INITIAL SITE CHARACTERIZATION (ISC) REPORT COVER SHEET & REPORT FORMAT

State Form 55439 (11-13)
329 IAC 9-5-5.1
Indiana Department of Environmental Management
Office of Land Quality

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Attention: Leaking UST Section
Office of Land Quality
100 N. Senate Ave., MC 67-18, IGCN 1101
Indianapolis, IN 46204-2251
Phone number: (317) 232-8900

INSTRUCTIONS:

1. *This form is intended to assist with the organization of the Initial Site Characterization (ISC). Additional information and guidance may be found in Rule 329 IAC 9-5-5.1and Chapter 3 of the Remediation Program Guide.*
2. *The Cover Sheet should be attached as cover to your FSI Report submittal. The directions for the required FSI format are not required to be attached.*
3. *Depending on the nature of the project some of the following sections or appendices may not be applicable. If this is the case do not leave the section blank, omit, or reorder the appendices. Instead enter "Not Applicable" or provide an explanation to indicate that the section does not apply or that information is not available, and why.*
4. *Please refer to the corresponding ISC Checklist State Form 55440 when completing the report submittal requirements.*

A. FACILITY INFORMATION

Facility Name: S & P Petroleum (Quick Shop)	Facility ID Number: 8924	
	LUST Incident Number(s): 2016-12510	
Street Address: 2801 Mt. Vernon Avenue		
City: Evansville	County: Vanderburgh	ZIP Code: 47712

B.SITE PRIORITY INFORMATION

1. a) Is Free Product present?	☐ YES	☑ NO
b) If Free Product is present at the Site, has recovery information been submitted per 329 IAC 9-5-4.2 in the required format in **Appendix D**?	☐ YES	☐ NO
2. Have vapors been identified in any confined spaces (basements, sewers, etc.)?	☐ YES	☑ NO
3. Has this investigation identified that a drinking water well has been affected as a result of this release? ** For definitions of Public Water Systems please see 327 IAC 8-2-1*	☐YES ☐ Community ☐ Non-Transient non-community ☐ Transient non-community ☐ Private	☑ NO
4. Are utilities impacted or likely to be acting as conduits for contaminant migration?	☐ YES	☑ NO
5. Is the site located within a Well Head Protection Area (WHPA)?	☐ YES	☑ NO

6. Estimated distance (ft) and direction from point of release to the nearest:

Private Well:	Municipal Well:	Surface Water:
3800 ft.	5,500 ft.	2050 ft.
☐ North	☐ North	☑ North
☐ South	☑ South	☐ South
☐ East	☐ East	☐ East
☑ West	☐ West	☐ West

7. What is the depth to ground water in feet?	2-4 ft.	
8. What is the predominant ground water flow direction?	South	
9. Has the investigation defined nature and extent of contamination in the soil: Vertically?	☑ YES	☐ NO
Horizontally?	☑ YES	☐ NO
10. Has the investigation defined nature and extent of contamination in the ground water: Vertically?	☑ YES	☐ NO
Horizontally?	☐ YES	☑ NO
11. If defined, does contamination in the ground water extend off-site?	☐ YES	☐ NO
12. If not defined, is contamination in the ground water likely to extend off-site?	☐ YES	☑ NO
13. Is there an existing Environmental Restrictive Covenant (ERC) on the property deed?	☐ YES	☑ NO

C. TANK(S) OWNER INFORMATION		
Owner Name: S & P Petroleum, Inc.		
Street Address: 2801 Mt. Vernon Avenue		
City: Evansville	State: IN	ZIP Code: 47712
Contact Person: Paul Singh	Telephone Number: 812-774-0946	
E-mail Address: aps4590@gmail.com		

D. REPORT PREPARER INFORMATION		
Company Name: IWM Consulting Group		
Street Address: 7428 Rockville Road		
City: Indianapolis	State: IN	ZIP Code: 46214
Contact Person: Brad Gentry	Telephone Number: 317-347-1111	
E-mail Address: bgentry@iwmconsult.com		

E. CERTIFICATION OF REPORT COMPLETION

I the undersigned environmental professional, hereby attest to the best of my knowledge and belief that the statements in this document and all attachments are true, accurate, and completed per 329 IAC 9-5-5.1 and 329 IAC 9-5-6. I certify that the attached report was submitted to the IDEM Leaking Underground Storage Tank Section on the date listed below.

Brad Gentry	Vice President	IWM Consulting Group	2/9/17
Name	**Position**	**Company**	**Date**

Licensed Professional Geologist #2165

Environmental Professional Credentials

Signature Bradley G

Please note, per 329 IAC 9, this document must be signed by a Registered Professional Engineer, a Licensed Professional Geologist, a Certified Hazardous Materials Manager, or a Professional Soil Scientist. All must be specifically certified in the State of Indiana.

Additional Signatures (as appropriate or desired)

_____ (signature and date)

_____ (printed name and date)

_____ (signature and date)

_____ (printed name and date)

INITIAL SITE CHARACTERIZATION (ISC) CHECKLIST

State Form 55440 (11-13)
329 IAC 9-5-5.1
Indiana Department of Environmental Management
Office of Land Quality

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Attention: Leaking UST Section
Office of Land Quality
100 N. Senate Ave., MC 67-18, IGCN 1101
Indianapolis, IN 46204-2251
Phone number: (317) 232-8900

INSTRUCTIONS:

1. *The purpose of this form is to create consistency and to ensure the submittal of all information required by 329 IAC 9-5-5.1 for an Initial Site Characterization (ISC). The ISC must be submitted within sixty (60) days of release reporting.*
2. *Completion of this form is mandatory and should be submitted along with your ISC Report Cover Sheet & Report Format state form 55439. You may complete this form electronically; however, a paper copy of this form must accompany the Initial Site Characterization report.*
3. *This form must be signed by a certified environmental professional as prescribed by 329 IAC 9.*

A. FACILITY INFORMATION

Facility Name: S & P Petroleum, Inc. (Quick Shop)	Facility ID Number: 8924	
	LUST Incident Number(s): 2016-12510	
Street Address: 2801 Mt. Vernon Avenue		
City: Evansville	County: Vanderburgh	ZIP Code: 47712

B. ISC REVIEW CHECKLIST

S : SUBMITTED	N : NOT SUBMITTED	I : INADEQUATE	A : ADEQUATE

The environmental professional should check the boxes to the left of the descriptions indicating if the required information was submitted with the ISC report. If the information was not submitted with the ISC, the environmental professional should provide a brief narrative in Section C indicating why the information is not included with the report. Failure to submit required information may result in a referral to IDEM Enforcement. IDEM Staff will complete the adequacy columns located to the right of the descriptions. Additionally, per 328 IAC 1-3-3 if required information outlined in 329 IAC 9-5-5.1 is not completed and submitted to the department within ninety (90) days of release reporting your ELTF Eligibility will be reduced.

S	N	1. BACKGROUND INFORMATION	I	A
☑	☐	**a.** Owner/Operator name & address	☐	☐
☑	☐	**b.** Past Owner/Operators	☐	☐
☑	☐	**c.** Facility name, address & phone number	☐	☐
☑	☐	**d.** Type of facility, past and present operations	☐	☐
☑	☐	**e.** Previous spill history	☐	☐
☑	☐	**f.** Site proximity to sensitive areas	☐	☐
☑	☐	**g.** Location & number of all water wells within 1 mile radius	☐	☐
☑	☐	**h.** Number and volume of Underground Storage Tanks (USTs)	☐	☐
☑	☐	**i.** UST(s) construction material and type of leak detection	☐	☐
☑	☐	**j.** UST(s) past and present contents	☐	☐
☑	☐	**k.** Copy of most recent Tank Tightness Test (TTT) results and inventory records for the prior calendar year	☐	☐
☑	☐	**l.** UST(s) age along with installation dates	☐	☐
☑	☐	**m.** Description of all site work completed to date	☐	☐
		2. RELEASE INCIDENT DESCRIPTION		
☑	☐	**a.** Date incident was reported to IDEM	☐	☐
☑	☐	**b.** Release incident number assigned by IDEM	☐	☐
☑	☐	**c.** Regulated substance(s) released	☐	☐
☑	☐	**d.** Quantity of regulated substance(s) lost	☐	☐
☑	☐	**e.** Affected area description	☐	☐
☑	☐	**f.** Health & environmental risks associated with the spill incident	☐	☐
		3. INITIAL RESPONSE TO RELEASE		
☑	☐	**a.** Detailed description of immediate actions taken to prevent any further release	☐	☐
☑	☐	**b.** Measures taken to prevent migration	☐	☐
☑	☐	**c.** Actions taken to mitigate fire and explosion hazards	☐	☐
☑	☐	**d.** Actions to investigate the presence of free product	☐	☐

S	N	4. FREE PRODUCT RECOVERY INFORMATION *(Fill out only if free product is present during investigation)*	I	A
☐	☐	**a.** Name of person(s) responsible for Free Product removal	☐	☐
☐	☐	**b.** Estimated quantity, type and thickness of Free Product	☐	☐
☐	☐	**c.** Description of recovery methods and/or system	☐	☐
☐	☐	**d.** Copies of all permits for handling, discharging, & disposal	☐	☐
☐	☐	**e.** Final disposition of free product	☐	☐
		5. REGIONAL INVESTIGATIONS		
☑	☐	**a.** Types of Bedrock	☐	☐
☑	☐	**b.** Soil series description (USDA, soil conservation service)	☐	☐
☑	☐	**c.** List of soil, geological, and hydrogeological references used	☐	☐
☑	☐	**d.** Maps with topographic base with 10 foot contour intervals	☐	☐
☑	☐	**e.** Location and depth of high capacity wells within 2 mile radius	☐	☐
☑	☐	**f.** Location and depth of smaller capacity wells within 1 mile radius	☐	☐
☑	☐	**g.** Site location, other facilities and land use within the immediate area (all four cardinal directions)	☐	☐
☑	☐	**h.** Nearest surface water bodies	☐	☐
		6. SITE SPECIFIC INVESTIGATIONS		
☑	☐	**a.** Minimum of three (3) soil borings (continuously screened and sampled per IDEM guidance)	☐	☐
☑	☐	**b.** Boring locations, accurately field surveyed with a horizontal closure of less than one (1) foot error	☐	☐
☑	☐	**c.** Site soil stratigraphy identification	☐	☐
☑	☐	**d.** Boring logs with USDA textures, gas/vapor readings, etc. using a like scale	☐	☐
☑	☐	**e.** Depth to ground water	☐	☐
☑	☐	**f.** Ground water flow direction(s) and gradients established by three (3) locations not in a straight line	☐	☐
☑	☐	**g.** Minimum of three ground water samples collected and analyzed	☐	☐
☑	☐	**h.** Monitoring wells surveyed to a temporary benchmark	☐	☐
☑	☐	**i.** Monitoring well construction records submitted with the same scale and per IDNR rules	☐	☐
☑	☐	**j.** Maps illustrating legends and compass directions	☐	☐
☑	☐	**k.** Maps with topographic base & appropriate contour intervals	☐	☐
☑	☐	**l.** Maps identifying above ground features (including buildings, roadways, man ways, pump islands, and property lines)	☐	☐
☑	☐	**m.** Maps identifying below ground features and preferential pathways	☐	☐
☑	☐	**n.** Maps with soil boring / monitoring well locations	☐	☐
☑	☐	**o.** Maps with sampling locations, depth and concentrations	☐	☐
☑	☐	**p.** Horizontal and vertical contaminant plume identification	☐	☐
☑	☐	**q.** Geologic cross sections illustrating the vertical plume extent	☐	☐
		7. SAMPLING METHODS AND DOCUMENTATION		
☑	☐	**a.** Proper test methods and detection limits used for COC's	☐	☐
☑	☐	**b.** Analytical data sheets provided	☐	☐
☑	☐	**c.** Chain of custody forms were completed, signed, and submitted	☐	☐
☑	☐	**d.** IDEMs Minimum Data Documentation Requirements (MDDRs) met	☐	☐
☑	☐	**e.** Full QA/QC (if submitting data for site characterization approval)	☐	☐
		8. RESULTS & CONCLUSIONS		
☑	☐	**a.** Discussion of results and conclusions of the data collected	☐	☐
☑	☐	**b.** Field and lab results presented in a tabular format	☐	☐
		9. RECOMMENDATIONS		
☑	☐	**a.** Further Site Investigation (FSI) work plan submitted with ISC	☐	☐

C. ENVIRONMENTAL PROFESSIONAL COMMENTS REGARDING INFORMATION NOT SUBMITTED AS REQUIRED

D. CERTIFICATION OF REPORT COMPLETION

I, the undersigned environmental professional, hereby attest to the best of my knowledge and belief that the statements in this document and all attachments are true, accurate, and completed per 329 IAC 9-5-5.1. I certify that the report was submitted to the IDEM Leaking Underground Storage Tank Section on the date listed below.

Name	Position	Company	Date
Brad Gentry	Vice President	IWM Consulting Group	2/9/17

Environmental Professional Credentials: Licensed Professional Geologist #2165

Bradley E 2/9/17 (signature and date)

Please note, per 329 IAC 9, this document must be signed by a Registered Professional Engineer, a Licensed Professional Geologist, a Certified Hazardous Materials Manager, or a Professional Soil Scientist. All must be specifically certified in the State of Indiana.

Additional Signatures (as appropriate or desired)

_____ (signature and date)

_____ (printed name and date)

E. THIS SECTION TO BE COMPLETED AND RETURNED TO THE OWNER BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT UPON

Your ISC Report (VFC Document #_____) is substantially complete and accurate	☐ YES	☐ NO
Your Site Characterization is:	☐ APPROVED	☐ DENIED
Your Further Site Investigation work plan is :	☐ APPROVED	☐ DENIED

_____ (IDEM PM signature and date)

_____ (IDEM PM printed name and date)

INITIAL SITE CHARACTERIZATION REPORT

S&P Petroleum
2801 Mt. Vernon Avenue
Evansville, Vanderburgh County, Indiana
IDEM LUST Incident No. 201612510
IDEM Facility ID No. 8924

PREPARED FOR:

Mr. Greg Waltz, Project Manager
Indiana Department of Environmental Management
Office of Land Quality- Leaking Underground Storage Tank Section
100 North Senate Avenue, Room 1101
Indianapolis, Indiana 46204-2251

PREPARED BY:

IWM Consulting Group, LLC
7428 Rockville Road
Indianapolis, Indiana

Project No. IN17002

February 9, 2017

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INITIAL SITE CHARACTERIZATION REPORT
S&P Petroleum
2801 Mt. Vernon Avenue
Evansville, Indiana
IDEM Incident No. 201612510
IDEM Facility ID No. 8924

Executive Summary

Industrial Waste Management Consulting Group, LLC (IWM Consulting) conducted Initial Site Characterization (ISC) activities at the S&P Petroleum Quick Shop facility located at 2801 Mt. Vernon Avenue in Evansville, Indiana (the site). The objective of the investigation was to determine if the presence of adsorbed and dissolved phase petroleum hydrocarbon contamination above Remediation Closure Guide (RCG) based Residential Screening Levels were present beyond dispenser islands #1/2 and #3/4, which was the location of the release reported for Incident #2016-12510. The environmental investigation was completed between January 16 and January 20, 2017.

The following is a brief summary of this ISC report. Please refer to the full text of this report in its entirety for a comprehensive understanding of the information presented in this Executive Summary, as specifics are not fully discussed in this section.

A release from a UST system at the site was reported to IDEM/Emergency Response by Mr. Troy Smith of IWM Consulting on behalf of S&P Petroleum, Inc. on December 13, 2016. Product line tightness testing was conducted at the site and dispensers #1/2 and #3/4 had failing tests on the mid-grade and premium lines, respectively. Release Incident #2016-12510 was assigned by IDEM.

As part of this site specific ISC, three (3) soil borings/wells (designated GP-1/MW-1 through GP-3/MW-3) were advanced on the subject site on January 16, 2017. The soil borings were converted to permanent 2-inch diameter monitoring wells. Groundwater samples were collected from the monitoring wells. Groundwater elevations were calculated and a potentiometric map was generated for the site. A shallow potentiometric surface contour of the groundwater table was exhibited, however no saturated or obvious water bearing litholgy was observed during soil boring installation. Based upon the existing monitoring well network, groundwater flow is to the south-southwest.

Soils identified at the site generally consisted of orangish brown, orangish red, and visually impacted olive green silty clays with little to no sand or gravel content from immediately beneath the surface to refusal or termination. Boring depths ranged from 20 to 28.5 feet below ground surface (BGS). Photoionization detector (PID) readings ranged from background to 320 parts per million vapor (ppmv).

It is the opinion of IWM Consulting that the horizontal and vertical extent of soil contamination underlying the site has been adequately delineated during the ISC. Groundwater analytical results indicate the presence of dissolved petroleum constituents in MW-3 which exceed two (2) RCG Residential Tap Groundwater Screening Levels (Res Tap GWSLs). It is currently assumed that groundwater contamination at least extends to an unknown point downgradient and potentially side-gradient to MW-3. Additional investigation will be required to fully define the extent of groundwater contamination.

This summary is provided for the reader's convenience and is only part of the complete report. Interpretation of this summary should be considered incomplete without reviewing the full ISC Report and associated appendices. The reader is directed to the report text for additional information regarding areas and conditions of potential environmental concern.

1.0 BACKGROUND INFORMATION

1.1 Owner/Operator

The facility known as the Quick Shop (the site) is located at 2801 Mt. Vernon Avenue, Evansville, Vanderburgh County, Indiana 47712. The facility is currently a retail gasoline service station and convenience store with one (1) canopy, four (4) dual dispensers, and three (3) underground storage tanks (USTs). The property owner of the site is Twin Brothers Investments, LLC located at 435 Virginia Avenue, Suite 707, Indianapolis, IN 46203. The current UST owner/operator is S&P Petroleum, Inc. located at the facility address. The on-site operator's phone number is (812) 442-8127.

1.2 Regional Location

The site is located within Perry Township, Vanderburgh County, Indiana. The site is located on the Evansville South, Indiana 7.5-minute series USGS Quadrangle Map within Township 6 South, Range 11 West, in the southeast quarter of Section 23. The latitude and longitude coordinates in decimal degrees are 37.983372 and -87.608403, respectively. The standard Universal Transverse Mercator coordinates are 446571.5 m Easting by 4204144.7 m Northing in Zone 16.

Based upon the USGS topographic map and Google Earth, the subject site is located at an elevation of approximately 406 feet above sea level and the topography of the immediate surrounding area is generally level, but gently slopes away from the site to the south and west.

A topographic map illustrating the location of the subject site is provided as **Figure 1** – Site Location Map. The surrounding areas and properties are provided as **Figure 2** – Site Vicinity Map.

1.3 Site Location

The subject site is located at 2801 Mt. Vernon Avenue, Evansville, Indiana, on the northwest corner of the intersection of Mt. Vernon Avenue and N. Sonntag Avenue. The site is bounded on the north and the west by the parking lots of retail stores and restaurants located in a northwesterly direction, on the east by N. Sonntag Avenue, and on the south by Mt. Vernon Avenue. Residential dwellings are located east of the site on the east side of N. Sonntag Avenue. A retail strip mall is located to the south, beyond Mt. Vernon Avenue. The overall area is mixed with commercial and residential properties.

The subject site is a retail gas station and convenience store. The current UST system consists of three (3) 8,000-gallon fiberglass USTs containing gasoline, fiberglass piping, and four (4) dispenser islands. Three (3) soil boring/monitoring wells (GP-1/MW-1 through GP-3/MW-3) were installed as part of the ISC activities and are displayed on **Figure 3** (Site Map).

Overhead electric lines are located on the both sides of the Mt. Vernon Avenue south of the site and both sides of N. Sonntag Avenue to the east. Buried gas and water is located in the right-of-way on the north side of Mt. Vernon Avenue. Underground site utilities consist of a buried water service line essentially bisecting the site running from Mt. Vernon Avenue north to the on-site building as well as sanitary sewer service of unknown location.

1.4 Land Use History

IWM Consulting reviewed readily available on-line historical aerials (1992 through 2016) and the site appears to have been utilized for commercial use as a service station since at least 1992. The layout also appears to be substantially similar to current conditions. UST closure notification forms indicate anecdotal evidence that the site may have been used as a gas station as early as 1980. IWM Consulting did not perform a search for county recorded deed restrictions, environmental notice limitations or chain of title documentation for the subject site.

Parcel identification information for the subject site is included in **Appendix A**.

1.5 Property Ownership History

Based upon the current property card and historical UST notification forms, the subject site is currently owned by Twin Brothers Investments, LLC and was purchased in July of 2014. Prior to ownership by Twin Brothers Investments, LLC, the site was owned by Thomas H. Weinzapfel from at least 1977 to 2014. Products known to have been used at the site include various grades of gasoline and kerosene. It is unknown if any other products were stored at the site historically. The following table details the property owner history:

Table 1 – Property Owner History

Past & Present Property Owners	Dates of Ownership	Property Use
Twin Brothers Investments, LLC	7/21/2014-Present	gas station/convenience store
Thomas H. Weinzapfel	5/12/1977-7/21/14	gas station/convenience store

1.6 Site UST History

According to IDEM Virtual File Cabinet (VFC) records (*VFC document 52495655*), at least one (1) historical UST system existed on the site and consisted of one (1) 8,000-gallon steel gasoline UST, one (1) 6,000-gallon steel gasoline UST, two (2) 4, 000 gallon steel gasoline USTs and one (1) 2,000-gallon steel kerosene UST. The gasoline tanks' installation date is believed to be circa 1980 with the kerosene tank being installed more recently circa 1991. These historical USTs were removed in May of 1992 and the current UST system was installed.

The IDEM VFC records indicate that site inspections were performed in 1998, 2005, 2010, 2013, 2014, and 2016. All readily available UST notification forms, IDEM compliance inspections, tank and line tightness testing results, and inventory records for the prior calendar year have been included in **Appendix B**.

According to the IDEM VFC records, the existing UST system consists of three (3) 8,000-gallon fiberglass gasoline USTs which were reportedly installed in May of 1992 after the removal of the historical UST system.

Table 2 – Site UST History

Tank #	Installation Dates	Capacity (gallons)	Product	Construction Material	Tank Status	Method of Leak Detection	Date Removed
1	Circa 1980	4,000	Gasoline	Steel	Removed	Unknown	May 1992
2	Circa 1980	4,000	Gasoline	Steel	Removed	Unknown	May 1992
3	Circa 1980	8,000	Gasoline	Steel	Removed	Unknown	May 1992
4	Circa 1980	6,000	Gasoline	Steel	Removed	Unknown	May 1992
5	Circa 1991	2,000	Kerosene	Steel	Removed	Unknown	May 1992
6	May 1992	8,000	Gasoline	Fiberglass	In Use	Automatic Tank Gauging	N/A
7	May 1992	8,000	Gasoline	Fiberglass	In Use	Automatic Tank Gauging	N/A
8	May 1992	8,000	Gasoline	Fiberglass	In Use	Automatic Tank Gauging	N/A

1.7 Previous Environmental Investigations & Spill History

According to IDEM VFC records (*VFC documents 22571813* and *22571775*), the historical UST system was removed in May 1992. Closure sampling revealed evidence of a release. The UST pit was over excavated to remove impacted soils and approximately 190 cubic yards of impacted soil was placed in a treatment cell/landfarm on-site. Subsequently three (3) confirmation soil samples were collected from the treatment cell in July 1993. Results showed petroleum hydrocarbon levels to be below 20 mg/kg. No incident number was assigned nor was a No Further Action (NFA) Letter issued regarding the closure. No records of petroleum spills, other releases, investigations or incidents have been recorded or appear in the IDEM VFC other than the aforementioned closure activities and the current incident being investigated.

2.0 RELEASE INCIDENT DESCRIPTION

A release from a UST system at the site was reported to IDEM/Emergency Response by Mr. Troy Smith of IWM Consulting Group on behalf of S&P Petroleum, Inc. on December 13, 2016. Product line tightness testing was conducted at the site and dispensers #1/2 and #3/4 had failing tests on the mid-grade and premium lines respectively. The specific point of failure was found to be at the subgrade juncture of the dispenser flex connector and the fiberglass piping from the USTs. Release incident #2016-12510 was assigned by IDEM.

3.0 INITIAL RESPONSE TO RELEASE

Upon learning of failed line tightness testing, S&P Petroleum discontinued dispensing mid-grade and premium fuel until repairs were completed. Repairs were completed prior to additional line tightness testing which indicated passing results. These results, along with copies of available UST notification forms and inspections, are provided in **Appendix B.** The *Initial Incident Repor*t dated December 13, 2016 and the *Initial Site Characterization Request Letter* from IDEM dated December 14, 2016 are included in **Appendix D**. In response to the ISC Request Letter issued, IWM Consulting mobilized to the site to perform ISC investigation activities.

4.0 FREE PRODUCT RECOVERY INFORMATION

Free product was not identified by IWM personnel while conducting the ISC activities.

5.0 REGIONAL INVESTIGATIONS

5.1 Regional Geologic & Hydrologic Information

5.1.1 Surficial and Unconsolidated Geology

According to the United States Department of Agriculture Web Soil Survey website, the site is located on the Alford Soil Series and is also a borrow source area where soil has been removed typically as a source of fill during road construction. The Alford series consists of deep, well drained, gently sloping to strongly sloping soils on uplands. These soils formed in more than 5 feet of loess. Available water capacity is high in Alford Soils and permeability is moderate. Mean annual precipitation is about 41 to 48 inches and mean annual air temperature is about 52 to 59 degrees Fahrenheit. The soils in the Alford Series are silt loams. The specific soil type on the subject property is described as follows:

Alford Silt Loam (AlB2) – This Soil Unit is on narrow ridgetops. Included with this soil in mapping are small areas of moderately well drained Muren soils that have grey mottles. Runoff is considered medium on this soil. Depth to water table is typically greater than 80 inches. A typical profile horizon consists of silt loam (0 to 6 inches Ap), silt clay loam (6 to 26 inches Bt1), silt loam (26 to 73 inches Bt2), and silt loam (73 to 79 inches 2BC).

The *Quaternary Geologic Map of Indiana* (Gray, 1989) indicates that the subject site is within the Ohio River Basin, nearly all of which is covered by unconsolidated deposits. The unconsolidated sediments overlying the bedrock in unglaciated regions consist mainly of terrace remnants of lowland silt complexes with the presence of large area of loess in upland areas. The *Map of Indiana Showing Thickness of Unconsolidated Deposits* (Gray 1983) indicates that the typical thickness of unconsolidated sediments underlying the site (i.e., depth to bedrock) is less than 50 feet.

5.1.2 Bedrock Geology

The *Bedrock Geologic Map of Indiana* (Gray et. al., 1987) shows bedrock beneath the site is the McLeansboro Group of the Pennsylvanian Age. The McLeansboro Group consists primarily of complexly interbedded shales and sandstone (>90%) with minor amounts of siltstone, limestone, clay, and coal. The depth to bedrock in the vicinity of the site is less than 50 feet.

5.1.3 Hydrogeology

The nearest surface water drainage way in the area is the Ohio River. The river is located approximately 4,350 feet south-southeast of the site and flows in a south-southwesterly direction at its nearest point to the site. Groundwater flow direction can often be estimated from the local topography and/or drainage patterns. Based on topographic relations, regional groundwater flow is expected to be in a southward direction, toward the Ohio River.

As part of the site specific ISC, three (3) soil borings/monitoring wells were advanced at the subject site on January 16, 2017. The soil borings were advanced to refusal (~28 to 28.5 feet BGS) in two (2) of the soil borings which is believed to be near shale bedrock. All of the soil borings were converted to 2-inch diameter monitoring wells (MW-1 through MW-3) and surveyed for top of casing (TOC) elevation control to assist in determining groundwater flow direction. During the January 20, 2016 groundwater sampling and gauging event, groundwater was detected at depths ranging from 1.98 feet below TOC in MW-2 to 3.75 feet below TOC in MW-3. Groundwater elevations were calculated and a potentiometric map (**Figure 7**) was generated for the site. The potentiometric map generated from the existing monitoring well network infers that groundwater flow is to the south-southwest.

5.1.4 High & Low Capacity Water Wells

Indiana Department of Natural Resources (IDNR) Division of Water (DOW) records indicate that there is one (1) high capacity well (>70 gallons per minute (gpm)) located within a 2-mile radius of the site. It is currently owned by Irving Materials, Inc. and is an industrial use well located at 1816 W. Lloyd Expressway, approximately 5,500 feet southeast of the site. It is an 8-inch diameter well installed in 1991 to a depth of 75 feet BGS. It is considered a significant water withdrawal facility by the IDNR with a current capacity of 275 gpm. Based upon the IDEM Wellhead Protection Area Proximity Determination web service, the site is not located within a wellhead protection area.

IDNR-DOW records indicate that there are nine (9) located low capacity water wells (<70 gpm) within a 1-mile radius of the site. The wells are completed to depths ranging from 35 to 250 feet BGS. Six (6) of the wells are completed into bedrock, two (2) are completed into unconsolidated material and one (1) was blank drilled. As depicted on the well location map, the closest low capacity domestic use well appears to be located approximately 985 feet northeast of the site at a depth of 45 feet BGS. However, upon review of the well record (Ref# 272241) it appears that this well has been incorrectly located on the IDNR map. The record states that the well is located on Old Henderson Road along the Ohio River, the closest point of which is in excess of 1 mile from the site. The closest domestic use well is approximately 3,800 feet west of the site. It is a 6.25-inch diameter well that was installed in 1959 and is completed to a depth of 68 feet. Municipal water is utilized at the site and the area immediately surrounding the site.

The water well records and maps depicting the locations of the high capacity well within 2 miles of the site and the low capacity wells within 1 mile of the site are included in **Appendix E**.

6.0 SITE SPECIFIC INVESTIGATION

6.1 Assessment of Potentially Susceptible Areas

Sensitive receptors (e.g., hospitals, schools, daycare facilities, elderly housing, etc.) are areas where the occupants may be more susceptible to the adverse effects of exposure to contaminants

and where extra care should be taken into consideration when dealing with contaminants. There are no sensitive receptors that occupy the subject site or that are immediately adjacent to the subject site. Westside Catholic Schools Sacred Heart Campus is located 880 feet southeast of the site. Mater Dei Catholic School is located 2,800 feet to northwest. The site is not located within an area considered geologically susceptible (i.e. karst features). On-line sources were also reviewed for potential sensitive areas in the general vicinity of the site. The nearest surface water topographic feature to the site is an unnamed pond located approximately 2,050 feet to the northeast on a golf course in an apparent topographically down-gradient position relative to the site. The subject site is not located within a flood plain.

6.2 Potential Petroleum Contaminants

The potential constituents of concern (COCs) and analytical methods utilized in this ISC are as follows:

Table 3 – Potential Petroleum Contaminants

Potential Petroleum Contaminants (Gasoline and Diesel)	Analytical Method Used	
	Soil	Groundwater
VOCs	SW-846 Method 8260	SW-846 Method 8260
Lead	SW-846 Method 6010	SW-846 Method 6010

6.3 Sampling Objectives and Rationale

Soil borings and monitoring wells were installed in an effort to determine if adsorbed and dissolved phase petroleum hydrocarbon contamination above RCG Residential Screening Levels was present beyond the dispensers #1/2 and #3/4. Three (3) soil borings were advanced surrounding the two (2) suspect dispenser islands on January 16, 2017. Subsurface soil and groundwater samples were collected and analyzed for gasoline COCs, specifically volatile organic compounds (VOCs) (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) and lead. The soil borings were subsequently converted into 2-inch diameter permanent monitoring wells. Groundwater samples were collected from the monitoring wells on January 20, 2017 and analyzed for the same COCs.

6.4 Soil Sampling Event

EnviroDynamics, LLC, under the supervision of IWM Consulting personnel, installed three (3) soil borings/monitoring wells (GP-1 through GP-3) at the site on January 16, 2017. Soil borings GP-2 and GP-3 were completed to refusal approximately 28 to 28.5 feet BGS. Soil boring GP-1 was completed to a depth of 20 feet BGS. The borings were initially advanced using a truck mounted Geoprobe® 6600 unit equipped with a 2.25-inch outside diameter dual-tube sampling rods. The sub-surface soil was continuosly sampled utilizing dual-tube technology equipped with dedicated disposable acetate liners. IWM Consulting personnel removed the soil from the

liners with a 5-gram T-handle while wearing disposable nitrile gloves and placed a portion of the soil sample into laboratory provided sample containers which were sealed with a teflon lined lid. The soil sample was then labeled and placed on ice.

Volatile organic hydrocarbon readings were collected from the soil within the acetate liner using a PID equipped with a 10.6 eV PID bulb that was field calibrated utilizing a 100 ppmv isobutylene gas mixture. PID readings ranged from background to 320 ppmv. The highest readings were observed in GP-3 between 2 and 4 feet BGS. Two (2) soil samples were collected from each soil boring and included the interval displaying the highest PID reading and from a deeper depth within the boring for vertical delineation. No saturated or obvious groundwater bearing lithology was observed during boring installation. The volatile soil samples were obtained in general accordance with EPA collection Method 5035A using laboratory provided, dedicated T-handles to obtain three (3) 5-gram soil sample plugs from each sample interval. Each soil sample plug was then placed inside laboratory provided containers and immediately placed on ice. Percent moisture and total lead samples were collected using 4-ounce soil jars and were immediately place on ice as well. The soil samples were delivered to Pace Analytical Services, LLC (Pace) and analyzed for VOCs (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) by SW-846 Method 8260, total lead by SW-846 Method 6010, and percent moisture. For QA/QC purposes a field duplicate sample (FD-1) was obtained from location GP-3 (2-4') and a matrix spike and matrix spike duplicate (MS/MSD) sample was obtained from location GP-2 (12-14'). A laboratory trip blank also accompanied the samples in the cooler.

Soils identified at the site generally consisted of olive green silty clays from immediately beneath the surface to approximately 5.75 to 7.5 feet BGS and orangish brown and orangish red silty clays with little to no sand or gravel content from thereafter to refusal or termination. No saturated or obvious groundwater bearing lithology was observed during boring installation. Boring depths ranged from 20 to 28.5 feet BGS.

Soil boring logs, including field screen readings, are included in **Appendix F**. Soil boring and sample locations are depicted on **Figure 3**. A geologic cross-section location map is presented as **Figure 5a**. A geologic cross-section is presented as **Figure 5b.**

6.5 Monitoring Well Installation

Following soil sampling, the soil borings were converted into pre-packed 2-inch diameter monitoring wells. The monitoring wells were installed using a truck mounted Geoprobe® 6600 unit equipped with 3.75-inch inside diameter direct push rods and were completed to depths ranging between 14.12 and 15.25 feet BGS. The monitoring wells are constructed with varying lengths of 2-inch diameter schedule 40 PVC casing and ten (10) feet of 0.010-inch slot schedule 40 pre-packed PVC screen. Additional sand was poured around the pre-pack screen to approximately 1 foot above the pre-packed screen. Bentonite chips were poured in the remaining annular space around the well casing and hydrated. Square cut concrete pads were constructed for placement of the flush mount protective cover.

6.6 Groundwater Sampling Event

IWM Consulting personnel mobilized to the site on January 20, 2017 to perform a groundwater gauging and sampling event. Groundwater samples were collected from the three (3) newly installed monitoring wells (MW-1 through MW-3) in order to evaluate the occurrence of dissolved phase petroleum hydrocarbons. Prior to sample collection, each monitoring well was purged of approximately one well volume. The groundwater within the wells did not recover and purging activities were halted when 0.5 feet of standing water remained within the well casing. All groundwater samples were collected by IWM Consulting personnel wearing dedicated, disposable nitrile gloves and using disposable polyethylene bailers and placed into pre-labeled preserved 40-mL vials. The groundwater samples were then immediately placed on ice. The groundwater samples were delivered under chain-of-custody controls to Pace and analyzed for VOCs (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) by SW-846 Method 8260 and total lead by SW-846 Method 6010. One (1) trip blank was submitted for analysis as well as one (1) duplicate sample (FD-1) from monitoring well MW-3. One (1) MS/MSD sample was obtained from monitoring well MW-2. All purge water was containerized in a properly labeled steel 55-gallon drum. The drum is temporarily stored on-site pending offsite disposal.

Well construction diagrams are included in **Appendix F**. Groundwater sample locations are depicted on **Figure 8**. Groundwater measurements are summarized on **Table 5**.

6.7 Groundwater Elevation Calculation

IWM Consulting personnel mobilized to the site on January 20, 2017 to perform a groundwater gauging and sampling event. All groundwater measurements were recorded using an electronic water level indicator which alerts the user with a continuous tone when the probe makes contact with the groundwater table. The distance between the TOC riser pipe elevation and the water table was read from the incremented probe line. The TOC risers were referenced to a common benchmark (MW-2 top of casing) using transit-stadia surveying techniques. The monitoring well horizontal locations were located and measured in the field with reference to the existing canopy. All measurements were recorded to the nearest 0.01 foot and are included on **Table 5** in the Tables section of this report. During the January 2017 gauging event, groundwater was detected at depths ranging from 1.98 feet below TOC in monitoring well MW-2 to 3.75 feet below TOC in monitoring well MW-3. Groundwater elevations were calculated and a potentiometric map (**Figure 7**) was generated for the site. A shallow potentiometric surface of the groundwater table was exhibited in the monitoring wells. The potentiometric map based upon the existing monitoring well network infers groundwater flow is to the south-southwest.

7.0 SAMPLING METHODS AND DOCUMENTATION

All of the laboratory analytical reports and accompanying chains-of-custody forms etc. for the ISC sampling activities conducted in January 2017 are included in **Appendix G**. Level IV QA/QC data is included electronically with this report.

8.0 RESULTS AND CONCLUSIONS

8.1 Soil Analytical Results

Soil samples were submitted on January 17, 2016 for laboratory analysis. A review of **Table 4** shows the following: all soil samples collected from the soil borings and submitted for laboratory analysis had concentrations of COCs below the laboratory reporting limits or below the most stringent RCG Screening Level (i.e., the RCG Residential Soil Migration to Groundwater Screening Levels (RCG Res MTGWSLs)).

The duplicate sample (FD-1) submitted for laboratory analysis showed substantially similar results to its parent sample MW-3 (2-4') for all COCs. Since the majority of the COCs had similar concentrations, IWM Consulting deems that this data is acceptable for this ISC. The trip blank submitted for laboratory analysis was below laboratory reporting limits for all COCs.

Soil analytical results are summarized on **Table 4** and displayed by location on **Figure 4**. Since all detected concentrations of COCs were below the laboratory reporting limits or below the most stringent RCG Screening Levels, a figure depicting the inferred lateral extent of adsorbed VOCs in soil is not included. A copy of the laboratory analytical report is included in **Appendix G**.

8.2 Groundwater Analytical Results

Groundwater samples from the permanent monitoring wells were submitted for laboratory analysis of VOCs (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) utilizing SW-846 Method 8260 and total lead by SW-846 Method 6010.

A review of **Table 5** shows the following: concentrations of total lead were detected above its RCG Res Tap GWSL in all of the groundwater samples. However, it is believed that the detected elevated total lead concentrations were caused by the observed natural turbidity present in the samples. The groundwater sample submitted from MW-3 had concentrations of two (2) VOC constituents exceeding the RCG Res Tap GWSL. Benzene was detected at 5.3 ug/L exceeding its screening level of 5.0 ug/L and naphthalene was detected at 5.0 ug/L exceeding its screening level of 1.7 ug/L. The groundwater samples collected from MW-1 and MW-2 submitted for laboratory analysis had concentrations of all VOCs below the laboratory reporting limits or below the most stringent RCG Screening Level (i.e., the RCG Res Tap GWSLs).

The groundwater duplicate sample (FD-1) submitted for laboratory analysis reported results substantially similar to its parent sample MW-3. One (1) trip blank submitted for laboratory analysis was below laboratory reporting limits for all COCs.

The groundwater analytical results are summarized on **Table 5** and displayed by location on **Figure 8**. The inferred lateral extent of dissolved naphthalene in groundwater is depicted on **Figure 9**. A copy of the laboratory analytical report is included in **Appendix G**.

8.3 Potential Exposure Pathways

Potential exposure pathways consist of vapor intrusion (inhalation), groundwater ingestion and direct contact (adsorption).

8.3.1 Vapor Intrusion (Inhalation)

Groundwater was encountered during monitoring well sampling at depths ranging between 2 and 4 feet BGS and the inferred groundwater flow direction is to the south-southwest. Given that the VOC concentrations detected in all groundwater samples was below their respective RCG Residential Vapor Exposure Groundwater Screening Levels (Res VE GWSLs), vapor intrusion of the surrounding residential and commericial buildings is not considered a potentially viable exposure pathway. Additional investigation and delineation activities are planned and will provide more evidence in order to determine if this potential exposure pathway is viable.

8.3.2 Groundwater Ingestion

Buried water utilities enter the site at a depth ranging from 3 to 4 feet BGS, which is below the observed potentiometric groundwater table (approximately 2 to 4 feet BGS). Groundwater migration via utility corridors however is not likely since this elevation is a potentiometric elevation and there is a limited amount of shallow groundwater in the subsurface. In addition, the site and adjacent properties utilize municipal water; therefore, groundwater ingestion is not a complete exposure pathway.

8.3.3 Direct Contact (Adsorption)

All of the soil samples obtained at the site have concentrations less than the RCG Residential Direct Contact Screening Level (RDCSL). Therefore an unacceptable risk via the soil direct contact exposure pathway is not viable.

8.4 Conclusions

It is the opinion of IWM Consulting that the horizontal and vertical extent of the soil contamination caused from any possible release at dispensers #1/2 and #3/4 has been adequately defined during the ISC. Groundwater analytical results indicate the presence of dissolved petroleum constituents in MW-3 which exceed the RCG Res Tap GWSLs for benzene and

naphthalene. Concentrations of total lead were detected above the RCG Res Tap GWSLs in all of the groundwater samples. However, it is believed that the detected elevated total lead concentrations were caused by the observed natural turbidity present in the samples. It is currently assumed that groundwater contamination exceeding the RCG Res Tap GWSLs at least extends to an unknown point downgradient and potentially side-gradient to MW-3. Additional investigation will be required to fully define and delineate the extent of groundwater contamination exceeding the RCG Res Tap GWSLs.

9.0 RECOMMENDATIONS

Based upon the results observed during the ISC activities, IWM Consulting considers the delineation of contaminants in groundwater to be incomplete. Further on-site investigation is warranted at this time. A Further Site Investigation (FSI) work plan has been included in **Appendix I**.

10.0 EVALUATION OF POTENTIAL REMEDIES

10.1 Summary of Remedies Given Preliminary Consideration

No remedies are planned or warranted until delineation is complete.

10.2 Proposed Pilot Tests

It is not anticipated that a pilot study is warranted for the remediation of this site at this time.

11.0 REFERENCES

Gray, Henry H., Curtis H. Ault, and Stanley J. Keller, *Bedrock Geologic Map of Indiana*, Miscellaneous Map 48, 1987.

Gray, Henry H., *Quaternary Geologic Map of Indiana*, Miscellaneous Map 49, 1989.

Gray, Henry H., *Map of Indiana Showing Thickness of Unconsolidated Deposits*, Miscellaneous Map 38, 1983.

Sturm, Ralph H., and others, 1978, *Soil Survey of Morgan County, Indiana*, US Department of Agriculture – Soil Conservation Service.

Remediation Closure Guide, Office of Land Quality, Indiana Department of Environmental Management.

TABLES

Table 4
Soil Analytical Results
S & P Petroleum, Inc. dba Quick Shop
2801 Mt. Vernon Avenue
Evansville , IN

Sample ID	**GP-1 4-6'**	**GP-1 10-12'**	**GP-2 2-4'**	**GP-2 12-14'**	**GP-3 2-4'**	**FD-1 (GP-3 2-4')**	**GP-3 14-16'**	RCG Residential Soil Migration to Groundwater Screening Levels	**RCG Residential Soil Direct Contact Screening Levels**	**RCG Commercial / Industrial Soil Direct Contact Screening Levels**
Pace Lab ID	**50163047001**	**50163047002**	**50163047003**	**50163047004**	**50163047005**	**50163047007**	**50163047006**			
Sample Date	1/16/17	1/16/17	1/16/17	1/16/17	1/16/17	1/16/17	1/16/17			
Sample Depth (Feet BGS)	4-6	10-12	2-4	12-14	2-4	2-4	14-16			
PID (ppmv)	0.3	0.0	43.1	0.0	320.4	320.4	0.0			
VOCs										
Benzene	0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	0.051	**17**	**51**
n-Butylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	1.0	1.0	<0.0048	64	**110**	**110**
sec-Butylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	120	**150**	**150**
Ethylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	16	**81**	**250**
n-Hexane	<0.0054	<0.0047	<0.0047	<0.0048	6.6	6.1	<0.0048	210	**140**	**140**
Isopropylbenzene (cumene)	<0.0054	<0.0047	<0.0047	<0.0048	0.57	0.53	<0.0048	15	**270**	**270**
p-Isopropyltoluene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	NE	**NE**	**NE**
Methyl-tert-butyl ether	<0.0054	0.016	<0.0047	<0.0048	<0.49	<0.51	<0.0048	0.63	**660**	**2100**
n-Propylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	2.6	2.5	<0.0048	25	**260**	**260**
Toluene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	14	**820**	**820**
1,2,4-Trimethylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	0.44	**81**	**220**
1,3,5-Trimethylbenzene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	3.4	**180**	**180**
Xylenes, Total	<0.011	<0.0095	<0.0094	<0.0096	<0.49	<1.0	<0.0095	200	**260**	**260**
1-Methylnaphthalene	<0.011	<0.0095	<0.0094	<0.0096	<0.0098	<1.0	<0.0095	1.2	**250**	**390**
2-Methylnaphthalene	<0.011	<0.0095	<0.0094	<0.0096	2.1	1.9	<0.0095	3.7	**340**	**3,000**
Naphthalene	<0.0054	<0.0047	<0.0047	<0.0048	<0.49	<0.51	<0.0048	0.11	**53**	**170**
Metals										
Lead	7.8	11.5	5.6	11.5	8.7	7.9	7.0	270	**400**	**800**

Notes:
All samples collected by IWM Consulting personnel and analyzed at Pace Laboratories located in Indianapolis, Indiana.
All results in mg/kg.
VOCs analyzed using SW846 Method 8260
Lead analyzed using SW846 Method 6010
Unlisted compounds below laboratory reporting limits for all samples.
Underlined concentrations exceed RCG Residential Soil Migration to Groundwater Screening Levels.
Bolded concentrations exceed RCG Residential Soil Direct Contact Screening Levels.
Shaded concentrations exceed RCG Commercial/Industrial Soil Direct Contact Screening Levels.

Table 5
Groundwater Analytical Results
S & P Petroleum, Inc. dba Quick Shop
2801 Mt. Vernon Avenue
Evansville , IN

Sample ID	**MW-1**	**MW-2**	**MW-3**	**FD-1 (MW-3)**	RCG Residential Tap Groundwater Screening Levels	**RCG Residential Vapor Exposure Groundwater Screening Levels**	**RCG Commercial / Industrial Vapor Exposure Groundwater Screening Levels**
Pace Lab ID	50163373001	50163373002	50163373003	50163373004			
Sample Date	1/20/2017	1/20/2017	1/20/2017	1/20/2017			
Depth to Water	2.79	1.98	3.75	-			
Top of Casing	99.49	100.00	99.03	-			
Groundwater Elevation	96.70	98.02	95.28	-			
Screened Elevation	95.86-85.86	96.29-86.29	94.25-84.25	-			
VOCs							
Benzene	<5.0	<5.0	5.3	5.1	5	**28**	**120**
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	1,000	**NE**	**NE**
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	2,000	**NE**	**NE**
Ethylbenzene	<5.0	<5.0	13.8	13.6	700	**NE**	**NE**
n-Hexane	<5.0	<5.0	<5.0	<5.0	1500	**NE**	**NE**
Isopropylbenzene (Cumene)	<5.0	<5.0	7.2	7.4	450	**NE**	**NE**
p-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	NE	**NE**	**NE**
Methyl-tert-butyl ether	9.3	<4.0	5.1	5.8	140	**NE**	**NE**
n-Propylbenzene	<5.0	<5.0	15.1	16.4	660	**NE**	**NE**
Toluene	<5.0	<5.0	<5.0	<5.0	1,000	**NE**	**NE**
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	15	**NE**	**NE**
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	120	**NE**	**NE**
Xylene, Total	<10.0	<10.0	<10.0	<10.0	10,000	**NE**	**NE**
1-Methylnaphthalene	<5.0	<5.0	9.0	8.7	11	**NE**	**NE**
2-Methylnaphthalene	<10.0	<10.0	<10.0	<10.0	36	**NE**	**NE**
Naphthalene	<1.7	<1.7	5.0	4.0	1.7	**110**	**460**
Metals							
Lead	87.20	68.4	126	44.6	15	**NE**	**NE**

Notes:
All samples collected by IWM Consulting personnel and analyzed at Pace Laboratories located in Indianapolis, Indiana.
All results in ug/L.
VOCs analyzed using SW846 Method 8260
Lead analyzed by SW846 Method 6010
Unlisted compounds below laboratory reporting limits for all samples.
Underlined concentrations exceed RCG Residential Tap to Groundwater Screening Levels.
Bolded concentrations exceed RCG Residential Vapor Exposure Groundwater Screening Levels.
Shaded concentrations exceed RCG Commercial/Industrial Vapor Exposure Groundwater Screening Levels.

NE: Not established.
N/A: Not applicable.

FIGURES

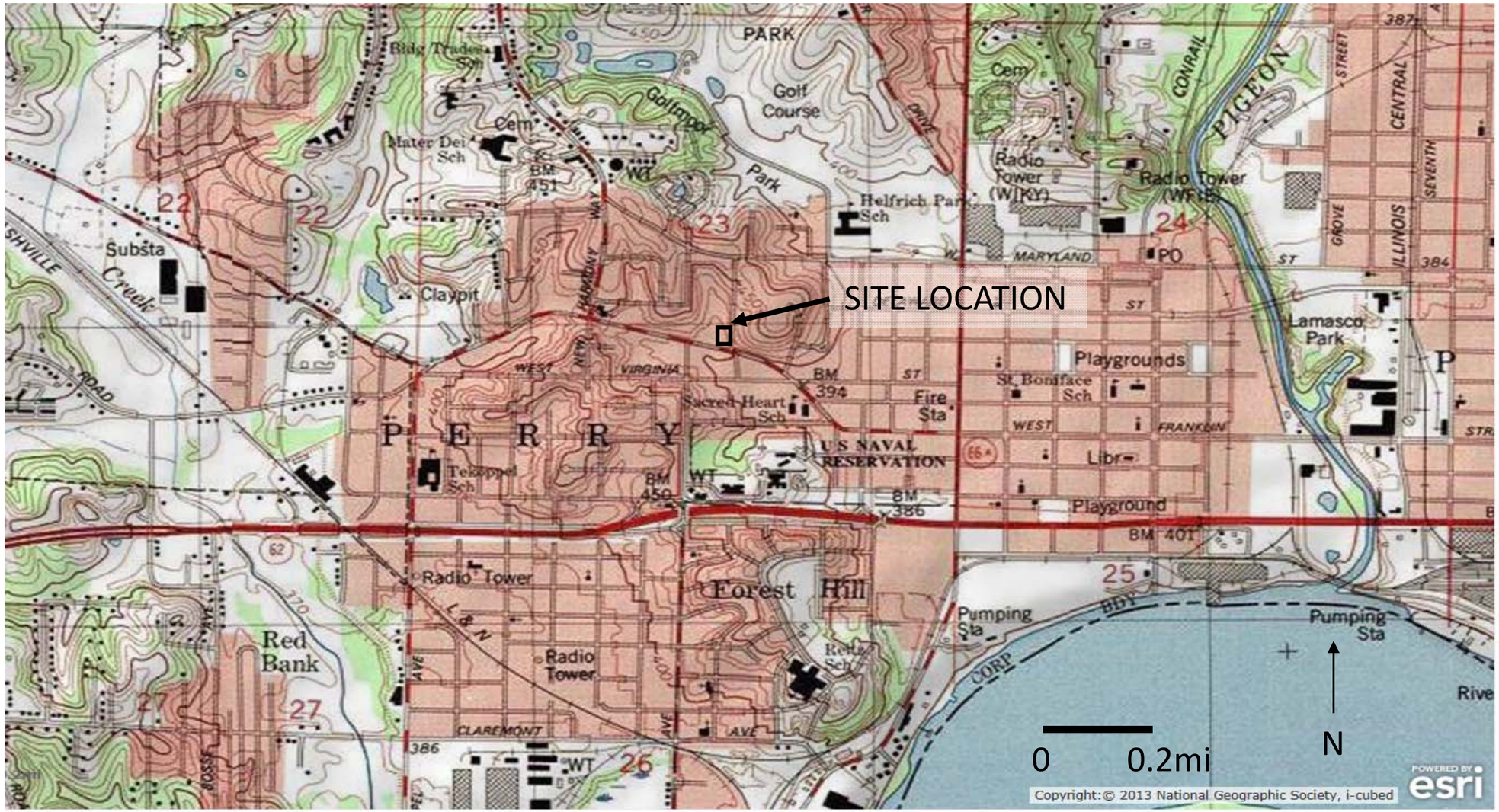


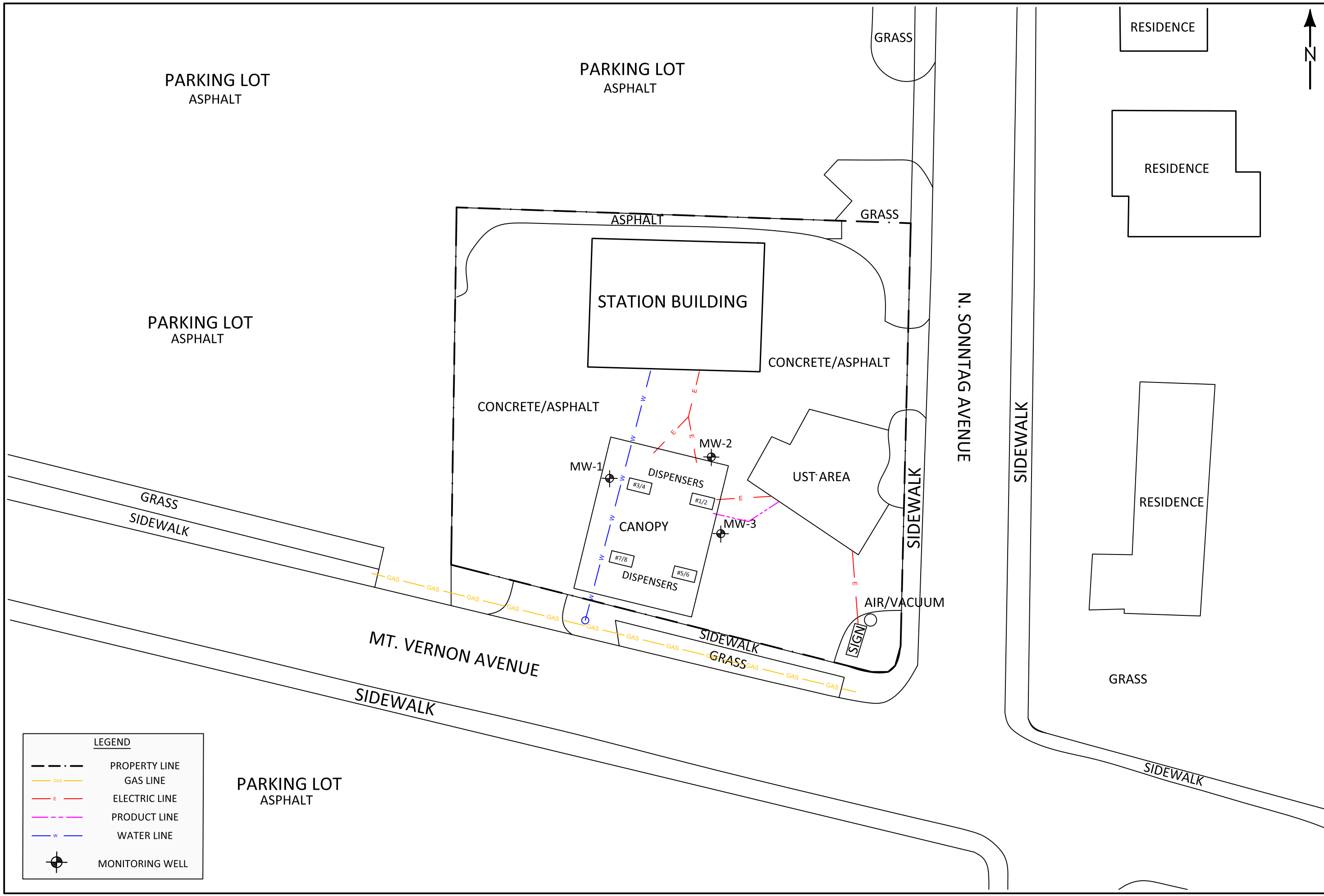
FIGURE 1
QUICK SHOP SERVICE STATION
TOPOGRAPHIC MAP
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA 47712

DRAWN BY: L. Lohnsorfer
DATE: 02/1/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

FIGURE 2
SITE VICINITY MAP

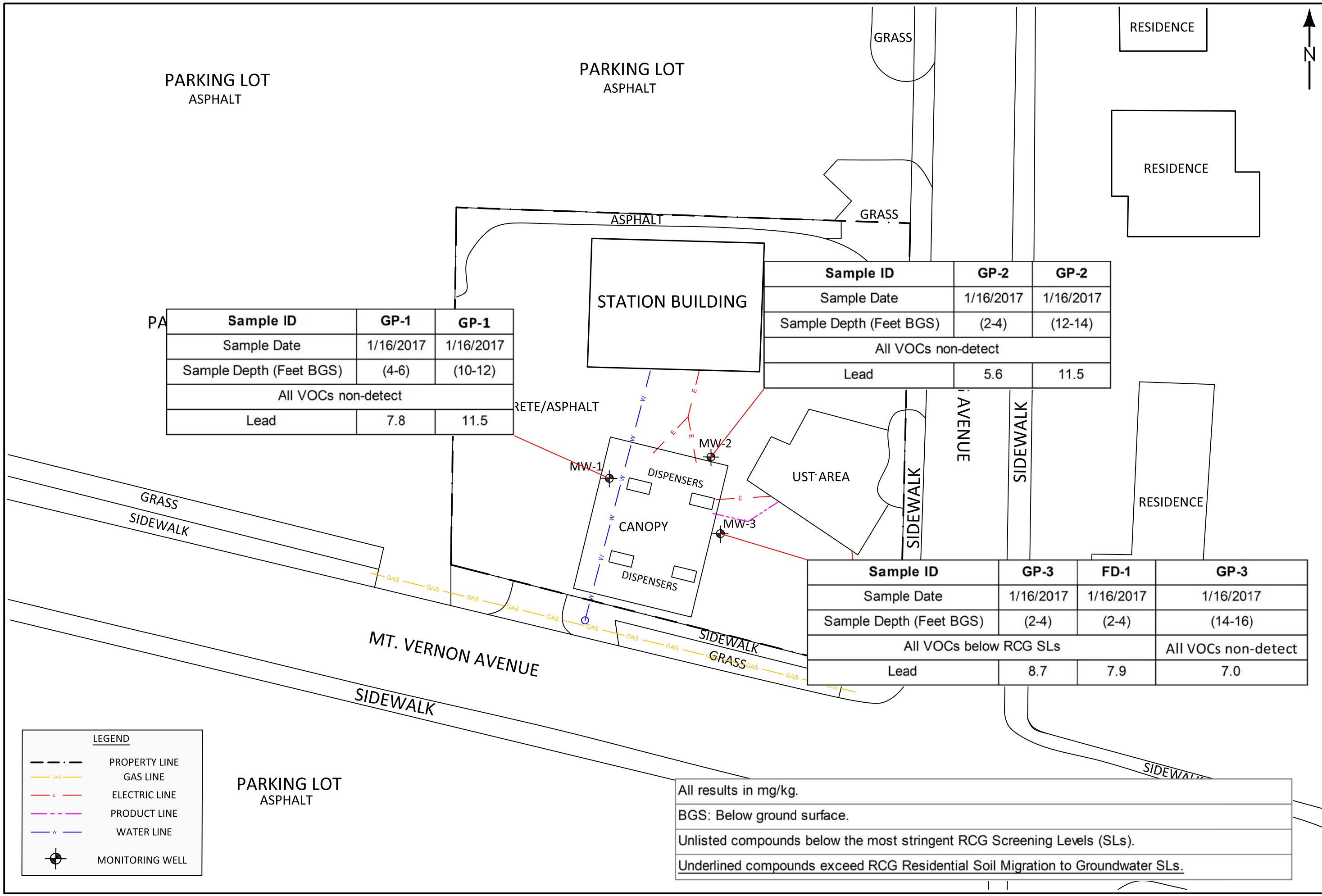


IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA 47712

DRAWN BY: L. Lohnstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

FIGURE 3
SITE MAP



Sample ID	GP-1	GP-1
Sample Date	1/16/2017	1/16/2017
Sample Depth (Feet BGS)	(4-6)	(10-12)
All VOCs non-detect		
Lead	7.8	11.5

Sample ID	GP-2	GP-2
Sample Date	1/16/2017	1/16/2017
Sample Depth (Feet BGS)	(2-4)	(12-14)
All VOCs non-detect		
Lead	5.6	11.5

Sample ID	GP-3	FD-1	GP-3
Sample Date	1/16/2017	1/16/2017	1/16/2017
Sample Depth (Feet BGS)	(2-4)	(2-4)	(14-16)
All VOCs below RCG SLs			All VOCs non-detect
Lead	8.7	7.9	7.0

All results in mg/kg.

BGS: Below ground surface.

Unlisted compounds below the most stringent RCG Screening Levels (SLs).

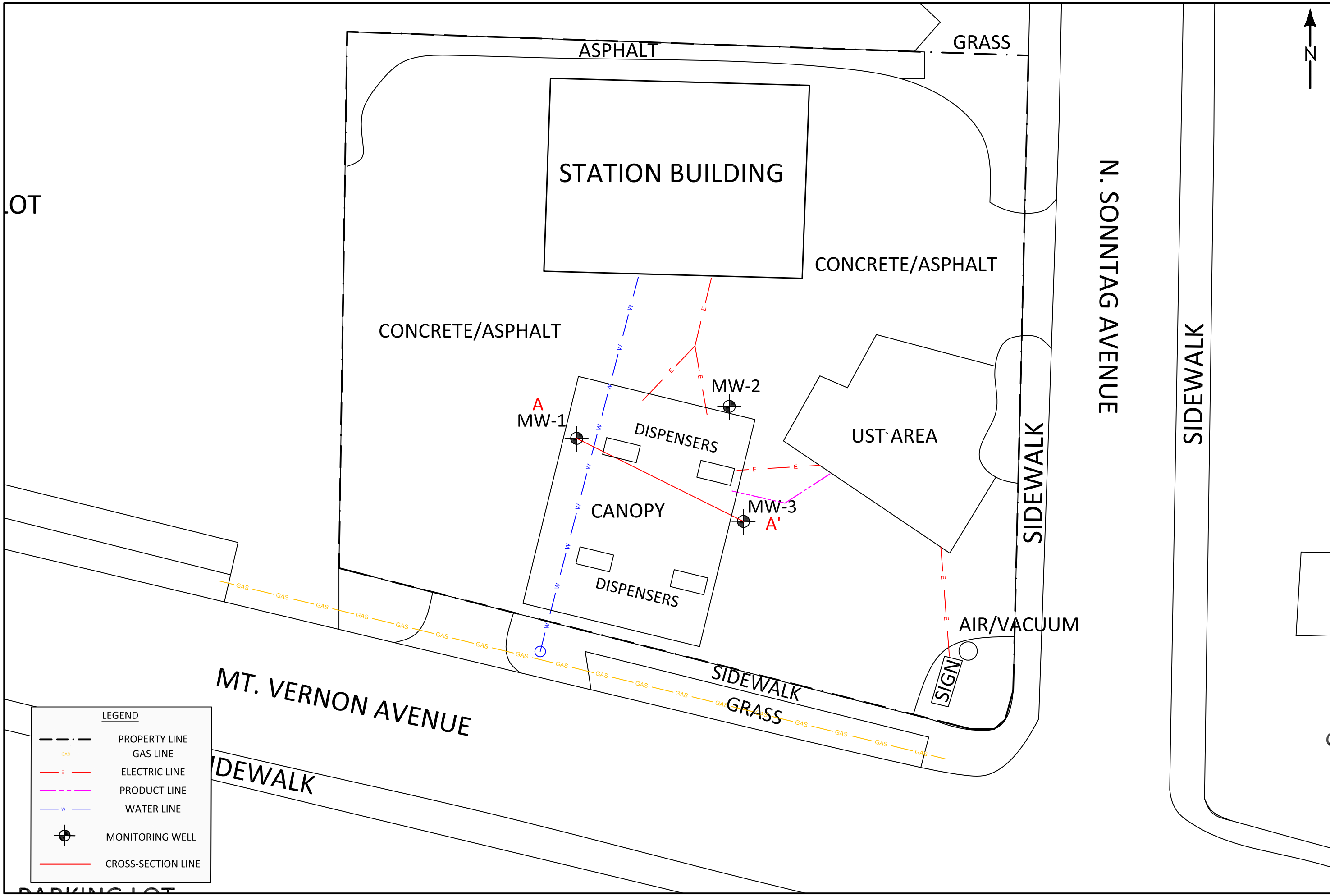
Underlined compounds exceed RCG Residential Soil Migration to Groundwater SLs.

IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA 47712

DRAWN BY: L. Lohnstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

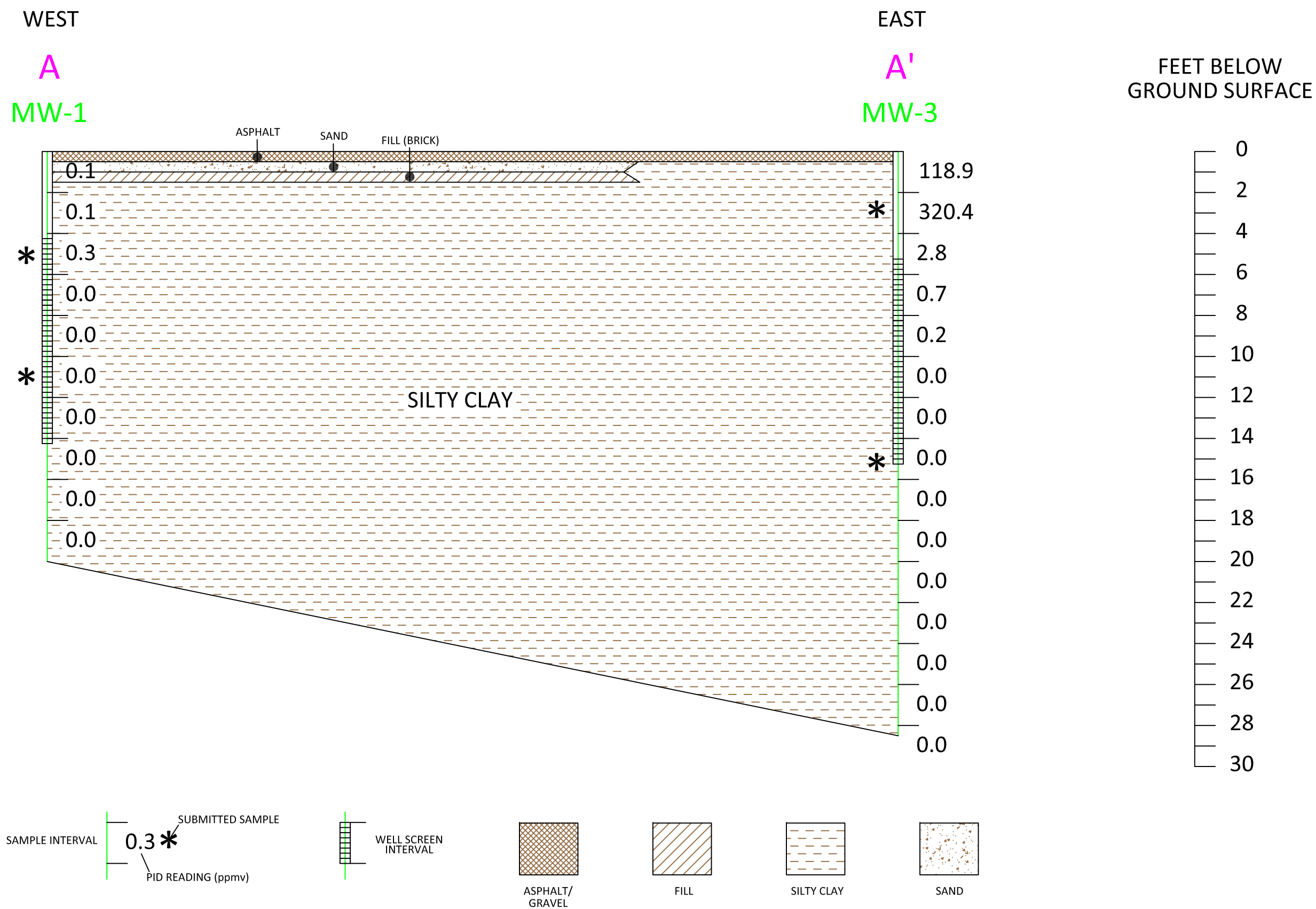
FIGURE 4
SOIL ANALYTICAL RESULTS MAP



QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

DRAWN BY: L. LOHRSTORFER
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

FIGURE 5A
CROSS SECTION LOCATION MAP



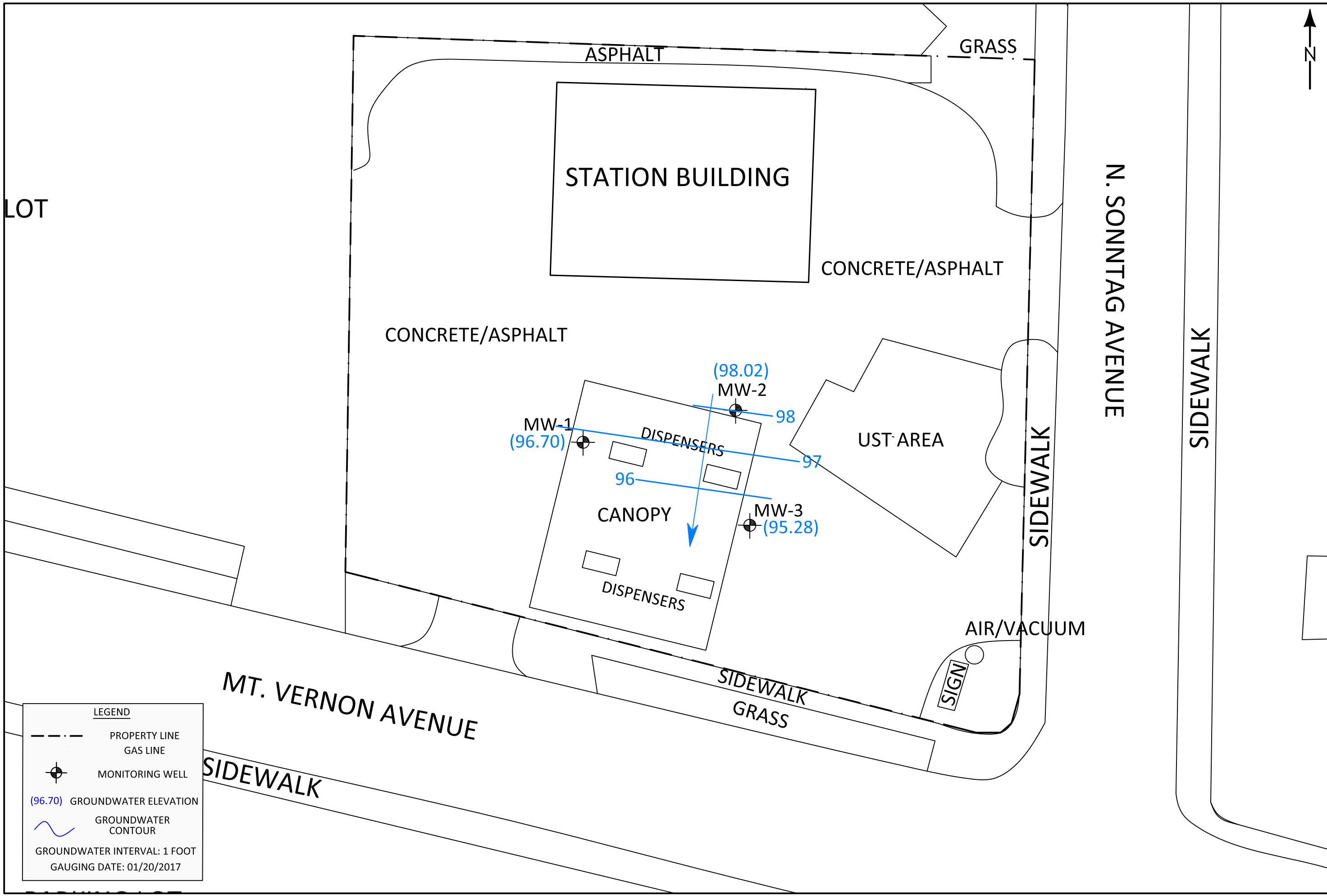
HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

FIGURE 5B
CROSS SECTION A-A'

DRAWN BY:	L LOHRSTORER
DATE:	02/06/17
REVISED:	
IN17002	
DWG QUICK SHOP	

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

IWM CONSULTING GROUP



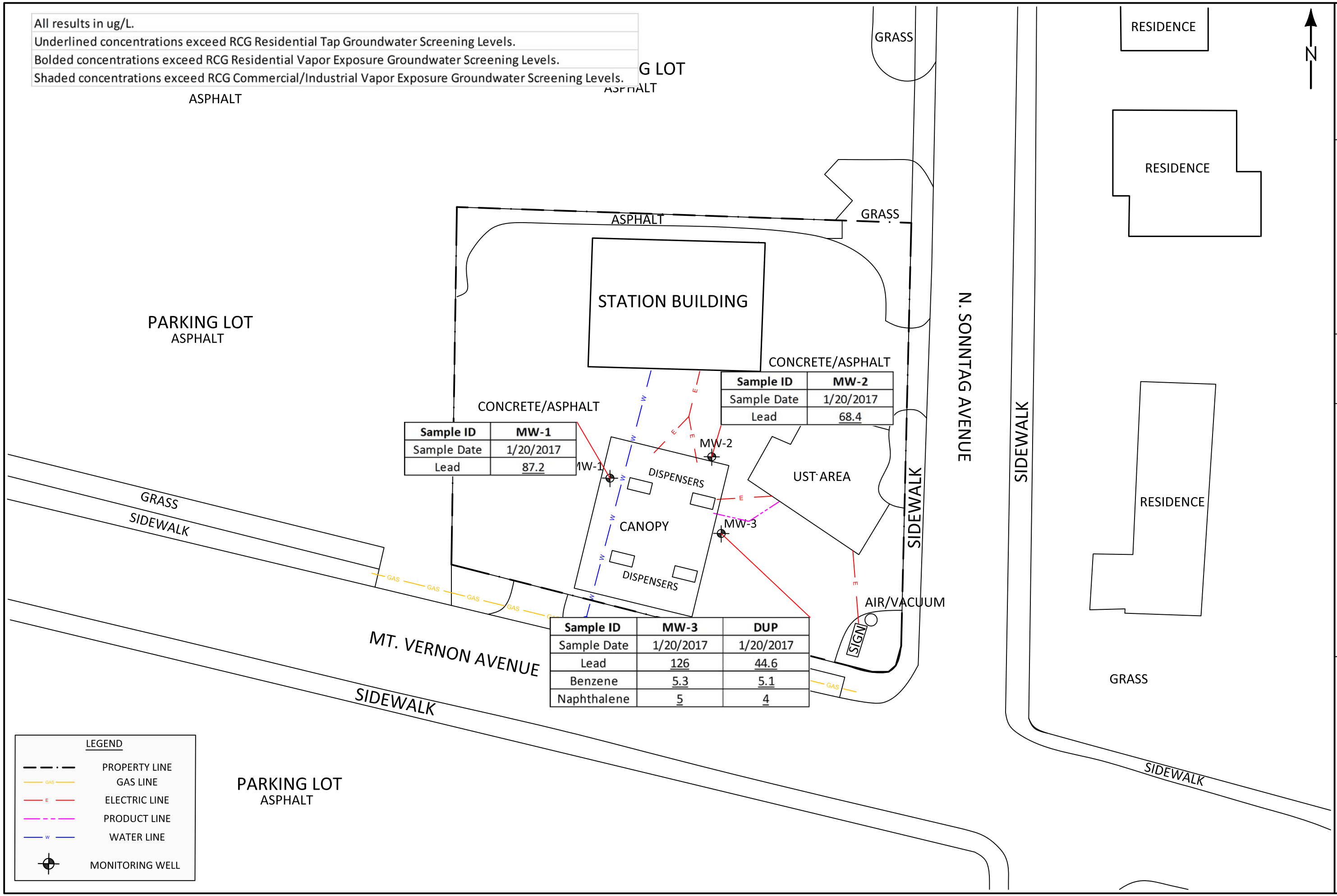
IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

DRAWN BY: L. Lohnstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

FIGURE 7
GROUNDWATER FLOW MAP

All results in ug/L.
Underlined concentrations exceed RCG Residential Tap Groundwater Screening Levels.
Bolded concentrations exceed RCG Residential Vapor Exposure Groundwater Screening Levels.
Shaded concentrations exceed RCG Commercial/Industrial Vapor Exposure Groundwater Screening Levels.



Sample ID	MW-1
Sample Date	1/20/2017
Lead	87.2

Sample ID	MW-2
Sample Date	1/20/2017
Lead	68.4

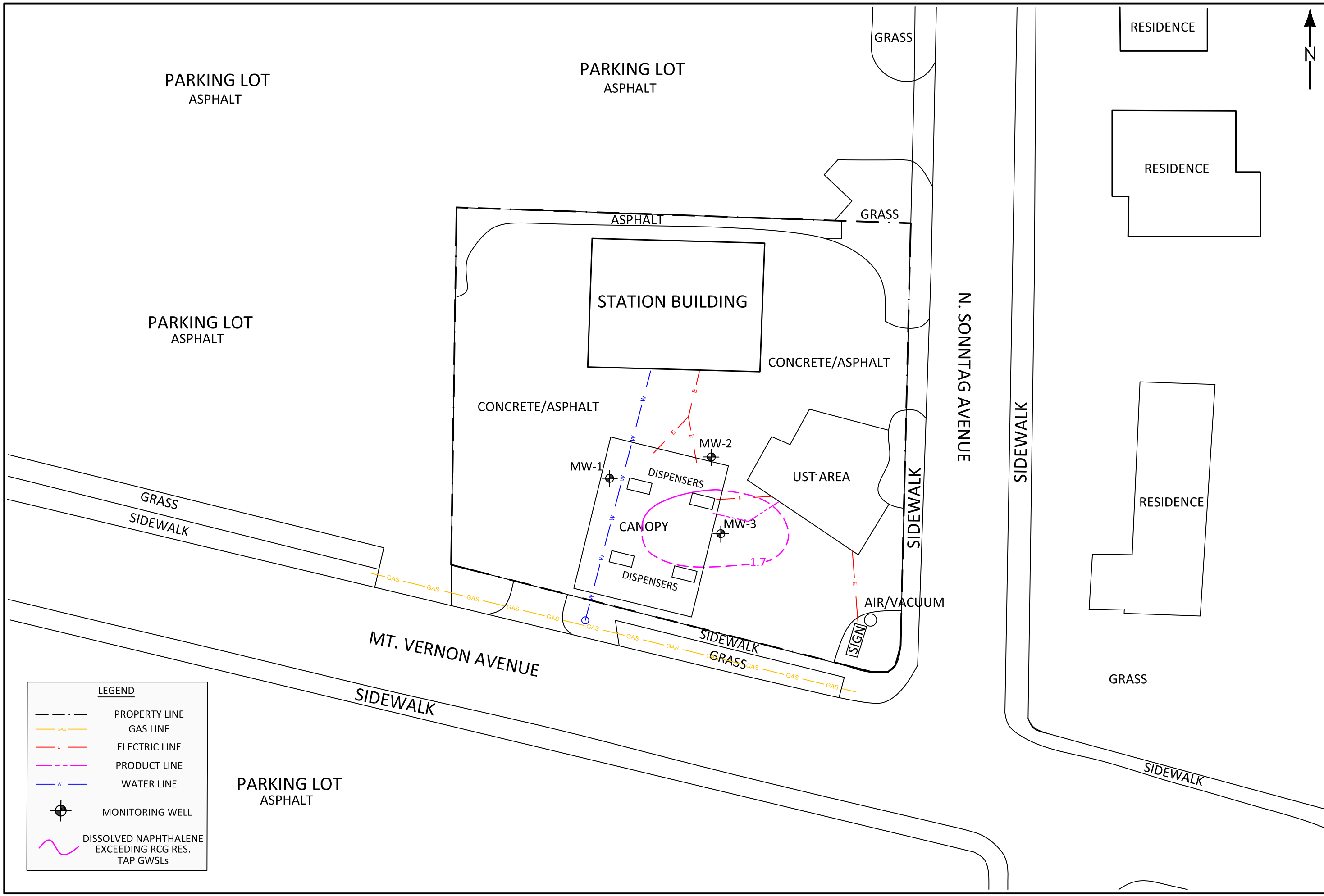
Sample ID	MW-3	DUP
Sample Date	1/20/2017	1/20/2017
Lead	126	44.6
Benzene	5.3	5.1
Naphthalene	5	4

IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

DRAWN BY: L. Lohrstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN17002
DWG #Site Map

FIGURE 8
GROUNDWATER ANALYTICAL MAP



IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA

DRAWN BY: L. Lohnstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

FIGURE 9
DISSOLVED NAPHTHALENE
ISOPLETH MAP

APPENDIX A

Parcel ID Information

ADMINISTRATIVE INFORMATION

PARCEL NUMBER
82-05-23-019-009.006-025

Parent Parcel Number

Property Address
2801 MOUNT VERNON AVE

Neighborhood
456 Mixed Use Fair

Property Class
450 Com Convenience market w gas

TAXING DISTRICT INFORMATION

Jurisdiction	82	VANDERBURGH
Area	005	PERRY
Corporation	N	
District	025	Perry-City
Section & Plat	23	
Routing Number	19-009-006	

Site Description

Topography:

Public Utilities:

Street or Road:

Neighborhood:

Zoning:

Legal Acres:
0.6940

Admin Legal
0.6100

OWNERSHIP

TWIN BROTHERS INVESTMENTS LLC
435 VIRGINIA AVE UNIT 707
INDIANAPOLIS, IN 46203 USA

PT NW SE 23-6-11

Tax ID 10-210-19-009-006 Printed 06/29/2016 Card No. 1 of 1

TRANSFER OF OWNERSHIP

Date		
07/21/2014	WEINZAPFEL, THOMAS H	Bk/Pg: 14, 16040 $150000
07/18/2012	AGREEMENT FOR PURCHASE	Bk/Pg: 12, 17749 $0
10/22/1981		Bk/Pg: 647, 61/63 $0
05/12/1977		Bk/Pg: 1, 5081 $0

COMMERCIAL

VALUATION RECORD

Assessment Year		03/01/2011	03/01/2012	03/01/2013	03/01/2013	03/01/2014	03/01/2015	01/01/2016
Reason for Change		Trending	Trending	Trending	Trending	Trending	Trending	Trending
VALUATION	L	106200	53100	53100	53100	53100	53100	53100
Appraised Value	B	37100	37700	223400	223400	221200	218600	214200
	T	143300	90800	276500	276500	274300	271700	267300
VALUATION	L	106200	53100	53100	53100	53100	53100	53100
True Tax Value	B	37100	37700	223400	223400	221200	218600	214200
	T	143300	90800	276500	276500	274300	271700	267300

LAND DATA AND CALCULATIONS

Land Type	Rating Soil ID -or- Actual Frontage	Measured Acreage -or- Effective Frontage	Table 200 Effective Depth	Prod. Factor -or- Depth Factor -or- Square Feet	Base Rate	Adjusted Rate	Extended Value	Influence Factor	Value
1 PRIMARY				26544.00	2.00	2.00	53090		53090

CONT: CONTRACT SALE INFORMATION
7/18/2014 COMPLETION OF CONTRACT SALE
7/13/2012 CONTRACT SALE TO TWIN BROTHERS INVESTMENTS $150,000

Supplemental Cards

TRUE TAX VALUE 53090

FARMLAND COMPUTATIONS

Parcel Acreage 0.6940
81 Legal Drain NV [-]
82 Public Roads NV [-]
83 UT Towers NV [-]
9 Homesite(s) [-]
91/92 Excess Acreage [-]

TOTAL ACRES FARMLAND

TRUE TAX VALUE

Measured Acreage
Average True Tax Value/Acre

TRUE TAX VALUE FARMLAND

Classified Land Total
Homesite(s) Value (+)
Excess Acreage Value (+)

Supplemental Cards
TOTAL LAND VALUE 53100

IMPROVEMENT DATA

PHYSICAL CHARACTERISTICS

ROOFING

Built-up

WALLS

	B	1	2	U
Frame		Yes		
Brick		Yes		
Metal				
Guard				

FRAMING

	B	1	2	U
Wd Jst	0	2360	0	0

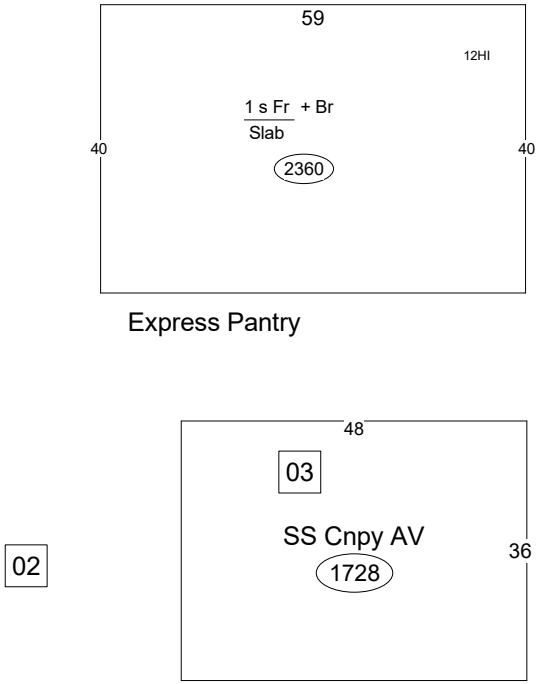
FINISH

	UF	SF	FO	FD
1	0	0	2360	0
Total	0	0	2360	0

HEATING AND AIR CONDITIONING

	B	1	2	U
Heat	0	2360	0	0
A/C	0	2360	0	0

PLUMBING	Residential #	Residential TF	Commercial #	Commercial TF
Full Baths			1	3
Half Baths				
Extra Fixtures				4
TOTAL		0		7



P Key	GCM09
#Units	
AVSize	
Floor	1
Perim	198
PAR	8
Height	12
Use	CONVMRKT
Use SF	2360
Use %	100.00%
Rate	98.03
Fr Adj	-9.63
WH Adj	0.00
Ot Adj	0.00
BASE	88.40
BPA %	100%
Subtot	88.40
U Fin	0.00
Ot Adj	0.00
IntFin	0.00
Div W	0.00
Lightg	0.00
AirCon	0.00
Heat	0.00
Sprink	0.00
SF Pr	88.40
x SF	208620
Subtot	208620
Plumb	11200
SpFeat	0
ExFeat	0
TOTAL	219820
Qual/Gr	C
RCN	219820
Use Dep	9/ 0

(LCM: 100.00)

SPECIAL FEATURES

Description	Value

SUMMARY OF IMPROVEMENTS

ID	Use	Stry Hgt	Const Type	Grade	Year Const	Eff Year	Cond	Base Rate	Feat-ures	Adj Rate	Size or Area	Computed Value	Phys Depr	Obsol Depr	Market Adj	% Comp	Value
C	CONVMRKT	0.00		C	2012	2011	AV	0.00	N	0.00	2360	219820	9	0	100	100	200000
02	PAVING	5.00	85	C	1965	1966	AV	2.50	N	2.50	2 DIA	20000	80	0	100	100	4000
03	PAVING	4.00	6	C	1991	1990	AV	3.74	N	3.74	4 DIA	7480	80	0	100	100	1500
04	SSCNPYAV	0.00	51	C	1965	1965	AV	25.21	N	25.21	36x 48	43560	80	0	100	100	8700

Data Collector/Date	Appraiser/Date	Neighborhood	Supplemental Cards
DF 06/05/1999	DF 06/05/1999	Neigh 456 AV	

TOTAL IMPROVEMENT VALUE 214200

APPENDIX B

UST Notifications and Inspections

TP

NOTIFICATION FOR UNDERGROUND STORAGE TANKS

State Form 45223 (R5 / 1-14)

RETURN COMPLETED FORMS TO:
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY, UST SECTION
100 N. Senate Avenue
Indianapolis, IN 46204-2251
UST: (317) 234-4112; Release Reporting: (317) 232-8900

8924	:Facility ID Number
46895	:Owner ID Number

Notification is required by Federal and State laws for all storage tanks that are operational or have been used to store regulated substances after January 1, 1974. The information requested is required by Indiana Code 329 IAC 9, as amended. Specific detailed instructions for the completion of this form may be obtained by contacting the UST Section at the above address.

RECEIVED
OCT 14 2015
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Instructions for this form can be found at http://www.in.gov/idem/files/form_ust_notification_instructions.doc

A TYPE OF NOTIFICATION

THIS NOTIFICATION FORM PROVIDES INFORMATION FOR *(CHECK ALL THAT APPLY.)*:

- [ ] A NEW FACILITY
- [x] A NEW OWNER
- [ ] A NEW TANK
- [ ] A SYSTEM UPGRADE
- [ ] AN ADDRESS CHANGE
- [x] A CHANGE OF OWNERSHIP
- [ ] A CHANGE IN SERVICE
- [x] OTHER paperwork/cleanup
- [ ] A TEMPORARY CLOSURE
- [ ] A REQUEST FOR CLOSURE *Attach workplan for in-place closure.*
- [ ] A PERMANENT CLOSURE

B FACILITY LOCATION

FACILITY NAME	Quick Shop
FACILITY ADDRESS *(number and street)*	2801 Mount Vernon Avenue
CITY	Evansville
STATE	IN
ZIP CODE	47712
TELEPHONE NUMBER	(812) 442-8127
COUNTY	Vanderburgh
GPS LOCATION (UTM)	*See Attached

C FACILITY OPERATOR

OPERATOR NAME	S&P Petroleum Inc.
OPERATOR ADDRESS *(number and street)*	2801 Mount Vernon Avenue
CITY	Evansville
STATE	IN
ZIP CODE	47712
TELEPHONE NUMBER	(812) 774-0946
FEDERAL ID NUMBER	47-3807758/0
EMAIL ADDRESS	aps4590@gmail.com

D PROPERTY OWNER

PROPERTY OWNER NAME	Twin Brothers Investments, LLC
PROPERTY OWNER ADDRESS *(number and street)*	435 Virginia Avenue, Suite 707
CITY	Indianapolis
STATE	IN
ZIP CODE	46203
TELEPHONE NUMBER	(317) 430-3434
FEDERAL ID NUMBER	27-0513014
TAX ID NUMBER	N/A
EFFECTIVE DATE OF OWNERSHIP *(mm/dd/yy)*	07/13/2012
EMAIL ADDRESS	vsahi@sbcglobal.net

E UST OWNER

UST OWNER NAME ([x] *Mark if same as Property Owner.*)	S&P Petroleum Inc.
UST OWNER ADDRESS *(number and street)*	2801 Mount Vernon Avenue
CITY	Evansville
STATE	IN
ZIP CODE	47712
TELEPHONE NUMBER	(812) 774-0946
FEDERAL ID NUMBER	47-3807758/0
TAX ID NUMBER	0154552410
EFFECTIVE DATE OF OWNERSHIP *(mm/dd/yy)*	07/31/2015
EMAIL ADDRESS	aps4590@gmail.com

F CONTACT AT UST LOCATION

NAME OF CONTACT PERSON AT UST LOCATION		NUMBER OF USTs AT THIS LOCATION
Class C Operator on Duty 812-602-5512		3
JOB TITLE	TELEPHONE NUMBER	NUMBER OF PAGES ATTACHED TO THIS
Manager	(812) 442-8127	

FACILITY NAME	FACILITY ID NUMBER	State Form 45223 (R5 / 1-14)
Quick Shop	8924	Page: 2 of 4

G CERTIFICATION OF FINANCIAL RESPONSIBILITY

I am familiar with the requirements for Financial Responsibility under 329 IAC 9-8 and have read the instructions for this form. I have copied only the bold and underlined text from Section G of the instructions in the box below that describes the type of Financial Responsibility I have for this site and I understand that I must produce evidence of this upon request.

6. D. ELTF Liability Insurance (9-8-11(c)(4))

TITLE	NAME	SIGNATURE	DATE *(month / day / year)*
Member	Rajinder Kaur	Rajinder Kaur	10/12/15

H THIRTY (30) DAY REQUEST FOR UST CLOSURE

To request a UST closure, mark "A Request for Closure" in Section A, Type of Notification. Complete the entire form as with other types of notifications and fill in the requested information below.

PROPOSED CONTRACTOR		LUST INCIDENT INFORMATION
CONTRACTOR COMPANY		LUST INCIDENT NUMBER *(IF APPLICABLE)*
CONTRACTOR NAME	CERTIFICATION NUMBER	DATE INCIDENT REPORTED *(month / day / year)*
STREET ADDRESS *(number and street)*		***NOTE: Any UST closures must be performed by persons certified by the Indiana State Fire Marshal. City/County Fire Departments, the Indiana State Fire Marshal, and IDEM's UST Section must be notified 14 days prior to closure. Please report to the Leaking Underground Storage Tank Section at (317) 232-8900 if signs of soil or groundwater contamination are observed. Indiana State Fire Marshal (317) 232-2222**
CITY	STATE	
ZIP CODE	TELEPHONE NUMBER	

I CONTRACTOR COMPLIANCE CERTIFICATION; ATTACH AS-BUILT UST PLANS

OATH: I certify that the information concerning installation, testing, upgrade, closure, removal and change-in-service provided in this notification is true and correct to the best of my knowledge.

NAME OF CONTRACTOR/CONSULTANT	NAME OF COMPANY	AS-BUILTS ATTACHED
		☐ Yes ☐ No
SIGNATURE *(IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)*	CERTIFICATION NUMBER	DATE *(month / day / year)*

J OPERATOR CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF OPERATOR OR AUTHORIZED REPRESENTATIVE	NAME OF COMPANY	LEASE ATTACHED
Rajinder Kaur	S&P Petroleum Inc.	☐ Yes ☐ No
SIGNATURE *(IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)*	DRIVERS LICENSE NUMBER	DATE *(month / day / year)*
Rajinder Kaur	N/A	10/12/15

K PROPERTY OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF PROPERTY OWNER OR AUTHORIZED REPRESENTATIVE	NAME OF COMPANY	DEED ATTACHED
Varinder Sahi	Twin Brothers Investments, LLC	☒ Yes ☐ No
SIGNATURE *(IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)*	DRIVERS LICENSE NUMBER	DATE *(month / day / year)*
	N/A	

L UST OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME OF UST OWNER OR AUTHORIZED REPRESENTATIVE	NAME OF COMPANY	OWNER DOC ATTACHED
Rajinder Kaur	S&P Petroleum Inc.	☒ Yes ☐ No
SIGNATURE *(IN INK - NO PHOTOCOPIES WILL BE ACCEPTED.)*	DRIVERS LICENSE NUMBER	DATE *(month / day / year)*
Rajinder Kaur	N/A	10/12/15

FACILITY NAME	FACILITY ID NUMBER	State Form 45223 (R5 / 1-14)
Quick Shop	8924	Page: 3 of 4

M NUMBER OF UNDERGROUND STORAGE TANKS

Complete a column for each tank. Attach additional sheets when number of USTs exceeds six (6).

SEQUENTIAL UST NUMBER	1	2	3			
OWNER-SPECIFIED UST NUMBER	1	2	3			
IS THIS A COMPARTMENTED UST?	☐Y☒N	☐Y☒N	☐Y☒N	☐Y☐N	☐Y☐N	☐Y☐N
(mm/dd/yyyy) DATE INSTALLED	05/05/1992	05/05/1992	05/05/1992			
(gallons) CAPACITY	8,000	8,000	8,000			

N STATUS OF UNDERGROUND STORAGE TANKS

1. CURRENTLY IN USE	☒	☒	☒	☐	☐	☐
(mm/dd/yyyy) Date Brought Into Use						
2. TEMPORARILY OUT OF USE	☐	☐	☐	☐	☐	☐
(mm/dd/yyyy) Date Last Used						
3. PERMANENTLY OUT OF USE						
(mm/dd/yyyy) Date Removed From Ground						
(mm/dd/yyyy) Date Filled In-Place						
(mm/dd/yyyy) Date of Change-in-Service						
4. REQUESTING CLOSURE						
Removal Closure	☐	☐	☐	☐	☐	☐
In-Place Closure	☐	☐	☐	☐	☐	☐

O SUBSTANCE CURRENTLY OR LAST STORED IN USTs

1. PETROLEUM						
Gasoline	☒	☒	☒	☐	☐	☐
Diesel	☐	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐	☐
Biofuel%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(specify) Other						
2. HAZARDOUS SUBSTANCE						
CERCLA Substance	☐	☐	☐	☐	☐	☐
Chemical Abstract Service Number						
Mixture of Substances	☐	☐	☐	☐	☐	☐

P UST CONSTRUCTION MATERIAL

Steel	☐	☐	☐	☐	☐	☐
Fiberglass	☒	☒	☒	☐	☐	☐
(Steel with Fiberglass Jacket) Clad	☐	☐	☐	☐	☐	☐
Double-Walled	☐	☐	☐	☐	☐	☐
Product stored in tank is compatible	☒	☒	☒	☐	☐	☐
(specify) Other						

Q UST CORROSION PROTECTION

Interior Lining	☐	☐	☐	☐	☐	☐
(mm/dd/yyyy) Date Liner Installed						
(Galvanic) Sacrificial Anodes	☐	☐	☐	☐	☐	☐
Impressed Current	☐	☐	☐	☐	☐	☐
(mm/dd/yyyy) Date Anodes Installed						
(specify) Other	fiberglass	fiberglass	fiberglass			

FACILITY NAME	FACILITY ID NUMBER	State Form 45223 (R5 / 1-14)
Quick Shop	**8924**	**Page: 4 of 4**

Complete a column for each UST. Attach additional sheets when number of USTs exceeds six (6).

SEQUENTIAL UST NUMBER	1	2	3			
OWNER-SPECIFIED UST NUMBER	1	2	3			
R PIPING CONSTRUCTION AND PROTECTION						
Steel	☐	☐	☐	☐	☐	☐
Fiberglass	☒	☒	☒	☐	☐	☐
Double-Walled	☐	☐	☐	☐	☐	☐
(Galvanic) Sacrificial Anodes	☐	☐	☐	☐	☐	☐
Impressed Current	☐	☐	☐	☐	☐	☐
Product stored in tank is compatible	☒	☒	☒	☐	☐	☐
(specify) Other						
S UST RELEASE DETECTION						
Automatic Tank Gauging	☒	☒	☒	☐	☐	☐
Interstitial Monitoring	☐	☐	☐	☐	☐	☐
Interstitial Monitoring / Barrier	☐	☐	☐	☐	☐	☐
Statistical Inventory Reconciliation	☐	☐	☐	☐	☐	☐
Manual Tank Gauging	☐	☐	☐	☐	☐	☐
Another Method						
T PIPING TYPE AND RELEASE DETECTION						
Suction — European Suction	☐	☐	☐	☐	☐	☐
Suction — American Suction	☐	☐	☐	☐	☐	☐
Pressurized — Auto Leak Detector	☒	☒	☒	☐	☐	☐
Must Check One. — Flow Restrictor	☒	☒	☒	☐	☐	☐
Must Check One. — Flow Shut Off	☐	☐	☐	☐	☐	☐
Must Check One. — Audible Alarm	☐	☐	☐	☐	☐	☐
Must Check One. — Automatic Tank Gauge	☒	☒	☒	☐	☐	☐
Must Check One. — SIR	☐	☐	☐	☐	☐	☐
Must Check One. — Interstitial Monitoriing	☐	☐	☐	☐	☐	☐
Line Tightnesss Testing	☒	☒	☒	☐	☐	☐
U SPILL AND OVERFILL PREVENTION EQUIPMENT						
Catchment Basins	☒	☒	☒	☐	☐	☐
Auto Shutoff Devices	☒	☒	☒	☐	☐	☐
Overfill Alarm	☐	☐	☐	☐	☐	☐
Ball Float Valves	☒	☒	☒	☐	☐	☐
Under-Dispenser Containment Sumps	☐	☐	☐	☐	☐	☐
(Specify below) Another Method						
V COMPLIANCE SPECIFIC TO THIS INSTALLATION, UPGRADE OR CLOSURE						
Contractor certified by IDHS-DFBS	☐	☐	☐	☐	☐	☐
Work inspected by IDHS-DFBS	☐	☐	☐	☐	☐	☐
Installer certified by manufacturer	☐	☐	☐	☐	☐	☐
Work inspected by registered PE	☐	☐	☐	☐	☐	☐
(Specify below) Another Method						

STATE OF INDIANA)
)
COUNTY OF MARION)

BEFORE THE INDIANA DEPARTMENT
OF ENVIRONMENTAL MANAGEMENT

AFFIDAVIT OF RAJINDER KAUR FOR PROPERTY AND UST OWNERSHIP

1. I am over the age of eighteen, am competent to testify and have personal knowledge of the matters discussed herein.

2. I'm a Member for S&P Petroleum Inc.

3. S&P Petroleum Inc. purchased on Contract the underground storage tank site located at 2801 Mount Vernon Avenue, Evansville IN 47712 (the "Site") with the Facility ID number 8924.

4. S&P Petroleum Inc. is buying on contract the Site from Twin Brothers Investments, LLC.

5. The Contract was signed July 31st, 2015.

6. S&P Petroleum Inc. is responsible for Financial Assurance of the tanks.

7. S&P Petroleum Inc. is the Owner and Operator of the site.

I affirm, under penalty of perjury that the above representations are true.

(signed) Rajinder Kaur

(printed) RAJINDER KAUR

STATE OF INDIANA)
)
COUNTY OF MARION)

ROBIN M KENNEDY
Notary Public - Seal
State of Indiana
Marion County
My Commission Expires Aug 27, 2022

SUBSCRIBED AND SWORN to before me, a Notary Public in and for said County and State, this 14 day of Oct, 2015.

My Commission expires: Aug 27, 2022

Notary Public Signature

Robin M Kennedy

Printed Name

County of Residence: Marion

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File Edit View Tools Add Help
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Mount Vernon Avenue, Evansville, IN
Search
ex: Tokyo, Japan
Get Directions History
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Sign in
FID 8924
2801 Mt Vernon Ave
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Places
Layers
Earth Gallery
Tour Guide
1992
Imagery Date: 3/14/2014 16 S 446578.07 m E 4204141.09 m N elev 406 ft eye alt 871 ft
9:58 AM
10/7/2015

Google Earth
File Edit View Tools Add Help
Search
Mount Vernon Avenue, Evansville, IN
Search
ex: Tokyo, Japan
Get Directions History
2801 Mt Vernon Ave
Sign in
FID 8924
2801 Mt Vernon Ave
© 2015 Google
Google earth
Places
Layers
Earth Gallery
Tour Guide
1992
Imagery Date: 3/14/2014 16 S 446578.07 m E 4204141.09 m N elev 406 ft eye alt 871 ft
9:58 AM
10/7/2015

REGISTERED RETAIL MERCHANT CERTIFICATE

Indiana Department of Revenue
Government Center North
Indianapolis, Indiana 46204
(317) 615-2700

CONTROL NUMBER
1500119151913

QUICK SHOP
2801 MOUNT VERNON AVE
EVANSVILLE, IN 47712-6752

IS AUTHORIZED TO COLLECT INDIANA RETAIL SALES TAX
AT THE ADDRESS ABOVE IF DIFFERENT FROM BELOW.

TID: 0154552410
LOC: 001
FID: 47-3807758/0
ISSUED: 04/25/2015
EXPIRES: 04/30/2017

THIS LICENSE:
IS NOT TRANSFERRABLE TO ANY OTHER PERSON.
IS NOT SUBJECT TO REBATE.
IS VOID IF ALTERED.

S & P PETROLEUM INCORPORATED
5424 CHESTERTON PL
INDIANAPOLIS, IN 46237-9303

Mike Alley
COMMISSIONER

1500119151913

MUST BE DISPLAYED BY MERCHANT IN LOCATION SHOWN

(Detach Here)

Dear QUICK SHOP:

Attached is your new registered retail merchant certificate (RRMC). It shows your Taxpayer Identification Number (TID) and Location Number (LOC). Please make note of these important numbers. You will need to use them on exemption certificates and for phone or written communication with the Indiana Department of Revenue (the Department).

Based on your estimated monthly sales from your business tax application (BT-1), your filing frequency will be EARLY FILER. Your business application indicated the start date of the business as 05/01/2015. Therefore, your first tax payment is due 06/22/2015.

Please note the expiration date on the certificate. Effective January 2007, all Indiana RRMCs must be renewed every two years with the Department. Merchants in good standing with the Department will automatically receive a renewed certificate. However, if a merchant has unpaid tax debts owed to the Department, they cannot renew their RRMC.

If your address changes, please use the change of address form and envelope provided in your coupon packet.

New Businesses Required to File Online
As a new business, you also are required to file your sales and/or withholding taxes electronically. **A new law that went into effect Jan. 1, 2010, requires that all new businesses file these tax types via INtax**, the state's free online filing program.

With INtax, you also can manage your obligations for Indiana prepaid sales, metered pump sales, tire fees and fuel taxes. It also gives you 24/7 access to business-tax records, lets you file and pay online right up to the last deadline minute, and saves you the cost and hassle of mailing in returns each month.

Many taxpayers currently using INtax are highly satisfied with it. In fact, 93 percent of INtax users recently surveyed said they would recommend INtax to others.

Please register for INtax today at www.INtax.in.gov When registering, use your preapproved INtax activation code, 1499A6E8-F9C0-01D4-E053-0A1318405FFA.

If you have questions about your sales or withholding taxes, please call (317) 233-4015.

Sincerely,

Amanda Lively, Supervisor
Tax Administration
Indiana Department of Revenue

50352110 _000022_ 001 OF 001 00022

Name Searched On:
S&P PETROLEUM INC (Legal)

Current Information

Entity Legal Name:
S & P PETROLEUM INC.

Entity Address:
2801 MT VERNON AVE, EVANSVILLE, IN 47712

General Entity Information:

Control Number: **2015042300127**
Status: **Active**
Entity Type: **For-Profit Domestic Corporation**

Entity Creation Date: **4/23/2015**
Entity Date to Expire:
Entity Inactive Date:

This entity is current with Business Entity Report(s).

Other Names for this Entity:

Date	Name (Type)
4/23/2015	QUICK SHOP (Assumed)

Registered Agent(name, address, city , state , zip):
JAGIR SINGH
2801 MT VERNON AVE
EVANSVILLE , IN 47712

Principals(name, address, city, state, zip - when provided)
JAGIR SINGH
Incorporator
2801 MAT VERNON AVE
EVANSVILLE , IN 47712

Transactions:

Date Filed	Effective Date	Type
04/23/2015	04/23/2015	Articles of Incorporation
04/23/2015	04/23/2015	Certificate of Assumed Business Name

Corporate Reports:
Years Paid
N/A

Years Due

None

Additional Services Available:

GO	Generate an official Certificate of Existence/Authorization. There is a fee of 20.00 for *IN.gov* subscribers and a fee of $21.42 for credit card users. Example Certificate

NEW SEARCH

All the entity information captured by the Indiana Secretary of State, pursuant to law, is displayed on the Internet. For further information, please call our office at 317-232-6576. Copies of actual corporate documents can also be downloaded online.

If you encounter technical difficulties while using these services, please contact the *IN.gov* Webmaster.
If you are unable to find the information you need through the resources provided on this web site, please contact Secretary of State Connie Lawson's Business Services Division at 317-232-6576.

« Back to the SOS Web site

Name Searched On:
TWIN BROTHERS (Legal)

Current Information

Entity Legal Name:
TWIN BROTHERS INVESTMENTS LLC

Entity Address:
435 VIRGINIA AVE,, SUITE 707, INDIANAPOLIS, IN 46203

General Entity Information:

Control Number: **2009070900220**
Status: **Active**
Entity Type: **Domestic Limited Liability Company (LLC)**

Entity Creation Date: **8/1/2009**
Entity Date to Expire:
Entity Inactive Date:

This entity is past due on its Business Entity Report(s). Click here to file the Business Entity Report.

There are no other names on file for this Entity.

Registered Agent(name, address, city , state , zip):
PATRICK ROONEY, E.A. HARVEY & ASSOCIATES, P.C.
6910 NORTH SHADELAND AVENUE, SUITE 200
INDIANAPOLIS , IN 46241

Principals(name, address, city, state, zip - when provided)
This Limited Liability Company Does Not Have Managers.

Transactions:

Date Filed	Effective Date	Type
07/09/2009	08/01/2009	Articles of Organization

Corporate Reports:
Years Paid
2011 2013

Years Due
2015/2016

Additional Services Available:

GO	Generate an official Certificate of Existence/Authorization. There is a fee of $18.00 for *IN.gov* subscribers and a fee of $19.38 for credit card users. Example Certificate

NEW SEARCH

All the entity information captured by the Indiana Secretary of State, pursuant to law, is displayed on the Internet. For further information, please call our office at 317-232-6576. Copies of actual corporate documents can also be downloaded online.

If you encounter technical difficulties while using these services, please contact the *IN.gov* Webmaster.
If you are unable to find the information you need through the resources provided on this web site, please contact Secretary of State Connie Lawson's Business Services Division at 317-232-6576.

« Back to the SOS Web site

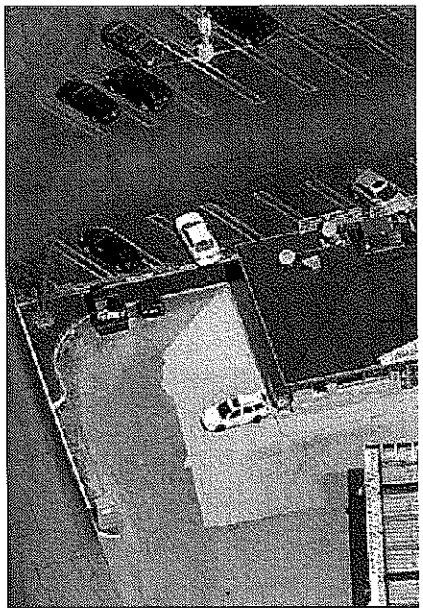
2801 MOUNT VERNON AVE

Property Record Card | Show On Map

82-05-23-019-009.006-025

Brief Legal Description (Not for Use on Legal Documents):
PT NW SE 23-6-11
PERRY TOWNSHIP

Property Owner:	TWIN BROTHERS INVESTMENTS LLC
Owner's Address:	435 VIRGINIA AVE UNIT 707
City:	INDIANAPOLIS
State:	IN
Zip:	46203



Mouse over image to pause, c

Valuation Record

True Tax Values:

Land:	$53,100
Improvements:	$221,200
Total:	$274,300

Transfer Data

Transfer Date: 7/21/2014
WEINZAPFEL, THOMAS H TWIN BROTHERS INVESTMENTS LLC
Sales Disclosure: C82-2014-2025847
Bk/Pg: 14 / 16040

Transfer Date: 7/18/2012
AGREEMENT FOR PURCHASE TWIN BROTHERS INVESTMENTS LLC
Sales Disclosure: C2012R00017749

Bk/Pg: 12 / 17749

Transfer Date: 10/22/1981

Sales Disclosure:
Bk/Pg: 647 / 61/63

Transfer Date: 5/12/1977

Sales Disclosure:
Bk/Pg: 1 / 5081

MEMO:

CONTRACT SALE INFORMATION
7/18/2014 COMPLETION OF CONTRACT SALE
7/13/2012 CONTRACT SALE TO TWIN BROTHERS INVESTMENTS $150,000

©2015 Vanderburgh County Assessor's Office Tel: 812.435.5267 Fax: 812.435.5530

SENTRY
TANK COMPLIANCE

October 14, 2015

Ms. Nicole Wheeler
Indiana Department of Environmental Management
Office of Land Quality
Finance and Operations Branch
100 North Senate Avenue
IGCN Room 1101
Indianapolis, Indiana 46204

RECEIVED

OCT 14 2015

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Re: UST Notification Forms Submittal
On behalf of Darshan Darar & Rajinder Kaur
FID's – 8059 & 8924

Dear Ms.Wheeler:

Sentry Tank Compliance LLC is submitting the attached Underground Storage Tank (UST) Notification form (45223), Certification of Financial Responsibility, and Request for Certificate of Financial Assurance for Underground Storage Tanks (52884), for the FID listed above.

If your office has any questions regarding this submittal, please contact the undersigned at (317) 347-1111, Ext. 129.

Sincerely,

IWM CONSULTING GROUP, LLC

Troy Smith

Troy Smith
President

7428 Rockville Road, Indianapolis, IN 46214
Phone: 317.347.1111 Fax: 317.347.9326
www.sentrytank.com

A1 41884

NOTIFICATION FOR UNDERGROUND STORAGE TANKS

State Form 45223 (R4 / 9-10)

RETURN COMPLETED FORMS TO:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY, UST SECTION
100 N. Senate Ave.
Indianapolis, IN 46204-2251

UST: (317) 234-6923 LUST: (317) 232-8900

Facility ID Number	8	9	2	4		
Federal ID Number						
Owner ID Number	39015					

A GENERAL INFORMATION

Notification is required by Federal and State laws for all storage tanks that are operational or have been used to store regulated substances since January 1, 1974. The information requested is required by Indiana Administrative Code 329 IAC 9, as amended. Specific detailed instructions for the completion of this form may be obtained by contacting the UST Section at the above address.

TYPE OF NOTIFICATION

This notification form provides information for *(check all that apply)*:

☐	A New Facility	☐	An Address Change	☐	A Temporary Closure
☐	A New Owner	☐	A Change of Ownership	☐	A Request for Closure
☐	A New Tank	☒	Other Paperwork Clea-up	☐	A Permanent Closure With Closure Report
☐	A System Upgrade				

B OWNER OF TANKS

OWNER OF TANKS

Name of owner
Twin Brothers Investments LLC

Mailing address *(number and street)*
435 Virginia Ave., Suite 707

City: Indianapolis
State: IN

ZIP code: 46203-
Telephone number: (317) 430 -- 3434

OPERATOR OF FACILITY

Name of operator *(if same as owner, mark box here ☐)*
Family Enterprises Incorporated

Mailing address *(number and street)*
5000 Old State Route 261

City: Newburgh
State: IN

ZIP code: 47630-2807
Telephone number: (812) 422-8127

C TANK/FACILITY LOCATION

Name of facility *(if same as owner, mark box here ☐)*
Family Enterprises Incorporated/XPRESS MART

Mailing address *(if same as owner, mark box here ☐)*
2801 Mount Vernon Ave.

Location of tanks
Same

City: Evansville
State: IN

ZIP code: 47712-
County: Vanderburgh

TYPE OF FACILITY/OWNER

Type of Owner *(Please Check One)* / **Type of Operation** *(Please Check One)*

☒	Private/Business	☐	Motor Vehicle Fuel Dispensing Station
☐	State Government		
☐	Local Government	☐	Commercial
☐	Federal Government	☐	Residential
	GSA Facility (ID# _____)	☐	Industrial
☐	Other	☐	Agriculture
	Effective date of ownership 7/13/12	☐	Other UTM Coordinates

D CONSULTANT/CONTRACTOR COMPLIANCE CERTIFICATION

CERTIFICATION

OATH: I certify that the information concerning installation, upgrade, or closure provided in this notification is true and correct to the best of my knowledge.

Name of contractor / consultant

Name of company

Signature of contractor *(in ink - no photocopies will be accepted)*

Certification number
--

Date *(month, day, year)*
9/1/2012

CONTACT AT TANK LOCATION

Name of contact person at tank location
Muhammad Nadeem

Job title

Telephone number
(812) 422-8127

Number of tanks at this location 3

Number of pages attached to this notification 3

OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and title of owner or authorized representative
YARINDER SAHI

Signature of owner *(in ink - no photocopies will be accepted)*

Date *(month, day, year)*
10/7/13

STATE USE ONLY

RECEIVED
OCT 08 2013
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

STATE FORM 45223 (R4 / 9-10)

DESCRIPTION OF UNDERGROUND STORAGE TANK SYSTEM

E *Complete a column for each tank. Attach additional sheets when number of tanks exceeds six.*

GENERAL	Sequential Tank Number	1	2	3			
	Owner-specified Tank Number						
	Date Installed *(month, day, year)*	5/5/1992	5/5/1992	5/5/1992	/ /	/ /	/ /
	Capacity (gallons)	8,000	8,000	8,000			
F TANK STATUS	*Complete only one of 1, 2 or 3.* **1. Currently in use**	☒	☒	☒	☐	☐	☐
	Date brought into use *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	2. Temporarily out of use	☐	☐	☐	☐	☐	☐
	Date last used *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	3. Permanently out of use						
	Date removed from ground *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Date filled in-place *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	1, 2 or 3 Must be completed if sections 4 or 5 are selected. ***section 4 B requires pre-notification*** **4. Requesting closure**						
	A. To be removed	☐	☐	☐	☐	☐	☐
	B. To be filled in place	☐	☐	☐	☐	☐	☐
	5. Change-in-service						
	Regulated to unregulated	☐	☐	☐	☐	☐	☐
	Unregulated to regulated	☐	☐	☐	☐	☐	☐
G CONTENTS	**Substance currently or last stored** *(Complete only one of 1, 2 or 3)* **1. Petroleum**						
	Diesel	☐	☐	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐	☐	☐
	Gasoline	☒	☒	☒	☐	☐	☐
	Used oil	☐	☐	☐	☐	☐	☐
	Other *(specify)*						
	2. Hazardous substance	☐	☐	☐	☐	☐	☐
	CERCLA Substance or Chemical Abstract Service Number						
	Mixture of Substances	☐	☐	☐	☐	☐	☐
	3. Unknown	☐	☐	☐	☐	☐	☐
H CONSTRUCTION/PROTECTION	**Tank Construction**						
	Steel	☐	☐	☐	☐	☐	☐
	Clad (act 100	☐	☐	☐	☐	☐	☐
	Fiberglass/Plastic	☒	☒	☒	☐	☐	☐
	Interstitial-double walled	☐	☐	☐	☐	☐	☐
	Other *(specify)*						
	Tank Corrosion Protection						
	Interior lining	☐	☐	☐	☐	☐	☐
	Date *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Fiberglass/Plastic	☐	☐	☐	☐	☐	☐
	Impressed Current (Rectifiers)	☐	☐	☐	☐	☐	☐
	Last Anode Test *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Sacrificial Anodes on Tank (Galvanic)	☐	☐	☐	☐	☐	☐
	Last Anode Test *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Other *(specify)*						
I PIPING	**Piping Corrosion Protection**						
	Fiberglass Reinforced Plastic	☒	☒	☒	☐	☐	☐
	Impressed Current (Rectifier)	☐	☐	☐	☐	☐	☐
	Last Anode Test *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Sacrificial Anodes (Galvanic)	☐	☐	☐	☐	☐	☐
	Last Anode Test *(month, day, year)*	/ /	/ /	/ /	/ /	/ /	/ /
	Other *(specify)*						

Name Searched On:
TWIN BROTHERS (Legal)

Current Information

Entity Legal Name:
TWIN BROTHERS INVESTMENTS LLC

Entity Address:
435 VIRGINIA AVE,, SUITE 707, INDIANAPOLIS, IN 46203

General Entity Information:

Control Number: **2009070900220**
Status: **Active**
Entity Type: **Domestic Limited Liability Company (LLC)**

Entity Creation Date: **8/1/2009**
Entity Date to Expire:
Entity Inactive Date:

This entity is current with Business Entity Report(s).

There are no other names on file for this Entity.

Registered Agent(name, address, city , state , zip):
PATRICK ROONEY, E.A. HARVEY & ASSOCIATES, P.C.
6910 NORTH SHADELAND AVENUE, SUITE 200
INDIANAPOLIS , IN 46241

Principals(name, address, city, state, zip - when provided)
This Limited Liability Company Does Not Have Managers.

Transactions:

Date Filed	Effective Date	Type
07/09/2009	08/01/2009	Articles of Organization

Corporate Reports:
Years Paid
2011 2013

Years Due
None

Additional Services Available:

GO	Generate an official Certificate of Existence/Authorization. There is a fee of 20.00 for *IN.gov* subscribers and a fee of $21.42 for credit card users. Example Certificate

Name Searched On:
FAMILY ENTERPRISES INC (Legal)

Current Information

Entity Legal Name:
FAMILY ENTERPRISES INC.

Entity Address:
5000 OLD ST ROUTE 261, NEWBURGH, IN 47630

General Entity Information:

Control Number: **2012112700545**
Status: **Active**
Entity Type: **For-Profit Domestic Corporation**

Entity Creation Date: **11/27/2012**
Entity Date to Expire:
Entity Inactive Date:

This entity is current with Business Entity Report(s).

There are no other names on file for this Entity.

Registered Agent(name, address, city , state , zip):
MUHAMMAD NADEEM
9501 N 1200 W #2
DEMOTTE , IN 46310

Principals(name, address, city, state, zip - when provided)
MUHAMMAD NADEEM
Incorporator
9501 N 1200W # 2
DEMOTTE , IN 46310

Transactions:

Date Filed	Effective Date	Type
11/27/2012	11/27/2012	Articles of Incorporation

Corporate Reports:
Years Paid
N/A

Years Due
None

Additional Services Available:

	Generate an official Certificate of Existence/Authorization.

Wheeler, NICOLE

From: Troy Smith [tsmith@iwmconsult.com]
Sent: Thursday, December 19, 2013 2:07 PM
To: Wheeler, NICOLE
Subject: FW: FID 8924

FYI,

From: Troy Smith
Sent: Wednesday, November 13, 2013 3:10 PM
To: 'NWheeler@IDEM.IN.GOV'
Subject: FW: FID 8924

Nicole,

I think this is the info you were looking for on FID 8924

Date of ownership July 12, 2012
Date tanks brought in to use and store opening May 2013.

Thanks,

Troy

From: Troy Smith
Sent: Wednesday, October 16, 2013 1:57 PM
To: 'Hills, Matthew'
Cc: Wheeler, NICOLE
Subject: RE: FID 8924

Matt and Nicole,

I just received an email that the site opened in May 2013. I'm still waiting for the proof of Insurance. I will forward the most recent e-mail I just received, it is taking more time partly because Varinder is out of the country. Also, Box K should be Automatic Flow Shut-off.

Thanks,

Troy

From: Hills, Matthew [mailto:MHills@idem.IN.gov]
Sent: Wednesday, October 16, 2013 1:28 PM
To: Troy Smith
Cc: Wheeler, NICOLE
Subject: FID 8924

From: Hills, Matthew
Sent: Wednesday, October 16, 2013 1:25 PM

To: tsmith@iwmconsult.com
Cc: Wheeler, NICOLE
Subject: FID 8924

Troy,
I was reviewing the Notification Form for 8924 and a couple of things need to be corrected;

1. The owner of the property in still Thomas Weinzapfel. Twin Brothers has a contract sale agreement but does not hold the deed. A copy of the deed will need to submitted with the Notification form.
2. Box C – Effective date of ownership is not completed and Type of Operation should have the Motor Vehicle Fuel Dispensing Station box checked.
3. Box F – Date brought back into use.
4. Box X – Flow Restrictor, Flow Shut Off, or Alarm needs to be checked.
5. Proof of insurance needs to be submitted with the Notification Form.

I still need all of the documentation required in the Violation Letter.

Thanks,

Matt Hills
Underground Storage Tank Section
Office of Land Quality
Indiana Department of Environmental Management
UST webpage: http://www.in.gov/idem/4999.htm

Cell: 812-454-8121
Ph: 812-354-8381
Fax: 812-380-2304

AFFIDAVIT

Being duly sworn upon my oath, I state that I am the owner, or the legally authorized representative of the owner, of the underground storage tanks located at the facility indicated below. I understand the requirements set forth in Chapter 40 of the Code of Federal Regulations part 280 with respect to the requirements for leak detection, spill and overfill prevention, and corrosion protection for regulated underground storage tanks ("the requirements"). I certify that 3 (total number of USTs upgraded per this affidavit) of 3 (total number of USTs at this facility) underground storage tanks at this facility meet the requirements as I have indicated in this document. I also understand the Indiana Department of Environmental Management ("IDEM") does not guarantee the compliance status of the tanks at this facility based on my representation. I understand that my failure to satisfy the requirements as of December 22, 1998, or my failure to accurately complete this affidavit may result in civil penalties being assessed against me by IDEM. I swear and affirm under penalties for perjury that the foregoing representations are true and accurate.

Signature: Tom Weinzapfel (OWNER)

Print Name: TOM WEINZAPFEL

Date: 10-29-98 Facility ID: 008924

FACILITY ADDRESS: 2801 Mt. Vernon Ave.
EVANSVILLE, IN 47712

Please mail to:

Indiana Department of Environmental Management
Underground Storage Tank Section
Attn: Affidavit Program
100 North Senate Avenue
P.O. Box 7015
Indianapolis, Indiana 46207-7015

Certified Mail #Z341352444
Return Receipt Requested

RECEIVED
NOV 16
IDEM, OER
UST SECTION

December 11, 1997

Tom Weinzapfel
2811Harmony Way
Evansville, IN 47720

Indiana Department of Environmental Management
Office of Environmental Response, UST Branch
100 North Senate Avenue
P.O. Box 7015
Indianapolis, IN 46207-7015

To Whom This Will Concern:

As instructed by Mr. John Mendel, I am enclosing a Notification For Underground Storage Tanks, for three tanks that have been in operation since May of 1992 at Westside Shell, located at 2811 Mt. Vernon Avenue, Evansville, Indiana 47712. The three tanks were installed in connection with the removal of five tanks at the site; thus, the three tanks replaced five prior tanks (tank closure information was to have been submitted following the removal of the tanks).

Since 1992, I have been billed for and have been paying fees on the five tanks, rather than on the correct number of three; thus, I have been overpaying fees for this site. Please see that your records show three tanks at this site since May of 1992, not five, so that in the future I will be billed for only three. Also, if there is any way I may be reimbursed for this overpayment, I'd appreciate it.

Sincerely,

Tom Weinzapfel

RECEIVED
DEC 18 1997
IDEM, OER
UST SECTION

STATE FORM 45223 (REV. 2/97)

NOTIFICATION FOR UNDERGROUND STORAGE TANKS

RETURN COMPLETED FORM TO
Indiana Department of Environmental Management
Office of Environmental Response, UST Branch
N1255, 100 North Senate Avenue
P.O. Box 7015
Indianapolis, Indiana 46207-7015
UST: (317) 308-3064 LUST: (317) 308-3088

Facility ID Number	0 1 0 1 8 1 9 1 2 1 4
Owner ID Number	1 1 7 1 8 1 5 1 9
Federal ID Number	[redacted]
EPA ID Number	

A — GENERAL INFO

Notification is required by Federal and State laws for all storage tanks that are operational or have been used to store regulated substances since January 1, 1974. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) and Indiana Code 329 IAC 9, as amended. Specific detailed instructions for the completion of this form may be found in the Underground Storage Tank Branch Guidance Manual (Rev. 11/95), on page 4 of this form or by contacting the UST Branch at the above address.

TYPE OF NOTIFICATION

THIS NOTIFICATION FORM PROVIDES INFORMATION FOR (CHECK ALL THAT APPLY):

- ○ A NEW FACILITY
- ○ A NEW OWNER
- ○ A NEW TANK
- ○ A NEW OPERATOR
- ○ A CHANGE OF OWNERSHIP
- ○ A SYSTEM UPGRADE
- ○ AN ADDRESS CHANGE
- ☒ OTHER CHANGE IN # OF TANKS
- ○ A TEMPORARY CLOSURE
- ○ A REQUEST FOR CLOSURE
- ○ A PERMANENT CLOSURE WITH CLOSURE REPORT

B — OWNER OF TANKS

OWNER OF TANKS

OWNER NAME: TOM WEINZAPFEL
MAILING ADDRESS: 2811 HARMONY WAY
CITY: EVANSVILLE STATE: IN
ZIP CODE: 47717-2210 TELEPHONE: (812)422-8138

OPERATOR OF FACILITY

OPERATOR NAME (IF SAME AS OWNER, MARK BOX HERE [ ]): DERSCH ENERGIES, INC
MAILING ADDRESS: 620 OAK ST.
CITY: Mt. CARMEL, IL
ZIP CODE: 62181-613 TELEPHONE: (618) 262 5181

C — TANK LOCATION

TANK/FACILITY LOCATION

FACILITY NAME (IF SAME AS OWNER, MARK BOX HERE [ ]): WESTSIDE SHELL
MAILING ADDRESS (IF SAME AS OWNER, MARK BOX HERE [ ]): 2801 Mt. VERNON AVE
LOCATION OF TANKS:
CITY: EVANSVILLE
ZIP CODE: 47712-112 COUNTY: VANDERBURGH

TYPE OF FACILITY/OWNER

TYPE OF OWNER (Please Check One)

- ☒ PRIVATE/BUSINESS
- ○ STATE GOVERNMENT
- ○ LOCAL GOVERNMENT
- ○ FEDERAL GOVERNMENT
- GSA FACILITY (ID#_____)
- ○ OTHER _____

EFFECTIVE DATE OF OWNERSHIP: ___ / ___ / ___

TYPE OF OPERATION (Please Check One)

- ☒ MOTOR VEHICLE FUEL DISPENSING STATION
- ○ COMMERCIAL
- ○ RESIDENTIAL
- ○ INDUSTRIAL
- ○ AGRICULTURE
- ○ OTHER

GIS COORDINATES: 23 SE 14, RANGE 11 WEST

D — CERTIFICATION

CONSULTANT/CONTRACTOR COMPLIANCE CERTIFICATION

OATH: I certify that the information concerning installation, upgrade, or closure provided in this notification is true and correct to the best of my knowledge.

NAME OF CONTRACTOR/CONSULTANT: MARK Hinderliter
NAME OF COMPANY: Hinderliter Const. & Maint. Inc
SIGNATURE OF CONTRACTOR (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED): Mark E Hinderliter
CERTIFICATION NUMBER: 97-KY-627521
DATE: 12 / 12 / 97

CONTACT AT TANK LOCATION

NAME OF CONTACT PERSON AT TANK LOCATION: JOHN DERSCH OR TOM DERSCH or Mike Newmiller
JOB TITLE: or Jim Simons, MGR
TELEPHONE NUMBER: (618) 722-8127 (618) 262-5181
NUMBER OF TANKS AT THIS LOCATION: 3
NUMBER OF PAGES ATTACHED TO THIS NOTIFICATION:

OWNER CERTIFICATION

OATH: I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

NAME AND TITLE OF OWNER OR AUTHORIZED REPRESENTATIVE: TOM WEINZAPFEL (OWNER)
SIGNATURE OF OWNER (IN INK - NO PHOTOCOPIES WILL BE ACCEPTED): Tom Weinzapfel
DATE: 12 / 11 / 97

STATE USE ONLY

RECEIVED
DEC 19 1997
IDEM OEP
UST SECTION

FACILITY NAME WESTSIDE SHELL FACILITY ID. _____ PAGE ____ OF ____

DESCRIPTION OF UNDERGROUND STORAGE TANK SYSTEM

E COMPLETE A COLUMN FOR EACH TANK. ATTACH ADDITIONAL SHEETS WHEN NUMBER OF TANKS EXCEEDS SIX.

GENERAL	SEQUENTIAL TANK NUMBER	1	2	3			
	OWNER-SPECIFIED TANK NUMBER	1	2	3			
	DATE INSTALLED	5/5/92	5/5/92	5/5/92	/ /	/ /	/ /
	CAPACITY (GALLONS)	7,892	7,829	7,829			
F TANK STATUS — COMPLETE ONLY ONE OF A, B, OR C.	A. CURRENTLY IN USE	⊗	⊗	⊗	○	○	○
	DATE BROUGHT INTO USE	5/7/92	5/7/92	5/7/92	/ /	/ /	/ /
	B. TEMPORARILY OUT OF USE	○	○	○	○	○	○
	DATE LAST USED	/ /	/ /	/ /	/ /	/ /	/ /
	C. PERMANENTLY OUT OF USE						
	DATE REMOVED FROM GROUND	/ /	/ /	/ /	/ /	/ /	/ /
	DATE FILLED IN-PLACE	/ /	/ /	/ /	/ /	/ /	/ /
A, B OR C MUST BE COMPLETED IF SECTIONS D OR E ARE SELECTED.	D. REQUESTING CLOSURE						
	TO BE REMOVED	○	○	○	○	○	○
	TO BE FILLED IN-PLACE	○	○	○	○	○	○
	E. CHANGE-IN-SERVICE						
	REGULATED TO UNREGULATED	○	○	○	○	○	○
	UNREGULATED TO REGULATED	○	○	○	○	○	○
G CONTENTS — SUBSTANCE CURRENTLY OR LAST STORED (COMPLETE ONLY ONE OF A, B, OR C)	A. PETROLEUM — DIESEL	○	○	○	○	○	○
	KEROSENE	○	○	○	○	○	○
	GASOLINE	⊗	⊗	⊗	○	○	○
	USED OIL	○	○	○	○	○	○
	OTHER (specify)						
	B. HAZARDOUS SUBSTANCE	○	○	○	○	○	○
	CERCLA SUBSTANCE or						
	Chemical Abstract Service Number						
	MIXTURE OF SUBSTANCES	○	○	○	○	○	○
	C. UNKNOWN	○	○	○	○	○	○
H CONSTRUCTION/PROTECTION — TANK CONSTRUCTION	STEEL	○	○	○	○	○	○
	CONCRETE	○	○	○	○	○	○
	FIBERGLASS/PLASTIC	⊗	⊗	⊗	○	○	○
	UNKNOWN	○	○	○	○	○	○
	OTHER (specify)						
INTERNAL PROTECTION	INTERIOR LINING	○	○	○	○	○	○
	NONE	○	○	○	○	○	○
	UNKNOWN	○	○	○	○	○	○
	OTHER (specify)	N/A	N/A	N/A			
EXTERNAL PROTECTION	CATHODIC	○	○	○	○	○	○
	PAINTED	○	○	○	○	○	○
	FIBERGLASS/PLASTIC	○	○	○	○	○	○
	NONE	○	○	○	○	○	○
	UNKNOWN	○	○	○	○	○	○
	OTHER (specify)	N/A	N/A	N/A			
I PIPING — TYPE	BARE STEEL	○	○	○	○	○	○
	GALVANIZED STEEL	○	○	○	○	○	○
	FIBERGLASS REINFORCED PLASTIC	⊗	⊗	⊗	○	○	○
	CATHODIC PROTECTION	○	○	○	○	○	○
	UNKNOWN	○	○	○	○	○	○
	OTHER (specify)						
METHOD	PRESSURIZED	⊗	⊗	⊗	○	○	○
	EUROPEAN SUCTION	○	○	○	○	○	○
	AMERICAN SUCTION	○	○	○	○	○	○

STATE FORM 45223 (REV. 2/97)

FACILITY NAME WESTSIDE SHELL FACILITY ID. _____ PAGE _____ OF _____

DESCRIPTION OF UNDERGROUND STORAGE TANK SYSTEMS (CONTINUED)

COMPLETE A COLUMN FOR EACH TANK. ATTACH ADDITIONAL SHEETS WHEN THE NUMBER OF TANKS EXCEEDS SIX.

	Sequential Tank Number						
J RELEASE DETECTION	Manual Tank Gauging	○	○	○	○	○	○
	Tank Tightness Testing With Inventory Controls	○	○	○	○	○	○
	Automatic Tank Gauging	●	●	●	○	○	○
	Vapor Monitoring	○	○	○	○	○	○
	Ground Water Monitoring	○	○	○	○	○	○
	Interstitial Monitoring Within a Secondary Barrier	○	○	○	○	○	○
	Interstitial Monitoring Within Secondary Containment	○	○	○	○	○	○
	Automatic Line Leak Detectors	●	●	●	○	○	○
	Line Tightness Testing	○	○	○	○	○	○
	Statistical Inventory Reconciliation (SIR)	○	○	○	○	○	○
	Another Method (Please specify below)	○	○	○	○	○	○
	_____	○	○	○	○	○	○
K CATHODIC	For Coated Steel Tanks with Cathodic Protection - Impressed Current	○	○	○	○	○	○
	Sacrificial Anodes	○	○	○	○	○	○
	For Coated Steel Piping with Cathodic Protection - Impressed Current	○	○	○	○	○	○
	Sacrificial Anodes	○	○	○	○	○	○
	Another Method (Please specify below)	○	○	○	○	○	○
	_____	○	○	○	○	○	○
L SPILL	Catchment Basins	●	●	●	○	○	○
	Automatic Shutoff Devices	●	●	●	○	○	○
	Overfill Alarms	○	○	○	○	○	○
	Ball Float Valves	○	○	○	○	○	○
	Another Method (Please specify below)	○	○	○	○	○	○
	_____	○	○	○	○	○	○
M CONTRACTOR	Indicate compliance specific to this installation upgrade, or closure — Installer is certified by the tank and piping manufacturer.	●	●	●	○	○	○
	Contractor is certified by the Office of the State Fire Marshal.	●	●	●	○	○	○
	Work inspected/certified by a registered professional engineer.	○	○	○	○	○	○
	Work inspected by the Office of the State Fire Marshal.	●	●	●	○	○	○
	All work has been completed.	●	●	●	○	○	○
	Another method of compliance was used (specify below).	○	○	○	○	○	○
	_____	○	○	○	○	○	○
	_____	○	○	○	○	○	○

CERTIFICATION OF FINANCIAL RESPONSIBILITY

N FINANCIAL

I have financial responsibility in accordance with Subtitle I Subpart H (Specify below).

- ● Self-Insurance
- ○ Insurance & Risk Retention Group Coverage
- ○ Trust Agreement
- ○ Guarantee
- ○ Surety Bond
- ○ Letter of Credit
- ○ Local Government - Bond Rating Test
- ○ Local Government - Financial Test
- ○ Local Government - Guarantee
- ○ Local Government - Fund

30 - DAY REQUEST FOR TANK CLOSURE

O CLOSURE REQUEST

To request a tank closure, mark the Request for Closure oval in Type of Notification in Section A, complete sections B, C, D, E, and mark D. REQUESTING CLOSURE in section F. Complete the remaining sections (G-N) and fill in the requested information below.

PROPOSED CONTRACTOR N/A

CONTRACTOR NAME

MAILING ADDRESS

CITY | STATE

ZIP CODE | TELEPHONE ( ) —

CONTACT PERSON | CERTIFICATION NUMBER

LUST INCIDENT INFORMATION

LUST INCIDENT NUMBER, IF APPLICABLE

DATE INCIDENT REPORTED

**NOTE: Any tank closures must be performed by persons certified by the Indiana State Fire Marshal. City/County Fire Departments, the Indiana State Fire Marshal, and IDEM's UST Section must be notified 14 days prior to closure. Please report to the Leaking Underground Storage Tank Section at (317) 308-3067 if signs of soil or groundwater contamination are observed.*

Indiana State Fire Marshal (317) 232-2222

Facility ID # 008924

State Form 49132 (9-98)

Underground Storage Tank Affidavit of Compliance

RECEIVED
NOV 16
IDEM, OER
UST SECTION

TANK REQUIREMENTS

LEAK DETECTION METHOD

- [X] Automatic Tank Gauge
- [ ] Statistical Inventory Reconciliation
- [ ] Vapor Monitoring System
- [ ] Groundwater Monitoring System (must be designed for leak detection)
- [ ] Inventory Control
- [ ] Tank Tightness Testing Frequency: _____
- [ ] Manual Tank Gauging
- [ ] Secondary Containment with Interstitial Monitoring
- [ ] Other method (be specific): _____

SPILL CONTAINMENT

- [X] Spill Bucket/Catchment Basin

OVERFILL EQUIPMENT

- [ ] Overfill Alarm
- [X] Automatic Shutoff/Drop Tube Device
- [ ] Ball Float Vent Valve

CORROSION PROTECTION

- [X] Fiberglass
- [ ] Galvanic Current System
- [ ] Factory Cathodically Protected Steel (example: STiP$_3$)
- [ ] Other type of tank construction (be specific): _____
- [ ] Impressed Current System
- [ ] Internal Liner Date Applied: _____

PIPING REQUIREMENTS

LEAK DETECTION METHOD

- [ ] Suction Piping
  - [ ] European Type
  - [ ] Line Tightness Test (every 3 years)
  - [ ] Vapor Monitoring System
  - [ ] Groundwater Monitoring System (must be designed for leak detection)
  - [ ] Statistical Inventory Reconciliation
  - [ ] Secondary Containment with Interstitial Monitoring
- [X] Pressurized Piping
  - [ ] Automatic Flow Restrictor
  - [X] Automatic Flow Shut-off
  - [ ] Continuous Alarm System
  - [ ] Annual Line Tightness Test
  - [ ] Vapor Monitoring System
  - [ ] Groundwater Monitoring System (must be designed for leak detection)
  - [ ] Statistical Inventory Reconciliation
  - [ ] Secondary Containment with Interstitial Monitoring
  - [ ] Other (be specific): _____

CORROSION PROTECTION

- [X] Fiberglass
- [ ] Steel
- [ ] Double walled piping system
- [ ] Other (be specific: example: enviroflex,etc.) _____
- [ ] Impressed Current System

(over)

UNDERGROUND STORAGE TANK INSPECTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Inspector's Name:	Matthew Hills
Date:	2/5/2016
Time In:	12:33 PM
Time Out:	2:36 PM
Inspection Type:	Initial

General Information

Facility Information

Facility Name	Xpress Pantry,
Facility Location	2801 MOUNT VERNON AVE Evansville , IN 477125821 , Vanderburgh County
Facility Mailing Information	,
Owner Information	
UST Operator Certificate [329 IAC 9-9]	Name: Brian Davenport Compliant with IDEM'S UST "A" Operator Training in accordance with 329 IAC 9. Certification Expiration Date: 3/6/2018

Operating Information

Facility Registration Number	8924
GPS Location Collected	○ Yes ◉ No ○ Previously Collected
Financial Assurance Financial Responsibility [329 IAC 9-8]	Unknown
Number of Registered Tanks	3
Number of Compartmented USTs	0

General Comments

Tank Information

Tank #	Contents	Status	Install Date
1	Gasoline	In Use	5/5/1992

ID	Dimensions	Capacity	Contents
1		8000	Gasoline

Corrosion Protection		Anode Test
Tank	Piping	
Fiberglass	Fiberglass	
Last Tank Corrosion Test	Last Piping Corrosion Test	
Release Detection		Spill Protection
Tank	Piping	

		Spill Bucket
Automatic Tank Gauge	Pressurized Piping Line Leak Detectors Annual Line Tightness Test LTT & LDT Passed 10/27/15	Overfill Protection Ball Float

Tank #	Contents	Status	Install Date
2	Gasoline	In Use	5/5/1992

ID	Dimensions	Capacity	Contents
2		8000	Gasoline

Corrosion Protection		Anode Test
Tank	Piping	
Fiberglass	Fiberglass	
Last Tank Corrosion Test	Last Piping Corrosion Test	

Release Detection		Spill Protection
Tank	Piping	Spill Bucket
Automatic Tank Gauge	Pressurized Piping Line Leak Detectors Annual Line Tightness Test LTT & LDT Passed 10/27/15	Overfill Protection Ball Float

Tank #	Contents	Status	Install Date
3	Gasoline	In Use	5/5/1992

ID	Dimensions	Capacity	Contents
3		8000	Gasoline

Corrosion Protection		Anode Test
Tank	Piping	
Fiberglass	Fiberglass	
Last Tank Corrosion Test	Last Piping Corrosion Test	

Release Detection		Spill Protection
Tank	Piping	Spill Bucket
Automatic Tank Gauge	Pressurized Piping Line Leak Detectors Annual Line Tightness Test LTT & LDT Passed 10/27/15	Overfill Protection Ball Float

Compliance Checklist
(Checked box indicates compliant at the time of this site inspection)

Notification Requirements **[329 IAC 9-2-2]** ☐ **State Form 45233 (R5/1-14)**	**Piping Corrosion Protection** **(Impressed Current) Inspected** **[329 IAC 9-2-1] & [329 IAC 9-3.1]**

	☐
Reporting and Record Keeping [329 IAC 9-3] ☐	**Spill Prevention [329 IAC 9-2-1] & [329 IAC 9-3.1]** ☐
Tanks Corrosion System Protected [329 IAC 9-2] ☐	**Overfill Device Present [329 IAC 9-2-1] & [329 IAC 9-3.1]** ☐
Tanks Corrosion Protection (Galvanic) Tested [329 IAC 9-2-1] ☐	**General Operating and Maintenance [329 IAC 3.1]** ☐
Tanks Corrosion Protection (Impressed Current) Inspected ☐	**Tanks/Piping Repairs Tested [329 IAC 9-3.1-4]** ☐
Tanks Interior Lining Inspected [329 IAC 9-2.1-1] ☐	**Secondary Containment [329 IAC 9-2-1] & [329 IAC 9-3.1]** ☐
Piping Corrosion System Protected [329 IAC 9-2] ☐	**Temporary Closure Requirements [329 IAC 9-6-5]** ☐
Piping Corrosion Protection (Galvanic) Tested [329 IAC 9-2-1] & [329 IAC 9-3.1] ☐	**Piping Release Detecting System [329 IAC 9-7-2] & [329 IAC 9-7-5]** ☐ **Automatic Line Leak Detector; and** ☐ **Annual Line Tightness Test**
Tank Release Detection System Performance Standards [329 IAC 9-7-2] & [329 IAC 9-7-4] ☐ **Product Inventory Control** ☐ **Manual Tank Gauging** ☐ **Tank Tightness Testing** ☐ **Automatic Tank Gauging** ☐ **Tank Interstitial Sensor (monthly)** ☐ **Statistical Inventory Reconciliation (SIR)** ☐ **Other Type of Release Detection**	**Tanks and Piping Monitored Periodically for Release [329 IAC 9-7-2] & [329 IAC 9-7-5]** ☐ **Monthly Tank Tests** ☐ **Monthly Piping Tests (or annual)** ☐ **In-line Leak Detectors (annual)** ☐ **Monthly Piping STP Sensor Tests**
Owner or Operator UST Operator Training Designation ○ "A" Operator Training Certificate of Completion ○ "B" Operator Training Certificate of Completion ○ "C" Operator Training Certificate of Completion	

Inspection Results/Action	
Inspection Results:	Compliant
Facility Status:	Active
Documents and Photos Comments:	
Written Summary of Inspection:	

UNDERGROUND STORAGE TANK INSPECTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Land Quality, UST Section
100 N. Senate Avenue
Indianapolis, IN 46204-2251
Telephone: (800) 451-6027 or (317) 234-4112

INSPECTION FINDINGS and FURTHER ACTION

◉ **NOTICE OF COMPLIANCE** ○ **NOTICE OF DEFICIENCIES**

This is to notify you that on 2/5/2016 a site inspection for Xpress Pantry, Facility Identification # 8924, located at 2801 MOUNT VERNON AVE Evansville IN, was conducted by the undersigned representative of the Indiana Department of Environmental Management (IDEM), Office of Land Quality, Underground Storage Tank (UST) Section.

Site Inspection Findings:

Based on all the information obtained during the site inspection, this facility :

◉ **DOES MEET** the equipment, operating, maintenance and financial responsibility requirements set forth in Indiana's **UST Rule 329 IAC 9.**

○ **DOES NOT MEET** the equipment, operating, maintenance and financial responsibility requirements set forth in Indiana's **UST Rule 329 IAC 9**
[see possible additional attachments].

○ Presented Potential Violations were observed and may require further investigation(s).
[see possible additional attachments].

○ Presented Other Compliance Needs and UST System Recommendations [additional comments may be attached]:

As a Facility Representative, I certify receipt of the Inspection Report of the indicated site inspection above and that significant details have been verbally communicated to the undersigned. In accordance with IC 13-14-5-4, matters not evident to IDEM at the time of the inspection, might not be included in either the verbal or written Inspection Report.

Facility Representative:

Printed Name	Signature	Contact Number	Email	Date
HARRY B				2/5/2016

UST Compliance Inspector:

Printed Name	Signature	Contact Number	Email	Date
Matthew Hills		812-454-8121	mhills@idem.IN.gov	2/5/2016

Compliance Assistance:

In addition, compliance education links and materials can be found by visiting IDEM's UST web site at http://www.in.gov/idem/landquality/2336.htm, Compliance and Technical Assistance Program (CTAP) at http://www.in.gov/idem/ctap/2328.htm and the United States Environmental Protection Underground Storage Tanks (OUST) at http://www.epa.gov/oust.

IDEM Office of Underground Storage Tanks (UST) Compliance Inspection Additional Comments

Date (*month, day, year*) 1-27-14	Time 11:00	County Vanderburgh
Facility Xpress Mart		
Location 2801 Mt. Vernon Ave., Evansville		
Facility ID 8924	Not regulated	
Inspected by Matt Hazes		

COMMENTS

Follow-up inspection,

- New Notification Form has been submitted.
- CSLD has been installed and is passing.

* Still need line tightness and leak detector testing.

Babiga Singh 1/27/2014	Matt Hazes 812-454-8121
Facility representative signature	Inspector signature

UST INSPECTION COMPLIANCE SUMMARY

State Form 49216 (R3 / 12-09)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Facility ID	8924
Date (month, day, year)	6-5-13
Time in 1:30	Time out 2:45

Facility name	Xpress Pantry	Owner name	Thomas H. Weinzapfel
Street address (number and street)	2801 Mt. Vernon Ave.	Street address (number and street)	2811 Harmony Way
City Evansville	State IN ZIP code 47712	City Evansville	State IN ZIP code 47720

REGISTERED FACILITY ☒ YES ☐ NO — FINANCIAL ASSURANCE ☐ YES ☐ NO

	1. TANK	Leak Test	2. TANK	Leak Test	3. TANK	Leak Test	4. TANK	Leak Test	5. TANK	Leak Test	
	☒		☒		☒		☐		☐		Gasoline
	☐		☐		☐		☐		☐		Diesel
	☐		☐		☐		☐		☐		K-1
	☐		☐		☐		☐		☐		Used Oil
	☐		☐		☐		☐		☐		Hazmat
STATUS											
	☒		☒		☒		☐		☐		In use
	☐		☐		☐		☐		☐		Temp.Closed (Compliant UST's)
	☐		☐		☐		☐		☐		Closed
	☒		☒		☒		☐		☐		Install date 5/5/92
	8K		8K		8K						Gallons
TANK TYPE		PIPING		PIPING		PIPING		PIPING		PIPING	
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Steel
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	Fiber
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Other
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double Walled
	☒		☒		☐		☐		☐		Spill Protection
	☒		☒		☐		☐		☐		Overfill protection
CORROSION PROTECTION											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	IMPRESSED
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	GALVANIC
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	OTHER p Exp T Exp
											ANODE TEST READINGS
OPERATION AND MAINTENANCE RECORD KEEPING - CP											
	P☐	P☐	P☐	P☐	P☐	P☐	P☐	P☐	P☐	P☐	PASSED
	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	FAILED
LEAK DETECTION											
	☐		☐		☐		☐		☐		Inventory & Tank Tightness
	☐		☐		☐		☐		☐		Manual Tank Gauging
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ATG
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	G. W. MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	VAPOR MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	SIR
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double walled / Interstitial Monitoring
		☒		☒		☒		☐		☐	Pressurized Piping
		☒		☒		☒		☐		☐	Line Leak Detectors Mech
		☒		☒		☒		☐		☐	Line Tightness 3-4-14
		☐		☐		☐		☐		☐	Suction Piping (American)
		☐		☐		☐		☐		☐	Suction Piping (European)
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	OTHER
OPERATION AND MAINTENANCE RECORD KEEPING - RD											
	P☒	P☒	P☒	P☒	P☒	P☒	P☐	P☐	P☐	P☐	PASSED
	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	F☐	FAILED

Failure to comply with any of the above record keeping or operation/maintenance requirements could mean loss of excess liability funding Indiana Code (IC) 13-23-8-4 (a) (1) (b).

Based on all the information obtained during the site inspection, this facility [DOES] [DOES NOT] meet the equipment, operating and maintenance requirements set forth in Indiana's Underground Storage Tank Rule 329 IAC 9

3-21-14 VL Sent 8/13

N Nolton	06/05/2013	Matt Hills	812-454-8121
FACILITY REPRESENTATIVE	DATE (month, day, year)	INSPECTOR	TELEPHONE NUMBER

COMMENTS: Probe out on ATG, inventory level to low to pass .2 gal/hr test on both Unleaded and Prem. Need line tightness & leak detector testing, tank tightness testing, update Notification Form and Financial Assurance documents. Follow-up 7-19-13 x

Pam Humble mhills@idem.in.gov

IDEM Office of Underground Storage Tanks (UST) Compliance Inspection Additional Comments

Date (*month, day, year*) 1-27-14	Time 11:00	County Vanderburgh
Facility Xpress Mart		
Location 2801 Mt. Vernon Ave., Evansville		
Facility ID 8924	Not regulated	
Inspected by Matt Hazls		

COMMENTS

Follow-up inspection,

- New Notification Form has been submitted
- CSLD has been installed and is passing.

* Still need line tightness and leak detector testing.

Line tightness & Leak detector testing Completed 3/4/14. Pass.

Gabriel Sinen 1/27/2014	Matt Hazls 812-454-8121
Facility representative signature	Inspector signature

UST INSPECTION COMPLIANCE SUMMARY

State Form 49216 (R3 / 12-09)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Facility ID	89241
Date (month, day, year)	6-5-13
Time in	1:30
Time out	

Facility name	Xpress Pantry	Owner name	Thomas H. Weinzapfel
Street address (number and street)	2801 Mt Vernon Ave.	Street address (number and street)	2811 Harmony Way
City	Evansville	City	Evansville
State	IN	State	IN
ZIP code	47712	ZIP code	47720

* REGISTERED FACILITY ☐ YES ☐ NO — * FINANCIAL ASSURANCE ☐ YES ☐ NO

	1.		2.		3.		4.		5.		
TANK		Leak Test	TANK	Leak Test	TANK	Leak Test	TANK	Leak Test	TANK	Leak Test	
☒			☒		☒		☐		☐		Gasoline
☐			☐		☐		☐		☐		Diesel
☐			☐		☐		☐		☐		K-1
☐			☐		☐		☐		☐		Used Oil
☐			☐		☐		☐		☐		Hazmat
STATUS											
☒			☒		☒		☐		☐		In use
☐			☐		☐		☐		☐		Temp.Closed (Compliant UST's)
☐			☐		☐		☐		☐		Closed
☒			☒		☒		☐		☐		Install date 5/5/92
8k			8k		8k						Gallons
TANK TYPE											
	PIPING		PIPING		PIPING		PIPING		PIPING		
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		Steel
☒	☒	☒	☒	☒	☒	☐	☐	☐	☐		Fiber
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		Other
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		Double Walled
☒		☒		☐		☐		☐			Spill Protection
☒		☒		☐		☐		☐			Overfill protection
CORROSION PROTECTION											
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		IMPRESSED
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		GALVANIC
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		NONE
☒	☒	☒	☒	☒	☒	☐	☐	☐	☐		OTHER p Exp T Exp
											ANODE TEST READINGS
OPERATION AND MAINTENANCE RECORD KEEPING # CP											
PO	PO	PO	PO	PO	PO	PO	PO	PO	PO		PASSED
FO	FO	FO	FO	FO	FO	FO	FO	FO	FO		FAILED
LEAK DETECTION											
☐		☐		☐		☐		☐			Inventory & Tank Tightness
☐		☐		☐		☐		☐			Manual Tank Gauging
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		ATG
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		G. W. MONITORING
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		VAPOR MONITORING
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		SIR
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		Double walled / Interstitial Monitoring
	☒		☒		☒		☐		☐		Pressurized Piping
	☐		☐		☐		☐		☐		Line Leak Detectors
	☐		☐		☐		☐		☐		Line Tightness
	☐		☐		☐		☐		☐		Suction Piping (American)
	☐		☐		☐		☐		☐		Suction Piping (European)
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		NONE
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		OTHER
OPERATION AND MAINTENANCE RECORD KEEPING # RD											
PO	PO	PO	PO	PO	PO	PO	PO	PO	PO		PASSED
FO	FO	FO	FO	FO	FO	FO	FO	FO	FO		FAILED

Failure to comply with any of the above record keeping or operation/maintenance requirements could mean loss of excess liability funding Indiana Code (IC) 13-23-8-4 (a) (1) (b).

Based on all the information obtained during the site inspection, this facility [DOES] [DOES NOT] meet the equipment, operating and maintenance requirements set forth in Indiana's Underground Storage Tank Rule 329 IAC 9

FACILITY REPRESENTATIVE	DATE (month, day, year)	INSPECTOR	TELEPHONE NUMBER
[signature]	06/05/2013	Matt Hills	812-454-8121

COMMENTS: Probe out on ATG, inventory level to low to pass .2 gal/hr test on both Unleaded and Prem. Need line tightness & leak detector testing, tank tightness testing, update Notification Form and Financial Assurance documents.

mhills@idem.in.gov

FID # 8924
County: Vanderburgh
Date: 6-5-13

Release Detection Compliance Measures Matrix

Instruction - To Determine Compliance Status of Measures #1-15
Work Thought he Worksheets "Commonly Used Release Detection. Prevention Methods"

Requirement Area	Measure	SOC Measure Rule 329 Citation	Unknown	Compliance		
				Yes	No	
Release detection Method Presence and Performance Requirements	1	Release detection method is present. [9-7-1(a)]			X	
	2	Release detection system is operating properly (i.e., able to detect a release from any portion of the system that routinely contains product). [9-7-1(a)1]	X			
	3	Release detection system meets the performance standards at 9-7-4 or 9-7-5. [9-8-1(a)(3)]	X			
	4	Implementing agency has been notified of suspected release as required. [9-7-1(b)]		X		
		☐ Non-passing results reported and resolved in accordance with implementing agency's directions. [9-7-1(b)]				
Release Detection Testing	5	Tanks and piping are monitored monthly for releases and records are available (must have records for the two most recent consecutive months and for 8 months of the last 12 months). [9-8-2(1), and 9-7-6(2)]	X			
Hazardous Substance UST Systems	6	Hazardous substance UST system leak detection meets the requirements (i.e. either secondarily contained or otherwise approved by the implementing agency). [9-7-3(2)]	X			
Temporary Closure	7	Release detection requirements are complied with (i.e. method present, operational, release investigated and reported as required) for UST systems containing product. [9-6-5(a)]	X			
Spill Prevention	8	Spill prevention device is present and functional. [9-2-1(3)(A)(ii), 9-2.1(d)]			X	
Overfill Prevention	9	Overfill prevention device is present and operational. [9-2-1(3)(A)(ii), 9-2.1-1(d)]			X	
Operation and Maintenance	10	Repaired tanks and piping were tightness tested within 30 days or repair completion (not required w/Internal Inspections or if monthly monitoring is in use). [9-3.1-4(b)(4)]	X			
Operation and Maintenance Corrosion Protection	11	CP systems were tested/Inspected within 6 months of repair of any cathodically protected UST system. [9-3.1-4(b)(5)]		X		
	12	Corrosion protection system is properly operated and maintained to provide continuous protection. [9-3.1-2(1)(2), 9-6-5(a)]		X		
Operation and Maintenance of Corrosion Protection	13	UST systems with impressed current cathodic protection are inspected every 60 days. [9-3.1-2(3)]		X		
	14	Lined tanks are inspected periodically and lining is in compliance. [9-1.1-1(b)(2)(b)]		X		
Tanks and Piping Corrosion Protection	15	Buried metal tanks and piping (which includes fittings, connections, etc.) is corrosion protected. [9-2-1(1), 9-2-1(2), 9-2.1-1(b), 9-2.1-1(c)]		X		

IDEM Office of Underground Storage Tanks (UST) Compliance Inspection Additional Comments

Date (*month, day, year*) 9-27-13	Time 9:30	County Vanderburgh
Facility 8924 - Xpress Mart		
Location 2801 Mt. Vernon Ave, Evansville 47712		
Facility ID 8924	Not regulated	
Inspected by Matt Hacks		

COMMENTS

Original inspection was conducted 6-5-13. A Violation letter was sent 8-12-13. Violation letter required the facility to do the following;

1. Conduct monthly leak detection - Need CSLD chip.
2. Have line and leak detector testing conducted.
3. Submit an updated Notification Form (SF 2445 223)
4. Provide proof of Financial Assurance.

Facility has not responded to Violation Letter. Will forward to Enforcement.

Amy Ault 9/27/13	Matt Hacks 812-454-8121
Facility representative signature	Inspector signature

UST INSPECTION COMPLIANCE SUMMARY

State Form 49216 (R3 / 12-09)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Facility ID	8924
Date (*month, day, year*)	1/6/2010
Time in 9:00	Time out 11:00

812-499-2003

Facility name	West Side Shell	Owner name	Tom Weinzapfel
Street address (*number and street*)	2801 Mt. Vernon Ave.	Street address (*number and street*)	2811 Harmony Way
City Evansville	State IN / ZIP code 47712	City Evansville	State IN / ZIP code 47720

REGISTERED FACILITY ☒ YES ☐ NO — FINANCIAL ASSURANCE ☐ YES ☐ NO

	1. TANK	Leak Test	2. TANK	Leak Test	3. TANK	Leak Test	4. TANK	Leak Test	5. TANK	Leak Test	
	☒		☒		☒		☐		☐		Gasoline
	☐		☐		☐		☐		☐		Diesel
	☐		☐		☐		☐		☐		K-1
	☐		☐		☐		☐		☐		Used Oil
	☐		☐		☐		☐		☐		Hazmat
STATUS											
	☐		☐		☐		☐		☐		In use
	☐		☐		☐		☐		☐		Temp.Closed (Compliant UST's)
	☐		☐		☐		☐		☐		Closed
	☐		☐		☐		☐		☐		Install date
	8,000		8,000		8,000						Gallons
TANK TYPE											
		PIPING		PIPING		PIPING		PIPING		PIPING	
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Steel
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	Fiber
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Other
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double Walled
	☒		☒		☒		☐		☐		Spill Protection
	☒		☒		☒		☐		☐		Overfill protection
CORROSION PROTECTION											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	IMPRESSED
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	GALVANIC
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	OTHER p Fib. T Fib.
											ANODE TEST READINGS
OPERATION AND MAINTENANCE RECORD KEEPING - OP											
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PASSED
	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO	FAILED
LEAK DETECTION											
	☐		☐		☐		☐		☐		Inventory & Tank Tightness
	☐		☐		☐		☐		☐		Manual Tank Gauging
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ATG - Removed ?
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	G. W. MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	VAPOR MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	SIR
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double walled / Interstitial Monitoring
		☒		☒		☒		☐		☐	Pressurized Piping
		☒		☒		☒		☐		☐	Line Leak Detectors
		☐		☐		☐		☐		☐	Line Tightness
		☐		☐		☐		☐		☐	Suction Piping (American)
		☐		☐		☐		☐		☐	Suction Piping (European)
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	OTHER
OPERATION AND MAINTENANCE RECORD KEEPING - RB											
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PASSED
	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO	FAILED

Failure to comply with any of the above record keeping or operation/maintenance requirements could mean loss of excess liability funding Indiana Code (IC) 13-23-8-4 (a) (1) (b).

Based on all the information obtained during the site inspection, this facility [DOES] [DOES NOT] meet the equipment, operating and maintenance requirements set forth in Indiana's Underground Storage Tank Rule 329 IAC 9

FACILITY REPRESENTATIVE	DATE (*month, day, year*)	INSPECTOR	TELEPHONE NUMBER
		Matt Hells	

COMMENTS: Facility is closed, dispensers have been removed. Tom Dersch is no longer running facility, has not been open since 2007-2008.

SPEC AUN 9-15-05 8924

INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT SF 49216 (R2/8-03)

Fac ID:

UST INSPECTION COMPLIANCE SUMMARY Date: 5-3-05 Time In: 8:30 Time Out: 11:00

Facility Name: West Side Shell Owner Name: Dersch Energies

Street Address: 2801 Mt. Vernon Ave Phone # Street Address: 629 Oak Street

City: Evansville State: IN Zip: City: Mt Carmel State: IL Zip: 62863

REGISTERED FACILITY ☒ YES ☐ NO FINANCIAL ASSURANCE ☐ YES ☐ NO

	1. TANK	Leak Test	2. TANK	Leak Test	3. TANK	Leak Test	4. TANK	Leak Test	5. TANK	Leak Test	
	☒		☒		☒		☐		☐		Gasoline
	☐		☐		☐		☐		☐		Diesel
	☐		☐		☐		☐		☐		K-1
	☐		☐		☐		☐		☐		Used Oil
	☐		☐		☐		☐		☐		Hazmat
STATUS											
	☒		☒		☒		☐		☐		In use
	☐		☐		☐		☐		☐		Temp.Closed (Compliant UST's)
	☐		☐		☐		☐		☐		Closed
	☒		☒		☒		☐		☐		Install date 1992
											Gallons
TANK TYPE											
		PIPING		PIPING		PIPING		PIPING		PIPING	
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Steel
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	Fiber
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Other
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double Walled
	☒		☒		☒		☐		☐		Spill Protection Basin
	☒		☒		☒		☐		☐		Overfill protection Bund Shut
CORROSION PROTECTION											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	IMPRESSED
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	GALVANIC
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	OTHER p Fiber T Fiber
											ANODE TEST READINGS
OPERATION AND MAINTENANCE RECORD KEEPING - CP											
	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☐ F☐	P☐ F☐	P☐ F☐	P☐ F☐	PASSED / FAILED
LEAK DETECTION											
	☐		☐		☐		☐		☐		Inventory & Tank Tightness
	☐		☐		☐		☐		☐		Manual Tank Gauging
	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	ATG Passed 5-3-05
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	G. W. MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	VAPOR MONITORING
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	SIR
Well Head Protection Area Requirement 329 IAC 9-2-1.1											
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	Double walled / Interstitial Monitoring
		☒		☒		☒		☐		☐	Pressurized Piping
		☒		☒		☒		☐		☐	Line Leak Detectors R. Jacket
		☐		☐		☐		☐		☐	Line Tightness
		☐		☐		☐		☐		☐	Suction Piping (American)
		☐		☐		☐		☐		☐	Suction Piping (European)
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	NONE
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	OTHER
OPERATION AND MAINTENANCE RECORD KEEPING - RD											
	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☒ F☐	P☐ F☐	P☐ F☐	P☐ F☐	P☐ F☐	PASSED / FAILED

Failure to comply with any of the above record keeping or operation/maintenance requirements could mean loss of excess liability funding Indiana Code (IC) 13-23-8-4 (a) (1) (b).

Based on all the information obtained during the site inspection, this facility [DOES] [DOES NOT] meet the equipment, operating and maintenance requirements set forth in Indiana's Underground Storage Tank Rule 329 IAC 9

FACILITY REPRESENTATIVE	DATE	INSPECTOR	PHONE NUMBER
[signature]	5-3-05	Jim Pankey	(812) 380-2312

COMMENTS: No issues at this time all was fine.

DRSEURO 5-10-05

CSLD TEST RESULTS
- - - - - - - - - - - - - -
JAN 16. 2016 1:22 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: JAN 16. 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: JAN 16. 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: JAN 16. 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - - -
FEB 19. 2016 12:39 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: FEB 19. 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: FEB 19. 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: FEB 19. 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - - -
MAR 28. 2014 8:00 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: MAR 28. 2014 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: MAR 28. 2014 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: MAR 28. 2014 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - - -
APR 24. 2014 1:14 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: APR 24. 2014 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: APR 24. 2014 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: APR 24. 2014 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - - -
MAY 25. 2016 9:10 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: MAY 25. 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: MAY 25. 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: MAY 25. 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - - -
JUN 15. 2016 9:56 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: JUN 15. 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: JUN 15. 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: JUN 15. 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
JUL 14, 2016 9:25 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
AUG 25, 2016 9:22 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
SEP 22, 2016 7:18 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
OCT 28, 2016 11:33 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
NOV 29, 2016 8:08 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
DEC 28, 2016 11:04 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
JUL 14, 2016 9:25 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: JUL 14, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
AUG 25, 2016 9:22 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: AUG 25, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
SEP 22, 2016 7:18 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: SEP 22, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
OCT 28, 2016 11:33 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: OCT 28, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
NOV 29, 2016 8:08 PM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: NOV 29, 2016 PASS

CSLD TEST RESULTS
- - - - - - - - - - - - -
DEC 28, 2016 11:04 AM

T 1:NOLEAD
PROBE SERIAL NUM 157109

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

T 2:PLUS
PROBE SERIAL NUM 157107

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

T 3:PREMIUM
PROBE SERIAL NUM 157108

0.2 GAL/HR TEST
PER: DEC 28, 2016 PASS

JORGENSEN PETROLEUM MAINTENANCE, INC.
1709 A N. Fares Ave. • Evansville, Indiana 47711
(812) 424-0014 • Fax (812) 424-0645 • Toll Free 866-6JPMINC (657-6462)

AFFILIATE PEI

0329

EZY CHEK
LEAK DETECTOR TEST RESULTS

DATE 3-4-14

TEST SITE X PRESS PANTRY - SONTAG

ADDRESS 2601 UPER MT VERNON RD

EVANSVILLE IN 47712

TECH NAME & CERT # CHIEF DECKER 584645

TEST REPORT INDICATES

Type of Leak Detector Tested

	Make	Model Type	Serial Number
REG	RED JACKET	FXIV	3999
PLUS	RED JACKET	FXIV	0647
PREMIUM	RED JACKET	FXIV	14004

	Pump Number	Metering Pressure	Functional Element Holding PSI	Resiliency	Test Leak Rate ML / Min	Opening Time	PASS/FAIL
REG	1	26	21	90	189	3	PASS
PLUS	2	27	17	90	189	3	PASS
PREMIUM	3	24	22	90	189	3	PASS
	4						
	5						
	6						
	7						
	8						

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JORGENSEN PETROLEUM MAINTENANCE, INC.

1709 A N. Fares Ave. • Evansville, Indiana 47711
(812) 424-0014 • Fax (812) 424-0645 • Toll Free 866-6JPMINC (657-6462)

AFFILIATE PEI

EZY CHEK SYSTEMS
PRODUCT LINE TESTER DATA SHEET

0977

DATE OF TEST 3-4-14 **TECH NAME & #** CLITT DECKER 584645

LOCATION NAME X PRESS PANTRY - SONTAG

ADDRESS 2601 UPER MT VERNON RD. EVANSVILLE IN 47712

CONTACT PERSON / TELE

APPLIED PRESSURE 50 PSI

	M/T	TIME	DATA	-/+	GPL (.0037)	RES	GPH	M/T	TIME	DATA	-/+	GPL (.0037)	RES	GPH
REG	M	1:50	78	0	.0037	0	0							
	I	2:05	78	0	.0037	0	0							
	I	2:20	78	0	.0037	0	0 PASS							
PLUS	M	2:45	76	0	.0037	0	0							
	I	3:00	75	-1	.0037	.0037	.0148							
	I	3:15	74	-1	.0037	.0037	.0148 PASS							
PREMIUM	M	3:50	69	0	.0037	0	0							
	I	4:05	69	0	.0037	0	0							
	I	4:20	69	0	.0037	0	0 PASS							

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Invoice # A 004625

Midwest Tank Testing

AN ENVIRONMENTAL COMPLIANCE COMPANY
PO Box 491
Beverly Shores, IN 46301
(800) 975-1436 support@midwesttanktesting.com

Location/FID#: XPress Pantry / 89241
Address: 2801 Mt Vernon Ave
City: Evansville
State/Zip: IN / 47712
Phone: 812-602 5512
Email:
State Inspector:

Date: 10-27-15

Main Office Information:
Company:
Contact:
Address:
City, State Zip
Phone/Email

Service Order

Services Performed:	Qty	Cost Per	Total
☒ **Product Line Tightness & Leak Detector Test**	3		300.00
☐ **Truck Stop Diesel 3" Line Tightness Test**			
☐ **Tank Tightness Test**			
☐ **Mechanical Leak Detector Replacement**			
☐ **Leak Detector Test Only**			
☐ **Cathodic Protection - Sacrificial - Impressed - SS Flex**			
☐ **Stage II Vapor Recovery Test / Decay / A/L Nozzle Test**			
☐ **Stage II Vapor Recovery Test Including Wet/Dry Blockage**			
☐ **Functionality / Continuity Test**			
☐ **Emergency Impact Value Test / Sump Sensor Test**			
☐ **Pin Point Helium Test**			
☐ **Parts Replaced** Item:			
☐ **Parts Replaced** Item:			
☐ **Labor** Hours: 1/2 Hours:			
☐ **Additional Services**			
☐ **Site Minimum Charge**			
☐ **Mileage**			
☐ **Mobilization** Per Mile: $ # Miles:			
☐ **Other**			
		Total	300.00

Comments: Reg, Mid, + Prem Lines + Leak Detectors Passed

Pd Cash

Original documents will follow electronically or via the mail.
We appreciate your business.

Technician Ryan Hartman

Technician Signature

Customer Signature

Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY
209 S. Calumet Rd. Suite 4
Chesterton, IN 46304

EZY CHEK SYSTEMS
PRODUCT LINE TEST
FINAL REPORT

TEST DATE	12/08/16
INVOICE	COLLECTED

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City	Chesterton, IN 46304
Phone	800-975-1436

Test Location Information	
PC # & WO #	
Name	PHILLIPS 66
Address	2801 MT VERNON AVE
City	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Technican Information	
Name	Ryan Hartman
Cert #	02-6669
Applied Pressure	50 PSI

PRODUCT LINE TEST
FINAL REPORT

	Product Type	Result
#1	REGULAR	PASS
#2	MID	FAIL
#3	PREMIUM	FAIL
#4		
#5		
#6		

ATG: Was Reviewed and found to be functioning properly.	N/A
Emergency Impact Valves: Tested and found to be working properly.	N/A
E-Stop: Tested and found to be working properly.	N/A
Sump Sensors: Tested and found to be working properly.	N/A
Interstitial Sensors: Tested and found to be working properly.	N/A

Comments/Recommendations:

Midwest Tank Testing
ENVIRONMENTAL COMPLIANCE COMPANY

EZY CHEK SYSTEMS
PRODUCT LINE TESTER
DATA SHEET

TEST DATE	12/08/16

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City	Chesterton, IN 46304
Phone	800-975-1436

Test Location Information	
Name & FID	PHILLIPS 66
Address	2801 MT VERNON AVE
City	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Technican Information	
Name	Ryan Hartman
Cert #	02-6669

Applied Pressure	50 PSI

#1 Product Type: REGULAR

TIME	DATA	-/+	GPL	RES	GPH
8:30	70	0	0.0037	0.0000	0.0000
8:45	67	-3	0.0037	-0.0111	-0.0444
9:00	64	-3	0.0037	-0.0111	-0.0444
9:15	61	-3	0.0037	-0.0111	-0.0444
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: PASS

#2 Product Type: MID

TIME	DATA	-/+	GPL	RES	GPH
8:30	90	0	0.0037	0.0000	0.0000
8:31	60	-30	0.0037	-1.6650	-6.6600
8:32	30	-30	0.0037	-1.6650	-6.6600
8:33	0	0	0.0037	-1.6650	-6.6600
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: FAIL

#3 Product Type: PREMIUM

TIME	DATA	-/+	GPL	RES	GPH
8:30	90	0	0.0037	0.0000	0.0000
8:45	74	-16	0.0037	-0.0592	-0.2368
9:00	58	-16	0.0037	-0.0592	-0.2368
9:15	42	-16	0.0037	-0.0592	-0.2368
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: FAIL

#4 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

#5 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

#6 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

Midwest Tank Testing
ENVIRONMENTAL COMPLIANCE COMPANY

EZY CHEK SYSTEMS
LEAK DETECTOR TESTER
DATA SHEET

TEST DATE	12/8/2016
TIME AND WEATHER	8:00-13:00/33 SUNNY
INVOICE	COLLECTED

Test Location Information	
Name and FID #	PHILLIPS 66
PC # and WO #	
Address	2801 MT VERNON AVE
City/State/Zip	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City/State/Zip	Chesterton, IN 46304
Phone	800-975-1436

Technican Information	
Name	Ryan Hartman
Cert #	02-6669

TYPE OF LEAK DETECTOR

PUMP #	PRODUCT	MODEL	SERIAL # (If Legible)
1	REGULAR	FX1V	N/A
2	MID	FX1V	N/A
3	PREMIUM	FX1V	N/A
4			
5			
6			
7			
8			

PUMP #	Product Type	Metering Pressure	Functional Element Holding PSI	Resiliency	Test Leak Rate ML/MIN	Opening Time	Pass/Fail
1	REGULAR	27	21	100	189ml	2	PASS
2	MID	27	6	50	189ml	N/A	FAIL
3	PREMIUM	25	23	1100	189ml	9	PASS
4					189ml		
5					189ml		
6					189ml		
7					189ml		
8					189ml		

Midwest Tank Testing
ENVIRONMENTAL COMPLIANCE COMPANY
O Box 491 Beverly
Shore, IN 46301

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

FINAL REPORT

TEST DATE	12/8/2016
INVOICE	COLLECTED
Temp and Time	33 SUNNY/8:00-13:00
Location	PHILLIPS 66
Address	2801 MT VERNON AVE
City/State/Zip	EVANSVILLE, IN 47712
Location Contact	
Location Phone	812-602-5512
Depth of Groundwater Determined:	UNDETERMINED
By:	MEASURING STICK
Where:	NO WELL

PC # & WO #	
TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	PREMIUM
PBS # (NEW YORK)	
TANK #	3

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS **TIGHT TANK**
THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

PASS **ULLAGE (DRY) PORTION OF LEAK**
THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

PASS **BELOW PRODUCT LEVEL (WET) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	CHECK
Water Instrusion	
Not Applicable	

Operator Information

Print Name	Ryan Hartman	Certification #	02-6669
Sign Name	Ryan Hartman	Expiration Date	9/3/17
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	209 S. Calumet Rd. Suite 4		
City/State/Zip	Chesterton, IN 46304		

NEW YORK STATE REQUIREMENT: A DIAGRAM OF THE TANK SYSTEM MUST BE SUBMITTED TO THE STATE WITH THIS REPORT

EQUIPMENT SERIAL NUMBERS AND CALIBRATION EXPIRATION DATES:

	Serial Number	Calibration Expiration Date
IN-TANK MICROPHONE	M1337018	January-17
ACOUSTIC SIGNAL PROCESSOR	E1305007	January-17
PRESSURE SENSOR	34074708	January-17
WATER SENSOR DISPLAY	9033	January-17
WATER SENSOR PROBE	P1104227	January-17

COMMENTS / RECOMMENDATIONS:

Midwest Tank Testing
ENVIRONMENTAL COMPLIANCE COMPANY

TANK PRESSURE CALCULATION & WATER SENSOR CALIBRATION

DATA SHEET

Test Date	12/8/2016
Temp	33 SUNNY
Time	8:00-13:00
Location & FID #	PHILLIPS 66
Address	2801 MT VERNON AVE
City/State/Zip	EVANSVILLE, IN 47712
Location Contact	
Location Phone	812-602-5512
Depth of Groundwater Determined:	UNDETERMINED
By:	MEASURING STICK
Where:	NO WELL

TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	PREMIUM
PBS # (NEW YORK)	
TANK #	3

PRESSURE SENSOR CALCULATION

20.00 INCHES OF PRODUCT	x	0.026 WEIGHT OF PRODUCT	=	0.520	PSI (1)
2.00 INCHES OF WATER IN TANK	x	.036	=	0.072	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.592	PSI (3)
0.00 INCHES OF WATER OUTSIDE TANK	x	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.592	+/-PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	0.500	+/-PSI (7)

ACOUSTIC TEST TIME

	Time	Pressure
Baseline Background:	10:30 AM	0.0
Blower Started:	10:32 AM	0.0
Test Pressure Reached:	11:02 AM	0.576
Blower Turned Off:	11:02 AM	0.576
Test Began:	11:03 AM	0.574
Test Ended:	11:05 AM	0.571

Equipment Calibration due date and serial numbers

	Serial Number	Callibration Due Date
In-Tank Microphone	M1337018	January-17
Acoustic Signal Processor	E1305007	January-17
Pressure Sensor	34074708	January-17
Water Sensor Display	9033	January-17
Water Sensor Probe	P1104227	January-17

WATER SENSOR CALIBRATION

	Cal #1	Cal #2	Cal #3
Added:	120	120	130

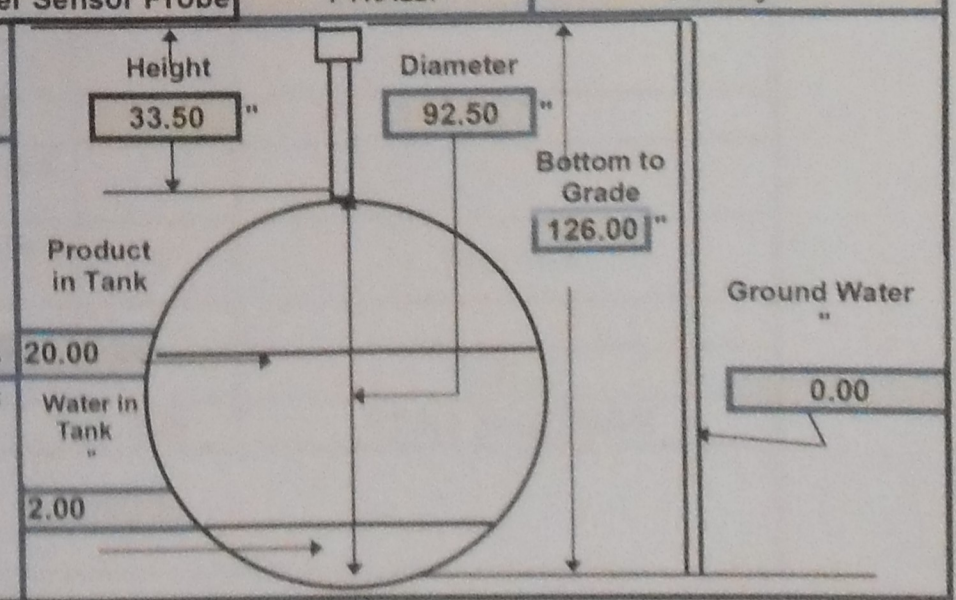
Average: 123

Calculation for Test Period:

123 (Avg. Cal.) ÷ 3780 = 0.033 ("A" Factor) ÷ .05 = 0.651 x 60 Min. = 39 minutes (Time of Test)

Water Intrusion Test Period

Began: 11:20 AM
Ended: 11:59 AM



SITE INSPECTION

	301 MT VERNON AVE, EVANSVILLE, IN 47712	Date: 8-Dec-16	Midwest Tank Testing 800.975.1436 ryan@midwesttanktesting.com
	Criteria	**Y / N / NA**	**Comments**
1	**Fill Port Plates** color coded properly, caps intact.	Y	
2	**Regular Fill Port/ Sump** free of debris and liquids, drain valve ok	Y	
3	**Regular Vapor Port/Sump** free of debris and liquids, valve ok	Y	
4	**Premium Fill Port/Sump** free of debris and liquids, drain valve ok	Y	
5	**Premium Vapor Port/Sump** free of debris and liquids, valve ok	Y	
6	**Diesel Fill Port/Sump** free of debris and liquids, drain valve ok		
7	**Diesel Vapor Port/Sump** free of debris and liquids	-	
8	**MID Fill Port/Sump** free of debris and liquids, drain valve ok		3" WATER & FUEL
9	**MID Vapor Port/Sump** free of debris and liquids, valve ok	Y	
10	**REGULAR STP- type of STP and type of Leak detection equip.**		RED JACKET/FX1V
11	**Premium STP - type of STP and type of Leak detection equip.**		RED JACKET/FX1V
12	**Diesel STP - type of STP and type of Leak detection equip.**		
13	**MID STP - type of STP and type Leak Detection equip.**		RED JACKET/FX1V
14	**Regular Sump Containment**, present, free of debris and liquids		NO CONTAINMENT
15	**Premium Sump Containment,** present, free of debris and liquids		NO CONTAINMENT
16	**Diesel Sump Containment,** present, free of debris and liquids		
17	**MID Sump Containment,** present, free of debris and liquids		NO CONTAINMENT
18	**Dispenser 1/2 Under dispenser containment, Present or NOT** free and clear of debris and liquid. Condition of Nozzles and hoses.		NO CONTAINMENT
19	**Dispenser 3/4 Under dispenser containment Present or NOT,** free and clear of debris and liquid. Condition of nozzles and hoses.		NO CONTAINMENT
20	**Dispenser 5/6 Under dispenser containment Present or NOT,** free and clear of debris and liquid. Condition of nozzles and hoses.		NO CONTAINMENT
21	**Dispenser 7/8 Under dispenser containment Present or NOT,** free and clear of debris and liquid. Condition of nozzles and hoses.		NO CONTAINMENT
22	**Dispenser 9/10 Under dispenser containment Present or NOT** free and clear of debris and liquid. Condition of nozzles and hoses.		
23	**Dispenser 11/12 Under dispenser containment Present / NOT** free and clear of debris and liquid. Condition of nozzles and hoses.		
24	**Emergency Shear Valves under Dispensers are operational**	Y	
25	Is there an **Emergency Shutoff** Present		
26	Does site contain **Sump Sensors**, and are they operational?	-	
27	Does site contain **Interstitial Sensors**, and are they operational?	-	
28	If **Above Ground Tank (AST)** present on site is area around tank clean and free of debris with no evidence of leakage	-	
29	Graduated **"Stick"** present and on-site and readily available	-	
30	Are the onsite **Ground Monitoring wells** secured in place with lids bolted down	-	
31	**Electronic Tank Gauging,** operational with no signs or alarms, and able to generate printable report. **ATG caps secure in ground.**	Y	TLS 350
32	**Cathodic Protection Rectifier** operational and presently operating	-	
33	**Overall cleanliness of Station**		GOOD
	Technician initials:	RH	RYAN HARTMAN

Additional Comments:

Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY
209 S Calumet Rd
Chesterton, IN 46304

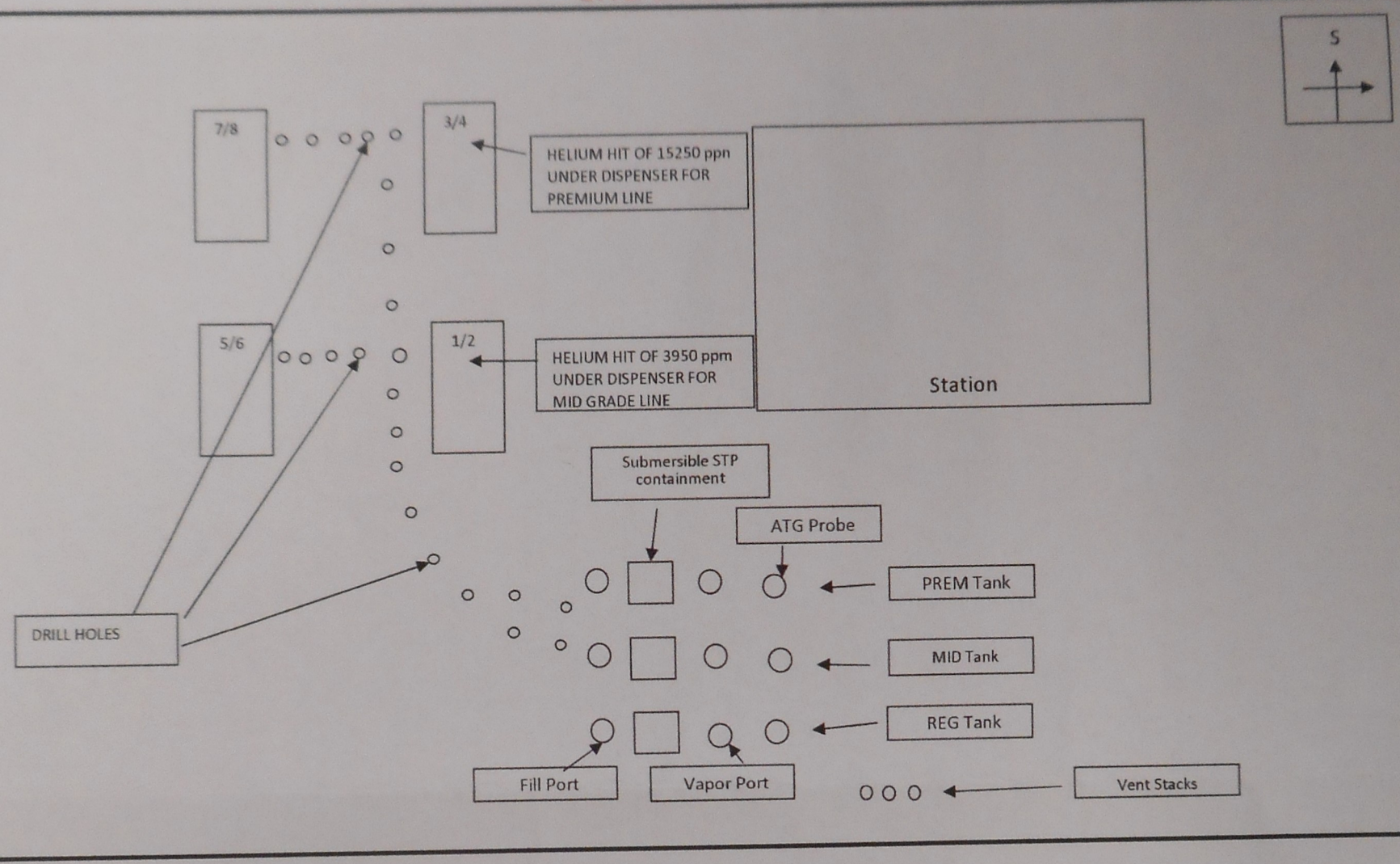
SITE DIAGRAM

TEST DATE	12/12/2016

Test Location Information	
Name and FID #	PHILLIPS 66
PC # and WO #	
Address	2801 MT VERNON AVE
City/State/Zip	EVANSVILLE, IN 47712
Phone	812-602-5512
Contact	

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S Calumet Rd
City/State/Zip	Chesterton, IN 46304
Phone	800-975-1436
Technican Information	
Name	Ryan Hartman
Cert #	02-6669

SITE DIAGRAM



Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY
209 S. Calumet Rd. Suite 4
Chesterton, IN 46304

EZY CHEK SYSTEMS
PRODUCT LINE TEST
FINAL REPORT

TEST DATE	12/28/16
INVOICE	COLLECTED

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City	Chesterton, IN 46304
Phone	800-975-1436

Test Location Information	
PC # & WO #	
Name	PHILLIPS 66
Address	2801 MT VERNON AVE
City	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Technican Information	
Name	Ryan Hartman
Cert #	02-6669
Applied Pressure	50 PSI

PRODUCT LINE TEST
FINAL REPORT

	Product Type	Result
#1	PREMIUM	PASS
#2	MID	FAIL
#3		
#4		
#5		
#6		

ATG: Was Reviewed and found to be functioning properly.	N/A
Emergency Impact Valves: Tested and found to be working properly.	N/A
E-Stop: Tested and found to be working properly.	N/A
Sump Sensors: Tested and found to be working properly.	N/A
Interstitial Sensors: Tested and found to be working properly.	N/A

Comments/Recommendations:

Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY
209 S. Calumet Rd. Suite 4
Chesterton, IN 46304

EZY CHEK SYSTEMS
PRODUCT LINE TEST
FINAL REPORT

TEST DATE	1/23/17
INVOICE	COLLECTED

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City	Chesterton, IN 46304
Phone	800-975-1436

Test Location Information	
PC # & WO #	
Name	PHILLIPS 66
Address	2801 MT VERNON AVE
City	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Technican Information	
Name	Ryan Hartman
Cert #	02-6669
Applied Pressure	50 PSI

PRODUCT LINE TEST
FINAL REPORT

	Product Type	Result
#1	REGULAR	PASS
#2	MID	PASS
#3	PREMIUM	PASS
#4		
#5		
#6		

ATG: Was Reviewed and found to be functioning properly.	N/A
Emergency Impact Valves: Tested and found to be working properly.	N/A
E-Stop: Tested and found to be working properly.	N/A
Sump Sensors: Tested and found to be working properly.	N/A
Interstitial Sensors: Tested and found to be working properly.	N/A

Comments/Recommendations:

Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY

EZY CHEK SYSTEMS
PRODUCT LINE TESTER
DATA SHEET

TEST DATE	1/23/17

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City	Chesterton, IN 46304
Phone	800-975-1436

Test Location Information	
Name & FID	PHILLIPS 66
Address	2801 MT VERNON AVE
City	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Technican Information	
Name	Ryan Hartman
Cert #	02-6669

Applied Pressure	50 PSI

#1 Product Type: REGULAR

TIME	DATA	-/+	GPL	RES	GPH
10:15	70	0	0.0037	0.0000	0.0000
10:30	67	-3	0.0037	-0.0111	-0.0444
10:45	64	-3	0.0037	-0.0111	-0.0444
11:00	61	-3	0.0037	-0.0111	-0.0444
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: PASS

#2 Product Type: MID

TIME	DATA	-/+	GPL	RES	GPH
10:15	78	0	0.0037	0.0000	0.0000
10:30	76	-2	0.0037	-0.0074	-0.0296
10:45	75	-1	0.0037	-0.0037	-0.0148
11:00	74	-1	0.0037	-0.0037	-0.0148
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: PASS

#3 Product Type: PREMIUM

TIME	DATA	-/+	GPL	RES	GPH
10:15	70	0	0.0037	0.0000	0.0000
10:30	67	-3	0.0037	-0.0111	-0.0444
10:45	64	-3	0.0037	-0.0111	-0.0444
11:00	61	-3	0.0037	-0.0111	-0.0444
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT: PASS

#4 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

#5 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

#6 Product Type:

TIME	DATA	-/+	GPL	RES	GPH
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000
		0	0.0037	0.0000	0.0000

FINAL RESULT:

Midwest Tank Testing
AN ENVIRONMENTAL COMPLIANCE COMPANY

EZY CHEK SYSTEMS
LEAK DETECTOR TESTER
DATA SHEET

TEST DATE	1/23/17
TIME AND WEATHER	10:00-13:00/37 CLOUDY
INVOICE	COLLECTED

Test Location Information	
Name and FID #	PHILLIPS 66
PC # and WO #	
Address	2801 MT VERNON AVE
City/State/Zip	EVANSVILLE, IN 47712
Phone	802-602-5512
Contact	

Testing Company Information	
Name	Midwest Tank Testing
Address	209 S. Calumet Rd. Suite 4
City/State/Zip	Chesterton, IN 46304
Phone	800-975-1436
Technican Information	
Name	Ryan Hartman
Cert #	02-6669

TYPE OF LEAK DETECTOR

PUMP #	PRODUCT	MODEL	SERIAL # (If Legible)
1	REGULAR	FX1V	N/A
2	MID	FX1V	N/A
3	PREMIUM	FX1V	N/A
4			
5			
6			
7			
8			

PUMP #	Product Type	Metering Pressure	Functional Element Holding PSI	Resiliency	Test Leak Rate ML/MIN	Opening Time	Pass/Fail
1	REGULAR	27	21	100	**189ml**	2	PASS
2	MID				**189ml**		N/A
3	PREMIUM	25	23	1100	**189ml**	9	PASS
4					**189ml**		
5					**189ml**		
6					**189ml**		
7					**189ml**		
8					**189ml**		

APPENDIX C

Previous Investigations
(Not Applicable)

APPENDIX D

Release Notification Forms and ISC Request

LEAKING UNDERGROUND STORAGE TANK (UST) INITIAL INCIDENT REPORT

State Form 54487 (R / 5-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
LEAKING UNDERGROUND STORAGE TANK SECTION

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
LEAKING UNDERGROUND STORAGE TANK SECTION
100 N. Senate Ave., IGCN 1101
Indianapolis, IN 46204-2251
Telephone: (317) 232-8900; Fax number: (317) 234-0428
E-mail: LeakingUST@idem.in.gov

INSTRUCTIONS:

1. *In accordance with 329 IAC 9-4 and 9-5, owners and operators must report all suspected and confirmed releases within twenty-four (24) hours of discovery. The UST owner, operator or representative should fill out the form completely and submit it to IDEM along with a copy of the current UST Notification Form.*
2. *Complete one report for each release or spill (source area).*
3. *Unless corrective action is initiated in accordance with 329 IAC 9-5, the owner and operator shall immediately investigate and confirm all suspected releases within seven (7) days in accordance with 329 IAC 9-4-3.*
4. *For additional guidance of the "Source and Cause" section, go the* **www.epa.gov/oust/fedlaws/final-pub-rec-gls-011907.pdf**.
5. *E-mail completed form to LeakingUST@idem.IN.gov or fax to (317) 234-0428.*

Facility ID Number 8924

INCIDENT/PRIORITY INFORMATION

IDEM USE ONLY	PRIORITY			
	☐ Low	☐ Medium	☐ High	☐ Unknown
Incident Number				

REPORTING/FACILITY/OWNER/OPERATOR INFORMATION

DATE *(month, day, year)*		TYPE		REPORTED VIA		
Reported 12 / 13 / 2016	Discovered 12 / 12 / 2016	☑ Confirmed	☐ Suspected	☐ Fax Number	☑ E-mail	☐ Telephone Number

Reporter: Contact/Title Troy Smith/ President ☑ Consultant		Facility: Contact/Title Paul Singh/ Site Operator	
Company IWM Consulting Group LLC		Facility Name Quick Shop	
Street Address *(number and street)* 7428 Rockville Road		Street Address *(number and street)* 2801 Mount Vernon Road	
City/State/ZIP code Indianapolis/IN/46214	Telephone Number (317) 347-1111	City/State/ZIP code Evansville/IN/47712	Telephone Number (812) 774-0946
E-mail Address tsmith@iwmconsult.com		Existing Environmental Restrictive Covenant On Property ☐ Yes ☑ No	

UST Owner: Contact/Title Paul Singh/Site Operator		UST Property Owner: Contact/Title Varinder Sahi/President	
Company S&P Petroleum Inc.		Company Twin Brothers Investments, LLC	
Street Address *(number and street)* 2801 Mount Vernon Avenue		Street Address *(number and street)* 435 Virginia Ave., Suite 707	
City/State/ZIP code Evansville/IN/47712	Telephone Number (812) 774-0946	City/State/ZIP code Indianapolis/IN/46203	Telephone Number (317) 430-3434
E-mail Address aps4590@gmail.com		E-mail Address vsahi@sbcglobal.net	
Financial Assurance Mechanism 13. State Agency Exemption		Certificate of Financial Assurance (COFA) Number (when applicable)	Property Owner Notified of Release ☑ Yes ☐ No

UST SYSTEM INFORMATION/CHECK

Last Tank Tightness Test	Last Line Tightness Test	Dispenser leaking/weeping	Product in UST Pit	Product in Sumps
Date / /	Date 10 / 27/ 2015	☐Yes ☑ No Number(s)	☐ Yes ☑ No Feet	☐ Yes ☑ No Feet

TANK SIZE	TANK STATUS	CONTENTS	LEAKING	MANIFOLDED/ COMPARTMENT
8000	Active	☑ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
8000	Active	☑ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
8000	Active	☑ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
		☐ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
		☐ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
		☐ Gas ☐ Kerosene ☐ Diesel ☐ Used Oil ☐ Biofuel ☐ Other	☐	☐
Unregulated Tanks or Additional Tank Comments				

KNOWLEDGE OF RELEASE

☐Tank Tightness Test	☐ Tank Leak Detector	☐ UST Closure Date / /	☐ Phase II ESA Date / /	☐ UST Inspection	☐ Surface Spill Amount: gal
☑ Line Tightness Test	☐ Line Leak Detector				
☐ Inventory loss	☐ Sump Leak Detector	☐ Site Check	☐ Cathodic Protection Testing	☐ Citizen Complaint	☐ Other

Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov
Michael R. Pence
Governor
Carol S. Comer
Commissioner

December 14, 2016

VIA E-MAIL

Mr. Paul Singh
S&P Petroleum
2801 Mount Vernon Road
Evansville, IN 47712

Dear Mr. Singh:

Re: **Initial Site Characterization Request**
Quick Shop
2801 Mount Vernon Road
Evansville, Vanderburgh, IN, 47712
FID# 8924
LUST# 201612510

A release from an Underground Storage Tank (UST) at Quick Shop located at 2801 Mount Vernon Road in Evansville, Indiana was reported by Troy Smith, IWM Consulting Group LLC on December 13, 2016. Your Leaking Underground Storage Tank (LUST) compliance must proceed in accordance with IC 13-23-13, and 329 IAC 9-5-5.1.

Within 60 days of the release confirmation an Initial Site Characterization (ISC) Report must be submitted to IDEM. The due date for the ISC is February 10, 2017. **No extensions will be granted.** The purpose of the ISC is to gather information regarding the release and surrounding area, including, but not limited to, collection of soil and ground water data, evaluation of potential pathways for migration, and evaluation of receptors. You must install at least three borings, collect soil and ground water samples from each boring, and determine ground water flow direction. The borings should be installed in areas most likely to be contaminated. The goal of the ISC is to collect as many environmental samples as is practicable in order to determine the nature and extent of contamination. If the full nature and extent of contamination is not determined during the ISC process, a Further Site Investigation (FSI) Report will be required; in this case the ISC Report must contain a work plan for the FSI. The work plan should detail additional activities that are proposed, and should provide a schedule of the Further Site Investigation activities.

All ISC Reports must be submitted in the ISC Report Format and include an ISC Checklist and ISC Cover Sheet for IDEM to complete their review. IDEM's goal is to

review all ISC reports within sixty days (60) days of receipt and return the evaluated checklist. All items marked as inadequate on the returned and signed ISC Checklist must be addressed in the timeframe required in IDEM correspondence.

Releases requiring an FSI per 329 IAC 9-5-6 to complete site characterization will be given a deadline 365 days from the date the release was confirmed to determine the full nature and extent of soil and ground water contamination and submit documentation to IDEM. If delineation requires more than one mobilization and sampling event, interim report submittal and IDEM review is not required. The IDEM project manager assigned to your site will be available to provide informal guidance via telephone, email, or on-site support during the step out process. The owner should continue with delineation until the delineation process is completed and a report is submitted within the 365 day deadline set by IDEM. IDEM is requesting one comprehensive FSI report. Failure to submit required documentation delineating the release may result in a referral to the office of enforcement.

In order to facilitate complete site characterization within a year, IDEM requests that staff be notified of all investigative site work in a timely manner. Early staff involvement with the site investigation will assist in efforts to develop a complete conceptual site model within the year timeframe. Please inform the project manager via email or telephone (listed below) as field work dates for the ISC are scheduled.

The ISC Report must contain the information outlined in 329 IAC 9-5-5.1 and be consistent with the Remediation Closure Guide (RCG). **The Remediation Closure Guide (RCG, Waste#0046-R1) and Remediation Program Guide (RPG, Waste-0060) became effective on March 22, 2012. These non-rule policy documents are available at www.in.gov/idem/landquality/2388.htm and www.in.gov/idem/landquality/2389.htm, respectively. For your convenience the current Potential Petroleum Contaminants (PPCs) list is attached.**

The requested information should be submitted following the OLQ Document Submittal Guidelines found at www.in.gov/idem/landquality/2368.htm. To obtain a copy of the ISC Report form and find more information regarding the current list of PPCs, document and data submittal guidelines, sampling and analysis requirements or technical information, visit the LUST Home Page at www.in.gov/idem/landquality/2342.htm or contact the site project manager, e-mail LeakingUST@idem.IN.gov, or call (317) 232-8900 (toll-free at (800) 451-6027, ext. 28900). Please submit the ISC Report to the following address:

Indiana Department of Environmental Management
Underground Storage Tank Branch
Leaking Underground Storage Tank Section
IGCN 1101
100 North Senate Avenue
Indianapolis, IN 46204-2251

The Excess Liability Trust Fund (ELTF) provides a mechanism for the reimbursement of monies spent by UST owners and operators for the clean-up of petroleum released from UST systems. In addition, IDEM encourages owners and operators to submit a zero dollar eligibility claim to ELTF after your submittal of the ISC Report in order to determine the release eligibility. ELTF claims submitted before submittal of the ISC will be denied pursuant to 328 IAC 1-3-1(b). IDEM will use information provided in the ISC as well as other information to determine eligibility, i.e. substantial compliance, pursuant to IC 13-23-8-4 and 328 IAC 1-1-9. **In addition, pursuant to 328 IAC 1-3-3(a)(2) an ISC Report must be completed and submitted to the department within sixty (60) days of reporting a release to the department. If this requirement is not met, the ELTF eligibility percentage will be reduced by five percent (5%) on the ninety-first (91st) day. An additional five percent (5%) will then be deducted for every six (6) months that passes prior to the ISC being submitted to the department.** Please contact the ELTF Section at (317) 234-0990 or toll-free at (800) 451-6027 ext. 40990 with questions. Information on the ELTF Program is available at www.in.gov/idem/landquality/2346.htm.

If you have any questions, please contact Greg Waltz at (317) 233-1513 or toll free from within Indiana at (800) 451-6027. He can also be reached via email at: gwaltz@idem.IN.gov.

Sincerely,

Sherry Jordan
Release Coordinator
Leaking Underground Storage Tank Section
Underground Storage Tank Branch
Office of Land Quality

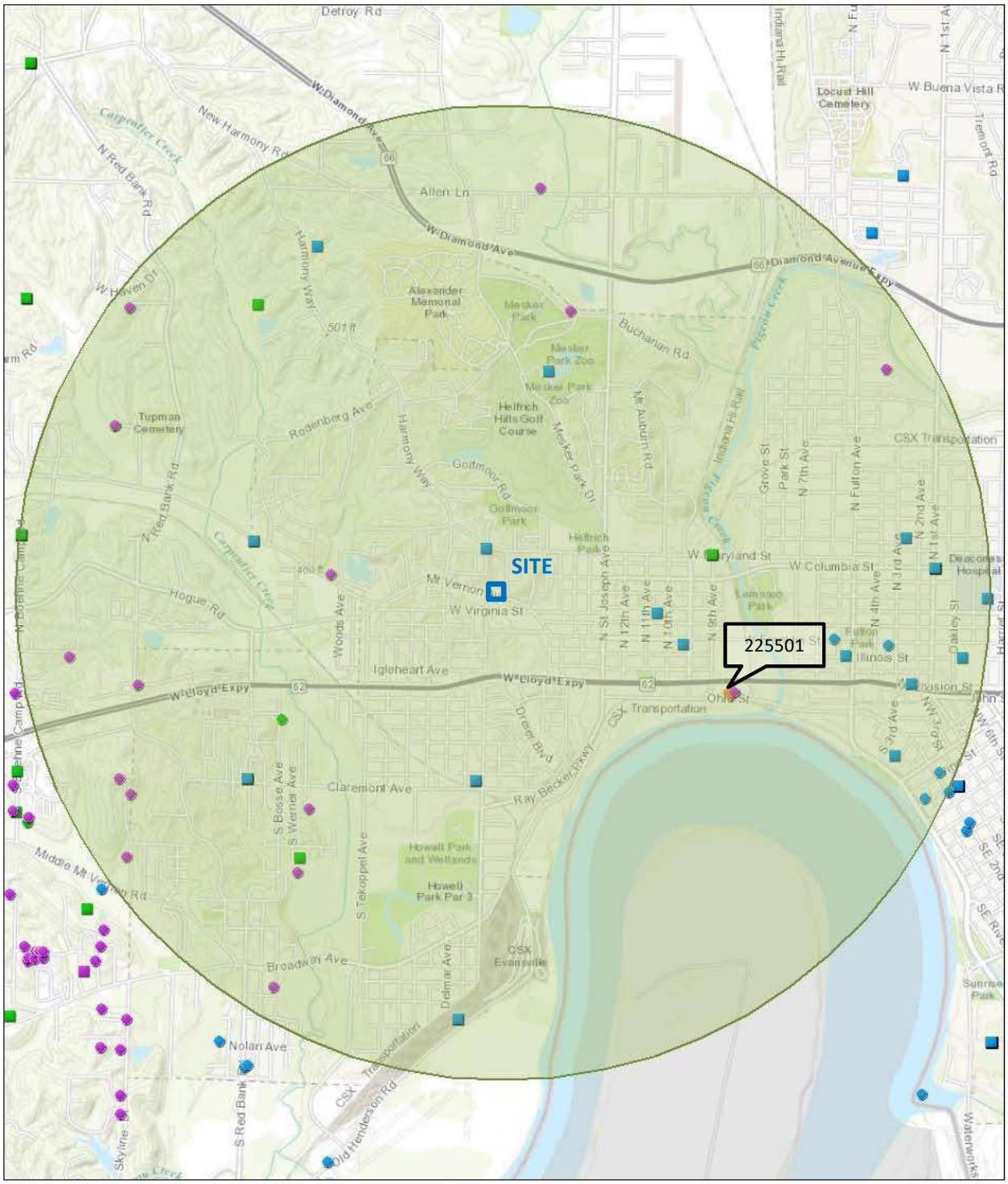
ecopy: IDEM File
Vanderburgh County Health Department
Southwest Regional Office
Troy Smith, IWM Consulting Group LLC
Brad Gentry, IWM Consulting Group LLC

APPENDIX E

Regional Investigation Information

Water Well Records

High Capacity Wells Within 2 mile Radius



January 19, 2017

1:34,000

0 0.325 0.65 1.3 mi

0 0.325 0.65 1.3 km

Areas

Override 1

Boreholes Drilled to Bedrock

Other

Field Located

Unconsolidated Wells

Other

Field Located

Unspecified Well Type

Other

Field Located

Significant Withdraw Wells

Quick Shop Service Station
2801 Mount Vernon Avenue
Evansville, Indiana

iWM CONSULTING GROUP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
225501	ON OHIO ST. ABOUT 0.25MI W OF PIGEON CREEK	May 22, 1991

Owner-Contractor	Name	Address	Telephone
Owner	EVANSVILLE CONCRETE CO INC	1816 W. LLOYD EPRESS WAY EVANSVILLE, IN	(812) 424-3554
Driller	RICHARDVILLE DRILLING CO INC	900 MARX RD EVANSVILLE DR	(812) 985-5251
Operator	GARY RICHARDVILLE	License: 413	

Construction Details

Well	**Use:** Industry	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 75.0	**Pump setting depth:** 50.0	**Water quality:** CLEAR
Casing	**Length:** 55.0	**Material:** PVC	**Diameter:** 8.0
Screen	**Length:** 20.0	**Material:** SS	**Diameter:** 8.0 **Slot size:** 15

Well Capacity Test

Type of test: Pumping **Test rate:** 320.0 gpm for 3.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: 37.5 ft. **Static water level:** 26.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BNSL **Depth:** from 50.0 to 0.0
Installation Method: PUMPED **Number of bags used:** 6.0

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

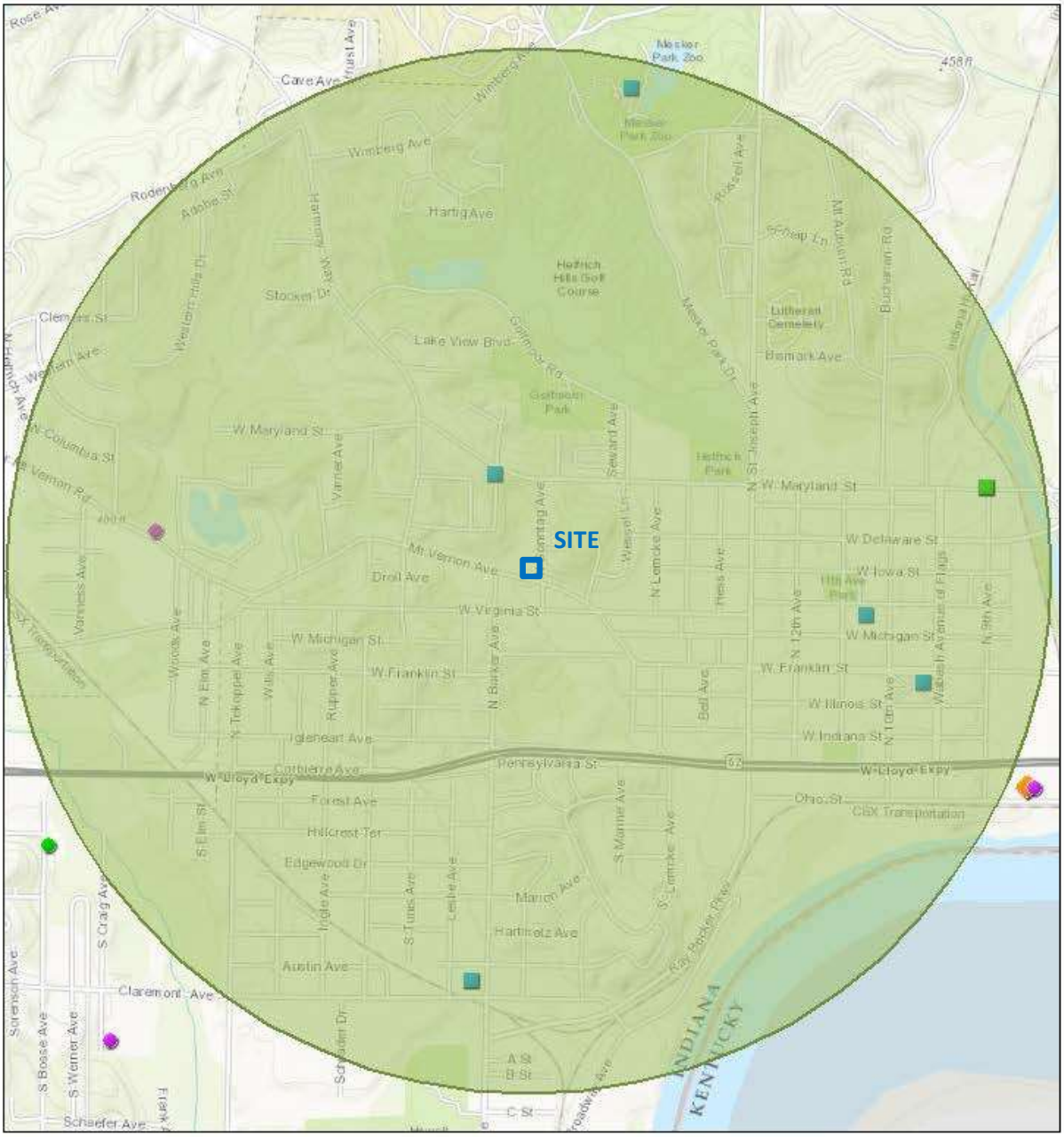
County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: NE of the NW of the NE of Section 25 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: JN **on:** Aug 14, 1992
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: 1850.0 **Ft N of SL:** **Ft E of WL:** **Ft S of NL:** 300.0
Ground elevation: 371.0 **Depth to bedrock:** 75.0 **Bedrock elevation:** 296.0 **Aquifer elevation:**
UTM Easting: 448150.0 **UTM Northing:** 4203245.0

Well Log

Top	Bottom	Formation
0.0	30.0	CLAY
30.0	40.0	SANDY CLAY
40.0	52.0	SAND FN
52.0	55.0	FN SAND WITH CRS MIX
55.0	75.0	SAND & A LITTLE SMALL GRAV

	75.0	GRAY SH
Comments	MC296; VERIFIED BY WONER, MANAGER. MARK POWELL; SEE MAP; EVANSVILLE CONCRETE;	

Low Capacity Wells Within 1 mile Radius



January 19, 2017

1:22,000

0 0.175 0.35 0.7 mi

0 0.2 0.4 0.8 km

Areas

Override 1

Boreholes Drilled to Bedrock

Field Located

Unconsolidated Wells

Other

Unspecified Well Type

Other

Field Located

Significant Withdraw Wells

Quick Shop Service Station
2801 Mount Vernon Avenue
Evansville, Indiana

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
272241	OLD HENDERSON RD ALONG OHIO RIVER 1 MI E OF OLD DAM 48 HSNG	Jul 21, 1990

Owner-Contractor	Name	Address	Telephone
Owner	OUTBOARD BTNG CLUB OF EVANSVIL	PO BX 471 EVANSVILLE	(000) 985-5251
Driller	RICHARDVILLE DRLG CO INC	9000 MARX RD EVANSVILLE	(000) 985-5251
Operator	GARY RICHARDVILLE	License: 413	

Construction Details

Well	**Use:** Other	**Drilling method:** Rotary	**Pump type:**
	Depth: 45.0	**Pump setting depth:** 35.0	**Water quality:**
Casing	**Length:** 38.0	**Material:** PVC	**Diameter:** 6.0
Screen	**Length:** 10.0	**Material:** PVC	**Diameter:** 6.0 **Slot size:** 15

Well Capacity Test

Type of test: Air **Test rate:** 50.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 15.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BNSL **Depth:** from 5.0 to 33.0
Installation Method: PUMP **Number of bags used:** 2.0

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: of Section 23 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	15.0	CLAY
15.0	25.0	BLUE MUD
25.0	45.0	BR S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
225516	2 BLKS FROM CITY LIMITS ON UPER MT VERNON RD. ACROSS RD FROM TRAILOR BROTHERS.	Aug 07, 1959

Owner-Contractor	Name	Address	Telephone
Owner	PACLOCK	RR#3	
Driller	RICHARDVILLE BROS	RR#1, BOX 113A, EVANSVILLE IN	
Operator	CHARLES RICHARDVILLE	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 68.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 55.0	**Material:**	**Diameter:** 6.25
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 6.0 gpm for 0.5 hrs.
Drawdown: ft. **Static water level:** 18.0 ft. **Bailer Drawdown** 50.0 ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: NW of the NE of the SE of Section 22 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: BARNES **on:** Aug 01, 1969
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: 900.0 **Ft N of SL:** 2100.0 **Ft E of WL:** **Ft S of NL:**
Ground elevation: 390.0 **Depth to bedrock:** 52.0 **Bedrock elevation:** 338.0 **Aquifer elevation:**
UTM Easting: 445405.0 **UTM Northing:** 4204062.0

Well Log

Top	Bottom	Formation
0.0	12.0	CLAY
12.0	52.0	BLUE MUD
52.0	55.0	SHALE GREY SOFT
55.0	65.0	GREY SHALE
65.0	68.0	SHALE HARD

Comments MC 340 ; WATER AT TOP OF SHALE 65' HARD SLATE;

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
338819	11TH AVE & INDIAN ST, NOT CLUB PARK, AT THE NORTH CENTER OF PARK NEAR THE STREET	Mar 10, 1992

Owner-Contractor	Name	Address	Telephone
Owner	EVANSVILLE CITY, I.V. DNR		
Driller	RICHARDVILLE DRLNG CO., INC.	9000 MARX RD, EVANSVILLE, IN	(812) 985-5251
Operator	GARY RICHARDVILLE	License: 413	

Construction Details

Well	**Use:**	**Drilling method:** Rotary	**Pump type:**
	Depth: 80.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 80.0	**Material:** PVC	**Diameter:** 2.0
Screen	**Length:** 2.0	**Material:** PVC	**Diameter:** 2.0 **Slot size:** .010

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information

Material: BNSL **Depth:** from 0.0 to 53.0
Installation Method: PUMP **Number of bags used:** 2.5

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: SW of Section 24 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	18.0	BRN CLAY
18.0	26.0	GRAY CLAY
26.0	41.0	FN BRN SAND
41.0	55.0	GRAY CLAY
55.0	57.0	GRAY SANDY CLAY
57.0	73.0	GRAY CLAY

	73.0	80.0	GRAY SH

Comments SCREEN SET 55-57, GRAVEL PACK 53 TO 80

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
225506		Jul 08, 1963

Owner-Contractor	Name	Address	Telephone
Owner	FLANIGAN TAVERN	1900 W. FRANKLIN	
Driller	HELDT-MONROE CO.,INC.	201 N. MAIN ST. EVANSVILLE,IN.	
Operator	WM. HAYDEN	License: null	

Construction Details

Well	**Use:**	**Drilling method:**	**Pump type:**
	Depth: 40.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 35.0	**Material:**	**Diameter:** 2.0
Screen	**Length:** 5.0	**Material:**	**Diameter:** 2.0 **Slot size:** .060

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: SE of the SW of Section 24 **Topo map:** EVANSVILLE NORTH
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	0.0	BLANK

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
264366	FROM EVANSVILLE HWY 62 W TO EICKLOFF RD TURN R 1 MI ON R	Sep 09, 1988

Owner-Contractor	Name	Address	Telephone
Owner	DANNY BATEMAN	RR1, EICKLOFF RD, EVANSVILLE, IN	
Driller	PAUL PETE WEINZAPFEL	430 S POSEY CO LINE RD, EVANSVILLE, IN	
Operator	DAN WEINZAPFEL	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 133.0	**Pump setting depth:** 115.0	**Water quality:** CLEAR
Casing	**Length:** 55.0	**Material:**	**Diameter:** 6.0
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: Air **Test rate:** 9.0 gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: 73.0 ft. **Static water level:** 62.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: of Section 24 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	12.0	RED CLAY
12.0	27.0	RED SAND ROCK
27.0	33.0	SH
33.0	71.0	SH
71.0	77.0	SANDY SH
77.0	119.0	WHITE SANDROCK

119.0	127.0	LS
127.0	133.0	SH

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
225511		Nov 01, 1963

Owner-Contractor	Name	Address	Telephone
Owner	KARGER FURNITURE CO.	1501 W. MARYLAND	
Driller	HELDT-MONROE CO.,INC.	201 N. MAIN ST. EVANSVILLE,IN.	
Operator	CARROLL WATSON	License: null	

Construction Details

Well	**Use:**	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 113.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 40.0	**Material:**	**Diameter:** 6.25
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 0.0 gpm for 1.0 hrs.
Drawdown: ft. **Static water level:** 80.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: of Section 24 **Topo map:** EVANSVILLE NORTH
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	90.0	OLD WELL
90.0	113.0	BLUE CLAY & SHALE

Comments DRY HOLE ;

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
240257	ON MARYLAND ST ON W SIDE OF PIGEON CREEK	Jun 06, 1984

Owner-Contractor	Name	Address	Telephone
Owner	UNISEAL INC	1800 W MARYLAND	
Driller	RICHARDVILLE DRLG	621 S BOEHNE RD, EVANSVILLE IN	
Operator	GARY RICHARDVILLE	License: null	

Construction Details

Well	**Use:** Industry	**Drilling method:** Rotary	**Pump type:**
	Depth: 250.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 40.0	**Material:**	**Diameter:** 8.0
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 14.0 gpm for hrs.
Drawdown: ft. **Static water level:** 26.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: of Section 24 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	14.0	FILL AND CLAY
14.0	23.0	BR SANDY SH
23.0	33.0	GRAY SANDY SH
33.0	83.0	GRAY SH
83.0	84.0	LIME
84.0	102.0	GRAY SANDY SH
102.0	104.0	HARD SANDY LIME

104.0	140.0	SANDY SH AND SAND
140.0	145.0	GRAY DK SH
145.0	160.0	SAND
160.0	169.0	SANDY SH
169.0	178.0	HARD SANDY SH
178.0	192.0	DK GRAY SH
192.0	245.0	BROKEN SAND AND DK SH
245.0	250.0	DK GRAY SH

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
338820	HELFRICK PARK, MARYLAND ST, BETWEEN THE SWIMMING POOL & THE FIRE STATION	Mar 17, 1992

Owner-Contractor	Name	Address	Telephone
Owner	EVANSVILLE CITY, I.V. DNR		
Driller	RICHARDVILLE DRLNG CO., INC.	9000 MARX RD, EVANSVILLE, IN	(812) 985-5251
Operator	GARY RICHARDVILLE	License: 413	

Construction Details

Well	**Use:** Other	**Drilling method:**	**Pump type:**
	Depth:	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 35.0	**Material:** PVC	**Diameter:** 2.0
Screen	**Length:** 2.0	**Material:** PVC	**Diameter:** 2.0 **Slot size:** .010

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information

Material: BNSL **Depth:** from 0.0 to 27.0
Installation Method: PUMP **Number of bags used:** 1.0

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: SE of Section 14 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	29.0	BRN CLAY
29.0	31.0	GRAY CLAY WET
31.0	33.9	BRN CLAY
33.9	35.0	BRN SS

Comments SCREEN SET 29-31, GRAVEL PACK 27-35

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
338807	WEST WATER TREATMENT PLANT	Oct 24, 1991

Owner-Contractor	Name	Address	Telephone
Owner	I.G.S.		
Driller	HARDESTY DRLG & TESTING CO	RR 2 BOX 651	(821) 847-2296
Operator	DALE D HARDESTY	License: 867	

Construction Details

Well	**Use:** Test	**Drilling method:** Rotary	**Pump type:**
	Depth: 77.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 78.0	**Material:** PVC	**Diameter:** 2.0
Screen	**Length:** 2.0	**Material:** PVC SCREEN	**Diameter:** 2.0 **Slot size:** .010

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: VANDERBURGH **Township:** 6S **Range:** 11W
Section: SW of the SW of Section 26 **Topo map:** EVANSVILLE SOUTH,IN-KY
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	1.5	SURFACE & SOIL
1.5	5.0	CLAY-MED BROWN, SILTY
5.0	7.0	CLAY-BROWN-GREEN/BROWN MXD
7.0	8.0	CLAY-YELLOW-BROWN/BROWN MXD
8.0	10.0	CLAY-DK GRAY
10.0	12.0	CLAY-BROWN-GRAY/BROWN MXD
12.0	15.0	CLAY-BROWN,GRITTY,SILTY

15.0	20.0	CLAY-BROWN/GRAY MXD
20.0	25.0	CLAY-DRIFTY GRAY-GREEN MXD
25.0	28.0	CLAY-DRIFTY,GRAY-VERY SLICK
28.0	30.0	CLAY-BROWN/GRAY MXD-DRIFTY
30.0	40.0	CLAY-DRIFTY GRAY

Comments

HISTORICAL RELEASES

Incident Number	☐ Active ☐ NFA	Associated with New Release ☐ Yes ☐ No
Incident Number	☐ Active ☐ NFA	Associated with New Release ☐ Yes ☐ No

SOURCE AND CAUSE

SOURCE	CAUSE						
	Spill	Overfill	Corrosion	Physical or Mechanical Damage	Install Problem	Other	Unknown
Tank	☐	☐	☐	☐	☐	☐	☐
Piping	☐	☐	☐	☐	☐	☐	☑
Dispenser	☐	☐	☐	☐	☐	☐	☐
Submersible Turbine Pump	☐	☐	☐	☐	☐	☐	☐
Delivery Problem	☐	☐	☐	☐	☐	☐	☐
Other	☐	☐	☐	☐	☐	☐	☐

AFFECTED AREAS

FACTORS	YES	NO	UNK		
Soil Contamination	☐	☐	☑	Highest Lab Results; Benzene ppm, Naphthalene ppm, Other	
Groundwater Contamination	☐	☐	☑	Highest Lab Results; Benzene ppm, Naphthalene ppm, Other	
Free Product	☐	☐	☑	Thickness feet	Area square feet
Drinking water well impacted	☐	☐	☑	Highest lab sample result µg/l	Distance to well? feet
Vapors in inhabitable building	☐	☐	☑	Concentration ☐ % LEL ☐ ppm	
Utility corridors affected	☐	☐	☑	☐ Storm Sewer ☐ Sanitary Sewer ☐ Water ☐ Electric ☐ Gas ☐ Telephone ☐ Cable Concentration ☐ % LEL ☐ ppm	
Wellhead protection area within one (1) year time of travel or 1000'	☐	☐	☑	Distance? feet	
Surface water impacted	☐	☐	☑	Type	Name
Emergency Response Incident	☐	☐		Spill Number	Fire Department Notified ☐ Yes ☐ No
Other					

ADDITIONAL SITE INFORMATION

ADDITIONAL FACTORS		
Nearest inhabitable building	75 feet ☐ N/A	
Nearest surface water	4275 feet ☐ N/A	
Potable water wells within 500 feet	Number of wells	Distance to nearest well
Karst/fractured bedrock	☐ Yes ☐ No	
Anticipated groundwater flow direction	South to the river	

COMMENTS

Describe in detail information including, but not limited to, the source and cause of release, nature of contamination and reason for sampling:

During the annual line testing, Midwest failed the Premium and Mid-grade lines on 12/8/16, since that time Premium and Mid-grade has not been sold. On 12/12/2016 Midwest returned to the site and ran a helium test on those lines and discovered the Mid-grade was leaking at the flex at dispenser 1/2 and the Premium was at the flex on dispenser 3/4. Servtech is scheduled to make the repairs on Wednesday (12/14/2016). Site is not selling Mid-grade or Premium.

Report received by *(IDEM Signature)*	Date *(month, day, year)*	Report submitted by *(Signature)* Troy Smith	Date *(month, day, year)* 12/13/2016
Report received by *(IDEM Printed Name)*		Report submitted by *(Printed Name)* Troy A Smith	

APPENDIX F

Soil Boring Logs/Well Construction Diagrams

BORING/WELL LOG: GP-1/MW-1

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

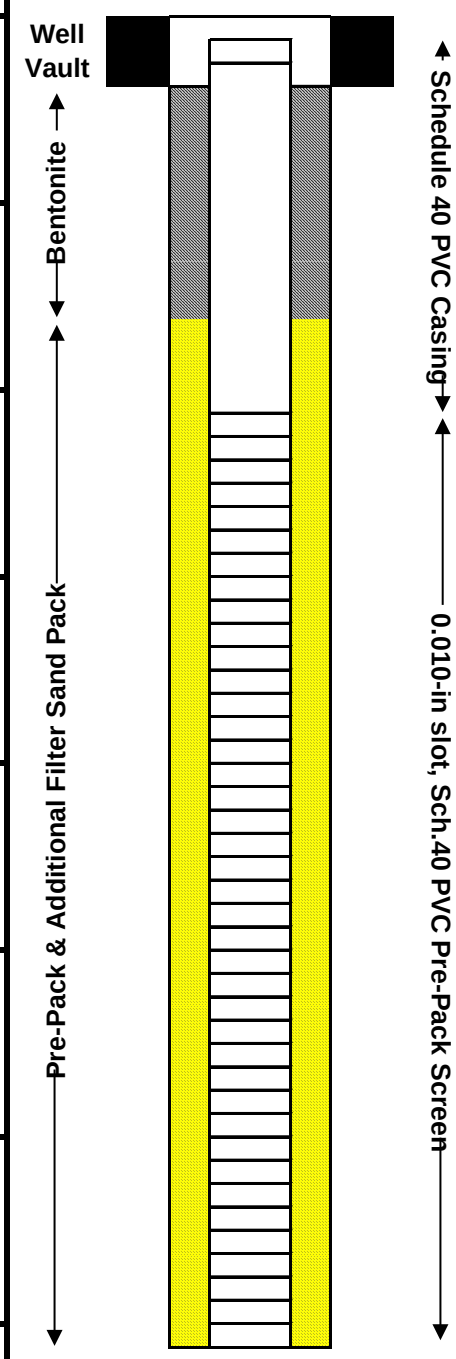
SUBSURFACE PROFILE

DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION
		Ground Surface
0		Asphalt
		SAND, (m.f.), w/ well graded limestone gravel, tan
1		Fill, brick
		CLAY, silty, moist, soft, olive green, grey mottled
2		
3		
4		
5		
6		CLAY, silty, moist, soft, orangish brown, olive mottled
7		CLAY, silty, orangish brown, mottled
8		
9		
10		
11		CLAY, silty, stiff, orangish brown, black mottled
12		
13		
14		
15		
16		

SAMPLE

SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)
0 - 2	40	0.1
2 - 4		0.1
4 - 6*	46	0.3
6 - 8		0.0
8 - 10	48	0.0
10 - 12*		0.0
12 - 14	48	0.0
14 - 16*		0.0

Boring Completion Details



Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 20 feet
Casing Length: 3.81 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo
Reviewed by: C. Newell

BORING/WELL LOG: GP-1/MW-1

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

SUBSURFACE PROFILE			SAMPLE			
DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION	SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)	Boring Completion Details
16		CLAY, silty, stiff, orangish brown, black mottled	16 - 18	48	0.0	
17		CLAY, silty, stiff, orangish brown, tan mottled, trace reddish mottled				
18			18 - 20		0.0	
19						
20		End of Boring	20 - 22			
21						
22			22 - 24			
23						
24			24 - 26			
25						
26			26 - 28			
27						
28			28 - 30			
29						
30			30 - 32			
31						
32						

Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 20 feet
Casing Length: 3.81 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo

BORING/WELL LOG: GP-2/MW-2

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

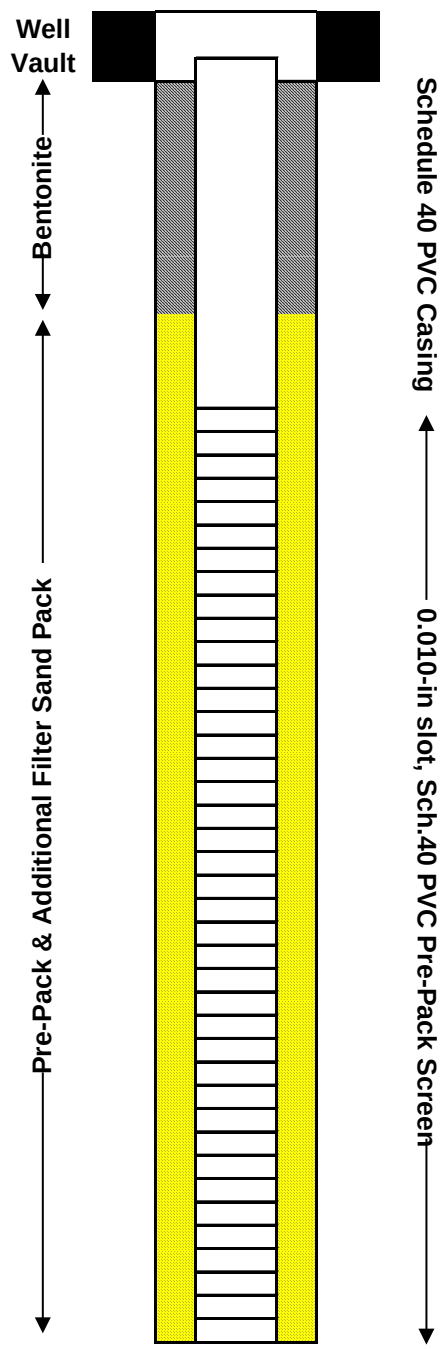
SUBSURFACE PROFILE

DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION
		Ground Surface
0		Concrete
		SAND, (m.f.), w/ trace fine gravel, brown
1		CLAY, silty, trace fine sand, orangish brown
		CLAY, silty, moist, soft, olive green
2		
3		
4		
5		CLAY, silty, trace fine sand, grey brown
6		
		CLAY, silty, w/ fine gravel, moist, soft, orangish red
7		CLAY, silty, trace fine sand, stiff, reddish orange
8		
9		
10		
11		
		CLAY, silty, stiff, orangish red
12		
13		
14		
15		
16		

SAMPLE

SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)
0 - 2	30	2.1
2 - 4*		43.1
4 - 6	38	0.4
6 - 8		0.0
8 - 10	48	0.0
10 - 12		0.0
12 - 14*	48	0.0
14 - 16		0.0

Boring Completion Details



Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 28 feet
Casing Length: 3.71 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo
Reviewed by: C. Newell

BORING/WELL LOG: GP-2/MW-2

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

SUBSURFACE PROFILE			SAMPLE			
DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION	SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)	Boring Completion Details
16		CLAY, silty, stiff, orangish red				
		CLAY, silty, trace fine gravel, stiff, orangish brown, tan mottled	16 - 18	48	0.0	
17						
18			18 - 20		0.0	
19						
20			20 - 22	48	0.0.	
21						
22			22 - 24		0.0	
		CLAY, silty, stiff, tan				
23						
24		CLAY, silty, very stiff, dry, laminated, friable, light tan	24 - 26	48	0.0	
25						
26			26 - 28		0.0	
27						
28		End of Boring-refusal	28 - 30			
29						
30			30 - 32			
31						
32						

Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 28 feet
Casing Length: 3.71 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo

BORING/WELL LOG: GP-3/MW-3

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

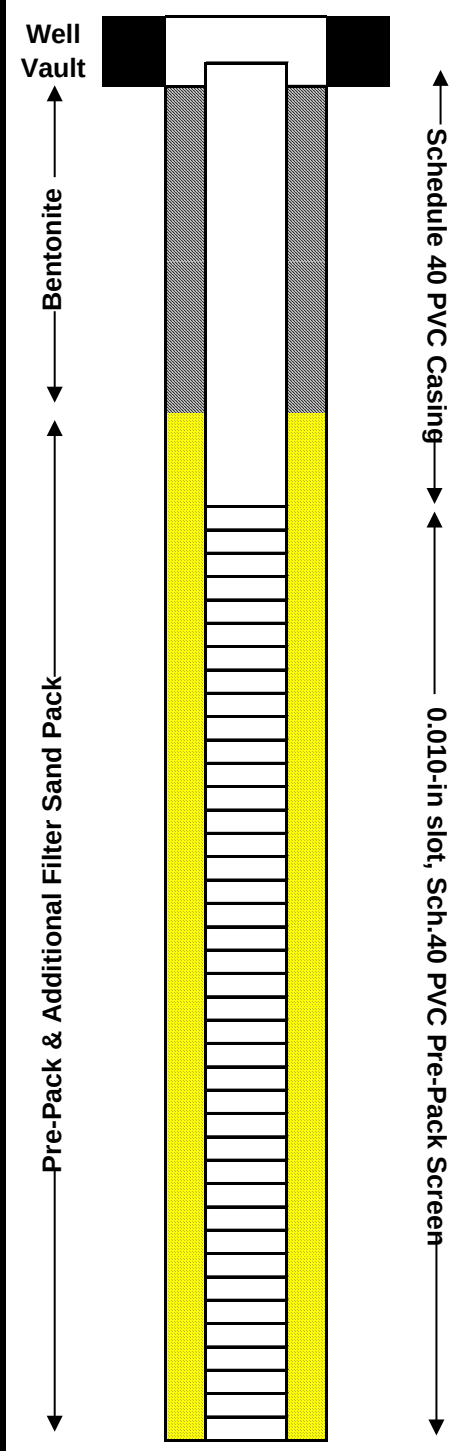
SUBSURFACE PROFILE

DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION
		Ground Surface
0		Asphalt
		CLAY, silty, trace fine sand, brown
1		CLAY, silty, moist, soft, olive green
2		
3		
4		
5		
6		
7		
		CLAY, silty, w/ fine gravel, moist, orangish red, olive green mottled
8		CLAY, silty, trace fine sand, reddish orange
9		
10		
11		
12		
		CLAY, silty, orangish brown, stiff, tan mottled
13		
14		
15		
16		

SAMPLE

SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)
0 - 2	32	118.9
2 - 4*		320.4
4 - 6	42	2.8
6 - 8		0.7
8 - 10	48	0.2
10 - 12		0.0
12 - 14	48	0.0
14 - 16*		0.0.

Boring Completion Details



Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 28.5 feet
Casing Length: 4.78 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo
Reviewed by: C. Newell

BORING/WELL LOG: GP-3/MW-3

7428 Rockville Road
Indianapolis, Indiana 46214
Client Location No.: Quick Shop
Site Address: 2801 Mt. Vernon Avenue
City, State: Evansville, IN

Installation Date: January 16, 2016
Client: S & P Petroleum Inc.
IWM Job #: IN17002

SUBSURFACE PROFILE			SAMPLE			
DEPTH (ft)	SYMBOL	GEOLOGIC DESCRIPTION	SAMPLE INTERVAL	RECOVERY (inches)	PID / FID (ppm)	Boring Completion Details
16		CLAY, silty, orangish brown, stiff, tan mottled	16 - 18	48	0.0	
17						
18		CLAY, silty, stiff, orangish brown, tan mottled	18 - 20		0.0	
19						
20			20 - 22	48	0.0	
21						
		CLAY, silty, dry,very stiff, light orangish brown				
22		CLAY, silty, dry, laminated, stiff, light brown	22 - 24		0.0	
23						
24		CLAY, silty, dry, laminated, friable, light tan	24 - 26	48	0.0	
25						
26			26 - 28		0.0	
27						
28			28 - 30	6	0.0	
29		End of Boring- refusal				
30			30 - 32			
31						
32						

Note: * Sample submitted for laboratory analysis.
Boring Diameter: 3.75 inches
Boring Depth: 28.5 feet
Casing Length: 4.78 feet
Screen Length: 10 feet
Well Diameter: 2 inches
Casing Material: Schedule 40 PVC

▼ - Indicates depth to groundwater.
Screen Material: Sch. 40 PVC 0.010-in slot Pre-pack
Sampling Method: 48 inch Dual Tube
Drill Method: Direct Push
Drilled By: Enviro-Dynamics, LLC
Field Scientist: C. Schoo

APPENDIX G

Laboratory Analytical Reports

Pace Analytical Services, LLC
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

January 23, 2017

Mr. Brad Gentry
IWM Consulting
7428 Rockville Road
Indianapolis, IN 46214

RE: Project: Quick Shop / IN17002
Pace Project No.: 50163047

Dear Mr. Gentry:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50163047001	**GP-1 4-6'**	Solid	01/16/17 13:20	01/17/17 13:15
50163047002	**GP-1 10-12'**	Solid	01/16/17 13:30	01/17/17 13:15
50163047003	**GP-2 2-4'**	Solid	01/16/17 11:35	01/17/17 13:15
50163047004	**GP-2 12-14'**	Solid	01/16/17 11:45	01/17/17 13:15
50163047005	**GP-3 2-4'**	Solid	01/16/17 10:30	01/17/17 13:15
50163047006	**GP-3 14-16'**	Solid	01/16/17 10:45	01/17/17 13:15
50163047007	**FD-1**	Solid	01/16/17 08:00	01/17/17 13:15
50163047008	**TB-1**	Solid	01/16/17 08:00	01/17/17 13:15

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SAMPLE ANALYTE COUNT

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50163047001	**GP-1 4-6'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047002	**GP-1 10-12'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047003	**GP-2 2-4'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047004	**GP-2 12-14'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047005	**GP-3 2-4'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047006	**GP-3 14-16'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047007	**FD-1**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047008	**TB-1**	EPA 8260	TMW	75

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SUMMARY OF DETECTION

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50163047001	**GP-1 4-6'**					
EPA 6010	Lead	7.8	mg/kg	1.2	01/23/17 10:54	
EPA 8260	Benzene	0.0054	mg/kg	0.0054	01/18/17 20:48	
SM 2540G	Percent Moisture	23.5	%	0.10	01/18/17 14:24	
50163047002	**GP-1 10-12'**					
EPA 6010	Lead	11.5	mg/kg	1.2	01/23/17 10:56	
EPA 8260	Methyl-tert-butyl ether	0.016	mg/kg	0.0047	01/18/17 21:26	
SM 2540G	Percent Moisture	20.4	%	0.10	01/18/17 14:24	
50163047003	**GP-2 2-4'**					
EPA 6010	Lead	5.6	mg/kg	1.2	01/23/17 11:02	
SM 2540G	Percent Moisture	19.8	%	0.10	01/18/17 14:24	
50163047004	**GP-2 12-14'**					
EPA 6010	Lead	11.5	mg/kg	1.1	01/23/17 11:04	
SM 2540G	Percent Moisture	19.9	%	0.10	01/18/17 14:25	
50163047005	**GP-3 2-4'**					
EPA 6010	Lead	8.7	mg/kg	1.1	01/23/17 11:14	
EPA 8260	n-Butylbenzene	1.0	mg/kg	0.49	01/18/17 22:41	
EPA 8260	n-Hexane	6.6	mg/kg	0.49	01/18/17 22:41	
EPA 8260	Isopropylbenzene (Cumene)	0.57	mg/kg	0.49	01/18/17 22:41	
EPA 8260	2-Methylnaphthalene	2.1	mg/kg	0.98	01/18/17 22:41	
EPA 8260	n-Propylbenzene	2.6	mg/kg	0.49	01/18/17 22:41	
SM 2540G	Percent Moisture	19.7	%	0.10	01/18/17 14:25	
50163047006	**GP-3 14-16'**					
EPA 6010	Lead	7.0	mg/kg	1.2	01/23/17 11:17	
SM 2540G	Percent Moisture	16.4	%	0.10	01/18/17 14:25	
50163047007	**FD-1**					
EPA 6010	Lead	7.9	mg/kg	1.1	01/23/17 11:19	
EPA 8260	n-Butylbenzene	1.0	mg/kg	0.51	01/18/17 23:56	
EPA 8260	n-Hexane	6.1	mg/kg	0.51	01/18/17 23:56	
EPA 8260	Isopropylbenzene (Cumene)	0.53	mg/kg	0.51	01/18/17 23:56	
EPA 8260	2-Methylnaphthalene	1.9	mg/kg	1.0	01/18/17 23:56	
EPA 8260	n-Propylbenzene	2.5	mg/kg	0.51	01/18/17 23:56	
SM 2540G	Percent Moisture	20.0	%	0.10	01/18/17 14:25	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 4-6' **Lab ID: 50163047001** Collected: 01/16/17 13:20 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.8**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 10:54	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		01/18/17 20:48	67-64-1	
Acrolein	ND	mg/kg	0.11	1		01/18/17 20:48	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		01/18/17 20:48	107-13-1	
Benzene	**0.0054**	mg/kg	0.0054	1		01/18/17 20:48	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-27-4	
Bromoform	ND	mg/kg	0.0054	1		01/18/17 20:48	75-25-2	
Bromomethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		01/18/17 20:48	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		01/18/17 20:48	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0054	1		01/18/17 20:48	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-90-7	
Chloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-00-3	
Chloroform	ND	mg/kg	0.0054	1		01/18/17 20:48	67-66-3	
Chloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0054	1		01/18/17 20:48	106-93-4	
Dibromomethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		01/18/17 20:48	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		01/18/17 20:48	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0054	1		01/18/17 20:48	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 4-6' **Lab ID: 50163047001** Collected: 01/16/17 13:20 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0054	1		01/18/17 20:48	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		01/18/17 20:48	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		01/18/17 20:48	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0054	1		01/18/17 20:48	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		01/18/17 20:48	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.011	1		01/18/17 20:48	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.011	1		01/18/17 20:48	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		01/18/17 20:48	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0054	1		01/18/17 20:48	1634-04-4	
Naphthalene	ND	mg/kg	0.0054	1		01/18/17 20:48	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	103-65-1	
Styrene	ND	mg/kg	0.0054	1		01/18/17 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	127-18-4	
Toluene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		01/18/17 20:48	108-05-4	
Vinyl chloride	ND	mg/kg	0.0054	1		01/18/17 20:48	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		01/18/17 20:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	70-128	1		01/18/17 20:48	1868-53-7	
Toluene-d8 (S)	102	%.	72-139	1		01/18/17 20:48	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1		01/18/17 20:48	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**23.5**	%	0.10	1		01/18/17 14:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 10-12' **Lab ID: 50163047002** Collected: 01/16/17 13:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**11.5**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 10:56	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.095	1		01/18/17 21:26	67-64-1	
Acrolein	ND	mg/kg	0.095	1		01/18/17 21:26	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		01/18/17 21:26	107-13-1	
Benzene	ND	mg/kg	0.0047	1		01/18/17 21:26	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		01/18/17 21:26	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 21:26	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		01/18/17 21:26	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		01/18/17 21:26	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		01/18/17 21:26	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		01/18/17 21:26	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		01/18/17 21:26	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		01/18/17 21:26	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		01/18/17 21:26	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 10-12' **Lab ID: 50163047002** Collected: 01/16/17 13:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0047	1		01/18/17 21:26	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		01/18/17 21:26	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		01/18/17 21:26	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		01/18/17 21:26	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 21:26	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 21:26	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 21:26	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 21:26	108-10-1	
Methyl-tert-butyl ether	**0.016**	mg/kg	0.0047	1		01/18/17 21:26	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		01/18/17 21:26	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	103-65-1	
Styrene	ND	mg/kg	0.0047	1		01/18/17 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	127-18-4	
Toluene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		01/18/17 21:26	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		01/18/17 21:26	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		01/18/17 21:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	70-128	1		01/18/17 21:26	1868-53-7	
Toluene-d8 (S)	106	%.	72-139	1		01/18/17 21:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	65-127	1		01/18/17 21:26	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.4**	%	0.10	1		01/18/17 14:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 2-4' **Lab ID: 50163047003** Collected: 01/16/17 11:35 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**5.6**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 11:02	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.094	1		01/18/17 22:03	67-64-1	
Acrolein	ND	mg/kg	0.094	1		01/18/17 22:03	107-02-8	
Acrylonitrile	ND	mg/kg	0.094	1		01/18/17 22:03	107-13-1	
Benzene	ND	mg/kg	0.0047	1		01/18/17 22:03	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		01/18/17 22:03	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 22:03	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	98-06-6	
Carbon disulfide	ND	mg/kg	0.0094	1		01/18/17 22:03	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		01/18/17 22:03	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		01/18/17 22:03	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		01/18/17 22:03	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.094	1		01/18/17 22:03	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.094	1		01/18/17 22:03	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		01/18/17 22:03	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 2-4' **Lab ID: 50163047003** Collected: 01/16/17 11:35 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0047	1		01/18/17 22:03	110-54-3	
2-Hexanone	ND	mg/kg	0.094	1		01/18/17 22:03	591-78-6	
Iodomethane	ND	mg/kg	0.094	1		01/18/17 22:03	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		01/18/17 22:03	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 22:03	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0094	1		01/18/17 22:03	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0094	1		01/18/17 22:03	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 22:03	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		01/18/17 22:03	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		01/18/17 22:03	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	103-65-1	
Styrene	ND	mg/kg	0.0047	1		01/18/17 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	127-18-4	
Toluene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-67-8	
Vinyl acetate	ND	mg/kg	0.094	1		01/18/17 22:03	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		01/18/17 22:03	75-01-4	
Xylene (Total)	ND	mg/kg	0.0094	1		01/18/17 22:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	70-128	1		01/18/17 22:03	1868-53-7	
Toluene-d8 (S)	108	%.	72-139	1		01/18/17 22:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	65-127	1		01/18/17 22:03	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.8**	%	0.10	1		01/18/17 14:24		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 12-14' **Lab ID: 50163047004** Collected: 01/16/17 11:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**11.5**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:04	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.096	1		01/19/17 16:54	67-64-1	
Acrolein	ND	mg/kg	0.096	1		01/19/17 16:54	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	1		01/19/17 16:54	107-13-1	
Benzene	ND	mg/kg	0.0048	1		01/19/17 16:54	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		01/19/17 16:54	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/19/17 16:54	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	98-06-6	
Carbon disulfide	ND	mg/kg	0.0096	1		01/19/17 16:54	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		01/19/17 16:54	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		01/19/17 16:54	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		01/19/17 16:54	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		01/19/17 16:54	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	1		01/19/17 16:54	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		01/19/17 16:54	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 12-14' **Lab ID: 50163047004** Collected: 01/16/17 11:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0048	1		01/19/17 16:54	110-54-3	
2-Hexanone	ND	mg/kg	0.096	1		01/19/17 16:54	591-78-6	
Iodomethane	ND	mg/kg	0.096	1		01/19/17 16:54	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		01/19/17 16:54	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/19/17 16:54	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0096	1		01/19/17 16:54	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0096	1		01/19/17 16:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/19/17 16:54	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		01/19/17 16:54	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		01/19/17 16:54	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	103-65-1	
Styrene	ND	mg/kg	0.0048	1		01/19/17 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	127-18-4	
Toluene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-67-8	
Vinyl acetate	ND	mg/kg	0.096	1		01/19/17 16:54	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		01/19/17 16:54	75-01-4	L3,R1
Xylene (Total)	ND	mg/kg	0.0096	1		01/19/17 16:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	70-128	1		01/19/17 16:54	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1		01/19/17 16:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1		01/19/17 16:54	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.9**	%	0.10	1		01/18/17 14:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 2-4' **Lab ID: 50163047005** Collected: 01/16/17 10:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**8.7**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:14	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	9.8	100		01/18/17 22:41	67-64-1	
Acrolein	ND	mg/kg	9.8	100		01/18/17 22:41	107-02-8	
Acrylonitrile	ND	mg/kg	9.8	100		01/18/17 22:41	107-13-1	
Benzene	ND	mg/kg	0.49	100		01/18/17 22:41	71-43-2	1d
Bromobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-27-4	
Bromoform	ND	mg/kg	0.49	100		01/18/17 22:41	75-25-2	
Bromomethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.4	100		01/18/17 22:41	78-93-3	
n-Butylbenzene	**1.0**	mg/kg	0.49	100		01/18/17 22:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.98	100		01/18/17 22:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.49	100		01/18/17 22:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-90-7	
Chloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-00-3	
Chloroform	ND	mg/kg	0.49	100		01/18/17 22:41	67-66-3	
Chloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.49	100		01/18/17 22:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.49	100		01/18/17 22:41	106-43-4	
Dibromochloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.49	100		01/18/17 22:41	106-93-4	
Dibromomethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	9.8	100		01/18/17 22:41	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	100-41-4	
Ethyl methacrylate	ND	mg/kg	9.8	100		01/18/17 22:41	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.49	100		01/18/17 22:41	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 2-4' **Lab ID: 50163047005** Collected: 01/16/17 10:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	**6.6**	mg/kg	0.49	100		01/18/17 22:41	110-54-3	
2-Hexanone	ND	mg/kg	9.8	100		01/18/17 22:41	591-78-6	
Iodomethane	ND	mg/kg	9.8	100		01/18/17 22:41	74-88-4	
Isopropylbenzene (Cumene)	**0.57**	mg/kg	0.49	100		01/18/17 22:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.49	100		01/18/17 22:41	99-87-6	
Methylene Chloride	ND	mg/kg	2.0	100		01/18/17 22:41	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.98	100		01/18/17 22:41	90-12-0	N2
2-Methylnaphthalene	**2.1**	mg/kg	0.98	100		01/18/17 22:41	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.4	100		01/18/17 22:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.49	100		01/18/17 22:41	1634-04-4	
Naphthalene	ND	mg/kg	0.49	100		01/18/17 22:41	91-20-3	
n-Propylbenzene	**2.6**	mg/kg	0.49	100		01/18/17 22:41	103-65-1	
Styrene	ND	mg/kg	0.49	100		01/18/17 22:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	79-34-5	
Tetrachloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	127-18-4	
Toluene	ND	mg/kg	0.49	100		01/18/17 22:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	79-00-5	
Trichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-67-8	
Vinyl acetate	ND	mg/kg	9.8	100		01/18/17 22:41	108-05-4	
Vinyl chloride	ND	mg/kg	0.49	100		01/18/17 22:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.98	100		01/18/17 22:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	70-128	100		01/18/17 22:41	1868-53-7	D4
Toluene-d8 (S)	102	%.	72-139	100		01/18/17 22:41	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	65-127	100		01/18/17 22:41	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.7**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 14-16' **Lab ID: 50163047006** Collected: 01/16/17 10:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.0**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 11:17	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.095	1		01/18/17 23:19	67-64-1	
Acrolein	ND	mg/kg	0.095	1		01/18/17 23:19	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		01/18/17 23:19	107-13-1	
Benzene	ND	mg/kg	0.0048	1		01/18/17 23:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		01/18/17 23:19	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 23:19	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		01/18/17 23:19	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		01/18/17 23:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		01/18/17 23:19	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		01/18/17 23:19	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		01/18/17 23:19	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		01/18/17 23:19	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		01/18/17 23:19	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 14-16' **Lab ID: 50163047006** Collected: 01/16/17 10:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0048	1		01/18/17 23:19	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		01/18/17 23:19	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		01/18/17 23:19	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		01/18/17 23:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 23:19	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 23:19	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 23:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 23:19	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		01/18/17 23:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		01/18/17 23:19	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	103-65-1	
Styrene	ND	mg/kg	0.0048	1		01/18/17 23:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	127-18-4	
Toluene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		01/18/17 23:19	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		01/18/17 23:19	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		01/18/17 23:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	70-128	1		01/18/17 23:19	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1		01/18/17 23:19	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	65-127	1		01/18/17 23:19	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**16.4**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: FD-1 **Lab ID: 50163047007** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.9**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:19	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	10.2	100		01/18/17 23:56	67-64-1	
Acrolein	ND	mg/kg	10.2	100		01/18/17 23:56	107-02-8	
Acrylonitrile	ND	mg/kg	10.2	100		01/18/17 23:56	107-13-1	
Benzene	ND	mg/kg	0.51	100		01/18/17 23:56	71-43-2	1d
Bromobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-27-4	
Bromoform	ND	mg/kg	0.51	100		01/18/17 23:56	75-25-2	
Bromomethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.5	100		01/18/17 23:56	78-93-3	
n-Butylbenzene	**1.0**	mg/kg	0.51	100		01/18/17 23:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	98-06-6	
Carbon disulfide	ND	mg/kg	1.0	100		01/18/17 23:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.51	100		01/18/17 23:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-90-7	
Chloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-00-3	
Chloroform	ND	mg/kg	0.51	100		01/18/17 23:56	67-66-3	
Chloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.51	100		01/18/17 23:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.51	100		01/18/17 23:56	106-43-4	
Dibromochloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.51	100		01/18/17 23:56	106-93-4	
Dibromomethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	10.2	100		01/18/17 23:56	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	100-41-4	
Ethyl methacrylate	ND	mg/kg	10.2	100		01/18/17 23:56	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.51	100		01/18/17 23:56	87-68-3	

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7726 Moller Road
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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: FD-1 **Lab ID: 50163047007** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	**6.1**	mg/kg	0.51	100		01/18/17 23:56	110-54-3	
2-Hexanone	ND	mg/kg	10.2	100		01/18/17 23:56	591-78-6	
Iodomethane	ND	mg/kg	10.2	100		01/18/17 23:56	74-88-4	
Isopropylbenzene (Cumene)	**0.53**	mg/kg	0.51	100		01/18/17 23:56	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.51	100		01/18/17 23:56	99-87-6	
Methylene Chloride	ND	mg/kg	2.0	100		01/18/17 23:56	75-09-2	
1-Methylnaphthalene	ND	mg/kg	1.0	100		01/18/17 23:56	90-12-0	N2
2-Methylnaphthalene	**1.9**	mg/kg	1.0	100		01/18/17 23:56	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.5	100		01/18/17 23:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.51	100		01/18/17 23:56	1634-04-4	
Naphthalene	ND	mg/kg	0.51	100		01/18/17 23:56	91-20-3	
n-Propylbenzene	**2.5**	mg/kg	0.51	100		01/18/17 23:56	103-65-1	
Styrene	ND	mg/kg	0.51	100		01/18/17 23:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	127-18-4	
Toluene	ND	mg/kg	0.51	100		01/18/17 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	79-00-5	
Trichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-67-8	
Vinyl acetate	ND	mg/kg	10.2	100		01/18/17 23:56	108-05-4	
Vinyl chloride	ND	mg/kg	0.51	100		01/18/17 23:56	75-01-4	
Xylene (Total)	ND	mg/kg	1.0	100		01/18/17 23:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	70-128	100		01/18/17 23:56	1868-53-7	D4
Toluene-d8 (S)	104	%.	72-139	100		01/18/17 23:56	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	65-127	100		01/18/17 23:56	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.0**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: TB-1 **Lab ID: 50163047008** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1.1		01/20/17 17:20	67-64-1	
Acrolein	ND	mg/kg	0.11	1.1		01/20/17 17:20	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1.1		01/20/17 17:20	107-13-1	
Benzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	71-43-2	
Bromobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-27-4	
Bromoform	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-25-2	
Bromomethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.028	1.1		01/20/17 17:20	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1.1		01/20/17 17:20	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0055	1.1		01/20/17 17:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-90-7	
Chloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-00-3	
Chloroform	ND	mg/kg	0.0055	1.1		01/20/17 17:20	67-66-3	
Chloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-93-4	
Dibromomethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1.1		01/20/17 17:20	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1.1		01/20/17 17:20	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	87-68-3	
n-Hexane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1.1		01/20/17 17:20	591-78-6	
Iodomethane	ND	mg/kg	0.11	1.1		01/20/17 17:20	74-88-4	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: TB-1 **Lab ID: 50163047008** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0055	1.1		01/20/17 17:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1.1		01/20/17 17:20	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.011	1.1		01/20/17 17:20	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.011	1.1		01/20/17 17:20	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.028	1.1		01/20/17 17:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0055	1.1		01/20/17 17:20	1634-04-4	
Naphthalene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	103-65-1	
Styrene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	127-18-4	
Toluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1.1		01/20/17 17:20	108-05-4	
Vinyl chloride	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1.1		01/20/17 17:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	70-128	1.1		01/20/17 17:20	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1.1		01/20/17 17:20	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1.1		01/20/17 17:20	460-00-4	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370480 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

METHOD BLANK: 1710596 Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	01/23/17 10:52	

LABORATORY CONTROL SAMPLE: 1710597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.8	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710598 1710599

Parameter	Units	50163047004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	11.5	55	56.8	56.3	53.4	81	74	75-125	5	20	M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370445 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

METHOD BLANK: 1710449 | Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1-Methylnaphthalene	mg/kg	ND	0.010	01/18/17 14:32	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
2-Butanone (MEK)	mg/kg	ND	0.025	01/18/17 14:32	
2-Chlorotoluene	mg/kg	ND	0.0050	01/18/17 14:32	
2-Hexanone	mg/kg	ND	0.10	01/18/17 14:32	
2-Methylnaphthalene	mg/kg	ND	0.010	01/18/17 14:32	
4-Chlorotoluene	mg/kg	ND	0.0050	01/18/17 14:32	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/18/17 14:32	
Acetone	mg/kg	ND	0.10	01/18/17 14:32	
Acrolein	mg/kg	ND	0.10	01/18/17 14:32	
Acrylonitrile	mg/kg	ND	0.10	01/18/17 14:32	
Benzene	mg/kg	ND	0.0050	01/18/17 14:32	
Bromobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Bromochloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Bromodichloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Bromoform	mg/kg	ND	0.0050	01/18/17 14:32	
Bromomethane	mg/kg	ND	0.0050	01/18/17 14:32	
Carbon disulfide	mg/kg	ND	0.010	01/18/17 14:32	
Carbon tetrachloride	mg/kg	ND	0.0050	01/18/17 14:32	
Chlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Chloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
Chloroform	mg/kg	ND	0.0050	01/18/17 14:32	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1710449 Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
Dibromochloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Dibromomethane	mg/kg	ND	0.0050	01/18/17 14:32	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Ethyl methacrylate	mg/kg	ND	0.10	01/18/17 14:32	
Ethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/18/17 14:32	
Iodomethane	mg/kg	ND	0.10	01/18/17 14:32	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/18/17 14:32	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/18/17 14:32	
Methylene Chloride	mg/kg	ND	0.020	01/18/17 14:32	
n-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
n-Hexane	mg/kg	ND	0.0050	01/18/17 14:32	
n-Propylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Naphthalene	mg/kg	ND	0.0050	01/18/17 14:32	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/18/17 14:32	
sec-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Styrene	mg/kg	ND	0.0050	01/18/17 14:32	
tert-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Tetrachloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
Toluene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/18/17 14:32	
Trichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Vinyl acetate	mg/kg	ND	0.10	01/18/17 14:32	
Vinyl chloride	mg/kg	ND	0.0050	01/18/17 14:32	
Xylene (Total)	mg/kg	ND	0.010	01/18/17 14:32	
4-Bromofluorobenzene (S)	%.	102	65-127	01/18/17 14:32	
Dibromofluoromethane (S)	%.	103	70-128	01/18/17 14:32	
Toluene-d8 (S)	%.	102	72-139	01/18/17 14:32	

LABORATORY CONTROL SAMPLE: 1710450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.048	97	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	98	67-129	
1,1-Dichloroethene	mg/kg	.05	0.046	92	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.047	94	66-118	
1,2-Dichloropropane	mg/kg	.05	0.052	104	74-119	
Benzene	mg/kg	.05	0.045	91	72-120	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1710450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.047	93	72-115	
Chloroform	mg/kg	.05	0.047	94	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.048	96	74-115	
Ethylbenzene	mg/kg	.05	0.047	93	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.046	92	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.048	96	68-123	
Naphthalene	mg/kg	.05	0.044	87	63-125	
Tetrachloroethene	mg/kg	.05	0.047	94	66-118	
Toluene	mg/kg	.05	0.048	96	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.049	97	71-120	
Trichloroethene	mg/kg	.05	0.047	95	73-120	
Vinyl chloride	mg/kg	.05	0.051	103	54-155	
Xylene (Total)	mg/kg	.15	0.14	96	69-122	
4-Bromofluorobenzene (S)	%.			102	65-127	
Dibromofluoromethane (S)	%.			97	70-128	
Toluene-d8 (S)	%.			103	72-139	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370656
QC Batch Method: EPA 8260
Associated Lab Samples: 50163047004

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics

METHOD BLANK: 1711348
Matrix: Solid
Associated Lab Samples: 50163047004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1-Methylnaphthalene	mg/kg	ND	0.010	01/19/17 16:16	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
2-Butanone (MEK)	mg/kg	ND	0.025	01/19/17 16:16	
2-Chlorotoluene	mg/kg	ND	0.0050	01/19/17 16:16	
2-Hexanone	mg/kg	ND	0.10	01/19/17 16:16	
2-Methylnaphthalene	mg/kg	ND	0.010	01/19/17 16:16	
4-Chlorotoluene	mg/kg	ND	0.0050	01/19/17 16:16	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/19/17 16:16	
Acetone	mg/kg	ND	0.10	01/19/17 16:16	
Acrolein	mg/kg	ND	0.10	01/19/17 16:16	
Acrylonitrile	mg/kg	ND	0.10	01/19/17 16:16	
Benzene	mg/kg	ND	0.0050	01/19/17 16:16	
Bromobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Bromochloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Bromodichloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Bromoform	mg/kg	ND	0.0050	01/19/17 16:16	
Bromomethane	mg/kg	ND	0.0050	01/19/17 16:16	
Carbon disulfide	mg/kg	ND	0.010	01/19/17 16:16	
Carbon tetrachloride	mg/kg	ND	0.0050	01/19/17 16:16	
Chlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Chloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
Chloroform	mg/kg	ND	0.0050	01/19/17 16:16	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1711348 Matrix: Solid
Associated Lab Samples: 50163047004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
Dibromochloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Dibromomethane	mg/kg	ND	0.0050	01/19/17 16:16	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Ethyl methacrylate	mg/kg	ND	0.10	01/19/17 16:16	
Ethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/19/17 16:16	
Iodomethane	mg/kg	ND	0.10	01/19/17 16:16	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/19/17 16:16	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/19/17 16:16	
Methylene Chloride	mg/kg	ND	0.020	01/19/17 16:16	
n-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
n-Hexane	mg/kg	ND	0.0050	01/19/17 16:16	
n-Propylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Naphthalene	mg/kg	ND	0.0050	01/19/17 16:16	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/19/17 16:16	
sec-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Styrene	mg/kg	ND	0.0050	01/19/17 16:16	
tert-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Tetrachloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
Toluene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/19/17 16:16	
Trichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Vinyl acetate	mg/kg	ND	0.10	01/19/17 16:16	
Vinyl chloride	mg/kg	ND	0.0050	01/19/17 16:16	
Xylene (Total)	mg/kg	ND	0.010	01/19/17 16:16	
4-Bromofluorobenzene (S)	%.	102	65-127	01/19/17 16:16	
Dibromofluoromethane (S)	%.	101	70-128	01/19/17 16:16	
Toluene-d8 (S)	%.	104	72-139	01/19/17 16:16	

LABORATORY CONTROL SAMPLE: 1711349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.051	103	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	100	67-129	
1,1-Dichloroethene	mg/kg	.05	0.050	101	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	100	66-118	
1,2-Dichloropropane	mg/kg	.05	0.053	106	74-119	
Benzene	mg/kg	.05	0.049	99	72-120	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1711349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.048	97	72-115	
Chloroform	mg/kg	.05	0.051	101	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.051	101	74-115	
Ethylbenzene	mg/kg	.05	0.050	99	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.050	99	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.049	98	68-123	
Naphthalene	mg/kg	.05	0.046	92	63-125	
Tetrachloroethene	mg/kg	.05	0.050	99	66-118	
Toluene	mg/kg	.05	0.052	105	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.051	103	71-120	
Trichloroethene	mg/kg	.05	0.049	97	73-120	
Vinyl chloride	mg/kg	.05	0.080	160	54-155	L0
Xylene (Total)	mg/kg	.15	0.15	102	69-122	
4-Bromofluorobenzene (S)	%.			103	65-127	
Dibromofluoromethane (S)	%.			96	70-128	
Toluene-d8 (S)	%.			105	72-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711350 1711351

Parameter	Units	50163047004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.055	.047	0.051	0.049	93	102	37-144	5	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.055	.047	0.052	0.048	94	99	12-174	8	20	
1,1-Dichloroethene	mg/kg	ND	.055	.047	0.053	0.050	96	103	36-162	6	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.055	.047	0.050	0.048	90	101	10-157	2	20	
1,2-Dichloropropane	mg/kg	ND	.055	.047	0.056	0.050	102	105	43-138	10	20	
Benzene	mg/kg	ND	.055	.047	0.049	0.048	89	99	36-144	3	20	
Chlorobenzene	mg/kg	ND	.055	.047	0.050	0.047	90	98	16-140	5	20	
Chloroform	mg/kg	ND	.055	.047	0.051	0.048	92	100	39-136	5	20	
cis-1,2-Dichloroethene	mg/kg	ND	.055	.047	0.052	0.049	95	102	34-143	7	20	
Ethylbenzene	mg/kg	ND	.055	.047	0.050	0.050	92	105	15-147	0	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.055	.047	0.049	0.048	89	99	10-163	3	20	
Methyl-tert-butyl ether	mg/kg	ND	.055	.047	0.051	0.048	93	99	48-145	7	20	
Naphthalene	mg/kg	ND	.055	.047	0.045	0.043	83	90	10-132	5	20	
Tetrachloroethene	mg/kg	ND	.055	.047	0.050	0.051	91	106	14-156	2	20	
Toluene	mg/kg	ND	.055	.047	0.053	0.050	95	102	24-151	6	20	
trans-1,2-Dichloroethene	mg/kg	ND	.055	.047	0.053	0.050	96	105	33-147	5	20	
Trichloroethene	mg/kg	ND	.055	.047	0.051	0.047	92	98	21-164	8	20	
Vinyl chloride	mg/kg	ND	.055	.047	0.078	0.048	142	101	32-177	47	20	R1
Xylene (Total)	mg/kg	ND	.16	.15	0.15	0.14	93	99	12-148	8	20	
4-Bromofluorobenzene (S)	%.						105	102	65-127			
Dibromofluoromethane (S)	%.						97	93	70-128			
Toluene-d8 (S)	%.						108	107	72-139			

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370955
QC Batch Method: EPA 8260
Associated Lab Samples: 50163047008

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics

METHOD BLANK: 1712872
Matrix: Solid
Associated Lab Samples: 50163047008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1-Methylnaphthalene	mg/kg	ND	0.010	01/20/17 15:27	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
2-Butanone (MEK)	mg/kg	ND	0.025	01/20/17 15:27	
2-Chlorotoluene	mg/kg	ND	0.0050	01/20/17 15:27	
2-Hexanone	mg/kg	ND	0.10	01/20/17 15:27	
2-Methylnaphthalene	mg/kg	ND	0.010	01/20/17 15:27	
4-Chlorotoluene	mg/kg	ND	0.0050	01/20/17 15:27	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/20/17 15:27	
Acetone	mg/kg	ND	0.10	01/20/17 15:27	
Acrolein	mg/kg	ND	0.10	01/20/17 15:27	
Acrylonitrile	mg/kg	ND	0.10	01/20/17 15:27	
Benzene	mg/kg	ND	0.0050	01/20/17 15:27	
Bromobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Bromochloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Bromodichloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Bromoform	mg/kg	ND	0.0050	01/20/17 15:27	
Bromomethane	mg/kg	ND	0.0050	01/20/17 15:27	
Carbon disulfide	mg/kg	ND	0.010	01/20/17 15:27	
Carbon tetrachloride	mg/kg	ND	0.0050	01/20/17 15:27	
Chlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Chloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
Chloroform	mg/kg	ND	0.0050	01/20/17 15:27	

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1712872 Matrix: Solid
Associated Lab Samples: 50163047008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
Dibromochloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Dibromomethane	mg/kg	ND	0.0050	01/20/17 15:27	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Ethyl methacrylate	mg/kg	ND	0.10	01/20/17 15:27	
Ethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/20/17 15:27	
Iodomethane	mg/kg	ND	0.10	01/20/17 15:27	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/20/17 15:27	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/20/17 15:27	
Methylene Chloride	mg/kg	ND	0.020	01/20/17 15:27	
n-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
n-Hexane	mg/kg	ND	0.0050	01/20/17 15:27	
n-Propylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Naphthalene	mg/kg	ND	0.0050	01/20/17 15:27	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/20/17 15:27	
sec-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Styrene	mg/kg	ND	0.0050	01/20/17 15:27	
tert-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Tetrachloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
Toluene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/20/17 15:27	
Trichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Vinyl acetate	mg/kg	ND	0.10	01/20/17 15:27	
Vinyl chloride	mg/kg	ND	0.0050	01/20/17 15:27	
Xylene (Total)	mg/kg	ND	0.010	01/20/17 15:27	
4-Bromofluorobenzene (S)	%.	102	65-127	01/20/17 15:27	
Dibromofluoromethane (S)	%.	104	70-128	01/20/17 15:27	
Toluene-d8 (S)	%.	102	72-139	01/20/17 15:27	

LABORATORY CONTROL SAMPLE: 1712873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	100	67-129	
1,1-Dichloroethene	mg/kg	.05	0.052	104	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	100	66-118	
1,2-Dichloropropane	mg/kg	.05	0.054	107	74-119	
Benzene	mg/kg	.05	0.050	101	72-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1712873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.047	94	72-115	
Chloroform	mg/kg	.05	0.050	100	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.051	102	74-115	
Ethylbenzene	mg/kg	.05	0.050	100	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.047	95	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.051	102	68-123	
Naphthalene	mg/kg	.05	0.050	100	63-125	
Tetrachloroethene	mg/kg	.05	0.057	113	66-118	
Toluene	mg/kg	.05	0.057	115	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	104	71-120	
Trichloroethene	mg/kg	.05	0.049	98	73-120	
Vinyl chloride	mg/kg	.05	0.050	100	54-155	
Xylene (Total)	mg/kg	.15	0.14	93	69-122	
4-Bromofluorobenzene (S)	%.			95	65-127	
Dibromofluoromethane (S)	%.			95	70-128	
Toluene-d8 (S)	%.			115	72-139	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370454 | Analysis Method: SM 2540G
QC Batch Method: SM 2540G | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

SAMPLE DUPLICATE: 1710474

Parameter	Units	50163047004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.9	20.1	1	5	

SAMPLE DUPLICATE: 1710475

Parameter	Units	50163048001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	14.4	3	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.057 mg/kg, based on the MDL. TMW 01-19-17
D4	Sample was diluted due to the presence of high levels of target analytes.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50163047001	**GP-1 4-6'**	EPA 3050	370480	EPA 6010	370911
50163047002	**GP-1 10-12'**	EPA 3050	370480	EPA 6010	370911
50163047003	**GP-2 2-4'**	EPA 3050	370480	EPA 6010	370911
50163047004	**GP-2 12-14'**	EPA 3050	370480	EPA 6010	370911
50163047005	**GP-3 2-4'**	EPA 3050	370480	EPA 6010	370911
50163047006	**GP-3 14-16'**	EPA 3050	370480	EPA 6010	370911
50163047007	**FD-1**	EPA 3050	370480	EPA 6010	370911
50163047001	**GP-1 4-6'**	EPA 8260	370445		
50163047002	**GP-1 10-12'**	EPA 8260	370445		
50163047003	**GP-2 2-4'**	EPA 8260	370445		
50163047004	**GP-2 12-14'**	EPA 8260	370656		
50163047005	**GP-3 2-4'**	EPA 8260	370445		
50163047006	**GP-3 14-16'**	EPA 8260	370445		
50163047007	**FD-1**	EPA 8260	370445		
50163047008	**TB-1**	EPA 8260	370955		
50163047001	**GP-1 4-6'**	SM 2540G	370454		
50163047002	**GP-1 10-12'**	SM 2540G	370454		
50163047003	**GP-2 2-4'**	SM 2540G	370454		
50163047004	**GP-2 12-14'**	SM 2540G	370454		
50163047005	**GP-3 2-4'**	SM 2540G	370454		
50163047006	**GP-3 14-16'**	SM 2540G	370454		
50163047007	**FD-1**	SM 2540G	370454		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2044146

Section A Required Client Information:

Company: IWM Consulting Group
Address: 7428 Rockville Rd
Indianapolis, IN
Email To: bgentry@iwmconsult.com
Phone: 317-111 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Brad Gentry
Copy To:
Purchase Order No.:
Project Name: Quick Shop
Project Number: IN17802

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Ken Hunt
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER RCG

Site Location STATE: IN

50163047

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	T. Lead	% moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-1 4-6'	SL	G			1/16/17	1320		4	1						1	2	✓	✓	✓		001
2	GP-1 10-12'						1330		4	1						1	2	✓	✓	✓		002
3	GP-2 2-4'						1135		4	1						1	2	✓	✓	✓		003
4	GP-2 12-14' (ms/msd)						1145		10	2						2	6	✓	✓	✓		004
5	GP-3 2-4'						1030		4	1						1	2	✓	✓	✓		005
6	GP-3 14-16'						1045		4	1						1	2	✓	✓	✓		006
7	FB-1						–		4	1						1	2	✓	✓	✓		007
8	TB-1 (Unpreserved)	WT					–										2	✓				008
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
report napthalenes on VOC scan,	[signature] / IWM	1/17/17	1:15	[signature]	1-17-17	1:15	1.4	Y	N	
level 4 QA/QC										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christopher D. Sahoo

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/16/17

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical™ Client Name: IWM Project # S0143047

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 1·17·17 1418

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other Ziploc

Thermometer 1 2 3 4 5 6 A B C D E F **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.4/1.4 **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Initial/Corrected)

Temp should be above freezing to 6°C

Date and initials of person examining contents: MH 1·17·17

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6. TC
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No	9.
All containers needing acid/base pres. have been checked? **exceptions: VOA, coliform, TOC, O&G** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No	15
Trip Blank Custody Seals Present	☐Yes ☑No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 1/17/17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: IWM

COC PAGE 1 of 1
COC ID# 2044146

SBS DI Bulk Kit

Project # 50103047

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1			1		3																SL			
2			1		3																			
3			1		3																			
4			2		8																			
5			1		3																			
6			1		3																			
7			1		3																			
8					2 trip blank																			
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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January 26, 2017

Mr. Brad Gentry
IWM Consulting
7428 Rockville Road
Indianapolis, IN 46214

RE: Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Dear Mr. Gentry:
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50163373001	**MW-1**	Water	01/20/17 11:30	01/20/17 16:55
50163373002	**MW-2**	Water	01/20/17 11:50	01/20/17 16:55
50163373003	**MW-3**	Water	01/20/17 12:30	01/20/17 16:55
50163373004	**FD-1**	Water	01/20/17 08:00	01/20/17 16:55
50163373005	**TB-1**	Water	01/20/17 08:00	01/20/17 16:55

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SAMPLE ANALYTE COUNT

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50163373001	**MW-1**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373002	**MW-2**	EPA 6010	FRW	1
		EPA 8260	DAE	76
50163373003	**MW-3**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373004	**FD-1**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373005	**TB-1**	EPA 8260	DAE	75

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SUMMARY OF DETECTION

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50163373001	**MW-1**					
EPA 6010	Lead	87.2	ug/L	10.0	01/26/17 08:01	
EPA 8260	Methyl-tert-butyl ether	9.3	ug/L	4.0	01/26/17 08:25	
50163373002	**MW-2**					
EPA 6010	Lead	68.4	ug/L	10.0	01/26/17 08:03	
50163373003	**MW-3**					
EPA 6010	Lead	126	ug/L	10.0	01/26/17 08:14	
EPA 8260	Benzene	5.3	ug/L	5.0	01/25/17 18:07	
EPA 8260	Ethylbenzene	13.8	ug/L	5.0	01/25/17 18:07	
EPA 8260	Isopropylbenzene (Cumene)	7.2	ug/L	5.0	01/25/17 18:07	
EPA 8260	1-Methylnaphthalene	9.0	ug/L	5.0	01/25/17 18:07	N2
EPA 8260	Methyl-tert-butyl ether	5.1	ug/L	4.0	01/25/17 18:07	
EPA 8260	Naphthalene	5.0	ug/L	1.7	01/25/17 18:07	
EPA 8260	n-Propylbenzene	15.1	ug/L	5.0	01/25/17 18:07	
50163373004	**FD-1**					
EPA 6010	Lead	44.6	ug/L	10.0	01/26/17 08:16	
EPA 8260	Benzene	5.1	ug/L	5.0	01/25/17 18:39	
EPA 8260	Ethylbenzene	13.6	ug/L	5.0	01/25/17 18:39	
EPA 8260	Isopropylbenzene (Cumene)	7.4	ug/L	5.0	01/25/17 18:39	
EPA 8260	1-Methylnaphthalene	8.7	ug/L	5.0	01/25/17 18:39	N2
EPA 8260	Methyl-tert-butyl ether	5.8	ug/L	4.0	01/25/17 18:39	
EPA 8260	Naphthalene	4.0	ug/L	1.7	01/25/17 18:39	
EPA 8260	n-Propylbenzene	16.4	ug/L	5.0	01/25/17 18:39	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-1 **Lab ID: 50163373001** Collected: 01/20/17 11:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**87.2**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:01	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/26/17 08:25	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/26/17 08:25	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/26/17 08:25	107-13-1	
Benzene	ND	ug/L	5.0	1		01/26/17 08:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/26/17 08:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/26/17 08:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/26/17 08:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/26/17 08:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/26/17 08:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/26/17 08:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/26/17 08:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/26/17 08:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/26/17 08:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/26/17 08:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/26/17 08:25	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/26/17 08:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/26/17 08:25	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/26/17 08:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/26/17 08:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/26/17 08:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/26/17 08:25	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/26/17 08:25	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-1 **Lab ID: 50163373001** Collected: 01/20/17 11:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/26/17 08:25	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/26/17 08:25	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/26/17 08:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/26/17 08:25	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/26/17 08:25	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/26/17 08:25	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/26/17 08:25	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/26/17 08:25	108-10-1	
Methyl-tert-butyl ether	**9.3**	ug/L	4.0	1		01/26/17 08:25	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/26/17 08:25	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	103-65-1	
Styrene	ND	ug/L	5.0	1		01/26/17 08:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/26/17 08:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/26/17 08:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/26/17 08:25	127-18-4	
Toluene	ND	ug/L	5.0	1		01/26/17 08:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/26/17 08:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/26/17 08:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/26/17 08:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		01/26/17 08:25	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-116	1		01/26/17 08:25	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		01/26/17 08:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-2 **Lab ID: 50163373002** Collected: 01/20/17 11:50 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**68.4**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:03	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 16:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 16:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 16:28	107-13-1	
Benzene	ND	ug/L	5.0	1		01/25/17 16:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 16:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 16:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 16:28	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 16:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 16:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 16:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 16:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 16:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 16:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 16:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 16:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 16:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 16:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 16:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 16:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 16:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 16:28	87-68-3	R1
n-Hexane	ND	ug/L	5.0	1		01/25/17 16:28	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-2 **Lab ID: 50163373002** Collected: 01/20/17 11:50 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 16:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 16:28	74-88-4	R1
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/25/17 16:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 16:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 16:28	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/25/17 16:28	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 16:28	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 16:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/25/17 16:28	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/25/17 16:28	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 16:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 16:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 16:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 16:28	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 16:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 16:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 16:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 16:28	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	1		01/26/17 02:39	179601-23-1	
Surrogates								
Dibromofluoromethane (S)	95	%.	84-118	1		01/25/17 16:28	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-116	1		01/25/17 16:28	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		01/25/17 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-3 **Lab ID: 50163373003** Collected: 01/20/17 12:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**126**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:14	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 18:07	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 18:07	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 18:07	107-13-1	
Benzene	**5.3**	ug/L	5.0	1		01/25/17 18:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 18:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 18:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 18:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 18:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 18:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 18:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 18:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 18:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 18:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:07	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 18:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 18:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 18:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 18:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	10061-02-6	
Ethylbenzene	**13.8**	ug/L	5.0	1		01/25/17 18:07	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 18:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 18:07	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 18:07	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-3 **Lab ID: 50163373003** Collected: 01/20/17 12:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 18:07	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 18:07	74-88-4	
Isopropylbenzene (Cumene)	**7.2**	ug/L	5.0	1		01/25/17 18:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 18:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 18:07	75-09-2	
1-Methylnaphthalene	**9.0**	ug/L	5.0	1		01/25/17 18:07	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 18:07	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 18:07	108-10-1	
Methyl-tert-butyl ether	**5.1**	ug/L	4.0	1		01/25/17 18:07	1634-04-4	
Naphthalene	**5.0**	ug/L	1.7	1		01/25/17 18:07	91-20-3	
n-Propylbenzene	**15.1**	ug/L	5.0	1		01/25/17 18:07	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 18:07	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 18:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 18:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 18:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 18:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		01/25/17 18:07	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		01/25/17 18:07	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		01/25/17 18:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: FD-1 **Lab ID: 50163373004** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**44.6**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:16	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 18:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 18:39	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 18:39	107-13-1	
Benzene	**5.1**	ug/L	5.0	1		01/25/17 18:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 18:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 18:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 18:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 18:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 18:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	10061-02-6	
Ethylbenzene	**13.6**	ug/L	5.0	1		01/25/17 18:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 18:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 18:39	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 18:39	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: FD-1 **Lab ID: 50163373004** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 18:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 18:39	74-88-4	
Isopropylbenzene (Cumene)	**7.4**	ug/L	5.0	1		01/25/17 18:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 18:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 18:39	75-09-2	
1-Methylnaphthalene	**8.7**	ug/L	5.0	1		01/25/17 18:39	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 18:39	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 18:39	108-10-1	
Methyl-tert-butyl ether	**5.8**	ug/L	4.0	1		01/25/17 18:39	1634-04-4	
Naphthalene	**4.0**	ug/L	1.7	1		01/25/17 18:39	91-20-3	
n-Propylbenzene	**16.4**	ug/L	5.0	1		01/25/17 18:39	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 18:39	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 18:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 18:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	84-118	1		01/25/17 18:39	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		01/25/17 18:39	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		01/25/17 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: TB-1 **Lab ID: 50163373005** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 01:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 01:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 01:58	107-13-1	
Benzene	ND	ug/L	5.0	1		01/25/17 01:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 01:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 01:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 01:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 01:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 01:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 01:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 01:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 01:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 01:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 01:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 01:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 01:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 01:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 01:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 01:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 01:58	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/25/17 01:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 01:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/25/17 01:58	98-82-8	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: TB-1 **Lab ID: 50163373005** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 01:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 01:58	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/25/17 01:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 01:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 01:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/25/17 01:58	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/25/17 01:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 01:58	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 01:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 01:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 01:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 01:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		01/25/17 01:58	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		01/25/17 01:58	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		01/25/17 01:58	2037-26-5	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 370859 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50163373001, 50163373002, 50163373003, 50163373004

METHOD BLANK: 1712434 Matrix: Water
Associated Lab Samples: 50163373001, 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	01/26/17 07:58	

LABORATORY CONTROL SAMPLE: 1712435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	937	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712436 1712437

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	68.4	1000	1000	890	876	82	81	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371236
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50163373005

METHOD BLANK: 1713790
Matrix: Water
Associated Lab Samples: 50163373005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,3-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1-Methylnaphthalene	ug/L	ND	5.0	01/25/17 00:52	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
2-Butanone (MEK)	ug/L	ND	25.0	01/25/17 00:52	
2-Chlorotoluene	ug/L	ND	5.0	01/25/17 00:52	
2-Hexanone	ug/L	ND	25.0	01/25/17 00:52	
2-Methylnaphthalene	ug/L	ND	10.0	01/25/17 00:52	
4-Chlorotoluene	ug/L	ND	5.0	01/25/17 00:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/25/17 00:52	
Acetone	ug/L	ND	100	01/25/17 00:52	
Acrolein	ug/L	ND	50.0	01/25/17 00:52	
Acrylonitrile	ug/L	ND	100	01/25/17 00:52	
Benzene	ug/L	ND	5.0	01/25/17 00:52	
Bromobenzene	ug/L	ND	5.0	01/25/17 00:52	
Bromochloromethane	ug/L	ND	5.0	01/25/17 00:52	
Bromodichloromethane	ug/L	ND	5.0	01/25/17 00:52	
Bromoform	ug/L	ND	5.0	01/25/17 00:52	
Bromomethane	ug/L	ND	5.0	01/25/17 00:52	
Carbon disulfide	ug/L	ND	10.0	01/25/17 00:52	
Carbon tetrachloride	ug/L	ND	5.0	01/25/17 00:52	
Chlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
Chloroethane	ug/L	ND	5.0	01/25/17 00:52	
Chloroform	ug/L	ND	5.0	01/25/17 00:52	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1713790 Matrix: Water
Associated Lab Samples: 50163373005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/25/17 00:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
Dibromochloromethane	ug/L	ND	5.0	01/25/17 00:52	
Dibromomethane	ug/L	ND	5.0	01/25/17 00:52	
Dichlorodifluoromethane	ug/L	ND	5.0	01/25/17 00:52	
Ethyl methacrylate	ug/L	ND	100	01/25/17 00:52	
Ethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/25/17 00:52	
Iodomethane	ug/L	ND	10.0	01/25/17 00:52	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/25/17 00:52	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/25/17 00:52	
Methylene Chloride	ug/L	ND	5.0	01/25/17 00:52	
n-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
n-Hexane	ug/L	ND	5.0	01/25/17 00:52	
n-Propylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Naphthalene	ug/L	ND	1.7	01/25/17 00:52	
p-Isopropyltoluene	ug/L	ND	5.0	01/25/17 00:52	
sec-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Styrene	ug/L	ND	5.0	01/25/17 00:52	
tert-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Tetrachloroethene	ug/L	ND	5.0	01/25/17 00:52	
Toluene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/25/17 00:52	
Trichloroethene	ug/L	ND	5.0	01/25/17 00:52	
Trichlorofluoromethane	ug/L	ND	5.0	01/25/17 00:52	
Vinyl acetate	ug/L	ND	50.0	01/25/17 00:52	
Vinyl chloride	ug/L	ND	2.0	01/25/17 00:52	
Xylene (Total)	ug/L	ND	10.0	01/25/17 00:52	
4-Bromofluorobenzene (S)	%.	98	79-116	01/25/17 00:52	
Dibromofluoromethane (S)	%.	95	84-118	01/25/17 00:52	
Toluene-d8 (S)	%.	100	86-110	01/25/17 00:52	

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.4	91	74-130	
1,1,1-Trichloroethane	ug/L	50	42.2	84	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	72-124	
1,1,2-Trichloroethane	ug/L	50	45.0	90	75-125	
1,1-Dichloroethane	ug/L	50	43.7	87	70-120	
1,1-Dichloroethene	ug/L	50	43.8	88	69-127	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	47.4	95	81-129	
1,2,3-Trichlorobenzene	ug/L	50	47.5	95	71-130	
1,2,3-Trichloropropane	ug/L	50	49.6	99	77-127	
1,2,4-Trichlorobenzene	ug/L	50	46.5	93	66-126	
1,2,4-Trimethylbenzene	ug/L	50	47.7	95	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	46.1	92	76-125	
1,2-Dichlorobenzene	ug/L	50	46.6	93	77-122	
1,2-Dichloroethane	ug/L	50	44.6	89	70-123	
1,2-Dichloropropane	ug/L	50	43.5	87	77-124	
1,3,5-Trimethylbenzene	ug/L	50	47.7	95	75-124	
1,3-Dichlorobenzene	ug/L	50	46.2	92	76-124	
1,3-Dichloropropane	ug/L	50	47.6	95	77-123	
1,4-Dichlorobenzene	ug/L	50	43.7	87	75-117	
1-Methylnaphthalene	ug/L	50	46.7	93	55-151	N2
2,2-Dichloropropane	ug/L	50	44.9	90	44-147	
2-Butanone (MEK)	ug/L	250	213	85	60-135	
2-Chlorotoluene	ug/L	50	48.7	97	75-124	
2-Hexanone	ug/L	250	224	90	65-139	
2-Methylnaphthalene	ug/L	50	38.2	76	58-148	
4-Chlorotoluene	ug/L	50	48.7	97	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	217	87	66-134	
Acetone	ug/L	250	221	88	47-144	
Acrolein	ug/L	1000	1250	125	31-200	
Acrylonitrile	ug/L	200	177	89	64-133	
Benzene	ug/L	50	44.7	89	76-122	
Bromobenzene	ug/L	50	44.7	89	75-117	
Bromochloromethane	ug/L	50	45.3	91	74-134	
Bromodichloromethane	ug/L	50	43.4	87	71-124	
Bromoform	ug/L	50	38.9	78	60-125	
Bromomethane	ug/L	50	52.8	106	23-194	
Carbon disulfide	ug/L	50	42.3	85	63-130	
Carbon tetrachloride	ug/L	50	44.1	88	73-133	
Chlorobenzene	ug/L	50	44.8	90	76-118	
Chloroethane	ug/L	50	48.7	97	50-147	
Chloroform	ug/L	50	46.5	93	70-119	
Chloromethane	ug/L	50	44.1	88	52-136	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	74-120	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	71-134	
Dibromochloromethane	ug/L	50	42.7	85	73-127	
Dibromomethane	ug/L	50	44.8	90	75-124	
Dichlorodifluoromethane	ug/L	50	56.8	114	39-166	
Ethyl methacrylate	ug/L	200	180	90	73-136	
Ethylbenzene	ug/L	50	46.7	93	75-123	
Hexachloro-1,3-butadiene	ug/L	50	47.4	95	70-125	
Iodomethane	ug/L	100	89.3	89	56-142	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	84-134	
Methyl-tert-butyl ether	ug/L	50	41.6	83	65-131	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	47.4	95	66-130	
n-Butylbenzene	ug/L	50	48.4	97	70-127	
n-Hexane	ug/L	50	43.9	88	64-131	
n-Propylbenzene	ug/L	50	53.8	108	78-131	
Naphthalene	ug/L	50	44.4	89	65-134	
p-Isopropyltoluene	ug/L	50	49.2	98	75-124	
sec-Butylbenzene	ug/L	50	48.9	98	83-135	
Styrene	ug/L	50	46.9	94	78-128	
tert-Butylbenzene	ug/L	50	41.0	82	62-114	
Tetrachloroethene	ug/L	50	40.1	80	69-119	
Toluene	ug/L	50	46.7	93	74-122	
trans-1,2-Dichloroethene	ug/L	50	44.8	90	72-122	
trans-1,3-Dichloropropene	ug/L	50	44.5	89	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	167	83	39-153	
Trichloroethene	ug/L	50	45.3	91	75-123	
Trichlorofluoromethane	ug/L	50	55.5	111	58-148	
Vinyl acetate	ug/L	200	167	84	67-154	
Vinyl chloride	ug/L	50	52.0	104	61-147	
Xylene (Total)	ug/L	150	141	94	75-127	
4-Bromofluorobenzene (S)	%.			105	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			100	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	32.8	36.6	66	73	44-142	11	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	31.4	35.7	63	71	51-140	13	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	36.5	37.9	73	76	49-138	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	32.4	36.9	65	74	51-138	13	20	
1,1-Dichloroethane	ug/L	ND	50	50	31.5	35.7	63	71	48-137	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	33.2	37.7	66	75	51-144	13	20	
1,1-Dichloropropene	ug/L	ND	50	50	35.8	39.1	72	78	54-150	9	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	34.9	37.1	70	74	32-140	6	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	35.6	39.4	71	79	51-139	10	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.0	36.2	68	72	27-134	6	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	35.2	37.6	70	75	32-143	7	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	33.1	36.9	66	74	52-134	11	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	34.7	36.7	69	73	38-138	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	32.7	36.1	65	72	44-144	10	20	
1,2-Dichloropropane	ug/L	ND	50	50	31.8	36.5	64	73	56-138	14	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	35.6	38.0	71	76	28-146	7	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	34.8	35.6	70	71	36-139	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	34.9	39.3	70	79	54-137	12	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	32.4	34.1	65	68	34-134	5	20	
1-Methylnaphthalene	ug/L	ND	50	50	33.2	36.7	66	73	32-150	10	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	31.9	35.0	64	70	20-142	9	20	
2-Butanone (MEK)	ug/L	ND	250	250	147	163	59	65	44-142	11	20	
2-Chlorotoluene	ug/L	ND	50	50	36.7	38.3	73	77	36-143	4	20	
2-Hexanone	ug/L	ND	250	250	163	181	65	72	43-150	10	20	
2-Methylnaphthalene	ug/L	ND	50	50	26.6	29.4	53	59	27-148	10	20	
4-Chlorotoluene	ug/L	ND	50	50	36.1	38.4	72	77	34-143	6	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	152	169	61	68	46-143	11	20	
Acetone	ug/L	ND	250	250	160	184	64	74	33-150	14	20	
Acrolein	ug/L	ND	1000	1000	855	964	86	96	32-200	12	20	
Acrylonitrile	ug/L	ND	200	200	130	142	65	71	47-143	9	20	
Benzene	ug/L	ND	50	50	32.6	36.8	65	74	51-140	12	20	
Bromobenzene	ug/L	ND	50	50	32.7	36.8	65	74	41-134	12	20	
Bromochloromethane	ug/L	ND	50	50	33.7	38.0	67	76	53-148	12	20	
Bromodichloromethane	ug/L	ND	50	50	31.2	35.6	62	71	46-137	13	20	
Bromoform	ug/L	ND	50	50	26.3	28.1	53	56	36-127	6	20	
Bromomethane	ug/L	ND	50	50	21.9	32.7	44	65	10-188	40	20	R1
Carbon disulfide	ug/L	ND	50	50	31.9	36.3	64	73	35-148	13	20	
Carbon tetrachloride	ug/L	ND	50	50	33.1	37.2	66	74	45-151	12	20	
Chlorobenzene	ug/L	ND	50	50	33.5	36.5	67	73	45-138	9	20	
Chloroethane	ug/L	ND	50	50	36.8	41.4	74	83	33-164	12	20	
Chloroform	ug/L	ND	50	50	33.9	37.4	68	75	50-135	10	20	
Chloromethane	ug/L	ND	50	50	30.8	35.9	62	72	38-146	15	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.1	39.8	74	80	43-144	7	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	31.3	35.2	63	70	42-136	12	20	
Dibromochloromethane	ug/L	ND	50	50	30.9	34.1	62	68	45-136	10	20	
Dibromomethane	ug/L	ND	50	50	32.3	35.6	65	71	51-139	10	20	
Dichlorodifluoromethane	ug/L	ND	50	50	44.4	49.0	89	98	29-174	10	20	
Ethyl methacrylate	ug/L	ND	200	200	131	140	65	70	44-150	7	20	
Ethylbenzene	ug/L	ND	50	50	34.1	38.4	68	77	36-146	12	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	37.0	39.7	74	79	14-150	7	20	
Iodomethane	ug/L	ND	100	100	46.5	68.9	47	69	28-153	39	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	36.2	40.3	72	81	43-159	10	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	30.3	32.8	61	66	43-146	8	20	
Methylene Chloride	ug/L	ND	50	50	34.4	39.1	69	78	48-140	13	20	
n-Butylbenzene	ug/L	ND	50	50	36.8	39.0	74	78	16-152	6	20	
n-Hexane	ug/L	ND	50	50	34.6	38.9	69	78	40-144	12	20	
n-Propylbenzene	ug/L	ND	50	50	40.5	42.4	81	85	28-157	5	20	
Naphthalene	ug/L	ND	50	50	31.3	34.0	63	68	38-141	8	20	
p-Isopropyltoluene	ug/L	ND	50	50	36.9	40.2	74	80	21-151	9	20	
sec-Butylbenzene	ug/L	ND	50	50	37.9	39.9	76	80	27-165	5	20	
Styrene	ug/L	ND	50	50	34.7	37.1	69	74	31-148	7	20	
tert-Butylbenzene	ug/L	ND	50	50	30.4	33.4	61	67	24-131	9	20	
Tetrachloroethene	ug/L	ND	50	50	30.9	34.0	62	68	38-139	10	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	ND	50	50	34.1	37.9	68	76	44-140	11	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	33.2	37.3	66	75	50-139	12	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	31.3	34.2	63	68	37-138	9	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	113	127	57	63	10-157	11	20	
Trichloroethene	ug/L	ND	50	50	45.0	45.9	90	92	44-146	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	43.5	48.2	87	96	41-164	10	20	
Vinyl acetate	ug/L	ND	200	200	110	120	55	60	15-146	9	20	
Vinyl chloride	ug/L	ND	50	50	39.3	45.1	79	90	43-166	14	20	
Xylene (Total)	ug/L	ND	150	150	103	113	69	76	35-146	9	20	
4-Bromofluorobenzene (S)	%.						102	105	79-116			
Dibromofluoromethane (S)	%.						101	98	84-118			
Toluene-d8 (S)	%.						100	101	86-110			

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371239 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50163373002, 50163373003, 50163373004

METHOD BLANK: 1713801 | Matrix: Water
Associated Lab Samples: 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,3-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1-Methylnaphthalene	ug/L	ND	5.0	01/25/17 12:56	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
2-Butanone (MEK)	ug/L	ND	25.0	01/25/17 12:56	
2-Chlorotoluene	ug/L	ND	5.0	01/25/17 12:56	
2-Hexanone	ug/L	ND	25.0	01/25/17 12:56	
2-Methylnaphthalene	ug/L	ND	10.0	01/25/17 12:56	
4-Chlorotoluene	ug/L	ND	5.0	01/25/17 12:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/25/17 12:56	
Acetone	ug/L	ND	100	01/25/17 12:56	
Acrolein	ug/L	ND	50.0	01/25/17 12:56	
Acrylonitrile	ug/L	ND	100	01/25/17 12:56	
Benzene	ug/L	ND	5.0	01/25/17 12:56	
Bromobenzene	ug/L	ND	5.0	01/25/17 12:56	
Bromochloromethane	ug/L	ND	5.0	01/25/17 12:56	
Bromodichloromethane	ug/L	ND	5.0	01/25/17 12:56	
Bromoform	ug/L	ND	5.0	01/25/17 12:56	
Bromomethane	ug/L	ND	5.0	01/25/17 12:56	
Carbon disulfide	ug/L	ND	10.0	01/25/17 12:56	
Carbon tetrachloride	ug/L	ND	5.0	01/25/17 12:56	
Chlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
Chloroethane	ug/L	ND	5.0	01/25/17 12:56	
Chloroform	ug/L	ND	5.0	01/25/17 12:56	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1713801 Matrix: Water
Associated Lab Samples: 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/25/17 12:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
Dibromochloromethane	ug/L	ND	5.0	01/25/17 12:56	
Dibromomethane	ug/L	ND	5.0	01/25/17 12:56	
Dichlorodifluoromethane	ug/L	ND	5.0	01/25/17 12:56	
Ethyl methacrylate	ug/L	ND	100	01/25/17 12:56	
Ethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/25/17 12:56	
Iodomethane	ug/L	ND	10.0	01/25/17 12:56	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/25/17 12:56	
m&p-Xylene	ug/L	ND	5.0	01/25/17 12:56	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/25/17 12:56	
Methylene Chloride	ug/L	ND	5.0	01/25/17 12:56	
n-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
n-Hexane	ug/L	ND	5.0	01/25/17 12:56	
n-Propylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Naphthalene	ug/L	ND	1.7	01/25/17 12:56	
p-Isopropyltoluene	ug/L	ND	5.0	01/25/17 12:56	
sec-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Styrene	ug/L	ND	5.0	01/25/17 12:56	
tert-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Tetrachloroethene	ug/L	ND	5.0	01/25/17 12:56	
Toluene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/25/17 12:56	
Trichloroethene	ug/L	ND	5.0	01/25/17 12:56	
Trichlorofluoromethane	ug/L	ND	5.0	01/25/17 12:56	
Vinyl acetate	ug/L	ND	50.0	01/25/17 12:56	
Vinyl chloride	ug/L	ND	2.0	01/25/17 12:56	
Xylene (Total)	ug/L	ND	10.0	01/25/17 12:56	
4-Bromofluorobenzene (S)	%.	98	79-116	01/25/17 12:56	
Dibromofluoromethane (S)	%.	96	84-118	01/25/17 12:56	
Toluene-d8 (S)	%.	101	86-110	01/25/17 12:56	

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	74-130	
1,1,1-Trichloroethane	ug/L	50	47.5	95	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	53.0	106	72-124	
1,1,2-Trichloroethane	ug/L	50	50.9	102	75-125	
1,1-Dichloroethane	ug/L	50	48.0	96	70-120	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	46.7	93	69-127	
1,1-Dichloropropene	ug/L	50	50.2	100	81-129	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	71-130	
1,2,3-Trichloropropane	ug/L	50	53.2	106	77-127	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	66-126	
1,2,4-Trimethylbenzene	ug/L	50	51.3	103	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	76-125	
1,2-Dichlorobenzene	ug/L	50	49.6	99	77-122	
1,2-Dichloroethane	ug/L	50	48.4	97	70-123	
1,2-Dichloropropane	ug/L	50	49.2	98	77-124	
1,3,5-Trimethylbenzene	ug/L	50	52.4	105	75-124	
1,3-Dichlorobenzene	ug/L	50	48.6	97	76-124	
1,3-Dichloropropane	ug/L	50	53.2	106	77-123	
1,4-Dichlorobenzene	ug/L	50	46.8	94	75-117	
1-Methylnaphthalene	ug/L	50	50.0	100	55-151	N2
2,2-Dichloropropane	ug/L	50	36.7	73	44-147	
2-Butanone (MEK)	ug/L	250	227	91	60-135	
2-Chlorotoluene	ug/L	50	52.2	104	75-124	
2-Hexanone	ug/L	250	251	100	65-139	
2-Methylnaphthalene	ug/L	50	40.1	80	58-148	
4-Chlorotoluene	ug/L	50	51.5	103	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	66-134	
Acetone	ug/L	250	246	98	47-144	
Acrolein	ug/L	1000	1290	129	31-200	
Acrylonitrile	ug/L	200	187	94	64-133	
Benzene	ug/L	50	47.8	96	76-122	
Bromobenzene	ug/L	50	50.8	102	75-117	
Bromochloromethane	ug/L	50	50.0	100	74-134	
Bromodichloromethane	ug/L	50	47.7	95	71-124	
Bromoform	ug/L	50	41.2	82	60-125	
Bromomethane	ug/L	50	28.7	57	23-194	
Carbon disulfide	ug/L	50	45.2	90	63-130	
Carbon tetrachloride	ug/L	50	49.0	98	73-133	
Chlorobenzene	ug/L	50	49.6	99	76-118	
Chloroethane	ug/L	50	51.7	103	50-147	
Chloroform	ug/L	50	50.6	101	70-119	
Chloromethane	ug/L	50	38.0	76	52-136	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	74-120	
cis-1,3-Dichloropropene	ug/L	50	46.6	93	71-134	
Dibromochloromethane	ug/L	50	47.4	95	73-127	
Dibromomethane	ug/L	50	49.3	99	75-124	
Dichlorodifluoromethane	ug/L	50	60.3	121	39-166	
Ethyl methacrylate	ug/L	200	201	101	73-136	
Ethylbenzene	ug/L	50	50.7	101	75-123	
Hexachloro-1,3-butadiene	ug/L	50	48.6	97	70-125	
Iodomethane	ug/L	100	84.2	84	56-142	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	84-134	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
m&p-Xylene	ug/L	100	102	102	75-127	
Methyl-tert-butyl ether	ug/L	50	45.2	90	65-131	
Methylene Chloride	ug/L	50	50.7	101	66-130	
n-Butylbenzene	ug/L	50	50.9	102	70-127	
n-Hexane	ug/L	50	42.4	85	64-131	
n-Propylbenzene	ug/L	50	56.9	114	78-131	
Naphthalene	ug/L	50	46.8	94	65-134	
p-Isopropyltoluene	ug/L	50	53.2	106	75-124	
sec-Butylbenzene	ug/L	50	52.9	106	83-135	
Styrene	ug/L	50	52.2	104	78-128	
tert-Butylbenzene	ug/L	50	43.4	87	62-114	
Tetrachloroethene	ug/L	50	44.1	88	69-119	
Toluene	ug/L	50	50.8	102	74-122	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	72-122	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	162	81	39-153	
Trichloroethene	ug/L	50	50.3	101	75-123	
Trichlorofluoromethane	ug/L	50	58.5	117	58-148	
Vinyl acetate	ug/L	200	179	89	67-154	
Vinyl chloride	ug/L	50	54.8	110	61-147	
Xylene (Total)	ug/L	150	154	103	75-127	
4-Bromofluorobenzene (S)	%.			104	79-116	
Dibromofluoromethane (S)	%.			101	84-118	
Toluene-d8 (S)	%.			101	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	34.7	38.8	69	78	44-142	11	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	34.7	38.9	69	78	51-140	12	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	39.4	41.9	79	84	49-138	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	35.6	38.8	71	78	51-138	9	20	
1,1-Dichloroethane	ug/L	ND	50	50	35.7	38.5	71	77	48-137	8	20	
1,1-Dichloroethene	ug/L	ND	50	50	36.8	40.5	74	81	51-144	10	20	
1,1-Dichloropropene	ug/L	ND	50	50	39.2	41.8	78	84	54-150	6	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	34.7	39.8	69	80	32-140	14	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	39.6	41.1	79	82	51-139	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	33.3	38.3	67	77	27-134	14	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	38.7	42.5	72	80	32-143	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	37.5	39.4	75	79	52-134	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	36.7	39.2	73	78	38-138	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	36.9	39.7	74	79	44-144	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	36.3	38.9	73	78	56-138	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	37.7	42.5	74	83	28-146	12	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	ND	50	50	35.9	38.4	72	77	36-139	7	20	
1,3-Dichloropropane	ug/L	ND	50	50	39.0	40.8	78	82	54-137	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	34.5	36.6	69	73	34-134	6	20	
1-Methylnaphthalene	ug/L	ND	50	50	35.3	41.4	71	83	32-150	16	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	26.1	29.7	52	59	20-142	13	20	
2-Butanone (MEK)	ug/L	ND	250	250	167	174	67	69	44-142	4	20	
2-Chlorotoluene	ug/L	ND	50	50	38.3	42.3	77	85	36-143	10	20	
2-Hexanone	ug/L	ND	250	250	185	198	74	79	43-150	7	20	
2-Methylnaphthalene	ug/L	ND	50	50	28.5	32.8	57	66	27-148	14	20	
4-Chlorotoluene	ug/L	ND	50	50	38.0	41.0	76	82	34-143	8	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	171	183	69	73	46-143	7	20	
Acetone	ug/L	ND	250	250	216	203	76	71	33-150	6	20	
Acrolein	ug/L	ND	1000	1000	817	837	82	84	32-200	2	20	
Acrylonitrile	ug/L	ND	200	200	147	155	74	77	47-143	5	20	
Benzene	ug/L	ND	50	50	37.1	40.4	73	80	51-140	9	20	
Bromobenzene	ug/L	ND	50	50	36.5	39.1	73	78	41-134	7	20	
Bromochloromethane	ug/L	ND	50	50	36.6	34.7	73	69	53-148	5	20	
Bromodichloromethane	ug/L	ND	50	50	35.0	37.7	70	75	46-137	7	20	
Bromoform	ug/L	ND	50	50	29.1	30.6	58	61	36-127	5	20	
Bromomethane	ug/L	ND	50	50	33.6	23.7	67	47	10-188	35	20	R1
Carbon disulfide	ug/L	ND	50	50	35.2	38.5	70	77	35-148	9	20	
Carbon tetrachloride	ug/L	ND	50	50	36.0	40.8	72	82	45-151	13	20	
Chlorobenzene	ug/L	ND	50	50	36.5	39.4	73	79	45-138	8	20	
Chloroethane	ug/L	ND	50	50	40.3	39.3	81	79	33-164	3	20	
Chloroform	ug/L	ND	50	50	37.2	41.1	74	82	50-135	10	20	
Chloromethane	ug/L	ND	50	50	30.4	31.2	61	62	38-146	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.1	40.2	74	80	43-144	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	33.5	35.5	67	71	42-136	6	20	
Dibromochloromethane	ug/L	ND	50	50	33.1	35.8	66	72	45-136	8	20	
Dibromomethane	ug/L	ND	50	50	36.4	39.1	73	78	51-139	7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	47.4	48.5	95	97	29-174	2	20	
Ethyl methacrylate	ug/L	ND	200	200	143	158	71	79	44-150	10	20	
Ethylbenzene	ug/L	ND	50	50	40.1	42.3	72	77	36-146	5	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	32.2	39.9	64	80	14-150	21	20	R1
Iodomethane	ug/L	ND	100	100	50.7	38.6	49	37	28-153	27	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	39.0	42.5	78	85	43-159	9	20	
m&p-Xylene	ug/L	ND	100	100	83.6	87.4	81	85	35-146	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	32.6	36.3	65	73	43-146	11	20	
Methylene Chloride	ug/L	ND	50	50	38.1	41.8	76	84	48-140	9	20	
n-Butylbenzene	ug/L	ND	50	50	36.3	40.2	73	80	16-152	10	20	
n-Hexane	ug/L	ND	50	50	33.3	38.4	67	77	40-144	14	20	
n-Propylbenzene	ug/L	ND	50	50	41.6	45.8	82	91	28-157	10	20	
Naphthalene	ug/L	ND	50	50	34.1	37.9	68	76	38-141	11	20	
p-Isopropyltoluene	ug/L	ND	50	50	38.5	41.9	77	84	21-151	8	20	
sec-Butylbenzene	ug/L	ND	50	50	38.1	42.5	76	85	27-165	11	20	

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(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	ND	50	50	38.1	40.4	76	81	31-148	6	20	
tert-Butylbenzene	ug/L	ND	50	50	32.1	35.3	64	71	24-131	9	20	
Tetrachloroethene	ug/L	ND	50	50	32.5	35.6	65	71	38-139	9	20	
Toluene	ug/L	ND	50	50	39.6	42.7	75	81	44-140	7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	36.8	39.4	74	79	50-139	7	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	33.5	35.7	67	71	37-138	6	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	116	124	58	62	10-157	7	20	
Trichloroethene	ug/L	ND	50	50	38.1	40.9	74	79	44-146	7	20	
Trichlorofluoromethane	ug/L	ND	50	50	46.5	50.0	93	100	41-164	7	20	
Vinyl acetate	ug/L	ND	200	200	83.5	90.6	42	45	15-146	8	20	
Vinyl chloride	ug/L	ND	50	50	42.7	44.8	85	90	43-166	5	20	
Xylene (Total)	ug/L	ND	150	150	125	131	83	87	35-146	5	20	
4-Bromofluorobenzene (S)	%.						105	101	79-116			
Dibromofluoromethane (S)	%.						98	99	84-118			
Toluene-d8 (S)	%.						101	99	86-110			

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371435
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50163373001

METHOD BLANK: 1714601
Matrix: Water
Associated Lab Samples: 50163373001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,3-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1-Methylnaphthalene	ug/L	ND	5.0	01/26/17 01:50	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
2-Butanone (MEK)	ug/L	ND	25.0	01/26/17 01:50	
2-Chlorotoluene	ug/L	ND	5.0	01/26/17 01:50	
2-Hexanone	ug/L	ND	25.0	01/26/17 01:50	
2-Methylnaphthalene	ug/L	ND	10.0	01/26/17 01:50	
4-Chlorotoluene	ug/L	ND	5.0	01/26/17 01:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/26/17 01:50	
Acetone	ug/L	ND	100	01/26/17 01:50	
Acrolein	ug/L	ND	50.0	01/26/17 01:50	
Acrylonitrile	ug/L	ND	100	01/26/17 01:50	
Benzene	ug/L	ND	5.0	01/26/17 01:50	
Bromobenzene	ug/L	ND	5.0	01/26/17 01:50	
Bromochloromethane	ug/L	ND	5.0	01/26/17 01:50	
Bromodichloromethane	ug/L	ND	5.0	01/26/17 01:50	
Bromoform	ug/L	ND	5.0	01/26/17 01:50	
Bromomethane	ug/L	ND	5.0	01/26/17 01:50	
Carbon disulfide	ug/L	ND	10.0	01/26/17 01:50	
Carbon tetrachloride	ug/L	ND	5.0	01/26/17 01:50	
Chlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
Chloroethane	ug/L	ND	5.0	01/26/17 01:50	
Chloroform	ug/L	ND	5.0	01/26/17 01:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1714601 Matrix: Water
Associated Lab Samples: 50163373001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/26/17 01:50	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
Dibromochloromethane	ug/L	ND	5.0	01/26/17 01:50	
Dibromomethane	ug/L	ND	5.0	01/26/17 01:50	
Dichlorodifluoromethane	ug/L	ND	5.0	01/26/17 01:50	
Ethyl methacrylate	ug/L	ND	100	01/26/17 01:50	
Ethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/26/17 01:50	
Iodomethane	ug/L	ND	10.0	01/26/17 01:50	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/26/17 01:50	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/26/17 01:50	
Methylene Chloride	ug/L	ND	5.0	01/26/17 01:50	
n-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
n-Hexane	ug/L	ND	5.0	01/26/17 01:50	
n-Propylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Naphthalene	ug/L	ND	1.7	01/26/17 01:50	
p-Isopropyltoluene	ug/L	ND	5.0	01/26/17 01:50	
sec-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Styrene	ug/L	ND	5.0	01/26/17 01:50	
tert-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Tetrachloroethene	ug/L	ND	5.0	01/26/17 01:50	
Toluene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/26/17 01:50	
Trichloroethene	ug/L	ND	5.0	01/26/17 01:50	
Trichlorofluoromethane	ug/L	ND	5.0	01/26/17 01:50	
Vinyl acetate	ug/L	ND	50.0	01/26/17 01:50	
Vinyl chloride	ug/L	ND	2.0	01/26/17 01:50	
Xylene (Total)	ug/L	ND	10.0	01/26/17 01:50	
4-Bromofluorobenzene (S)	%.	102	79-116	01/26/17 01:50	
Dibromofluoromethane (S)	%.	101	84-118	01/26/17 01:50	
Toluene-d8 (S)	%.	99	86-110	01/26/17 01:50	

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	74-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	72-124	
1,1,2-Trichloroethane	ug/L	50	47.5	95	75-125	
1,1-Dichloroethane	ug/L	50	45.2	90	70-120	
1,1-Dichloroethene	ug/L	50	43.1	86	69-127	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	48.7	97	81-129	
1,2,3-Trichlorobenzene	ug/L	50	48.3	97	71-130	
1,2,3-Trichloropropane	ug/L	50	51.6	103	77-127	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	66-126	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	76-125	
1,2-Dichlorobenzene	ug/L	50	48.9	98	77-122	
1,2-Dichloroethane	ug/L	50	47.7	95	70-123	
1,2-Dichloropropane	ug/L	50	45.7	91	77-124	
1,3,5-Trimethylbenzene	ug/L	50	50.6	101	75-124	
1,3-Dichlorobenzene	ug/L	50	48.1	96	76-124	
1,3-Dichloropropane	ug/L	50	49.4	99	77-123	
1,4-Dichlorobenzene	ug/L	50	45.2	90	75-117	
1-Methylnaphthalene	ug/L	50	49.1	98	55-151	N2
2,2-Dichloropropane	ug/L	50	45.0	90	44-147	
2-Butanone (MEK)	ug/L	250	222	89	60-135	
2-Chlorotoluene	ug/L	50	50.3	101	75-124	
2-Hexanone	ug/L	250	240	96	65-139	
2-Methylnaphthalene	ug/L	50	40.0	80	58-148	
4-Chlorotoluene	ug/L	50	49.5	99	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	221	88	66-134	
Acetone	ug/L	250	235	94	47-144	
Acrolein	ug/L	1000	1240	124	31-200	
Acrylonitrile	ug/L	200	181	91	64-133	
Benzene	ug/L	50	45.9	92	76-122	
Bromobenzene	ug/L	50	47.1	94	75-117	
Bromochloromethane	ug/L	50	46.6	93	74-134	
Bromodichloromethane	ug/L	50	45.7	91	71-124	
Bromoform	ug/L	50	39.7	79	60-125	
Bromomethane	ug/L	50	42.7	85	23-194	
Carbon disulfide	ug/L	50	41.0	82	63-130	
Carbon tetrachloride	ug/L	50	46.5	93	73-133	
Chlorobenzene	ug/L	50	46.9	94	76-118	
Chloroethane	ug/L	50	46.1	92	50-147	
Chloroform	ug/L	50	47.5	95	70-119	
Chloromethane	ug/L	50	35.9	72	52-136	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	74-120	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	71-134	
Dibromochloromethane	ug/L	50	44.3	89	73-127	
Dibromomethane	ug/L	50	47.1	94	75-124	
Dichlorodifluoromethane	ug/L	50	52.6	105	39-166	
Ethyl methacrylate	ug/L	200	191	95	73-136	
Ethylbenzene	ug/L	50	48.4	97	75-123	
Hexachloro-1,3-butadiene	ug/L	50	48.6	97	70-125	
Iodomethane	ug/L	100	75.6	76	56-142	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	84-134	
Methyl-tert-butyl ether	ug/L	50	42.9	86	65-131	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	46.6	93	66-130	
n-Butylbenzene	ug/L	50	49.9	100	70-127	
n-Hexane	ug/L	50	44.1	88	64-131	
n-Propylbenzene	ug/L	50	55.0	110	78-131	
Naphthalene	ug/L	50	45.4	91	65-134	
p-Isopropyltoluene	ug/L	50	50.7	101	75-124	
sec-Butylbenzene	ug/L	50	51.3	103	83-135	
Styrene	ug/L	50	49.7	99	78-128	
tert-Butylbenzene	ug/L	50	42.4	85	62-114	
Tetrachloroethene	ug/L	50	41.2	82	69-119	
Toluene	ug/L	50	47.8	96	74-122	
trans-1,2-Dichloroethene	ug/L	50	45.0	90	72-122	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	171	86	39-153	
Trichloroethene	ug/L	50	46.0	92	75-123	
Trichlorofluoromethane	ug/L	50	55.1	110	58-148	
Vinyl acetate	ug/L	200	169	84	67-154	
Vinyl chloride	ug/L	50	50.1	100	61-147	
Xylene (Total)	ug/L	150	147	98	75-127	
4-Bromofluorobenzene (S)	%.			105	79-116	
Dibromofluoromethane (S)	%.			101	84-118	
Toluene-d8 (S)	%.			101	86-110	

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QUALIFIERS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50163373001	**MW-1**	EPA 3010	370859	EPA 6010	371451
50163373002	**MW-2**	EPA 3010	370859	EPA 6010	371451
50163373003	**MW-3**	EPA 3010	370859	EPA 6010	371451
50163373004	**FD-1**	EPA 3010	370859	EPA 6010	371451
50163373001	**MW-1**	EPA 8260	371435		
50163373002	**MW-2**	EPA 8260	371239		
50163373003	**MW-3**	EPA 8260	371239		
50163373004	**FD-1**	EPA 8260	371239		
50163373005	**TB-1**	EPA 8260	371236		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2159085

Section A Required Client Information:

Company: IWM Consulting Group
Address: 7428 Rockville Rd
Indianapolis, IN 46214
Email To: bgentry@iwmconsult.com
Phone: 347-1111 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Brad Gentry
Copy To:
Purchase Order No.:
Project Name: Quick Shop - S+P Petro
Project Number: IN17002

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Ken Hunt
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER RCG

Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	Analysis Test: Tl, Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			1/20/17	1130		4		1		3					✓	✓		001
2	MW-2 (ms/msd)						1150		10		3		7					✓	✓		002
3	MW-3						1230		4		1		3					✓	✓		003
4	FD-1						—		4		1		3					✓	✓		004
5	TB-1 trip blank					1/11/17	—											✓			005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N)

50163573

SAB 1/23/17

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
report napthalenes for VOCs	[signature] IWM	1/20/17	16:55	[signature]	1/20/17	16:55
level IV QA/QC						

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christopher D. Schoo
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 01/20/17

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Twn Consult. Project # 50163373

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer 1 2 3 4 5 6 A B C D E F **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.7/0.7 **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Initial/Corrected)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 1-20-17 LE

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No	15
Trip Blank Custody Seals Present	☑Yes ☐No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hurd **Date:** 1/21/17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: IWM

COC PAGE 1 of 1
COC ID# 2159085

Project # 50163373

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R (Bulk Kit, SBS DI)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3								1												WT	✓		
2	~~3~~ 7								3												WT	✓		
3	3								1												WT	✓		
4	3								1												WT	✓		
5	1		(Trip blank)																					
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

APPENDIX H

Miscellaneous Sampling & Results
(Not Applicable)

APPENDIX I

Proposed FSI Work Plan

7428 Rockville Road | Indianapolis, IN 46214 | 317.347.1111 office | 317.347.9326 fax

February 9, 2017

Project IN17002

Mr. Greg Waltz
Indiana Department of Environmental Management
Office of Land Quality-LUST Section
100 North Senate Avenue
Indianapolis, IN 46204

Further Site Investigation Work Plan
S&P Petroleum
2801 Mt. Vernon Avenue
Evansville, Vanderburgh County, Indiana
IDEM Incident No. 201612510
IDEM FID No. 8924

Dear Mr. Waltz:

This Further Site Investigation (FSI) Work Plan is being proposed since the horizontal extent of groundwater contamination underlying the subject site was not achieved during the Initial Site Characterization (ISC) activities. Based upon a review of the data collected to date, Industrial Waste Management (IWM) Consulting Group, LLC (IWM Consulting) proposes the following FSI activities.

Sampling Plan

Based upon a review of the sampling event performed to date, the groundwater flow direction appears to be south-southwesterly. Three (3) soil borings designated GP-1 through GP-3, were advanced during the ISC. These locations were converted to permanent monitoring wells MW-1 through MW-3 immediately following soil sampling activities.

All ISC groundwater sample locations with the exception of MW-3 had concentrations of VOCs either below the laboratory reporting limits or below the most stringent corresponding Remediation Closure Guide (RCG) Screening Level. Only benzene and naphthalene were slightly above their respective RCG Residential Tap Groundwater Screening Levels (Res Tap GWSLs). Concentrations of total lead were detected above its RCG Res Tap GWSL in all of the groundwater samples. However, it is believed that the detected elevated total lead concentrations were caused by the observed natural turbidity present in the samples. Also, all soil samples had adsorbed lead concentrations less than the RCG Residential Soil Migration to Groundwater

Screening Level (Res MTGWSL). Therefore IWM Consulting believes that delineation is only necessary for VOCs from the location of MW-3.

At this time, IWM Consulting recommends and seeks approval for eliminating lead from the soil parameters list of chemicals of concern (COCs) since the highest concentration detected in the soil on-site was only 11.5 mg/kg, which is below the RCG Res MTGWSL of 270 mg/kg. IWM Consulting also recommends and seeks approval for analyzing for both total and dissolved lead for the groundwater parameters list of COCs to potentially eliminate lead in the groundwater as a COC.

As part of the initial FSI, IWM Consulting proposes installing three (3) additional on-site soil borings for the purpose of delineating groundwater contamination from the location of MW-3. The proposed boring locations depicted on the attached site map (**Figure 1)**, will provide the required delineation to the east, south, and southwest of MW-3. Currently, MW-2 provides delineation to the north and MW-1 provides delineation to the west. The final disposition of these locations is solely dependent upon possible interference from the presence of underground utilities, product piping, and surface structures.

The soil borings will be installed using a truck/track mounted Geoprobe drill rig utilizing direct push technology with continuous soil samples obtained from each soil boring. During the installation activities, one (1) confirmation soil sample will be collected in accordance with EPA Sampling Method 5035A from each of the soil borings and at the interval displaying the highest elevated photoionization detector (PID) reading or above the observed or suspected saturated unit encountered if elevated PID readings are not observed. If approved, the soil samples will only be submitted for laboratory analysis of percent moisture and volatile organic compounds (VOCs) (including 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene) using SW-846 Method 8260.

Following soil sampling activities, it is IWM Consulting's intent that all of the soil boring locations will be converted to permanent monitoring wells (MW-4 through MW-6). As per the current on-site wells, the monitoring wells will be installed using a truck/track mounted Geoprobe drill rig equipped with either 4.25-inch inside diameter hollow-stem augers or utilizing direct push technology. The monitoring wells will be constructed with varying lengths of 2-inch diameter schedule 40 PVC casing and ten (10) to fifteen (15) feet of 0.010-inch slot schedule 40 PVC screen, possibly pre-packs if installed via direct push. Sand will be poured around the screen to approximately 1 foot above the screen. Bentonite chips will be poured in the remaining annular space around the well casing and hydrated. Two foot square pads will be cut out of the existing groundcover for placement of the flush mount protective cover and associated concrete pad.

Following well installation activities, the monitoring wells will be developed via surging and purging at least 3–5 well volumes (if feasible) with a disposable bailer. Depth to groundwater measurements and groundwater samples will subsequently be obtained with a water level indicator and disposable bailer, respectively. If approved, the groundwater samples will be submitted to a laboratory for analysis of VOCs using SW-846 Method 8260 (including 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene) and both total and dissolved lead using SW-846 Method 6010.

One (1) duplicate and one (1) matrix spike/matrix spike duplicate sample will be obtained from each media type (soil and groundwater) and submitted for the same analyses in order to meet minimum quality assurance/quality control (QA/QC) requirements. A trip blank will also be submitted for analysis of VOCs using SW-846 Method 8260. In anticipation that this data will be used for delineation purposes, the laboratory will provide Level IV QA/QC documentation.

All investigation derived waste (IDW) generated (i.e. soil cuttings, well development and purge water) will be properly containerized in 55-gallon steel drums and temporarily stored onsite pending offsite disposal. Disposal documentation will be supplied to IDEM once the offsite disposal activities have been completed.

Reporting

IWM Consulting anticipates that the proposed scope of this work plan may change due to conditions encountered and also may not completely delineate the extent of contamination. Subsequent "step-out" borings/wells may be required. IWM Consulting will prepare and submit interim FSI Status Reports, if requested, after each phase of work to IDEM for review. The reports will summarize all field activities completed during the FSI activities and will include tabulated analytical data, scaled figures, and boring logs and/or well construction diagrams.

Please contact the undersigned at (317) 968-9256 if you have any questions or comments regarding this submittal.

Respectfully,

IWM Consulting Group, LLC

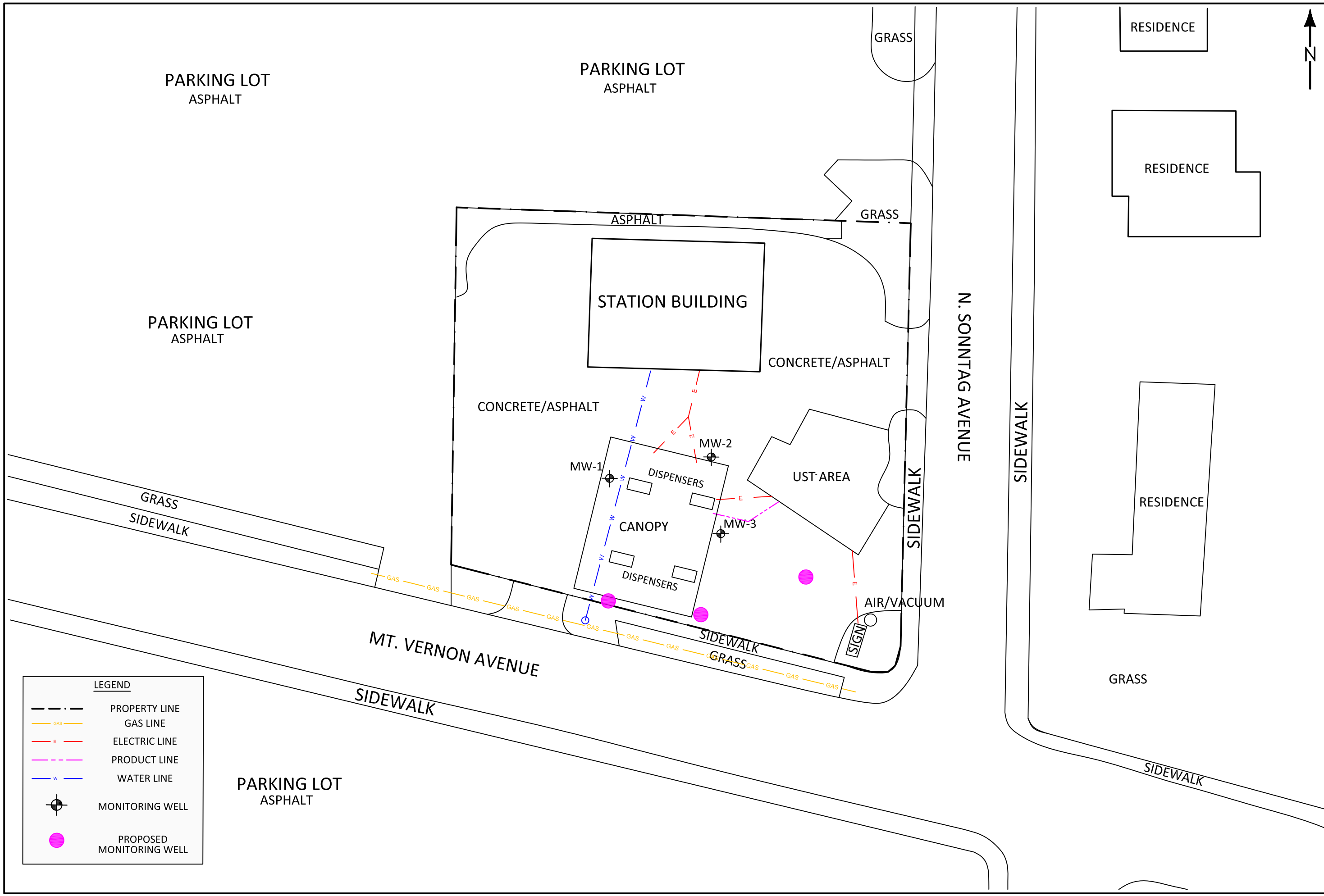
Christopher D. Schoo
Senior Staff Scientist

Brad Gentry, LPG #2165
Vice President/Brownfield Coordinator

Attachment: Proposed Boring Location Map

ATTACHMENT

PROPOSED BORING LOCATION MAP



IWM CONSULTING GROUP

QUICK SHOP SERVICE STATION
2801 MT. VERNON AVENUE
EVANSVILLE, INDIANA 47712

DRAWN BY: L. Lohnstorfer
DATE: 02/07/2017
REVISED:
JOB NUMBER: IN27002
DWG #Site Map

PROPOSED BORING LOCATION MAP (FSI)

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50163047

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January 23, 2017

Mr. Brad Gentry
IWM Consulting
7428 Rockville Road
Indianapolis, IN 46214

RE: Project: Quick Shop / IN17002
Pace Project No.: 50163047

Dear Mr. Gentry:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50163047001	**GP-1 4-6'**	Solid	01/16/17 13:20	01/17/17 13:15
50163047002	**GP-1 10-12'**	Solid	01/16/17 13:30	01/17/17 13:15
50163047003	**GP-2 2-4'**	Solid	01/16/17 11:35	01/17/17 13:15
50163047004	**GP-2 12-14'**	Solid	01/16/17 11:45	01/17/17 13:15
50163047005	**GP-3 2-4'**	Solid	01/16/17 10:30	01/17/17 13:15
50163047006	**GP-3 14-16'**	Solid	01/16/17 10:45	01/17/17 13:15
50163047007	**FD-1**	Solid	01/16/17 08:00	01/17/17 13:15
50163047008	**TB-1**	Solid	01/16/17 08:00	01/17/17 13:15

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50163047001	**GP-1 4-6'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047002	**GP-1 10-12'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047003	**GP-2 2-4'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047004	**GP-2 12-14'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047005	**GP-3 2-4'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047006	**GP-3 14-16'**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047007	**FD-1**	EPA 6010	MJC	1
		EPA 8260	TMW	75
		SM 2540G	GWA	1
50163047008	**TB-1**	EPA 8260	TMW	75

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SUMMARY OF DETECTION

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50163047001	**GP-1 4-6'**					
EPA 6010	Lead	7.8	mg/kg	1.2	01/23/17 10:54	
EPA 8260	Benzene	0.0054	mg/kg	0.0054	01/18/17 20:48	
SM 2540G	Percent Moisture	23.5	%	0.10	01/18/17 14:24	
50163047002	**GP-1 10-12'**					
EPA 6010	Lead	11.5	mg/kg	1.2	01/23/17 10:56	
EPA 8260	Methyl-tert-butyl ether	0.016	mg/kg	0.0047	01/18/17 21:26	
SM 2540G	Percent Moisture	20.4	%	0.10	01/18/17 14:24	
50163047003	**GP-2 2-4'**					
EPA 6010	Lead	5.6	mg/kg	1.2	01/23/17 11:02	
SM 2540G	Percent Moisture	19.8	%	0.10	01/18/17 14:24	
50163047004	**GP-2 12-14'**					
EPA 6010	Lead	11.5	mg/kg	1.1	01/23/17 11:04	
SM 2540G	Percent Moisture	19.9	%	0.10	01/18/17 14:25	
50163047005	**GP-3 2-4'**					
EPA 6010	Lead	8.7	mg/kg	1.1	01/23/17 11:14	
EPA 8260	n-Butylbenzene	1.0	mg/kg	0.49	01/18/17 22:41	
EPA 8260	n-Hexane	6.6	mg/kg	0.49	01/18/17 22:41	
EPA 8260	Isopropylbenzene (Cumene)	0.57	mg/kg	0.49	01/18/17 22:41	
EPA 8260	2-Methylnaphthalene	2.1	mg/kg	0.98	01/18/17 22:41	
EPA 8260	n-Propylbenzene	2.6	mg/kg	0.49	01/18/17 22:41	
SM 2540G	Percent Moisture	19.7	%	0.10	01/18/17 14:25	
50163047006	**GP-3 14-16'**					
EPA 6010	Lead	7.0	mg/kg	1.2	01/23/17 11:17	
SM 2540G	Percent Moisture	16.4	%	0.10	01/18/17 14:25	
50163047007	**FD-1**					
EPA 6010	Lead	7.9	mg/kg	1.1	01/23/17 11:19	
EPA 8260	n-Butylbenzene	1.0	mg/kg	0.51	01/18/17 23:56	
EPA 8260	n-Hexane	6.1	mg/kg	0.51	01/18/17 23:56	
EPA 8260	Isopropylbenzene (Cumene)	0.53	mg/kg	0.51	01/18/17 23:56	
EPA 8260	2-Methylnaphthalene	1.9	mg/kg	1.0	01/18/17 23:56	
EPA 8260	n-Propylbenzene	2.5	mg/kg	0.51	01/18/17 23:56	
SM 2540G	Percent Moisture	20.0	%	0.10	01/18/17 14:25	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 4-6' **Lab ID: 50163047001** Collected: 01/16/17 13:20 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.8**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 10:54	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		01/18/17 20:48	67-64-1	
Acrolein	ND	mg/kg	0.11	1		01/18/17 20:48	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		01/18/17 20:48	107-13-1	
Benzene	**0.0054**	mg/kg	0.0054	1		01/18/17 20:48	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-27-4	
Bromoform	ND	mg/kg	0.0054	1		01/18/17 20:48	75-25-2	
Bromomethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		01/18/17 20:48	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		01/18/17 20:48	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0054	1		01/18/17 20:48	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-90-7	
Chloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-00-3	
Chloroform	ND	mg/kg	0.0054	1		01/18/17 20:48	67-66-3	
Chloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0054	1		01/18/17 20:48	106-93-4	
Dibromomethane	ND	mg/kg	0.0054	1		01/18/17 20:48	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		01/18/17 20:48	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	1		01/18/17 20:48	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		01/18/17 20:48	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0054	1		01/18/17 20:48	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 4-6' **Lab ID: 50163047001** Collected: 01/16/17 13:20 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0054	1		01/18/17 20:48	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		01/18/17 20:48	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		01/18/17 20:48	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0054	1		01/18/17 20:48	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	1		01/18/17 20:48	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		01/18/17 20:48	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.011	1		01/18/17 20:48	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.011	1		01/18/17 20:48	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		01/18/17 20:48	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0054	1		01/18/17 20:48	1634-04-4	
Naphthalene	ND	mg/kg	0.0054	1		01/18/17 20:48	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	103-65-1	
Styrene	ND	mg/kg	0.0054	1		01/18/17 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	127-18-4	
Toluene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	1		01/18/17 20:48	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	1		01/18/17 20:48	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	1		01/18/17 20:48	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0054	1		01/18/17 20:48	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	1		01/18/17 20:48	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		01/18/17 20:48	108-05-4	
Vinyl chloride	ND	mg/kg	0.0054	1		01/18/17 20:48	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		01/18/17 20:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	70-128	1		01/18/17 20:48	1868-53-7	
Toluene-d8 (S)	102	%.	72-139	1		01/18/17 20:48	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1		01/18/17 20:48	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**23.5**	%	0.10	1		01/18/17 14:24		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 10-12' **Lab ID: 50163047002** Collected: 01/16/17 13:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**11.5**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 10:56	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.095	1		01/18/17 21:26	67-64-1	
Acrolein	ND	mg/kg	0.095	1		01/18/17 21:26	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		01/18/17 21:26	107-13-1	
Benzene	ND	mg/kg	0.0047	1		01/18/17 21:26	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		01/18/17 21:26	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 21:26	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		01/18/17 21:26	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		01/18/17 21:26	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		01/18/17 21:26	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		01/18/17 21:26	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		01/18/17 21:26	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		01/18/17 21:26	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 21:26	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		01/18/17 21:26	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		01/18/17 21:26	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-1 10-12' **Lab ID: 50163047002** Collected: 01/16/17 13:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0047	1		01/18/17 21:26	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		01/18/17 21:26	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		01/18/17 21:26	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		01/18/17 21:26	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		01/18/17 21:26	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 21:26	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 21:26	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 21:26	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 21:26	108-10-1	
Methyl-tert-butyl ether	**0.016**	mg/kg	0.0047	1		01/18/17 21:26	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		01/18/17 21:26	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	103-65-1	
Styrene	ND	mg/kg	0.0047	1		01/18/17 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	127-18-4	
Toluene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 21:26	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		01/18/17 21:26	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		01/18/17 21:26	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		01/18/17 21:26	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 21:26	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		01/18/17 21:26	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		01/18/17 21:26	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		01/18/17 21:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	70-128	1		01/18/17 21:26	1868-53-7	
Toluene-d8 (S)	106	%.	72-139	1		01/18/17 21:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	65-127	1		01/18/17 21:26	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.4**	%	0.10	1		01/18/17 14:24		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 2-4' **Lab ID: 50163047003** Collected: 01/16/17 11:35 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**5.6**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 11:02	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.094	1		01/18/17 22:03	67-64-1	
Acrolein	ND	mg/kg	0.094	1		01/18/17 22:03	107-02-8	
Acrylonitrile	ND	mg/kg	0.094	1		01/18/17 22:03	107-13-1	
Benzene	ND	mg/kg	0.0047	1		01/18/17 22:03	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		01/18/17 22:03	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 22:03	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	98-06-6	
Carbon disulfide	ND	mg/kg	0.0094	1		01/18/17 22:03	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		01/18/17 22:03	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		01/18/17 22:03	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		01/18/17 22:03	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		01/18/17 22:03	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.094	1		01/18/17 22:03	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/18/17 22:03	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.094	1		01/18/17 22:03	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		01/18/17 22:03	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 2-4' **Lab ID: 50163047003** Collected: 01/16/17 11:35 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0047	1		01/18/17 22:03	110-54-3	
2-Hexanone	ND	mg/kg	0.094	1		01/18/17 22:03	591-78-6	
Iodomethane	ND	mg/kg	0.094	1		01/18/17 22:03	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		01/18/17 22:03	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		01/18/17 22:03	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 22:03	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0094	1		01/18/17 22:03	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0094	1		01/18/17 22:03	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 22:03	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		01/18/17 22:03	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		01/18/17 22:03	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	103-65-1	
Styrene	ND	mg/kg	0.0047	1		01/18/17 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	127-18-4	
Toluene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		01/18/17 22:03	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		01/18/17 22:03	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		01/18/17 22:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		01/18/17 22:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		01/18/17 22:03	108-67-8	
Vinyl acetate	ND	mg/kg	0.094	1		01/18/17 22:03	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		01/18/17 22:03	75-01-4	
Xylene (Total)	ND	mg/kg	0.0094	1		01/18/17 22:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	70-128	1		01/18/17 22:03	1868-53-7	
Toluene-d8 (S)	108	%.	72-139	1		01/18/17 22:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	65-127	1		01/18/17 22:03	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.8**	%	0.10	1		01/18/17 14:24		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 12-14' **Lab ID: 50163047004** Collected: 01/16/17 11:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**11.5**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:04	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.096	1		01/19/17 16:54	67-64-1	
Acrolein	ND	mg/kg	0.096	1		01/19/17 16:54	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	1		01/19/17 16:54	107-13-1	
Benzene	ND	mg/kg	0.0048	1		01/19/17 16:54	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		01/19/17 16:54	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/19/17 16:54	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	98-06-6	
Carbon disulfide	ND	mg/kg	0.0096	1		01/19/17 16:54	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		01/19/17 16:54	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		01/19/17 16:54	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		01/19/17 16:54	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		01/19/17 16:54	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		01/19/17 16:54	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/19/17 16:54	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	1		01/19/17 16:54	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		01/19/17 16:54	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-2 12-14' **Lab ID: 50163047004** Collected: 01/16/17 11:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0048	1		01/19/17 16:54	110-54-3	
2-Hexanone	ND	mg/kg	0.096	1		01/19/17 16:54	591-78-6	
Iodomethane	ND	mg/kg	0.096	1		01/19/17 16:54	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		01/19/17 16:54	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		01/19/17 16:54	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/19/17 16:54	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0096	1		01/19/17 16:54	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0096	1		01/19/17 16:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/19/17 16:54	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		01/19/17 16:54	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		01/19/17 16:54	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	103-65-1	
Styrene	ND	mg/kg	0.0048	1		01/19/17 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	127-18-4	
Toluene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		01/19/17 16:54	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		01/19/17 16:54	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		01/19/17 16:54	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		01/19/17 16:54	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		01/19/17 16:54	108-67-8	
Vinyl acetate	ND	mg/kg	0.096	1		01/19/17 16:54	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		01/19/17 16:54	75-01-4	L3,R1
Xylene (Total)	ND	mg/kg	0.0096	1		01/19/17 16:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	70-128	1		01/19/17 16:54	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1		01/19/17 16:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1		01/19/17 16:54	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.9**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 2-4' **Lab ID: 50163047005** Collected: 01/16/17 10:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**8.7**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:14	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	9.8	100		01/18/17 22:41	67-64-1	
Acrolein	ND	mg/kg	9.8	100		01/18/17 22:41	107-02-8	
Acrylonitrile	ND	mg/kg	9.8	100		01/18/17 22:41	107-13-1	
Benzene	ND	mg/kg	0.49	100		01/18/17 22:41	71-43-2	1d
Bromobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-27-4	
Bromoform	ND	mg/kg	0.49	100		01/18/17 22:41	75-25-2	
Bromomethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.4	100		01/18/17 22:41	78-93-3	
n-Butylbenzene	**1.0**	mg/kg	0.49	100		01/18/17 22:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.98	100		01/18/17 22:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.49	100		01/18/17 22:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-90-7	
Chloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-00-3	
Chloroform	ND	mg/kg	0.49	100		01/18/17 22:41	67-66-3	
Chloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.49	100		01/18/17 22:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.49	100		01/18/17 22:41	106-43-4	
Dibromochloromethane	ND	mg/kg	0.49	100		01/18/17 22:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.49	100		01/18/17 22:41	106-93-4	
Dibromomethane	ND	mg/kg	0.49	100		01/18/17 22:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	9.8	100		01/18/17 22:41	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.49	100		01/18/17 22:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	100-41-4	
Ethyl methacrylate	ND	mg/kg	9.8	100		01/18/17 22:41	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.49	100		01/18/17 22:41	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 2-4' **Lab ID: 50163047005** Collected: 01/16/17 10:30 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	**6.6**	mg/kg	0.49	100		01/18/17 22:41	110-54-3	
2-Hexanone	ND	mg/kg	9.8	100		01/18/17 22:41	591-78-6	
Iodomethane	ND	mg/kg	9.8	100		01/18/17 22:41	74-88-4	
Isopropylbenzene (Cumene)	**0.57**	mg/kg	0.49	100		01/18/17 22:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.49	100		01/18/17 22:41	99-87-6	
Methylene Chloride	ND	mg/kg	2.0	100		01/18/17 22:41	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.98	100		01/18/17 22:41	90-12-0	N2
2-Methylnaphthalene	**2.1**	mg/kg	0.98	100		01/18/17 22:41	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.4	100		01/18/17 22:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.49	100		01/18/17 22:41	1634-04-4	
Naphthalene	ND	mg/kg	0.49	100		01/18/17 22:41	91-20-3	
n-Propylbenzene	**2.6**	mg/kg	0.49	100		01/18/17 22:41	103-65-1	
Styrene	ND	mg/kg	0.49	100		01/18/17 22:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	79-34-5	
Tetrachloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	127-18-4	
Toluene	ND	mg/kg	0.49	100		01/18/17 22:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.49	100		01/18/17 22:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.49	100		01/18/17 22:41	79-00-5	
Trichloroethene	ND	mg/kg	0.49	100		01/18/17 22:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.49	100		01/18/17 22:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.49	100		01/18/17 22:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.49	100		01/18/17 22:41	108-67-8	
Vinyl acetate	ND	mg/kg	9.8	100		01/18/17 22:41	108-05-4	
Vinyl chloride	ND	mg/kg	0.49	100		01/18/17 22:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.98	100		01/18/17 22:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	70-128	100		01/18/17 22:41	1868-53-7	D4
Toluene-d8 (S)	102	%.	72-139	100		01/18/17 22:41	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	65-127	100		01/18/17 22:41	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**19.7**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 14-16' **Lab ID: 50163047006** Collected: 01/16/17 10:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.0**	mg/kg	1.2	1	01/20/17 11:23	01/23/17 11:17	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.095	1		01/18/17 23:19	67-64-1	
Acrolein	ND	mg/kg	0.095	1		01/18/17 23:19	107-02-8	
Acrylonitrile	ND	mg/kg	0.095	1		01/18/17 23:19	107-13-1	
Benzene	ND	mg/kg	0.0048	1		01/18/17 23:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		01/18/17 23:19	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		01/18/17 23:19	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	98-06-6	
Carbon disulfide	ND	mg/kg	0.0095	1		01/18/17 23:19	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		01/18/17 23:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		01/18/17 23:19	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		01/18/17 23:19	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1		01/18/17 23:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.095	1		01/18/17 23:19	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		01/18/17 23:19	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.095	1		01/18/17 23:19	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		01/18/17 23:19	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: GP-3 14-16' **Lab ID: 50163047006** Collected: 01/16/17 10:45 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	ND	mg/kg	0.0048	1		01/18/17 23:19	110-54-3	
2-Hexanone	ND	mg/kg	0.095	1		01/18/17 23:19	591-78-6	
Iodomethane	ND	mg/kg	0.095	1		01/18/17 23:19	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		01/18/17 23:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		01/18/17 23:19	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/18/17 23:19	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 23:19	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0095	1		01/18/17 23:19	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		01/18/17 23:19	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		01/18/17 23:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		01/18/17 23:19	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	103-65-1	
Styrene	ND	mg/kg	0.0048	1		01/18/17 23:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	127-18-4	
Toluene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		01/18/17 23:19	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		01/18/17 23:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		01/18/17 23:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		01/18/17 23:19	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		01/18/17 23:19	108-67-8	
Vinyl acetate	ND	mg/kg	0.095	1		01/18/17 23:19	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		01/18/17 23:19	75-01-4	
Xylene (Total)	ND	mg/kg	0.0095	1		01/18/17 23:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	70-128	1		01/18/17 23:19	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1		01/18/17 23:19	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	65-127	1		01/18/17 23:19	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**16.4**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: FD-1 **Lab ID: 50163047007** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.9**	mg/kg	1.1	1	01/20/17 11:23	01/23/17 11:19	7439-92-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	10.2	100		01/18/17 23:56	67-64-1	
Acrolein	ND	mg/kg	10.2	100		01/18/17 23:56	107-02-8	
Acrylonitrile	ND	mg/kg	10.2	100		01/18/17 23:56	107-13-1	
Benzene	ND	mg/kg	0.51	100		01/18/17 23:56	71-43-2	1d
Bromobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-27-4	
Bromoform	ND	mg/kg	0.51	100		01/18/17 23:56	75-25-2	
Bromomethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	2.5	100		01/18/17 23:56	78-93-3	
n-Butylbenzene	**1.0**	mg/kg	0.51	100		01/18/17 23:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	98-06-6	
Carbon disulfide	ND	mg/kg	1.0	100		01/18/17 23:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.51	100		01/18/17 23:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-90-7	
Chloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-00-3	
Chloroform	ND	mg/kg	0.51	100		01/18/17 23:56	67-66-3	
Chloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.51	100		01/18/17 23:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.51	100		01/18/17 23:56	106-43-4	
Dibromochloromethane	ND	mg/kg	0.51	100		01/18/17 23:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.51	100		01/18/17 23:56	106-93-4	
Dibromomethane	ND	mg/kg	0.51	100		01/18/17 23:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	10.2	100		01/18/17 23:56	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.51	100		01/18/17 23:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	100-41-4	
Ethyl methacrylate	ND	mg/kg	10.2	100		01/18/17 23:56	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.51	100		01/18/17 23:56	87-68-3	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: FD-1 **Lab ID: 50163047007** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
n-Hexane	**6.1**	mg/kg	0.51	100		01/18/17 23:56	110-54-3	
2-Hexanone	ND	mg/kg	10.2	100		01/18/17 23:56	591-78-6	
Iodomethane	ND	mg/kg	10.2	100		01/18/17 23:56	74-88-4	
Isopropylbenzene (Cumene)	**0.53**	mg/kg	0.51	100		01/18/17 23:56	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.51	100		01/18/17 23:56	99-87-6	
Methylene Chloride	ND	mg/kg	2.0	100		01/18/17 23:56	75-09-2	
1-Methylnaphthalene	ND	mg/kg	1.0	100		01/18/17 23:56	90-12-0	N2
2-Methylnaphthalene	**1.9**	mg/kg	1.0	100		01/18/17 23:56	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	2.5	100		01/18/17 23:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.51	100		01/18/17 23:56	1634-04-4	
Naphthalene	ND	mg/kg	0.51	100		01/18/17 23:56	91-20-3	
n-Propylbenzene	**2.5**	mg/kg	0.51	100		01/18/17 23:56	103-65-1	
Styrene	ND	mg/kg	0.51	100		01/18/17 23:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	127-18-4	
Toluene	ND	mg/kg	0.51	100		01/18/17 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.51	100		01/18/17 23:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.51	100		01/18/17 23:56	79-00-5	
Trichloroethene	ND	mg/kg	0.51	100		01/18/17 23:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.51	100		01/18/17 23:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.51	100		01/18/17 23:56	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.51	100		01/18/17 23:56	108-67-8	
Vinyl acetate	ND	mg/kg	10.2	100		01/18/17 23:56	108-05-4	
Vinyl chloride	ND	mg/kg	0.51	100		01/18/17 23:56	75-01-4	
Xylene (Total)	ND	mg/kg	1.0	100		01/18/17 23:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	70-128	100		01/18/17 23:56	1868-53-7	D4
Toluene-d8 (S)	104	%.	72-139	100		01/18/17 23:56	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	65-127	100		01/18/17 23:56	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**20.0**	%	0.10	1		01/18/17 14:25		

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: TB-1 **Lab ID: 50163047008** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1.1		01/20/17 17:20	67-64-1	
Acrolein	ND	mg/kg	0.11	1.1		01/20/17 17:20	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1.1		01/20/17 17:20	107-13-1	
Benzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	71-43-2	
Bromobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-27-4	
Bromoform	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-25-2	
Bromomethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.028	1.1		01/20/17 17:20	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1.1		01/20/17 17:20	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0055	1.1		01/20/17 17:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-90-7	
Chloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-00-3	
Chloroform	ND	mg/kg	0.0055	1.1		01/20/17 17:20	67-66-3	
Chloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-93-4	
Dibromomethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1.1		01/20/17 17:20	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1.1		01/20/17 17:20	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	87-68-3	
n-Hexane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1.1		01/20/17 17:20	591-78-6	
Iodomethane	ND	mg/kg	0.11	1.1		01/20/17 17:20	74-88-4	

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ANALYTICAL RESULTS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Sample: TB-1 **Lab ID: 50163047008** Collected: 01/16/17 08:00 Received: 01/17/17 13:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0055	1.1		01/20/17 17:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1.1		01/20/17 17:20	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.011	1.1		01/20/17 17:20	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.011	1.1		01/20/17 17:20	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.028	1.1		01/20/17 17:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0055	1.1		01/20/17 17:20	1634-04-4	
Naphthalene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	103-65-1	
Styrene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	127-18-4	
Toluene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0055	1.1		01/20/17 17:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0055	1.1		01/20/17 17:20	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1.1		01/20/17 17:20	108-05-4	
Vinyl chloride	ND	mg/kg	0.0055	1.1		01/20/17 17:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1.1		01/20/17 17:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	70-128	1.1		01/20/17 17:20	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1.1		01/20/17 17:20	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	65-127	1.1		01/20/17 17:20	460-00-4	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370480 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

METHOD BLANK: 1710596 — Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	01/23/17 10:52	

LABORATORY CONTROL SAMPLE: 1710597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.8	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710598 1710599

Parameter	Units	50163047004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	11.5	55	56.8	56.3	53.4	81	74	75-125	5	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370445 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

METHOD BLANK: 1710449 | Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
1-Methylnaphthalene	mg/kg	ND	0.010	01/18/17 14:32	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/18/17 14:32	
2-Butanone (MEK)	mg/kg	ND	0.025	01/18/17 14:32	
2-Chlorotoluene	mg/kg	ND	0.0050	01/18/17 14:32	
2-Hexanone	mg/kg	ND	0.10	01/18/17 14:32	
2-Methylnaphthalene	mg/kg	ND	0.010	01/18/17 14:32	
4-Chlorotoluene	mg/kg	ND	0.0050	01/18/17 14:32	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/18/17 14:32	
Acetone	mg/kg	ND	0.10	01/18/17 14:32	
Acrolein	mg/kg	ND	0.10	01/18/17 14:32	
Acrylonitrile	mg/kg	ND	0.10	01/18/17 14:32	
Benzene	mg/kg	ND	0.0050	01/18/17 14:32	
Bromobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Bromochloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Bromodichloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Bromoform	mg/kg	ND	0.0050	01/18/17 14:32	
Bromomethane	mg/kg	ND	0.0050	01/18/17 14:32	
Carbon disulfide	mg/kg	ND	0.010	01/18/17 14:32	
Carbon tetrachloride	mg/kg	ND	0.0050	01/18/17 14:32	
Chlorobenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Chloroethane	mg/kg	ND	0.0050	01/18/17 14:32	
Chloroform	mg/kg	ND	0.0050	01/18/17 14:32	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1710449 Matrix: Solid
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047005, 50163047006, 50163047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
Dibromochloromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Dibromomethane	mg/kg	ND	0.0050	01/18/17 14:32	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Ethyl methacrylate	mg/kg	ND	0.10	01/18/17 14:32	
Ethylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/18/17 14:32	
Iodomethane	mg/kg	ND	0.10	01/18/17 14:32	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/18/17 14:32	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/18/17 14:32	
Methylene Chloride	mg/kg	ND	0.020	01/18/17 14:32	
n-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
n-Hexane	mg/kg	ND	0.0050	01/18/17 14:32	
n-Propylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Naphthalene	mg/kg	ND	0.0050	01/18/17 14:32	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/18/17 14:32	
sec-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Styrene	mg/kg	ND	0.0050	01/18/17 14:32	
tert-Butylbenzene	mg/kg	ND	0.0050	01/18/17 14:32	
Tetrachloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
Toluene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/18/17 14:32	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/18/17 14:32	
Trichloroethene	mg/kg	ND	0.0050	01/18/17 14:32	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/18/17 14:32	
Vinyl acetate	mg/kg	ND	0.10	01/18/17 14:32	
Vinyl chloride	mg/kg	ND	0.0050	01/18/17 14:32	
Xylene (Total)	mg/kg	ND	0.010	01/18/17 14:32	
4-Bromofluorobenzene (S)	%.	102	65-127	01/18/17 14:32	
Dibromofluoromethane (S)	%.	103	70-128	01/18/17 14:32	
Toluene-d8 (S)	%.	102	72-139	01/18/17 14:32	

LABORATORY CONTROL SAMPLE: 1710450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.048	97	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	98	67-129	
1,1-Dichloroethene	mg/kg	.05	0.046	92	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.047	94	66-118	
1,2-Dichloropropane	mg/kg	.05	0.052	104	74-119	
Benzene	mg/kg	.05	0.045	91	72-120	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1710450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.047	93	72-115	
Chloroform	mg/kg	.05	0.047	94	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.048	96	74-115	
Ethylbenzene	mg/kg	.05	0.047	93	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.046	92	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.048	96	68-123	
Naphthalene	mg/kg	.05	0.044	87	63-125	
Tetrachloroethene	mg/kg	.05	0.047	94	66-118	
Toluene	mg/kg	.05	0.048	96	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.049	97	71-120	
Trichloroethene	mg/kg	.05	0.047	95	73-120	
Vinyl chloride	mg/kg	.05	0.051	103	54-155	
Xylene (Total)	mg/kg	.15	0.14	96	69-122	
4-Bromofluorobenzene (S)	%.			102	65-127	
Dibromofluoromethane (S)	%.			97	70-128	
Toluene-d8 (S)	%.			103	72-139	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370656
QC Batch Method: EPA 8260
Associated Lab Samples: 50163047004

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics

METHOD BLANK: 1711348
Matrix: Solid
Associated Lab Samples: 50163047004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
1-Methylnaphthalene	mg/kg	ND	0.010	01/19/17 16:16	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/19/17 16:16	
2-Butanone (MEK)	mg/kg	ND	0.025	01/19/17 16:16	
2-Chlorotoluene	mg/kg	ND	0.0050	01/19/17 16:16	
2-Hexanone	mg/kg	ND	0.10	01/19/17 16:16	
2-Methylnaphthalene	mg/kg	ND	0.010	01/19/17 16:16	
4-Chlorotoluene	mg/kg	ND	0.0050	01/19/17 16:16	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/19/17 16:16	
Acetone	mg/kg	ND	0.10	01/19/17 16:16	
Acrolein	mg/kg	ND	0.10	01/19/17 16:16	
Acrylonitrile	mg/kg	ND	0.10	01/19/17 16:16	
Benzene	mg/kg	ND	0.0050	01/19/17 16:16	
Bromobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Bromochloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Bromodichloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Bromoform	mg/kg	ND	0.0050	01/19/17 16:16	
Bromomethane	mg/kg	ND	0.0050	01/19/17 16:16	
Carbon disulfide	mg/kg	ND	0.010	01/19/17 16:16	
Carbon tetrachloride	mg/kg	ND	0.0050	01/19/17 16:16	
Chlorobenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Chloroethane	mg/kg	ND	0.0050	01/19/17 16:16	
Chloroform	mg/kg	ND	0.0050	01/19/17 16:16	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1711348 Matrix: Solid
Associated Lab Samples: 50163047004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
Dibromochloromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Dibromomethane	mg/kg	ND	0.0050	01/19/17 16:16	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Ethyl methacrylate	mg/kg	ND	0.10	01/19/17 16:16	
Ethylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/19/17 16:16	
Iodomethane	mg/kg	ND	0.10	01/19/17 16:16	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/19/17 16:16	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/19/17 16:16	
Methylene Chloride	mg/kg	ND	0.020	01/19/17 16:16	
n-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
n-Hexane	mg/kg	ND	0.0050	01/19/17 16:16	
n-Propylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Naphthalene	mg/kg	ND	0.0050	01/19/17 16:16	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/19/17 16:16	
sec-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Styrene	mg/kg	ND	0.0050	01/19/17 16:16	
tert-Butylbenzene	mg/kg	ND	0.0050	01/19/17 16:16	
Tetrachloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
Toluene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/19/17 16:16	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/19/17 16:16	
Trichloroethene	mg/kg	ND	0.0050	01/19/17 16:16	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/19/17 16:16	
Vinyl acetate	mg/kg	ND	0.10	01/19/17 16:16	
Vinyl chloride	mg/kg	ND	0.0050	01/19/17 16:16	
Xylene (Total)	mg/kg	ND	0.010	01/19/17 16:16	
4-Bromofluorobenzene (S)	%.	102	65-127	01/19/17 16:16	
Dibromofluoromethane (S)	%.	101	70-128	01/19/17 16:16	
Toluene-d8 (S)	%.	104	72-139	01/19/17 16:16	

LABORATORY CONTROL SAMPLE: 1711349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.051	103	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	100	67-129	
1,1-Dichloroethene	mg/kg	.05	0.050	101	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	100	66-118	
1,2-Dichloropropane	mg/kg	.05	0.053	106	74-119	
Benzene	mg/kg	.05	0.049	99	72-120	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1711349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.048	97	72-115	
Chloroform	mg/kg	.05	0.051	101	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.051	101	74-115	
Ethylbenzene	mg/kg	.05	0.050	99	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.050	99	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.049	98	68-123	
Naphthalene	mg/kg	.05	0.046	92	63-125	
Tetrachloroethene	mg/kg	.05	0.050	99	66-118	
Toluene	mg/kg	.05	0.052	105	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.051	103	71-120	
Trichloroethene	mg/kg	.05	0.049	97	73-120	
Vinyl chloride	mg/kg	.05	0.080	160	54-155	L0
Xylene (Total)	mg/kg	.15	0.15	102	69-122	
4-Bromofluorobenzene (S)	%.			103	65-127	
Dibromofluoromethane (S)	%.			96	70-128	
Toluene-d8 (S)	%.			105	72-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711350 1711351

Parameter	Units	50163047004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.055	.047	0.051	0.049	93	102	37-144	5	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.055	.047	0.052	0.048	94	99	12-174	8	20	
1,1-Dichloroethene	mg/kg	ND	.055	.047	0.053	0.050	96	103	36-162	6	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.055	.047	0.050	0.048	90	101	10-157	2	20	
1,2-Dichloropropane	mg/kg	ND	.055	.047	0.056	0.050	102	105	43-138	10	20	
Benzene	mg/kg	ND	.055	.047	0.049	0.048	89	99	36-144	3	20	
Chlorobenzene	mg/kg	ND	.055	.047	0.050	0.047	90	98	16-140	5	20	
Chloroform	mg/kg	ND	.055	.047	0.051	0.048	92	100	39-136	5	20	
cis-1,2-Dichloroethene	mg/kg	ND	.055	.047	0.052	0.049	95	102	34-143	7	20	
Ethylbenzene	mg/kg	ND	.055	.047	0.050	0.050	92	105	15-147	0	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.055	.047	0.049	0.048	89	99	10-163	3	20	
Methyl-tert-butyl ether	mg/kg	ND	.055	.047	0.051	0.048	93	99	48-145	7	20	
Naphthalene	mg/kg	ND	.055	.047	0.045	0.043	83	90	10-132	5	20	
Tetrachloroethene	mg/kg	ND	.055	.047	0.050	0.051	91	106	14-156	2	20	
Toluene	mg/kg	ND	.055	.047	0.053	0.050	95	102	24-151	6	20	
trans-1,2-Dichloroethene	mg/kg	ND	.055	.047	0.053	0.050	96	105	33-147	5	20	
Trichloroethene	mg/kg	ND	.055	.047	0.051	0.047	92	98	21-164	8	20	
Vinyl chloride	mg/kg	ND	.055	.047	0.078	0.048	142	101	32-177	47	20	R1
Xylene (Total)	mg/kg	ND	.16	.15	0.15	0.14	93	99	12-148	8	20	
4-Bromofluorobenzene (S)	%.						105	102	65-127			
Dibromofluoromethane (S)	%.						97	93	70-128			
Toluene-d8 (S)	%.						108	107	72-139			

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370955
QC Batch Method: EPA 8260
Associated Lab Samples: 50163047008

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics

METHOD BLANK: 1712872
Matrix: Solid
Associated Lab Samples: 50163047008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
1-Methylnaphthalene	mg/kg	ND	0.010	01/20/17 15:27	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/20/17 15:27	
2-Butanone (MEK)	mg/kg	ND	0.025	01/20/17 15:27	
2-Chlorotoluene	mg/kg	ND	0.0050	01/20/17 15:27	
2-Hexanone	mg/kg	ND	0.10	01/20/17 15:27	
2-Methylnaphthalene	mg/kg	ND	0.010	01/20/17 15:27	
4-Chlorotoluene	mg/kg	ND	0.0050	01/20/17 15:27	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/20/17 15:27	
Acetone	mg/kg	ND	0.10	01/20/17 15:27	
Acrolein	mg/kg	ND	0.10	01/20/17 15:27	
Acrylonitrile	mg/kg	ND	0.10	01/20/17 15:27	
Benzene	mg/kg	ND	0.0050	01/20/17 15:27	
Bromobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Bromochloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Bromodichloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Bromoform	mg/kg	ND	0.0050	01/20/17 15:27	
Bromomethane	mg/kg	ND	0.0050	01/20/17 15:27	
Carbon disulfide	mg/kg	ND	0.010	01/20/17 15:27	
Carbon tetrachloride	mg/kg	ND	0.0050	01/20/17 15:27	
Chlorobenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Chloroethane	mg/kg	ND	0.0050	01/20/17 15:27	
Chloroform	mg/kg	ND	0.0050	01/20/17 15:27	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

METHOD BLANK: 1712872 Matrix: Solid
Associated Lab Samples: 50163047008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
Dibromochloromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Dibromomethane	mg/kg	ND	0.0050	01/20/17 15:27	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Ethyl methacrylate	mg/kg	ND	0.10	01/20/17 15:27	
Ethylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/20/17 15:27	
Iodomethane	mg/kg	ND	0.10	01/20/17 15:27	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/20/17 15:27	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/20/17 15:27	
Methylene Chloride	mg/kg	ND	0.020	01/20/17 15:27	
n-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
n-Hexane	mg/kg	ND	0.0050	01/20/17 15:27	
n-Propylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Naphthalene	mg/kg	ND	0.0050	01/20/17 15:27	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/20/17 15:27	
sec-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Styrene	mg/kg	ND	0.0050	01/20/17 15:27	
tert-Butylbenzene	mg/kg	ND	0.0050	01/20/17 15:27	
Tetrachloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
Toluene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/20/17 15:27	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/20/17 15:27	
Trichloroethene	mg/kg	ND	0.0050	01/20/17 15:27	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/20/17 15:27	
Vinyl acetate	mg/kg	ND	0.10	01/20/17 15:27	
Vinyl chloride	mg/kg	ND	0.0050	01/20/17 15:27	
Xylene (Total)	mg/kg	ND	0.010	01/20/17 15:27	
4-Bromofluorobenzene (S)	%.	102	65-127	01/20/17 15:27	
Dibromofluoromethane (S)	%.	104	70-128	01/20/17 15:27	
Toluene-d8 (S)	%.	102	72-139	01/20/17 15:27	

LABORATORY CONTROL SAMPLE: 1712873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	100	67-129	
1,1-Dichloroethene	mg/kg	.05	0.052	104	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	100	66-118	
1,2-Dichloropropane	mg/kg	.05	0.054	107	74-119	
Benzene	mg/kg	.05	0.050	101	72-120	

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QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

LABORATORY CONTROL SAMPLE: 1712873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.047	94	72-115	
Chloroform	mg/kg	.05	0.050	100	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.051	102	74-115	
Ethylbenzene	mg/kg	.05	0.050	100	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.047	95	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.051	102	68-123	
Naphthalene	mg/kg	.05	0.050	100	63-125	
Tetrachloroethene	mg/kg	.05	0.057	113	66-118	
Toluene	mg/kg	.05	0.057	115	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	104	71-120	
Trichloroethene	mg/kg	.05	0.049	98	73-120	
Vinyl chloride	mg/kg	.05	0.050	100	54-155	
Xylene (Total)	mg/kg	.15	0.14	93	69-122	
4-Bromofluorobenzene (S)	%.			95	65-127	
Dibromofluoromethane (S)	%.			95	70-128	
Toluene-d8 (S)	%.			115	72-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop / IN17002
Pace Project No.: 50163047

QC Batch: 370454 | Analysis Method: SM 2540G
QC Batch Method: SM 2540G | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50163047001, 50163047002, 50163047003, 50163047004, 50163047005, 50163047006, 50163047007

SAMPLE DUPLICATE: 1710474

Parameter	Units	50163047004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.9	20.1	1	5	

SAMPLE DUPLICATE: 1710475

Parameter	Units	50163048001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	14.4	3	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Quick Shop / IN17002
Pace Project No.: 50163047

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.057 mg/kg, based on the MDL. TMW 01-19-17
D4	Sample was diluted due to the presence of high levels of target analytes.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quick Shop / IN17002
Pace Project No.: 50163047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50163047001	**GP-1 4-6'**	EPA 3050	370480	EPA 6010	370911
50163047002	**GP-1 10-12'**	EPA 3050	370480	EPA 6010	370911
50163047003	**GP-2 2-4'**	EPA 3050	370480	EPA 6010	370911
50163047004	**GP-2 12-14'**	EPA 3050	370480	EPA 6010	370911
50163047005	**GP-3 2-4'**	EPA 3050	370480	EPA 6010	370911
50163047006	**GP-3 14-16'**	EPA 3050	370480	EPA 6010	370911
50163047007	**FD-1**	EPA 3050	370480	EPA 6010	370911
50163047001	**GP-1 4-6'**	EPA 8260	370445		
50163047002	**GP-1 10-12'**	EPA 8260	370445		
50163047003	**GP-2 2-4'**	EPA 8260	370445		
50163047004	**GP-2 12-14'**	EPA 8260	370656		
50163047005	**GP-3 2-4'**	EPA 8260	370445		
50163047006	**GP-3 14-16'**	EPA 8260	370445		
50163047007	**FD-1**	EPA 8260	370445		
50163047008	**TB-1**	EPA 8260	370955		
50163047001	**GP-1 4-6'**	SM 2540G	370454		
50163047002	**GP-1 10-12'**	SM 2540G	370454		
50163047003	**GP-2 2-4'**	SM 2540G	370454		
50163047004	**GP-2 12-14'**	SM 2540G	370454		
50163047005	**GP-3 2-4'**	SM 2540G	370454		
50163047006	**GP-3 14-16'**	SM 2540G	370454		
50163047007	**FD-1**	SM 2540G	370454		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2044146

Section A Required Client Information:

Company: IWM Consulting Group
Address: 7428 Rockville Rd
Indianapolis, IN
Email To: bgentry@iwmconsult.com
Phone: 317-111 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Brad Gentry
Copy To:
Purchase Order No.:
Project Name: Quick Shop
Project Number: IN17802

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Ken Hunt
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER RCG

Site Location STATE: IN

50163047

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	T. Lead	% moisture	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-1 4-6'	SL	G			1/16/17	1320		4	1						1	2	✓	✓	✓		001
2	GP-1 10-12'						1330		4	1						1	2	✓	✓	✓		002
3	GP-2 2-4'						1135		4	1						1	2	✓	✓	✓		003
4	GP-2 12-14' (ms/msd)						1145		10	2						2	6	✓	✓	✓		004
5	GP-3 2-4'						1030		4	1						1	2	✓	✓	✓		005
6	GP-3 14-16'						1045		4	1						1	2	✓	✓	✓		006
7	FB-1						–		4	1						1	2	✓	✓	✓		007
8	TB-1 Unpreserved	WT					–										2	✓				008
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
report napthalenes on VOC scan,	[signature] / IWM	1/17/17	1:15	[signature]	1-17-17	1:15	1.4	Y	N	
level 4 QA/QC										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christopher D. Sahoo
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/16/17

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical™ Client Name: IWM Project # S0143047

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 1·17·17 1418

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other Ziploc

Thermometer 1 2 3 4 5 6 A B C D E F **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.4/1.4 **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Initial/Corrected)

Temp should be above freezing to 6°C

Date and initials of person examining contents: MH 1·17·17

			Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes	☑No	1.
Chain of Custody Present:	☑Yes	☐No	2.
Chain of Custody Filled Out:	☑Yes	☐No	3.
Chain of Custody Relinquished:	☑Yes	☐No	4.
Sampler Name & Signature on COC:	☑Yes	☐No	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	6. TC
Rush Turn Around Time Requested:	☐Yes	☑No	7.
Containers Intact:	☑Yes	☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A 10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)			12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A 13
Headspace Wisconsin Sulfide	☐Yes	☐No	14
Trip Blank Present:	☑Yes	☐No	15
Trip Blank Custody Seals Present	☐Yes	☑No	
Project Manager Review			
Samples Arrived within Hold Time:	☑Yes	☐No	15.
Sufficient Volume:	☑Yes	☐No	16.
Correct Containers Used:	☑Yes	☐No	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 1/17/17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: IWM

COC PAGE 1 of 1
COC ID# 2044146

SBS DI Bulk Kit

Project # 50103047

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1			1		3																SL			
2			1		3																			
3			1		3																			
4			2		8																			
5			1		3																			
6			1		3																			
7			1		3																			
8					2 trip blank																			
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.08, 08Nov2016

MSV - FORM II VOA-1
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1710449	1710449BLANK	102	103	102
1710450	1710450LCS	102	97	103
50163047001	GP-1 4-6'	103	103	102
50163047002	GP-1 10-12'	101	101	106
50163047003	GP-2 2-4'	98	95	108
50163047005	GP-3 2-4'	104	96	102
50163047006	GP-3 14-16'	106	99	105
50163047007	FD-1	107	98	104

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(65-127)
(DIBF) = Dibromofluoromethane (S)	(70-128)
(TOL8) = Toluene-d8 (S)	(72-139)

* Values outside of QC Limits

MSV - FORM II VOA-2
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1711348	1711348BLANK	102	101	104
1711349	1711349LCS	103	96	105
1711350	1711350MS	105	97	108
50163047004	GP-2 12-14'	103	102	105

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(65-127)
(DIBF) = Dibromofluoromethane (S)	(70-128)
(TOL8) = Toluene-d8 (S)	(72-139)

* Values outside of QC Limits

MSV - FORM II VOA-1
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1711351	1711351MSD	102	93	107

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(65-127)
(DIBF) = Dibromofluoromethane (S)	(70-128)
(TOL8) = Toluene-d8 (S)	(72-139)

* Values outside of QC Limits

MSV - FORM II VOA-2
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1712872	1712872BLANK	102	104	102
1712873	1712873LCS	95	95	115
50163047008	TB-1	103	101	105

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(65-127)
(DIBF) = Dibromofluoromethane (S)	(70-128)
(TOL8) = Toluene-d8 (S)	(72-139)

* Values outside of QC Limits

MSV - FORM III VOA-1

SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1710450LCS

Date Extracted: 01/18/2017

Date Analyzed (1): 01/18/2017

Instrument: 50MV5A

LCS Lot No: 138812

Lab File ID: A011817.B\A02LCSSX.D

SDG No.: 50163047

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Benzene	0.050	0.045	91	72-120
Chlorobenzene	0.050	0.047	93	72-115
Chloroform	0.050	0.047	94	66-116
1,1-Dichloroethene	0.050	0.046	92	64-133
cis-1,2-Dichloroethene	0.050	0.048	96	74-115
trans-1,2-Dichloroethene	0.050	0.049	97	71-120
1,2-Dichloropropane	0.050	0.052	104	74-119
Ethylbenzene	0.050	0.047	93	70-121
Isopropylbenzene (Cumene)	0.050	0.046	92	78-130
Methyl-tert-butyl ether	0.050	0.048	96	68-123
Naphthalene	0.050	0.044	87	63-125
1,1,2,2-Tetrachloroethane	0.050	0.049	98	67-129
Tetrachloroethene	0.050	0.047	94	66-118
Toluene	0.050	0.048	96	68-121
1,1,1-Trichloroethane	0.050	0.048	97	67-123
Trichloroethene	0.050	0.047	95	73-120
1,2,4-Trimethylbenzene	0.050	0.047	94	66-118
Vinyl chloride	0.050	0.051	103	54-155
Xylene (Total)	0.15	0.14	96	69-122

Spike Recovery: 0 out of 19 outside limits.

01/27/2017 10:24

MSV - FORM III VOA-1

SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1711349LCS

Date Extracted: 01/19/2017

Date Analyzed (1): 01/19/2017

Instrument: 50MV5A

LCS Lot No: 139467

Lab File ID: A011917.B\A02LCSS.D

SDG No.: 50163047

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Benzene	0.050	0.049	99	72-120
Chlorobenzene	0.050	0.048	97	72-115
Chloroform	0.050	0.051	101	66-116
1,1-Dichloroethene	0.050	0.050	101	64-133
cis-1,2-Dichloroethene	0.050	0.051	101	74-115
trans-1,2-Dichloroethene	0.050	0.051	103	71-120
1,2-Dichloropropane	0.050	0.053	106	74-119
Ethylbenzene	0.050	0.050	99	70-121
Isopropylbenzene (Cumene)	0.050	0.050	99	78-130
Methyl-tert-butyl ether	0.050	0.049	98	68-123
Naphthalene	0.050	0.046	92	63-125
1,1,2,2-Tetrachloroethane	0.050	0.050	100	67-129
Tetrachloroethene	0.050	0.050	99	66-118
Toluene	0.050	0.052	105	68-121
1,1,1-Trichloroethane	0.050	0.051	103	67-123
Trichloroethene	0.050	0.049	97	73-120
1,2,4-Trimethylbenzene	0.050	0.050	100	66-118
Vinyl chloride	0.050	0.080	160	54-155
Xylene (Total)	0.15	0.15	102	69-122

Spike Recovery: 1 out of 19 outside limits.

01/27/2017 10:13

MSV - FORM III VOA-1

SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1712873LCS

Date Extracted: 01/20/2017

Date Analyzed (1): 01/20/2017

Instrument: 50MV5B

LCS Lot No: 139467

Lab File ID: B012017.B\B02LCSS.D

SDG No.: 50163047

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Benzene	0.050	0.050	101	72-120
Chlorobenzene	0.050	0.047	94	72-115
Chloroform	0.050	0.050	100	66-116
1,1-Dichloroethene	0.050	0.052	104	64-133
cis-1,2-Dichloroethene	0.050	0.051	102	74-115
trans-1,2-Dichloroethene	0.050	0.052	104	71-120
1,2-Dichloropropane	0.050	0.054	107	74-119
Ethylbenzene	0.050	0.050	100	70-121
Isopropylbenzene (Cumene)	0.050	0.047	95	78-130
Methyl-tert-butyl ether	0.050	0.051	102	68-123
Naphthalene	0.050	0.050	100	63-125
1,1,2,2-Tetrachloroethane	0.050	0.050	100	67-129
Tetrachloroethene	0.050	0.057	113	66-118
Toluene	0.050	0.057	115	68-121
1,1,1-Trichloroethane	0.050	0.052	103	67-123
Trichloroethene	0.050	0.049	98	73-120
1,2,4-Trimethylbenzene	0.050	0.050	100	66-118
Vinyl chloride	0.050	0.050	100	54-155
Xylene (Total)	0.15	0.14	93	69-122

Spike Recovery: 0 out of 19 outside limits.

01/27/2017 10:24

MSV - FORM III VOA-1

SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 1711350MS

Date Extracted: 01/19/2017

Date Analyzed (1): 01/19/2017

Instrument: 50MV5A

Lab File ID: A011917.B\A05.D

Parent Sample ID: GP-2 12-14'

SDG No.: 50163047

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	0.055	ND	0.051	93	37-144
1,1,2,2-Tetrachloroethane	0.055	ND	0.052	94	12-174
1,1-Dichloroethene	0.055	ND	0.053	96	36-162
1,2,4-Trimethylbenzene	0.055	ND	0.050	90	10-157
1,2-Dichloropropane	0.055	ND	0.056	102	43-138
Benzene	0.055	ND	0.049	89	36-144
Chlorobenzene	0.055	ND	0.050	90	16-140
Chloroform	0.055	ND	0.051	92	39-136
Ethylbenzene	0.055	ND	0.050	92	15-147
Isopropylbenzene (Cumene)	0.055	ND	0.049	89	10-163
Methyl-tert-butyl ether	0.055	ND	0.051	93	48-145
Naphthalene	0.055	ND	0.045	83	10-132
Tetrachloroethene	0.055	ND	0.050	91	14-156
Toluene	0.055	ND	0.053	95	24-151
Trichloroethene	0.055	ND	0.051	92	21-164
Vinyl chloride	0.055	ND	0.078	142	32-177
Xylene (Total)	0.16	ND	0.15	93	12-148
cis-1,2-Dichloroethene	0.055	ND	0.052	95	34-143
trans-1,2-Dichloroethene	0.055	ND	0.053	96	33-147

Spike Recovery: 0 out of 19 outside limits.

01/27/2017 10:13

MSV - FORM III VOA-2

SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV5B

Matrix Spike Duplicate - Sample No: 1711351MSD

Lab File ID (2): B012017.B\B06.D

Date Analyzed (2): 01/20/2017

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	0.048	0.049	102	5	0-20	37-144
1,1,2,2-Tetrachloroethane	0.048	0.048	99	8	0-20	12-174
1,1-Dichloroethene	0.048	0.050	103	6	0-20	36-162
1,2,4-Trimethylbenzene	0.048	0.048	101	2	0-20	10-157
1,2-Dichloropropane	0.048	0.050	105	10	0-20	43-138
Benzene	0.048	0.048	99	3	0-20	36-144
Chlorobenzene	0.048	0.047	98	5	0-20	16-140
Chloroform	0.048	0.048	100	5	0-20	39-136
Ethylbenzene	0.048	0.050	105	0	0-20	15-147
Isopropylbenzene (Cumene)	0.048	0.048	99	3	0-20	10-163
Methyl-tert-butyl ether	0.048	0.048	99	7	0-20	48-145
Naphthalene	0.048	0.043	90	5	0-20	10-132
Tetrachloroethene	0.048	0.051	106	2	0-20	14-156
Toluene	0.048	0.050	102	6	0-20	24-151
Trichloroethene	0.048	0.047	98	8	0-20	21-164
Vinyl chloride	0.048	0.048	101	47	0-20	32-177
Xylene (Total)	0.14	0.14	99	8	0-20	12-148
cis-1,2-Dichloroethene	0.048	0.049	102	7	0-20	34-143
trans-1,2-Dichloroethene	0.048	0.050	105	5	0-20	33-147

RPD: 1 out of 19 outside limits.

Spike Recovery: 0 out of 19 outside limits.

01/27/2017 10:13

SAMPLE NO.

1710449BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5A Matrix: Solid Lab Sample ID: 1710449

Lab File ID: A011817.B\A04MBSX.D Date Analyzed: 01/18/2017 Time:14:32

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1710450LCS	1710450	A011817.B\A02LCSSX.D	01/18/2017 13:16
GP-1 4-6'	50163047001	A011817.B\A14.D	01/18/2017 20:48
GP-1 10-12'	50163047002	A011817.B\A15.D	01/18/2017 21:26
GP-2 2-4'	50163047003	A011817.B\A16.D	01/18/2017 22:03
GP-3 2-4'	50163047005	A011817.B\A17.D	01/18/2017 22:41
GP-3 14-16'	50163047006	A011817.B\A18.D	01/18/2017 23:19
FD-1	50163047007	A011817.B\A19.D	01/18/2017 23:56

SAMPLE NO.

1711348BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5A Matrix: Solid Lab Sample ID: 1711348

Lab File ID: A011917.B\A03MBS.D Date Analyzed: 01/19/2017 Time:16:16

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1711349LCS	1711349	A011917.B\A02LCSS.D	01/19/2017 15:39
GP-2 12-14'	50163047004	A011917.B\A04.D	01/19/2017 16:54
1711350MS	1711350	A011917.B\A05.D	01/19/2017 17:31

SAMPLE NO.

1712872BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50MV5B Matrix: Solid Lab Sample ID: 1712872

Lab File ID: B012017.B\B04MBS.D Date Analyzed: 01/20/2017 Time:15:27

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1712873LCS	1712873	B012017.B\B02LCSS.D	01/20/2017 14:12
TB-1	50163047008	B012017.B\B07.D	01/20/2017 17:20

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Lab File ID: A011617CAL.B\A01CAL1BFB.D BFB Injection Date: 01/16/2017

Instrument ID: 50MV5A BFB Injection Time: 12:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	22.10
75	30.00 - 60.00% of mass 95	49.46
95	Base Peak, 100.00% relative abundance	100.00
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00
174	50.00 - 100.00% of mass 95	88.27
175	5.00 - 9.00% of mass 174	7.17 (8.12)[1]
176	95.00 - 101.00% of mass 174	86.70 (98.23)[1]
177	5.00 - 9.00% of mass 176	5.69 (6.57)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10894227CAL1	10894227CAL1	A011617CAL.B\A01CAL1.D	01/16/2017	12:52
10894229CAL2	10894229CAL2	A011617CAL.B\A02CAL2.D	01/16/2017	13:29
10894231CAL3	10894231CAL3	A011617CAL.B\A03CAL3.D	01/16/2017	14:07
10894226CAL4	10894226CAL4	A011617CAL.B\A04CAL4.D	01/16/2017	14:45
10894224CAL5	10894224CAL5	A011617CAL.B\A05CAL5.D	01/16/2017	15:22
10896783CCV	10896783CCV	A011617CAL.B\A06CAL6CCV.D	01/16/2017	16:00
10894228CAL6	10894228CAL6	A011617CAL.B\A06CAL6.D	01/16/2017	16:00
10894230CAL7	10894230CAL7	A011617CAL.B\A07CAL7.D	01/16/2017	16:36
10894225CAL8	10894225CAL8	A011617CAL.B\A08CAL8.D	01/16/2017	17:14
10896288ICV	10896288ICV	A011617CAL.B\A10ICV.D	01/16/2017	18:29

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Lab File ID: A011817.B\A00BFB.D BFB Injection Date: 01/18/2017

Instrument ID: 50MV5A BFB Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	23.89
75	30.00 - 60.00% of mass 95	50.78
95	Base Peak, 100.00% relative abundance	100.00
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.00
174	50.00 - 100.00% of mass 95	84.94
175	5.00 - 9.00% of mass 174	6.52 (7.67)[1]
176	95.00 - 101.00% of mass 174	83.48 (98.28)[1]
177	5.00 - 9.00% of mass 176	5.44 (6.52)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10902241CCV	10902241CCV	A011817.B\A02LCSSCCV.D	01/18/2017	13:16
1710450LCS	1710450LCS	A011817.B\A02LCSSX.D	01/18/2017	13:16
1710449BLANK	1710449BLANK	A011817.B\A04MBSX.D	01/18/2017	14:32
GP-1 4-6'	50163047001	A011817.B\A14.D	01/18/2017	20:48
GP-1 10-12'	50163047002	A011817.B\A15.D	01/18/2017	21:26
GP-2 2-4'	50163047003	A011817.B\A16.D	01/18/2017	22:03
GP-3 2-4'	50163047005	A011817.B\A17.D	01/18/2017	22:41
GP-3 14-16'	50163047006	A011817.B\A18.D	01/18/2017	23:19
FD-1	50163047007	A011817.B\A19.D	01/18/2017	23:56

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Lab File ID: A011917.B\A00BFB.D BFB Injection Date: 01/19/2017

Instrument ID: 50MV5A BFB Injection Time: 14:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	25.14
75	30.00 - 60.00% of mass 95	51.75
95	Base Peak, 100.00% relative abundance	100.00
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00
174	50.00 - 100.00% of mass 95	80.07
175	5.00 - 9.00% of mass 174	6.24 (7.80)[1]
176	95.00 - 101.00% of mass 174	76.95 (96.10)[1]
177	5.00 - 9.00% of mass 176	5.19 (6.74)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10909991CCV	10909991CCV	A011917.B\A01CCV.D	01/19/2017	15:01
1711349LCS	1711349LCS	A011917.B\A02LCSS.D	01/19/2017	15:39
1711348BLANK	1711348BLANK	A011917.B\A03MBS.D	01/19/2017	16:16
GP-2 12-14'	50163047004	A011917.B\A04.D	01/19/2017	16:54
1711350MS	1711350MS	A011917.B\A05.D	01/19/2017	17:31

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Lab File ID: B010417CAL.B\B00BFB.D BFB Injection Date: 01/04/2017

Instrument ID: 50MV5B BFB Injection Time: 14:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	15.94	
75	30.00 - 60.00% of mass 95	48.98	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.52	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	99.98	
175	5.00 - 9.00% of mass 174	7.63	(7.63)[1]
176	95.00 - 101.00% of mass 174	96.35	(96.38)[1]
177	5.00 - 9.00% of mass 176	6.20	(6.43)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10860210CAL1	10860210CAL1	B010417CAL.B\B01CAL1.D	01/04/2017	14:54
10860202CAL2	10860202CAL2	B010417CAL.B\B02CAL2.D	01/04/2017	15:31
10860212CAL3	10860212CAL3	B010417CAL.B\B03CAL3.D	01/04/2017	16:09
10860206CAL4	10860206CAL4	B010417CAL.B\B04CAL4.D	01/04/2017	16:47
10860204CAL5	10860204CAL5	B010417CAL.B\B05CAL5.D	01/04/2017	17:24
10860208CCV	10860208CCV	B010417CAL.B\B06CAL6CCV.D	01/04/2017	18:02
10860209CAL6	10860209CAL6	B010417CAL.B\B06CAL6.D	01/04/2017	18:02
10860203CAL7	10860203CAL7	B010417CAL.B\B07CAL7.D	01/04/2017	18:40
10860211CAL8	10860211CAL8	B010417CAL.B\B08CAL8.D	01/04/2017	19:17
10860213ICV	10860213ICV	B010417CAL.B\B10ICV.D	01/04/2017	20:33

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Lab File ID: B012017.B\B00BFB.D BFB Injection Date: 01/20/2017

Instrument ID: 50MV5B BFB Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	24.56
75	30.00 - 60.00% of mass 95	50.91
95	Base Peak, 100.00% relative abundance	100.00
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00
174	50.00 - 100.00% of mass 95	77.31
175	5.00 - 9.00% of mass 174	6.36 (8.23)[1]
176	95.00 - 101.00% of mass 174	75.20 (97.28)[1]
177	5.00 - 9.00% of mass 176	4.96 (6.59)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10915065CCV	10915065CCV	B012017.B\B01CCV.D	01/20/2017	13:34
1712873LCS	1712873LCS	B012017.B\B02LCSS.D	01/20/2017	14:12
1712872BLANK	1712872BLANK	B012017.B\B04MBS.D	01/20/2017	15:27
1711351MSD	1711351MSD	B012017.B\B06.D	01/20/2017	16:42
TB-1	50163047008	B012017.B\B07.D	01/20/2017	17:20

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Sample ID : 10902241CCV Date Analyzed: 01/18/2017

Instrument ID: 50MV5A GC Column: Col 1 Time Analyzed: 13:16

Lab File ID: A011817.B\A02LCSSCCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		102701	7.524	61382	9.01	132574	4.444
UPPER LIMIT		205402	8.024	122764	9.51	265148	4.944
LOWER LIMIT		51350.5	7.024	30691	8.51	66287	3.944
LAB SAMPLE ID	SAMPLE NO.						
1710449	1710449BLANK	99072	7.524	58352	9.01	119613	4.444
1710450	1710450LCS	102701	7.524	61382	9.01	132574	4.444
50163047001	GP-1 4-6'	98906	7.524	58607	9.01	123599	4.444
50163047002	GP-1 10-12'	101319	7.524	58613	9.01	131576	4.444
50163047003	GP-2 2-4'	112639	7.524	61347	9.01	146652	4.449
50163047005	GP-3 2-4'	111696	7.524	64516	9.01	142932	4.444
50163047006	GP-3 14-16'	93394	7.524	57704	9.01	123887	4.444
50163047007	FD-1	105297	7.524	60181	9.01	133116	4.444

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Sample ID : 10909991CCV Date Analyzed: 01/19/2017

Instrument ID: 50MV5A GC Column: Col 1 Time Analyzed: 15:01

Lab File ID: A011917.B\A01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		104021	7.53	62473	9.015	136455	4.454
UPPER LIMIT		208042	8.03	124946	9.515	272910	4.954
LOWER LIMIT		52010.5	7.03	31236.5	8.515	68227.5	3.954
LAB SAMPLE ID	SAMPLE NO.						
1711348	1711348BLANK	109204	7.53	63001	9.015	140282	4.454
1711349	1711349LCS	101231	7.529	61531	9.015	134141	4.454
1711350	1711350MS	95431	7.535	58477	9.015	125629	4.46
50163047004	GP-2 12-14'	102914	7.535	59273	9.015	132677	4.459

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163047 Contract: Quick Shop / IN17002

Sample ID : 10915065CCV Date Analyzed: 01/20/2017

Instrument ID: 50MV5B GC Column: Col 1 Time Analyzed: 13:34

Lab File ID: B012017.B\B01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		117619	7.54	67999	9.02	148558	4.48
UPPER LIMIT		235238	8.04	135998	9.52	297116	4.98
LOWER LIMIT		58809.5	7.04	33999.5	8.52	74279	3.98
LAB SAMPLE ID	SAMPLE NO.						
1711351	1711351MSD	110648	7.54	63167	9.02	146704	4.48
1712872	1712872BLANK	110608	7.54	64071	9.025	135865	4.48
1712873	1712873LCS	102392	7.54	56455	9.02	146470	4.48
50163047008	TB-1	120610	7.54	69801	9.02	152004	4.475

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

SAMPLE NO.

GP-1 4-6'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 20:48
Lab Sample ID: 50163047001
Date Analyzed: 01/18/2017 20:48
Lab File ID: A011817.B\A14.D
Initial wt/vol: 6.066 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 23.5%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	0.0054	
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-1 4-6'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 20:48
Lab Sample ID: 50163047001
Date Analyzed: 01/18/2017 20:48
Lab File ID: A011817.B\A14.D
Initial wt/vol: 6.066 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 23.5%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d
Lab Smp Id: 50163047001 Client Smp ID: GP-1 4-6'
Inj Date : 18-JAN-2017 20:48
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047001
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.765	1.760	(0.397)	3880	21.9947	22.0	
$ 37 Dibromofluoromethane (S)	113	3.617	3.617	(0.814)	31792	51.3468	51.3	
42 Benzene	78	4.067	4.067	(0.915)	13133	5.04165	5.04	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	123599	50.0000		
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	122524	51.0527	51.0	
58 Toluene	91	6.326	6.321	(0.841)	4420	1.54229	1.54	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	98906	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	51857	51.5102	51.5	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	58607	50.0000		
99 2,methyl-naphthalene	142	10.850	10.845	(1.204)	2359	1.71049	1.71	
150 1-Methylnaphthalene	142	10.976	10.971	(1.218)	2581	2.08020	2.08	

Review Codes Legend

:

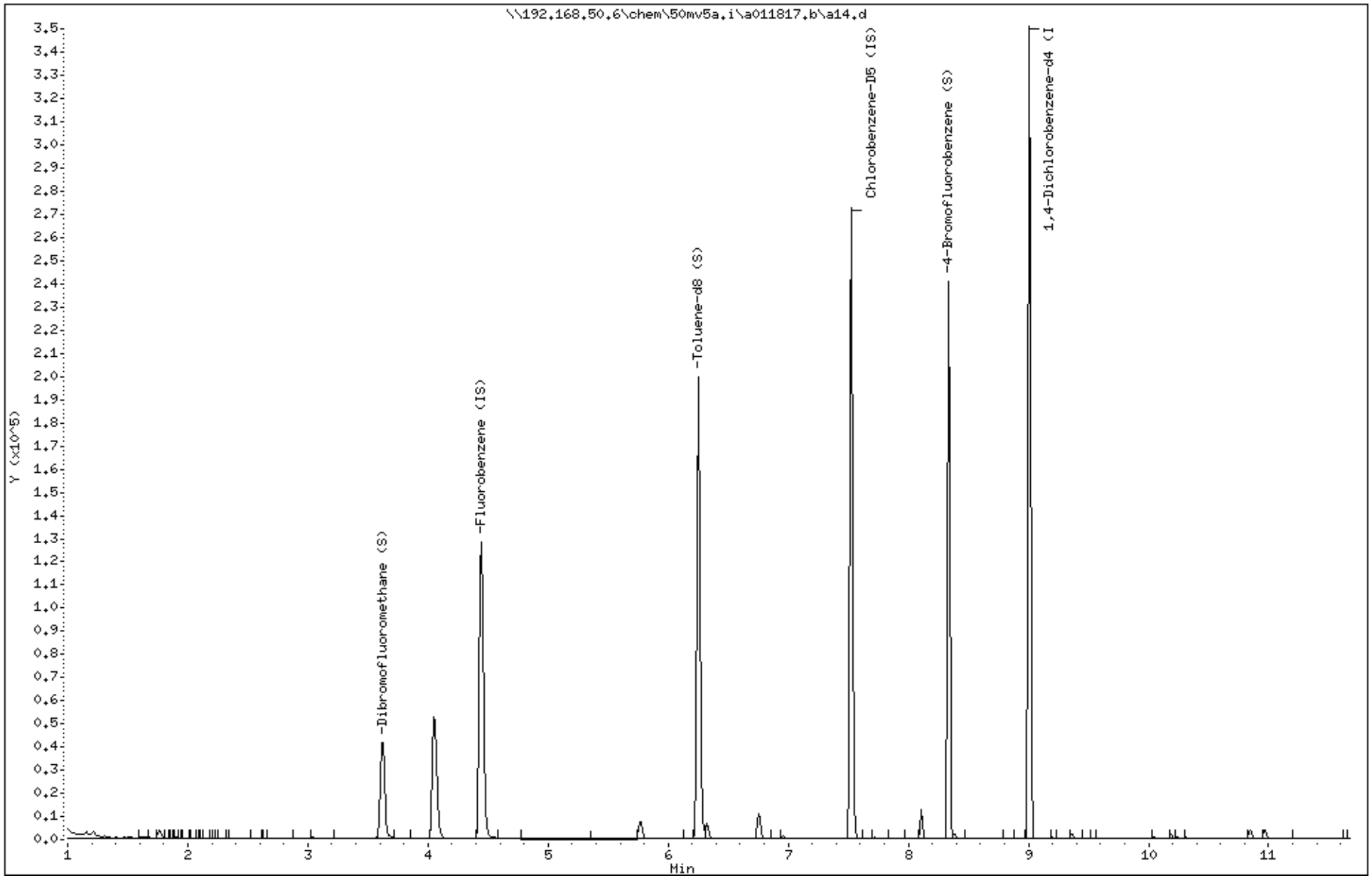
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d
Date : 18-JAN-2017 20:48
Client ID: GP-1 4-6'
Sample Info: 50163047001

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d

Date : 18-JAN-2017 20:48

Client ID: GP-1 4-6'

Instrument: 50mv5a.i

Sample Info: 50163047001

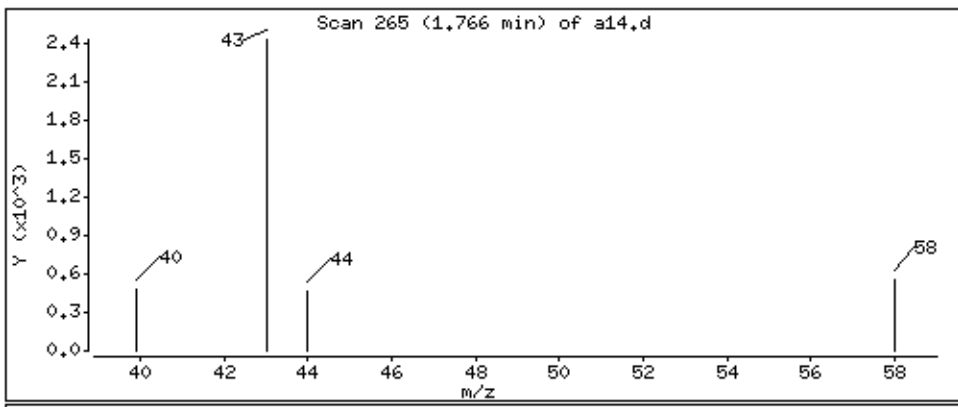
Operator: TMW

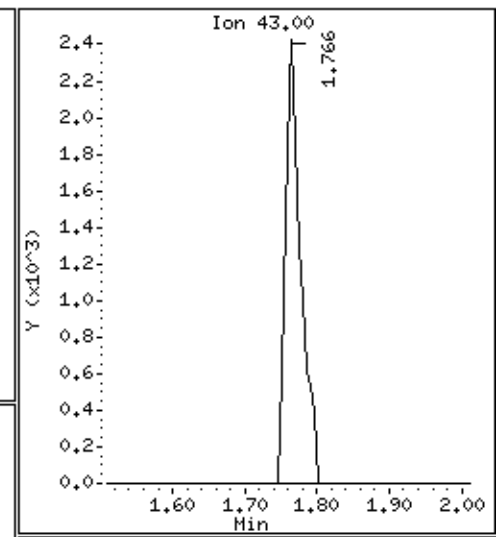
Column phase: DB-624

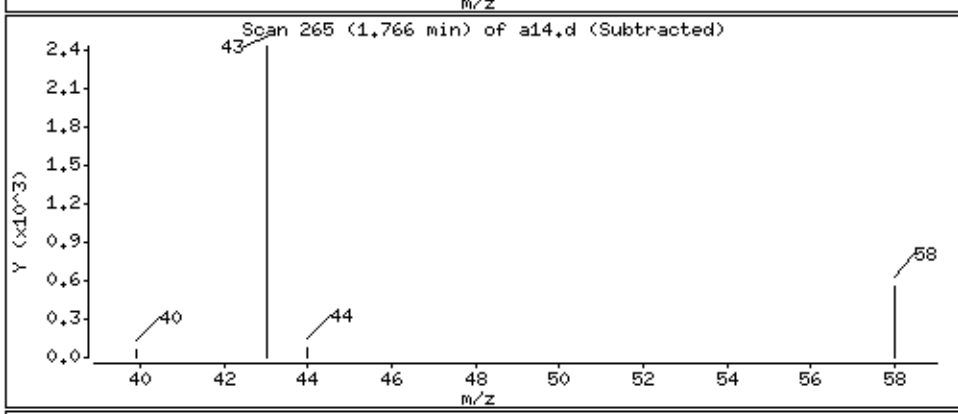
Column diameter: 0.18

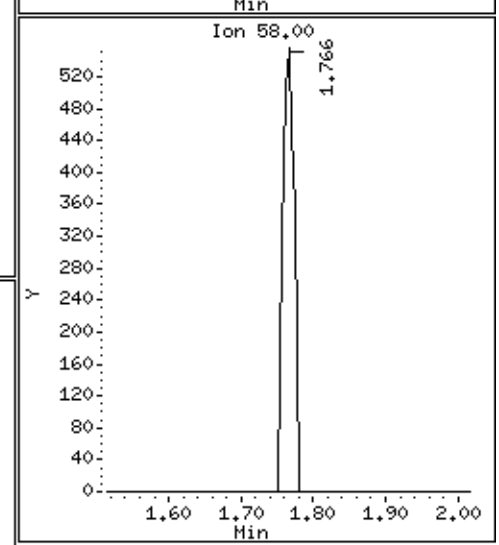
12 Acetone

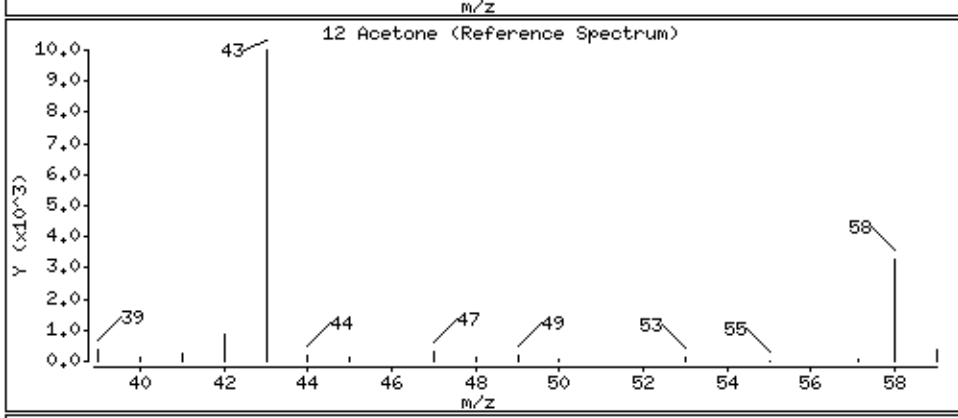
Concentration: 22.0 ppb

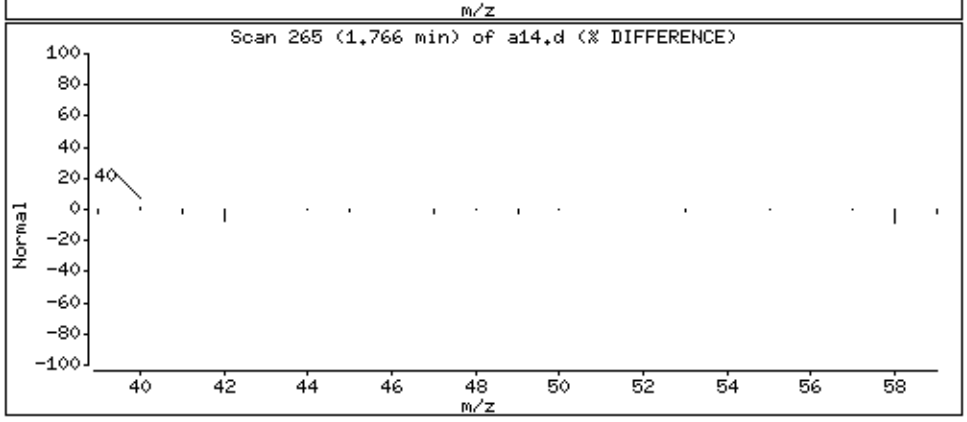












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d

Date : 18-JAN-2017 20:48

Client ID: GP-1 4-6'

Instrument: 50mv5a.i

Sample Info: 50163047001

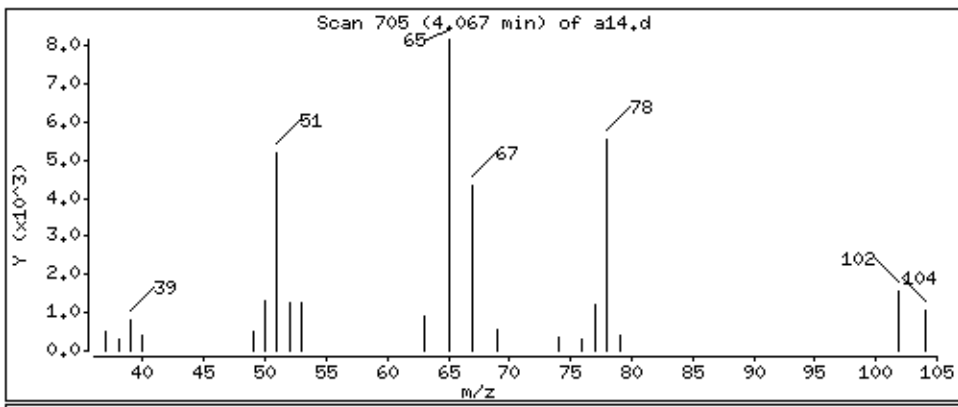
Operator: TMW

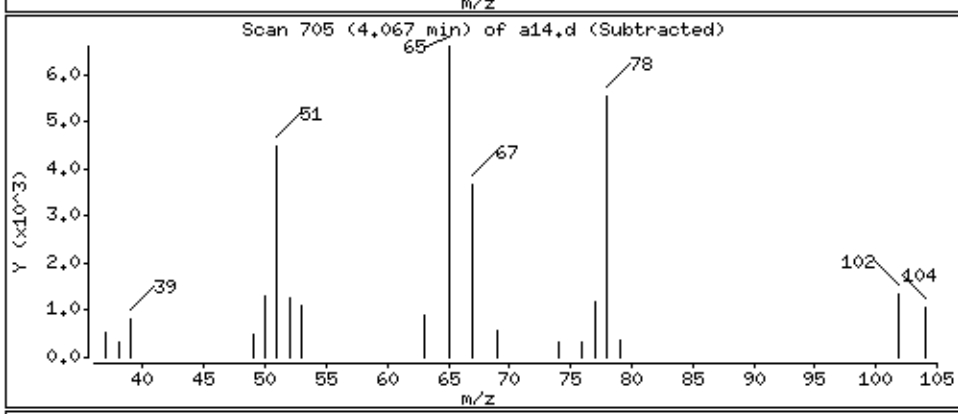
Column phase: DB-624

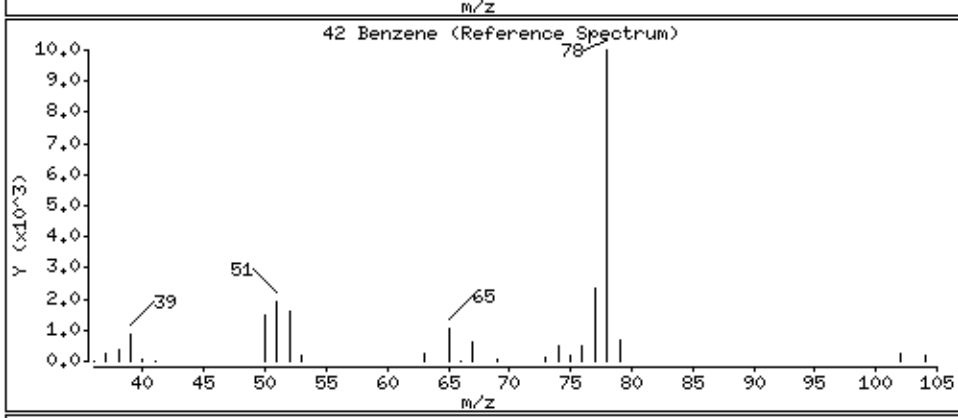
Column diameter: 0.18

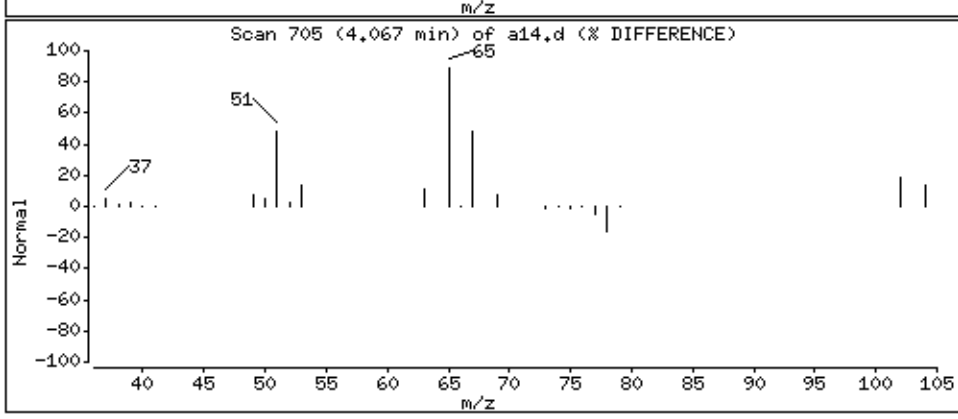
42 Benzene

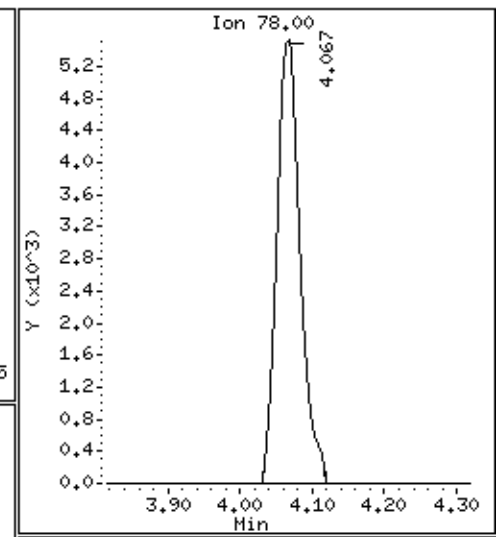
Concentration: 5.04 ppb

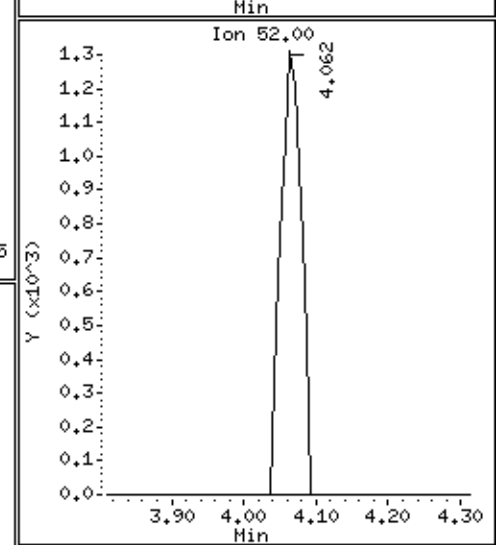


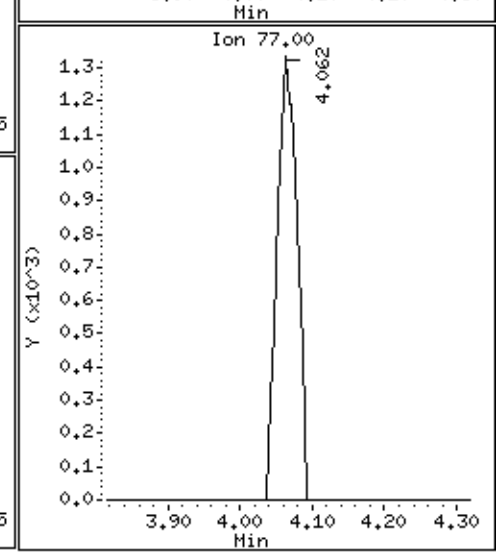












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d

Date : 18-JAN-2017 20:48

Client ID: GP-1 4-6'

Instrument: 50mv5a.i

Sample Info: 50163047001

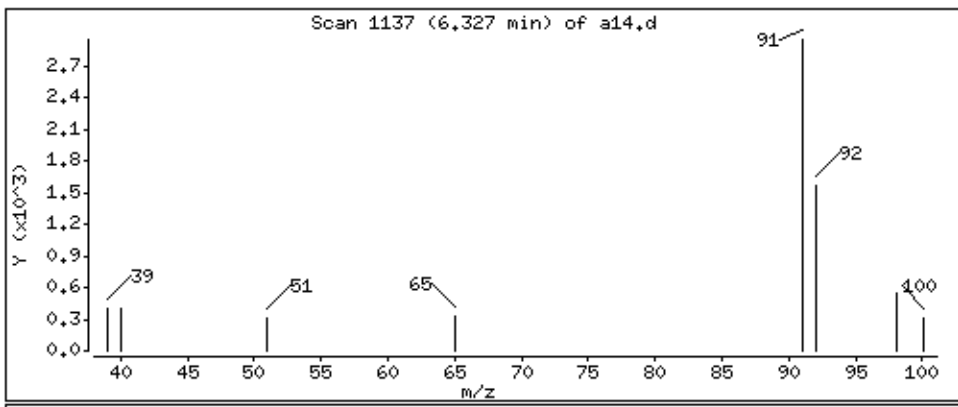
Operator: TMW

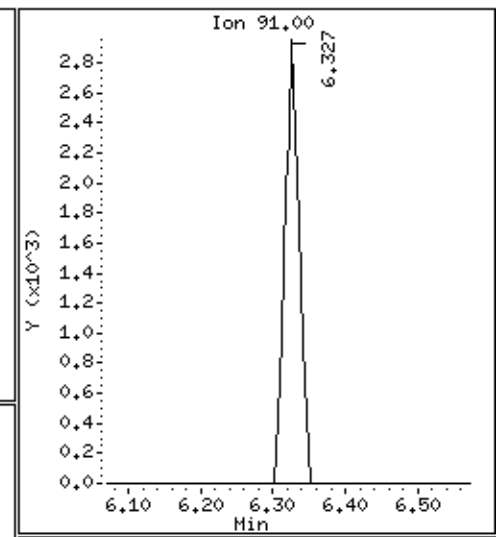
Column phase: DB-624

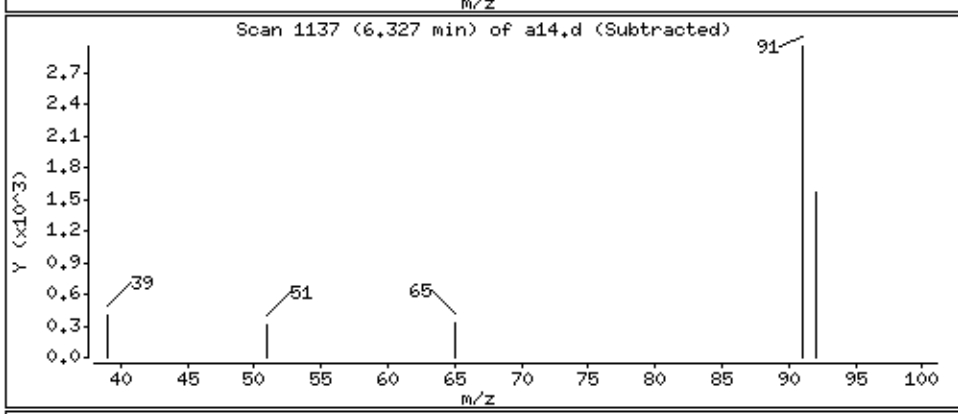
Column diameter: 0.18

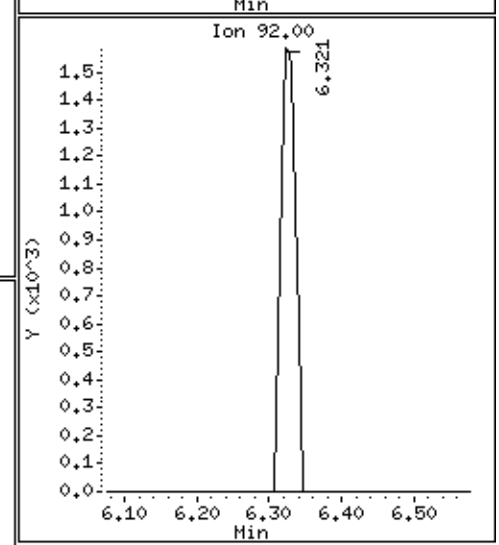
58 Toluene

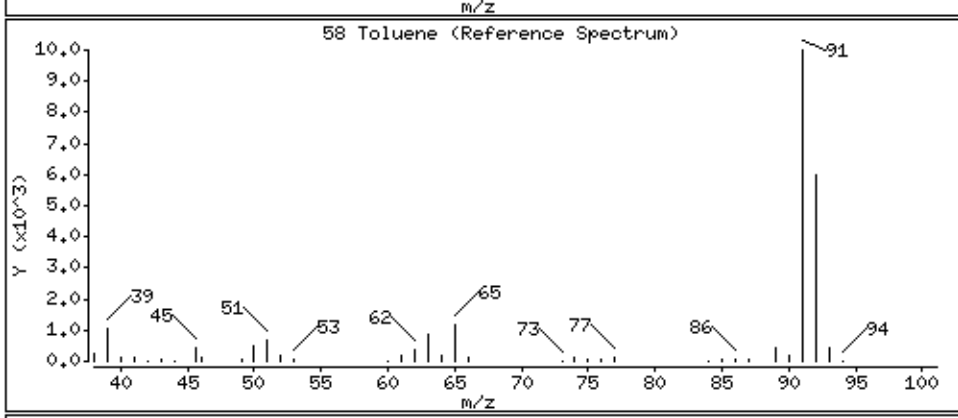
Concentration: 1.54 ppb

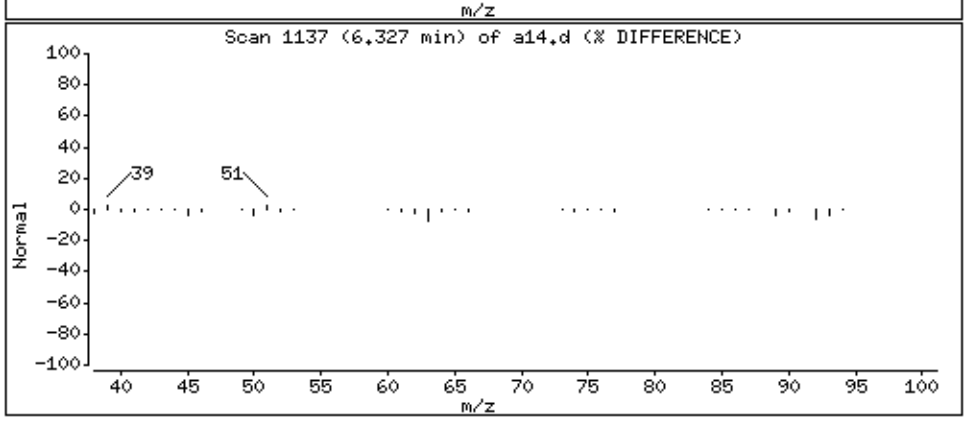












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d

Date : 18-JAN-2017 20:48

Client ID: GP-1 4-6'

Instrument: 50mv5a.i

Sample Info: 50163047001

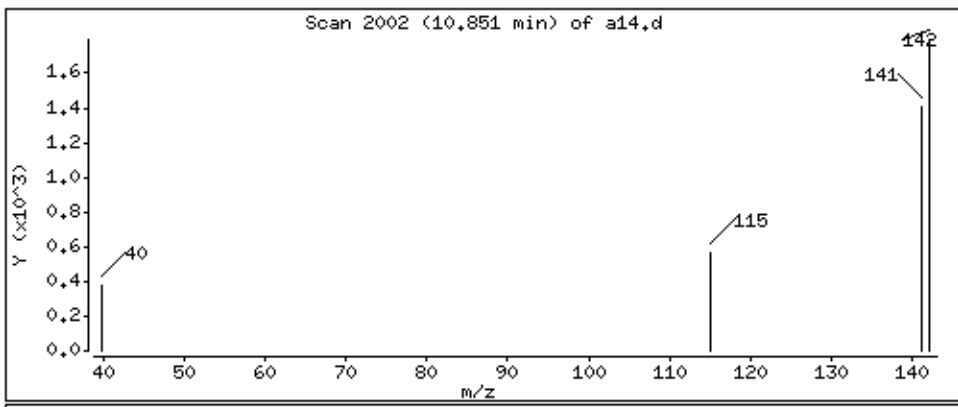
Operator: TMW

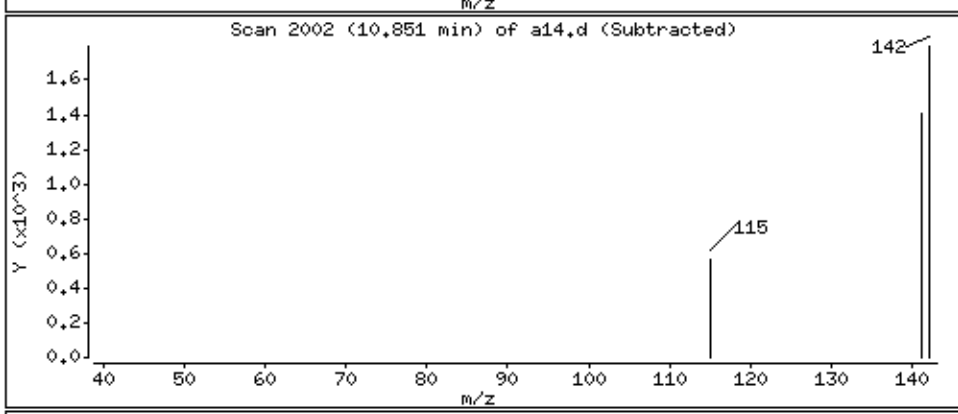
Column phase: DB-624

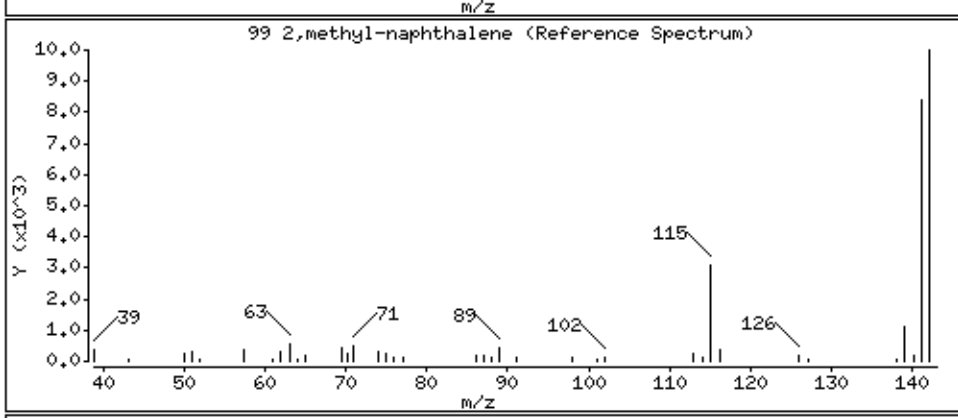
Column diameter: 0.18

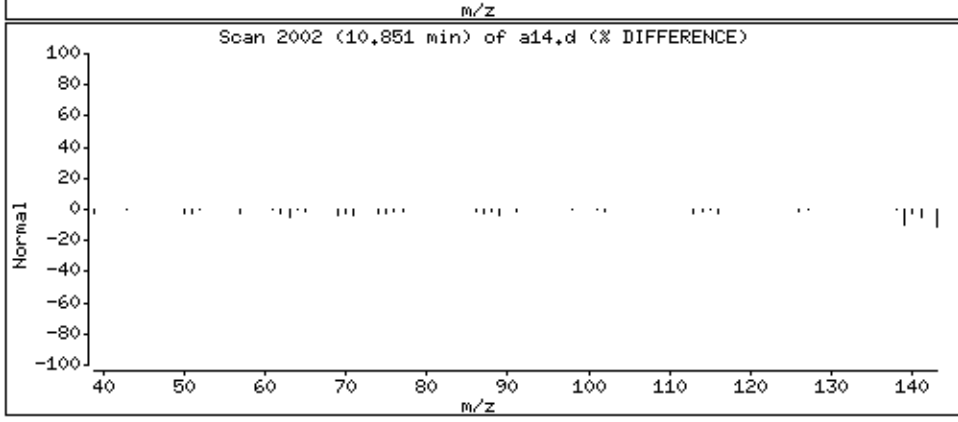
99 2,methyl-naphthalene

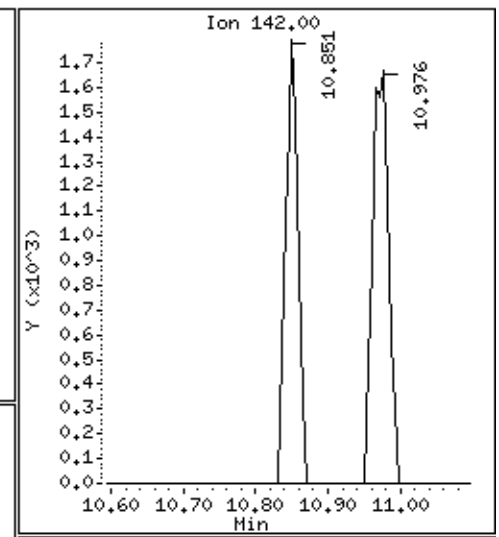
Concentration: 1.71 ppb

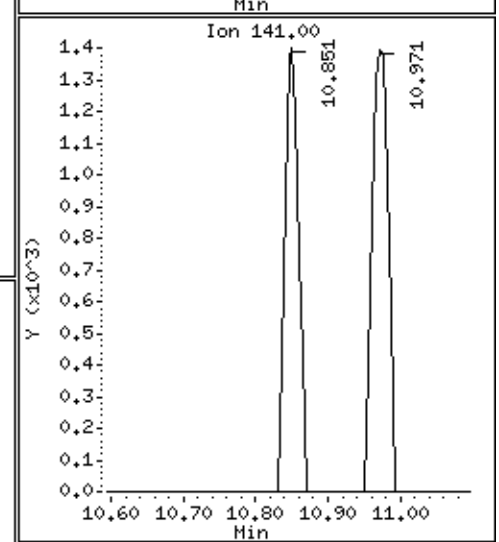


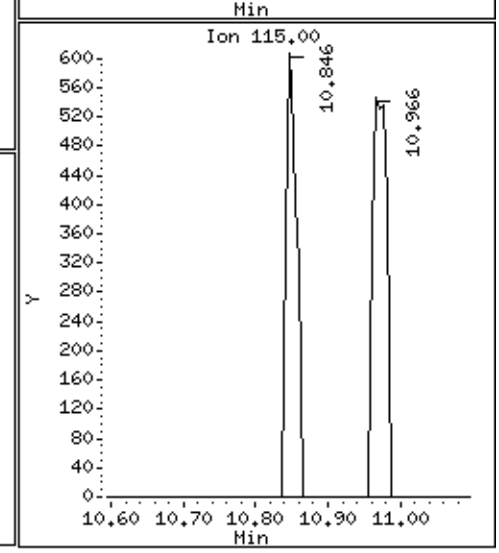












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a14.d

Date : 18-JAN-2017 20:48

Client ID: GP-1 4-6'

Instrument: 50mv5a.i

Sample Info: 50163047001

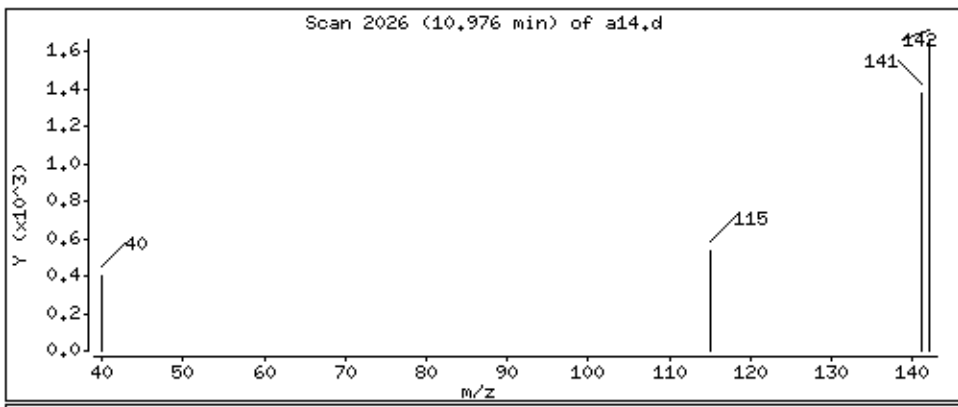
Operator: TMW

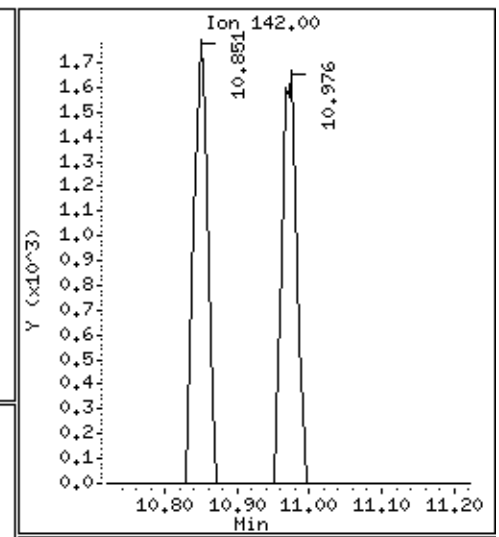
Column phase: DB-624

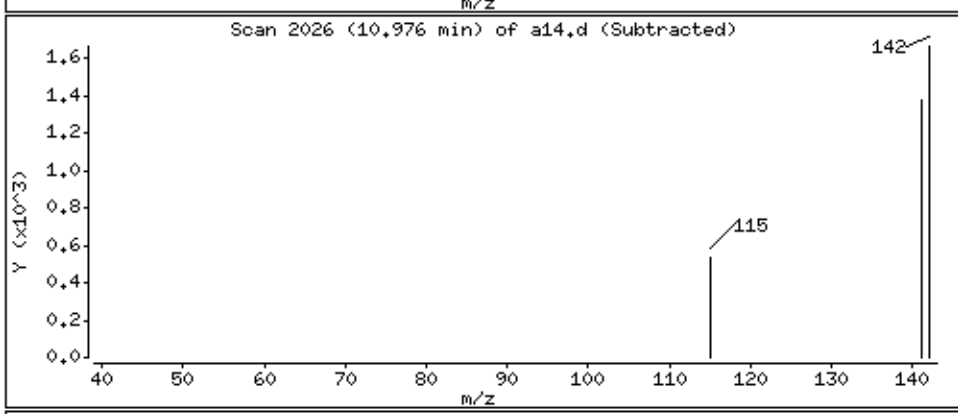
Column diameter: 0.18

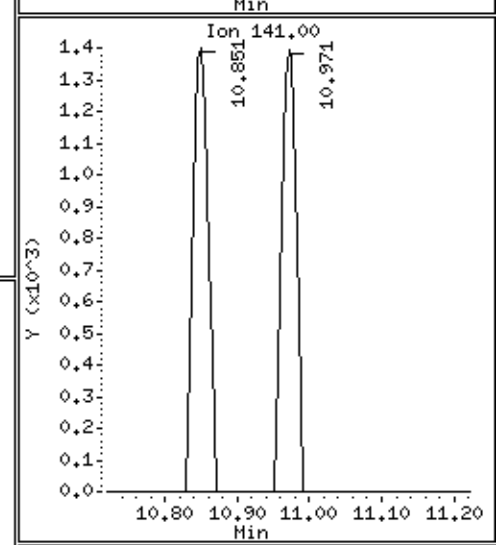
150 1-Methylnaphthalene

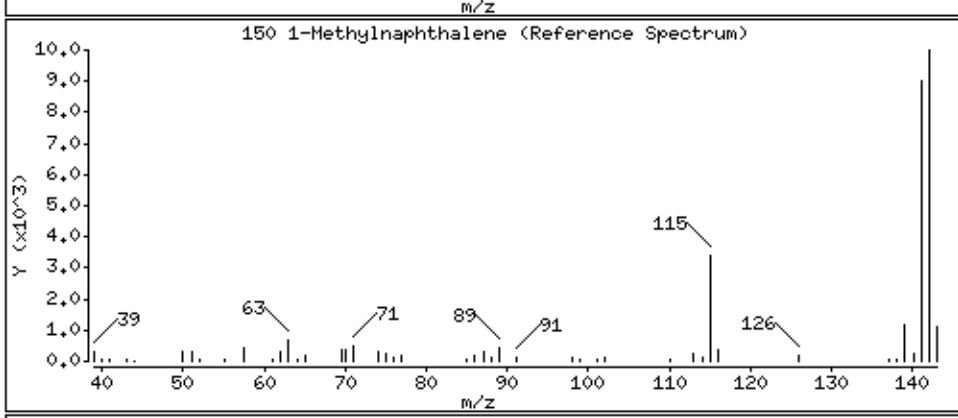
Concentration: 2.08 ppb

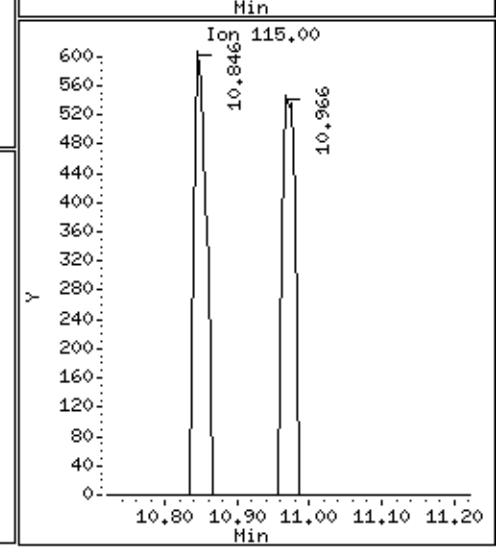


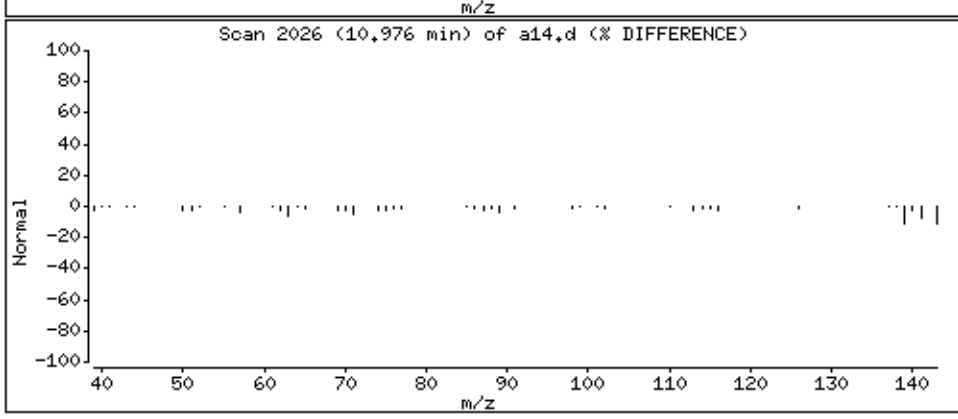












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b/a14.d
Injection Date: 18-JAN-2017 20:48
Instrument: 50mv5a.i
Lab Sample ID: 50163047001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

GP-1 10-12'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 21:26
Lab Sample ID: 50163047002
Date Analyzed: 01/18/2017 21:26
Lab File ID: A011817.B\A15.D
Initial wt/vol: 6.617 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 20.4%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-1 10-12'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 21:26
Lab Sample ID: 50163047002
Date Analyzed: 01/18/2017 21:26
Lab File ID: A011817.B\A15.D
Initial wt/vol: 6.617 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 20.4%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	0.016	
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d
Lab Smp Id: 50163047002 Client Smp ID: GP-1 10-12'
Inj Date : 18-JAN-2017 21:26
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047002
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
21 Methyl-tert-butyl ether	73	2.215	2.210	(0.499)	28122	16.5858	16.6	
$ 37 Dibromofluoromethane (S)	113	3.622	3.617	(0.815)	33375	50.6355	50.6	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	131576	50.0000		
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	130135	52.9326	52.9	
58 Toluene	91	6.326	6.321	(0.841)	1394	0.47483	0.475	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	101319	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	52000	50.4221	50.4	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	58613	50.0000		
99 2,methyl-naphthalene	142	10.850	10.845	(1.204)	1628	1.18033	1.18	
150 1-Methylnaphthalene	142	10.971	10.971	(1.218)	1675	1.34985	1.35	

Review Codes Legend

:

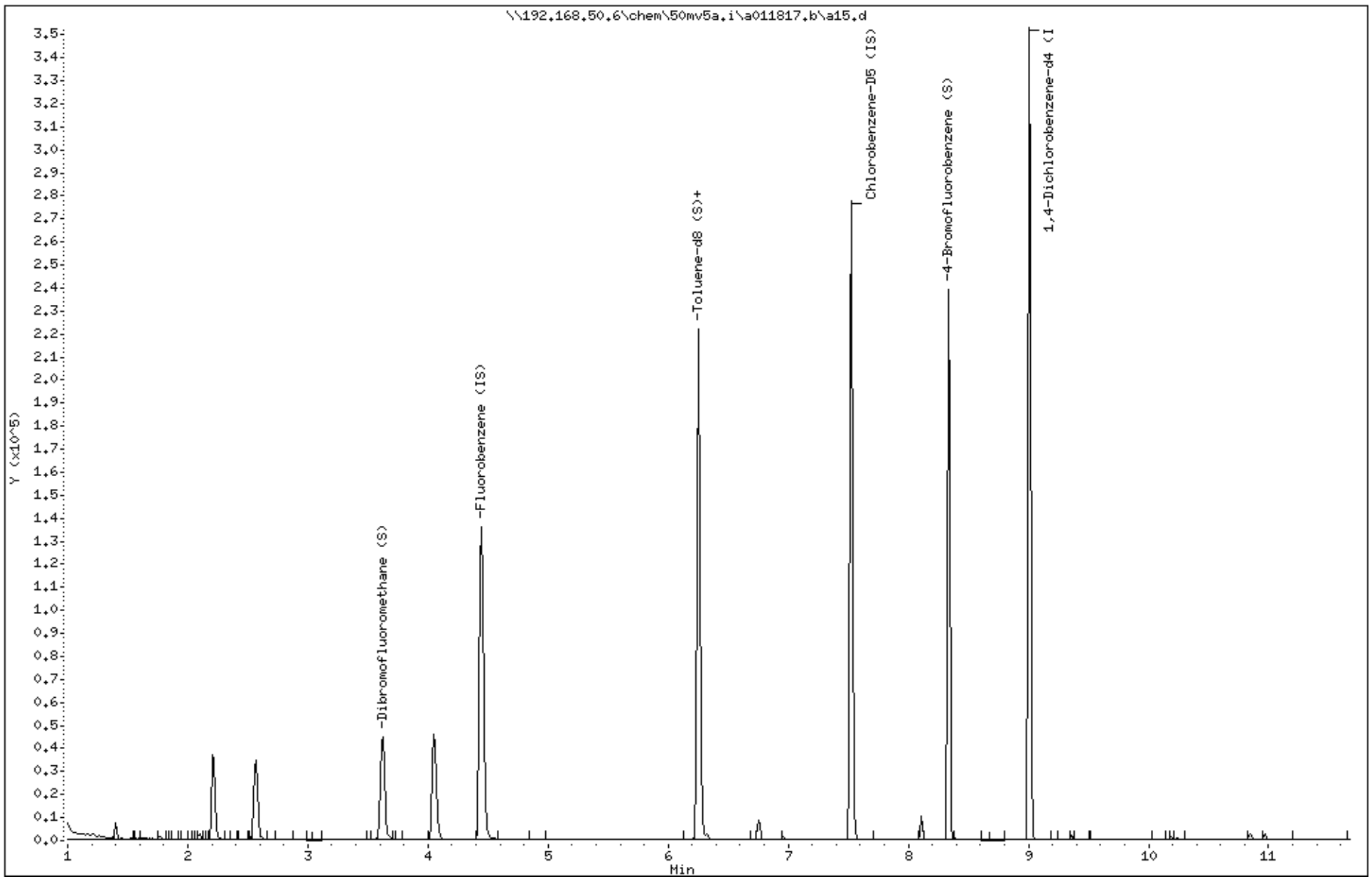
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d
Date : 18-JAN-2017 21:26
Client ID: GP-1 10-12'
Sample Info: 50163047002

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d

Date : 18-JAN-2017 21:26

Client ID: GP-1 10-12'

Instrument: 50mv5a.i

Sample Info: 50163047002

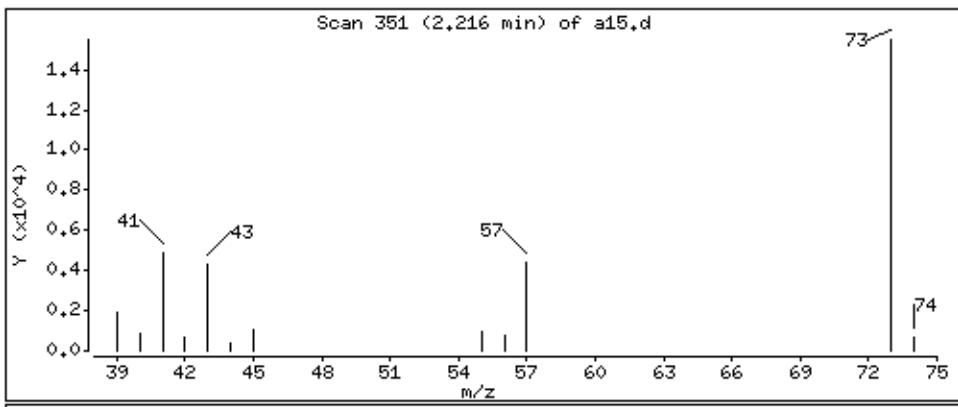
Operator: TMW

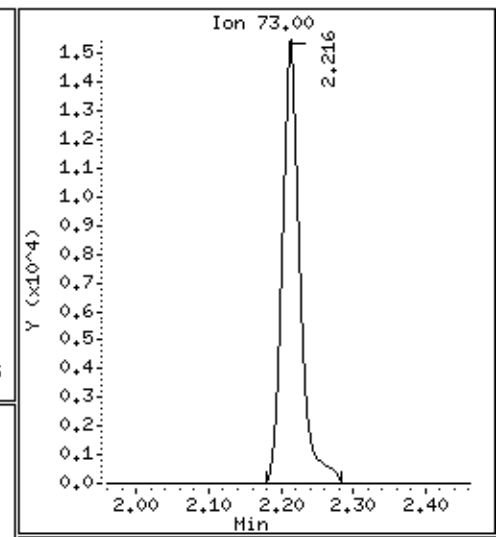
Column phase: DB-624

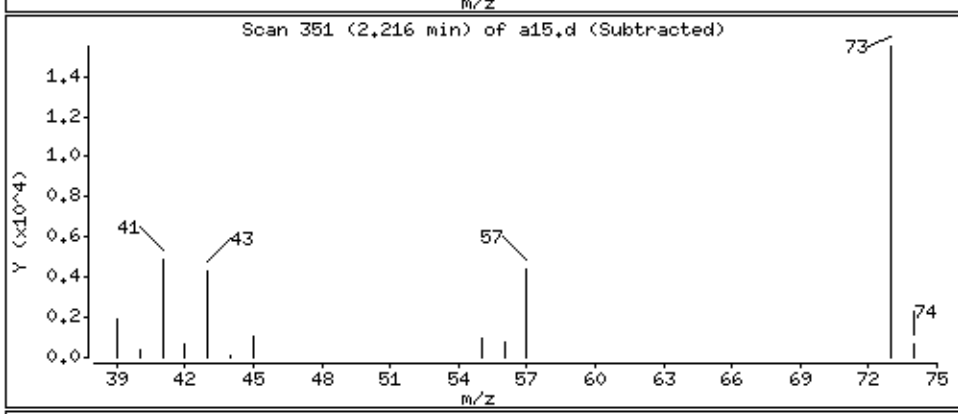
Column diameter: 0.18

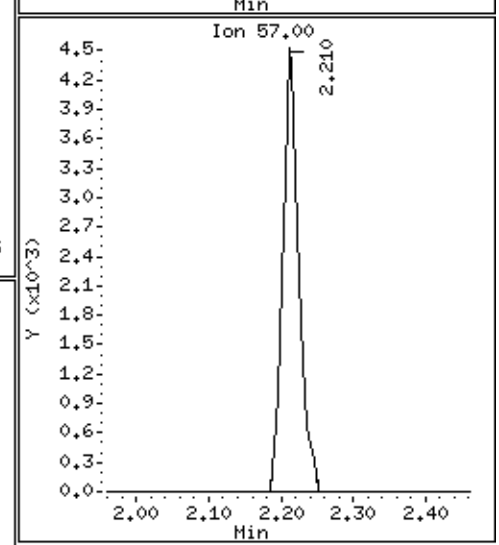
21 Methyl-tert-butyl ether

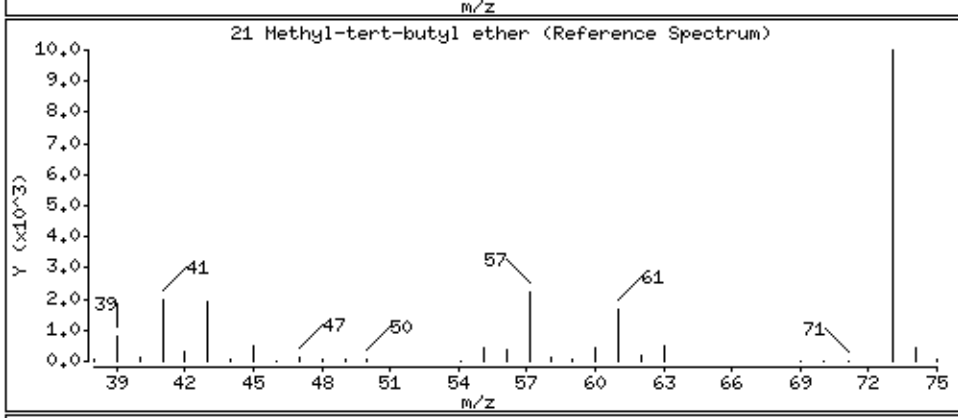
Concentration: 16.6 ppb

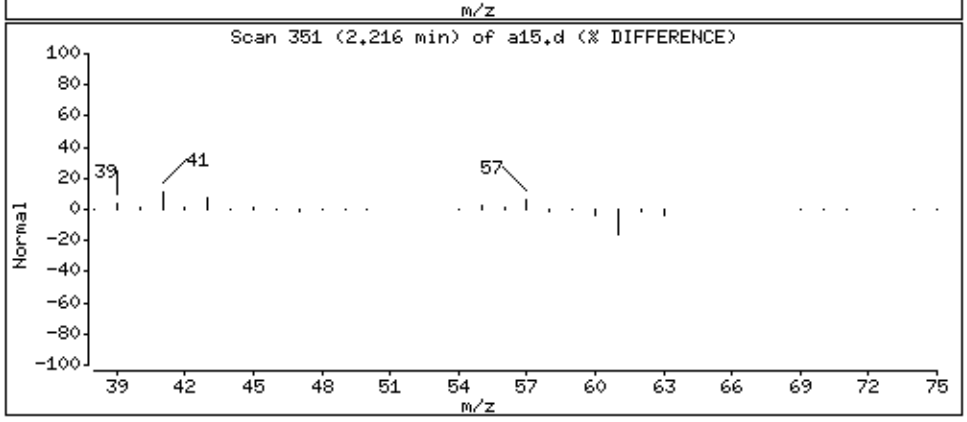












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d

Date : 18-JAN-2017 21:26

Client ID: GP-1 10-12'

Instrument: 50mv5a.i

Sample Info: 50163047002

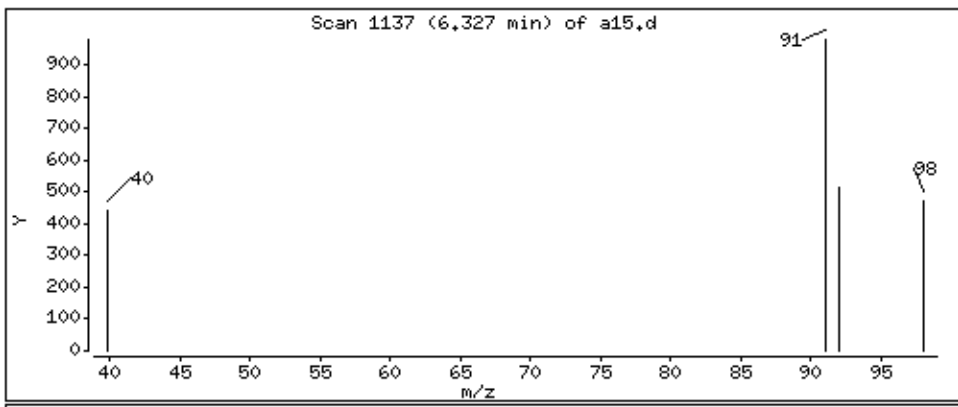
Operator: TMW

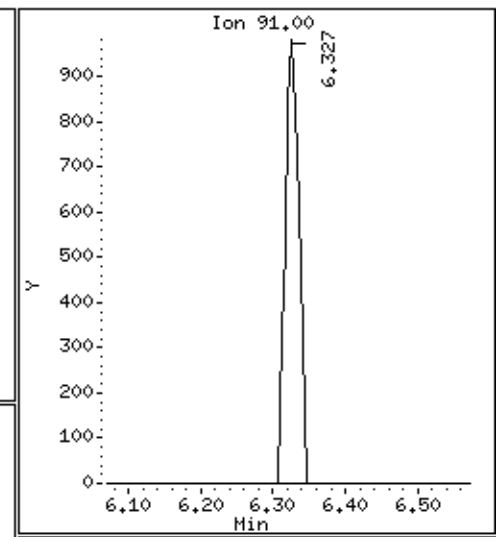
Column phase: DB-624

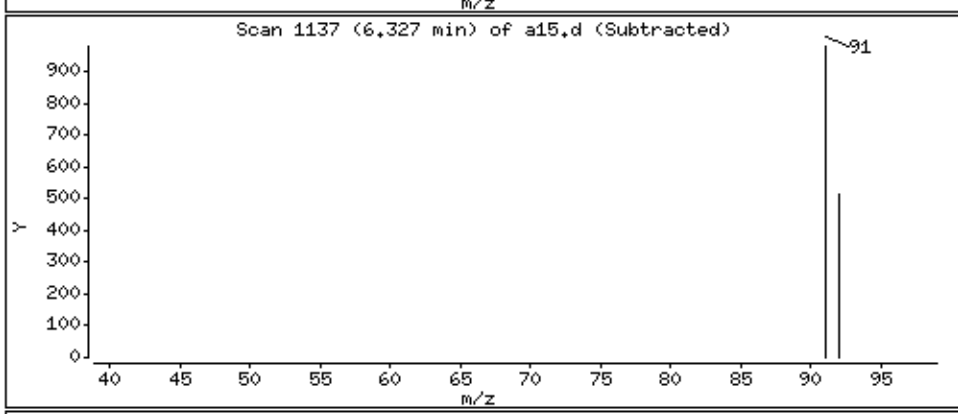
Column diameter: 0.18

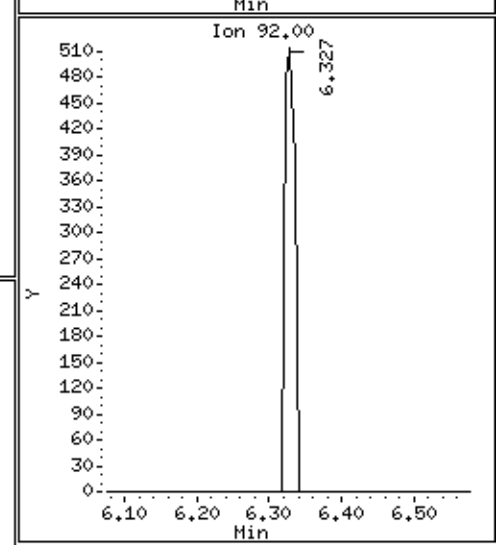
58 Toluene

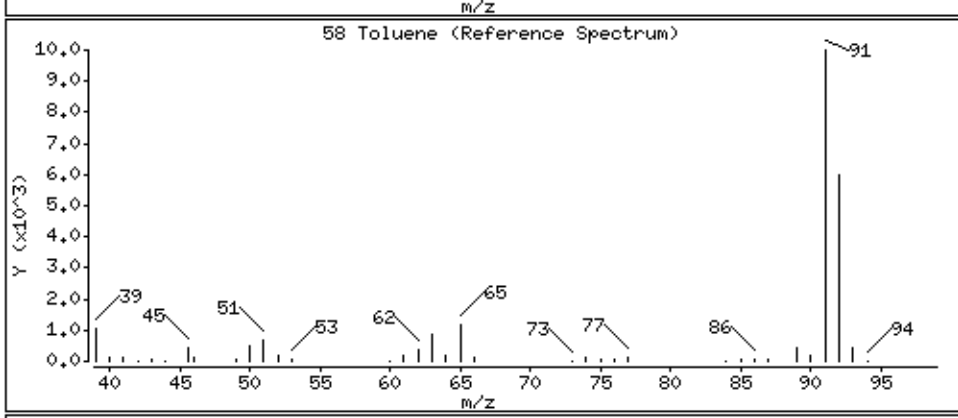
Concentration: 0.475 ppb

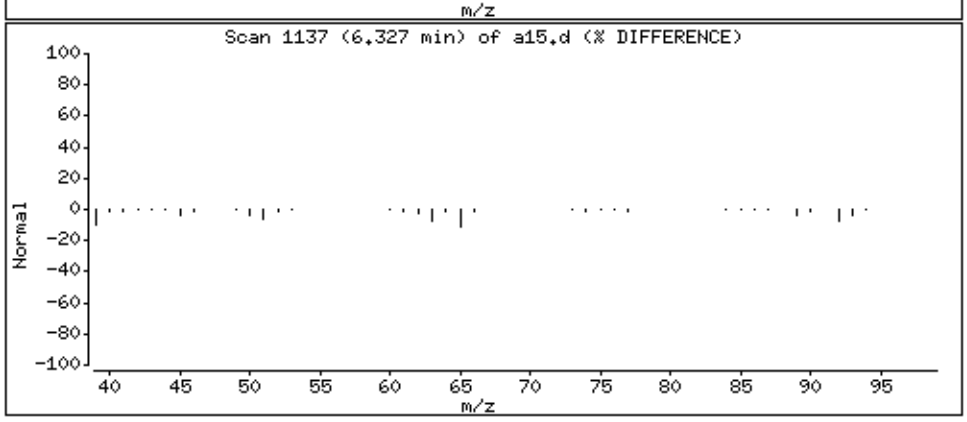












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d

Date : 18-JAN-2017 21:26

Client ID: GP-1 10-12'

Instrument: 50mv5a.i

Sample Info: 50163047002

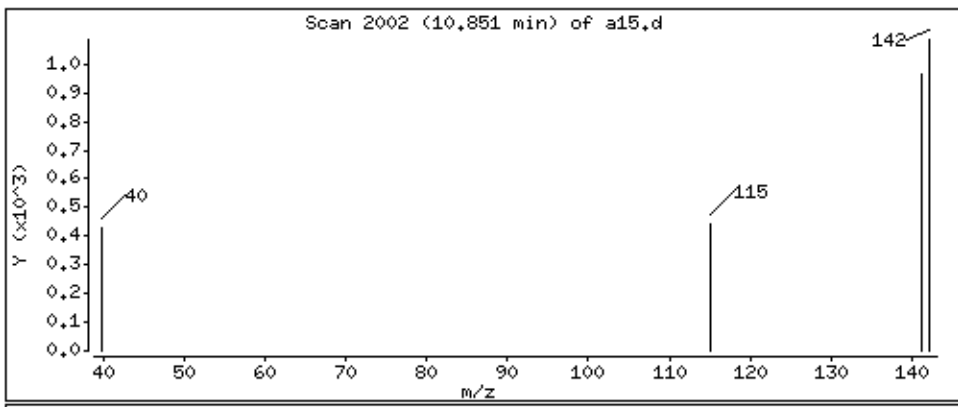
Operator: TMW

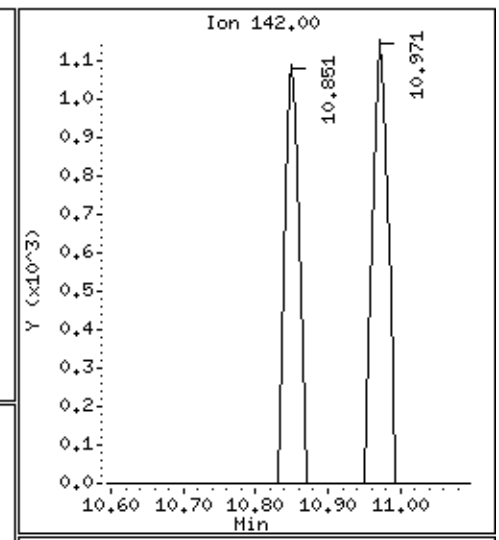
Column phase: DB-624

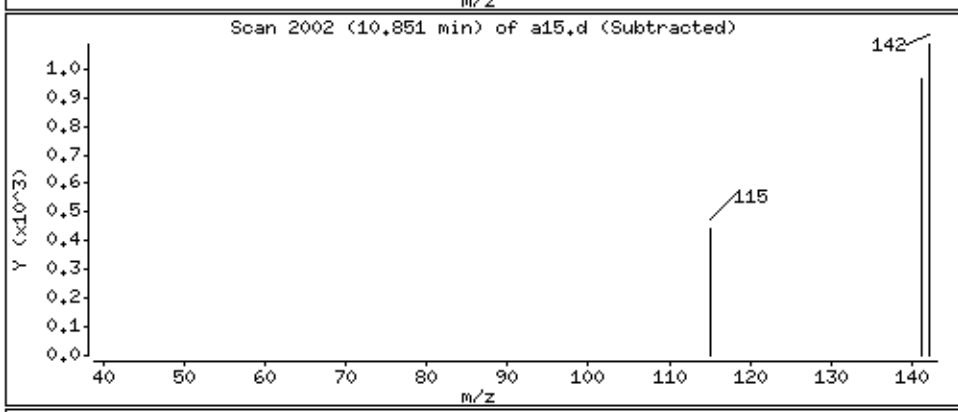
Column diameter: 0.18

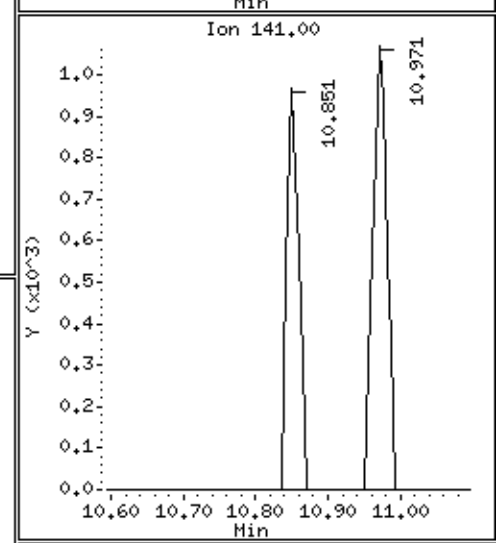
99 2,methyl-naphthalene

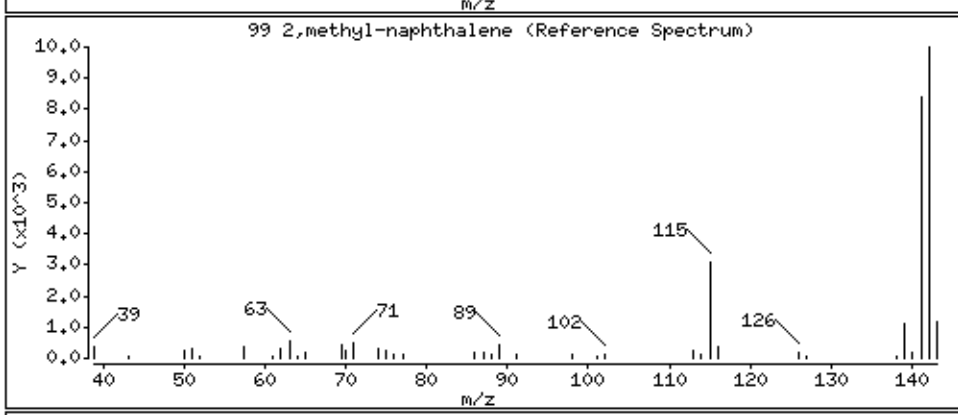
Concentration: 1.18 ppb

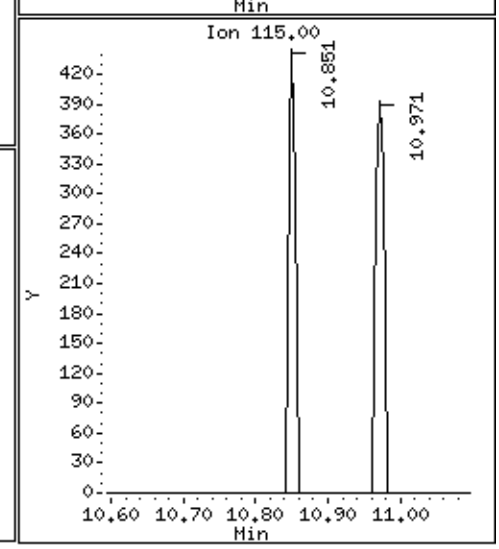


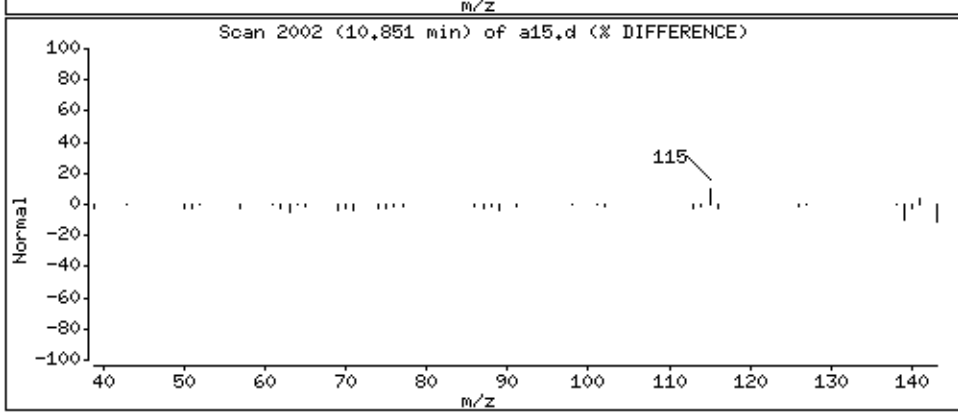












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a15.d

Date : 18-JAN-2017 21:26

Client ID: GP-1 10-12'

Instrument: 50mv5a.i

Sample Info: 50163047002

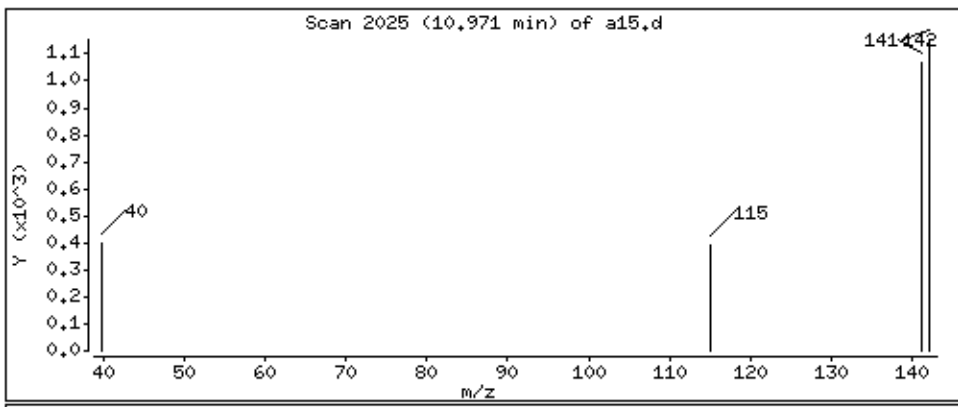
Operator: TMW

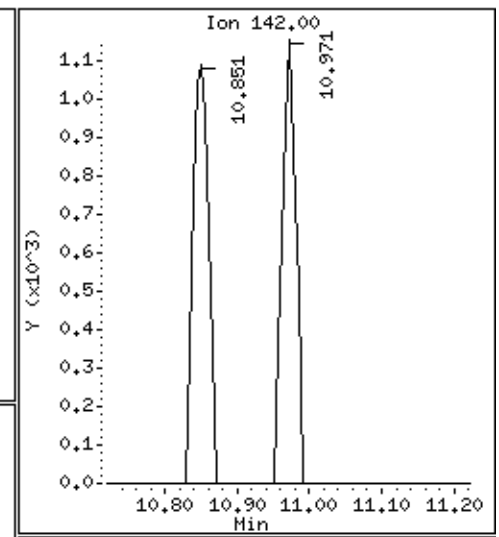
Column phase: DB-624

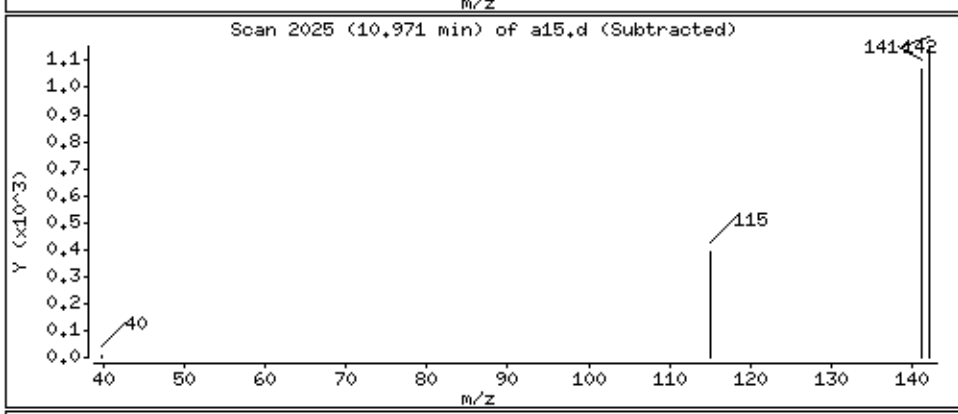
Column diameter: 0.18

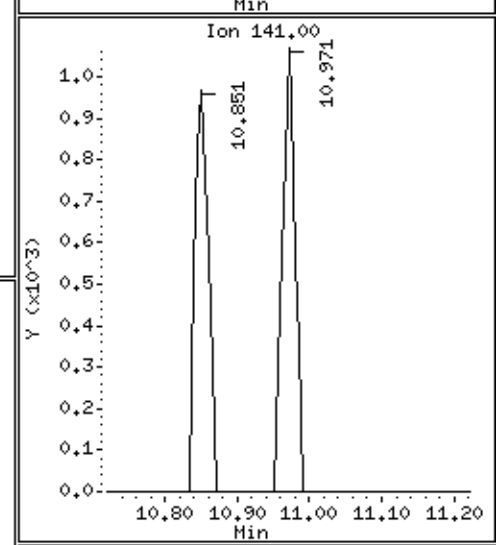
150 1-Methylnaphthalene

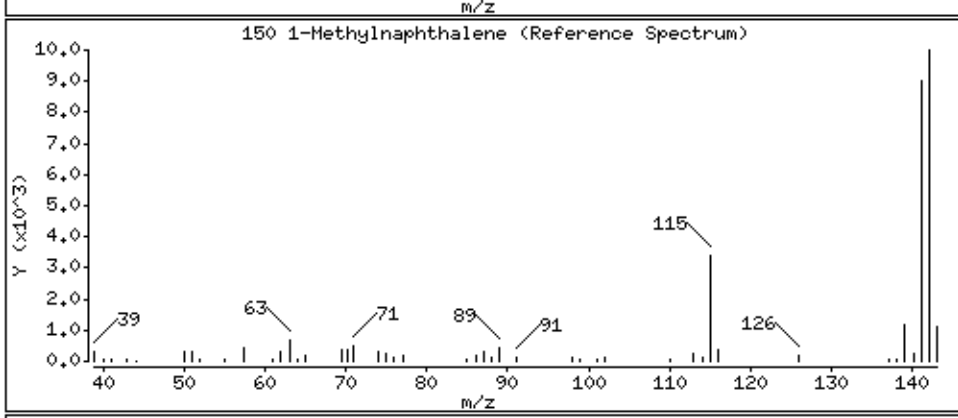
Concentration: 1.35 ppb

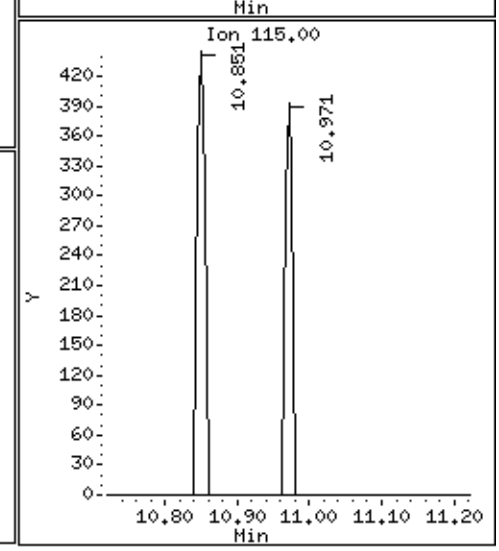


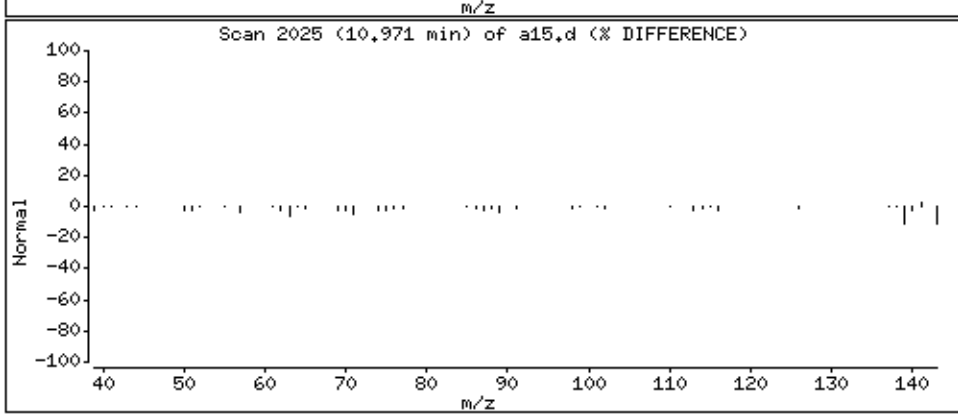












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b/a15.d
Injection Date: 18-JAN-2017 21:26
Instrument: 50mv5a.i
Lab Sample ID: 50163047002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

GP-2 2-4'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 22:03
Lab Sample ID: 50163047003
Date Analyzed: 01/18/2017 22:03
Lab File ID: A011817.B\A16.D
Initial wt/vol: 6.628 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 19.8%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-2 2-4'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 22:03
Lab Sample ID: 50163047003
Date Analyzed: 01/18/2017 22:03
Lab File ID: A011817.B\A16.D
Initial wt/vol: 6.628 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 19.8%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a16.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a16.d
Lab Smp Id: 50163047003 Client Smp ID: GP-2 2-4'
Inj Date : 18-JAN-2017 22:03
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047003
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 37 Dibromofluoromethane (S)	113	3.622	3.617	(0.814)	34870	47.4651	47.5	
151 n-butyl chloride	56	3.779	3.774	(0.850)	900532	526.191	526	
44 2,2,4-Trimethylpentane	57	4.260	4.229	(0.958)	9964552	2999.36	3000	
* 46 Fluorobenzene (IS)	96	4.448	4.443	(1.000)	146652	50.0000		
$ 57 Toluene-d8 (S)	98	6.258	6.253	(0.832)	148017	54.1556	54.2	
58 Toluene	91	6.331	6.321	(0.842)	1375	0.42129	0.421	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	112639	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	56422	49.2117	49.2	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	61347	50.0000		

Review Codes Legend

:

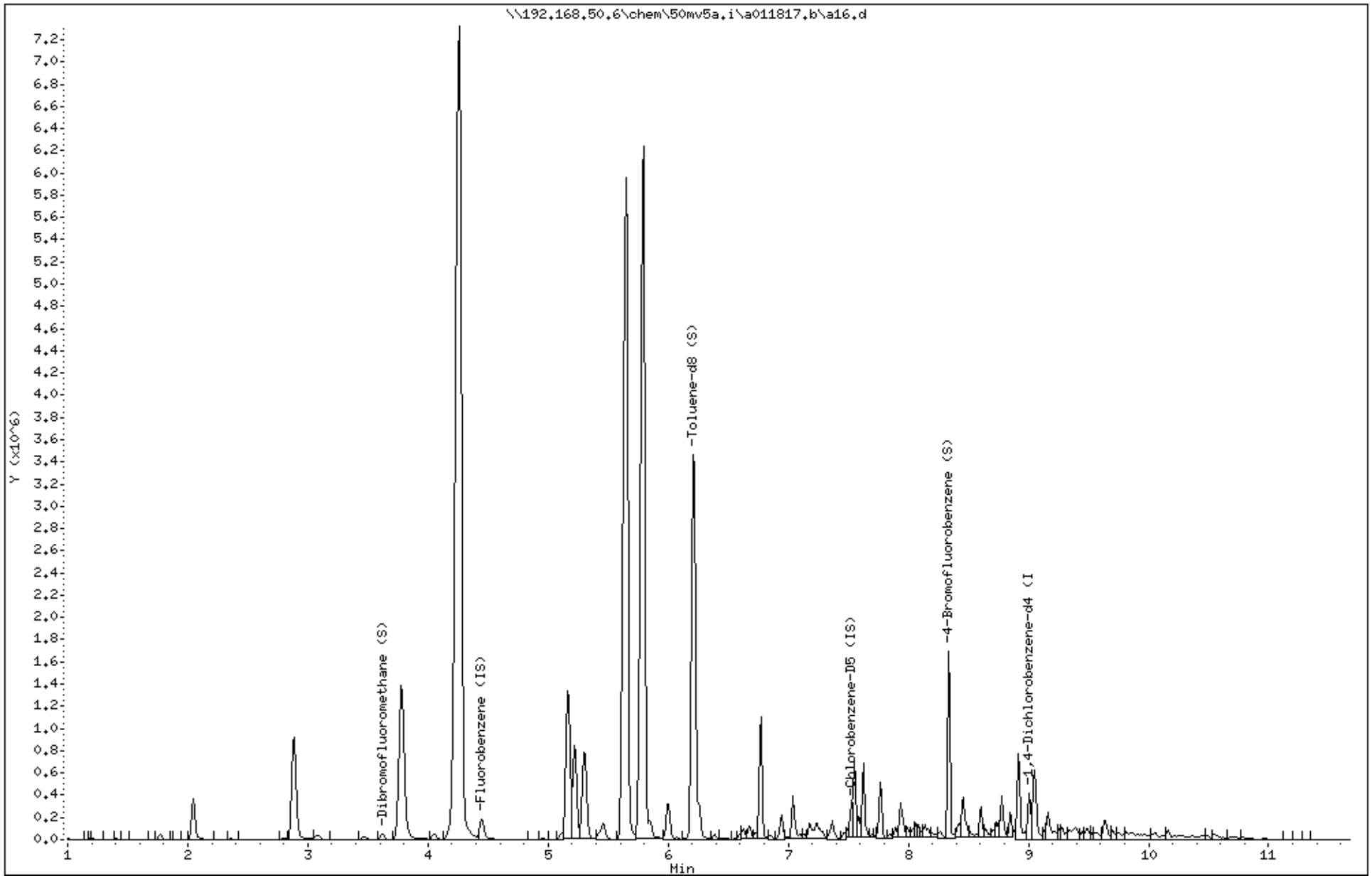
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a16.d
Date : 18-JAN-2017 22:03
Client ID: GP-2 2-4'
Sample Info: 50163047003

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a16.d

Date : 18-JAN-2017 22:03

Client ID: GP-2 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047003

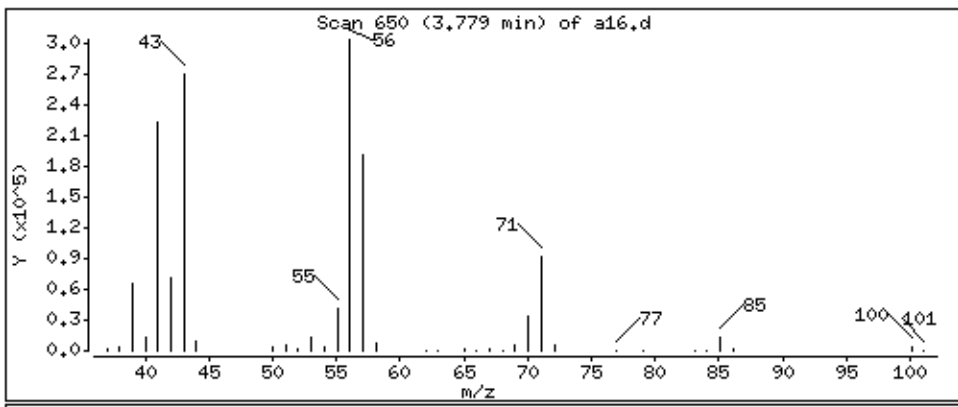
Operator: TMW

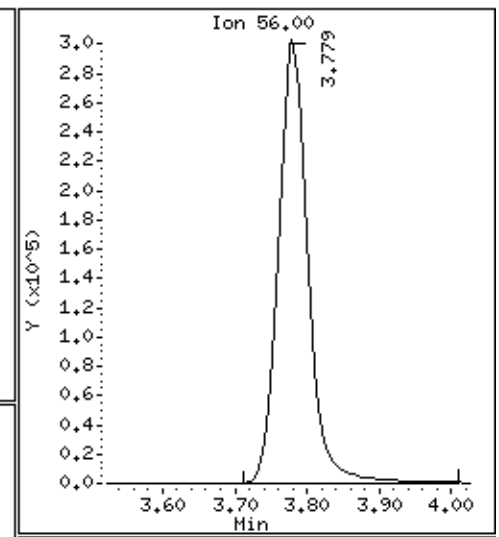
Column phase: DB-624

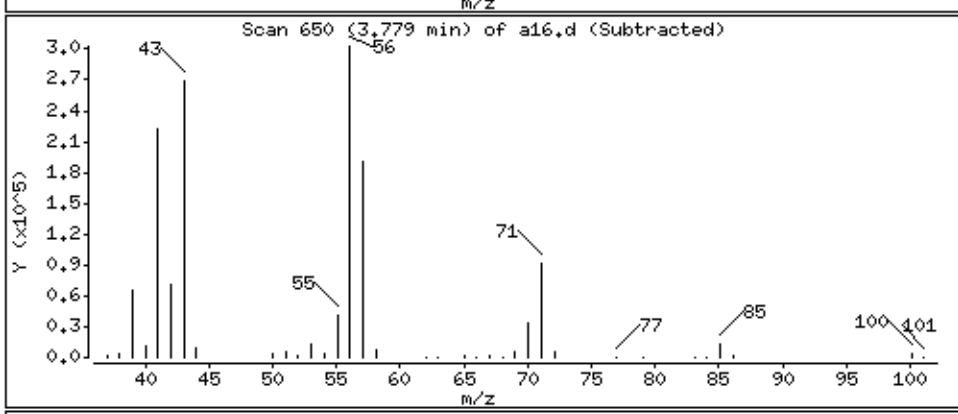
Column diameter: 0.18

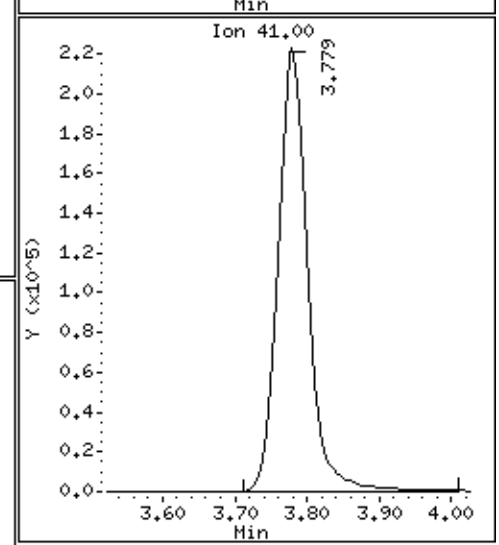
151 n-butyl chloride

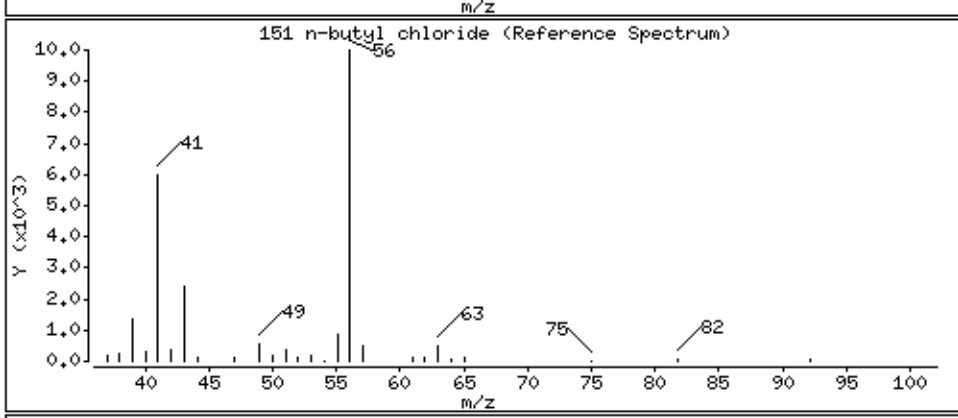
Concentration: 526 ppb

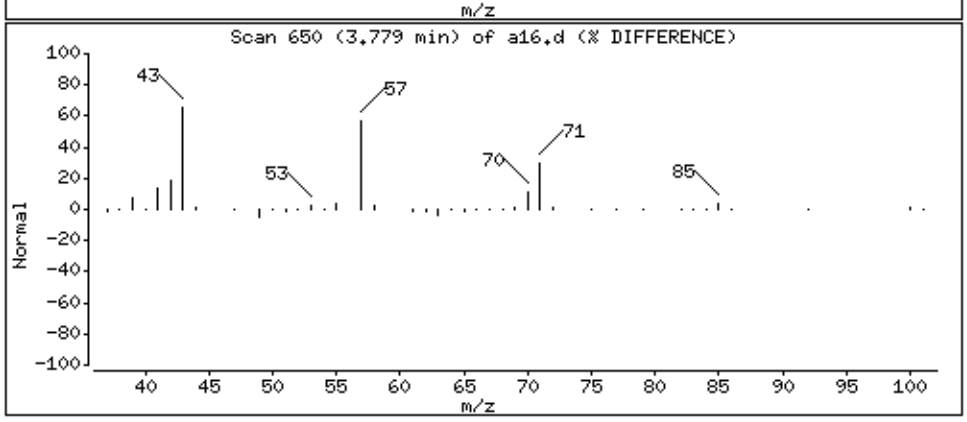












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Date : 18-JAN-2017 22:03

Client ID: GP-2 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047003

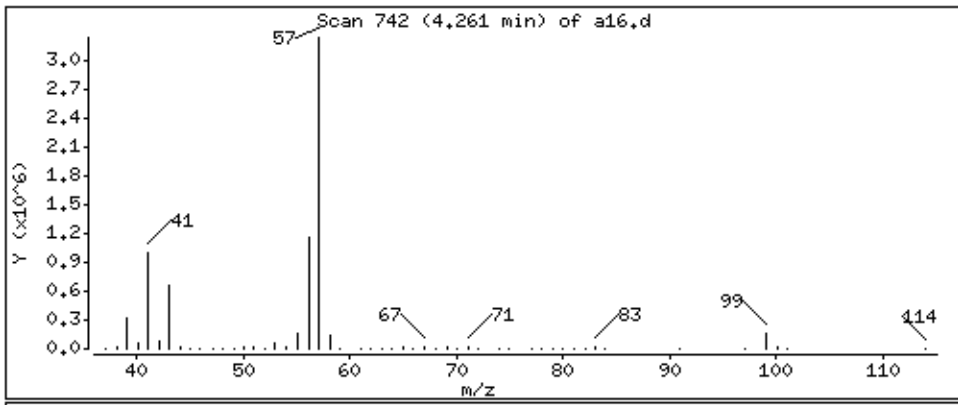
Operator: TMW

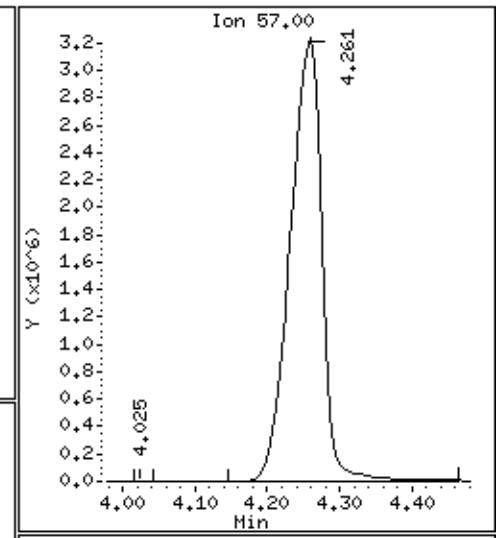
Column phase: DB-624

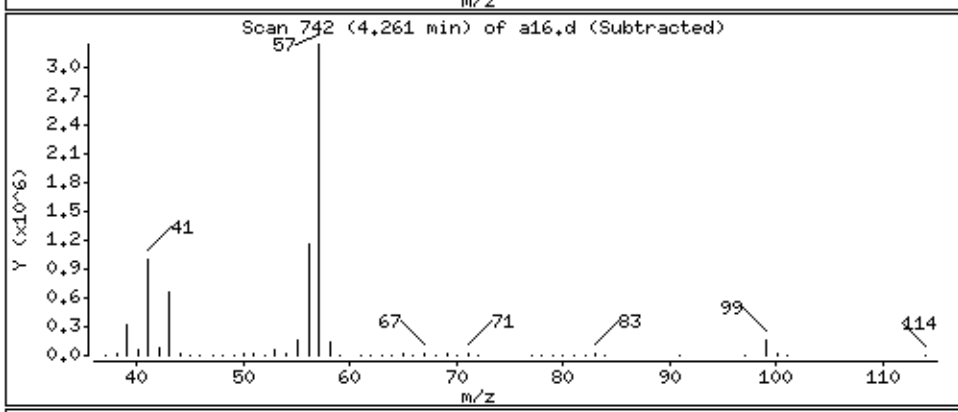
Column diameter: 0.18

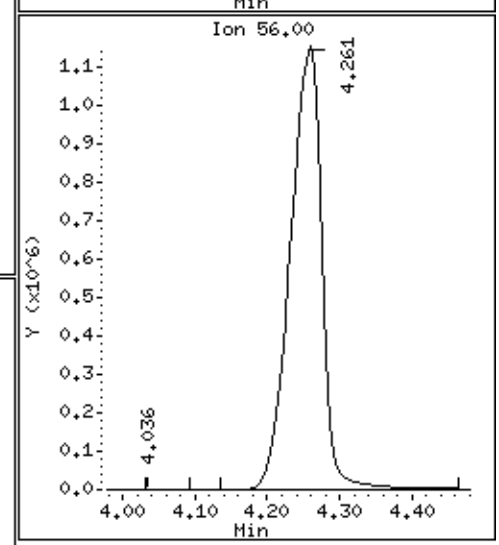
44 2,2,4-Trimethylpentane

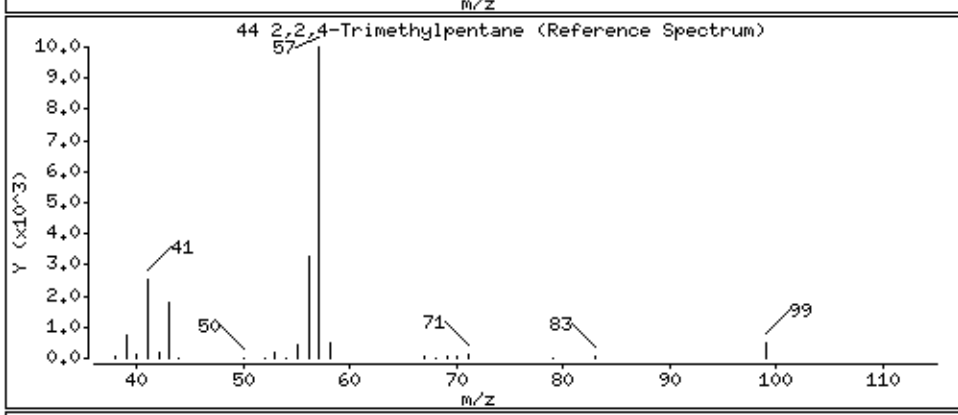
Concentration: 3000 ppb

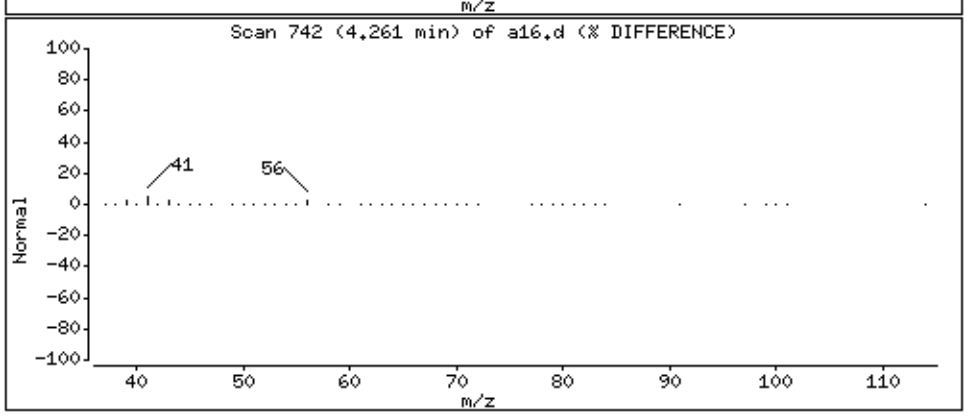












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a16.d

Date : 18-JAN-2017 22:03

Client ID: GP-2 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047003

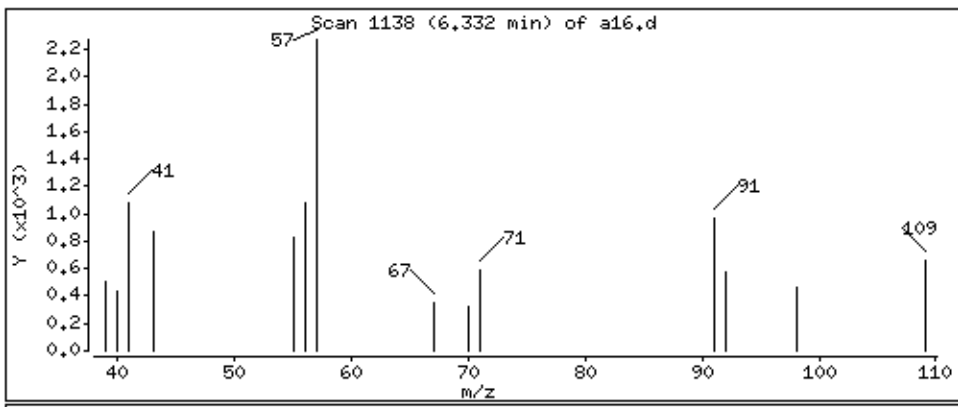
Operator: TMW

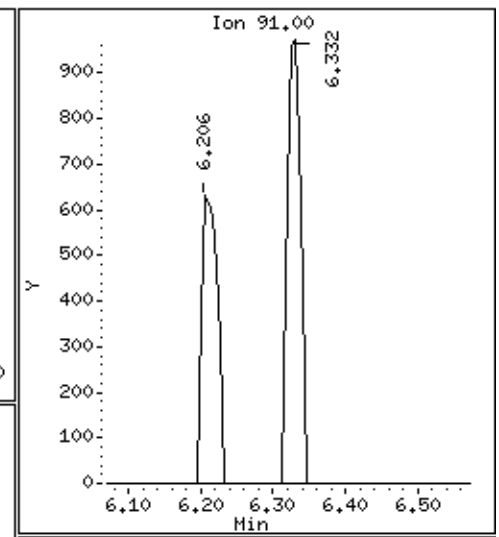
Column phase: DB-624

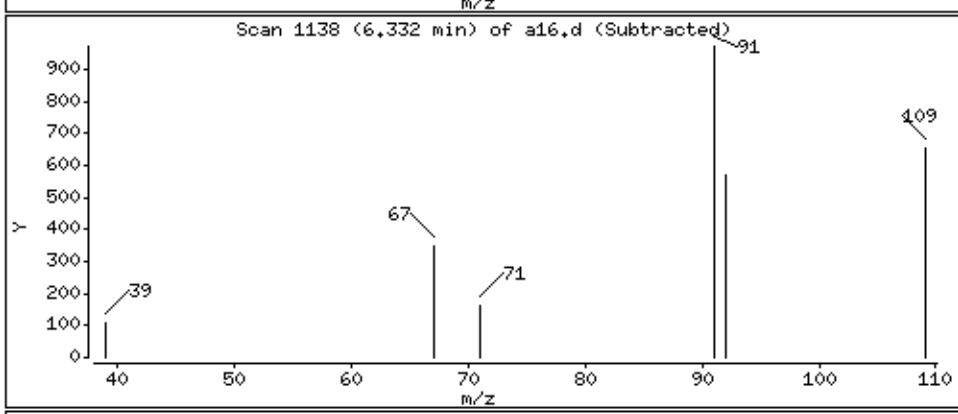
Column diameter: 0.18

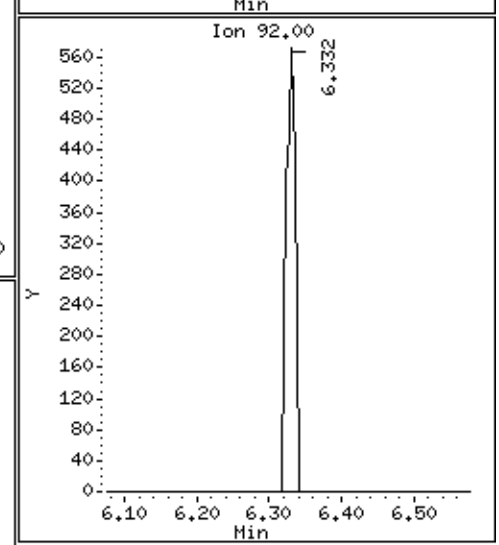
58 Toluene

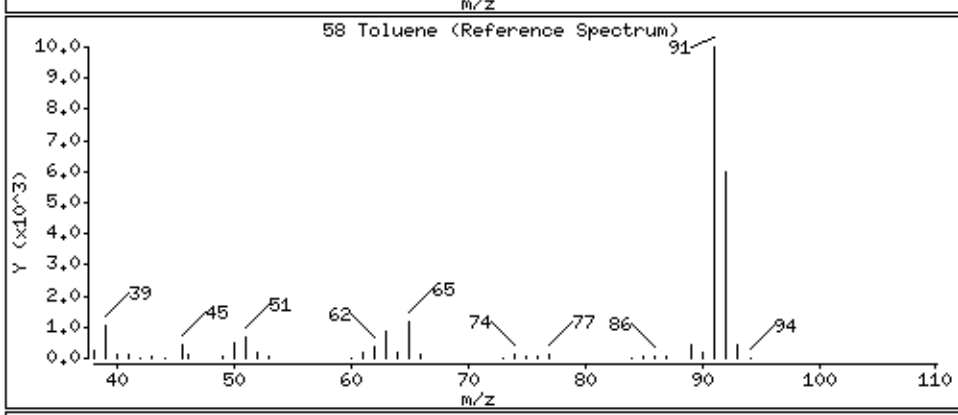
Concentration: 0.421 ppb

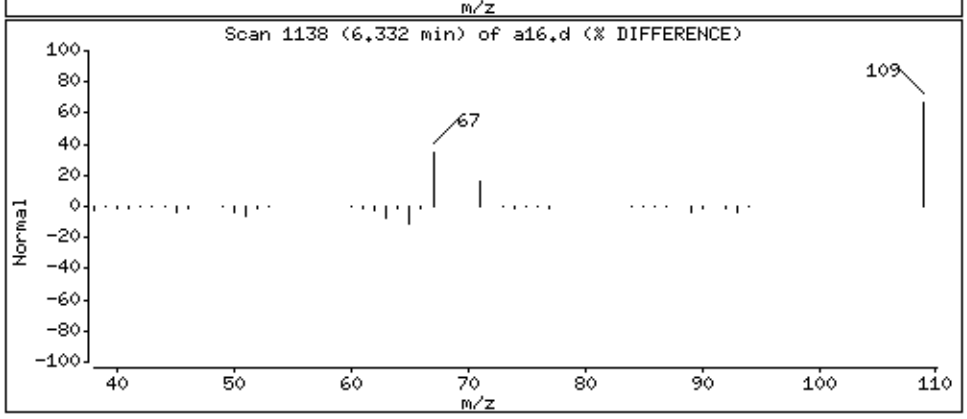












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b/a16.d
Injection Date: 18-JAN-2017 22:03
Instrument: 50mv5a.i
Lab Sample ID: 50163047003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

GP-2 12-14'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 16:54
Lab Sample ID: 50163047004
Date Analyzed: 01/19/2017 16:54
Lab File ID: A011917.B\A04.D
Initial wt/vol: 6.532 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 19.9%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-2 12-14'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 16:54
Lab Sample ID: 50163047004
Date Analyzed: 01/19/2017 16:54
Lab File ID: A011917.B\A04.D
Initial wt/vol: 6.532 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 19.9%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a04.d
Report Date: 20-Jan-2017 13:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011917.b\a04.d
Lab Smp Id: 50163047004 Client Smp ID: GP-2 12-14'
Inj Date : 19-JAN-2017 16:54
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047004
Misc Info : 99014
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011917.b\-a8260_a_c.m
Meth Date : 20-Jan-2017 10:57 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	19.878	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 37 Dibromofluoromethane (S)	113	3.633	3.627	(0.815)	33805	50.8623	63.5	
* 46 Fluorobenzene (IS)	96	4.459	4.454	(1.000)	132677	50.0000		
$ 57 Toluene-d8 (S)	98	6.263	6.263	(0.831)	130730	52.3505	65.3	
58 Toluene	91	6.337	6.331	(0.841)	1675	0.56170	0.701	
* 67 Chlorobenzene-D5 (IS)	117	7.534	7.529	(1.000)	102914	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.107)	54202	51.7427	64.6	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	59273	50.0000		

Review Codes Legend

:

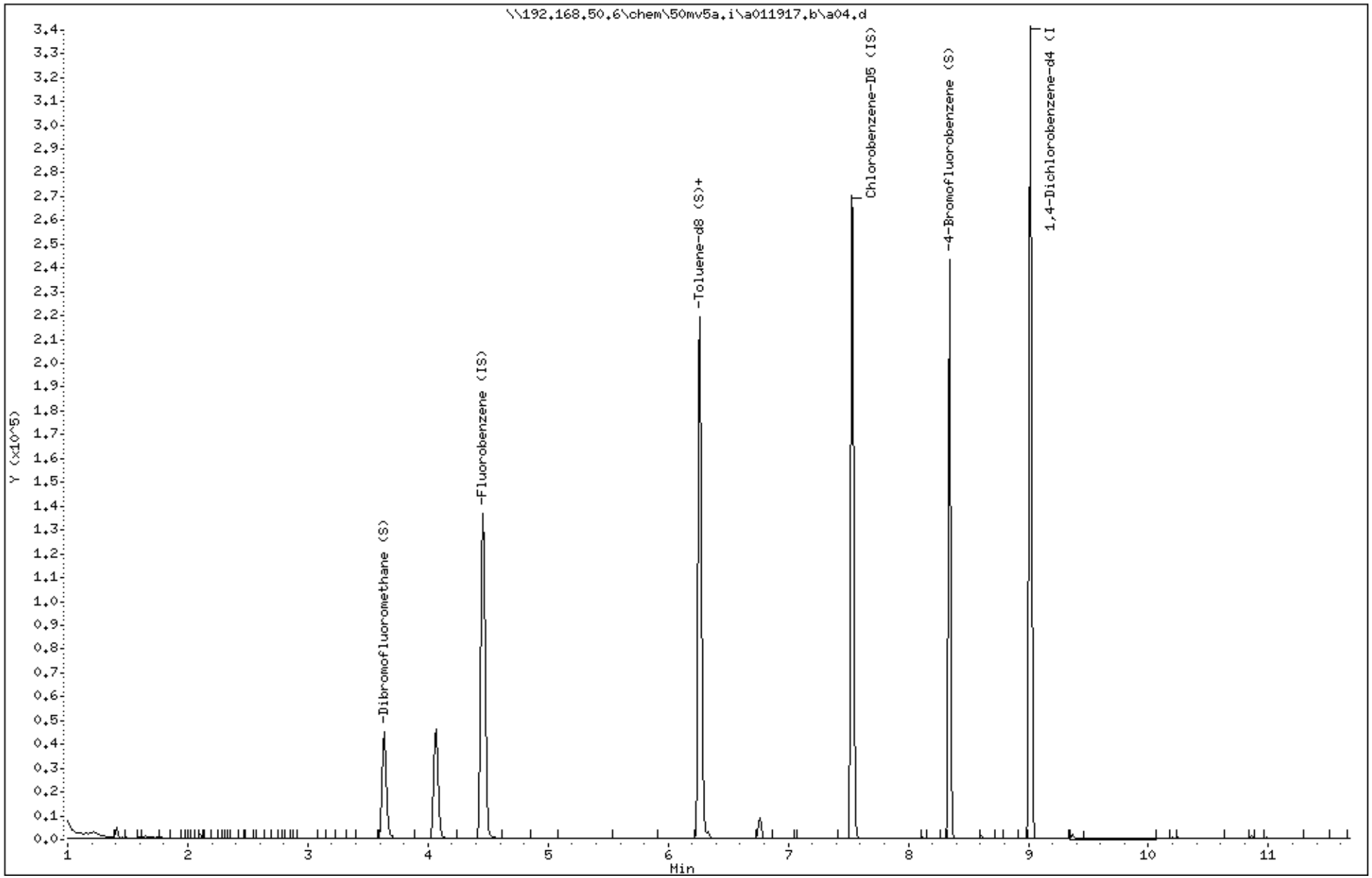
Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a04.d
Date : 19-JAN-2017 16:54
Client ID: GP-2 12-14'
Sample Info: 50163047004

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a04.d

Date : 19-JAN-2017 16:54

Client ID: GP-2 12-14'

Instrument: 50mv5a.i

Sample Info: 50163047004

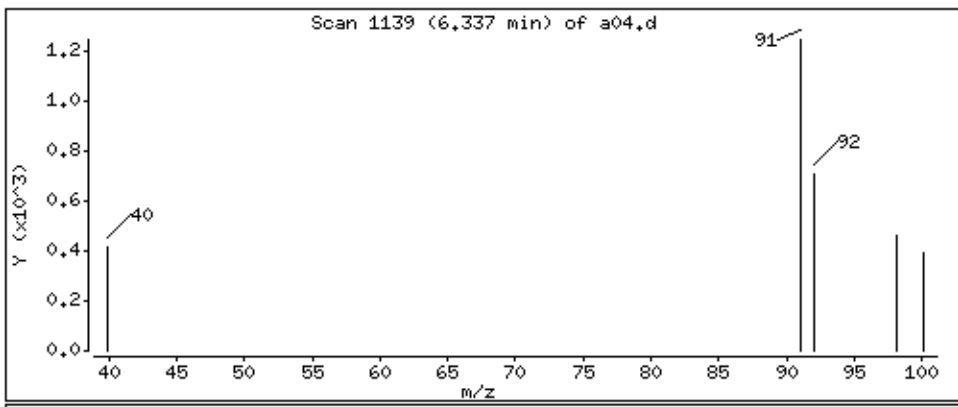
Operator: TMW

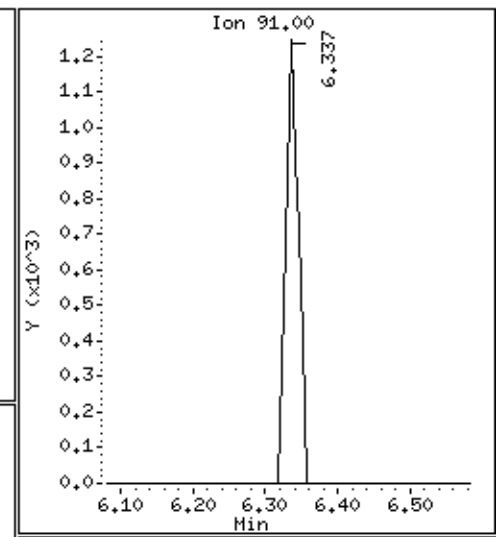
Column phase: DB-624

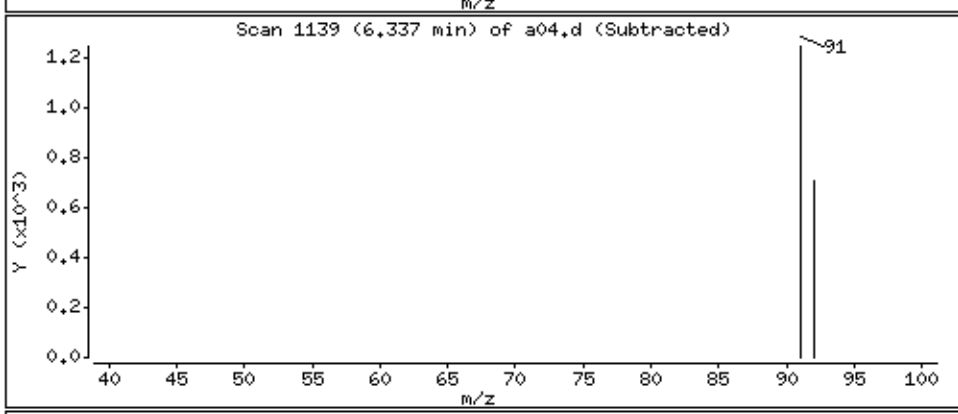
Column diameter: 0.18

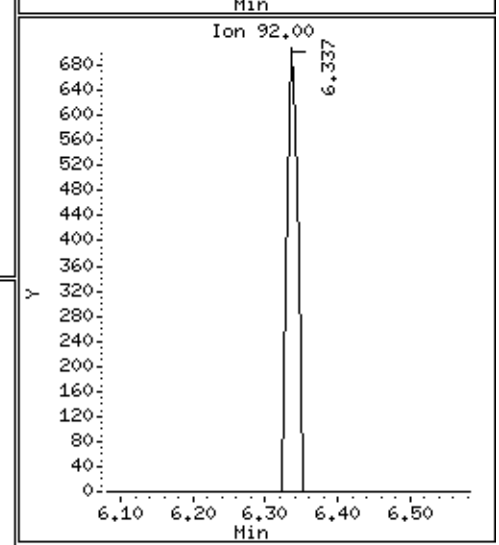
58 Toluene

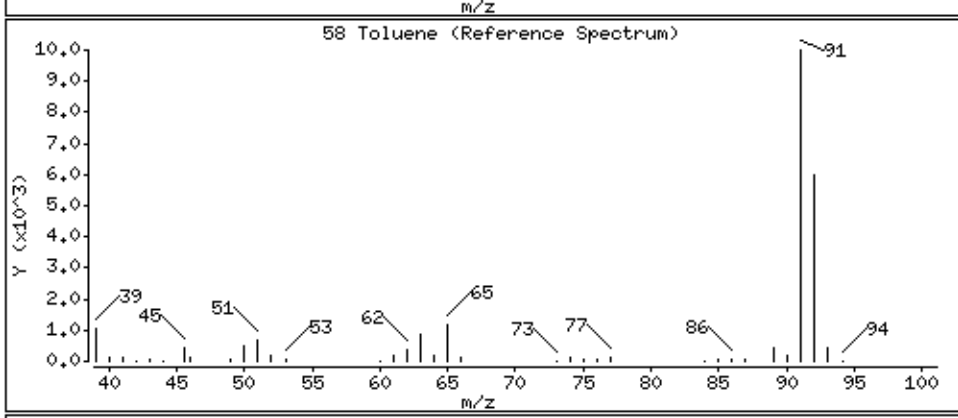
Concentration: 0.701 ppb

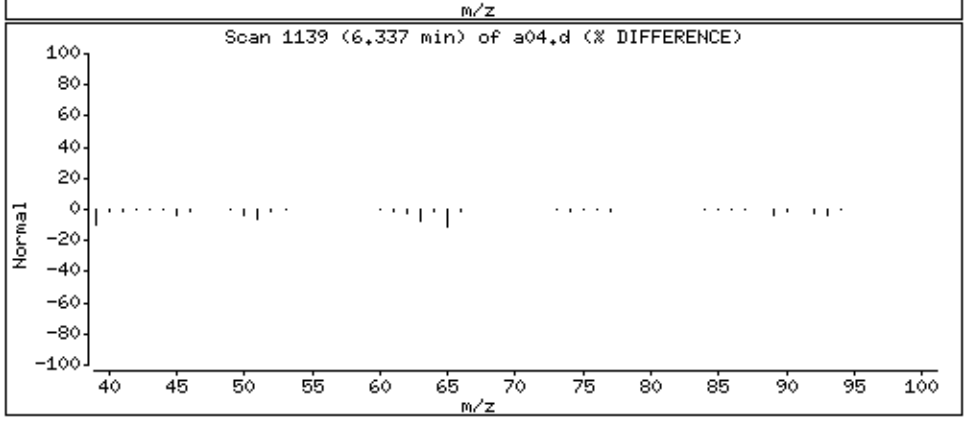












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b/a04.d
Injection Date: 19-JAN-2017 16:54
Instrument: 50mv5a.i
Lab Sample ID: 50163047004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

GP-3 2-4'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 22:41
Lab Sample ID: 50163047005
Date Analyzed: 01/18/2017 22:41
Lab File ID: A011817.B\A17.D
Initial wt/vol: 6.356 g Final wt/vol: 5 mL Dilution: 100
Instrument: 50MV5A Percent Moisture: 19.7%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	1.0	
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-3 2-4'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 22:41
Lab Sample ID: 50163047005
Date Analyzed: 01/18/2017 22:41
Lab File ID: A011817.B\A17.D
Initial wt/vol: 6.356 g Final wt/vol: 5 mL Dilution: 100
Instrument: 50MV5A Percent Moisture: 19.7%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	6.6	
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	0.57	
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	2.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	2.6	
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d
Lab Smp Id: 50163047005 Client Smp ID: GP-3 2-4'
Inj Date : 18-JAN-2017 22:41
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047005x100
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 18
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.419	2.424	(0.544)	87093	67.3560	6740	
$ 37 Dibromofluoromethane (S)	113	3.617	3.617	(0.814)	34216	47.7871	47.8	
151 n-butyl chloride	56	3.769	3.774	(0.848)	180533	108.233	10800	
44 2,2,4-Trimethylpentane	57	4.224	4.229	(0.951)	797041	246.156	24600	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	142932	50.0000		
48 Methylcyclohexane	55	5.144	5.144	(1.158)	75824	60.2351	6020	
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	138198	50.9899	51.0	
58 Toluene	91	6.321	6.321	(0.840)	983	0.30373	30.4	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	111696	50.0000		
70 Ethylbenzene	106	7.623	7.623	(1.013)	5682	4.62523	462	
75 Isopropylbenzene	105	8.219	8.219	(1.092)	23990	5.77447	577	
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	59326	52.1814	52.2	
81 n-Propylbenzene	91	8.476	8.476	(0.941)	128728	26.9746	2700	
83 1,3,5-Trimethylbenzene	105	8.554	8.586	(0.949)	1491	0.43940	43.9(Q)	
87 sec-Butylbenzene	105	8.894	8.889	(0.987)	14067	2.97045	297	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	64516	50.0000		
92 n-Butylbenzene	91	9.198	9.192	(1.021)	39194	10.6198	1060	
97 Naphthalene	128	10.191	10.191	(1.131)	13796	4.12838	413	
99 2,methyl-naphthalene	142	10.850	10.845	(1.204)	31795	20.9427	2090	
150 1-Methylnaphthalene	142	10.971	10.971	(1.218)	12923	9.46154	946	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d
Report Date: 19-Jan-2017 08:50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

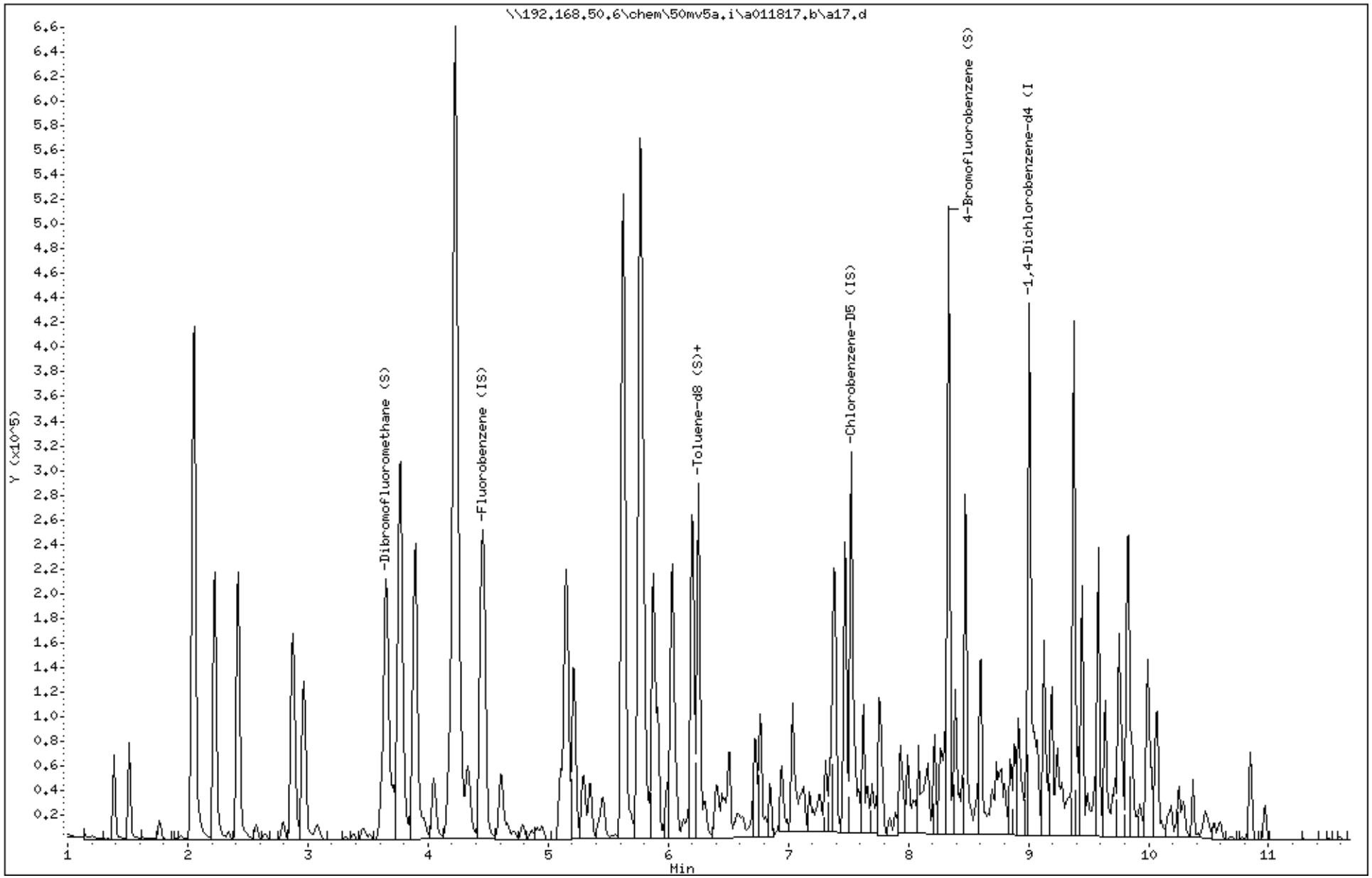
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d
Date : 18-JAN-2017 22:41
Client ID: GP-3 2-4'
Sample Info: 50163047005x100

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

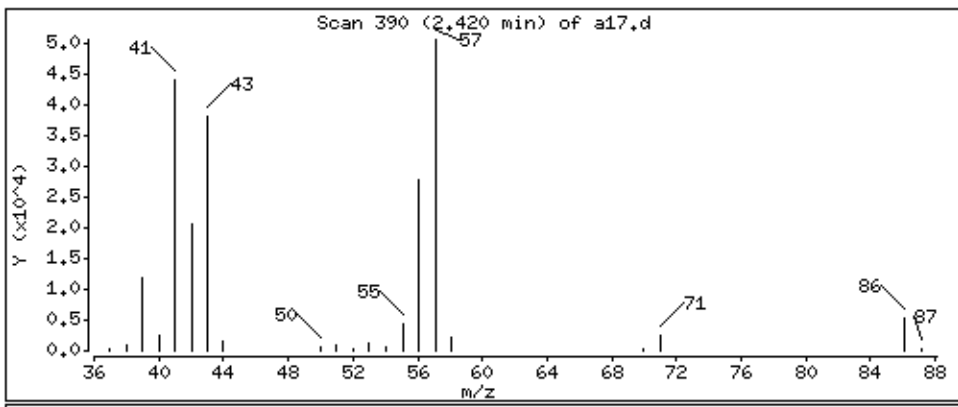
Operator: TMW

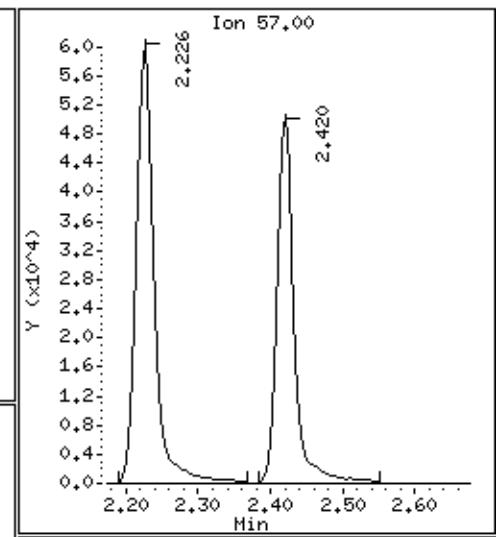
Column phase: DB-624

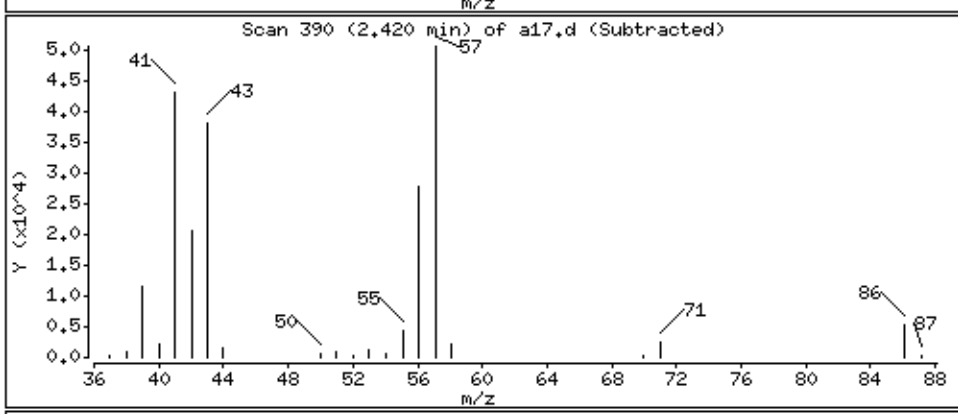
Column diameter: 0.18

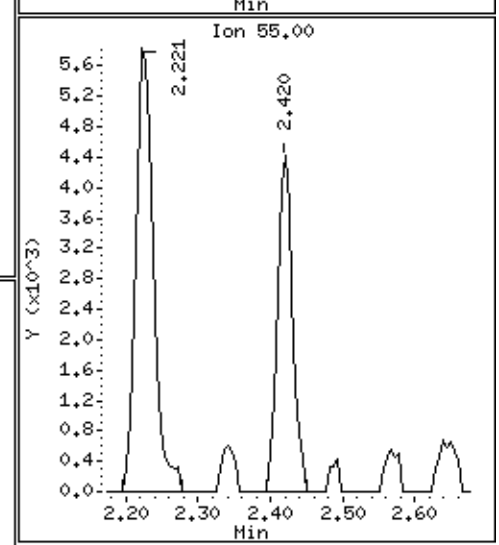
23 n-Hexane

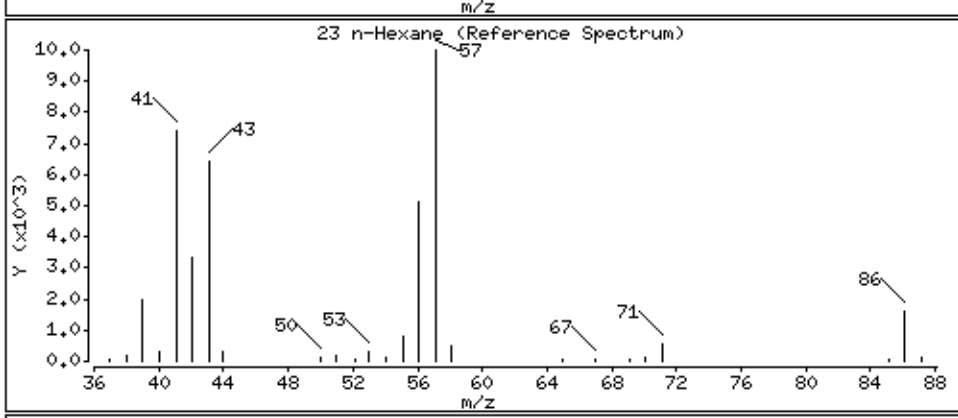
Concentration: 6740 ppb

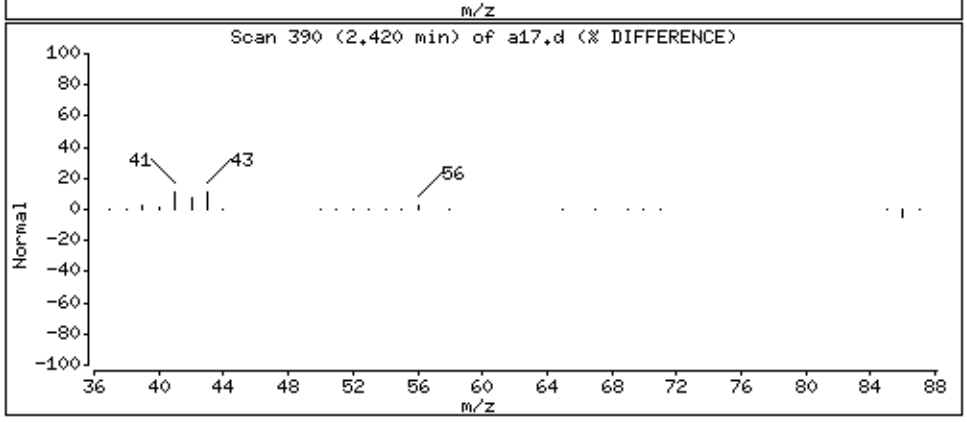












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

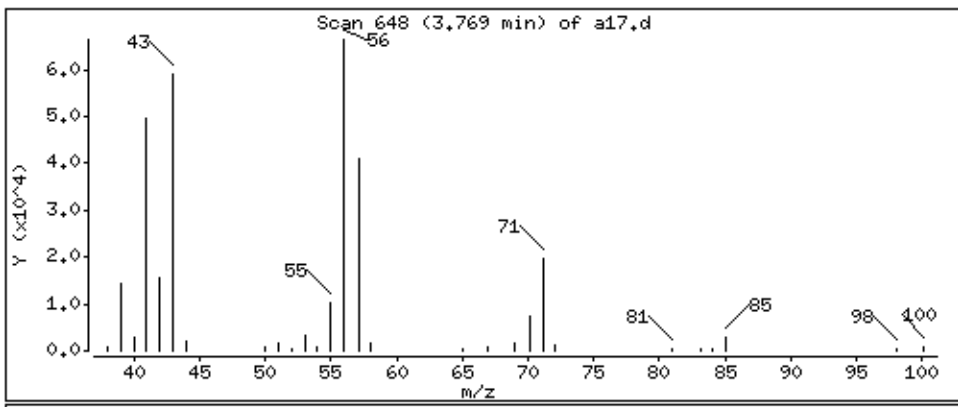
Operator: TMW

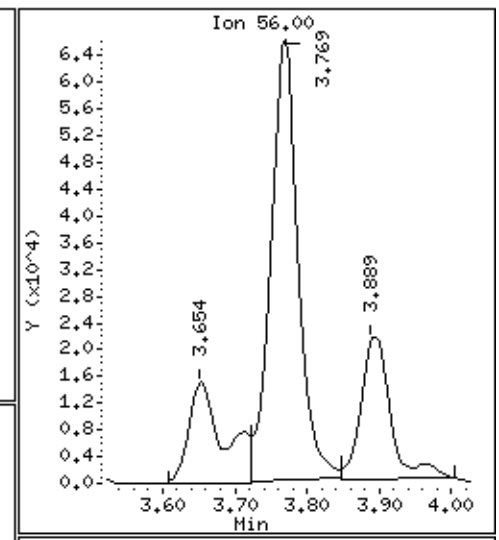
Column phase: DB-624

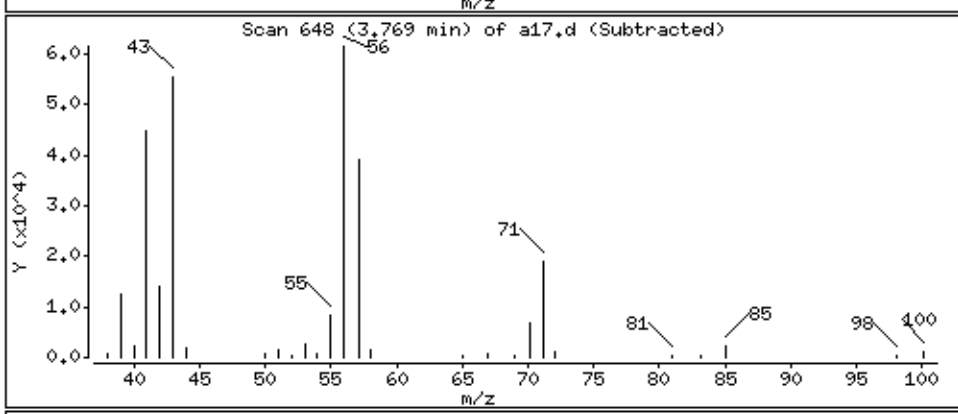
Column diameter: 0.18

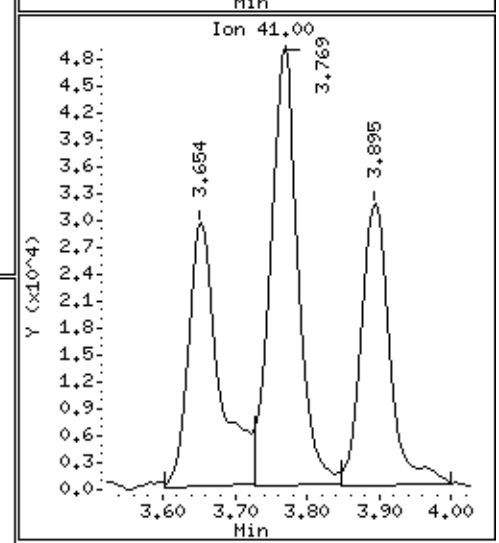
151 n-butyl chloride

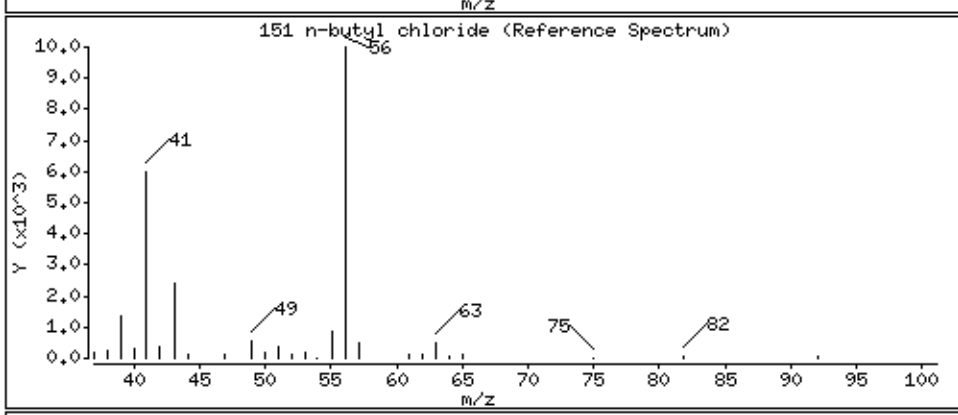
Concentration: 10800 ppb

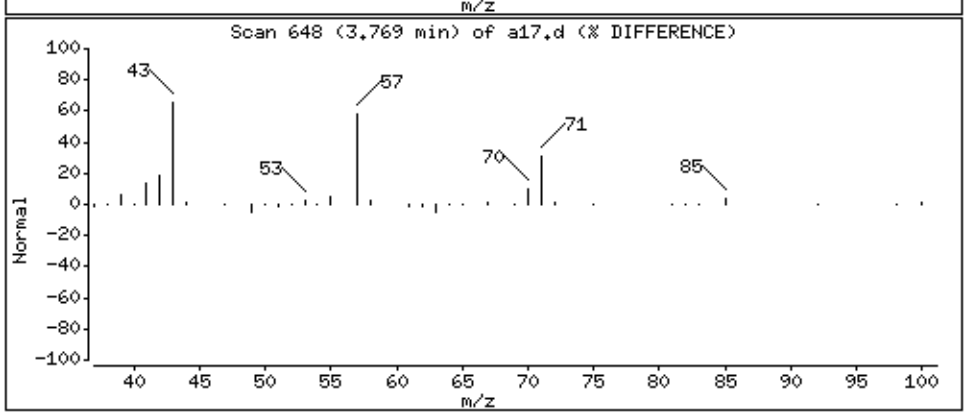












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

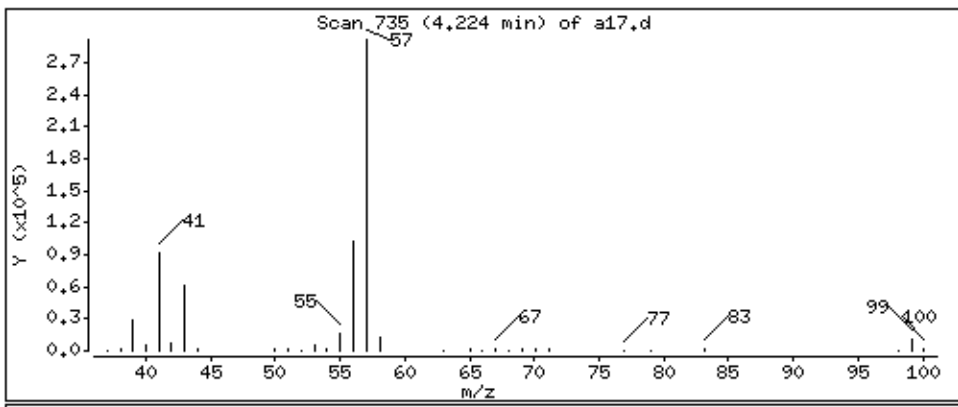
Operator: TMW

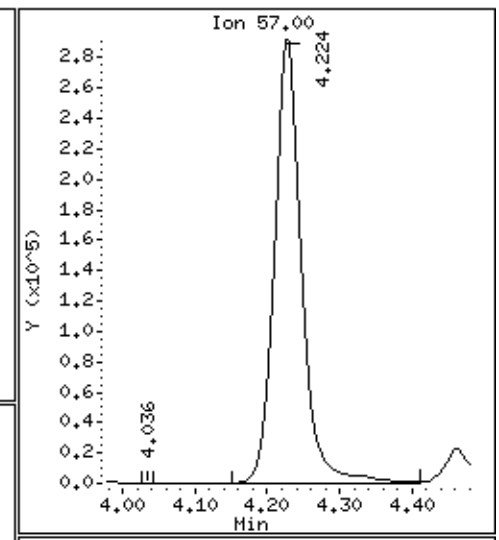
Column phase: DB-624

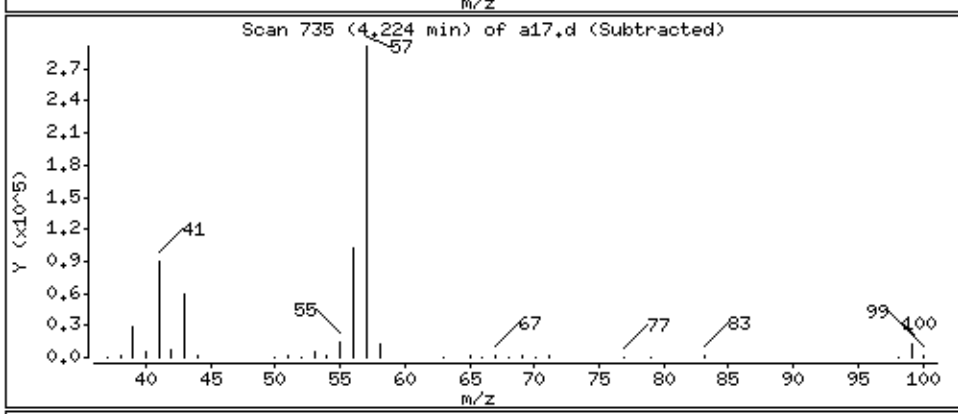
Column diameter: 0.18

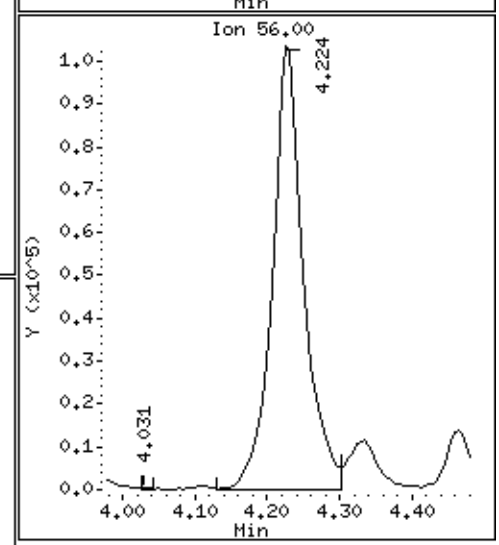
44 2,2,4-Trimethylpentane

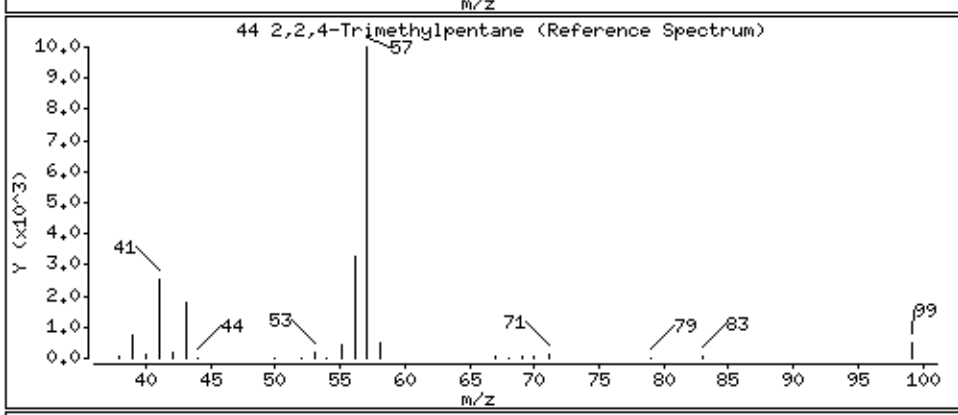
Concentration: 24600 ppb

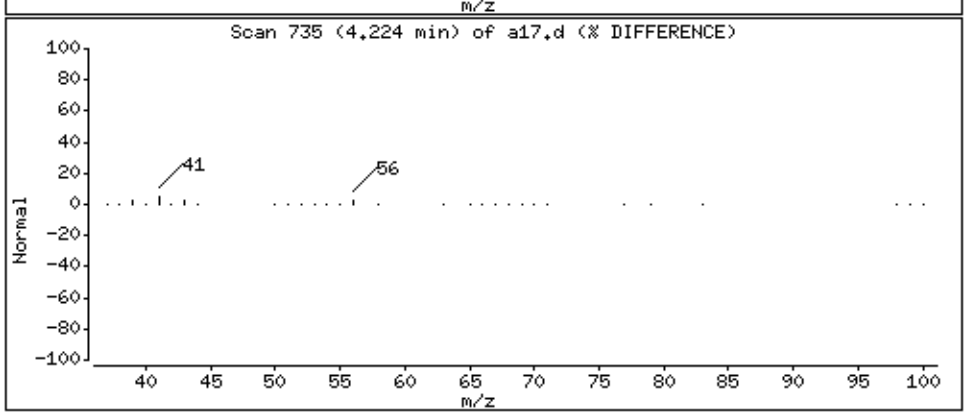












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

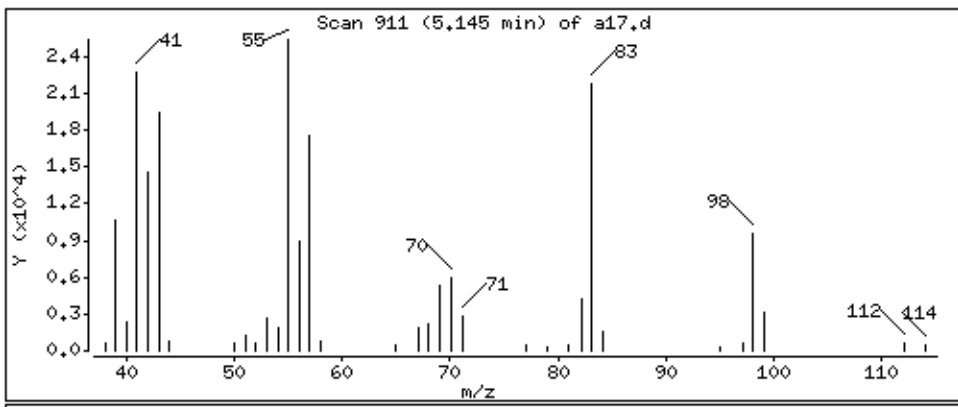
Operator: TMW

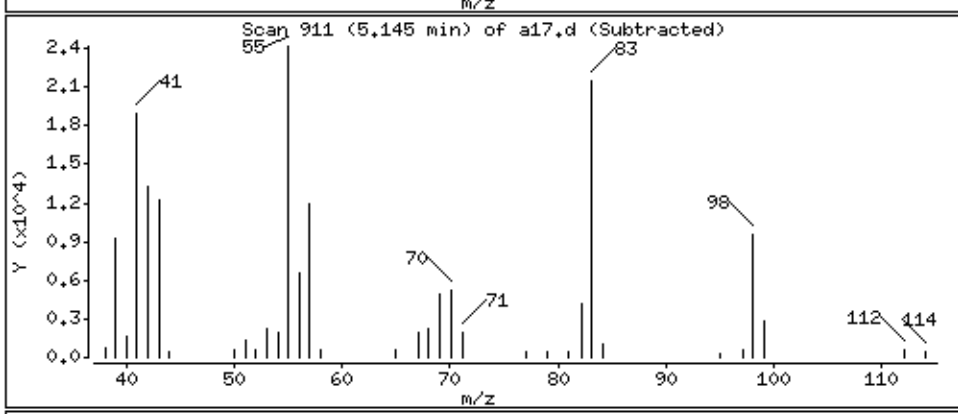
Column phase: DB-624

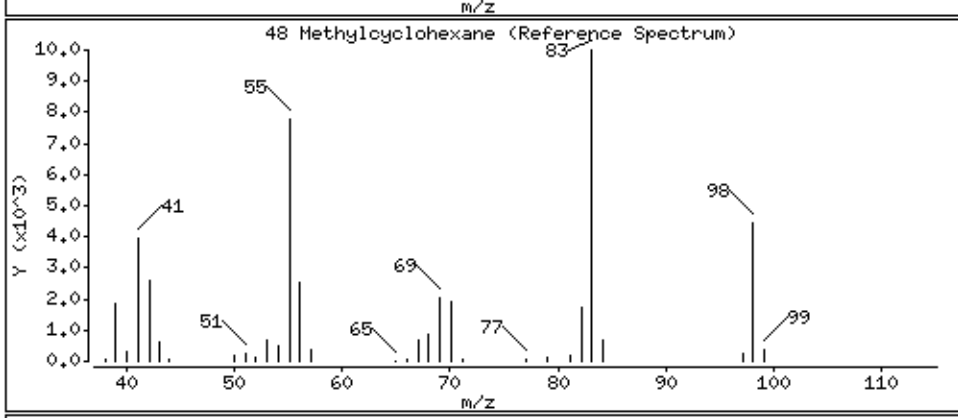
Column diameter: 0.18

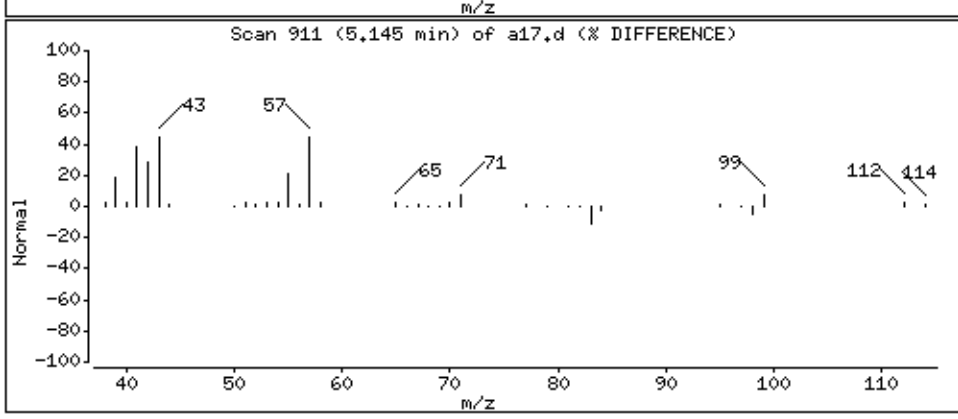
48 Methylcyclohexane

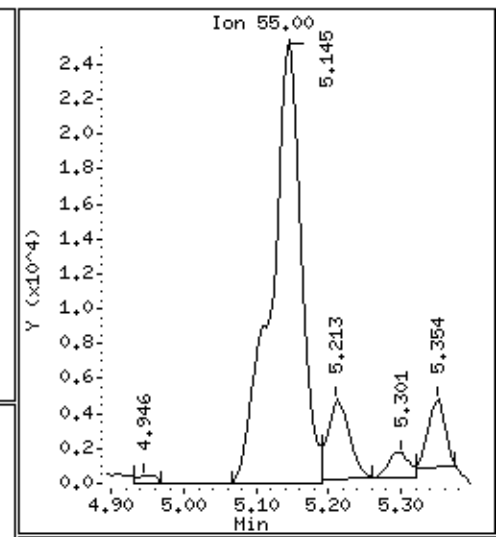
Concentration: 6020 ppb

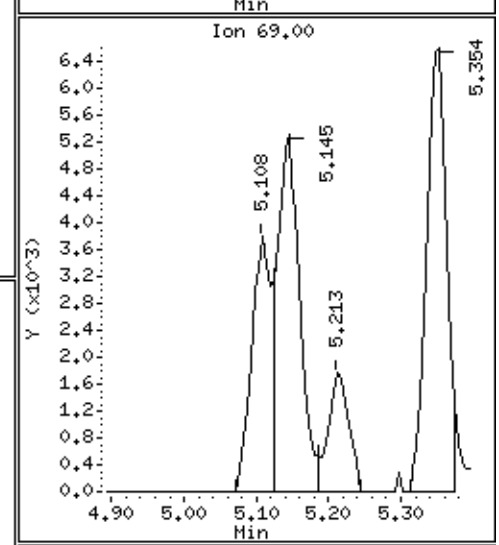


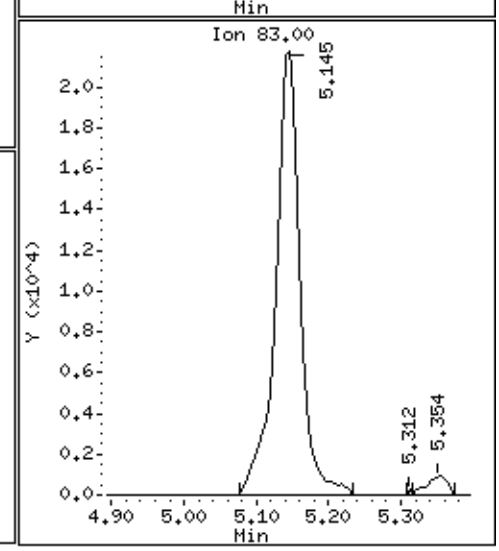












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

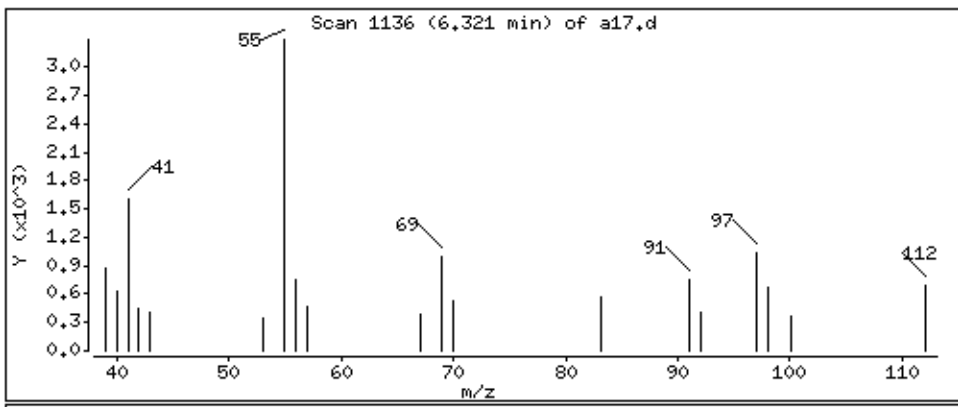
Operator: TMW

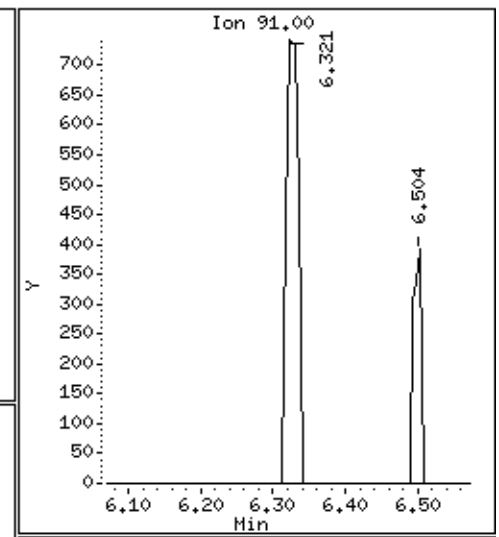
Column phase: DB-624

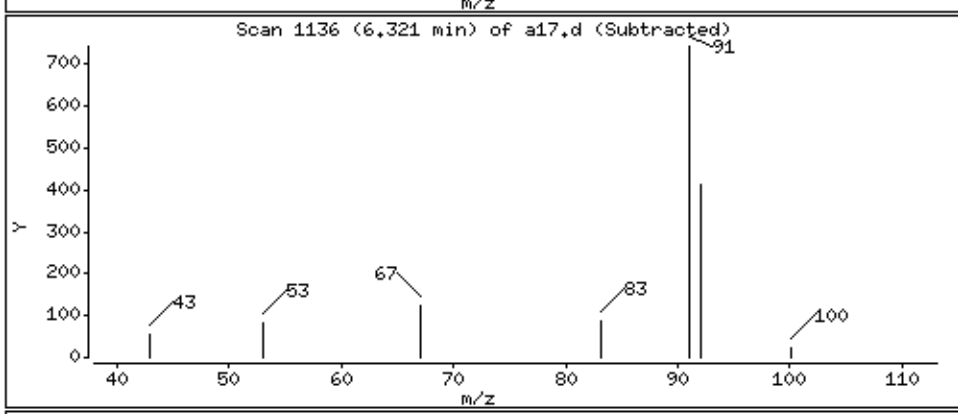
Column diameter: 0.18

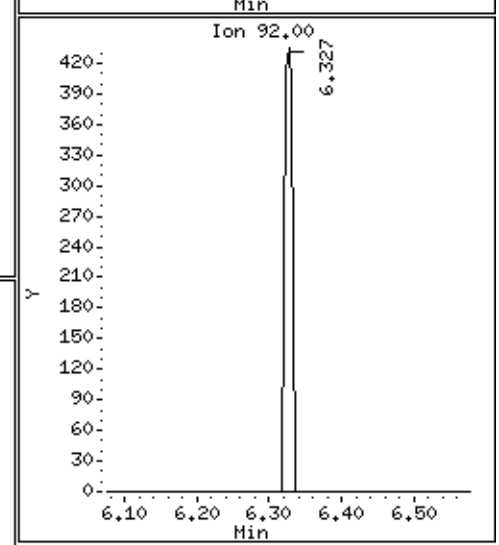
58 Toluene

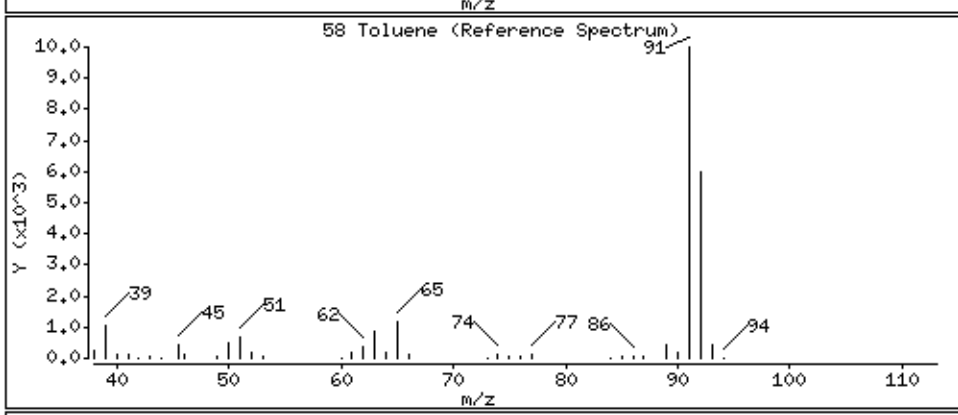
Concentration: 30.4 ppb

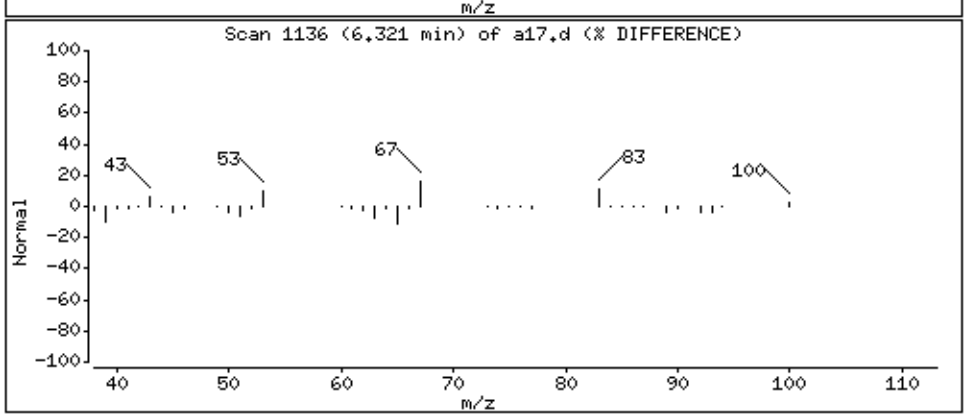












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Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

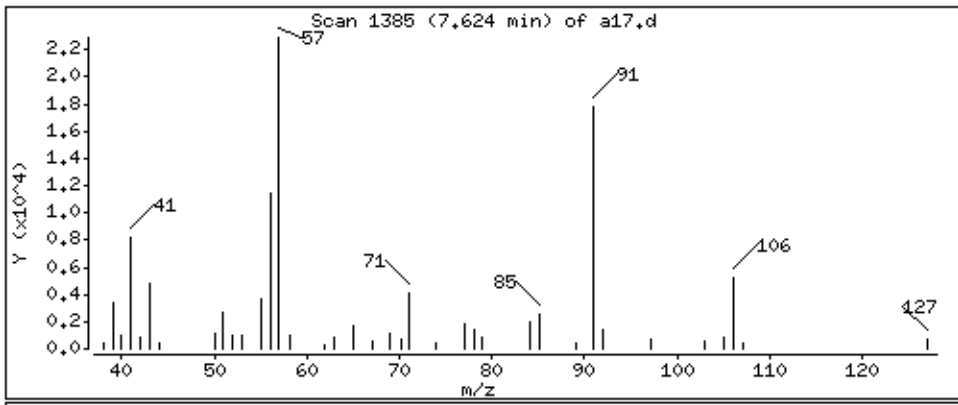
Operator: TMW

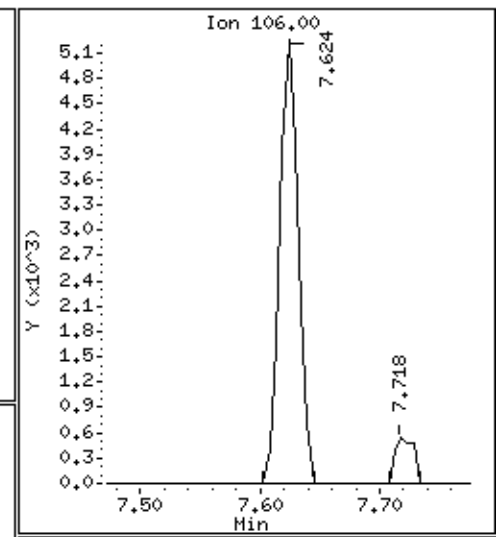
Column phase: DB-624

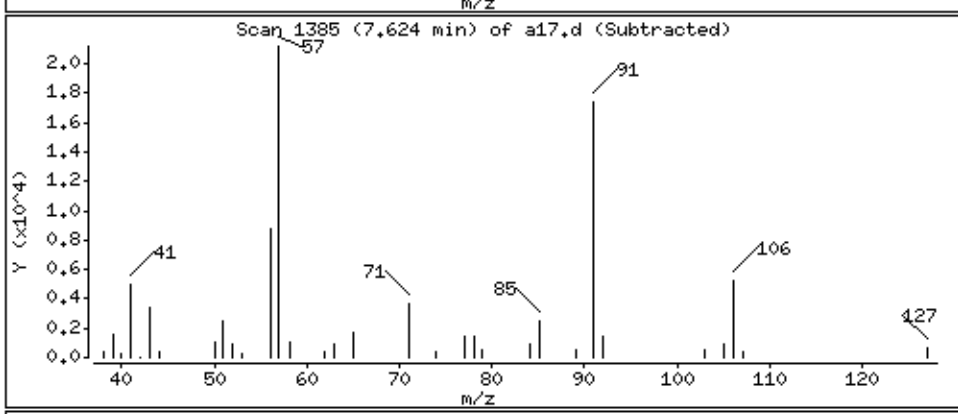
Column diameter: 0.18

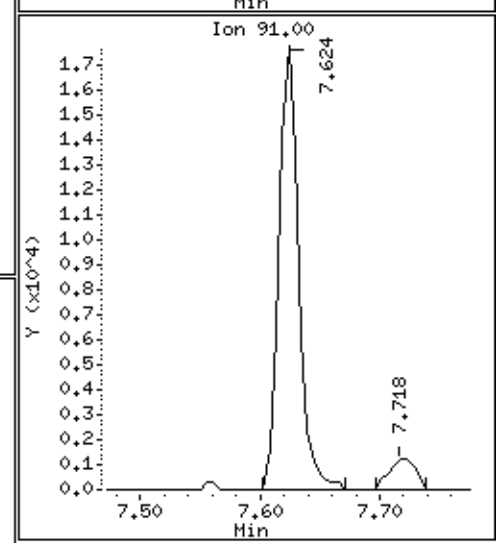
70 Ethylbenzene

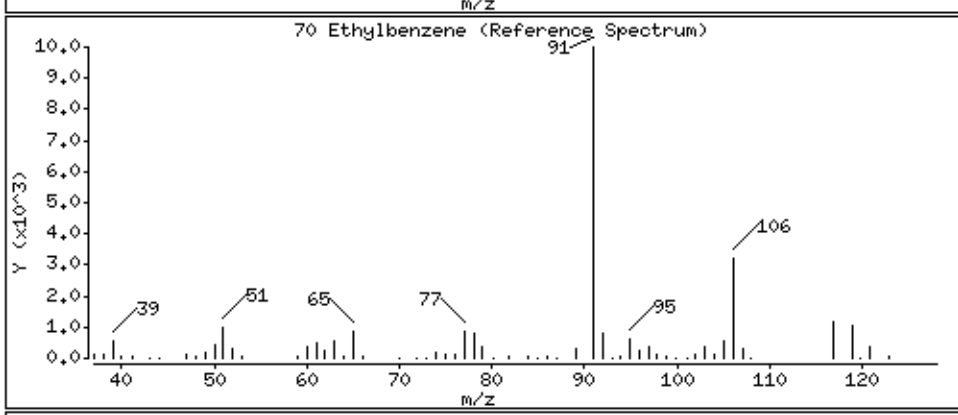
Concentration: 462 ppb

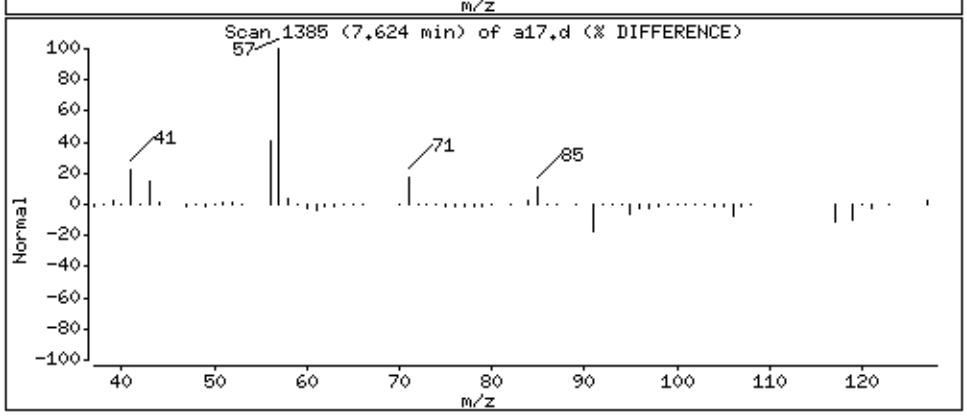












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

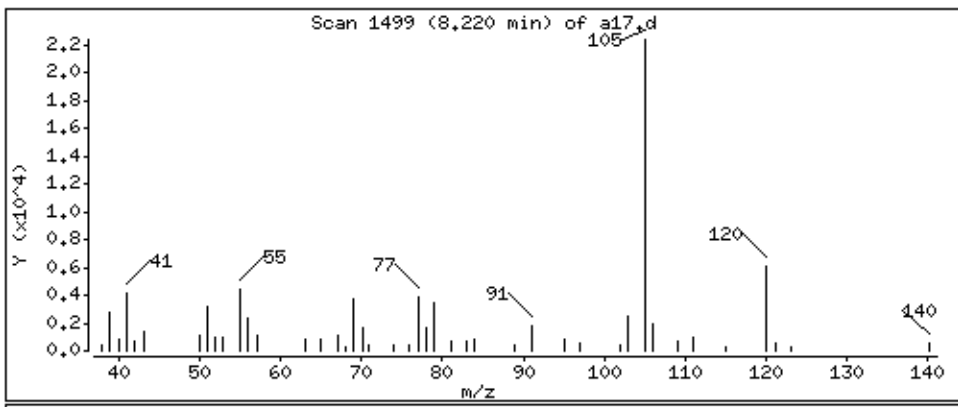
Operator: TMW

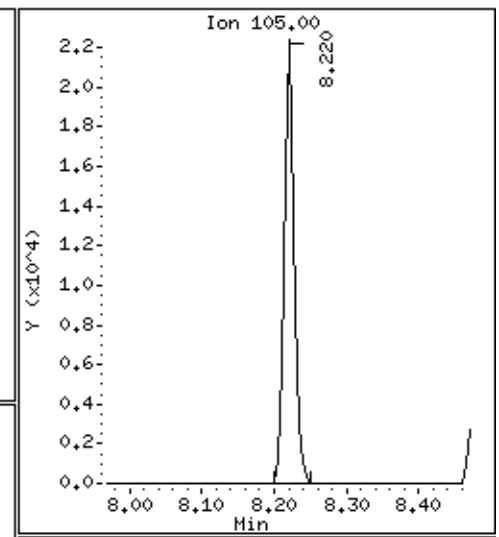
Column phase: DB-624

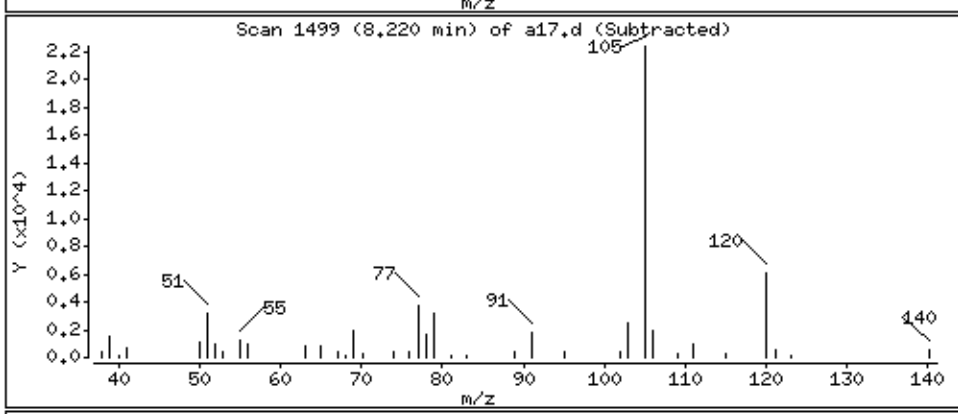
Column diameter: 0.18

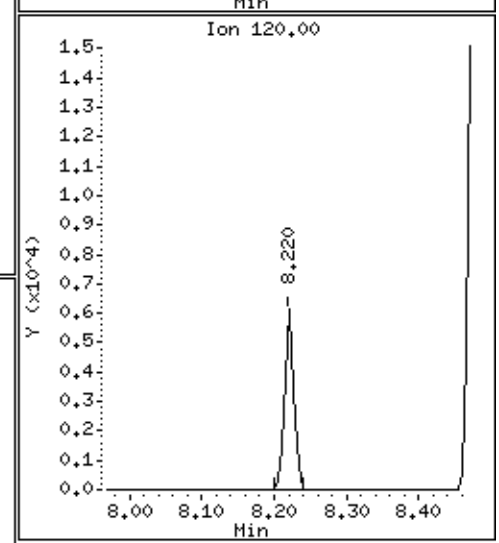
75 Isopropylbenzene

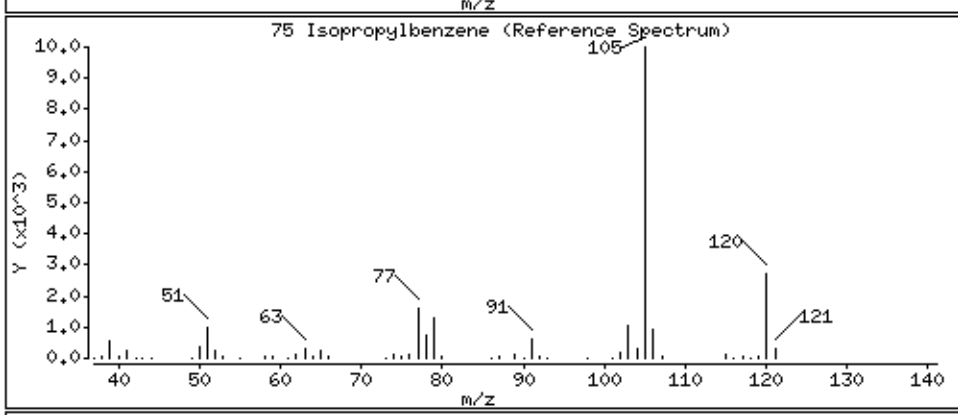
Concentration: 577 ppb

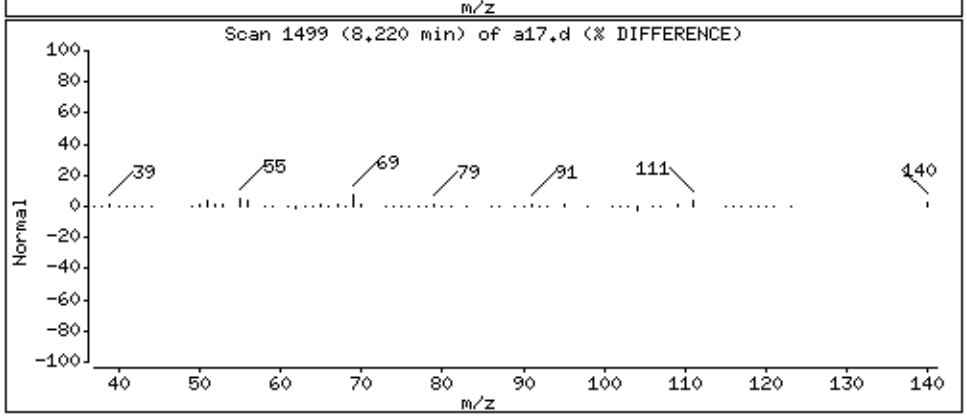












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

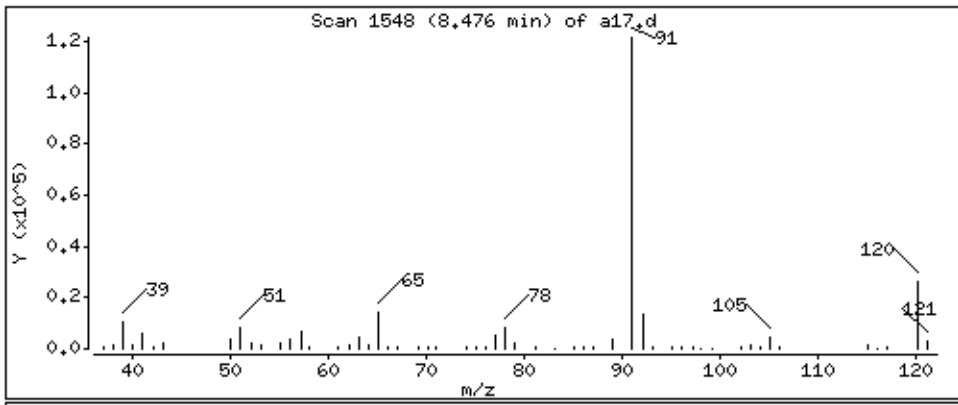
Operator: TMW

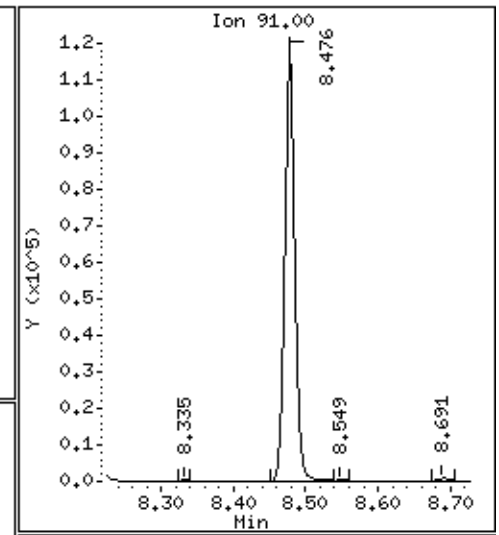
Column phase: DB-624

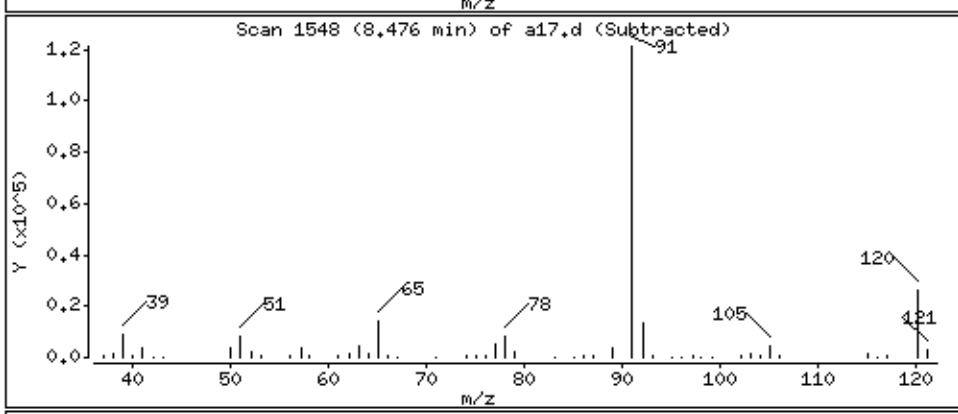
Column diameter: 0.18

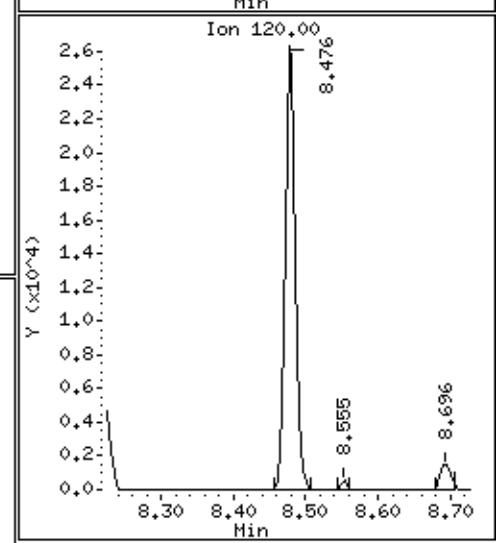
81 n-Propylbenzene

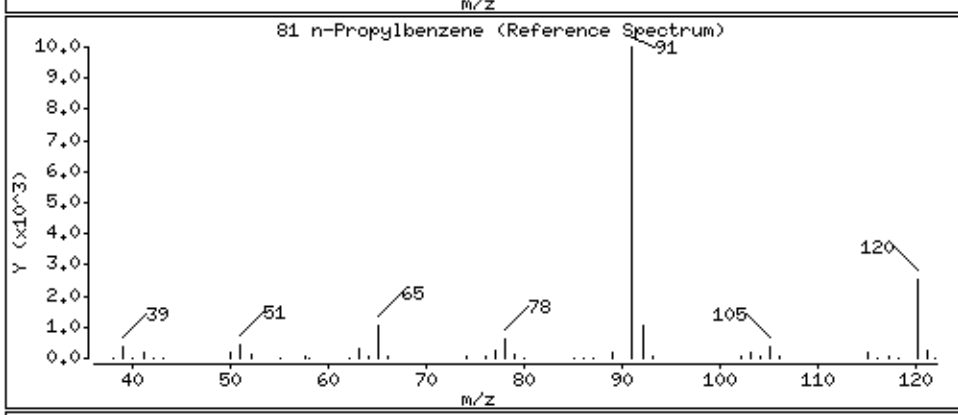
Concentration: 2700 ppb

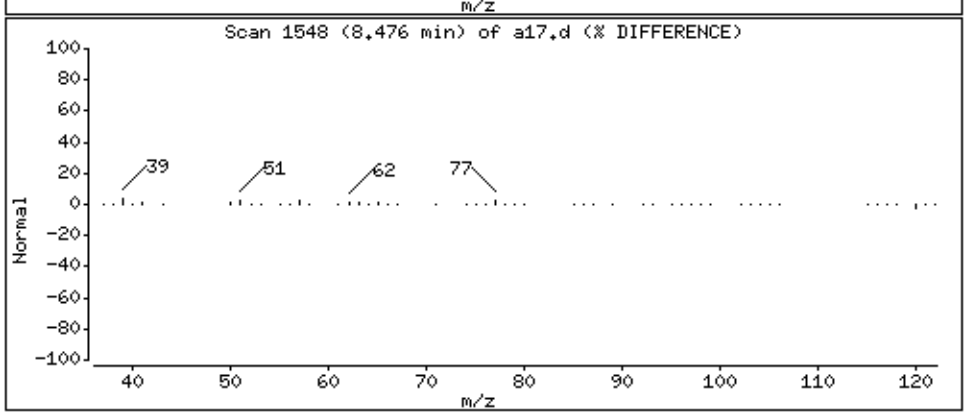












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

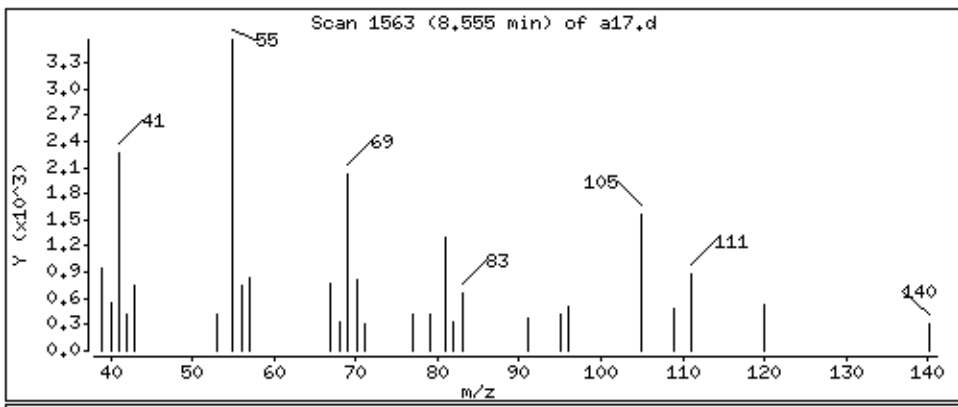
Operator: TMW

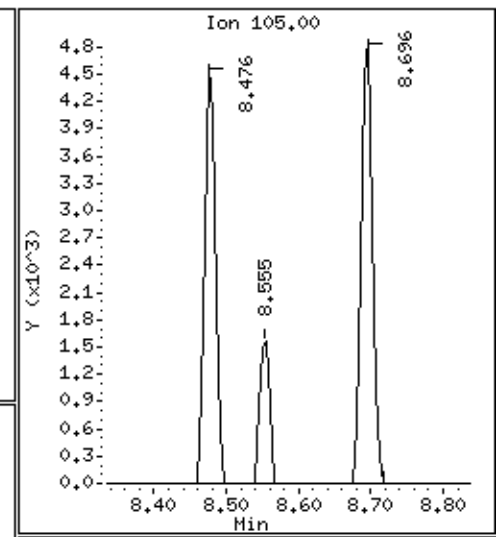
Column phase: DB-624

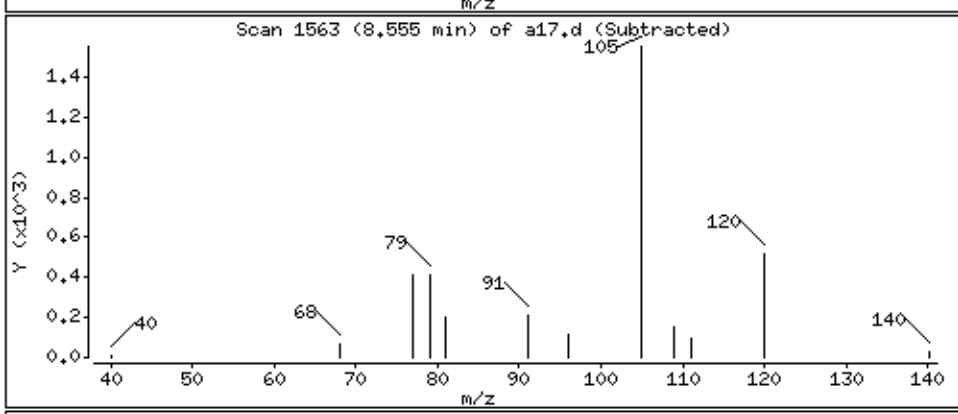
Column diameter: 0.18

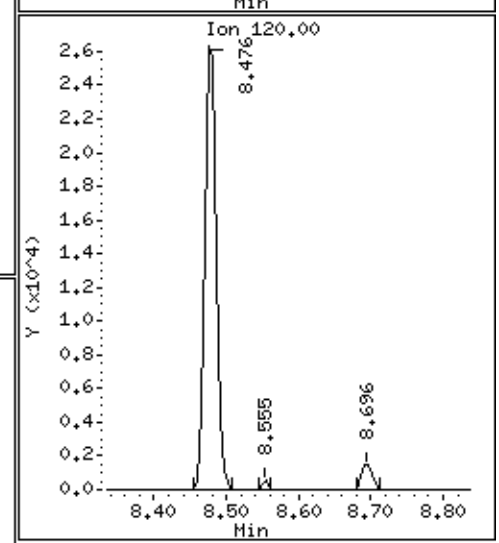
83 1,3,5-Trimethylbenzene

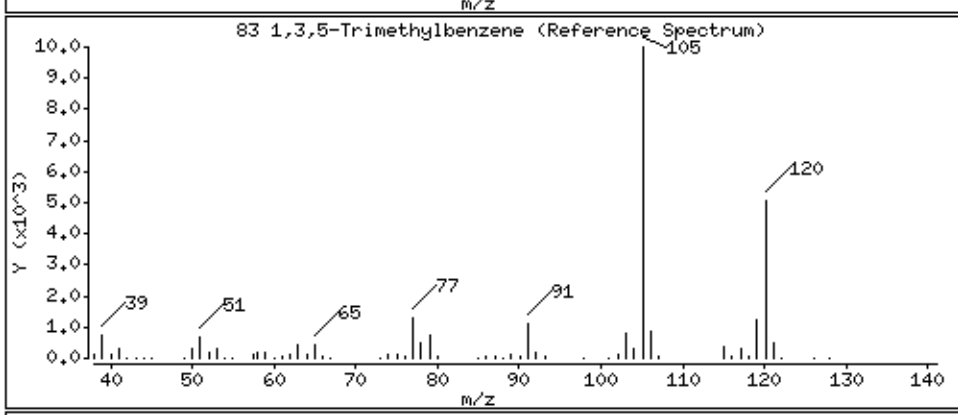
Concentration: 43.9 ppb

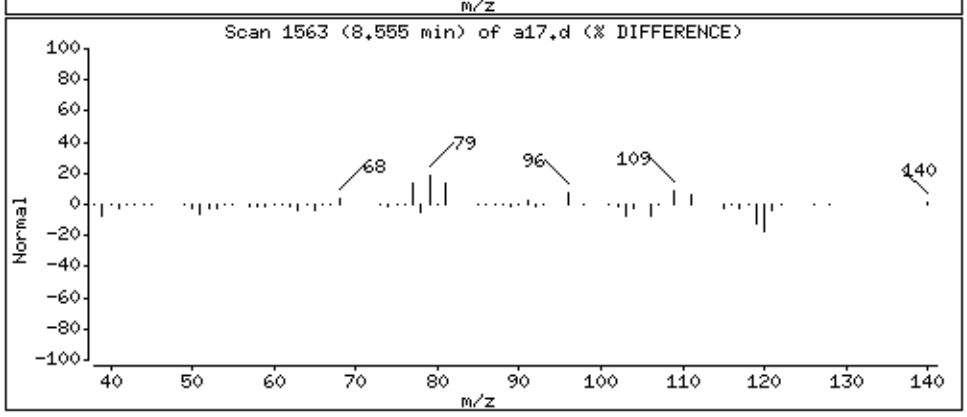












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

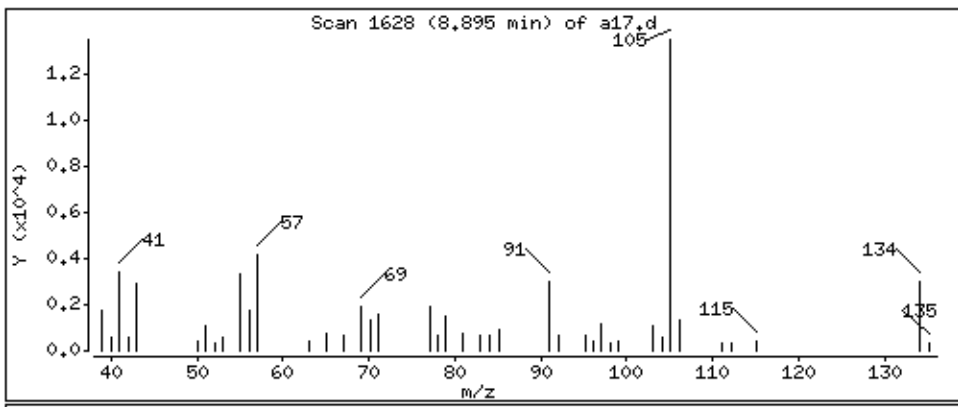
Operator: TMW

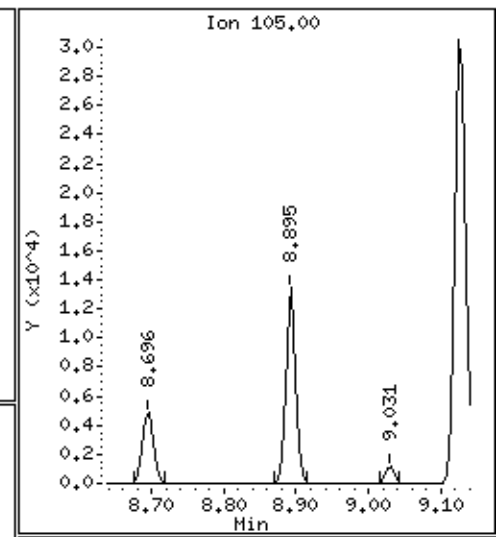
Column phase: DB-624

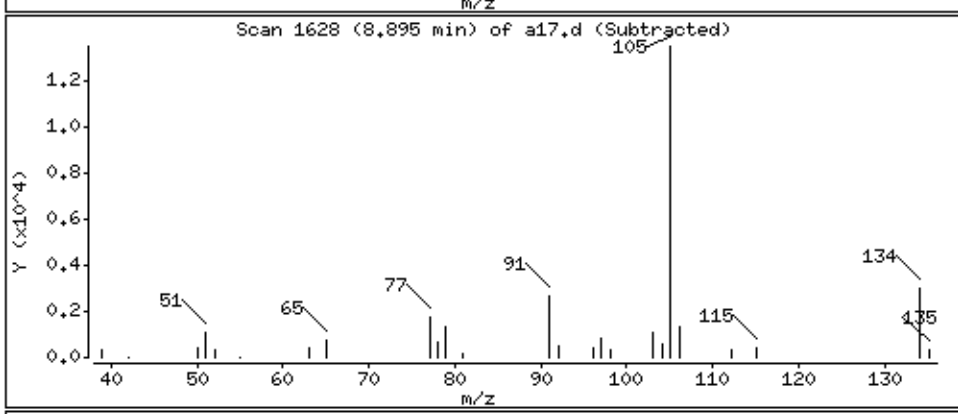
Column diameter: 0.18

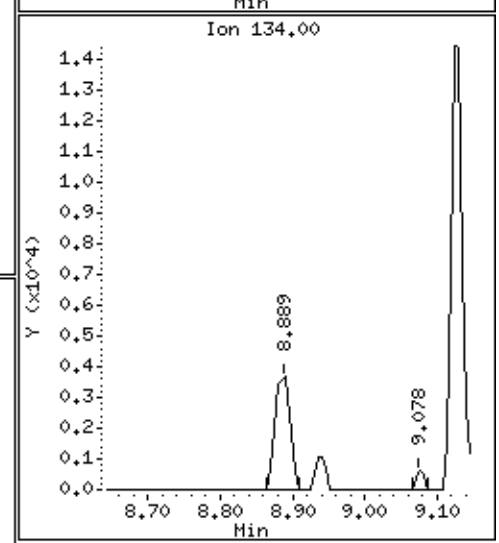
87 sec-Butylbenzene

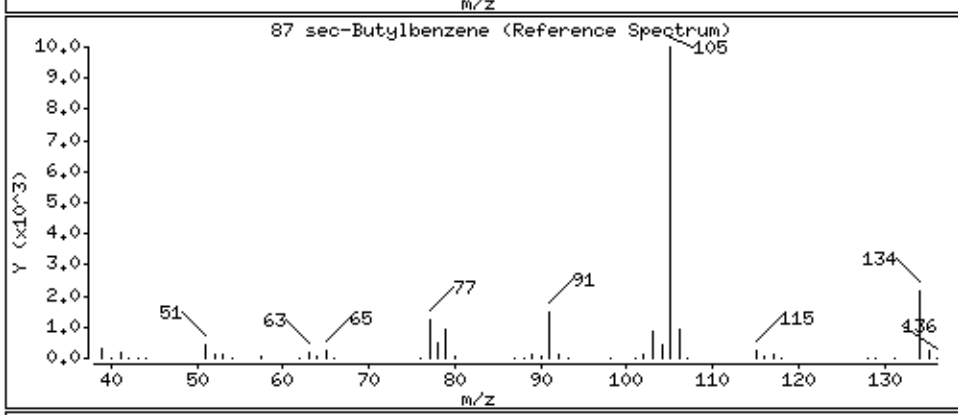
Concentration: 297 ppb

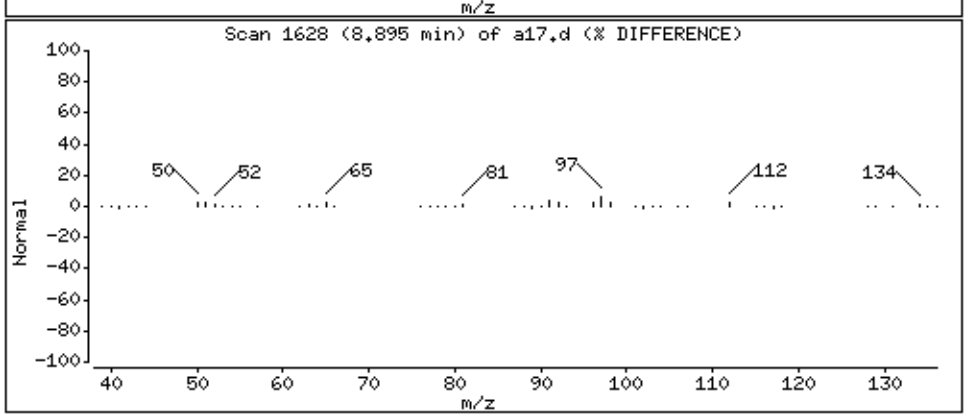












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

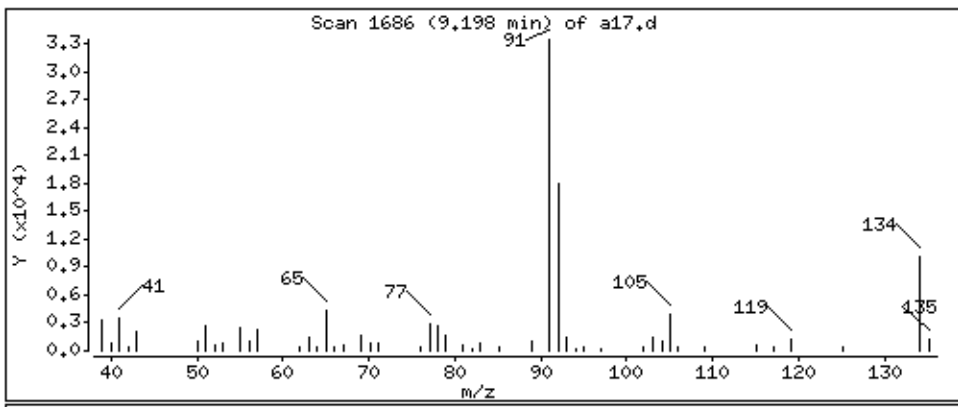
Operator: TMW

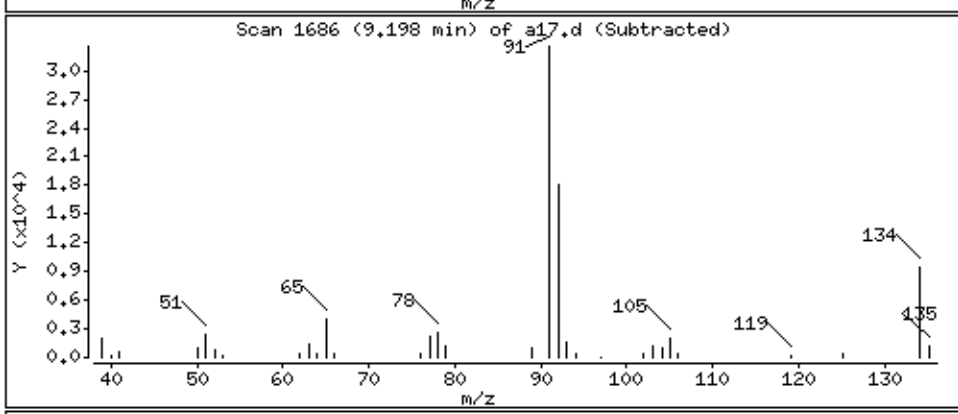
Column phase: DB-624

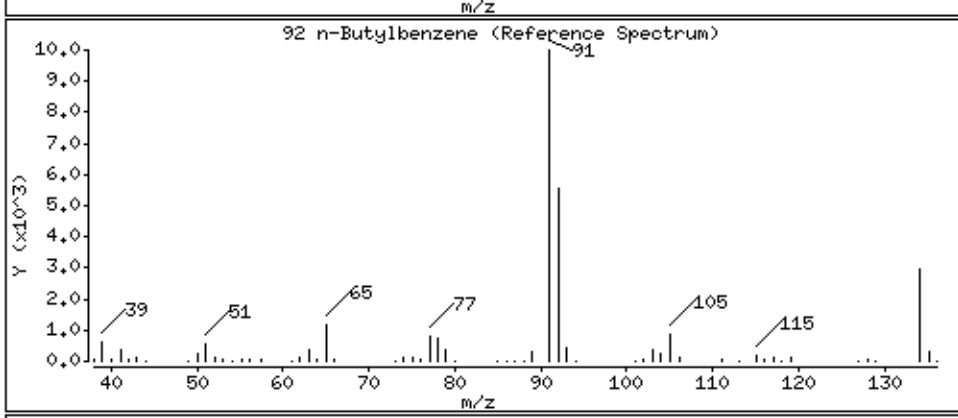
Column diameter: 0.18

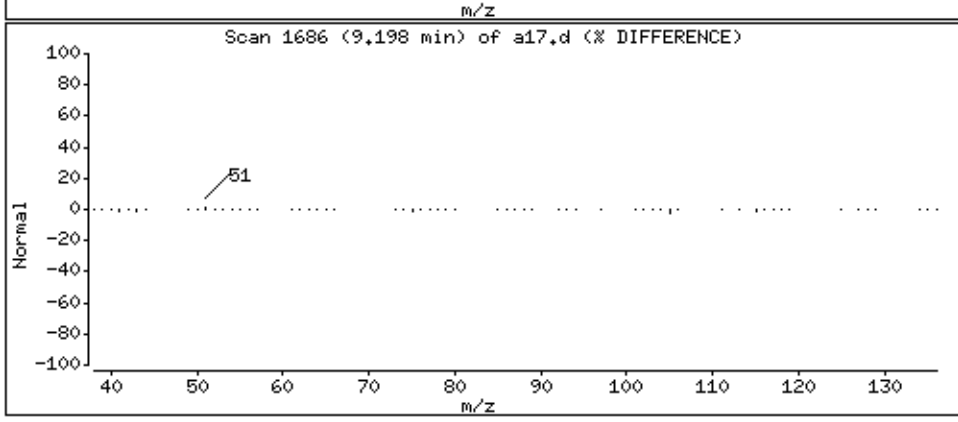
92 n-Butylbenzene

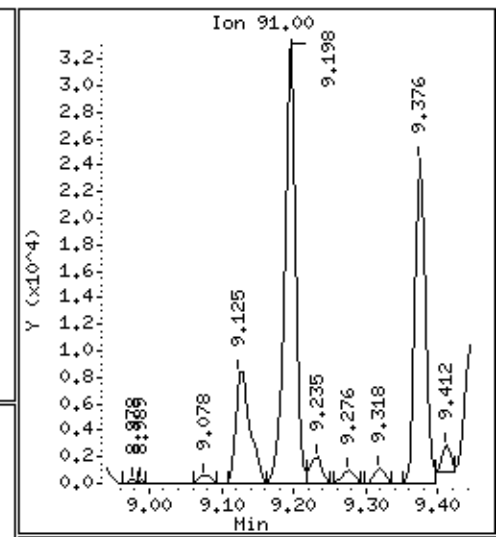
Concentration: 1060 ppb

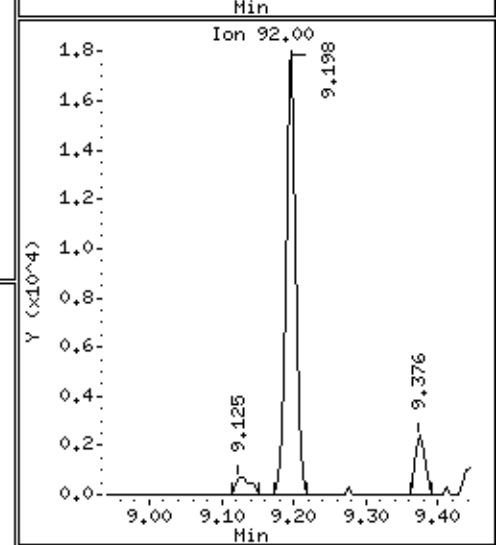


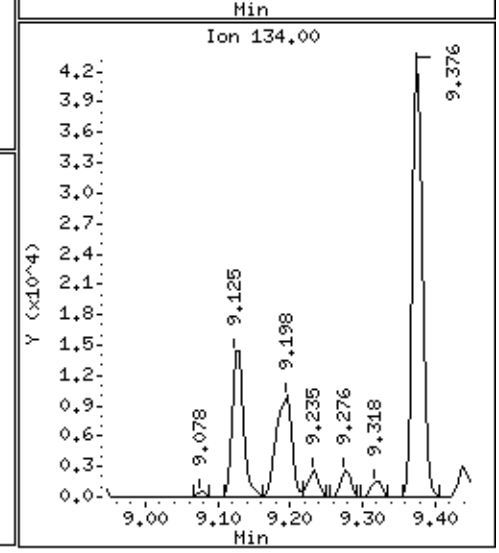












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

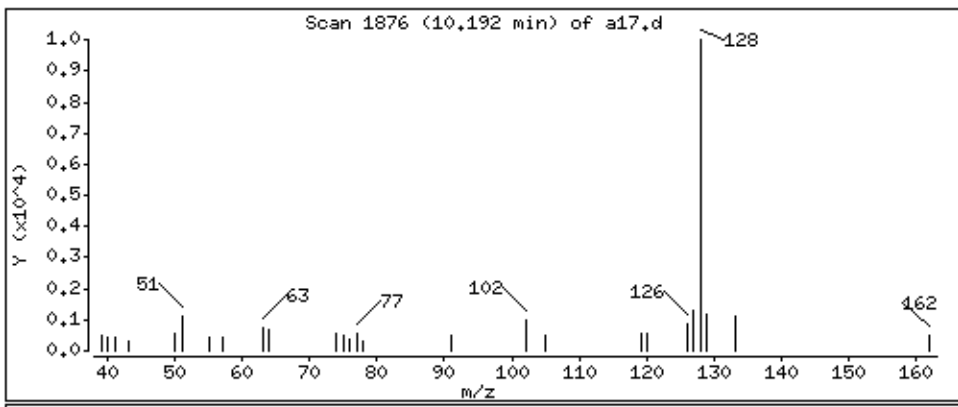
Operator: TMW

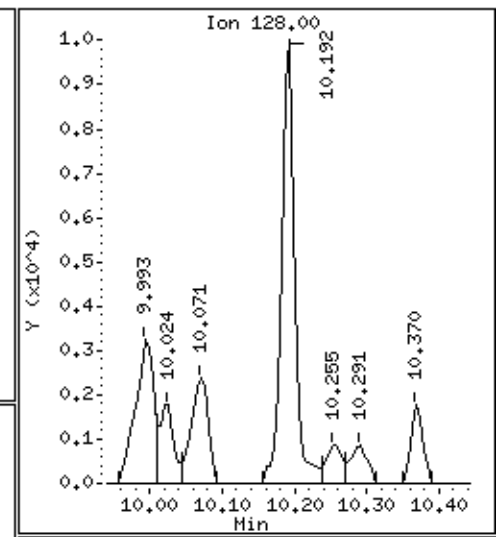
Column phase: DB-624

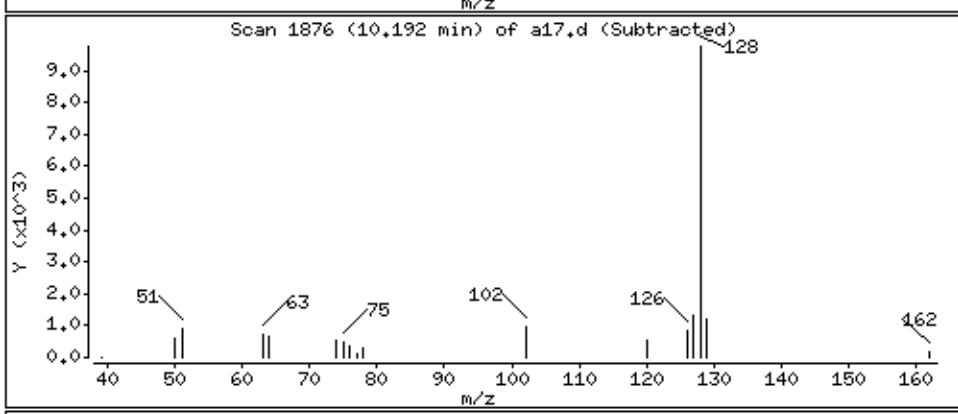
Column diameter: 0.18

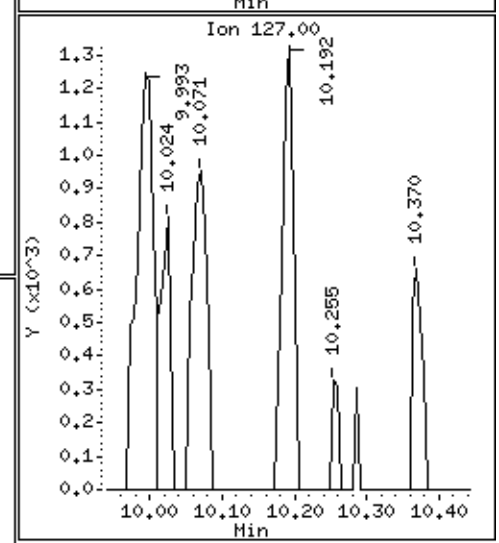
97 Naphthalene

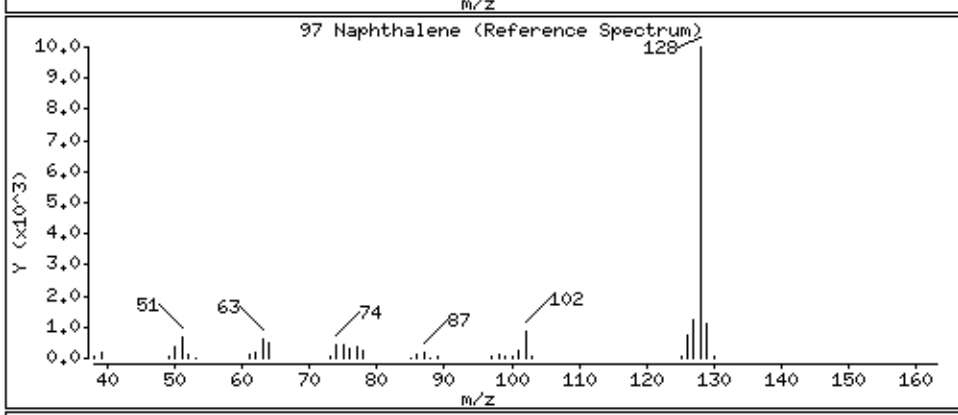
Concentration: 413 ppb

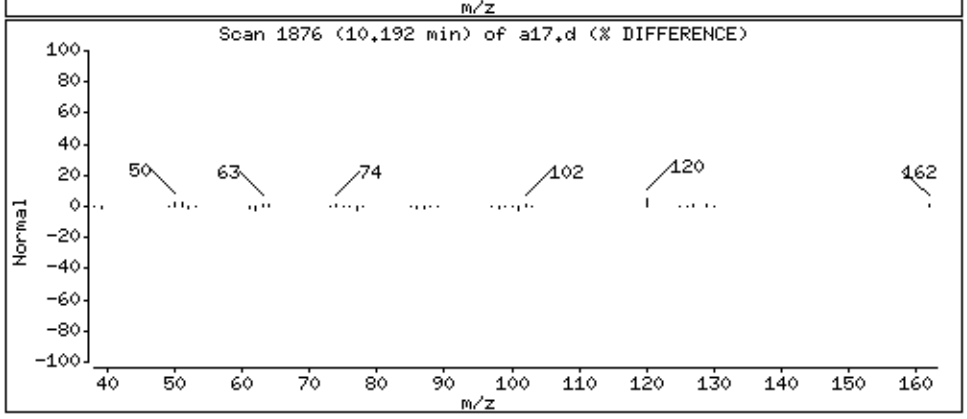












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

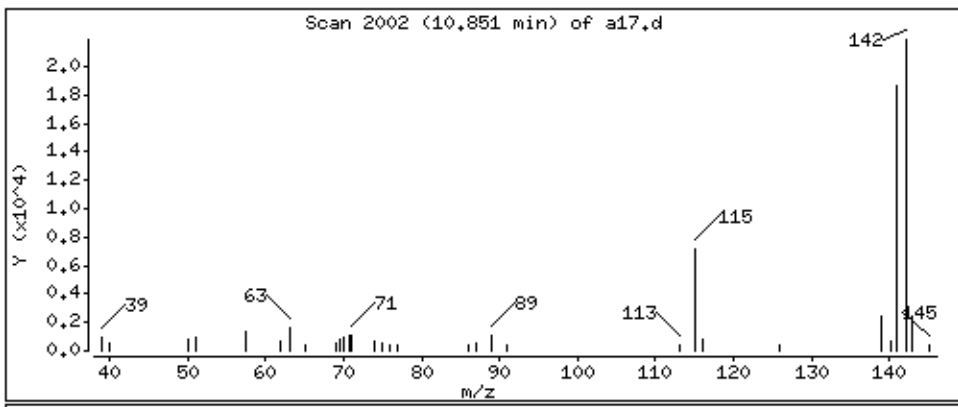
Operator: TMW

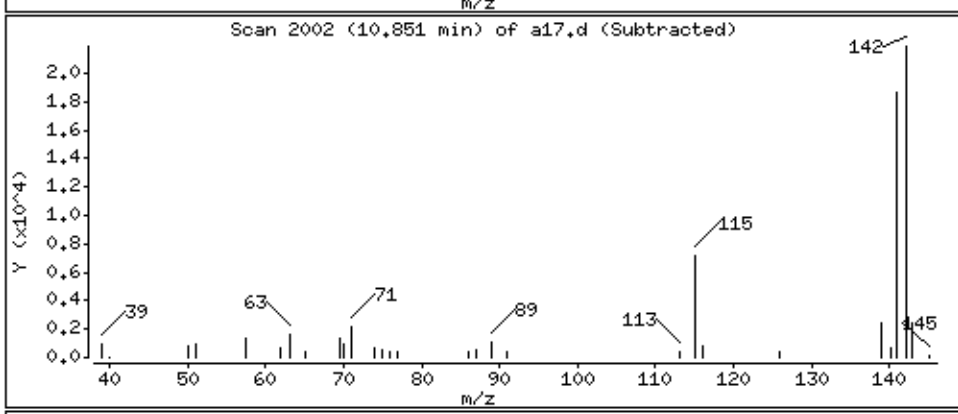
Column phase: DB-624

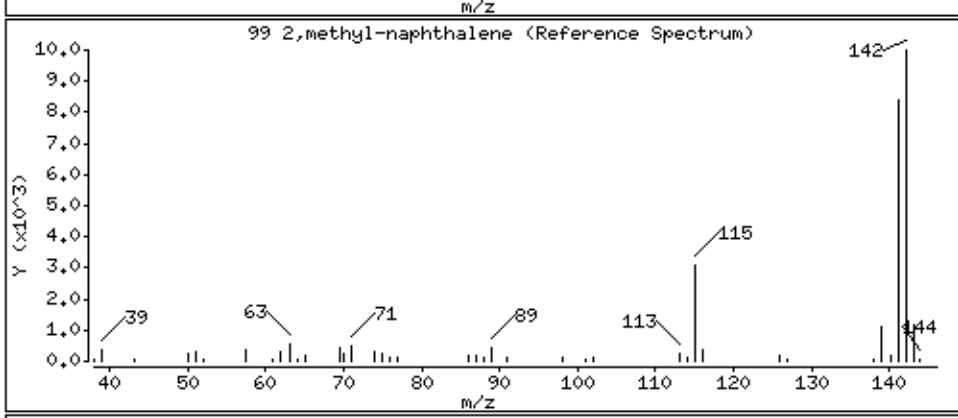
Column diameter: 0.18

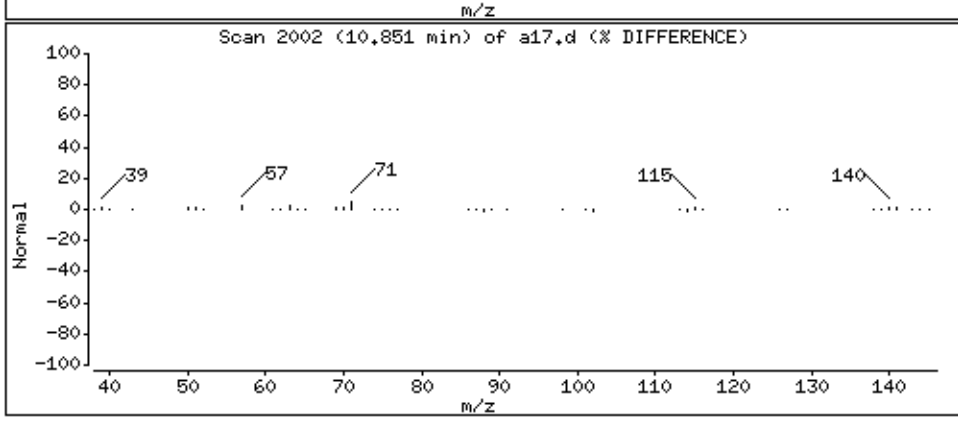
99 2,methyl-naphthalene

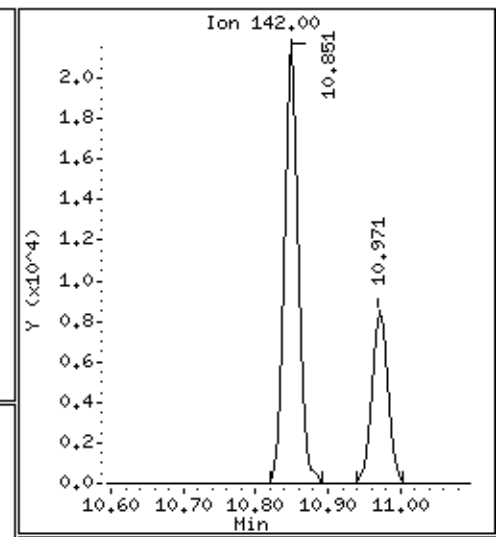
Concentration: 2090 ppb

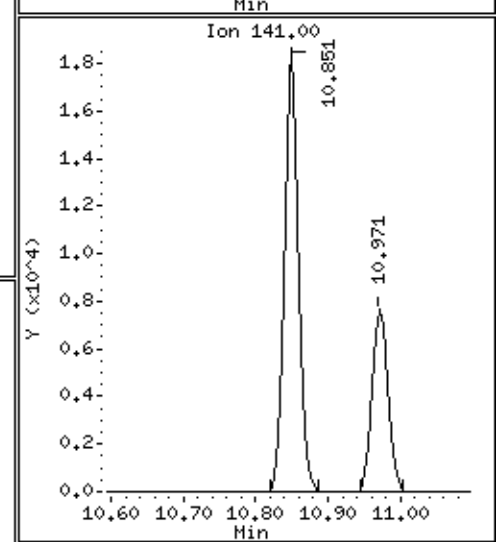


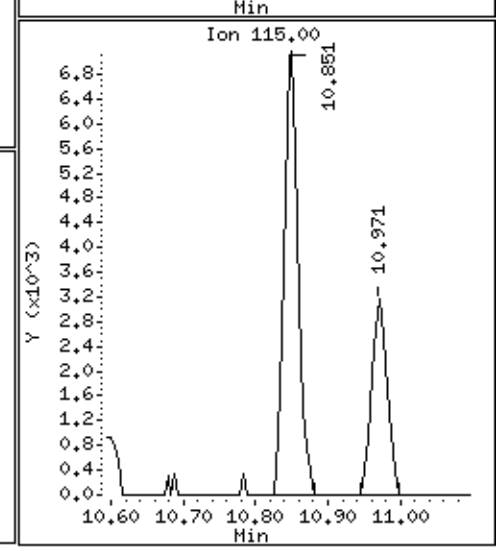












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a17.d

Date : 18-JAN-2017 22:41

Client ID: GP-3 2-4'

Instrument: 50mv5a.i

Sample Info: 50163047005x100

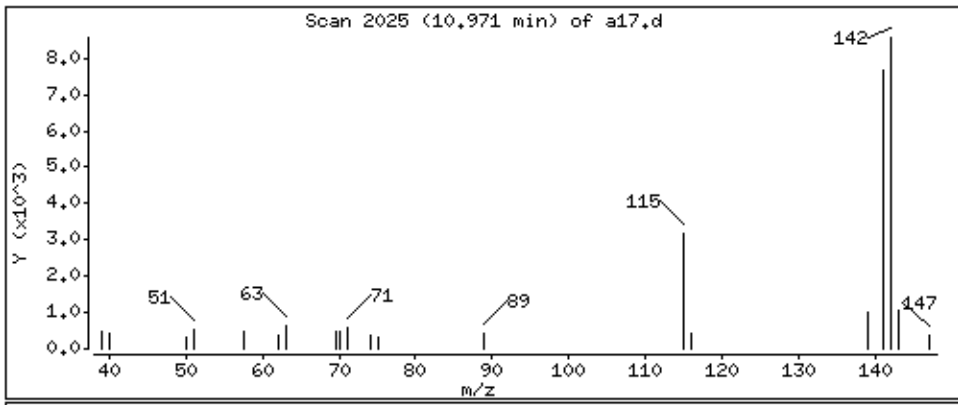
Operator: TMW

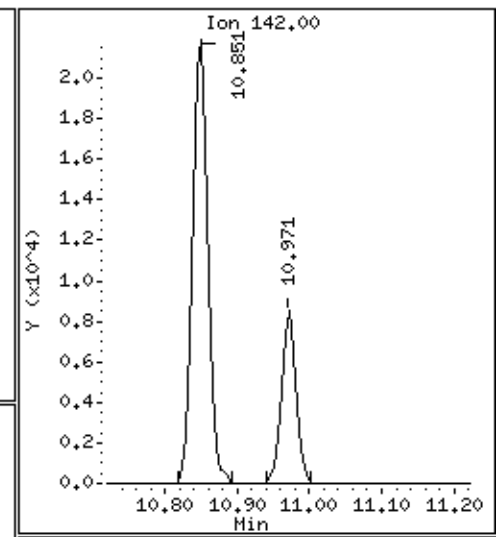
Column phase: DB-624

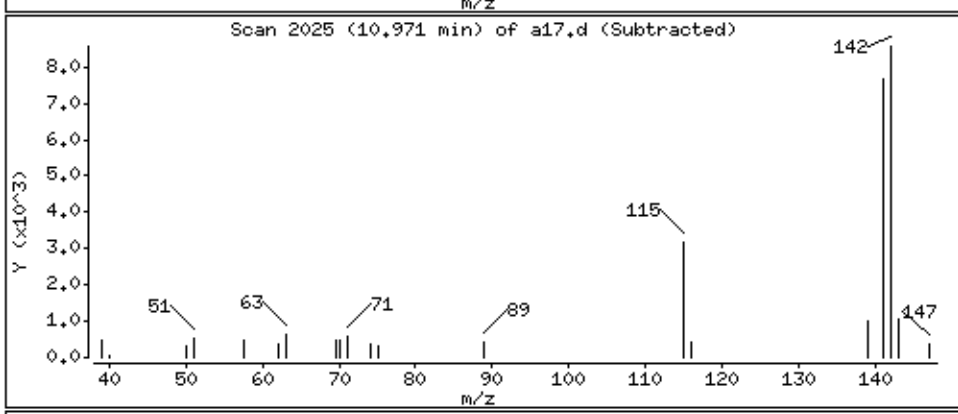
Column diameter: 0.18

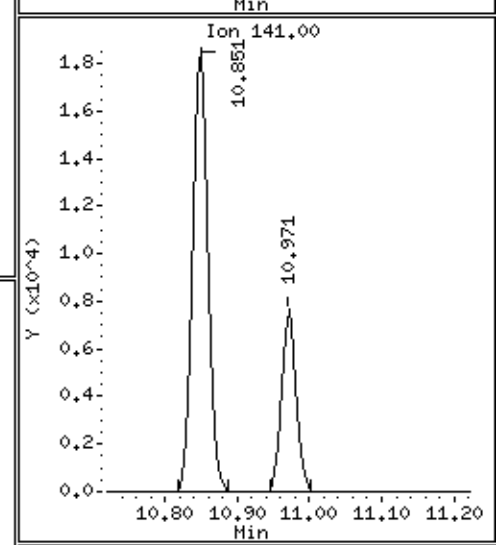
150 1-Methylnaphthalene

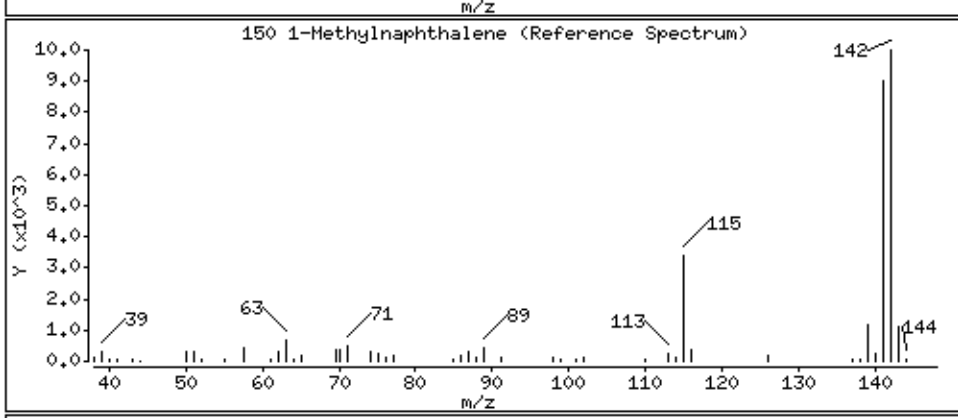
Concentration: 946 ppb

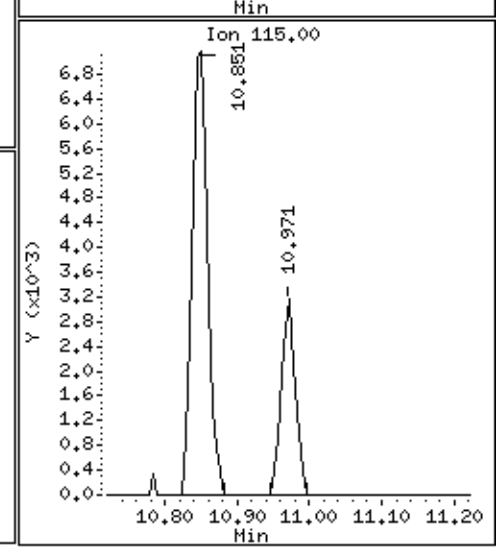


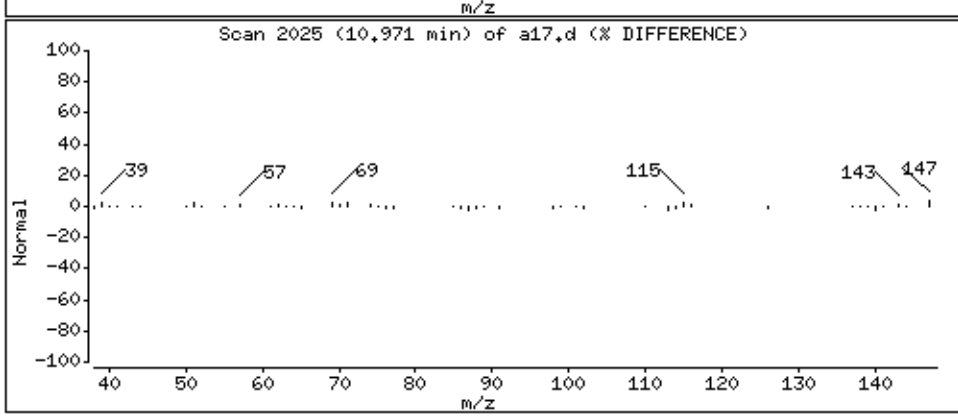












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b/a17.d
Injection Date: 18-JAN-2017 22:41
Instrument: 50mv5a.i
Lab Sample ID: 50163047005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

GP-3 14-16'

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 23:19
Lab Sample ID: 50163047006
Date Analyzed: 01/18/2017 23:19
Lab File ID: A011817.B\A18.D
Initial wt/vol: 6.274 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 16.4%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

GP-3 14-16'

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 23:19
Lab Sample ID: 50163047006
Date Analyzed: 01/18/2017 23:19
Lab File ID: A011817.B\A18.D
Initial wt/vol: 6.274 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 16.4%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a18.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a18.d
Lab Smp Id: 50163047006 Client Smp ID: GP-3 14-16'
Inj Date : 18-JAN-2017 23:19
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047006
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 37 Dibromofluoromethane (S)	113	3.622	3.617	(0.815)	30775	49.5887	49.6	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	123887	50.0000		
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	118704	52.3802	52.4	
58 Toluene	91	6.326	6.321	(0.841)	1150	0.42496	0.425	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	93394	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	50563	53.1891	53.2	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	57704	50.0000		

Review Codes Legend

:

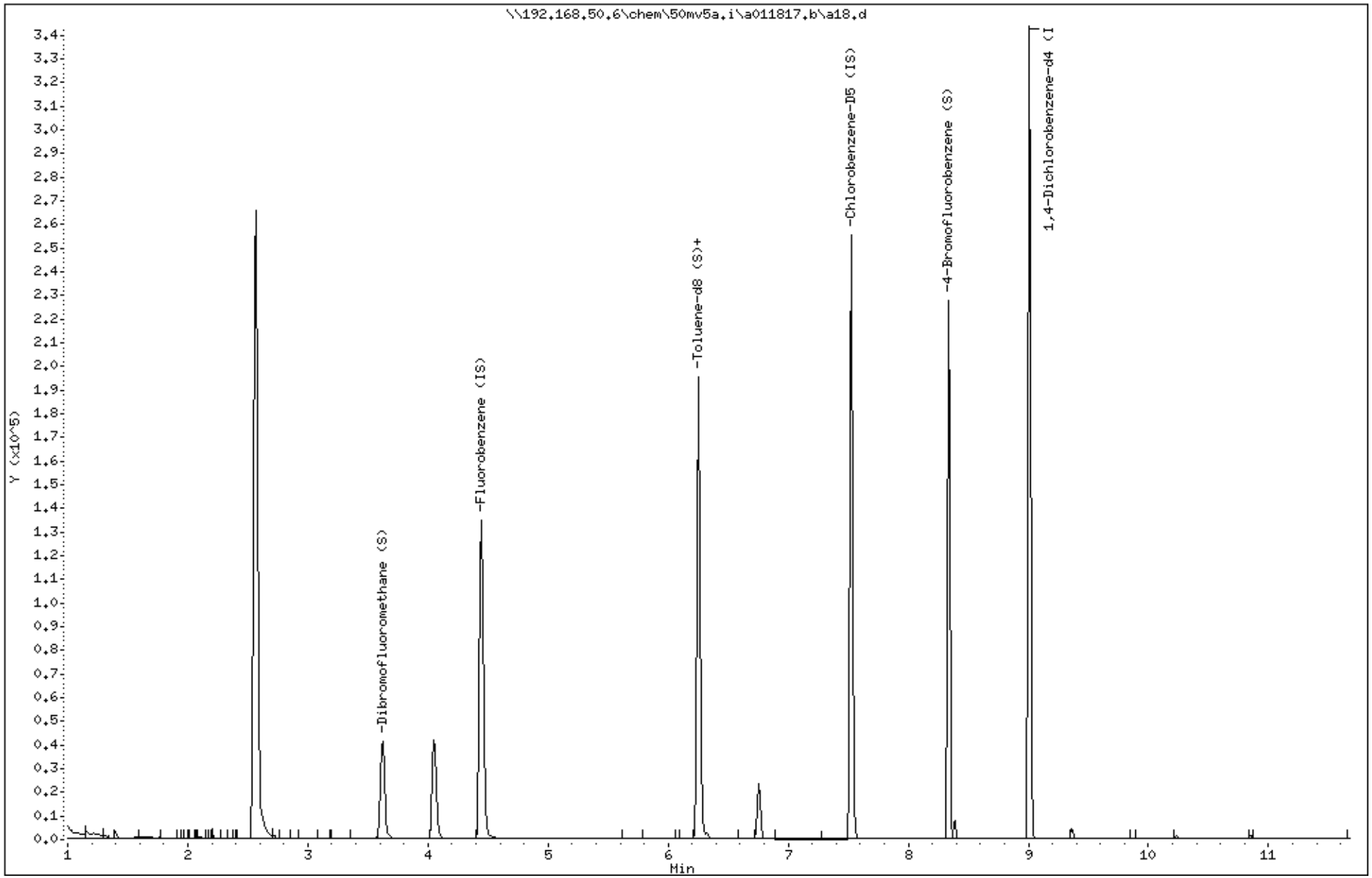
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a18.d
Date : 18-JAN-2017 23:19
Client ID: GP-3 14-16'
Sample Info: 50163047006

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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Date : 18-JAN-2017 23:19

Client ID: GP-3 14-16'

Instrument: 50mv5a.i

Sample Info: 50163047006

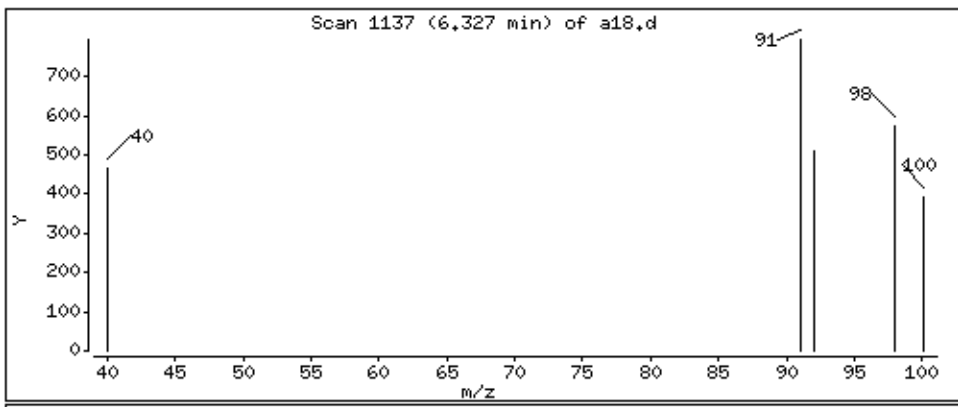
Operator: TMW

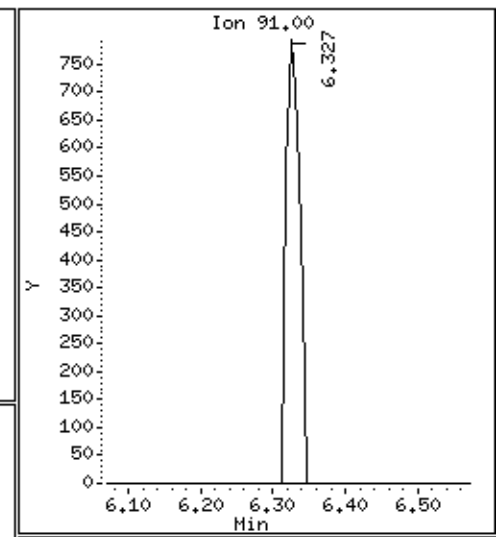
Column phase: DB-624

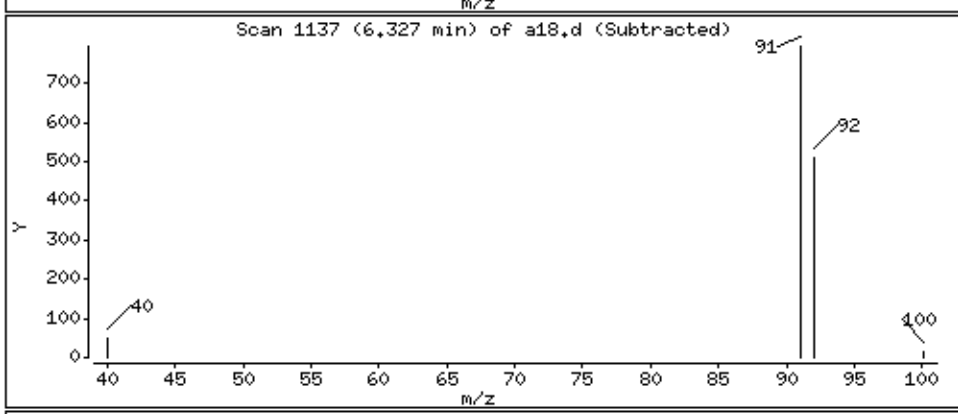
Column diameter: 0.18

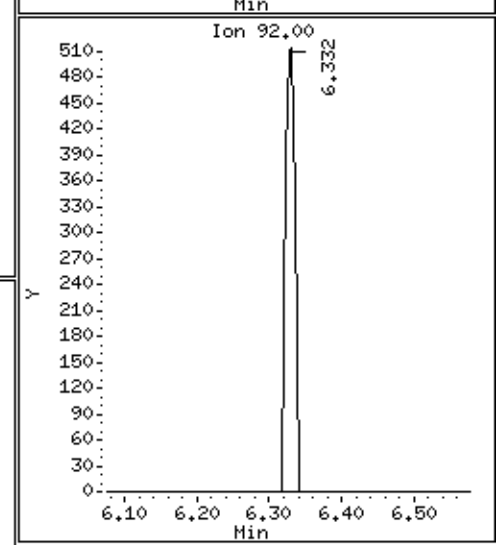
58 Toluene

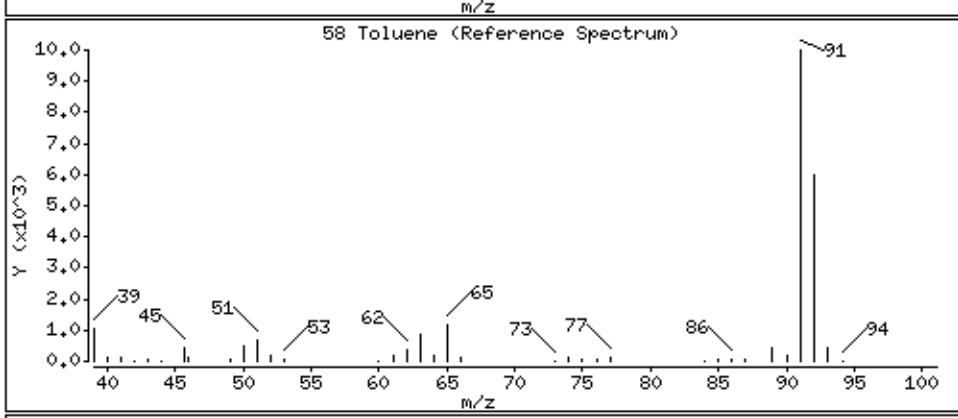
Concentration: 0.425 ppb

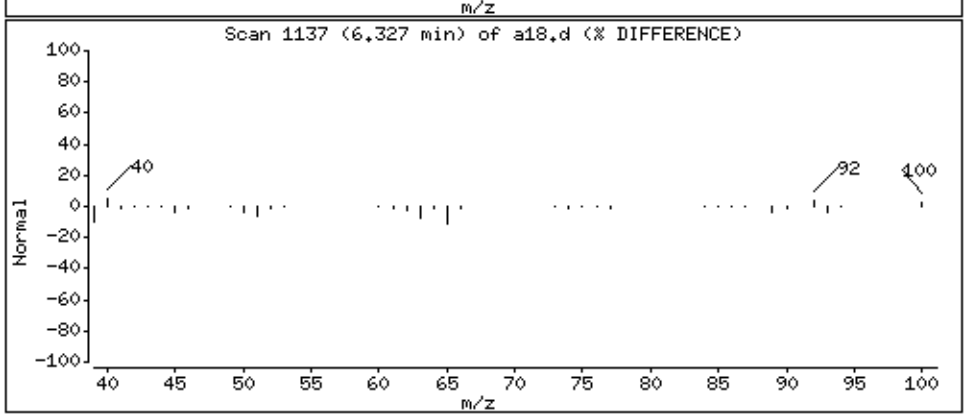












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Injection Date: 18-JAN-2017 23:19
Instrument: 50mv5a.i
Lab Sample ID: 50163047006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-1

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 23:56
Lab Sample ID: 50163047007
Date Analyzed: 01/18/2017 23:56
Lab File ID: A011817.B\A19.D
Initial wt/vol: 6.157 g Final wt/vol: 5 mL Dilution: 100
Instrument: 50MV5A Percent Moisture: 20.0%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	1.0	
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

FD-1

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 23:56
Lab Sample ID: 50163047007
Date Analyzed: 01/18/2017 23:56
Lab File ID: A011817.B\A19.D
Initial wt/vol: 6.157 g Final wt/vol: 5 mL Dilution: 100
Instrument: 50MV5A Percent Moisture: 20.0%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	6.1	
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	0.53	
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	1.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	2.5	
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d
Lab Smp Id: 50163047007 Client Smp ID: FD-1
Inj Date : 18-JAN-2017 23:56
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 50163047007x100
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 70
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.419	2.424	(0.544)	72163	59.9248	5990	
$ 37 Dibromofluoromethane (S)	113	3.622	3.617	(0.815)	32787	49.1679	49.2	
151 n-butyl chloride	56	3.769	3.774	(0.848)	156582	100.796	10100	
44 2,2,4-Trimethylpentane	57	4.224	4.229	(0.951)	707045	234.464	23400	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	133116	50.0000		
48 Methylcyclohexane	55	5.144	5.144	(1.158)	48218	41.1293	4110	
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	133448	52.2296	52.2	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	105297	50.0000		
70 Ethylbenzene	106	7.623	7.623	(1.013)	4703	4.06096	406	
75 Isopropylbenzene	105	8.219	8.219	(1.092)	20599	5.25957	526	
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	57106	53.2812	53.3	
81 n-Propylbenzene	91	8.476	8.476	(0.941)	108109	24.2858	2430	
87 sec-Butylbenzene	105	8.894	8.889	(0.987)	12165	2.75386	275	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	60181	50.0000		
92 n-Butylbenzene	91	9.198	9.192	(1.021)	34018	9.88126	988	
97 Naphthalene	128	10.191	10.191	(1.131)	11346	3.63979	364	
99 2,methyl-naphthalene	142	10.850	10.845	(1.204)	26681	18.8401	1880	
150 1-Methylnaphthalene	142	10.971	10.971	(1.218)	11013	8.64395	864	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d
Report Date: 19-Jan-2017 08:50

QC Flag Legend

Review Codes Legend

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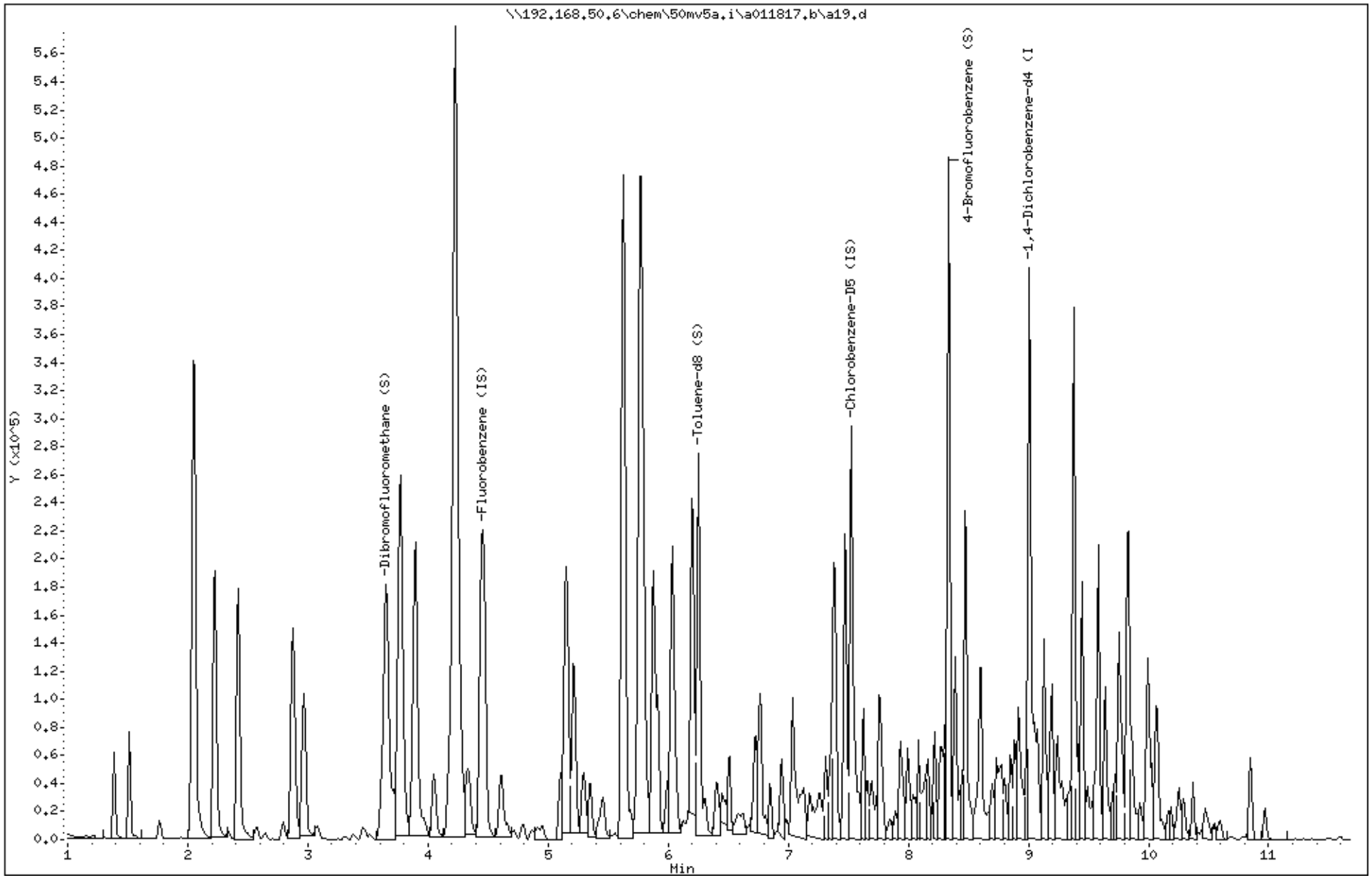
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d
Date : 18-JAN-2017 23:56
Client ID: FD-1
Sample Info: 50163047007x100

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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Date : 18-JAN-2017 23:56

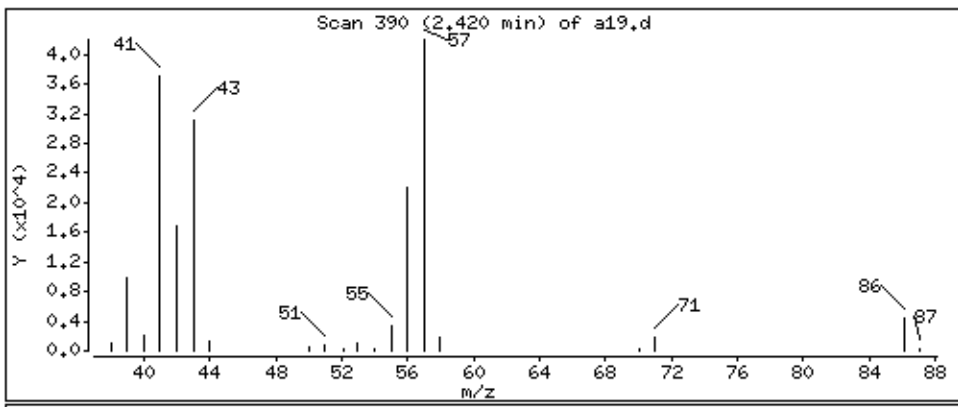
Client ID: FD-1 Instrument: 50mv5a.i

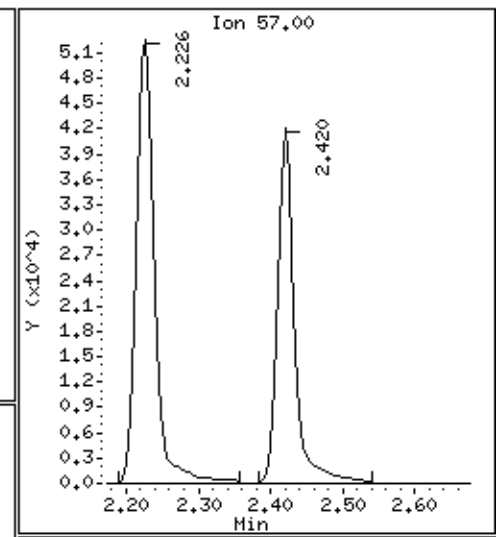
Sample Info: 50163047007x100

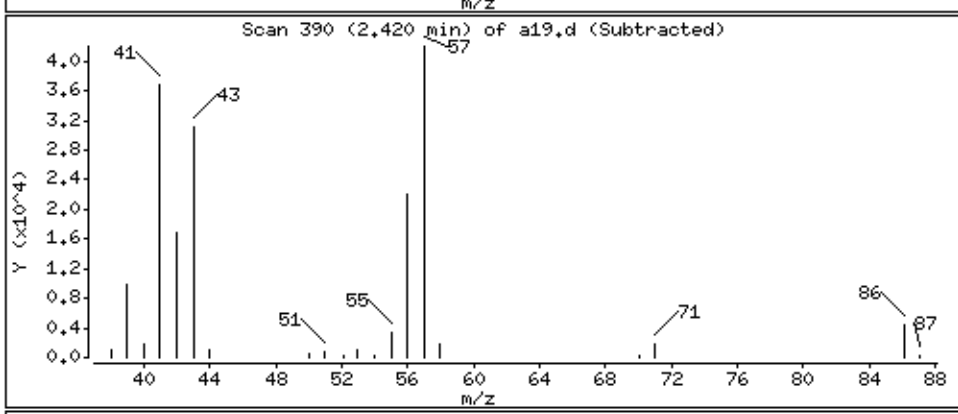
Operator: TMW

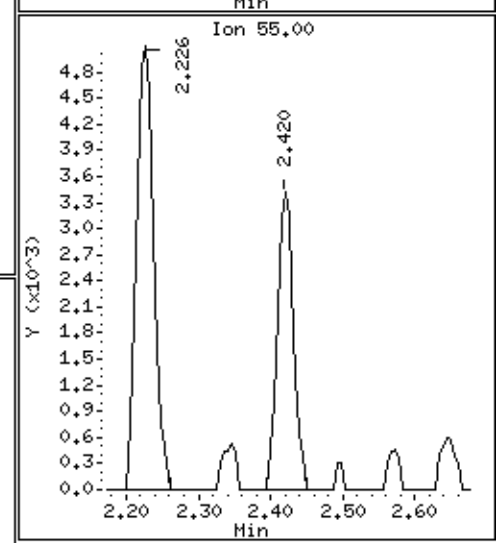
Column phase: DB-624 Column diameter: 0.18

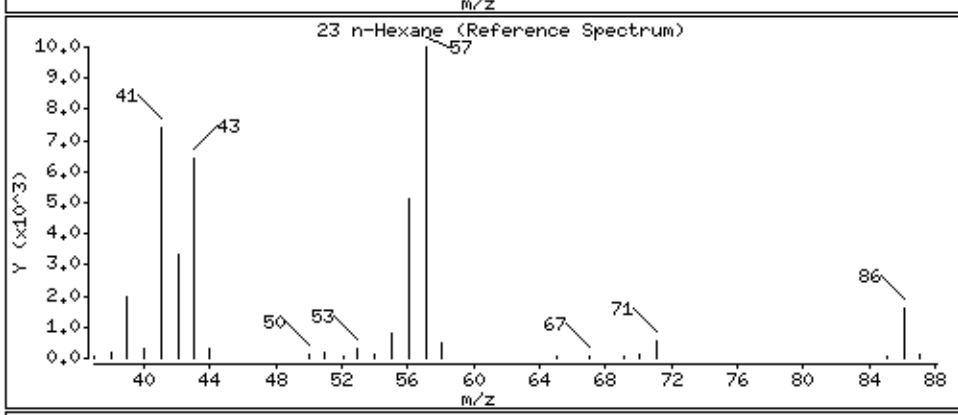
23 n-Hexane Concentration: 5990 ppb

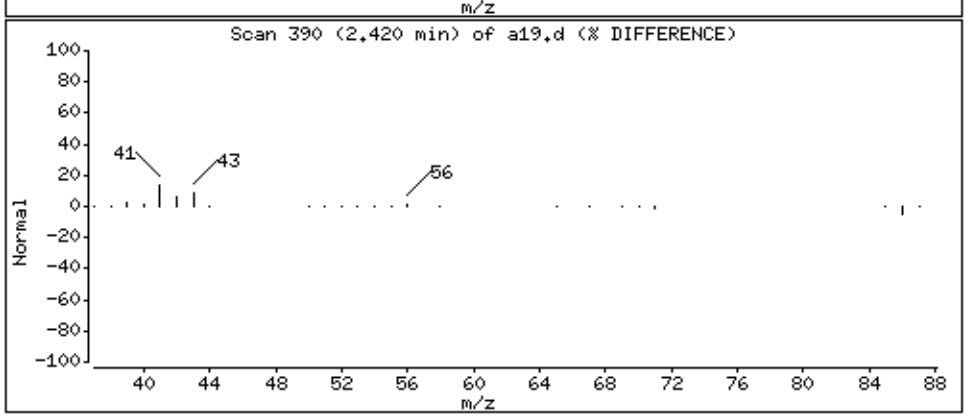












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Date : 18-JAN-2017 23:56

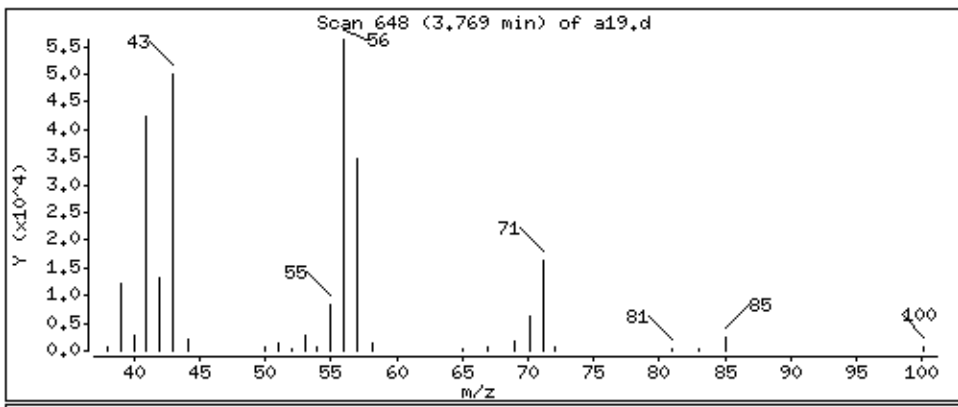
Client ID: FD-1 Instrument: 50mv5a.i

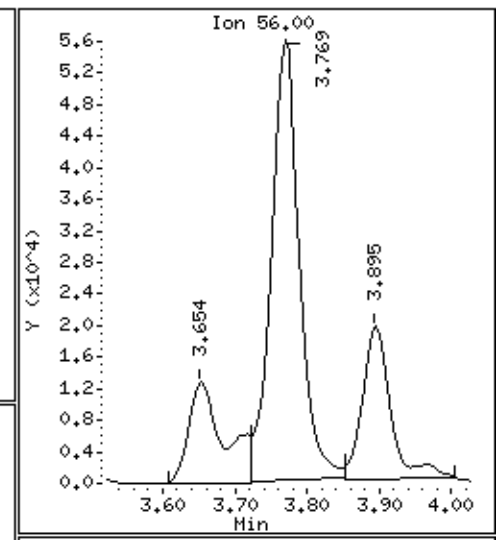
Sample Info: 50163047007x100

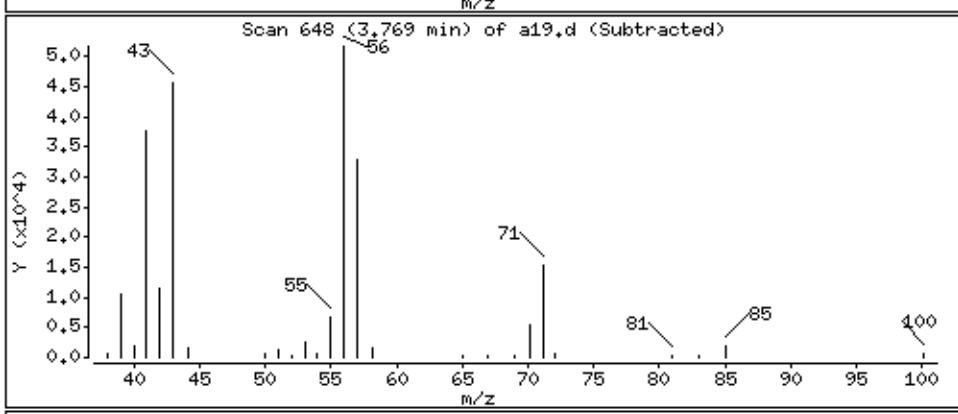
Operator: TMW

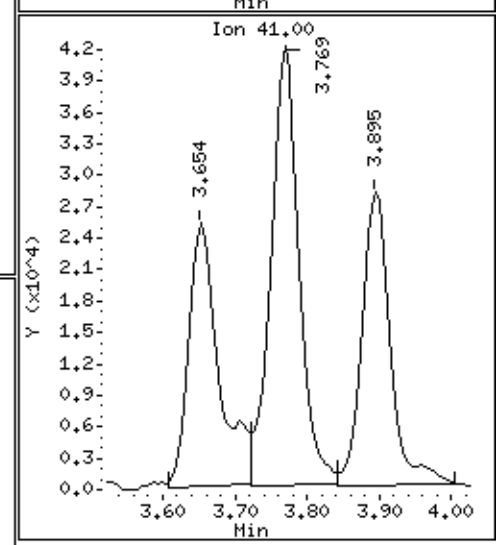
Column phase: DB-624 Column diameter: 0.18

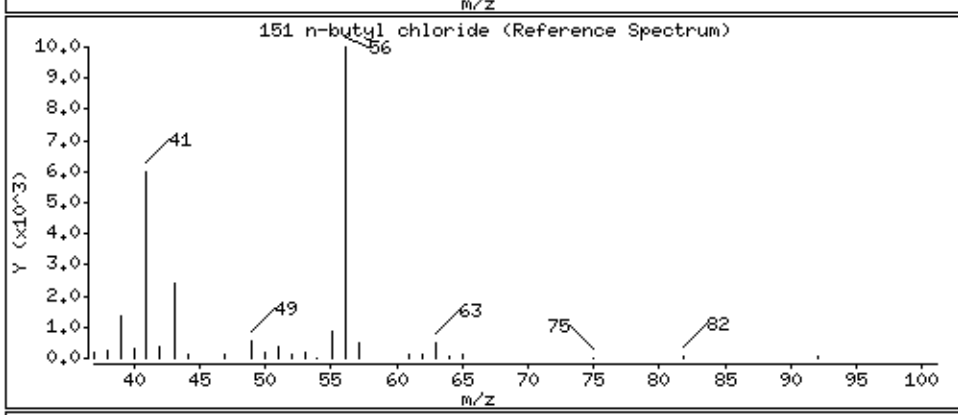
151 n-butyl chloride Concentration: 10100 ppb

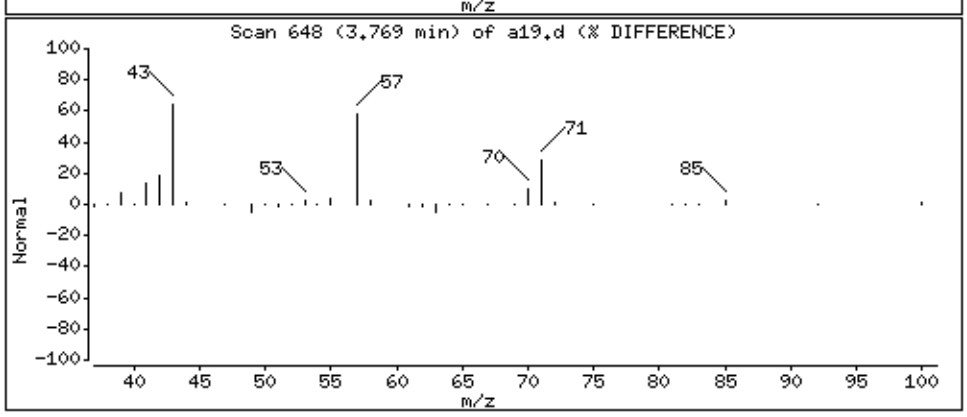












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d

Date : 18-JAN-2017 23:56

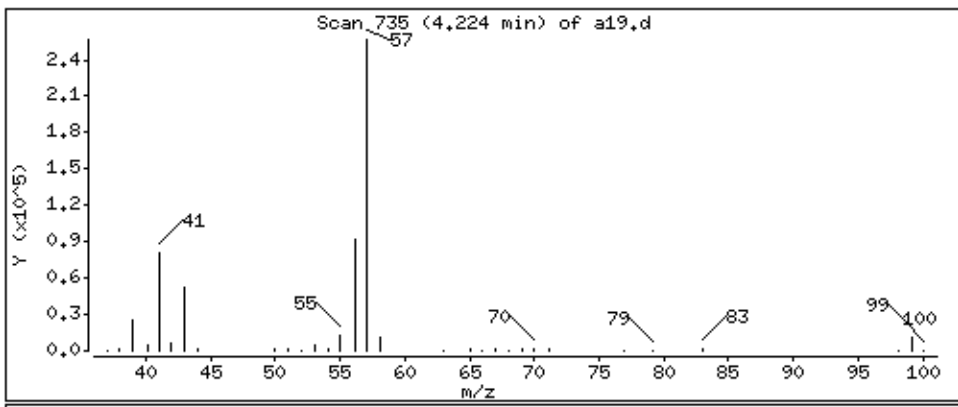
Client ID: FD-1 Instrument: 50mv5a.i

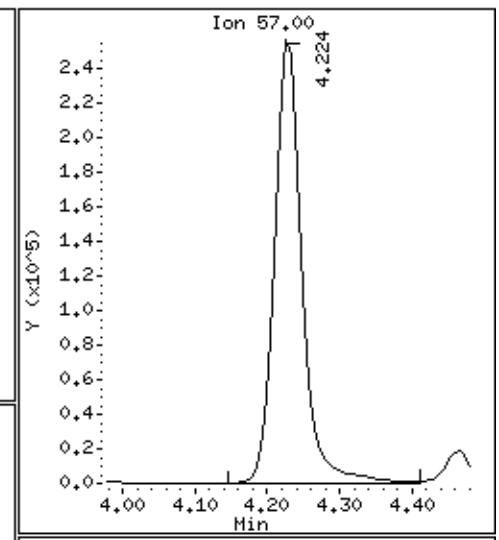
Sample Info: 50163047007x100

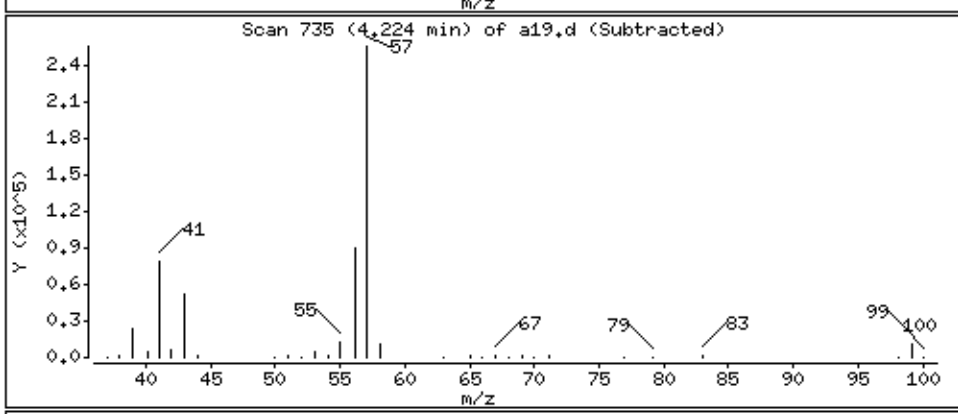
Operator: TMW

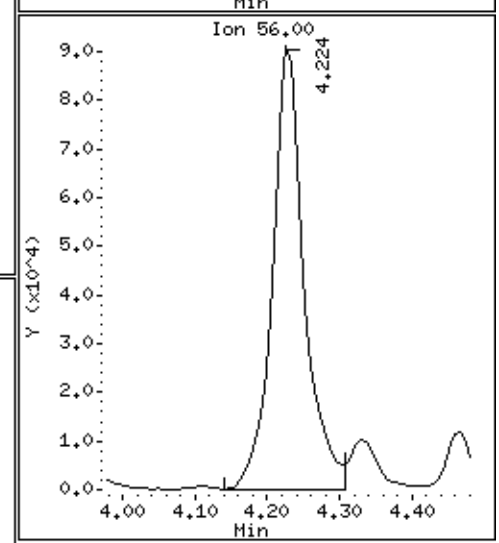
Column phase: DB-624 Column diameter: 0.18

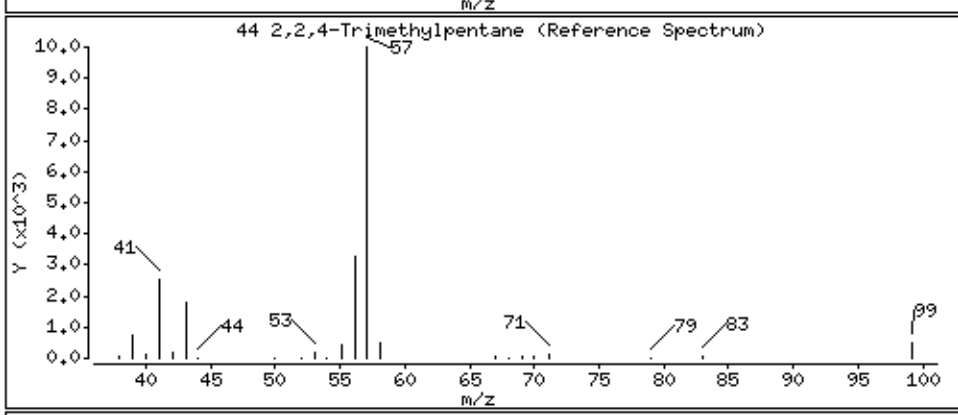
44 2,2,4-Trimethylpentane Concentration: 23400 ppb

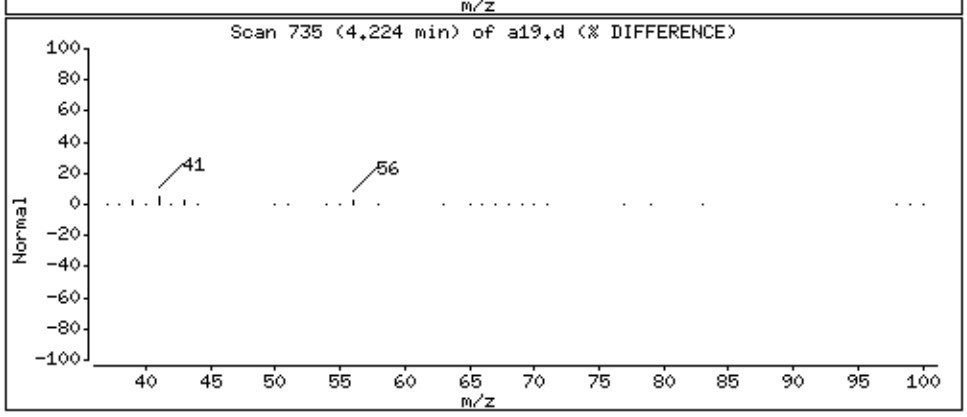












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d

Date : 18-JAN-2017 23:56

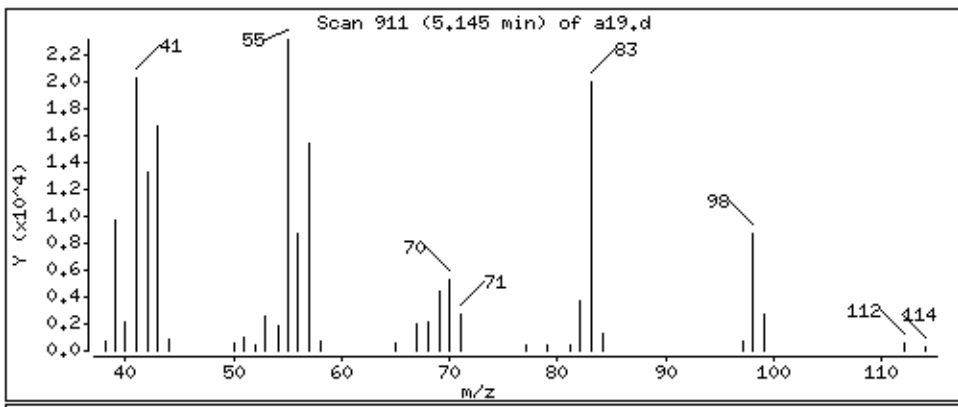
Client ID: FD-1 Instrument: 50mv5a.i

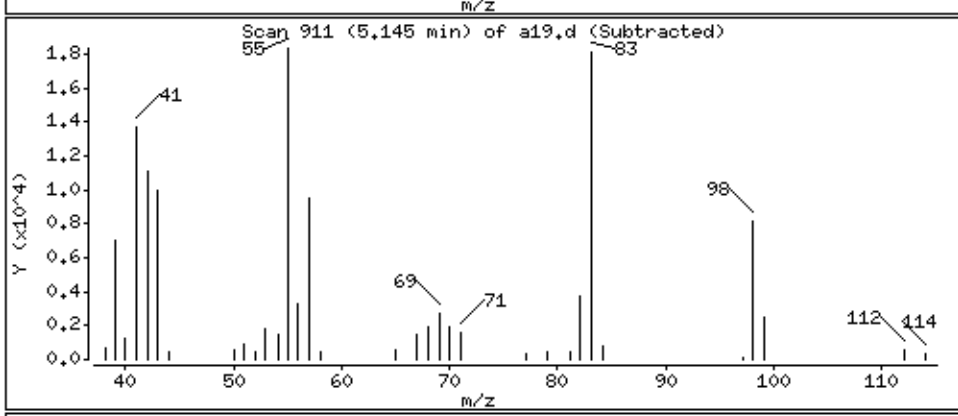
Sample Info: 50163047007x100

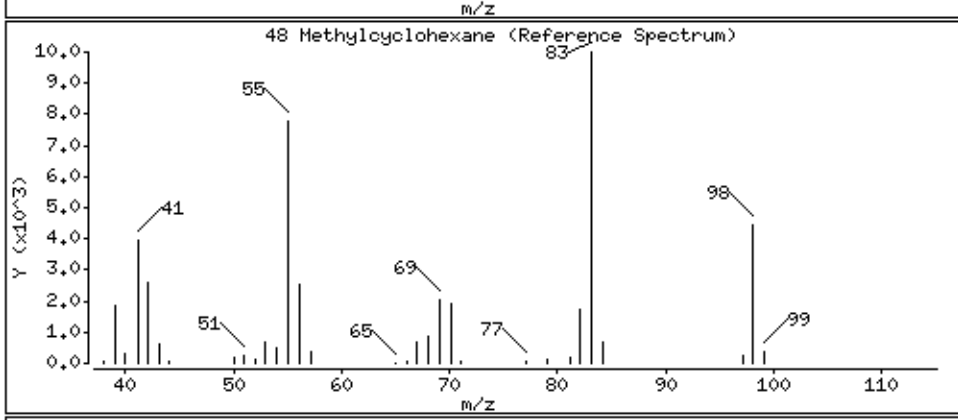
Operator: TMW

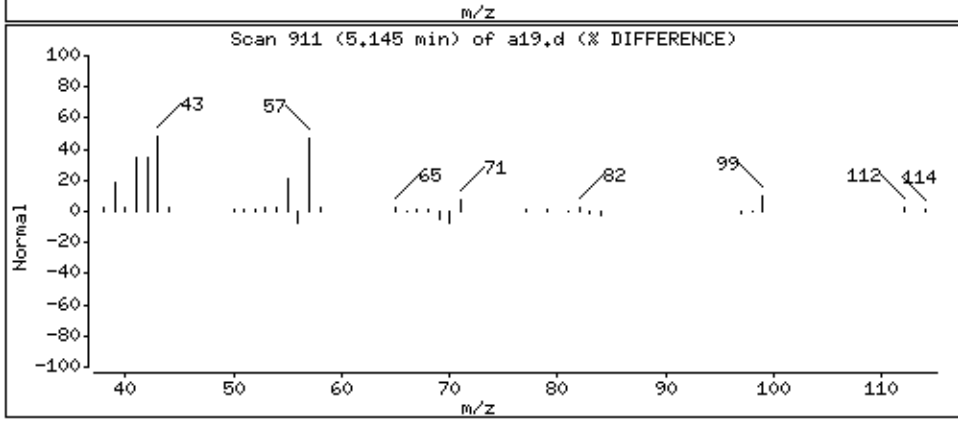
Column phase: DB-624 Column diameter: 0.18

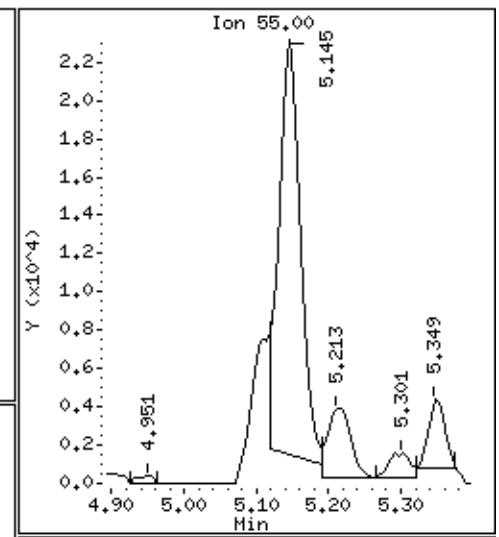
48 Methylcyclohexane Concentration: 4110 ppb

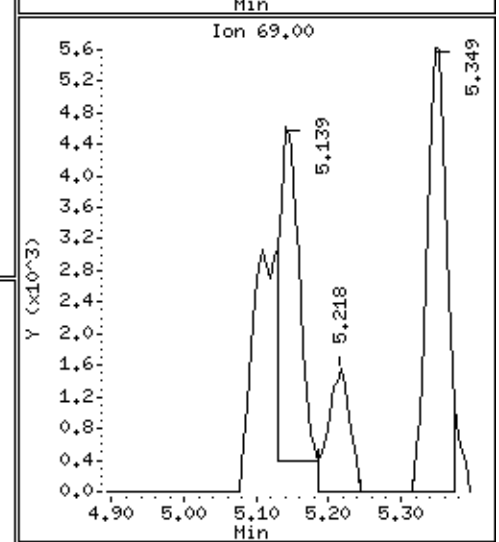


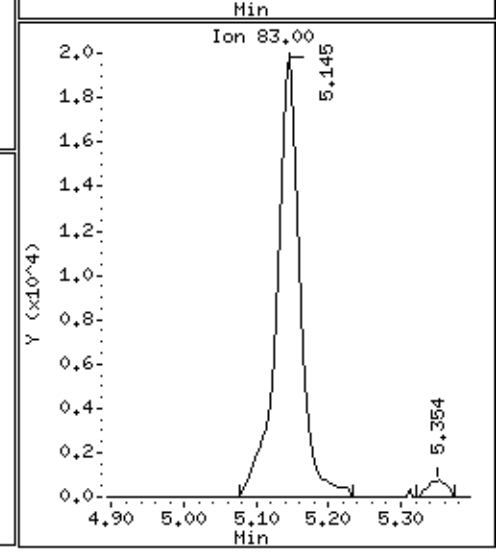












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d

Date : 18-JAN-2017 23:56

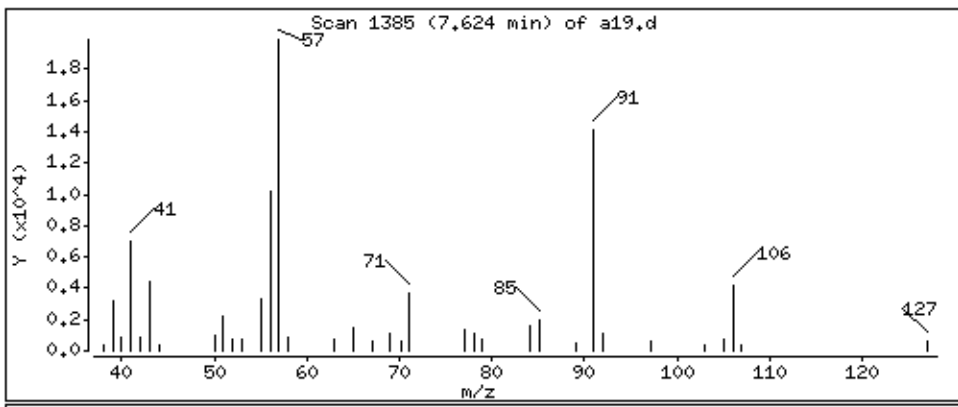
Client ID: FD-1 Instrument: 50mv5a.i

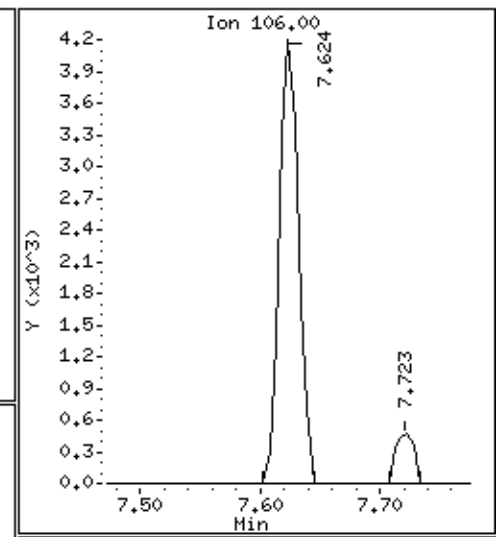
Sample Info: 50163047007x100

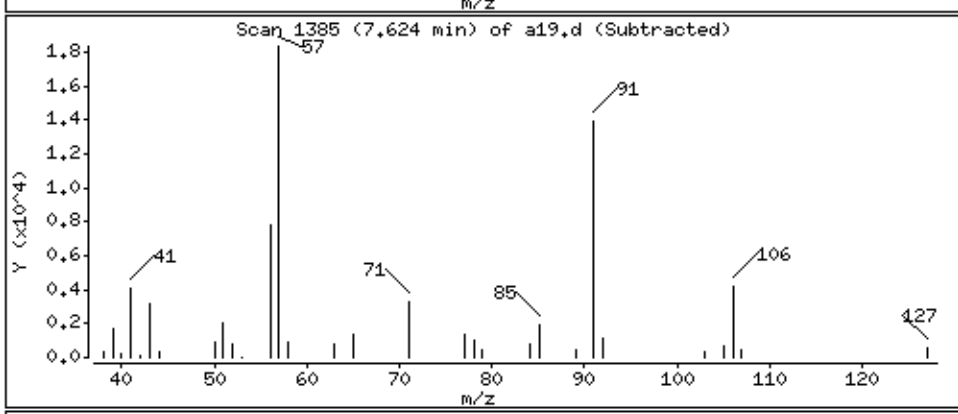
Operator: TMW

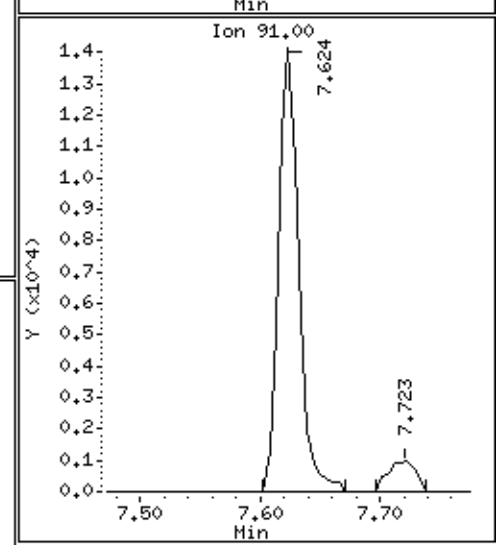
Column phase: DB-624 Column diameter: 0.18

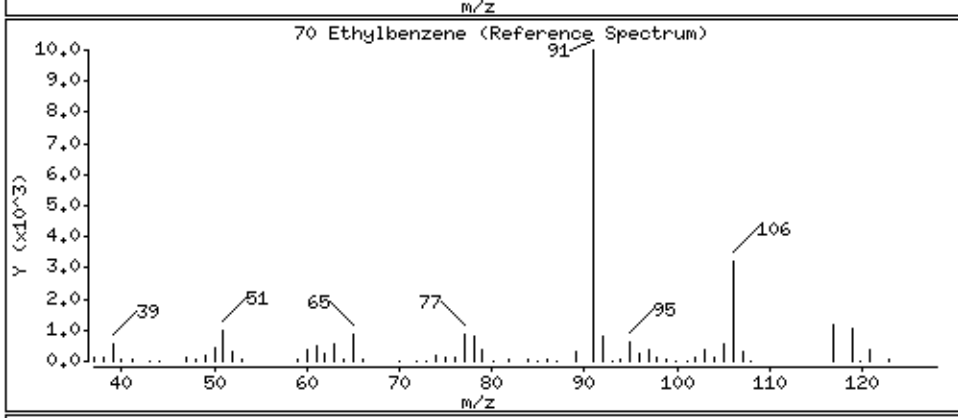
70 Ethylbenzene Concentration: 406 ppb

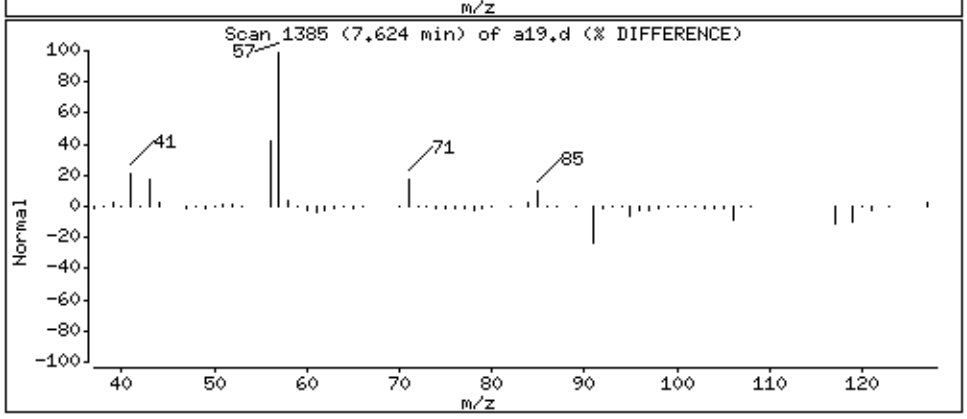












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Date : 18-JAN-2017 23:56

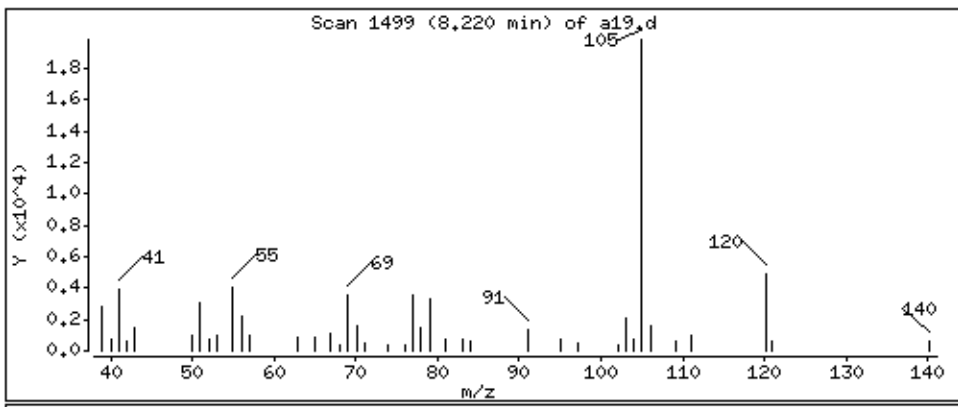
Client ID: FD-1 Instrument: 50mv5a.i

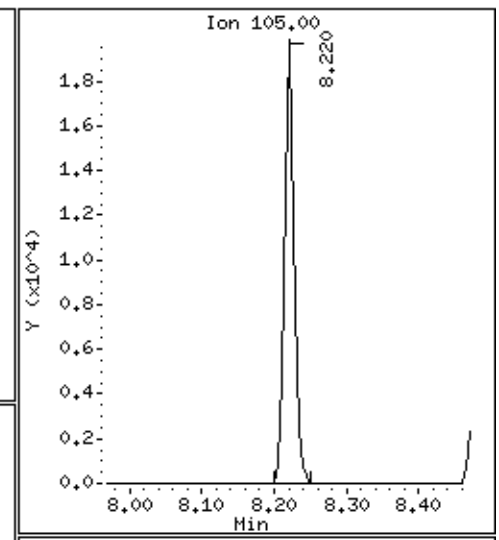
Sample Info: 50163047007x100

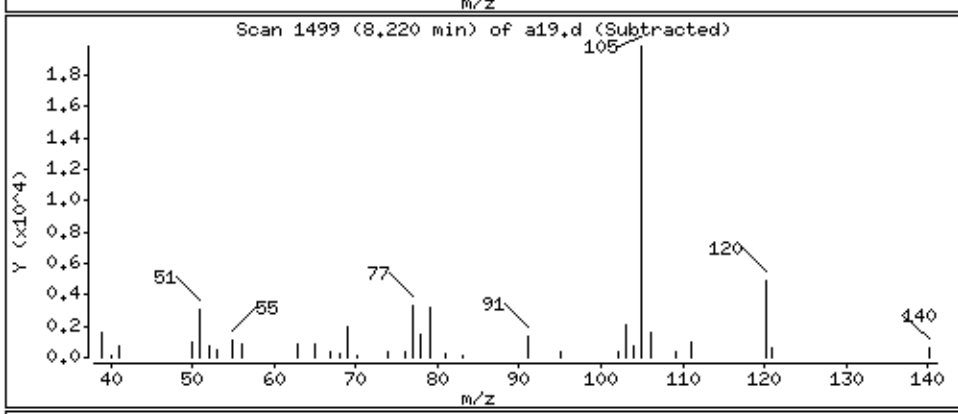
Operator: TMW

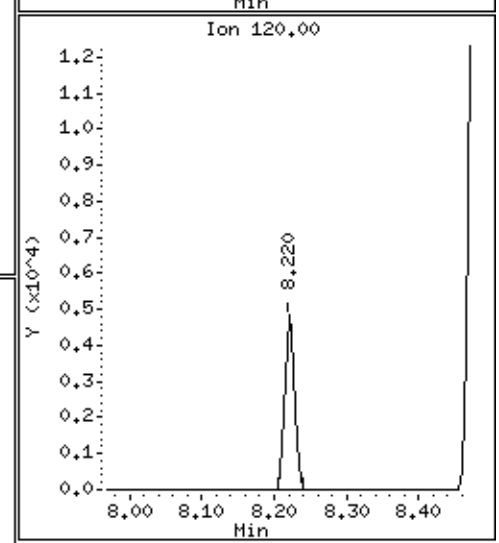
Column phase: DB-624 Column diameter: 0.18

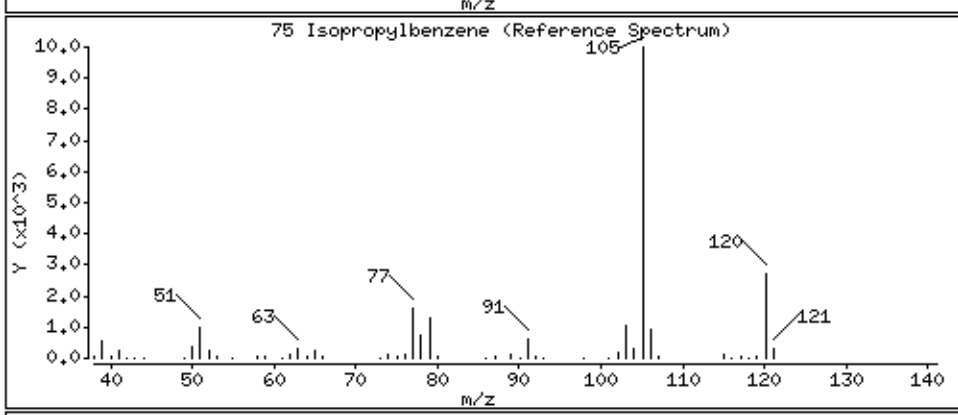
75 Isopropylbenzene Concentration: 526 ppb

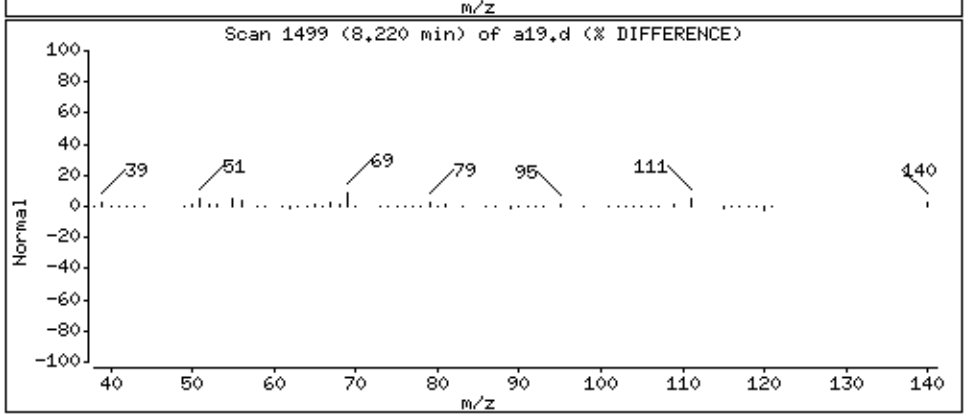












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Date : 18-JAN-2017 23:56

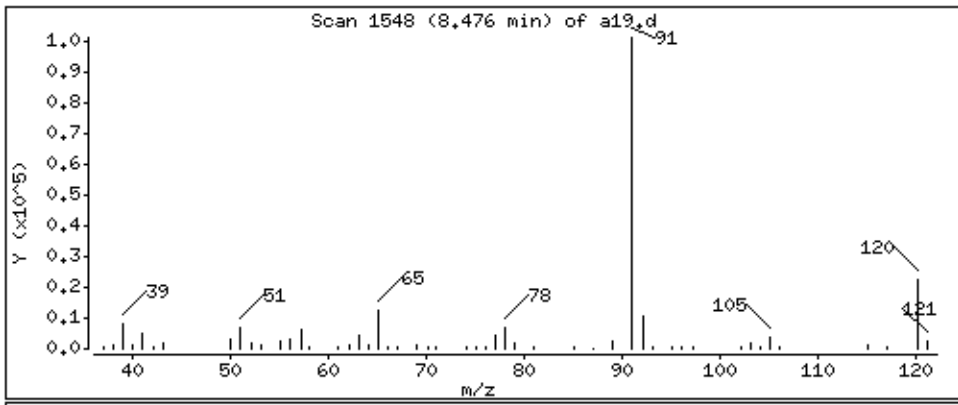
Client ID: FD-1 Instrument: 50mv5a.i

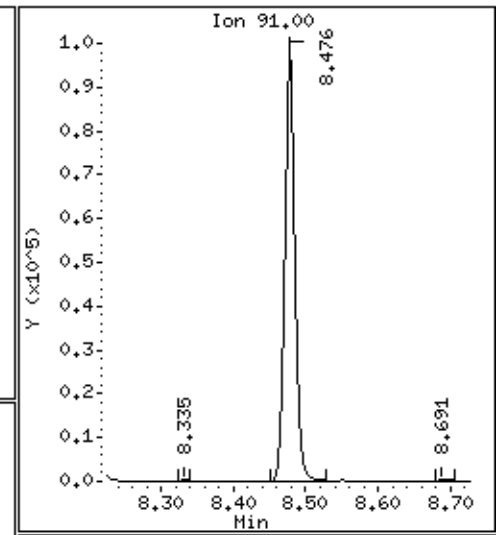
Sample Info: 50163047007x100

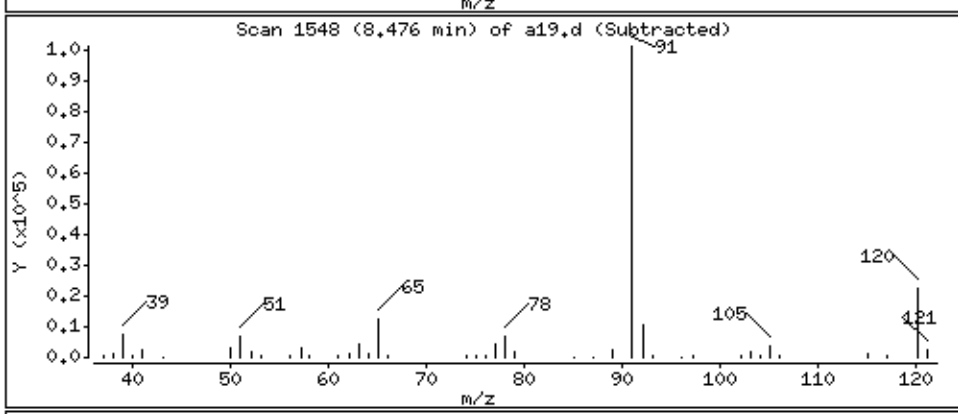
Operator: TMW

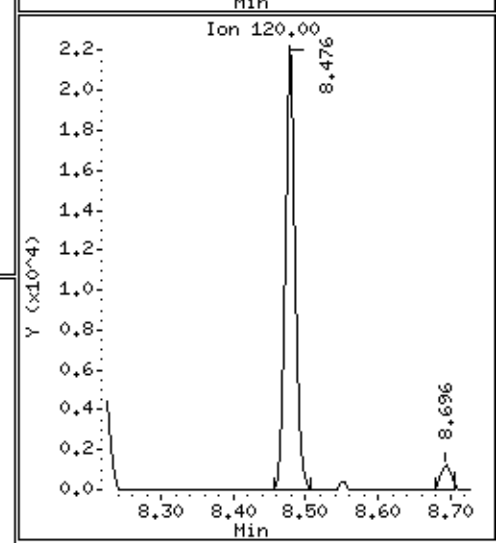
Column phase: DB-624 Column diameter: 0.18

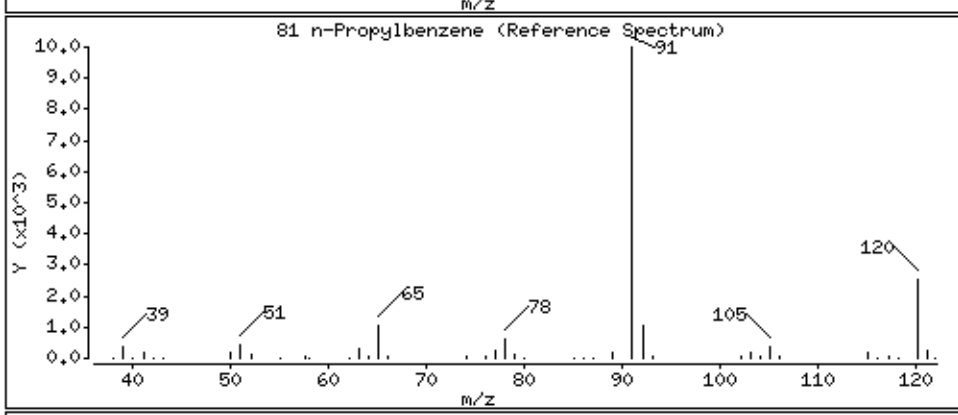
81 n-Propylbenzene Concentration: 2430 ppb

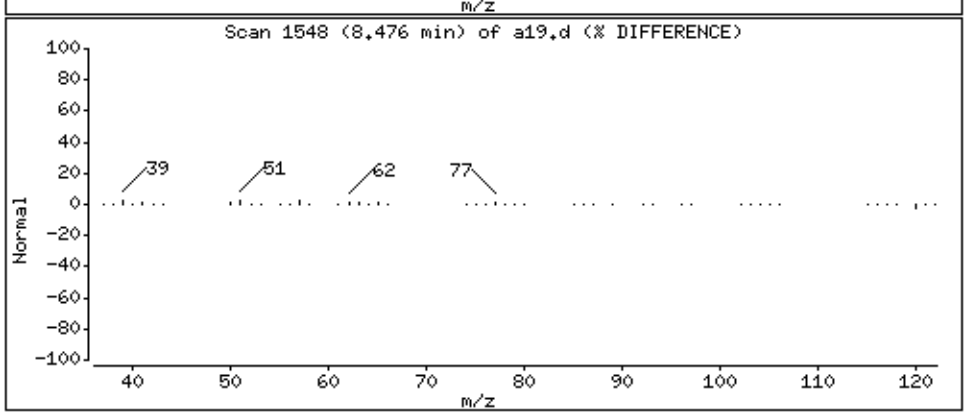












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Date : 18-JAN-2017 23:56

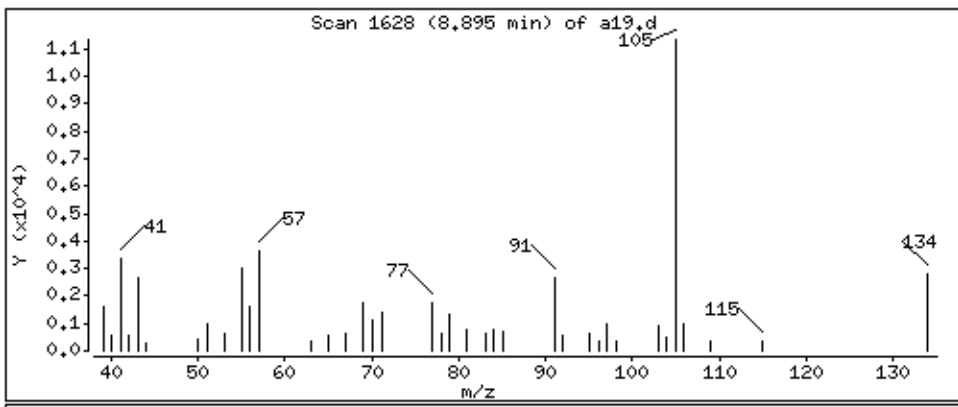
Client ID: FD-1 Instrument: 50mv5a.i

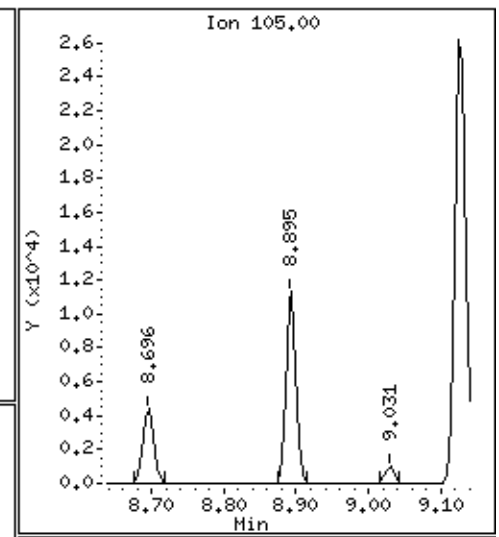
Sample Info: 50163047007x100

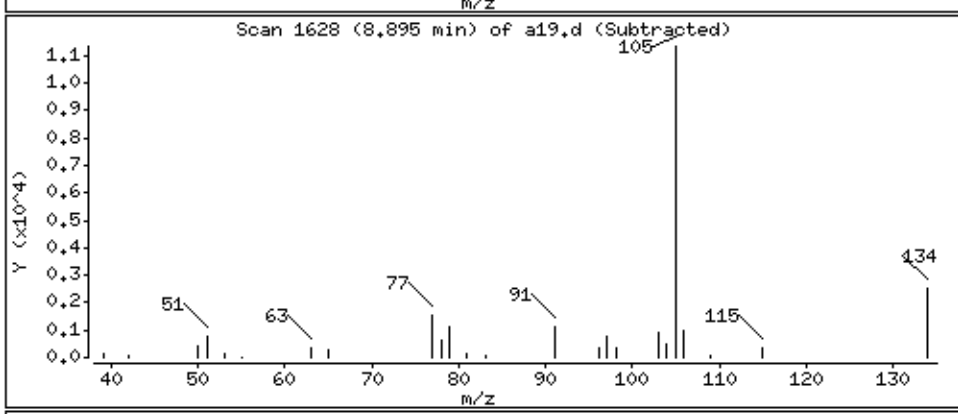
Operator: TMW

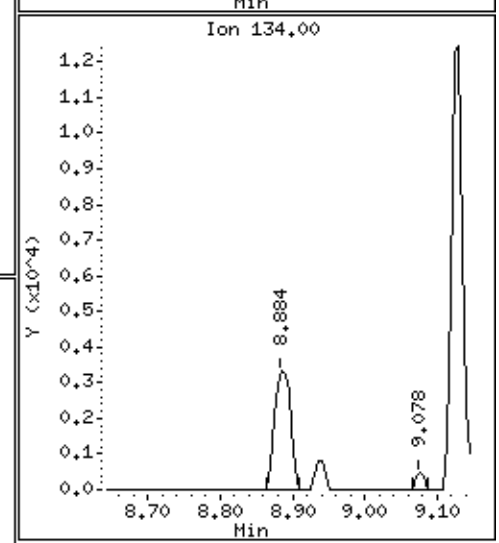
Column phase: DB-624 Column diameter: 0.18

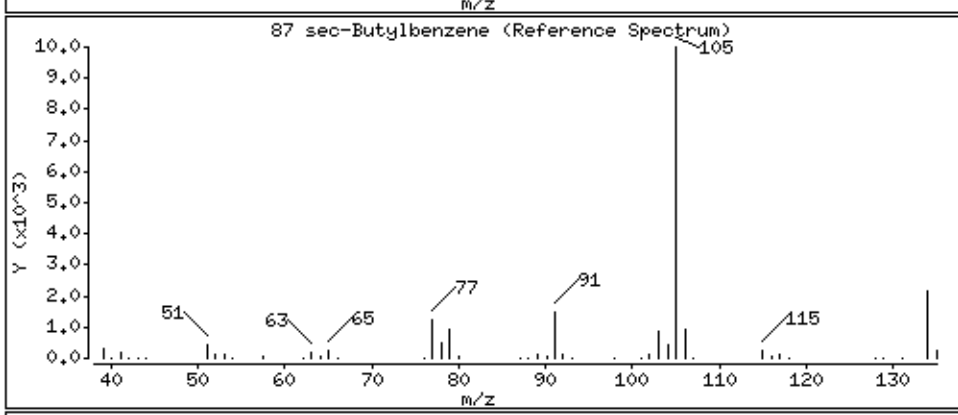
87 sec-Butylbenzene Concentration: 275 ppb

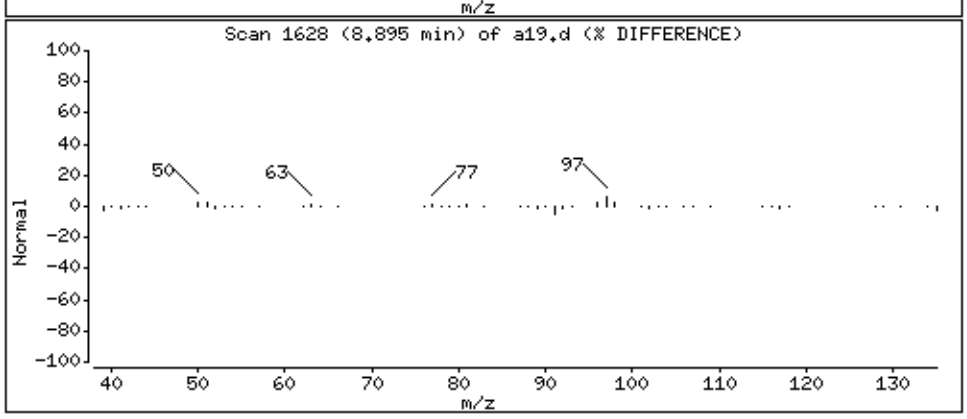












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Date : 18-JAN-2017 23:56

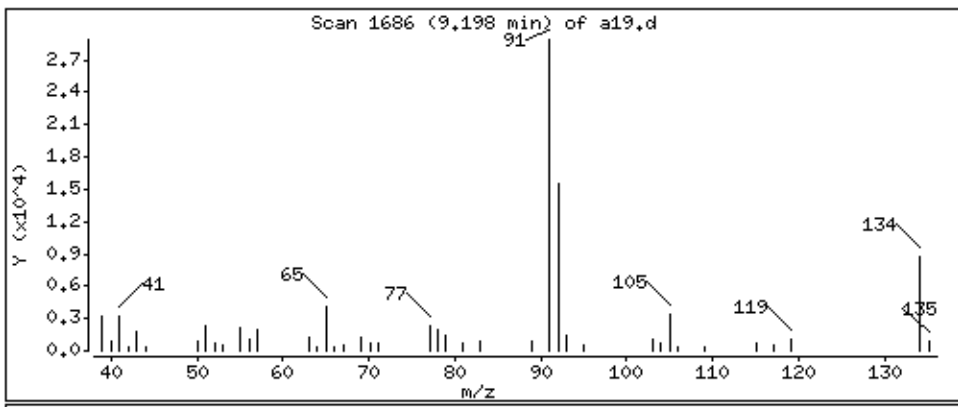
Client ID: FD-1 Instrument: 50mv5a.i

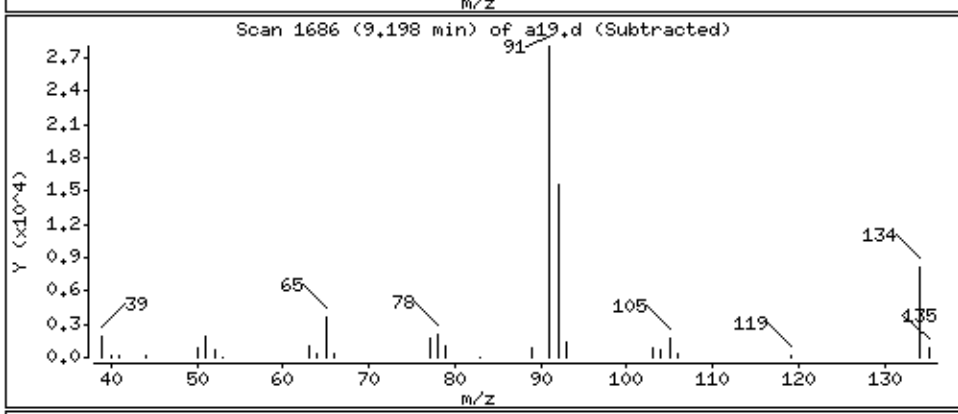
Sample Info: 50163047007x100

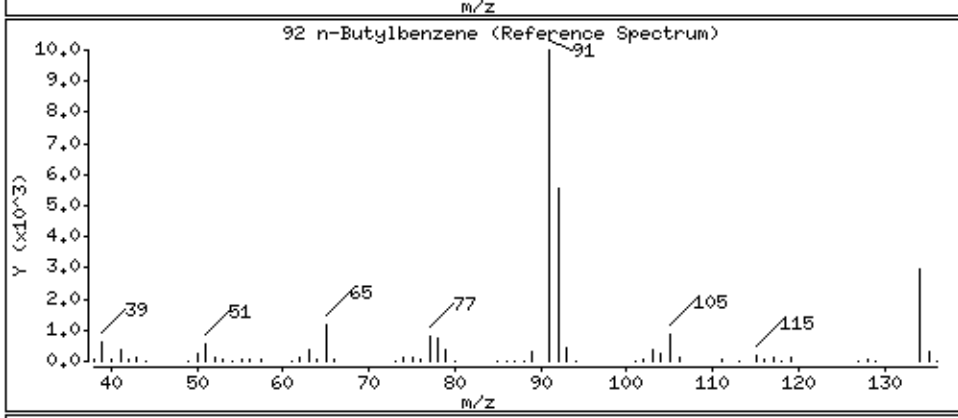
Operator: TMW

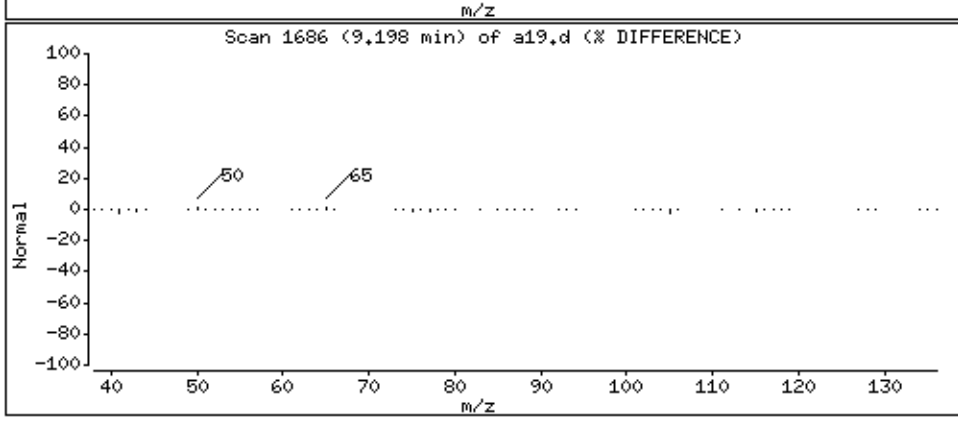
Column phase: DB-624 Column diameter: 0.18

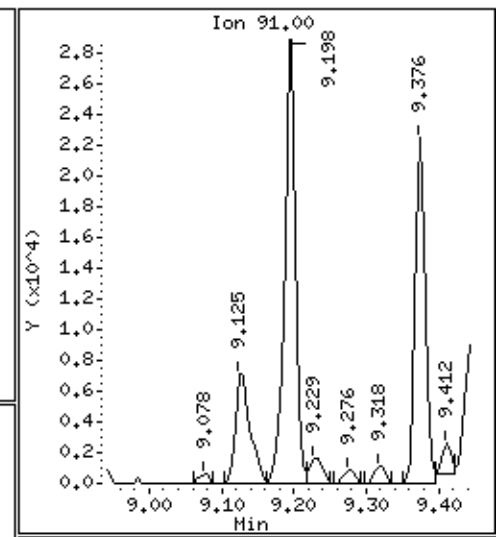
92 n-Butylbenzene Concentration: 988 ppb

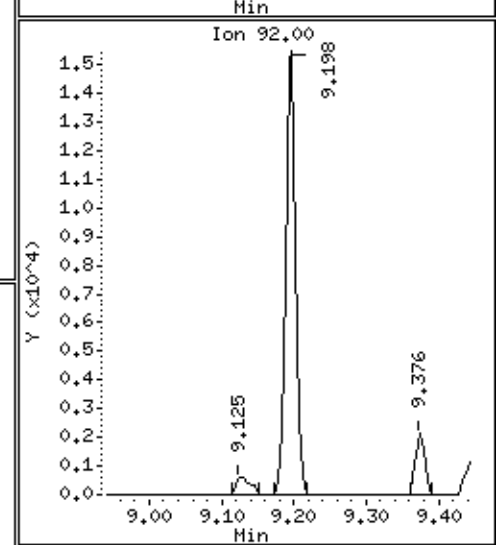


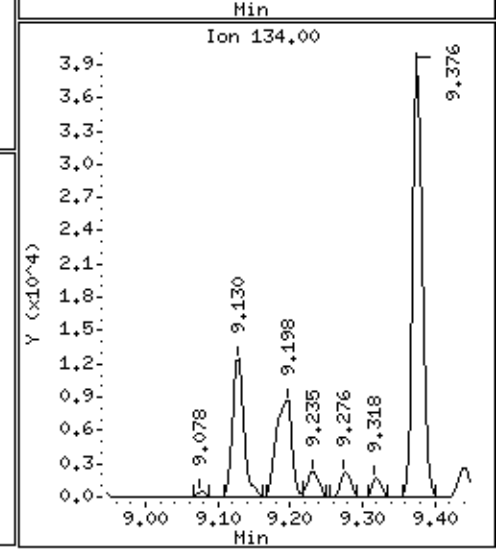












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Date : 18-JAN-2017 23:56

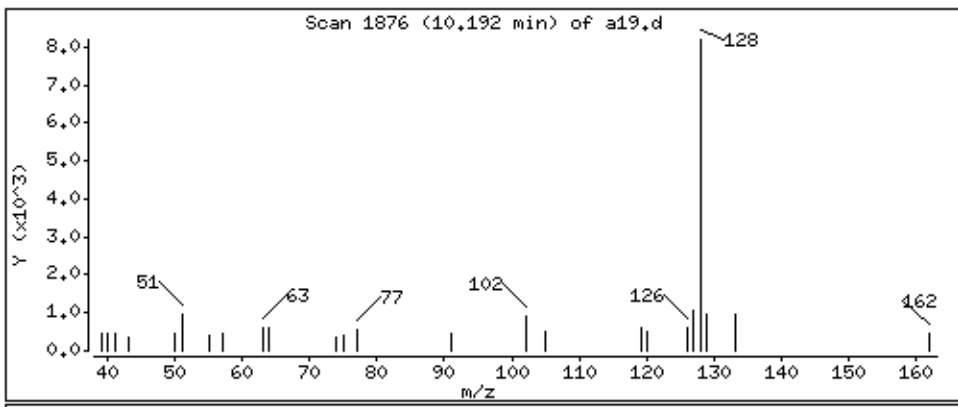
Client ID: FD-1 Instrument: 50mv5a.i

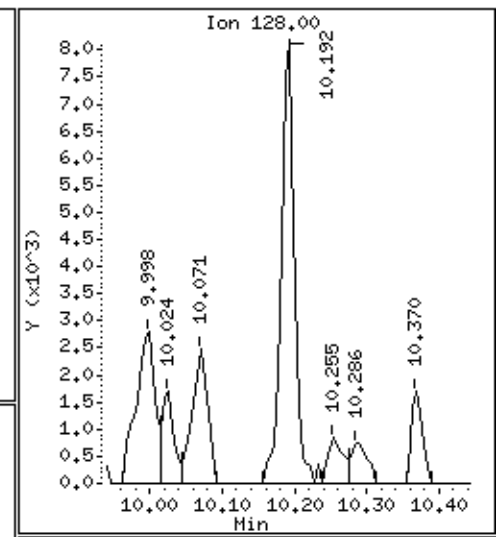
Sample Info: 50163047007x100

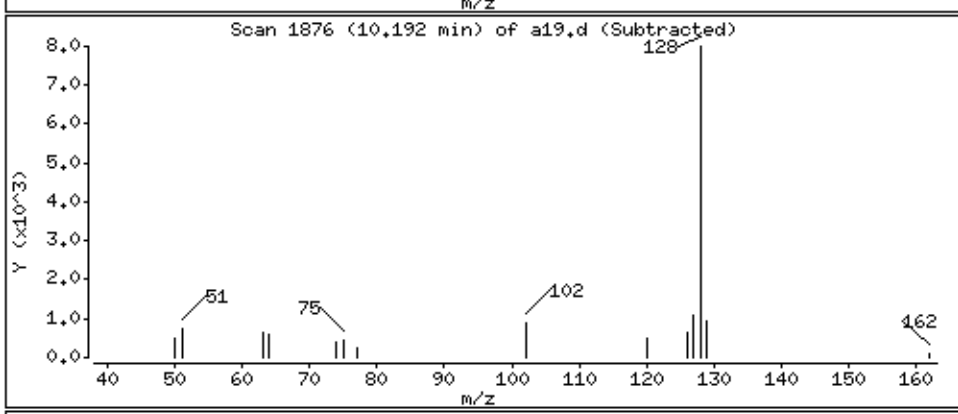
Operator: TMW

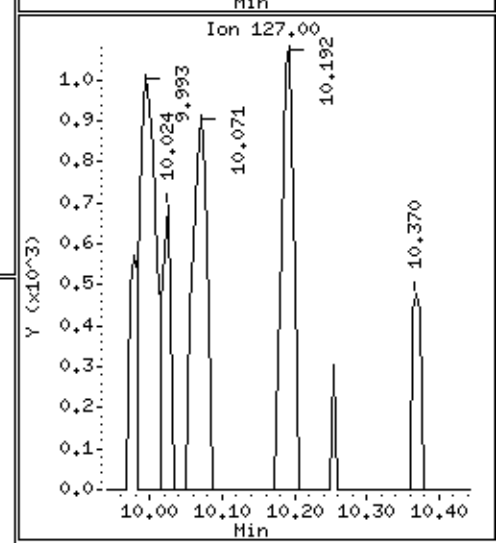
Column phase: DB-624 Column diameter: 0.18

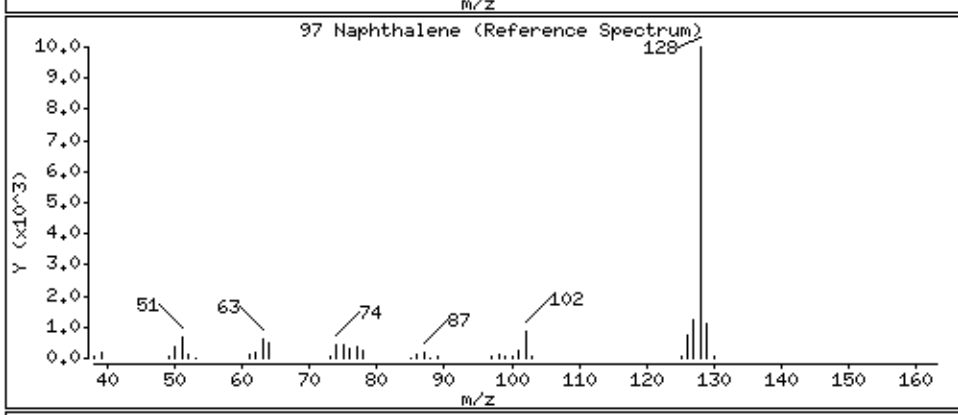
97 Naphthalene Concentration: 364 ppb

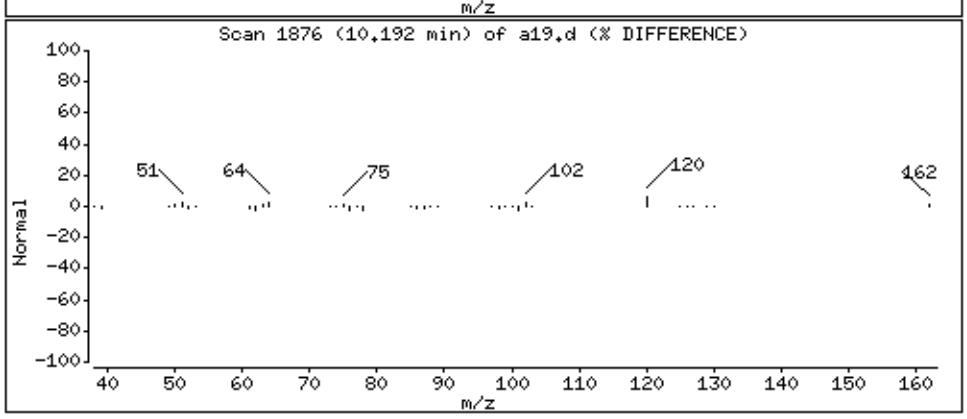












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Date : 18-JAN-2017 23:56

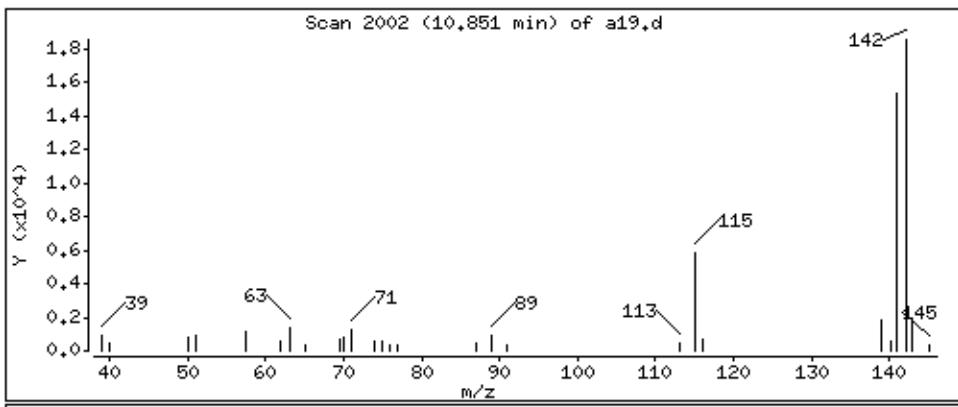
Client ID: FD-1 Instrument: 50mv5a.i

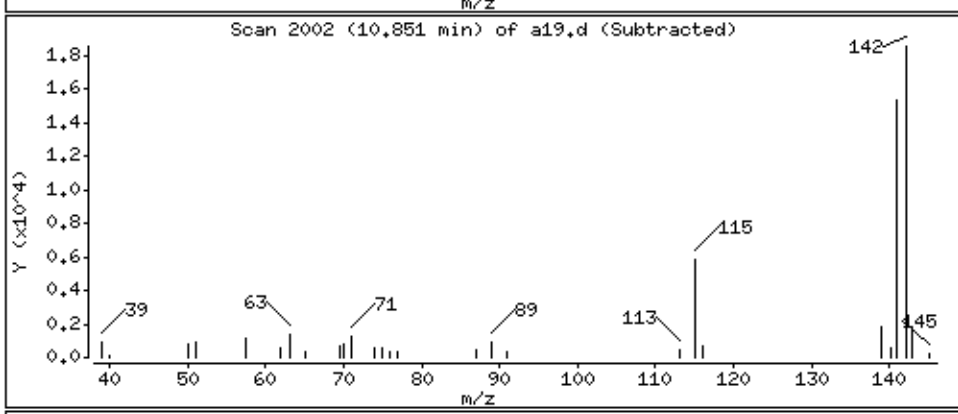
Sample Info: 50163047007x100

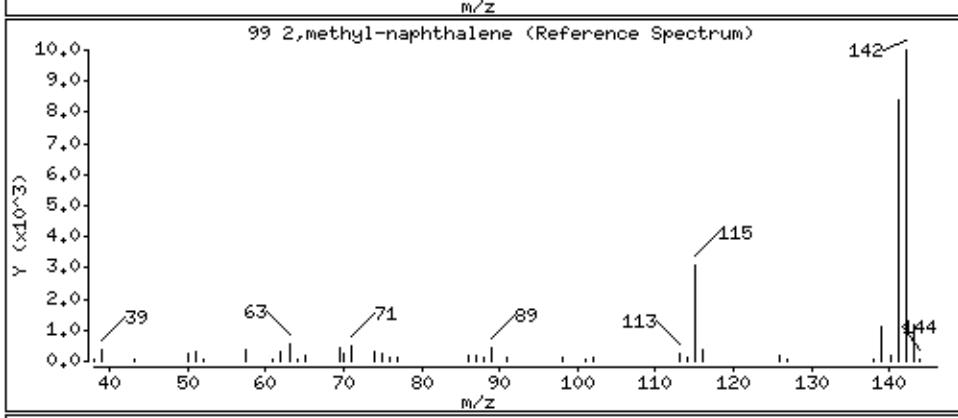
Operator: TMW

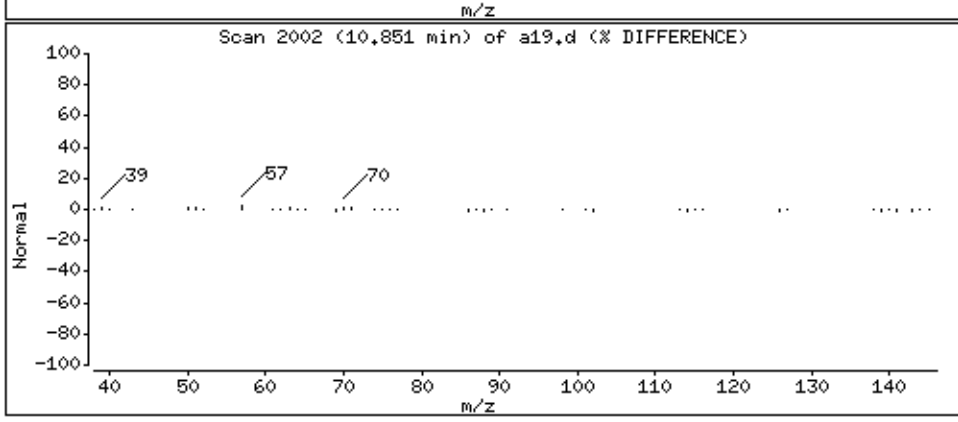
Column phase: DB-624 Column diameter: 0.18

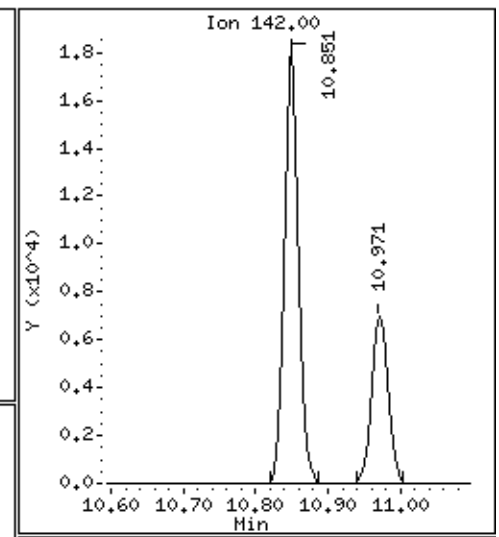
99 2,methyl-naphthalene Concentration: 1880 ppb

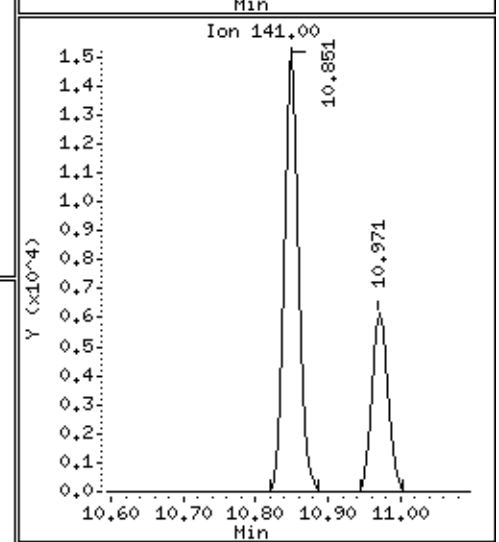


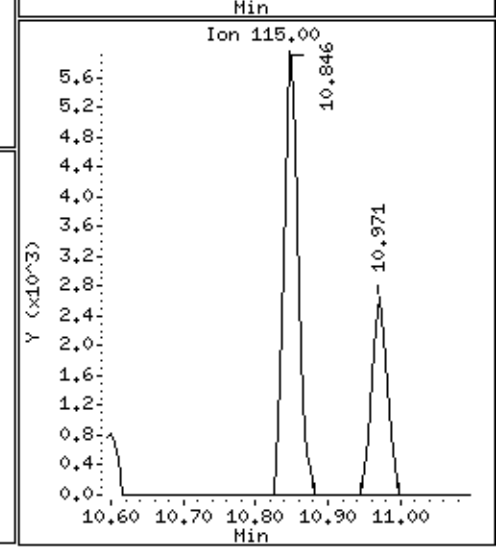












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a19.d

Date : 18-JAN-2017 23:56

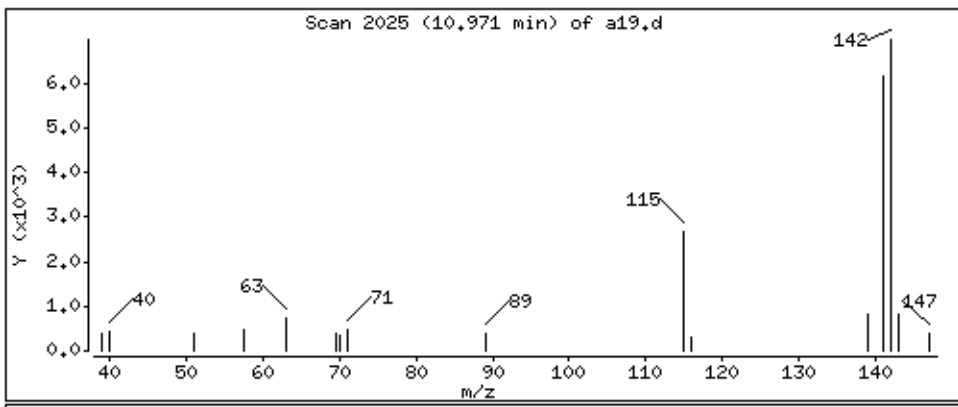
Client ID: FD-1 Instrument: 50mv5a.i

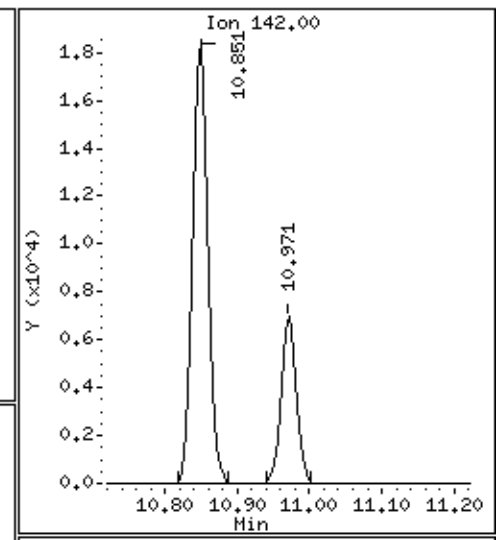
Sample Info: 50163047007x100

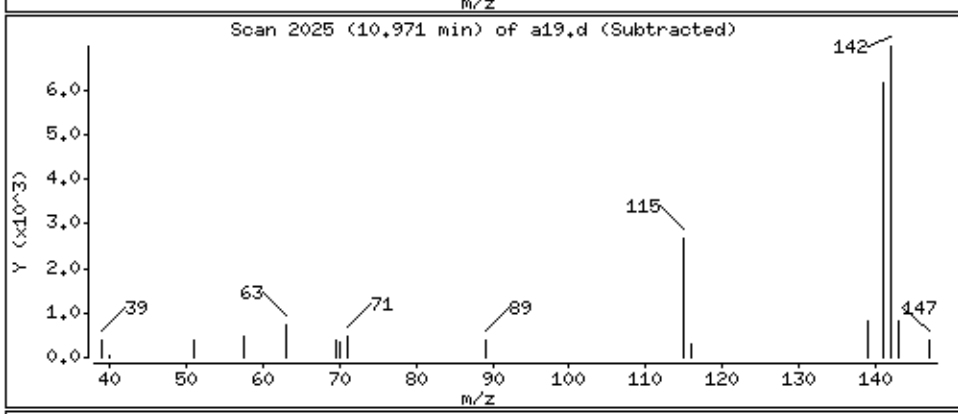
Operator: TMW

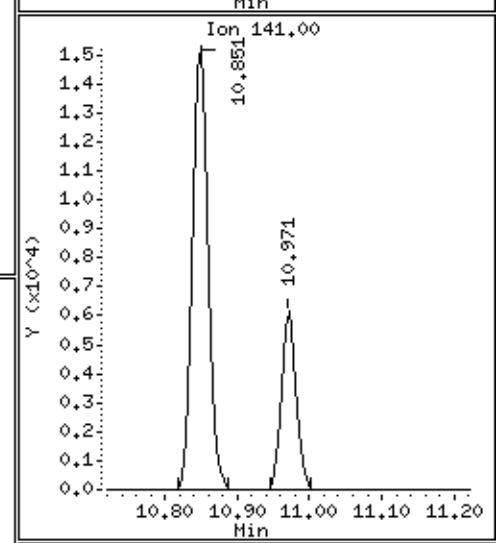
Column phase: DB-624 Column diameter: 0.18

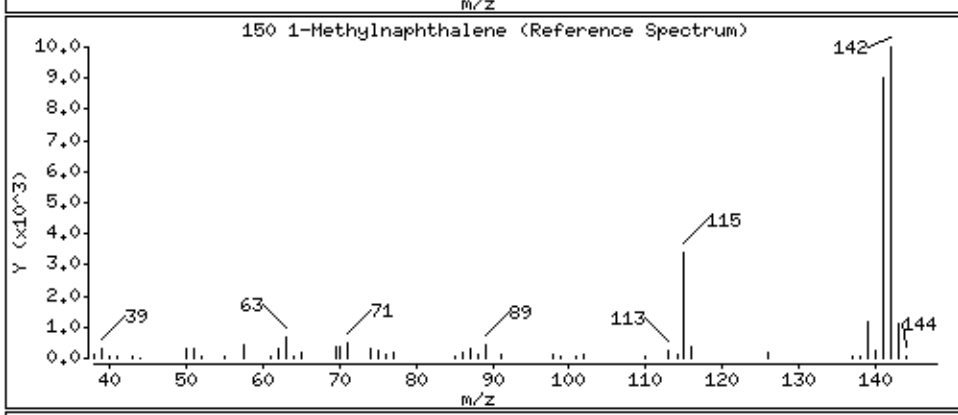
150 1-Methylnaphthalene Concentration: 864 ppb

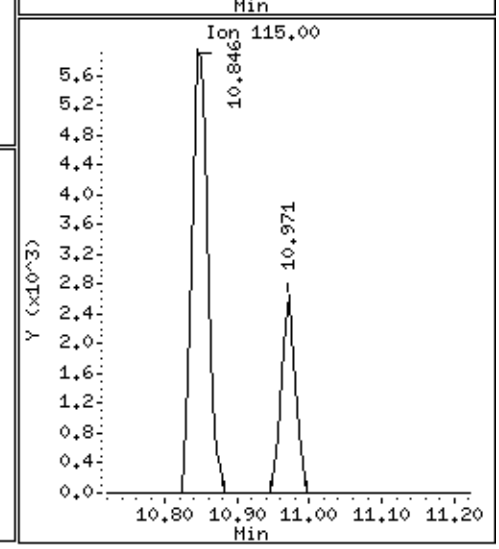


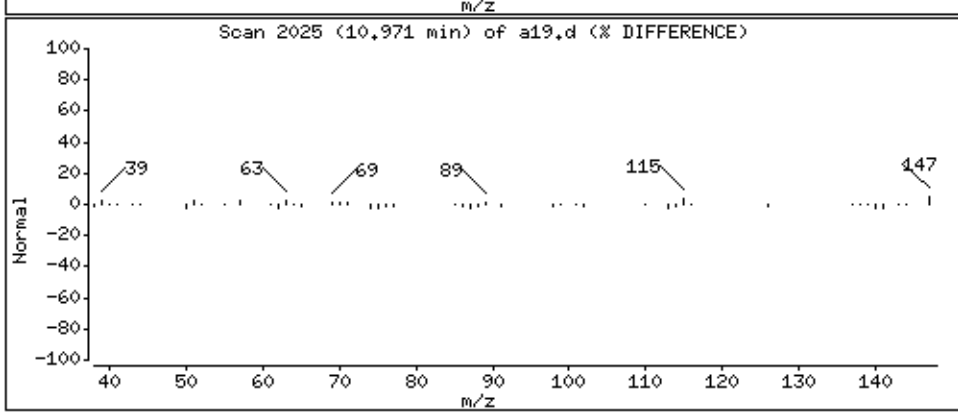












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Injection Date: 18-JAN-2017 23:56
Instrument: 50mv5a.i
Lab Sample ID: 50163047007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

TB-1

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/20/2017 17:20
Lab Sample ID: 50163047008
Date Analyzed: 01/20/2017 17:20
Lab File ID: B012017.B\B07.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1.1
Instrument: 50MV5B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

TB-1

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/20/2017 17:20
Lab Sample ID: 50163047008
Date Analyzed: 01/20/2017 17:20
Lab File ID: B012017.B\B07.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1.1
Instrument: 50MV5B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d
Lab Smp Id: 50163047008 Client Smp ID: TB-1
Inj Date : 20-JAN-2017 17:20
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 50163047008
Misc Info : 99078
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b012017.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 11:18 50mv5b.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:33 Cal File: b08cal8.d
Als bottle: 58
Dil Factor: 1.10000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.100	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 36 Dibromofluoromethane (S)	113	3.654	3.659	(0.817)	38528	50.4660	50.5	
* 45 Fluorobenzene (IS)	96	4.475	4.480	(1.000)	152004	50.0000		
$ 56 Toluene-d8 (S)	98	6.274	6.274	(0.832)	152025	52.2891	52.3	
57 Toluene	91	6.347	6.347	(0.842)	2235	0.67563	0.743	
* 66 Chlorobenzene-d5 (IS)	117	7.540	7.540	(1.000)	120610	50.0000		
72 Styrene	104	8.010	8.010	(1.062)	1863	0.70739	0.778	
$ 75 4-Bromofluorobenzene (S)	95	8.345	8.345	(1.107)	63240	51.7180	51.7	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.020	9.020	(1.000)	69801	50.0000		
98 2,methyl-naphthalene	142	10.866	10.866	(1.205)	2008	1.01994	1.12	
99 1-Methylnaphthalene	142	10.986	10.986	(1.218)	2027	1.19728	1.32	

Review Codes Legend

:

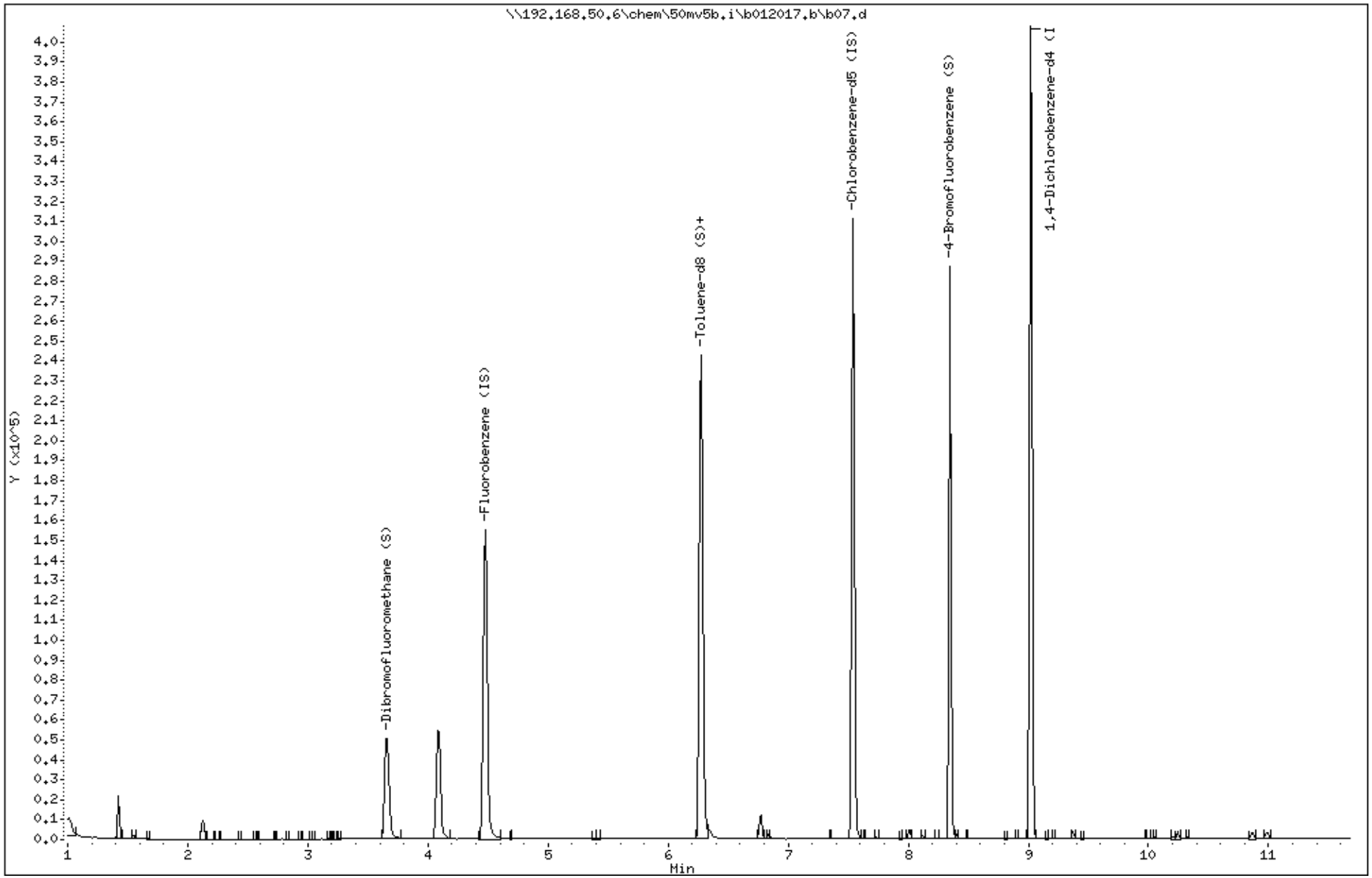
Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d
Date : 20-JAN-2017 17:20
Client ID: TB-1
Sample Info: 50163047008

Instrument: 50mv5b.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d

Date : 20-JAN-2017 17:20

Client ID: TB-1

Instrument: 50mv5b.i

Sample Info: 50163047008

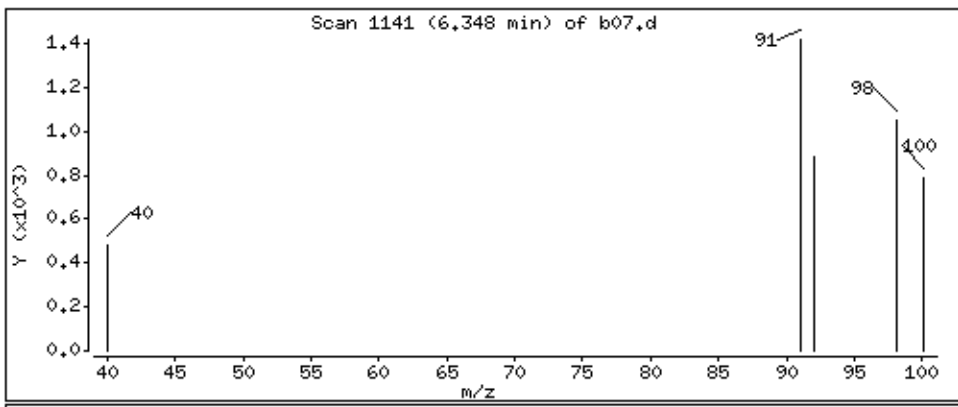
Operator: TMW

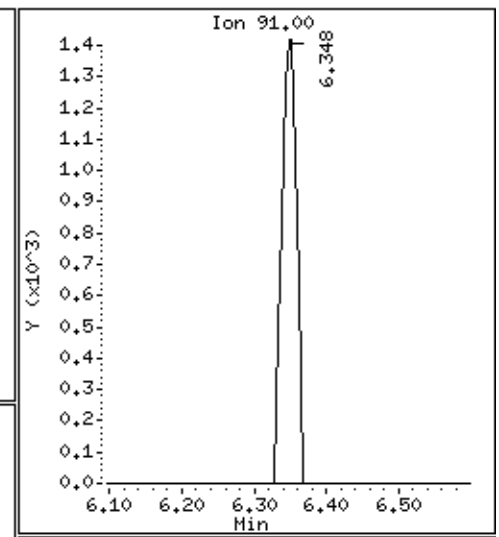
Column phase: DB-624

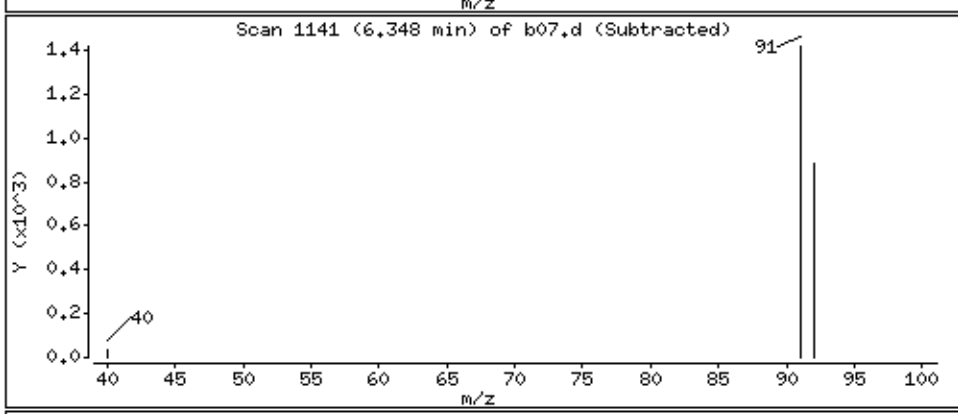
Column diameter: 0.18

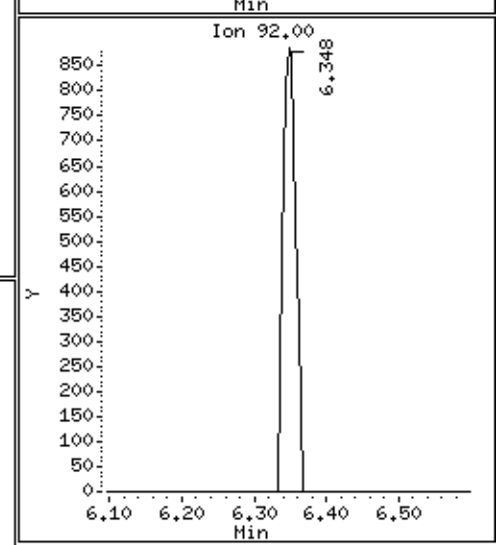
57 Toluene

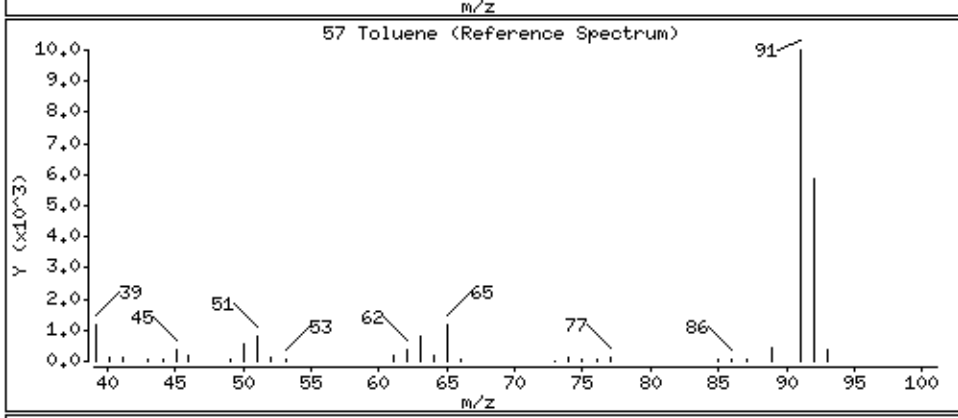
Concentration: 0.743 ppb

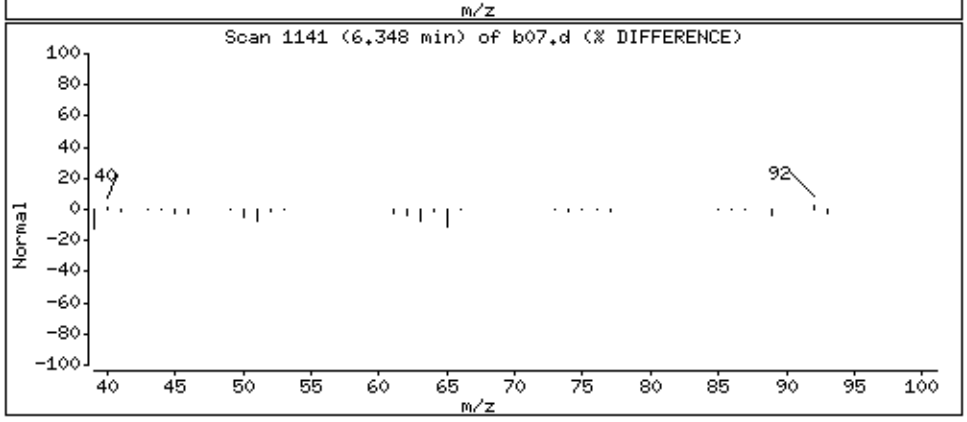












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d

Date : 20-JAN-2017 17:20

Client ID: TB-1

Instrument: 50mv5b.i

Sample Info: 50163047008

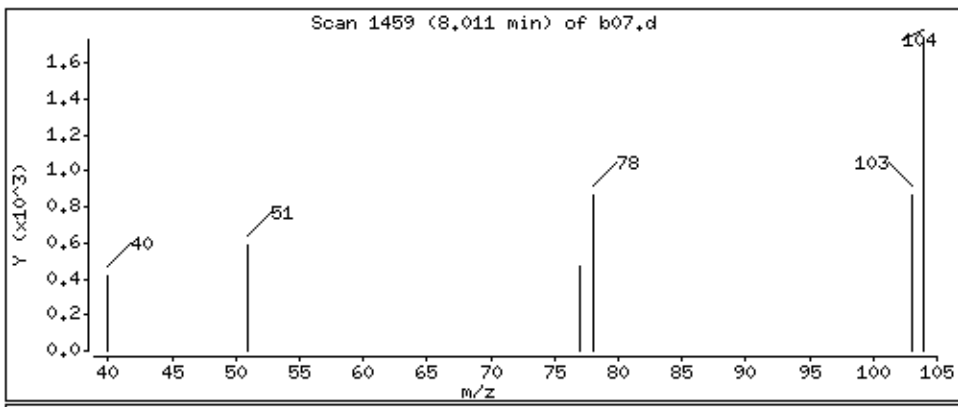
Operator: TMW

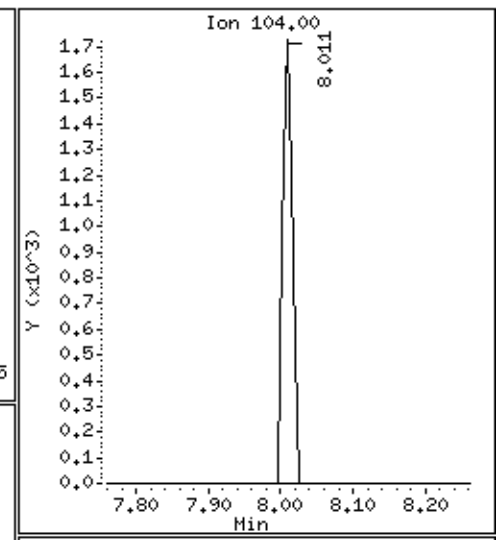
Column phase: DB-624

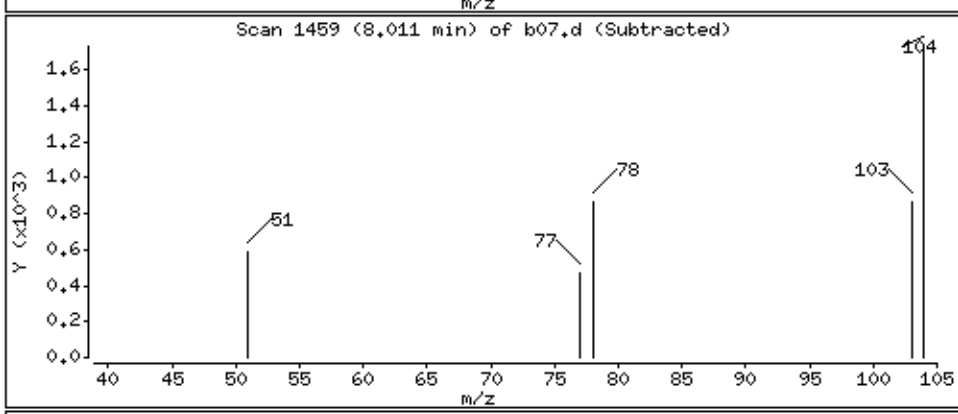
Column diameter: 0.18

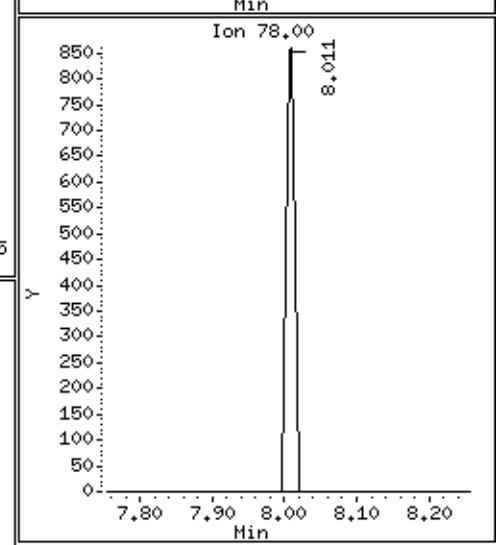
72 Styrene

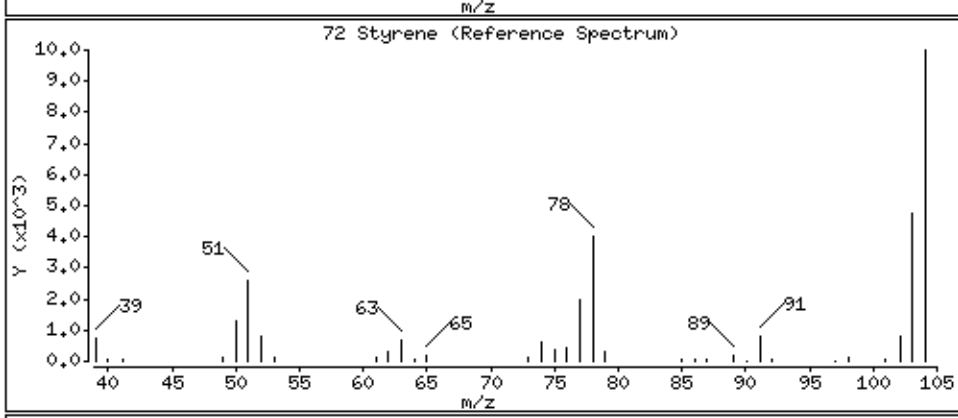
Concentration: 0.778 ppb

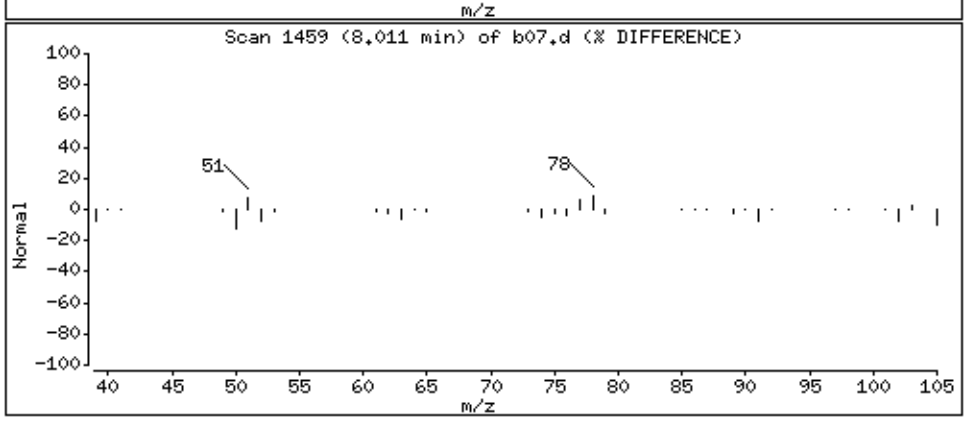












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d

Date : 20-JAN-2017 17:20

Client ID: TB-1

Instrument: 50mv5b.i

Sample Info: 50163047008

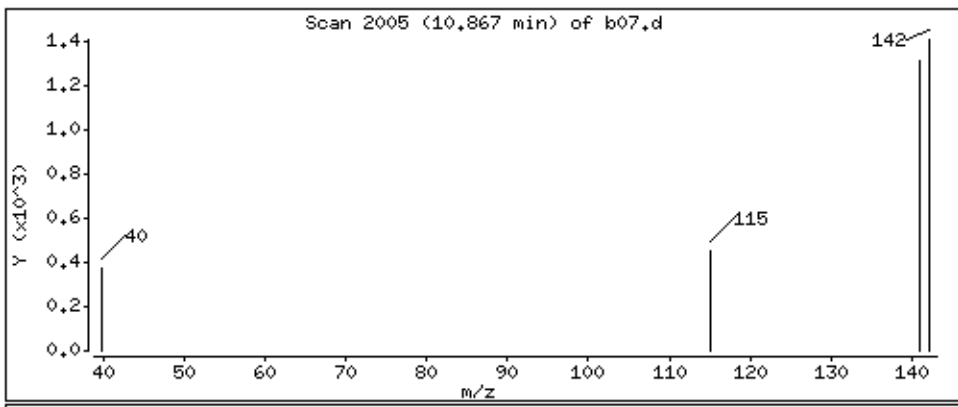
Operator: TMW

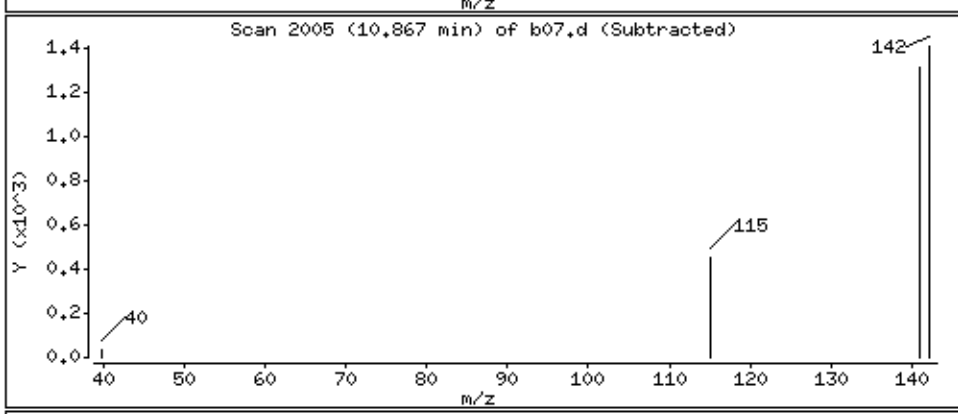
Column phase: DB-624

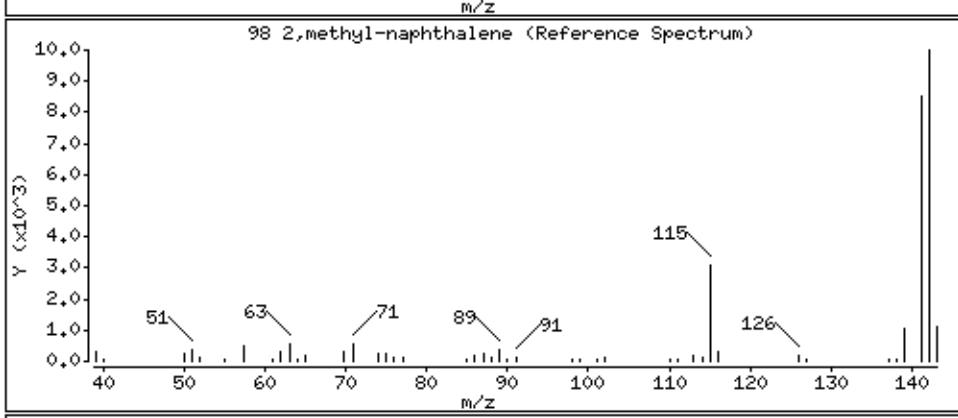
Column diameter: 0.18

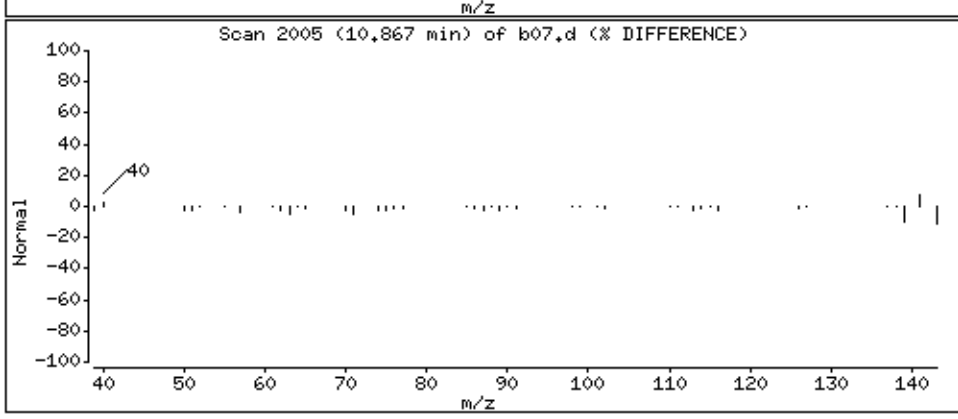
98 2,methyl-naphthalene

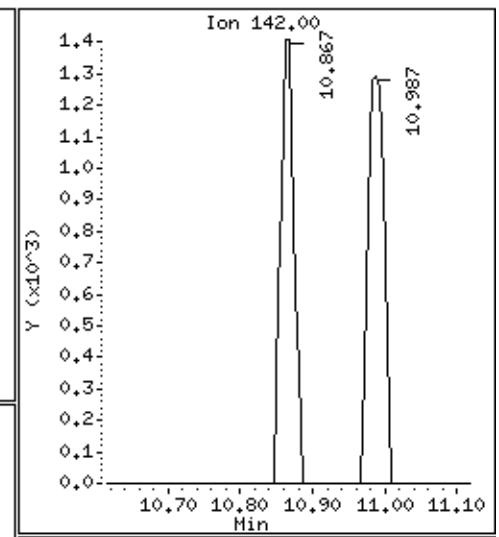
Concentration: 1.12 ppb

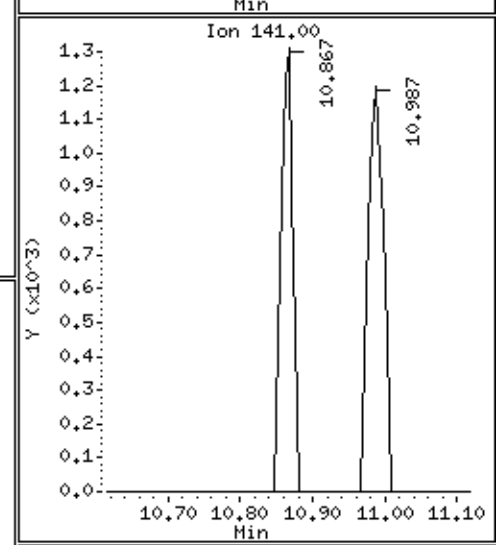


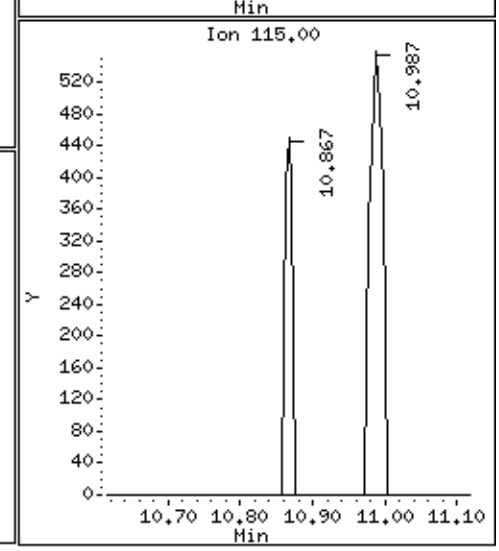












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b07.d

Date : 20-JAN-2017 17:20

Client ID: TB-1

Instrument: 50mv5b.i

Sample Info: 50163047008

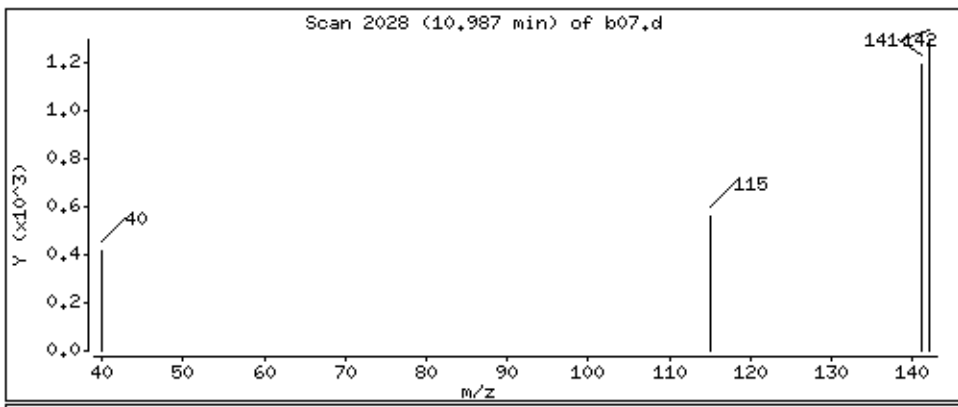
Operator: TMW

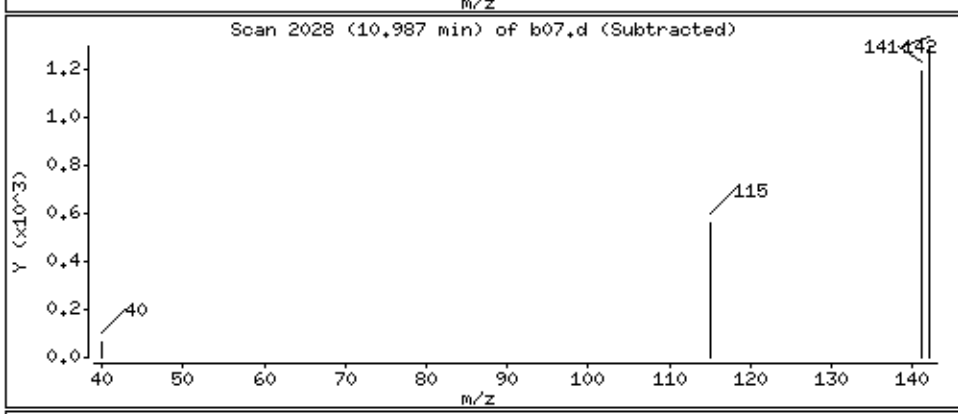
Column phase: DB-624

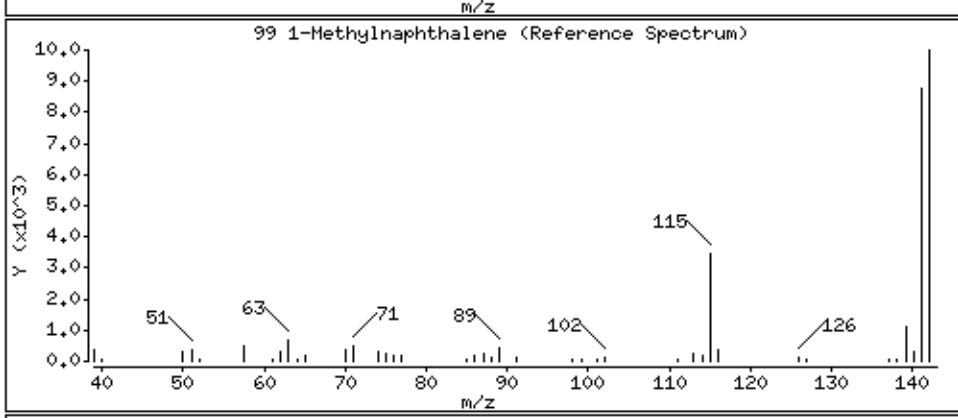
Column diameter: 0.18

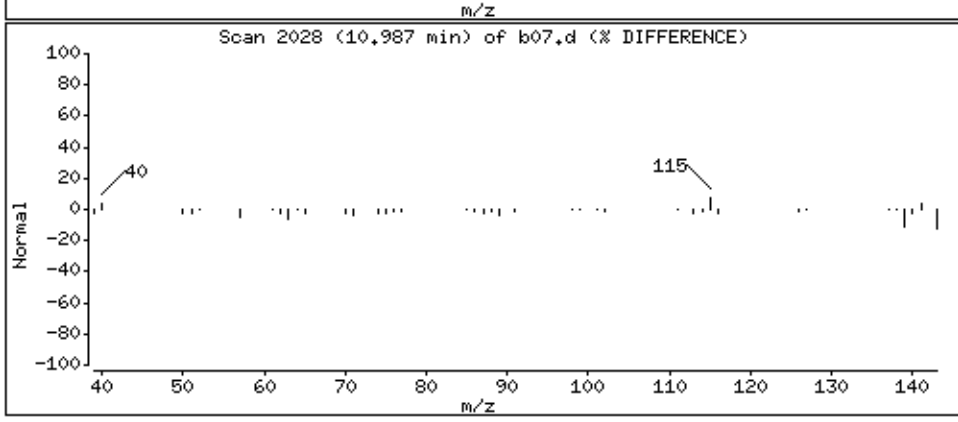
99 1-Methylnaphthalene

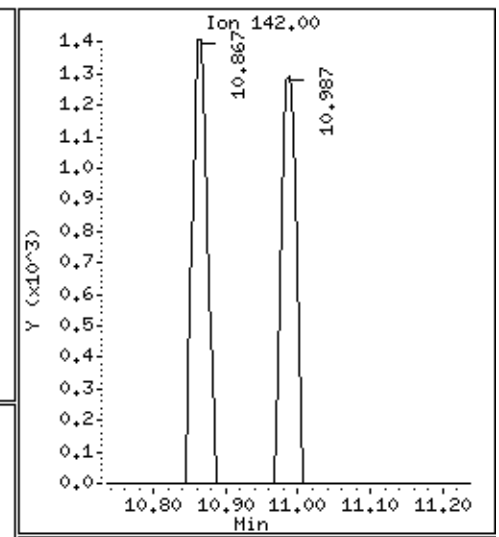
Concentration: 1.32 ppb

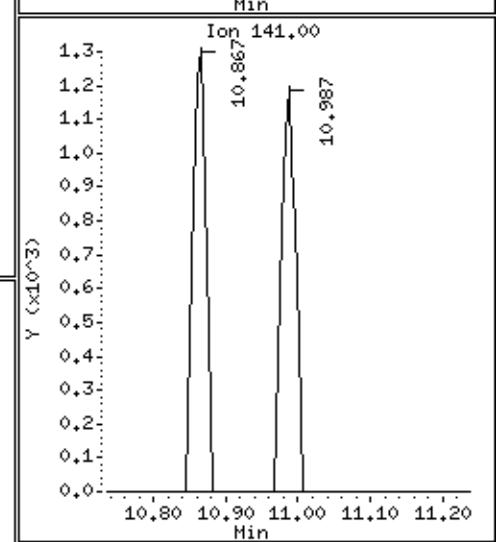


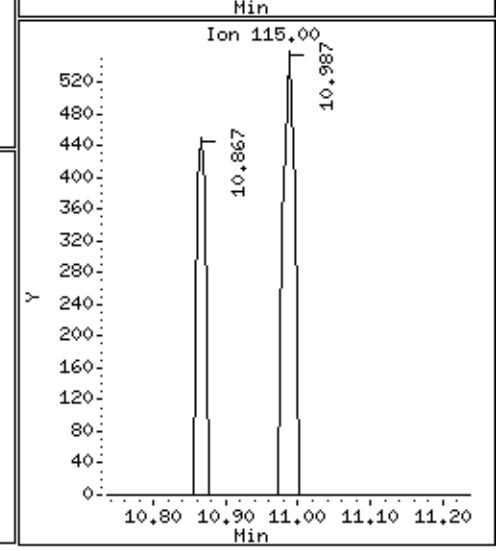












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b/b07.d
Injection Date: 20-JAN-2017 17:20
Instrument: 50mv5b.i
Lab Sample ID: 50163047008
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged			0.07740	0.07015	0.07261	0.07060
Acrolein	Averaged		0.02537	0.02190	0.02549	0.02343	0.02668
Acrylonitrile	Averaged		0.09850	0.08711	0.07974	0.09255	0.08905
Benzene	Averaged	1.38945	1.15387	0.95503	0.84488	1.08633	0.97142
Bromobenzene	Averaged		0.93203	0.83973	0.60834	0.74841	0.65889
Bromochloromethane	Averaged			0.23927	0.22264	0.26503	0.25292
Bromodichloromethane	Averaged		0.40680	0.34768	0.32090	0.38533	0.35032
Bromoform	Averaged			0.38408	0.34656	0.43815	0.42347
Bromomethane	Linear			0.06853	0.07366	0.09377	0.11454
2-Butanone (MEK)	Averaged			0.10689	0.09531	0.09744	0.09932
n-Butylbenzene	Averaged		3.28385	2.71070	2.38937	3.14456	2.81413
sec-Butylbenzene	Averaged	4.93958	4.19089	3.30388	2.83473	3.78072	3.41361
tert-Butylbenzene	Averaged		2.69343	2.18942	1.89643	2.46790	2.22006
Carbon disulfide	Averaged			0.82367	0.67593	0.84962	0.74608
Carbon tetrachloride	Averaged		0.31231	0.29352	0.26187	0.35868	0.33789
Chlorobenzene	Averaged		1.19235	0.97014	0.83930	1.04577	0.91345
Chloroethane	Averaged		0.08452	0.09479	0.10961	0.12052	0.14212
Chloroform	Averaged		0.54984	0.43685	0.38203	0.47575	0.44730
Chloromethane	Averaged			0.33249	0.33118	0.31480	0.34180
2-Chlorotoluene	Averaged		2.60822	2.12775	1.86148	2.35392	2.07307
4-Chlorotoluene	Averaged		0.96024	0.74338	0.62544	0.79450	0.73401
Dibromochloromethane	Averaged	0.37987	0.36129	0.31810	0.28697	0.35794	0.32990
1,2-Dibromoethane (EDB)	Averaged	0.29006	0.28862	0.26782	0.24683	0.30454	0.28330
Dibromomethane	Averaged		0.14348	0.14655	0.13817	0.16038	0.15758
1,2-Dichlorobenzene	Averaged		1.76087	1.44171	1.27810	1.50642	1.41837
1,3-Dichlorobenzene	Averaged		1.76347	1.50044	1.29286	1.58548	1.44077
1,4-Dichlorobenzene	Averaged		1.82359	1.52972	1.27810	1.63060	1.44813
trans-1,4-Dichloro-2-butene	Averaged			0.11832	0.10169	0.12464	0.11747
Dichlorodifluoromethane	Averaged			0.16786	0.20729	0.22567	0.24792
1,1-Dichloroethane	Averaged		0.53966	0.46022	0.41881	0.52935	0.49186
1,2-Dichloroethane	Averaged		0.39553	0.31325	0.29866	0.35362	0.33219
1,1-Dichloroethene	Averaged	0.21523	0.22562	0.18924	0.17095	0.23585	0.21491
cis-1,2-Dichloroethene	Averaged		0.25466	0.24563	0.22509	0.27882	0.26102
trans-1,2-Dichloroethene	Averaged		0.24144	0.21285	0.19742	0.25451	0.22709
1,2-Dichloropropane	Averaged		0.30841	0.27560	0.24408	0.30910	0.29872

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.57541	0.46130	0.39766	0.49274	0.45981
2,2-Dichloropropane	Averaged		0.36714	0.33670	0.29831	0.38926	0.36113
1,1-Dichloropropene	Averaged		0.34763	0.30954	0.29266	0.39316	0.36605
cis-1,3-Dichloropropene	Averaged		0.58631	0.50802	0.46112	0.58093	0.52146
trans-1,3-Dichloropropene	Averaged		0.48353	0.42525	0.39878	0.49824	0.46021
Ethylbenzene	Averaged	0.76439	0.60967	0.50061	0.43748	0.55067	0.49231
Ethyl methacrylate	Averaged		0.40904	0.35598	0.31311	0.38694	0.37599
Hexachloro-1,3-butadiene	Averaged	0.86478	0.71672	0.62748	0.56702	0.70725	0.67426
n-Hexane	Averaged		0.47420	0.38880	0.34546	0.49471	0.48731
2-Hexanone	Averaged		0.31255	0.25858	0.23102	0.26812	0.25480
Iodomethane	Averaged			0.15229	0.17244	0.22847	0.23880
Isopropylbenzene (Cumene)	Averaged	2.57497	2.11867	1.70445	1.50034	1.89593	1.64899
p-Isopropyltoluene	Averaged		3.44865	2.75679	2.45509	3.15360	2.84650
Methylene Chloride	Averaged			0.22293	0.20631	0.26655	0.23462
1-Methylnaphthalene	Averaged		1.19165	1.01034	0.90371	0.99761	1.11554
2-Methylnaphthalene	Averaged		1.39927	1.07652	0.97512	1.11395	1.21206
4-Methyl-2-pentanone (MIBK)	Averaged		0.42503	0.33979	0.31371	0.36860	0.35224
Methyl-tert-butyl ether	Averaged	0.72263	0.73428	0.61387	0.56014	0.65351	0.61037
Naphthalene	Averaged	3.36549	2.86385	2.27119	2.12445	2.48509	2.59544
n-Propylbenzene	Averaged		4.38770	3.58367	3.11744	4.03517	3.52575
Styrene	Averaged	1.60516	1.31227	1.12970	0.95850	1.19814	1.05823
1,1,1,2-Tetrachloroethane	Averaged	0.40310	0.40463	0.33333	0.29613	0.37389	0.34141
1,1,2,2-Tetrachloroethane	Averaged		0.80063	0.66265	0.59610	0.72315	0.71249
Tetrachloroethene	Averaged	0.45677	0.41891	0.35090	0.31141	0.43065	0.36854
Toluene	Averaged		1.87652	1.44830	1.21039	1.54361	1.30709
1,2,3-Trichlorobenzene	Averaged	1.60766	1.20376	1.05365	0.94284	1.10268	1.08833
1,2,4-Trichlorobenzene	Averaged		1.34563	1.14807	0.98419	1.16777	1.14655
1,1,1-Trichloroethane	Averaged		0.40420	0.33745	0.31735	0.41626	0.39561
1,1,2-Trichloroethane	Averaged		0.25903	0.21003	0.20194	0.24707	0.23647
Trichloroethene	Averaged		0.27828	0.24671	0.22402	0.28843	0.27638
Trichlorofluoromethane	Averaged			0.23804	0.28127	0.29608	0.33889
1,2,3-Trichloropropane	Averaged		0.16480	0.16545	0.14175	0.18122	0.17210
1,2,4-Trimethylbenzene	Averaged		3.38290	2.72370	2.35451	2.86170	2.60686
1,3,5-Trimethylbenzene	Averaged		3.15755	2.59879	2.20217	2.80411	2.55385
Vinyl acetate	Averaged		0.55006	0.51546	0.56262	0.53412	0.60946

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged		0.17165	0.23226	0.25409	0.27667	0.29783
m&p-Xylene	Averaged		0.79512	0.64092	0.56476	0.70312	0.60065
o-Xylene	Averaged	0.95742	0.76358	0.62919	0.55717	0.68624	0.59998
4-Bromofluorobenzene (S)	Averaged	0.50301	0.51714	0.51138	0.50693	0.50834	0.51211
Dibromofluoromethane (S)	Averaged	0.24756	0.25726	0.25206	0.25553	0.24379	0.25859
Toluene-d8 (S)	Averaged	1.17894	1.24726	1.20892	1.21127	1.20860	1.19506

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.06871	0.06870
Acrolein	Averaged	0.02343	0.02510
Acrylonitrile	Averaged	0.09039	0.08975
Benzene	Averaged	1.00844	1.02074
Bromobenzene	Averaged	0.69488	0.66964
Bromochloromethane	Averaged	0.23679	0.22349
Bromodichloromethane	Averaged	0.37207	0.36568
Bromoform	Averaged	0.42634	0.42750
Bromomethane	Linear	0.11243	0.10197
2-Butanone (MEK)	Averaged	0.10121	0.08209
n-Butylbenzene	Averaged	2.95538	2.72390
sec-Butylbenzene	Averaged	3.51021	3.38739
tert-Butylbenzene	Averaged	2.28421	2.31611
Carbon disulfide	Averaged	0.76162	0.68557
Carbon tetrachloride	Averaged	0.35421	0.33613
Chlorobenzene	Averaged	0.99963	0.92733
Chloroethane	Averaged	0.11802	0.10158
Chloroform	Averaged	0.44946	0.44201
Chloromethane	Averaged	0.33979	0.34257
2-Chlorotoluene	Averaged	2.18977	2.07554
4-Chlorotoluene	Averaged	0.74136	0.73278
Dibromochloromethane	Averaged	0.35119	0.33857
1,2-Dibromoethane (EDB)	Averaged	0.30475	0.29564
Dibromomethane	Averaged	0.16036	0.15756
1,2-Dichlorobenzene	Averaged	1.45240	1.39633
1,3-Dichlorobenzene	Averaged	1.47895	1.42369
1,4-Dichlorobenzene	Averaged	1.48546	1.47777
trans-1,4-Dichloro-2-butene	Averaged	0.12389	0.12173
Dichlorodifluoromethane	Averaged	0.23847	0.23871
1,1-Dichloroethane	Averaged	0.48596	0.44528
1,2-Dichloroethane	Averaged	0.33928	0.34113
1,1-Dichloroethene	Averaged	0.22421	0.21694
cis-1,2-Dichloroethene	Averaged	0.26542	0.25880
trans-1,2-Dichloroethene	Averaged	0.24411	0.23337
1,2-Dichloropropane	Averaged	0.30746	0.29719

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.48888	0.46425
2,2-Dichloropropane	Averaged	0.37806	0.35774
1,1-Dichloropropene	Averaged	0.37774	0.36303
cis-1,3-Dichloropropene	Averaged	0.56654	0.55233
trans-1,3-Dichloropropene	Averaged	0.50238	0.47650
Ethylbenzene	Averaged	0.54473	0.49951
Ethyl methacrylate	Averaged	0.38019	0.37849
Hexachloro-1,3-butadiene	Averaged	0.69295	0.66093
n-Hexane	Averaged	0.51691	0.45886
2-Hexanone	Averaged	0.26558	0.25120
Iodomethane	Averaged	0.24905	0.22003
Isopropylbenzene (Cumene)	Averaged	1.80440	1.63010
p-Isopropyltoluene	Averaged	3.02854	2.78400
Methylene Chloride	Averaged	0.24464	0.24549
1-Methylnaphthalene	Averaged	1.07662	1.11426
2-Methylnaphthalene	Averaged	1.17800	1.28128
4-Methyl-2-pentanone (MIBK)	Averaged	0.35469	0.35024
Methyl-tert-butyl ether	Averaged	0.62606	0.63371
Naphthalene	Averaged	2.49562	2.51776
n-Propylbenzene	Averaged	3.68463	3.55484
Styrene	Averaged	1.12682	1.06446
1,1,1,2-Tetrachloroethane	Averaged	0.37859	0.35075
1,1,2,2-Tetrachloroethane	Averaged	0.70126	0.72691
Tetrachloroethene	Averaged	0.40119	0.36584
Toluene	Averaged	1.42142	1.33418
1,2,3-Trichlorobenzene	Averaged	1.07333	1.07000
1,2,4-Trichlorobenzene	Averaged	1.13072	1.14492
1,1,1-Trichloroethane	Averaged	0.40550	0.38426
1,1,2-Trichloroethane	Averaged	0.24322	0.23692
Trichloroethene	Averaged	0.27852	0.27241
Trichlorofluoromethane	Averaged	0.31882	0.29198
1,2,3-Trichloropropane	Averaged	0.17725	0.18597
1,2,4-Trimethylbenzene	Averaged	2.73838	2.56728
1,3,5-Trimethylbenzene	Averaged	2.61449	2.47758
Vinyl acetate	Averaged	0.52194	0.53705

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.28220	0.28989
m&p-Xylene	Averaged	0.64924	0.59381
o-Xylene	Averaged	0.64390	0.59836
4-Bromofluorobenzene (S)	Averaged	0.51266	0.49990
Dibromofluoromethane (S)	Averaged	0.24301	0.24599
Toluene-d8 (S)	Averaged	1.23981	1.21611

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	4.61237			0.07136	
Acrolein	Averaged	6.64460			0.02449	
Acrylonitrile	Averaged	6.32151			0.08958	
Benzene	Averaged	15.51357			1.05377	
Bromobenzene	Averaged	15.46004			0.73599	
Bromochloromethane	Averaged	6.91723			0.24002	
Bromodichloromethane	Averaged	7.65820			0.36411	
Bromoform	Averaged	8.64550			0.40768	
Bromomethane	Linear		0.99677	0.00216	0.10372	
2-Butanone (MEK)	Averaged	8.57443			0.09704	
n-Butylbenzene	Averaged	10.43135			2.86027	
sec-Butylbenzene	Averaged	17.53230			3.67013	
tert-Butylbenzene	Averaged	10.74272			2.29537	
Carbon disulfide	Averaged	9.30976			0.75708	
Carbon tetrachloride	Averaged	10.87012			0.32209	
Chlorobenzene	Averaged	11.49704			0.98400	
Chloroethane	Averaged	17.21503			0.11017	
Chloroform	Averaged	11.11849			0.45475	
Chloromethane	Averaged	3.13161			0.33377	
2-Chlorotoluene	Averaged	10.90031			2.18425	
4-Chlorotoluene	Averaged	13.28259			0.76167	
Dibromochloromethane	Averaged	8.51524			0.34048	
1,2-Dibromoethane (EDB)	Averaged	6.85919			0.28520	
Dibromomethane	Averaged	5.98042			0.15201	
1,2-Dichlorobenzene	Averaged	10.11680			1.46489	
1,3-Dichlorobenzene	Averaged	9.80274			1.49795	
1,4-Dichlorobenzene	Averaged	11.07158			1.52477	
trans-1,4-Dichloro-2-butene	Averaged	7.18420			0.11796	
Dichlorodifluoromethane	Averaged	13.38978			0.22099	
1,1-Dichloroethane	Averaged	9.08818			0.48159	
1,2-Dichloroethane	Averaged	9.12964			0.33909	
1,1-Dichloroethene	Averaged	10.02180			0.21162	
cis-1,2-Dichloroethene	Averaged	6.59687			0.25563	
trans-1,2-Dichloroethene	Averaged	8.51951			0.23011	
1,2-Dichloropropane	Averaged	8.20923			0.29151	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-8

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	11.17963			0.47715	
2,2-Dichloropropane	Averaged	8.47489			0.35548	
1,1-Dichloropropene	Averaged	10.42711			0.34997	
cis-1,3-Dichloropropene	Averaged	8.37924			0.53953	
trans-1,3-Dichloropropene	Averaged	8.33251			0.46356	
Ethylbenzene	Averaged	18.25287			0.54992	
Ethyl methacrylate	Averaged	8.10931			0.37139	
Hexachloro-1,3-butadiene	Averaged	12.47281			0.68892	
n-Hexane	Averaged	13.73825			0.45232	
2-Hexanone	Averaged	9.48357			0.26312	
Iodomethane	Averaged	18.47204			0.21018	
Isopropylbenzene (Cumene)	Averaged	18.55364			1.85973	
p-Isopropyltoluene	Averaged	10.92280			2.92474	
Methylene Chloride	Averaged	8.75627			0.23676	
1-Methylnaphthalene	Averaged	8.99602			1.05853	
2-Methylnaphthalene	Averaged	11.83456			1.17660	
4-Methyl-2-pentanone (MIBK)	Averaged	9.54937			0.35776	
Methyl-tert-butyl ether	Averaged	9.07307			0.64432	
Naphthalene	Averaged	14.73860			2.58986	
n-Propylbenzene	Averaged	10.98206			3.69846	
Styrene	Averaged	16.96033			1.18166	
1,1,1,2-Tetrachloroethane	Averaged	10.28538			0.36023	
1,1,2,2-Tetrachloroethane	Averaged	8.92833			0.70331	
Tetrachloroethene	Averaged	12.24000			0.38803	
Toluene	Averaged	14.98350			1.44879	
1,2,3-Trichlorobenzene	Averaged	17.57748			1.14278	
1,2,4-Trichlorobenzene	Averaged	9.13088			1.15255	
1,1,1-Trichloroethane	Averaged	9.93087			0.38009	
1,1,2-Trichloroethane	Averaged	8.73572			0.23353	
Trichloroethene	Averaged	8.52315			0.26639	
Trichlorofluoromethane	Averaged	11.70968			0.29418	
1,2,3-Trichloropropane	Averaged	8.61307			0.16979	
1,2,4-Trimethylbenzene	Averaged	11.73705			2.74790	
1,3,5-Trimethylbenzene	Averaged	11.21497			2.62979	
Vinyl acetate	Averaged	5.79894			0.54724	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5A GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/16/2017 01/16/2017 Calibration Time(s): 12:52 17:14

LAB FILE ID

CAL1 = A011617CAL.B\A01CAL1.D CAL2 = A011617CAL.B\A02CAL2.D CAL3 = A011617CAL.B\A03CAL3.D

CAL4 = A011617CAL.B\A04CAL4.D CAL5 = A011617CAL.B\A05CAL5.D CAL6 = A011617CAL.B\A06CAL6.D

CAL7 = A011617CAL.B\A07CAL7.D CAL8 = A011617CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	17.10868			0.25780	
m&p-Xylene	Averaged	12.05860			0.64966	
o-Xylene	Averaged	18.94749			0.67948	
4-Bromofluorobenzene (S)	Averaged	1.09742			0.50893	
Dibromofluoromethane (S)	Averaged	2.47551			0.25047	
Toluene-d8 (S)	Averaged	1.82262			1.21325	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-1

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged			0.05541	0.04392	0.04649	0.03858
Acrolein	Averaged		0.01536	0.01809	0.01767	0.02032	0.02042
Acrylonitrile	Averaged		0.04338	0.04233	0.04236	0.05223	0.04893
Benzene	Averaged	1.12634	0.83468	0.74271	0.78091	0.93846	0.82853
Bromobenzene	Averaged		0.53757	0.49496	0.58938	0.57214	0.53134
Bromochloromethane	Averaged		0.11539	0.12945	0.13514	0.15427	0.14031
Bromodichloromethane	Averaged		0.30759	0.28393	0.28329	0.33910	0.31412
Bromoform	Averaged			0.35741	0.35532	0.44088	0.38336
Bromomethane	Averaged			0.08334	0.09468	0.12017	0.13277
2-Butanone (MEK)	Averaged		0.06081	0.05916	0.05194	0.05826	0.04976
n-Butylbenzene	Averaged		2.20229	2.04254	1.97685	2.34664	2.14309
sec-Butylbenzene	Averaged	3.95376	2.81824	2.65853	2.53038	3.10297	2.80269
tert-Butylbenzene	Averaged		1.84125	1.83513	1.68792	2.01036	1.83051
Carbon disulfide	Averaged			0.64950	0.63741	0.76014	0.66944
Carbon tetrachloride	Averaged		0.27373	0.28789	0.28884	0.38689	0.36273
Chlorobenzene	Averaged		0.92092	0.82360	0.82679	0.96250	0.88972
Chloroethane	Averaged		0.10680	0.12014	0.12568	0.15619	0.15270
Chloroform	Averaged		0.39940	0.37073	0.37368	0.44734	0.40592
Chloromethane	Averaged			0.31701	0.30359	0.32313	0.28861
2-Chlorotoluene	Averaged		1.71640	1.55123	1.55697	1.74685	1.55180
4-Chlorotoluene	Averaged	0.83545	0.64959	0.62074	0.59927	0.70307	0.64031
Dibromochloromethane	Averaged	0.39384	0.31869	0.30935	0.31126	0.36924	0.35340
1,2-Dibromoethane (EDB)	Averaged		0.23834	0.24609	0.24882	0.28131	0.27421
Dibromomethane	Averaged			0.13045	0.13919	0.15455	0.14568
1,2-Dichlorobenzene	Averaged		1.33143	1.22319	1.18932	1.39821	1.23254
1,3-Dichlorobenzene	Averaged		1.34635	1.24445	1.23328	1.42676	1.28481
1,4-Dichlorobenzene	Averaged		1.47189	1.30429	1.27576	1.49337	1.31438
trans-1,4-Dichloro-2-butene	Averaged			0.05153	0.05349	0.07650	0.06693
Dichlorodifluoromethane	Averaged			0.30210	0.30600	0.37401	0.35482
1,1-Dichloroethane	Averaged		0.33707	0.31953	0.32961	0.39452	0.36879
1,2-Dichloroethane	Averaged		0.25352	0.23436	0.25002	0.29265	0.26751
1,1-Dichloroethene	Averaged		0.17317	0.17159	0.16845	0.22468	0.20548
cis-1,2-Dichloroethene	Averaged		0.19187	0.21040	0.20778	0.25799	0.24418
trans-1,2-Dichloroethene	Averaged		0.18648	0.18530	0.18009	0.22581	0.22422
1,2-Dichloropropane	Averaged		0.17081	0.18134	0.18112	0.21863	0.20692

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.36326	0.36088	0.35234	0.39509	0.39588
2,2-Dichloropropane	Averaged		0.27710	0.27543	0.28426	0.35129	0.33883
1,1-Dichloropropene	Averaged		0.25402	0.25260	0.26266	0.33978	0.31648
cis-1,3-Dichloropropene	Averaged		0.40867	0.38210	0.39409	0.47084	0.46270
trans-1,3-Dichloropropene	Averaged		0.36054	0.34708	0.35230	0.41231	0.39977
Ethylbenzene	Averaged	0.62703	0.42834	0.40293	0.41383	0.49954	0.48495
Ethyl methacrylate	Averaged			0.25435	0.27615	0.30766	0.29017
Hexachloro-1,3-butadiene	Averaged	0.69264	0.58265	0.48562	0.49006	0.60181	0.53760
n-Hexane	Averaged			0.22713	0.23714	0.31406	0.29722
2-Hexanone	Averaged		0.12622	0.12082	0.12452	0.15072	0.13141
Iodomethane	Linear			0.18241	0.20833	0.29423	0.30622
Isopropylbenzene (Cumene)	Averaged	1.95657	1.48046	1.31586	1.34578	1.64442	1.55246
p-Isopropyltoluene	Averaged		2.39720	2.29408	2.21788	2.65700	2.44693
Methylene Chloride	Averaged			0.22455	0.20962	0.25290	0.21848
1-Methylnaphthalene	Averaged		0.99849	0.90328	0.85832	1.09477	0.89660
2-Methylnaphthalene	Averaged		1.08935	1.00035	0.94767	1.18262	0.96286
4-Methyl-2-pentanone (MIBK)	Averaged		0.18125	0.17049	0.16713	0.20413	0.18465
Methyl-tert-butyl ether	Averaged	0.68514	0.52540	0.49910	0.51635	0.59060	0.55930
Naphthalene	Averaged	2.96121	2.12669	2.01939	1.91032	2.41454	1.98805
n-Propylbenzene	Averaged		2.88760	2.69279	2.56453	3.07697	2.71124
Styrene	Averaged		0.94770	0.86325	0.89412	1.05486	0.99830
1,1,1,2-Tetrachloroethane	Averaged		0.30655	0.27325	0.28430	0.34818	0.33851
1,1,2,2-Tetrachloroethane	Averaged		0.53722	0.53680	0.52305	0.65064	0.50440
Tetrachloroethene	Averaged	0.41240	0.31011	0.29739	0.31604	0.39221	0.38526
Toluene	Averaged		1.31955	1.11220	1.10186	1.26548	1.22835
1,2,3-Trichlorobenzene	Averaged		0.99849	0.84547	0.84538	1.00902	0.85505
1,2,4-Trichlorobenzene	Averaged		1.03005	0.90233	0.90818	1.07247	0.91463
1,1,1-Trichloroethane	Averaged		0.30523	0.31707	0.33081	0.40996	0.36879
1,1,2-Trichloroethane	Averaged		0.16426	0.18577	0.18305	0.20899	0.20260
Trichloroethene	Averaged		0.20248	0.20191	0.20136	0.26531	0.24054
Trichlorofluoromethane	Averaged			0.35312	0.37546	0.46518	0.44654
1,2,3-Trichloropropane	Averaged		0.12555	0.15231	0.14172	0.18137	0.15071
1,2,4-Trimethylbenzene	Averaged		2.28033	2.13094	1.99818	2.37071	2.16635
1,3,5-Trimethylbenzene	Averaged		2.23940	2.01695	1.91926	2.22911	2.08409
Vinyl acetate	Averaged		0.21027	0.26985	0.28135	0.31686	0.32203

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged		0.19052	0.24965	0.25406	0.31231	0.30443
m&p-Xylene	Averaged	0.76576	0.57837	0.51633	0.51273	0.61330	0.58045
o-Xylene	Averaged	0.73624	0.55619	0.50229	0.52497	0.59371	0.58304
4-Bromofluorobenzene (S)	Averaged	0.46350	0.46857	0.46224	0.47415	0.47554	0.48544
Dibromofluoromethane (S)	Averaged	0.31764	0.30525	0.30223	0.31225	0.31032	0.29357
Toluene-d8 (S)	Averaged	1.28374	1.31415	1.25631	1.30590	1.27169	1.27465

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.03983	0.04062
Acrolein	Averaged	0.02014	0.02028
Acrylonitrile	Averaged	0.05007	0.05367
Benzene	Averaged	0.84449	0.87502
Bromobenzene	Averaged	0.51299	0.52974
Bromochloromethane	Averaged	0.13390	0.13796
Bromodichloromethane	Averaged	0.31255	0.35110
Bromoform	Averaged	0.39979	0.45210
Bromomethane	Averaged	0.12259	
2-Butanone (MEK)	Averaged	0.04660	0.05185
n-Butylbenzene	Averaged	2.11851	2.16891
sec-Butylbenzene	Averaged	2.73361	2.81329
tert-Butylbenzene	Averaged	1.90100	1.98439
Carbon disulfide	Averaged	0.66140	0.70647
Carbon tetrachloride	Averaged	0.36547	0.38527
Chlorobenzene	Averaged	0.83106	0.90028
Chloroethane	Averaged	0.13331	
Chloroform	Averaged	0.40915	0.44225
Chloromethane	Averaged	0.26712	0.27921
2-Chlorotoluene	Averaged	1.52818	1.68921
4-Chlorotoluene	Averaged	0.62559	0.67636
Dibromochloromethane	Averaged	0.32845	0.36482
1,2-Dibromoethane (EDB)	Averaged	0.25640	0.28469
Dibromomethane	Averaged	0.14911	0.15899
1,2-Dichlorobenzene	Averaged	1.24751	1.26891
1,3-Dichlorobenzene	Averaged	1.27597	1.31896
1,4-Dichlorobenzene	Averaged	1.27543	1.36821
trans-1,4-Dichloro-2-butene	Averaged	0.06982	0.07191
Dichlorodifluoromethane	Averaged	0.33728	0.32582
1,1-Dichloroethane	Averaged	0.37083	0.39024
1,2-Dichloroethane	Averaged	0.28144	0.29723
1,1-Dichloroethene	Averaged	0.21261	0.22650
cis-1,2-Dichloroethene	Averaged	0.23951	0.26078
trans-1,2-Dichloroethene	Averaged	0.23332	0.23845
1,2-Dichloropropane	Averaged	0.20624	0.22034

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.36955	0.39771
2,2-Dichloropropane	Averaged	0.33204	0.36118
1,1-Dichloropropene	Averaged	0.31404	0.33231
cis-1,3-Dichloropropene	Averaged	0.42478	0.47383
trans-1,3-Dichloropropene	Averaged	0.38303	0.42886
Ethylbenzene	Averaged	0.44350	0.48721
Ethyl methacrylate	Averaged	0.29142	0.32028
Hexachloro-1,3-butadiene	Averaged	0.54482	0.58782
n-Hexane	Averaged	0.30251	0.31333
2-Hexanone	Averaged	0.12510	0.13047
Iodomethane	Linear	0.31382	0.28481
Isopropylbenzene (Cumene)	Averaged	1.48325	1.47759
p-Isopropyltoluene	Averaged	2.39533	2.43642
Methylene Chloride	Averaged	0.21342	0.23599
1-Methylnaphthalene	Averaged	0.93391	0.99655
2-Methylnaphthalene	Averaged	1.03456	1.13831
4-Methyl-2-pentanone (MIBK)	Averaged	0.17240	0.18321
Methyl-tert-butyl ether	Averaged	0.58967	0.61577
Naphthalene	Averaged	1.96582	2.07482
n-Propylbenzene	Averaged	2.74481	2.87012
Styrene	Averaged	0.91290	0.99686
1,1,1,2-Tetrachloroethane	Averaged	0.31840	0.34987
1,1,2,2-Tetrachloroethane	Averaged	0.53594	0.56954
Tetrachloroethene	Averaged	0.36624	0.38783
Toluene	Averaged	1.11385	1.20503
1,2,3-Trichlorobenzene	Averaged	0.83877	0.88978
1,2,4-Trichlorobenzene	Averaged	0.92448	0.95707
1,1,1-Trichloroethane	Averaged	0.37753	0.40144
1,1,2-Trichloroethane	Averaged	0.19491	0.20656
Trichloroethene	Averaged	0.24005	0.26084
Trichlorofluoromethane	Averaged	0.40229	
1,2,3-Trichloropropane	Averaged	0.16144	0.17114
1,2,4-Trimethylbenzene	Averaged	2.11929	2.15048
1,3,5-Trimethylbenzene	Averaged	2.02922	2.15896
Vinyl acetate	Averaged	0.32135	0.32237

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.27665	0.26142
m&p-Xylene	Averaged	0.54167	0.56825
o-Xylene	Averaged	0.53178	0.56657
4-Bromofluorobenzene (S)	Averaged	0.48397	0.48576
Dibromofluoromethane (S)	Averaged	0.30187	0.29866
Toluene-d8 (S)	Averaged	1.25495	1.24101

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-7

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	14.13090			0.04414	
Acrolein	Averaged	10.23515			0.01890	
Acrylonitrile	Averaged	10.12410			0.04757	
Benzene	Averaged	13.58992			0.87139	
Bromobenzene	Averaged	6.06493			0.53830	
Bromochloromethane	Averaged	8.67197			0.13520	
Bromodichloromethane	Averaged	8.13387			0.31310	
Bromoform	Averaged	10.32648			0.39814	
Bromomethane	Averaged	18.74935			0.11071	
2-Butanone (MEK)	Averaged	9.92598			0.05405	
n-Butylbenzene	Averaged	5.52061			2.14269	
sec-Butylbenzene	Averaged	15.23783			2.92669	
tert-Butylbenzene	Averaged	5.79661			1.87008	
Carbon disulfide	Averaged	6.67473			0.68073	
Carbon tetrachloride	Averaged	14.89634			0.33583	
Chlorobenzene	Averaged	6.12280			0.87927	
Chloroethane	Averaged	14.44125			0.13247	
Chloroform	Averaged	7.34421			0.40692	
Chloromethane	Averaged	7.39737			0.29644	
2-Chlorotoluene	Averaged	5.74406			1.62009	
4-Chlorotoluene	Averaged	11.18887			0.66880	
Dibromochloromethane	Averaged	9.06835			0.34363	
1,2-Dibromoethane (EDB)	Averaged	7.07506			0.26141	
Dibromomethane	Averaged	7.09638			0.14633	
1,2-Dichlorobenzene	Averaged	5.64275			1.27016	
1,3-Dichlorobenzene	Averaged	5.12251			1.30437	
1,4-Dichlorobenzene	Averaged	6.70854			1.35762	
trans-1,4-Dichloro-2-butene	Averaged	15.69441			0.06503	
Dichlorodifluoromethane	Averaged	8.39009			0.33334	
1,1-Dichloroethane	Averaged	8.34578			0.35866	
1,2-Dichloroethane	Averaged	8.75779			0.26811	
1,1-Dichloroethene	Averaged	13.04006			0.19750	
cis-1,2-Dichloroethene	Averaged	11.69386			0.23036	
trans-1,2-Dichloroethene	Averaged	12.05023			0.21052	
1,2-Dichloropropane	Averaged	10.05081			0.19792	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-8

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	5.11295			0.37639	
2,2-Dichloropropane	Averaged	11.67147			0.31716	
1,1-Dichloropropene	Averaged	12.89262			0.29599	
cis-1,3-Dichloropropene	Averaged	8.84425			0.43100	
trans-1,3-Dichloropropene	Averaged	8.23368			0.38341	
Ethylbenzene	Averaged	15.15839			0.47342	
Ethyl methacrylate	Averaged	8.00439			0.29000	
Hexachloro-1,3-butadiene	Averaged	11.87503			0.56538	
n-Hexane	Averaged	13.90712			0.28190	
2-Hexanone	Averaged	7.59499			0.12990	
Iodomethane	Linear		0.99712	0.01241	0.28943	
Isopropylbenzene (Cumene)	Averaged	13.11720			1.53205	
p-Isopropyltoluene	Averaged	5.72074			2.40641	
Methylene Chloride	Averaged	7.16292			0.22583	
1-Methylnaphthalene	Averaged	8.44917			0.95456	
2-Methylnaphthalene	Averaged	8.48487			1.05082	
4-Methyl-2-pentanone (MIBK)	Averaged	6.89155			0.18047	
Methyl-tert-butyl ether	Averaged	10.66584			0.57267	
Naphthalene	Averaged	16.06288			2.18261	
n-Propylbenzene	Averaged	5.97028			2.79258	
Styrene	Averaged	7.10802			0.95257	
1,1,1,2-Tetrachloroethane	Averaged	9.64568			0.31701	
1,1,2,2-Tetrachloroethane	Averaged	8.71573			0.55108	
Tetrachloroethene	Averaged	12.27735			0.35843	
Toluene	Averaged	7.16244			1.19233	
1,2,3-Trichlorobenzene	Averaged	8.30995			0.89742	
1,2,4-Trichlorobenzene	Averaged	6.98329			0.95846	
1,1,1-Trichloroethane	Averaged	11.53991			0.35869	
1,1,2-Trichloroethane	Averaged	8.24708			0.19231	
Trichloroethene	Averaged	12.24877			0.23036	
Trichlorofluoromethane	Averaged	11.51903			0.40852	
1,2,3-Trichloropropane	Averaged	11.98167			0.15489	
1,2,4-Trimethylbenzene	Averaged	5.51943			2.17375	
1,3,5-Trimethylbenzene	Averaged	5.65426			2.09671	
Vinyl acetate	Averaged	14.38511			0.29201	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:25

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV5B GC Column: Col 1 SDG No.: 50163047

Calibration Date(s): 01/04/2017 01/04/2017 Calibration Time(s): 14:54 19:17

LAB FILE ID

CAL1 = B010417CAL.B\B01CAL1.D CAL2 = B010417CAL.B\B02CAL2.D CAL3 = B010417CAL.B\B03CAL3.D

CAL4 = B010417CAL.B\B04CAL4.D CAL5 = B010417CAL.B\B05CAL5.D CAL6 = B010417CAL.B\B06CAL6.D

CAL7 = B010417CAL.B\B07CAL7.D CAL8 = B010417CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	15.33041			0.26415	
m&p-Xylene	Averaged	13.81132			0.58461	
o-Xylene	Averaged	12.57133			0.57435	
4-Bromofluorobenzene (S)	Averaged	2.01764			0.47490	
Dibromofluoromethane (S)	Averaged	2.56401			0.30523	
Toluene-d8 (S)	Averaged	1.98386			1.27530	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1.d
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Inj Date : 16-JAN-2017 12:52
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal1,140014:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.159	1.159	(0.261)	255	1.00000	0.418(QM)	NI
6 Trichlorofluoromethane	101	1.483	1.488	(0.334)	497	1.00000	0.714	
9 Acrolein	56	1.692	1.697	(0.381)	652	20.0000	11.2	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.394)	506	1.00000	0.863	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	509	1.00000	1.02(Q)	
15 Acetonitrile	39	1.964	1.969	(0.442)	2242	1.00000	1.56(Q)	
16 allyl chloride	41	1.964	1.969	(0.442)	3343	2.00000	3.01	
17 Methylene Chloride	84	2.048	2.048	(0.461)	768	1.00000	1.37(Q)	
19 Acrylonitrile	53	2.184	2.189	(0.492)	768	4.00000	3.62	
21 Methyl-tert-butyl ether	73	2.210	2.220	(0.497)	1709	1.00000	1.12(M)	WP
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	628	1.00000	1.15(Q)	
35 Chloroform	83	3.434	3.444	(0.773)	1626	1.00000	1.51	
$ 37 Dibromofluoromethane (S)	113	3.617	3.627	(0.814)	29273	50.0000	49.4	
39 Cyclohexane	56	3.716	3.727	(0.836)	1239	1.00000	1.04	
151 n-butyl chloride	56	3.774	3.789	(0.849)	1745	1.00000	1.26	
42 Benzene	78	4.067	4.077	(0.915)	3286	1.00000	1.32	
44 2,2,4-Trimethylpentane	57	4.224	4.239	(0.951)	2995	1.00000	1.12	
* 46 Fluorobenzene (IS)	96	4.443	4.454	(1.000)	118248	50.0000		
47 Trichloroethene	95	4.877	4.893	(1.098)	664	1.00000	1.05	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	114210	50.0000	48.6	
58 Toluene	91	6.326	6.331	(0.841)	4843	1.00000	1.72	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
61 1,1,2-Trichloroethane	83	6.766	6.776	(0.899)	417	1.00000	0.922	
62 Tetrachloroethene	166	6.823	6.828	(0.907)	885	1.00000	1.18	
65 Dibromochloromethane	129	7.085	7.090	(0.942)	736	1.00000	1.12	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	562	1.00000	1.02	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	96875	50.0000		
68 Chlorobenzene	112	7.545	7.555	(1.003)	2854	1.00000	1.50	
69 1,1,1,2-Tetrachloroethane	131	7.618	7.628	(1.013)	781	1.00000	1.12	
70 Ethylbenzene	106	7.623	7.628	(1.013)	1481	1.00000	1.39	
71 m&p-Xylene	106	7.717	7.728	(1.026)	3998	2.00000	3.18	
72 o-Xylene	106	7.979	7.984	(1.060)	1855	1.00000	1.41	
73 Styrene	104	7.995	8.000	(1.063)	3110	1.00000	1.36	
75 Isopropylbenzene	105	8.220	8.225	(1.092)	4989	1.00000	1.38	
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	48729	50.0000	49.4	
77 Bromobenzene	77	8.413	8.418	(1.118)	2068	1.00000	1.45	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	200	1.00000	0.875(QM)	WP
81 n-Propylbenzene	91	8.476	8.481	(0.941)	6441	1.00000	1.54	
82 2-Chlorotoluene	91	8.533	8.538	(0.947)	3789	1.00000	1.53	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	4597	1.00000	1.54	
84 4-Chlorotoluene	126	8.607	8.612	(0.955)	1294	1.00000	1.50	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	3851	1.00000	1.48	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	5016	1.00000	1.61	
87 sec-Butylbenzene	105	8.889	8.899	(0.987)	5592	1.00000	1.34	
88 1,3-Dichlorobenzene	146	8.962	8.973	(0.995)	2873	1.00000	1.69	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	5089	1.00000	1.54	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	56604	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	2771	1.00000	1.60	
92 n-Butylbenzene	91	9.192	9.203	(1.020)	4703	1.00000	1.45	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	2399	1.00000	1.45	
95 1,2,4-Trichlorobenzene	180	10.040	10.050	(1.114)	2039	1.00000	1.56	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	979	1.00000	1.26	
97 Naphthalene	128	10.191	10.196	(1.131)	3810	1.00000	1.30	
98 1,2,3-Trichlorobenzene	180	10.306	10.317	(1.144)	1820	1.00000	1.41	
99 2,methyl-naphthalene	142	10.845	10.861	(1.204)	1721	1.00000	1.29	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	1546	1.00000	1.29	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1.d
Date : 16-JAN-2017 12:52
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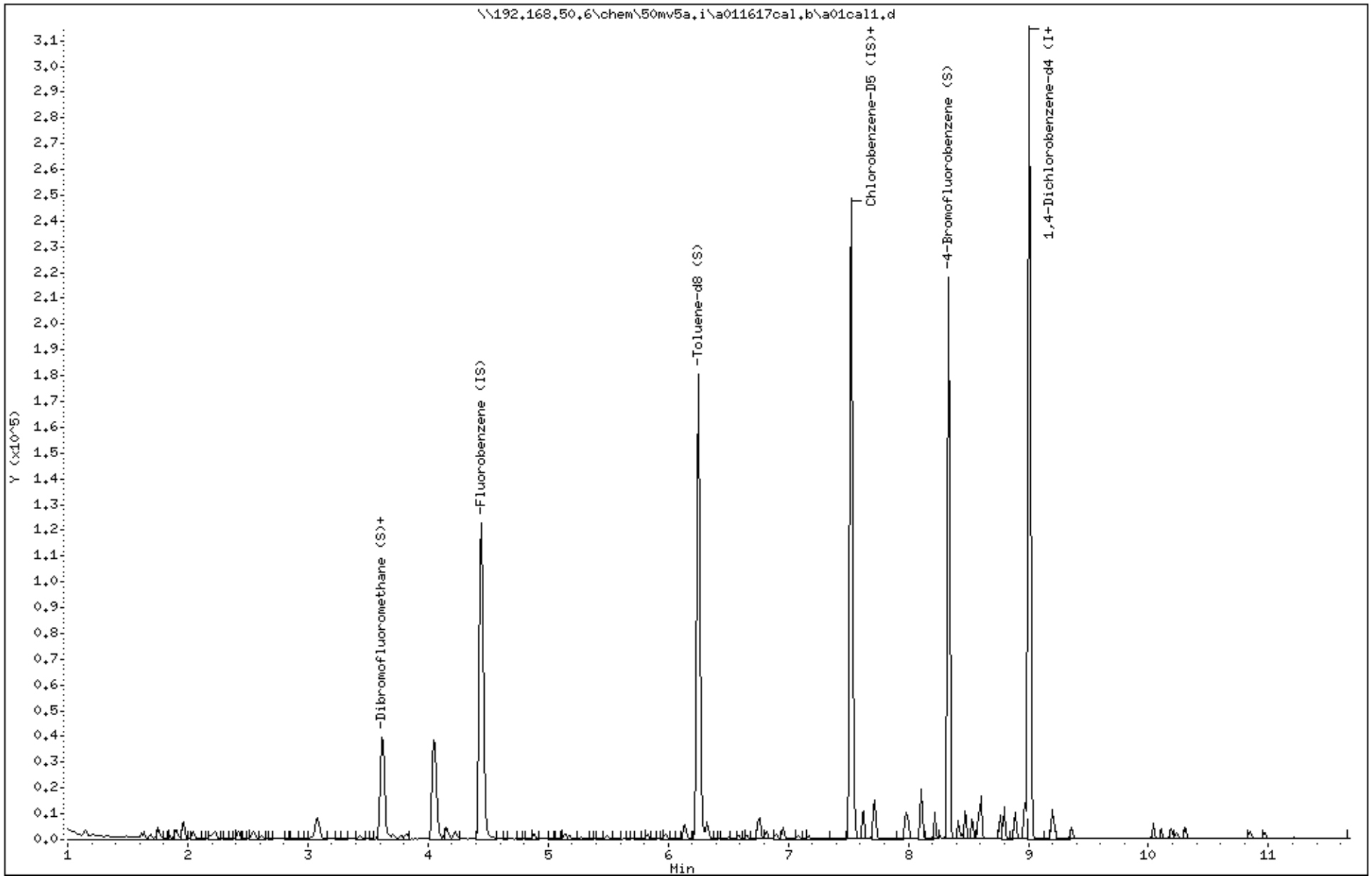
Sample Info: 8260-CAL1,140014:0

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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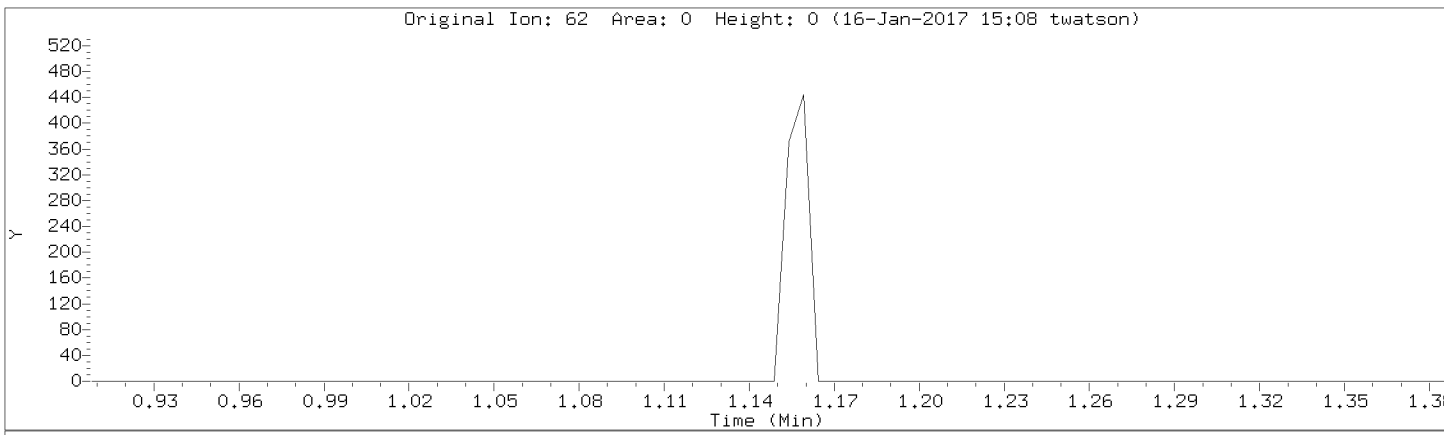
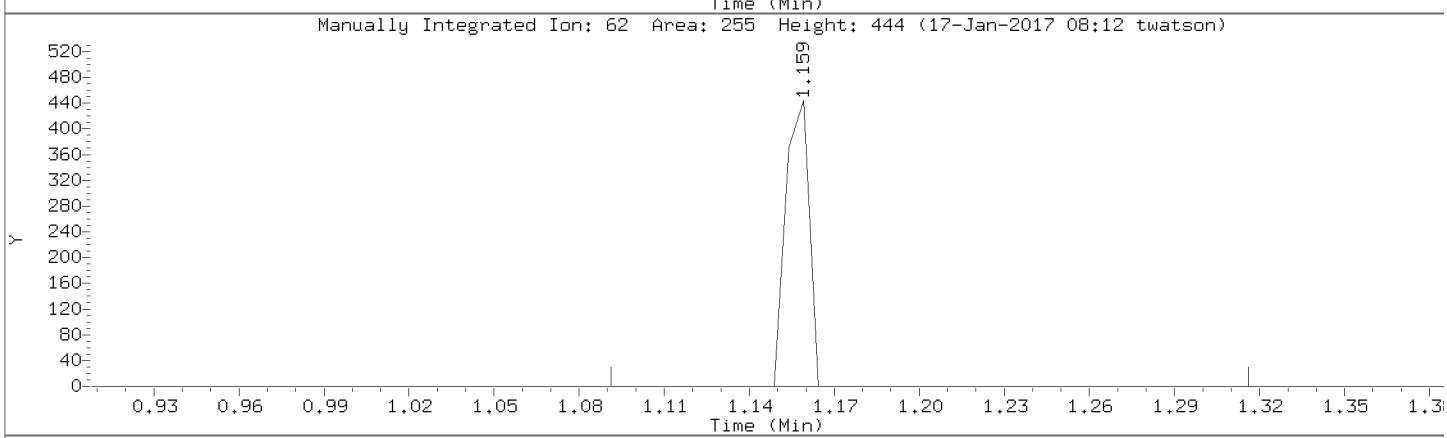
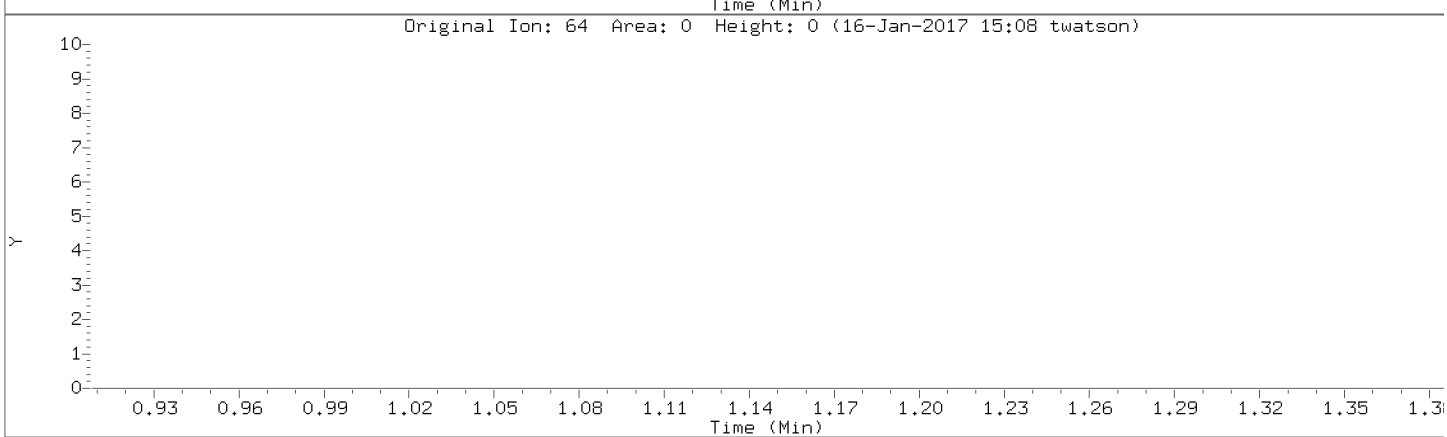
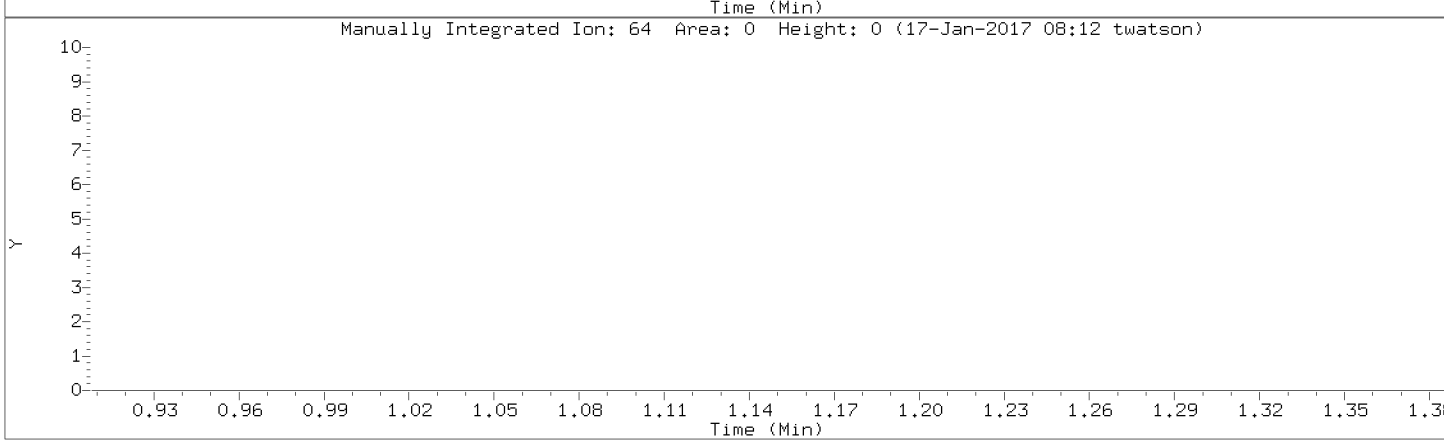
Injection Date: 16-JAN-2017 12:52
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL1,140014:0

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4









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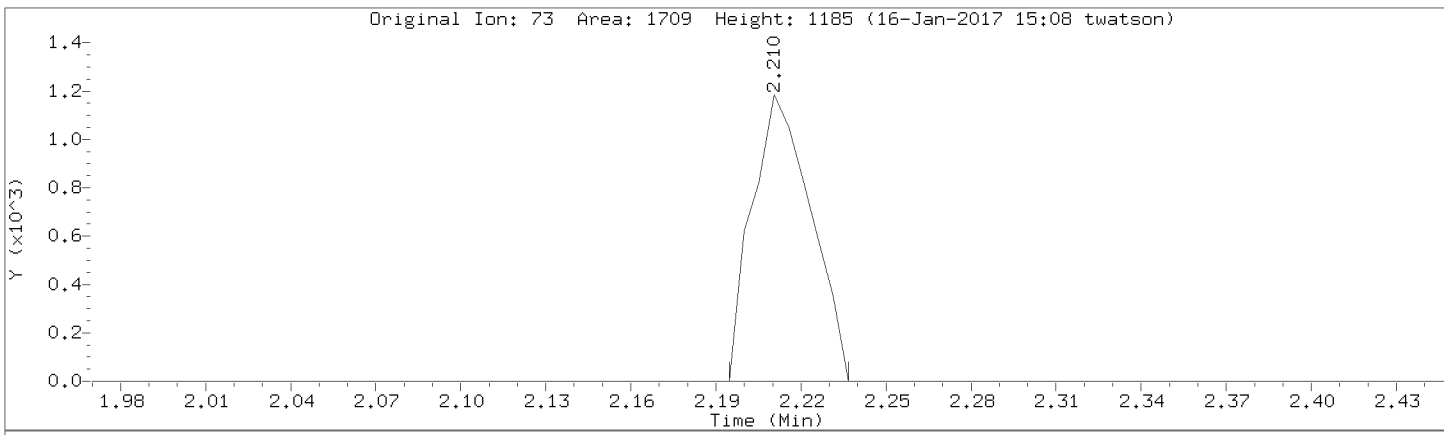
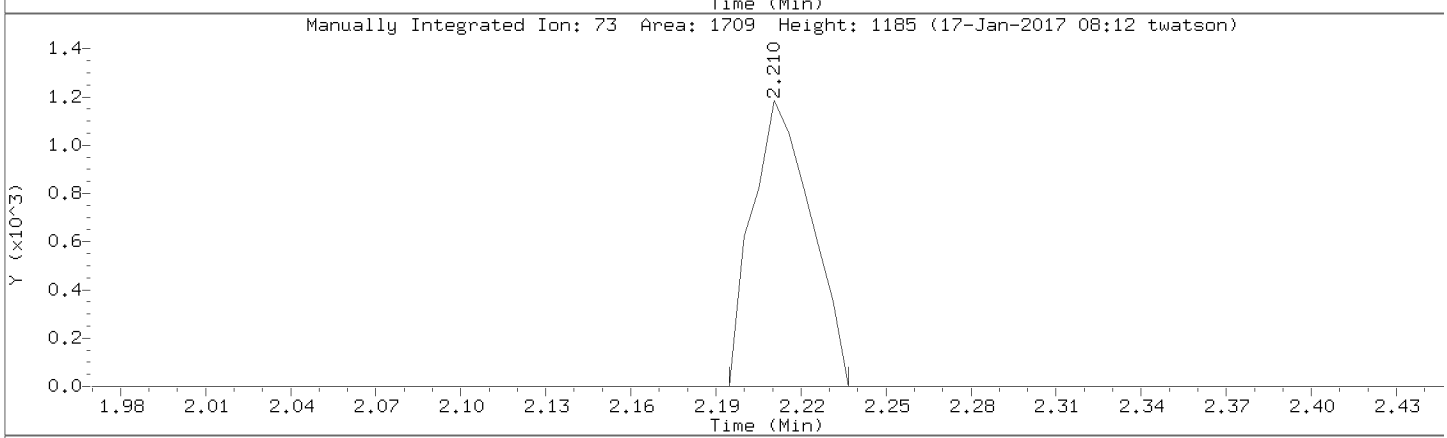
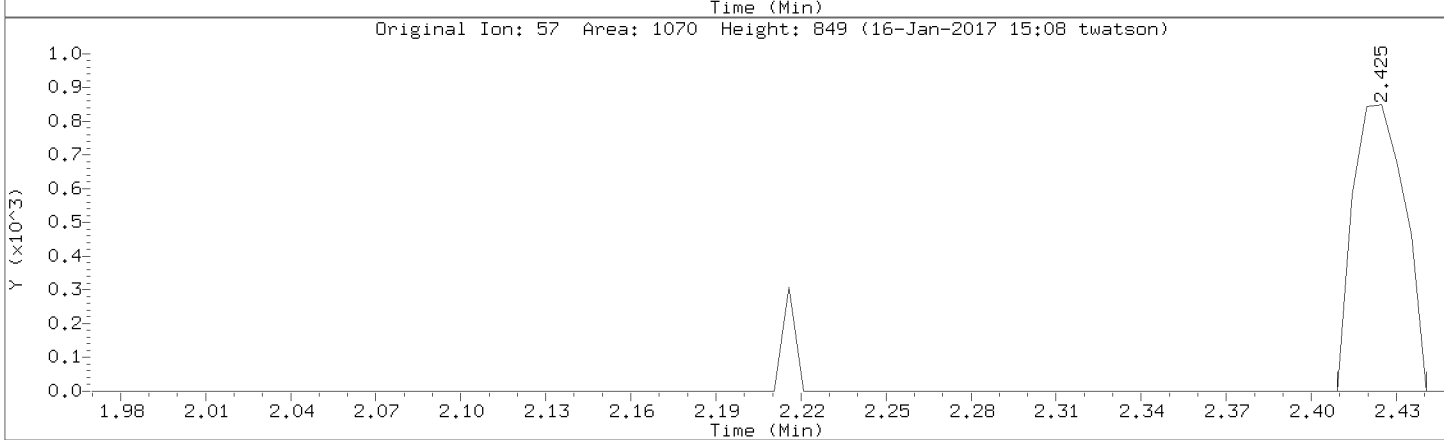
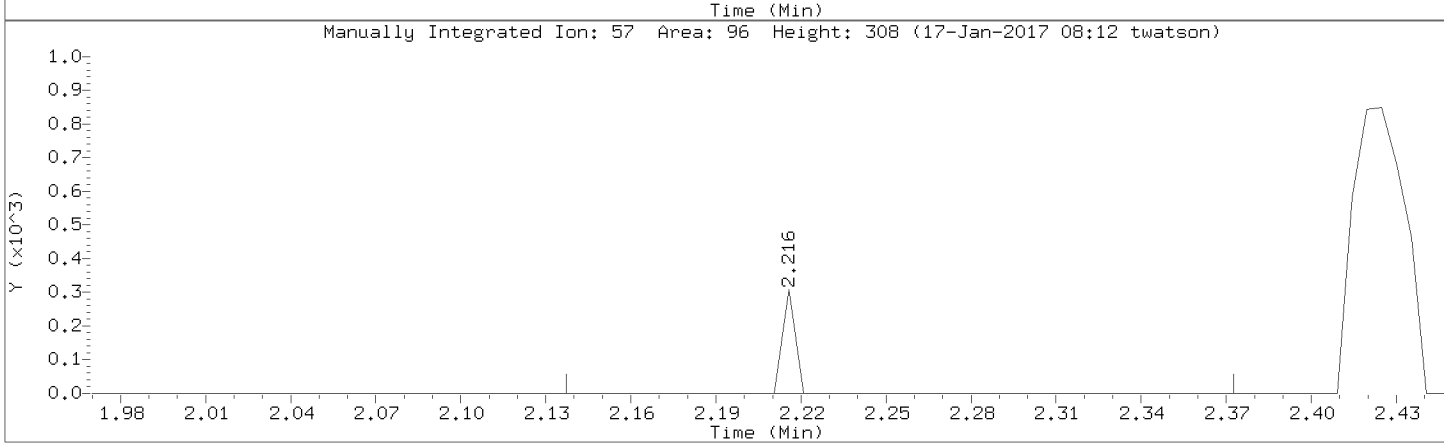
Injection Date: 16-JAN-2017 12:52
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL1,140014:0

Compound: Methyl-tert-butyl ether Review Code: WP
CAS Number: 1634-04-4









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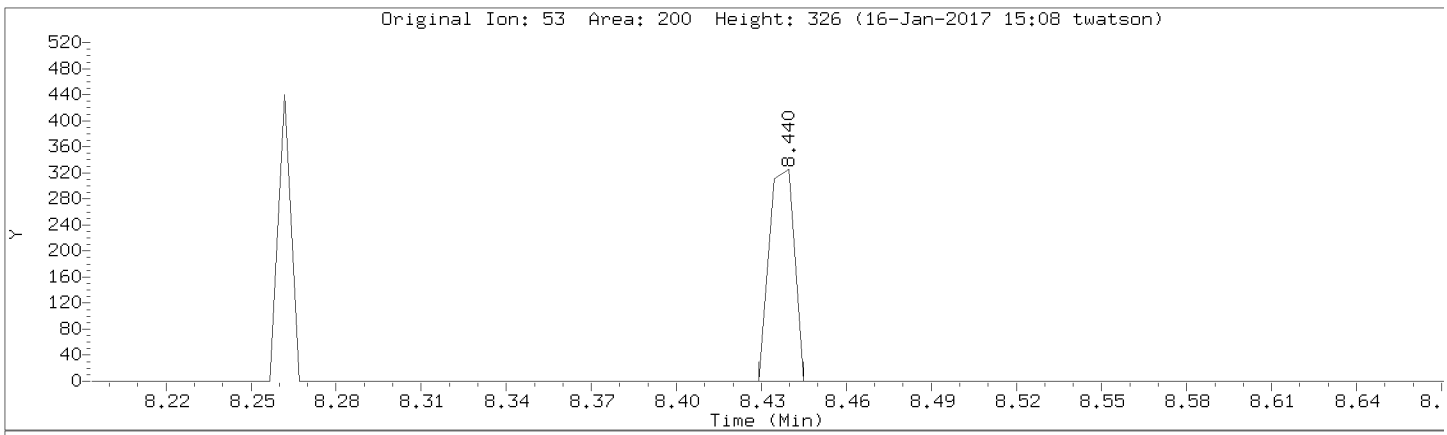
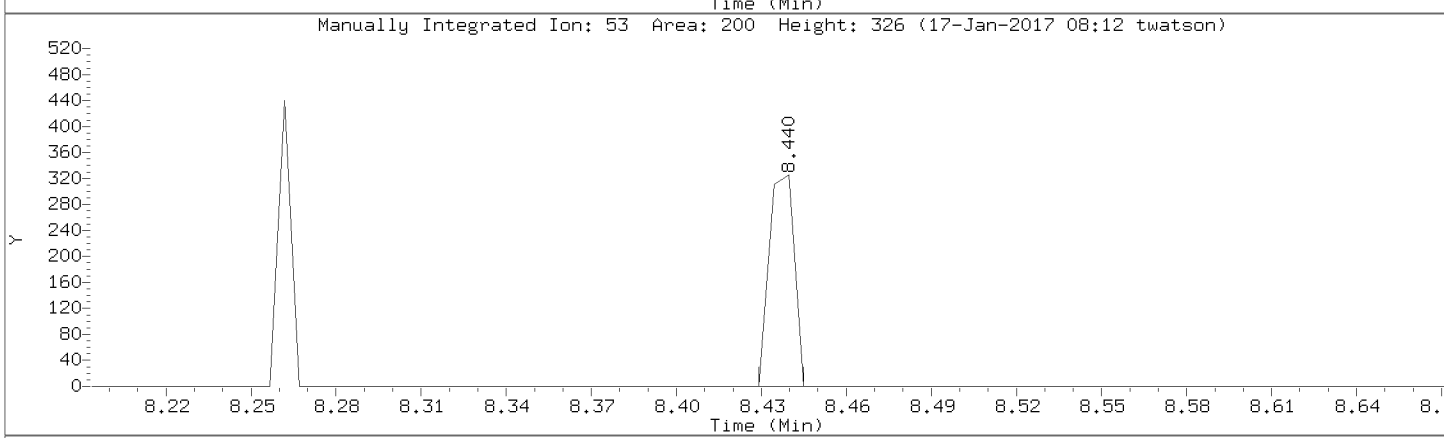
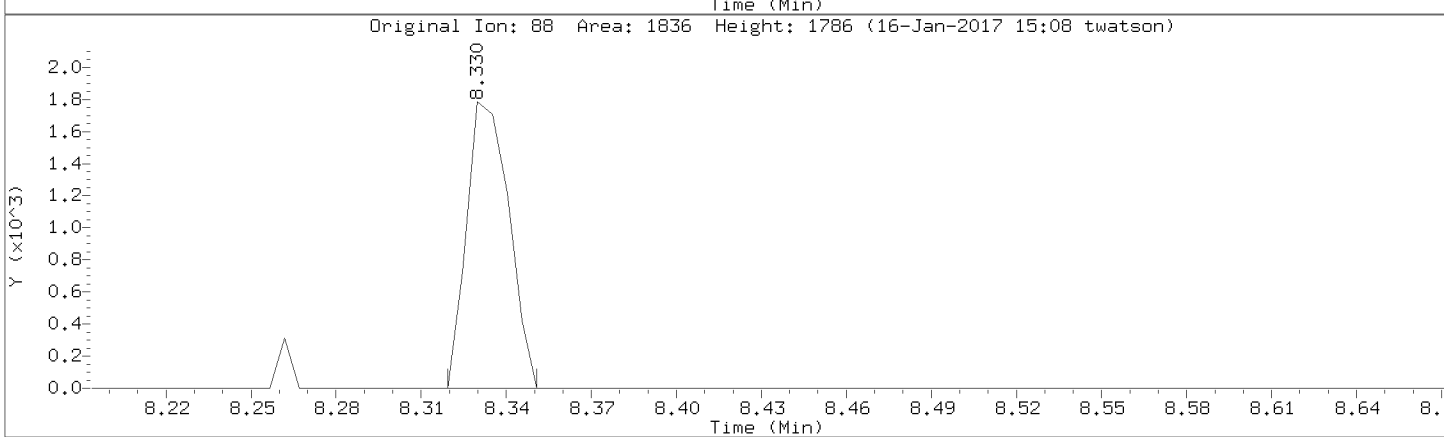
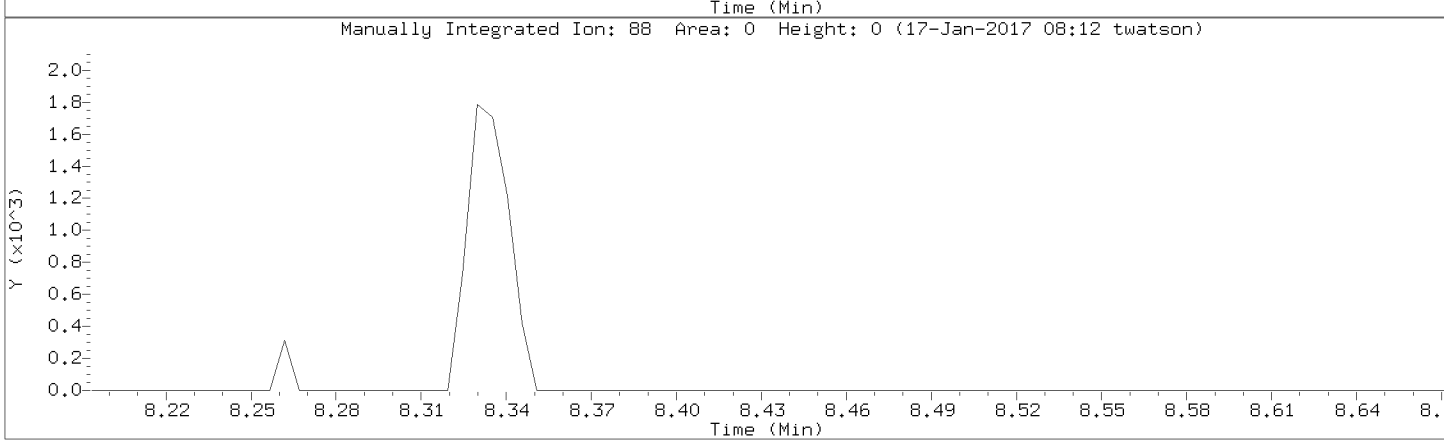
Injection Date: 16-JAN-2017 12:52
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL1,140014:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:









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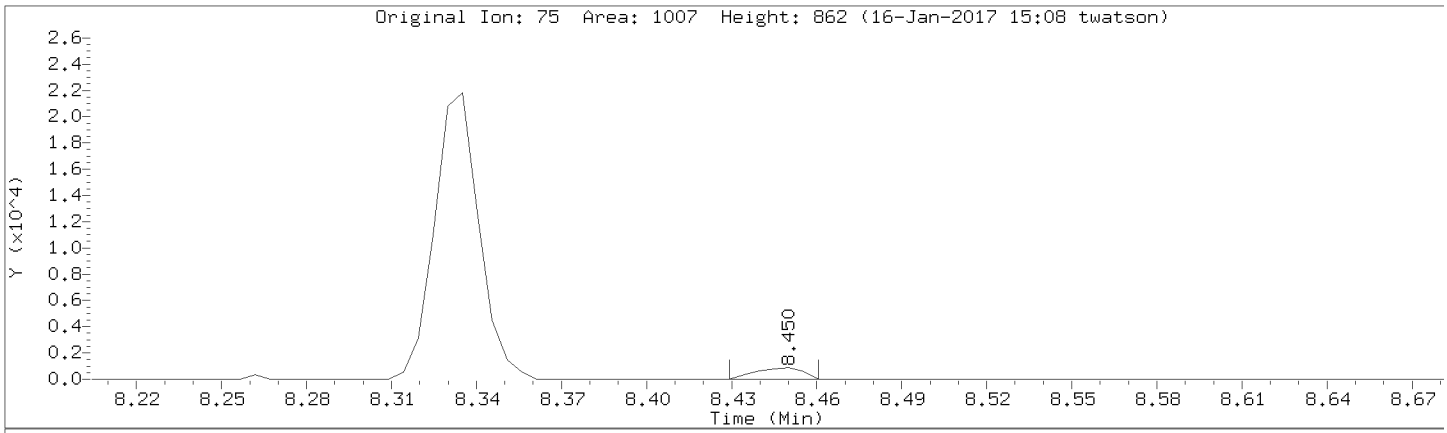
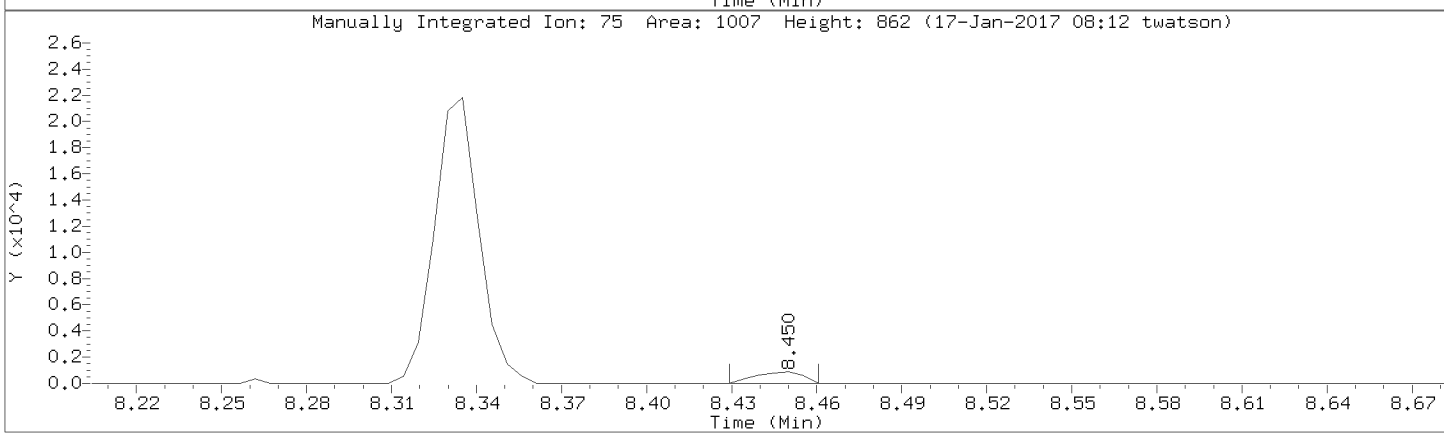
Lab Sample ID: 8260-CAL1,140014:0





Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a02cal2.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

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Inj Date : 16-JAN-2017 13:29
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal2,140015:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.018	1.023	(0.229)	422	2.00000	0.828(QM)	NI
2 Chloromethane	50	1.148	1.148	(0.259)	1435	2.00000	1.86(QM)	NI
3 Vinyl Chloride	62	1.159	1.159	(0.261)	792	2.00000	1.33(M)	WP
4 Bromomethane	94	1.316	1.316	(0.296)	254	2.00000	0.0211	
5 Chloroethane	64	1.363	1.363	(0.307)	390	2.00000	1.53(M)	NI
6 Trichlorofluoromethane	101	1.483	1.488	(0.334)	1137	2.00000	1.68	
7 Diethyl ether	74	1.614	1.619	(0.363)	560	2.00000	2.44	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.368)	1466	2.00000	2.24	
9 Acrolein	56	1.692	1.697	(0.381)	2341	40.0000	41.4	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.394)	1268	2.00000	2.22	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	1041	2.00000	2.13(Q)	
12 Acetone	43	1.760	1.771	(0.396)	2538	10.0000	15.4	
13 Iodomethane	142	1.849	1.854	(0.416)	1458	4.00000	3.01	
14 Carbon Disulfide	76	1.901	1.907	(0.428)	5368	2.00000	3.07	
20 Methyl Acetate	43	1.943	1.948	(0.437)	1002	2.00000	2.11(M)	NI
15 Acetonitrile	39	1.964	1.969	(0.442)	3485	2.00000	2.49	
16 allyl chloride	41	1.964	1.969	(0.442)	5036	4.00000	4.66	
17 Methylene Chloride	84	2.043	2.048	(0.460)	1363	2.00000	2.50(Q)	
19 Acrylonitrile	53	2.184	2.189	(0.492)	1818	8.00000	8.80	
21 Methyl-tert-butyl ether	73	2.210	2.220	(0.497)	3388	2.00000	2.28	
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	1114	2.00000	2.10	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a02cal2.d
Report Date: 17-Jan-2017 17:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	23 n-Hexane	57	2.424	2.430	(0.546)	2188	2.00000	2.10(M)	NI
	25 Vinyl Acetate	43	2.540	2.545	(0.572)	10152	8.00000	8.04	
	26 1,1-Dichloroethane	63	2.555	2.560	(0.575)	2490	2.00000	2.24(M)	NI
	28 Chloroprene	53	2.613	2.623	(0.588)	2252	2.00000	2.28(M)	NI
	29 2-Butanone	43	3.036	3.047	(0.683)	3796	10.0000	17.0(M)	NI
	30 1,2-Dichloroethene (cis)	96	3.063	3.073	(0.689)	1175	2.00000	1.99(Q)	
	31 2,2-Dichloropropane	77	3.068	3.078	(0.690)	1694	2.00000	2.06(M)	NI
	38 Methacrylonitrile	41	3.256	3.266	(0.733)	597	2.00000	1.69(QM)	NI
	33 Bromochloromethane	49	3.314	3.324	(0.746)	1238	2.00000	2.24(QM)	NI
	35 Chloroform	83	3.434	3.444	(0.773)	2537	2.00000	2.42	
	36 1,1,1-Trichloroethane	97	3.622	3.633	(0.815)	1865	2.00000	2.13	
$	37 Dibromofluoromethane (S)	113	3.622	3.627	(0.815)	29675	50.0000	51.4	
	39 Cyclohexane	56	3.706	3.727	(0.834)	2974	2.00000	2.56	
	151 n-butyl chloride	56	3.779	3.789	(0.851)	2781	2.00000	2.06	
	40 Carbon Tetrachloride	117	3.821	3.831	(0.860)	1441	2.00000	1.94(M)	NI
	41 1,1-Dichloropropene	75	3.826	3.831	(0.861)	1604	2.00000	1.99(QM)	NI
	42 Benzene	78	4.067	4.077	(0.915)	5324	2.00000	2.19	
	43 1,2-Dichloroethane	62	4.145	4.161	(0.933)	1825	2.00000	2.33(M)	NI
	24 Isobutyl alcohol	43	4.161	4.171	(0.936)	12008	2.00000	2.48	
	44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.952)	5821	2.00000	2.23	
*	46 Fluorobenzene (IS)	96	4.443	4.454	(1.000)	115351	50.0000		
	47 Trichloroethene	95	4.883	4.893	(1.099)	1284	2.00000	2.09	
	48 Methylcyclohexane	55	5.149	5.155	(1.159)	2124	2.00000	2.09	
	49 1,2-Dichloropropane	63	5.181	5.191	(1.166)	1423	2.00000	2.12(M)	NI
	50 Dibromomethane	93	5.275	5.285	(1.187)	662	2.00000	1.89	
	52 Methyl methacrylate	69	5.275	5.285	(1.187)	368	2.00000	1.07(QM)	NI
	53 Bromodichloromethane	83	5.489	5.500	(1.235)	1877	2.00000	2.23(M)	NI
	54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	1437	4.00000	4.05(M)	NI
	55 cis-1,3-Dichloropropene	75	5.976	5.986	(0.794)	2259	2.00000	2.17	
	56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	8188	10.0000	11.9	
$	57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	120139	50.0000	51.4	
	58 Toluene	91	6.326	6.331	(0.841)	7230	2.00000	2.59	
	59 trans-1,3-Dichloropropene	75	6.588	6.598	(0.876)	1863	2.00000	2.09	
	60 Ethyl Methacrylate	69	6.656	6.661	(0.885)	1576	2.00000	2.20(M)	NI
	61 1,1,2-Trichloroethane	83	6.766	6.776	(0.899)	998	2.00000	2.22	
	62 Tetrachloroethene	166	6.818	6.828	(0.906)	1614	2.00000	2.16	
	63 1,3-Dichloropropane	76	6.902	6.907	(0.917)	2217	2.00000	2.41	
	64 2-Hexanone	43	6.954	6.959	(0.924)	6021	10.0000	11.9	
	65 Dibromochloromethane	129	7.079	7.090	(0.941)	1392	2.00000	2.12	
	66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	1112	2.00000	2.02	
*	67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	96322	50.0000		
	68 Chlorobenzene	112	7.545	7.555	(1.003)	4594	2.00000	2.42	
	69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	1559	2.00000	2.25	
	70 Ethylbenzene	106	7.623	7.628	(1.013)	2349	2.00000	2.22	
	71 m&p-Xylene	106	7.717	7.728	(1.026)	6127	4.00000	4.90	
	72 o-Xylene	106	7.979	7.984	(1.060)	2942	2.00000	2.25	
	73 Styrene	104	7.995	8.000	(1.063)	5056	2.00000	2.22	
	74 Bromoform	173	8.120	8.125	(0.901)	1002	2.00000	2.13(M)	NI
	75 Isopropylbenzene	105	8.220	8.225	(1.092)	8163	2.00000	2.28	
$	76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	49812	50.0000	50.8	
	77 Bromobenzene	77	8.413	8.418	(1.118)	3591	2.00000	2.53	
	78 1,1,2,2-Tetrachloroethane	83	8.418	8.423	(0.934)	1851	2.00000	2.28(M)	NI
	79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	441	2.00000	1.94(QM)	WP
	80 1,2,3-Trichloropropane	110	8.450	8.455	(0.938)	381	2.00000	1.94(Q)	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a02cal2.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
81 n-Propylbenzene	91	8.476	8.481	(0.941)	10144	2.00000	2.37	
82 2-Chlorotoluene	91	8.528	8.538	(0.947)	6030	2.00000	2.39	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	7300	2.00000	2.40	
84 4-Chlorotoluene	126	8.607	8.612	(0.955)	2220	2.00000	2.52(Q)	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	6227	2.00000	2.35	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	7821	2.00000	2.46	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	9689	2.00000	2.28	
88 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	4077	2.00000	2.35	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	7973	2.00000	2.36	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	57798	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	4216	2.00000	2.39	
92 n-Butylbenzene	91	9.192	9.203	(1.020)	7592	2.00000	2.30	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	4071	2.00000	2.40	
94 1,2-Dibromo-3-chloropropane	155	9.621	9.632	(1.068)	96	2.00000	0.648(QM)	NI
95 1,2,4-Trichlorobenzene	180	10.040	10.050	(1.114)	3111	2.00000	2.34	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	1657	2.00000	2.08	
97 Naphthalene	128	10.191	10.196	(1.131)	6621	2.00000	2.21	
98 1,2,3-Trichlorobenzene	180	10.306	10.317	(1.144)	2783	2.00000	2.11	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	3235	2.00000	2.38	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	2755	2.00000	2.25	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.
:

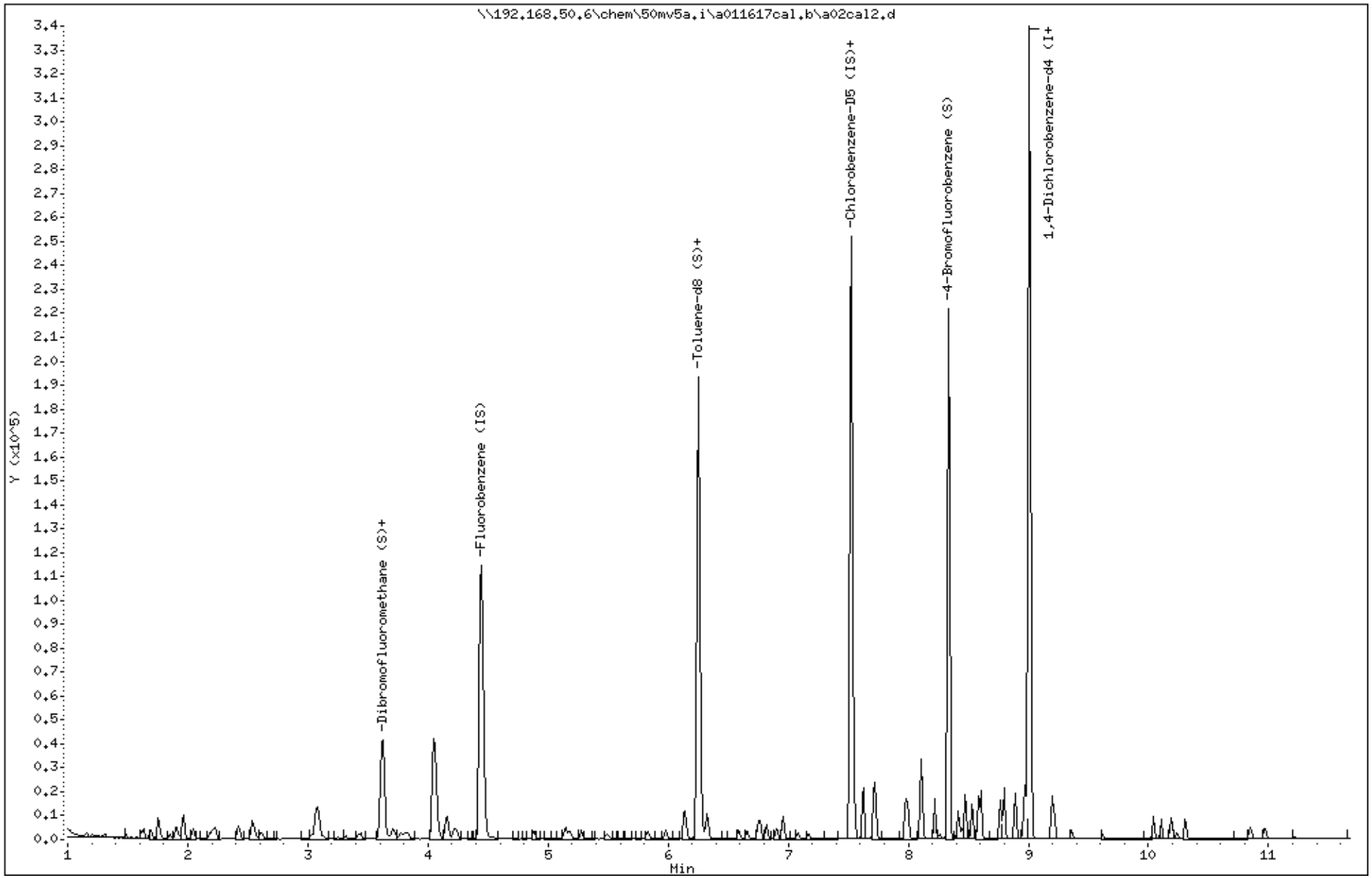
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a02cal2.d
Date : 16-JAN-2017 13:29
Client ID: 8260-CAL2,140015:0
Sample Info: 8260-CAL2,140015:0

Column phase: DB-624

Instrument: 50mv5a.i

Operator: TMW

Column diameter: 0.18



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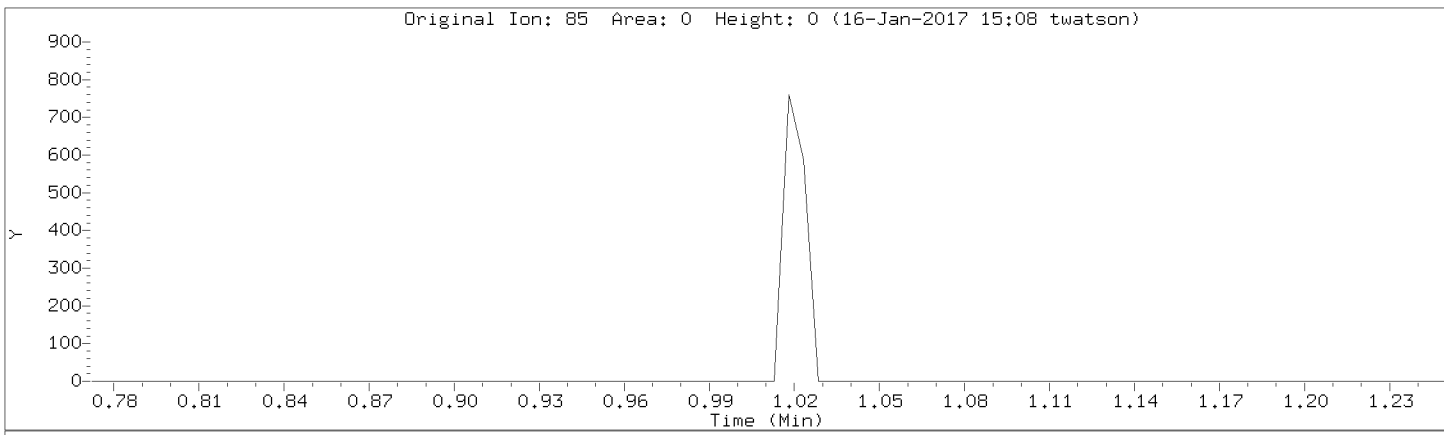
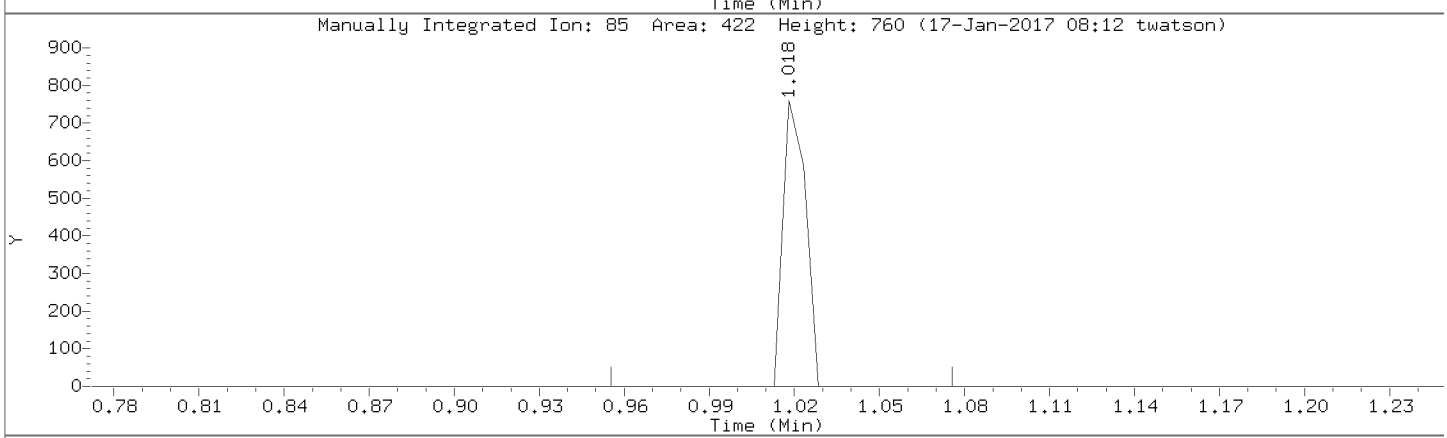
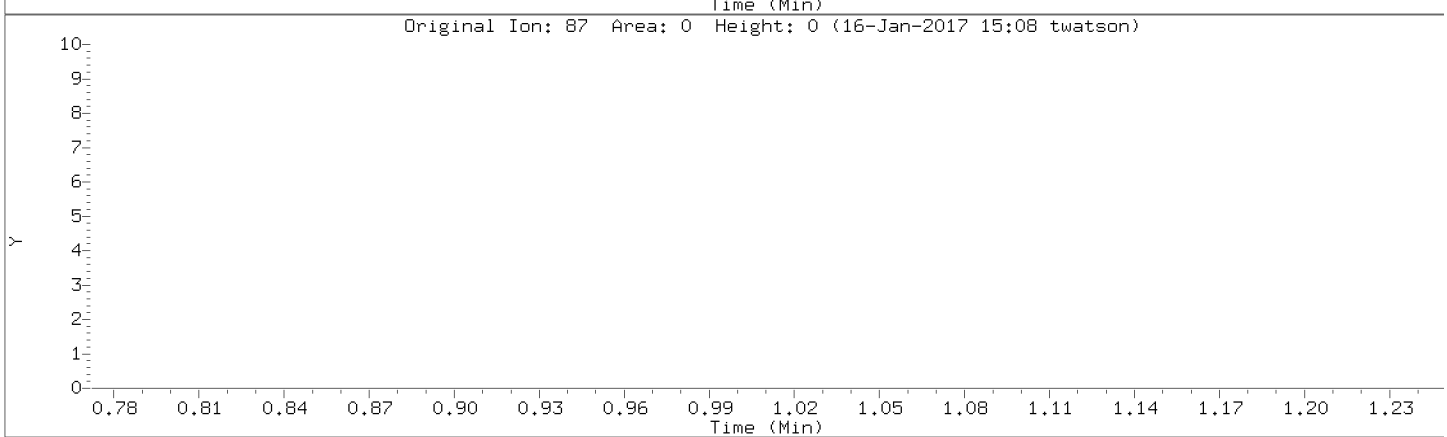
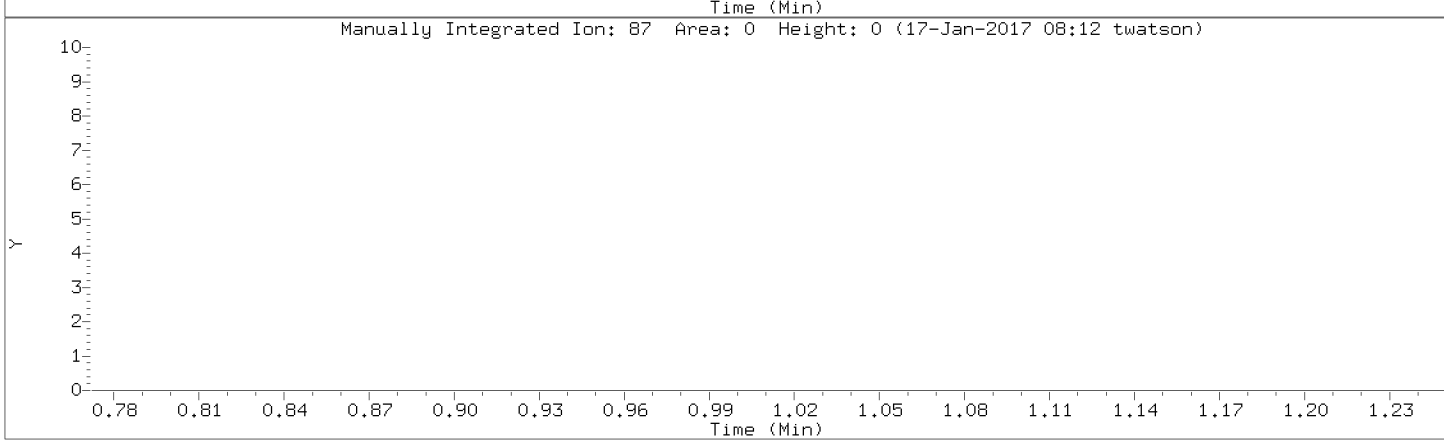
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8









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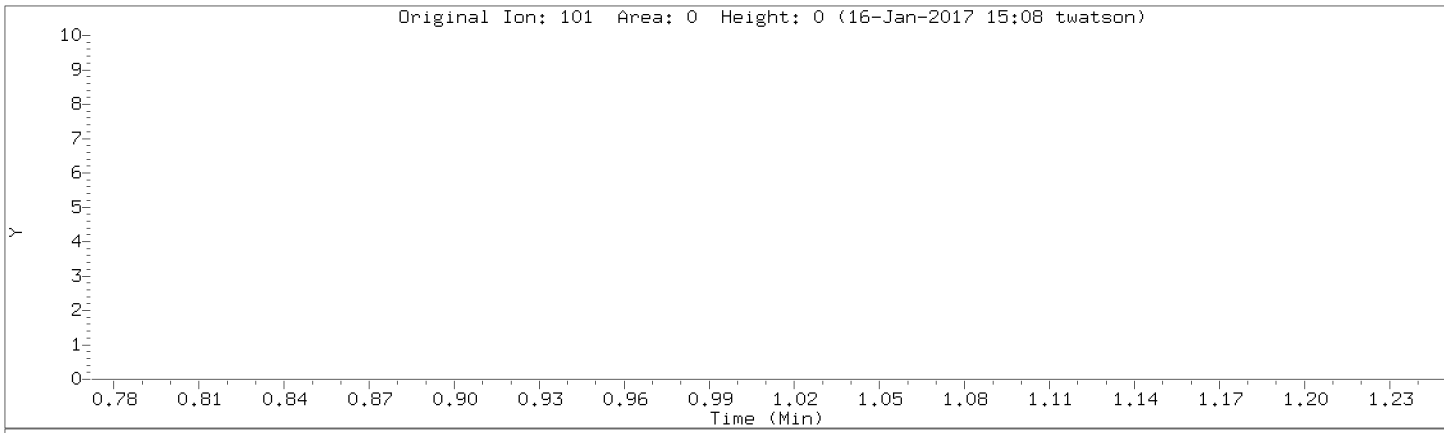
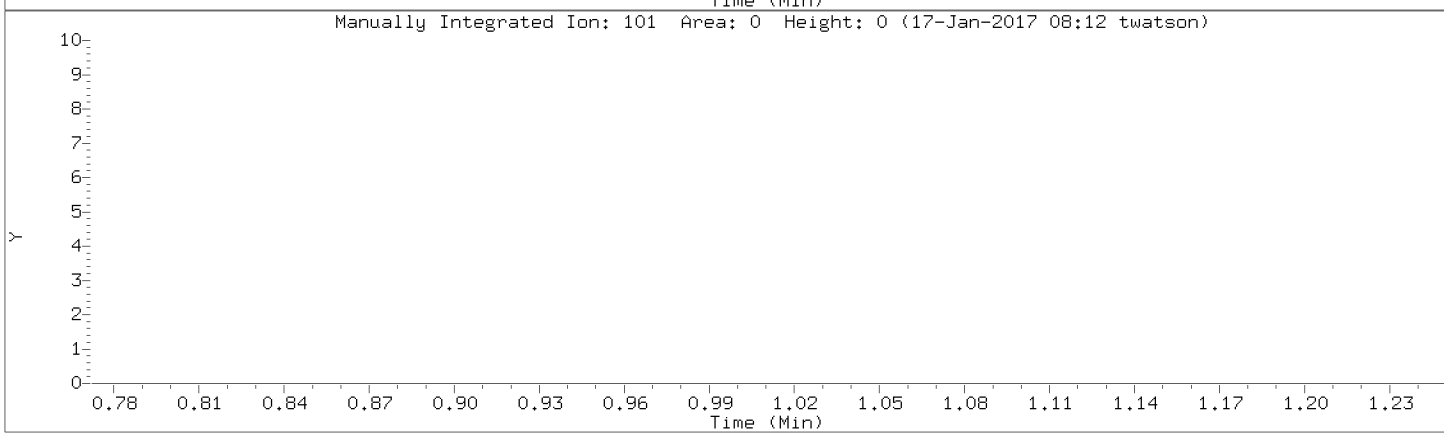
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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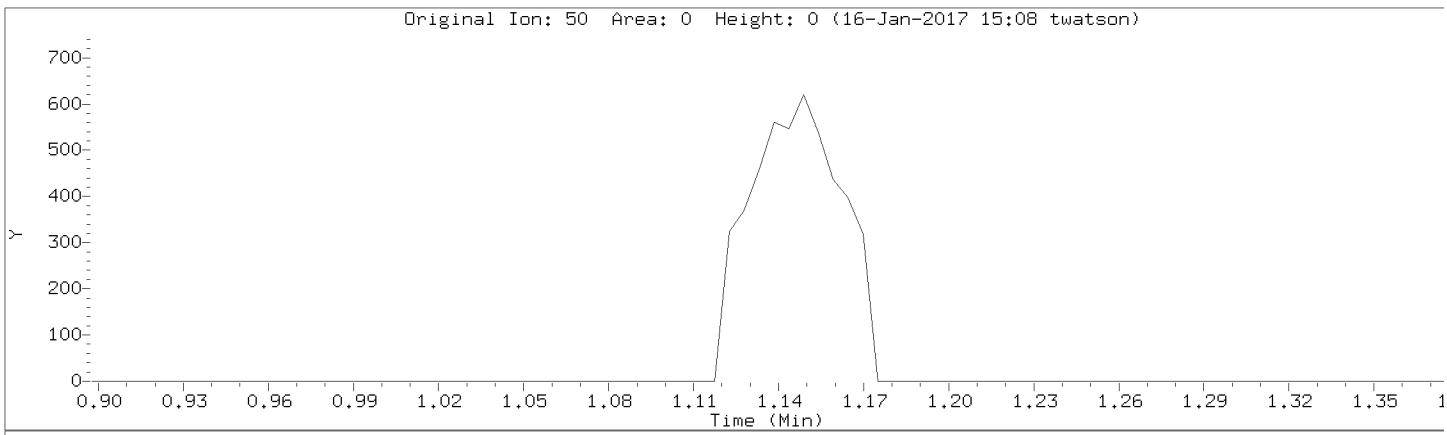
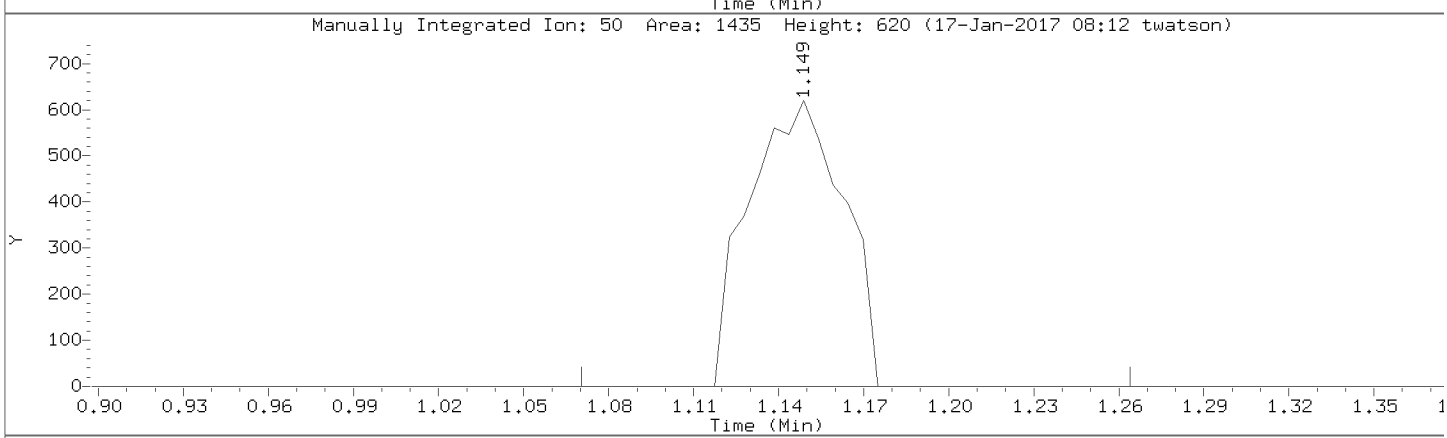
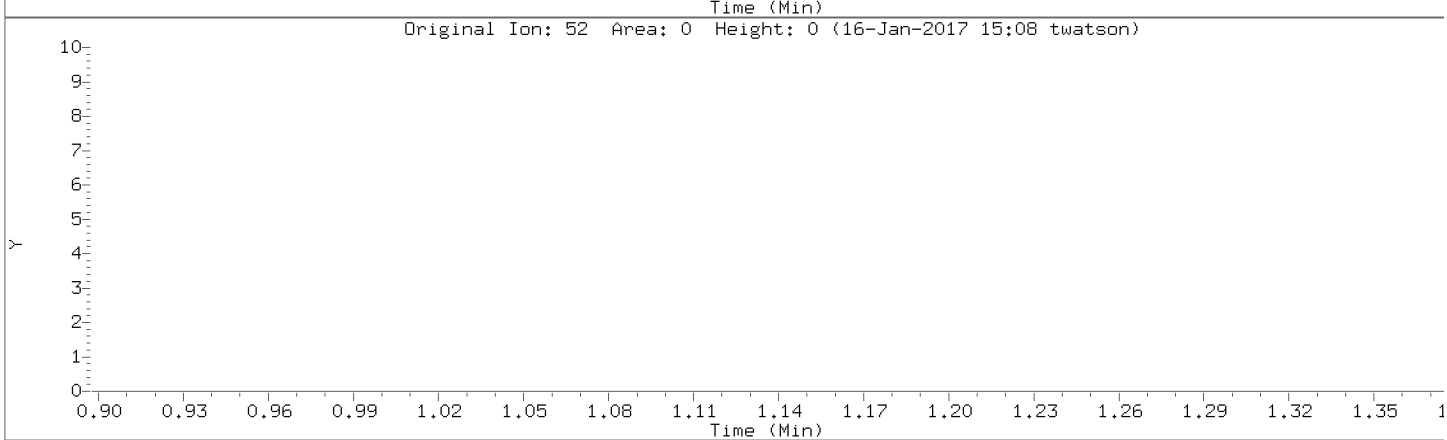
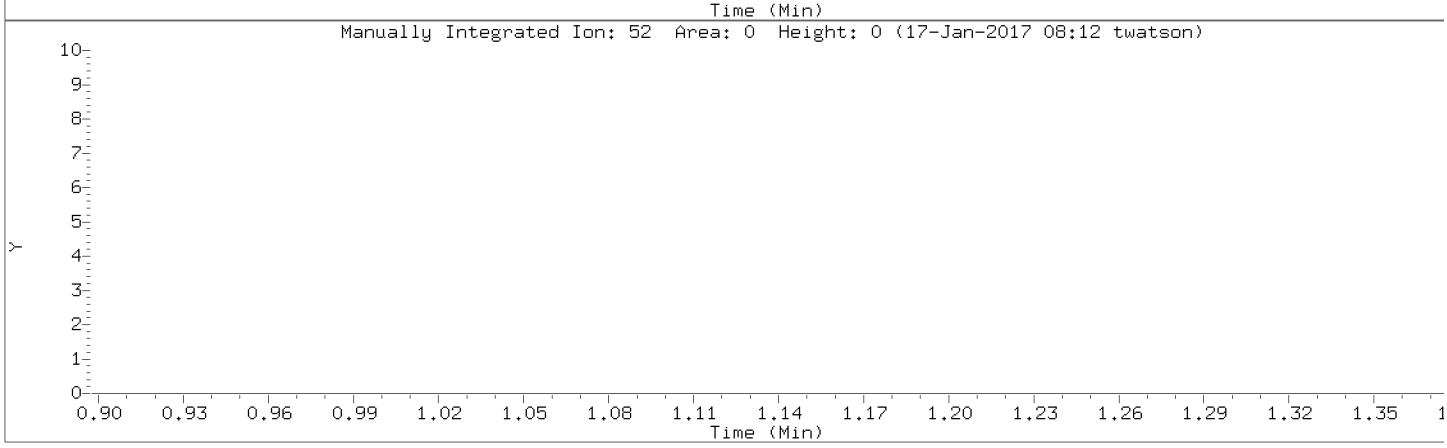
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Chloromethane Review Code: NI
CAS Number: 74-87-3









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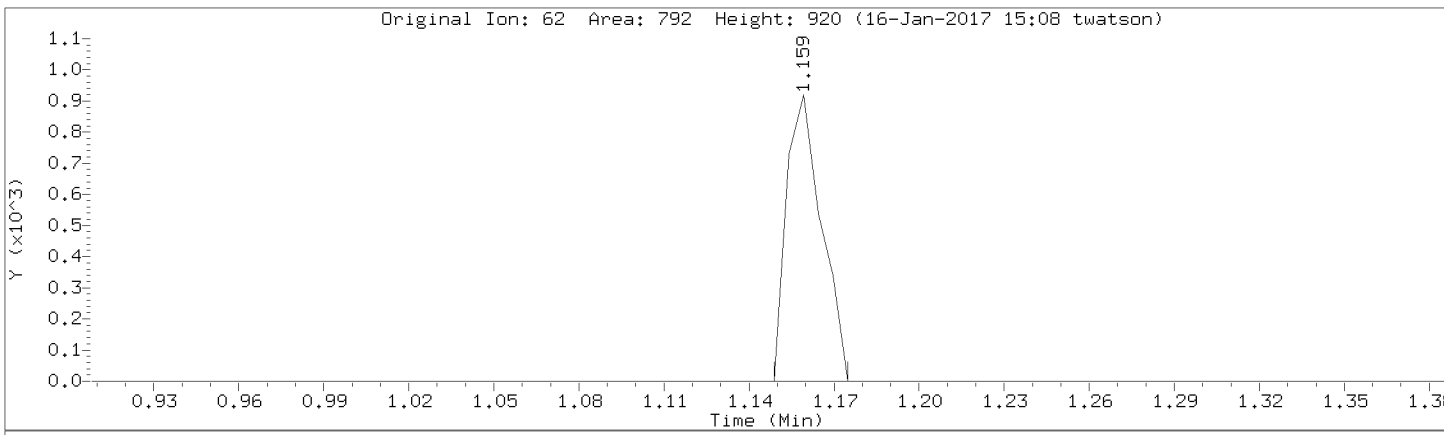
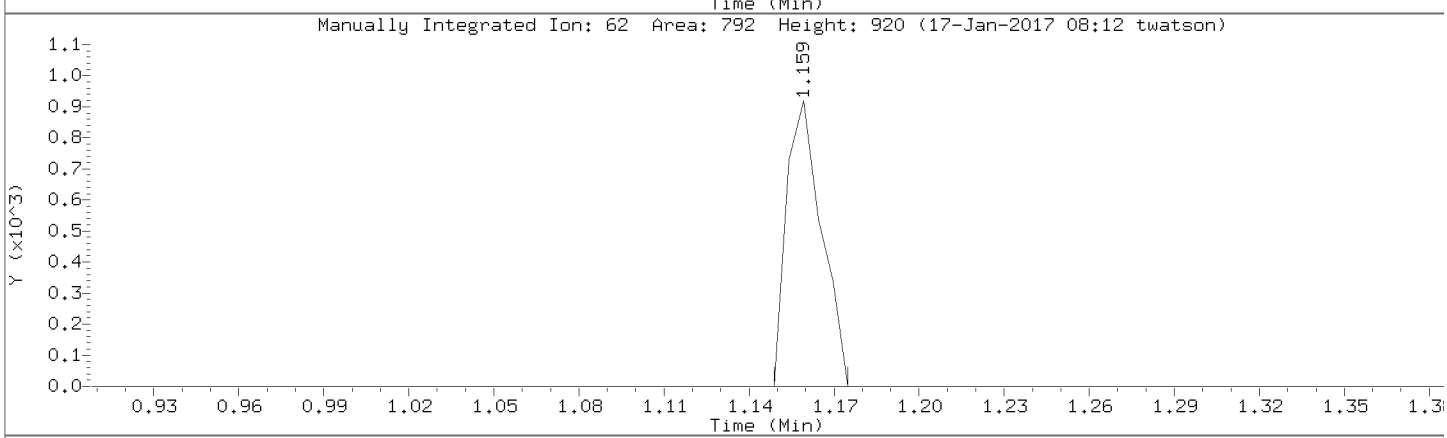
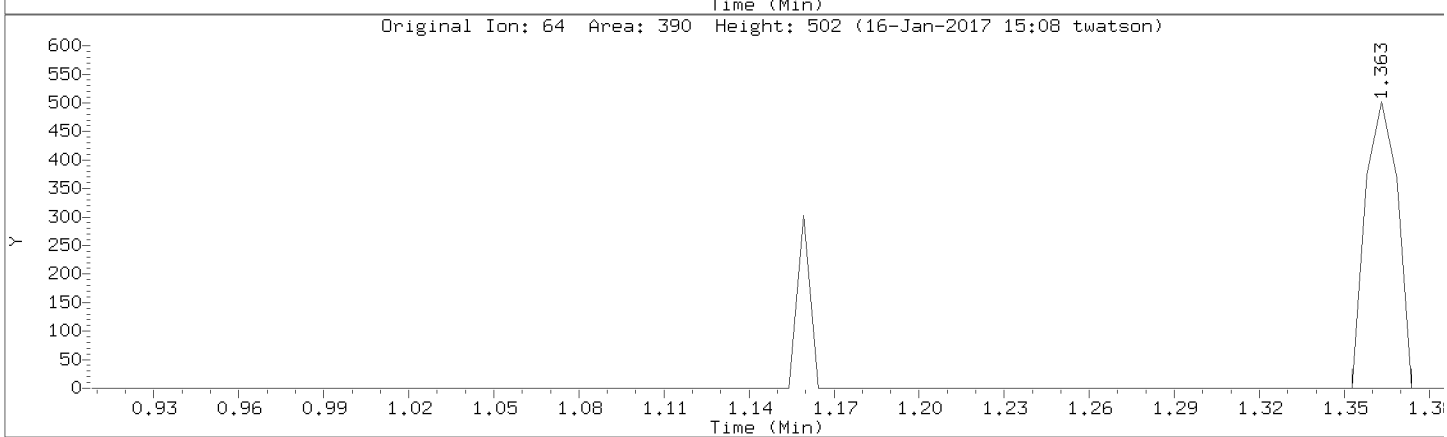
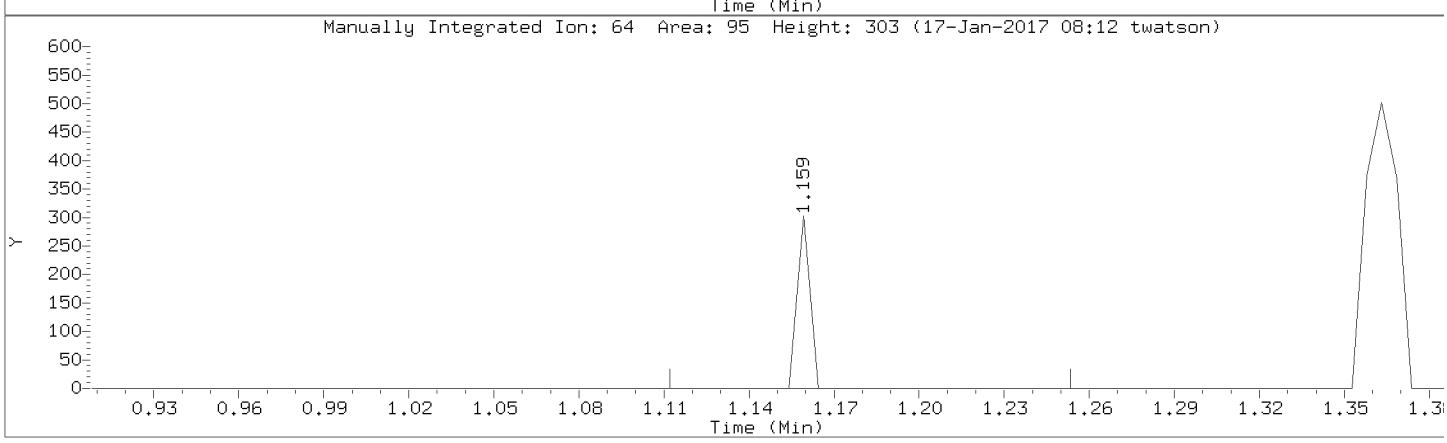
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Vinyl Chloride Review Code: WP
CAS Number: 75-01-4









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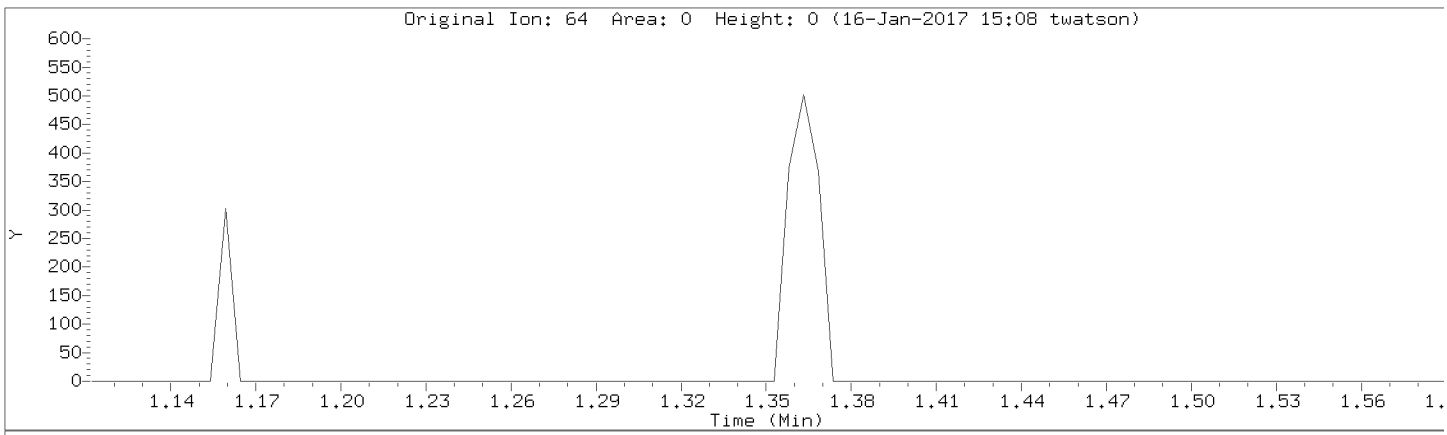
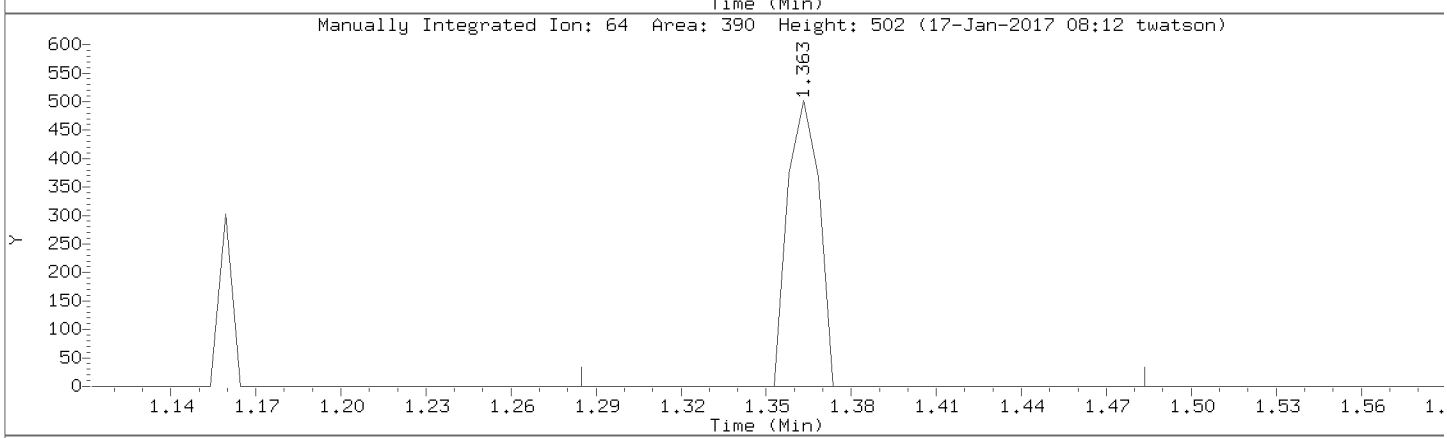
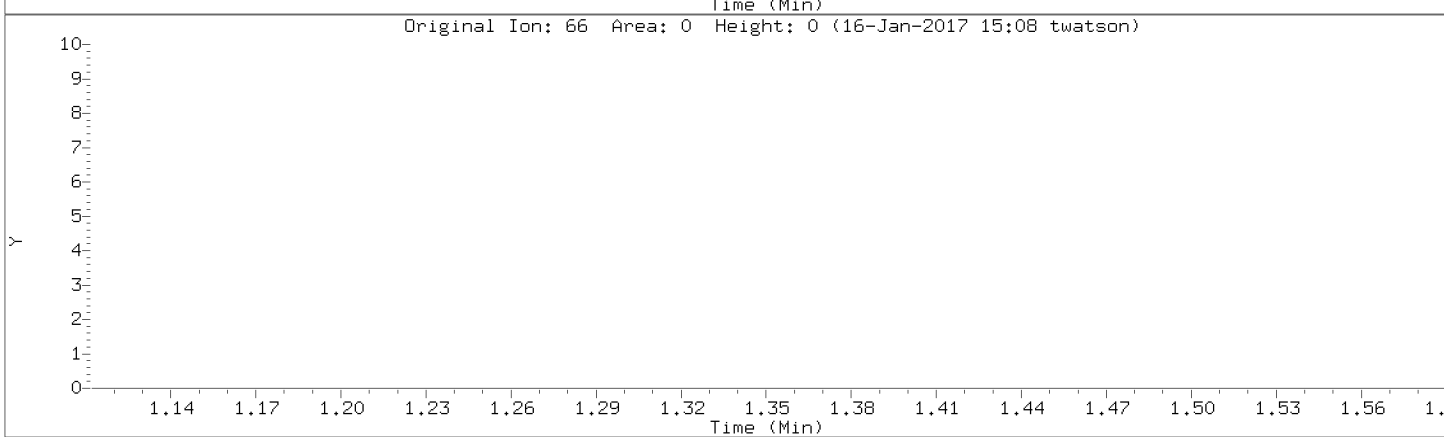
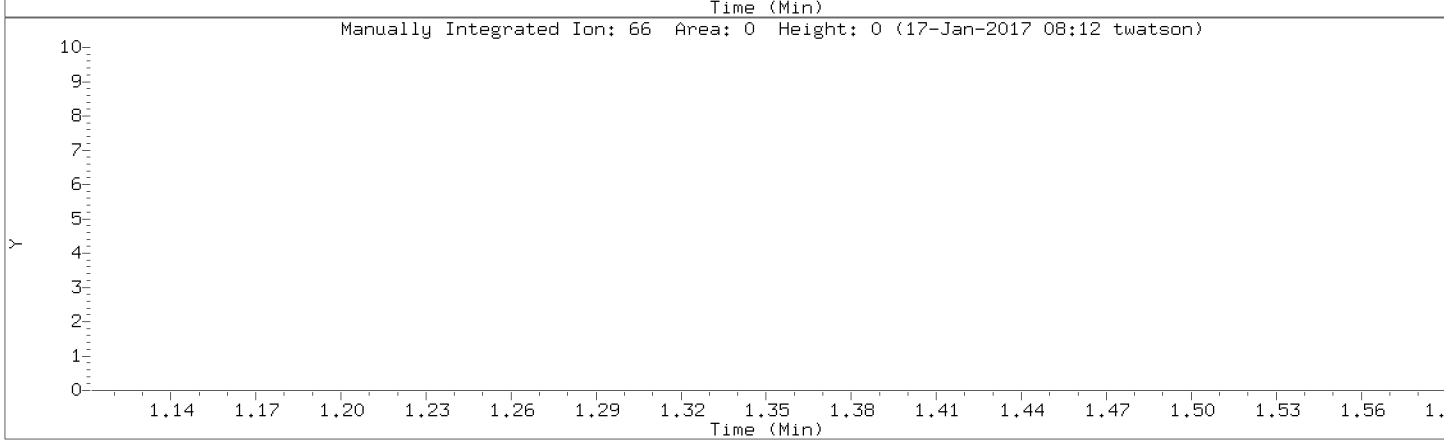
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Chloroethane Review Code: NI
CAS Number: 75-00-3









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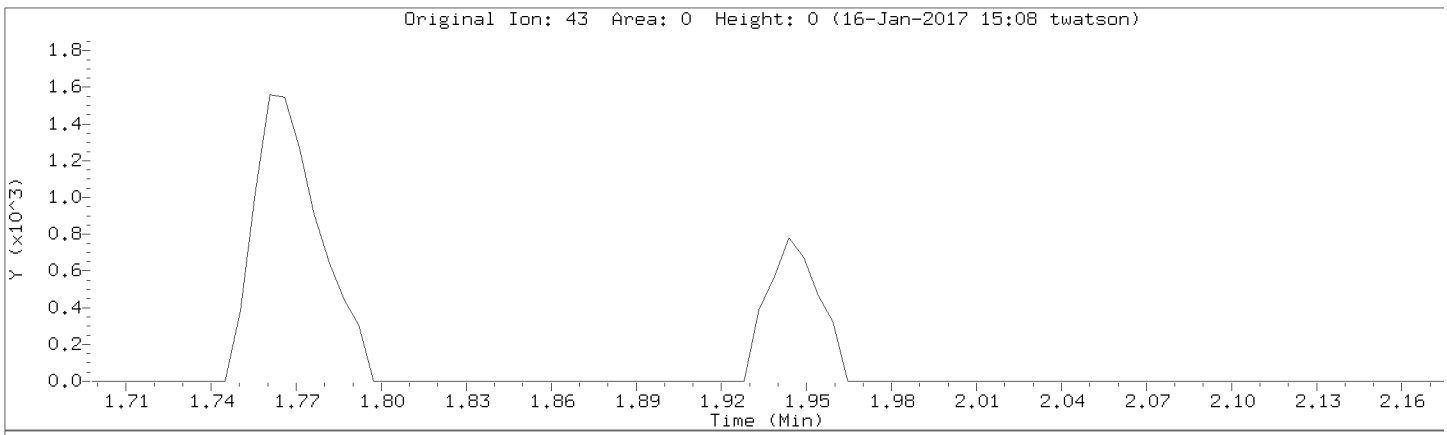
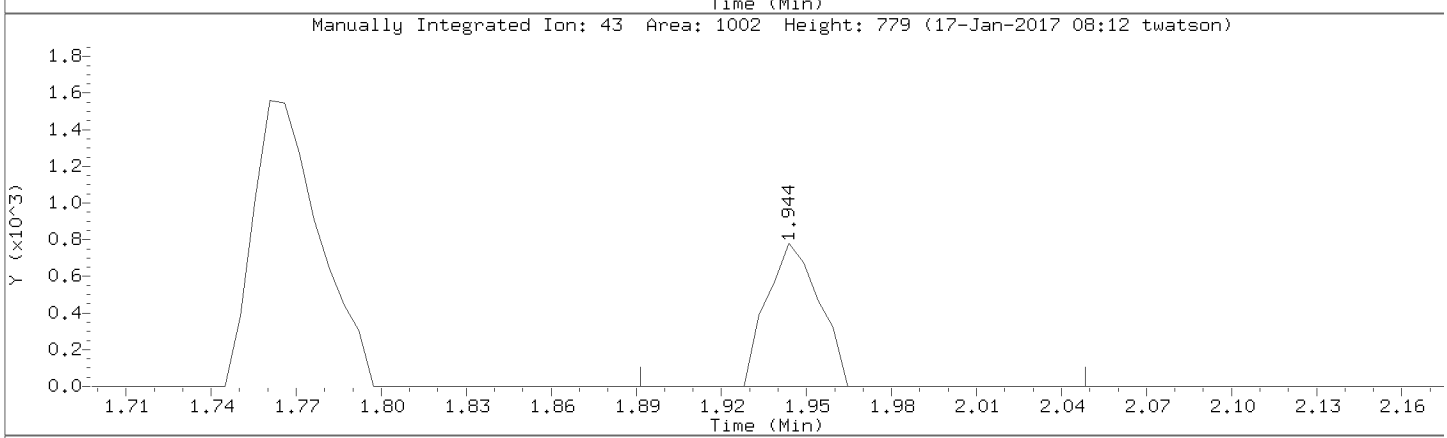
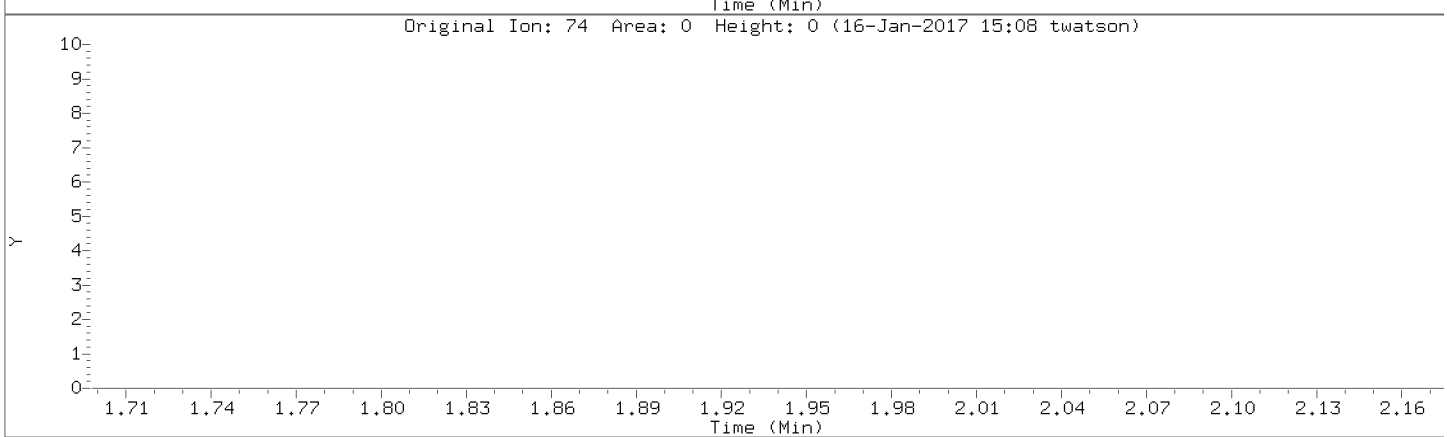
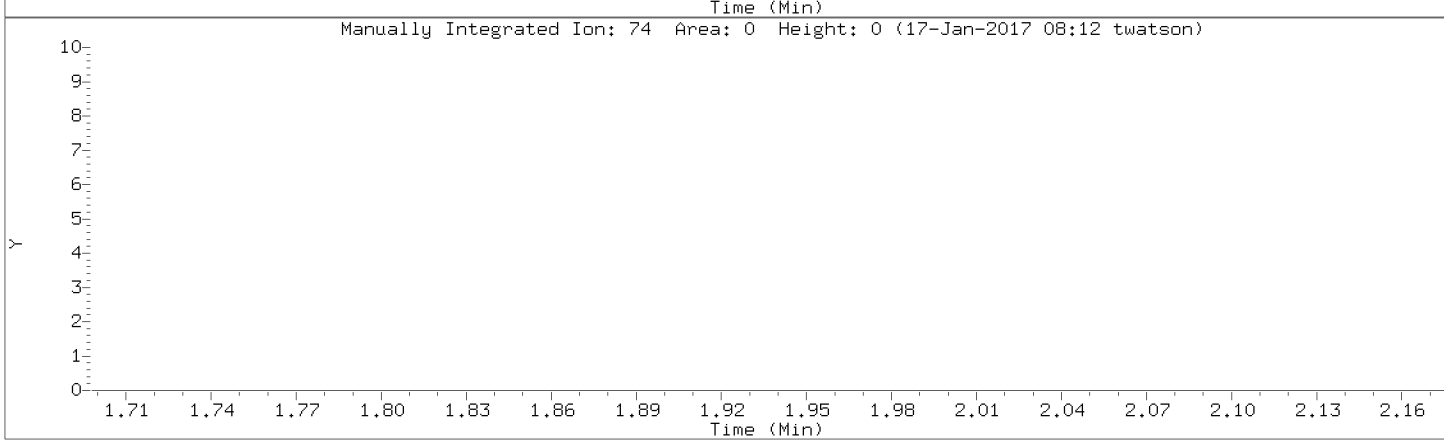
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9









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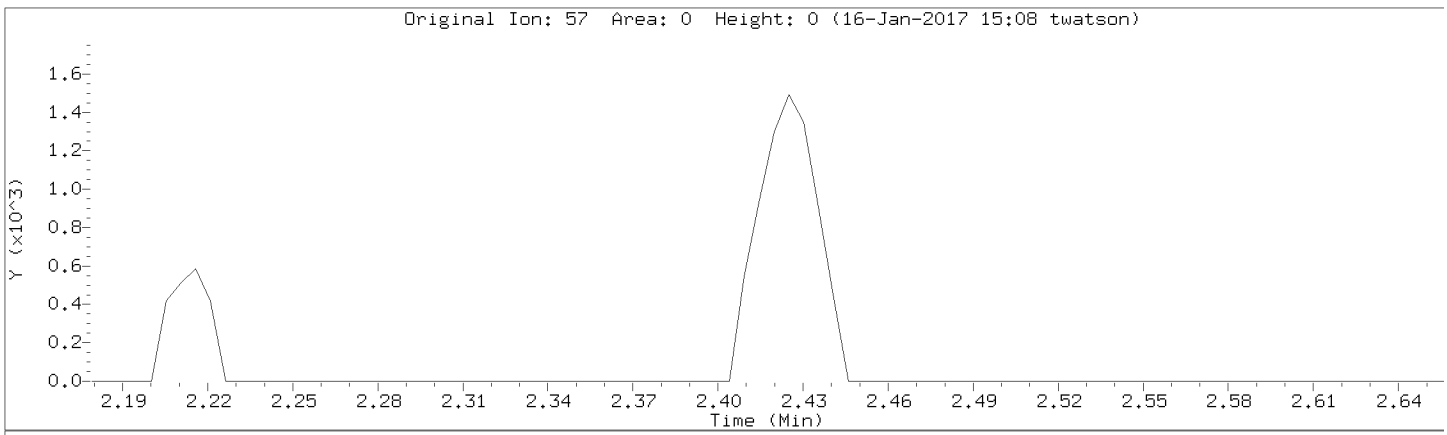
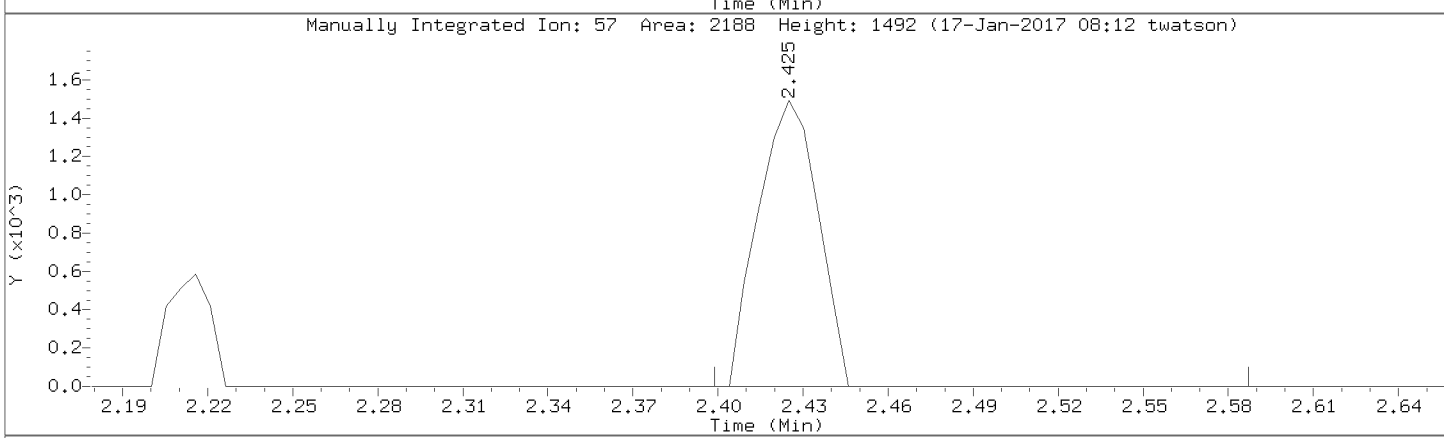
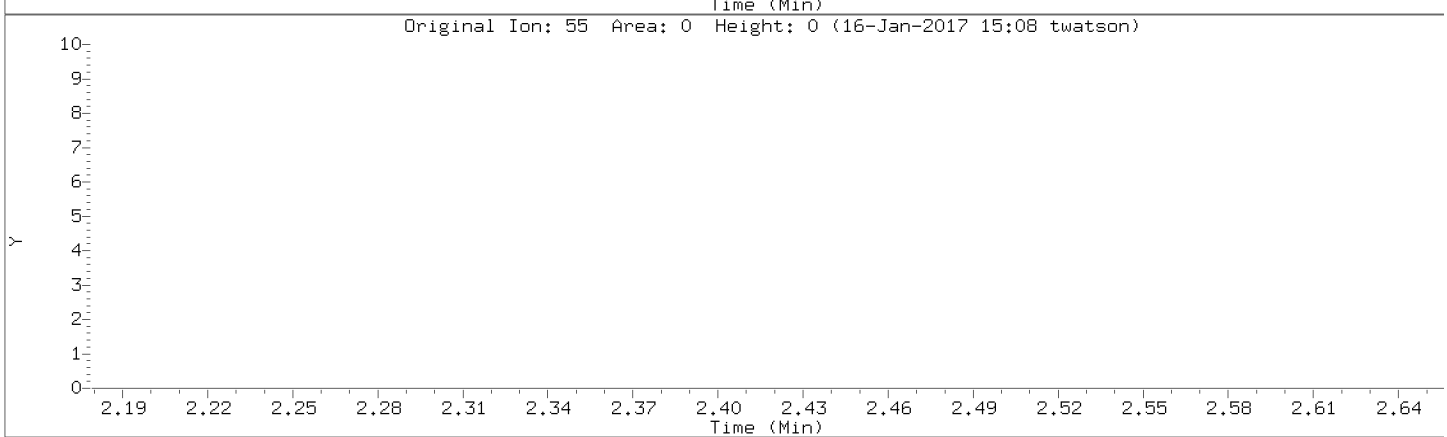
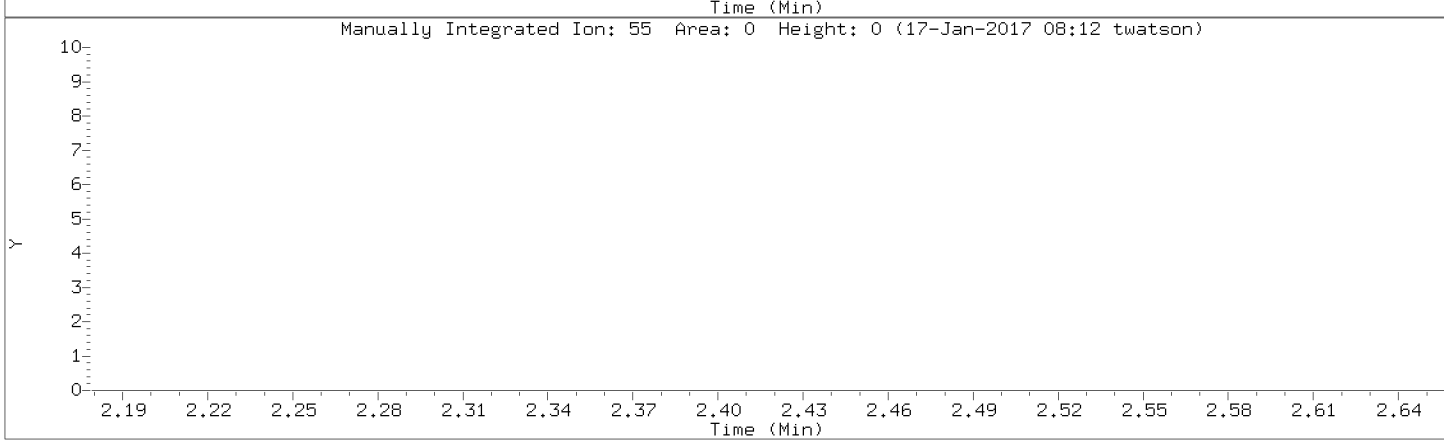
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: n-Hexane Review Code: NI
CAS Number:









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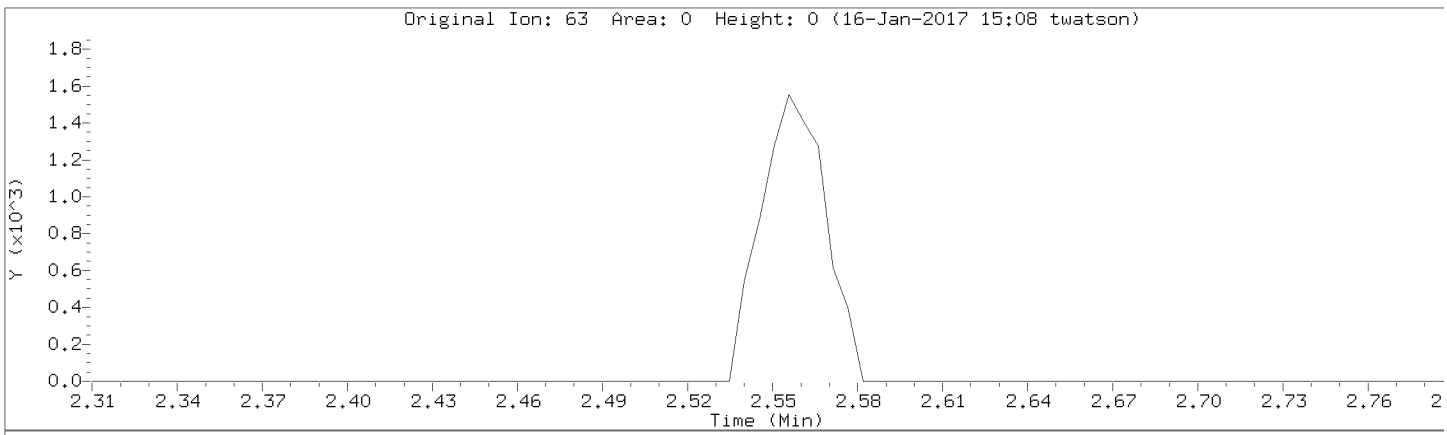
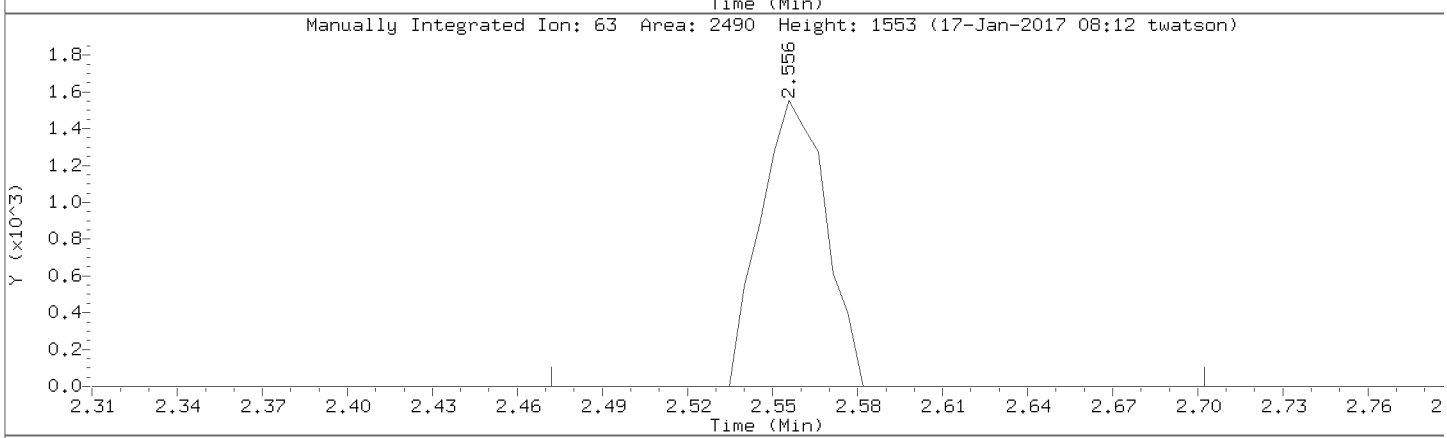
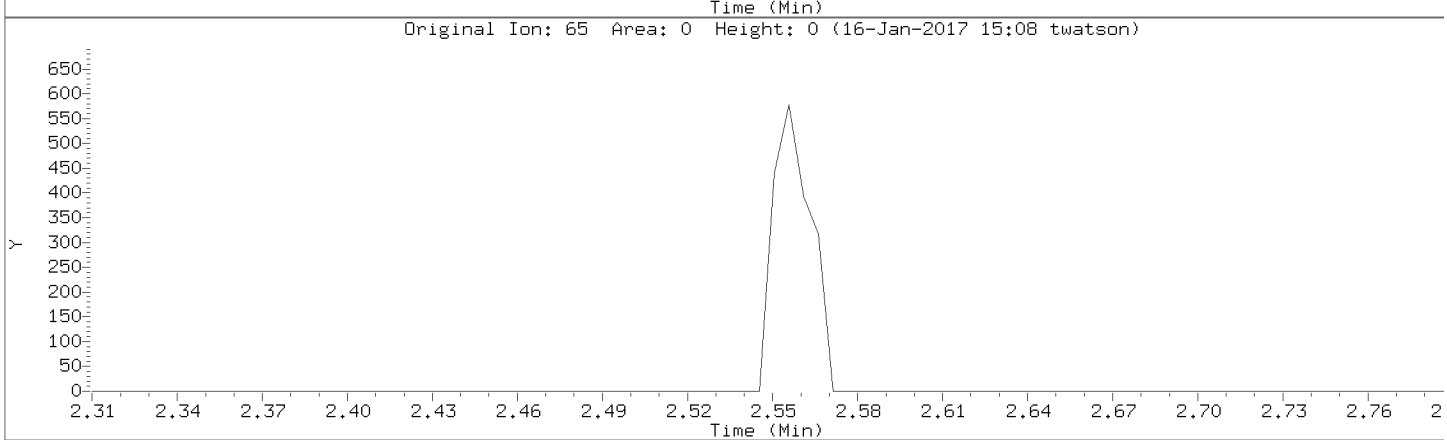
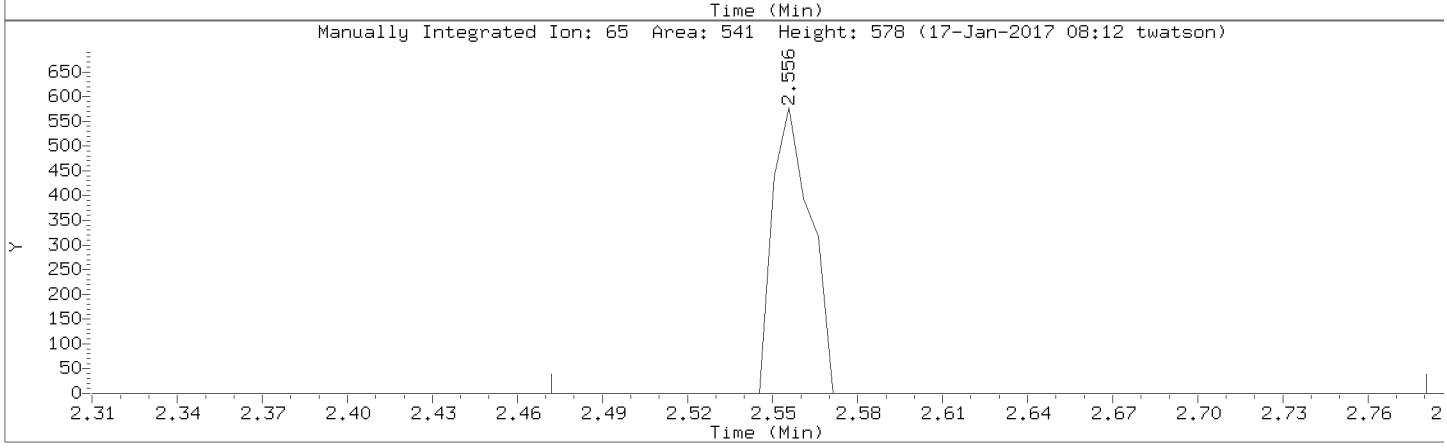
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3









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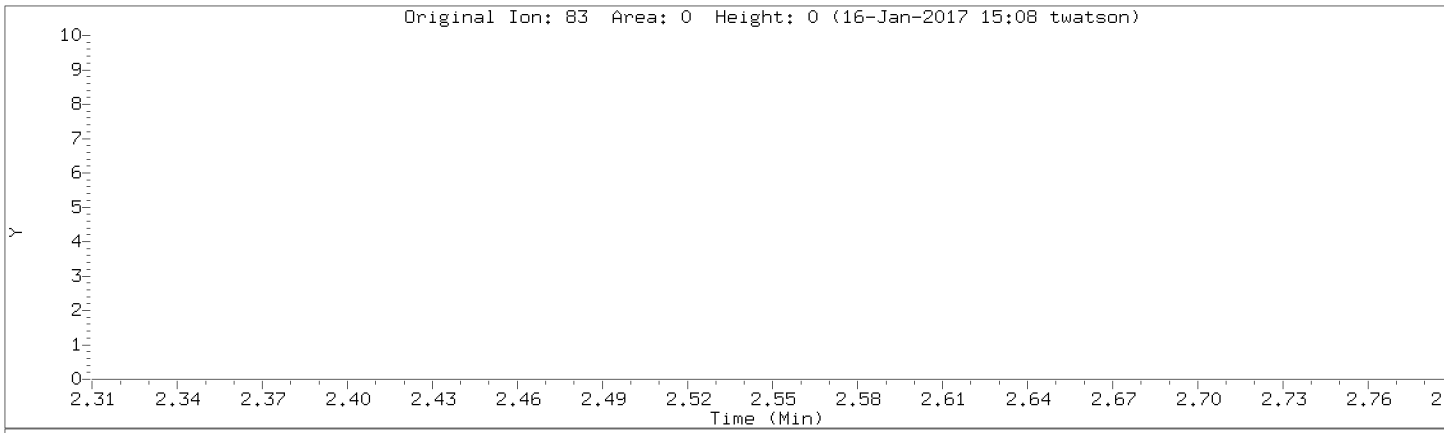
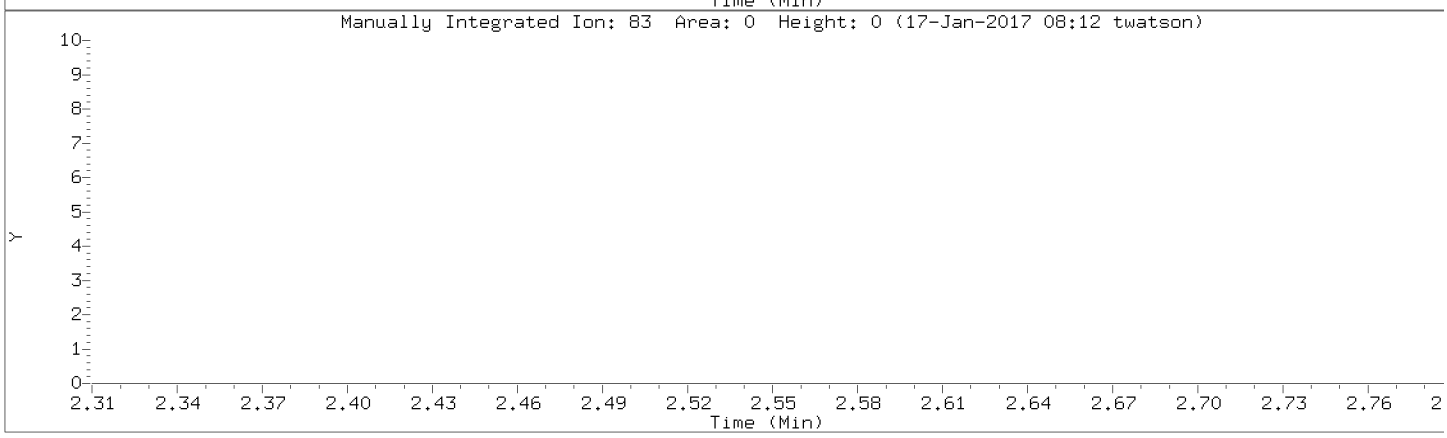
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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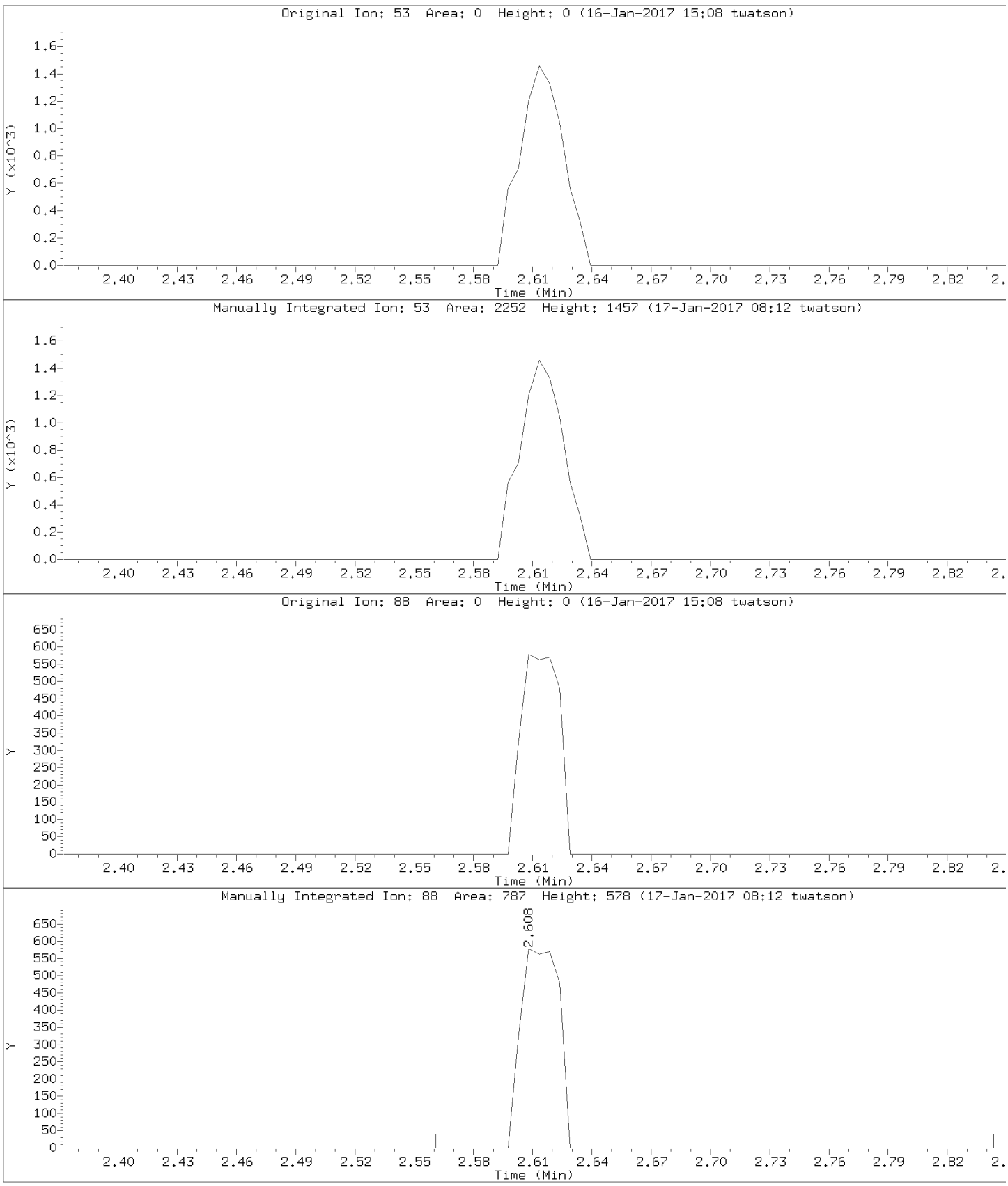
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8



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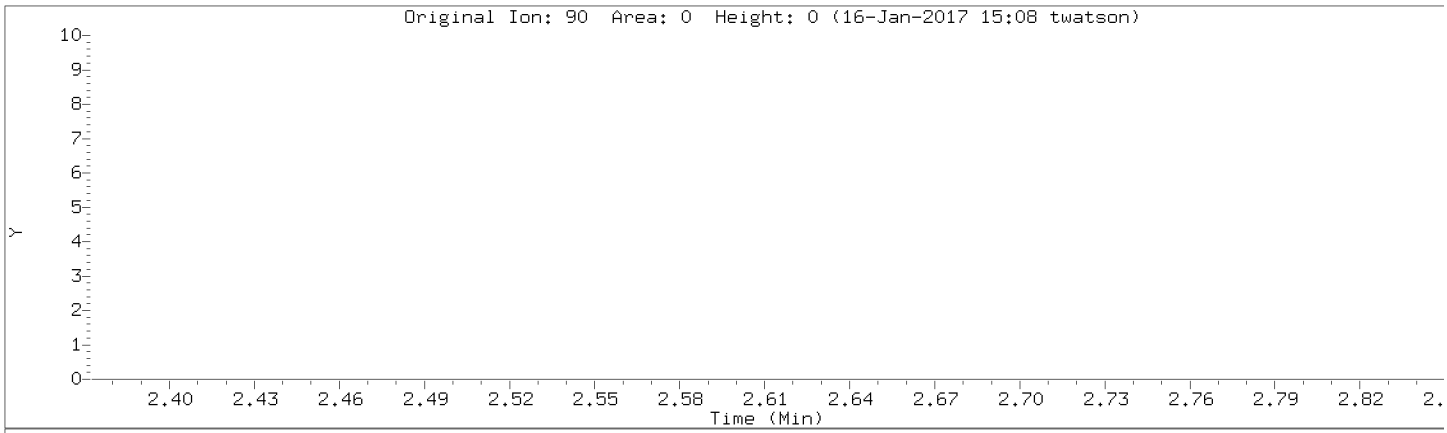
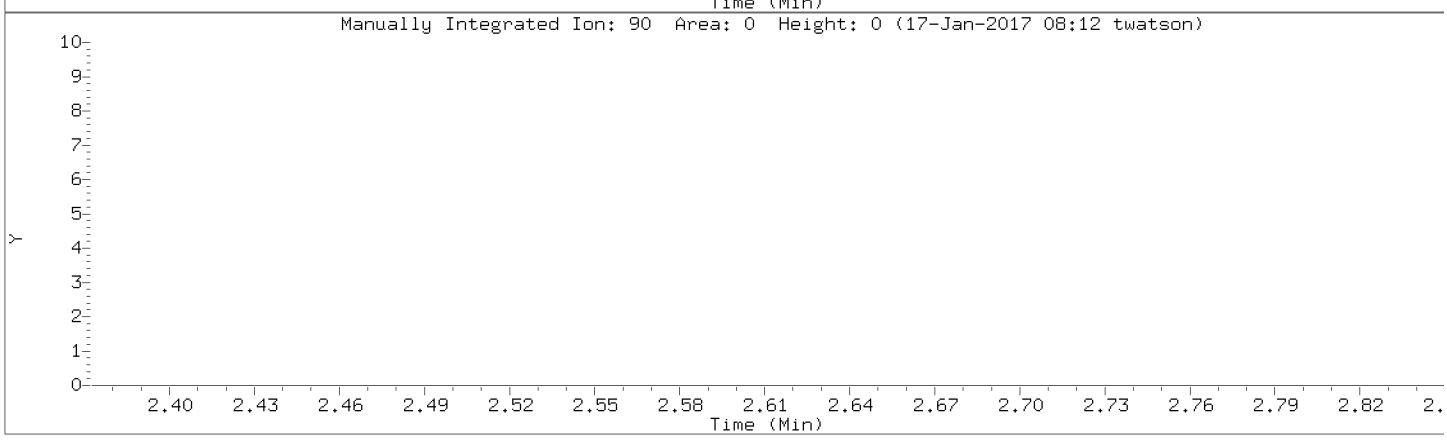
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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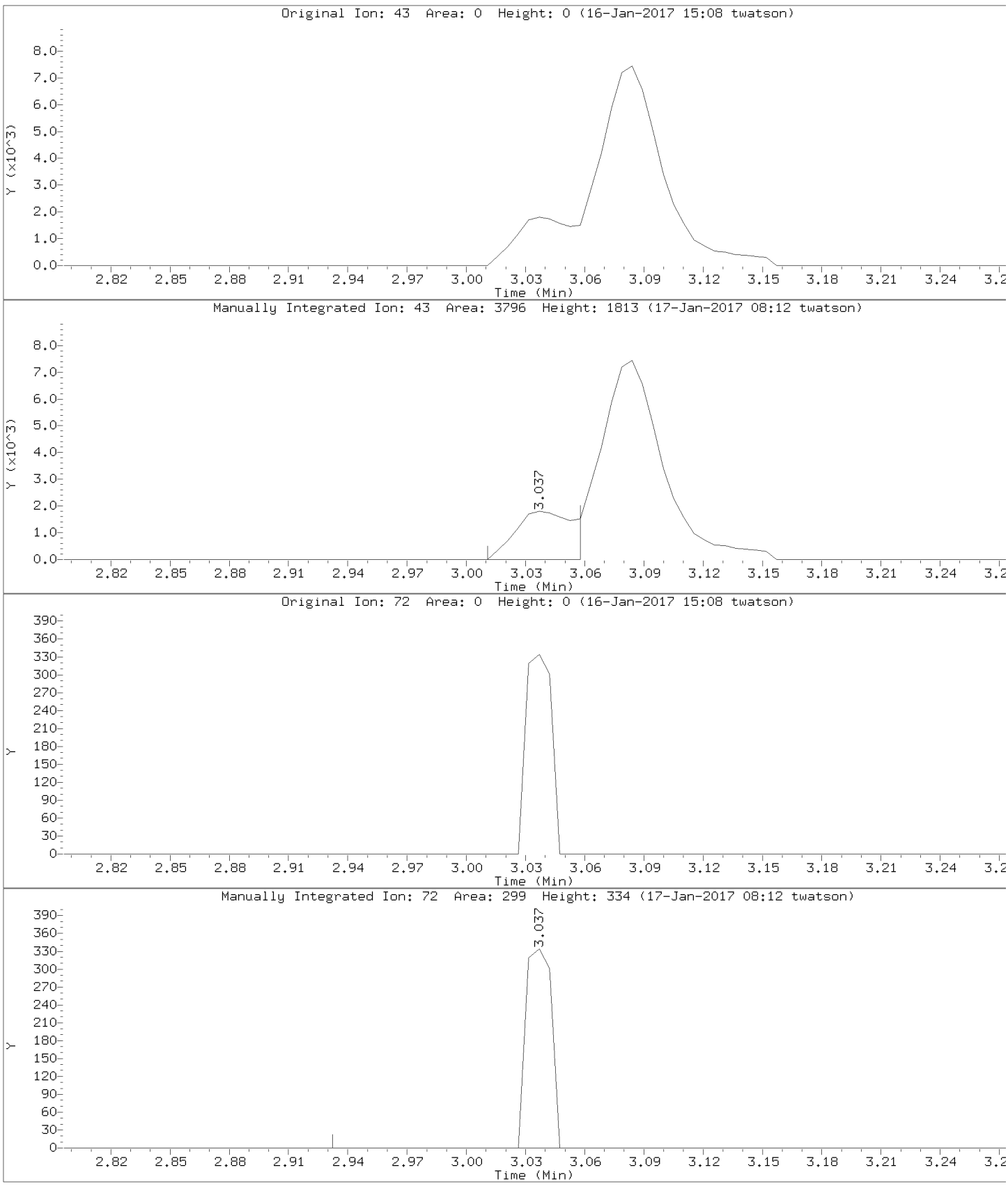
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3



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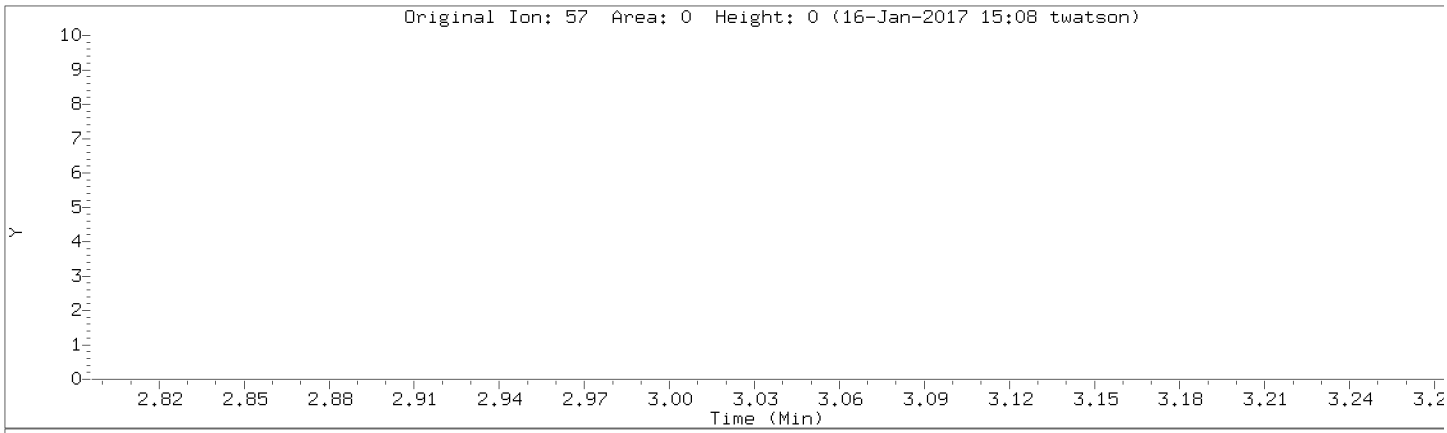
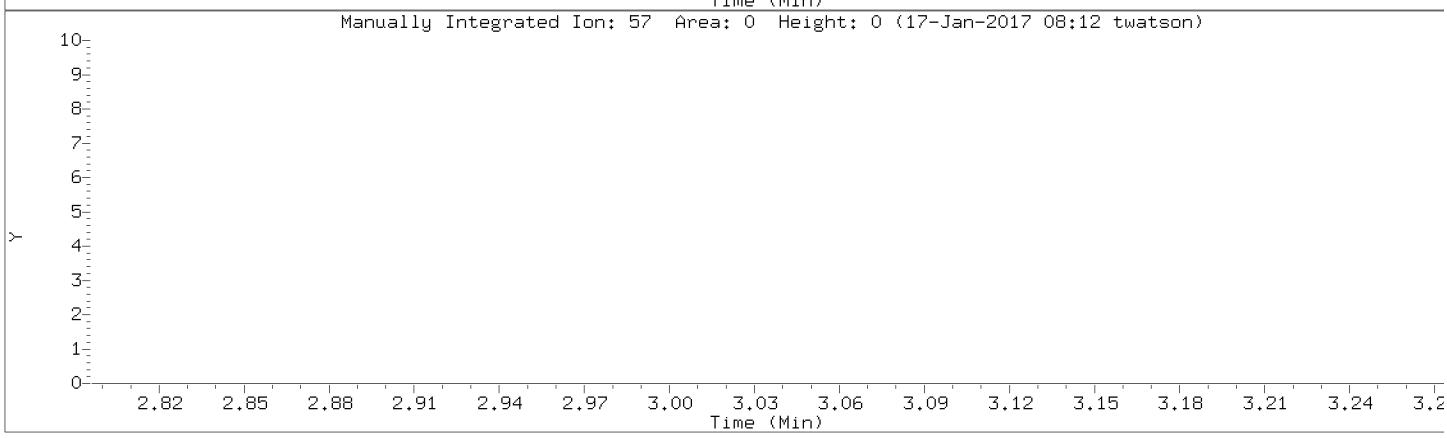
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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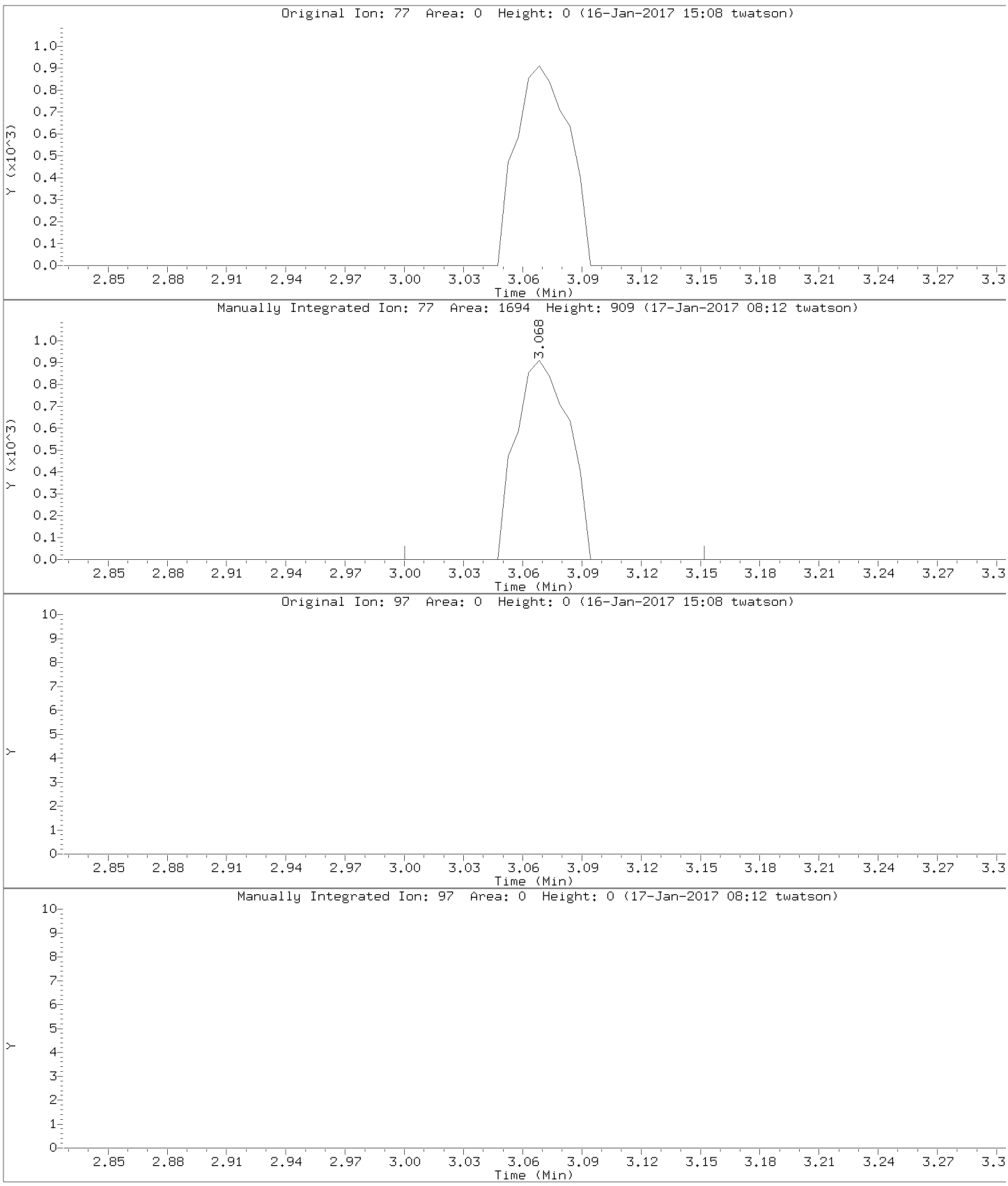
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7



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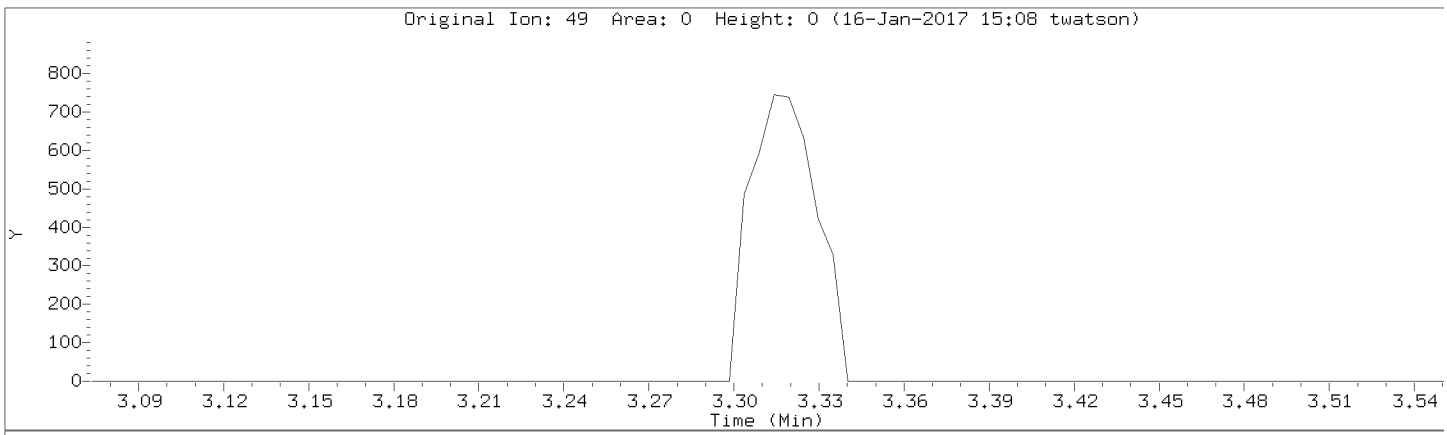
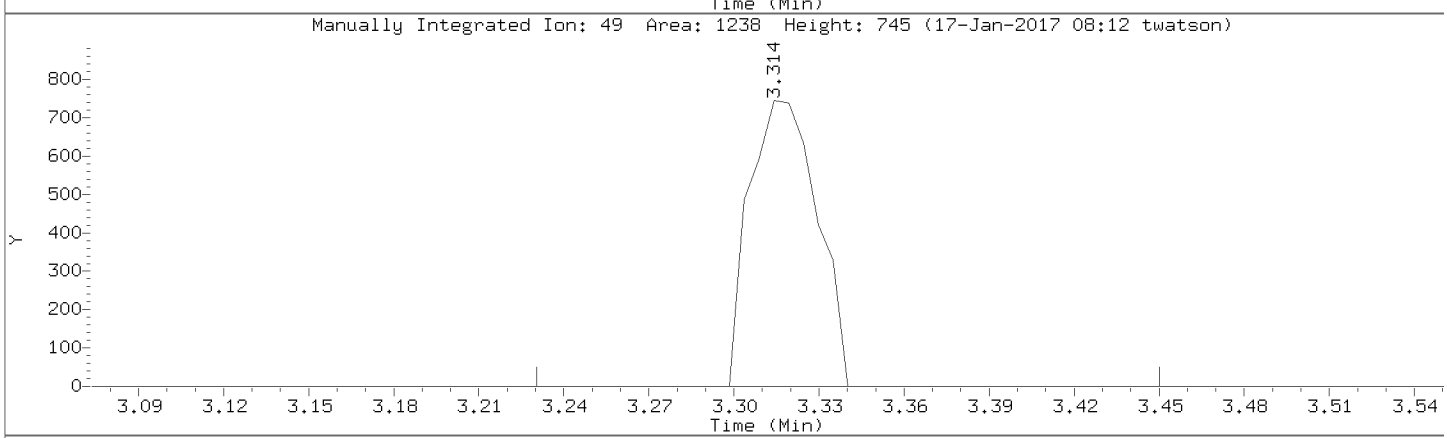
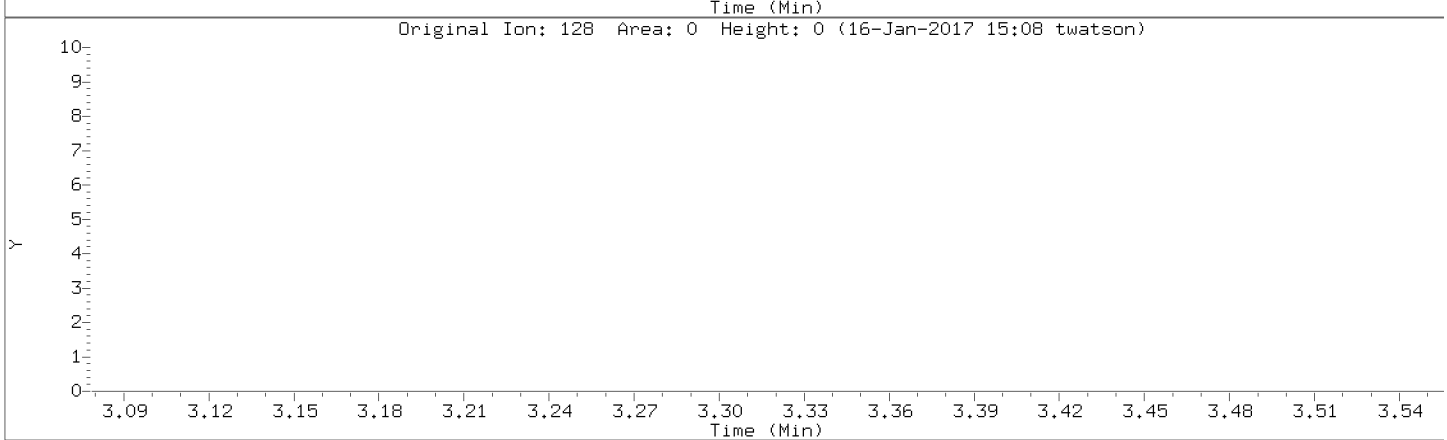
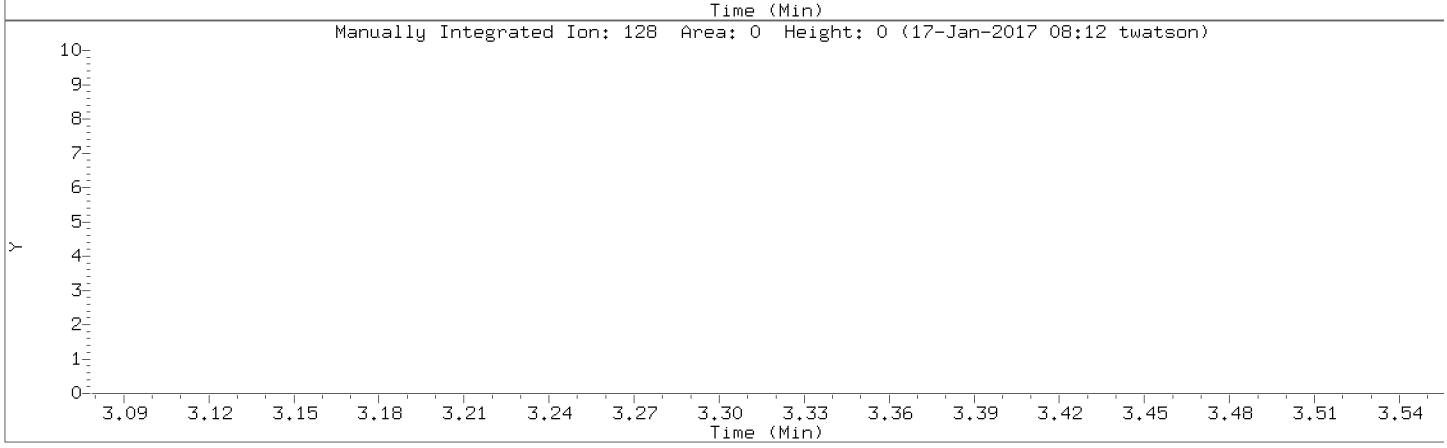
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Bromochloromethane Review Code: NI
CAS Number: 74-97-5









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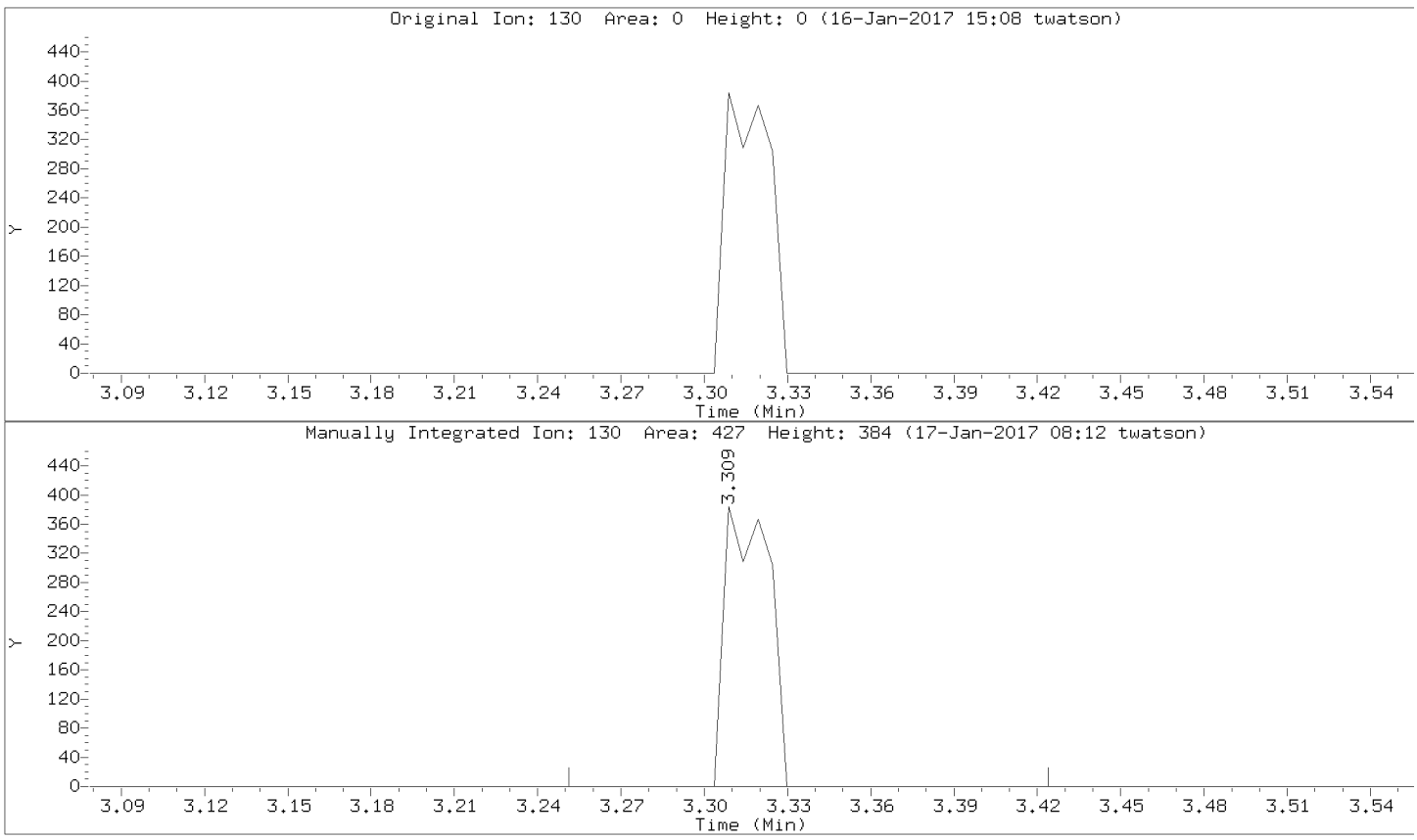
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0



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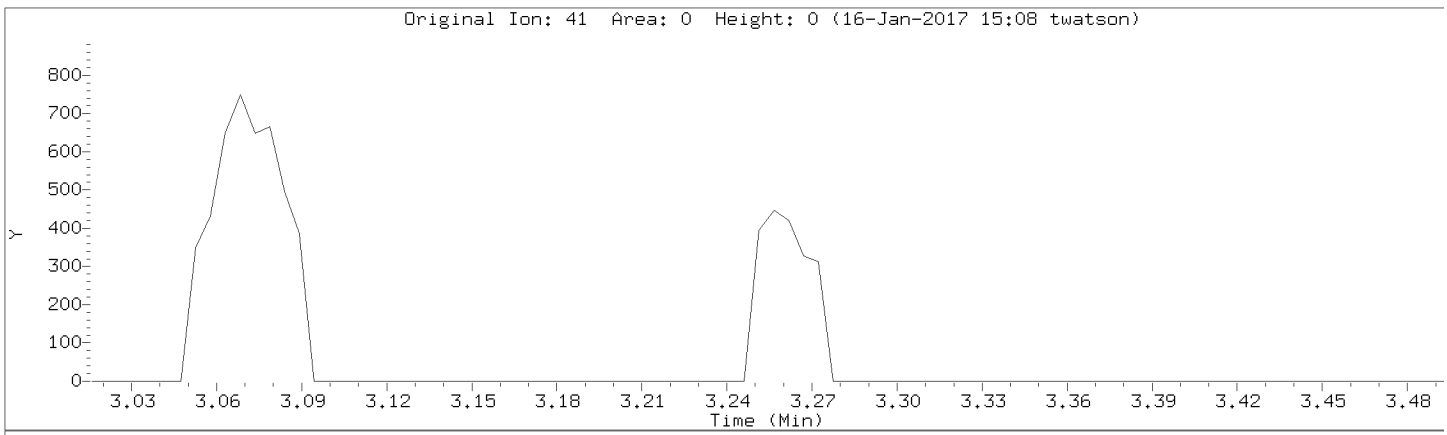
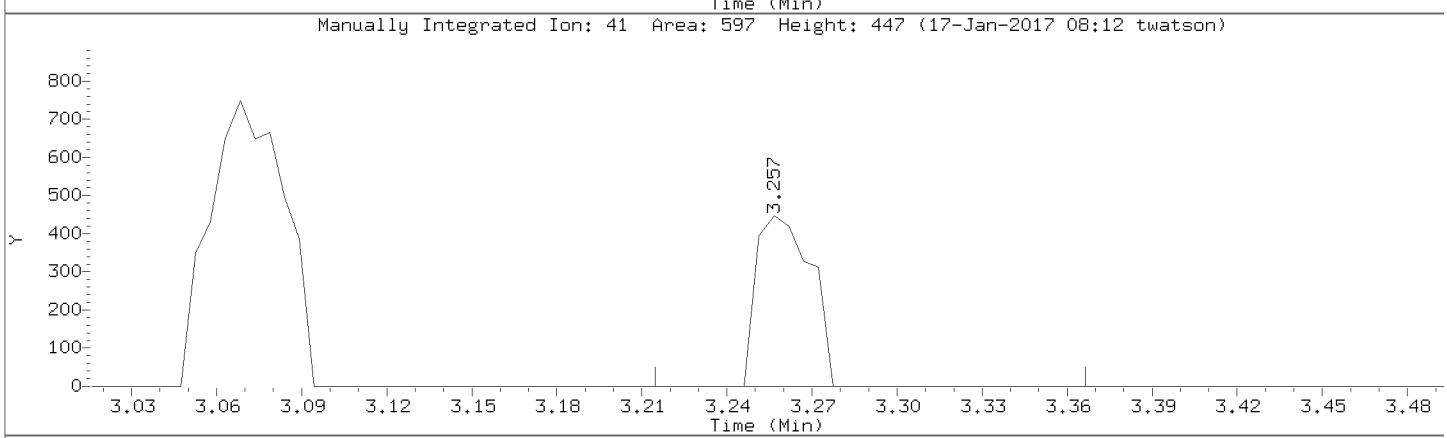
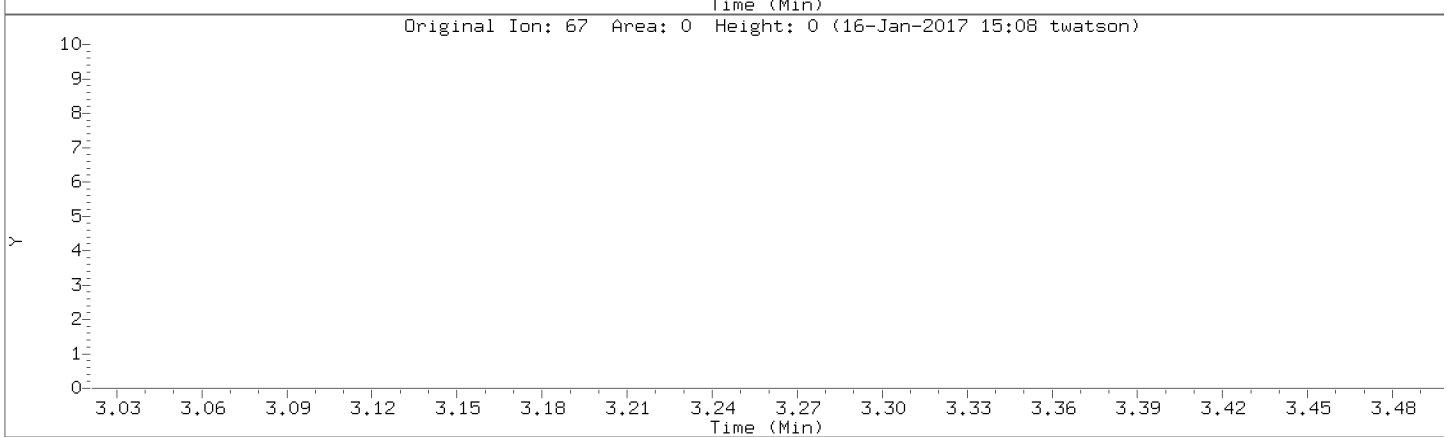
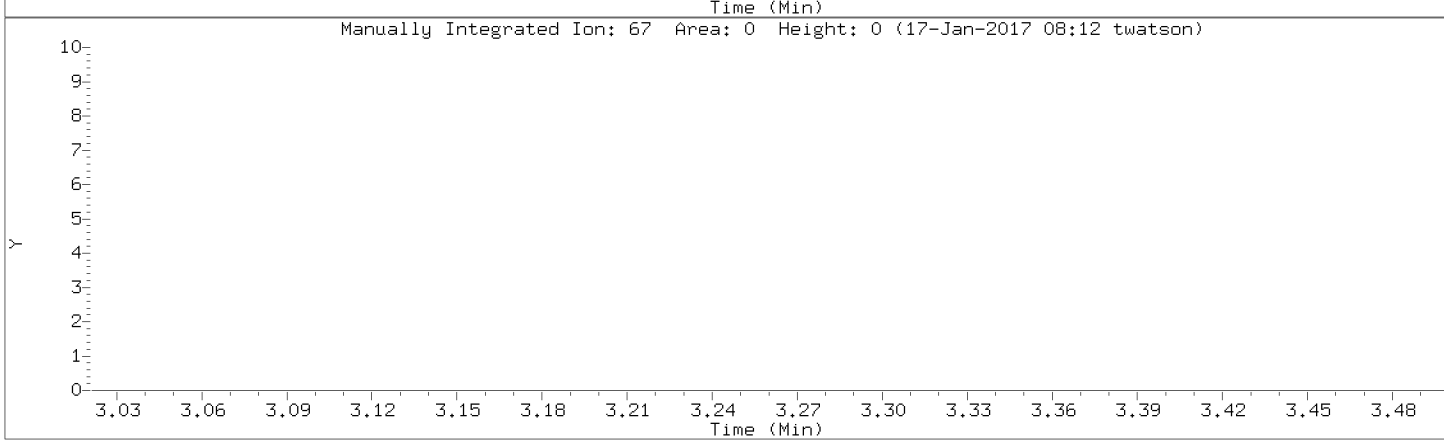
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7









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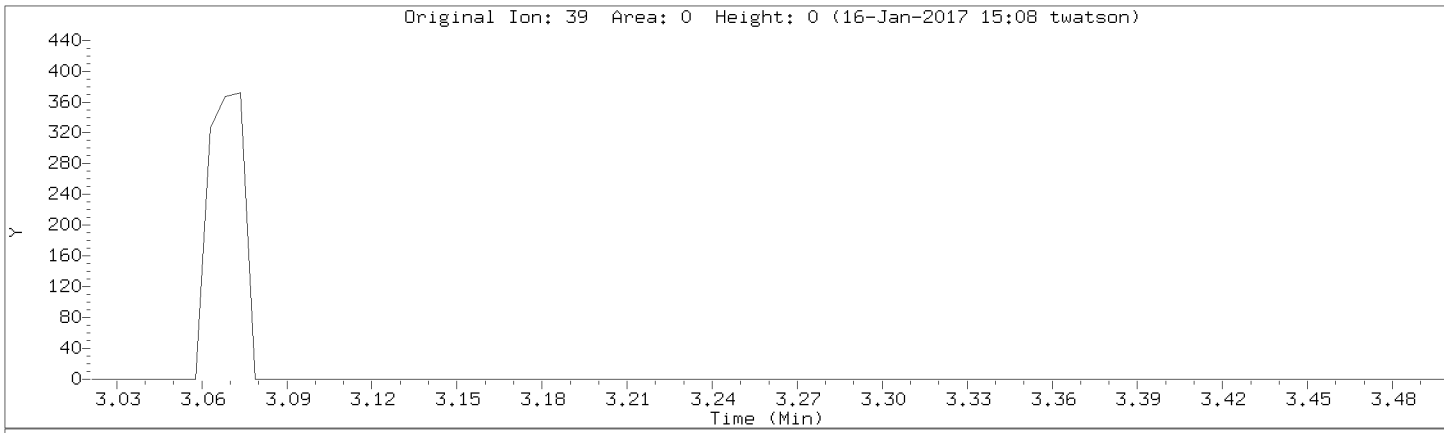

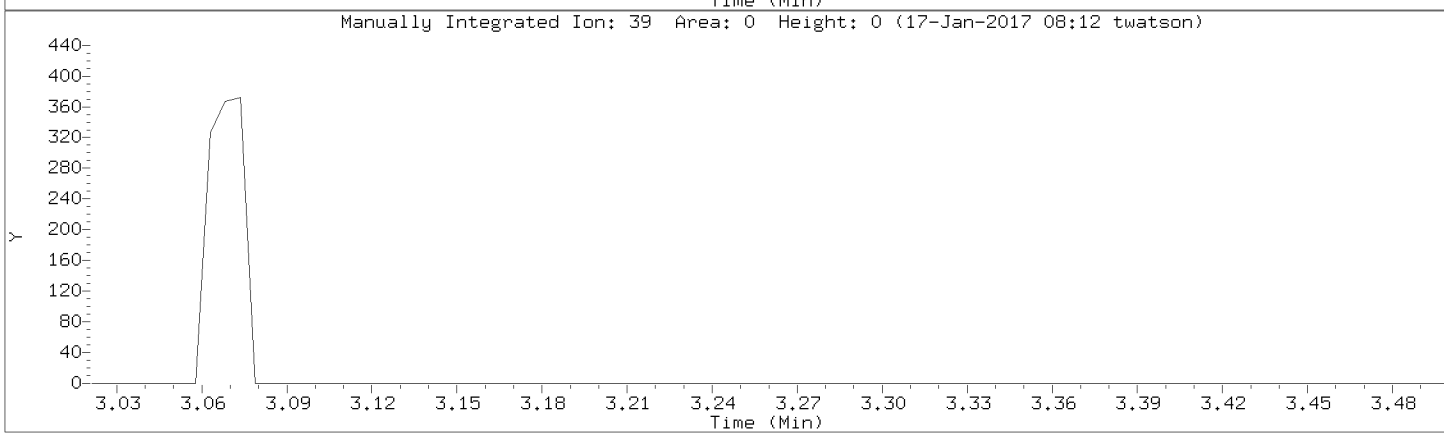

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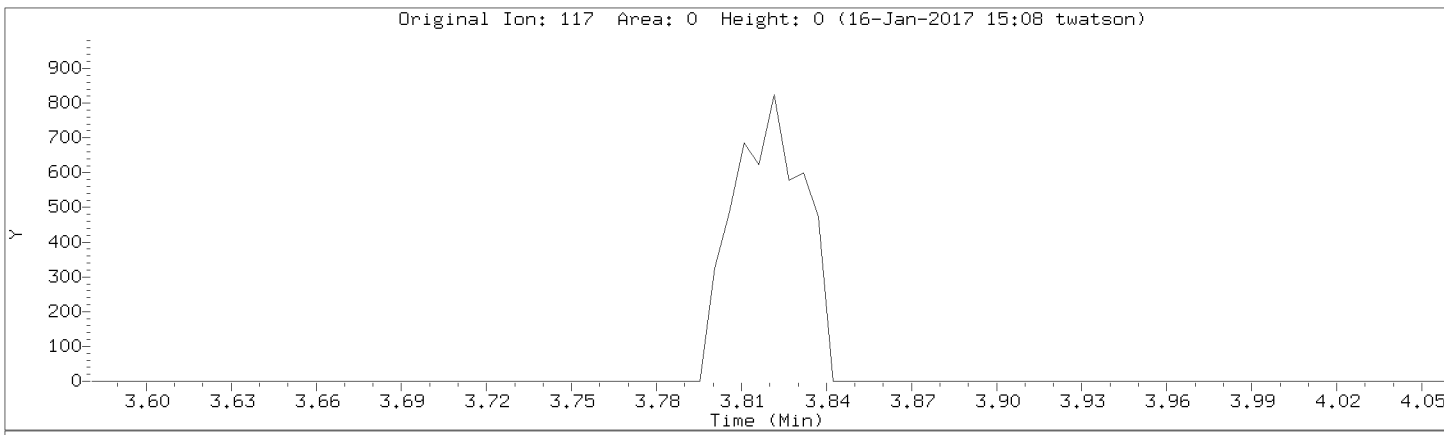
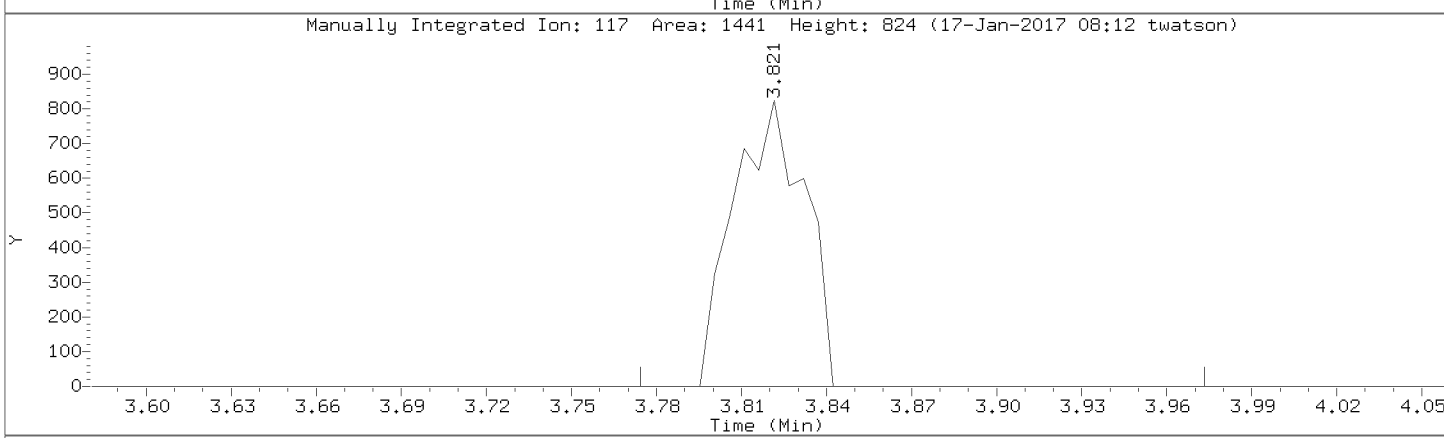
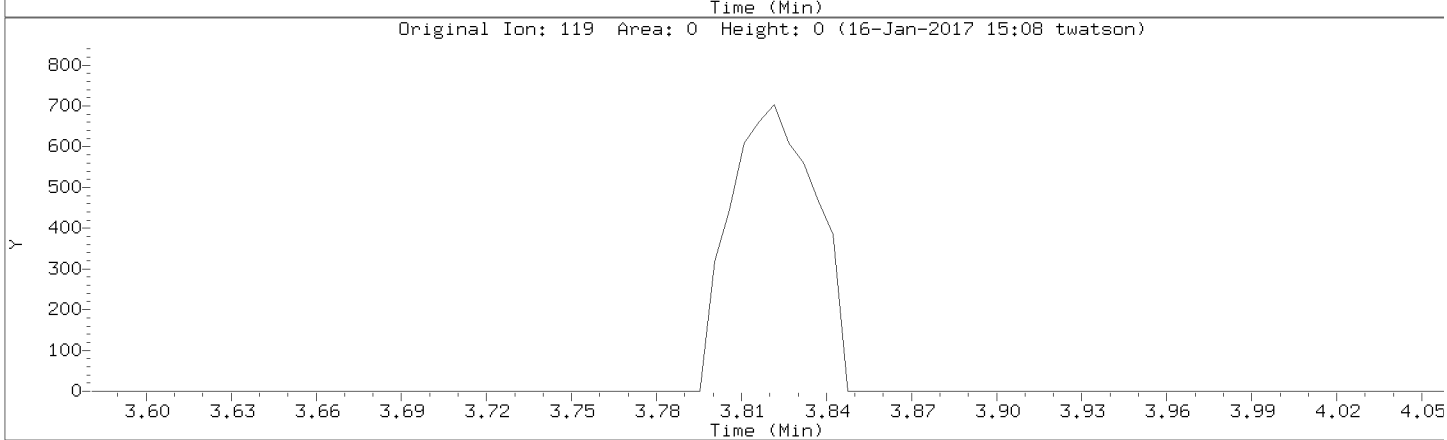
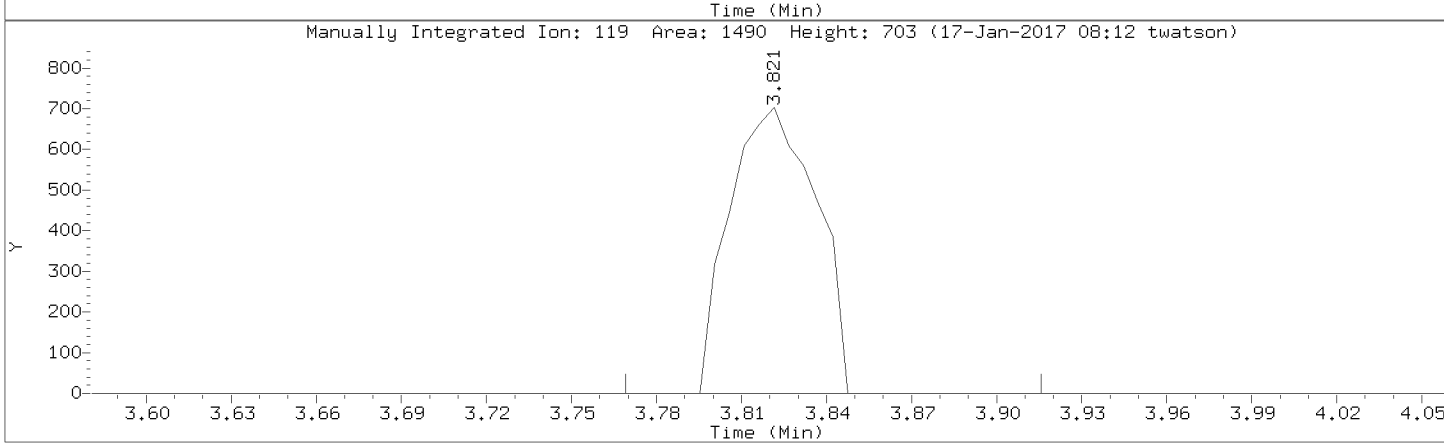
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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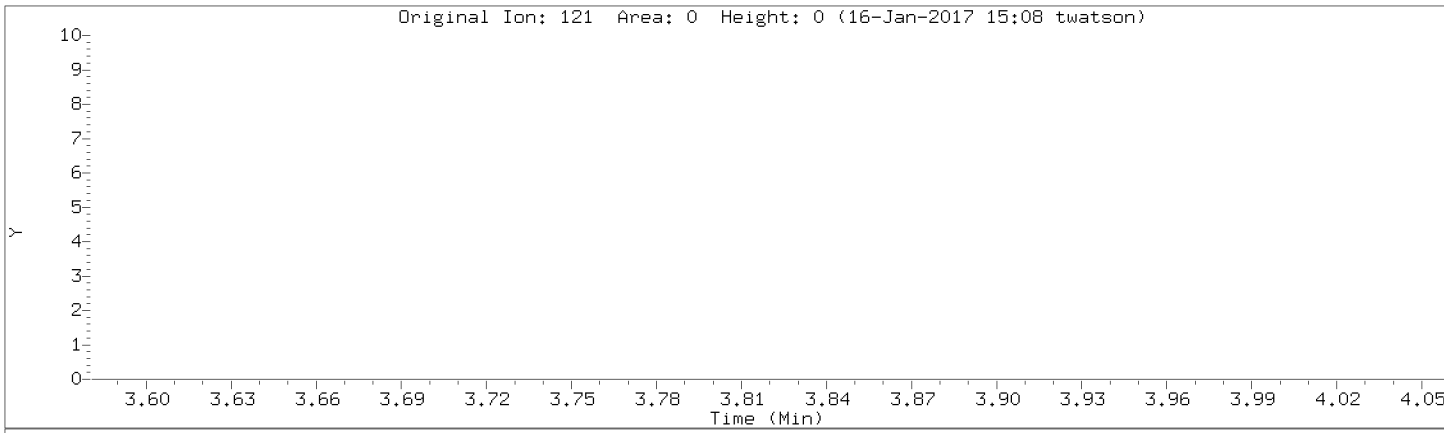
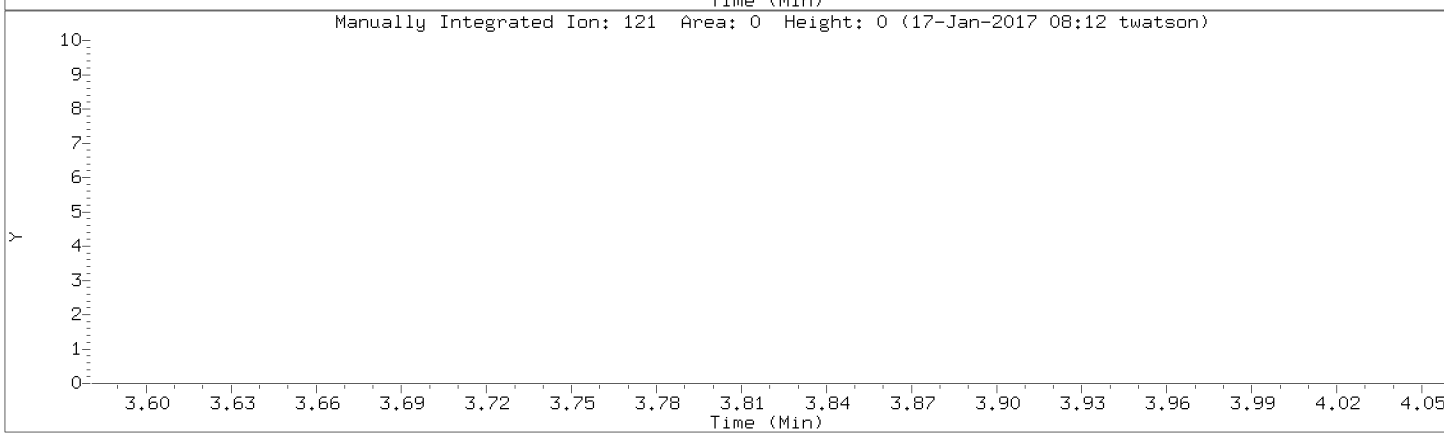
Lab Sample ID: 8260-CAL2,140015:0





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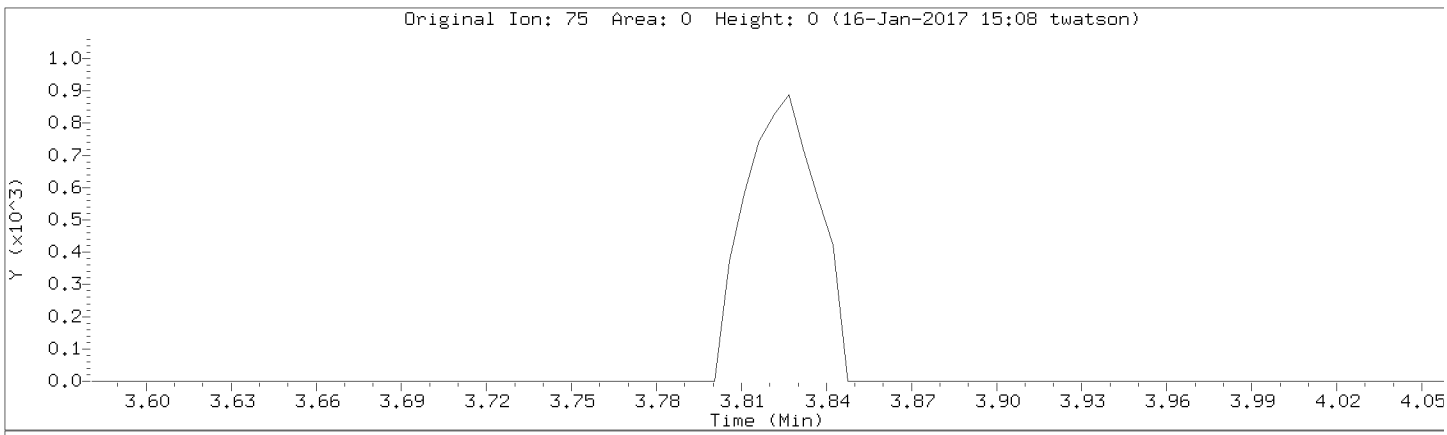
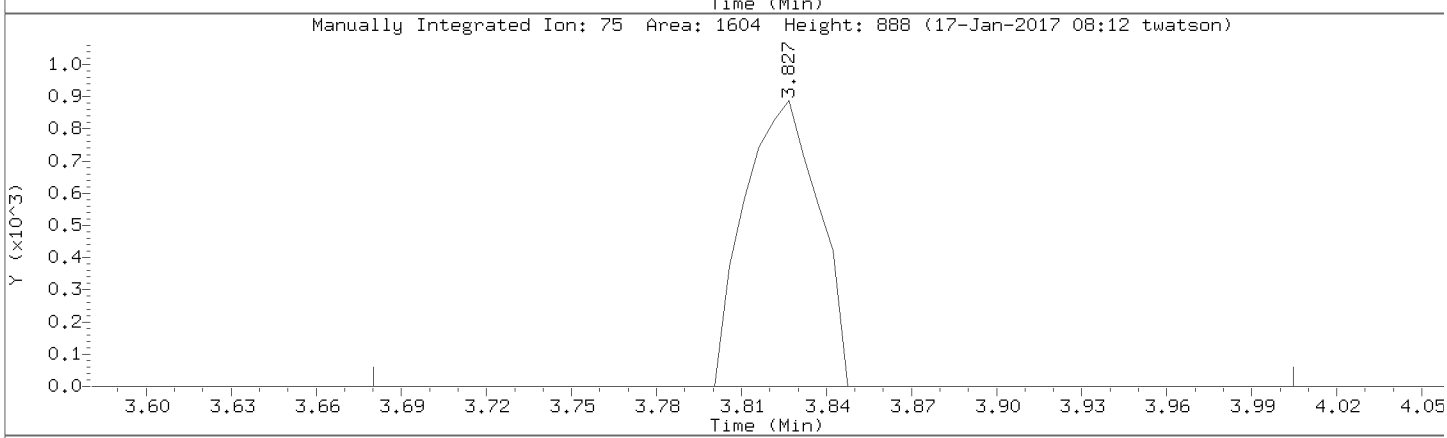
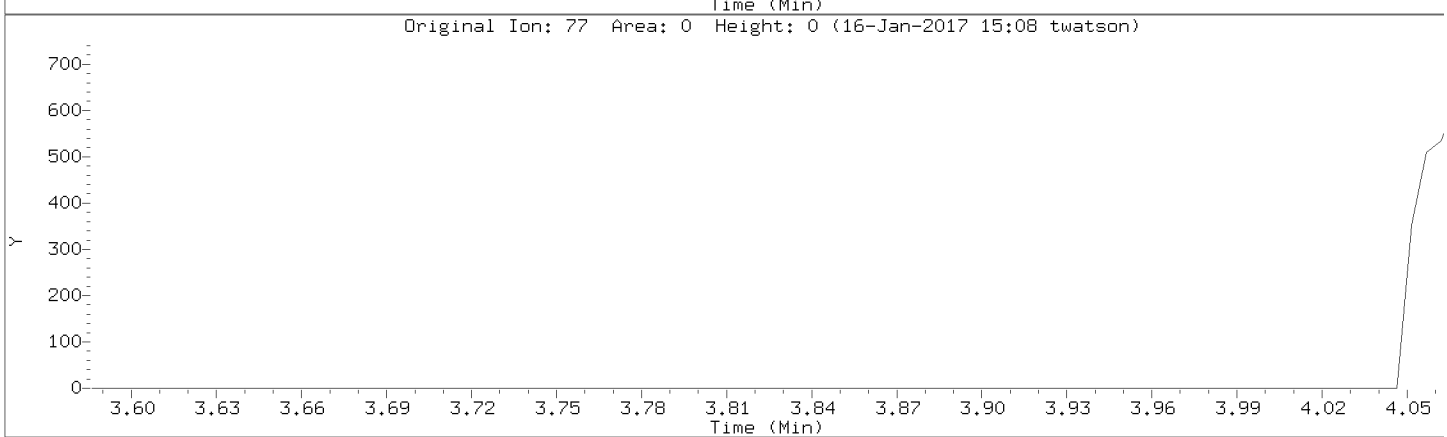
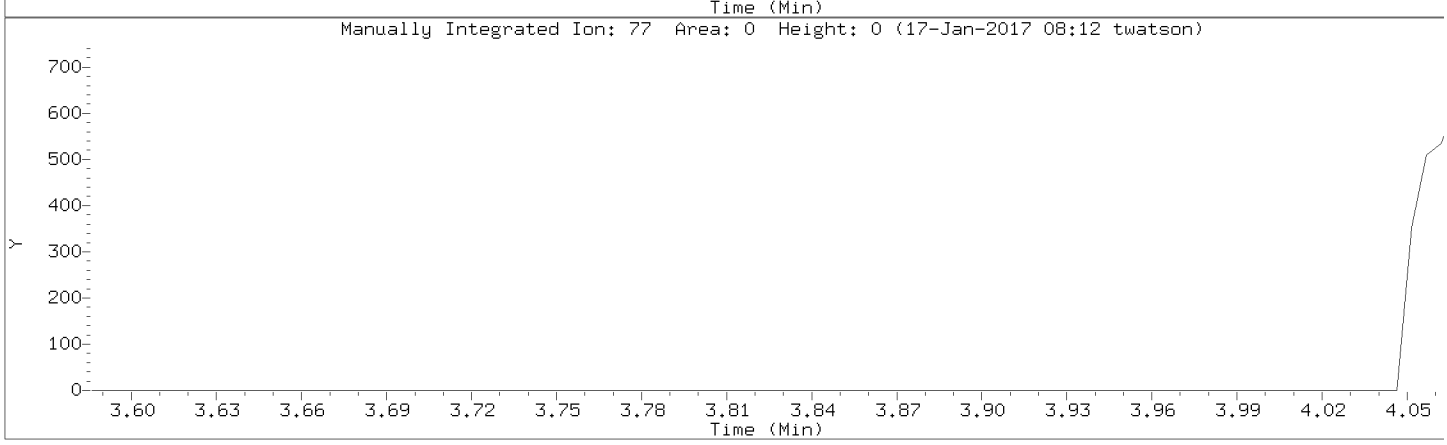
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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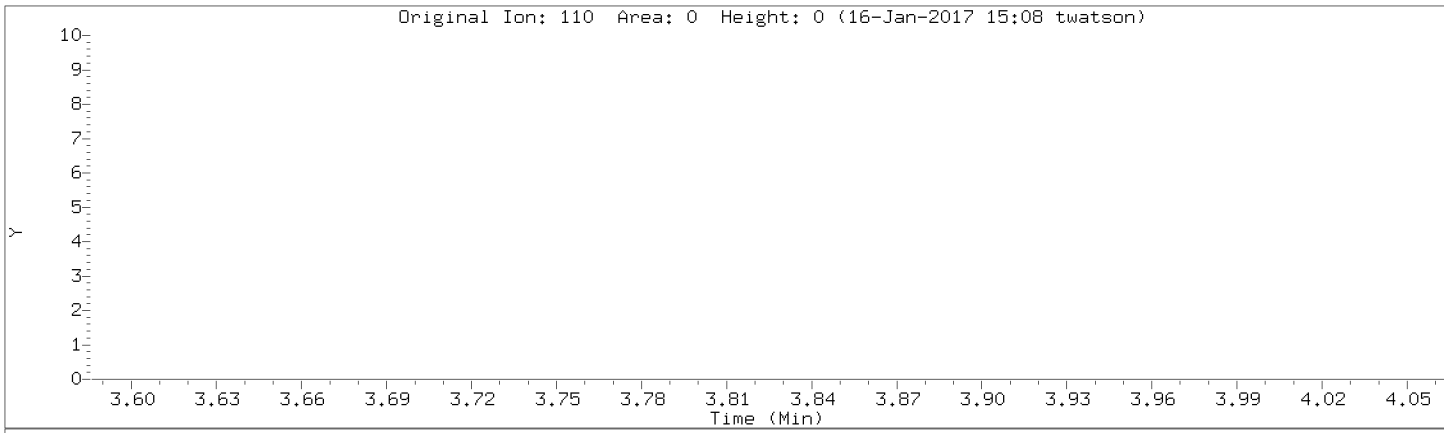
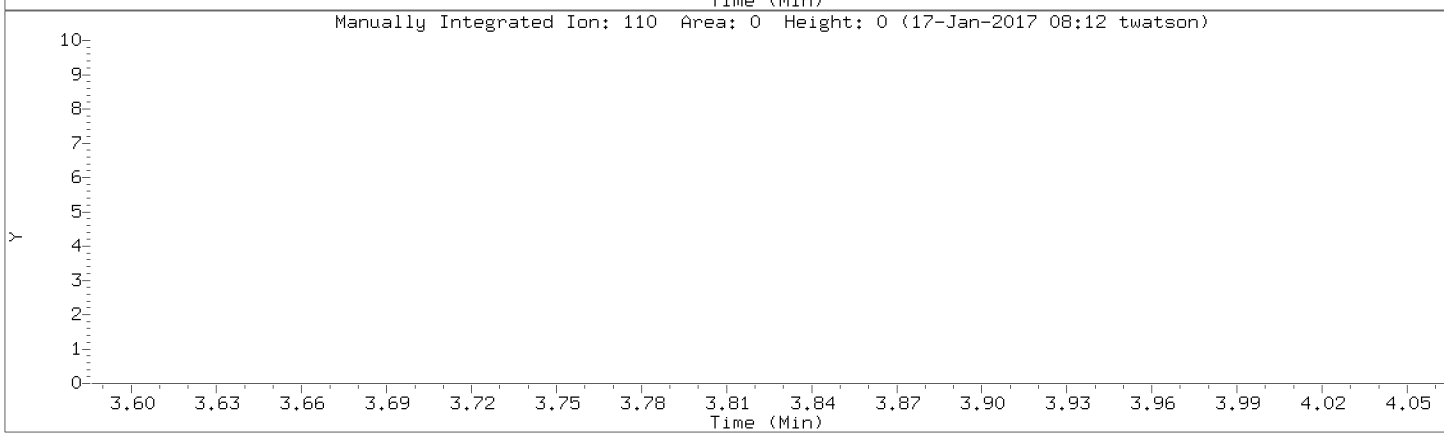
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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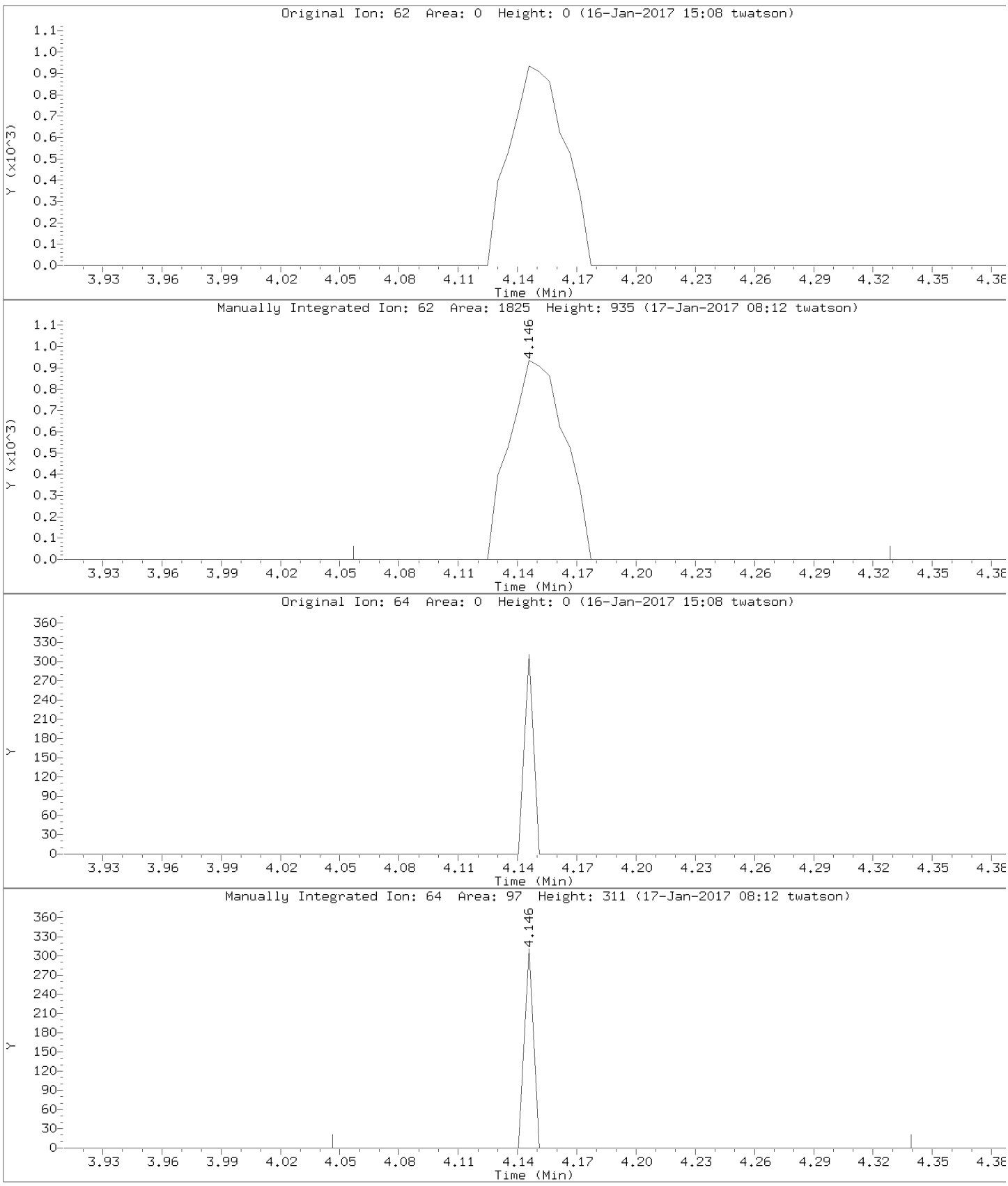
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2



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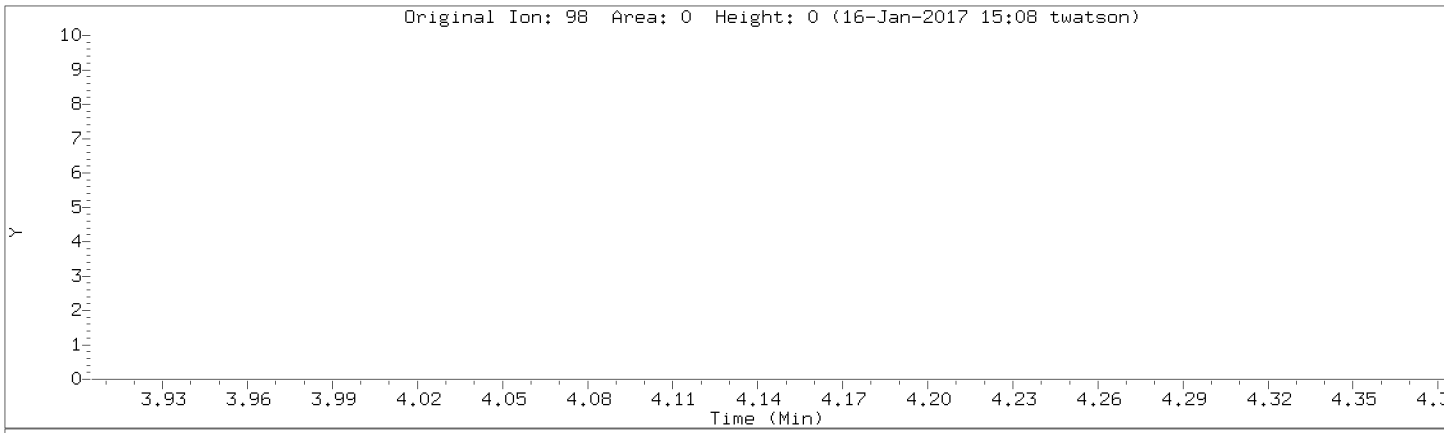
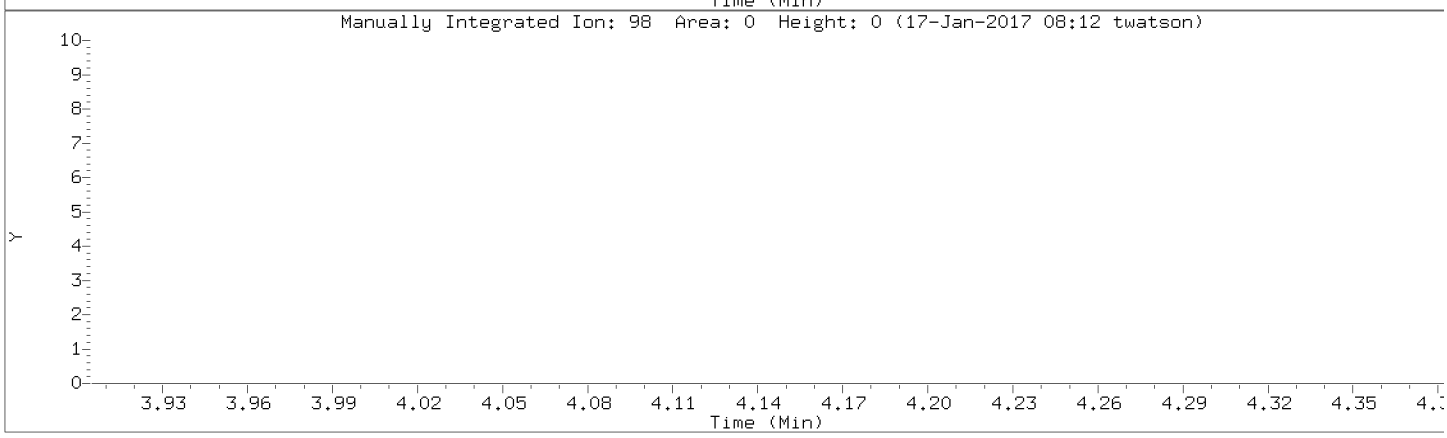
Lab Sample ID: 8260-CAL2,140015:0





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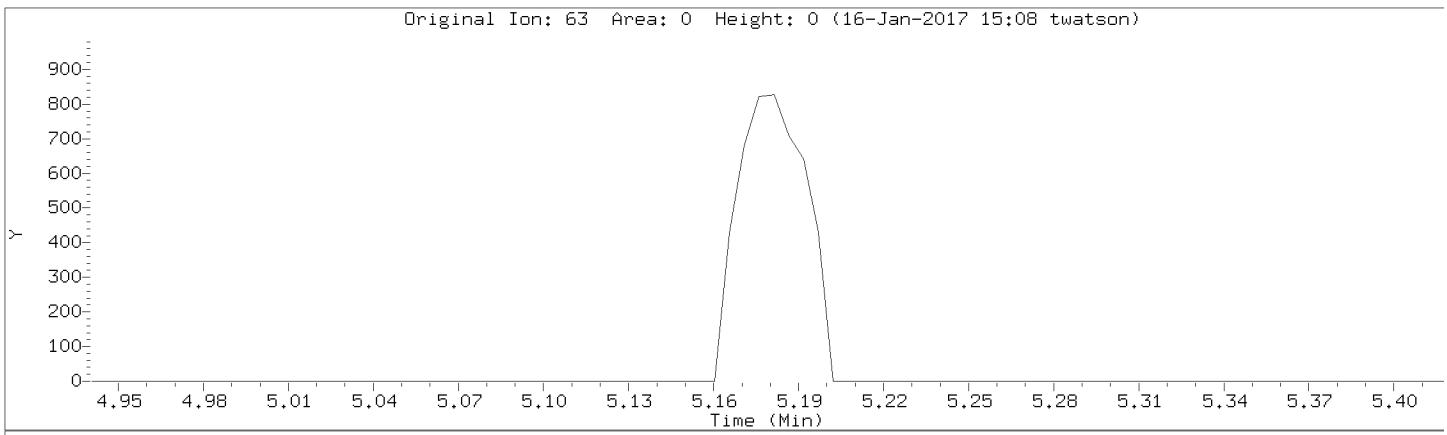
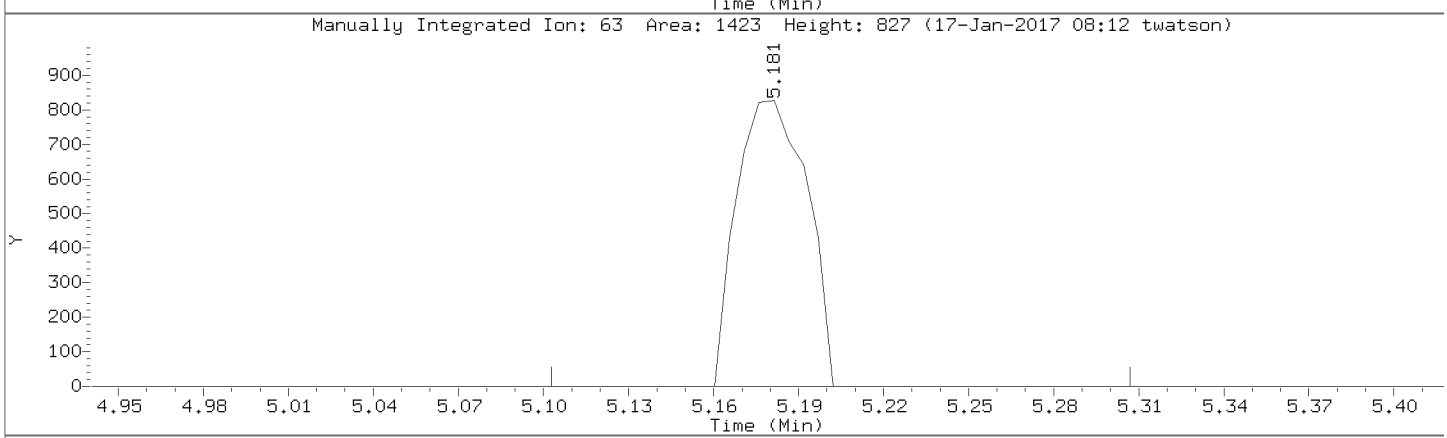
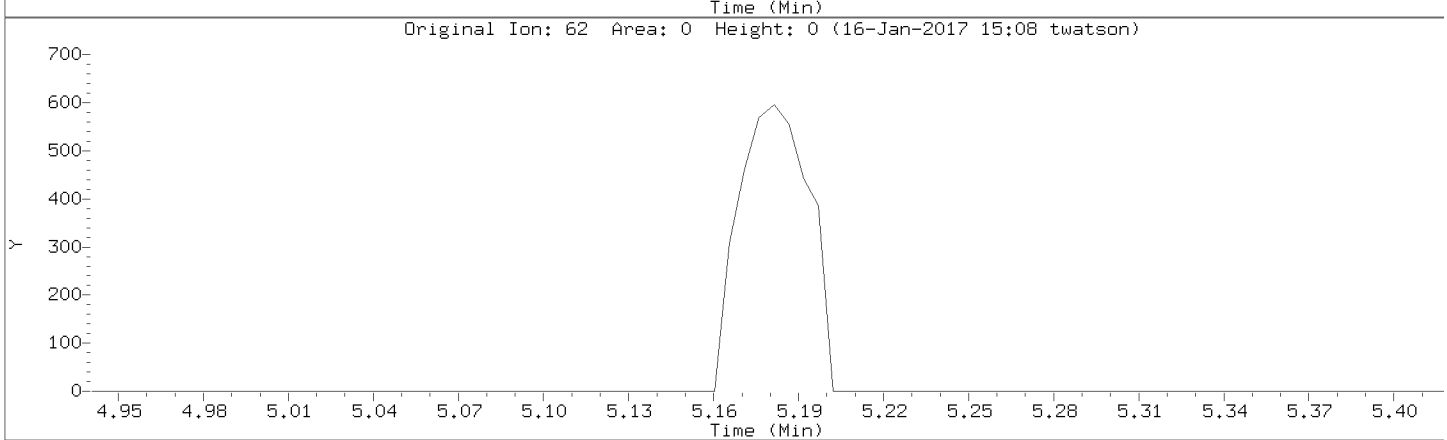
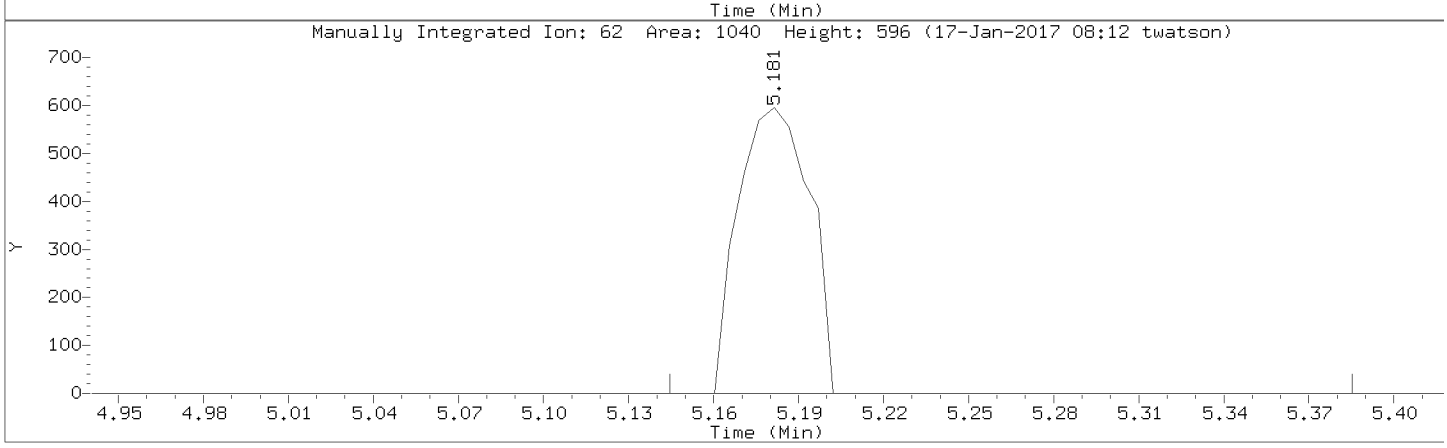
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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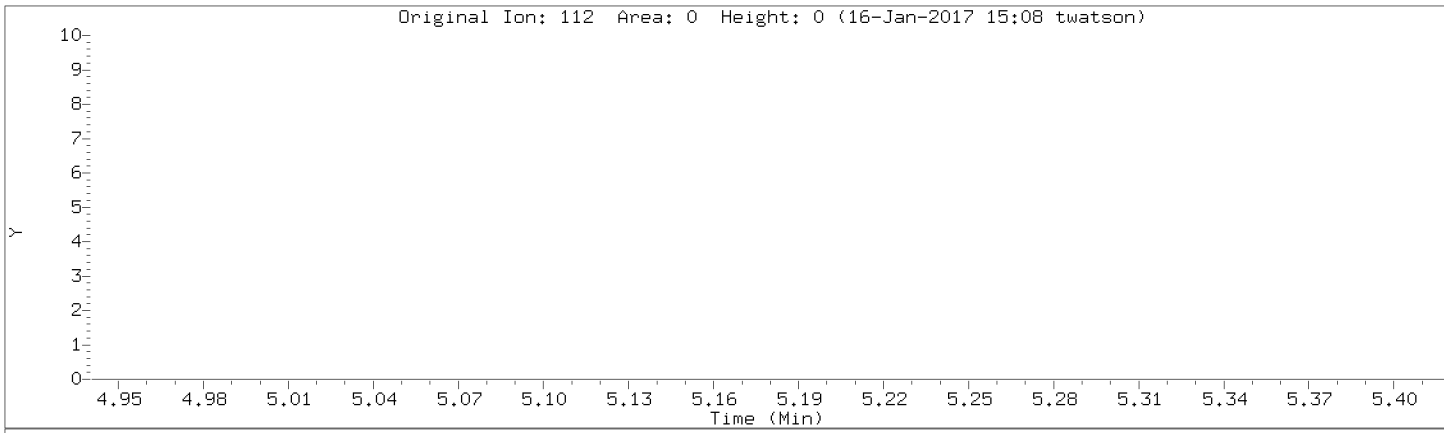
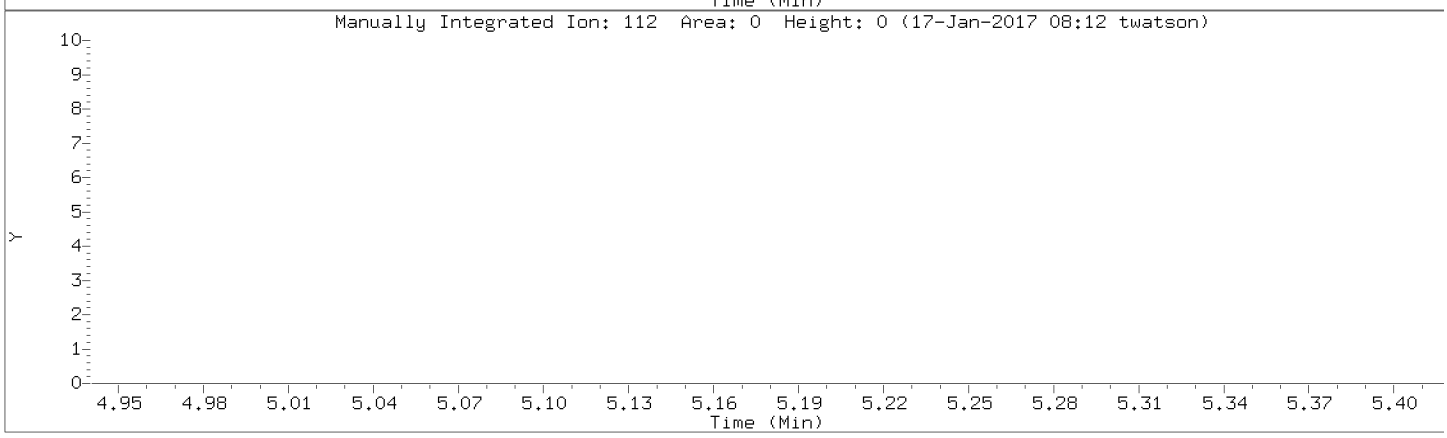
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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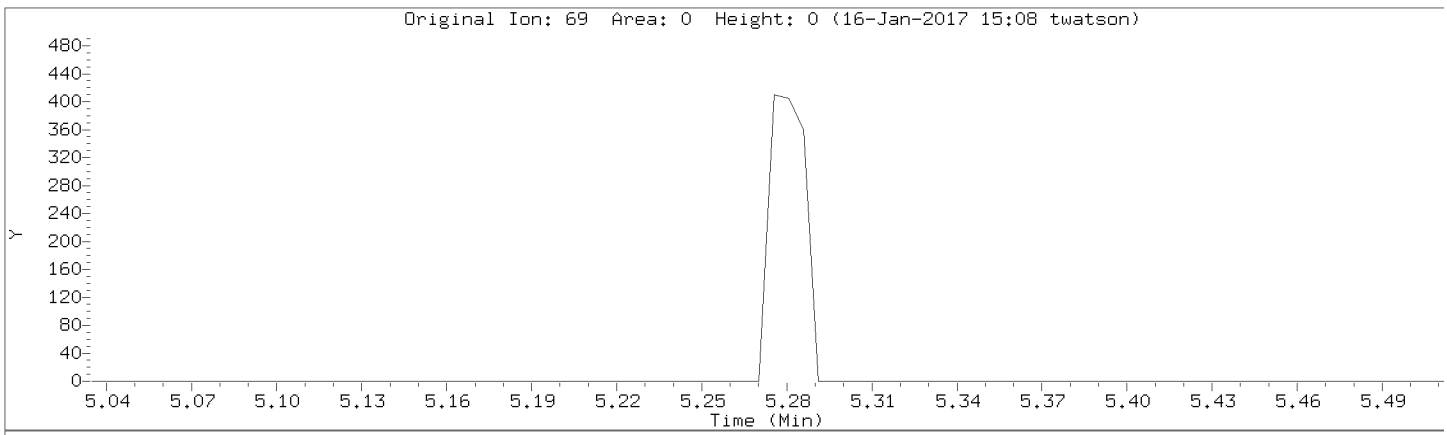
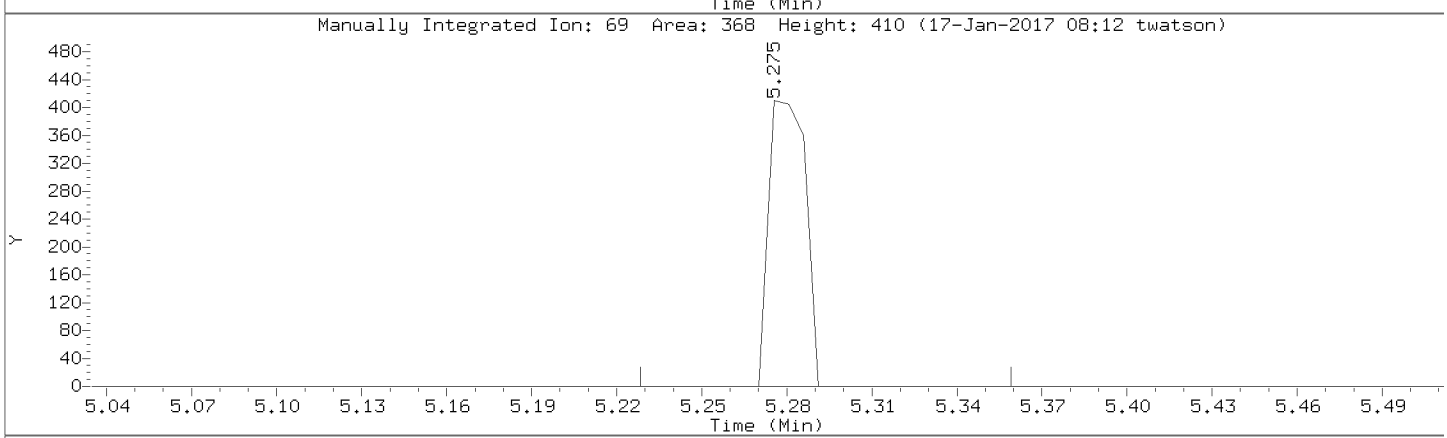
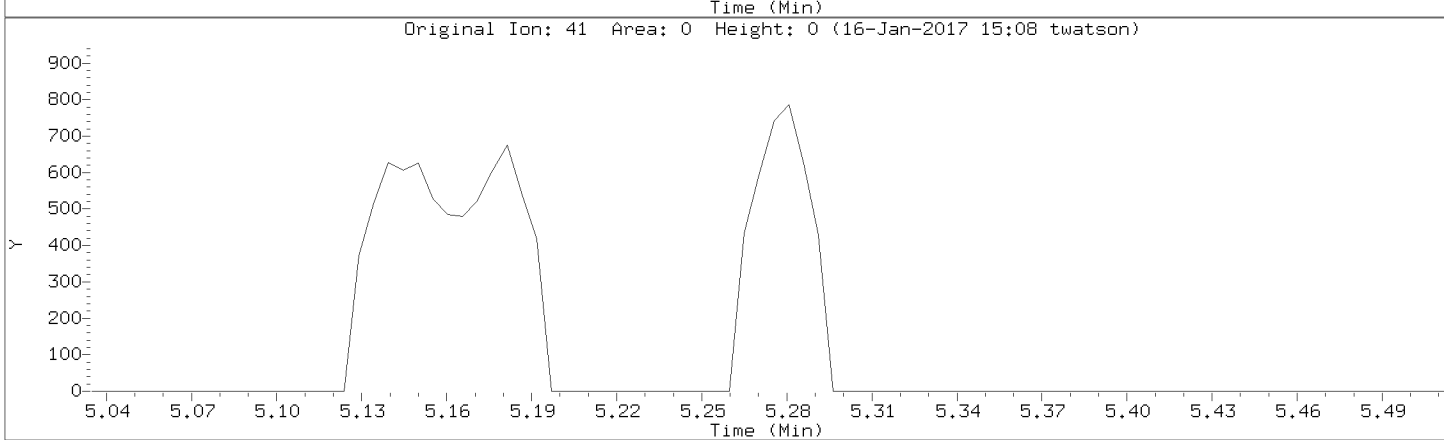
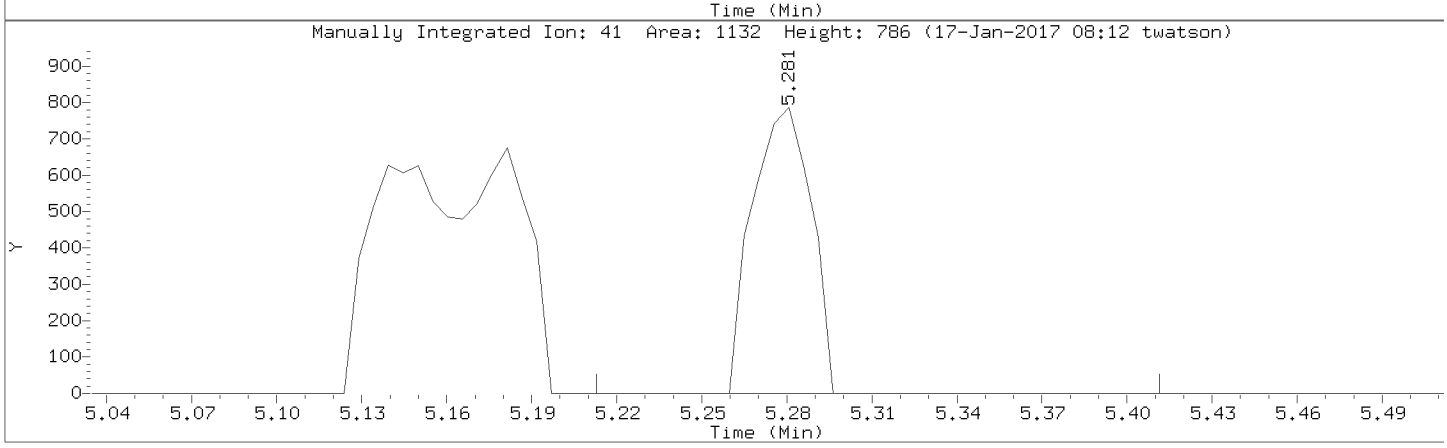
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6









Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a02cal2.d
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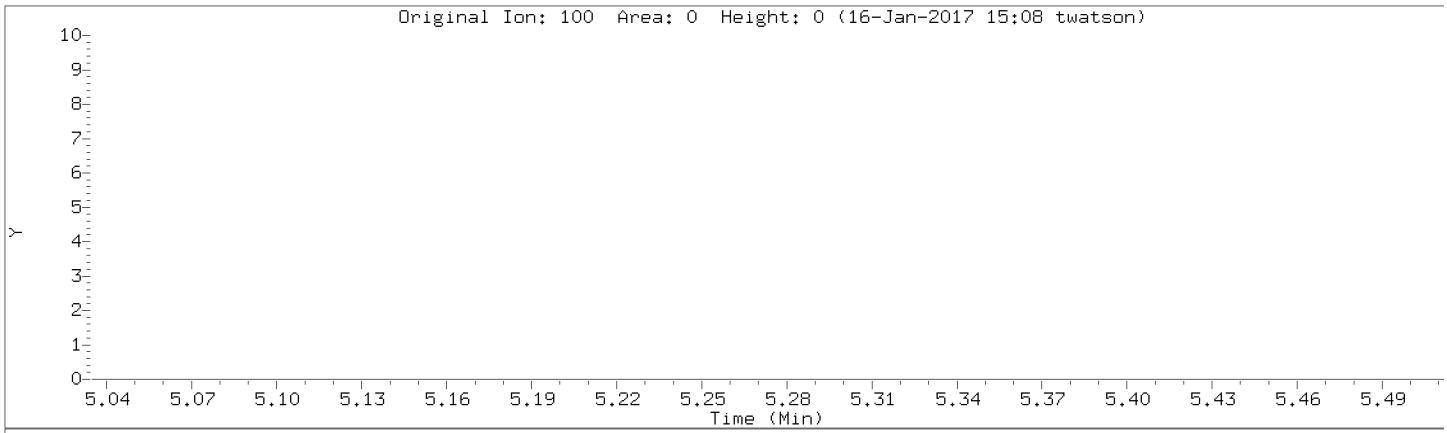
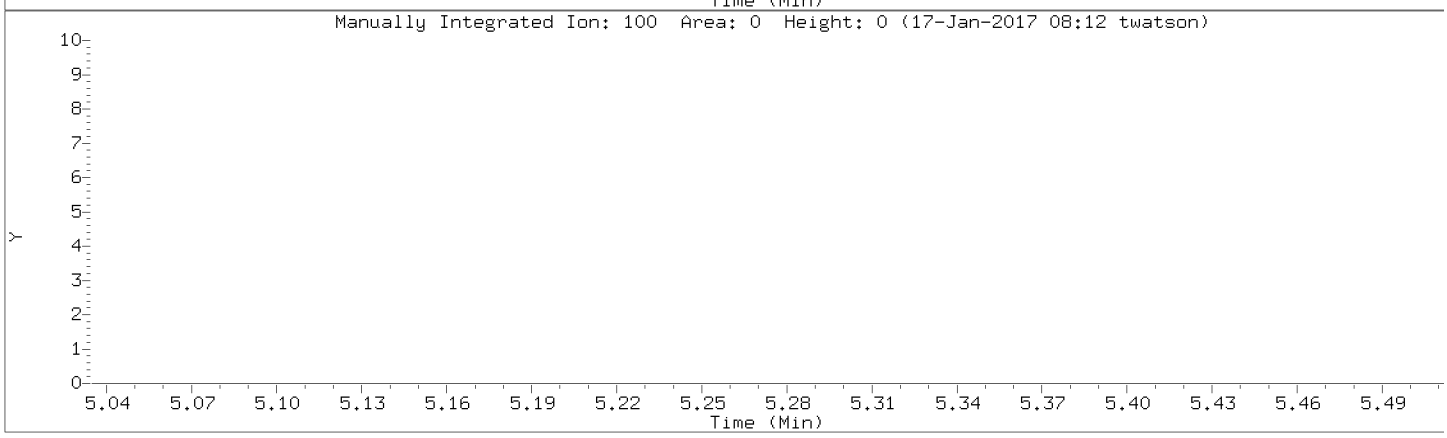
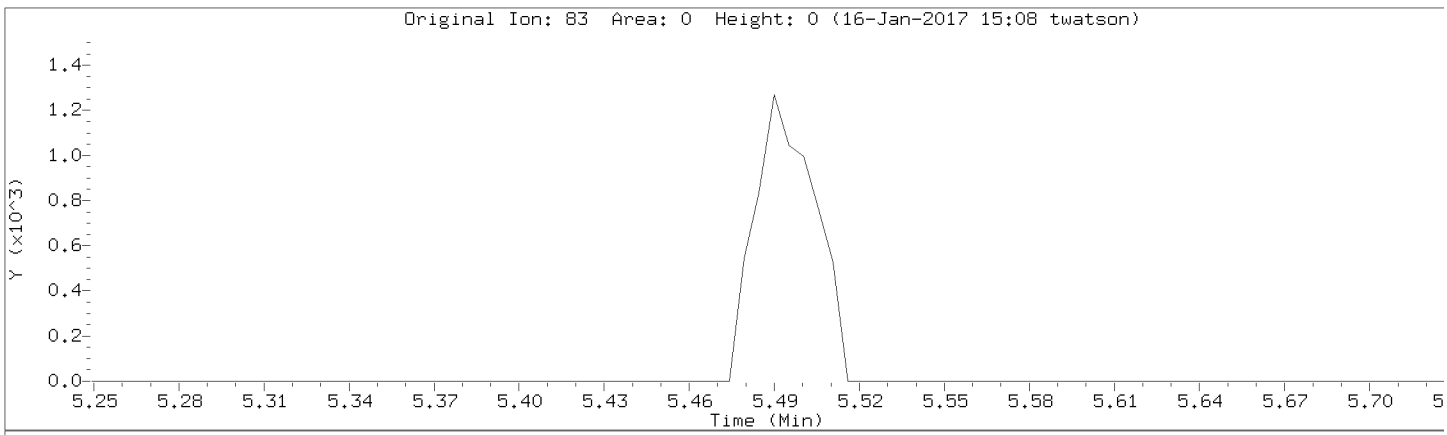
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

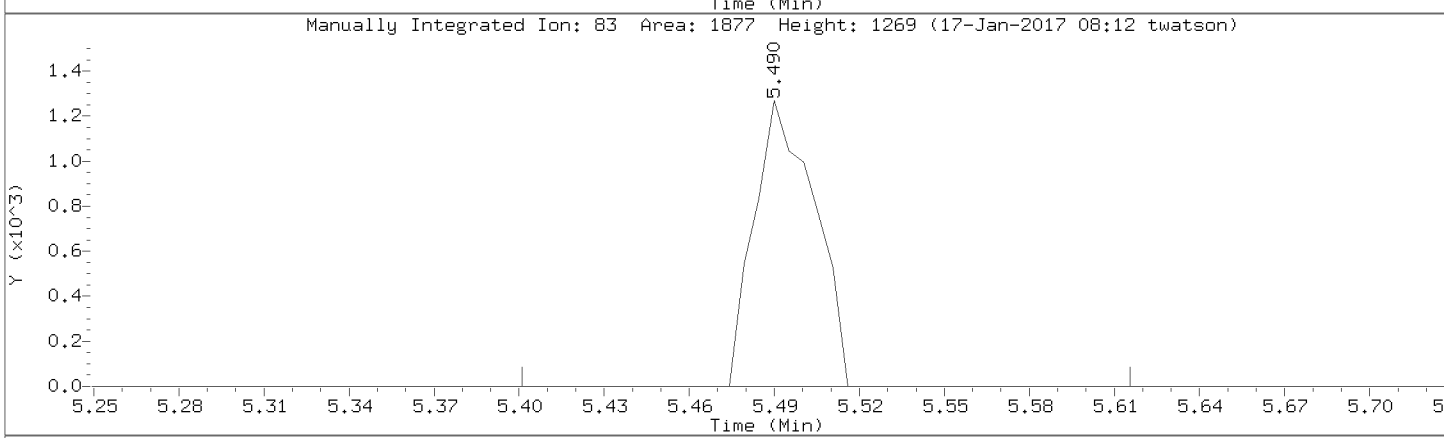


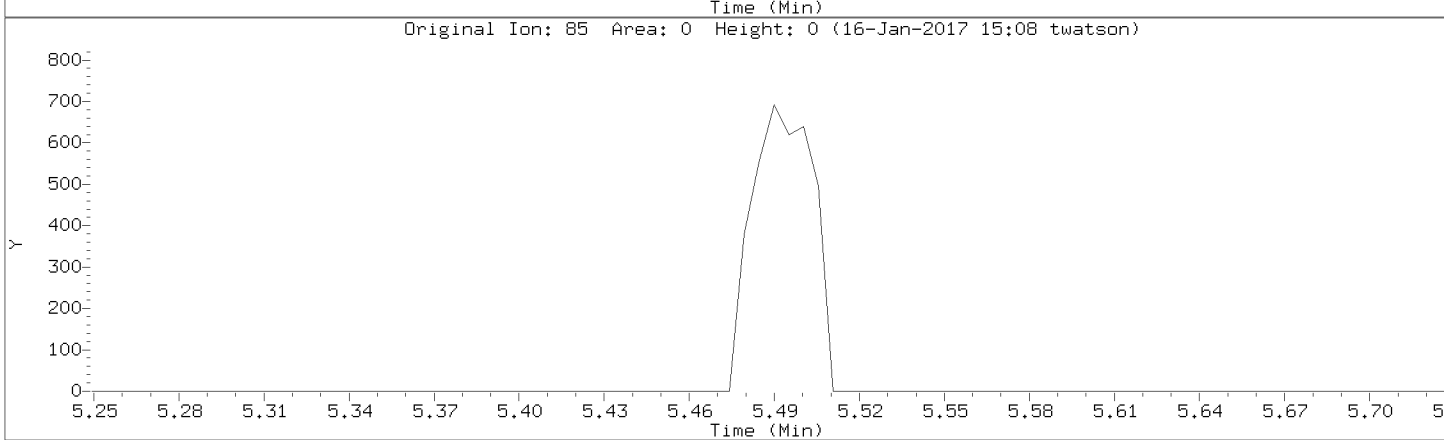


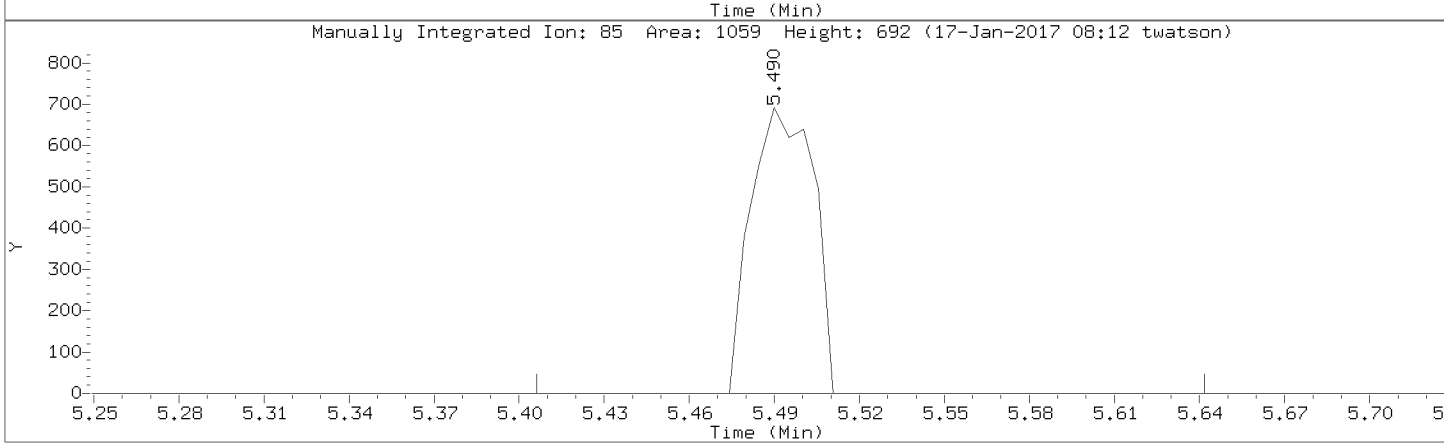
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a02cal2.d
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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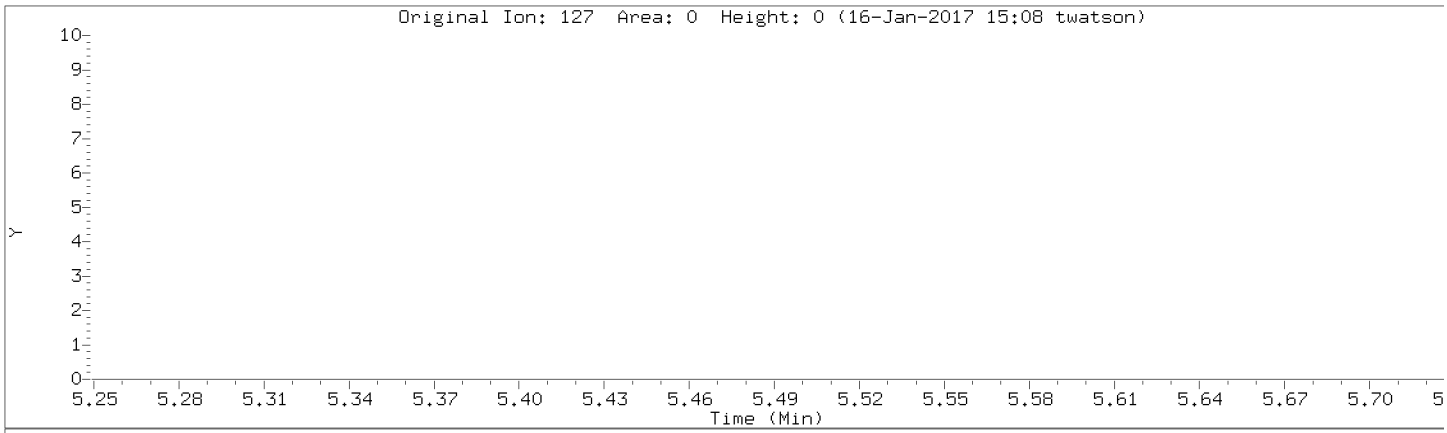
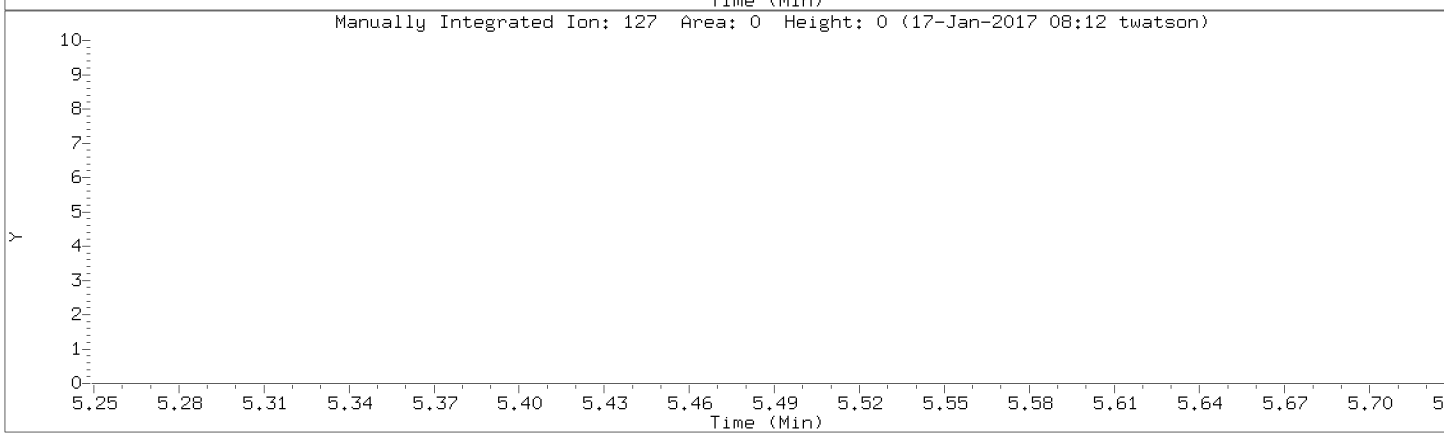
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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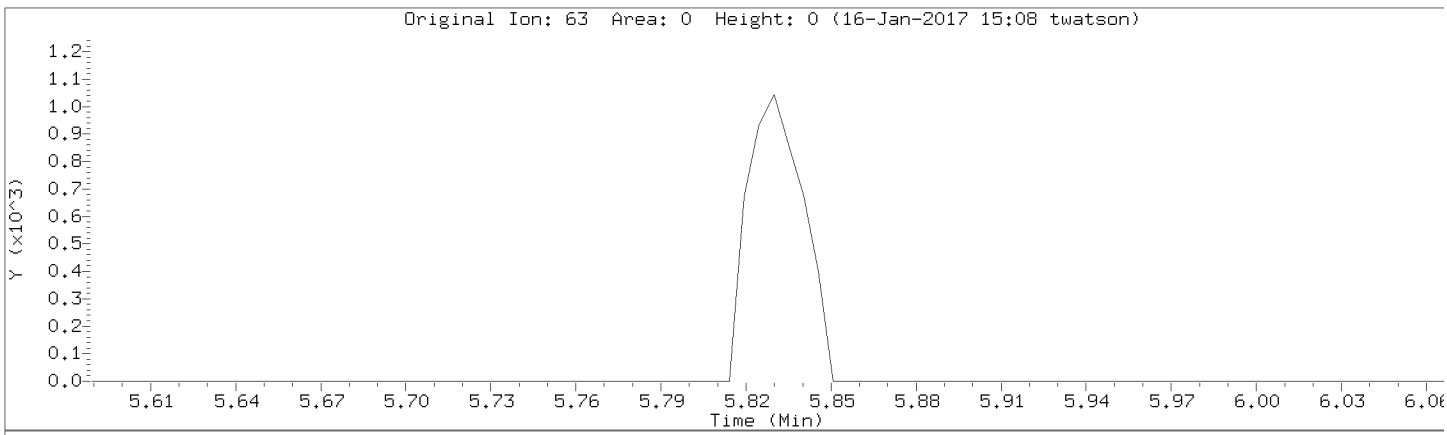
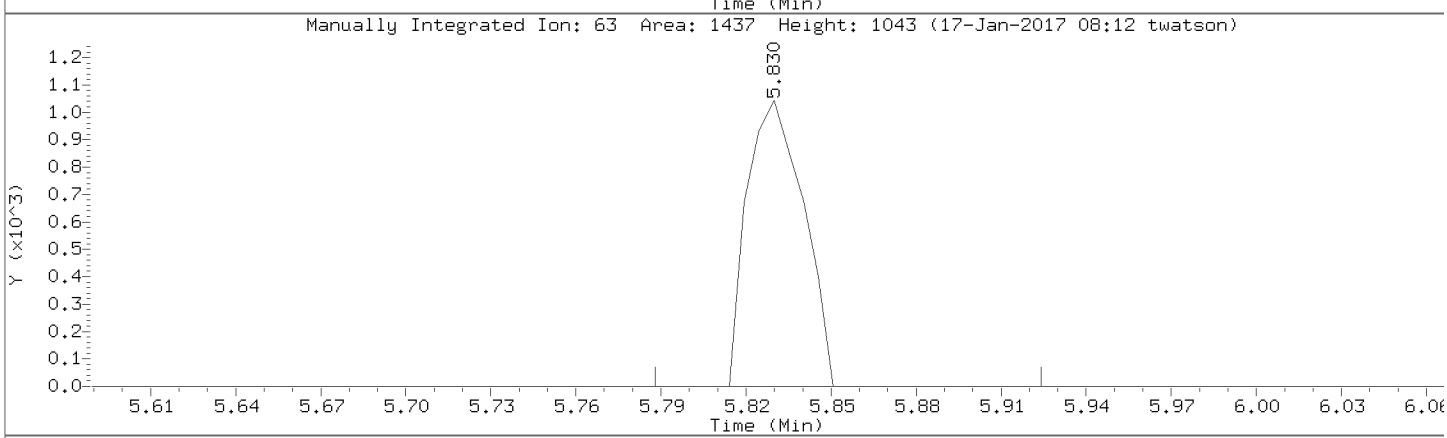
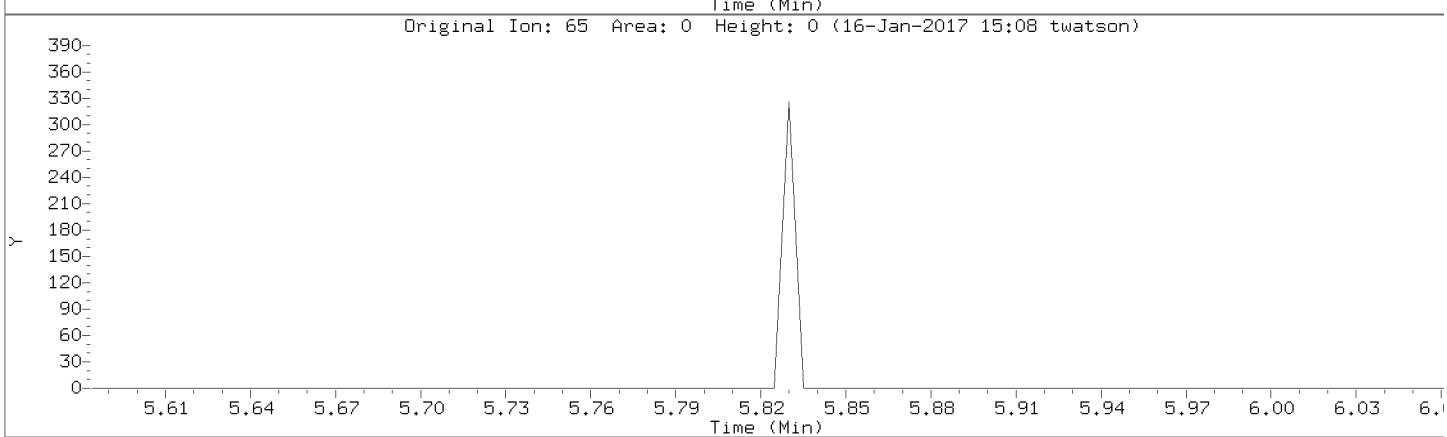
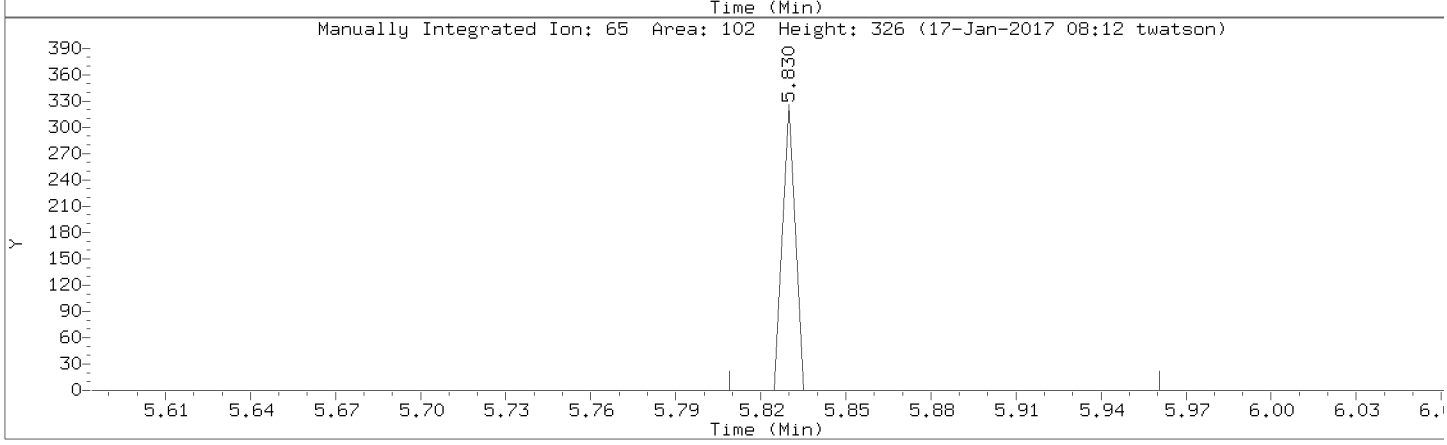
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8









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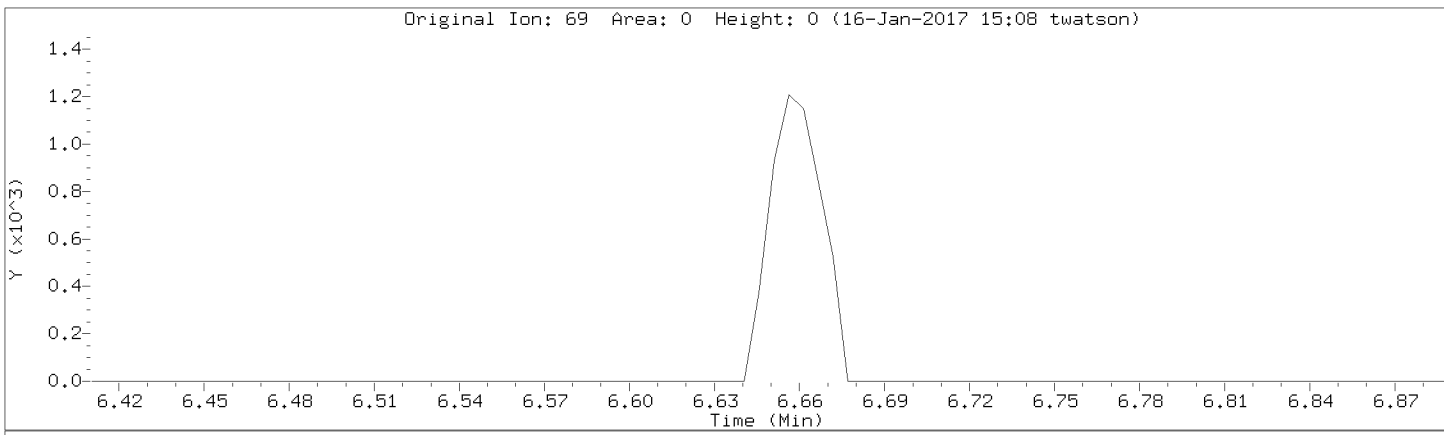
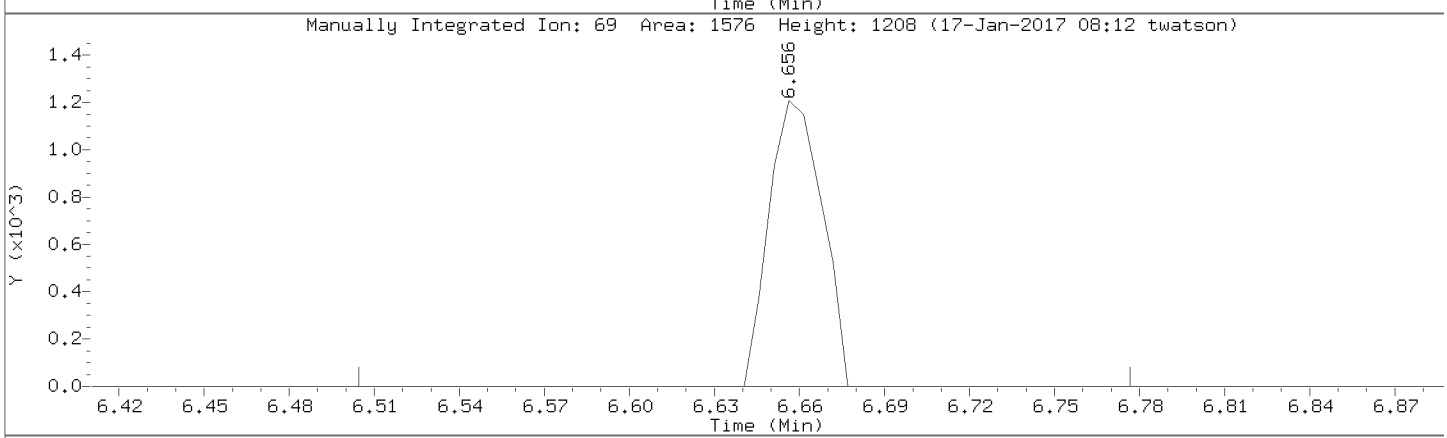
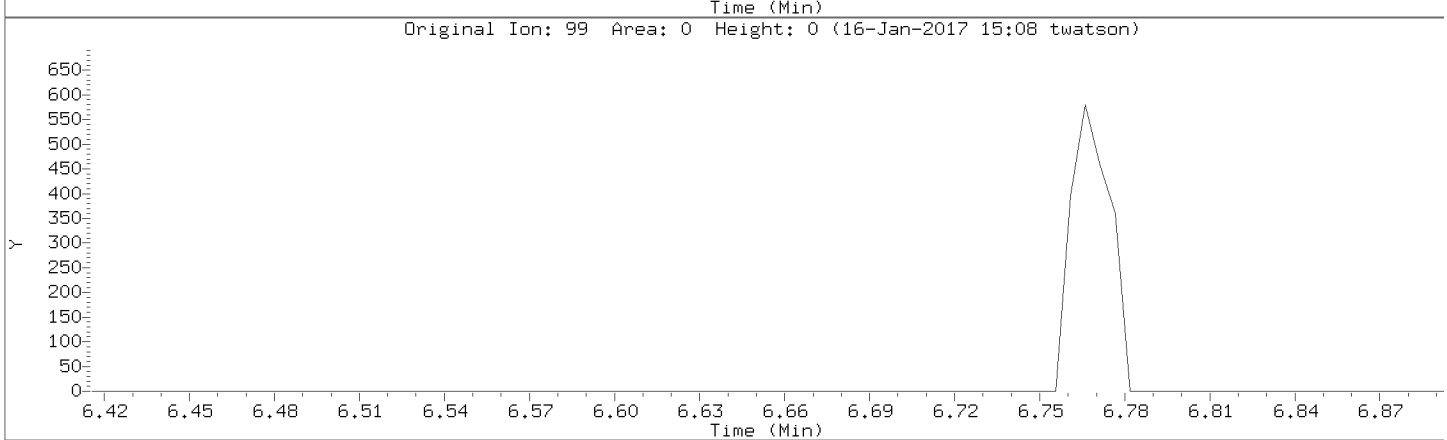
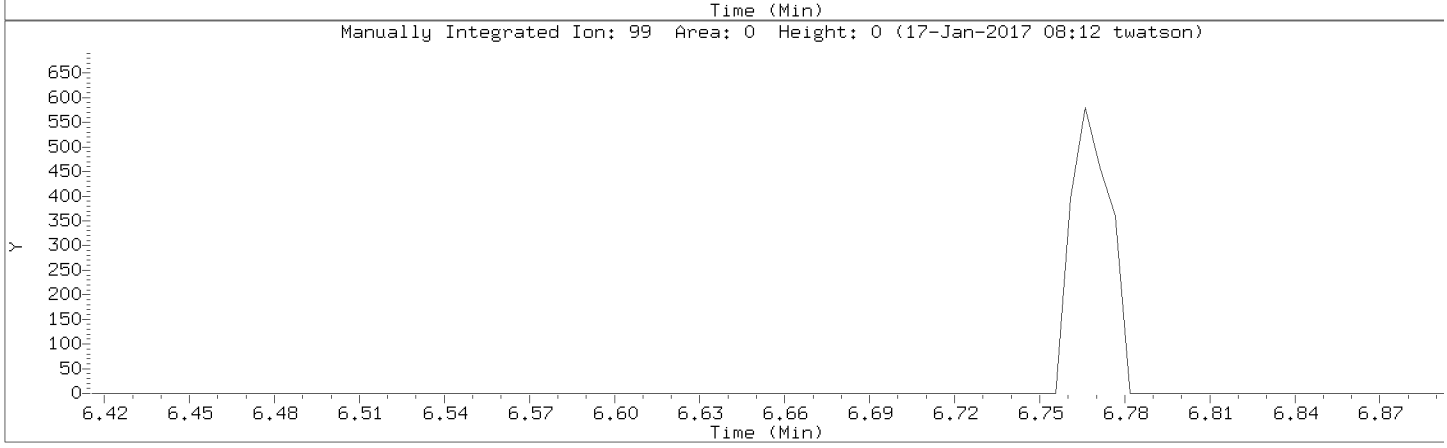
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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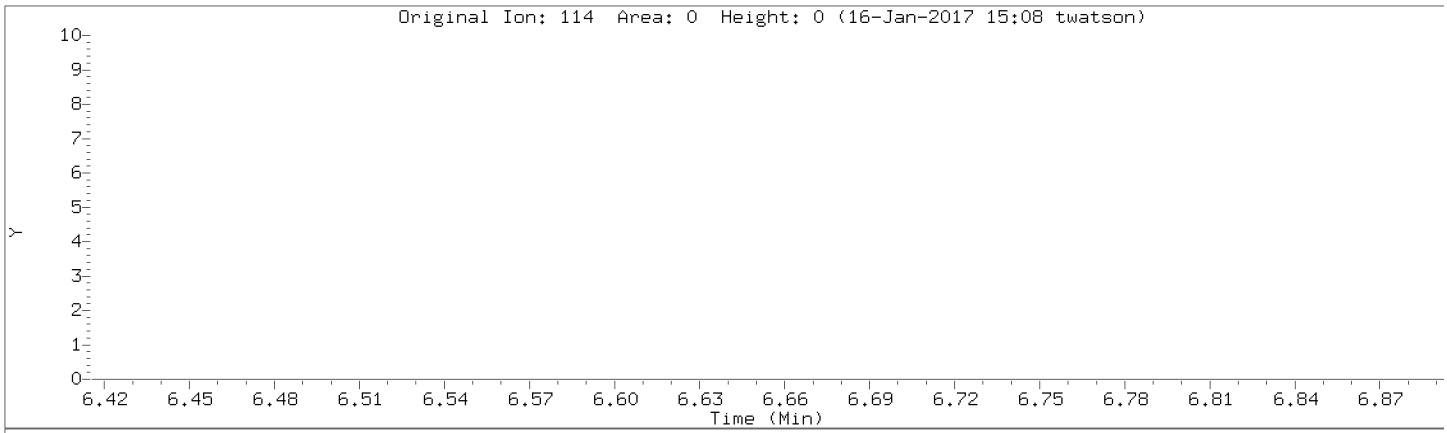
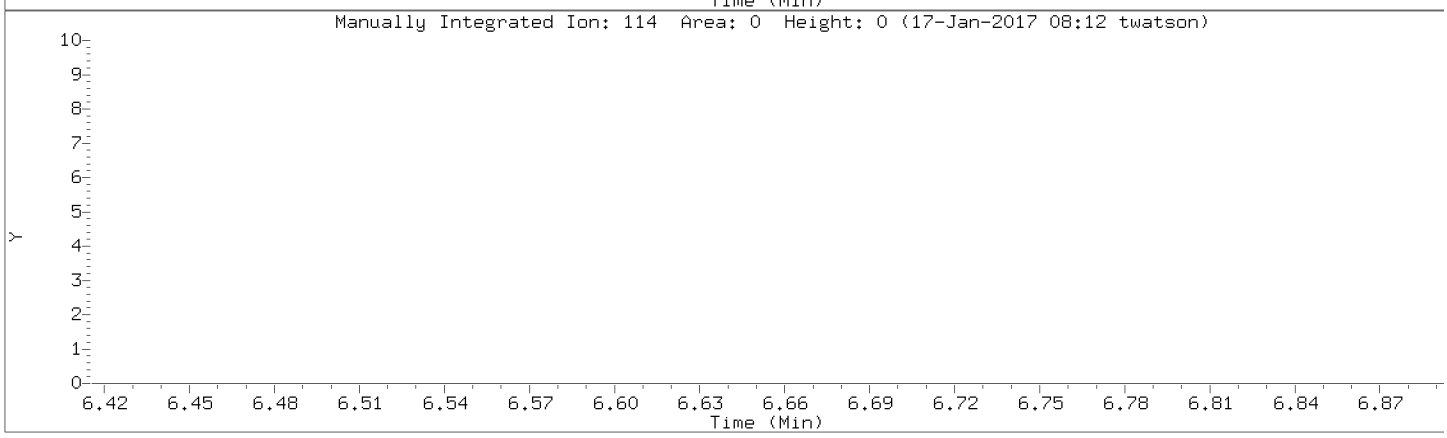
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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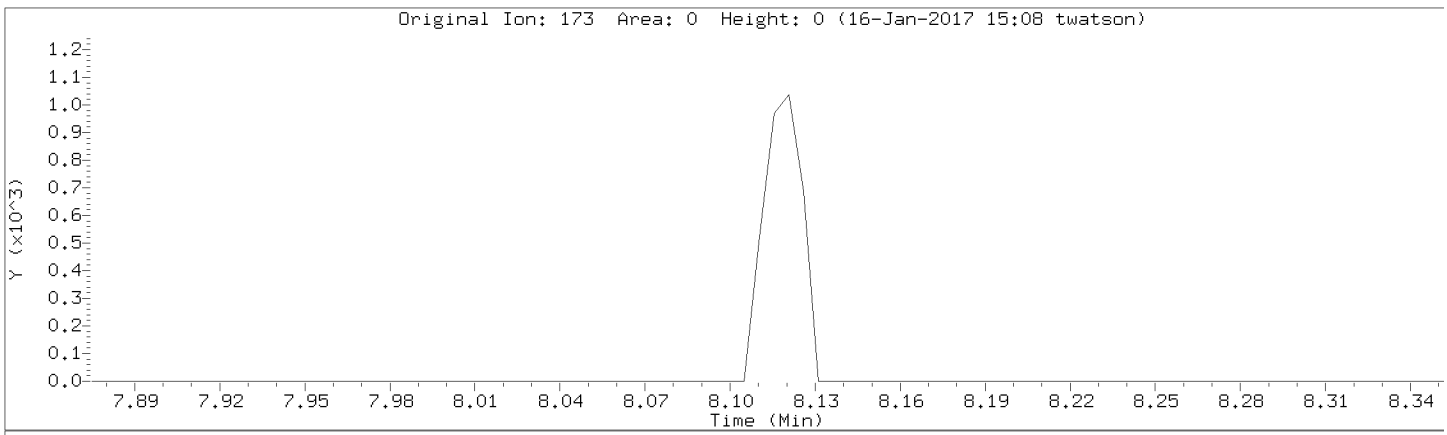
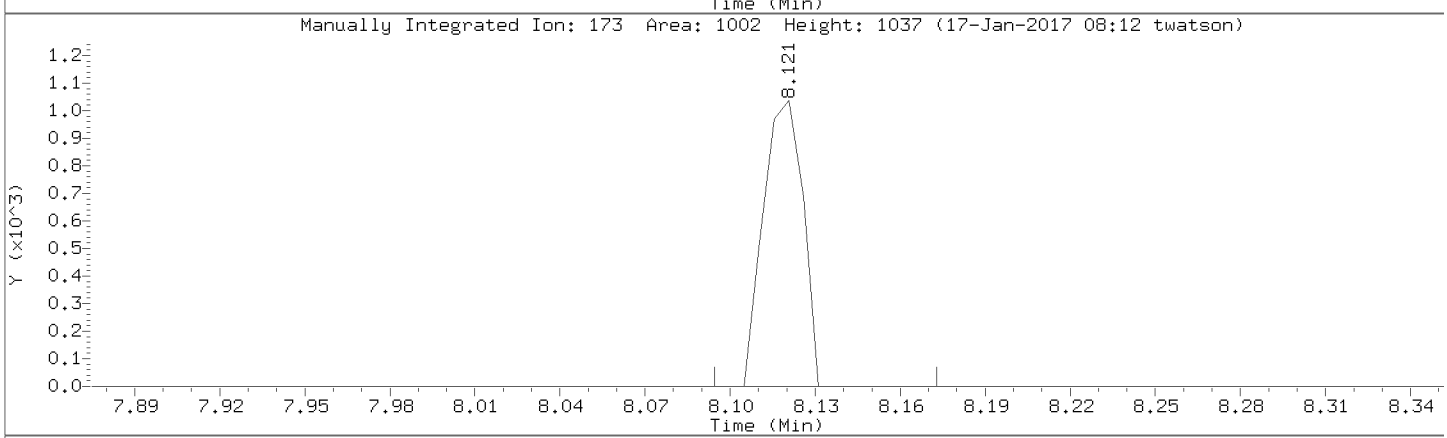
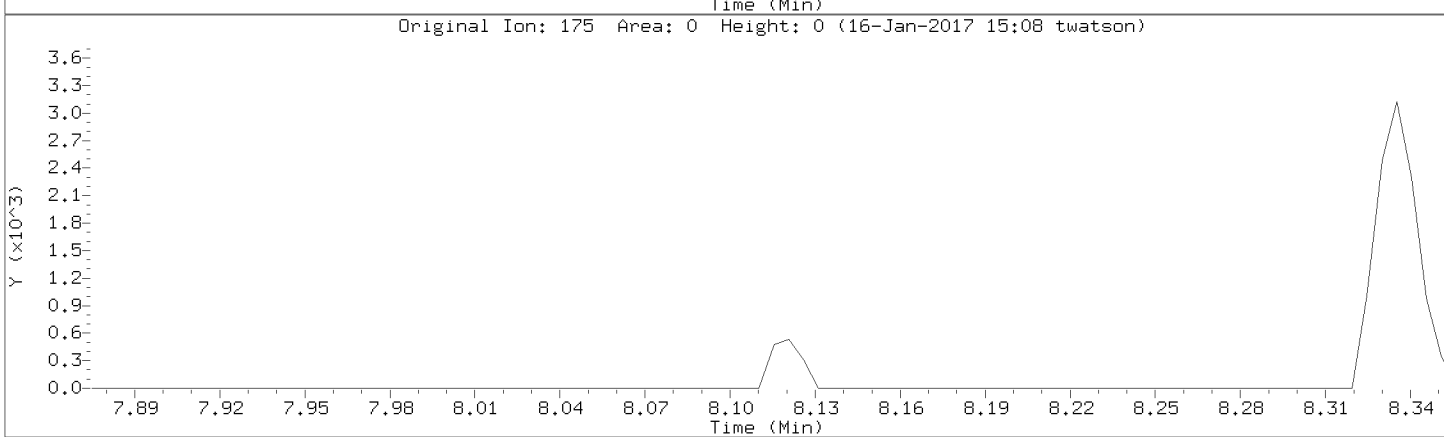
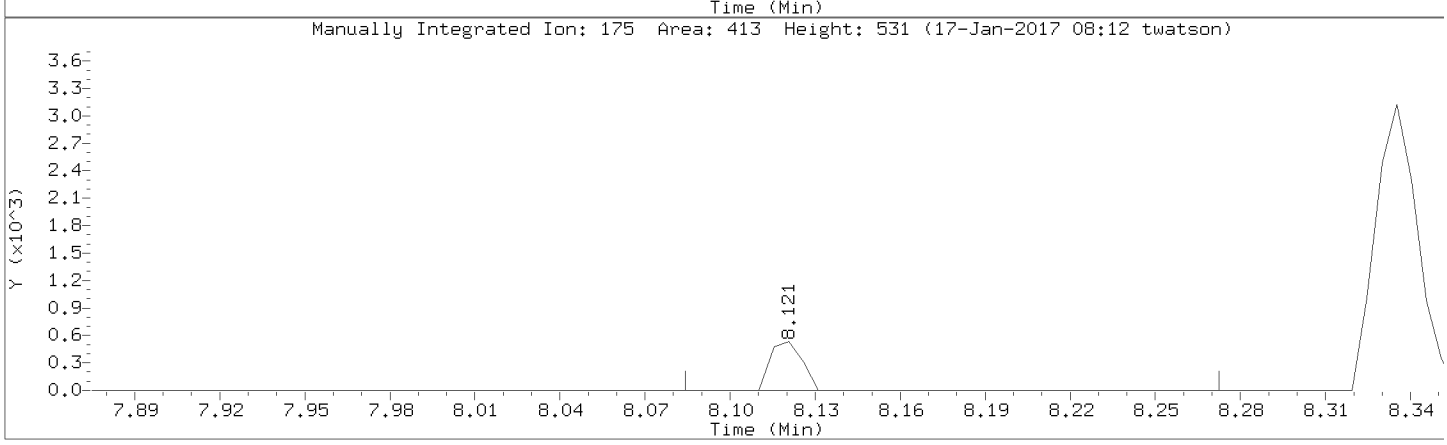
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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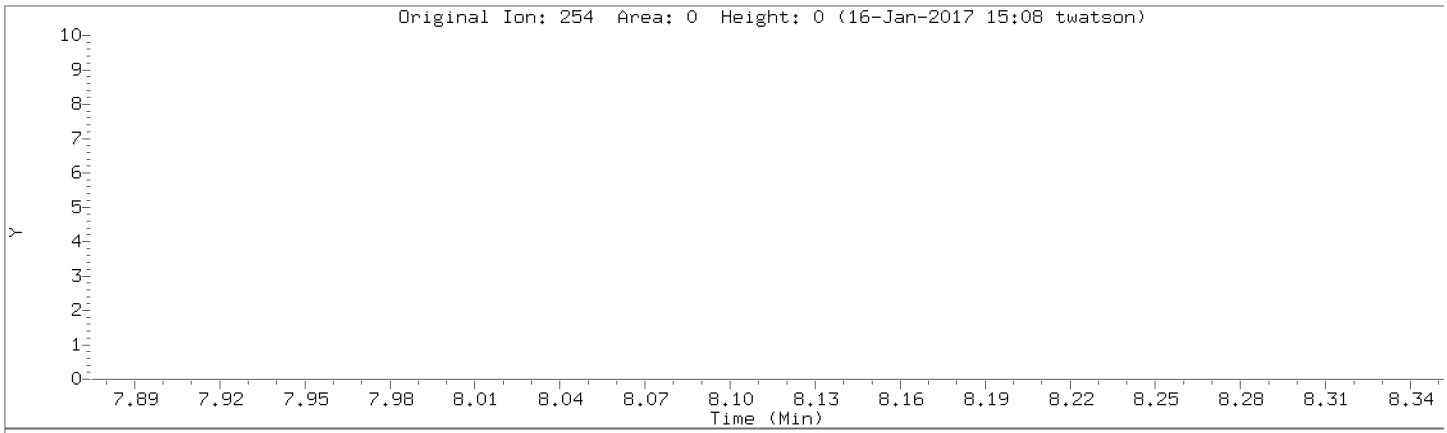
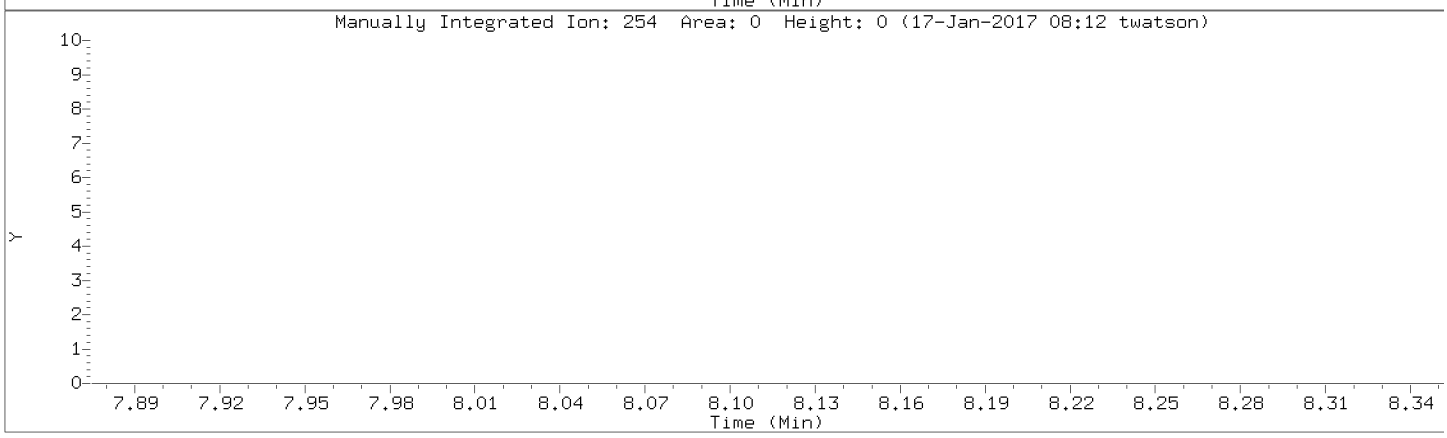
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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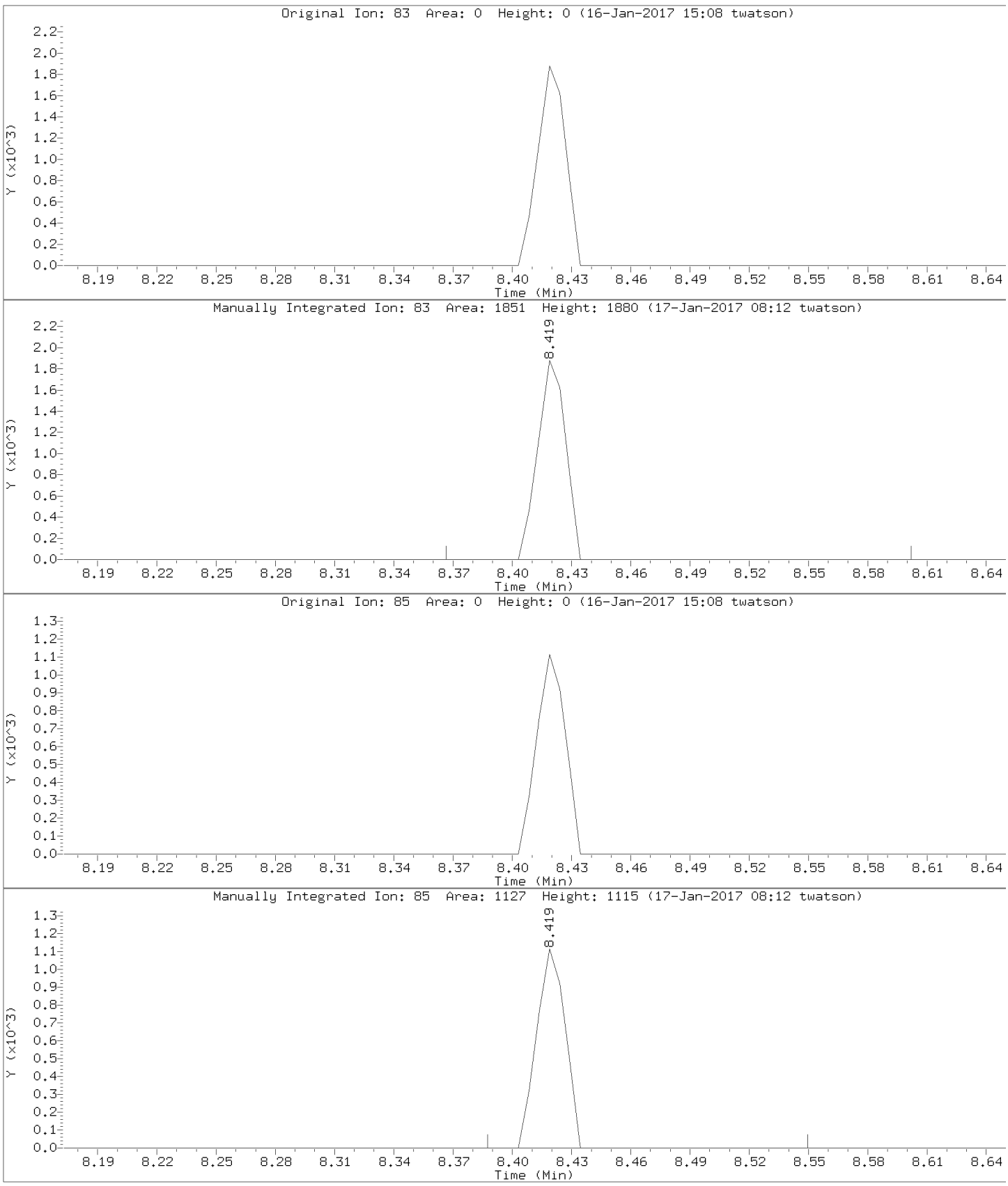
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5



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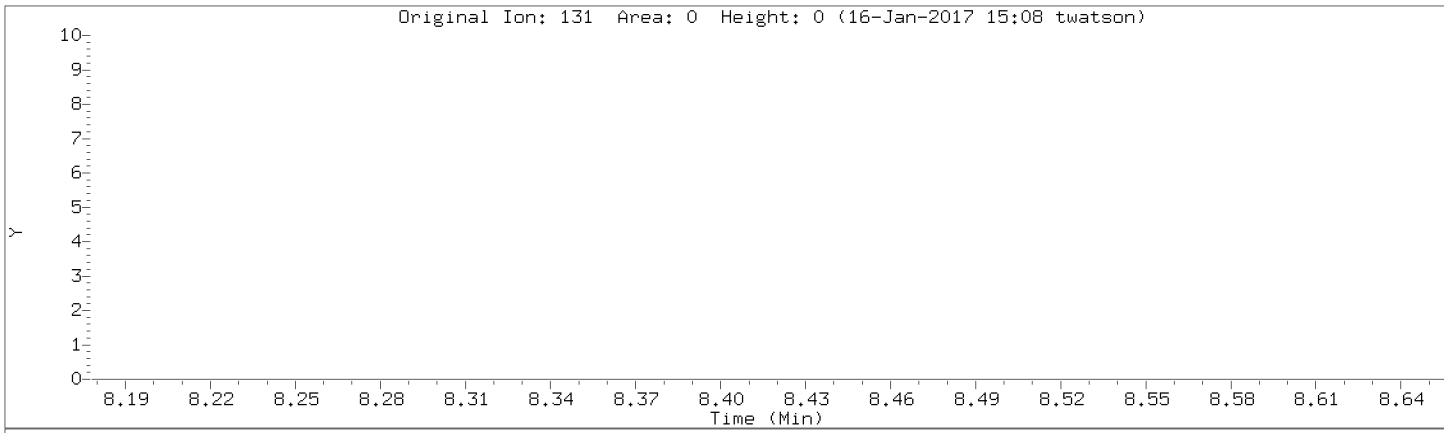
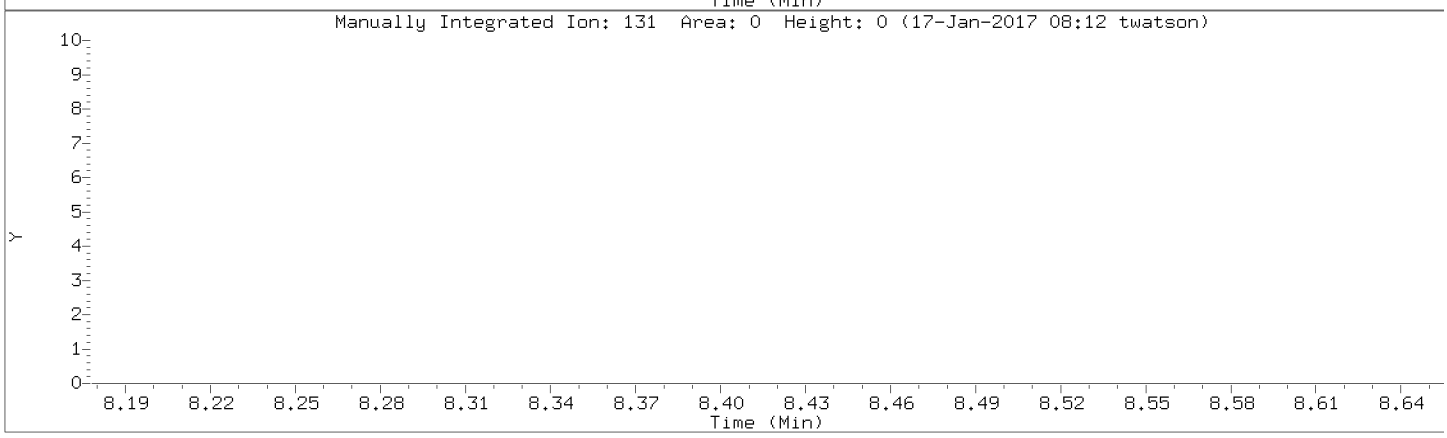
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





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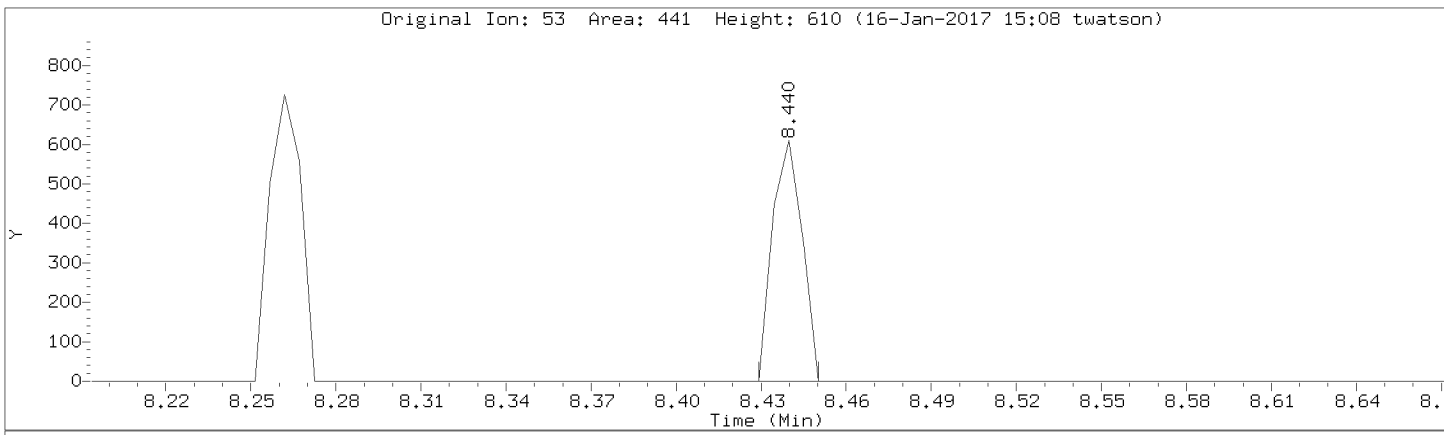
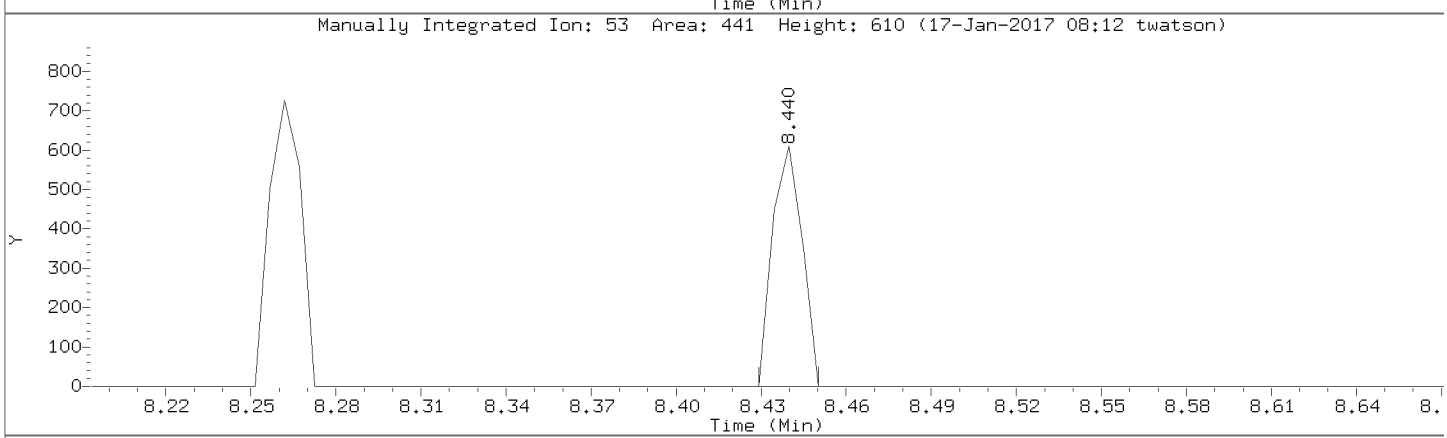
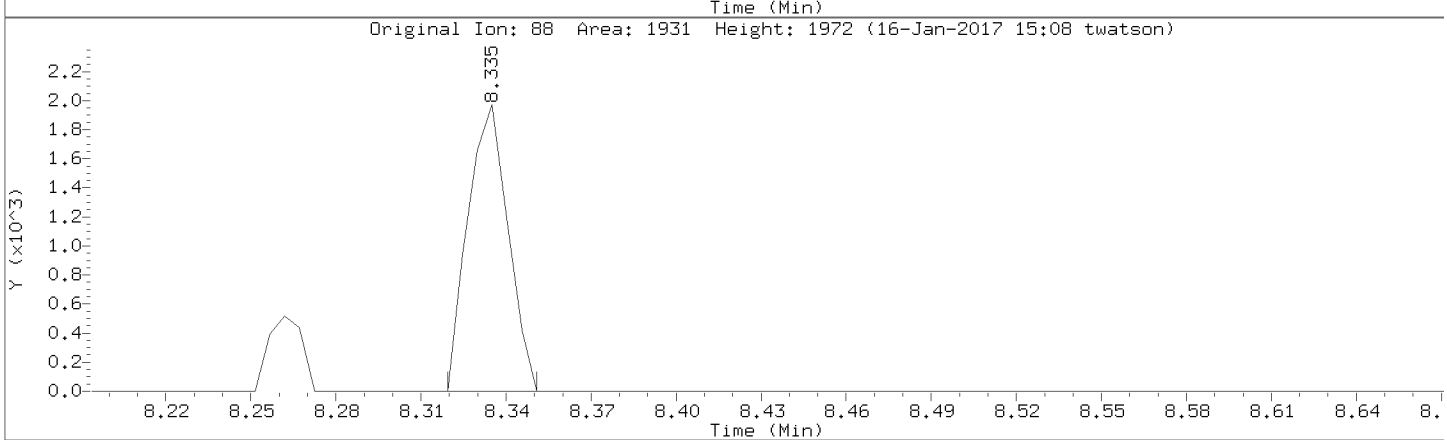
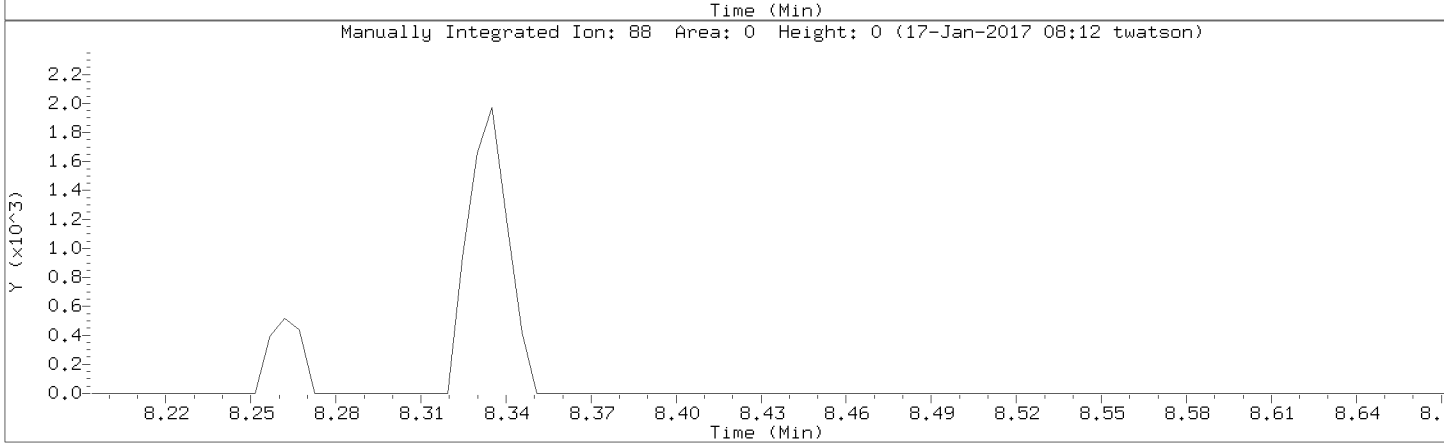
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:









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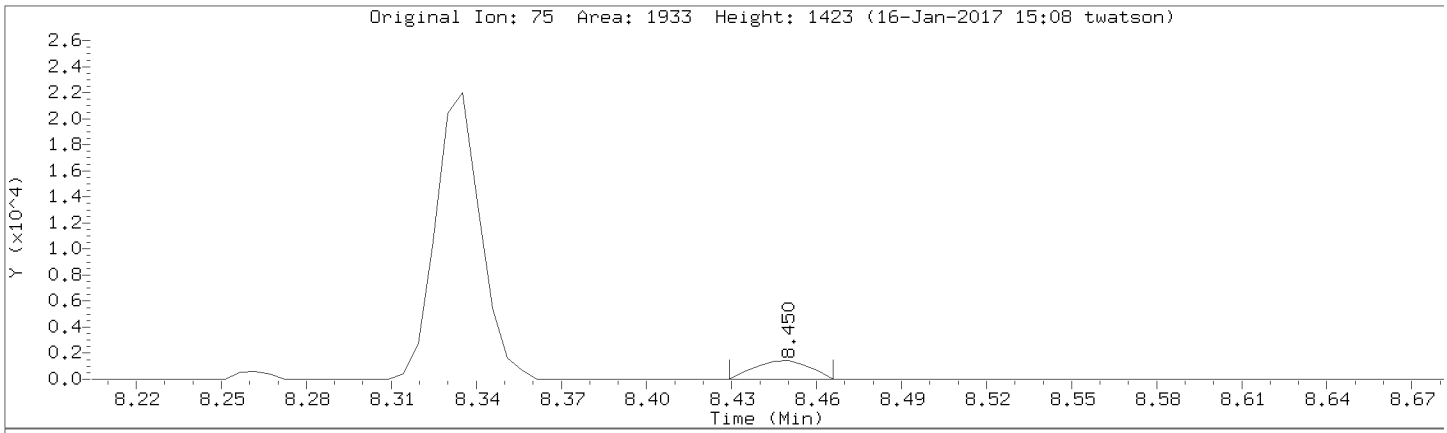
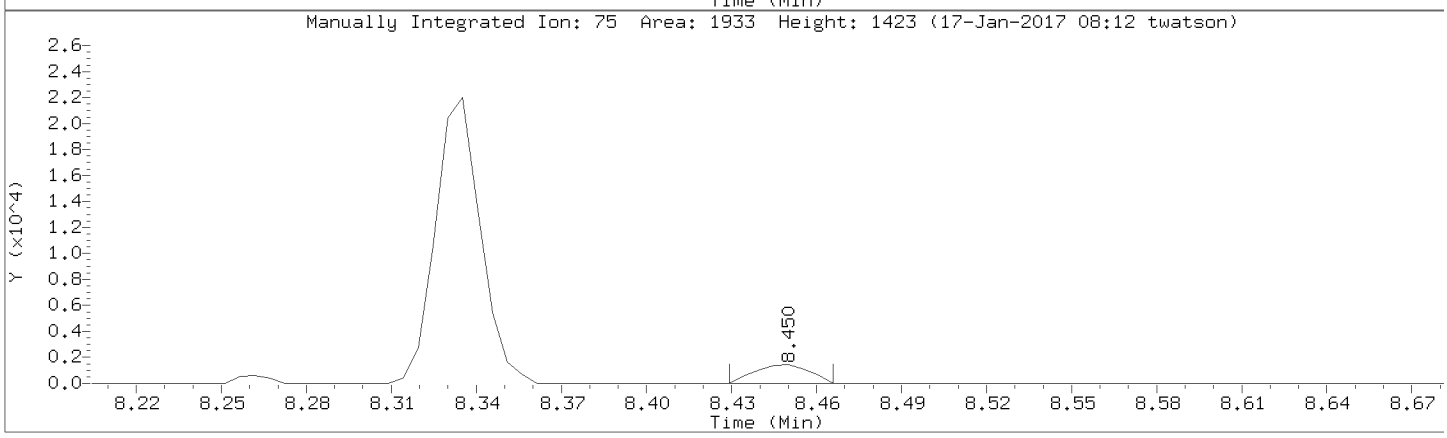
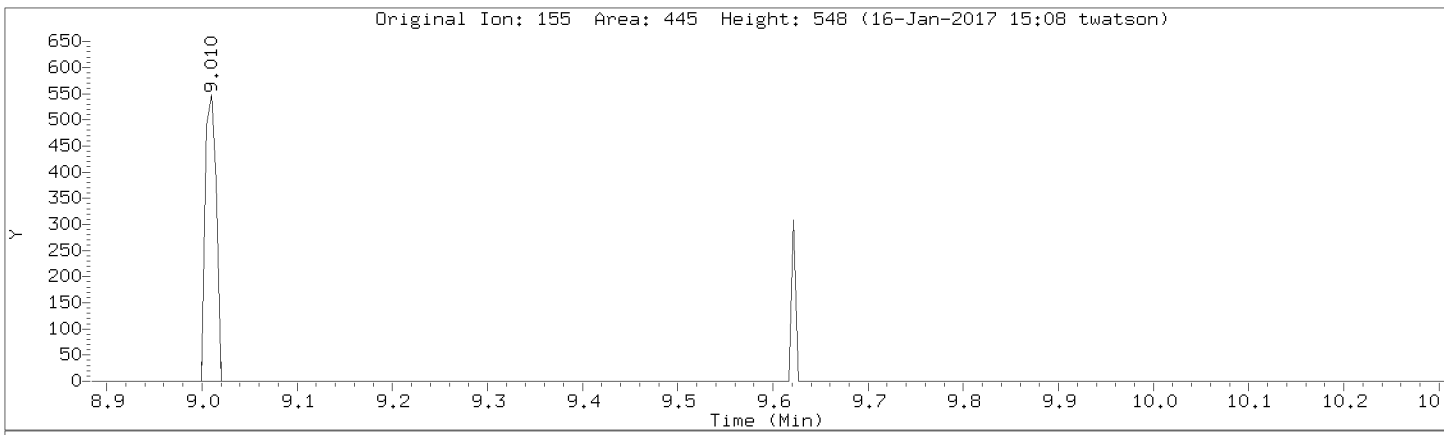
Lab Sample ID: 8260-CAL2,140015:0

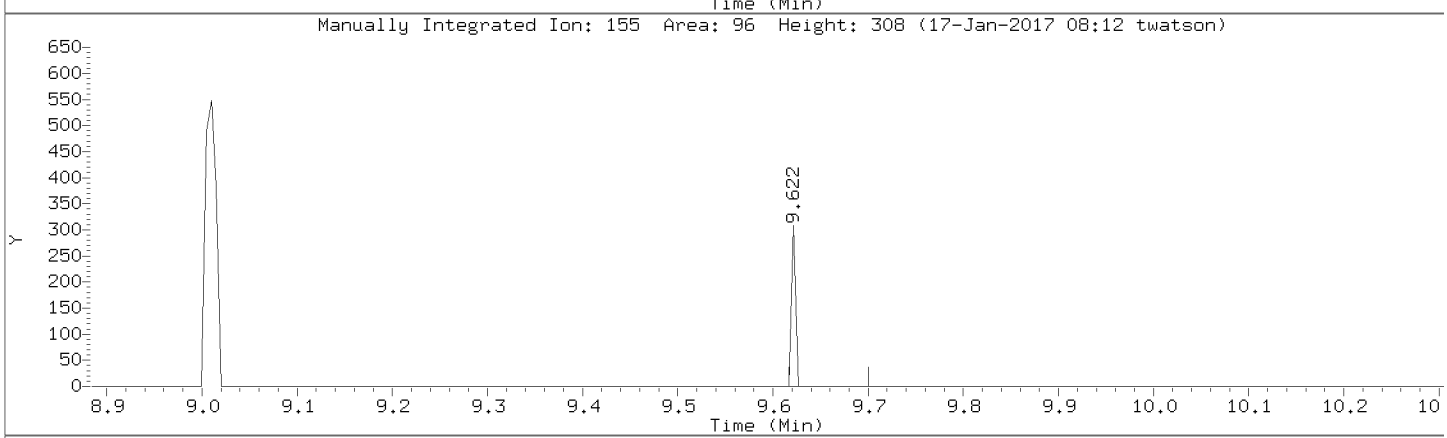


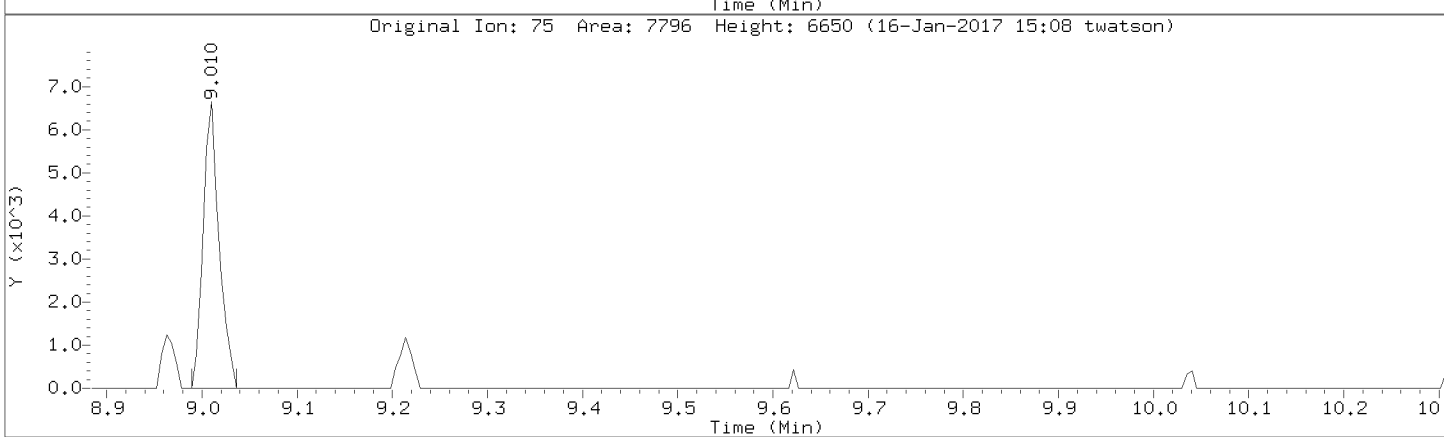


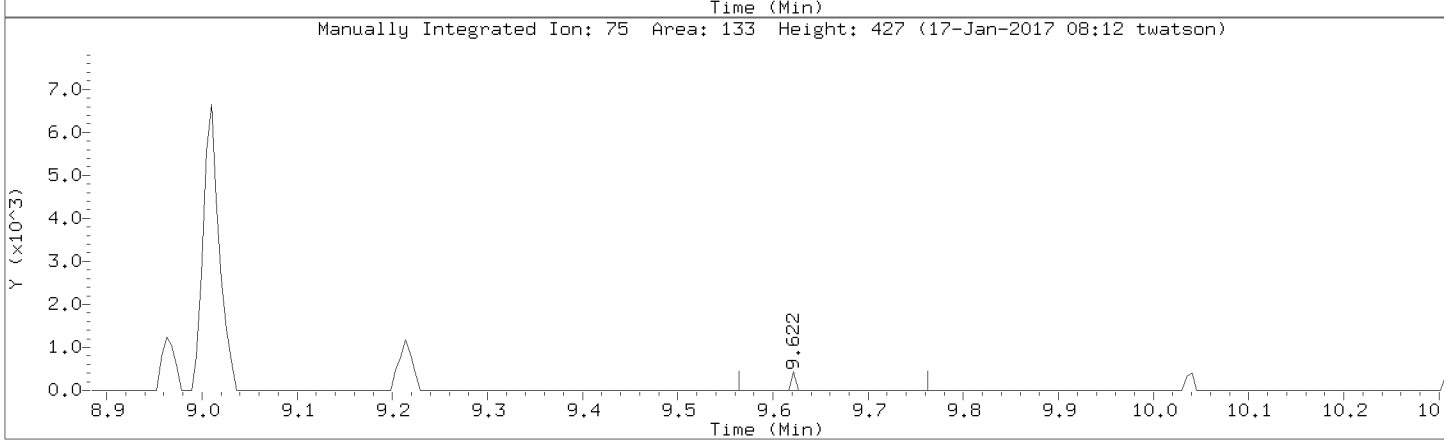
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a02cal2.d
Injection Date: 16-JAN-2017 13:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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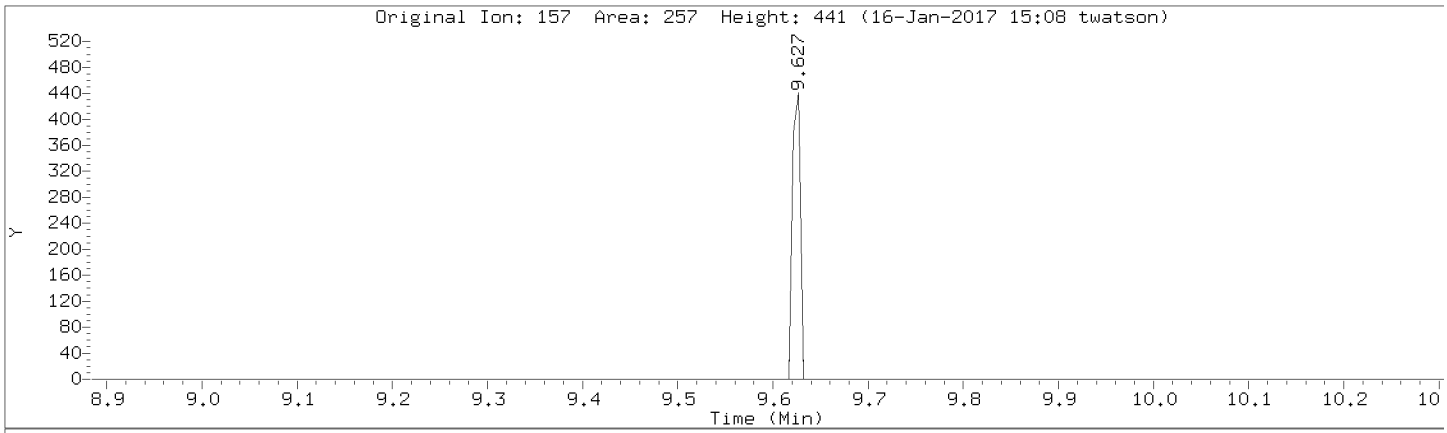
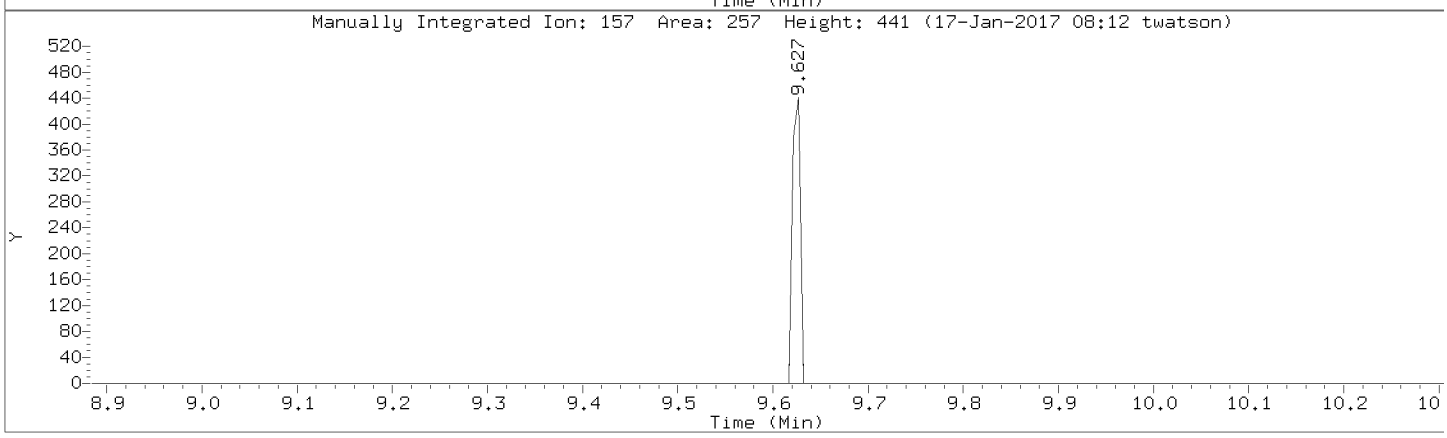
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL2,140015:0





Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a03cal3.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a03cal3.d
Lab Smp Id: 8260-CAL3,140016:0 Client Smp ID: 8260-CAL3,140016:0
Inj Date : 16-JAN-2017 14:07
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal3,140016:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.017	1.023	(0.229)	2033	5.00000	3.80(T)	
2 Chloromethane	50	1.143	1.148	(0.257)	4027	5.00000	4.98(M)	LT
3 Vinyl Chloride	62	1.159	1.159	(0.261)	2813	5.00000	4.50	
4 Bromomethane	94	1.316	1.316	(0.296)	830	5.00000	2.26	
5 Chloroethane	64	1.363	1.363	(0.307)	1148	5.00000	4.30(M)	
6 Trichlorofluoromethane	101	1.483	1.488	(0.334)	2883	5.00000	4.04	
7 Diethyl ether	74	1.619	1.619	(0.364)	1012	5.00000	4.21	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.368)	3152	5.00000	4.59	
9 Acrolein	56	1.692	1.697	(0.381)	5306	100.000	89.4	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.394)	2625	5.00000	4.37	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	2292	5.00000	4.47	
12 Acetone	43	1.765	1.771	(0.397)	4687	25.0000	27.1	
13 Iodomethane	142	1.849	1.854	(0.416)	3689	10.0000	7.24	
14 Carbon Disulfide	76	1.901	1.907	(0.428)	9976	5.00000	5.44	
20 Methyl Acetate	43	1.943	1.948	(0.437)	2232	5.00000	4.47(M)	NI
15 Acetonitrile	39	1.964	1.969	(0.442)	7465	5.00000	5.08	
16 allyl chloride	41	1.964	1.969	(0.442)	11521	10.0000	10.1	
17 Methylene Chloride	84	2.048	2.048	(0.461)	2700	5.00000	4.71	
18 tert-Butyl Alcohol	59	2.084	2.090	(0.469)	209	10.0000	3.33(M)	NI
19 Acrylonitrile	53	2.189	2.189	(0.493)	4220	20.0000	19.4	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.499)	7435	5.00000	4.76	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a03cal3.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.236	2.236	(0.503)	2578	5.00000	4.62	
23 n-Hexane	57	2.424	2.430	(0.546)	4709	5.00000	4.30(M)	NI
25 Vinyl Acetate	43	2.539	2.545	(0.572)	24972	20.0000	18.8	
26 1,1-Dichloroethane	63	2.555	2.560	(0.575)	5574	5.00000	4.78	
28 Chloroprene	53	2.613	2.623	(0.588)	4599	5.00000	4.44	
29 2-Butanone	43	3.036	3.047	(0.683)	6473	25.0000	27.5(M)	NI
30 1,2-Dichloroethene (cis)	96	3.062	3.073	(0.689)	2975	5.00000	4.80	
31 2,2-Dichloropropane	77	3.068	3.078	(0.690)	4078	5.00000	4.74	
27 Ethyl Acetate	88	3.083	3.094	(0.694)	474	40.0000	25.9	
38 Methacrylonitrile	41	3.261	3.266	(0.734)	1781	5.00000	4.80	
33 Bromochloromethane	49	3.319	3.324	(0.747)	2898	5.00000	4.98	
34 Tetrahydrofuran	42	3.340	3.340	(0.752)	897	5.00000	4.91(M)	NI
35 Chloroform	83	3.429	3.444	(0.772)	5291	5.00000	4.80	
36 1,1,1-Trichloroethane	97	3.617	3.633	(0.814)	4087	5.00000	4.44	
$ 37 Dibromofluoromethane (S)	113	3.622	3.627	(0.815)	30528	50.0000	50.3	
39 Cyclohexane	56	3.716	3.727	(0.836)	5437	5.00000	4.46	
151 n-butyl chloride	56	3.779	3.789	(0.851)	6428	5.00000	4.55	
40 Carbon Tetrachloride	117	3.821	3.831	(0.860)	3555	5.00000	4.56	
41 1,1-Dichloropropene	75	3.826	3.831	(0.861)	3749	5.00000	4.42	
42 Benzene	78	4.067	4.077	(0.915)	11567	5.00000	4.53	
43 1,2-Dichloroethane	62	4.150	4.161	(0.934)	3794	5.00000	4.62(M)	NI
24 Isobutyl alcohol	43	4.156	4.171	(0.935)	23965	5.00000	4.71(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.952)	11568	5.00000	4.22	
* 46 Fluorobenzene (IS)	96	4.443	4.454	(1.000)	121116	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.099)	2988	5.00000	4.63	
48 Methylcyclohexane	55	5.144	5.155	(1.158)	4451	5.00000	4.17	
49 1,2-Dichloropropane	63	5.181	5.191	(1.166)	3338	5.00000	4.73(M)	NI
50 Dibromomethane	93	5.275	5.285	(1.187)	1775	5.00000	4.82	
52 Methyl methacrylate	69	5.275	5.285	(1.187)	1644	5.00000	4.56	
53 Bromodichloromethane	83	5.495	5.500	(1.237)	4211	5.00000	4.77(M)	NI
54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	3318	10.0000	9.15	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	5002	5.00000	4.71	
56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	16728	25.0000	23.7	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	119030	50.0000	49.8	
58 Toluene	91	6.326	6.331	(0.841)	14260	5.00000	5.00	
59 trans-1,3-Dichloropropene	75	6.588	6.598	(0.876)	4187	5.00000	4.59	
60 Ethyl Methacrylate	69	6.656	6.661	(0.885)	3505	5.00000	4.79(M)	NI
61 1,1,2-Trichloroethane	83	6.765	6.776	(0.899)	2068	5.00000	4.50	
62 Tetrachloroethene	166	6.818	6.828	(0.906)	3455	5.00000	4.52	
63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	4542	5.00000	4.83	
64 2-Hexanone	43	6.954	6.959	(0.924)	12730	25.0000	24.6	
65 Dibromochloromethane	129	7.085	7.090	(0.942)	3132	5.00000	4.67	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	2637	5.00000	4.70	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	98460	50.0000		
68 Chlorobenzene	112	7.545	7.555	(1.003)	9552	5.00000	4.93	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	3282	5.00000	4.63	
70 Ethylbenzene	106	7.623	7.628	(1.013)	4929	5.00000	4.55	
71 m&p-Xylene	106	7.717	7.728	(1.026)	12621	10.0000	9.86	
72 o-Xylene	106	7.979	7.984	(1.060)	6195	5.00000	4.63	
73 Styrene	104	7.995	8.000	(1.063)	11123	5.00000	4.78	
74 Bromoform	173	8.120	8.125	(0.901)	2217	5.00000	4.71(M)	NI
75 Isopropylbenzene	105	8.219	8.225	(1.092)	16782	5.00000	4.58	
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	50350	50.0000	50.2	
77 Bromobenzene	77	8.413	8.418	(1.118)	8268	5.00000	5.70	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a03cal3.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
78 1,1,2,2-Tetrachloroethane	83	8.418	8.423	(0.934)	3825	5.00000	4.71	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	1165	5.00000	5.02	
80 1,2,3-Trichloropropane	110	8.450	8.455	(0.938)	955	5.00000	4.87	
81 n-Propylbenzene	91	8.476	8.481	(0.941)	20686	5.00000	4.84	
82 2-Chlorotoluene	91	8.528	8.538	(0.947)	12282	5.00000	4.87	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	15001	5.00000	4.94	
84 4-Chlorotoluene	126	8.607	8.612	(0.955)	4291	5.00000	4.88	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	12638	5.00000	4.77	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	15722	5.00000	4.96	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	19071	5.00000	4.50	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	8661	5.00000	5.01	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	15913	5.00000	4.71	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	57723	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	8830	5.00000	5.02	
92 n-Butylbenzene	91	9.198	9.203	(1.021)	15647	5.00000	4.74	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	8322	5.00000	4.92	
94 1,2-Dibromo-3-chloropropane	155	9.626	9.632	(1.068)	671	5.00000	4.54	
95 1,2,4-Trichlorobenzene	180	10.040	10.050	(1.114)	6627	5.00000	4.98	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	3622	5.00000	4.55	
97 Naphthalene	128	10.191	10.196	(1.131)	13110	5.00000	4.38	
98 1,2,3-Trichlorobenzene	180	10.306	10.317	(1.144)	6082	5.00000	4.61	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	6214	5.00000	4.57	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	5832	5.00000	4.77	

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Review Codes Legend

:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

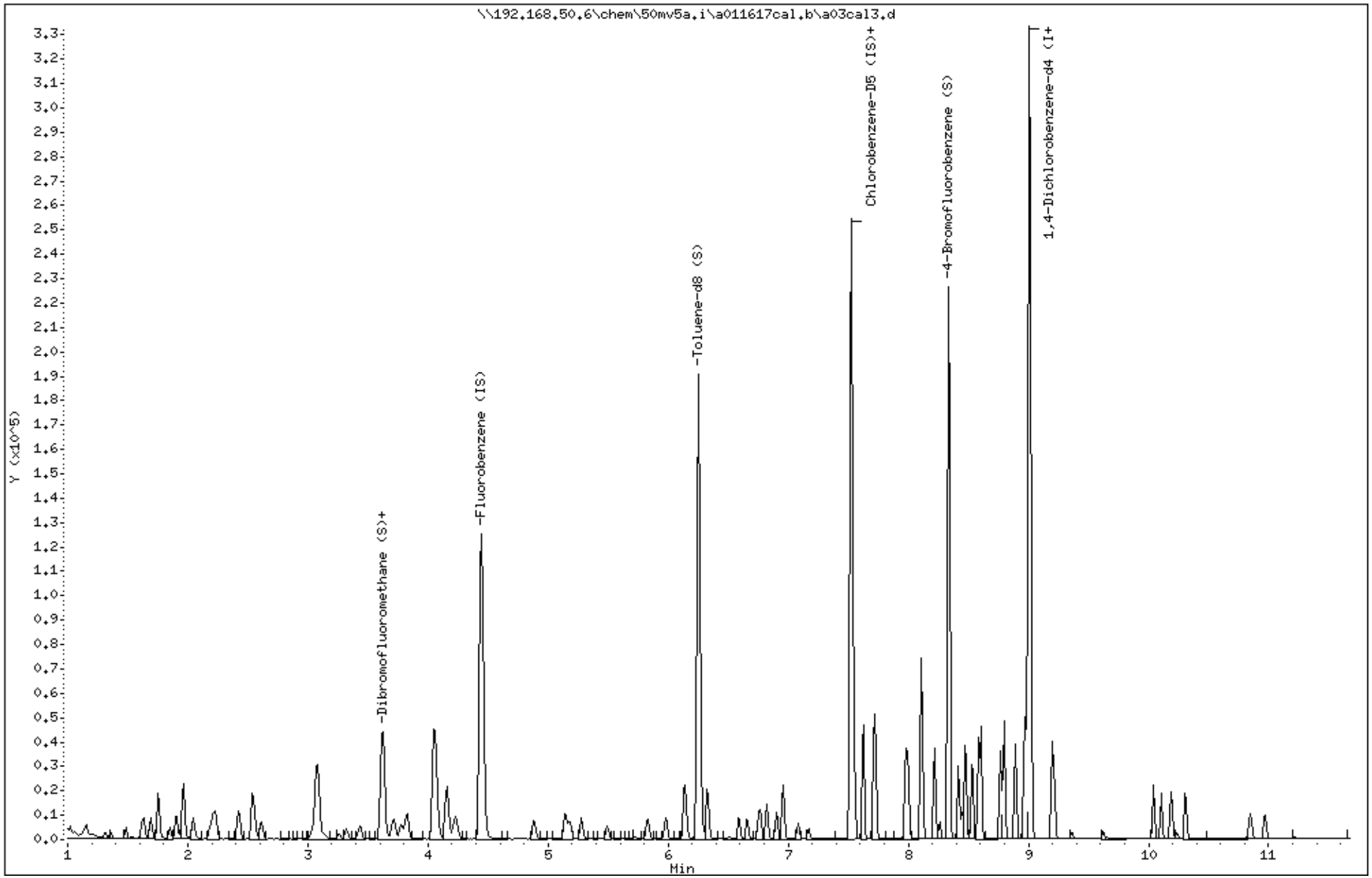
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a03cal3.d
Date : 16-JAN-2017 14:07
Client ID: 8260-CAL3,140016:0
Sample Info: 8260-CAL3,140016:0

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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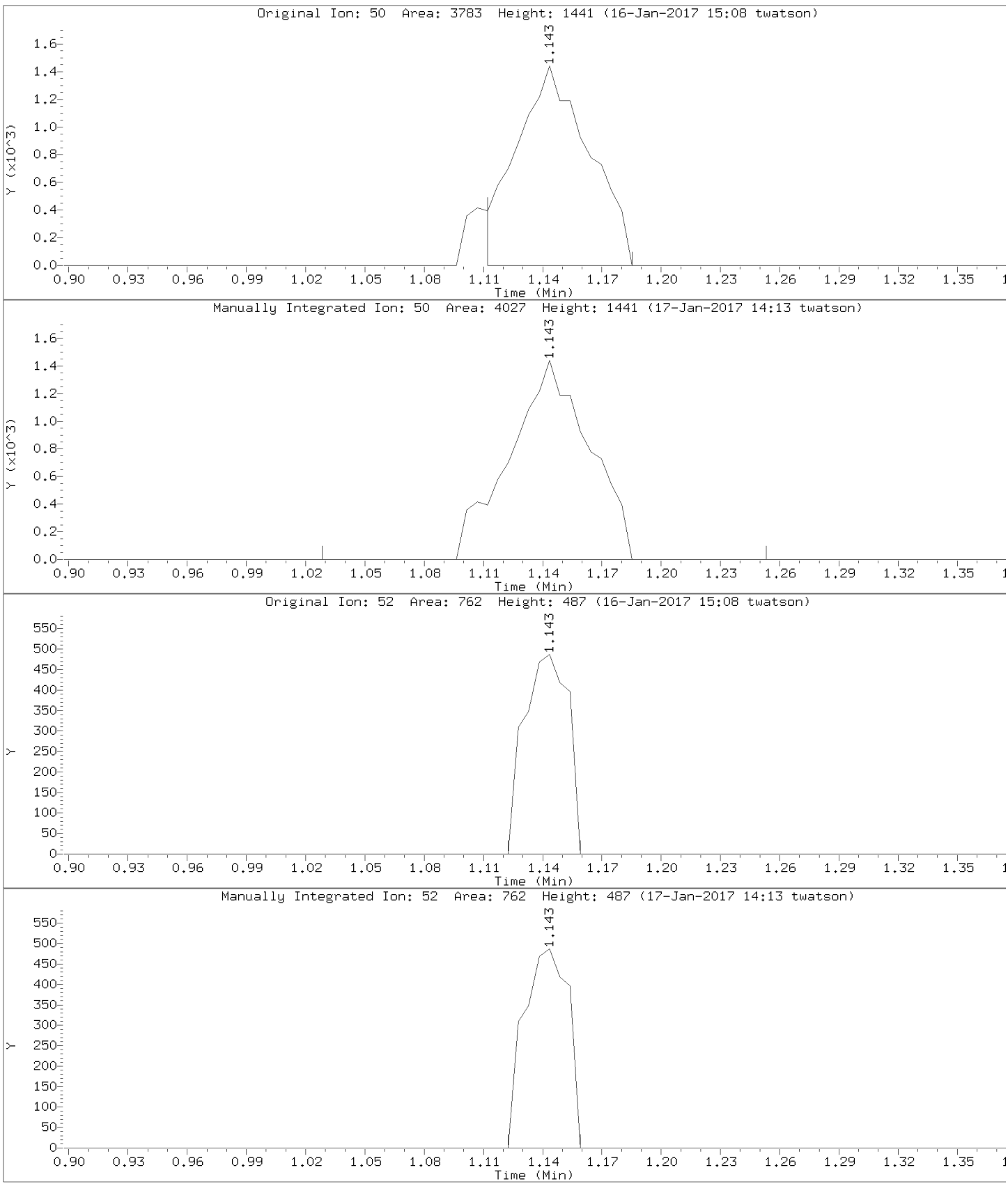
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Chloromethane Review Code: LT
CAS Number: 74-87-3



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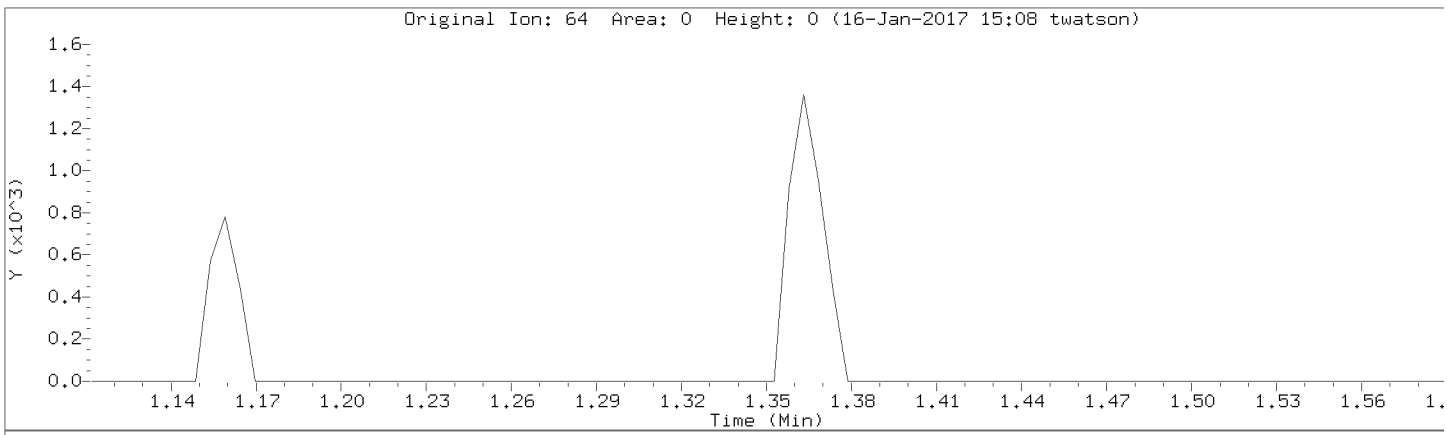
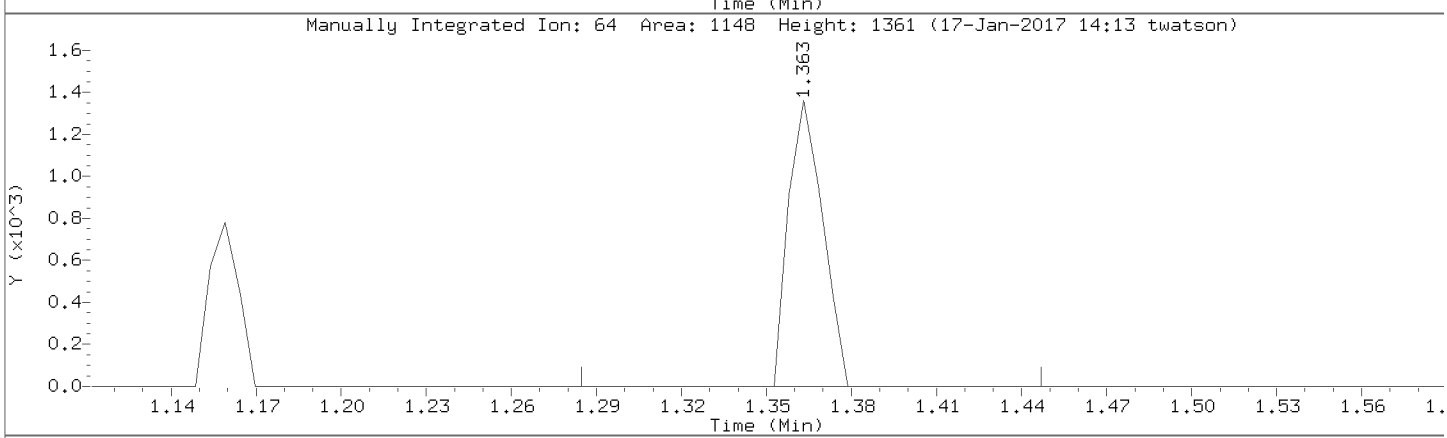
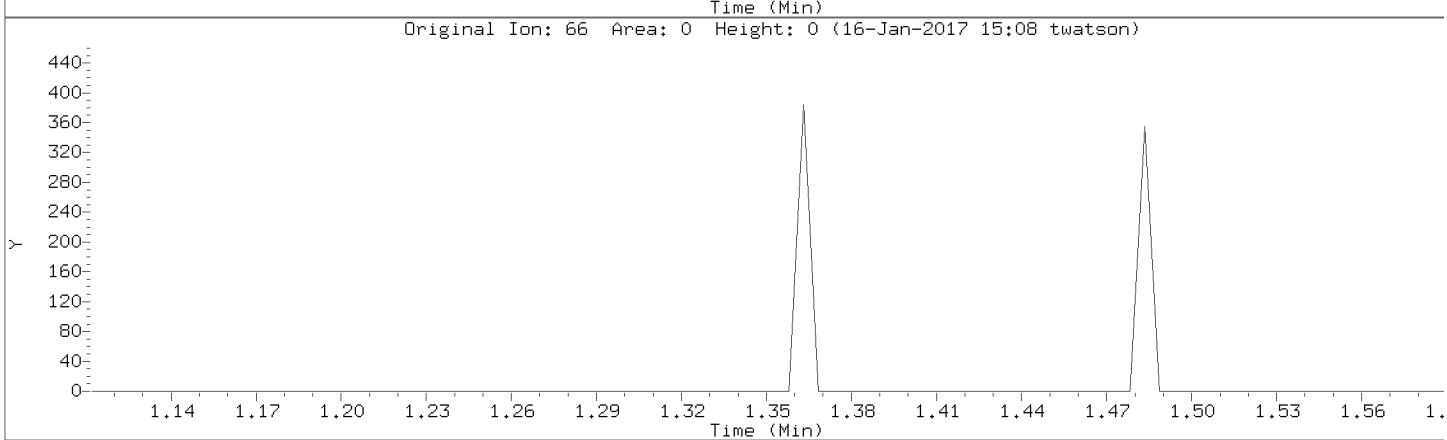
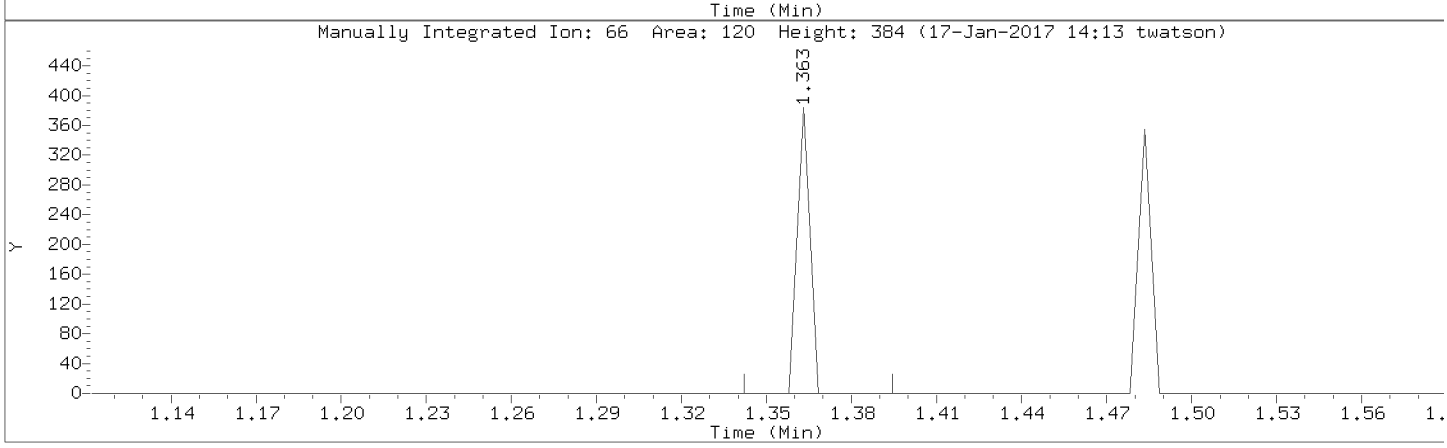
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Chloroethane Review Code:
CAS Number: 75-00-3









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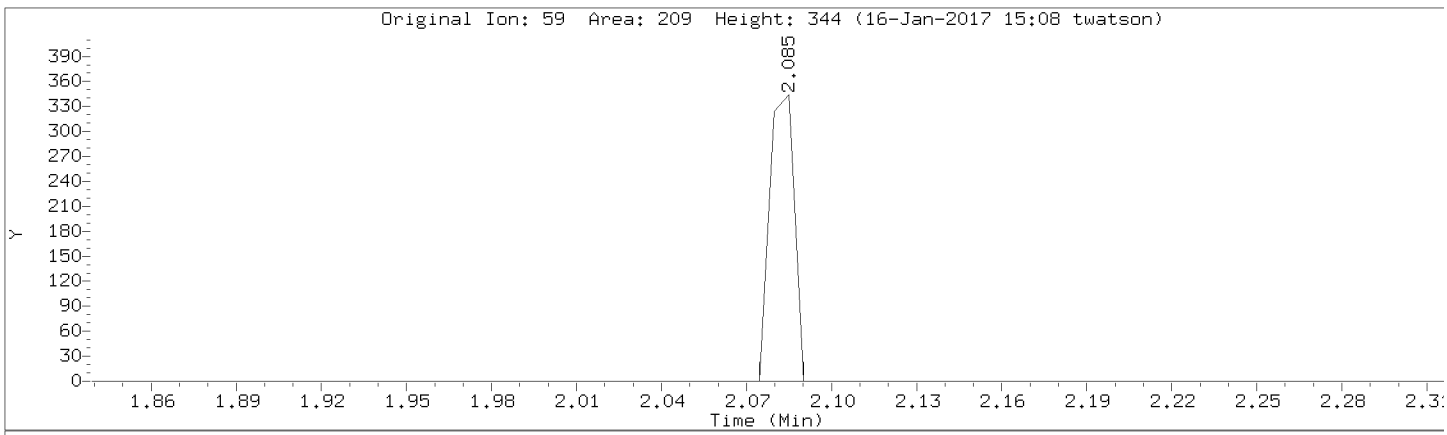
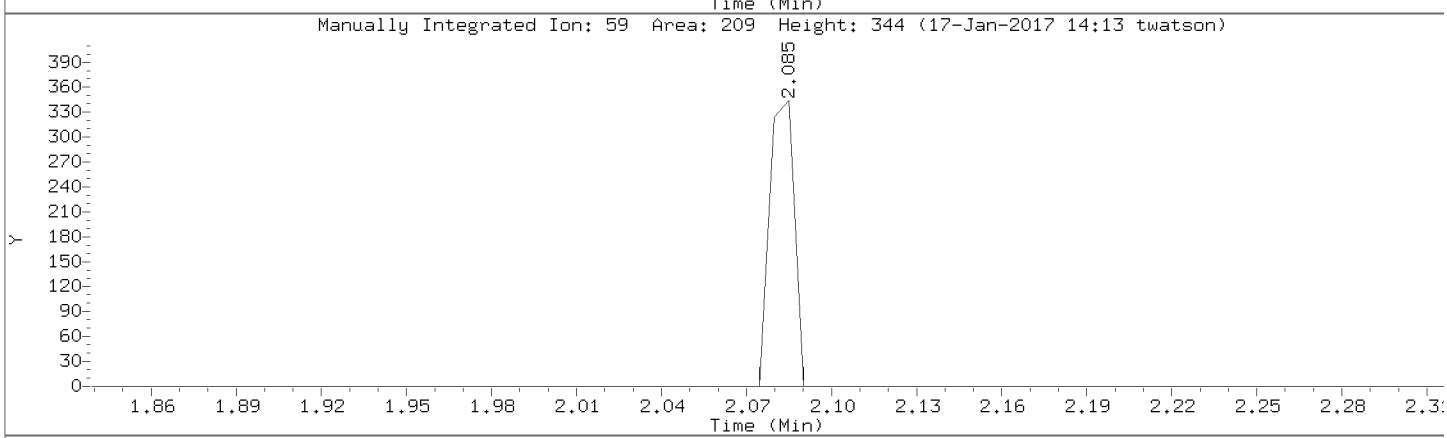
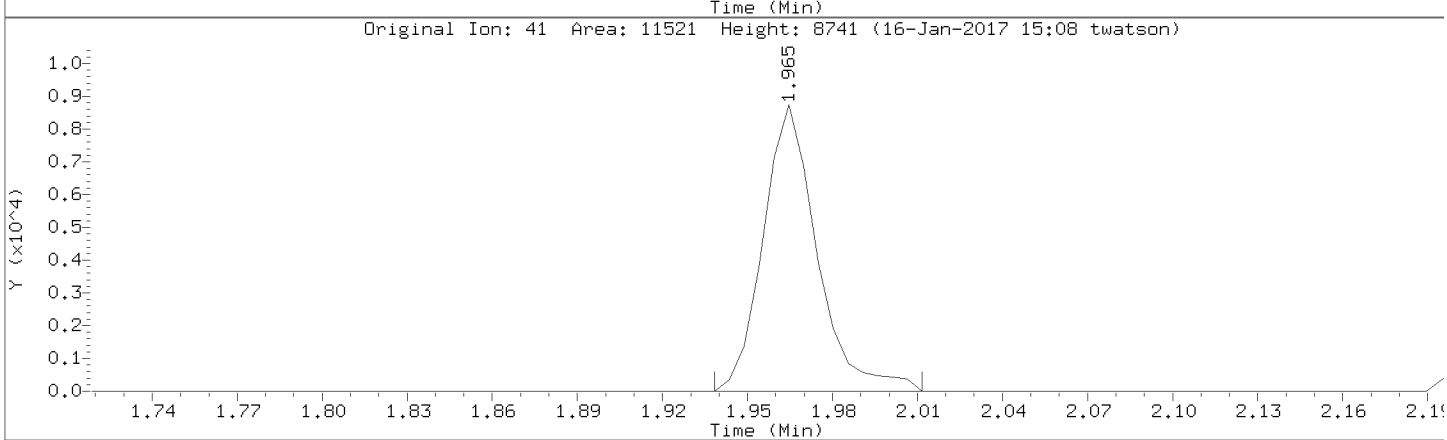
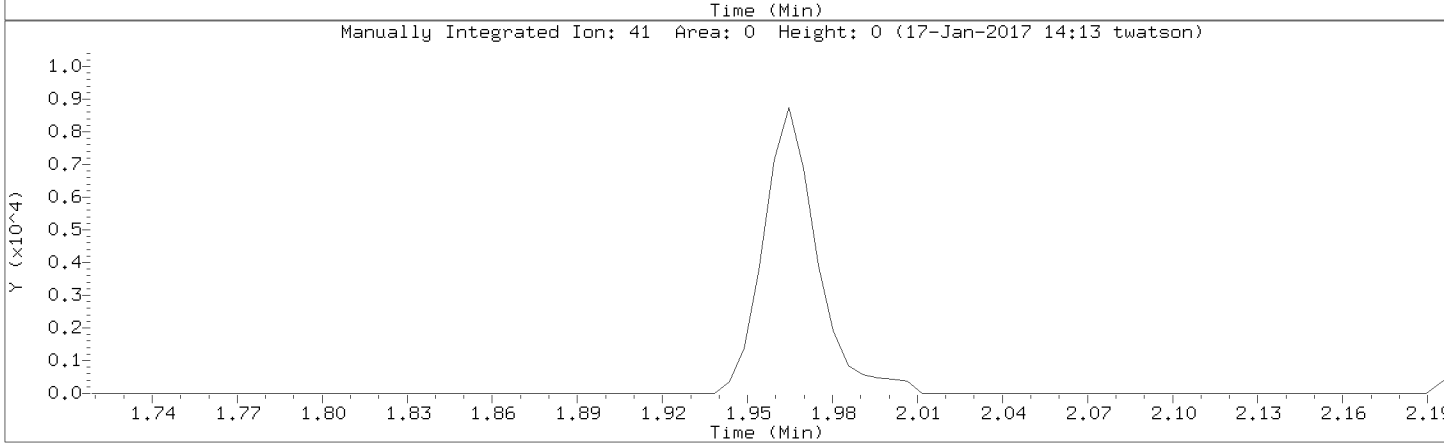
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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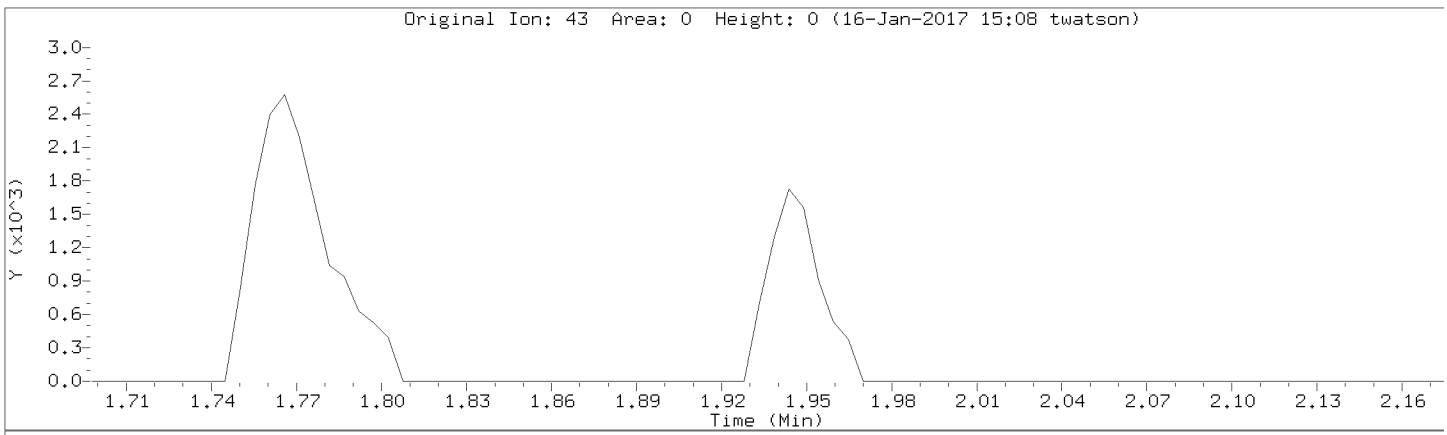
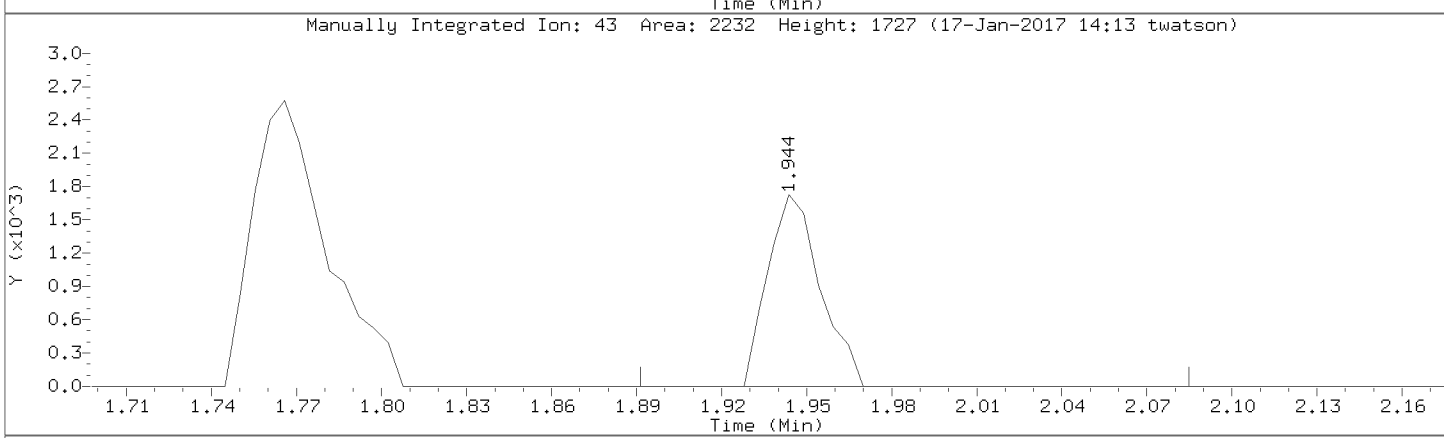
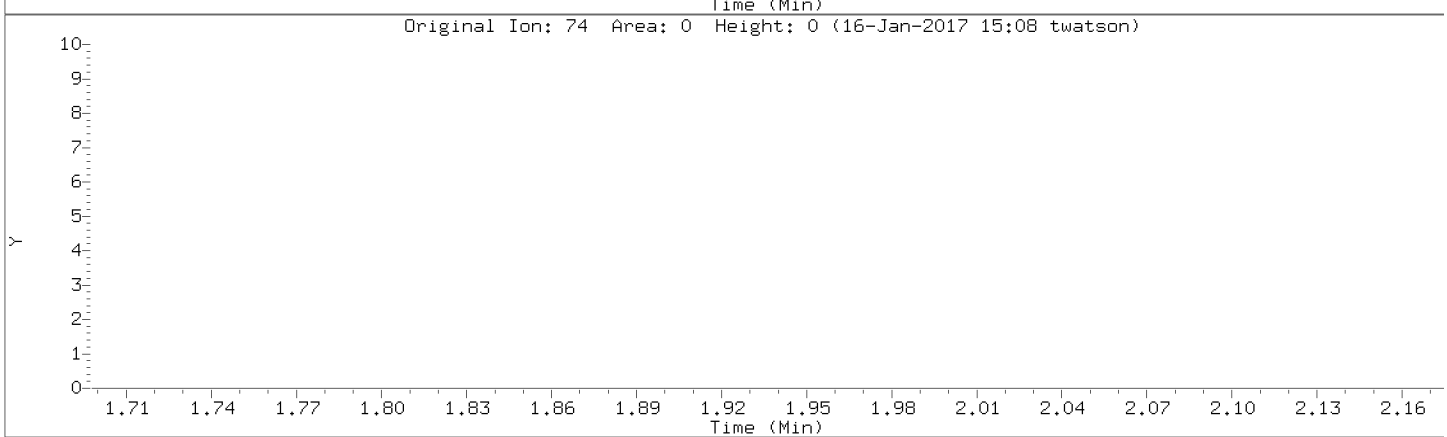
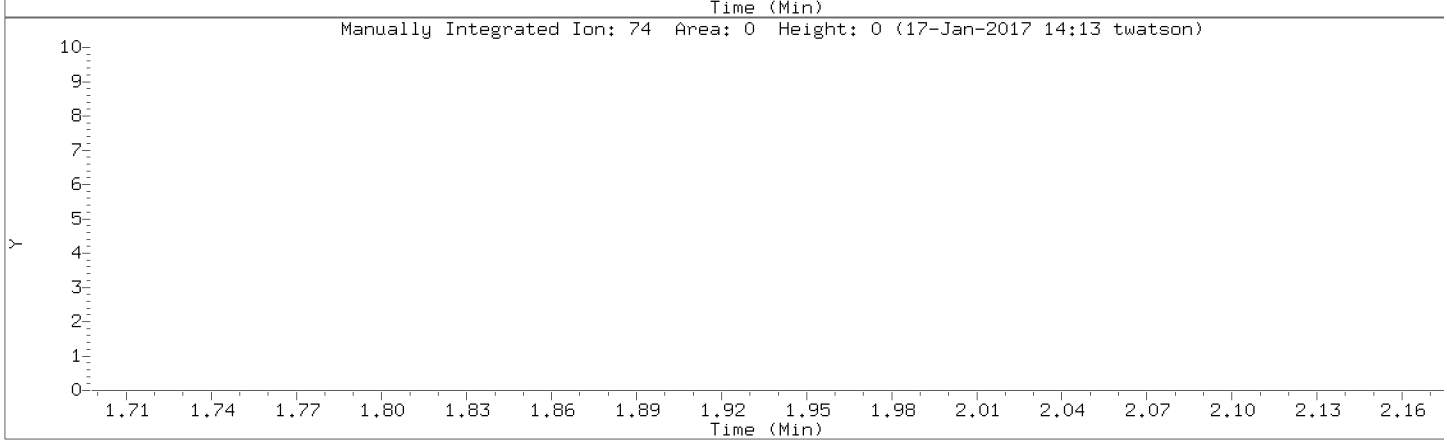
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9









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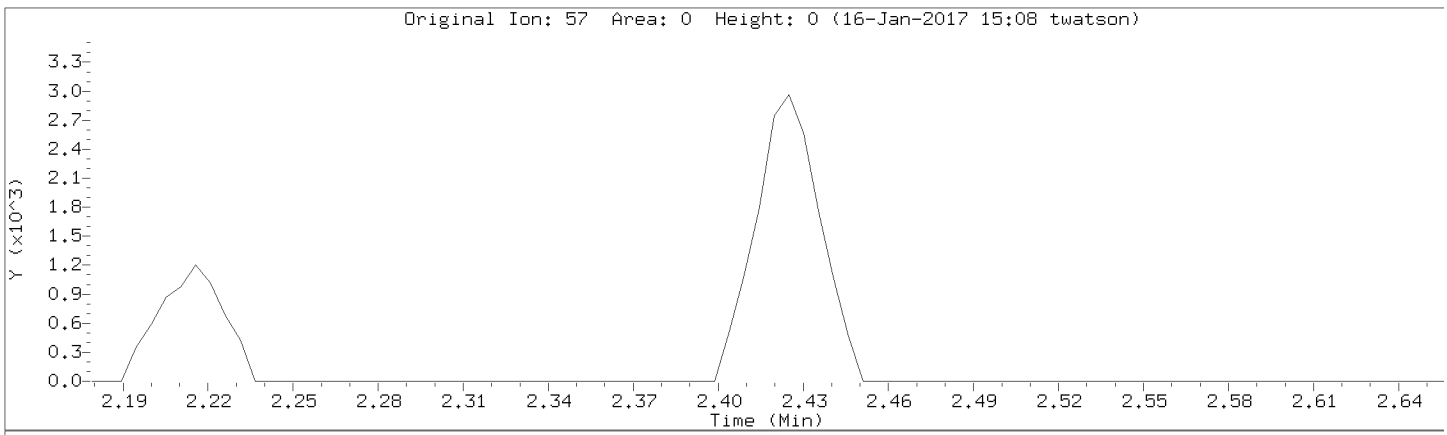
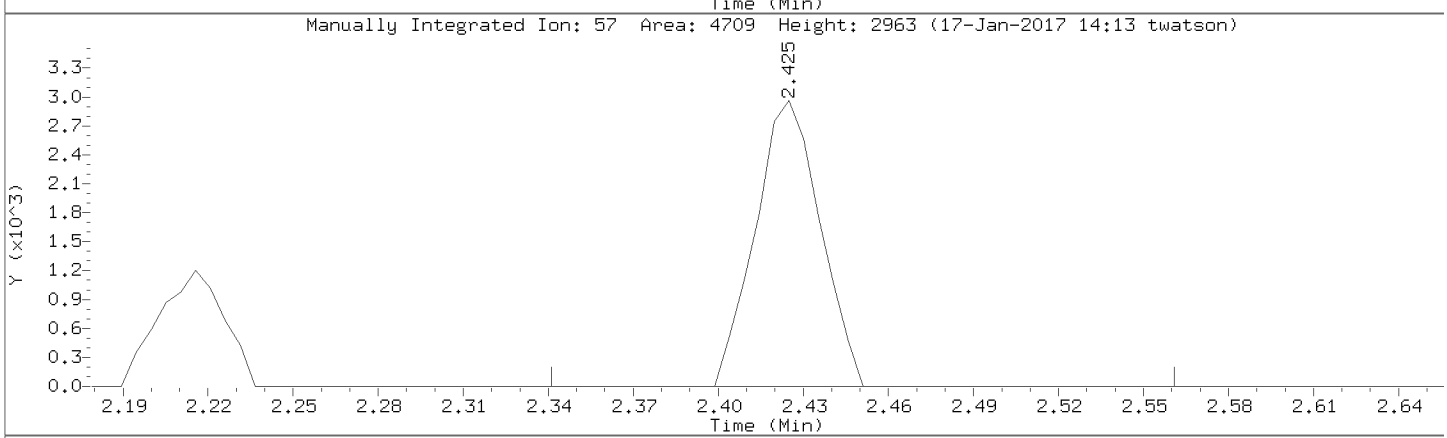
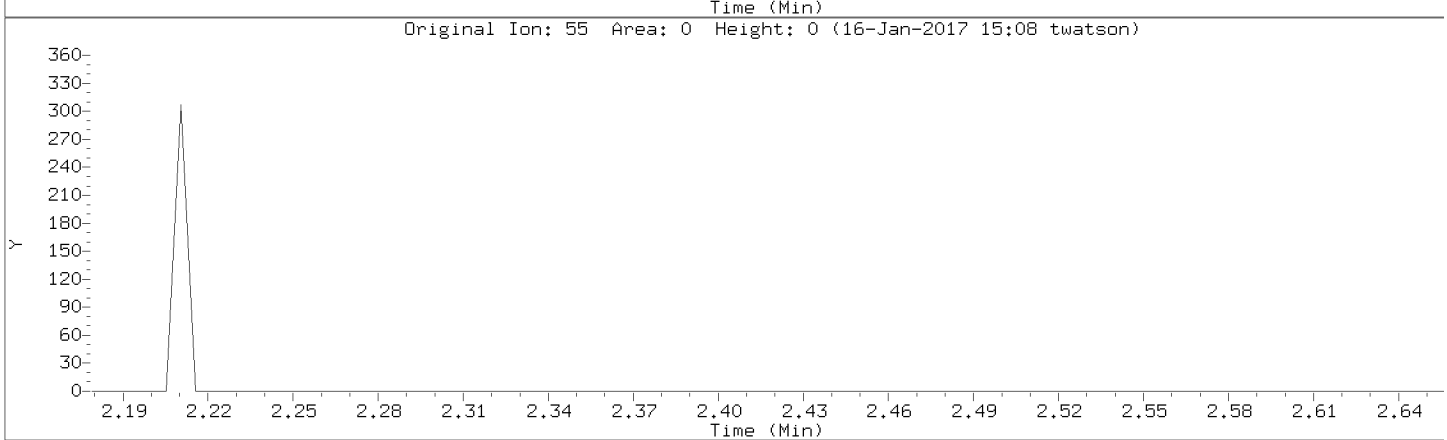
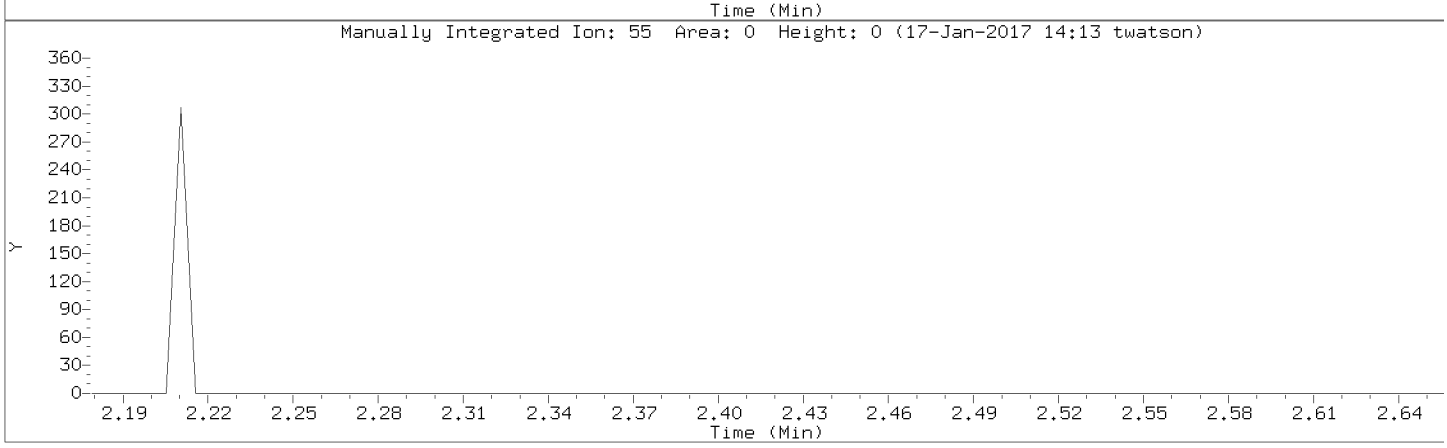
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: n-Hexane Review Code: NI
CAS Number:









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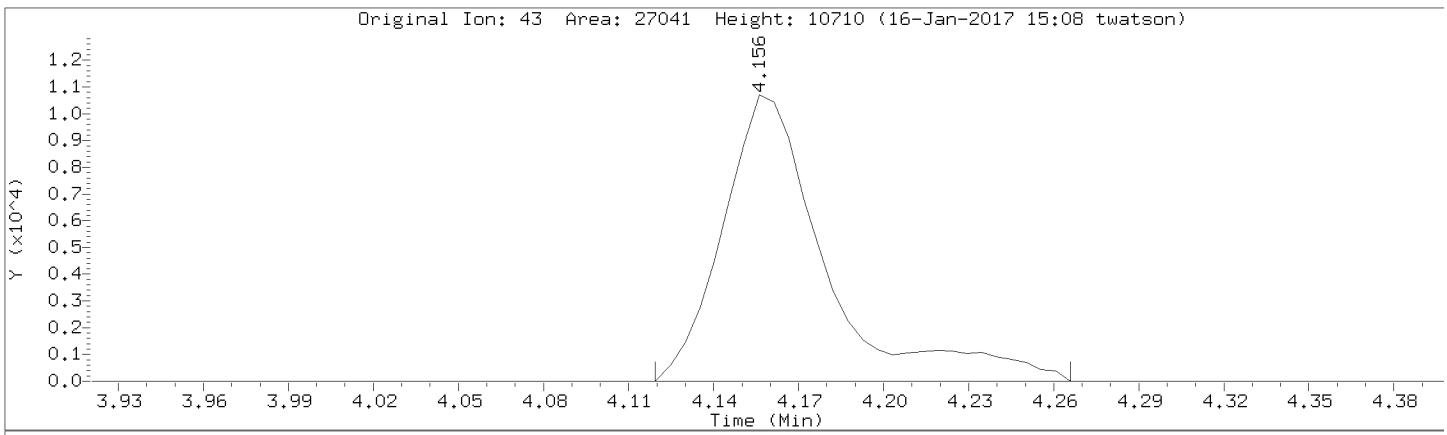
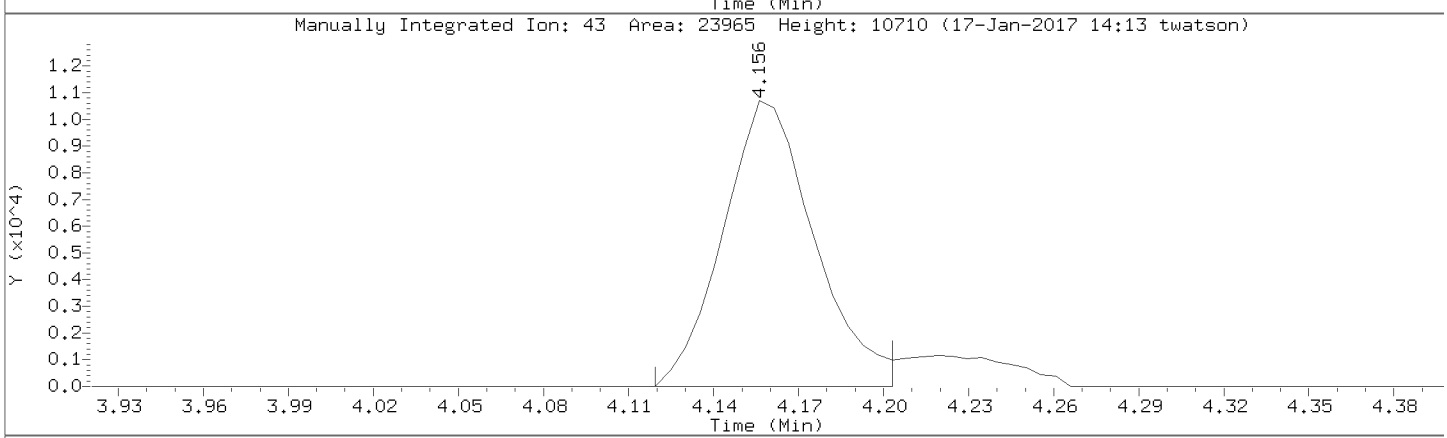
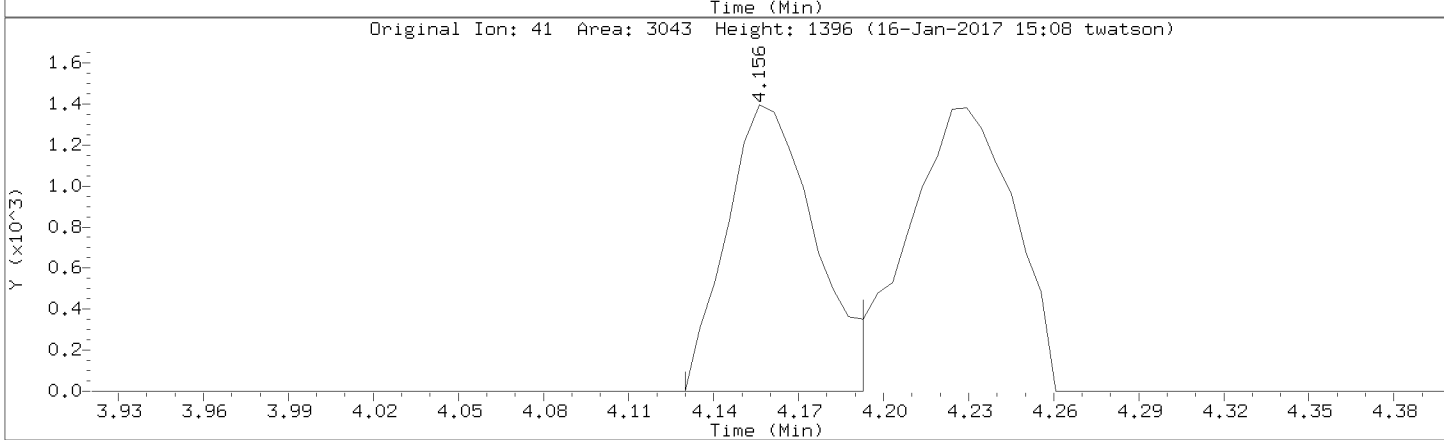
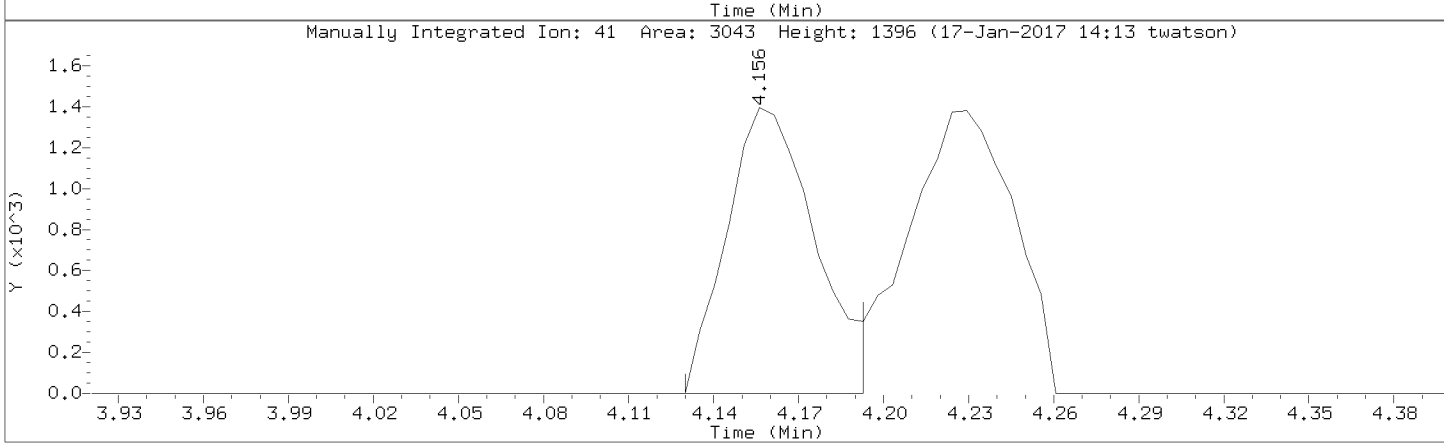
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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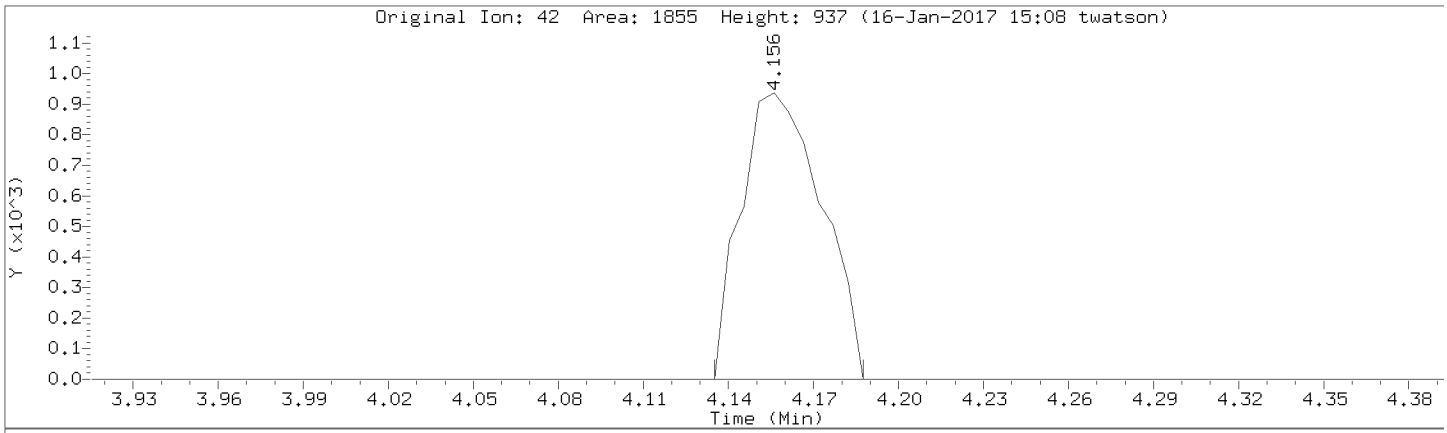
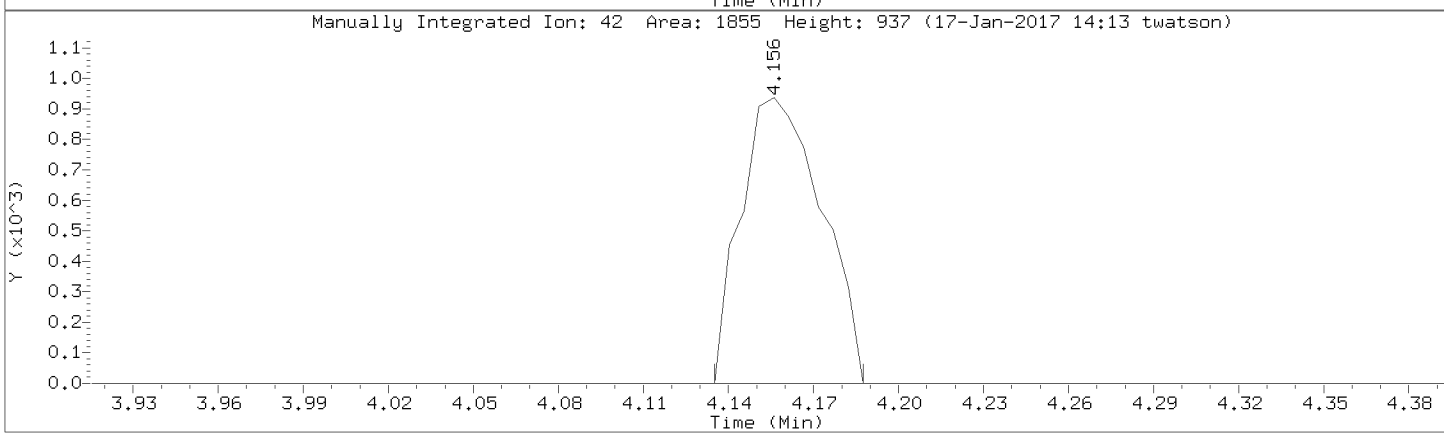
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0





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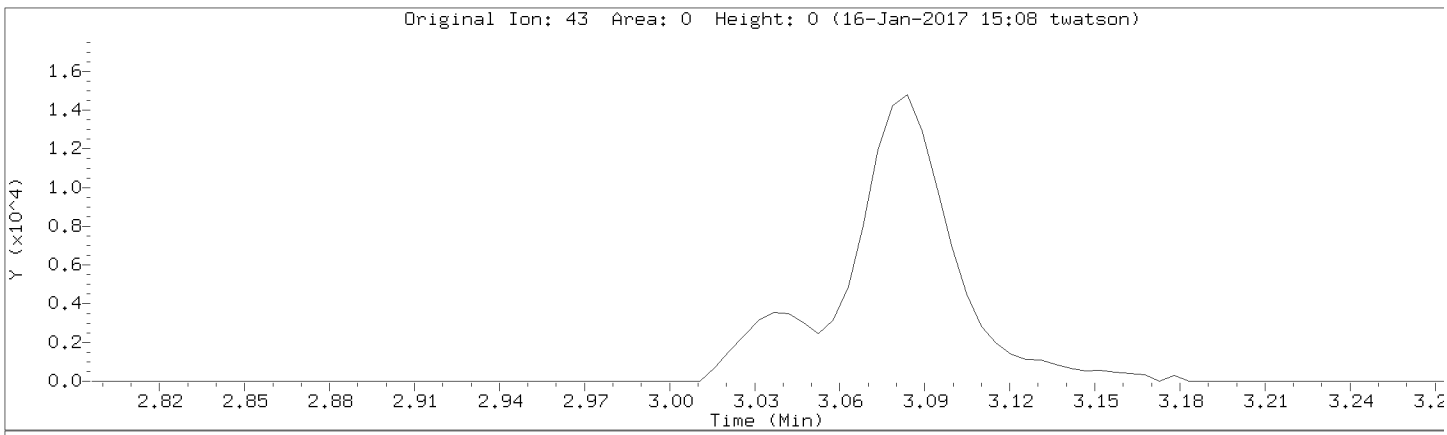
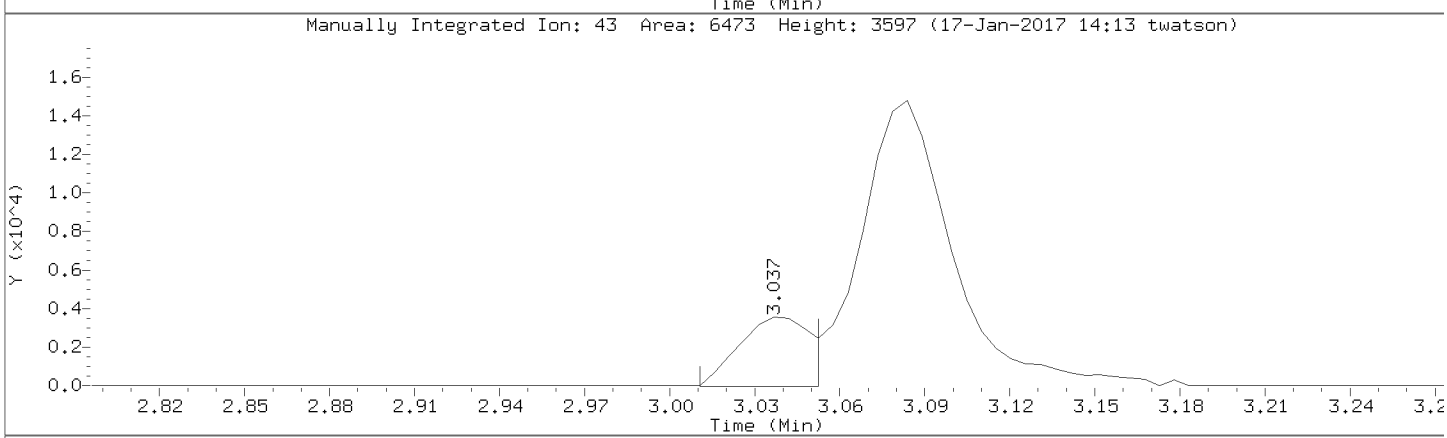
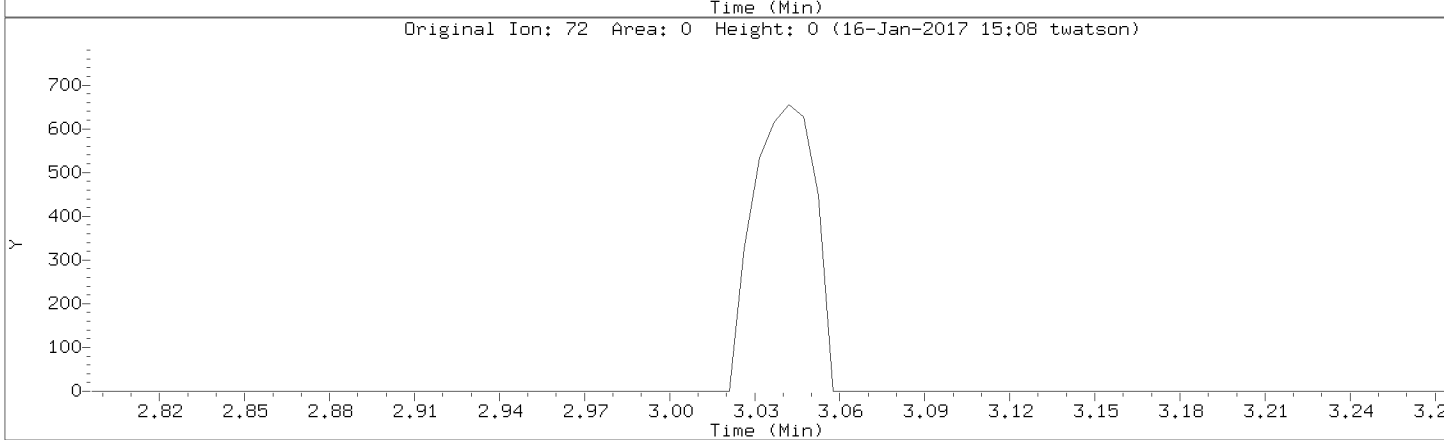
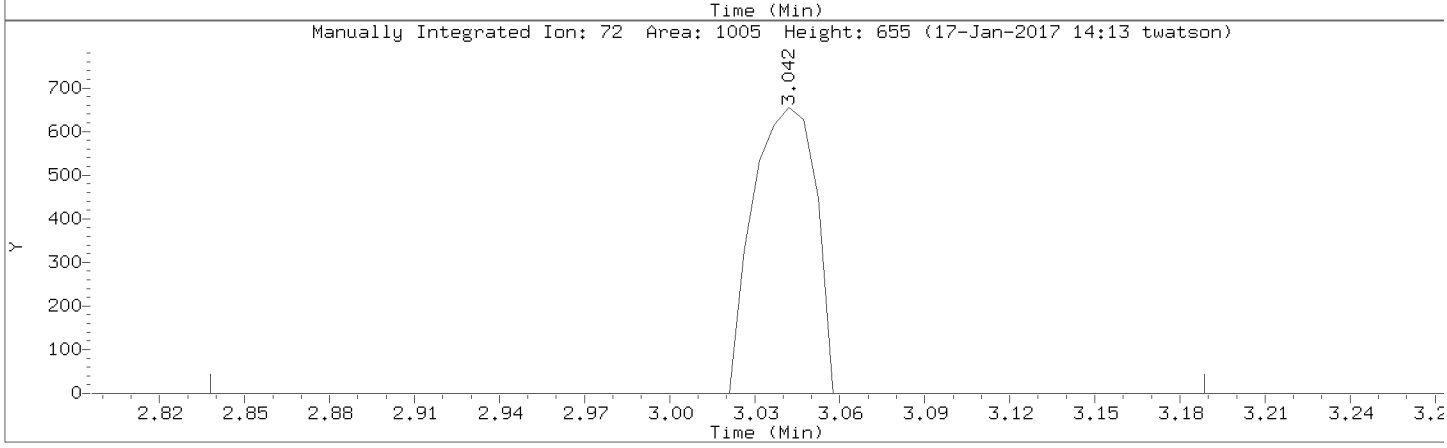
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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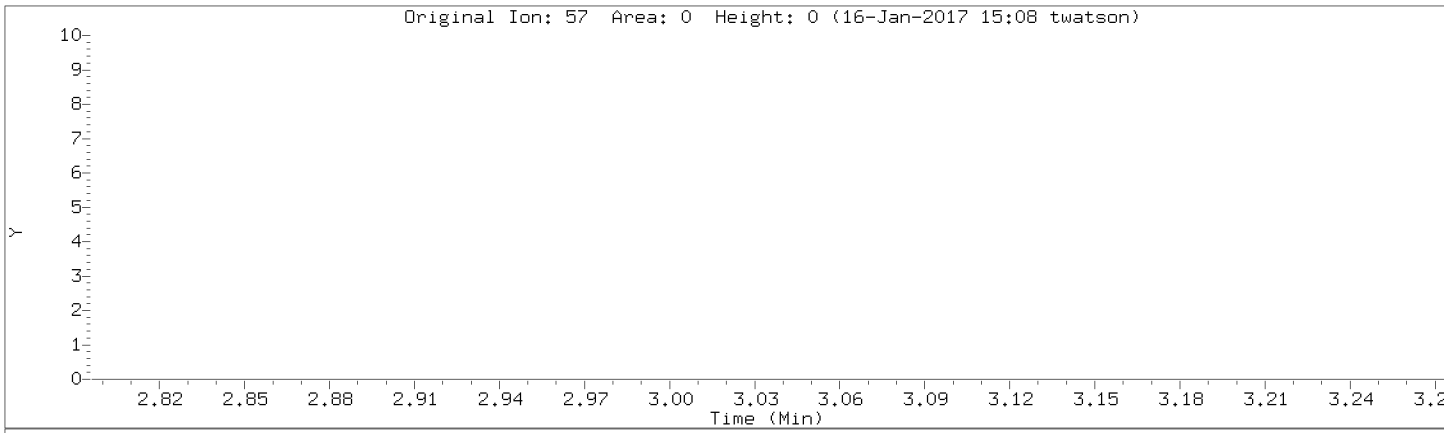
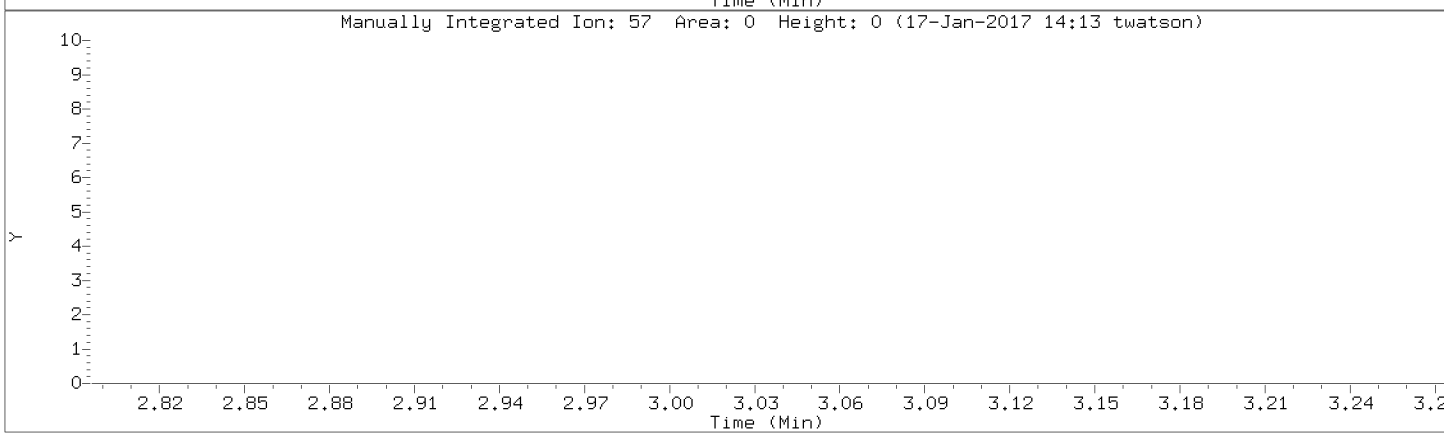
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0





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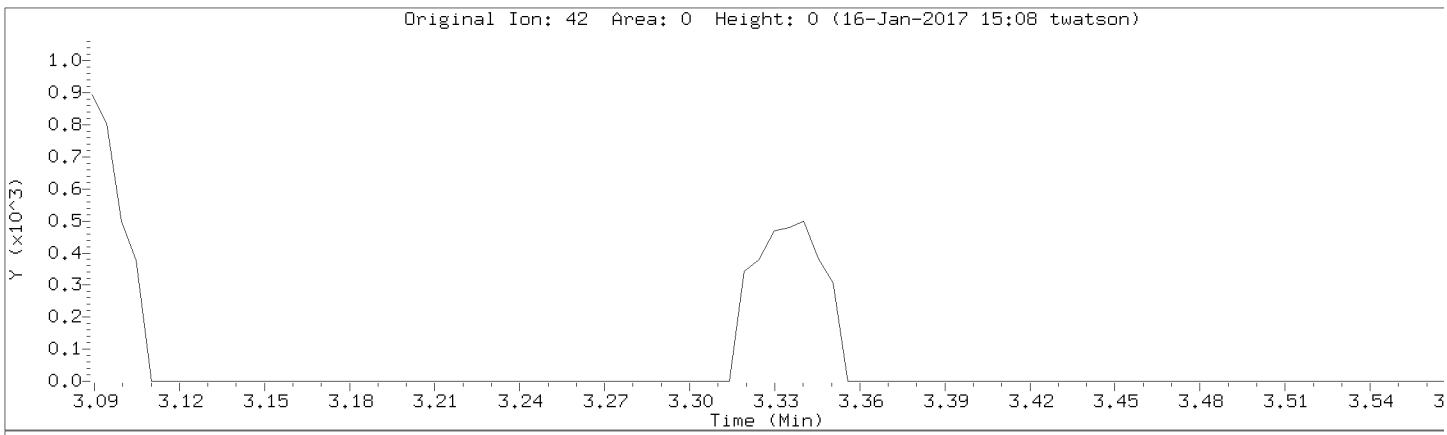
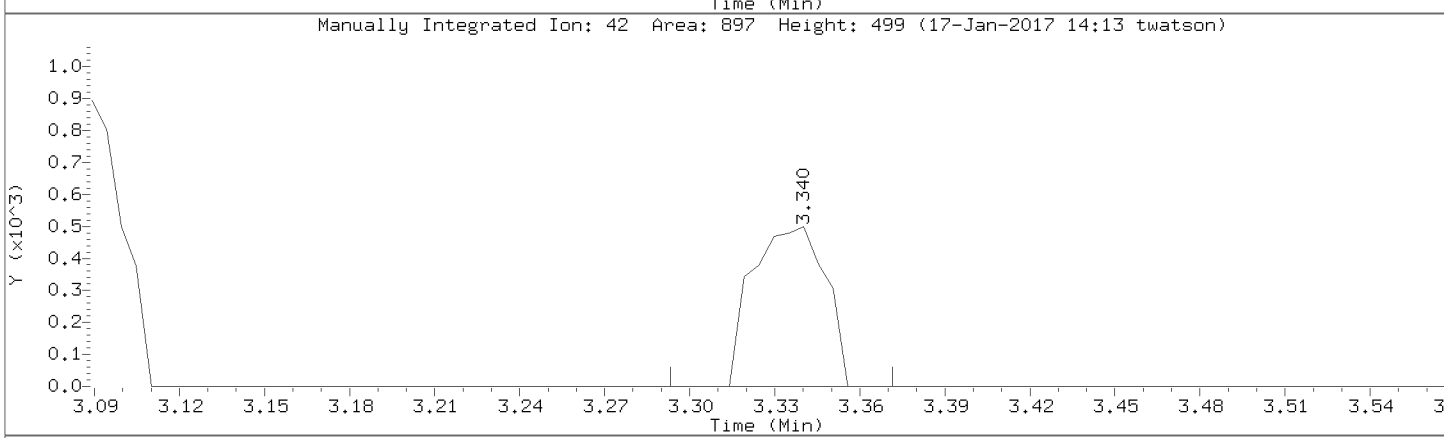
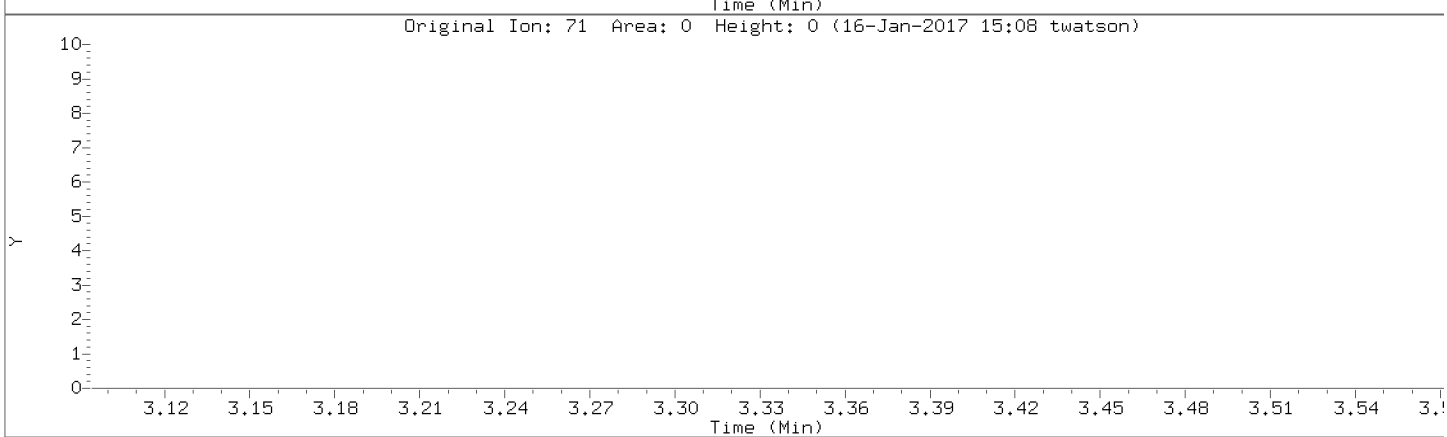
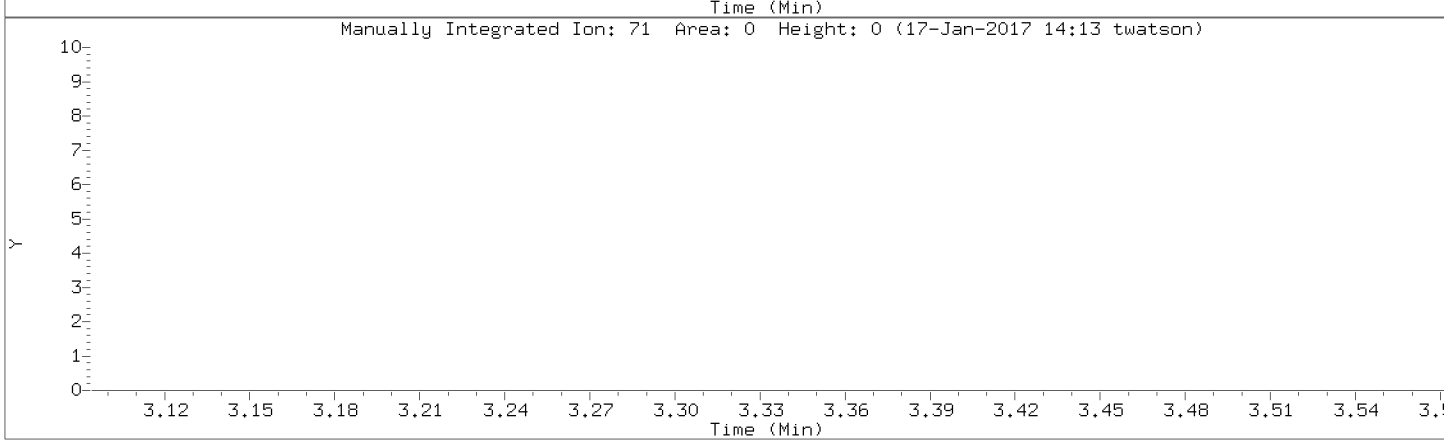
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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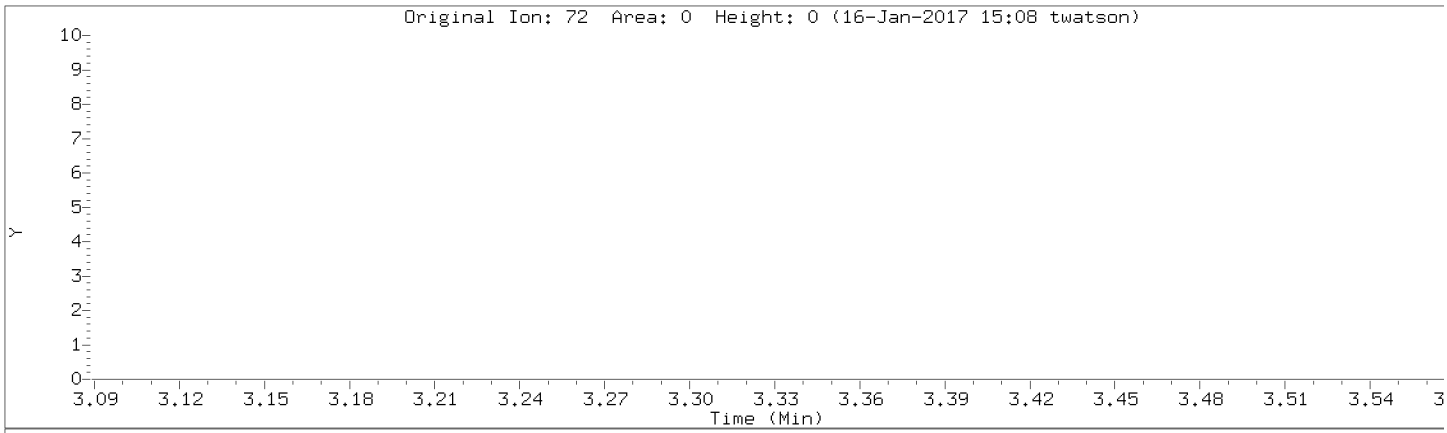
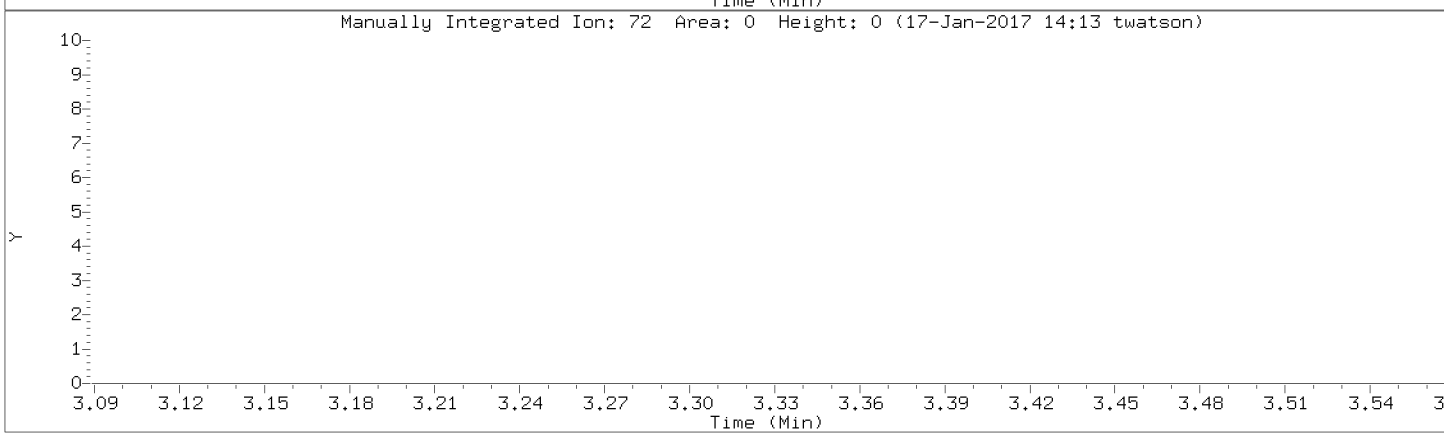
Lab Sample ID: 8260-CAL3,140016:0





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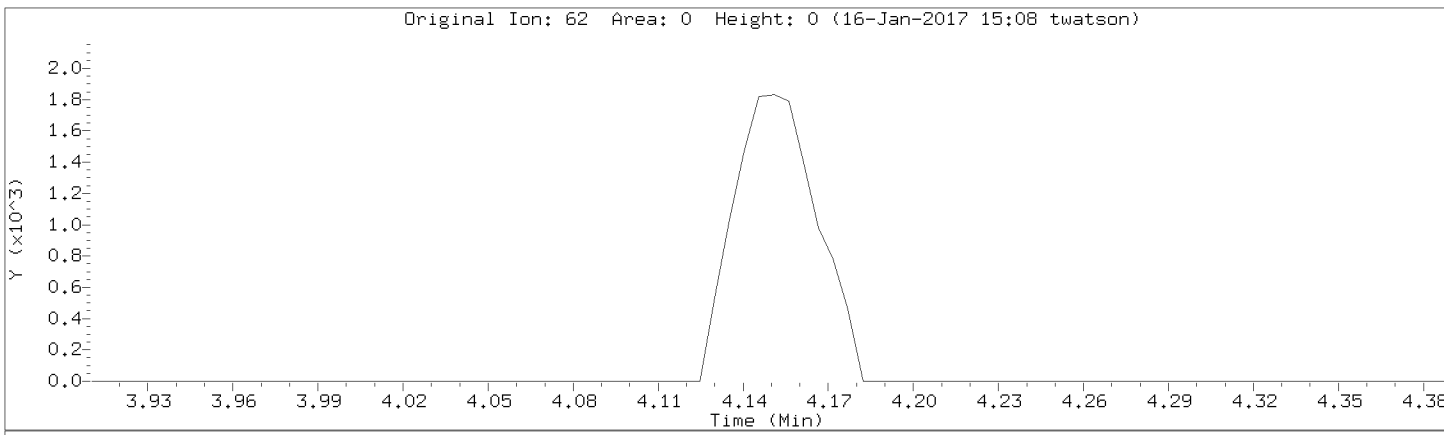
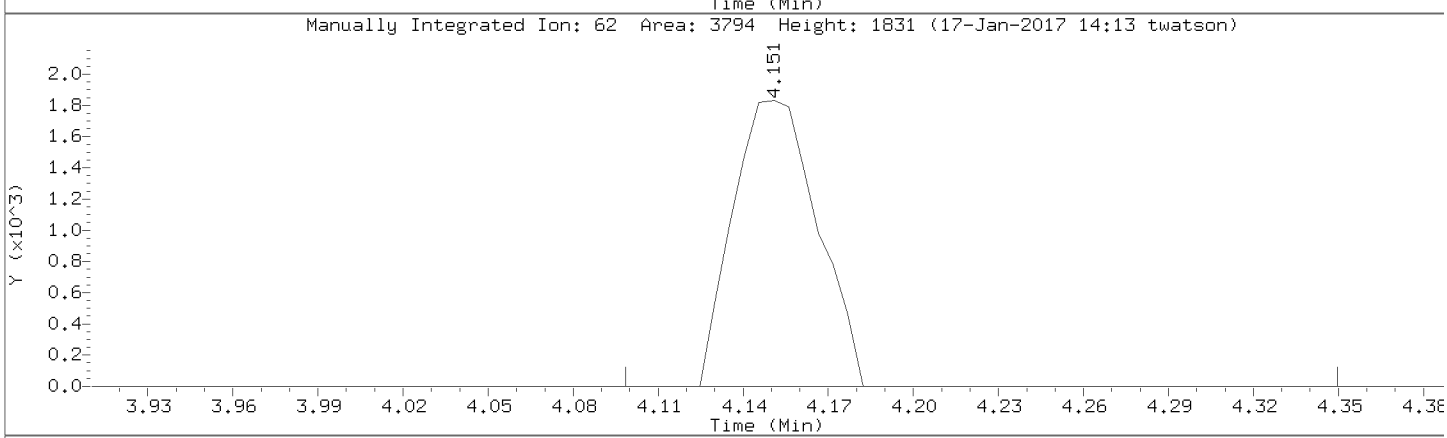
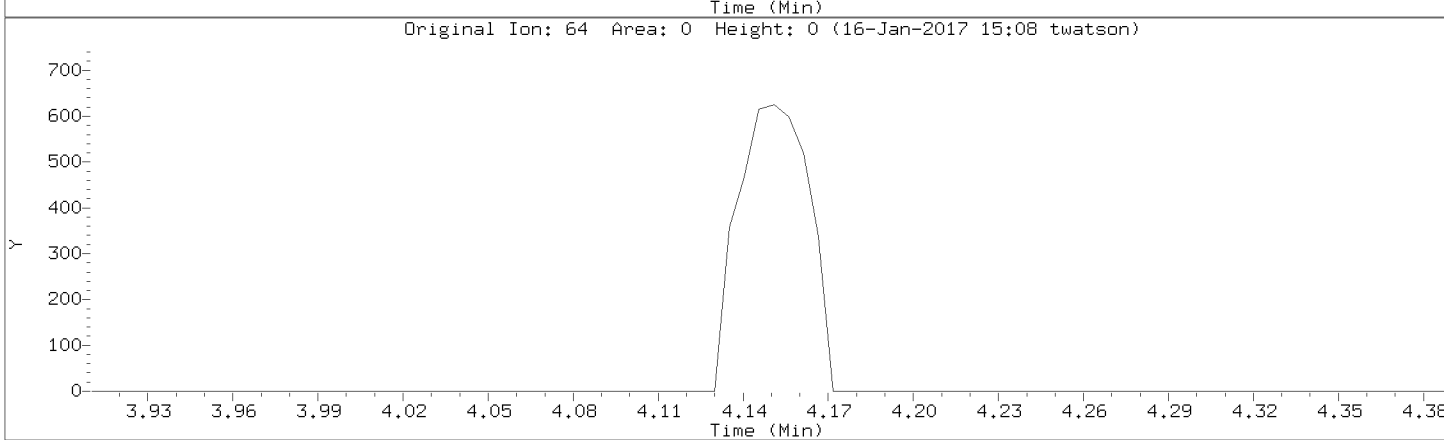
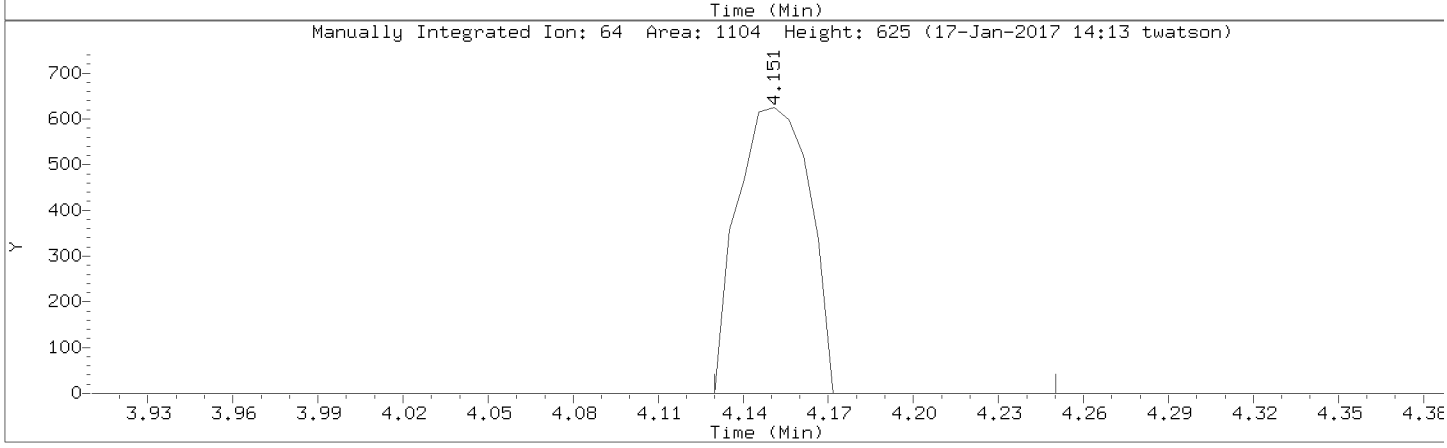
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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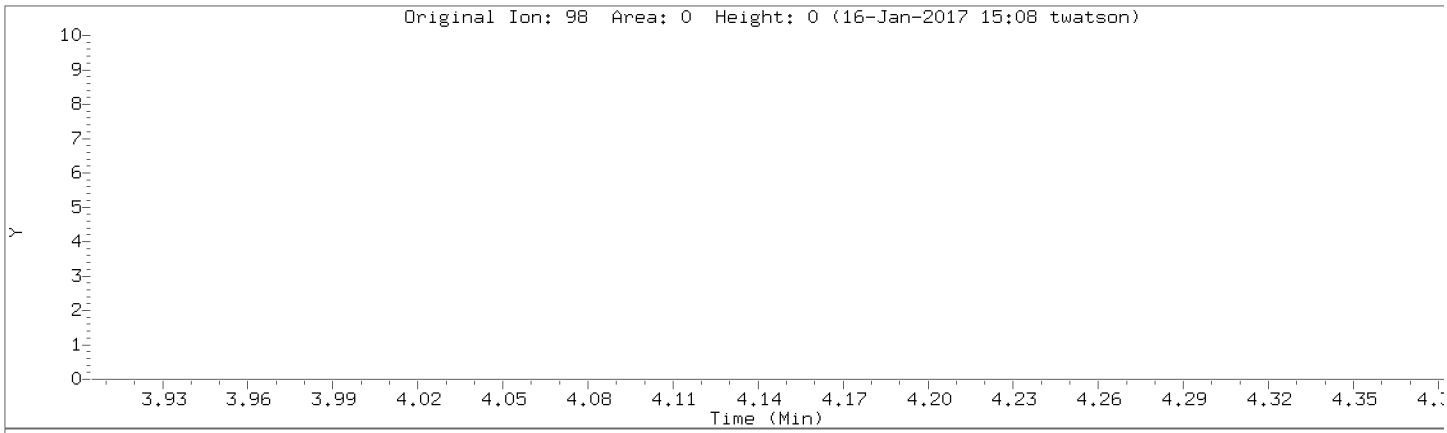
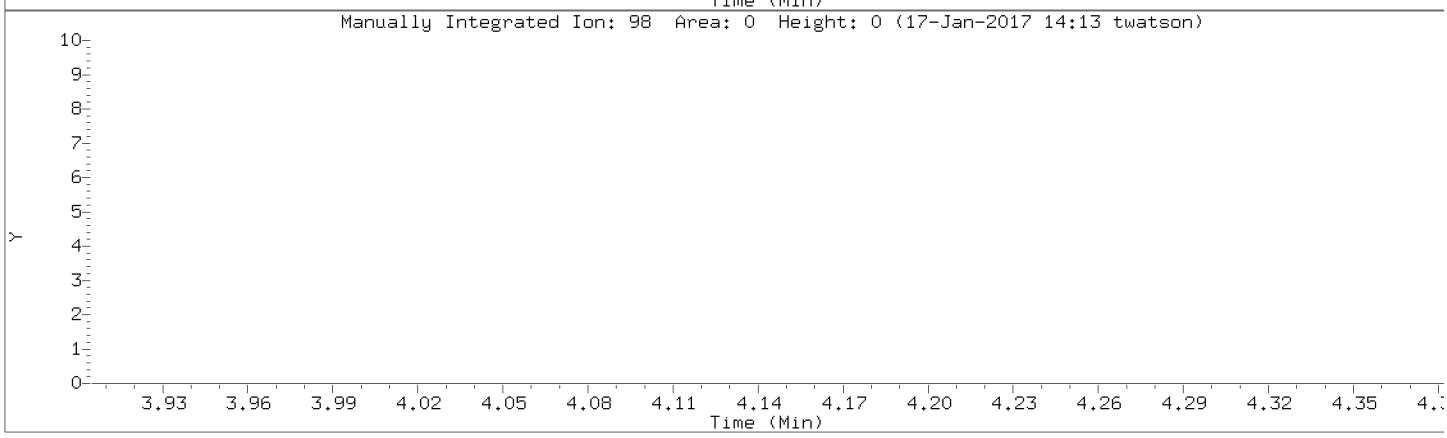
Lab Sample ID: 8260-CAL3,140016:0





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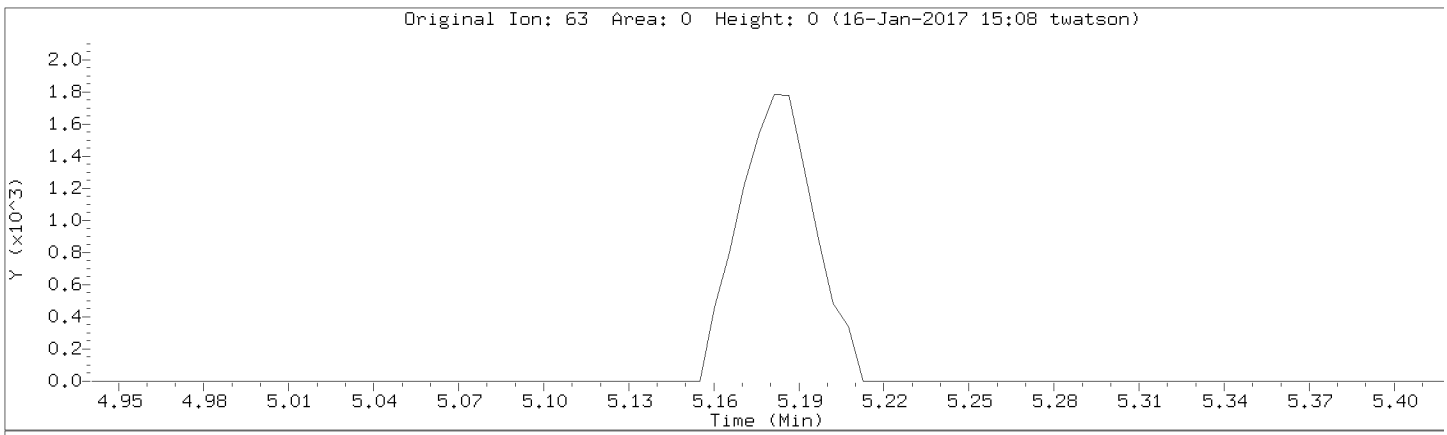
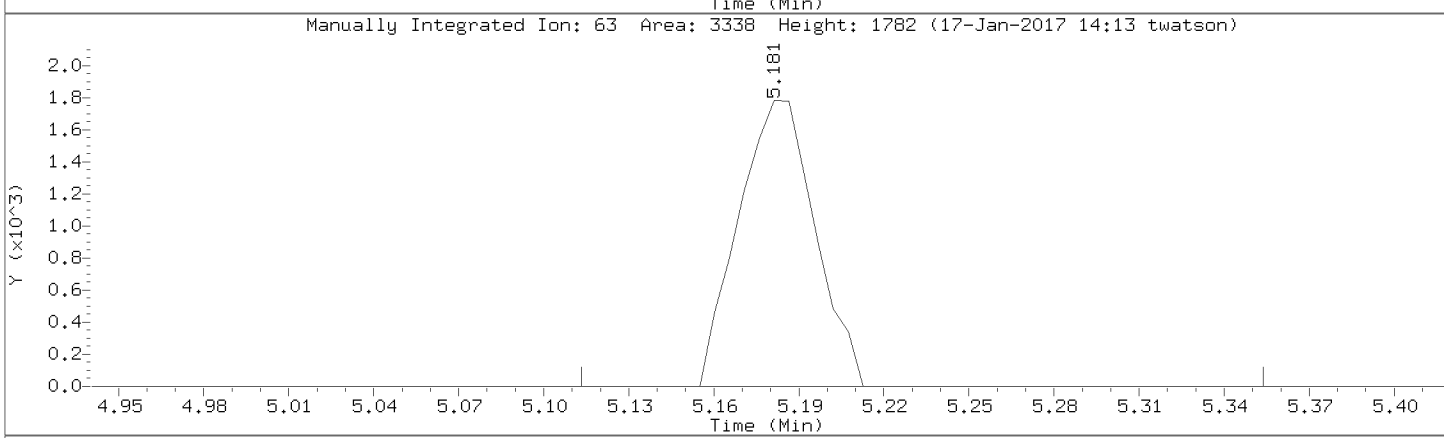
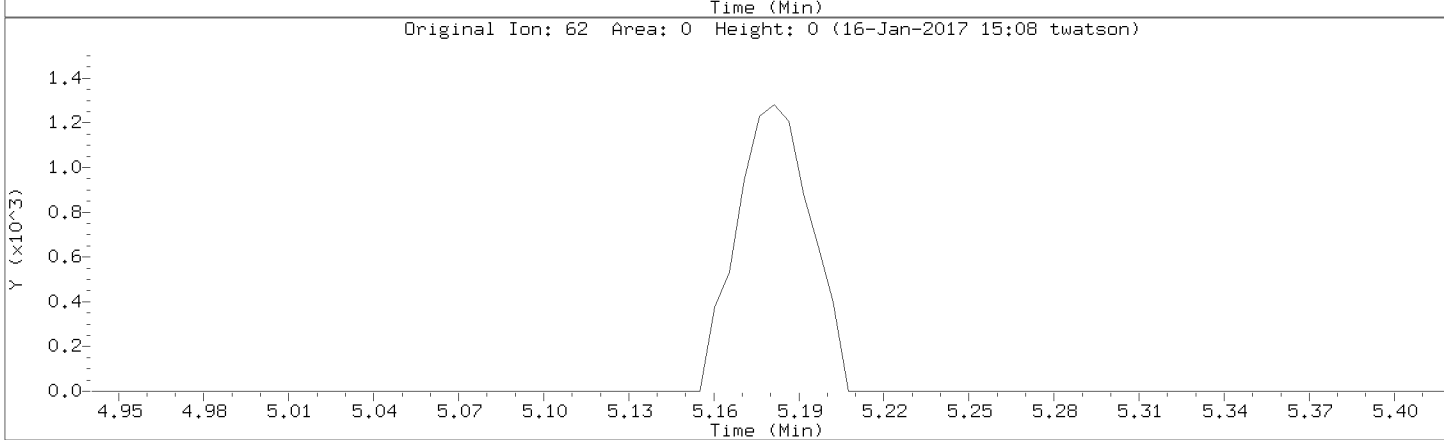
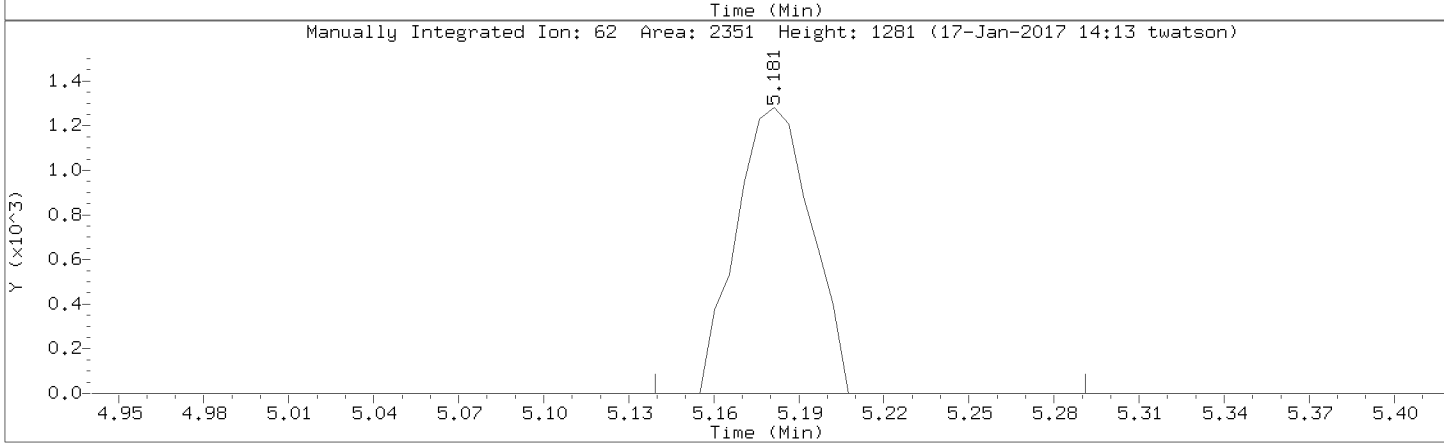
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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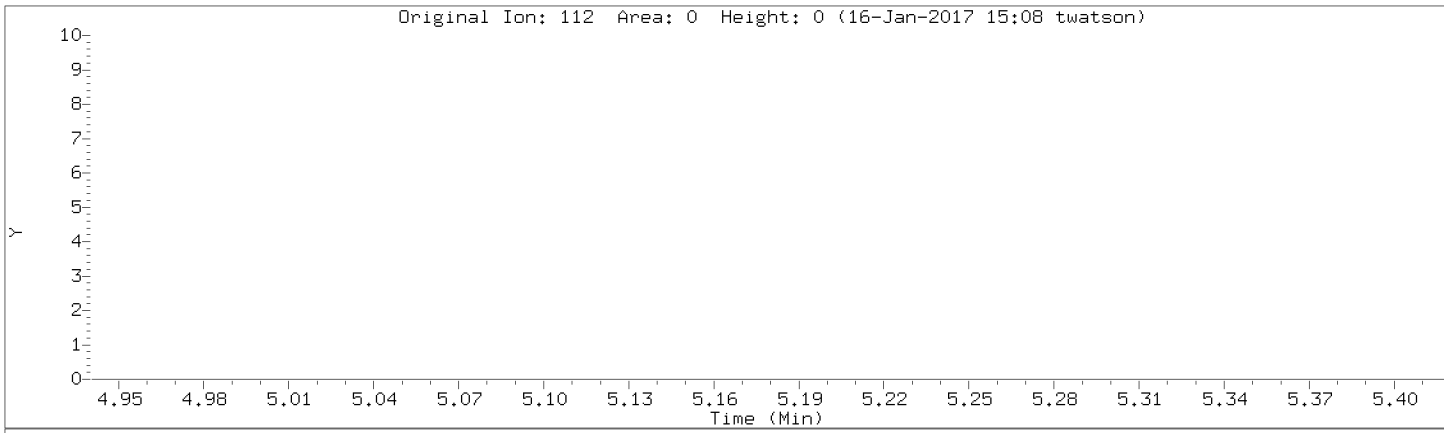
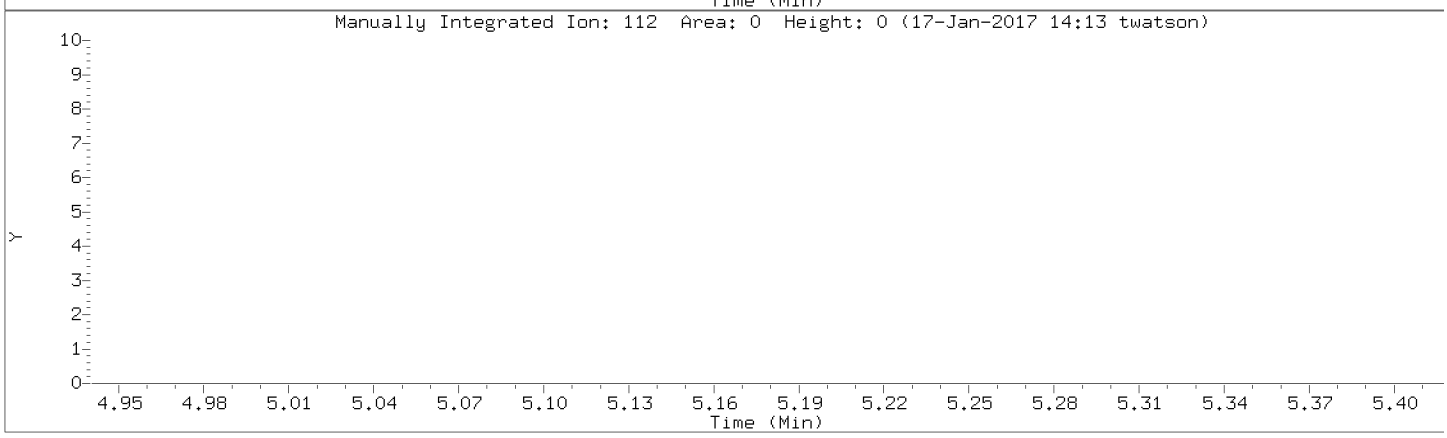
Lab Sample ID: 8260-CAL3,140016:0





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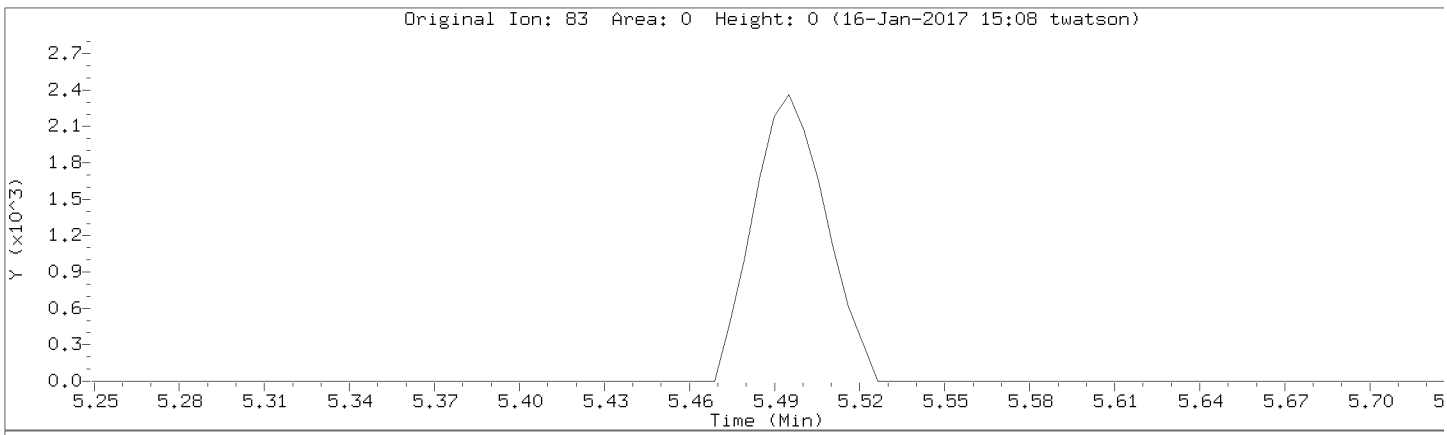
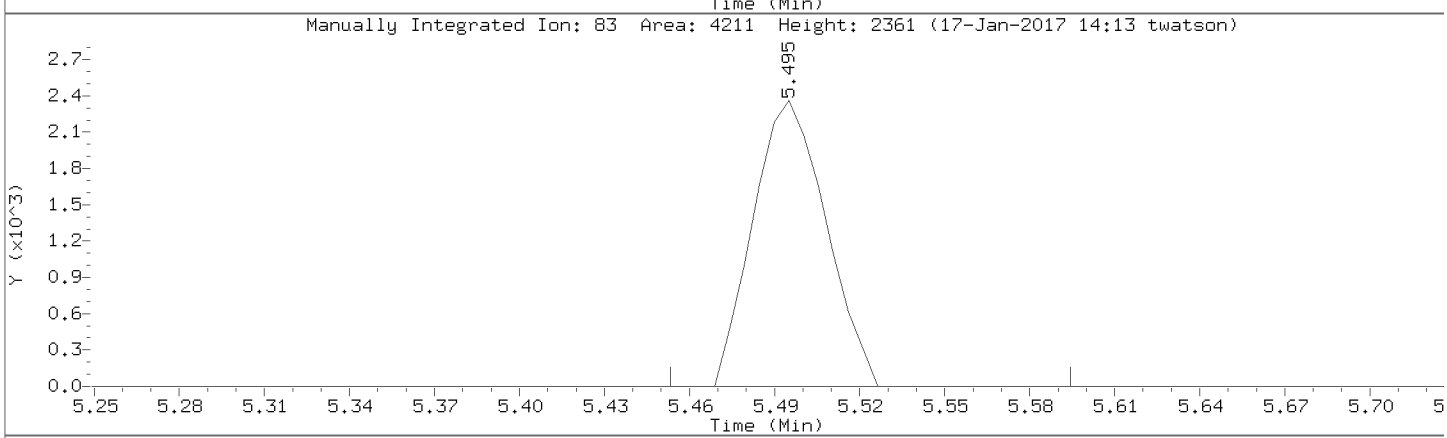
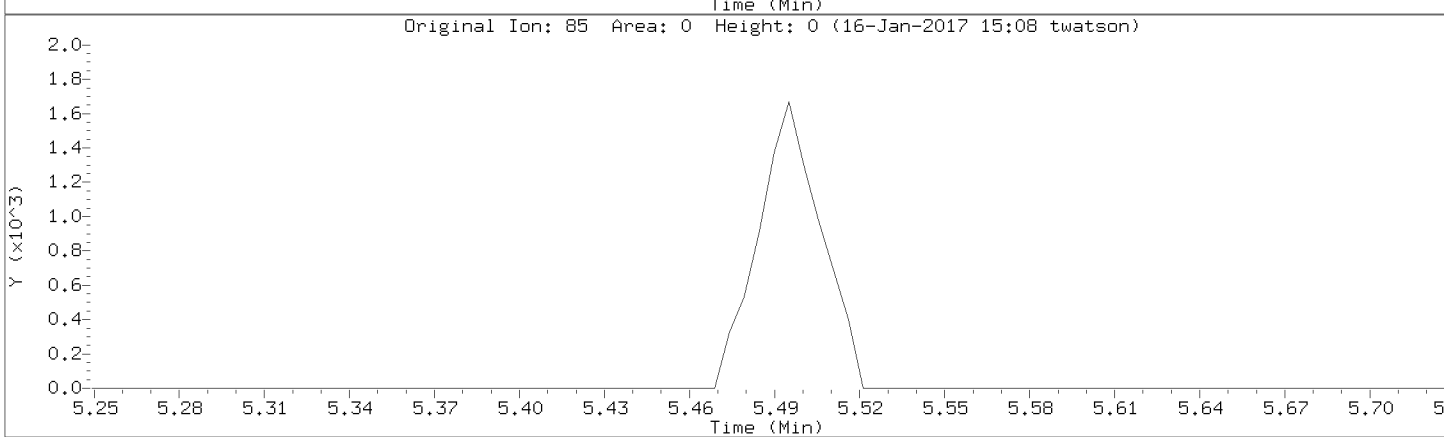
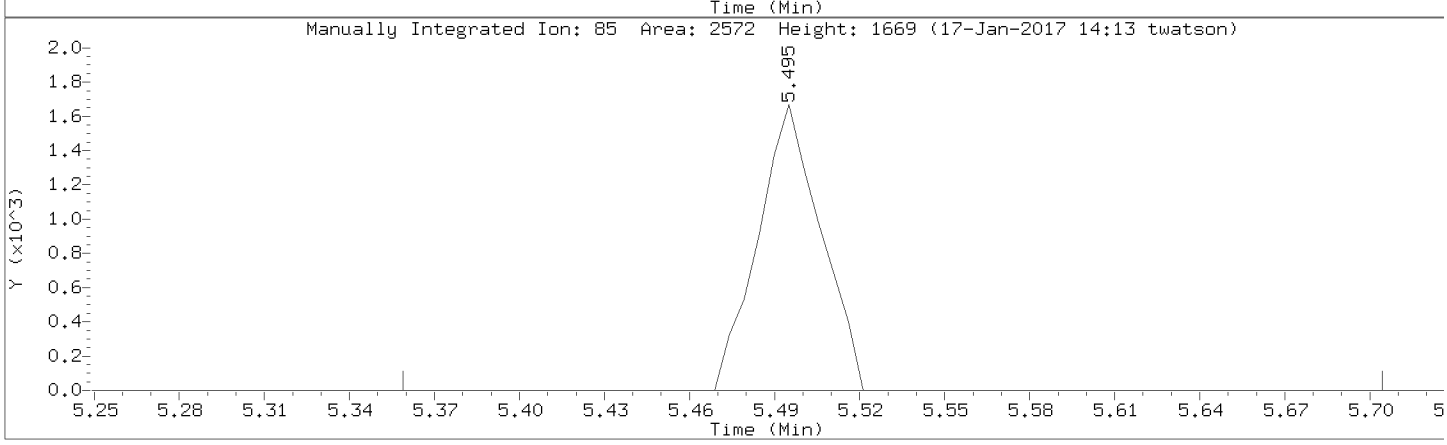
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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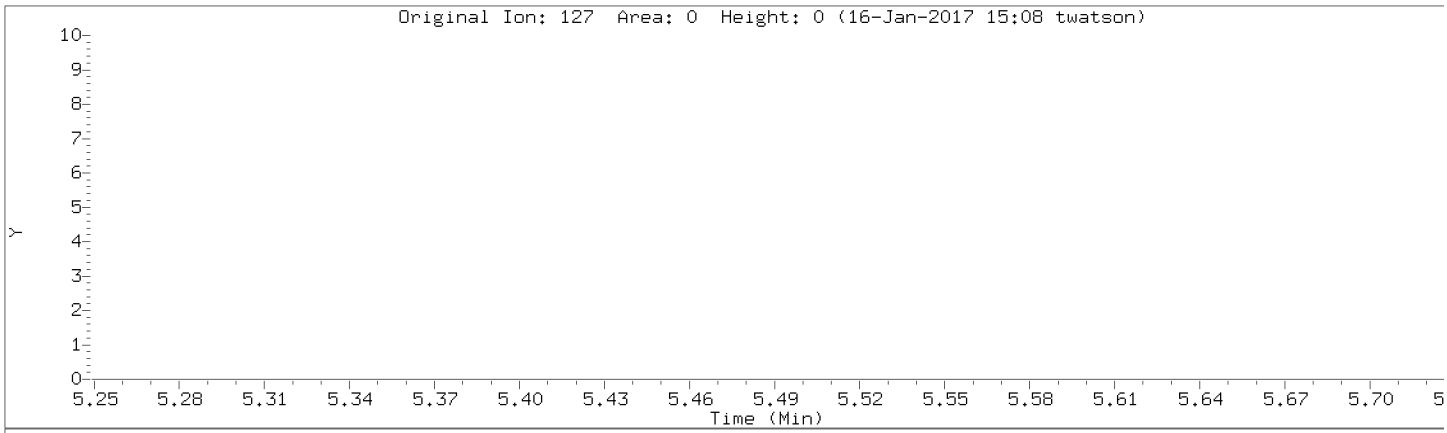
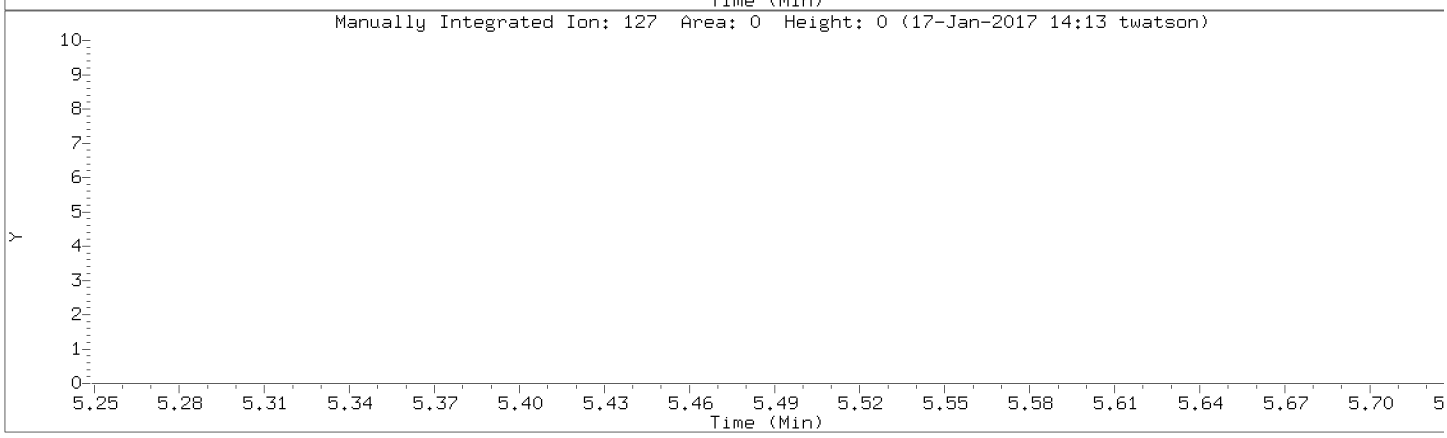
Lab Sample ID: 8260-CAL3,140016:0





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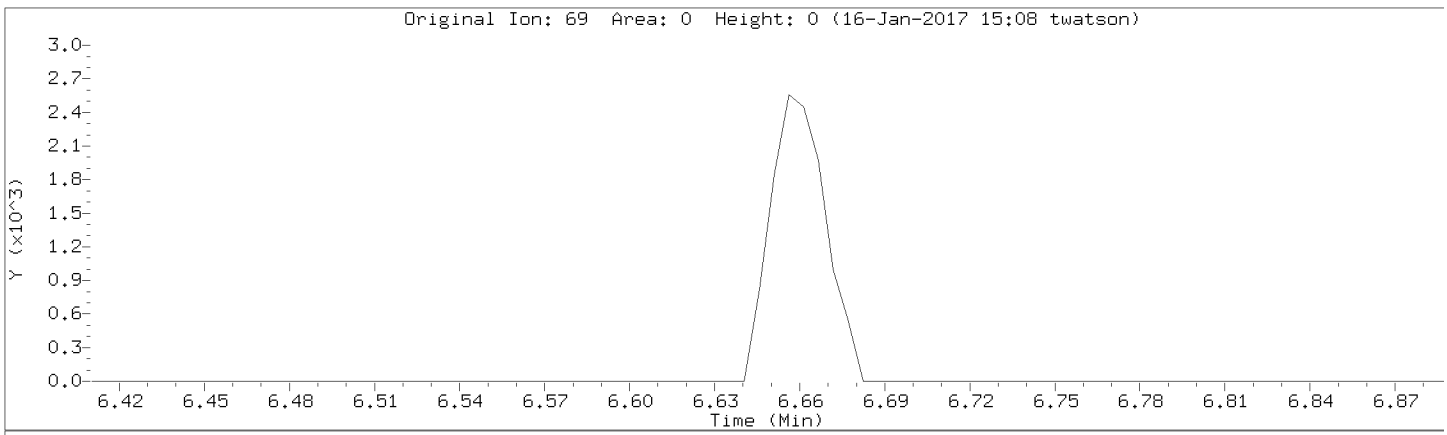
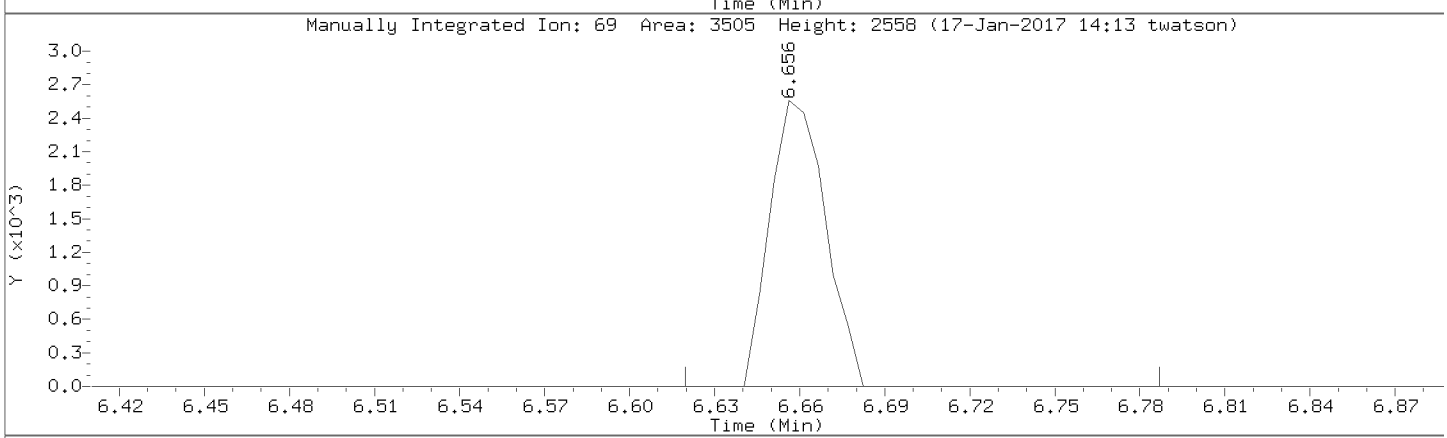
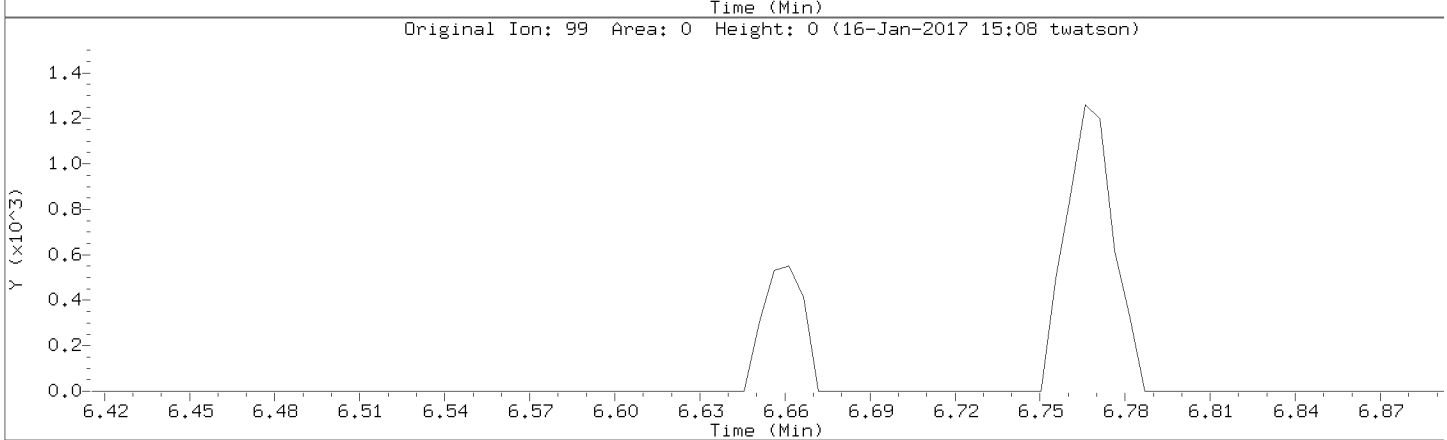
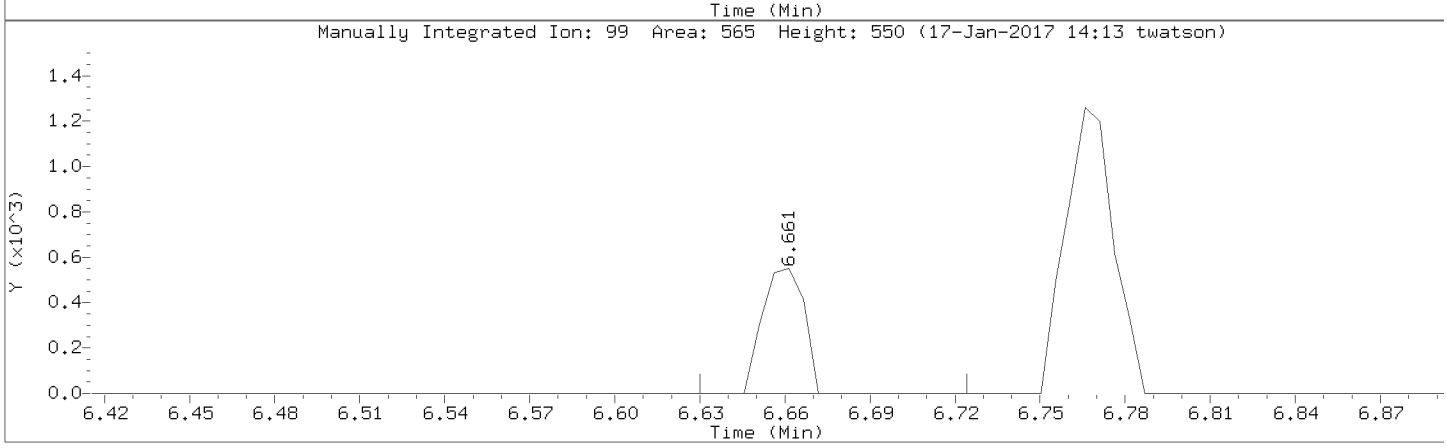
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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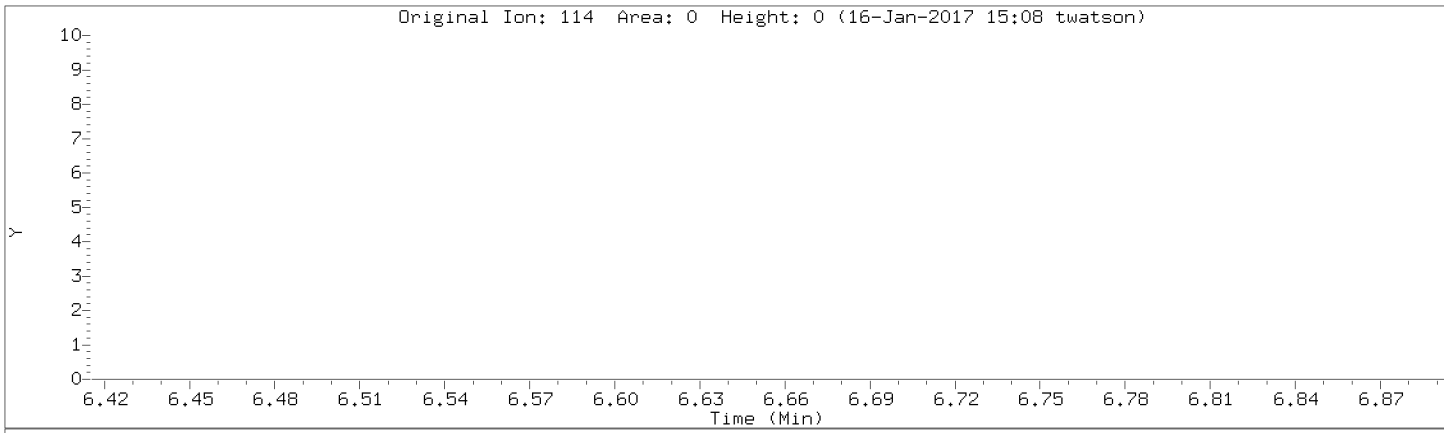

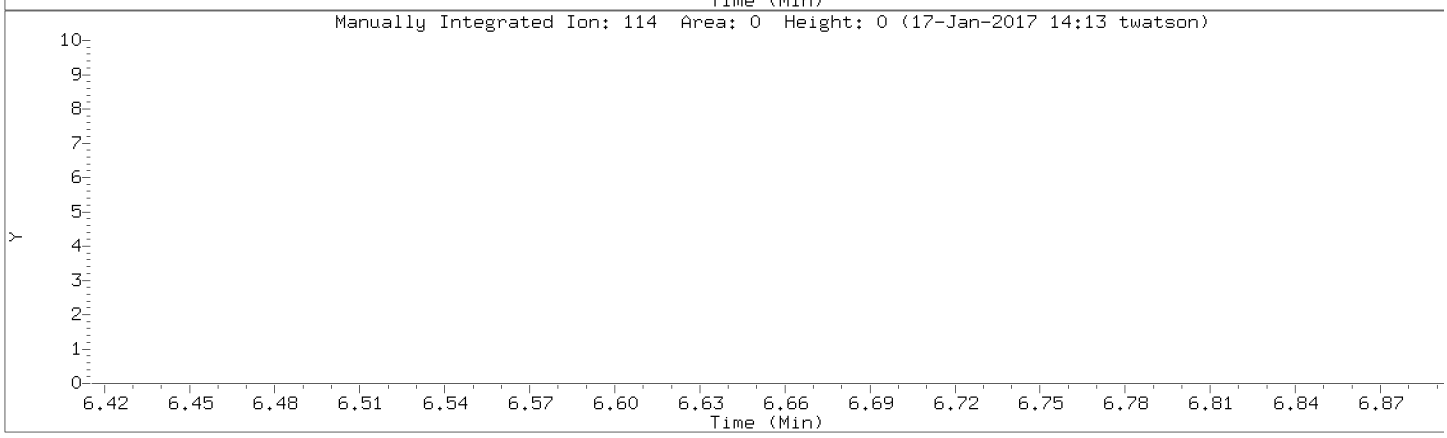

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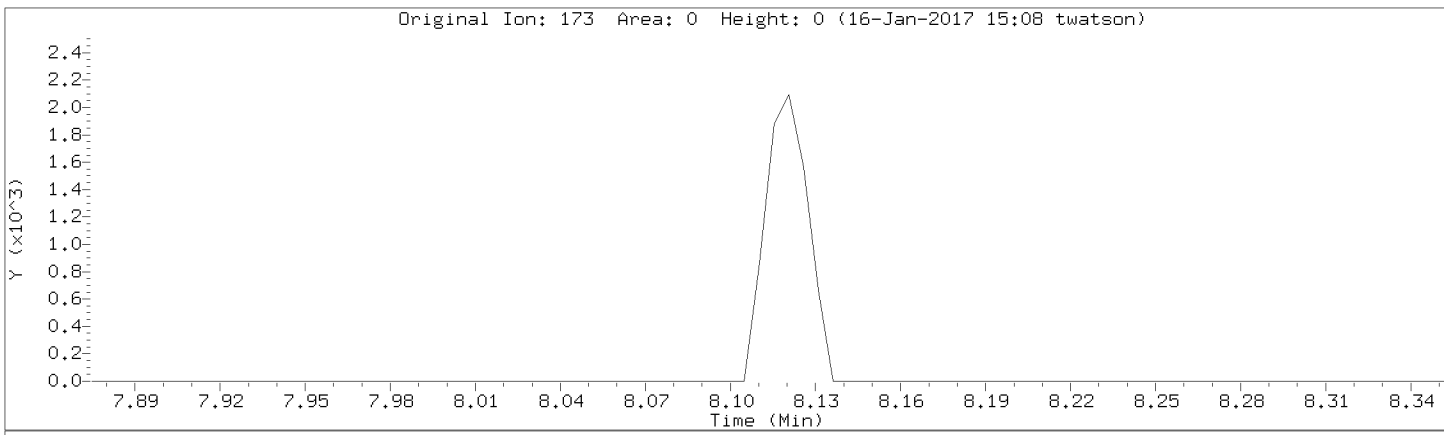
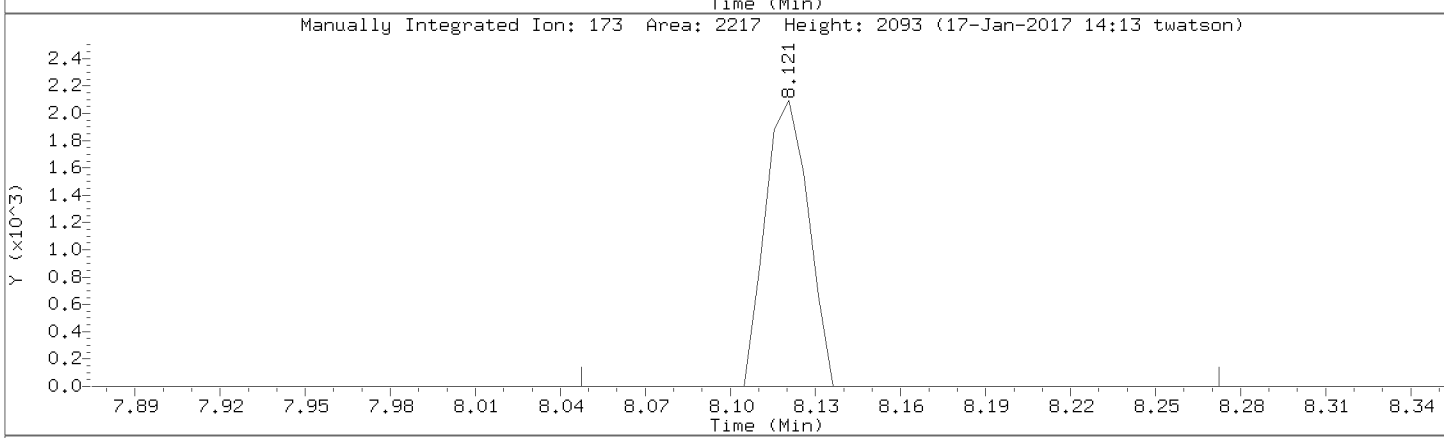
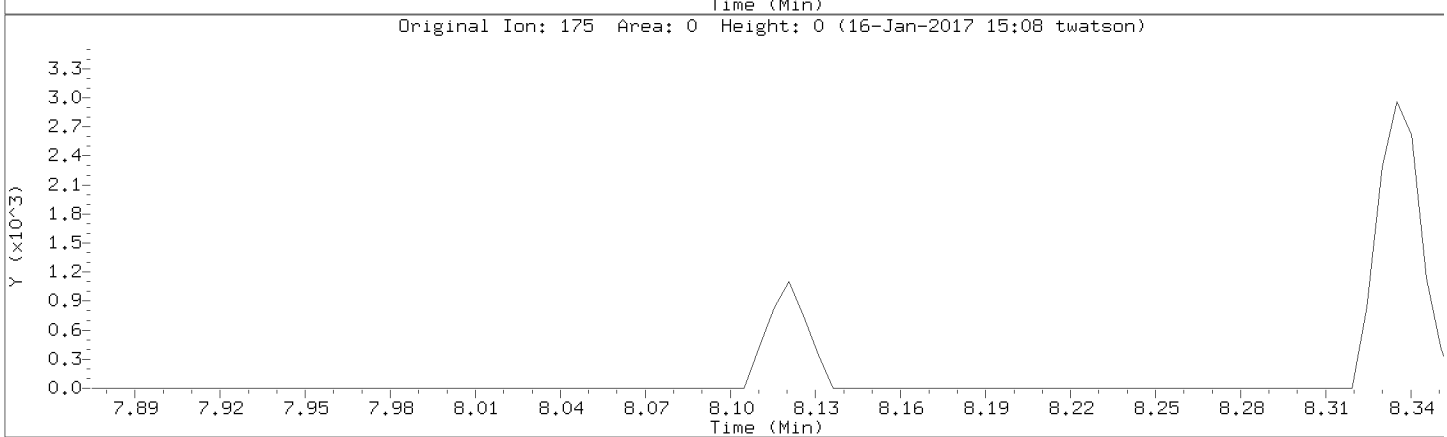
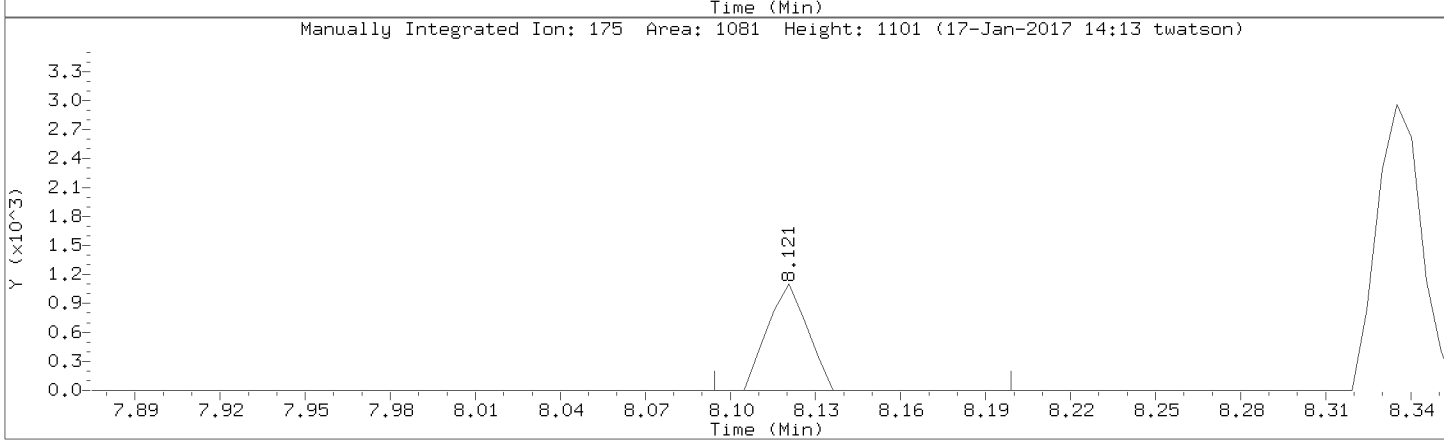
Injection Date: 16-JAN-2017 14:07
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL3,140016:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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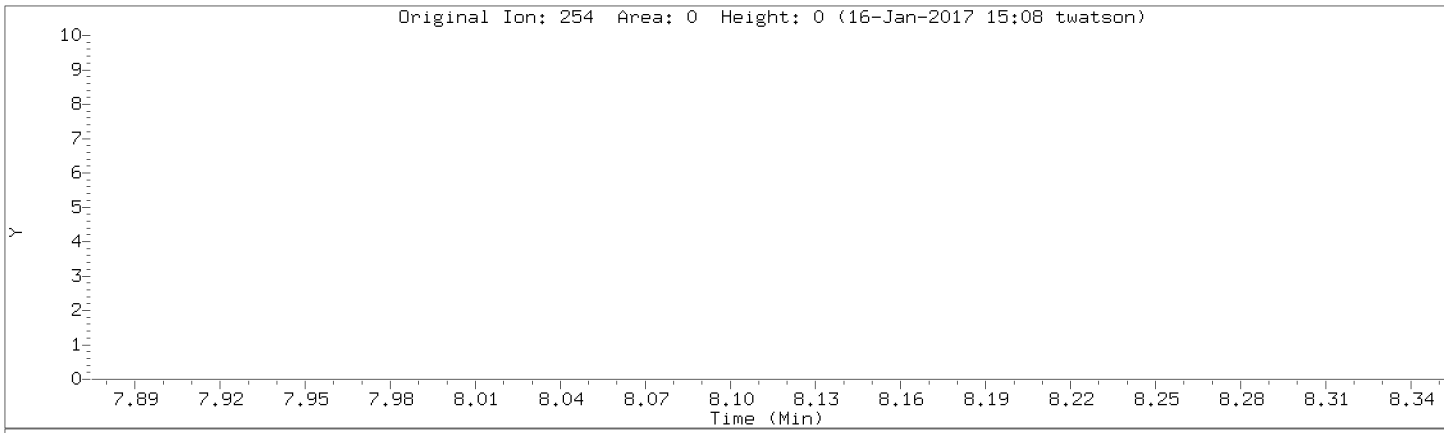
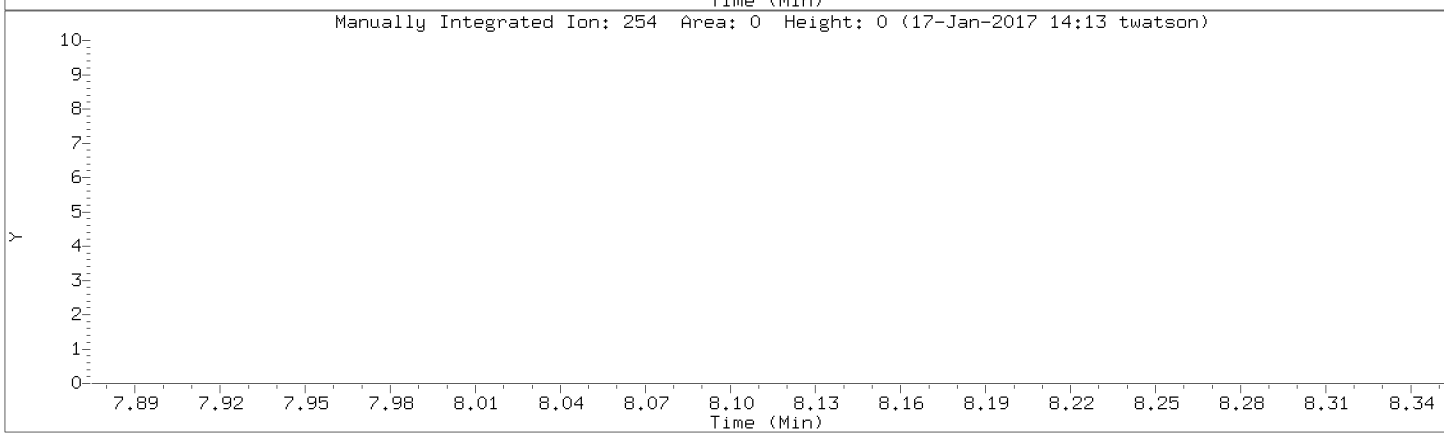
Lab Sample ID: 8260-CAL3,140016:0





Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a04cal4.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a04cal4.d
Lab Smp Id: 8260-CAL4,140017:0 Client Smp ID: 8260-CAL4,140017:0
Inj Date : 16-JAN-2017 14:45
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal4,140017:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.023	1.023	(0.230)	4660	10.0000	9.38(M)	NI
2 Chloromethane	50	1.148	1.148	(0.258)	7445	10.0000	9.92(M)	LT
3 Vinyl Chloride	62	1.159	1.159	(0.261)	5712	10.0000	9.86	
4 Bromomethane	94	1.316	1.316	(0.296)	1656	10.0000	6.06	
5 Chloroethane	64	1.363	1.363	(0.306)	2464	10.0000	9.95	
6 Trichlorofluoromethane	101	1.488	1.488	(0.335)	6323	10.0000	9.56	
7 Diethyl ether	74	1.619	1.619	(0.364)	1820	10.0000	8.16	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.367)	5282	10.0000	8.29	
9 Acrolein	56	1.692	1.697	(0.380)	11459	200.000	208	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.393)	4516	10.0000	8.11	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	3843	10.0000	8.08	
12 Acetone	43	1.765	1.771	(0.397)	7885	50.0000	49.2	
13 Iodomethane	142	1.854	1.854	(0.417)	7753	20.0000	16.4	
14 Carbon Disulfide	76	1.907	1.907	(0.429)	15195	10.0000	8.93	
20 Methyl Acetate	43	1.943	1.948	(0.437)	4661	10.0000	10.1	
15 Acetonitrile	39	1.964	1.969	(0.442)	12038	10.0000	8.82	
16 allyl chloride	41	1.964	1.969	(0.442)	18294	20.0000	17.4	
17 Methylene Chloride	84	2.048	2.048	(0.460)	4638	10.0000	8.71	
18 tert-Butyl Alcohol	59	2.084	2.090	(0.469)	826	20.0000	14.2(M)	NI
19 Acrylonitrile	53	2.189	2.189	(0.492)	7170	40.0000	35.6	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.498)	12592	10.0000	8.69	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a04cal4.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.236	2.236	(0.503)	4438	10.0000	8.58	
23 n-Hexane	57	2.424	2.430	(0.545)	7766	10.0000	7.64	
25 Vinyl Acetate	43	2.539	2.545	(0.571)	50591	40.0000	41.1	
26 1,1-Dichloroethane	63	2.560	2.560	(0.576)	9415	10.0000	8.70	
28 Chloroprene	53	2.613	2.623	(0.587)	7956	10.0000	8.28	
29 2-Butanone	43	3.036	3.047	(0.683)	10713	50.0000	49.1	
30 1,2-Dichloroethene (cis)	96	3.068	3.073	(0.690)	5060	10.0000	8.80	
31 2,2-Dichloropropane	77	3.073	3.078	(0.691)	6706	10.0000	8.39	
27 Ethyl Acetate	88	3.083	3.094	(0.693)	961	80.0000	56.5	
38 Methacrylonitrile	41	3.261	3.266	(0.733)	3031	10.0000	8.80	
33 Bromochloromethane	49	3.319	3.324	(0.746)	5005	10.0000	9.28	
34 Tetrahydrofuran	42	3.334	3.340	(0.750)	1442	10.0000	8.51(M)	NI
35 Chloroform	83	3.434	3.444	(0.772)	8588	10.0000	8.40	
36 1,1,1-Trichloroethane	97	3.622	3.633	(0.814)	7134	10.0000	8.35	
$ 37 Dibromofluoromethane (S)	113	3.622	3.627	(0.814)	28722	50.0000	51.0	
39 Cyclohexane	56	3.711	3.727	(0.834)	9011	10.0000	7.96	
151 n-butyl chloride	56	3.779	3.789	(0.850)	11016	10.0000	8.40	
40 Carbon Tetrachloride	117	3.821	3.831	(0.859)	5887	10.0000	8.13	
41 1,1-Dichloropropene	75	3.826	3.831	(0.860)	6579	10.0000	8.36	
42 Benzene	78	4.067	4.077	(0.914)	18993	10.0000	8.02	
43 1,2-Dichloroethane	62	4.150	4.161	(0.933)	6714	10.0000	8.81(M)	NI
24 Isobutyl alcohol	43	4.161	4.171	(0.935)	40548	10.0000	8.60(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.951)	20595	10.0000	8.09	
* 46 Fluorobenzene (IS)	96	4.448	4.454	(1.000)	112401	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.098)	5036	10.0000	8.41	
48 Methylcyclohexane	55	5.144	5.155	(1.156)	7801	10.0000	7.88	
49 1,2-Dichloropropane	63	5.181	5.191	(1.165)	5487	10.0000	8.37(M)	NI
51 1,4-Dioxane	88	5.280	5.285	(1.187)	340	200.000	173(M)	NI
50 Dibromomethane	93	5.280	5.285	(1.187)	3106	10.0000	9.09	
52 Methyl methacrylate	69	5.280	5.285	(1.187)	2754	10.0000	8.22	
53 Bromodichloromethane	83	5.494	5.500	(1.235)	7214	10.0000	8.81	
54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	6006	20.0000	17.4	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	8661	10.0000	8.55	
56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	29461	50.0000	43.8	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	113753	50.0000	49.9	
58 Toluene	91	6.326	6.331	(0.841)	22734	10.0000	8.35	
59 trans-1,3-Dichloropropene	75	6.593	6.598	(0.876)	7490	10.0000	8.60	
60 Ethyl Methacrylate	69	6.656	6.661	(0.885)	5881	10.0000	8.43(M)	NI
61 1,1,2-Trichloroethane	83	6.765	6.776	(0.899)	3793	10.0000	8.65	
62 Tetrachloroethene	166	6.823	6.828	(0.907)	5849	10.0000	8.02	
63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	7469	10.0000	8.33	
64 2-Hexanone	43	6.954	6.959	(0.924)	21696	50.0000	43.9	
65 Dibromochloromethane	129	7.084	7.090	(0.942)	5390	10.0000	8.43	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	4636	10.0000	8.65	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	93912	50.0000		
68 Chlorobenzene	112	7.545	7.555	(1.003)	15764	10.0000	8.53	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	5562	10.0000	8.22	
70 Ethylbenzene	106	7.623	7.628	(1.013)	8217	10.0000	7.96	
71 m&p-Xylene	106	7.717	7.728	(1.026)	21215	20.0000	17.4	
72 o-Xylene	106	7.979	7.984	(1.060)	10465	10.0000	8.20	
73 Styrene	104	7.995	8.000	(1.063)	18003	10.0000	8.11	
74 Bromoform	173	8.120	8.125	(0.901)	3897	10.0000	8.50(M)	NI
75 Isopropylbenzene	105	8.219	8.225	(1.092)	28180	10.0000	8.07	
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	47607	50.0000	49.8	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a04cal4.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 Bromobenzene	77	8.413	8.418	(1.118)	11426	10.0000	8.26	
78 1,1,2,2-Tetrachloroethane	83	8.418	8.423	(0.934)	6703	10.0000	8.48	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	1910	10.0000	8.62	
80 1,2,3-Trichloropropane	110	8.455	8.455	(0.938)	1594	10.0000	8.35	
81 n-Propylbenzene	91	8.476	8.481	(0.941)	35055	10.0000	8.43	
82 2-Chlorotoluene	91	8.528	8.538	(0.947)	20932	10.0000	8.52	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	24763	10.0000	8.37	
84 4-Chlorotoluene	126	8.606	8.612	(0.955)	7033	10.0000	8.21	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	21325	10.0000	8.26	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	26476	10.0000	8.57	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	31876	10.0000	7.72	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	14538	10.0000	8.63	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	27607	10.0000	8.39	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	56224	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	14372	10.0000	8.38	
92 n-Butylbenzene	91	9.197	9.203	(1.021)	26868	10.0000	8.35	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	14372	10.0000	8.72	
94 1,2-Dibromo-3-chloropropane	155	9.626	9.632	(1.069)	1185	10.0000	8.22	
95 1,2,4-Trichlorobenzene	180	10.040	10.050	(1.114)	11067	10.0000	8.54	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	6376	10.0000	8.23	
97 Naphthalene	128	10.191	10.196	(1.131)	23889	10.0000	8.20	
98 1,2,3-Trichlorobenzene	180	10.312	10.317	(1.145)	10602	10.0000	8.25	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	10965	10.0000	8.29	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	10162	10.0000	8.54	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

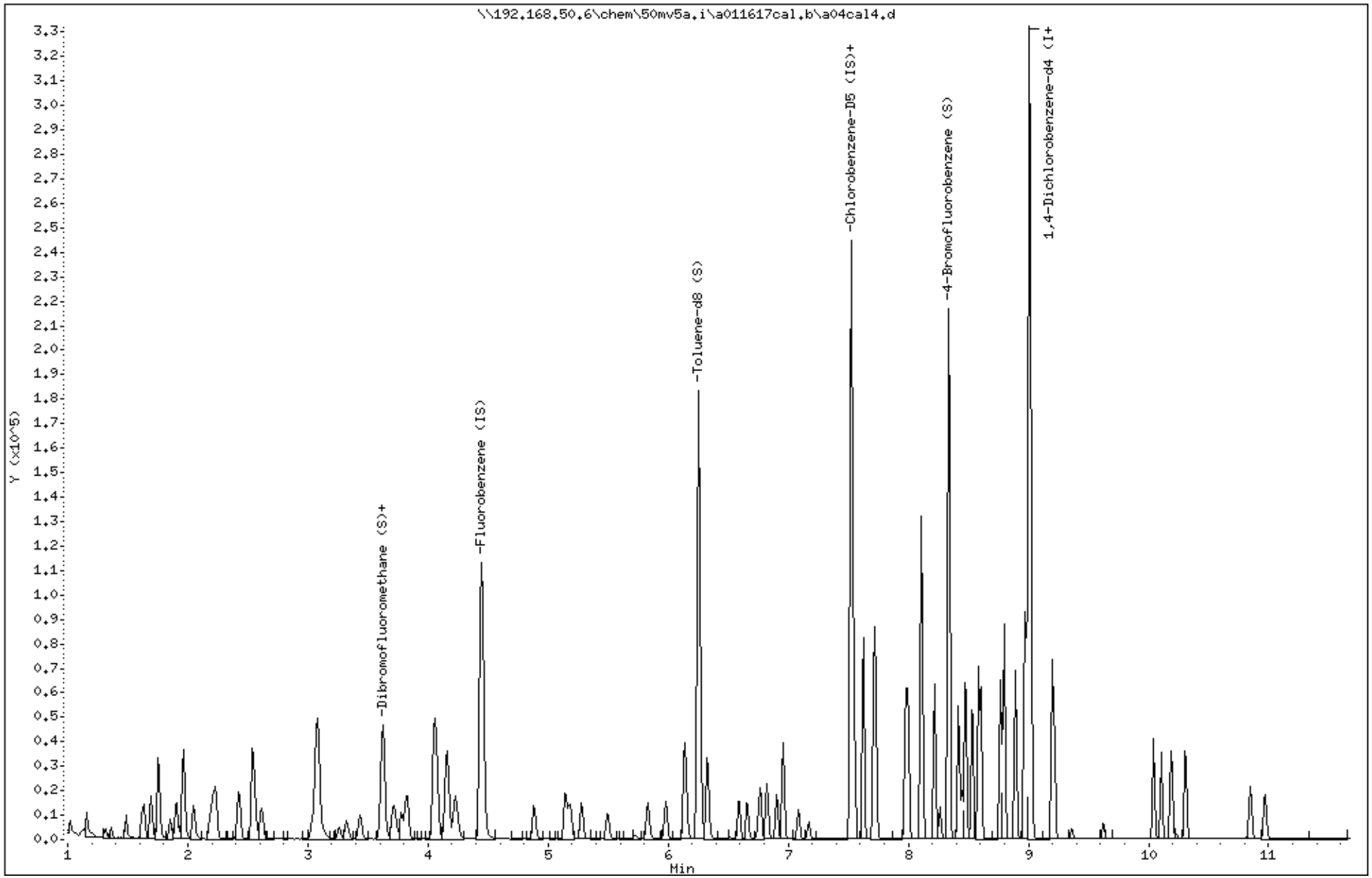
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a04cal4.d
Date : 16-JAN-2017 14:45
Client ID: 8260-CAL4,140017:0
Sample Info: 8260-CAL4,140017:0

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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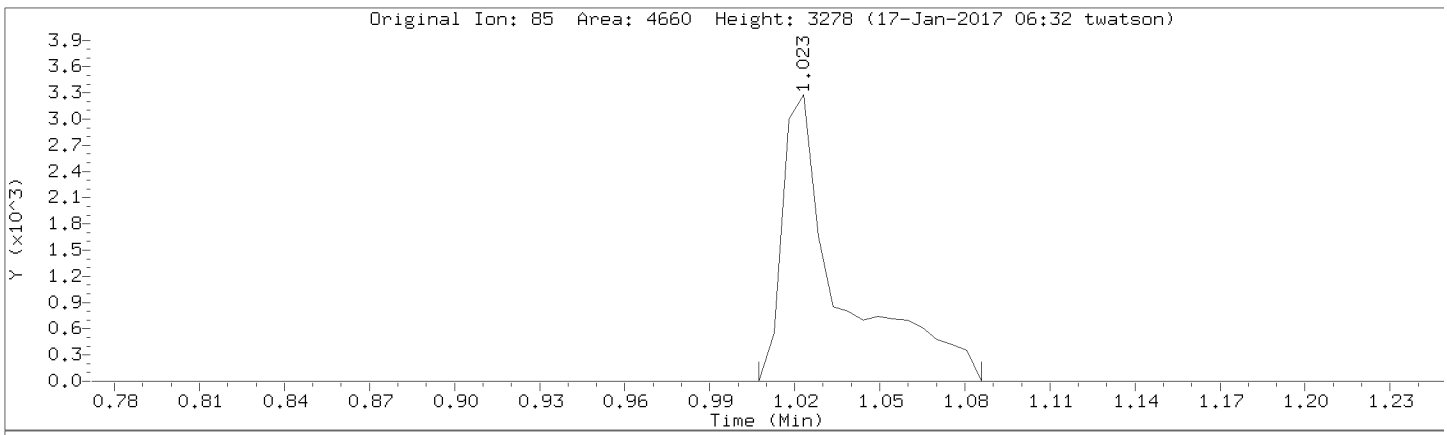
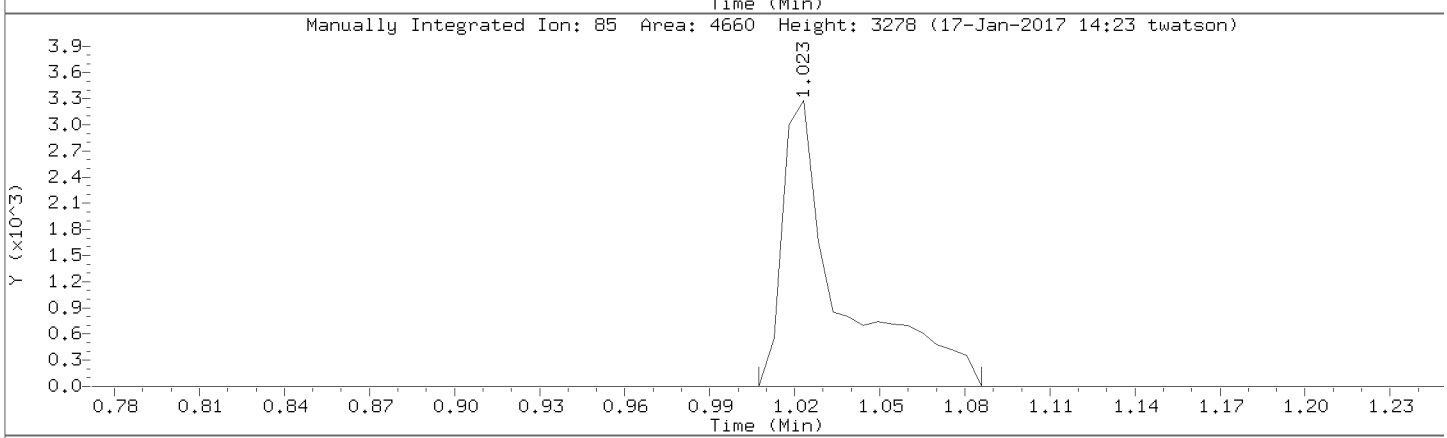
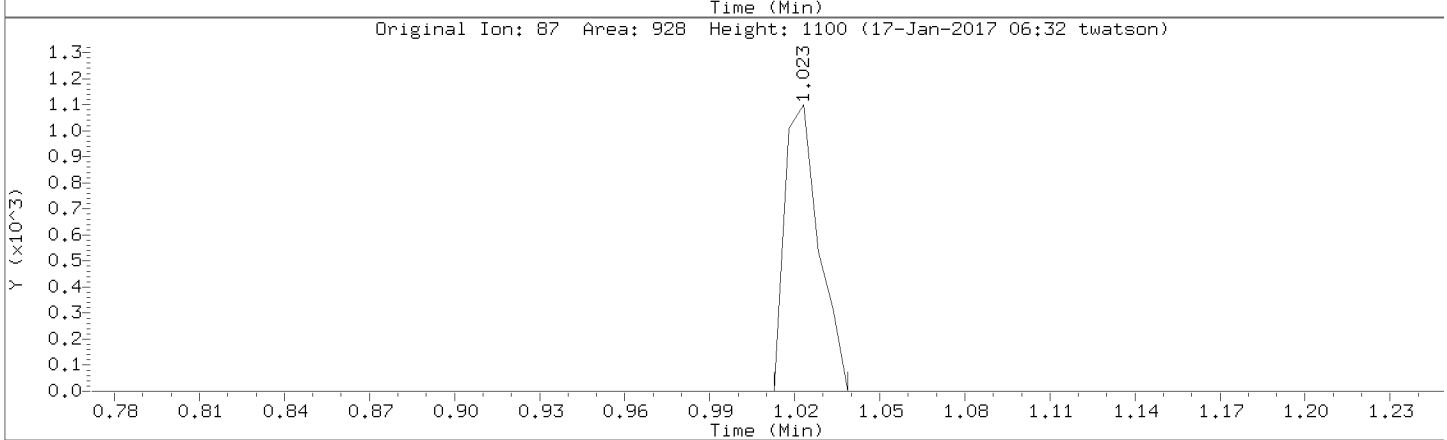
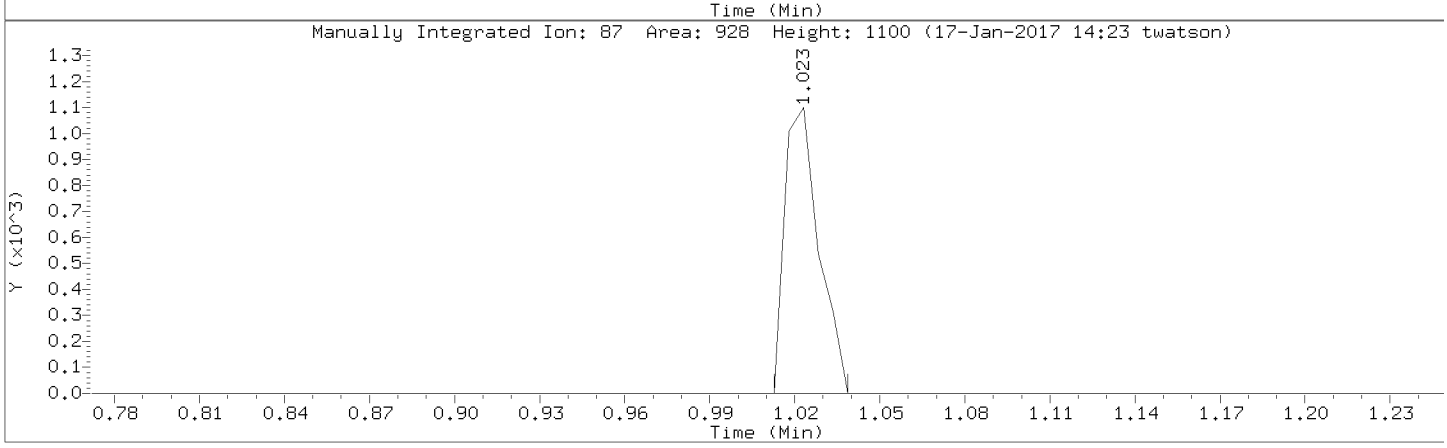
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8









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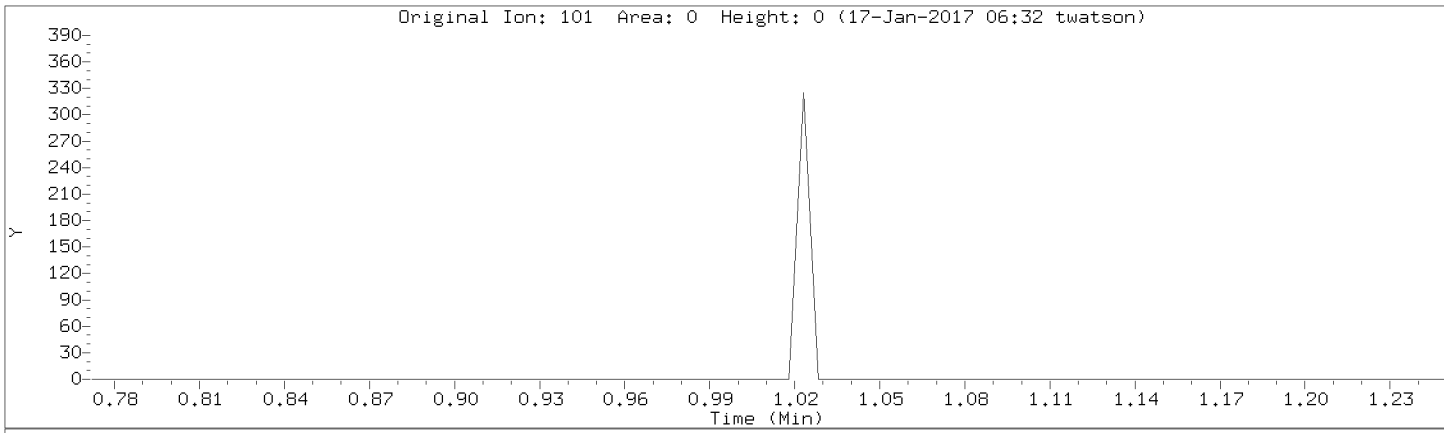
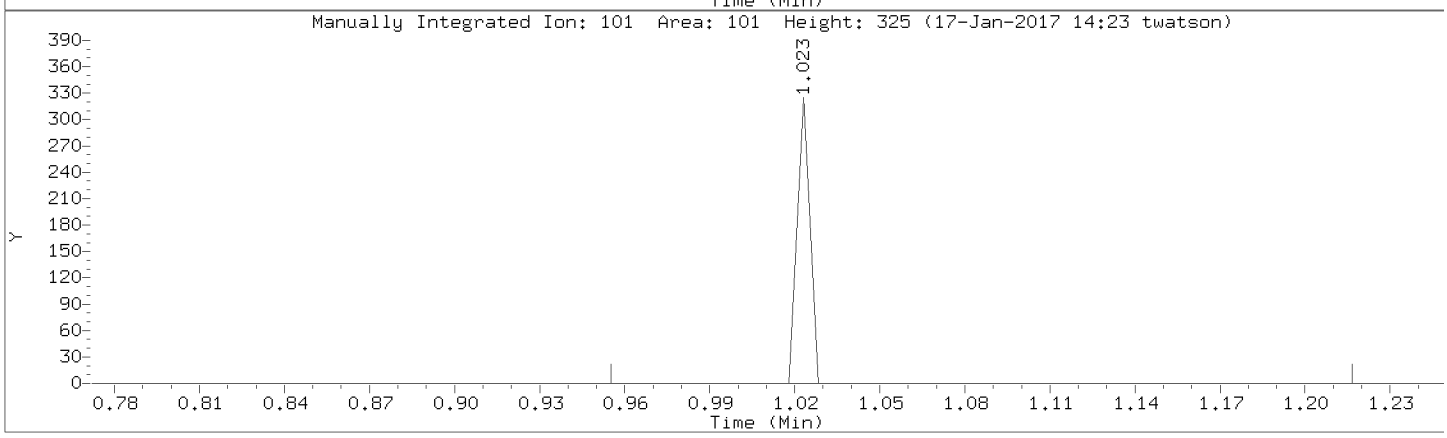
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0





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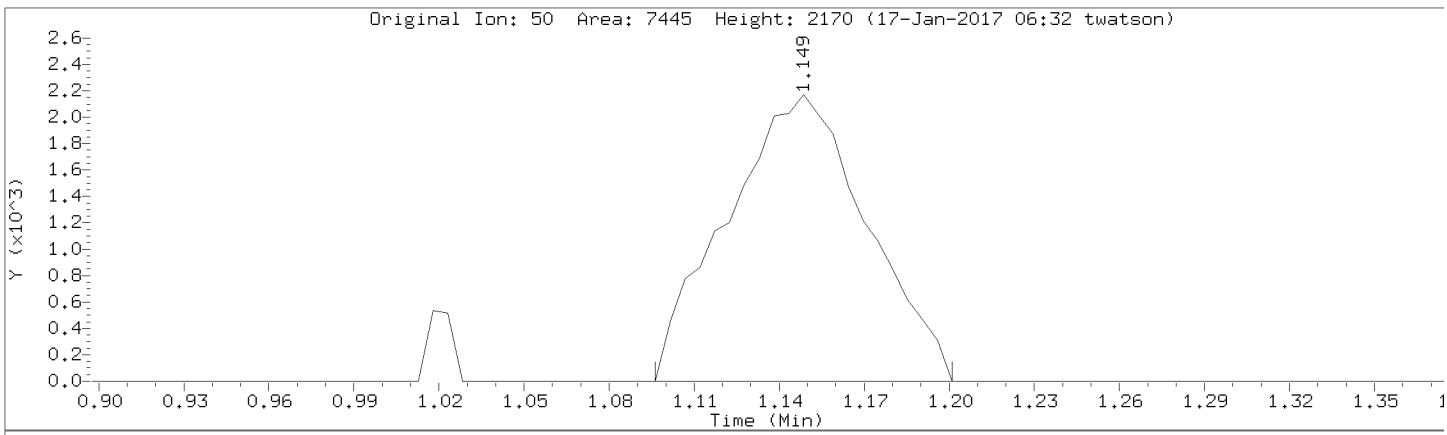
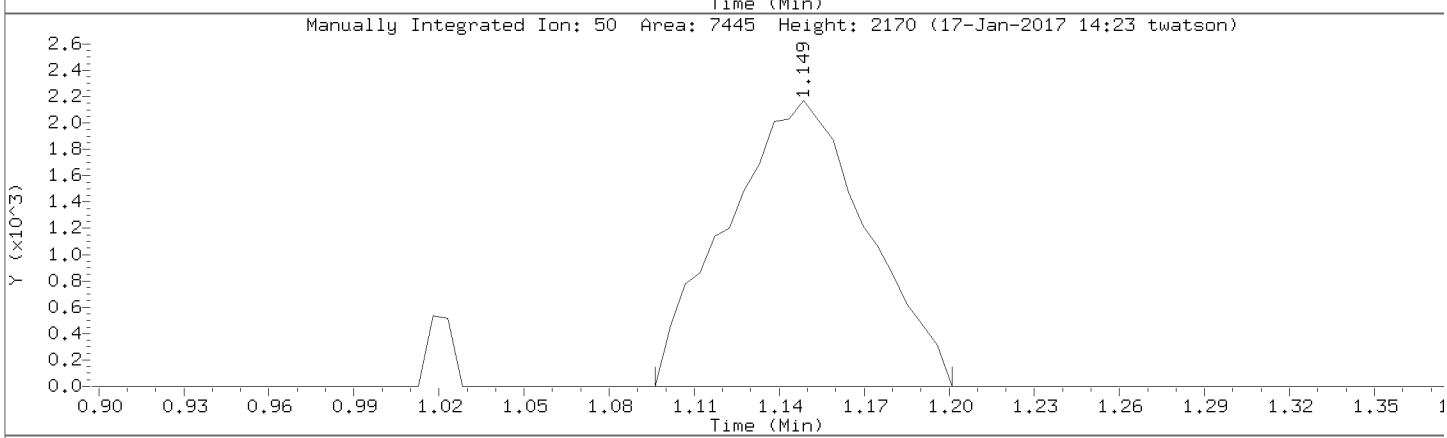
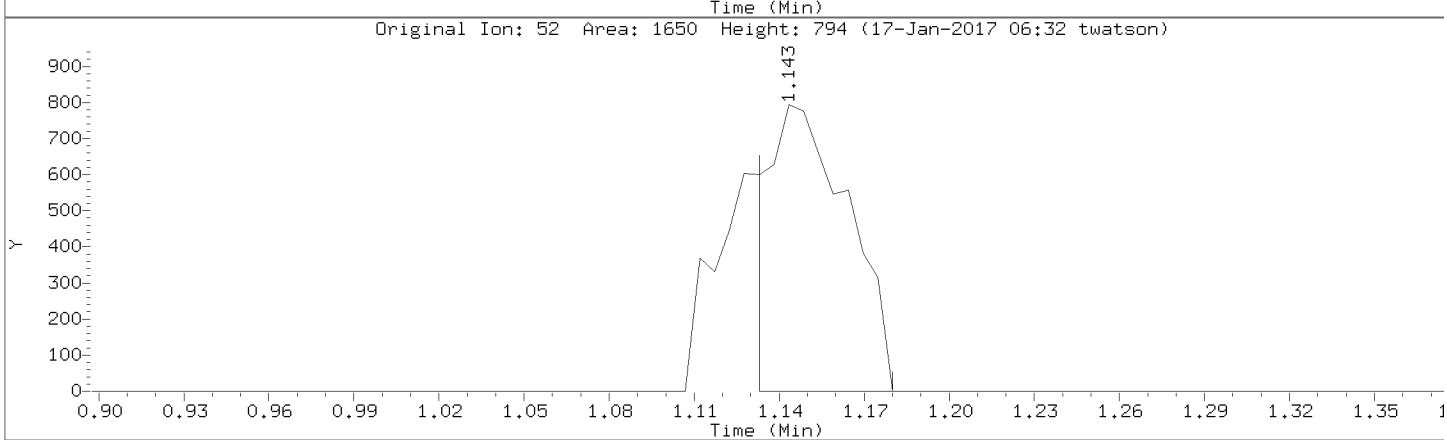
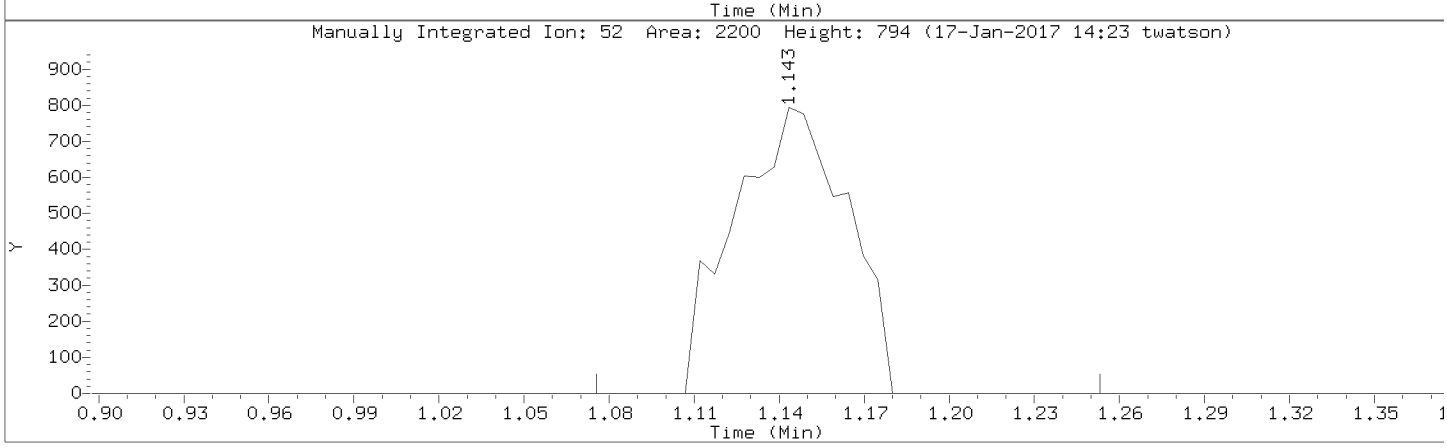
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Chloromethane Review Code: LT
CAS Number: 74-87-3









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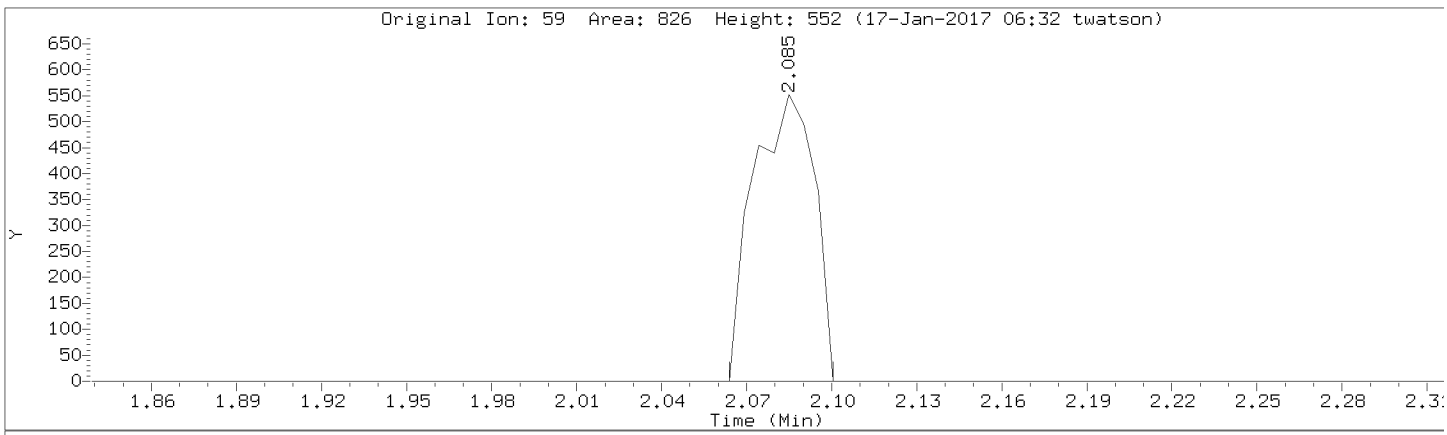
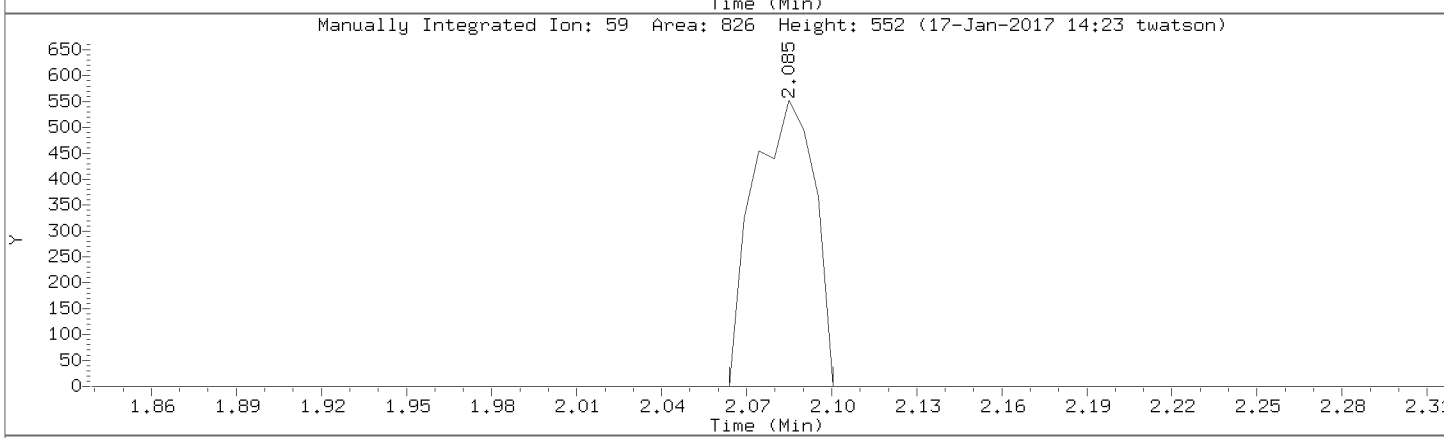
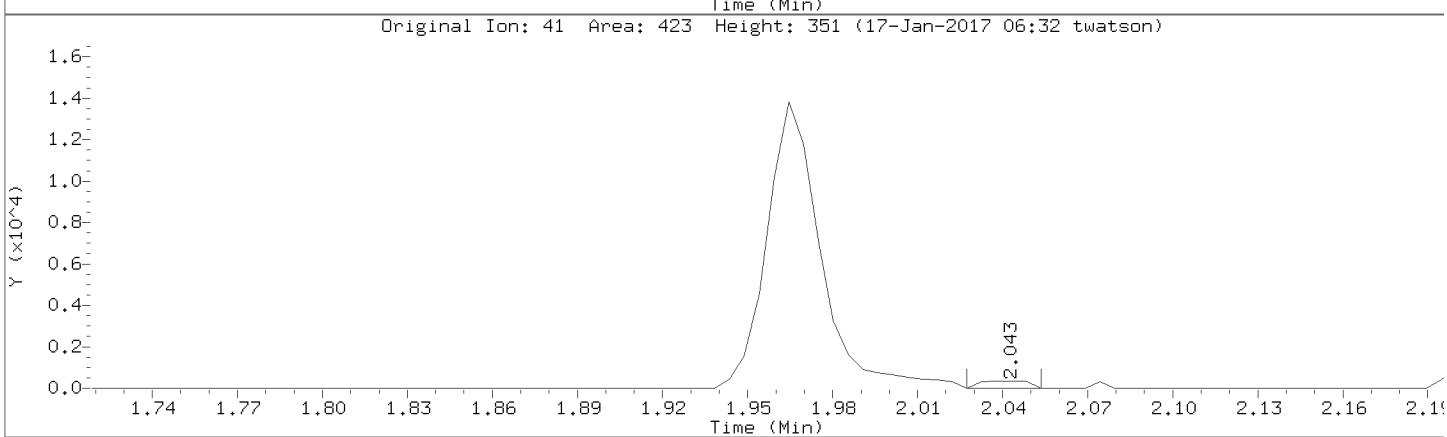
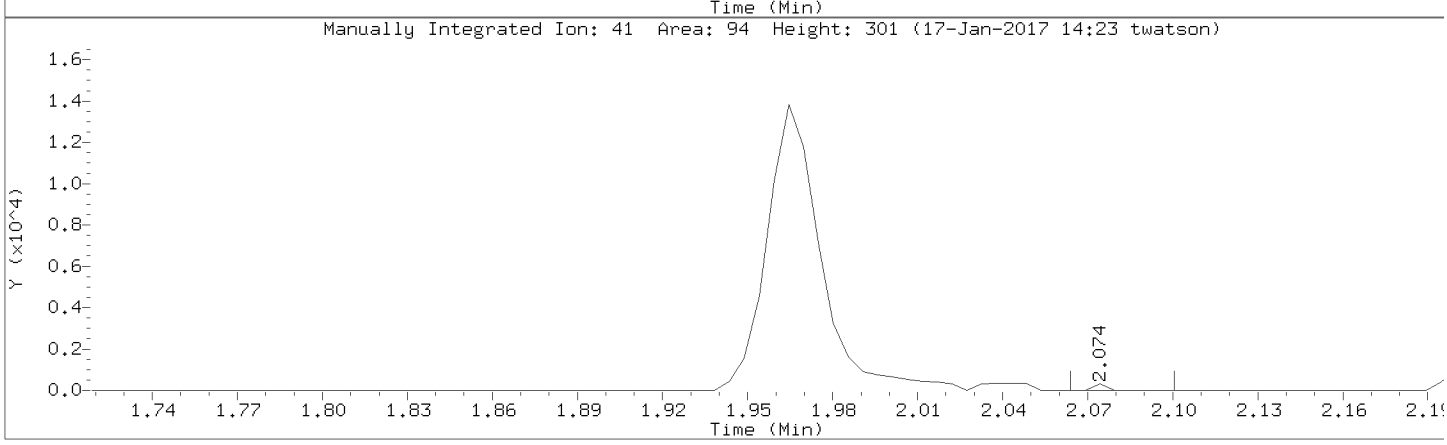
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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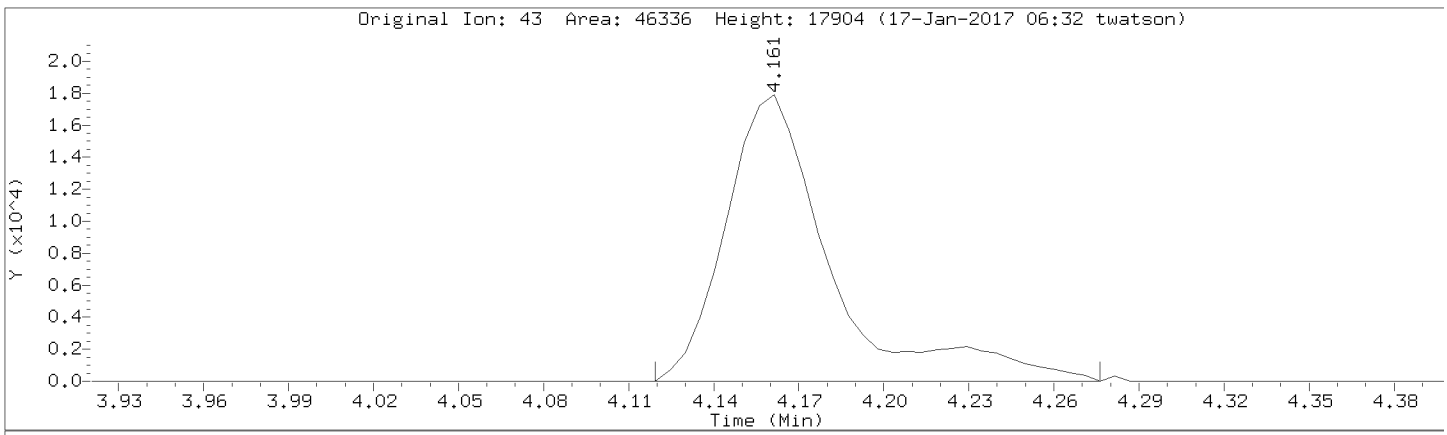
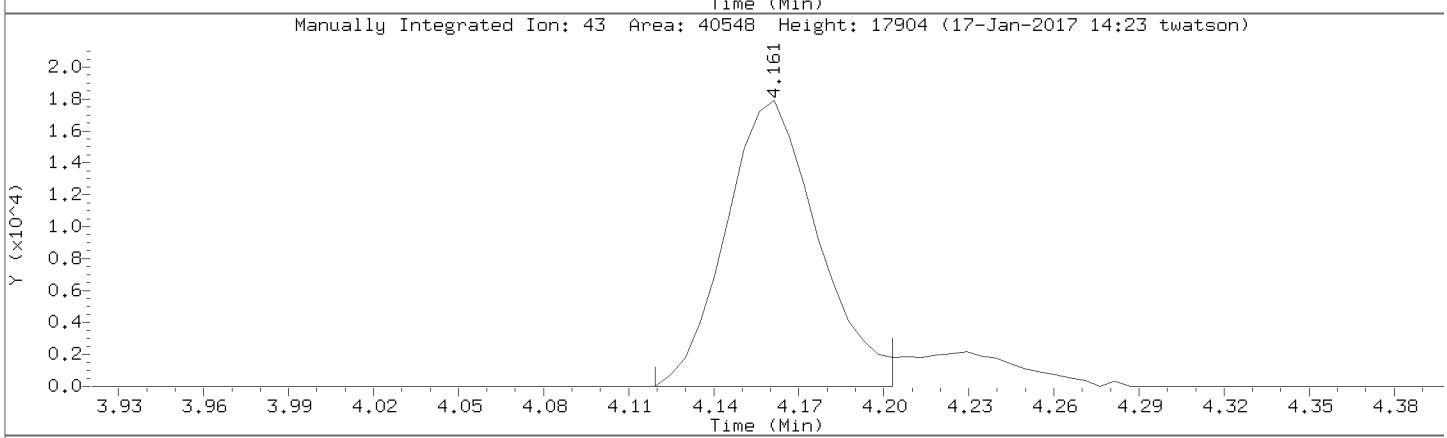
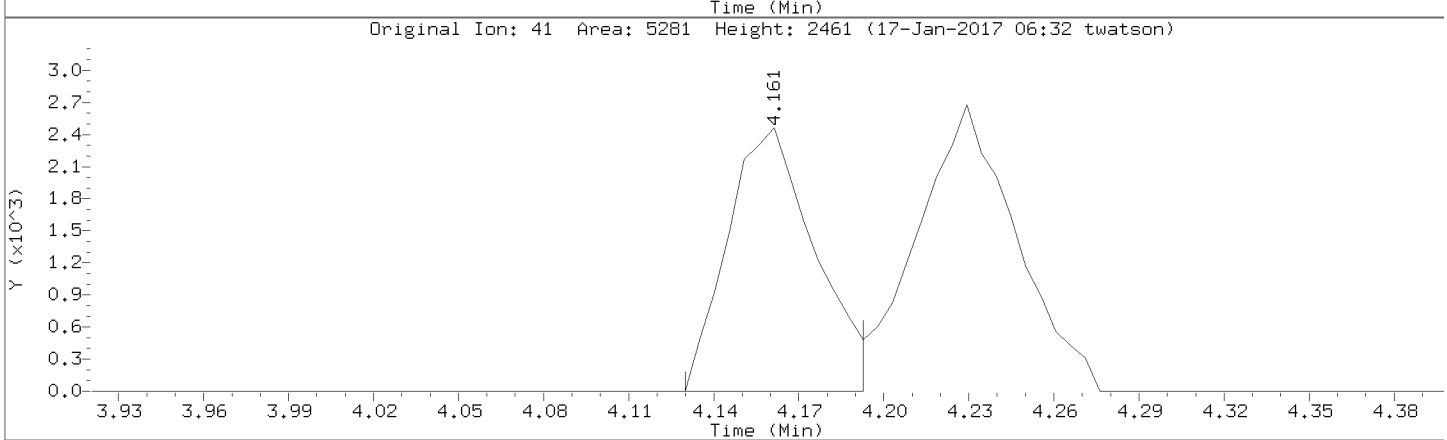
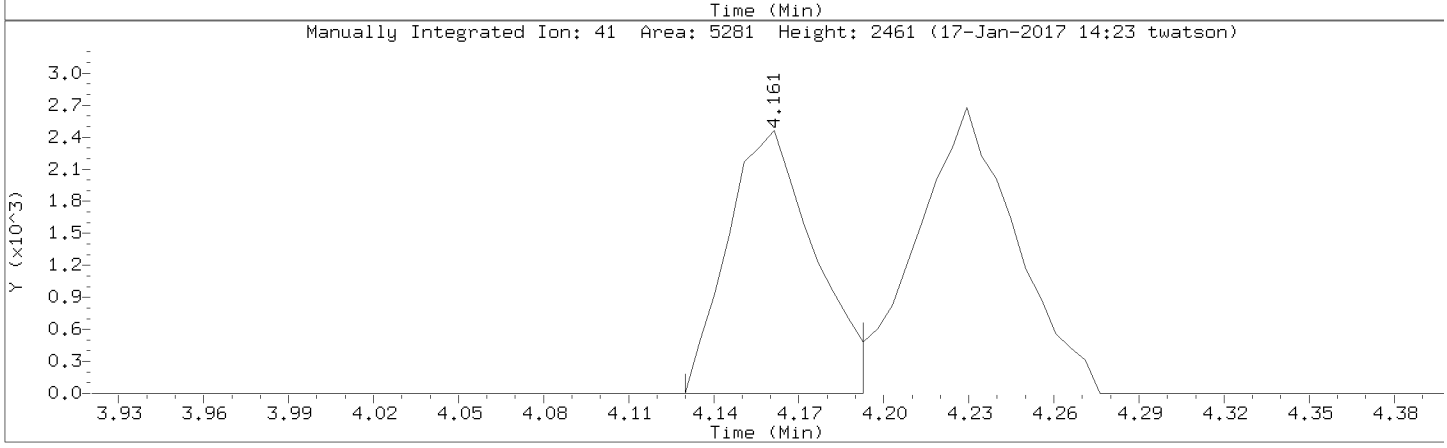
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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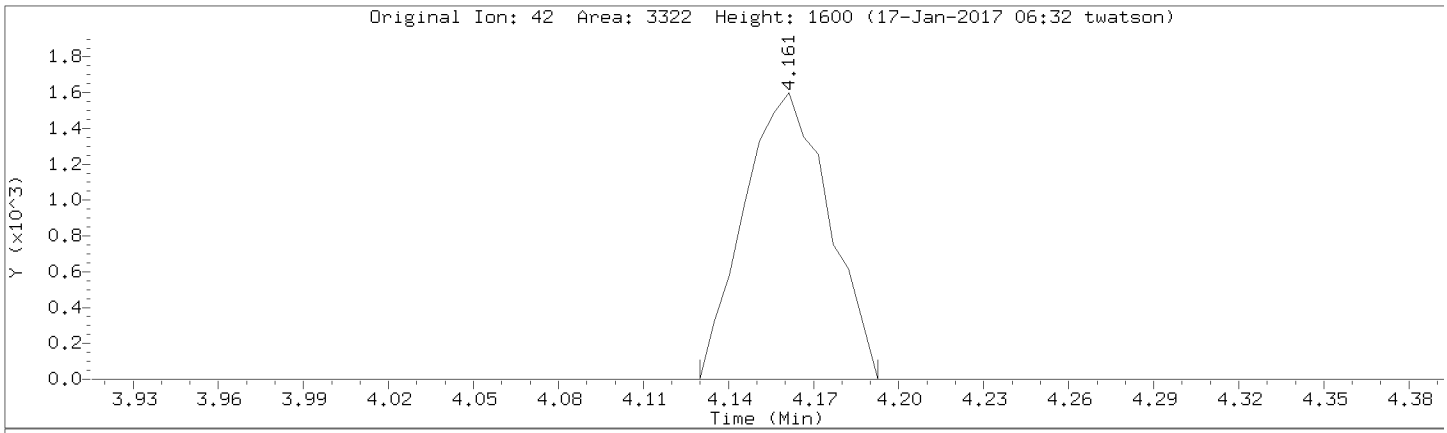
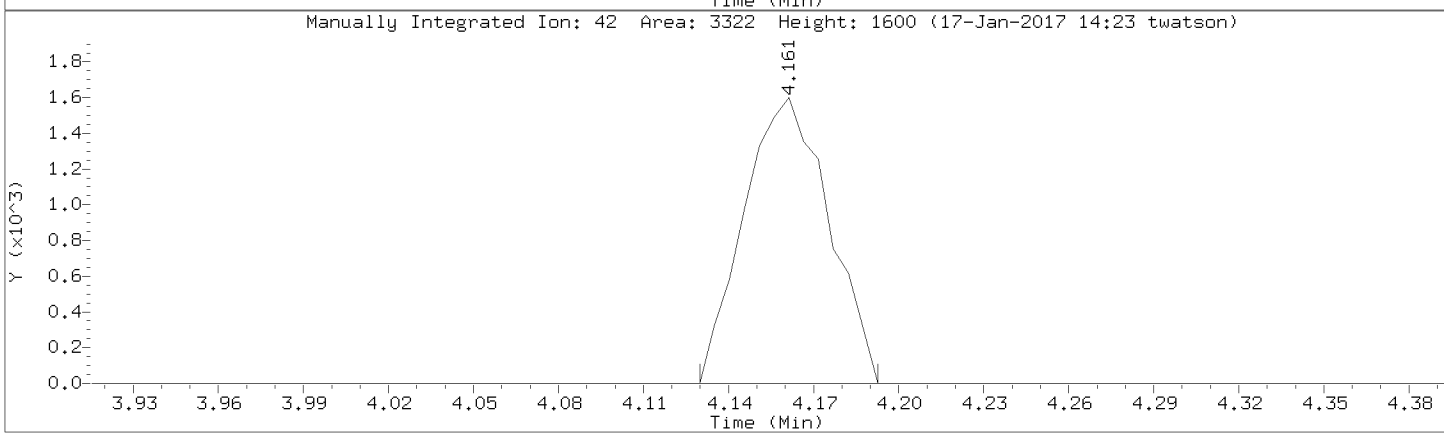
Lab Sample ID: 8260-CAL4,140017:0





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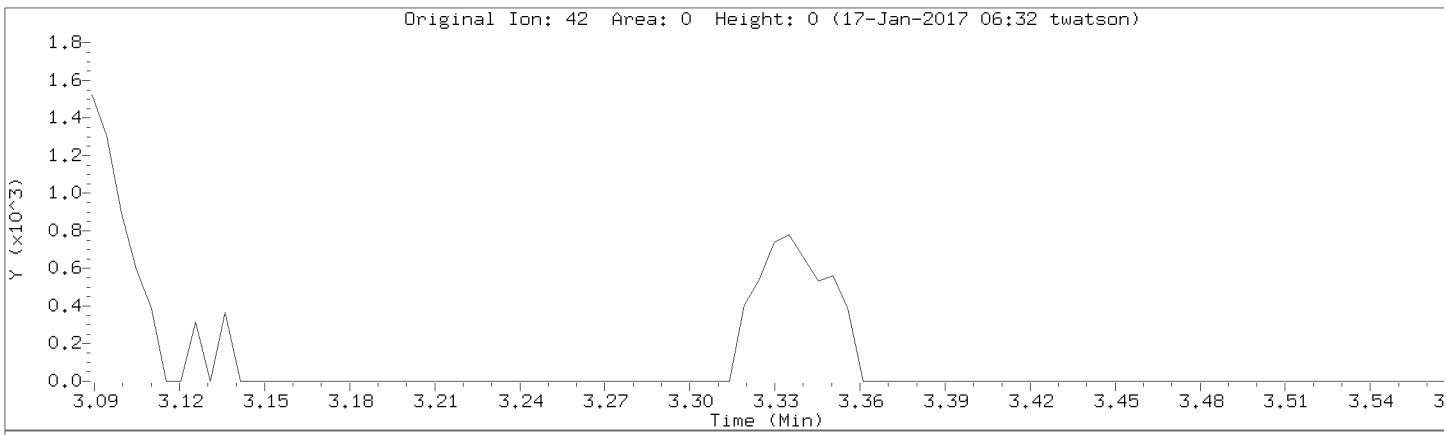
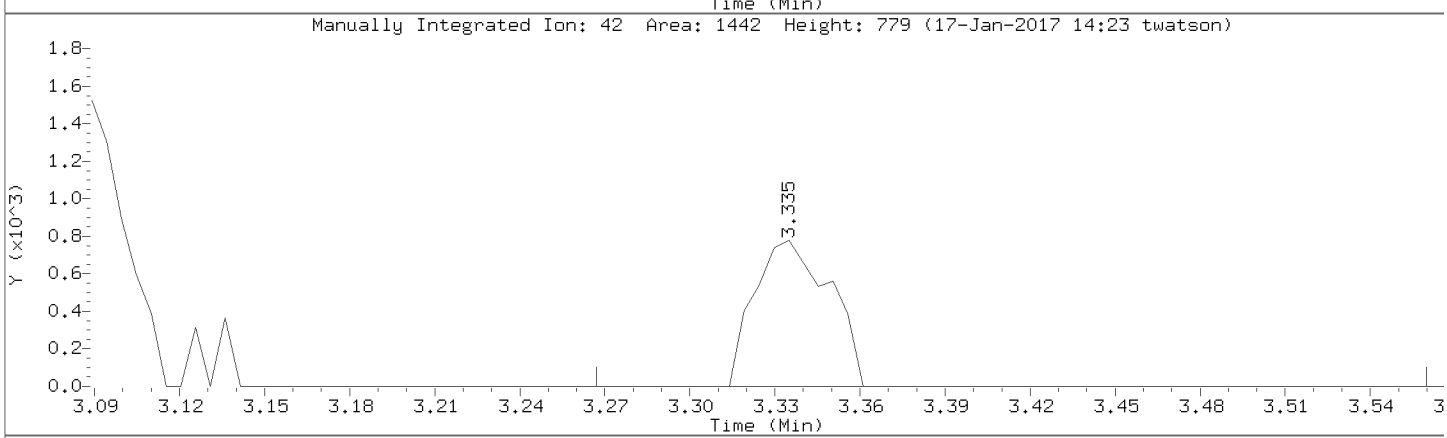
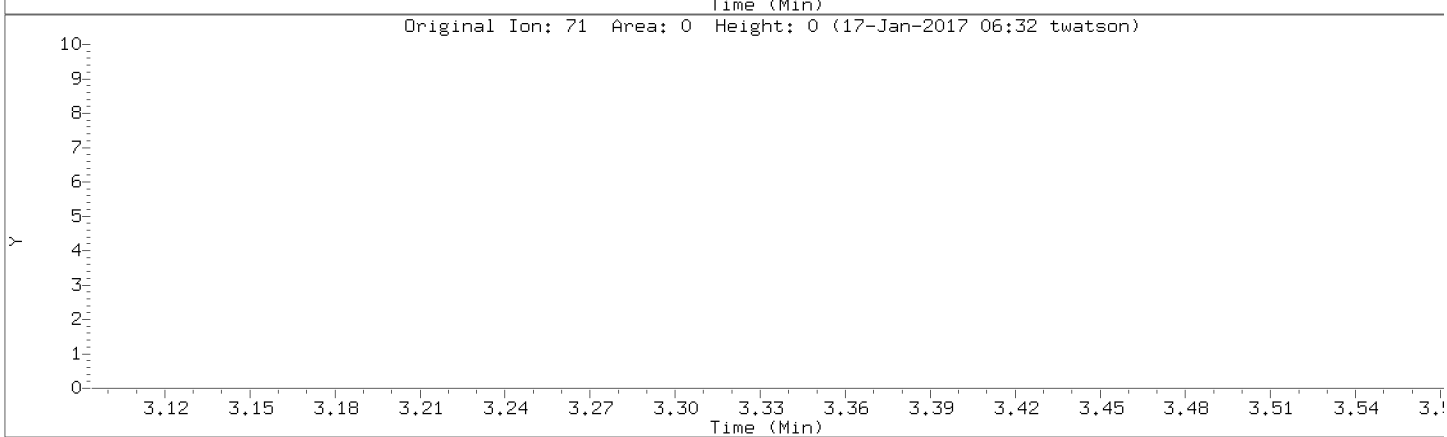
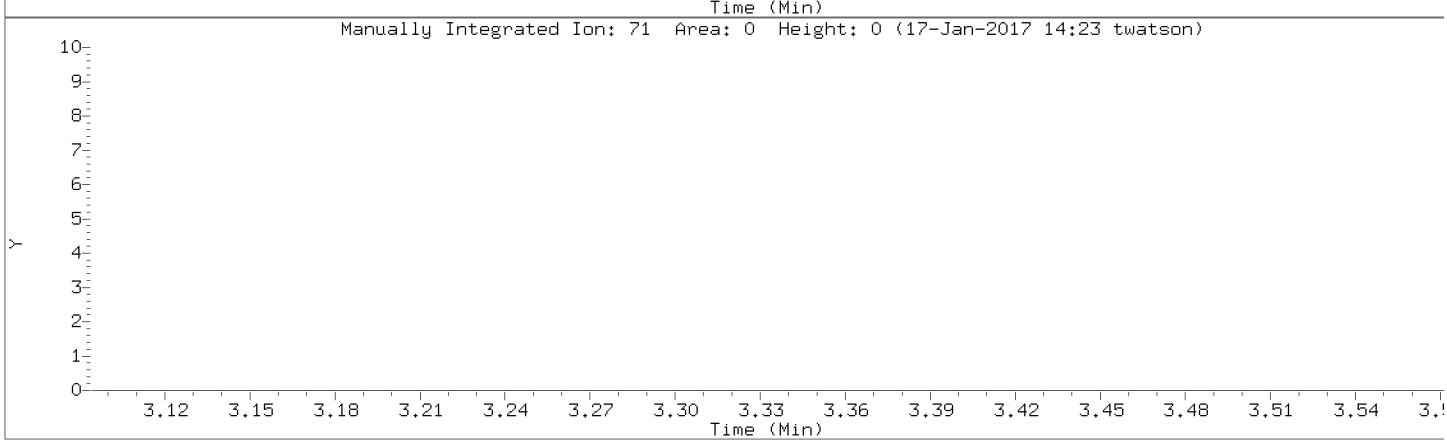
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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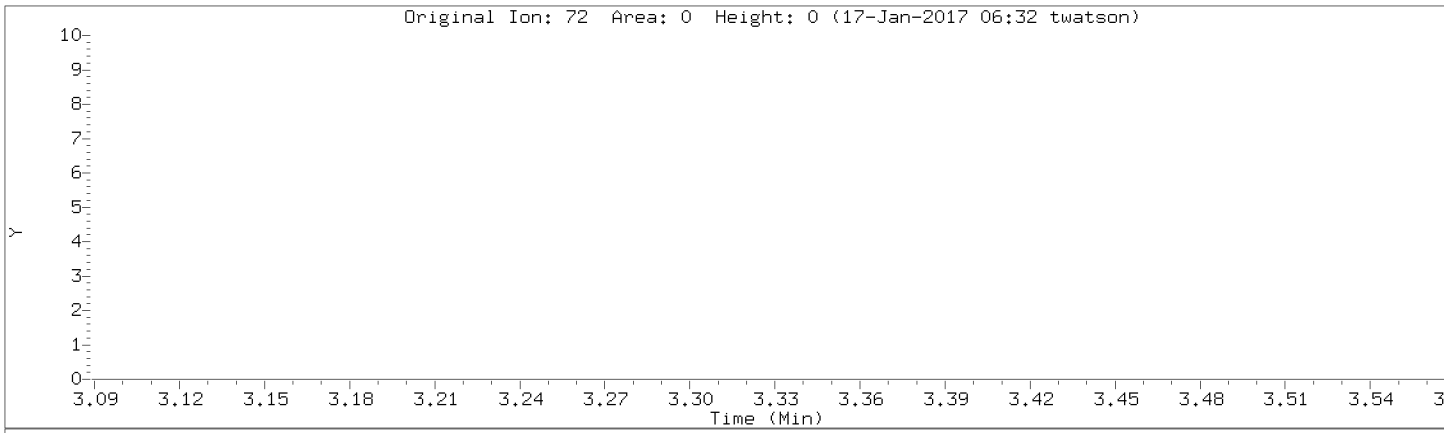
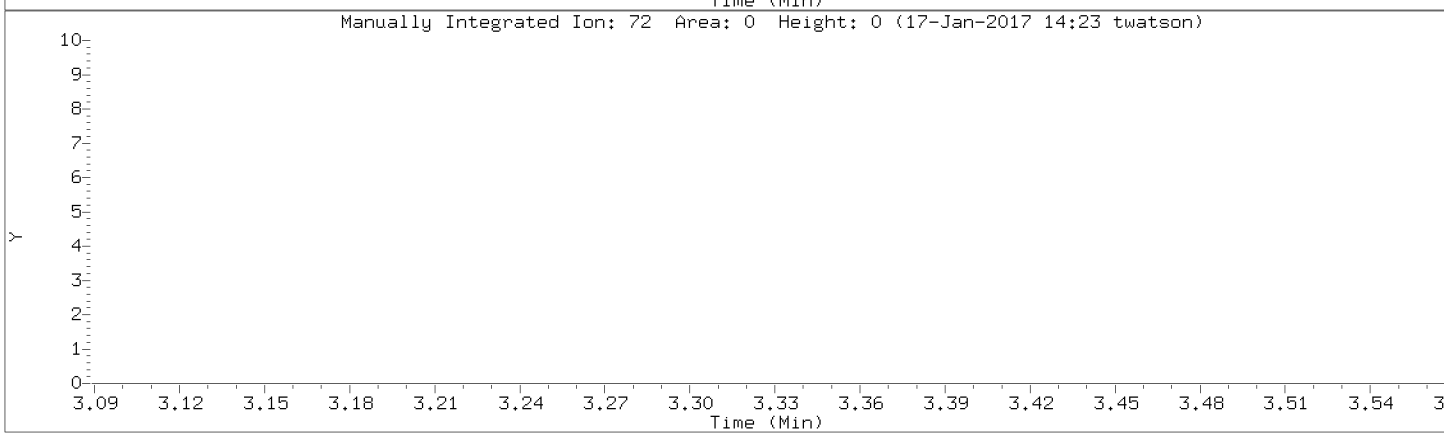
Lab Sample ID: 8260-CAL4,140017:0





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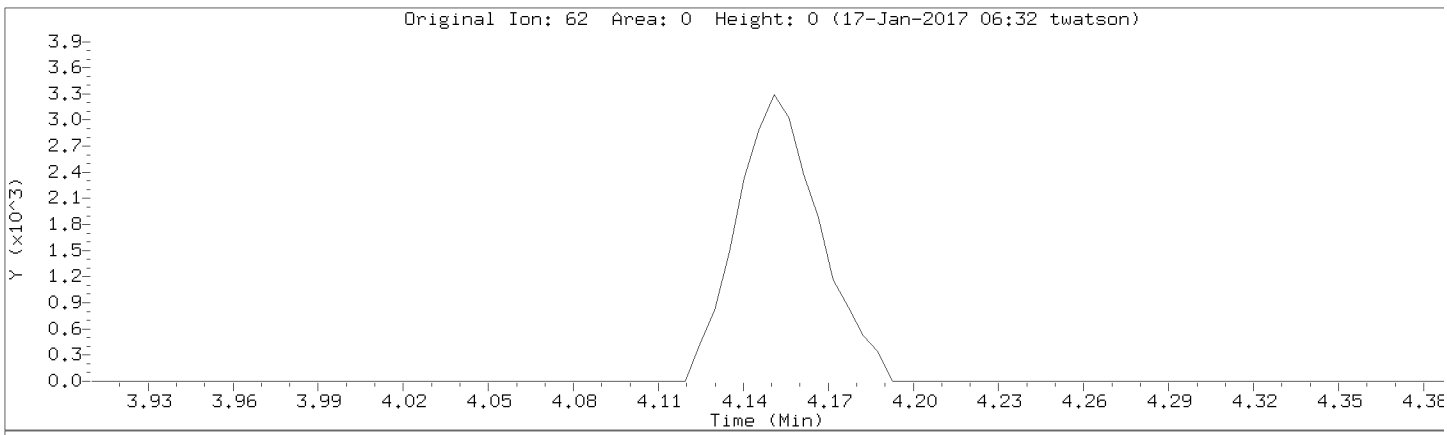
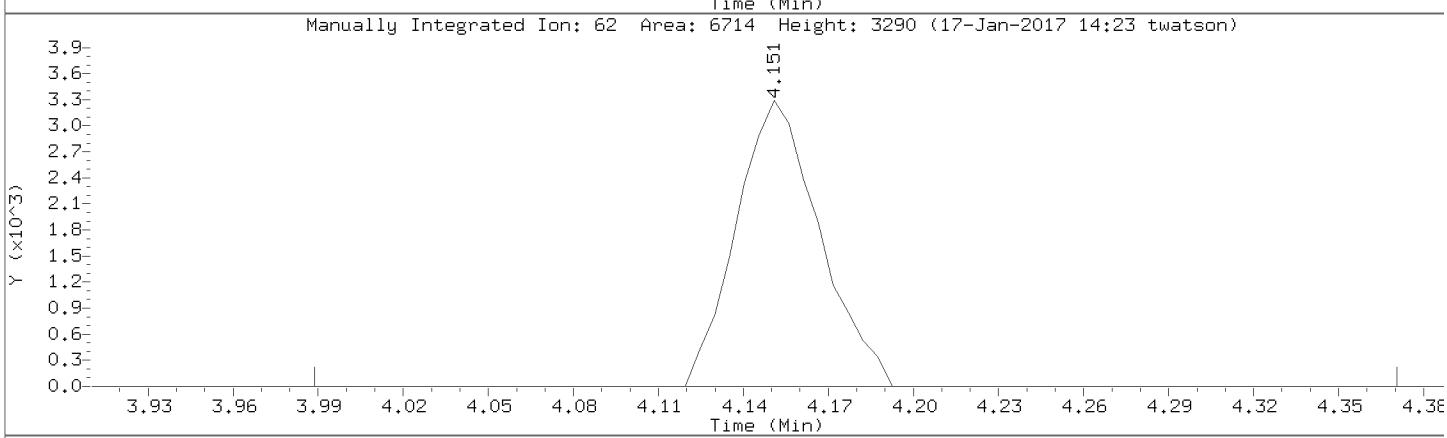
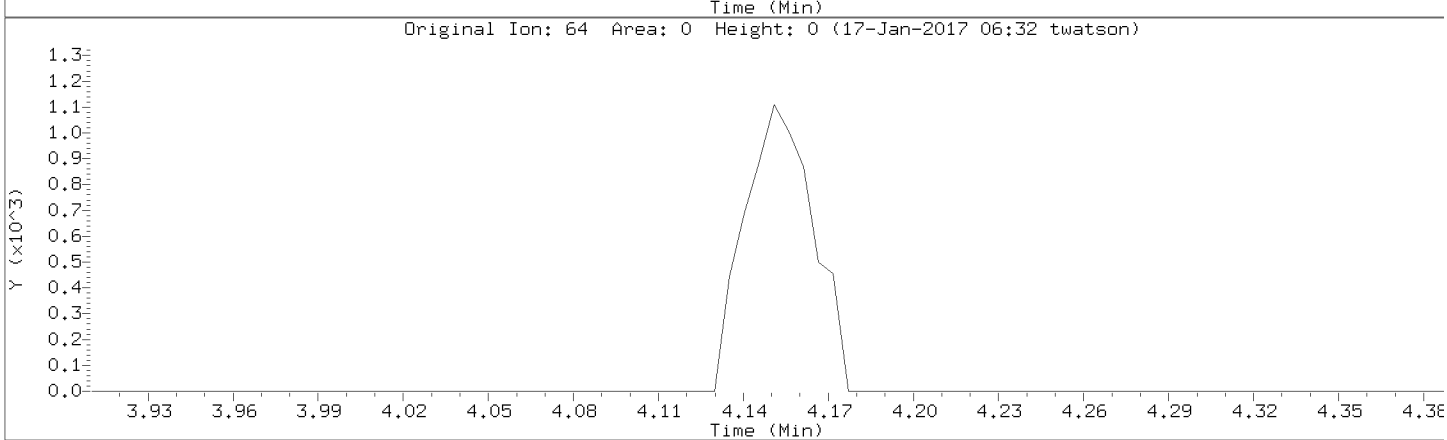
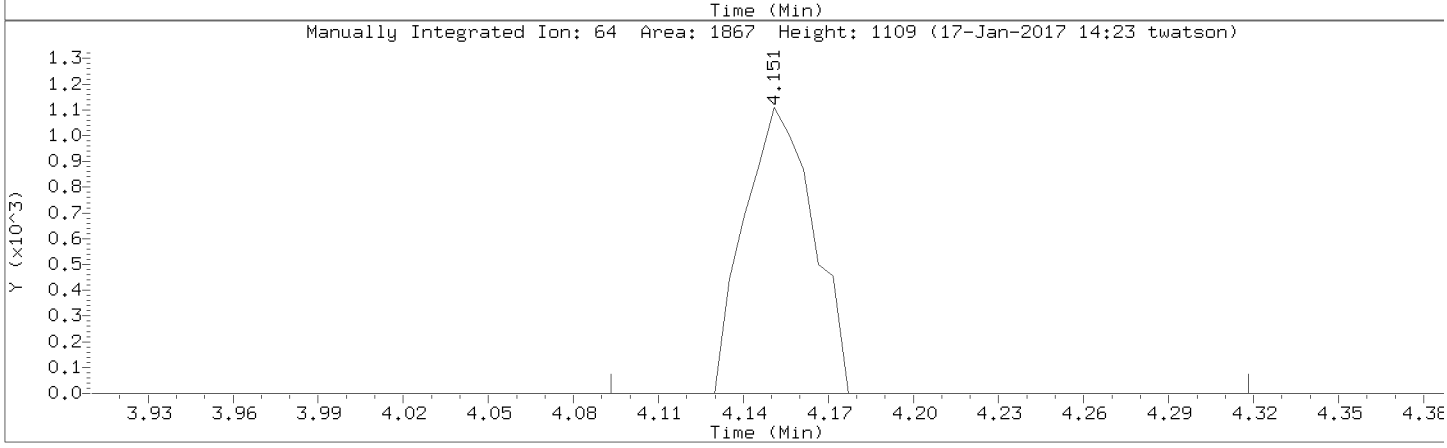
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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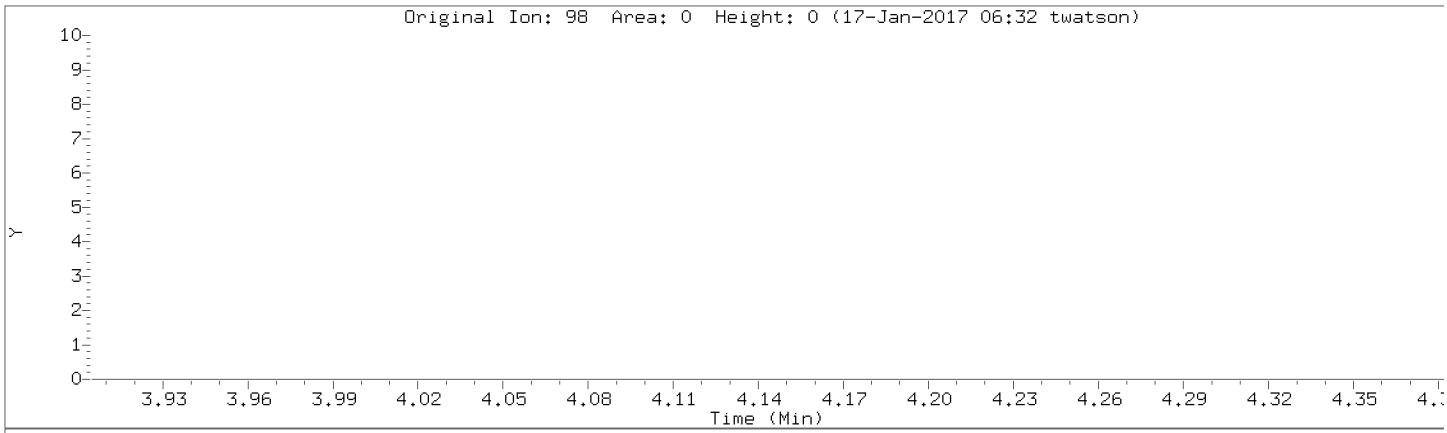
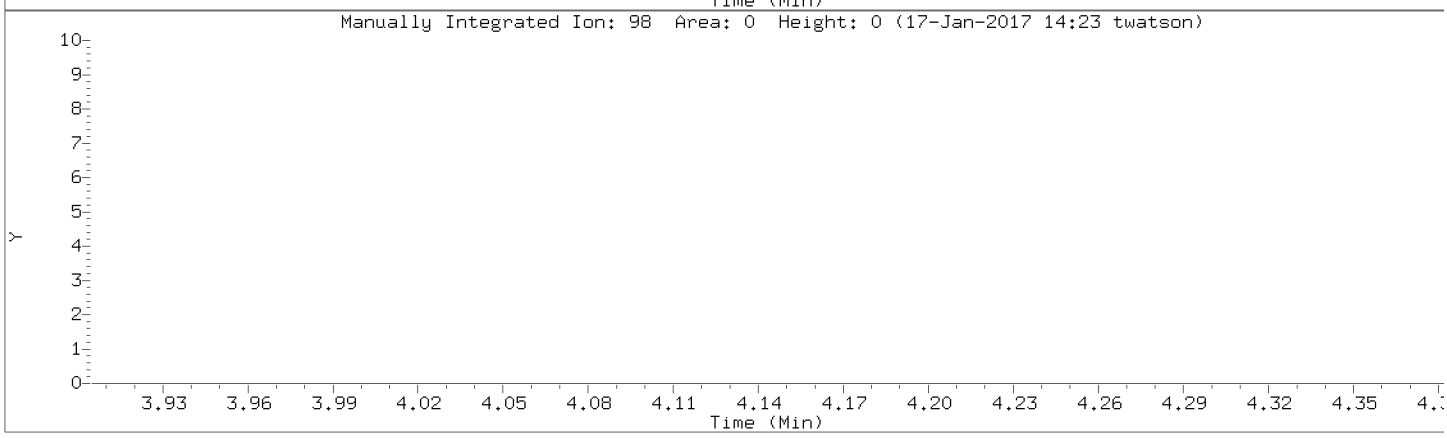
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0





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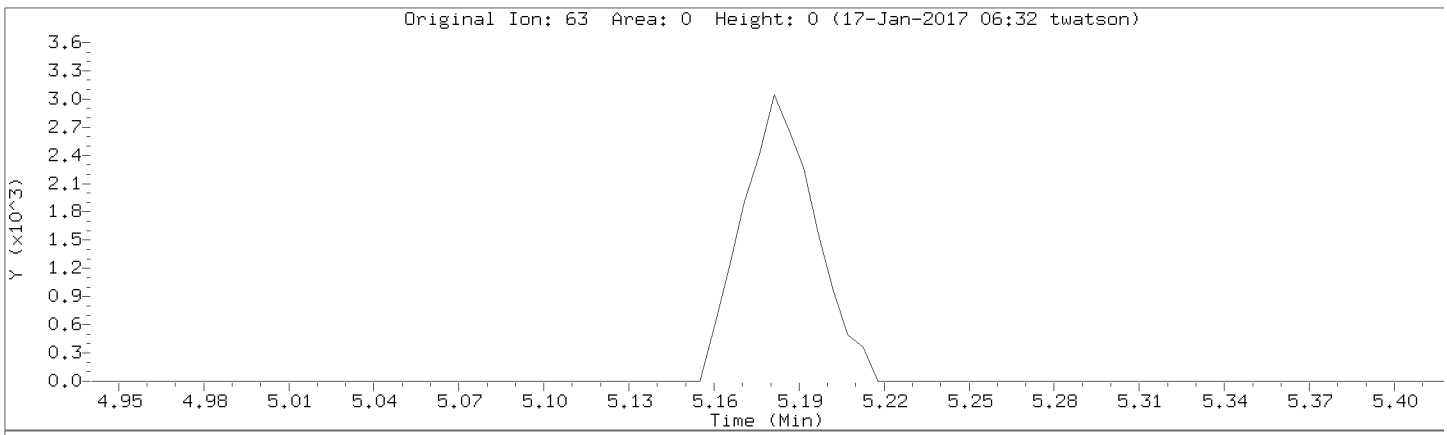
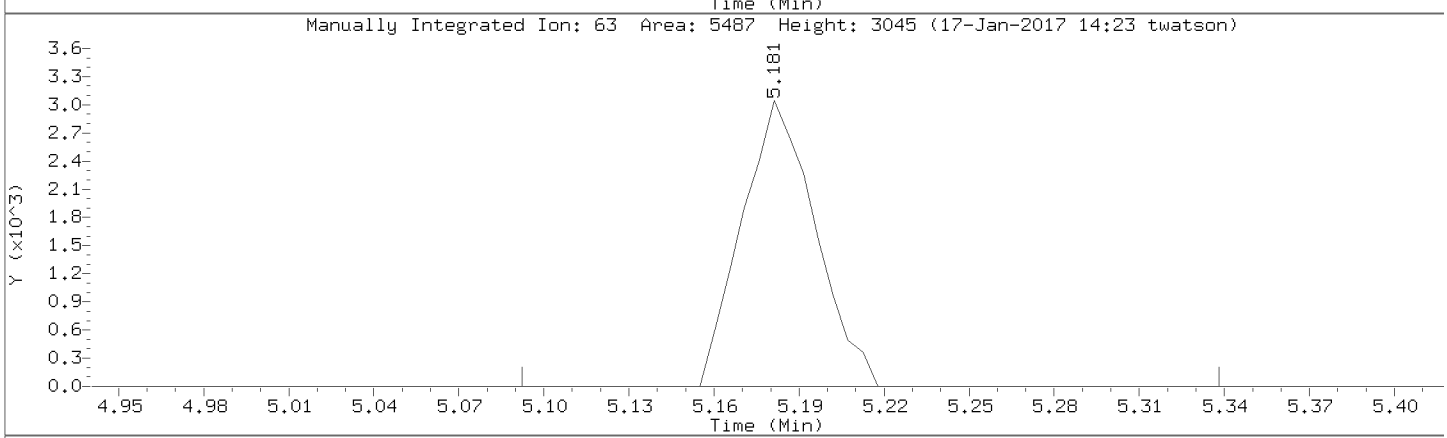
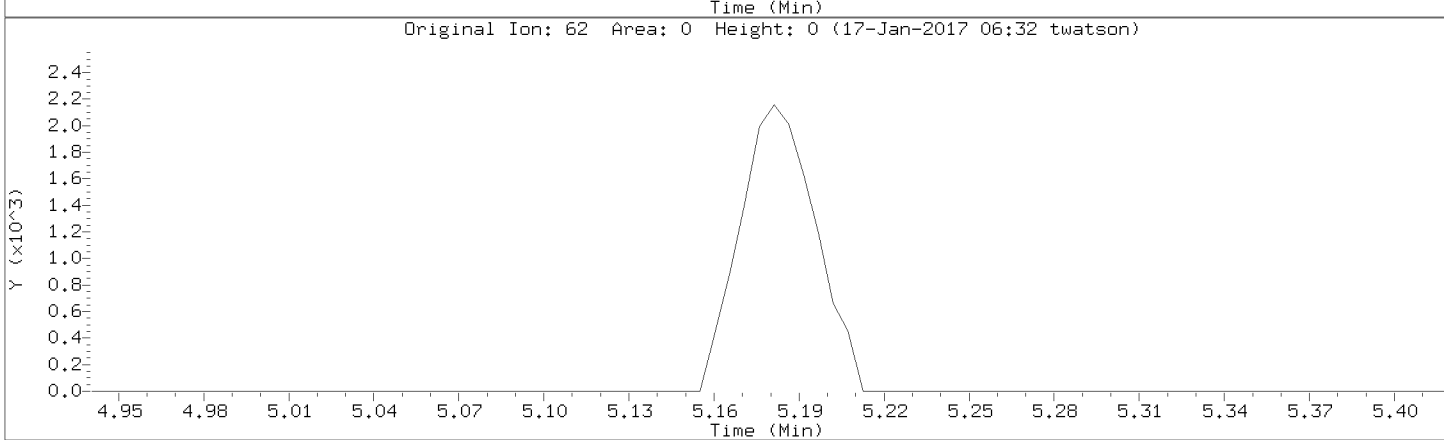
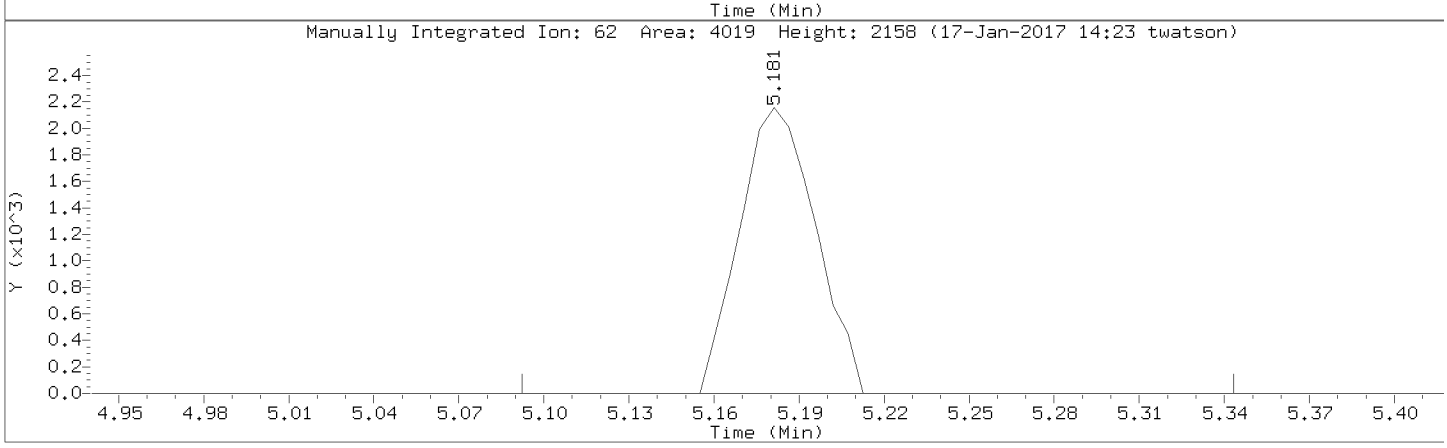
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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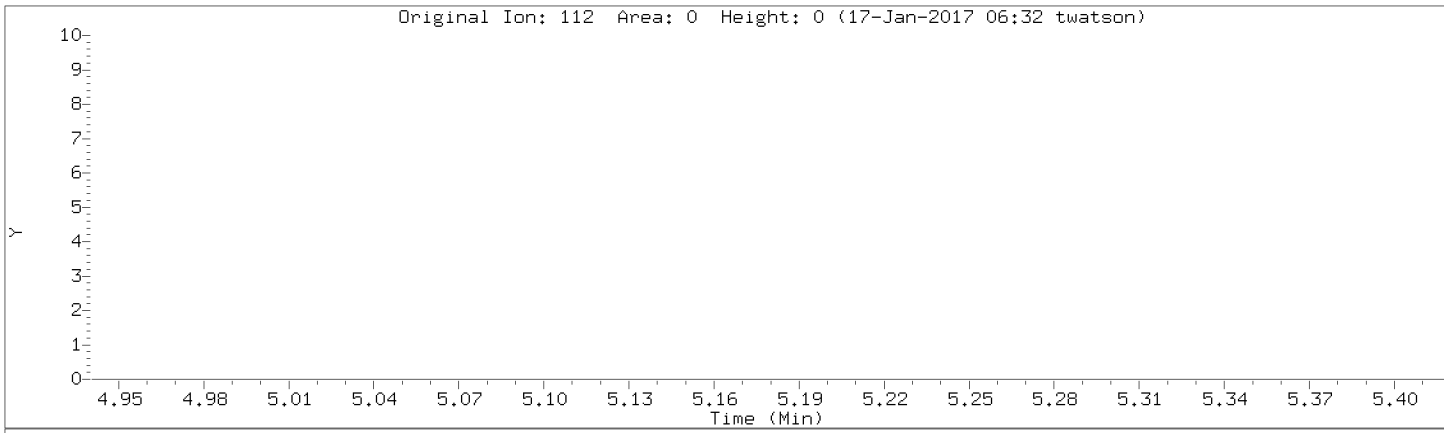
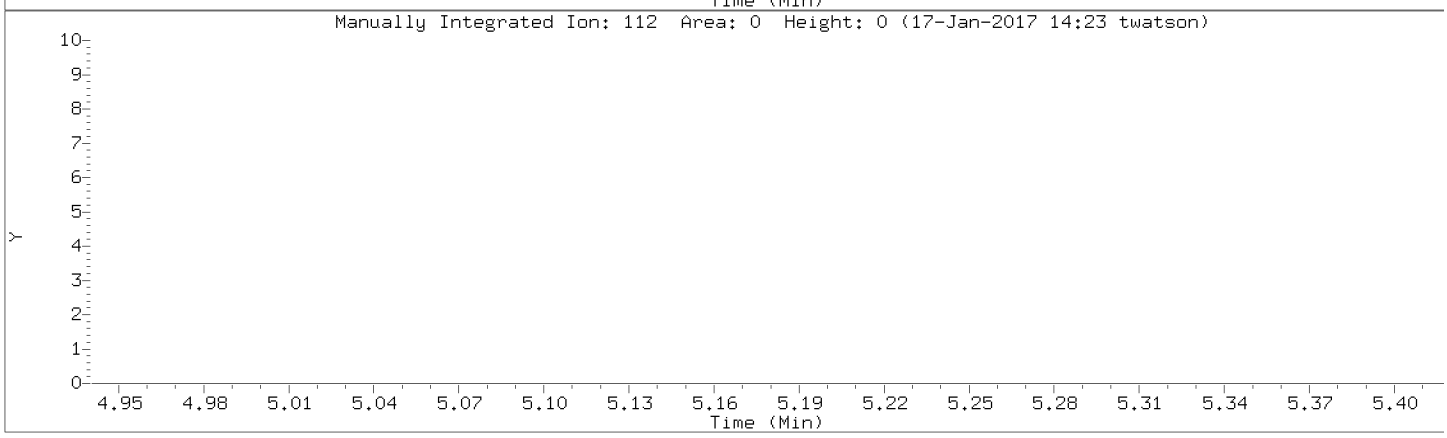
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0





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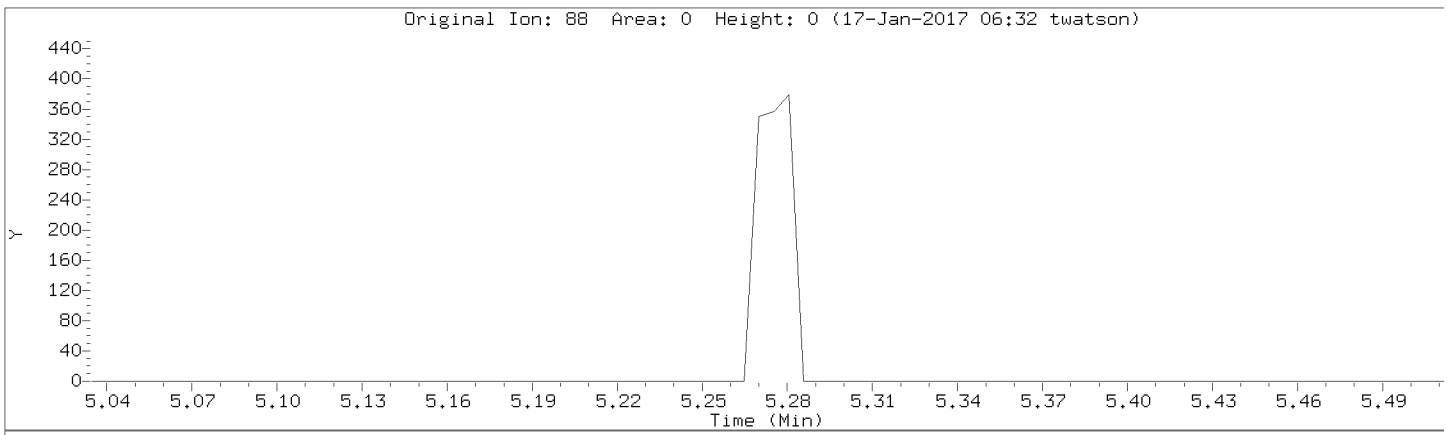
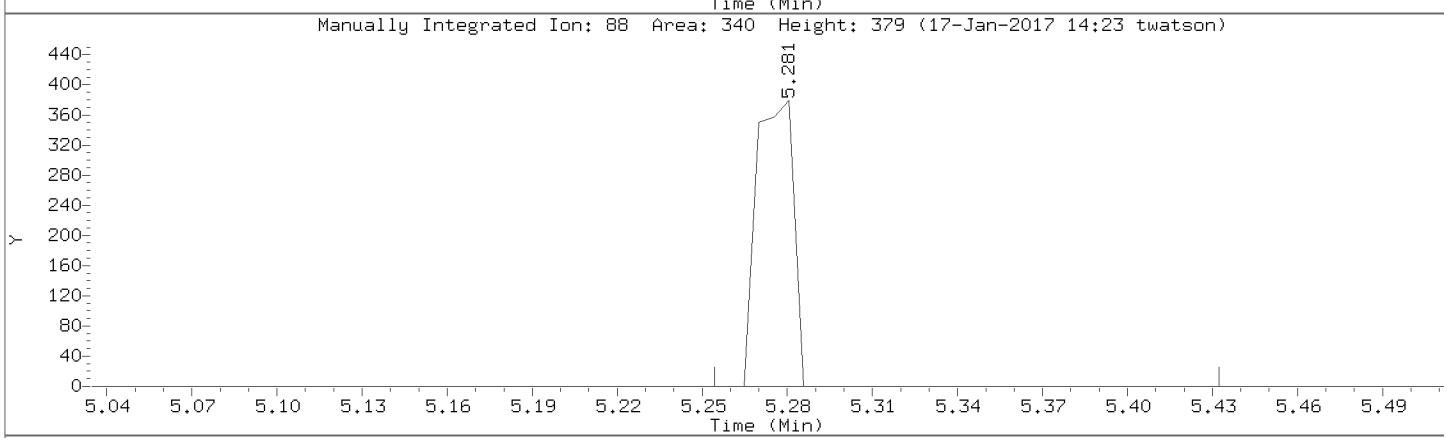
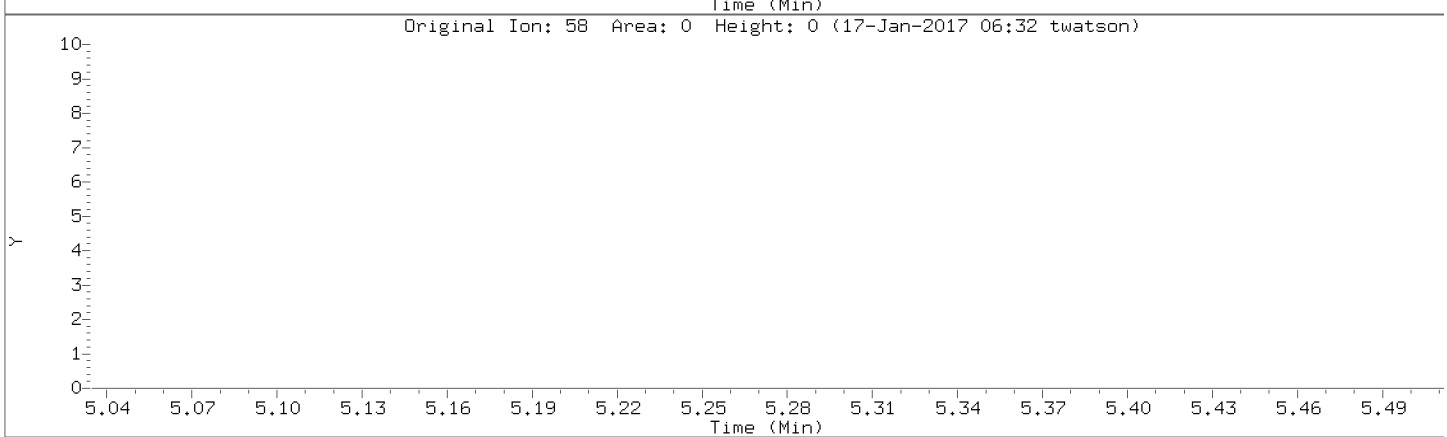
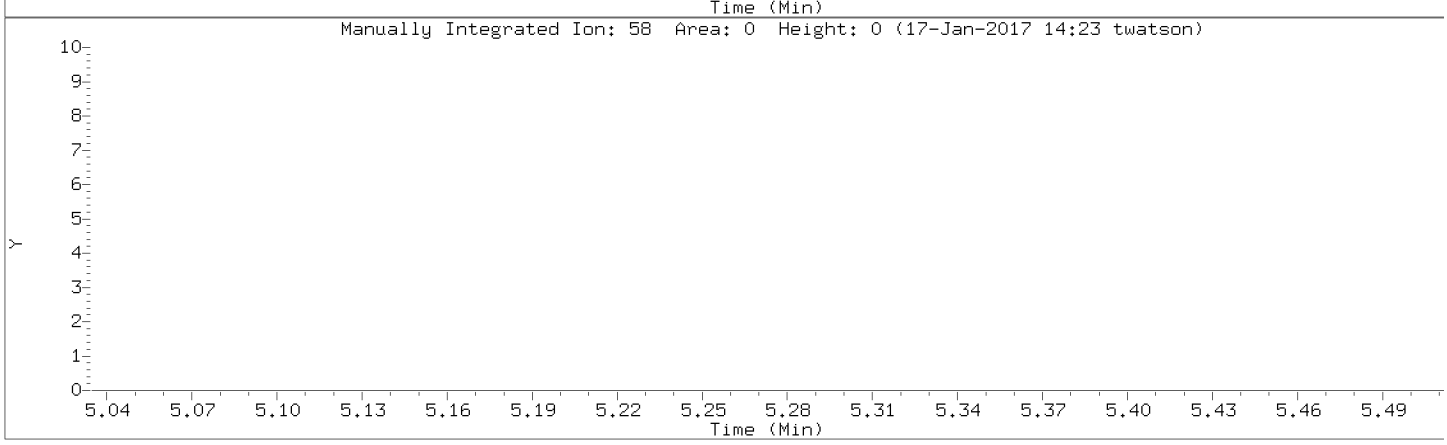
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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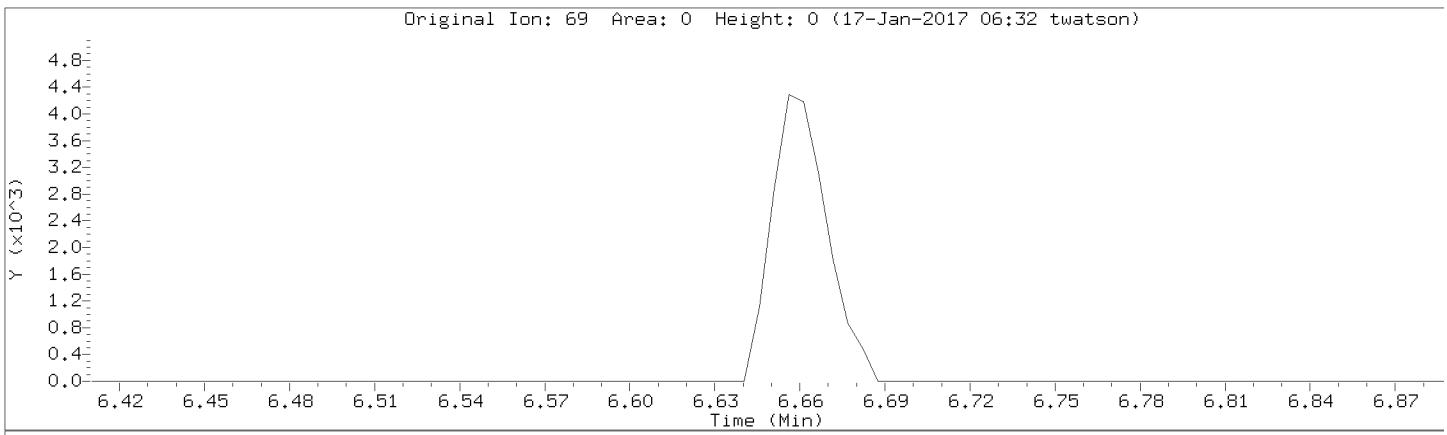
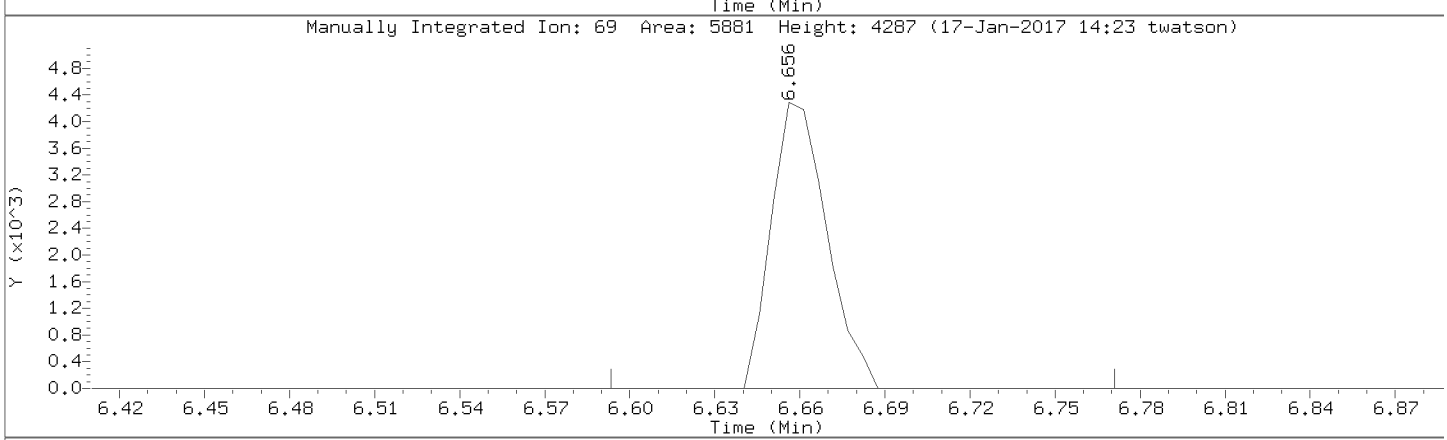
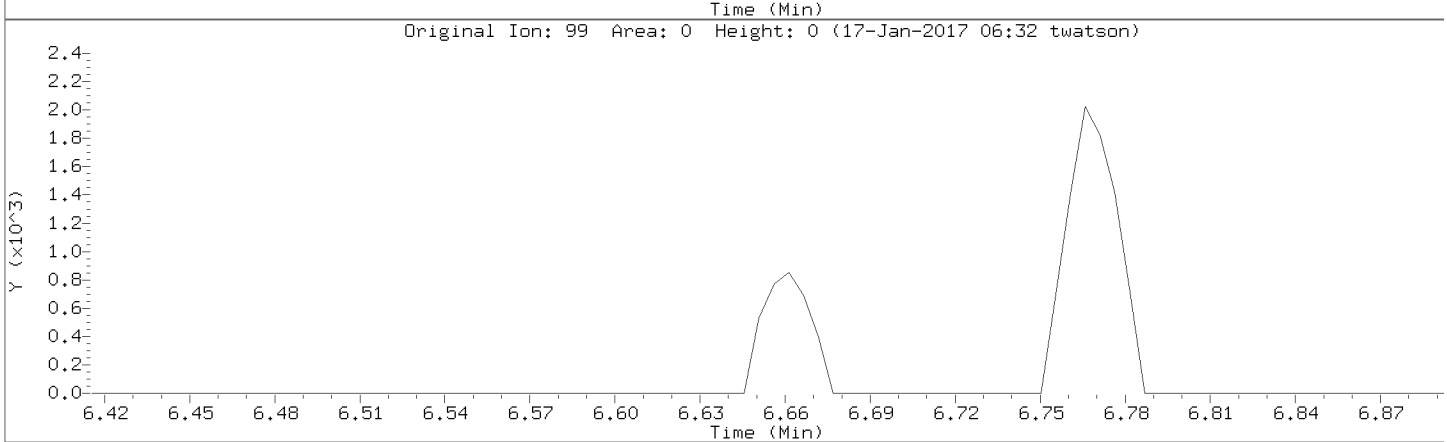
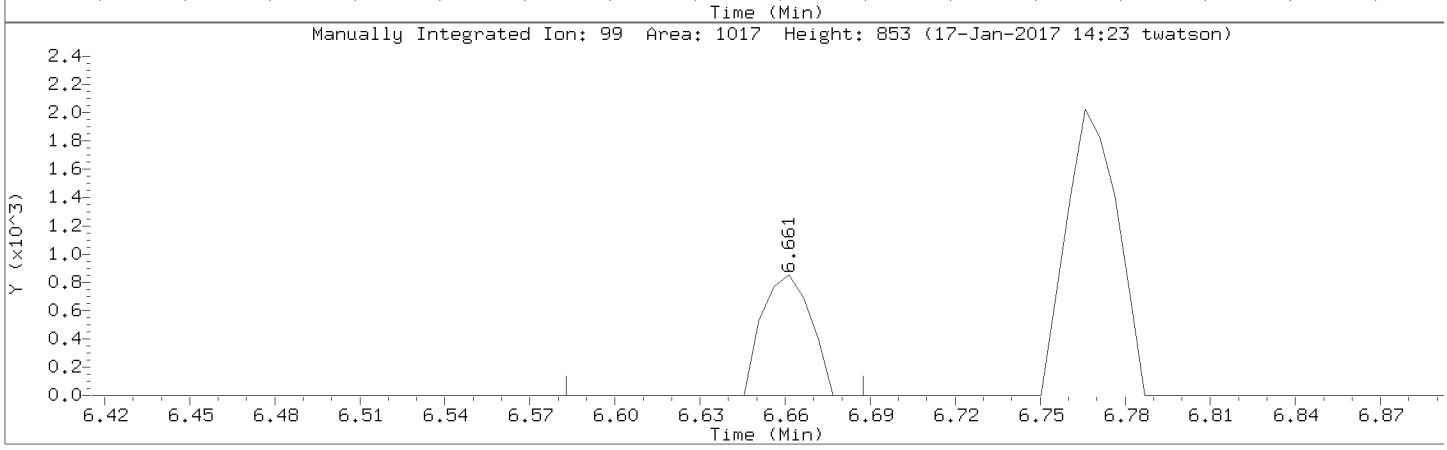
Injection Date: 16-JAN-2017 14:45
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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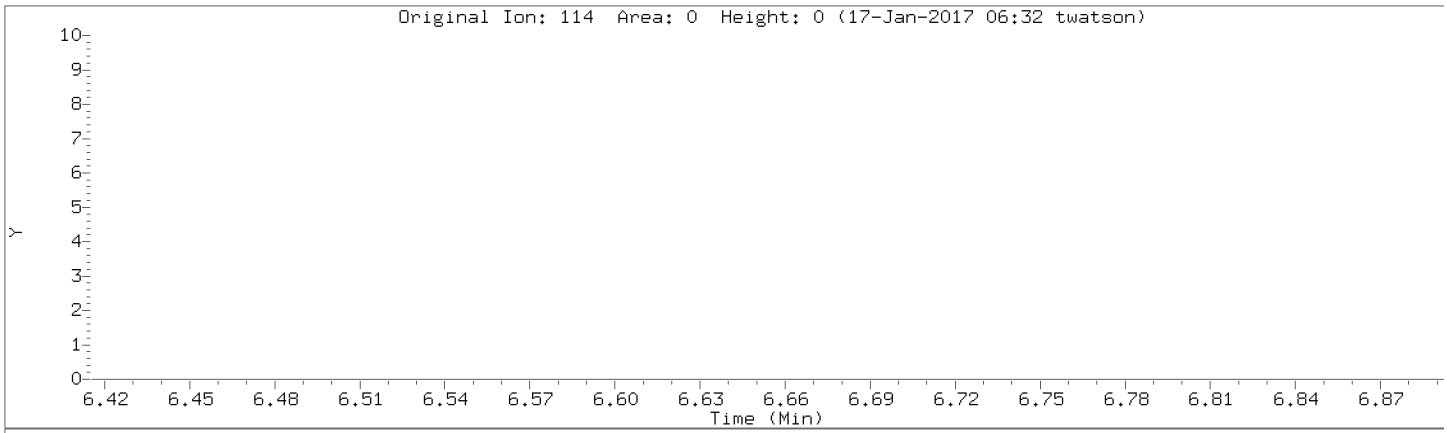
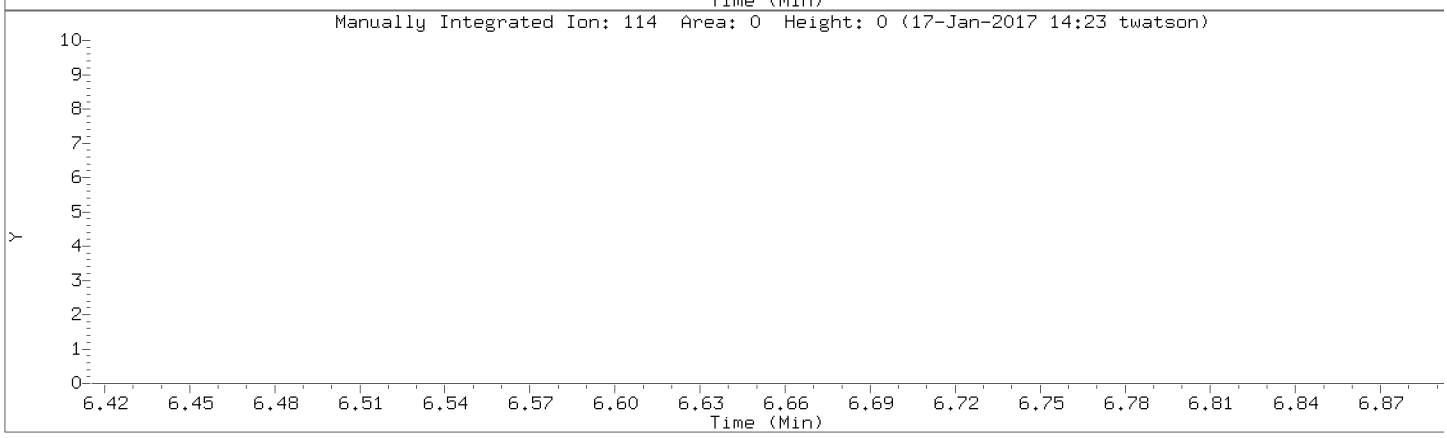
Lab Sample ID: 8260-CAL4,140017:0





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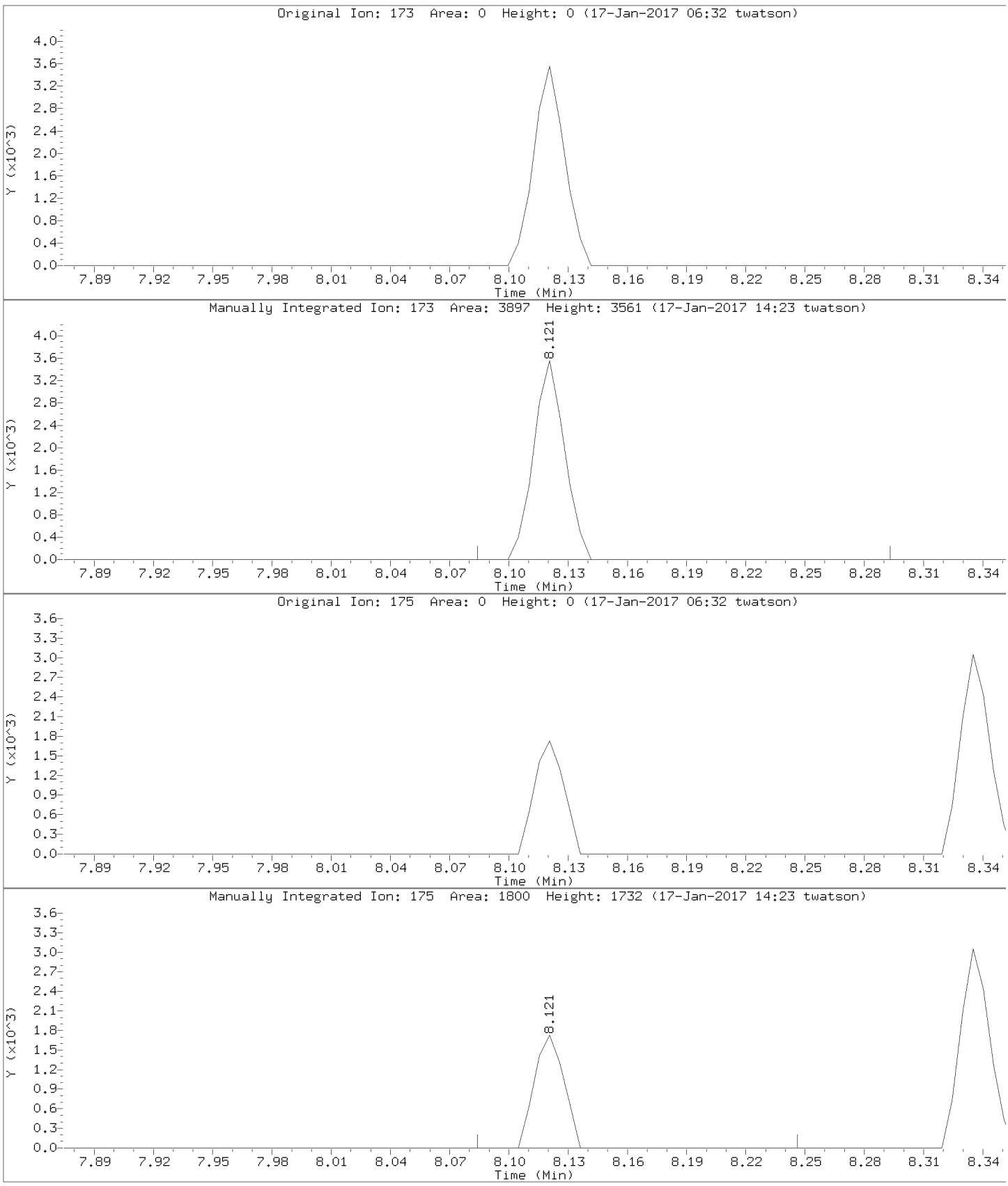
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL4,140017:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2



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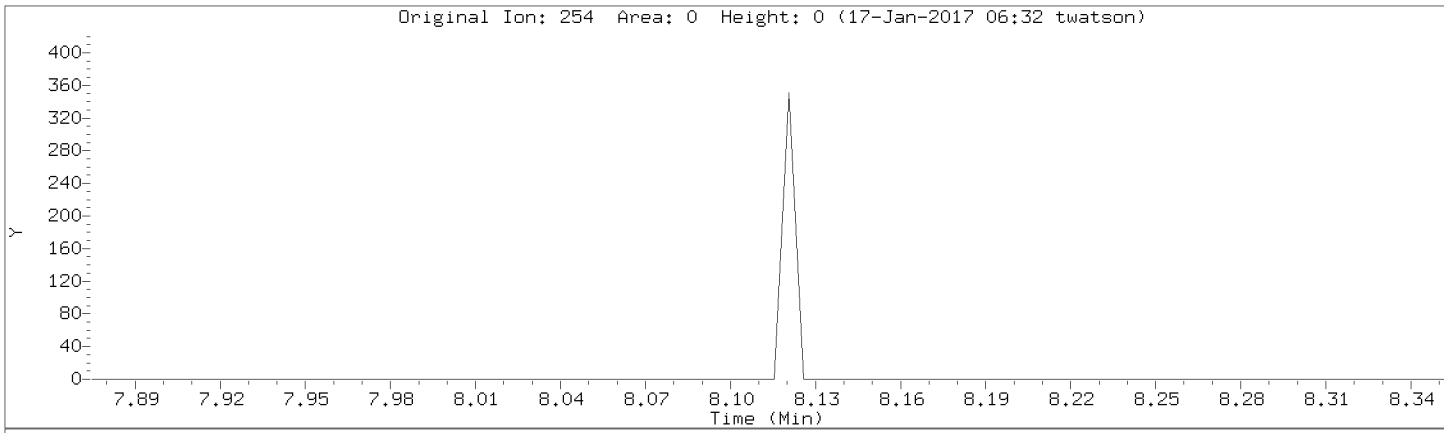

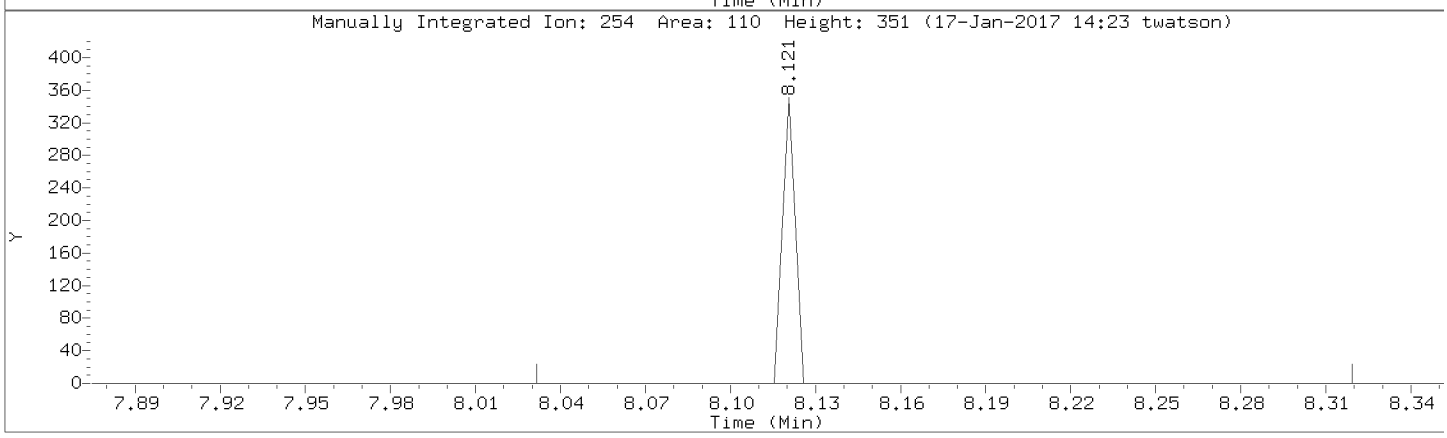

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Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a05cal5.d
Lab Smp Id: 8260-CAL5,140018:0 Client Smp ID: 8260-CAL5,140018:0
Inj Date : 16-JAN-2017 15:22
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal5,140018:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.023	1.023	(0.230)	11244	20.0000	20.4(M)	LT
2 Chloromethane	50	1.148	1.148	(0.258)	15685	20.0000	18.9(M)	LT
3 Vinyl Chloride	62	1.159	1.159	(0.261)	13785	20.0000	21.5	
4 Bromomethane	94	1.316	1.316	(0.296)	4672	20.0000	17.0	
5 Chloroethane	64	1.363	1.363	(0.306)	6005	20.0000	21.9(M)	LT
6 Trichlorofluoromethane	101	1.488	1.488	(0.335)	14752	20.0000	20.1	
7 Diethyl ether	74	1.619	1.619	(0.364)	5299	20.0000	21.4	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.368)	15325	20.0000	21.7	
9 Acrolein	56	1.697	1.697	(0.382)	23348	400.000	383	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.393)	14159	20.0000	22.9	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	11751	20.0000	22.3	
12 Acetone	43	1.765	1.771	(0.397)	18090	100.000	102	
13 Iodomethane	142	1.854	1.854	(0.417)	22767	40.0000	43.5	
14 Carbon Disulfide	76	1.907	1.907	(0.429)	42332	20.0000	22.4	
20 Methyl Acetate	43	1.943	1.948	(0.437)	9432	20.0000	18.4	
15 Acetonitrile	39	1.964	1.969	(0.442)	33047	20.0000	21.8	
16 allyl chloride	41	1.964	1.969	(0.442)	51897	40.0000	44.4	
17 Methylene Chloride	84	2.048	2.048	(0.460)	13281	20.0000	22.5	
18 tert-Butyl Alcohol	59	2.084	2.090	(0.469)	2450	40.0000	38.0(M)	NI
19 Acrylonitrile	53	2.184	2.189	(0.491)	18445	80.0000	82.6	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.498)	32561	20.0000	20.3	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a05cal5.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	12681	20.0000	22.1	
23 n-Hexane	57	2.424	2.430	(0.545)	24649	20.0000	21.9	
25 Vinyl Acetate	43	2.539	2.545	(0.571)	106449	80.0000	78.1	
26 1,1-Dichloroethane	63	2.560	2.560	(0.576)	26375	20.0000	22.0	
28 Chloroprene	53	2.613	2.623	(0.587)	23979	20.0000	22.5	
29 2-Butanone	43	3.036	3.047	(0.683)	24274	100.000	100	
30 1,2-Dichloroethene (cis)	96	3.068	3.073	(0.690)	13892	20.0000	21.8	
31 2,2-Dichloropropane	77	3.073	3.078	(0.691)	19395	20.0000	21.9	
27 Ethyl Acetate	88	3.083	3.094	(0.693)	3200	160.000	170	
32 Propionitrile	54	3.110	3.104	(0.699)	1470	20.0000	15.8	
38 Methacrylonitrile	41	3.261	3.266	(0.733)	8173	20.0000	21.4(M)	GT
33 Bromochloromethane	49	3.319	3.324	(0.746)	13205	20.0000	22.1	
34 Tetrahydrofuran	42	3.334	3.340	(0.750)	3667	20.0000	19.5	
35 Chloroform	83	3.434	3.444	(0.772)	23704	20.0000	20.9	
36 1,1,1-Trichloroethane	97	3.622	3.633	(0.814)	20740	20.0000	21.9	
$ 37 Dibromofluoromethane (S)	113	3.622	3.627	(0.814)	30367	50.0000	48.7	
39 Cyclohexane	56	3.711	3.727	(0.834)	27796	20.0000	22.2	
151 n-butyl chloride	56	3.784	3.789	(0.851)	32082	20.0000	22.1	
40 Carbon Tetrachloride	117	3.826	3.831	(0.860)	17871	20.0000	22.3	
41 1,1-Dichloropropene	75	3.826	3.831	(0.860)	19589	20.0000	22.5	
42 Benzene	78	4.067	4.077	(0.914)	54126	20.0000	20.6	
43 1,2-Dichloroethane	62	4.150	4.161	(0.933)	17619	20.0000	20.8	
24 Isobutyl alcohol	43	4.161	4.171	(0.935)	107249	20.0000	20.5(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.951)	61864	20.0000	21.9	
* 46 Fluorobenzene (IS)	96	4.448	4.454	(1.000)	124562	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.098)	14371	20.0000	21.6	
48 Methylcyclohexane	55	5.144	5.155	(1.156)	25297	20.0000	23.0	
49 1,2-Dichloropropane	63	5.181	5.191	(1.165)	15401	20.0000	21.2(M)	NI
51 1,4-Dioxane	88	5.275	5.285	(1.186)	1709	400.000	365	
50 Dibromomethane	93	5.280	5.285	(1.187)	7991	20.0000	21.1	
52 Methyl methacrylate	69	5.280	5.285	(1.187)	7754	20.0000	20.9	
53 Bromodichloromethane	83	5.495	5.500	(1.235)	19199	20.0000	21.2	
54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	16592	40.0000	44.8	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	23379	20.0000	21.5	
56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	74170	100.000	103	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	121597	50.0000	49.8	
58 Toluene	91	6.326	6.331	(0.841)	62121	20.0000	21.3	
59 trans-1,3-Dichloropropene	75	6.593	6.598	(0.876)	20051	20.0000	21.5	
60 Ethyl Methacrylate	69	6.661	6.661	(0.885)	15572	20.0000	20.8	
61 1,1,2-Trichloroethane	83	6.765	6.776	(0.899)	9943	20.0000	21.2	
62 Tetrachloroethene	166	6.823	6.828	(0.907)	17331	20.0000	22.2	
63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	19830	20.0000	20.6	
64 2-Hexanone	43	6.954	6.959	(0.924)	53952	100.000	102	
65 Dibromochloromethane	129	7.085	7.090	(0.942)	14405	20.0000	21.0	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	12256	20.0000	21.4	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	100610	50.0000		
68 Chlorobenzene	112	7.550	7.555	(1.003)	42086	20.0000	21.2	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	15047	20.0000	20.8	
70 Ethylbenzene	106	7.623	7.628	(1.013)	22161	20.0000	20.0	
71 m&p-Xylene	106	7.723	7.728	(1.026)	56593	40.0000	43.3	
72 o-Xylene	106	7.979	7.984	(1.060)	27617	20.0000	20.2	
73 Styrene	104	7.995	8.000	(1.063)	48218	20.0000	20.3	
74 Bromoform	173	8.120	8.125	(0.901)	10225	20.0000	21.5	
75 Isopropylbenzene	105	8.219	8.225	(1.092)	76300	20.0000	20.4	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a05cal5.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	51144	50.0000	49.9	
77 Bromobenzene	77	8.413	8.418	(1.118)	30119	20.0000	20.3	
78 1,1,2,2-Tetrachloroethane	83	8.418	8.423	(0.934)	16876	20.0000	20.6	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	5016	20.0000	21.1	
80 1,2,3-Trichloropropane	110	8.450	8.455	(0.938)	4229	20.0000	21.3	
81 n-Propylbenzene	91	8.476	8.481	(0.941)	94168	20.0000	21.8	
82 2-Chlorotoluene	91	8.528	8.538	(0.947)	54933	20.0000	21.6	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	65439	20.0000	21.3	
84 4-Chlorotoluene	126	8.607	8.612	(0.955)	18541	20.0000	20.9	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	57593	20.0000	21.5	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	66783	20.0000	20.8	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	88230	20.0000	20.6	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	37000	20.0000	21.2	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	73595	20.0000	21.6	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	58342	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	38053	20.0000	21.4	
92 n-Butylbenzene	91	9.198	9.203	(1.021)	73384	20.0000	22.0	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	35155	20.0000	20.6	
94 1,2-Dibromo-3-chloropropane	155	9.626	9.632	(1.068)	3004	20.0000	20.1	
95 1,2,4-Trichlorobenzene	180	10.045	10.050	(1.115)	27252	20.0000	20.3	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	16505	20.0000	20.5	
97 Naphthalene	128	10.191	10.196	(1.131)	57994	20.0000	19.2	
98 1,2,3-Trichlorobenzene	180	10.312	10.317	(1.145)	25733	20.0000	19.3	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	25996	20.0000	18.9	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	23281	20.0000	18.8	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

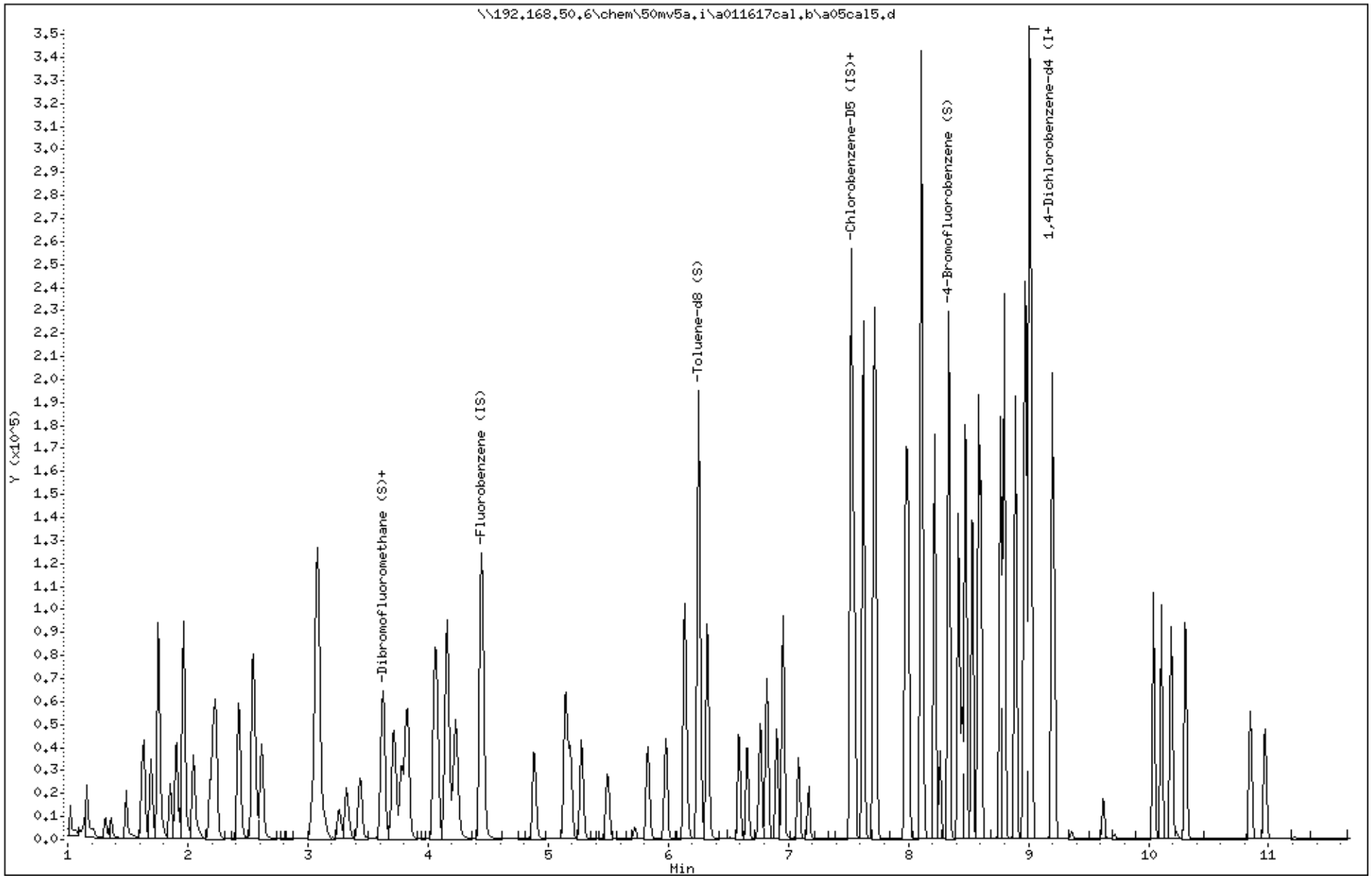
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a05cal5.d
Date : 16-JAN-2017 15:22
Client ID: 8260-CAL5,140018:0
Sample Info: 8260-CAL5,140018:0

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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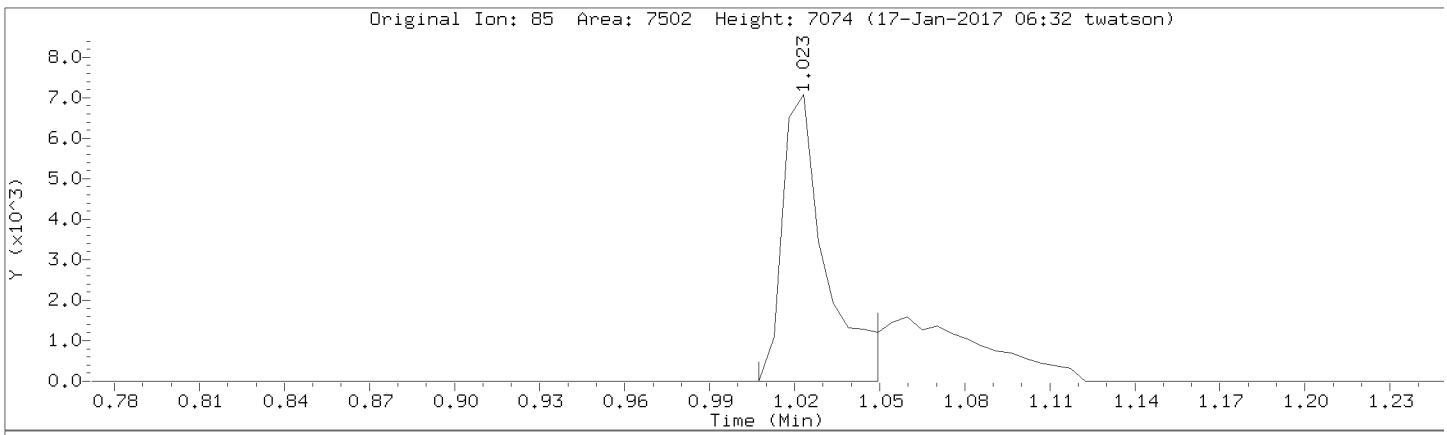
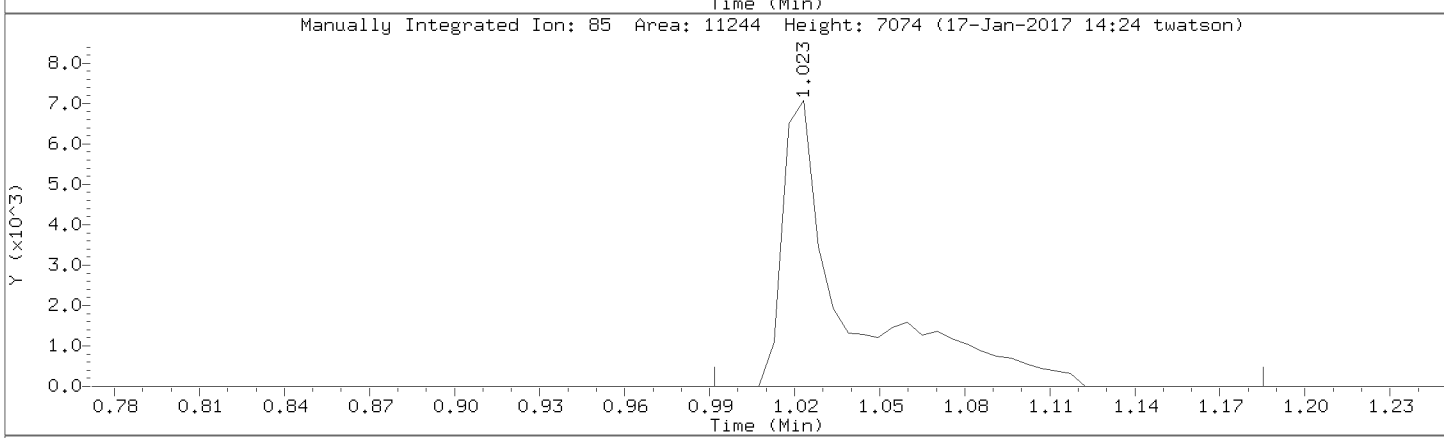
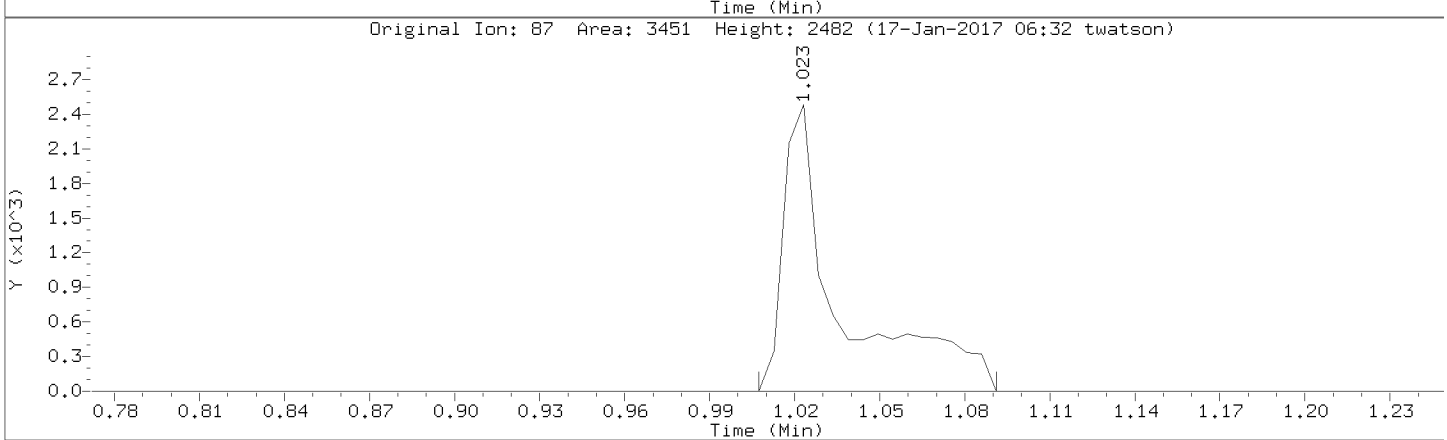
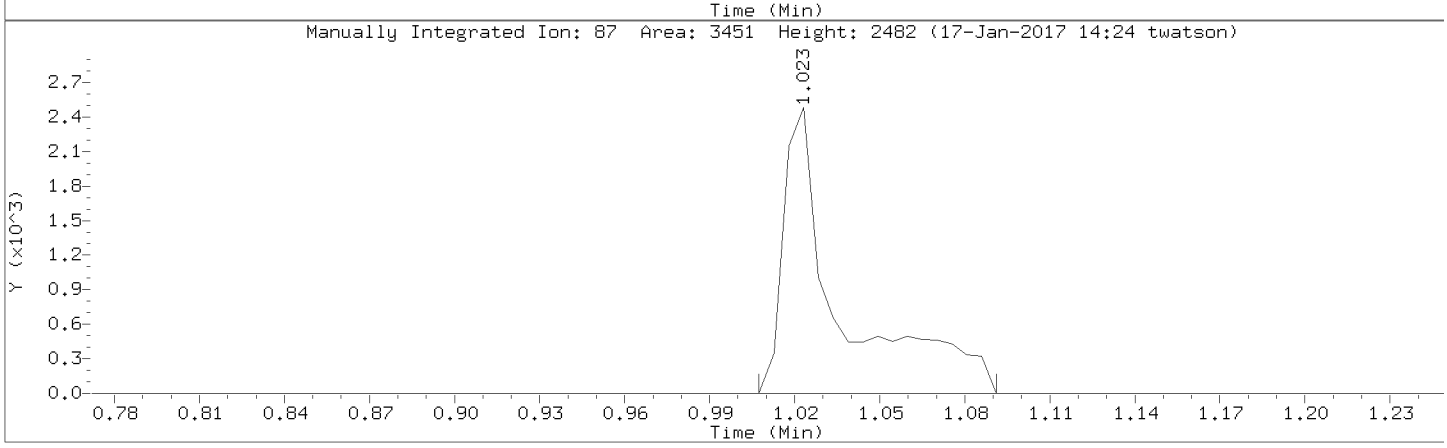
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: Dichlorodifluoromethane Review Code: LT
CAS Number: 75-71-8









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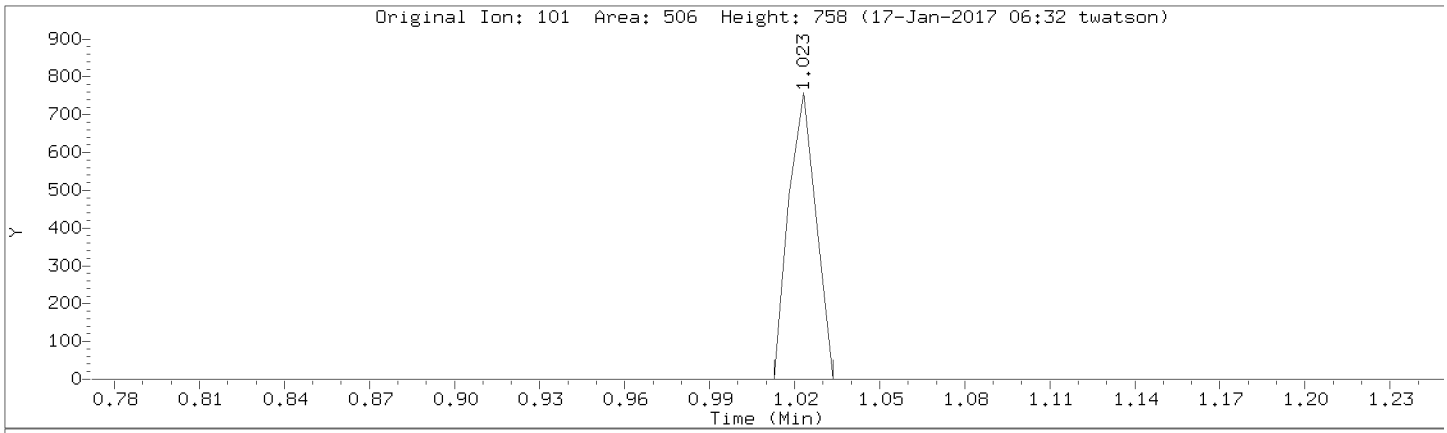
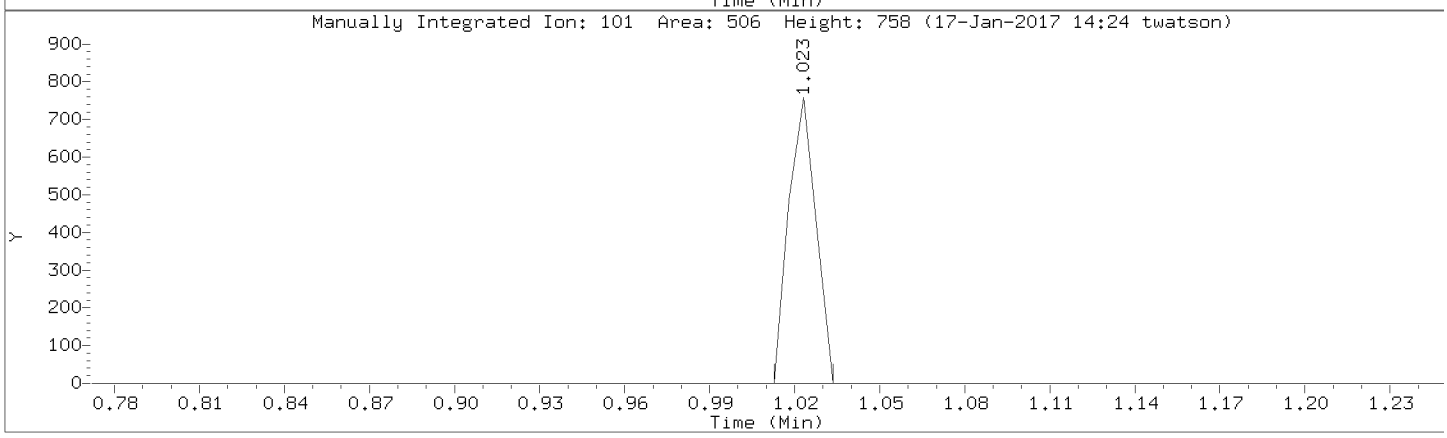
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0





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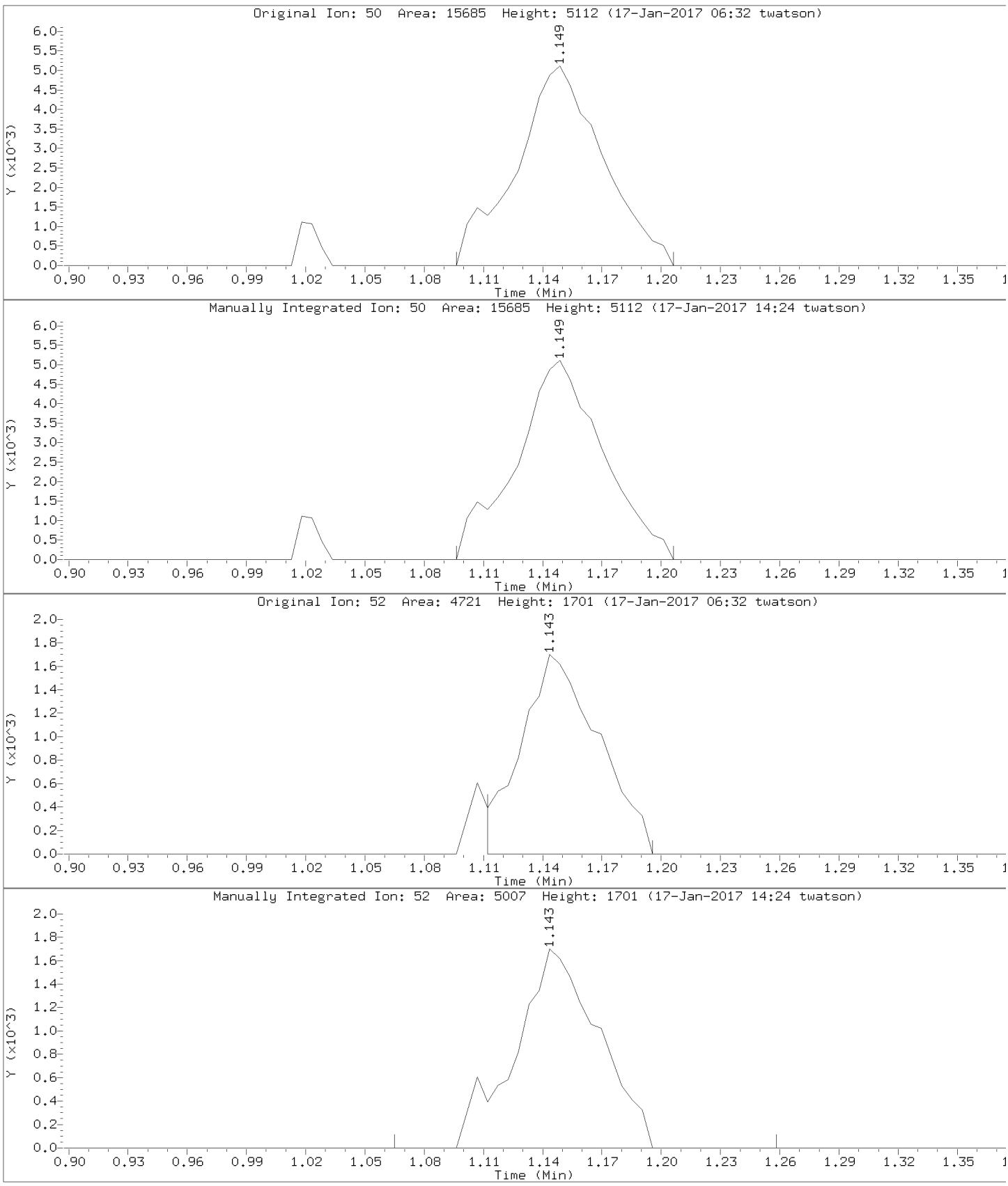
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: Chloromethane Review Code: LT
CAS Number: 74-87-3



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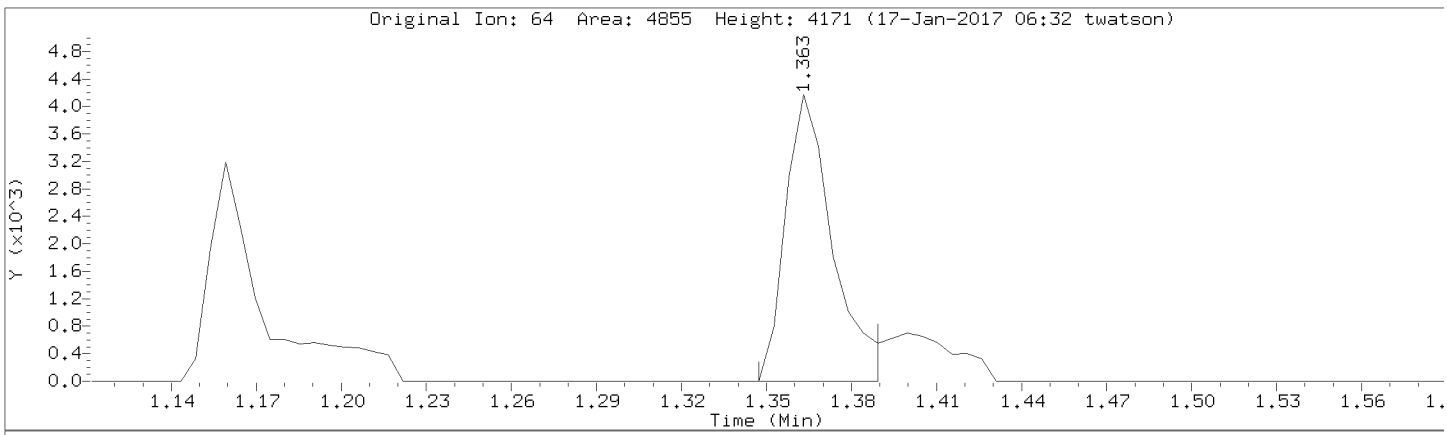
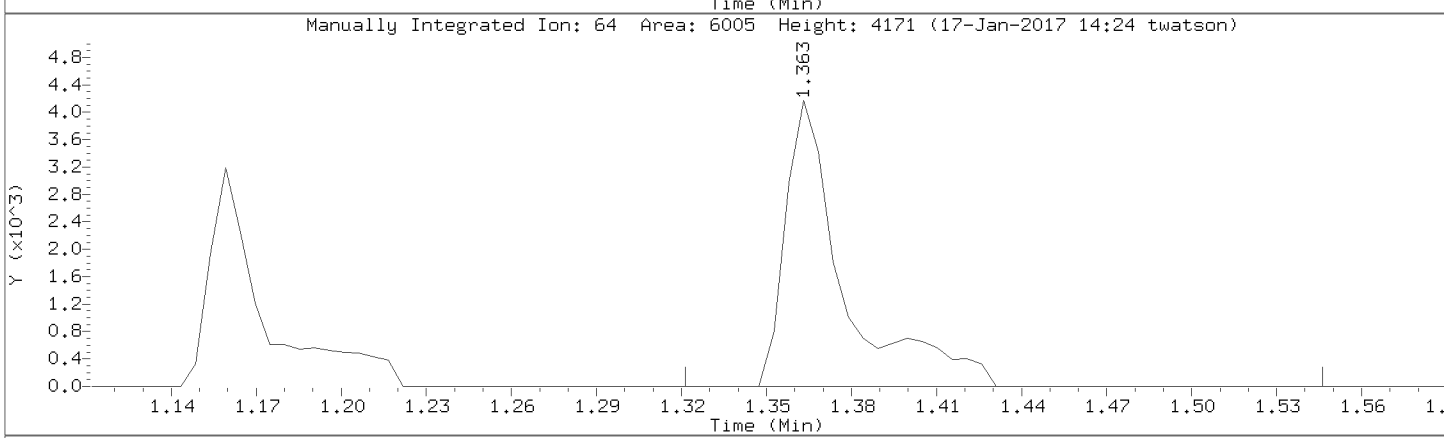
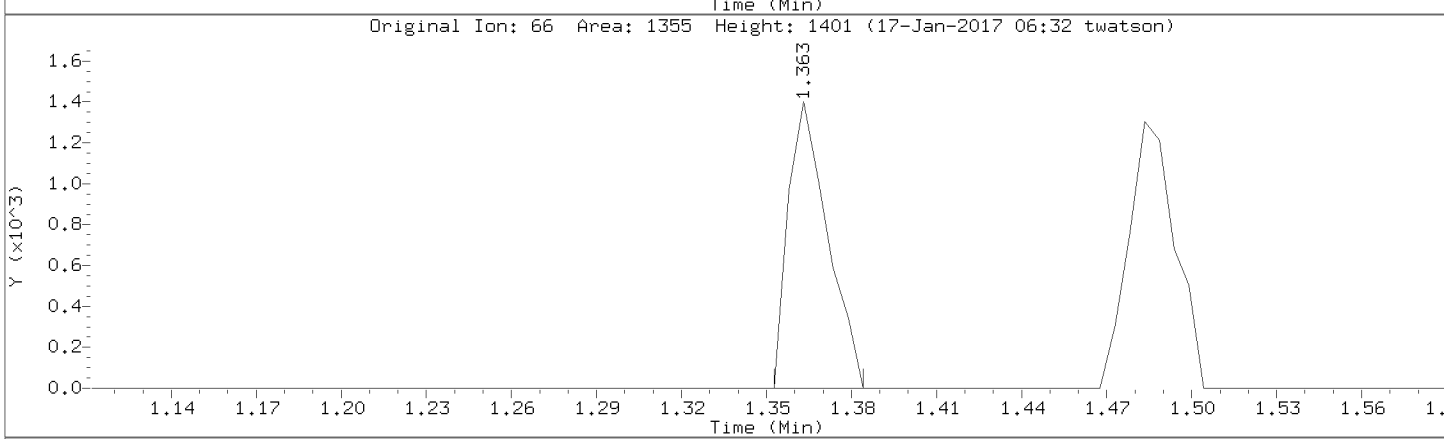
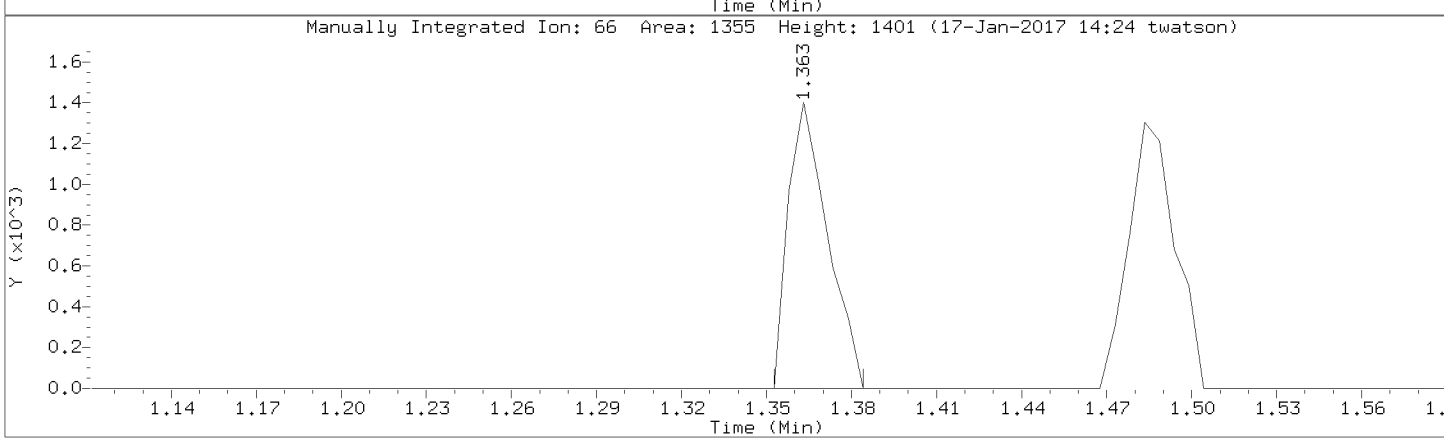
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: Chloroethane Review Code: LT
CAS Number: 75-00-3









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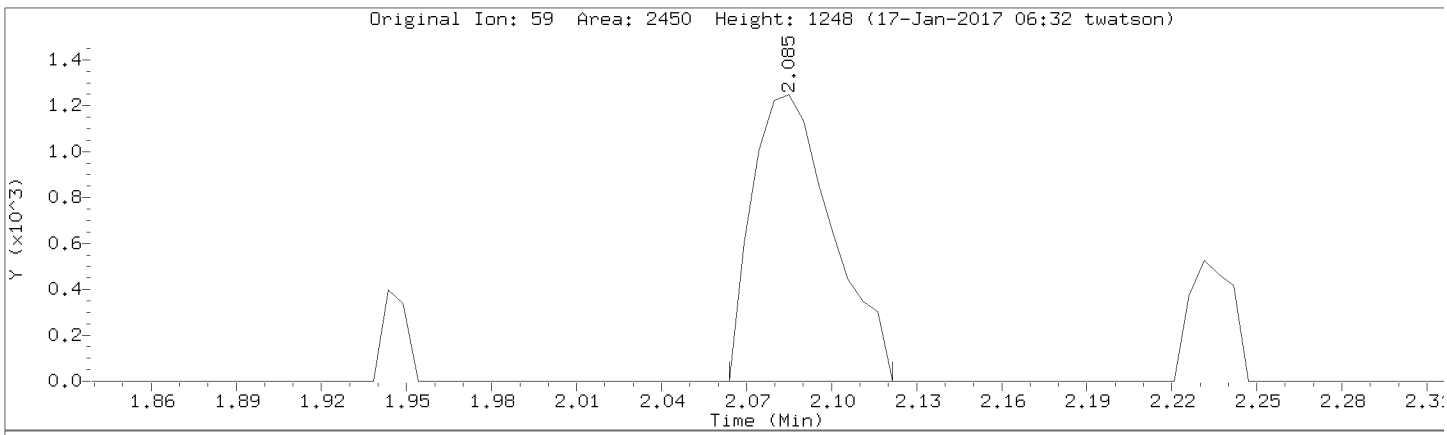
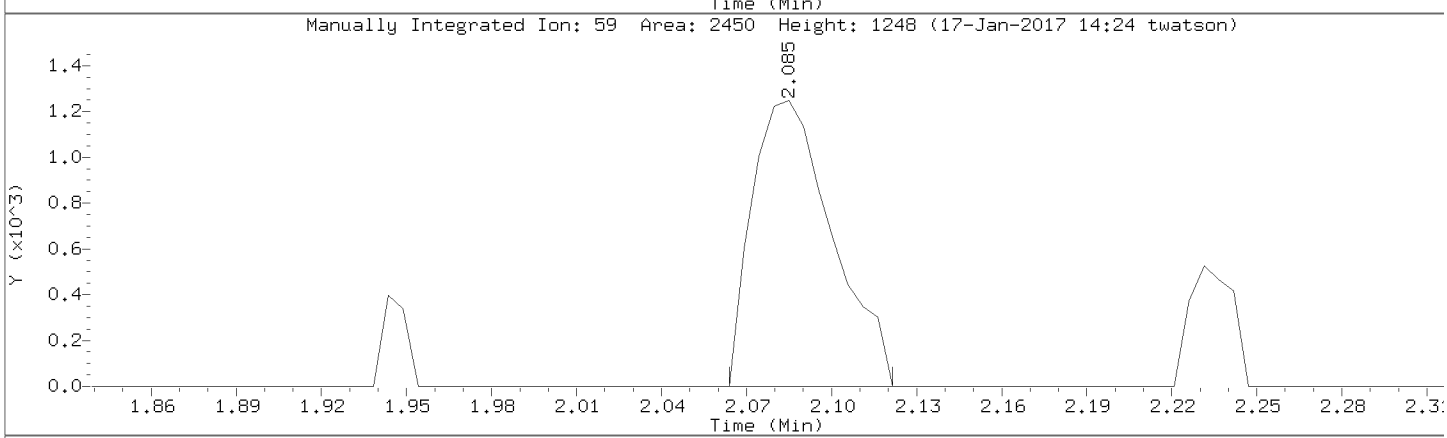
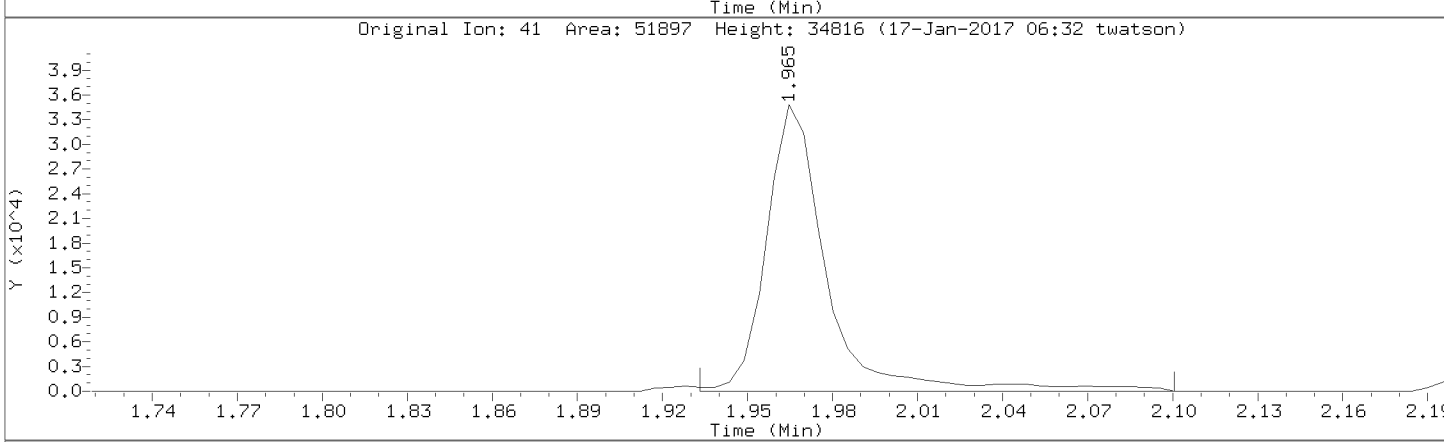
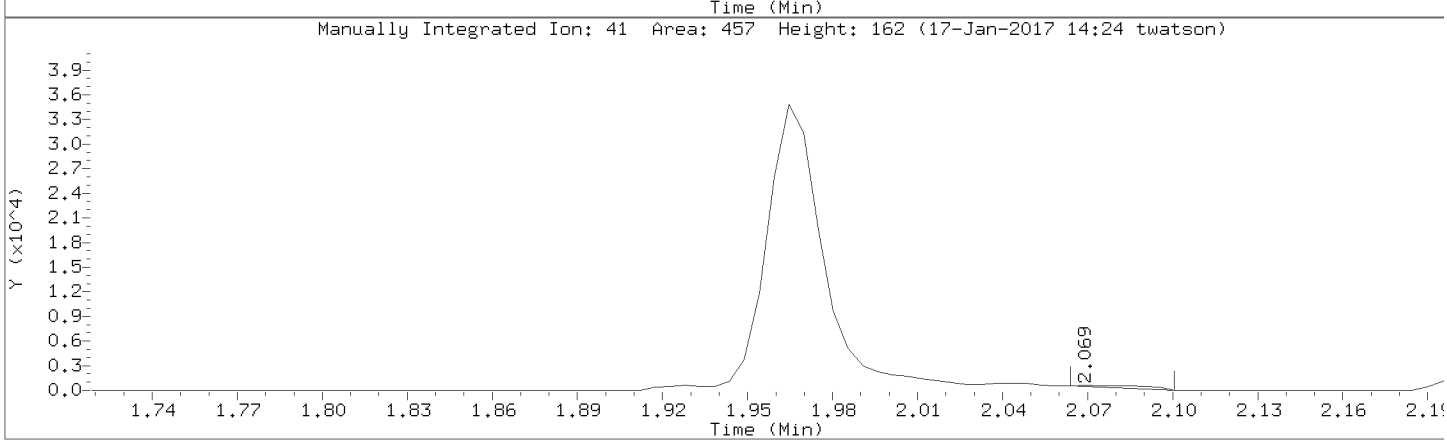
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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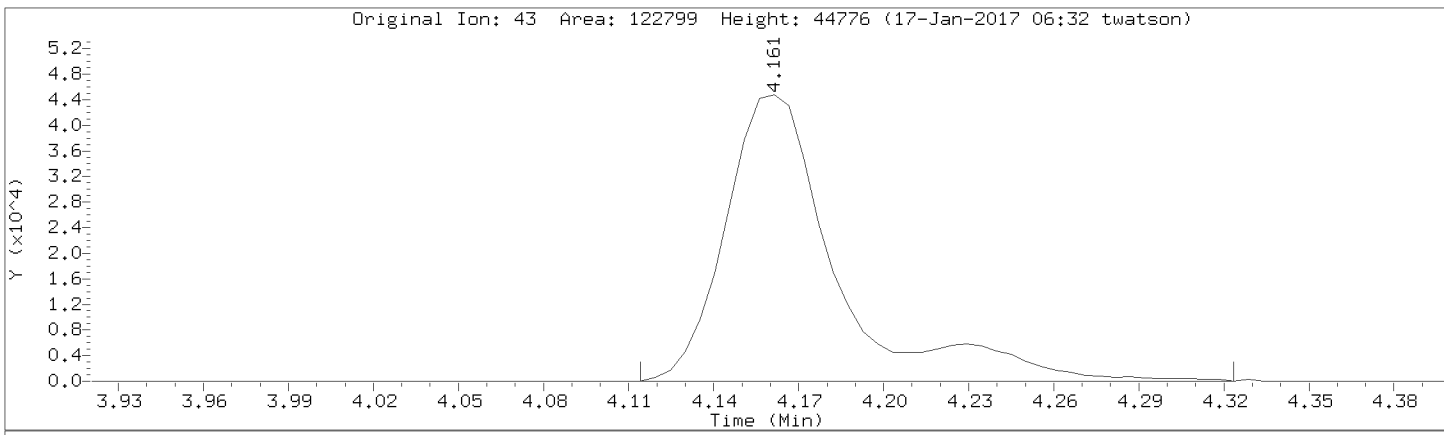
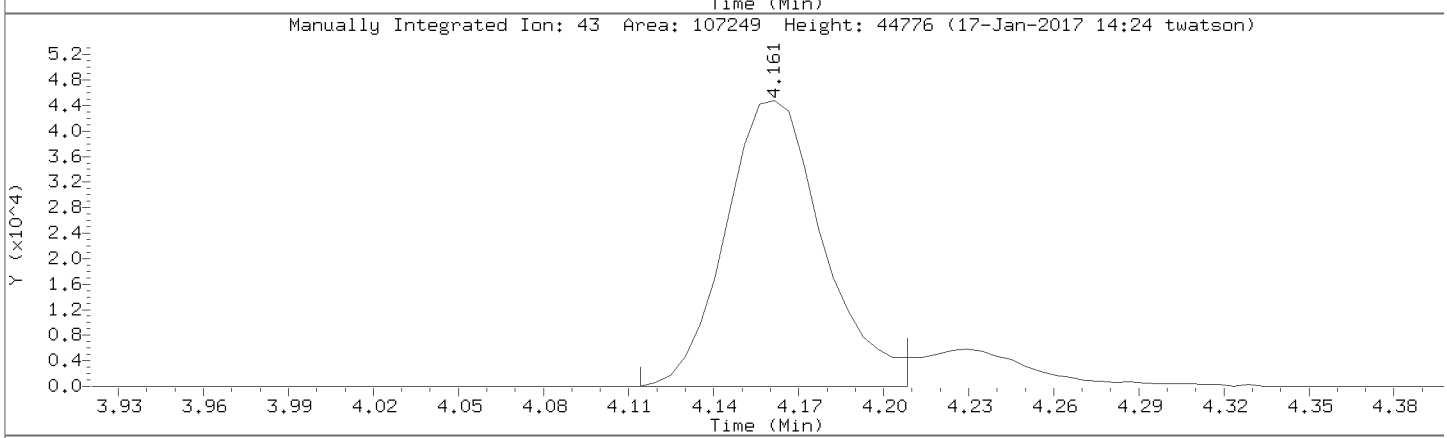
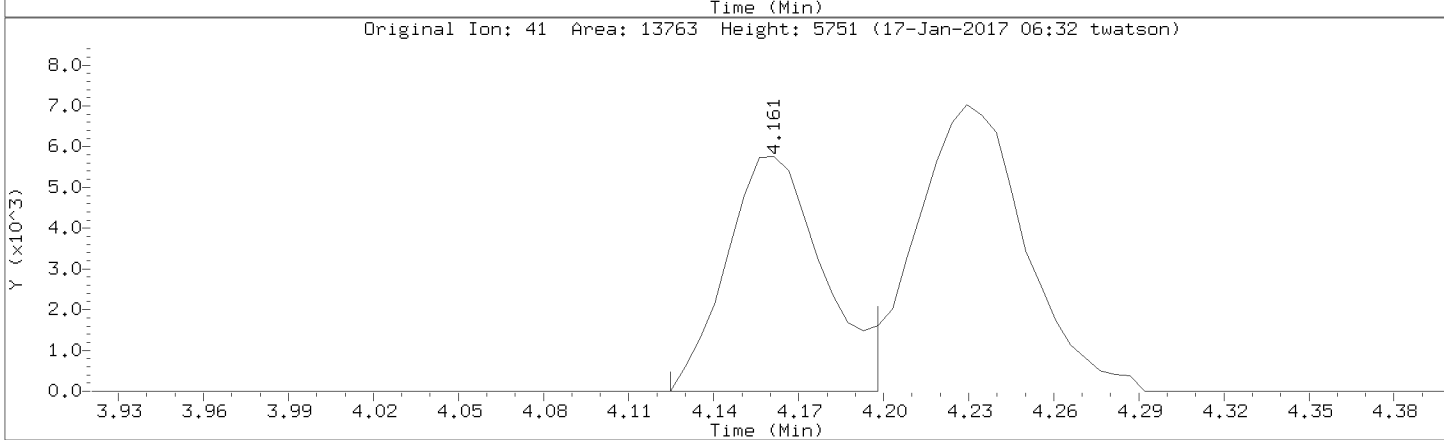
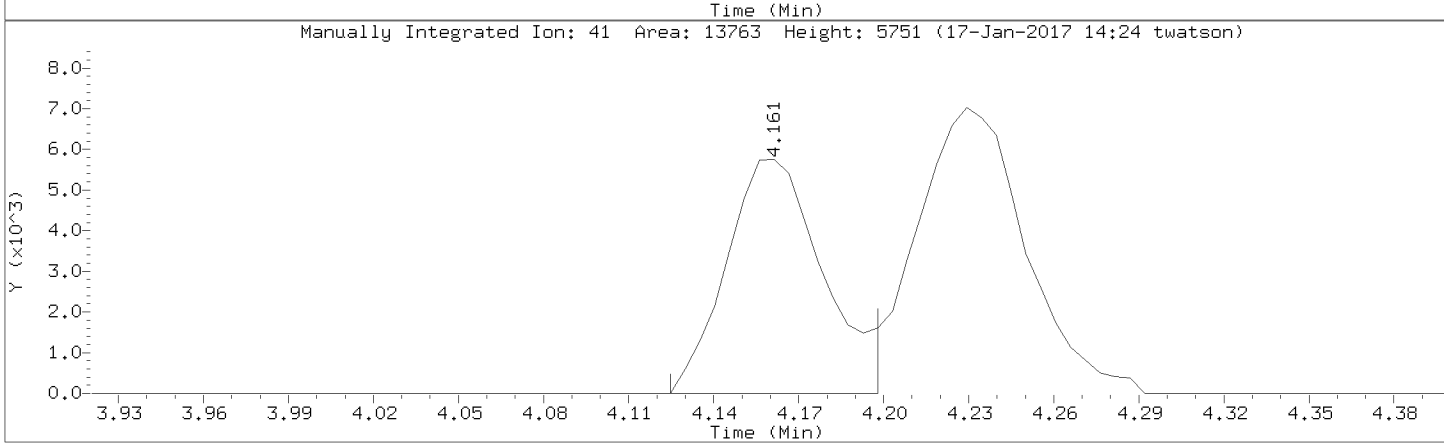
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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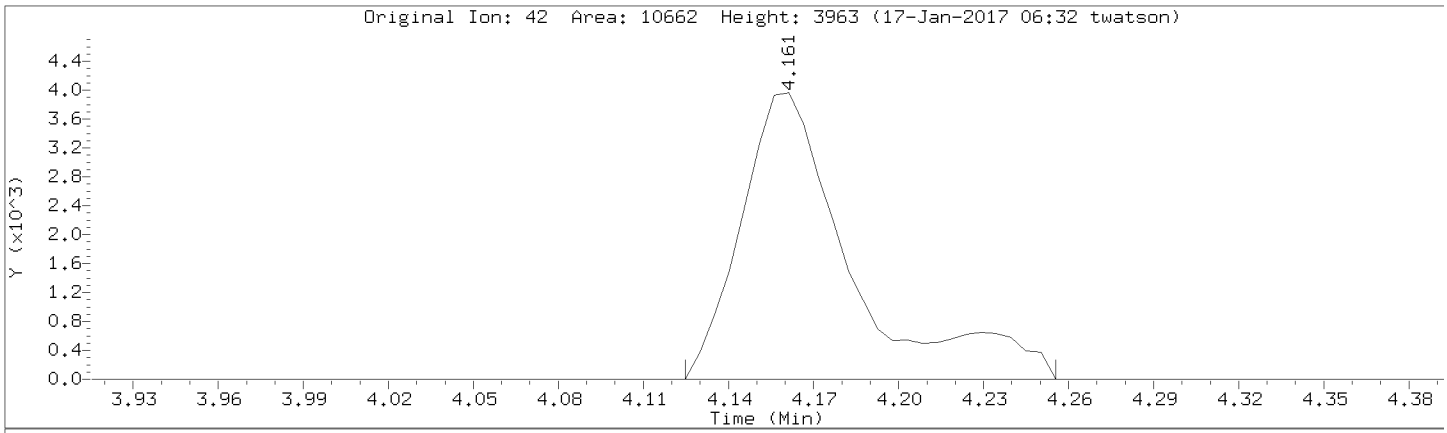
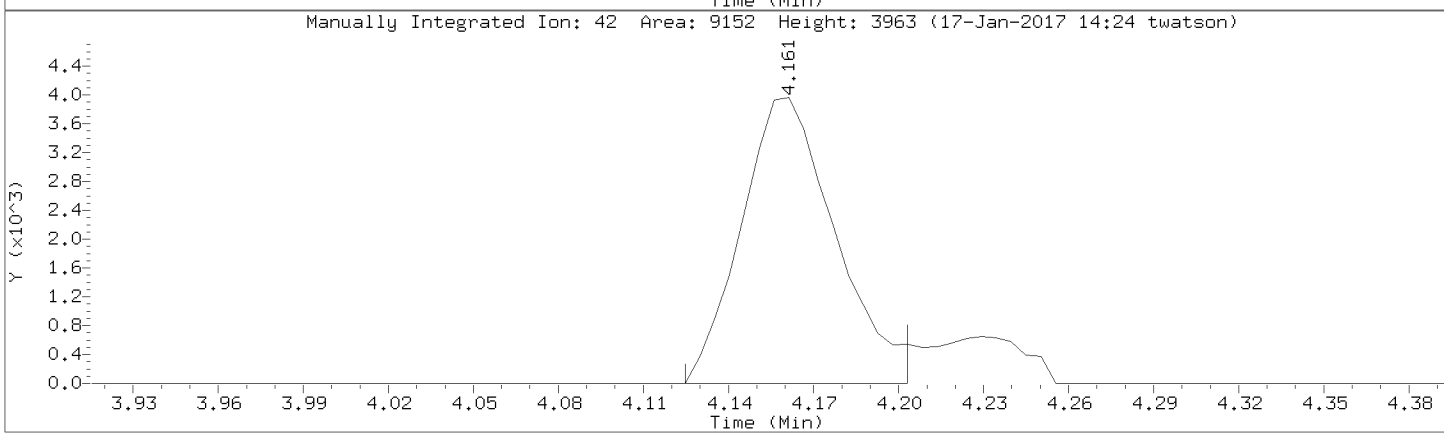
Lab Sample ID: 8260-CAL5,140018:0





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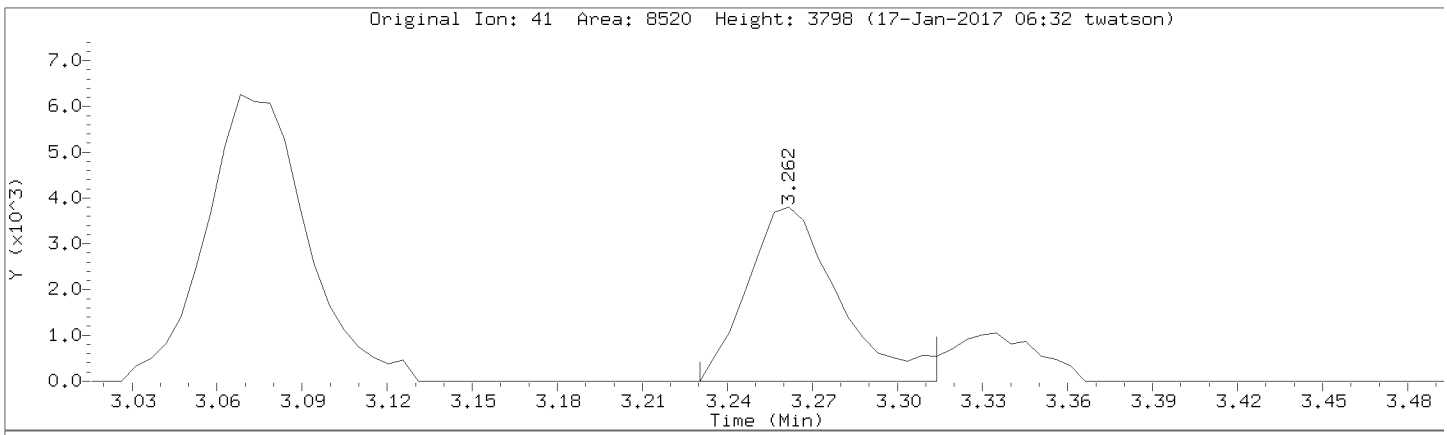
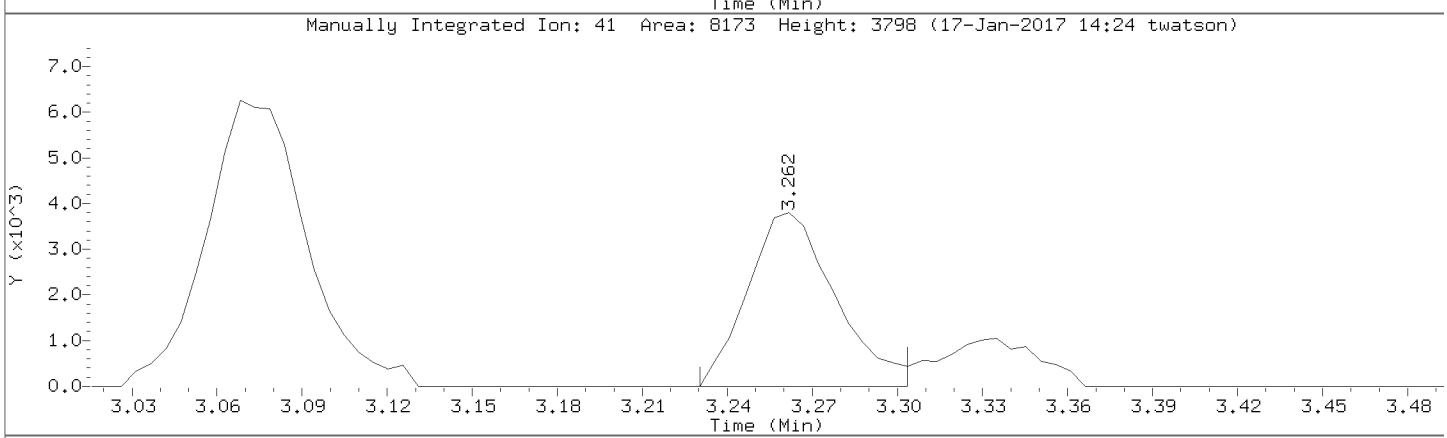
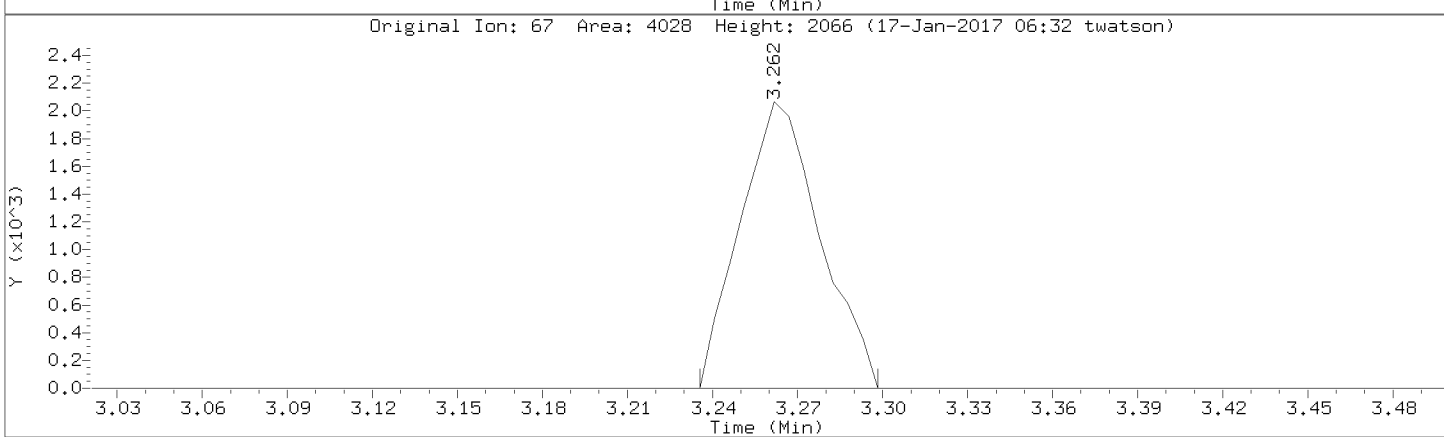
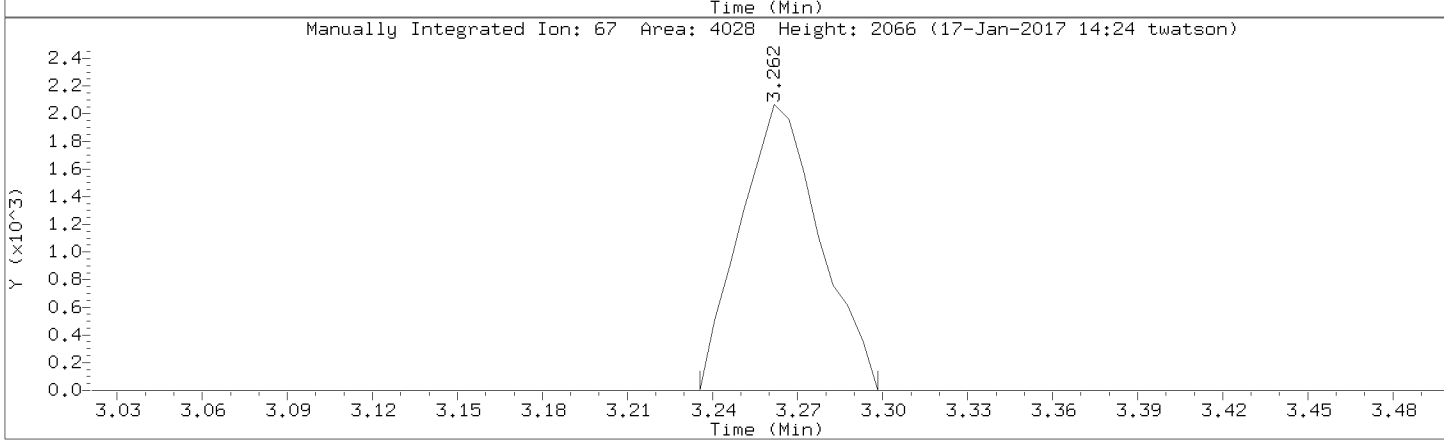
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7









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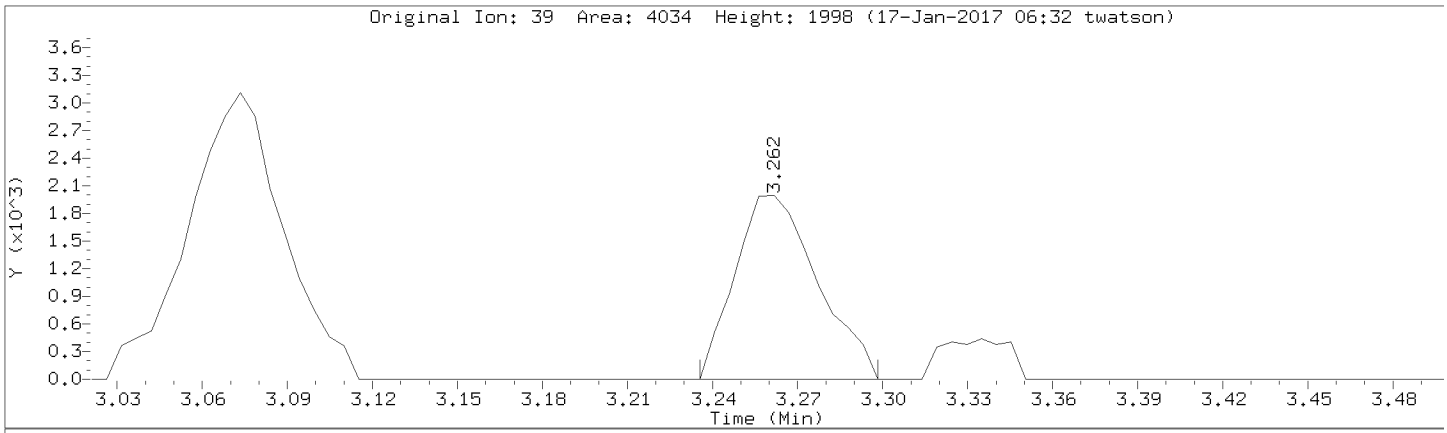
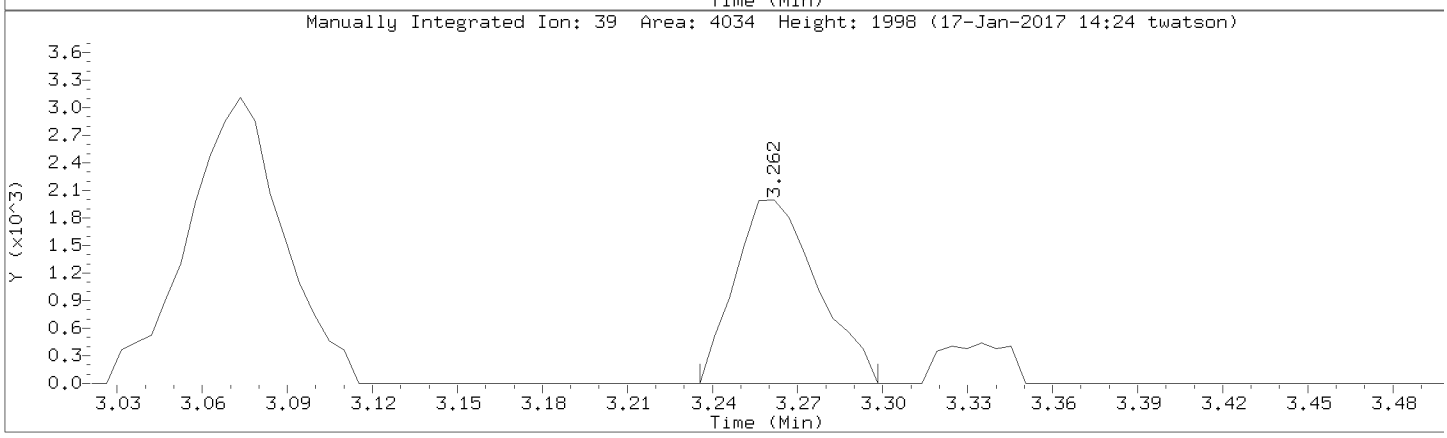
Lab Sample ID: 8260-CAL5,140018:0





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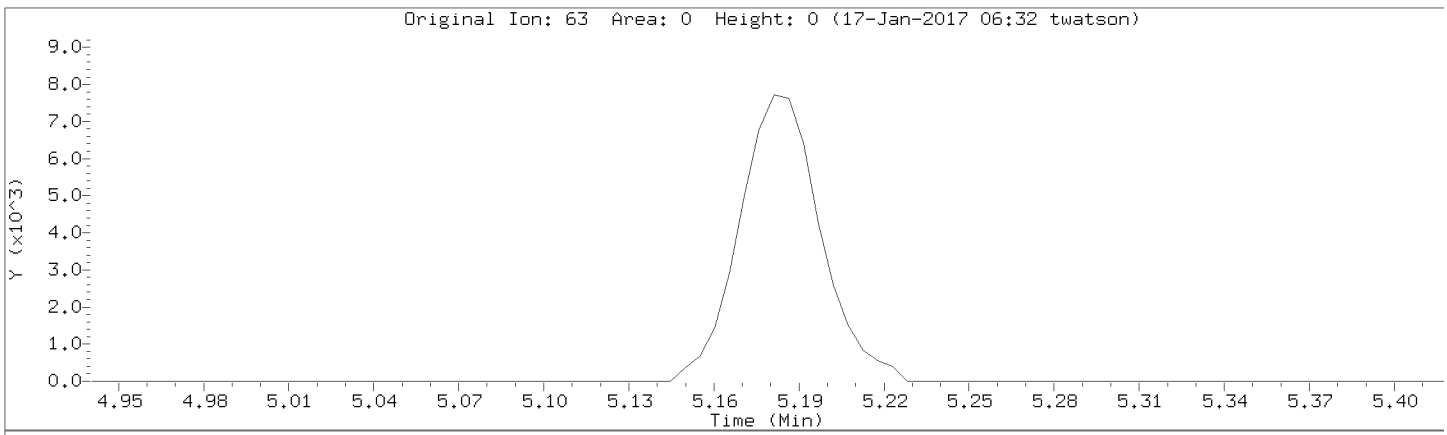
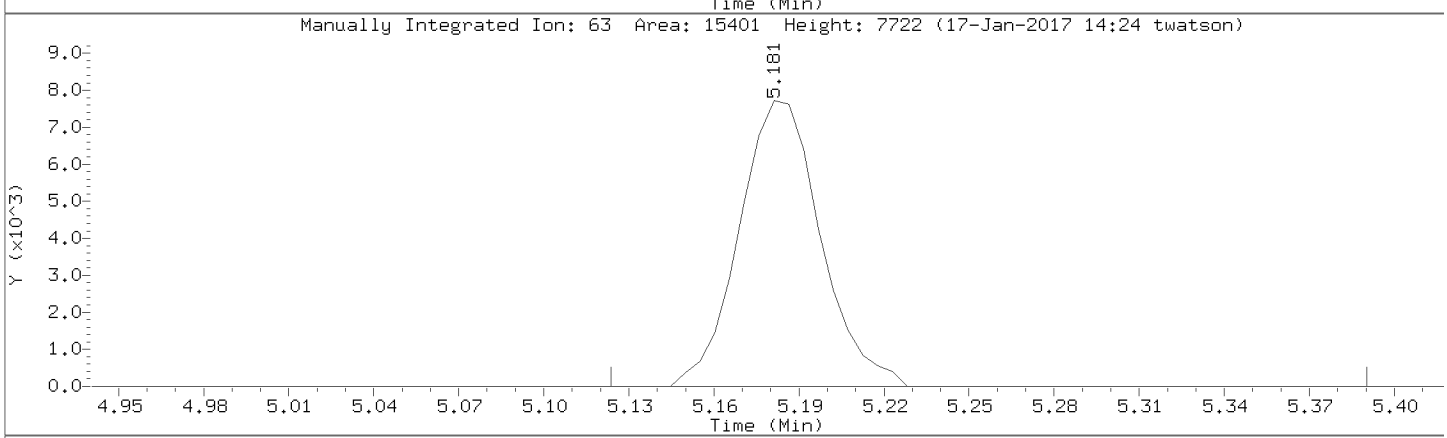
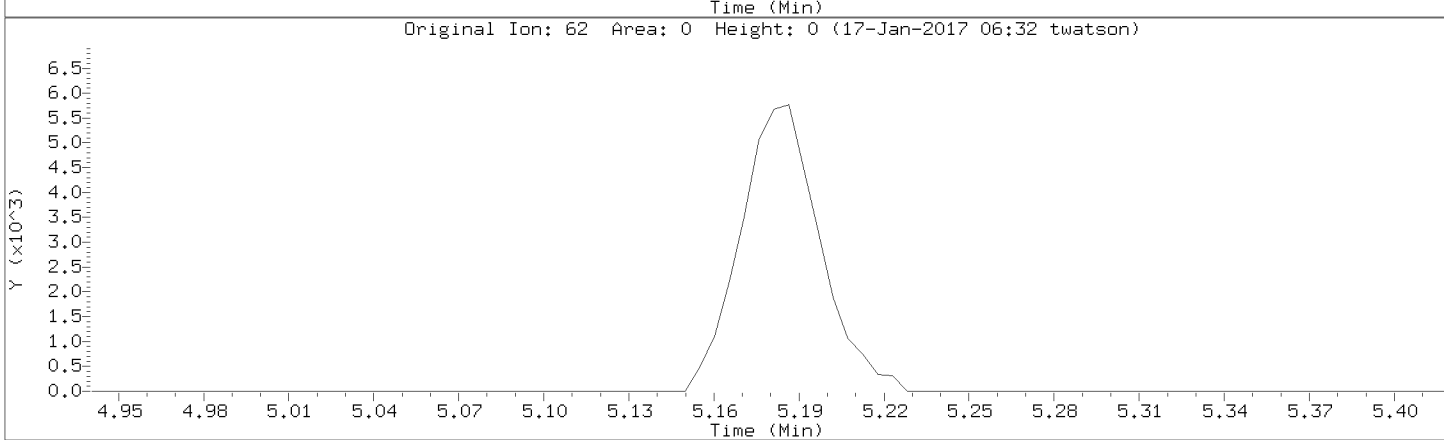
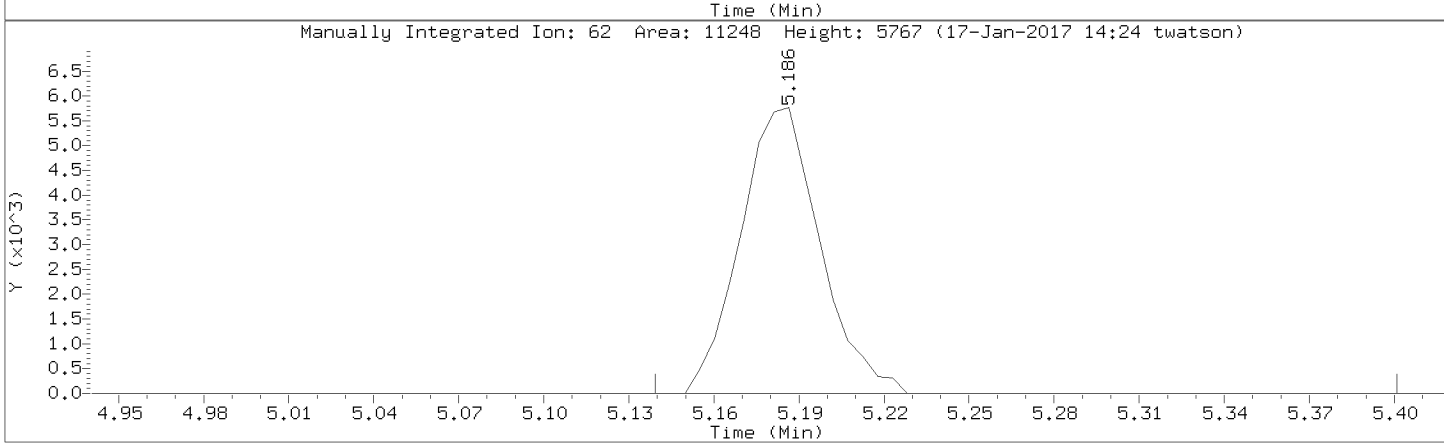
Injection Date: 16-JAN-2017 15:22
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL5,140018:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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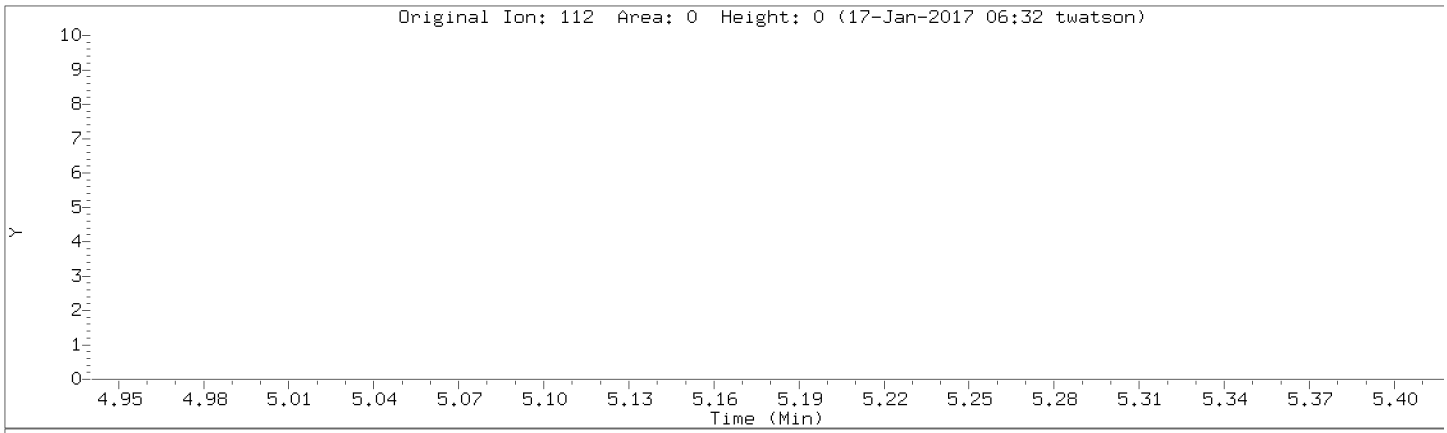
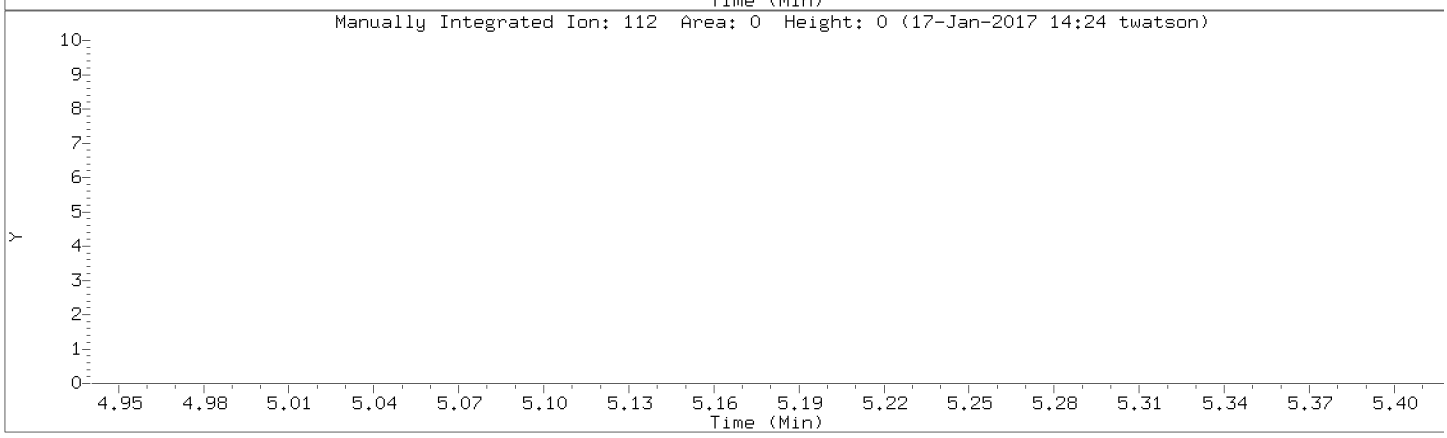
Lab Sample ID: 8260-CAL5,140018:0





Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a06cal6.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a06cal6.d
Lab Smp Id: 8260-CAL6,140019:0 Client Smp ID: 8260-CAL6,140019:0
Inj Date : 16-JAN-2017 16:00
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal6,140019:0
Misc Info : 98903
Comment :
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Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.017	1.023	(0.229)	28370	50.0000	56.1	
2 Chloromethane	50	1.148	1.148	(0.258)	39113	50.0000	51.2	
3 Vinyl Chloride	62	1.159	1.159	(0.261)	34081	50.0000	57.8	
4 Bromomethane	94	1.310	1.316	(0.295)	13107	50.0000	54.2	
5 Chloroethane	64	1.357	1.363	(0.305)	16263	50.0000	64.5	
6 Trichlorofluoromethane	101	1.483	1.488	(0.333)	38779	50.0000	57.6	
7 Diethyl ether	74	1.614	1.619	(0.363)	12065	50.0000	53.1	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.367)	33566	50.0000	51.8	
9 Acrolein	56	1.692	1.697	(0.380)	61067	1000.00	1090	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.393)	30138	50.0000	53.1	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	24592	50.0000	50.8	
12 Acetone	43	1.765	1.771	(0.397)	40397	250.000	247	
13 Iodomethane	142	1.849	1.854	(0.416)	54653	100.000	114	
14 Carbon Disulfide	76	1.901	1.907	(0.427)	85375	50.0000	49.3	
20 Methyl Acetate	43	1.943	1.948	(0.437)	25563	50.0000	54.2	
15 Acetonitrile	39	1.964	1.969	(0.442)	67154	50.0000	48.3	
16 allyl chloride	41	1.964	1.969	(0.442)	105124	100.000	98.0	
17 Methylene Chloride	84	2.043	2.048	(0.459)	26848	50.0000	49.5	
18 tert-Butyl Alcohol	59	2.079	2.090	(0.467)	6223	100.000	105(M)	NI
19 Acrylonitrile	53	2.184	2.189	(0.491)	40759	200.000	199	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.498)	69845	50.0000	47.4	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a06cal6.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	25986	50.0000	49.3	
23 n-Hexane	57	2.424	2.430	(0.545)	55763	50.0000	53.9	
25 Vinyl Acetate	43	2.539	2.545	(0.571)	278965	200.000	223	
26 1,1-Dichloroethane	63	2.555	2.560	(0.574)	56284	50.0000	51.1	
28 Chloroprene	53	2.613	2.623	(0.587)	50441	50.0000	51.6	
29 2-Butanone	43	3.036	3.047	(0.683)	56828	250.000	256	
30 1,2-Dichloroethene (cis)	96	3.062	3.073	(0.688)	29869	50.0000	51.0	
31 2,2-Dichloropropane	77	3.073	3.078	(0.691)	41324	50.0000	50.8	
27 Ethyl Acetate	88	3.083	3.094	(0.693)	7181	400.000	415	
32 Propionitrile	54	3.104	3.104	(0.698)	4349	50.0000	51.0(M)	NI
38 Methacrylonitrile	41	3.261	3.266	(0.733)	17926	50.0000	51.1	
33 Bromochloromethane	49	3.319	3.324	(0.746)	28942	50.0000	52.7	
34 Tetrahydrofuran	42	3.329	3.340	(0.748)	8908	50.0000	51.6	
35 Chloroform	83	3.434	3.444	(0.772)	51185	50.0000	49.2	
36 1,1,1-Trichloroethane	97	3.622	3.633	(0.814)	45270	50.0000	52.0	
$ 37 Dibromofluoromethane (S)	113	3.622	3.627	(0.814)	29591	50.0000	51.6	
39 Cyclohexane	56	3.716	3.727	(0.835)	55473	50.0000	48.2	
151 n-butyl chloride	56	3.784	3.789	(0.851)	69882	50.0000	52.3	
40 Carbon Tetrachloride	117	3.821	3.831	(0.859)	38665	50.0000	52.4	
41 1,1-Dichloropropene	75	3.826	3.831	(0.860)	41887	50.0000	52.3	
42 Benzene	78	4.067	4.077	(0.914)	111161	50.0000	46.1	
43 1,2-Dichloroethane	62	4.150	4.161	(0.933)	38013	50.0000	49.0	
24 Isobutyl alcohol	43	4.161	4.171	(0.935)	228266	50.0000	47.5(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.951)	128125	50.0000	49.4	
* 46 Fluorobenzene (IS)	96	4.448	4.454	(1.000)	114431	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.098)	31626	50.0000	51.9	
48 Methylcyclohexane	55	5.144	5.155	(1.156)	53625	50.0000	53.2	
49 1,2-Dichloropropane	63	5.181	5.191	(1.165)	34183	50.0000	51.2	
51 1,4-Dioxane	88	5.280	5.285	(1.187)	5332	1000.00	957	
50 Dibromomethane	93	5.275	5.285	(1.186)	18032	50.0000	51.8	
52 Methyl methacrylate	69	5.280	5.285	(1.187)	18170	50.0000	53.3	
53 Bromodichloromethane	83	5.494	5.500	(1.235)	40088	50.0000	48.1	
54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	35214	100.000	99.9	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	49913	50.0000	48.3	
56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	168576	250.000	246	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	114388	50.0000	49.2	
58 Toluene	91	6.326	6.331	(0.841)	125111	50.0000	45.1	
59 trans-1,3-Dichloropropene	75	6.588	6.598	(0.876)	44050	50.0000	49.6	
60 Ethyl Methacrylate	69	6.661	6.661	(0.885)	35989	50.0000	50.6	
61 1,1,2-Trichloroethane	83	6.765	6.776	(0.899)	22634	50.0000	50.6	
62 Tetrachloroethene	166	6.823	6.828	(0.907)	35276	50.0000	47.5	
63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	44012	50.0000	48.2	
64 2-Hexanone	43	6.954	6.959	(0.924)	121942	250.000	242	
65 Dibromochloromethane	129	7.084	7.090	(0.942)	31577	50.0000	48.4	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	27117	50.0000	49.7	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	95717	50.0000		
68 Chlorobenzene	112	7.545	7.555	(1.003)	87433	50.0000	46.4	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	32679	50.0000	47.4	
70 Ethylbenzene	106	7.623	7.628	(1.013)	47122	50.0000	44.8	
71 m&p-Xylene	106	7.723	7.728	(1.026)	114985	100.000	92.4	
72 o-Xylene	106	7.979	7.984	(1.060)	57428	50.0000	44.1	
73 Styrene	104	7.995	8.000	(1.063)	101291	50.0000	44.8	
74 Bromoform	173	8.120	8.125	(0.901)	23152	50.0000	51.9	
75 Isopropylbenzene	105	8.219	8.225	(1.092)	157836	50.0000	44.3	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a06cal6.d
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	49018	50.0000	50.3	
77 Bromobenzene	77	8.413	8.418	(1.118)	63067	50.0000	44.8	
78 1,1,2,2-Tetrachloroethane	83	8.423	8.423	(0.935)	38953	50.0000	50.6	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	11244	50.0000	49.8	
80 1,2,3-Trichloropropane	110	8.450	8.455	(0.938)	9409	50.0000	50.7	
81 n-Propylbenzene	91	8.481	8.481	(0.941)	192760	50.0000	47.7	
82 2-Chlorotoluene	91	8.533	8.538	(0.947)	113339	50.0000	47.4	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	139624	50.0000	48.6	
84 4-Chlorotoluene	126	8.606	8.612	(0.955)	40130	50.0000	48.2	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	121375	50.0000	48.4	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	142522	50.0000	47.4	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	186629	50.0000	46.5	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	78770	50.0000	48.1	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	155624	50.0000	48.7	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	54672	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	79172	50.0000	47.5	
92 n-Butylbenzene	91	9.197	9.203	(1.021)	153854	50.0000	49.2	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	77545	50.0000	48.4	
94 1,2-Dibromo-3-chloropropane	155	9.626	9.632	(1.069)	7731	50.0000	55.2	
95 1,2,4-Trichlorobenzene	180	10.045	10.050	(1.115)	62684	50.0000	49.7	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	36863	50.0000	48.9	
97 Naphthalene	128	10.191	10.196	(1.131)	141898	50.0000	50.1	
98 1,2,3-Trichlorobenzene	180	10.312	10.317	(1.145)	59501	50.0000	47.6	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	66266	50.0000	51.5	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	60989	50.0000	52.7	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

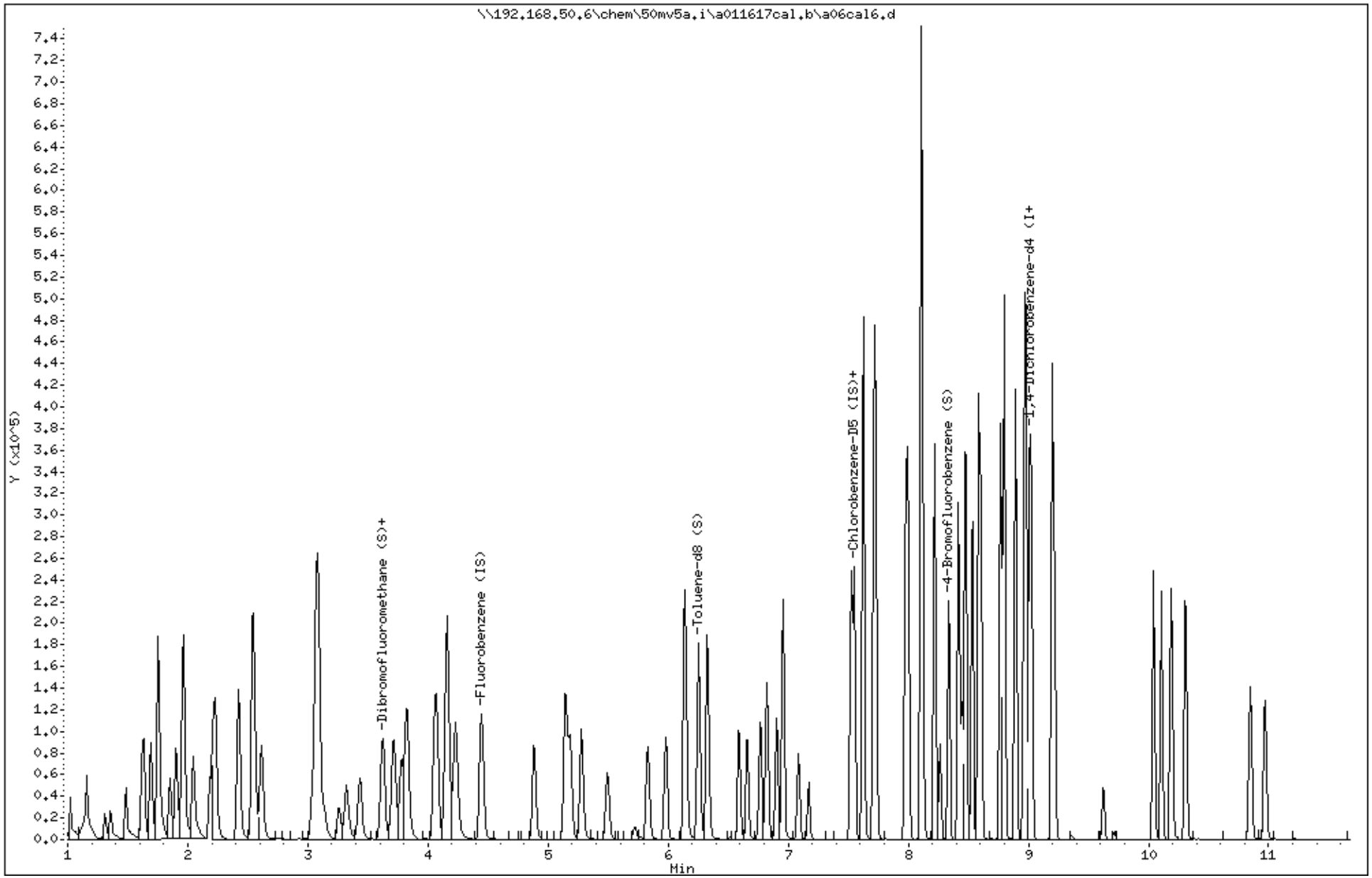
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a06cal6.d
Date : 16-JAN-2017 16:00
Client ID: 8260-CAL6,140019:0
Sample Info: 8260-CAL6,140019:0

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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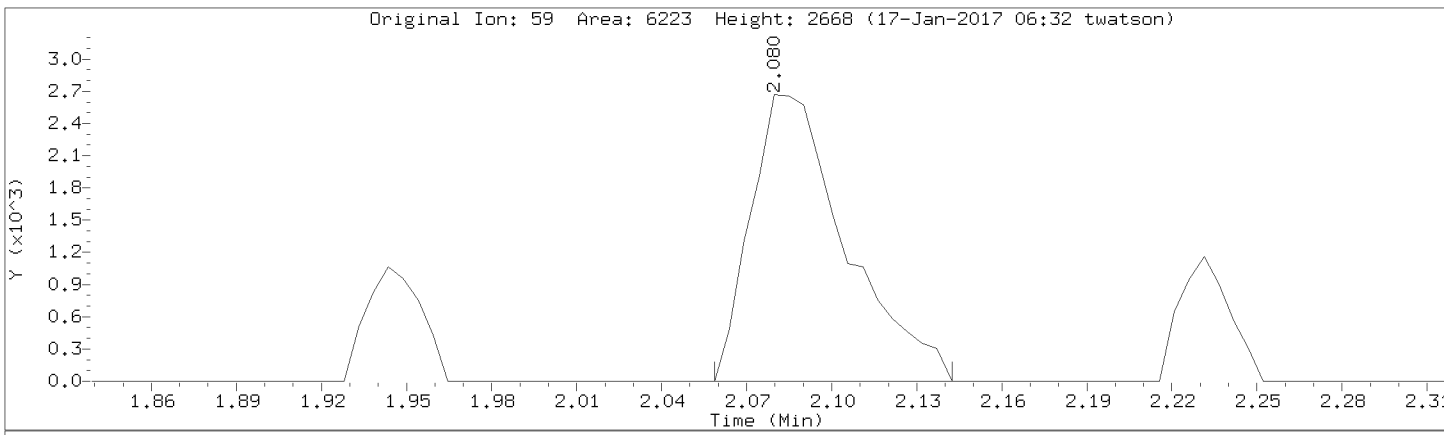
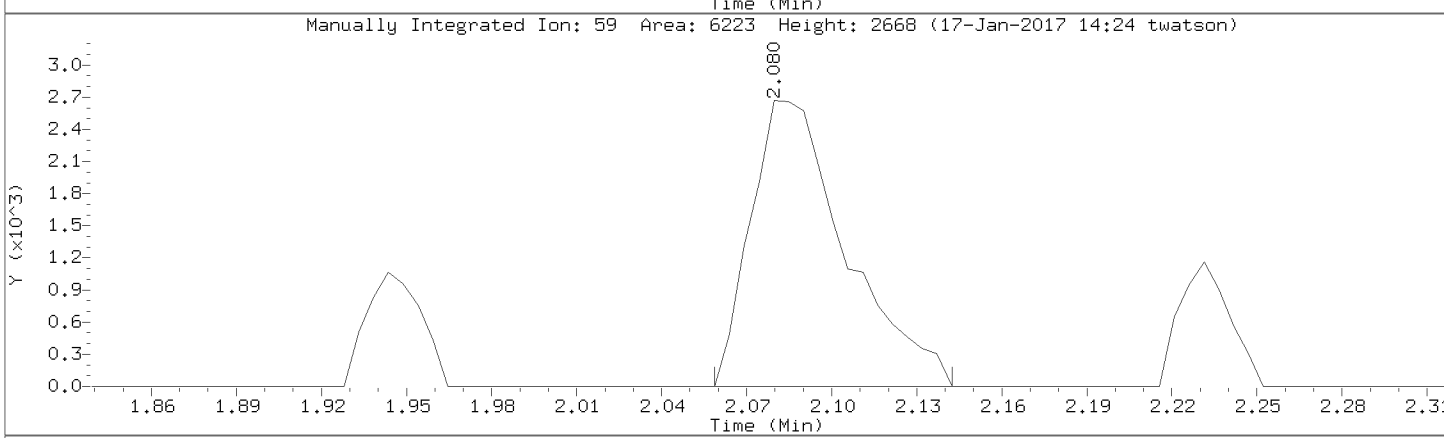
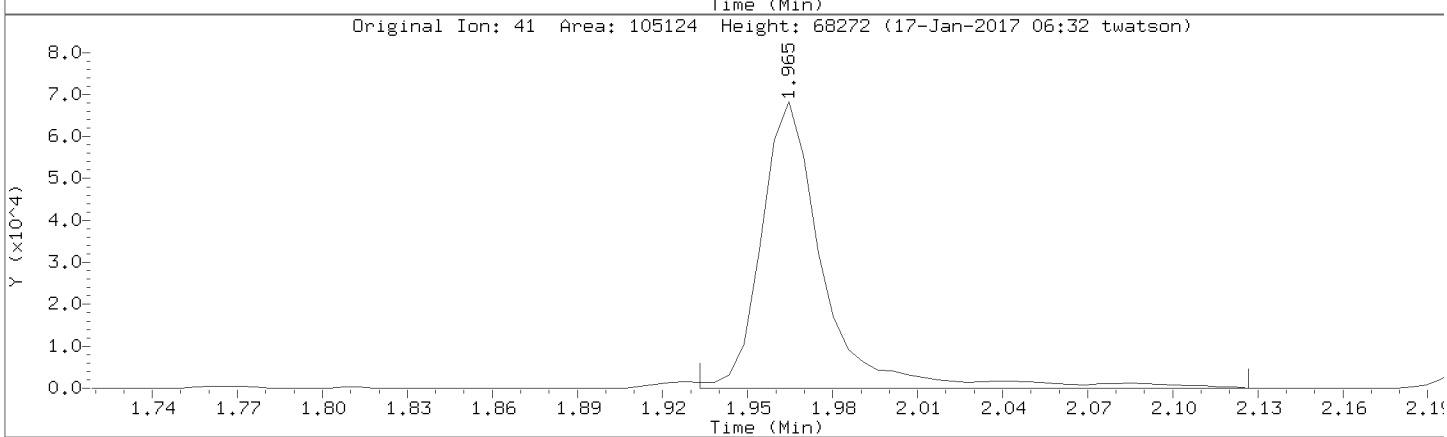
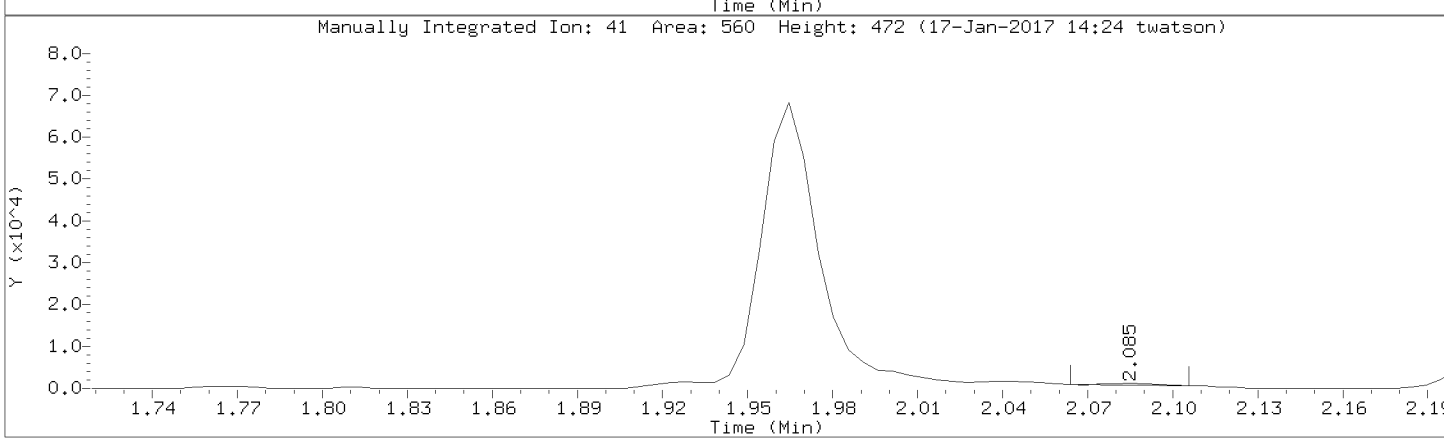
Injection Date: 16-JAN-2017 16:00
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL6,140019:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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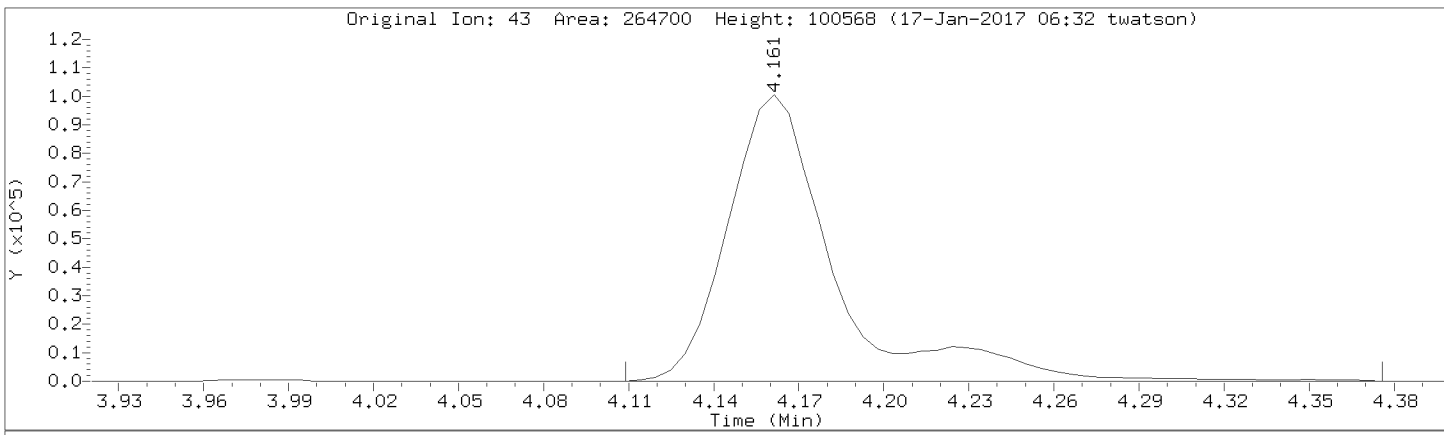
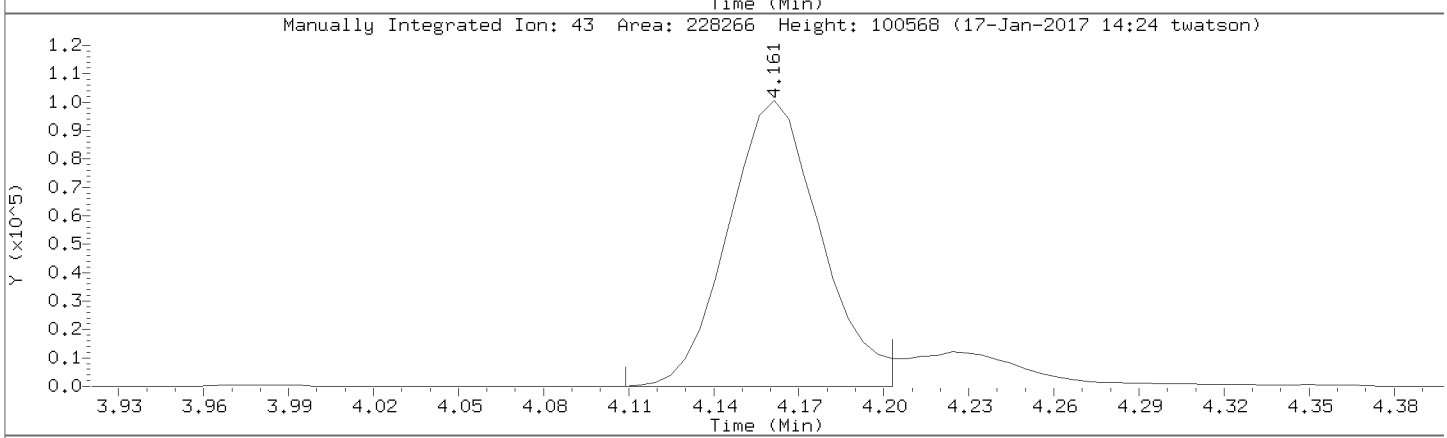
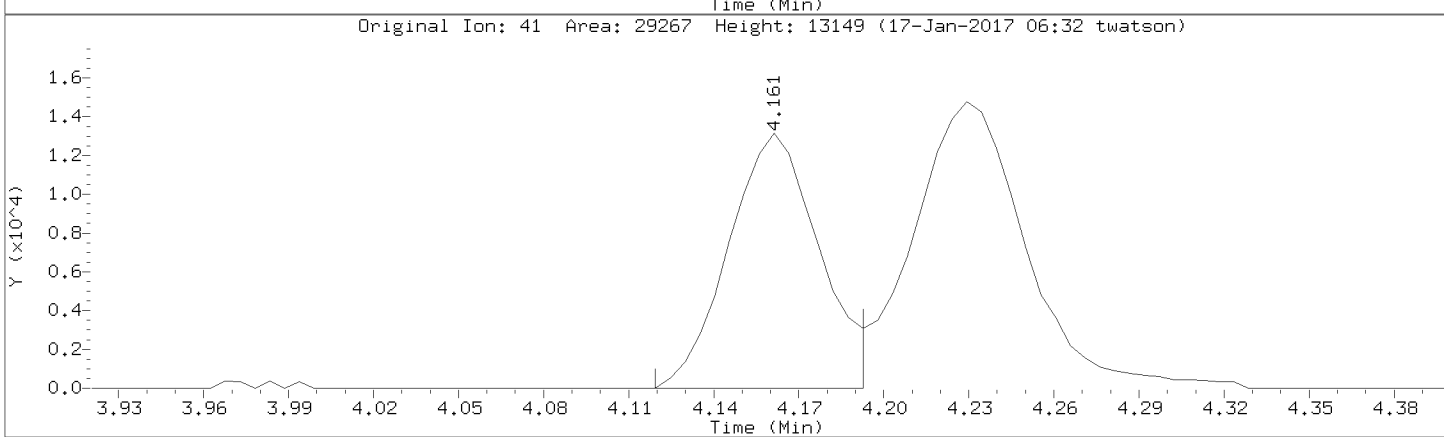
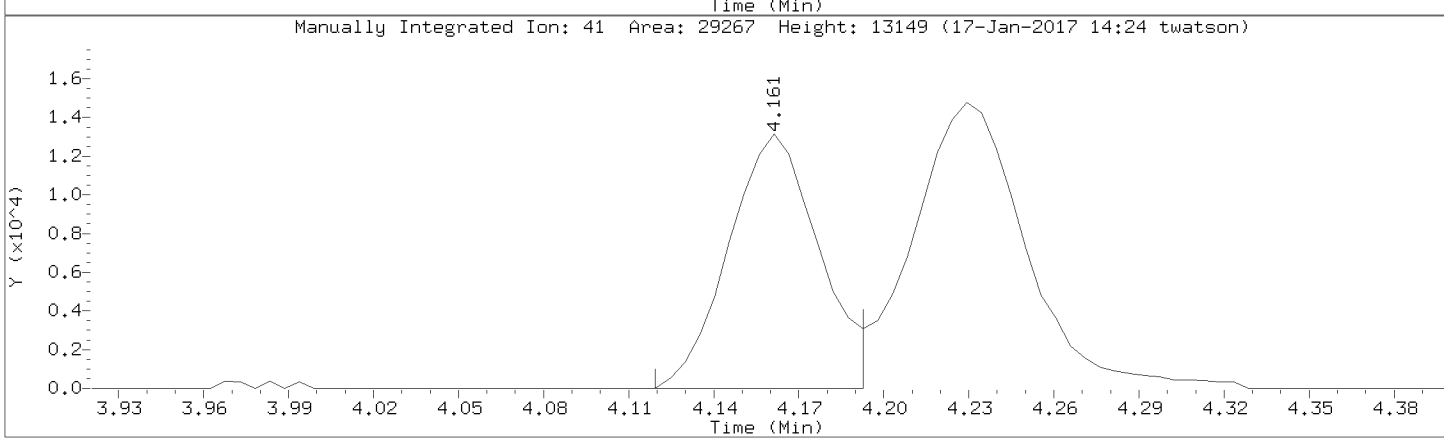
Injection Date: 16-JAN-2017 16:00
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL6,140019:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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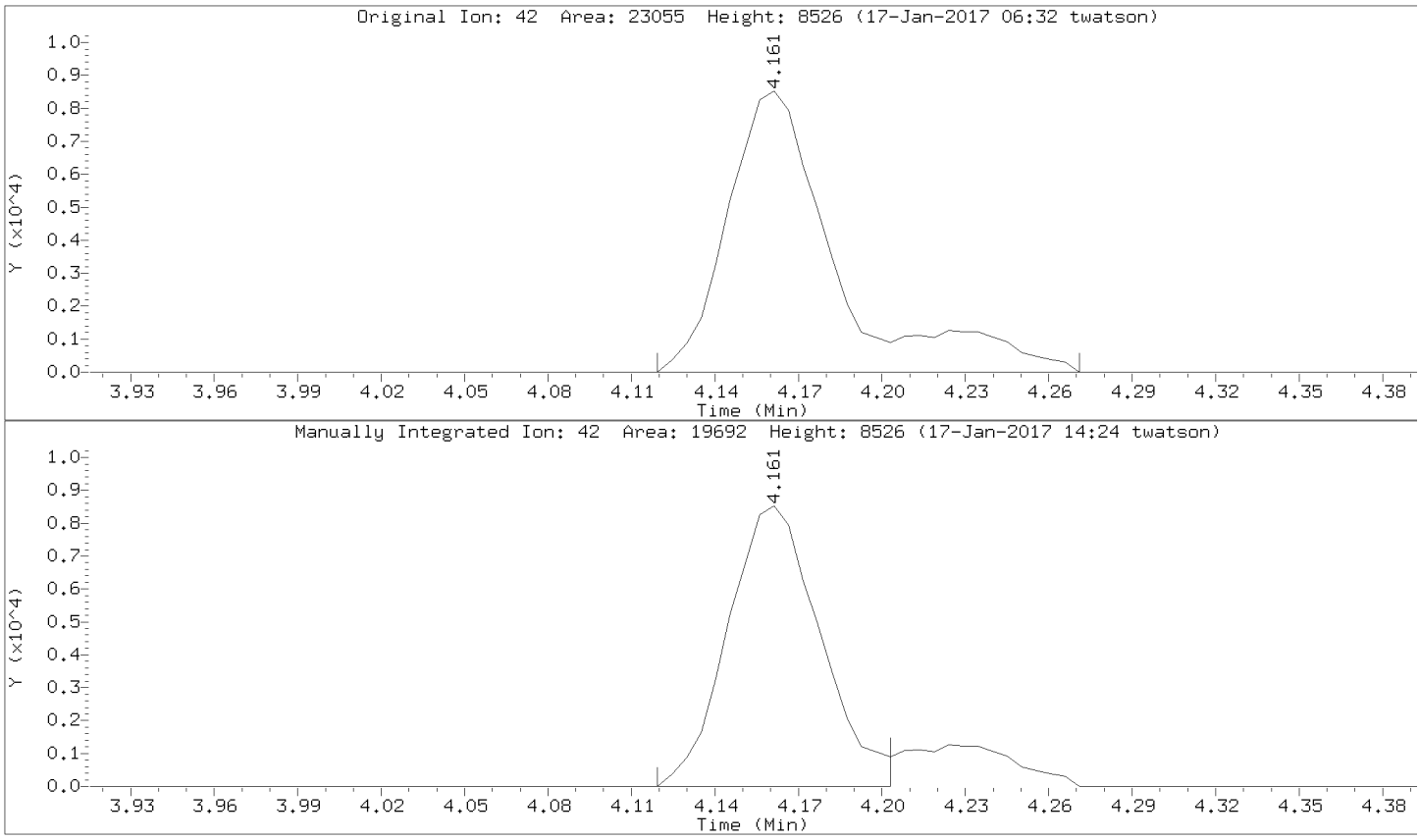
Lab Sample ID: 8260-CAL6,140019:0



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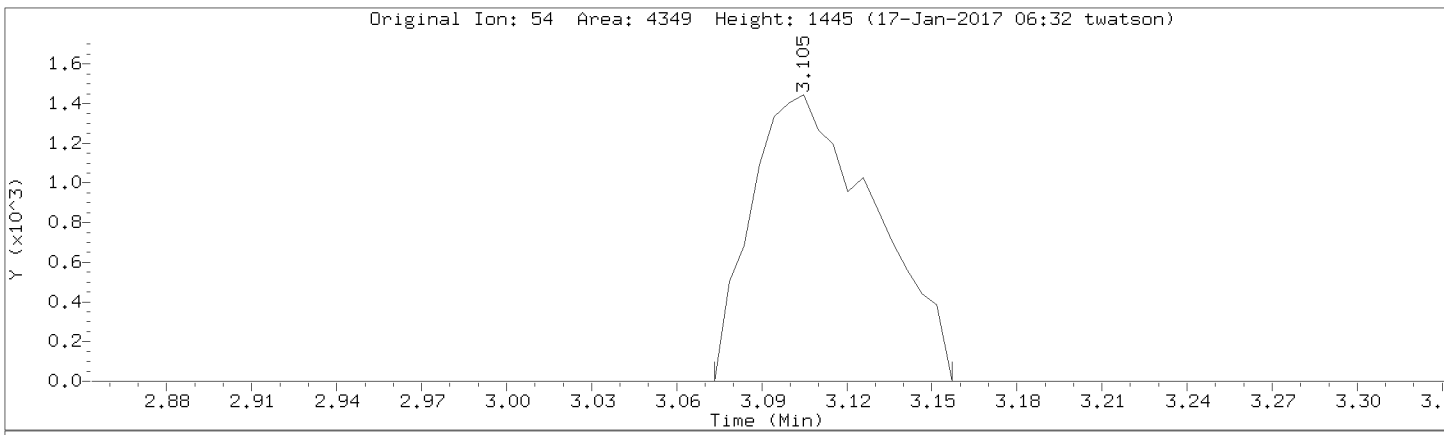
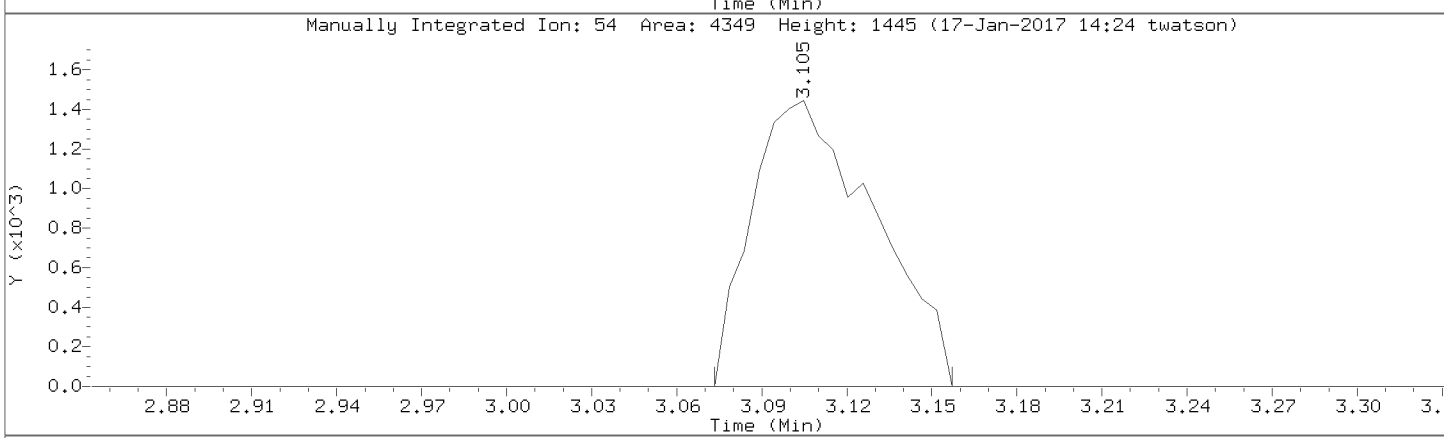
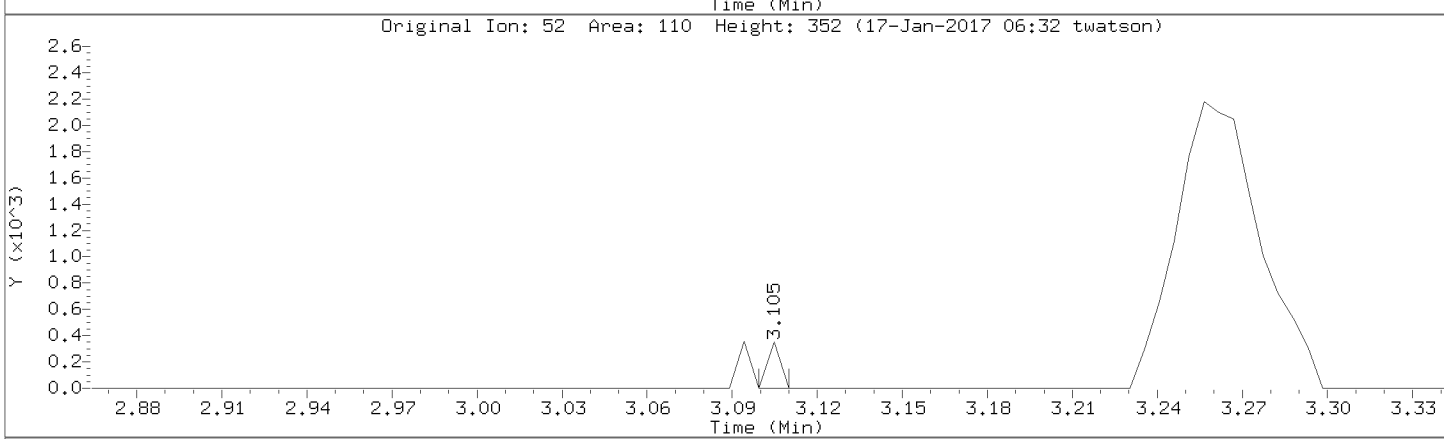
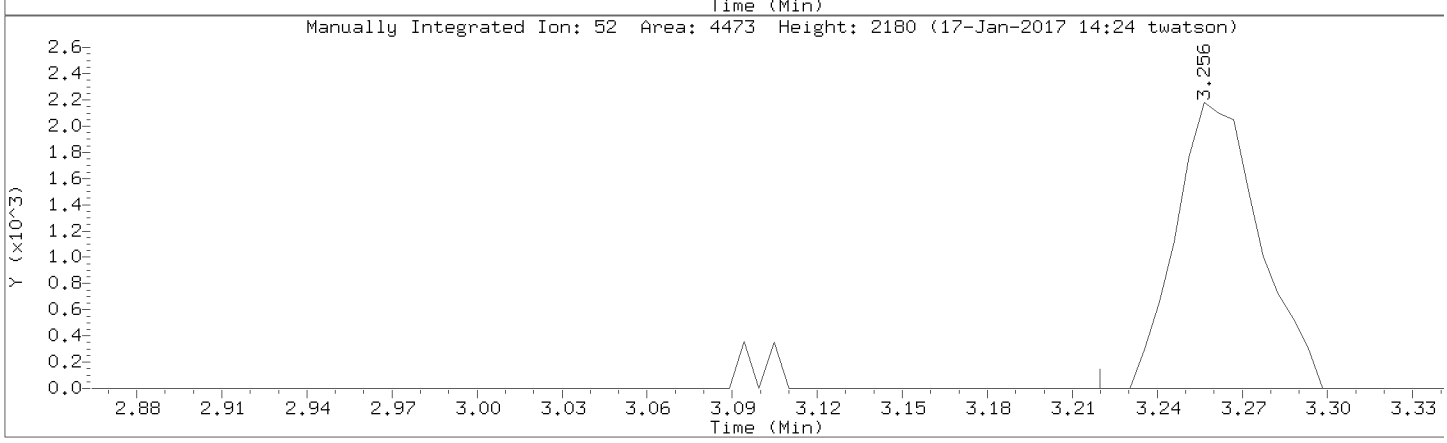
Injection Date: 16-JAN-2017 16:00
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL6,140019:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a06cal6.d
Injection Date: 16-JAN-2017 16:00
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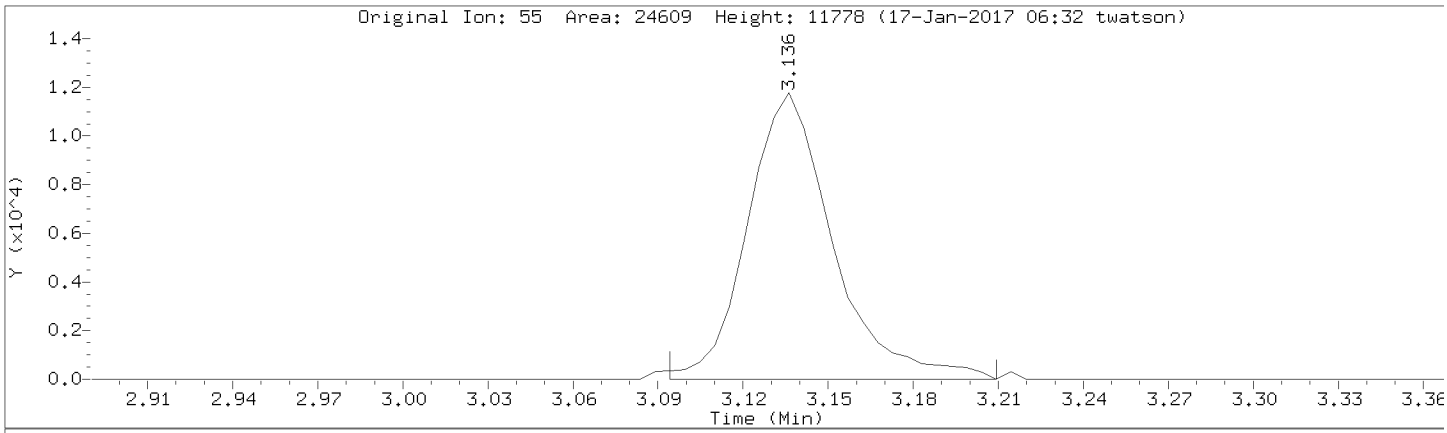
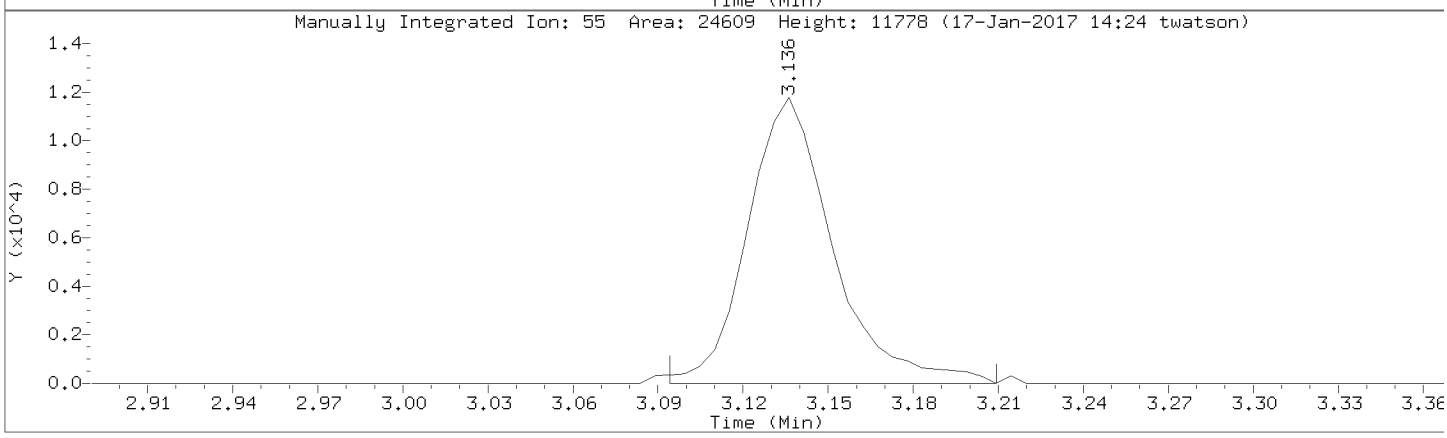
Lab Sample ID: 8260-CAL6,140019:0





Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a07cal7.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a07cal7.d
Lab Smp Id: 8260-CAL7,140020:0 Client Smp ID: 8260-CAL7,140020:0
Inj Date : 16-JAN-2017 16:36
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal7,140020:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.017	1.023	(0.229)	81388	150.000	162	
2 Chloromethane	50	1.148	1.148	(0.258)	115967	150.000	153	
3 Vinyl Chloride	62	1.159	1.159	(0.261)	96313	150.000	164	
4 Bromomethane	94	1.305	1.316	(0.294)	38370	150.000	162	
5 Chloroethane	64	1.352	1.363	(0.304)	40279	150.000	161	
6 Trichlorofluoromethane	101	1.478	1.488	(0.333)	108811	150.000	162	
7 Diethyl ether	74	1.614	1.619	(0.363)	35683	150.000	158	
8 1,2-dichlorotrifluoroethane	67	1.629	1.635	(0.367)	103828	150.000	161	
9 Acrolein	56	1.692	1.697	(0.381)	159906	3000.00	2870	
10 1,1,2trichlorotrifluoroethane	101	1.744	1.755	(0.393)	91598	150.000	162	
11 1,1-Dichloroethene	96	1.750	1.760	(0.394)	76522	150.000	159	
12 Acetone	43	1.765	1.771	(0.397)	117249	750.000	722	
13 Iodomethane	142	1.849	1.854	(0.416)	169994	300.000	355	
14 Carbon Disulfide	76	1.901	1.907	(0.428)	259932	150.000	151	
20 Methyl Acetate	43	1.943	1.948	(0.437)	71908	150.000	153	
15 Acetonitrile	39	1.959	1.969	(0.441)	197084	150.000	143	
16 allyl chloride	41	1.959	1.969	(0.441)	308836	300.000	290	
17 Methylene Chloride	84	2.043	2.048	(0.460)	83494	150.000	155	
18 tert-Butyl Alcohol	59	2.084	2.090	(0.469)	20332	300.000	345(M)	NI
19 Acrylonitrile	53	2.184	2.189	(0.492)	123390	600.000	605	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.499)	213667	150.000	146	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a07cal7.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	83312	150.000	159	
23 n-Hexane	57	2.424	2.430	(0.546)	176417	150.000	171	
25 Vinyl Acetate	43	2.539	2.545	(0.572)	712526	600.000	572	
26 1,1-Dichloroethane	63	2.555	2.560	(0.575)	165852	150.000	151	
28 Chloroprene	53	2.613	2.623	(0.588)	146245	150.000	150	
29 2-Butanone	43	3.042	3.047	(0.685)	172716	750.000	782	
30 1,2-Dichloroethene (cis)	96	3.062	3.073	(0.689)	90584	150.000	156	
31 2,2-Dichloropropane	77	3.068	3.078	(0.690)	129028	150.000	160	
27 Ethyl Acetate	88	3.089	3.094	(0.695)	22124	1200.00	1280	
32 Propionitrile	54	3.099	3.104	(0.698)	13773	150.000	162(M)	WP
38 Methacrylonitrile	41	3.261	3.266	(0.734)	54732	150.000	157	
33 Bromochloromethane	49	3.313	3.324	(0.746)	80814	150.000	148	
34 Tetrahydrofuran	42	3.329	3.340	(0.749)	27178	150.000	158	
35 Chloroform	83	3.434	3.444	(0.773)	153395	150.000	148	
36 1,1,1-Trichloroethane	97	3.622	3.633	(0.815)	138391	150.000	160	
$ 37 Dibromofluoromethane (S)	113	3.617	3.627	(0.814)	27645	50.0000	48.5	
39 Cyclohexane	56	3.711	3.727	(0.835)	172393	150.000	150	
151 n-butyl chloride	56	3.774	3.789	(0.849)	211470	150.000	159	
40 Carbon Tetrachloride	117	3.821	3.831	(0.860)	120888	150.000	165	
41 1,1-Dichloropropene	75	3.821	3.831	(0.860)	128917	150.000	162	
42 Benzene	78	4.067	4.077	(0.915)	344169	150.000	144	
43 1,2-Dichloroethane	62	4.150	4.161	(0.934)	115792	150.000	150	
24 Isobutyl alcohol	43	4.166	4.171	(0.938)	710511	150.000	149(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.952)	401100	150.000	156	
* 46 Fluorobenzene (IS)	96	4.443	4.454	(1.000)	113763	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.099)	95057	150.000	157	
48 Methylcyclohexane	55	5.144	5.155	(1.158)	164376	150.000	164	
49 1,2-Dichloropropane	63	5.181	5.191	(1.166)	104932	150.000	158	
51 1,4-Dioxane	88	5.280	5.285	(1.188)	19411	3000.00	3190	
50 Dibromomethane	93	5.280	5.285	(1.188)	54728	150.000	158	
52 Methyl methacrylate	69	5.275	5.285	(1.187)	54518	150.000	161	
53 Bromodichloromethane	83	5.495	5.500	(1.237)	126983	150.000	153	
54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	104718	300.000	311	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	155381	150.000	158	
56 4-Methyl-2-Pentanone	43	6.143	6.148	(0.816)	486387	750.000	744	
$ 57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	113345	50.0000	51.1	
58 Toluene	91	6.326	6.331	(0.841)	389843	150.000	147	
59 trans-1,3-Dichloropropene	75	6.588	6.598	(0.876)	137785	150.000	162	
60 Ethyl Methacrylate	69	6.661	6.661	(0.885)	104272	150.000	154	
61 1,1,2-Trichloroethane	83	6.765	6.776	(0.899)	66705	150.000	156	
62 Tetrachloroethene	166	6.823	6.828	(0.907)	110031	150.000	155	
63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	134083	150.000	154	
64 2-Hexanone	43	6.954	6.959	(0.924)	364190	750.000	757	
65 Dibromochloromethane	129	7.084	7.090	(0.942)	96319	150.000	155	
66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	83582	150.000	160	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	91421	50.0000		
68 Chlorobenzene	112	7.550	7.555	(1.003)	274161	150.000	152	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	103833	150.000	158	
70 Ethylbenzene	106	7.623	7.628	(1.013)	149398	150.000	148	
71 m&p-Xylene	106	7.723	7.728	(1.026)	356124	300.000	300	
72 o-Xylene	106	7.979	7.984	(1.060)	176599	150.000	142	
73 Styrene	104	7.995	8.000	(1.063)	309044	150.000	143	
74 Bromoform	173	8.120	8.125	(0.901)	70354	150.000	157	
75 Isopropylbenzene	105	8.219	8.225	(1.092)	494880	150.000	146	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a07cal7.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.108)	46868	50.0000	50.4	
77 Bromobenzene	77	8.418	8.418	(1.119)	190580	150.000	142	
78 1,1,2,2-Tetrachloroethane	83	8.423	8.423	(0.935)	115720	150.000	150	
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	33979	150.000	158	
80 1,2,3-Trichloropropane	110	8.455	8.455	(0.938)	29249	150.000	156	
81 n-Propylbenzene	91	8.481	8.481	(0.941)	608030	150.000	149	
82 2-Chlorotoluene	91	8.533	8.538	(0.947)	361351	150.000	150	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	431438	150.000	149	
84 4-Chlorotoluene	126	8.606	8.612	(0.955)	122338	150.000	146	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	376936	150.000	149	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	451882	150.000	149	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	579248	150.000	143	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	244053	150.000	148	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	499764	150.000	155	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	55006	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	245128	150.000	146	
92 n-Butylbenzene	91	9.198	9.203	(1.021)	487691	150.000	155	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	239672	150.000	149	
94 1,2-Dibromo-3-chloropropane	155	9.621	9.632	(1.068)	22361	150.000	159	
95 1,2,4-Trichlorobenzene	180	10.045	10.050	(1.115)	186589	150.000	147	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	114350	150.000	151	
97 Naphthalene	128	10.191	10.196	(1.131)	411823	150.000	144	
98 1,2,3-Trichlorobenzene	180	10.312	10.317	(1.145)	177118	150.000	141	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	194391	150.000	150	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	177661	150.000	152	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

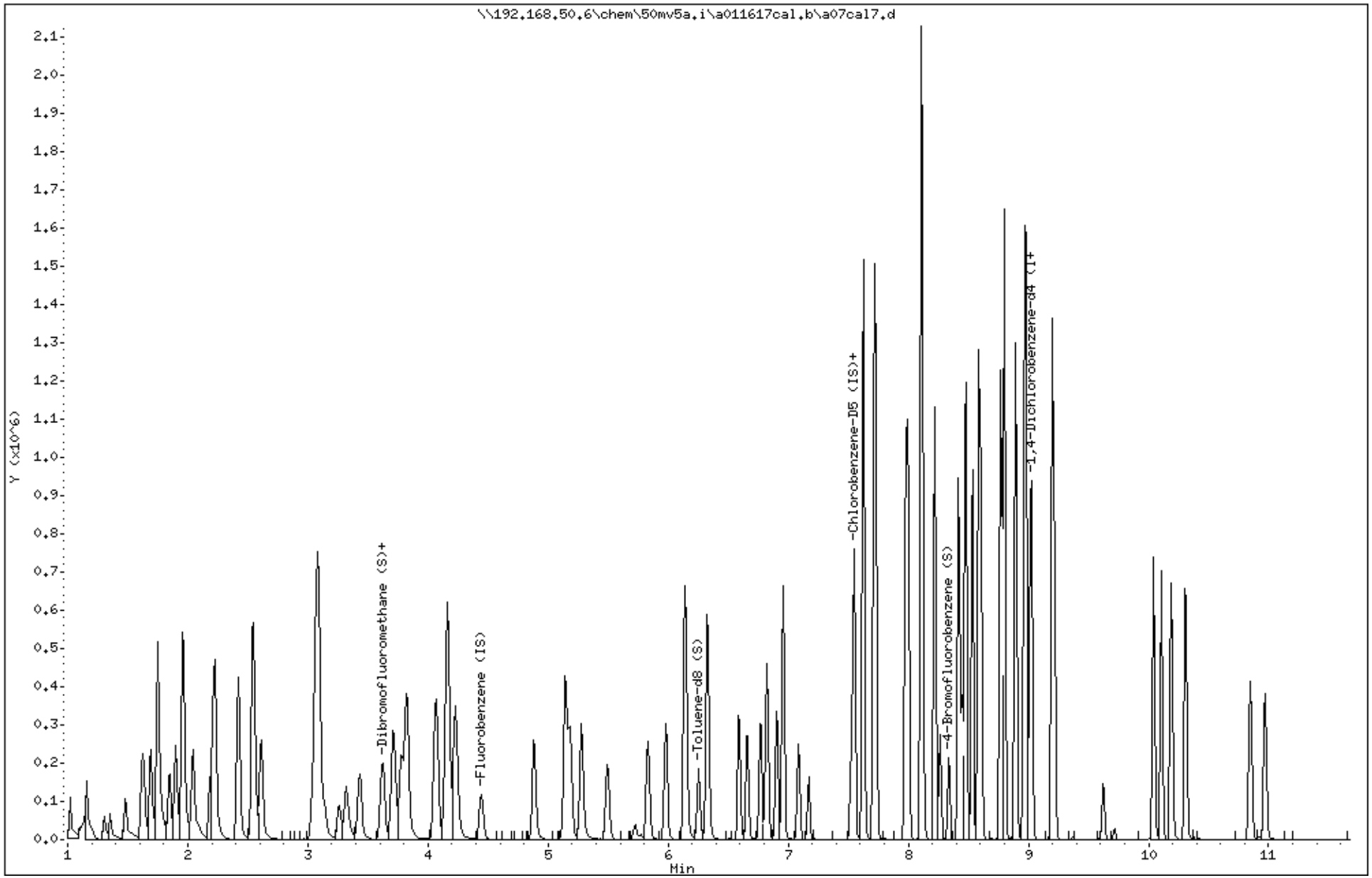
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a07cal7.d
Date : 16-JAN-2017 16:36
Client ID: 8260-CAL7,140020:0
Sample Info: 8260-CAL7,140020:0

Column phase: DB-624

Instrument: 50mv5a.i

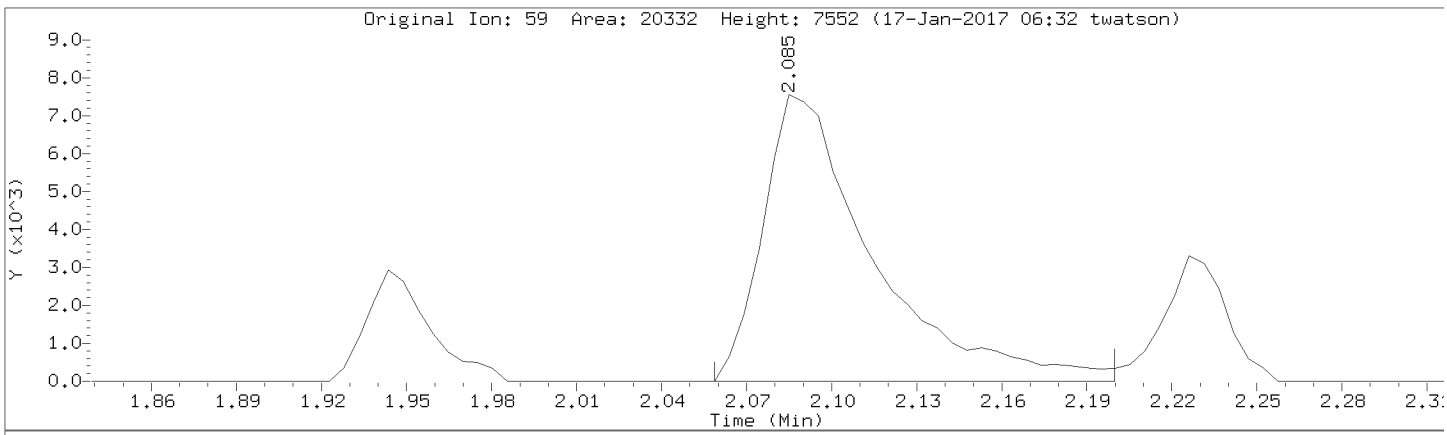
Operator: TMW

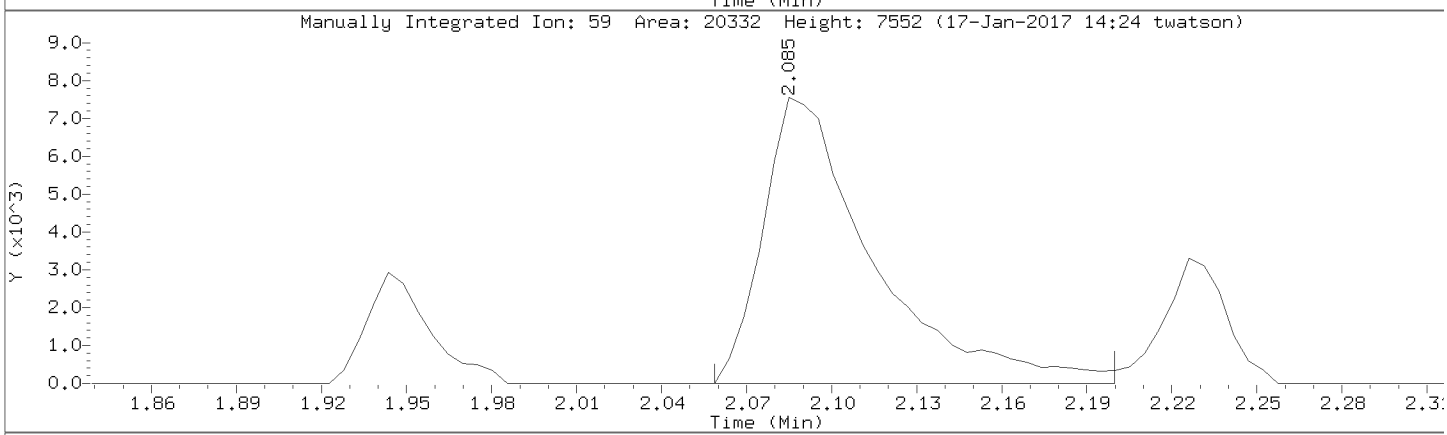
Column diameter: 0.18

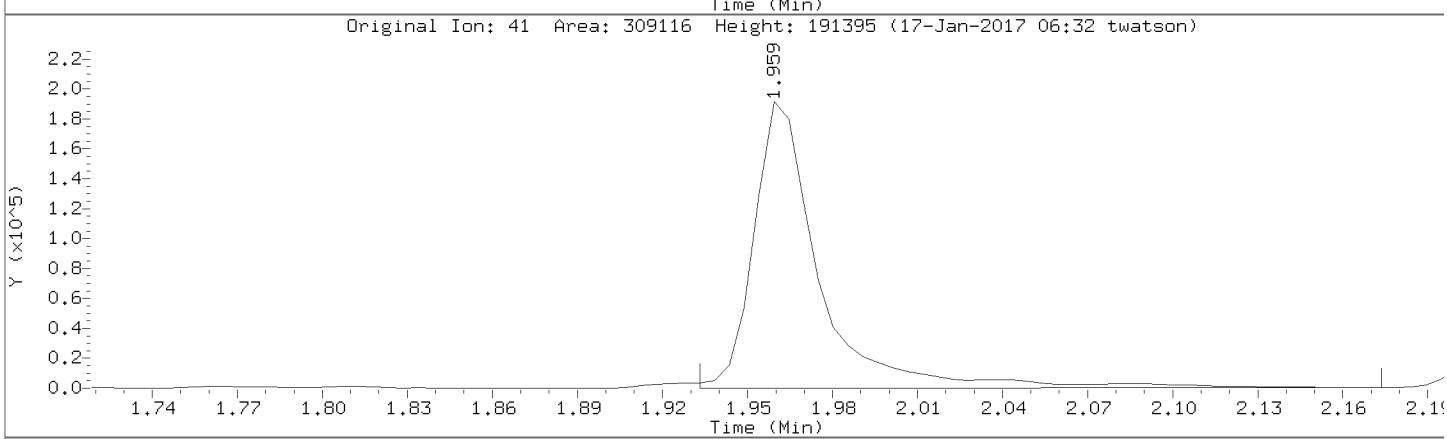


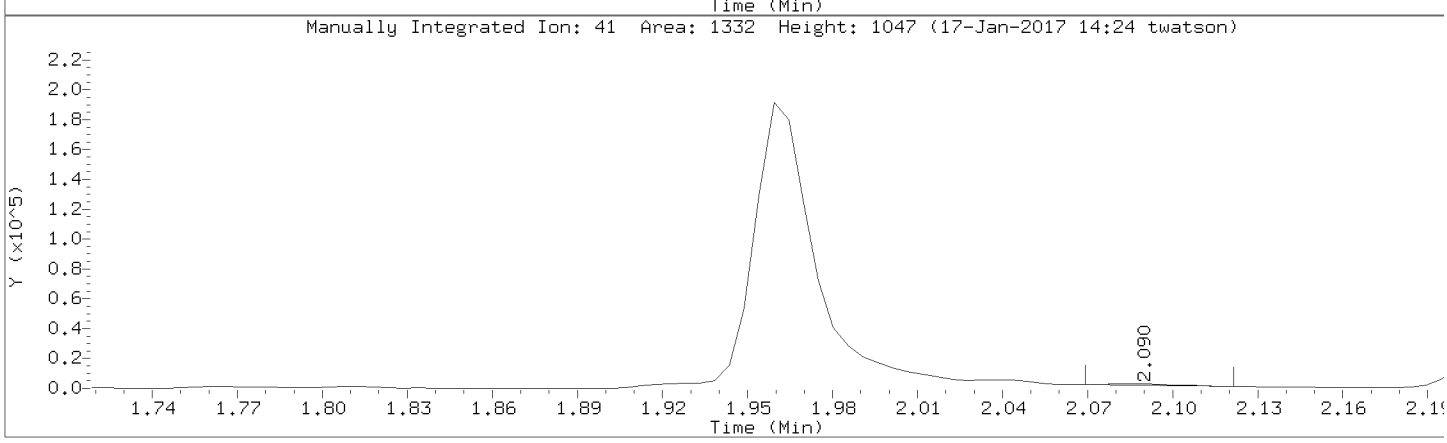
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a07cal7.d
Injection Date: 16-JAN-2017 16:36
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL7,140020:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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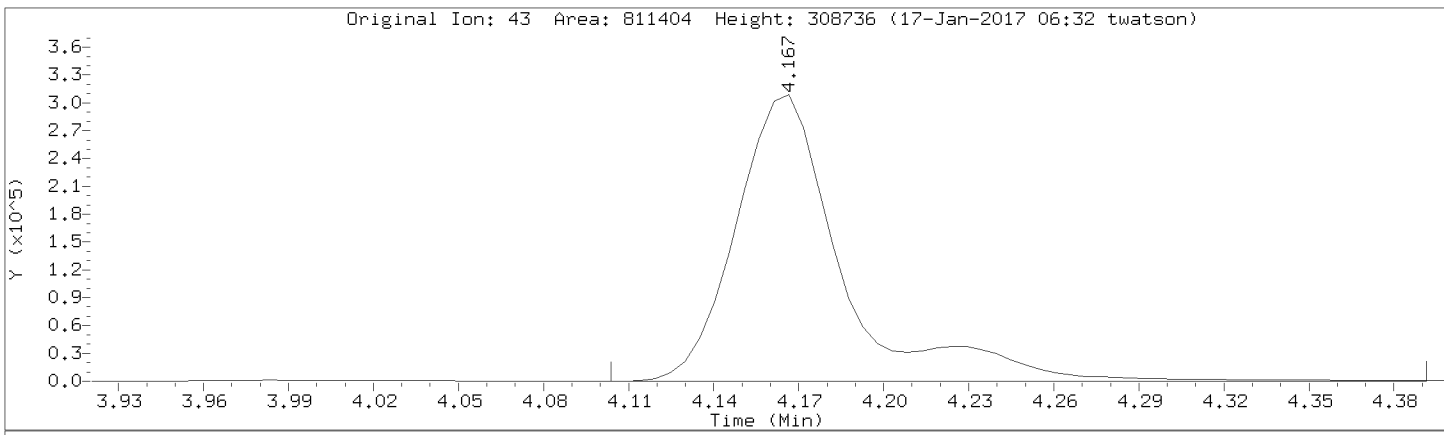
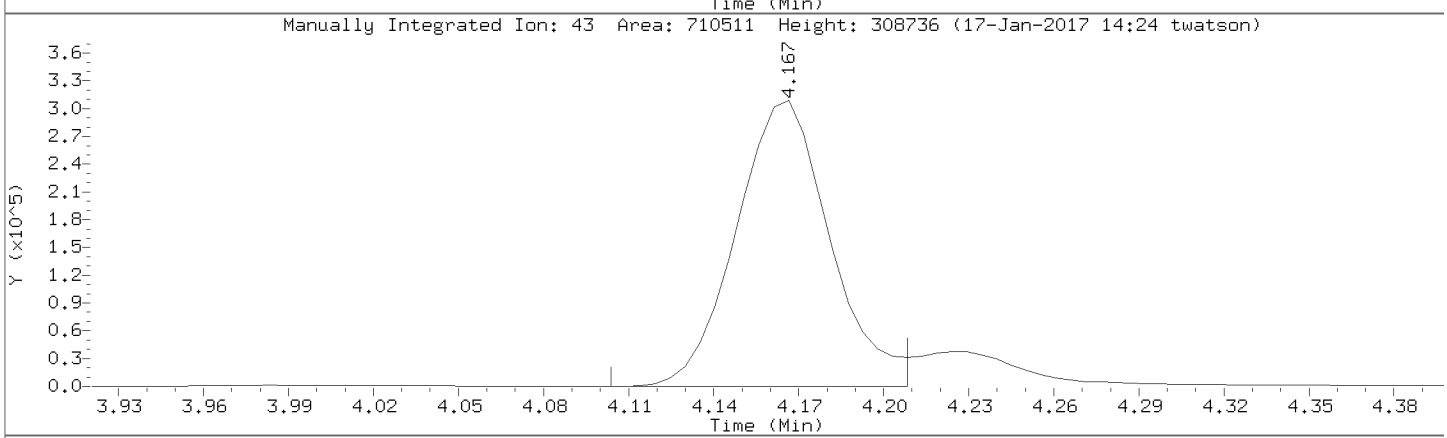
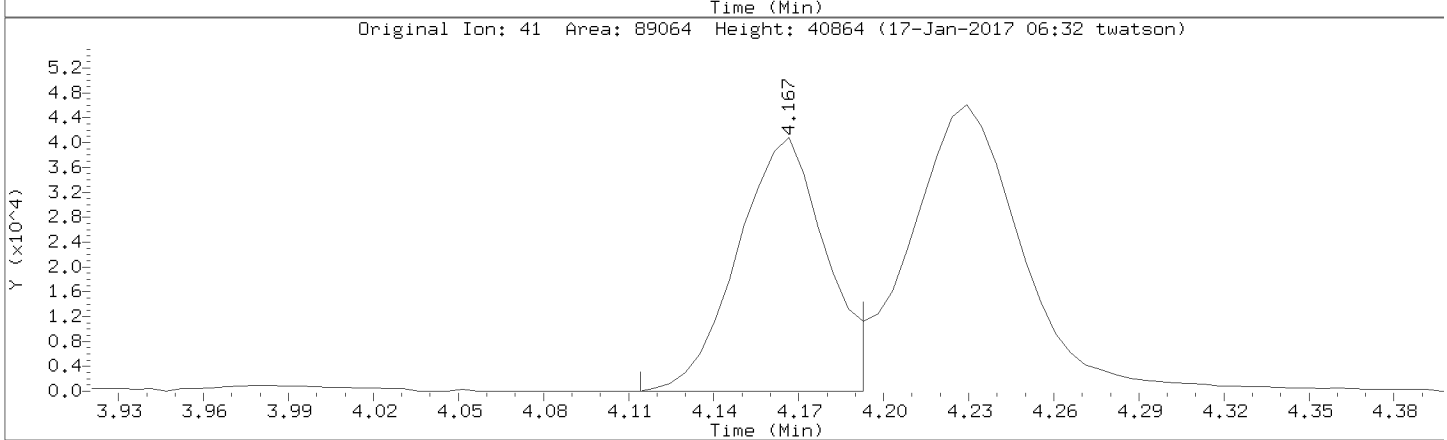
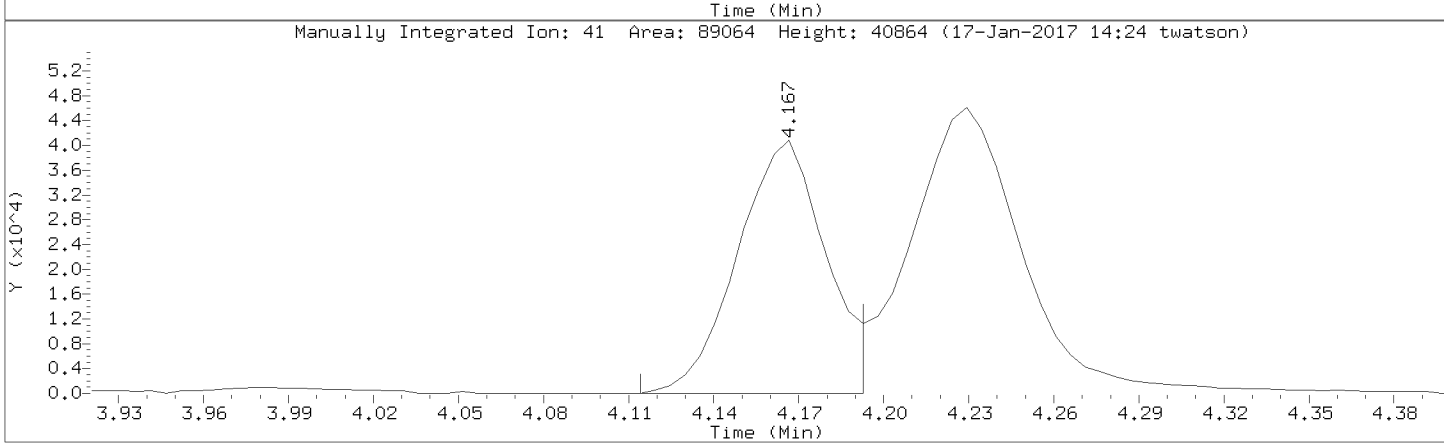
Injection Date: 16-JAN-2017 16:36
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL7,140020:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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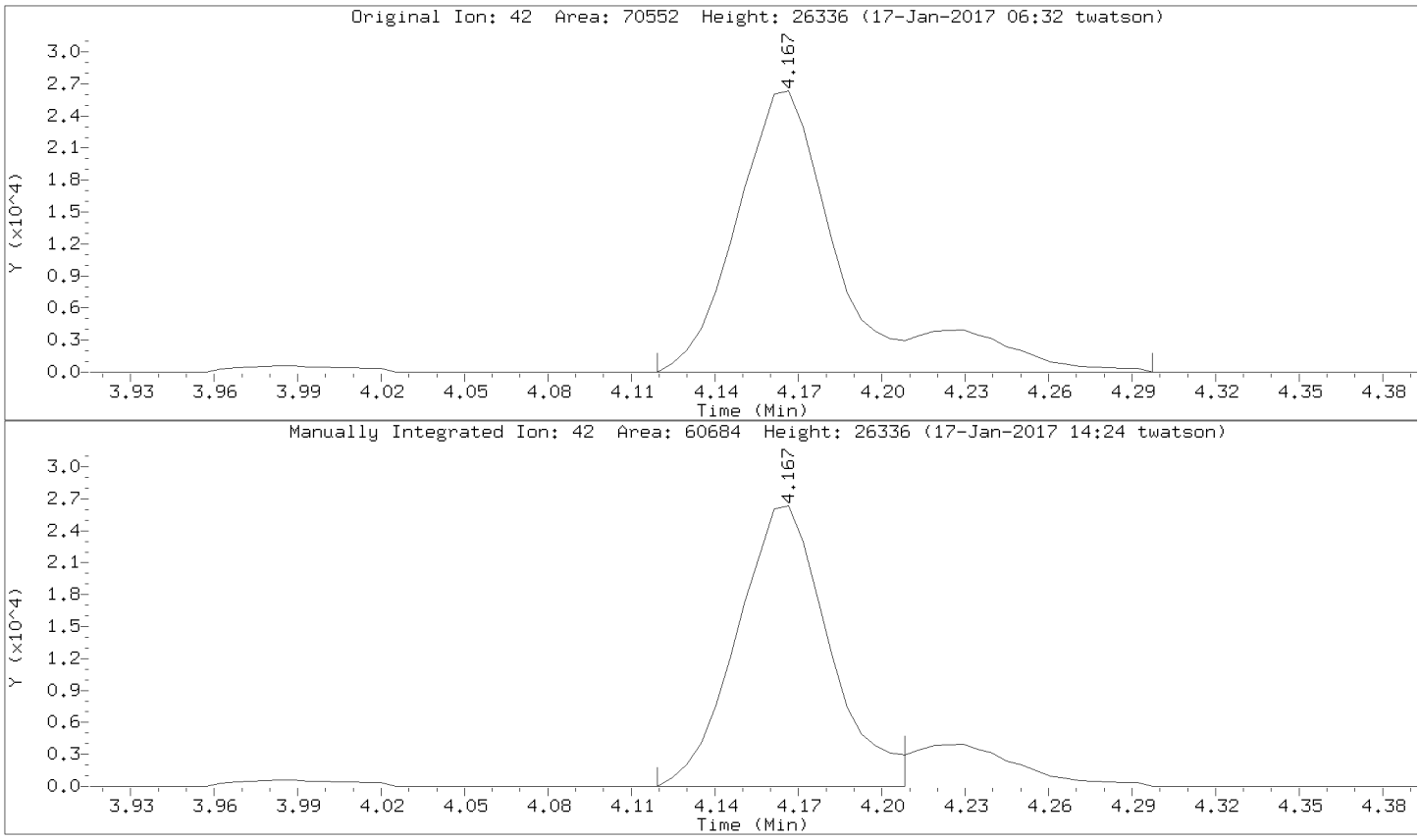
Injection Date: 16-JAN-2017 16:36
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL7,140020:0



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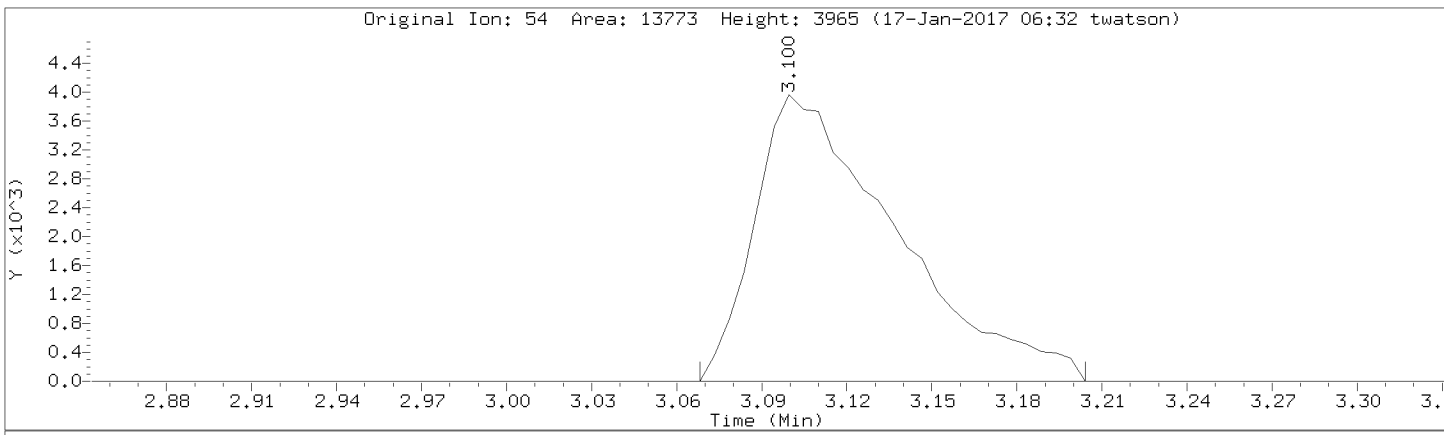
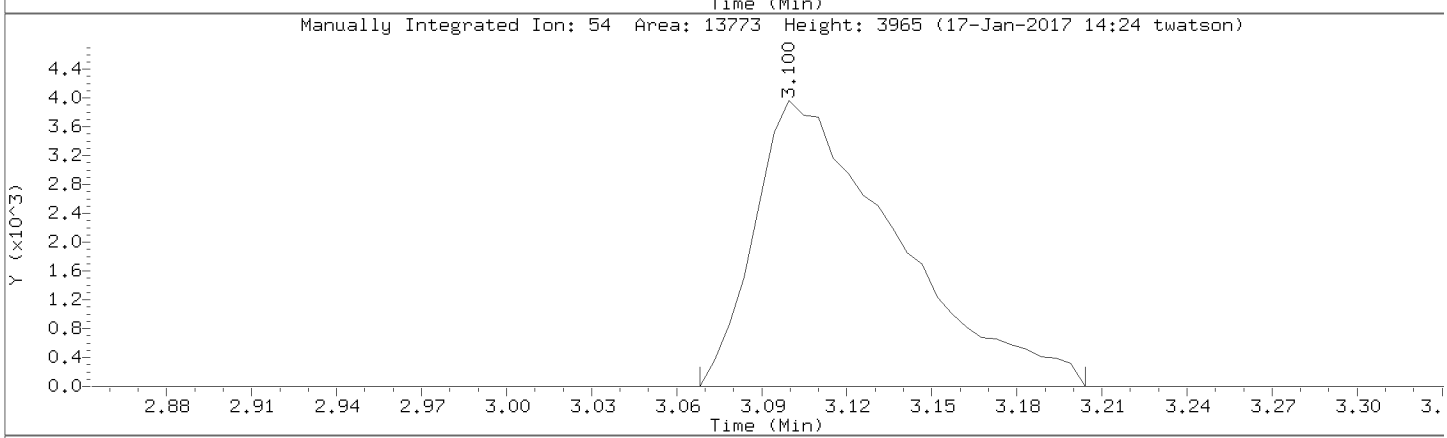
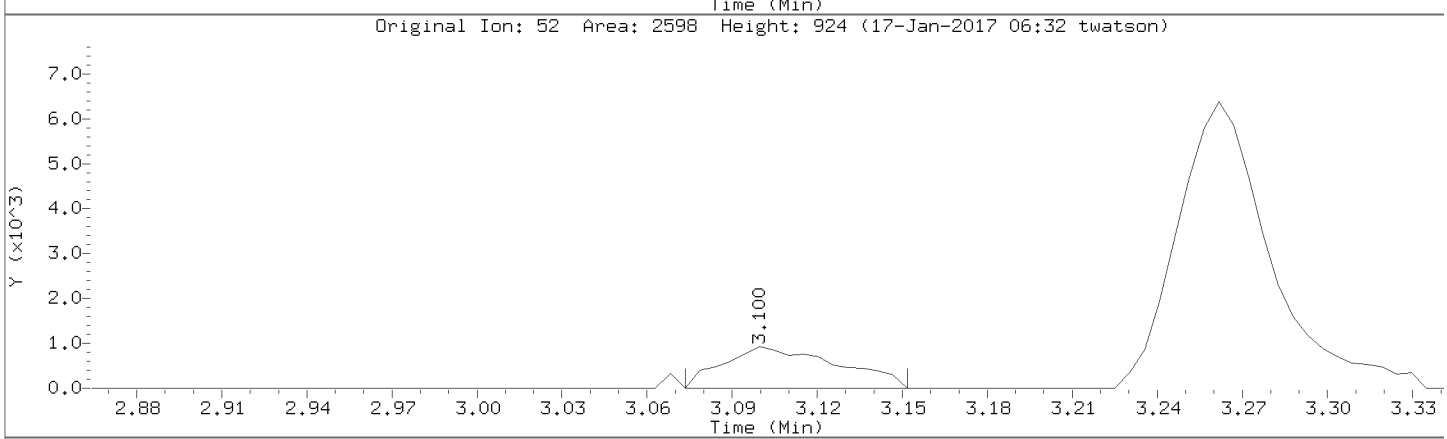
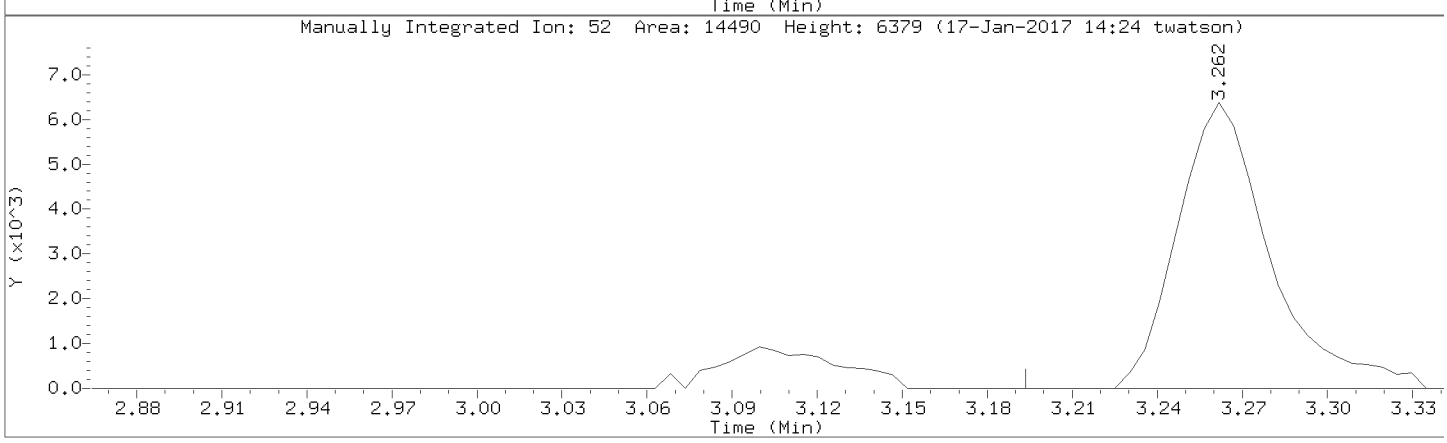
Injection Date: 16-JAN-2017 16:36
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL7,140020:0

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0









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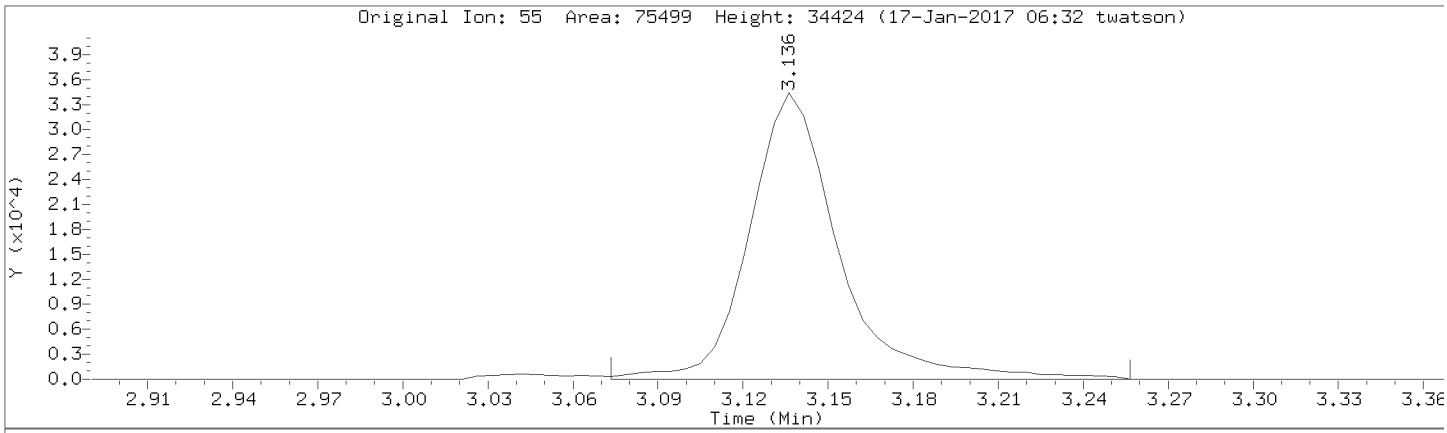
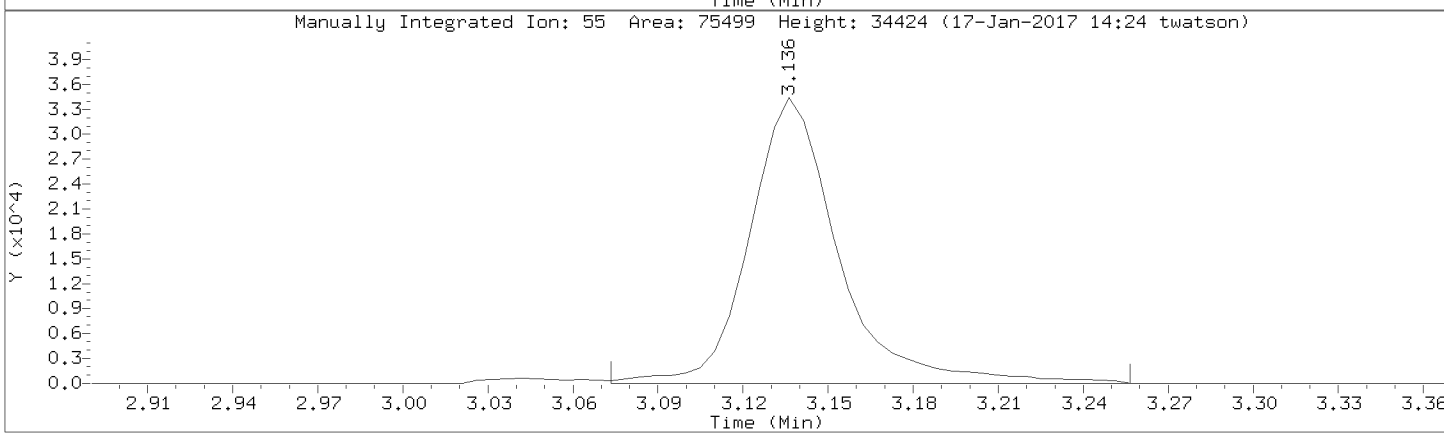




Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a08cal8.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a08cal8.d
Lab Smp Id: 8260-CAL8,140021:0 Client Smp ID: 8260-CAL8,140021:0
Inj Date : 16-JAN-2017 17:14
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-cal8,140021:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 04-JAN-2017 18:58 Cal File: a08cal8.d
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.018	1.023	(0.229)	185057	300.000	324	
2 Chloromethane	50	1.148	1.148	(0.258)	265570	300.000	308(M)	LT
3 Vinyl Chloride	62	1.154	1.159	(0.259)	224736	300.000	337	
4 Bromomethane	94	1.300	1.316	(0.292)	79049	300.000	294	
5 Chloroethane	64	1.347	1.363	(0.303)	78751	300.000	277	
6 Trichlorofluoromethane	101	1.473	1.488	(0.331)	226354	300.000	298	
7 Diethyl ether	74	1.614	1.619	(0.363)	71816	300.000	280	
8 1,2-dichlorotrifluoroethane	67	1.629	1.635	(0.366)	205782	300.000	281	
9 Acrolein	56	1.692	1.697	(0.380)	389145	6000.00	6150	
10 1,1,2trichlorotrifluoroethane	101	1.739	1.755	(0.391)	201657	300.000	315	
11 1,1-Dichloroethene	96	1.745	1.760	(0.392)	168181	300.000	308	
12 Acetone	43	1.765	1.771	(0.397)	266280	1500.00	1440	
13 Iodomethane	142	1.844	1.854	(0.415)	341147	600.000	628	
14 Carbon Disulfide	76	1.891	1.907	(0.425)	531477	300.000	272	
20 Methyl Acetate	43	1.943	1.948	(0.437)	171453	300.000	322	
15 Acetonitrile	39	1.959	1.969	(0.440)	399143	300.000	254	
16 allyl chloride	41	1.959	1.969	(0.440)	652889	600.000	539	
17 Methylene Chloride	84	2.037	2.048	(0.458)	190315	300.000	311	
18 tert-Butyl Alcohol	59	2.095	2.090	(0.471)	45799	600.000	684(M)	NI
19 Acrylonitrile	53	2.189	2.189	(0.492)	278312	1200.00	1200	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.498)	491276	300.000	295	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a08cal8.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.226	2.236	(0.500)	180913	300.000	304	
23 n-Hexane	57	2.419	2.430	(0.544)	355721	300.000	304	
25 Vinyl Acetate	43	2.540	2.545	(0.571)	1665360	1200.00	1180	
26 1,1-Dichloroethane	63	2.555	2.560	(0.574)	345198	300.000	277	
28 Chloroprene	53	2.608	2.623	(0.586)	324901	300.000	294	
29 2-Butanone	43	3.047	3.047	(0.685)	318208	1500.00	1270	
30 1,2-Dichloroethene (cis)	96	3.063	3.073	(0.688)	200631	300.000	304	
31 2,2-Dichloropropane	77	3.068	3.078	(0.690)	277330	300.000	302	
27 Ethyl Acetate	88	3.094	3.094	(0.696)	52668	2400.00	2700	
32 Propionitrile	54	3.110	3.104	(0.699)	31983	300.000	332(M)	WP
38 Methacrylonitrile	41	3.261	3.266	(0.733)	121596	300.000	307	
33 Bromochloromethane	49	3.314	3.324	(0.745)	173254	300.000	279	
34 Tetrahydrofuran	42	3.335	3.340	(0.750)	63357	300.000	325	
35 Chloroform	83	3.429	3.444	(0.771)	342664	300.000	292	
36 1,1,1-Trichloroethane	97	3.617	3.633	(0.813)	297894	300.000	303	
$ 37 Dibromofluoromethane (S)	113	3.622	3.627	(0.814)	31783	50.0000	49.1	
39 Cyclohexane	56	3.706	3.727	(0.833)	372386	300.000	286	
151 n-butyl chloride	56	3.779	3.789	(0.850)	454891	300.000	302	
40 Carbon Tetrachloride	117	3.821	3.831	(0.859)	260577	300.000	313	
41 1,1-Dichloropropene	75	3.826	3.831	(0.860)	281431	300.000	311	
42 Benzene	78	4.067	4.077	(0.914)	791318	300.000	290	
43 1,2-Dichloroethane	62	4.156	4.161	(0.934)	264454	300.000	302	
24 Isobutyl alcohol	43	4.171	4.171	(0.938)	1608924	300.000	297(M)	GT
44 2,2,4-Trimethylpentane	57	4.229	4.239	(0.951)	872697	300.000	298	
* 46 Fluorobenzene (IS)	96	4.449	4.454	(1.000)	129206	50.0000		
47 Trichloroethene	95	4.883	4.893	(1.098)	211181	300.000	307	
48 Methylcyclohexane	55	5.144	5.155	(1.156)	348565	300.000	306	
49 1,2-Dichloropropane	63	5.181	5.191	(1.165)	230389	300.000	306	
51 1,4-Dioxane	88	5.285	5.285	(1.188)	41628	6000.00	5920	
50 Dibromomethane	93	5.280	5.285	(1.187)	122147	300.000	311	
52 Methyl methacrylate	69	5.280	5.285	(1.187)	125247	300.000	325	
53 Bromodichloromethane	83	5.495	5.500	(1.235)	283492	300.000	301	
54 2-Chloroethyl vinyl ether	63	5.835	5.840	(0.775)	247316	600.000	628	
55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.794)	354382	300.000	307	
56 4-Methyl-2-Pentanone	43	6.148	6.148	(0.817)	1123602	1500.00	1470	
$ 57 Toluene-d8 (S)	98	6.258	6.263	(0.831)	130045	50.0000	50.1	
58 Toluene	91	6.331	6.331	(0.841)	856024	300.000	276	
59 trans-1,3-Dichloropropene	75	6.593	6.598	(0.876)	305726	300.000	308	
60 Ethyl Methacrylate	69	6.661	6.661	(0.885)	242840	300.000	306	
61 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	152010	300.000	304	
62 Tetrachloroethene	166	6.823	6.828	(0.906)	234724	300.000	283	
63 1,3-Dichloropropane	76	6.907	6.907	(0.917)	297867	300.000	292	
64 2-Hexanone	43	6.959	6.959	(0.924)	805862	1500.00	1430	
65 Dibromochloromethane	129	7.085	7.090	(0.941)	217233	300.000	298	
66 1,2-Dibromoethane	107	7.174	7.173	(0.953)	189687	300.000	311	
* 67 Chlorobenzene-D5 (IS)	117	7.529	7.529	(1.000)	106935	50.0000		
68 Chlorobenzene	112	7.550	7.555	(1.003)	594985	300.000	283	
69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	225042	300.000	292	
70 Ethylbenzene	106	7.629	7.628	(1.013)	320493	300.000	272	
71 m&p-Xylene	106	7.728	7.728	(1.026)	761990	600.000	548	
72 o-Xylene	106	7.984	7.984	(1.060)	383911	300.000	264	
73 Styrene	104	8.000	8.000	(1.063)	682969	300.000	270	
74 Bromoform	173	8.120	8.125	(0.901)	155702	300.000	314	
75 Isopropylbenzene	105	8.225	8.225	(1.092)	1045888	300.000	263	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a08cal8.d
Report Date: 17-Jan-2017 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.107)	53457	50.0000	49.1	
77 Bromobenzene	77	8.418	8.418	(1.118)	429647	300.000	273	
78 1,1,2,2-Tetrachloroethane	83	8.424	8.423	(0.934)	264752	300.000	310	
79 trans-1,4-Dichloro-2-butene	53	8.445	8.444	(1.122)	78103	300.000	310	
80 1,2,3-Trichloropropane	110	8.455	8.455	(0.938)	67735	300.000	328	
81 n-Propylbenzene	91	8.481	8.481	(0.941)	1294735	300.000	288	
82 2-Chlorotoluene	91	8.533	8.538	(0.947)	755948	300.000	285	
83 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	902379	300.000	283	
84 4-Chlorotoluene	126	8.607	8.612	(0.955)	266890	300.000	289	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	843569	300.000	303	
86 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	935051	300.000	280	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	1233750	300.000	277	
88 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	518534	300.000	285	
89 p-Isopropyltoluene	119	8.978	8.983	(0.996)	1013983	300.000	286	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.014	(1.000)	60703	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	538231	300.000	291	
92 n-Butylbenzene	91	9.198	9.203	(1.020)	992093	300.000	286	
93 1,2-Dichlorobenzene	146	9.219	9.218	(1.023)	508569	300.000	286	
94 1,2-Dibromo-3-chloropropane	155	9.627	9.632	(1.068)	51535	300.000	331	
95 1,2,4-Trichlorobenzene	180	10.045	10.050	(1.114)	416999	300.000	298	
96 Hexachlorobutadiene	225	10.108	10.118	(1.121)	240722	300.000	288	
97 Naphthalene	128	10.191	10.196	(1.131)	917012	300.000	292	
98 1,2,3-Trichlorobenzene	180	10.312	10.317	(1.144)	389715	300.000	281	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	466665	300.000	327	
150 1-Methylnaphthalene	142	10.971	10.981	(1.217)	405832	300.000	316	

QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

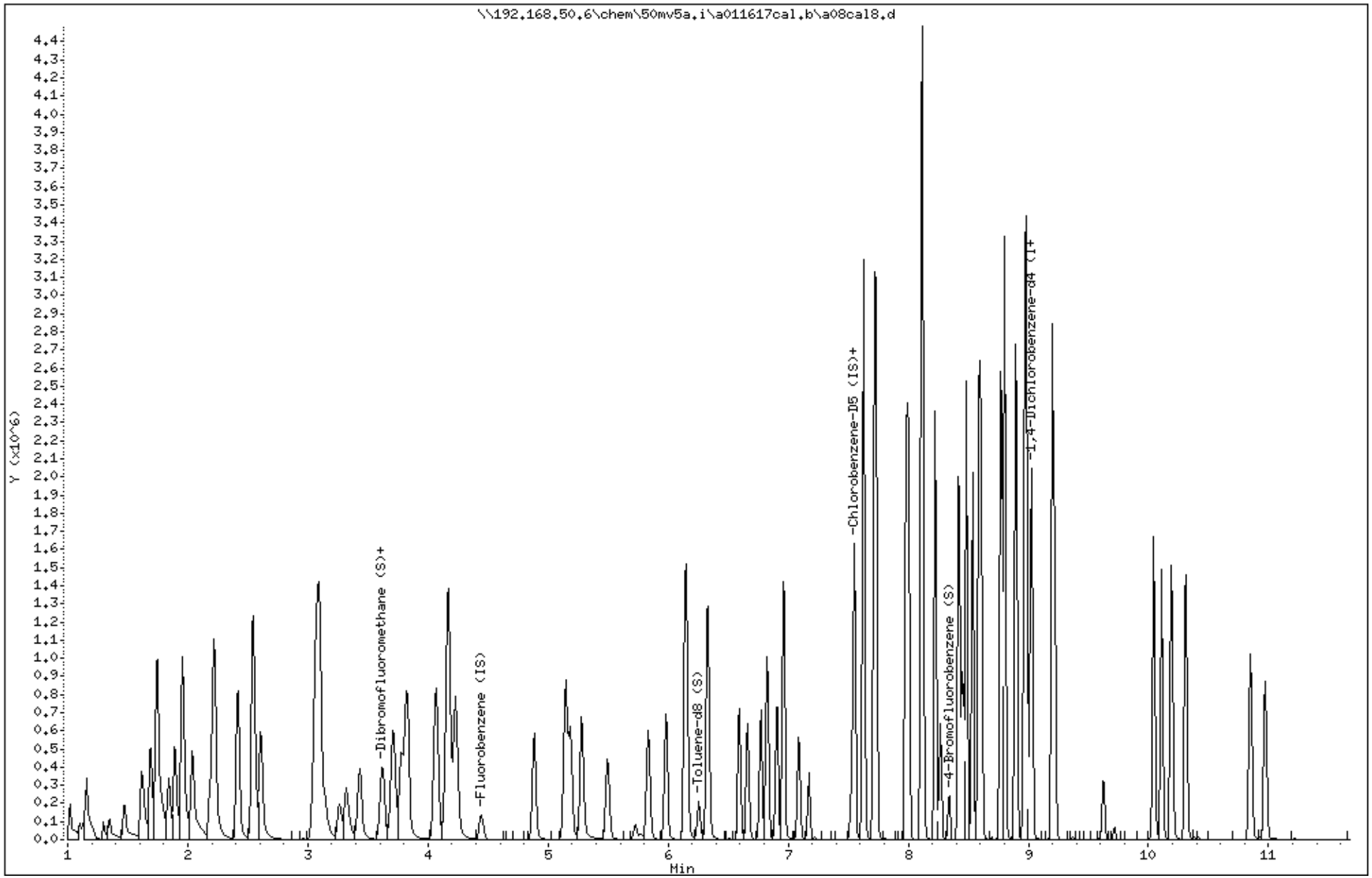
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a08cal8.d
Date : 16-JAN-2017 17:14
Client ID: 8260-CAL8,140021:0
Sample Info: 8260-CAL8,140021:0

Instrument: 50mv5a.i

Operator: TMW

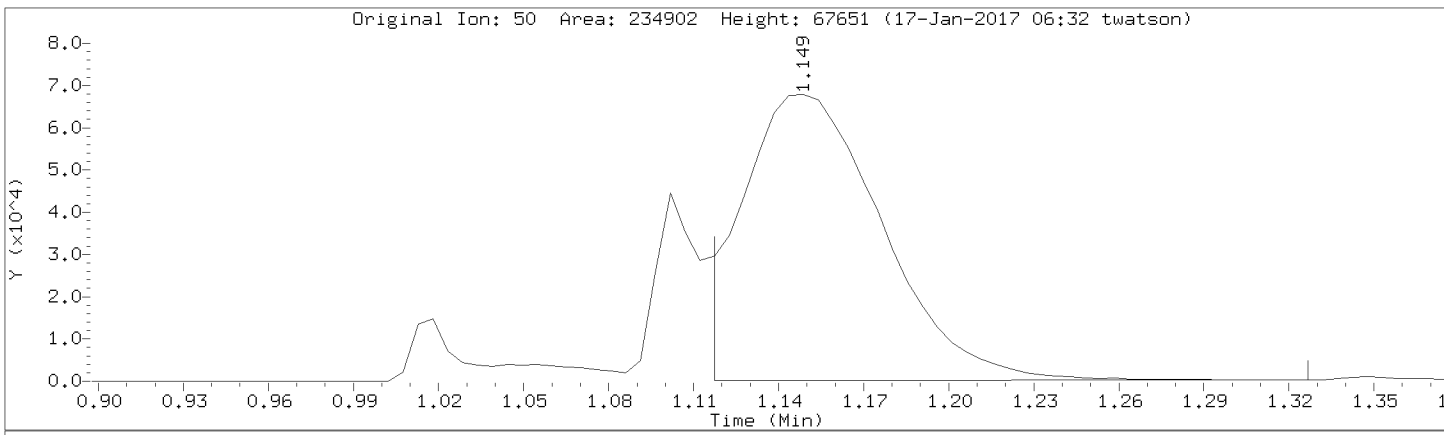
Column phase: DB-624

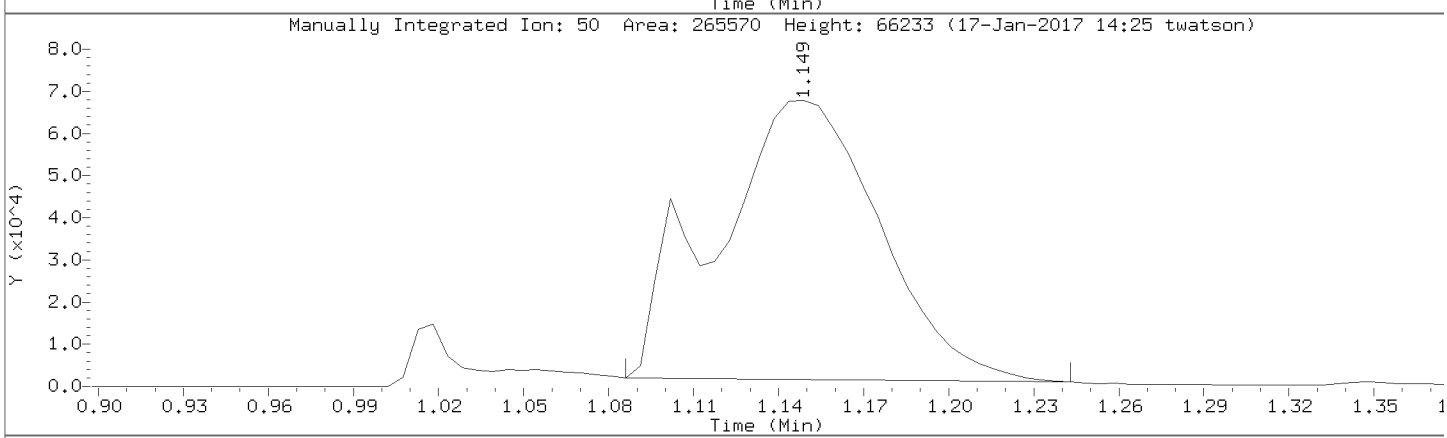
Column diameter: 0.18

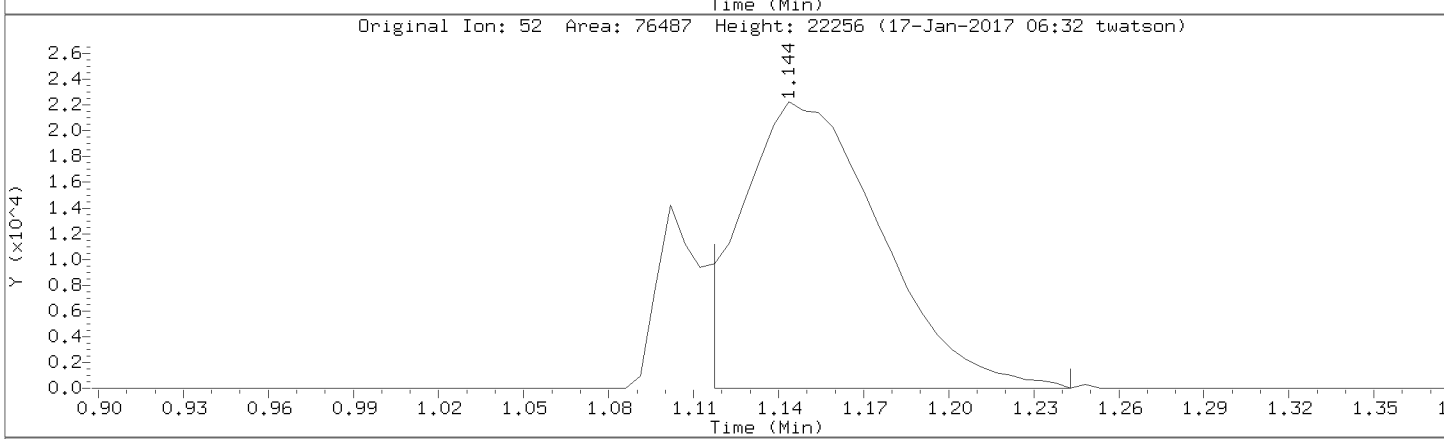


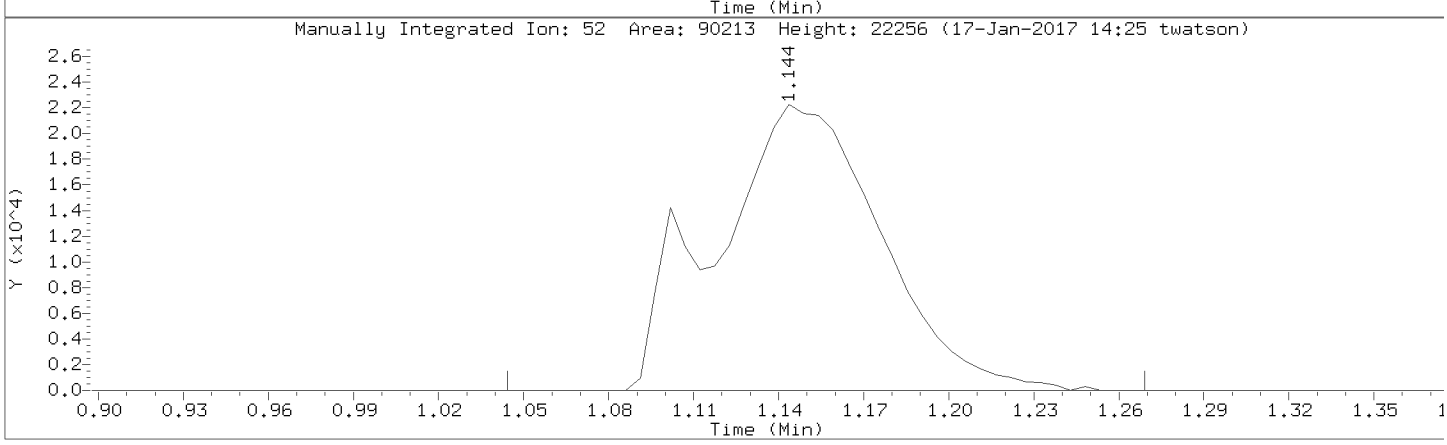
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a08cal8.d
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0

Compound: Chloromethane Review Code: LT
CAS Number: 74-87-3









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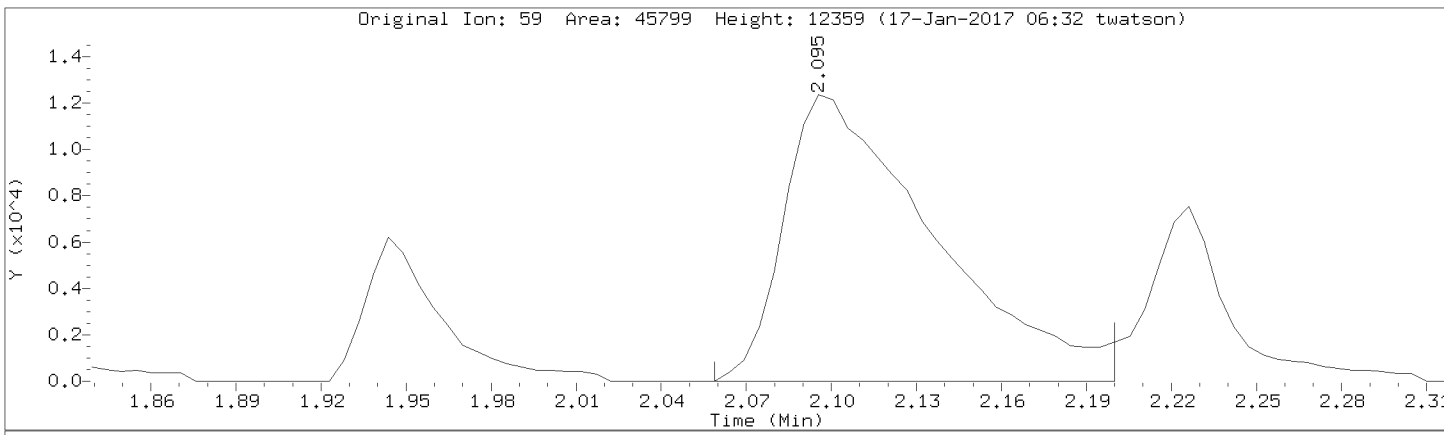
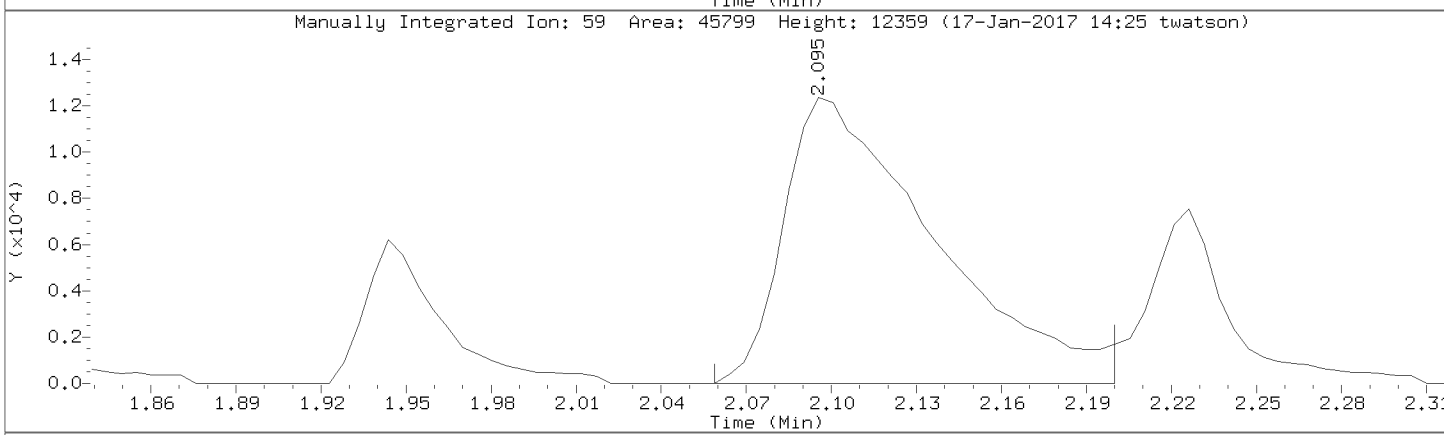
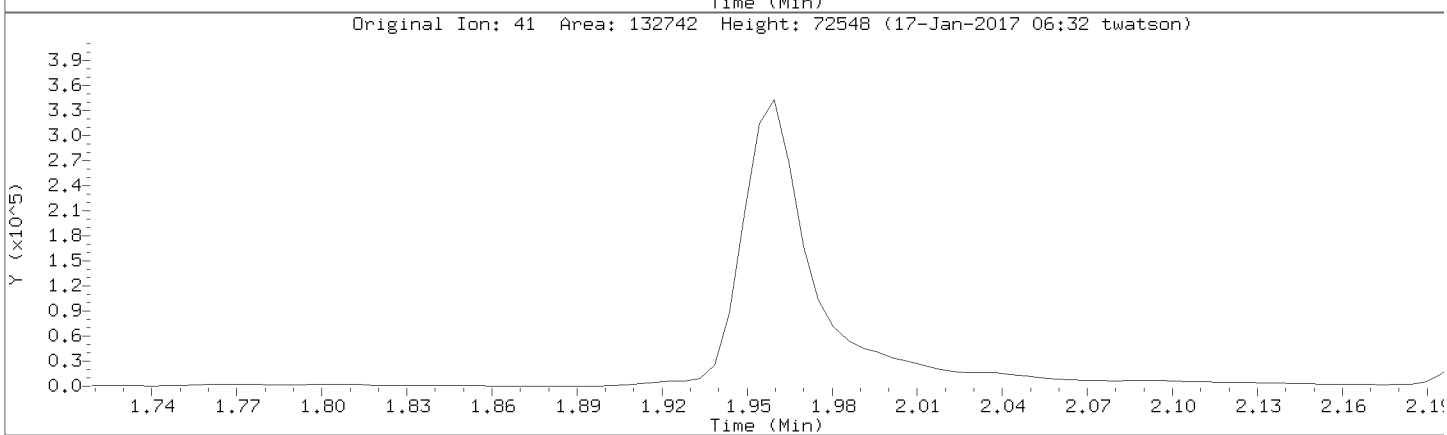
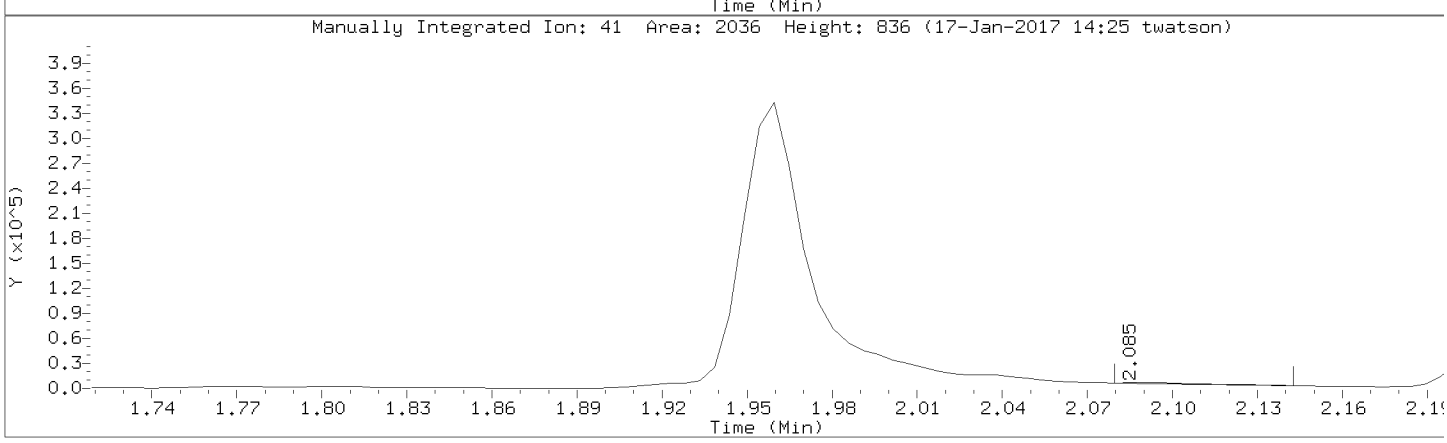
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0



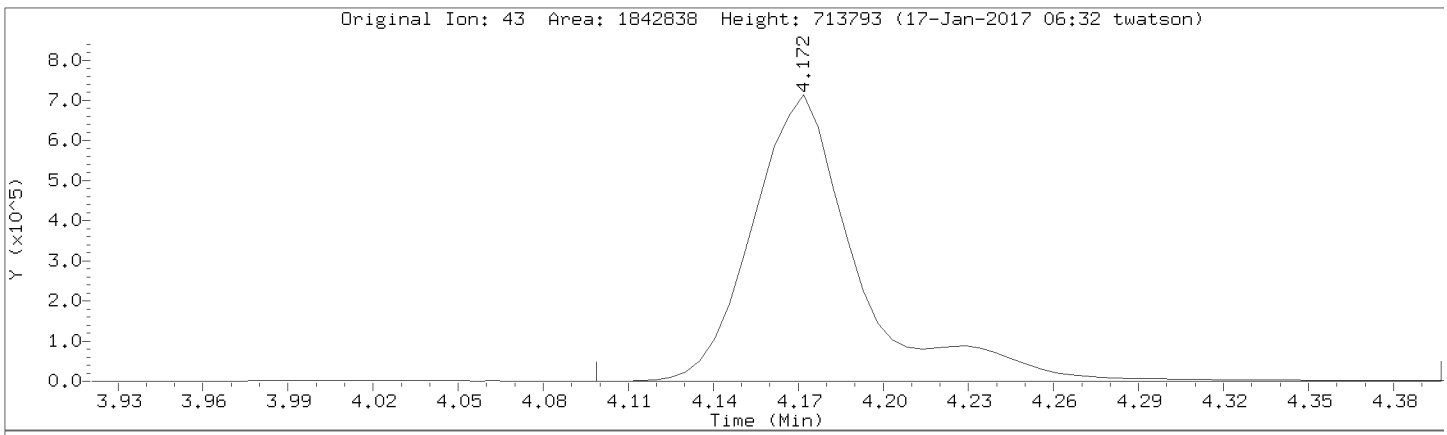


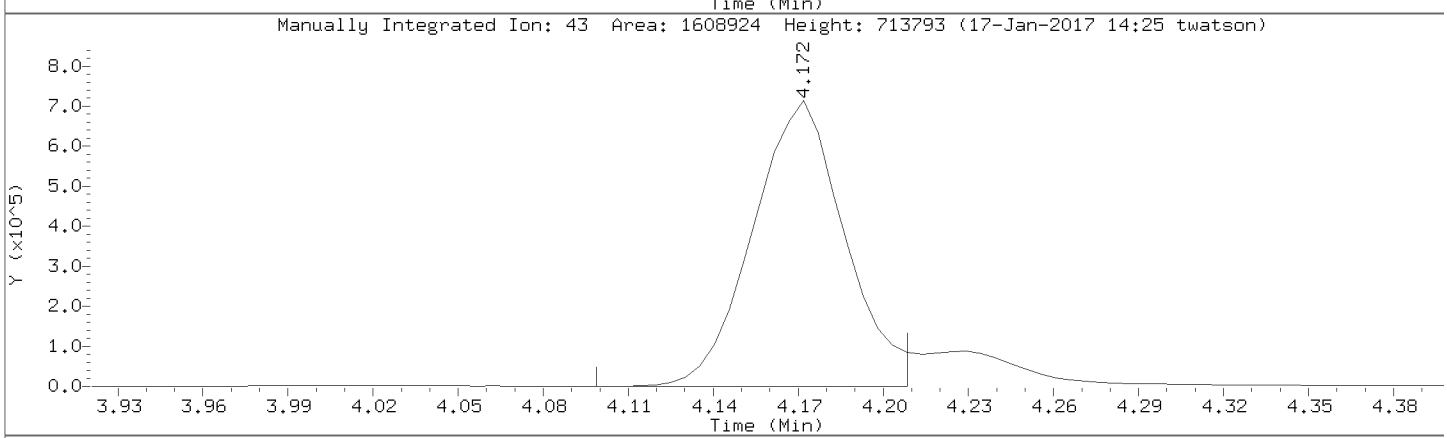


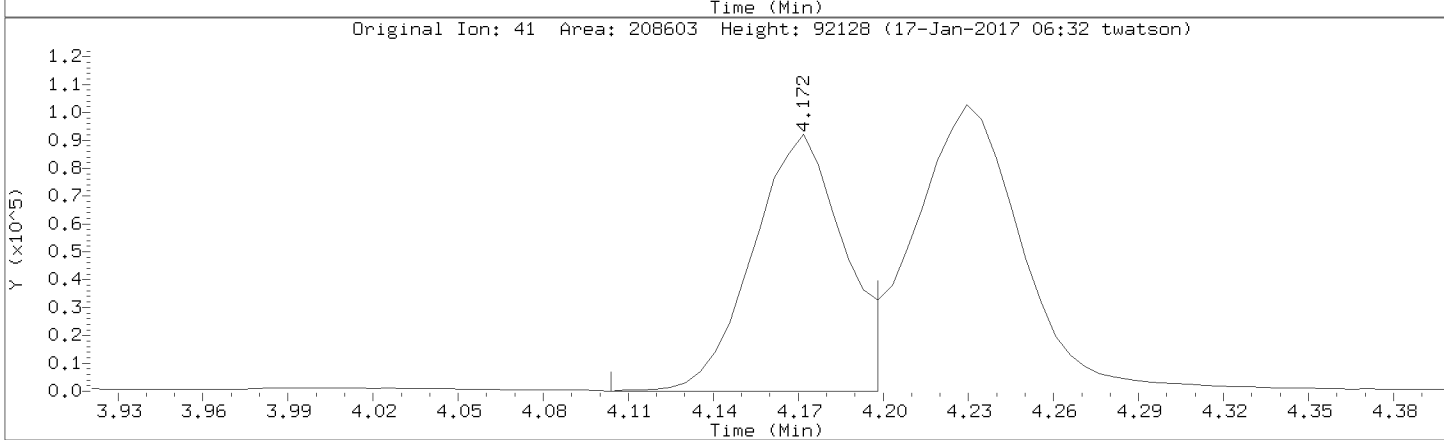


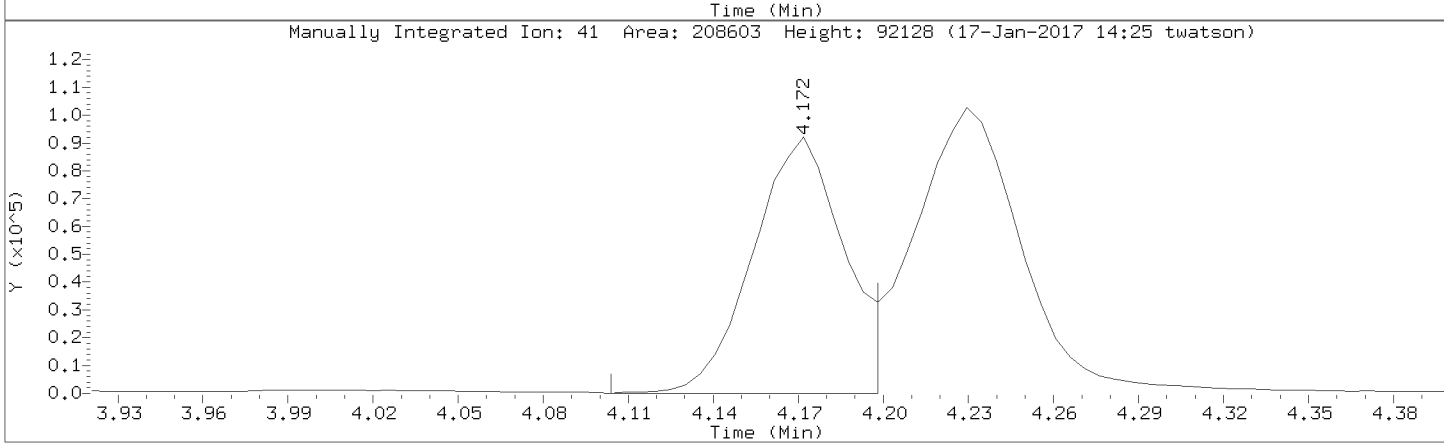
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a08cal8.d
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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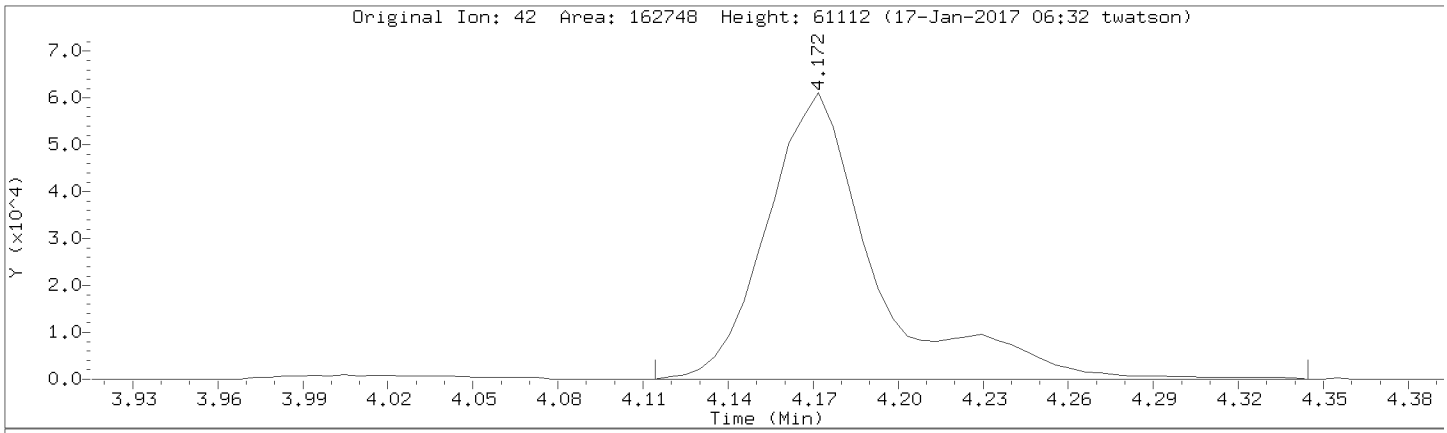
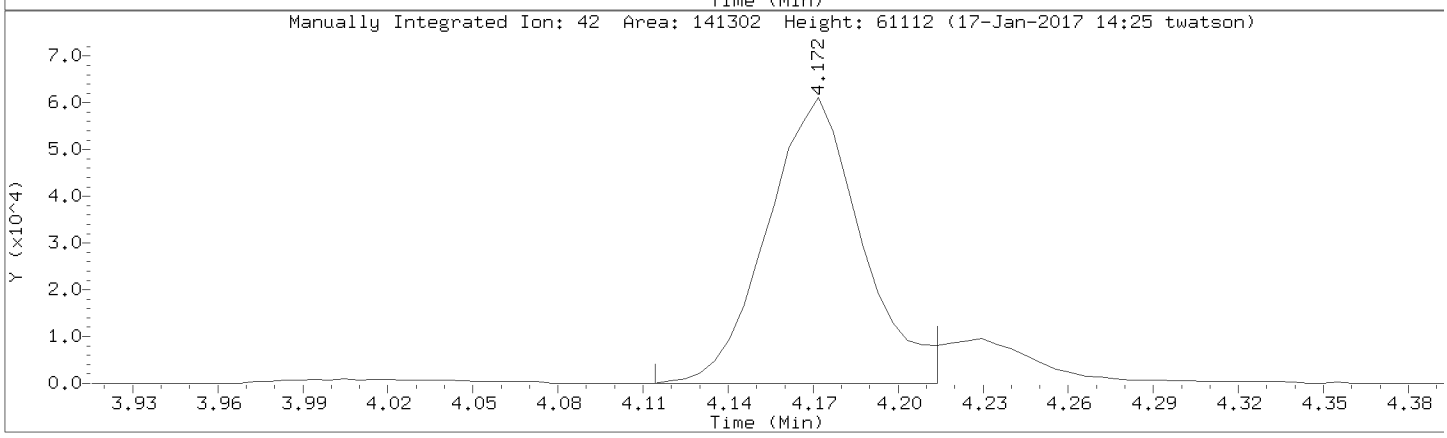
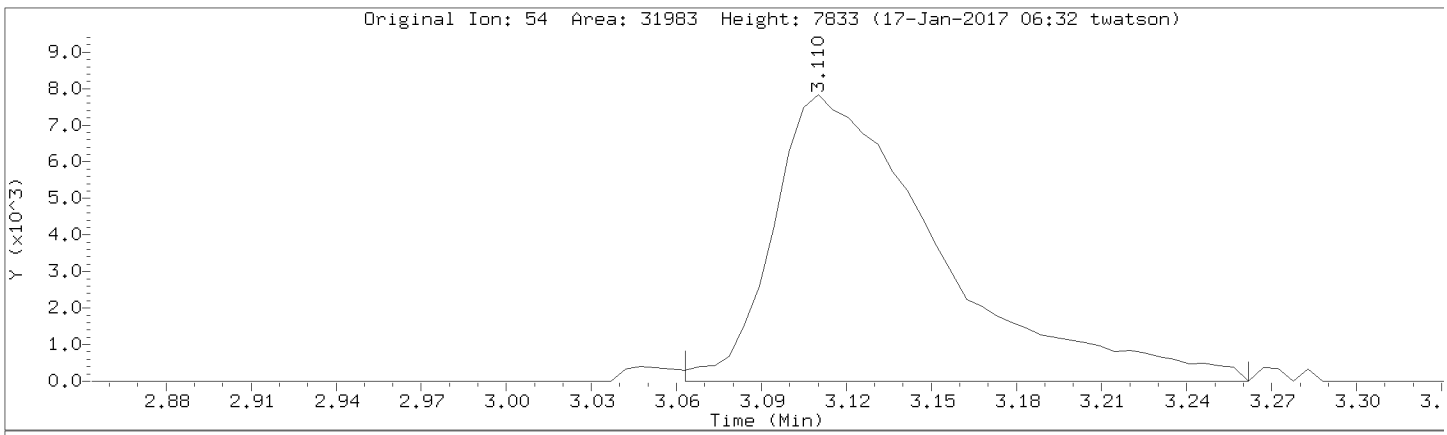
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0

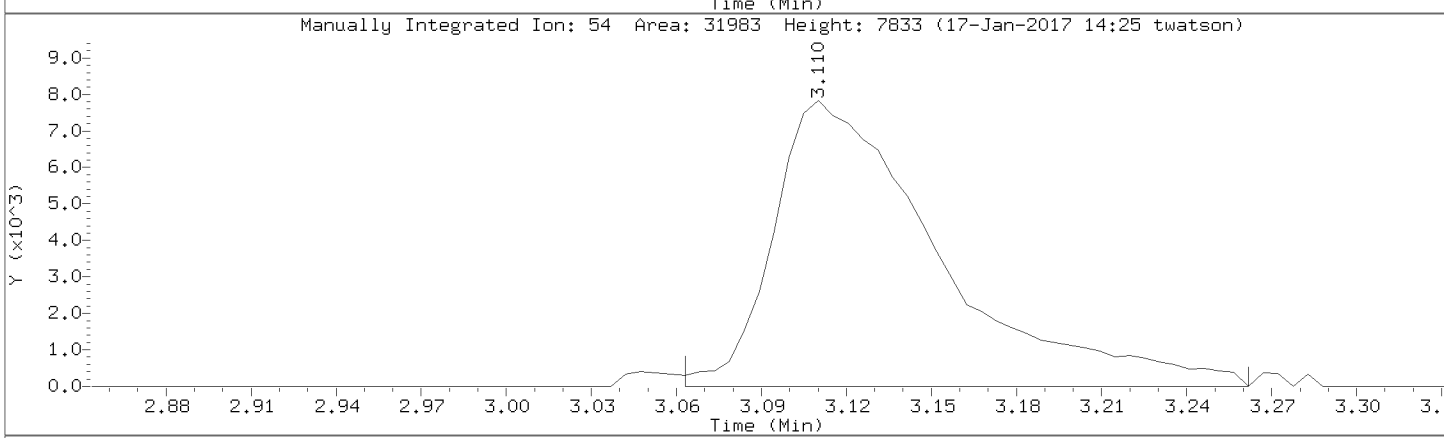


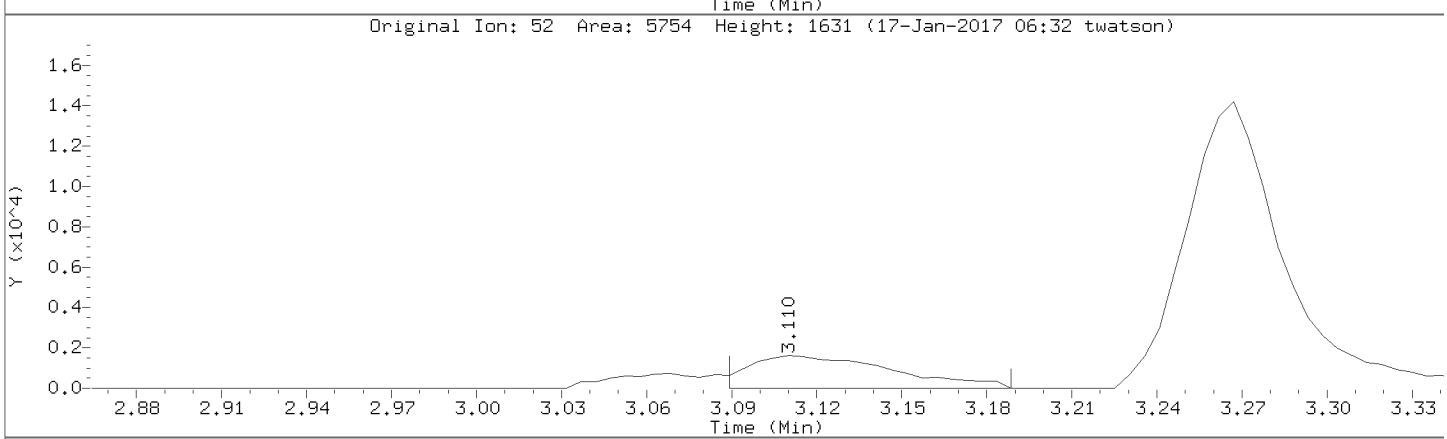


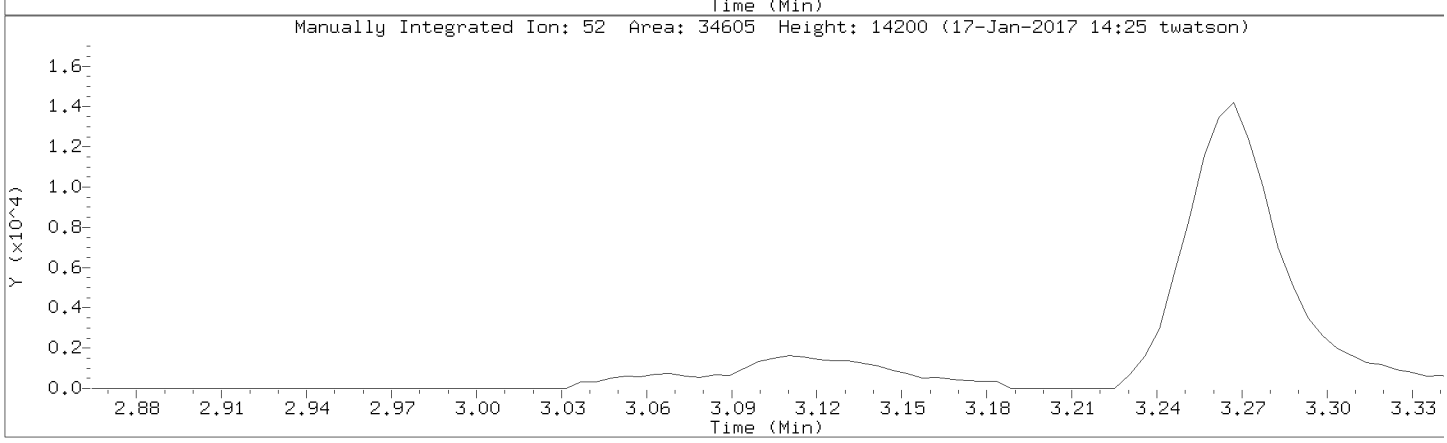
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a08cal8.d
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

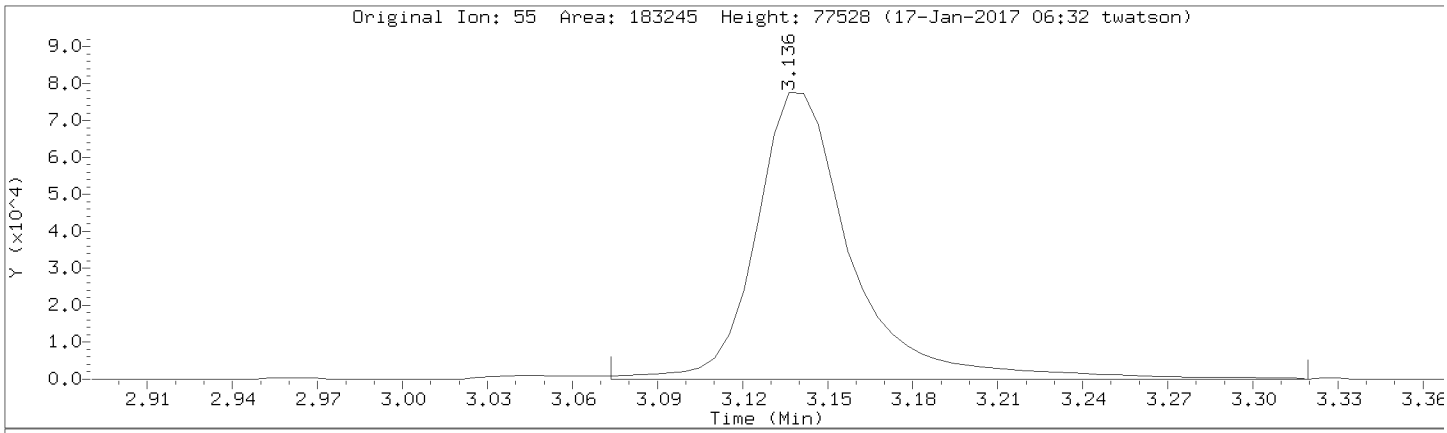


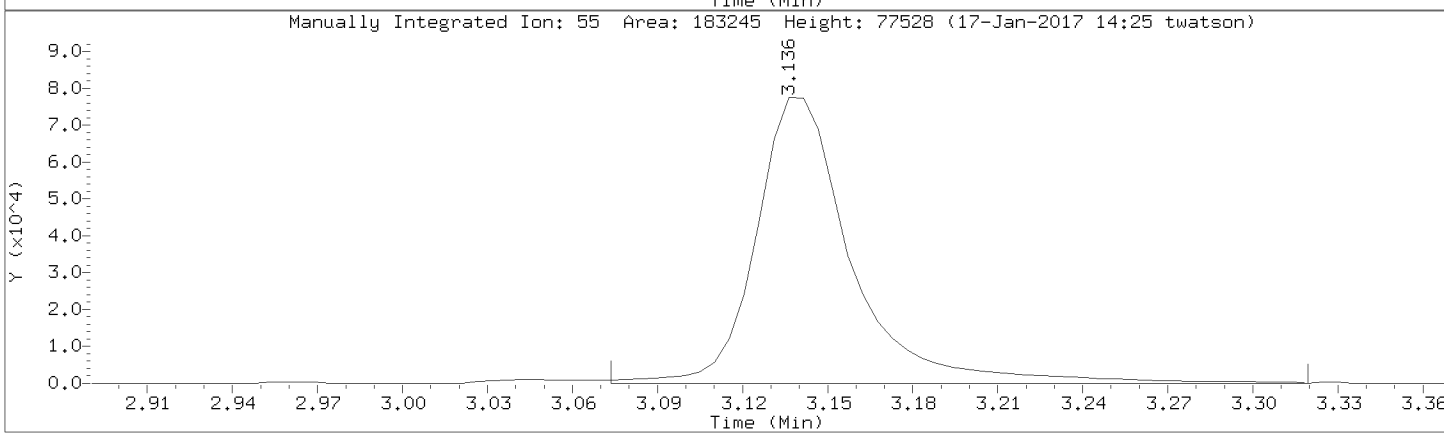






Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a08cal8.d
Injection Date: 16-JAN-2017 17:14
Instrument: 50mv5a.i
Lab Sample ID: 8260-CAL8,140021:0





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b01cal1.d
Lab Smp Id: 8260-CAL1,139196:0 Client Smp ID: 8260-CAL1,139196:0
Inj Date : 04-JAN-2017 14:54
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal1,139196:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
2 Chloromethane	50	1.127	1.122	(0.253)	1383	1.00000	1.64	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	298	1.00000	0.396(QM)	NI
7 Diethyl ether	74	1.635	1.629	(0.366)	229	1.00000	0.785(Q)	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	900	1.00000	1.28	
9 Acrolein	56	1.713	1.708	(0.384)	774	20.0000	14.4	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	757	1.00000	1.10	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	639	1.00000	1.14	
12 Acetone	43	1.781	1.781	(0.399)	2236	5.00000	17.8	
13 Iodomethane	142	1.870	1.860	(0.419)	1113	2.00000		
16 Acetonitrile	39	1.985	1.975	(0.445)	1471	1.00000	1.40	
17 allyl chloride	41	1.985	1.975	(0.445)	1838	2.00000	2.67	
20 Acrylonitrile	53	2.205	2.200	(0.494)	417	4.00000	3.08	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	1952	1.00000	1.20(TM)	WP
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.504)	661	1.00000	1.10	
28 1,2-Dichloroethene (cis)	96	3.089	3.083	(0.692)	706	1.00000	1.08(Q)	
34 Chloroform	83	3.455	3.450	(0.774)	1663	1.00000	1.43	
$ 36 Dibromofluoromethane (S)	113	3.643	3.638	(0.816)	45249	50.0000	52.0	
37 Cyclohexane	56	3.732	3.727	(0.836)	775	1.00000	0.983(Q)	
38 n-butyl chloride	56	3.800	3.795	(0.851)	1039	1.00000	1.06	
41 Benzene	78	4.088	4.082	(0.916)	3209	1.00000	1.29(M)	NI
44 2,2,4-Trimethylpentane	57	4.245	4.245	(0.951)	2315	1.00000	1.24	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
* 45 Fluorobenzene (IS)	96	4.464	4.459	(1.000)	142452	50.0000		
46 Trichloroethene	95	4.893	4.893	(1.096)	722	1.00000	1.10	
55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	2682	5.00000	6.27	
$ 56 Toluene-d8 (S)	98	6.264	6.263	(0.832)	152219	50.0000	50.3	
57 Toluene	91	6.337	6.337	(0.842)	4589	1.00000	1.62	
61 Tetrachloroethene	166	6.828	6.828	(0.907)	978	1.00000	1.15	
64 Dibromochloromethane	129	7.090	7.090	(0.942)	934	1.00000	1.15	
65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	731	1.00000	1.18	
* 66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	118575	50.0000		
67 Chlorobenzene	112	7.550	7.555	(1.003)	2734	1.00000	1.31	
68 1,1,1,2-Tetrachloroethane	131	7.623	7.629	(1.013)	866	1.00000	1.15	
69 Ethylbenzene	106	7.629	7.634	(1.013)	1487	1.00000	1.32	
70 m&p-Xylene	106	7.723	7.728	(1.026)	3632	2.00000	2.62	
71 o-Xylene	106	7.984	7.984	(1.060)	1746	1.00000	1.28	
72 Styrene	104	8.000	8.000	(1.063)	3022	1.00000	1.34	
74 Isopropylbenzene	105	8.225	8.225	(1.092)	4640	1.00000	1.28	
$ 75 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	54960	50.0000	48.8	
76 Bromobenzene	77	8.418	8.418	(1.118)	1628	1.00000	1.28	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	5655	1.00000	1.44	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	3168	1.00000	1.40	
82 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	4212	1.00000	1.43	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	1170	1.00000	1.25	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	3778	1.00000	1.44	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	4566	1.00000	1.50	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	5537	1.00000	1.35	
87 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	2641	1.00000	1.44	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	4953	1.00000	1.47	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	70022	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	2904	1.00000	1.53	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	4352	1.00000	1.45	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	2442	1.00000	1.37	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	2018	1.00000	1.50	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	970	1.00000	1.22	
96 Naphthalene	128	10.197	10.191	(1.131)	4147	1.00000	1.36	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	1923	1.00000	1.53	
98 2,methyl-naphthalene	142	10.856	10.850	(1.204)	2316	1.00000	1.57	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	2105	1.00000	1.57	

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

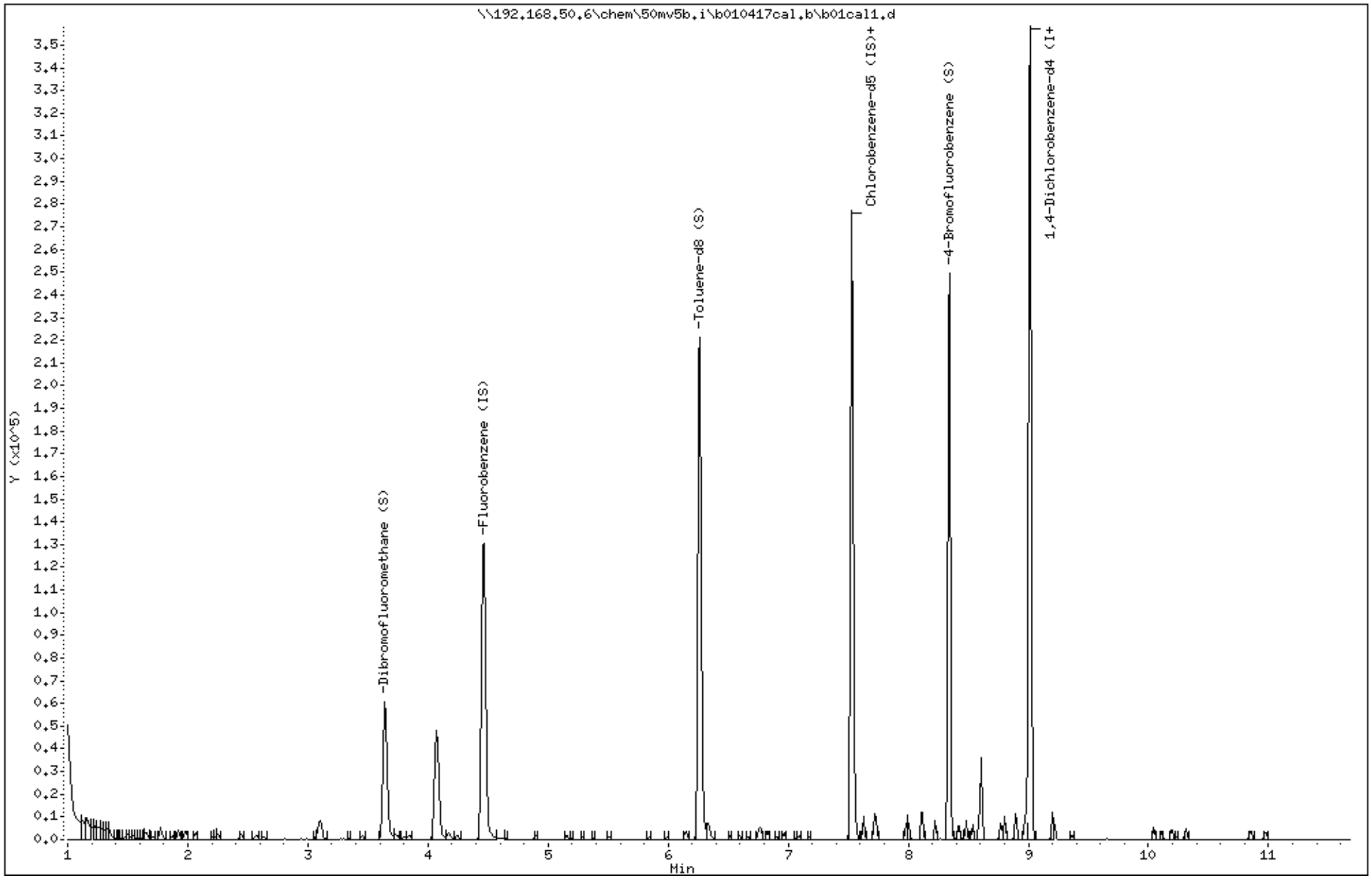
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b01cal1.d
Date : 04-JAN-2017 14:54
Client ID: 8260-CAL1,139196:0
Sample Info: 8260-CAL1,139196:0

Column phase: DB-624

Instrument: 50mv5b.i

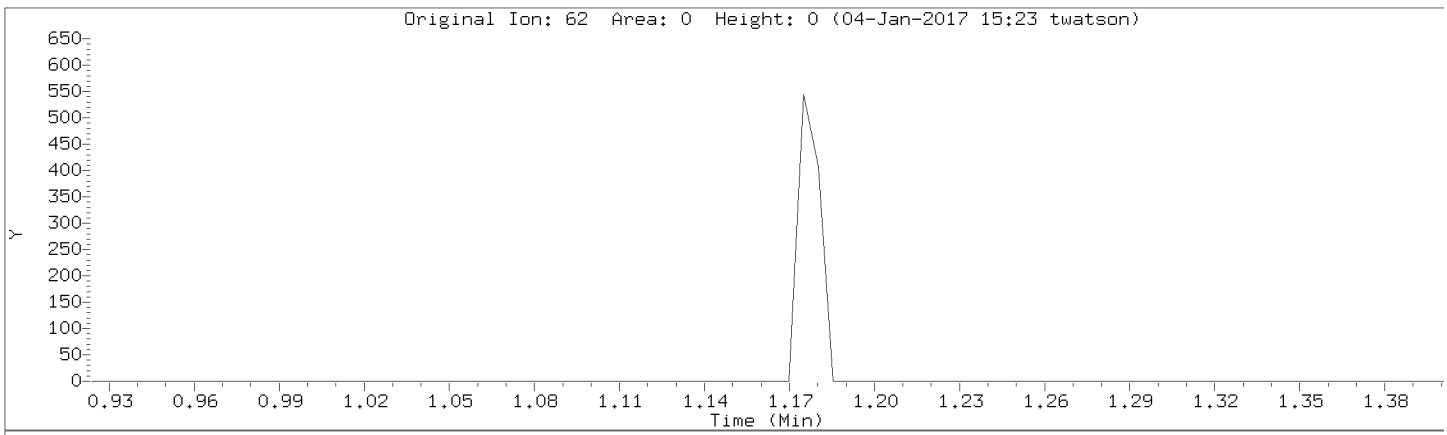
Operator: TMW

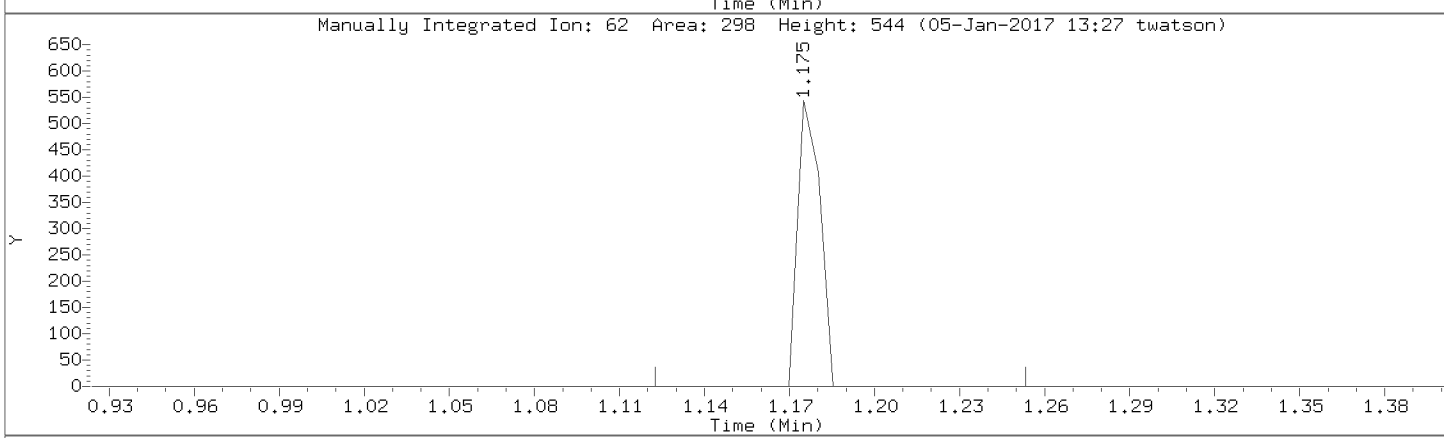
Column diameter: 0.18

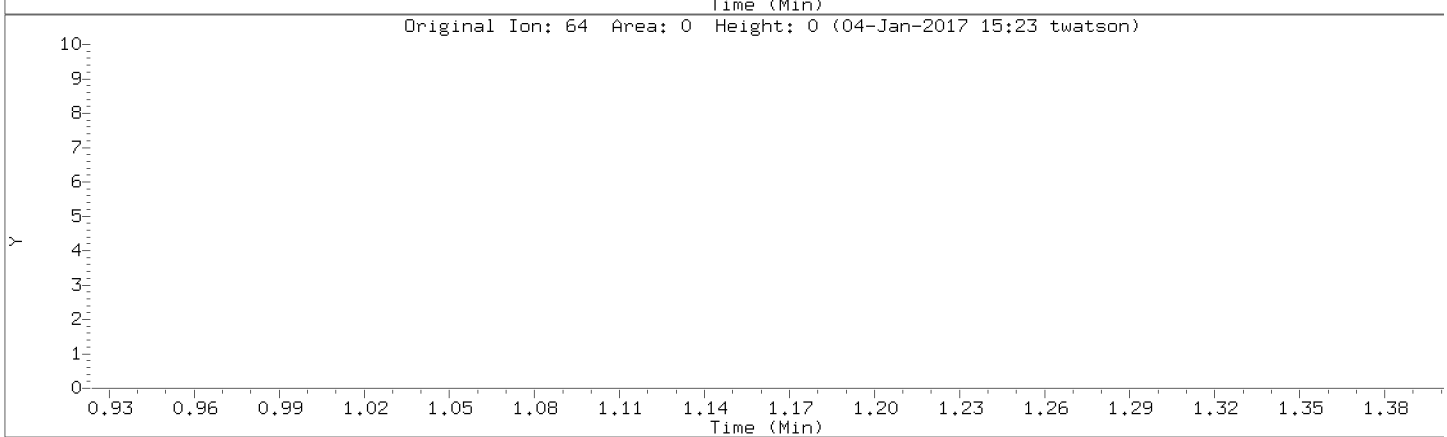


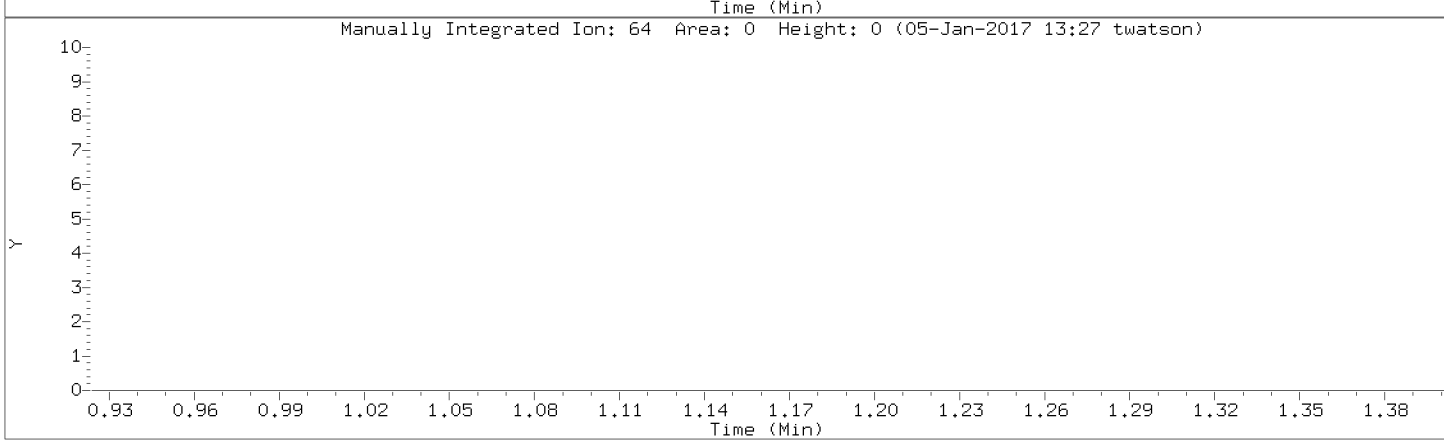
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b01cal1.d
Injection Date: 04-JAN-2017 14:54
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL1,139196:0

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4



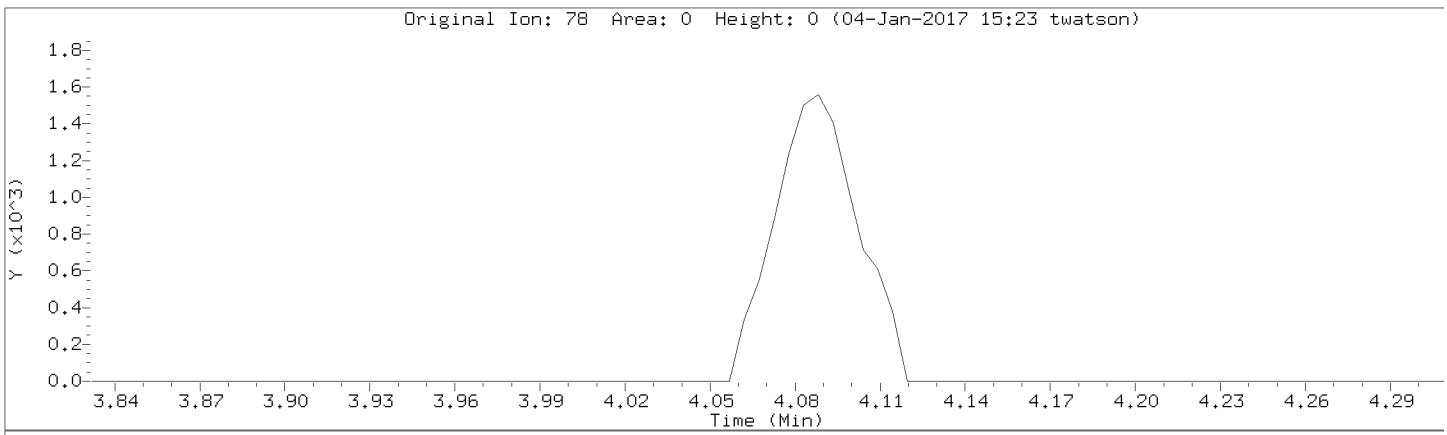


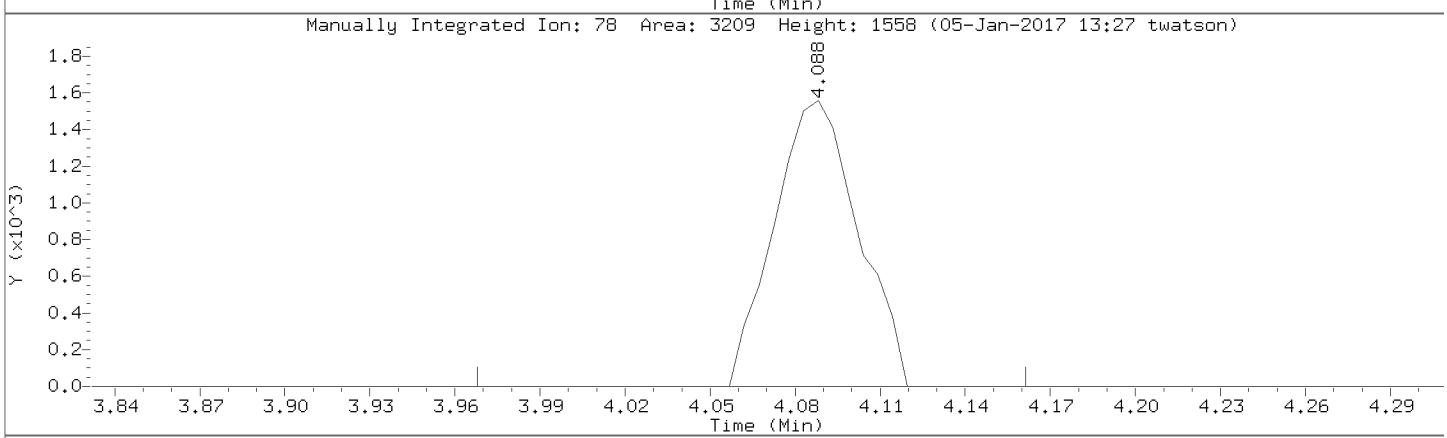


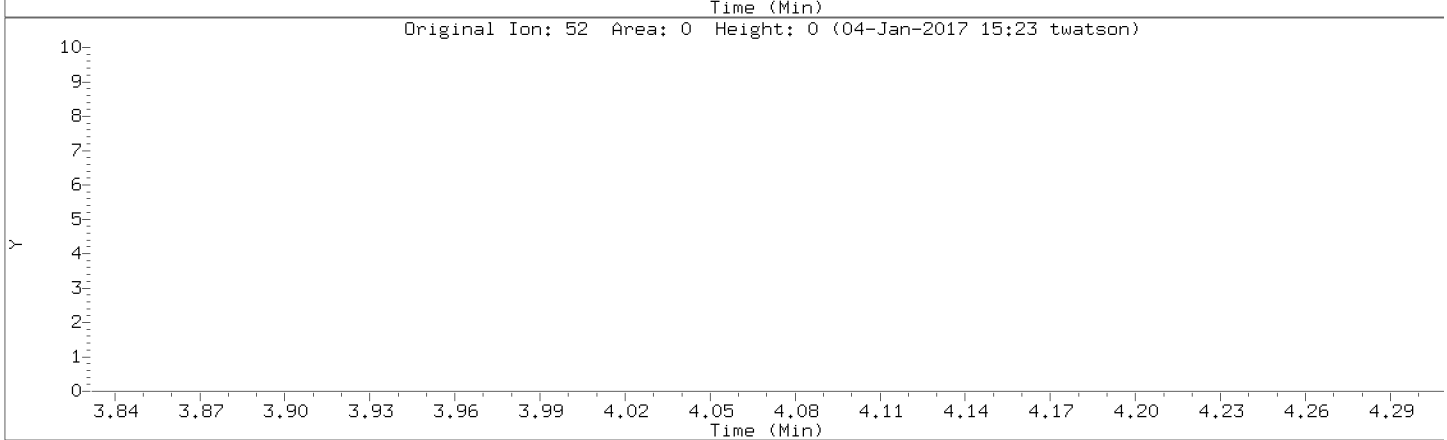


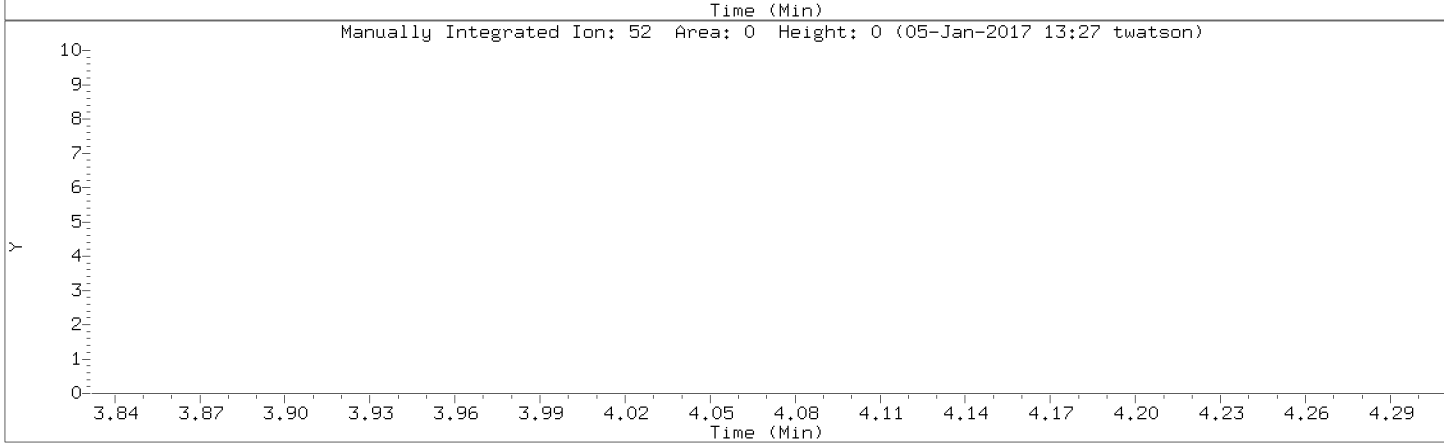
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b01cal1.d
Injection Date: 04-JAN-2017 14:54
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL1,139196:0

Compound: Benzene Review Code: NI
CAS Number: 71-43-2

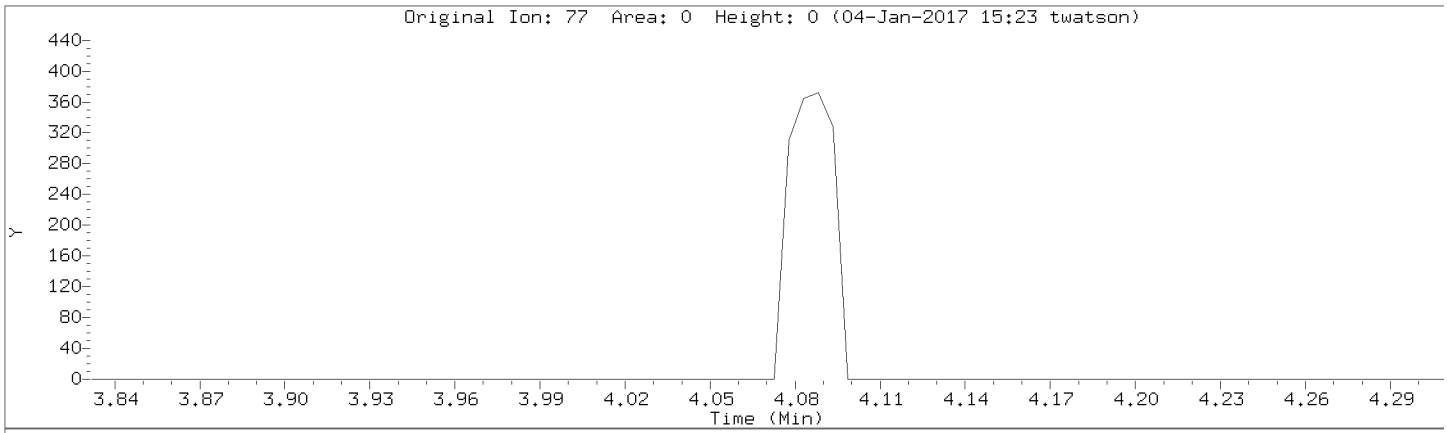


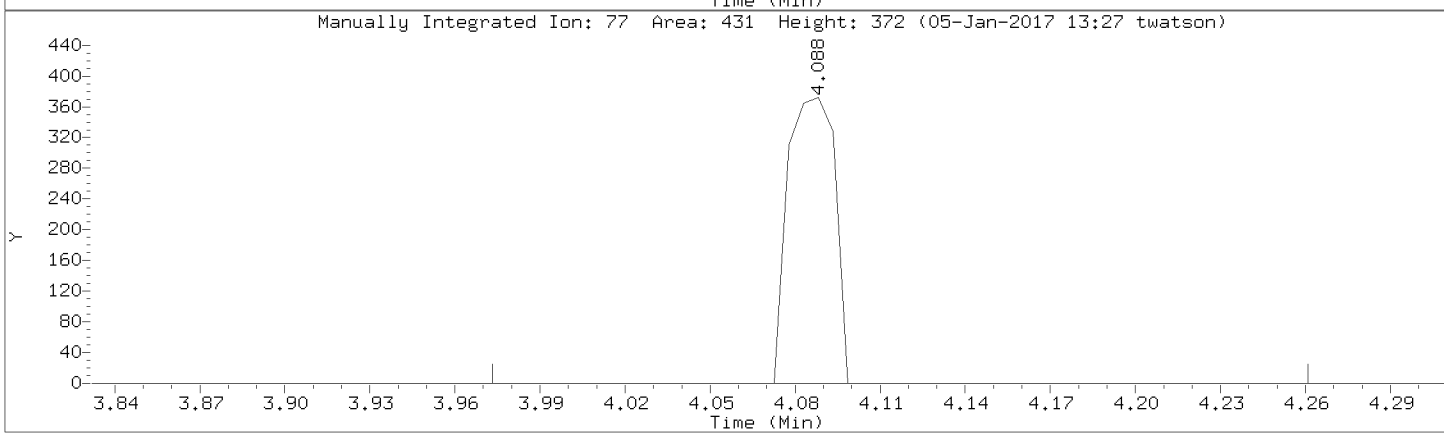






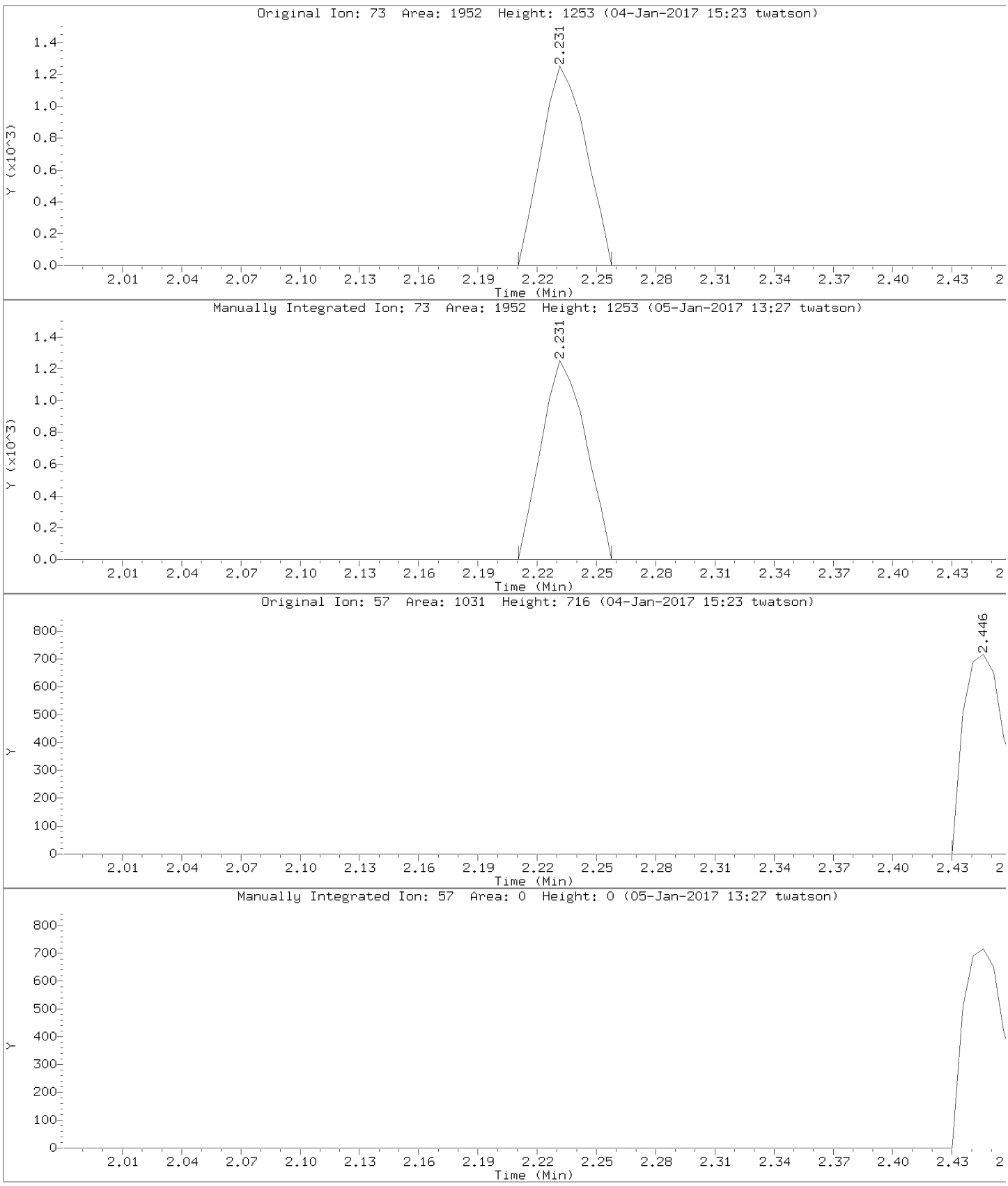
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b01cal1.d
Injection Date: 04-JAN-2017 14:54
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL1,139196:0





Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b01cal1.d
Injection Date: 04-JAN-2017 14:54
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL1,139196:0

Compound: Methyl-tert-butyl ether Review Code: WP
CAS Number: 1634-04-4



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Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b02cal2.d
Lab Smp Id: 8260-CAL2,139197:0 Client Smp ID: 8260-CAL2,139197:0
Inj Date : 04-JAN-2017 15:31
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal2,139197:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 53 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	1506	2.00000	1.52(M)	NI
2 Chloromethane	50	1.127	1.122	(0.253)	1820	2.00000	2.07	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	1131	2.00000	1.44(M)	NI
4 Bromomethane	94	1.331	1.316	(0.299)	493	2.00000	1.50(Q)	
5 Chloroethane	64	1.378	1.363	(0.309)	634	2.00000	1.61(QM)	NI
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	1732	2.00000	1.43(M)	NI
7 Diethyl ether	74	1.635	1.629	(0.367)	476	2.00000	1.57(Q)	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	1244	2.00000	1.70	
9 Acrolein	56	1.713	1.708	(0.384)	1824	40.0000	32.5	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	1178	2.00000	1.65	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	1028	2.00000	1.75	
12 Acetone	43	1.781	1.781	(0.399)	2214	10.0000	16.9	
13 Iodomethane	142	1.870	1.860	(0.419)	2145	4.00000	0.352	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	4304	2.00000	2.13(M)	NI
15 Methyl Acetate	43	1.959	1.959	(0.439)	480	2.00000	1.22(M)	NI
16 Acetonitrile	39	1.980	1.975	(0.444)	2246	2.00000	2.06	
17 allyl chloride	41	1.985	1.975	(0.445)	2887	4.00000	4.02	
18 Methylene Chloride	84	2.063	2.053	(0.463)	1637	2.00000	2.44(M)	NI
20 Acrylonitrile	53	2.205	2.200	(0.494)	1030	8.00000	7.30	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	3119	2.00000	1.83(T)	
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.505)	1107	2.00000	1.77	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	23 n-Hexane	57	2.445	2.435	(0.548)	1222	2.00000	1.46(M)	NI
	24 Vinyl Acetate	43	2.560	2.560	(0.574)	4993	8.00000	5.76(M)	NI
	25 1,1-Dichloroethane	63	2.576	2.571	(0.578)	2001	2.00000	1.88(M)	NI
	26 Chloroprene	53	2.634	2.628	(0.591)	1195	2.00000	1.68(M)	NI
	27 2-Butanone	43	3.062	3.063	(0.687)	1805	10.0000	11.2(M)	NI
	28 1,2-Dichloroethene (cis)	96	3.083	3.083	(0.692)	1139	2.00000	1.66(Q)	
	29 2,2-Dichloropropane	77	3.094	3.083	(0.694)	1645	2.00000	1.75(M)	NI
	31 Methacrylonitrile	41	3.287	3.282	(0.737)	98	2.00000	0.403(QM)	NI
	32 Bromochloromethane	49	3.340	3.335	(0.749)	685	2.00000	1.71	
	34 Chloroform	83	3.455	3.450	(0.775)	2371	2.00000	1.96	
	35 1,1,1-Trichloroethane	97	3.638	3.638	(0.816)	1812	2.00000	1.70(M)	NI
$	36 Dibromofluoromethane (S)	113	3.643	3.638	(0.817)	45303	50.0000	50.0	
	37 Cyclohexane	56	3.732	3.727	(0.837)	1307	2.00000	1.59	
	38 n-butyl chloride	56	3.805	3.795	(0.853)	1734	2.00000	1.69	
	39 Carbon Tetrachloride	117	3.842	3.837	(0.862)	1625	2.00000	1.63(M)	NI
	40 1,1-Dichloropropene	75	3.847	3.842	(0.863)	1508	2.00000	1.72(M)	NI
	41 Benzene	78	4.088	4.082	(0.917)	4955	2.00000	1.92	
	42 1,2-Dichloroethane	62	4.166	4.166	(0.934)	1505	2.00000	1.89(QM)	NI
	43 Isobutyl alcohol	43	4.176	4.187	(0.937)	6714	2.00000	1.99(M)	NI
	44 2,2,4-Trimethylpentane	57	4.250	4.245	(0.953)	3153	2.00000	1.62	
*	45 Fluorobenzene (IS)	96	4.459	4.459	(1.000)	148411	50.0000		
	46 Trichloroethene	95	4.898	4.893	(1.099)	1202	2.00000	1.76	
	47 Methylcyclohexane	55	5.160	5.155	(1.157)	936	2.00000	1.29	
	48 1,2-Dichloropropane	63	5.196	5.197	(1.165)	1014	2.00000	1.73(M)	NI
	49 Dibromomethane	93	5.285	5.291	(1.185)	707	2.00000	1.63	
	50 Methyl methacrylate	69	5.296	5.291	(1.188)	425	2.00000	1.20(QM)	NI
	52 Bromodichloromethane	83	5.505	5.505	(1.235)	1826	2.00000	1.96(M)	NI
	53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	996	4.00000	3.19(QM)	NI
	54 cis-1,3-Dichloropropene	75	5.991	5.986	(0.796)	1953	2.00000	1.90	
	55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	4331	10.0000	10.0	
$	56 Toluene-d8 (S)	98	6.263	6.263	(0.832)	157006	50.0000	51.5	
	57 Toluene	91	6.331	6.337	(0.841)	6306	2.00000	2.21	
	58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	1723	2.00000	1.88	
	59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	1197	2.00000	1.73(M)	NI
	60 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	785	2.00000	1.71	
	61 Tetrachloroethene	166	6.828	6.828	(0.907)	1482	2.00000	1.73	
	62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	1736	2.00000	1.93	
	63 2-Hexanone	43	6.959	6.964	(0.924)	3016	10.0000	9.72	
	64 Dibromochloromethane	129	7.090	7.090	(0.942)	1523	2.00000	1.85	
	65 1,2-Dibromoethane	107	7.173	7.174	(0.953)	1139	2.00000	1.82	
*	66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	119473	50.0000		
	67 Chlorobenzene	112	7.550	7.555	(1.003)	4401	2.00000	2.09	
	68 1,1,1,2-Tetrachloroethane	131	7.628	7.629	(1.013)	1465	2.00000	1.93	
	69 Ethylbenzene	106	7.628	7.634	(1.013)	2047	2.00000	1.81	
	70 m&p-Xylene	106	7.723	7.728	(1.026)	5528	4.00000	3.96	
	71 o-Xylene	106	7.984	7.984	(1.060)	2658	2.00000	1.94	
	72 Styrene	104	8.000	8.000	(1.063)	4529	2.00000	1.99	
	73 Bromoform	173	8.120	8.125	(0.901)	1024	2.00000	1.78(M)	NI
	74 Isopropylbenzene	105	8.225	8.225	(1.092)	7075	2.00000	1.93	
$	75 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	55982	50.0000	49.3	
	76 Bromobenzene	77	8.418	8.418	(1.118)	2569	2.00000	2.00	
	77 1,1,2,2-Tetrachloroethane	83	8.423	8.429	(0.934)	1549	2.00000	1.95(M)	NI
	79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	362	2.00000	1.62(Q)	
	80 n-Propylbenzene	91	8.481	8.486	(0.941)	8326	2.00000	2.07	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	4949	2.00000	2.12	
82 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	6457	2.00000	2.14	
83 4-Chlorotoluene	126	8.606	8.612	(0.955)	1873	2.00000	1.94	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	5309	2.00000	1.97	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	6575	2.00000	2.10	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	8126	2.00000	1.92	
87 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	3882	2.00000	2.06	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	6912	2.00000	1.99	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.014	9.015	(1.000)	72084	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	4244	2.00000	2.17	
91 n-Butylbenzene	91	9.197	9.198	(1.020)	6350	2.00000	2.06	
92 1,2-Dichlorobenzene	146	9.218	9.219	(1.023)	3839	2.00000	2.10	
93 1,2-Dibromo-3-chloropropane	155	9.632	9.627	(1.068)	198	2.00000	1.28(QM)	NI
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	2970	2.00000	2.15	
95 Hexachlorobutadiene	225	10.108	10.113	(1.121)	1680	2.00000	2.06	
96 Naphthalene	128	10.196	10.191	(1.131)	6132	2.00000	1.95	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	2879	2.00000	2.22	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	3141	2.00000	2.07	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	2879	2.00000	2.09	

QC Flag Legend

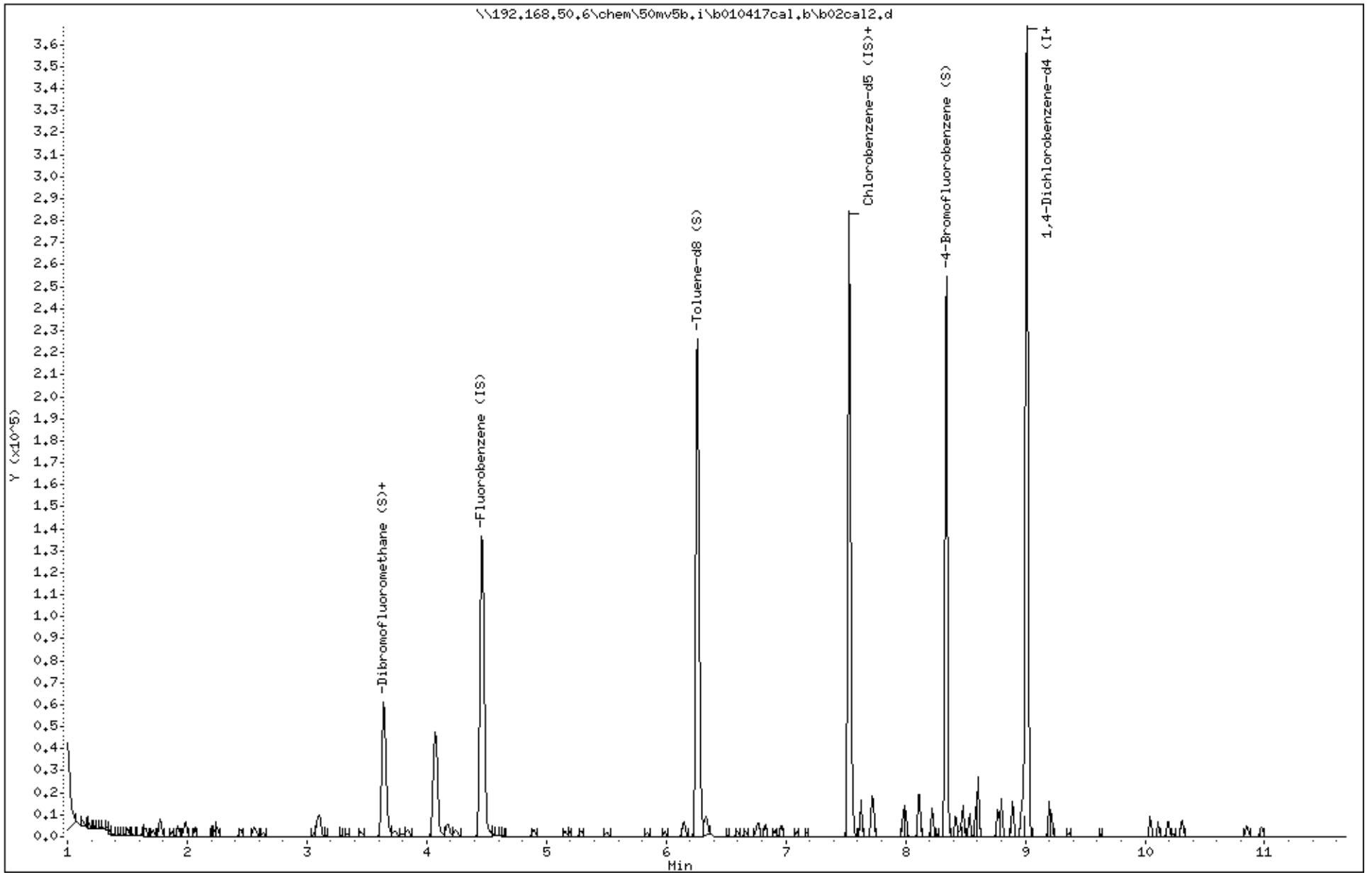
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
:

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b02cal2.d
Date : 04-JAN-2017 15:31
Client ID: 8260-CAL2,139197:0
Sample Info: 8260-CAL2,139197:0

Instrument: 50mv5b.i
Operator: TMW
Column phase: DB-624
Column diameter: 0.18



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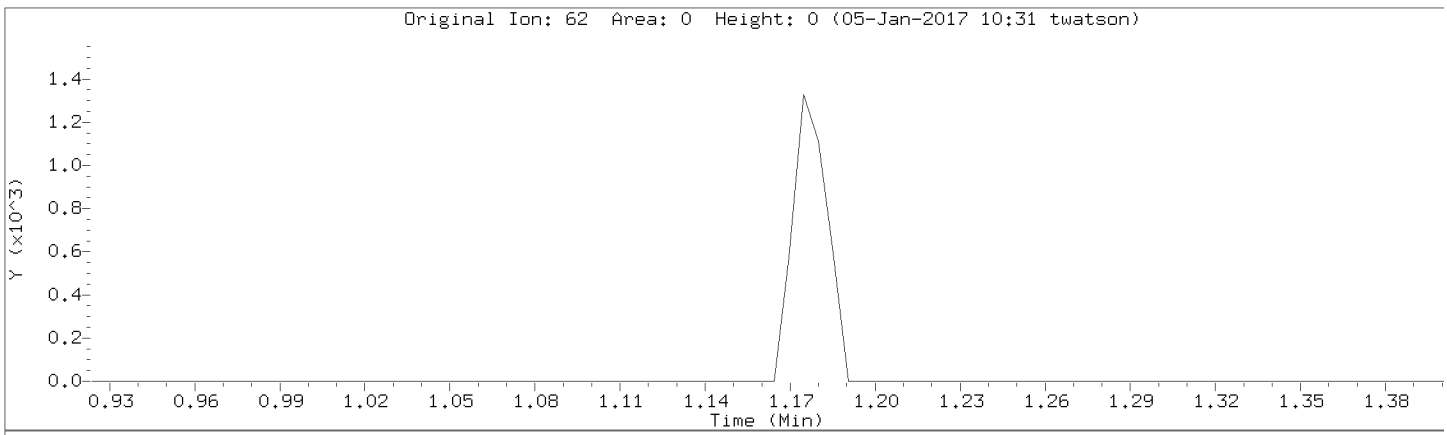
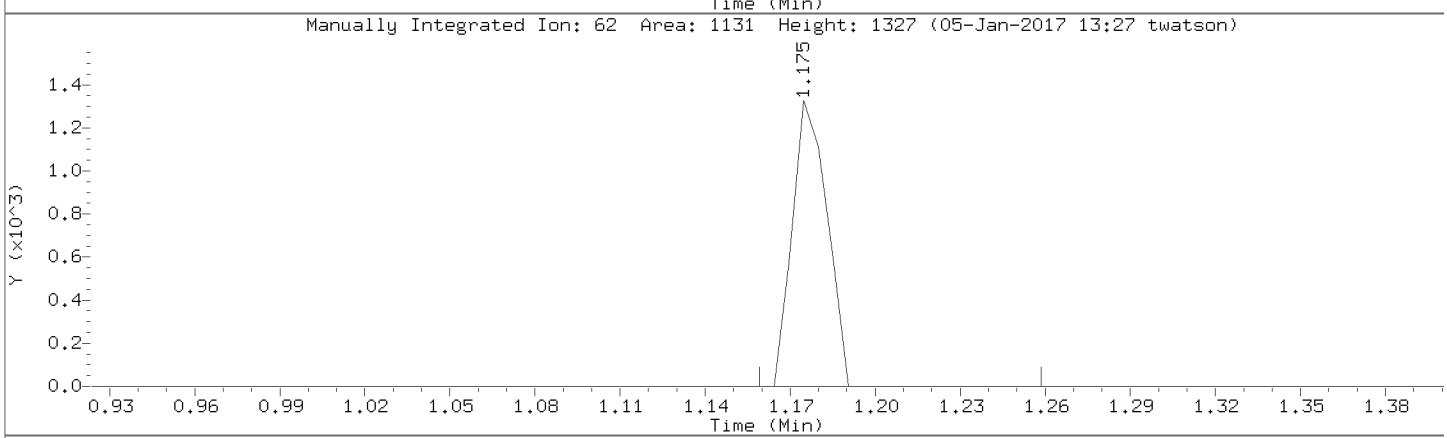
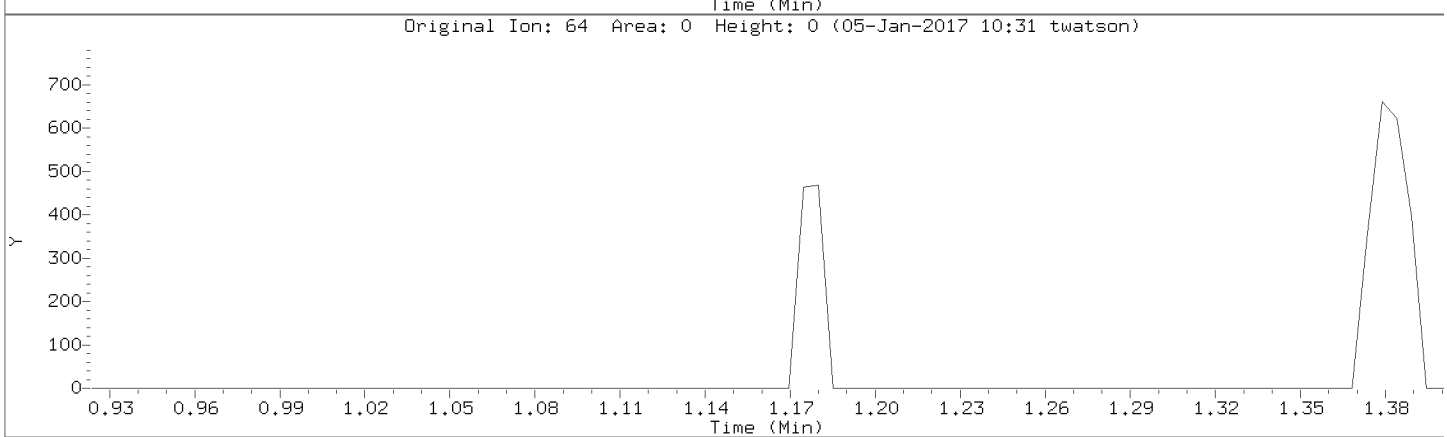
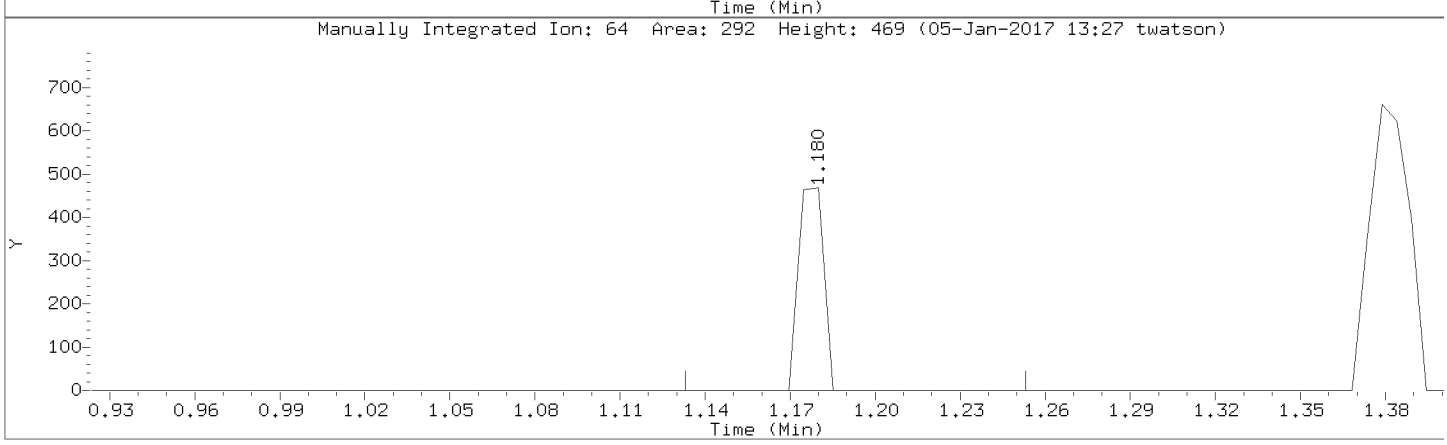
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4









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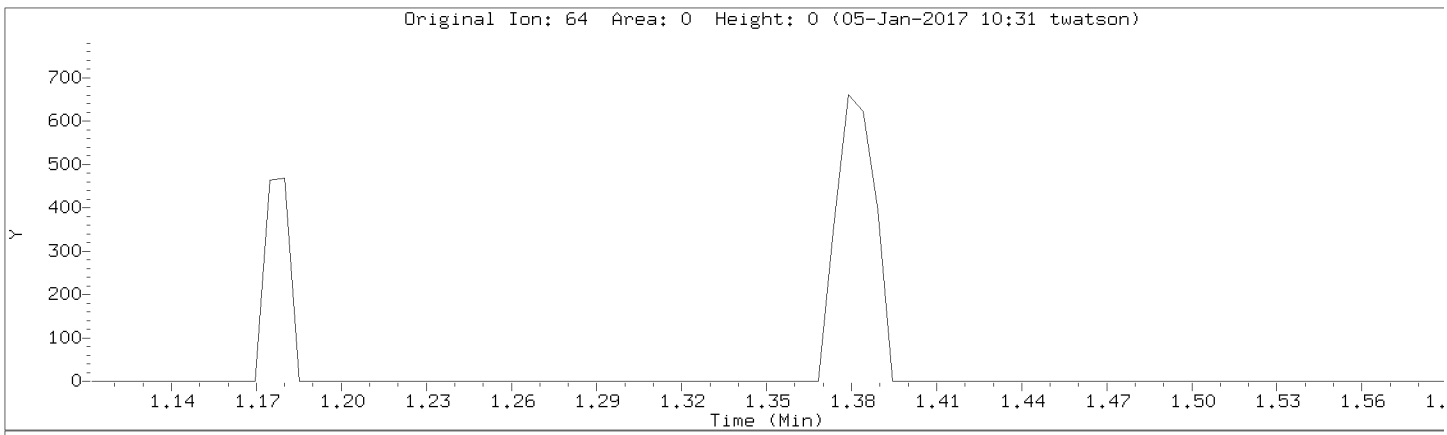
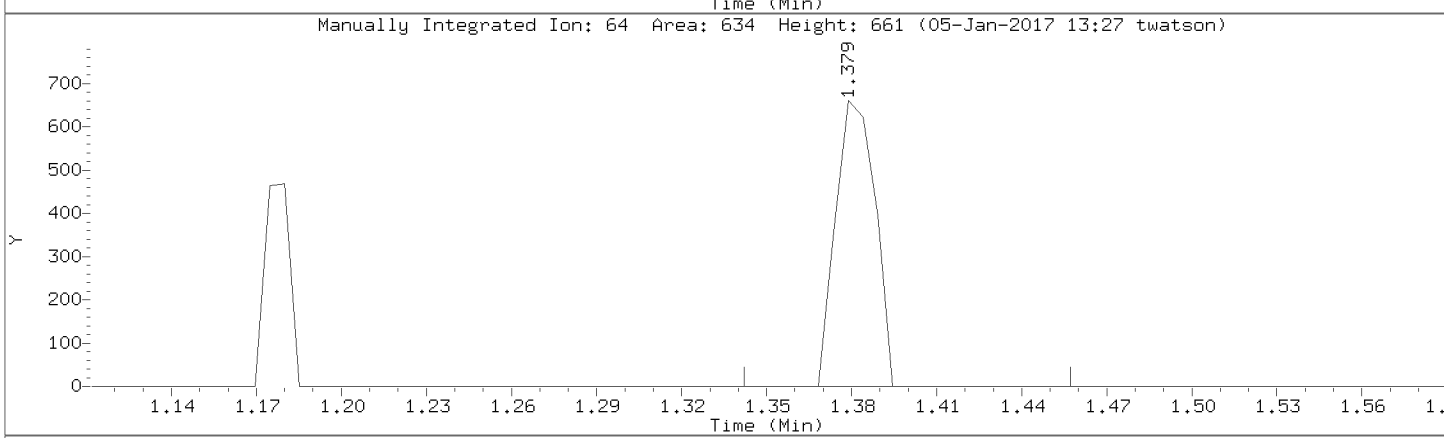
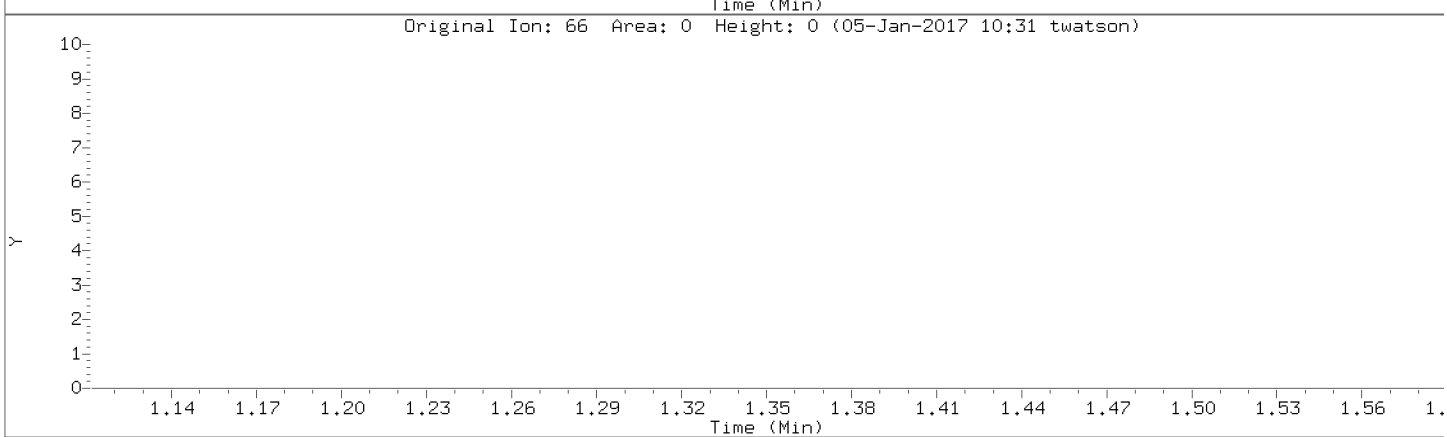
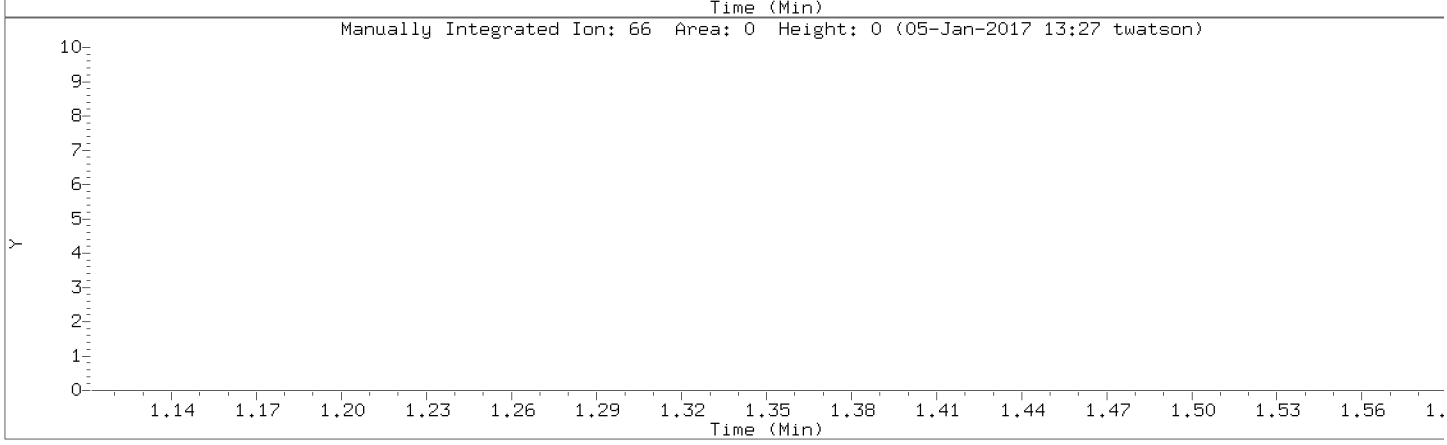
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Chloroethane Review Code: NI
CAS Number: 75-00-3









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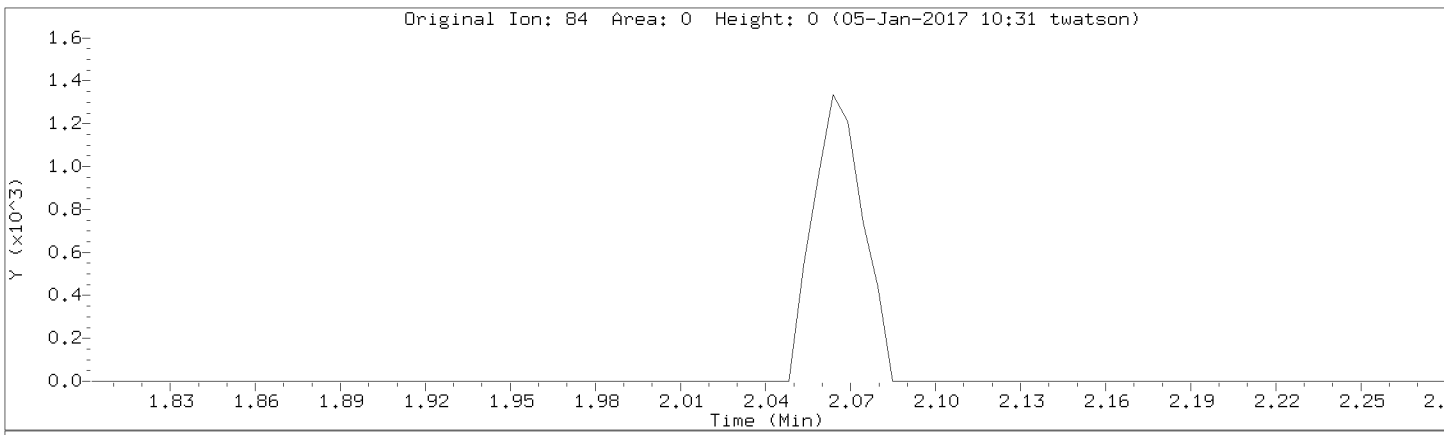
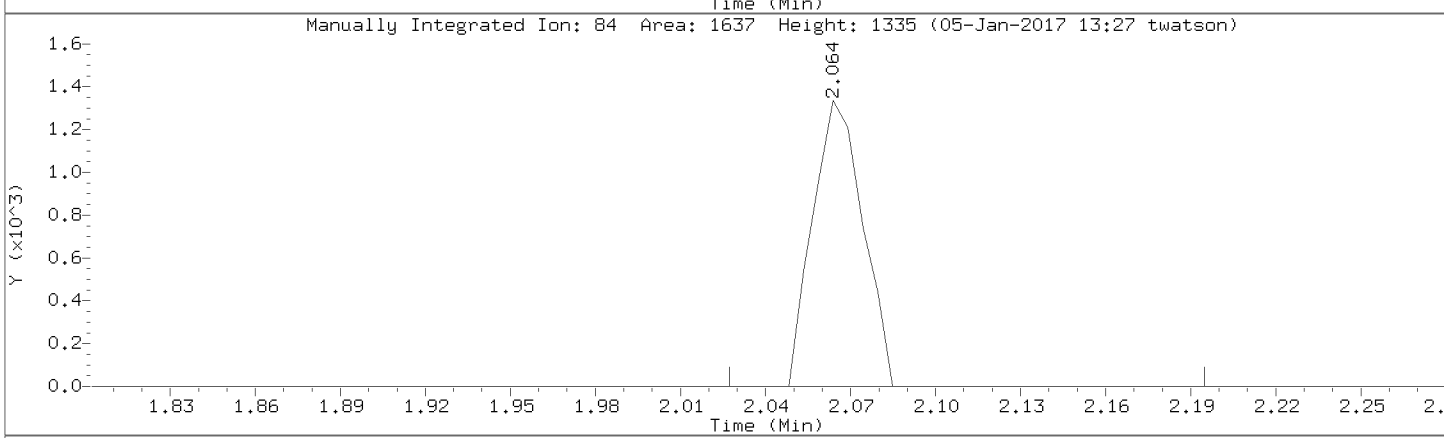
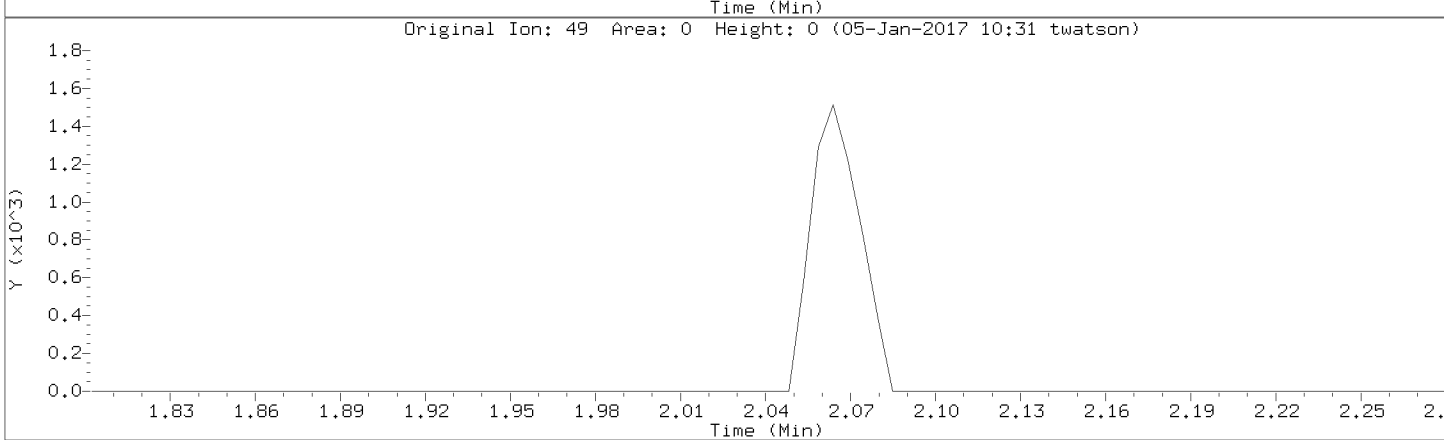
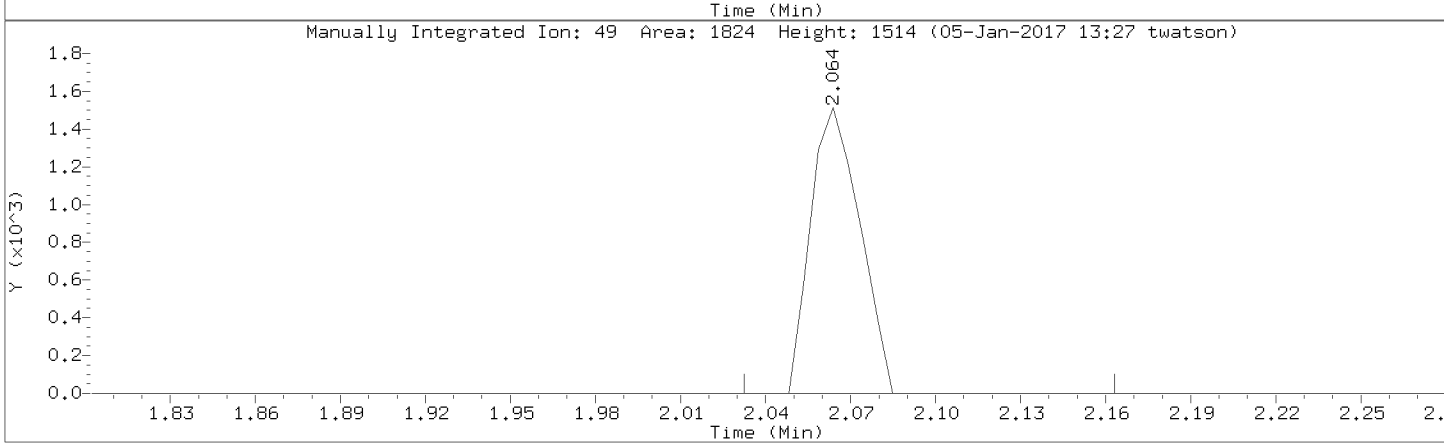
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Methylene Chloride Review Code: NI
CAS Number: 75-09-2









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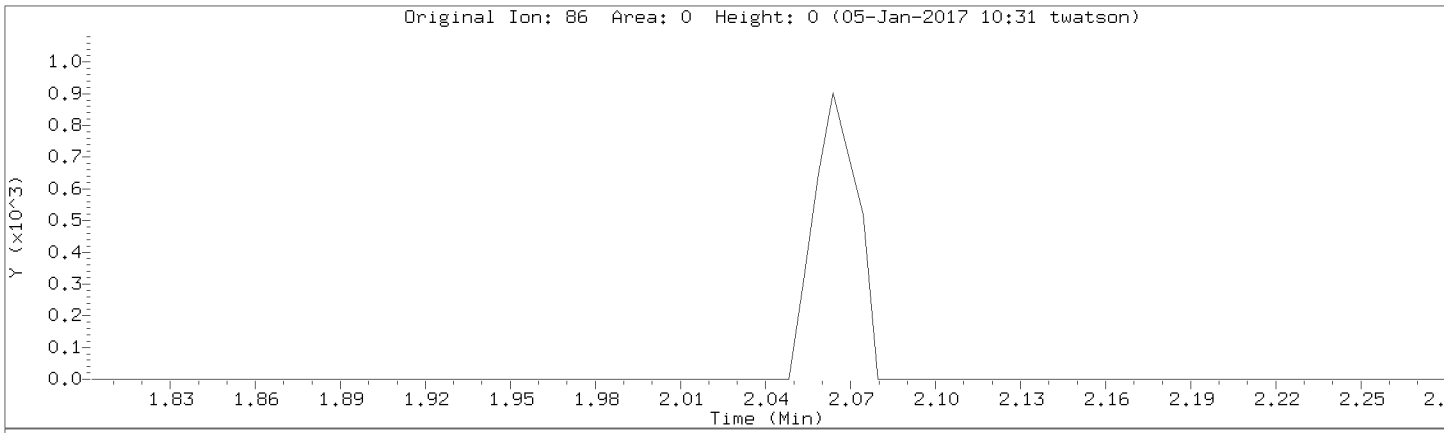
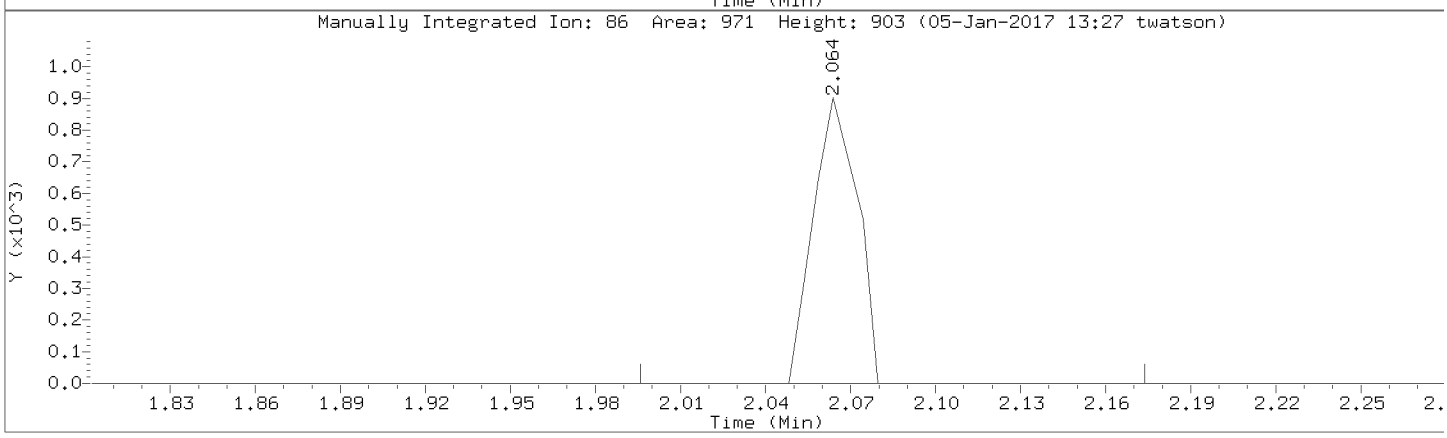
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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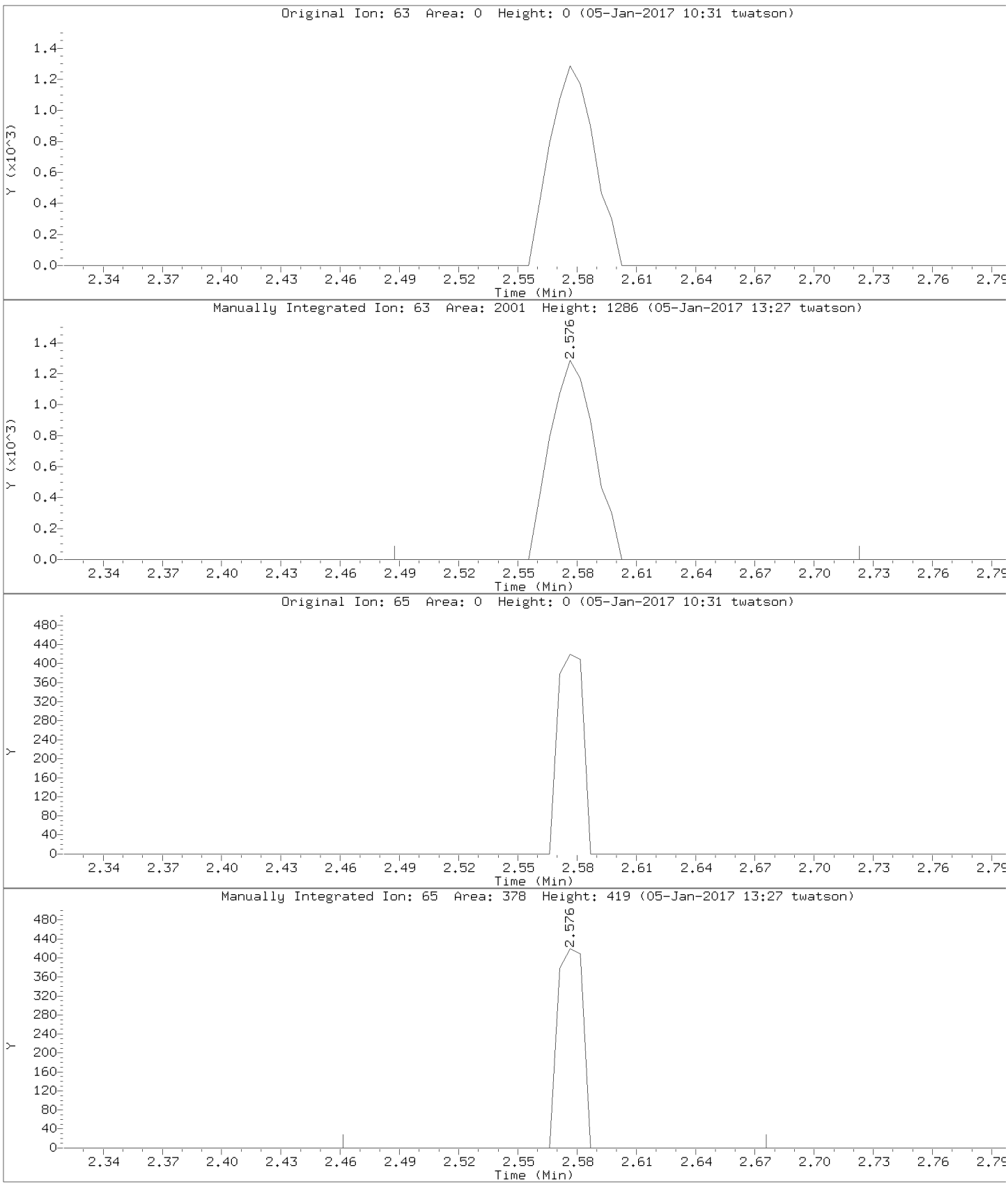
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3



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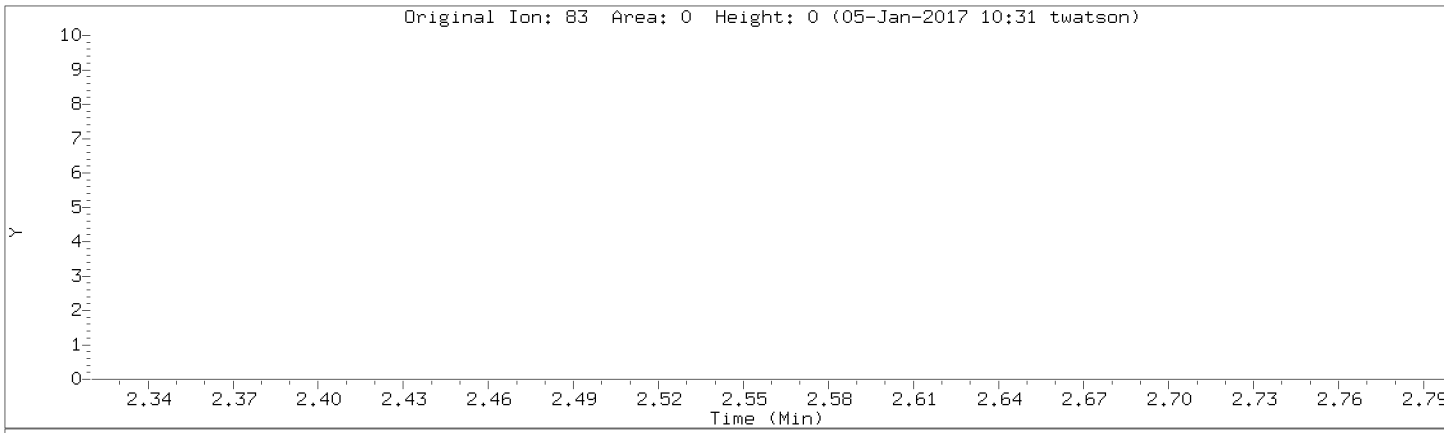
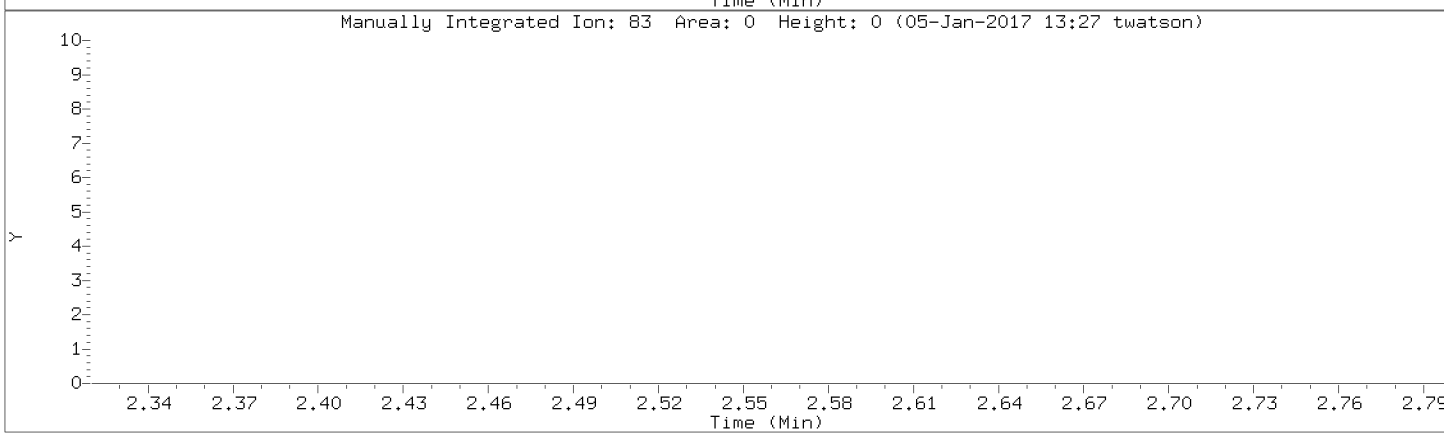
Lab Sample ID: 8260-CAL2,139197:0





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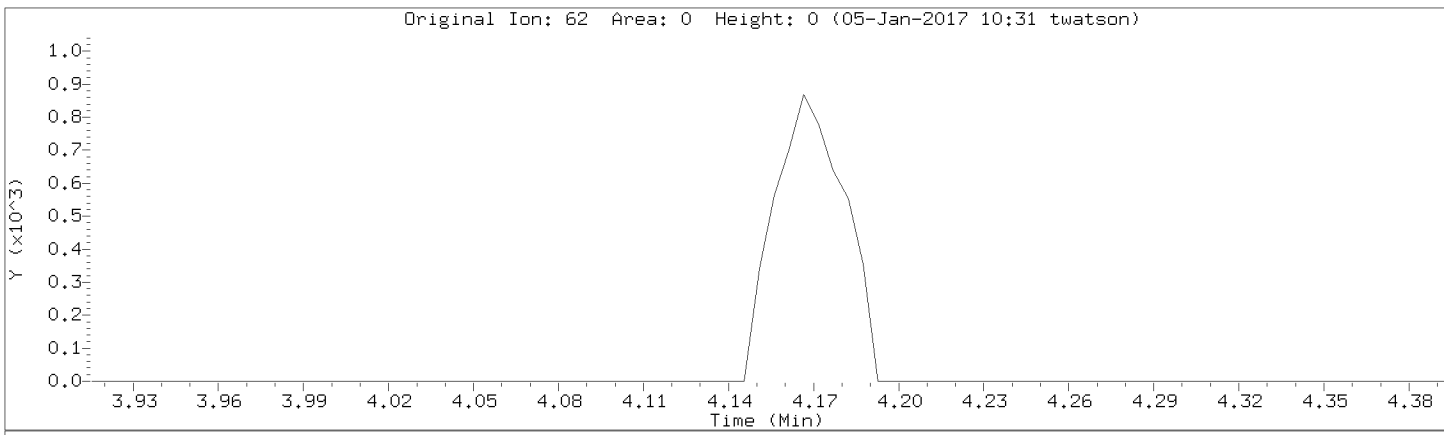
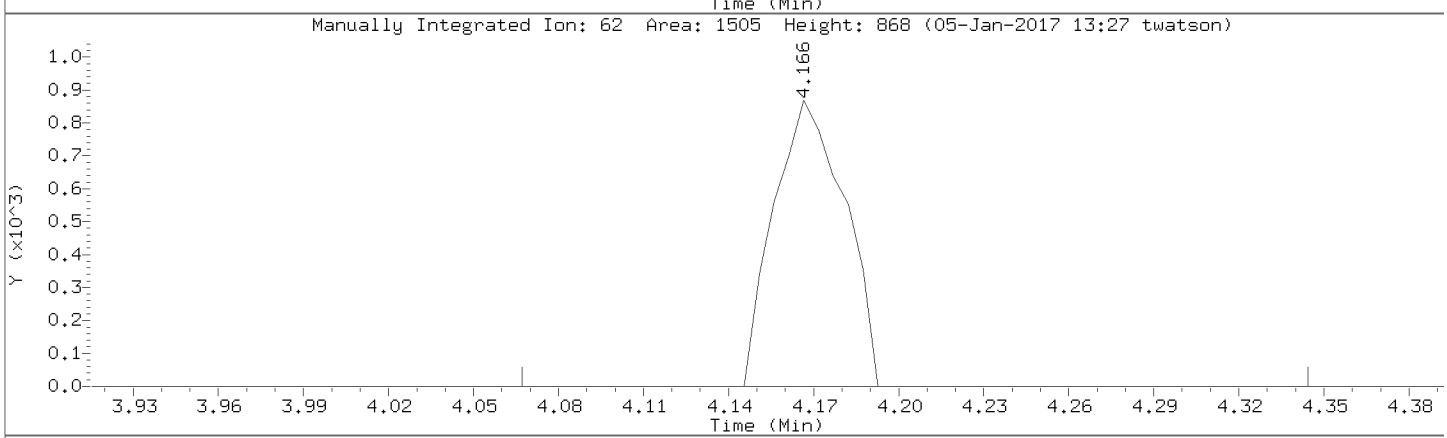
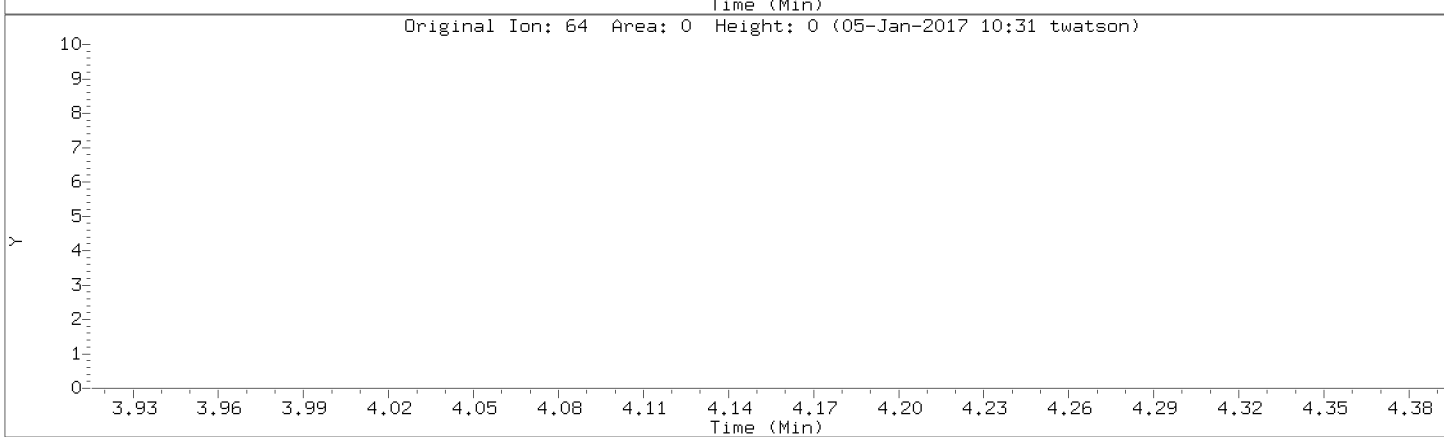
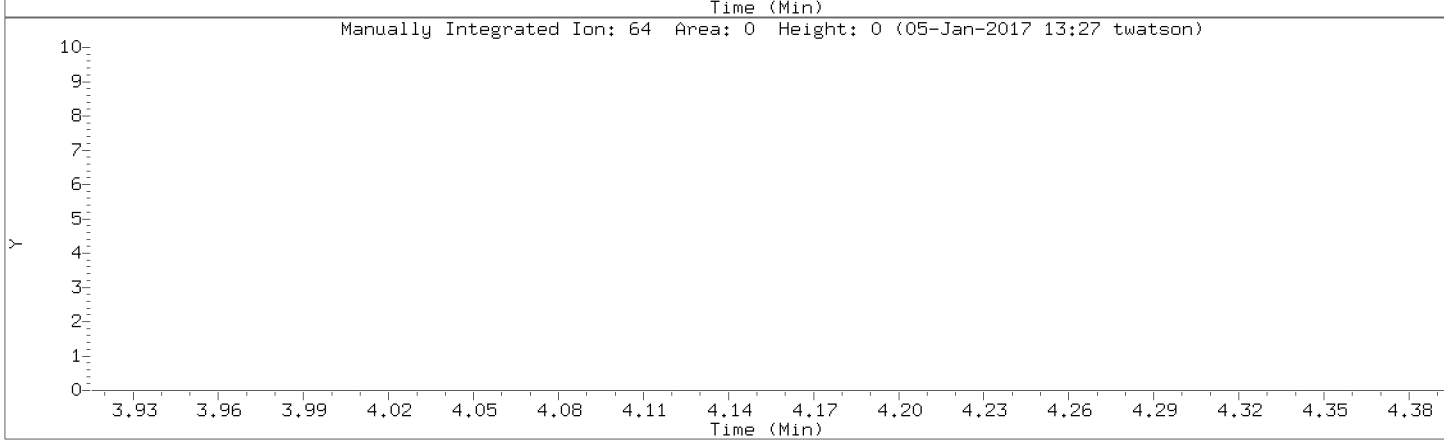
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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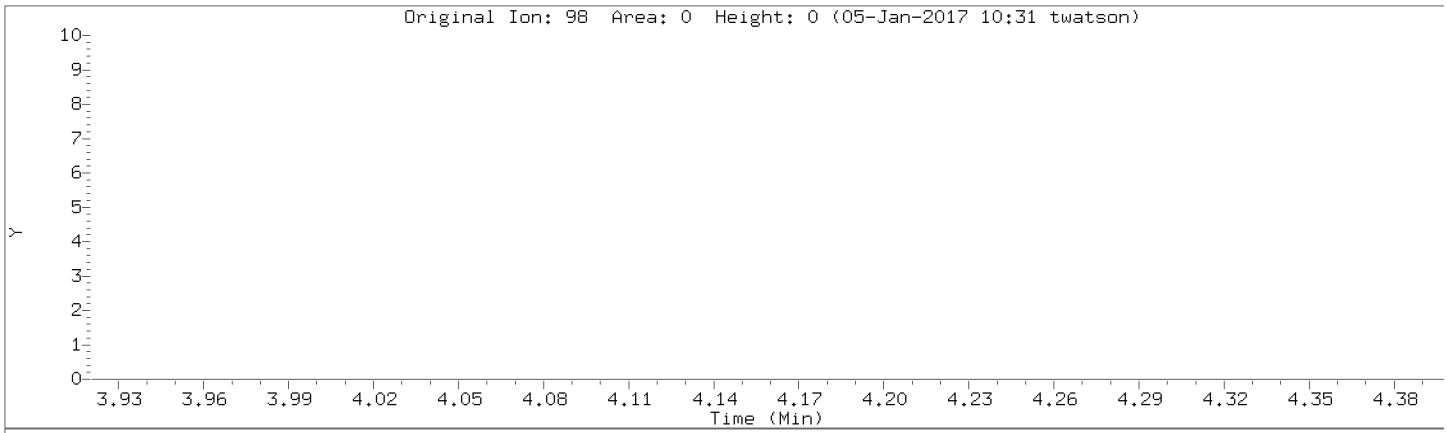
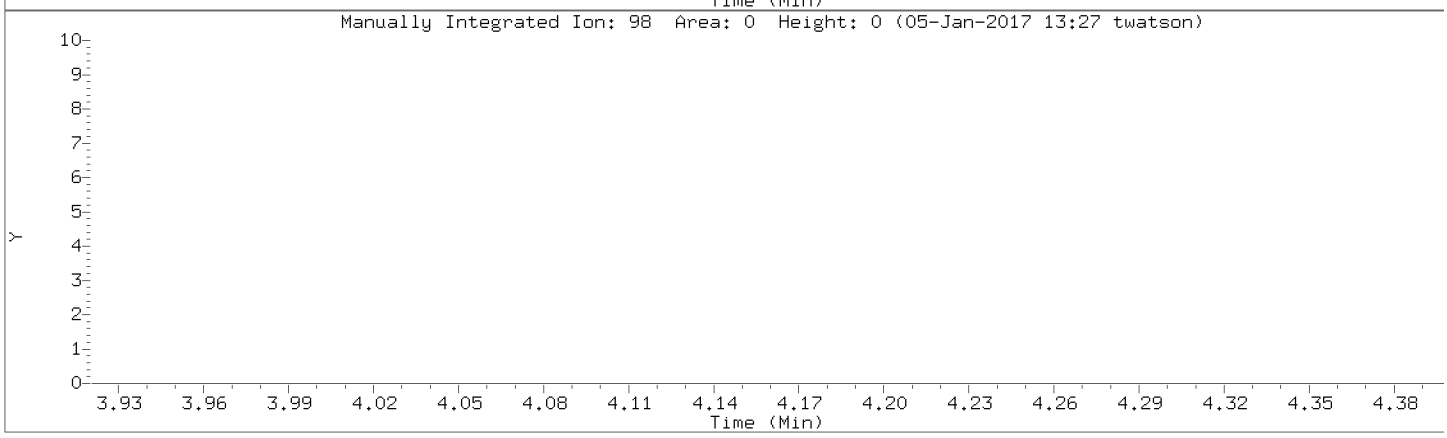
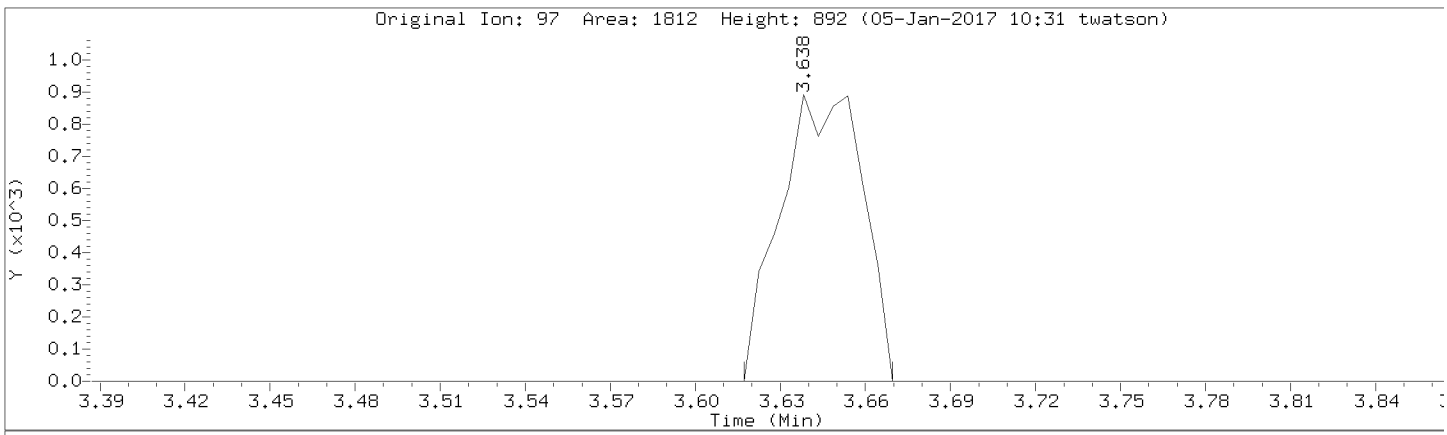
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

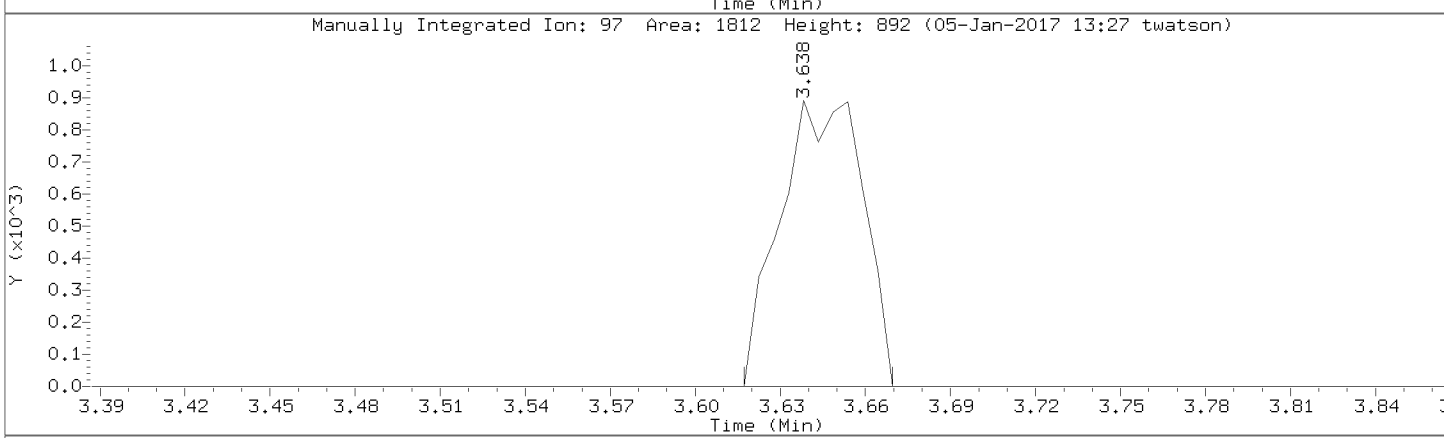


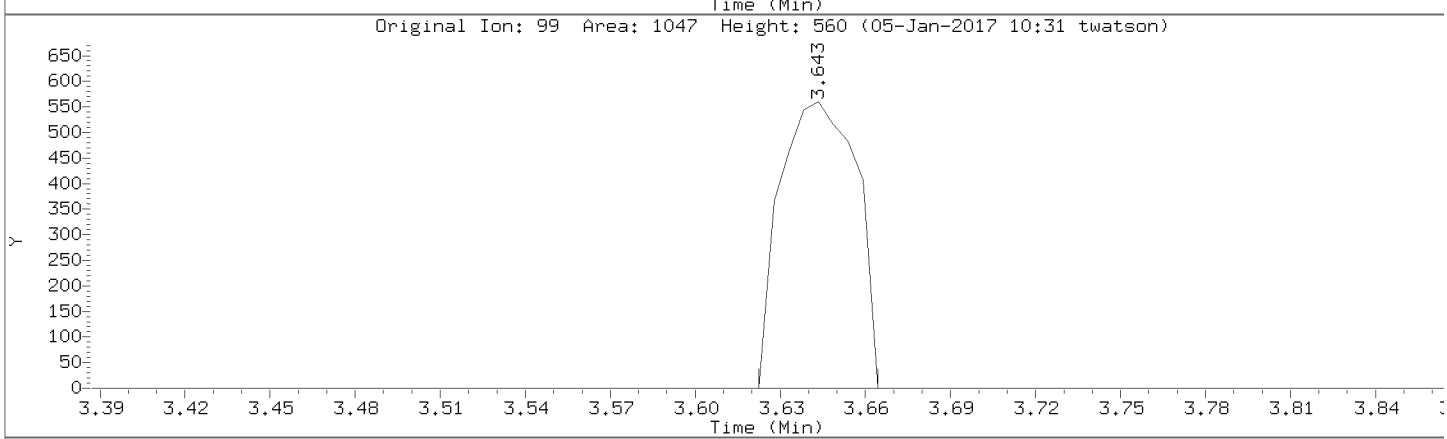


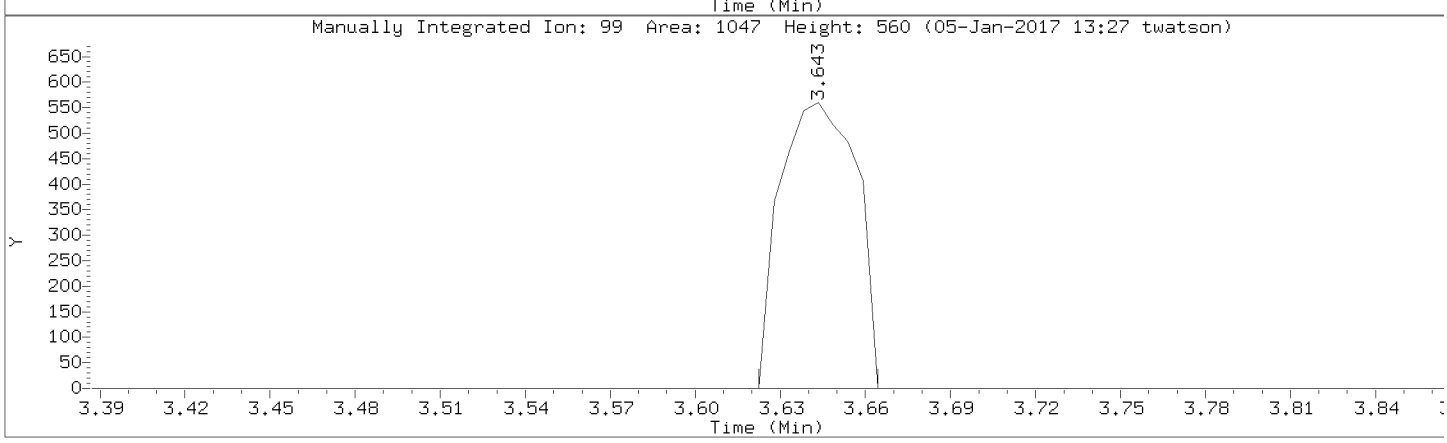
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,1,1-Trichloroethane Review Code: NI
CAS Number: 71-55-6









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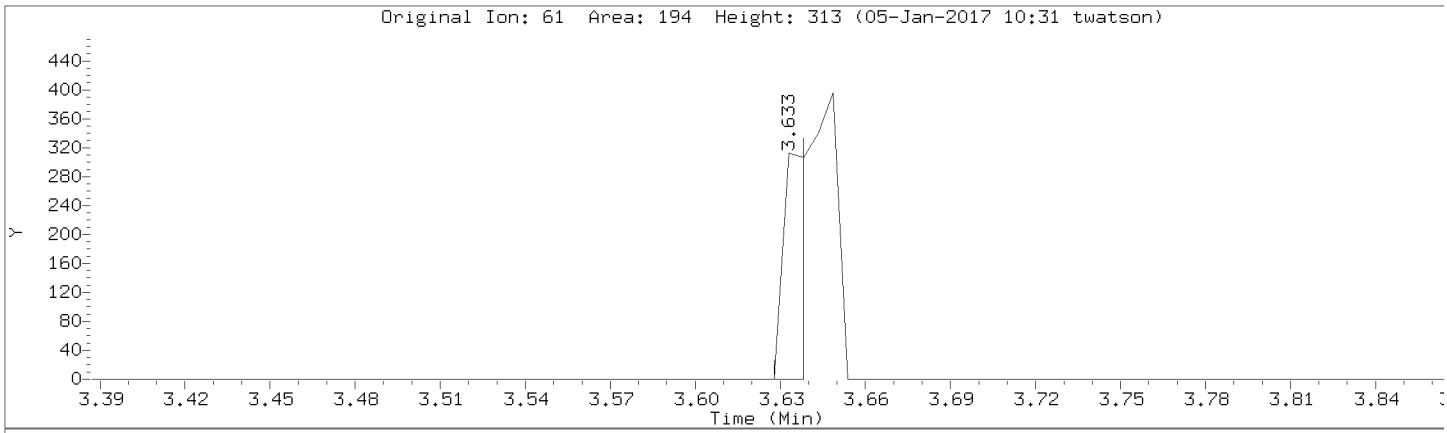
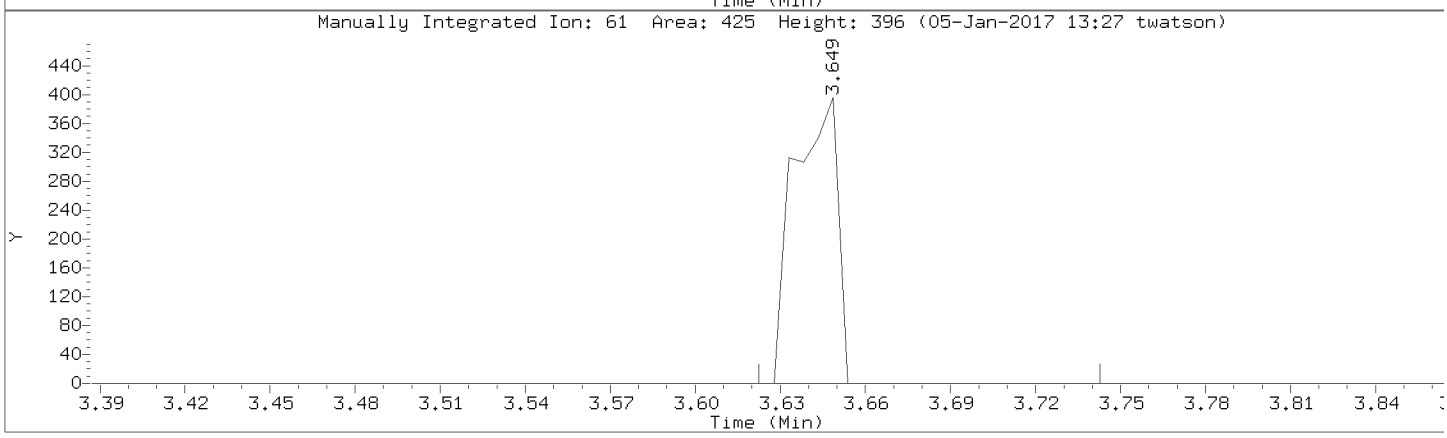
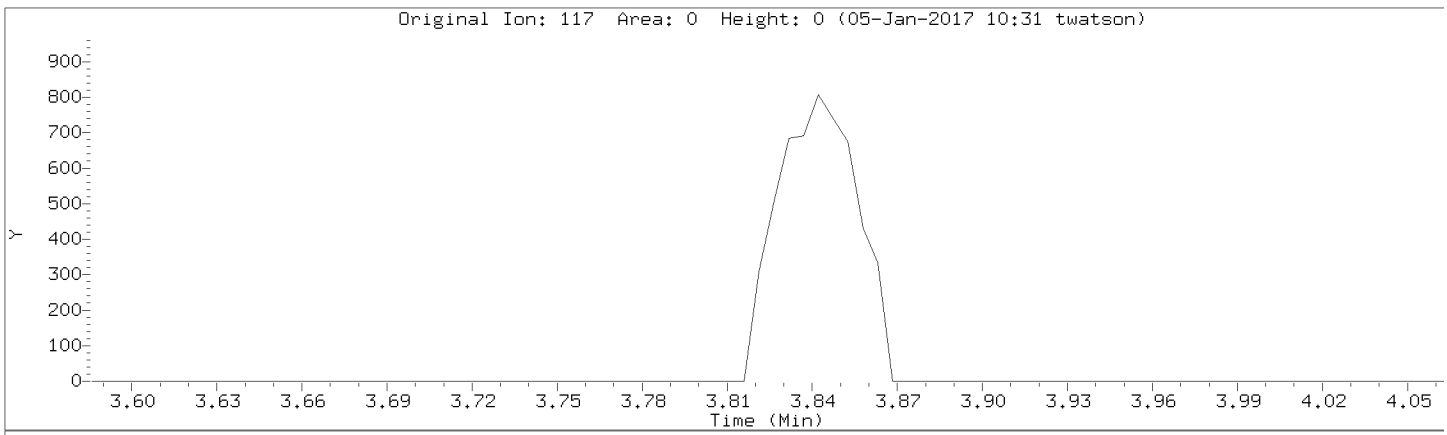
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

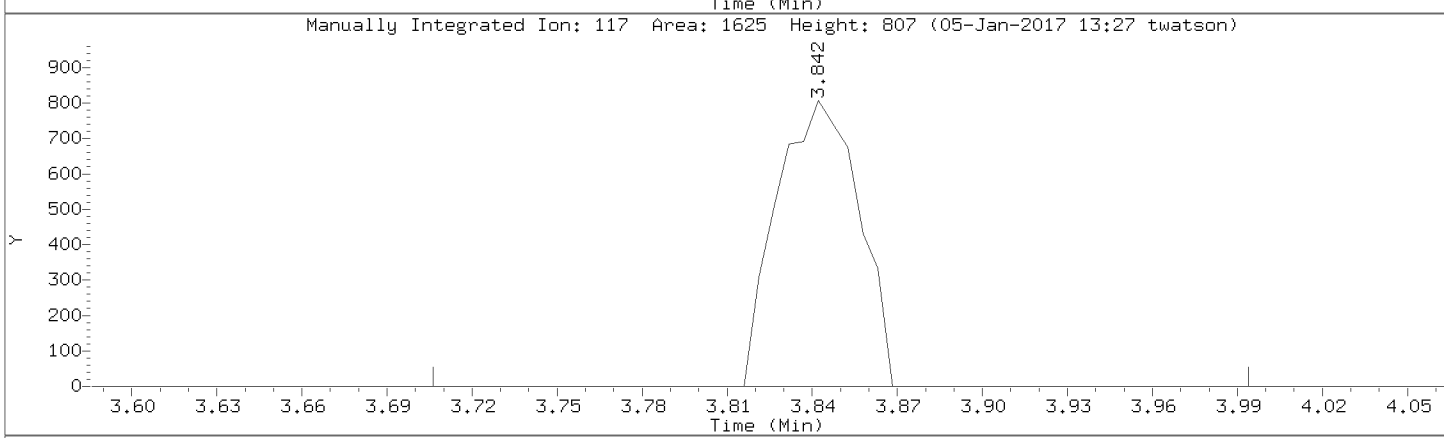


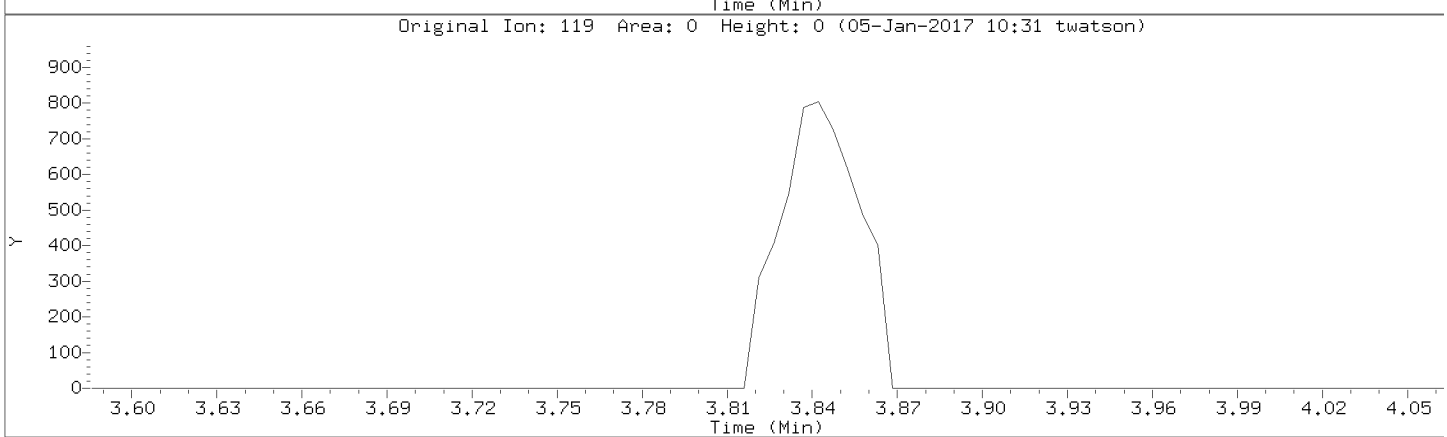


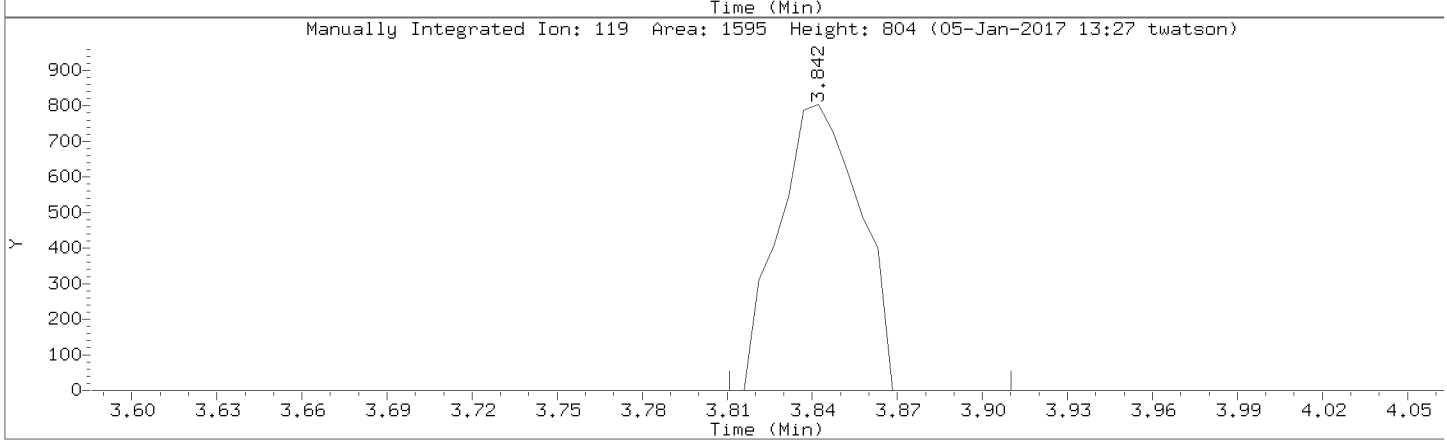
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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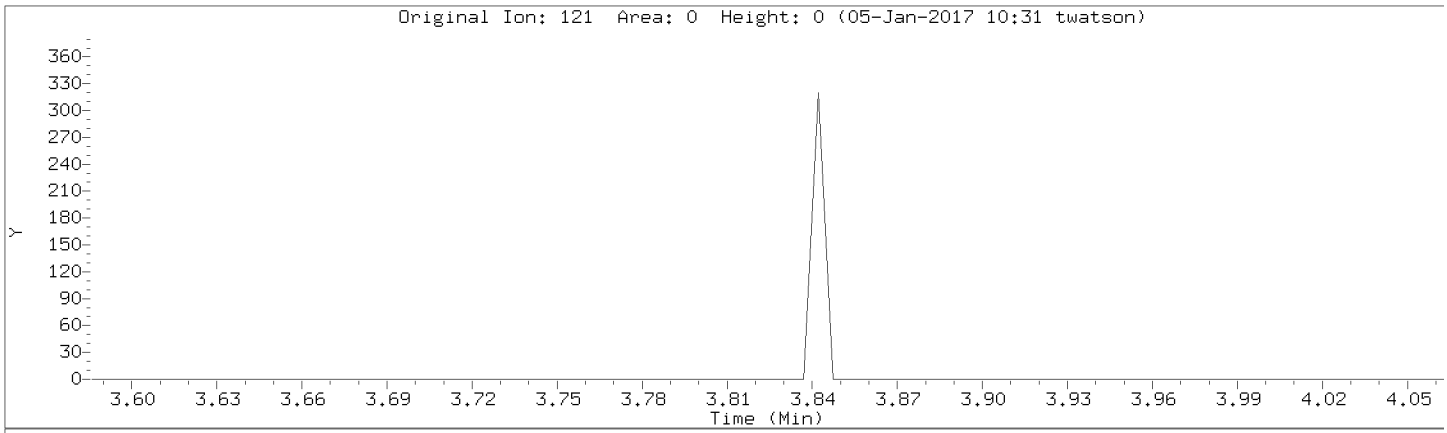
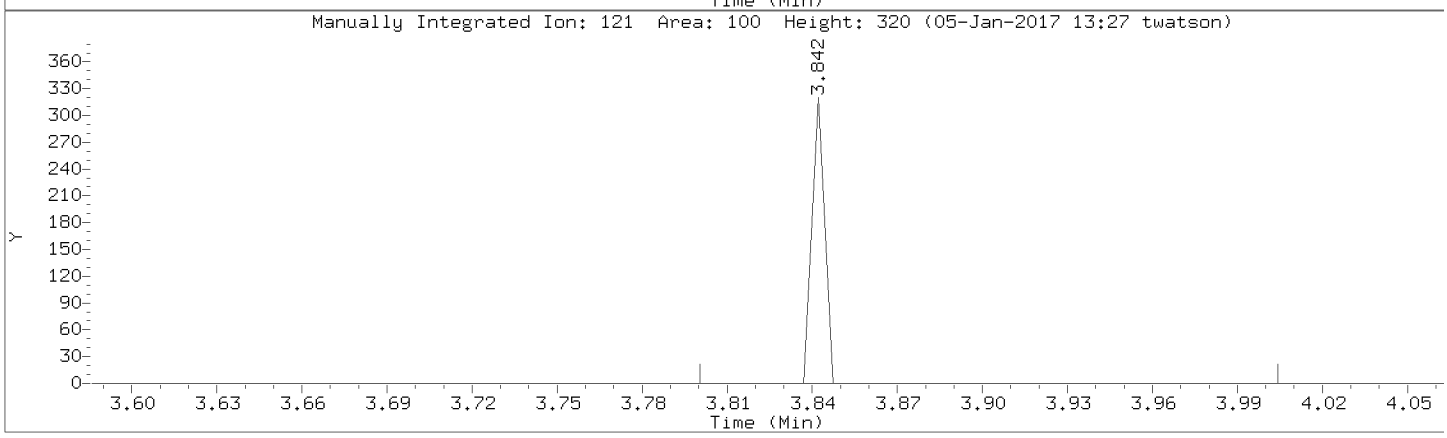
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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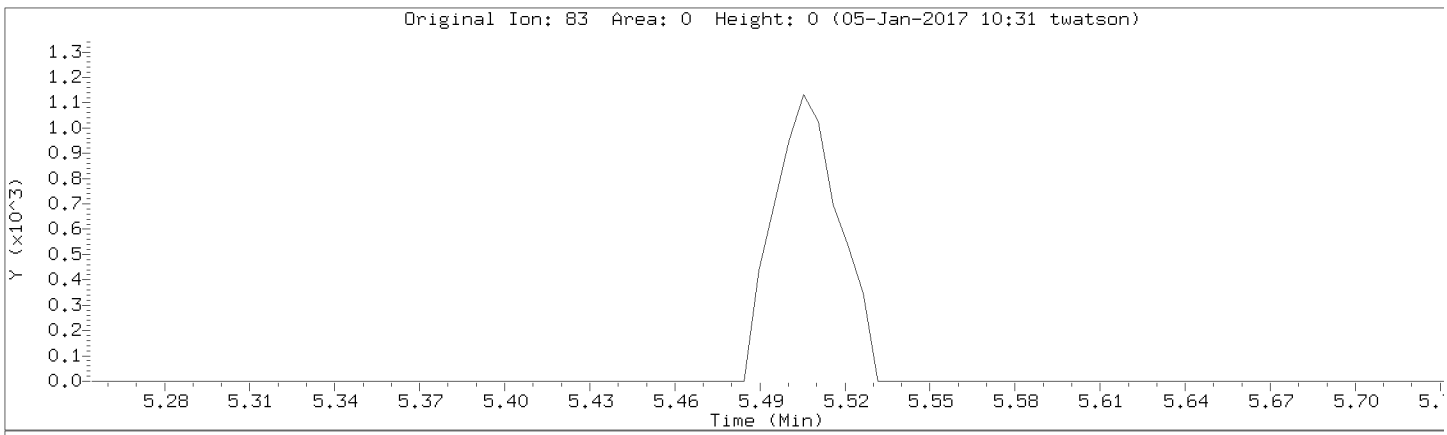
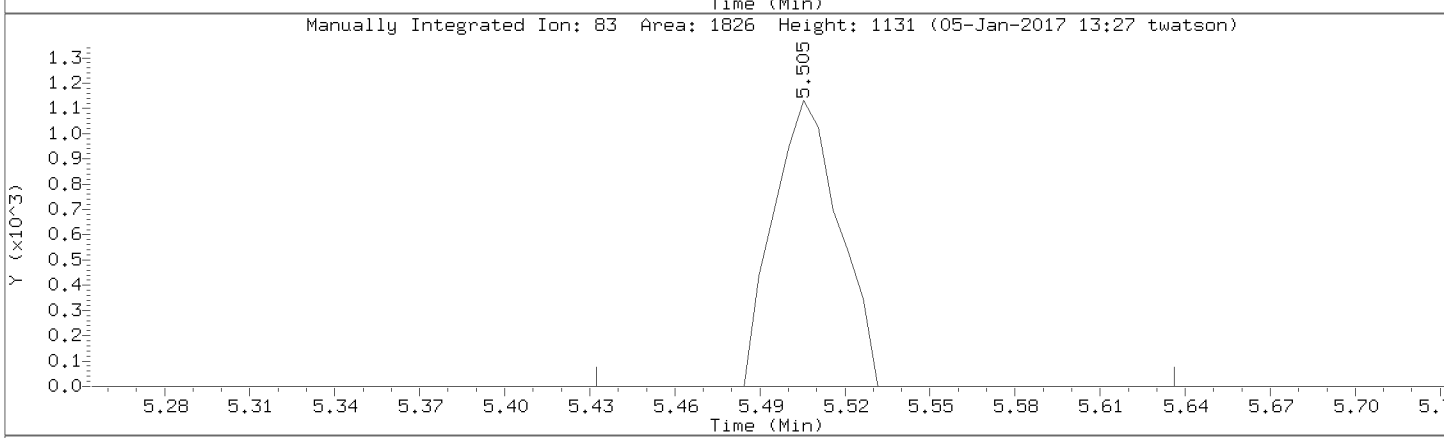
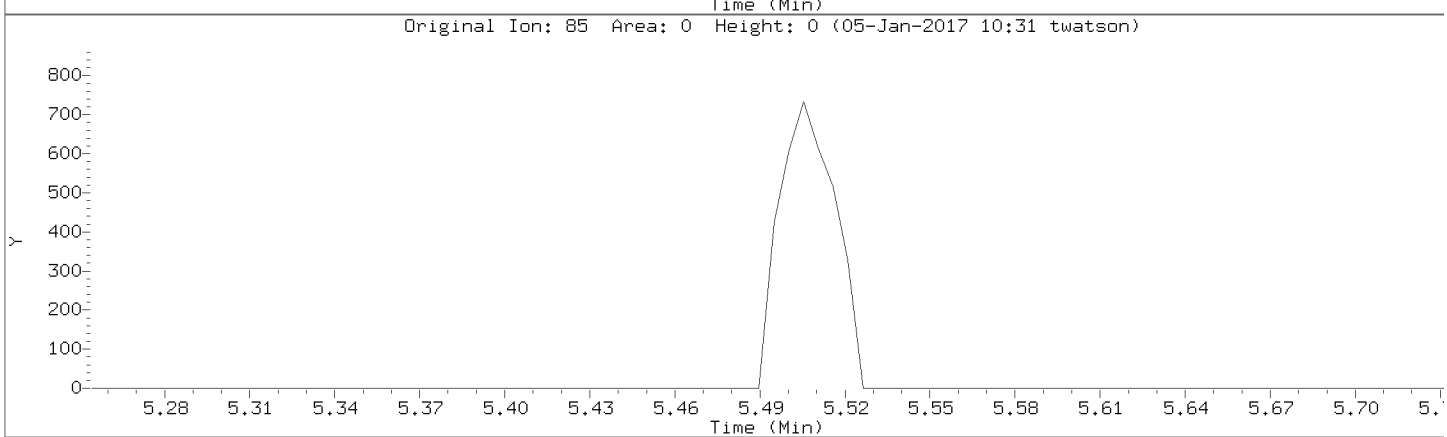
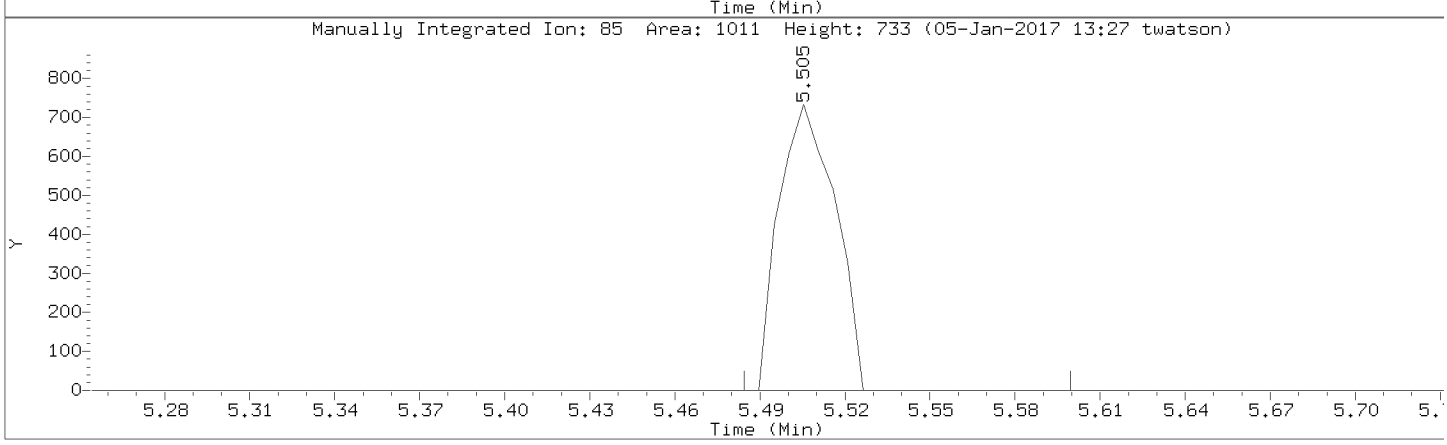
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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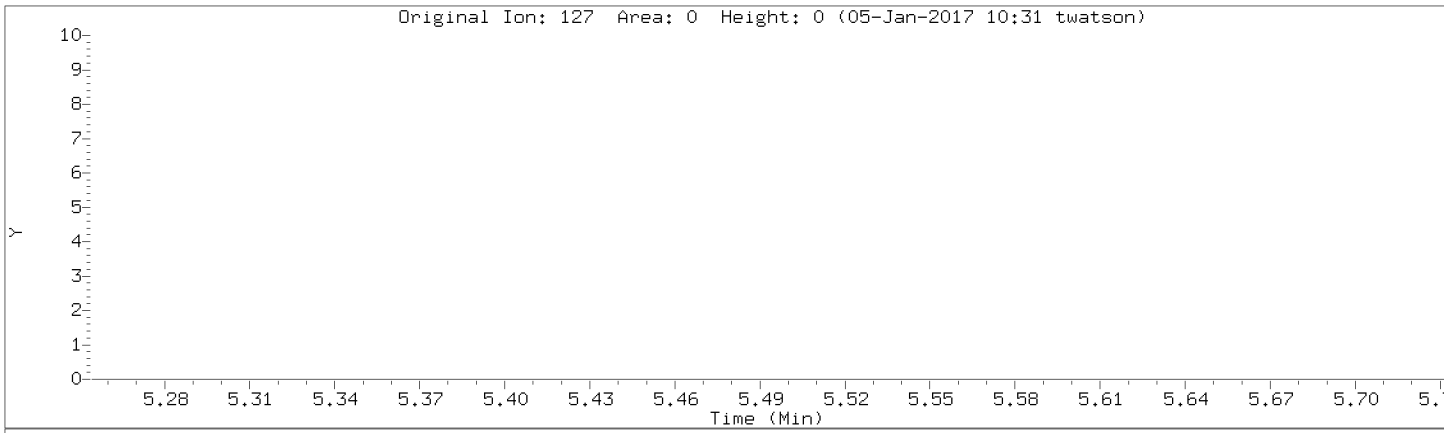
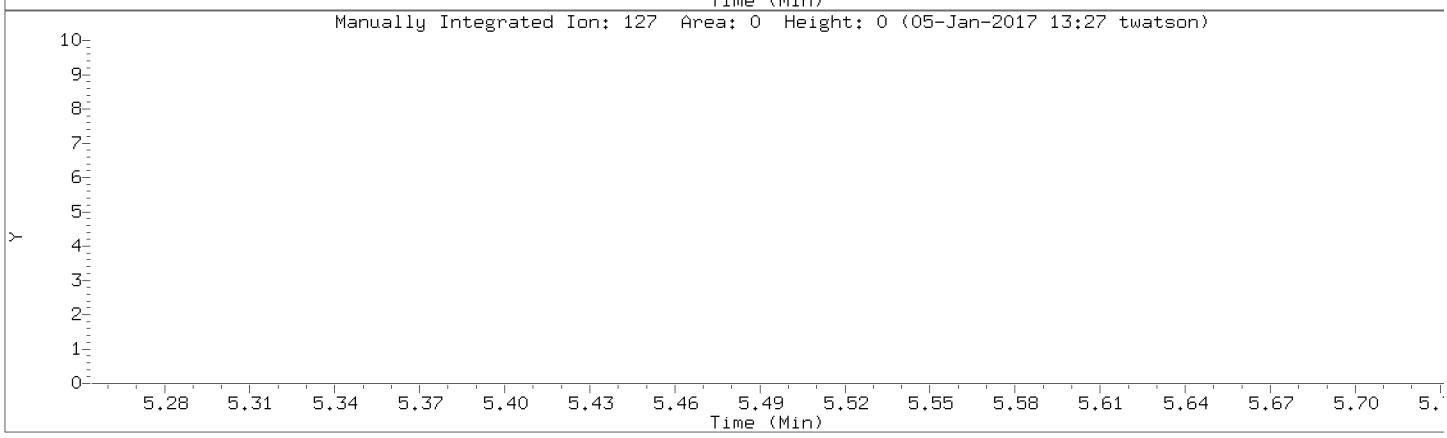
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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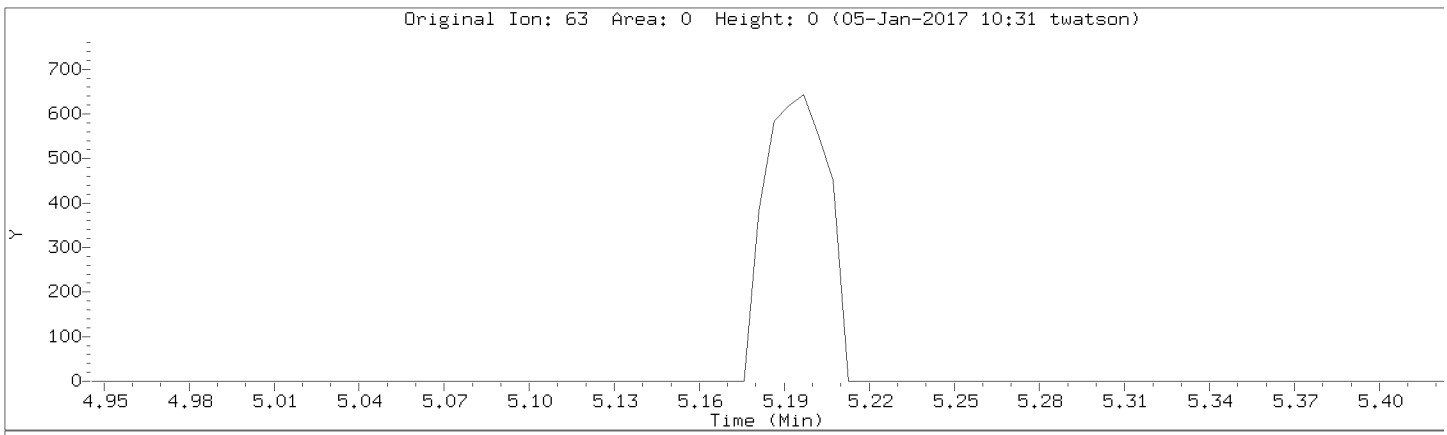
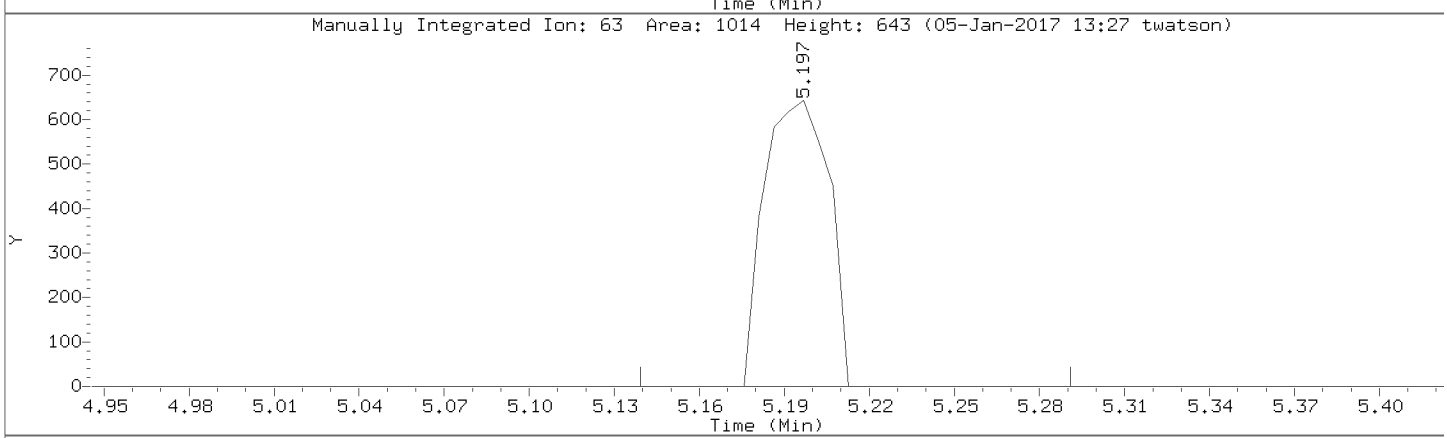
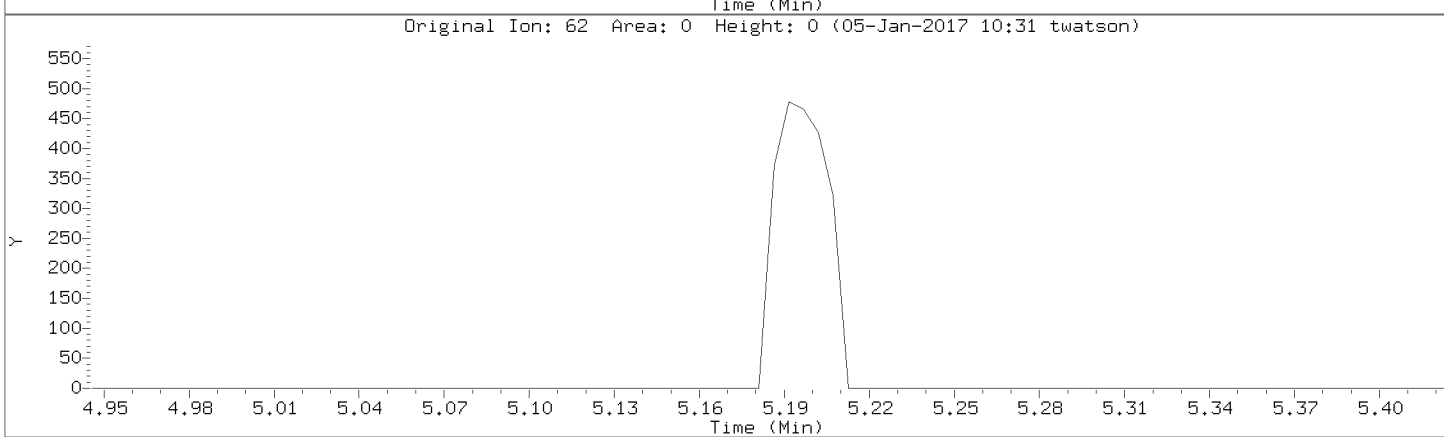
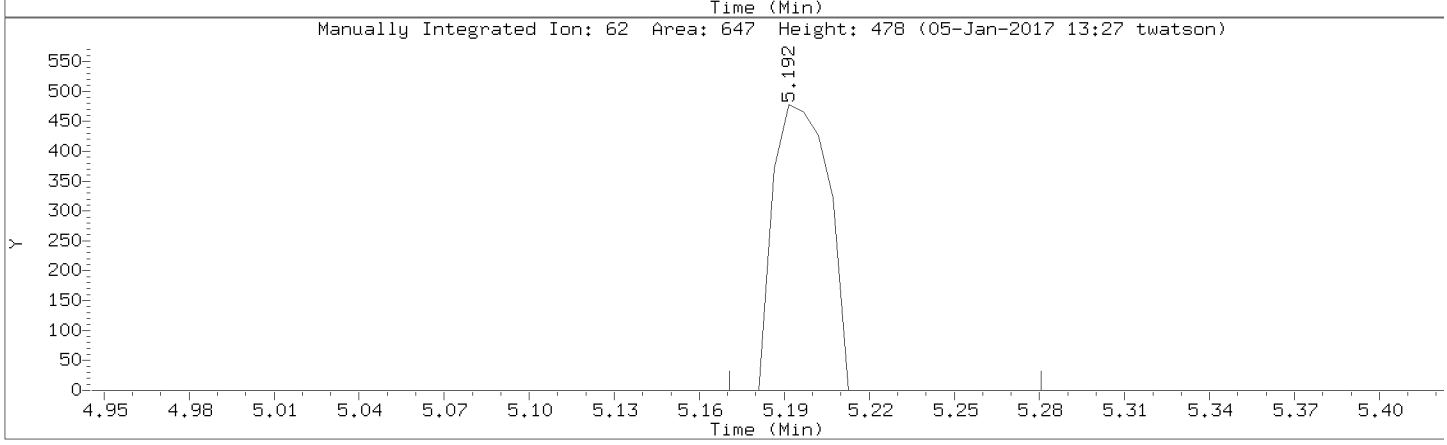
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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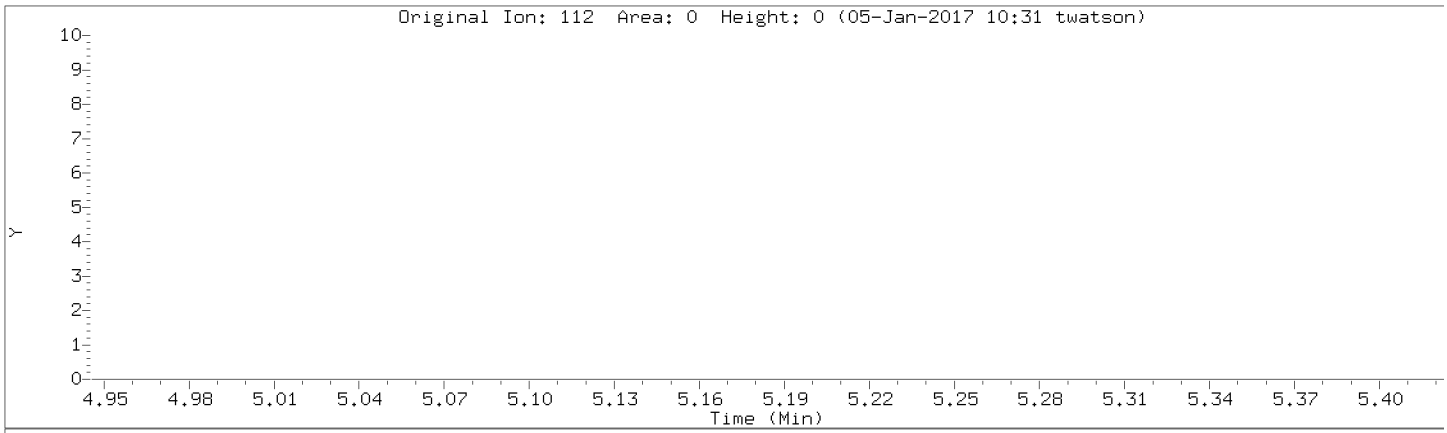
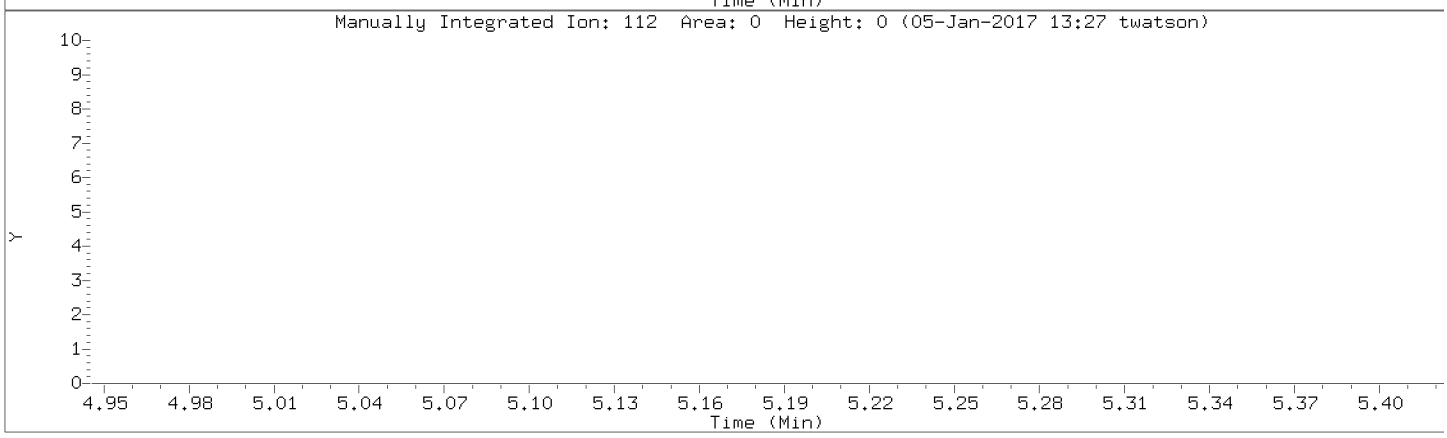
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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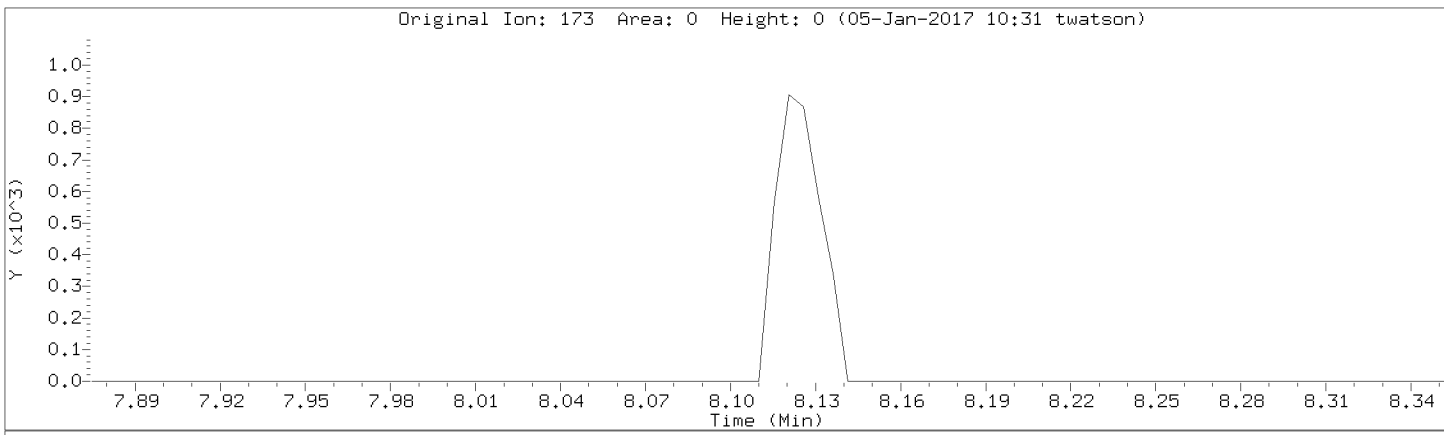
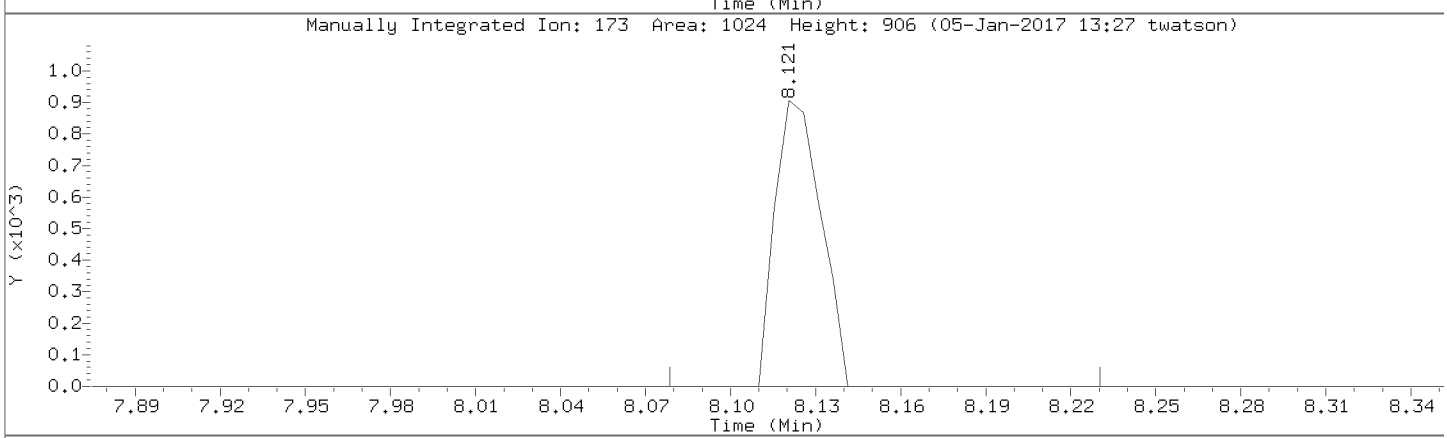
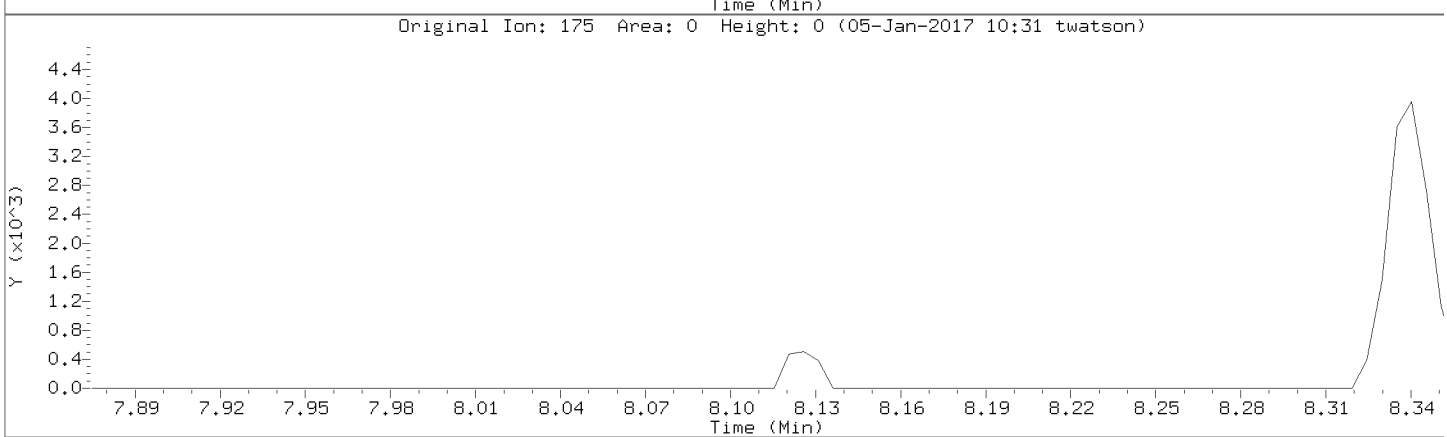
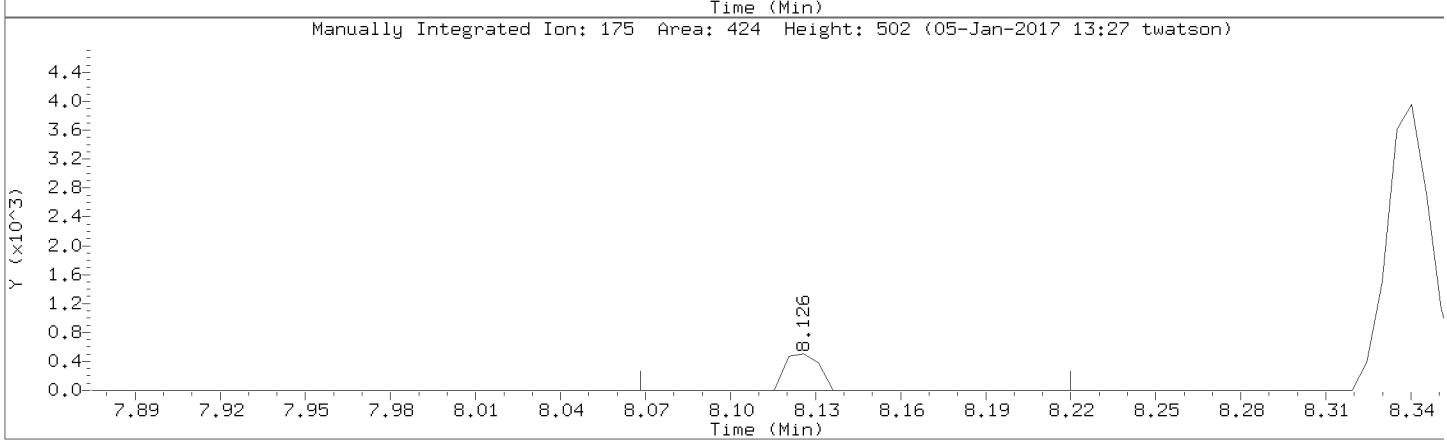
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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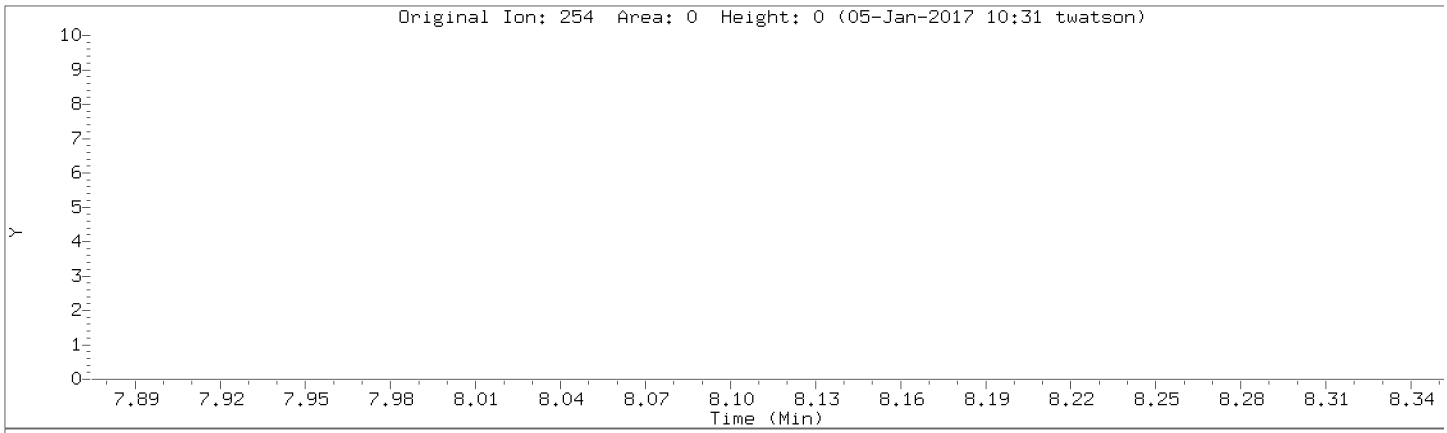
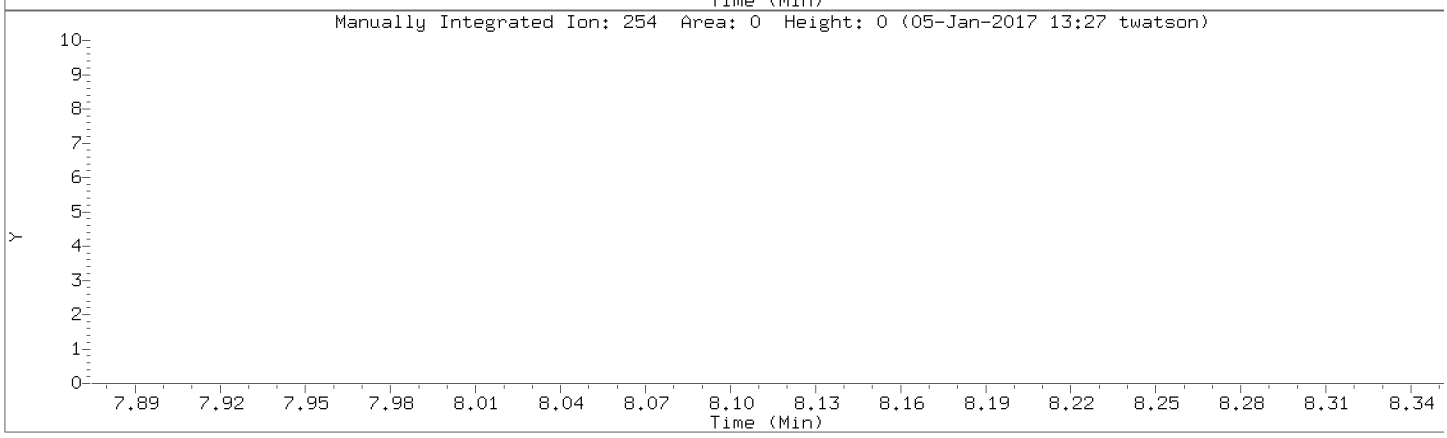
Lab Sample ID: 8260-CAL2,139197:0





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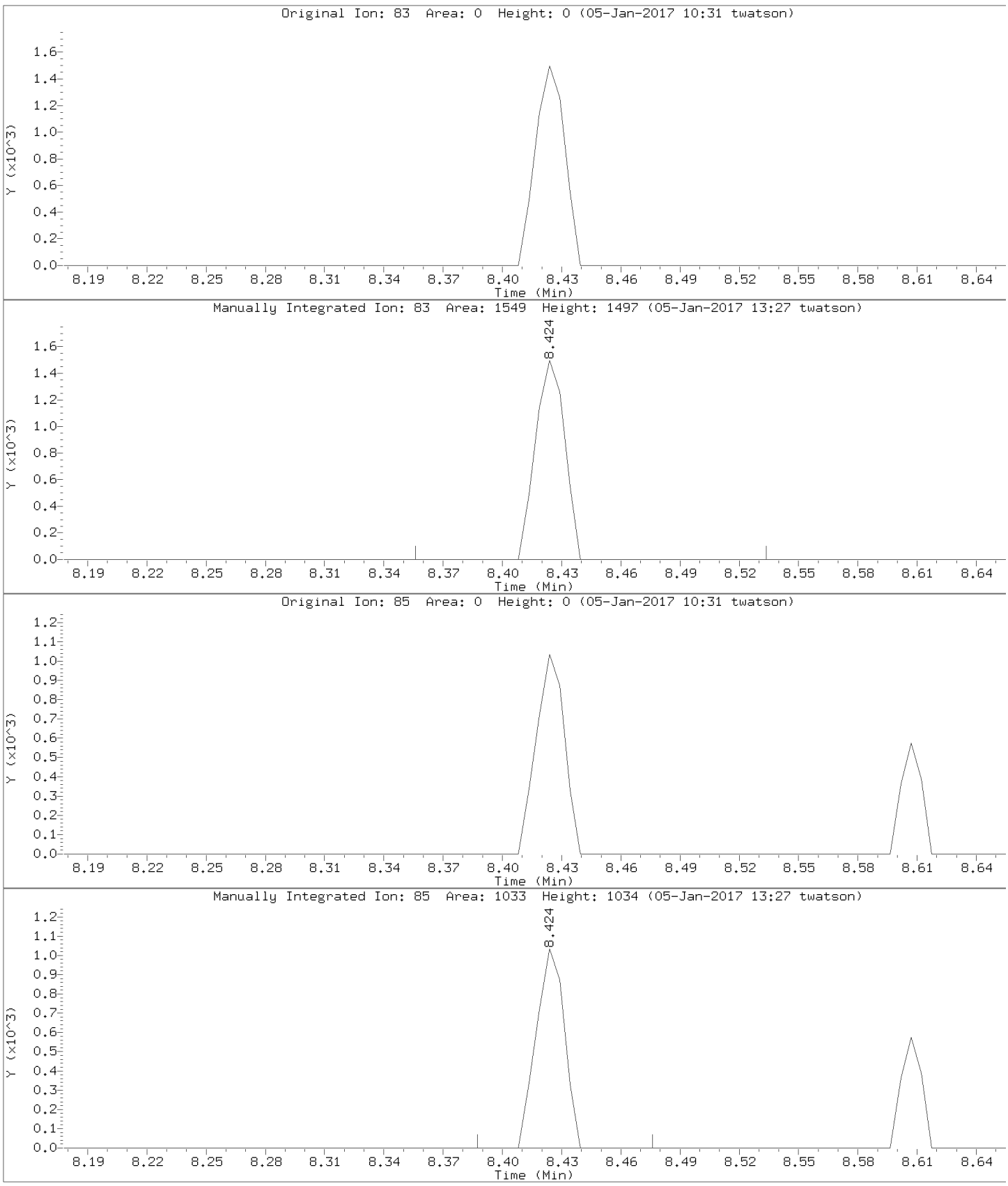
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5



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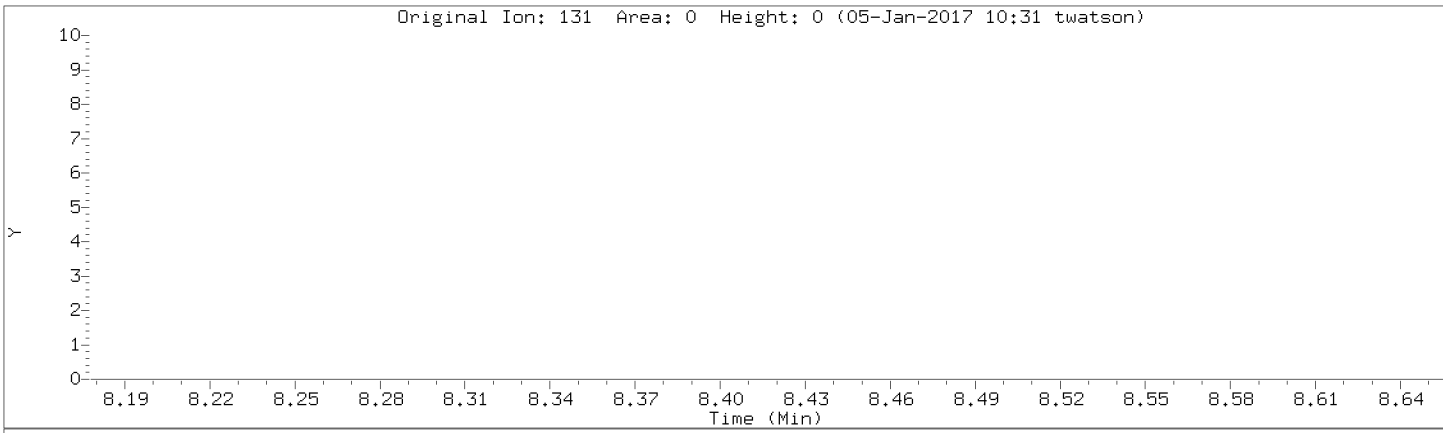
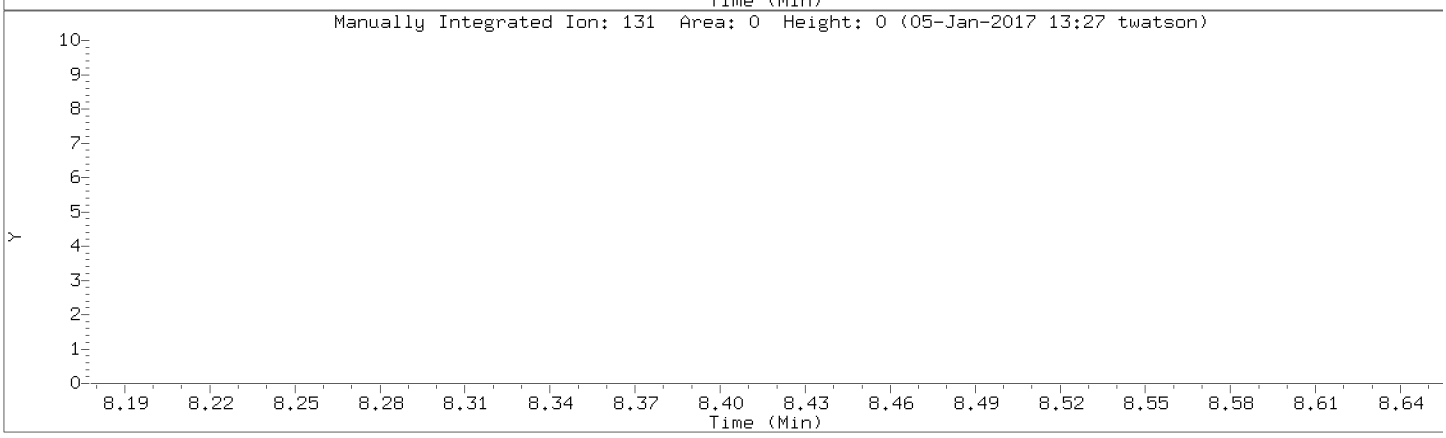
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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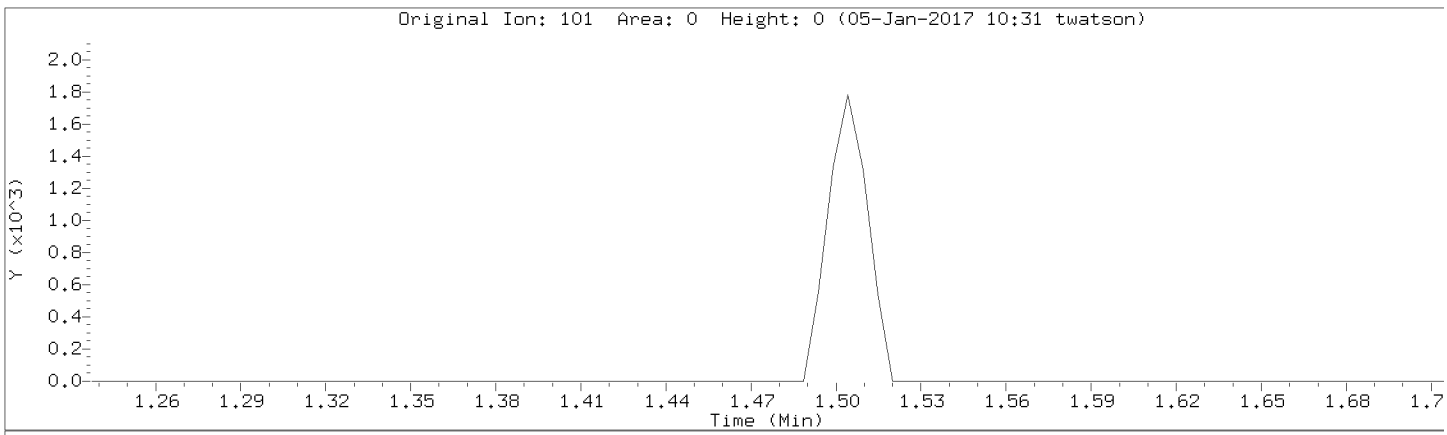
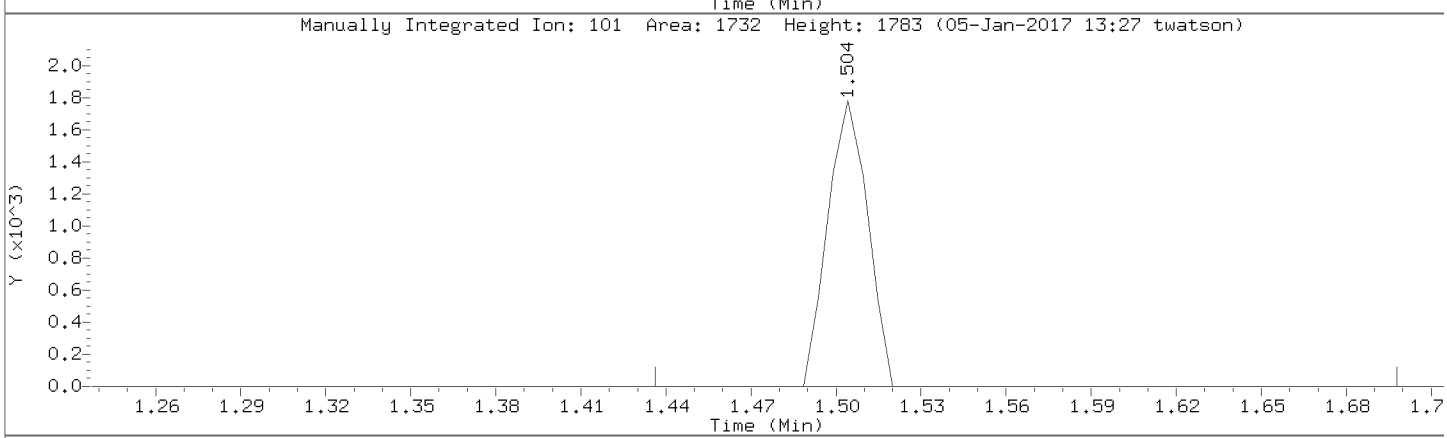
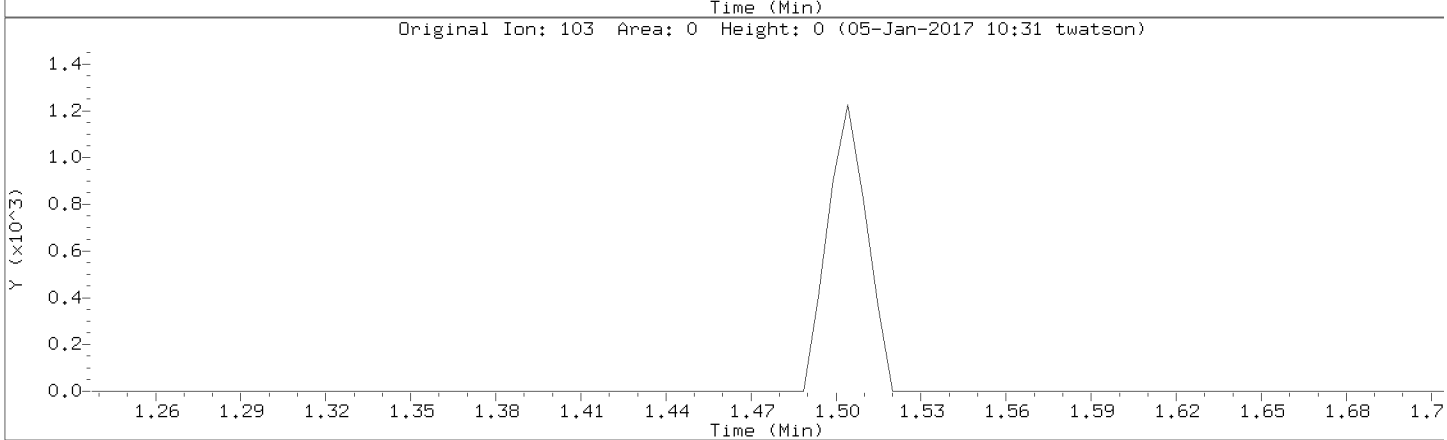
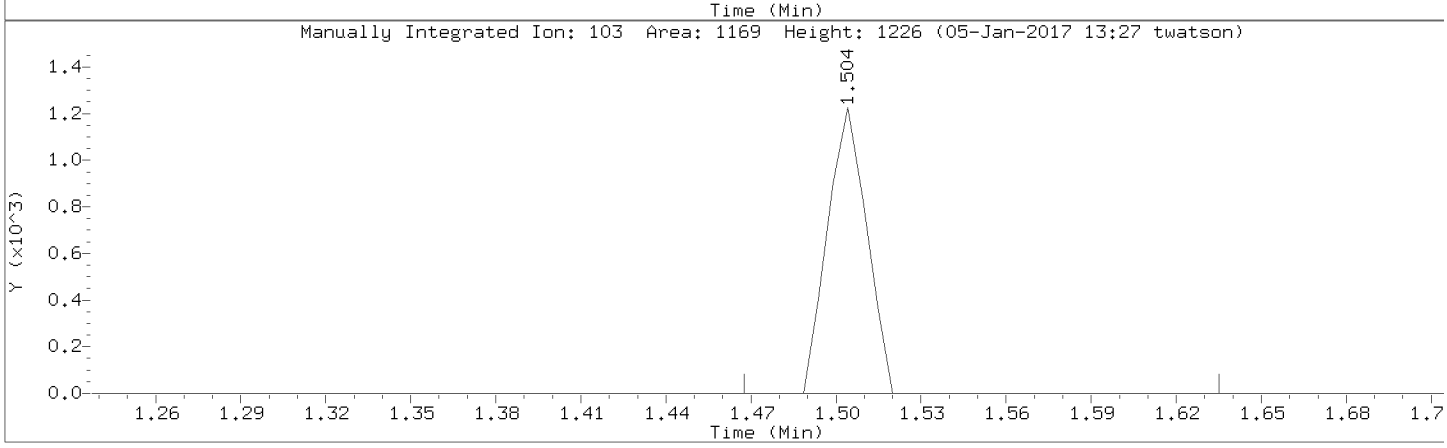
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Trichlorofluoromethane Review Code: NI
CAS Number: 75-69-4









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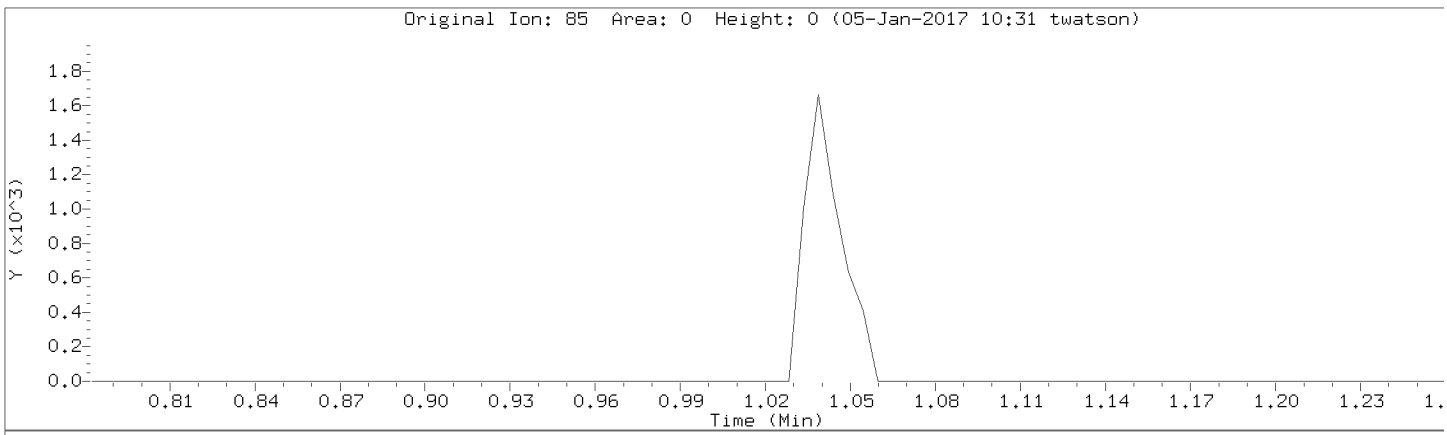
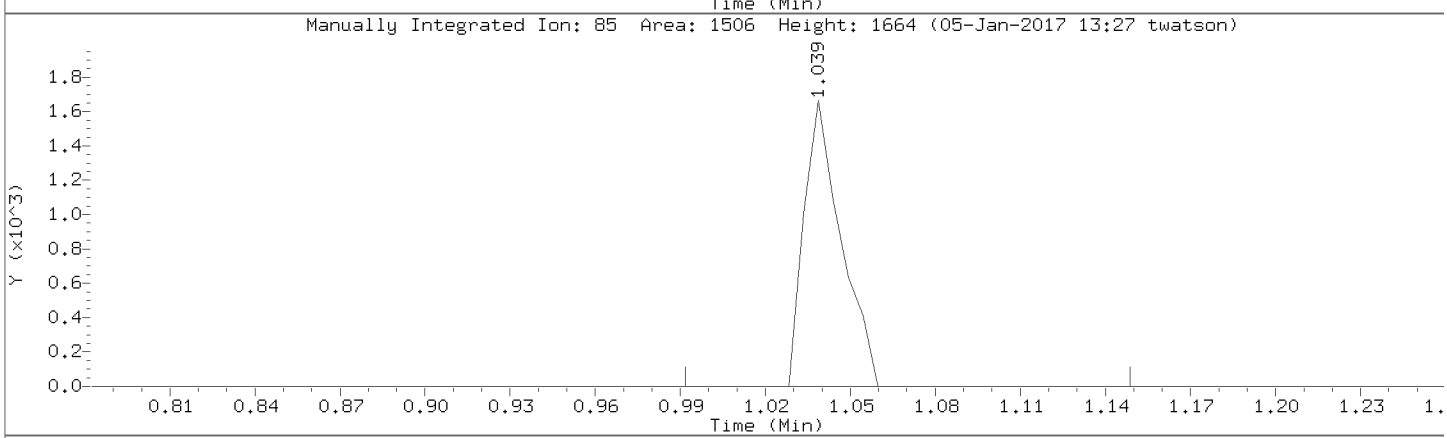
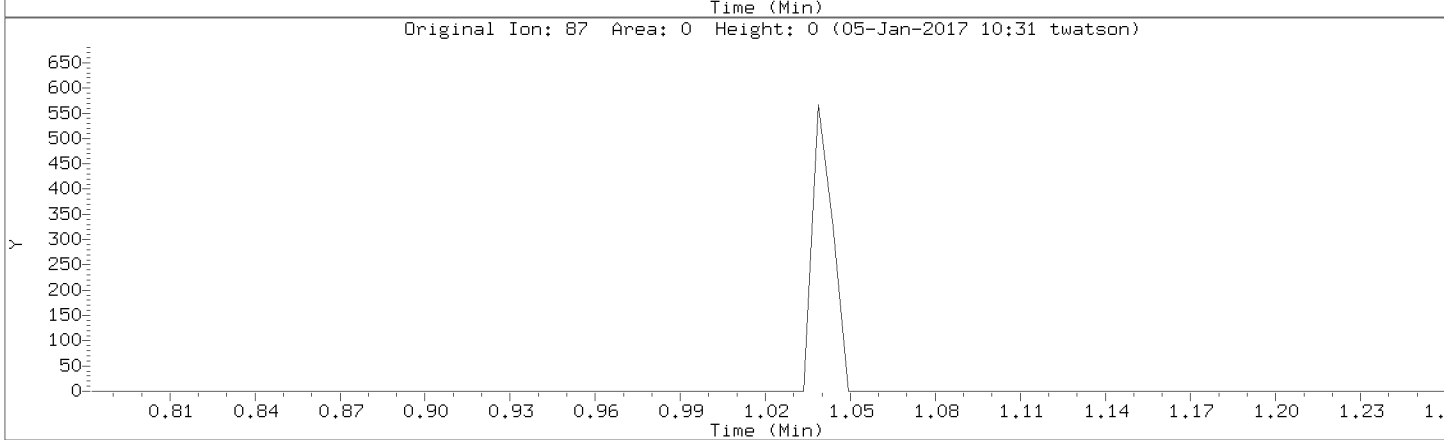
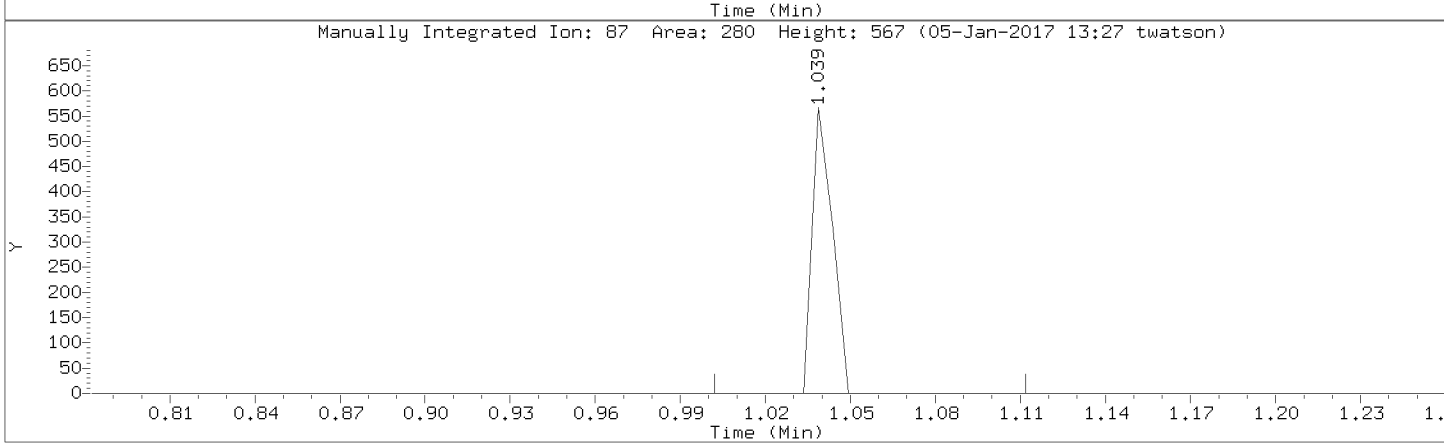
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-09-2









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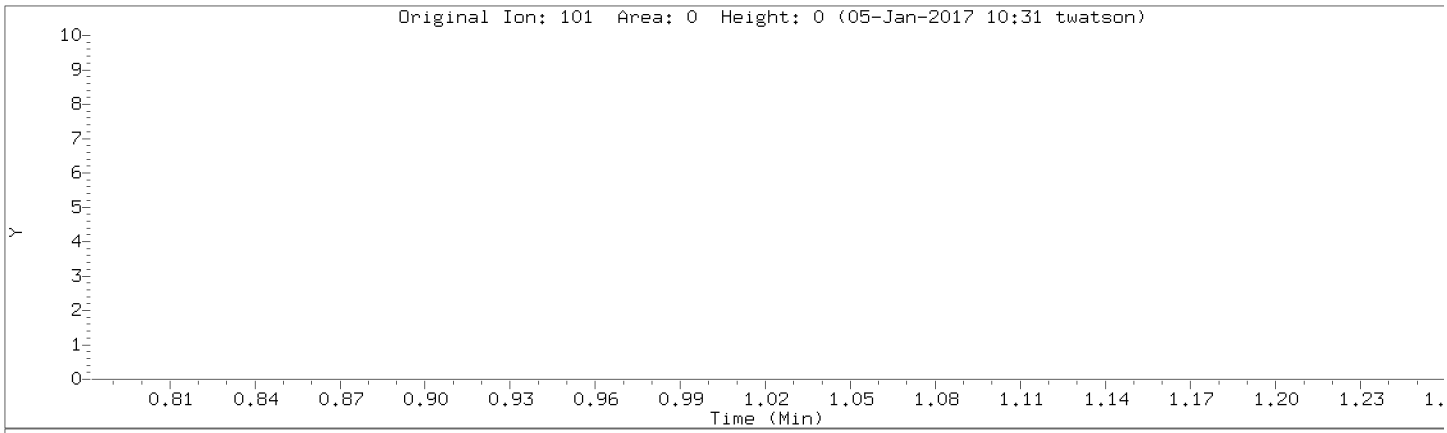
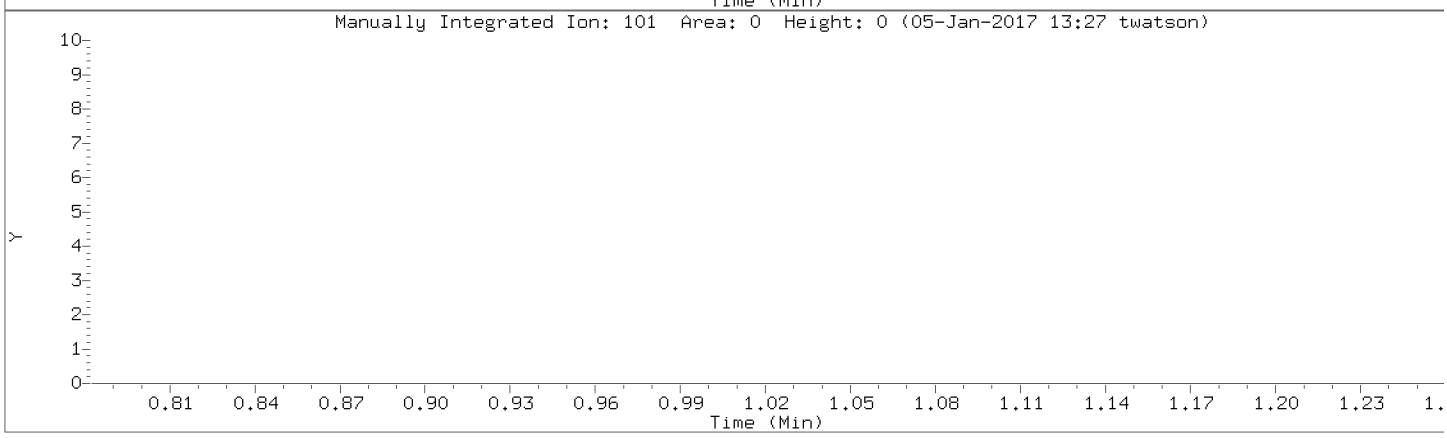
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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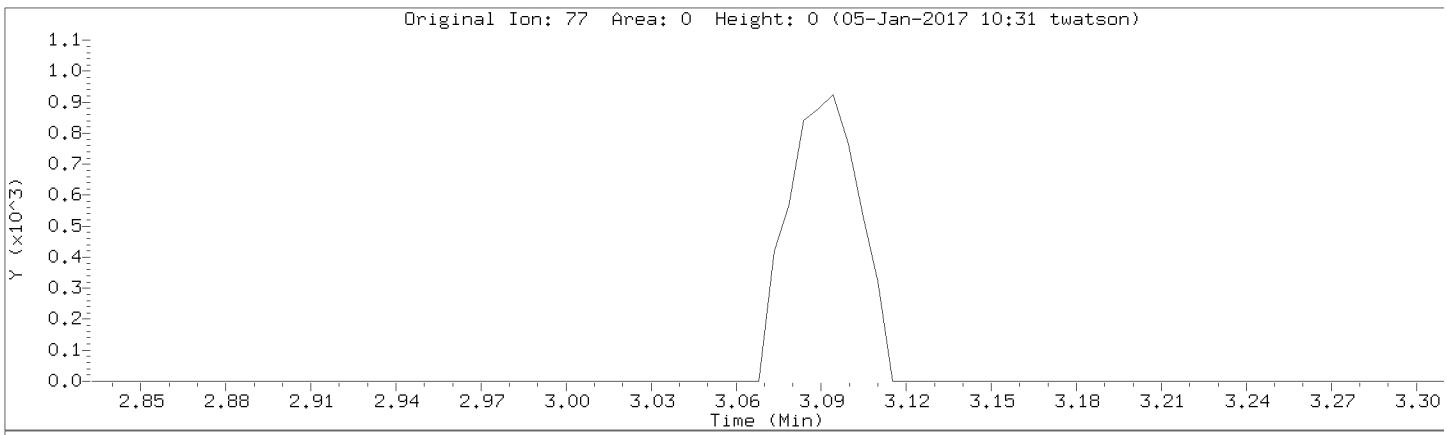
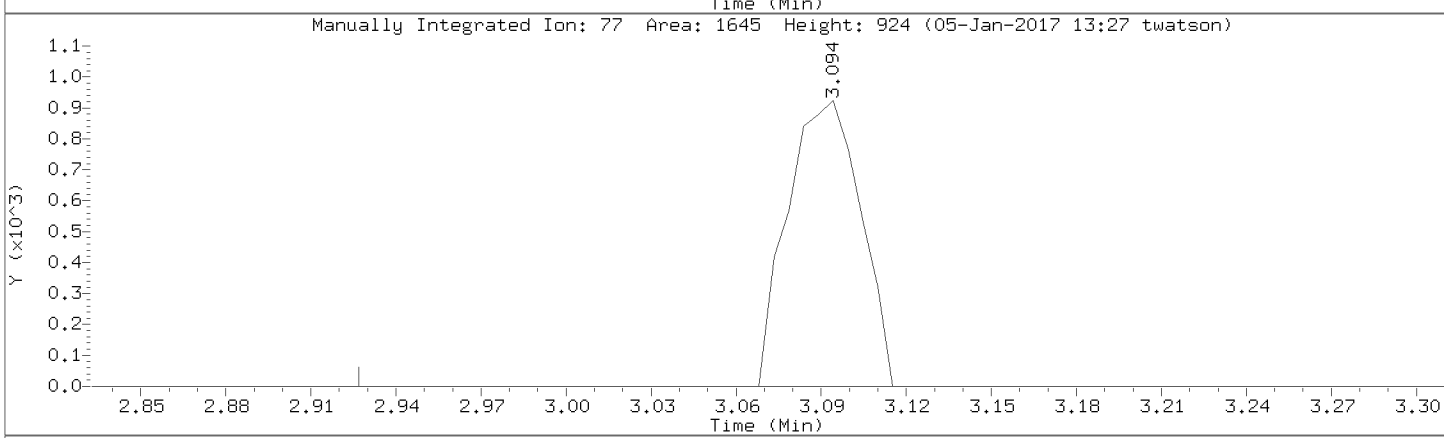
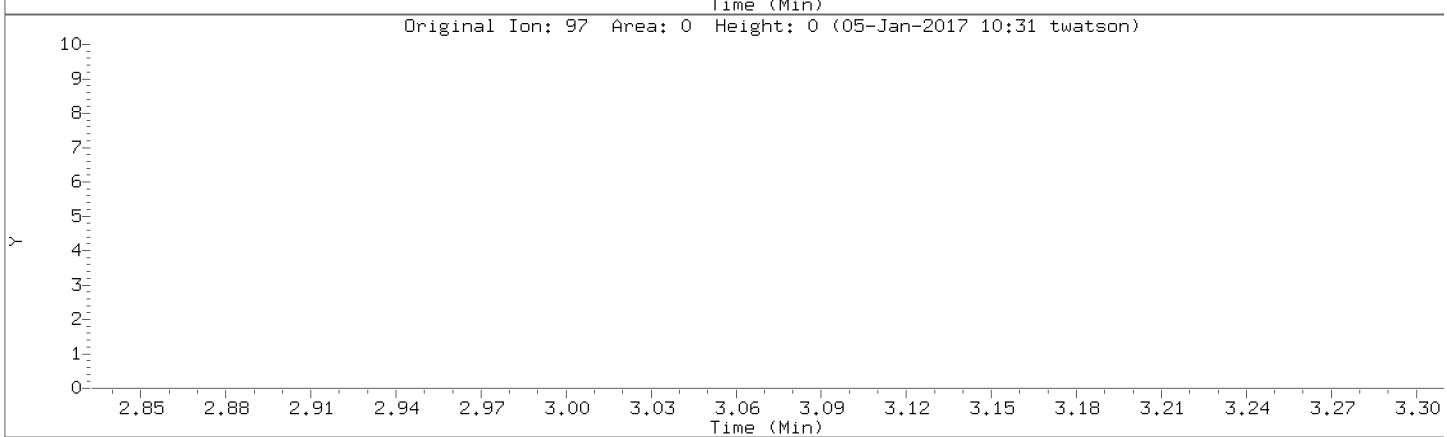
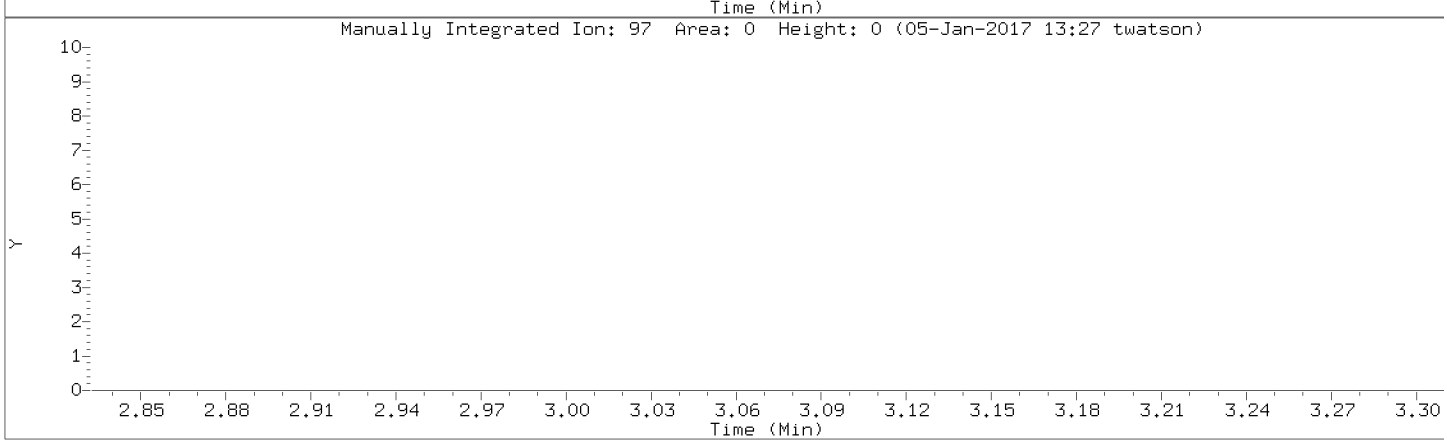
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7



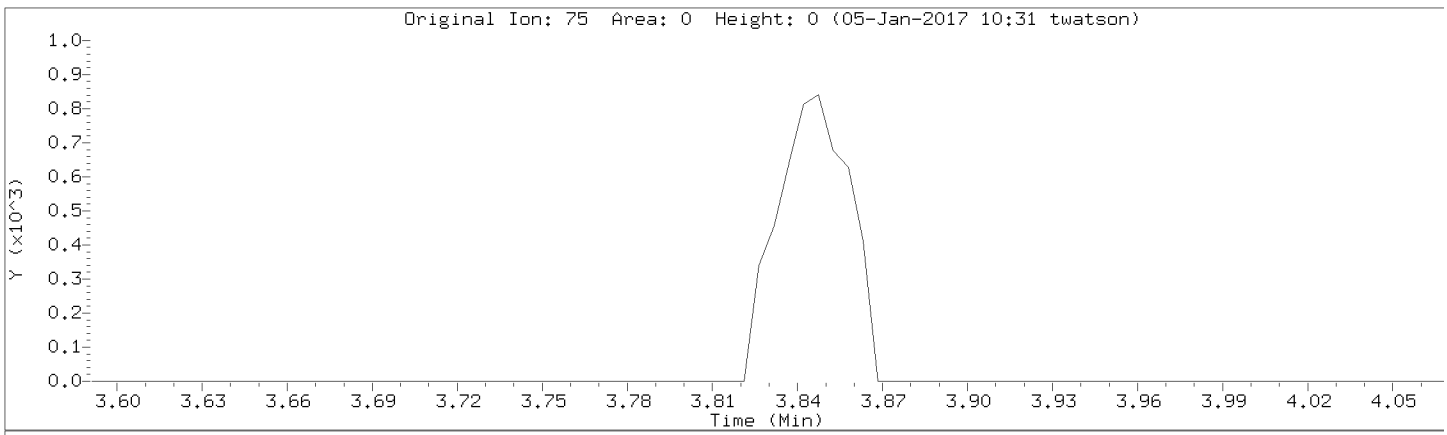


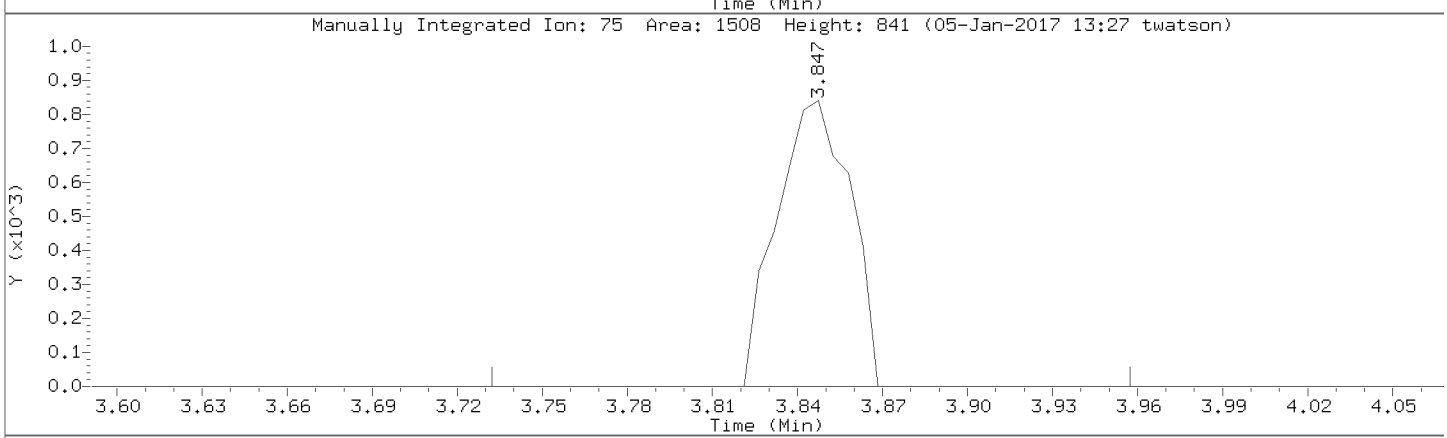


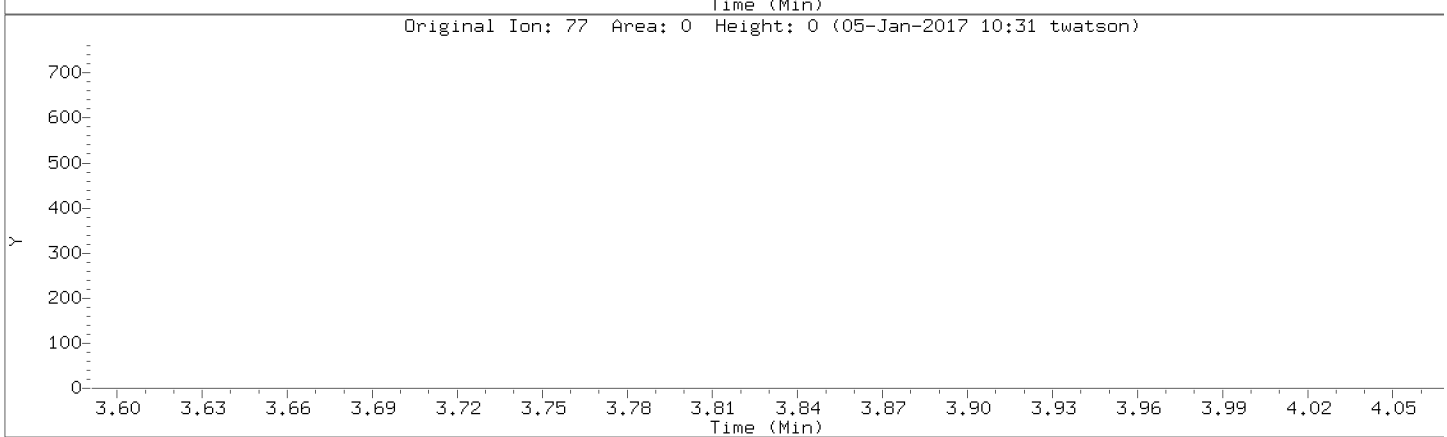


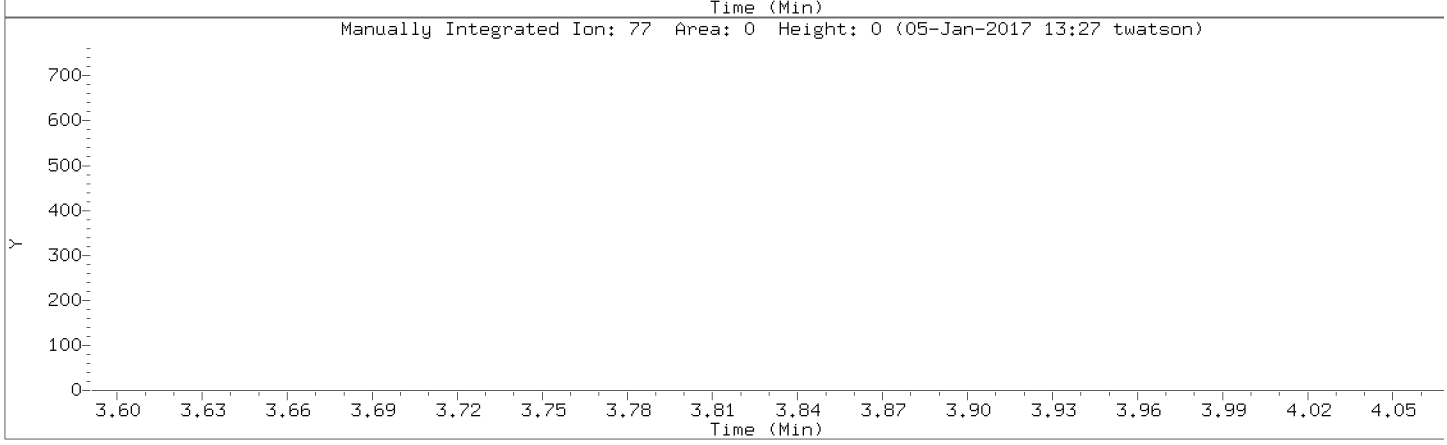
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
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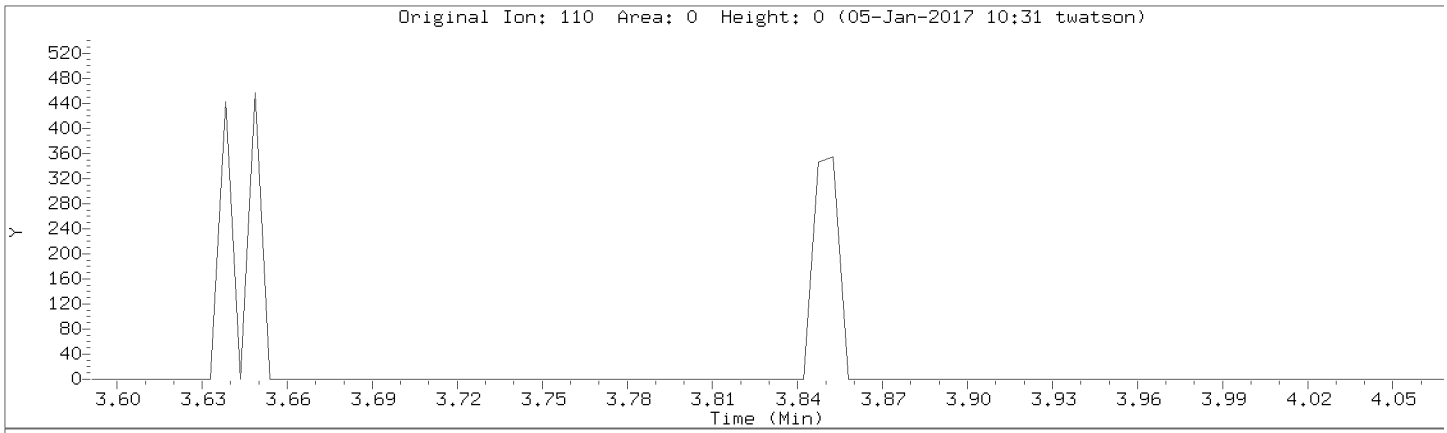
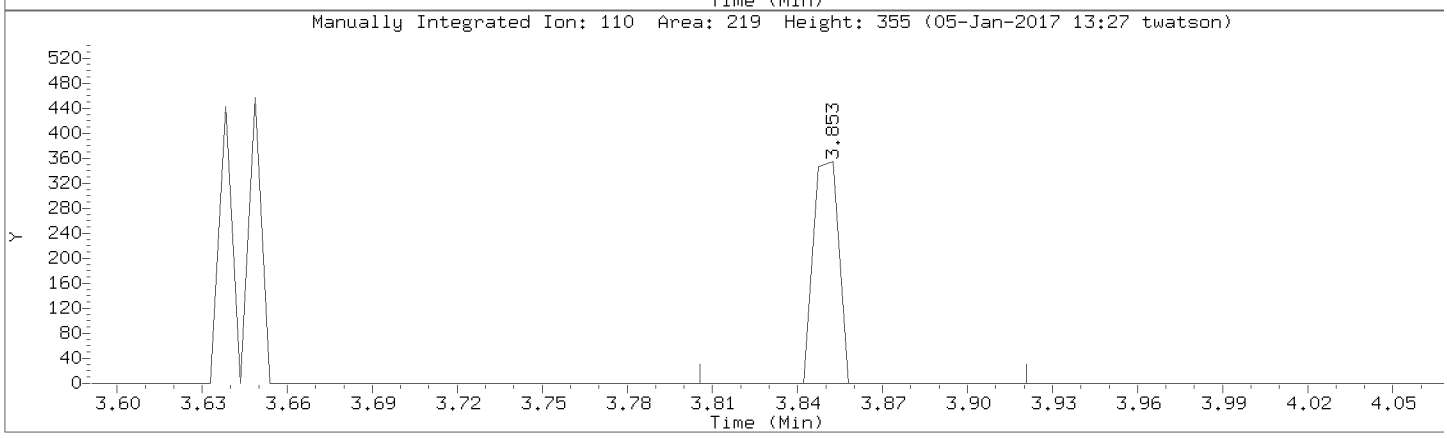
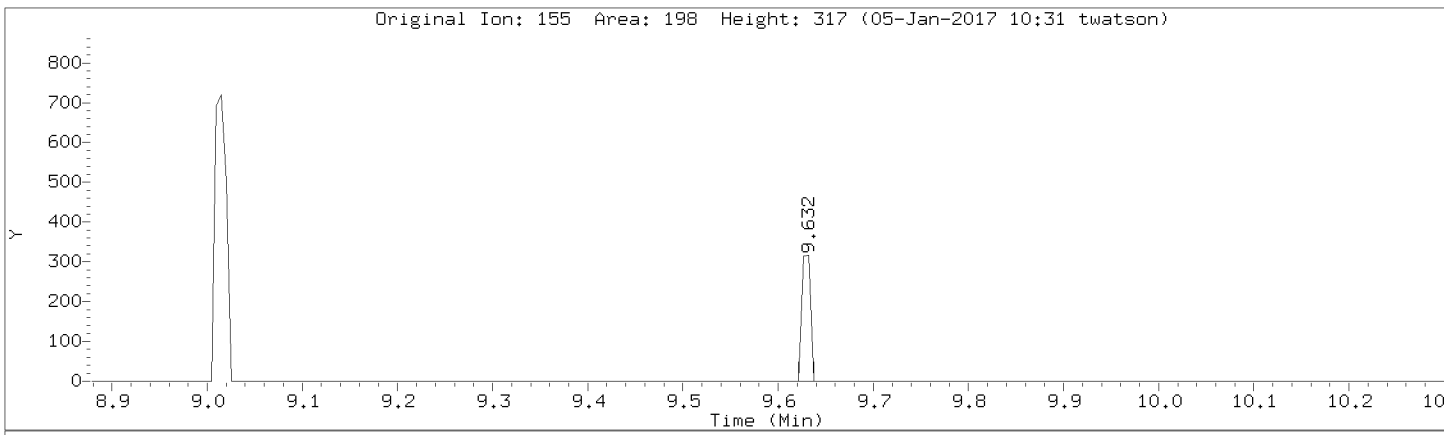
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

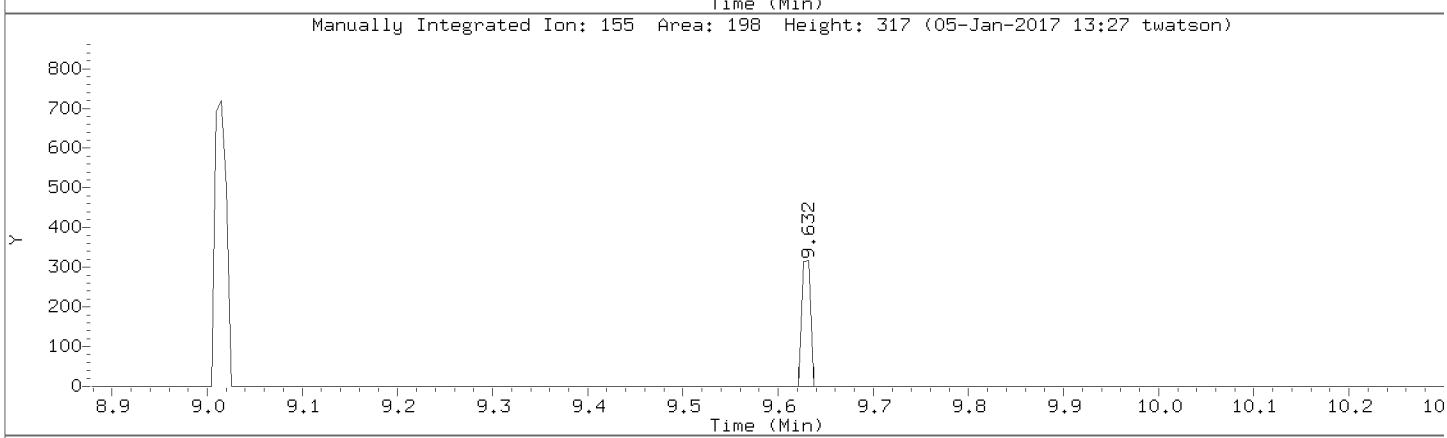


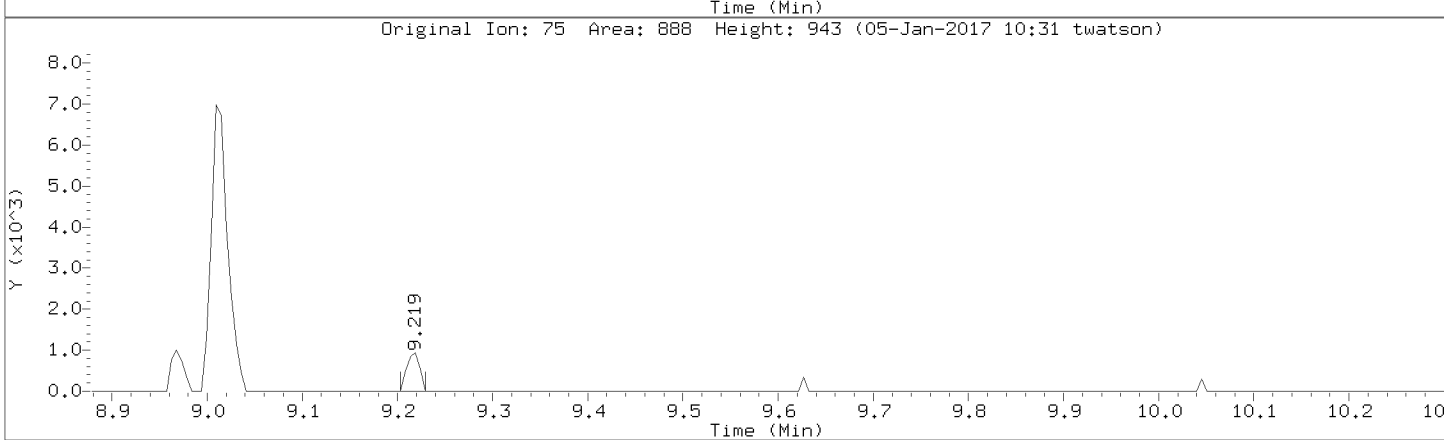


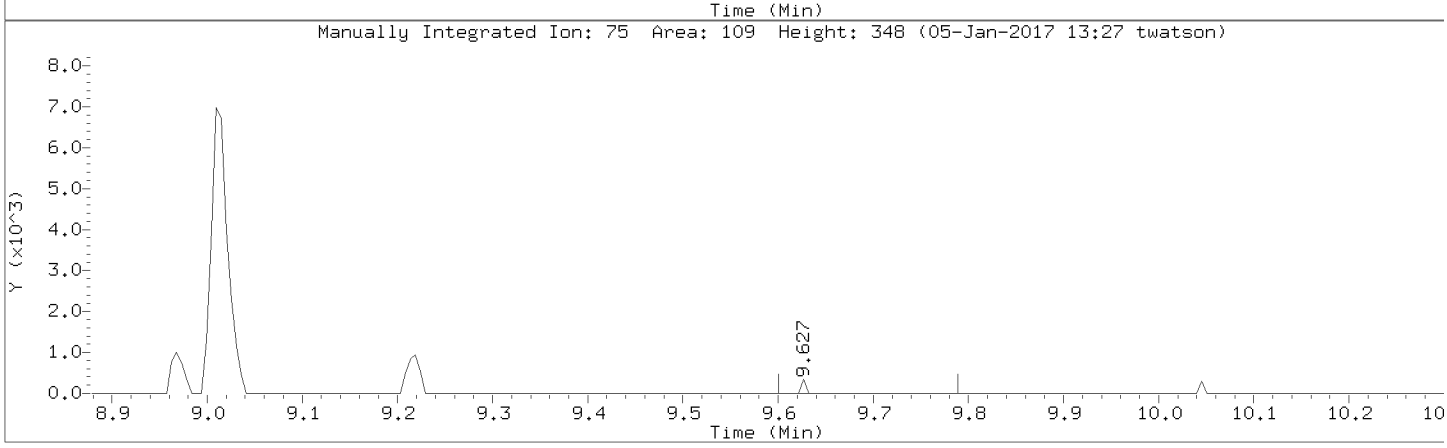
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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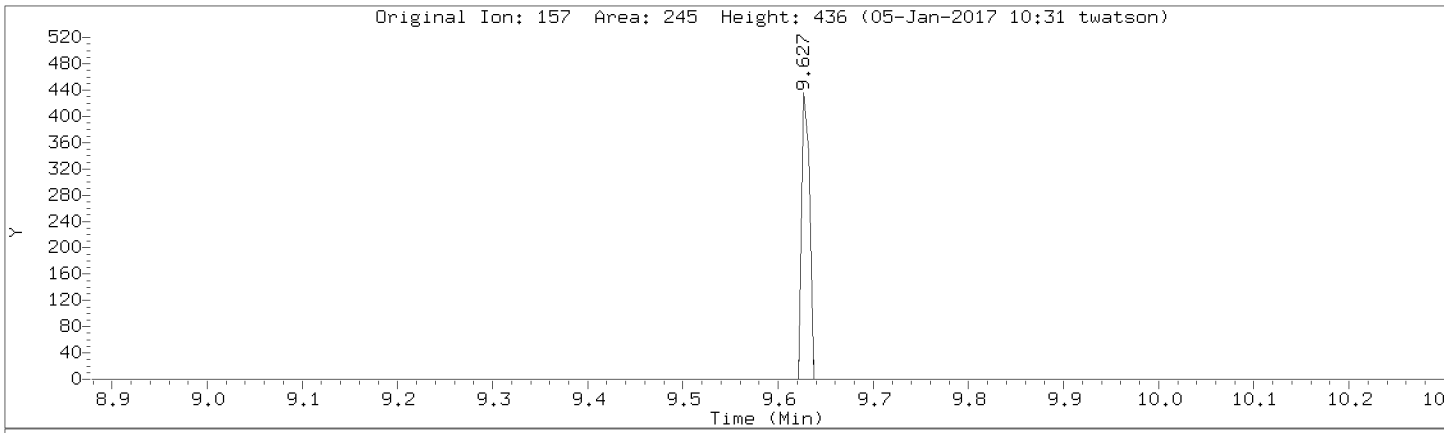
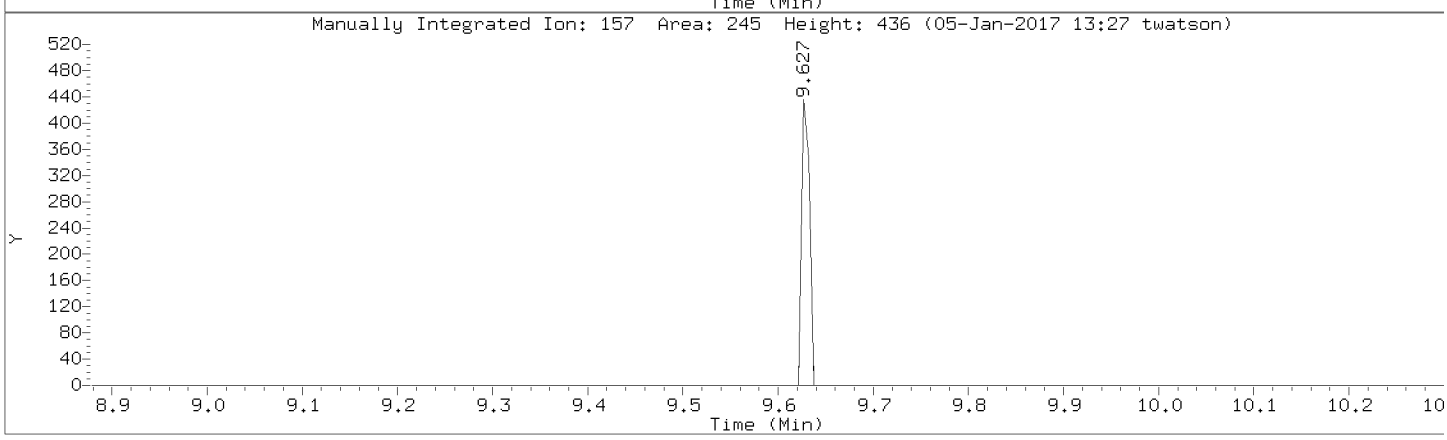
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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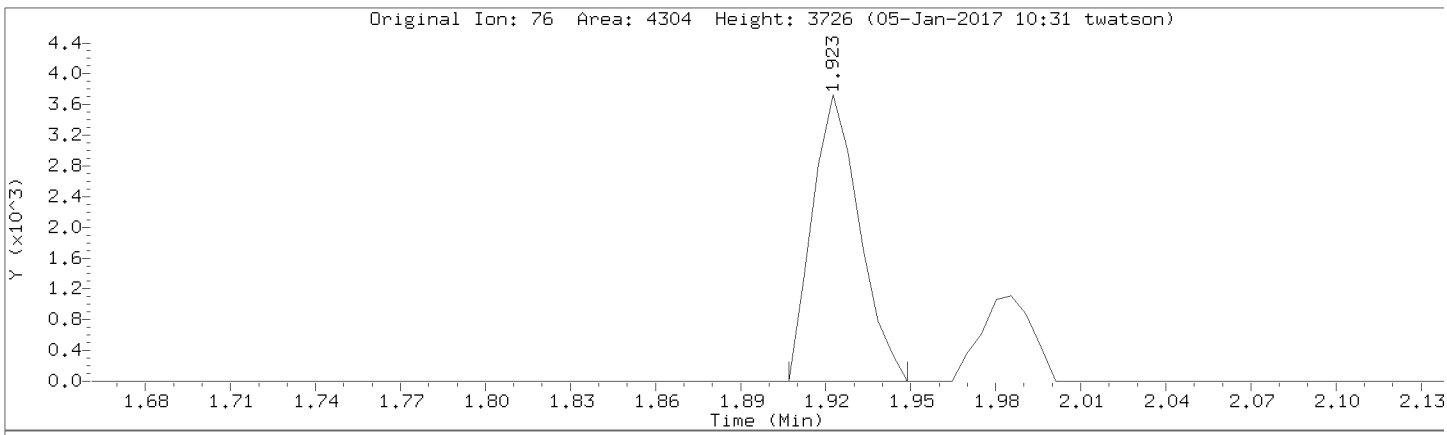
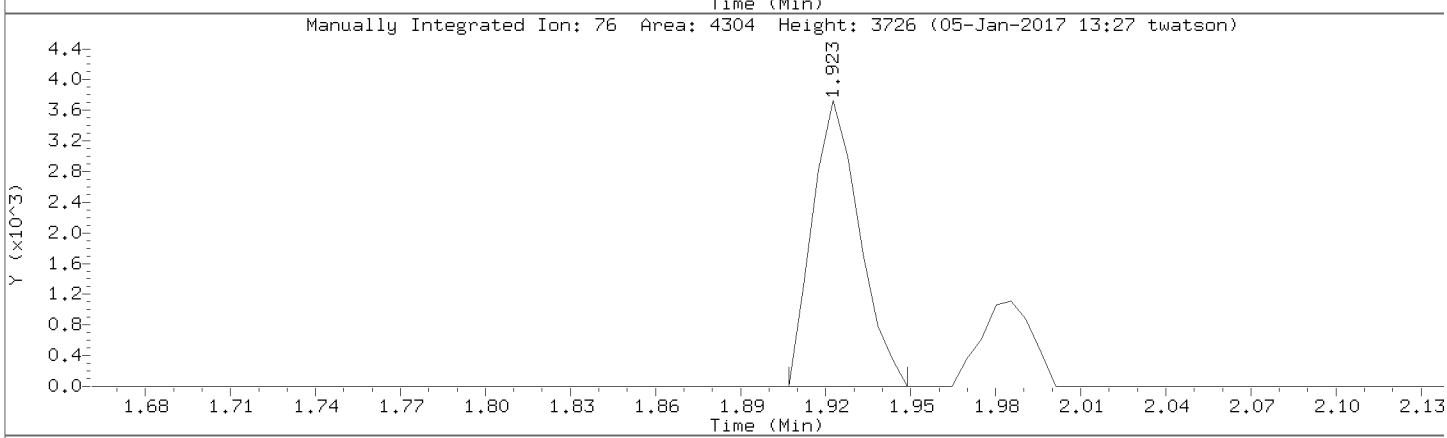
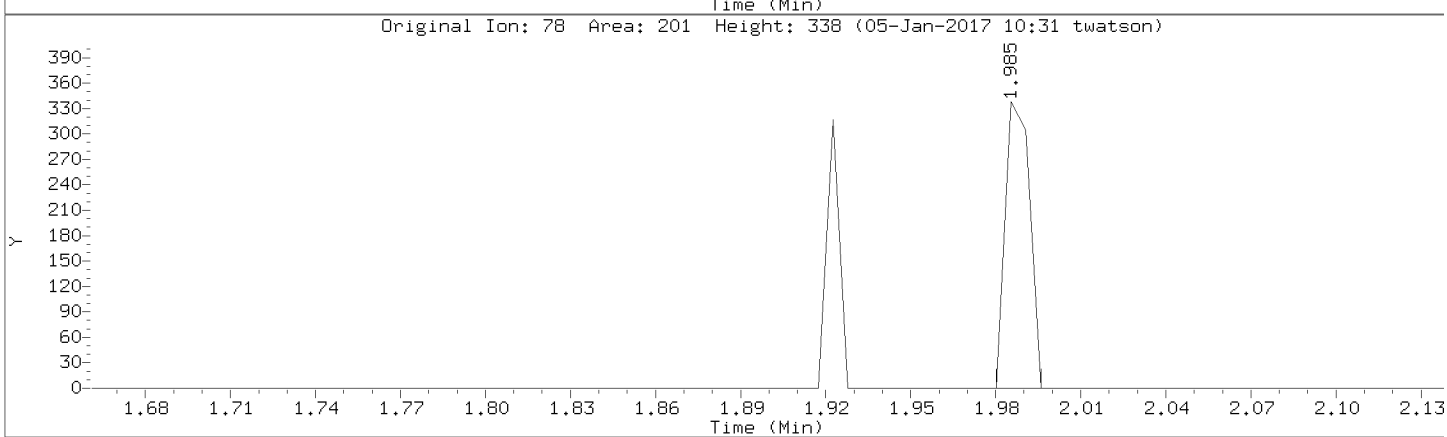
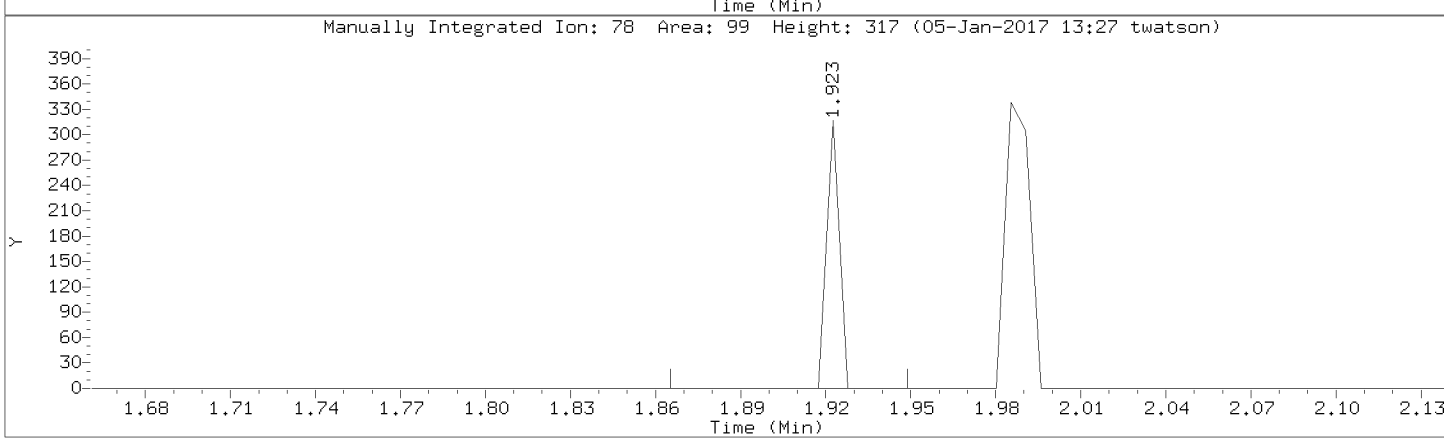
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Carbon Disulfide Review Code: NI
CAS Number: 75-15-0









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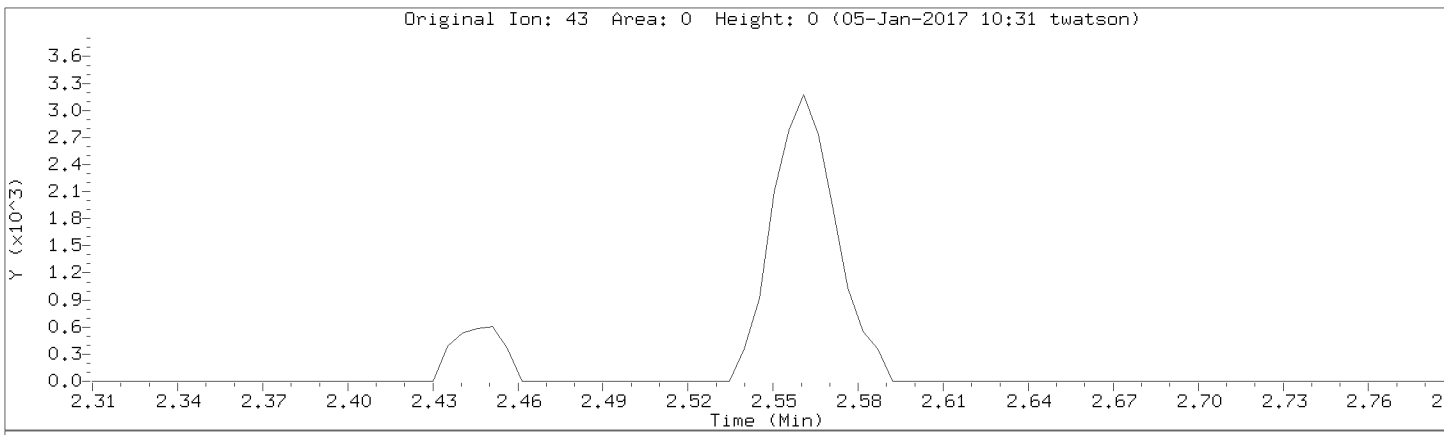
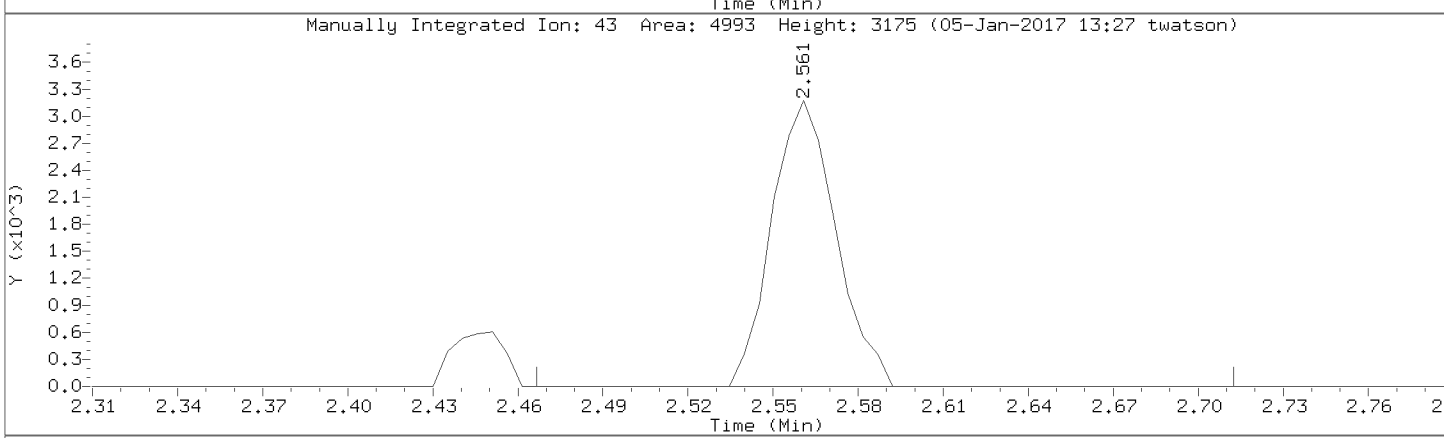
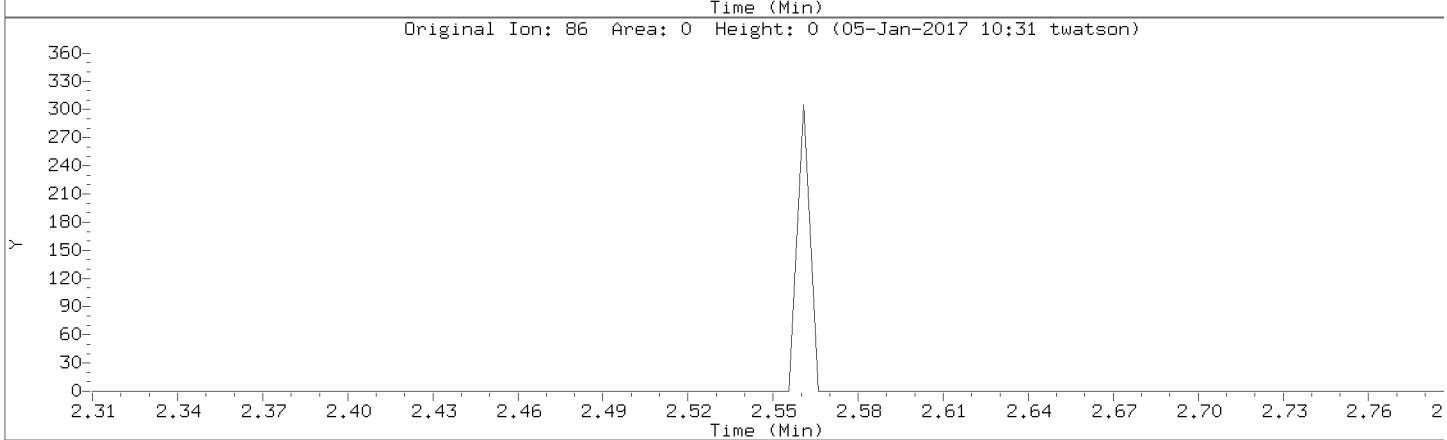
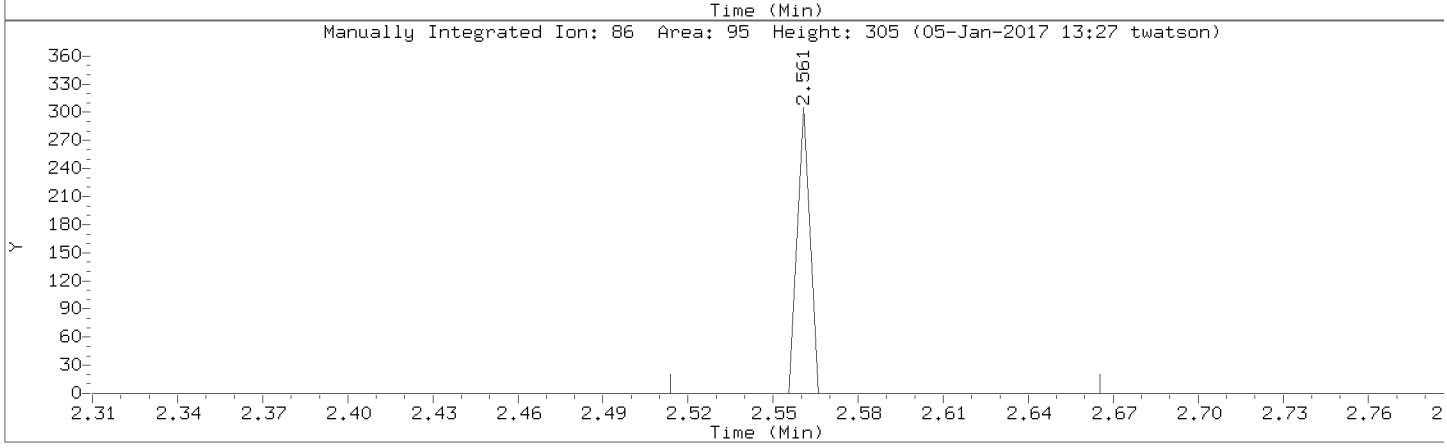
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Vinyl Acetate Review Code: NI
CAS Number: 108-05-4









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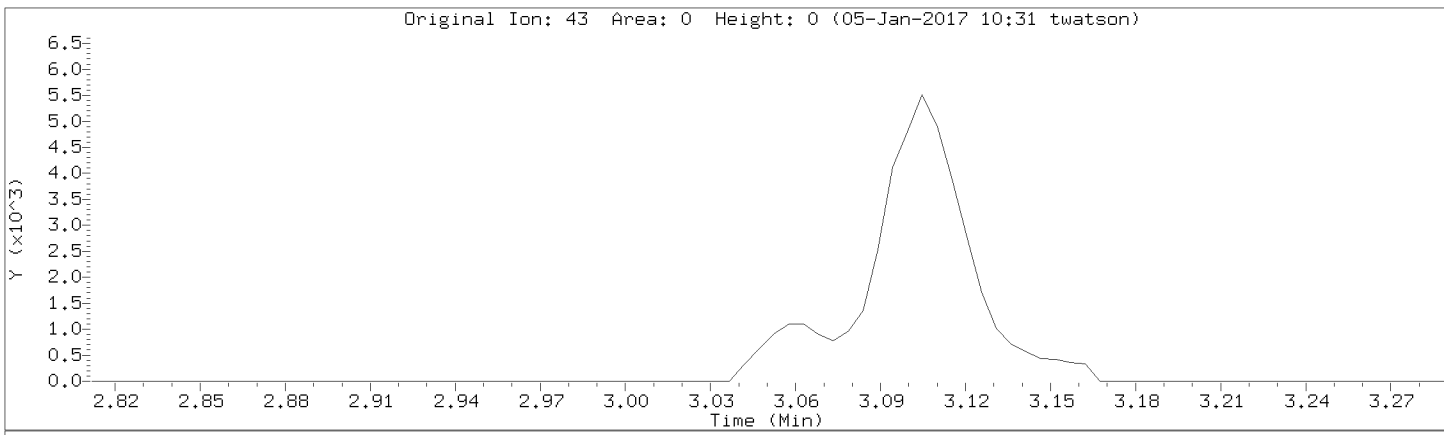
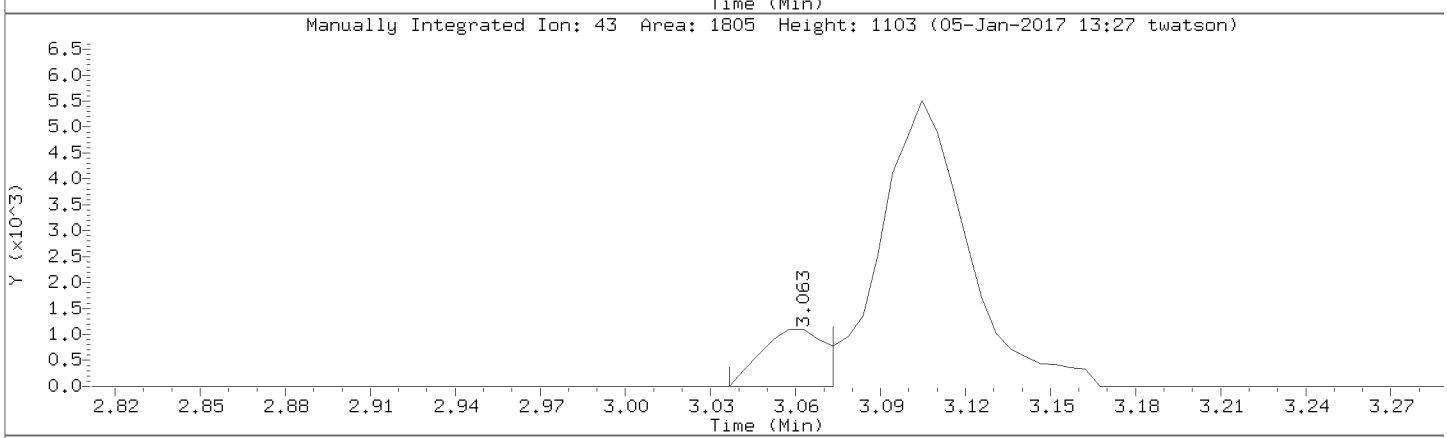
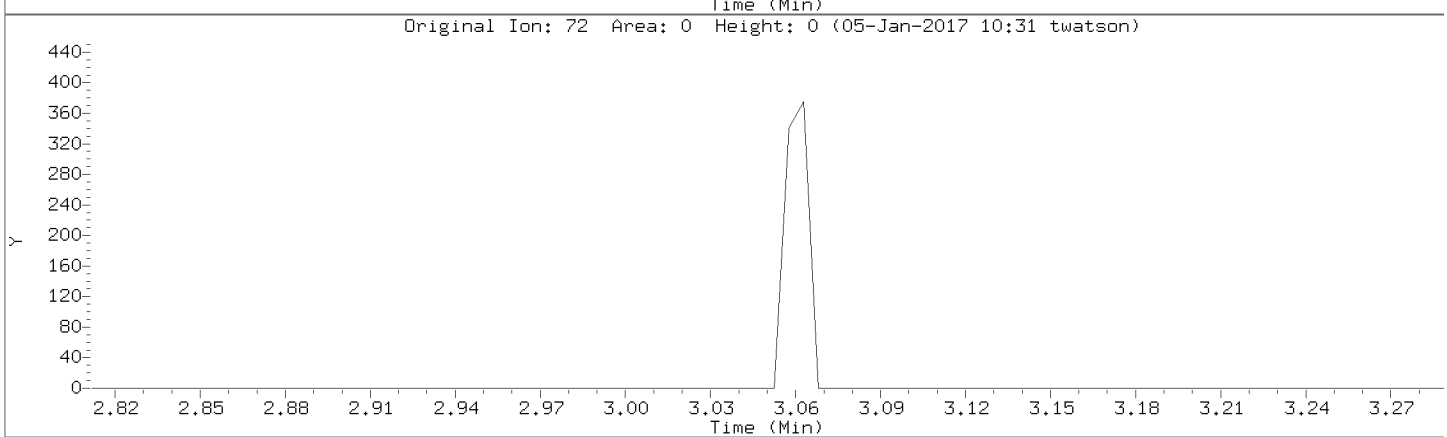
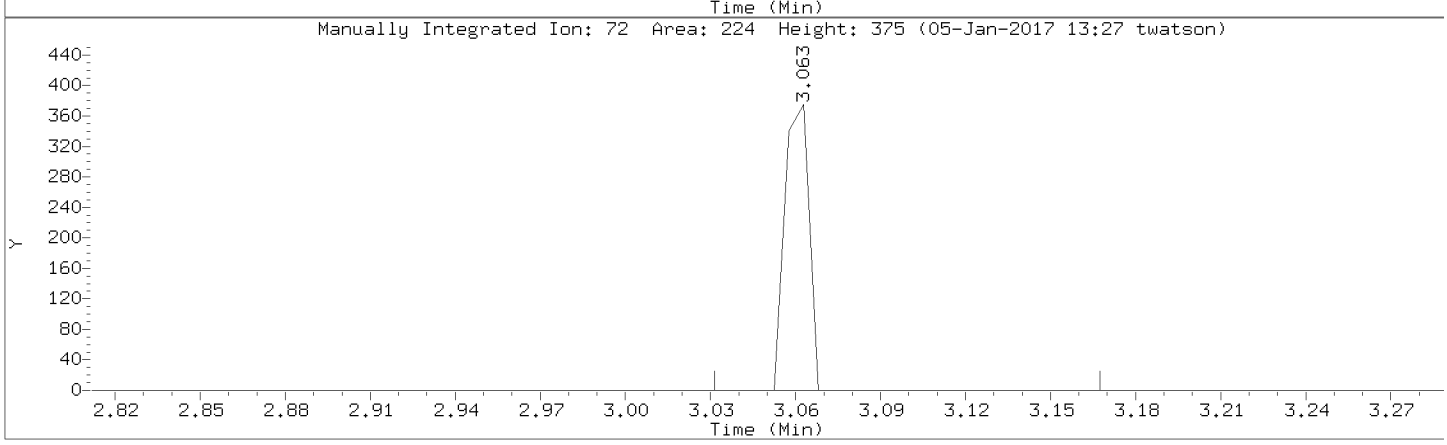
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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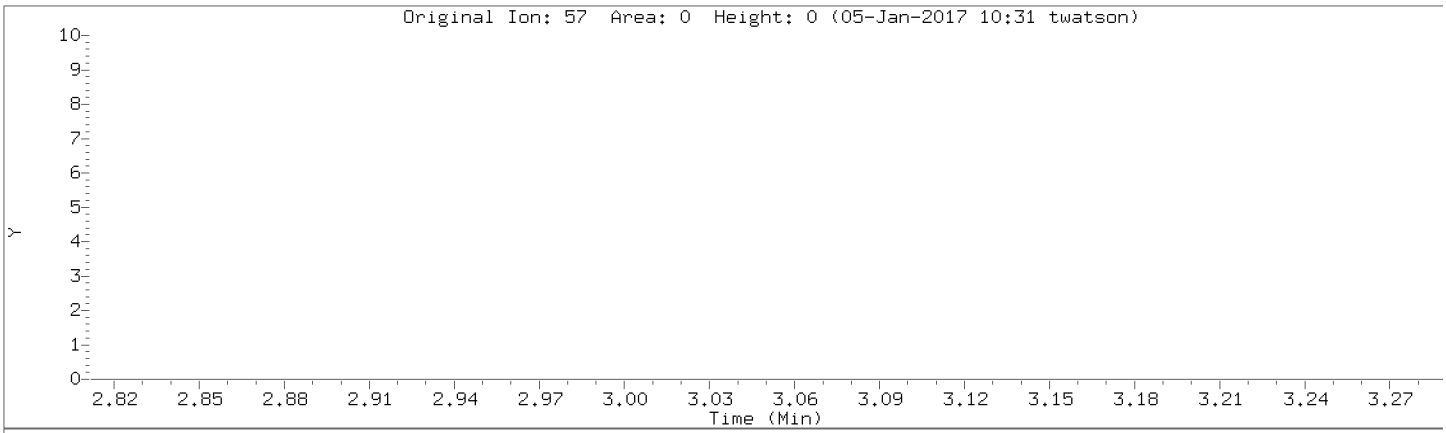
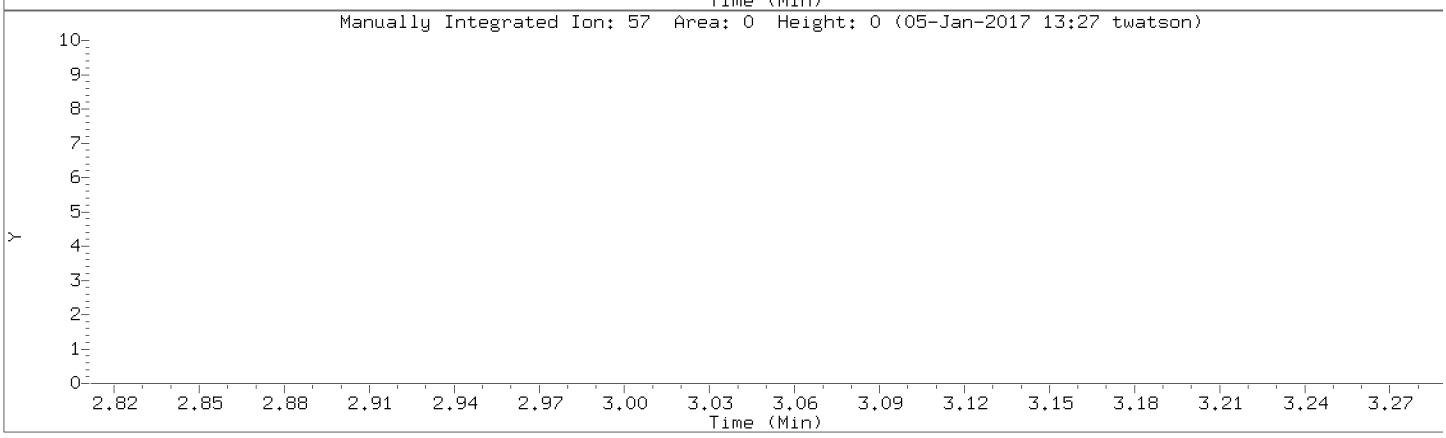
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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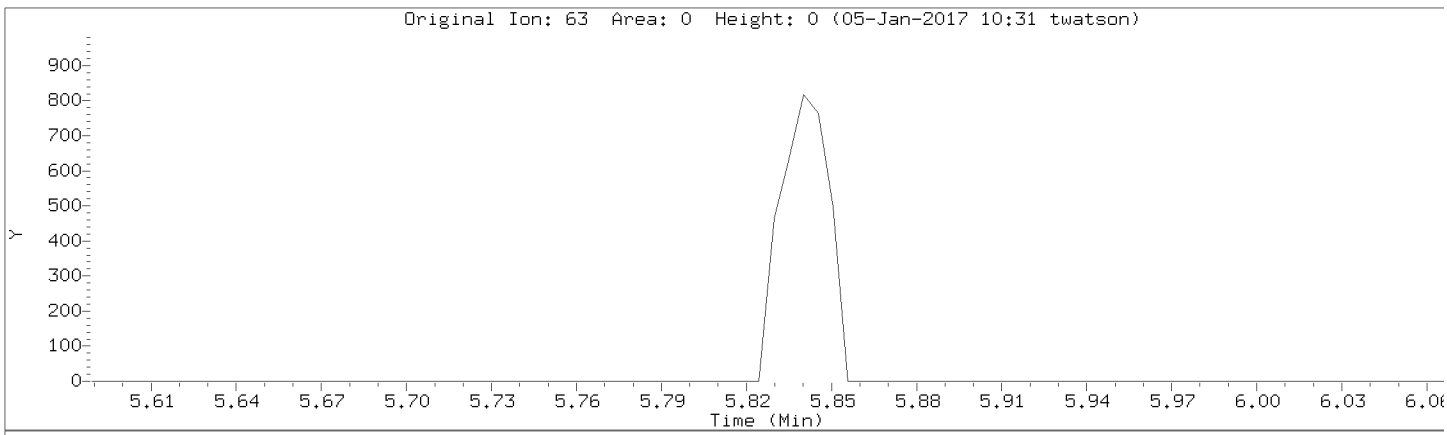
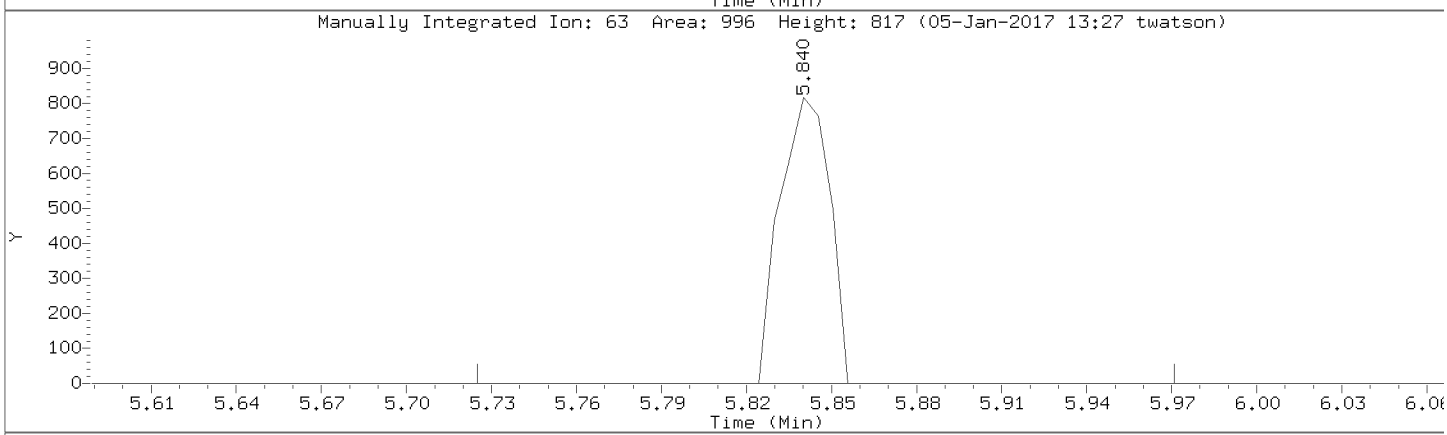
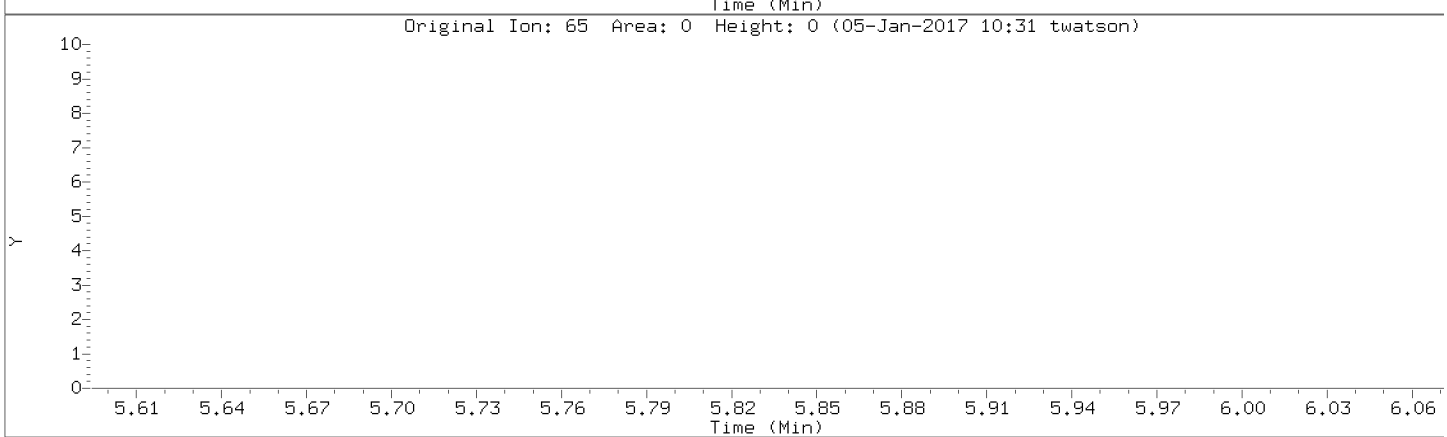
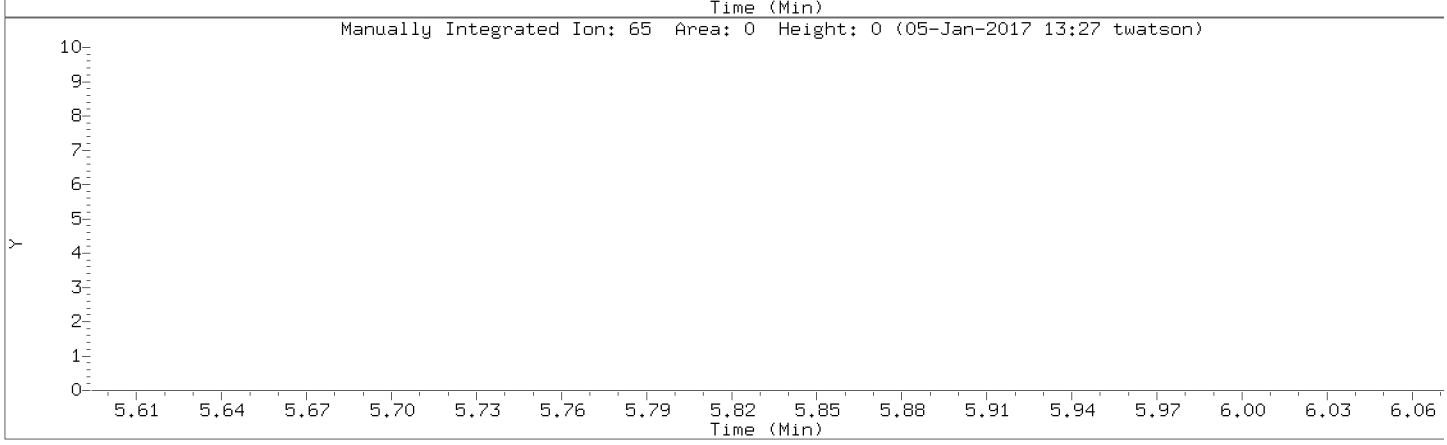
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8









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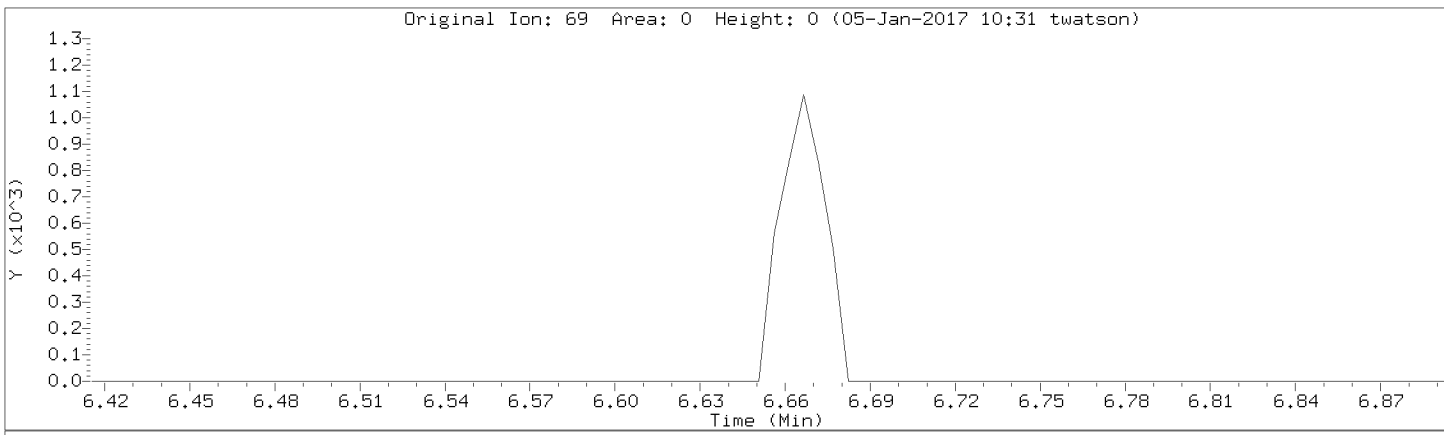
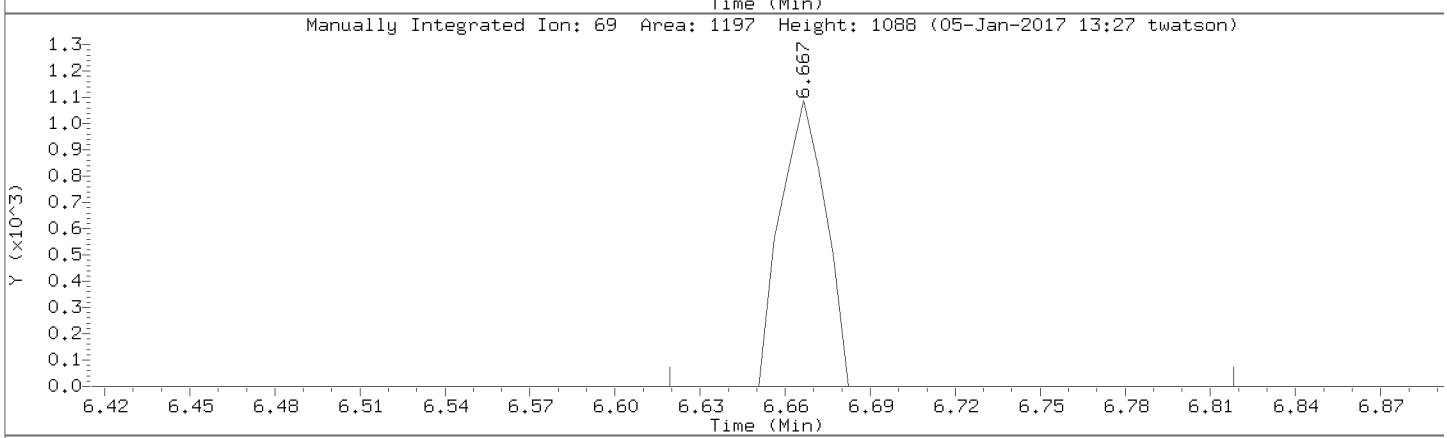
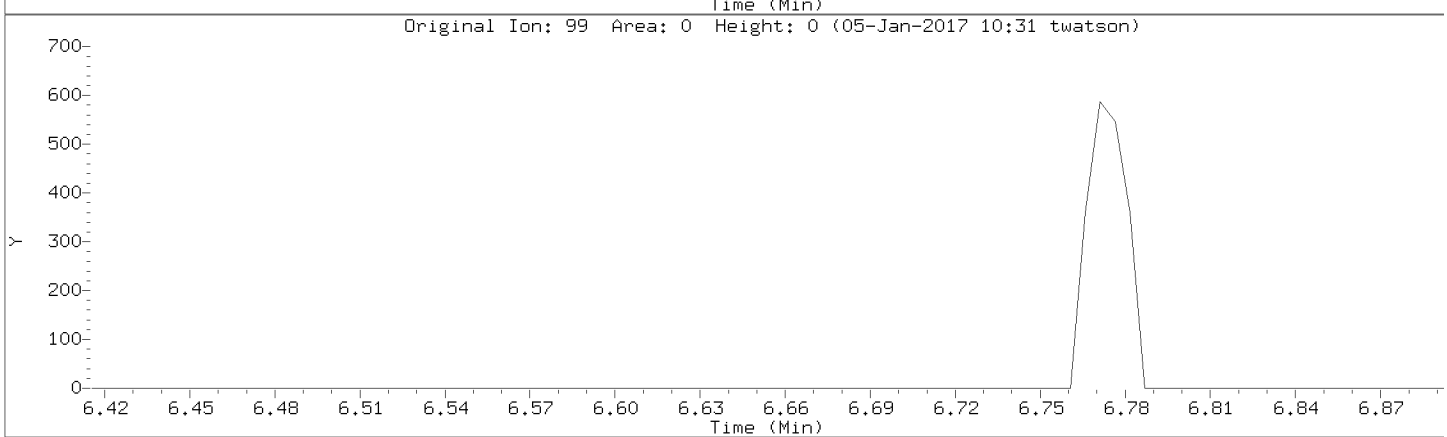
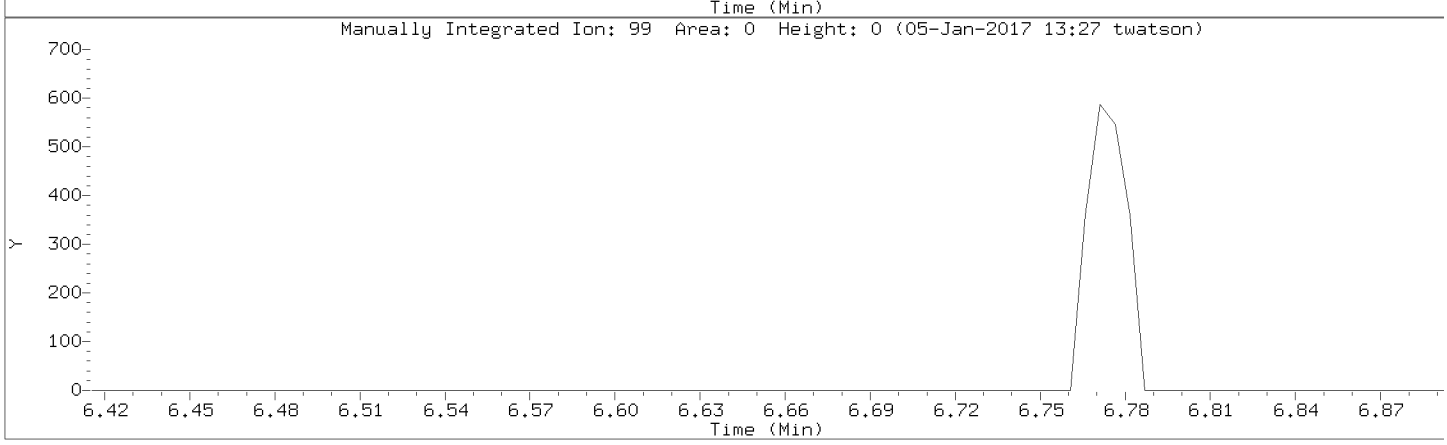
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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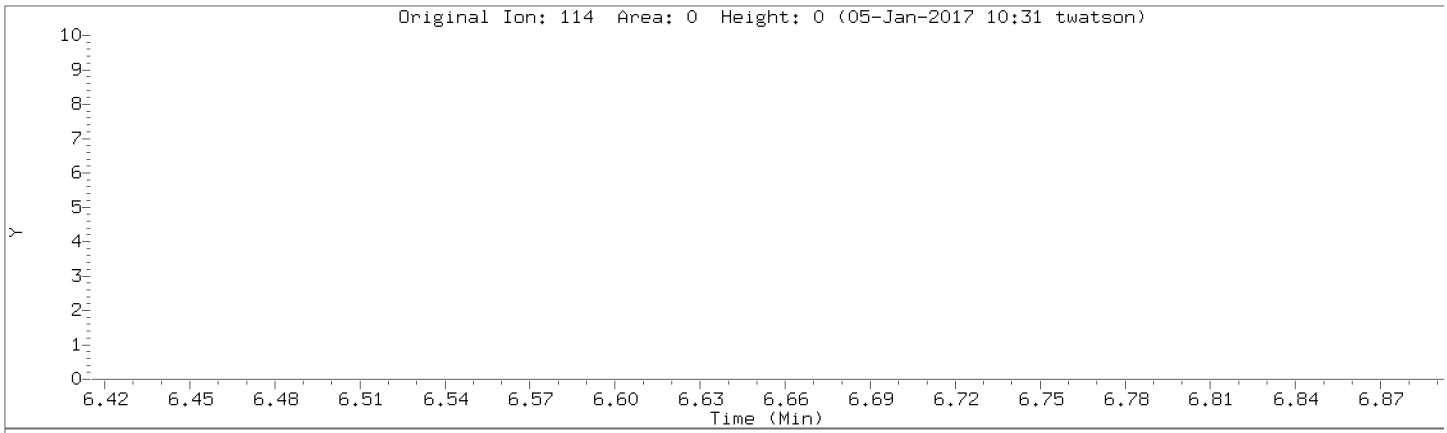
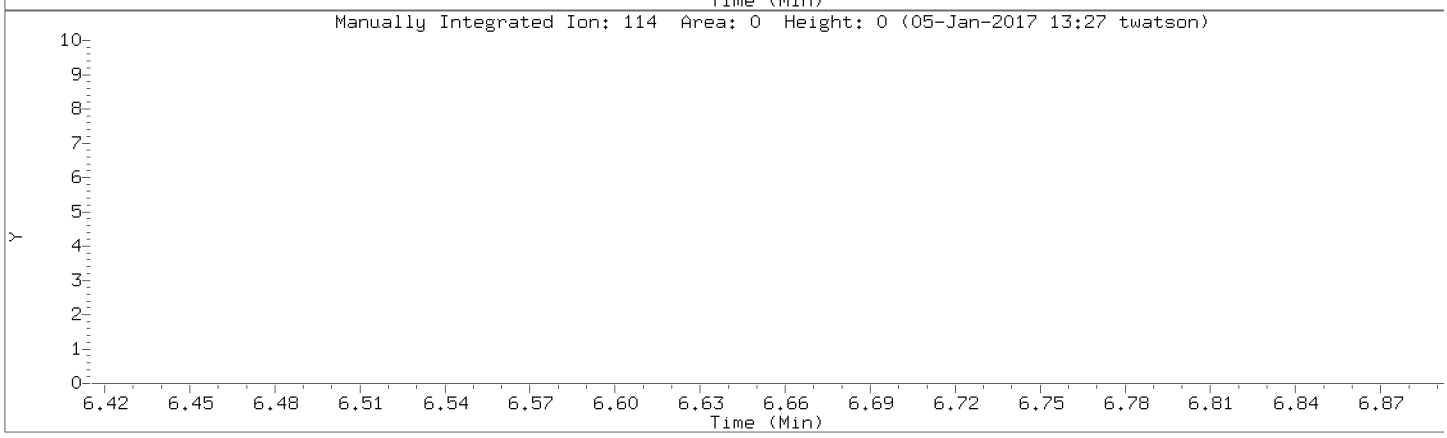
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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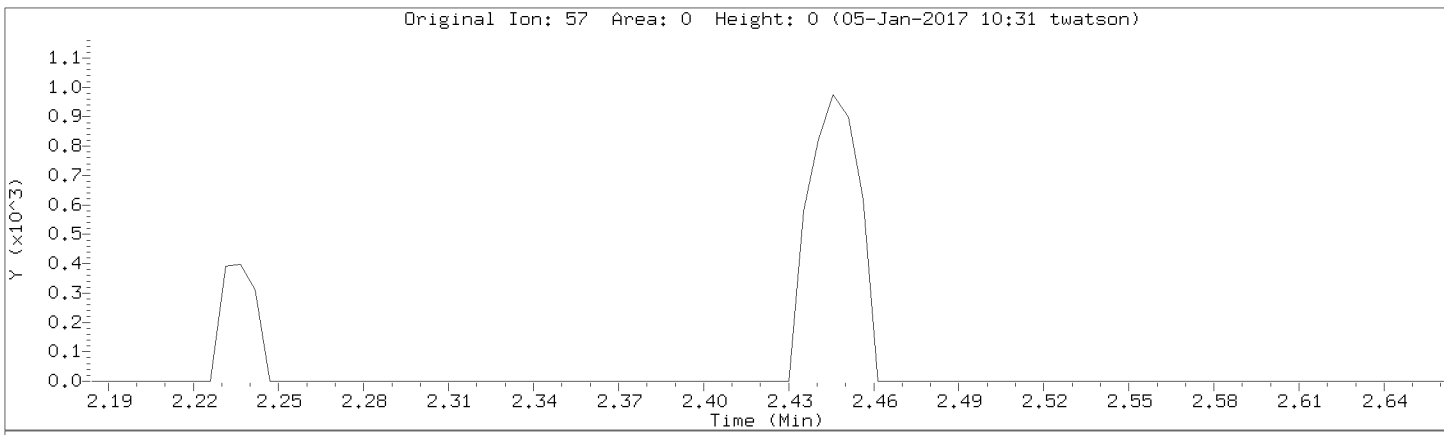
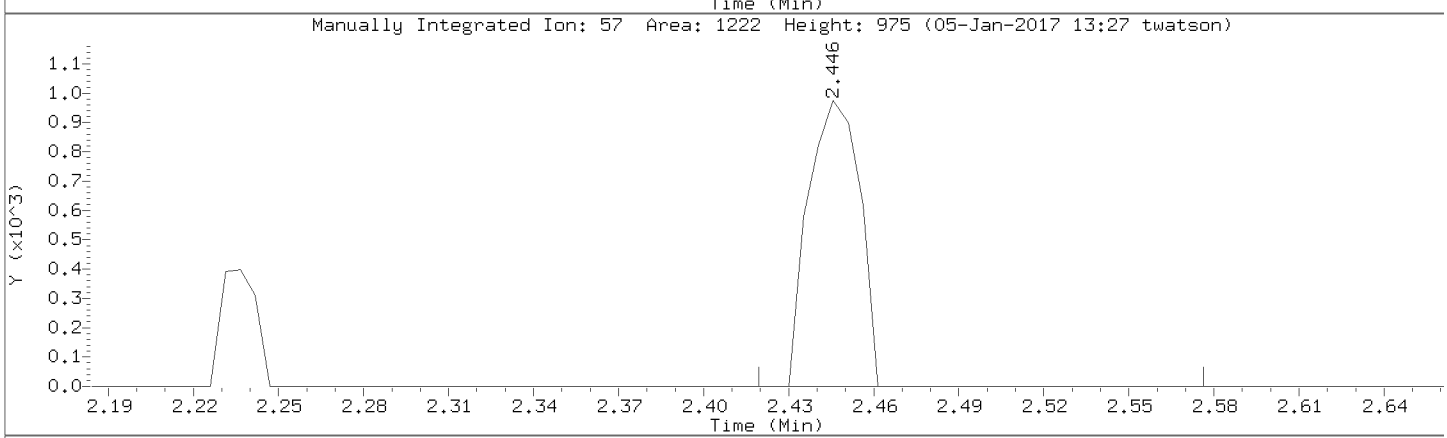
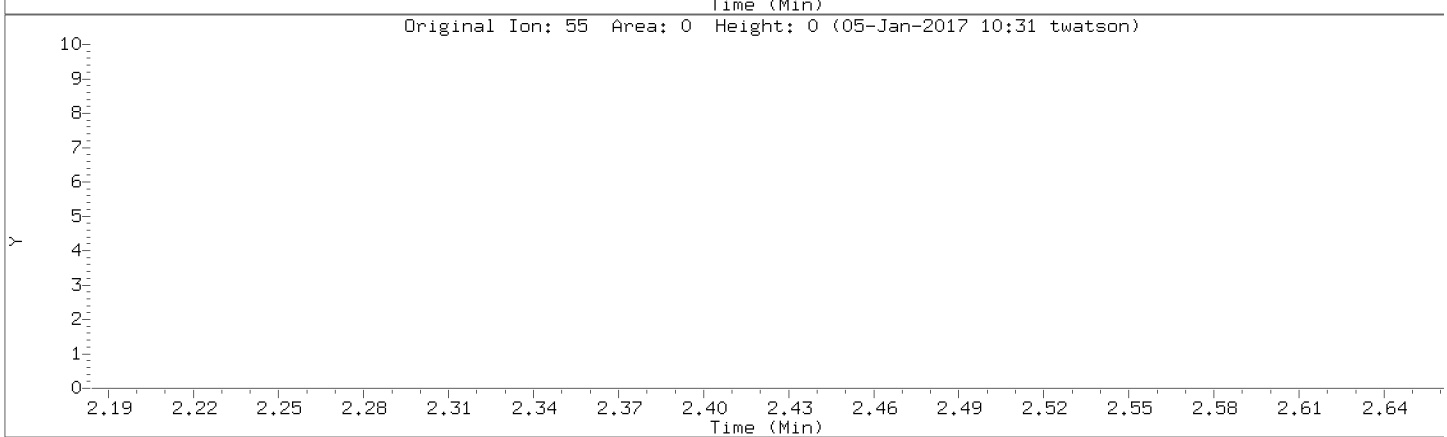
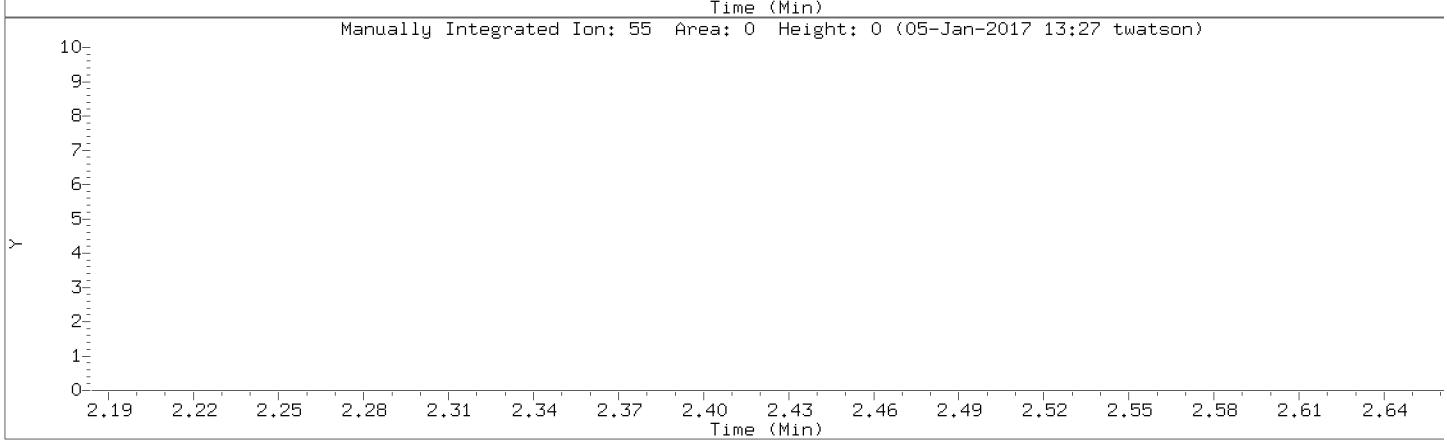
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: n-Hexane Review Code: NI
CAS Number:









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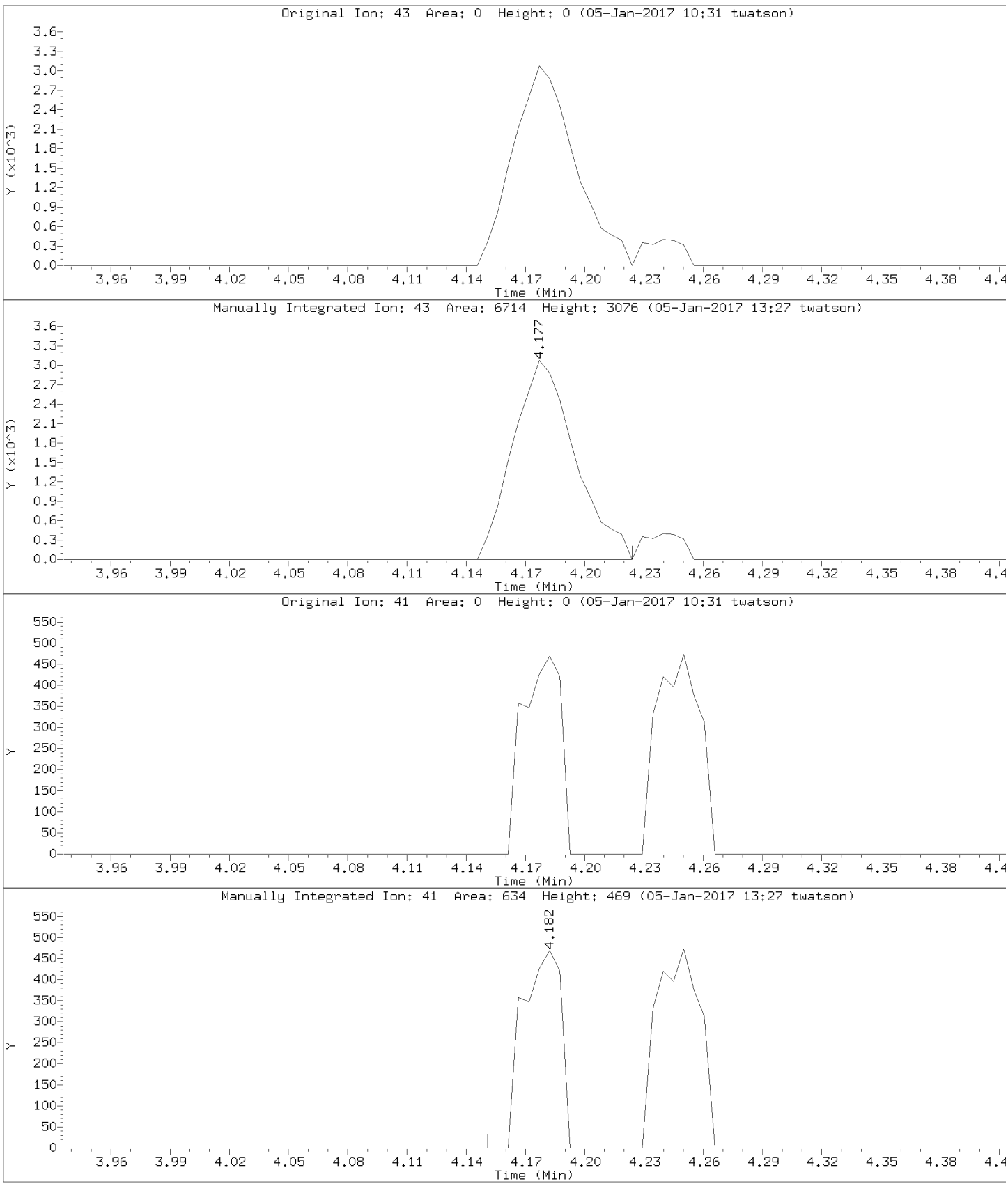
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1



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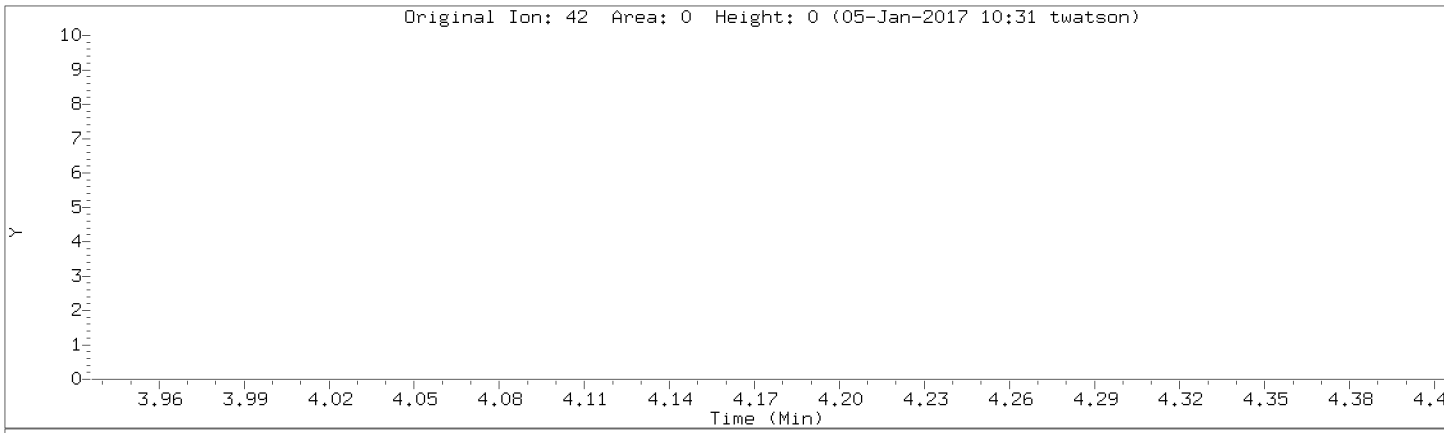
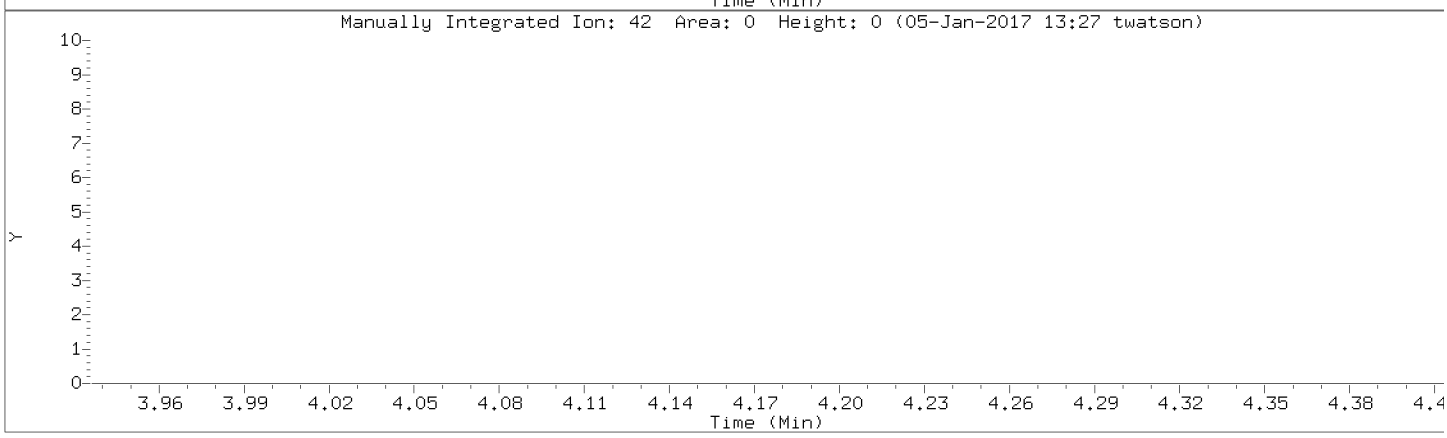
Lab Sample ID: 8260-CAL2,139197:0





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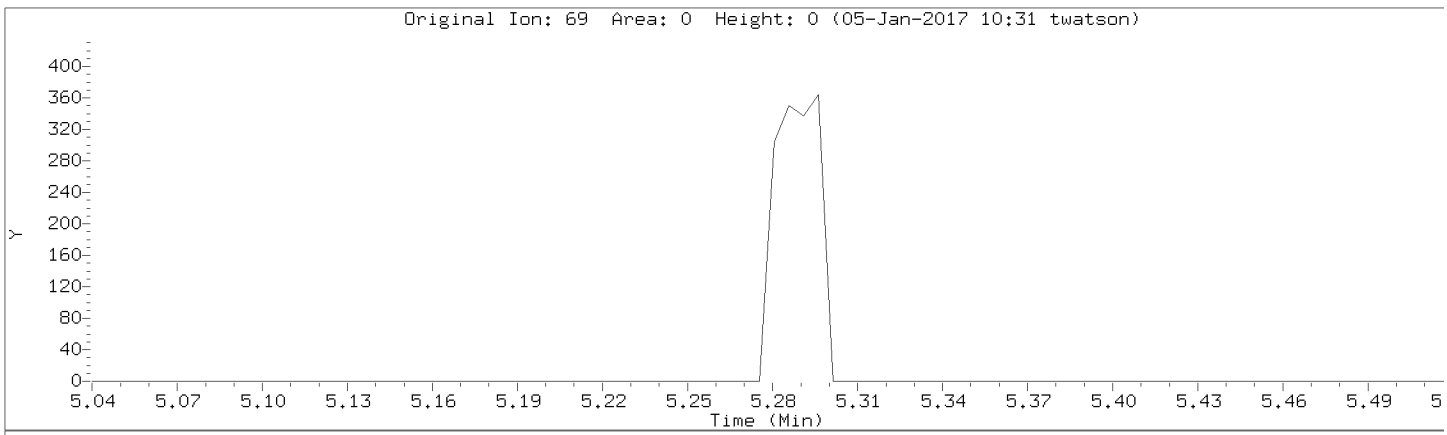
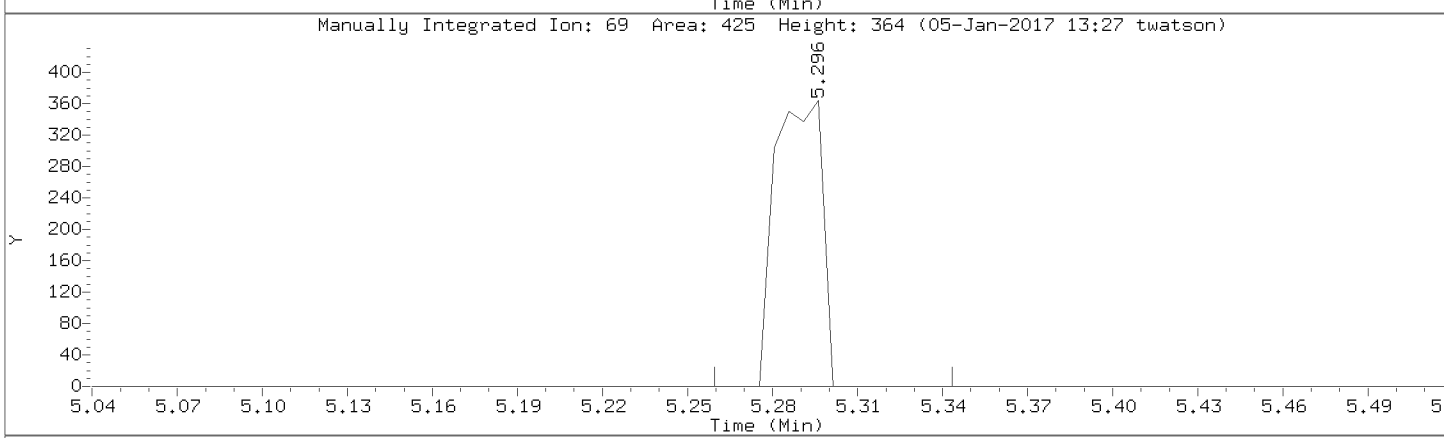
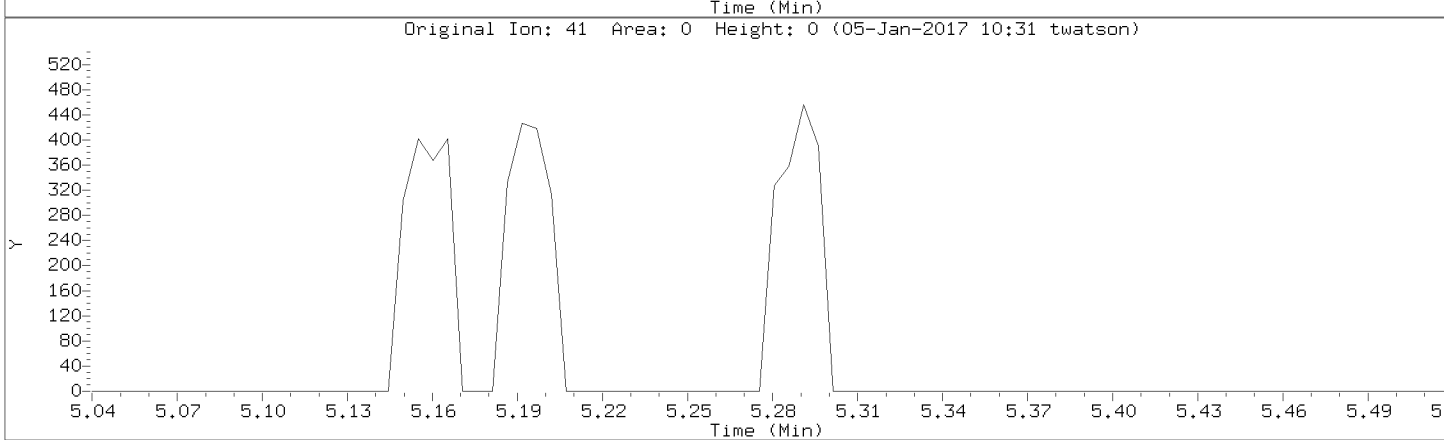
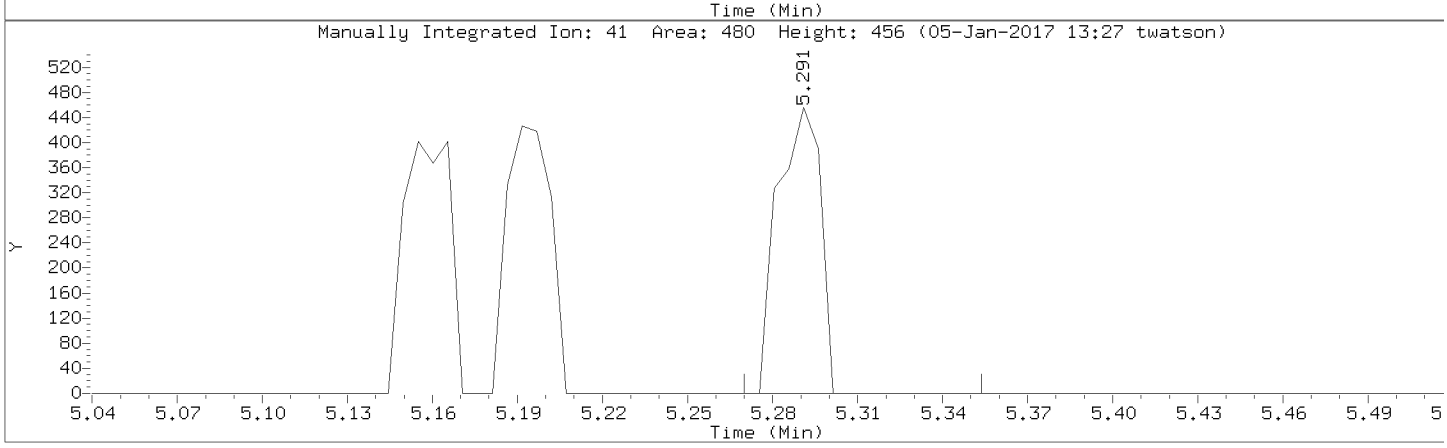
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6









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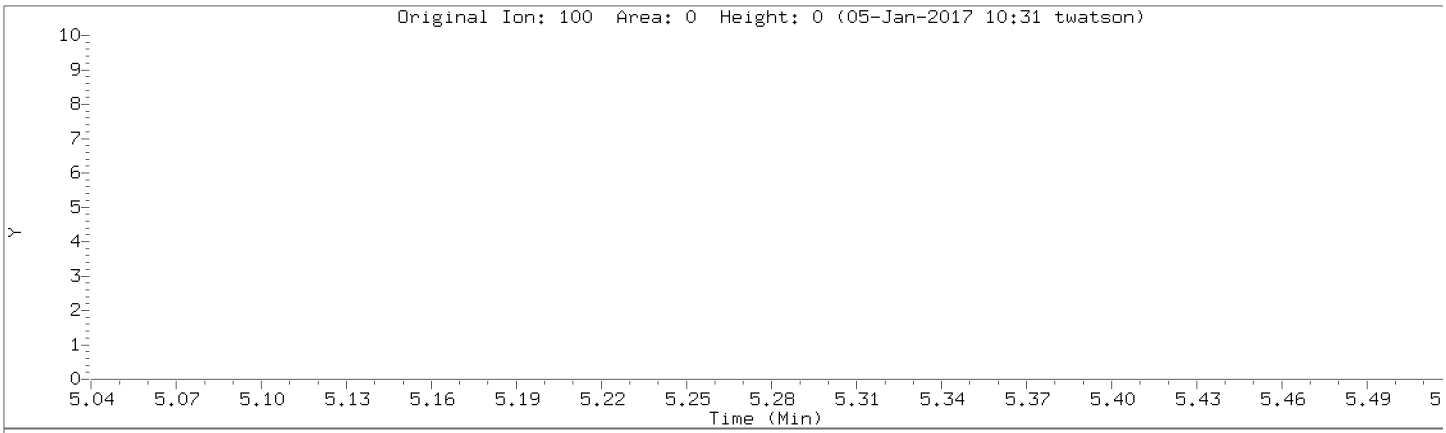
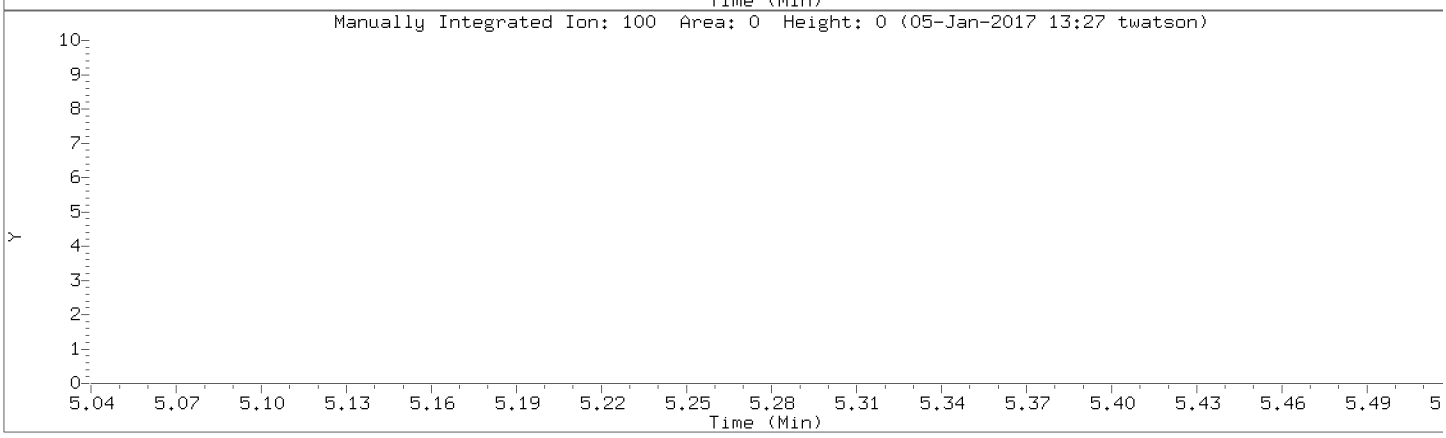
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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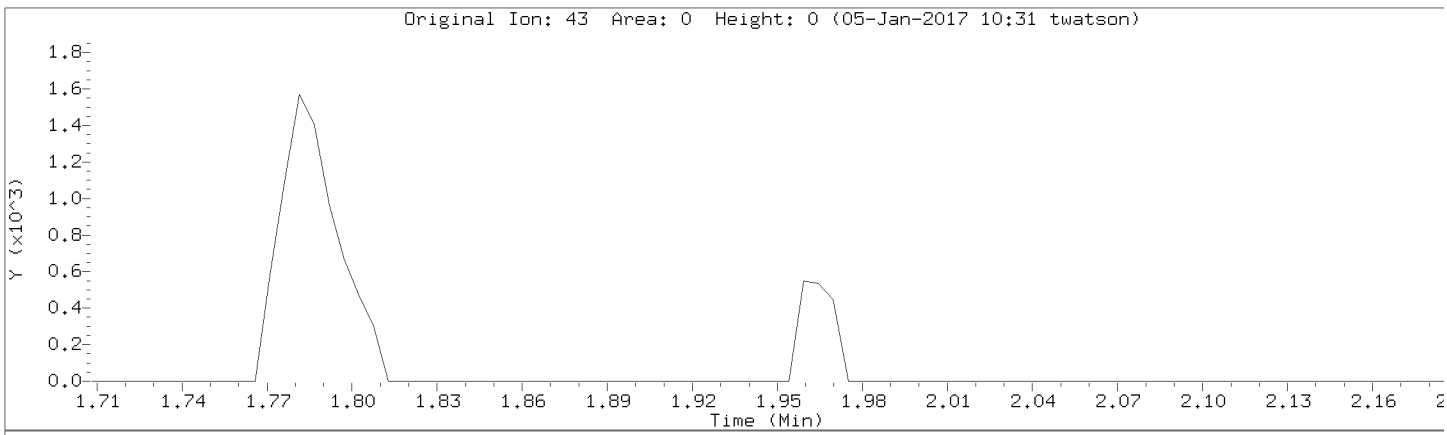
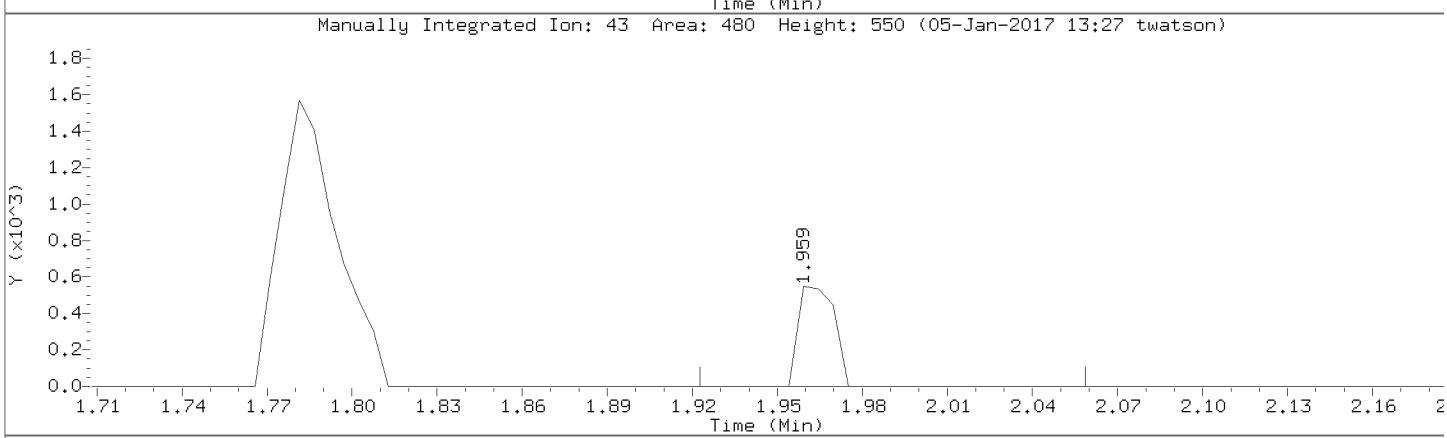
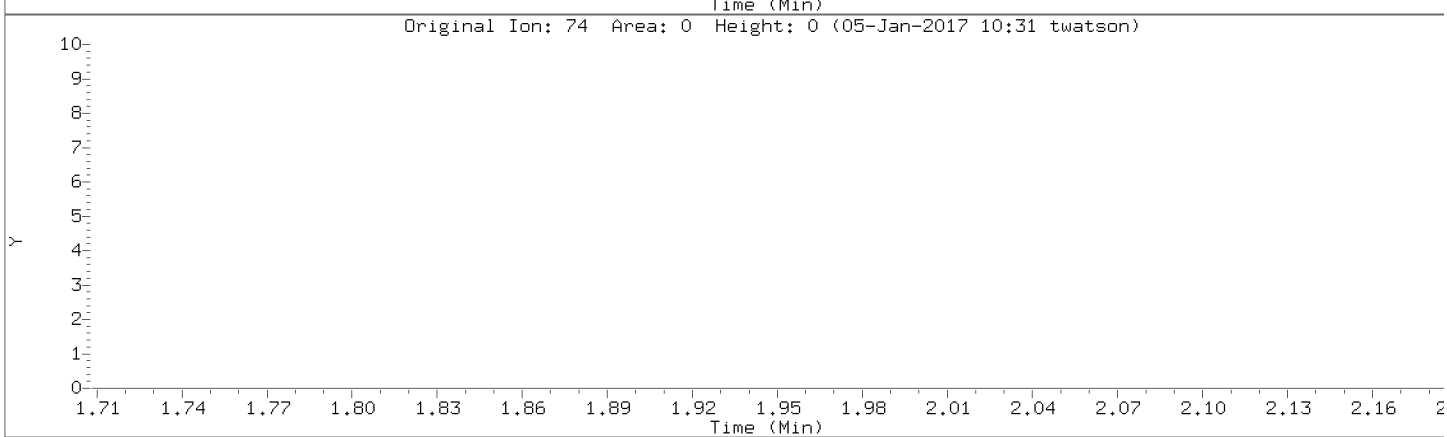
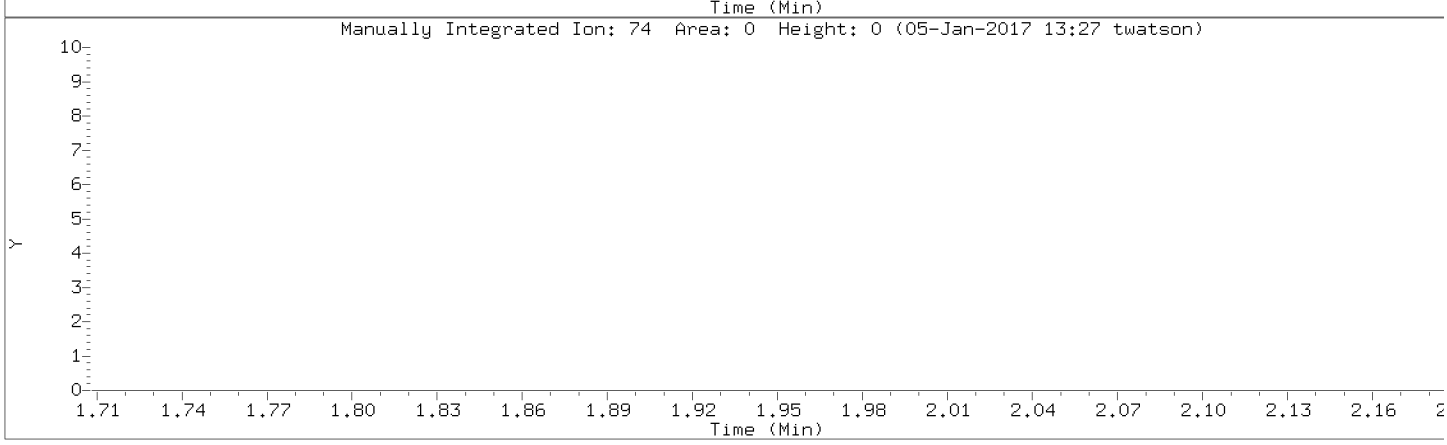
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9



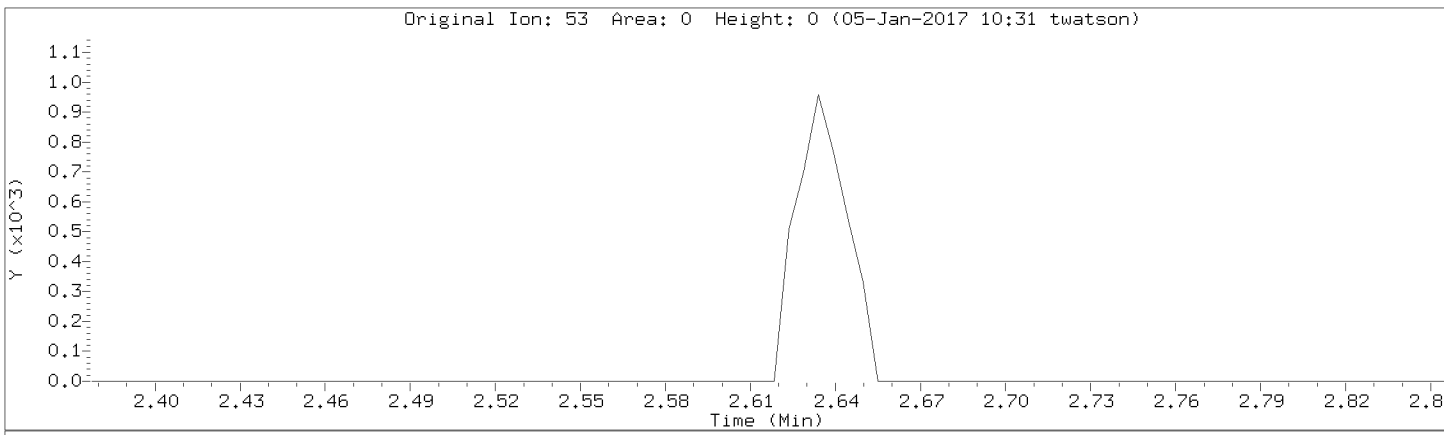


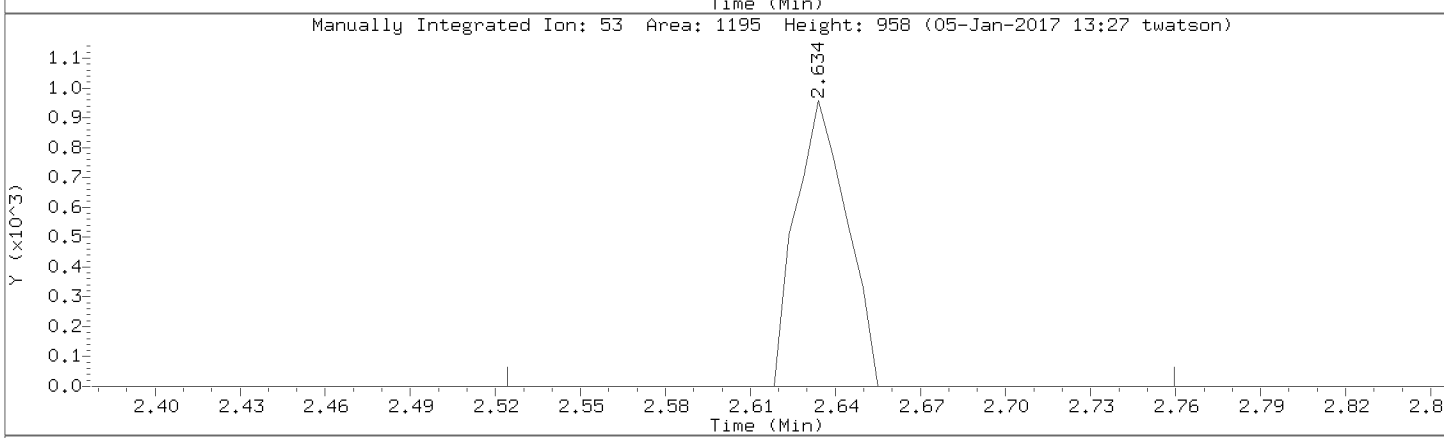


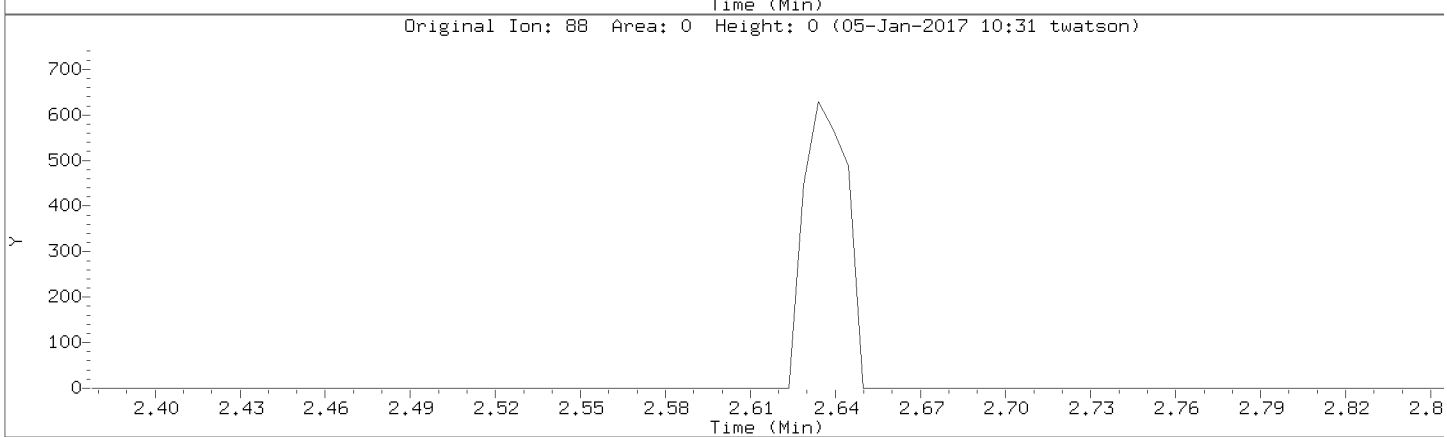


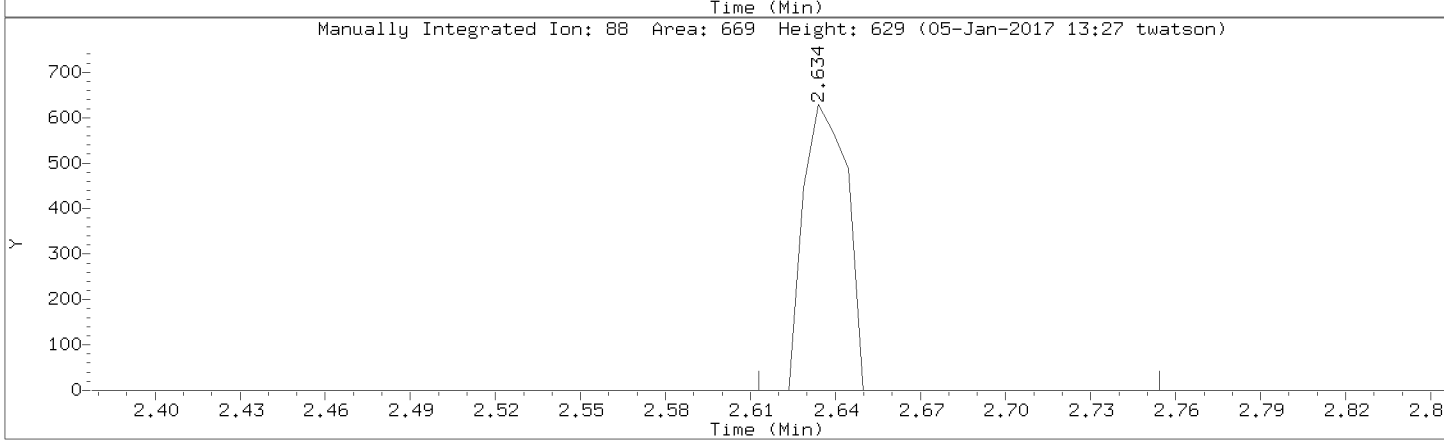
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8

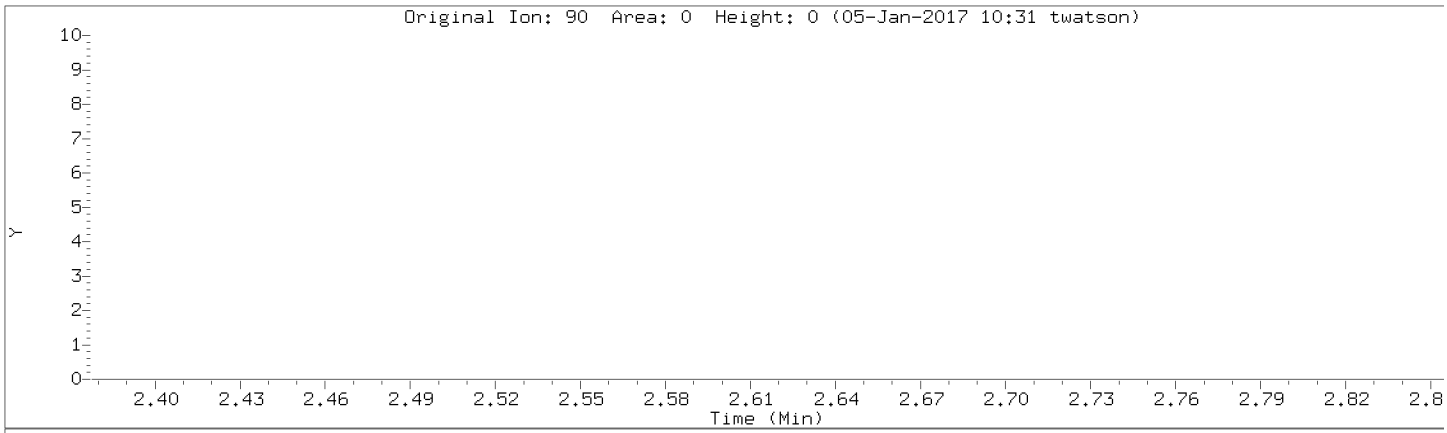


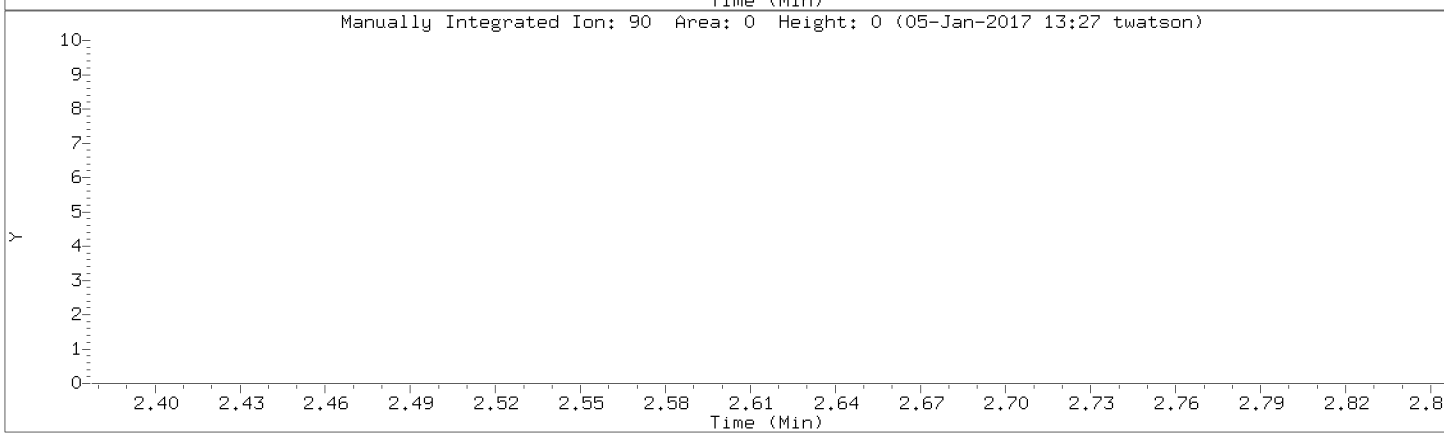






Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b02cal2.d
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0





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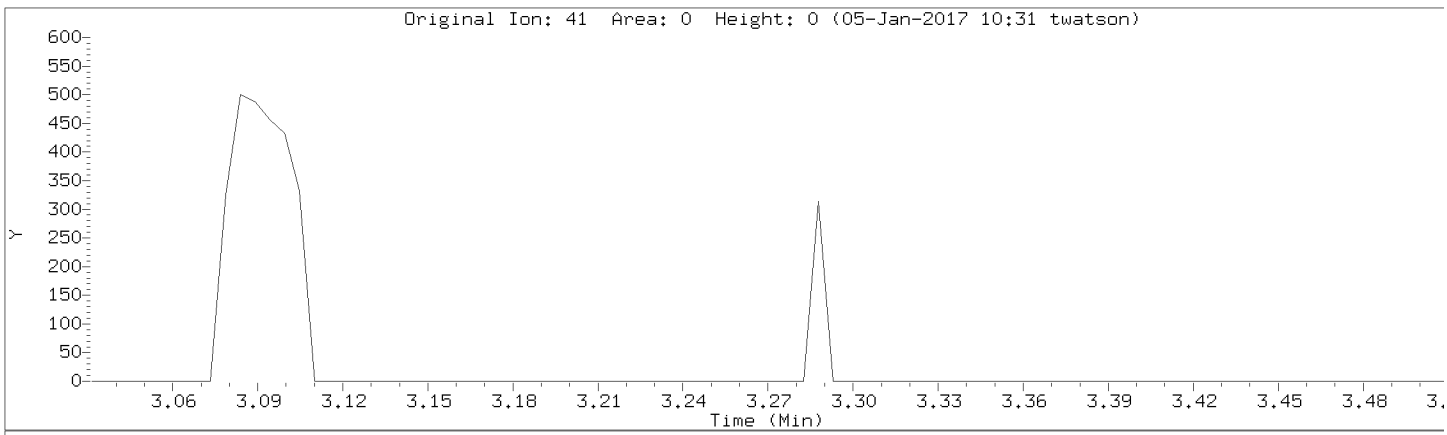
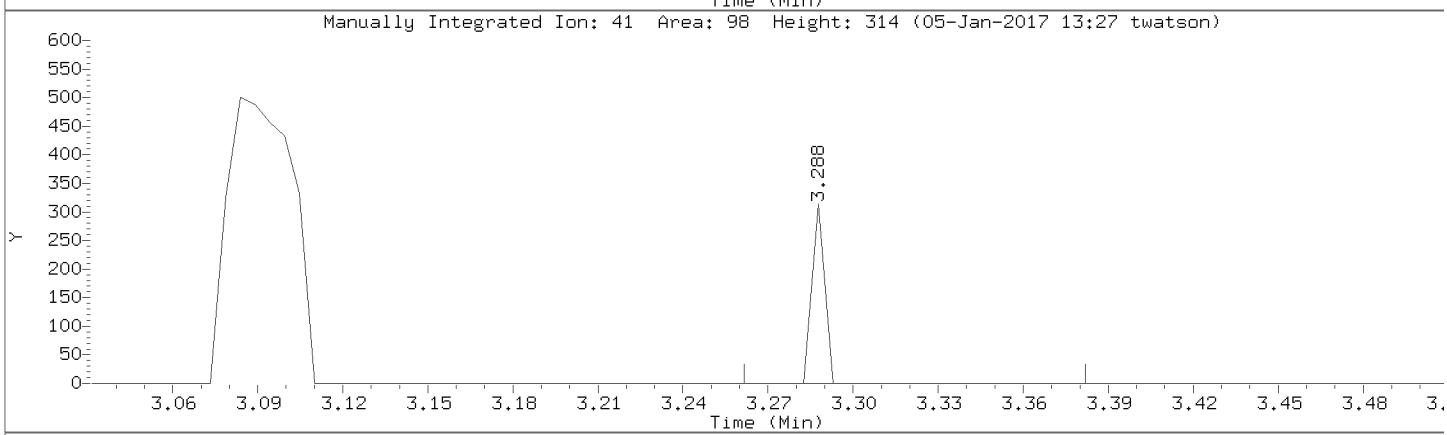
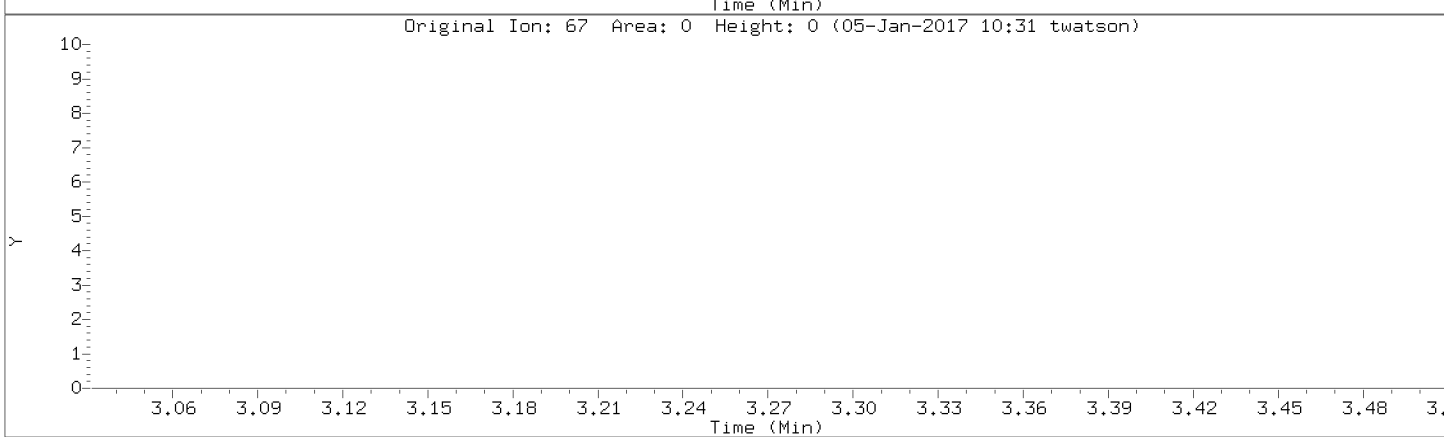
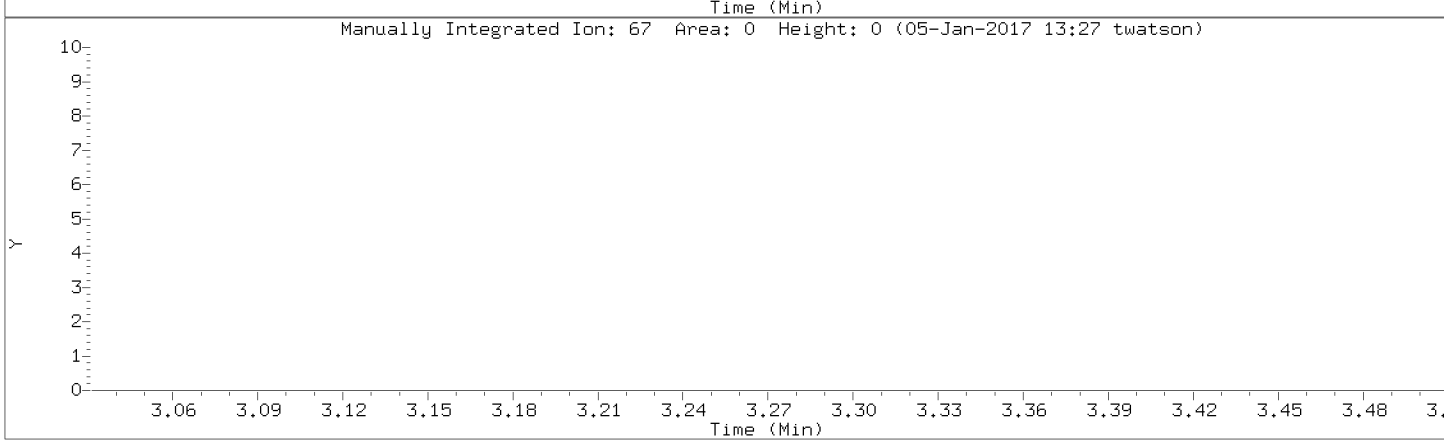
Injection Date: 04-JAN-2017 15:31
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL2,139197:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7









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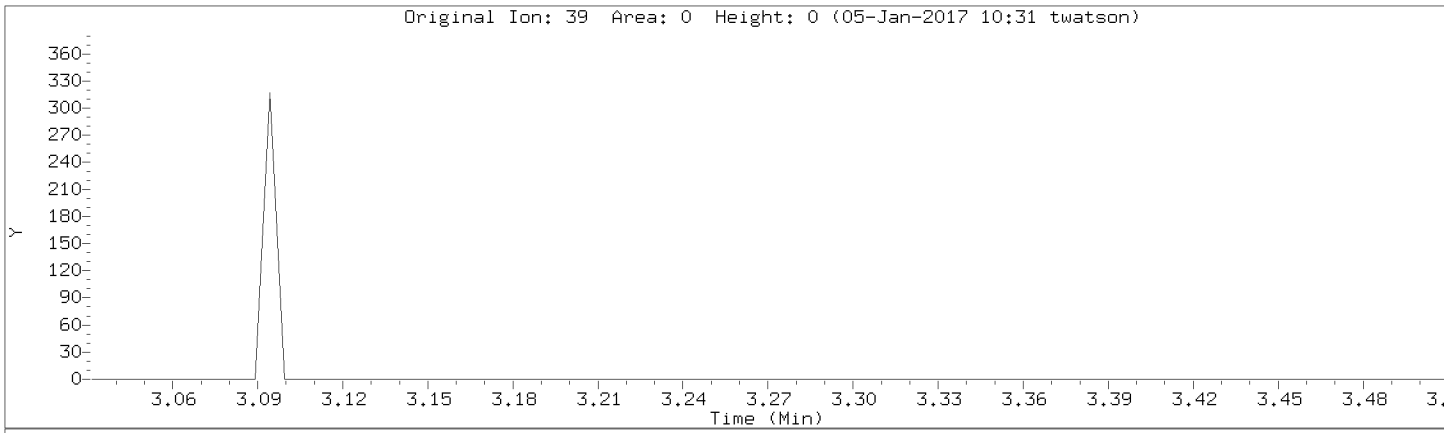
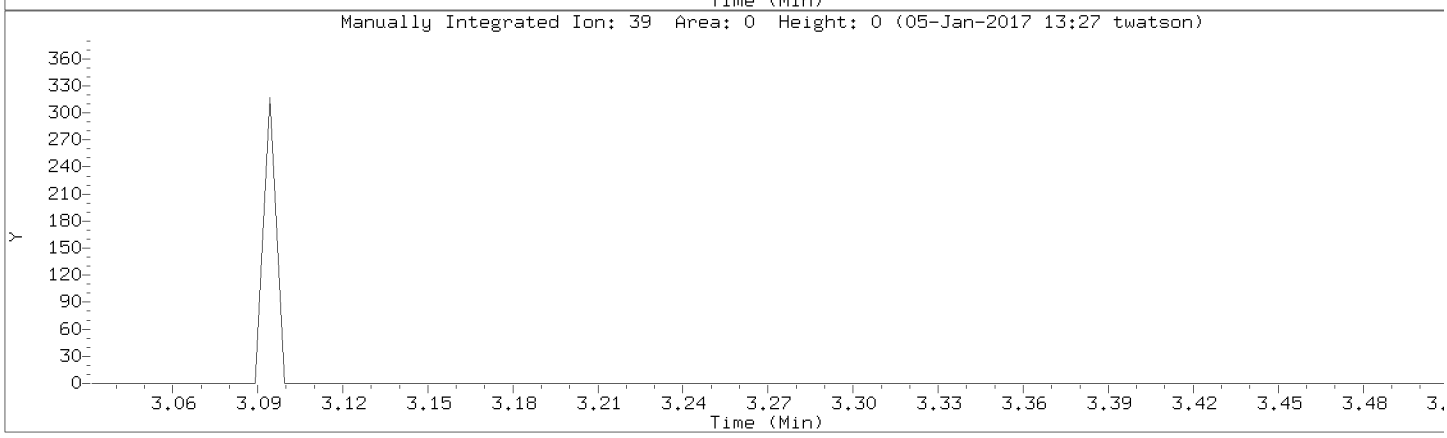
Lab Sample ID: 8260-CAL2,139197:0





Pace Analytical Services, Inc.

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Lab Smp Id: 8260-CAL3,139198:0 Client Smp ID: 8260-CAL3,139198:0
Inj Date : 04-JAN-2017 16:09
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal3,139198:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 54 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	4803	5.00000	4.53	
2 Chloromethane	50	1.127	1.122	(0.253)	5040	5.00000	5.35	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	3969	5.00000	4.72	
4 Bromomethane	94	1.331	1.316	(0.299)	1325	5.00000	3.76	
5 Chloroethane	64	1.378	1.363	(0.309)	1910	5.00000	4.53(Q)	
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	5614	5.00000	4.32	
7 Diethyl ether	74	1.635	1.629	(0.367)	1487	5.00000	4.57	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	3353	5.00000	4.27	
9 Acrolein	56	1.708	1.708	(0.383)	5752	100.000	95.7	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	3235	5.00000	4.22	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	2728	5.00000	4.34	
12 Acetone	43	1.781	1.781	(0.400)	4405	25.0000	31.4	
13 Iodomethane	142	1.870	1.860	(0.419)	5800	10.0000	4.16	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	10326	5.00000	4.77	
15 Methyl Acetate	43	1.959	1.959	(0.439)	1895	5.00000	4.49	
16 Acetonitrile	39	1.980	1.975	(0.444)	5426	5.00000	4.64	
17 allyl chloride	41	1.980	1.975	(0.444)	7075	10.0000	9.20	
18 Methylene Chloride	84	2.064	2.053	(0.463)	3570	5.00000	4.97(M)	NI
20 Acrylonitrile	53	2.205	2.200	(0.495)	2692	20.0000	17.8	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	7935	5.00000	4.36	
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.505)	2946	5.00000	4.40	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	23 n-Hexane	57	2.445	2.435	(0.548)	3611	5.00000	4.03(M)	NI
	24 Vinyl Acetate	43	2.560	2.560	(0.574)	17161	20.0000	18.5	
	25 1,1-Dichloroethane	63	2.571	2.571	(0.577)	5080	5.00000	4.45	
	26 Chloroprene	53	2.634	2.628	(0.591)	3180	5.00000	4.16	
	27 2-Butanone	43	3.052	3.063	(0.685)	4703	25.0000	27.4(M)	NI
	28 1,2-Dichloroethene (cis)	96	3.084	3.083	(0.692)	3345	5.00000	4.57(Q)	
	29 2,2-Dichloropropane	77	3.084	3.083	(0.692)	4379	5.00000	4.34	
	31 Methacrylonitrile	41	3.282	3.282	(0.736)	1072	5.00000	4.11(Q)	
	32 Bromochloromethane	49	3.335	3.335	(0.748)	2058	5.00000	4.79	
	33 Tetrahydrofuran	42	3.345	3.350	(0.750)	203	5.00000	1.58(QM)	NI
	34 Chloroform	83	3.455	3.450	(0.775)	5894	5.00000	4.56	
	35 1,1,1-Trichloroethane	97	3.643	3.638	(0.817)	5041	5.00000	4.42	
$	36 Dibromofluoromethane (S)	113	3.643	3.638	(0.817)	48050	50.0000	49.5	
	37 Cyclohexane	56	3.727	3.727	(0.836)	4083	5.00000	4.64	
	38 n-butyl chloride	56	3.795	3.795	(0.851)	4988	5.00000	4.54	
	39 Carbon Tetrachloride	117	3.842	3.837	(0.862)	4577	5.00000	4.29	
	40 1,1-Dichloropropene	75	3.842	3.842	(0.862)	4016	5.00000	4.27	
	41 Benzene	78	4.088	4.082	(0.917)	11808	5.00000	4.26	
	42 1,2-Dichloroethane	62	4.166	4.166	(0.934)	3726	5.00000	4.37(M)	NI
	43 Isobutyl alcohol	43	4.177	4.187	(0.937)	16488	5.00000	4.56(M)	GT
	44 2,2,4-Trimethylpentane	57	4.245	4.245	(0.952)	8557	5.00000	4.10	
*	45 Fluorobenzene (IS)	96	4.459	4.459	(1.000)	158985	50.0000		
	46 Trichloroethene	95	4.898	4.893	(1.099)	3210	5.00000	4.38	
	47 Methylcyclohexane	55	5.155	5.155	(1.156)	3182	5.00000	4.10	
	48 1,2-Dichloropropane	63	5.191	5.197	(1.164)	2883	5.00000	4.58(M)	NI
	49 Dibromomethane	93	5.285	5.291	(1.185)	2074	5.00000	4.46	
	50 Methyl methacrylate	69	5.291	5.291	(1.186)	1551	5.00000	4.10	
	52 Bromodichloromethane	83	5.505	5.505	(1.235)	4514	5.00000	4.53(M)	NI
	53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	3092	10.0000	9.12	
	54 cis-1,3-Dichloropropene	75	5.992	5.986	(0.796)	4953	5.00000	4.43	
	55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	11050	25.0000	23.6	
$	56 Toluene-d8 (S)	98	6.258	6.263	(0.831)	162851	50.0000	49.2	
	57 Toluene	91	6.332	6.337	(0.841)	14417	5.00000	4.66	
	58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	4499	5.00000	4.53	
	59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	3297	5.00000	4.38(M)	NI
	60 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	2408	5.00000	4.83	
	61 Tetrachloroethene	166	6.828	6.828	(0.907)	3855	5.00000	4.15	
	62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	4678	5.00000	4.79	
	63 2-Hexanone	43	6.959	6.964	(0.924)	7831	25.0000	23.2	
	64 Dibromochloromethane	129	7.090	7.090	(0.942)	4010	5.00000	4.50	
	65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	3190	5.00000	4.71	
*	66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	129626	50.0000		
	67 Chlorobenzene	112	7.550	7.555	(1.003)	10676	5.00000	4.68	
	68 1,1,1,2-Tetrachloroethane	131	7.623	7.629	(1.013)	3542	5.00000	4.31	
	69 Ethylbenzene	106	7.629	7.634	(1.013)	5223	5.00000	4.26	
	70 m&p-Xylene	106	7.723	7.728	(1.026)	13386	10.0000	8.83	
	71 o-Xylene	106	7.984	7.984	(1.060)	6511	5.00000	4.37	
	72 Styrene	104	8.000	8.000	(1.063)	11190	5.00000	4.53	
	73 Bromoform	173	8.120	8.125	(0.901)	2640	5.00000	4.49(M)	NI
	74 Isopropylbenzene	105	8.225	8.225	(1.092)	17057	5.00000	4.29	
$	75 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.107)	59918	50.0000	48.7	
	76 Bromobenzene	77	8.418	8.418	(1.118)	6416	5.00000	4.60	
	77 1,1,2,2-Tetrachloroethane	83	8.424	8.429	(0.934)	3965	5.00000	4.87	
	78 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.121)	668	5.00000	3.96(Q)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	1125	5.00000	4.92(Q)	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	19890	5.00000	4.82	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	11458	5.00000	4.79	
82 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.952)	14898	5.00000	4.81	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	4585	5.00000	4.64	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	13555	5.00000	4.91	
85 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.976)	15740	5.00000	4.90	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	19637	5.00000	4.54	
87 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	9192	5.00000	4.77	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	16945	5.00000	4.77	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	73864	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	9634	5.00000	4.80	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	15087	5.00000	4.77	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	9035	5.00000	4.82	
93 1,2-Dibromo-3-chloropropane	155	9.627	9.627	(1.068)	639	5.00000	4.02(Q)	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	6665	5.00000	4.71	
95 Hexachlorobutadiene	225	10.108	10.113	(1.121)	3587	5.00000	4.29	
96 Naphthalene	128	10.191	10.191	(1.131)	14916	5.00000	4.63	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	6245	5.00000	4.71	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	7389	5.00000	4.76	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	6672	5.00000	4.73	
148 Ethyl Acetate	88	3.104	3.110	(0.696)	685	40.0000	32.0(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

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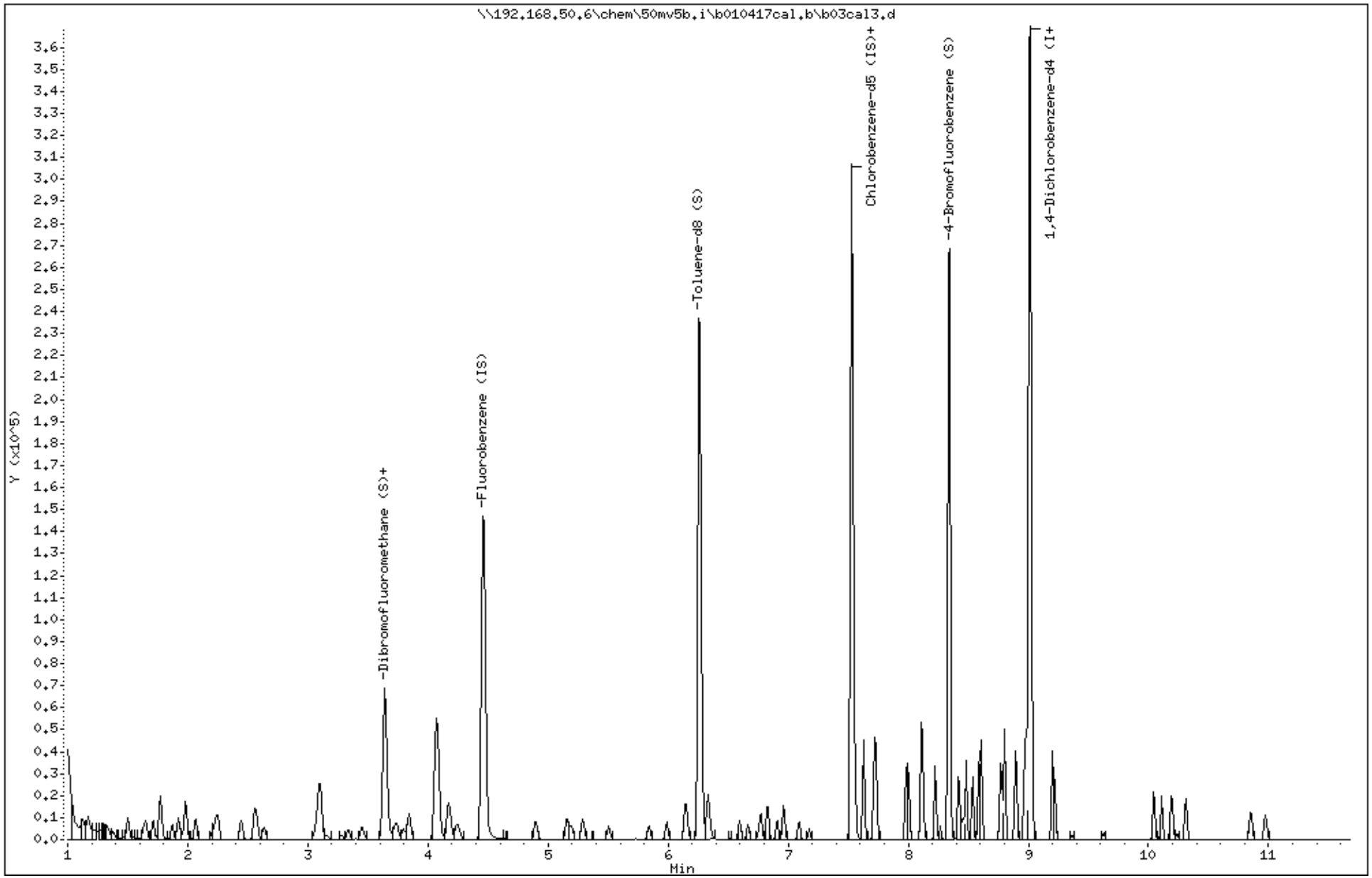
Date : 04-JAN-2017 16:09
Client ID: 8260-CAL3,139198:0
Sample Info: 8260-CAL3,139198:0

Column phase: DB-624

Instrument: 50mv5b.i

Operator: TMW

Column diameter: 0.18



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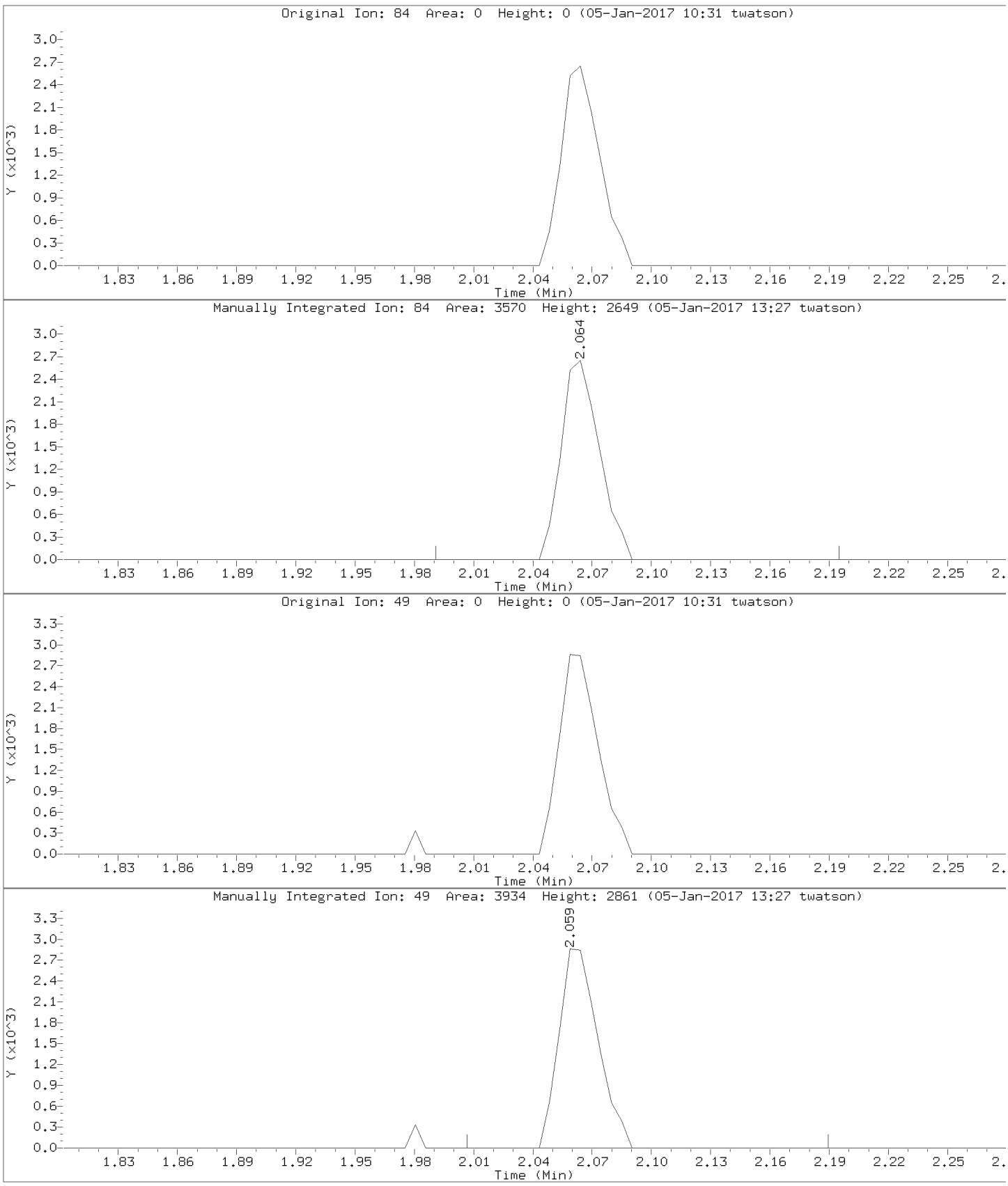
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Methylene Chloride Review Code: NI
CAS Number: 75-09-2



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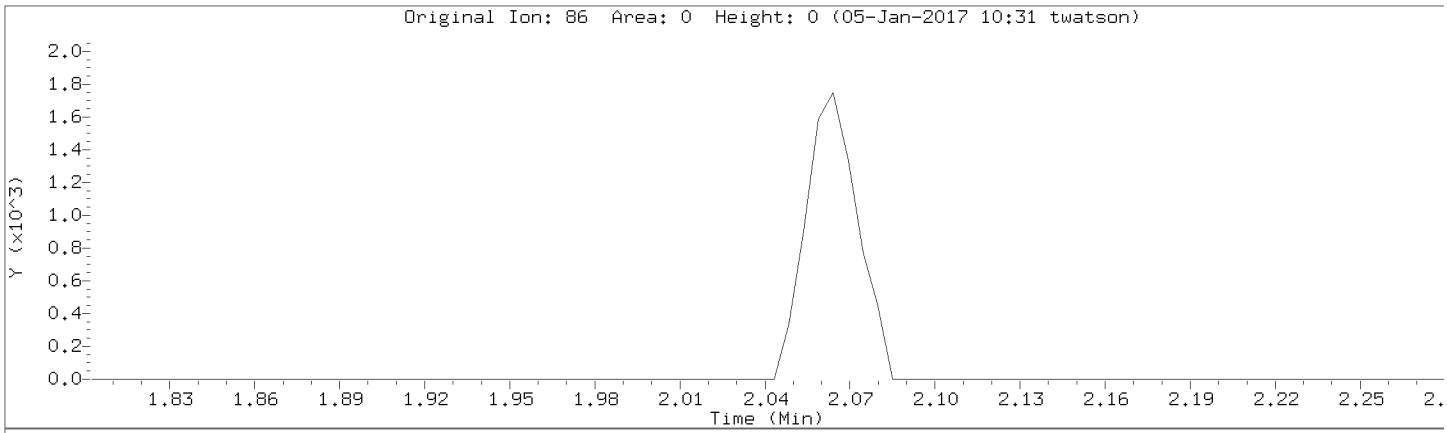
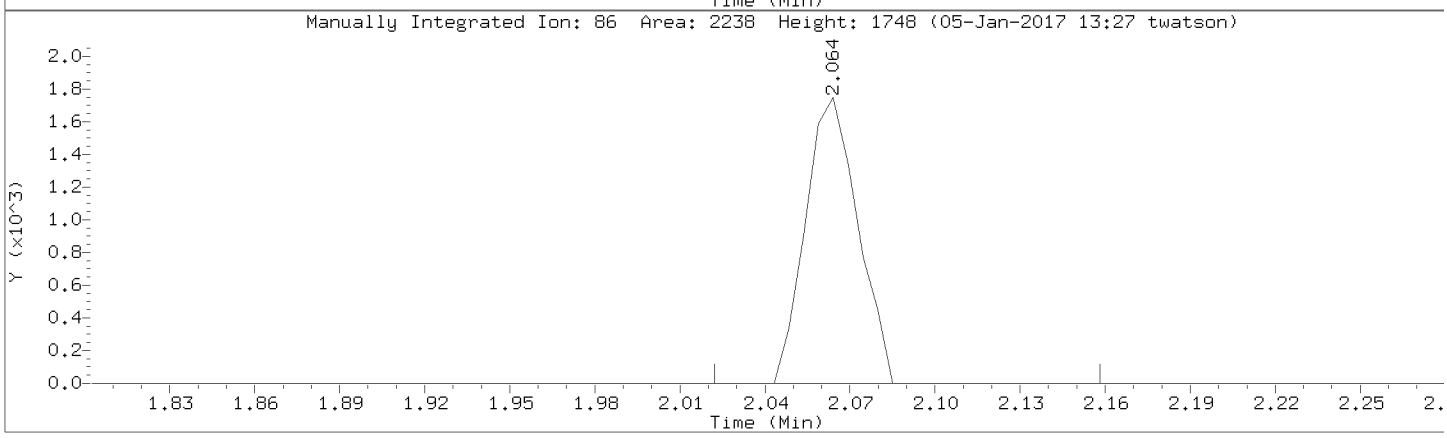
Lab Sample ID: 8260-CAL3,139198:0





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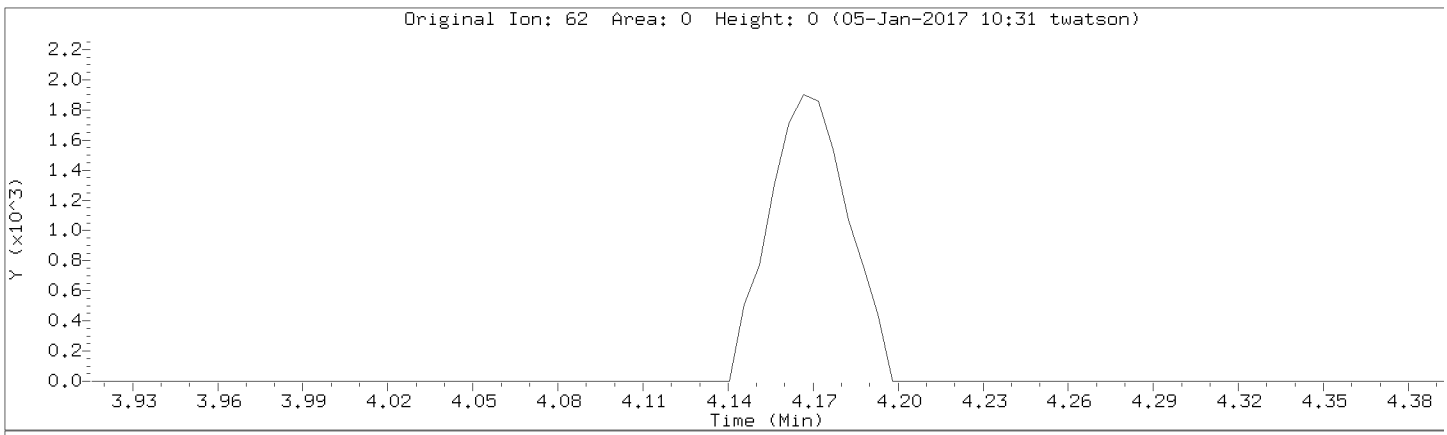
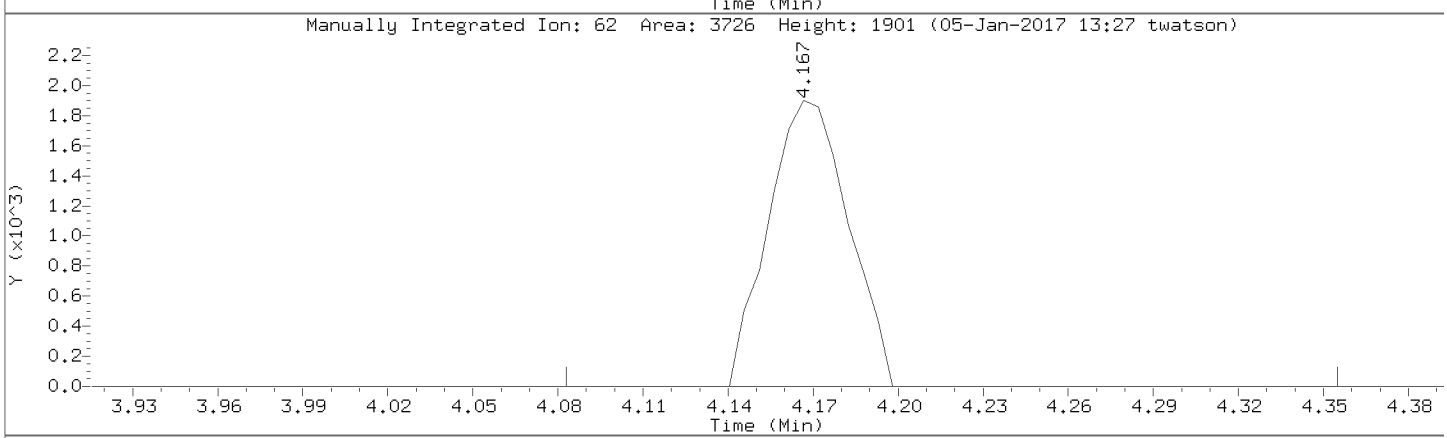
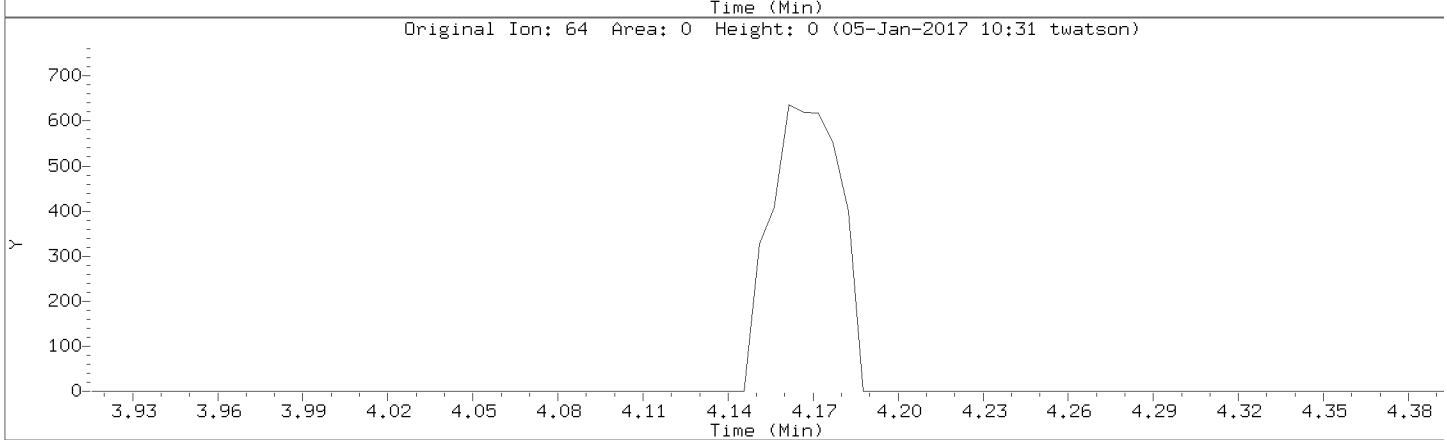
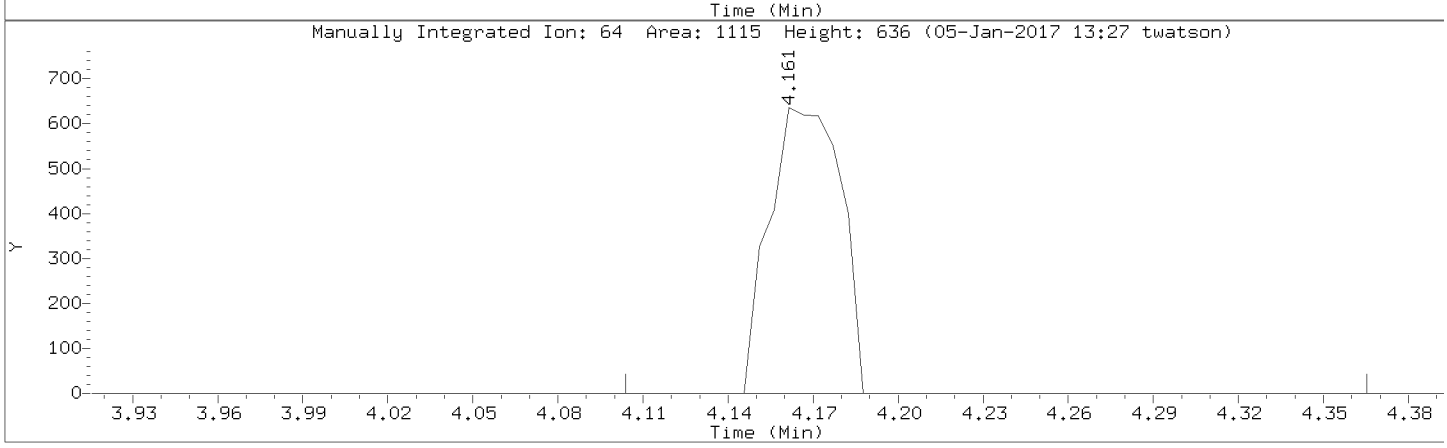
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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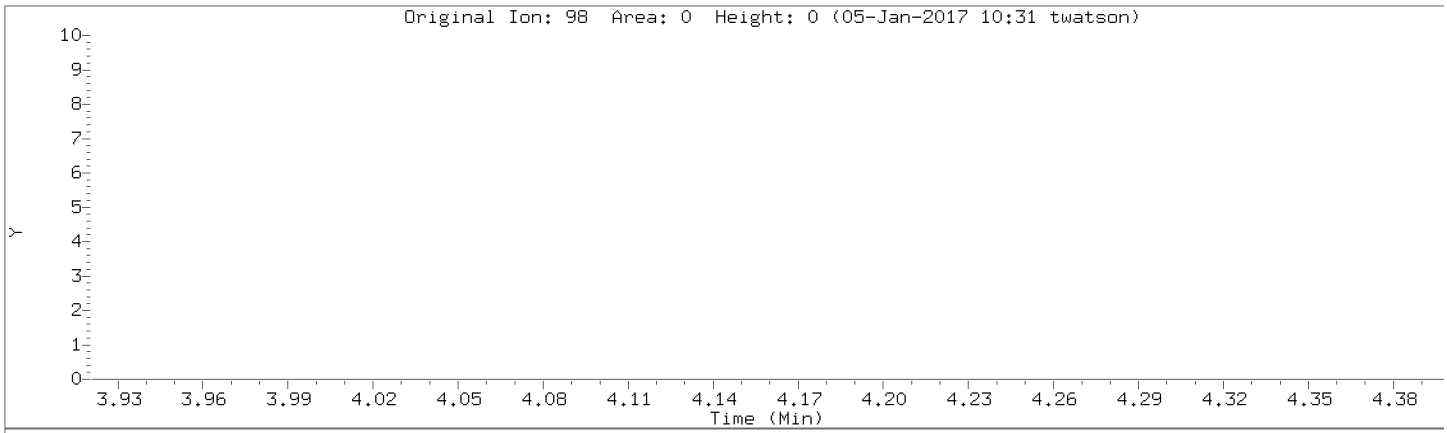
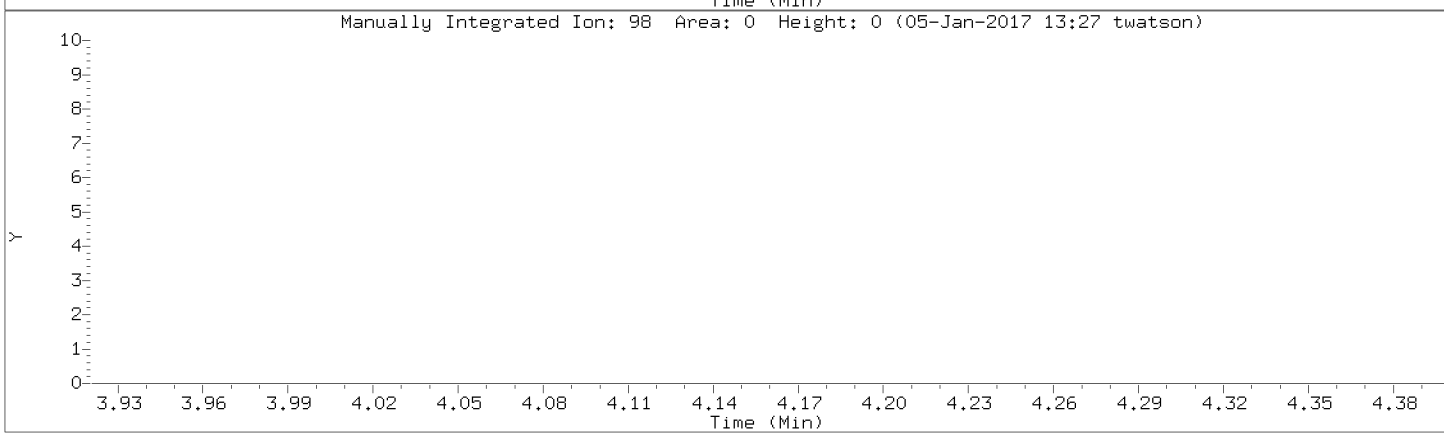
Lab Sample ID: 8260-CAL3,139198:0





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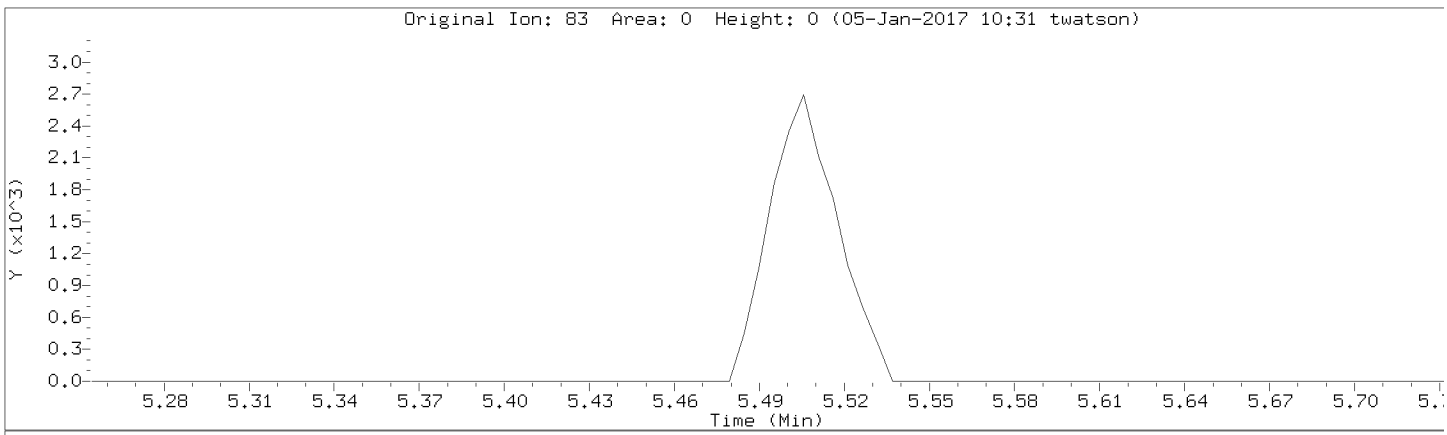
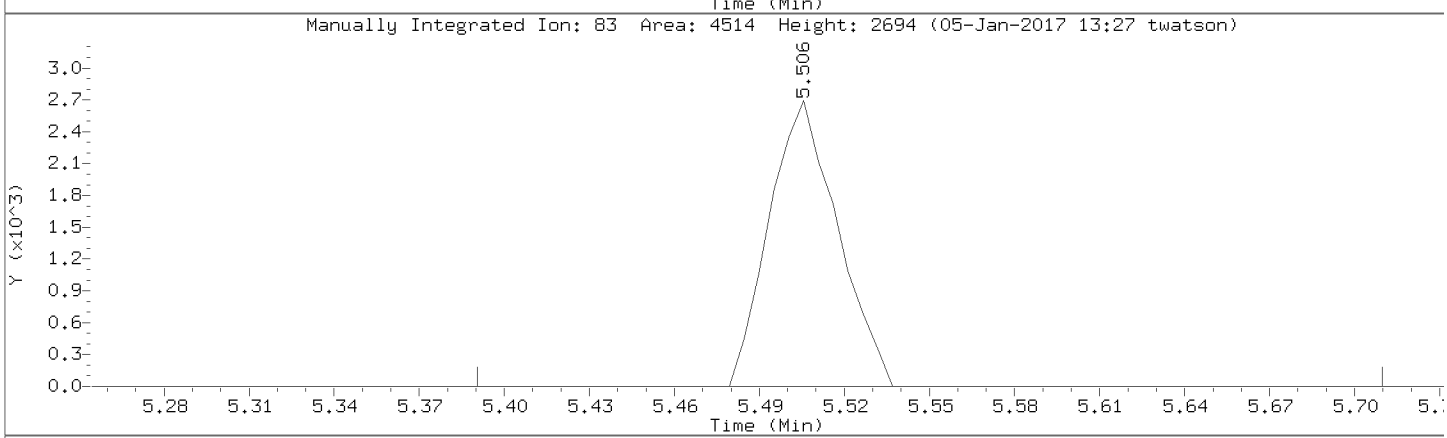
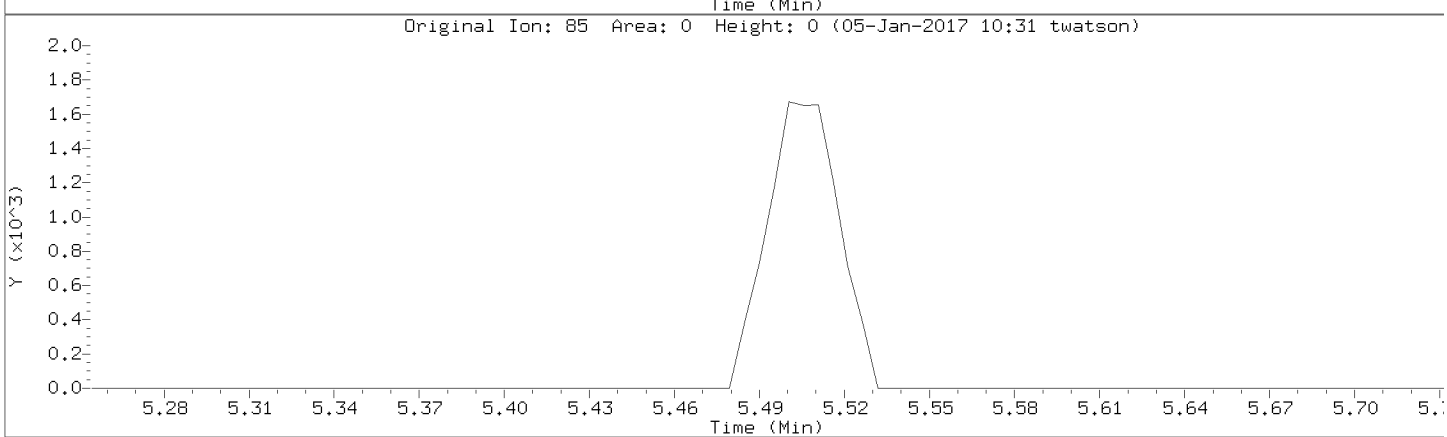
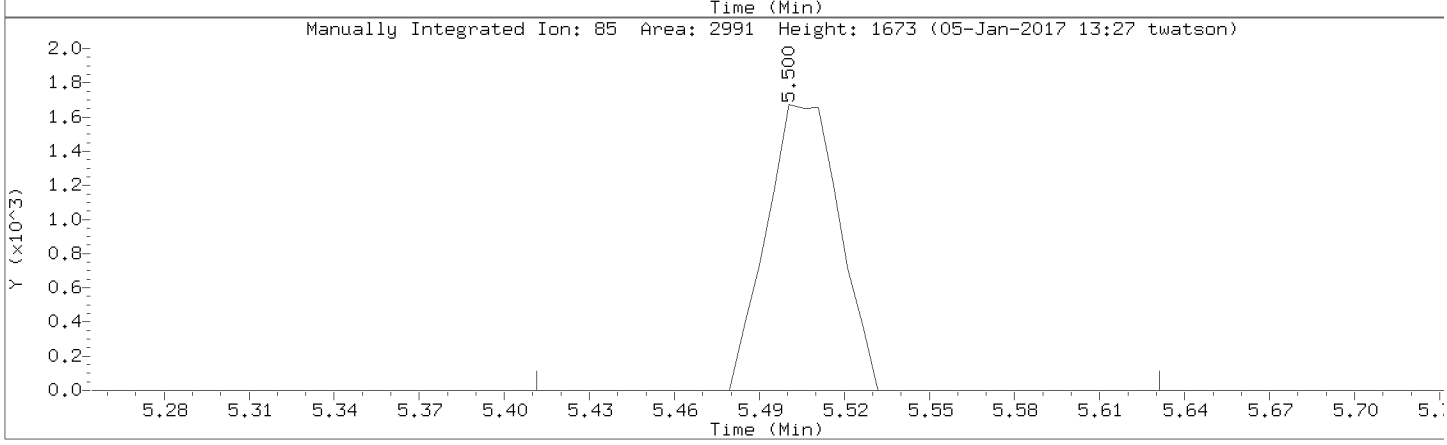
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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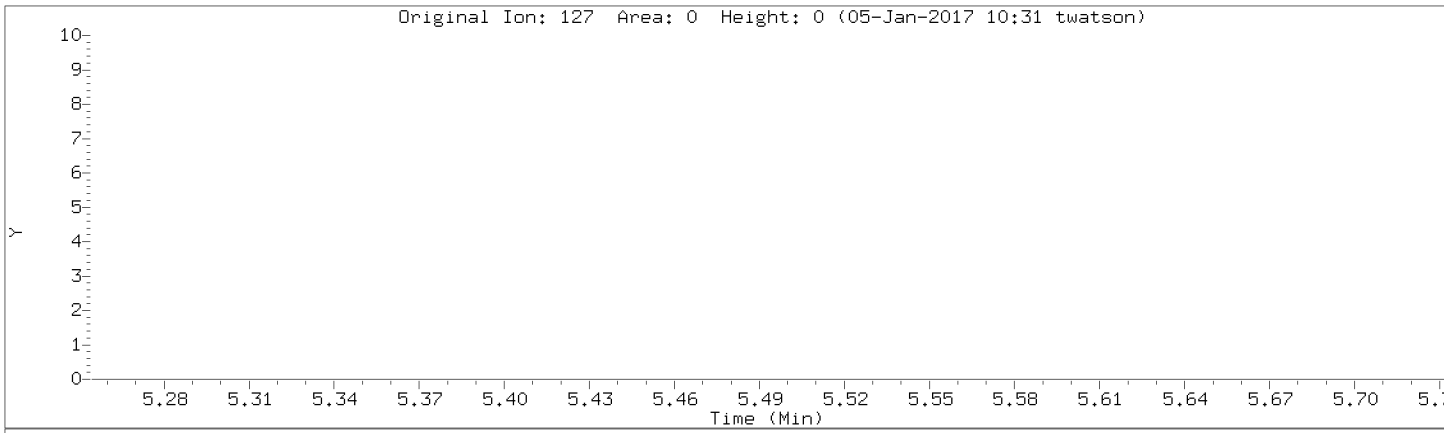
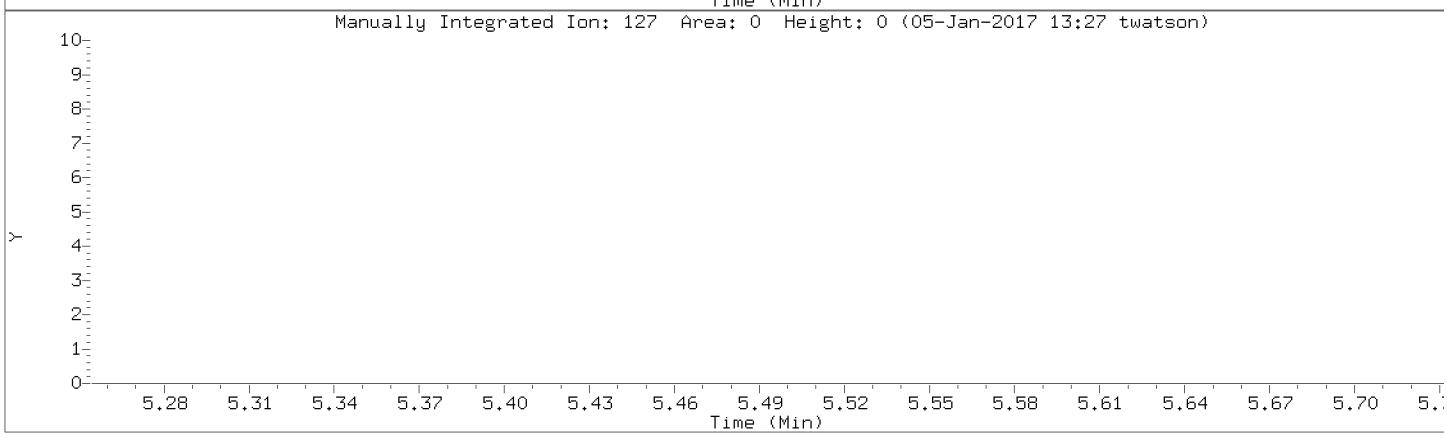
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0





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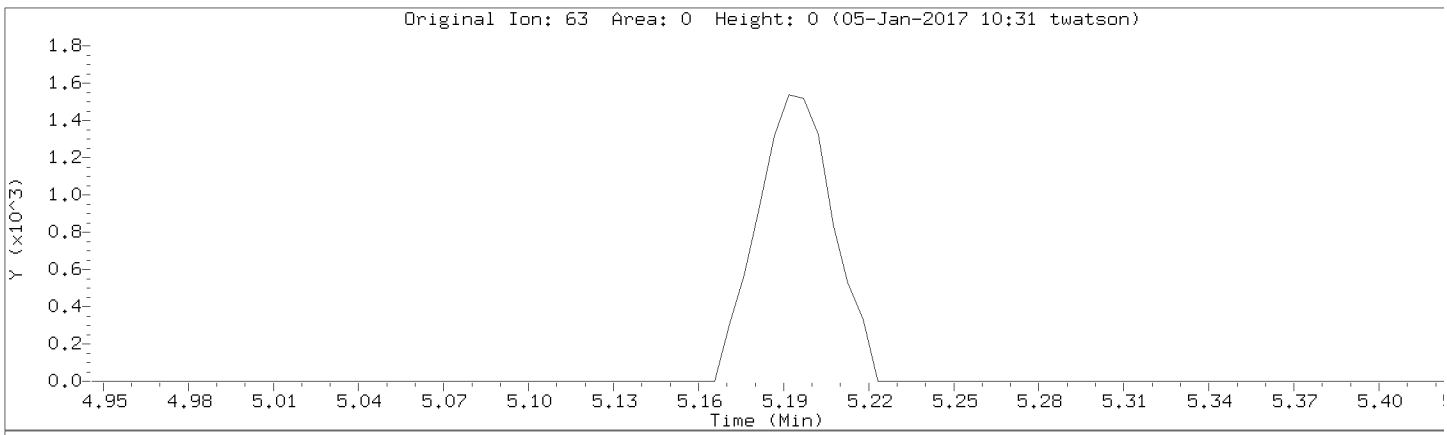
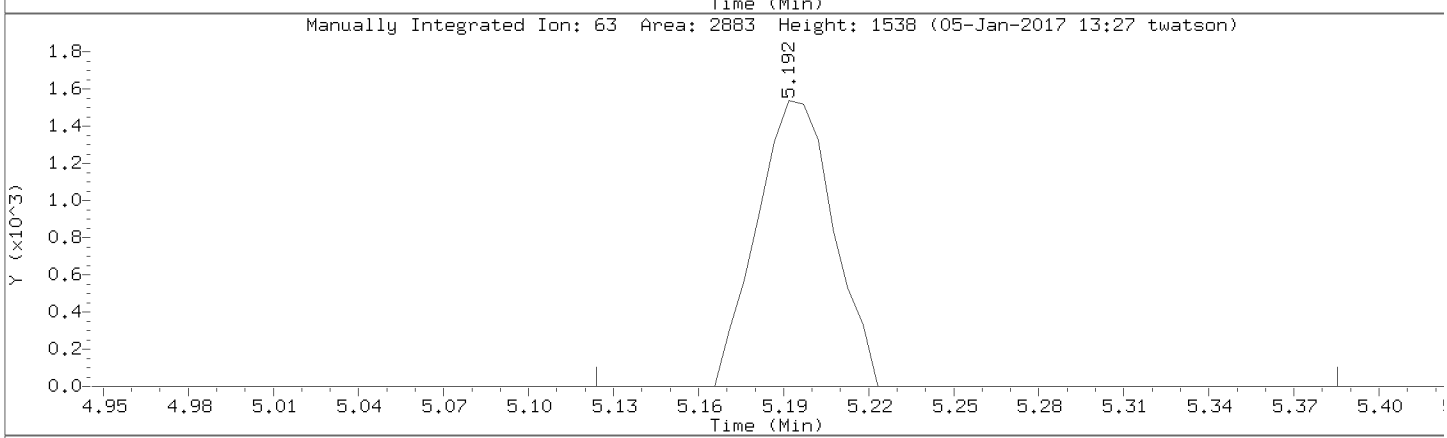
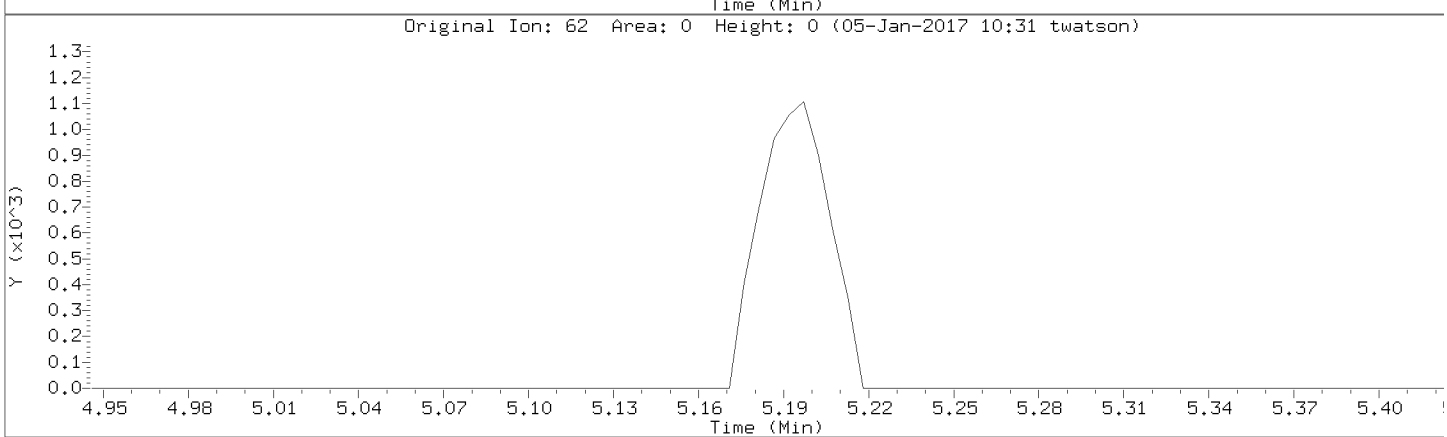
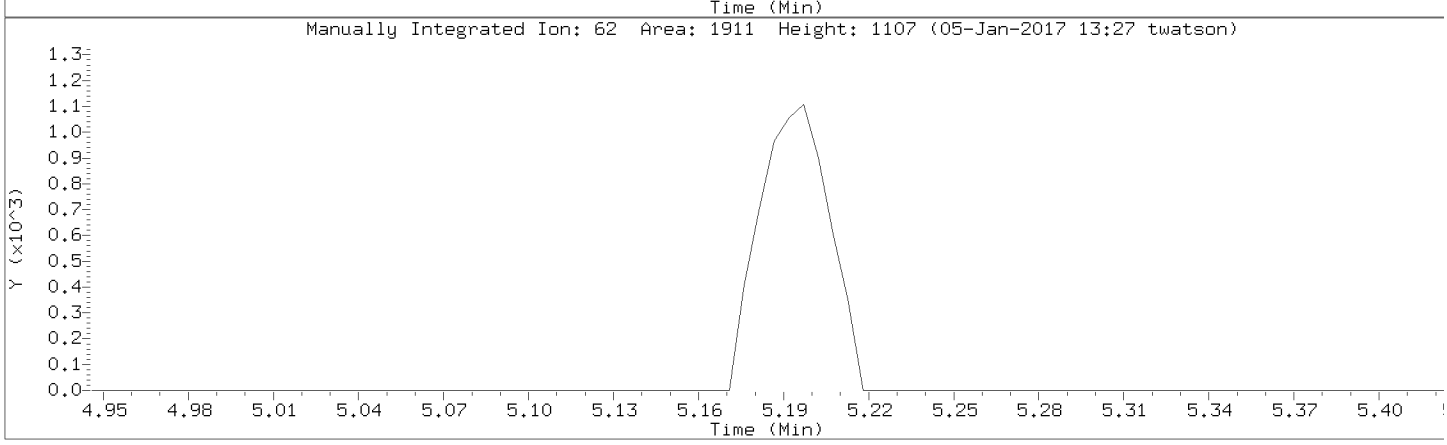
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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Injection Date: 04-JAN-2017 16:09
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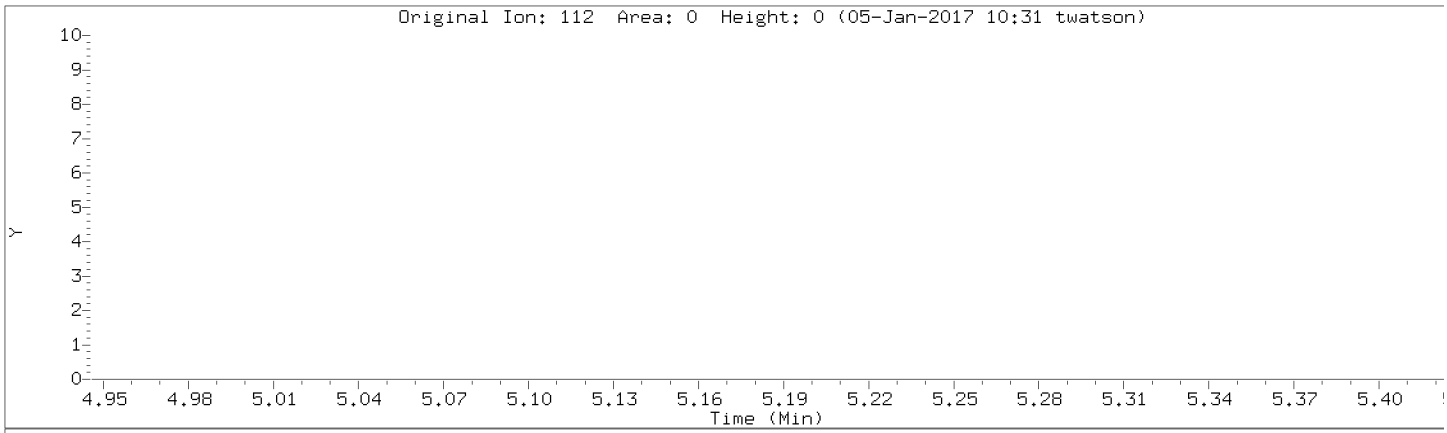
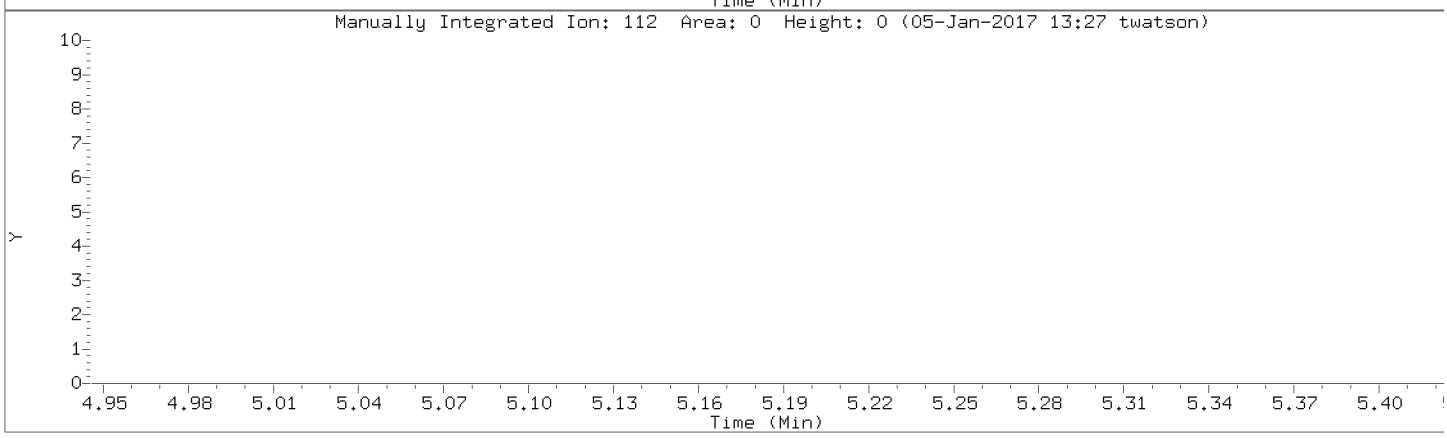
Lab Sample ID: 8260-CAL3,139198:0





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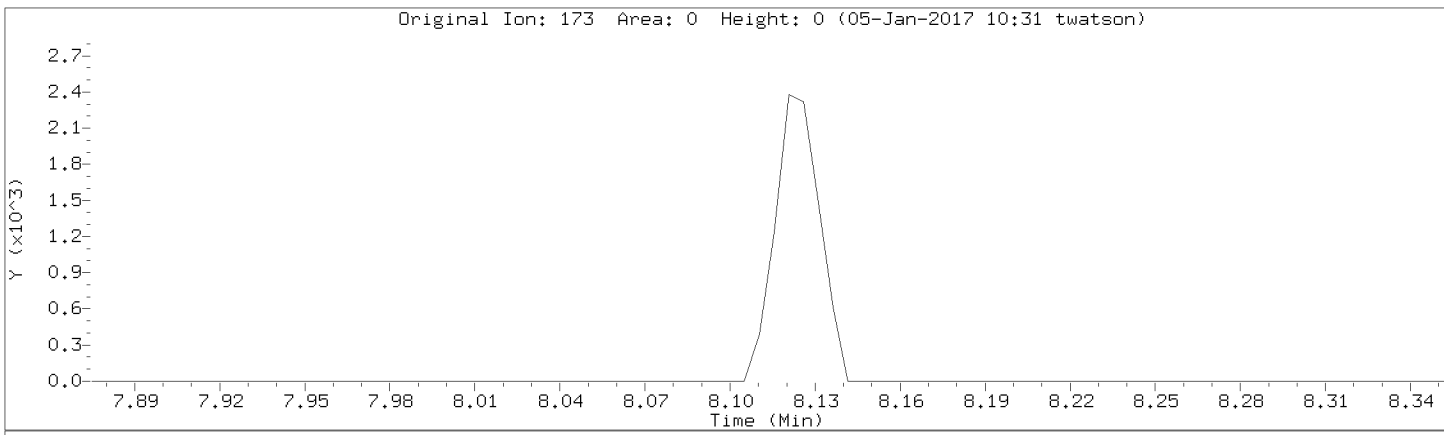
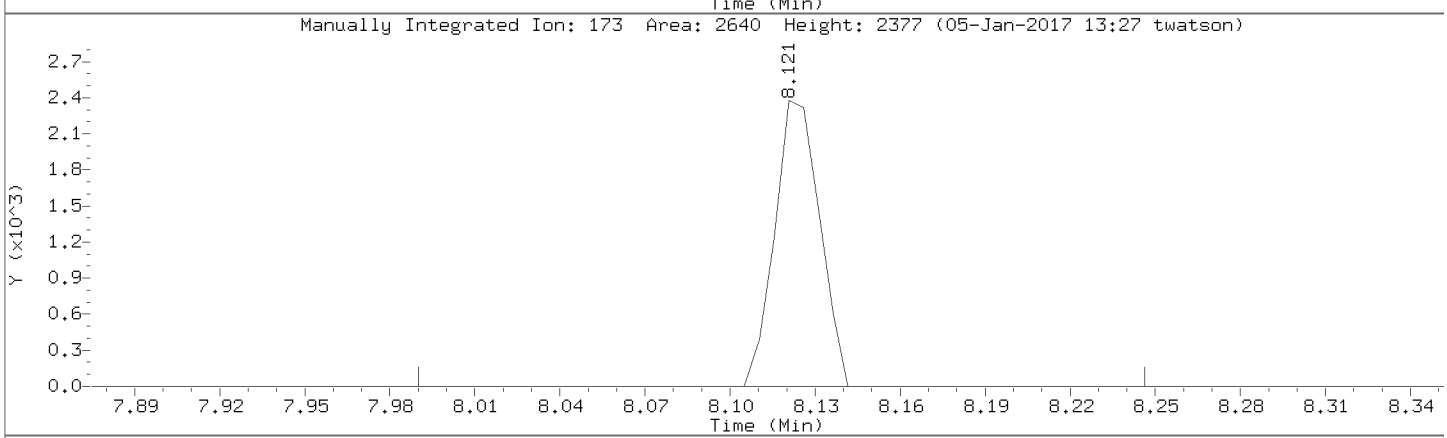
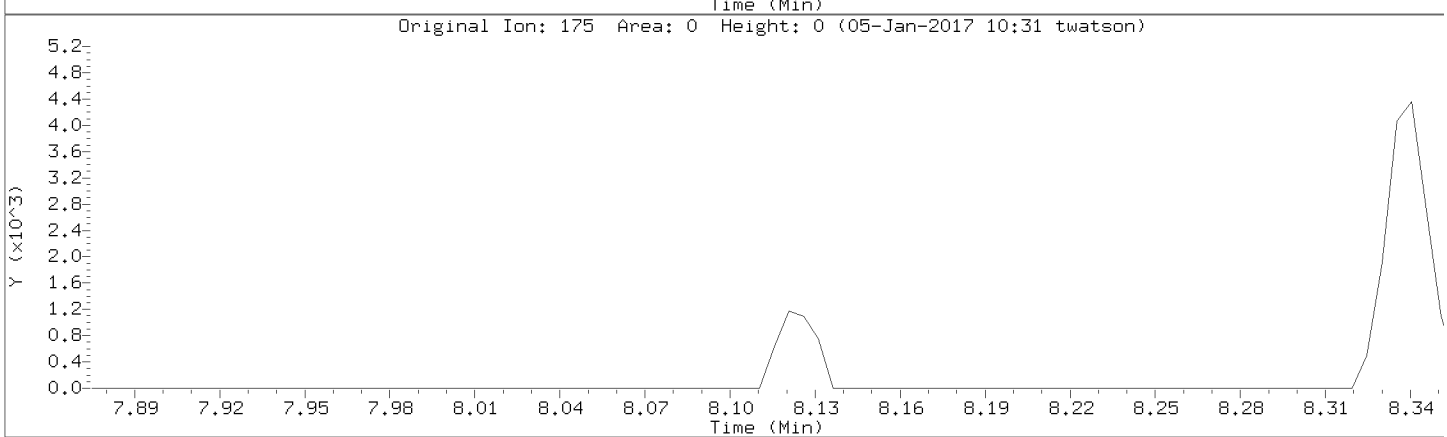
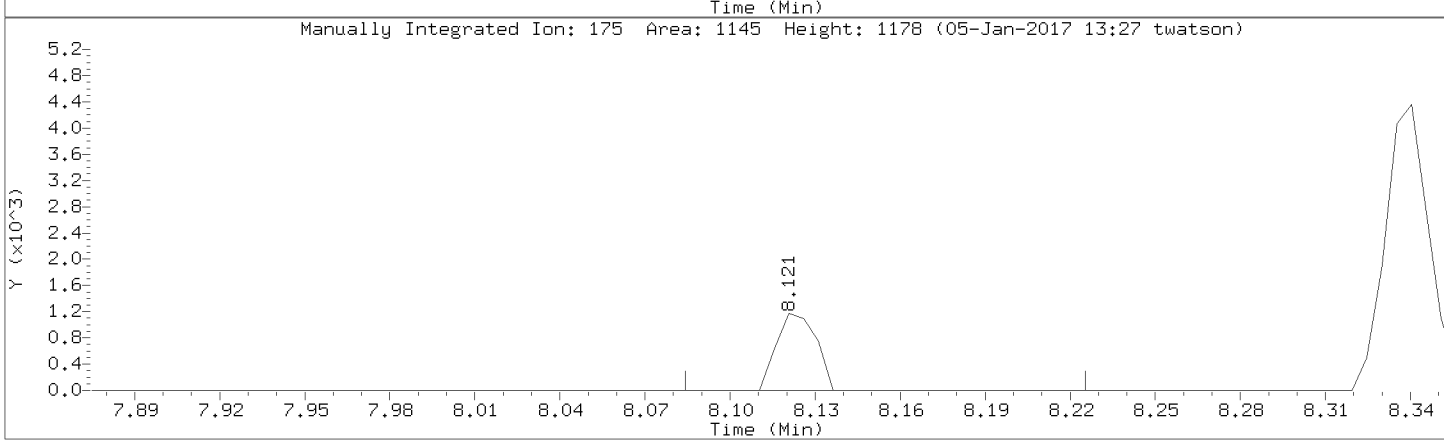
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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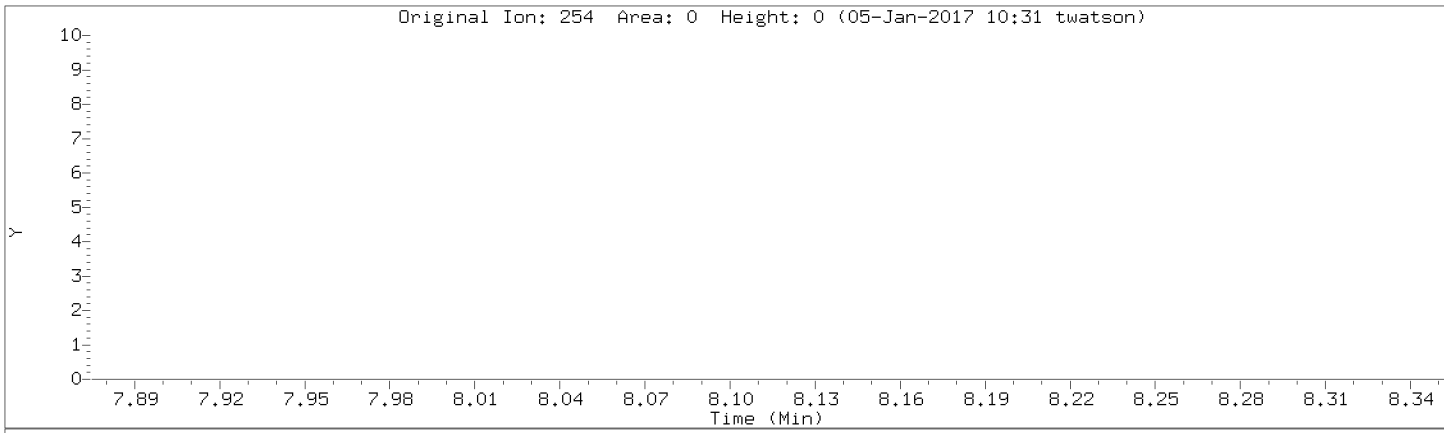
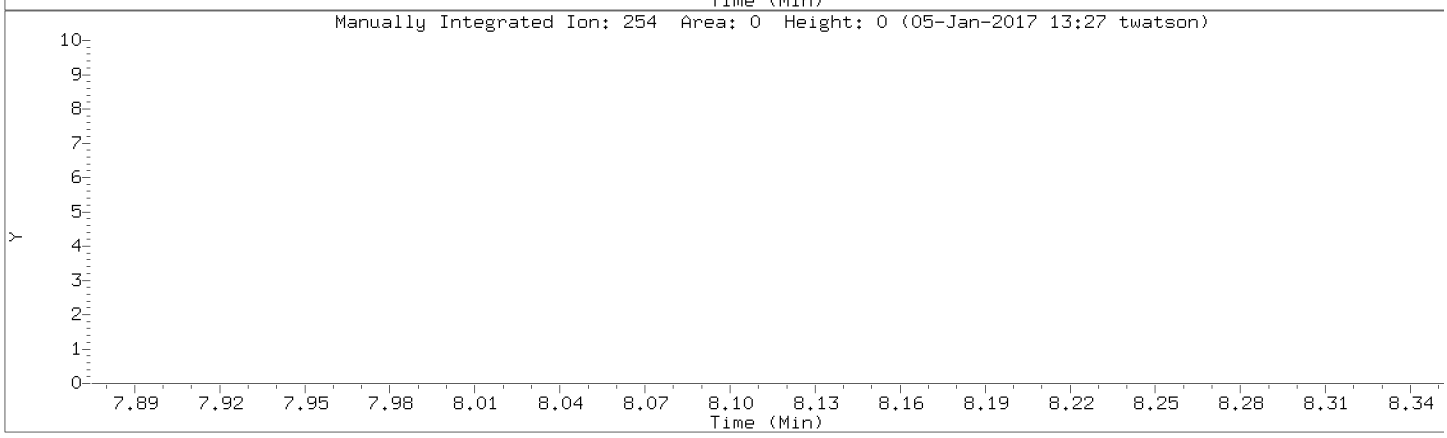
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0





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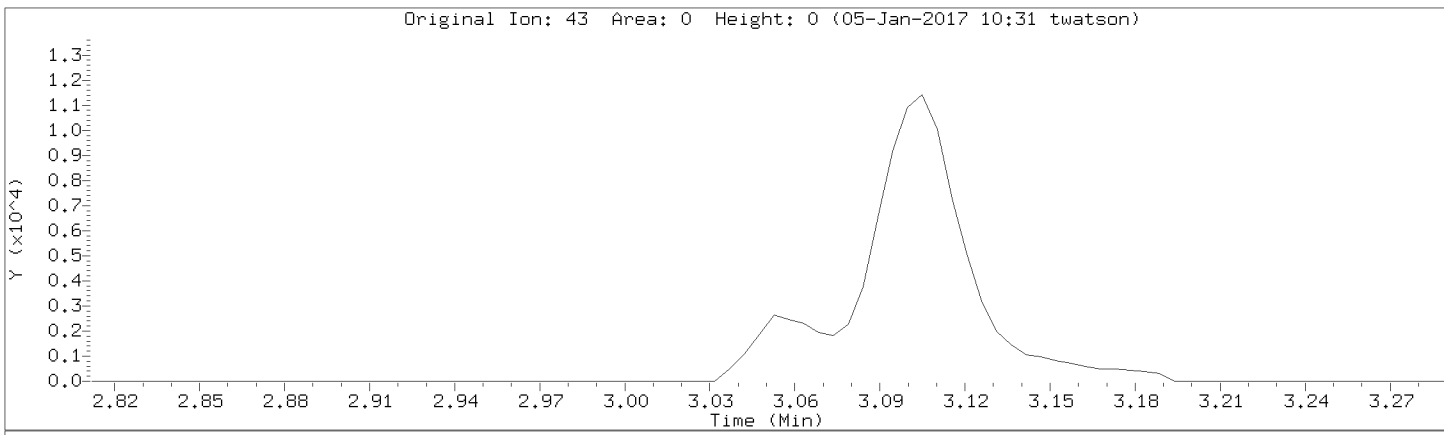
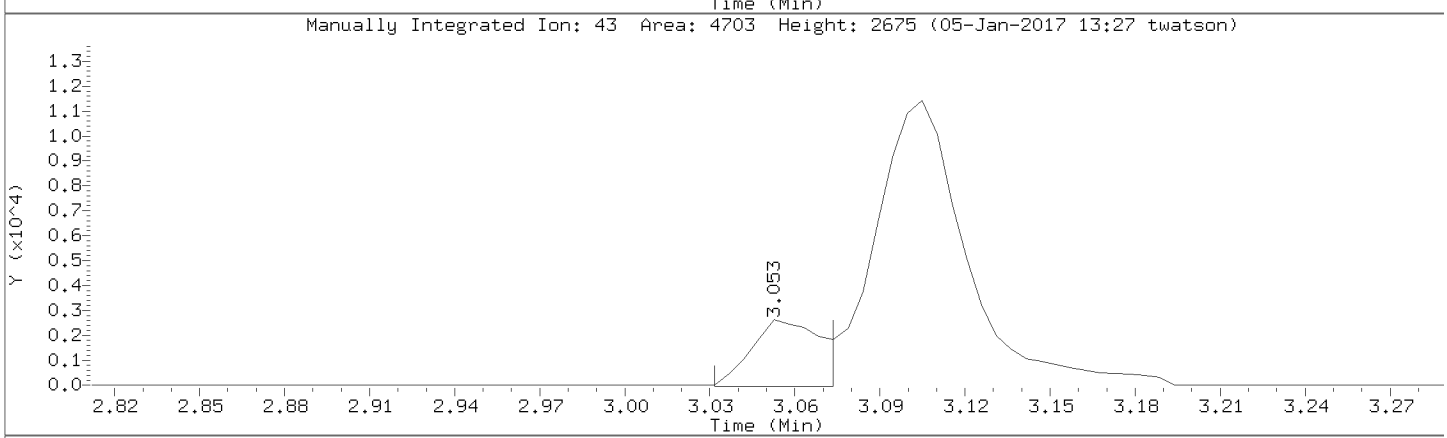
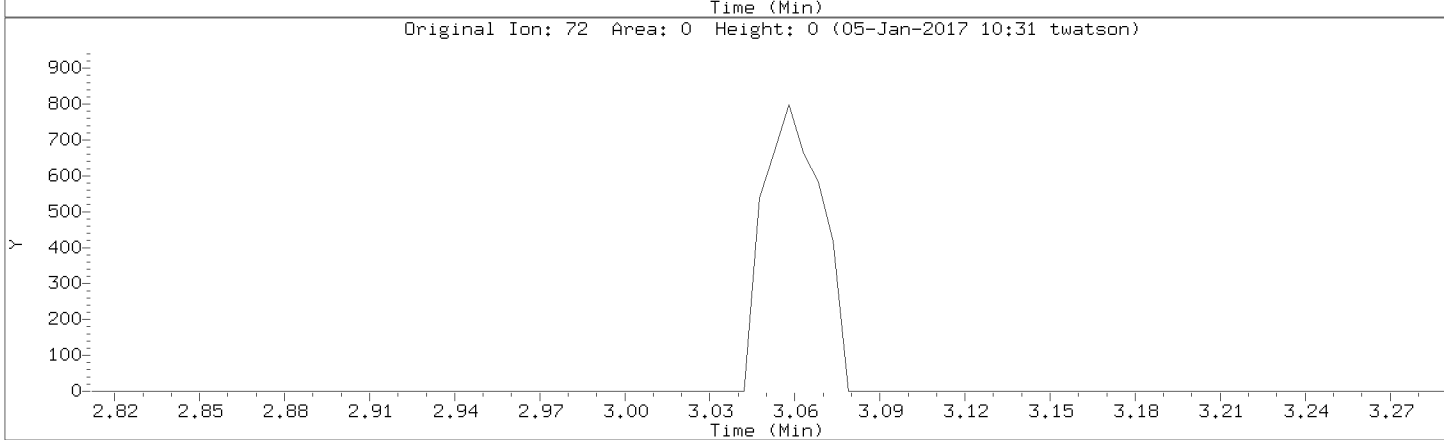
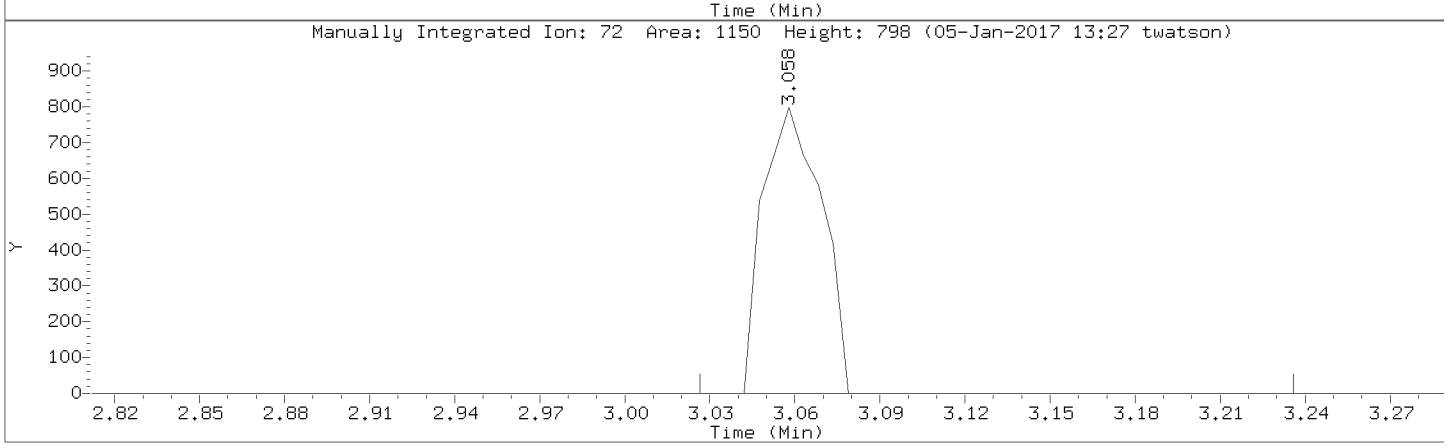
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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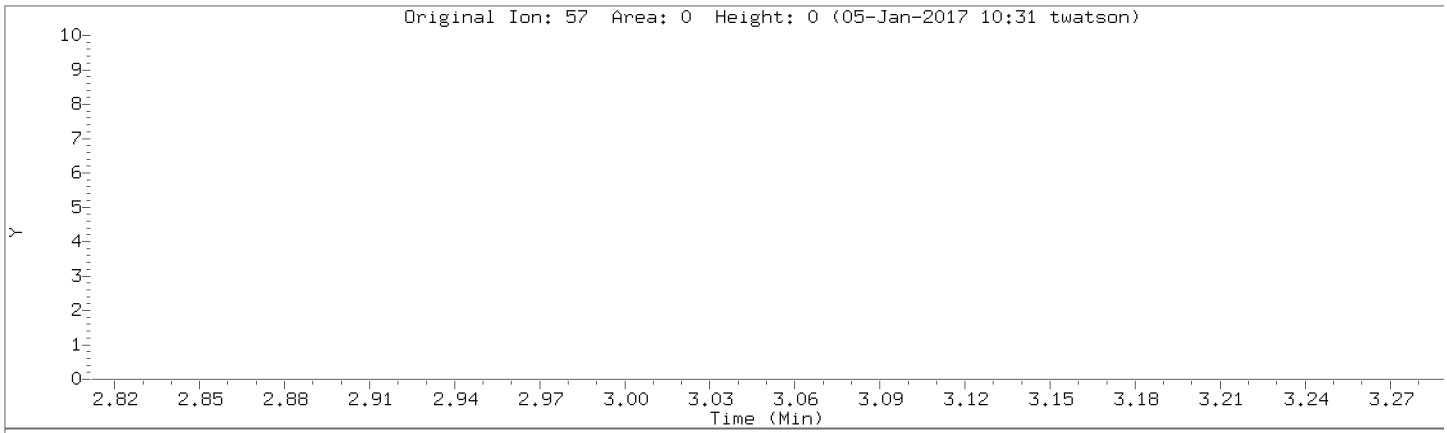
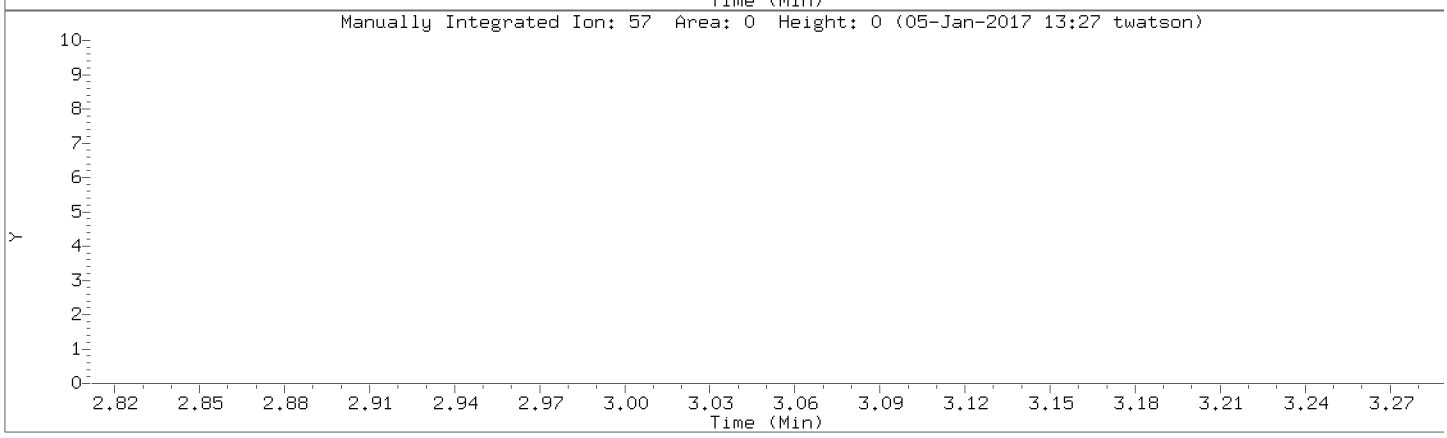
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0





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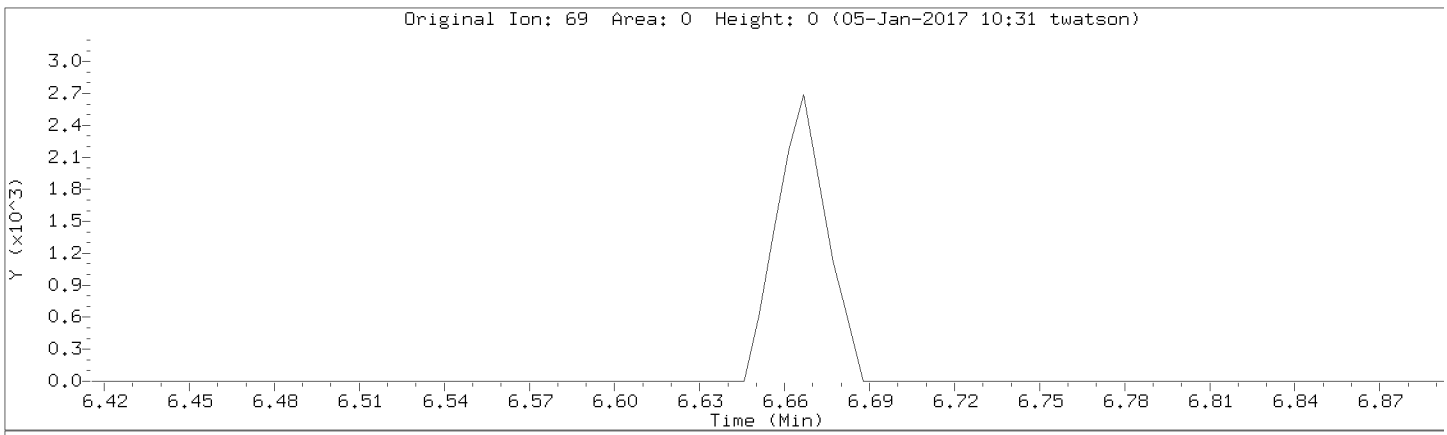
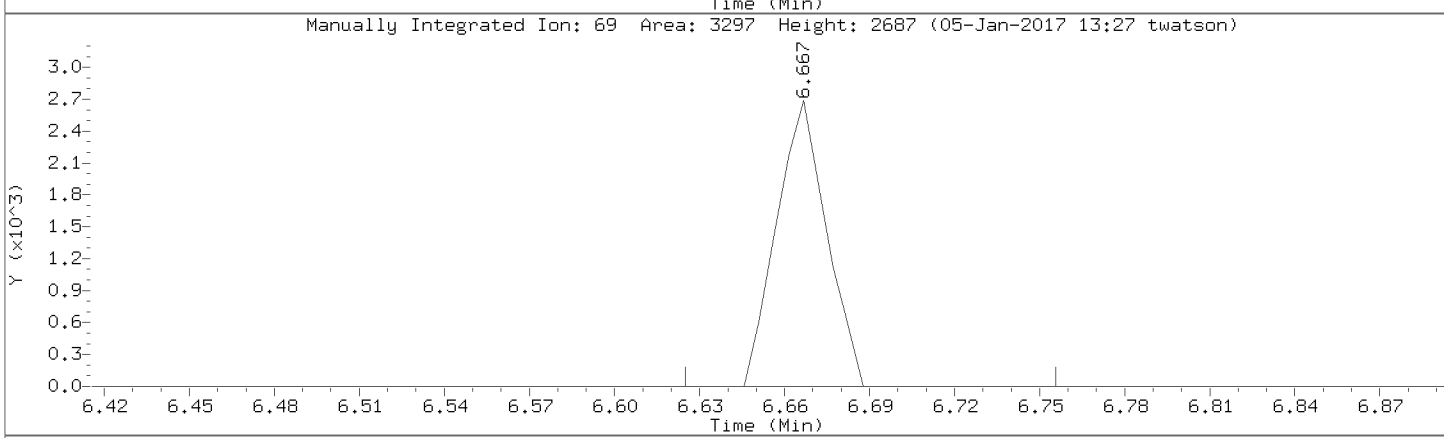
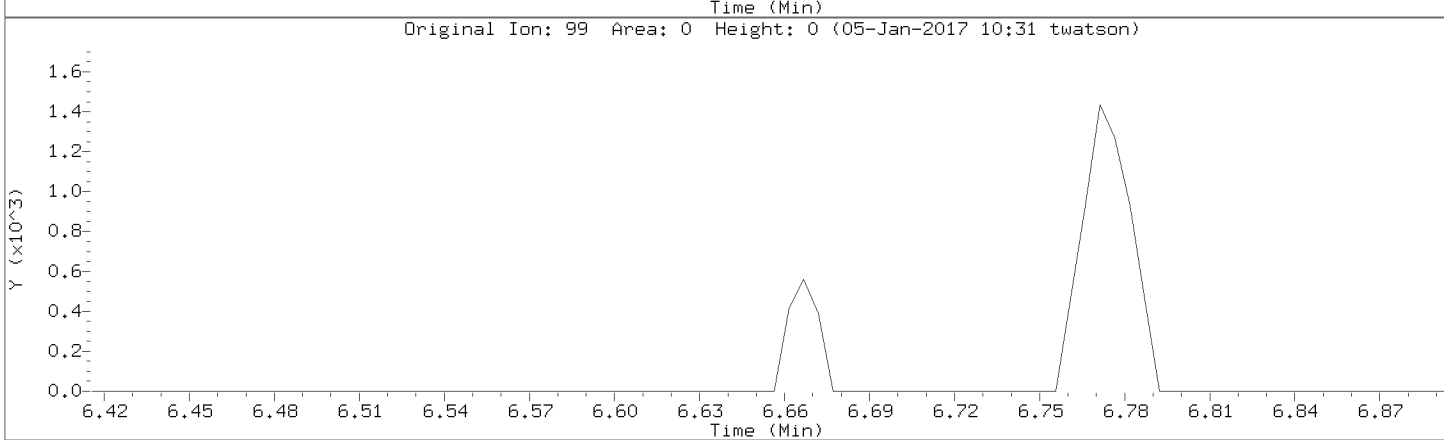
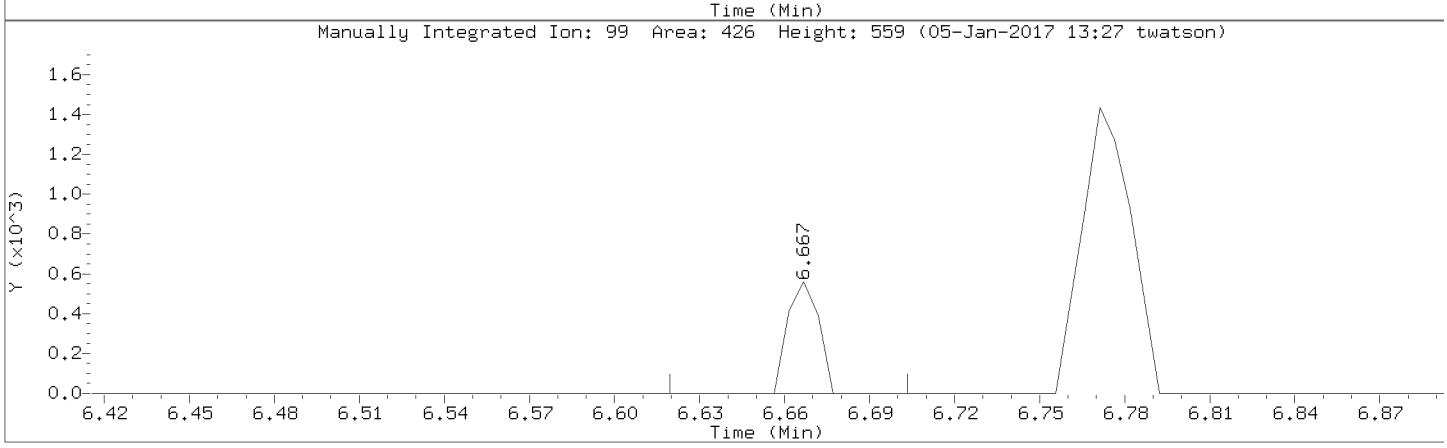
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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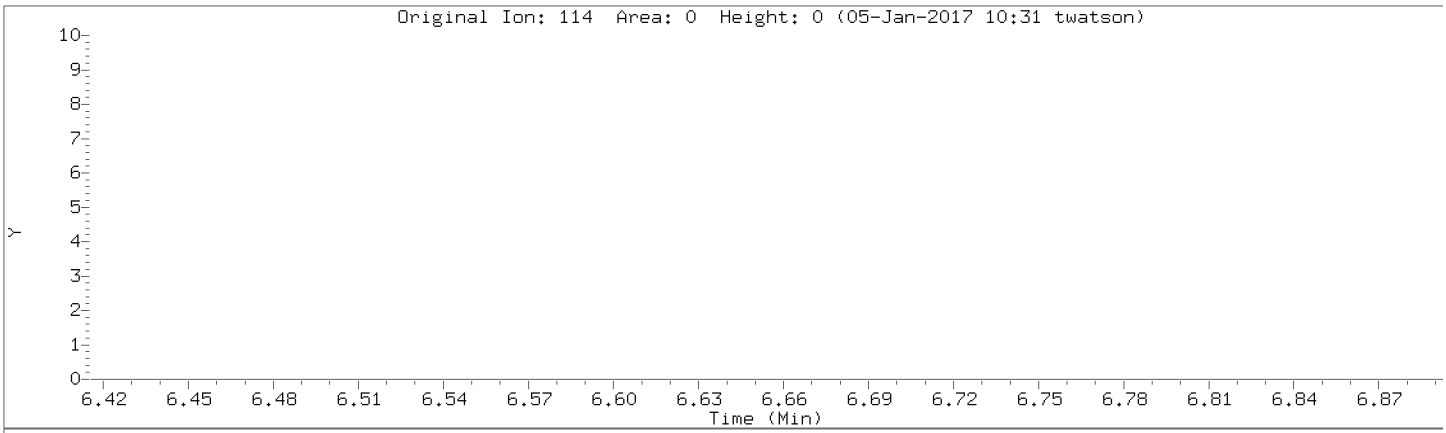
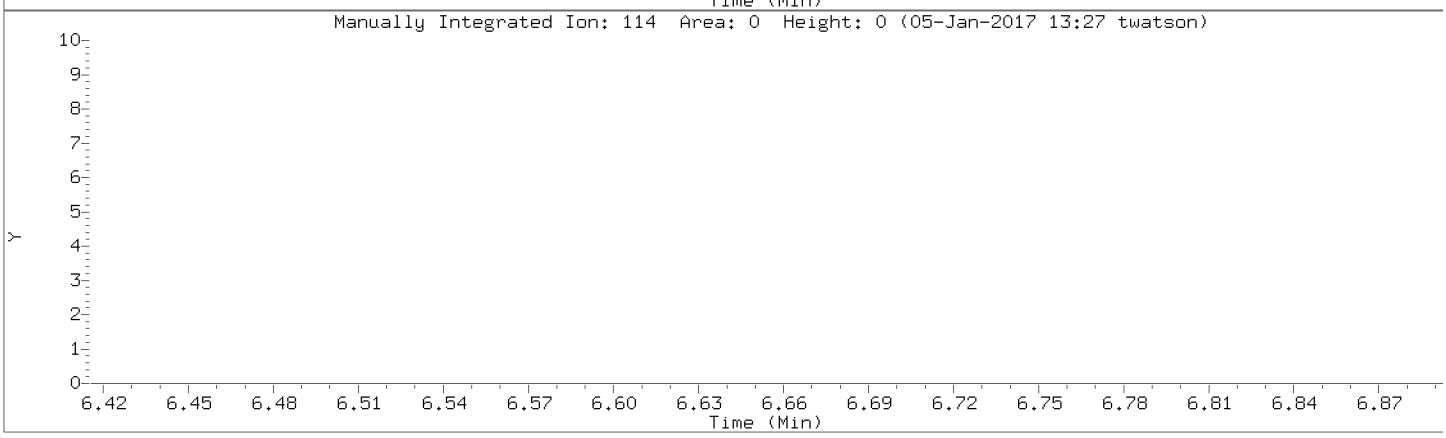
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0





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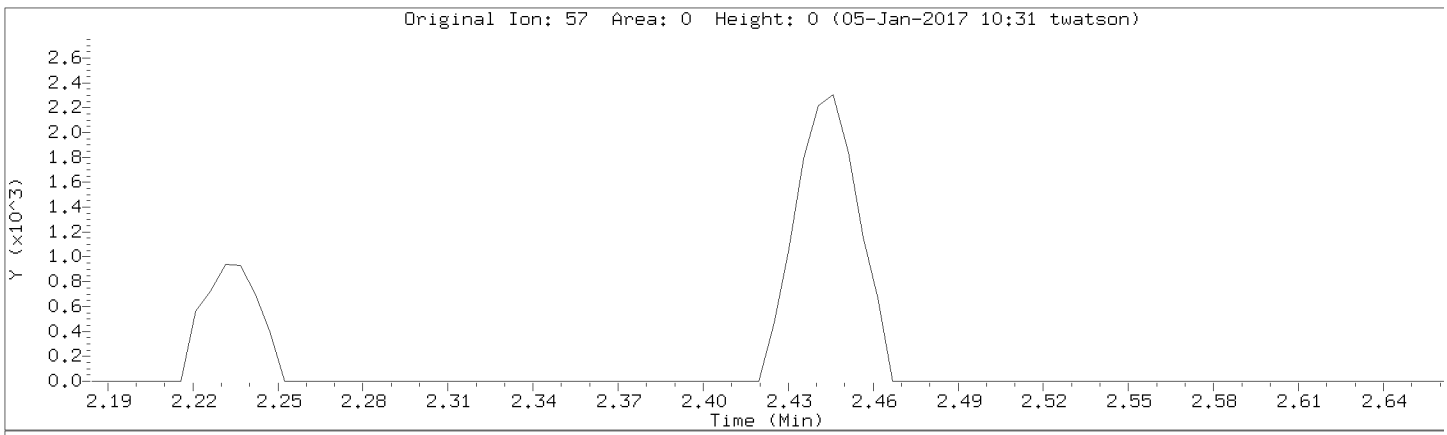
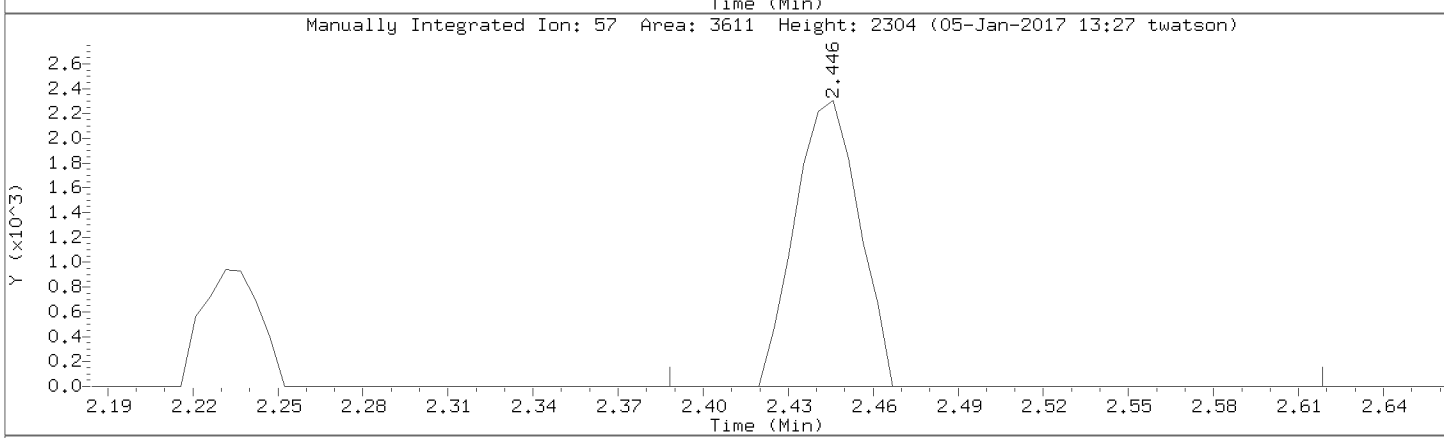
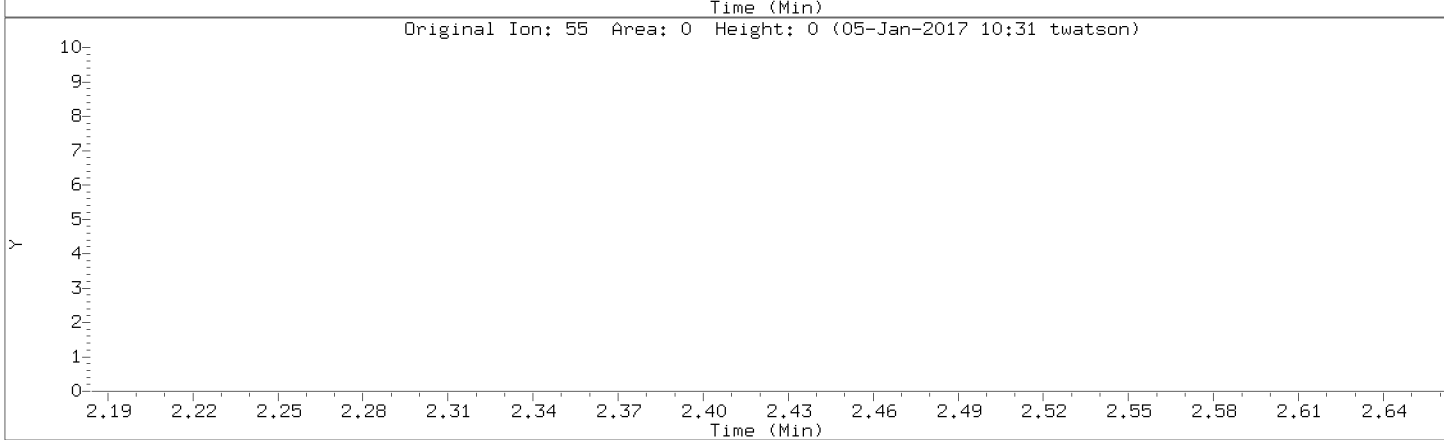
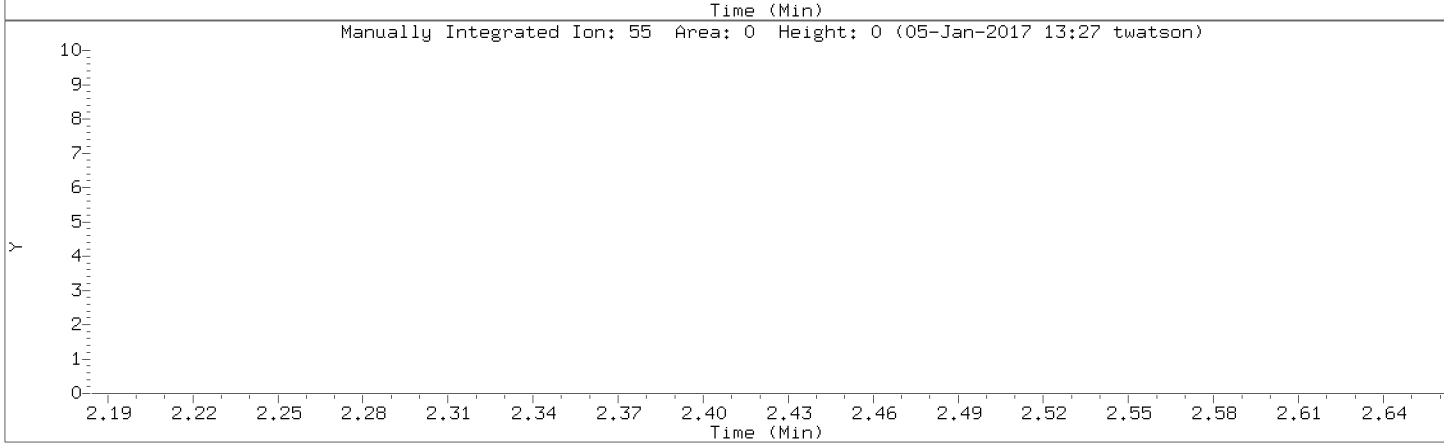
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: n-Hexane Review Code: NI
CAS Number:



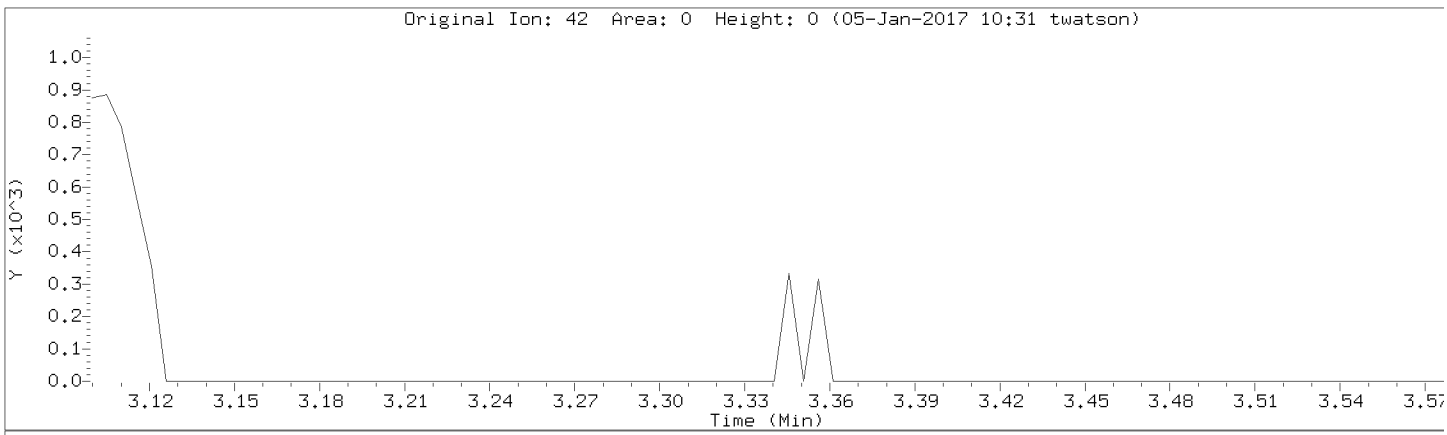


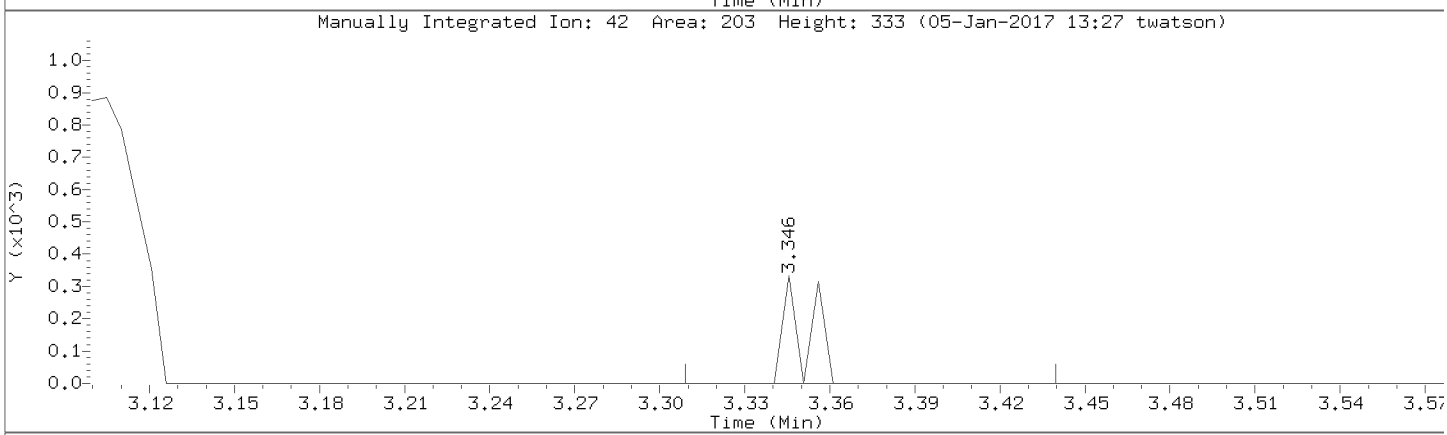


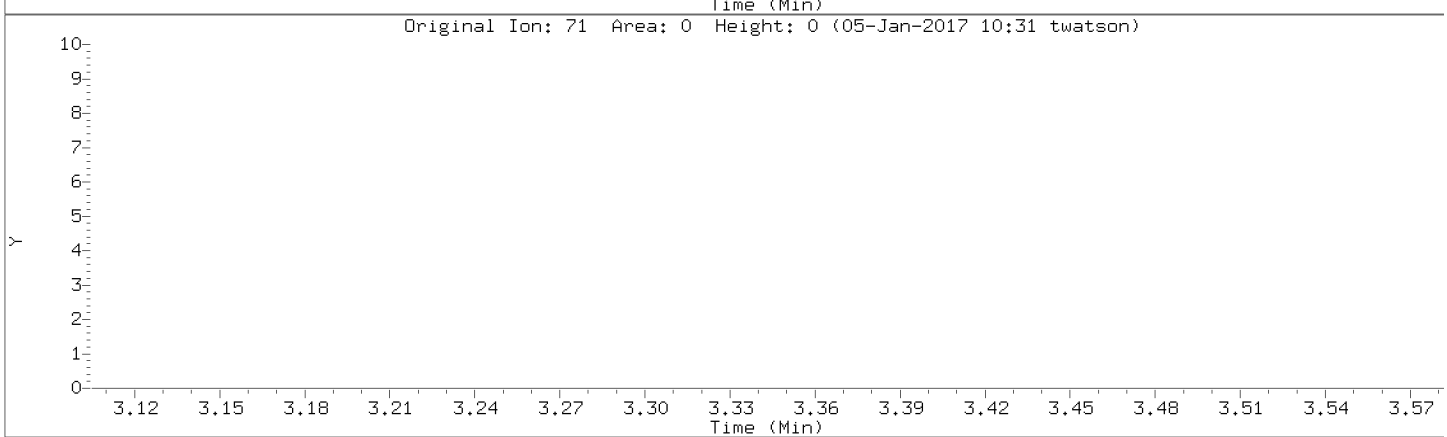


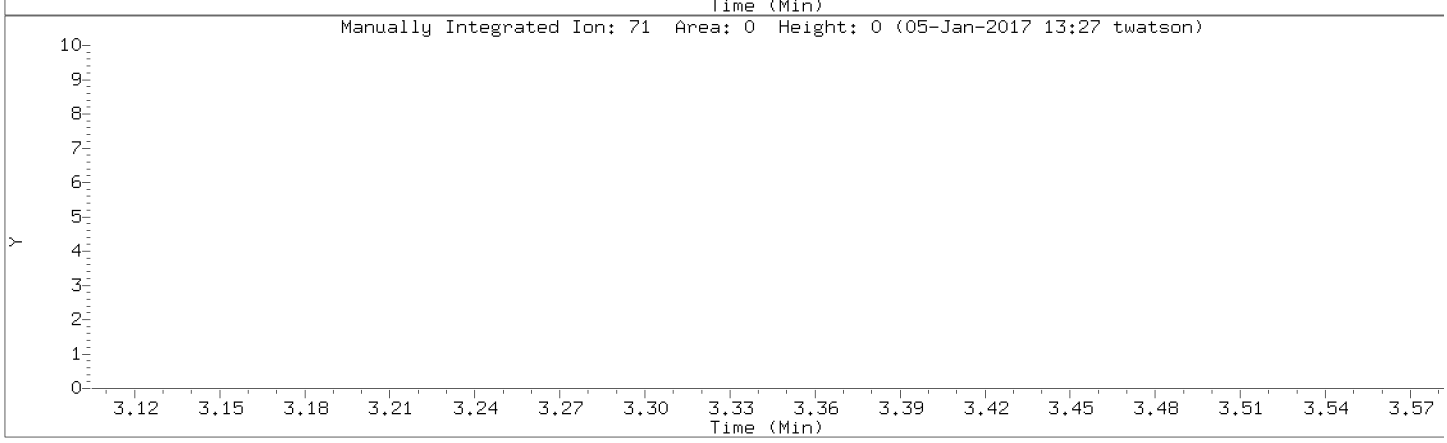
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b03cal3.d
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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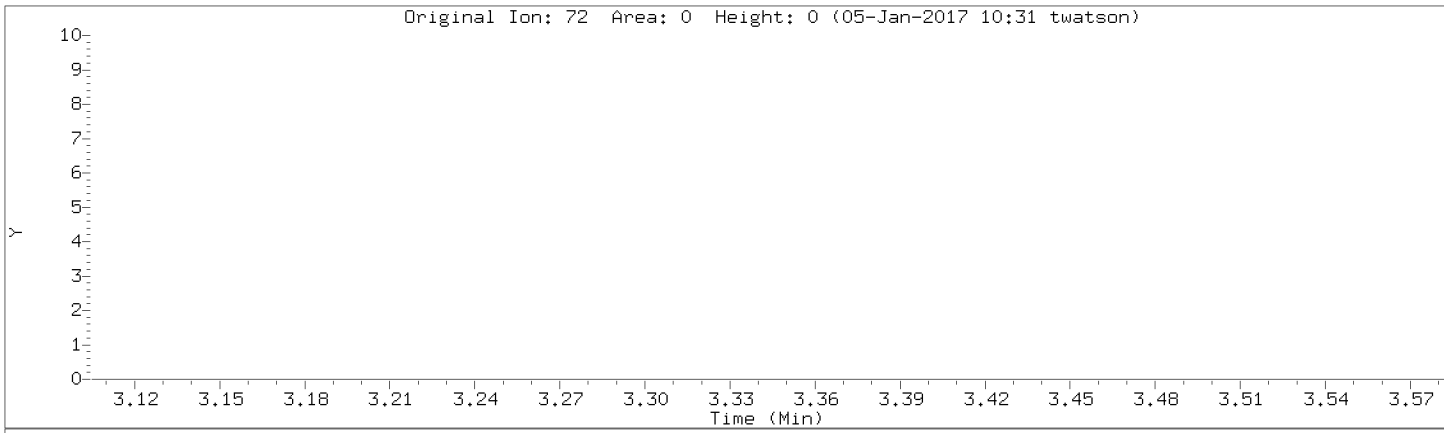
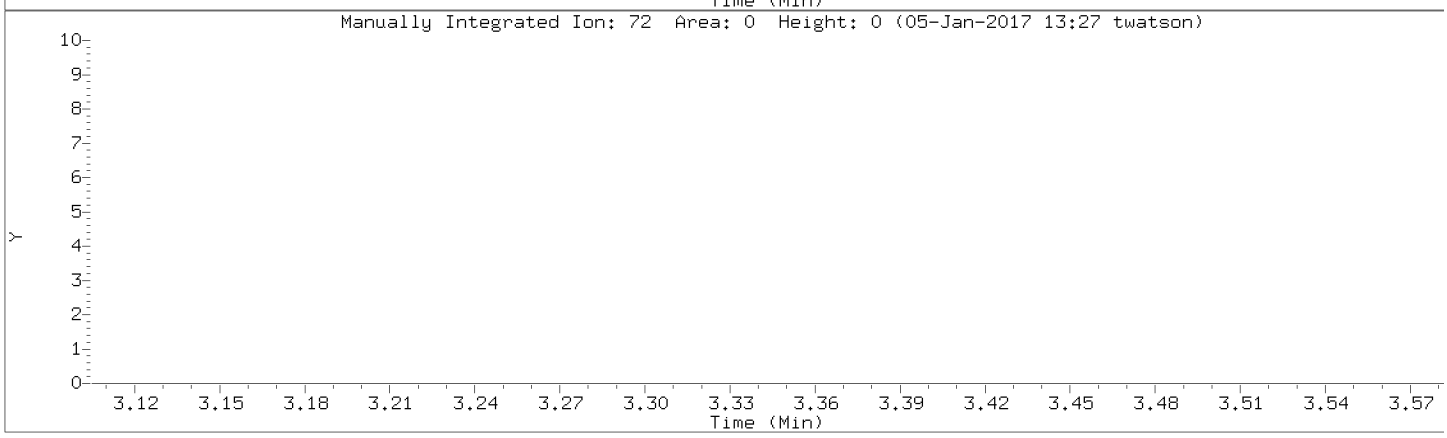
Lab Sample ID: 8260-CAL3,139198:0





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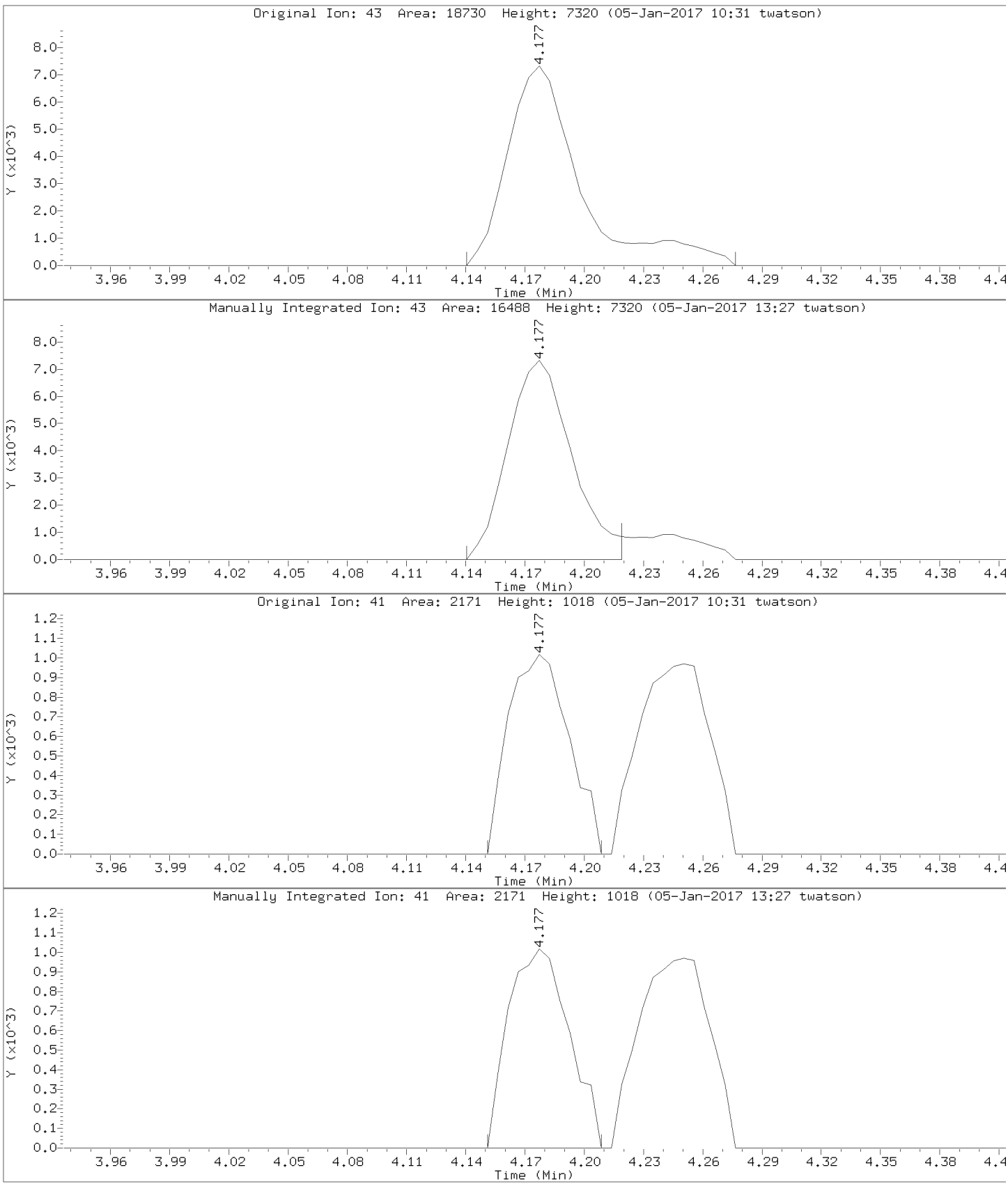
Injection Date: 04-JAN-2017 16:09
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL3,139198:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1



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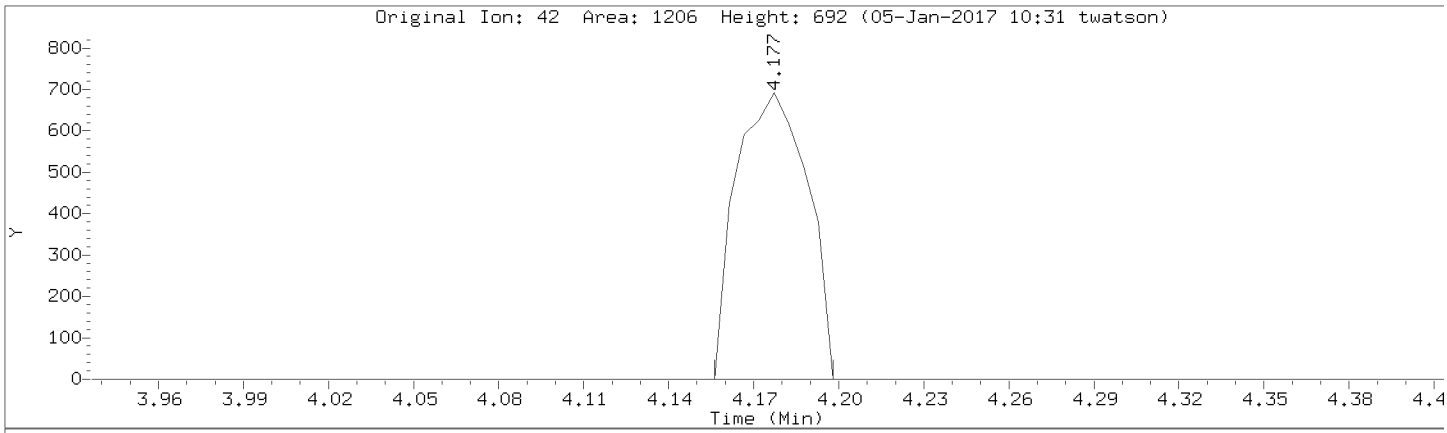
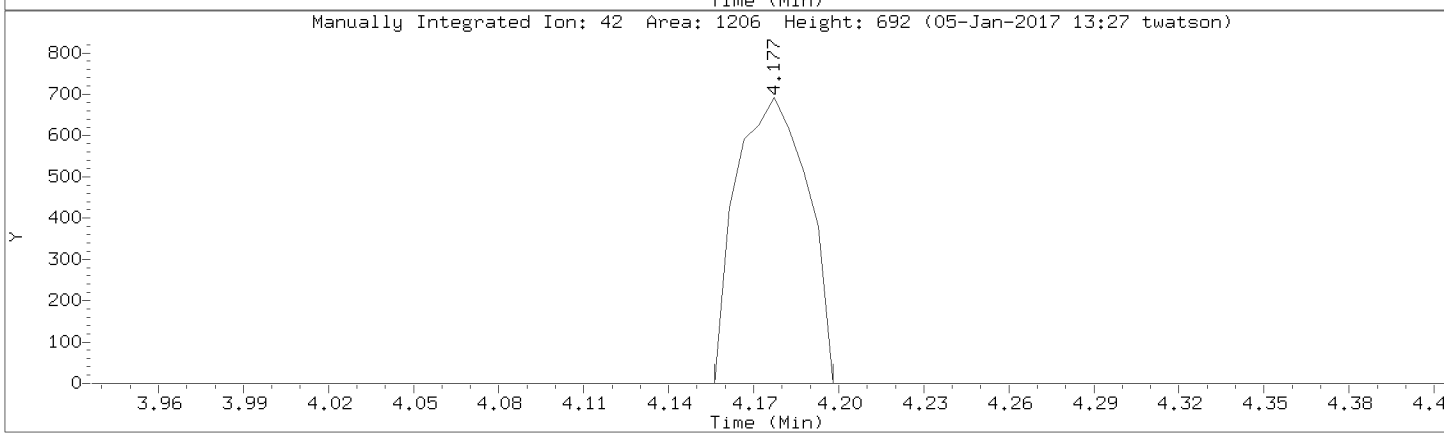
Lab Sample ID: 8260-CAL3,139198:0





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Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b04cal4.d
Lab Smp Id: 8260-CAL4,139199:0 Client Smp ID: 8260-CAL4,139199:0
Inj Date : 04-JAN-2017 16:47
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal4,139199:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 55 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	9150	10.0000	9.18	
2 Chloromethane	50	1.127	1.122	(0.253)	9078	10.0000	10.2	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	7597	10.0000	9.62	
4 Bromomethane	94	1.331	1.316	(0.298)	2831	10.0000	8.55	
5 Chloroethane	64	1.378	1.363	(0.309)	3758	10.0000	9.49	
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	11227	10.0000	9.19	
7 Diethyl ether	74	1.635	1.629	(0.366)	2732	10.0000	8.93	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	6438	10.0000	8.71	
9 Acrolein	56	1.713	1.708	(0.384)	10565	200.000	187	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	6337	10.0000	8.79	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	5037	10.0000	8.53	
12 Acetone	43	1.781	1.781	(0.399)	6567	50.0000	49.8	
13 Iodomethane	142	1.870	1.860	(0.419)	12459	20.0000	12.2	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	19060	10.0000	9.36	
15 Methyl Acetate	43	1.964	1.959	(0.440)	3582	10.0000	9.02	
16 Acetonitrile	39	1.980	1.975	(0.444)	10490	10.0000	9.53	
17 allyl chloride	41	1.985	1.975	(0.445)	13556	20.0000	18.8	
18 Methylene Chloride	84	2.064	2.053	(0.462)	6268	10.0000	9.28	
19 tert-Butyl Alcohol	59	2.095	2.111	(0.469)	673	20.0000	13.8(QM)	NI
20 Acrylonitrile	53	2.200	2.200	(0.493)	5067	40.0000	35.6	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	15440	10.0000	9.02	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.504)	5385	10.0000	8.55	
	23 n-Hexane	57	2.445	2.435	(0.548)	7091	10.0000	8.41	
	24 Vinyl Acetate	43	2.560	2.560	(0.574)	33652	40.0000	38.5	
	25 1,1-Dichloroethane	63	2.576	2.571	(0.577)	9856	10.0000	9.19	
	26 Chloroprene	53	2.634	2.628	(0.590)	6073	10.0000	8.46	
	27 2-Butanone	43	3.057	3.063	(0.685)	7766	50.0000	48.0	
	28 1,2-Dichloroethene (cis)	96	3.083	3.083	(0.691)	6213	10.0000	9.02	
	29 2,2-Dichloropropane	77	3.089	3.083	(0.692)	8500	10.0000	8.96	
	31 Methacrylonitrile	41	3.282	3.282	(0.735)	2151	10.0000	8.78	
	32 Bromochloromethane	49	3.340	3.335	(0.748)	4041	10.0000	10.0	
	33 Tetrahydrofuran	42	3.355	3.350	(0.752)	847	10.0000	7.00(M)	NI
	34 Chloroform	83	3.455	3.450	(0.774)	11174	10.0000	9.18	
	35 1,1,1-Trichloroethane	97	3.643	3.638	(0.816)	9892	10.0000	9.22	
$	36 Dibromofluoromethane (S)	113	3.643	3.638	(0.816)	46685	50.0000	51.2	
	37 Cyclohexane	56	3.742	3.727	(0.838)	7576	10.0000	9.15	
	38 n-butyl chloride	56	3.795	3.795	(0.850)	8989	10.0000	8.70	
	39 Carbon Tetrachloride	117	3.842	3.837	(0.861)	8637	10.0000	8.60	
	40 1,1-Dichloropropene	75	3.842	3.842	(0.861)	7854	10.0000	8.87	
	41 Benzene	78	4.082	4.082	(0.914)	23351	10.0000	8.96	
	42 1,2-Dichloroethane	62	4.166	4.166	(0.933)	7476	10.0000	9.32(M)	
	43 Isobutyl alcohol	43	4.177	4.187	(0.936)	31184	10.0000	9.18(M)	GT
	44 2,2,4-Trimethylpentane	57	4.245	4.245	(0.951)	17078	10.0000	8.70	
*	45 Fluorobenzene (IS)	96	4.464	4.459	(1.000)	149511	50.0000		
	46 Trichloroethene	95	4.898	4.893	(1.097)	6021	10.0000	8.74	
	47 Methylcyclohexane	55	5.160	5.155	(1.156)	6098	10.0000	8.36	
	48 1,2-Dichloropropane	63	5.191	5.197	(1.163)	5416	10.0000	9.15(M)	NI
	49 Dibromomethane	93	5.291	5.291	(1.185)	4162	10.0000	9.51	
	50 Methyl methacrylate	69	5.291	5.291	(1.185)	3072	10.0000	8.63	
	51 1,4-Dioxane	88	5.285	5.291	(1.184)	304	200.000	164(QM)	NI
	52 Bromodichloromethane	83	5.505	5.505	(1.233)	8471	10.0000	9.05	
	53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	5829	20.0000	18.4	
	54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	9563	10.0000	9.14	
	55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	20278	50.0000	46.3	
$	56 Toluene-d8 (S)	98	6.263	6.263	(0.832)	158446	50.0000	51.2	
	57 Toluene	91	6.331	6.337	(0.841)	26738	10.0000	9.24	
	58 trans-1,3-Dichloropropene	75	6.593	6.598	(0.876)	8549	10.0000	9.19	
	59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	6701	10.0000	9.52(M)	NI
	60 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	4442	10.0000	9.52	
	61 Tetrachloroethene	166	6.828	6.828	(0.907)	7669	10.0000	8.82	
	62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	8550	10.0000	9.36	
	63 2-Hexanone	43	6.959	6.964	(0.924)	15108	50.0000	47.9	
	64 Dibromochloromethane	129	7.090	7.090	(0.942)	7553	10.0000	9.06	
	65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	6038	10.0000	9.52	
*	66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	121331	50.0000		
	67 Chlorobenzene	112	7.550	7.555	(1.003)	20063	10.0000	9.40	
	68 1,1,1,2-Tetrachloroethane	131	7.623	7.629	(1.013)	6899	10.0000	8.97	
	69 Ethylbenzene	106	7.629	7.634	(1.013)	10042	10.0000	8.74	
	70 m&p-Xylene	106	7.723	7.728	(1.026)	24884	20.0000	17.5	
	71 o-Xylene	106	7.984	7.984	(1.060)	12739	10.0000	9.14	
	72 Styrene	104	8.000	8.000	(1.063)	21697	10.0000	9.39	
	73 Bromoform	173	8.120	8.125	(0.901)	5245	10.0000	8.92	
	74 Isopropylbenzene	105	8.225	8.225	(1.092)	32657	10.0000	8.78	
$	75 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.107)	57529	50.0000	49.9	
	76 Bromobenzene	77	8.418	8.418	(1.118)	14302	10.0000	10.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 1,1,2,2-Tetrachloroethane	83	8.424	8.429	(0.934)	7721	10.0000	9.49	
78 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.121)	1298	10.0000	8.22	
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	2092	10.0000	9.15(Q)	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	37856	10.0000	9.18	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	22983	10.0000	9.61	
82 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.952)	28331	10.0000	9.15	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	8846	10.0000	8.96	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	24916	10.0000	9.02	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	29496	10.0000	9.19	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	37352	10.0000	8.64	
87 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	18205	10.0000	9.46	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	32739	10.0000	9.22	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	73807	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	18832	10.0000	9.40	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	29181	10.0000	9.22	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	17556	10.0000	9.36	
93 1,2-Dibromo-3-chloropropane	155	9.627	9.627	(1.068)	1460	10.0000	9.20(Q)	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	13406	10.0000	9.48	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	7234	10.0000	8.67	
96 Naphthalene	128	10.191	10.191	(1.131)	28199	10.0000	8.75	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	12479	10.0000	9.42	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	13989	10.0000	9.02	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	12670	10.0000	8.99	
148 Ethyl Acetate	88	3.104	3.110	(0.695)	1534	80.0000	76.3(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

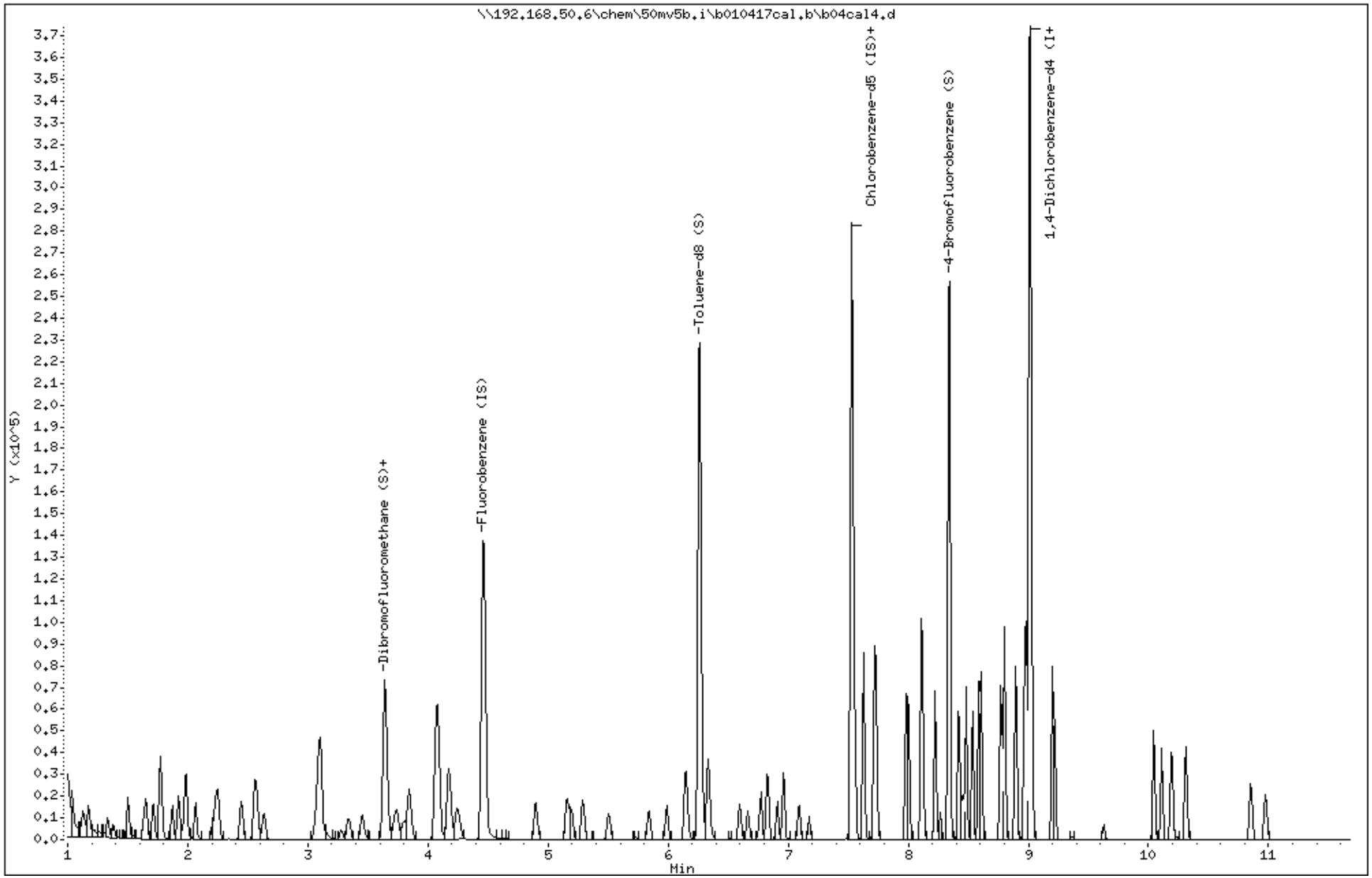
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b04cal4.d
Date : 04-JAN-2017 16:47
Client ID: 8260-CAL4,139199:0
Sample Info: 8260-CAL4,139199:0

Column phase: DB-624

Instrument: 50mv5b.i

Operator: TMW

Column diameter: 0.18



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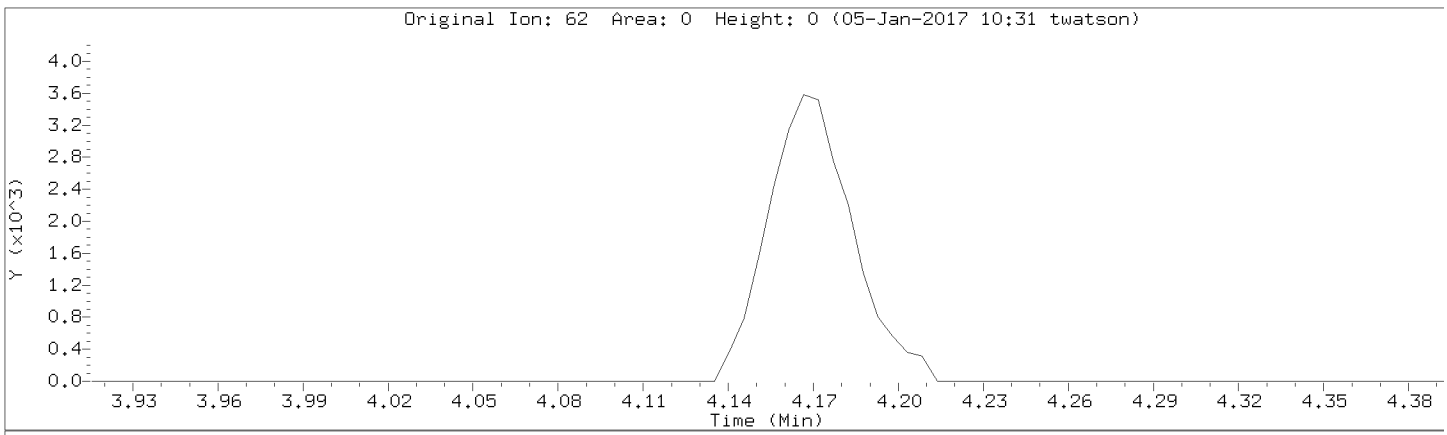
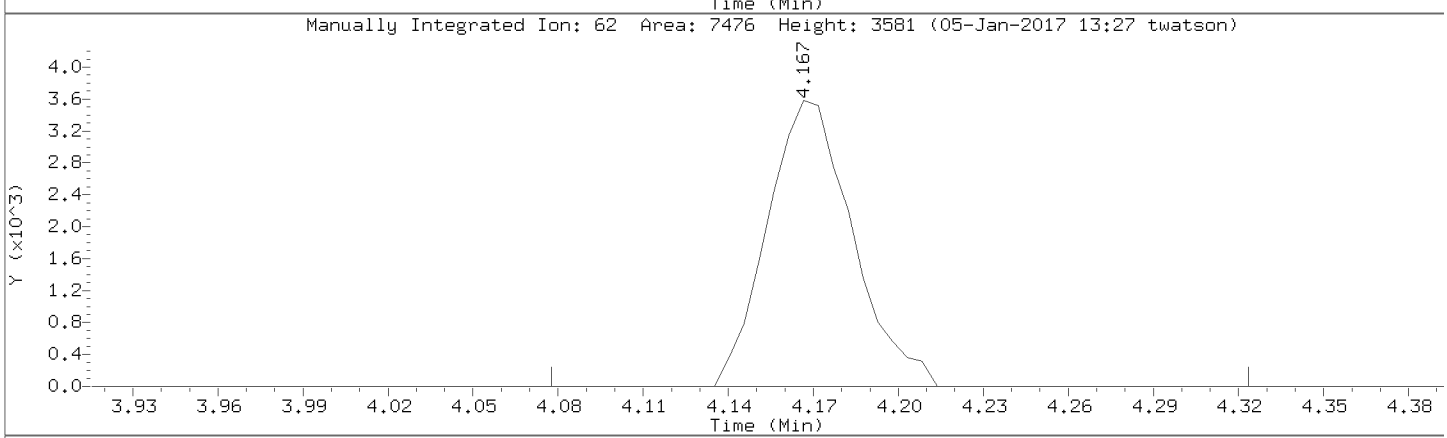
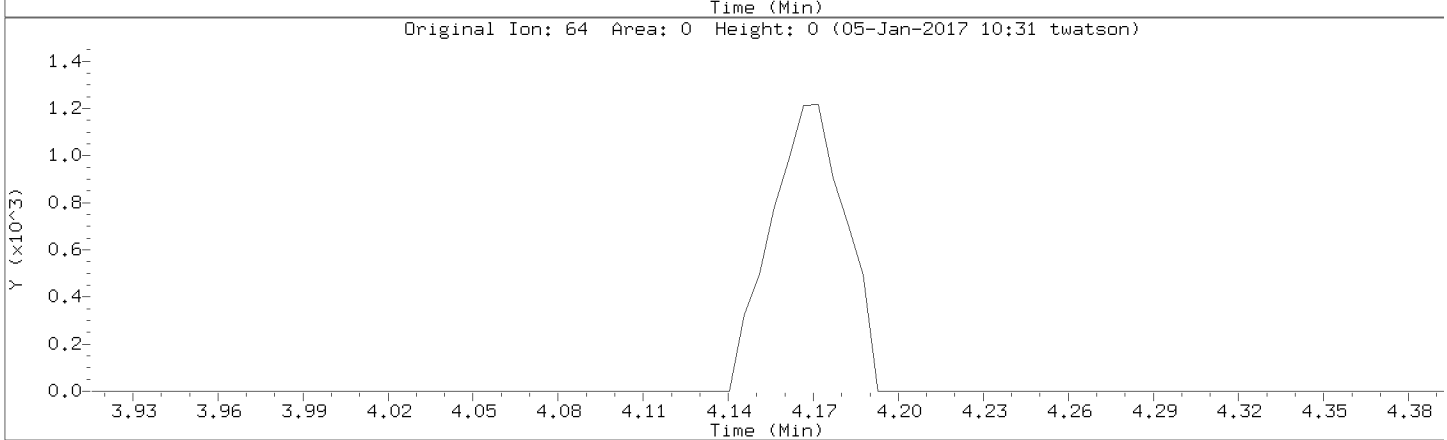
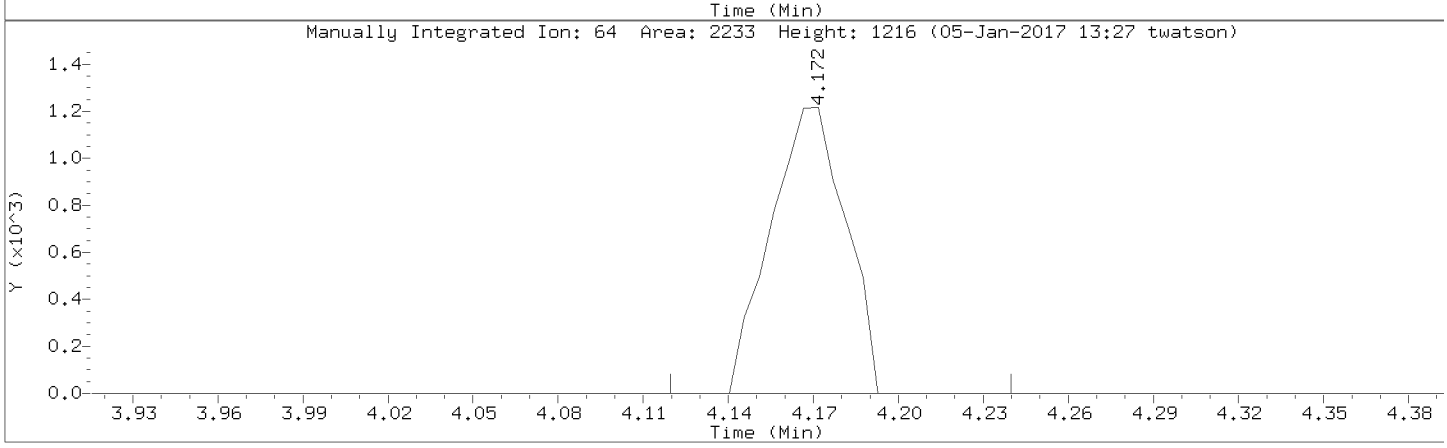
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: 1,2-Dichloroethane Review Code:
CAS Number: 107-06-2









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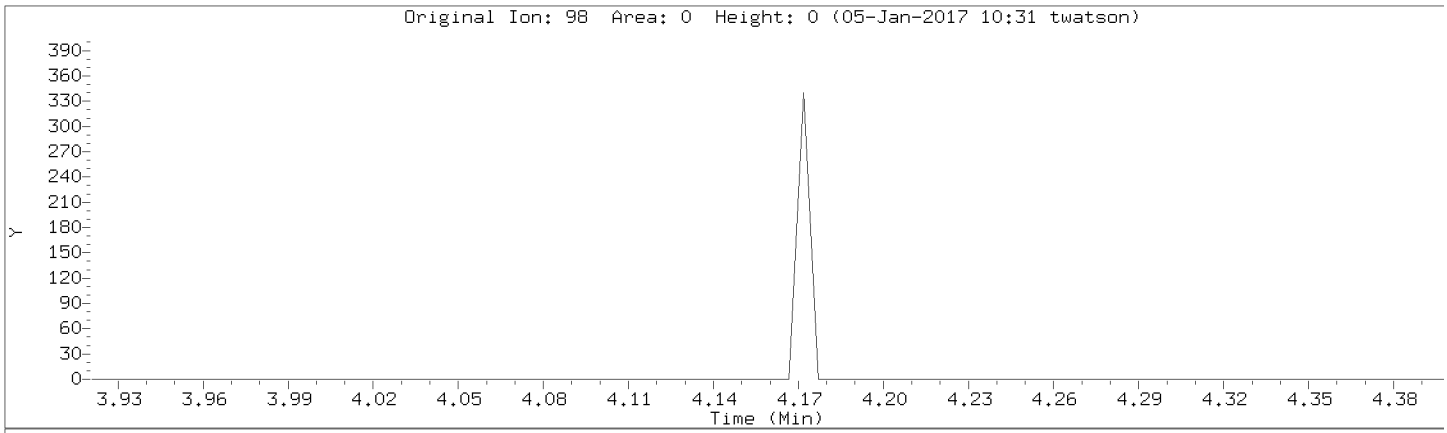
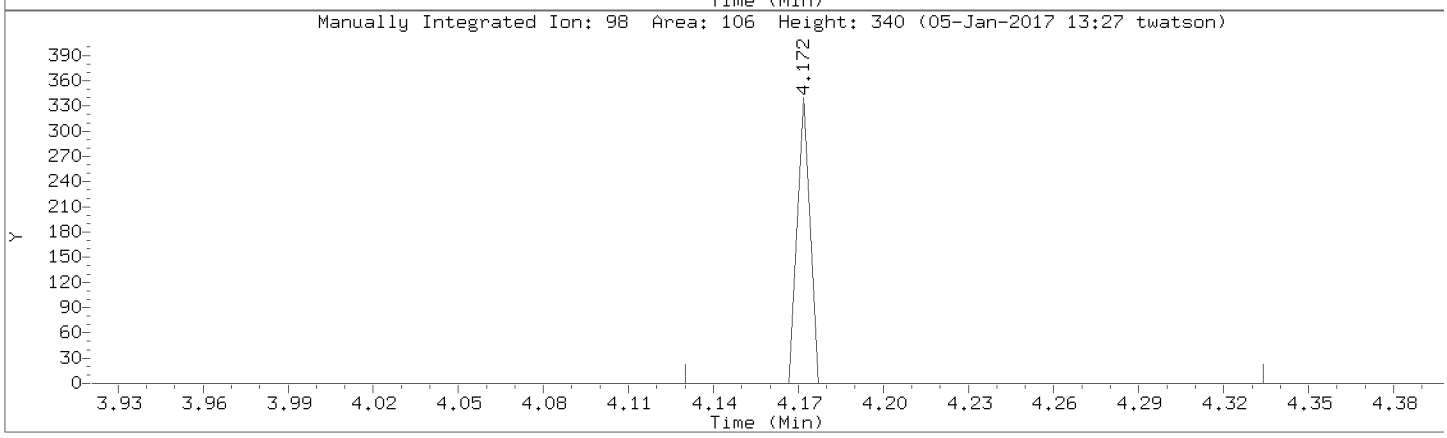
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0





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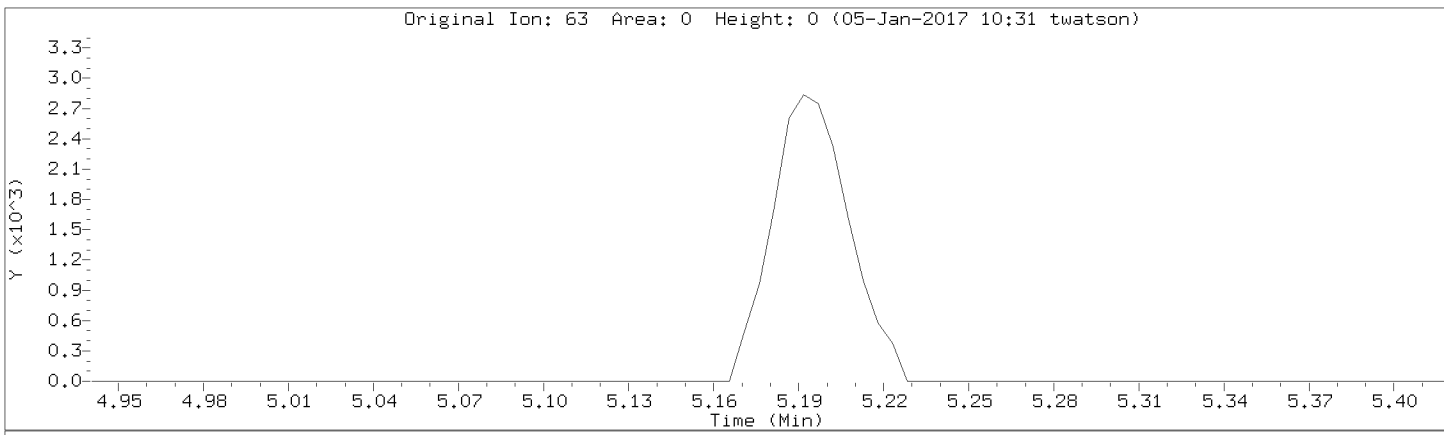
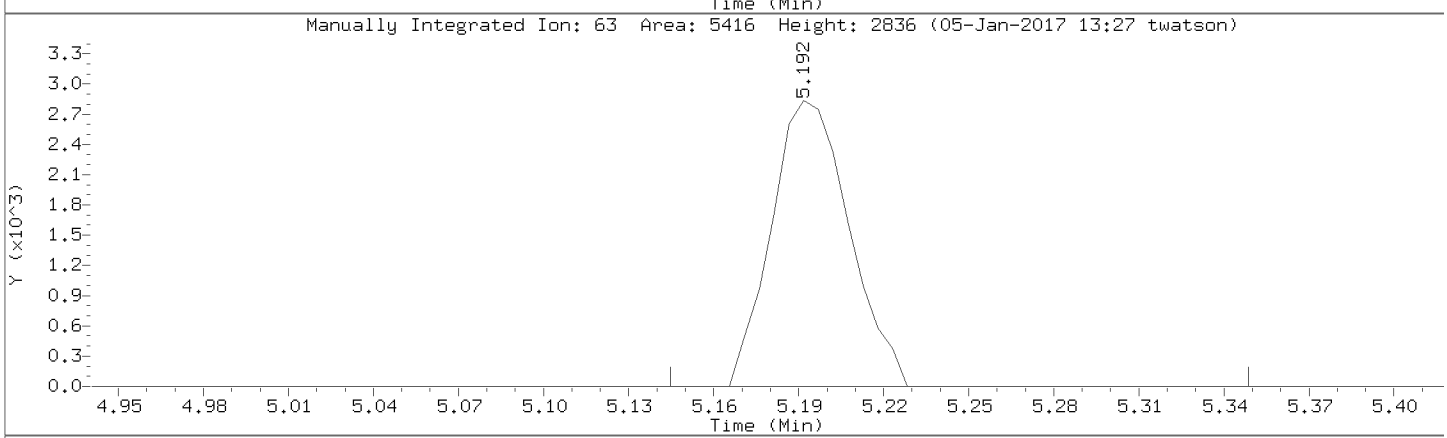
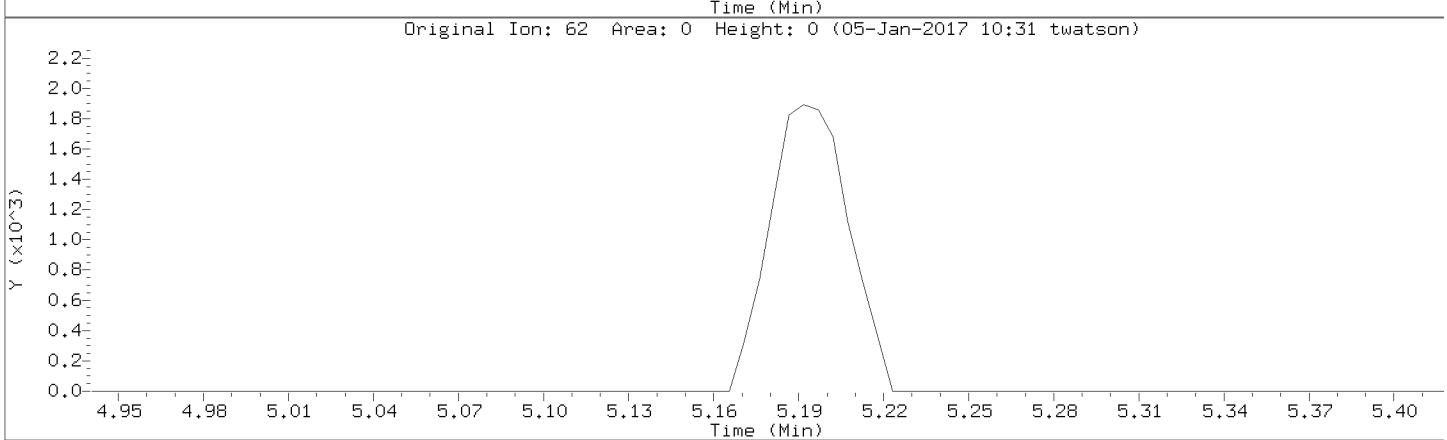
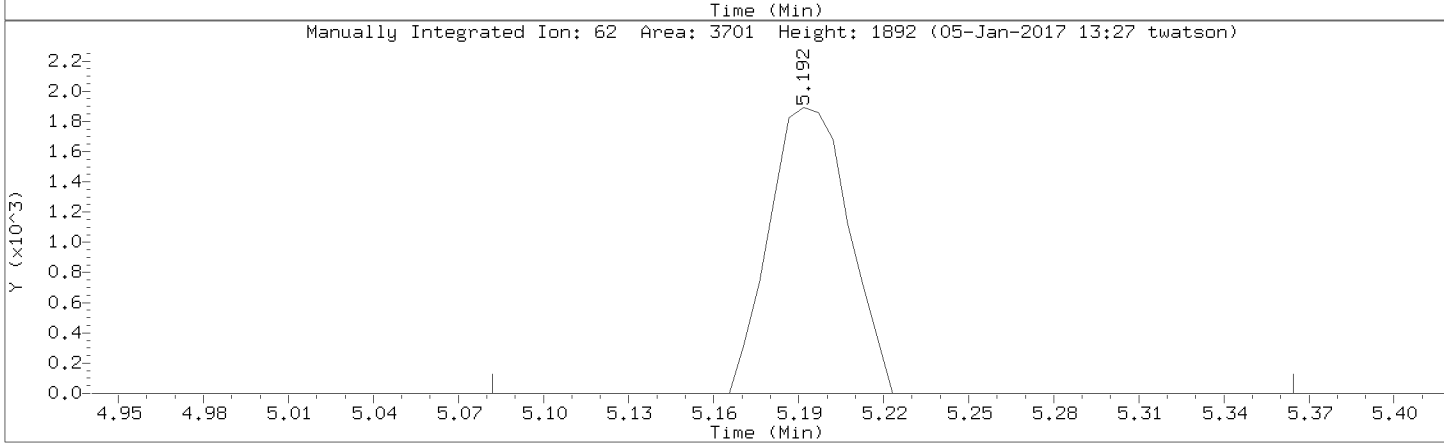
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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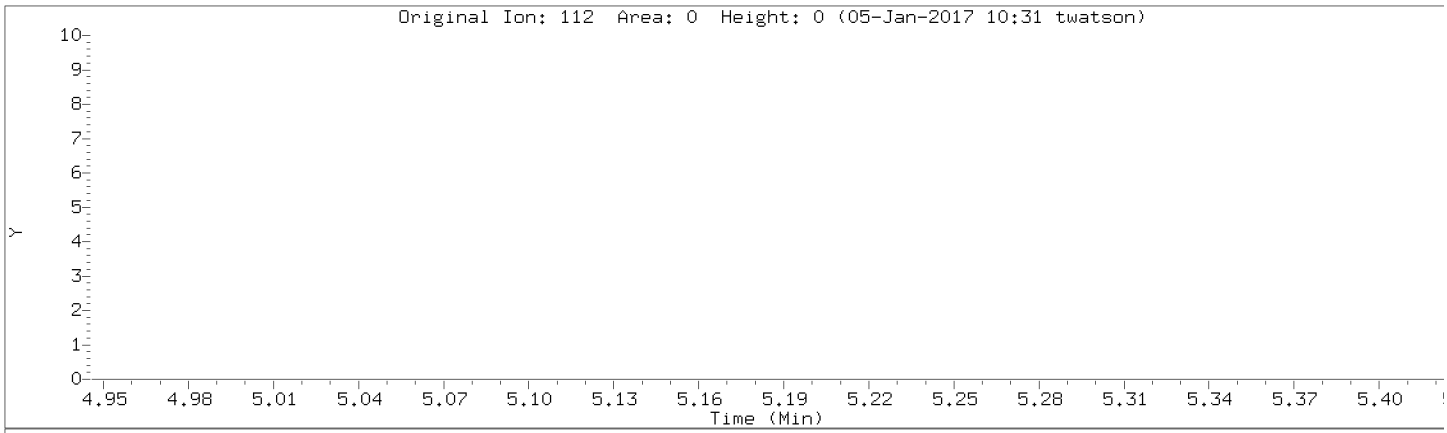
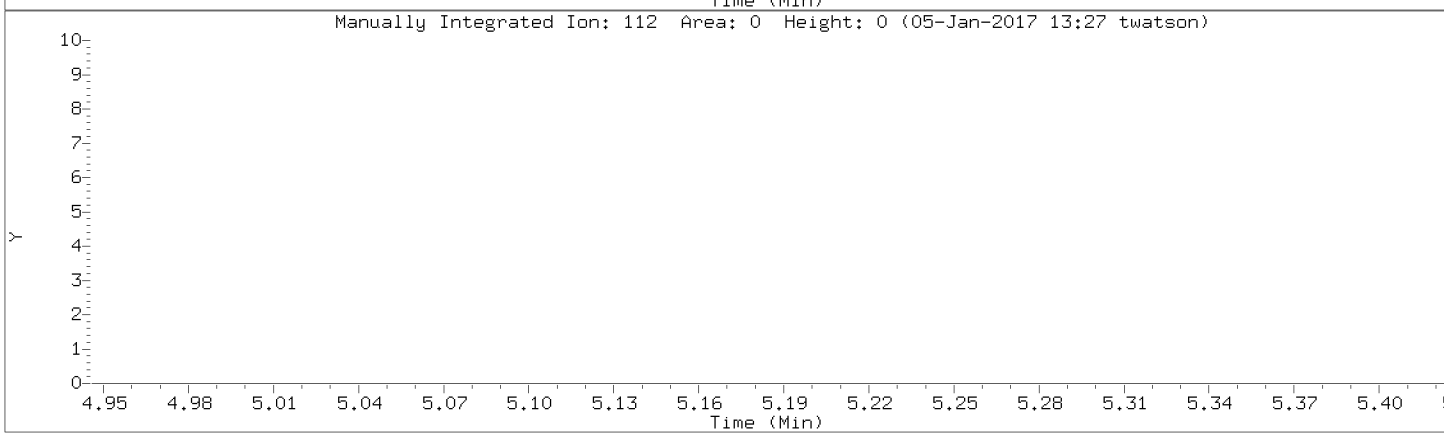
Lab Sample ID: 8260-CAL4,139199:0





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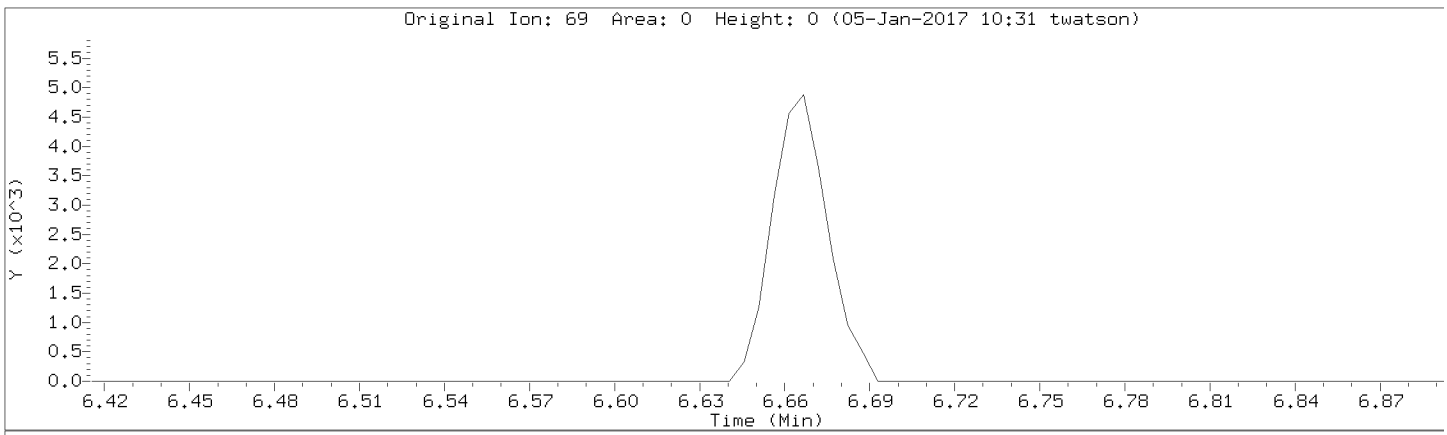
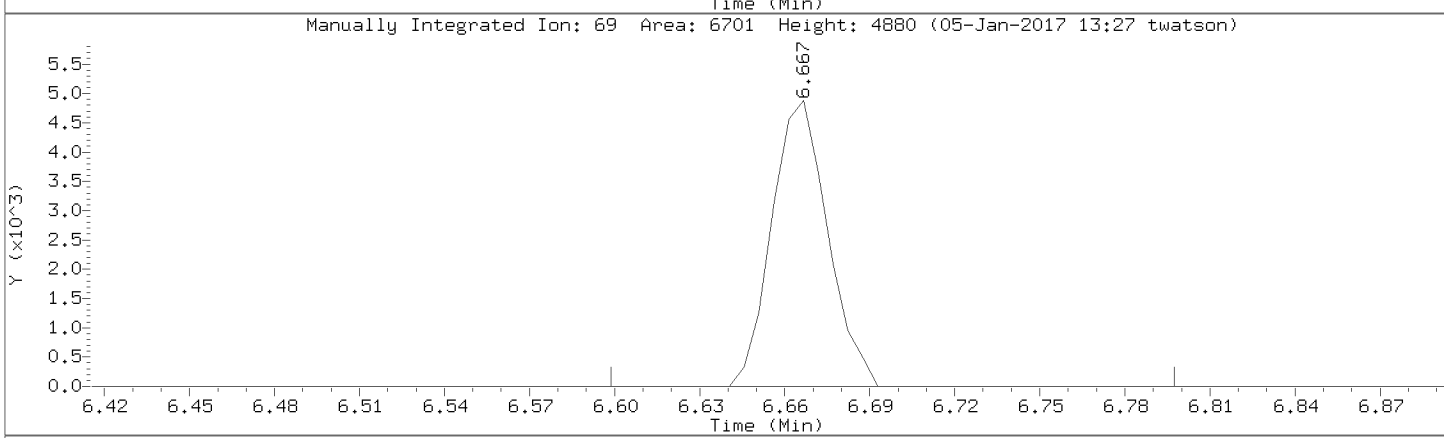
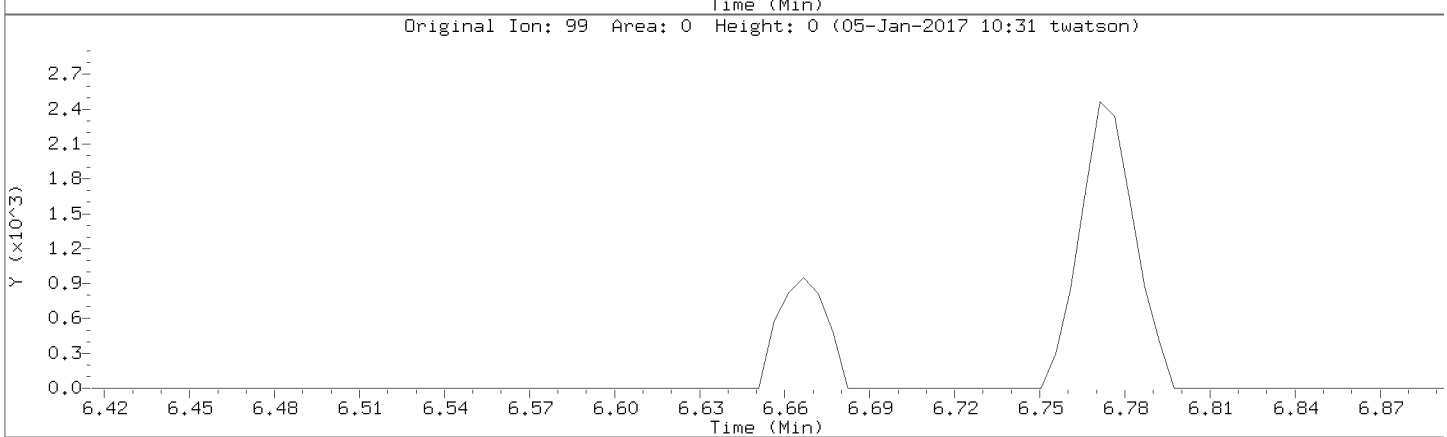
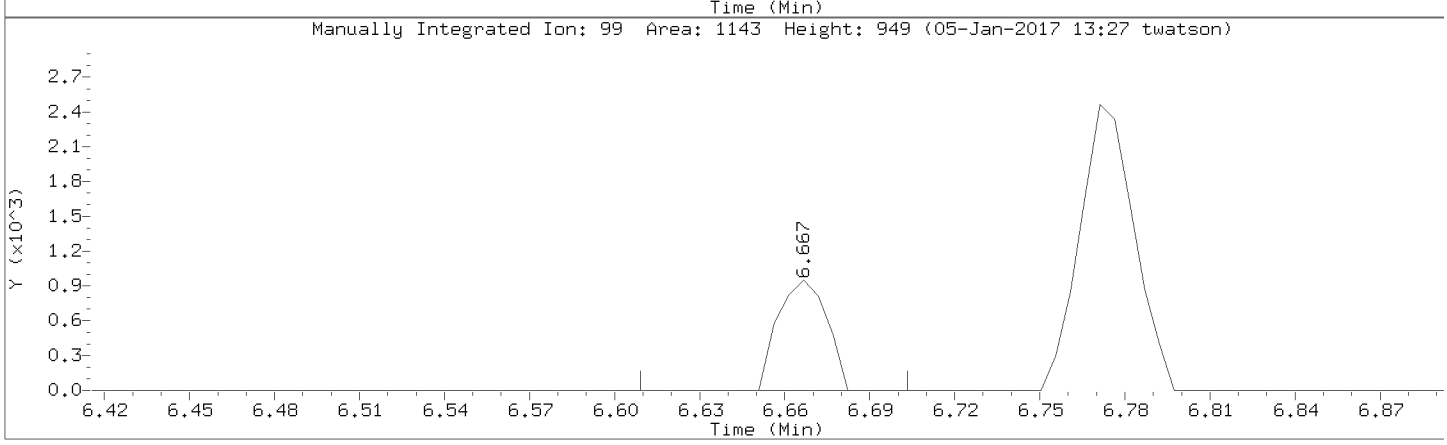
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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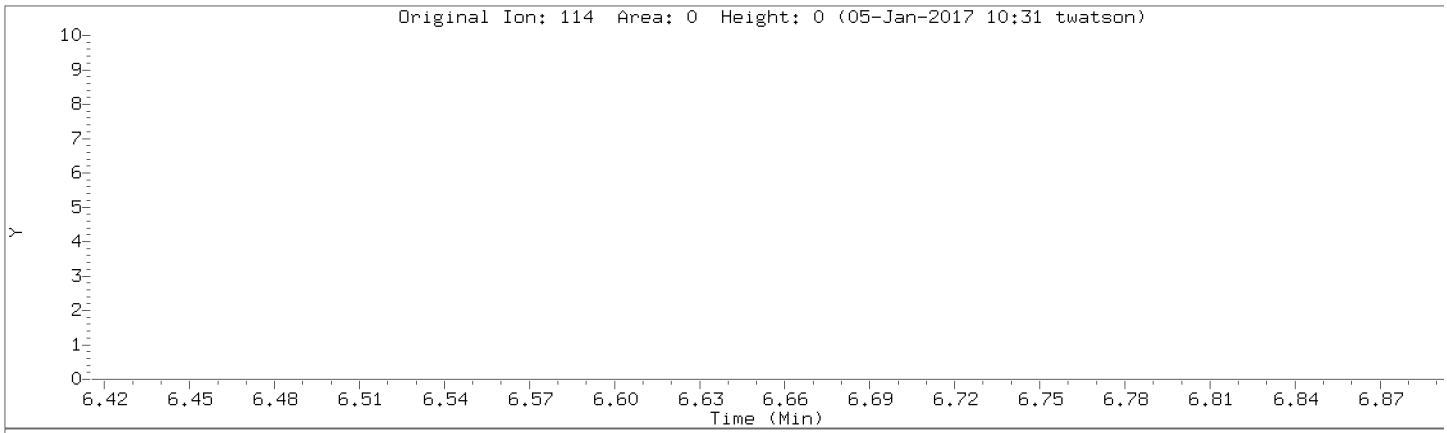
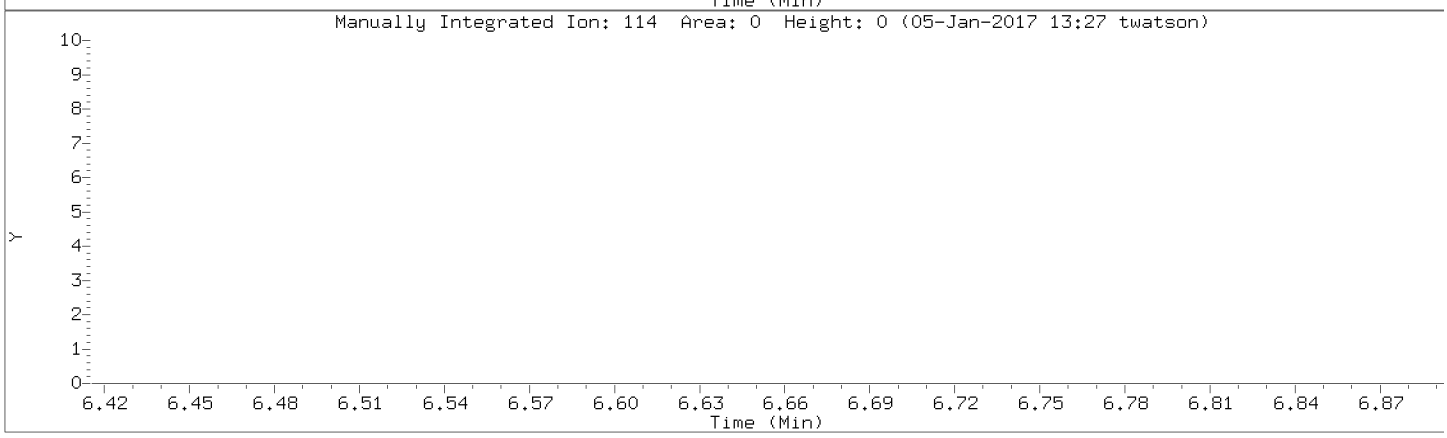
Lab Sample ID: 8260-CAL4,139199:0





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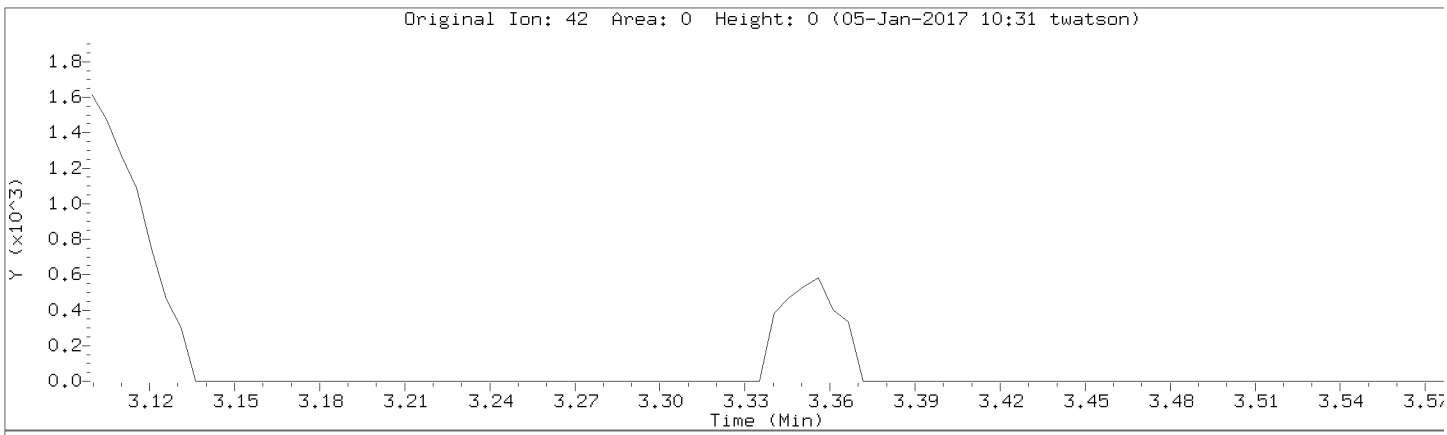
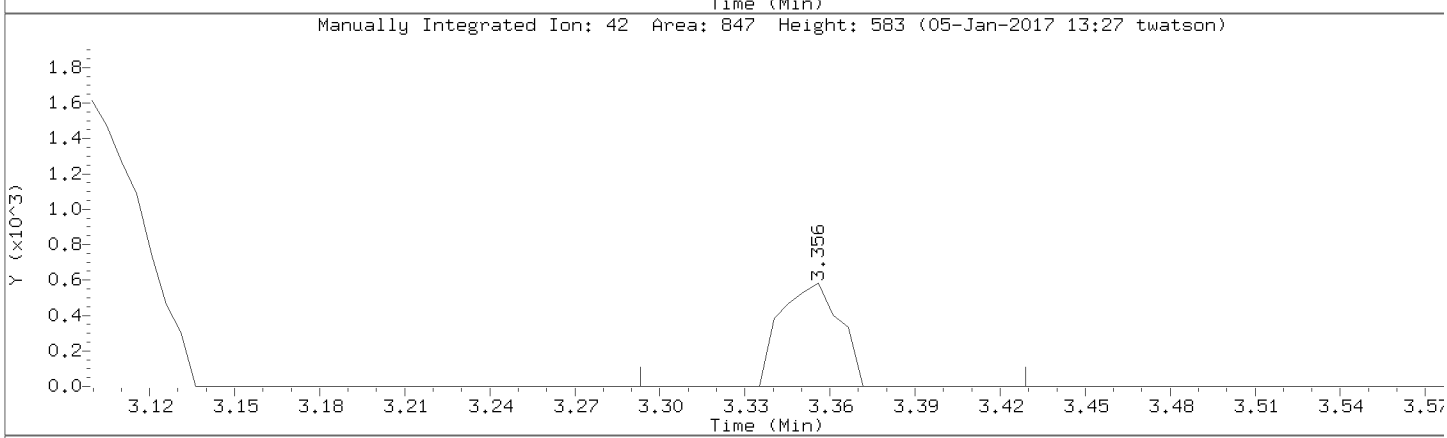
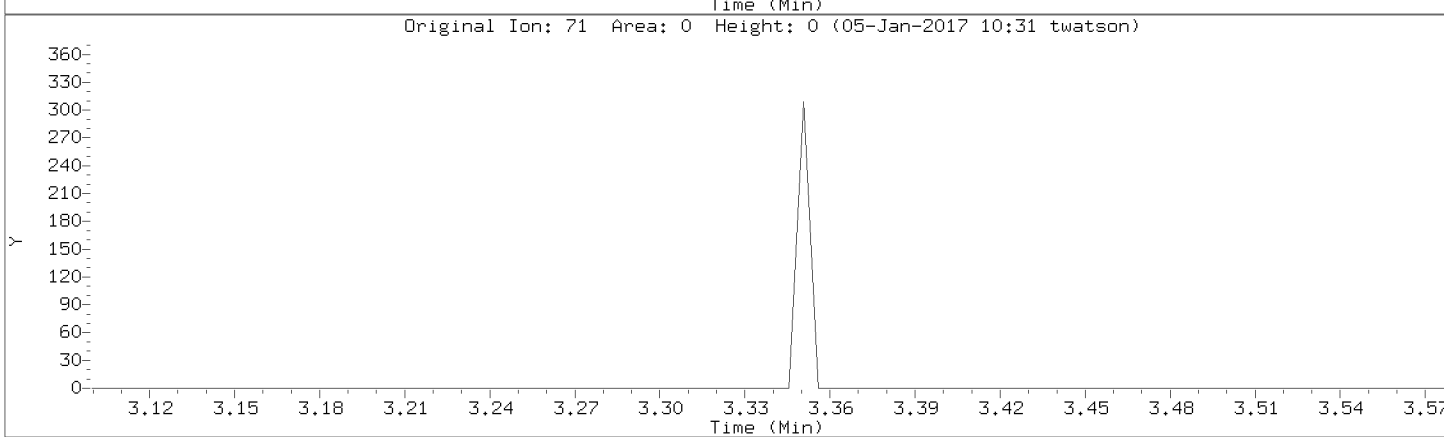
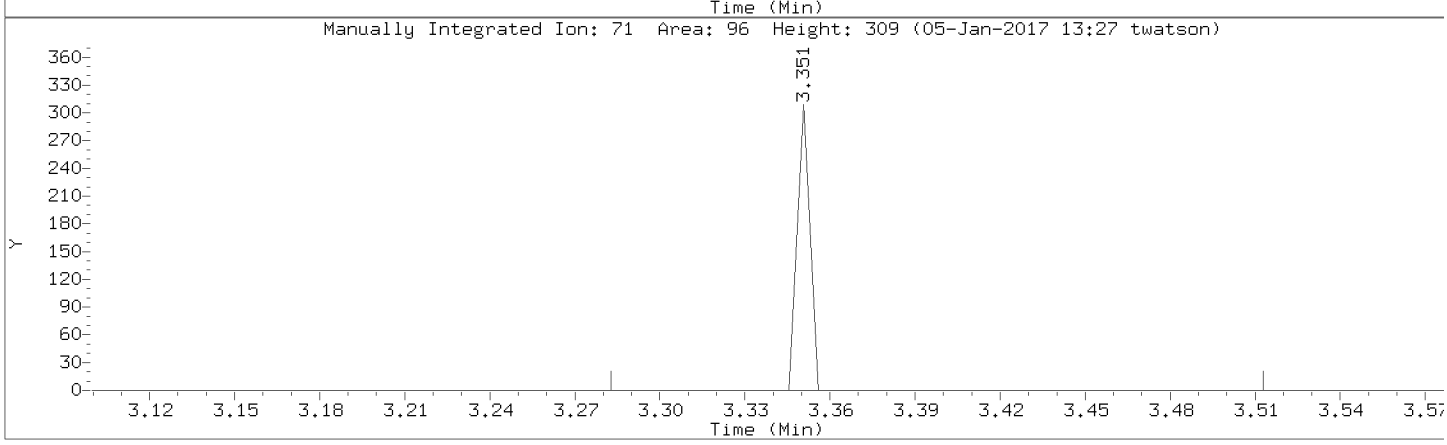
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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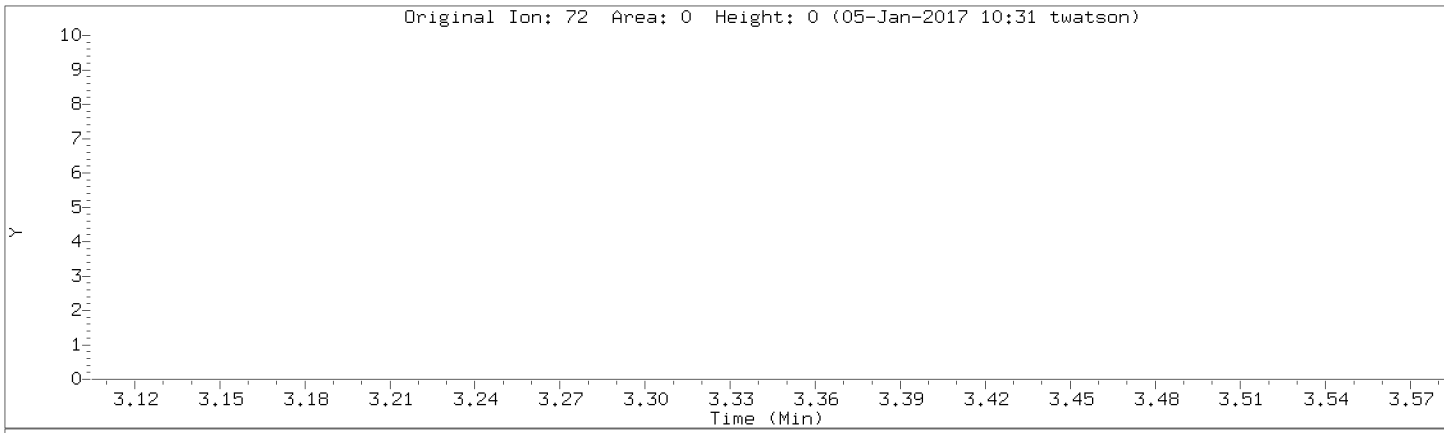
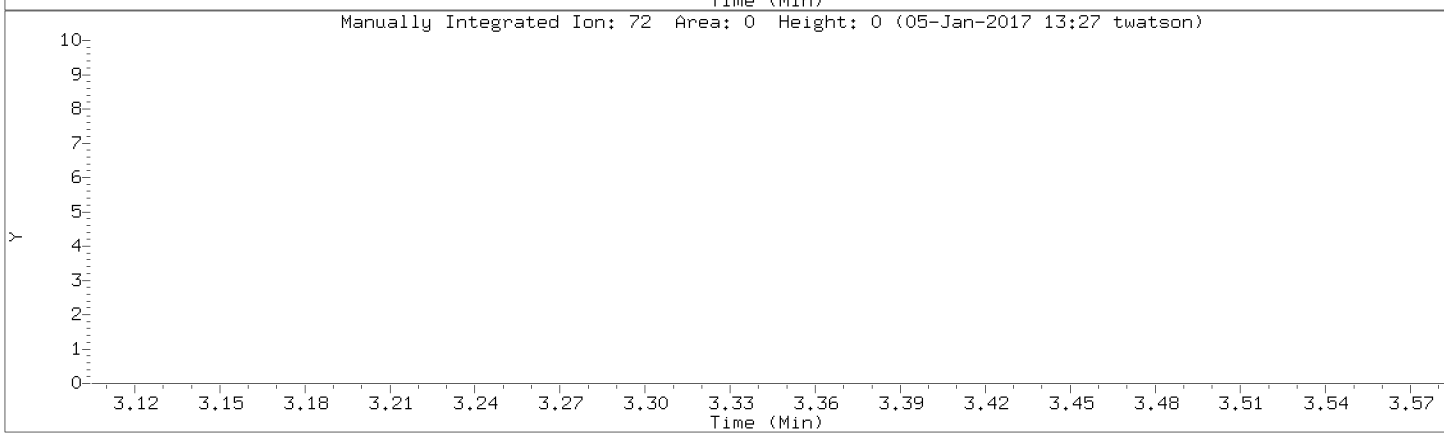
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0





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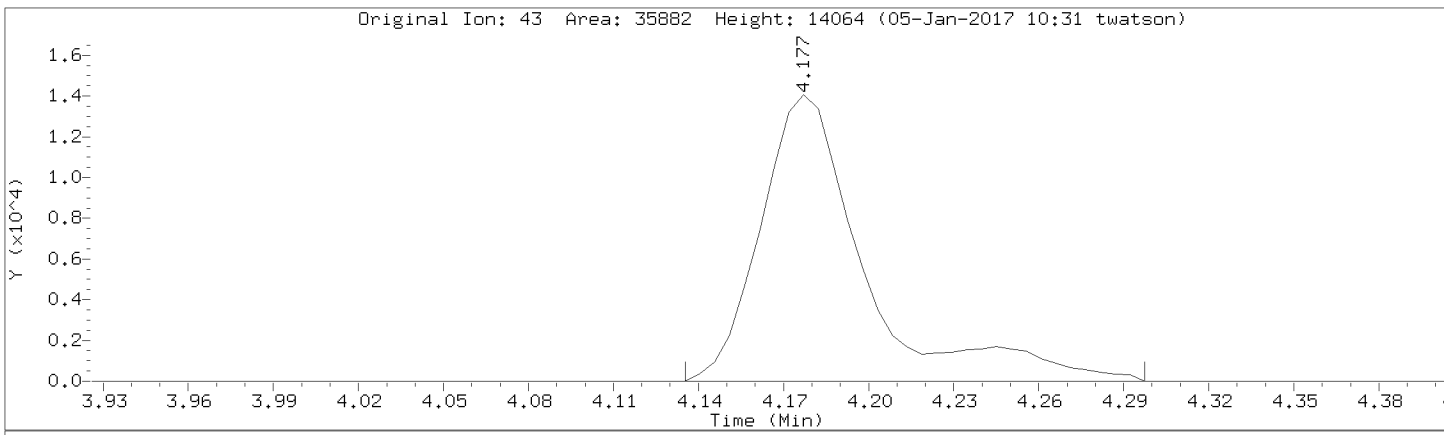
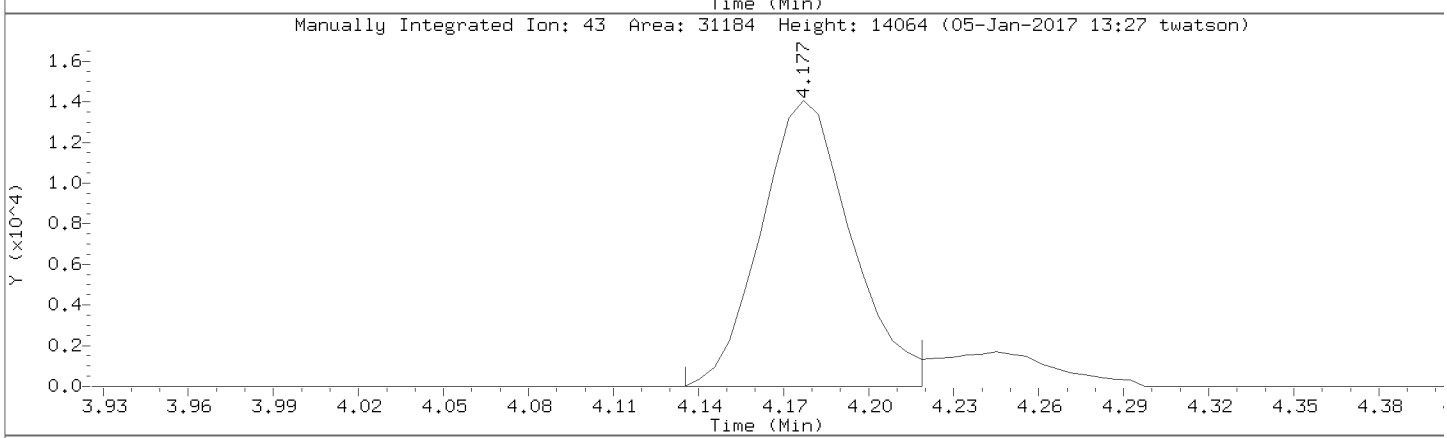
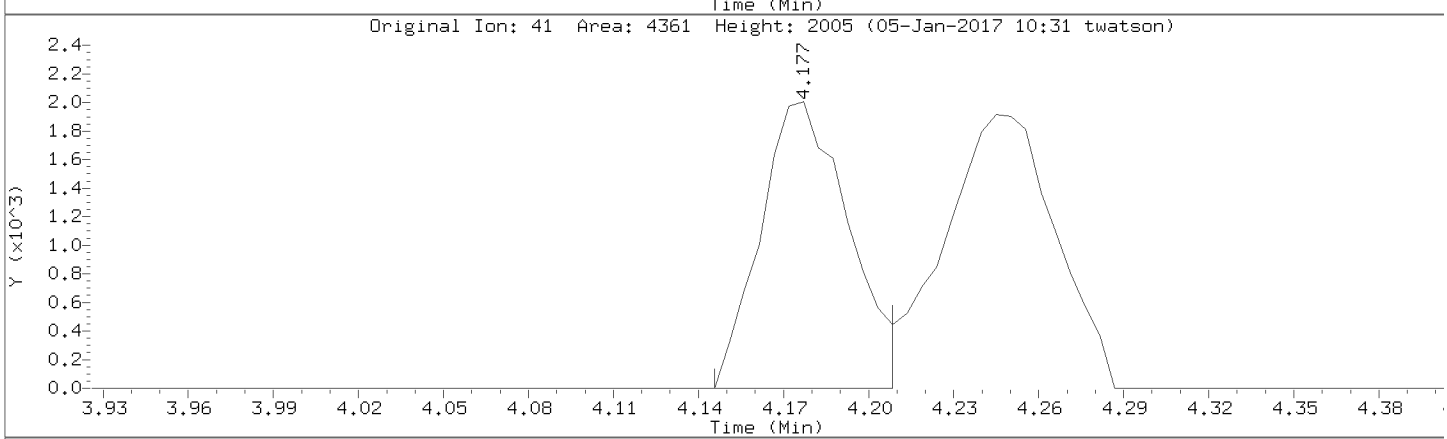
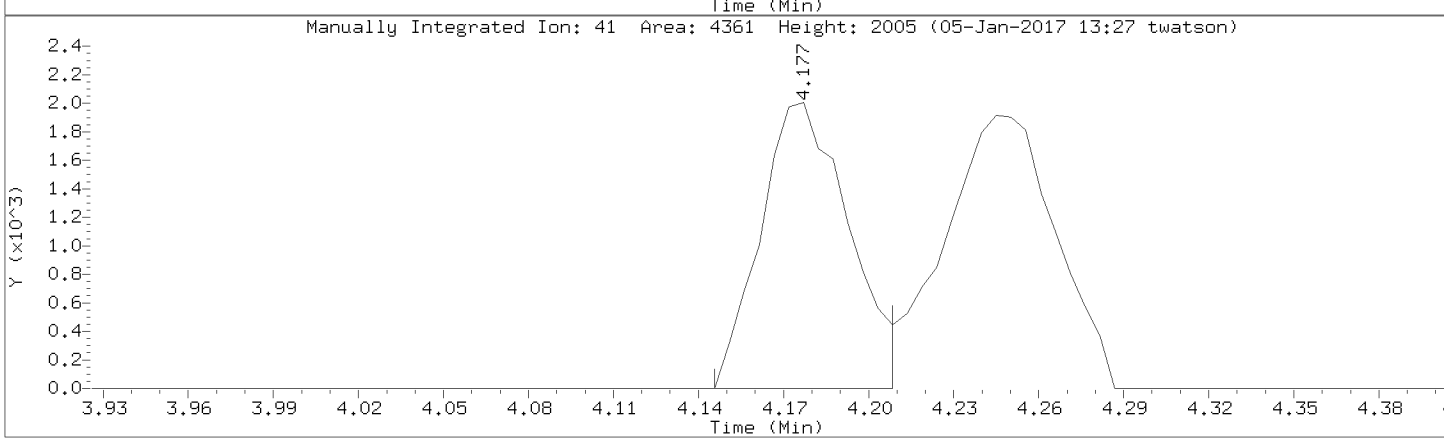
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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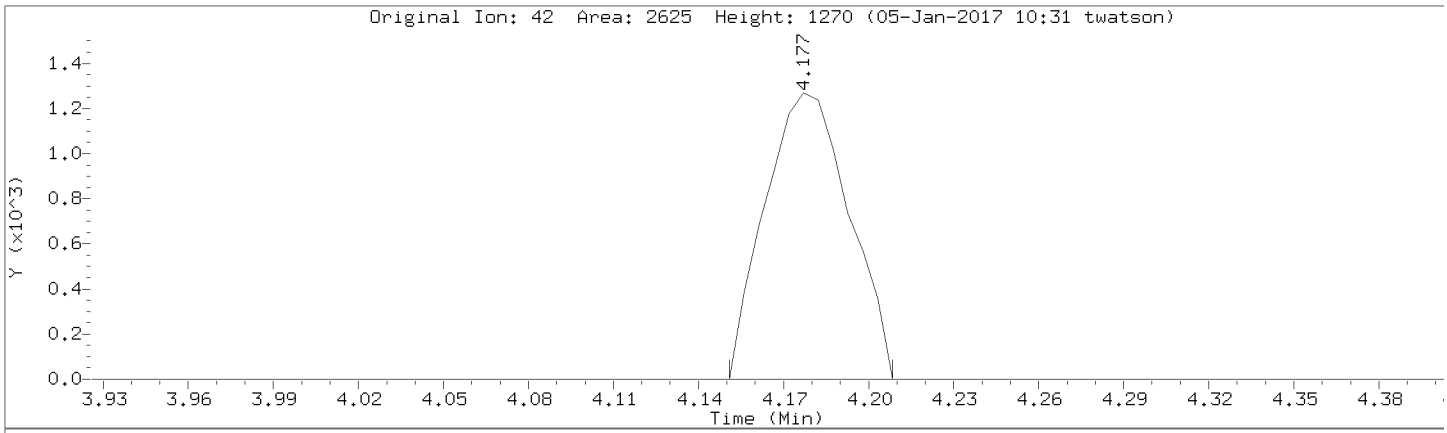
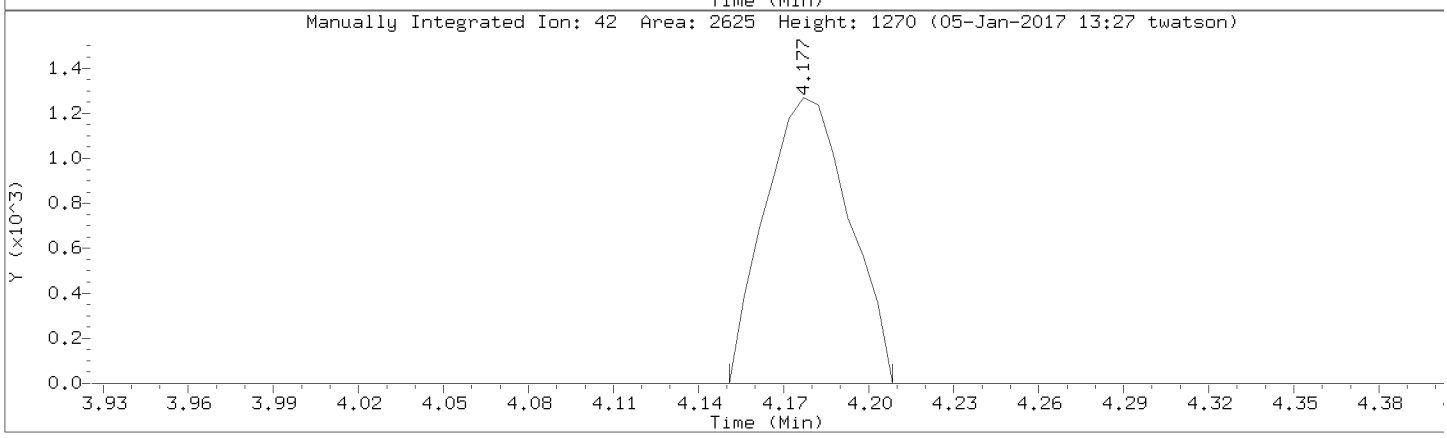
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0





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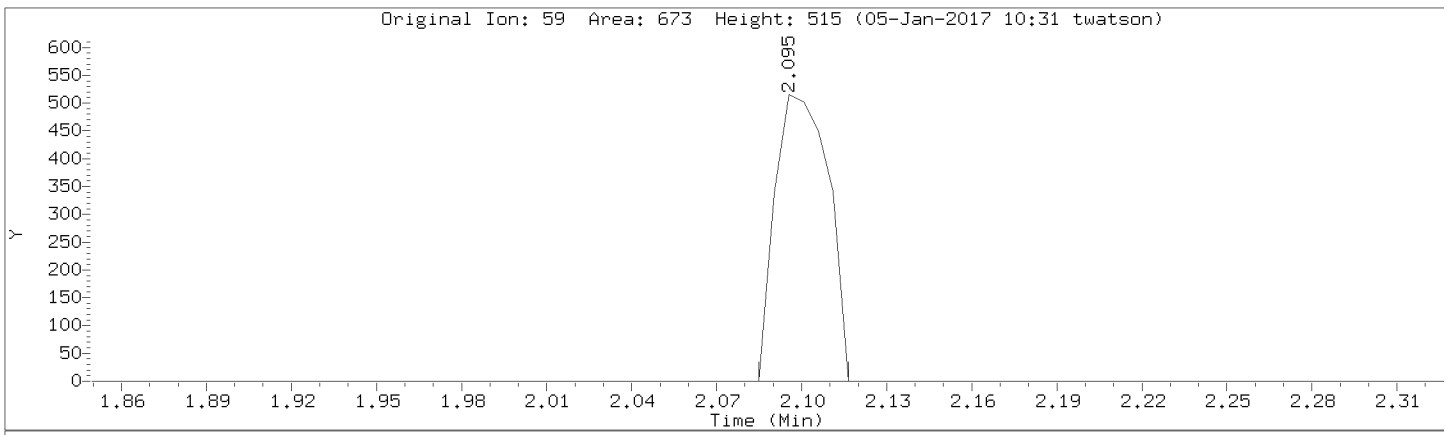
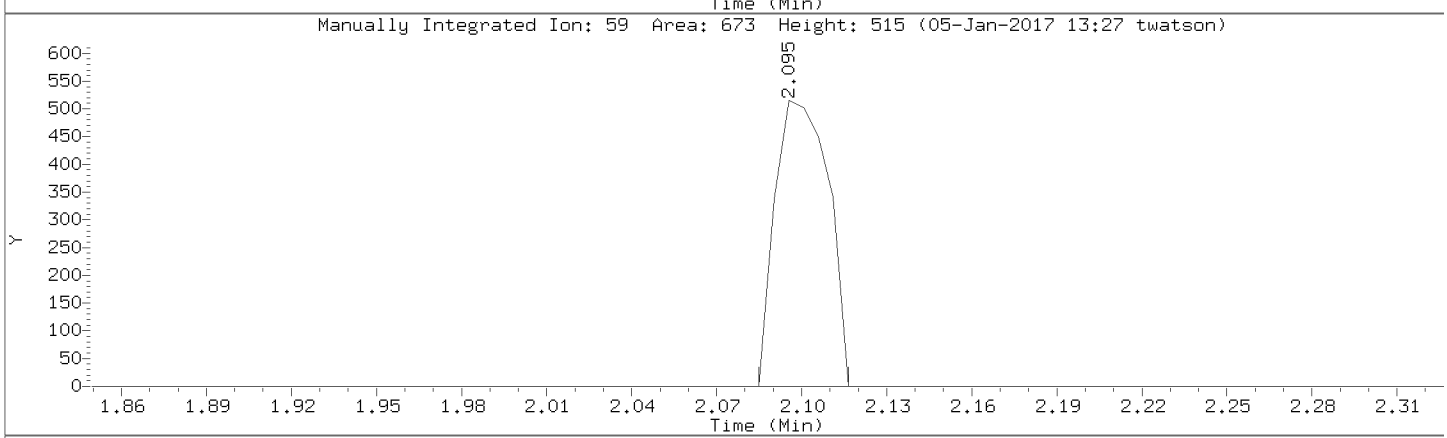
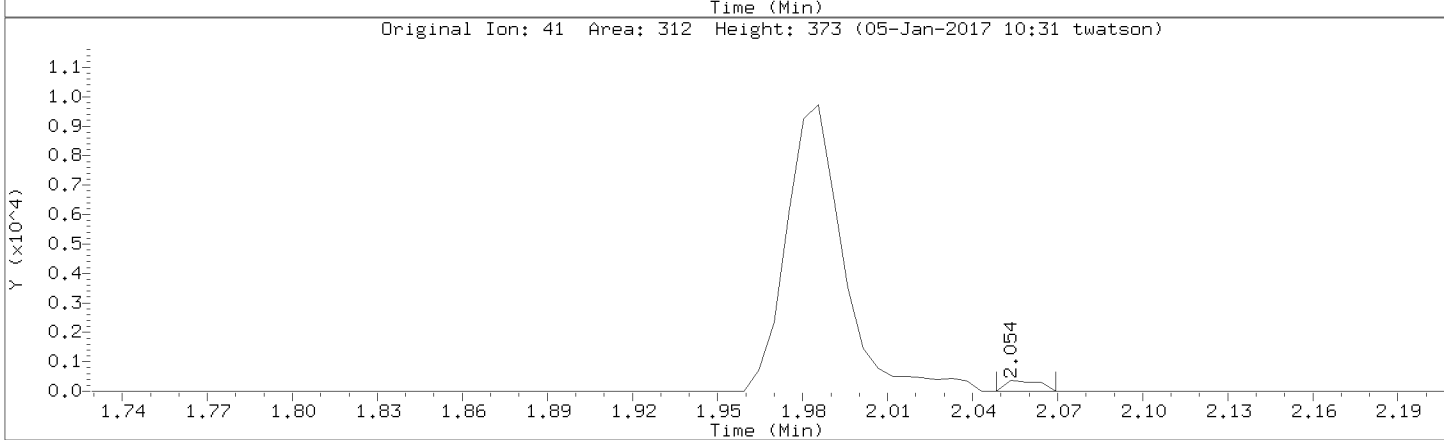
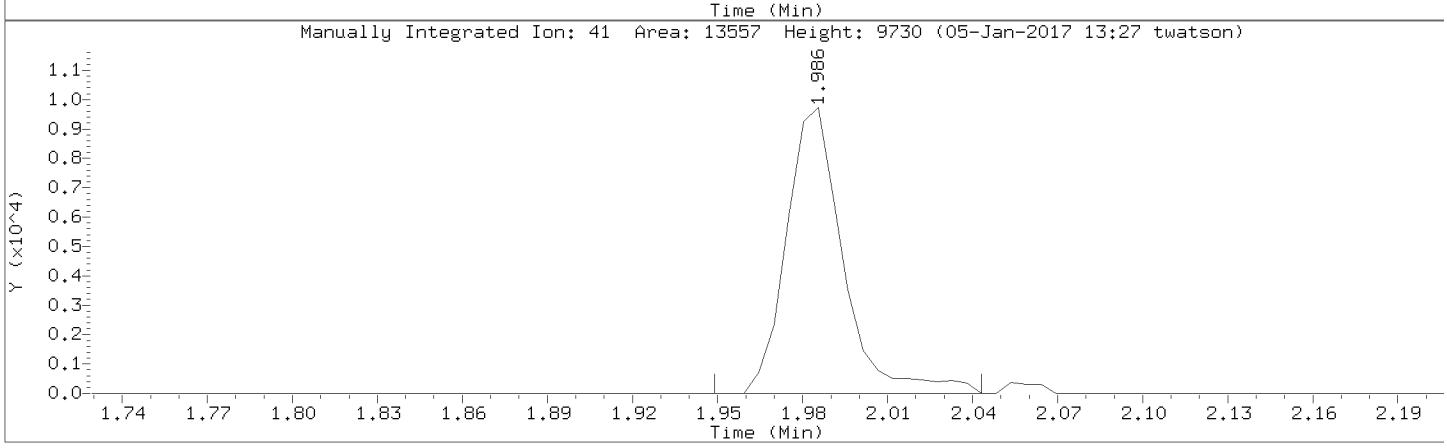
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









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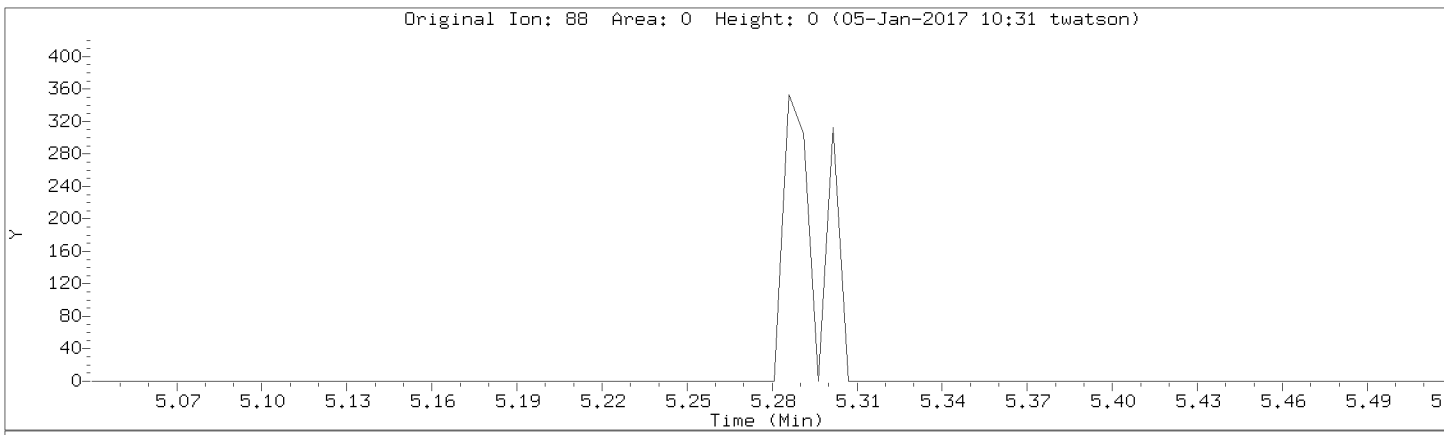
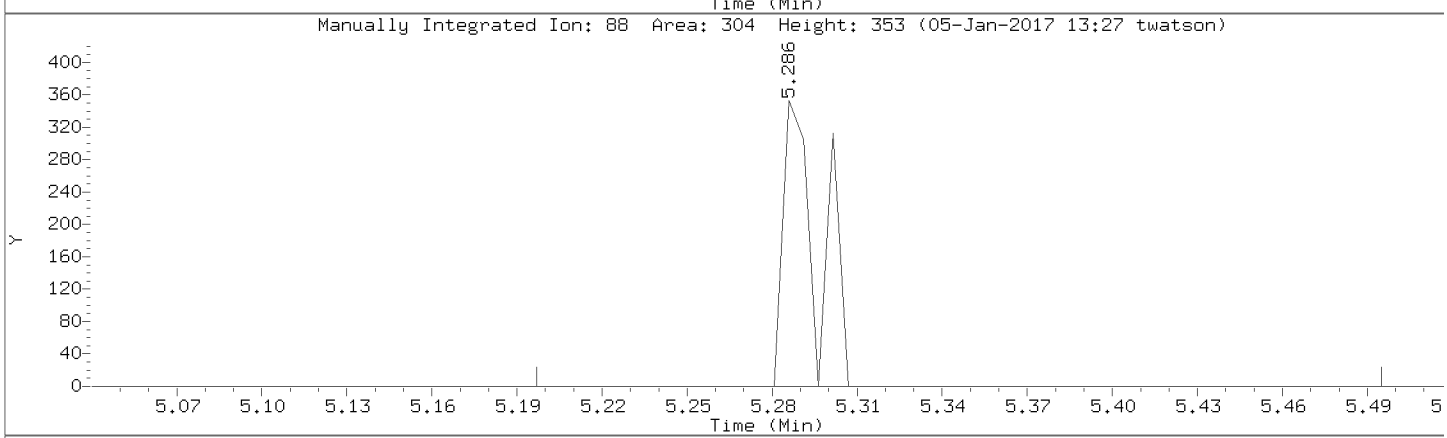
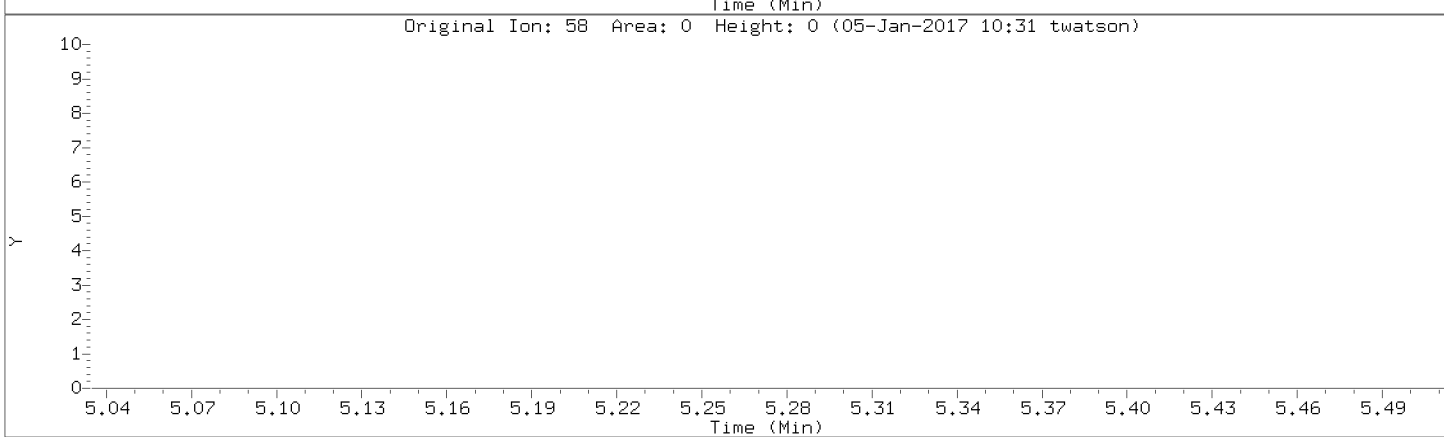
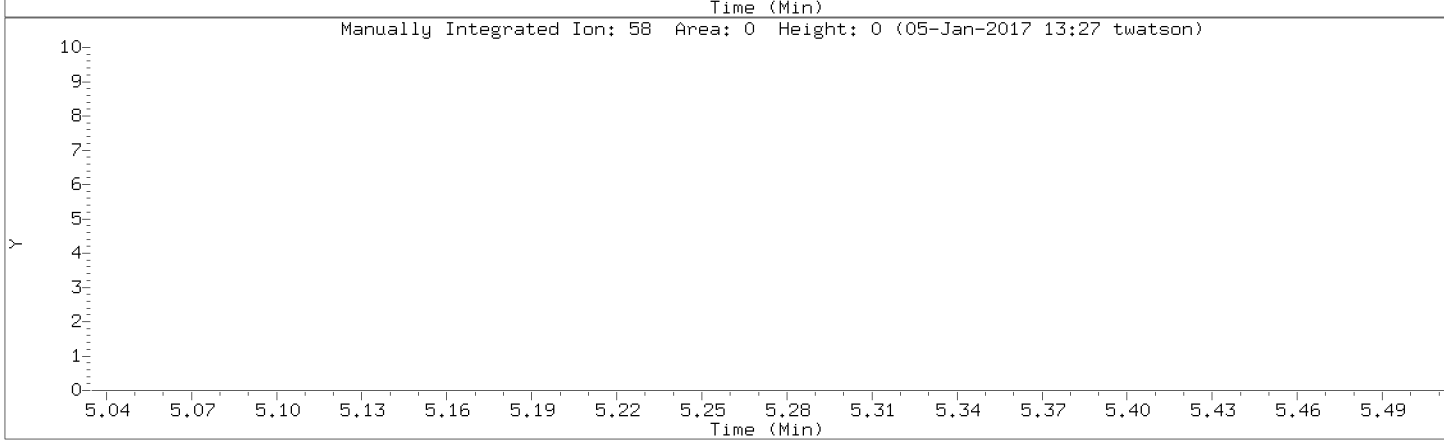
Injection Date: 04-JAN-2017 16:47
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL4,139199:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b05cal5.d
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Inj Date : 04-JAN-2017 17:24
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal5,139200:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 56 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	22682	20.0000	22.4	
2 Chloromethane	50	1.127	1.122	(0.253)	19596	20.0000	21.8	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	18940	20.0000	23.6	
4 Bromomethane	94	1.331	1.316	(0.299)	7288	20.0000	21.7	
5 Chloroethane	64	1.378	1.363	(0.309)	9472	20.0000	23.6	
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	28211	20.0000	22.8	
7 Diethyl ether	74	1.635	1.629	(0.367)	6536	20.0000	21.1	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	17855	20.0000	23.8	
9 Acrolein	56	1.713	1.708	(0.384)	24646	400.000	430	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	17271	20.0000	23.6	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	13626	20.0000	22.8	
12 Acetone	43	1.781	1.781	(0.399)	14096	100.000	105	
13 Iodomethane	142	1.870	1.860	(0.419)	35687	40.0000	38.5	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	46099	20.0000	22.3	
15 Methyl Acetate	43	1.964	1.959	(0.441)	8711	20.0000	21.6	
16 Acetonitrile	39	1.980	1.975	(0.444)	27102	20.0000	24.3	
17 allyl chloride	41	1.980	1.975	(0.444)	34352	40.0000	46.9	
18 Methylene Chloride	84	2.063	2.053	(0.463)	15337	20.0000	22.4	
19 tert-Butyl Alcohol	59	2.095	2.111	(0.470)	2204	40.0000	44.5(QM)	NI
20 Acrylonitrile	53	2.205	2.200	(0.494)	12671	80.0000	87.8	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	35817	20.0000	20.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.505)	13694	20.0000	21.4	
23 n-Hexane	57	2.445	2.435	(0.548)	19046	20.0000	22.3	
24 Vinyl Acetate	43	2.560	2.560	(0.574)	76864	80.0000	86.8	
25 1,1-Dichloroethane	63	2.576	2.571	(0.578)	23926	20.0000	22.0	
26 Chloroprene	53	2.634	2.628	(0.591)	16548	20.0000	22.7	
27 2-Butanone	43	3.057	3.063	(0.686)	17665	100.000	108	
28 1,2-Dichloroethene (cis)	96	3.083	3.083	(0.692)	15646	20.0000	22.4	
29 2,2-Dichloropropane	77	3.089	3.083	(0.693)	21304	20.0000	22.2	
30 Propionitrile	54	3.125	3.125	(0.701)	754	20.0000	13.2(Q)	
31 Methacrylonitrile	41	3.282	3.282	(0.736)	5570	20.0000	22.4	
32 Bromochloromethane	49	3.334	3.335	(0.748)	9356	20.0000	22.8	
33 Tetrahydrofuran	42	3.350	3.350	(0.751)	2517	20.0000	20.5(Q)	
34 Chloroform	83	3.455	3.450	(0.775)	27129	20.0000	22.0	
35 1,1,1-Trichloroethane	97	3.643	3.638	(0.817)	24862	20.0000	22.8	
$ 36 Dibromofluoromethane (S)	113	3.643	3.638	(0.817)	47049	50.0000	50.8	
37 Cyclohexane	56	3.737	3.727	(0.838)	20075	20.0000	23.9	
38 n-butyl chloride	56	3.800	3.795	(0.852)	23445	20.0000	22.4	
39 Carbon Tetrachloride	117	3.842	3.837	(0.862)	23463	20.0000	23.0	
40 1,1-Dichloropropene	75	3.847	3.842	(0.863)	20606	20.0000	23.0	
41 Benzene	78	4.088	4.082	(0.917)	56913	20.0000	21.5	
42 1,2-Dichloroethane	62	4.166	4.166	(0.934)	17748	20.0000	21.8	
43 Isobutyl alcohol	43	4.176	4.187	(0.937)	73736	20.0000	21.4(M)	GT
44 2,2,4-Trimethylpentane	57	4.244	4.245	(0.952)	45992	20.0000	23.1	
* 45 Fluorobenzene (IS)	96	4.459	4.459	(1.000)	151613	50.0000		
46 Trichloroethene	95	4.898	4.893	(1.099)	16090	20.0000	23.0	
47 Methylcyclohexane	55	5.155	5.155	(1.156)	16604	20.0000	22.4	
48 1,2-Dichloropropane	63	5.191	5.197	(1.164)	13259	20.0000	22.1(M)	NI
49 Dibromomethane	93	5.291	5.291	(1.186)	9373	20.0000	21.1	
50 Methyl methacrylate	69	5.285	5.291	(1.185)	7566	20.0000	21.0	
51 1,4-Dioxane	88	5.285	5.291	(1.185)	2029	400.000	442	
52 Bromodichloromethane	83	5.505	5.505	(1.235)	20565	20.0000	21.7	
53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	14179	40.0000	43.2	
54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	23658	20.0000	21.8	
55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	51284	100.000	113	
$ 56 Toluene-d8 (S)	98	6.258	6.263	(0.831)	159744	50.0000	49.8	
57 Toluene	91	6.331	6.337	(0.841)	63586	20.0000	21.2	
58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	20717	20.0000	21.5	
59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	15459	20.0000	21.2	
60 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	10501	20.0000	21.7	
61 Tetrachloroethene	166	6.828	6.828	(0.907)	19707	20.0000	21.9	
62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	19852	20.0000	21.0	
63 2-Hexanone	43	6.959	6.964	(0.924)	37866	100.000	116	
64 Dibromochloromethane	129	7.090	7.090	(0.942)	18553	20.0000	21.5	
65 1,2-Dibromoethane	107	7.173	7.174	(0.953)	14135	20.0000	21.5	
* 66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	125616	50.0000		
67 Chlorobenzene	112	7.550	7.555	(1.003)	48362	20.0000	21.9	
68 1,1,1,2-Tetrachloroethane	131	7.623	7.629	(1.013)	17495	20.0000	22.0	
69 Ethylbenzene	106	7.628	7.634	(1.013)	25100	20.0000	21.1	
70 m&p-Xylene	106	7.723	7.728	(1.026)	61632	40.0000	42.0	
71 o-Xylene	106	7.984	7.984	(1.060)	29832	20.0000	20.7	
72 Styrene	104	8.000	8.000	(1.063)	53003	20.0000	22.1	
73 Bromoform	173	8.125	8.125	(0.901)	13681	20.0000	22.1	
74 Isopropylbenzene	105	8.225	8.225	(1.092)	82626	20.0000	21.5	
$ 75 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.107)	59735	50.0000	50.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
76 Bromobenzene	77	8.418	8.418	(1.118)	28748	20.0000	21.2	
77 1,1,2,2-Tetrachloroethane	83	8.423	8.429	(0.934)	20190	20.0000	23.6	
78 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.121)	3844	20.0000	23.5(Q)	
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	5628	20.0000	23.4(Q)	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	95482	20.0000	22.0	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	54207	20.0000	21.6	
82 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.952)	69172	20.0000	21.3	
83 4-Chlorotoluene	126	8.606	8.612	(0.955)	21817	20.0000	21.0	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	62384	20.0000	21.5	
85 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.976)	73566	20.0000	21.8	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	96289	20.0000	21.2	
87 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	44274	20.0000	21.9	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	82450	20.0000	22.1	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.014	9.015	(1.000)	77578	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	46341	20.0000	22.0	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	72819	20.0000	21.9	
92 1,2-Dichlorobenzene	146	9.218	9.219	(1.023)	43388	20.0000	22.0	
93 1,2-Dibromo-3-chloropropane	155	9.626	9.627	(1.068)	4097	20.0000	24.6	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	33280	20.0000	22.4	
95 Hexachlorobutadiene	225	10.108	10.113	(1.121)	18675	20.0000	21.3	
96 Naphthalene	128	10.191	10.191	(1.131)	74926	20.0000	22.1	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	31311	20.0000	22.5	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	36698	20.0000	22.5	
99 1-Methylnaphthalene	142	10.971	10.976	(1.217)	33972	20.0000	22.9	
148 Ethyl Acetate	88	3.104	3.110	(0.696)	3355	160.000	165(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

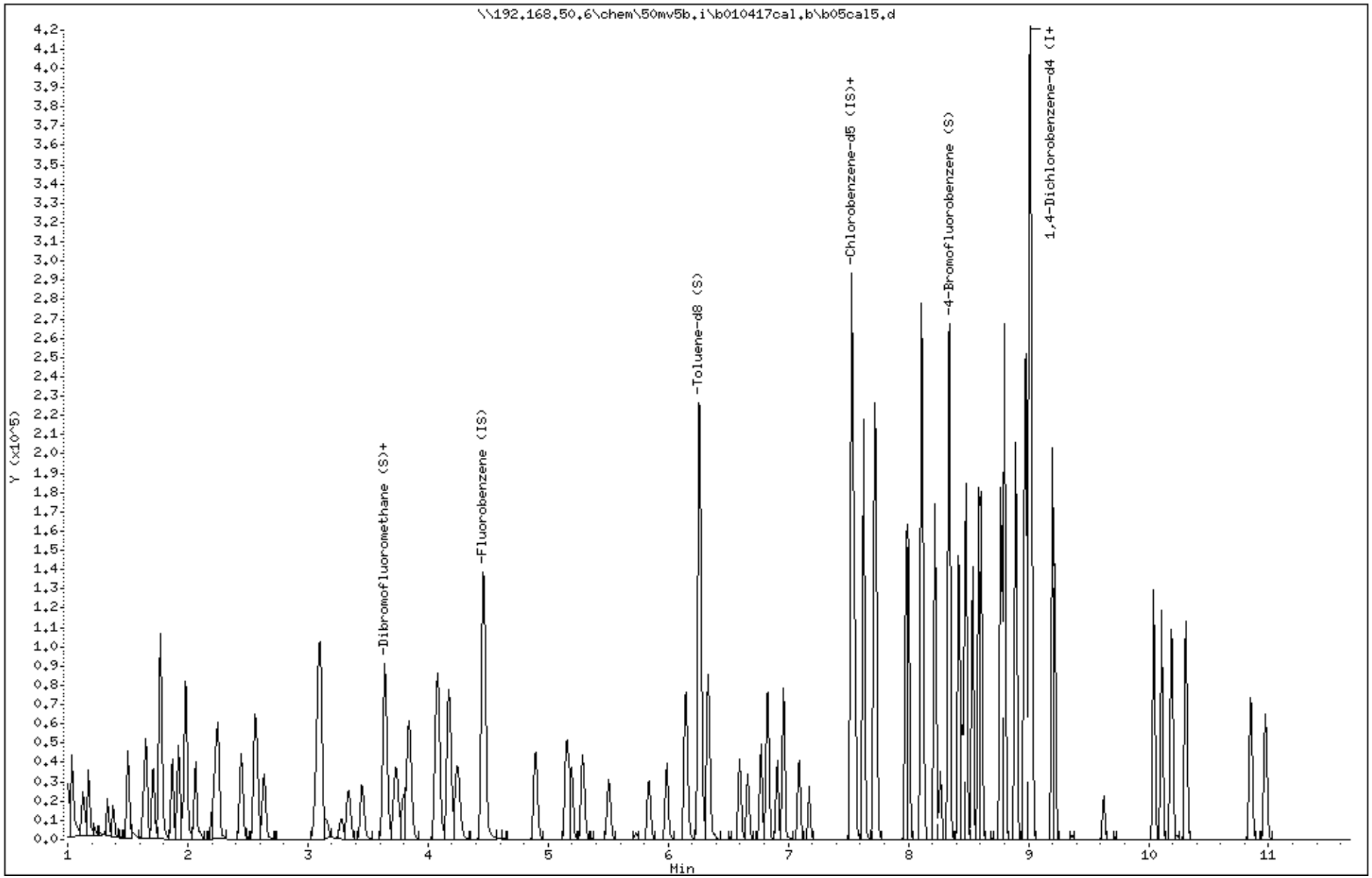
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b05cal5.d
Date : 04-JAN-2017 17:24
Client ID: 8260-CAL5,139200:0
Sample Info: 8260-CAL5,139200:0

Column phase: DB-624

Instrument: 50mv5b.i

Operator: TMW

Column diameter: 0.18



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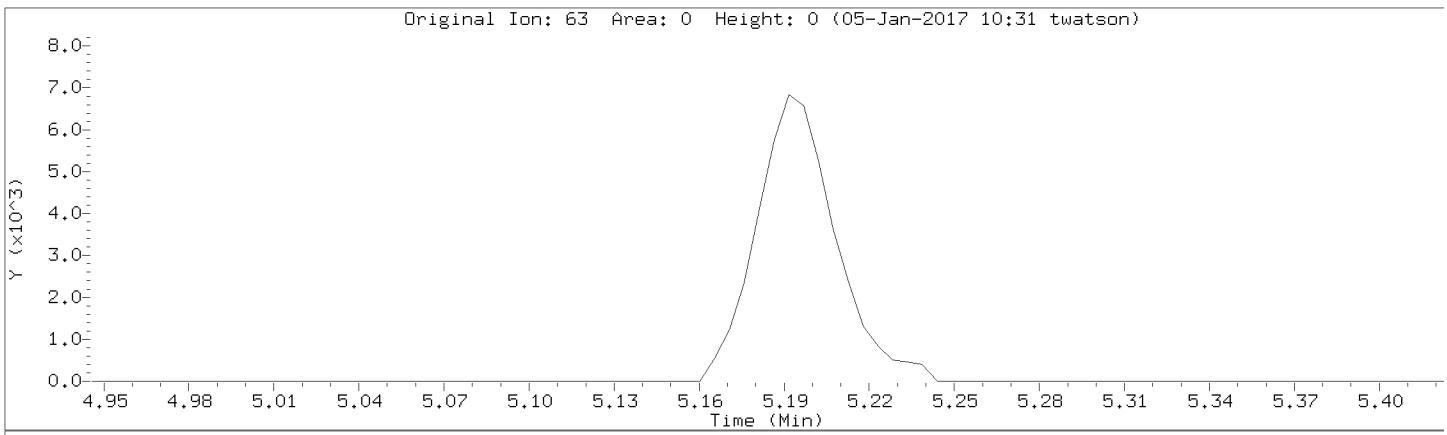
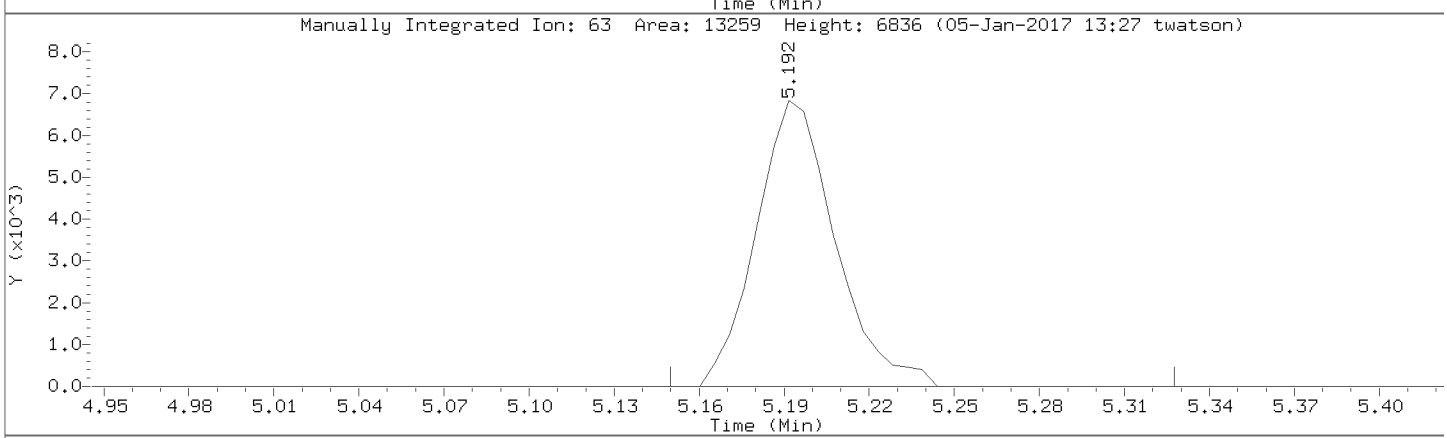
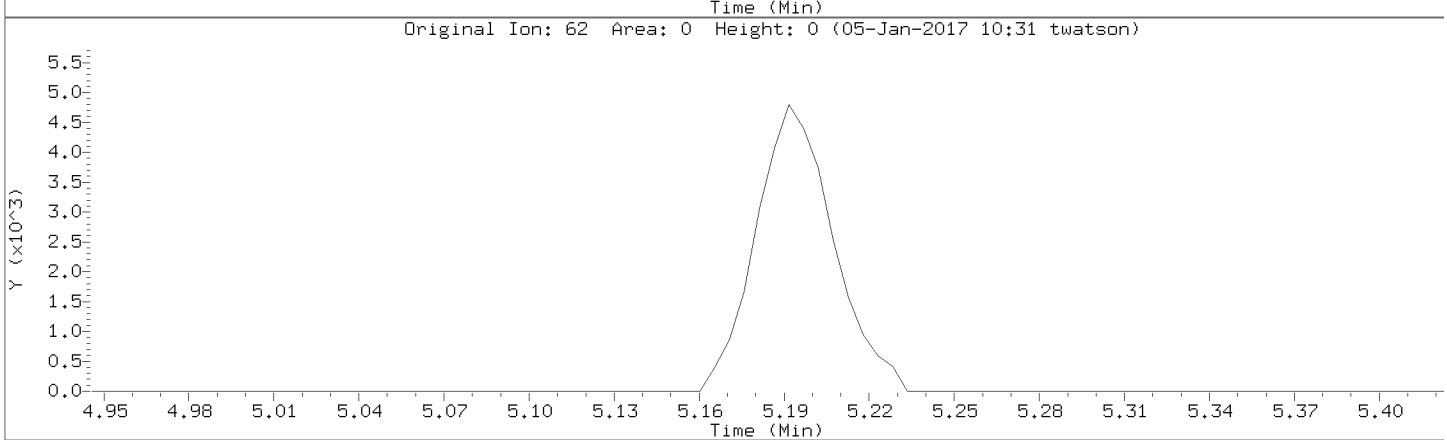
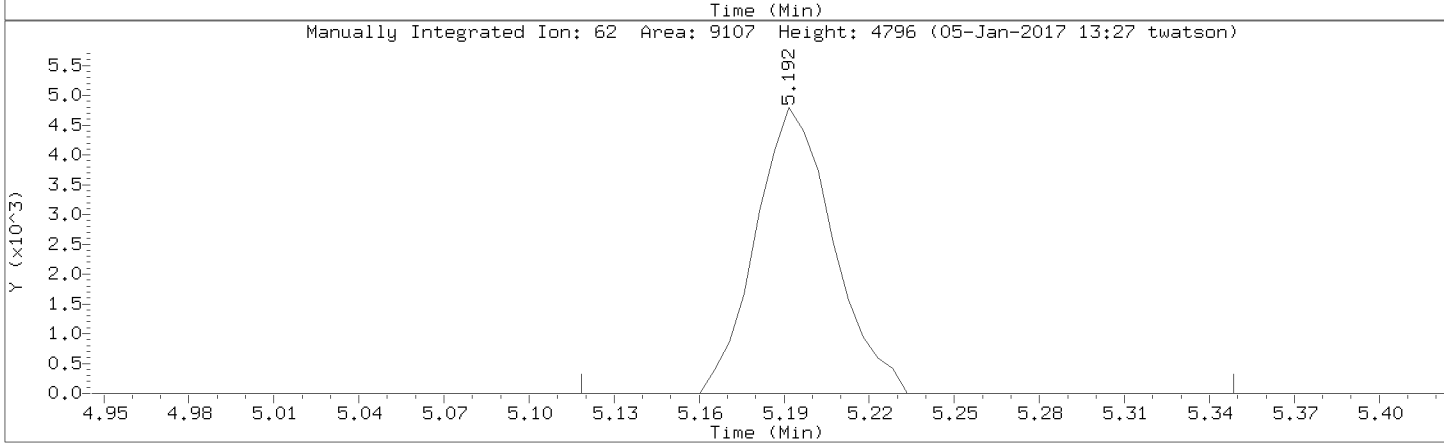
Injection Date: 04-JAN-2017 17:24
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL5,139200:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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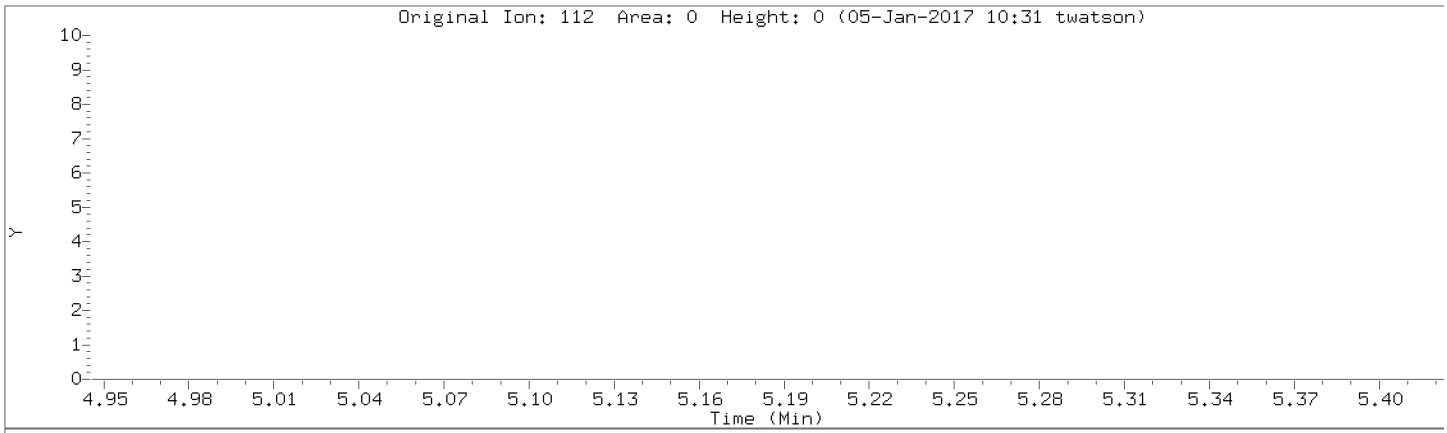
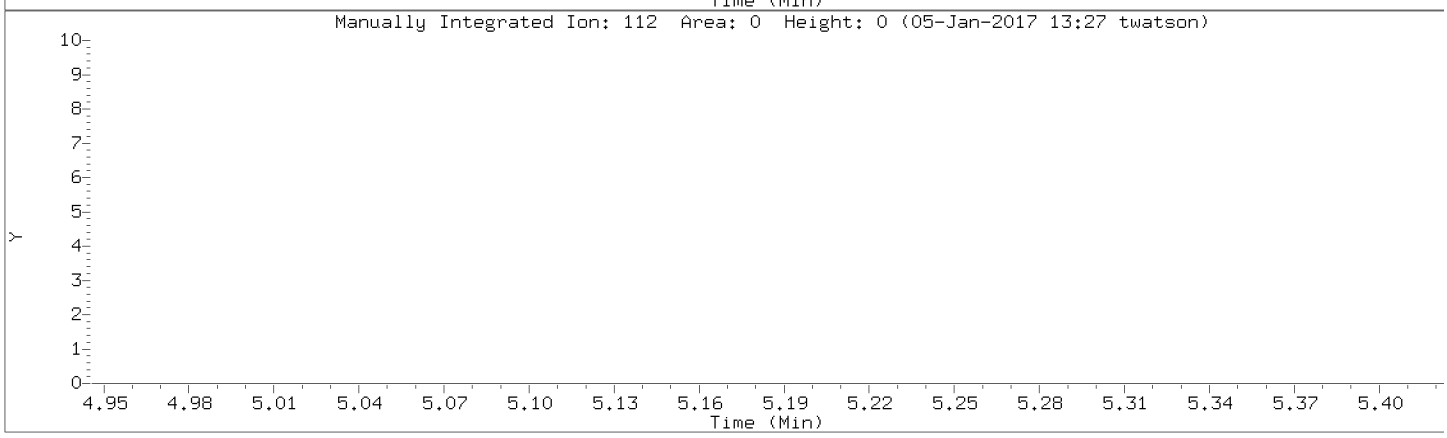
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL5,139200:0





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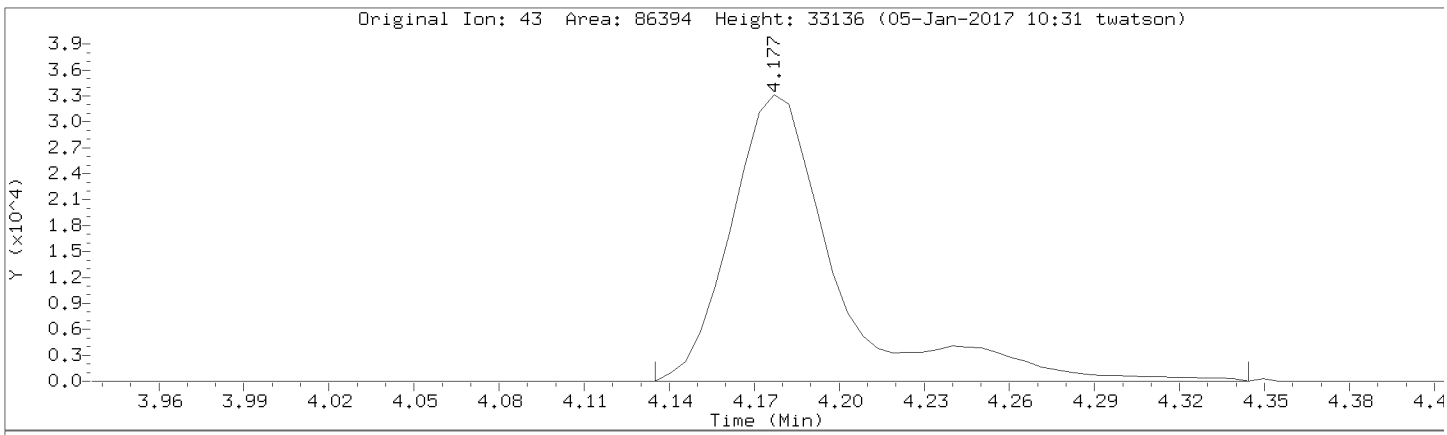
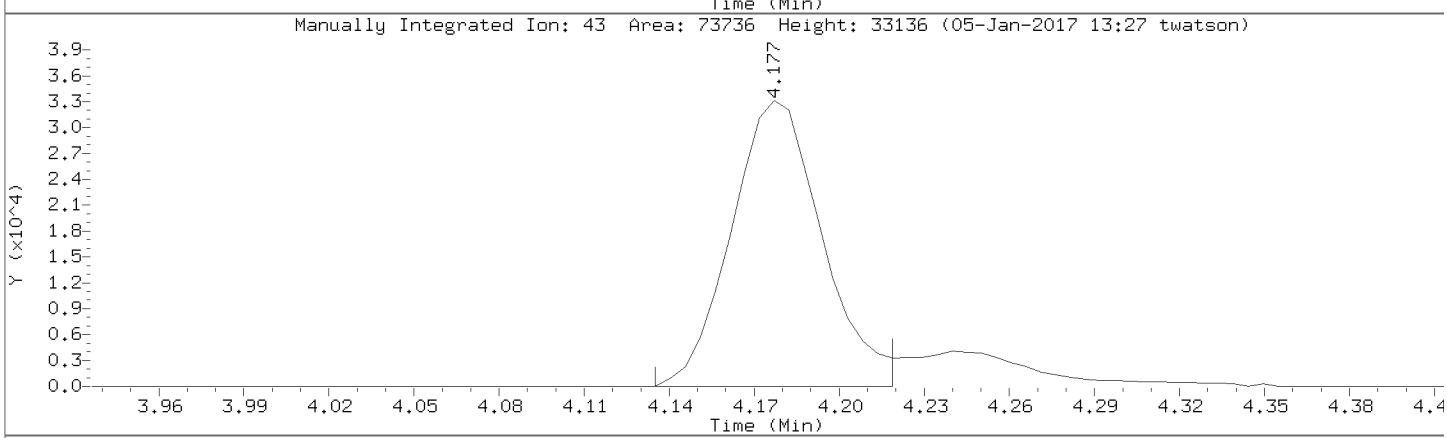
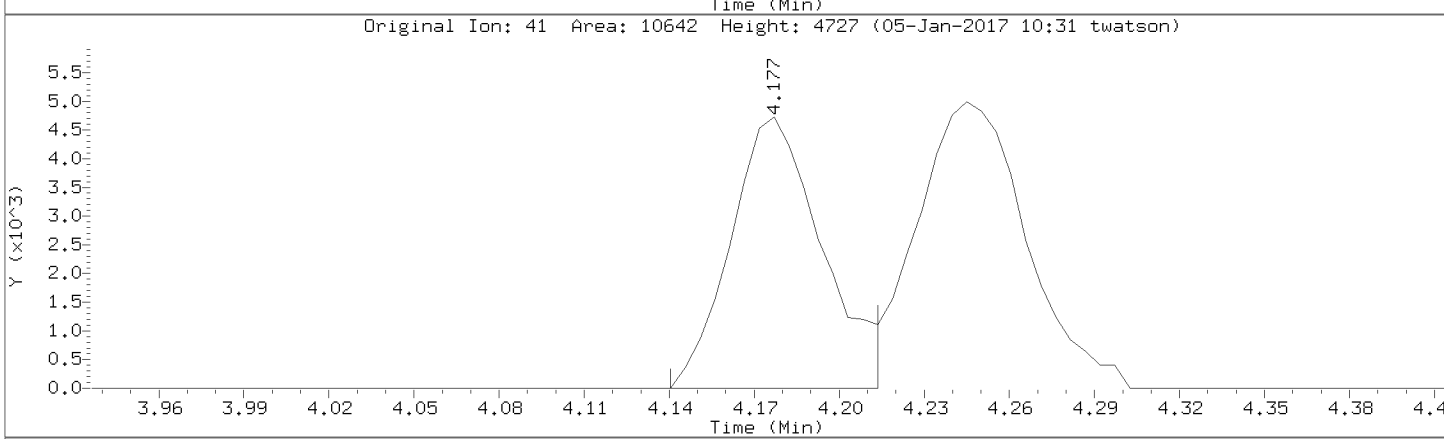
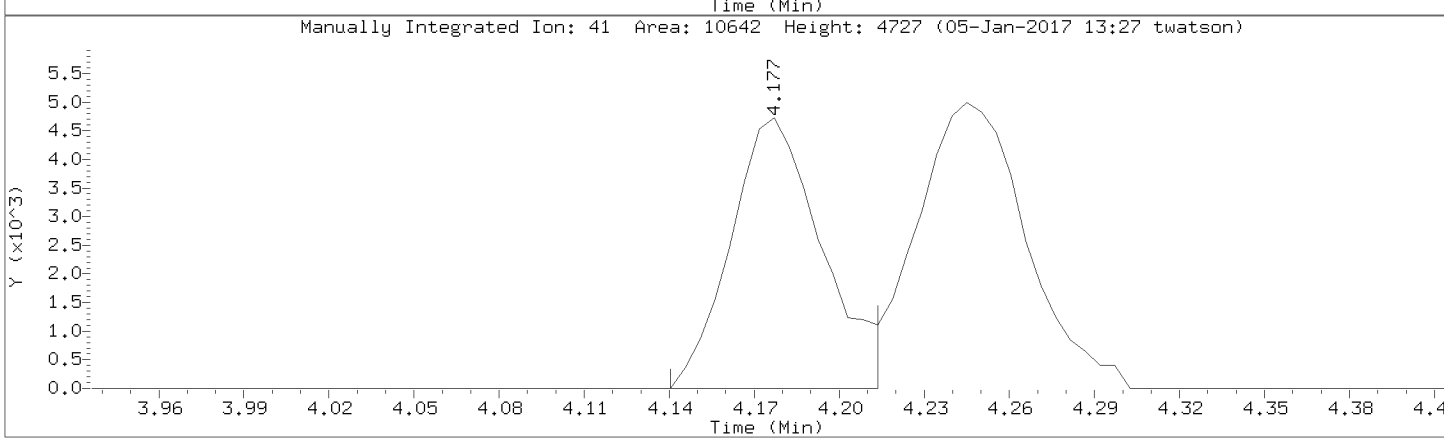
Injection Date: 04-JAN-2017 17:24
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL5,139200:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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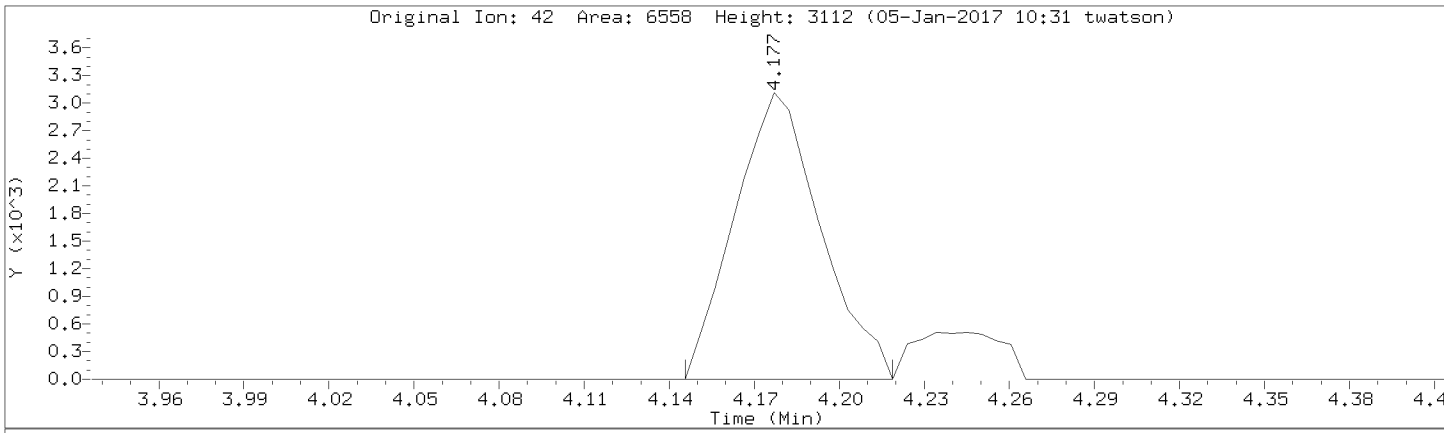
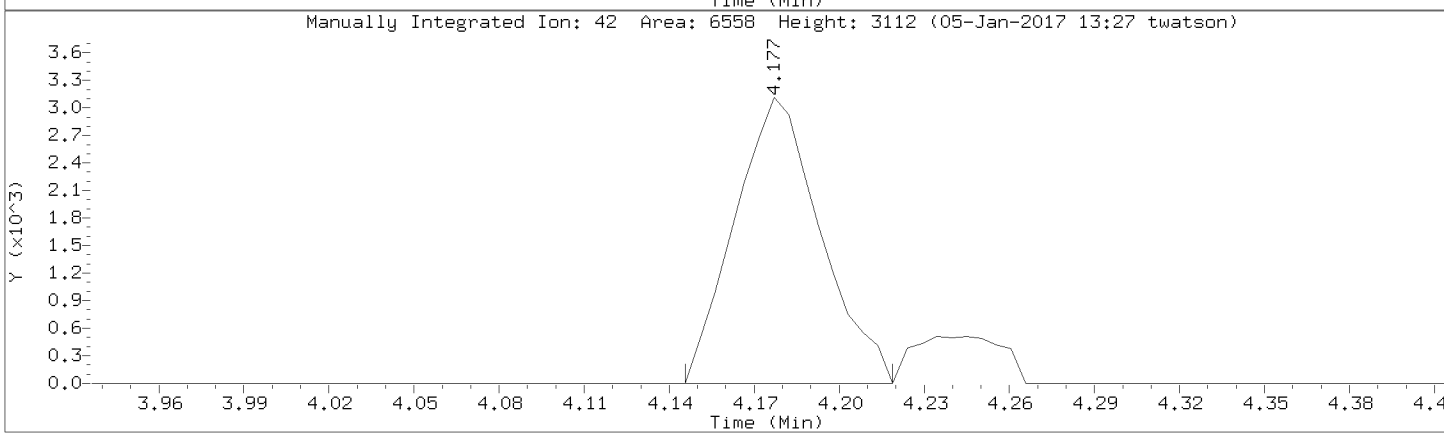
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL5,139200:0





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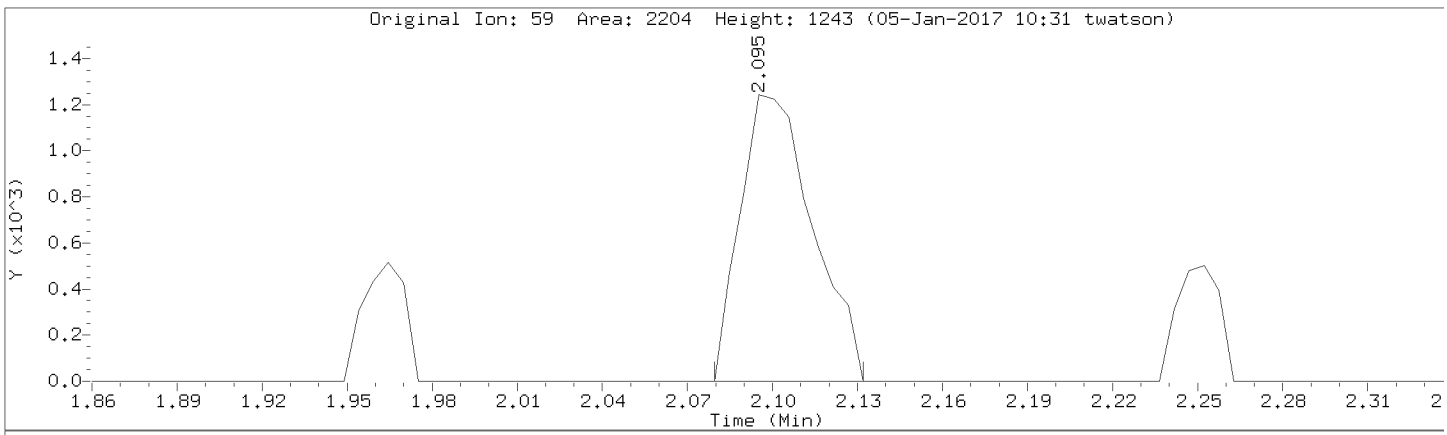
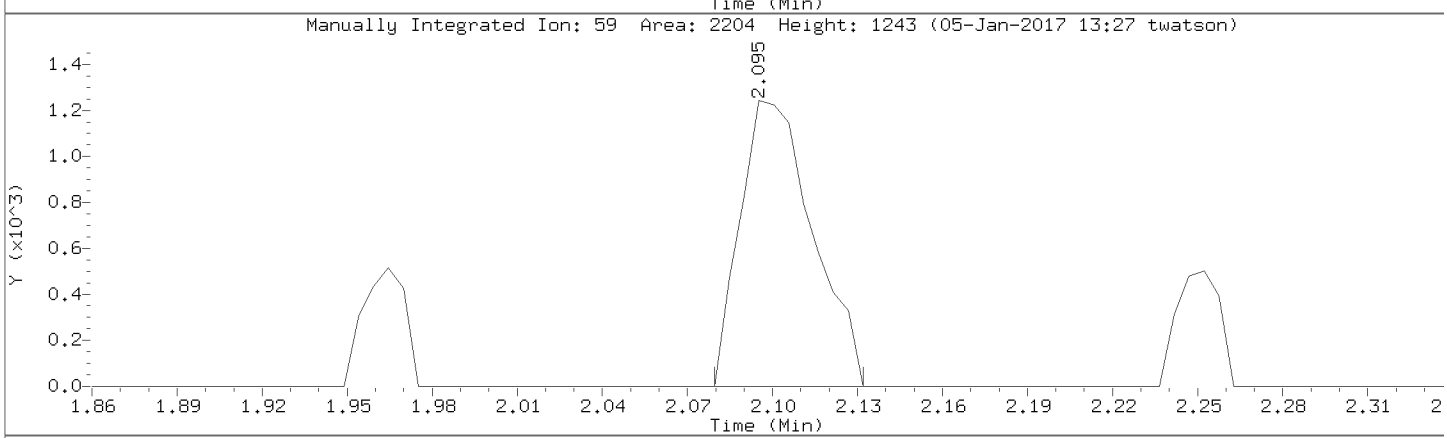
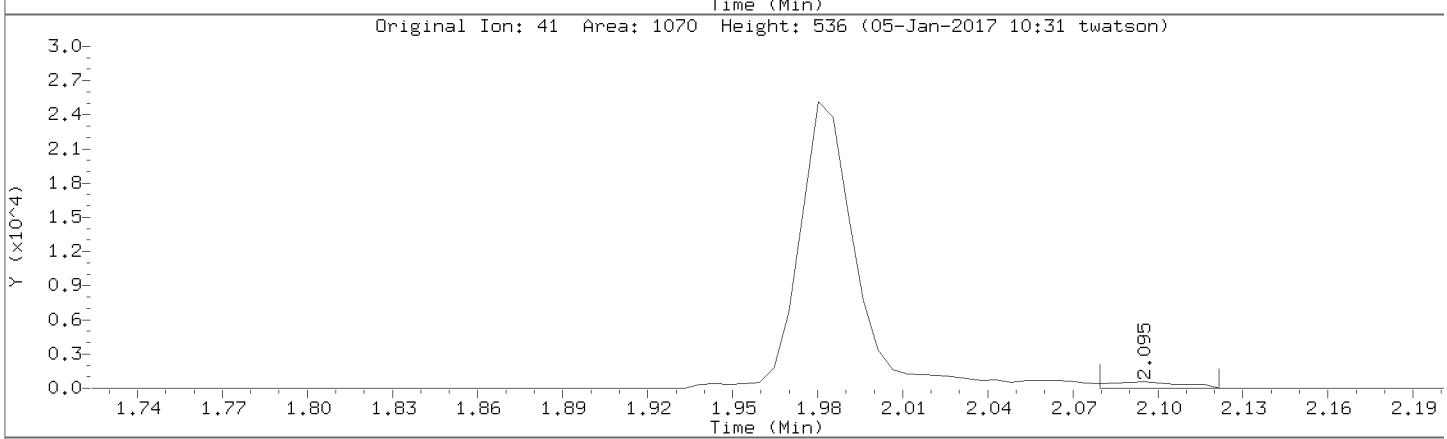
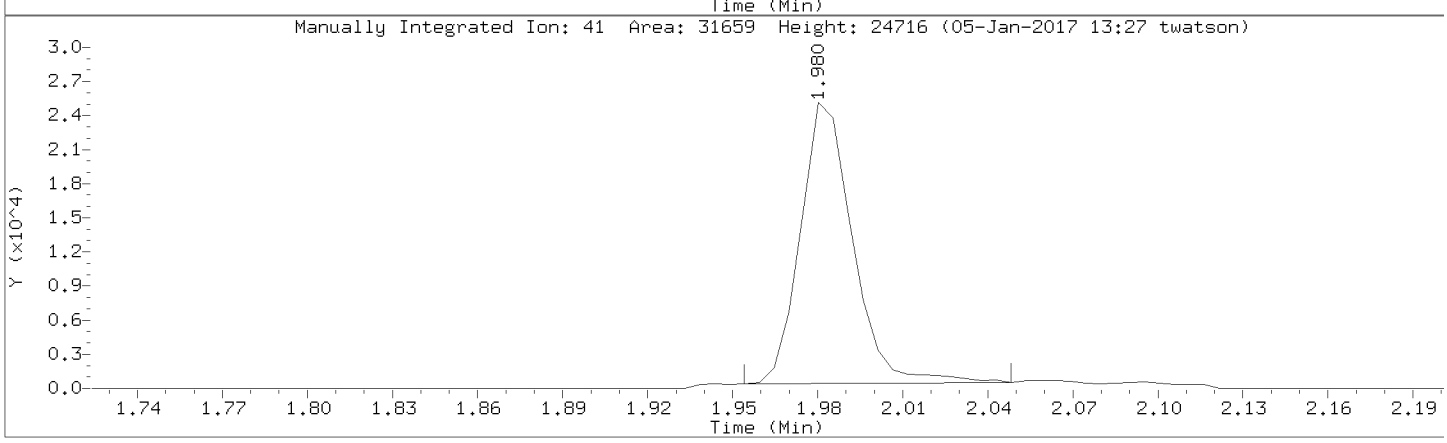
Injection Date: 04-JAN-2017 17:24
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL5,139200:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b06cal6.d
Lab Smp Id: 8260-CAL6,139201:0 Client Smp ID: 8260-CAL6,139201:0
Inj Date : 04-JAN-2017 18:02
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal6,139201:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 57 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	57930	50.0000	53.2	
2 Chloromethane	50	1.127	1.122	(0.253)	47120	50.0000	48.7	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	49703	50.0000	57.6	
4 Bromomethane	94	1.331	1.316	(0.298)	21677	50.0000	60.0	
5 Chloroethane	64	1.378	1.363	(0.309)	24931	50.0000	57.6	
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	72905	50.0000	54.6	
7 Diethyl ether	74	1.635	1.629	(0.366)	17081	50.0000	51.1	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	43551	50.0000	54.0	
9 Acrolein	56	1.713	1.708	(0.384)	66663	1000.00	1080	
10 1,1,2trichlorotrifluoroethane	101	1.765	1.755	(0.396)	41910	50.0000	53.2	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	33548	50.0000	52.0	
12 Acetone	43	1.781	1.781	(0.399)	31491	250.000	218	
13 Iodomethane	142	1.870	1.860	(0.419)	99992	100.000	104	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	109297	50.0000	49.2	
15 Methyl Acetate	43	1.964	1.959	(0.440)	23492	50.0000	54.2	
16 Acetonitrile	39	1.980	1.975	(0.444)	63776	50.0000	53.1	
17 allyl chloride	41	1.980	1.975	(0.444)	81623	100.000	103	
18 Methylene Chloride	84	2.064	2.053	(0.462)	35671	50.0000	48.4	
19 tert-Butyl Alcohol	59	2.100	2.111	(0.470)	4946	100.000	92.8(M)	NI
20 Acrylonitrile	53	2.205	2.200	(0.494)	31955	200.000	206	
21 Methyl-tert-butyl ether	73	2.236	2.231	(0.501)	91316	50.0000	48.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.504)	36608	50.0000	53.2	
23 n-Hexane	57	2.445	2.435	(0.548)	48526	50.0000	52.7	
24 Vinyl Acetate	43	2.560	2.560	(0.574)	210306	200.000	220	
25 1,1-Dichloroethane	63	2.576	2.571	(0.577)	60211	50.0000	51.4	
26 Chloroprene	53	2.634	2.628	(0.590)	42312	50.0000	54.0	
27 2-Butanone	43	3.057	3.063	(0.685)	40621	250.000	230	
28 1,2-Dichloroethene (cis)	96	3.084	3.083	(0.691)	39866	50.0000	53.0	
29 2,2-Dichloropropane	77	3.089	3.083	(0.692)	55320	50.0000	53.4	
30 Propionitrile	54	3.115	3.125	(0.698)	3056	50.0000	49.6(Q)	
31 Methacrylonitrile	41	3.282	3.282	(0.735)	13554	50.0000	50.6	
32 Bromochloromethane	49	3.335	3.335	(0.747)	22908	50.0000	51.9	
33 Tetrahydrofuran	42	3.350	3.350	(0.750)	6422	50.0000	48.6	
34 Chloroform	83	3.455	3.450	(0.774)	66274	50.0000	49.9	
35 1,1,1-Trichloroethane	97	3.643	3.638	(0.816)	60212	50.0000	51.4	
$ 36 Dibromofluoromethane (S)	113	3.643	3.638	(0.816)	47930	50.0000	48.1	
37 Cyclohexane	56	3.737	3.727	(0.837)	47338	50.0000	52.4	
38 n-butyl chloride	56	3.800	3.795	(0.851)	60156	50.0000	53.3	
39 Carbon Tetrachloride	117	3.842	3.837	(0.861)	59222	50.0000	54.0	
40 1,1-Dichloropropene	75	3.847	3.842	(0.862)	51671	50.0000	53.5	
41 Benzene	78	4.088	4.082	(0.916)	135272	50.0000	47.5	
42 1,2-Dichloroethane	62	4.166	4.166	(0.933)	43676	50.0000	49.9	
43 Isobutyl alcohol	43	4.177	4.187	(0.936)	180503	50.0000	48.6(M)	NI
44 2,2,4-Trimethylpentane	57	4.250	4.245	(0.952)	116627	50.0000	54.4	
* 45 Fluorobenzene (IS)	96	4.464	4.459	(1.000)	163267	50.0000		
46 Trichloroethene	95	4.898	4.893	(1.097)	39273	50.0000	52.2	
47 Methylcyclohexane	55	5.160	5.155	(1.156)	42504	50.0000	53.4	
48 1,2-Dichloropropane	63	5.197	5.197	(1.164)	33784	50.0000	52.3	
49 Dibromomethane	93	5.291	5.291	(1.185)	23785	50.0000	49.8	
50 Methyl methacrylate	69	5.291	5.291	(1.185)	19695	50.0000	50.7	
51 1,4-Dioxane	88	5.291	5.291	(1.185)	5557	1000.00	947	
52 Bromodichloromethane	83	5.505	5.505	(1.233)	51285	50.0000	50.2	
53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	36652	100.000	109	
54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	59477	50.0000	53.7	
55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	118679	250.000	256	
$ 56 Toluene-d8 (S)	98	6.264	6.263	(0.832)	163846	50.0000	50.0	
57 Toluene	91	6.331	6.337	(0.841)	157895	50.0000	51.5	
58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	51387	50.0000	52.1	
59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	37299	50.0000	50.0	
60 1,1,2-Trichloroethane	83	6.771	6.776	(0.899)	26043	50.0000	52.7	
61 Tetrachloroethene	166	6.828	6.828	(0.907)	49522	50.0000	53.7	
62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	50887	50.0000	52.6	
63 2-Hexanone	43	6.959	6.964	(0.924)	84458	250.000	253	
64 Dibromochloromethane	129	7.090	7.090	(0.942)	45427	50.0000	51.4	
65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	35248	50.0000	52.4	
* 66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	128542	50.0000		
67 Chlorobenzene	112	7.550	7.555	(1.003)	114367	50.0000	50.6	
68 1,1,1,2-Tetrachloroethane	131	7.623	7.629	(1.013)	43513	50.0000	53.4	
69 Ethylbenzene	106	7.629	7.634	(1.013)	62336	50.0000	51.2	
70 m&p-Xylene	106	7.723	7.728	(1.026)	149225	100.000	99.3	
71 o-Xylene	106	7.984	7.984	(1.060)	74945	50.0000	50.8	
72 Styrene	104	8.000	8.000	(1.063)	128324	50.0000	52.4	
73 Bromoform	173	8.120	8.125	(0.901)	32605	50.0000	48.1	
74 Isopropylbenzene	105	8.225	8.225	(1.092)	199556	50.0000	50.7	
$ 75 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	62400	50.0000	51.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
76 Bromobenzene	77	8.418	8.418	(1.118)	68299	50.0000	49.4	
77 1,1,2,2-Tetrachloroethane	83	8.424	8.429	(0.934)	42900	50.0000	45.8	
78 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.121)	8603	50.0000	51.4	
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	12818	50.0000	48.6	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	230594	50.0000	48.5	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	131982	50.0000	47.9	
82 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.952)	177254	50.0000	49.7	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	54459	50.0000	47.9	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	155687	50.0000	48.9	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	184250	50.0000	49.8	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	238372	50.0000	47.9	
87 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	109274	50.0000	49.2	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	208114	50.0000	50.8	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	85051	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	111789	50.0000	48.4	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	182272	50.0000	50.0	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	104829	50.0000	48.5	
93 1,2-Dibromo-3-chloropropane	155	9.627	9.627	(1.068)	8761	50.0000	47.9	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	77790	50.0000	47.7	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	45723	50.0000	47.5	
96 Naphthalene	128	10.191	10.191	(1.131)	169086	50.0000	45.5	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	72723	50.0000	47.6	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	81892	50.0000	45.8	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	76257	50.0000	47.0	
148 Ethyl Acetate	88	3.104	3.110	(0.695)	8866	400.000	404(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b06cal6.d

Date : 04-JAN-2017 18:02

Client ID: 8260-CAL6,139201:0

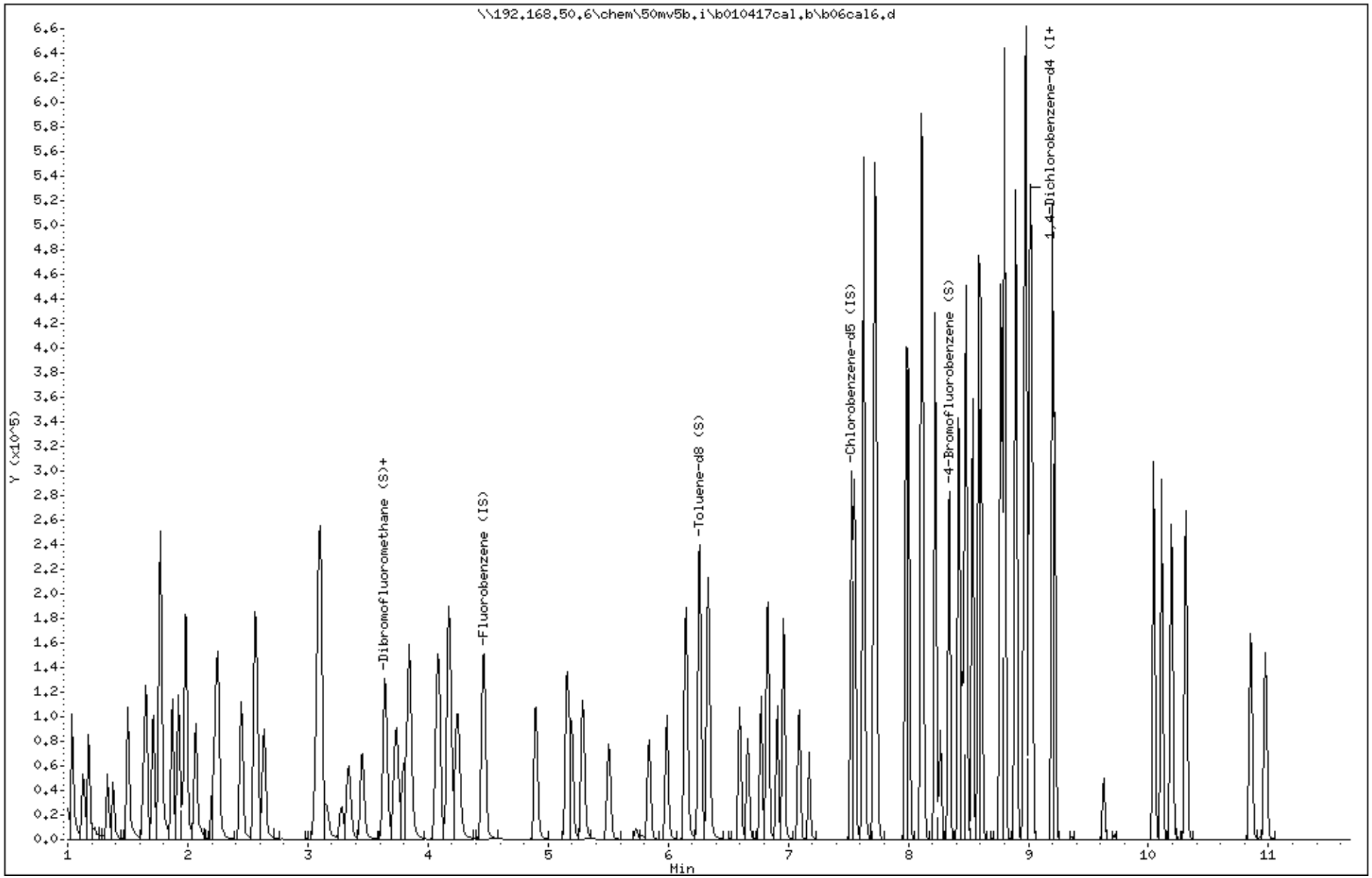
Instrument: 50mv5b.i

Sample Info: 8260-CAL6,139201:0

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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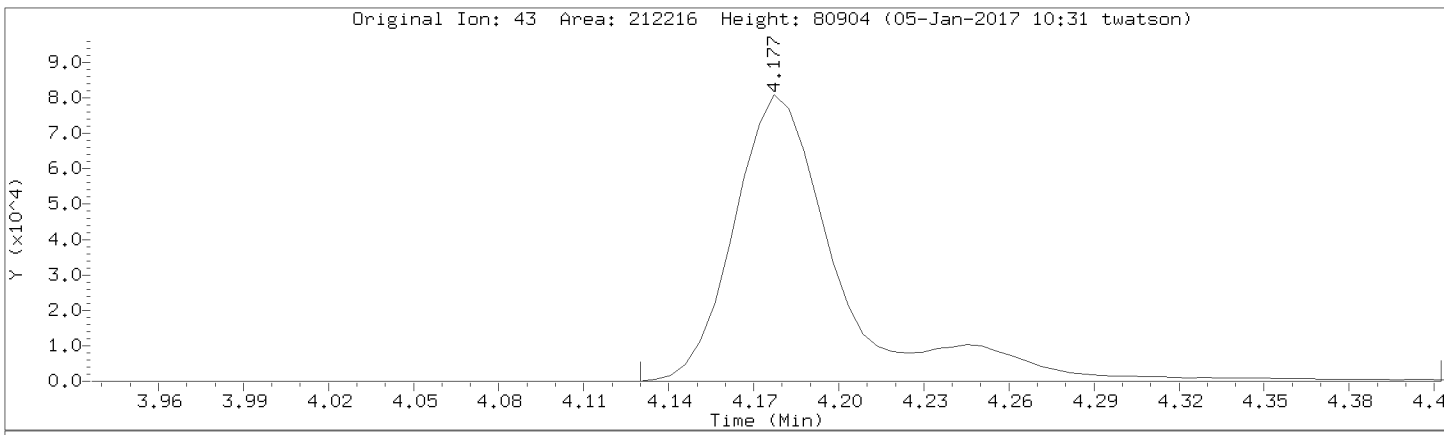
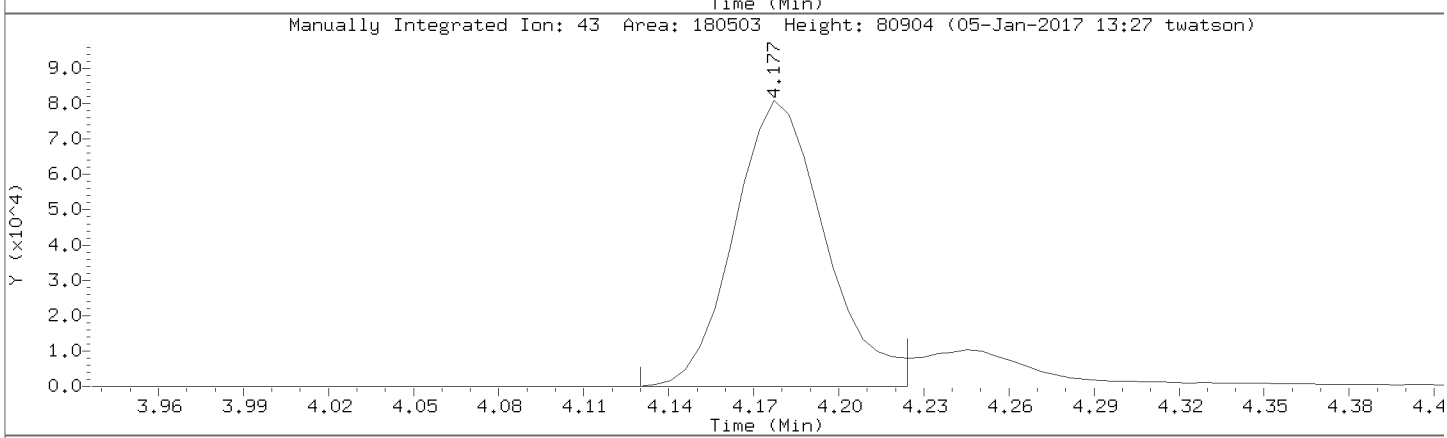
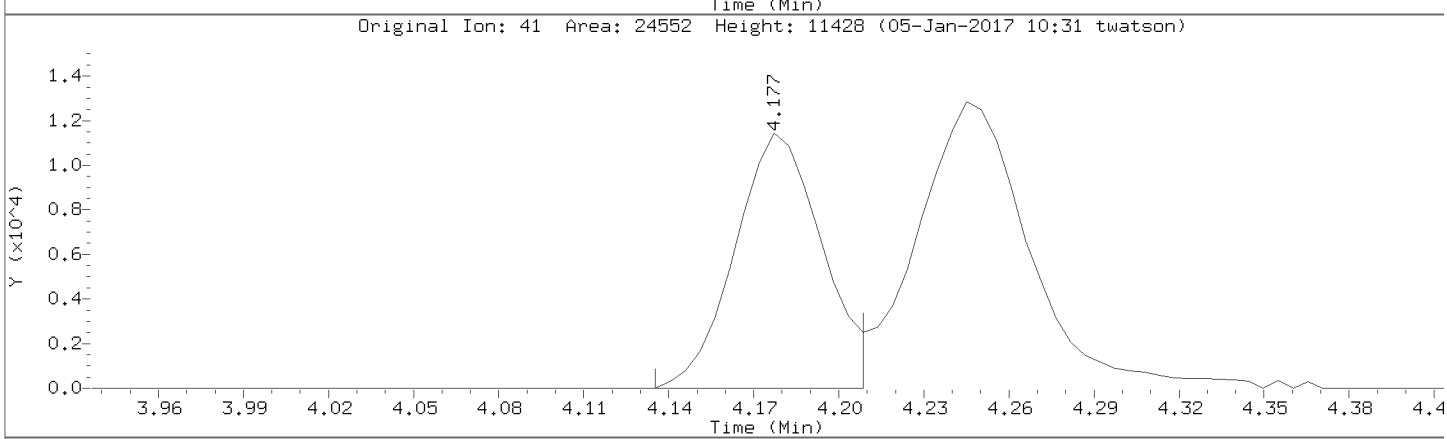
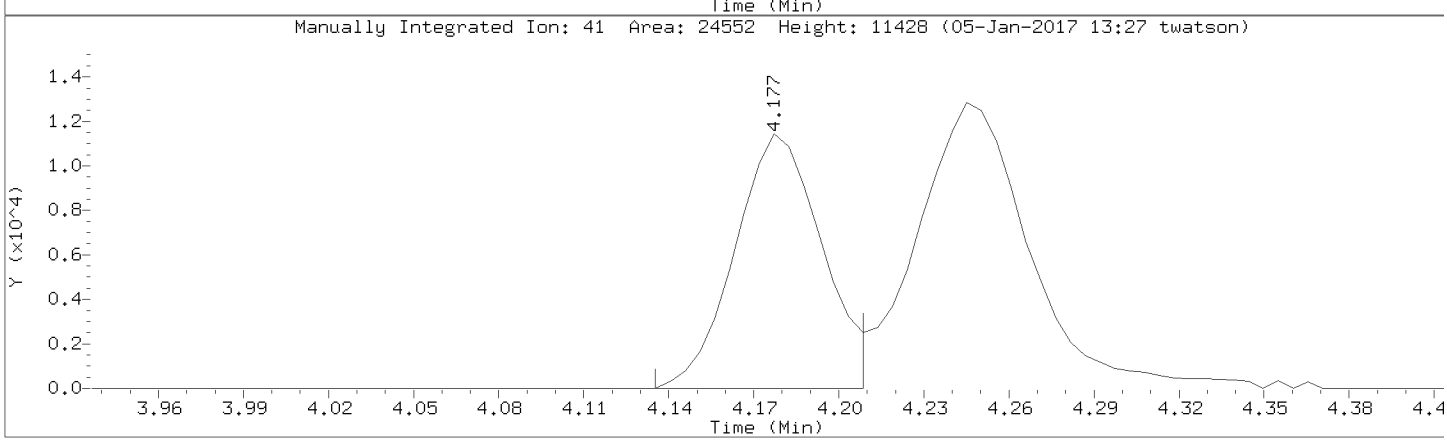
Injection Date: 04-JAN-2017 18:02
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL6,139201:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

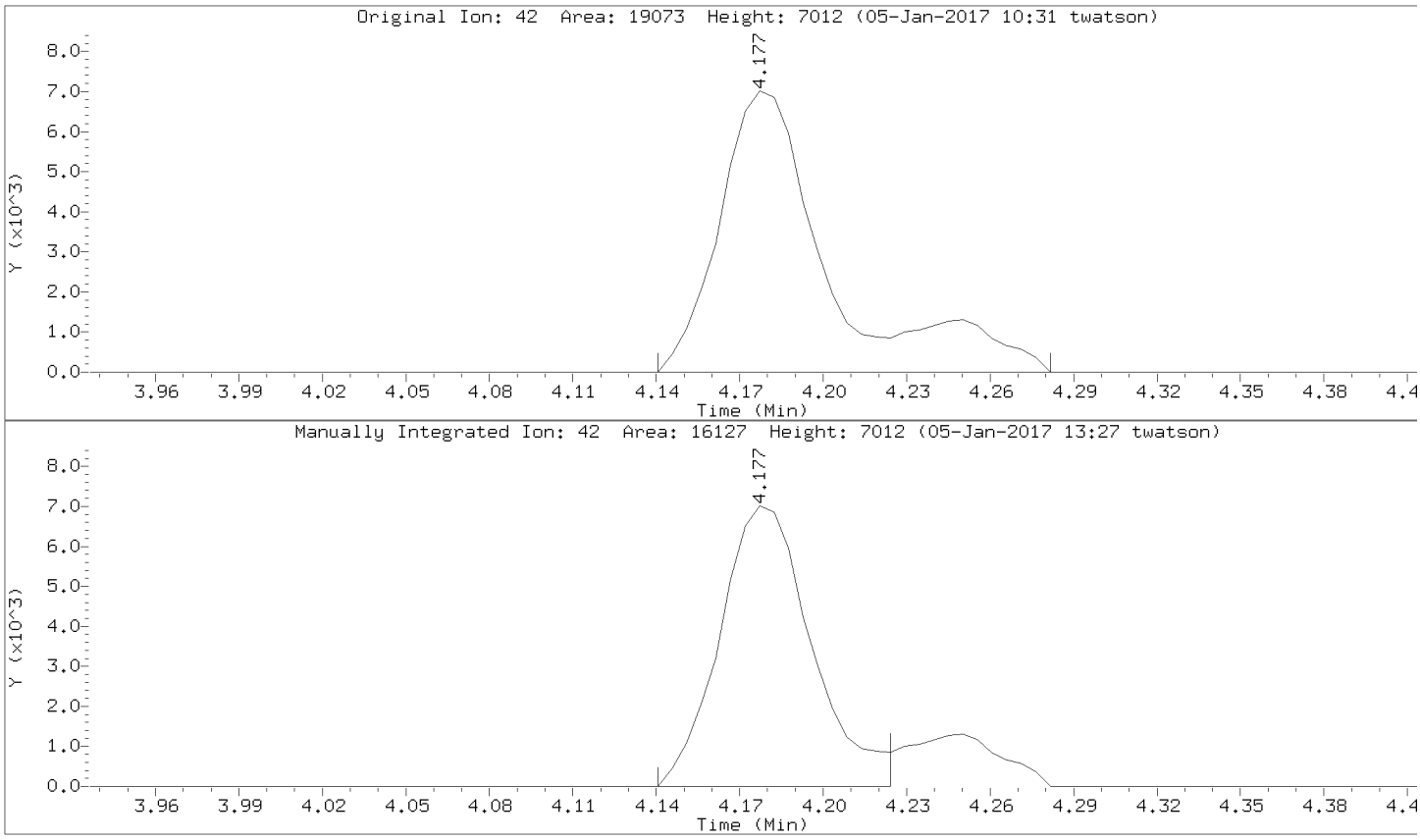






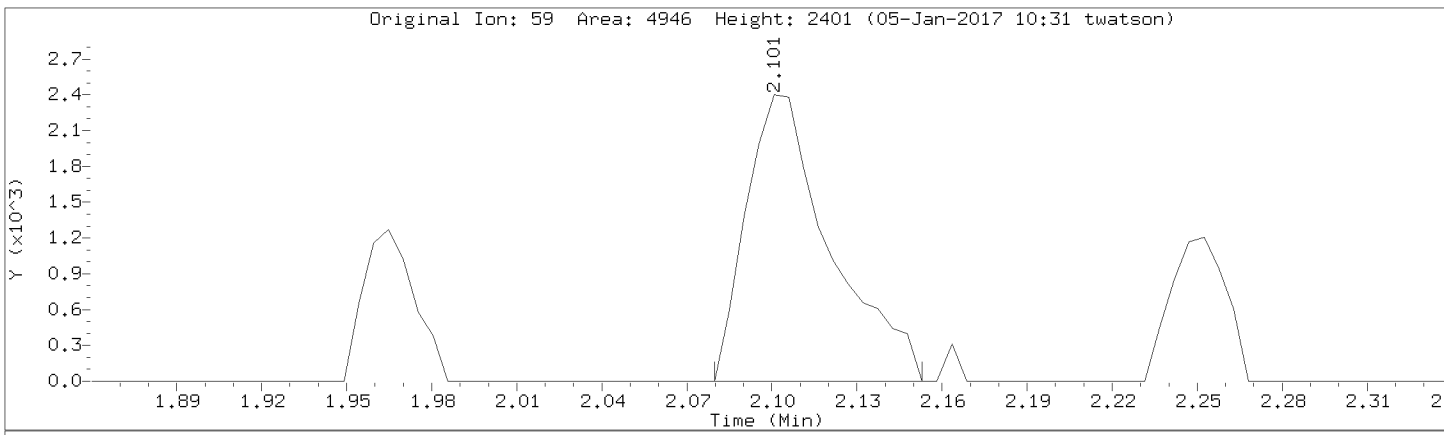


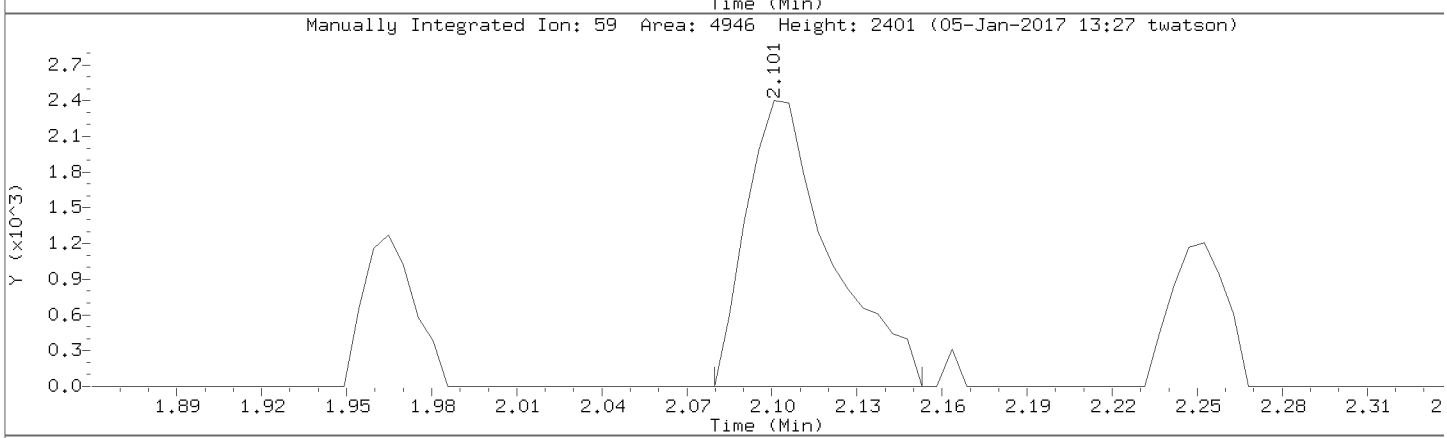
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b06cal6.d
Injection Date: 04-JAN-2017 18:02
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL6,139201:0

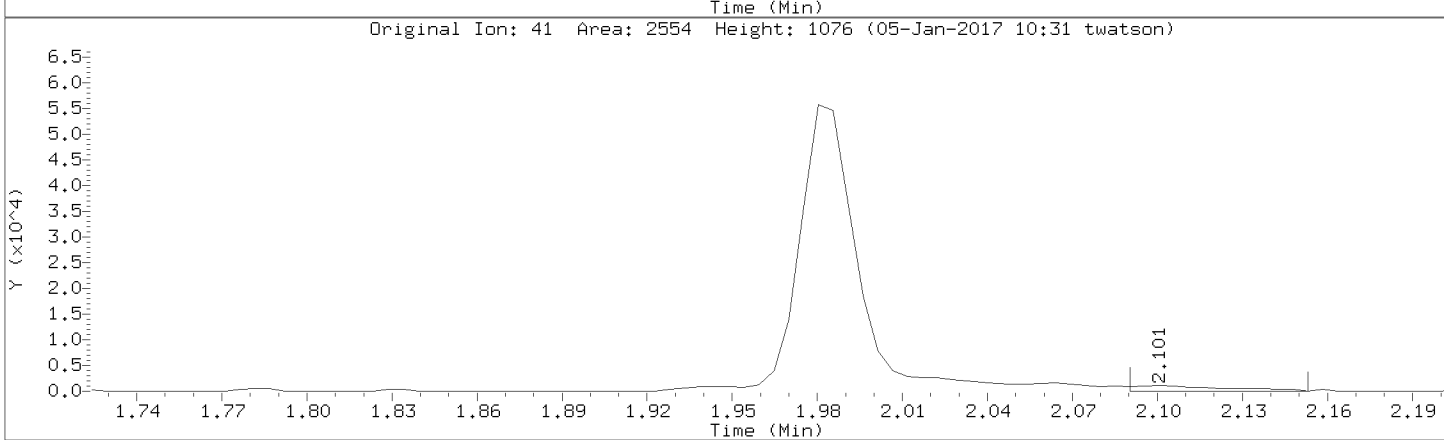


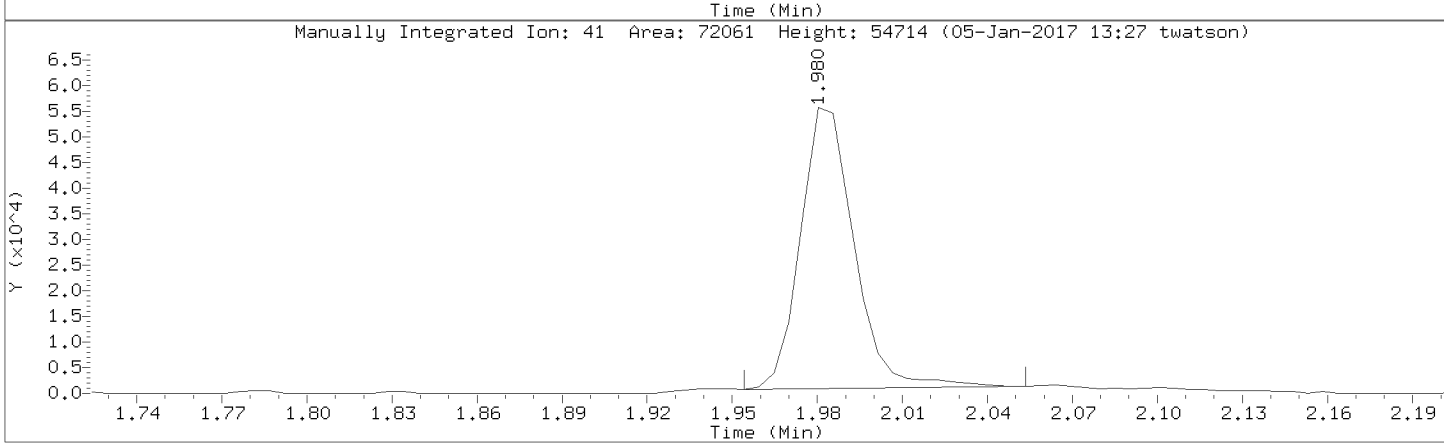
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b06cal6.d
Injection Date: 04-JAN-2017 18:02
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL6,139201:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b07cal7.d
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Inj Date : 04-JAN-2017 18:40
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal7,139202:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 58 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	180367	150.000	152	
2 Chloromethane	50	1.127	1.122	(0.253)	142845	150.000	135	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	147944	150.000	157	
4 Bromomethane	94	1.326	1.316	(0.297)	65556	150.000	166	
5 Chloroethane	64	1.373	1.363	(0.308)	71290	150.000	151	
6 Trichlorofluoromethane	101	1.499	1.488	(0.336)	215133	150.000	148	
7 Diethyl ether	74	1.635	1.629	(0.367)	55226	150.000	151	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	141149	150.000	160	
9 Acrolein	56	1.708	1.708	(0.383)	215449	3000.00	3200	
10 1,1,2trichlorotrifluoroethane	101	1.765	1.755	(0.396)	140336	150.000	163	
11 1,1-Dichloroethene	96	1.771	1.760	(0.397)	113695	150.000	161	
12 Acetone	43	1.781	1.781	(0.400)	106511	750.000	677	
13 Iodomethane	142	1.865	1.860	(0.418)	335645	300.000	323	
14 Carbon Disulfide	76	1.917	1.912	(0.430)	353695	150.000	146	
15 Methyl Acetate	43	1.964	1.959	(0.441)	72067	150.000	152	
16 Acetonitrile	39	1.980	1.975	(0.444)	187186	150.000	143	
17 allyl chloride	41	1.980	1.975	(0.444)	250092	300.000	290	
18 Methylene Chloride	84	2.058	2.053	(0.462)	114132	150.000	142	
19 tert-Butyl Alcohol	59	2.105	2.111	(0.472)	19228	300.000	330(Q)	
20 Acrylonitrile	53	2.205	2.200	(0.495)	107100	600.000	632	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	315337	150.000	154	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	22 1,2-Dichloroethene (trans)	96	2.247	2.241	(0.504)	124770	150.000	166	
	23 n-Hexane	57	2.440	2.435	(0.547)	161770	150.000	161	
	24 Vinyl Acetate	43	2.560	2.560	(0.574)	687384	600.000	660	
	25 1,1-Dichloroethane	63	2.576	2.571	(0.578)	198309	150.000	155	
	26 Chloroprene	53	2.634	2.628	(0.591)	140608	150.000	164	
	27 2-Butanone	43	3.057	3.063	(0.686)	124604	750.000	646	
	28 1,2-Dichloroethene (cis)	96	3.083	3.083	(0.692)	128081	150.000	156	
	29 2,2-Dichloropropane	77	3.089	3.083	(0.693)	177565	150.000	157	
	30 Propionitrile	54	3.120	3.125	(0.700)	11050	150.000	164(QM)	NI
	31 Methacrylonitrile	41	3.282	3.282	(0.736)	46569	150.000	159	
	32 Bromochloromethane	49	3.335	3.335	(0.748)	71607	150.000	148	
	33 Tetrahydrofuran	42	3.350	3.350	(0.751)	23315	150.000	162	
	34 Chloroform	83	3.450	3.450	(0.774)	218800	150.000	151	
	35 1,1,1-Trichloroethane	97	3.638	3.638	(0.816)	201892	150.000	158	
$	36 Dibromofluoromethane (S)	113	3.638	3.638	(0.816)	53811	50.0000	49.4	
	37 Cyclohexane	56	3.732	3.727	(0.837)	146980	150.000	149	
	38 n-butyl chloride	56	3.800	3.795	(0.852)	196609	150.000	160	
	39 Carbon Tetrachloride	117	3.842	3.837	(0.862)	195441	150.000	163	
	40 1,1-Dichloropropene	75	3.842	3.842	(0.862)	167938	150.000	159	
	41 Benzene	78	4.088	4.082	(0.917)	451606	150.000	145	
	42 1,2-Dichloroethane	62	4.171	4.166	(0.935)	150505	150.000	157	
	43 Isobutyl alcohol	43	4.182	4.187	(0.938)	623983	150.000	154(M)	NI
	44 2,2,4-Trimethylpentane	57	4.250	4.245	(0.953)	392098	150.000	168	
*	45 Fluorobenzene (IS)	96	4.459	4.459	(1.000)	178256	50.0000		
	46 Trichloroethene	95	4.893	4.893	(1.097)	128371	150.000	156	
	47 Methylcyclohexane	55	5.160	5.155	(1.157)	136319	150.000	157	
	48 1,2-Dichloropropane	63	5.191	5.197	(1.164)	110290	150.000	156	
	49 Dibromomethane	93	5.291	5.291	(1.186)	79741	150.000	153	
	50 Methyl methacrylate	69	5.291	5.291	(1.186)	68484	150.000	161	
	51 1,4-Dioxane	88	5.296	5.291	(1.188)	21605	3000.00	3080(M)	LT
	52 Bromodichloromethane	83	5.505	5.505	(1.235)	167142	150.000	150	
	53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	124460	300.000	314	
	54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	193299	150.000	148	
	55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	392265	750.000	716	
$	56 Toluene-d8 (S)	98	6.263	6.263	(0.832)	190359	50.0000	49.2	
	57 Toluene	91	6.337	6.337	(0.842)	506865	150.000	140	
	58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	174301	150.000	150	
	59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	132611	150.000	151	
	60 1,1,2-Trichloroethane	83	6.776	6.776	(0.900)	88694	150.000	152	
	61 Tetrachloroethene	166	6.828	6.828	(0.907)	166659	150.000	153	
	62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	168167	150.000	147	
	63 2-Hexanone	43	6.959	6.964	(0.924)	284650	750.000	722	
	64 Dibromochloromethane	129	7.090	7.090	(0.942)	149462	150.000	143	
	65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	116676	150.000	147	
*	66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	151686	50.0000		
	67 Chlorobenzene	112	7.550	7.555	(1.003)	378180	150.000	142	
	68 1,1,1,2-Tetrachloroethane	131	7.629	7.629	(1.013)	144892	150.000	151	
	69 Ethylbenzene	106	7.629	7.634	(1.013)	201820	150.000	140	
	70 m&p-Xylene	106	7.728	7.728	(1.026)	492980	300.000	278	
	71 o-Xylene	106	7.984	7.984	(1.060)	241990	150.000	139	
	72 Styrene	104	8.000	8.000	(1.063)	415424	150.000	144	
	73 Bromoform	173	8.120	8.125	(0.901)	111658	150.000	151	
	74 Isopropylbenzene	105	8.225	8.225	(1.092)	674965	150.000	145	
$	75 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	73412	50.0000	51.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
76 Bromobenzene	77	8.418	8.418	(1.118)	233442	150.000	143	
77 1,1,2,2-Tetrachloroethane	83	8.424	8.429	(0.934)	149682	150.000	146	
78 trans-1,4-Dichloro-2-butene	53	8.444	8.444	(1.122)	31770	150.000	161	
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	45088	150.000	156	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	766601	150.000	147	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	426808	150.000	141	
82 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	566743	150.000	145	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	174721	150.000	140	
84 tert-Butylbenzene	119	8.774	8.774	(0.973)	530933	150.000	152	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	591899	150.000	146	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	763474	150.000	140	
87 1,3-Dichlorobenzene	146	8.968	8.973	(0.995)	356367	150.000	147	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	668995	150.000	149	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	93097	50.0000		
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	356215	150.000	141	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	591682	150.000	148	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	348417	150.000	147	
93 1,2-Dibromo-3-chloropropane	155	9.627	9.627	(1.068)	29973	150.000	150	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	258198	150.000	145	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	152163	150.000	144	
96 Naphthalene	128	10.191	10.191	(1.131)	549036	150.000	135	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	234260	150.000	140	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	288944	150.000	148	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	260832	150.000	147	
148 Ethyl Acetate	88	3.104	3.110	(0.696)	30039	1200.00	1250(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b07cal7.d

Date : 04-JAN-2017 18:40

Client ID: 8260-CAL7,139202:0

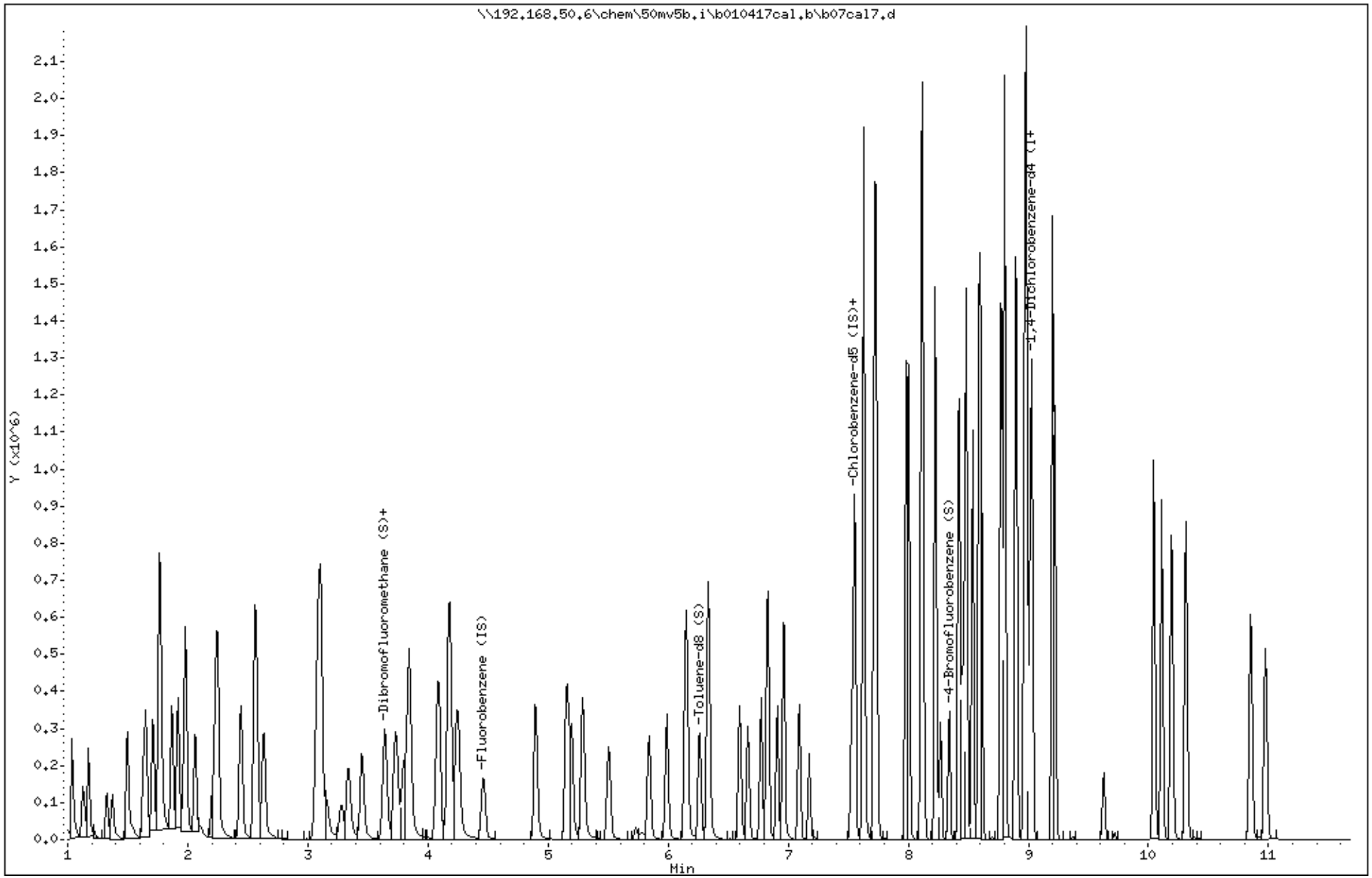
Instrument: 50mv5b.i

Sample Info: 8260-CAL7,139202:0

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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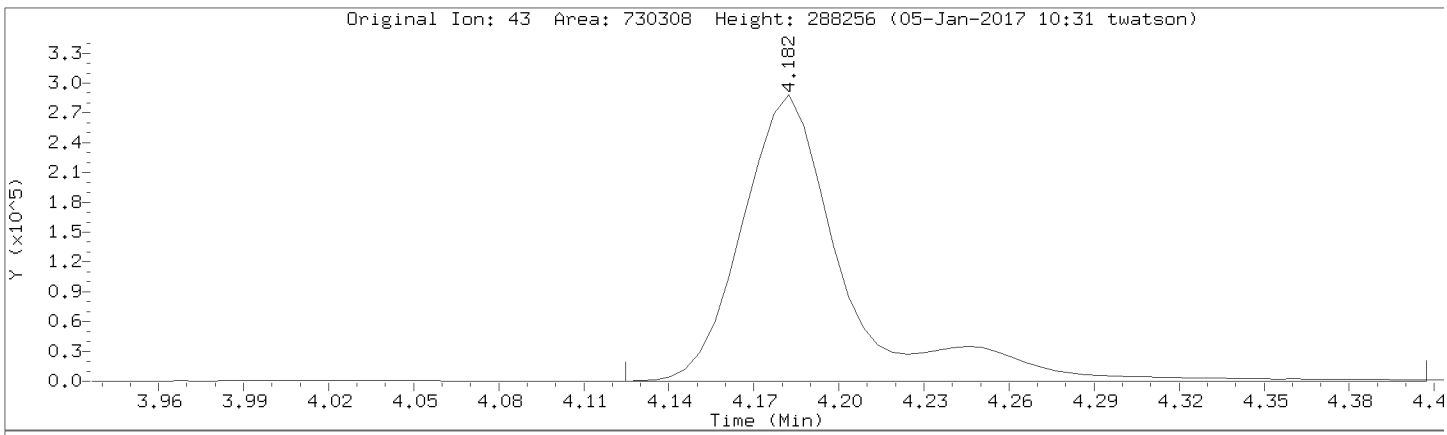
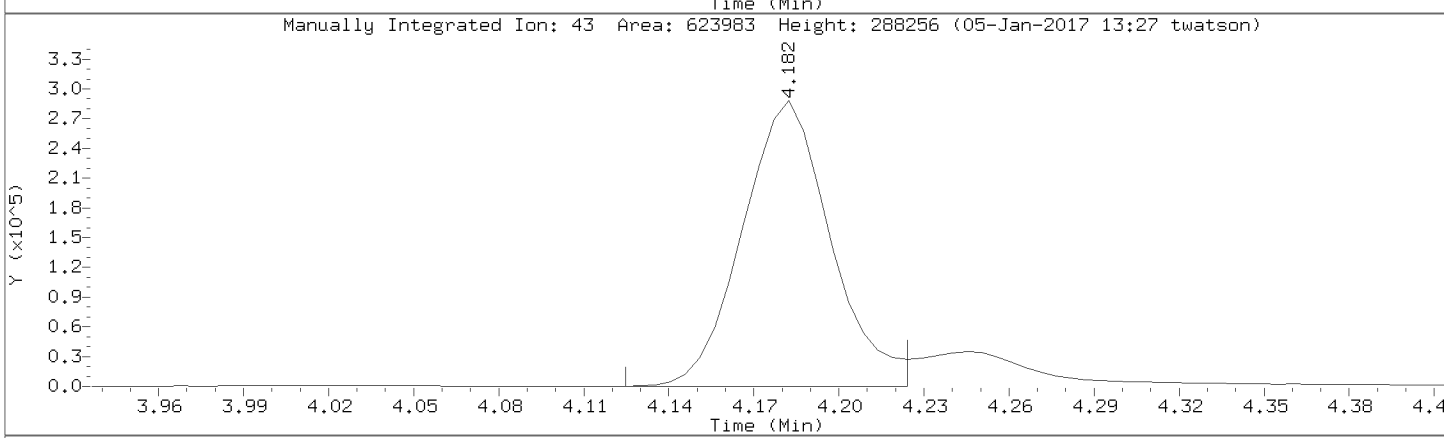
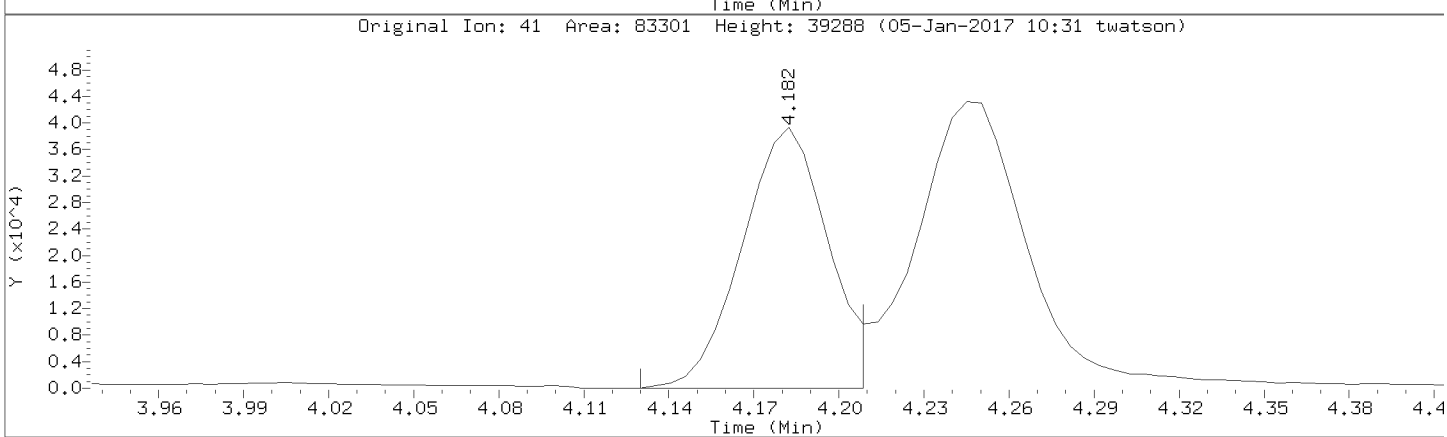
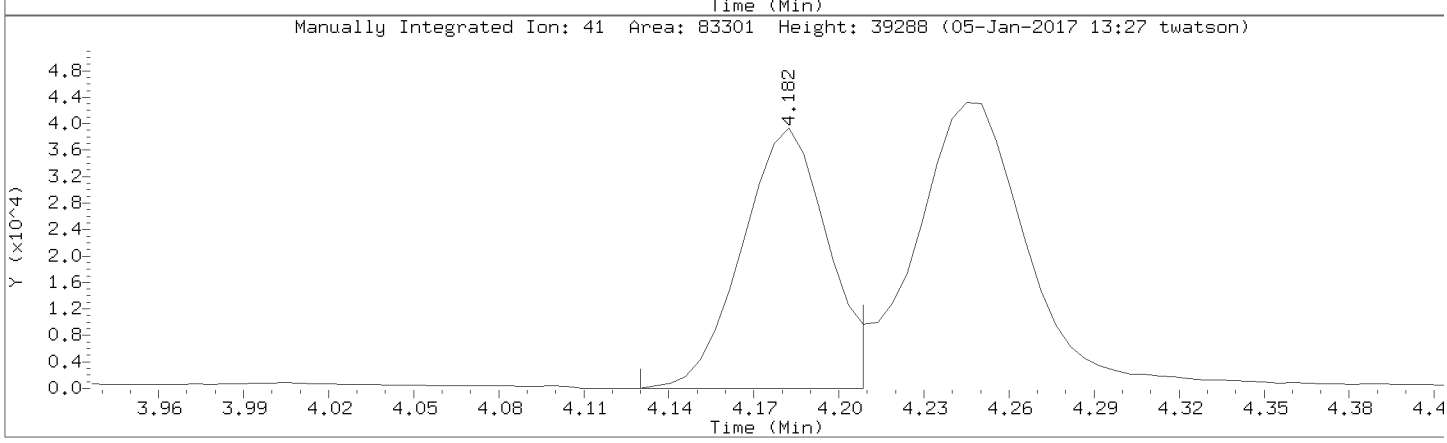
Injection Date: 04-JAN-2017 18:40
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL7,139202:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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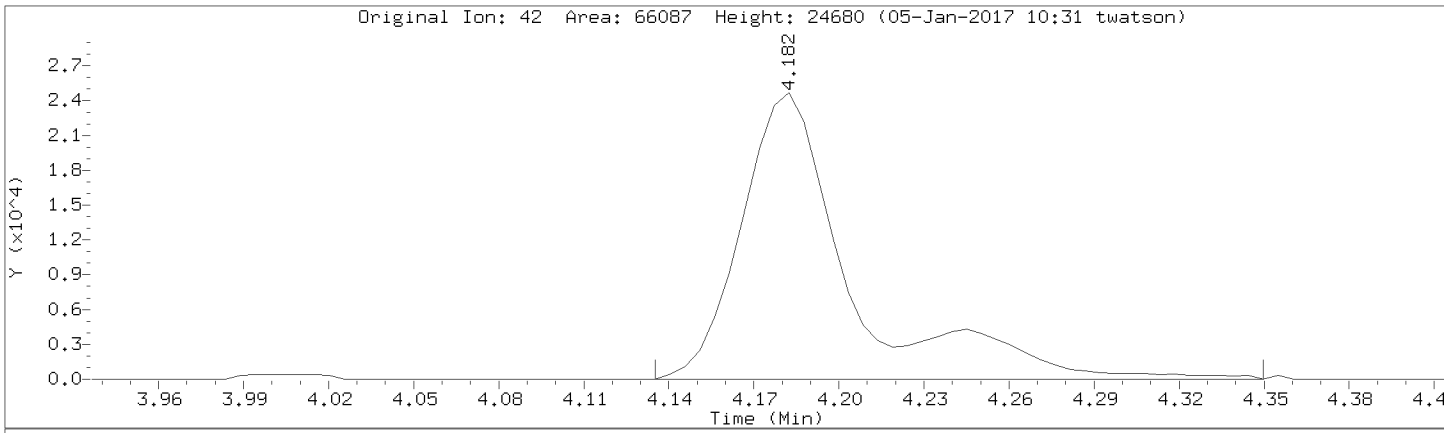
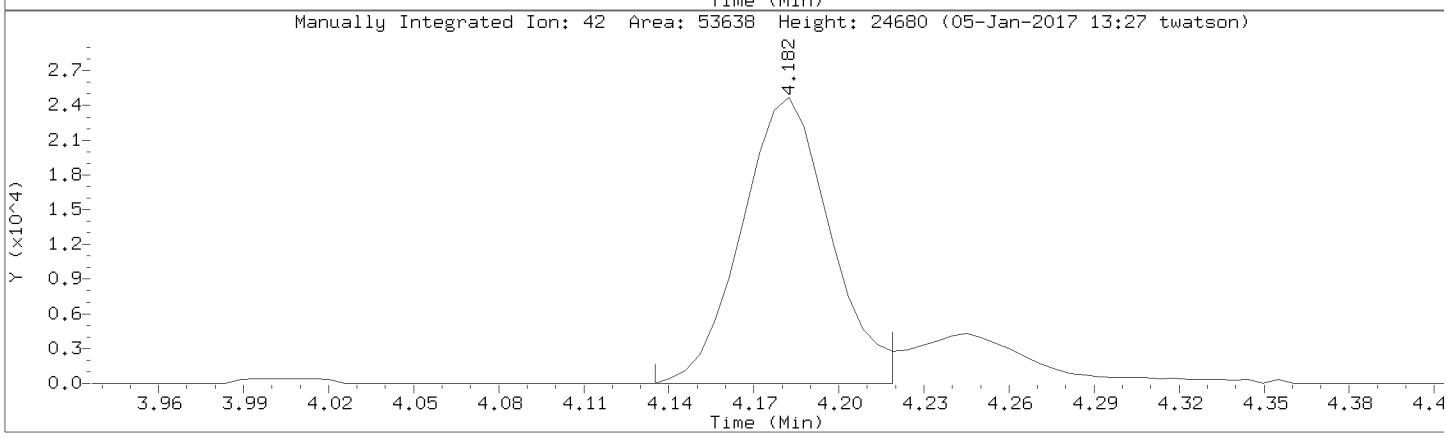
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL7,139202:0





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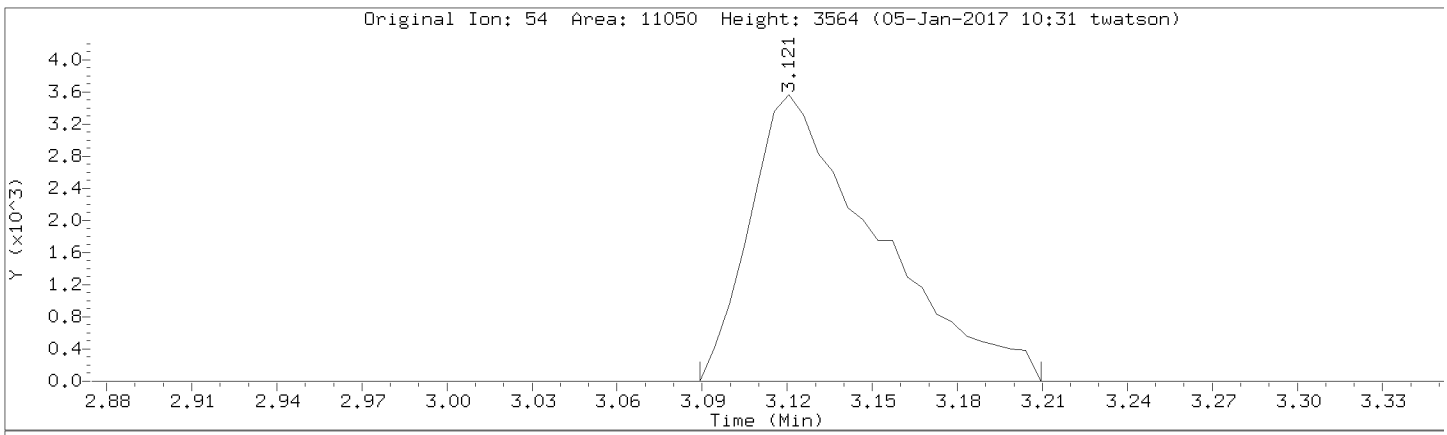
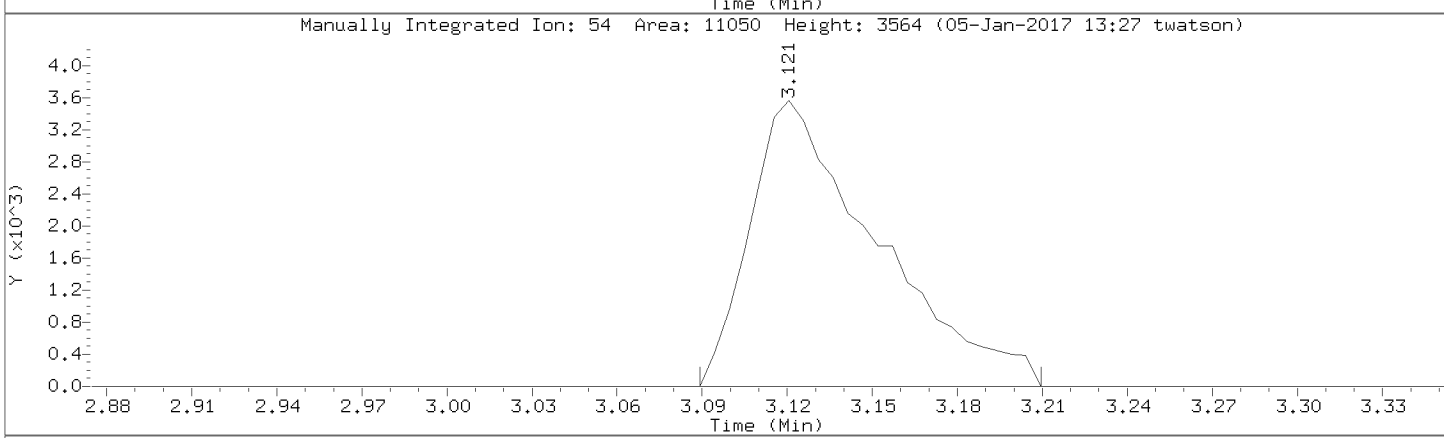
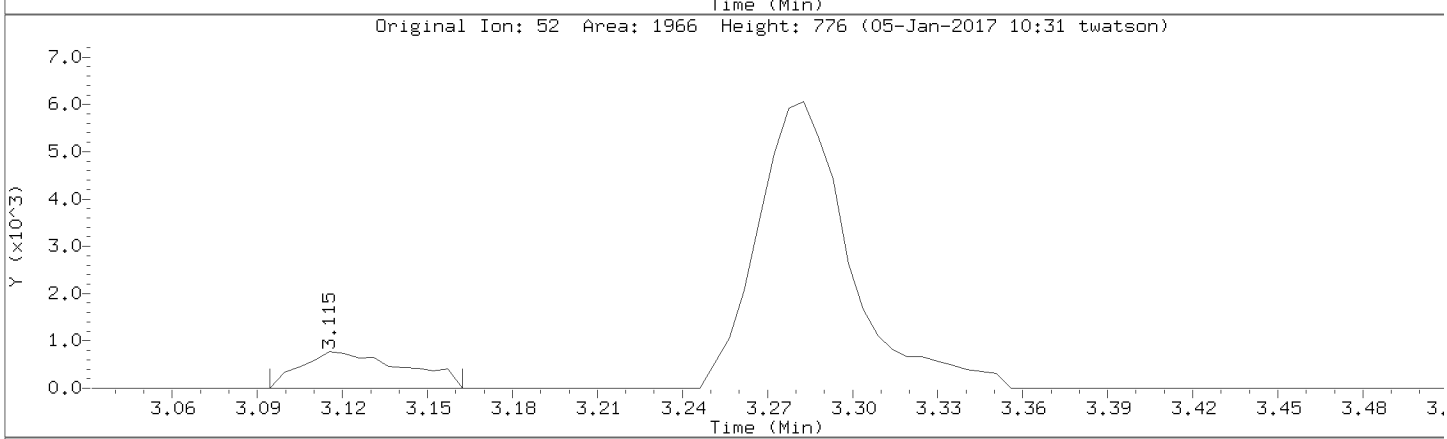
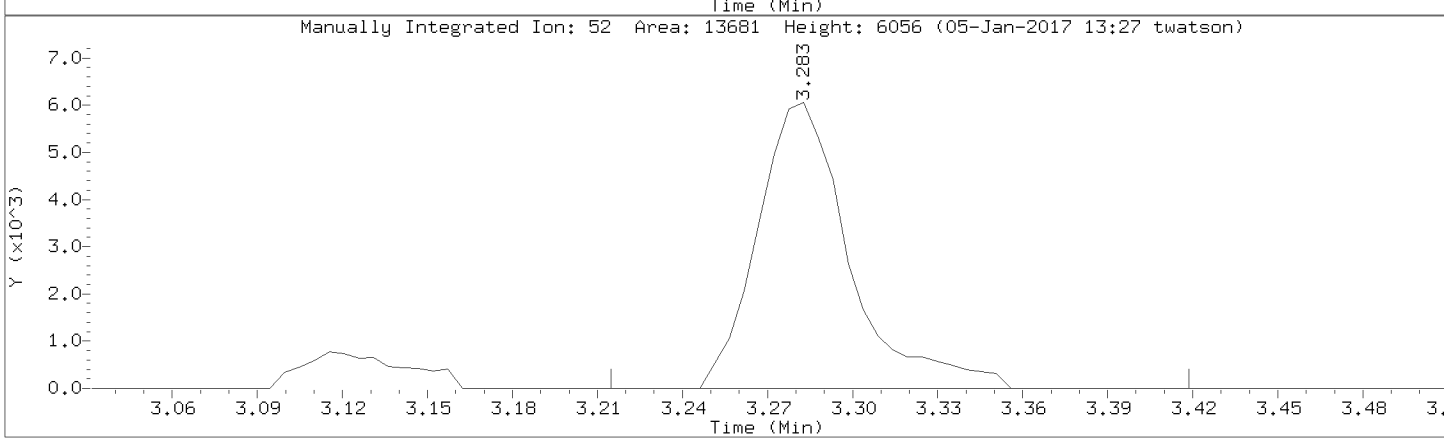
Injection Date: 04-JAN-2017 18:40
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL7,139202:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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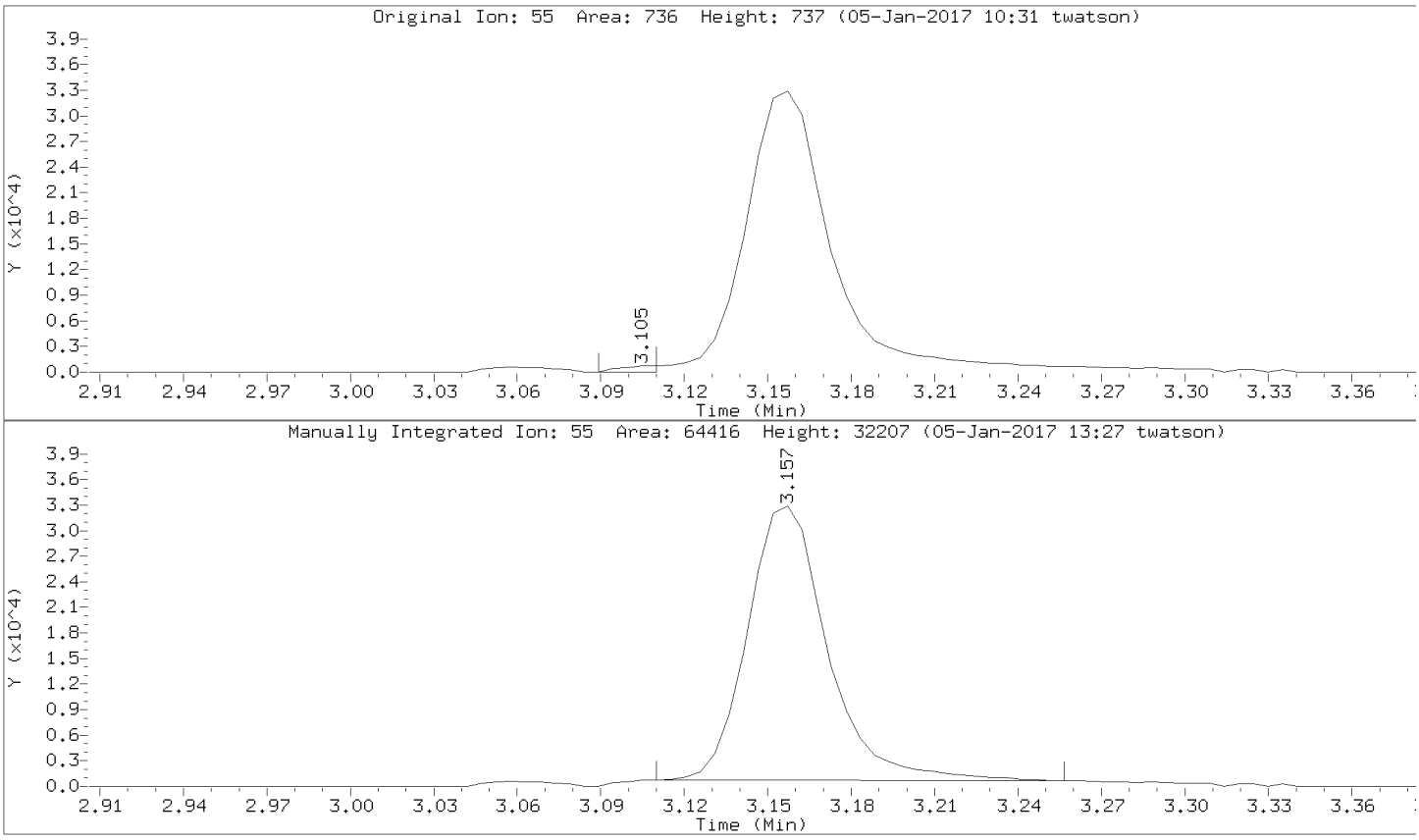
Injection Date: 04-JAN-2017 18:40
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL7,139202:0



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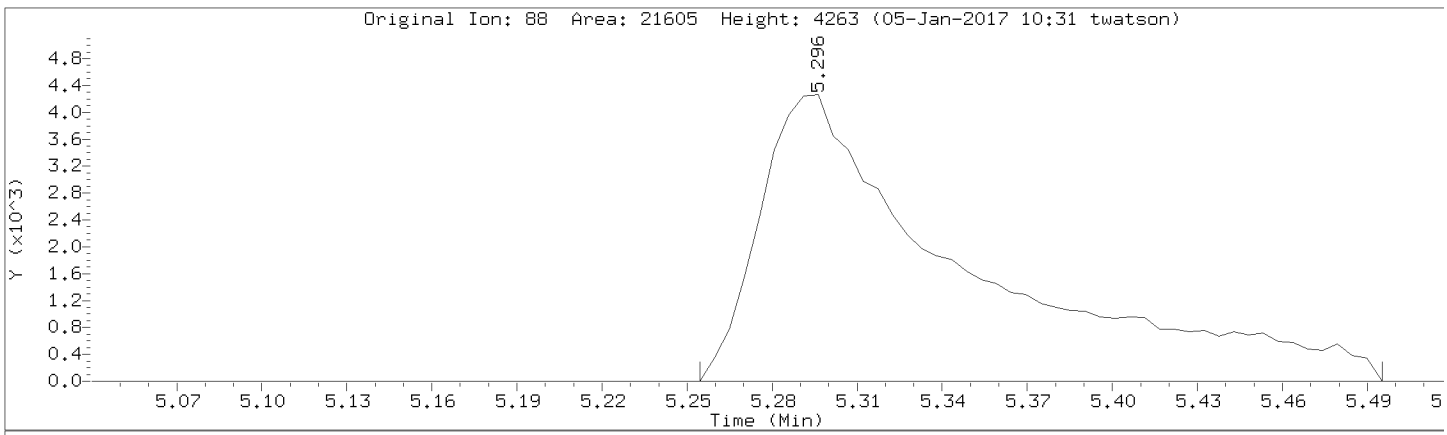
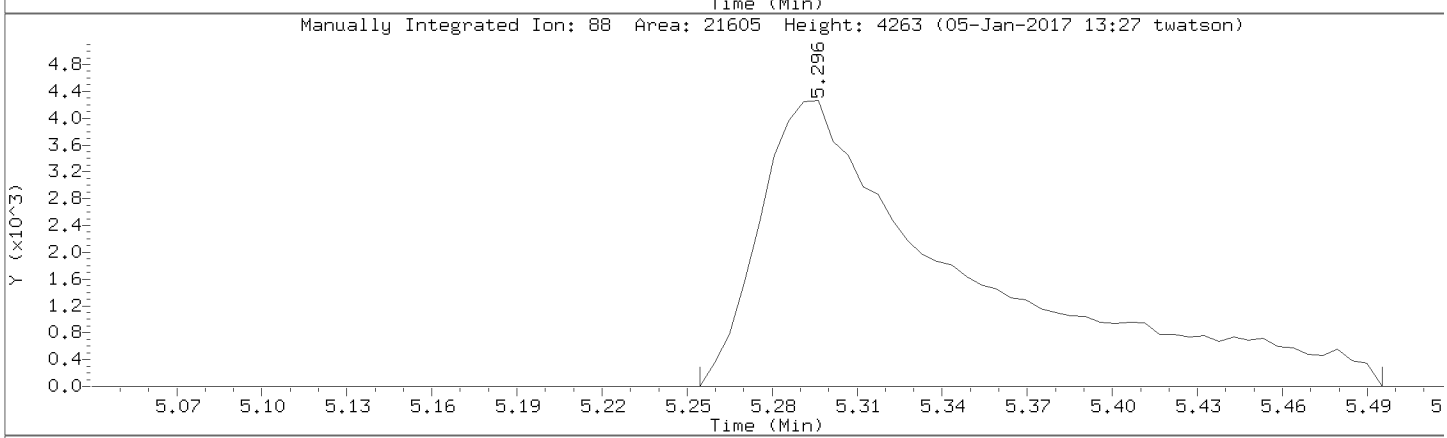
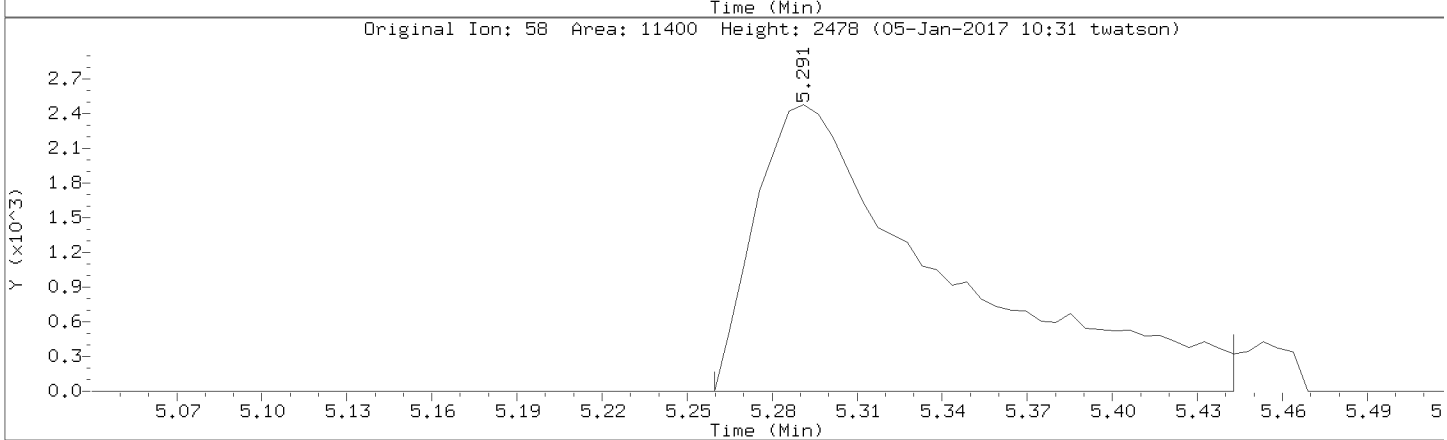
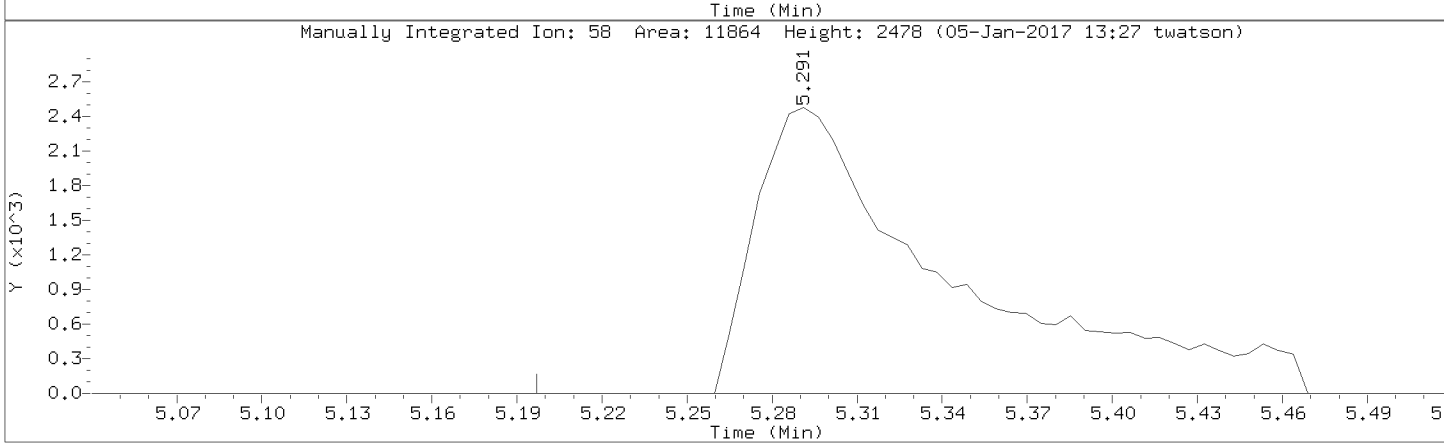
Injection Date: 04-JAN-2017 18:40
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL7,139202:0

Compound: 1,4-Dioxane Review Code: LT
CAS Number:









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b08cal8.d
Lab Smp Id: 8260-CAL8,139203:0 Client Smp ID: 8260-CAL8,139203:0
Inj Date : 04-JAN-2017 19:17
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-cal8,139203:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 12-DEC-2016 14:51 Cal File: b01cal1.d
Als bottle: 59 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.033	1.033	(0.232)	384039	300.000	293	
2 Chloromethane	50	1.122	1.122	(0.252)	329107	300.000	282	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	308134	300.000	297	
4 Bromomethane	94	1.316	1.316	(0.295)	85778	300.000	197	
5 Chloroethane	64	1.363	1.363	(0.306)	97445	300.000	187	
6 Trichlorofluoromethane	101	1.488	1.488	(0.334)	396350	300.000	247	
7 Diethyl ether	74	1.629	1.629	(0.365)	133811	300.000	333	
8 1,2-dichlorotrifluoroethane	67	1.645	1.645	(0.369)	316928	300.000	326	
9 Acrolein	56	1.708	1.708	(0.383)	477970	6000.00	6440	
10 1,1,2trichlorotrifluoroethane	101	1.755	1.755	(0.394)	317479	300.000	335	
11 1,1-Dichloroethene	96	1.760	1.760	(0.395)	266980	300.000	344	
12 Acetone	43	1.781	1.781	(0.400)	239391	1500.00	1380	
13 Iodomethane	142	1.860	1.860	(0.417)	671402	600.000	588	
14 Carbon Disulfide	76	1.912	1.912	(0.429)	832717	300.000	311	
15 Methyl Acetate	43	1.959	1.959	(0.439)	159913	300.000	306	
16 Acetonitrile	39	1.975	1.975	(0.443)	387023	300.000	268	
17 allyl chloride	41	1.975	1.975	(0.443)	552277	600.000	581	
18 Methylene Chloride	84	2.053	2.053	(0.461)	278160	300.000	314	
19 tert-Butyl Alcohol	59	2.111	2.111	(0.473)	44996	600.000	701(QM)	NI
20 Acrylonitrile	53	2.200	2.200	(0.493)	253020	1200.00	1350	
21 Methyl-tert-butyl ether	73	2.231	2.231	(0.500)	725801	300.000	322	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
22 1,2-Dichloroethene (trans)	96	2.241	2.241	(0.503)	281057	300.000	340	
23 n-Hexane	57	2.435	2.435	(0.546)	369323	300.000	333	
24 Vinyl Acetate	43	2.560	2.560	(0.574)	1519900	1200.00	1320	
25 1,1-Dichloroethane	63	2.571	2.571	(0.577)	459973	300.000	326	
26 Chloroprene	53	2.628	2.628	(0.590)	331945	300.000	352	
27 2-Butanone	43	3.063	3.063	(0.687)	305561	1500.00	1440	
28 1,2-Dichloroethene (cis)	96	3.083	3.083	(0.692)	307380	300.000	340	
29 2,2-Dichloropropane	77	3.083	3.083	(0.692)	425722	300.000	342	
30 Propionitrile	54	3.125	3.125	(0.701)	27887	300.000	376(M)	NI
31 Methacrylonitrile	41	3.282	3.282	(0.736)	106691	300.000	331	
32 Bromochloromethane	49	3.335	3.335	(0.748)	162611	300.000	306	
33 Tetrahydrofuran	42	3.350	3.350	(0.751)	58261	300.000	367	
34 Chloroform	83	3.450	3.450	(0.774)	521274	300.000	326	
35 1,1,1-Trichloroethane	97	3.638	3.638	(0.816)	473180	300.000	336	
$ 36 Dibromofluoromethane (S)	113	3.638	3.638	(0.816)	58672	50.0000	48.9	
37 Cyclohexane	56	3.727	3.727	(0.836)	367095	300.000	338	
38 n-butyl chloride	56	3.795	3.795	(0.851)	457492	300.000	337	
39 Carbon Tetrachloride	117	3.837	3.837	(0.860)	454118	300.000	344	
40 1,1-Dichloropropene	75	3.842	3.842	(0.862)	391694	300.000	337	
41 Benzene	78	4.082	4.082	(0.916)	1031383	300.000	301	
42 1,2-Dichloroethane	62	4.166	4.166	(0.934)	350348	300.000	332(M)	GT
43 Isobutyl alcohol	43	4.187	4.187	(0.939)	1474288	300.000	330(M)	GT
44 2,2,4-Trimethylpentane	57	4.245	4.245	(0.952)	880359	300.000	341	
* 45 Fluorobenzene (IS)	96	4.459	4.459	(1.000)	196449	50.0000		
46 Trichloroethene	95	4.893	4.893	(1.097)	307453	300.000	340	
47 Methylcyclohexane	55	5.155	5.155	(1.156)	318598	300.000	332	
48 1,2-Dichloropropane	63	5.197	5.197	(1.165)	259718	300.000	334	
49 Dibromomethane	93	5.291	5.291	(1.186)	187398	300.000	326	
50 Methyl methacrylate	69	5.291	5.291	(1.186)	165682	300.000	354	
51 1,4-Dioxane	88	5.291	5.291	(1.186)	46971	6000.00	5970	
52 Bromodichloromethane	83	5.505	5.505	(1.235)	413836	300.000	336	
53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	303767	600.000	693	
54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	476905	300.000	330	
55 4-Methyl-2-Pentanone	43	6.154	6.154	(0.817)	921987	1500.00	1520	
$ 56 Toluene-d8 (S)	98	6.263	6.263	(0.832)	208176	50.0000	48.6	
57 Toluene	91	6.337	6.337	(0.842)	1212840	300.000	303	
58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	431641	300.000	336	
59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	322360	300.000	331	
60 1,1,2-Trichloroethane	83	6.776	6.776	(0.900)	207900	300.000	322	
61 Tetrachloroethene	166	6.828	6.828	(0.907)	390346	300.000	325	
62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	400291	300.000	317	
63 2-Hexanone	43	6.964	6.964	(0.925)	656565	1500.00	1510	
64 Dibromochloromethane	129	7.090	7.090	(0.942)	367184	300.000	318	
65 1,2-Dibromoethane	107	7.174	7.174	(0.953)	286532	300.000	327	
* 66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	167747	50.0000		
67 Chlorobenzene	112	7.555	7.555	(1.003)	906111	300.000	307	
68 1,1,1,2-Tetrachloroethane	131	7.629	7.629	(1.013)	352139	300.000	331	
69 Ethylbenzene	106	7.634	7.634	(1.014)	490366	300.000	309	
70 m&p-Xylene	106	7.728	7.728	(1.026)	1143868	600.000	583	
71 o-Xylene	106	7.984	7.984	(1.060)	570243	300.000	296	
72 Styrene	104	8.000	8.000	(1.063)	1003318	300.000	314	
73 Bromoform	173	8.125	8.125	(0.901)	265789	300.000	341	
74 Isopropylbenzene	105	8.225	8.225	(1.092)	1487168	300.000	289	
$ 75 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	81485	50.0000	51.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
76 Bromobenzene	77	8.418	8.418	(1.118)	533169	300.000	295	
77 1,1,2,2-Tetrachloroethane	83	8.429	8.429	(0.935)	334834	300.000	310	
78 trans-1,4-Dichloro-2-butene	53	8.444	8.444	(1.122)	72377	300.000	332	
79 1,2,3-Trichloropropane	110	8.460	8.460	(0.939)	100614	300.000	331	
80 n-Propylbenzene	91	8.486	8.486	(0.941)	1687338	300.000	308	
81 2-Chlorotoluene	91	8.539	8.539	(0.947)	993085	300.000	313	
82 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	1269251	300.000	309	
83 4-Chlorotoluene	126	8.612	8.612	(0.955)	397632	300.000	303	
84 tert-Butylbenzene	119	8.774	8.774	(0.973)	1166621	300.000	318	
85 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	1264262	300.000	297	
86 sec-Butylbenzene	105	8.900	8.900	(0.987)	1653926	300.000	288	
87 1,3-Dichlorobenzene	146	8.973	8.973	(0.995)	775414	300.000	303	
88 p-Isopropyltoluene	119	8.983	8.983	(0.997)	1432365	300.000	304	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	97983	50.0000	(Q)	
90 1,4-Dichlorobenzene	146	9.030	9.030	(1.002)	804368	300.000	302	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	1275097	300.000	304	
92 1,2-Dichlorobenzene	146	9.219	9.219	(1.023)	745991	300.000	300	
93 1,2-Dibromo-3-chloropropane	155	9.627	9.627	(1.068)	68845	300.000	327	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	562660	300.000	300	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	345581	300.000	312	
96 Naphthalene	128	10.191	10.191	(1.131)	1219785	300.000	285	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	523098	300.000	297	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	669211	300.000	325	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	585872	300.000	313	
148 Ethyl Acetate	88	3.110	3.110	(0.697)	73591	2400.00	2790(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b08cal8.d

Date : 04-JAN-2017 19:17

Client ID: 8260-CAL8,139203:0

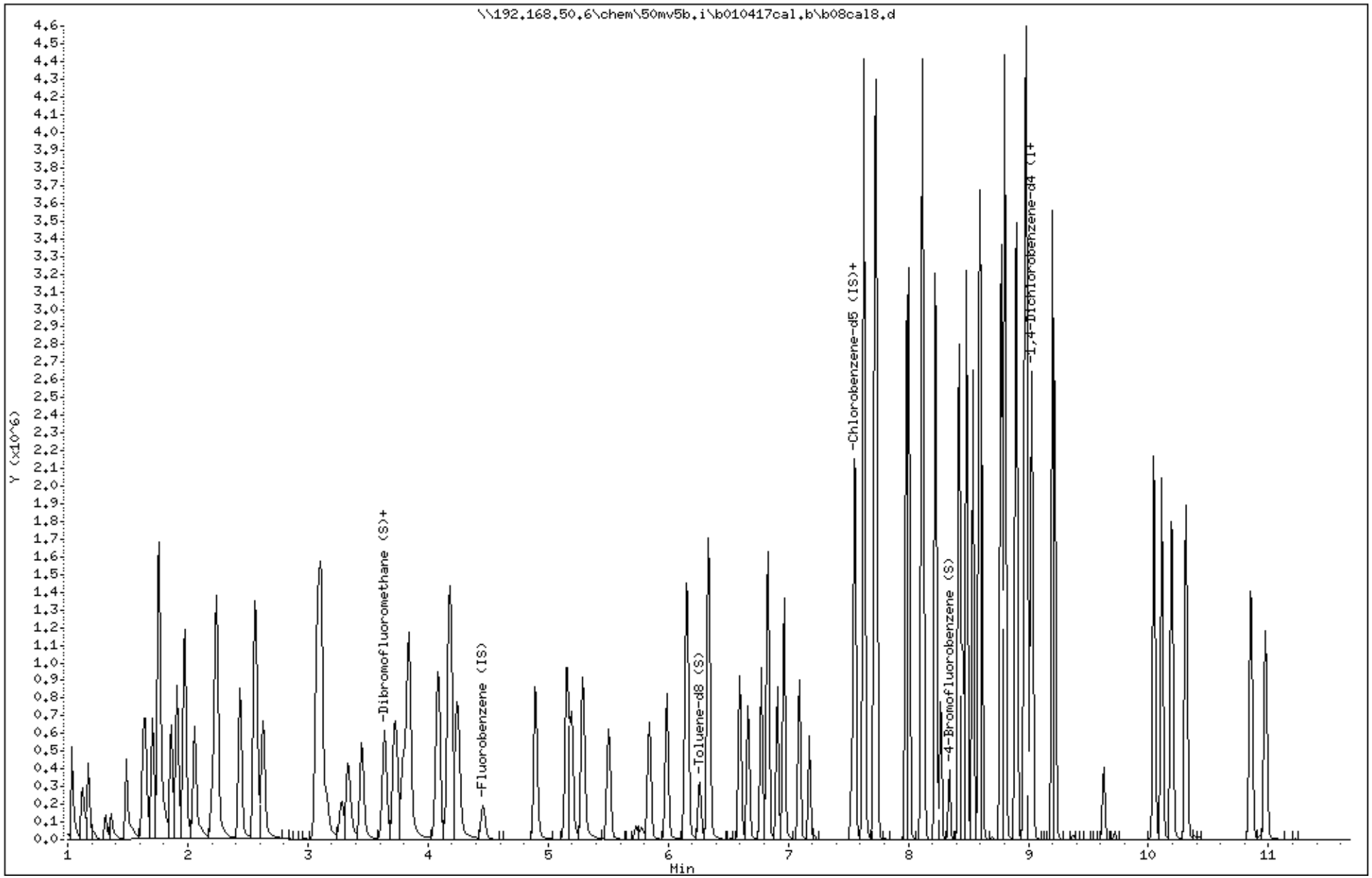
Instrument: 50mv5b.i

Sample Info: 8260-CAL8,139203:0

Operator: TMW

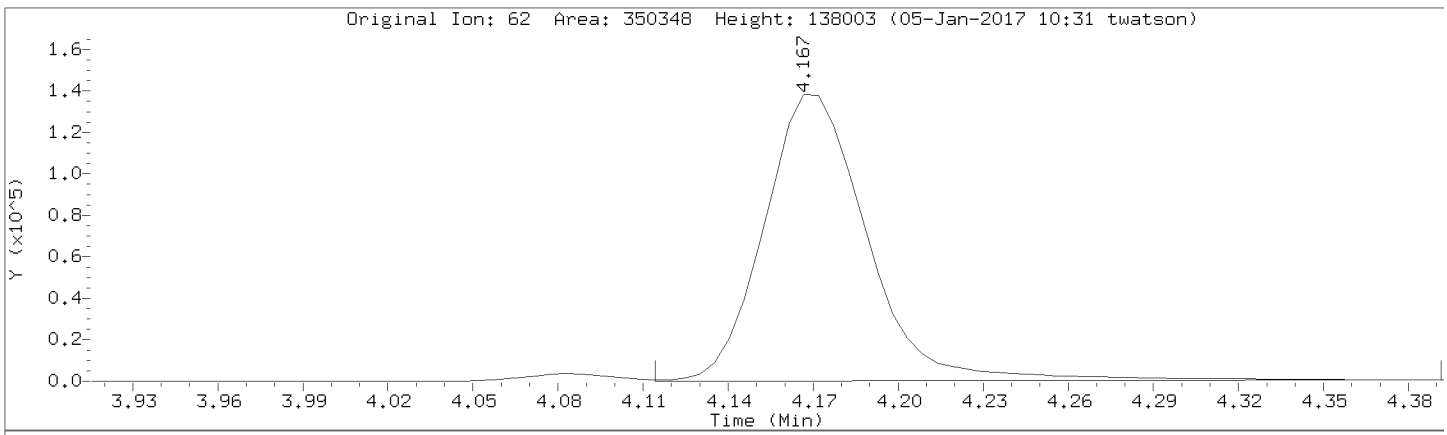
Column phase: DB-624

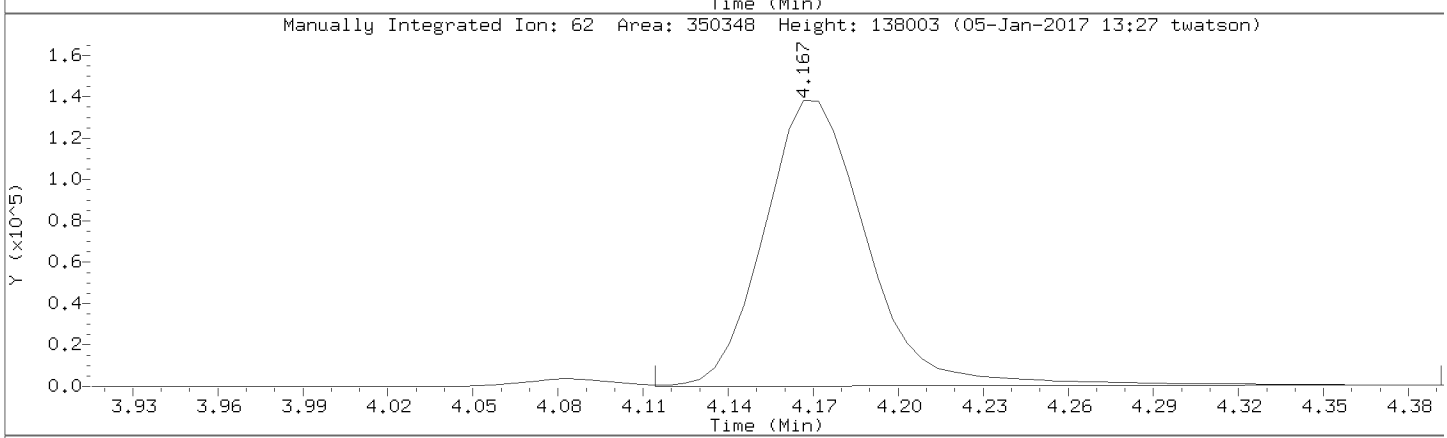
Column diameter: 0.18

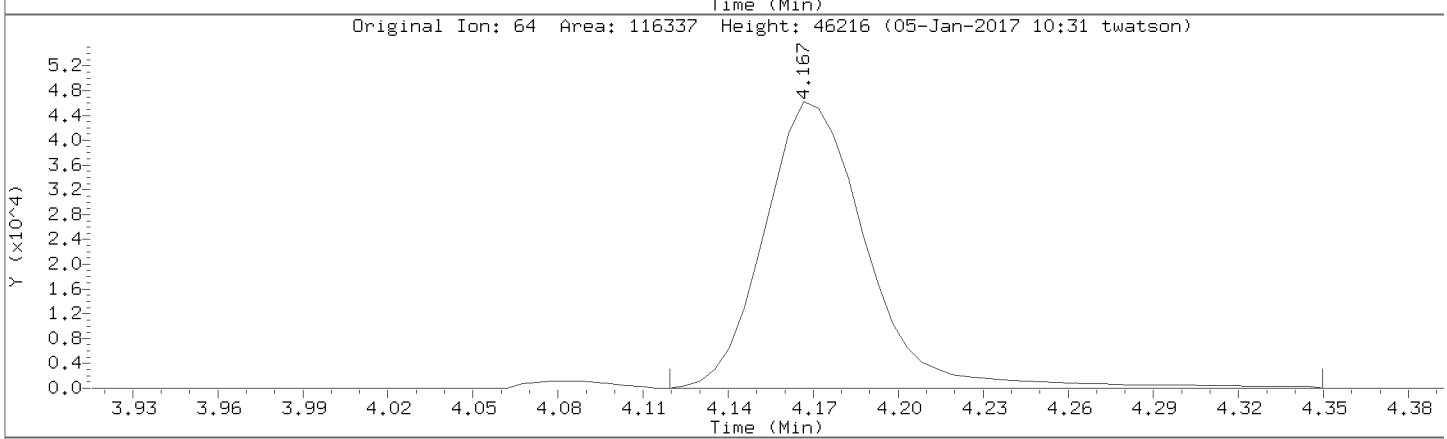


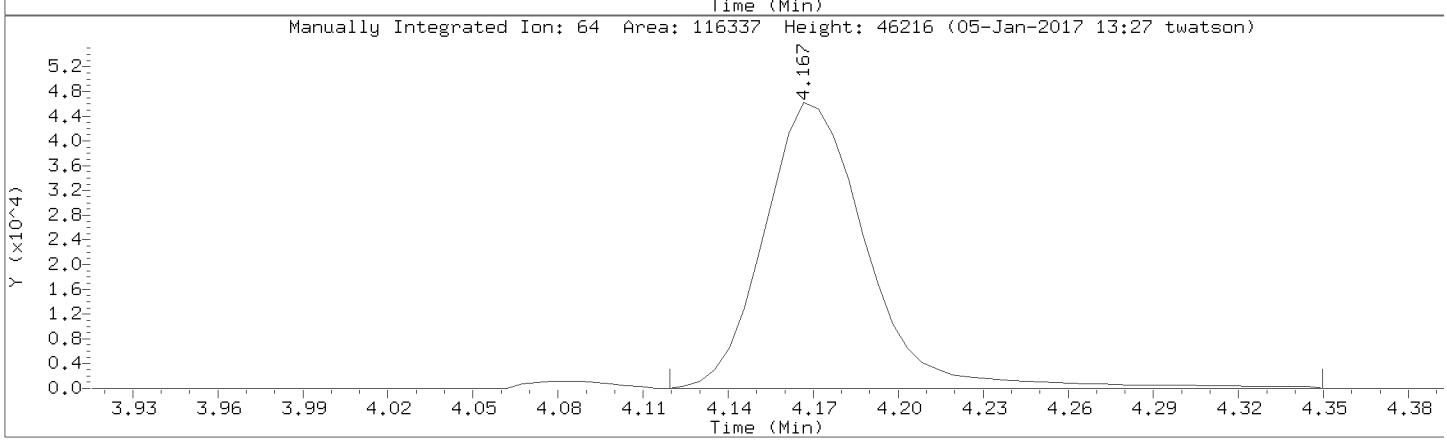
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b08cal8.d
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0

Compound: 1,2-Dichloroethane Review Code: GT
CAS Number: 107-06-2









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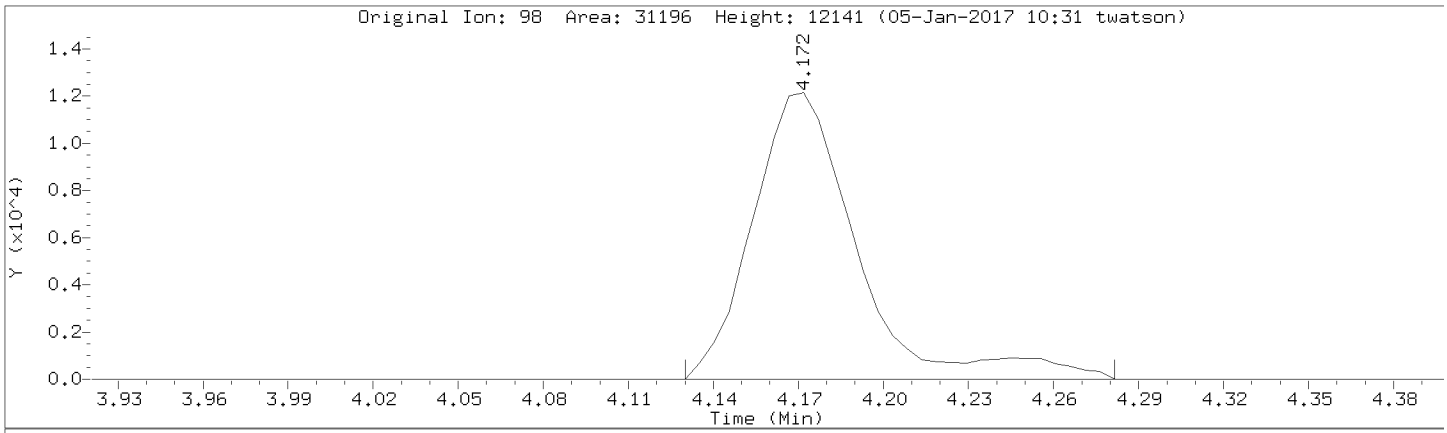
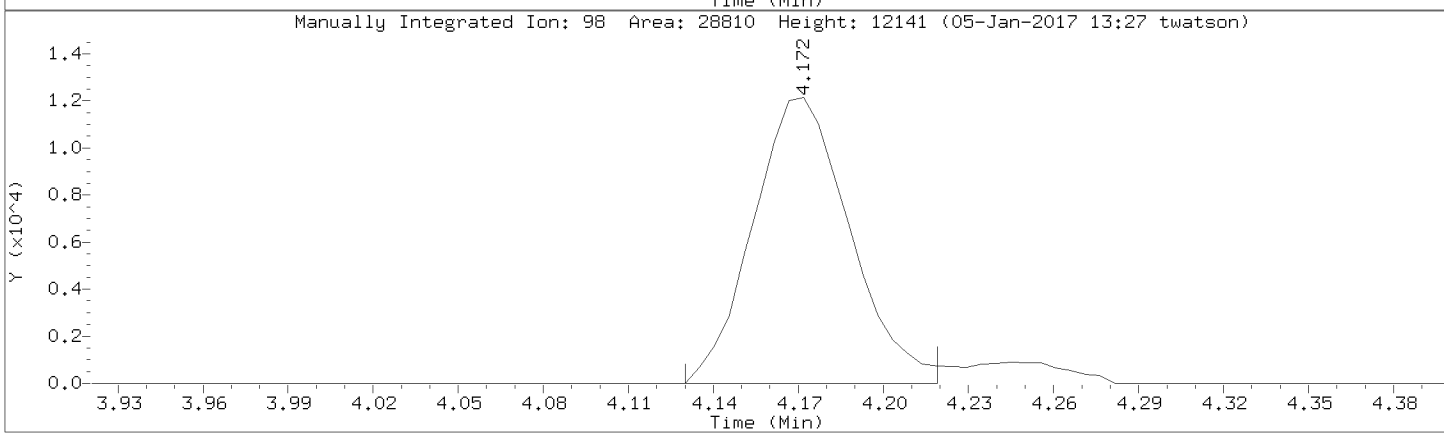
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0





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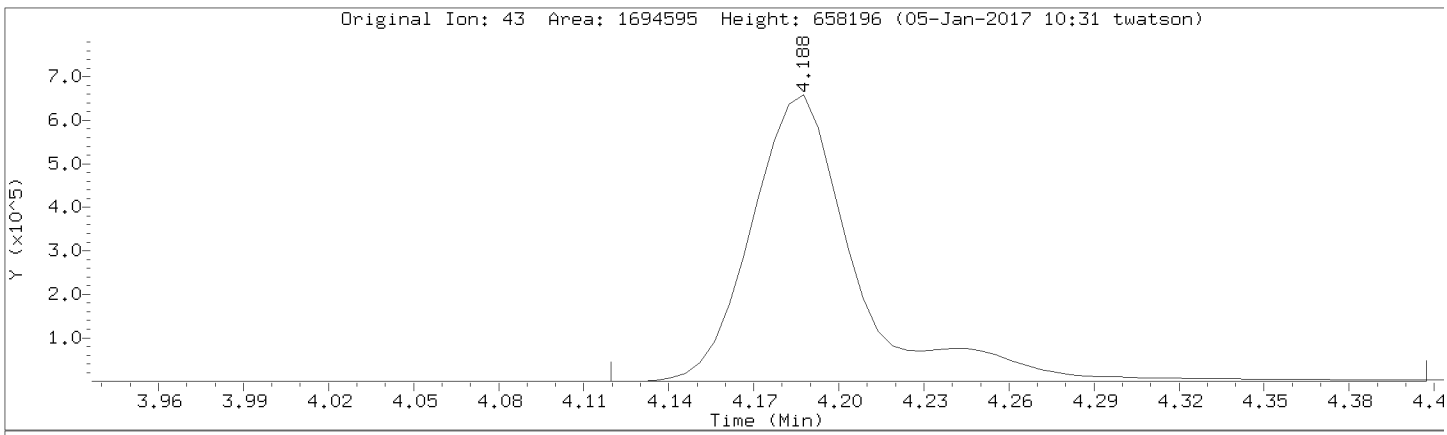
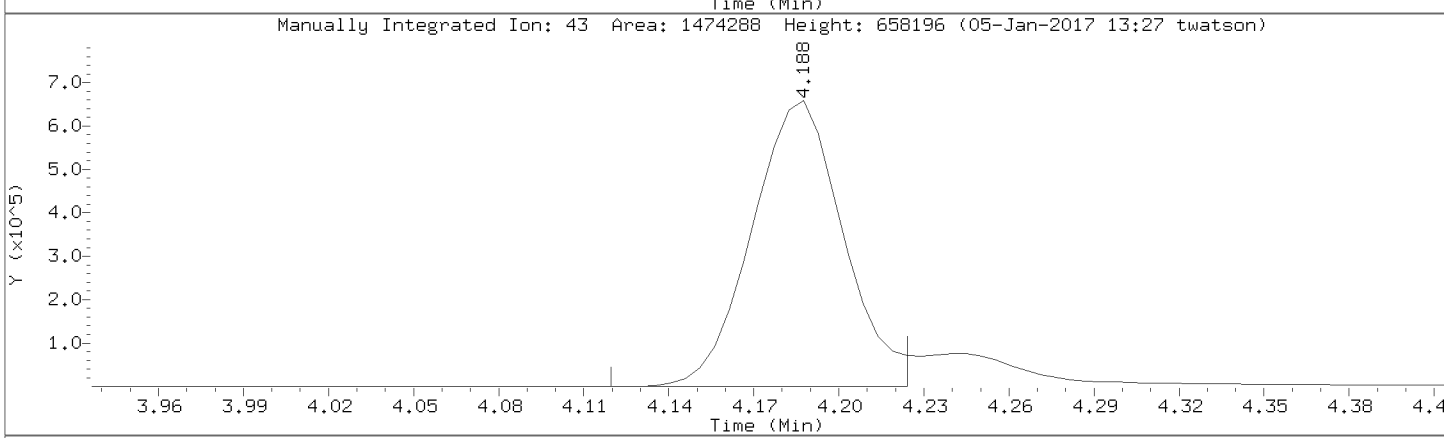
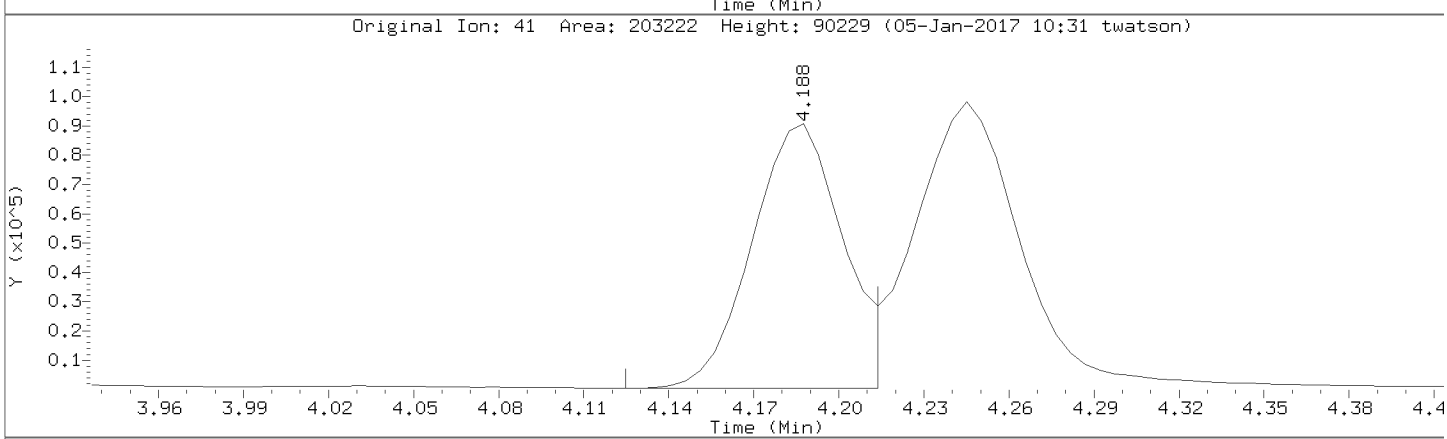
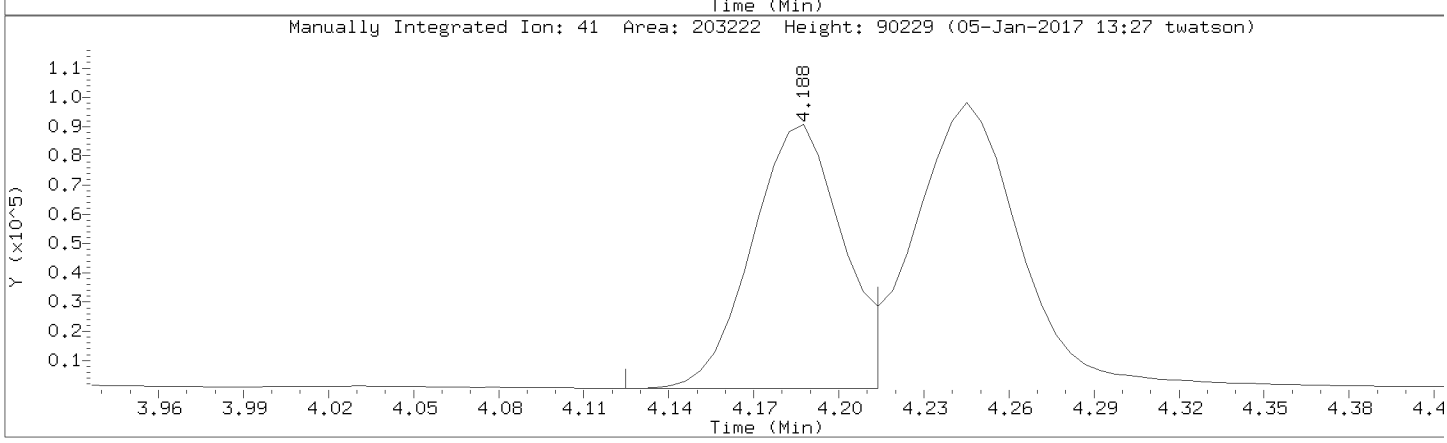
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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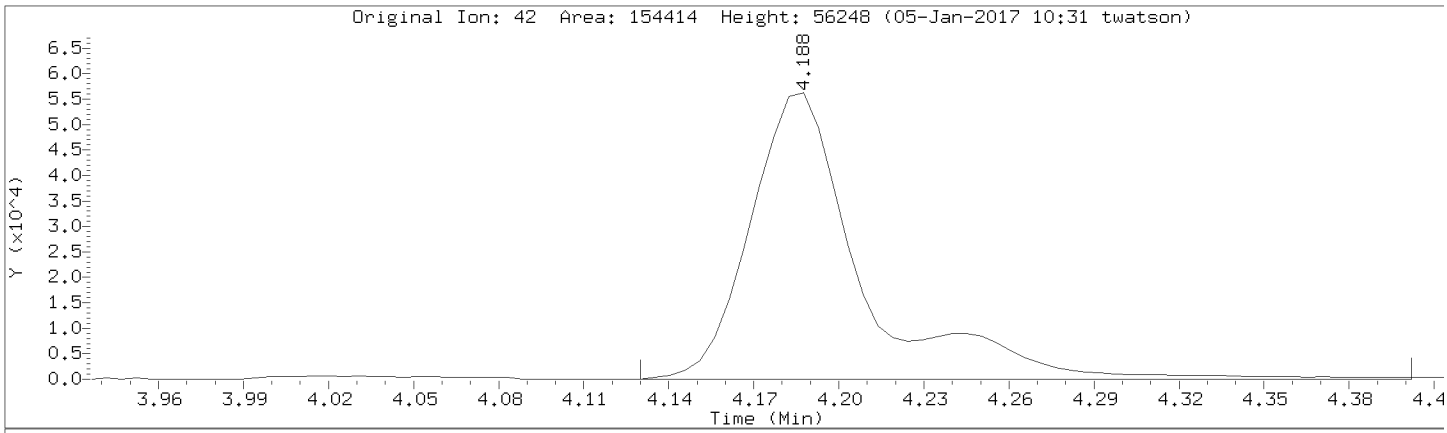
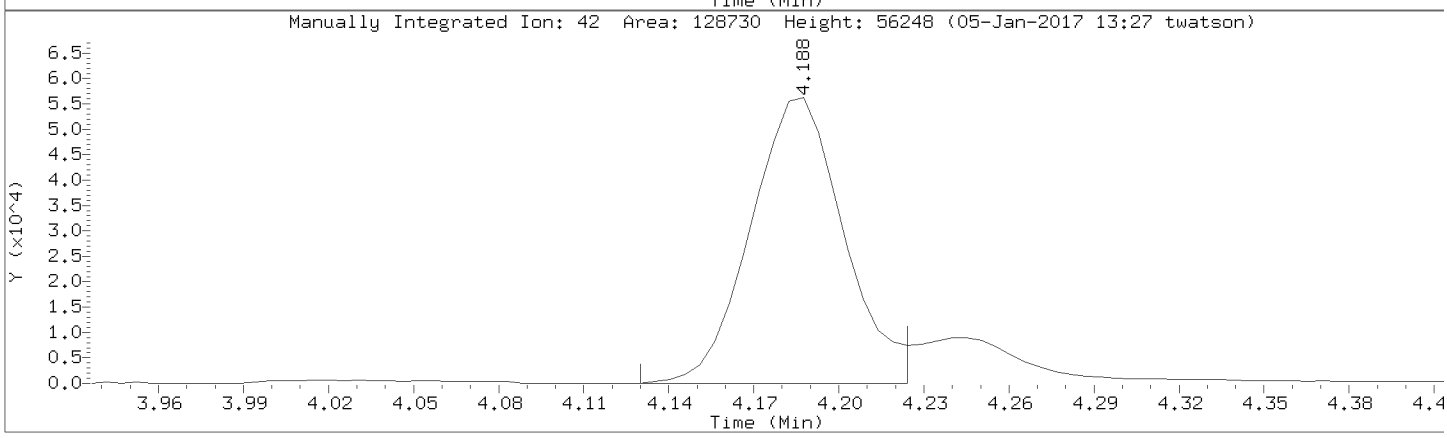
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0





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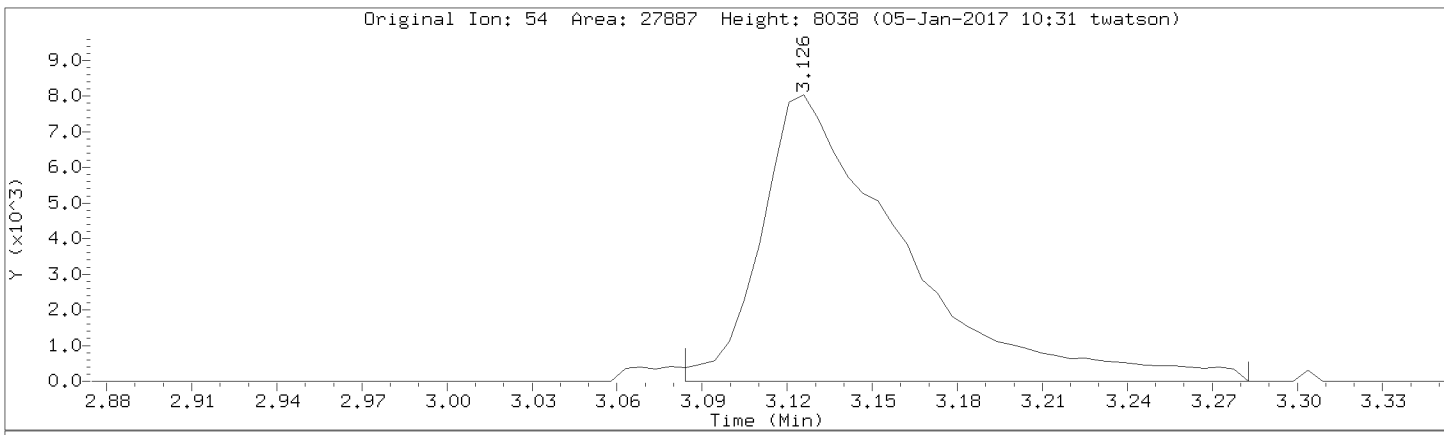
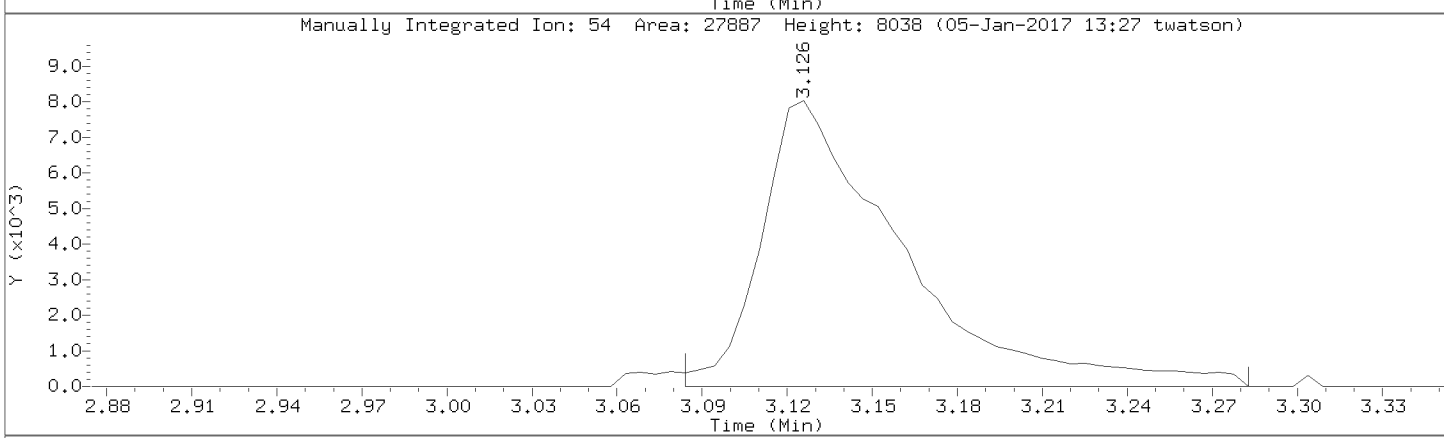
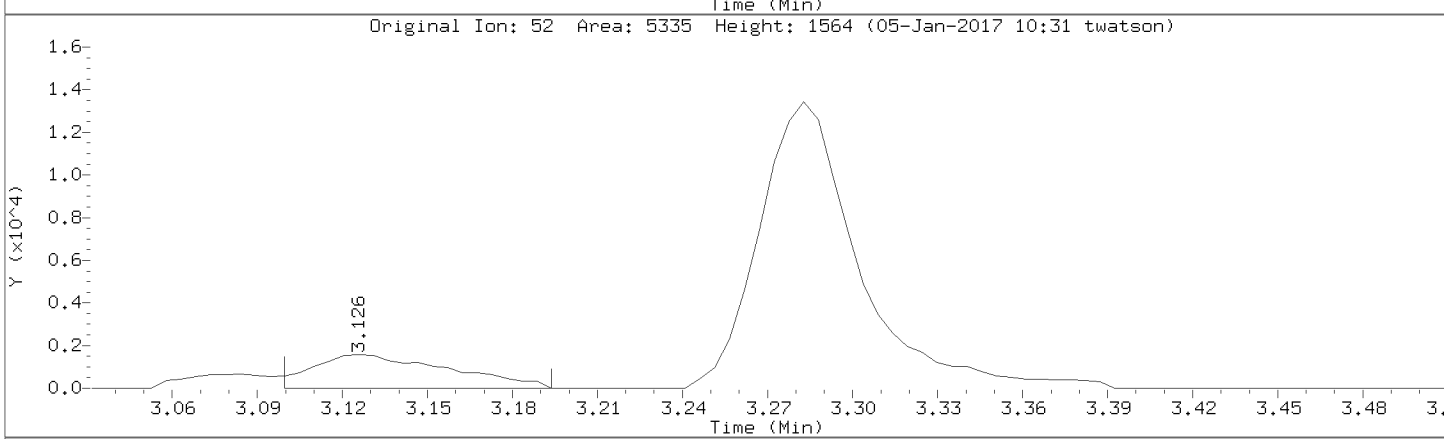
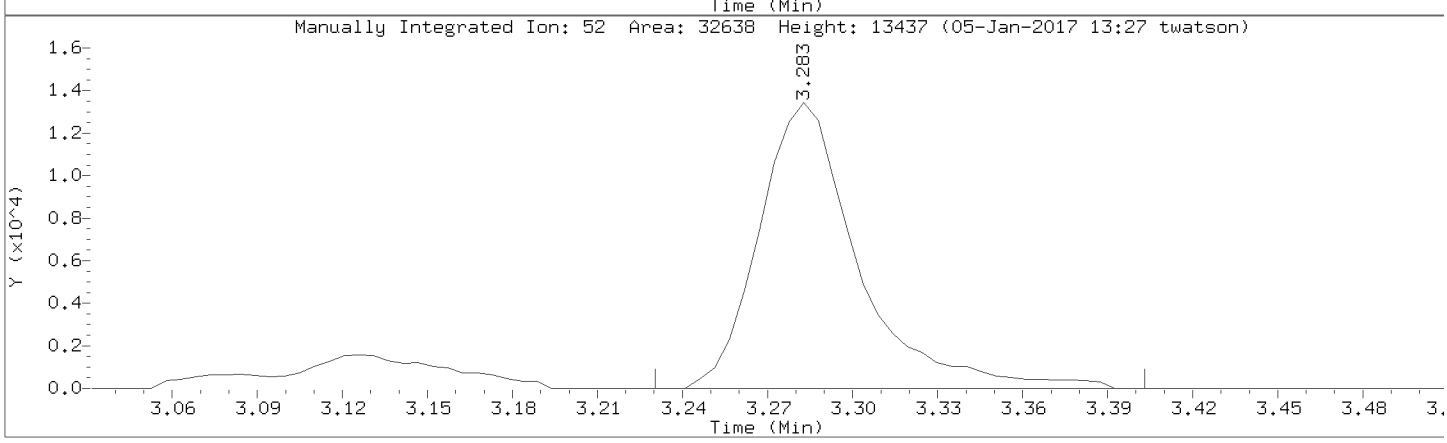
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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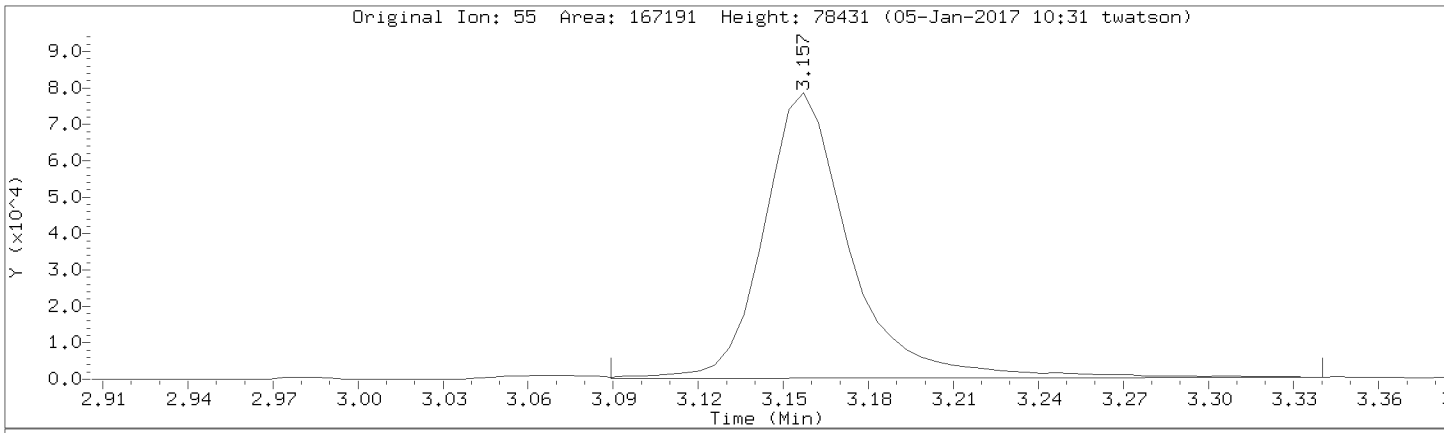
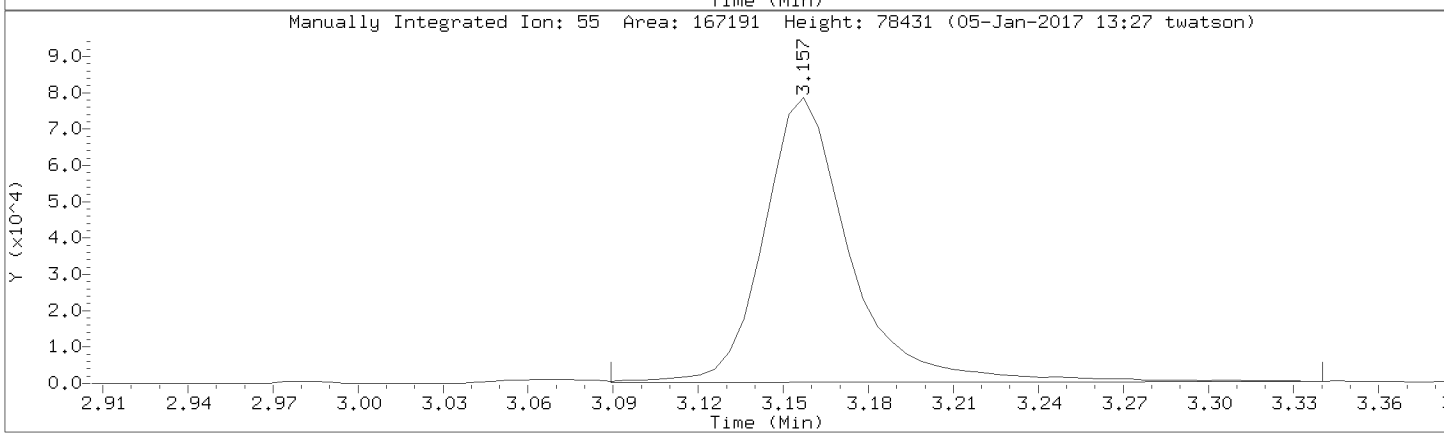
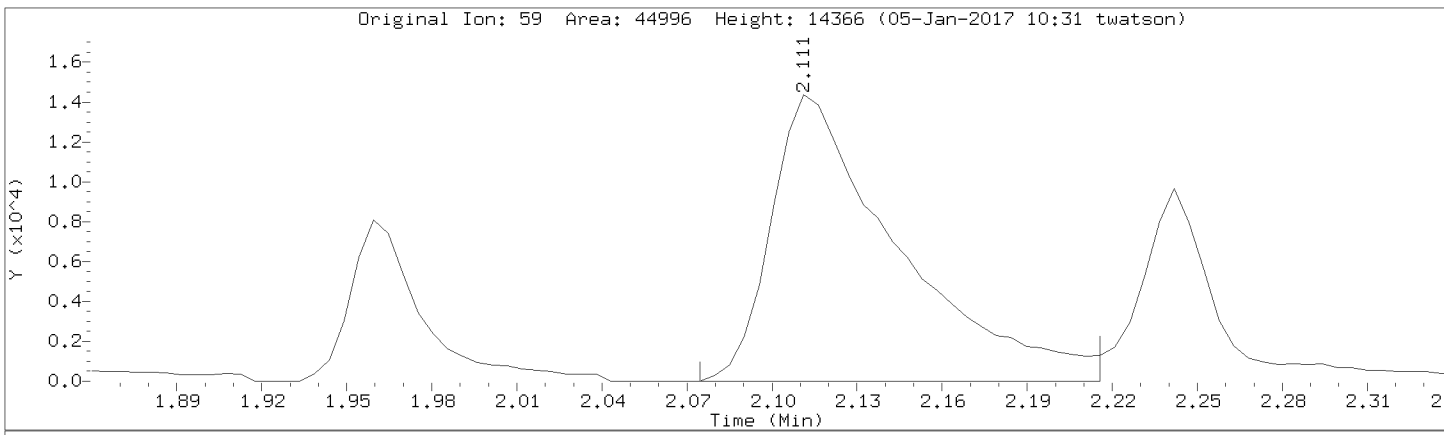
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0

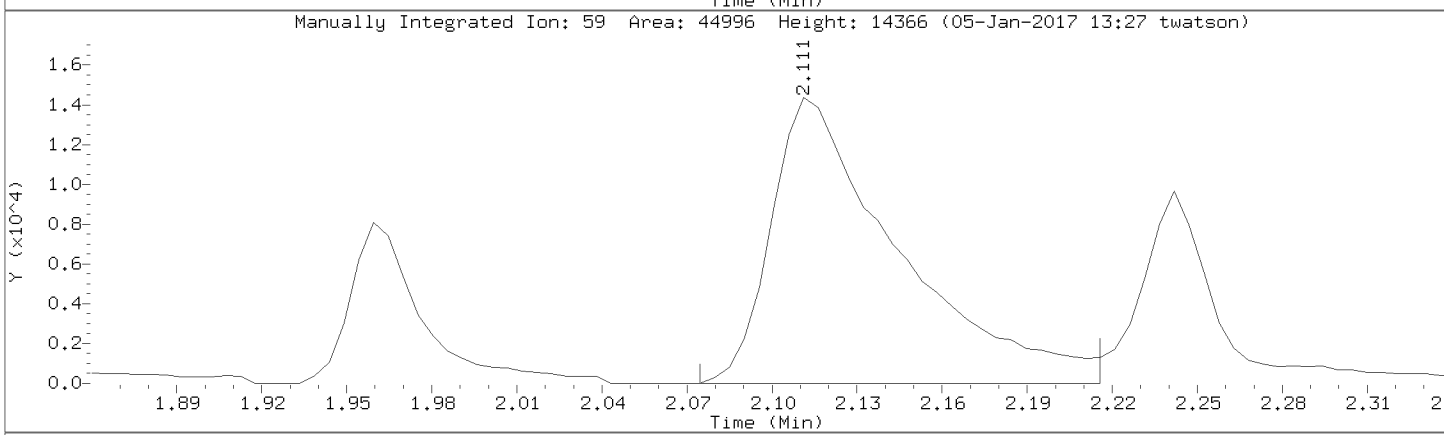


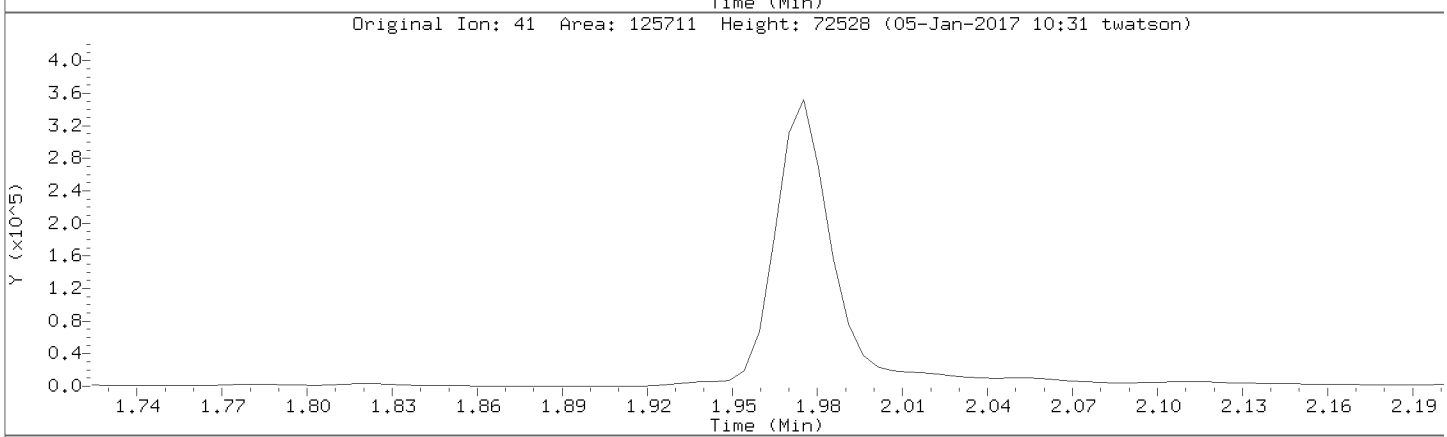


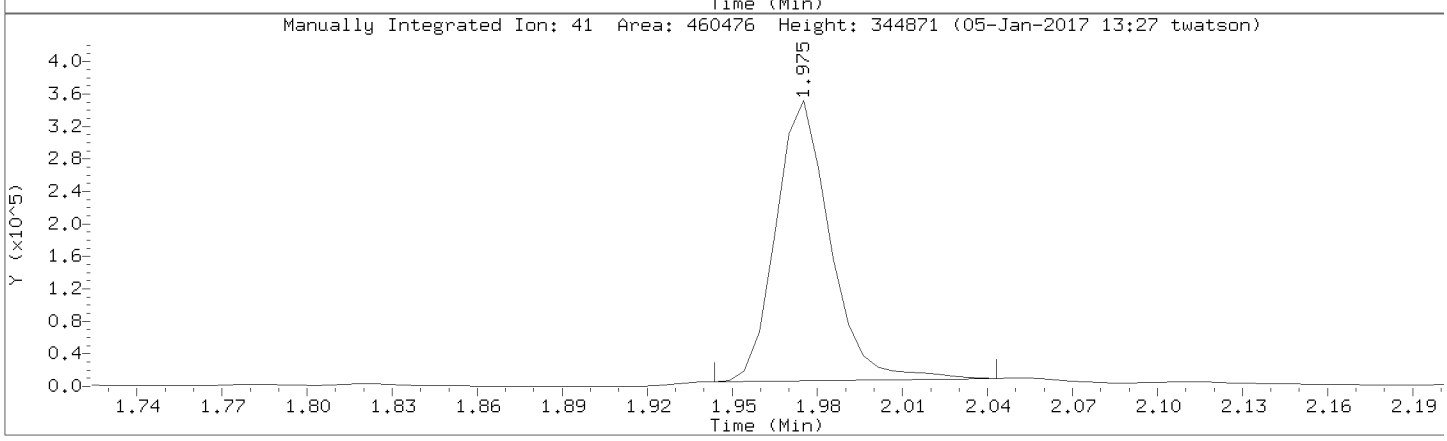
Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b08cal8.d
Injection Date: 04-JAN-2017 19:17
Instrument: 50mv5b.i
Lab Sample ID: 8260-CAL8,139203:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0









SAMPLE NO.

10902241CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/18/2017 Time: 13:16

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011817.B\A02LCSSCCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.07136	0.08300	0.0100	16.3098	20.0000
Acrolein	Averaged	0.02449	0.03957	0.0000	61.6217	20.0000
Acrylonitrile	Averaged	0.08958	0.09340	0.0000	4.2661	20.0000
Benzene	Averaged	1.05377	0.95452	0.5000	-9.4190	20.0000
Bromobenzene	Averaged	0.73599	0.66849	0.0000	-9.1705	20.0000
Bromochloromethane	Averaged	0.24002	0.26840	0.1000	11.8228	20.0000
Bromodichloromethane	Averaged	0.36411	0.34512	0.2000	-5.2164	20.0000
Bromoform	Averaged	0.40768	0.38329	0.1000	-5.9836	20.0000
Bromomethane	Linear	50	40.08273	0.1000	-19.8345	20.0000
2-Butanone (MEK)	Averaged	0.09704	0.15705	0.0100	61.8318	20.0000
n-Butylbenzene	Averaged	2.86027	2.81019	0.0000	-1.7510	20.0000
sec-Butylbenzene	Averaged	3.67013	3.30587	0.0000	-9.9249	20.0000
tert-Butylbenzene	Averaged	2.29537	2.11353	0.0000	-7.9217	20.0000
Carbon disulfide	Averaged	0.75708	0.75583	0.1000	-0.1647	20.0000
Carbon tetrachloride	Averaged	0.32209	0.32273	0.1000	0.2007	20.0000
Chlorobenzene	Averaged	0.98400	0.91952	0.5000	-6.5521	20.0000
Chloroethane	Averaged	0.11017	0.11627	0.1000	5.5379	20.0000
Chloroform	Averaged	0.45475	0.42637	0.2000	-6.2415	20.0000
Chloromethane	Averaged	0.33377	0.32064	0.1000	-3.9336	20.0000
2-Chlorotoluene	Averaged	2.18425	2.03174	0.0000	-6.9825	20.0000
4-Chlorotoluene	Averaged	0.76167	0.70203	0.0000	-7.8305	20.0000
Dibromochloromethane	Averaged	0.34048	0.33545	0.1000	-1.4774	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.28520	0.28575	0.1000	0.1948	20.0000
Dibromomethane	Averaged	0.15201	0.15224	0.0000	0.1506	20.0000
1,2-Dichlorobenzene	Averaged	1.46489	1.35216	0.4000	-7.6956	20.0000
1,3-Dichlorobenzene	Averaged	1.49795	1.38743	0.6000	-7.3785	20.0000
1,4-Dichlorobenzene	Averaged	1.52477	1.43311	0.5000	-6.0114	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11796	0.50763	0.0000	330.3485	20.0000
Dichlorodifluoromethane	Averaged	0.22099	0.18031	0.1000	-18.4052	20.0000
1,1-Dichloroethane	Averaged	0.48159	0.48856	0.2000	1.4479	20.0000
1,2-Dichloroethane	Averaged	0.33909	0.33310	0.1000	-1.7666	20.0000
1,1-Dichloroethene	Averaged	0.21162	0.19371	0.1000	-8.4620	20.0000
cis-1,2-Dichloroethene	Averaged	0.25563	0.24530	0.1000	-4.0434	20.0000
trans-1,2-Dichloroethene	Averaged	0.23011	0.22406	0.1000	-2.6285	20.0000
1,2-Dichloropropane	Averaged	0.29151	0.30455	0.1000	4.4753	20.0000
1,3-Dichloropropane	Averaged	0.47715	0.48778	0.0000	2.2262	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10902241CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/18/2017 Time: 13:16

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011817.B\A02LCSSCCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.35548	0.36731	0.0000	3.3294	20.0000
1,1-Dichloropropene	Averaged	0.34997	0.34520	0.0000	-1.3644	20.0000
cis-1,3-Dichloropropene	Averaged	0.53953	0.56157	0.2000	4.0849	20.0000
trans-1,3-Dichloropropene	Averaged	0.46356	0.50017	0.1000	7.8987	20.0000
Ethylbenzene	Averaged	0.54992	0.51316	0.1000	-6.6848	20.0000
Ethyl methacrylate	Averaged	0.37139	1.64192	0.0000	342.0987	20.0000
Hexachloro-1,3-butadiene	Averaged	0.68892	0.58120	0.0000	-15.6370	20.0000
n-Hexane	Averaged	0.45232	0.45494	0.0000	0.5784	20.0000
2-Hexanone	Averaged	0.26312	0.31509	0.0500	19.7513	20.0000
Iodomethane	Averaged	0.21018	0.21120	0.0000	0.4829	20.0000
Isopropylbenzene (Cumene)	Averaged	1.85973	1.70221	0.1000	-8.4699	20.0000
p-Isopropyltoluene	Averaged	2.92474	2.79096	0.0000	-4.5739	20.0000
Methylene Chloride	Averaged	0.23676	0.22510	0.1000	-4.9225	20.0000
1-Methylnaphthalene	Averaged	1.05853	1.03543	0.0000	-2.1821	20.0000
2-Methylnaphthalene	Averaged	1.17660	0.95432	0.0000	-18.8918	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.35776	0.42465	0.0500	18.6982	20.0000
Methyl-tert-butyl ether	Averaged	0.64432	0.61947	0.1000	-3.8578	20.0000
Naphthalene	Averaged	2.58986	2.25970	0.0000	-12.7482	20.0000
n-Propylbenzene	Averaged	3.69846	3.60757	0.0000	-2.4573	20.0000
Styrene	Averaged	1.18166	1.07708	0.3000	-8.8504	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.36023	0.35229	0.0000	-2.2026	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.70331	0.68670	0.3000	-2.3618	20.0000
Tetrachloroethene	Averaged	0.38803	0.36534	0.2000	-5.8461	20.0000
Toluene	Averaged	1.44879	1.38533	0.4000	-4.3799	20.0000
1,2,3-Trichlorobenzene	Averaged	1.14278	0.99532	0.0000	-12.9033	20.0000
1,2,4-Trichlorobenzene	Averaged	1.15255	1.09037	0.2000	-5.3950	20.0000
1,1,1-Trichloroethane	Averaged	0.38009	0.36832	0.1000	-3.0975	20.0000
1,1,2-Trichloroethane	Averaged	0.23353	0.23866	0.1000	2.2004	20.0000
Trichloroethene	Averaged	0.26639	0.25268	0.2000	-5.1468	20.0000
Trichlorofluoromethane	Averaged	0.29418	0.30346	0.1000	3.1552	20.0000
1,2,3-Trichloropropane	Averaged	0.16979	0.18325	0.0000	7.9247	20.0000
1,2,4-Trimethylbenzene	Averaged	2.74790	2.57525	0.0000	-6.2831	20.0000
1,3,5-Trimethylbenzene	Averaged	2.62979	2.48071	0.0000	-5.6689	20.0000
Vinyl acetate	Averaged	0.54724	0.54025	0.0000	-1.2772	20.0000
Vinyl chloride	Averaged	0.25780	0.26458	0.1000	2.6320	20.0000
m&p-Xylene	Averaged	0.64966	0.63958	0.1000	-1.5508	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10902241CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/18/2017 Time: 13:16

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011817.B\A02LCSSCCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.67948	0.61709	0.3000	-9.1817	20.0000
4-Bromofluorobenzene (S)	Averaged	0.50893	0.51925	0.1000	2.0260	20.0000
Dibromofluoromethane (S)	Averaged	0.25047	0.24335	0.1000	-2.8431	20.0000
Toluene-d8 (S)	Averaged	1.21325	1.24685	0.1000	2.7698	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10909991CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/19/2017 Time: 15:01

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011917.B\A01CCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.07136	0.07842	0.0100	9.8963	20.0000
Acrolein	Averaged	0.02449	0.02670	0.0000	9.0295	20.0000
Acrylonitrile	Averaged	0.08958	0.09816	0.0000	9.5732	20.0000
Benzene	Averaged	1.05377	1.07369	0.5000	1.8900	20.0000
Bromobenzene	Averaged	0.73599	0.73833	0.0000	0.3184	20.0000
Bromochloromethane	Averaged	0.24002	0.29277	0.1000	21.9758	20.0000
Bromodichloromethane	Averaged	0.36411	0.36487	0.2000	0.2069	20.0000
Bromoform	Averaged	0.40768	0.41295	0.1000	1.2912	20.0000
Bromomethane	Linear	50	45.61855	0.1000	-8.7629	20.0000
2-Butanone (MEK)	Averaged	0.09704	0.12065	0.0100	24.3267	20.0000
n-Butylbenzene	Averaged	2.86027	3.12300	0.0000	9.1854	20.0000
sec-Butylbenzene	Averaged	3.67013	3.69379	0.0000	0.6447	20.0000
tert-Butylbenzene	Averaged	2.29537	2.33640	0.0000	1.7877	20.0000
Carbon disulfide	Averaged	0.75708	0.84264	0.1000	11.3007	20.0000
Carbon tetrachloride	Averaged	0.32209	0.35397	0.1000	9.8991	20.0000
Chlorobenzene	Averaged	0.98400	0.99258	0.5000	0.8722	20.0000
Chloroethane	Averaged	0.11017	0.11387	0.1000	3.3611	20.0000
Chloroform	Averaged	0.45475	0.46610	0.2000	2.4967	20.0000
Chloromethane	Averaged	0.33377	0.43562	0.1000	30.5150	20.0000
2-Chlorotoluene	Averaged	2.18425	2.23985	0.0000	2.5454	20.0000
4-Chlorotoluene	Averaged	0.76167	0.77152	0.0000	1.2925	20.0000
Dibromochloromethane	Averaged	0.34048	0.34865	0.1000	2.3999	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.28520	0.30055	0.1000	5.3852	20.0000
Dibromomethane	Averaged	0.15201	0.15774	0.0000	3.7671	20.0000
1,2-Dichlorobenzene	Averaged	1.46489	1.45458	0.4000	-0.7036	20.0000
1,3-Dichlorobenzene	Averaged	1.49795	1.54123	0.6000	2.8888	20.0000
1,4-Dichlorobenzene	Averaged	1.52477	1.56941	0.5000	2.9281	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11796	0.13854	0.0000	17.4484	20.0000
Dichlorodifluoromethane	Averaged	0.22099	0.25452	0.1000	15.1722	20.0000
1,1-Dichloroethane	Averaged	0.48159	0.54678	0.2000	13.5362	20.0000
1,2-Dichloroethane	Averaged	0.33909	0.35786	0.1000	5.5343	20.0000
1,1-Dichloroethene	Averaged	0.21162	0.23637	0.1000	11.6972	20.0000
cis-1,2-Dichloroethene	Averaged	0.25563	0.27249	0.1000	6.5952	20.0000
trans-1,2-Dichloroethene	Averaged	0.23011	0.25097	0.1000	9.0639	20.0000
1,2-Dichloropropane	Averaged	0.29151	0.31777	0.1000	9.0081	20.0000
1,3-Dichloropropane	Averaged	0.47715	0.51020	0.0000	6.9269	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:23

SAMPLE NO.

10909991CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/19/2017 Time: 15:01

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011917.B\A01CCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.35548	0.40769	0.0000	14.6876	20.0000
1,1-Dichloropropene	Averaged	0.34997	0.39055	0.0000	11.5940	20.0000
cis-1,3-Dichloropropene	Averaged	0.53953	0.60096	0.2000	11.3844	20.0000
trans-1,3-Dichloropropene	Averaged	0.46356	0.52557	0.1000	13.3774	20.0000
Ethylbenzene	Averaged	0.54992	0.55006	0.1000	0.0257	20.0000
Ethyl methacrylate	Averaged	0.37139	0.41066	0.0000	10.5724	20.0000
Hexachloro-1,3-butadiene	Averaged	0.68892	0.67320	0.0000	-2.2820	20.0000
n-Hexane	Averaged	0.45232	0.56308	0.0000	24.4864	20.0000
2-Hexanone	Averaged	0.26312	0.30750	0.0500	16.8667	20.0000
Iodomethane	Averaged	0.21018	0.25739	0.0000	22.4593	20.0000
Isopropylbenzene (Cumene)	Averaged	1.85973	1.85948	0.1000	-0.0135	20.0000
p-Isopropyltoluene	Averaged	2.92474	3.11904	0.0000	6.6435	20.0000
Methylene Chloride	Averaged	0.23676	0.25965	0.1000	9.6668	20.0000
1-Methylnaphthalene	Averaged	1.05853	0.98652	0.0000	-6.8028	20.0000
2-Methylnaphthalene	Averaged	1.17660	1.10030	0.0000	-6.4848	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.35776	0.41474	0.0500	15.9279	20.0000
Methyl-tert-butyl ether	Averaged	0.64432	0.63649	0.1000	-1.2158	20.0000
Naphthalene	Averaged	2.58986	2.40999	0.0000	-6.9454	20.0000
n-Propylbenzene	Averaged	3.69846	3.86215	0.0000	4.4260	20.0000
Styrene	Averaged	1.18166	1.16438	0.3000	-1.4623	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.36023	0.37105	0.0000	3.0039	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.70331	0.69606	0.3000	-1.0309	20.0000
Tetrachloroethene	Averaged	0.38803	0.41130	0.2000	5.9984	20.0000
Toluene	Averaged	1.44879	1.50477	0.4000	3.8643	20.0000
1,2,3-Trichlorobenzene	Averaged	1.14278	1.07176	0.0000	-6.2148	20.0000
1,2,4-Trichlorobenzene	Averaged	1.15255	1.18912	0.2000	3.1732	20.0000
1,1,1-Trichloroethane	Averaged	0.38009	0.41013	0.1000	7.9033	20.0000
1,1,2-Trichloroethane	Averaged	0.23353	0.25208	0.1000	7.9471	20.0000
Trichloroethene	Averaged	0.26639	0.28833	0.2000	8.2350	20.0000
Trichlorofluoromethane	Averaged	0.29418	0.29810	0.1000	1.3323	20.0000
1,2,3-Trichloropropane	Averaged	0.16979	0.17335	0.0000	2.0992	20.0000
1,2,4-Trimethylbenzene	Averaged	2.74790	2.80356	0.0000	2.0255	20.0000
1,3,5-Trimethylbenzene	Averaged	2.62979	2.68950	0.0000	2.2704	20.0000
Vinyl acetate	Averaged	0.54724	0.63857	0.0000	16.6896	20.0000
Vinyl chloride	Averaged	0.25780	0.36707	0.1000	42.3845	20.0000
m&p-Xylene	Averaged	0.64966	0.68080	0.1000	4.7925	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:23

SAMPLE NO.

10909991CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/19/2017 Time: 15:01

Instrument ID: 50MV5A GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: A011917.B\A01CCV.D
Init. Calib. Time(s): 12:52 17:14

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.67948	0.66643	0.3000	-1.9202	20.0000
4-Bromofluorobenzene (S)	Averaged	0.50893	0.53290	0.1000	4.7094	20.0000
Dibromofluoromethane (S)	Averaged	0.25047	0.24292	0.1000	-3.0141	20.0000
Toluene-d8 (S)	Averaged	1.21325	1.26798	0.1000	4.5116	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10915065CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/20/2017 Time: 13:34

Instrument ID: 50MV5B GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: B012017.B\B01CCV.D
Init. Calib. Time(s): 13:11 17:33

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.07175	0.06581	0.0100	-8.2842	20.0000
Acrolein	Averaged	0.02504	0.02924	0.0000	16.7622	20.0000
Acrylonitrile	Averaged	0.08802	0.08356	0.0000	-5.0627	20.0000
Benzene	Averaged	0.98136	0.85501	0.5000	-12.8753	20.0000
Bromobenzene	Averaged	0.72476	0.58677	0.0000	-19.0396	20.0000
Bromochloromethane	Averaged	0.24185	0.23789	0.0000	-1.6368	20.0000
Bromodichloromethane	Averaged	0.35006	0.29813	0.2000	-14.8356	20.0000
Bromoform	Averaged	0.40817	0.34908	0.1000	-14.4765	20.0000
Bromomethane	Averaged	0.09914	0.07788	0.1000	-21.4469	20.0000
2-Butanone (MEK)	Averaged	0.10574	0.09637	0.0100	-8.8545	20.0000
n-Butylbenzene	Averaged	2.69066	2.44965	0.0000	-8.9571	20.0000
sec-Butylbenzene	Averaged	3.44020	2.95885	0.0000	-13.9919	20.0000
tert-Butylbenzene	Averaged	2.20952	1.86353	0.0000	-15.6592	20.0000
Carbon disulfide	Averaged	0.75211	0.70996	0.1000	-5.6040	20.0000
Carbon tetrachloride	Averaged	0.29549	0.28090	0.1000	-4.9359	20.0000
Chlorobenzene	Averaged	0.93993	0.80849	0.5000	-13.9838	20.0000
Chloroethane	Averaged	0.11735	0.11472	0.1000	-2.2417	20.0000
Chloroform	Averaged	0.42876	0.38019	0.2000	-11.3286	20.0000
Chloromethane	Averaged	0.36179	0.25691	0.1000	-28.9893	20.0000
2-Chlorotoluene	Averaged	2.12412	1.81020	0.0000	-14.7786	20.0000
4-Chlorotoluene	Averaged	0.74178	0.62047	0.0000	-16.3551	20.0000
Dibromochloromethane	Averaged	0.32702	0.27904	0.1000	-14.6725	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.28336	0.23886	0.1000	-15.7022	20.0000
Dibromomethane	Averaged	0.14789	0.13007	0.0000	-12.0482	20.0000
1,2-Dichlorobenzene	Averaged	1.39775	1.17172	0.4000	-16.1710	20.0000
1,3-Dichlorobenzene	Averaged	1.45973	1.25039	0.6000	-14.3411	20.0000
1,4-Dichlorobenzene	Averaged	1.48315	1.27153	0.5000	-14.2683	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11428	0.11439	0.0000	0.0955	20.0000
Dichlorodifluoromethane	Averaged	0.22620	0.22990	0.1000	1.6381	20.0000
1,1-Dichloroethane	Averaged	0.45393	0.43151	0.2000	-4.9376	20.0000
1,2-Dichloroethane	Averaged	0.32497	0.29027	0.1000	-10.6776	20.0000
1,1-Dichloroethene	Averaged	0.19896	0.19127	0.1000	-3.8635	20.0000
cis-1,2-Dichloroethene	Averaged	0.24315	0.21649	0.1000	-10.9644	20.0000
trans-1,2-Dichloroethene	Averaged	0.21845	0.20105	0.1000	-7.9622	20.0000
1,2-Dichloropropane	Averaged	0.28342	0.25039	0.1000	-11.6559	20.0000
1,3-Dichloropropane	Averaged	0.45611	0.39757	0.0000	-12.8335	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10915065CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/20/2017 Time: 13:34

Instrument ID: 50MV5B GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: B012017.B\B01CCV.D
Init. Calib. Time(s): 13:11 17:33

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.33743	0.30978	0.0000	-8.1949	20.0000
1,1-Dichloropropene	Averaged	0.31922	0.31104	0.0000	-2.5623	20.0000
cis-1,3-Dichloropropene	Averaged	0.50066	0.47544	0.2000	-5.0374	20.0000
trans-1,3-Dichloropropene	Averaged	0.45126	0.41880	0.1000	-7.1929	20.0000
Ethylbenzene	Averaged	0.50025	0.42826	0.1000	-14.3914	20.0000
Ethyl methacrylate	Averaged	0.35026	0.34138	0.0000	-2.5344	20.0000
Hexachloro-1,3-butadiene	Averaged	0.63212	0.52739	0.0000	-16.5676	20.0000
n-Hexane	Averaged	0.41914	0.44912	0.0000	7.1542	20.0000
2-Hexanone	Averaged	0.25556	0.25268	0.0500	-1.1275	20.0000
Iodomethane	Averaged	0.21939	0.21325	0.0000	-2.7986	20.0000
Isopropylbenzene (Cumene)	Averaged	1.72444	1.45444	0.1000	-15.6572	20.0000
p-Isopropyltoluene	Averaged	2.78305	2.49411	0.0000	-10.3822	20.0000
Methylene Chloride	Averaged	0.23166	0.21289	0.1000	-8.1011	20.0000
1-Methylnaphthalene	Averaged	1.21273	1.04852	0.0000	-13.5412	20.0000
2-Methylnaphthalene	Averaged	1.41026	1.21653	0.0000	-13.7369	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.33985	0.33141	0.0500	-2.4822	20.0000
Methyl-tert-butyl ether	Averaged	0.59894	0.52134	0.1000	-12.9566	20.0000
Naphthalene	Averaged	2.44031	1.95954	0.0000	-19.7011	20.0000
n-Propylbenzene	Averaged	3.57439	3.14938	0.0000	-11.8904	20.0000
Styrene	Averaged	1.09179	0.91249	0.3000	-16.4226	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.32841	0.29378	0.0000	-10.5444	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.71214	0.58933	0.3000	-17.2444	20.0000
Tetrachloroethene	Averaged	0.35388	0.32791	0.2000	-7.3380	20.0000
Toluene	Averaged	1.37137	1.19039	0.4000	-13.1971	20.0000
1,2,3-Trichlorobenzene	Averaged	1.01037	0.84357	0.0000	-16.5084	20.0000
1,2,4-Trichlorobenzene	Averaged	1.07785	0.93056	0.2000	-13.6650	20.0000
1,1,1-Trichloroethane	Averaged	0.35732	0.32834	0.1000	-8.1106	20.0000
1,1,2-Trichloroethane	Averaged	0.21981	0.20312	0.1000	-7.5902	20.0000
Trichloroethene	Averaged	0.25830	0.22937	0.2000	-11.1979	20.0000
Trichlorofluoromethane	Averaged	0.30012	0.29508	0.1000	-1.6797	20.0000
1,2,3-Trichloropropane	Averaged	0.16239	0.15033	0.0000	-7.4320	20.0000
1,2,4-Trimethylbenzene	Averaged	2.57178	2.15199	0.0000	-16.3229	20.0000
1,3,5-Trimethylbenzene	Averaged	2.47679	2.10078	0.0000	-15.1812	20.0000
Vinyl acetate	Averaged	0.55058	0.67350	0.0000	22.3269	20.0000
Vinyl chloride	Averaged	0.27814	0.25597	0.1000	-7.9713	20.0000
m&p-Xylene	Averaged	0.63322	0.53752	0.1000	-15.1129	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

01/27/2017 10:14

SAMPLE NO.

10915065CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/20/2017 Time: 13:34

Instrument ID: 50MV5B GC Column: Col 1
Init. Calib. Date(s): 01/16/2017 01/16/2017

Lab File ID: B012017.B\B01CCV.D
Init. Calib. Time(s): 13:11 17:33

SDG No.: 50163047

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.62701	0.52500	0.3000	-16.2695	20.0000
4-Bromofluorobenzene (S)	Averaged	0.50692	0.52073	0.1000	2.7254	20.0000
Dibromofluoromethane (S)	Averaged	0.25113	0.24312	0.1000	-3.1893	20.0000
Toluene-d8 (S)	Averaged	1.20529	1.27271	0.1000	5.5940	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d
Report Date: 17-Jan-2017 17:04

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d
Lab Smp Id: 8260-ICV Client Smp ID: 8260-ICV
Inj Date : 16-JAN-2017 18:29
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-icv,140022:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011617cal.b\-a8260_a_c.m
Meth Date : 17-Jan-2017 14:30 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.017	1.023	(0.229)	25037	38.4918	38.5	
2 Chloromethane	50	1.143	1.148	(0.257)	46018	46.8415	46.8(M)	LT
3 Vinyl Chloride	62	1.159	1.159	(0.261)	39813	52.4683	52.5	
4 Bromomethane	94	1.310	1.316	(0.295)	15045	48.2425	48.2	
5 Chloroethane	64	1.363	1.363	(0.306)	19543	60.2693	60.3	
6 Trichlorofluoromethane	101	1.483	1.488	(0.333)	45548	52.6031	52.6	
7 Diethyl ether	74	1.619	1.619	(0.364)	16005	54.7782	54.8	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.367)	43063	51.6323	51.6	
9 Acrolein	56	1.692	1.697	(0.380)	119975	1664.70	1660(R)	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.755	(0.393)	35586	48.7888	48.8	
11 1,1-Dichloroethene	96	1.755	1.760	(0.395)	27719	44.5020	44.5	
12 Acetone	43	1.765	1.771	(0.397)	56026	266.732	267	
13 Iodomethane	142	1.849	1.854	(0.416)	53738	86.8647	86.9	
14 Carbon Disulfide	76	1.901	1.907	(0.427)	104722	46.9947	47.0	
20 Methyl Acetate	43	1.943	1.948	(0.437)	54565	89.9784	90.0(R)	
15 Acetonitrile	39	1.964	1.969	(0.442)	88179	49.3479	49.3	
16 allyl chloride	41	1.964	1.969	(0.442)	139534	101.113	101	
17 Methylene Chloride	84	2.048	2.048	(0.460)	33902	48.6489	48.6	
18 tert-Butyl Alcohol	59	2.084	2.090	(0.469)	8318	109.133	109(Q)	
19 Acrylonitrile	53	2.184	2.189	(0.491)	52867	200.500	200	
21 Methyl-tert-butyl ether	73	2.215	2.220	(0.498)	90487	47.7130	47.7	
22 1,2-Dichloroethene (trans)	96	2.231	2.236	(0.502)	32316	47.7125	47.7	
23 n-Hexane	57	2.424	2.430	(0.545)	66581	50.0099	50.0	

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.539	2.545	(0.571)	346865	215.345	215	
	45 Propyl Acetate	43	2.539	2.545	(0.571)	346865		(Q)	
	26 1,1-Dichloroethane	63	2.555	2.560	(0.574)	70463	49.7091	49.7	
	28 Chloroprene	53	2.613	2.623	(0.587)	70376	55.9506	56.0	
	29 2-Butanone	43	3.041	3.047	(0.684)	106074	371.357	371(R)	
	30 1,2-Dichloroethene (cis)	96	3.062	3.073	(0.688)	36794	48.9005	48.9(Q)	
	31 2,2-Dichloropropane	77	3.073	3.078	(0.691)	51077	48.8167	48.8	
	38 Methacrylonitrile	41	3.261	3.266	(0.733)	115960	256.996	257	
	33 Bromochloromethane	49	3.319	3.324	(0.746)	39918	56.5026	56.5	
	34 Tetrahydrofuran	42	3.329	3.340	(0.748)	13210	59.5311	59.5	
	35 Chloroform	83	3.434	3.444	(0.772)	63662	47.5623	47.6	
	36 1,1,1-Trichloroethane	97	3.622	3.633	(0.814)	52348	46.7918	46.8	
$	37 Dibromofluoromethane (S)	113	3.622	3.627	(0.814)	37456	50.8061	50.8	
	39 Cyclohexane	56	3.716	3.727	(0.835)	70050	47.2953	47.3	
	151 n-butyl chloride	56	3.779	3.789	(0.850)	91659	53.3692	53.4	
	40 Carbon Tetrachloride	117	3.821	3.831	(0.859)	46387	48.9303	48.9	
	41 1,1-Dichloropropene	75	3.826	3.831	(0.860)	50699	49.2177	49.2	
	42 Benzene	78	4.067	4.077	(0.914)	142758	46.0265	46.0	
	43 1,2-Dichloroethane	62	4.150	4.161	(0.933)	49056	49.1501	49.2	
	24 Isobutyl alcohol	43	4.161	4.171	(0.935)	463985	75.1190	75.1	
	44 2,2,4-Trimethylpentane	57	4.234	4.239	(0.952)	180205	54.0517	54.0	
*	46 Fluorobenzene (IS)	96	4.448	4.454	(1.000)	147169	50.0000		
	47 Trichloroethene	95	4.883	4.893	(1.098)	36437	46.4702	46.5	
	48 Methylcyclohexane	55	5.149	5.155	(1.158)	65853	50.8079	50.8	
	49 1,2-Dichloropropane	63	5.181	5.191	(1.165)	43581	50.7925	50.8	
	51 1,4-Dioxane	88	5.270	5.285	(1.185)	6359	895.994	896	
	50 Dibromomethane	93	5.280	5.285	(1.187)	21669	48.4305	48.4	
	52 Methyl methacrylate	69	5.280	5.285	(1.187)	22204	50.6313	50.6	
	53 Bromodichloromethane	83	5.494	5.500	(1.235)	48944	45.6684	45.7	
	54 2-Chloroethyl vinyl ether	63	5.829	5.840	(0.775)	21527	50.7129	50.7	
	55 cis-1,3-Dichloropropene	75	5.981	5.986	(0.795)	63045	50.6740	50.7	
	56 4-Methyl-2-Pentanone	43	6.138	6.148	(0.816)	218256	264.563	264	
$	57 Toluene-d8 (S)	98	6.253	6.263	(0.831)	148381	53.0372	53.0	
	58 Toluene	91	6.326	6.331	(0.841)	155404	46.5168	46.5	
	59 trans-1,3-Dichloropropene	75	6.593	6.598	(0.876)	56182	52.5590	52.6	
	60 Ethyl Methacrylate	69	6.661	6.661	(0.885)	181182	211.560	212	
	61 1,1,2-Trichloroethane	83	6.771	6.776	(0.900)	27274	50.6485	50.6	
	62 Tetrachloroethene	166	6.823	6.828	(0.907)	40612	45.3884	45.4	
	63 1,3-Dichloropropane	76	6.901	6.907	(0.917)	55168	50.1397	50.1	
	64 2-Hexanone	43	6.954	6.959	(0.924)	164626	271.328	271	
	65 Dibromochloromethane	129	7.084	7.090	(0.942)	38114	48.5451	48.5	
	66 1,2-Dibromoethane	107	7.168	7.173	(0.953)	32583	49.5449	49.5	
*	67 Chlorobenzene-D5 (IS)	117	7.524	7.529	(1.000)	115297	50.0000		
	68 Chlorobenzene	112	7.550	7.555	(1.003)	101366	44.6736	44.7	
	69 1,1,1,2-Tetrachloroethane	131	7.623	7.628	(1.013)	39123	47.0983	47.1	
	70 Ethylbenzene	106	7.623	7.628	(1.013)	56437	44.5057	44.5	
	71 m&p-Xylene	106	7.723	7.728	(1.026)	139924	93.4024	93.4	
	72 o-Xylene	106	7.979	7.984	(1.060)	68608	43.7875	43.8	
	73 Styrene	104	7.994	8.000	(1.063)	121988	44.7689	44.8	
	74 Bromoform	173	8.120	8.125	(0.901)	25247	48.8200	48.8	
	75 Isopropylbenzene	105	8.219	8.225	(1.092)	184415	43.0029	43.0	
$	76 4-Bromofluorobenzene (S)	95	8.334	8.340	(1.108)	58587	49.9220	49.9	
	77 Bromobenzene	77	8.418	8.418	(1.119)	103897	61.2187	61.2	
	78 1,1,2,2-Tetrachloroethane	83	8.423	8.423	(0.935)	45674	51.1954	51.2	

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
79 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.122)	48017	176.531	176(Q)	
80 1,2,3-Trichloropropane	110	8.455	8.455	(0.938)	11349	52.6931	52.7(Q)	
81 n-Propylbenzene	91	8.481	8.481	(0.941)	233624	49.7974	49.8	
82 2-Chlorotoluene	91	8.533	8.538	(0.947)	131464	47.4476	47.4	
83 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.953)	160511	48.1164	48.1	
84 4-Chlorotoluene	126	8.606	8.612	(0.955)	45636	47.2333	47.2	
85 tert-Butylbenzene	119	8.769	8.774	(0.973)	137951	47.3786	47.4	
86 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.977)	167645	48.0948	48.1	
87 sec-Butylbenzene	105	8.894	8.899	(0.987)	211907	45.5170	45.5	
88 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	86331	45.4337	45.4	
89 p-Isopropyltoluene	119	8.978	8.983	(0.997)	170124	45.8551	45.8	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.014	(1.000)	63425	50.0000	(Q)	
91 1,4-Dichlorobenzene	146	9.025	9.030	(1.002)	89648	46.3496	46.3	
92 n-Butylbenzene	91	9.197	9.203	(1.021)	166260	45.8237	45.8	
93 1,2-Dichlorobenzene	146	9.213	9.218	(1.023)	82940	44.6344	44.6	
94 1,2-Dibromo-3-chloropropane	155	9.626	9.632	(1.069)	7662	47.1425	47.1	
95 1,2,4-Trichlorobenzene	180	10.045	10.050	(1.115)	66041	45.1714	45.2	
96 Hexachlorobutadiene	225	10.108	10.118	(1.122)	39161	44.8118	44.8	
97 Naphthalene	128	10.191	10.196	(1.131)	139989	42.6115	42.6	
98 1,2,3-Trichlorobenzene	180	10.311	10.317	(1.145)	61813	42.6409	42.6	
99 2,methyl-naphthalene	142	10.850	10.861	(1.204)	60633	40.6247	40.6	
150 1-Methylnaphthalene	142	10.971	10.981	(1.218)	65571	48.8334	48.8	

QC Flag Legend

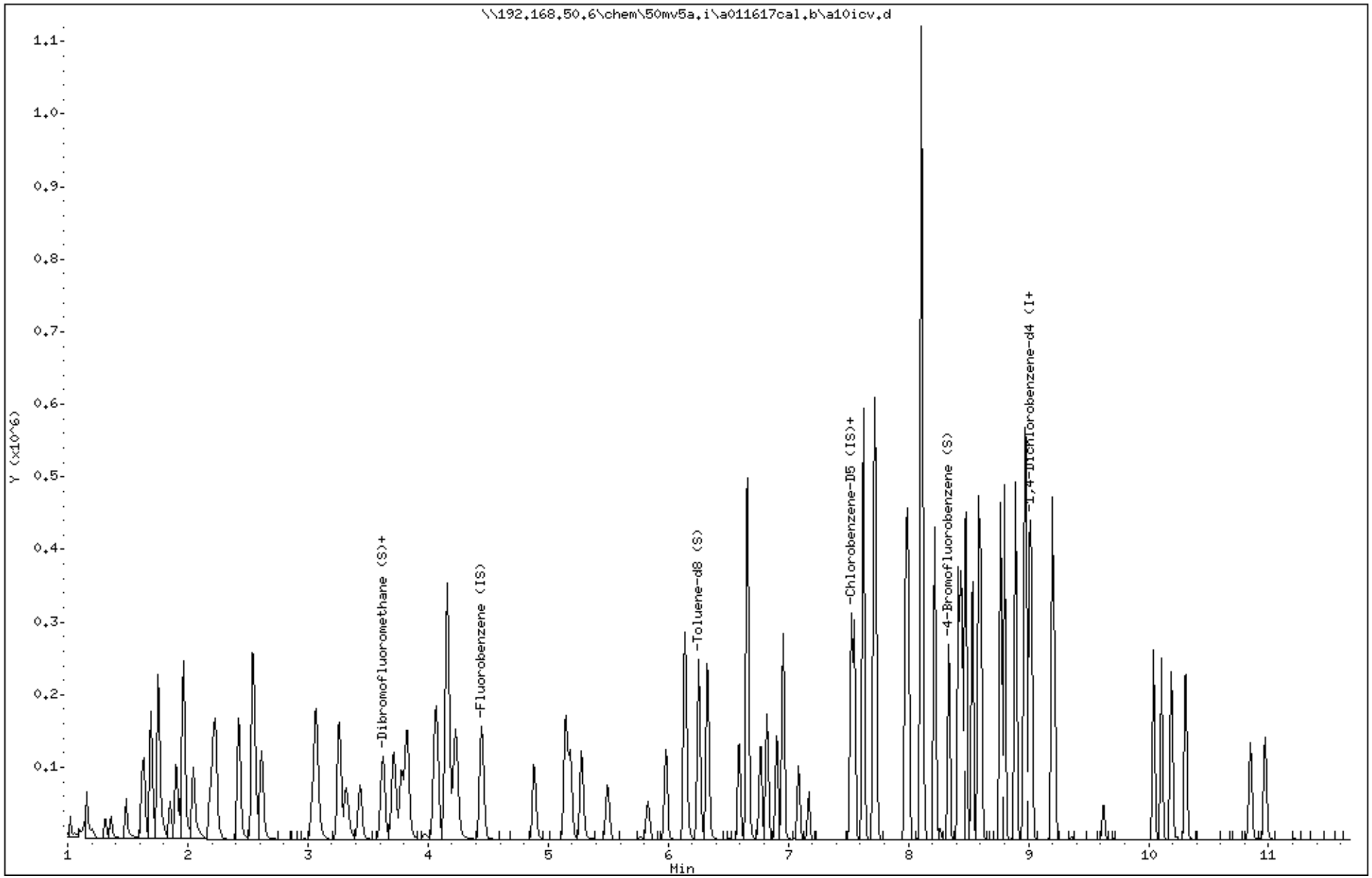
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d
Date : 16-JAN-2017 18:29
Client ID: 8260-ICV
Sample Info: 8260-ICV,140022:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv5a.i
Operator: TMW
Column diameter: 0.18



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Date : 16-JAN-2017 18:29

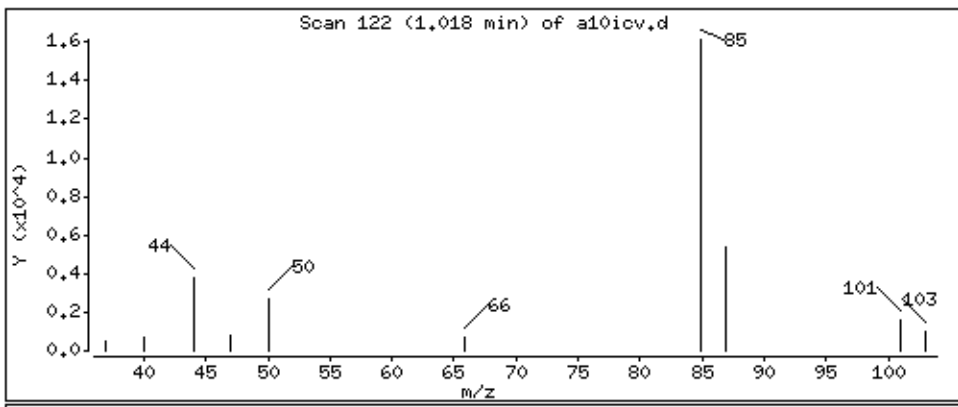
Client ID: 8260-ICV | Instrument: 50mv5a.i

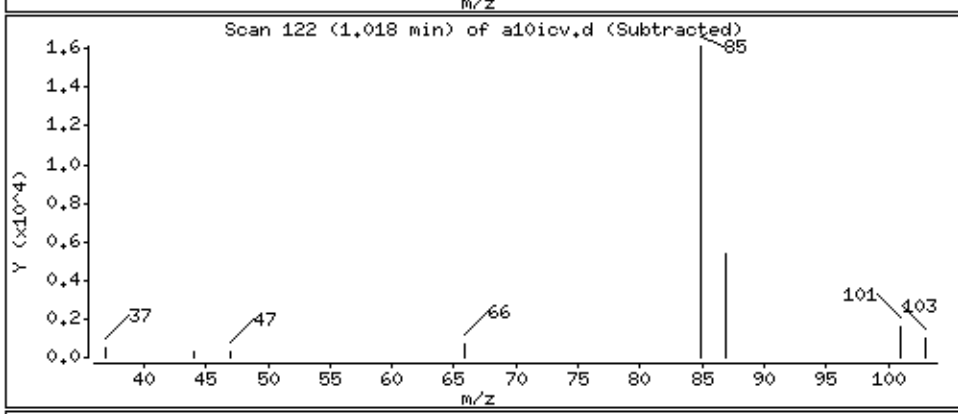
Sample Info: 8260-ICV,140022:0

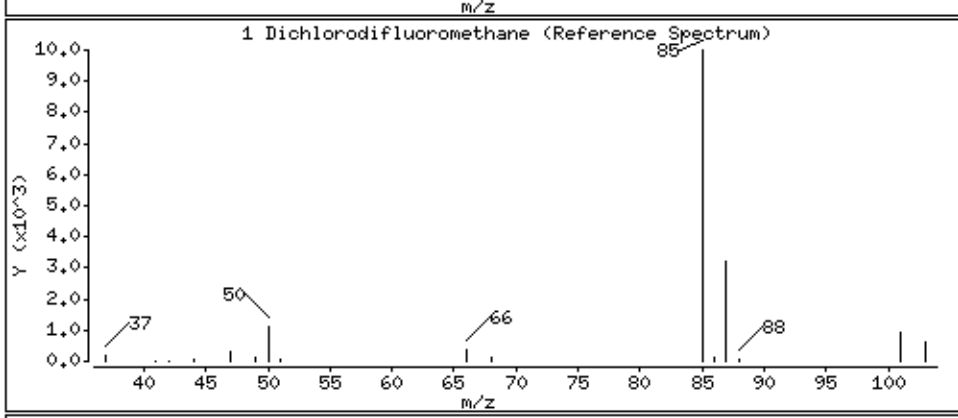
Purge Volume: 5.0 | Operator: TMW

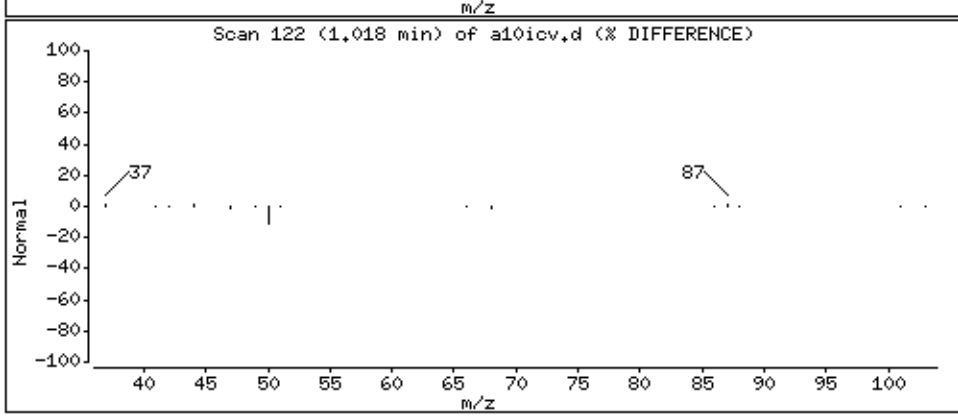
Column phase: DB-624 | Column diameter: 0.18

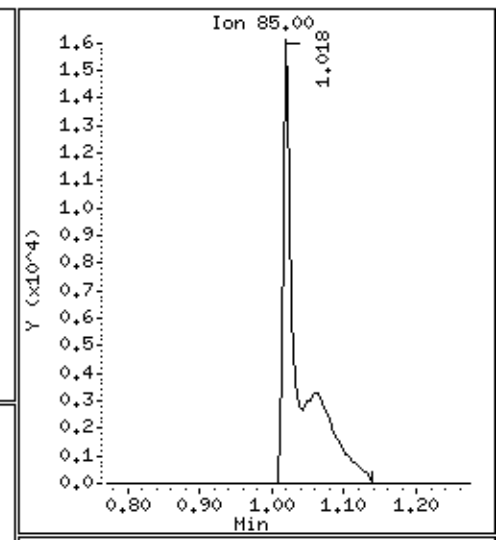
1 Dichlorodifluoromethane | Concentration: 38.5 ppb

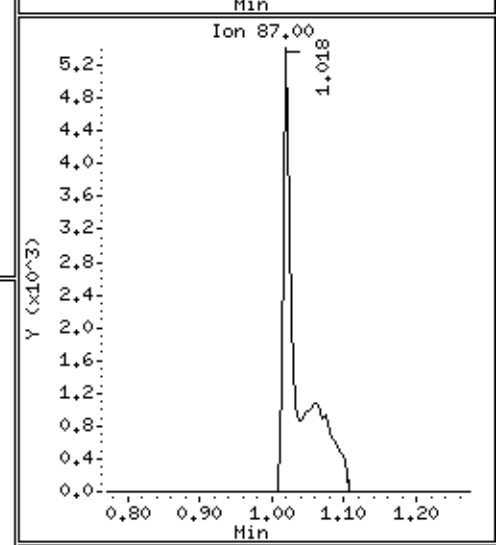


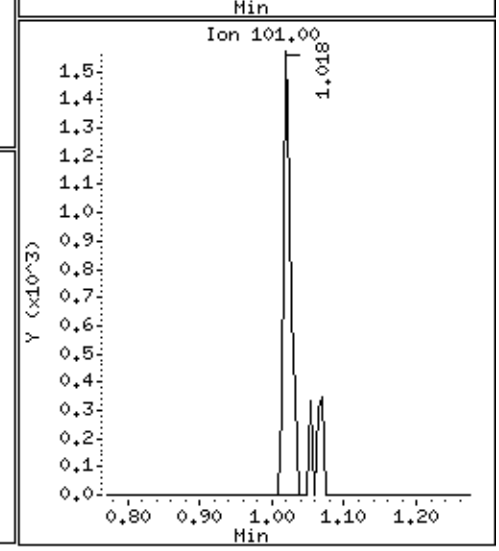












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Date : 16-JAN-2017 18:29

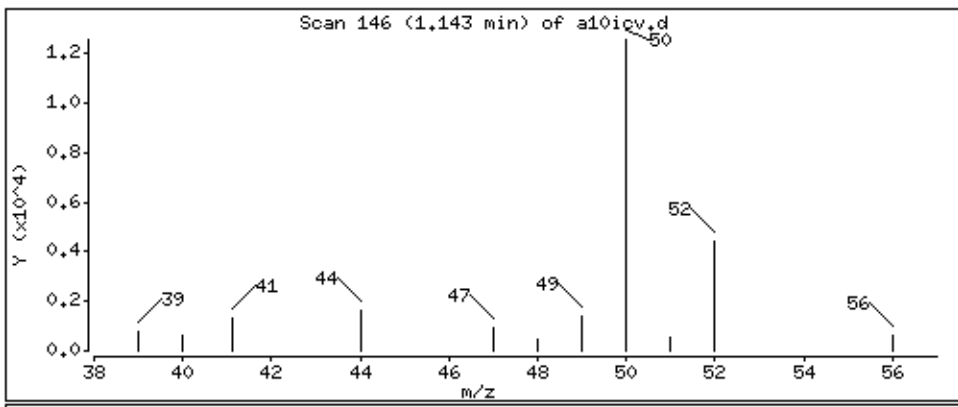
Client ID: 8260-ICV | Instrument: 50mv5a.i

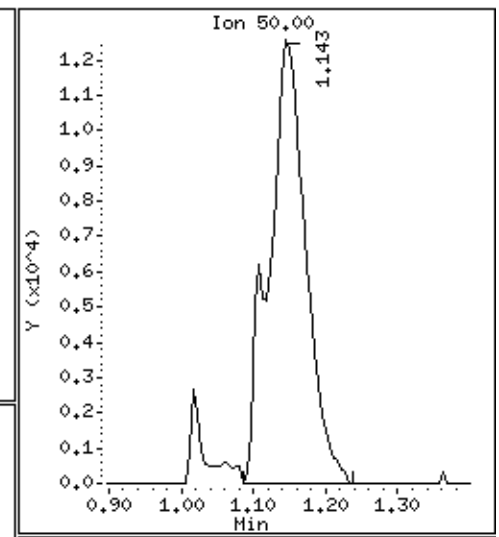
Sample Info: 8260-ICV,140022:0

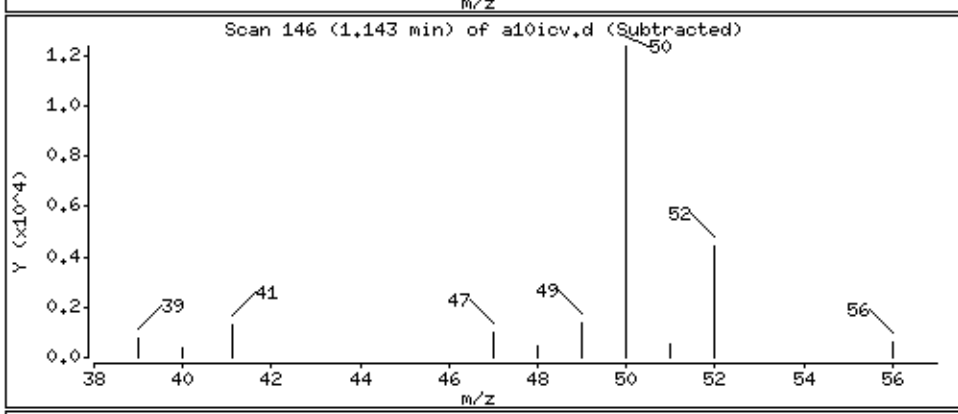
Purge Volume: 5.0 | Operator: TMW

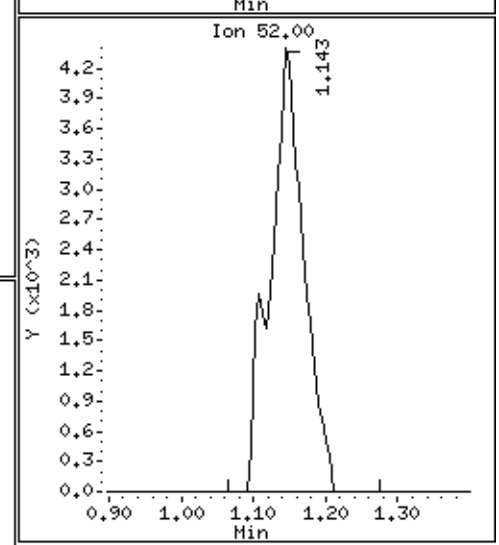
Column phase: DB-624 | Column diameter: 0.18

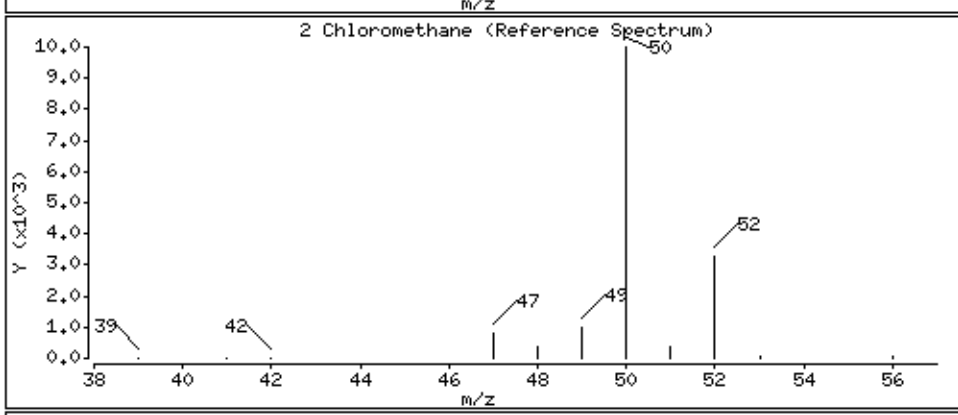
2 Chloromethane | Concentration: 46.8 ppb

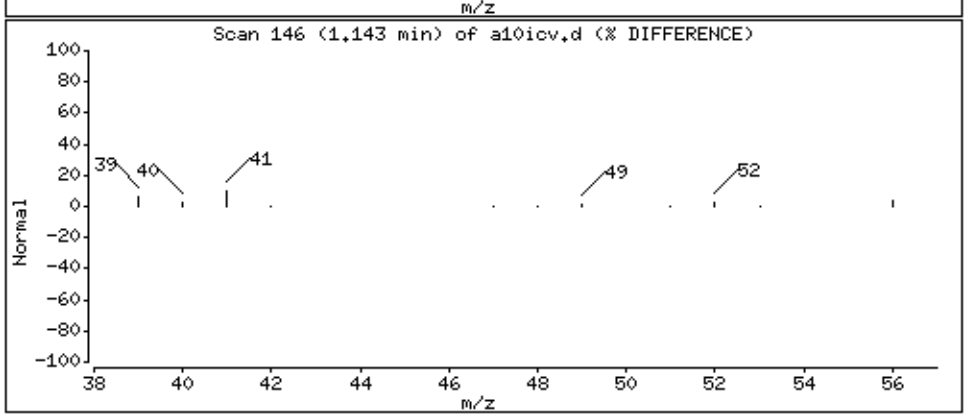












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Date : 16-JAN-2017 18:29

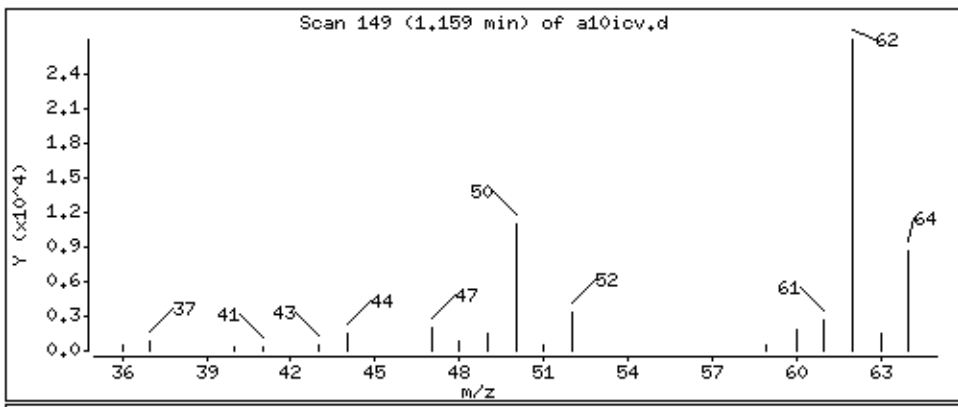
Client ID: 8260-ICV | Instrument: 50mv5a.i

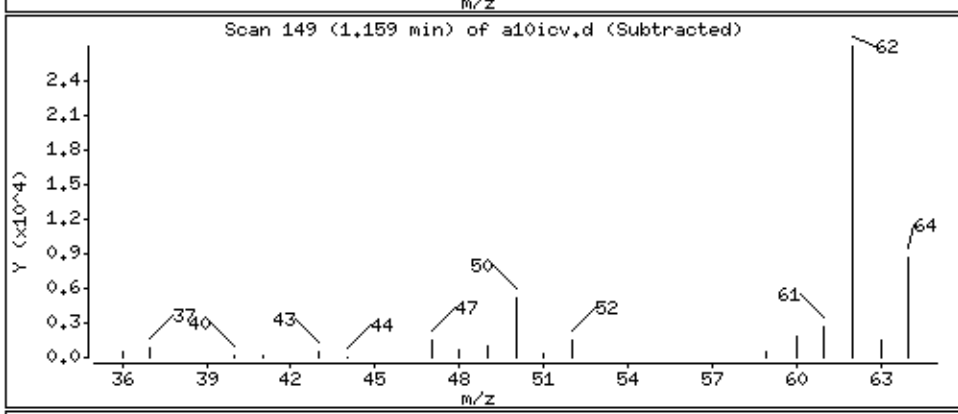
Sample Info: 8260-ICV,140022:0

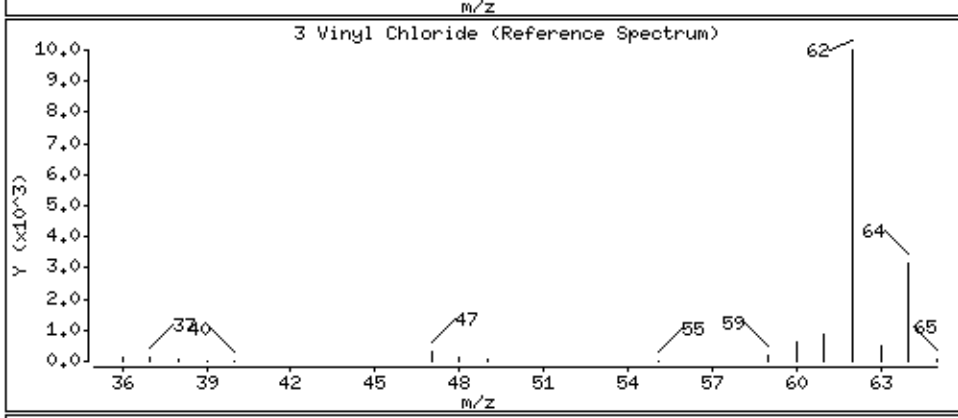
Purge Volume: 5.0 | Operator: TMW

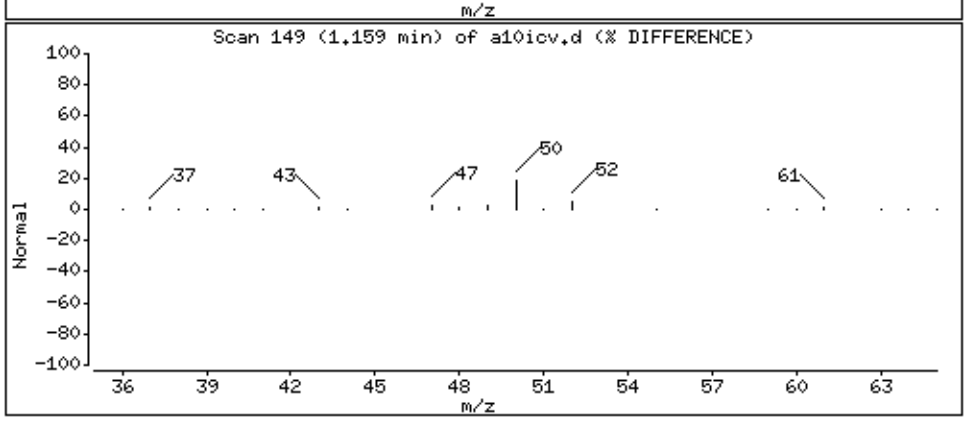
Column phase: DB-624 | Column diameter: 0.18

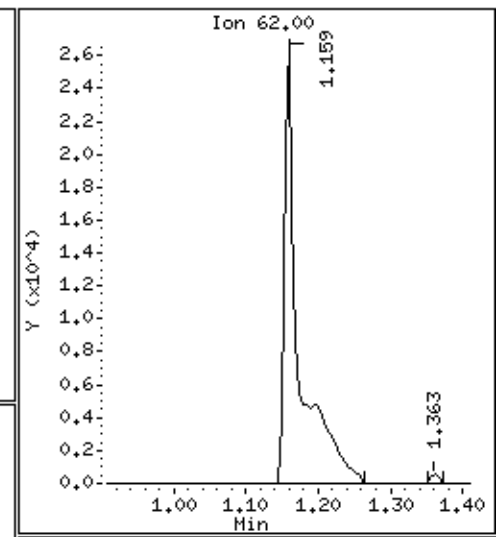
3 Vinyl Chloride | Concentration: 52.5 ppb

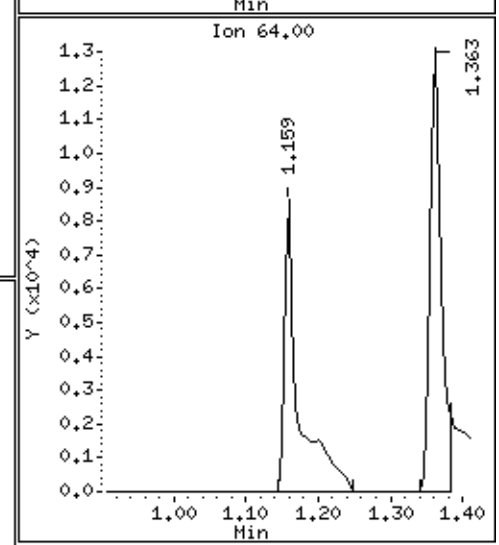












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Date : 16-JAN-2017 18:29

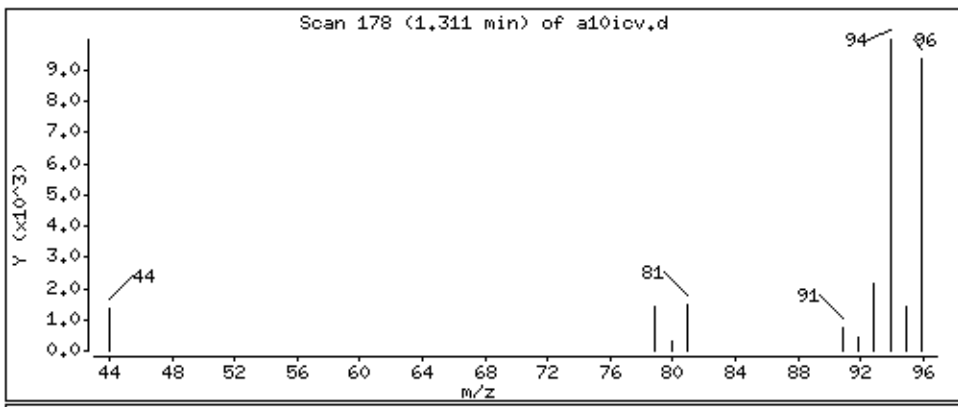
Client ID: 8260-ICV | Instrument: 50mv5a.i

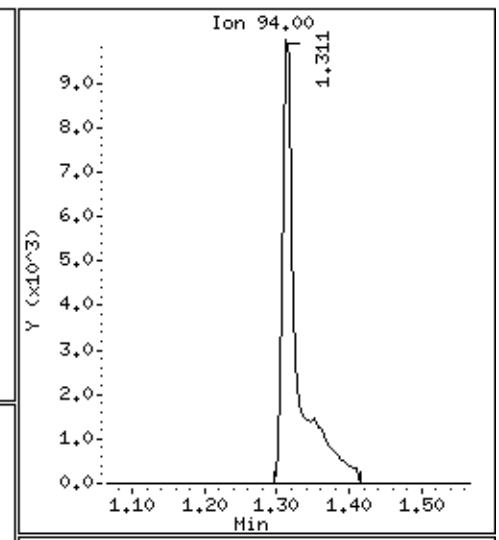
Sample Info: 8260-ICV,140022:0

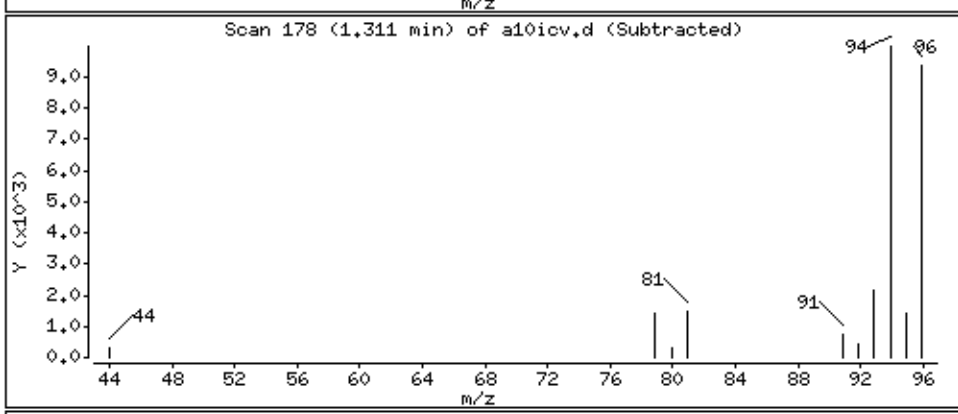
Purge Volume: 5.0 | Operator: TMW

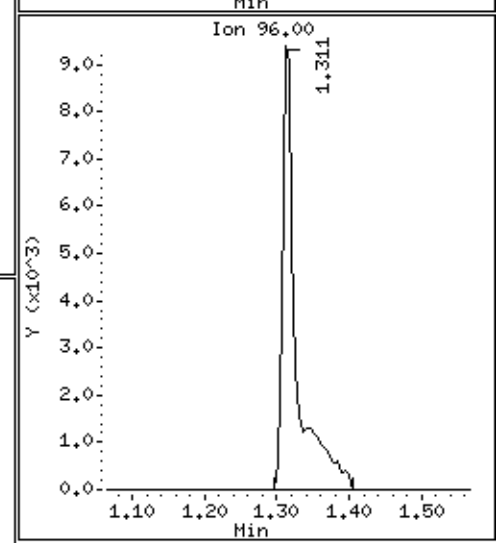
Column phase: DB-624 | Column diameter: 0.18

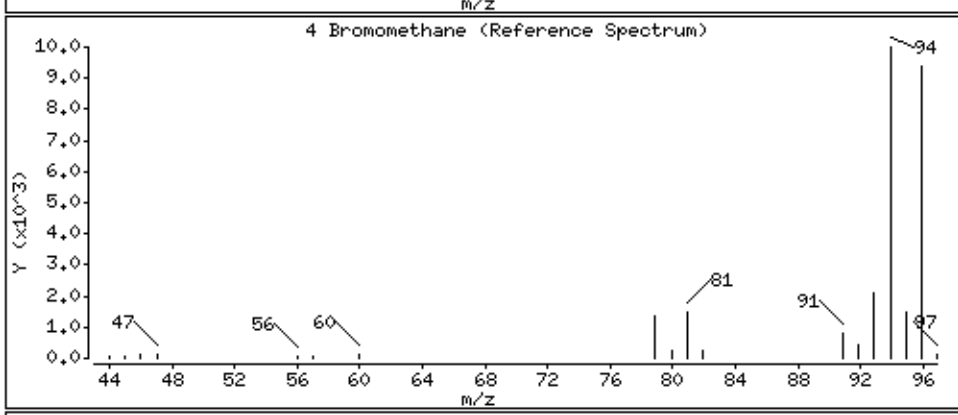
4 Bromomethane | Concentration: 48.2 ppb

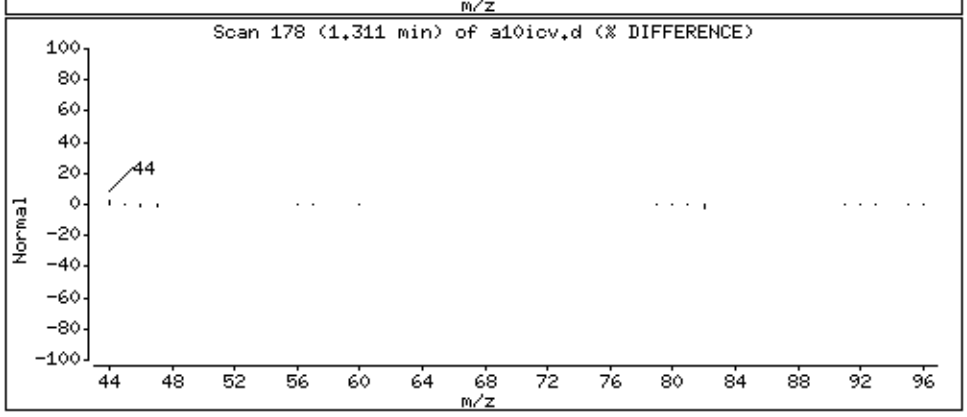












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

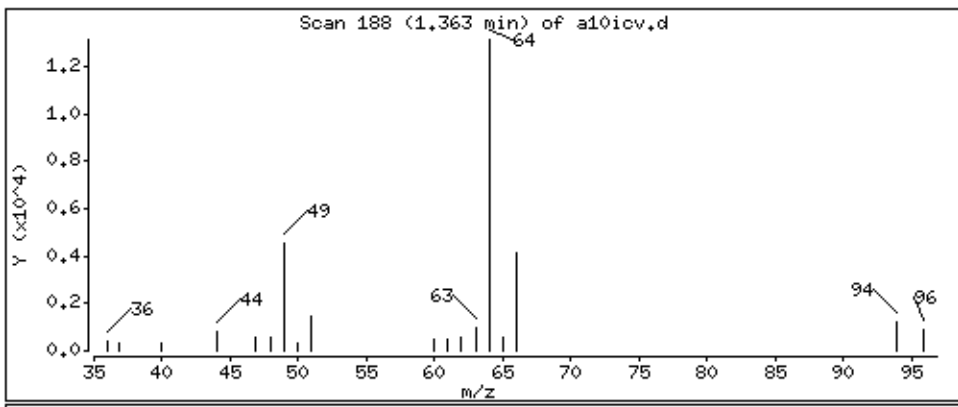
Client ID: 8260-ICV | Instrument: 50mv5a.i

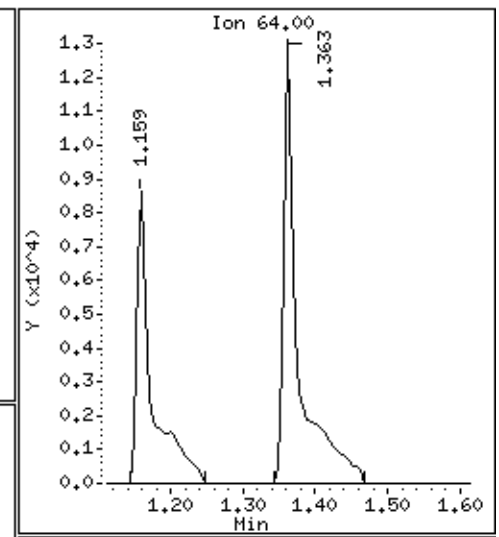
Sample Info: 8260-ICV,140022:0

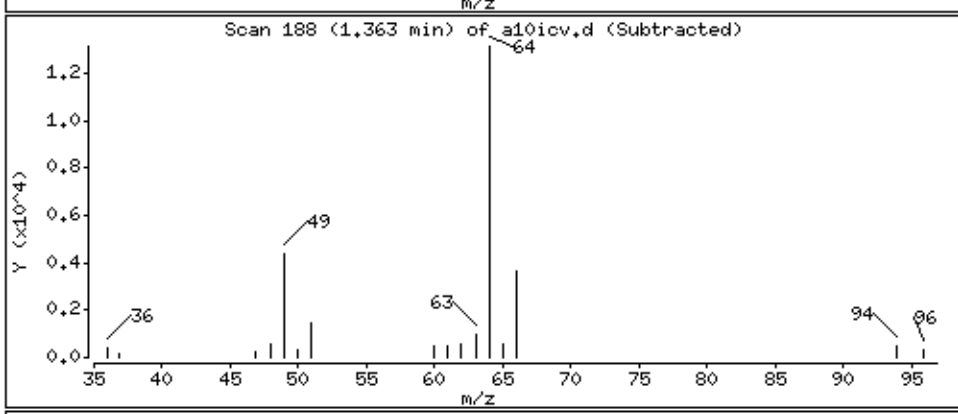
Purge Volume: 5.0 | Operator: TMW

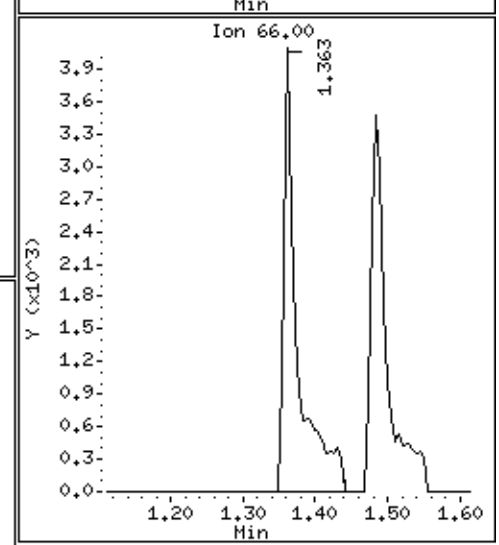
Column phase: DB-624 | Column diameter: 0.18

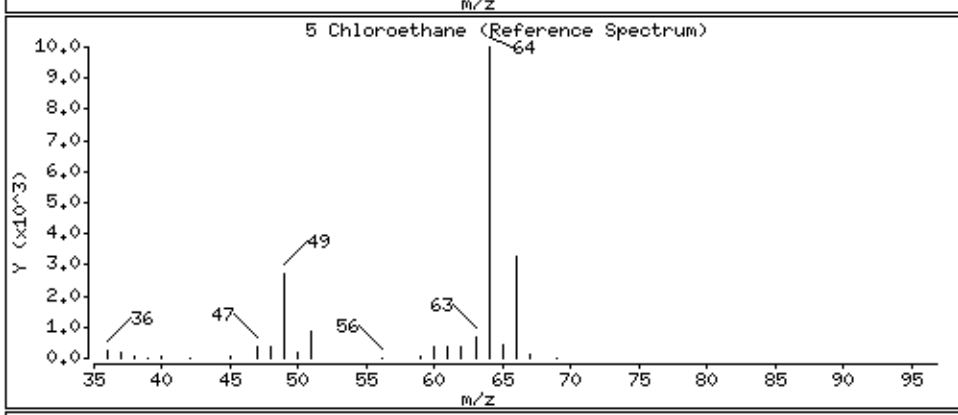
5 Chloroethane | Concentration: 60.3 ppb

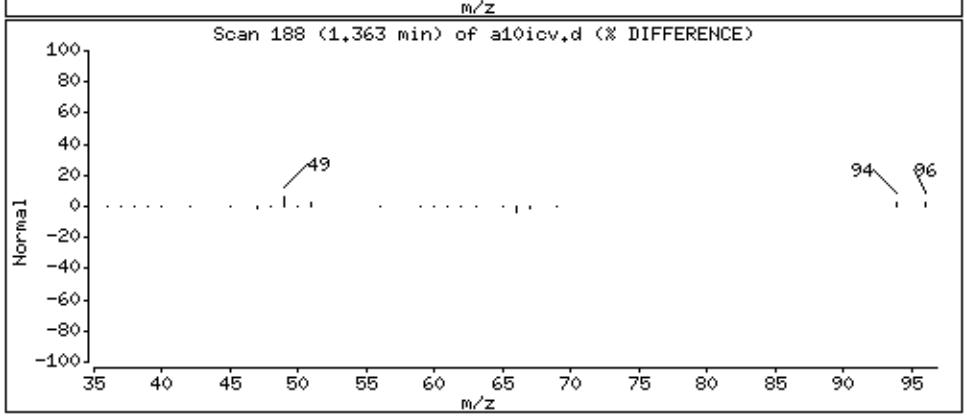












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

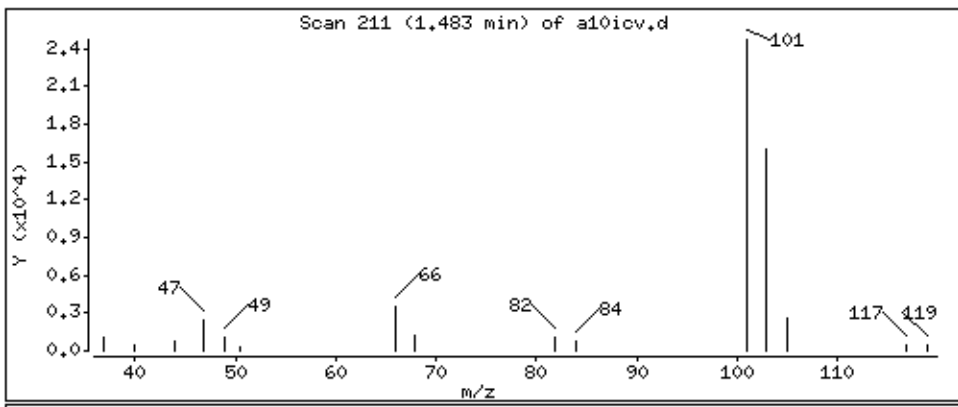
Client ID: 8260-ICV | Instrument: 50mv5a.i

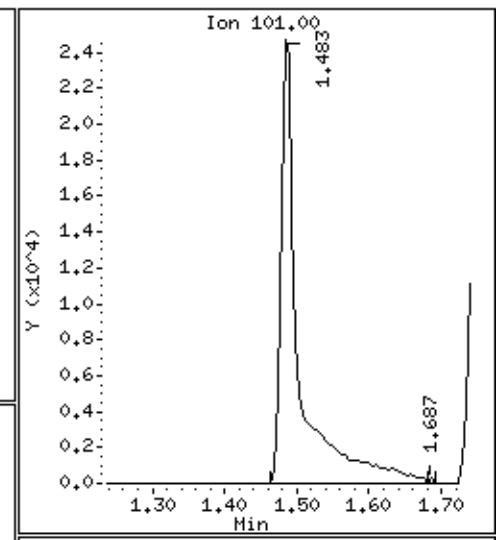
Sample Info: 8260-ICV,140022:0

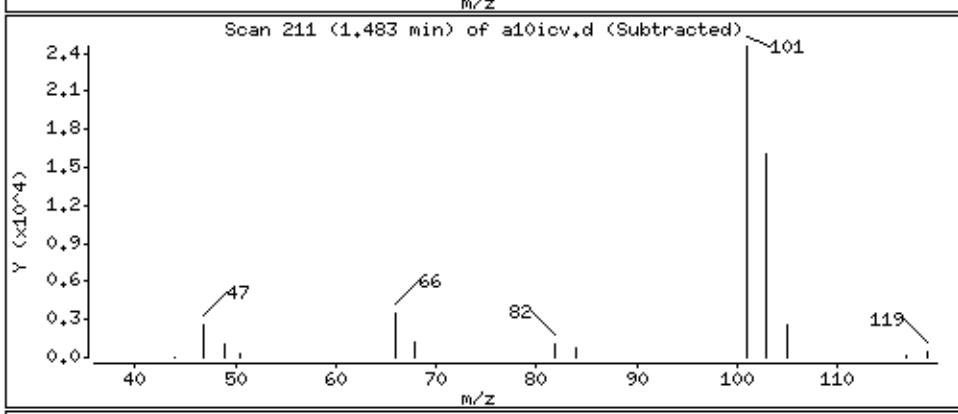
Purge Volume: 5.0 | Operator: TMW

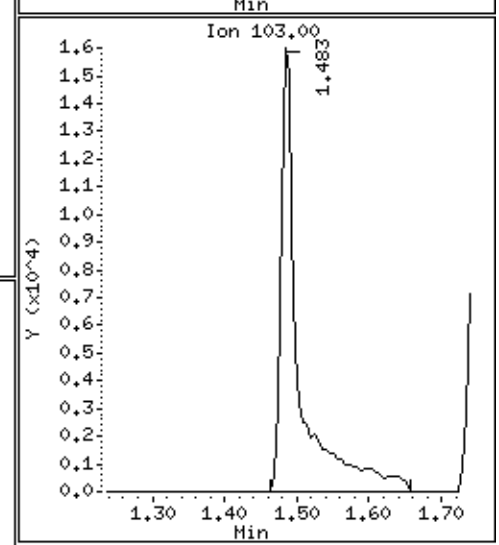
Column phase: DB-624 | Column diameter: 0.18

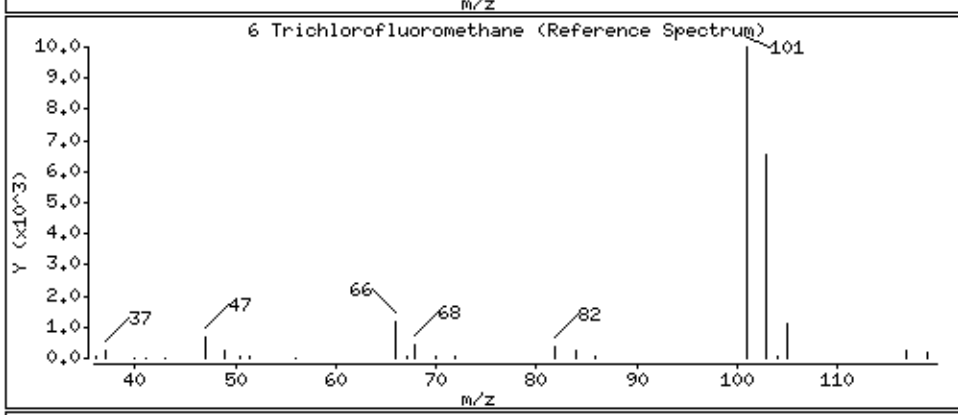
6 Trichlorofluoromethane | Concentration: 52.6 ppb

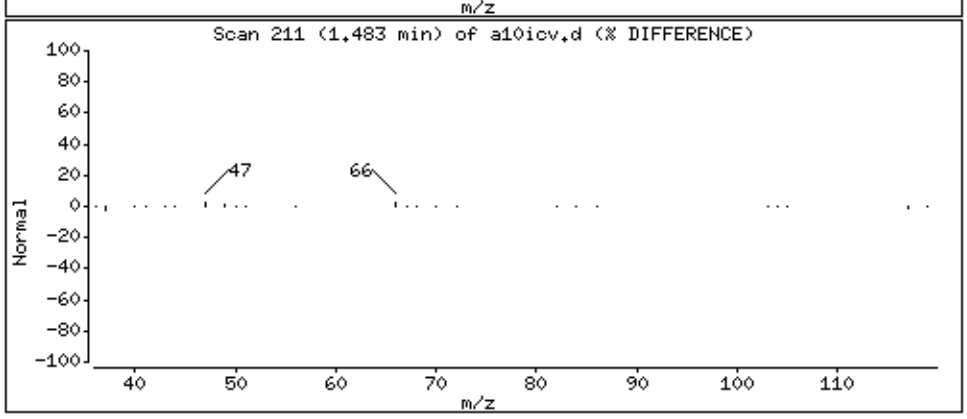












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

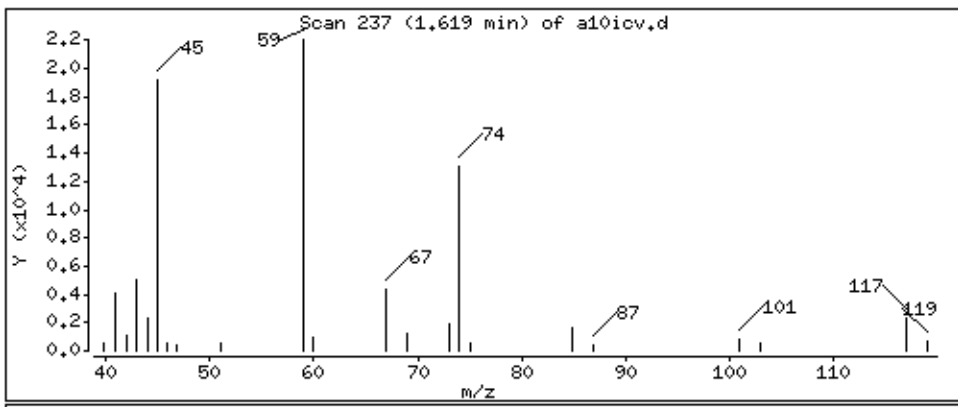
Client ID: 8260-ICV | Instrument: 50mv5a.i

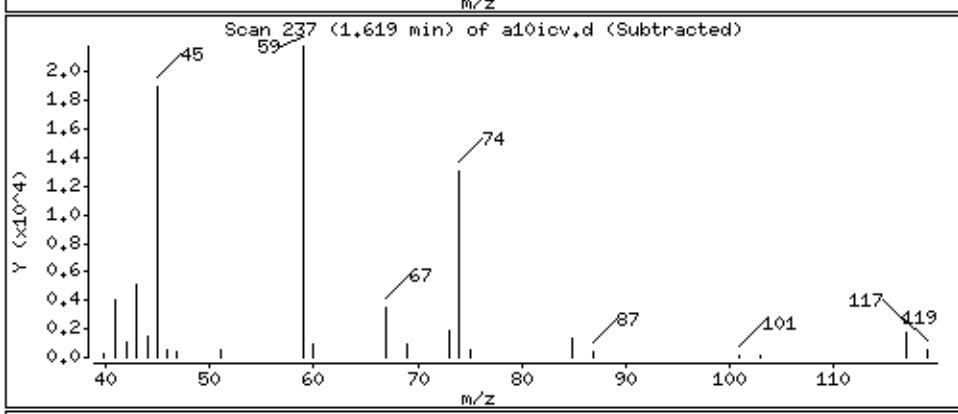
Sample Info: 8260-ICV,140022:0

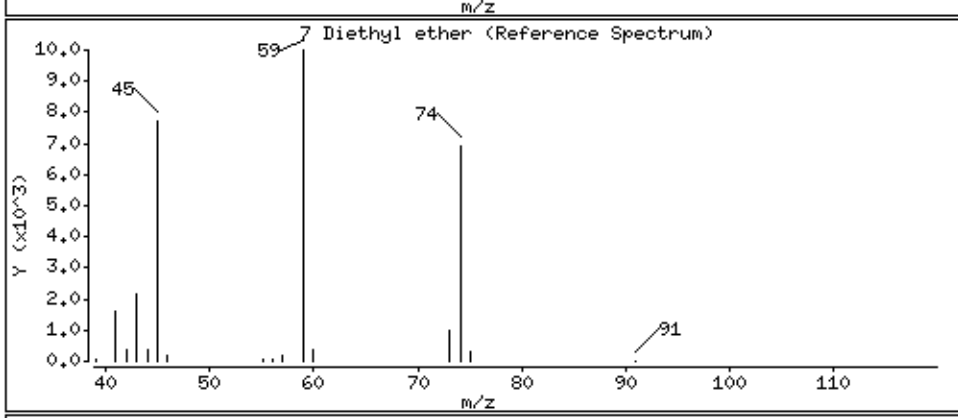
Purge Volume: 5.0 | Operator: TMW

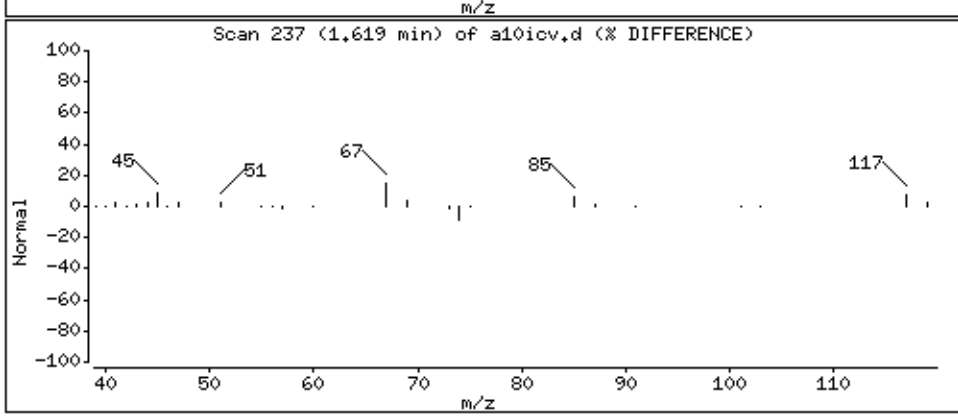
Column phase: DB-624 | Column diameter: 0.18

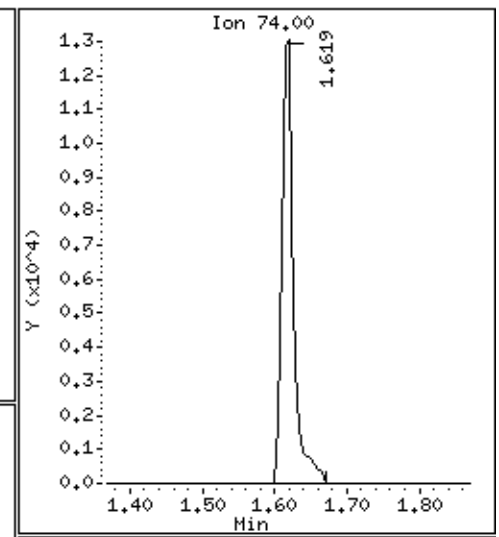
7 Diethyl ether | Concentration: 54.8 ppb

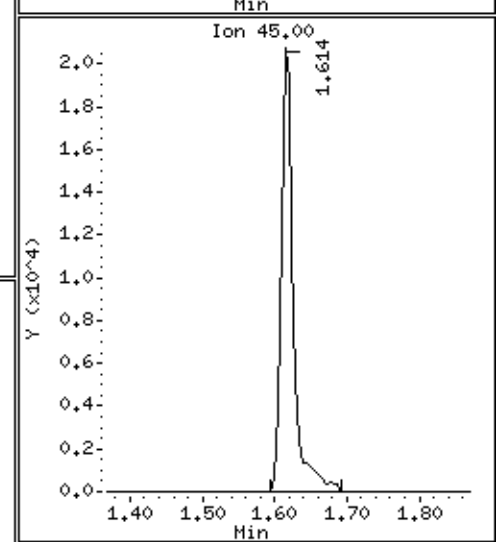


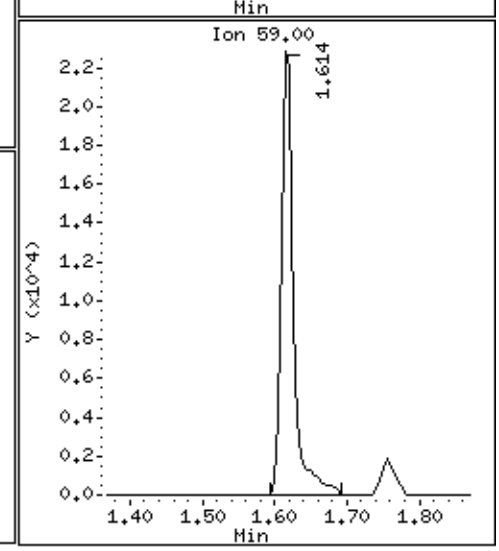












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

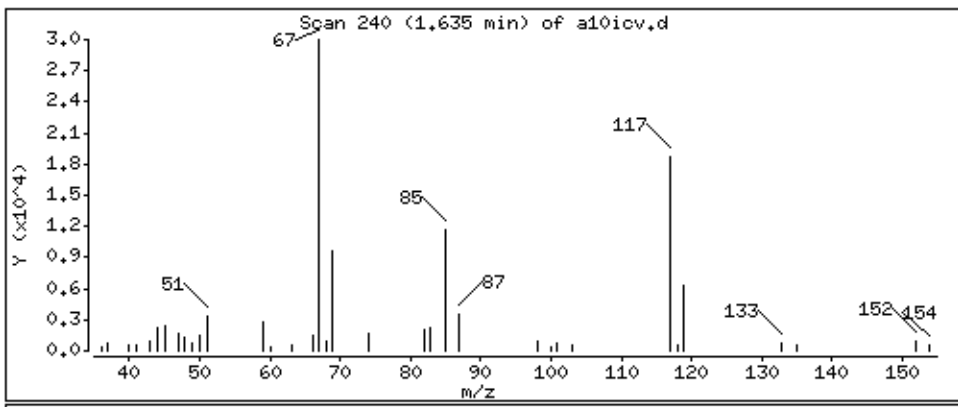
Client ID: 8260-ICV | Instrument: 50mv5a.i

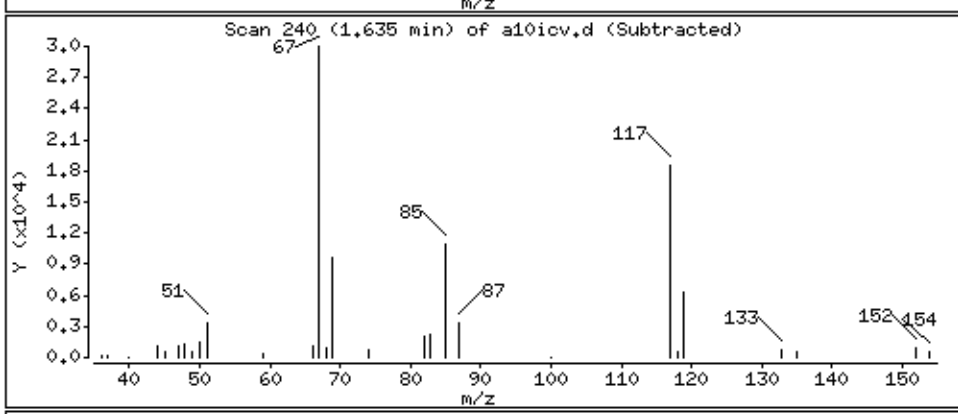
Sample Info: 8260-ICV,140022:0

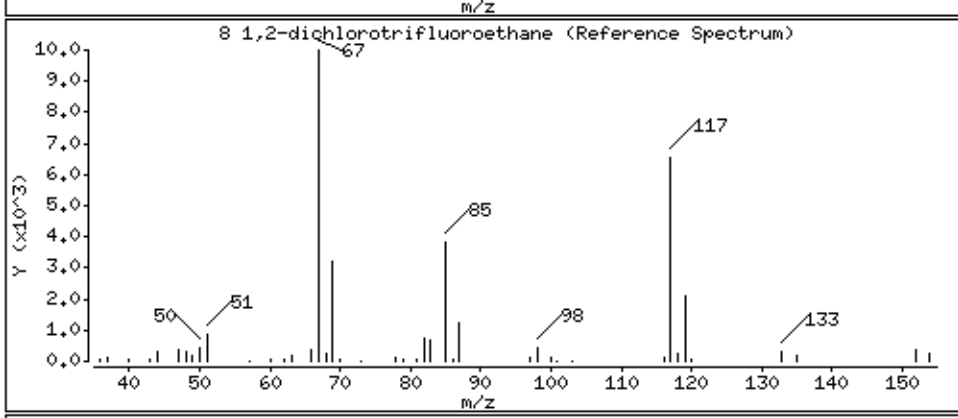
Purge Volume: 5.0 | Operator: TMW

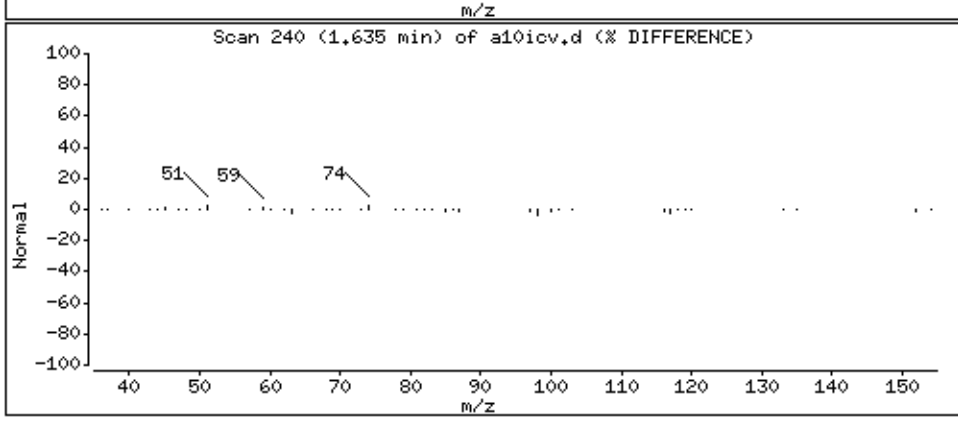
Column phase: DB-624 | Column diameter: 0.18

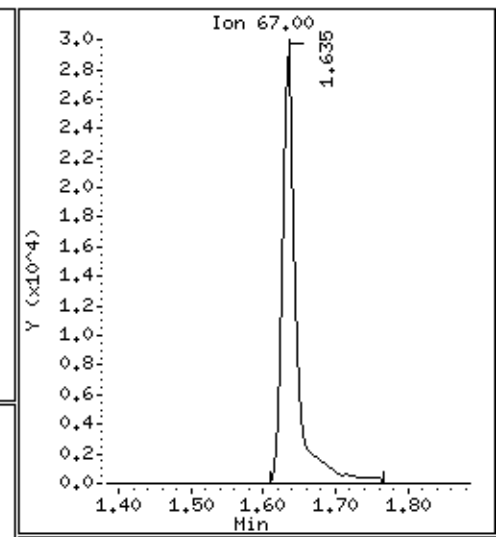
8 1,2-dichlorotrifluoroethane | Concentration: 51.6 ppb

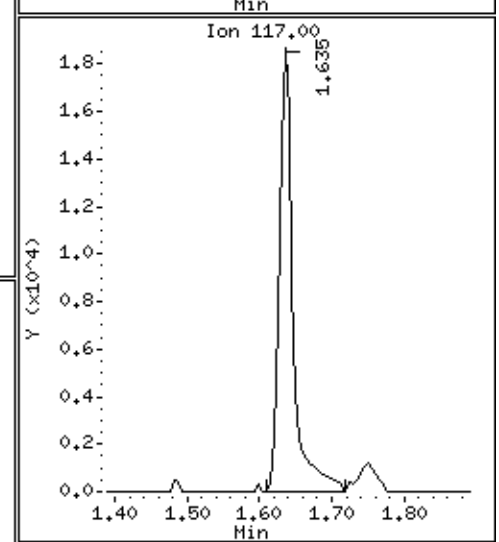


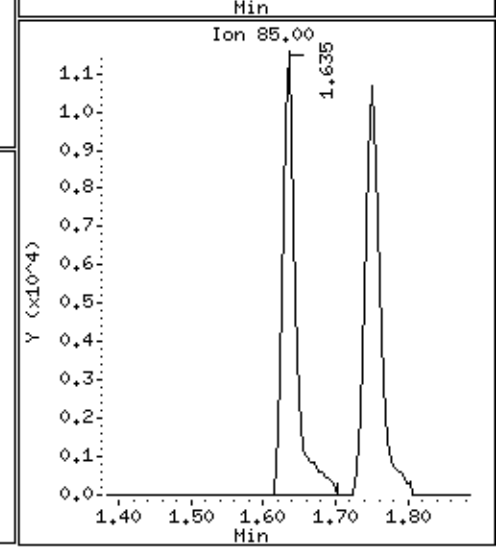












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

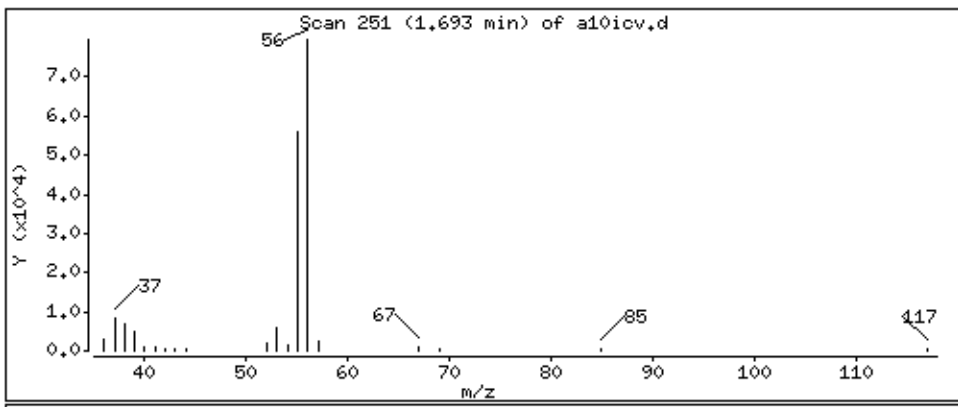
Client ID: 8260-ICV | Instrument: 50mv5a.i

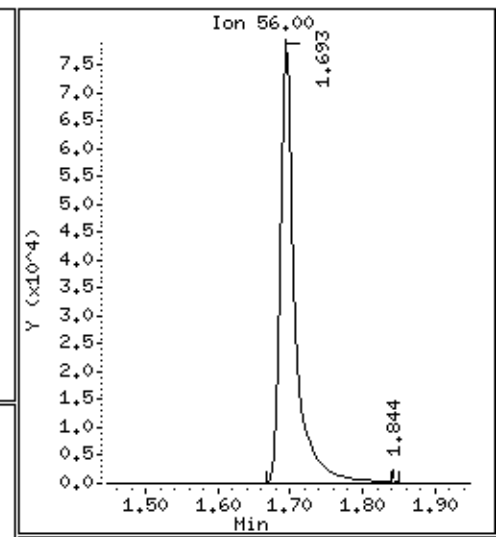
Sample Info: 8260-ICV,140022:0

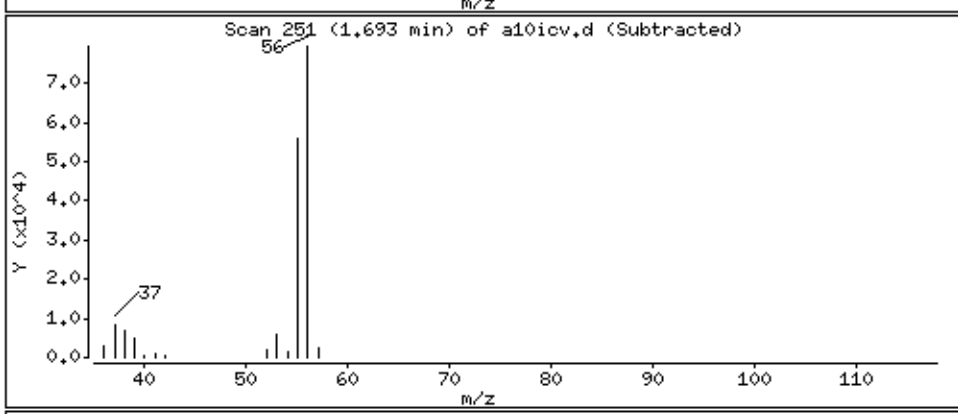
Purge Volume: 5.0 | Operator: TMW

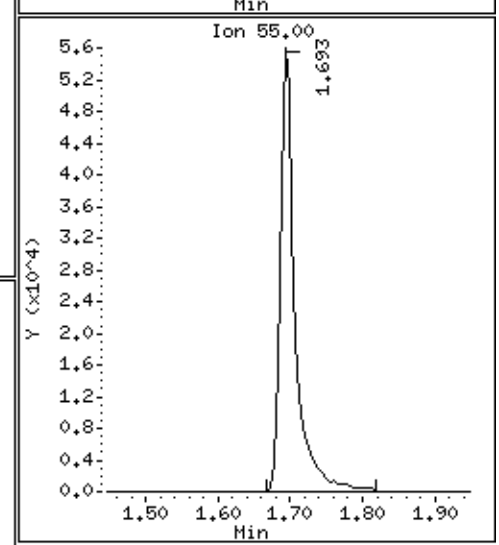
Column phase: DB-624 | Column diameter: 0.18

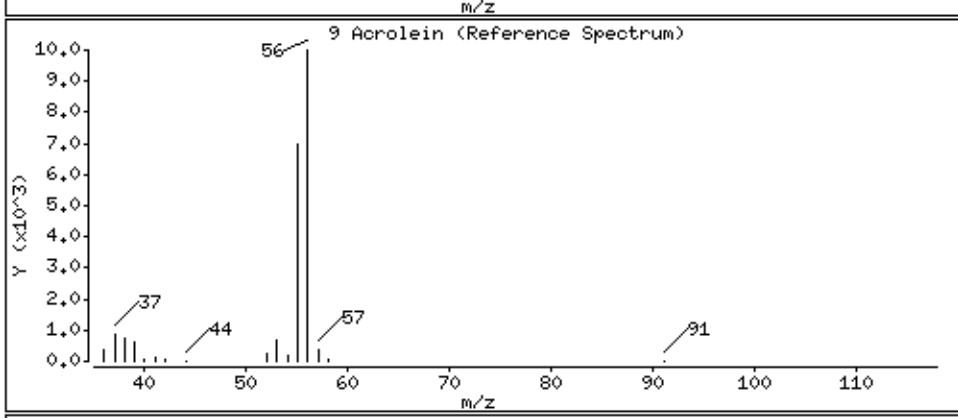
9 Acrolein | Concentration: 1660 ppb

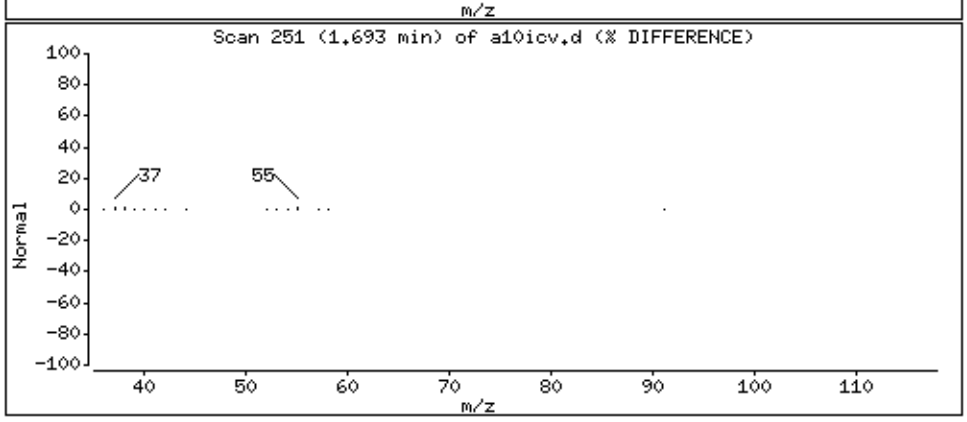












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

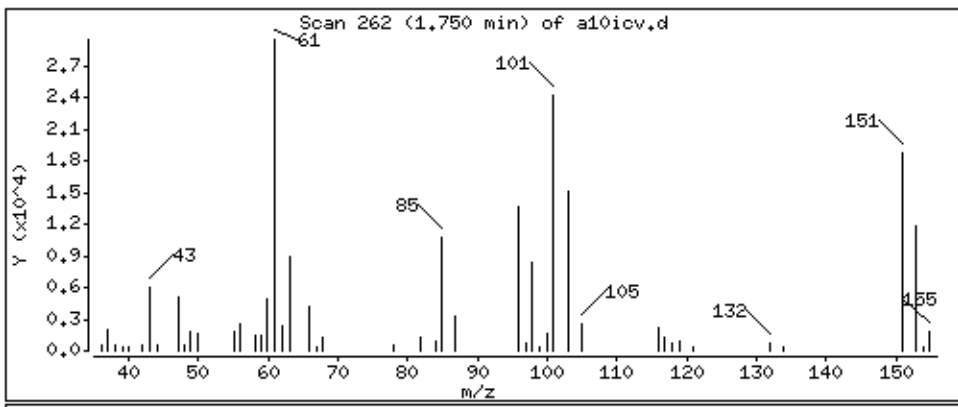
Client ID: 8260-ICV | Instrument: 50mv5a.i

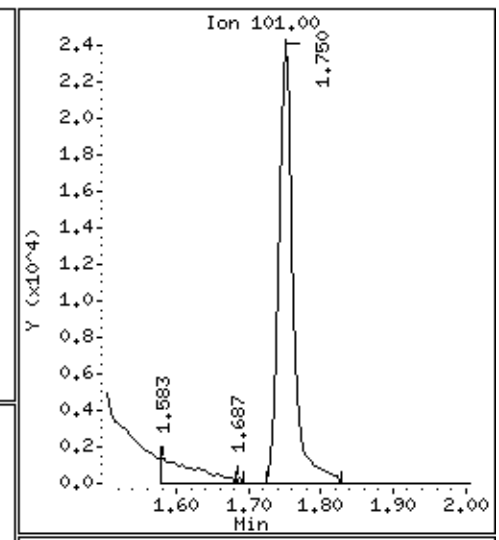
Sample Info: 8260-ICV,140022:0

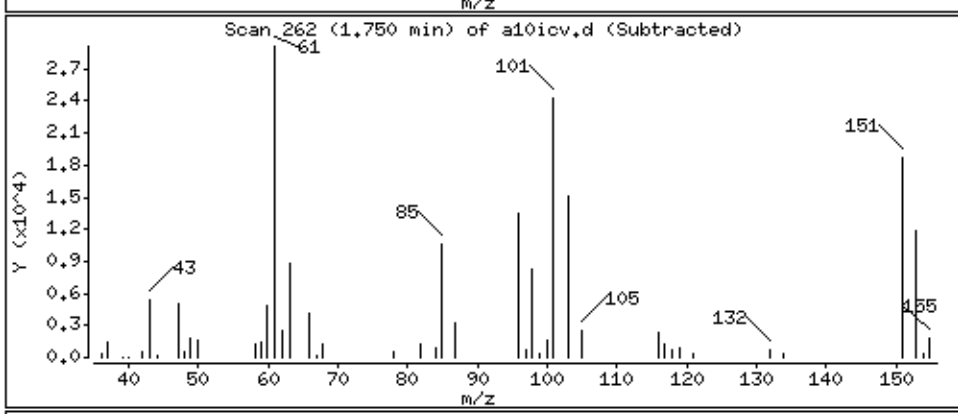
Purge Volume: 5.0 | Operator: TMW

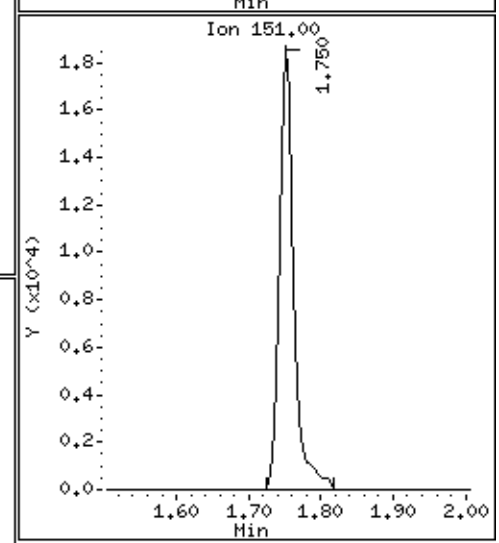
Column phase: DB-624 | Column diameter: 0.18

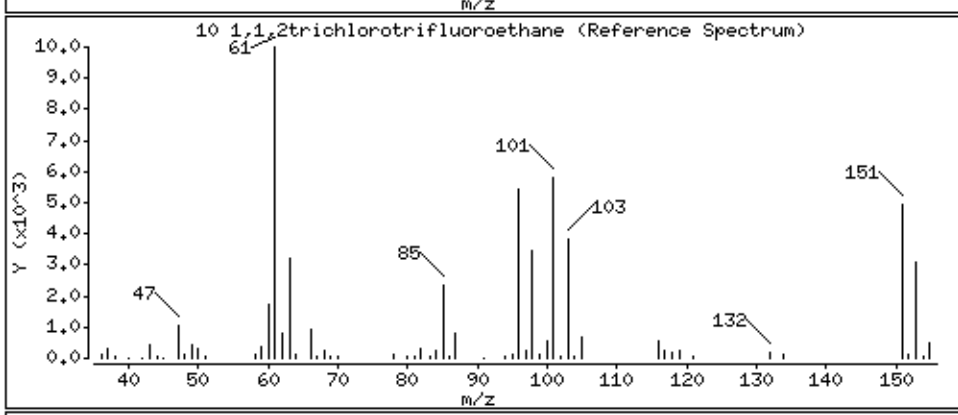
10 1,1,2trichlorotrifluoroethane | Concentration: 48.8 ppb

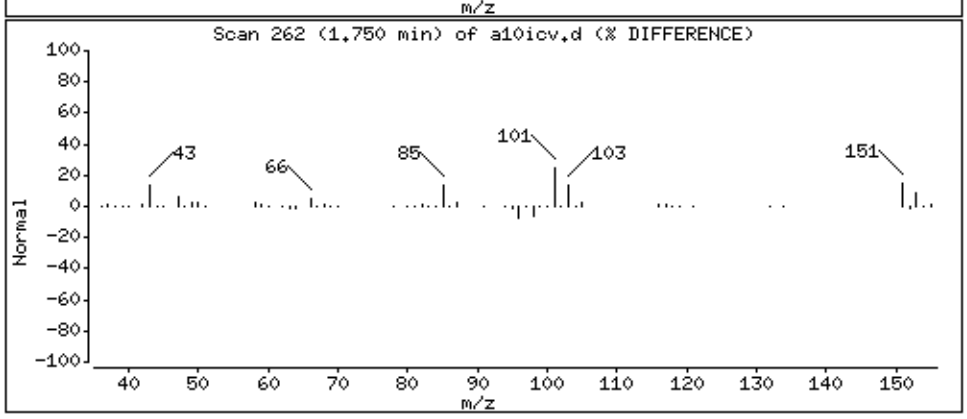












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

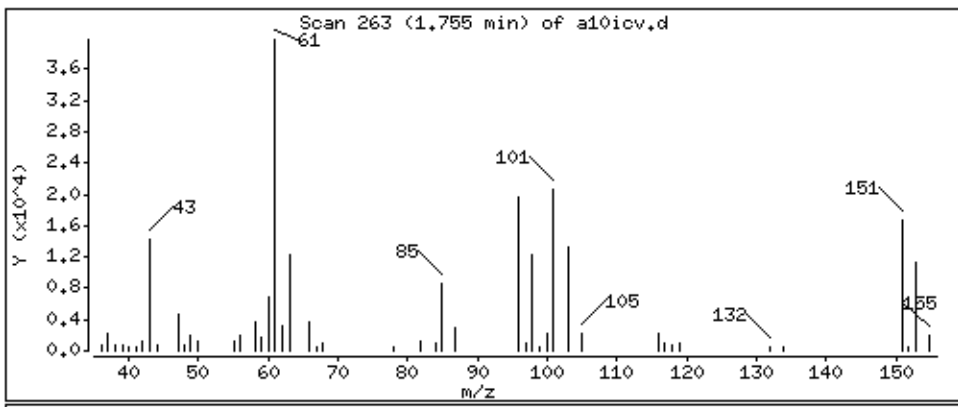
Client ID: 8260-ICV | Instrument: 50mv5a.i

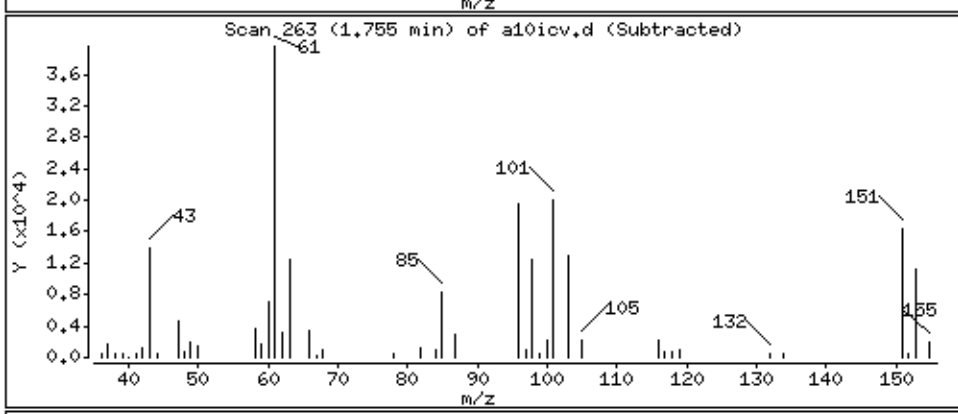
Sample Info: 8260-ICV,140022:0

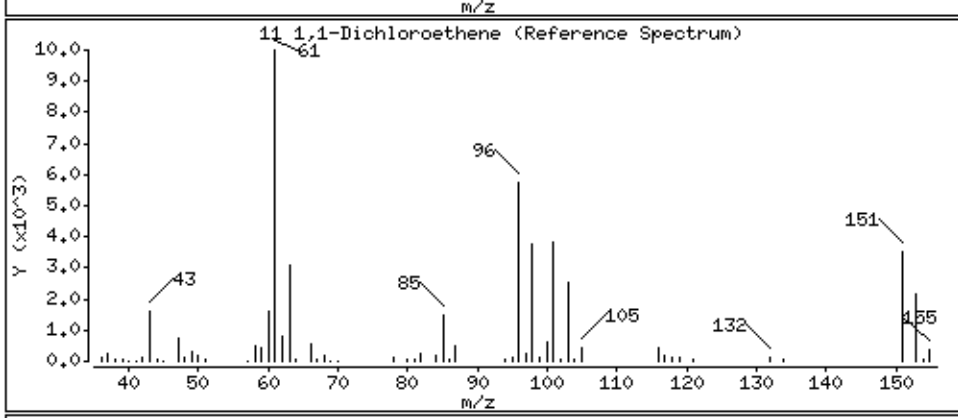
Purge Volume: 5.0 | Operator: TMW

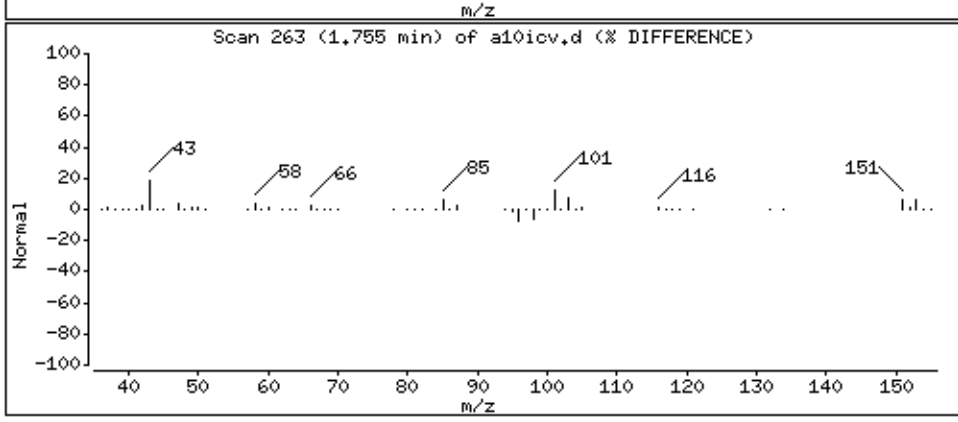
Column phase: DB-624 | Column diameter: 0.18

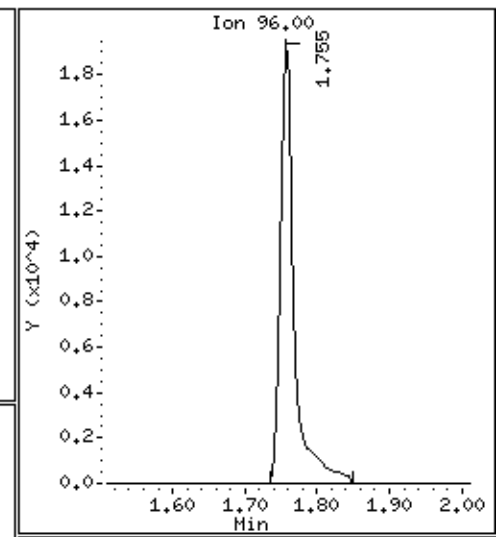
11 1,1-Dichloroethene | Concentration: 44.5 ppb

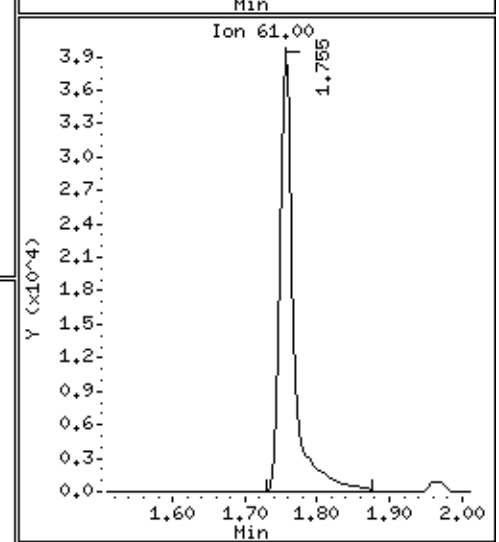


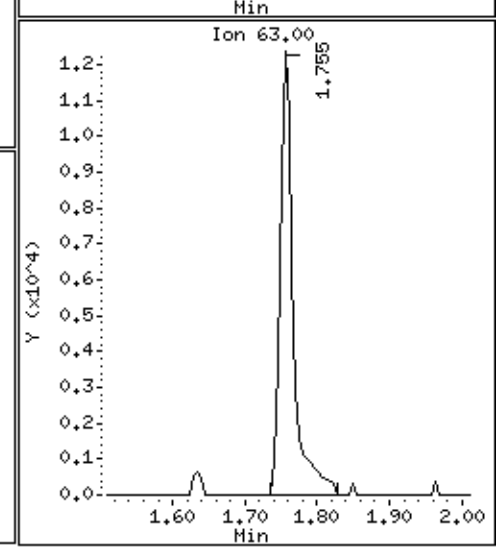












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

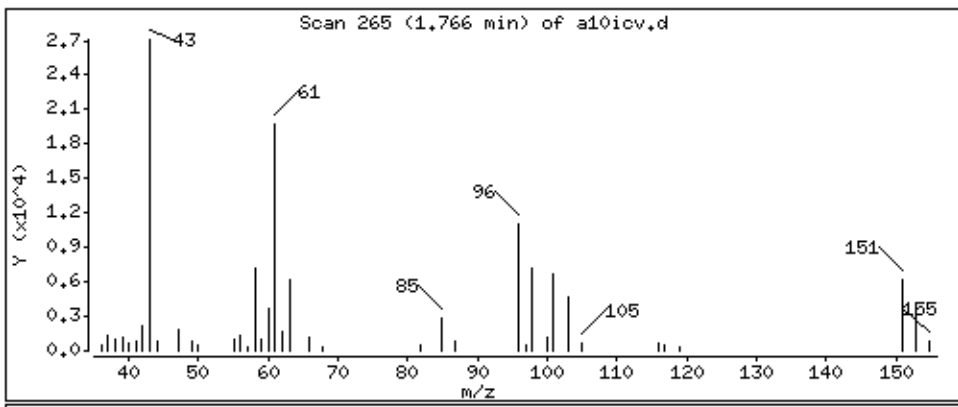
Client ID: 8260-ICV | Instrument: 50mv5a.i

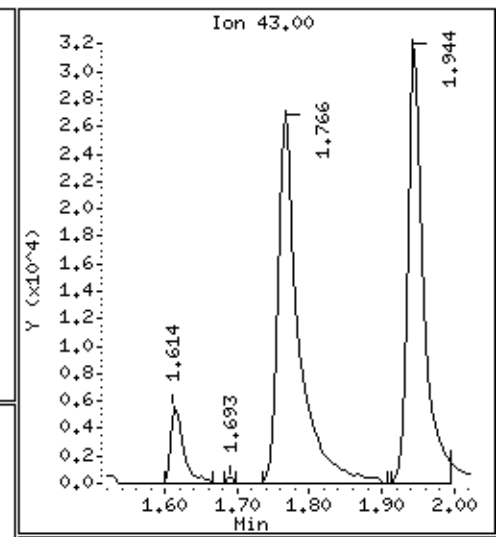
Sample Info: 8260-ICV,140022:0

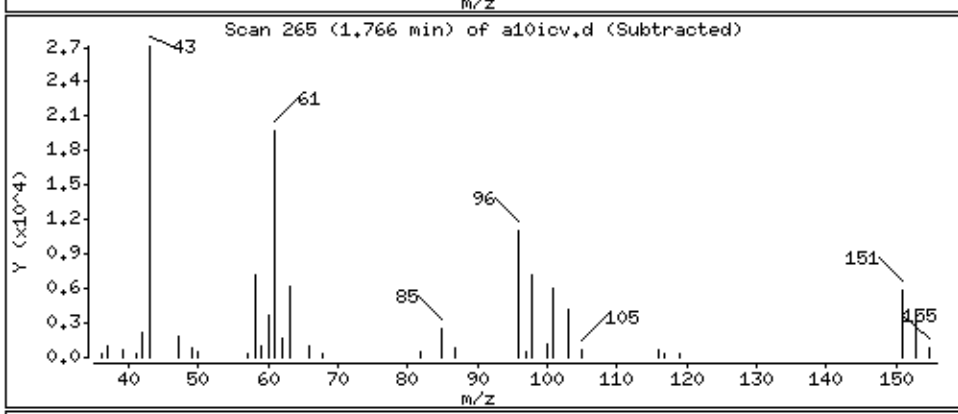
Purge Volume: 5.0 | Operator: TMW

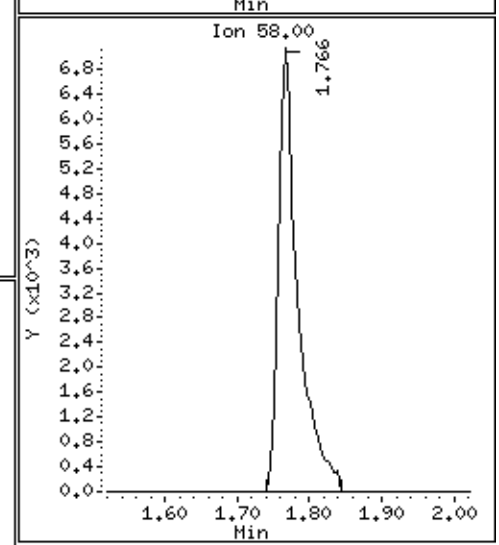
Column phase: DB-624 | Column diameter: 0.18

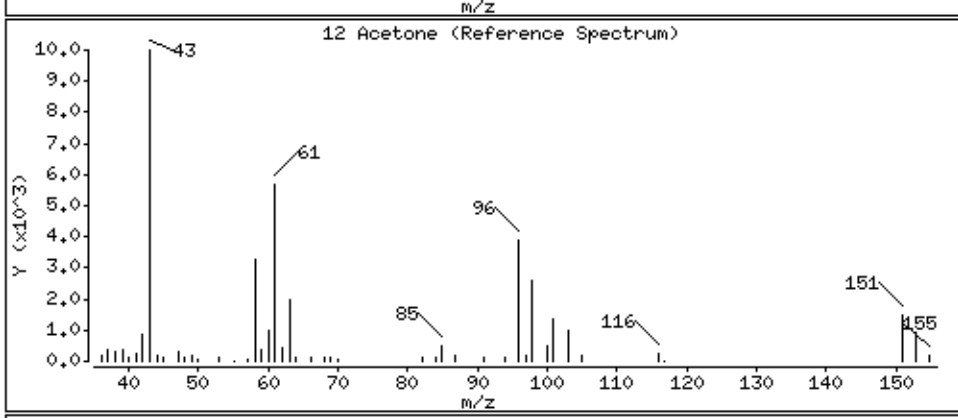
12 Acetone | Concentration: 267 ppb

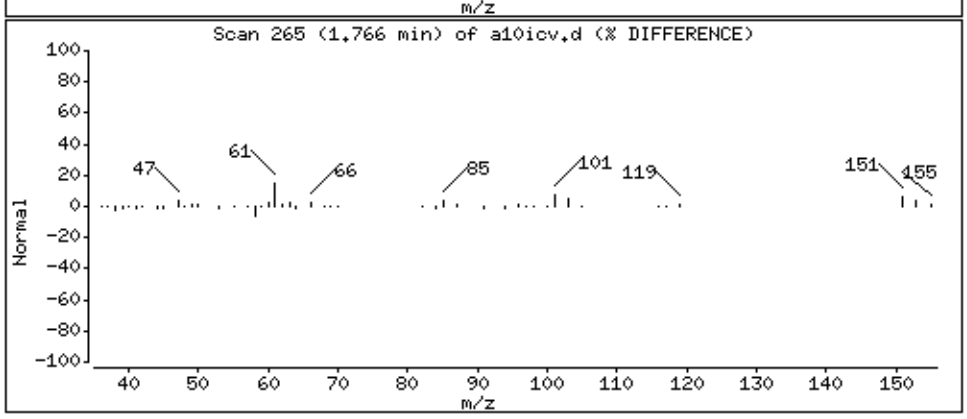












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

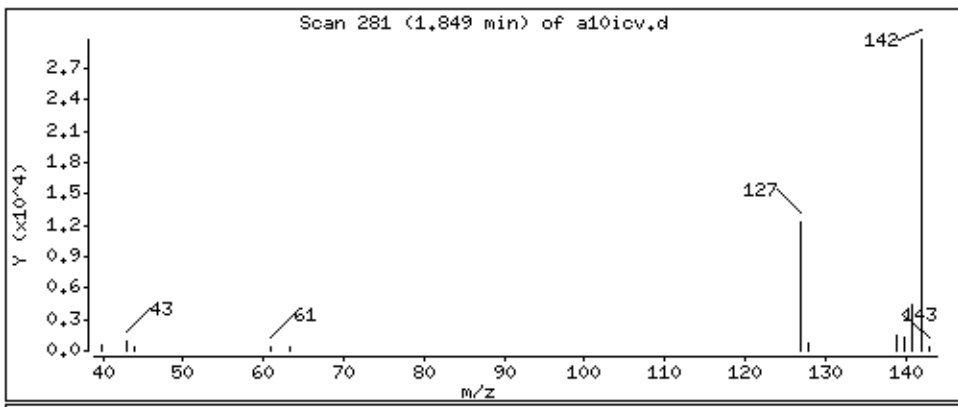
Client ID: 8260-ICV | Instrument: 50mv5a.i

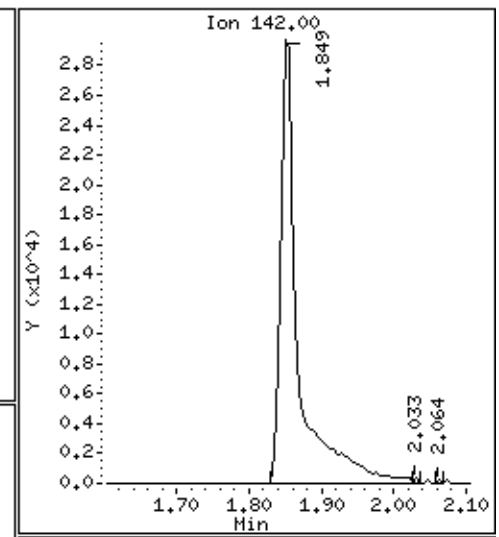
Sample Info: 8260-ICV,140022:0

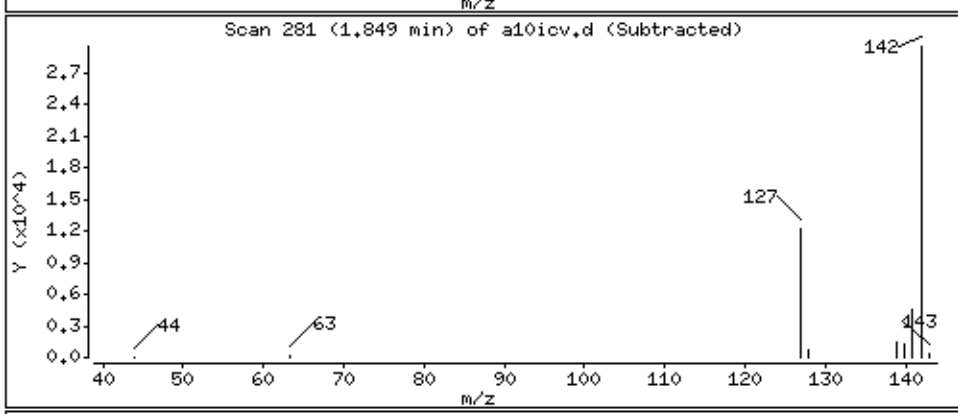
Purge Volume: 5.0 | Operator: TMW

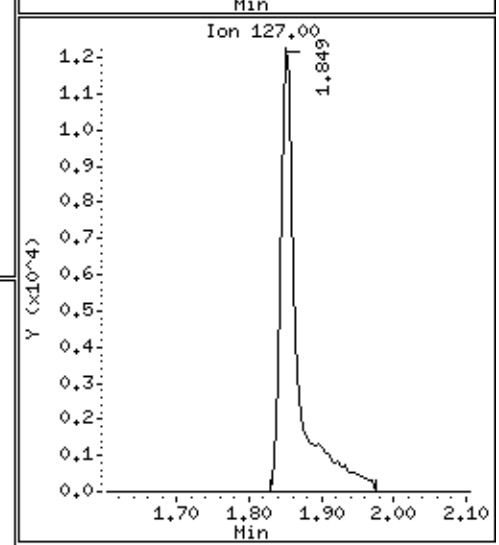
Column phase: DB-624 | Column diameter: 0.18

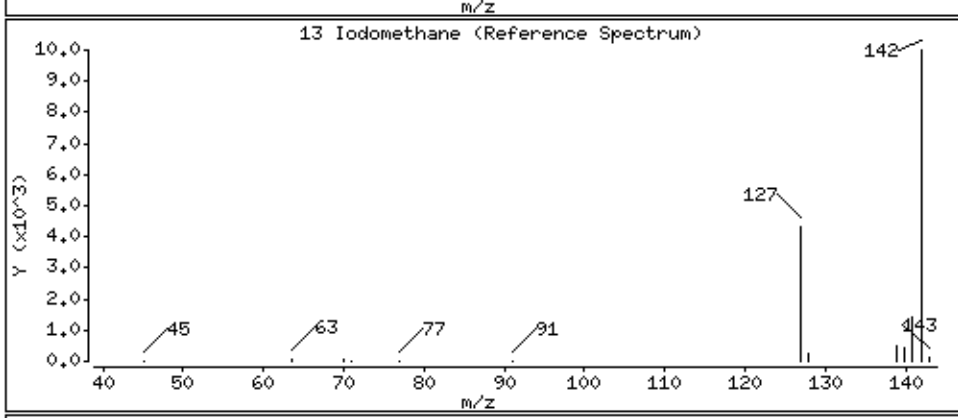
13 Iodomethane | Concentration: 86.9 ppb

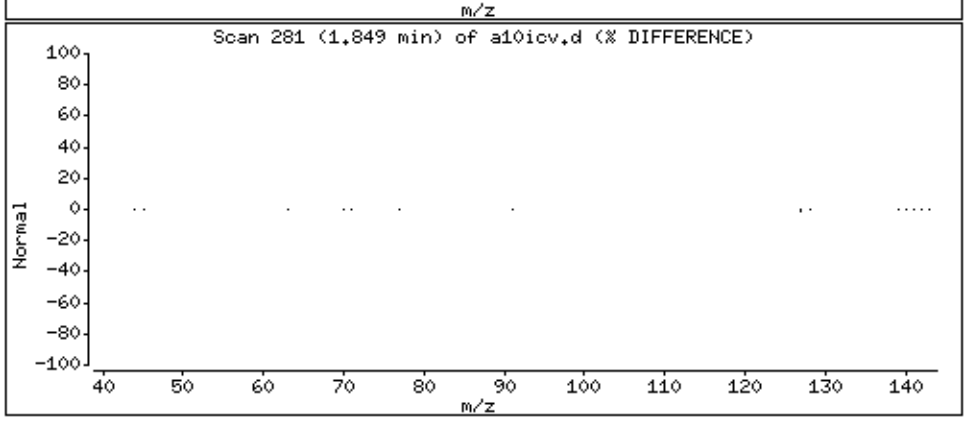












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

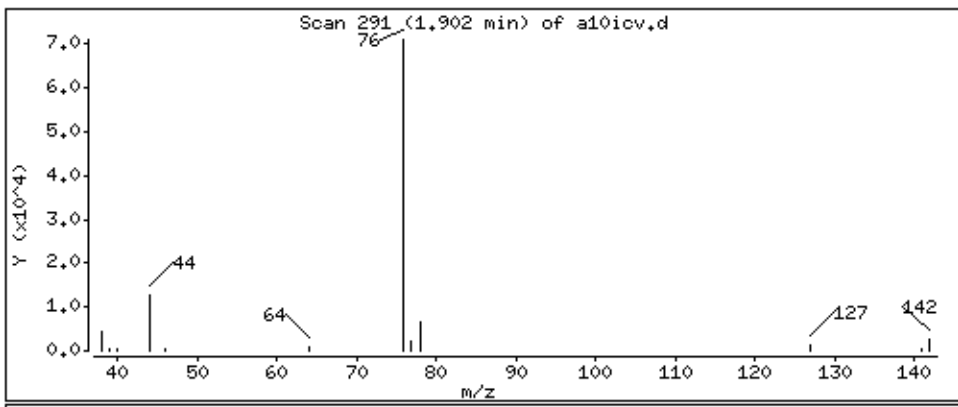
Client ID: 8260-ICV | Instrument: 50mv5a.i

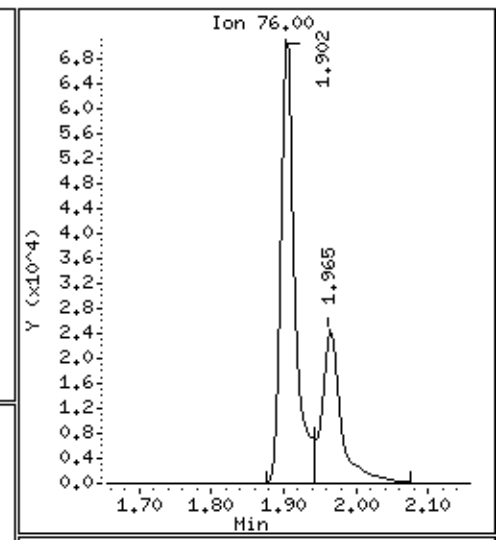
Sample Info: 8260-ICV,140022:0

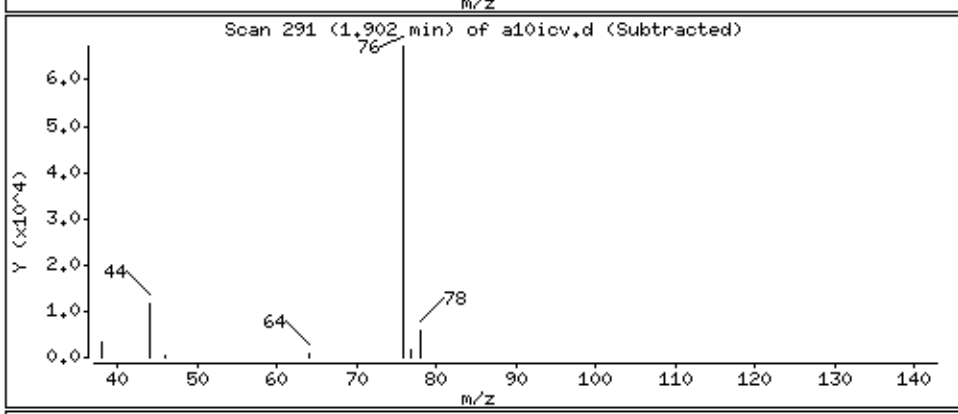
Purge Volume: 5.0 | Operator: TMW

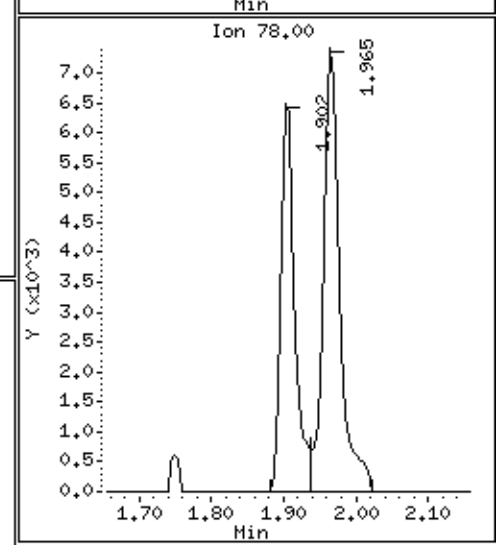
Column phase: DB-624 | Column diameter: 0.18

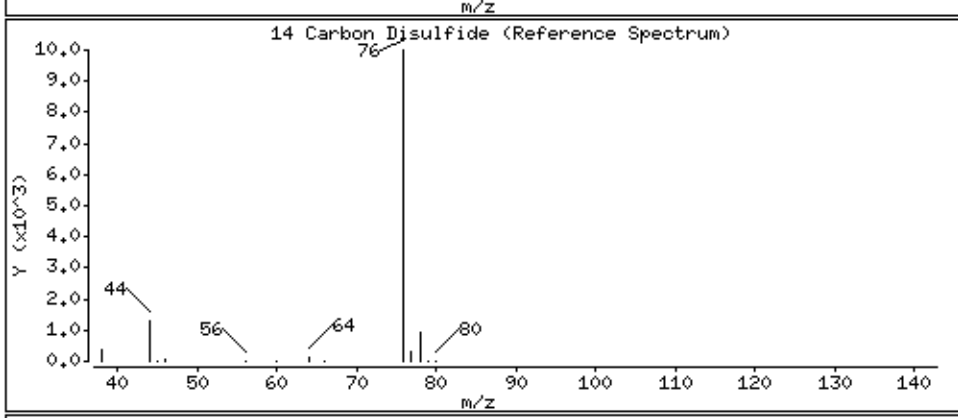
14 Carbon Disulfide | Concentration: 47.0 ppb

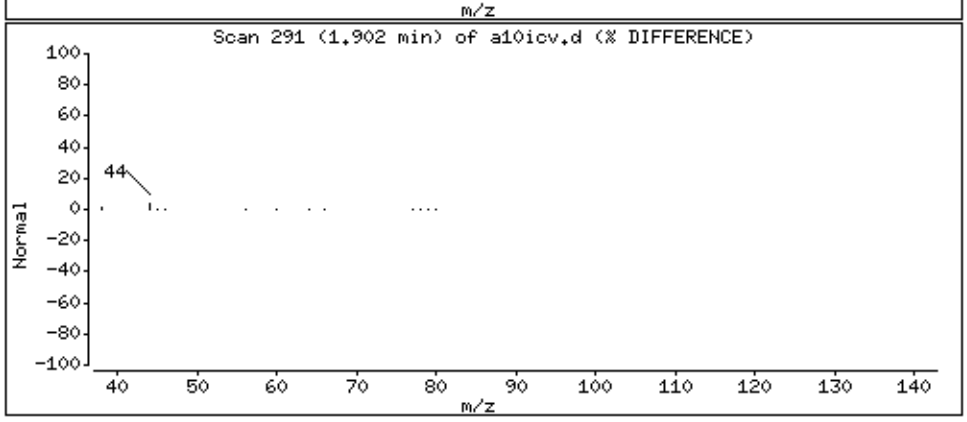












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Date : 16-JAN-2017 18:29

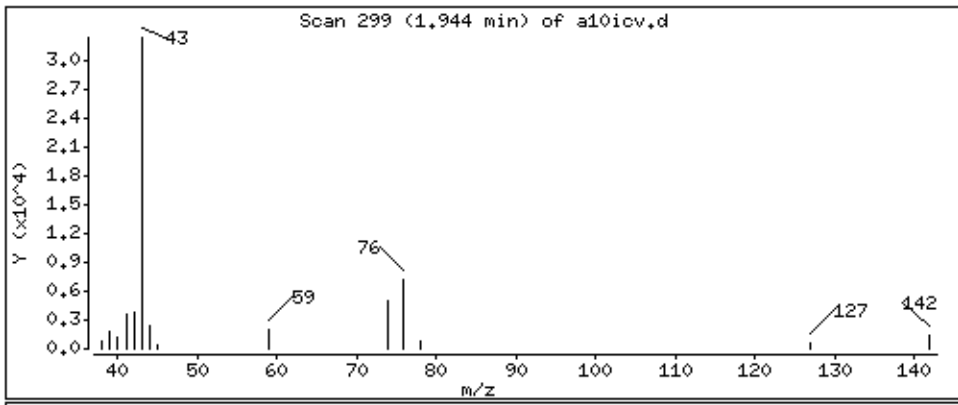
Client ID: 8260-ICV | Instrument: 50mv5a.i

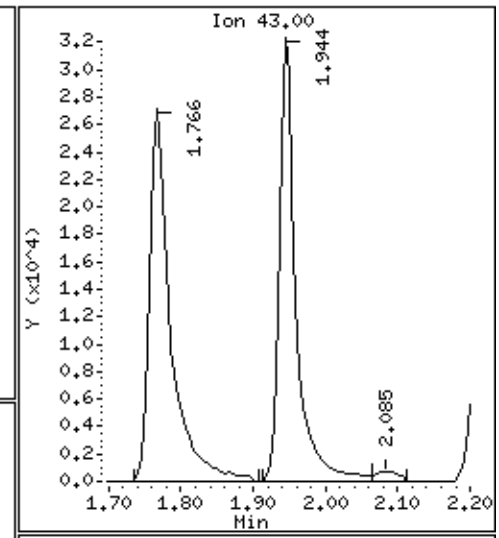
Sample Info: 8260-ICV,140022:0

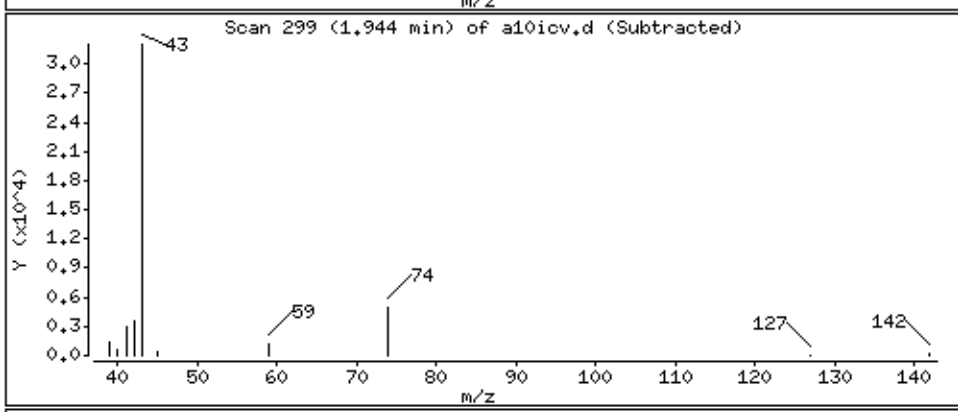
Purge Volume: 5.0 | Operator: TMW

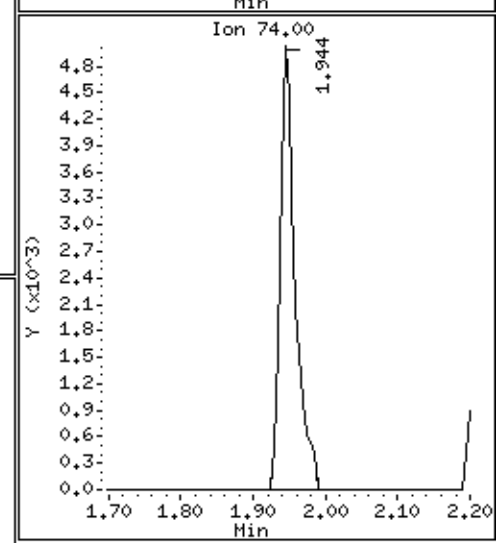
Column phase: DB-624 | Column diameter: 0.18

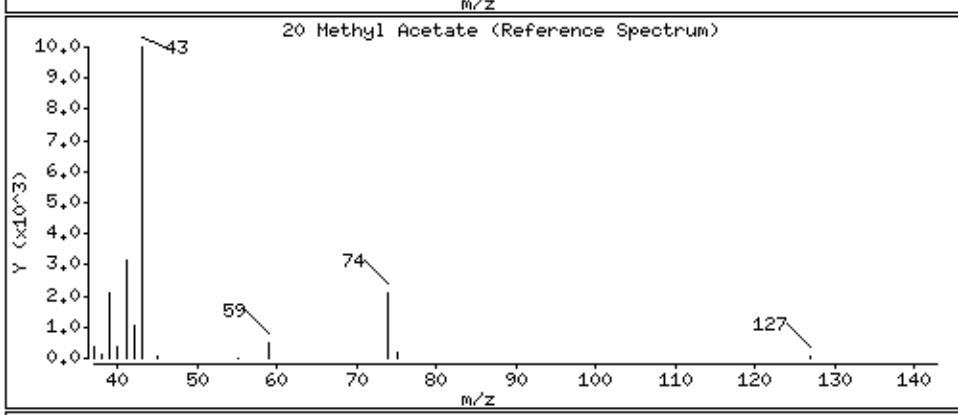
20 Methyl Acetate | Concentration: 90.0 ppb

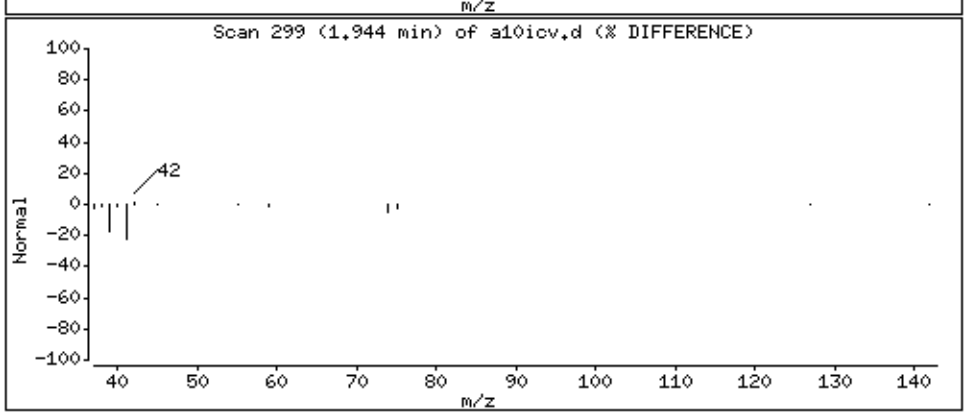












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

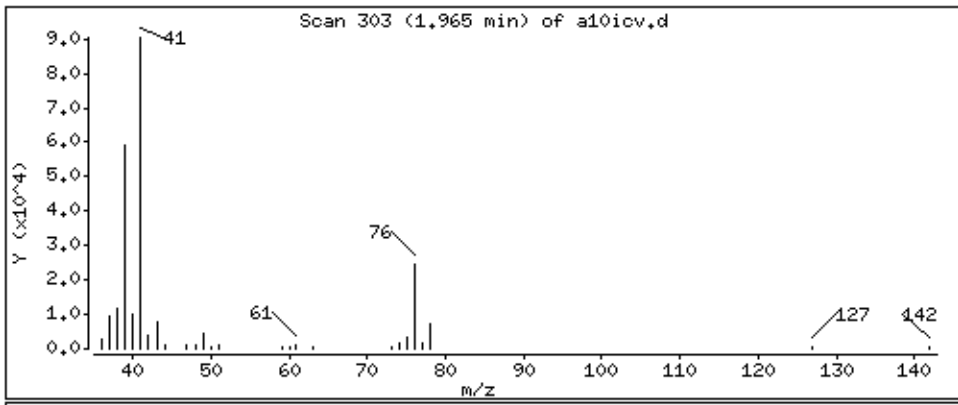
Client ID: 8260-ICV | Instrument: 50mv5a.i

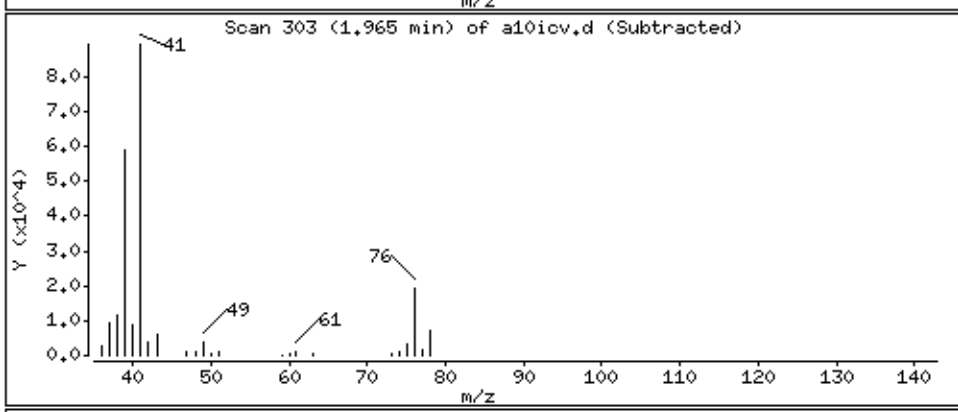
Sample Info: 8260-ICV,140022:0

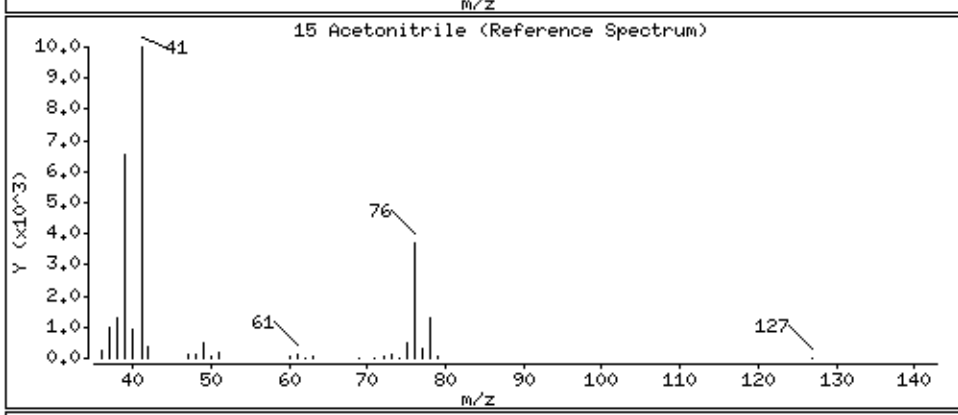
Purge Volume: 5.0 | Operator: TMW

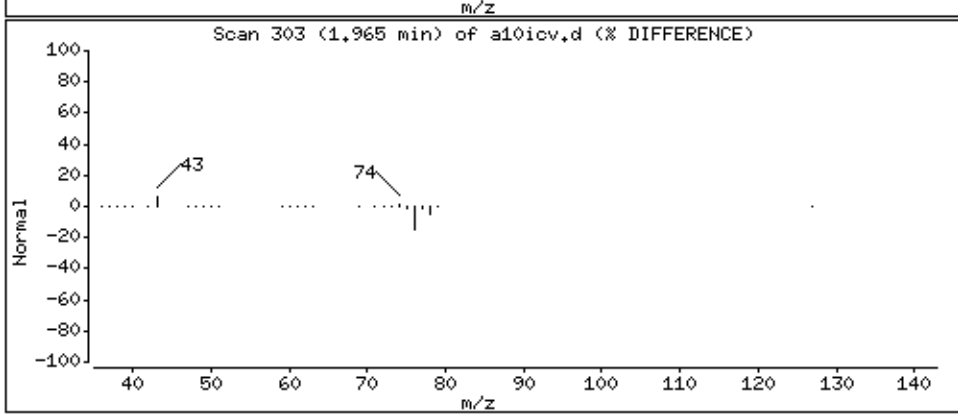
Column phase: DB-624 | Column diameter: 0.18

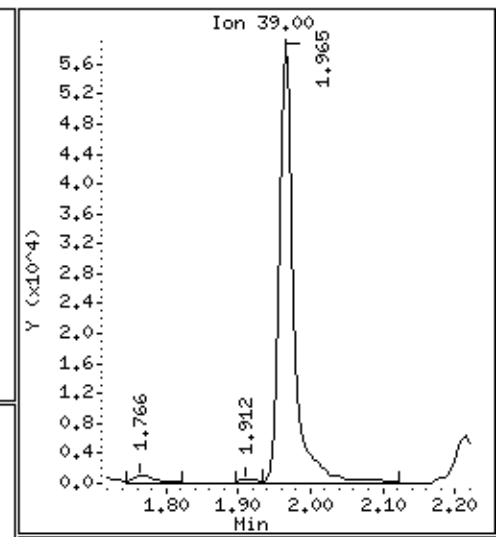
15 Acetonitrile | Concentration: 49.3 ppb

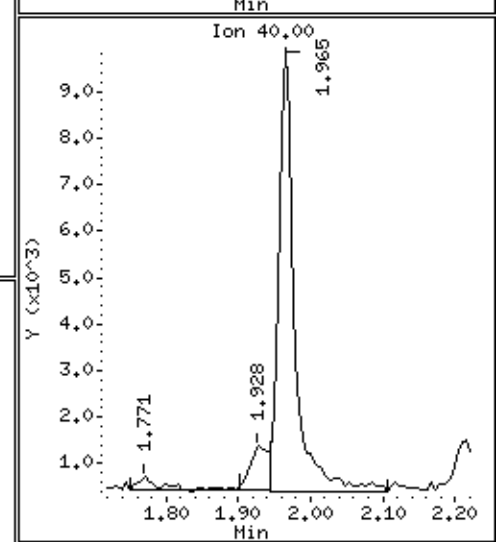


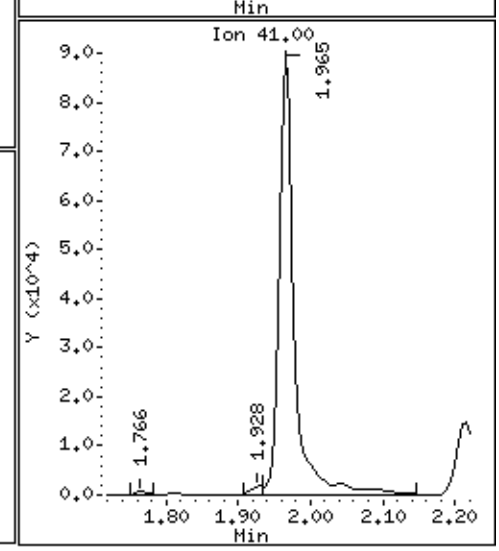












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

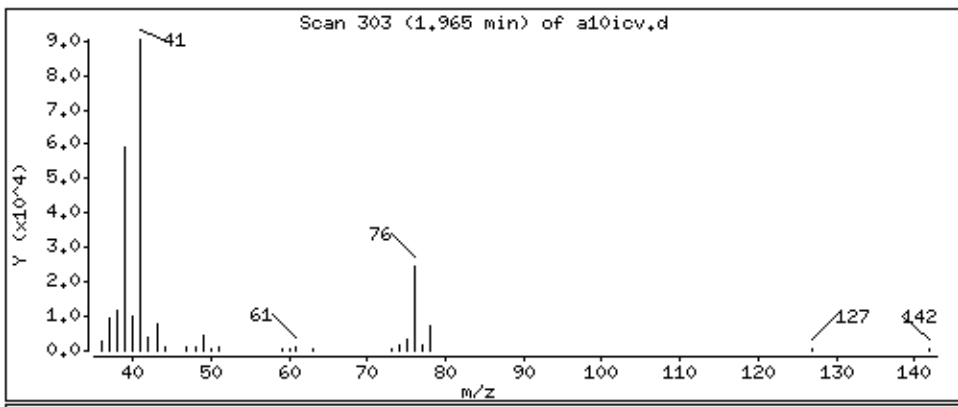
Client ID: 8260-ICV | Instrument: 50mv5a.i

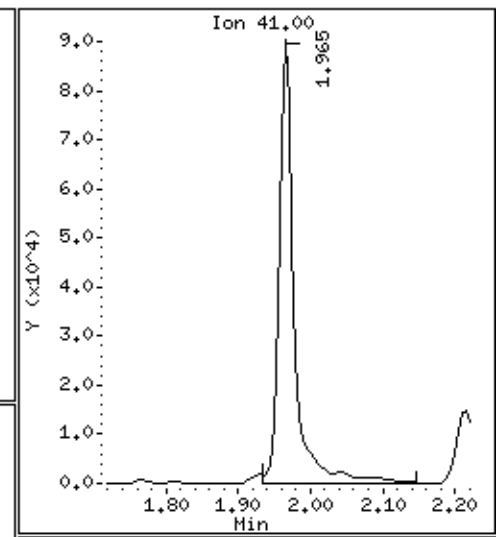
Sample Info: 8260-ICV,140022:0

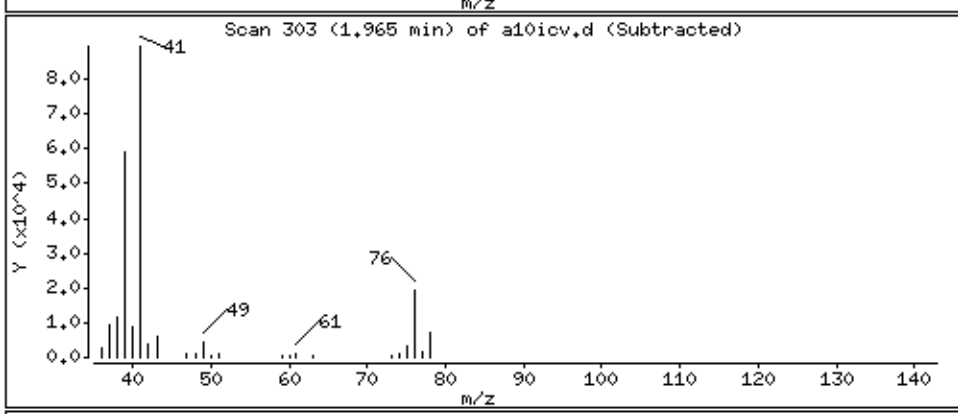
Purge Volume: 5.0 | Operator: TMW

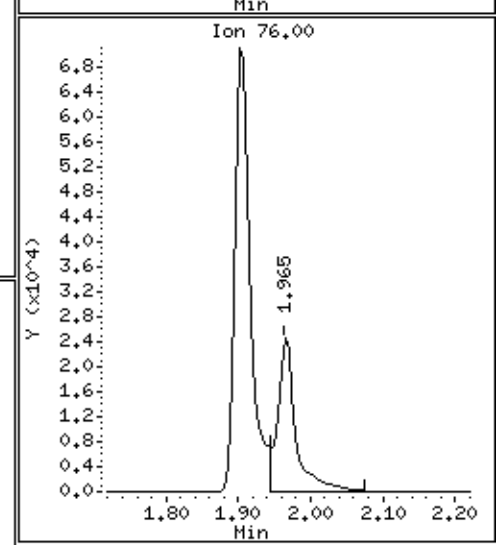
Column phase: DB-624 | Column diameter: 0.18

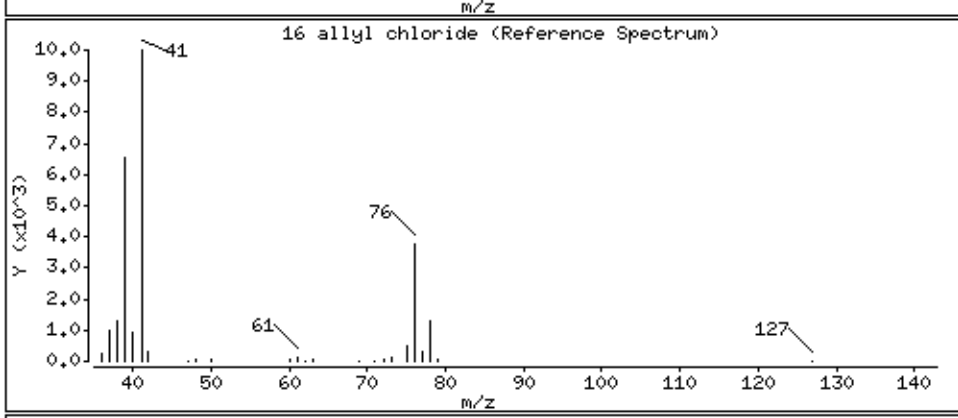
16 allyl chloride | Concentration: 101 ppb

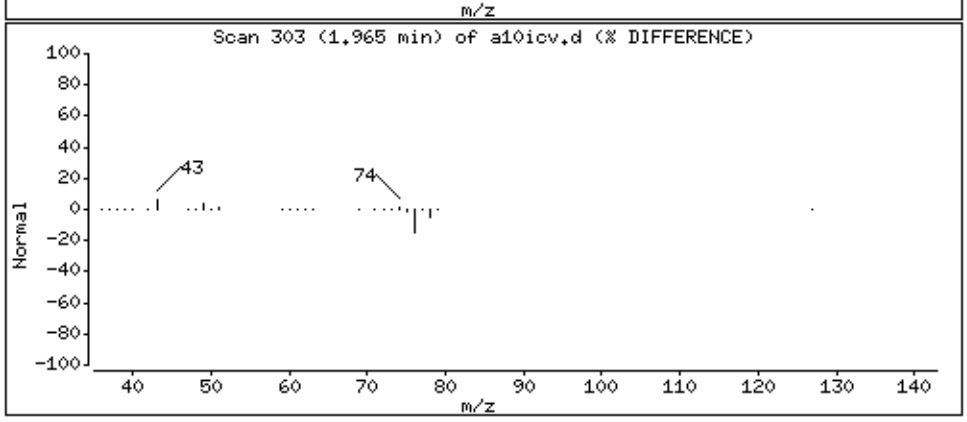












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

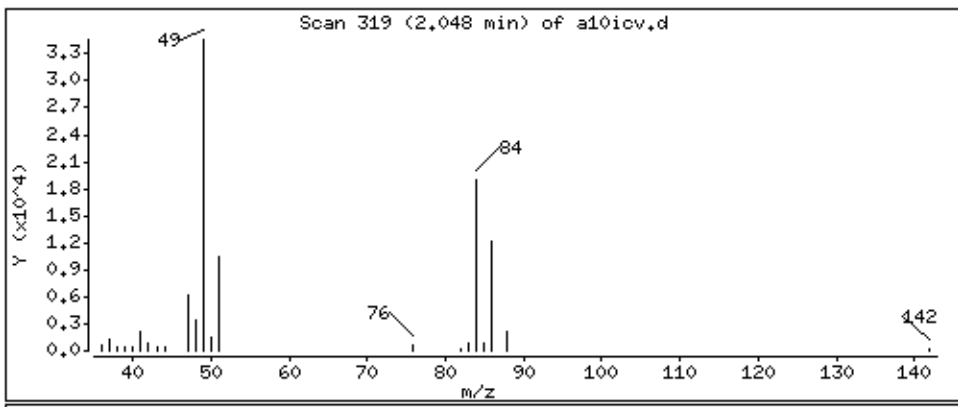
Client ID: 8260-ICV | Instrument: 50mv5a.i

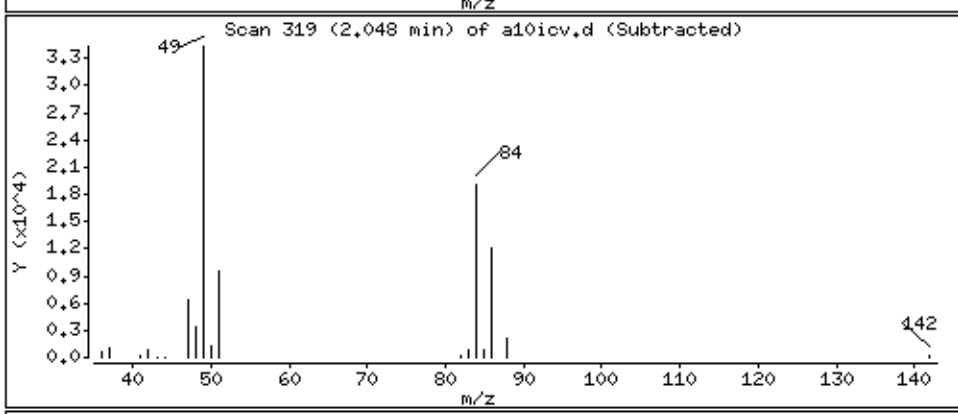
Sample Info: 8260-ICV,140022:0

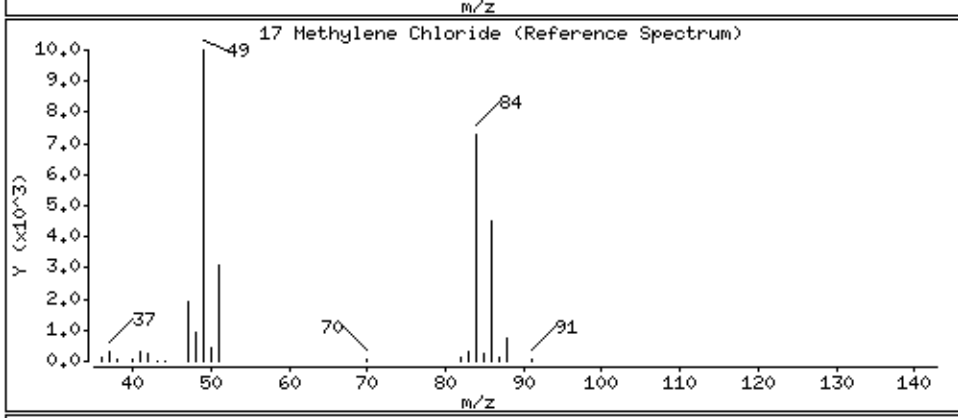
Purge Volume: 5.0 | Operator: TMW

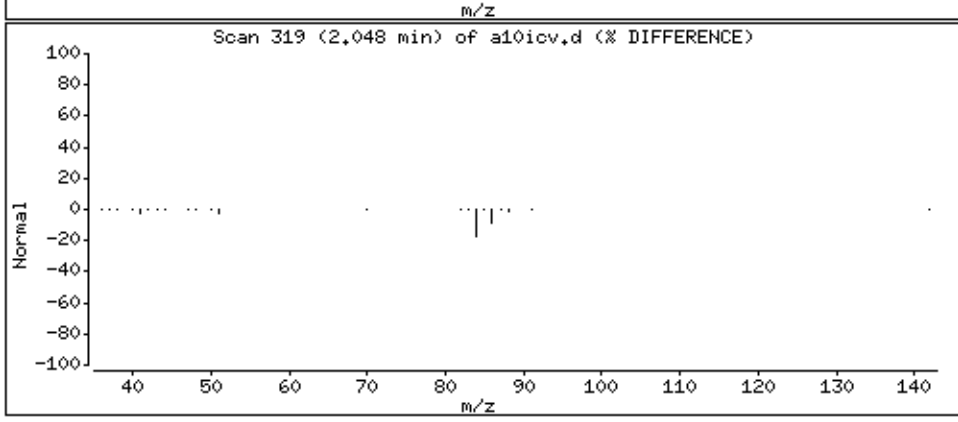
Column phase: DB-624 | Column diameter: 0.18

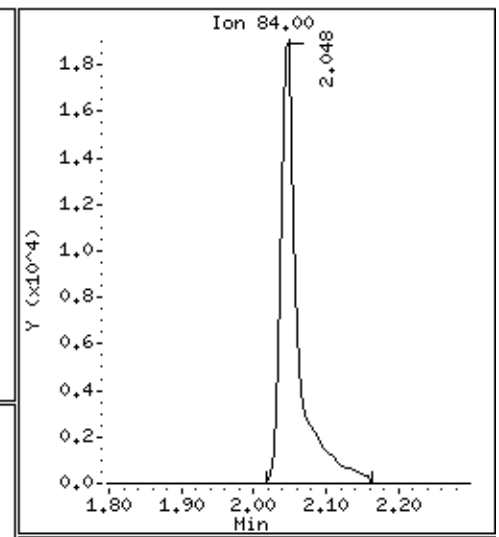
17 Methylene Chloride | Concentration: 48.6 ppb

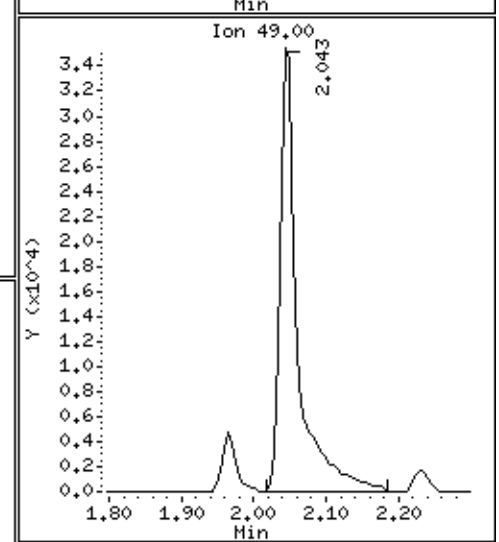


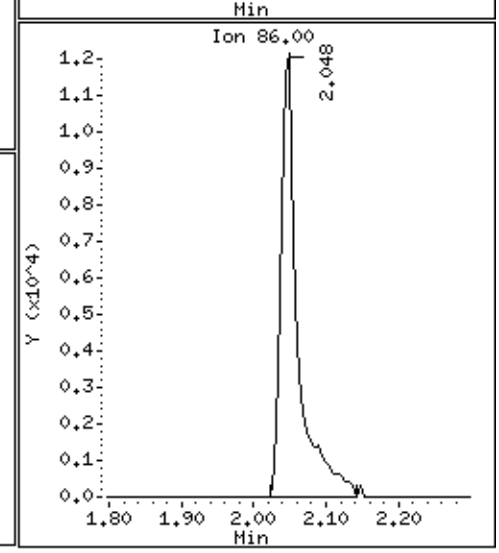












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

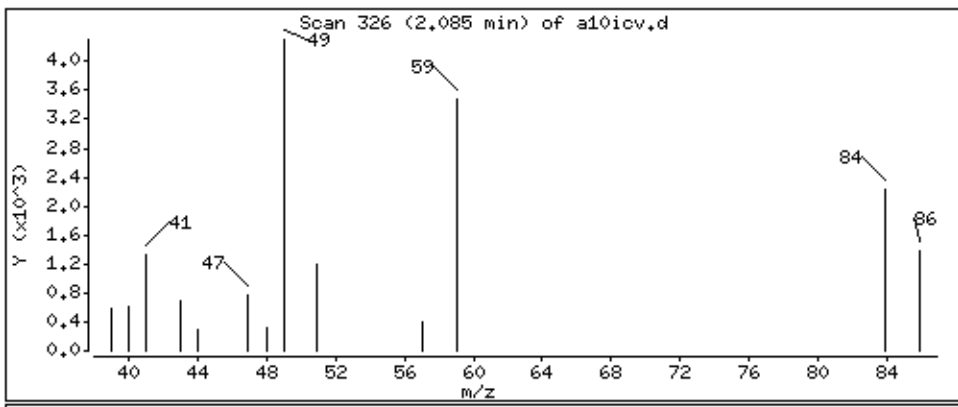
Client ID: 8260-ICV | Instrument: 50mv5a.i

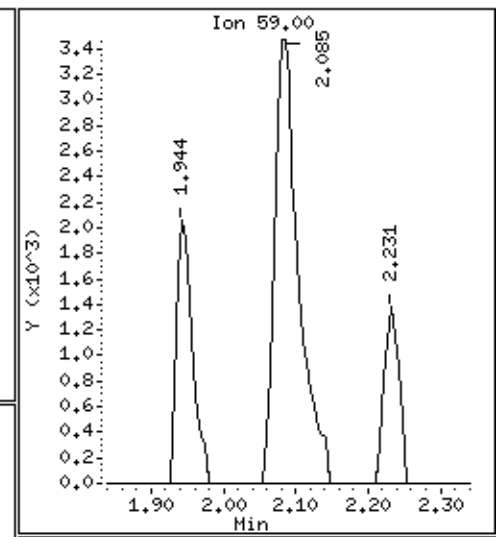
Sample Info: 8260-ICV,140022:0

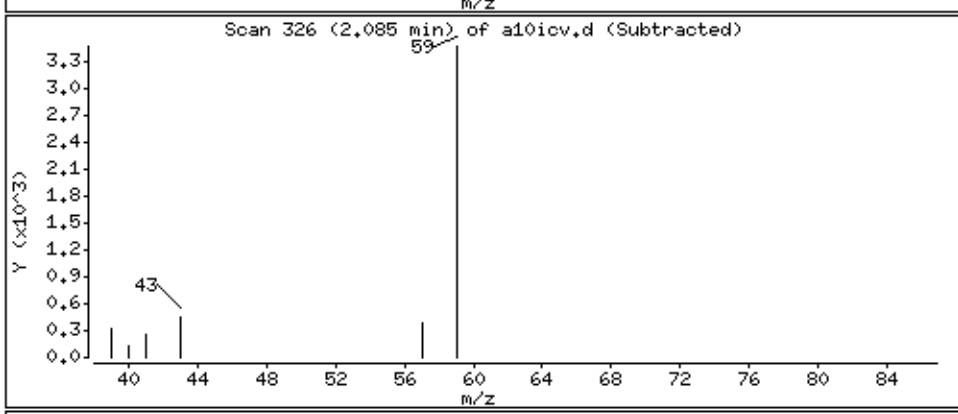
Purge Volume: 5.0 | Operator: TMW

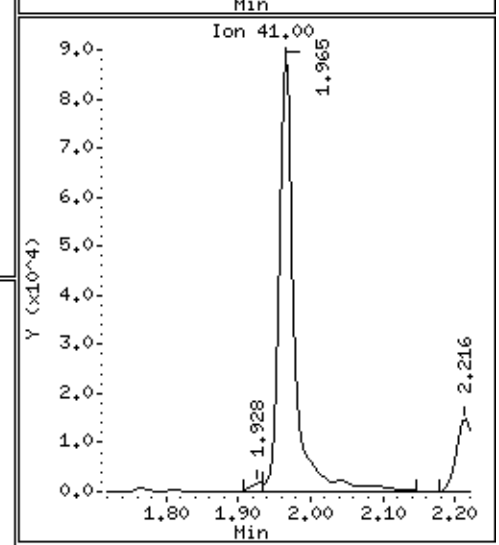
Column phase: DB-624 | Column diameter: 0.18

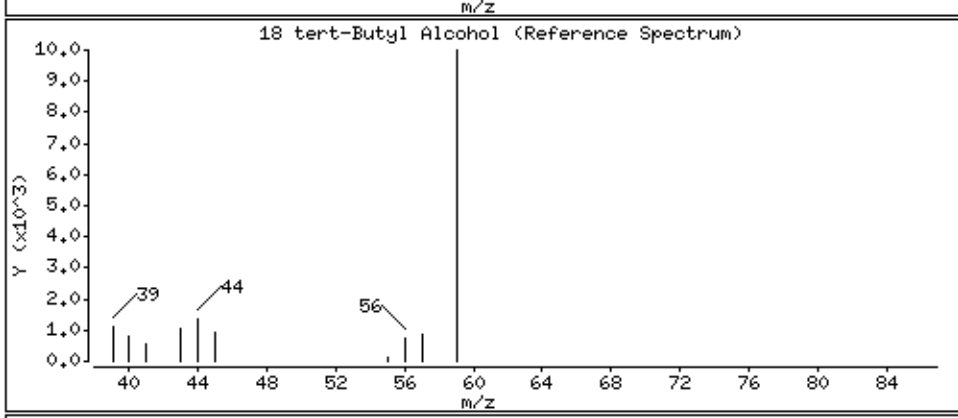
18 tert-Butyl Alcohol | Concentration: 109 ppb

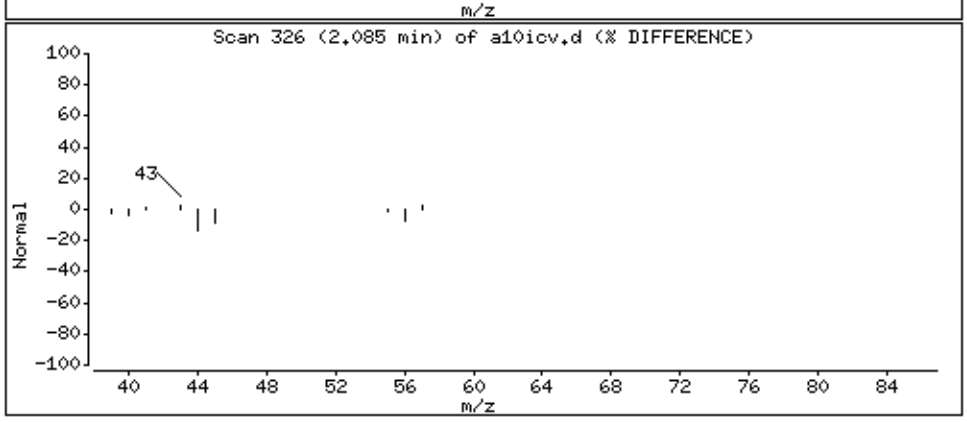












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Date : 16-JAN-2017 18:29

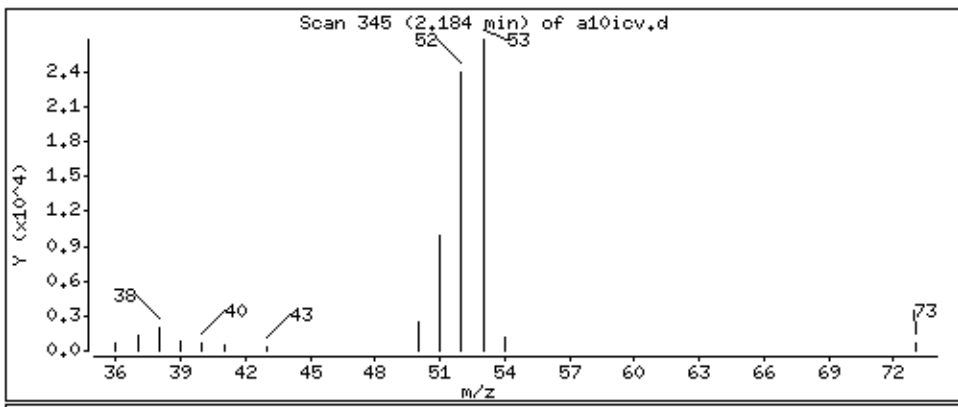
Client ID: 8260-ICV | Instrument: 50mv5a.i

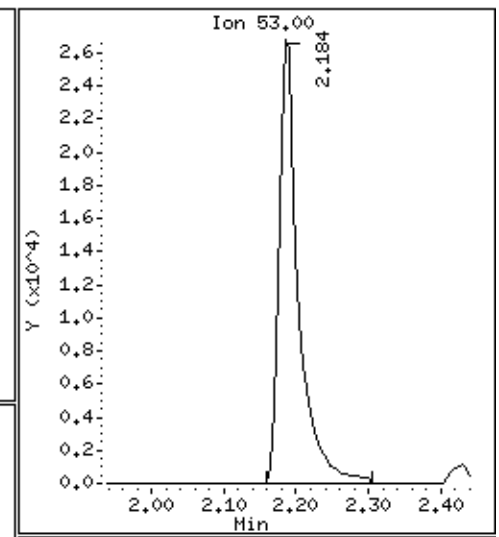
Sample Info: 8260-ICV,140022:0

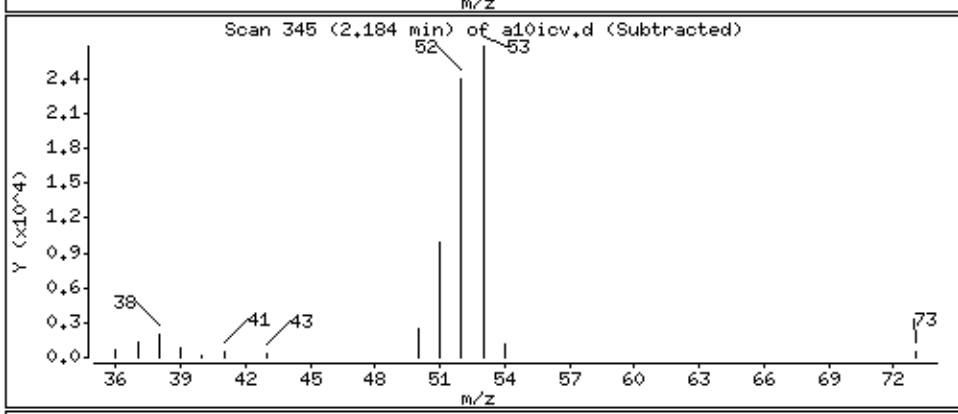
Purge Volume: 5.0 | Operator: TMW

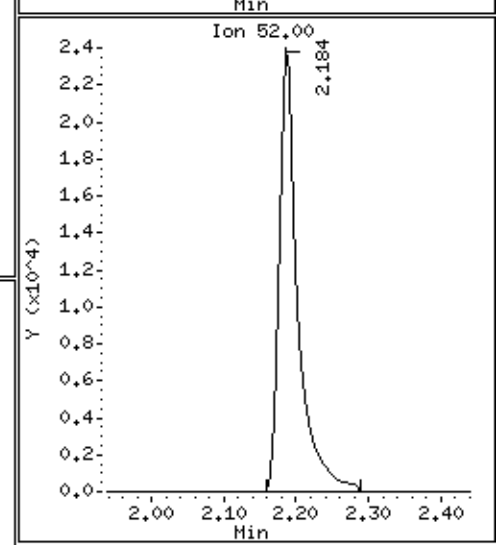
Column phase: DB-624 | Column diameter: 0.18

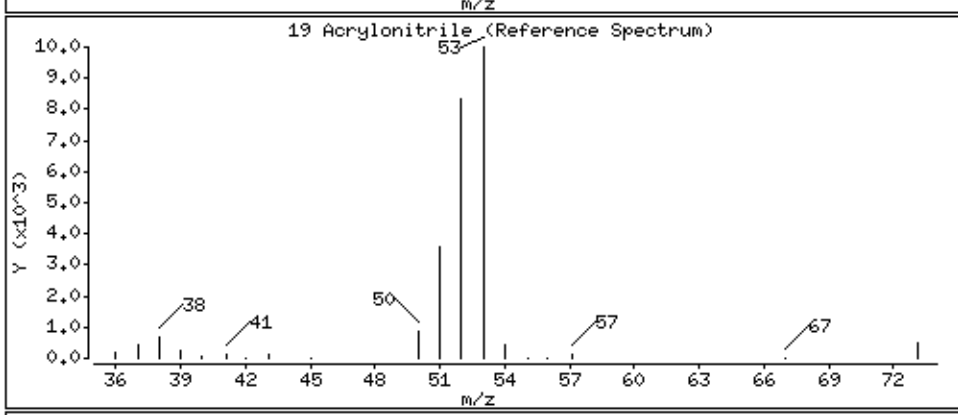
19 Acrylonitrile | Concentration: 200 ppb

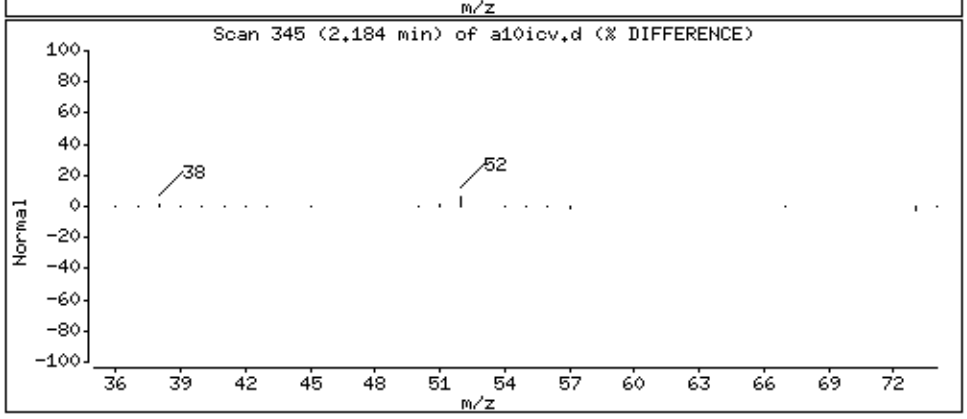












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

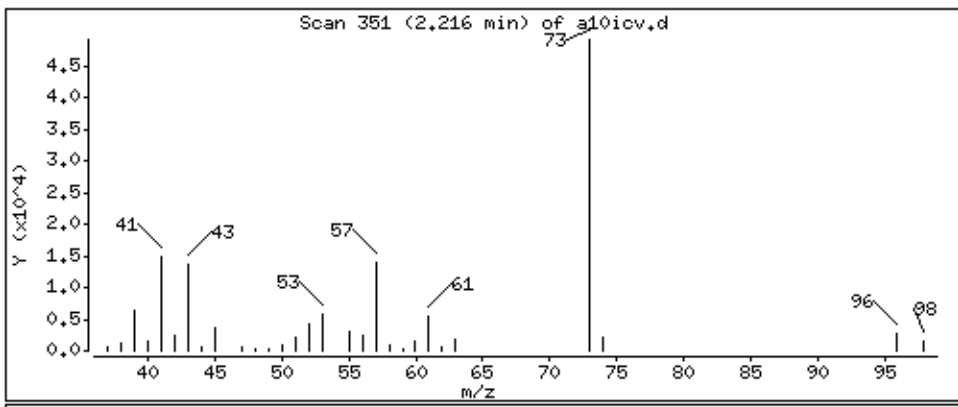
Client ID: 8260-ICV | Instrument: 50mv5a.i

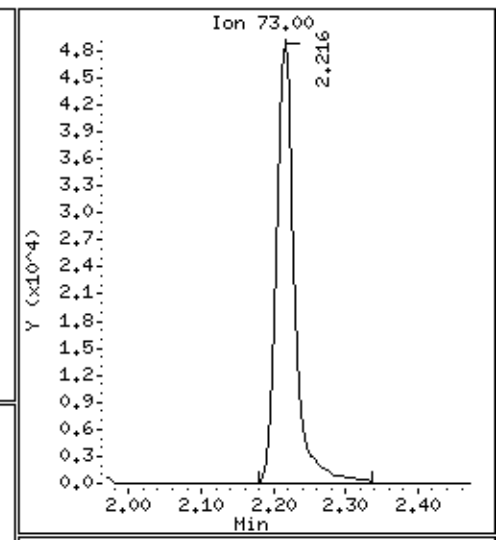
Sample Info: 8260-ICV,140022:0

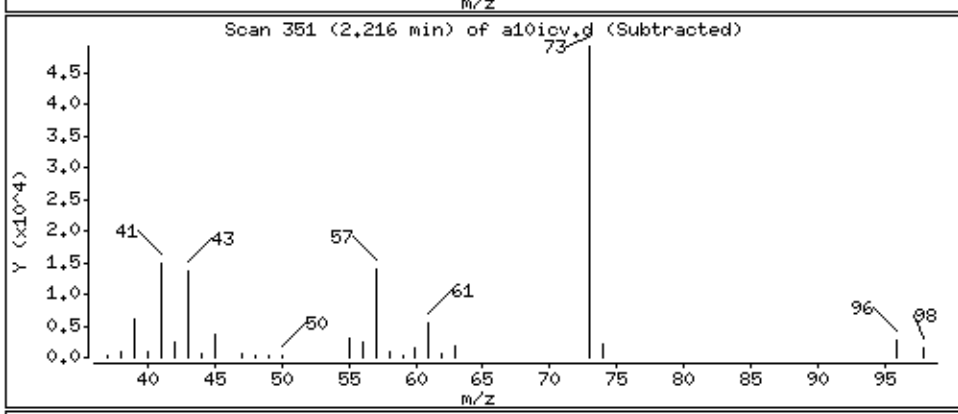
Purge Volume: 5.0 | Operator: TMW

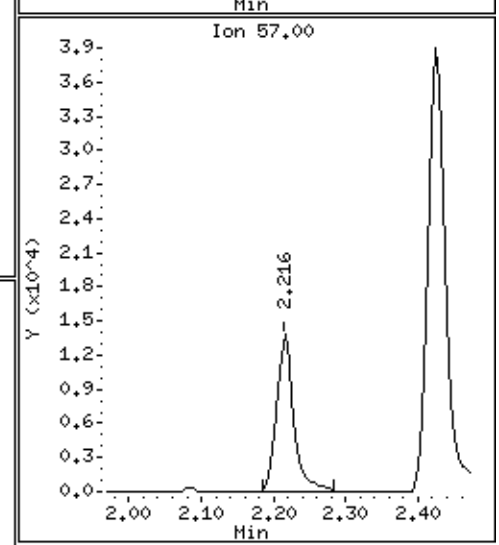
Column phase: DB-624 | Column diameter: 0.18

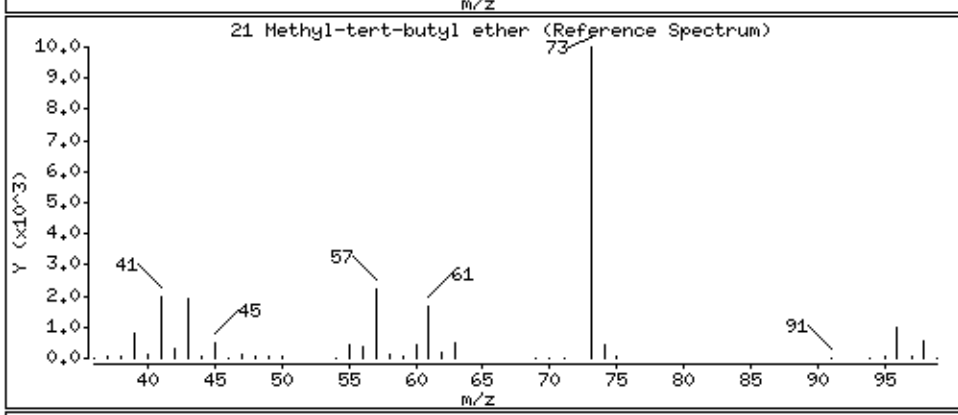
21 Methyl-tert-butyl ether | Concentration: 47.7 ppb

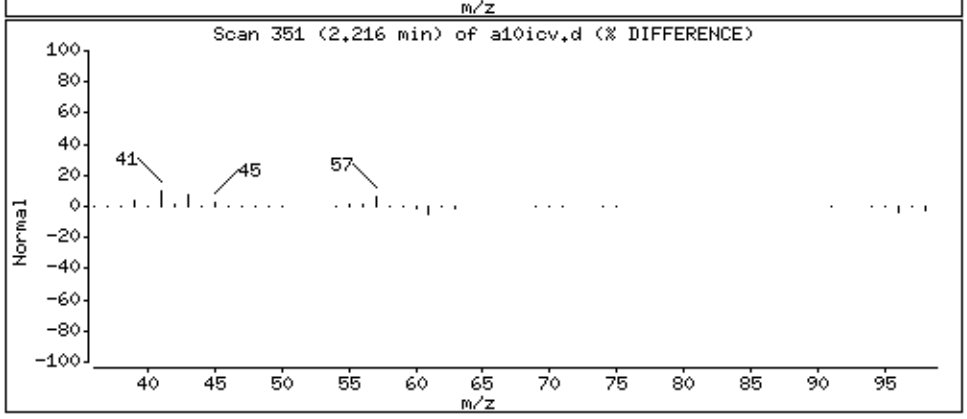












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

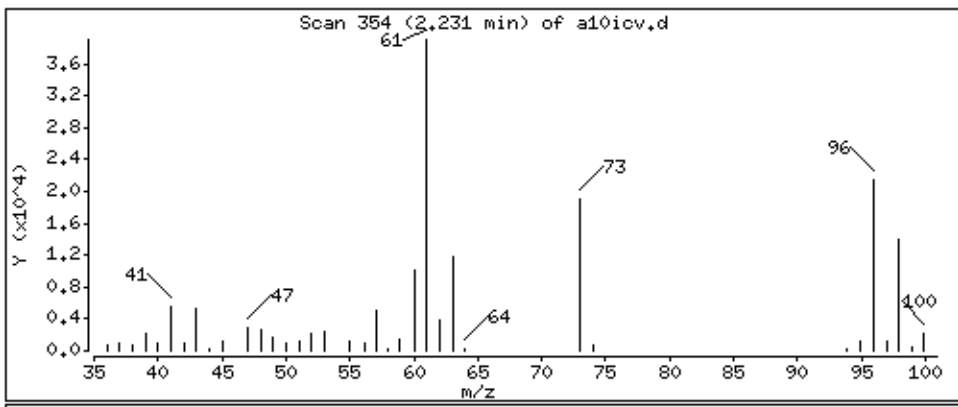
Client ID: 8260-ICV | Instrument: 50mv5a.i

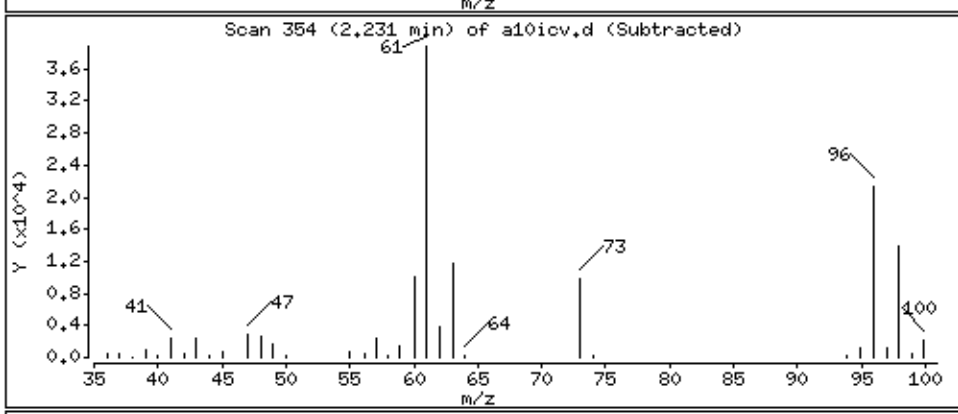
Sample Info: 8260-ICV,140022:0

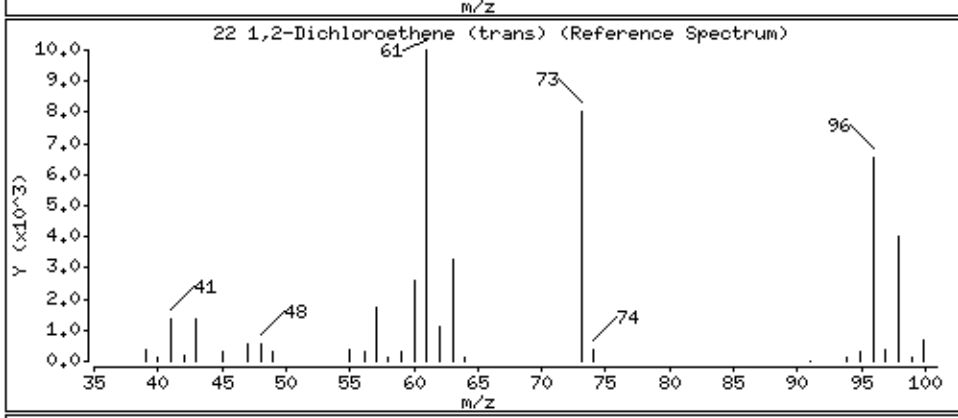
Purge Volume: 5.0 | Operator: TMW

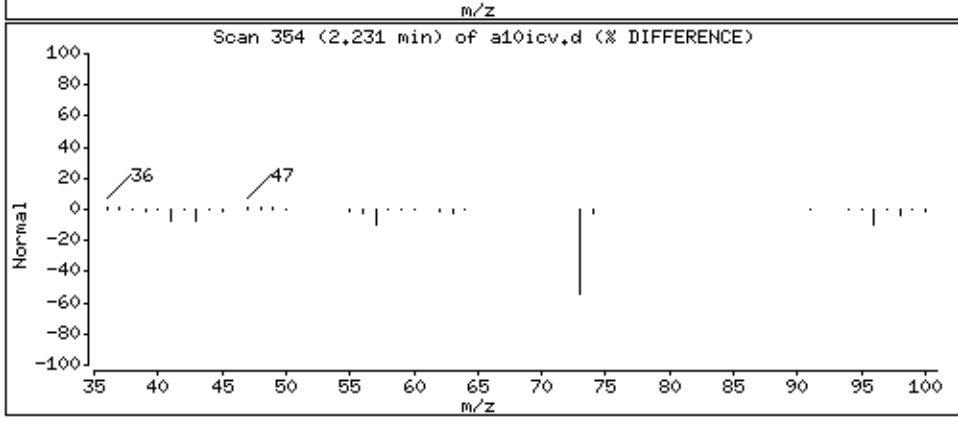
Column phase: DB-624 | Column diameter: 0.18

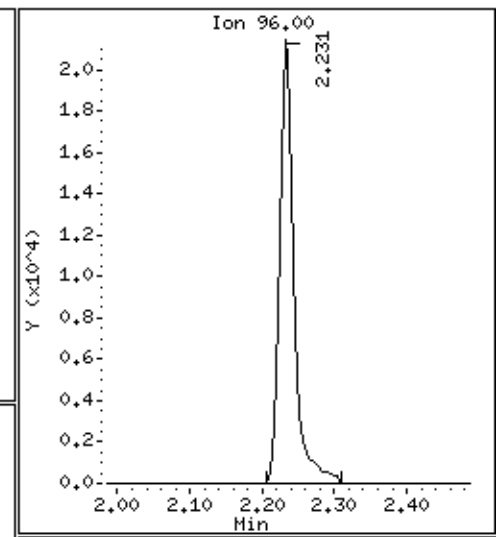
22 1,2-Dichloroethene (trans) | Concentration: 47.7 ppb

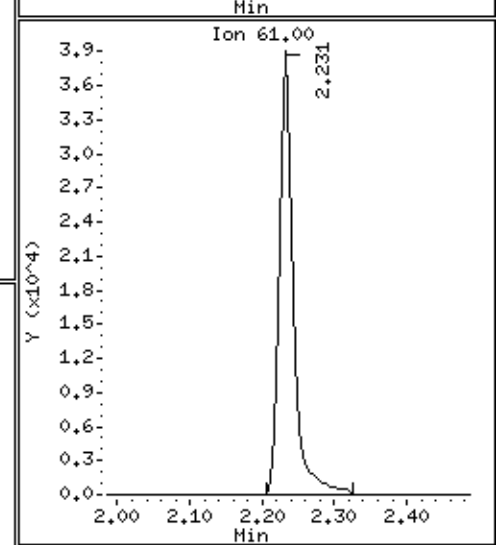


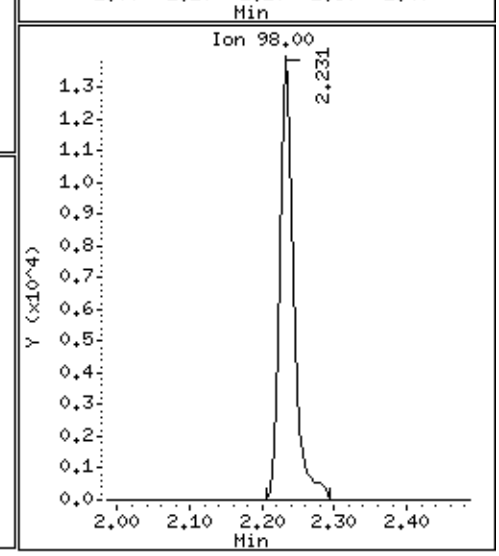












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

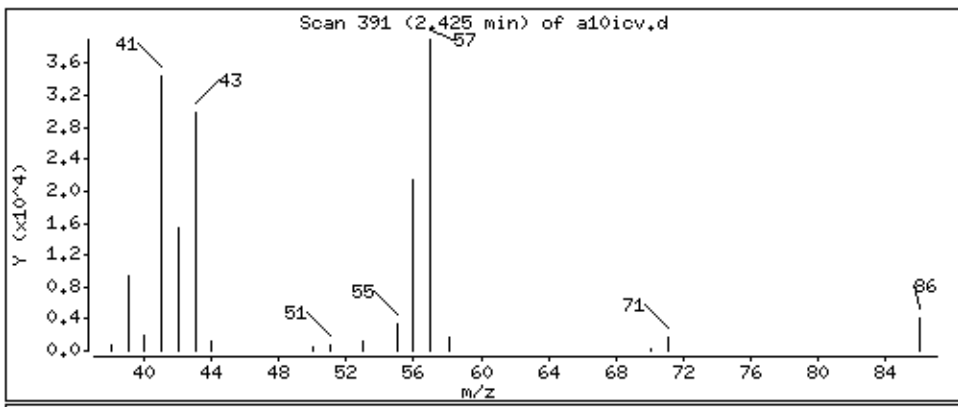
Client ID: 8260-ICV | Instrument: 50mv5a.i

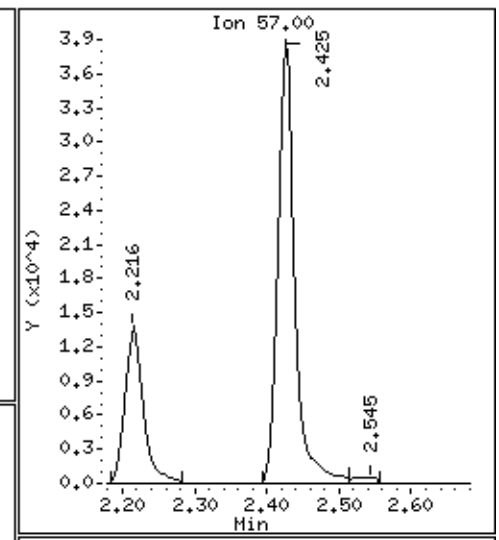
Sample Info: 8260-ICV,140022:0

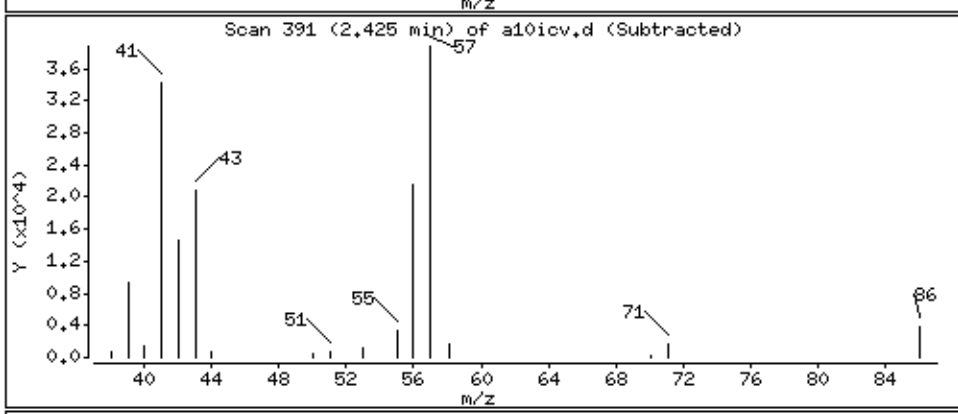
Purge Volume: 5.0 | Operator: TMW

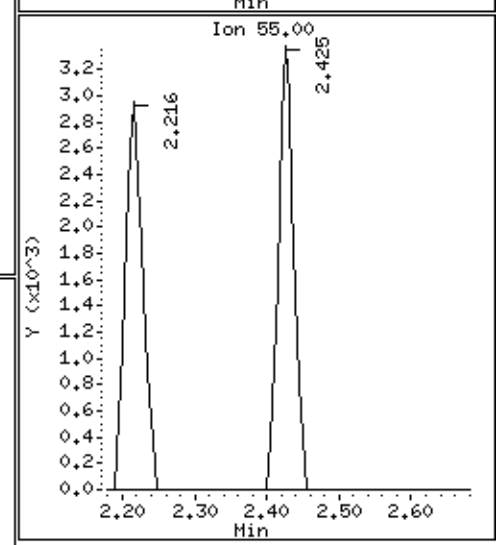
Column phase: DB-624 | Column diameter: 0.18

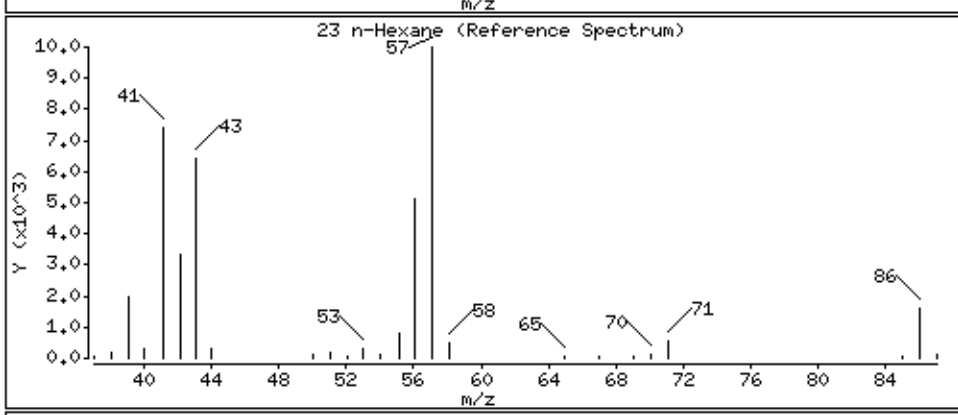
23 n-Hexane | Concentration: 50.0 ppb

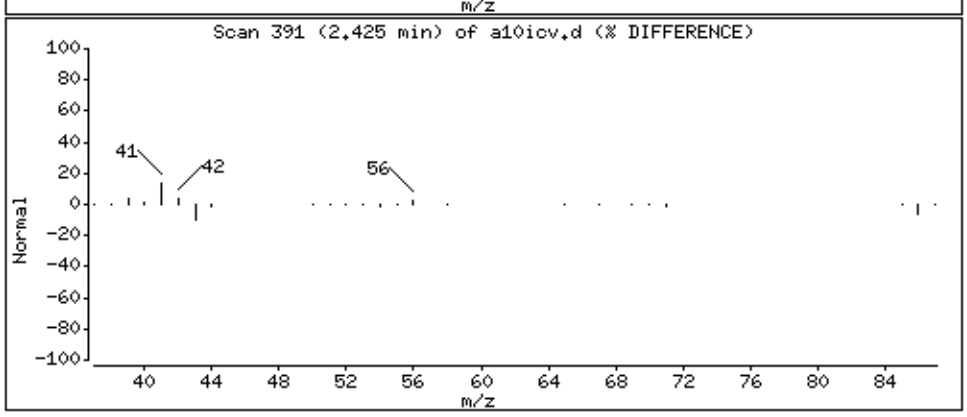












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

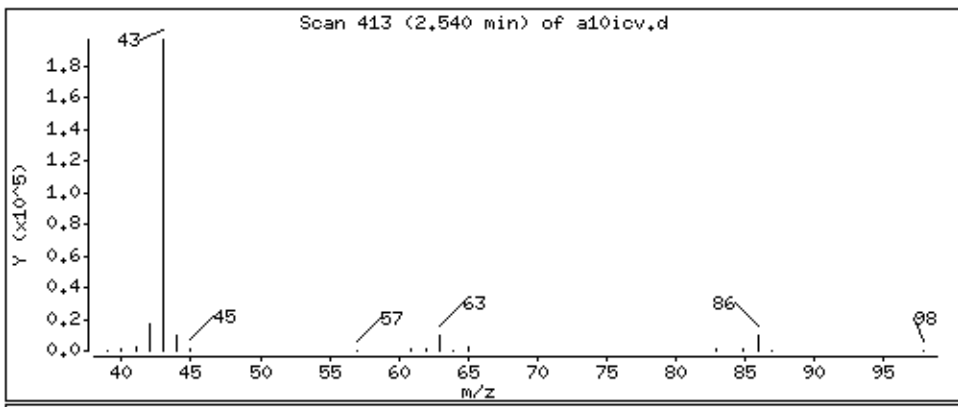
Client ID: 8260-ICV | Instrument: 50mv5a.i

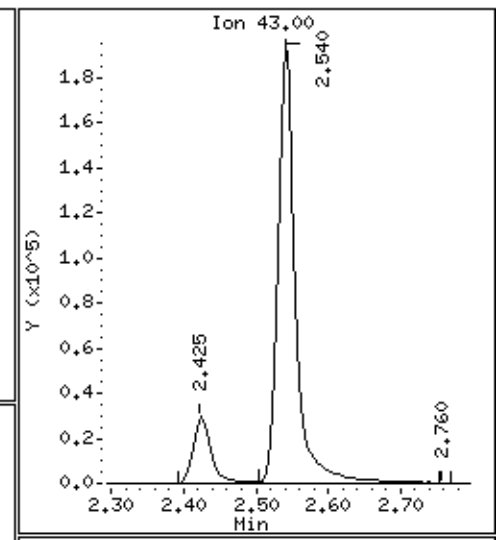
Sample Info: 8260-ICV,140022:0

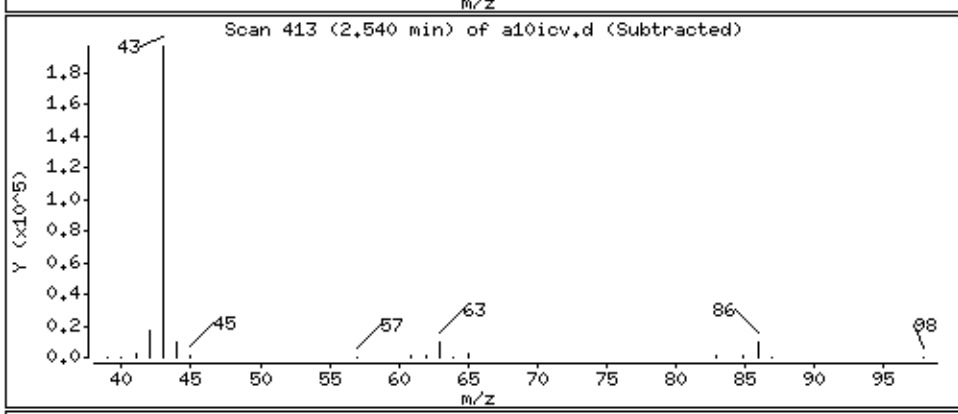
Purge Volume: 5.0 | Operator: TMW

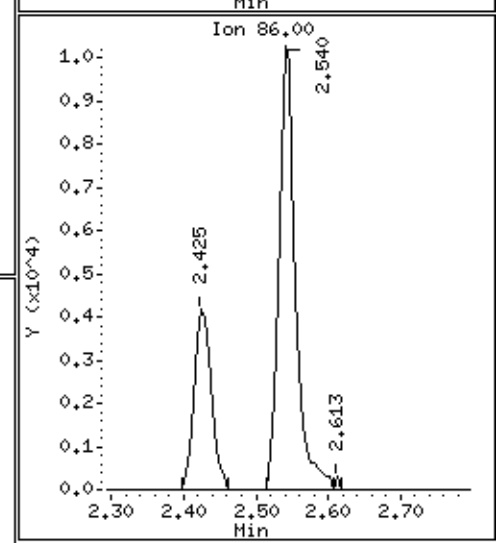
Column phase: DB-624 | Column diameter: 0.18

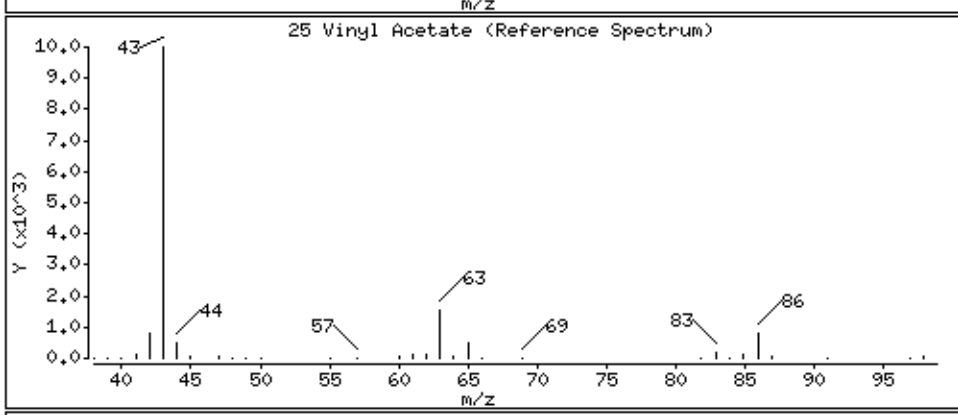
25 Vinyl Acetate | Concentration: 215 ppb

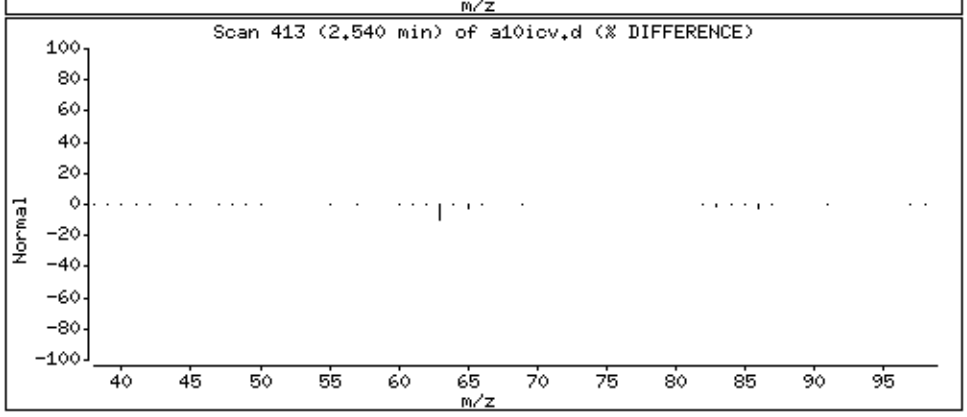












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

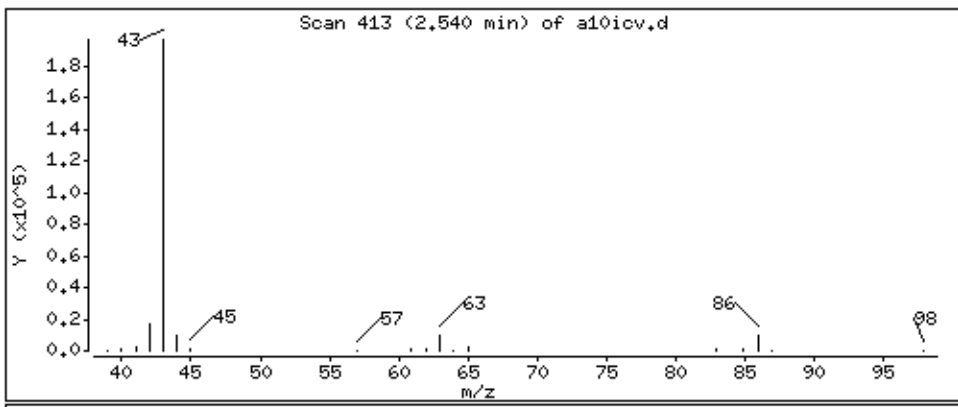
Client ID: 8260-ICV | Instrument: 50mv5a.i

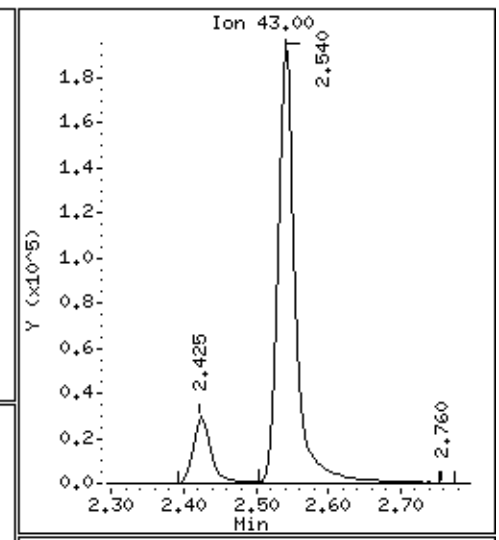
Sample Info: 8260-ICV,140022:0

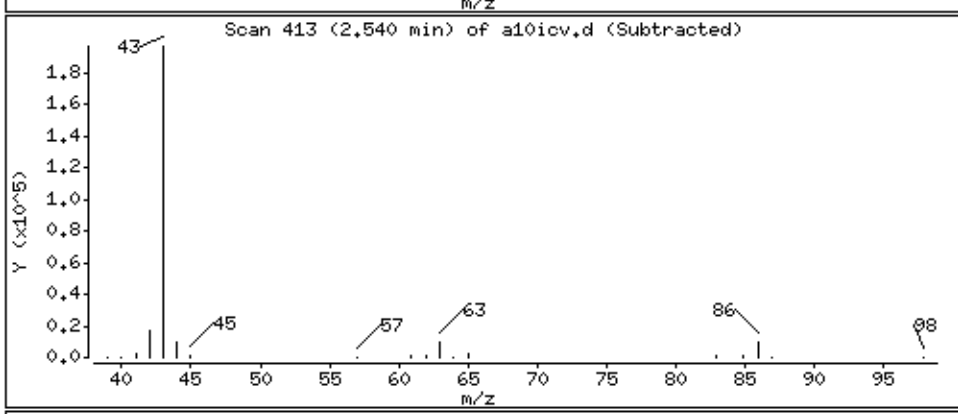
Purge Volume: 5.0 | Operator: TMW

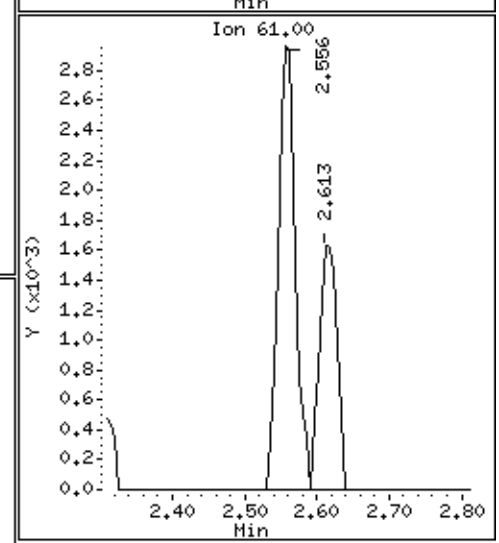
Column phase: DB-624 | Column diameter: 0.18

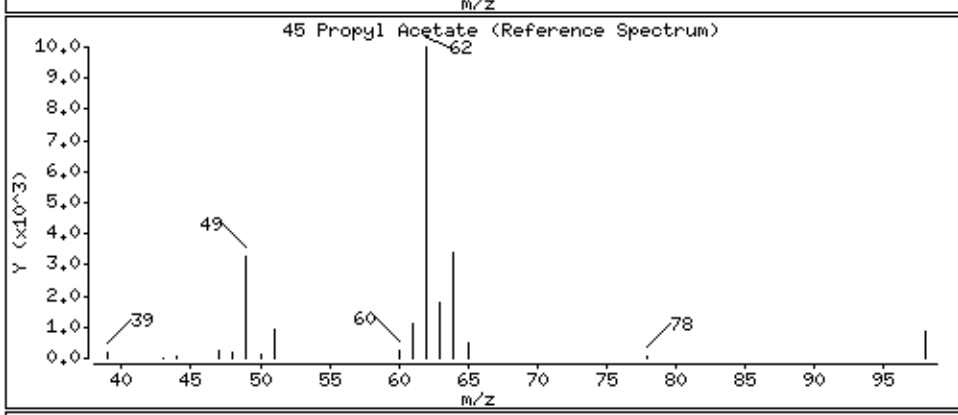
45 Propyl Acetate

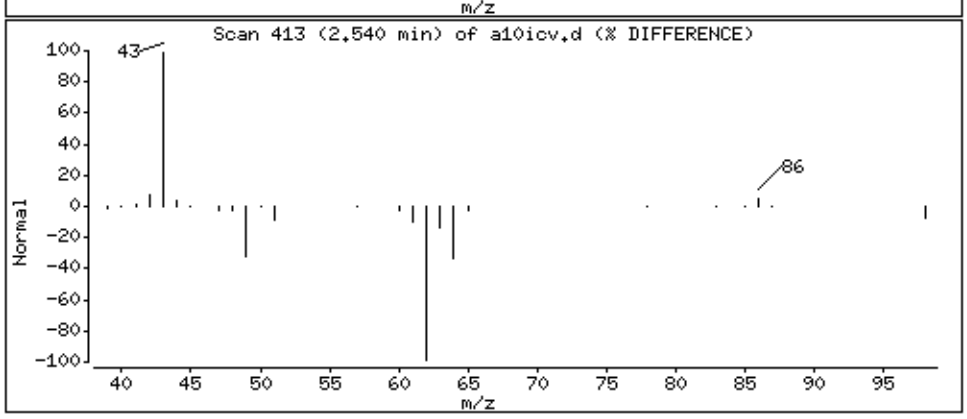












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

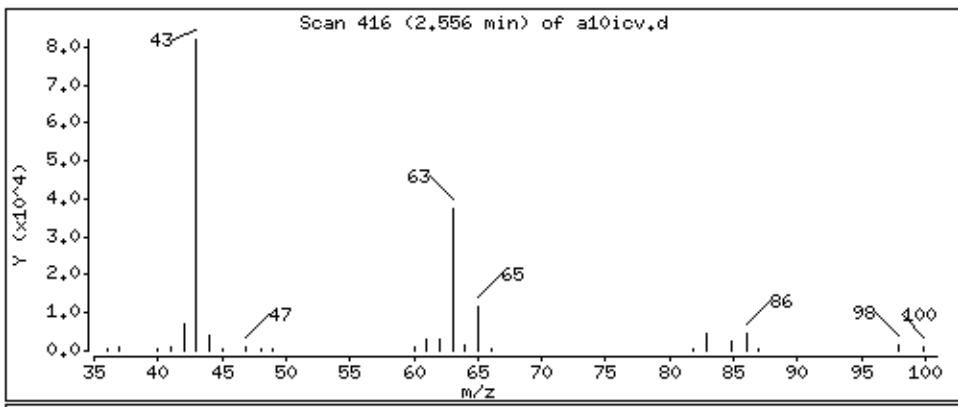
Client ID: 8260-ICV | Instrument: 50mv5a.i

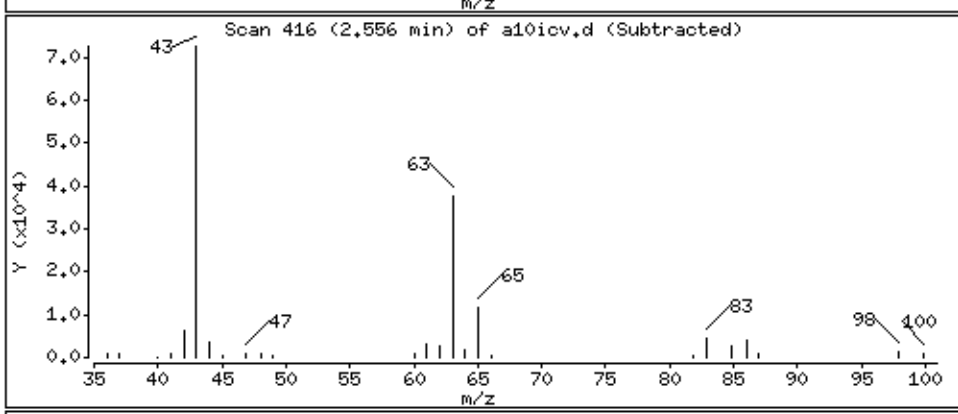
Sample Info: 8260-ICV,140022:0

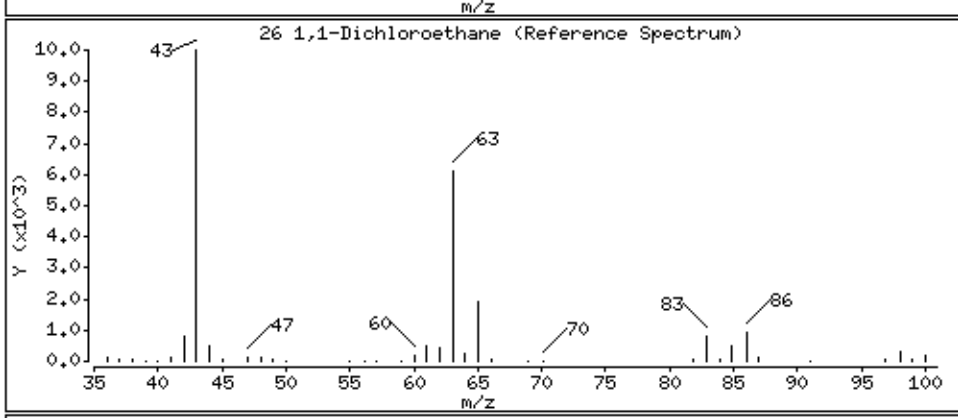
Purge Volume: 5.0 | Operator: TMW

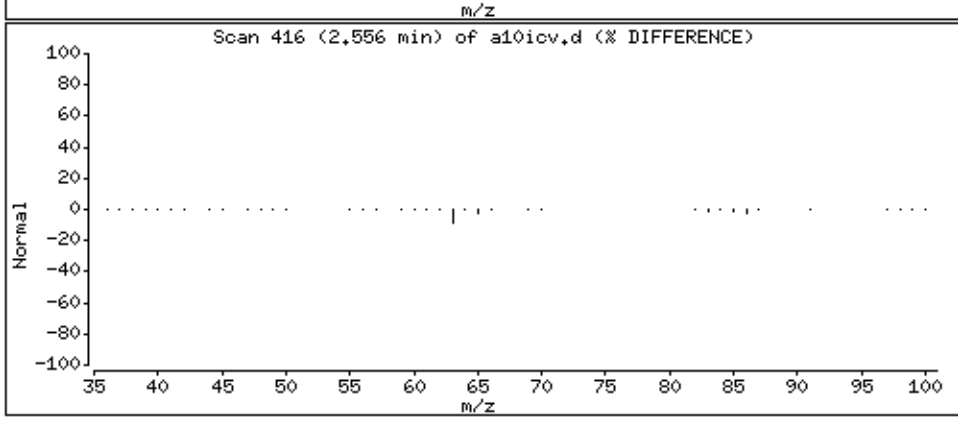
Column phase: DB-624 | Column diameter: 0.18

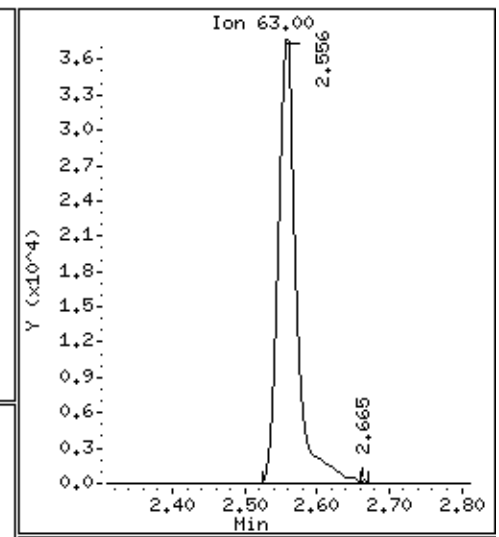
26 1,1-Dichloroethane | Concentration: 49.7 ppb

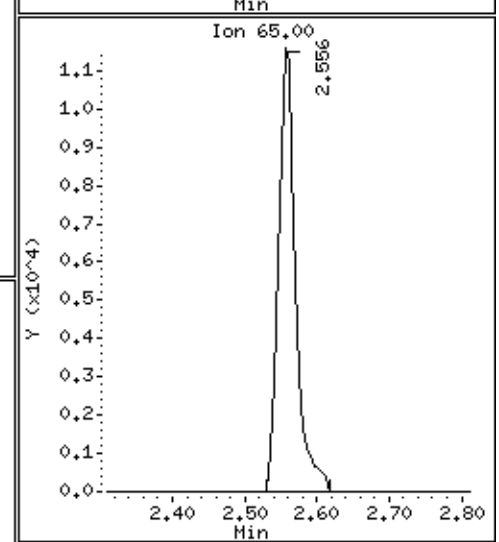


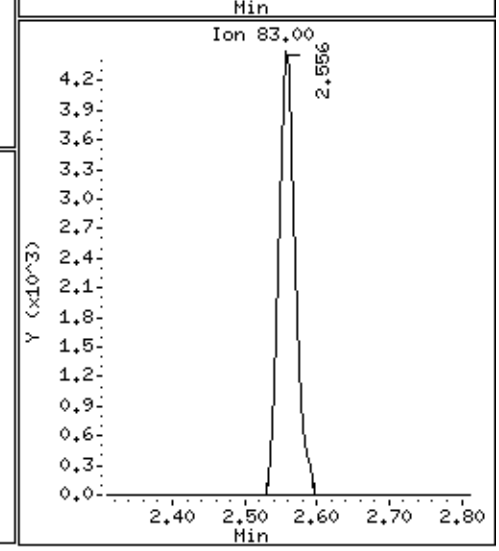












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

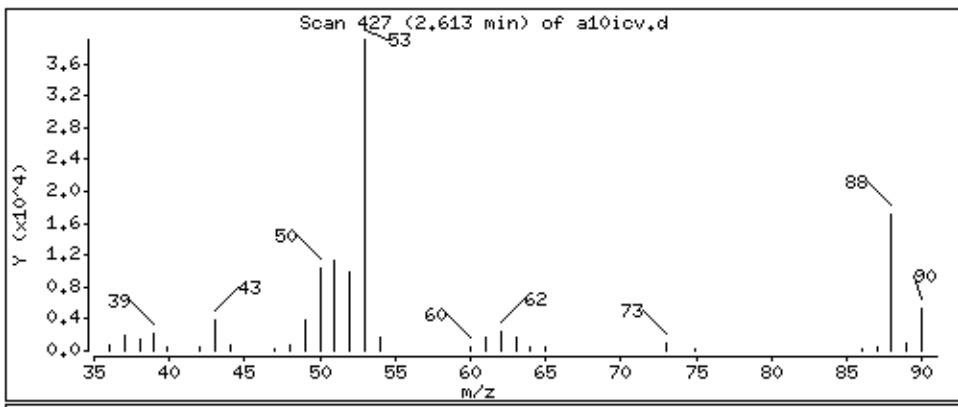
Client ID: 8260-ICV | Instrument: 50mv5a.i

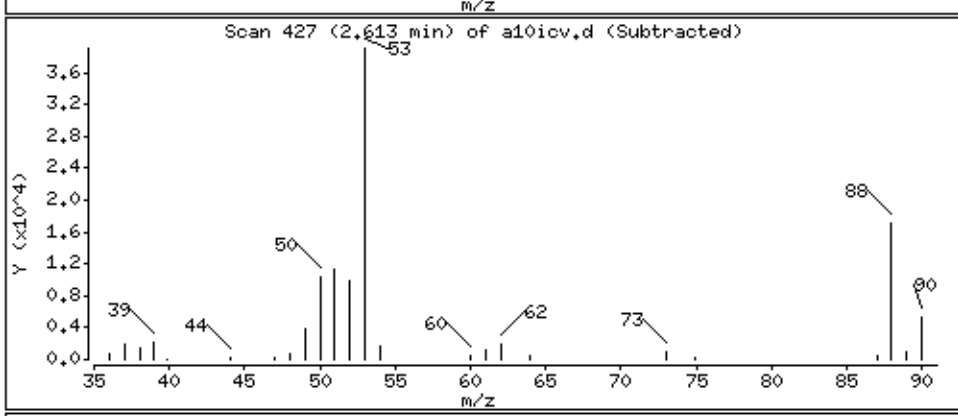
Sample Info: 8260-ICV,140022:0

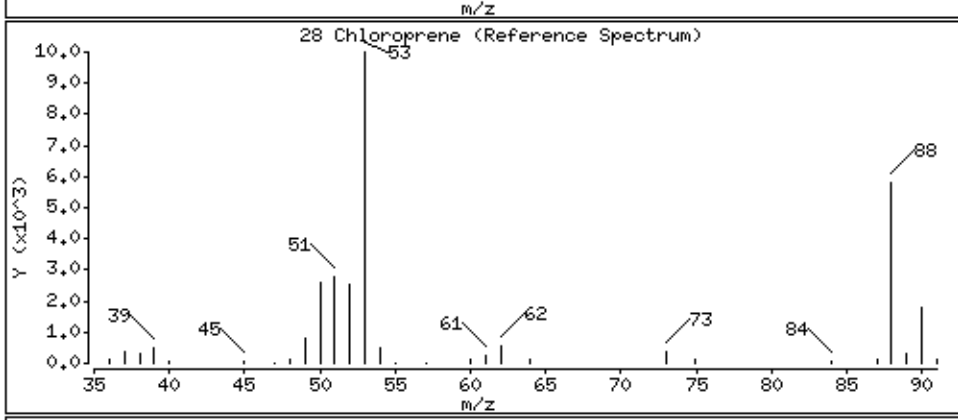
Purge Volume: 5.0 | Operator: TMW

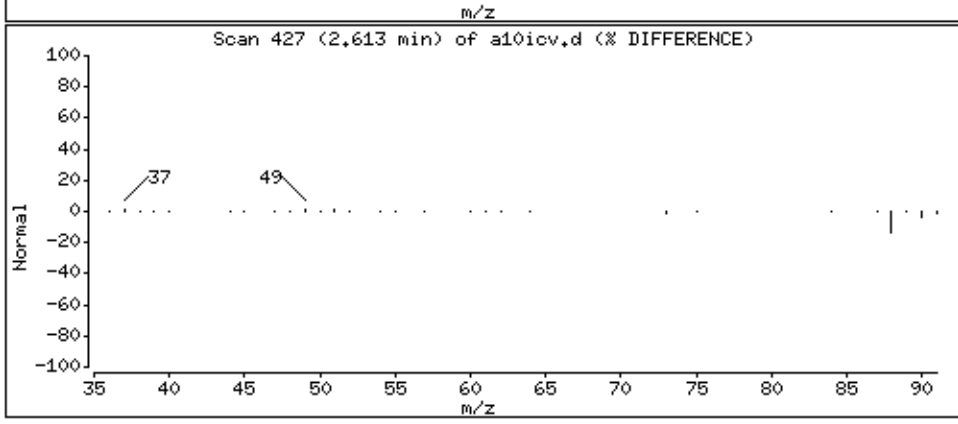
Column phase: DB-624 | Column diameter: 0.18

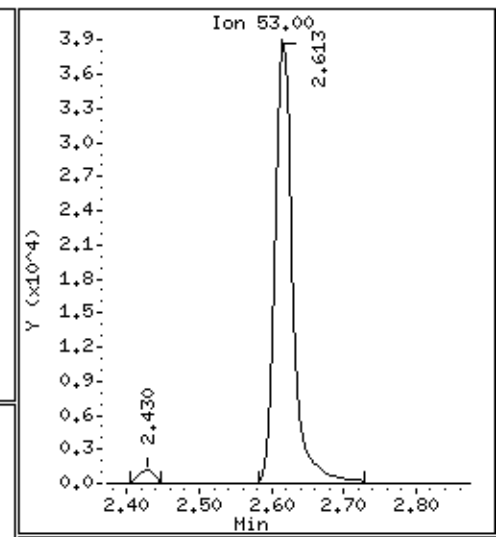
28 Chloroprene | Concentration: 56.0 ppb

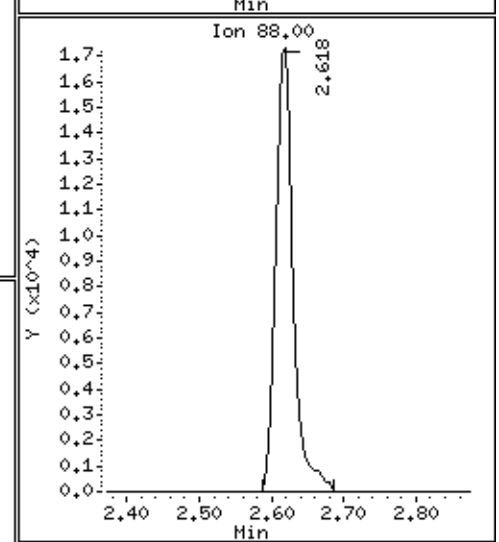


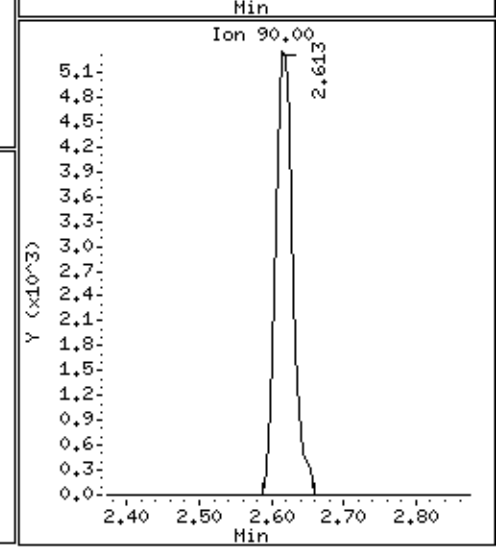












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

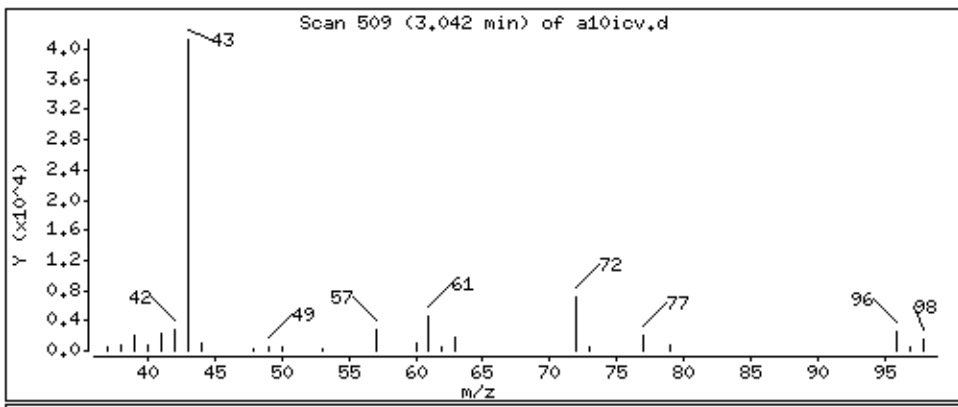
Client ID: 8260-ICV | Instrument: 50mv5a.i

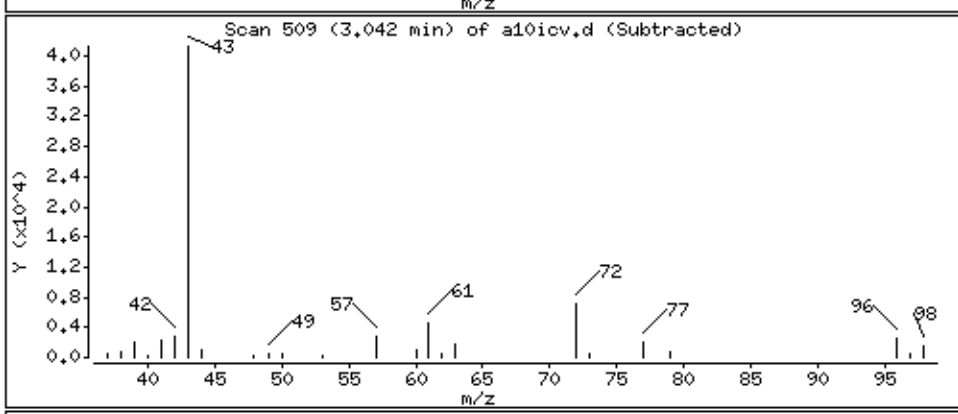
Sample Info: 8260-ICV,140022:0

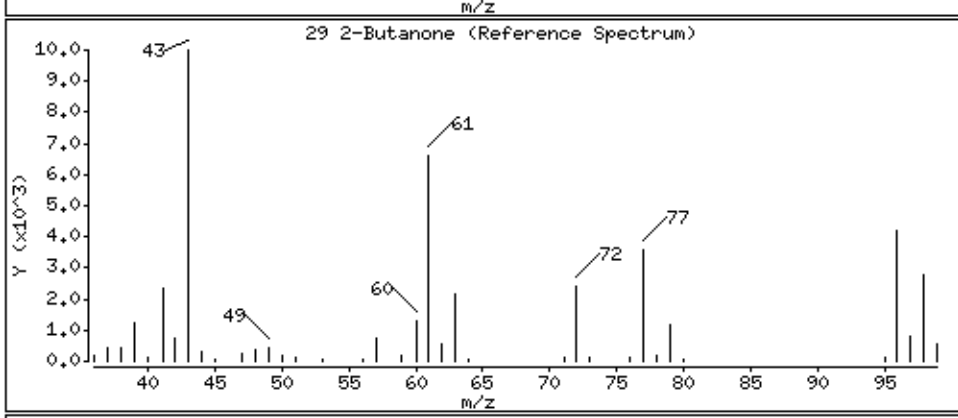
Purge Volume: 5.0 | Operator: TMW

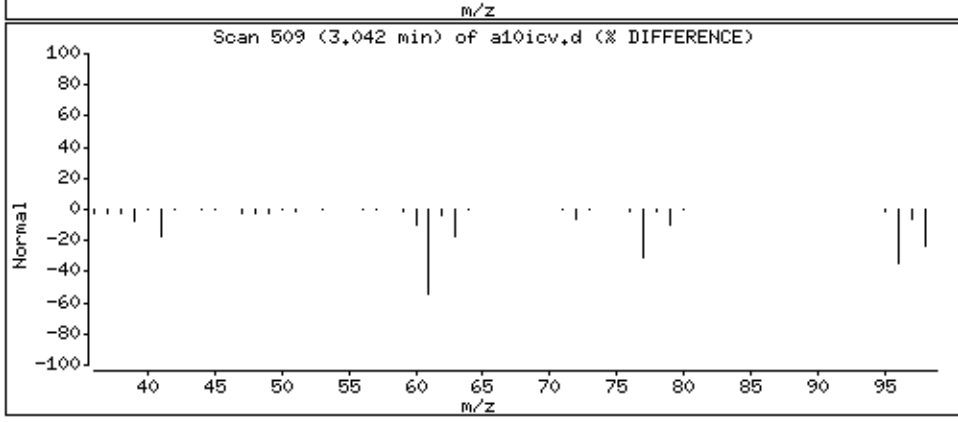
Column phase: DB-624 | Column diameter: 0.18

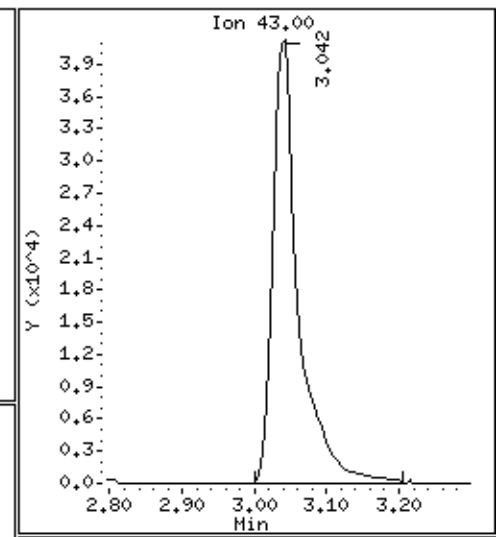
29 2-Butanone | Concentration: 371 ppb

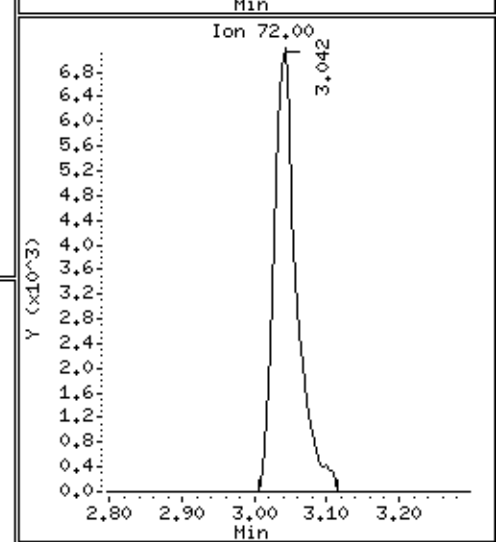


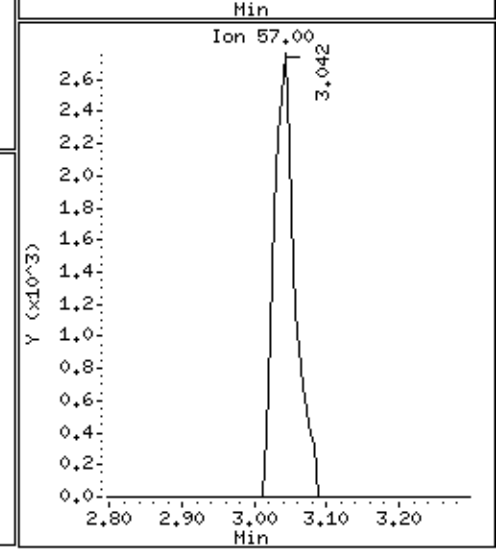












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

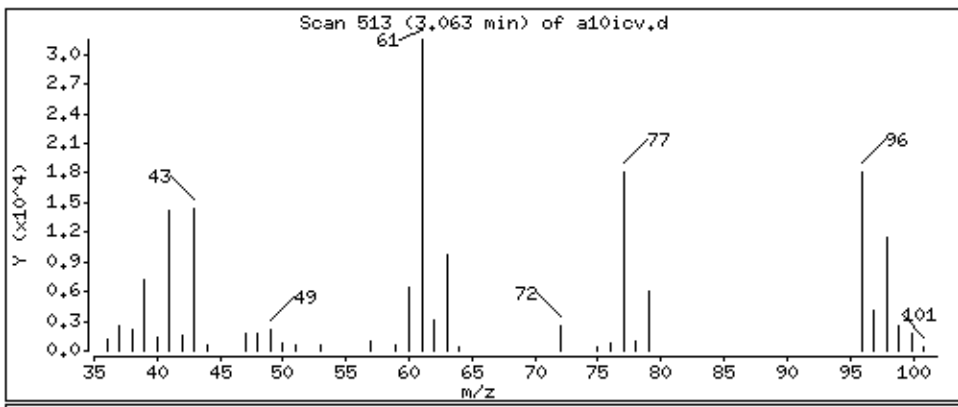
Client ID: 8260-ICV | Instrument: 50mv5a.i

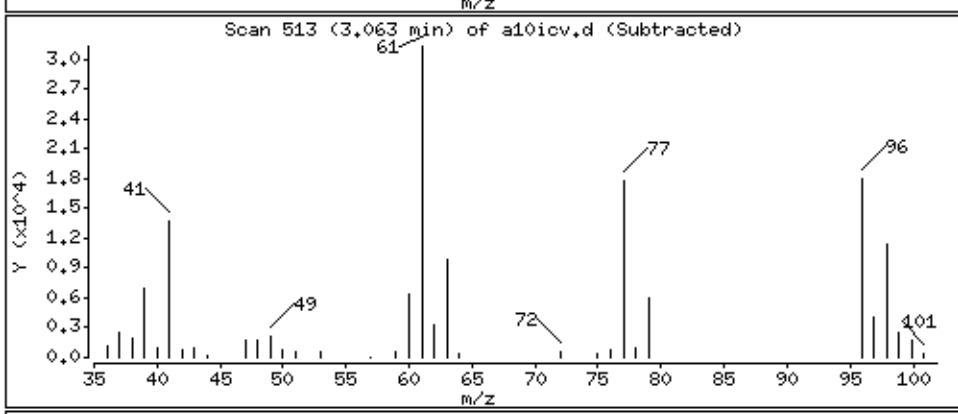
Sample Info: 8260-ICV,140022:0

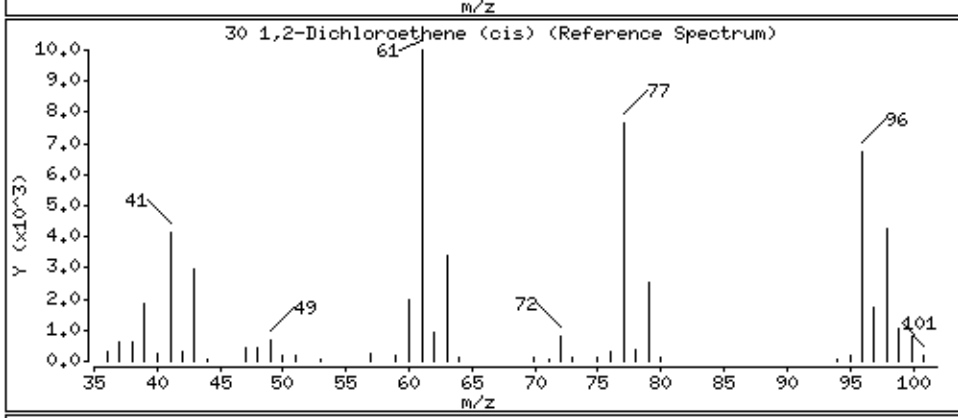
Purge Volume: 5.0 | Operator: TMW

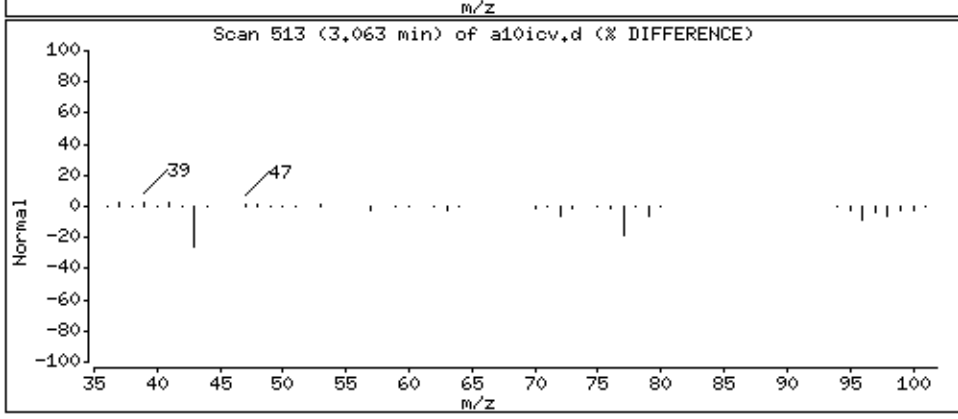
Column phase: DB-624 | Column diameter: 0.18

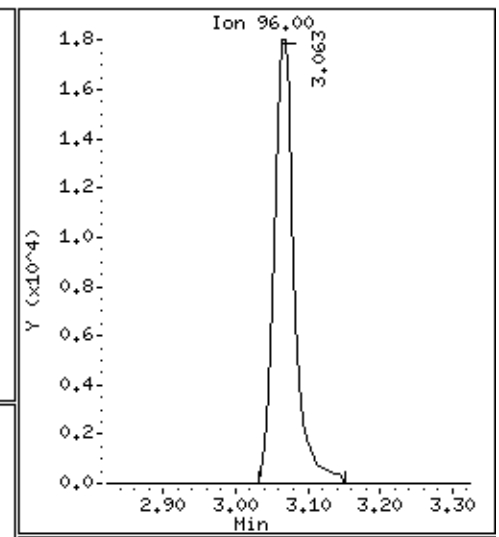
30 1,2-Dichloroethene (cis) | Concentration: 48.9 ppb

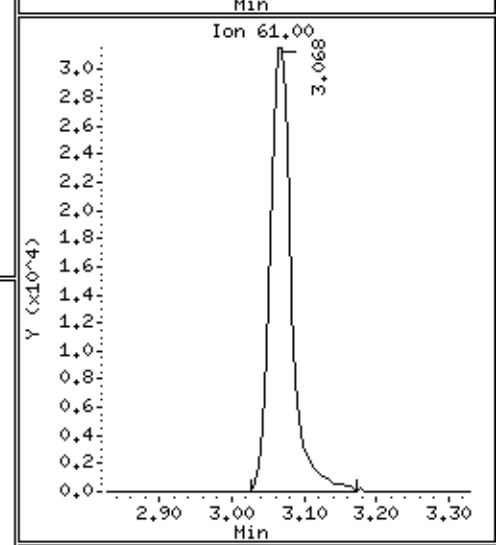


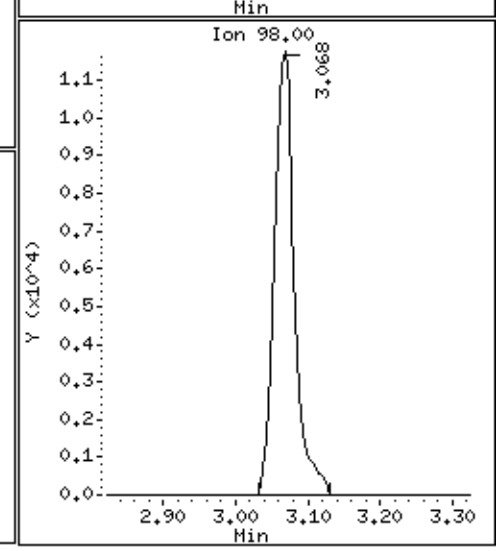












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

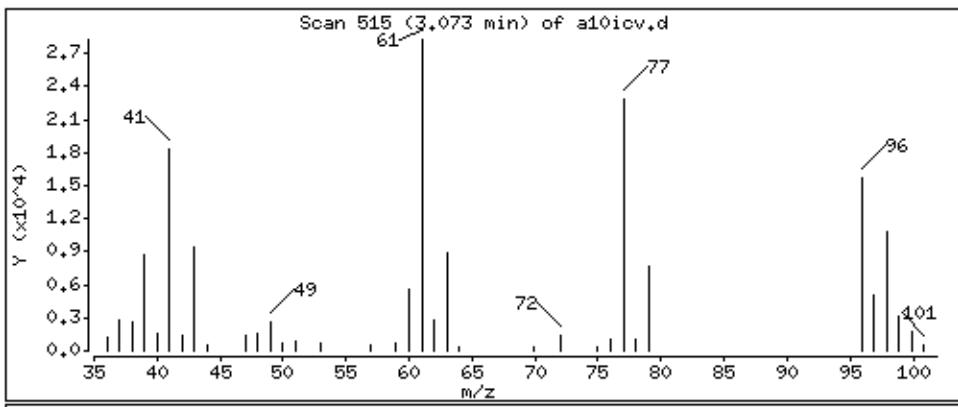
Client ID: 8260-ICV | Instrument: 50mv5a.i

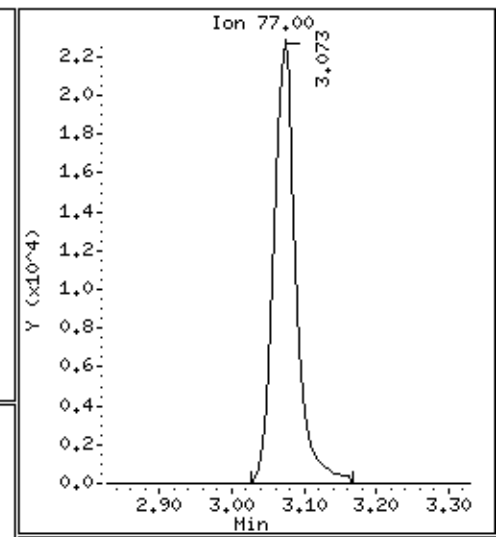
Sample Info: 8260-ICV,140022:0

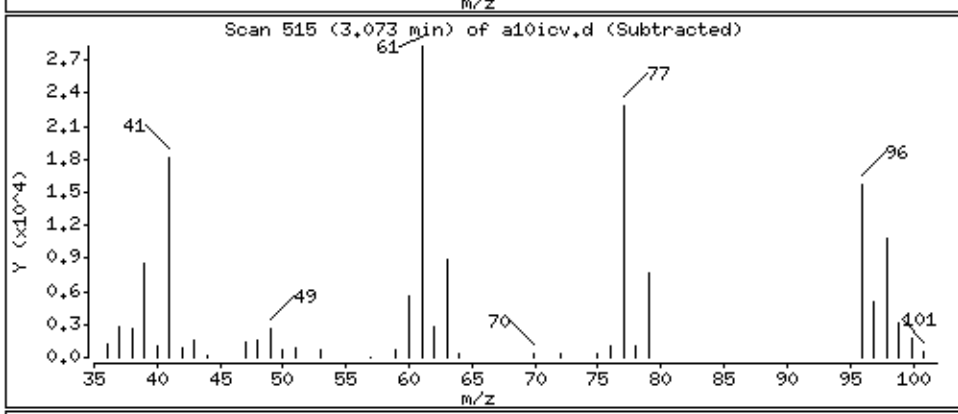
Purge Volume: 5.0 | Operator: TMW

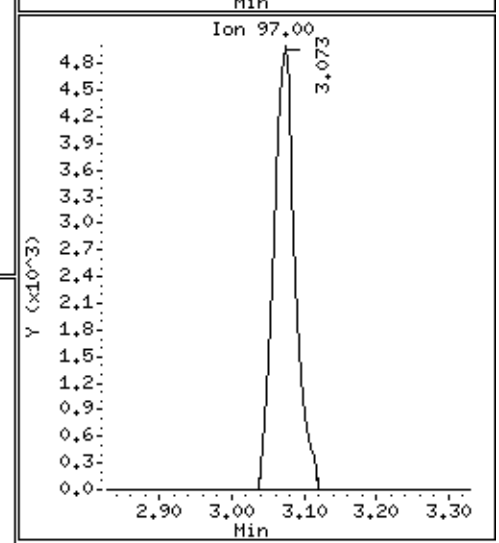
Column phase: DB-624 | Column diameter: 0.18

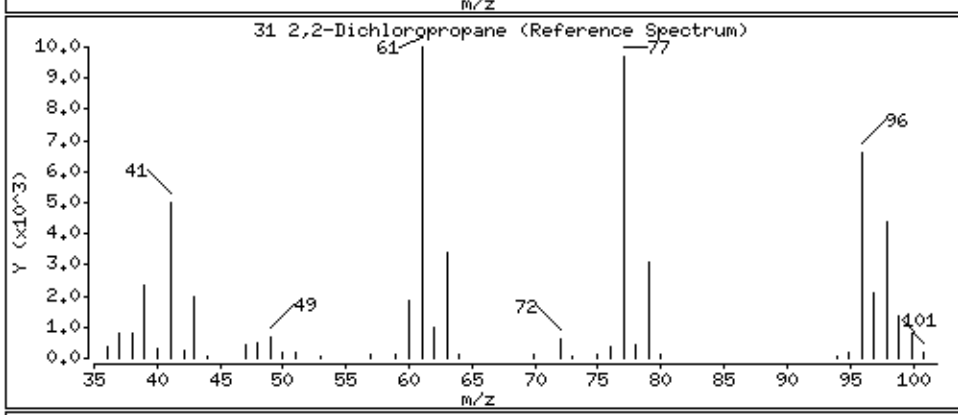
31 2,2-Dichloropropane | Concentration: 48.8 ppb

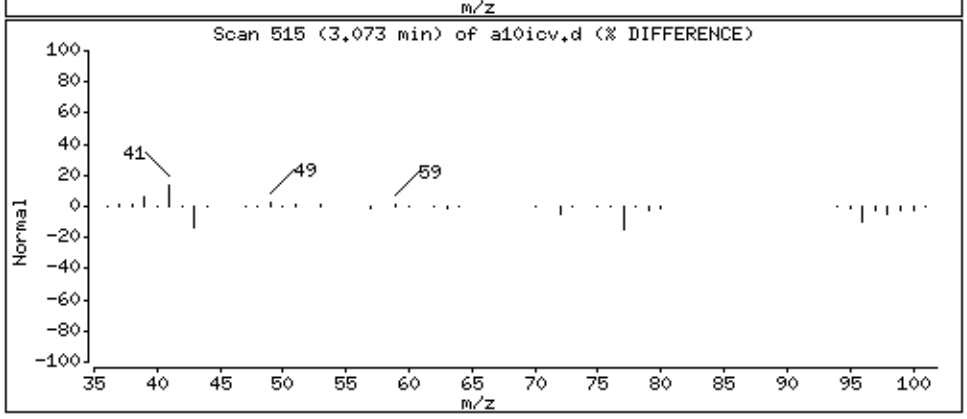












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

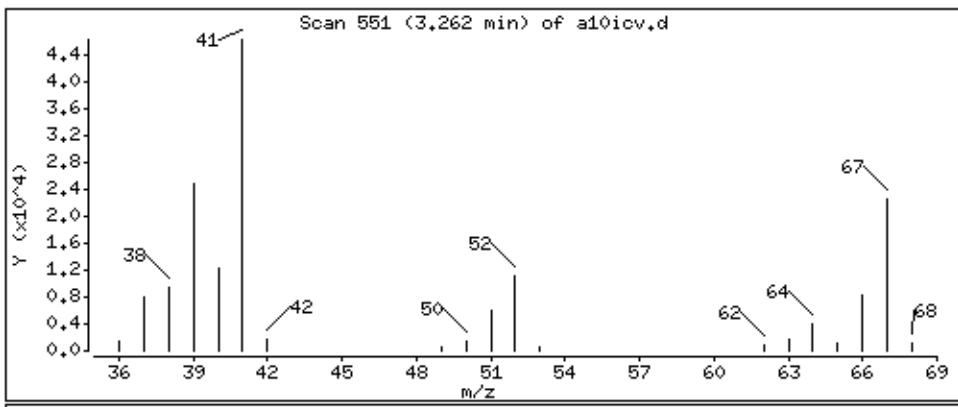
Client ID: 8260-ICV | Instrument: 50mv5a.i

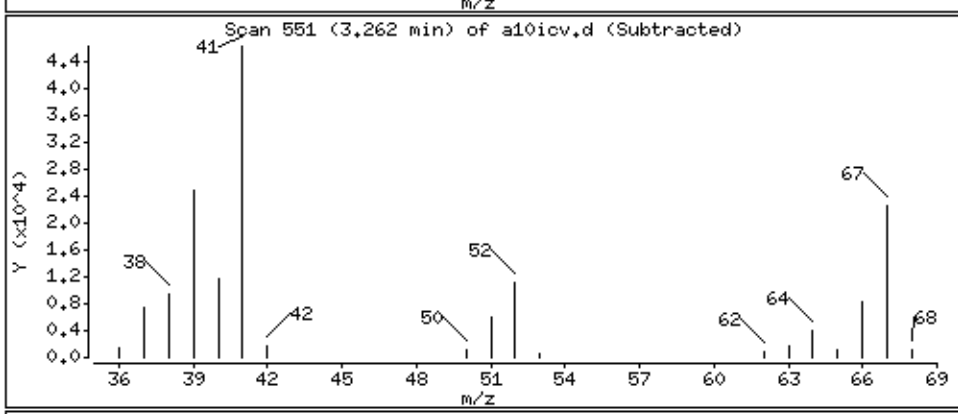
Sample Info: 8260-ICV,140022:0

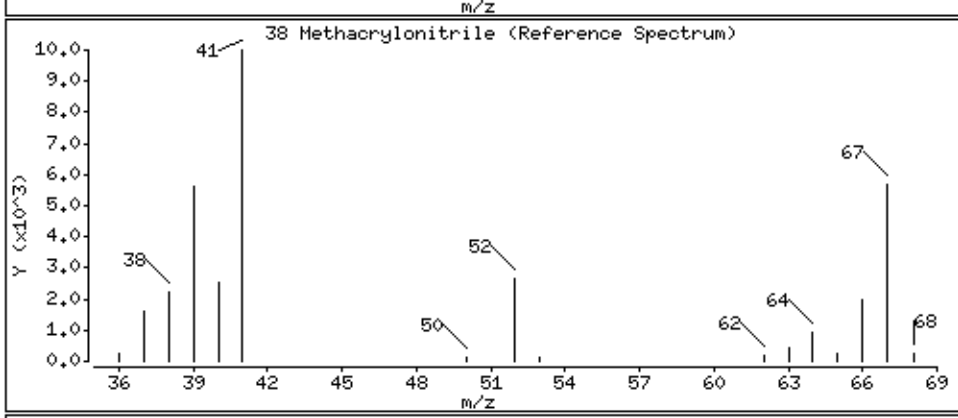
Purge Volume: 5.0 | Operator: TMW

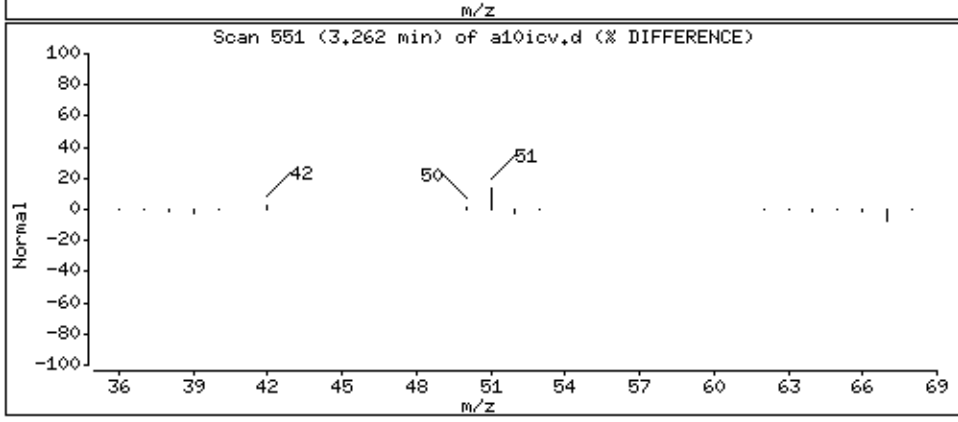
Column phase: DB-624 | Column diameter: 0.18

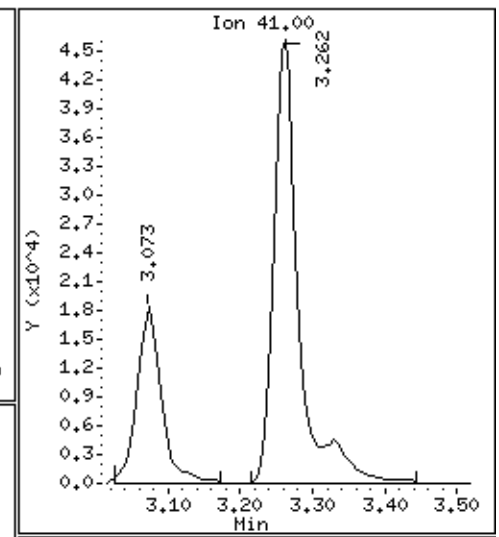
38 Methacrylonitrile | Concentration: 257 ppb

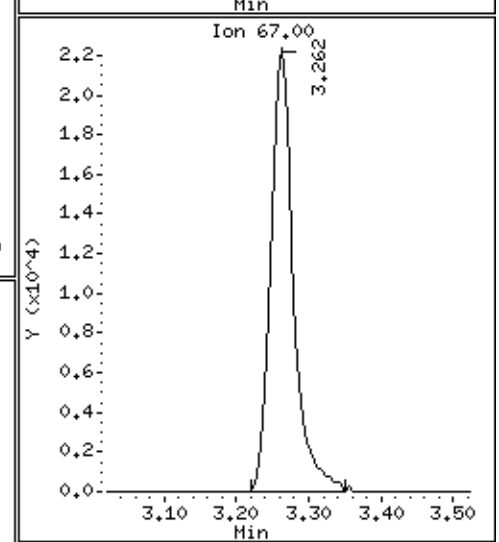


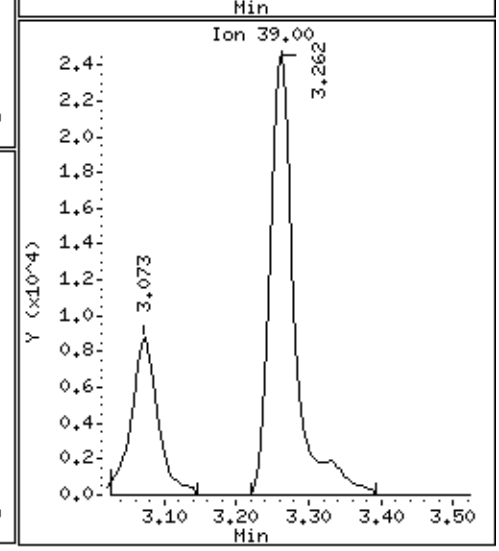












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

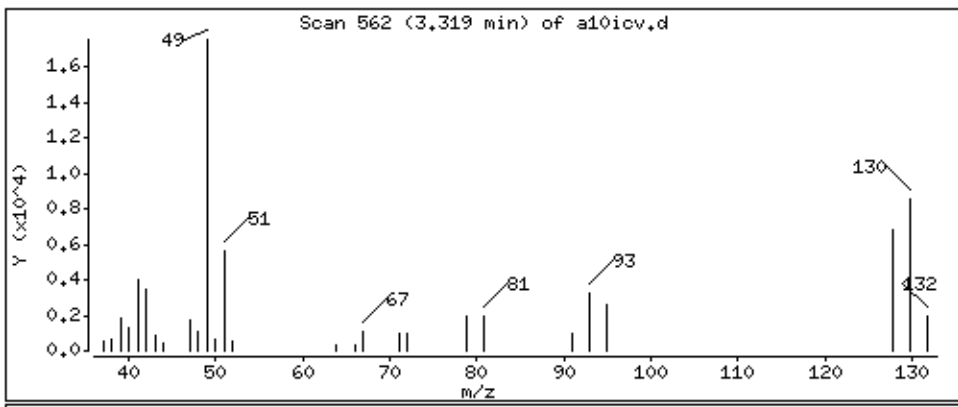
Client ID: 8260-ICV | Instrument: 50mv5a.i

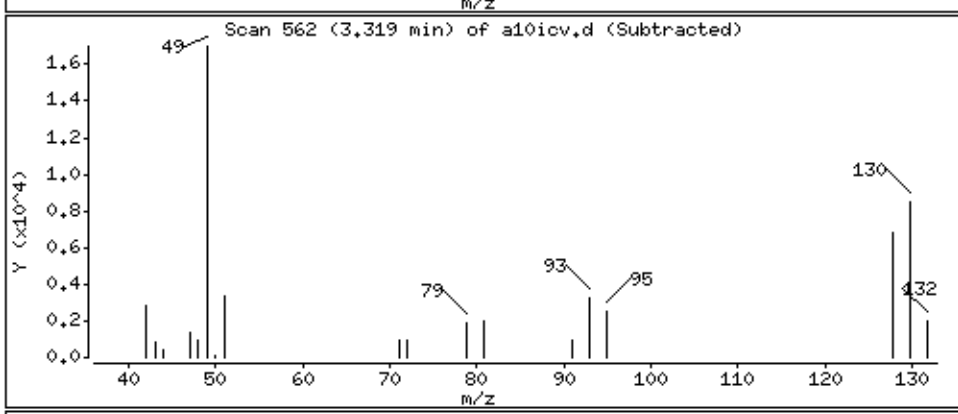
Sample Info: 8260-ICV,140022:0

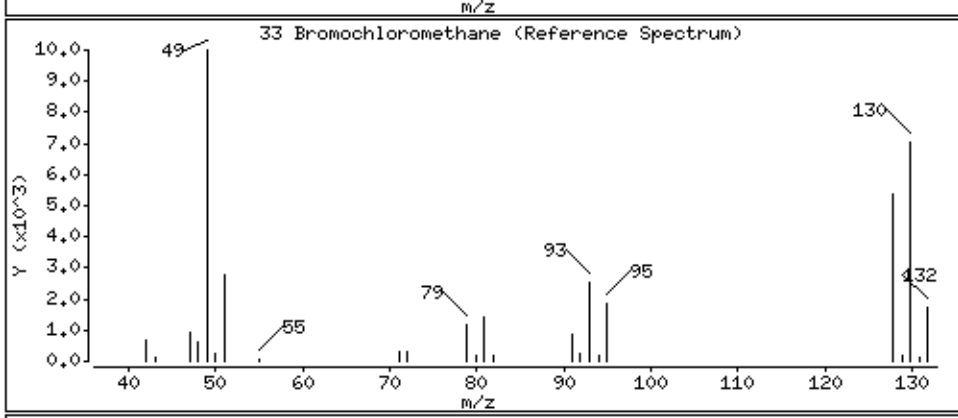
Purge Volume: 5.0 | Operator: TMW

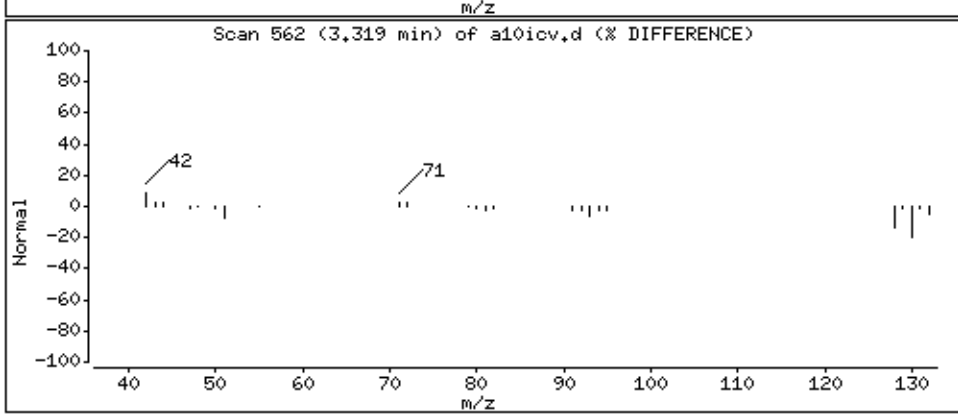
Column phase: DB-624 | Column diameter: 0.18

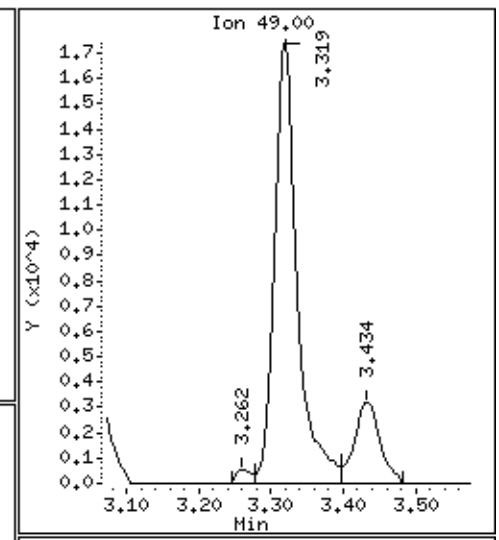
33 Bromochloromethane | Concentration: 56.5 ppb

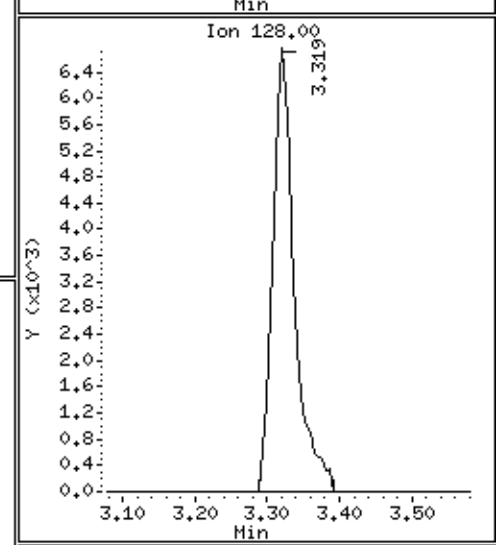


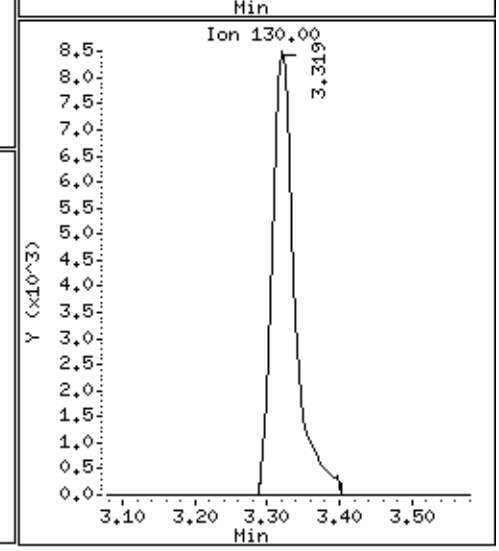












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

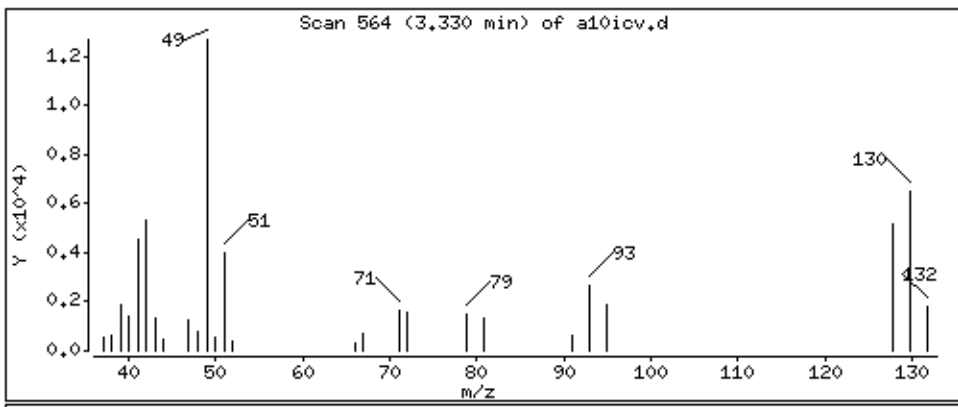
Client ID: 8260-ICV | Instrument: 50mv5a.i

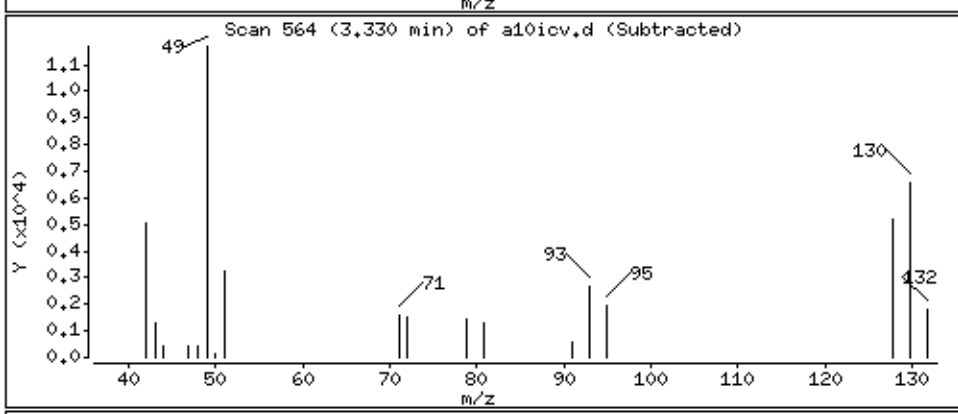
Sample Info: 8260-ICV,140022:0

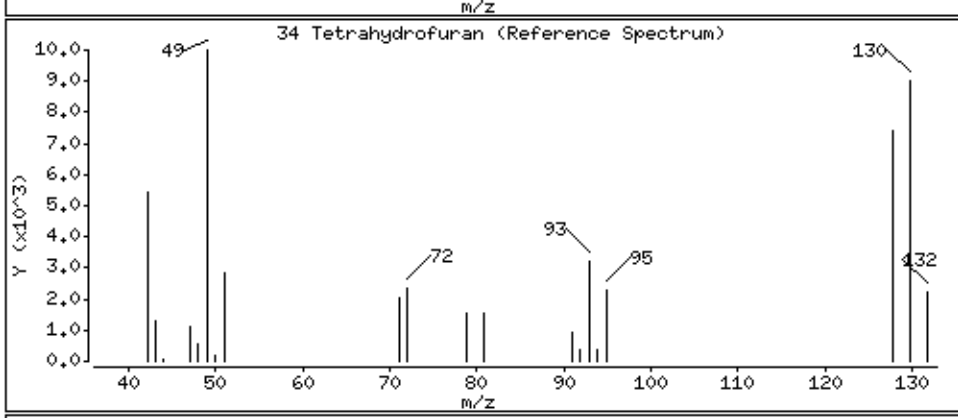
Purge Volume: 5.0 | Operator: TMW

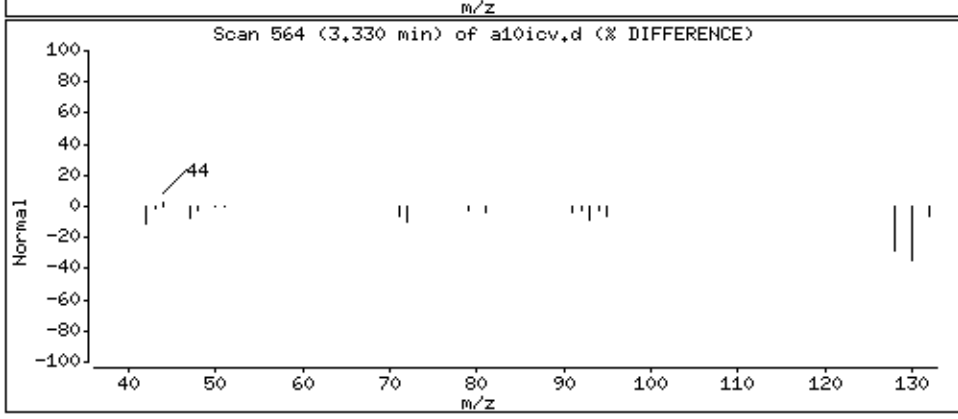
Column phase: DB-624 | Column diameter: 0.18

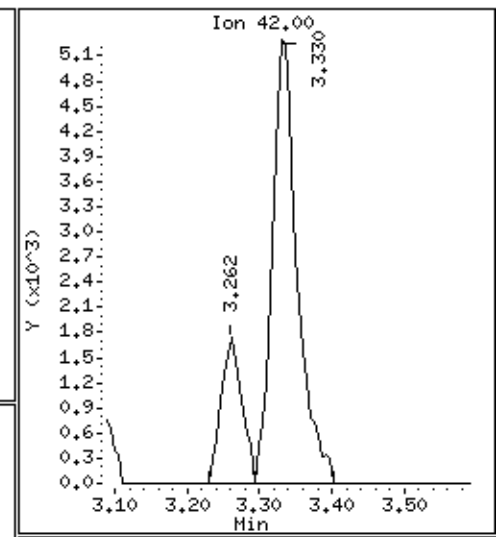
34 Tetrahydrofuran | Concentration: 59.5 ppb

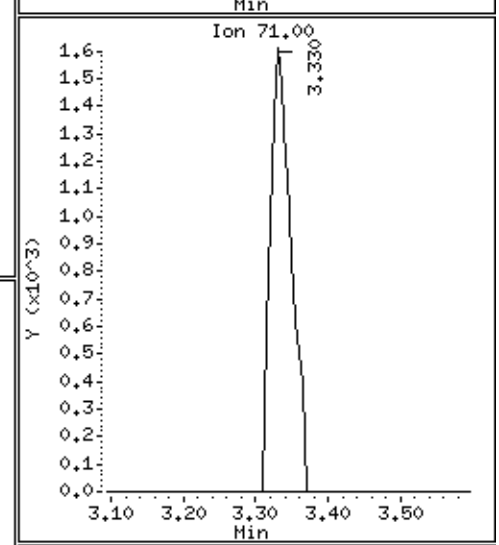


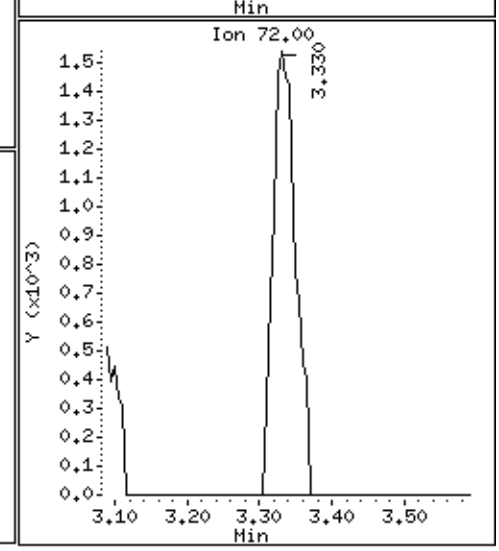












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

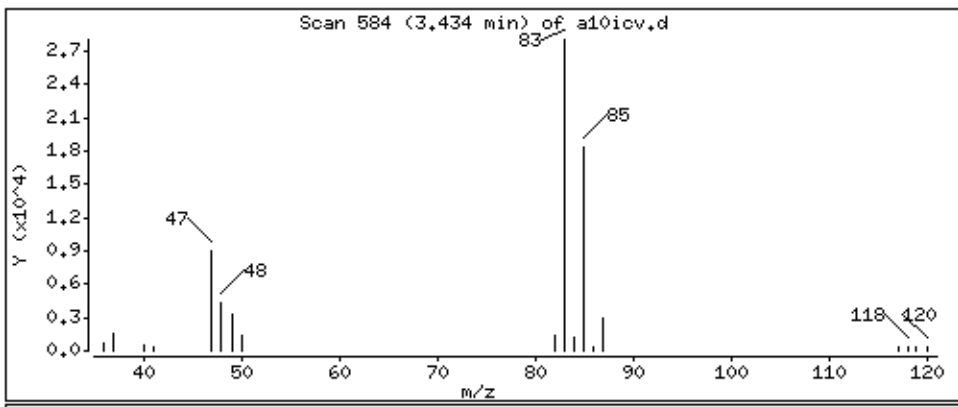
Client ID: 8260-ICV | Instrument: 50mv5a.i

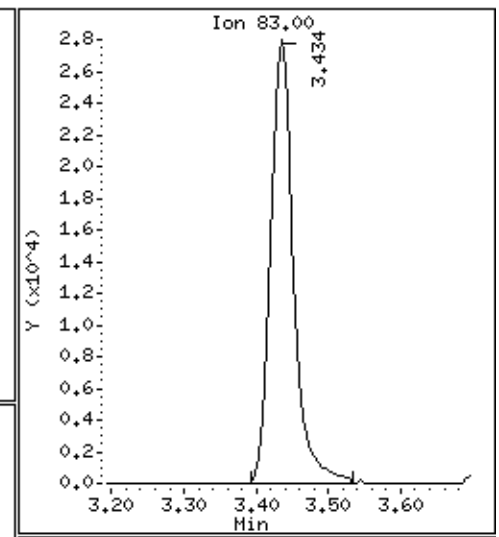
Sample Info: 8260-ICV,140022:0

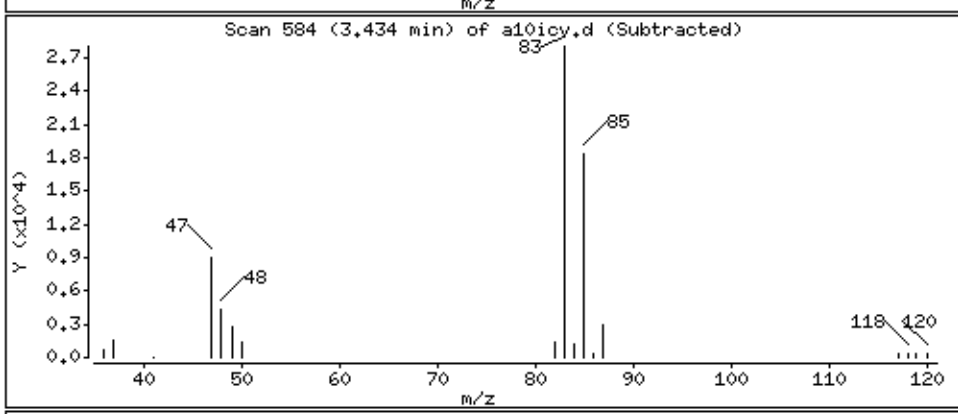
Purge Volume: 5.0 | Operator: TMW

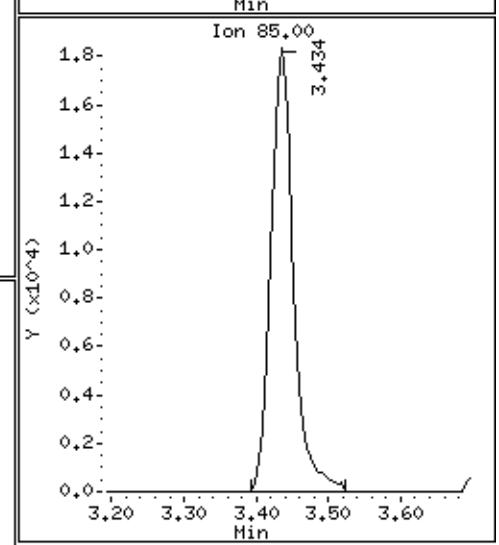
Column phase: DB-624 | Column diameter: 0.18

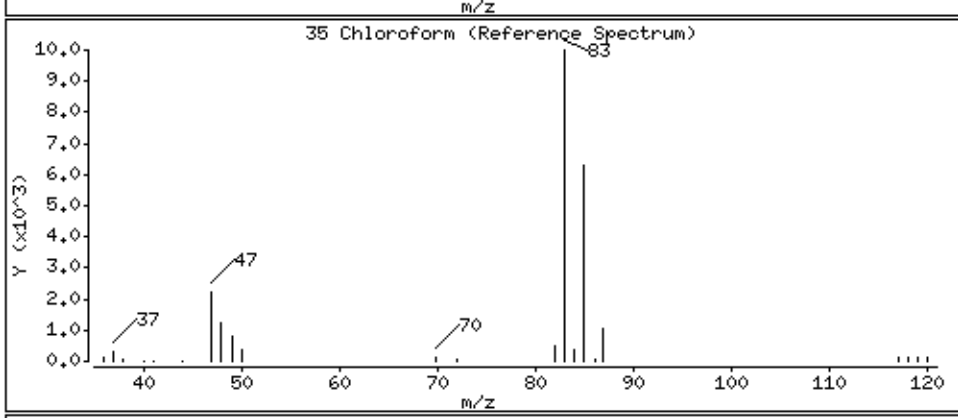
35 Chloroform | Concentration: 47.6 ppb

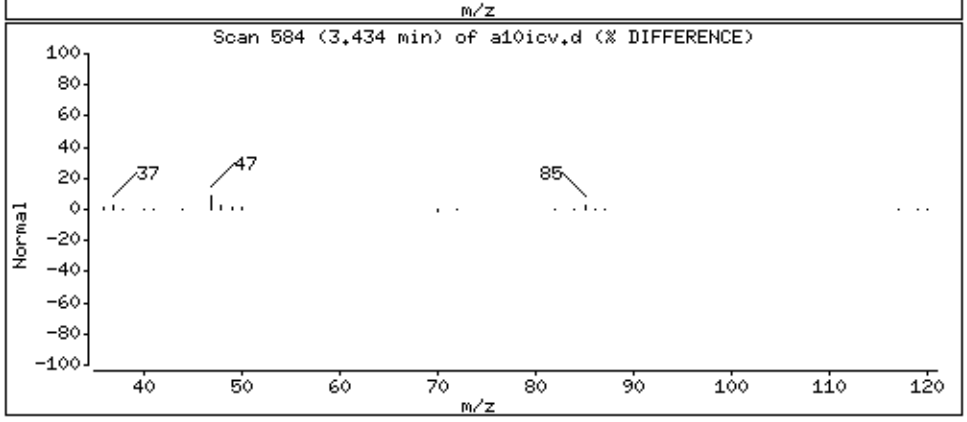












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

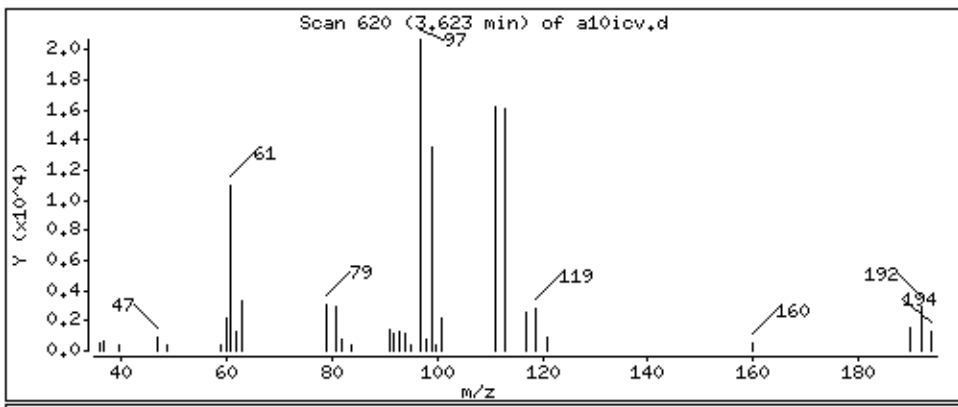
Client ID: 8260-ICV | Instrument: 50mv5a.i

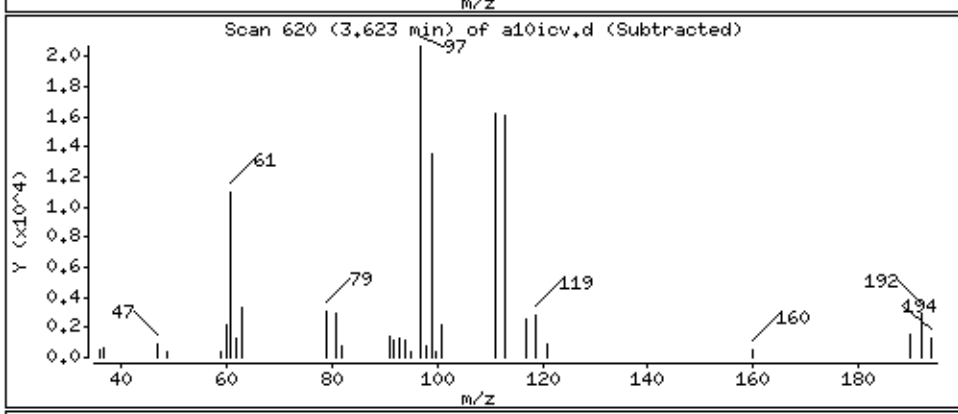
Sample Info: 8260-ICV,140022:0

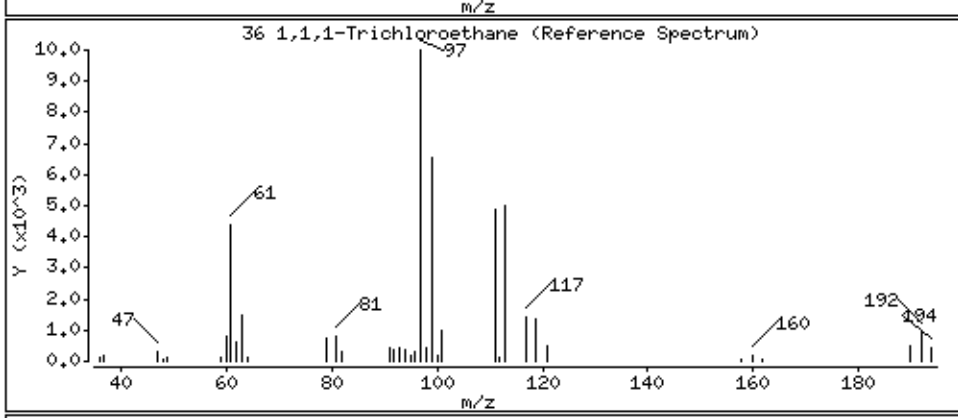
Purge Volume: 5.0 | Operator: TMW

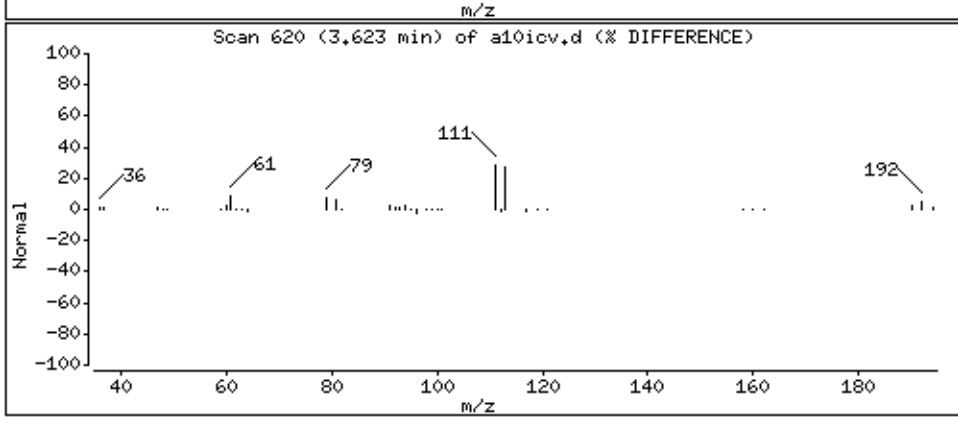
Column phase: DB-624 | Column diameter: 0.18

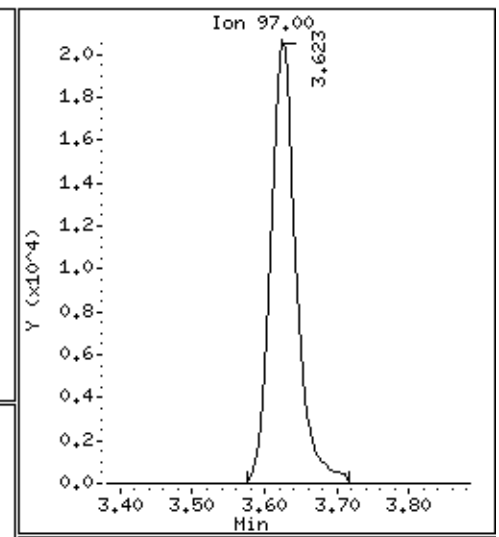
36 1,1,1-Trichloroethane | Concentration: 46.8 ppb

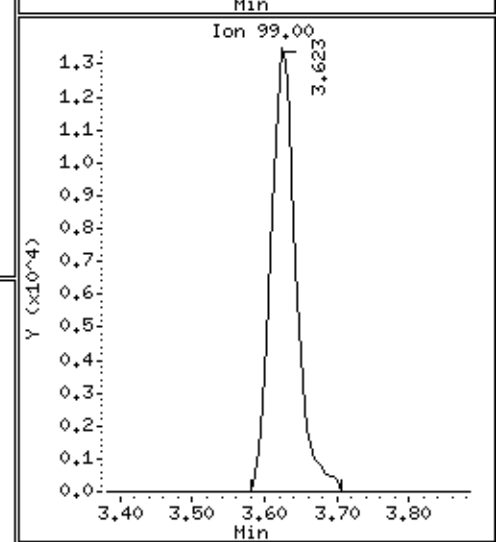


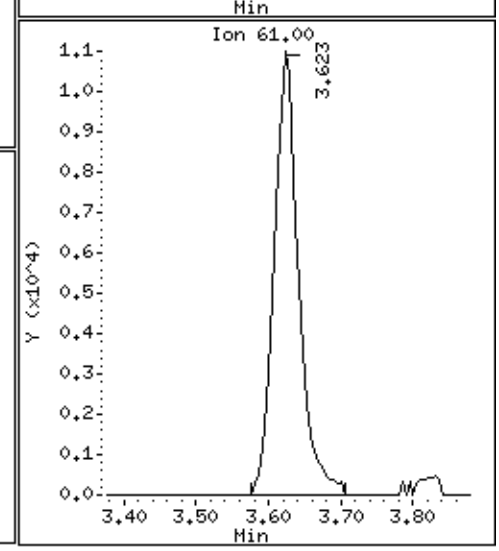












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

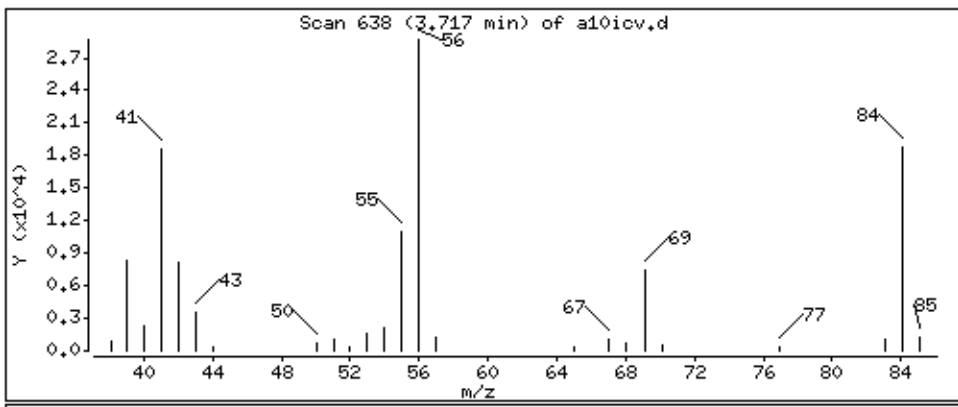
Client ID: 8260-ICV | Instrument: 50mv5a.i

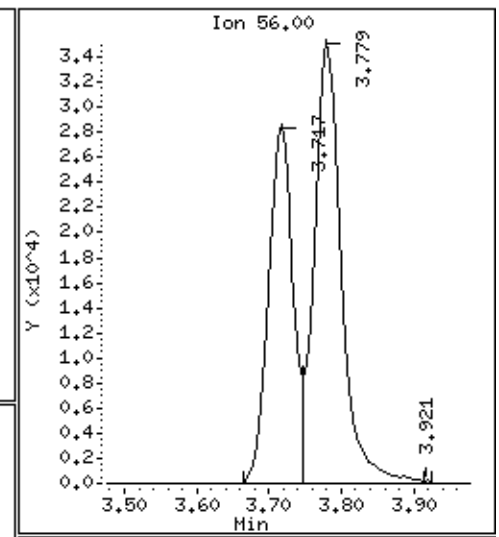
Sample Info: 8260-ICV,140022:0

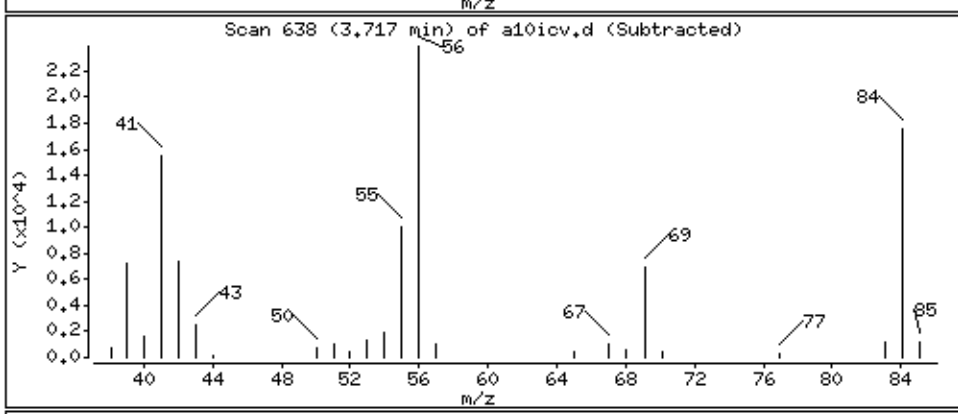
Purge Volume: 5.0 | Operator: TMW

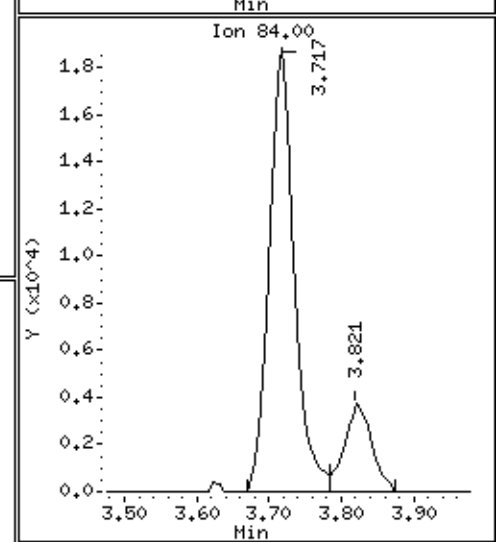
Column phase: DB-624 | Column diameter: 0.18

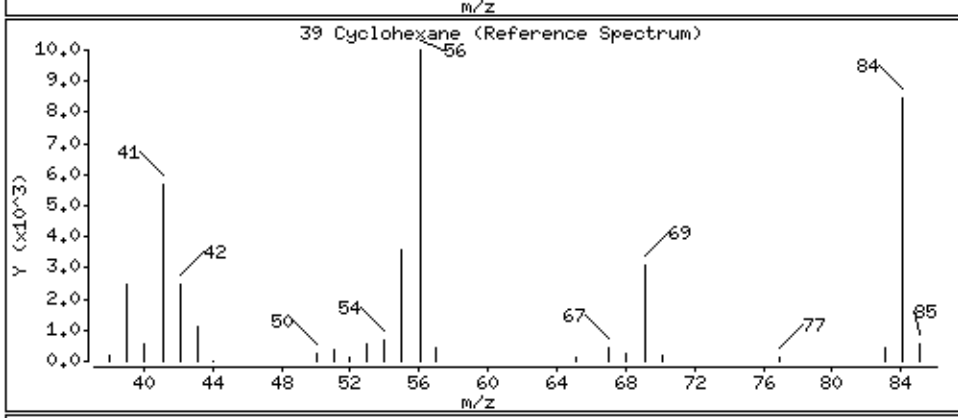
39 Cyclohexane | Concentration: 47.3 ppb

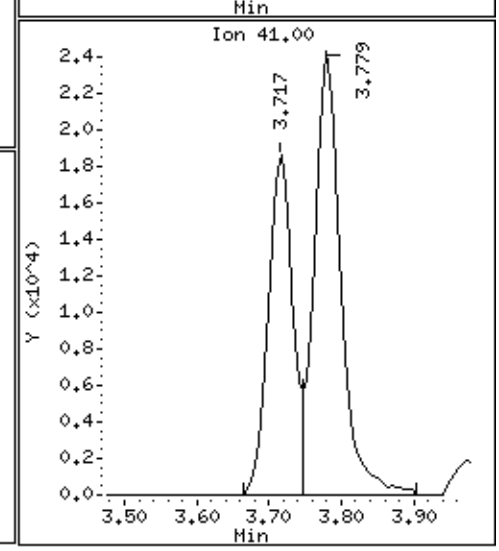


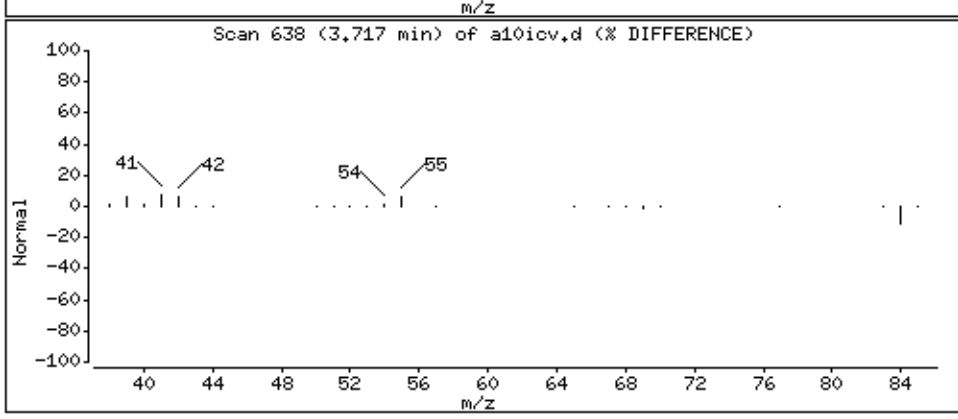












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

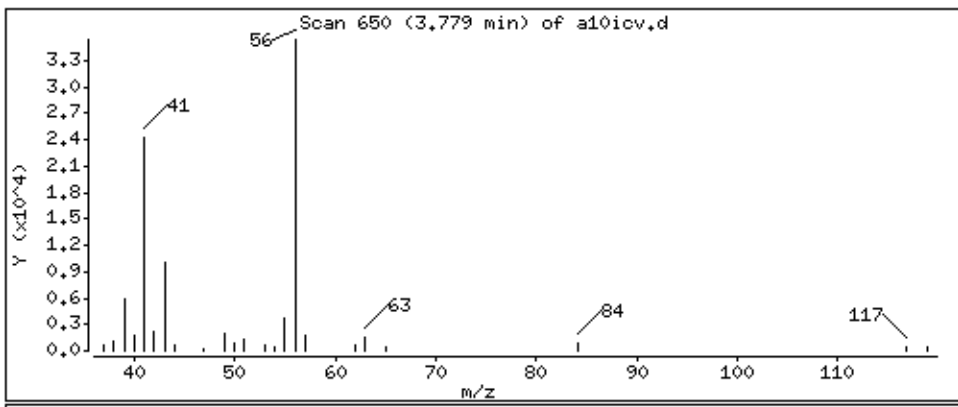
Client ID: 8260-ICV | Instrument: 50mv5a.i

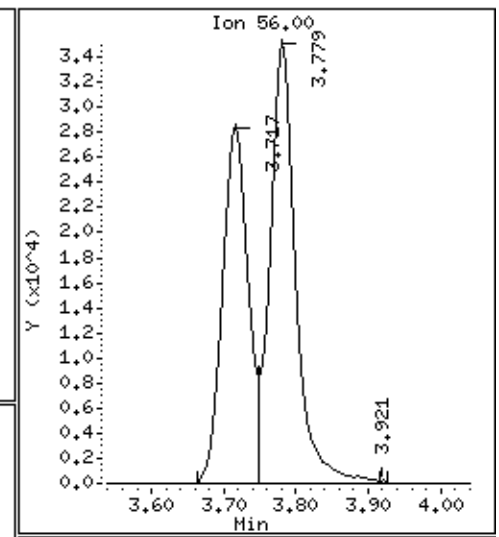
Sample Info: 8260-ICV,140022:0

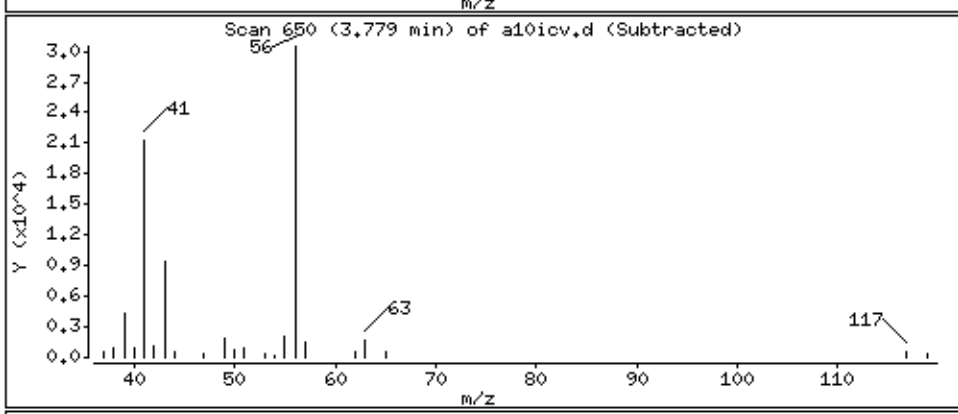
Purge Volume: 5.0 | Operator: TMW

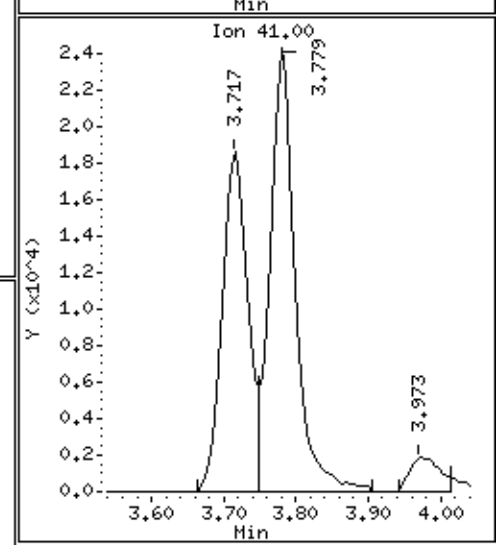
Column phase: DB-624 | Column diameter: 0.18

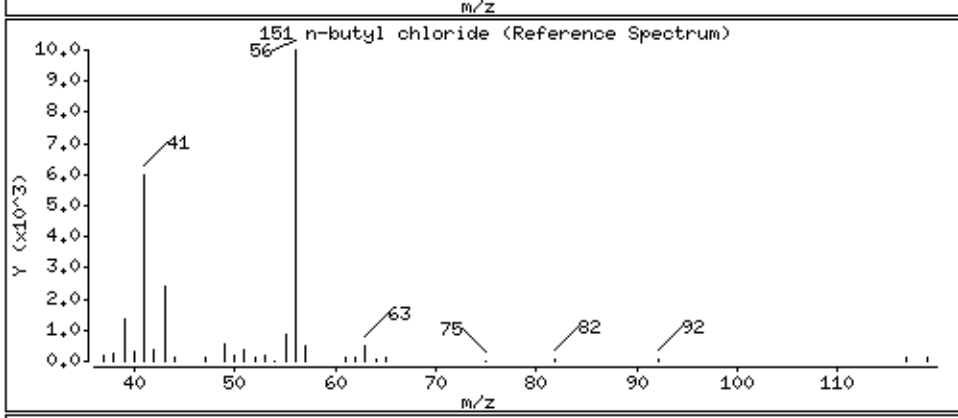
151 n-butyl chloride | Concentration: 53.4 ppb

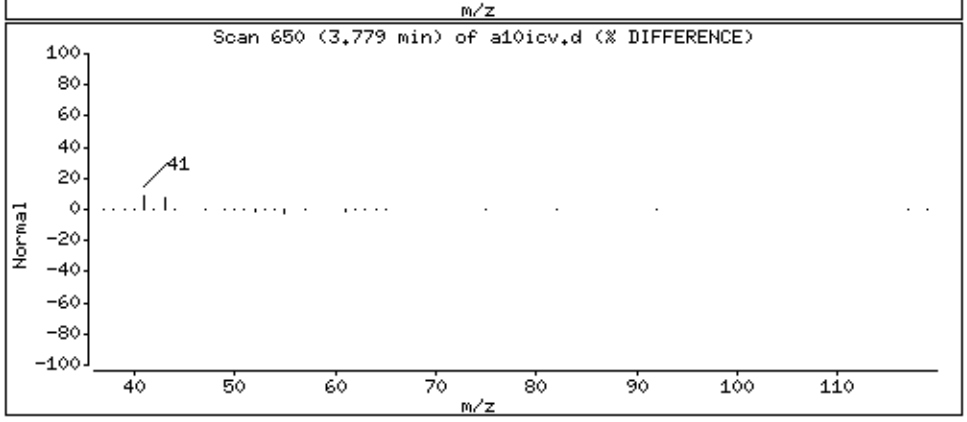












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

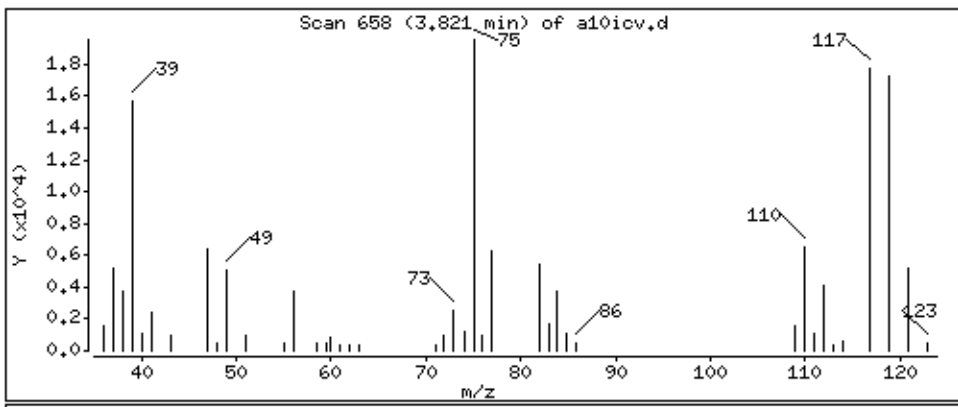
Client ID: 8260-ICV | Instrument: 50mv5a.i

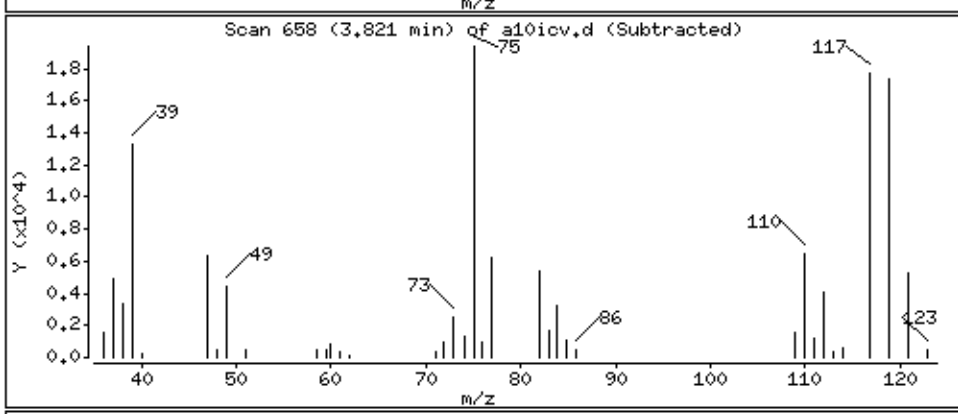
Sample Info: 8260-ICV,140022:0

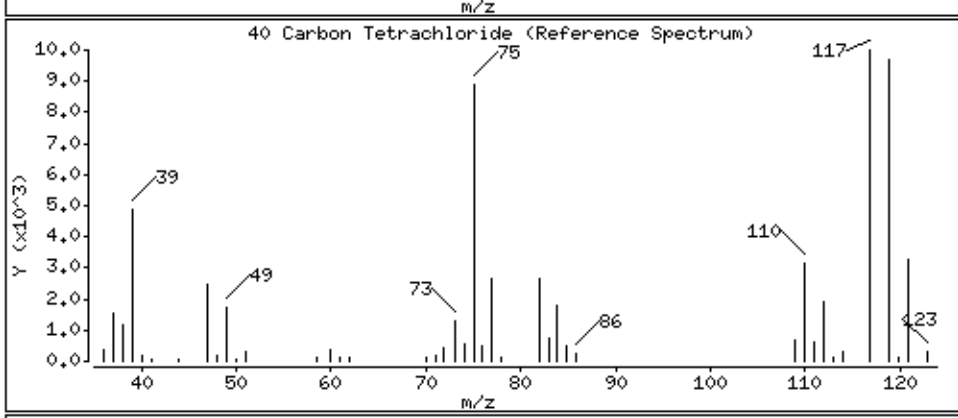
Purge Volume: 5.0 | Operator: TMW

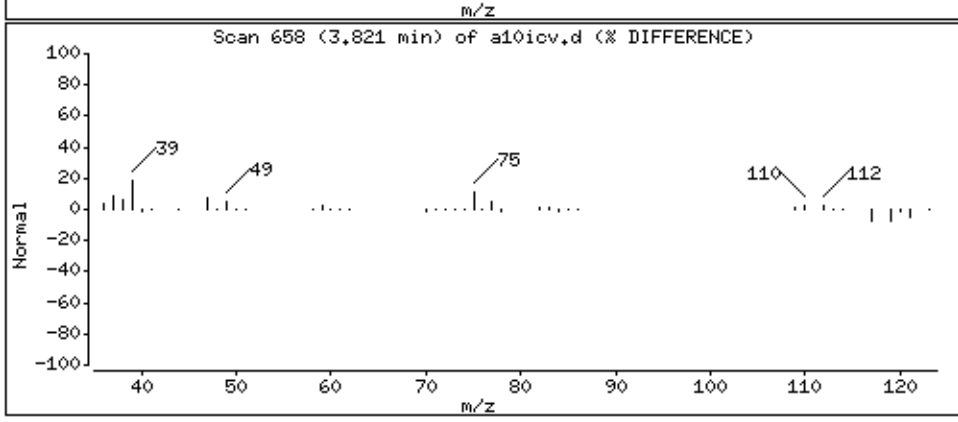
Column phase: DB-624 | Column diameter: 0.18

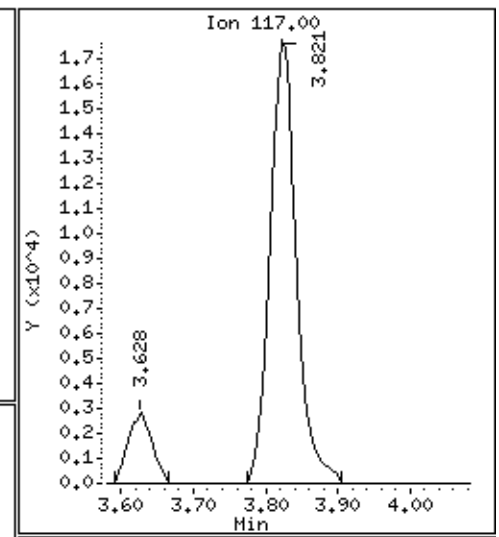
40 Carbon Tetrachloride | Concentration: 48.9 ppb

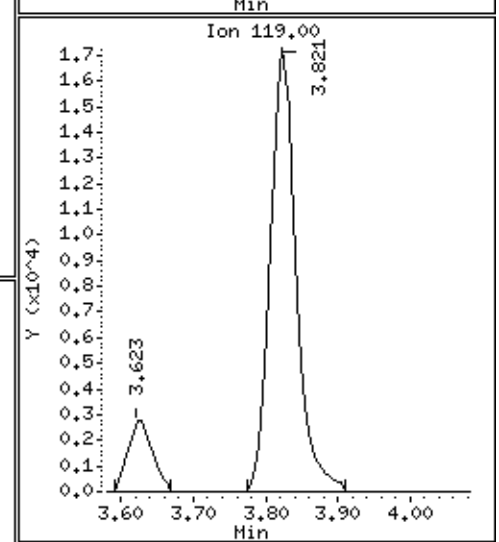


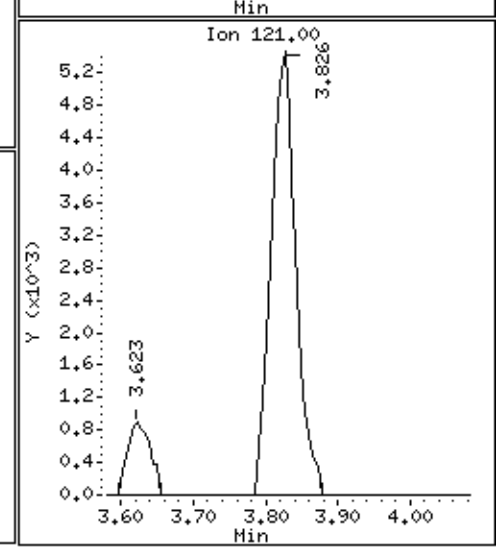












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

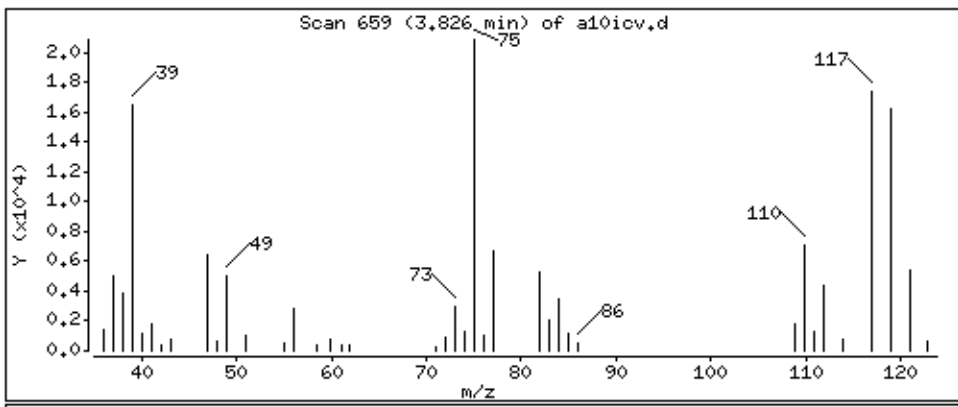
Client ID: 8260-ICV | Instrument: 50mv5a.i

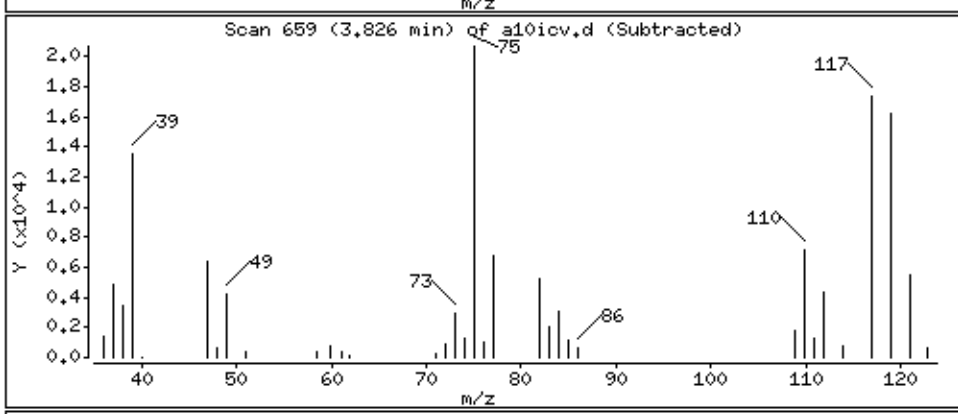
Sample Info: 8260-ICV,140022:0

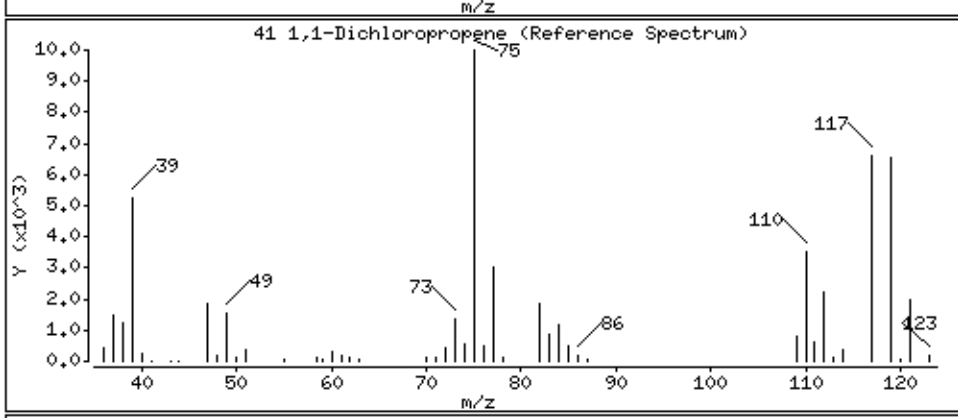
Purge Volume: 5.0 | Operator: TMW

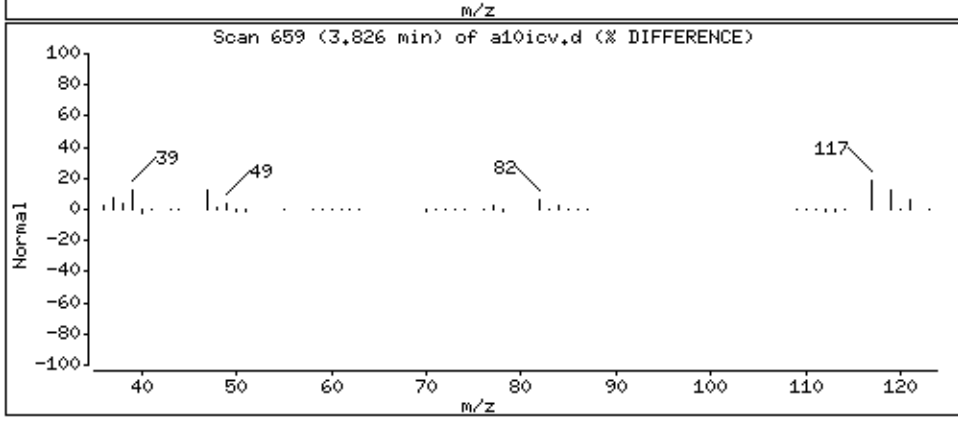
Column phase: DB-624 | Column diameter: 0.18

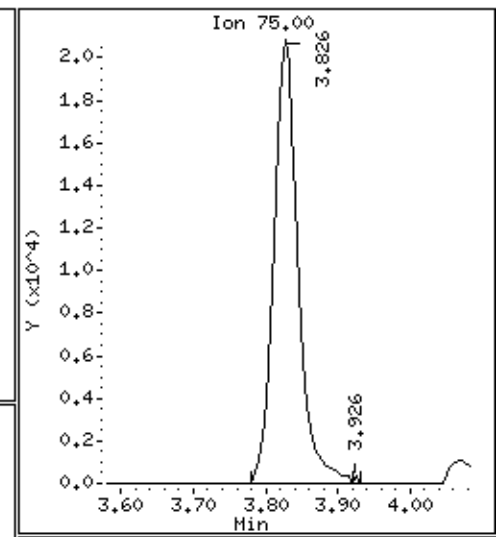
41 1,1-Dichloropropene | Concentration: 49.2 ppb

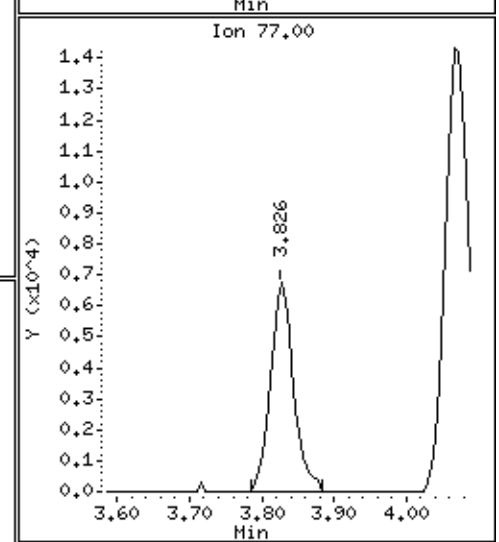


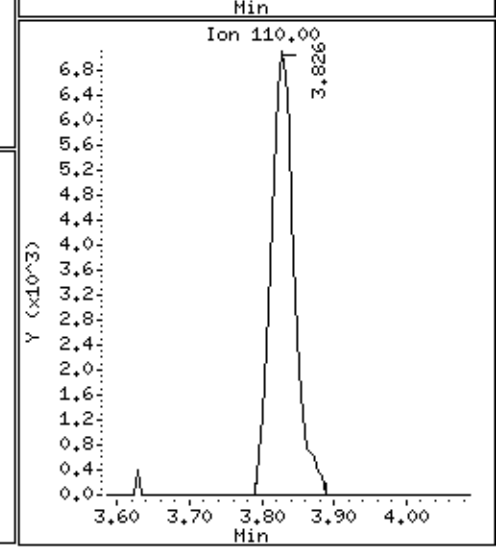












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

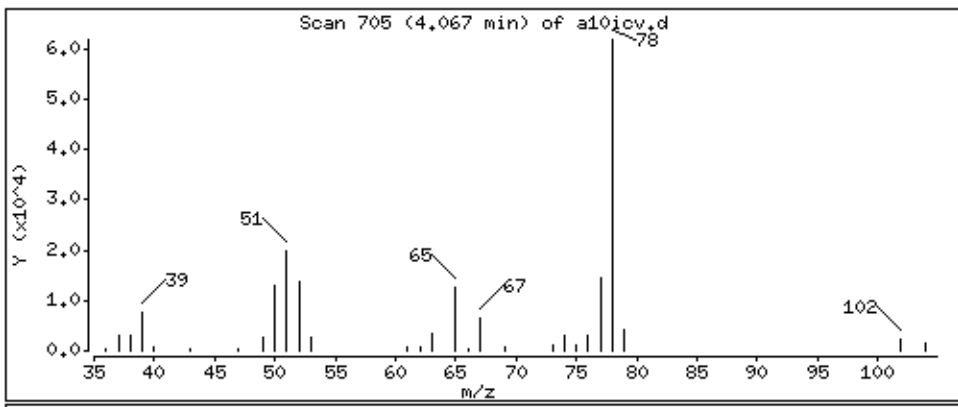
Client ID: 8260-ICV | Instrument: 50mv5a.i

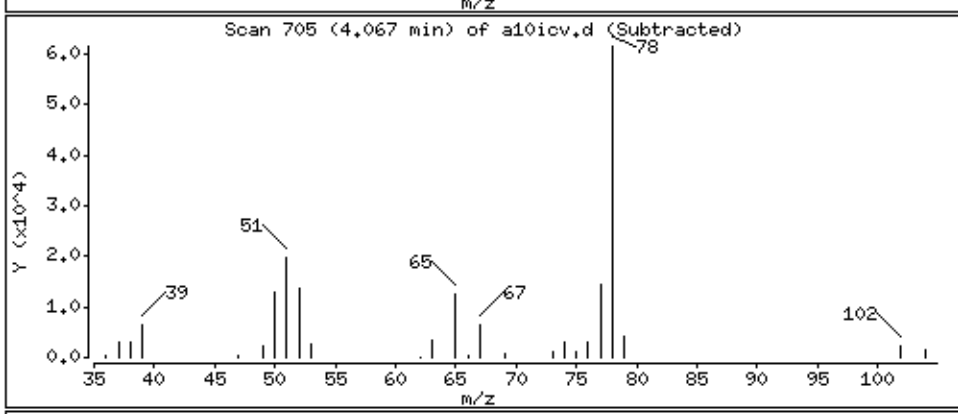
Sample Info: 8260-ICV,140022:0

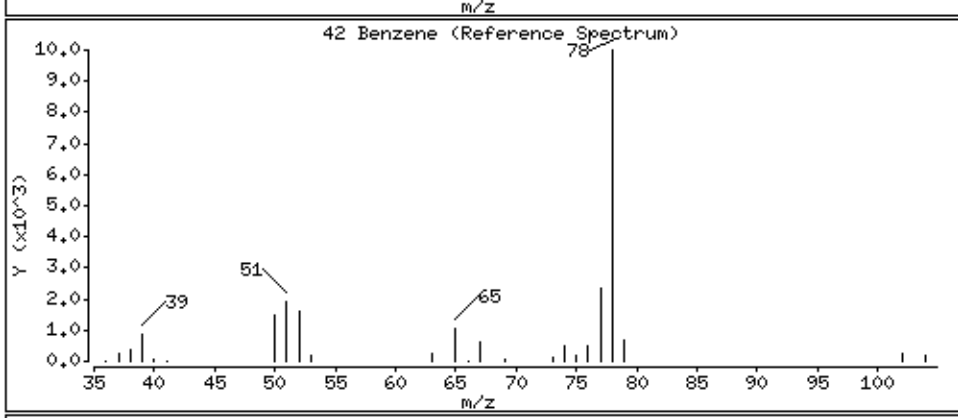
Purge Volume: 5.0 | Operator: TMW

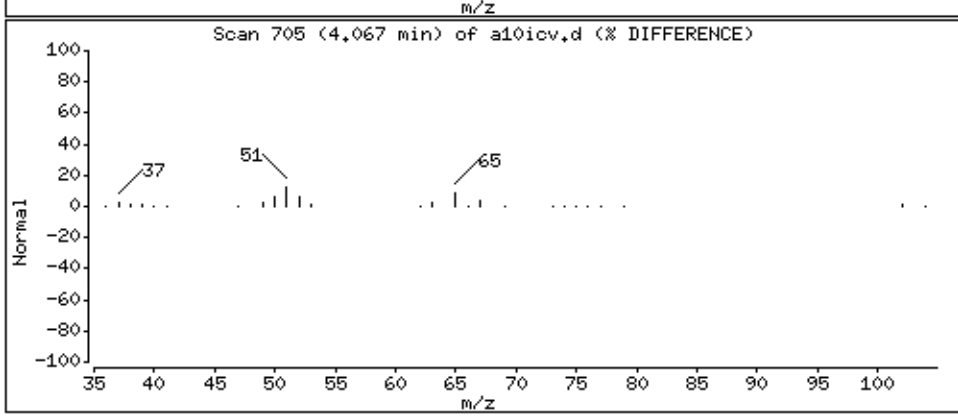
Column phase: DB-624 | Column diameter: 0.18

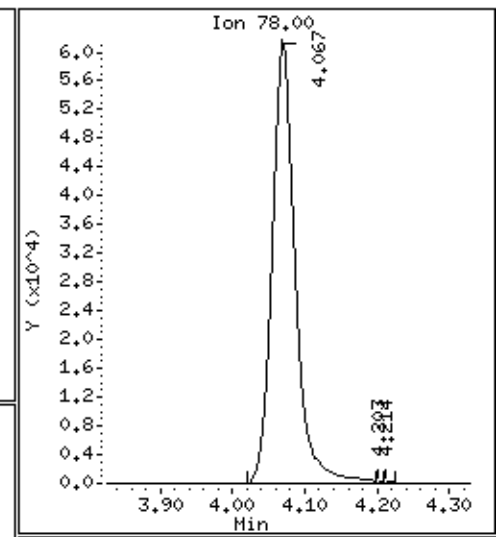
42 Benzene | Concentration: 46.0 ppb

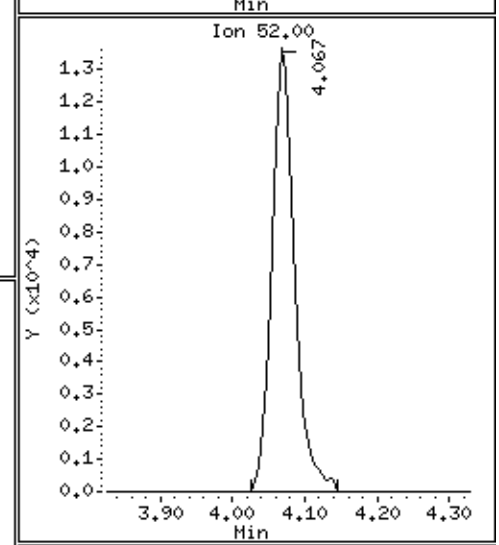


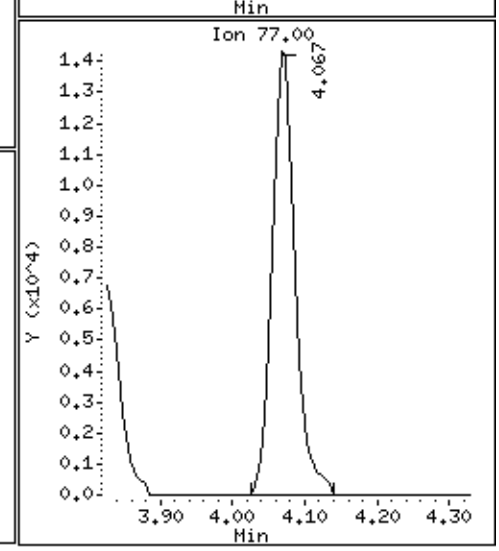












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

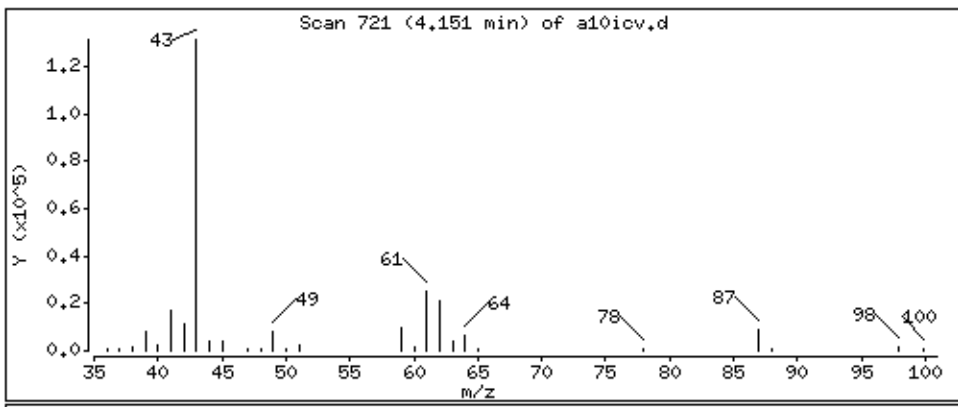
Client ID: 8260-ICV | Instrument: 50mv5a.i

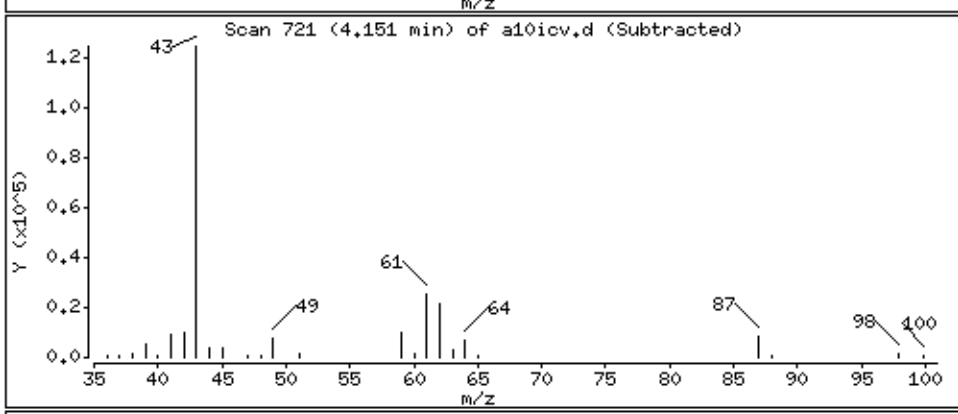
Sample Info: 8260-ICV,140022:0

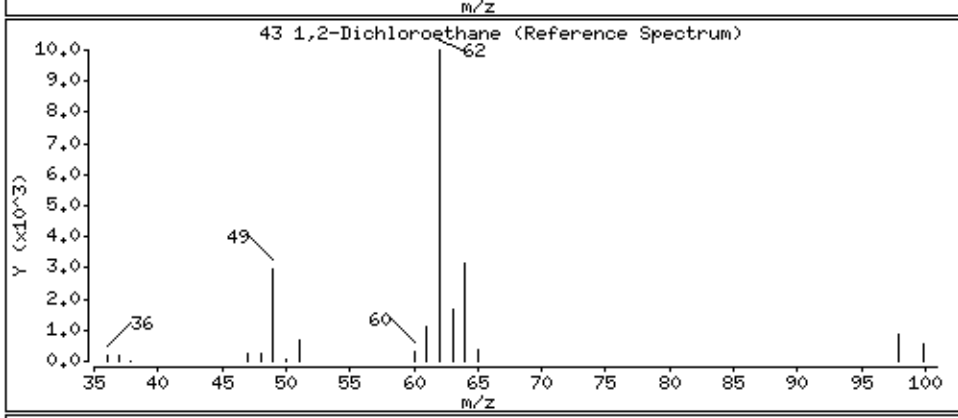
Purge Volume: 5.0 | Operator: TMW

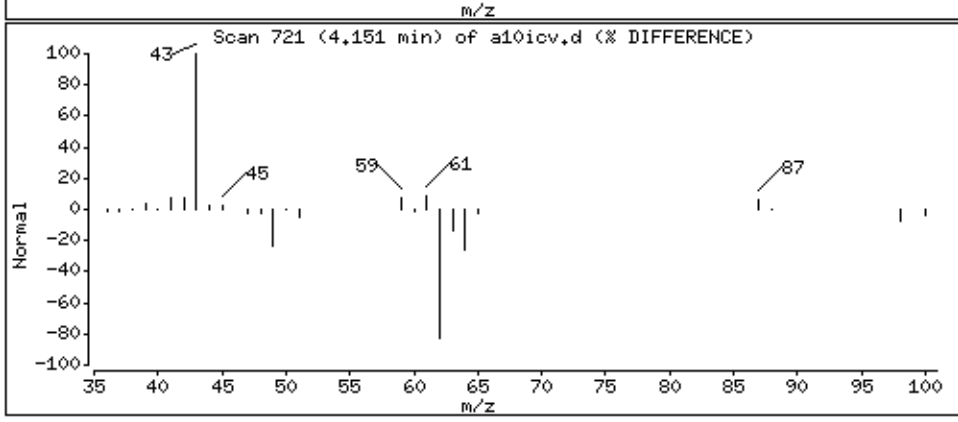
Column phase: DB-624 | Column diameter: 0.18

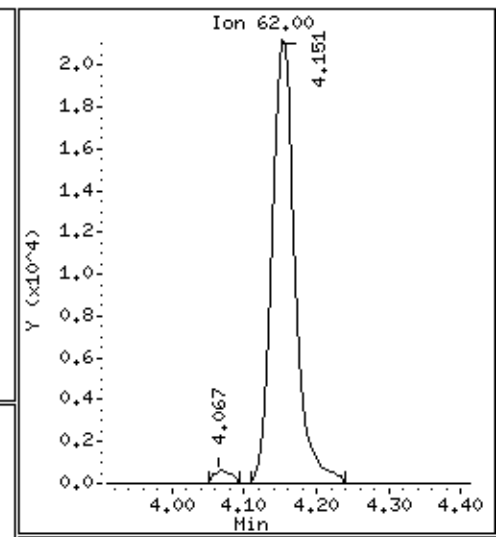
43 1,2-Dichloroethane | Concentration: 49.2 ppb

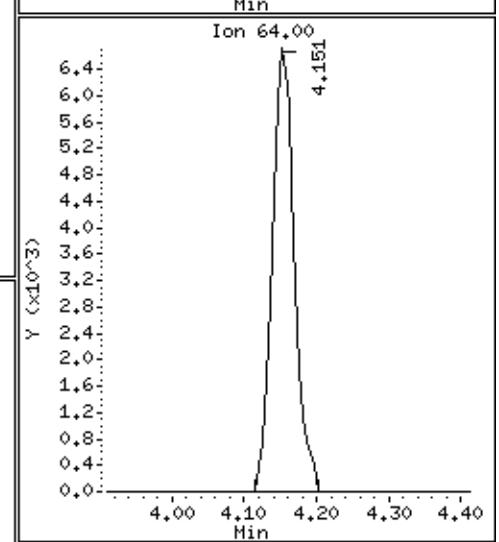


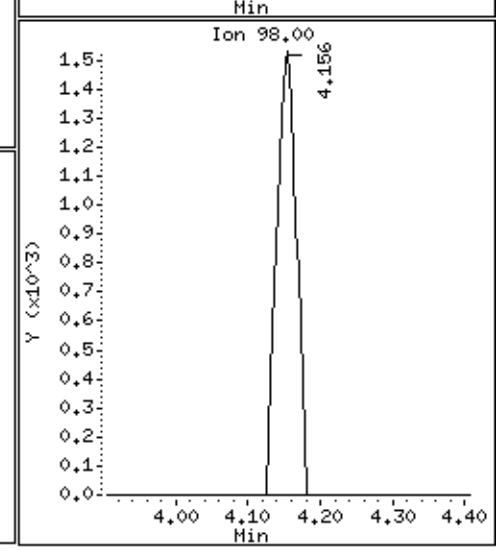












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

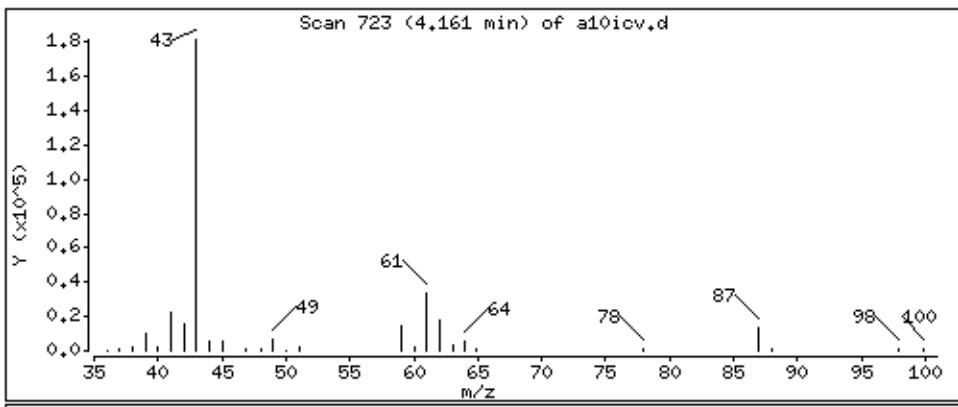
Client ID: 8260-ICV | Instrument: 50mv5a.i

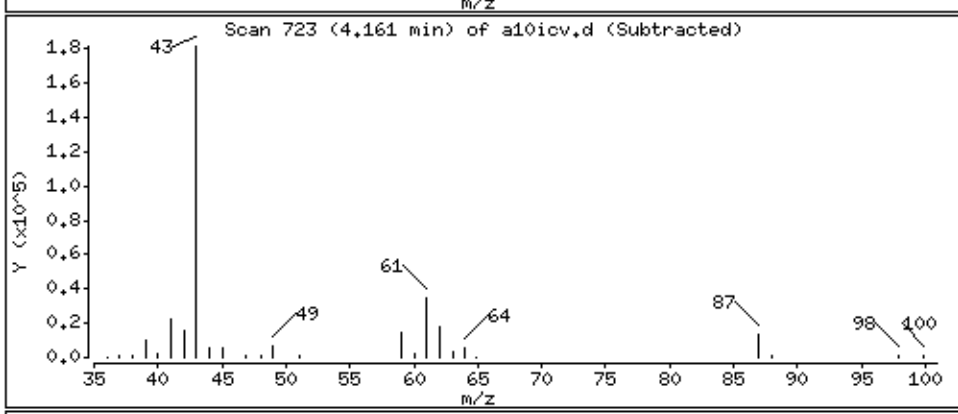
Sample Info: 8260-ICV,140022:0

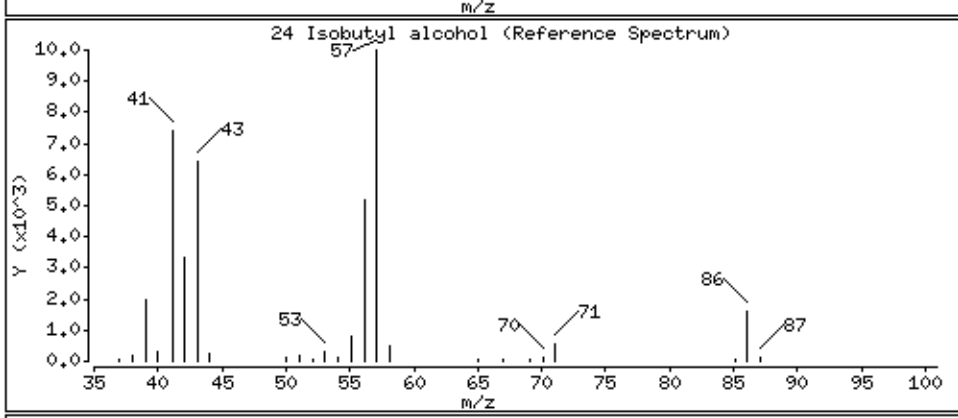
Purge Volume: 5.0 | Operator: TMW

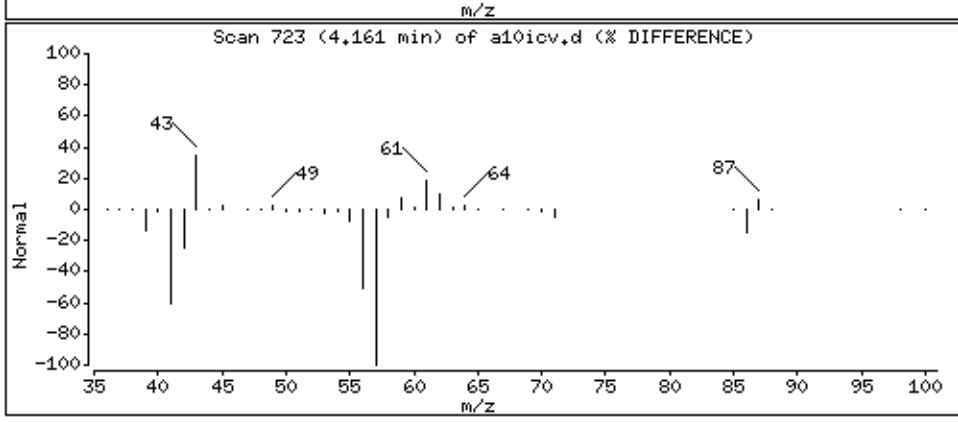
Column phase: DB-624 | Column diameter: 0.18

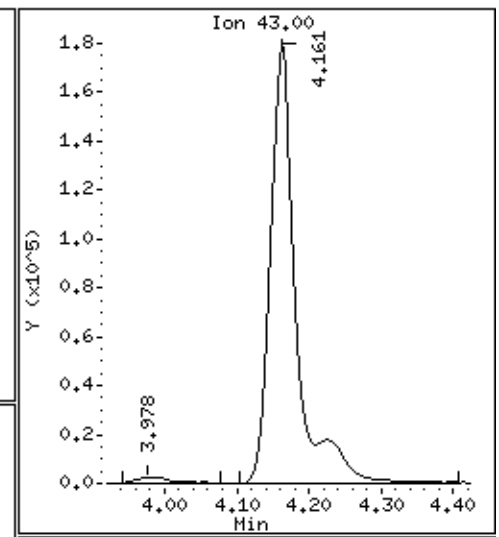
24 Isobutyl alcohol | Concentration: 75.1 ppb

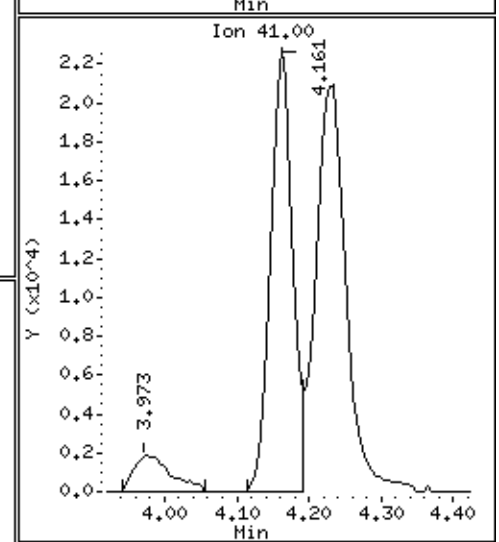


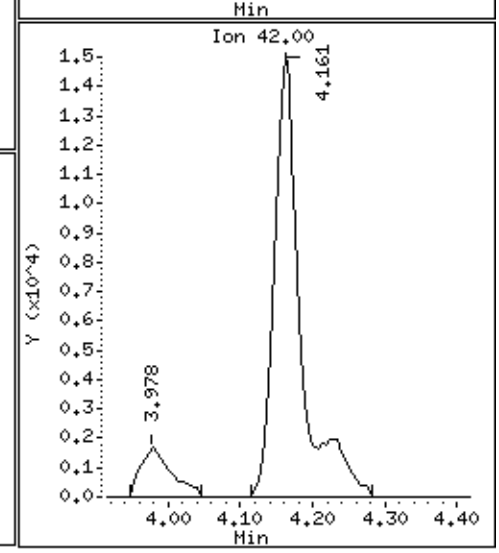












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

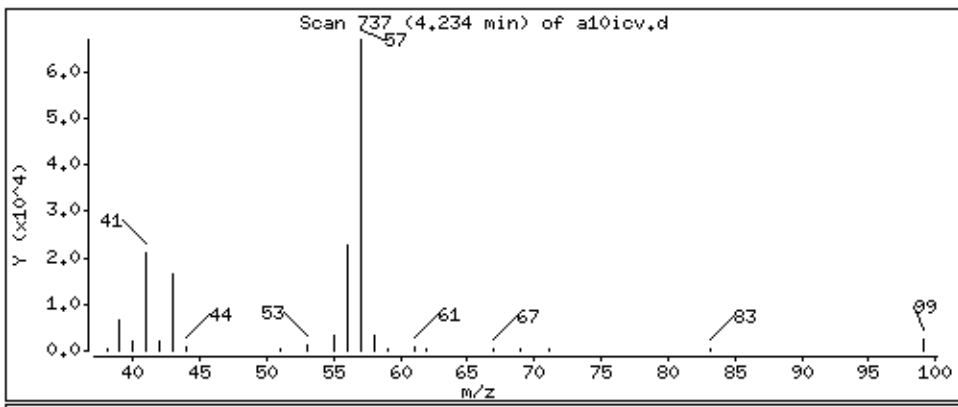
Client ID: 8260-ICV | Instrument: 50mv5a.i

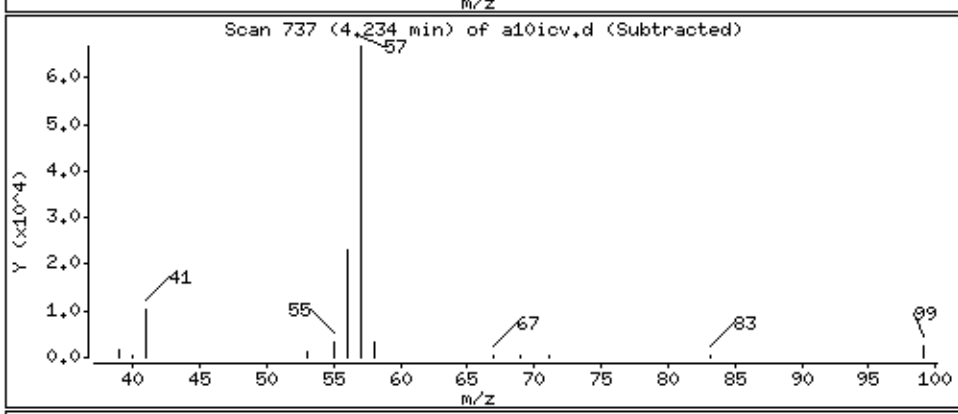
Sample Info: 8260-ICV,140022:0

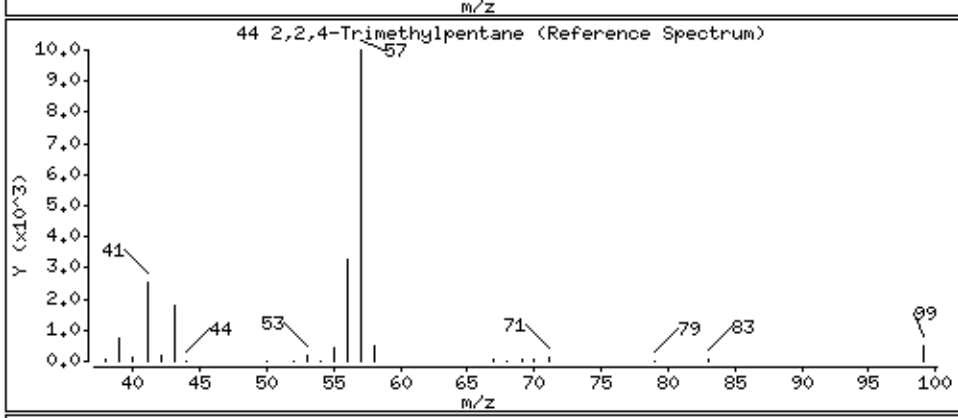
Purge Volume: 5.0 | Operator: TMW

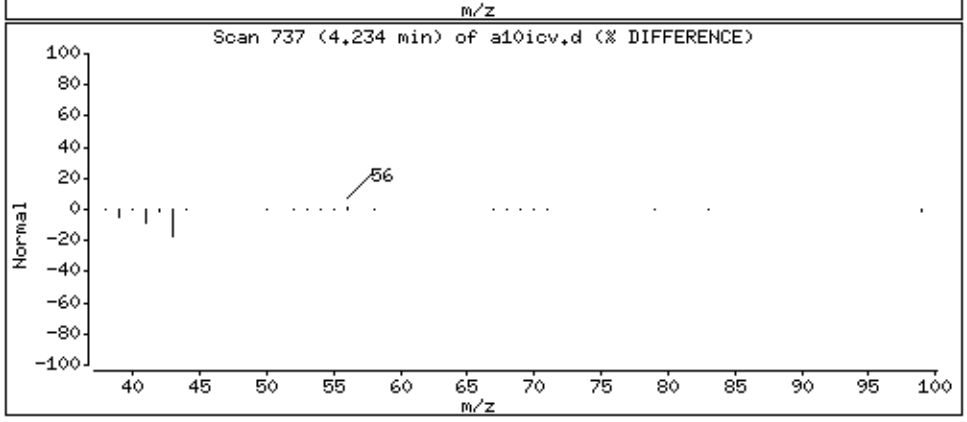
Column phase: DB-624 | Column diameter: 0.18

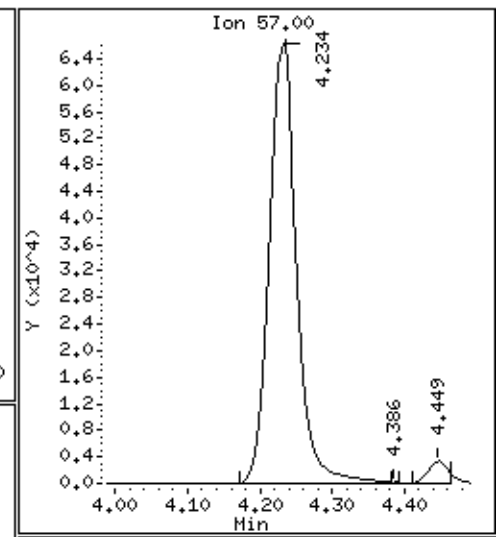
44 2,2,4-Trimethylpentane | Concentration: 54.0 ppb

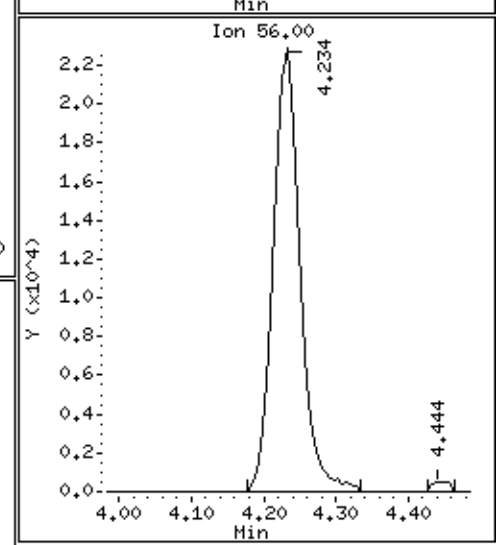












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

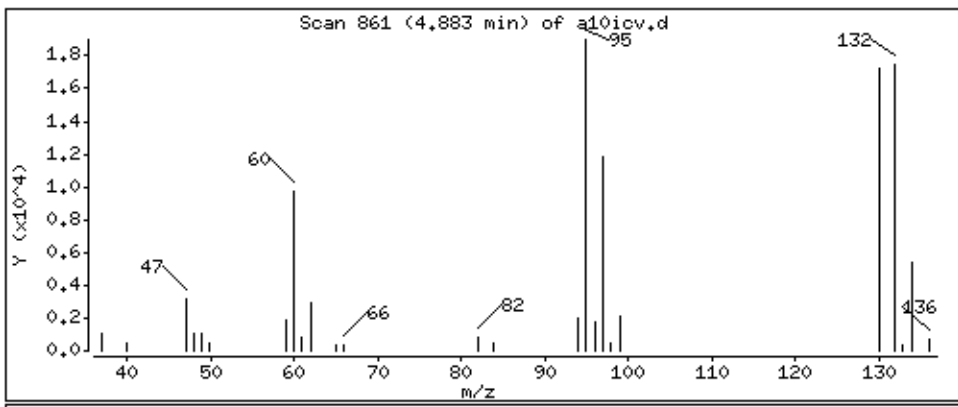
Client ID: 8260-ICV | Instrument: 50mv5a.i

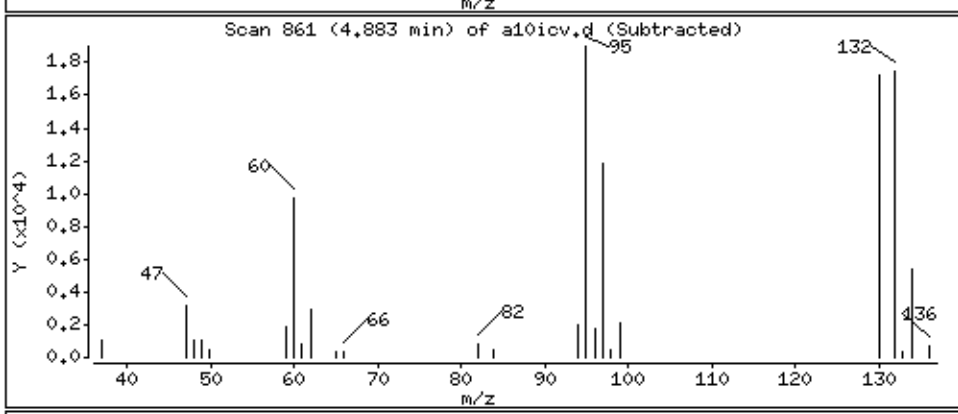
Sample Info: 8260-ICV,140022:0

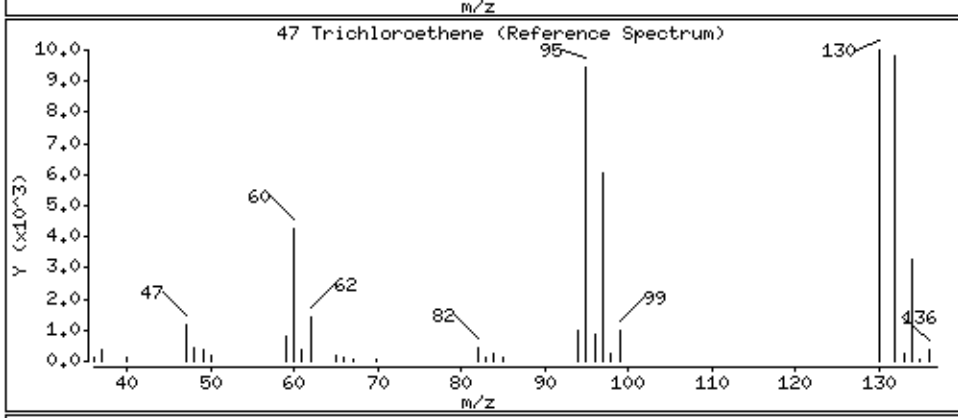
Purge Volume: 5.0 | Operator: TMW

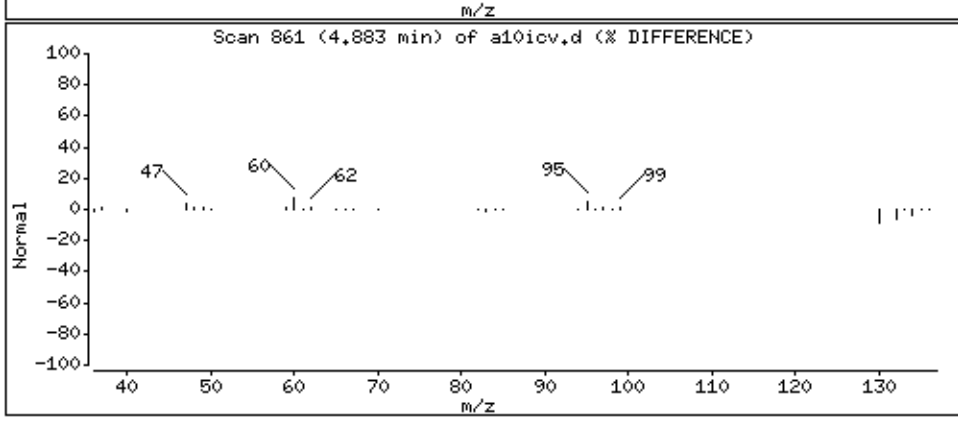
Column phase: DB-624 | Column diameter: 0.18

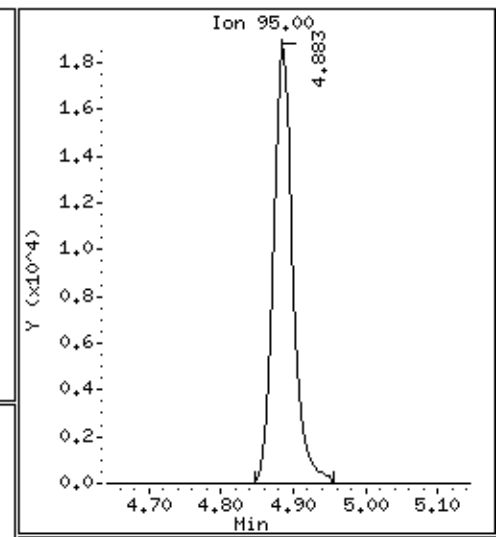
47 Trichloroethene | Concentration: 46.5 ppb

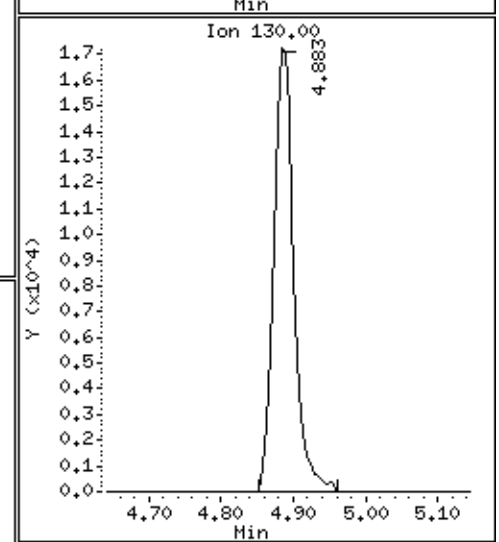


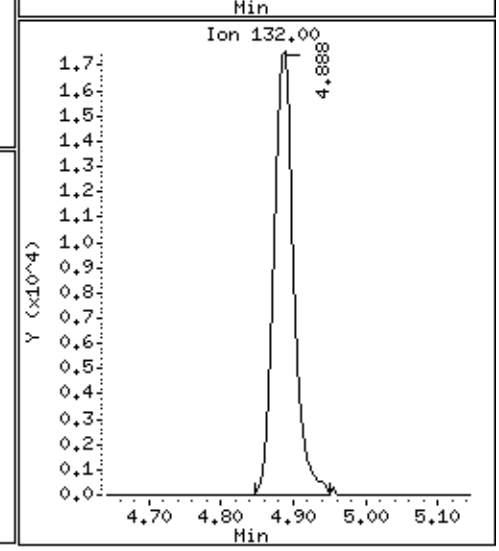












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

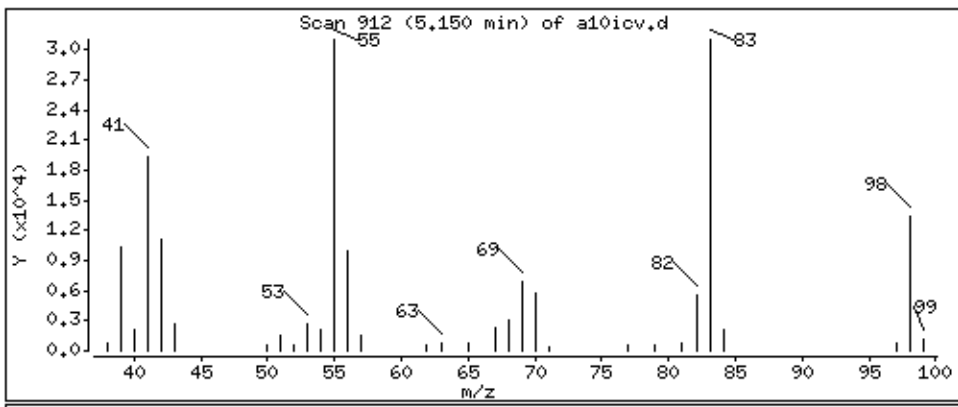
Client ID: 8260-ICV | Instrument: 50mv5a.i

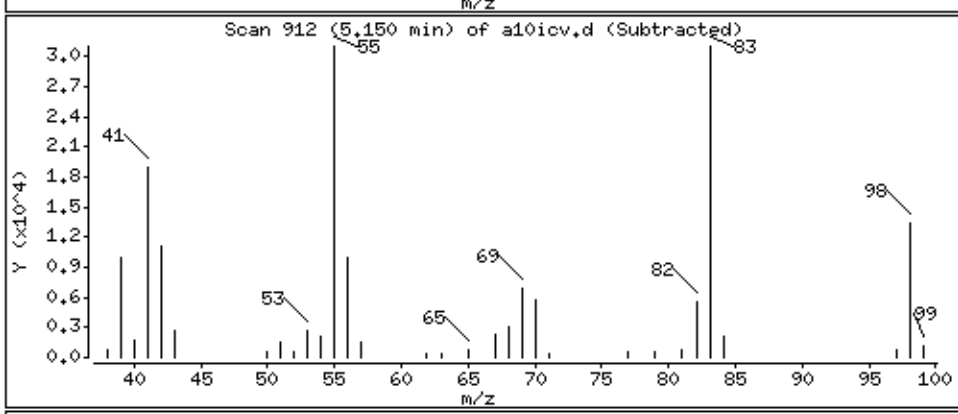
Sample Info: 8260-ICV,140022:0

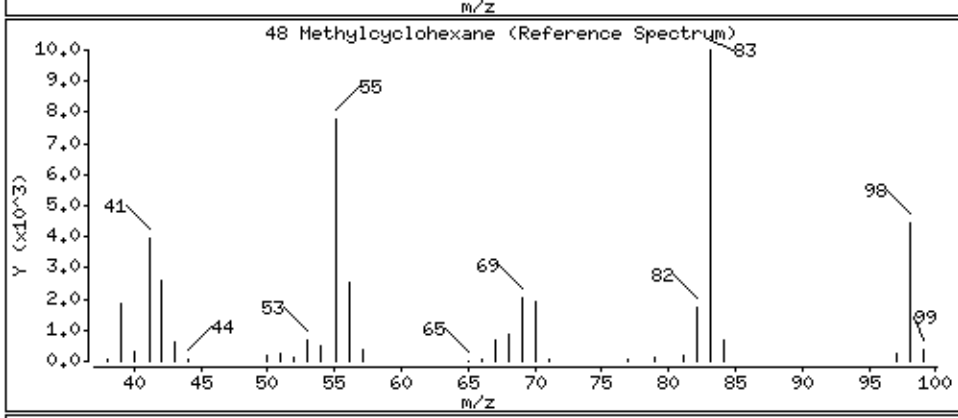
Purge Volume: 5.0 | Operator: TMW

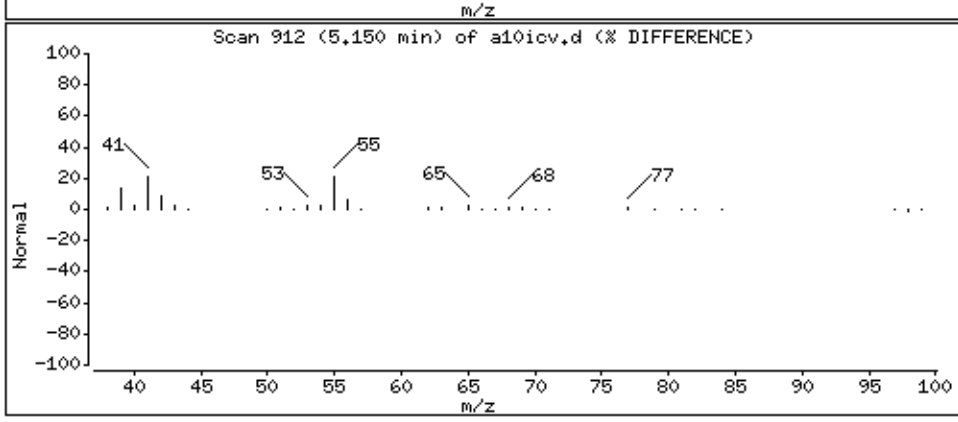
Column phase: DB-624 | Column diameter: 0.18

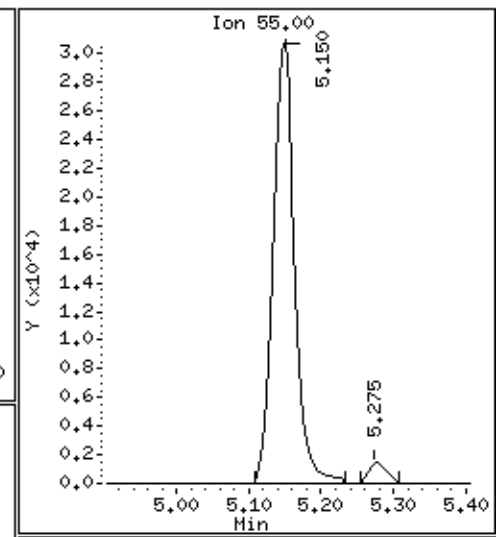
48 Methylcyclohexane | Concentration: 50.8 ppb

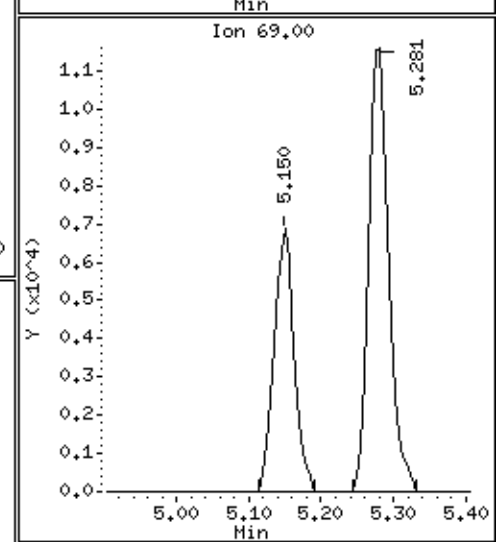


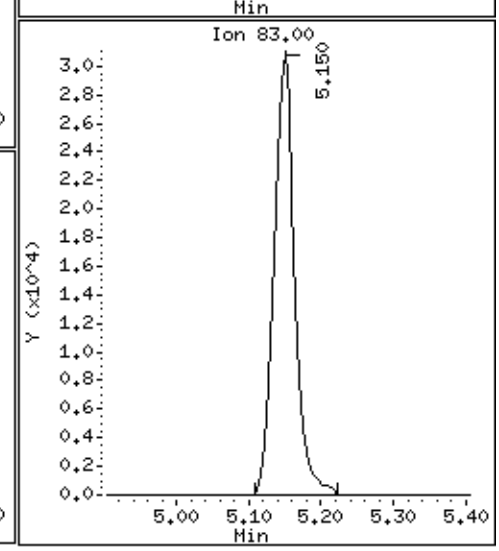












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

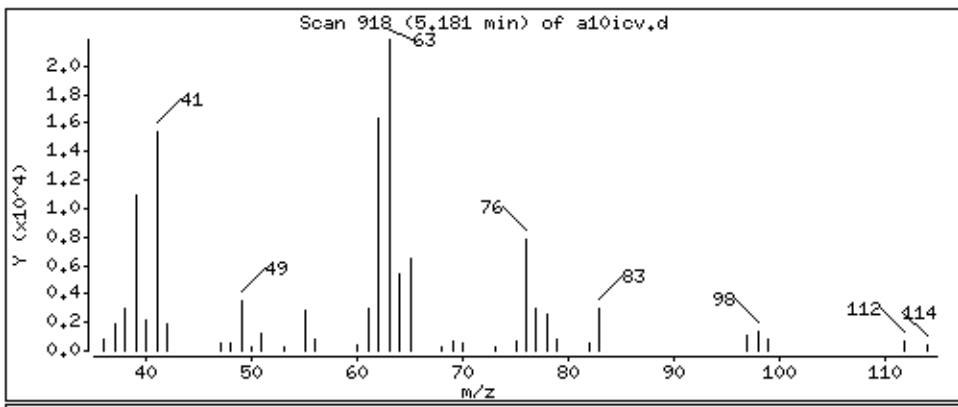
Client ID: 8260-ICV | Instrument: 50mv5a.i

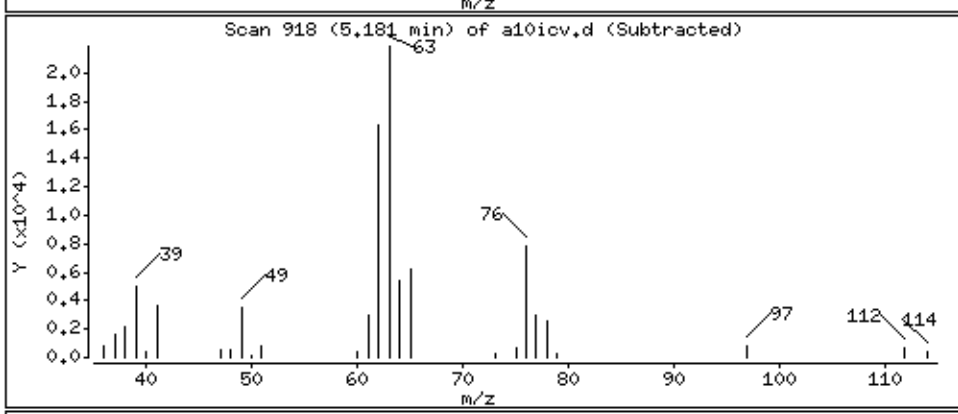
Sample Info: 8260-ICV,140022:0

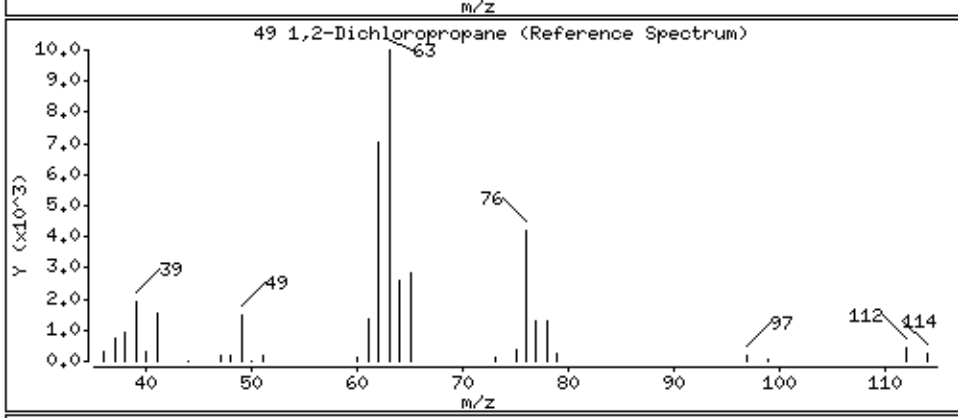
Purge Volume: 5.0 | Operator: TMW

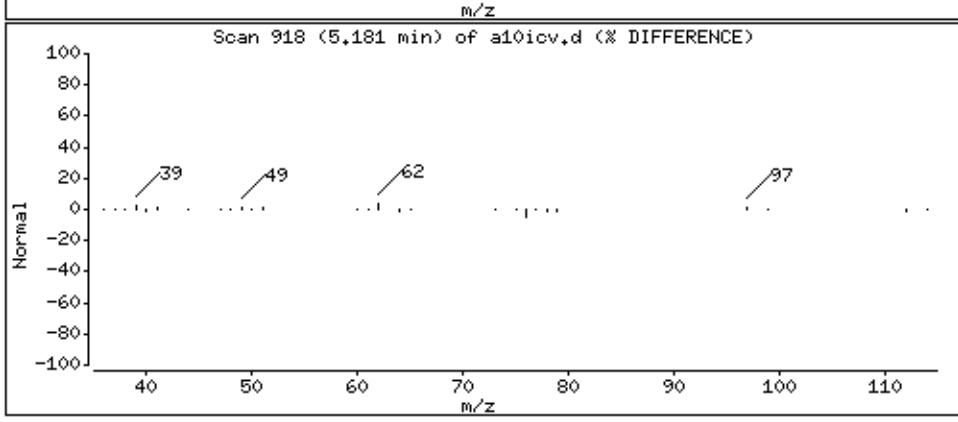
Column phase: DB-624 | Column diameter: 0.18

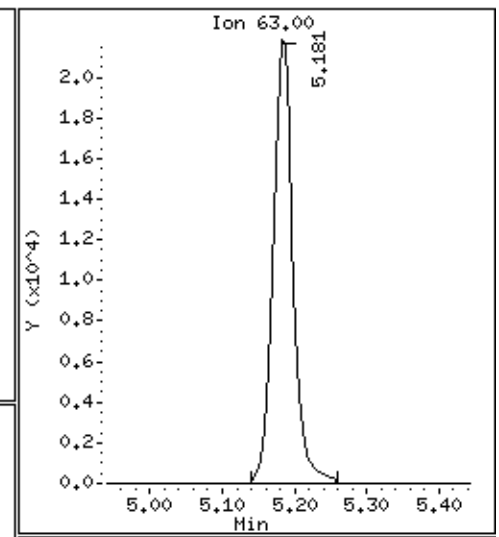
49 1,2-Dichloropropane | Concentration: 50.8 ppb

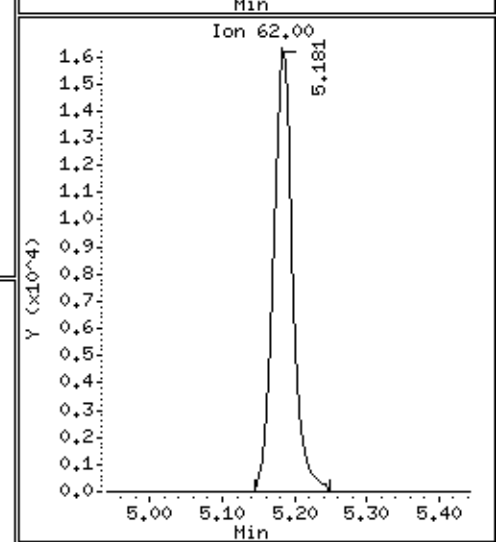


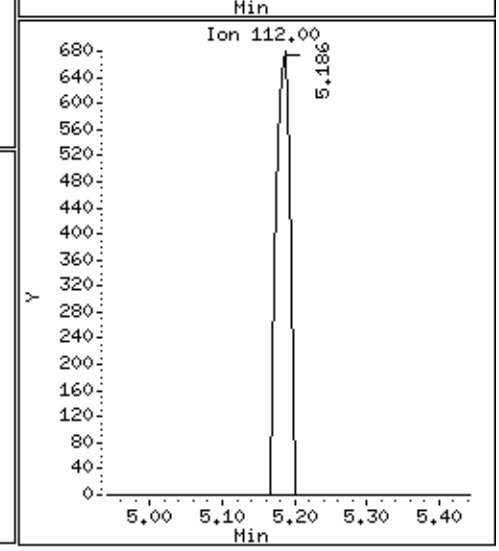












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

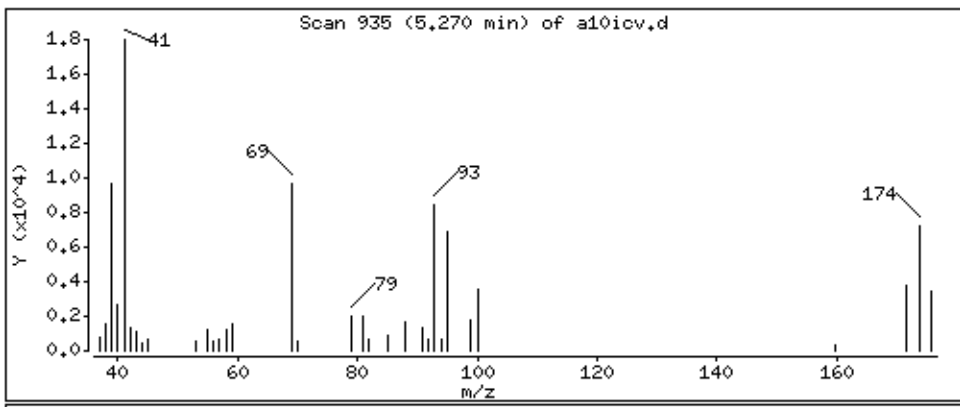
Client ID: 8260-ICV | Instrument: 50mv5a.i

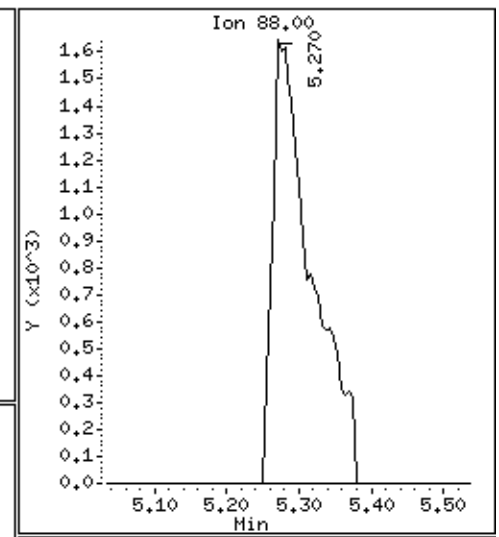
Sample Info: 8260-ICV,140022:0

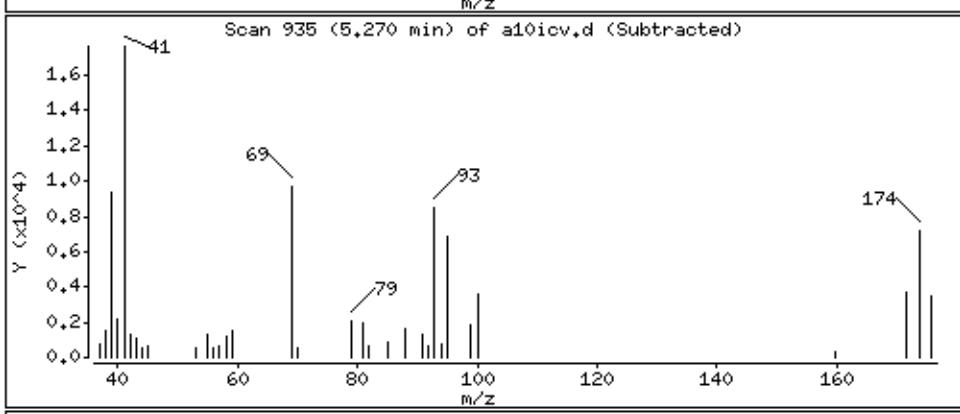
Purge Volume: 5.0 | Operator: TMW

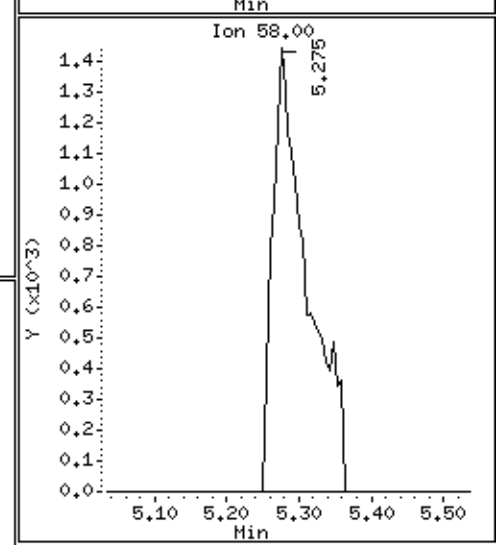
Column phase: DB-624 | Column diameter: 0.18

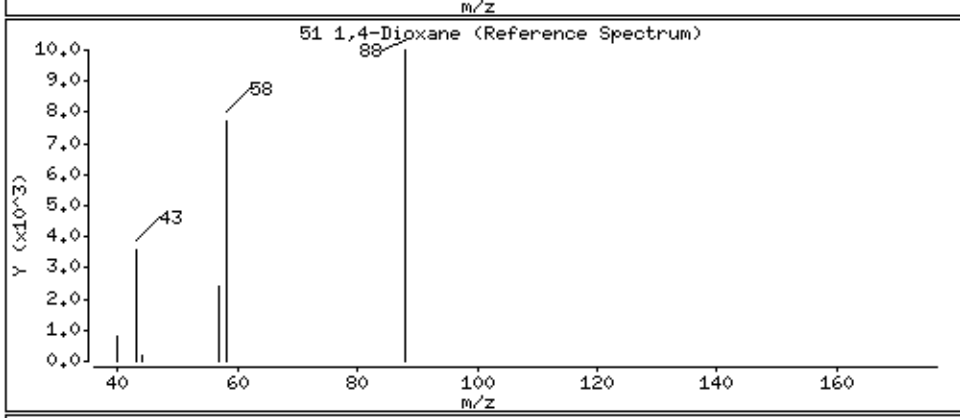
51 1,4-Dioxane | Concentration: 896 ppb

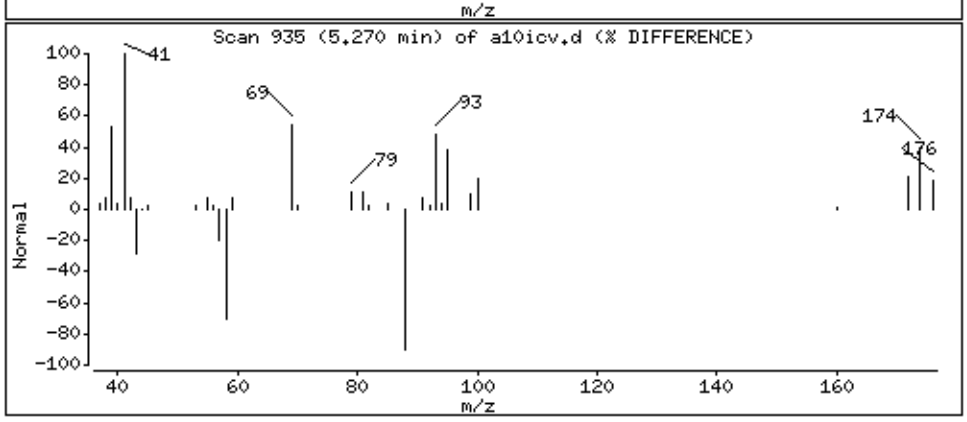












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

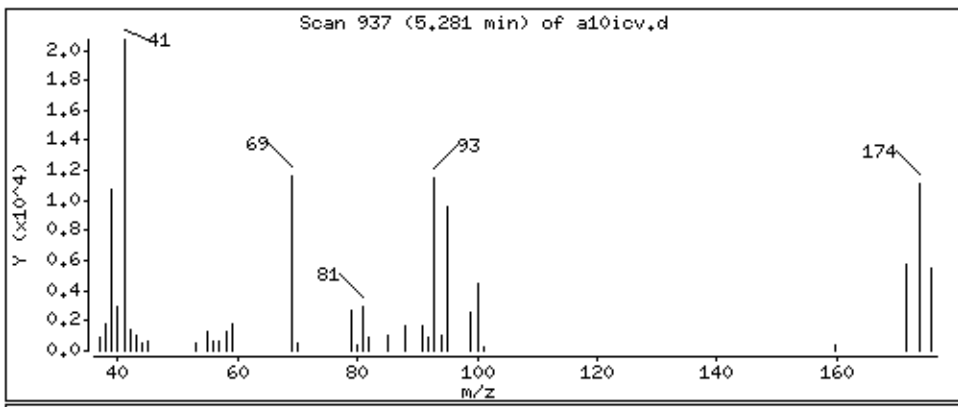
Client ID: 8260-ICV | Instrument: 50mv5a.i

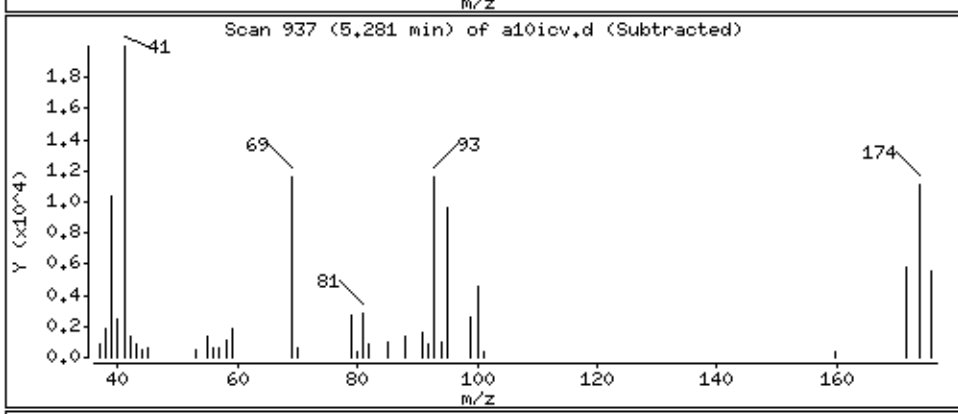
Sample Info: 8260-ICV,140022:0

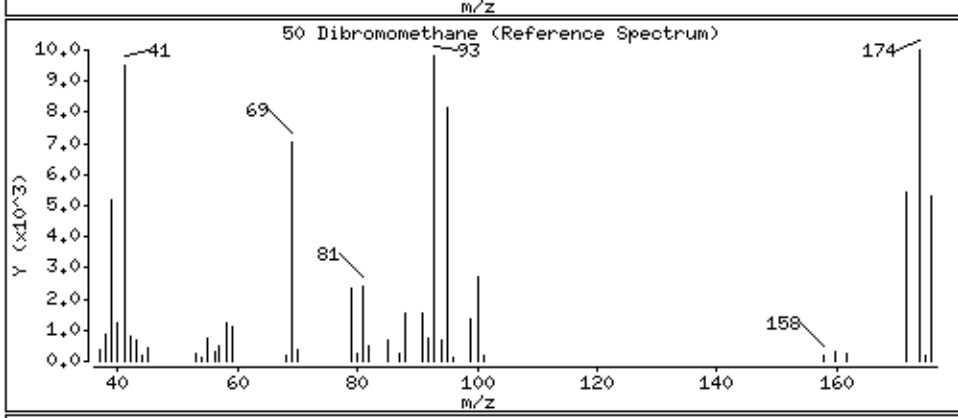
Purge Volume: 5.0 | Operator: TMW

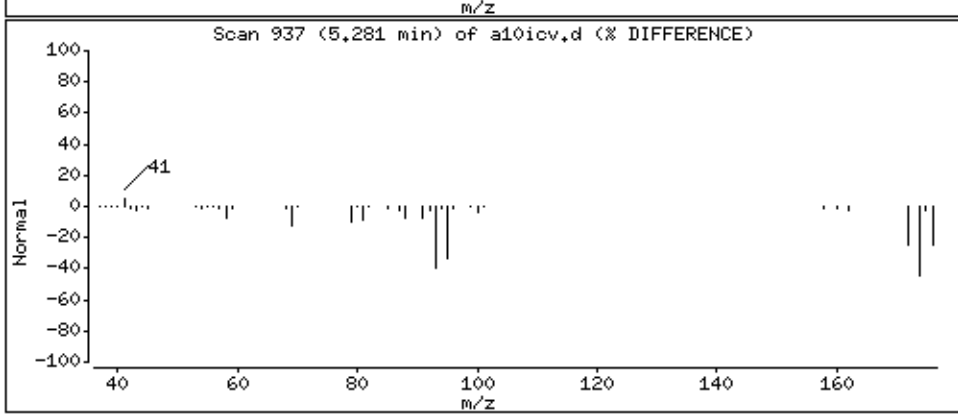
Column phase: DB-624 | Column diameter: 0.18

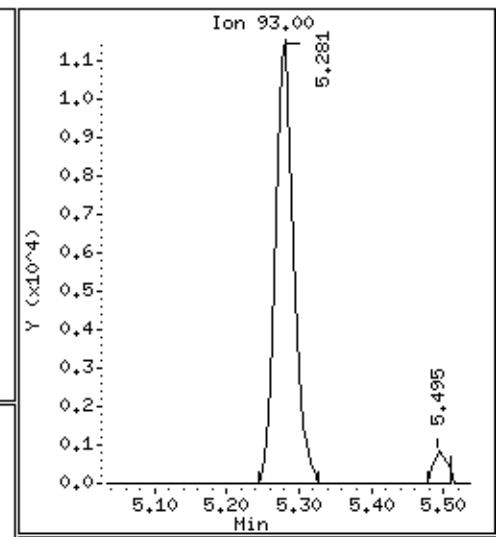
50 Dibromomethane | Concentration: 48.4 ppb

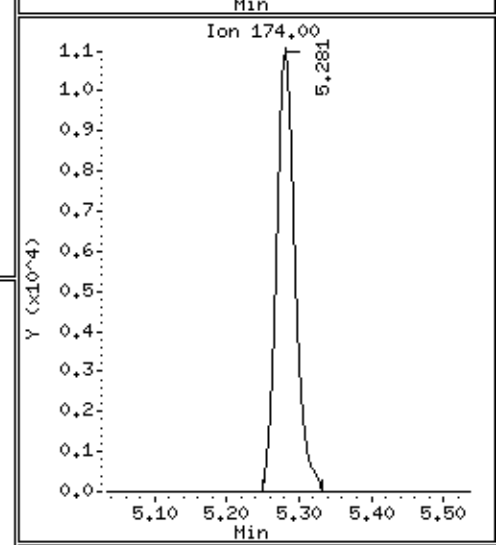


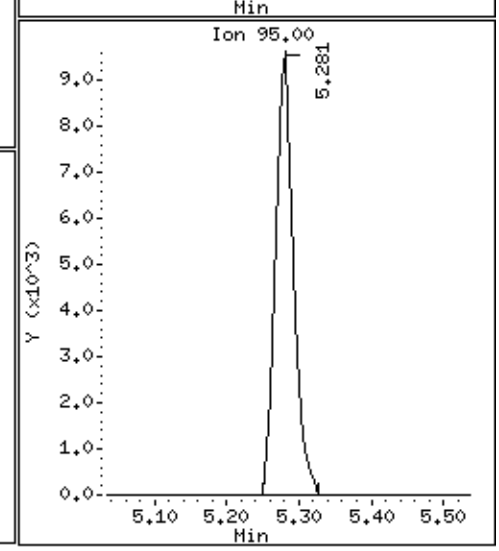












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

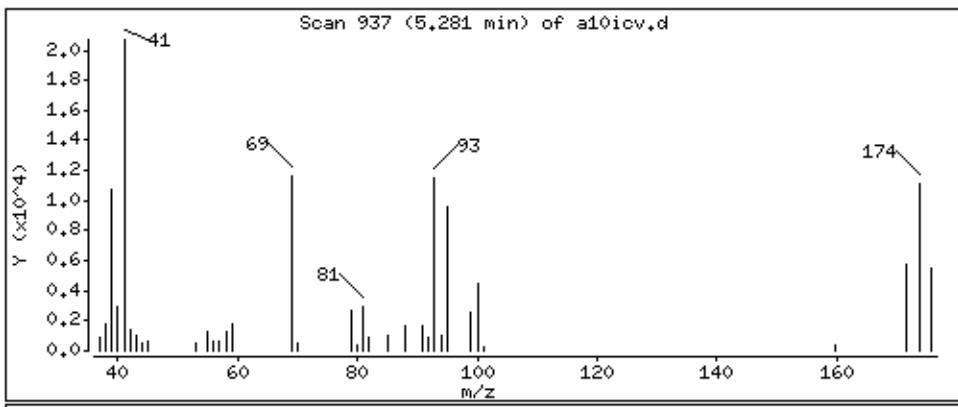
Client ID: 8260-ICV | Instrument: 50mv5a.i

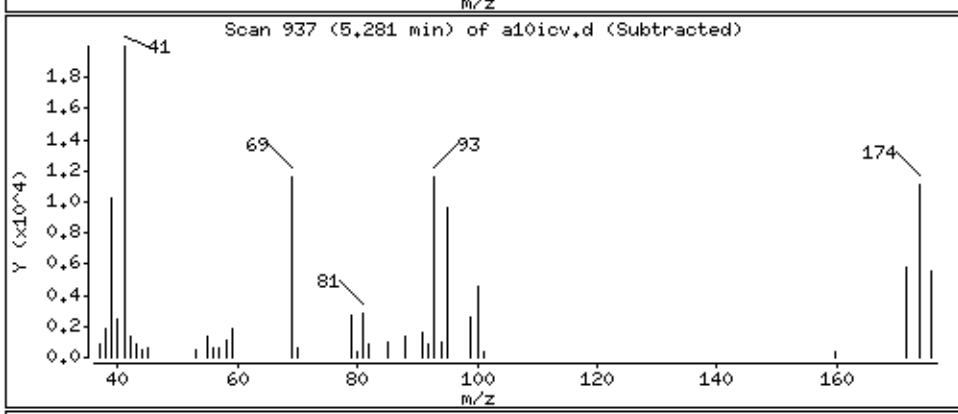
Sample Info: 8260-ICV,140022:0

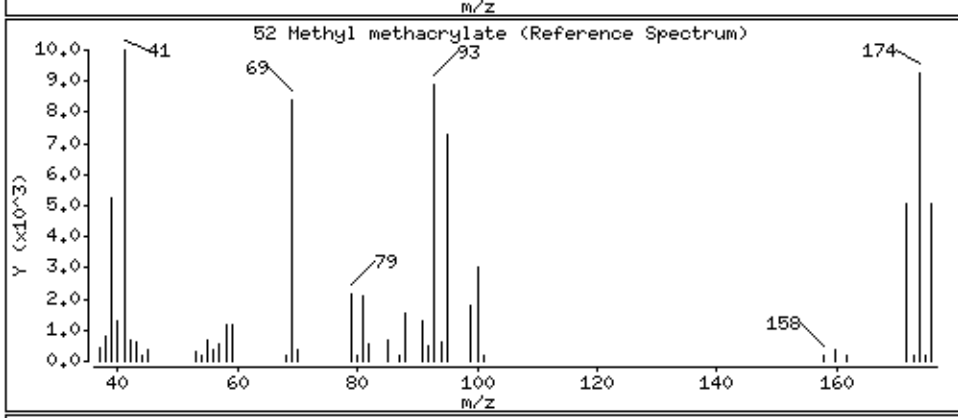
Purge Volume: 5.0 | Operator: TMW

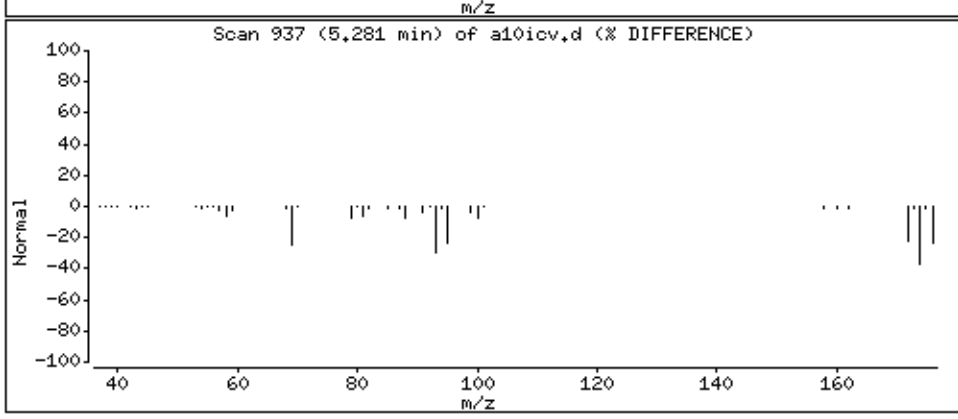
Column phase: DB-624 | Column diameter: 0.18

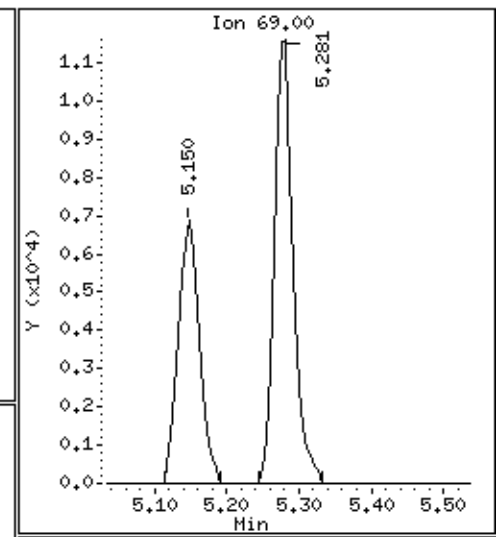
52 Methyl methacrylate | Concentration: 50.6 ppb

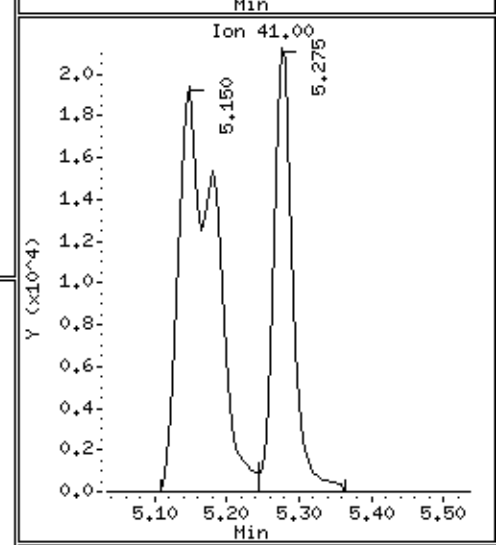


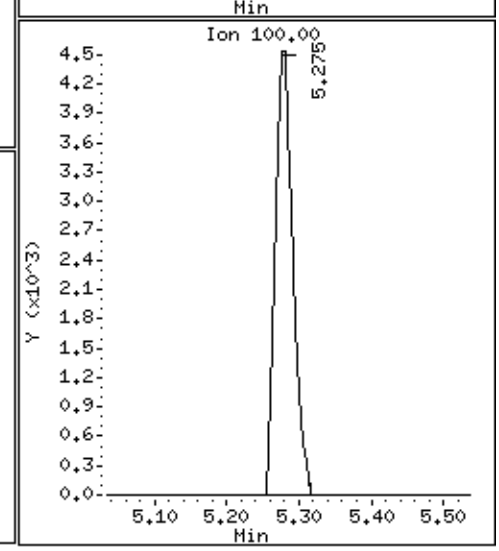












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

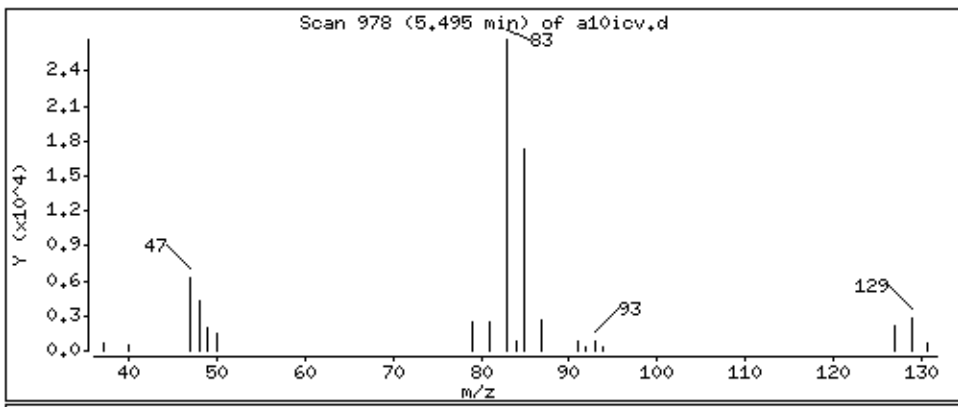
Client ID: 8260-ICV | Instrument: 50mv5a.i

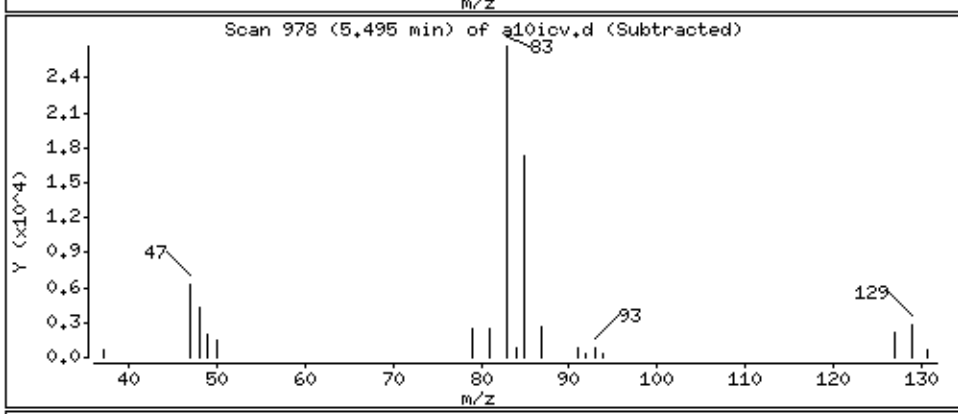
Sample Info: 8260-ICV,140022:0

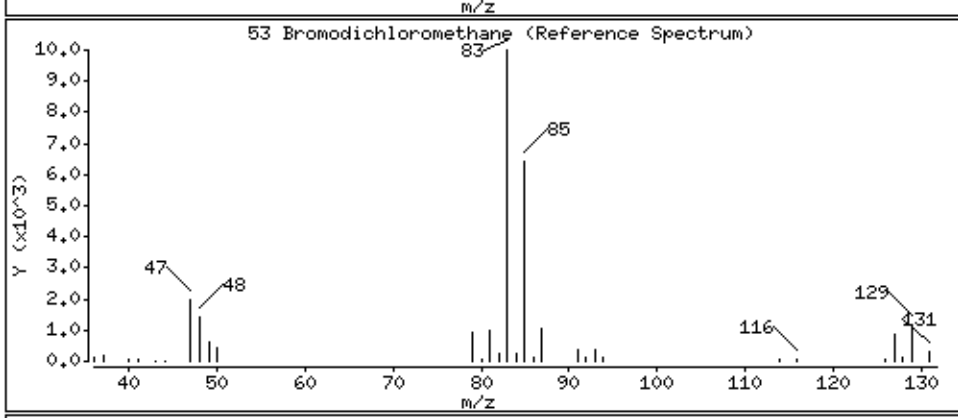
Purge Volume: 5.0 | Operator: TMW

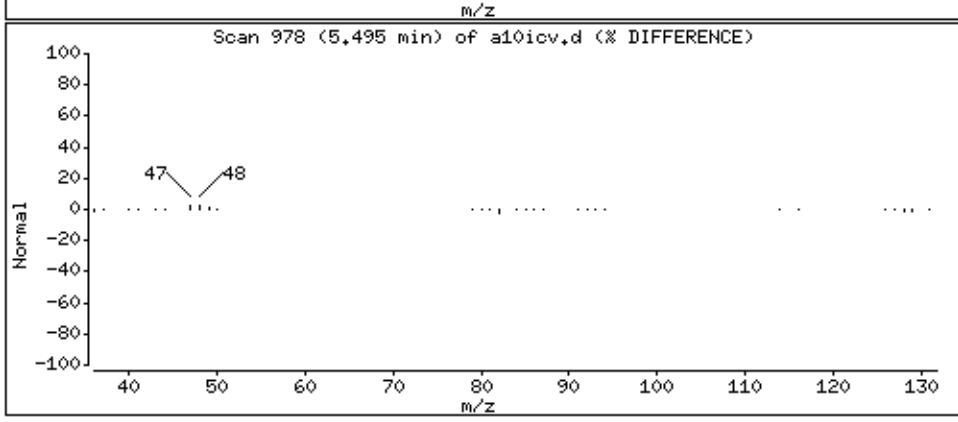
Column phase: DB-624 | Column diameter: 0.18

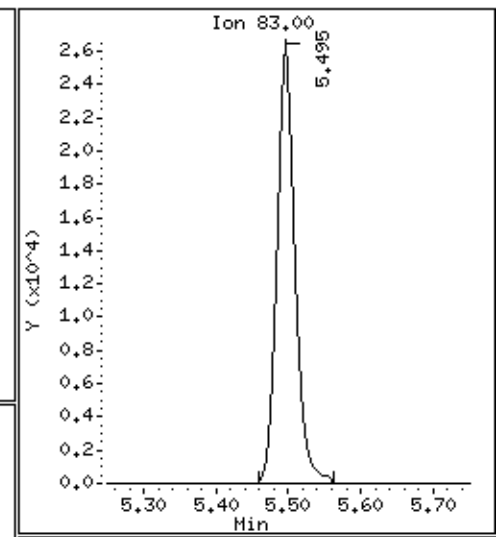
53 Bromodichloromethane | Concentration: 45.7 ppb

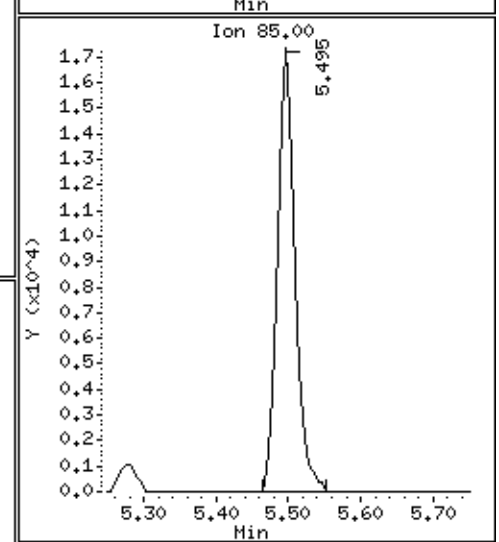


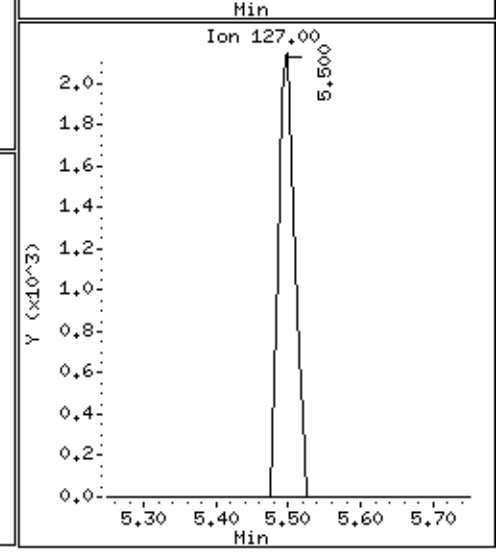












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

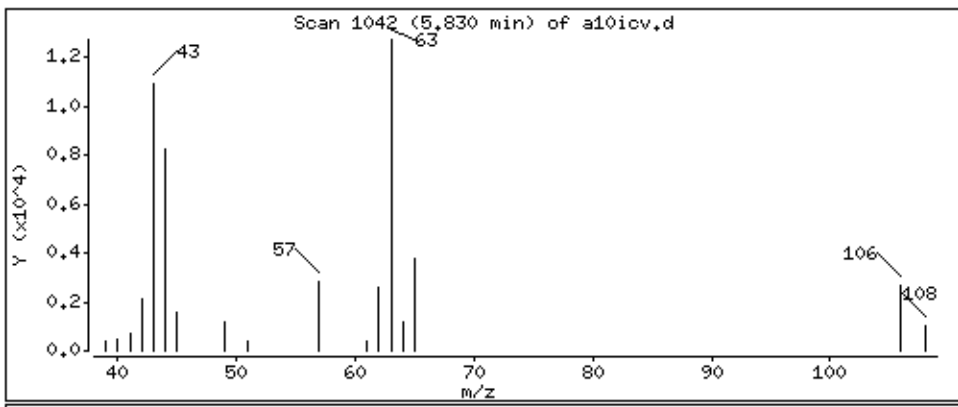
Client ID: 8260-ICV | Instrument: 50mv5a.i

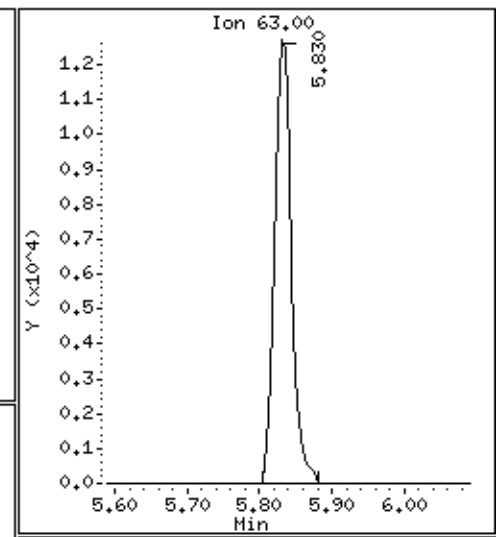
Sample Info: 8260-ICV,140022:0

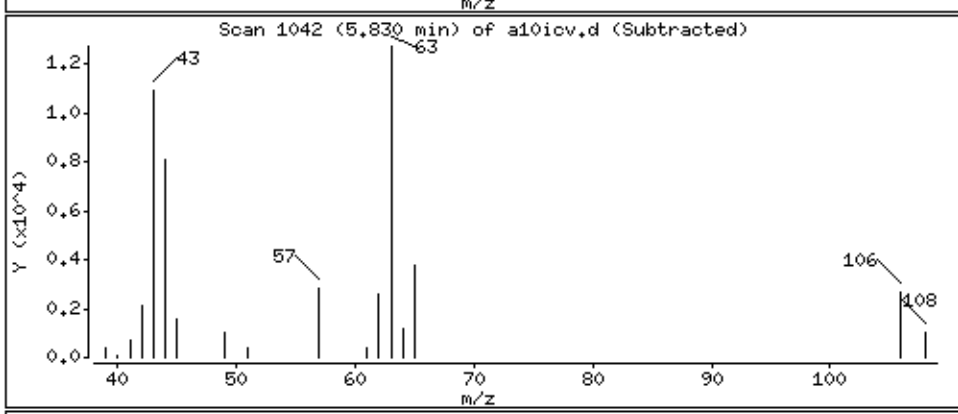
Purge Volume: 5.0 | Operator: TMW

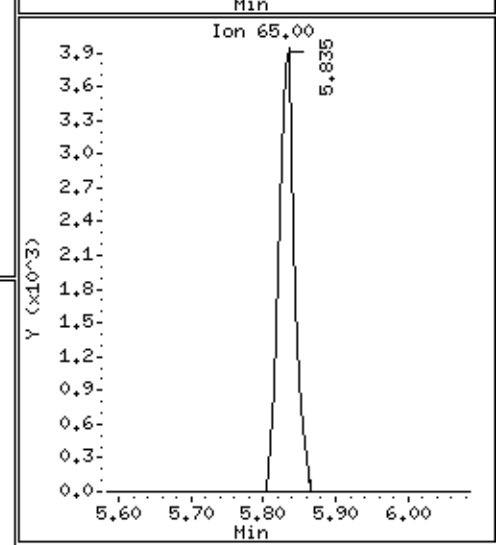
Column phase: DB-624 | Column diameter: 0.18

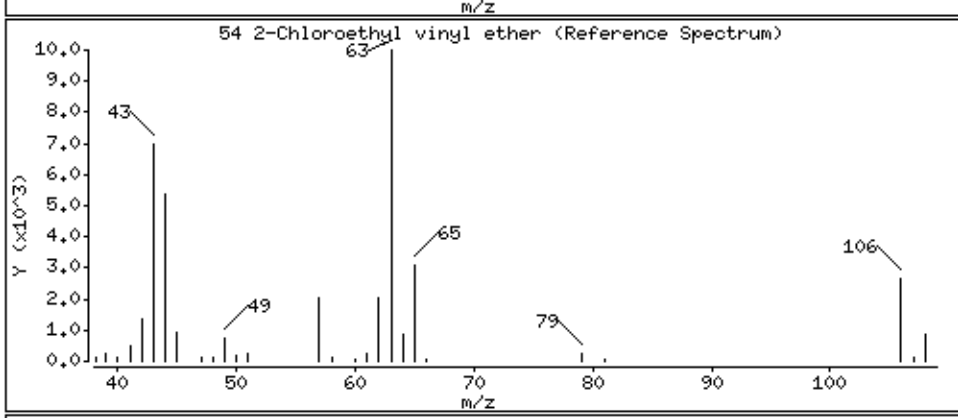
54 2-Chloroethyl vinyl ether | Concentration: 50.7 ppb

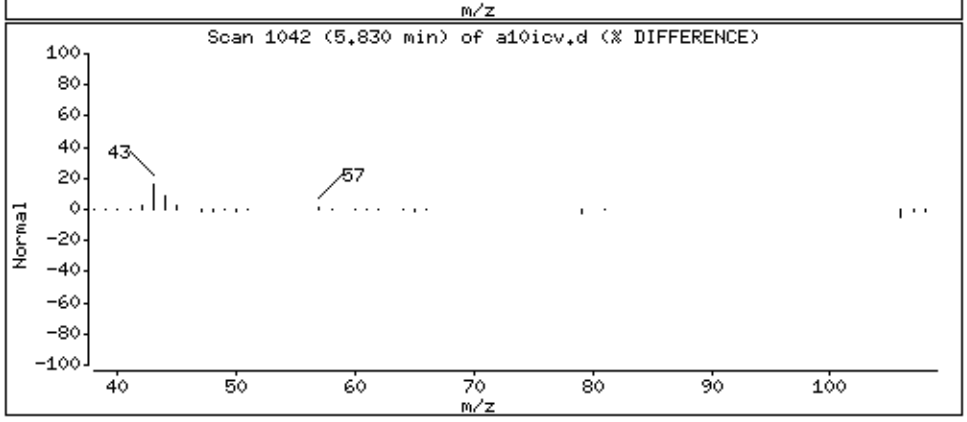












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

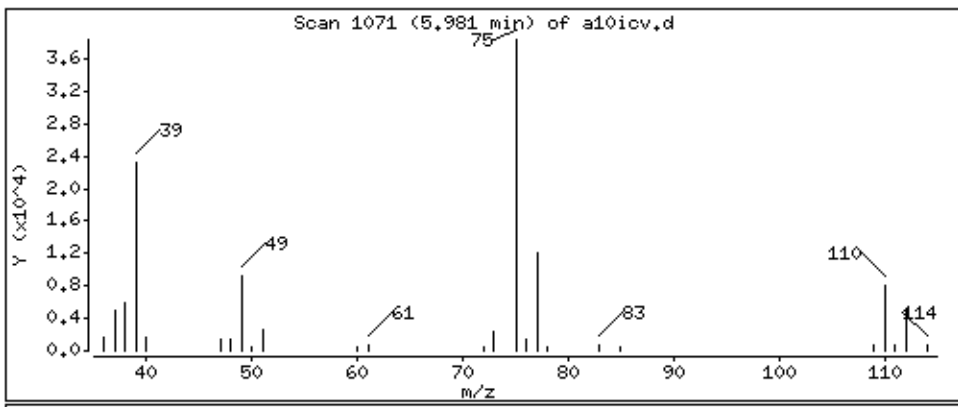
Client ID: 8260-ICV | Instrument: 50mv5a.i

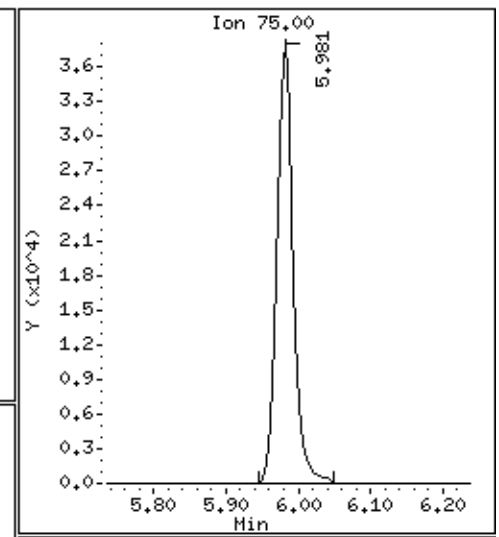
Sample Info: 8260-ICV,140022:0

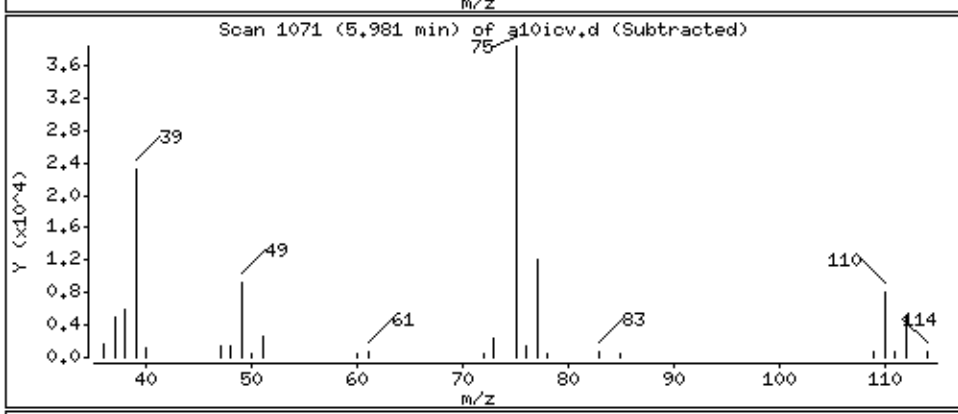
Purge Volume: 5.0 | Operator: TMW

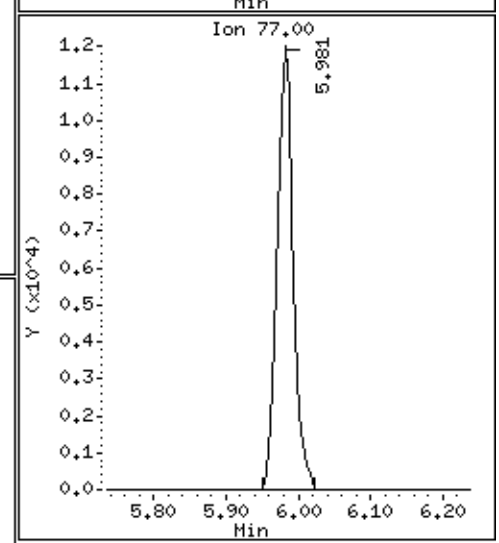
Column phase: DB-624 | Column diameter: 0.18

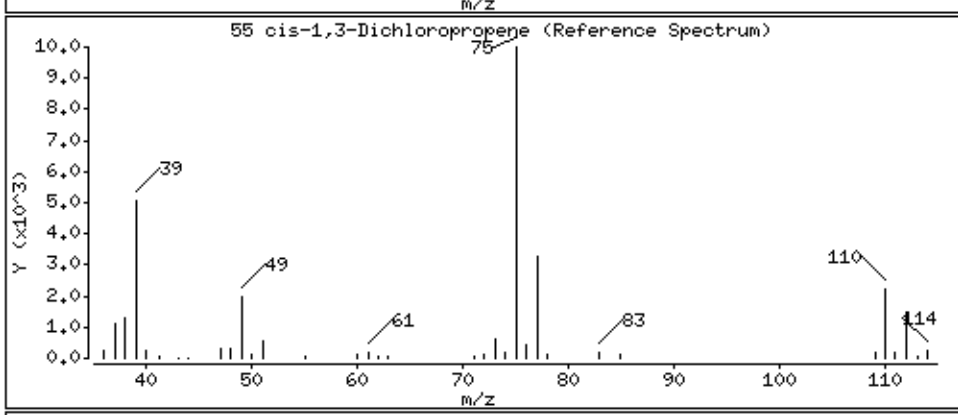
55 cis-1,3-Dichloropropene | Concentration: 50.7 ppb

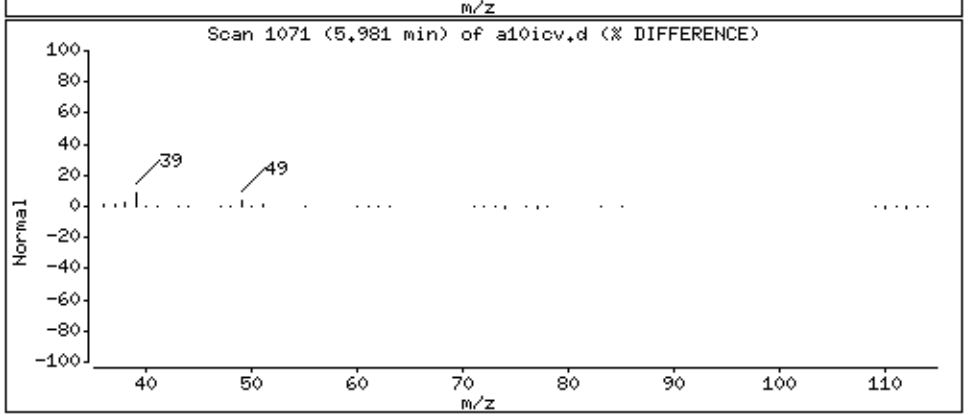












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

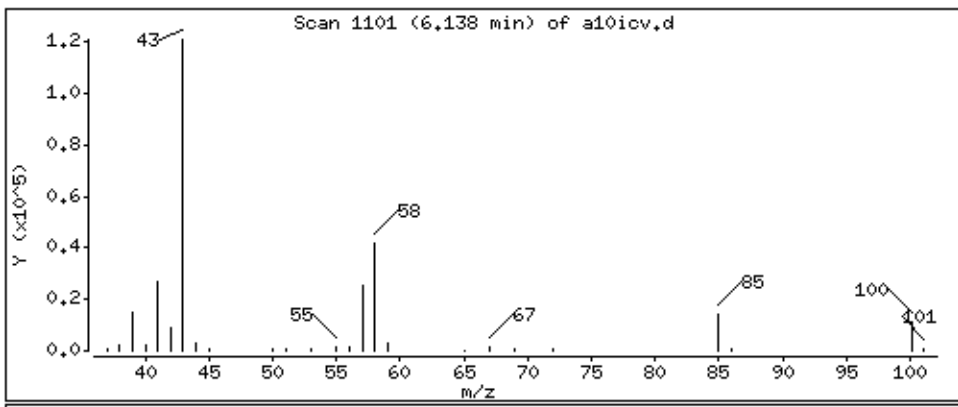
Client ID: 8260-ICV | Instrument: 50mv5a.i

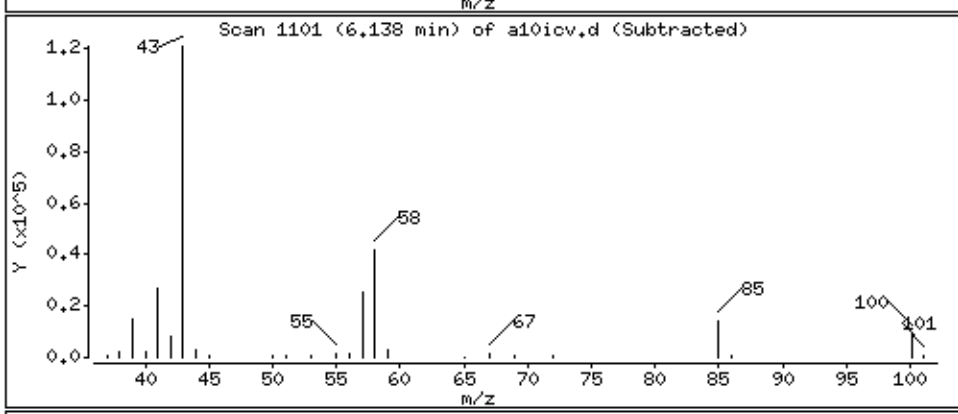
Sample Info: 8260-ICV,140022:0

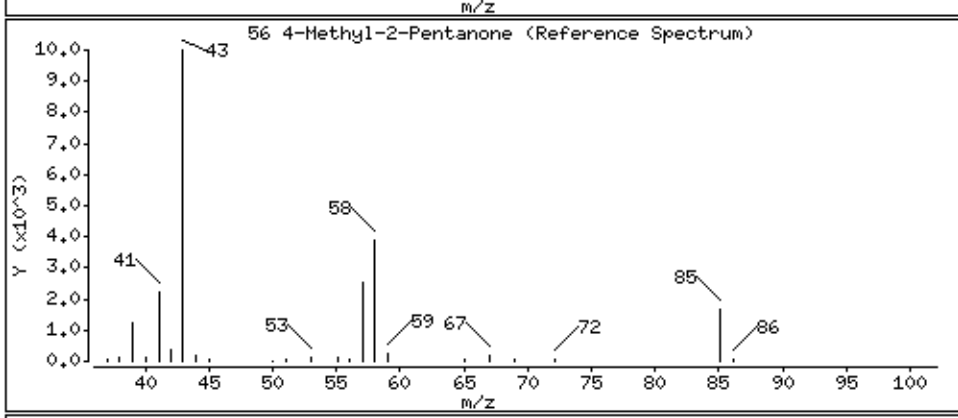
Purge Volume: 5.0 | Operator: TMW

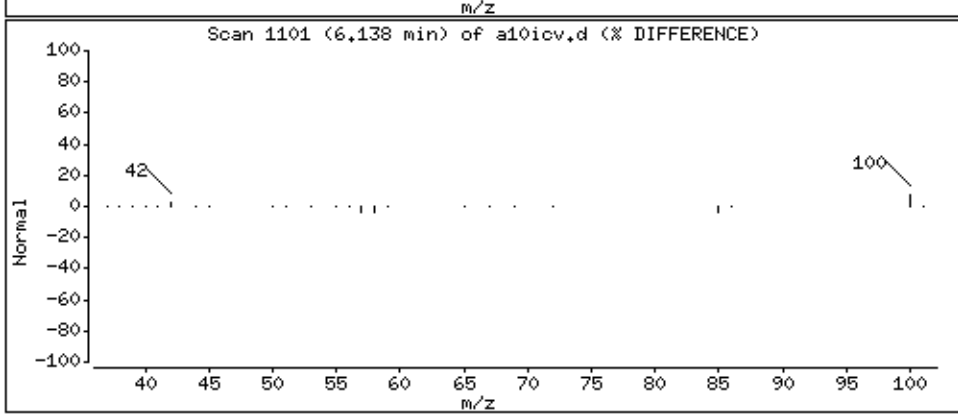
Column phase: DB-624 | Column diameter: 0.18

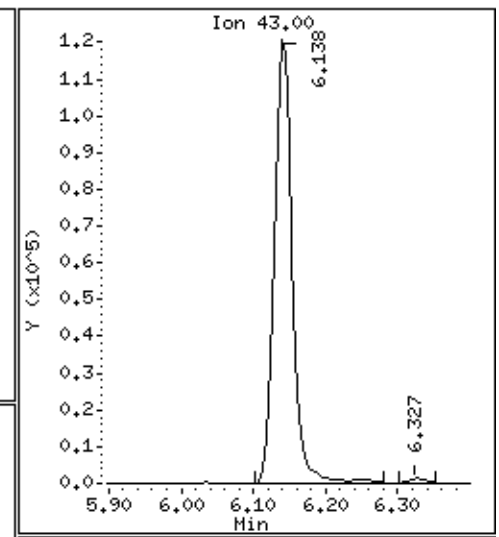
56 4-Methyl-2-Pentanone | Concentration: 264 ppb

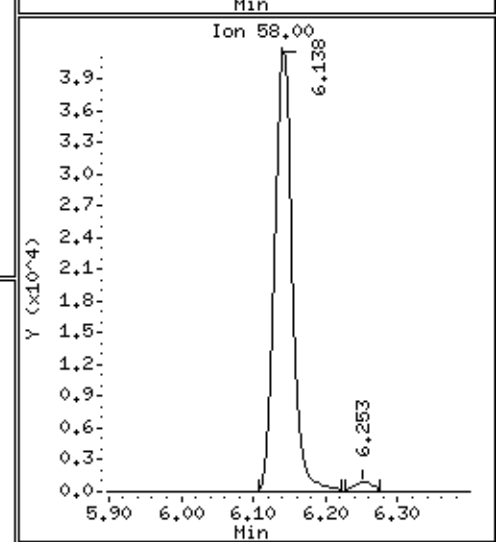


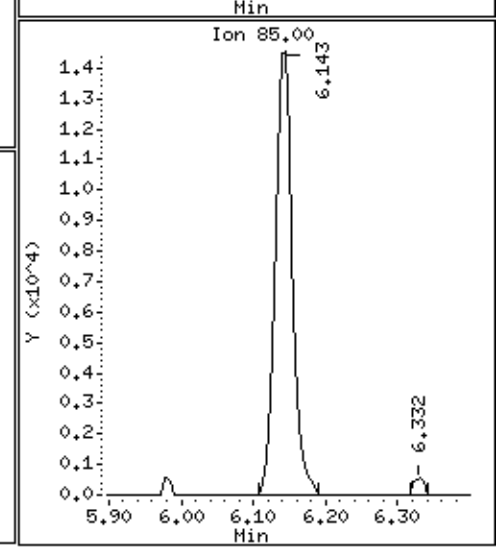












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

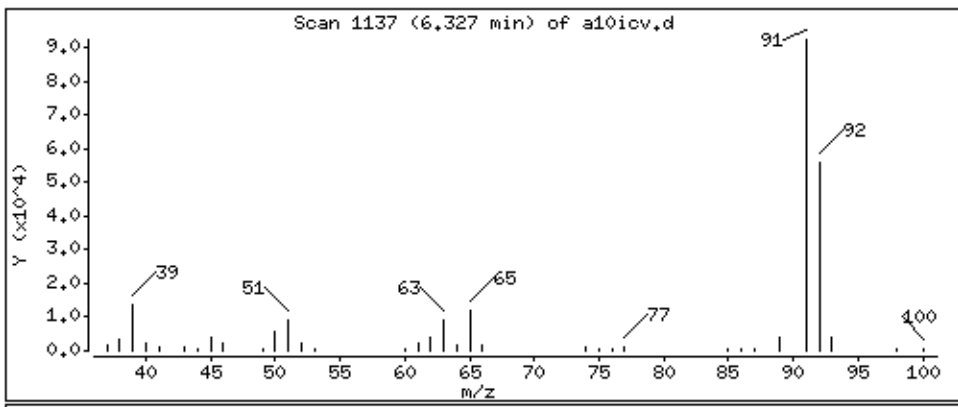
Client ID: 8260-ICV | Instrument: 50mv5a.i

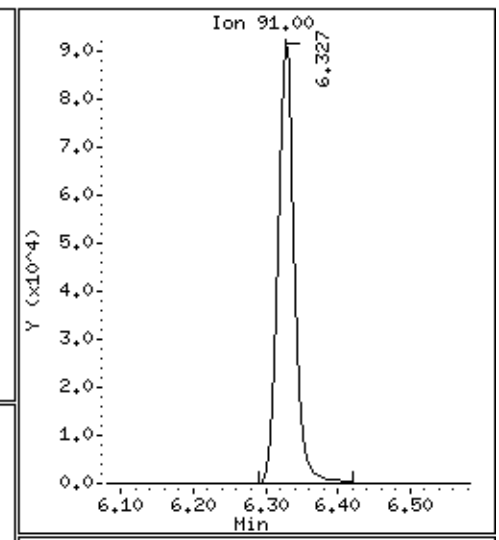
Sample Info: 8260-ICV,140022:0

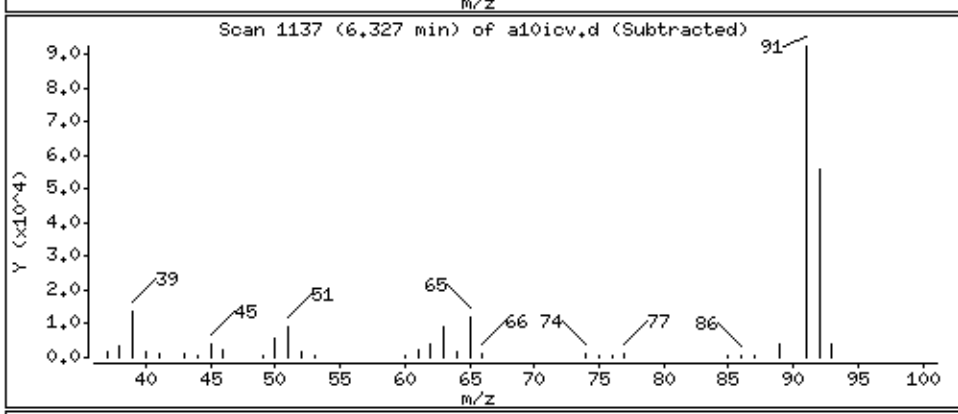
Purge Volume: 5.0 | Operator: TMW

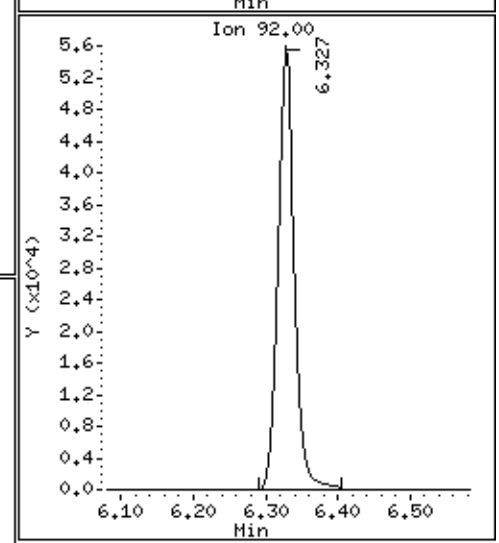
Column phase: DB-624 | Column diameter: 0.18

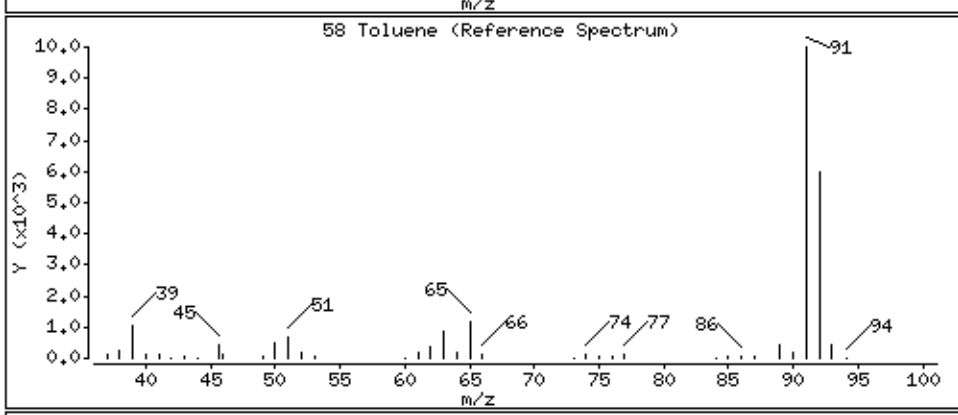
58 Toluene | Concentration: 46.5 ppb

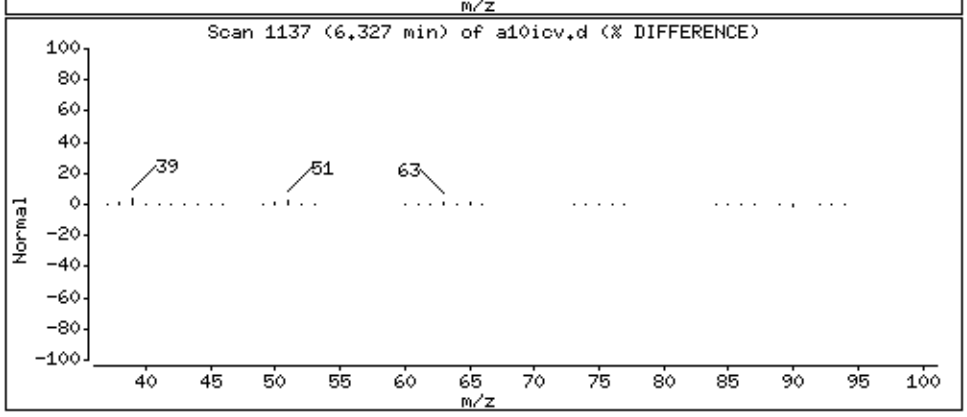












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

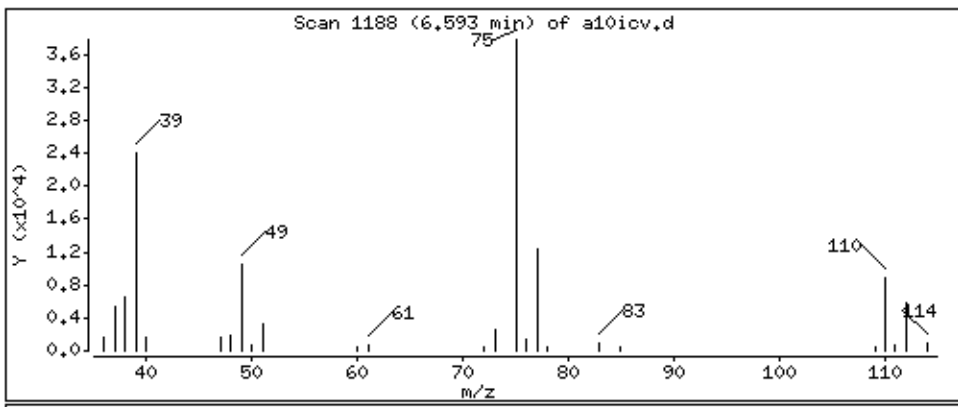
Client ID: 8260-ICV | Instrument: 50mv5a.i

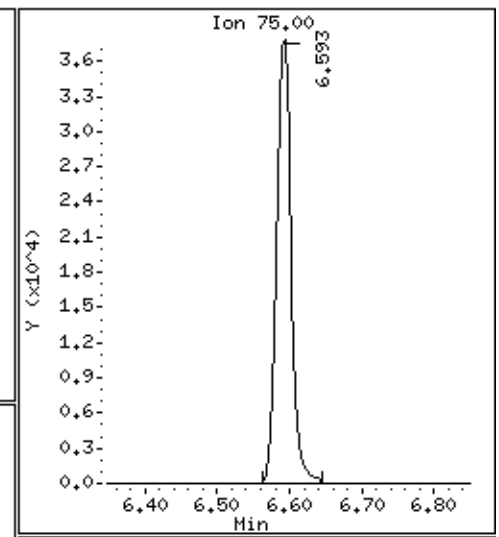
Sample Info: 8260-ICV,140022:0

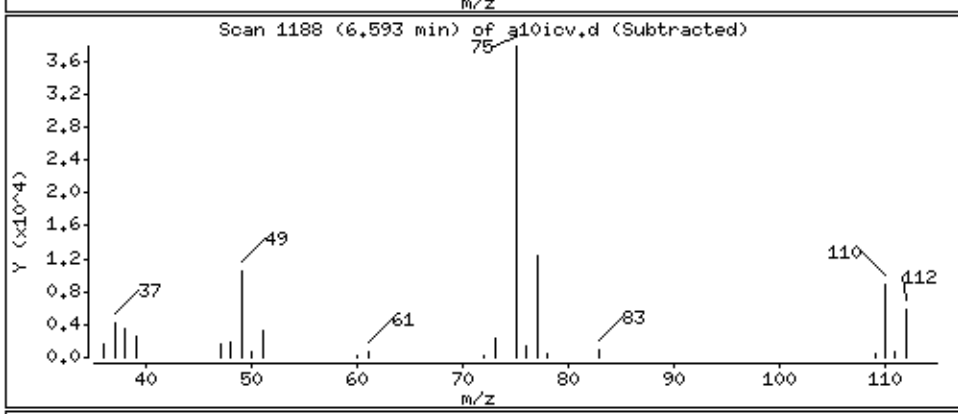
Purge Volume: 5.0 | Operator: TMW

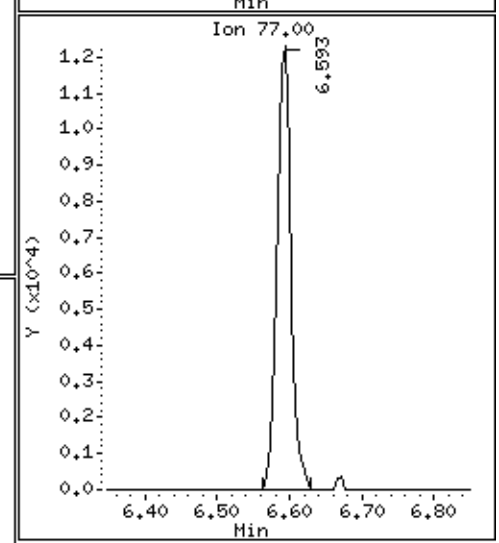
Column phase: DB-624 | Column diameter: 0.18

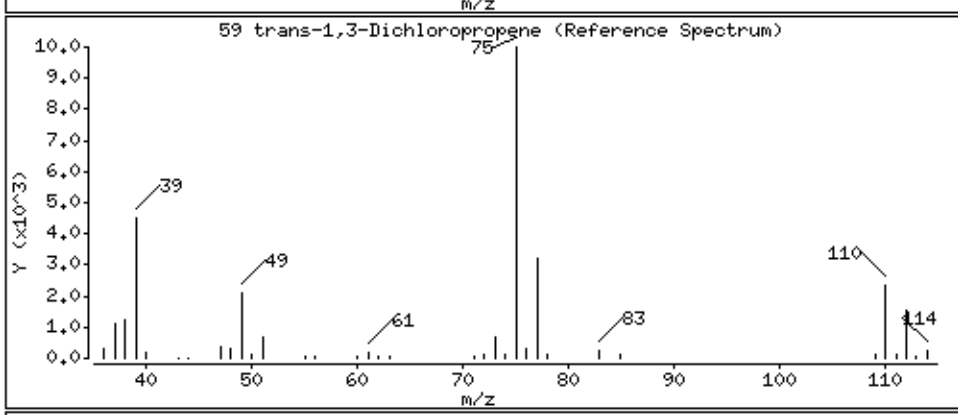
59 trans-1,3-Dichloropropene | Concentration: 52.6 ppb

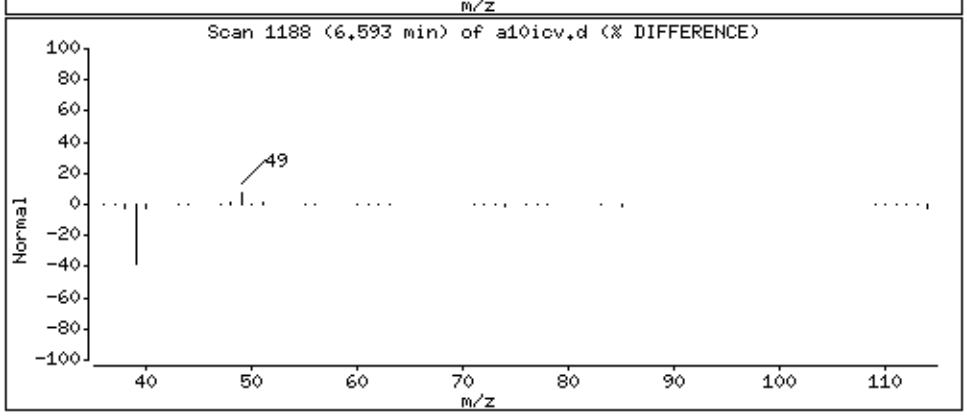












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

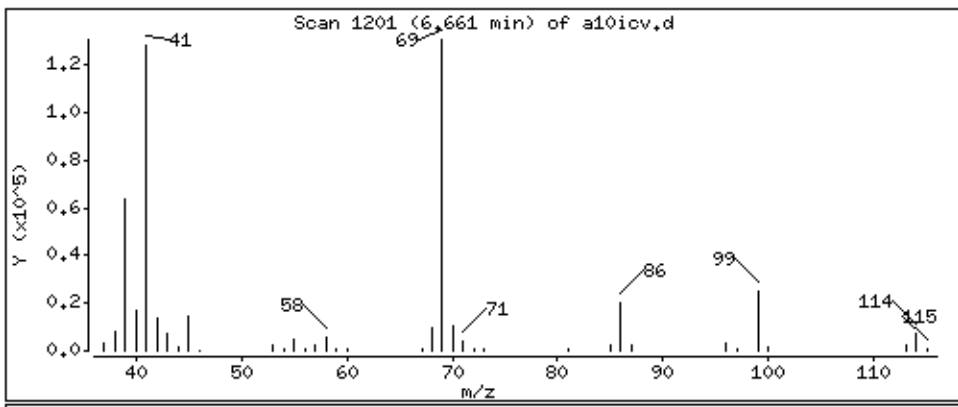
Client ID: 8260-ICV | Instrument: 50mv5a.i

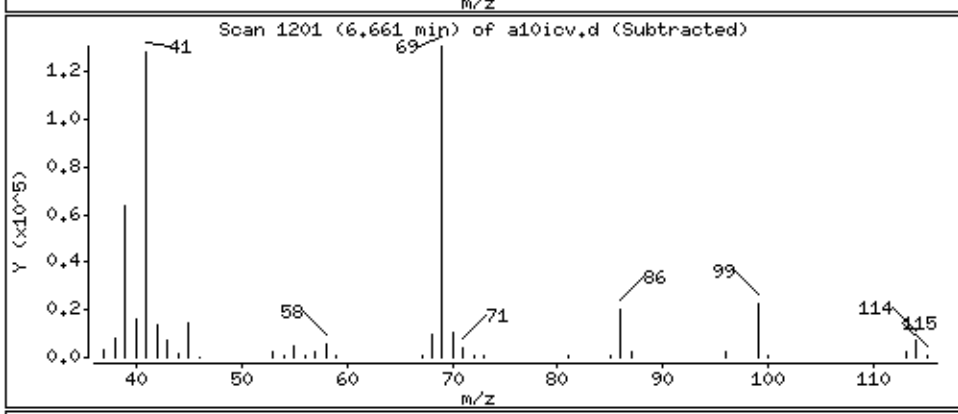
Sample Info: 8260-ICV,140022:0

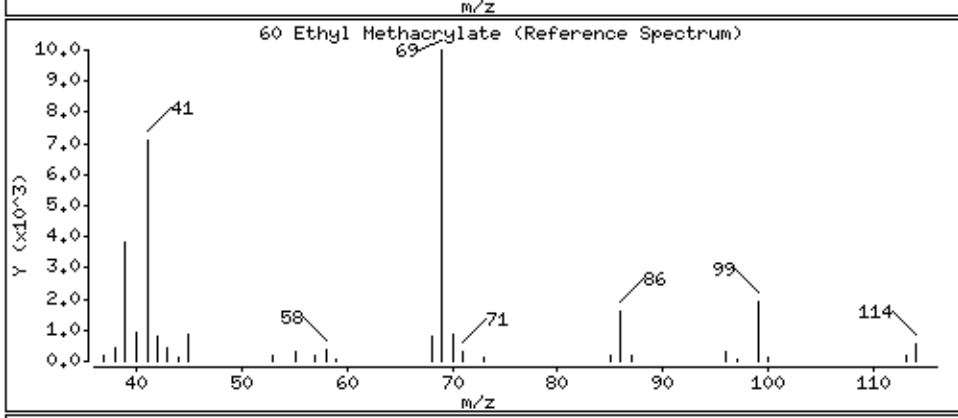
Purge Volume: 5.0 | Operator: TMW

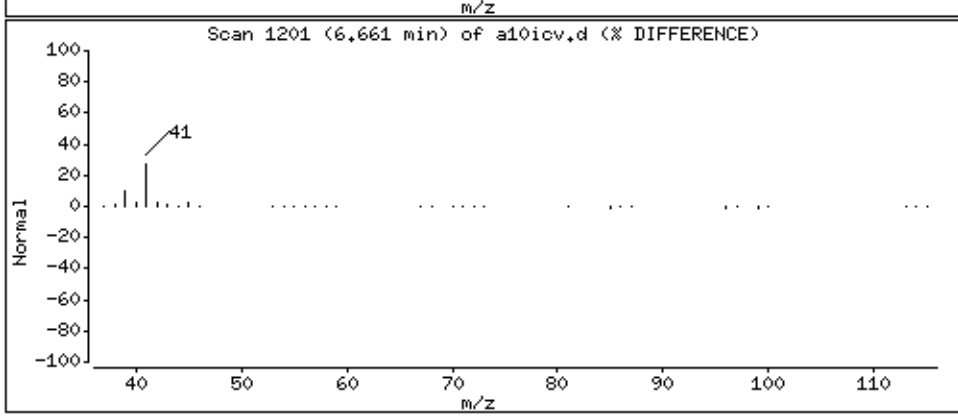
Column phase: DB-624 | Column diameter: 0.18

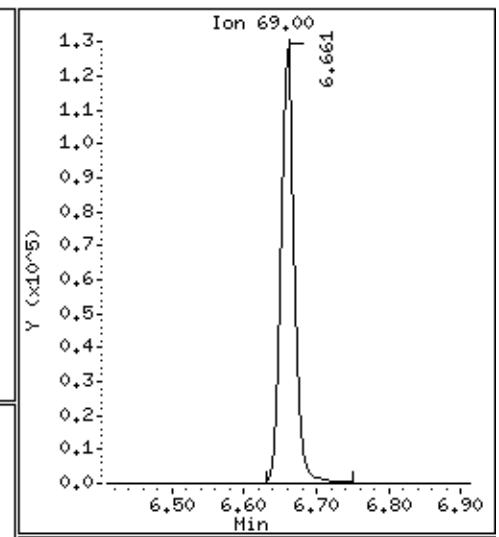
60 Ethyl Methacrylate | Concentration: 212 ppb

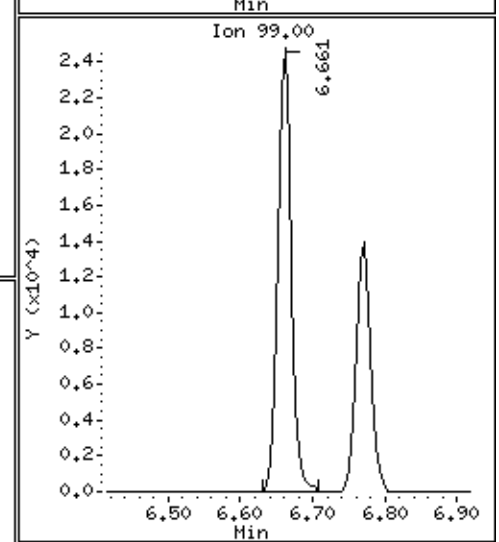


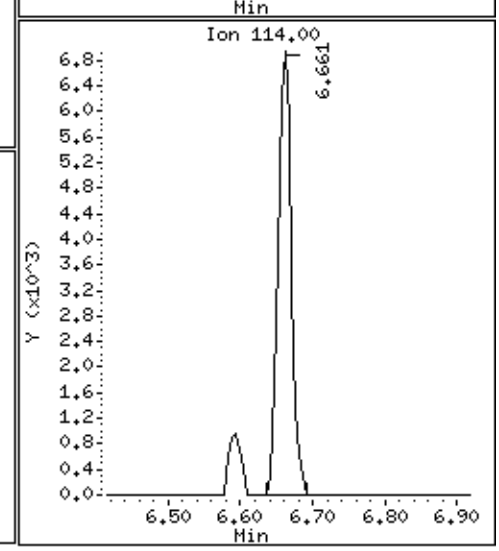












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

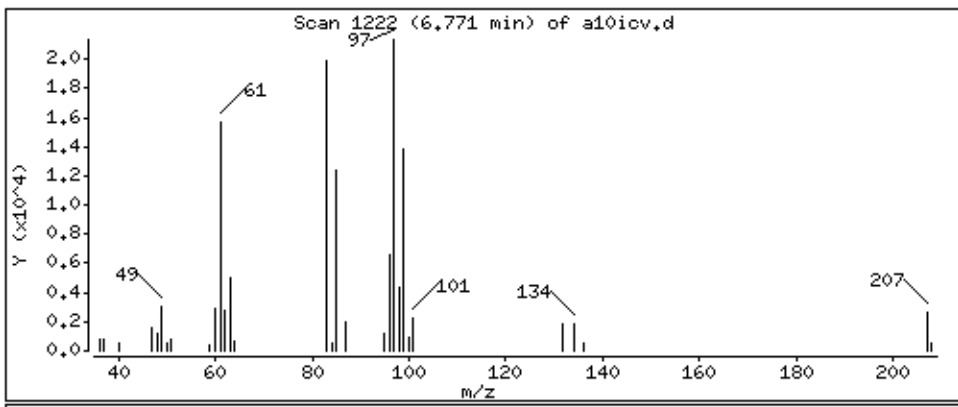
Client ID: 8260-ICV | Instrument: 50mv5a.i

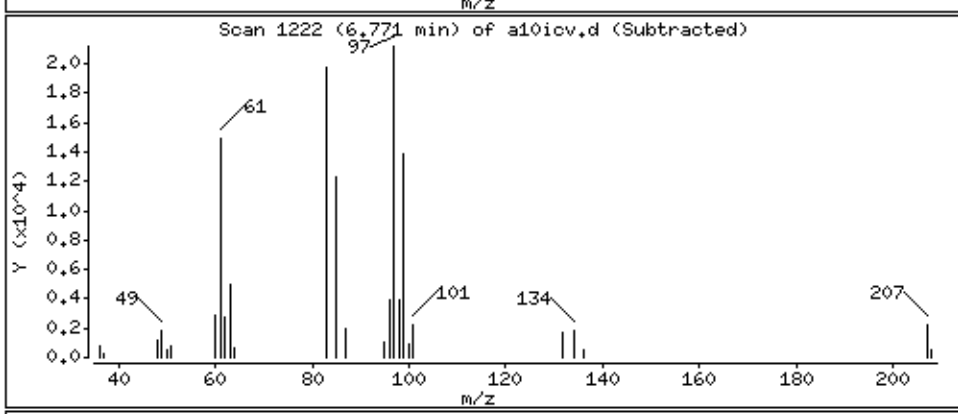
Sample Info: 8260-ICV,140022:0

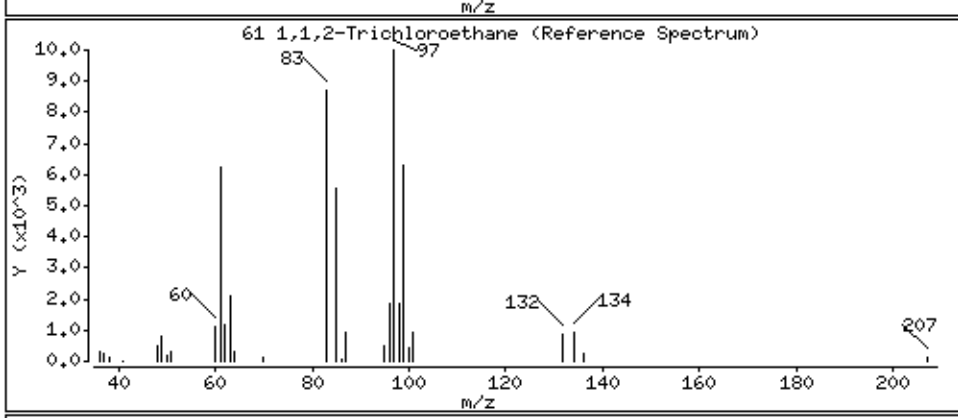
Purge Volume: 5.0 | Operator: TMW

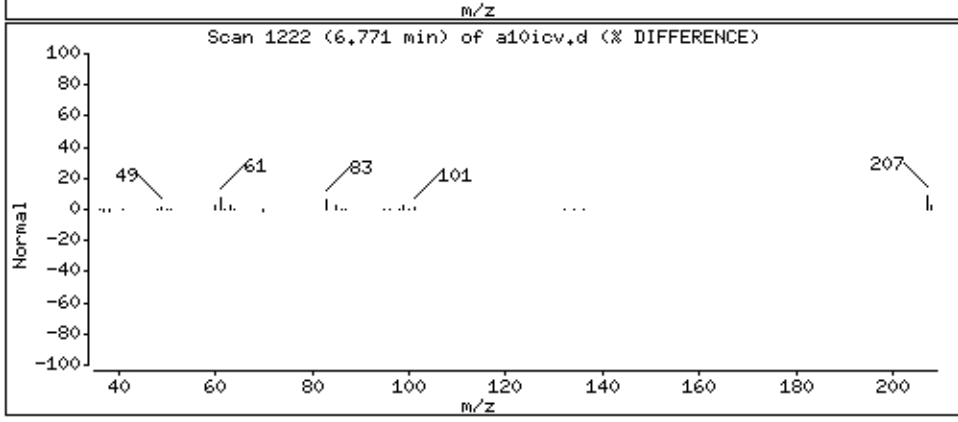
Column phase: DB-624 | Column diameter: 0.18

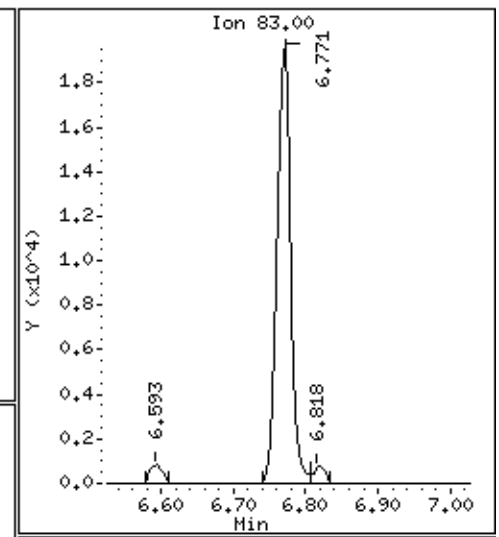
61 1,1,2-Trichloroethane | Concentration: 50.6 ppb

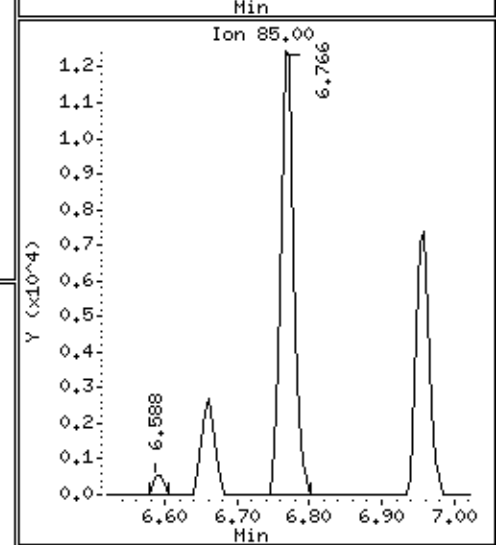


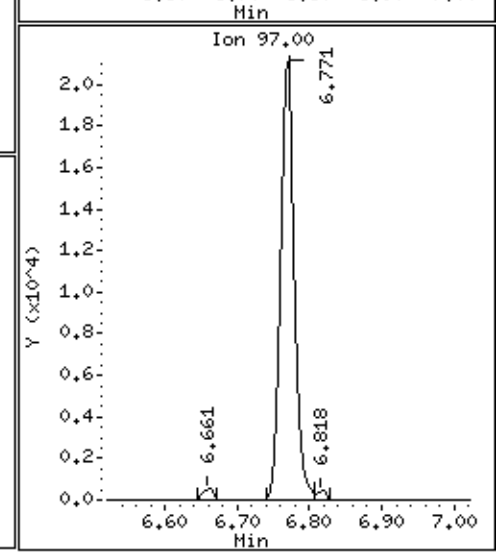












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

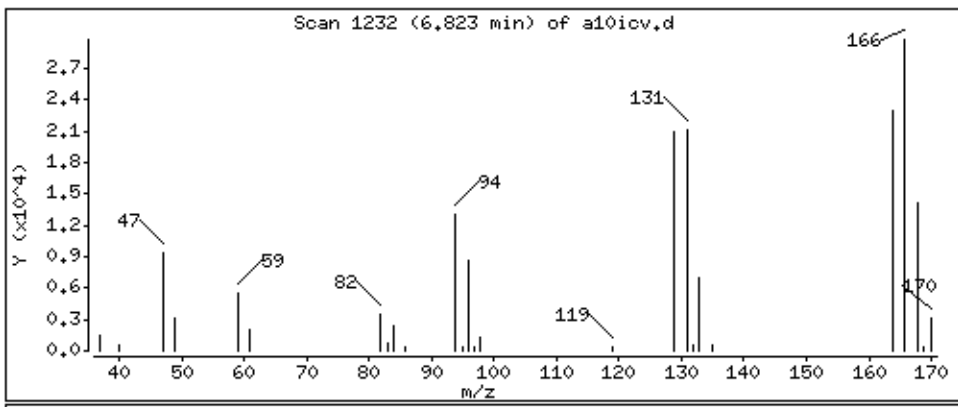
Client ID: 8260-ICV | Instrument: 50mv5a.i

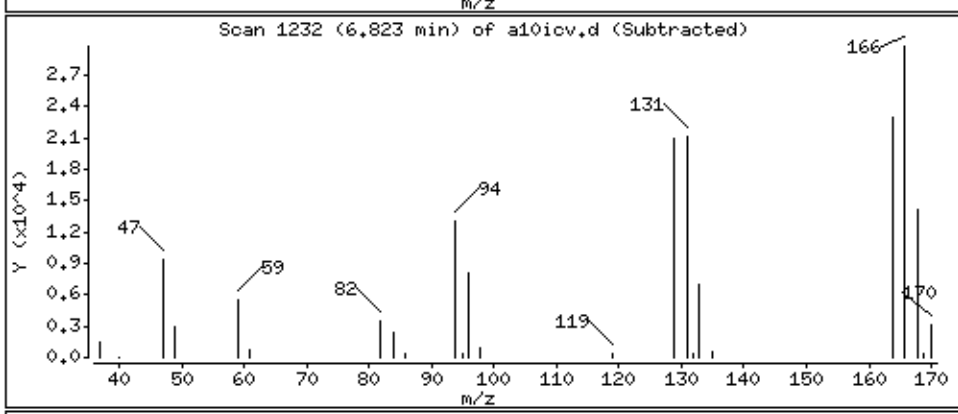
Sample Info: 8260-ICV,140022:0

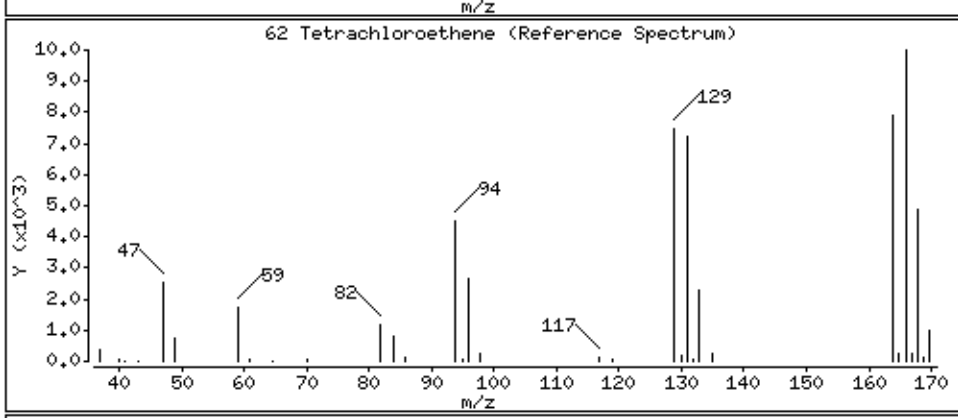
Purge Volume: 5.0 | Operator: TMW

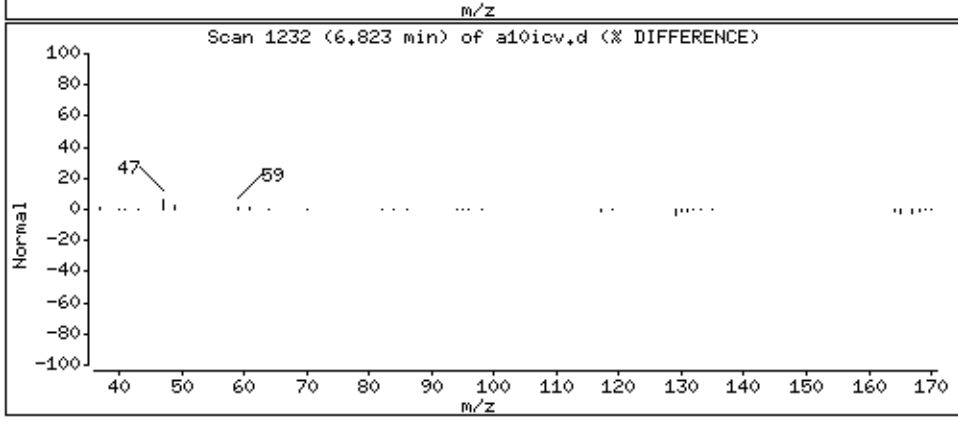
Column phase: DB-624 | Column diameter: 0.18

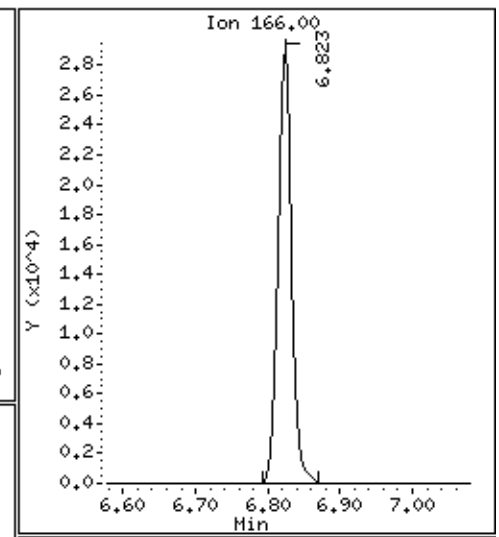
62 Tetrachloroethene | Concentration: 45.4 ppb

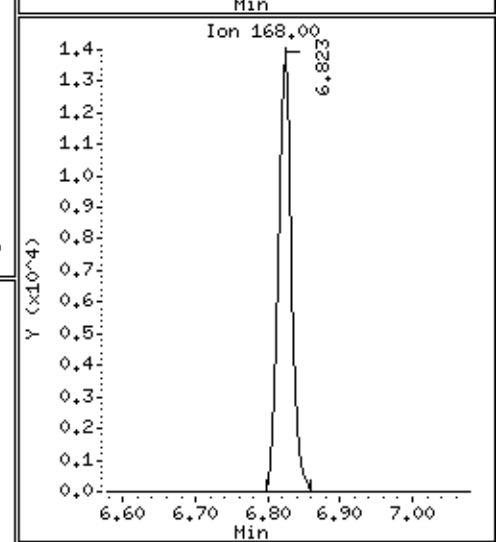


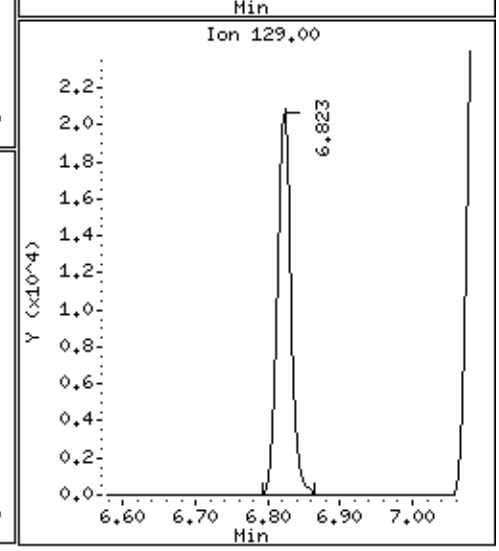












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

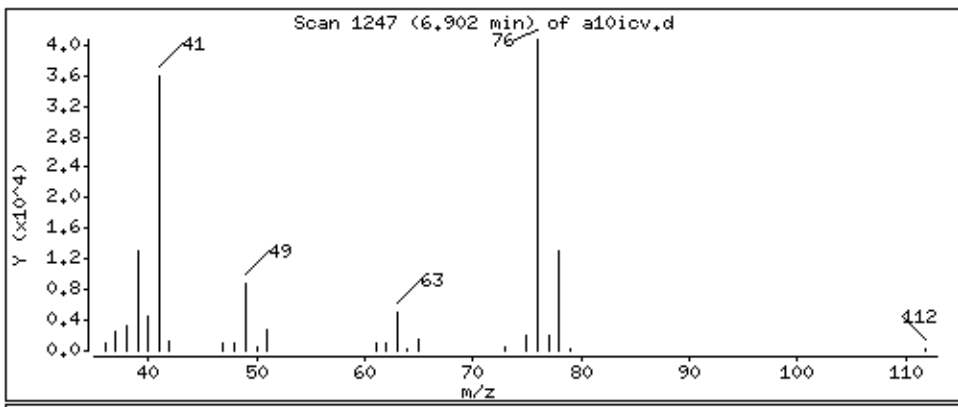
Client ID: 8260-ICV | Instrument: 50mv5a.i

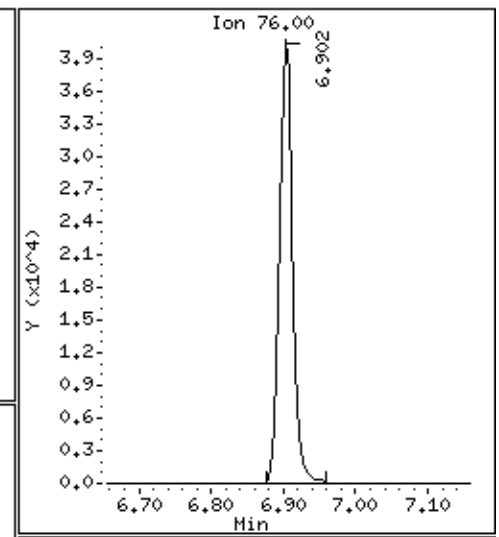
Sample Info: 8260-ICV,140022:0

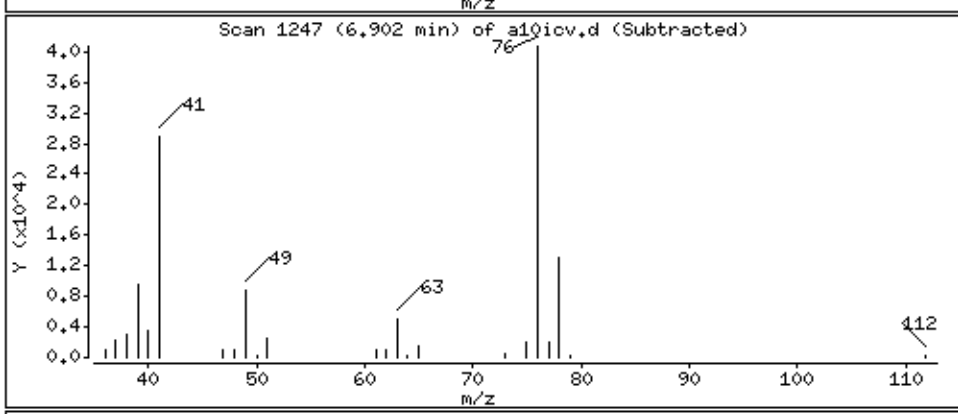
Purge Volume: 5.0 | Operator: TMW

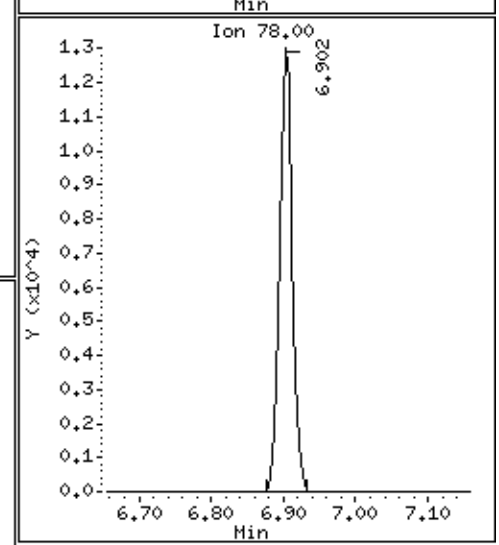
Column phase: DB-624 | Column diameter: 0.18

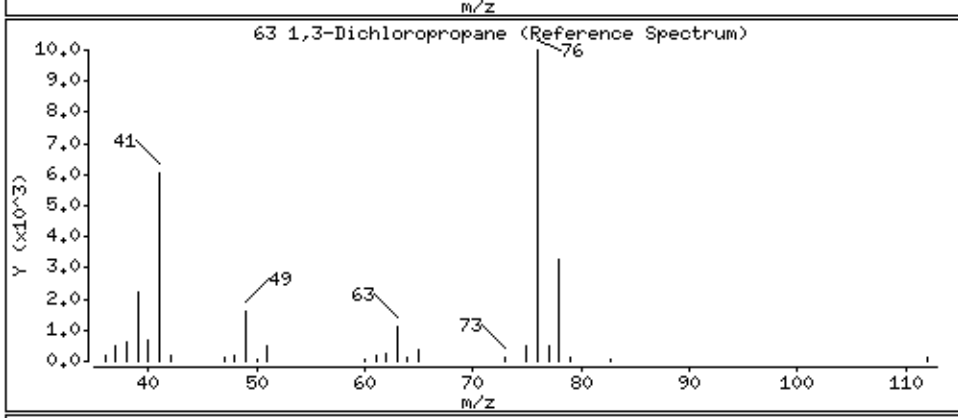
63 1,3-Dichloropropane | Concentration: 50.1 ppb

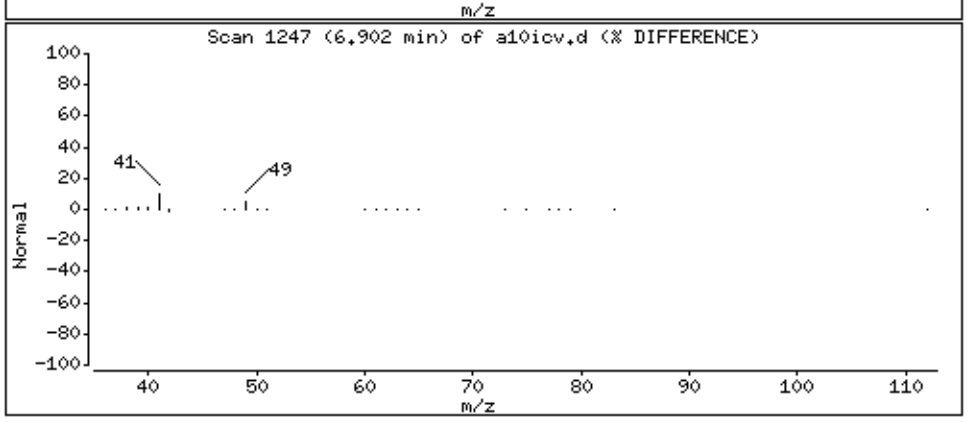












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

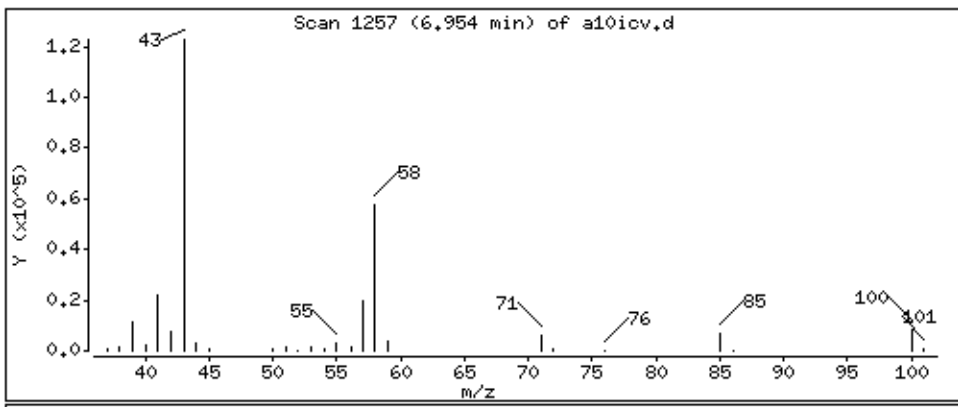
Client ID: 8260-ICV | Instrument: 50mv5a.i

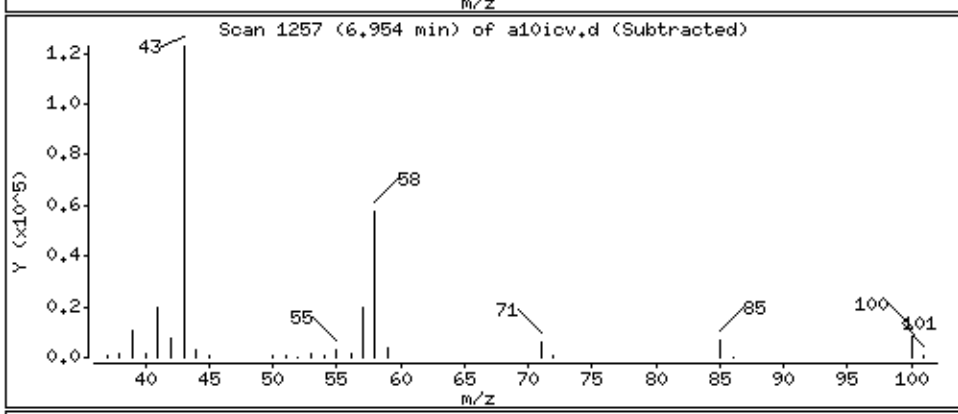
Sample Info: 8260-ICV,140022:0

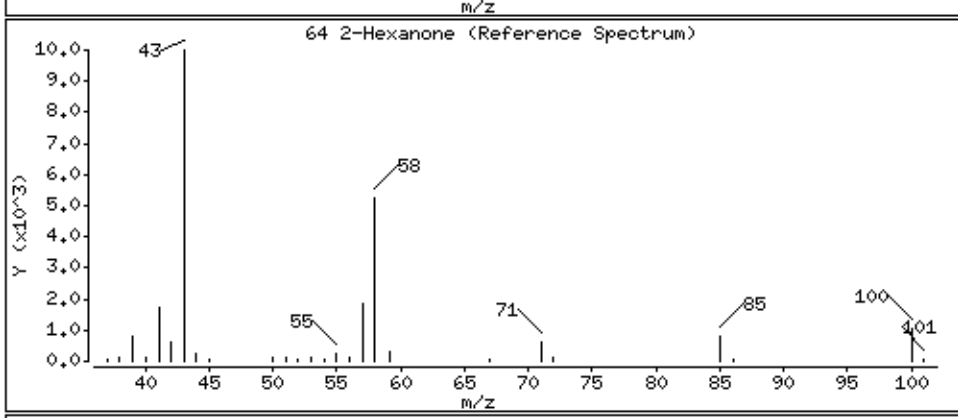
Purge Volume: 5.0 | Operator: TMW

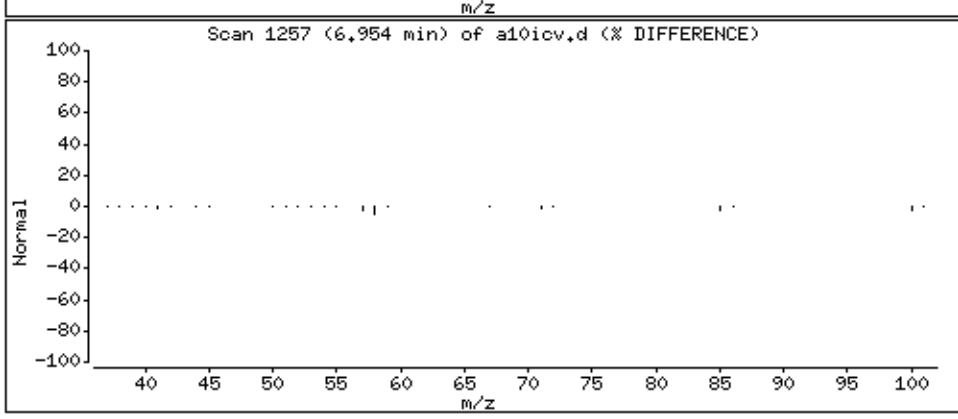
Column phase: DB-624 | Column diameter: 0.18

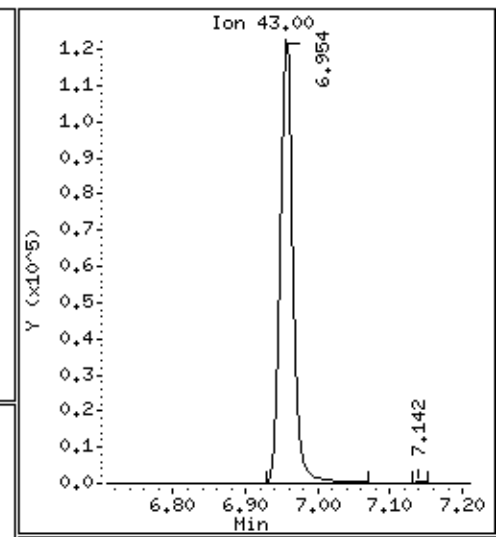
64 2-Hexanone | Concentration: 271 ppb

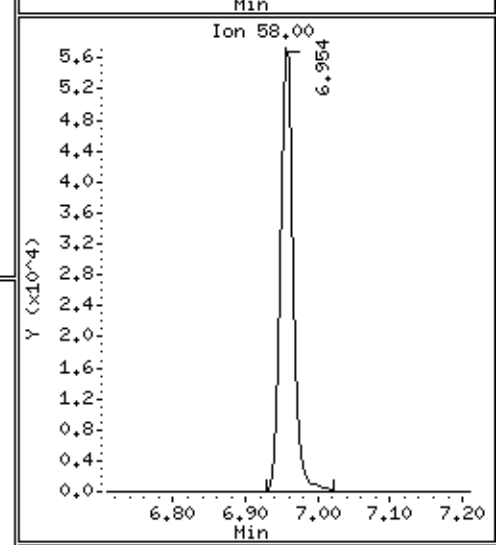


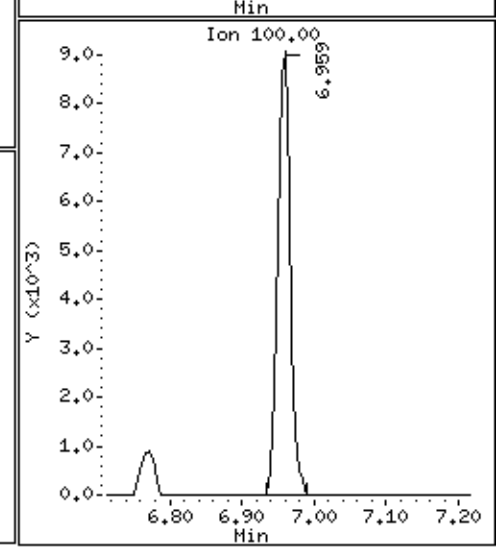












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

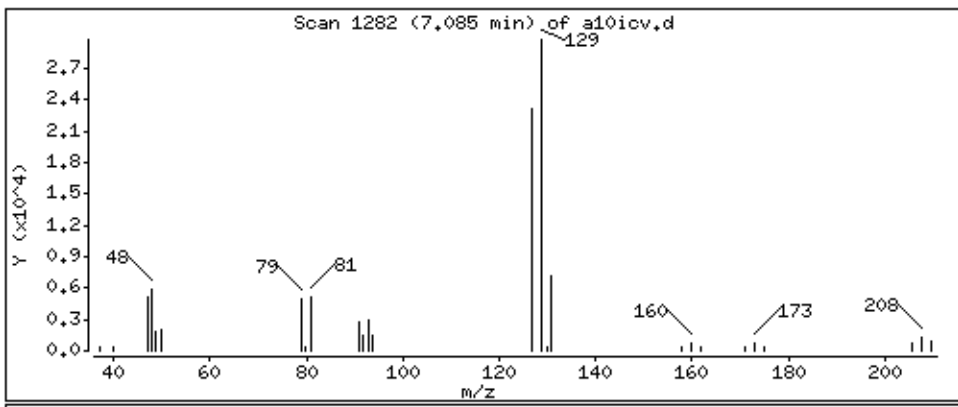
Client ID: 8260-ICV | Instrument: 50mv5a.i

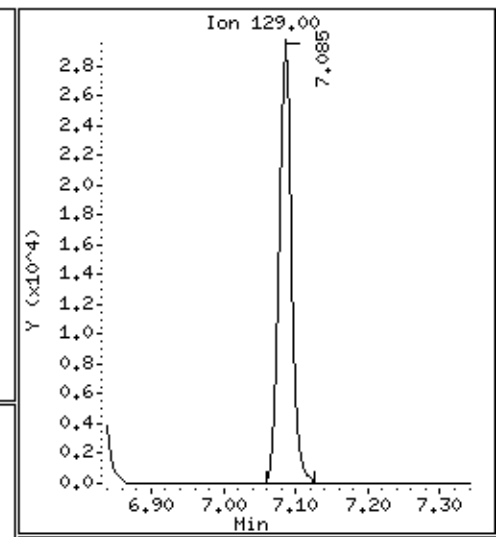
Sample Info: 8260-ICV,140022:0

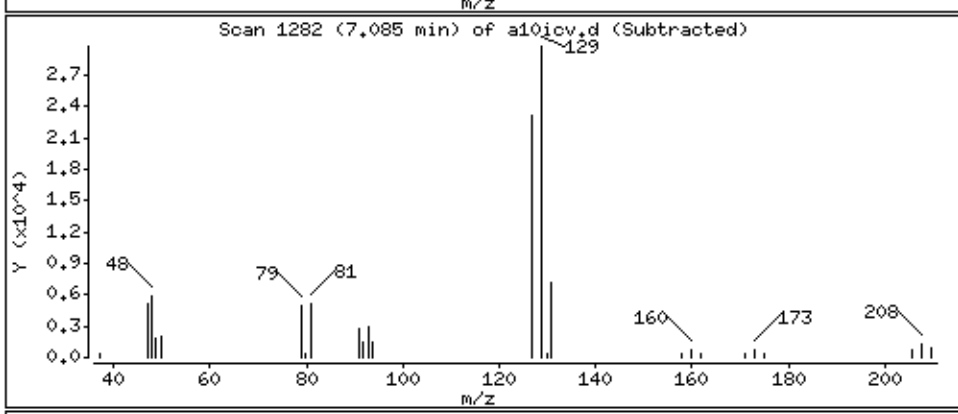
Purge Volume: 5.0 | Operator: TMW

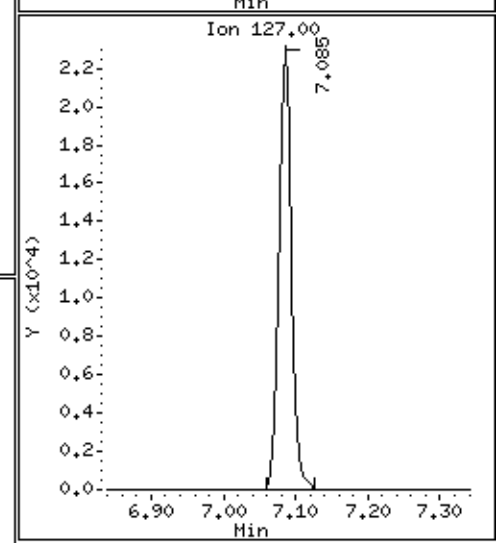
Column phase: DB-624 | Column diameter: 0.18

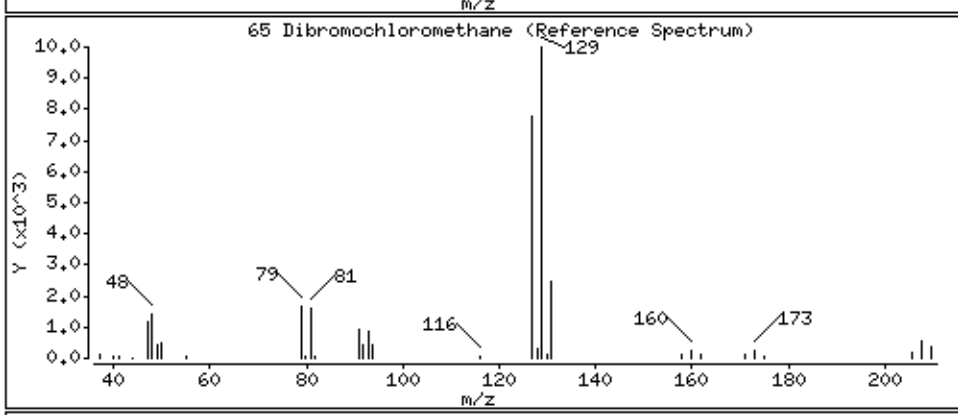
65 Dibromochloromethane | Concentration: 48.5 ppb

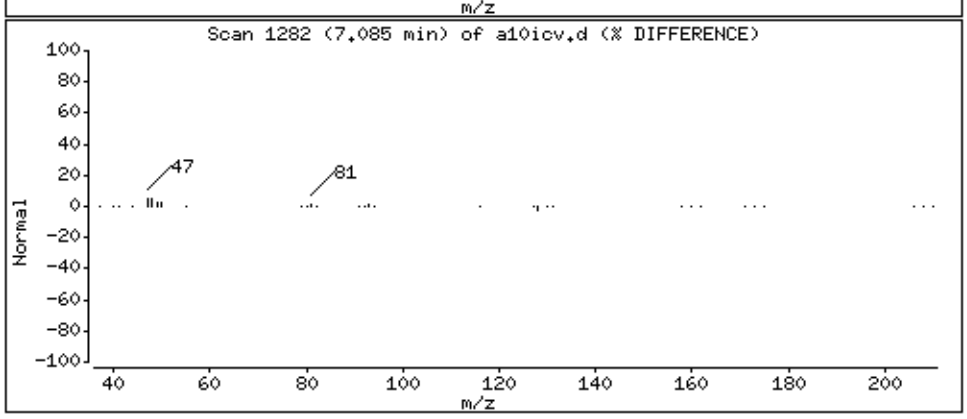












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

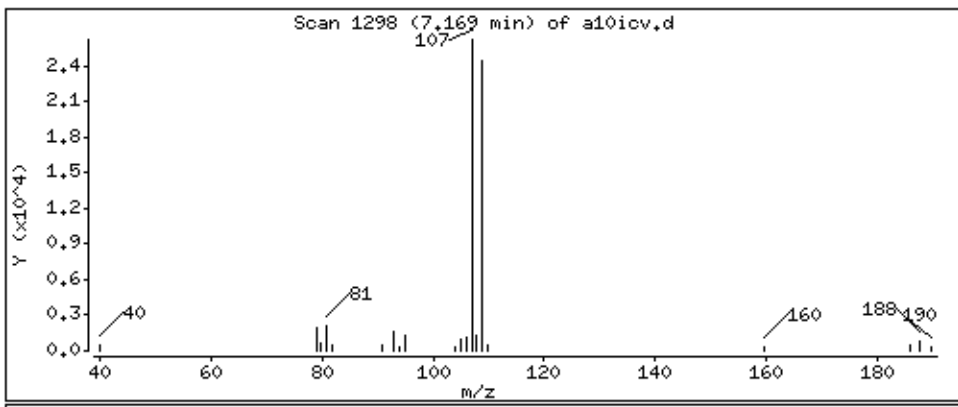
Client ID: 8260-ICV | Instrument: 50mv5a.i

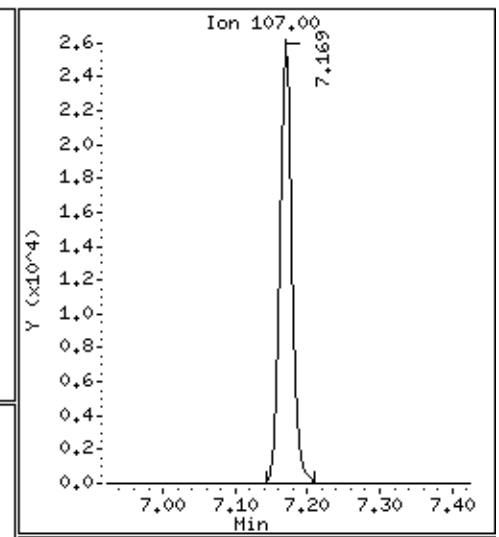
Sample Info: 8260-ICV,140022:0

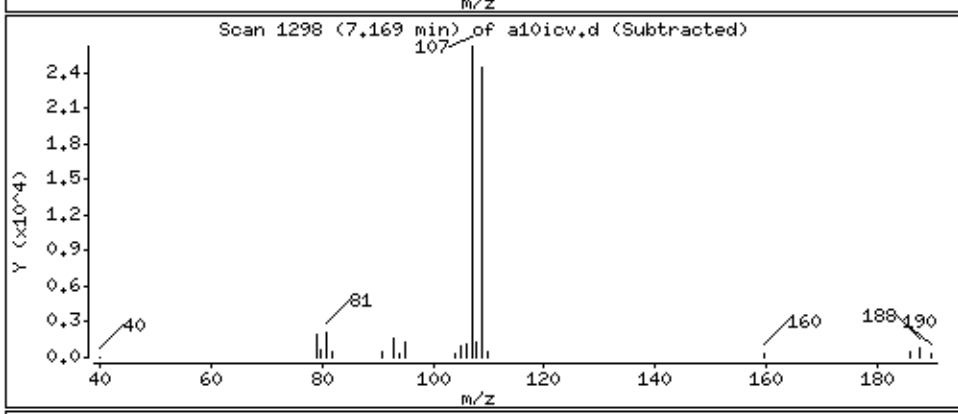
Purge Volume: 5.0 | Operator: TMW

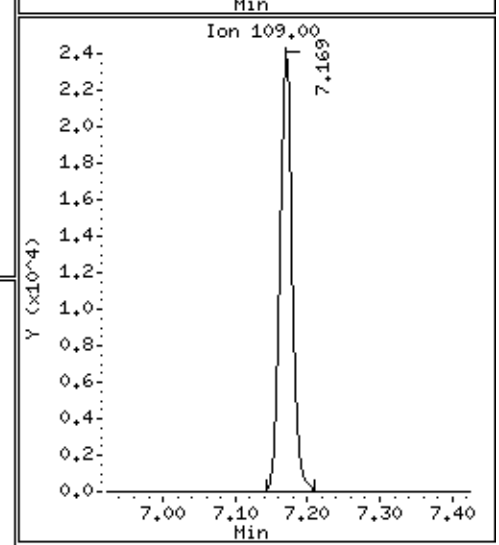
Column phase: DB-624 | Column diameter: 0.18

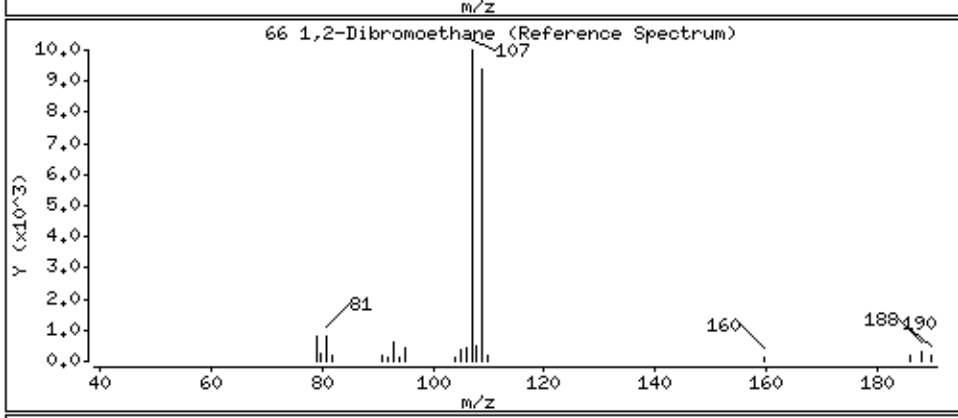
66 1,2-Dibromoethane | Concentration: 49.5 ppb

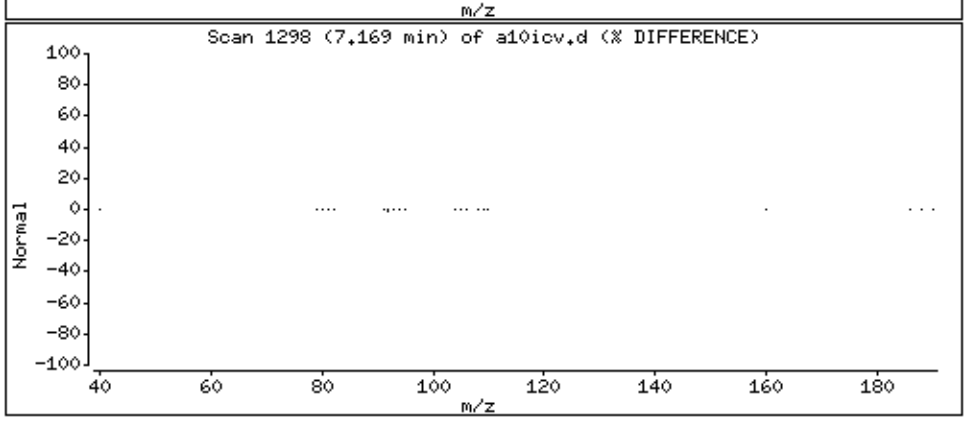












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

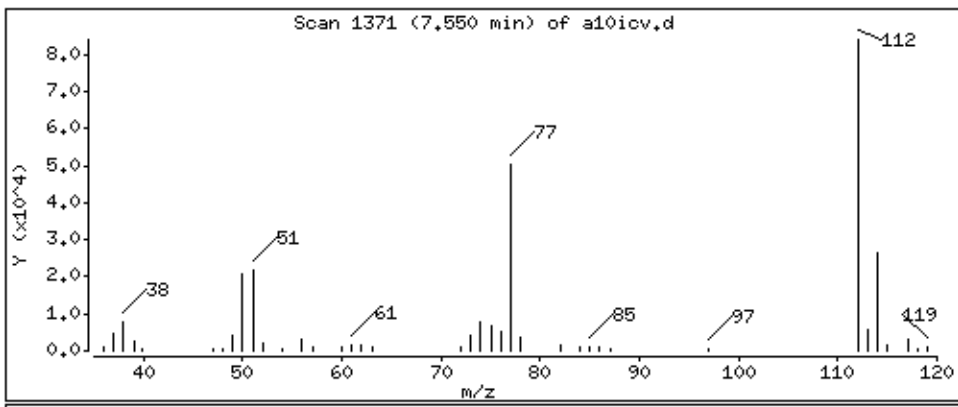
Client ID: 8260-ICV | Instrument: 50mv5a.i

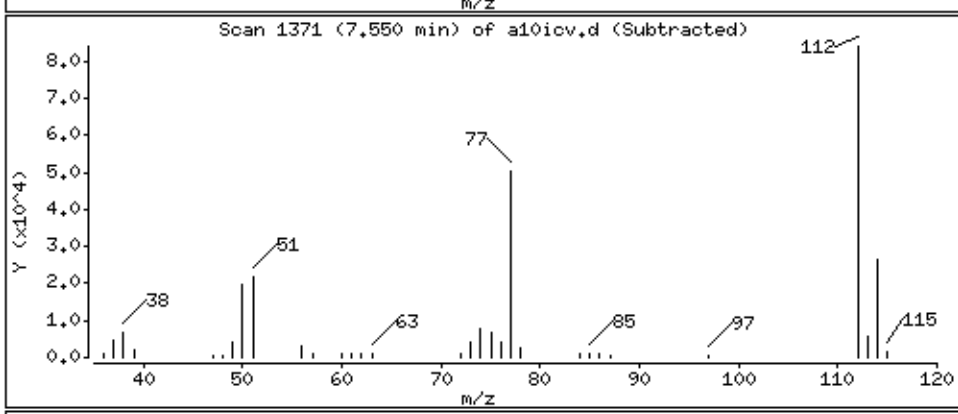
Sample Info: 8260-ICV,140022:0

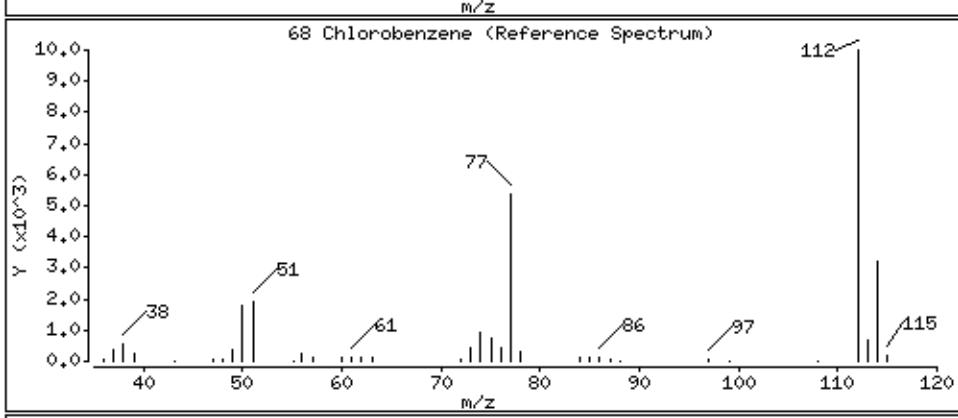
Purge Volume: 5.0 | Operator: TMW

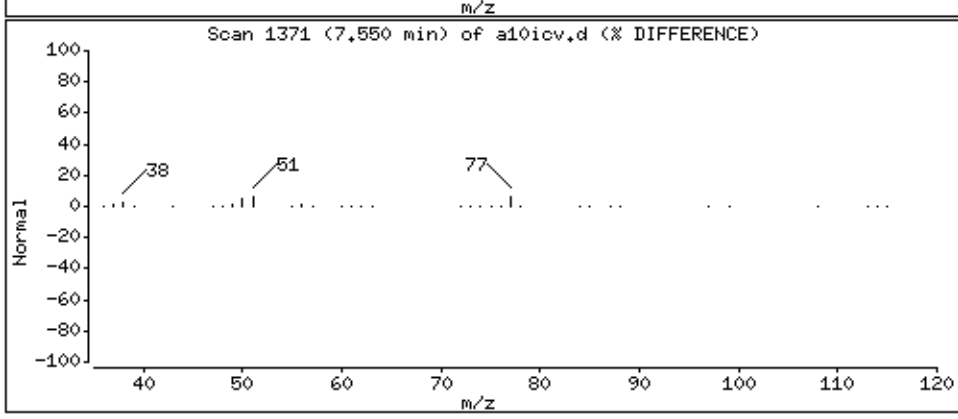
Column phase: DB-624 | Column diameter: 0.18

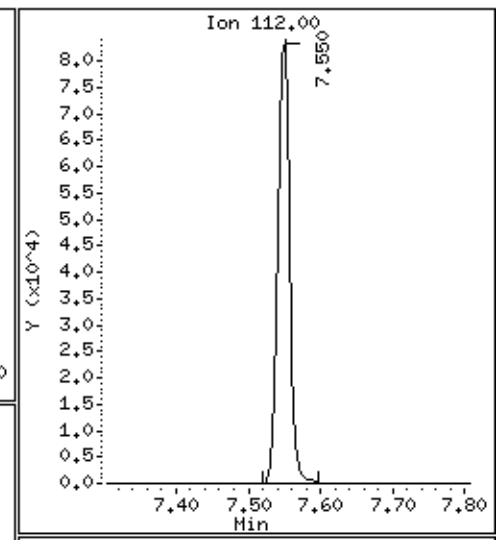
68 Chlorobenzene | Concentration: 44.7 ppb

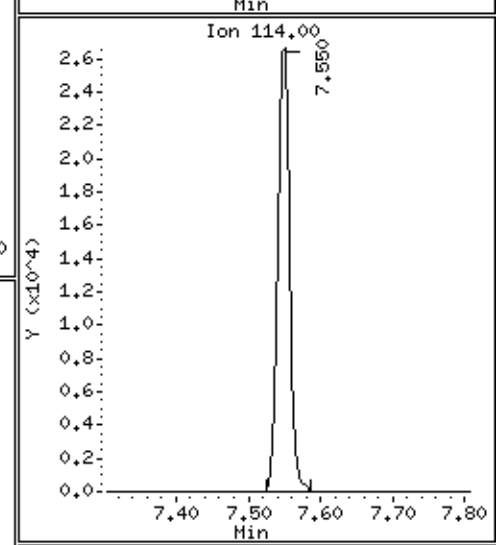


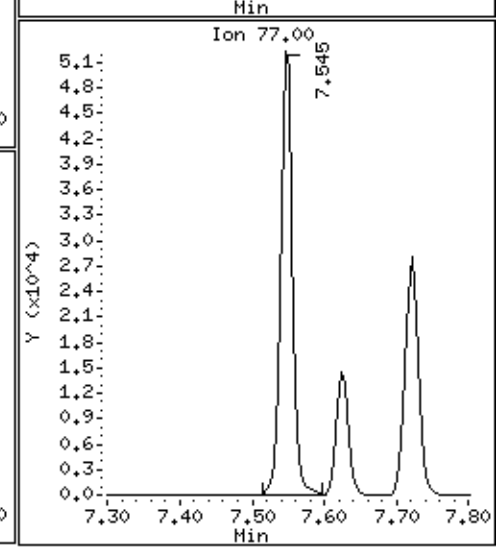












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

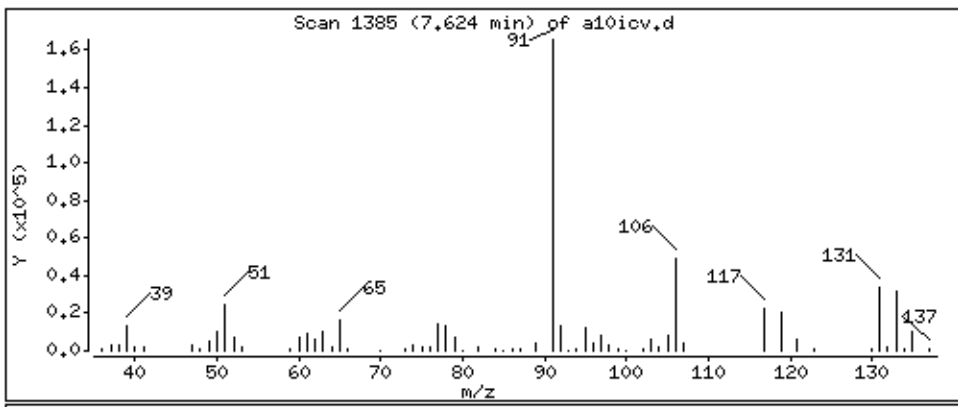
Client ID: 8260-ICV | Instrument: 50mv5a.i

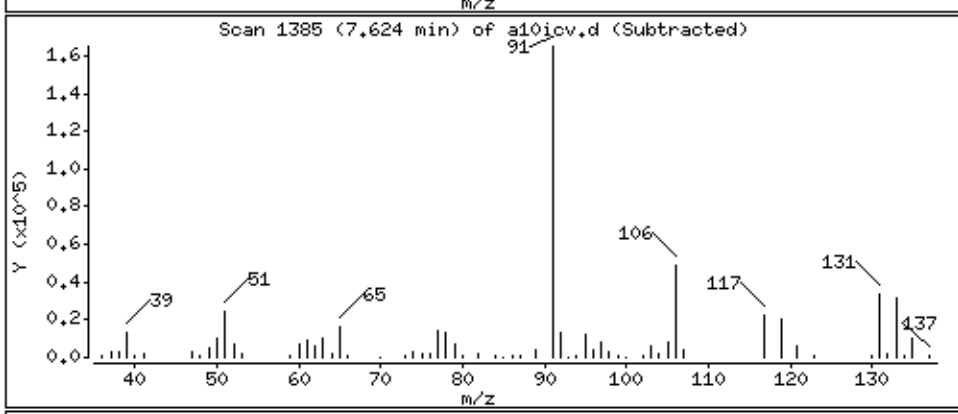
Sample Info: 8260-ICV,140022:0

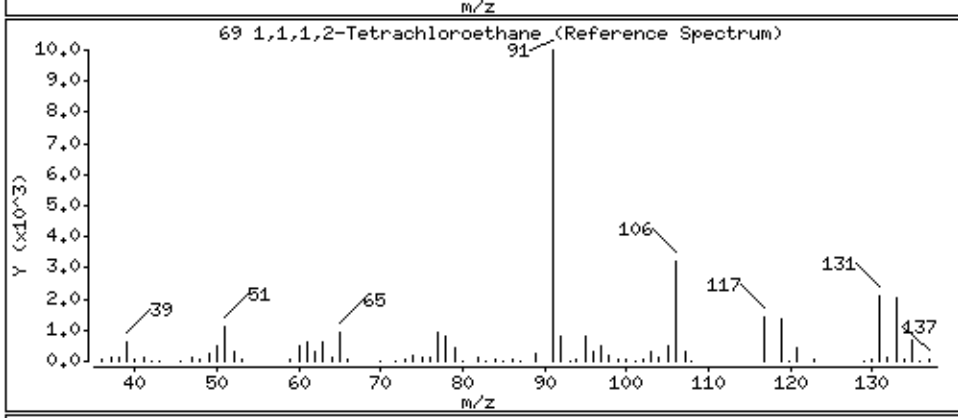
Purge Volume: 5.0 | Operator: TMW

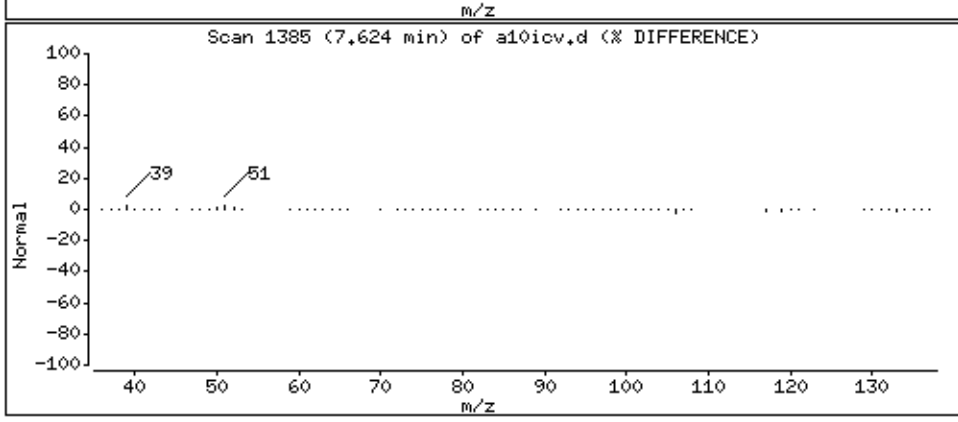
Column phase: DB-624 | Column diameter: 0.18

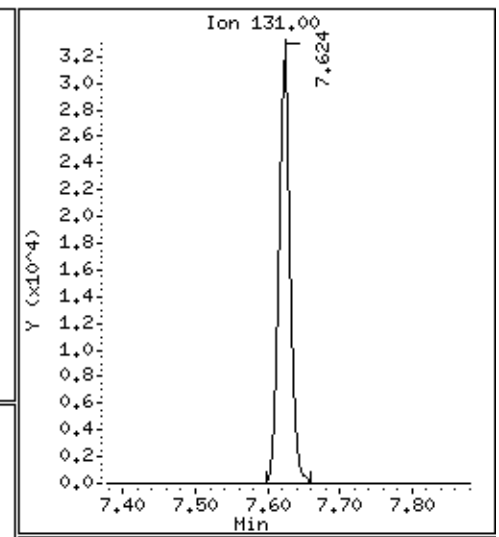
69 1,1,1,2-Tetrachloroethane | Concentration: 47.1 ppb

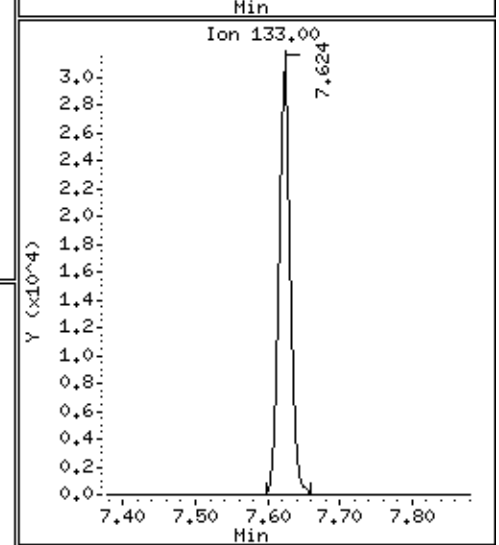


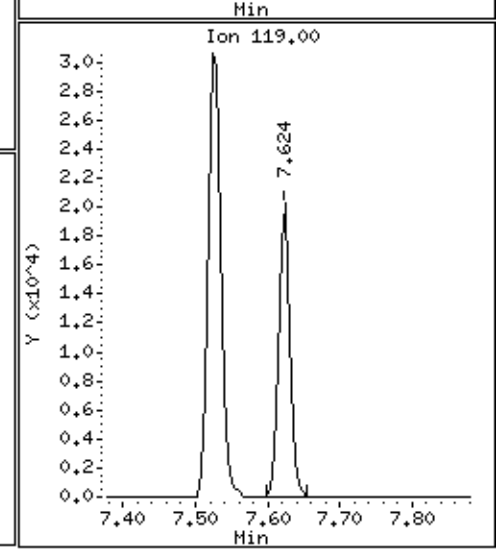












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

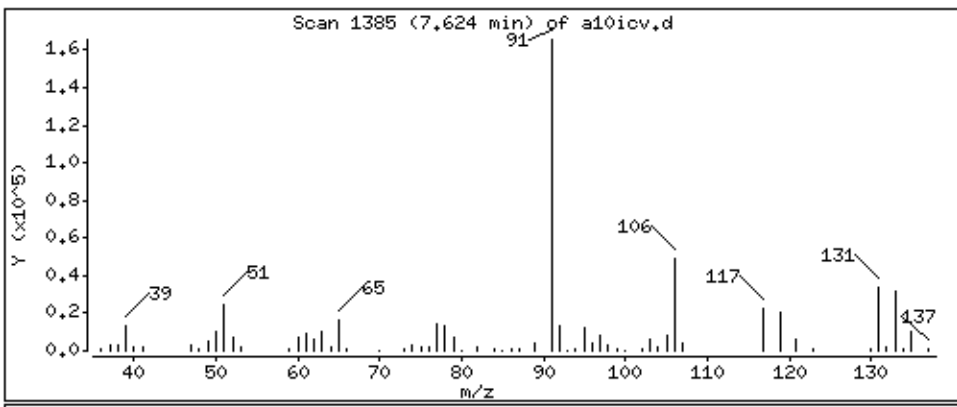
Client ID: 8260-ICV | Instrument: 50mv5a.i

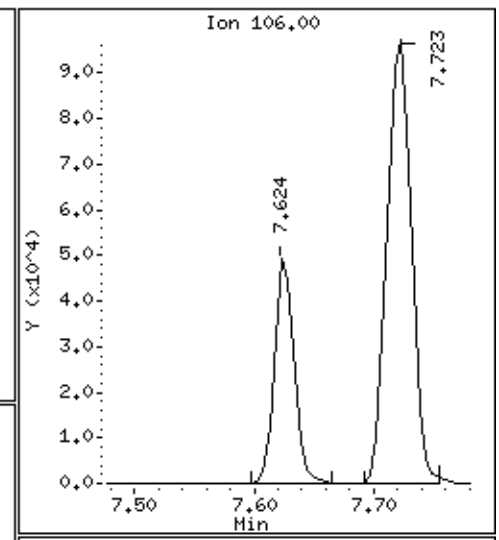
Sample Info: 8260-ICV,140022:0

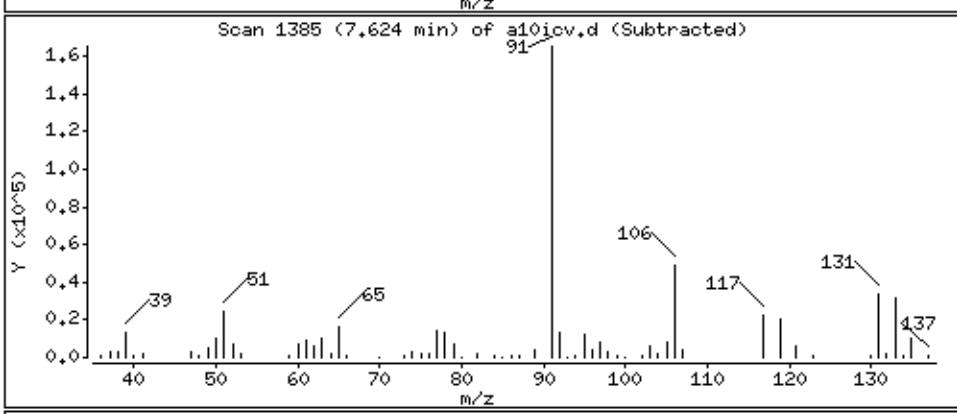
Purge Volume: 5.0 | Operator: TMW

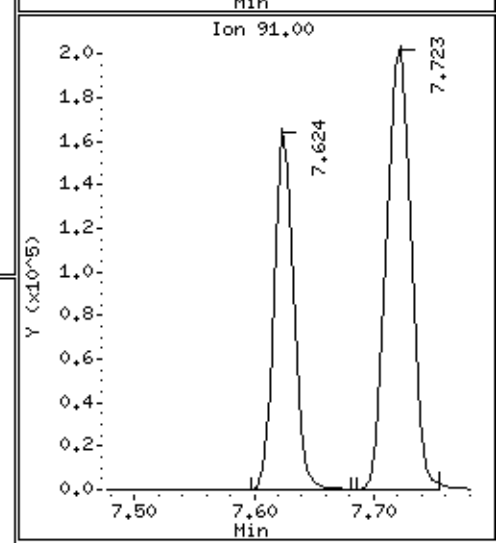
Column phase: DB-624 | Column diameter: 0.18

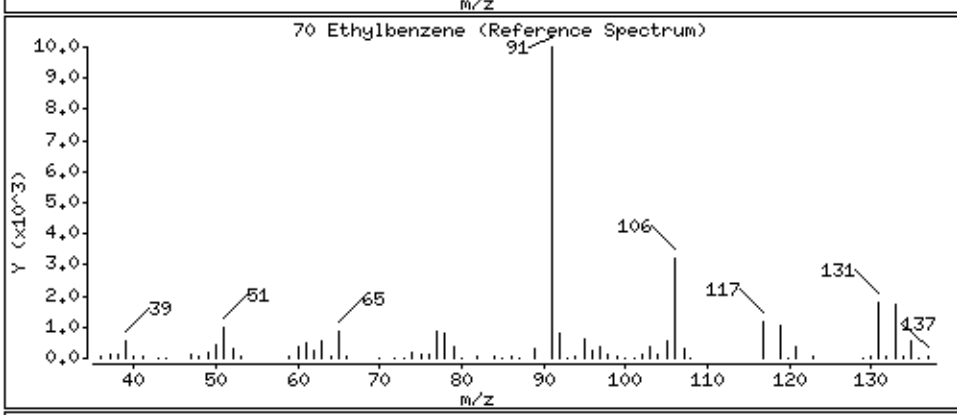
70 Ethylbenzene | Concentration: 44.5 ppb

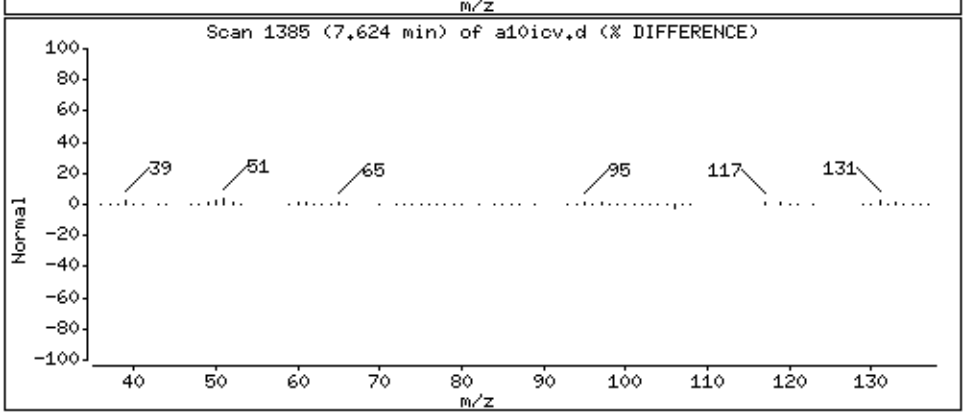












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

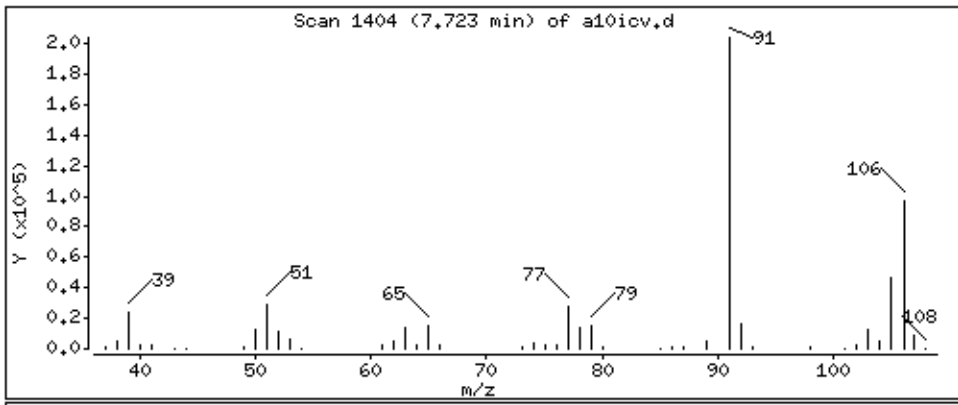
Client ID: 8260-ICV | Instrument: 50mv5a.i

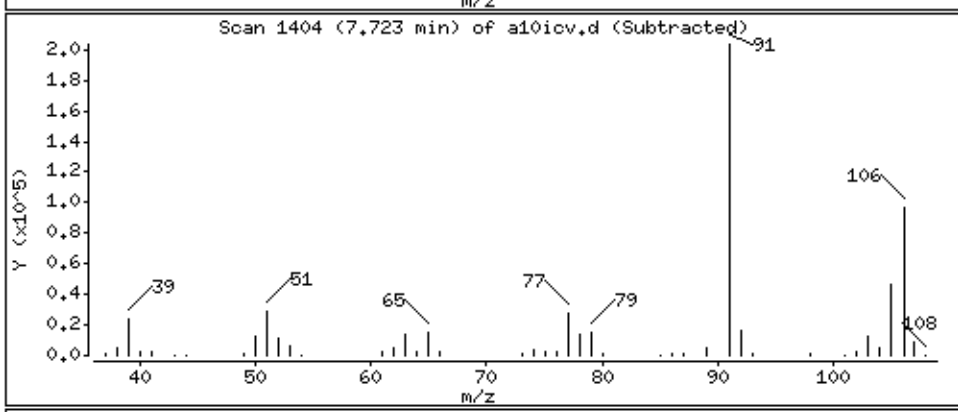
Sample Info: 8260-ICV,140022:0

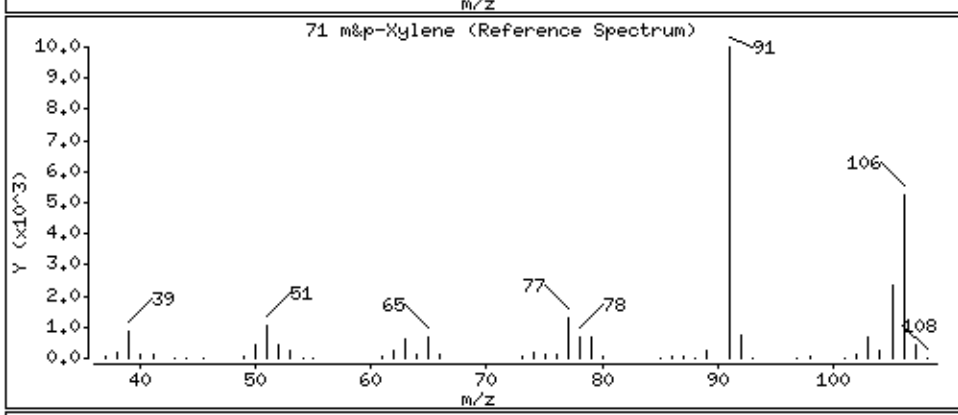
Purge Volume: 5.0 | Operator: TMW

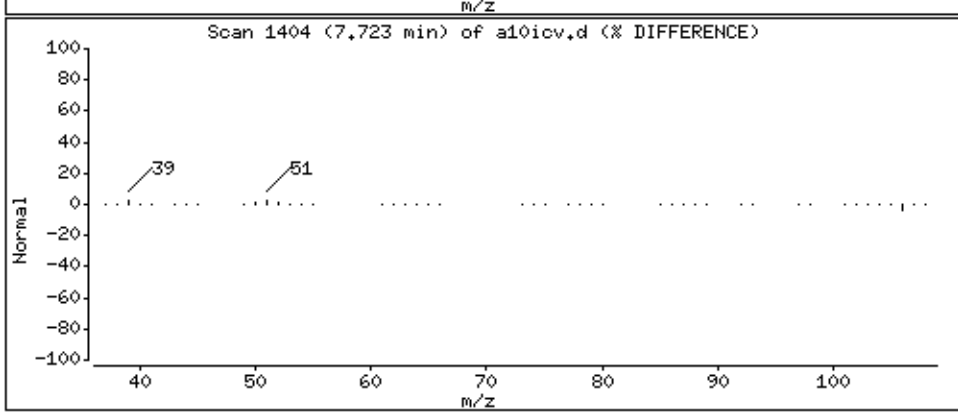
Column phase: DB-624 | Column diameter: 0.18

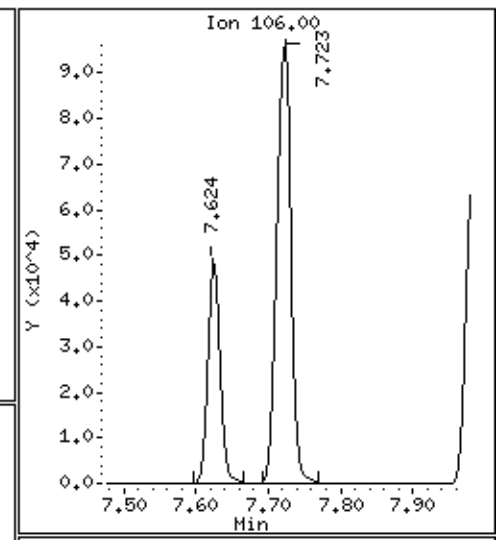
71 m&p-Xylene | Concentration: 93.4 ppb

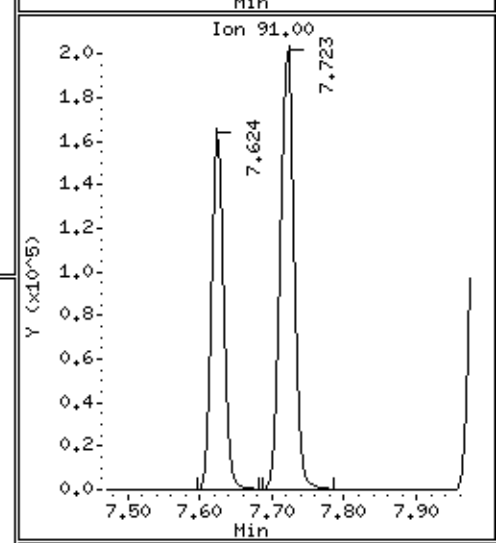


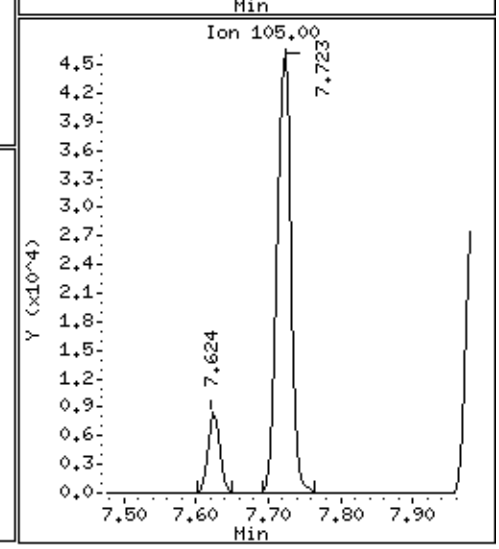












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

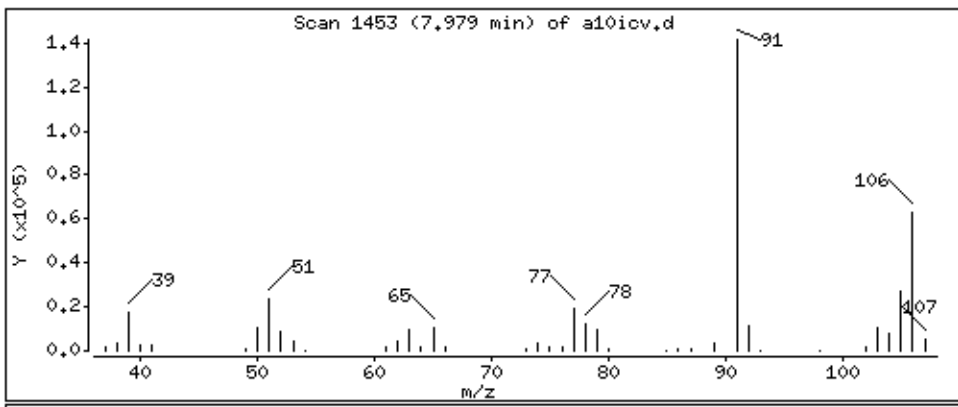
Client ID: 8260-ICV | Instrument: 50mv5a.i

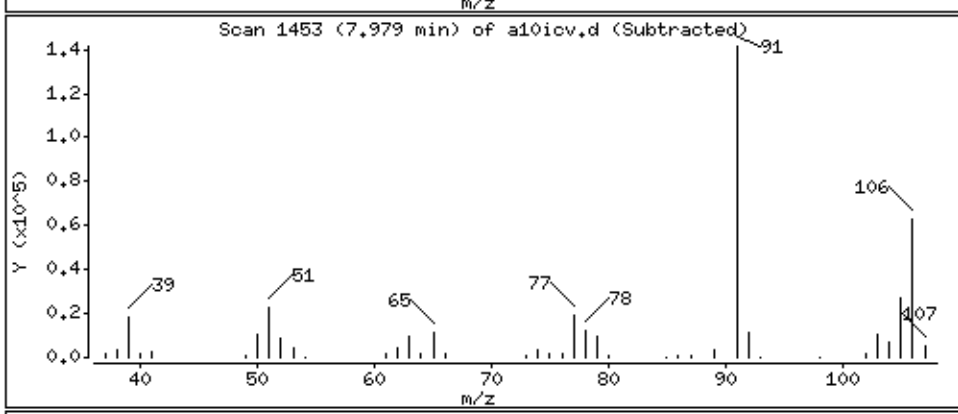
Sample Info: 8260-ICV,140022:0

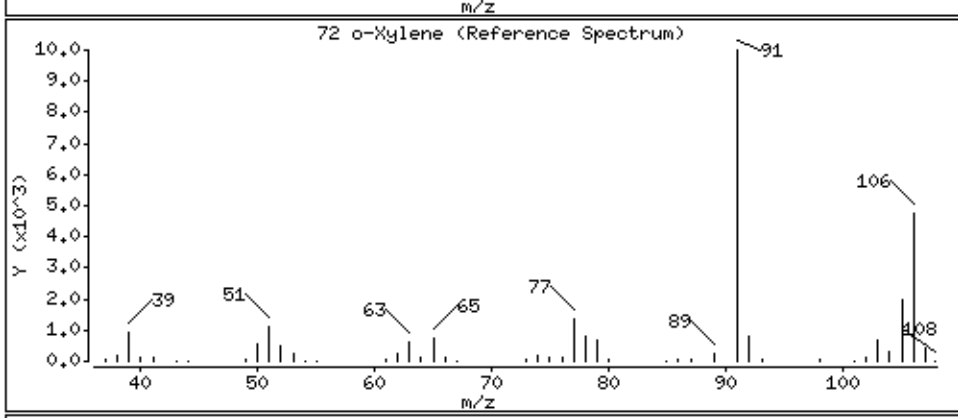
Purge Volume: 5.0 | Operator: TMW

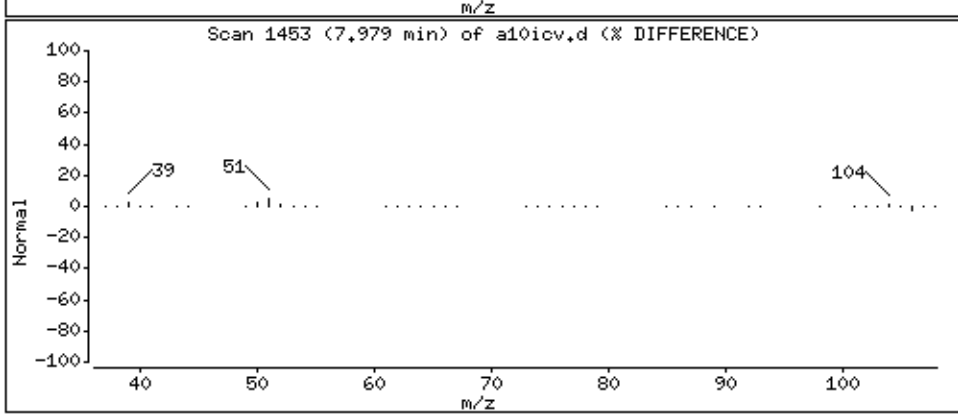
Column phase: DB-624 | Column diameter: 0.18

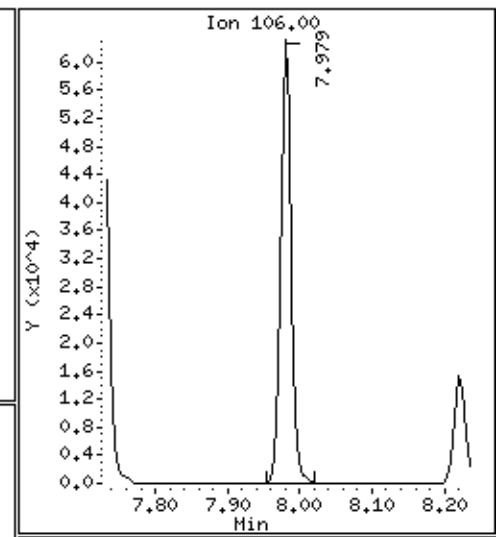
72 o-Xylene | Concentration: 43.8 ppb

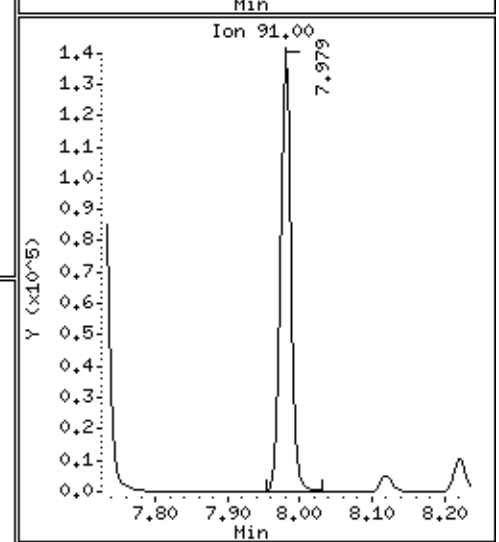


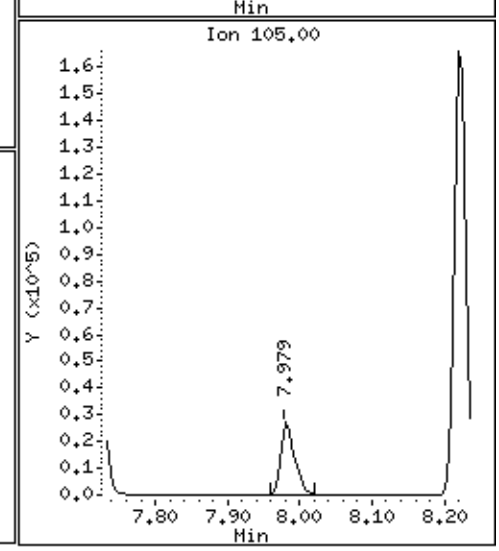












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

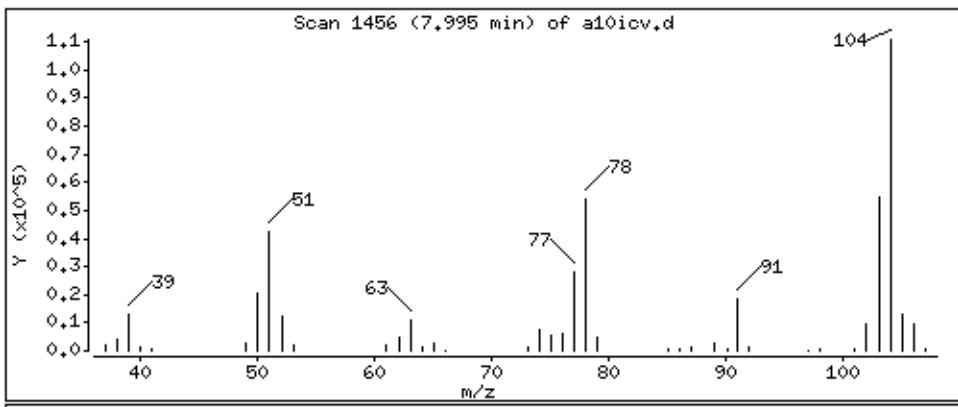
Client ID: 8260-ICV | Instrument: 50mv5a.i

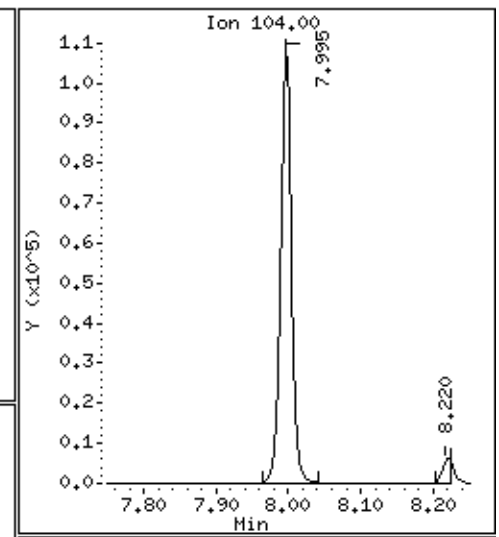
Sample Info: 8260-ICV,140022:0

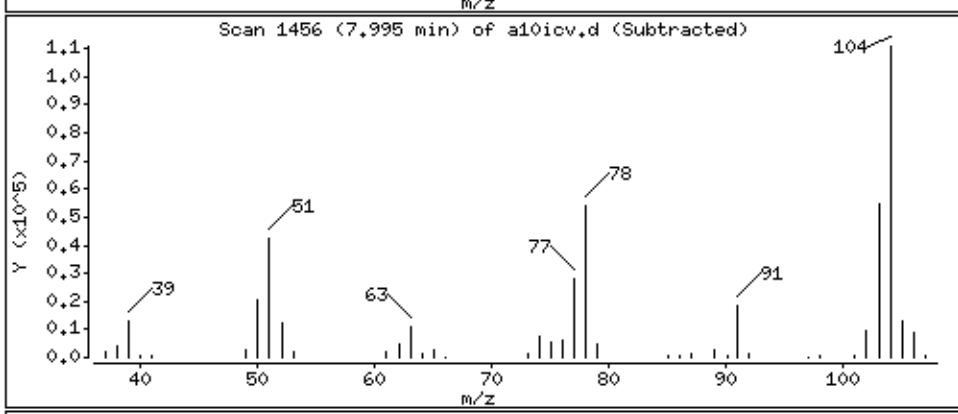
Purge Volume: 5.0 | Operator: TMW

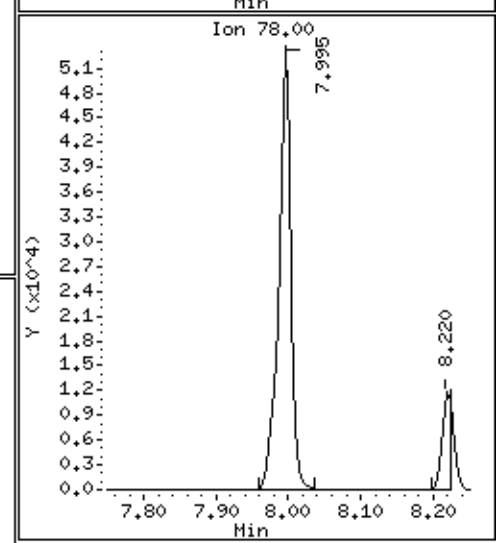
Column phase: DB-624 | Column diameter: 0.18

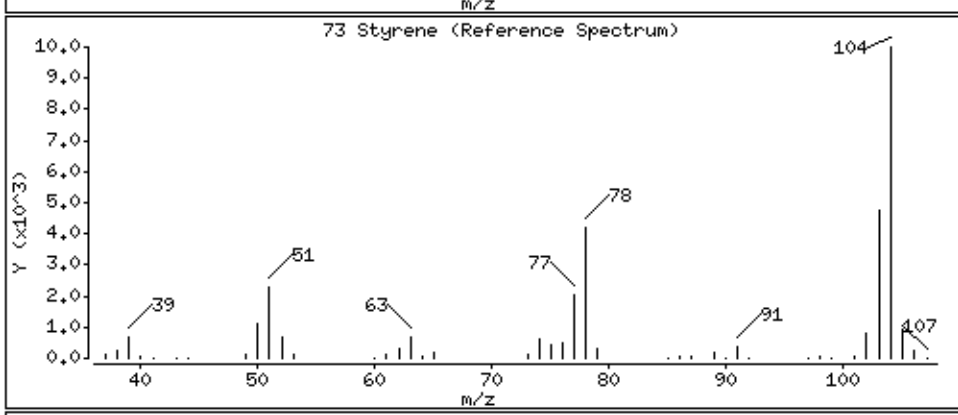
73 Styrene | Concentration: 44.8 ppb

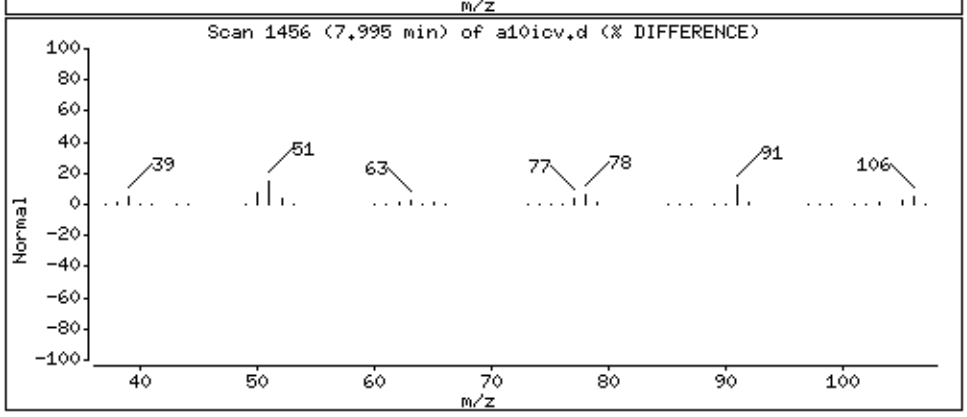












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

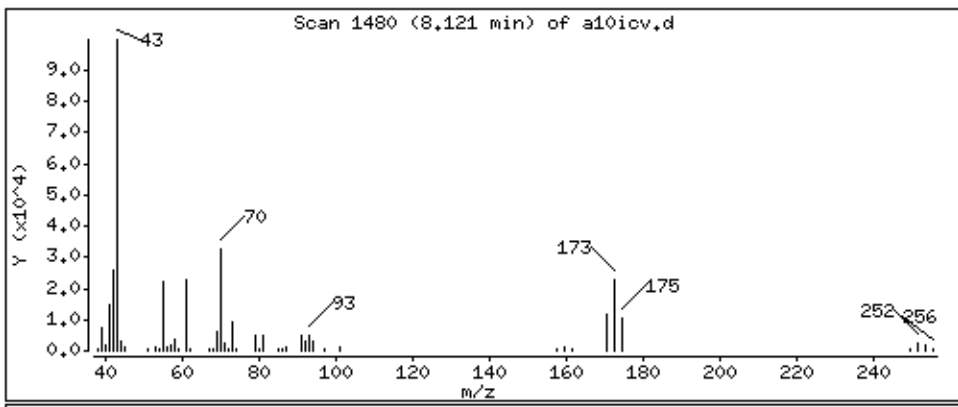
Client ID: 8260-ICV | Instrument: 50mv5a.i

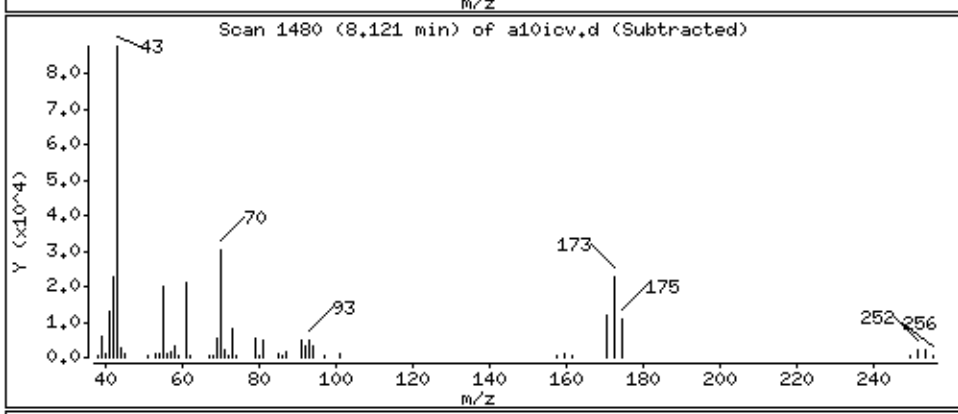
Sample Info: 8260-ICV,140022:0

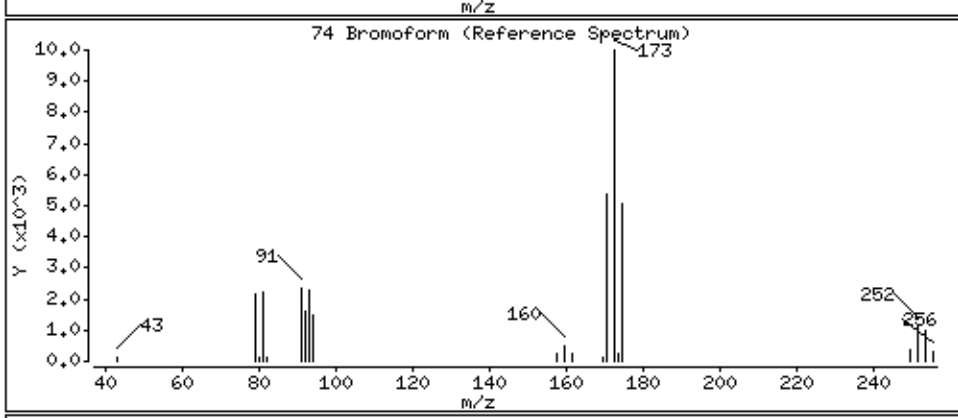
Purge Volume: 5.0 | Operator: TMW

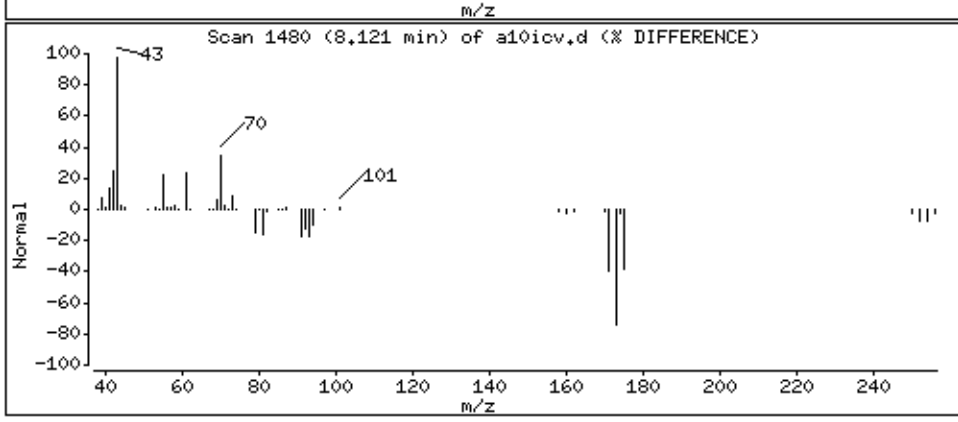
Column phase: DB-624 | Column diameter: 0.18

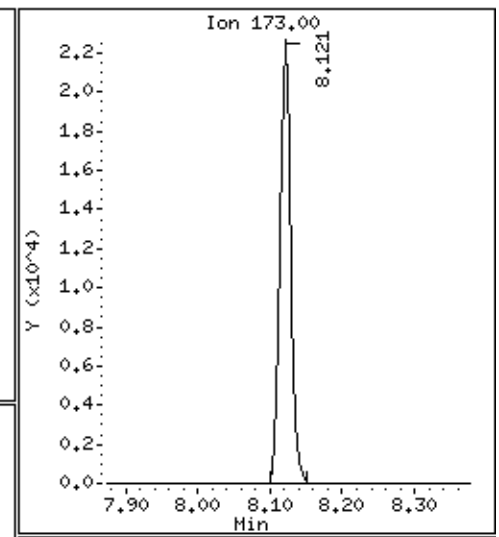
74 Bromoform | Concentration: 48.8 ppb

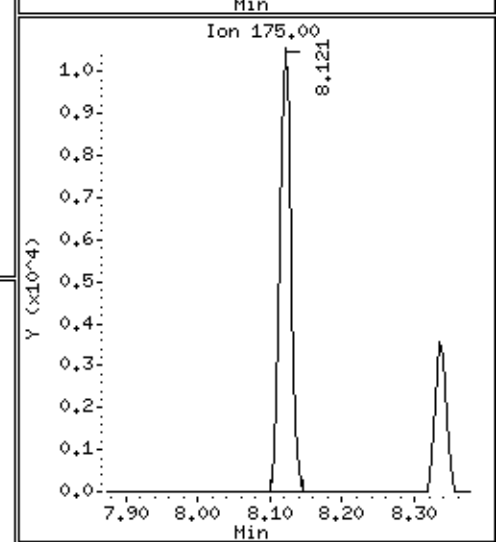


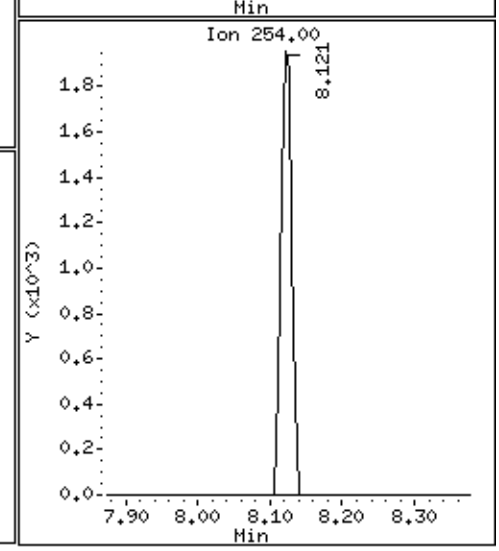












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

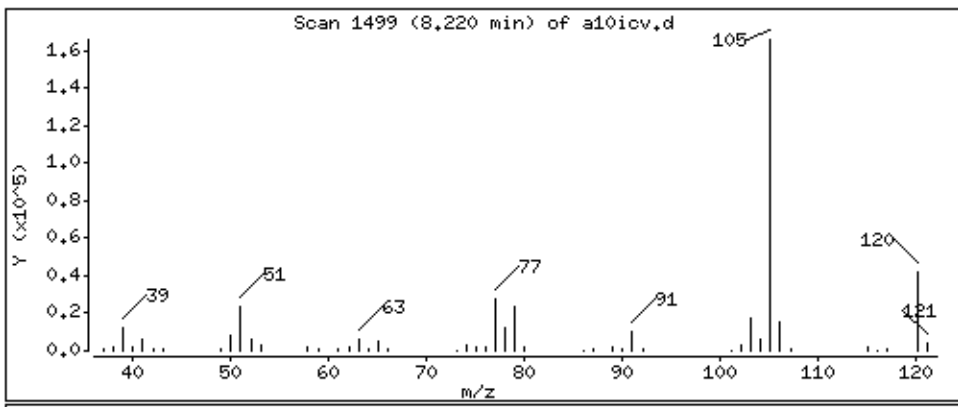
Client ID: 8260-ICV | Instrument: 50mv5a.i

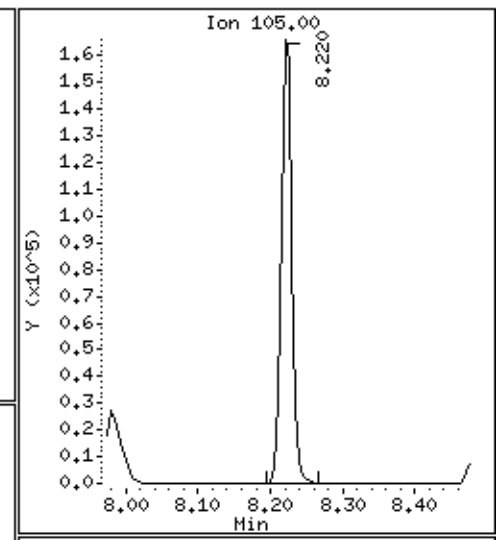
Sample Info: 8260-ICV,140022:0

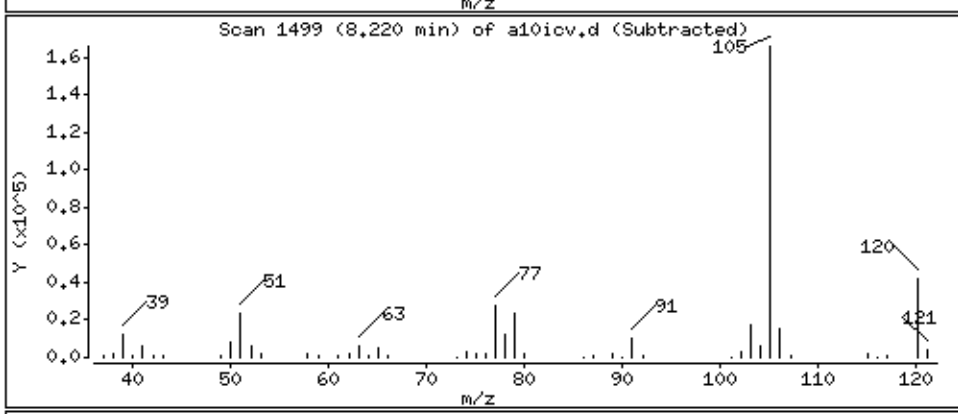
Purge Volume: 5.0 | Operator: TMW

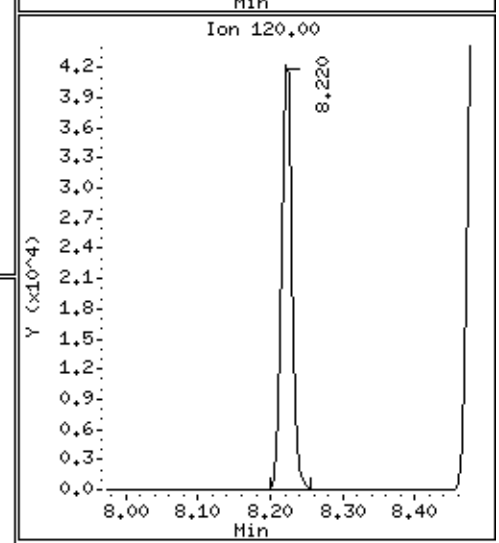
Column phase: DB-624 | Column diameter: 0.18

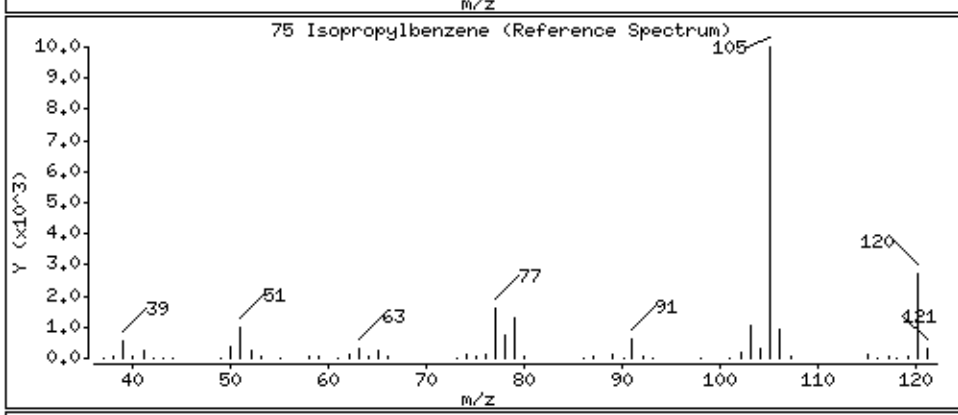
75 Isopropylbenzene | Concentration: 43.0 ppb

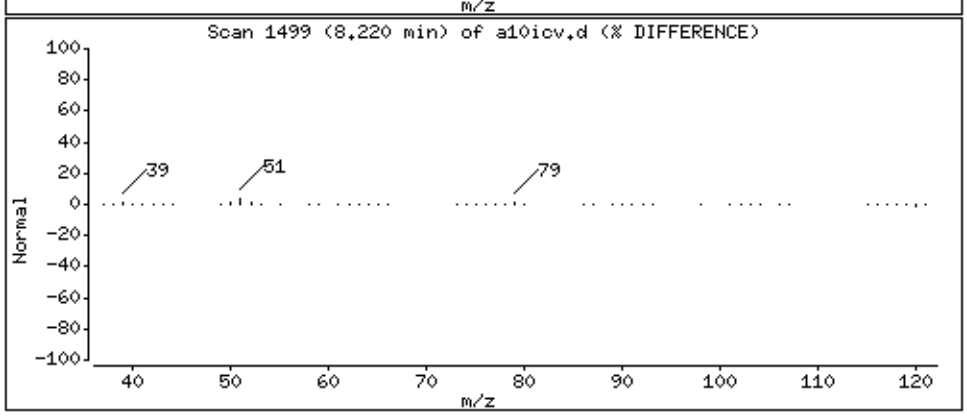












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

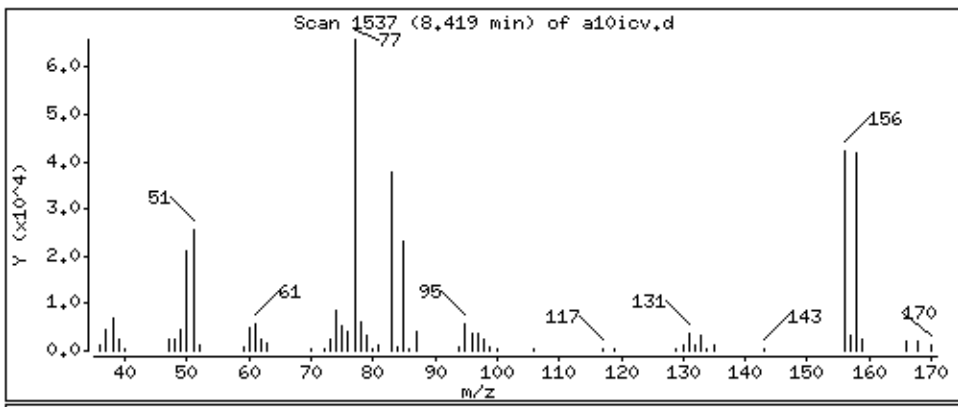
Client ID: 8260-ICV | Instrument: 50mv5a.i

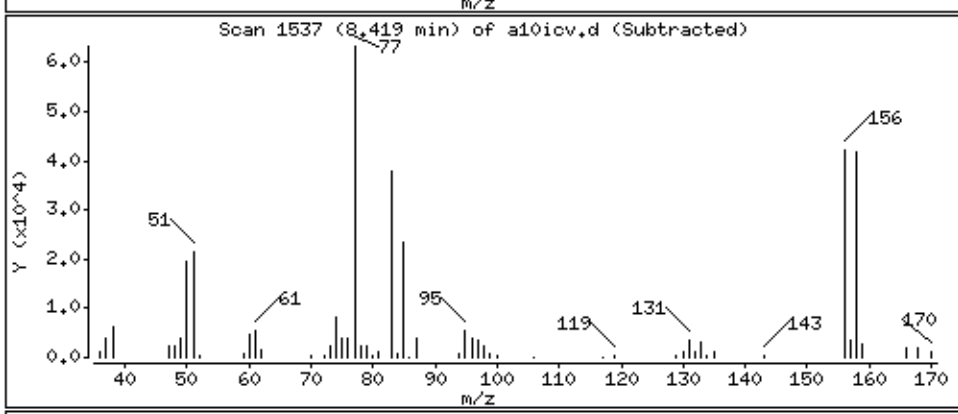
Sample Info: 8260-ICV,140022:0

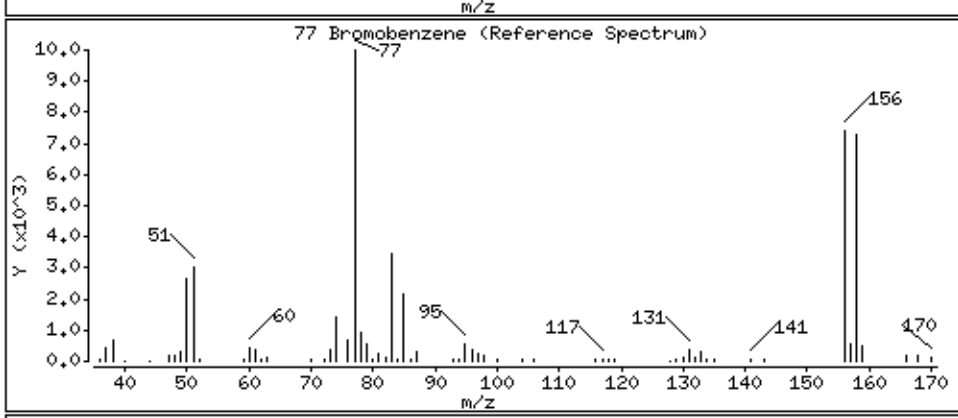
Purge Volume: 5.0 | Operator: TMW

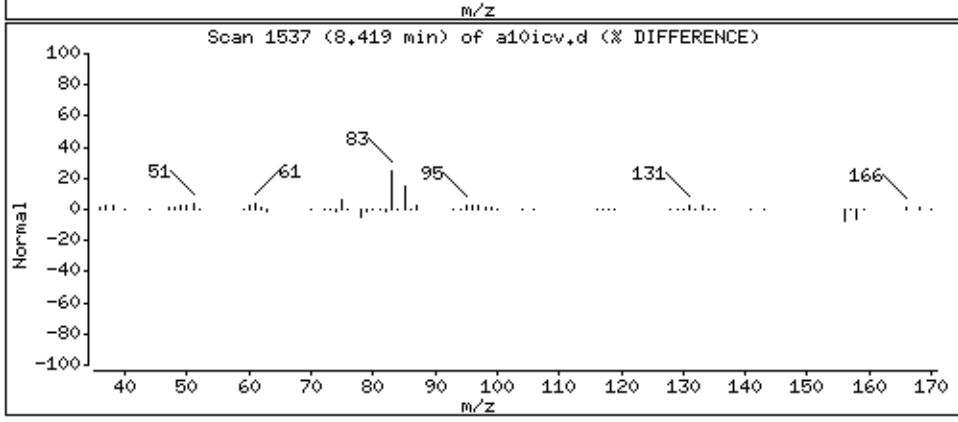
Column phase: DB-624 | Column diameter: 0.18

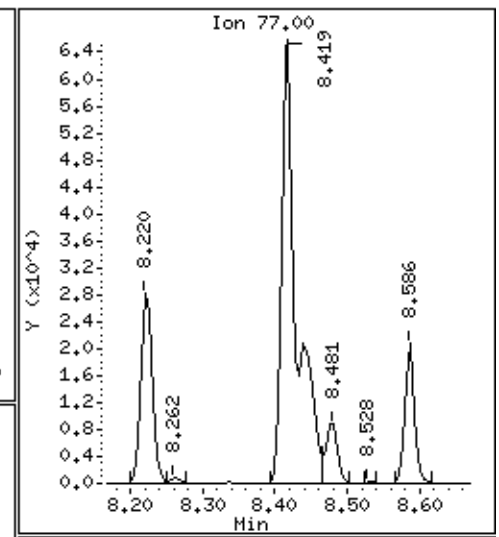
77 Bromobenzene | Concentration: 61.2 ppb

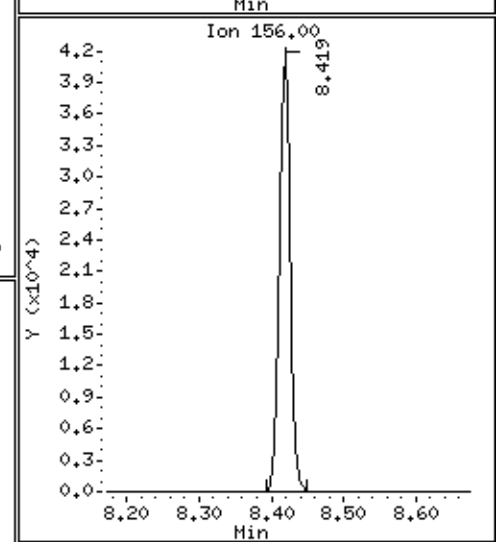


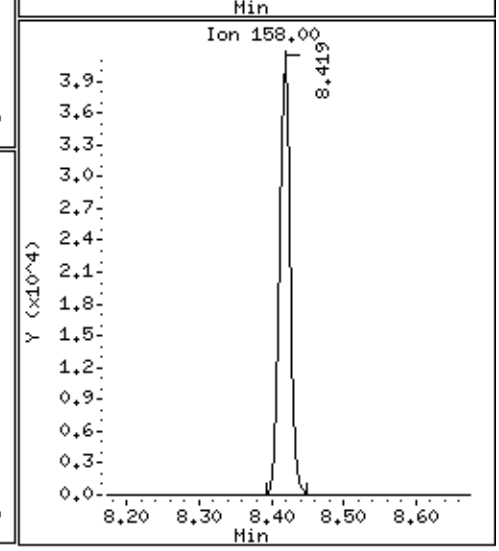












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

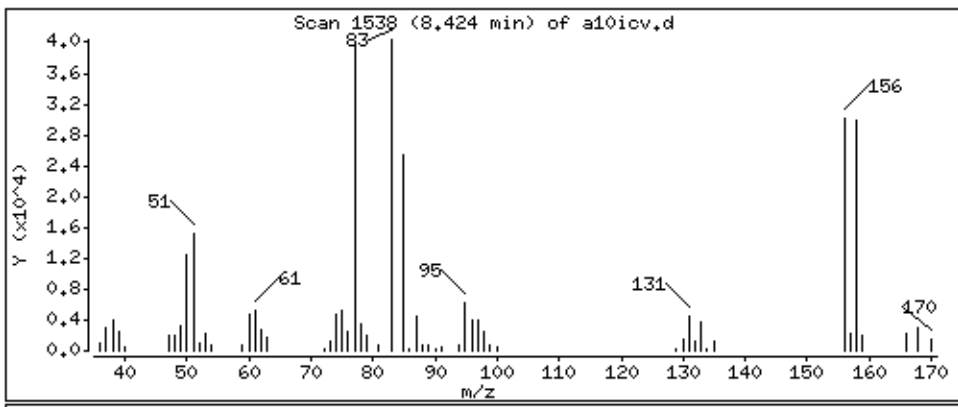
Client ID: 8260-ICV | Instrument: 50mv5a.i

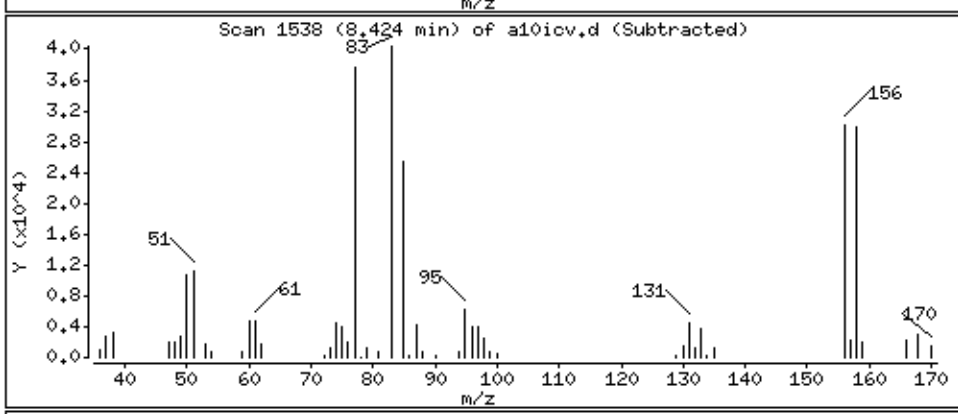
Sample Info: 8260-ICV,140022:0

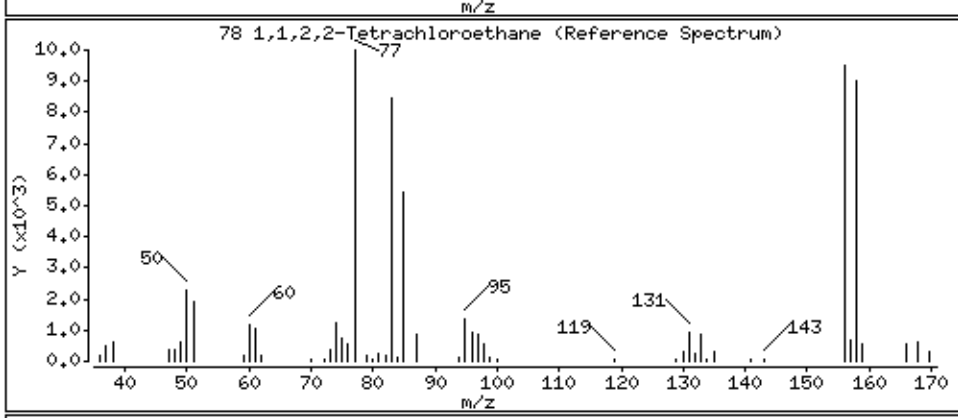
Purge Volume: 5.0 | Operator: TMW

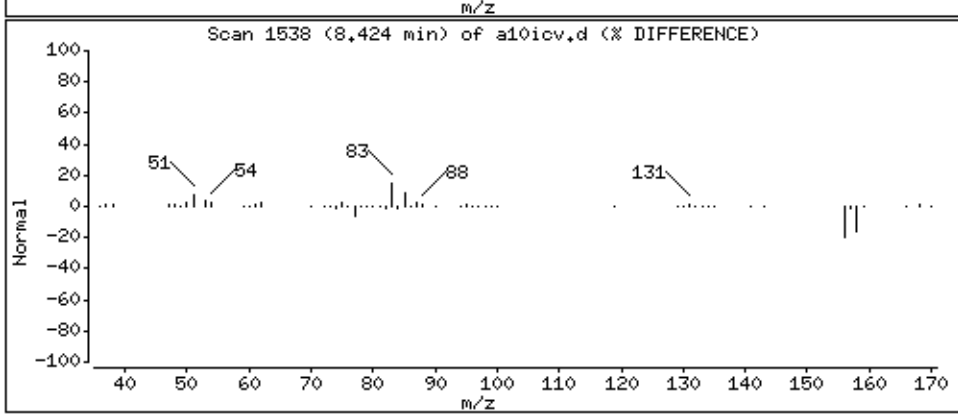
Column phase: DB-624 | Column diameter: 0.18

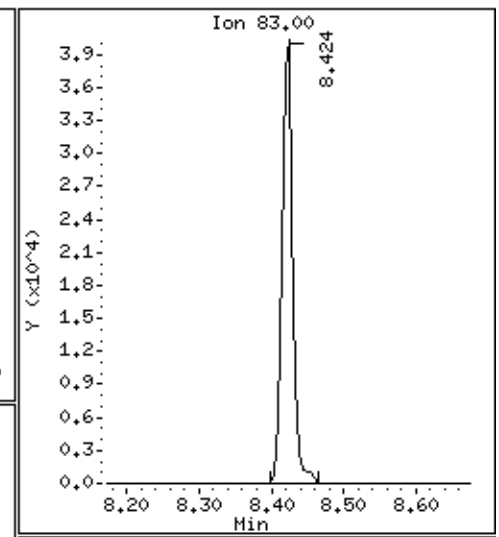
78 1,1,2,2-Tetrachloroethane | Concentration: 51.2 ppb

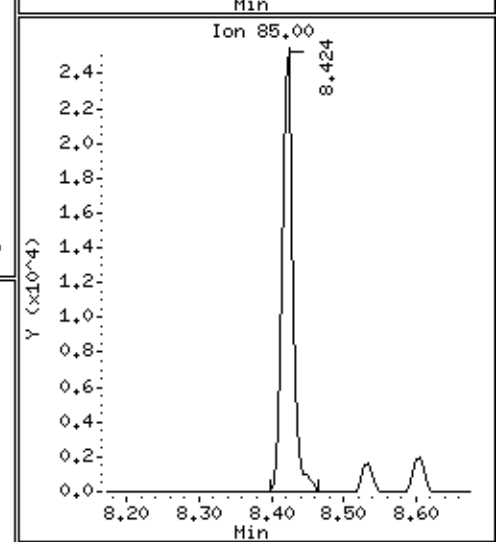


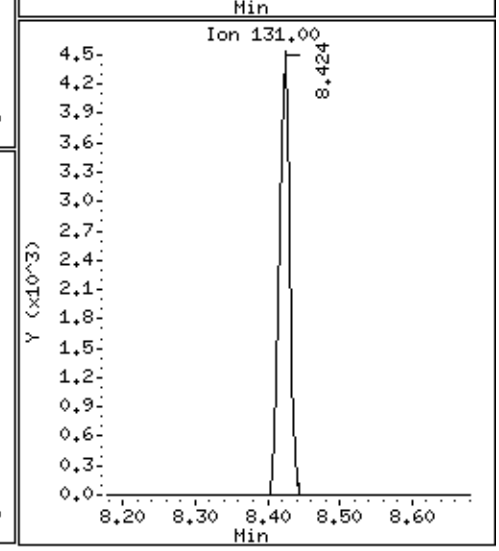












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

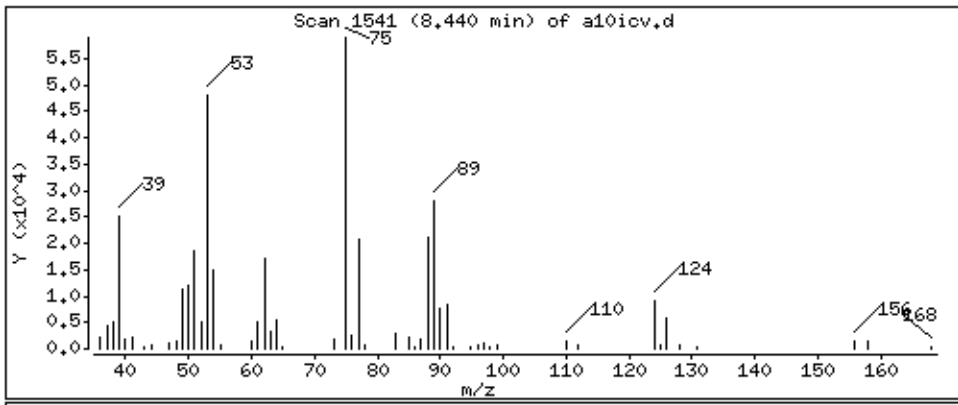
Client ID: 8260-ICV | Instrument: 50mv5a.i

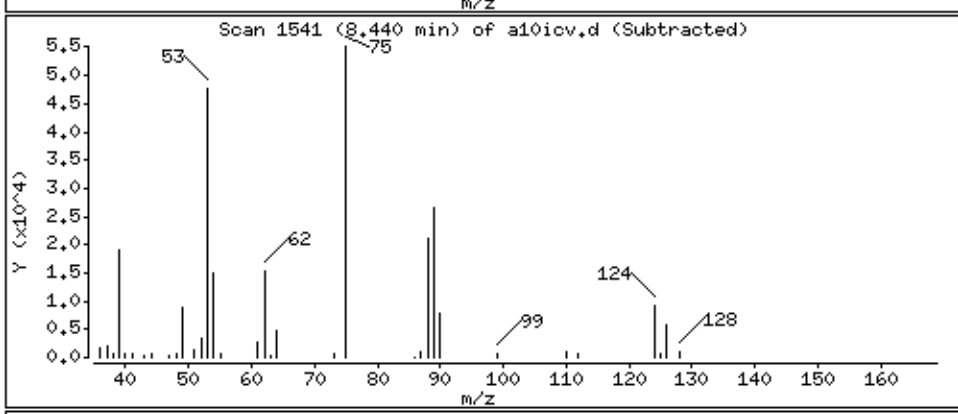
Sample Info: 8260-ICV,140022:0

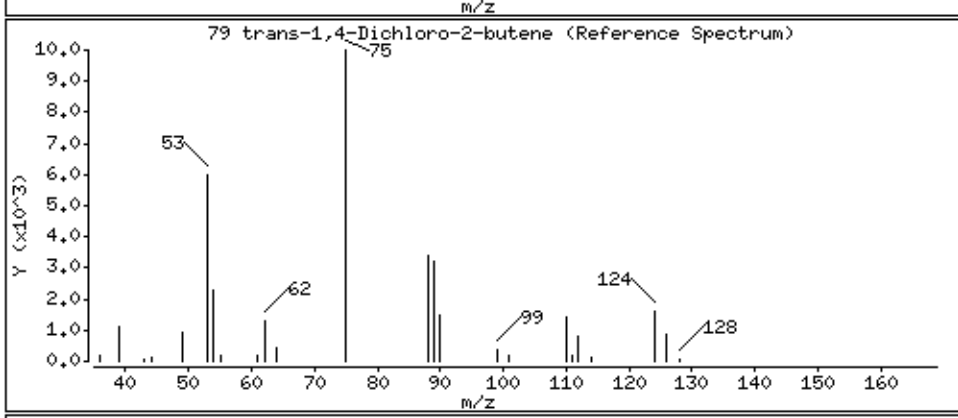
Purge Volume: 5.0 | Operator: TMW

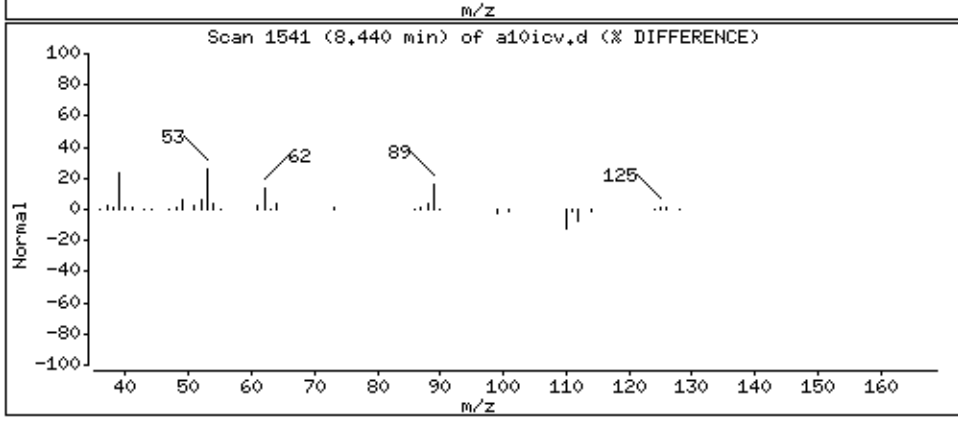
Column phase: DB-624 | Column diameter: 0.18

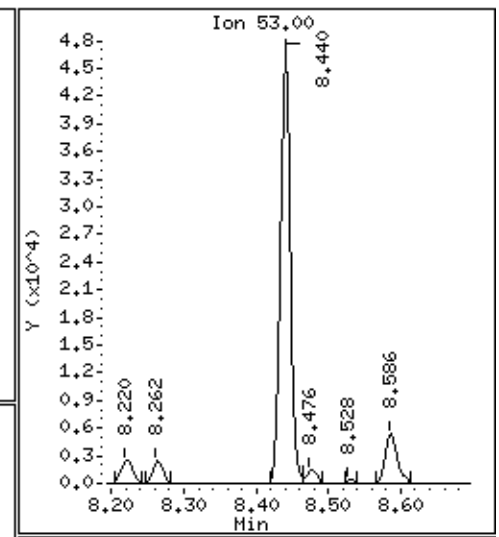
79 trans-1,4-Dichloro-2-butene | Concentration: 176 ppb

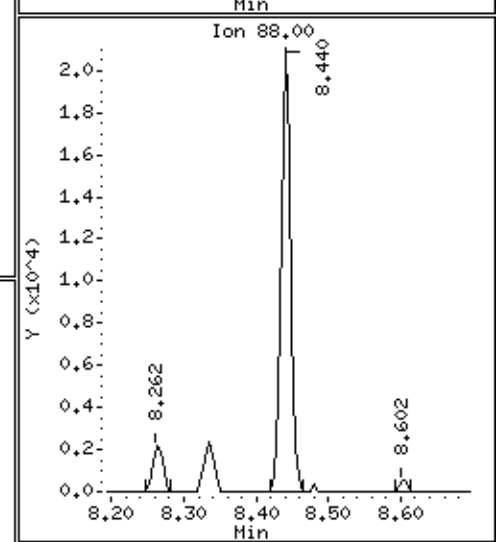


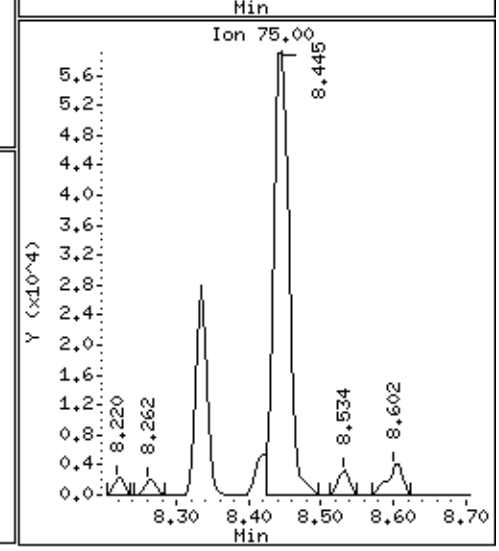












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

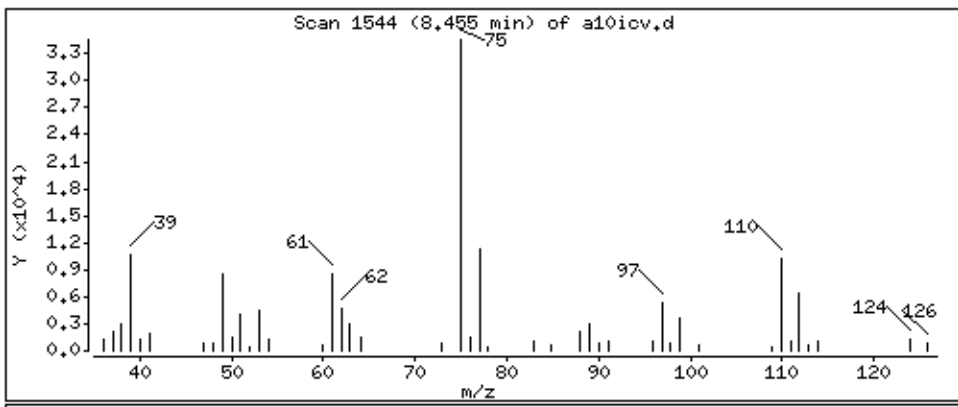
Client ID: 8260-ICV | Instrument: 50mv5a.i

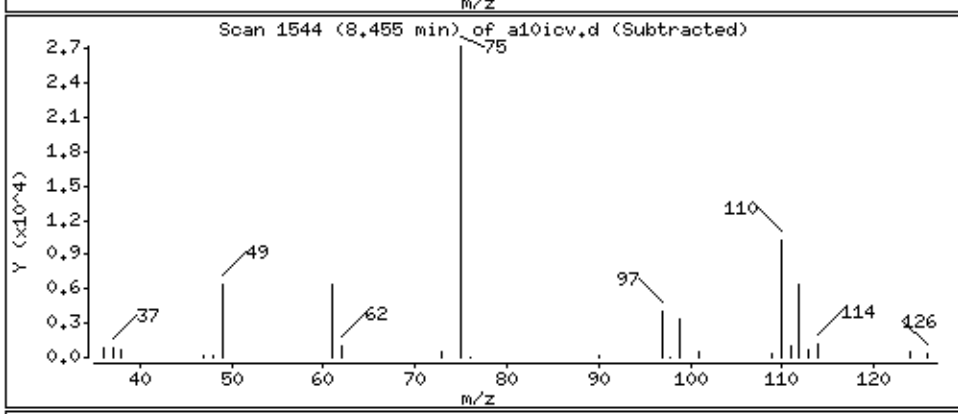
Sample Info: 8260-ICV,140022:0

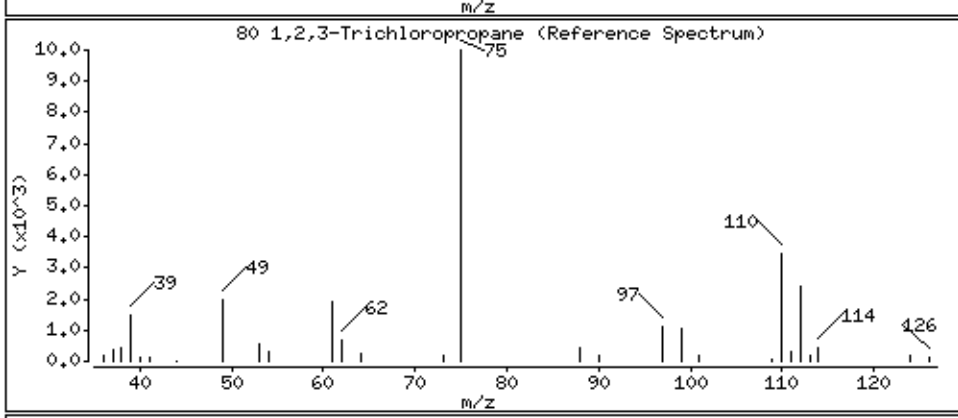
Purge Volume: 5.0 | Operator: TMW

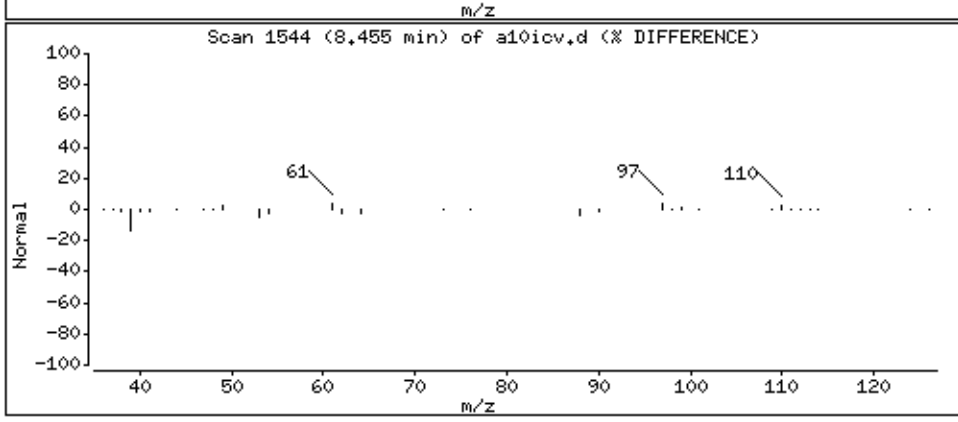
Column phase: DB-624 | Column diameter: 0.18

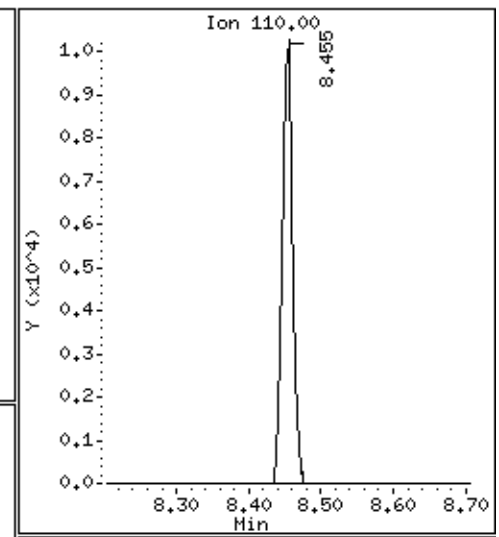
80 1,2,3-Trichloropropane | Concentration: 52.7 ppb

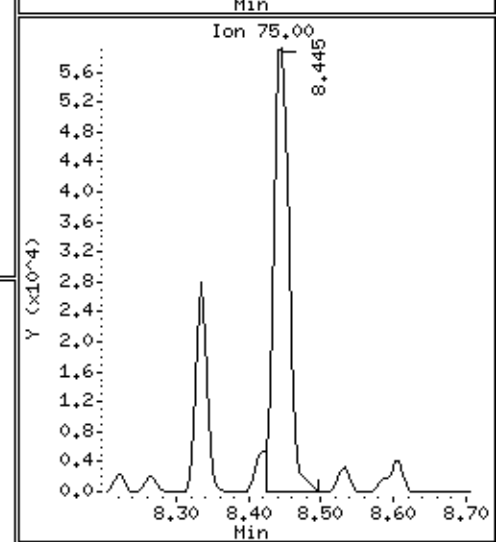


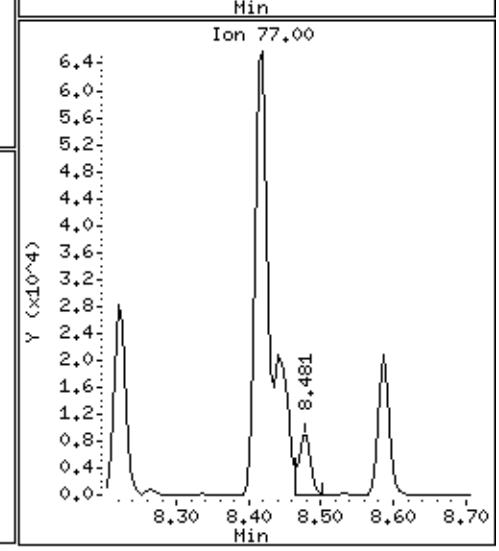












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

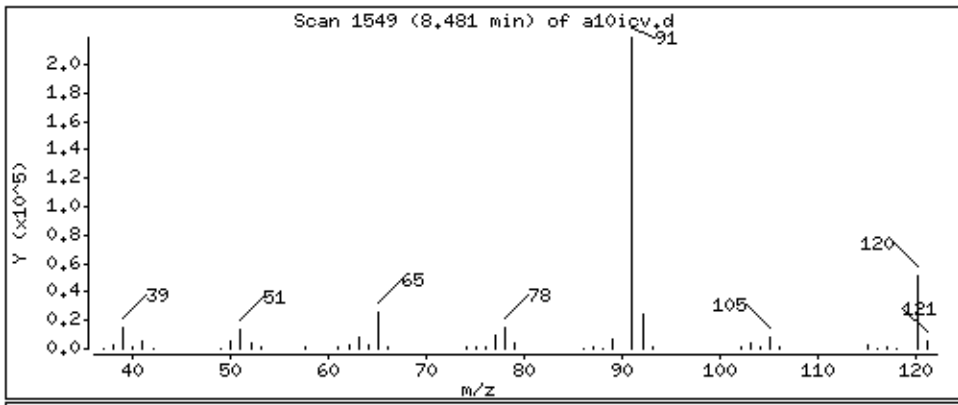
Client ID: 8260-ICV | Instrument: 50mv5a.i

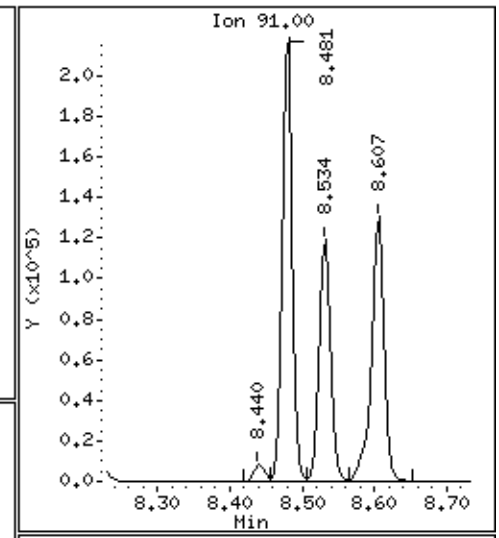
Sample Info: 8260-ICV,140022:0

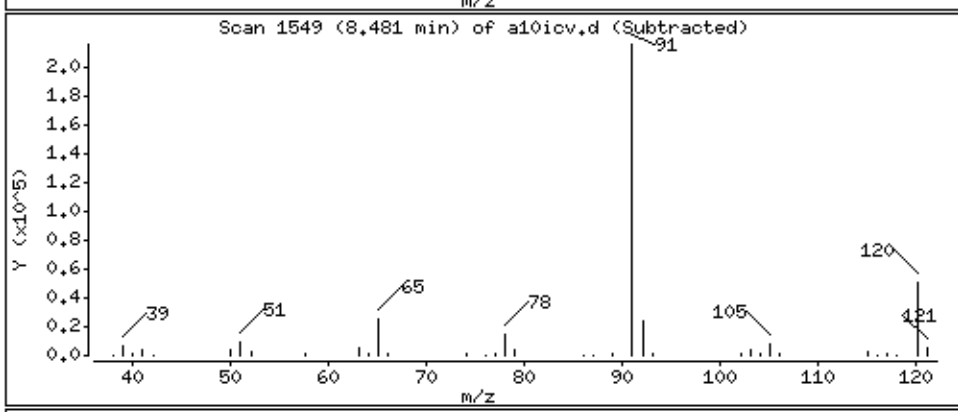
Purge Volume: 5.0 | Operator: TMW

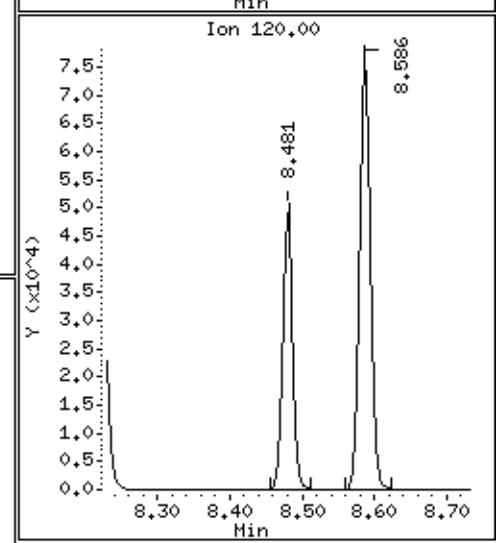
Column phase: DB-624 | Column diameter: 0.18

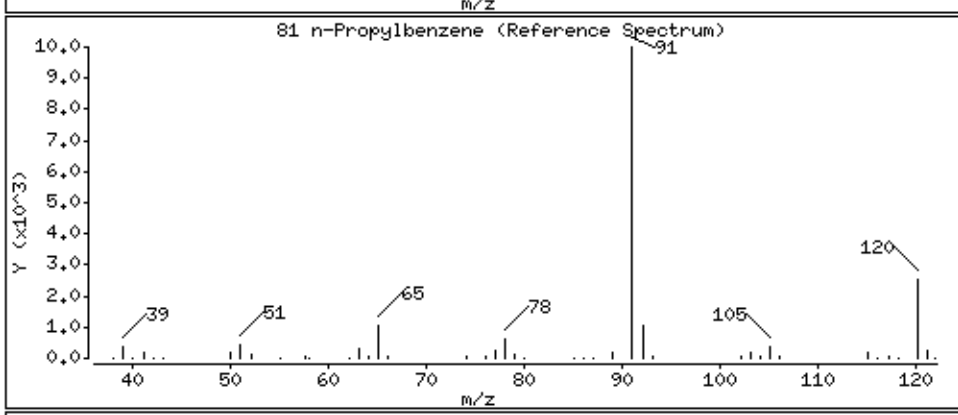
81 n-Propylbenzene | Concentration: 49.8 ppb

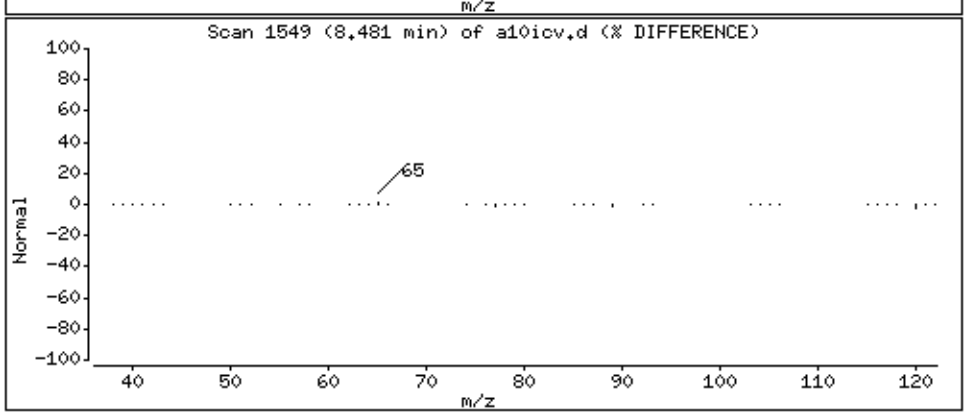












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

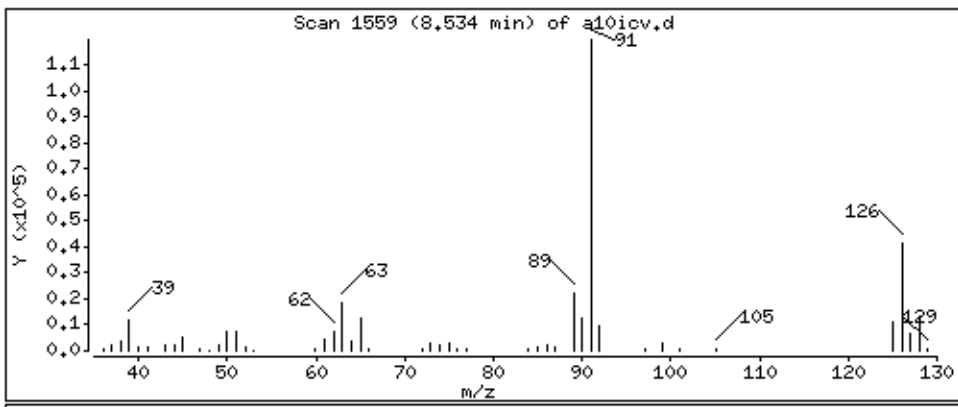
Client ID: 8260-ICV | Instrument: 50mv5a.i

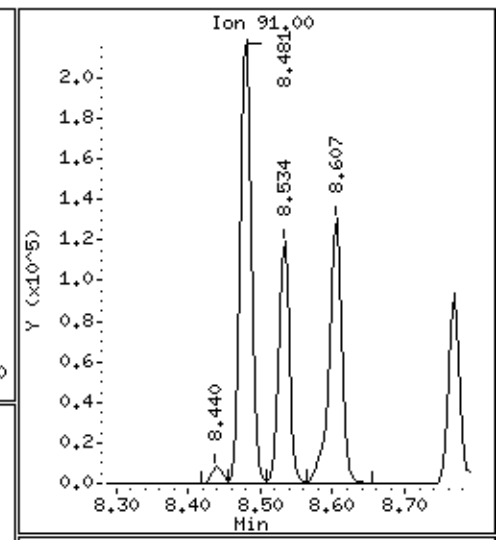
Sample Info: 8260-ICV,140022:0

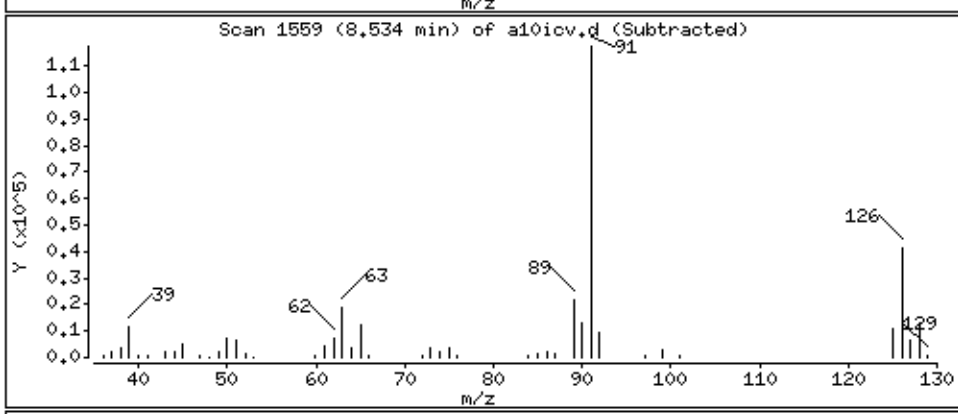
Purge Volume: 5.0 | Operator: TMW

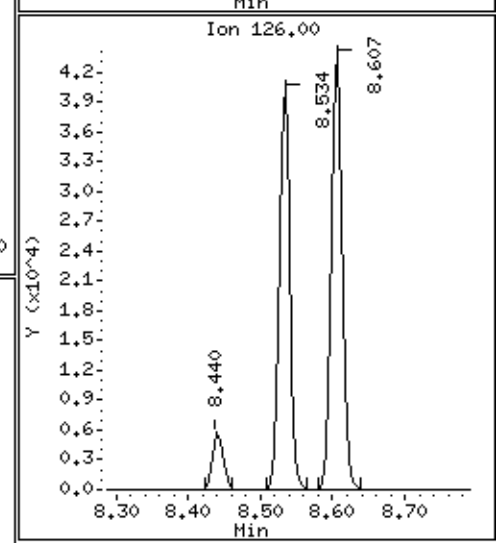
Column phase: DB-624 | Column diameter: 0.18

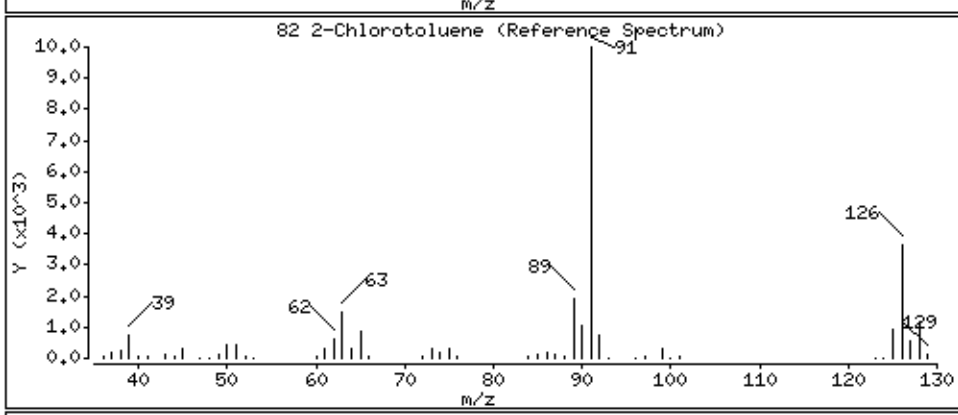
82 2-Chlorotoluene | Concentration: 47.4 ppb

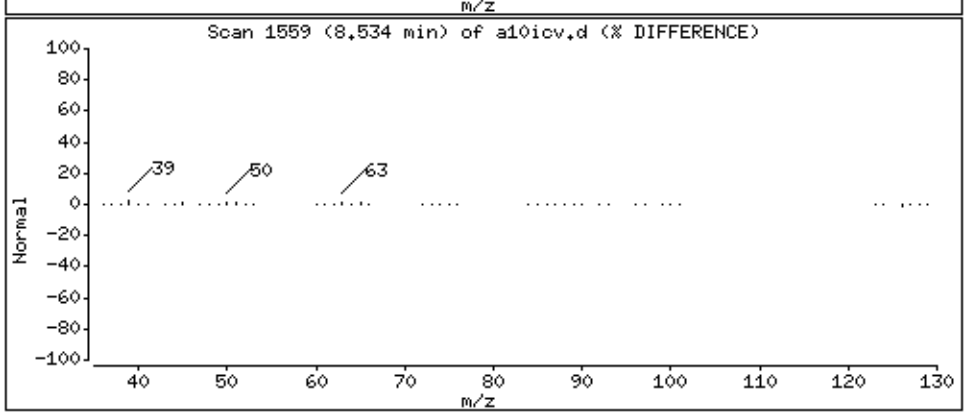












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

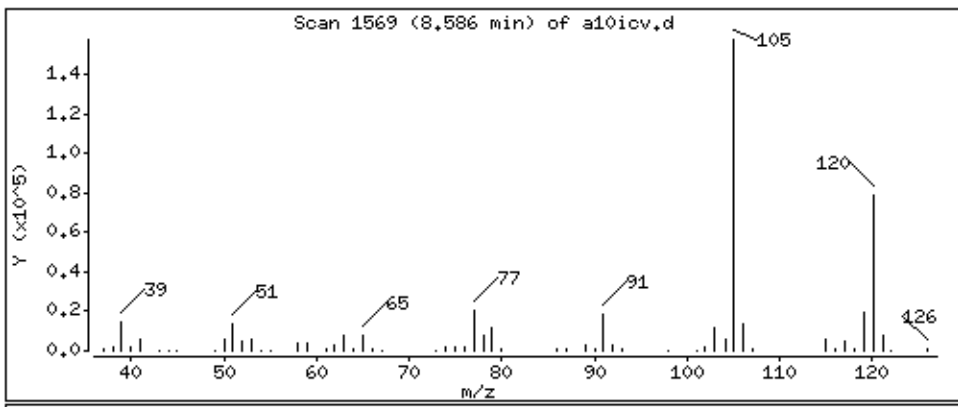
Client ID: 8260-ICV | Instrument: 50mv5a.i

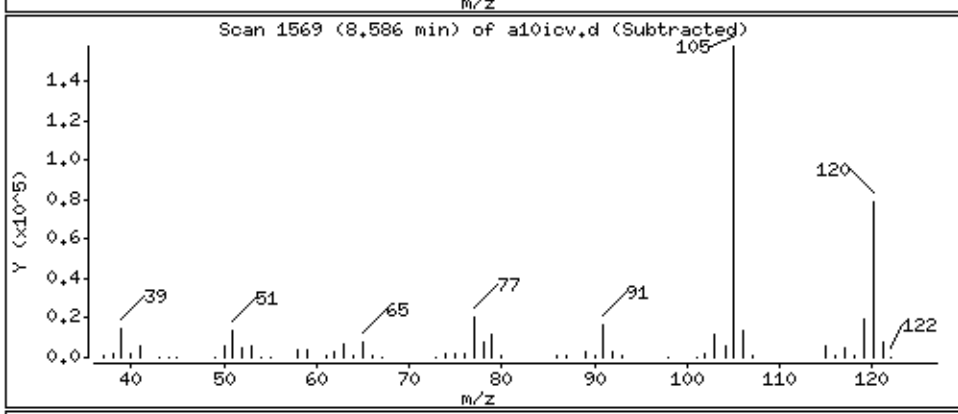
Sample Info: 8260-ICV,140022:0

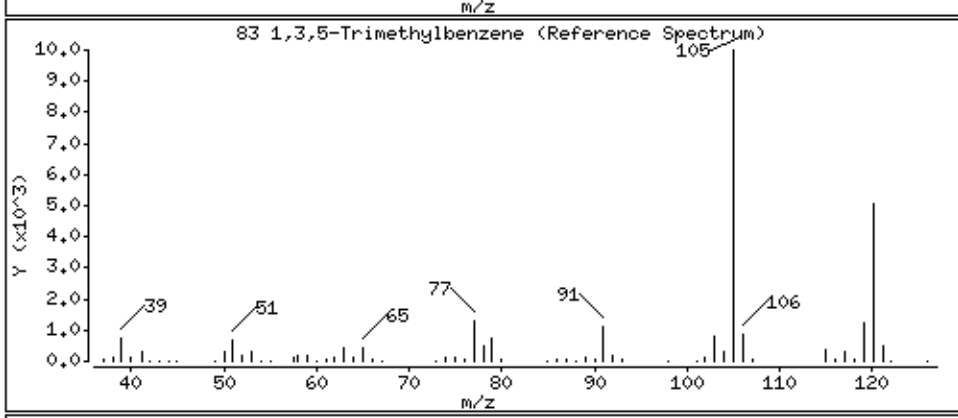
Purge Volume: 5.0 | Operator: TMW

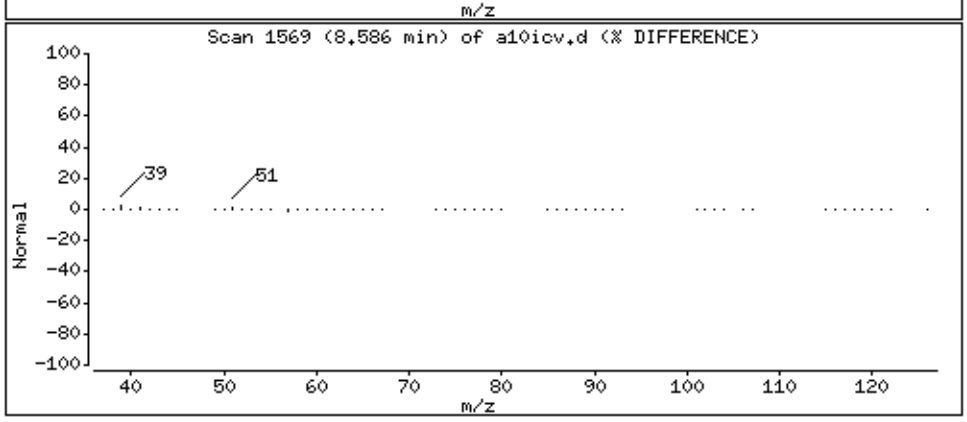
Column phase: DB-624 | Column diameter: 0.18

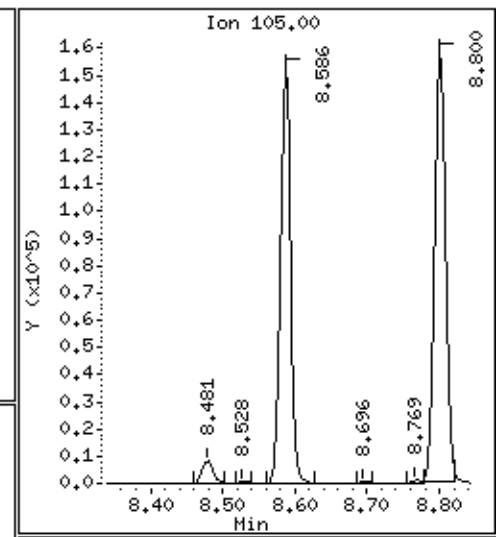
83 1,3,5-Trimethylbenzene | Concentration: 48.1 ppb

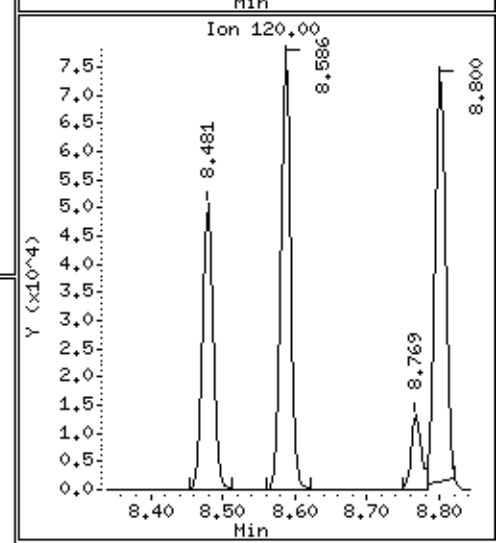












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

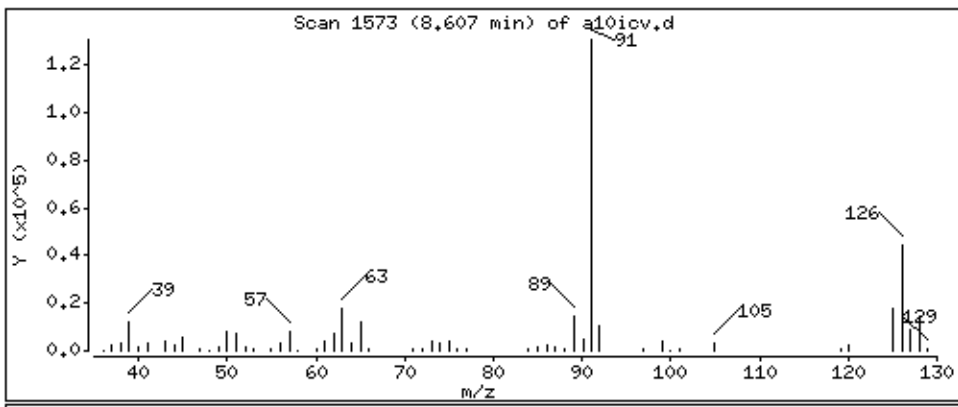
Client ID: 8260-ICV | Instrument: 50mv5a.i

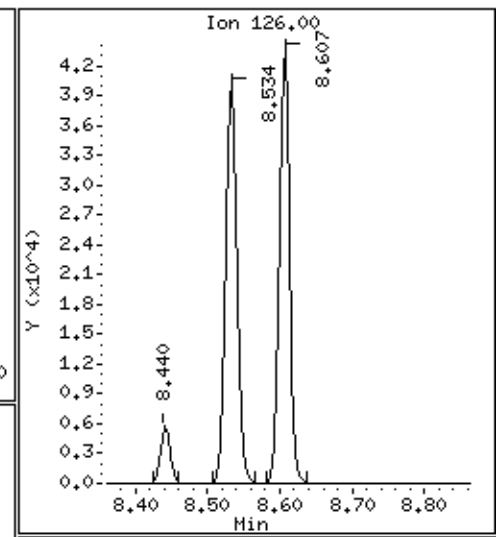
Sample Info: 8260-ICV,140022:0

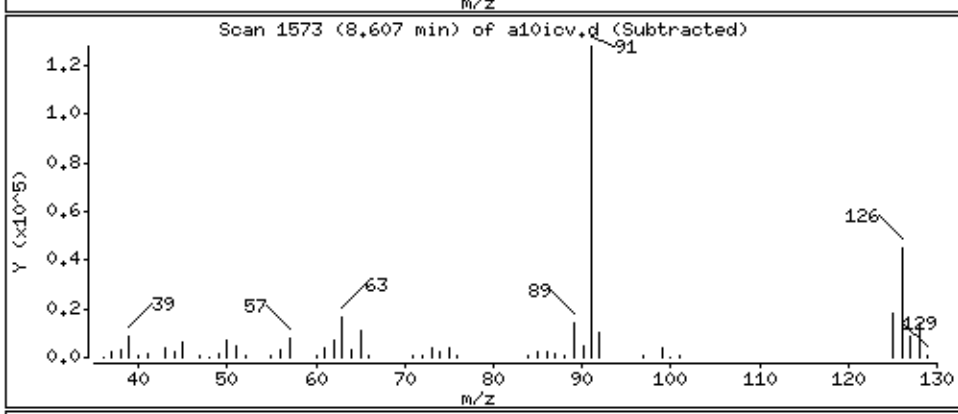
Purge Volume: 5.0 | Operator: TMW

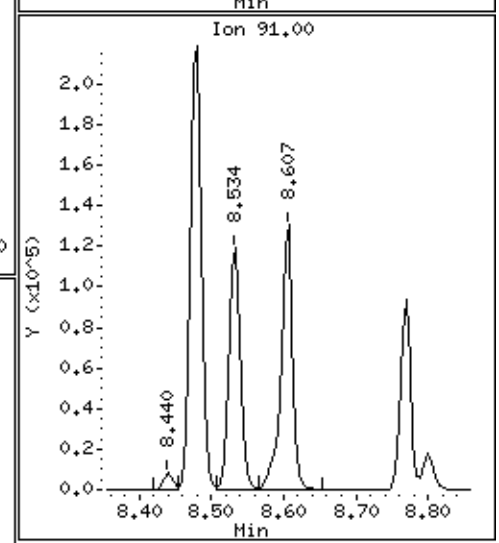
Column phase: DB-624 | Column diameter: 0.18

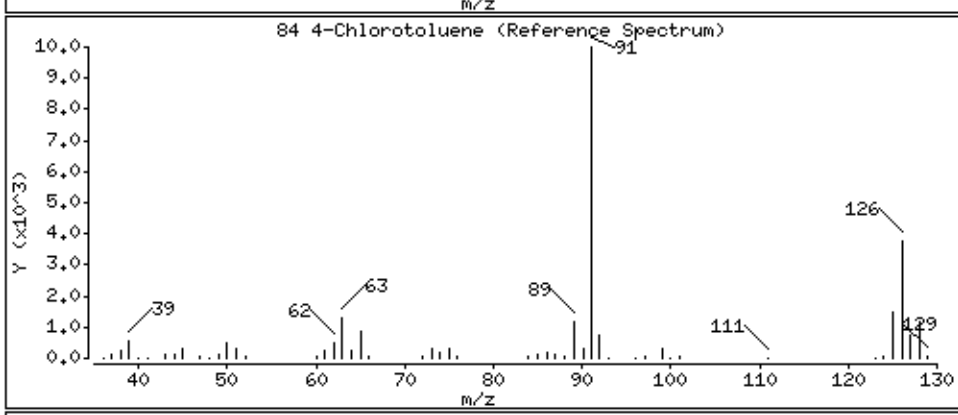
84 4-Chlorotoluene | Concentration: 47.2 ppb

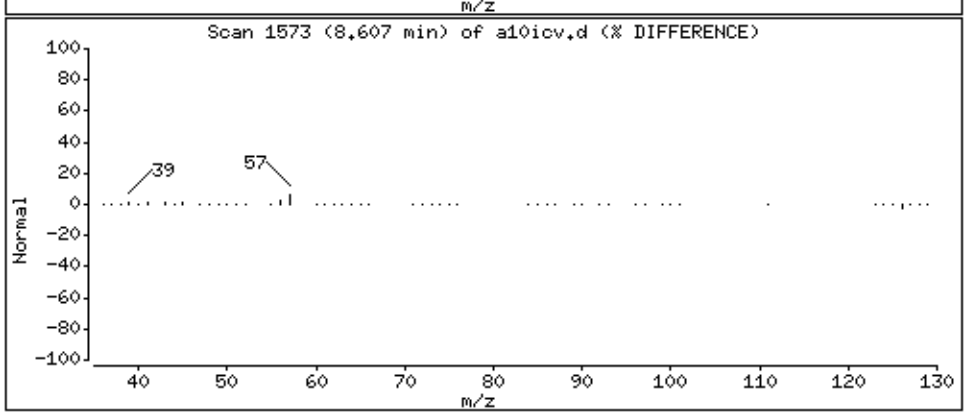












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

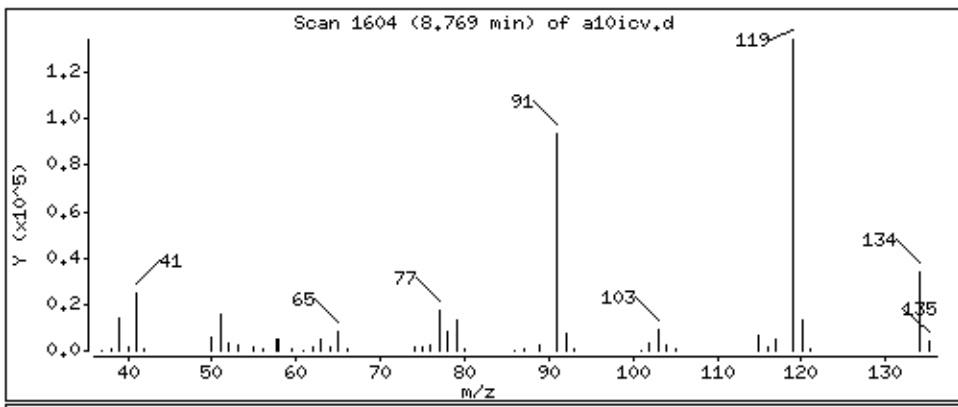
Client ID: 8260-ICV | Instrument: 50mv5a.i

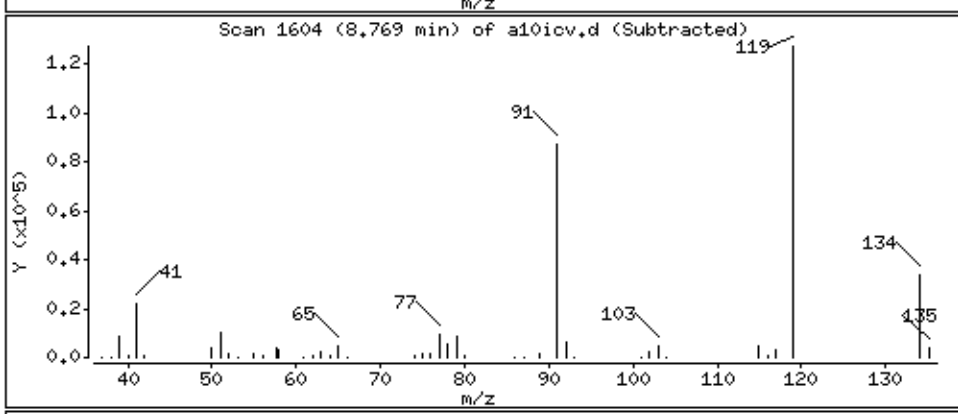
Sample Info: 8260-ICV,140022:0

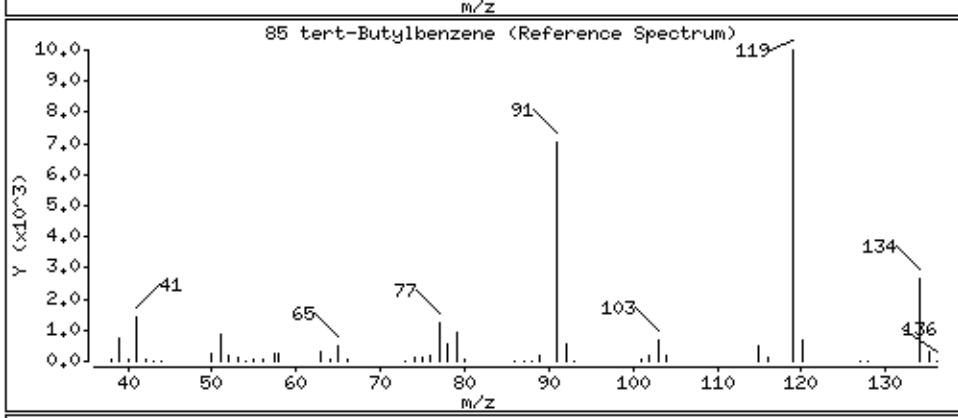
Purge Volume: 5.0 | Operator: TMW

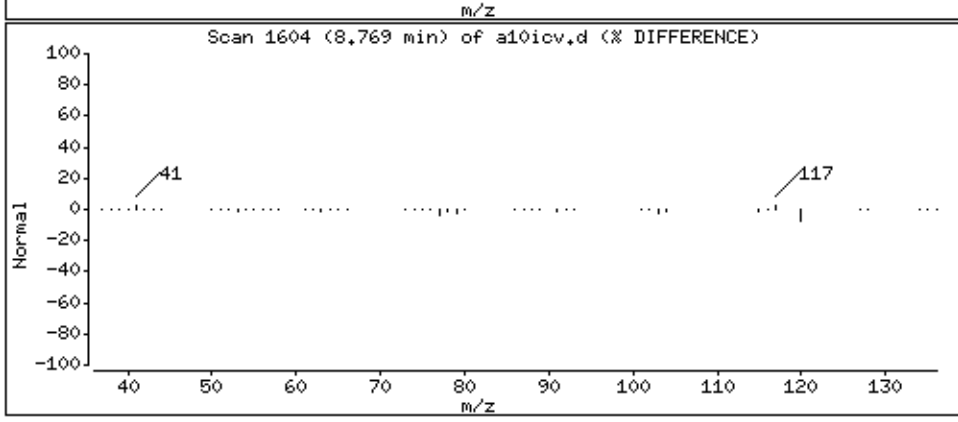
Column phase: DB-624 | Column diameter: 0.18

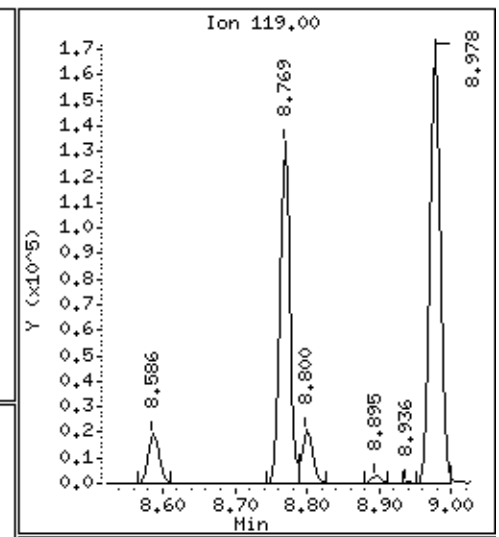
85 tert-Butylbenzene | Concentration: 47.4 ppb

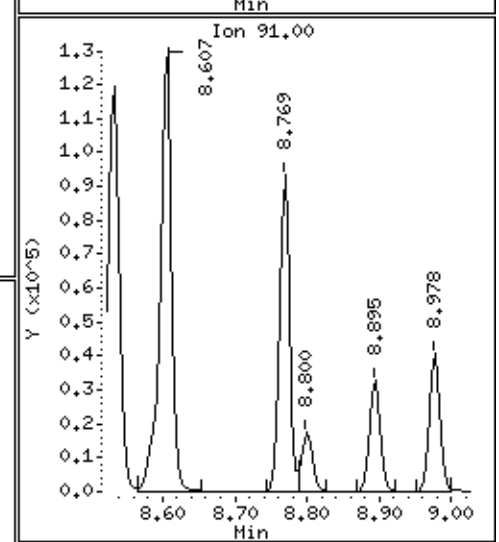


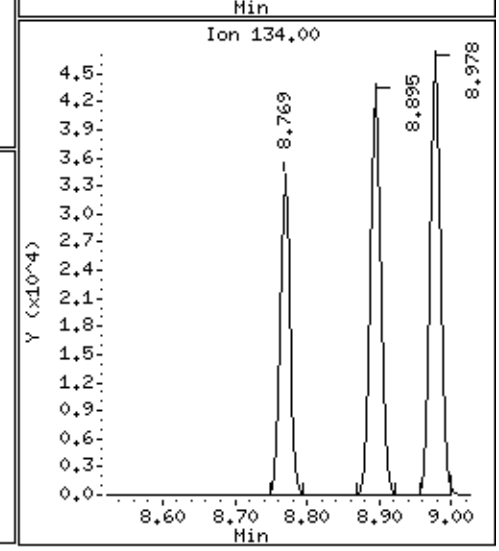












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

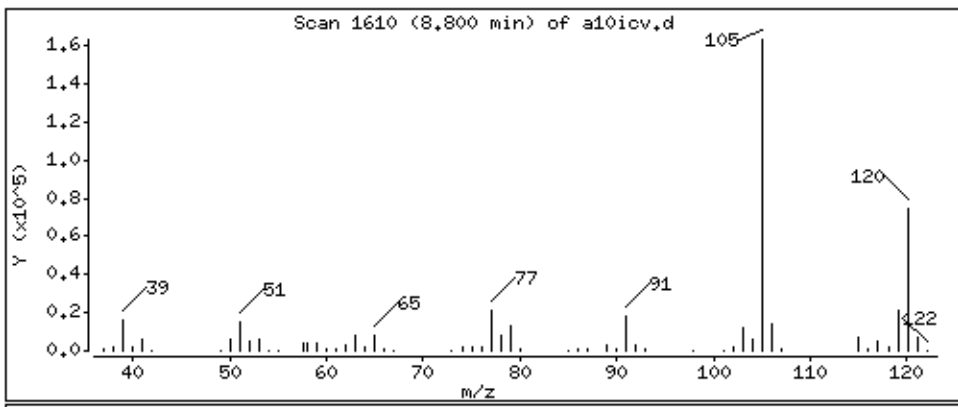
Client ID: 8260-ICV | Instrument: 50mv5a.i

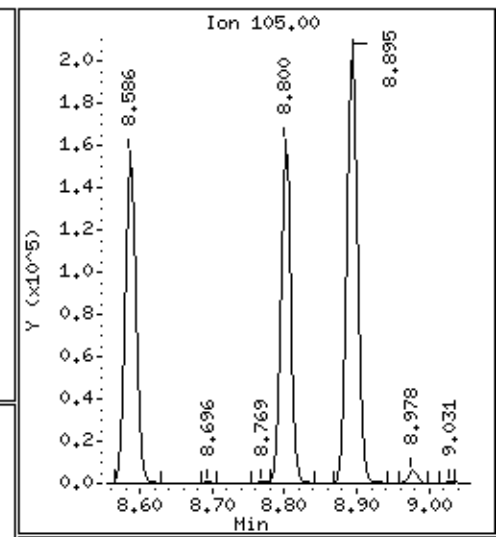
Sample Info: 8260-ICV,140022:0

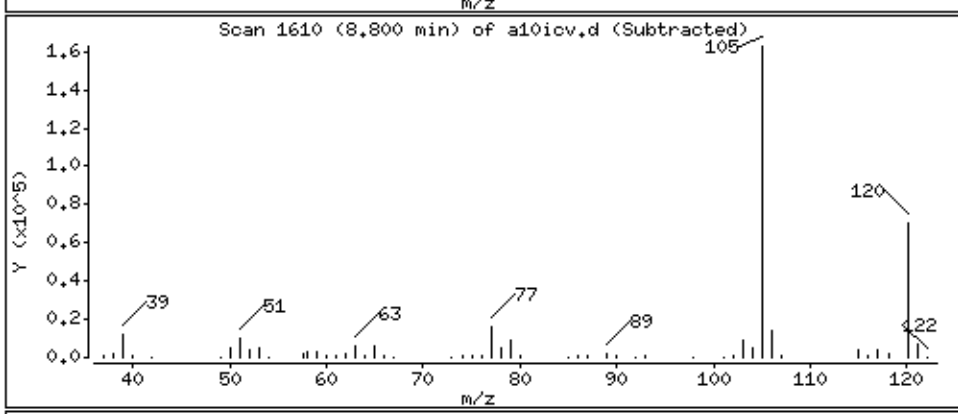
Purge Volume: 5.0 | Operator: TMW

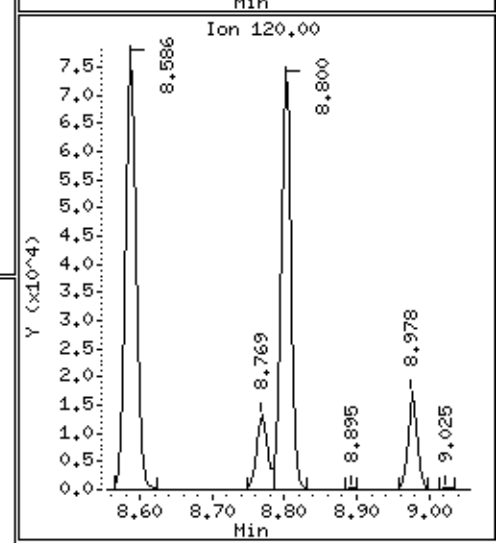
Column phase: DB-624 | Column diameter: 0.18

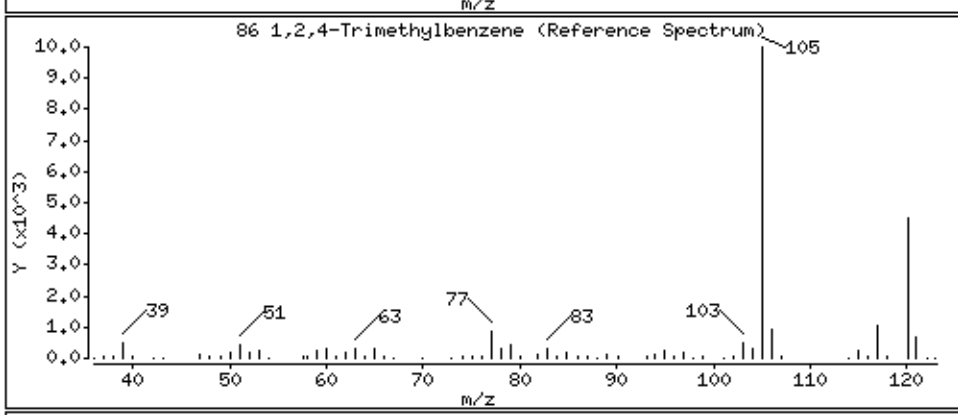
86 1,2,4-Trimethylbenzene | Concentration: 48.1 ppb

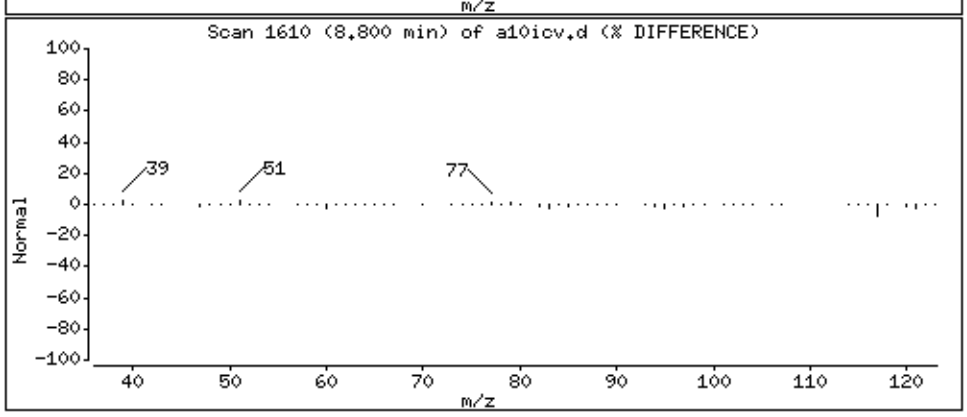












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

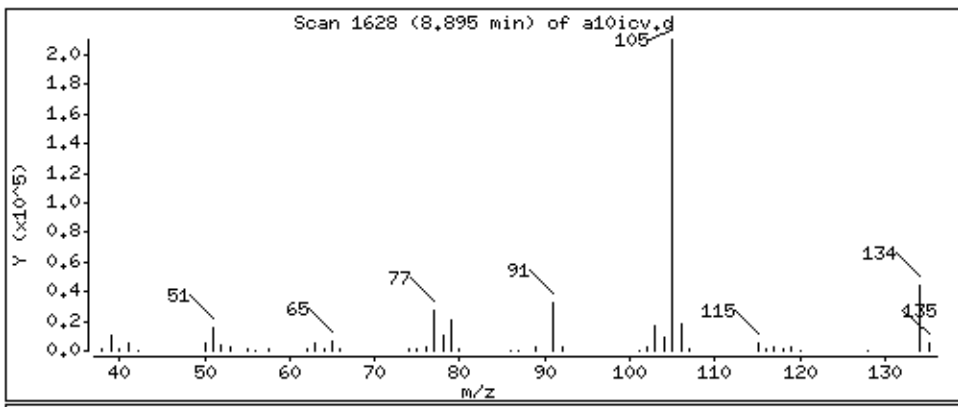
Client ID: 8260-ICV | Instrument: 50mv5a.i

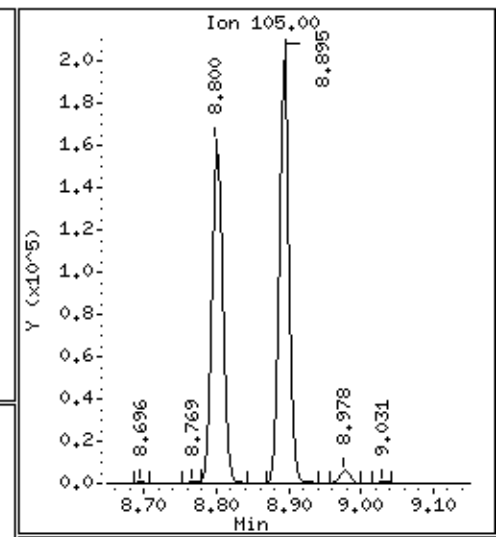
Sample Info: 8260-ICV,140022:0

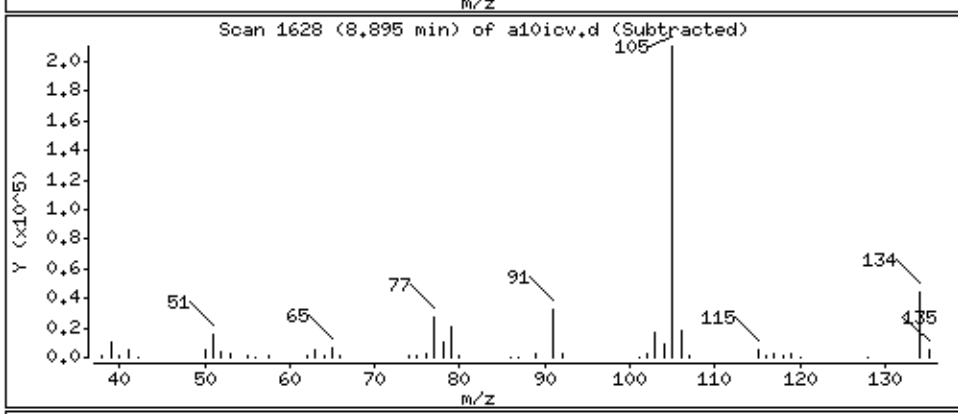
Purge Volume: 5.0 | Operator: TMW

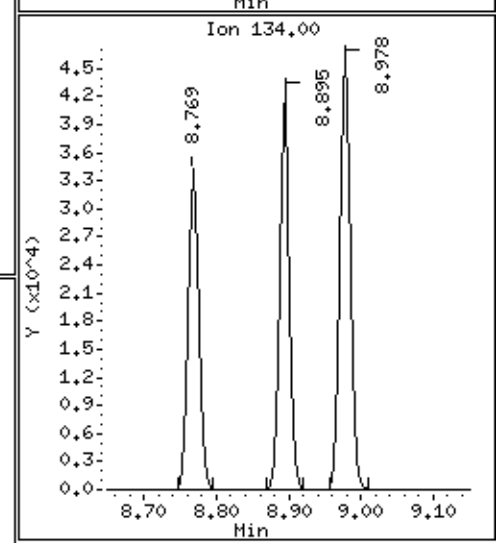
Column phase: DB-624 | Column diameter: 0.18

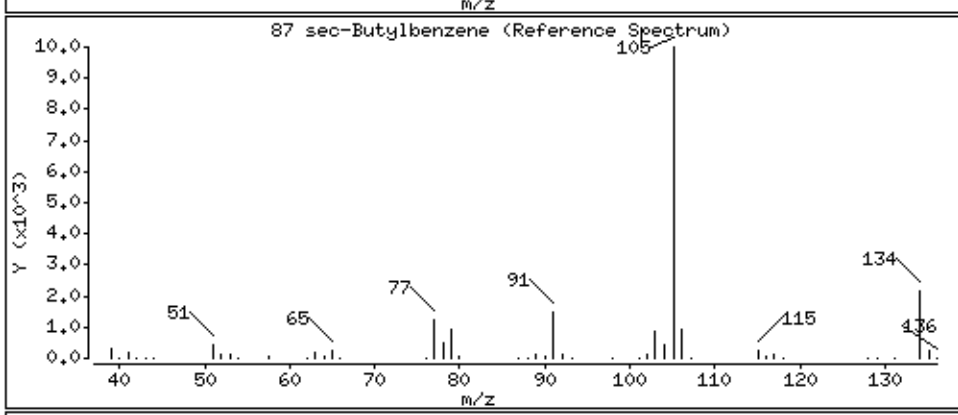
87 sec-Butylbenzene | Concentration: 45.5 ppb

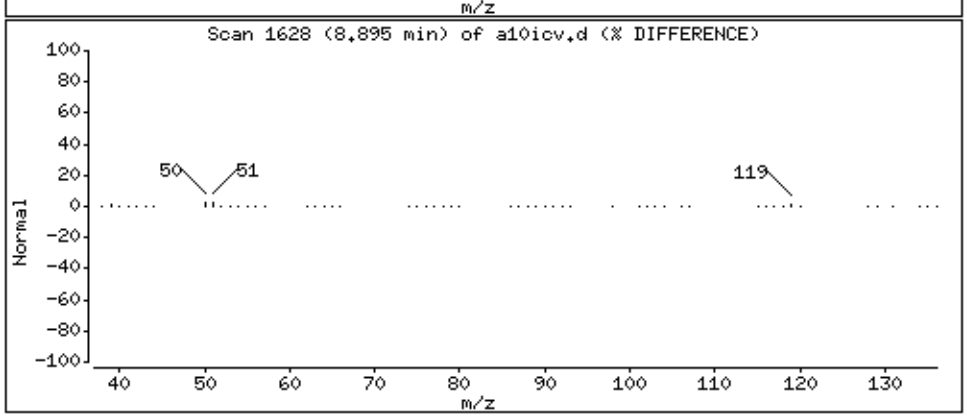












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

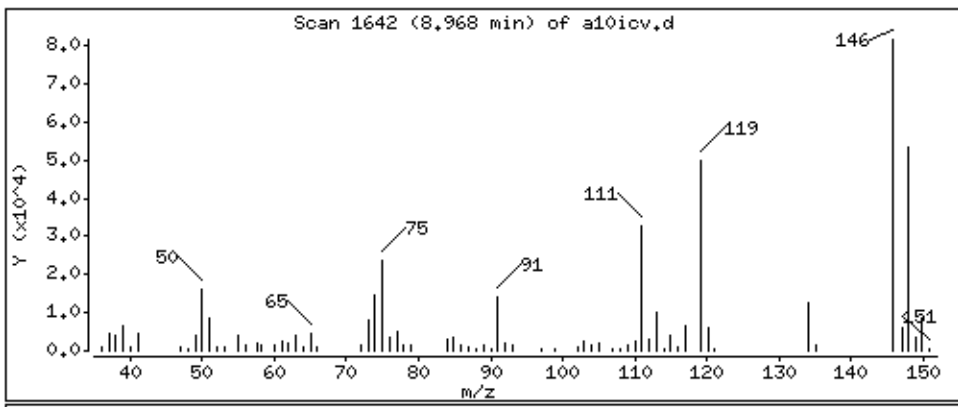
Client ID: 8260-ICV | Instrument: 50mv5a.i

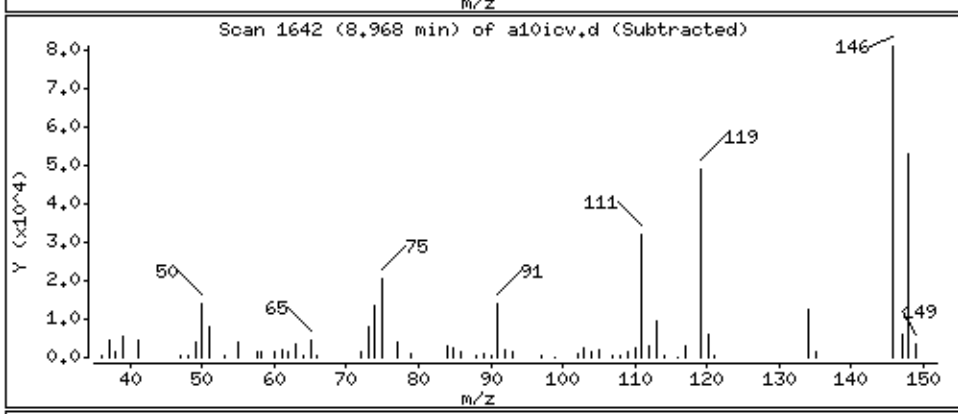
Sample Info: 8260-ICV,140022:0

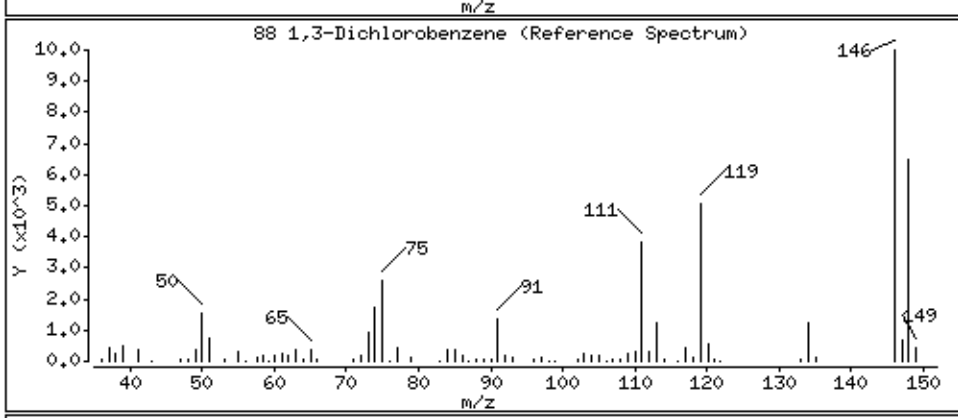
Purge Volume: 5.0 | Operator: TMW

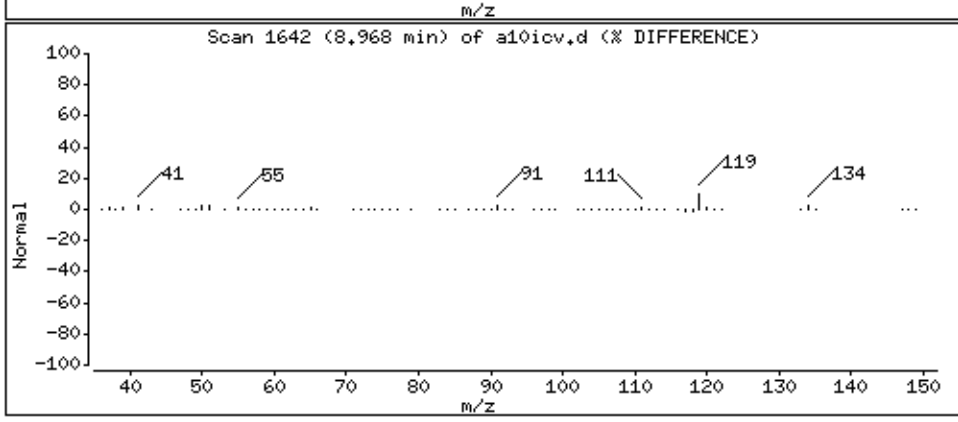
Column phase: DB-624 | Column diameter: 0.18

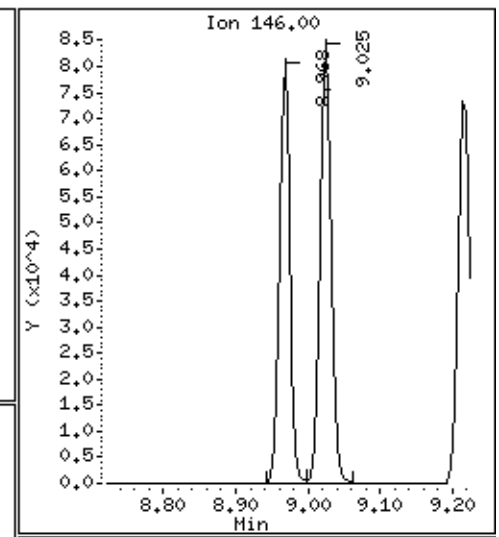
88 1,3-Dichlorobenzene | Concentration: 45.4 ppb

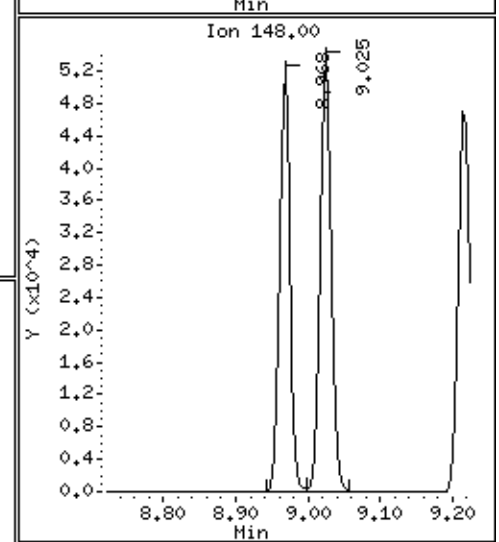


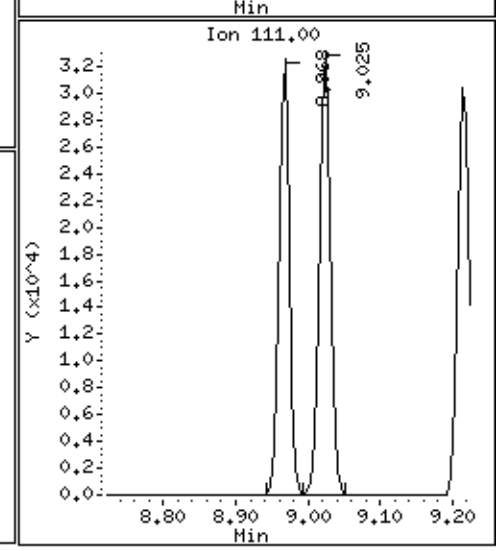












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

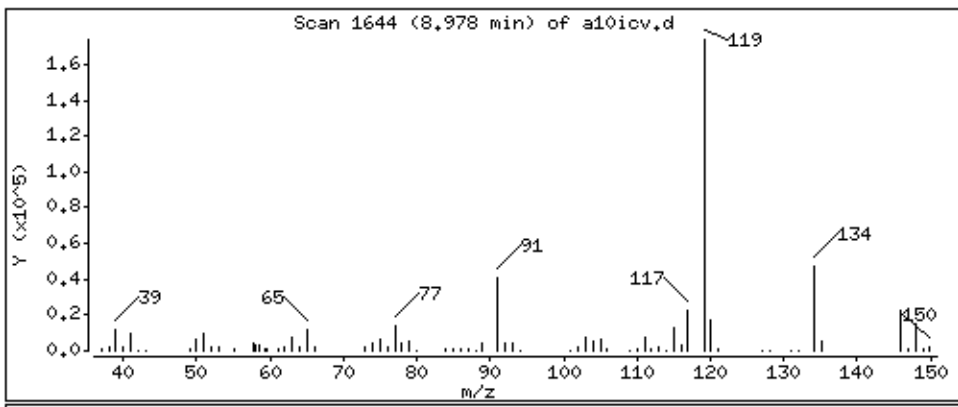
Client ID: 8260-ICV | Instrument: 50mv5a.i

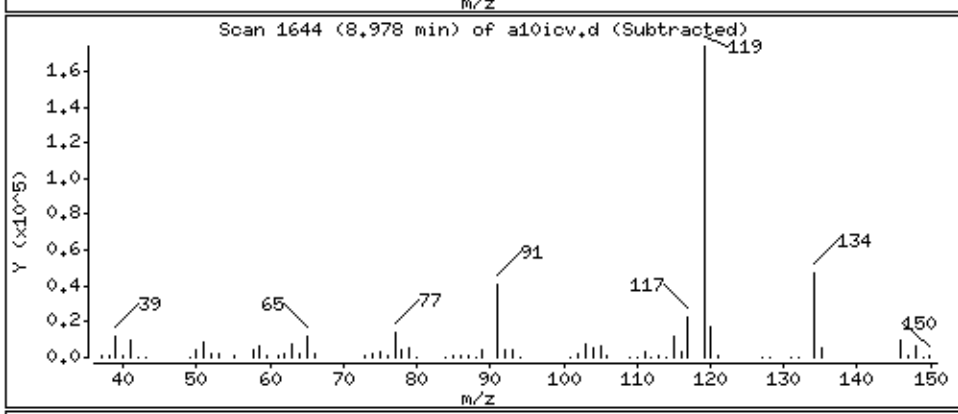
Sample Info: 8260-ICV,140022:0

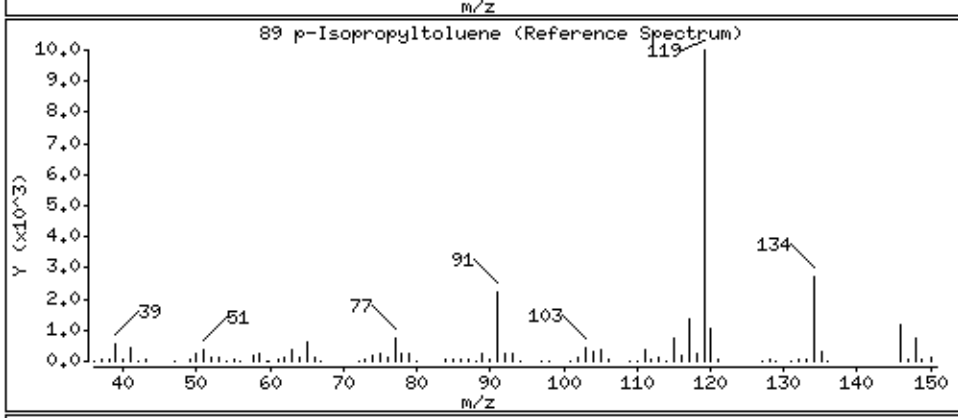
Purge Volume: 5.0 | Operator: TMW

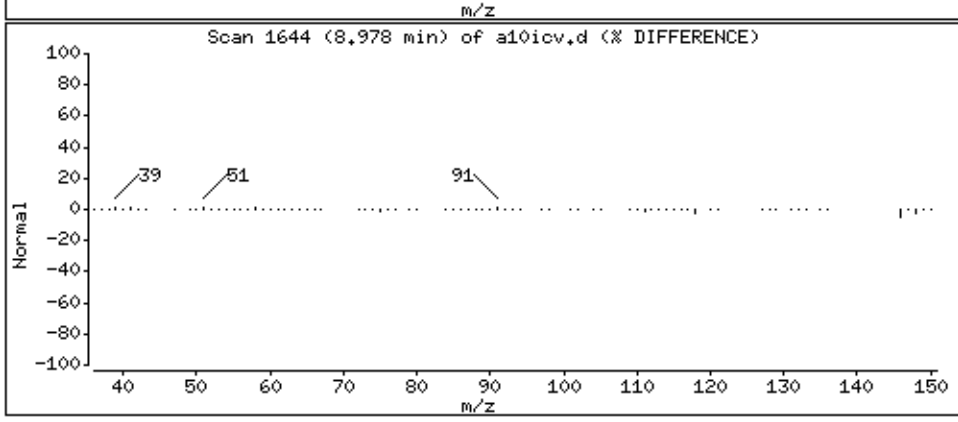
Column phase: DB-624 | Column diameter: 0.18

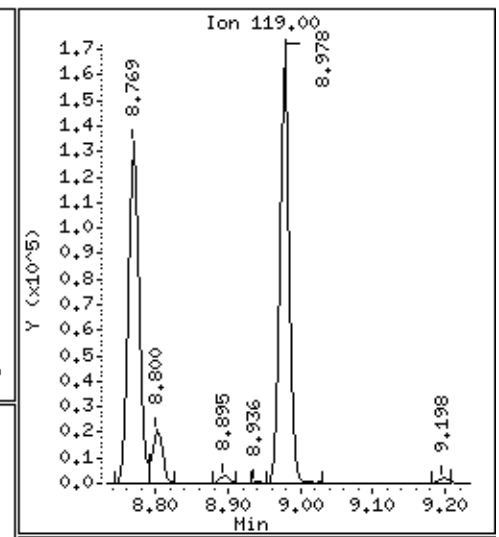
89 p-Isopropyltoluene | Concentration: 45.8 ppb

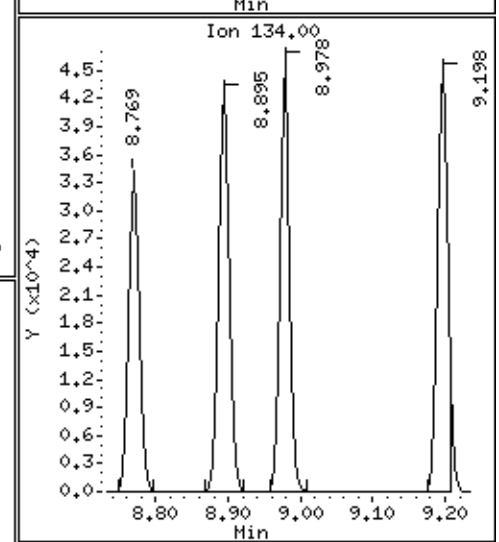


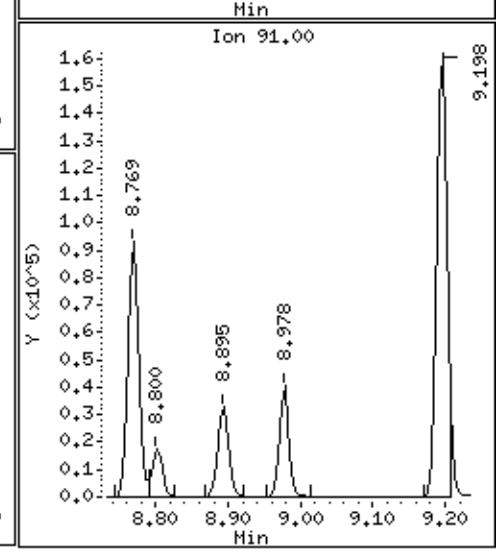












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

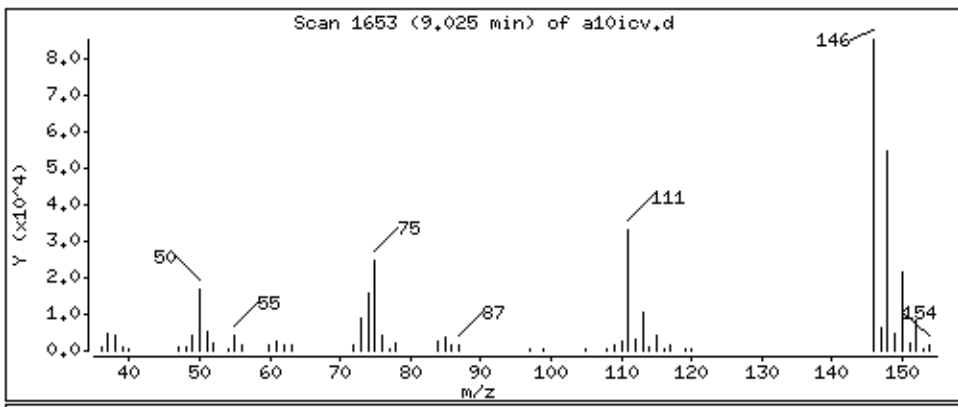
Client ID: 8260-ICV | Instrument: 50mv5a.i

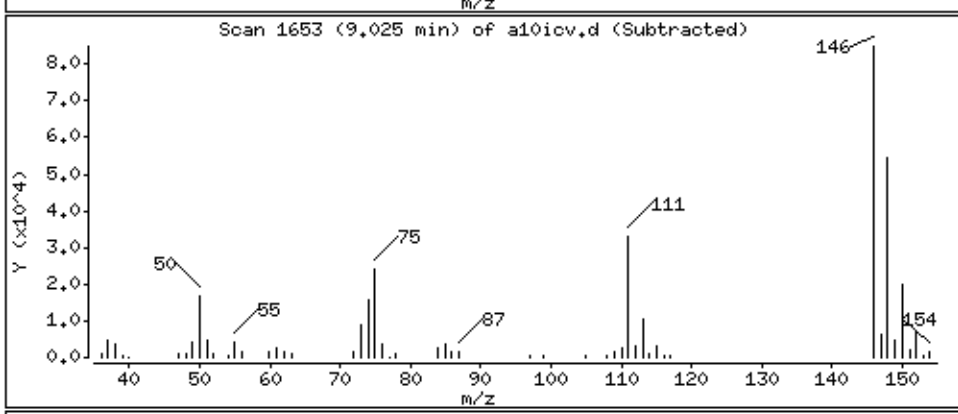
Sample Info: 8260-ICV,140022:0

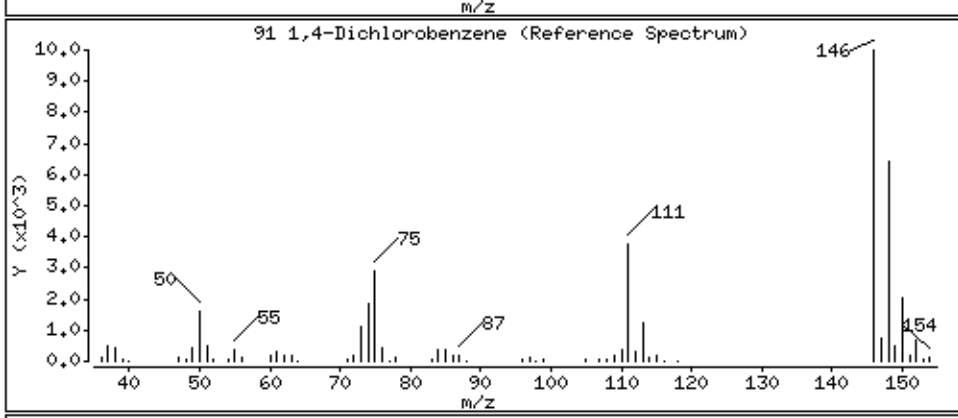
Purge Volume: 5.0 | Operator: TMW

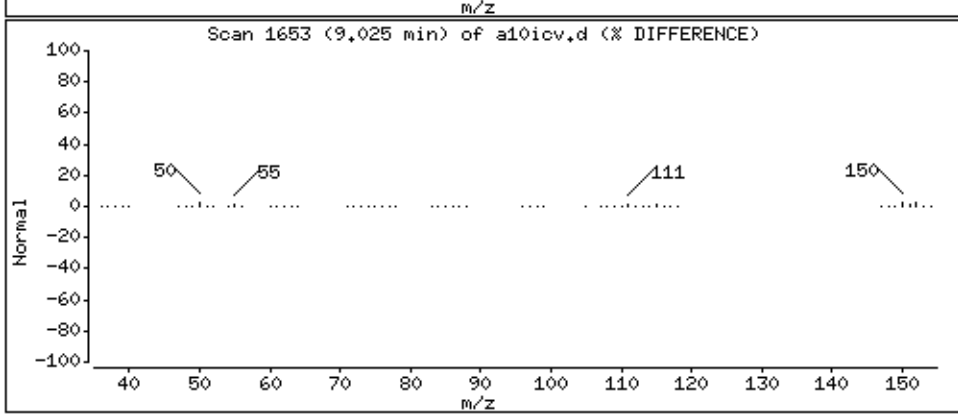
Column phase: DB-624 | Column diameter: 0.18

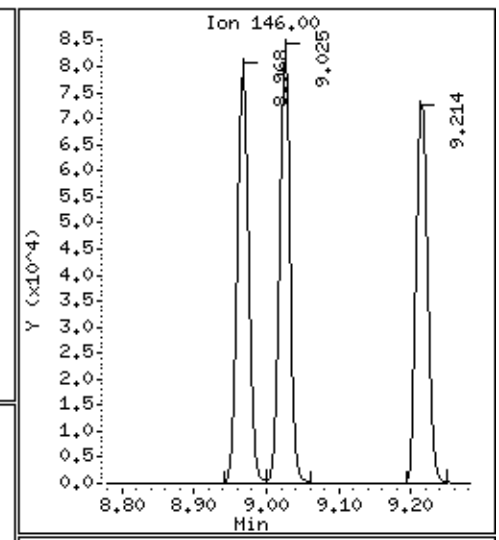
91 1,4-Dichlorobenzene | Concentration: 46.3 ppb

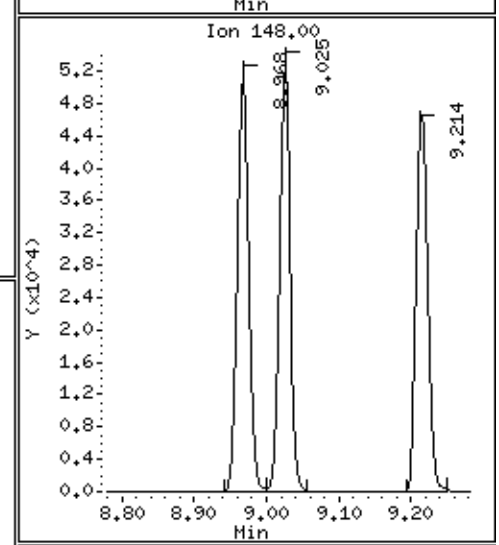


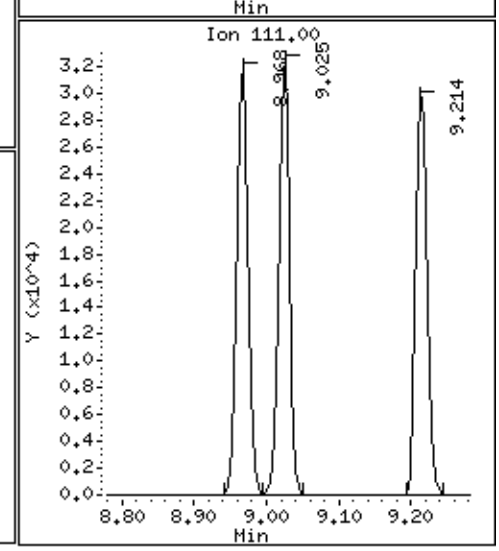












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

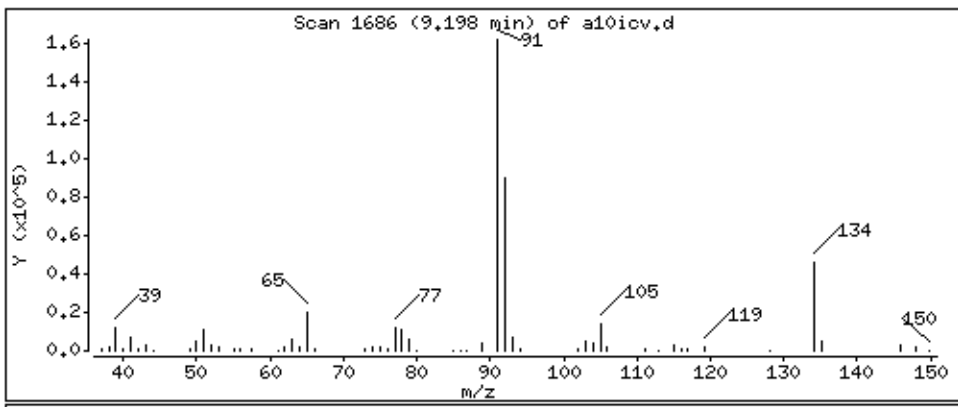
Client ID: 8260-ICV | Instrument: 50mv5a.i

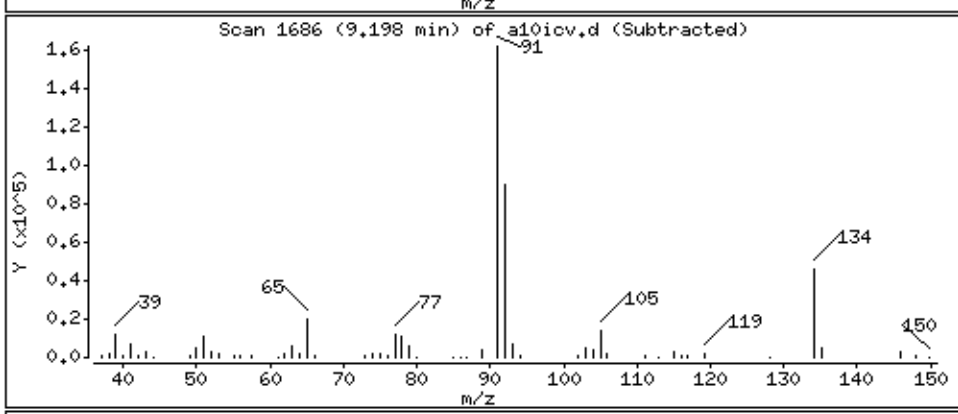
Sample Info: 8260-ICV,140022:0

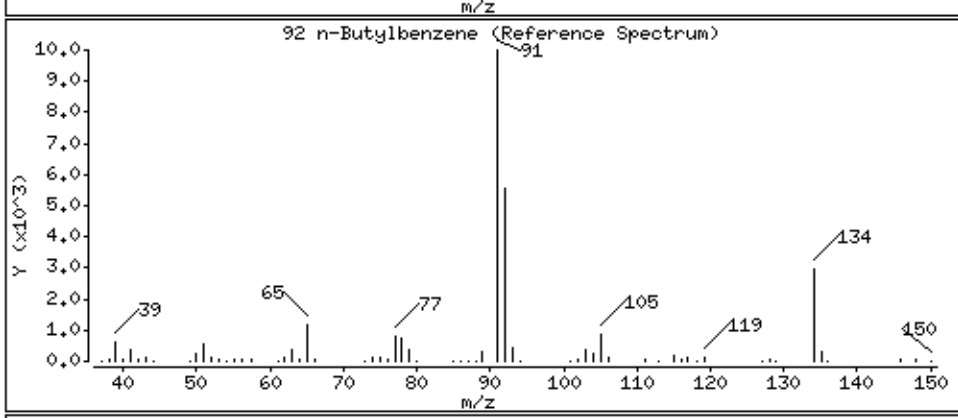
Purge Volume: 5.0 | Operator: TMW

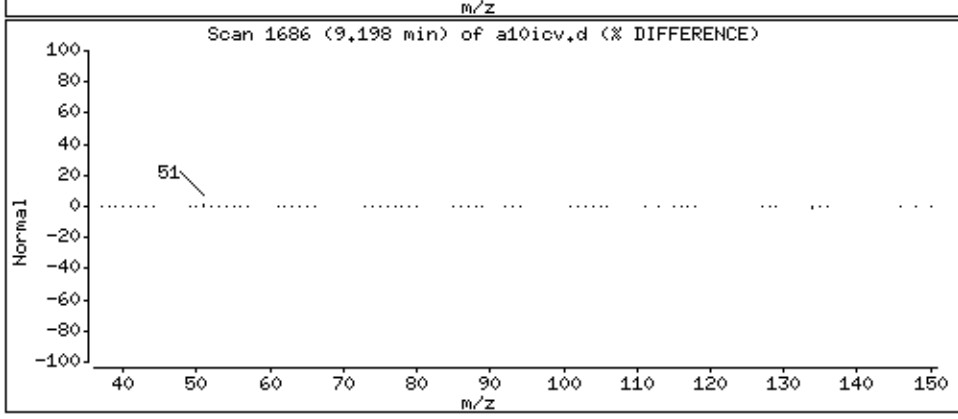
Column phase: DB-624 | Column diameter: 0.18

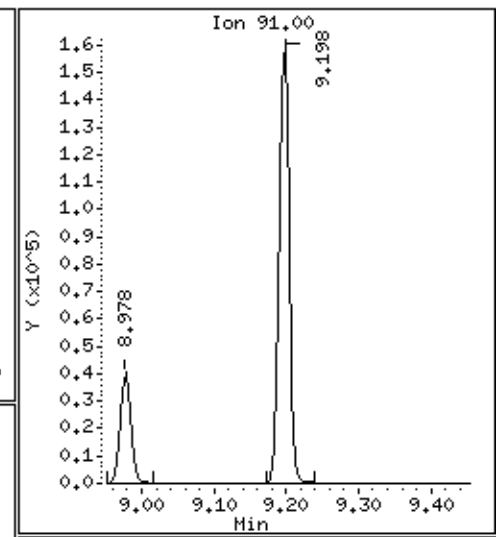
92 n-Butylbenzene | Concentration: 45.8 ppb

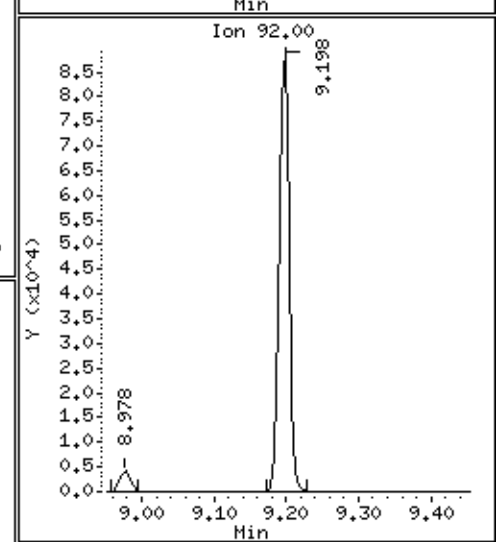


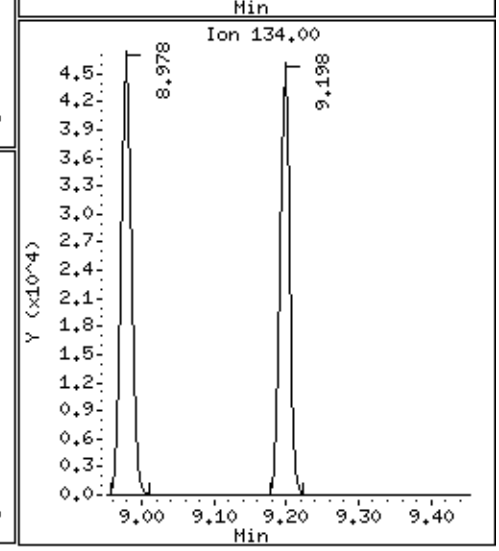












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

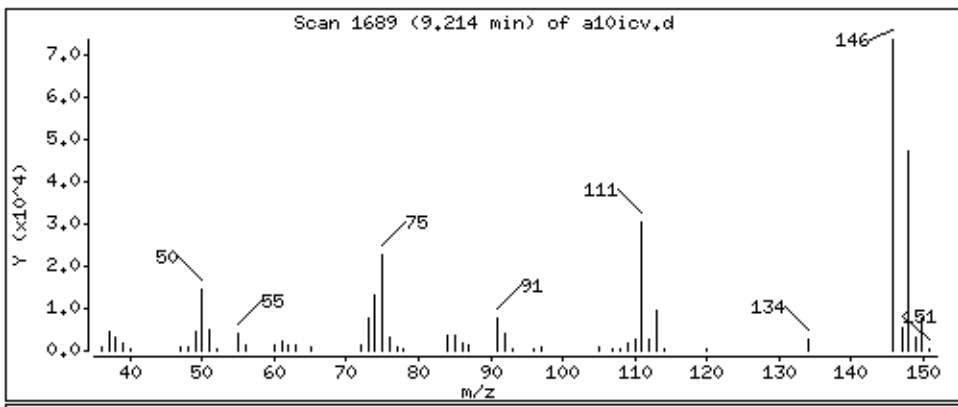
Client ID: 8260-ICV | Instrument: 50mv5a.i

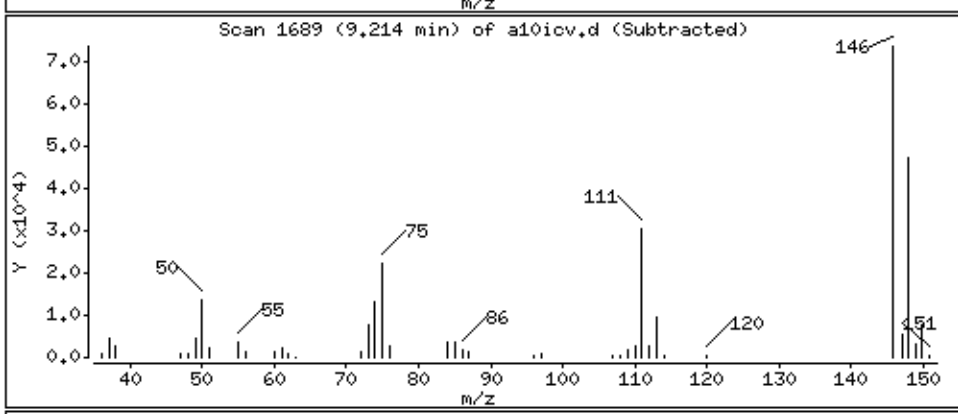
Sample Info: 8260-ICV,140022:0

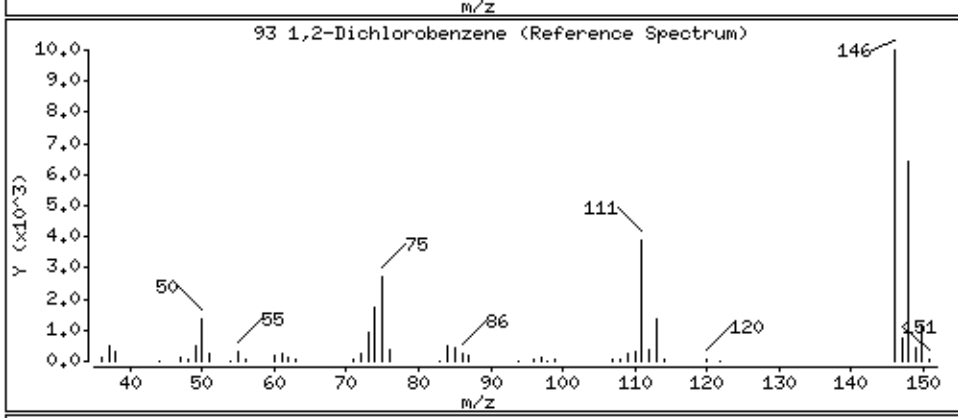
Purge Volume: 5.0 | Operator: TMW

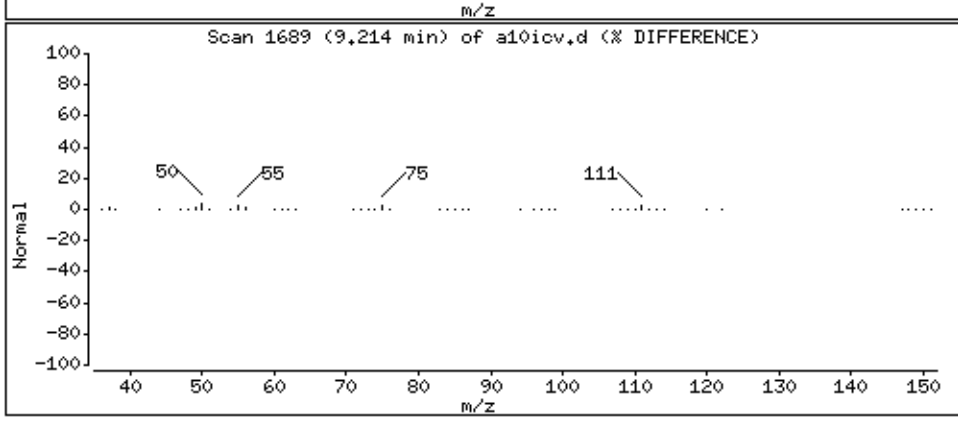
Column phase: DB-624 | Column diameter: 0.18

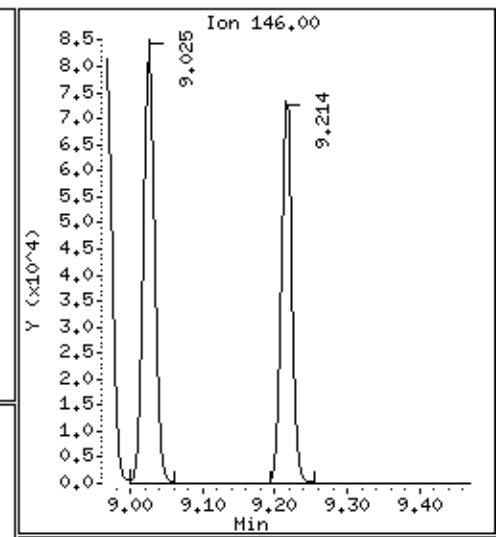
93 1,2-Dichlorobenzene | Concentration: 44.6 ppb

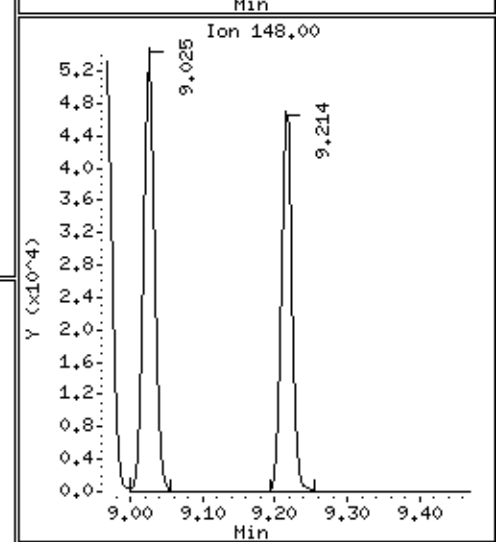


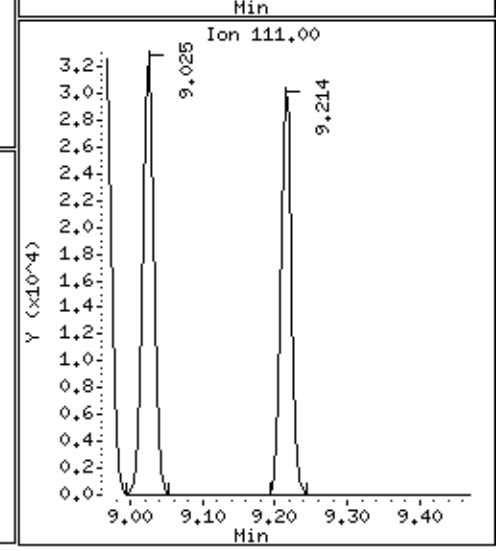












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

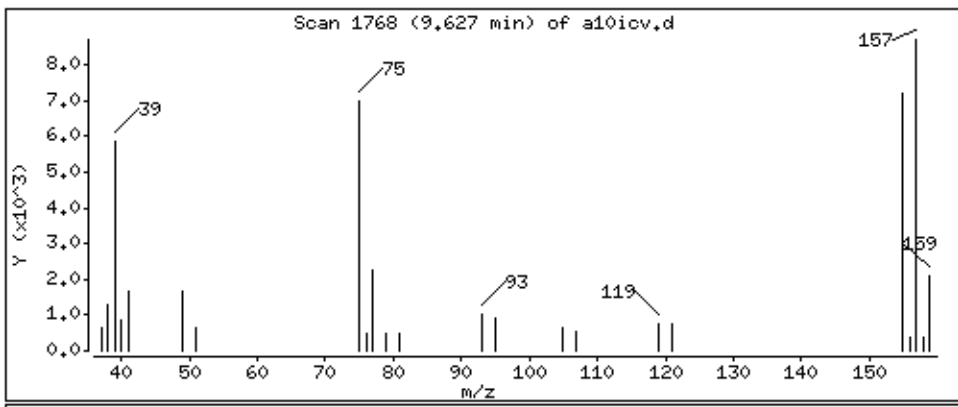
Client ID: 8260-ICV | Instrument: 50mv5a.i

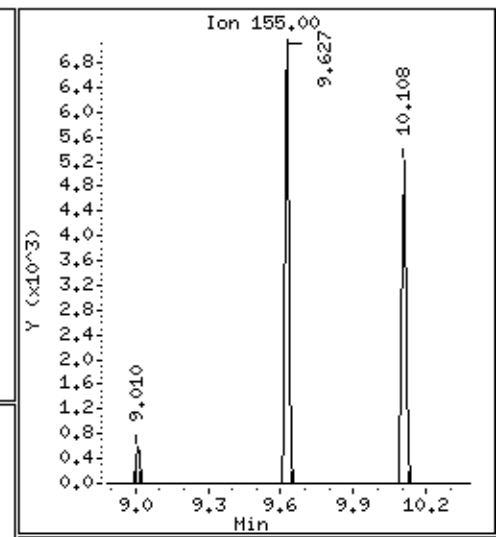
Sample Info: 8260-ICV,140022:0

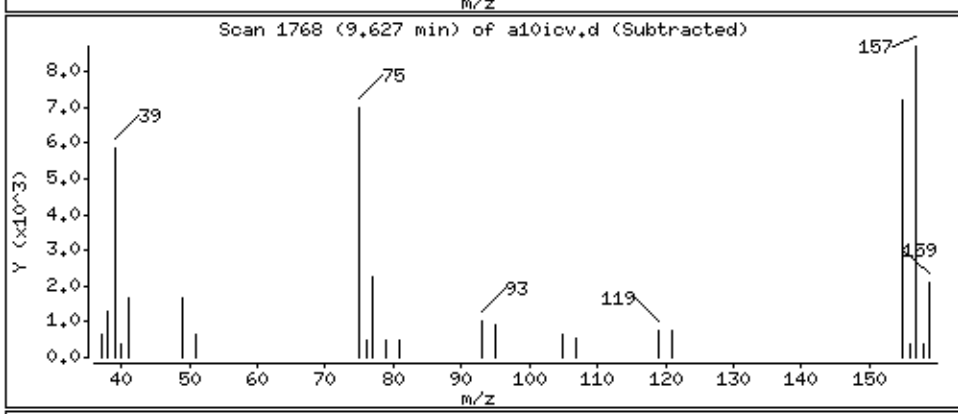
Purge Volume: 5.0 | Operator: TMW

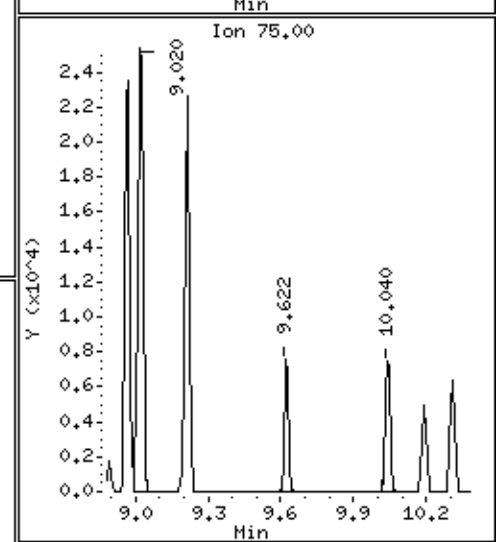
Column phase: DB-624 | Column diameter: 0.18

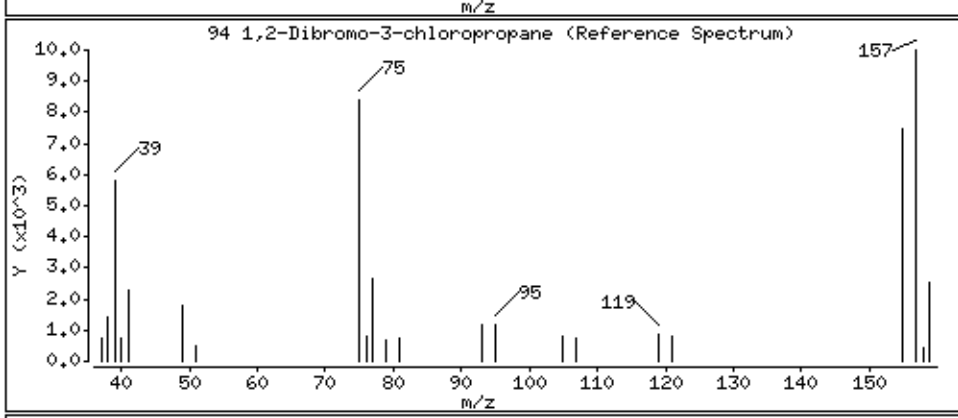
94 1,2-Dibromo-3-chloropropane | Concentration: 47.1 ppb

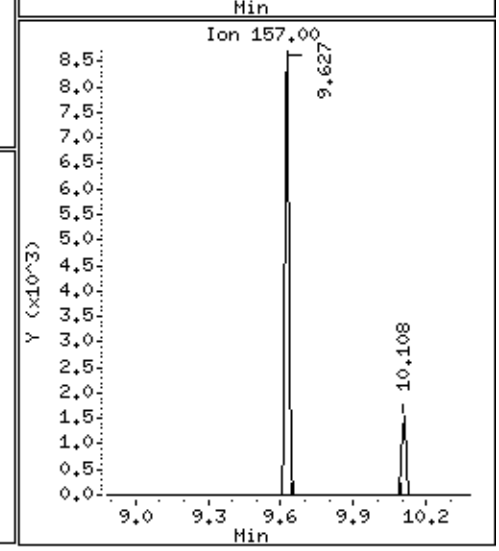


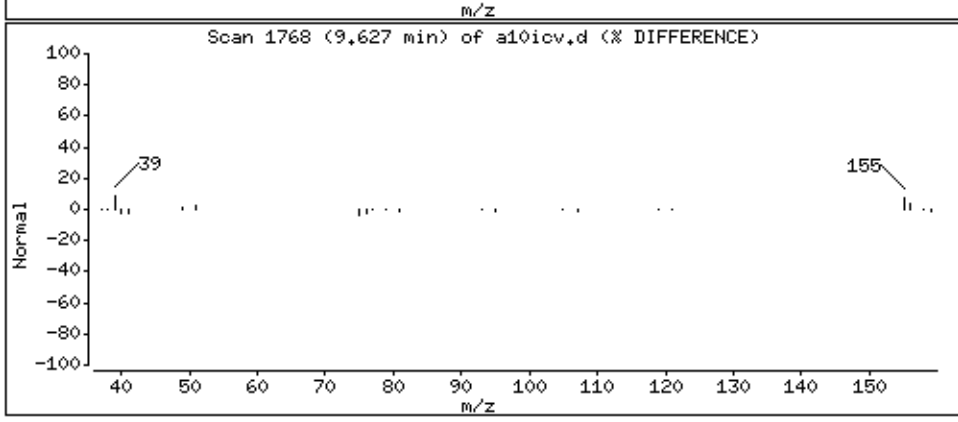












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

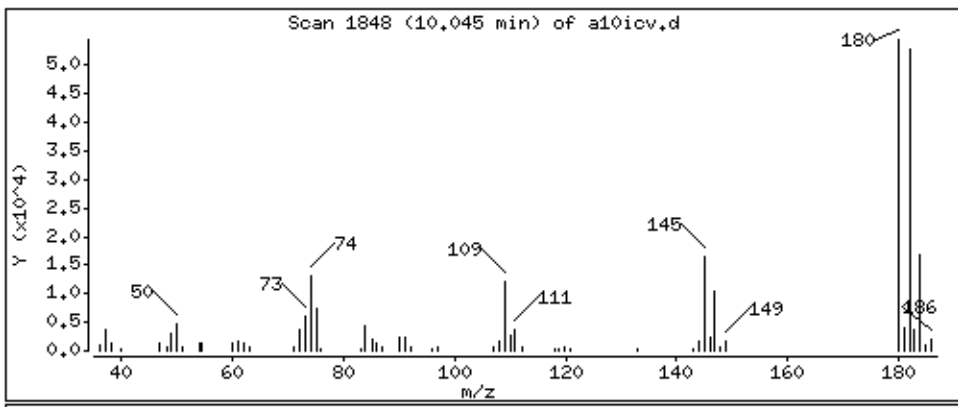
Client ID: 8260-ICV | Instrument: 50mv5a.i

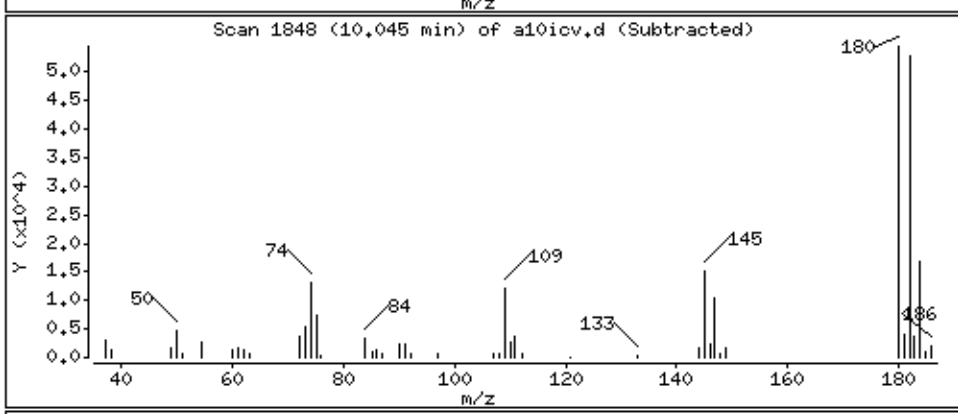
Sample Info: 8260-ICV,140022:0

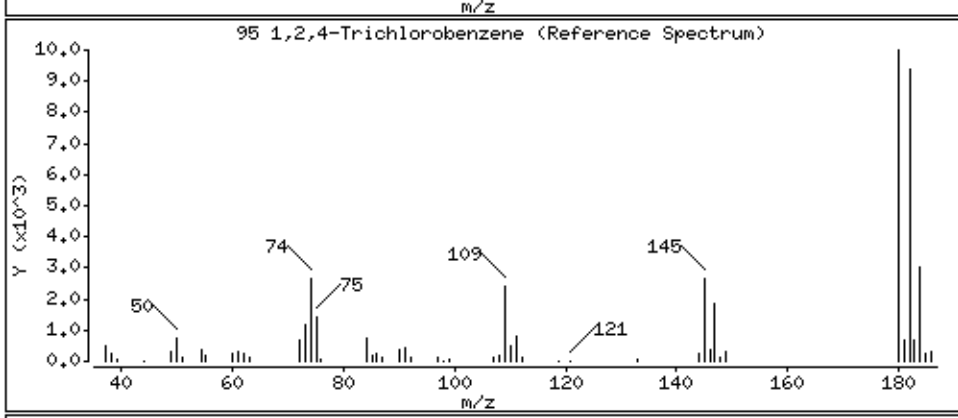
Purge Volume: 5.0 | Operator: TMW

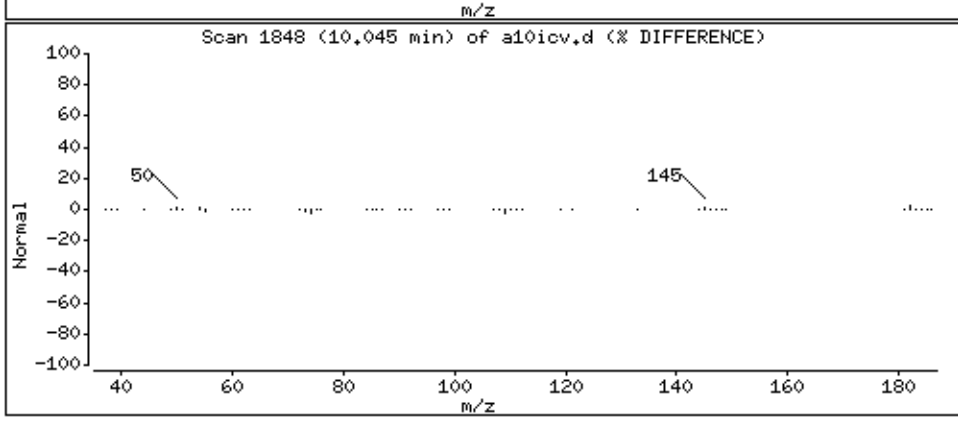
Column phase: DB-624 | Column diameter: 0.18

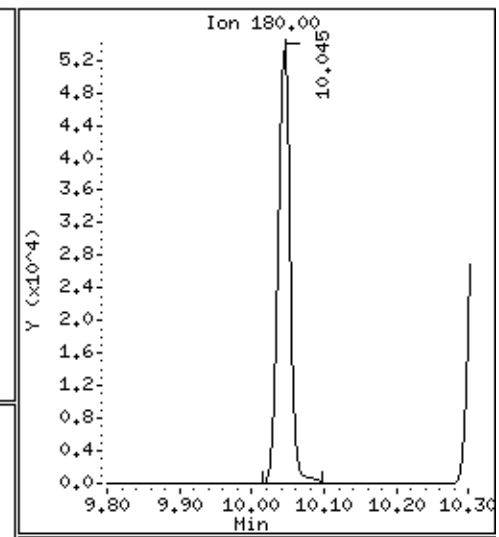
95 1,2,4-Trichlorobenzene | Concentration: 45.2 ppb

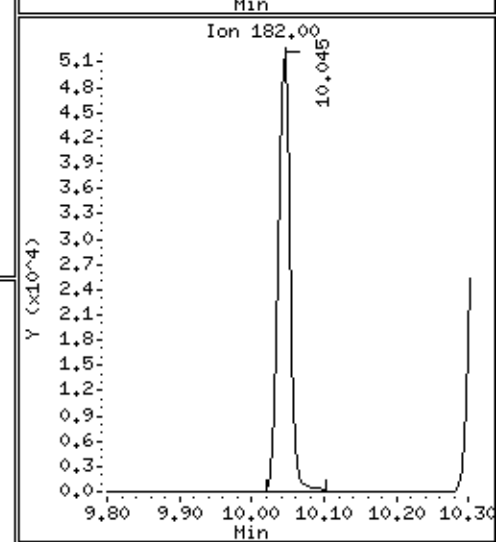


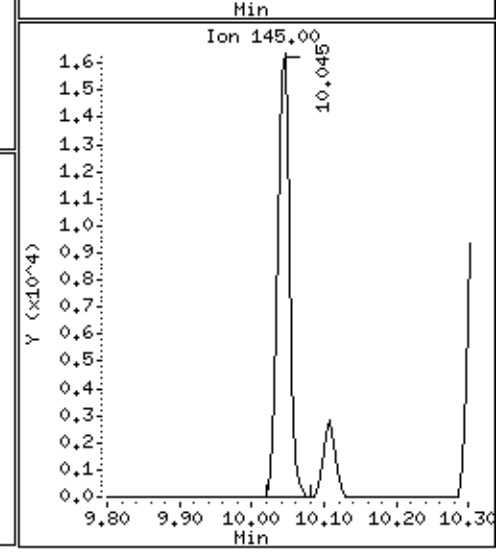












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

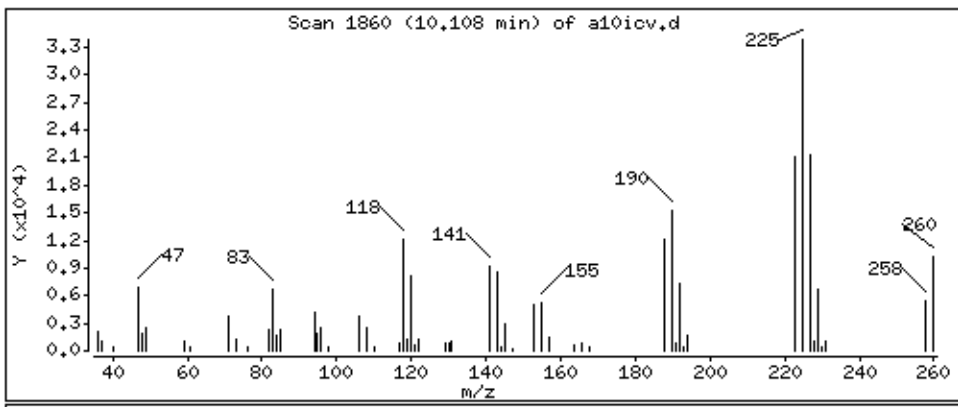
Client ID: 8260-ICV | Instrument: 50mv5a.i

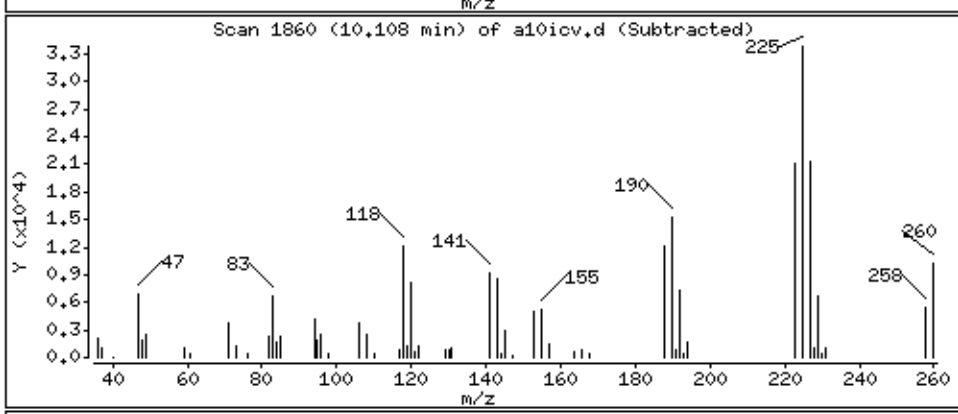
Sample Info: 8260-ICV,140022:0

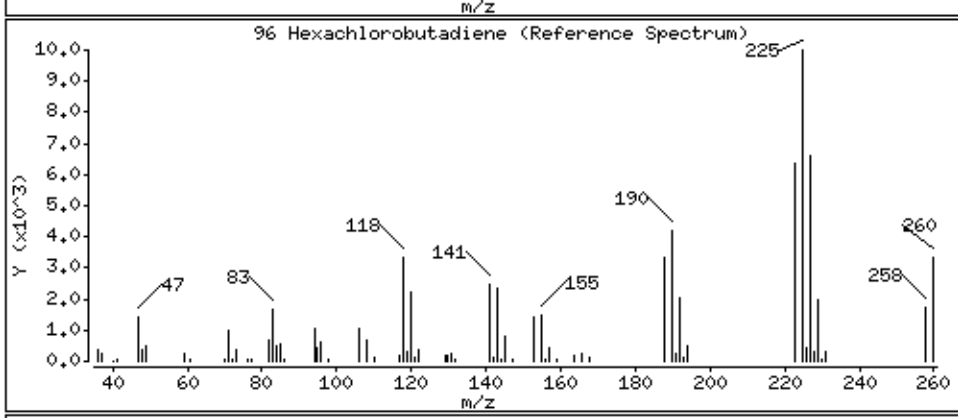
Purge Volume: 5.0 | Operator: TMW

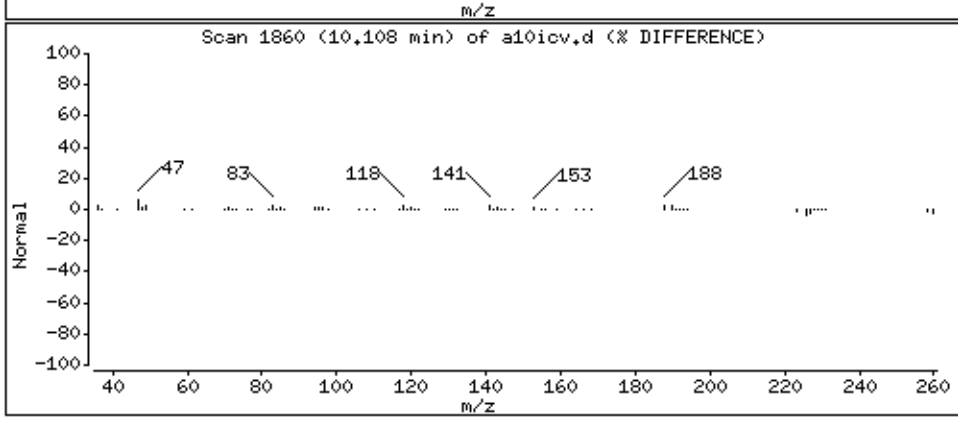
Column phase: DB-624 | Column diameter: 0.18

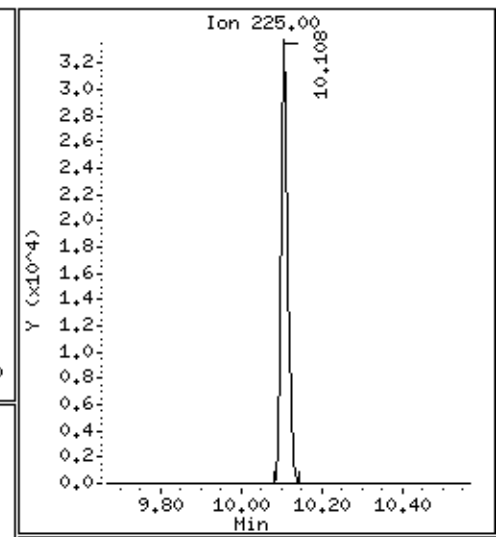
96 Hexachlorobutadiene | Concentration: 44.8 ppb

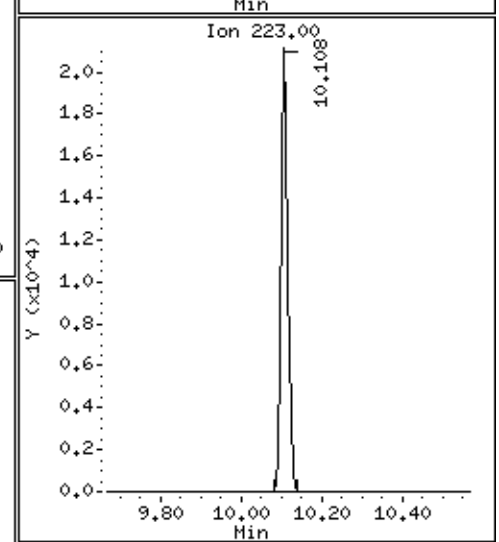


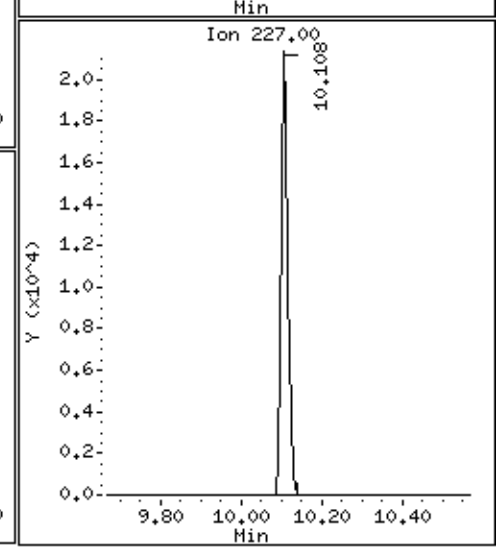












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

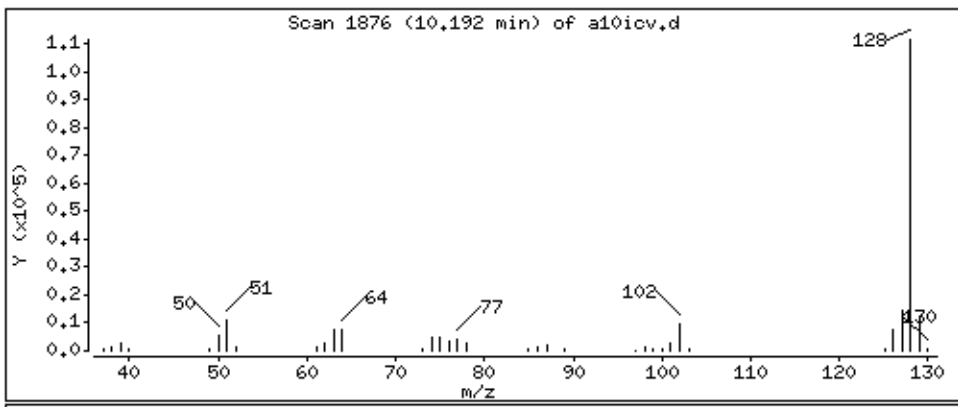
Client ID: 8260-ICV | Instrument: 50mv5a.i

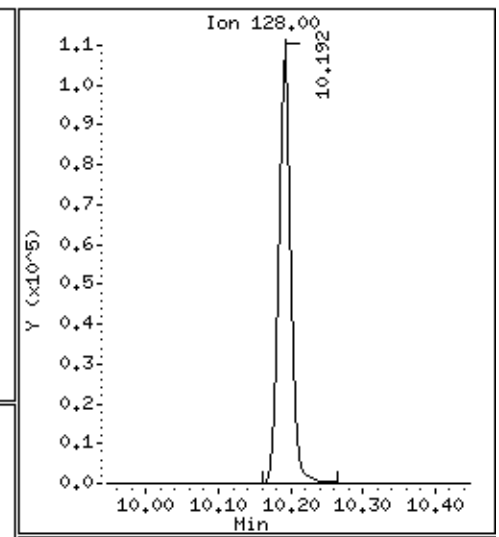
Sample Info: 8260-ICV,140022:0

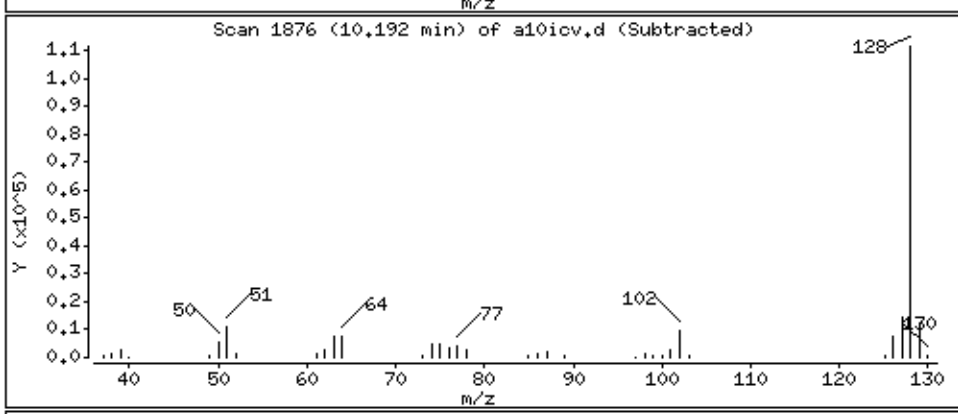
Purge Volume: 5.0 | Operator: TMW

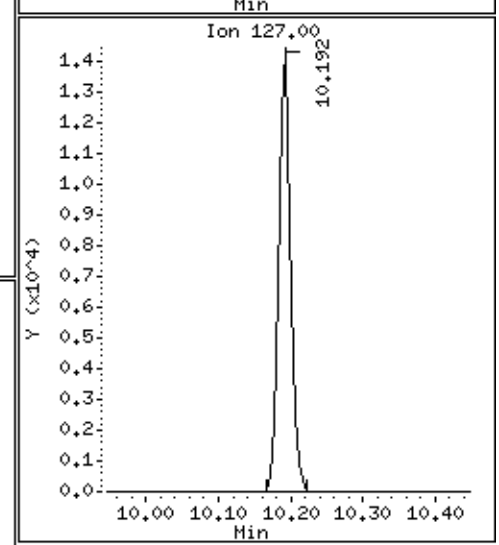
Column phase: DB-624 | Column diameter: 0.18

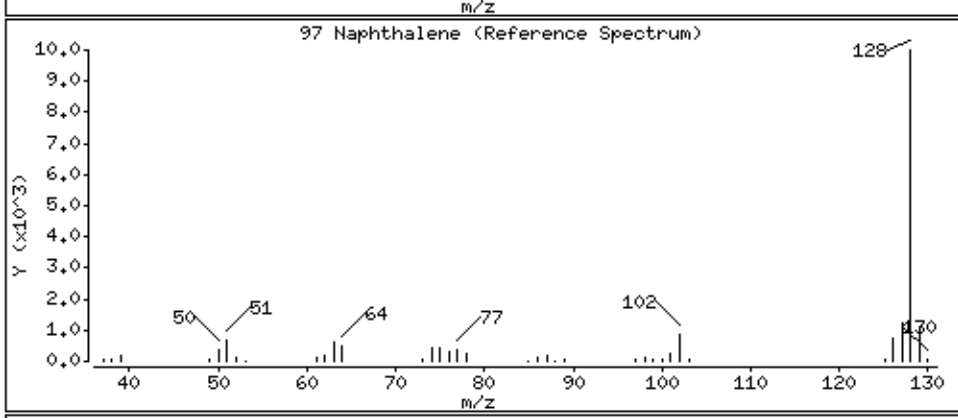
97 Naphthalene | Concentration: 42.6 ppb

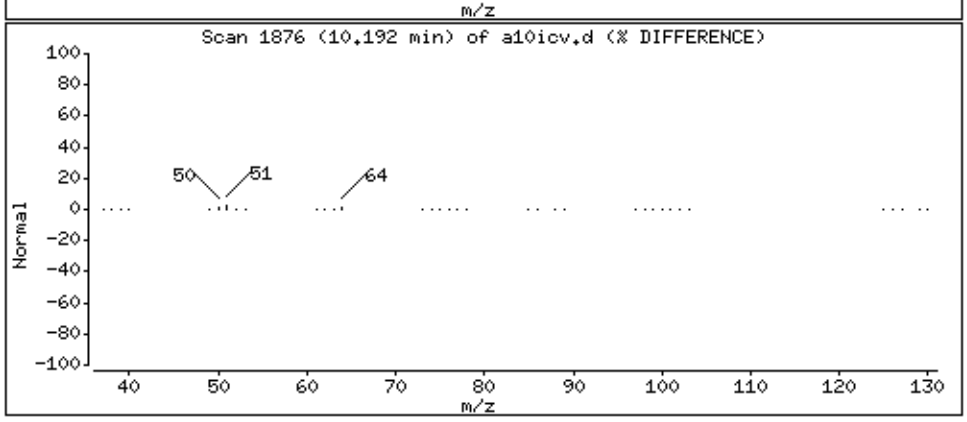












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

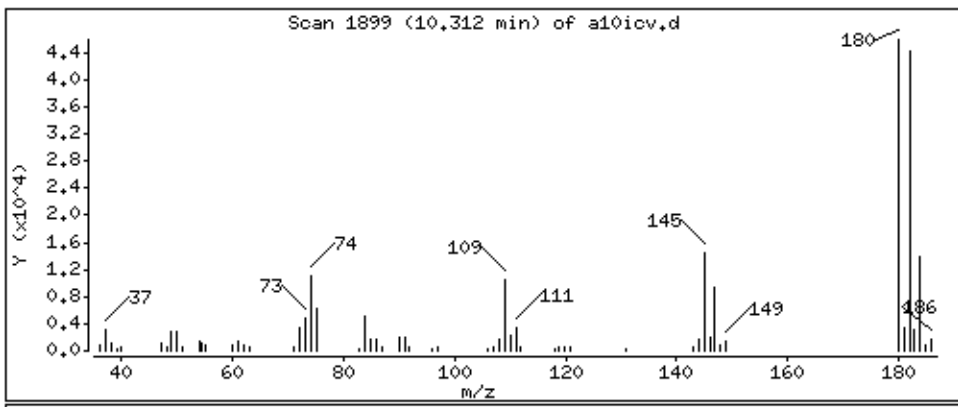
Client ID: 8260-ICV | Instrument: 50mv5a.i

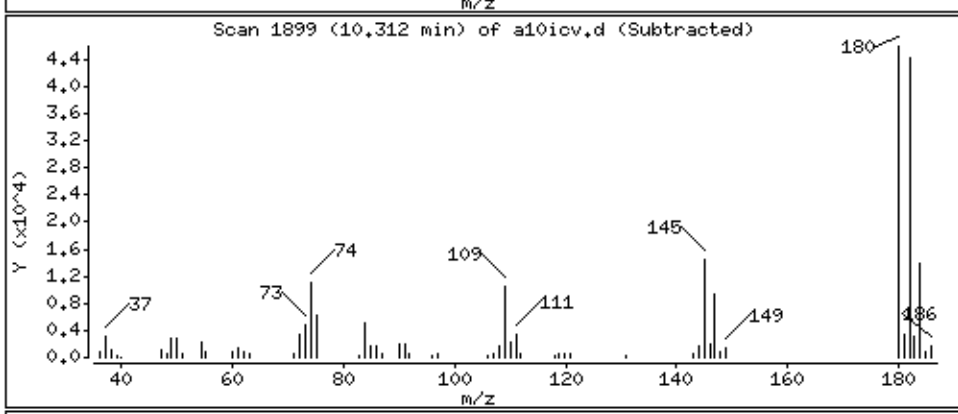
Sample Info: 8260-ICV,140022:0

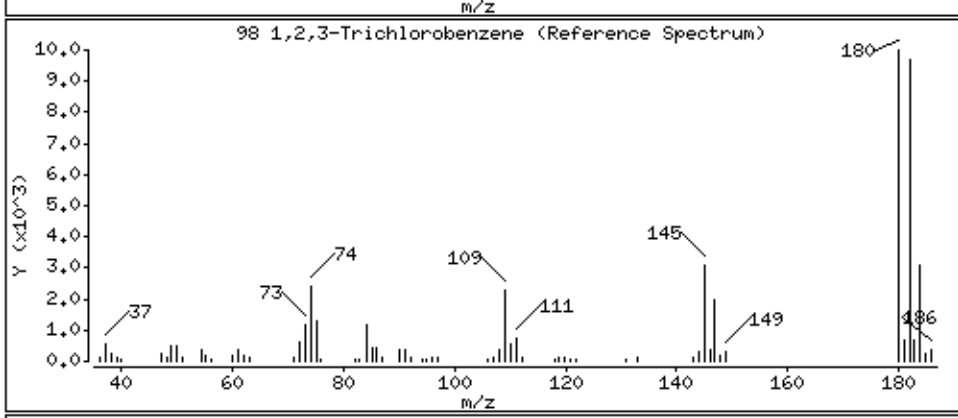
Purge Volume: 5.0 | Operator: TMW

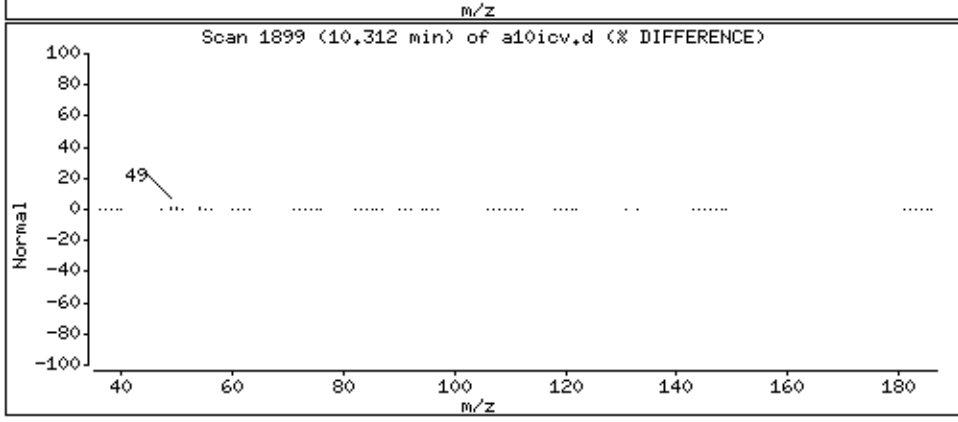
Column phase: DB-624 | Column diameter: 0.18

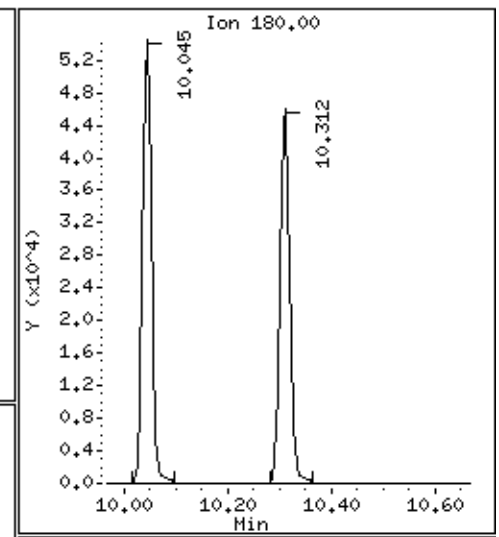
98 1,2,3-Trichlorobenzene | Concentration: 42.6 ppb

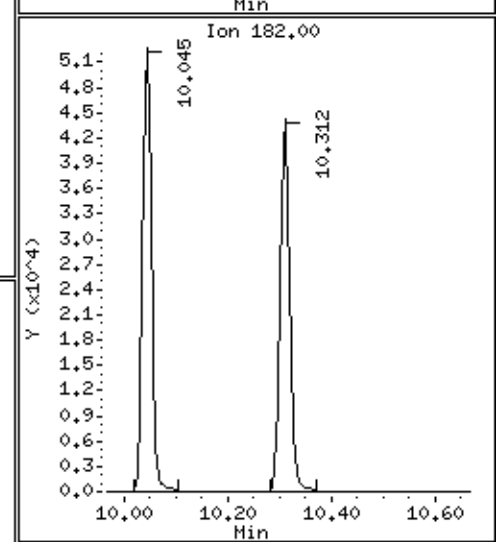


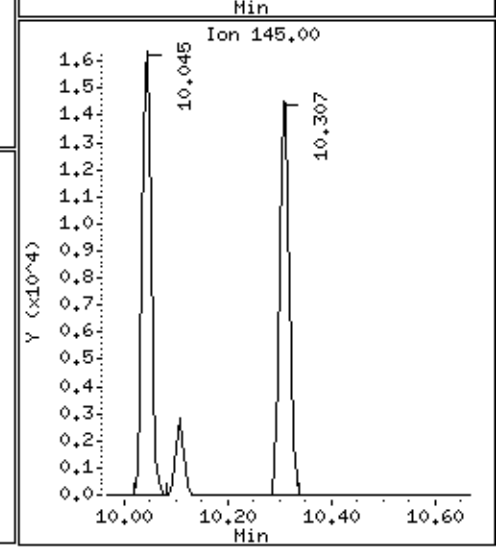












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

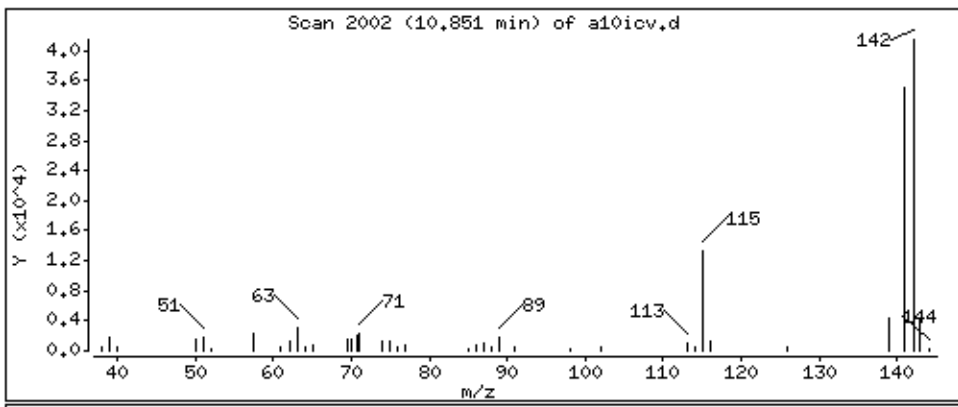
Client ID: 8260-ICV | Instrument: 50mv5a.i

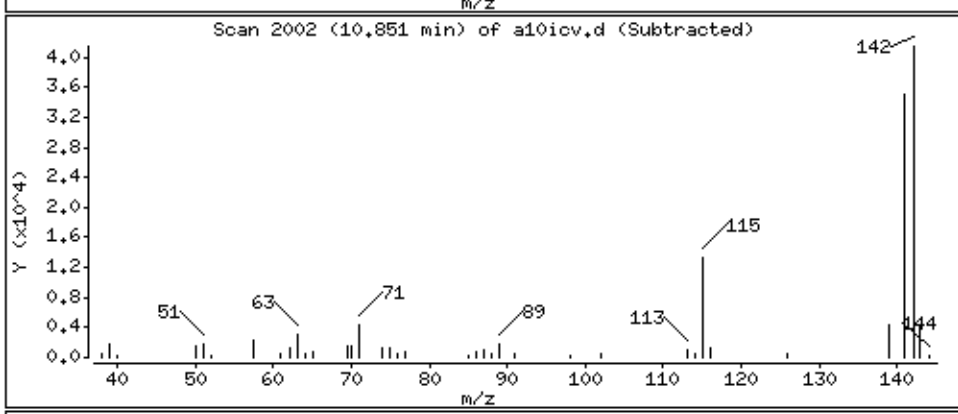
Sample Info: 8260-ICV,140022:0

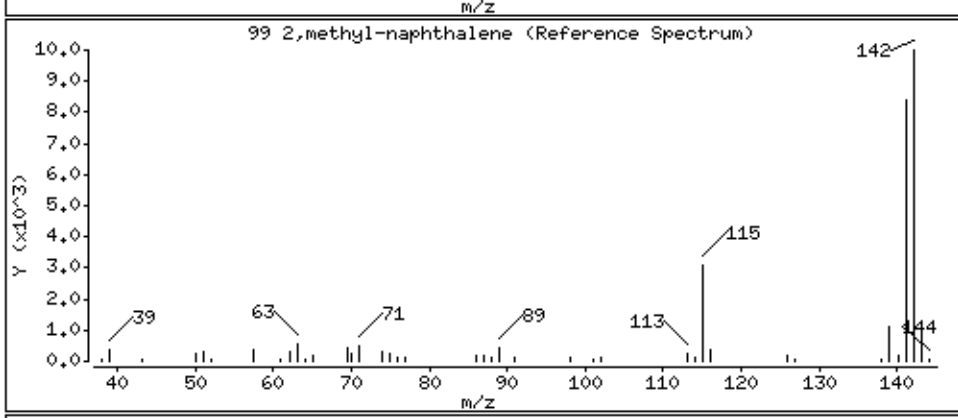
Purge Volume: 5.0 | Operator: TMW

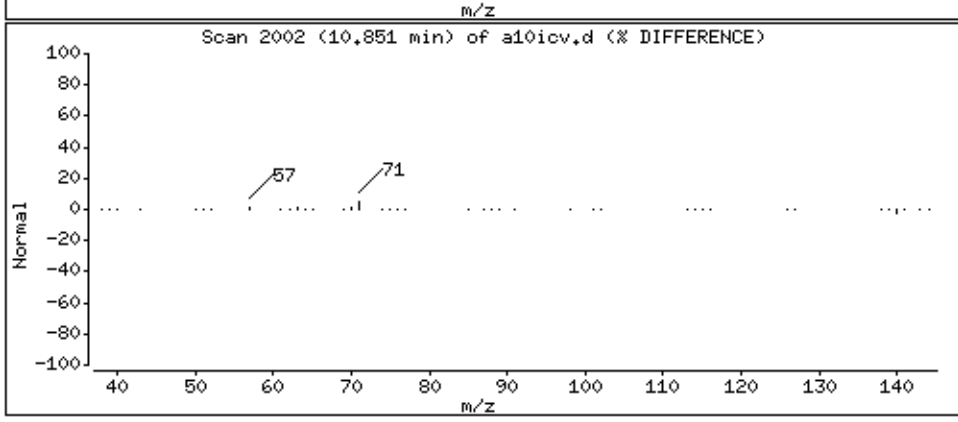
Column phase: DB-624 | Column diameter: 0.18

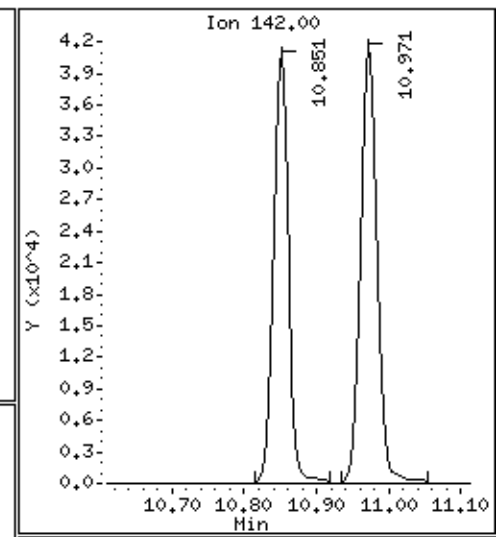
99 2,methyl-naphthalene | Concentration: 40.6 ppb

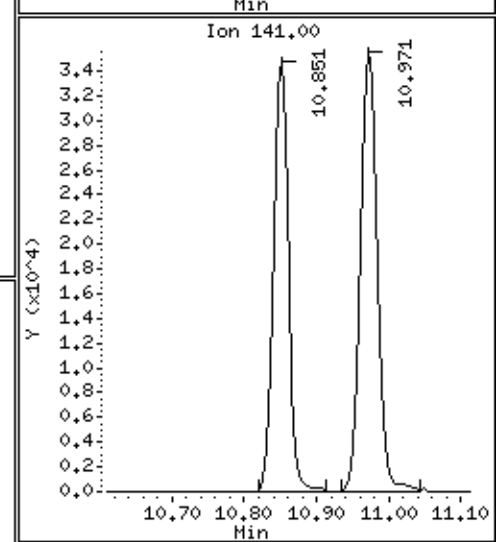


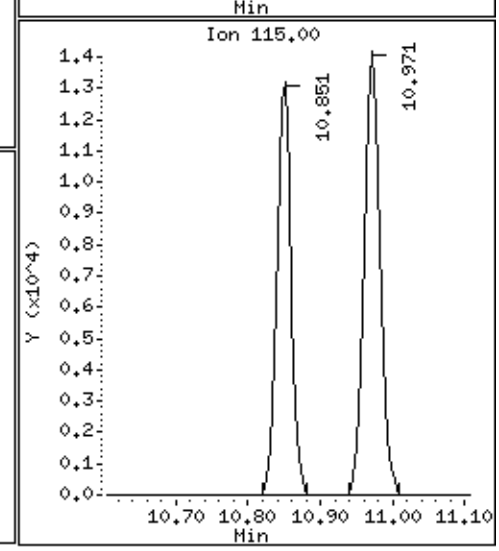












Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a10icv.d

Date : 16-JAN-2017 18:29

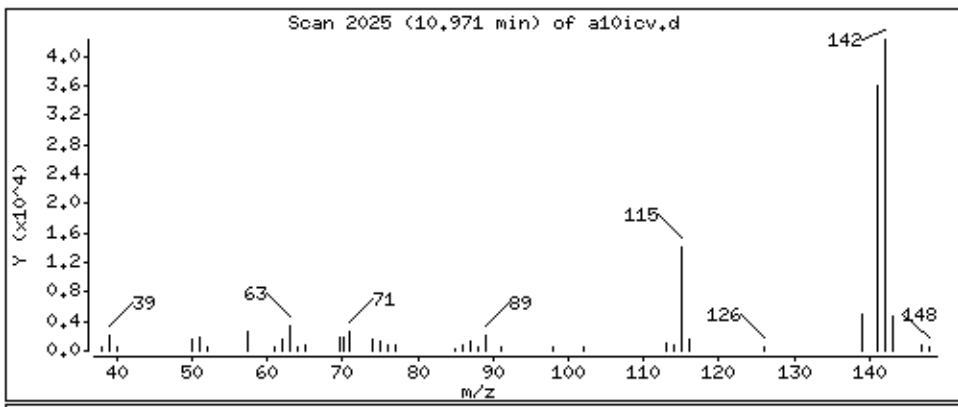
Client ID: 8260-ICV | Instrument: 50mv5a.i

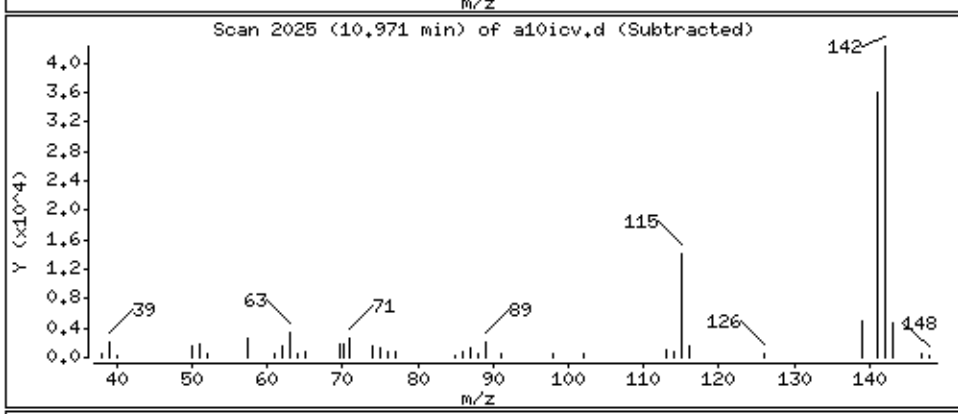
Sample Info: 8260-ICV,140022:0

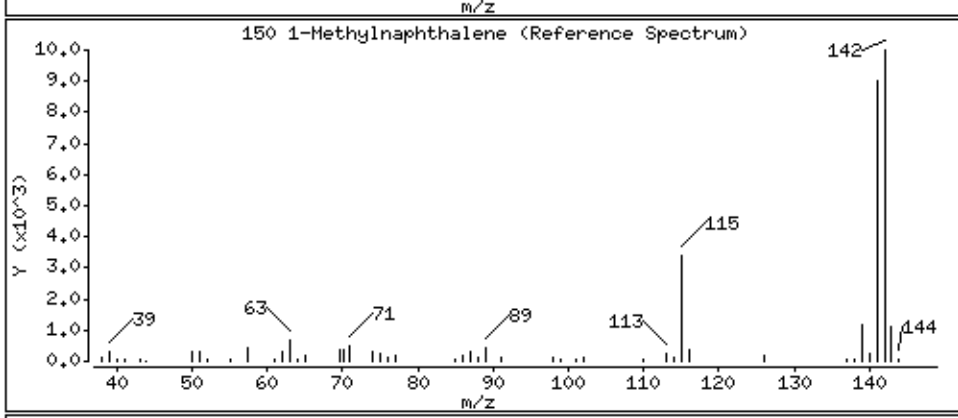
Purge Volume: 5.0 | Operator: TMW

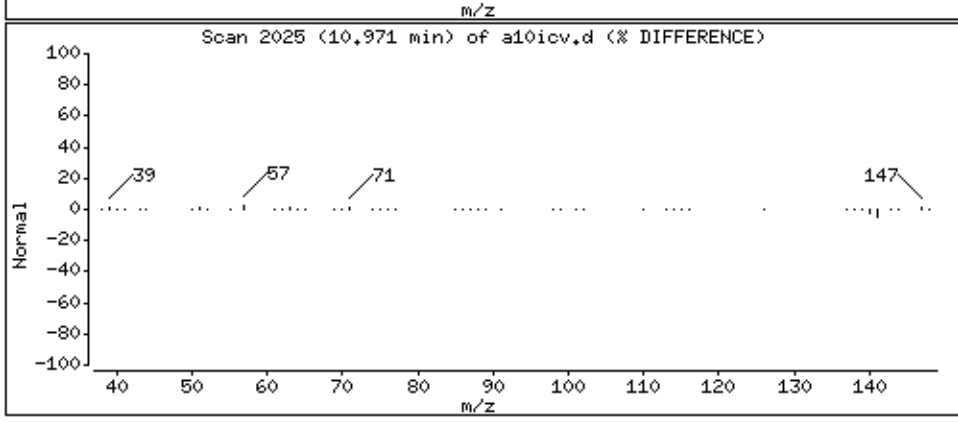
Column phase: DB-624 | Column diameter: 0.18

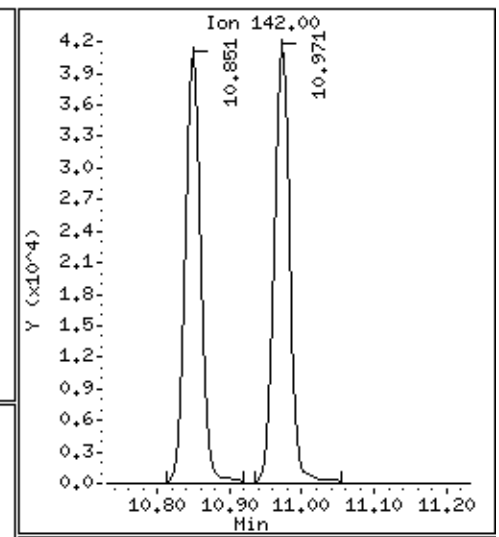
150 1-Methylnaphthalene | Concentration: 48.8 ppb

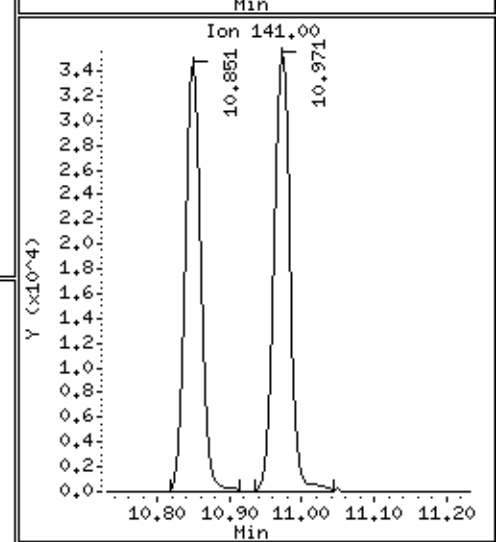


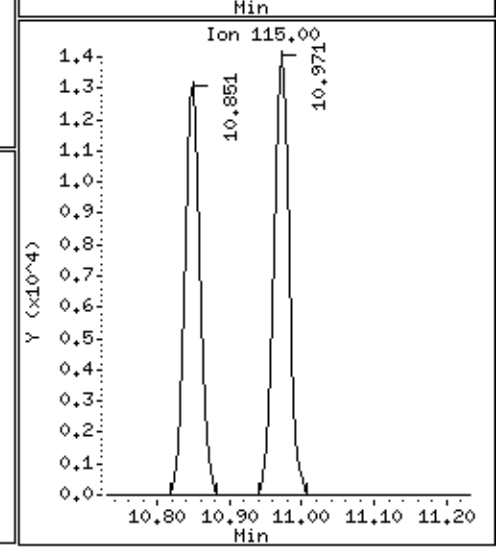






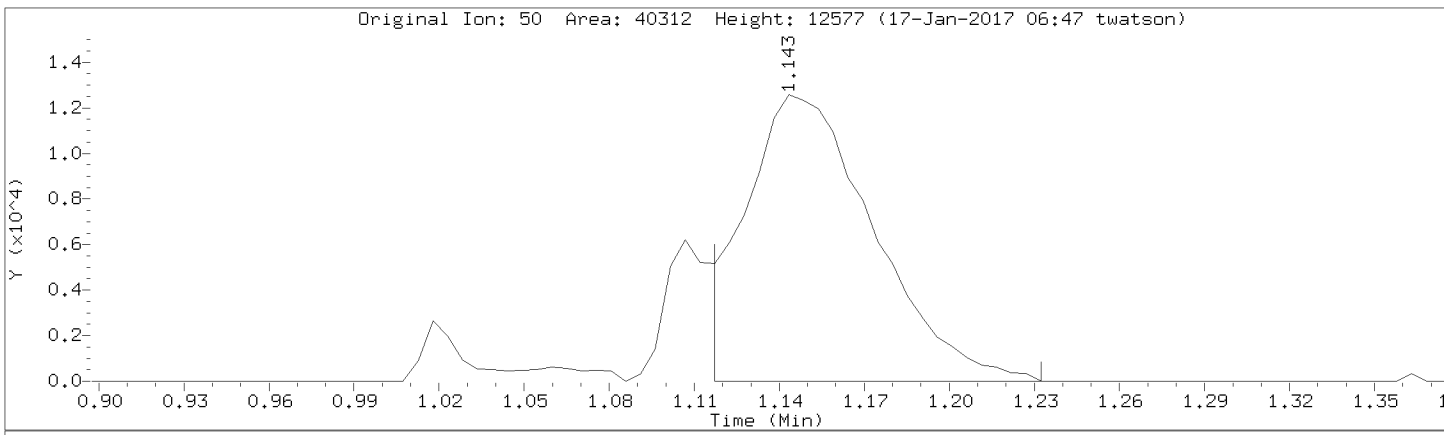


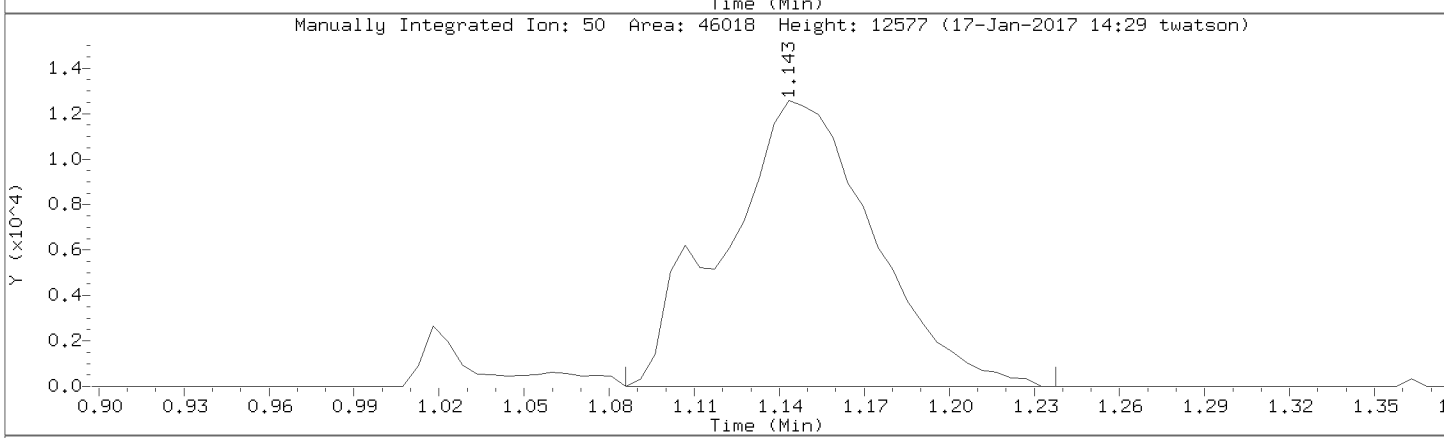


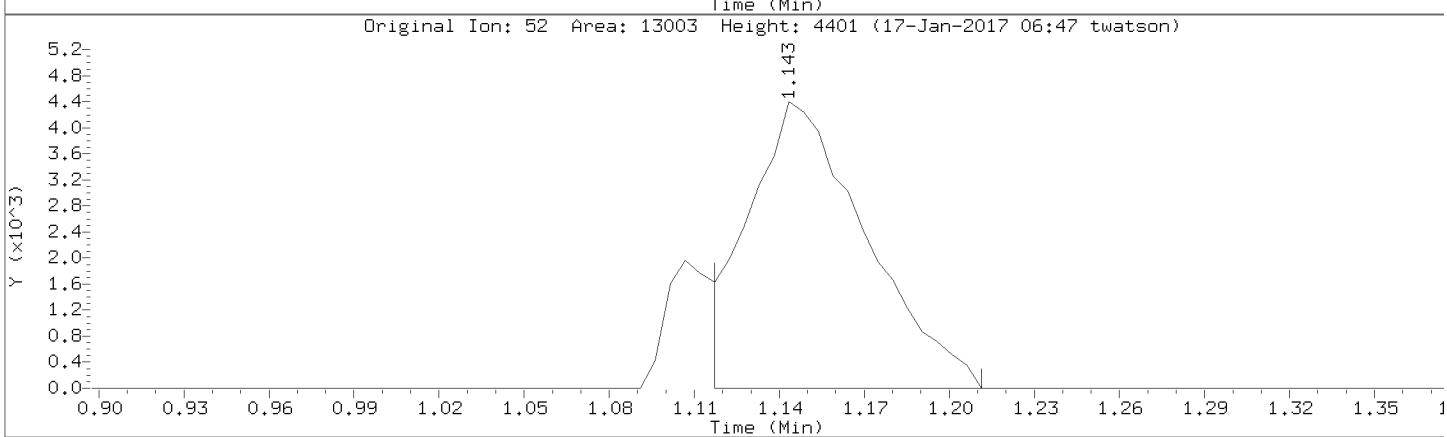


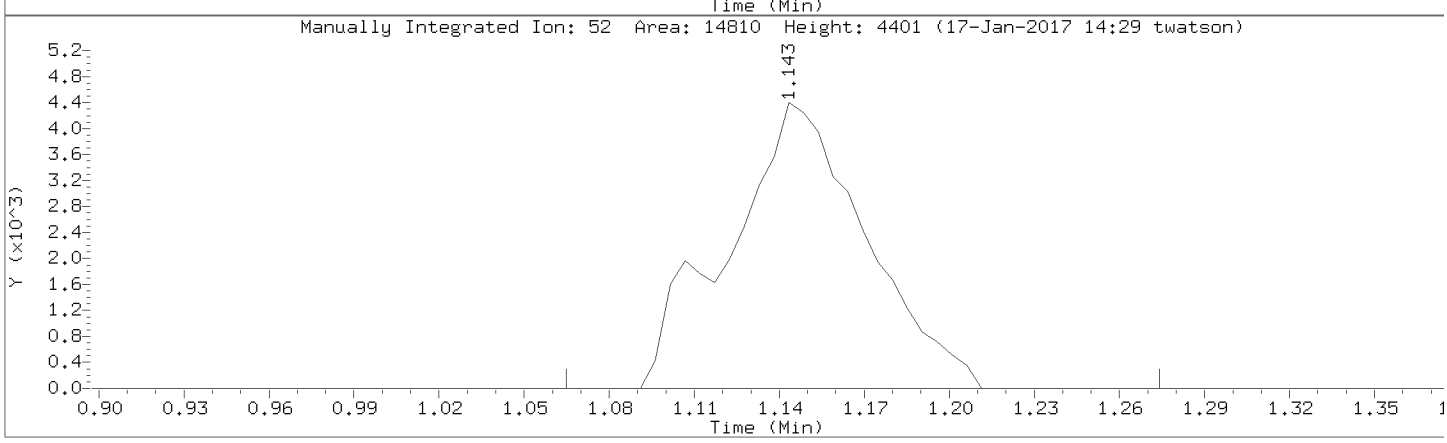
Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b/a10icv.d
Injection Date: 16-JAN-2017 18:29
Instrument: 50mv5a.i
Lab Sample ID: 8260-ICV

Compound: Chloromethane Review Code: LT
CAS Number: 74-87-3









Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssccv.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssccv.d
Lab Smp Id: 8260-CCV,139165:0 Client Smp ID: 8260-CCV,139165:0
Inj Date : 18-JAN-2017 13:16
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-ccv,139165:0
Misc Info : 98903
Comment :
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Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.017	1.017	(0.229)	23905	50.0000	40.8	
2 Chloromethane	50	1.143	1.143	(0.257)	42509	50.0000	48.0	
3 Vinyl Chloride	62	1.153	1.153	(0.260)	35077	50.0000	51.3	
4 Bromomethane	94	1.310	1.310	(0.295)	11309	50.0000	40.1	
5 Chloroethane	64	1.357	1.357	(0.306)	15414	50.0000	52.8	
6 Trichlorofluoromethane	101	1.483	1.483	(0.334)	40231	50.0000	51.6	
7 Diethyl ether	74	1.614	1.614	(0.363)	12252	50.0000	46.5	
8 1,2-dichlorotrifluoroethane	67	1.629	1.629	(0.367)	37119	50.0000	49.4	
9 Acrolein	56	1.692	1.692	(0.381)	104929	1000.00	1620	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.750	(0.394)	32878	50.0000	50.0	
11 1,1-Dichloroethene	96	1.755	1.755	(0.395)	25681	50.0000	45.8	
12 Acetone	43	1.760	1.760	(0.396)	55019	250.000	291	
13 Iodomethane	142	1.849	1.849	(0.416)	55998	100.000	100	
14 Carbon Disulfide	76	1.901	1.901	(0.428)	100204	50.0000	49.9	
20 Methyl Acetate	43	1.943	1.943	(0.437)	51015	50.0000	93.4	
15 Acetonitrile	39	1.964	1.964	(0.442)	80928	50.0000	50.3	
16 allyl chloride	41	1.964	1.964	(0.442)	125754	100.000	101	
17 Methylene Chloride	84	2.043	2.043	(0.460)	29843	50.0000	47.5	
18 tert-Butyl Alcohol	59	2.079	2.079	(0.468)	7965	100.000	116	
19 Acrylonitrile	53	2.184	2.184	(0.492)	49532	200.000	208	
21 Methyl-tert-butyl ether	73	2.210	2.210	(0.497)	82125	50.0000	48.1	
22 1,2-Dichloroethene (trans)	96	2.231	2.231	(0.502)	29705	50.0000	48.7	
23 n-Hexane	57	2.424	2.424	(0.546)	60313	50.0000	50.3	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssccv.d
Report Date: 19-Jan-2017 08:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.539	2.539	(0.572)	286494	200.000	197	
	45 Propyl Acetate	43	2.539	2.539	(0.572)	286544	50.0000		
	26 1,1-Dichloroethane	63	2.555	2.555	(0.575)	64771	50.0000	50.7	
	28 Chloroprene	53	2.613	2.613	(0.588)	61596	50.0000	54.4	
	29 2-Butanone	43	3.031	3.031	(0.682)	104103	250.000	404	
	30 1,2-Dichloroethene (cis)	96	3.062	3.062	(0.689)	32520	50.0000	48.0	
	31 2,2-Dichloropropane	77	3.068	3.068	(0.690)	48696	50.0000	51.7	
	38 Methacrylonitrile	41	3.261	3.261	(0.734)	108036	50.0000	266	
	33 Bromochloromethane	49	3.313	3.313	(0.746)	35583	50.0000	55.9	
	34 Tetrahydrofuran	42	3.329	3.329	(0.749)	12391	50.0000	62.0	
	35 Chloroform	83	3.429	3.429	(0.772)	56525	50.0000	46.9	
	36 1,1,1-Trichloroethane	97	3.622	3.622	(0.815)	48829	50.0000	48.4	
$	37 Dibromofluoromethane (S)	113	3.617	3.617	(0.814)	32262	50.0000	48.6	
	39 Cyclohexane	56	3.711	3.711	(0.835)	66585	50.0000	49.9	
	151 n-butyl chloride	56	3.774	3.774	(0.849)	83689	50.0000	54.1	
	40 Carbon Tetrachloride	117	3.816	3.816	(0.859)	42786	50.0000	50.1	
	41 1,1-Dichloropropene	75	3.826	3.826	(0.861)	45764	50.0000	49.3	
	42 Benzene	78	4.067	4.067	(0.915)	126544	50.0000	45.3	
	43 1,2-Dichloroethane	62	4.145	4.145	(0.933)	44161	50.0000	49.1	
	24 Isobutyl alcohol	43	4.156	4.156	(0.935)	422589	50.0000	75.9	
	44 2,2,4-Trimethylpentane	57	4.229	4.229	(0.952)	149499	50.0000	49.8	
*	46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	132574	50.0000		
	47 Trichloroethene	95	4.883	4.883	(1.099)	33499	50.0000	47.4	
	48 Methylcyclohexane	55	5.144	5.144	(1.158)	63609	50.0000	54.5	
	49 1,2-Dichloropropane	63	5.175	5.175	(1.165)	40376	50.0000	52.2	
	51 1,4-Dioxane	88	5.275	5.275	(1.187)	6272	1000.00	970	
	50 Dibromomethane	93	5.275	5.275	(1.187)	20183	50.0000	50.1	
	52 Methyl methacrylate	69	5.275	5.275	(1.187)	21549	50.0000	54.5	
	53 Bromodichloromethane	83	5.489	5.489	(1.235)	45754	50.0000	47.4	
	54 2-Chloroethyl vinyl ether	63	5.829	5.829	(0.775)	19699	100.000	52.1	
	55 cis-1,3-Dichloropropene	75	5.976	5.976	(0.794)	57674	50.0000	52.0	
	56 4-Methyl-2-Pentanone	43	6.138	6.138	(0.816)	218061	250.000	297	
$	57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	128053	50.0000	51.4	
	58 Toluene	91	6.321	6.321	(0.840)	142275	50.0000	47.8	
	59 trans-1,3-Dichloropropene	75	6.588	6.588	(0.876)	51368	50.0000	53.9	
	60 Ethyl Methacrylate	69	6.656	6.656	(0.885)	168627	50.0000	221	
	61 1,1,2-Trichloroethane	83	6.765	6.765	(0.899)	24511	50.0000	51.1	
	62 Tetrachloroethene	166	6.818	6.818	(0.906)	37521	50.0000	47.1	
	63 1,3-Dichloropropane	76	6.901	6.901	(0.917)	50095	50.0000	51.1	
	64 2-Hexanone	43	6.954	6.954	(0.924)	161801	250.000	299	
	65 Dibromochloromethane	129	7.085	7.085	(0.942)	34451	50.0000	49.3	
	66 1,2-Dibromoethane	107	7.168	7.168	(0.953)	29347	50.0000	50.1	
*	67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	102701	50.0000		
	68 Chlorobenzene	112	7.545	7.545	(1.003)	94436	50.0000	46.7	
	69 1,1,1,2-Tetrachloroethane	131	7.623	7.623	(1.013)	36181	50.0000	48.9	
	70 Ethylbenzene	106	7.623	7.623	(1.013)	52702	50.0000	46.6	
	71 m&p-Xylene	106	7.717	7.717	(1.026)	131372	100.000	98.4	
	72 o-Xylene	106	7.979	7.979	(1.060)	63376	50.0000	45.4	
	73 Styrene	104	7.995	7.995	(1.063)	110617	50.0000	45.6	
	74 Bromoform	173	8.120	8.120	(0.901)	23527	50.0000	47.0	
	75 Isopropylbenzene	105	8.219	8.219	(1.092)	174819	50.0000	45.8	
$	76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	53327	50.0000	51.0	
	77 Bromobenzene	77	8.413	8.413	(1.118)	68655	50.0000	45.4	
	78 1,1,2,2-Tetrachloroethane	83	8.418	8.418	(0.934)	42151	50.0000	48.8	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssccv.d
Report Date: 19-Jan-2017 08:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
79 trans-1,4-Dichloro-2-butene	53	8.439	8.439	(1.122)	52134	50.0000	215	
80 1,2,3-Trichloropropane	110	8.450	8.450	(0.938)	11248	50.0000	54.0	
81 n-Propylbenzene	91	8.476	8.476	(0.941)	221440	50.0000	48.8	
82 2-Chlorotoluene	91	8.528	8.528	(0.947)	124712	50.0000	46.5	
83 1,3,5-Trimethylbenzene	105	8.586	8.586	(0.953)	152271	50.0000	47.2	
84 4-Chlorotoluene	126	8.601	8.601	(0.955)	43092	50.0000	46.1	
85 tert-Butylbenzene	119	8.763	8.763	(0.973)	129733	50.0000	46.0	
86 1,2,4-Trimethylbenzene	105	8.800	8.800	(0.977)	158074	50.0000	46.8	
87 sec-Butylbenzene	105	8.889	8.889	(0.987)	202921	50.0000	45.0	
88 1,3-Dichlorobenzene	146	8.962	8.962	(0.995)	85163	50.0000	46.3	
89 p-Isopropyltoluene	119	8.978	8.978	(0.997)	171315	50.0000	47.7	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	61382	50.0000		
91 1,4-Dichlorobenzene	146	9.025	9.025	(1.002)	87967	50.0000	47.0	
92 n-Butylbenzene	91	9.192	9.192	(1.020)	172495	50.0000	49.1	
93 1,2-Dichlorobenzene	146	9.213	9.213	(1.023)	82998	50.0000	46.2	
94 1,2-Dibromo-3-chloropropane	155	9.621	9.621	(1.068)	7996	50.0000	50.8	
95 1,2,4-Trichlorobenzene	180	10.040	10.040	(1.114)	66929	50.0000	47.3	
96 Hexachlorobutadiene	225	10.108	10.108	(1.122)	35675	50.0000	42.2	
97 Naphthalene	128	10.191	10.191	(1.131)	138705	50.0000	43.6	
98 1,2,3-Trichlorobenzene	180	10.306	10.306	(1.144)	61095	50.0000	43.5	
99 2,methyl-naphthalene	142	10.845	10.845	(1.204)	58578	50.0000	40.6	
150 1-Methylnaphthalene	142	10.971	10.971	(1.218)	63557	50.0000	48.9	

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Date : 18-JAN-2017 13:16
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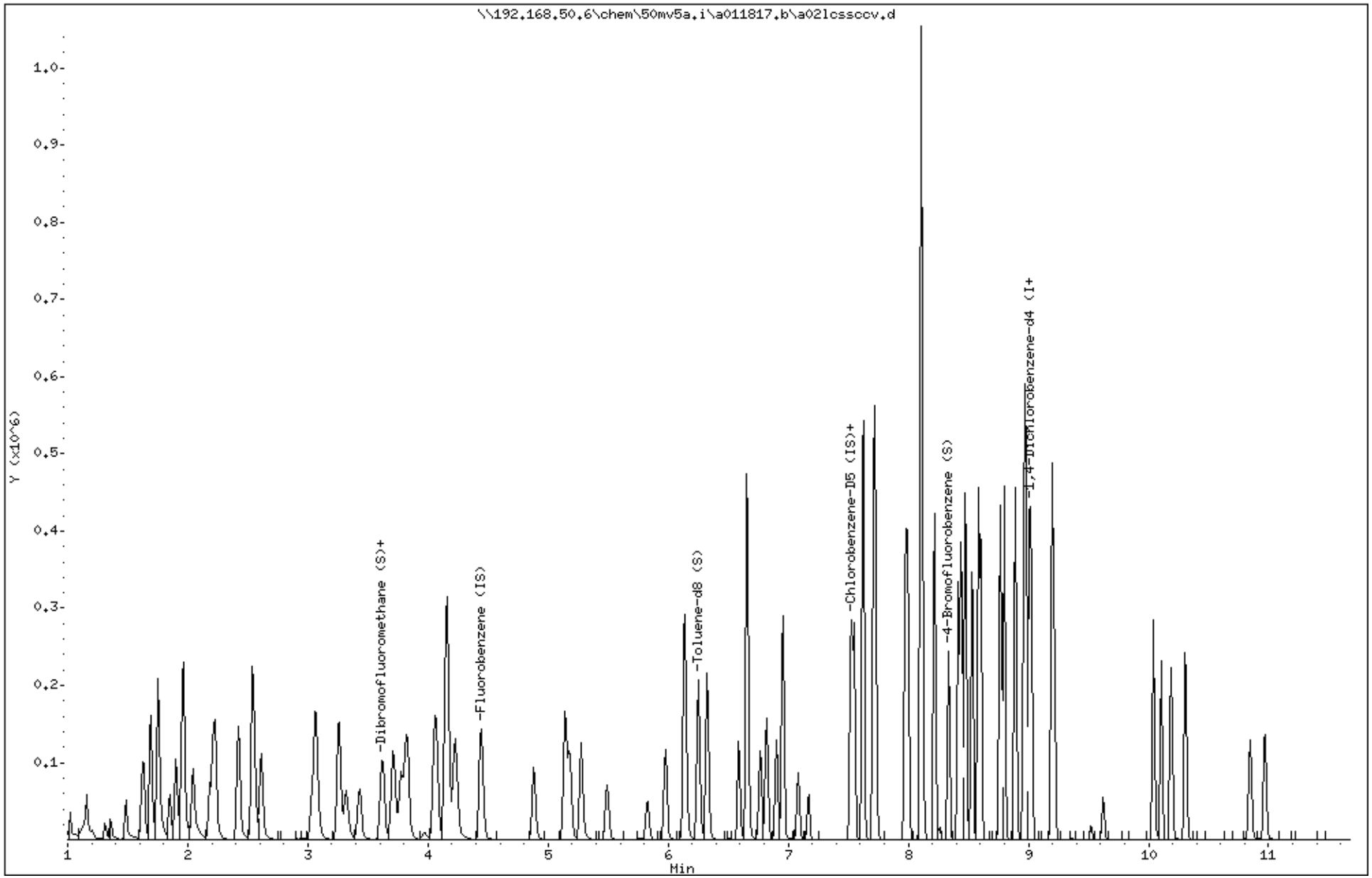
Sample Info: 8260-CCV,139165:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv5a.i
Operator: TMW
Column diameter: 0.18



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Injection Date: 18-JAN-2017 13:16
Instrument: 50mv5a.i
Lab Sample ID: 8260-CCV,139165:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a01ccv.d
Report Date: 20-Jan-2017 13:02

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Data file : \\192.168.50.6\chem\50mv5a.i\a011917.b\a01ccv.d
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Inj Date : 19-JAN-2017 15:01
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 8260-ccv,140012:0
Misc Info : 98903
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011917.b\-a8260_a_c.m
Meth Date : 20-Jan-2017 10:57 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.023	1.023	(0.230)	34730	50.0000	57.6	
2 Chloromethane	50	1.143	1.143	(0.257)	59443	50.0000	65.2	
3 Vinyl Chloride	62	1.159	1.159	(0.260)	50088	50.0000	71.2	
4 Bromomethane	94	1.316	1.316	(0.295)	13207	50.0000	45.6	
5 Chloroethane	64	1.363	1.363	(0.306)	15538	50.0000	51.7	
6 Trichlorofluoromethane	101	1.488	1.488	(0.334)	40677	50.0000	50.7	
7 Diethyl ether	74	1.619	1.619	(0.364)	16312	50.0000	60.2	
8 1,2-dichlorotrifluoroethane	67	1.635	1.635	(0.367)	45450	50.0000	58.8	
9 Acrolein	56	1.697	1.697	(0.381)	72857	1000.00	1090	
10 1,1,2trichlorotrifluoroethane	101	1.750	1.750	(0.393)	38506	50.0000	56.9	
11 1,1-Dichloroethene	96	1.760	1.760	(0.395)	32254	50.0000	55.8	
12 Acetone	43	1.771	1.771	(0.398)	53507	250.000	275	
13 Iodomethane	142	1.854	1.854	(0.416)	70243	100.000	122	
14 Carbon Disulfide	76	1.907	1.907	(0.428)	114982	50.0000	55.6	
20 Methyl Acetate	43	1.948	1.948	(0.438)	33431	50.0000	59.4	
15 Acetonitrile	39	1.969	1.969	(0.442)	98815	50.0000	59.6	
16 allyl chloride	41	1.969	1.969	(0.442)	157431	100.000	123	
17 Methylene Chloride	84	2.048	2.048	(0.460)	35430	50.0000	54.8	
18 tert-Butyl Alcohol	59	2.090	2.090	(0.469)	7526	100.000	106(Q)	
19 Acrylonitrile	53	2.189	2.189	(0.492)	53577	200.000	219	
21 Methyl-tert-butyl ether	73	2.220	2.220	(0.499)	86852	50.0000	49.4	
22 1,2-Dichloroethene (trans)	96	2.236	2.236	(0.502)	34246	50.0000	54.5	
23 n-Hexane	57	2.430	2.430	(0.546)	76835	50.0000	62.2	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a01ccv.d
Report Date: 20-Jan-2017 13:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
25 Vinyl Acetate	43	2.545	2.545	(0.571)	348547	200.000	233	
26 1,1-Dichloroethane	63	2.560	2.560	(0.575)	74611	50.0000	56.8	
28 Chloroprene	53	2.618	2.618	(0.588)	69582	50.0000	59.7	
29 2-Butanone	43	3.047	3.047	(0.684)	82318	250.000	311	
30 1,2-Dichloroethene (cis)	96	3.073	3.073	(0.690)	37183	50.0000	53.3	
31 2,2-Dichloropropane	77	3.078	3.078	(0.691)	55631	50.0000	57.3	
27 Ethyl Acetate	88	3.094	3.094	(0.695)	8663	400.000	420(Q)	
32 Propionitrile	54	3.110	3.110	(0.698)	5645	50.0000	55.5	
38 Methacrylonitrile	41	3.266	3.266	(0.733)	25621	50.0000	61.2	
33 Bromochloromethane	49	3.324	3.324	(0.746)	39950	50.0000	61.0	
34 Tetrahydrofuran	42	3.340	3.340	(0.750)	12207	50.0000	59.3	
35 Chloroform	83	3.439	3.439	(0.772)	63602	50.0000	51.2	
36 1,1,1-Trichloroethane	97	3.633	3.633	(0.816)	55964	50.0000	54.0	
$ 37 Dibromofluoromethane (S)	113	3.627	3.627	(0.814)	33148	50.0000	48.5	
39 Cyclohexane	56	3.721	3.721	(0.836)	81287	50.0000	59.2	
151 n-butyl chloride	56	3.789	3.789	(0.851)	91123	50.0000	57.2	
40 Carbon Tetrachloride	117	3.831	3.831	(0.860)	48301	50.0000	54.9	
41 1,1-Dichloropropene	75	3.831	3.831	(0.860)	53292	50.0000	55.8	
42 Benzene	78	4.077	4.077	(0.915)	146510	50.0000	50.9	
43 1,2-Dichloroethane	62	4.161	4.161	(0.934)	48832	50.0000	52.8	
24 Isobutyl alcohol	43	4.166	4.166	(0.935)	365753	50.0000	63.9	
44 2,2,4-Trimethylpentane	57	4.239	4.239	(0.952)	183878	50.0000	59.5	
* 46 Fluorobenzene (IS)	96	4.454	4.454	(1.000)	136455	50.0000		
47 Trichloroethene	95	4.888	4.888	(1.097)	39344	50.0000	54.1	
48 Methylcyclohexane	55	5.155	5.155	(1.157)	70723	50.0000	58.8	
49 1,2-Dichloropropane	63	5.186	5.186	(1.164)	43361	50.0000	54.5	
51 1,4-Dioxane	88	5.285	5.285	(1.187)	5999	1000.00	910	
50 Dibromomethane	93	5.285	5.285	(1.187)	21524	50.0000	51.9	
52 Methyl methacrylate	69	5.285	5.285	(1.187)	21050	50.0000	51.8	
53 Bromodichloromethane	83	5.500	5.500	(1.235)	49788	50.0000	50.1	
54 2-Chloroethyl vinyl ether	63	5.835	5.835	(0.775)	39894	100.000	104	
55 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	62512	50.0000	55.7	
56 4-Methyl-2-Pentanone	43	6.148	6.148	(0.817)	215709	250.000	290	
$ 57 Toluene-d8 (S)	98	6.263	6.263	(0.832)	131897	50.0000	52.2	
58 Toluene	91	6.331	6.331	(0.841)	156528	50.0000	51.9	
59 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	54670	50.0000	56.7	
60 Ethyl Methacrylate	69	6.666	6.666	(0.885)	42717	50.0000	55.3	
61 1,1,2-Trichloroethane	83	6.776	6.776	(0.900)	26222	50.0000	54.0	
62 Tetrachloroethene	166	6.828	6.828	(0.907)	42784	50.0000	53.0	
63 1,3-Dichloropropane	76	6.907	6.907	(0.917)	53072	50.0000	53.5	
64 2-Hexanone	43	6.959	6.959	(0.924)	159933	250.000	292	
65 Dibromochloromethane	129	7.090	7.090	(0.942)	36267	50.0000	51.2	
66 1,2-Dibromoethane	107	7.173	7.173	(0.953)	31264	50.0000	52.7	
* 67 Chlorobenzene-D5 (IS)	117	7.529	7.529	(1.000)	104021	50.0000		
68 Chlorobenzene	112	7.550	7.550	(1.003)	103249	50.0000	50.4	
69 1,1,1,2-Tetrachloroethane	131	7.628	7.628	(1.013)	38597	50.0000	51.5	
70 Ethylbenzene	106	7.628	7.628	(1.013)	57218	50.0000	50.0	
71 m&p-Xylene	106	7.728	7.728	(1.026)	141634	100.000	105	
72 o-Xylene	106	7.984	7.984	(1.060)	69323	50.0000	49.0	
73 Styrene	104	8.000	8.000	(1.063)	121120	50.0000	49.3	
74 Bromoform	173	8.125	8.125	(0.901)	25798	50.0000	50.6	
75 Isopropylbenzene	105	8.225	8.225	(1.092)	193425	50.0000	50.0	
$ 76 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	55433	50.0000	52.4	
77 Bromobenzene	77	8.418	8.418	(1.118)	76802	50.0000	50.2	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a01ccv.d
Report Date: 20-Jan-2017 13:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
78 1,1,2,2-Tetrachloroethane	83	8.423	8.423	(0.934)	43485	50.0000	49.5	
79 trans-1,4-Dichloro-2-butene	53	8.444	8.444	(1.122)	14411	50.0000	58.7	
80 1,2,3-Trichloropropane	110	8.455	8.455	(0.938)	10830	50.0000	51.0	
81 n-Propylbenzene	91	8.481	8.481	(0.941)	241280	50.0000	52.2	
82 2-Chlorotoluene	91	8.539	8.539	(0.947)	139930	50.0000	51.3	
83 1,3,5-Trimethylbenzene	105	8.591	8.591	(0.953)	168021	50.0000	51.1	
84 4-Chlorotoluene	126	8.612	8.612	(0.955)	48199	50.0000	50.6	
85 tert-Butylbenzene	119	8.774	8.774	(0.973)	145962	50.0000	50.9	
86 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	175147	50.0000	51.0	
87 sec-Butylbenzene	105	8.899	8.899	(0.987)	230762	50.0000	50.3	
88 1,3-Dichlorobenzene	146	8.973	8.973	(0.995)	96285	50.0000	51.4	
89 p-Isopropyltoluene	119	8.983	8.983	(0.997)	194856	50.0000	53.3	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	62473	50.0000		
91 1,4-Dichlorobenzene	146	9.030	9.030	(1.002)	98046	50.0000	51.5	
92 n-Butylbenzene	91	9.203	9.203	(1.021)	195103	50.0000	54.6	
93 1,2-Dichlorobenzene	146	9.218	9.218	(1.023)	90872	50.0000	49.6	
94 1,2-Dibromo-3-chloropropane	155	9.632	9.632	(1.068)	7856	50.0000	49.1	
95 1,2,4-Trichlorobenzene	180	10.050	10.050	(1.115)	74288	50.0000	51.6	
96 Hexachlorobutadiene	225	10.118	10.118	(1.122)	42057	50.0000	48.8	
97 Naphthalene	128	10.197	10.197	(1.131)	150559	50.0000	46.5	
98 1,2,3-Trichlorobenzene	180	10.317	10.317	(1.144)	66956	50.0000	46.9	
99 2,methyl-naphthalene	142	10.861	10.861	(1.205)	68739	50.0000	46.8	
150 1-Methylnaphthalene	142	10.981	10.981	(1.218)	61631	50.0000	46.6	

QC Flag Legend

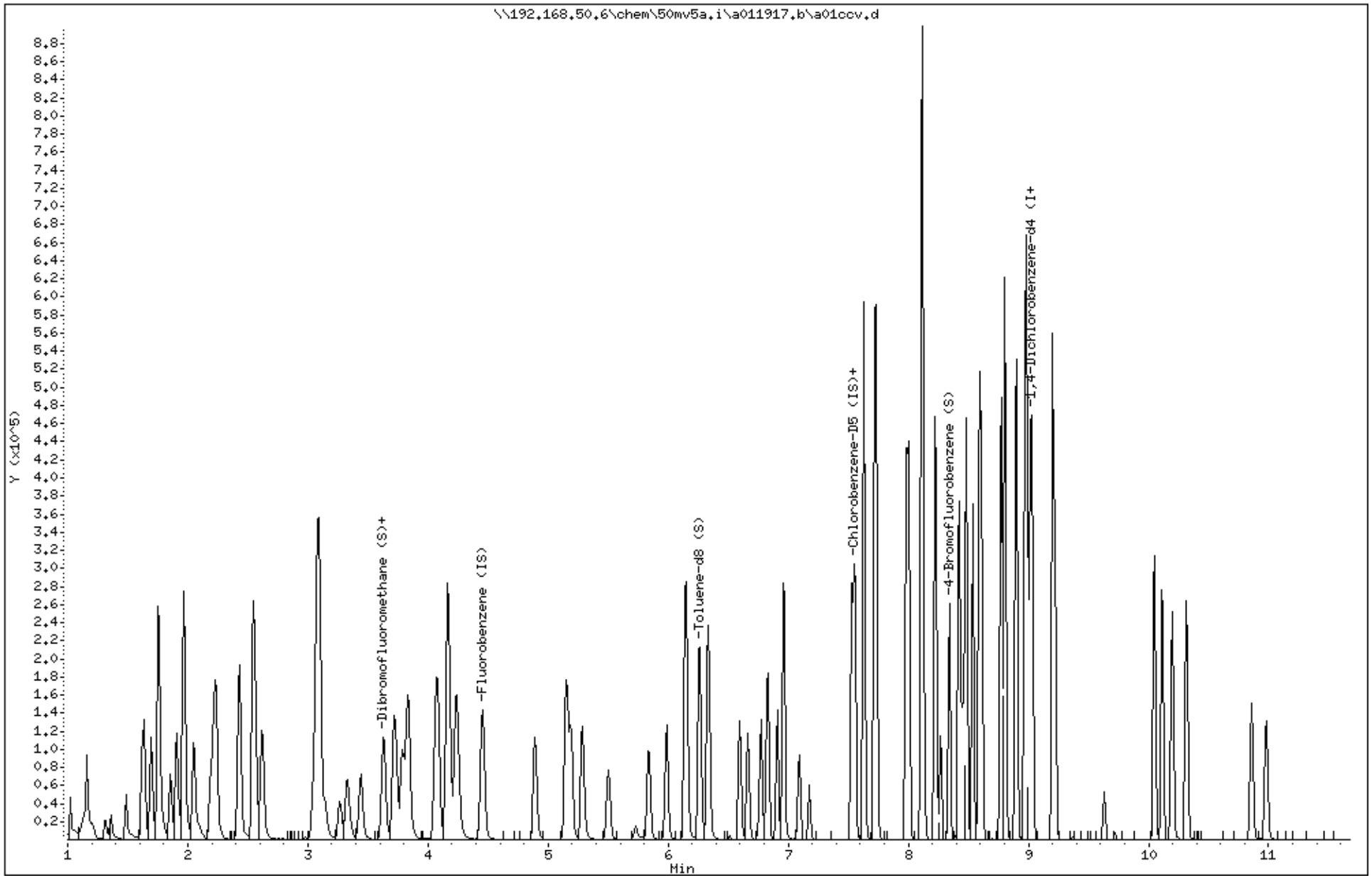
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a01ccv.d
Date : 19-JAN-2017 15:01
Client ID: 8260-CCV,140012:0
Sample Info: 8260-CCV,140012:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv5a.i
Operator: TMW
Column diameter: 0.18



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Injection Date: 19-JAN-2017 15:01
Instrument: 50mv5a.i
Lab Sample ID: 8260-CCV,140012:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d
Lab Smp Id: 8260-ICV,139204:0 Client Smp ID: 8260-ICV,139204:0
Inj Date : 04-JAN-2017 20:33
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-icv,139204:0
Misc Info : 98621
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b010417cal.b\-b8260_a_c.m
Meth Date : 05-Jan-2017 13:28 50mv5b.i Quant Type: ISTD
Cal Date : 04-JAN-2017 19:17 Cal File: b08cal8.d
Als bottle: 61 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: ENDTTARAW

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.038	1.033	(0.233)	47068	41.1572	41.2	
2 Chloromethane	50	1.127	1.122	(0.253)	44021	43.2835	43.3	
3 Vinyl Chloride	62	1.174	1.174	(0.263)	44935	49.5841	49.6	
4 Bromomethane	94	1.331	1.316	(0.298)	27249	71.7413	71.7	
5 Chloroethane	64	1.378	1.363	(0.309)	22468	49.4376	49.4	
6 Trichlorofluoromethane	101	1.504	1.488	(0.337)	72007	51.3771	51.4	
7 Diethyl ether	74	1.635	1.629	(0.366)	18265	52.0172	52.0	
8 1,2-dichlorotrifluoroethane	67	1.650	1.645	(0.370)	44753	52.7889	52.8	
9 Acrolein	56	1.713	1.708	(0.384)	77828	1200.51	1200	
10 1,1,2trichlorotrifluoroethane	101	1.771	1.755	(0.397)	42565	51.4773	51.5	
11 1,1-Dichloroethene	96	1.776	1.760	(0.398)	31159	45.9862	46.0	
12 Acetone	43	1.781	1.781	(0.399)	32044	211.590	212	
13 Iodomethane	142	1.870	1.860	(0.419)	99211	97.7684	97.8	
14 Carbon Disulfide	76	1.922	1.912	(0.431)	115870	49.6138	49.6	
15 Methyl Acetate	43	1.964	1.959	(0.440)	30222	66.3211	66.3	
16 Acetonitrile	39	1.985	1.975	(0.445)	55891	44.2689	44.3	
17 allyl chloride	41	1.985	1.975	(0.445)	77133	93.0007	93.0	
18 Methylene Chloride	84	2.063	2.053	(0.462)	36020	46.4915	46.5	
19 tert-Butyl Alcohol	59	2.100	2.111	(0.470)	5547	99.0256	99.0(Q)	
20 Acrylonitrile	53	2.205	2.200	(0.494)	30735	188.336	188	
21 Methyl-tert-butyl ether	73	2.236	2.231	(0.501)	95629	48.6734	48.7	
22 1,2-Dichloroethene (trans)	96	2.252	2.241	(0.504)	36023	49.8755	49.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 n-Hexane	57	2.445	2.435	(0.548)	48583	50.2341	50.2	
	24 Vinyl Acetate	43	2.560	2.560	(0.574)	194567	194.211	194	
	25 1,1-Dichloroethane	63	2.576	2.571	(0.577)	60798	49.4102	49.4	
	26 Chloroprene	53	2.634	2.628	(0.590)	45034	54.6610	54.7	
	27 2-Butanone	43	3.057	3.063	(0.685)	60167	324.437	324	
	28 1,2-Dichloroethene (cis)	96	3.089	3.083	(0.692)	40736	51.5445	51.5(Q)	
	29 2,2-Dichloropropane	77	3.094	3.083	(0.693)	56125	51.5797	51.6	
	31 Methacrylonitrile	41	3.277	3.282	(0.734)	63719	226.577	226	
	32 Bromochloromethane	49	3.340	3.335	(0.748)	22588	48.6963	48.7	
	33 Tetrahydrofuran	42	3.350	3.350	(0.750)	6733	48.5314	48.5	
	34 Chloroform	83	3.455	3.450	(0.774)	69259	49.6098	49.6	
	35 1,1,1-Trichloroethane	97	3.643	3.638	(0.816)	60361	49.0500	49.0	
$	36 Dibromofluoromethane (S)	113	3.643	3.638	(0.816)	49237	47.0192	47.0	
	37 Cyclohexane	56	3.737	3.727	(0.837)	46937	49.4259	49.4	
	38 n-butyl chloride	56	3.800	3.795	(0.851)	63595	53.6783	53.7	
	39 Carbon Tetrachloride	117	3.842	3.837	(0.861)	59141	51.3300	51.3	
	40 1,1-Dichloropropene	75	3.847	3.842	(0.862)	51421	50.6379	50.6	
	41 Benzene	78	4.088	4.082	(0.916)	137154	45.8774	45.9	
	42 1,2-Dichloroethane	62	4.171	4.166	(0.934)	44028	47.8662	47.9	
	43 Isobutyl alcohol	43	4.177	4.187	(0.936)	263761	67.6467	67.6	
	44 2,2,4-Trimethylpentane	57	4.250	4.245	(0.952)	126496	56.1895	56.2	
*	45 Fluorobenzene (IS)	96	4.464	4.459	(1.000)	171540	50.0000		
	46 Trichloroethene	95	4.898	4.893	(1.097)	38367	48.5471	48.5	
	47 Methylcyclohexane	55	5.160	5.155	(1.156)	43955	52.5289	52.5	
	48 1,2-Dichloropropane	63	5.191	5.197	(1.163)	35235	51.8917	51.9	
	49 Dibromomethane	93	5.291	5.291	(1.185)	23974	47.7544	47.8	
	50 Methyl methacrylate	69	5.285	5.291	(1.184)	21073	51.5937	51.6	
	51 1,4-Dioxane	88	5.291	5.291	(1.185)	5349	877.237	877	
	52 Bromodichloromethane	83	5.505	5.505	(1.233)	53911	50.1884	50.2	
	53 2-Chloroethyl vinyl ether	63	5.840	5.840	(0.776)	17785	49.5060	49.5	
	54 cis-1,3-Dichloropropene	75	5.986	5.986	(0.795)	61473	51.8901	51.9	
	55 4-Methyl-2-Pentanone	43	6.148	6.154	(0.817)	120985	243.900	244	
$	56 Toluene-d8 (S)	98	6.263	6.263	(0.832)	176183	50.2609	50.3	
	57 Toluene	91	6.337	6.337	(0.842)	163060	49.7542	49.8	
	58 trans-1,3-Dichloropropene	75	6.598	6.598	(0.876)	54977	52.1668	52.2	
	59 Ethyl Methacrylate	69	6.666	6.666	(0.885)	167562	210.208	210	
	60 1,1,2-Trichloroethane	83	6.776	6.776	(0.900)	28173	53.2990	53.3	
	61 Tetrachloroethene	166	6.828	6.828	(0.907)	49979	50.7291	50.7	
	62 1,3-Dichloropropane	76	6.907	6.907	(0.917)	53805	52.0073	52.0	
	63 2-Hexanone	43	6.959	6.964	(0.924)	87659	245.517	246	
	64 Dibromochloromethane	129	7.090	7.090	(0.942)	47282	50.0590	50.0	
	65 1,2-Dibromoethane	107	7.173	7.174	(0.953)	37149	51.7017	51.7	
*	66 Chlorobenzene-d5 (IS)	117	7.529	7.529	(1.000)	137433	50.0000		
	67 Chlorobenzene	112	7.550	7.555	(1.003)	114929	47.5541	47.6	
	68 1,1,1,2-Tetrachloroethane	131	7.628	7.629	(1.013)	44055	50.5591	50.6	
	69 Ethylbenzene	106	7.628	7.634	(1.013)	63061	48.4616	48.5	
	70 m&p-Xylene	106	7.723	7.728	(1.026)	154483	96.1380	96.1	
	71 o-Xylene	106	7.984	7.984	(1.060)	77696	49.2154	49.2	
	72 Styrene	104	8.000	8.000	(1.063)	133305	50.9129	50.9	
	73 Bromoform	173	8.120	8.125	(0.901)	31993	46.1045	46.1	
	74 Isopropylbenzene	105	8.225	8.225	(1.092)	207055	49.1691	49.2	
$	75 4-Bromofluorobenzene (S)	95	8.335	8.340	(1.107)	66770	51.1517	51.2	
	76 Bromobenzene	77	8.418	8.418	(1.118)	72224	48.8129	48.8	
	77 1,1,2,2-Tetrachloroethane	83	8.423	8.429	(0.934)	45986	47.8779	47.9	

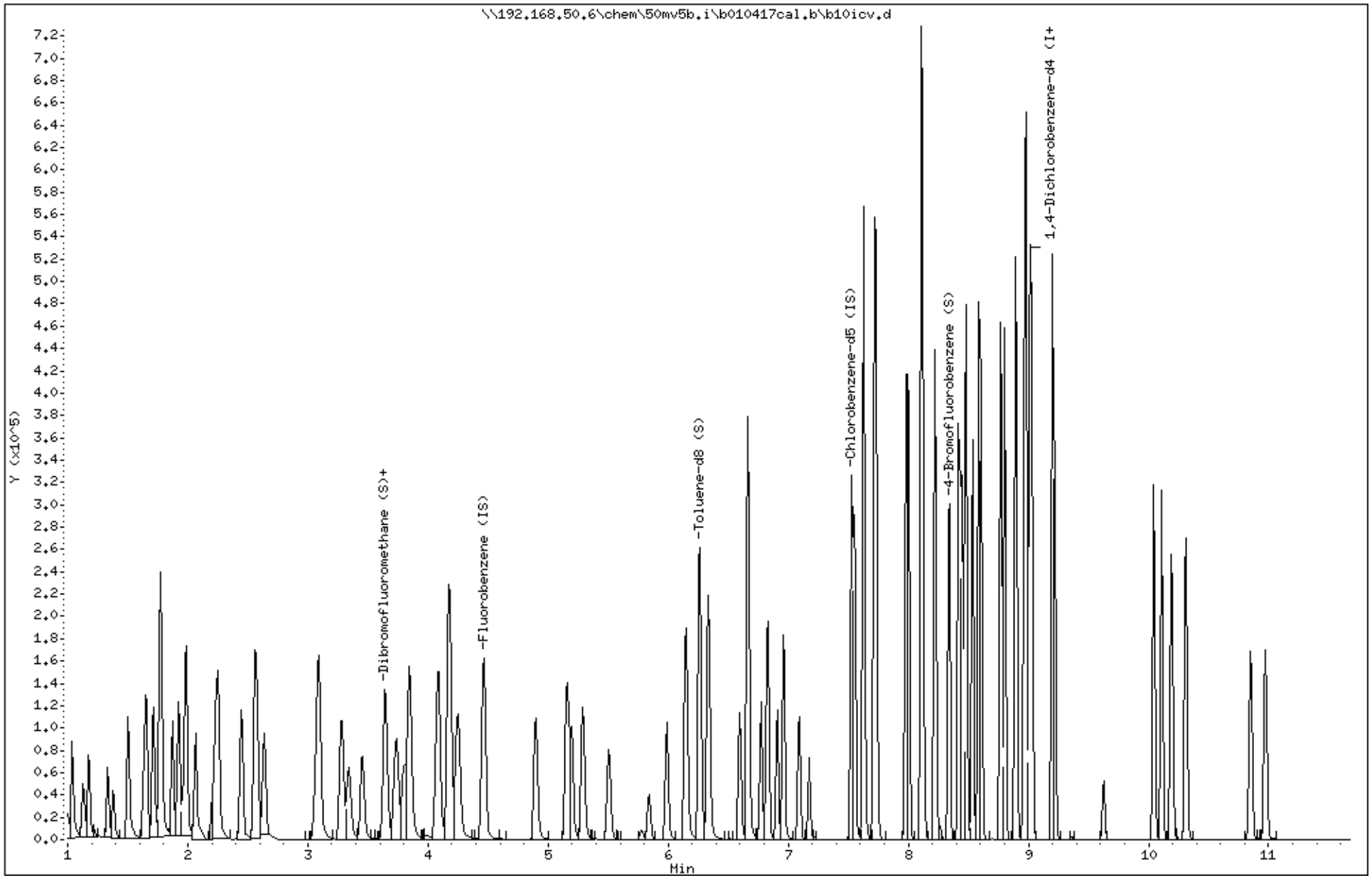
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 trans-1,4-Dichloro-2-butene	53	8.439	8.444	(1.121)	34014	190.293	190(Q)	
79 1,2,3-Trichloropropane	110	8.455	8.460	(0.938)	13699	50.7449	50.7(Q)	
80 n-Propylbenzene	91	8.481	8.486	(0.941)	246076	50.5582	50.6	
81 2-Chlorotoluene	91	8.533	8.539	(0.947)	135425	47.9608	48.0	
82 1,3,5-Trimethylbenzene	105	8.586	8.591	(0.952)	178281	48.7858	48.8	
83 4-Chlorotoluene	126	8.607	8.612	(0.955)	53533	45.9257	45.9	
84 tert-Butylbenzene	119	8.769	8.774	(0.973)	156493	48.0133	48.0	
85 1,2,4-Trimethylbenzene	105	8.800	8.805	(0.976)	181012	47.7776	47.8	
86 sec-Butylbenzene	105	8.894	8.900	(0.987)	239650	46.9817	47.0	
87 1,3-Dichlorobenzene	146	8.967	8.973	(0.995)	107788	47.4131	47.4	
88 p-Isopropyltoluene	119	8.978	8.983	(0.996)	210184	50.1139	50.1	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.014	9.015	(1.000)	87145	50.0000	(Q)	
90 1,4-Dichlorobenzene	146	9.025	9.030	(1.001)	111655	47.1876	47.2	
91 n-Butylbenzene	91	9.198	9.198	(1.020)	184178	49.3181	49.3	
92 1,2-Dichlorobenzene	146	9.218	9.219	(1.023)	107983	48.7781	48.8	
93 1,2-Dibromo-3-chloropropane	155	9.626	9.627	(1.068)	9183	49.0216	49.0	
94 1,2,4-Trichlorobenzene	180	10.045	10.045	(1.114)	81604	48.8501	48.8	
95 Hexachlorobutadiene	225	10.113	10.113	(1.122)	49859	50.5978	50.6	
96 Naphthalene	128	10.191	10.191	(1.131)	171080	44.9730	45.0	
97 1,2,3-Trichlorobenzene	180	10.312	10.312	(1.144)	74964	47.9274	47.9	
98 2,methyl-naphthalene	142	10.850	10.850	(1.204)	80694	44.0597	44.0	
99 1-Methylnaphthalene	142	10.976	10.976	(1.218)	85622	51.4647	51.5	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d
Date : 04-JAN-2017 20:33
Client ID: 8260-ICV,139204:0
Sample Info: 8260-ICV,139204:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv5b.i
Operator: TMW
Column diameter: 0.18



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Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

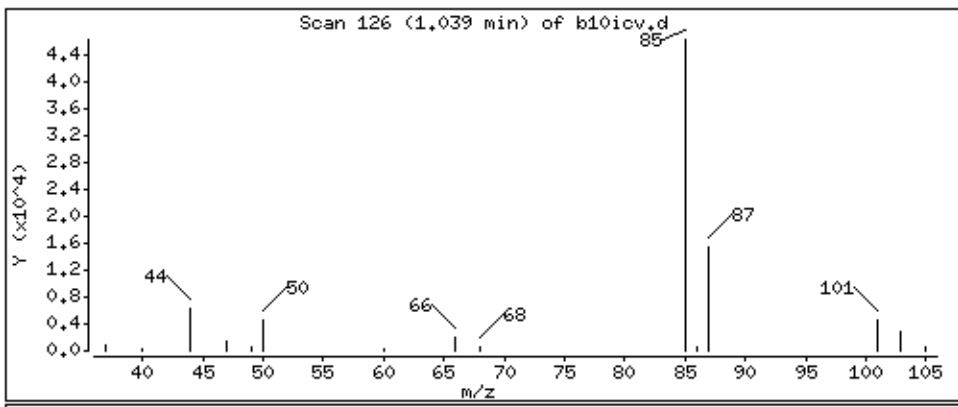
Operator: TMW

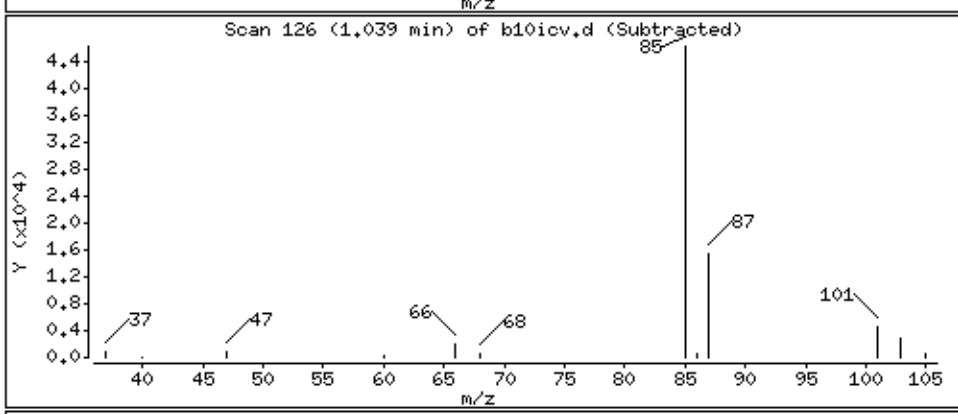
Column phase: DB-624

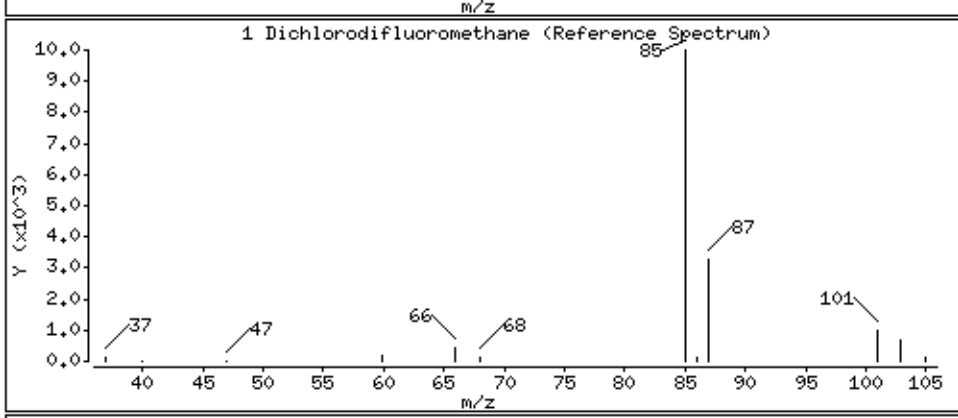
Column diameter: 0.18

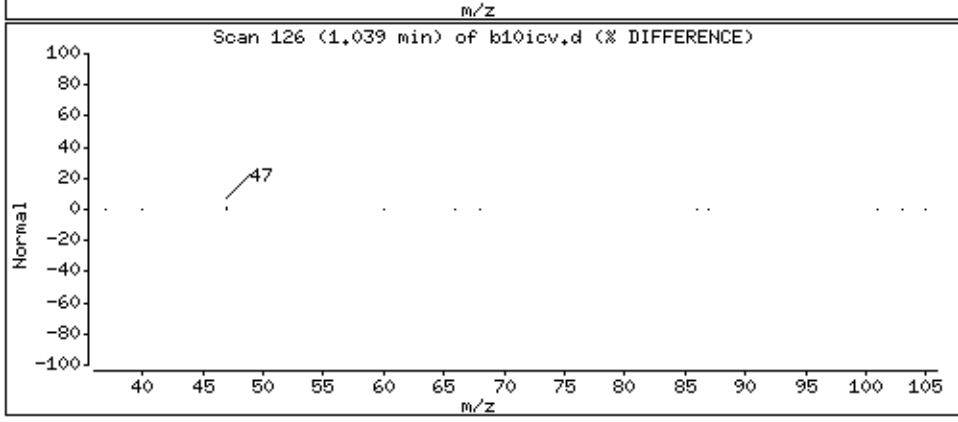
1 Dichlorodifluoromethane

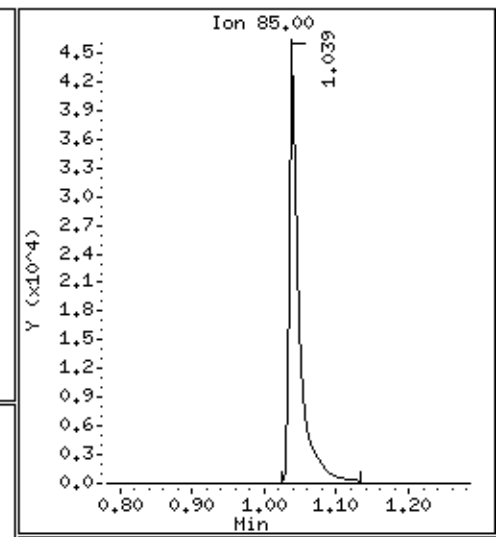
Concentration: 41.2 ppb

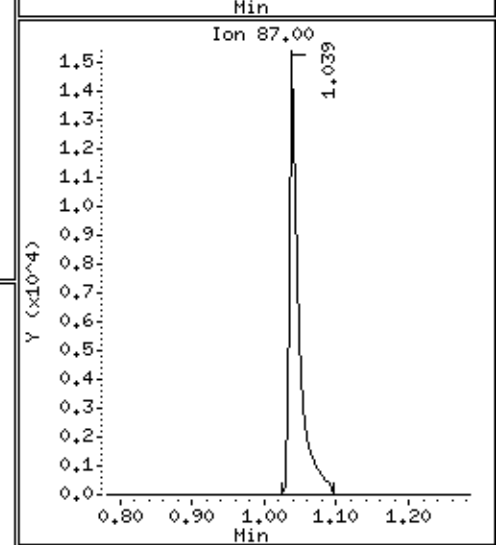


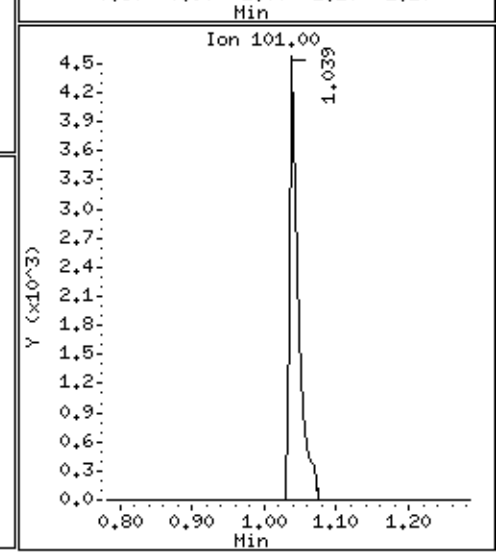












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Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

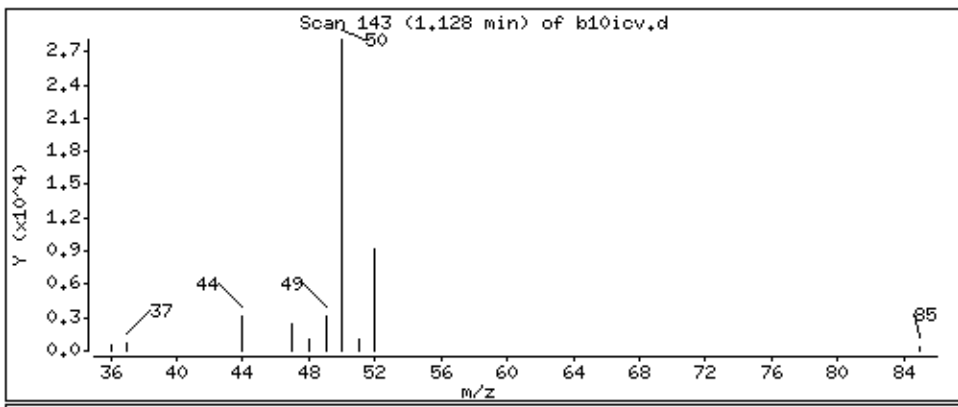
Operator: TMW

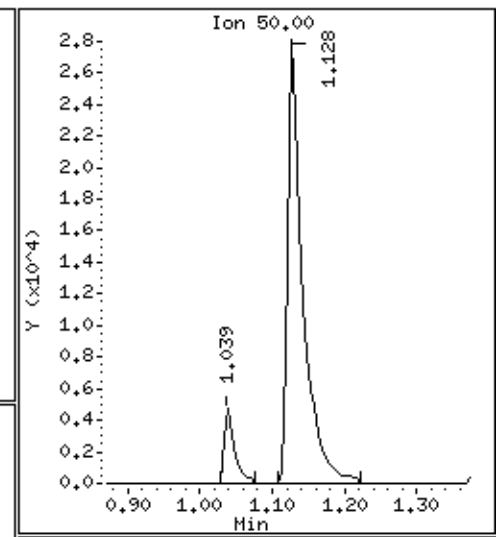
Column phase: DB-624

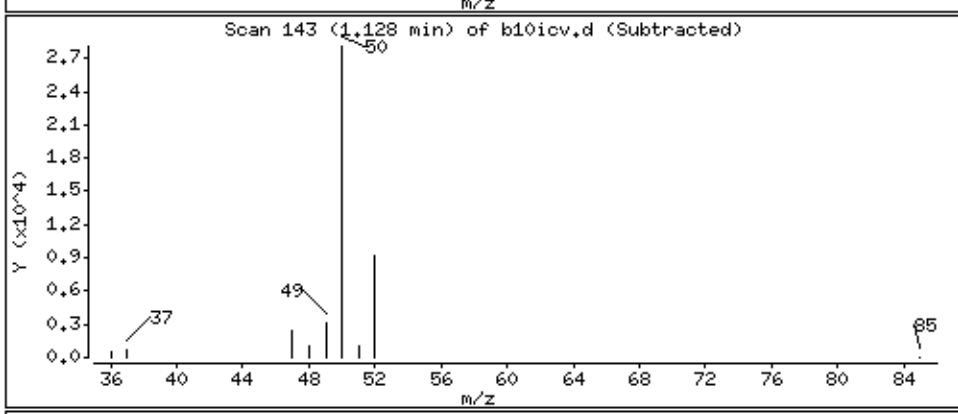
Column diameter: 0.18

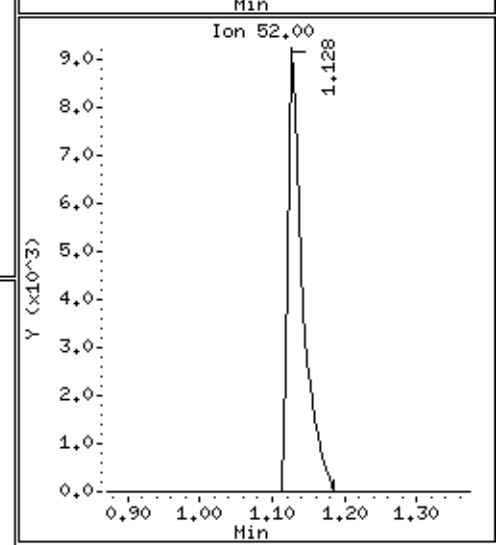
2 Chloromethane

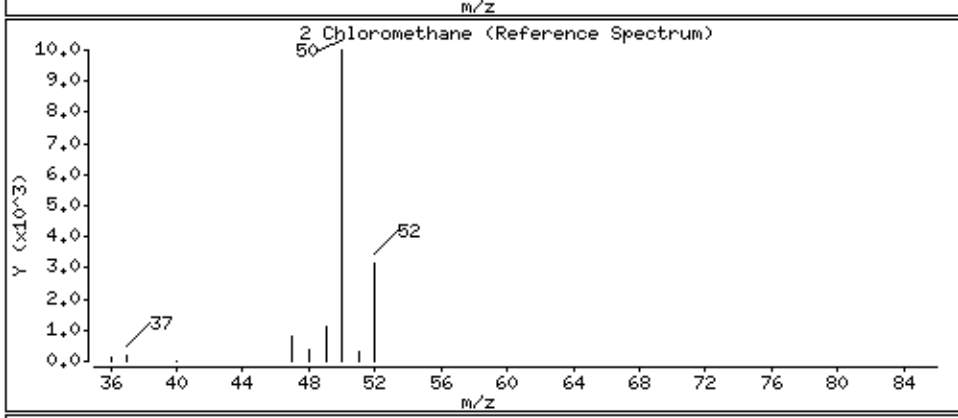
Concentration: 43.3 ppb

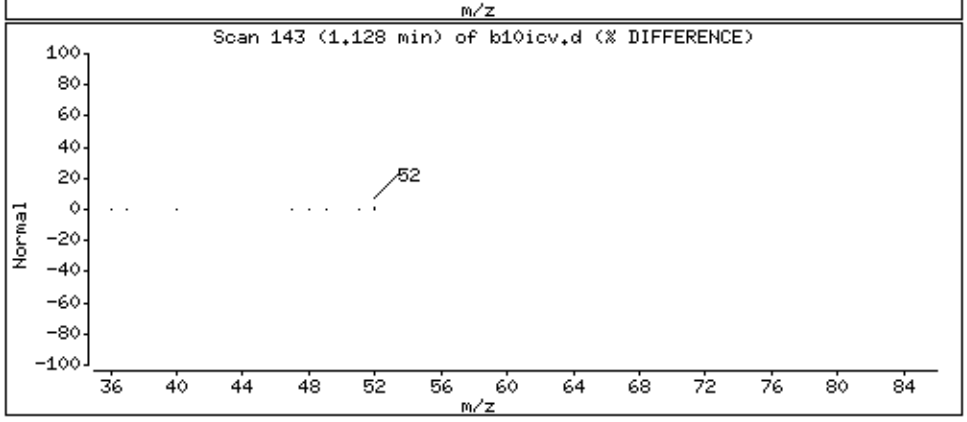












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

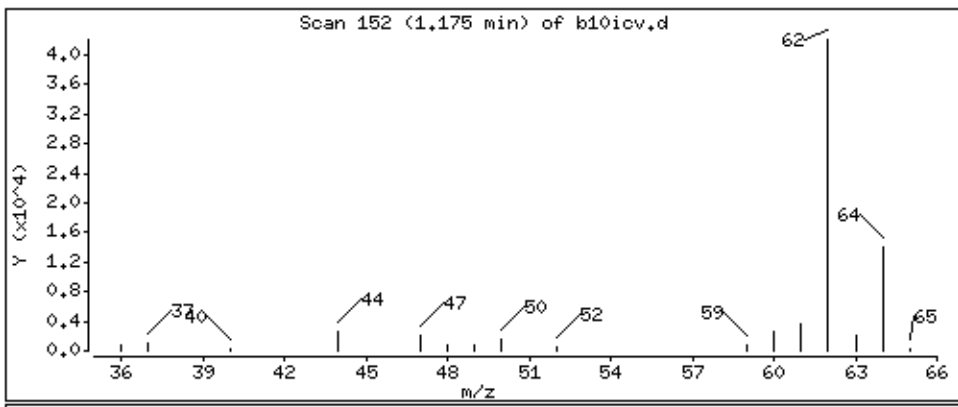
Operator: TMW

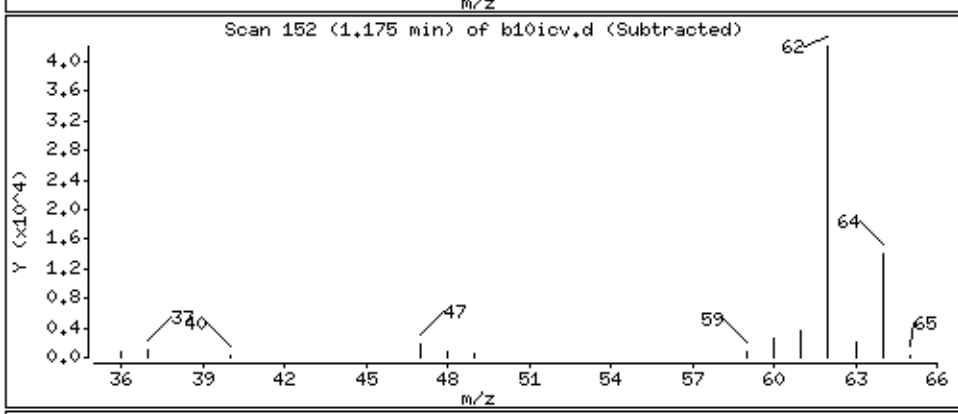
Column phase: DB-624

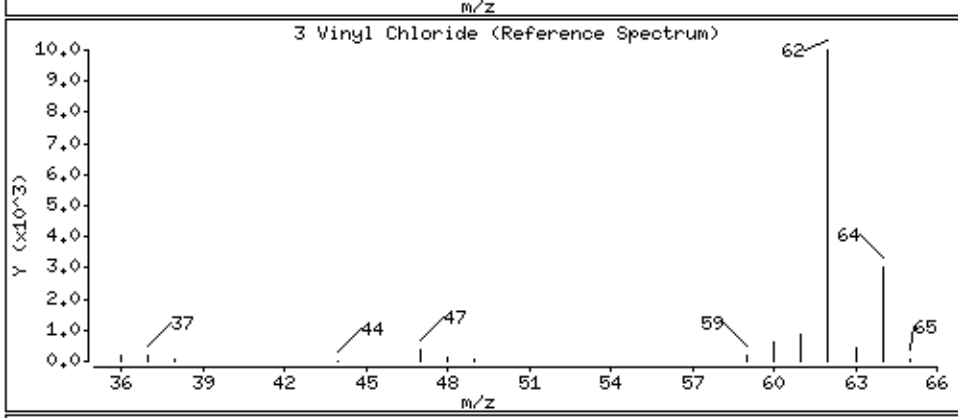
Column diameter: 0.18

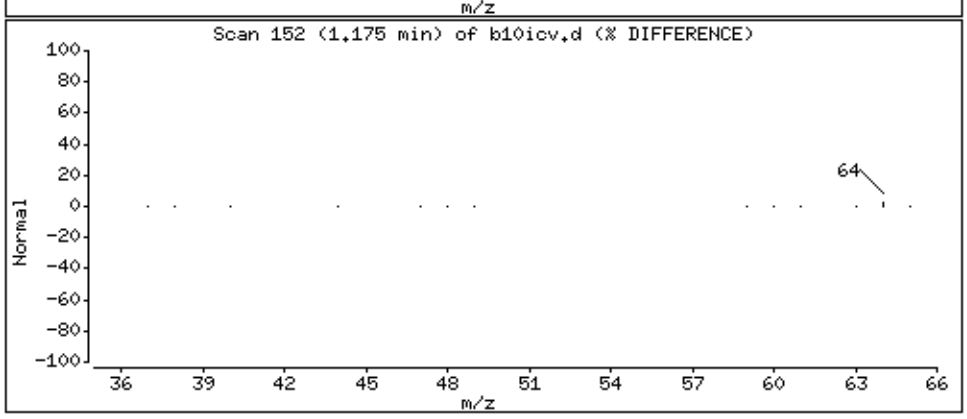
3 Vinyl Chloride

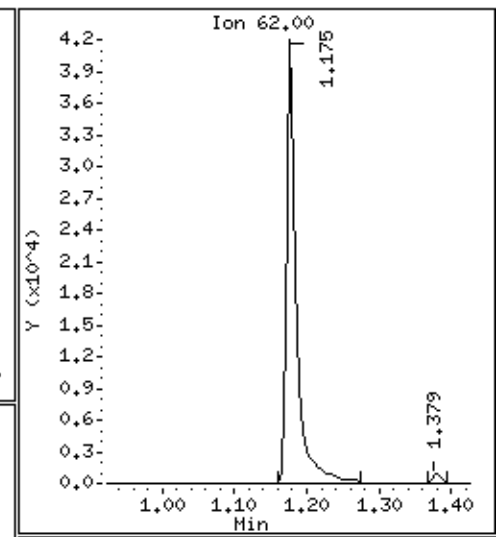
Concentration: 49.6 ppb

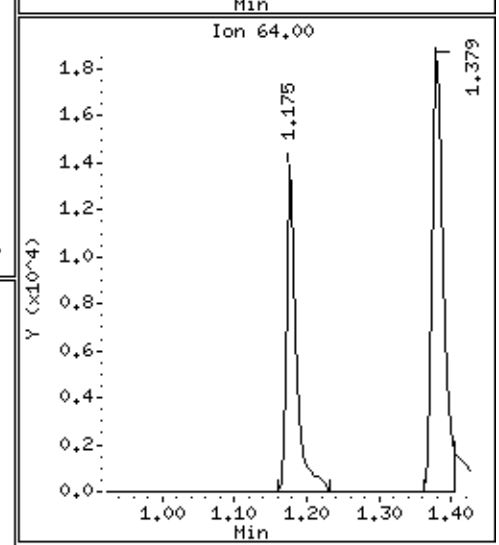












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

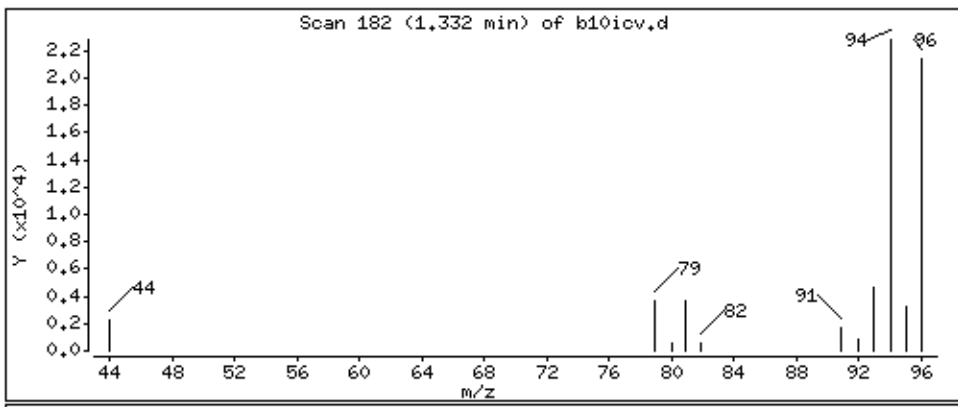
Operator: TMW

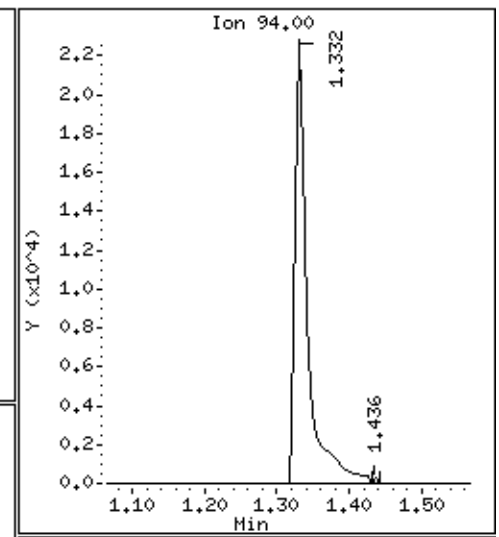
Column phase: DB-624

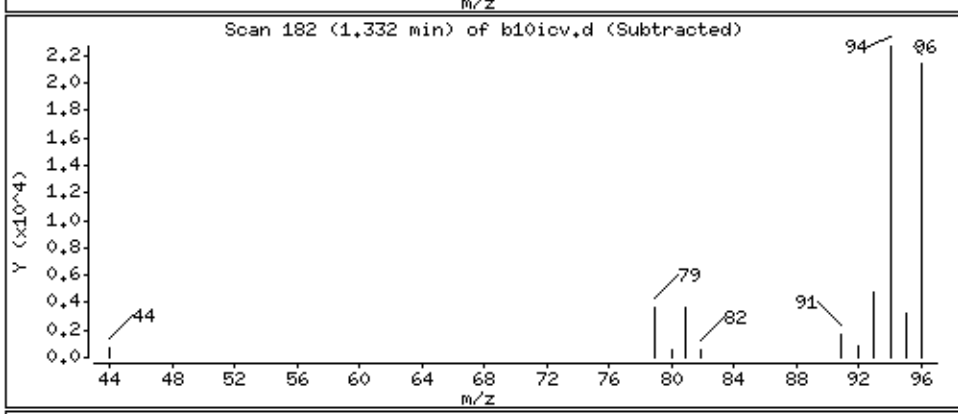
Column diameter: 0.18

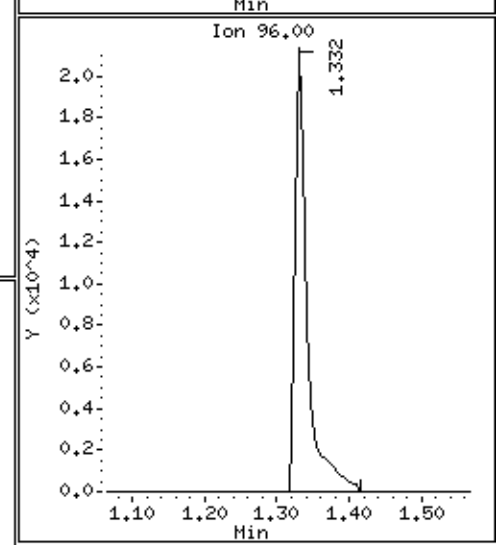
4 Bromomethane

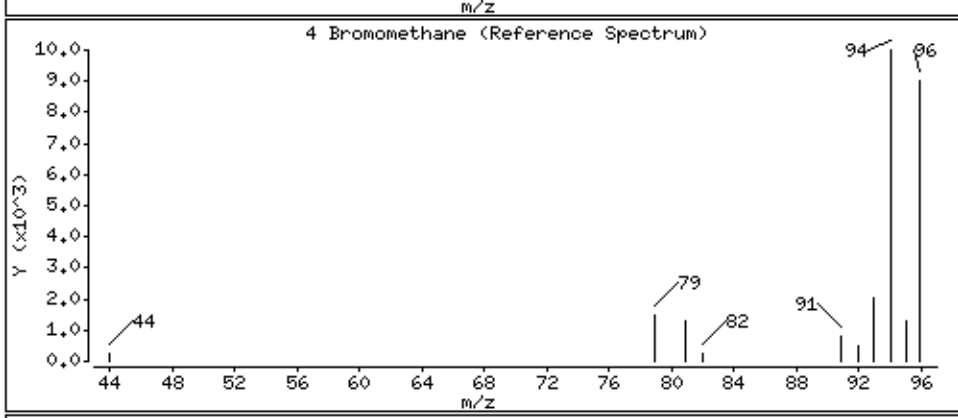
Concentration: 71.7 ppb

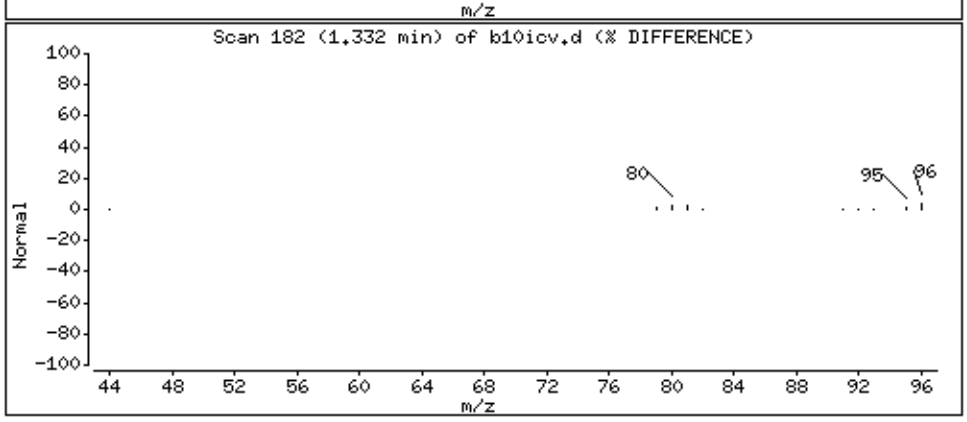












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

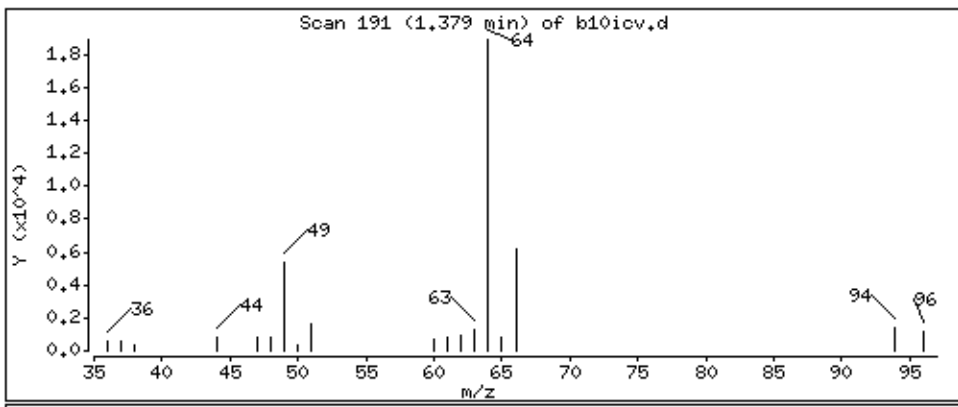
Operator: TMW

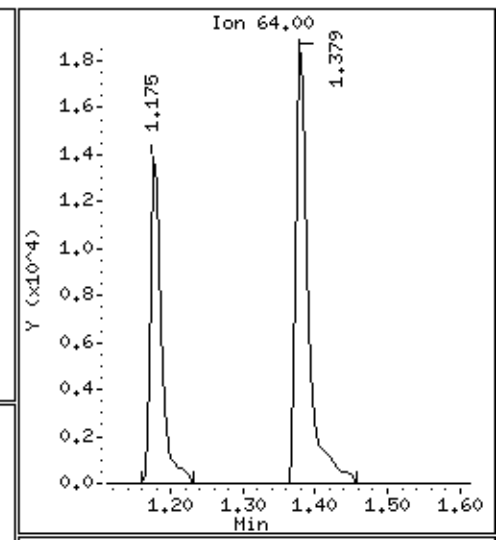
Column phase: DB-624

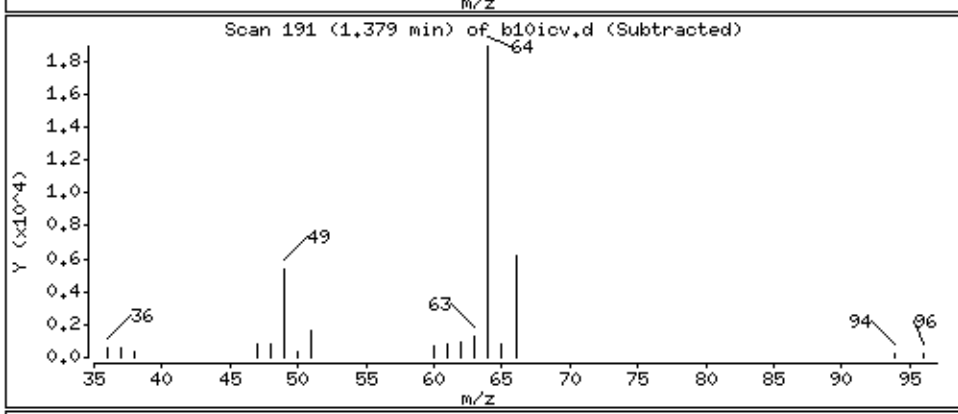
Column diameter: 0.18

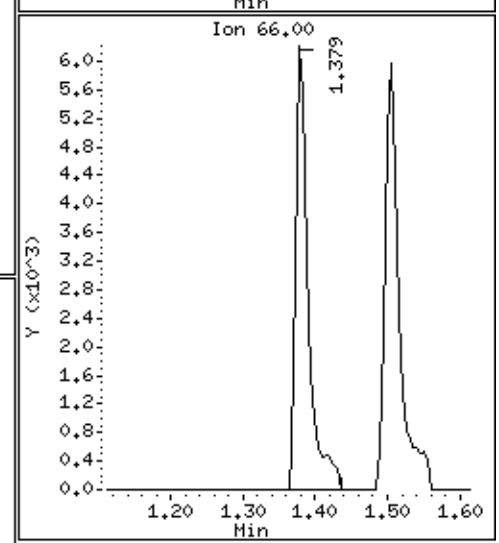
5 Chloroethane

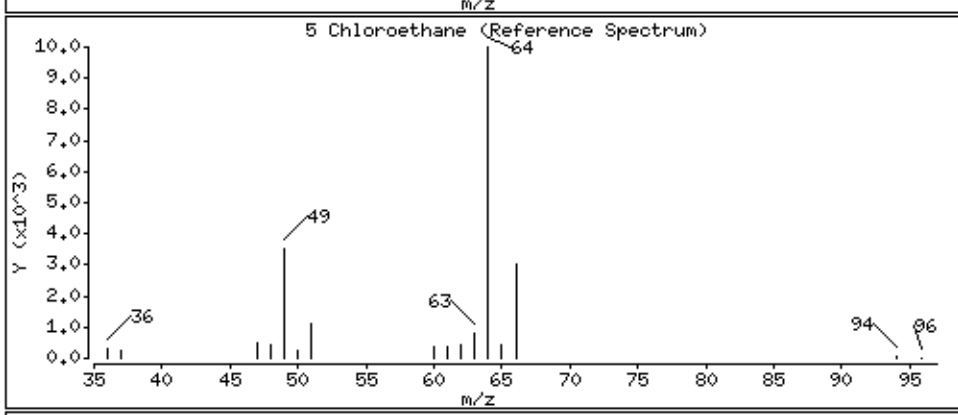
Concentration: 49.4 ppb

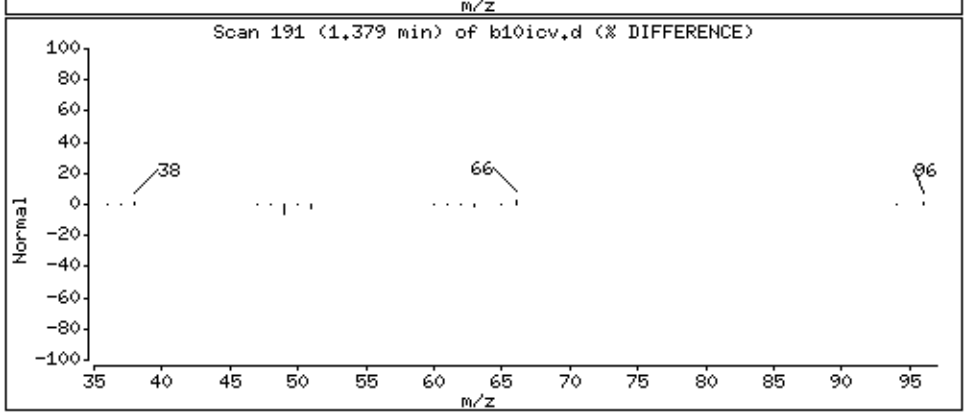












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

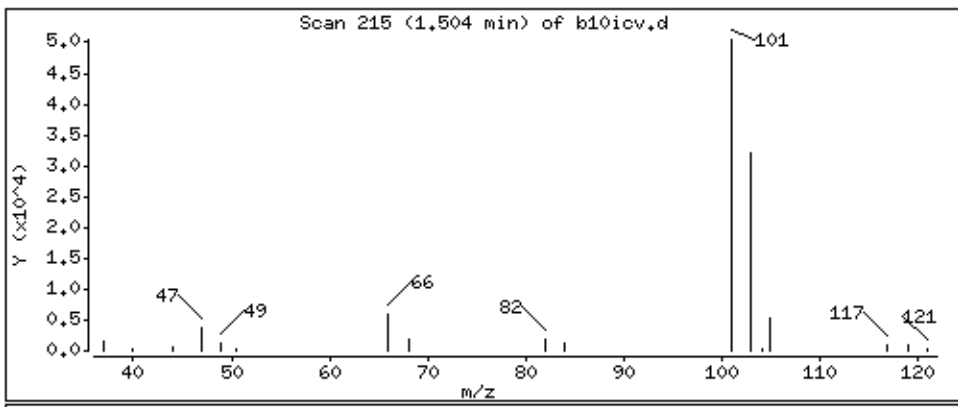
Operator: TMW

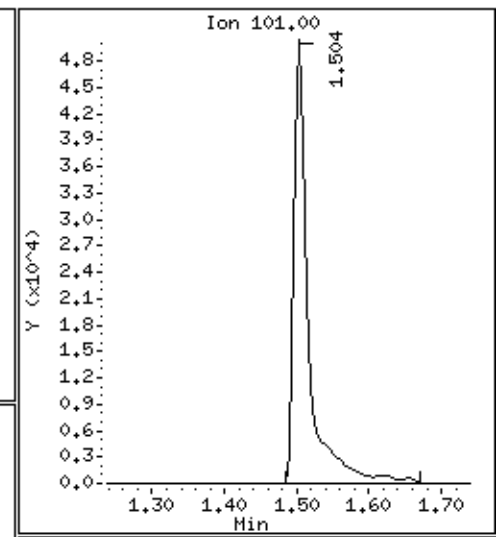
Column phase: DB-624

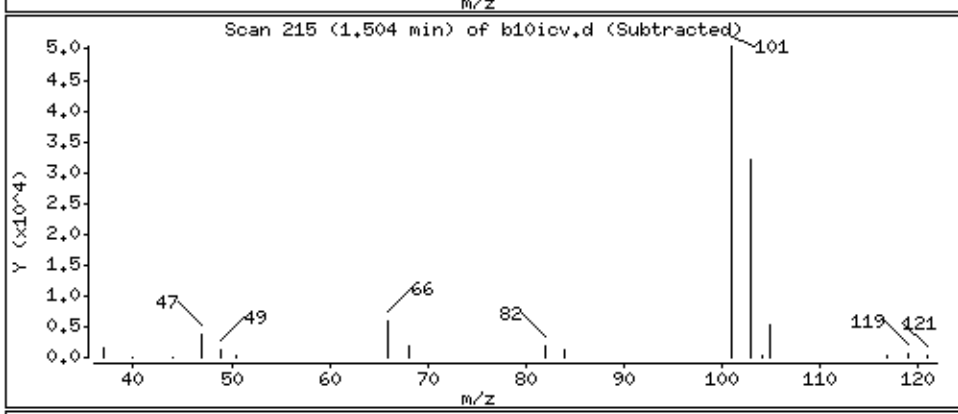
Column diameter: 0.18

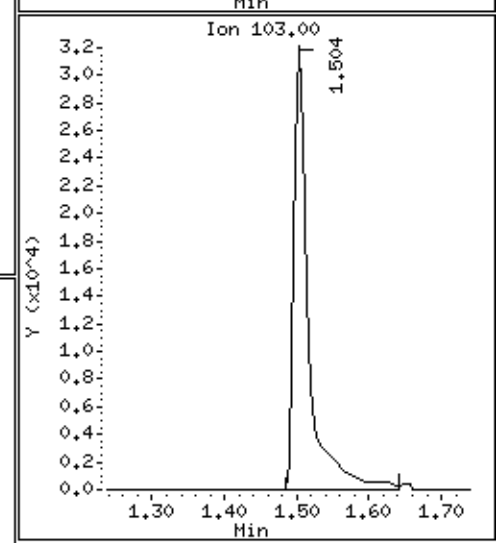
6 Trichlorofluoromethane

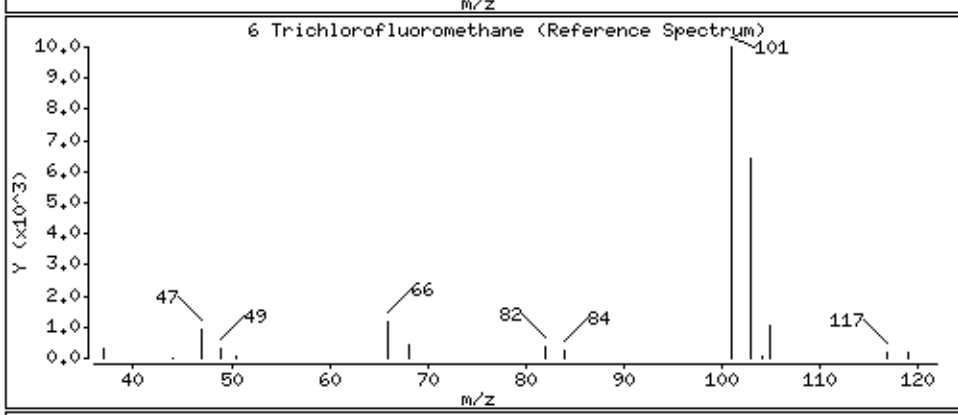
Concentration: 51.4 ppb

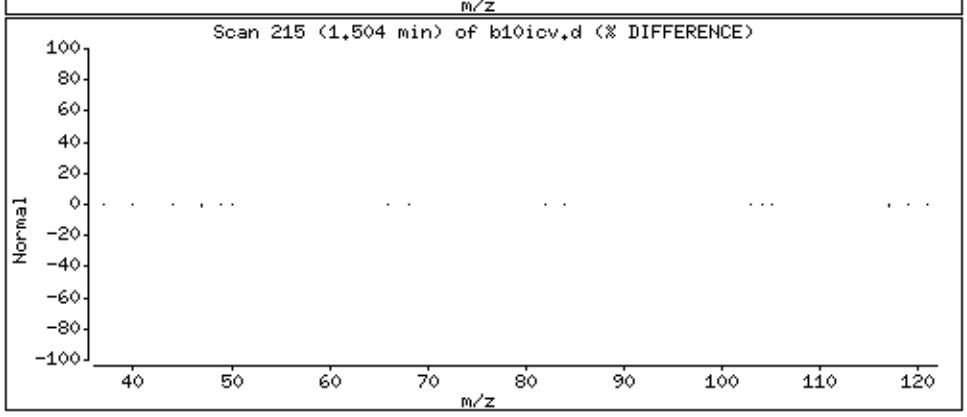












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

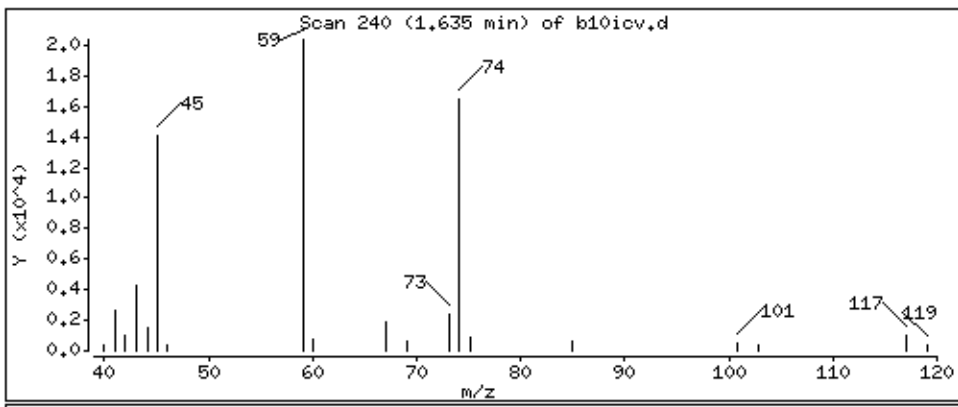
Operator: TMW

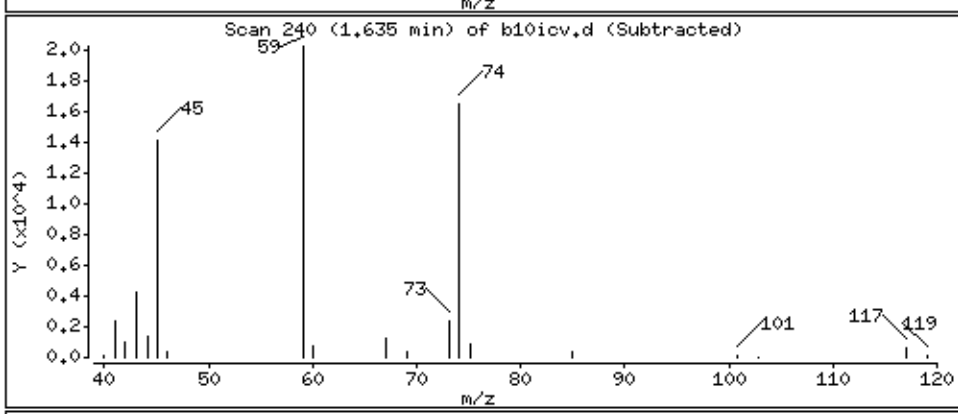
Column phase: DB-624

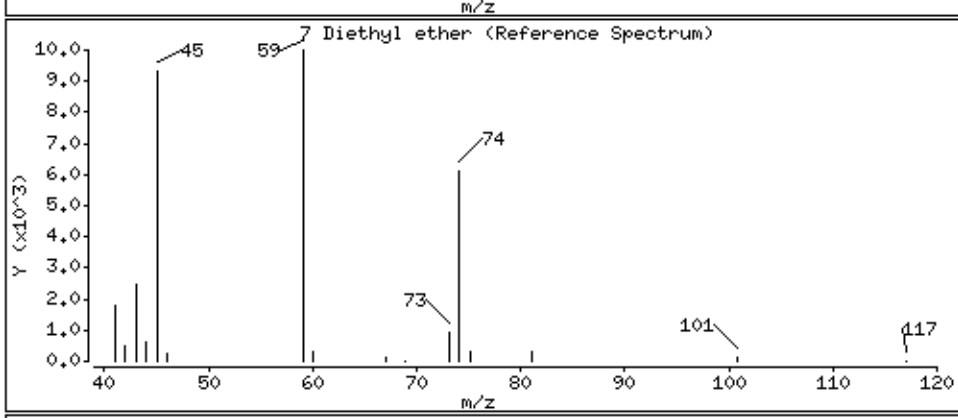
Column diameter: 0.18

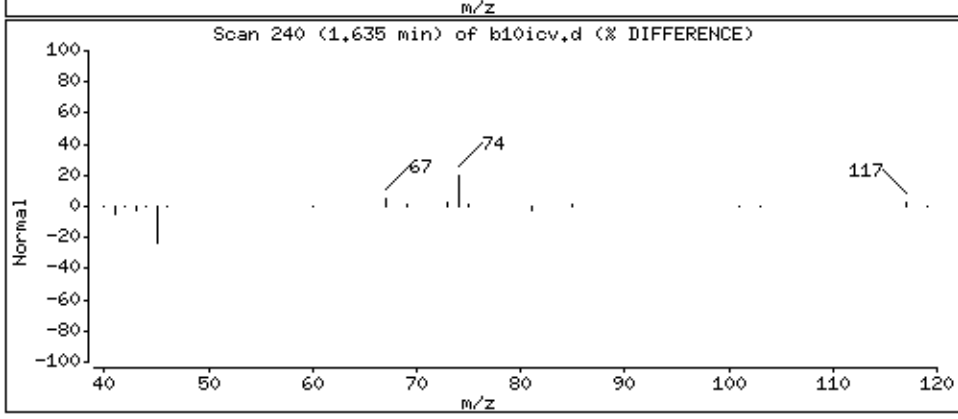
7 Diethyl ether

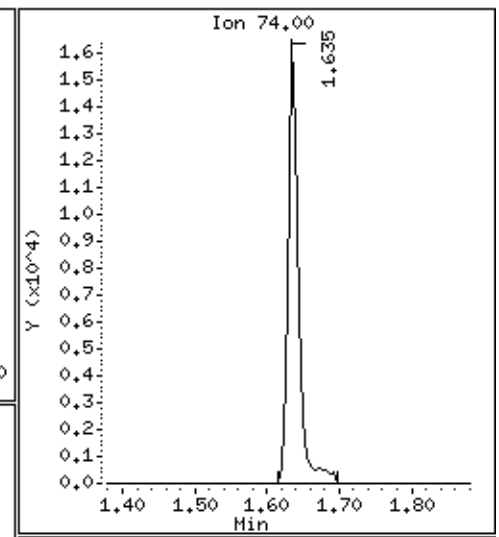
Concentration: 52.0 ppb

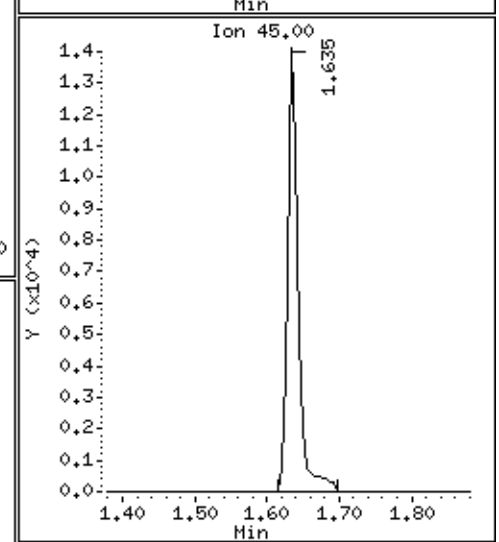


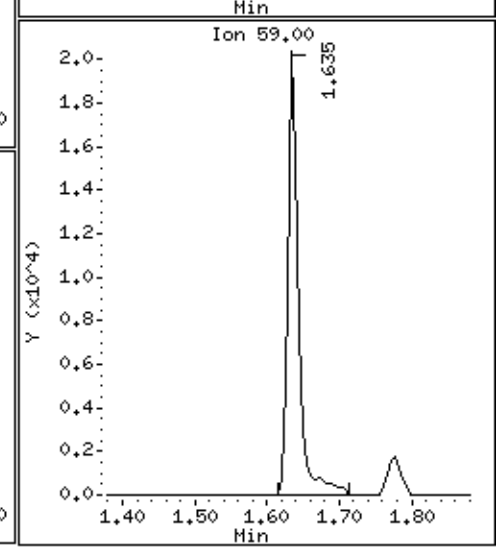












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

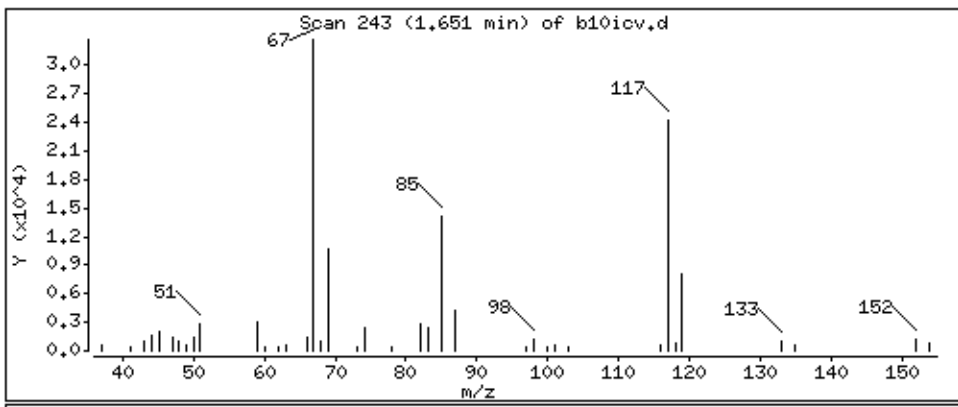
Operator: TMW

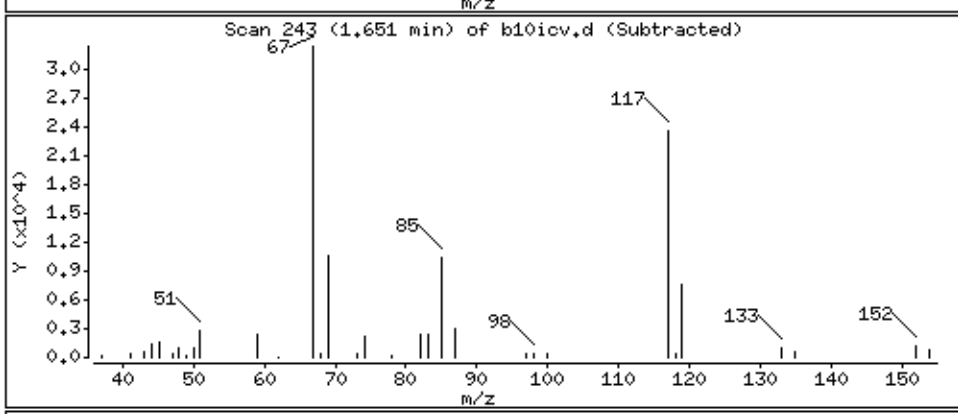
Column phase: DB-624

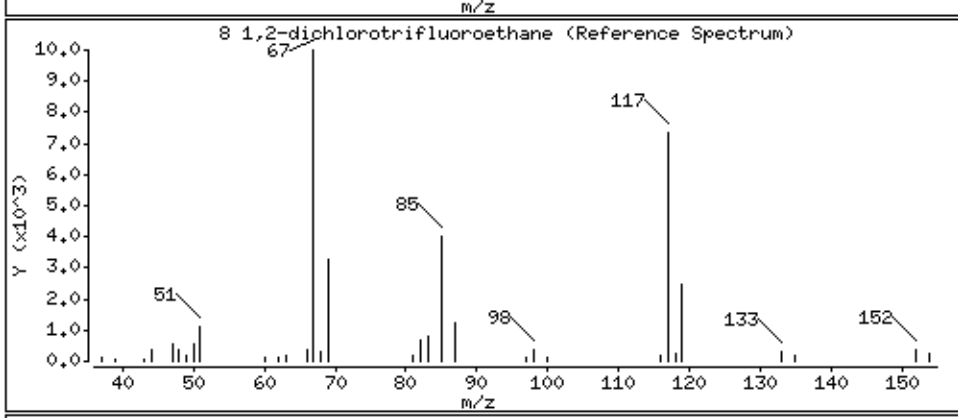
Column diameter: 0.18

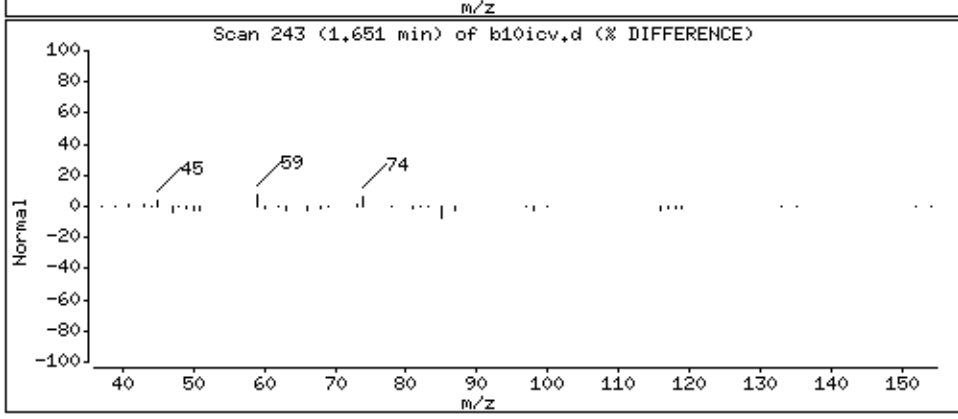
8 1,2-dichlorotrifluoroethane

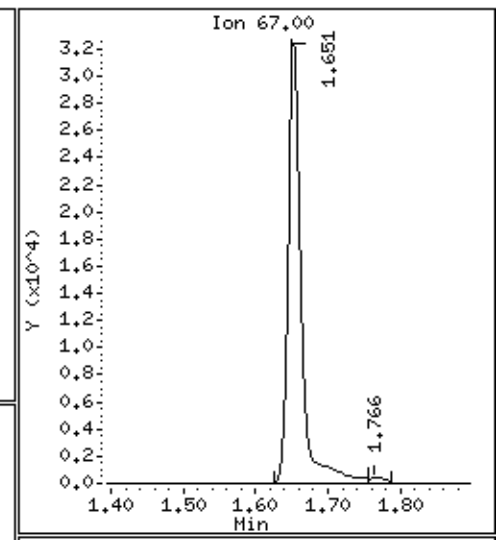
Concentration: 52.8 ppb

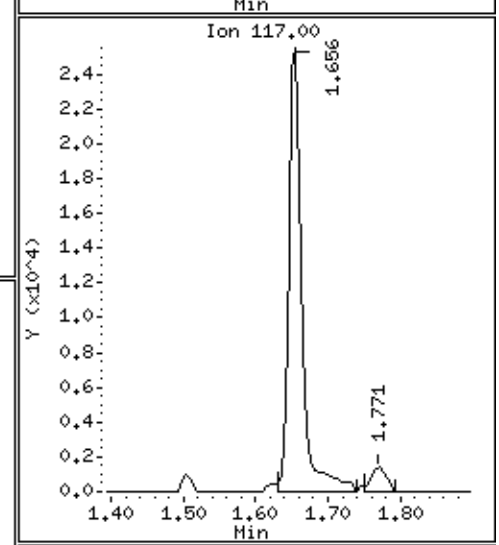


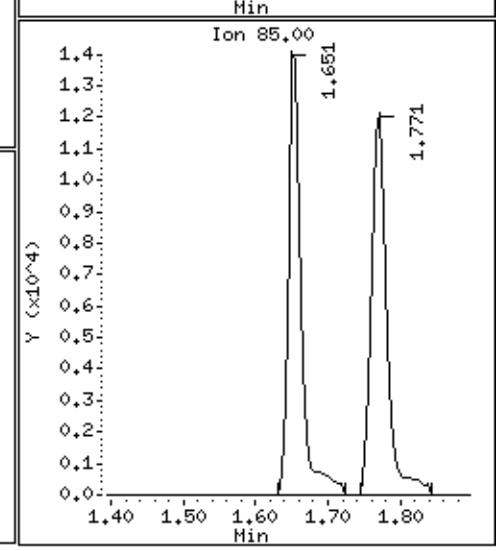












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

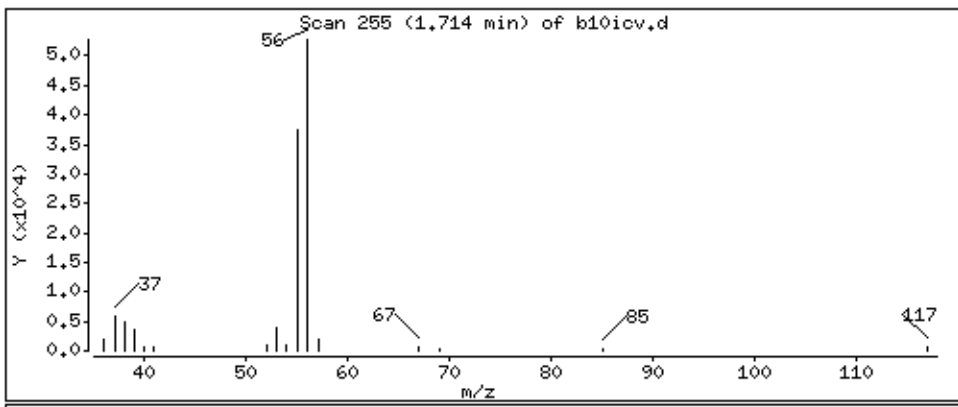
Operator: TMW

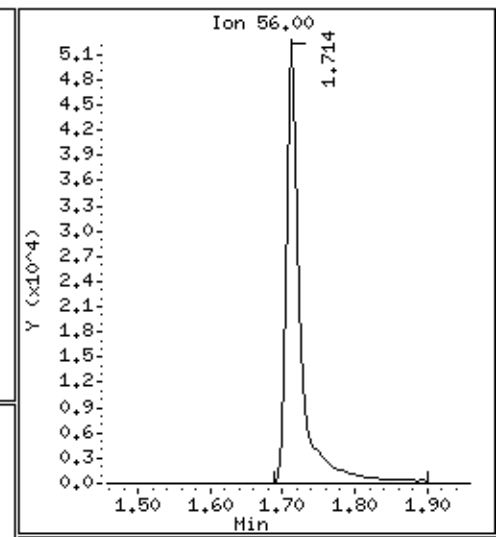
Column phase: DB-624

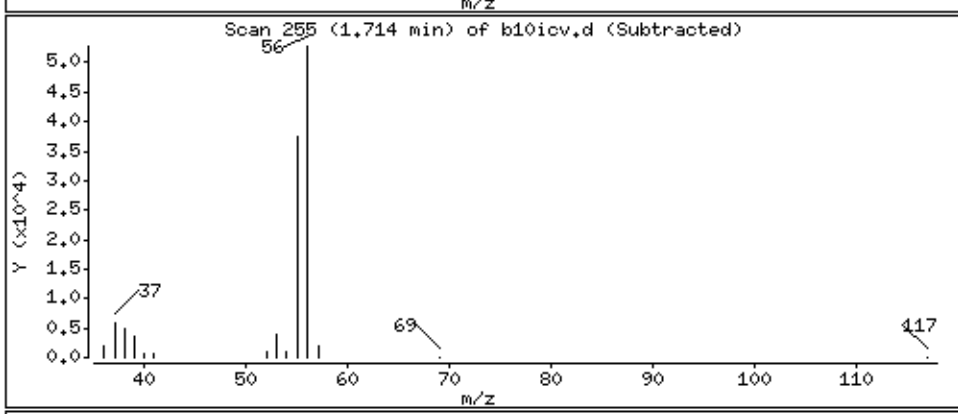
Column diameter: 0.18

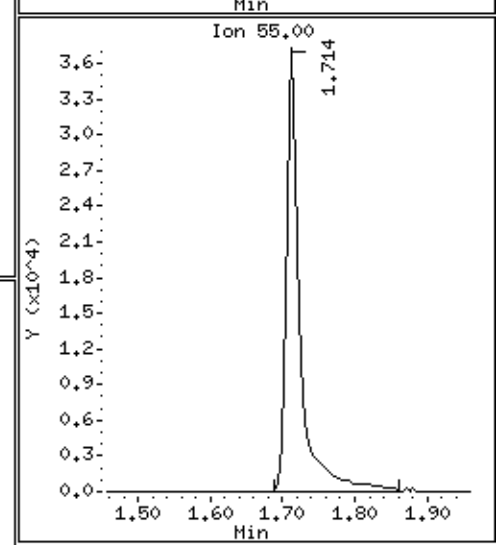
9 Acrolein

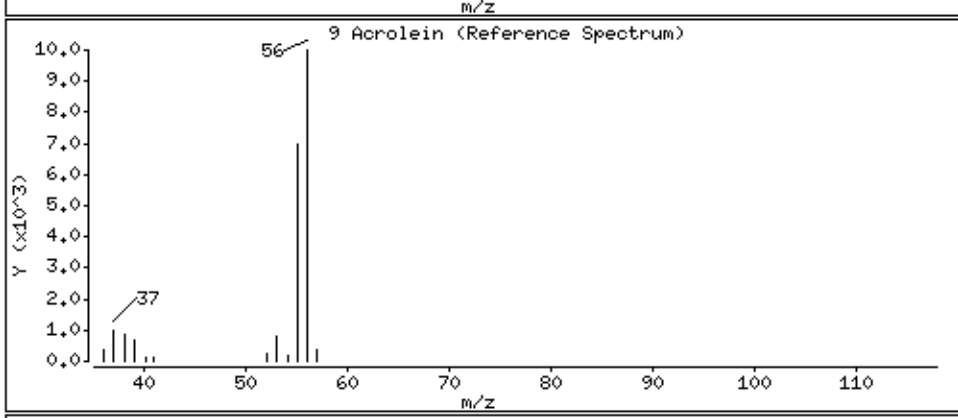
Concentration: 1200 ppb

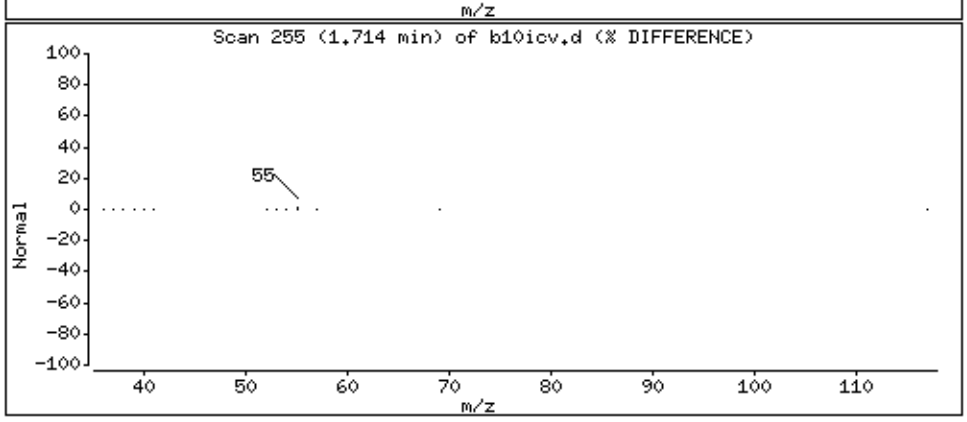












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

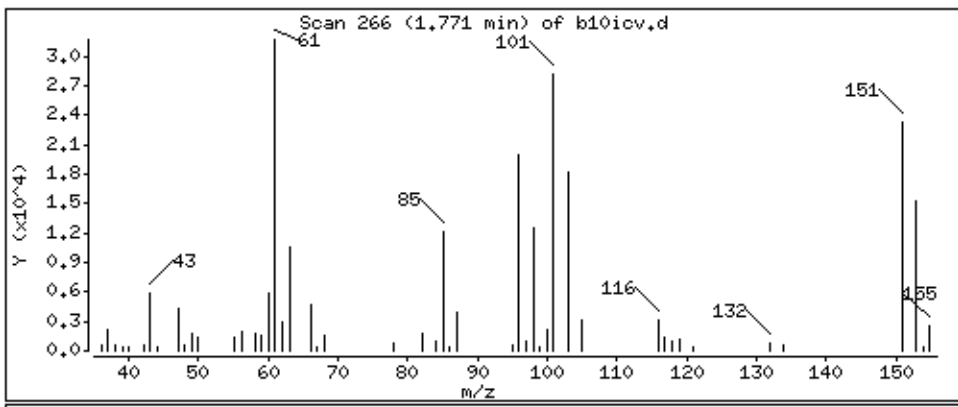
Operator: TMW

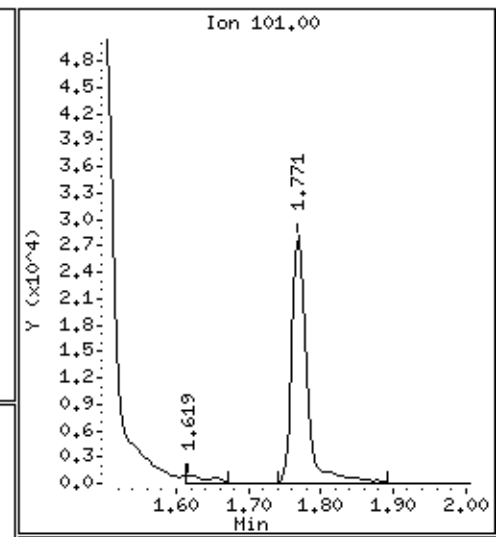
Column phase: DB-624

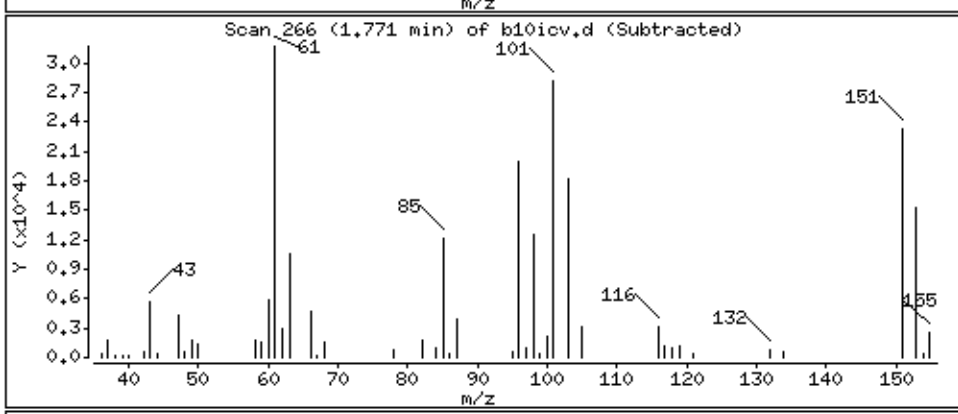
Column diameter: 0.18

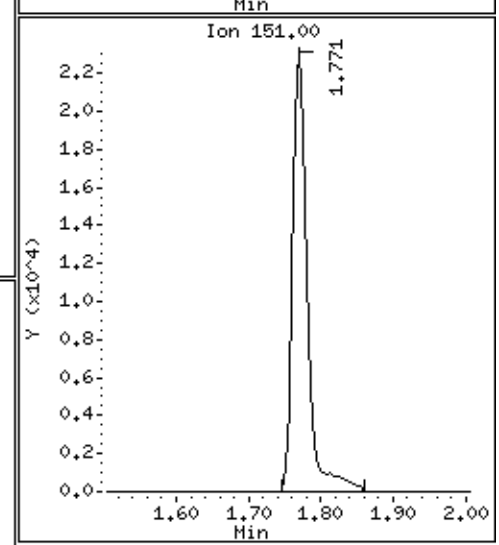
10 1,1,2trichlorotrifluoroethane

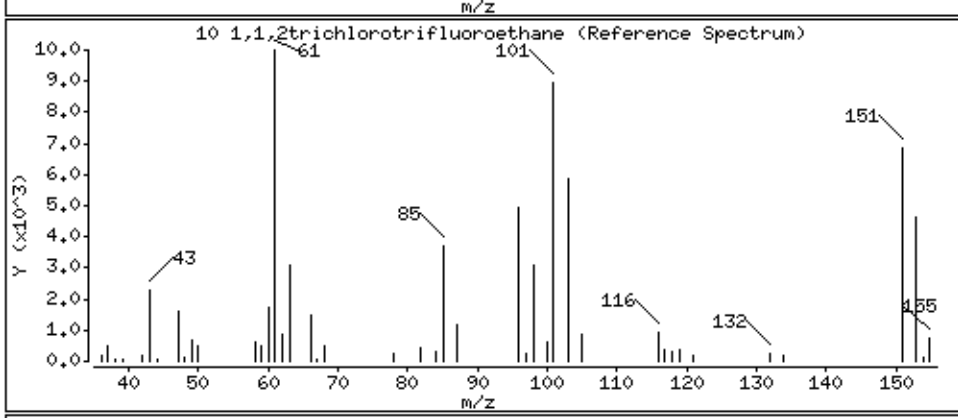
Concentration: 51.5 ppb

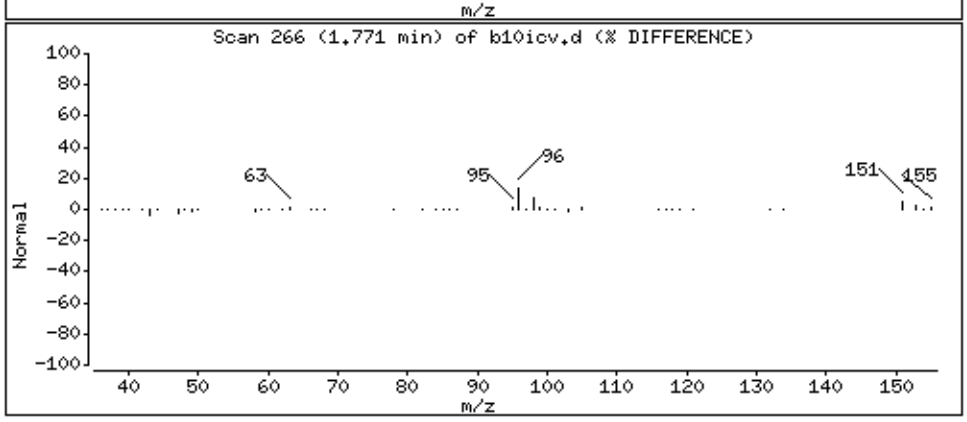












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

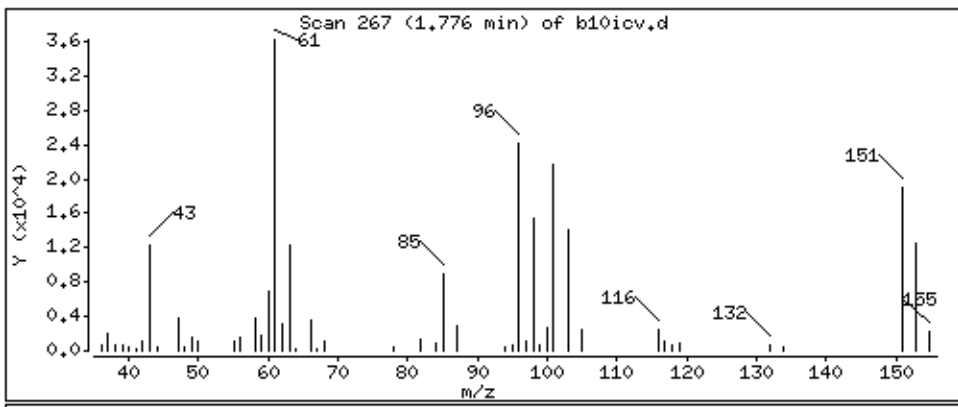
Operator: TMW

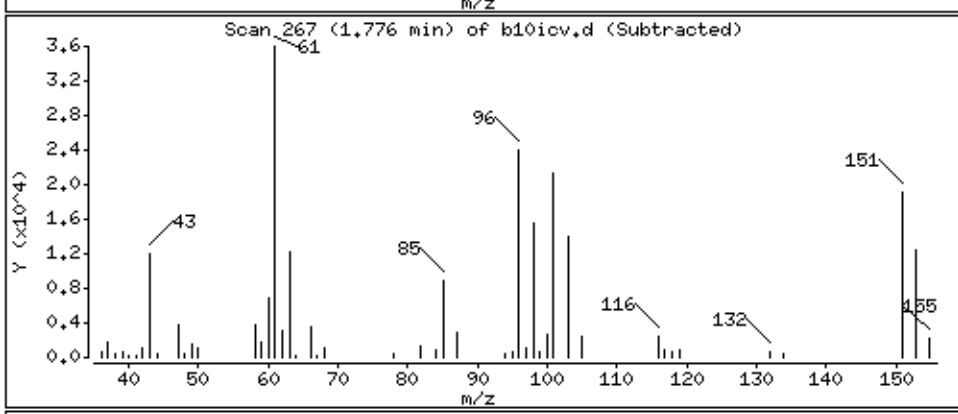
Column phase: DB-624

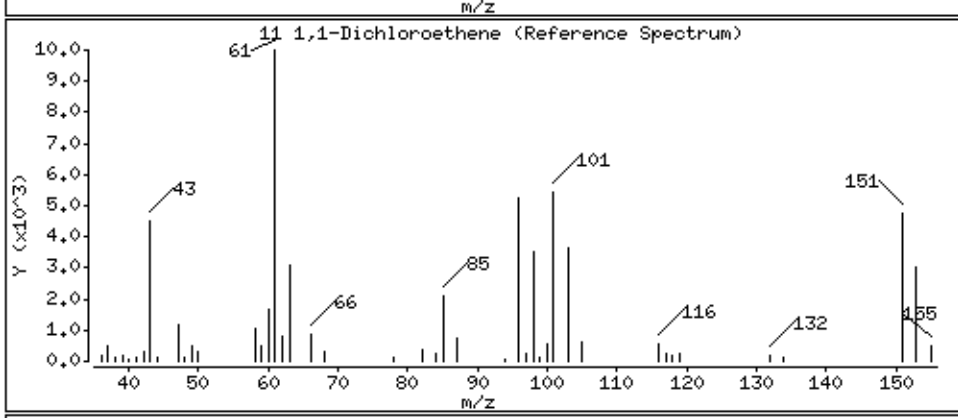
Column diameter: 0.18

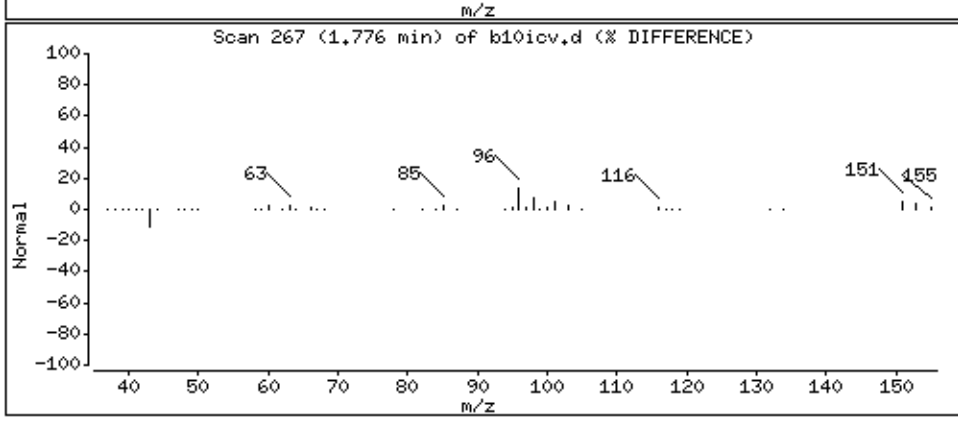
11 1,1-Dichloroethene

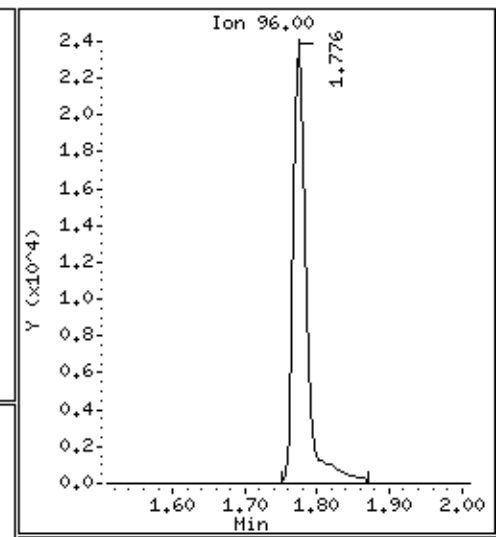
Concentration: 46.0 ppb

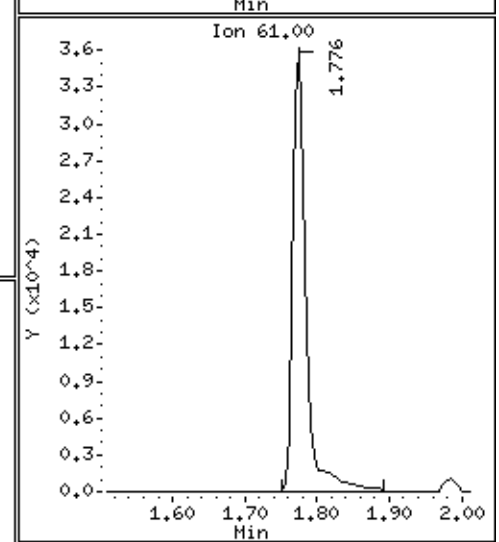


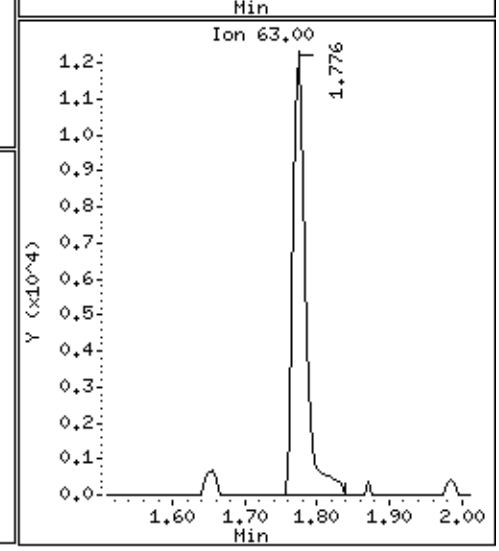












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

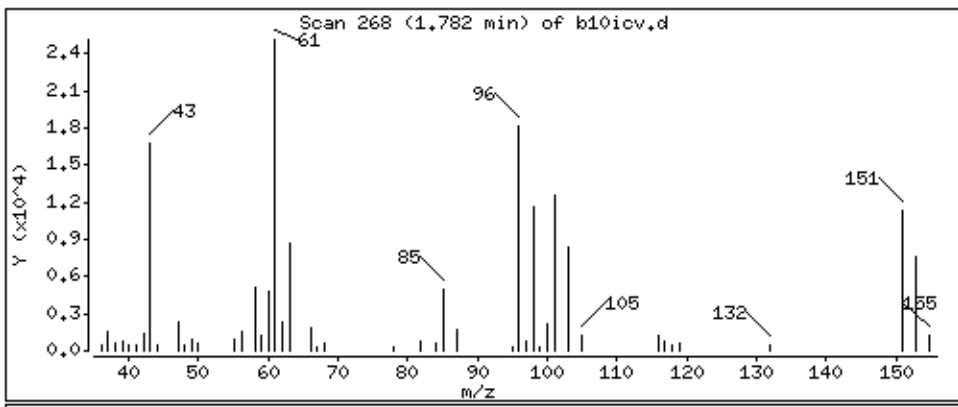
Operator: TMW

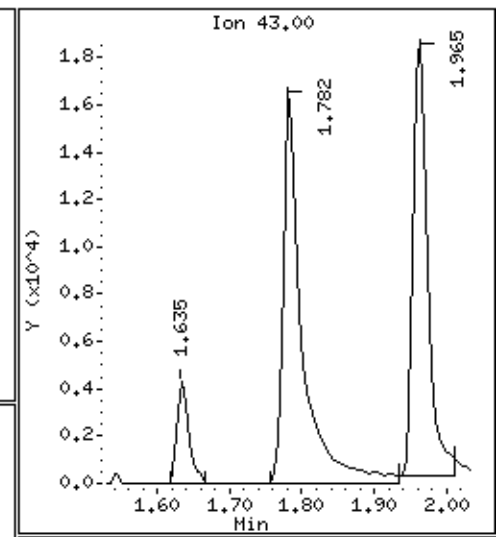
Column phase: DB-624

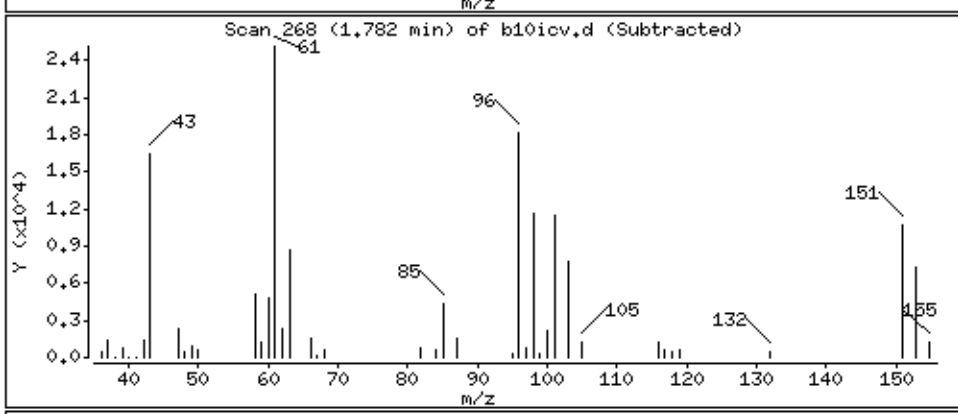
Column diameter: 0.18

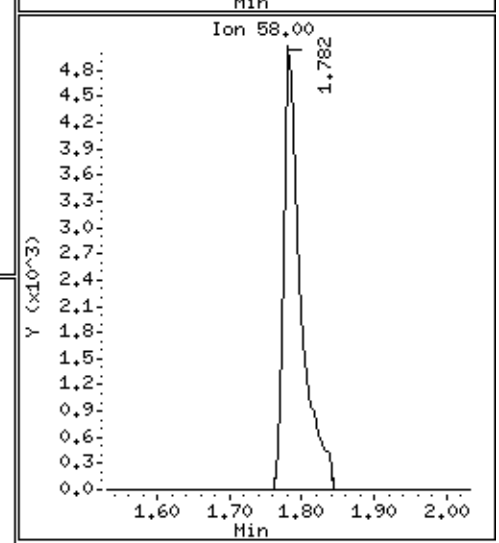
12 Acetone

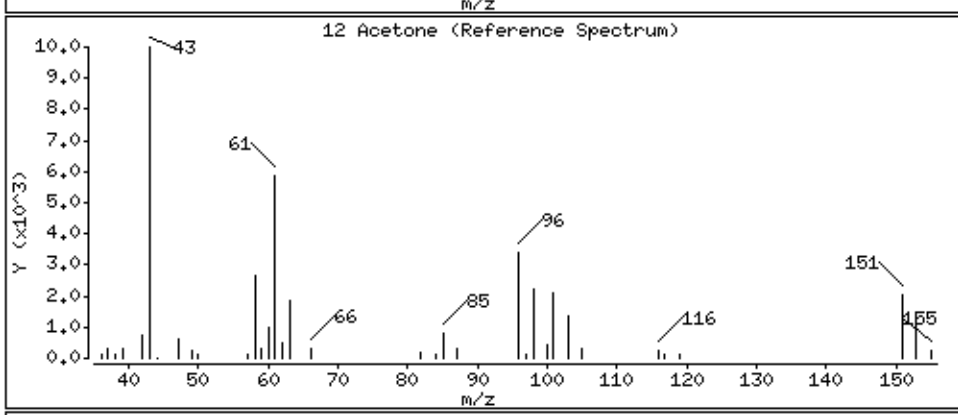
Concentration: 212 ppb

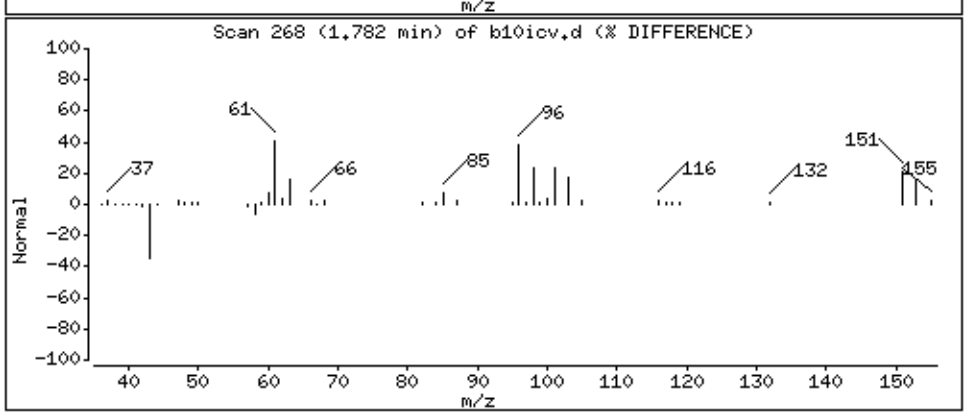












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Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

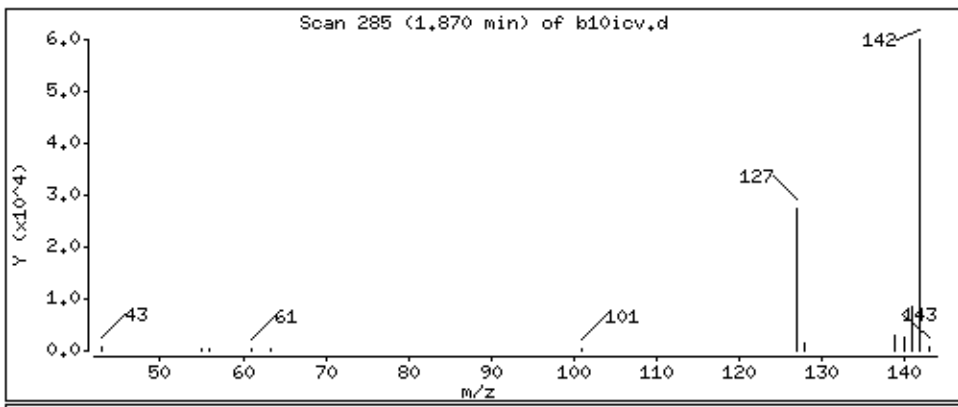
Operator: TMW

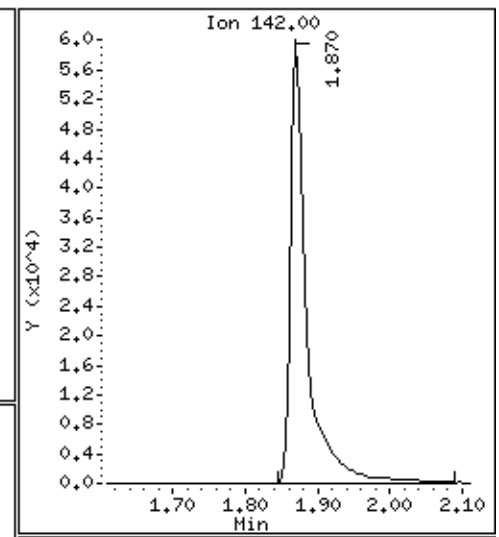
Column phase: DB-624

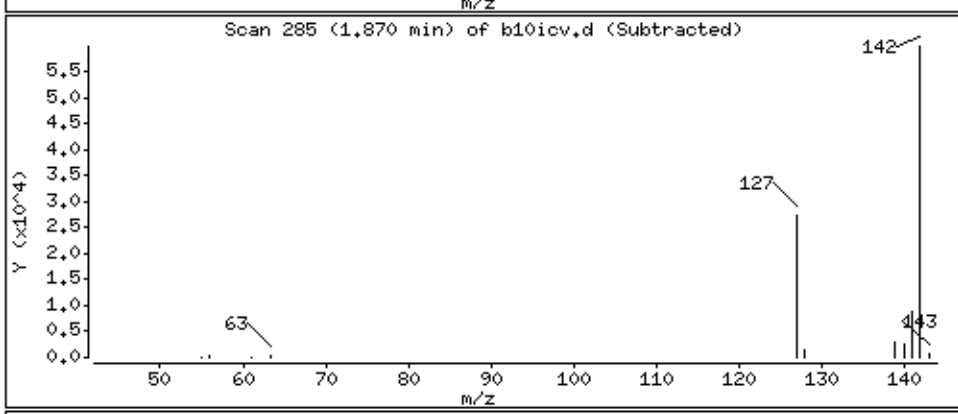
Column diameter: 0.18

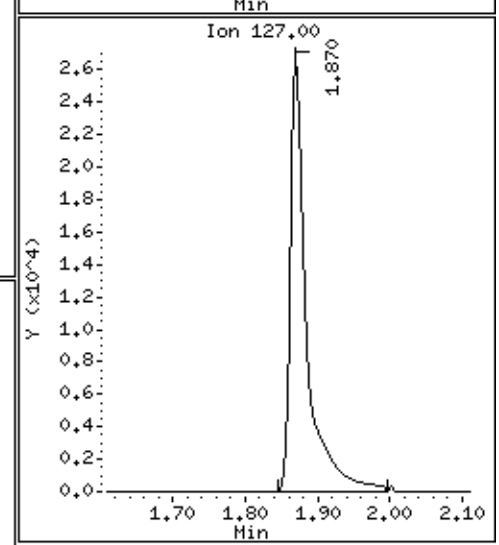
13 Iodomethane

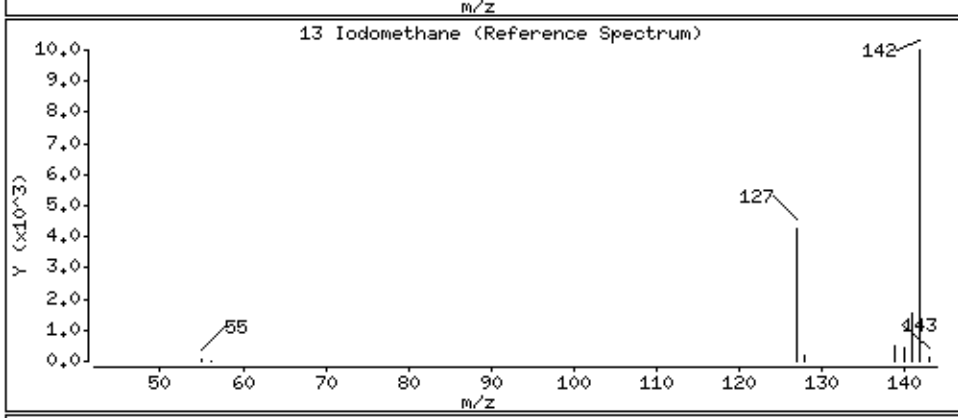
Concentration: 97.8 ppb

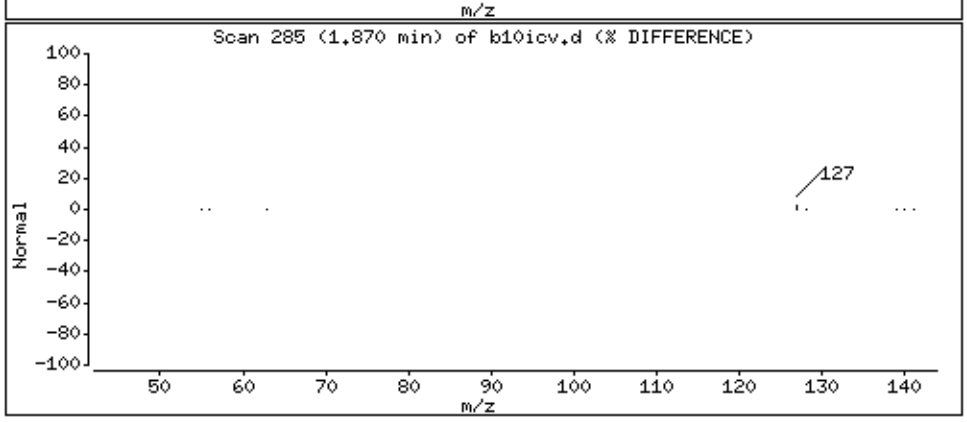












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

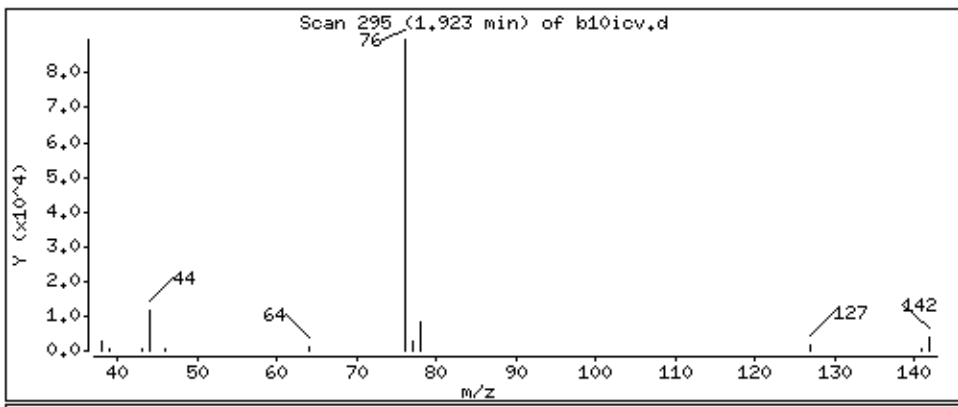
Operator: TMW

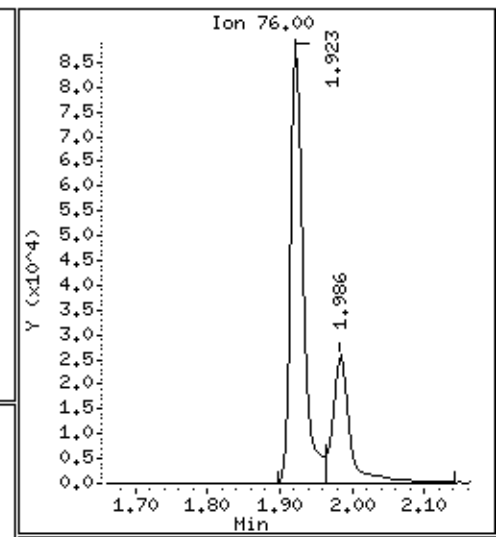
Column phase: DB-624

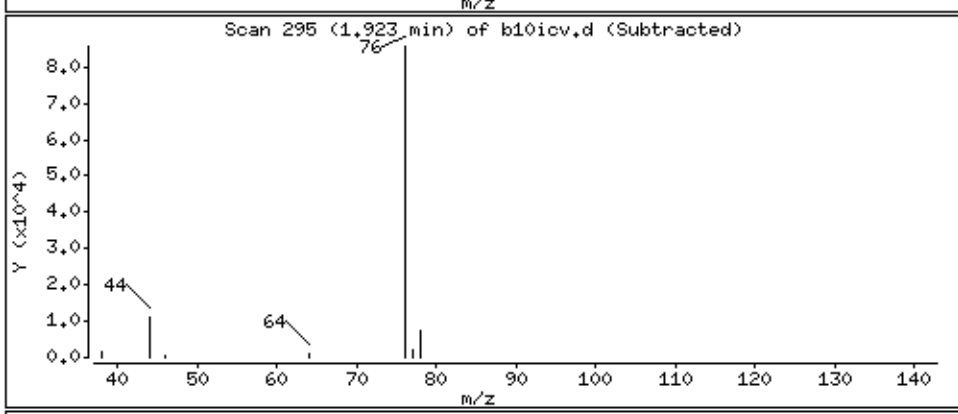
Column diameter: 0.18

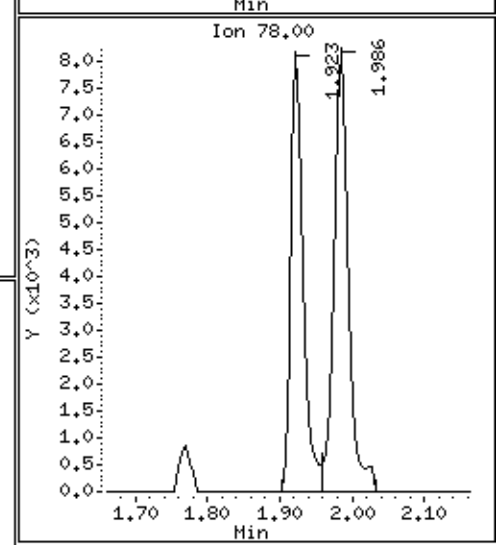
14 Carbon Disulfide

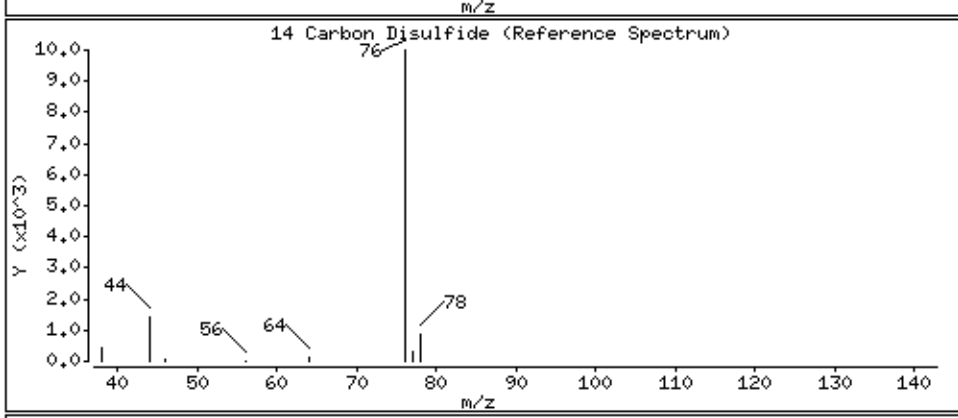
Concentration: 49.6 ppb

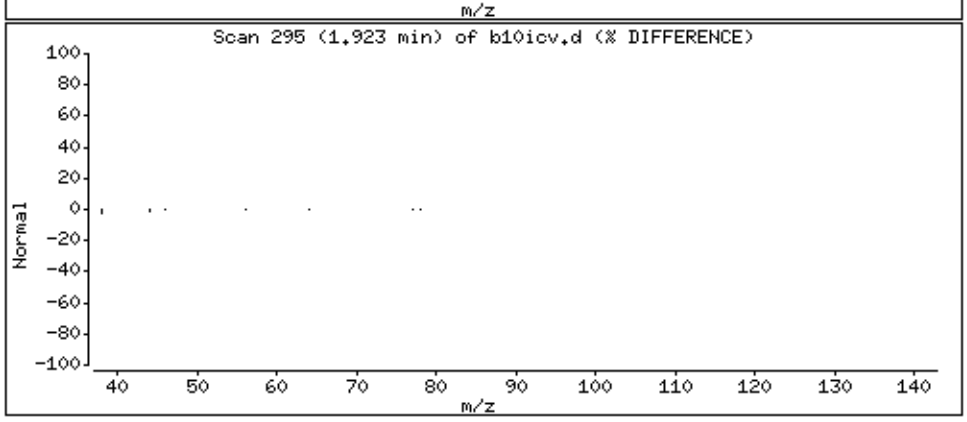












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

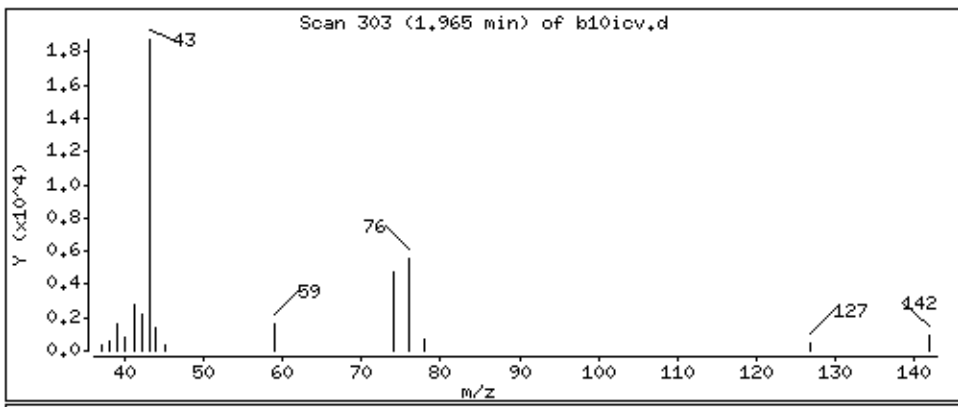
Operator: TMW

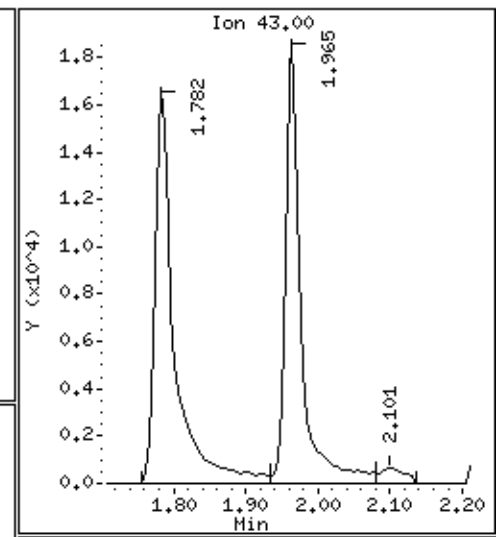
Column phase: DB-624

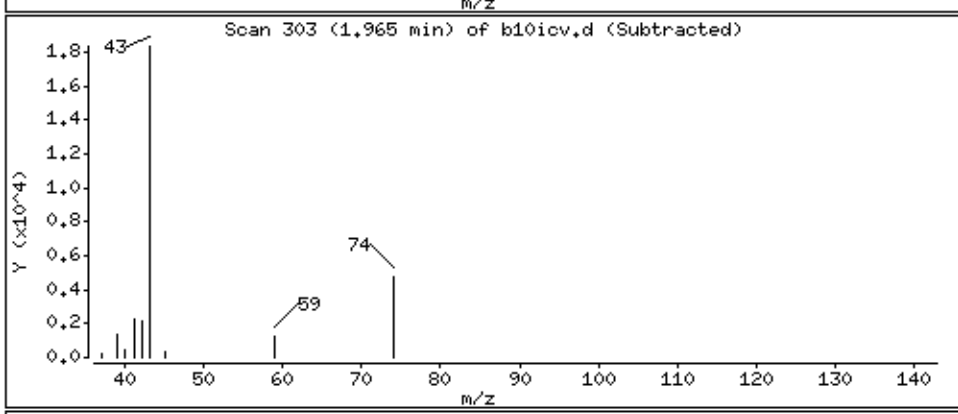
Column diameter: 0.18

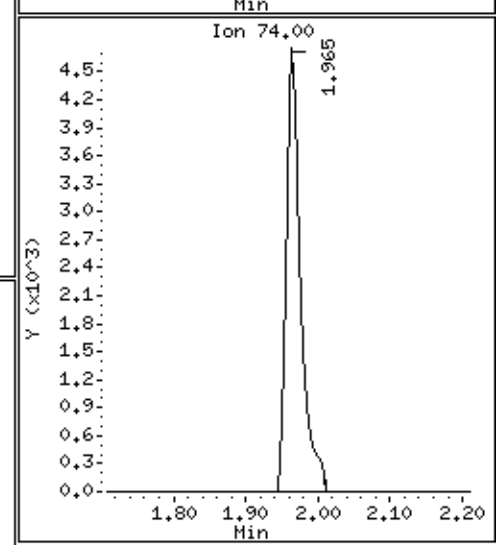
15 Methyl Acetate

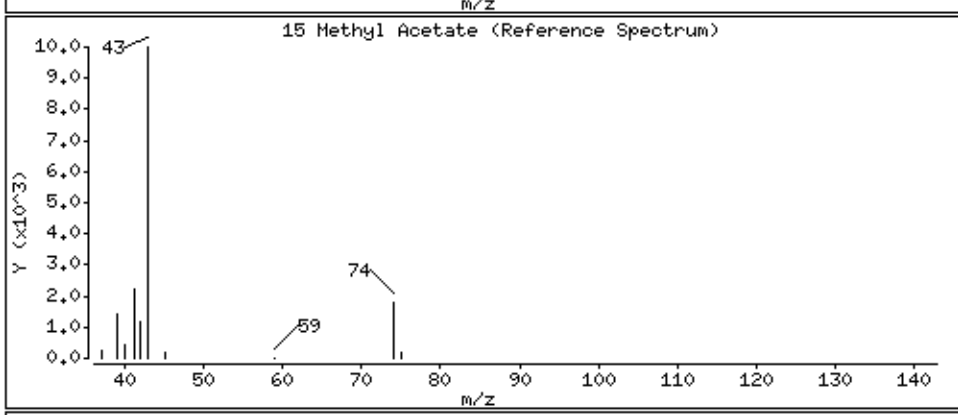
Concentration: 66.3 ppb

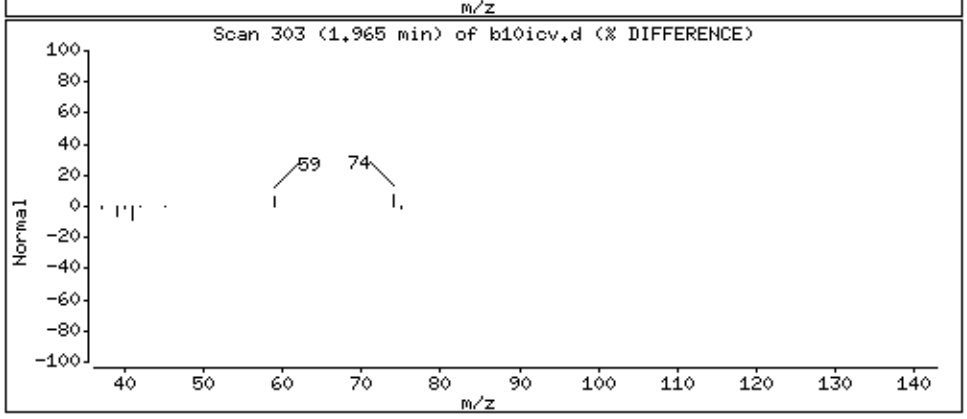












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

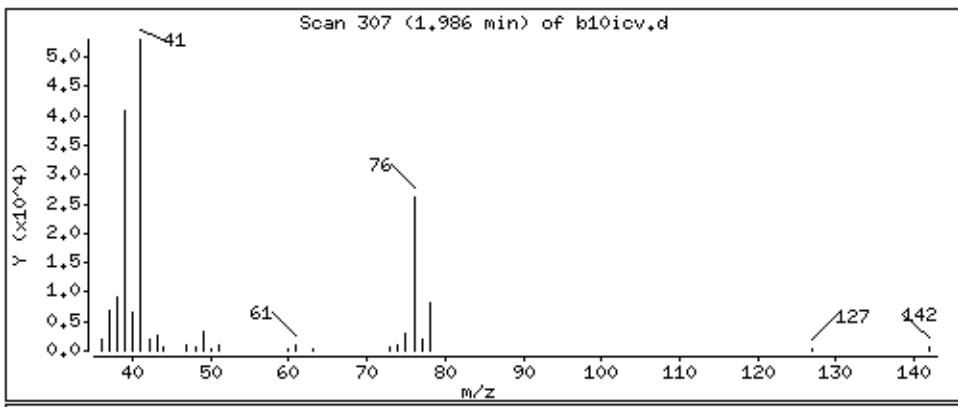
Operator: TMW

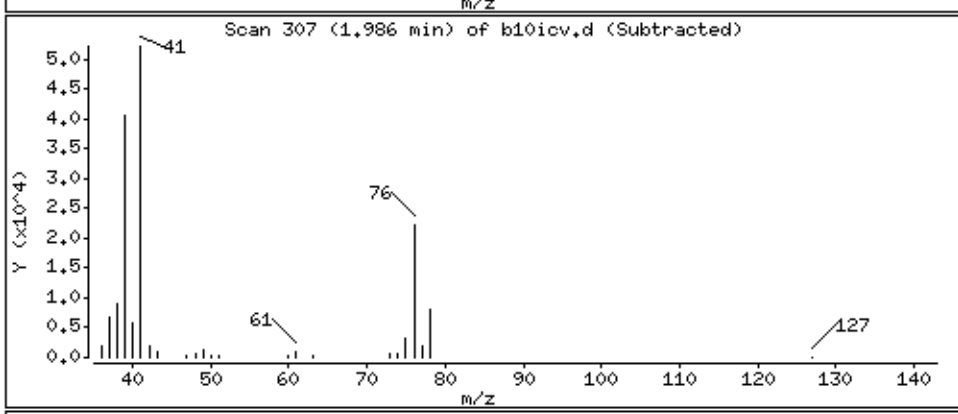
Column phase: DB-624

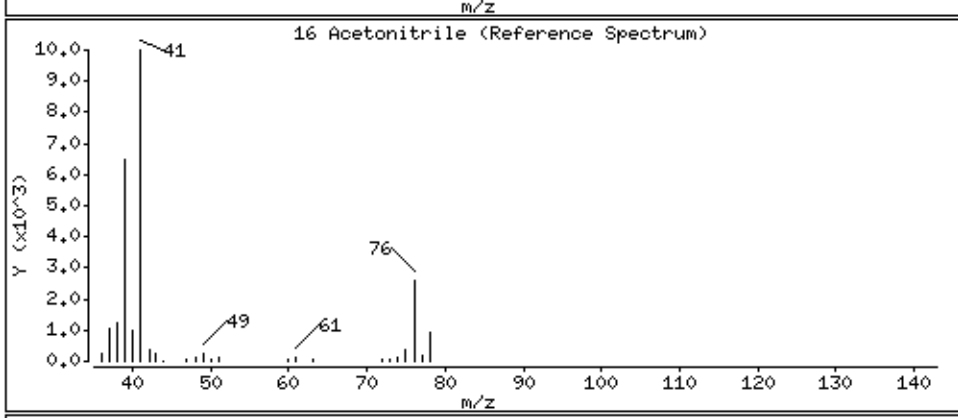
Column diameter: 0.18

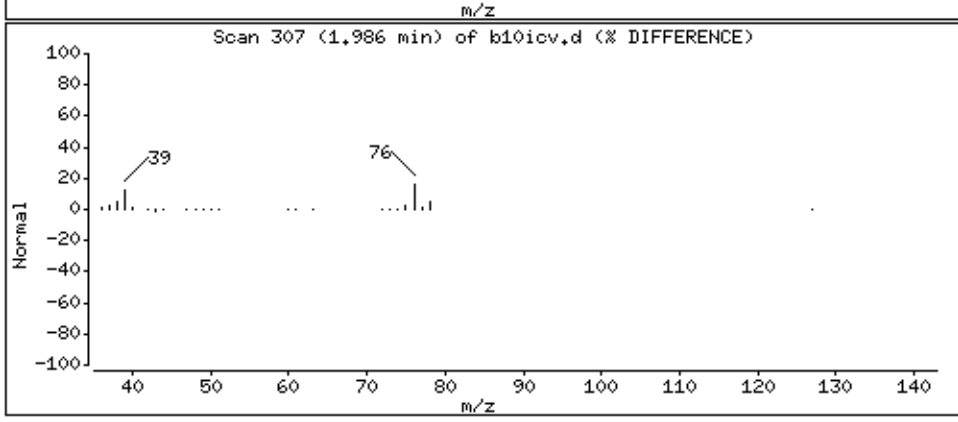
16 Acetonitrile

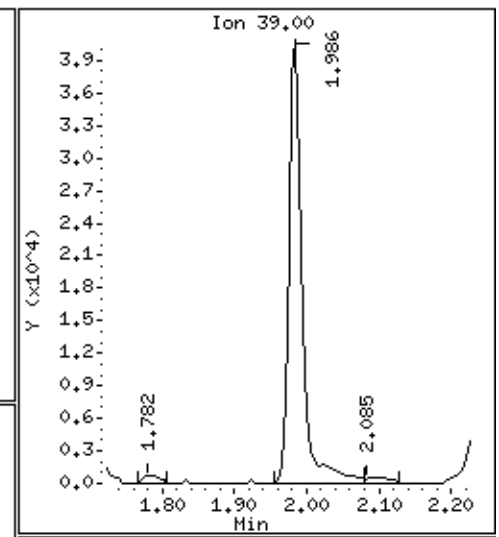
Concentration: 44.3 ppb

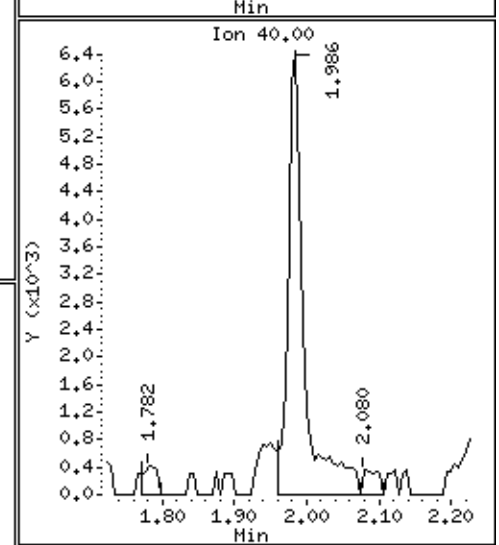


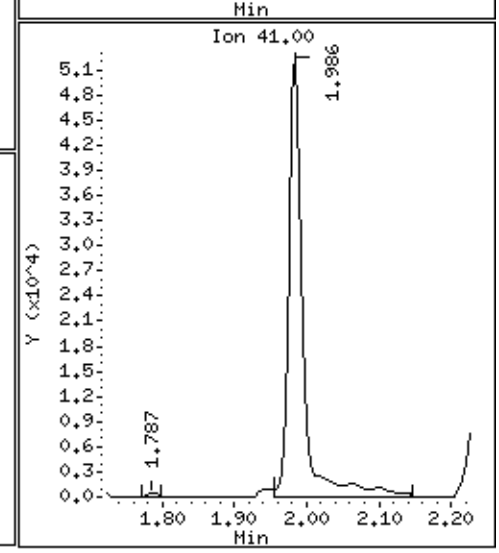












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

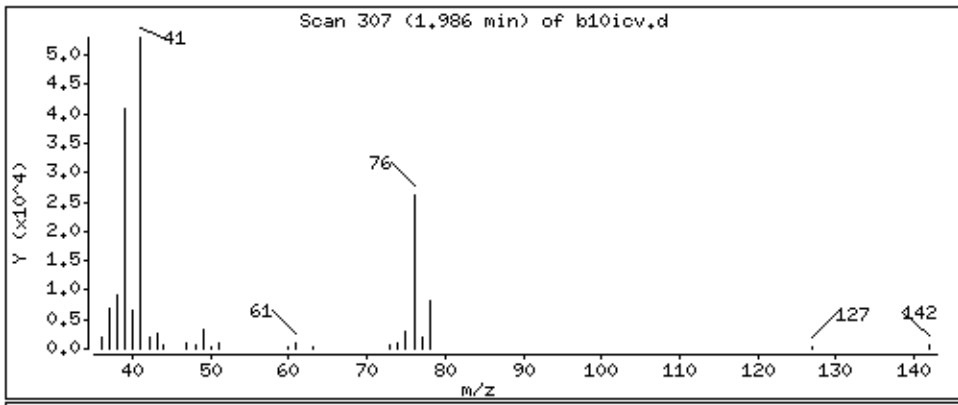
Client ID: 8260-ICV,139204:0 Instrument: 50mv5b.i

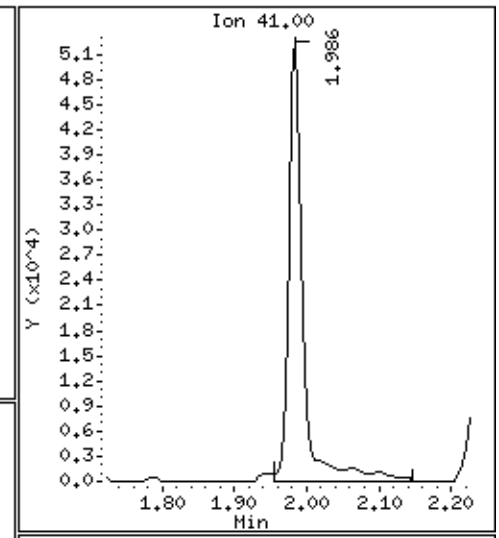
Sample Info: 8260-ICV,139204:0

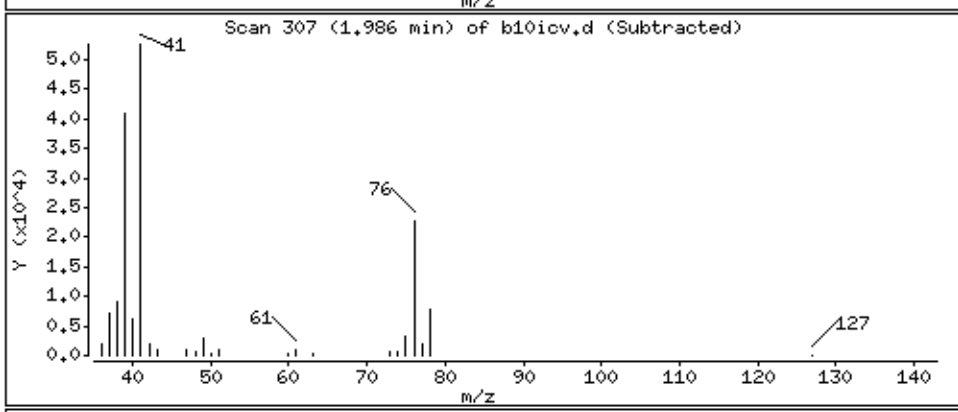
Purge Volume: 5.0 Operator: TMW

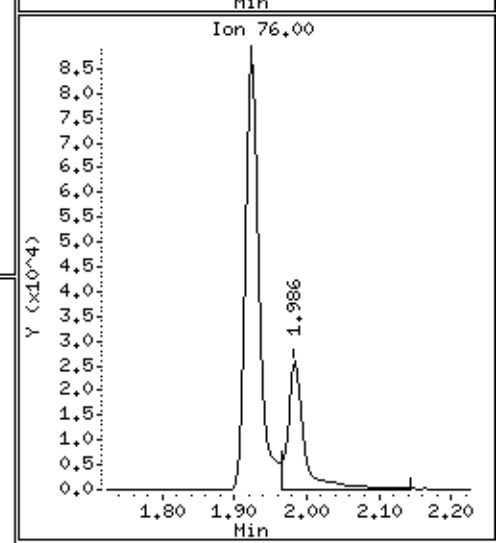
Column phase: DB-624 Column diameter: 0.18

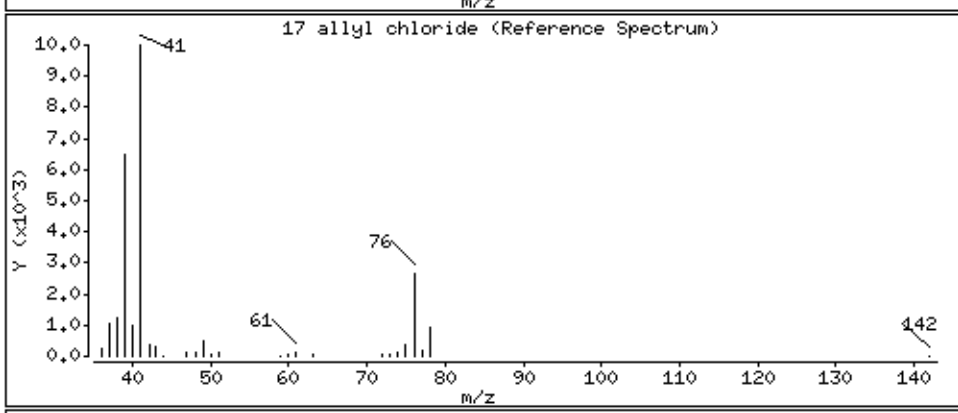
17 allyl chloride Concentration: 93.0 ppb

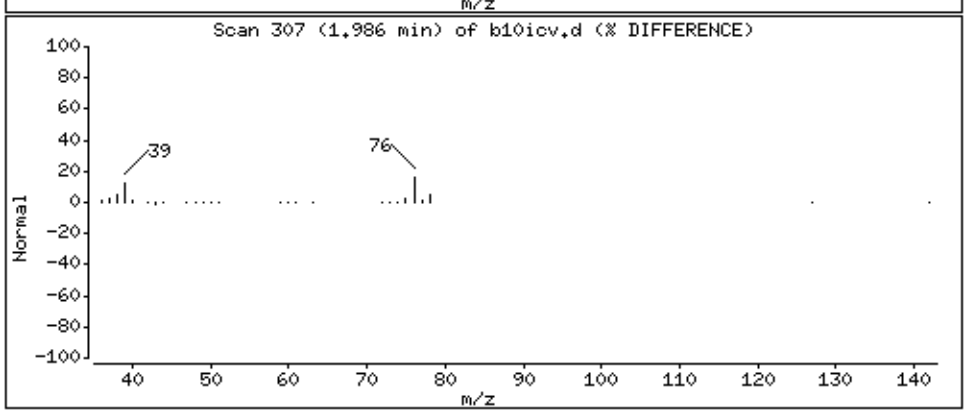












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

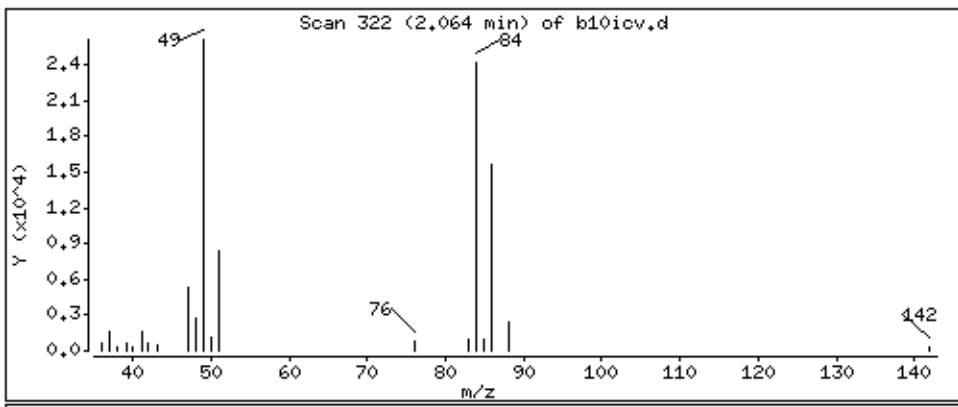
Operator: TMW

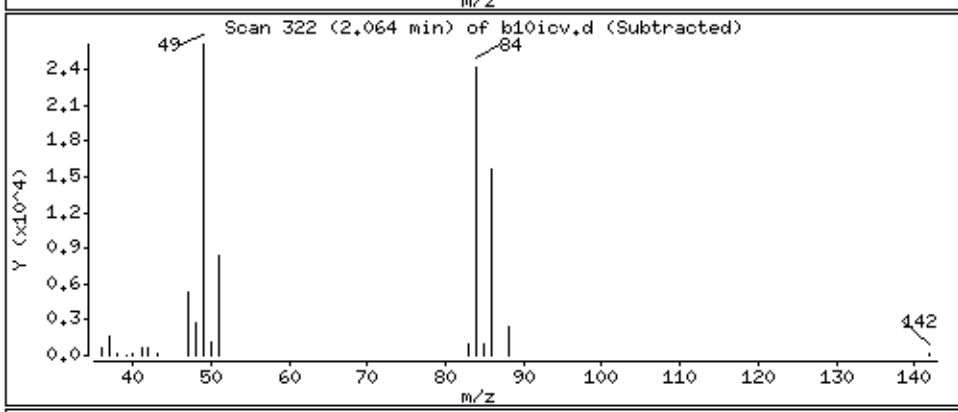
Column phase: DB-624

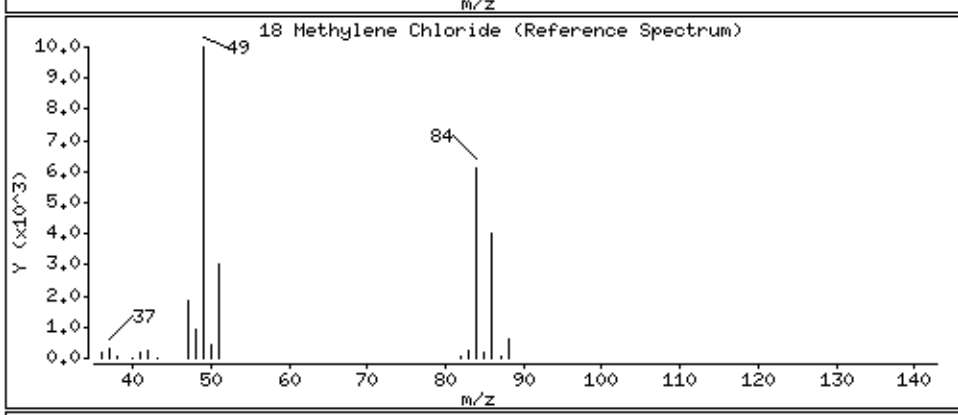
Column diameter: 0.18

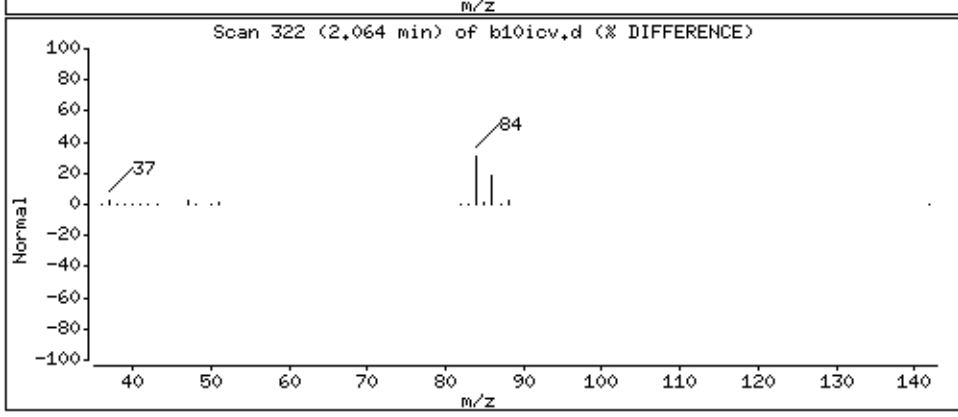
18 Methylene Chloride

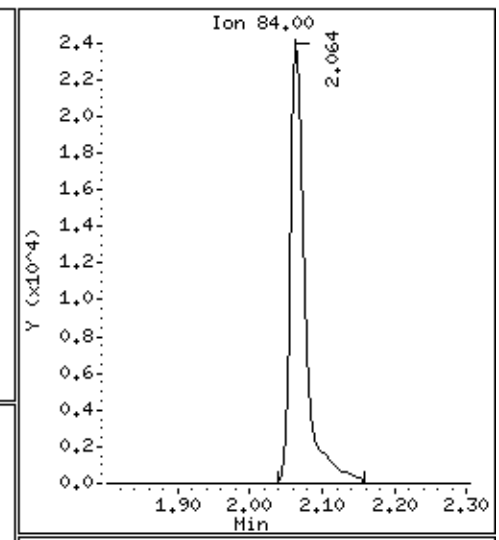
Concentration: 46.5 ppb

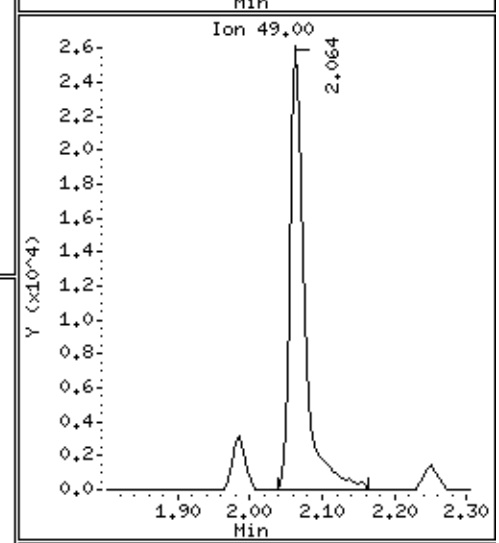


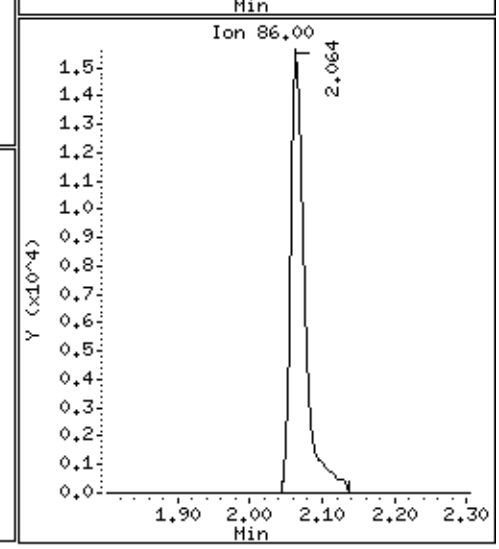












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

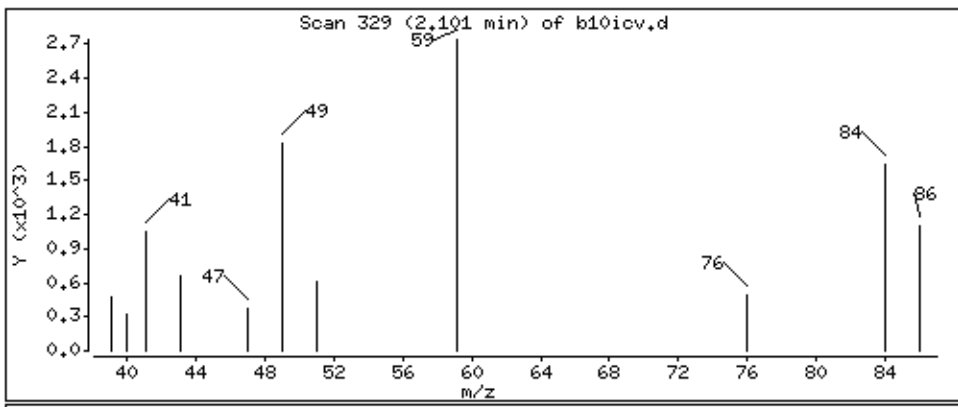
Operator: TMW

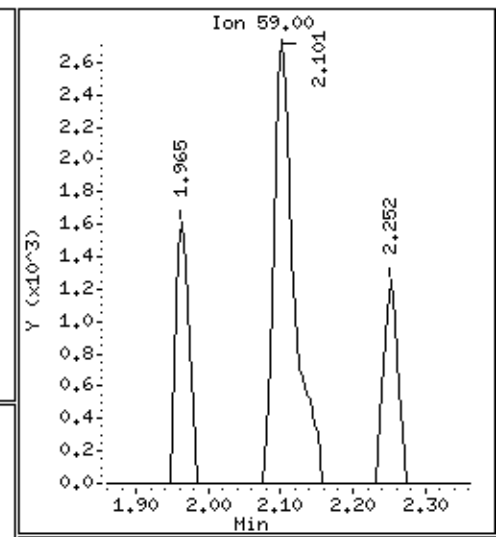
Column phase: DB-624

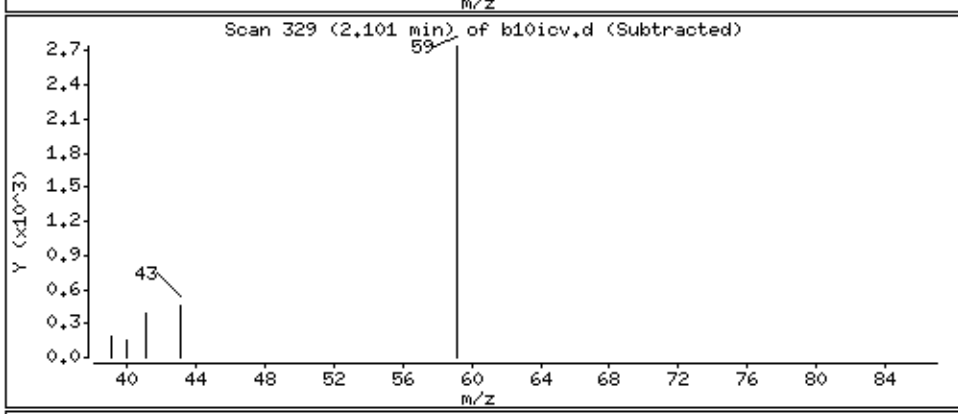
Column diameter: 0.18

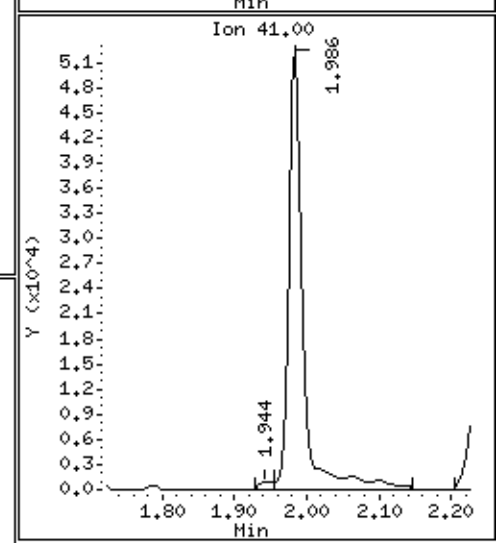
19 tert-Butyl Alcohol

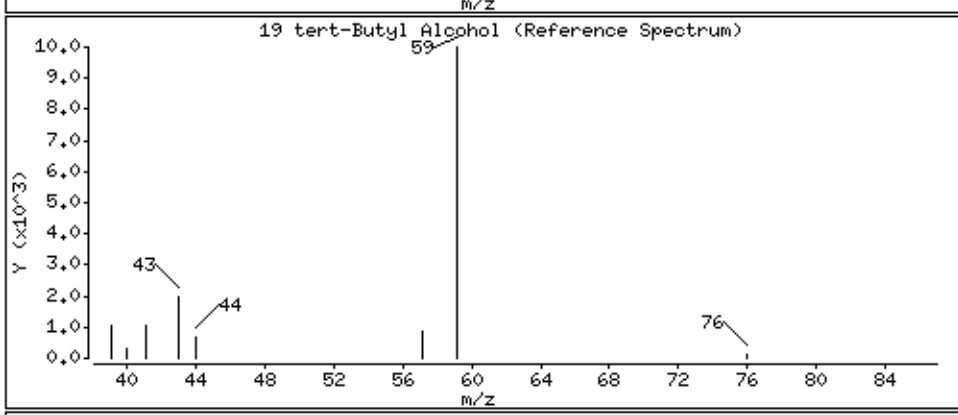
Concentration: 99.0 ppb

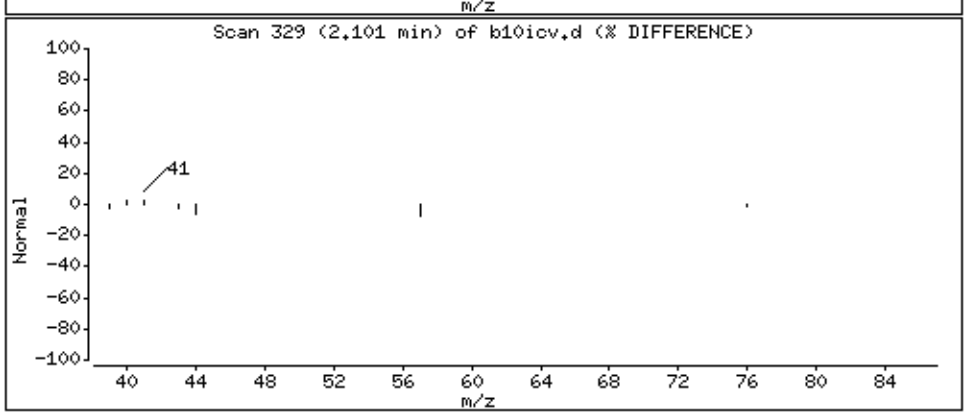












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

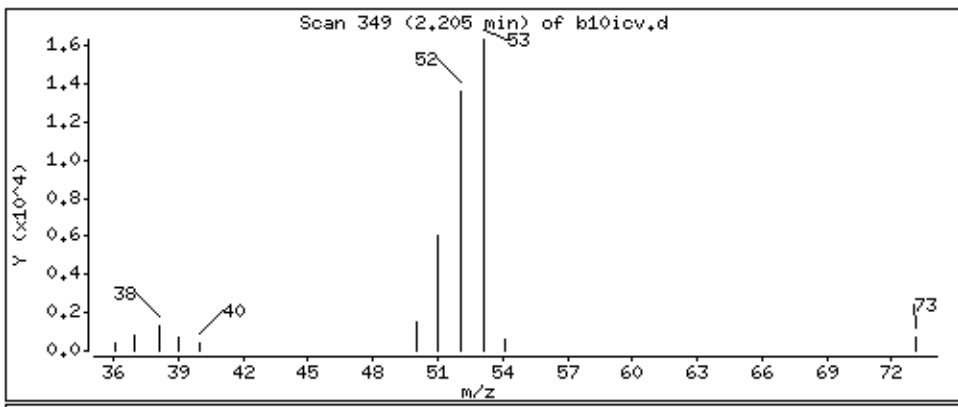
Operator: TMW

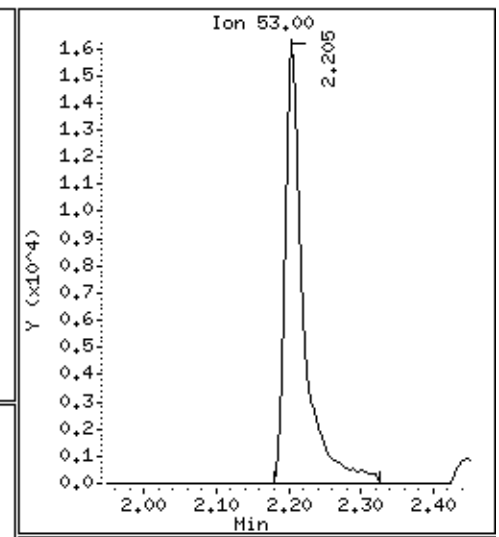
Column phase: DB-624

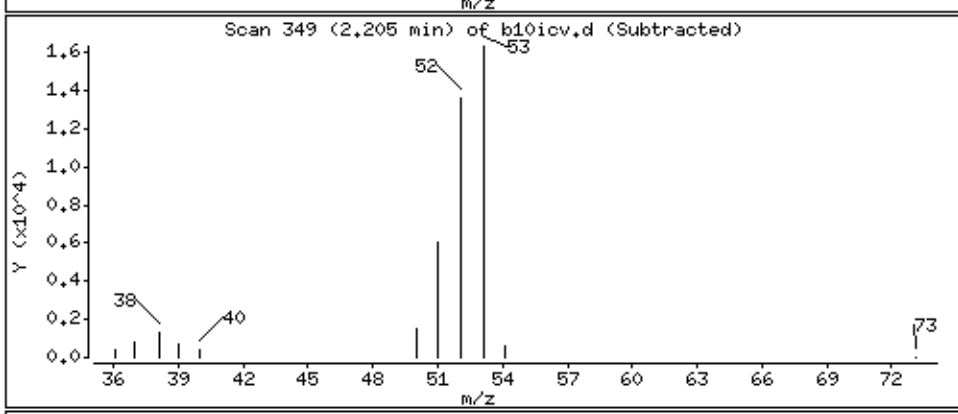
Column diameter: 0.18

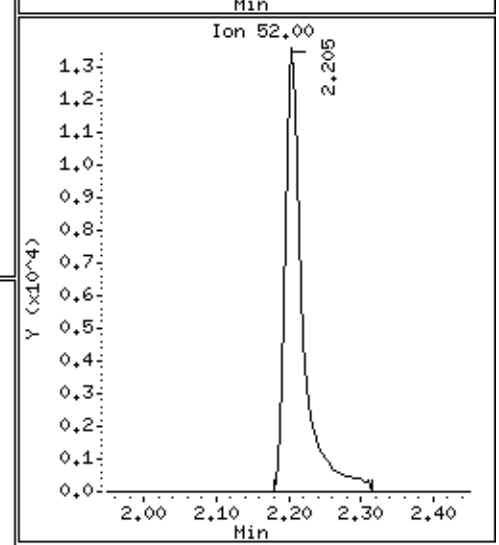
20 Acrylonitrile

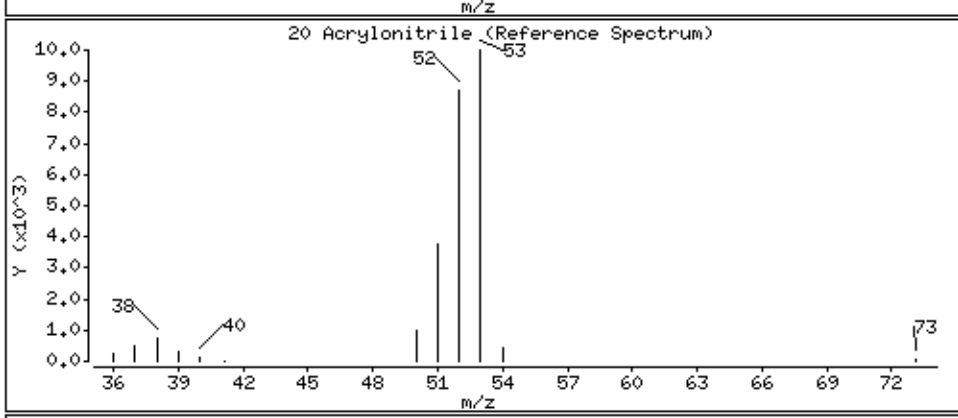
Concentration: 188 ppb

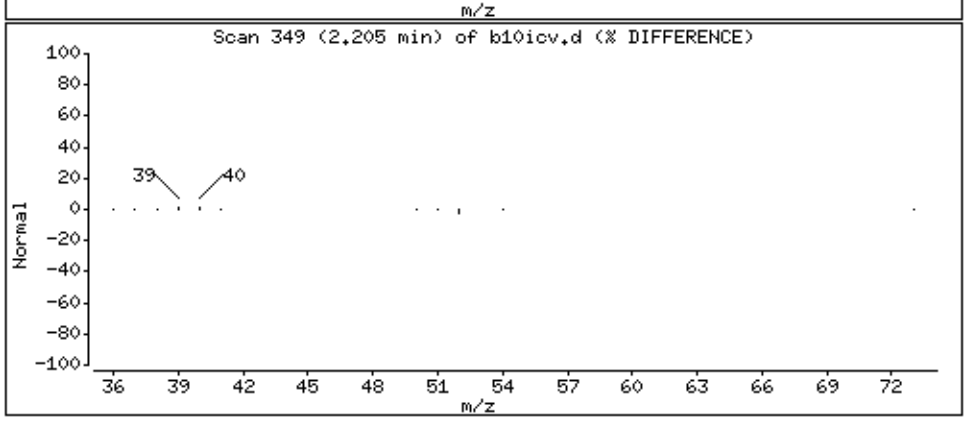












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

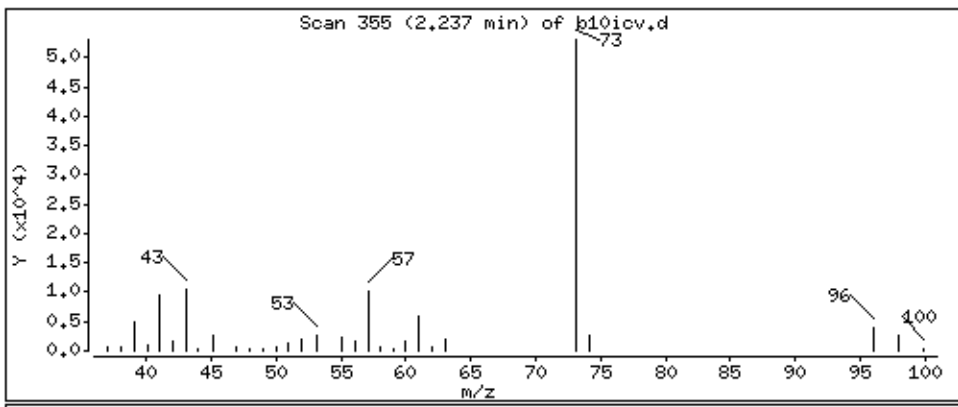
Operator: TMW

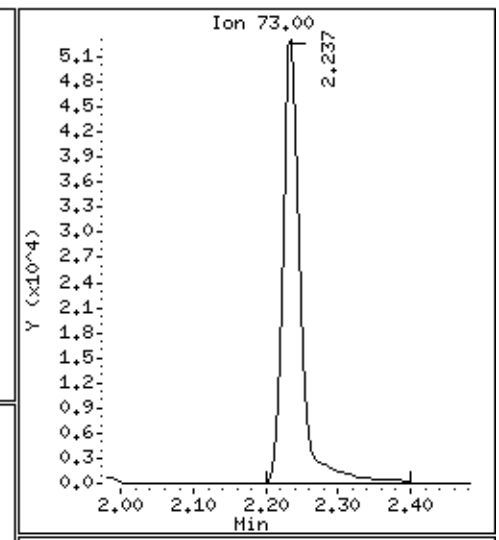
Column phase: DB-624

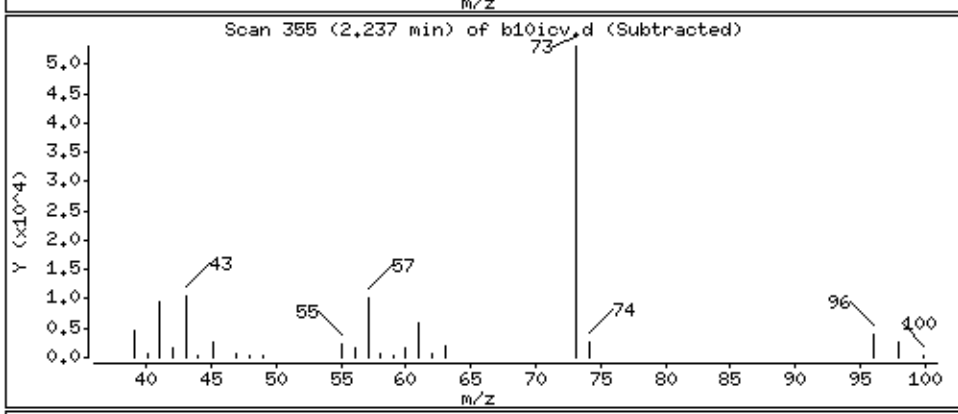
Column diameter: 0.18

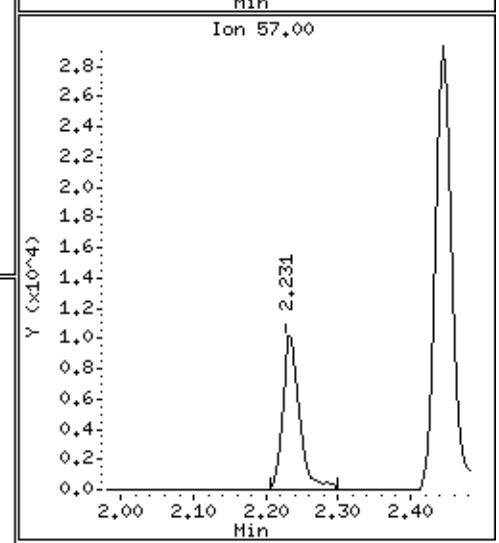
21 Methyl-tert-butyl ether

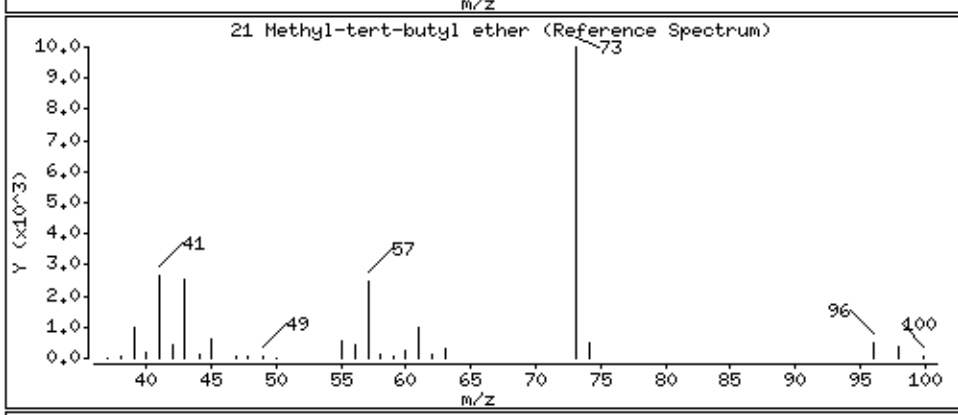
Concentration: 48.7 ppb

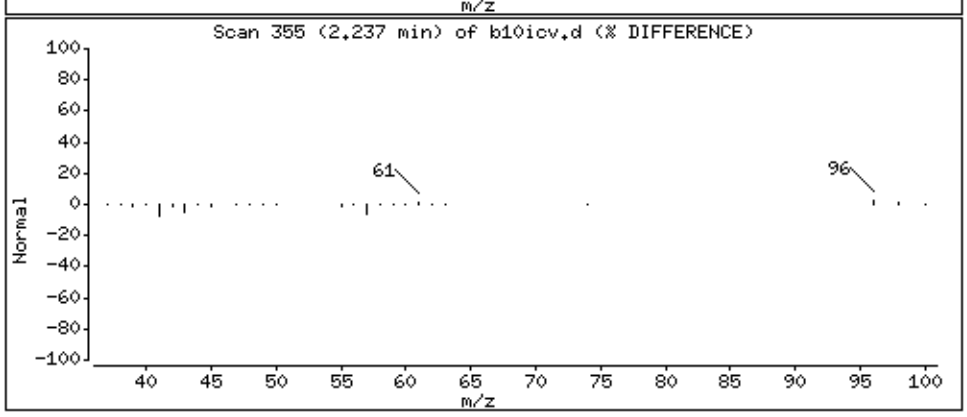












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

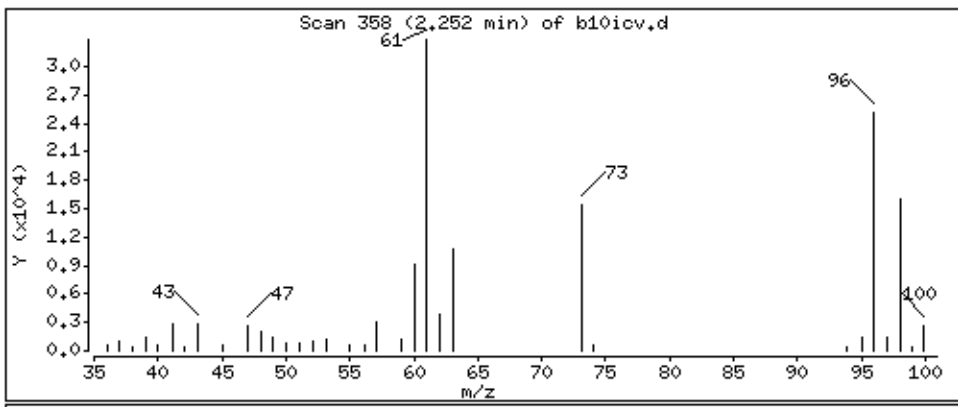
Operator: TMW

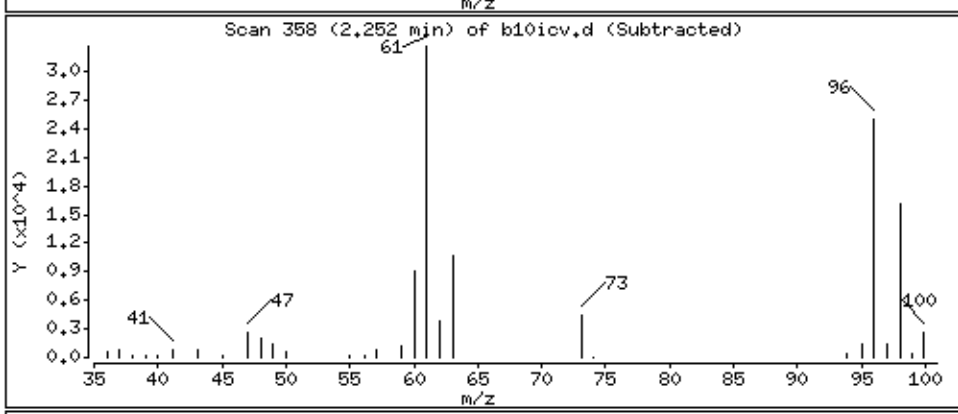
Column phase: DB-624

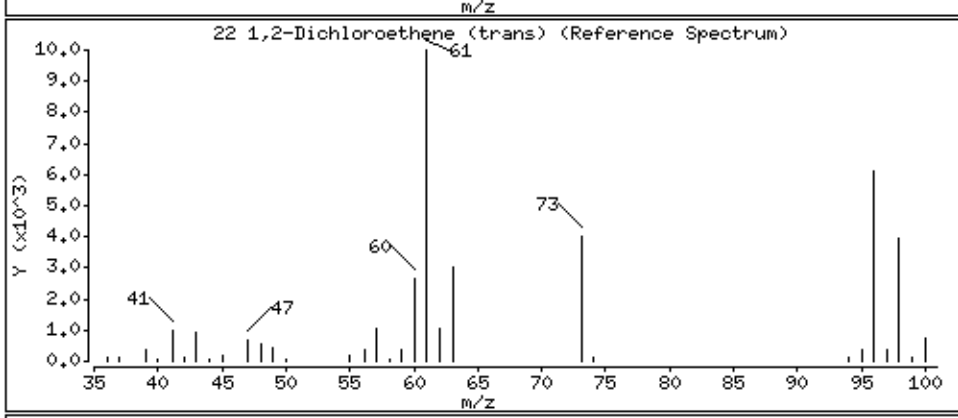
Column diameter: 0.18

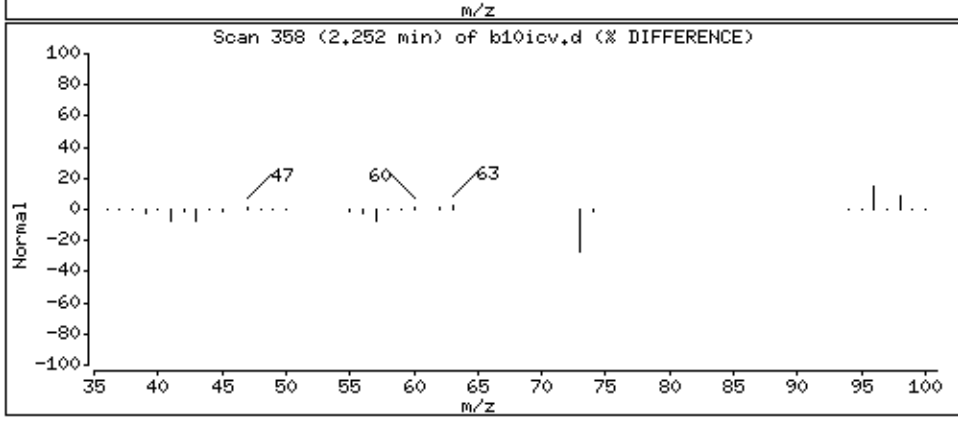
22 1,2-Dichloroethene (trans)

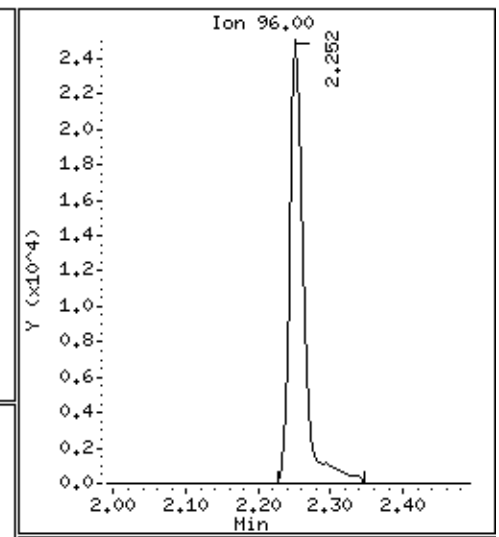
Concentration: 49.9 ppb

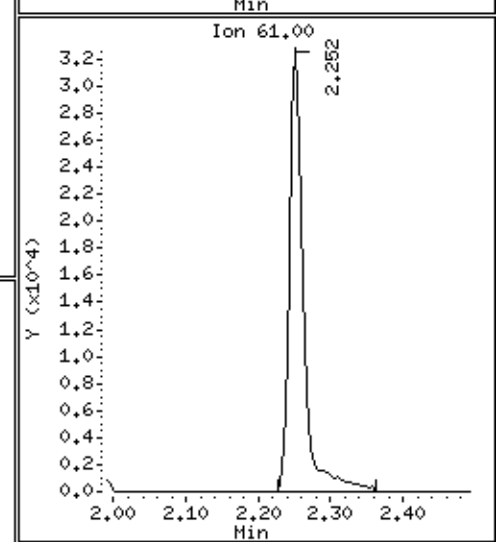


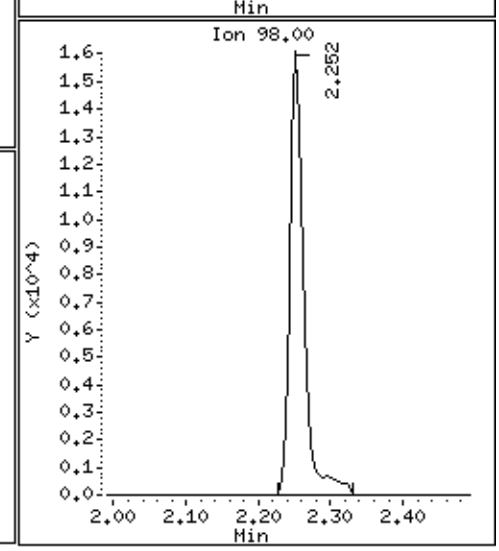












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

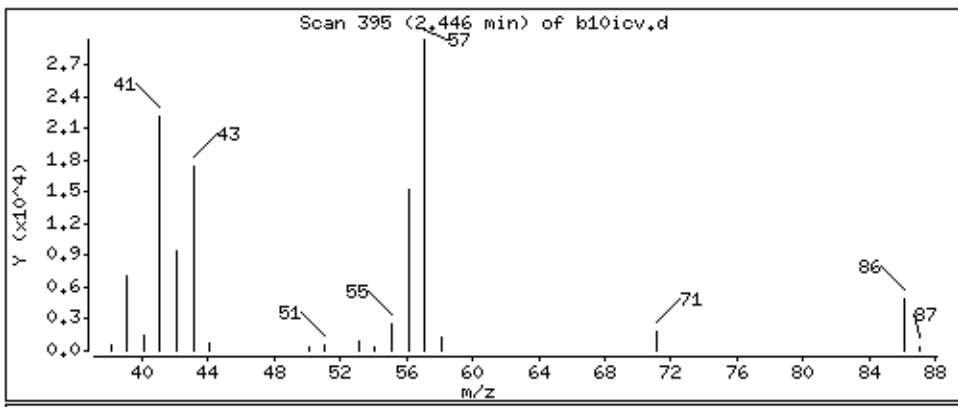
Operator: TMW

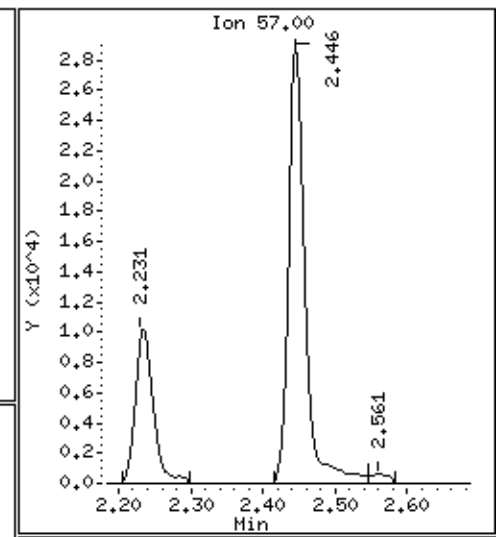
Column phase: DB-624

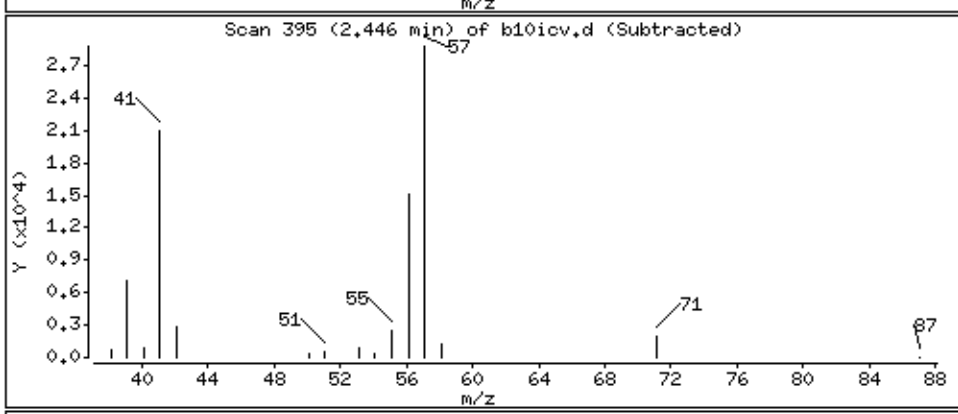
Column diameter: 0.18

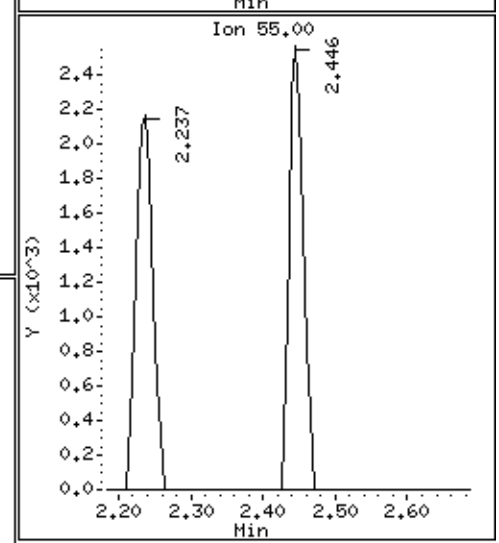
23 n-Hexane

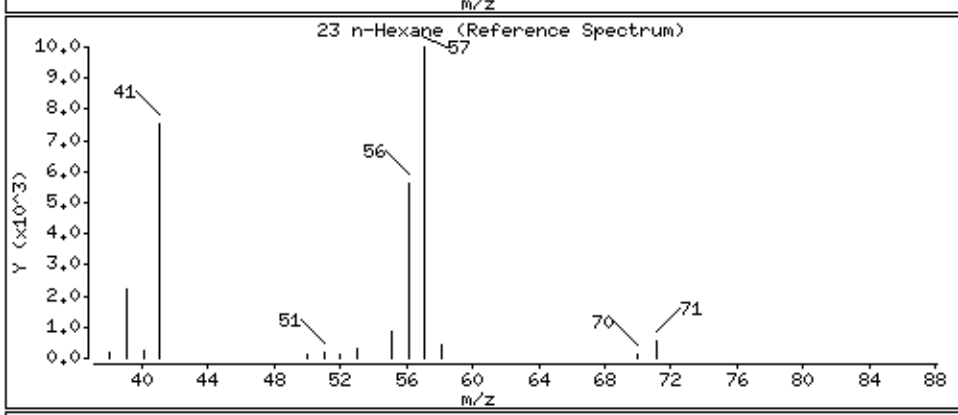
Concentration: 50.2 ppb

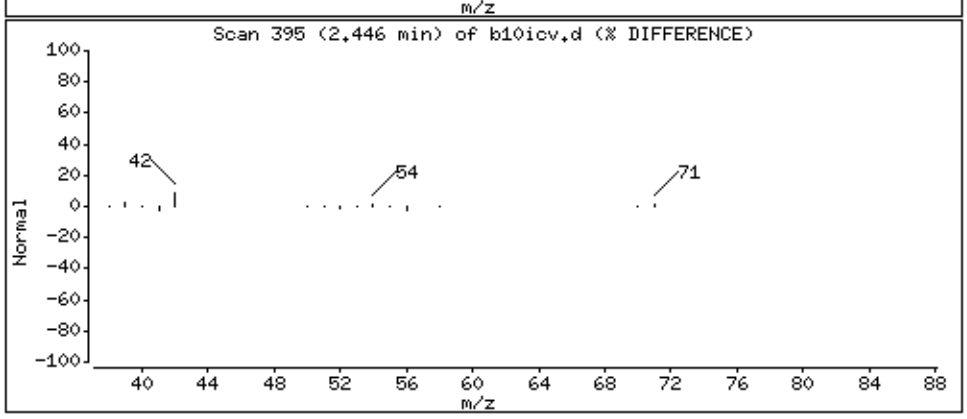












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

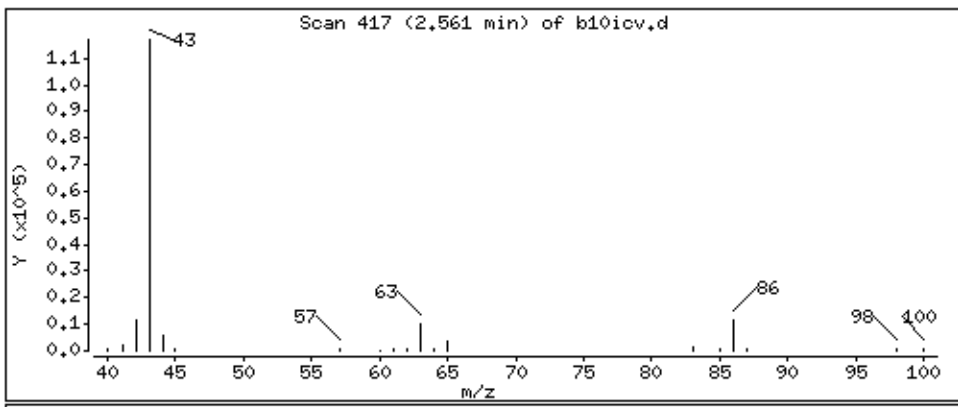
Operator: TMW

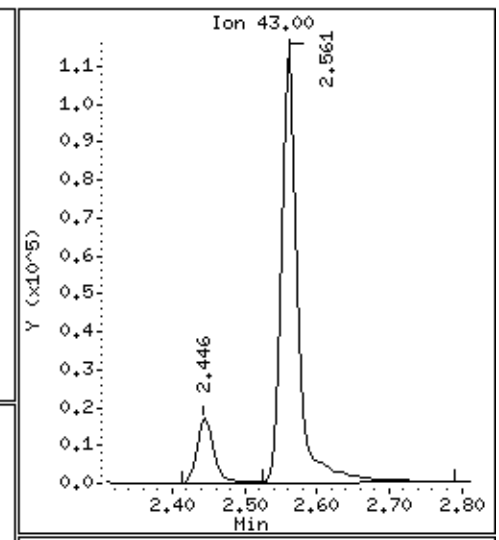
Column phase: DB-624

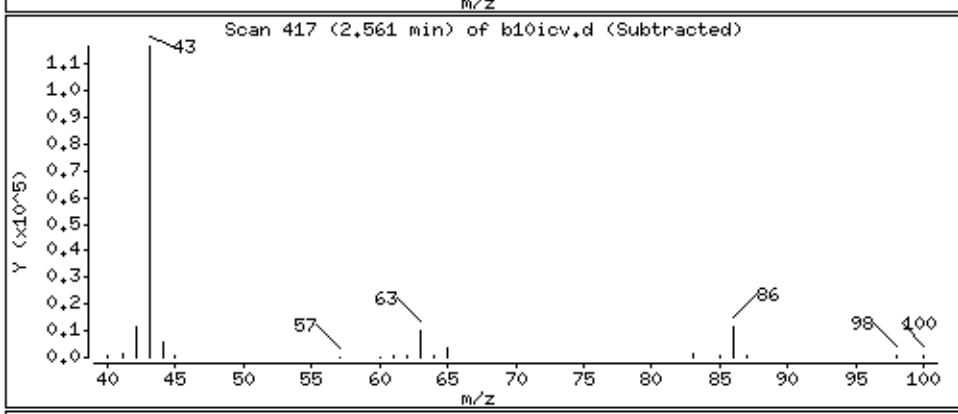
Column diameter: 0.18

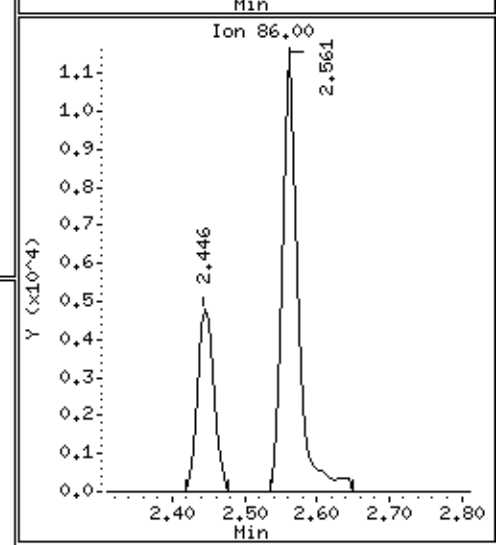
24 Vinyl Acetate

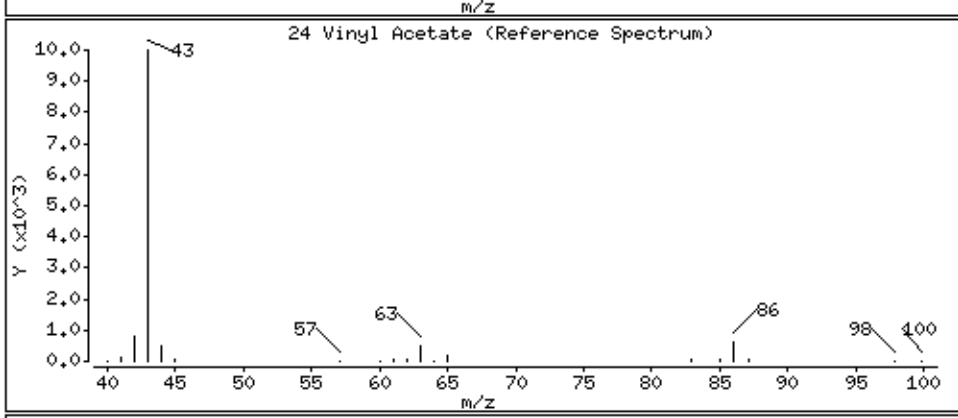
Concentration: 194 ppb

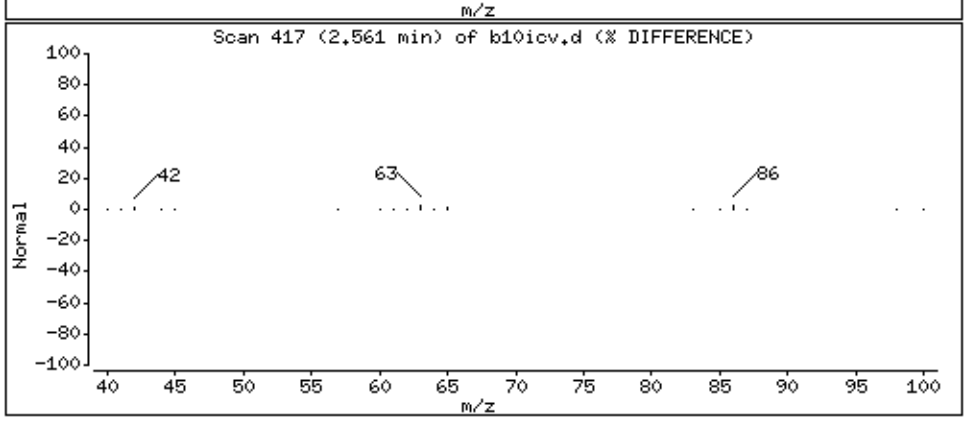












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

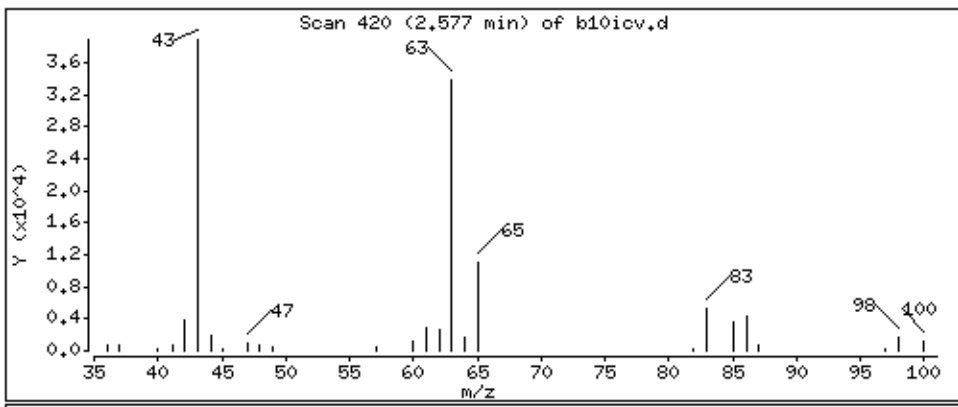
Operator: TMW

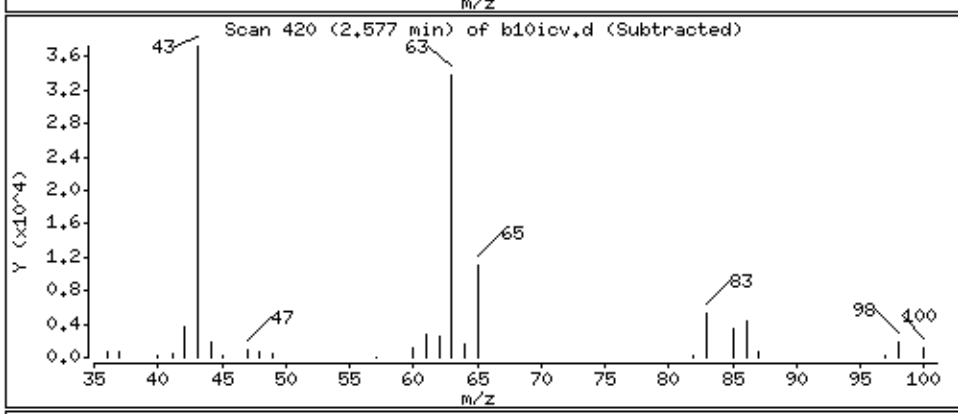
Column phase: DB-624

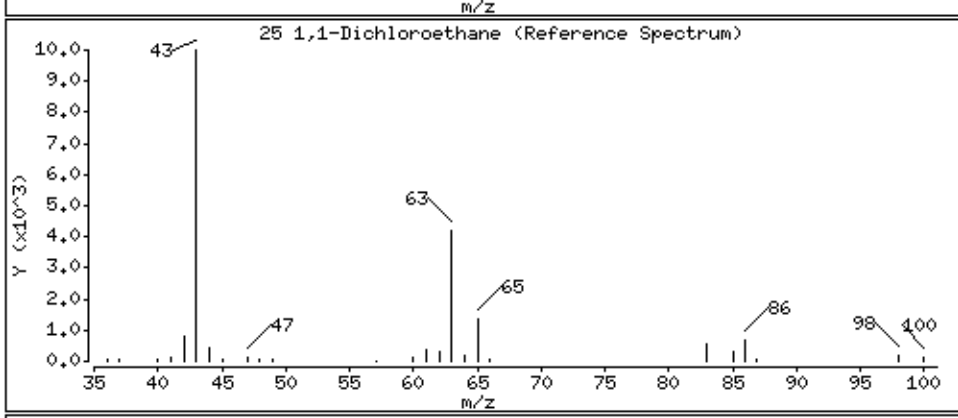
Column diameter: 0.18

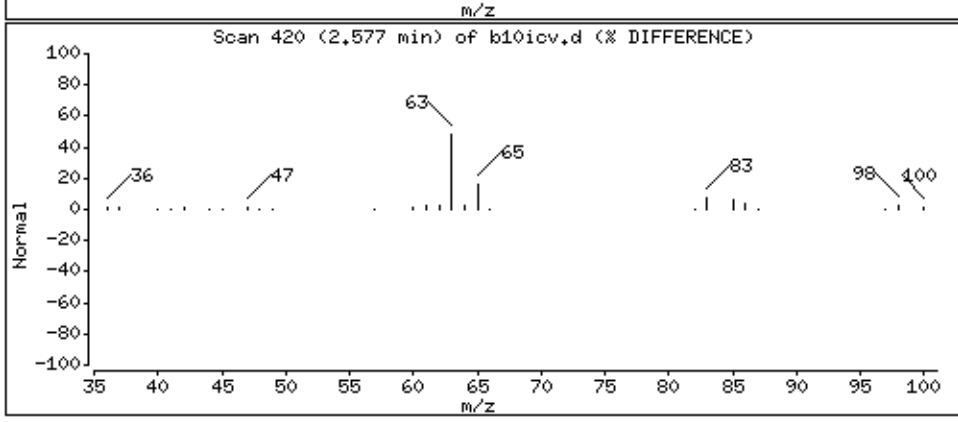
25 1,1-Dichloroethane

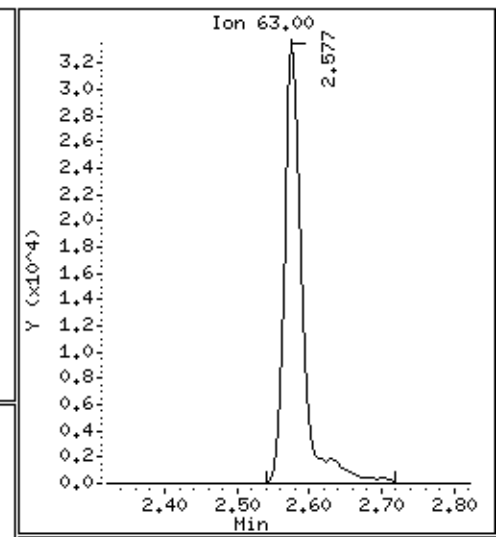
Concentration: 49.4 ppb

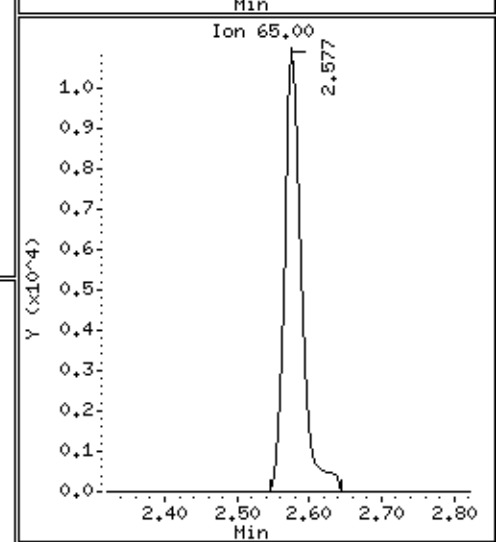


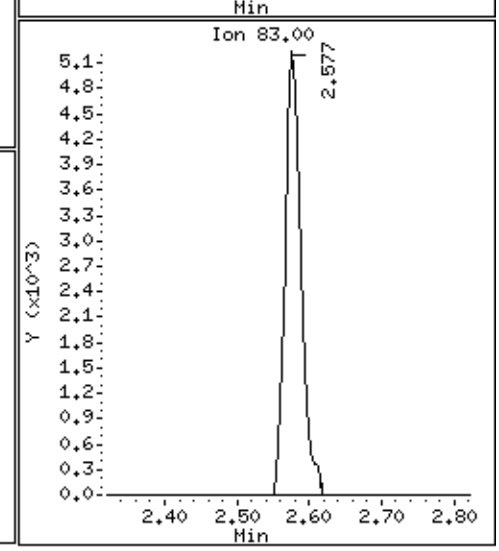












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

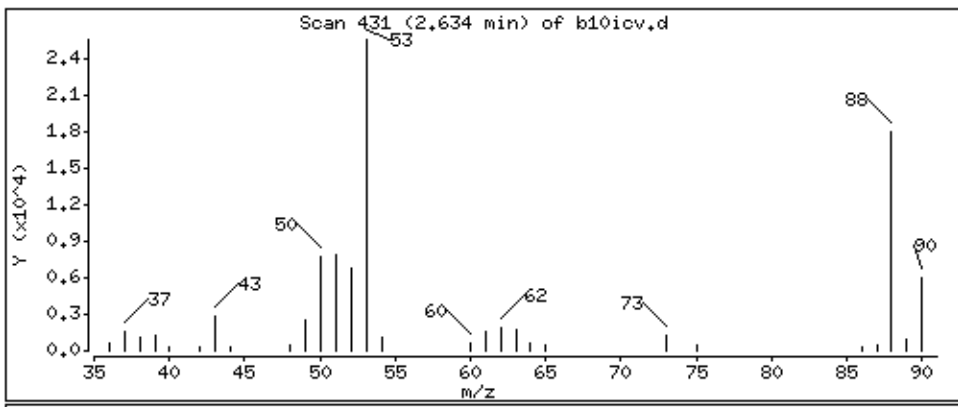
Operator: TMW

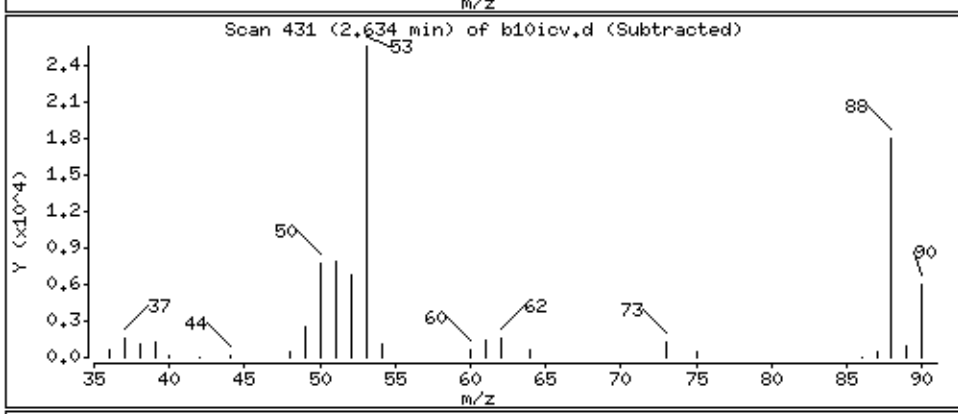
Column phase: DB-624

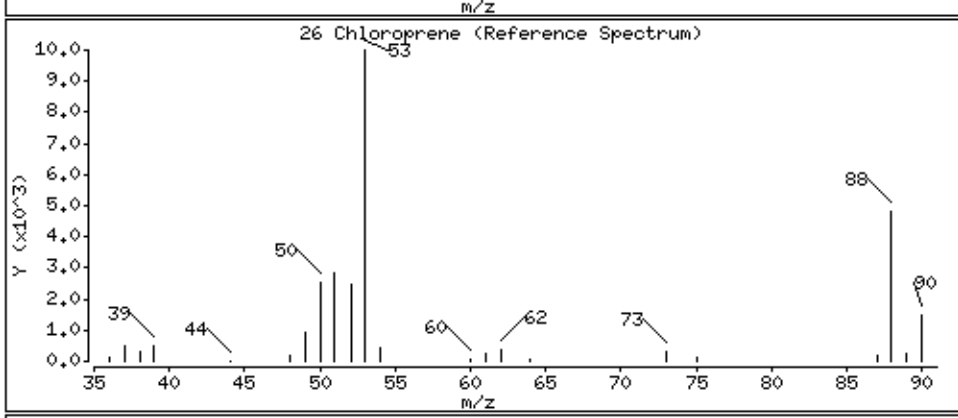
Column diameter: 0.18

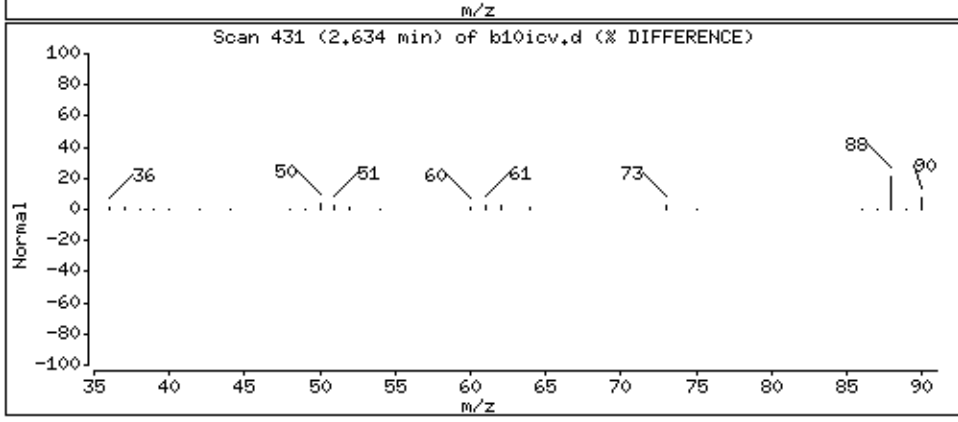
26 Chloroprene

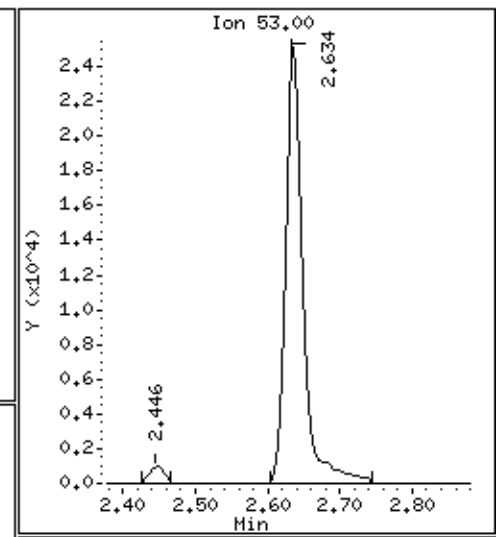
Concentration: 54.7 ppb

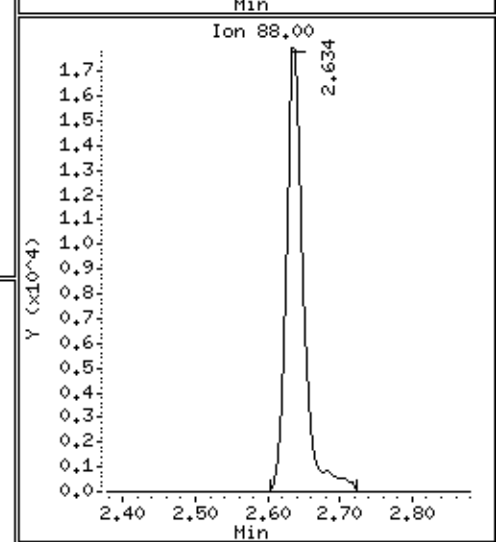


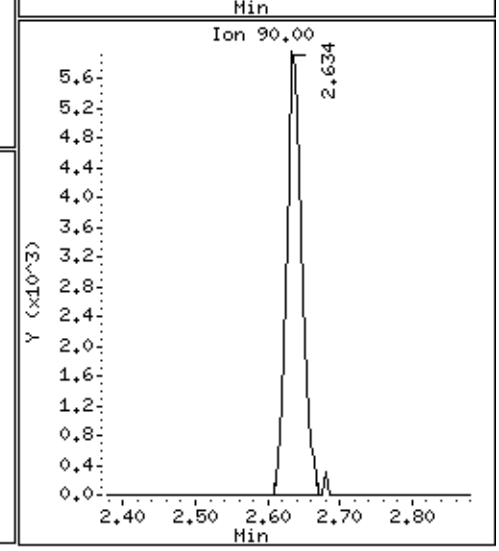












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

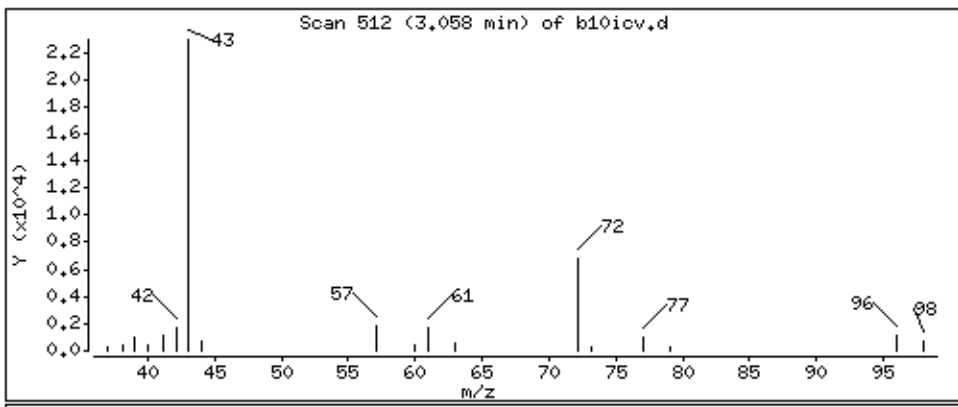
Operator: TMW

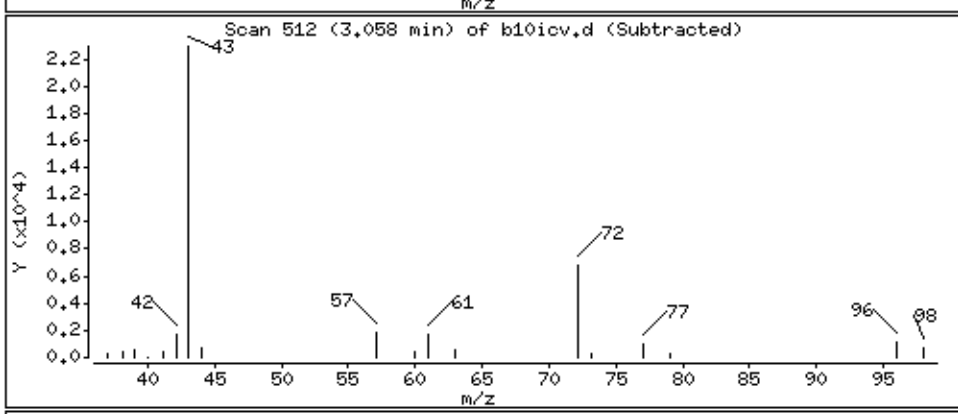
Column phase: DB-624

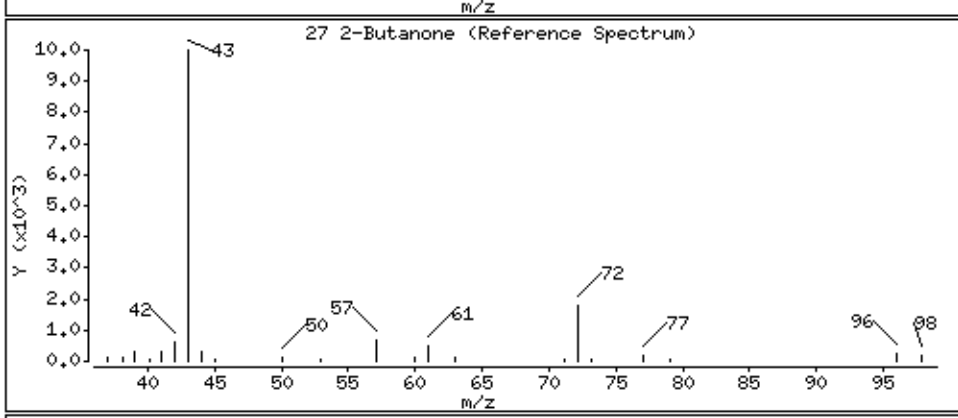
Column diameter: 0.18

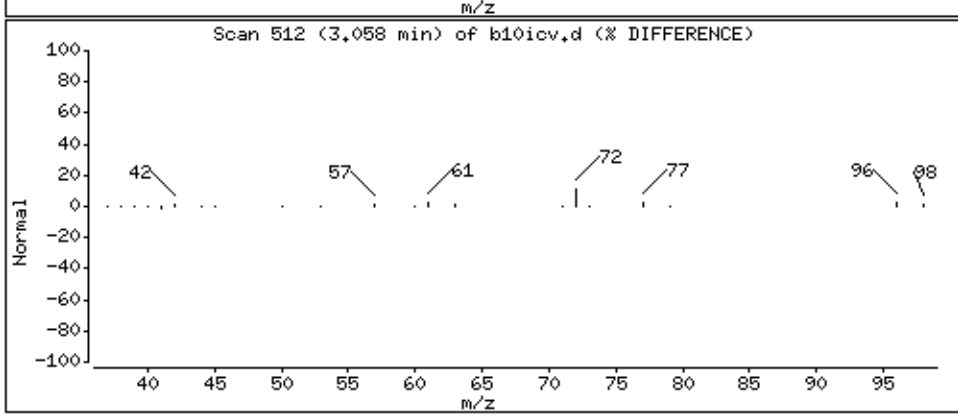
27 2-Butanone

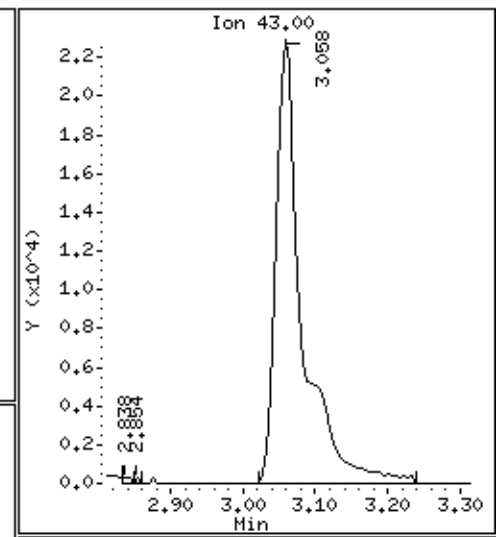
Concentration: 324 ppb

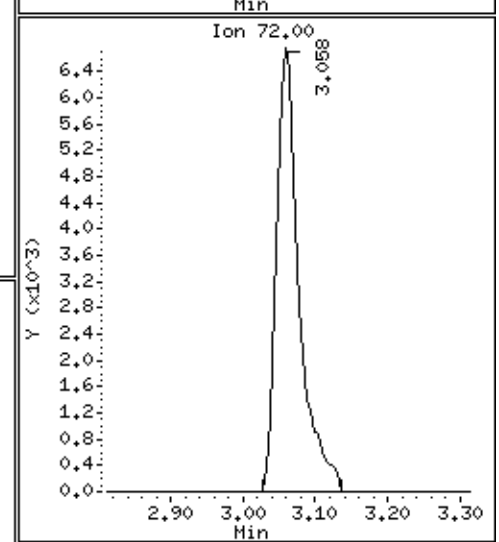


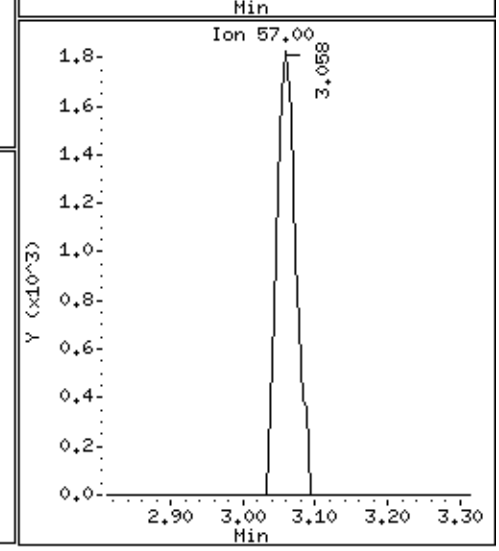












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

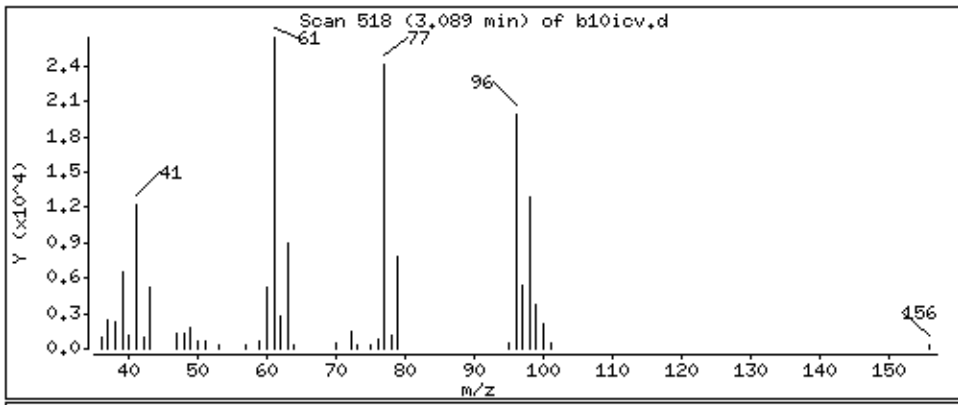
Operator: TMW

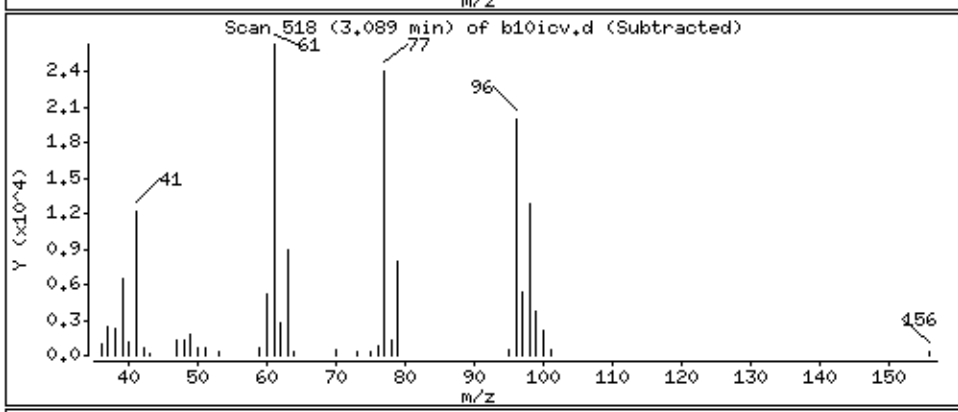
Column phase: DB-624

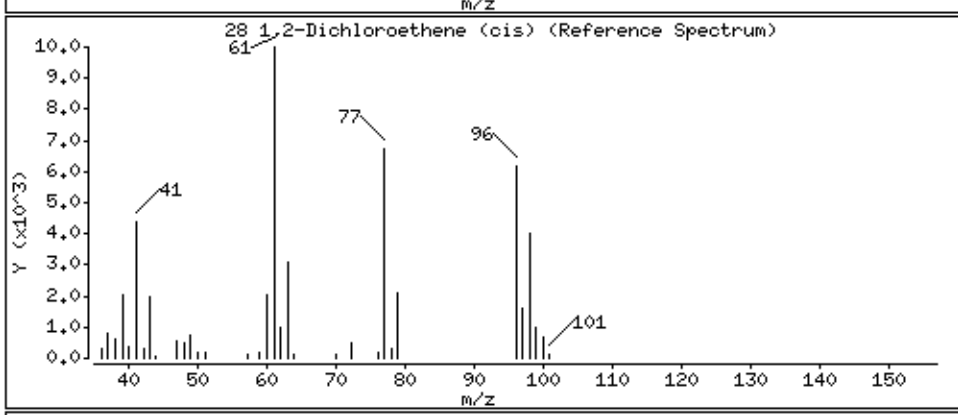
Column diameter: 0.18

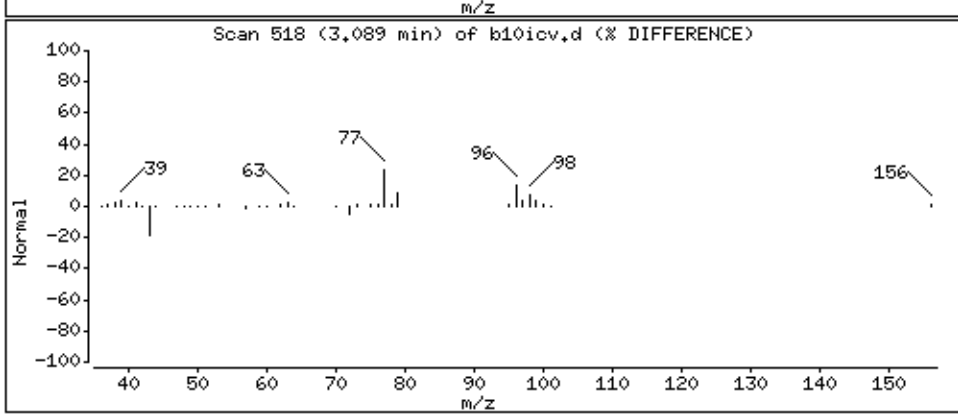
28 1,2-Dichloroethene (cis)

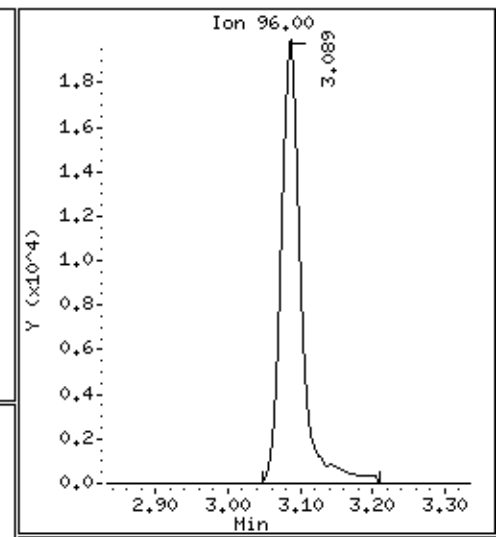
Concentration: 51.5 ppb

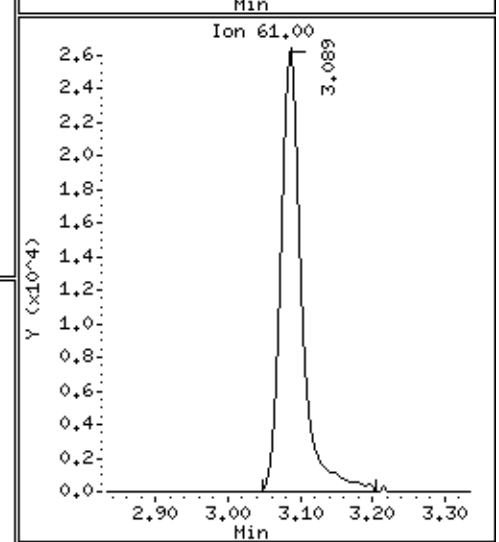


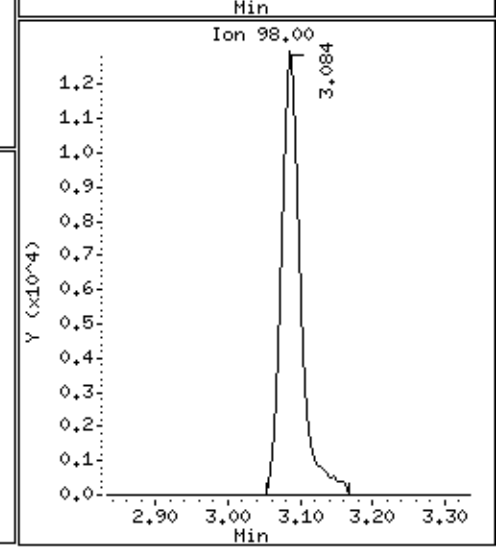












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

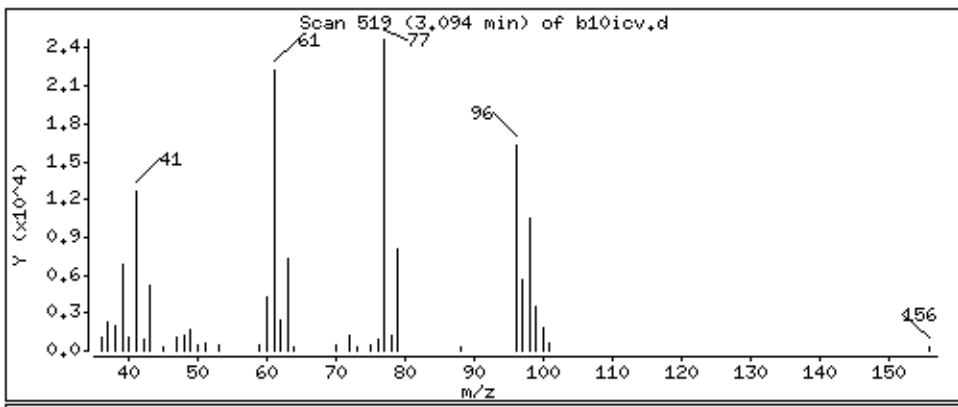
Operator: TMW

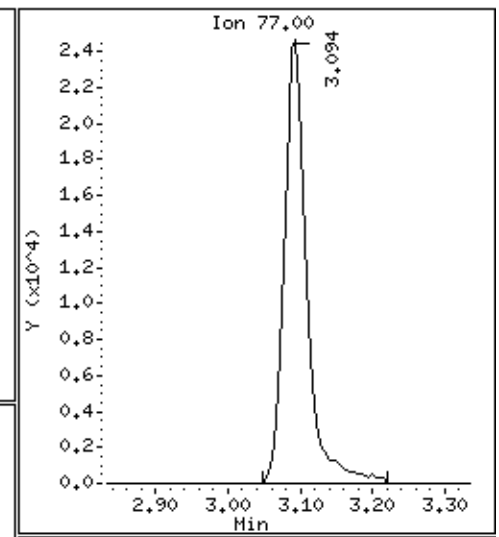
Column phase: DB-624

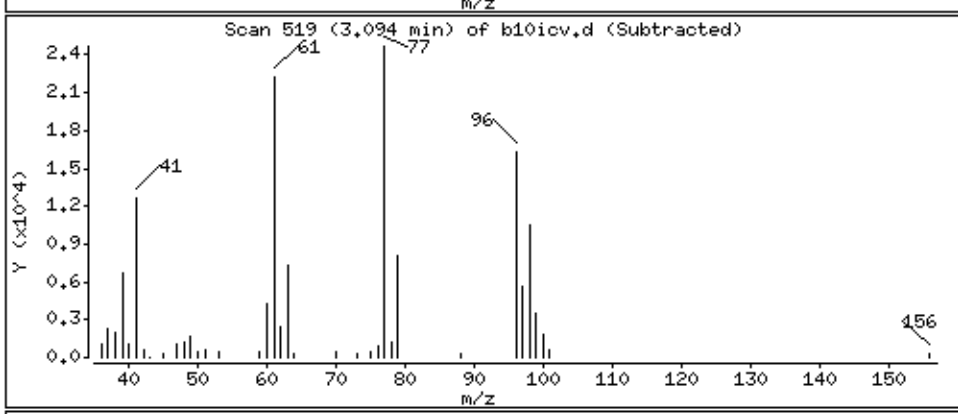
Column diameter: 0.18

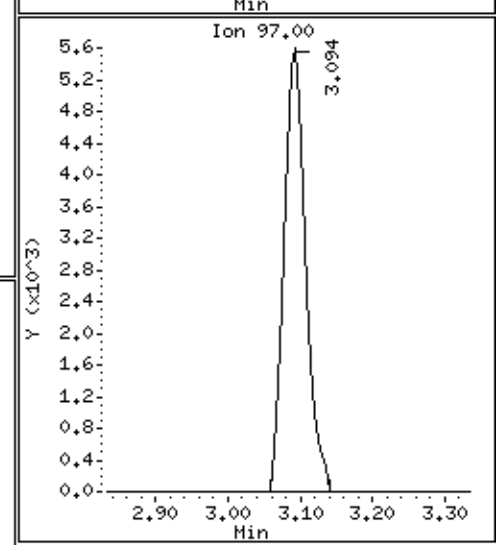
29 2,2-Dichloropropane

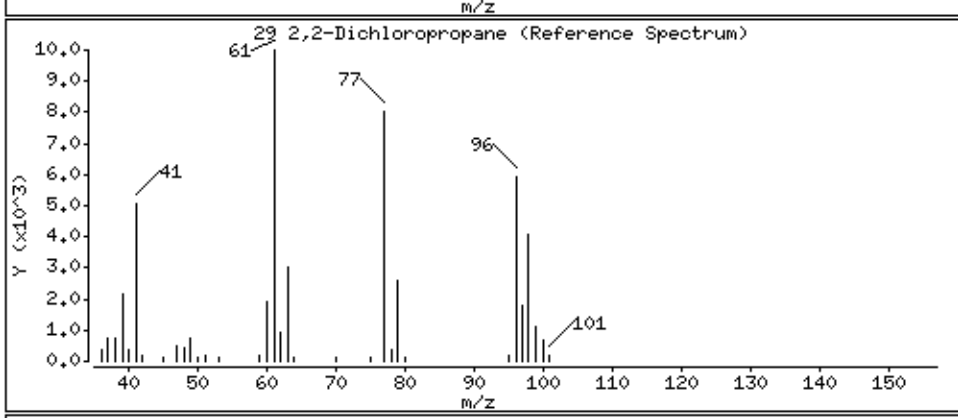
Concentration: 51.6 ppb

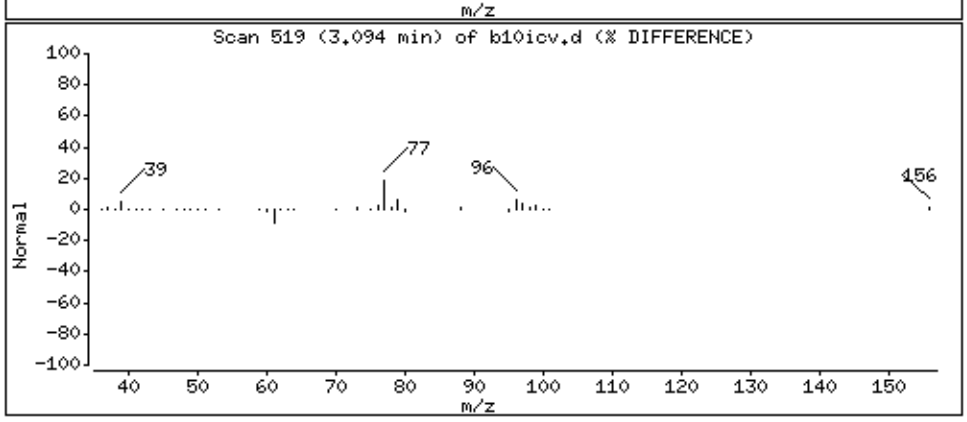












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Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

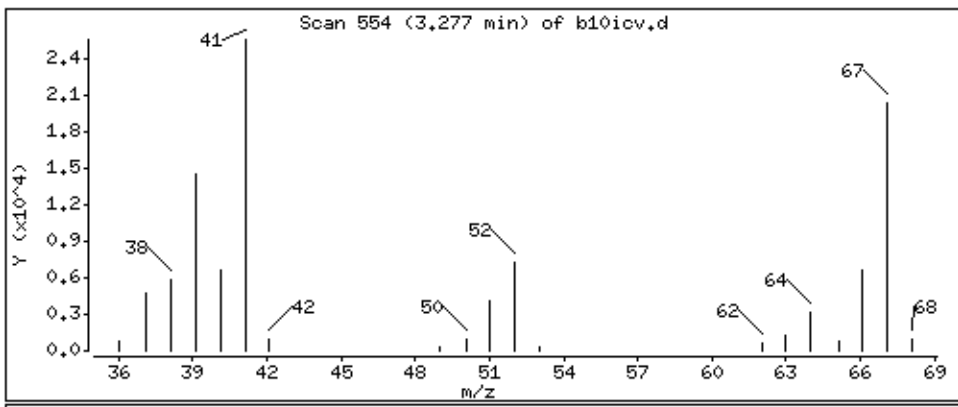
Operator: TMW

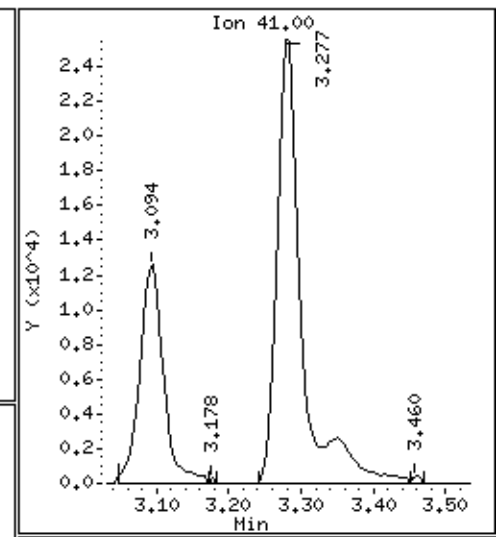
Column phase: DB-624

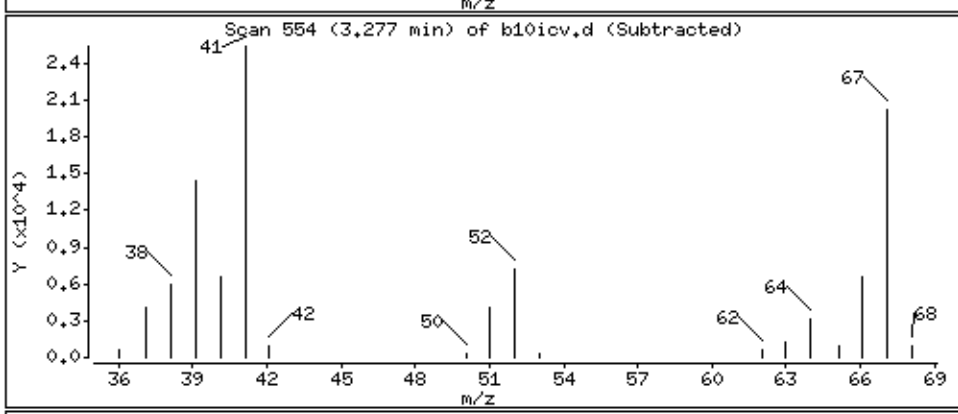
Column diameter: 0.18

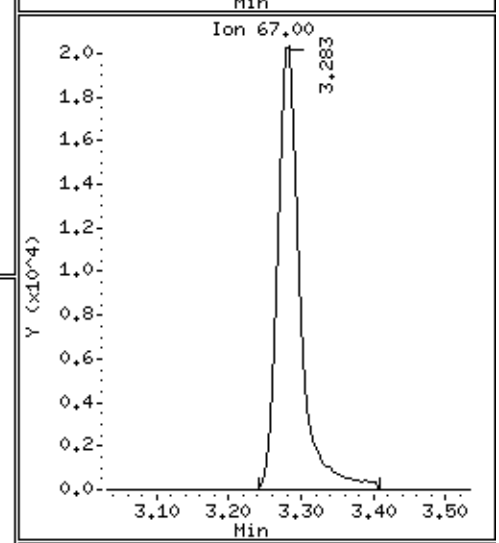
31 Methacrylonitrile

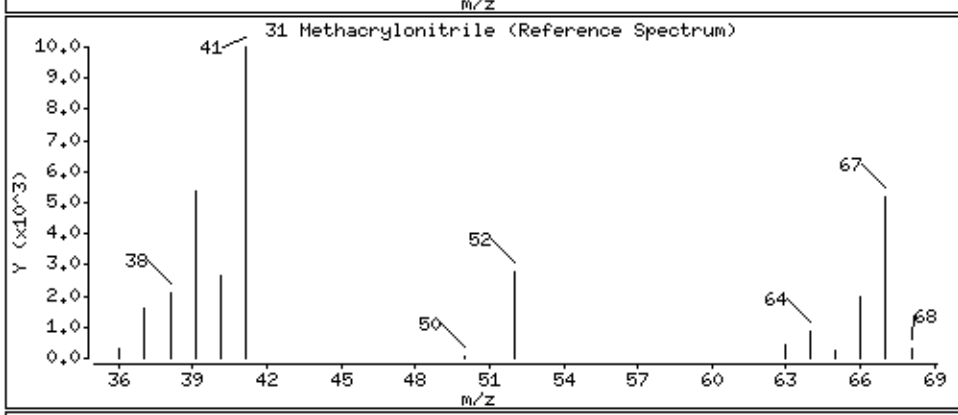
Concentration: 226 ppb

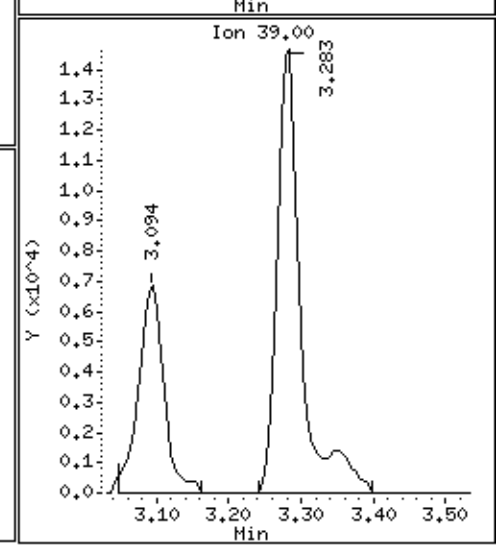


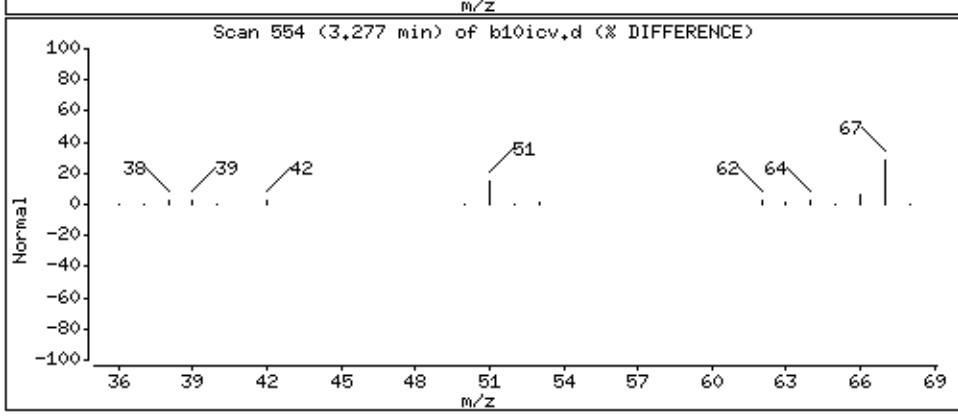












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

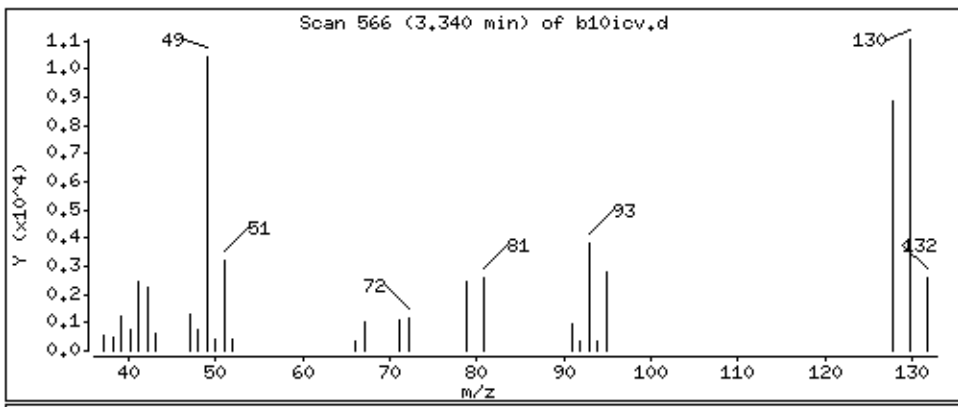
Operator: TMW

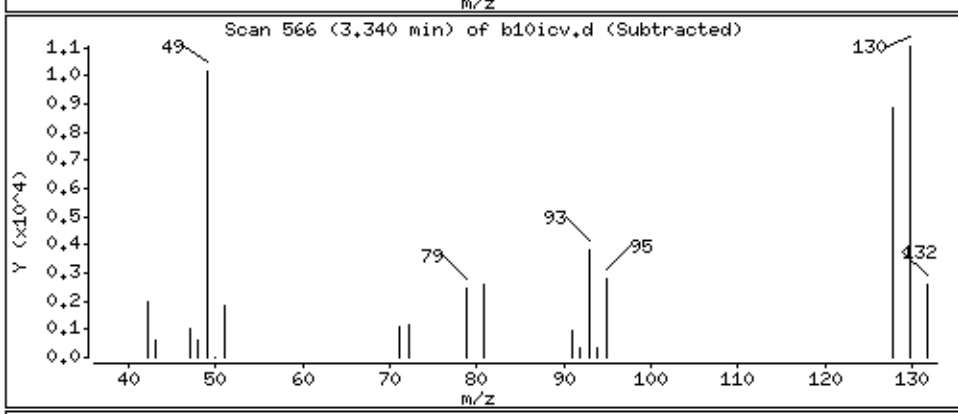
Column phase: DB-624

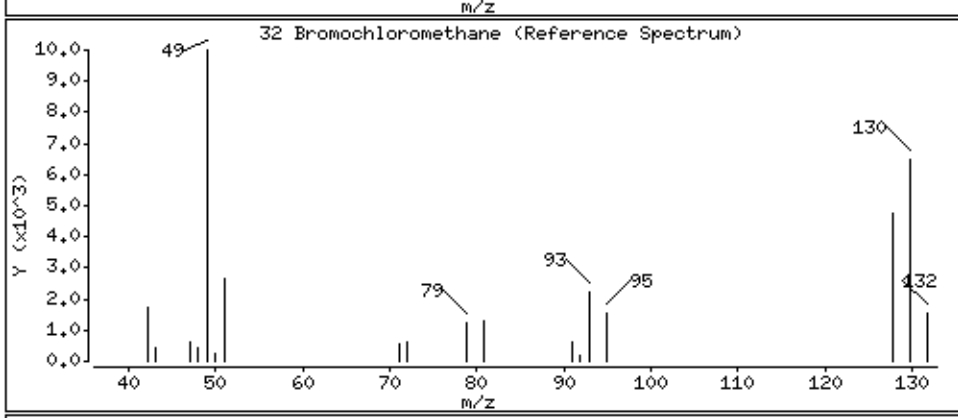
Column diameter: 0.18

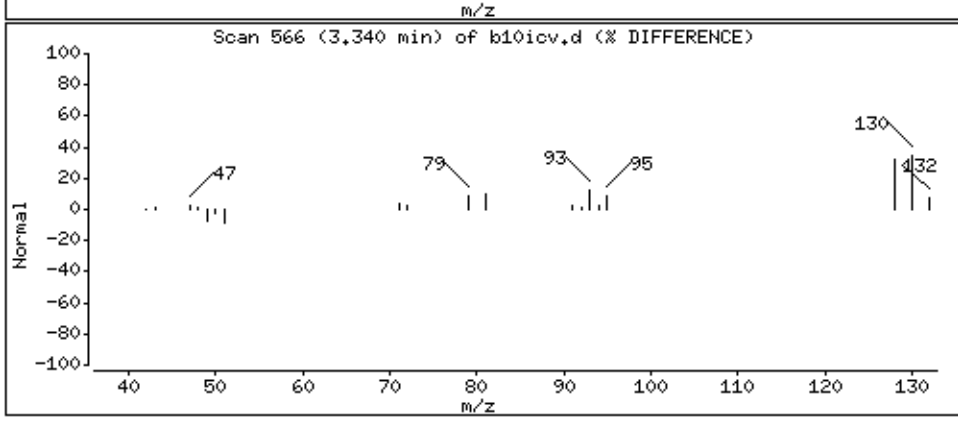
32 Bromochloromethane

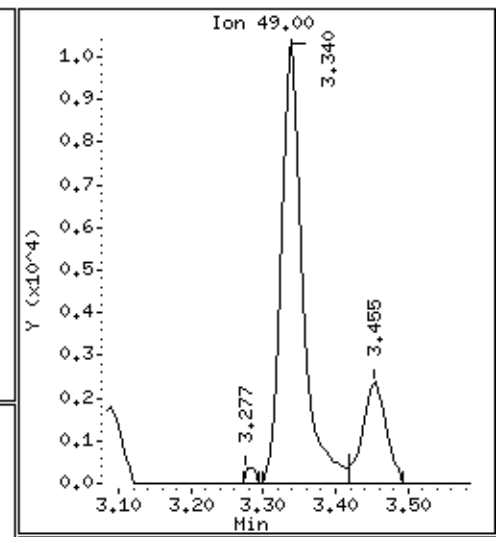
Concentration: 48.7 ppb

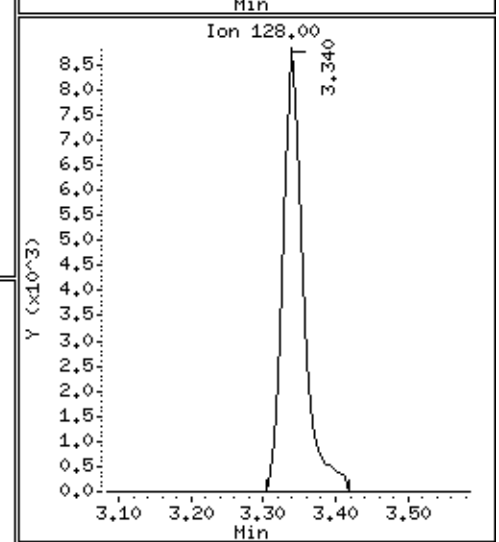


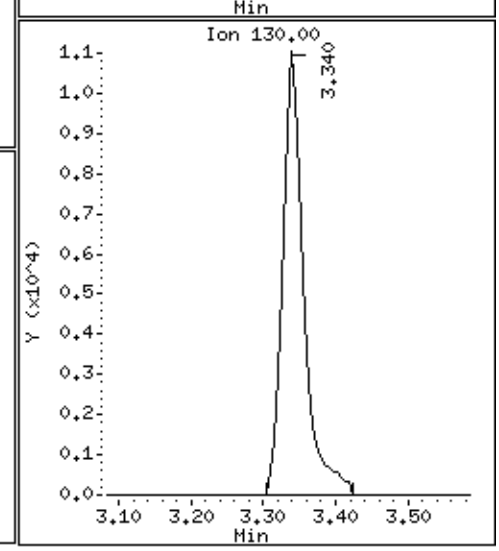












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

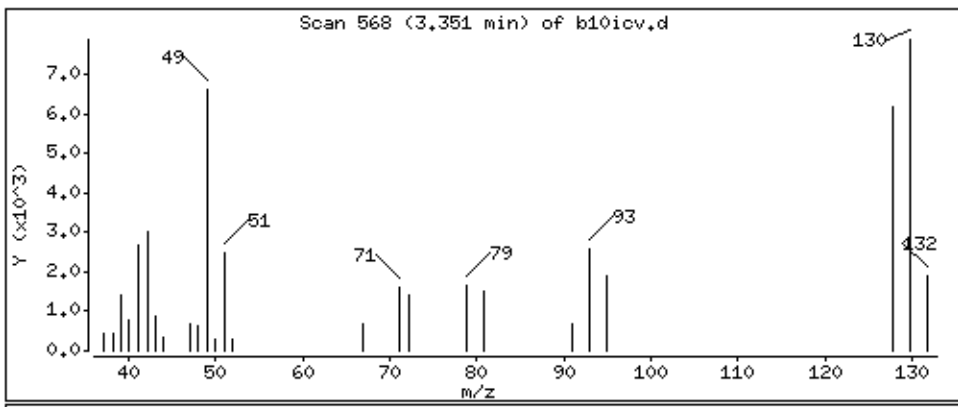
Operator: TMW

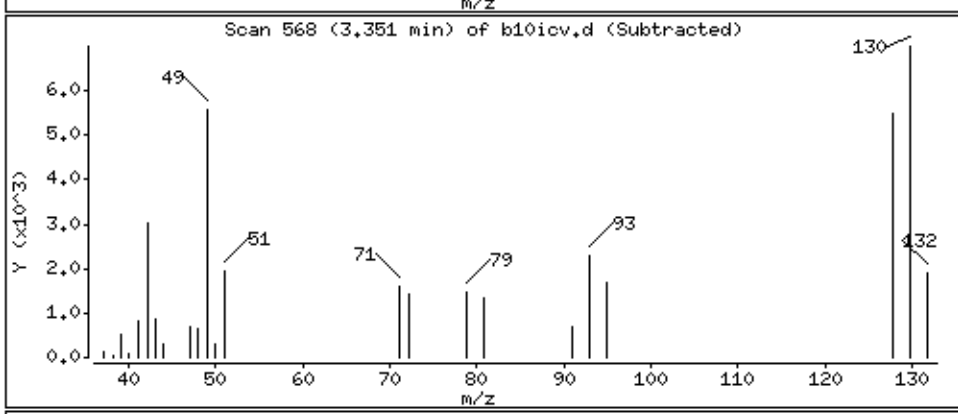
Column phase: DB-624

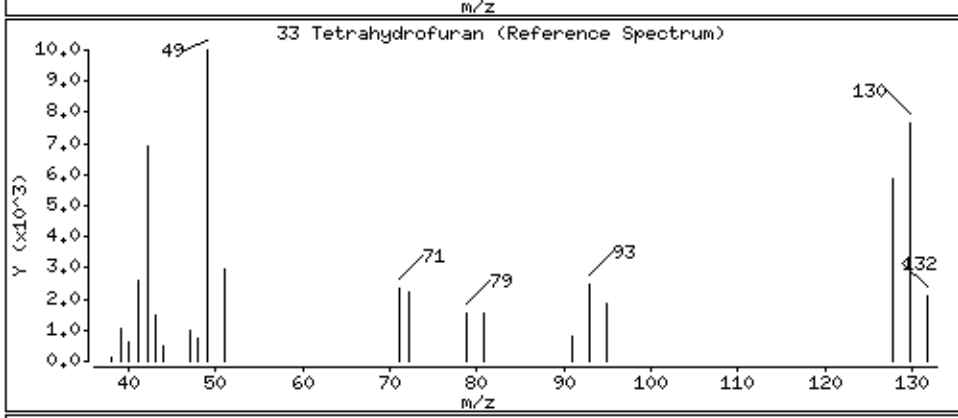
Column diameter: 0.18

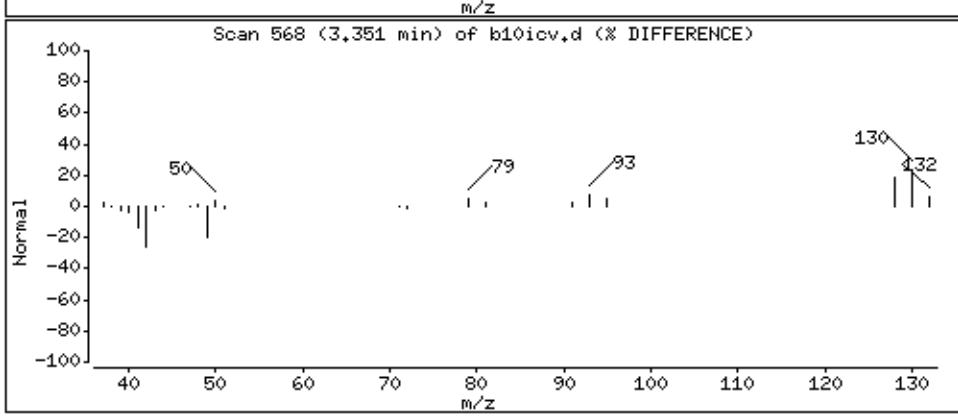
33 Tetrahydrofuran

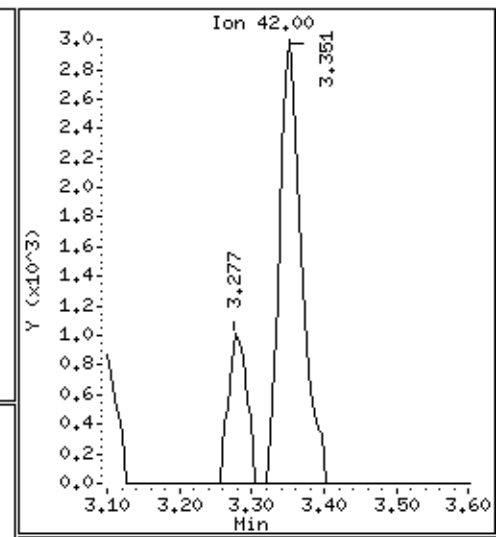
Concentration: 48.5 ppb

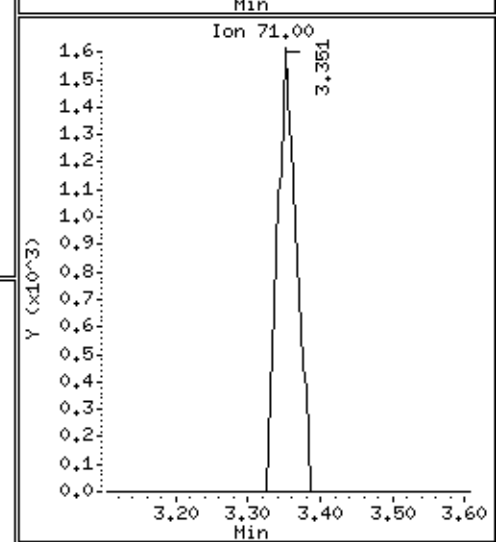


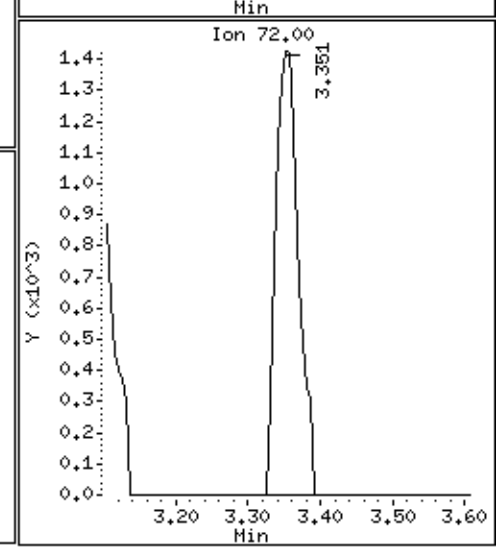












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

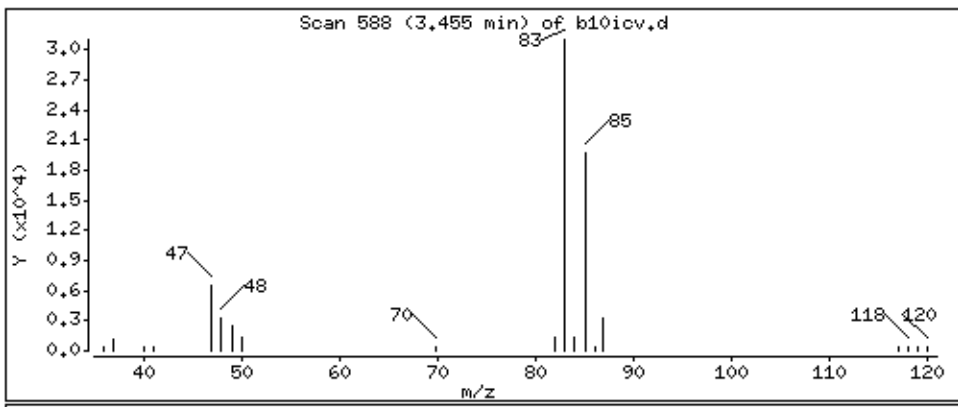
Operator: TMW

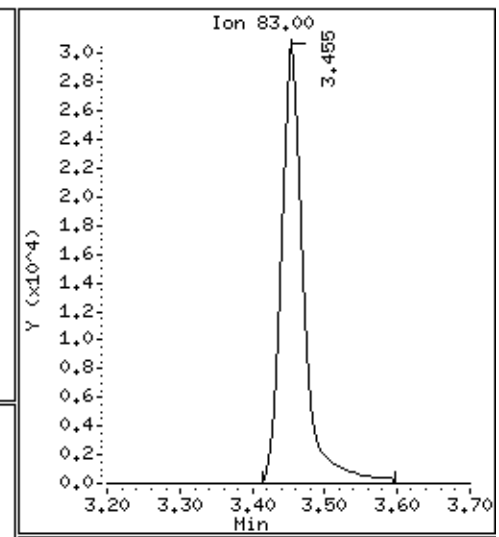
Column phase: DB-624

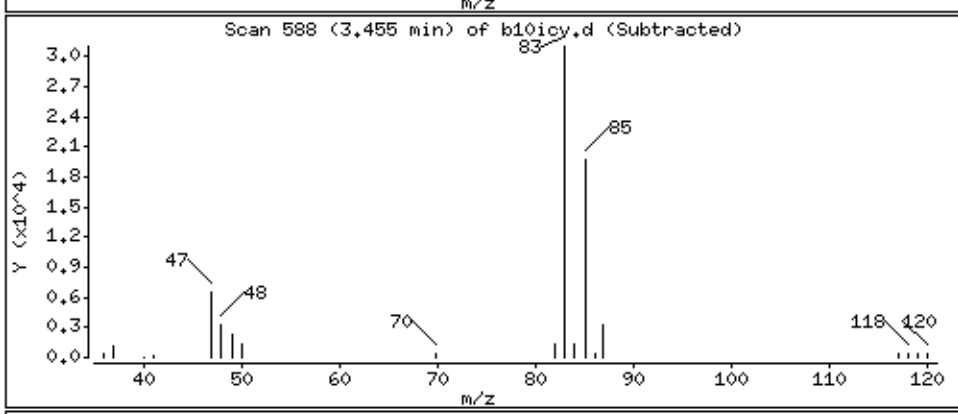
Column diameter: 0.18

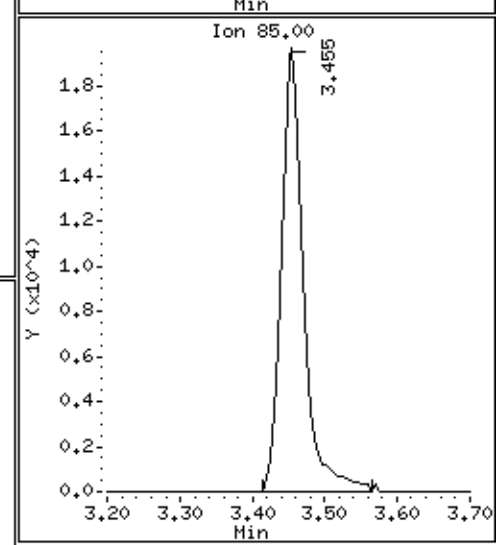
34 Chloroform

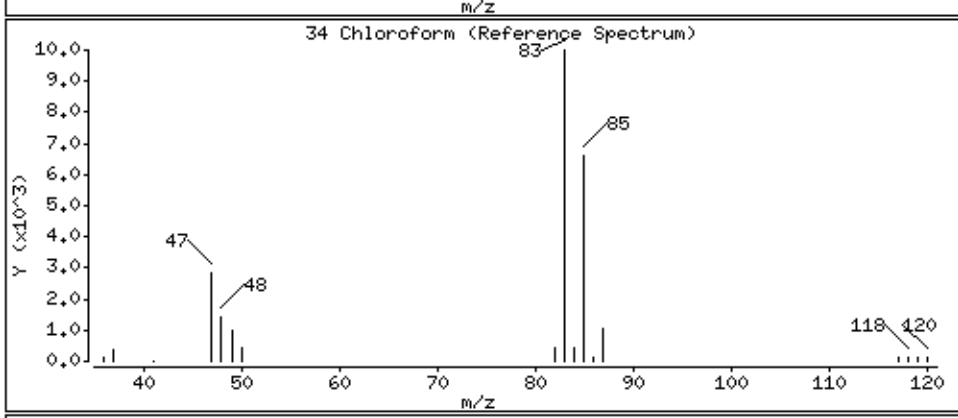
Concentration: 49.6 ppb

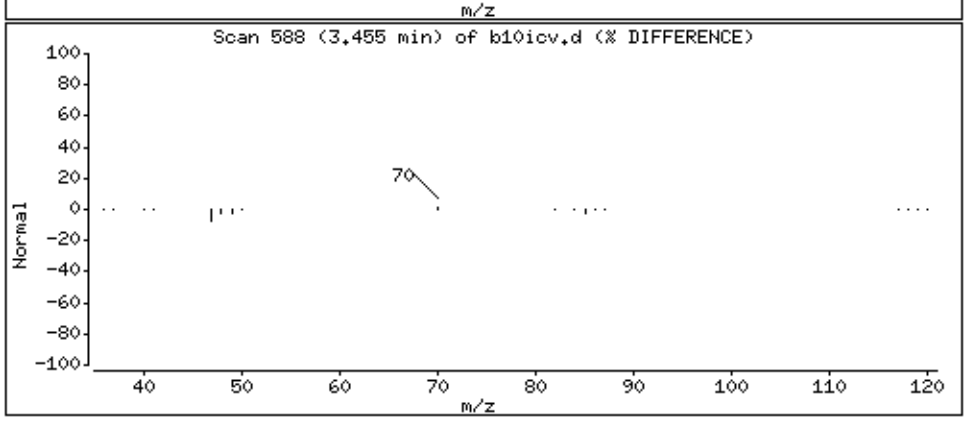












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

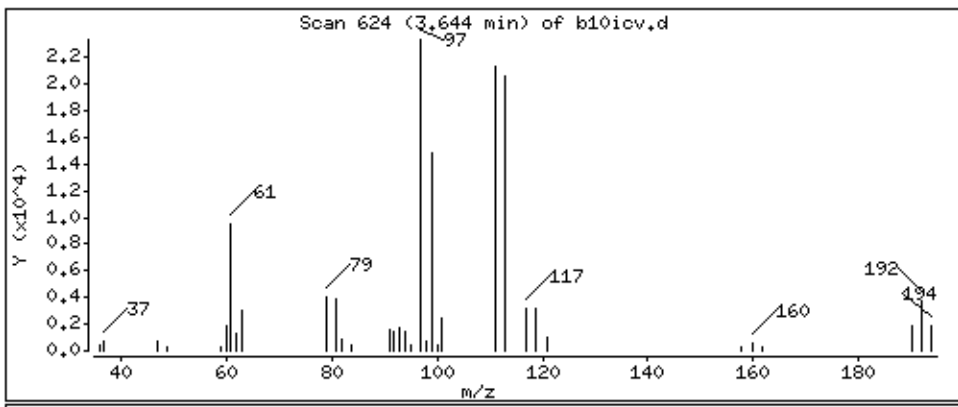
Operator: TMW

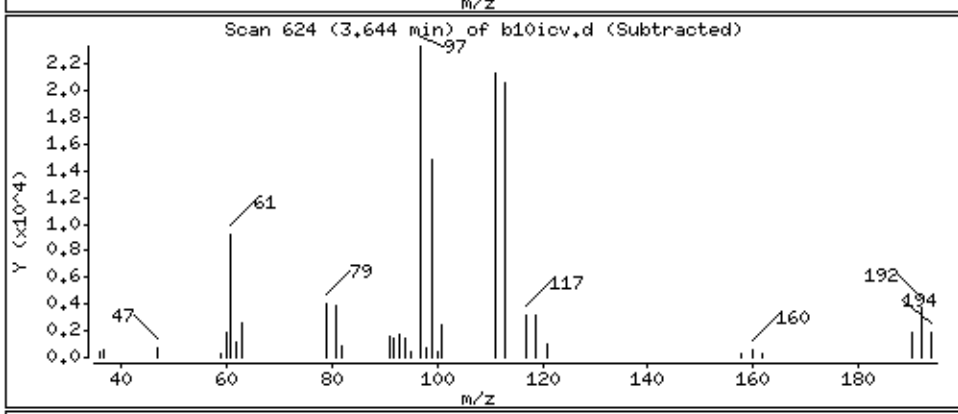
Column phase: DB-624

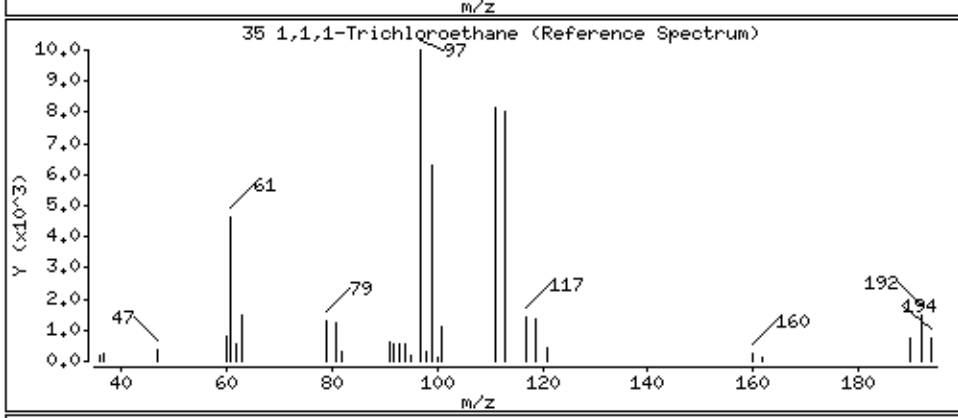
Column diameter: 0.18

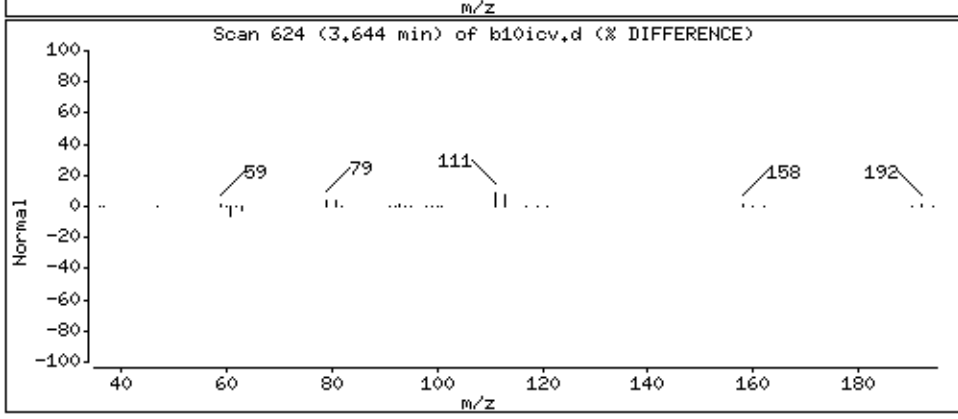
35 1,1,1-Trichloroethane

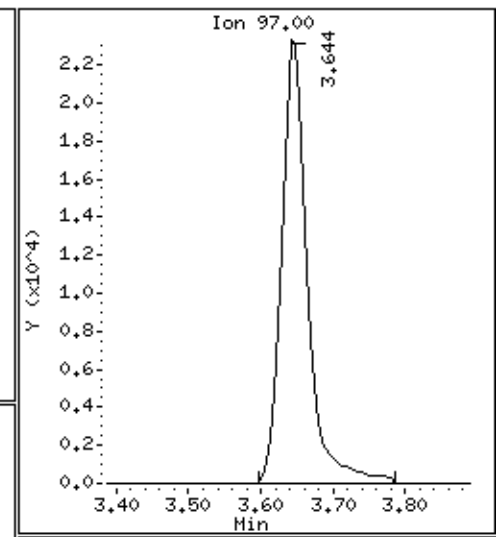
Concentration: 49.0 ppb

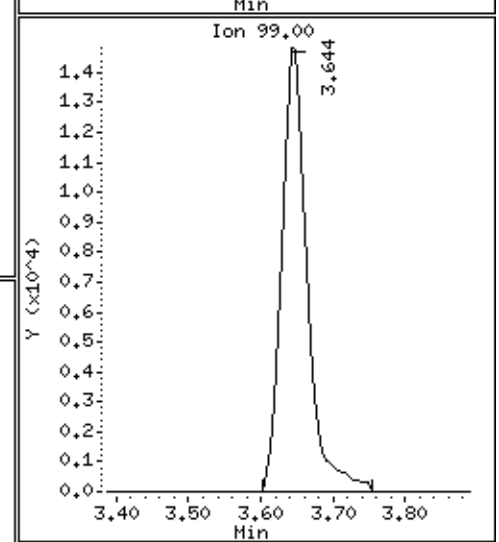


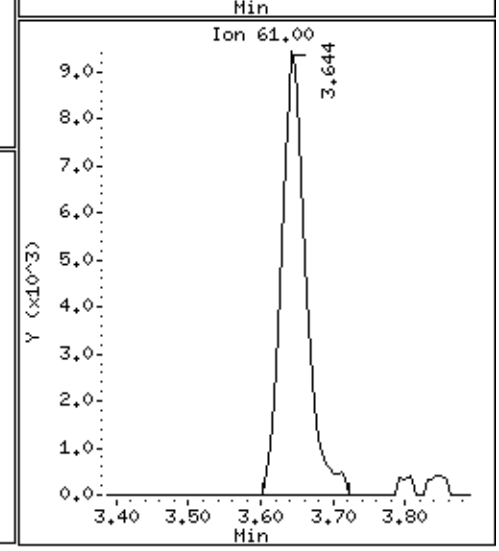












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

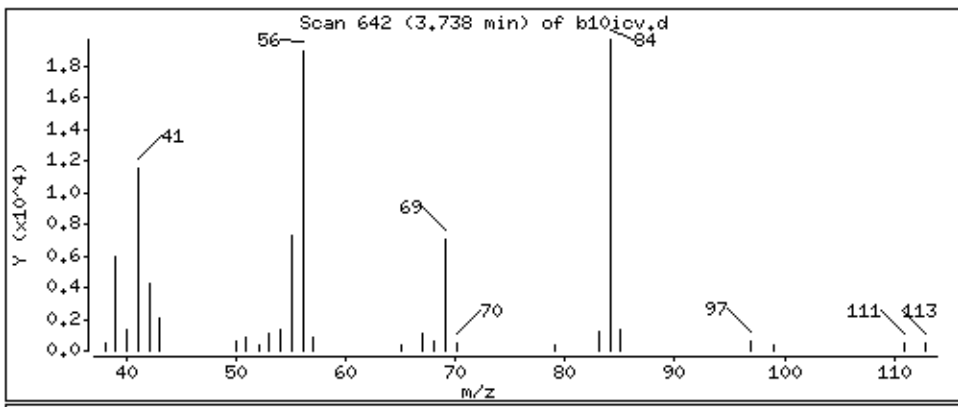
Operator: TMW

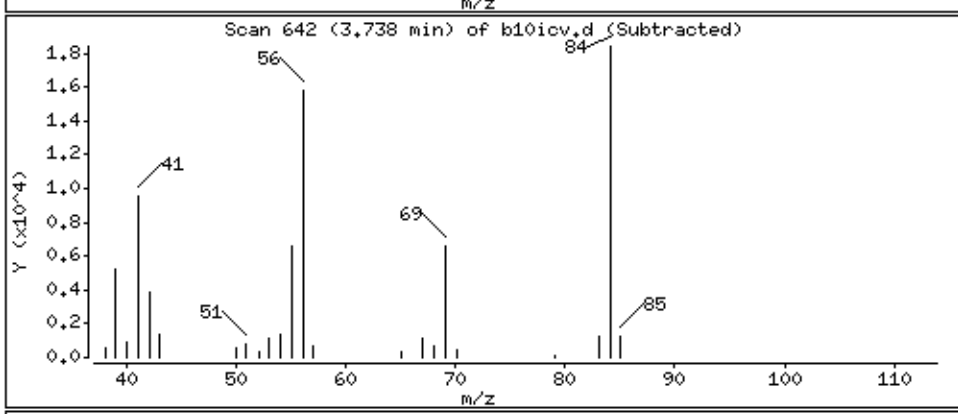
Column phase: DB-624

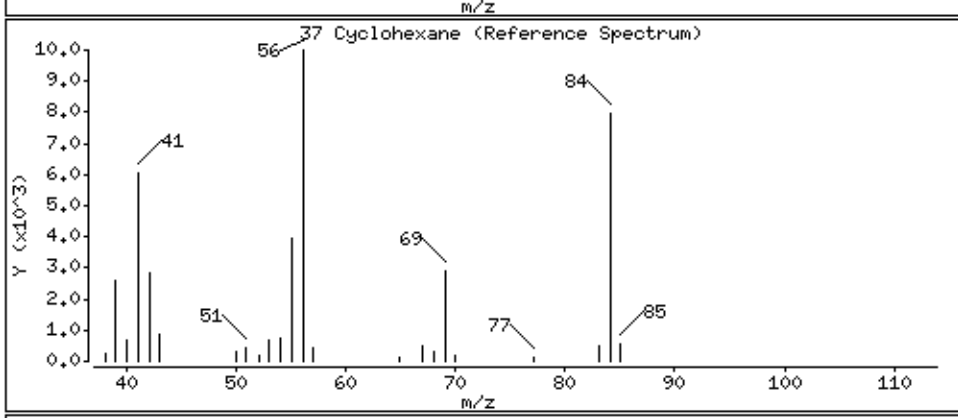
Column diameter: 0.18

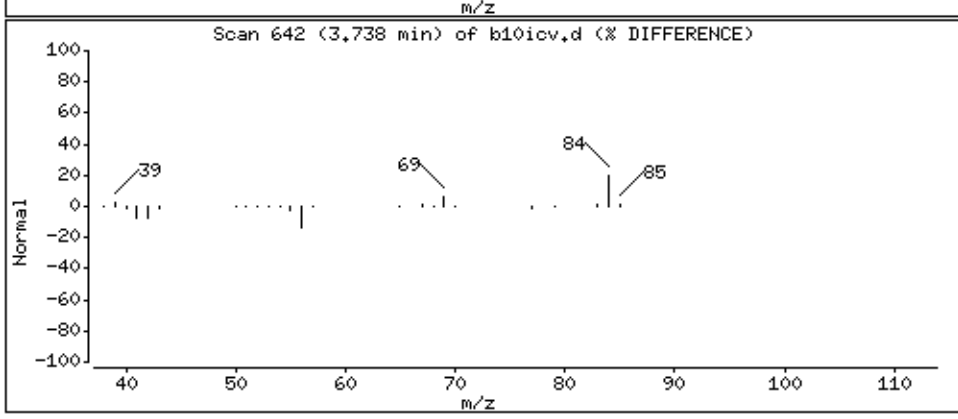
37 Cyclohexane

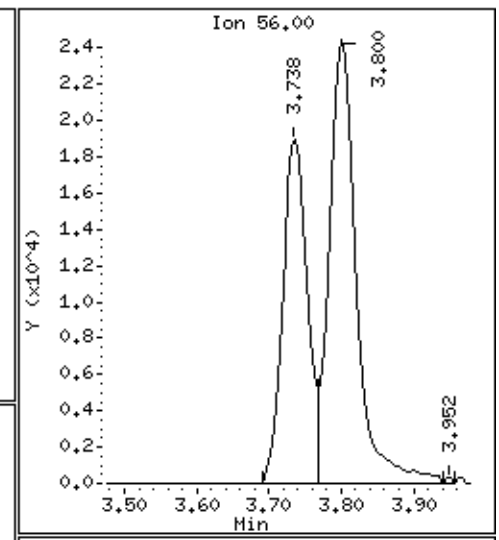
Concentration: 49.4 ppb

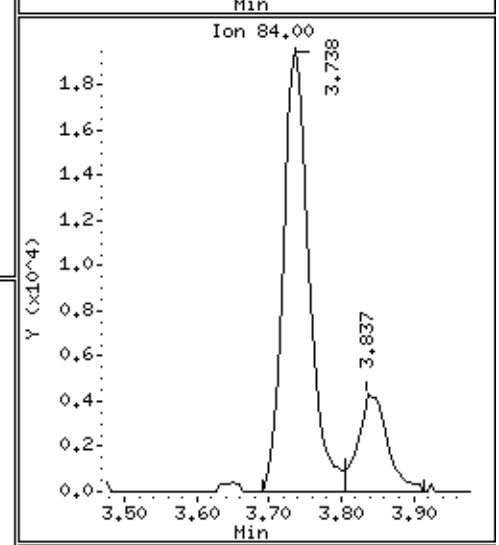


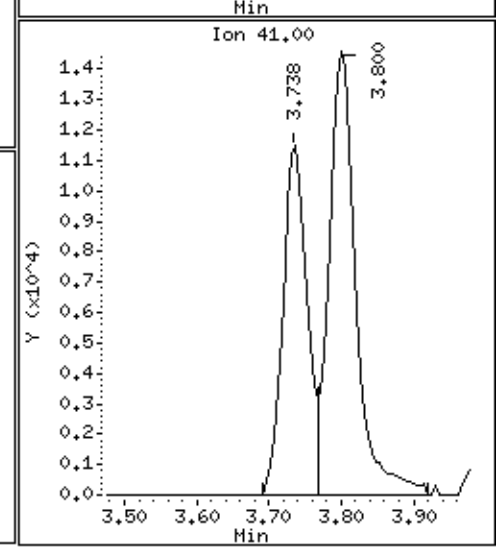












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

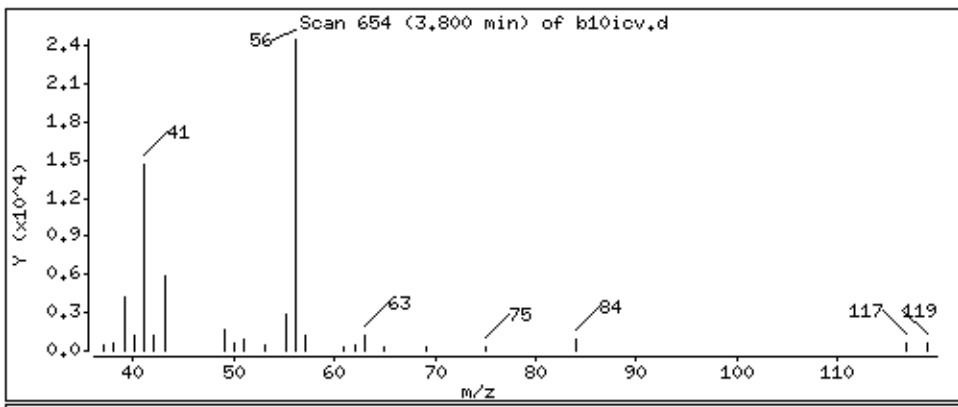
Operator: TMW

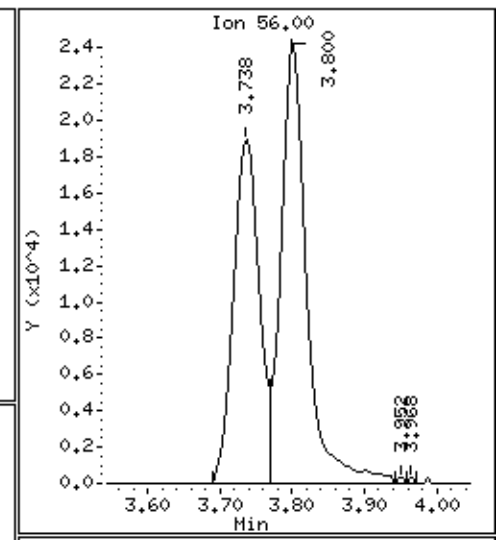
Column phase: DB-624

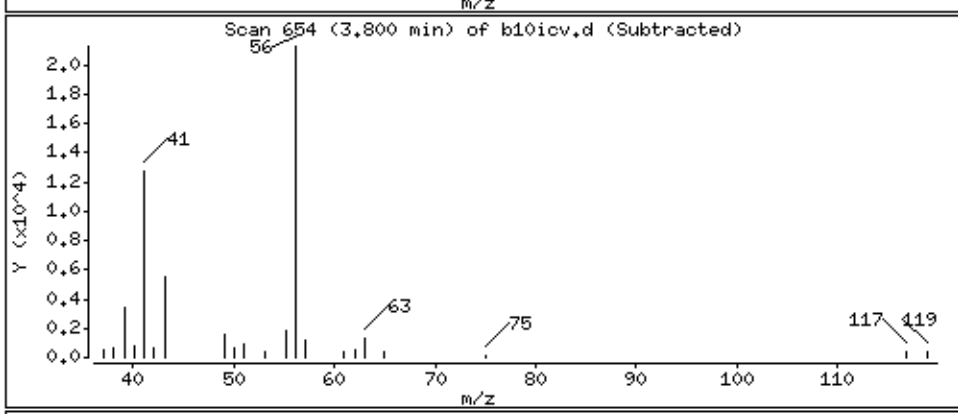
Column diameter: 0.18

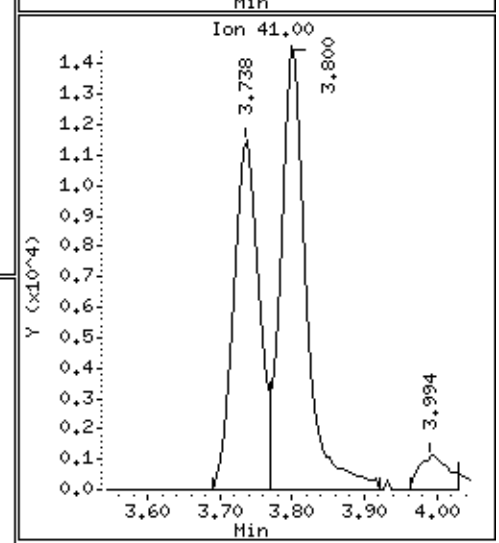
38 n-butyl chloride

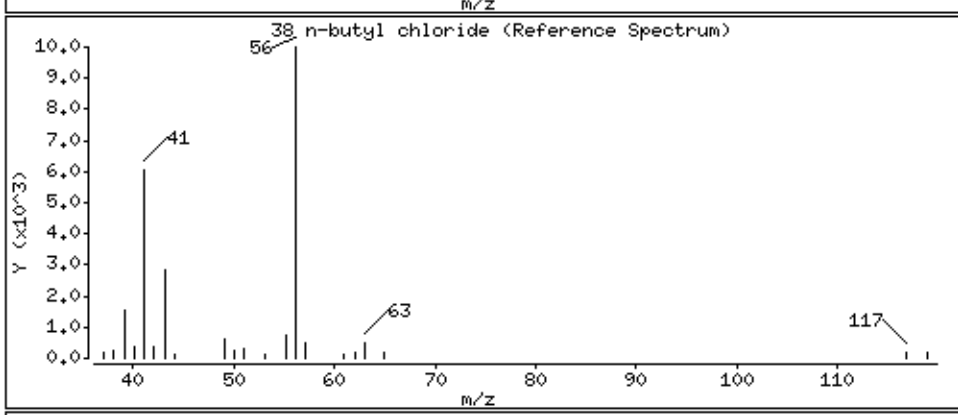
Concentration: 53.7 ppb

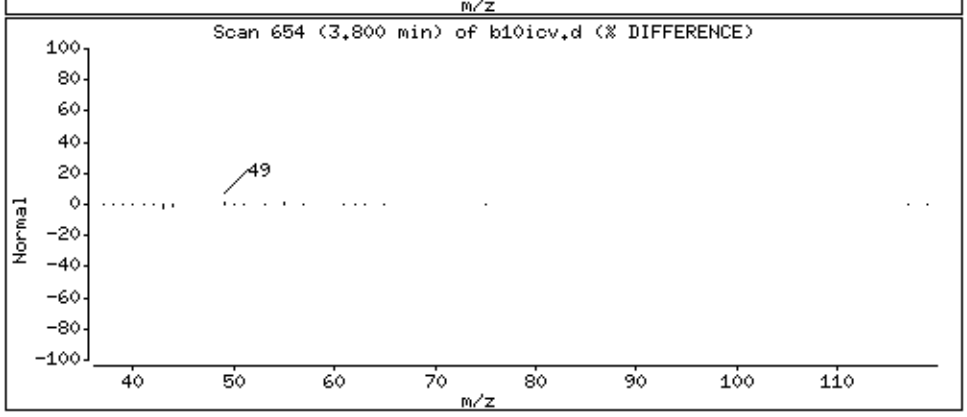












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

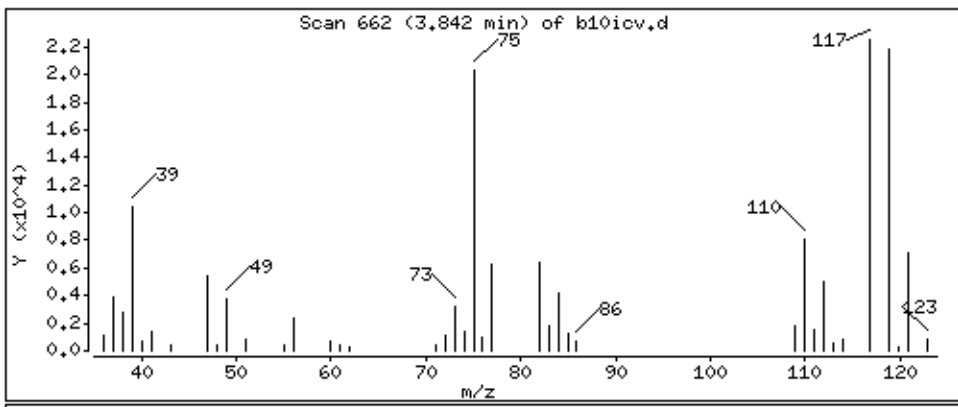
Operator: TMW

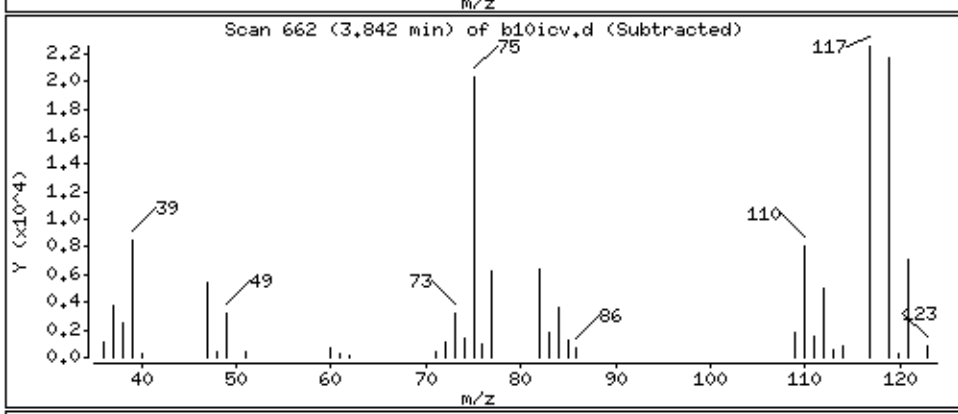
Column phase: DB-624

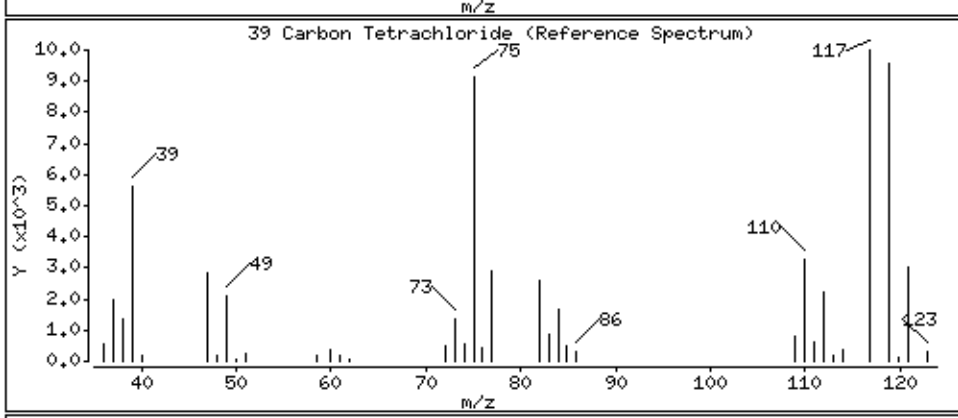
Column diameter: 0.18

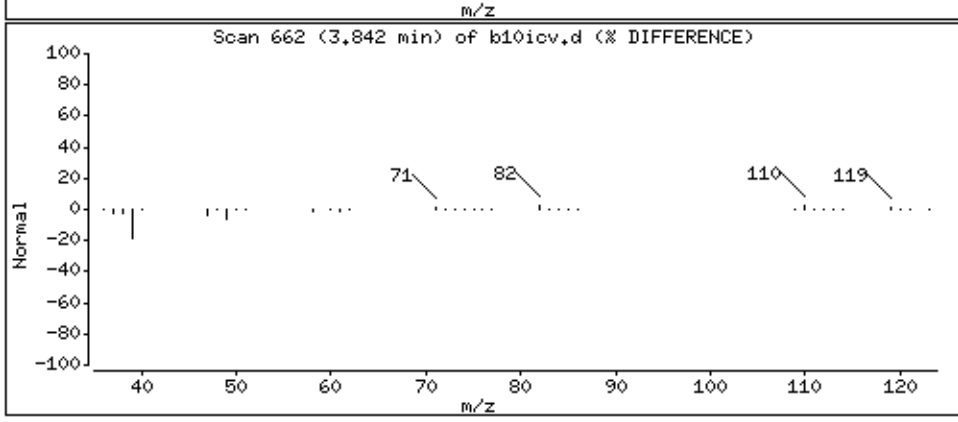
39 Carbon Tetrachloride

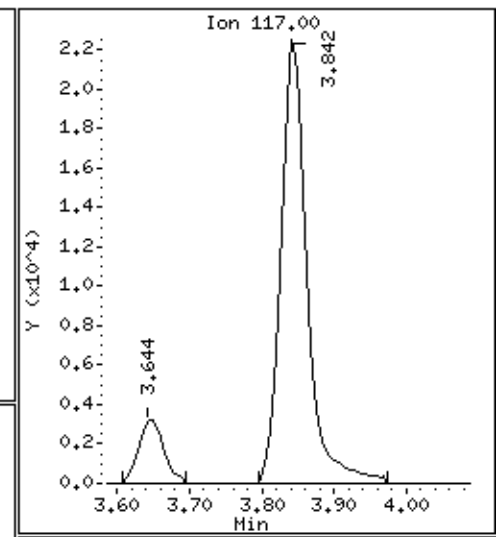
Concentration: 51.3 ppb

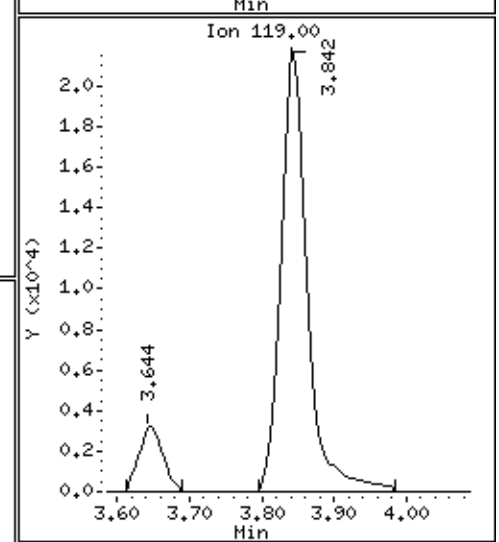


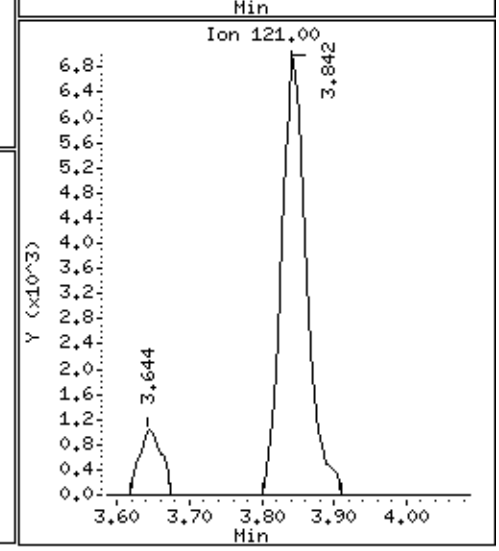












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

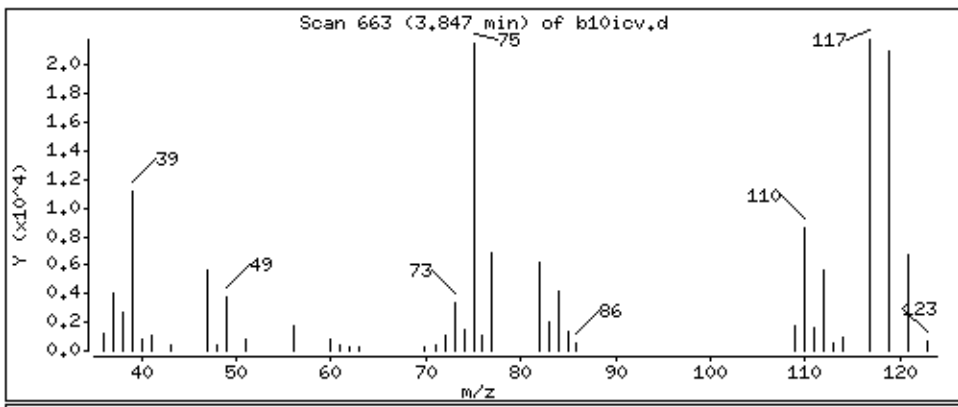
Operator: TMW

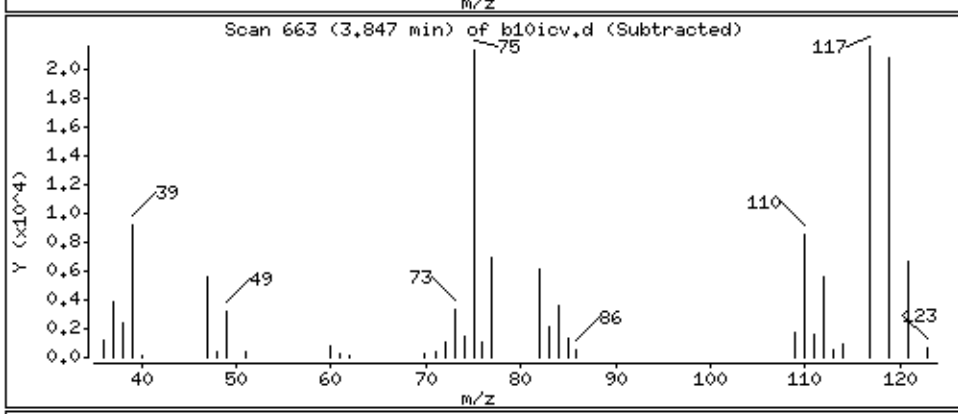
Column phase: DB-624

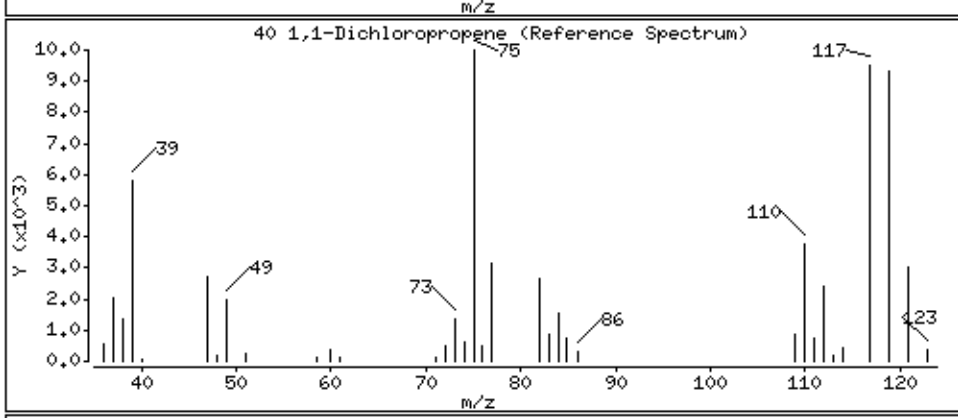
Column diameter: 0.18

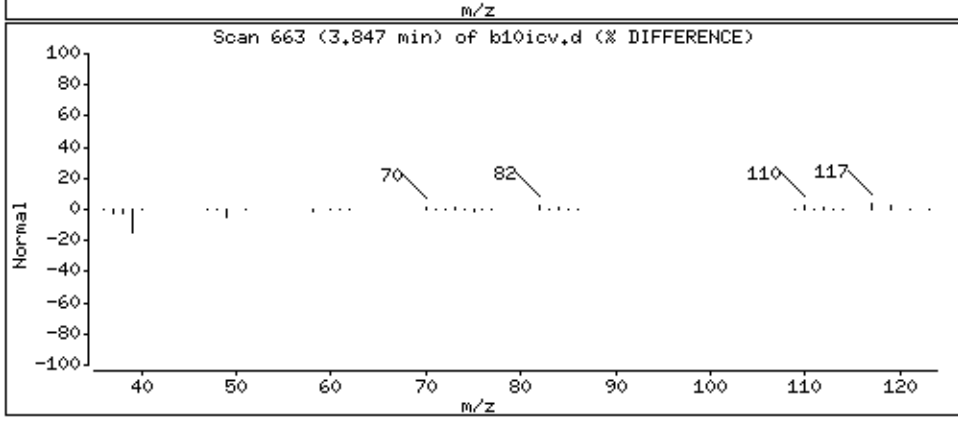
40 1,1-Dichloropropene

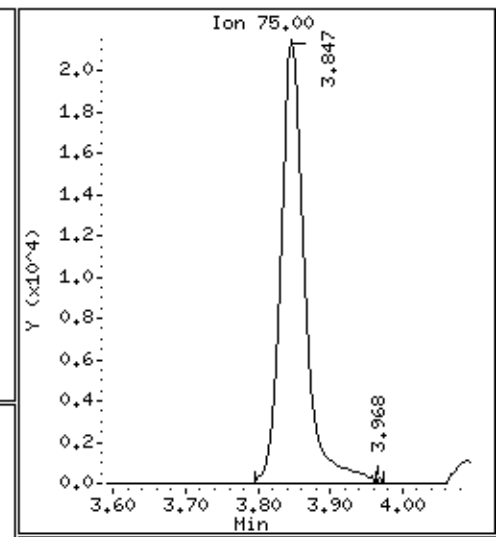
Concentration: 50.6 ppb

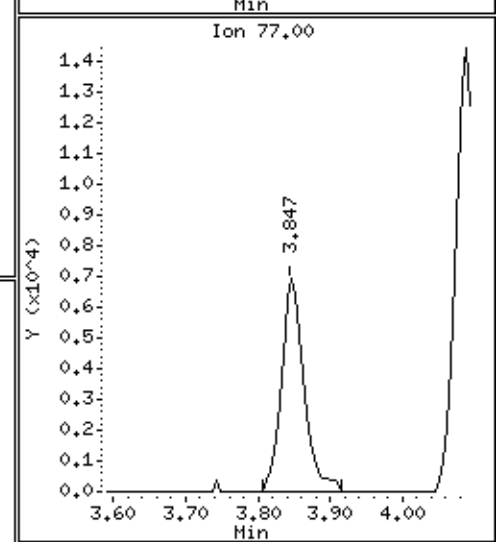


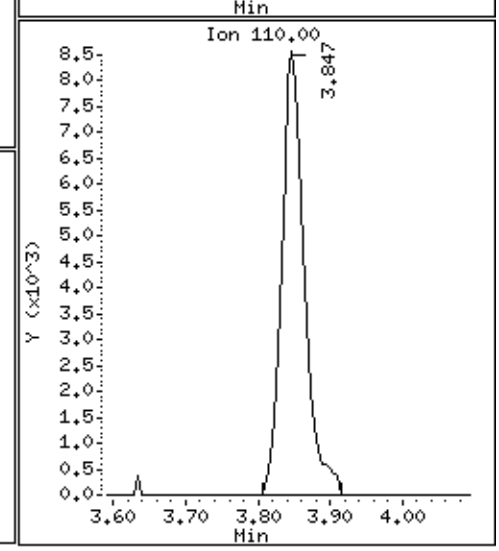












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

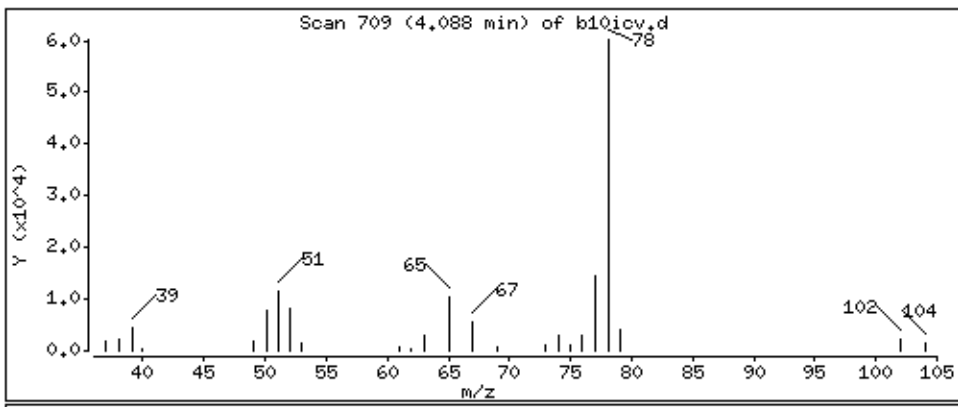
Operator: TMW

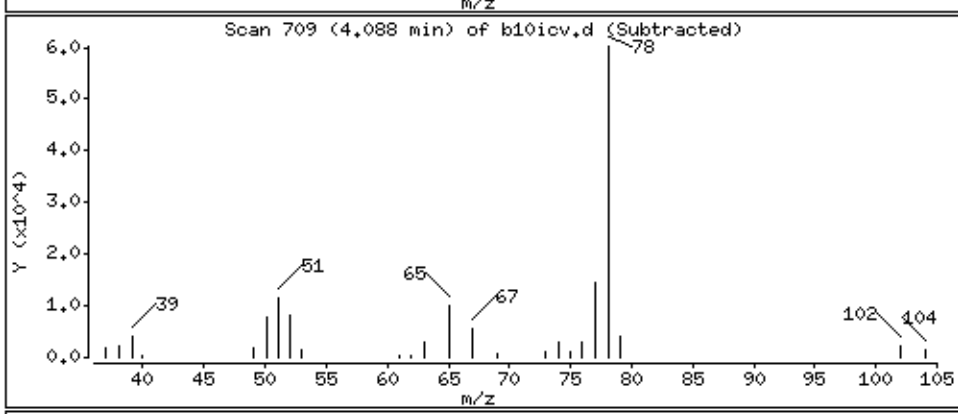
Column phase: DB-624

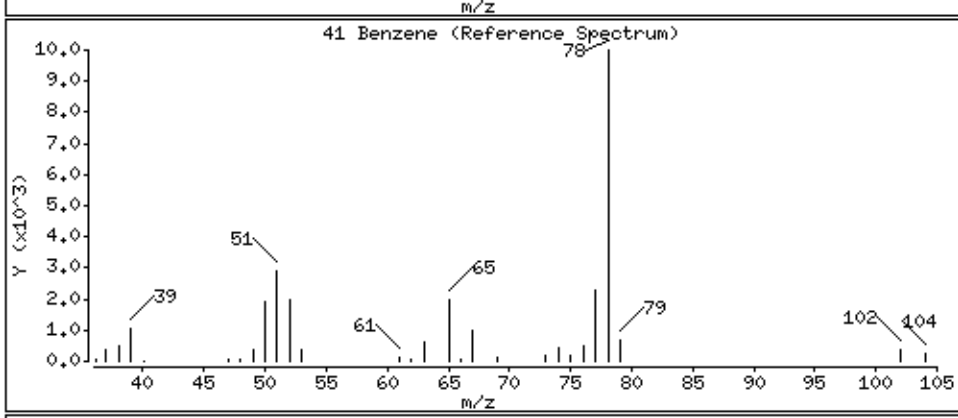
Column diameter: 0.18

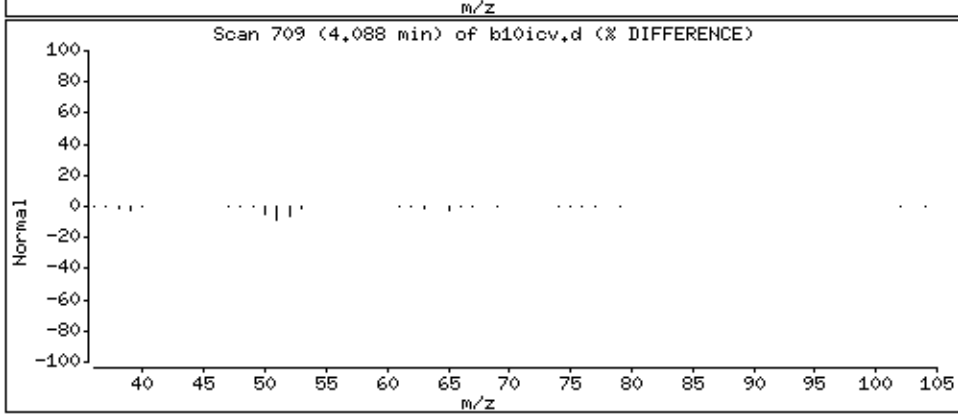
41 Benzene

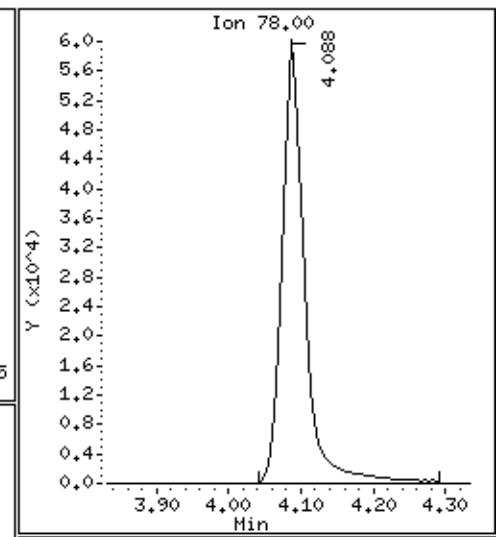
Concentration: 45.9 ppb

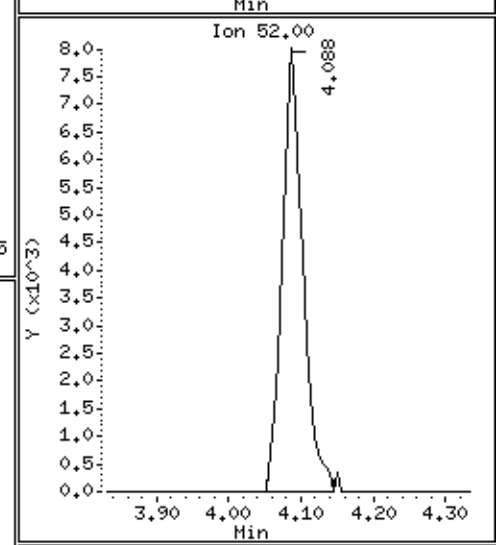


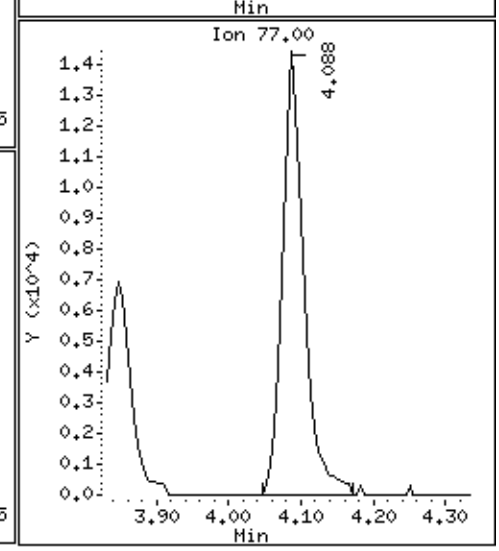












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

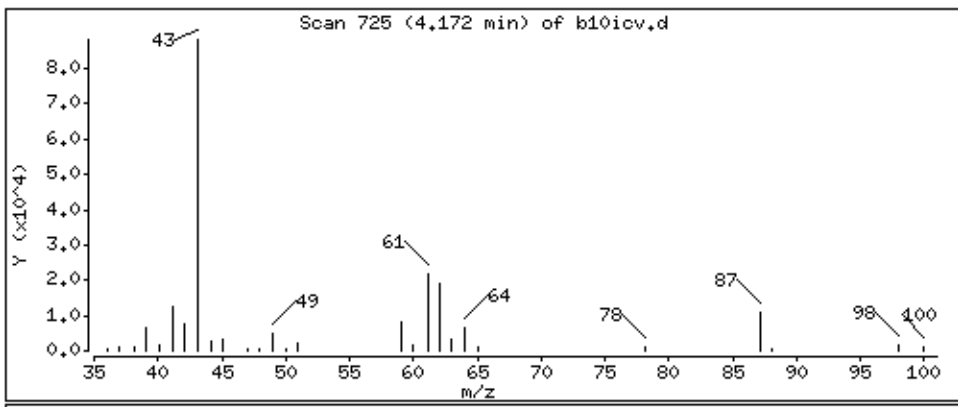
Operator: TMW

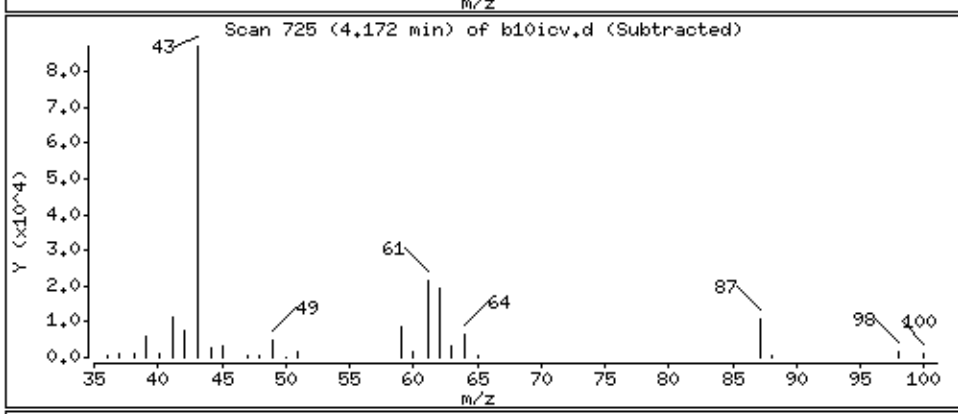
Column phase: DB-624

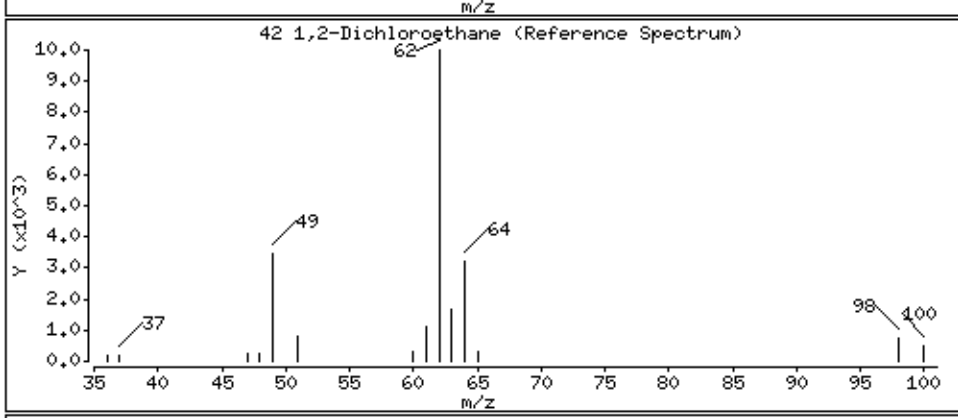
Column diameter: 0.18

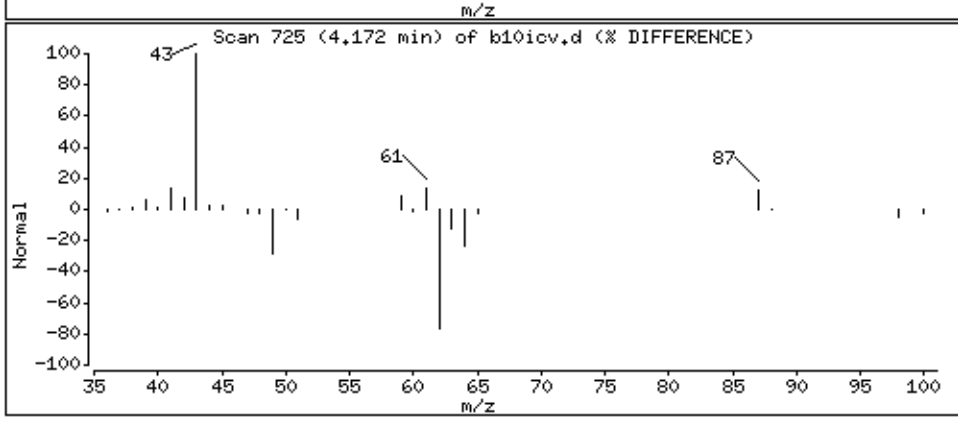
42 1,2-Dichloroethane

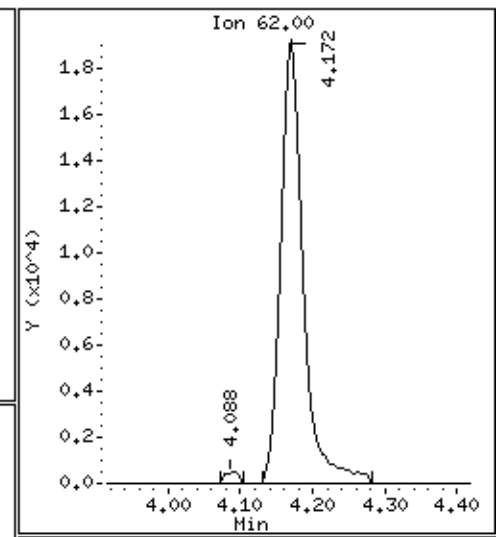
Concentration: 47.9 ppb

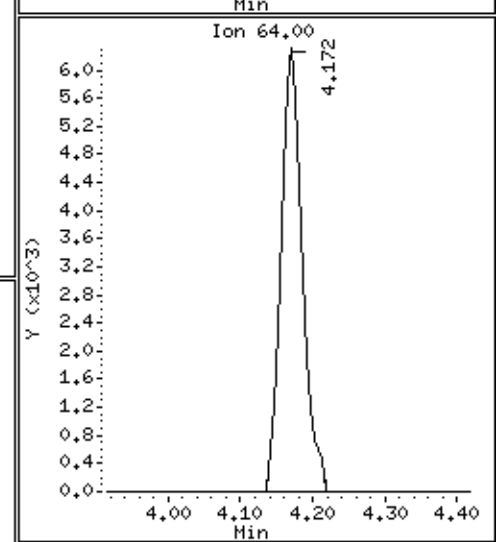


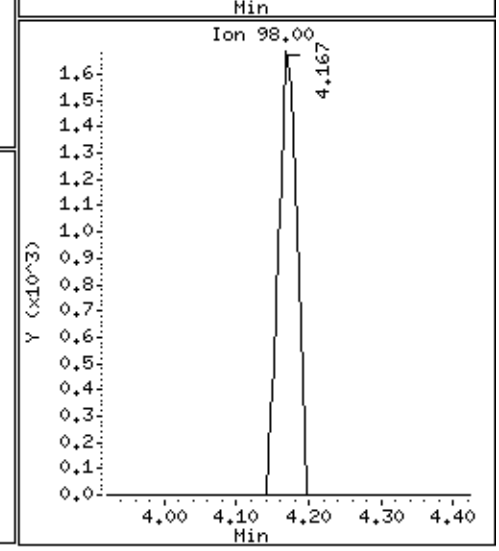












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

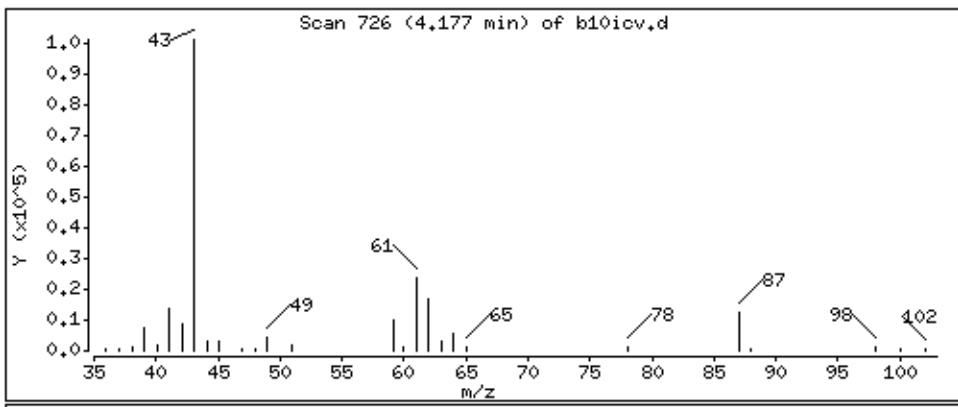
Operator: TMW

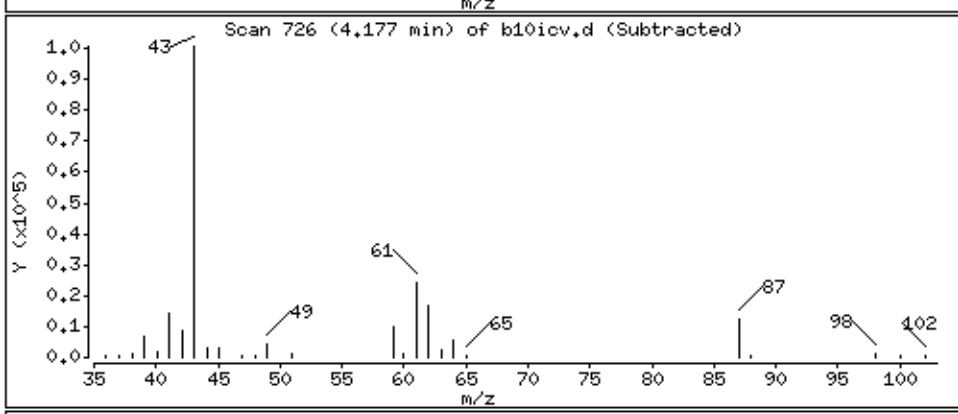
Column phase: DB-624

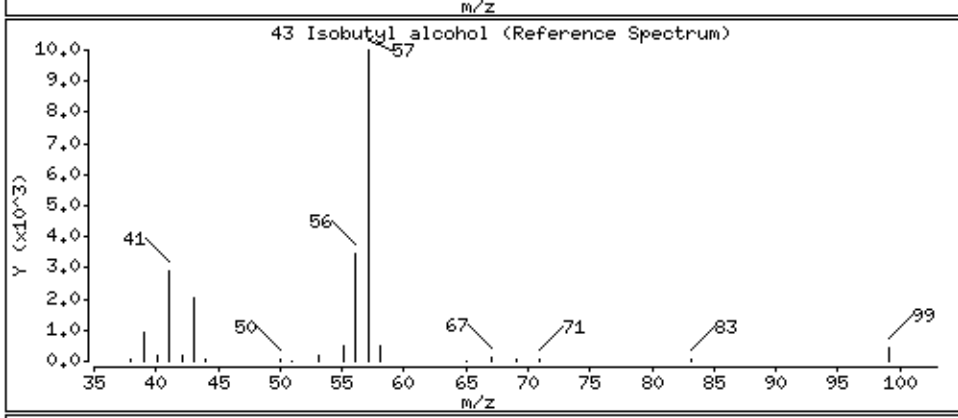
Column diameter: 0.18

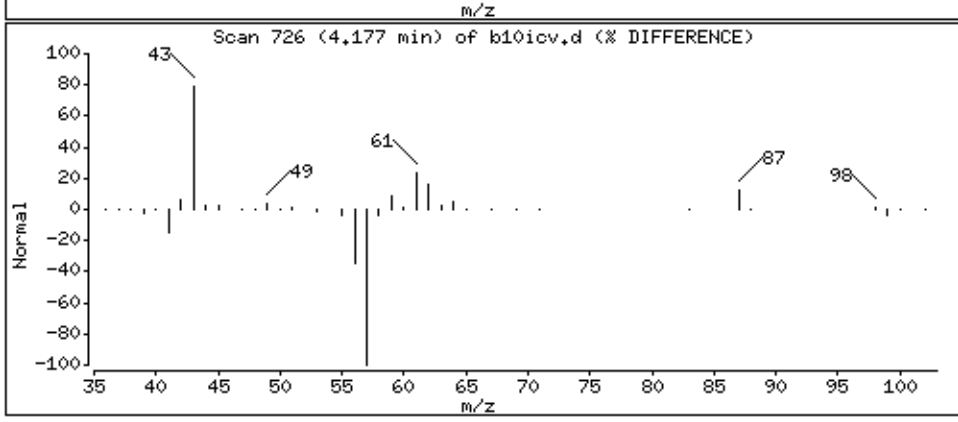
43 Isobutyl alcohol

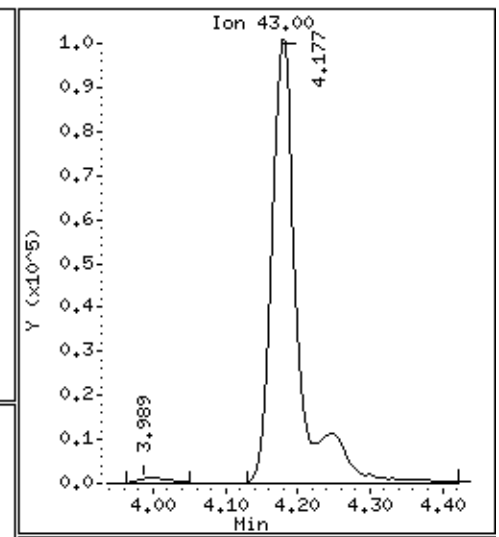
Concentration: 67.6 ppb

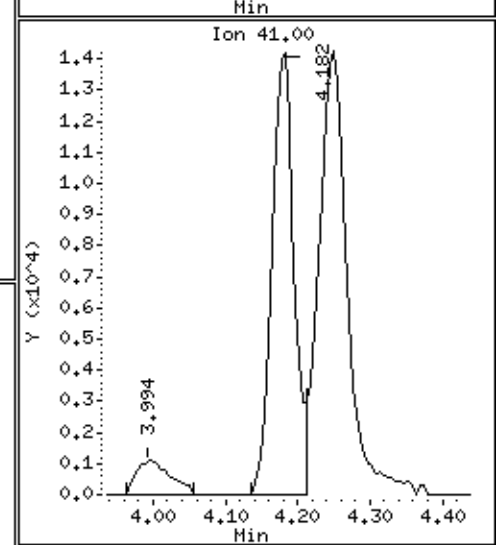


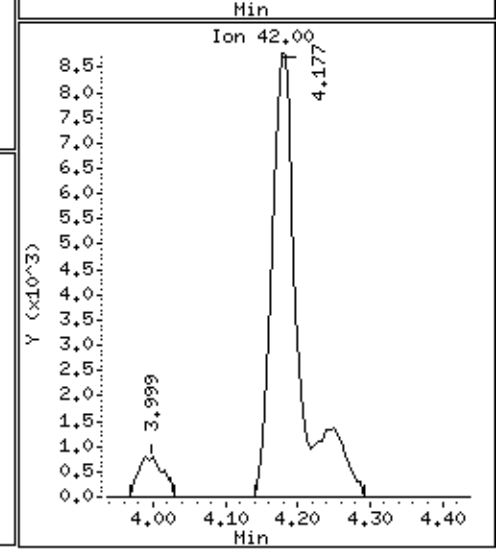












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

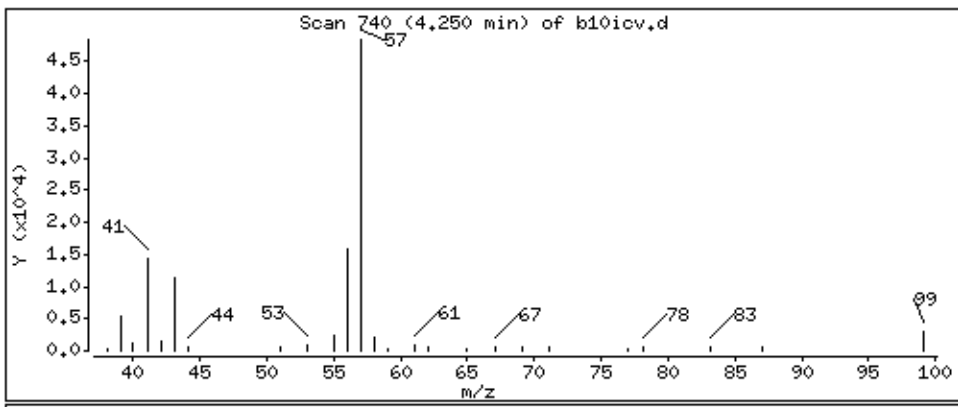
Client ID: 8260-ICV,139204:0 Instrument: 50mv5b.i

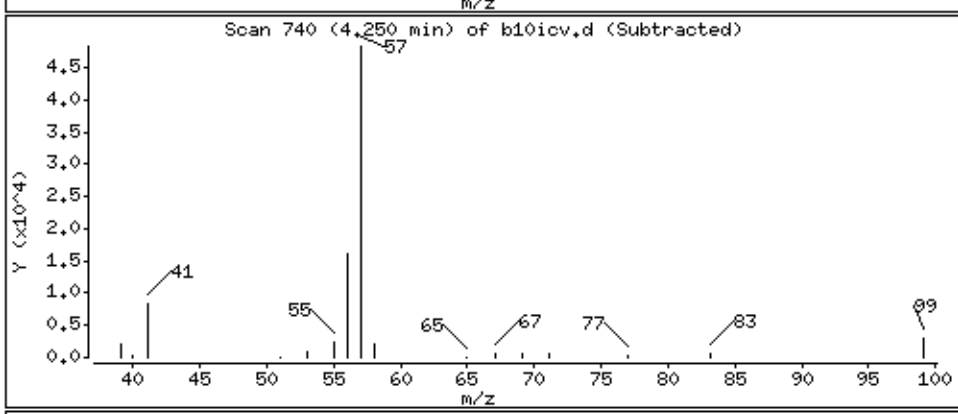
Sample Info: 8260-ICV,139204:0

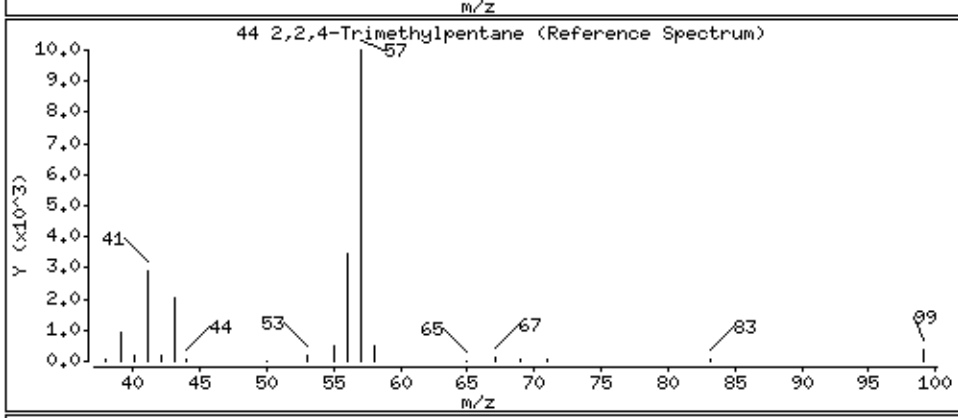
Purge Volume: 5.0 Operator: TMW

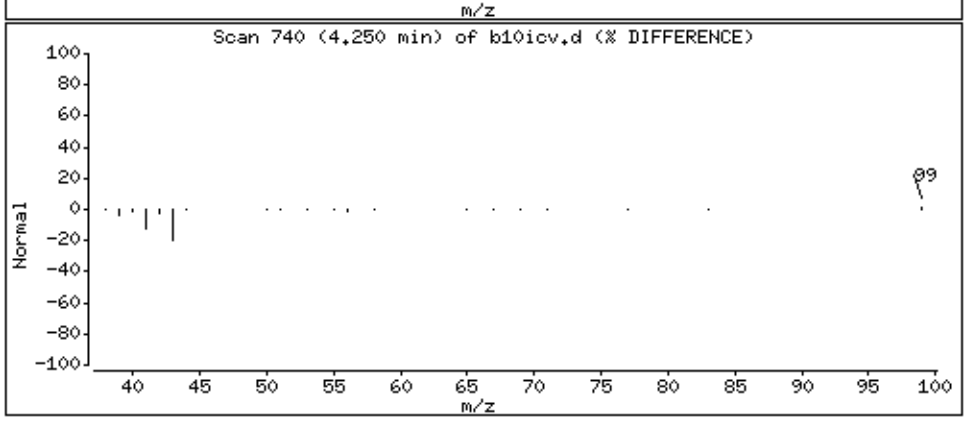
Column phase: DB-624 Column diameter: 0.18

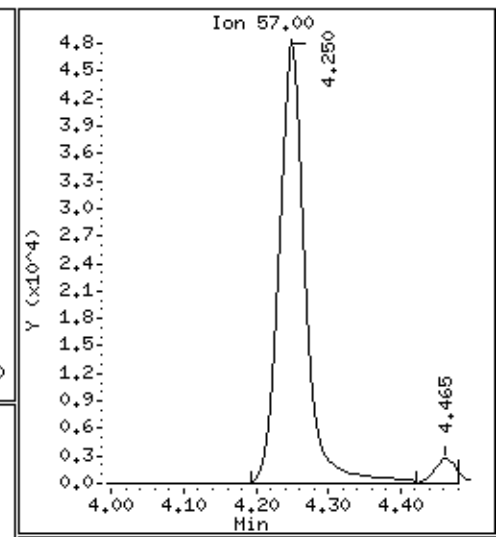
44 2,2,4-Trimethylpentane Concentration: 56.2 ppb

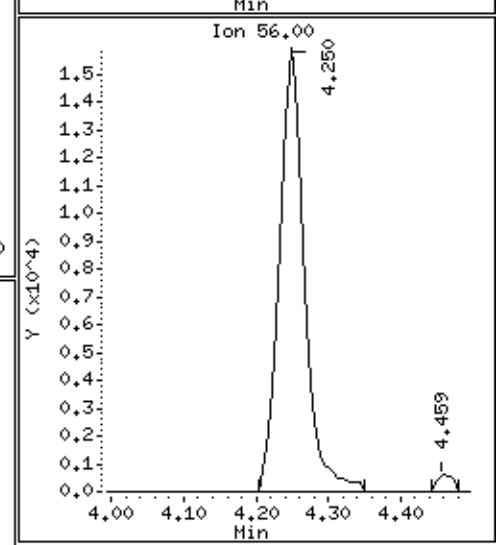












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

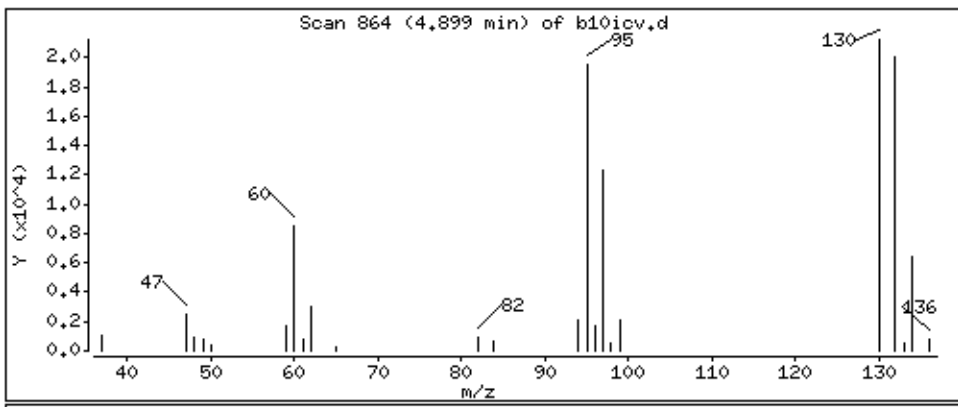
Operator: TMW

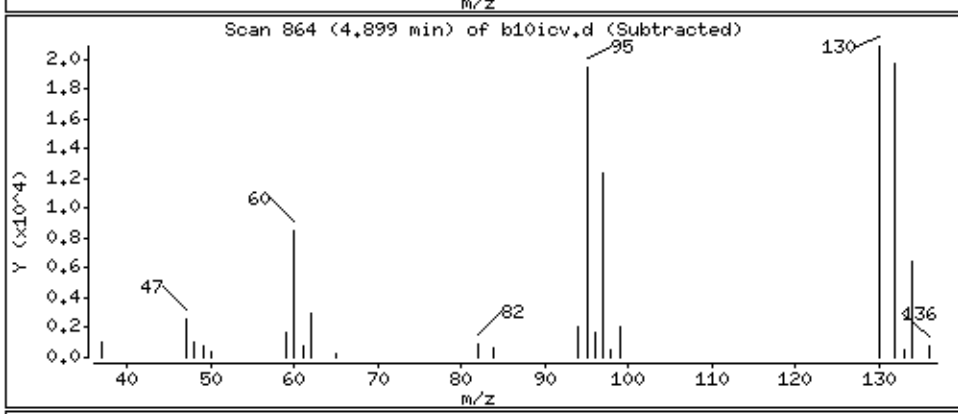
Column phase: DB-624

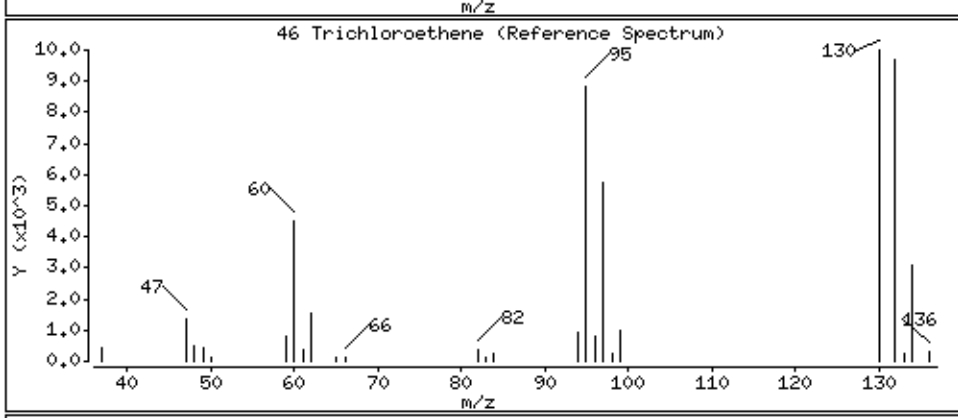
Column diameter: 0.18

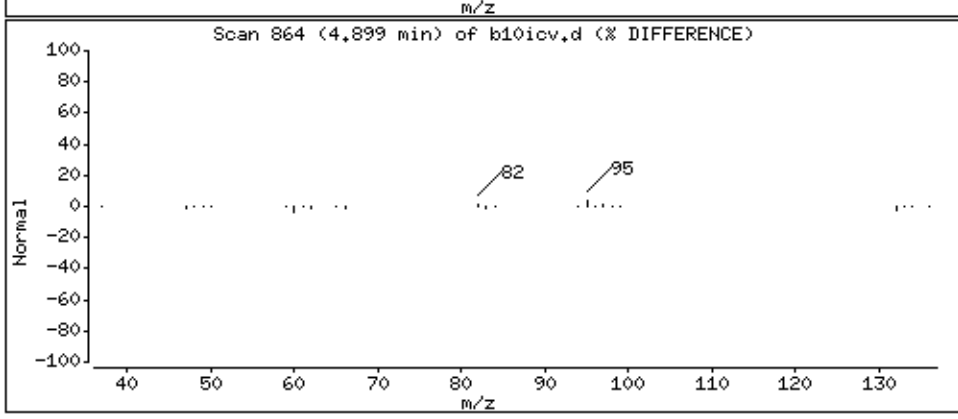
46 Trichloroethene

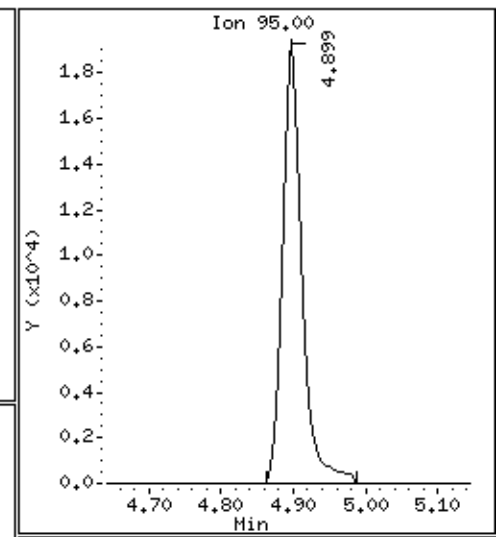
Concentration: 48.5 ppb

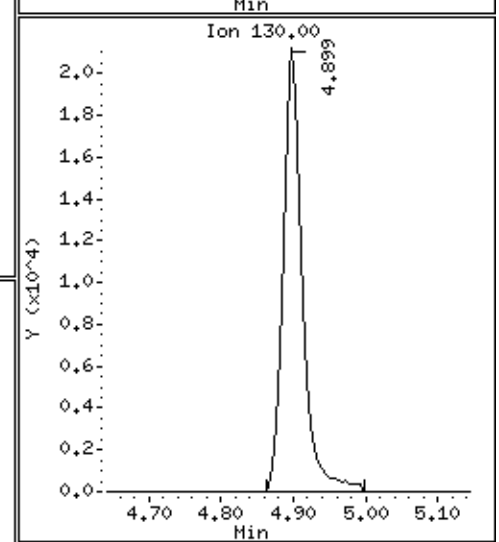


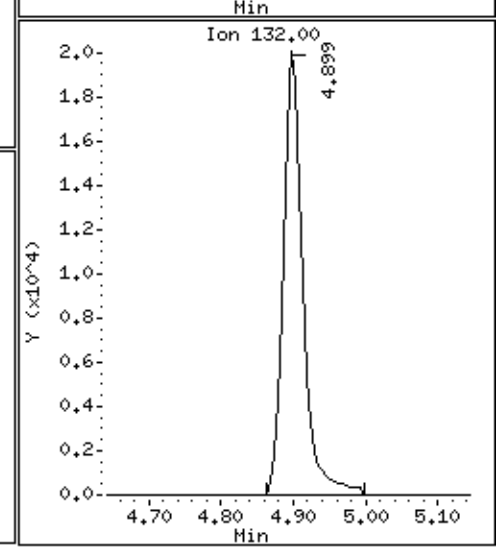












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

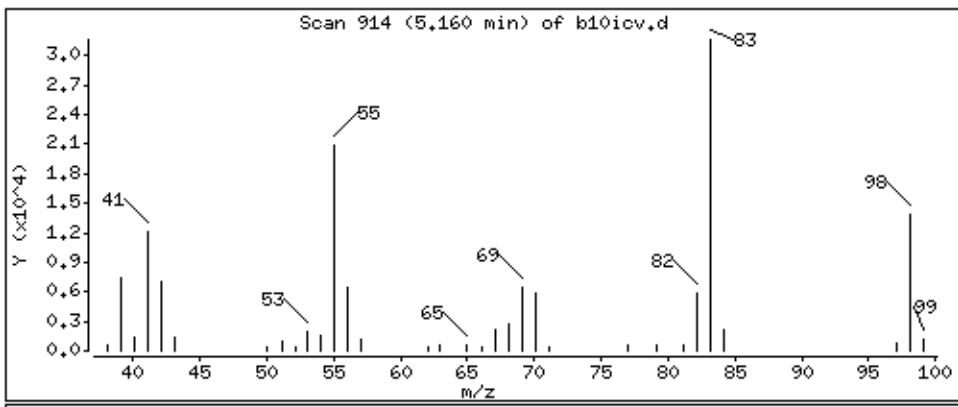
Operator: TMW

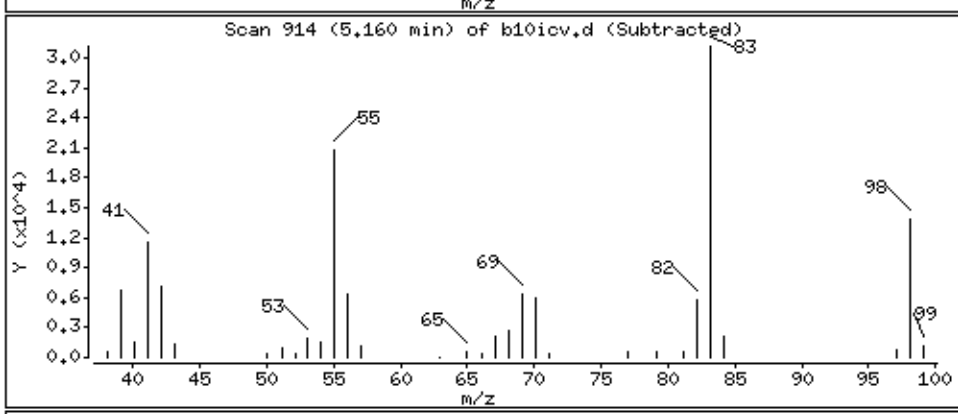
Column phase: DB-624

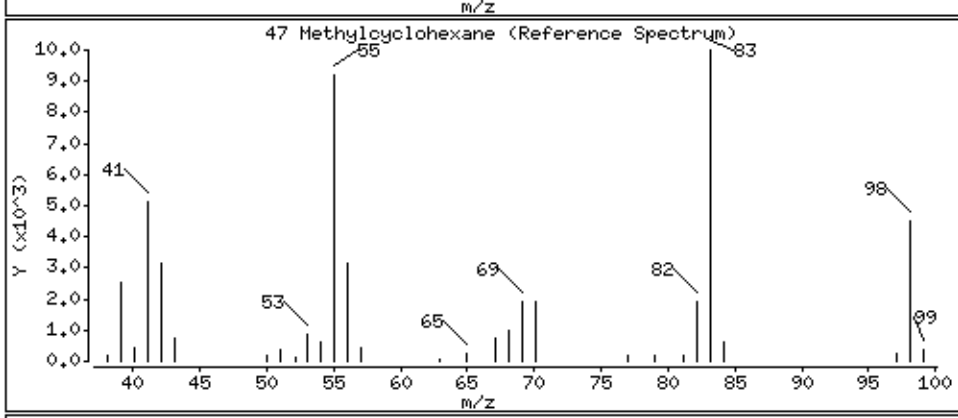
Column diameter: 0.18

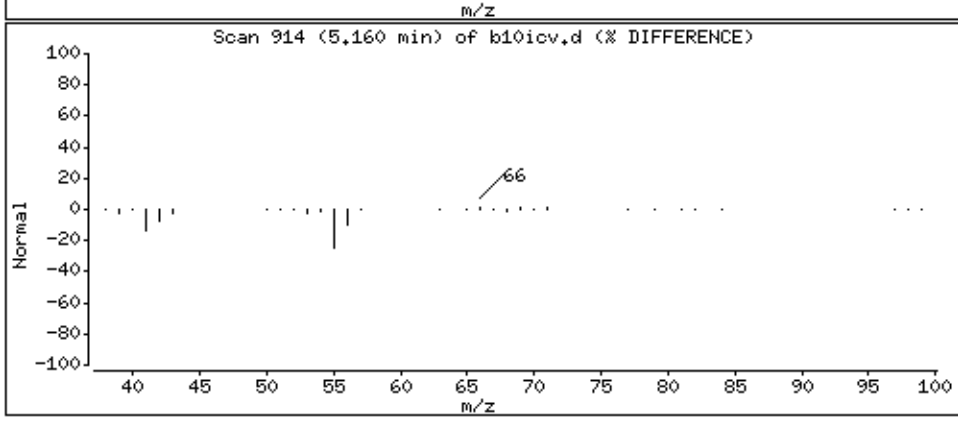
47 Methylcyclohexane

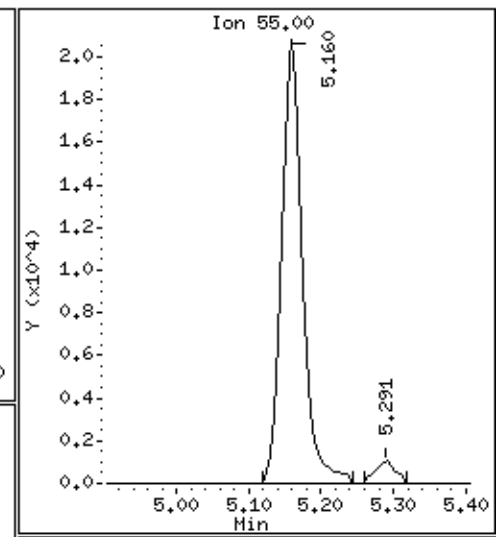
Concentration: 52.5 ppb

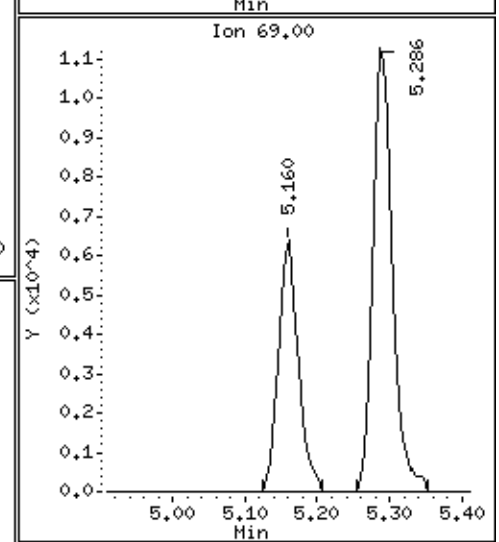


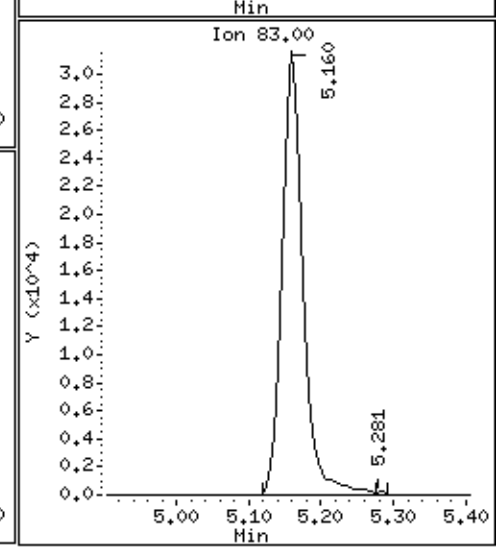












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

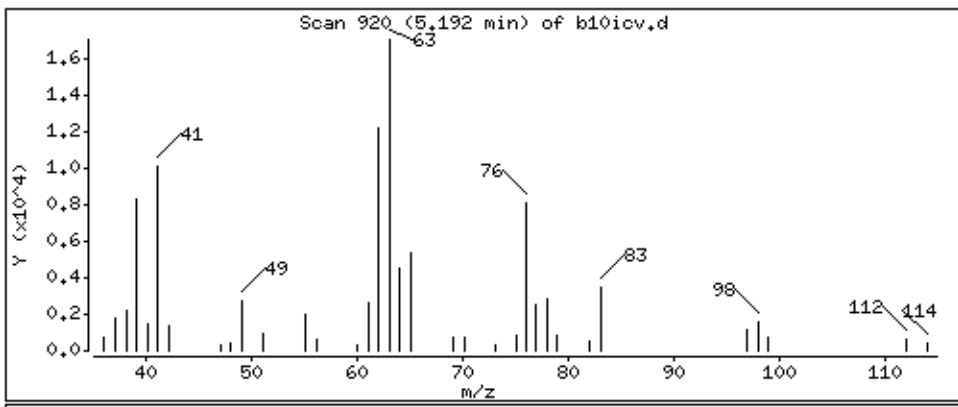
Operator: TMW

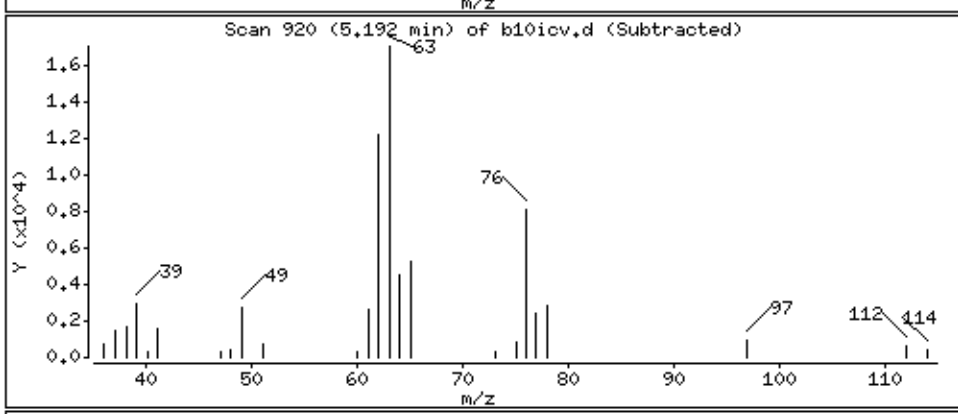
Column phase: DB-624

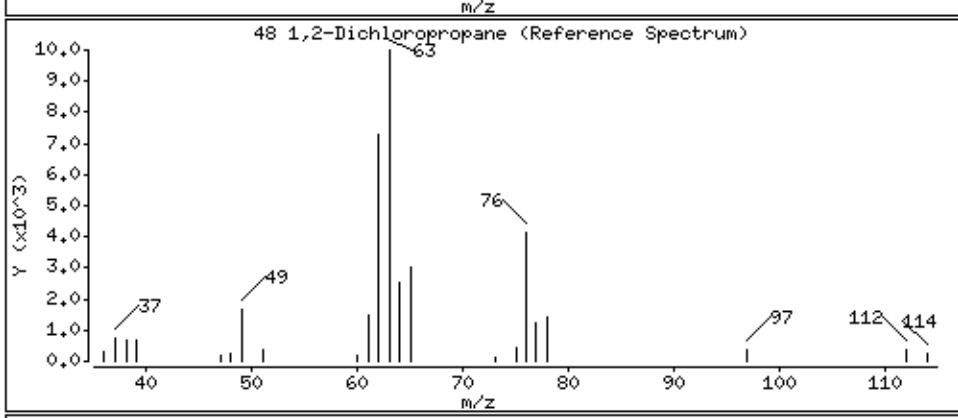
Column diameter: 0.18

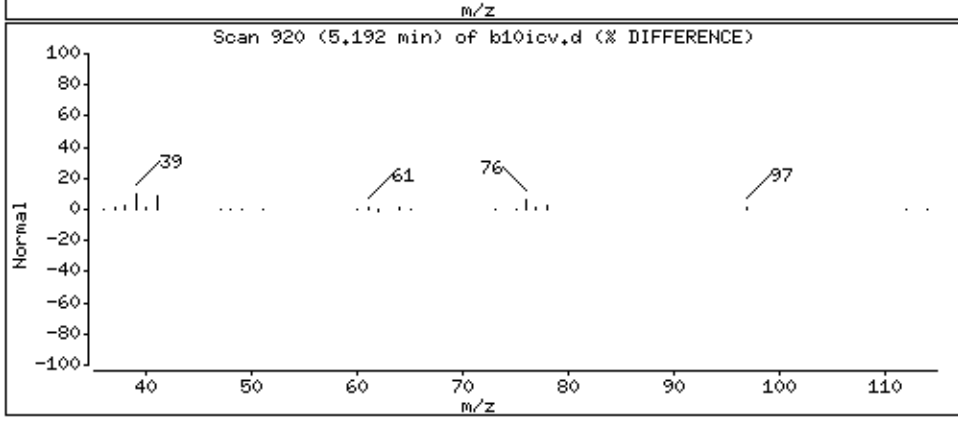
48 1,2-Dichloropropane

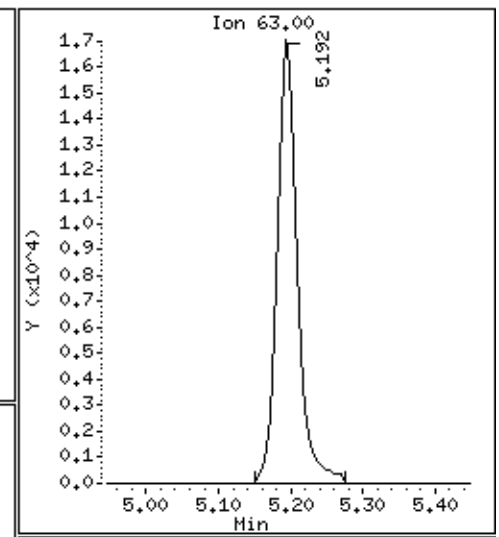
Concentration: 51.9 ppb

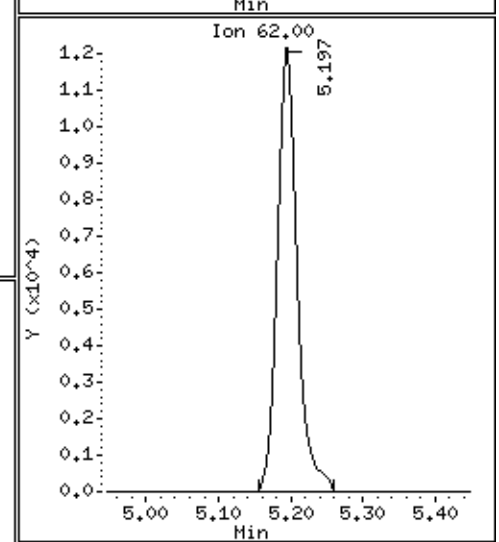


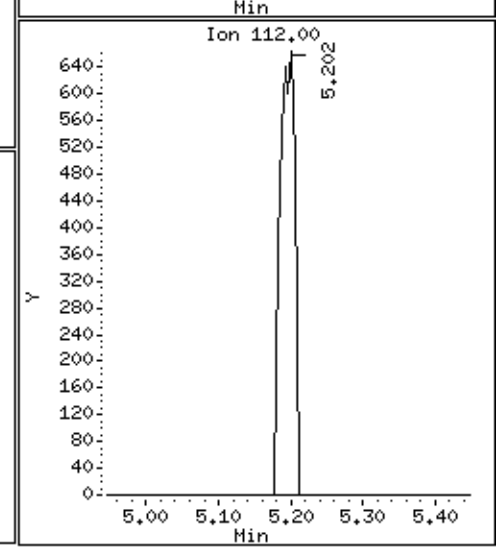












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

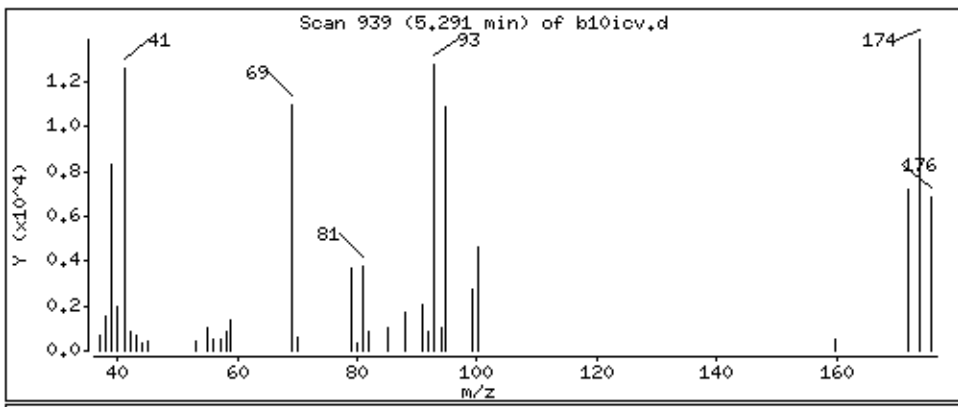
Operator: TMW

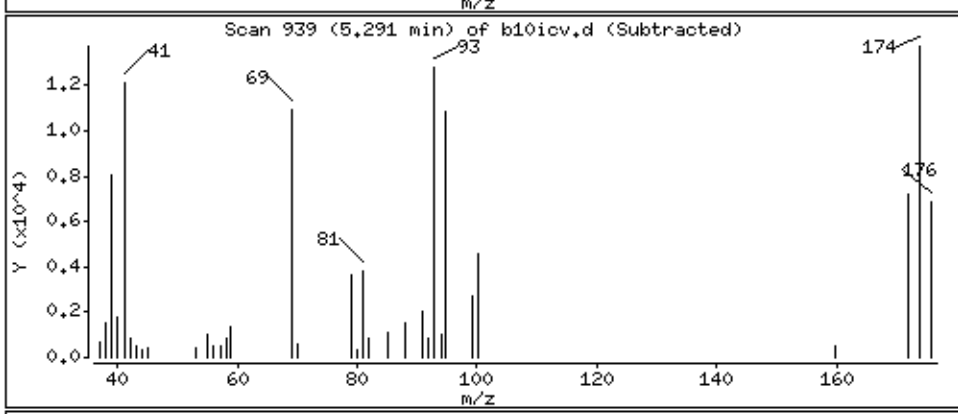
Column phase: DB-624

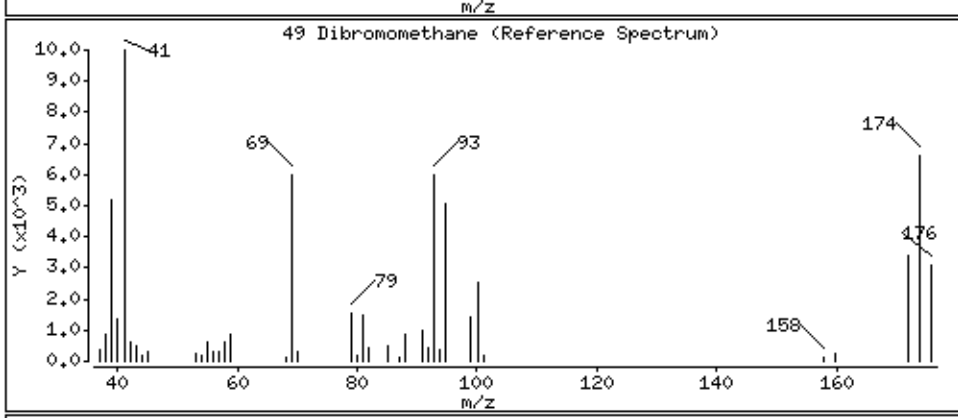
Column diameter: 0.18

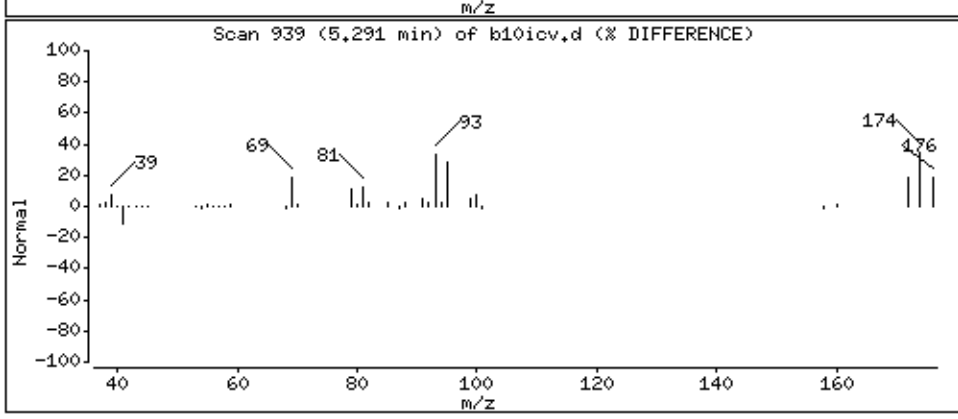
49 Dibromomethane

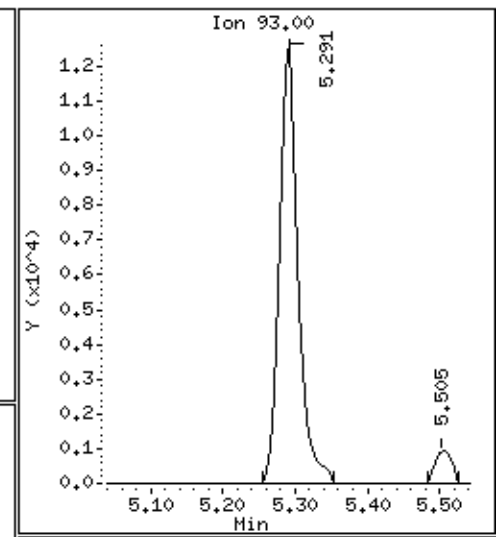
Concentration: 47.8 ppb

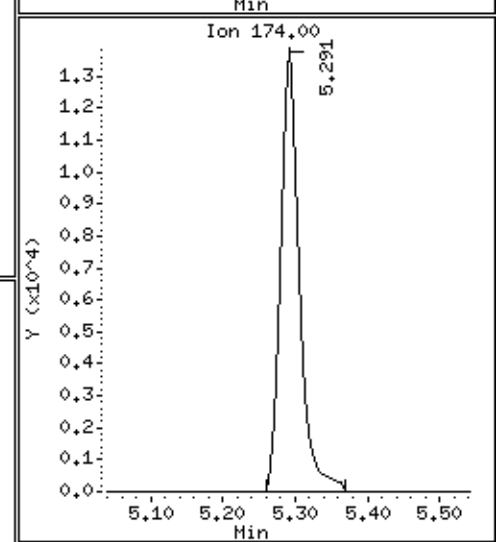


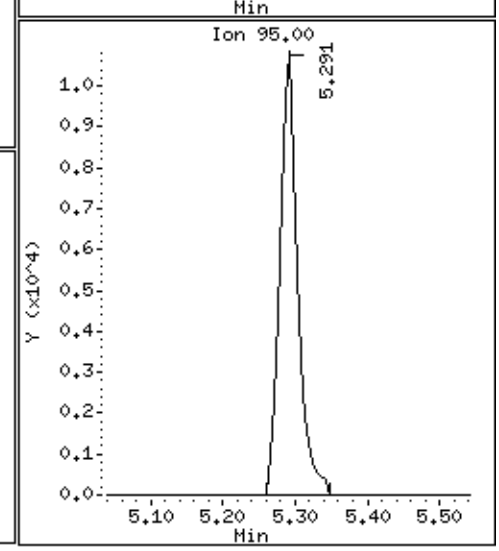












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

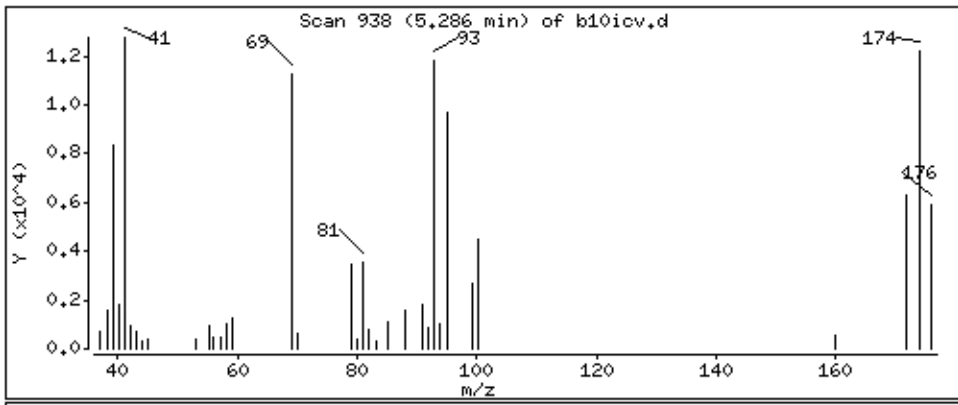
Operator: TMW

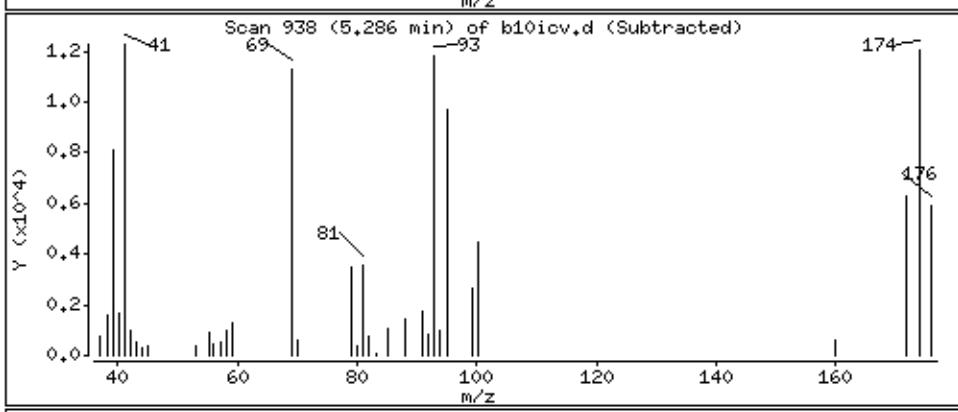
Column phase: DB-624

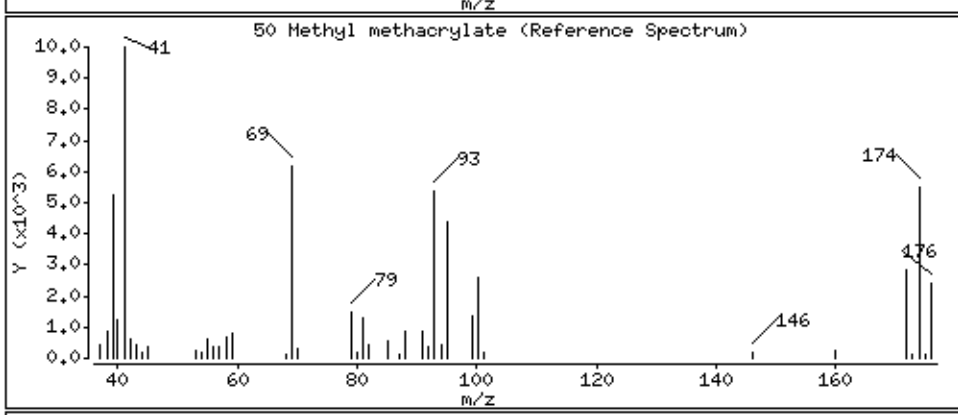
Column diameter: 0.18

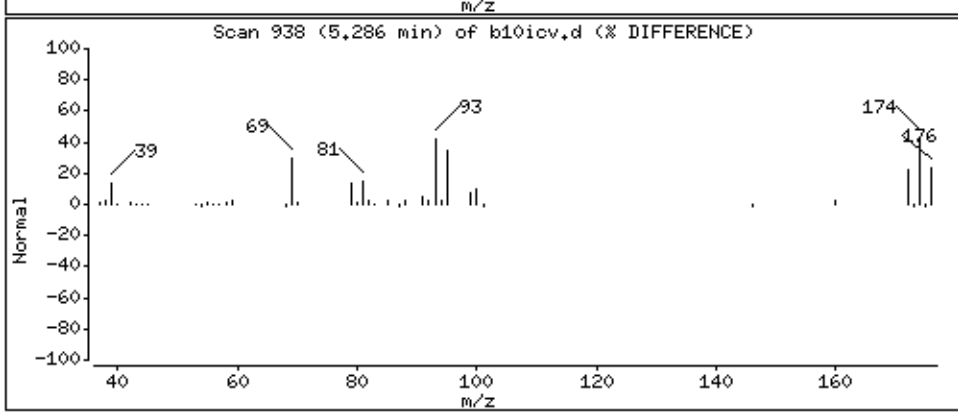
50 Methyl methacrylate

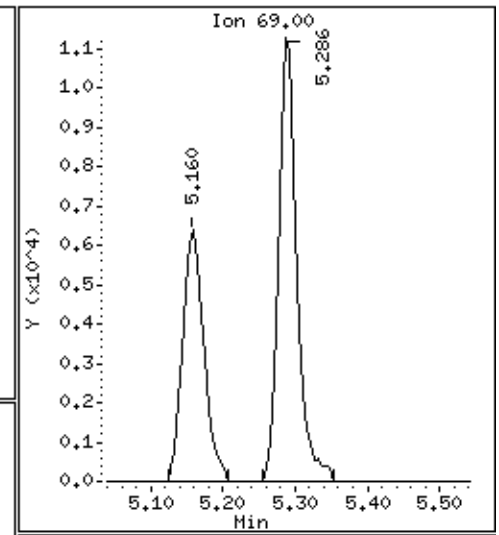
Concentration: 51.6 ppb

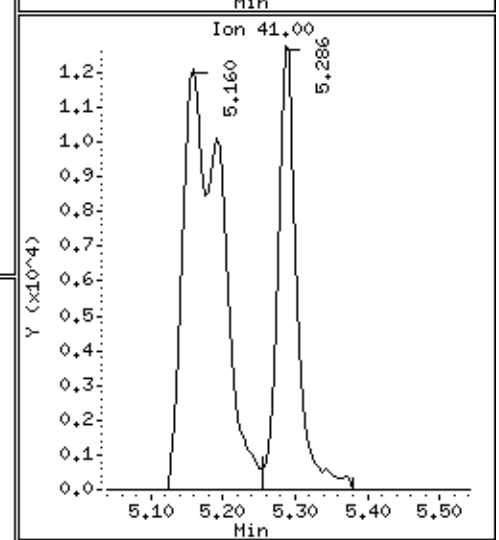


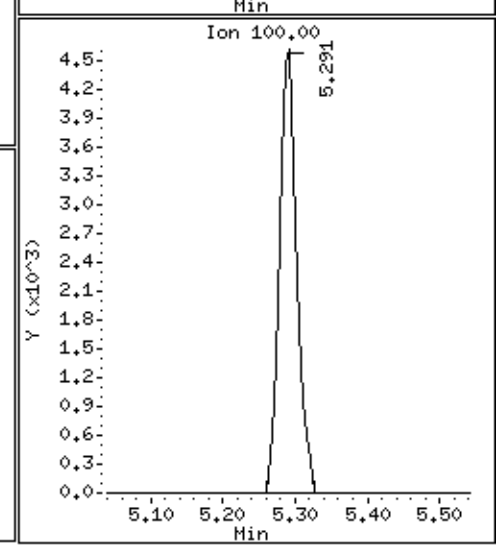












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

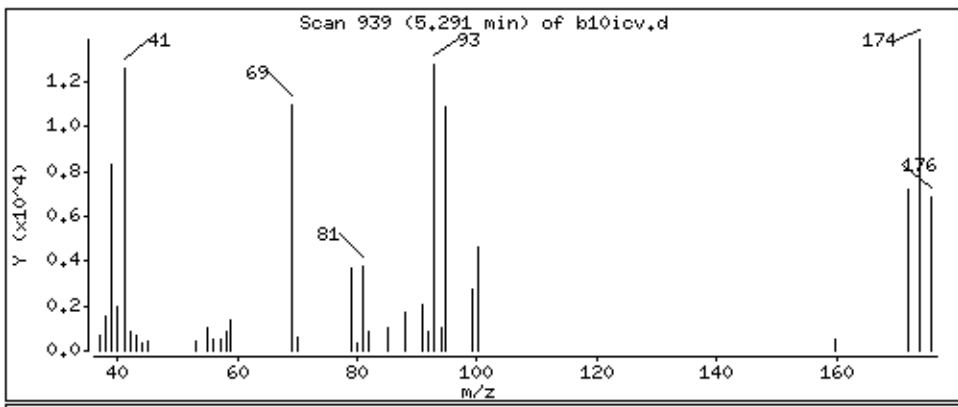
Operator: TMW

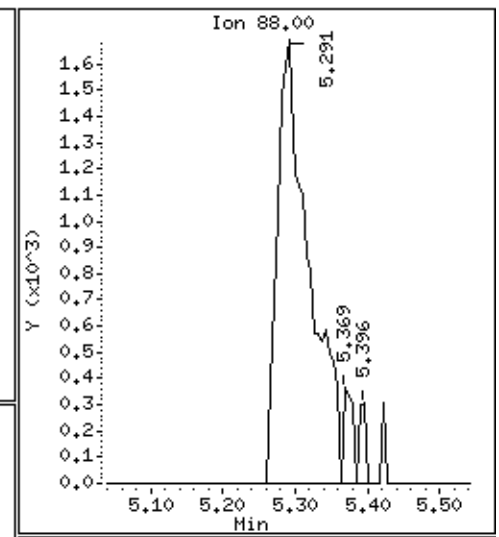
Column phase: DB-624

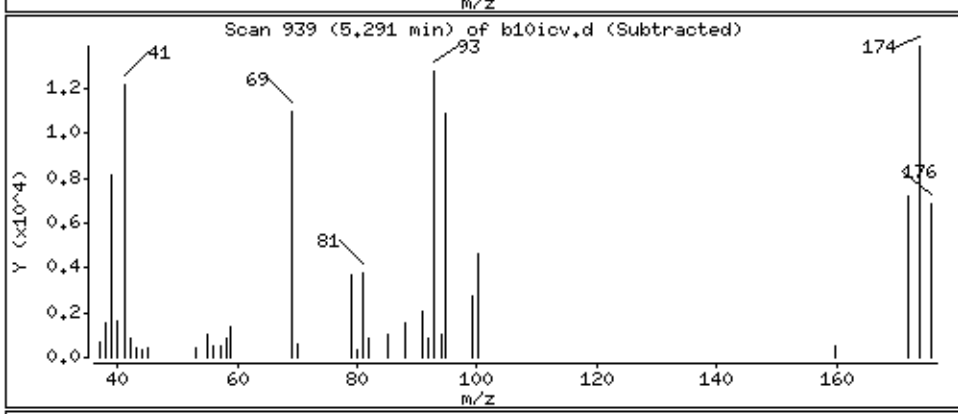
Column diameter: 0.18

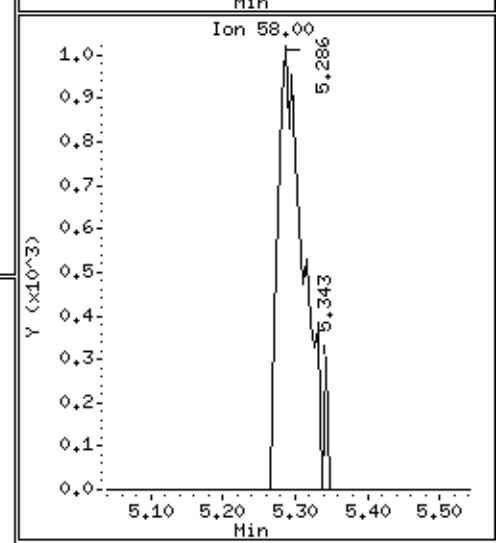
51 1,4-Dioxane

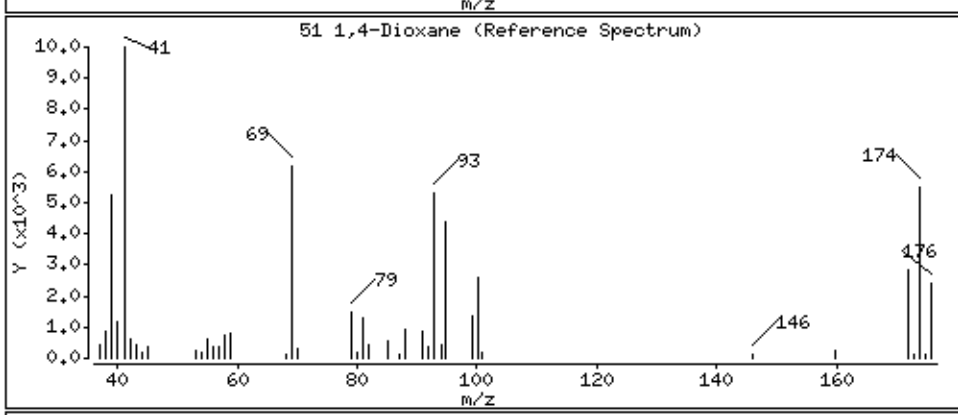
Concentration: 877 ppb

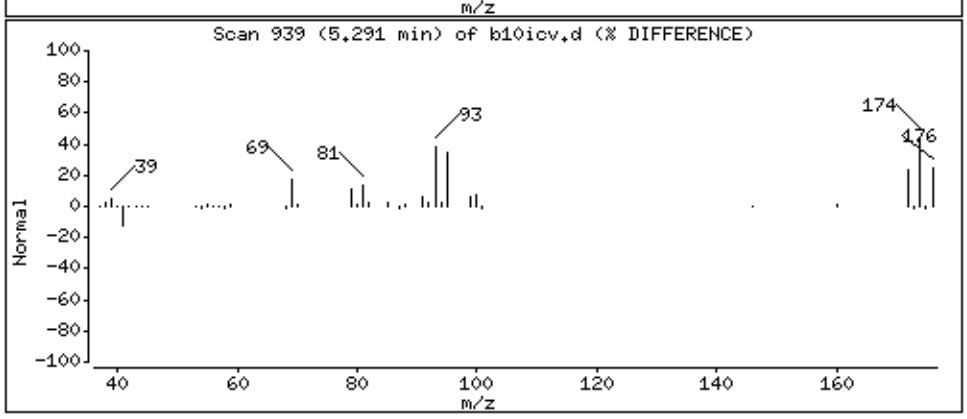












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

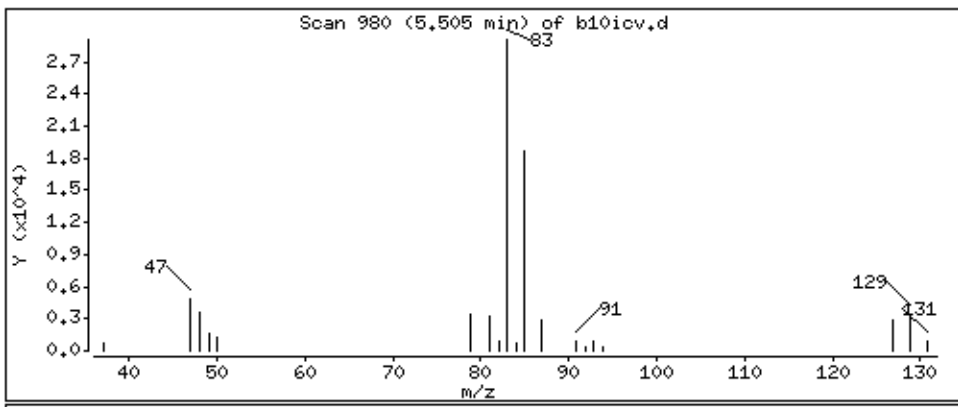
Operator: TMW

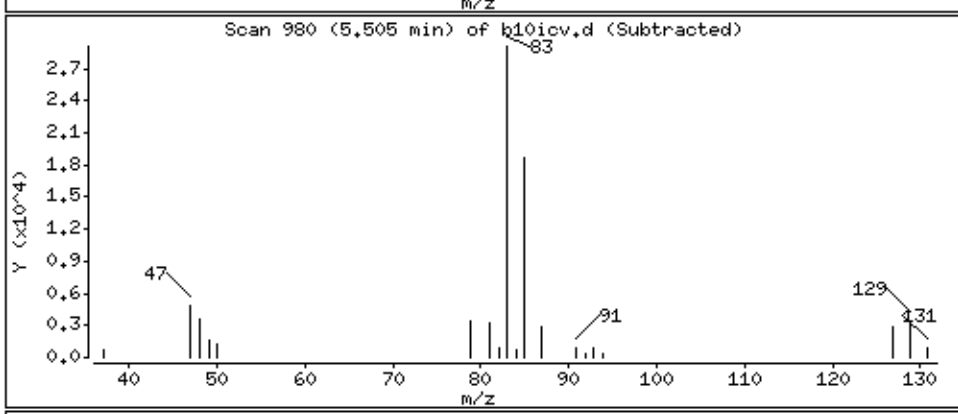
Column phase: DB-624

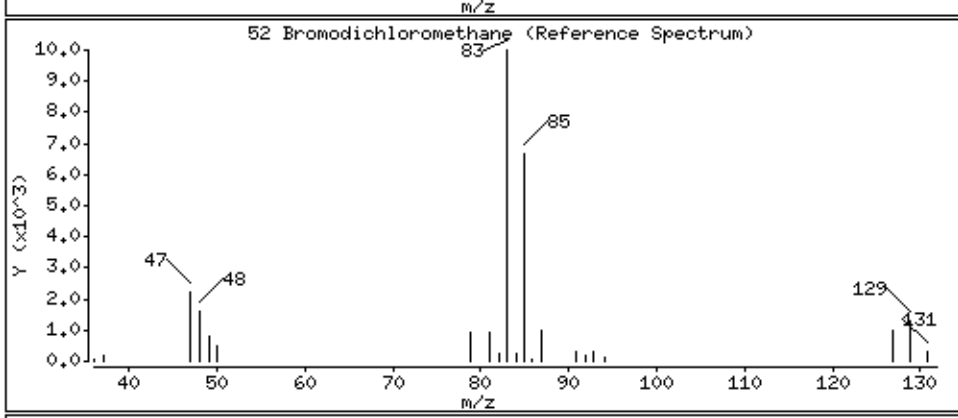
Column diameter: 0.18

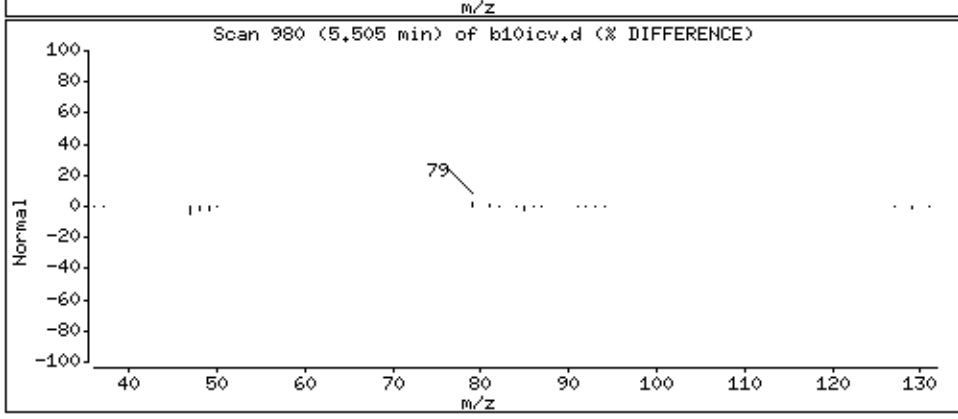
52 Bromodichloromethane

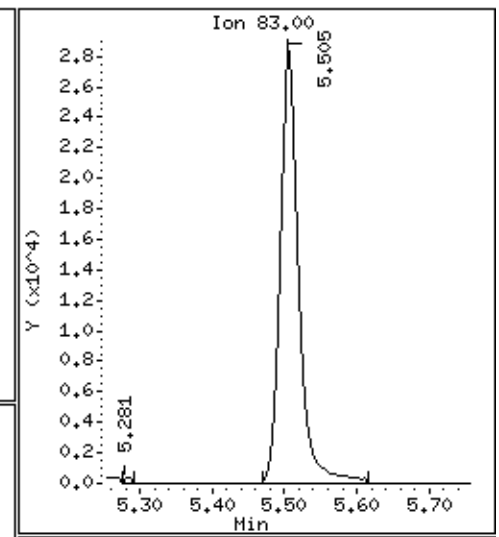
Concentration: 50.2 ppb

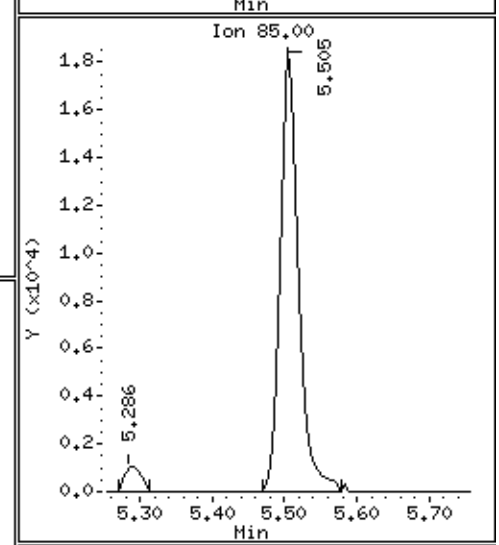


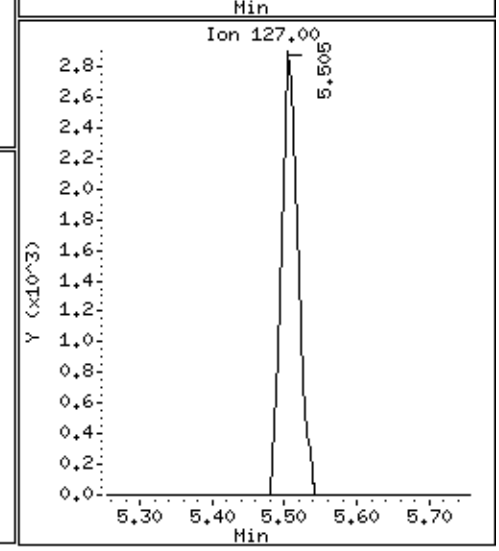












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

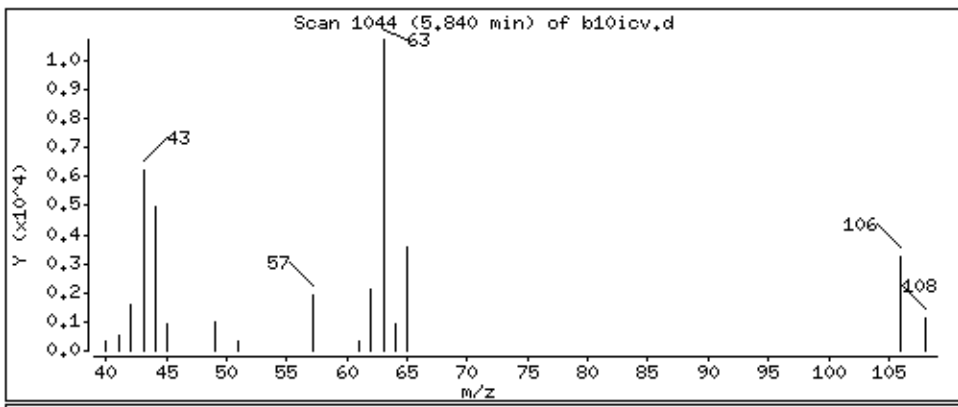
Operator: TMW

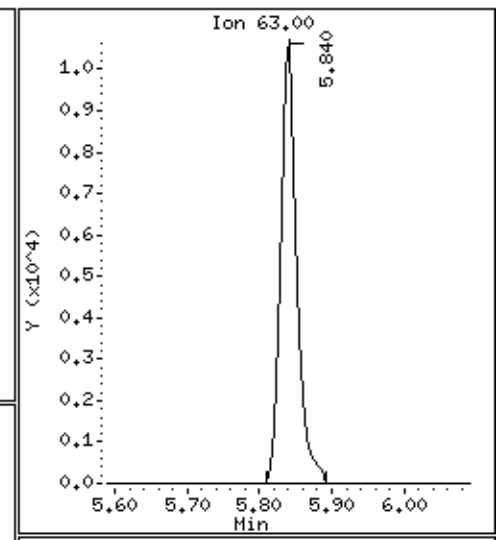
Column phase: DB-624

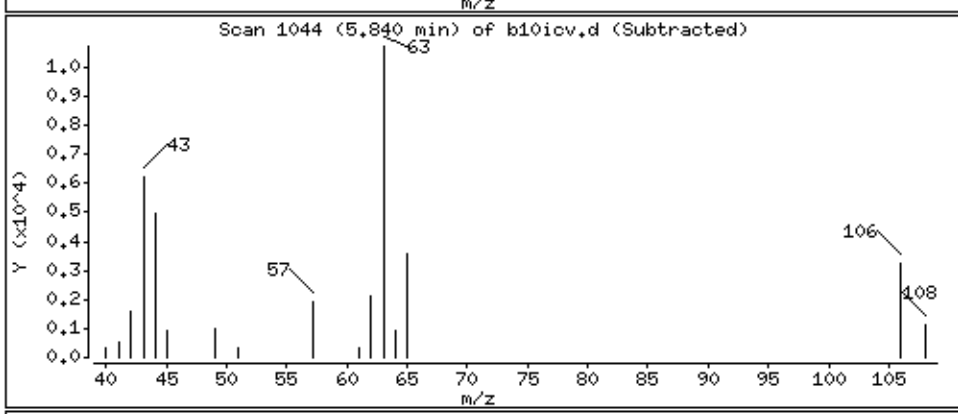
Column diameter: 0.18

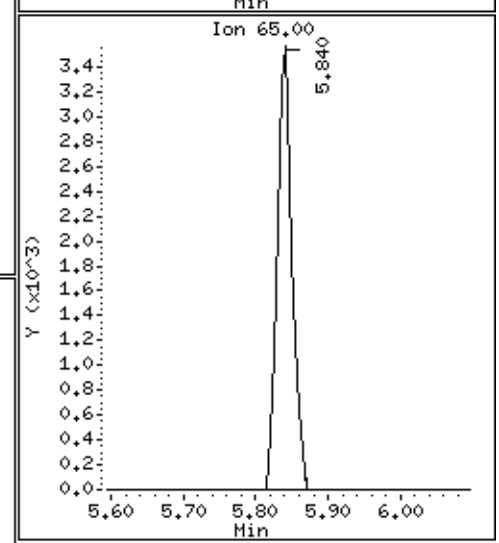
53 2-Chloroethyl vinyl ether

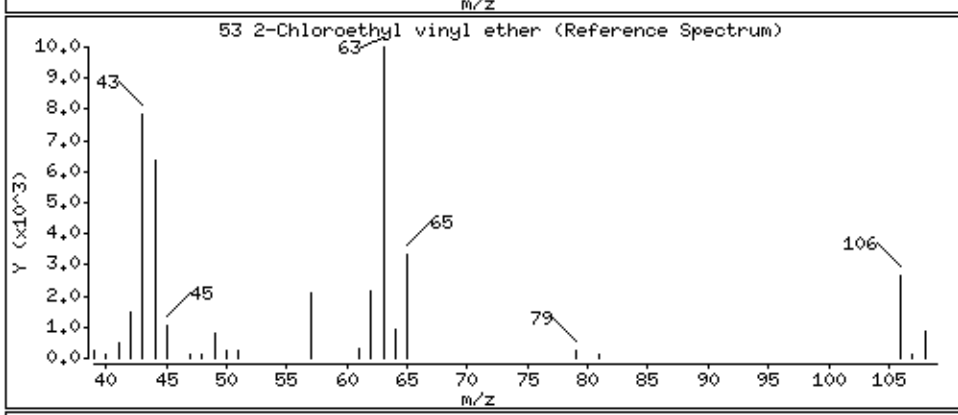
Concentration: 49.5 ppb

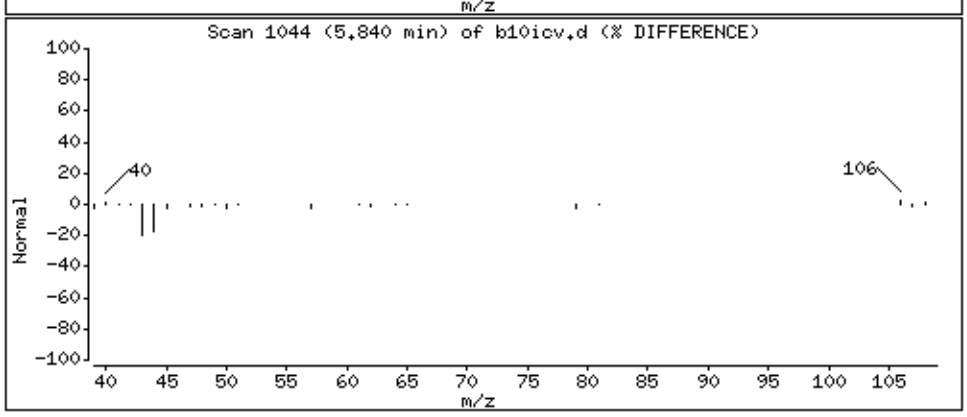












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

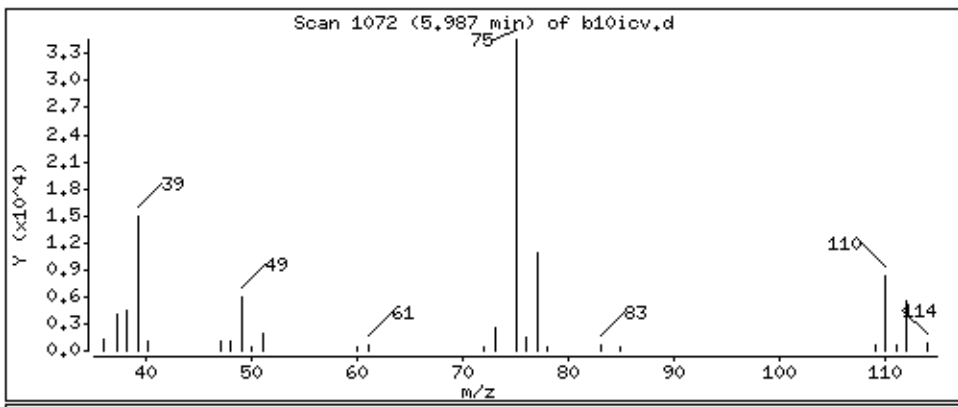
Operator: TMW

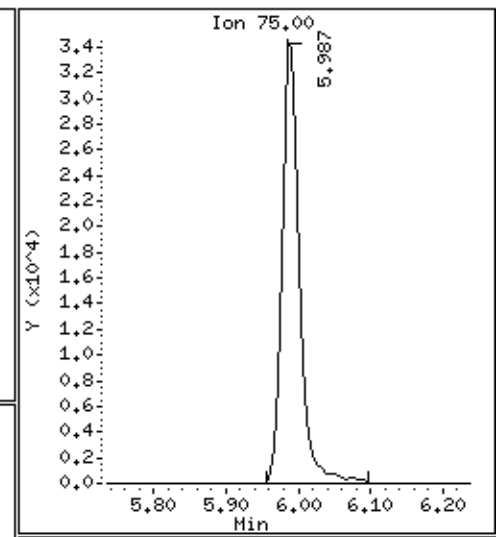
Column phase: DB-624

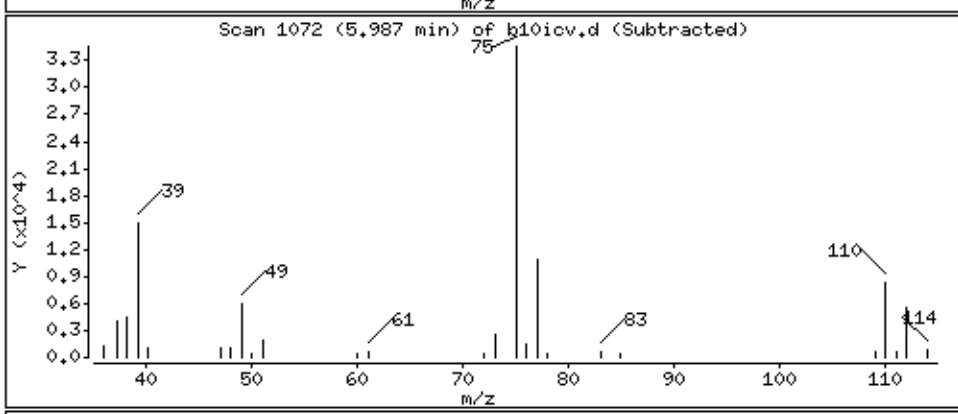
Column diameter: 0.18

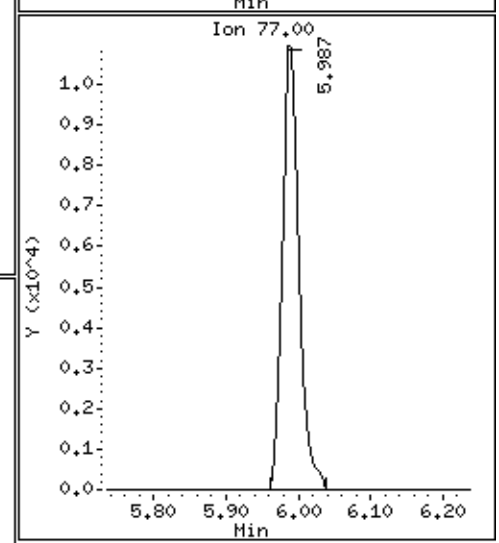
54 cis-1,3-Dichloropropene

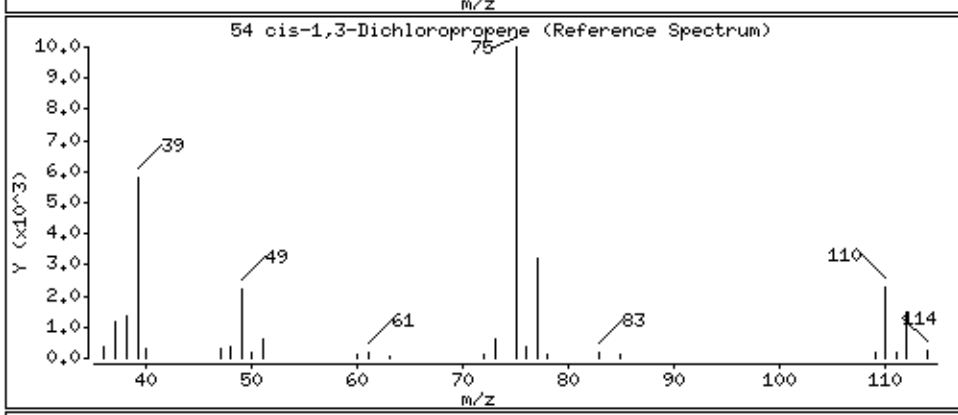
Concentration: 51.9 ppb

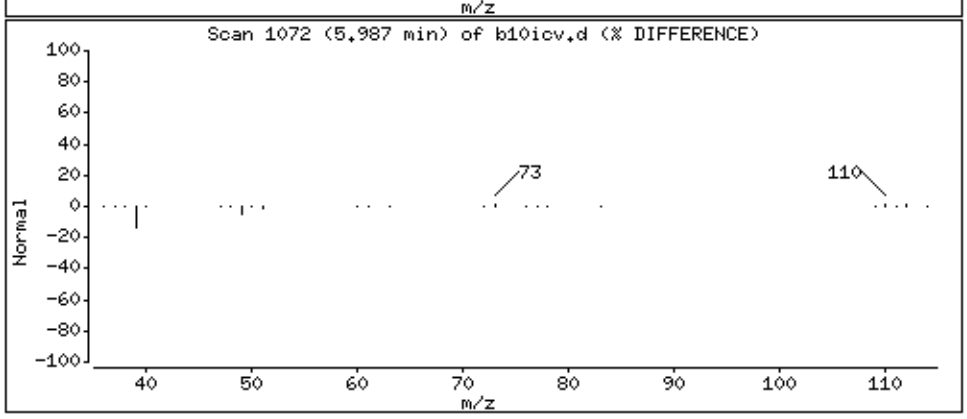












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

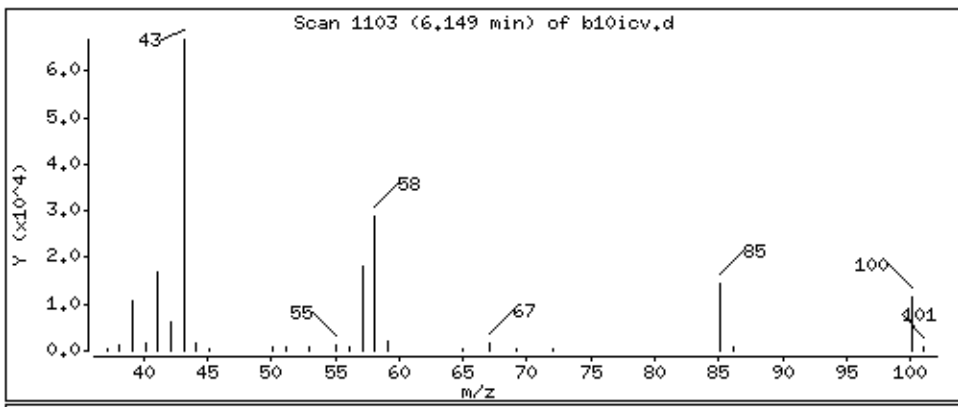
Operator: TMW

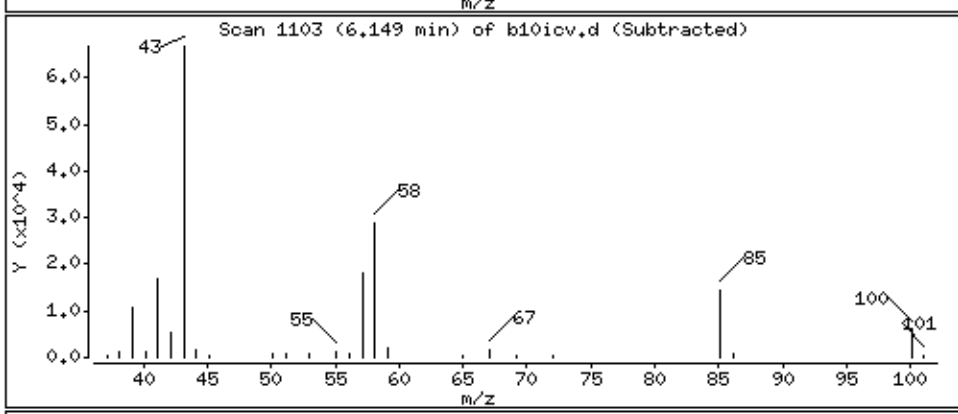
Column phase: DB-624

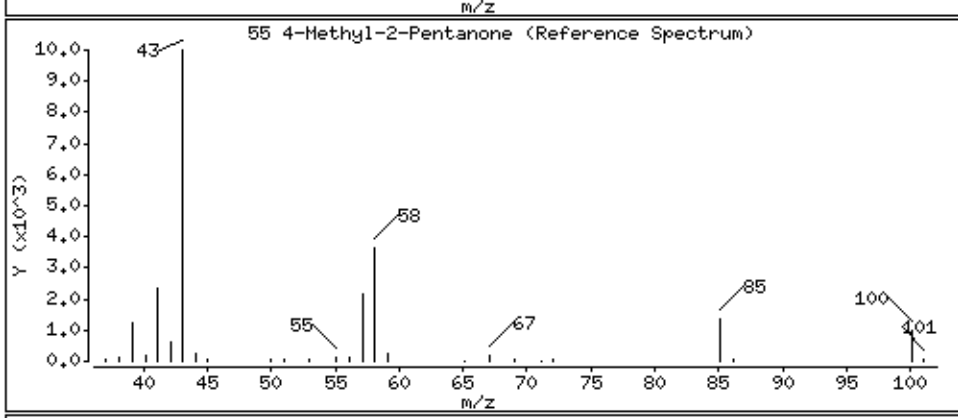
Column diameter: 0.18

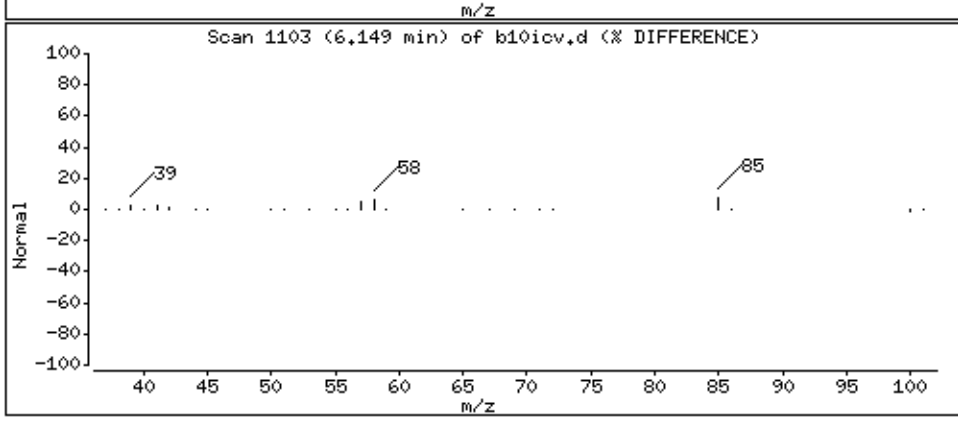
55 4-Methyl-2-Pentanone

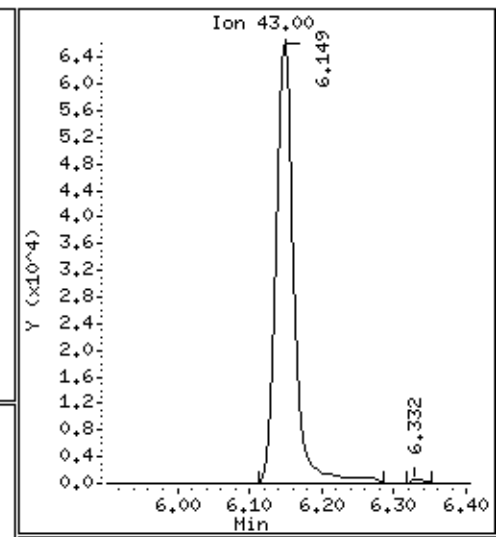
Concentration: 244 ppb

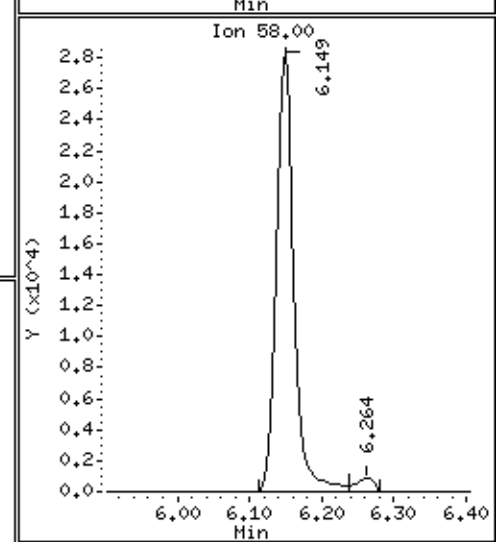


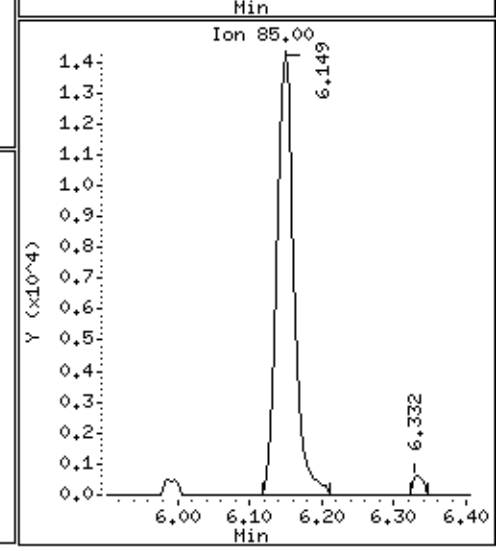












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

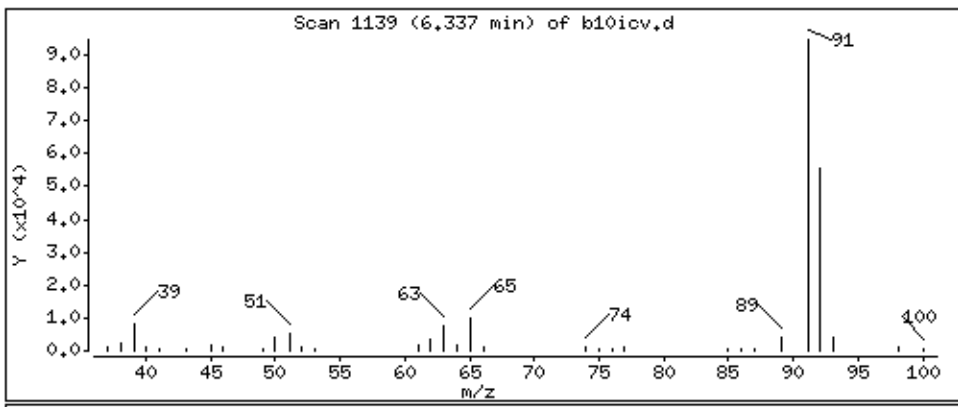
Operator: TMW

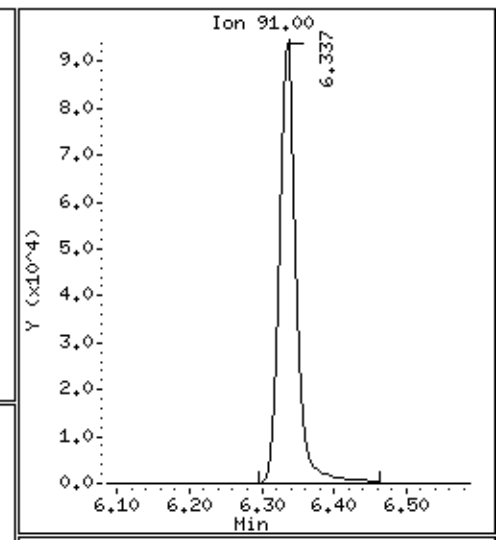
Column phase: DB-624

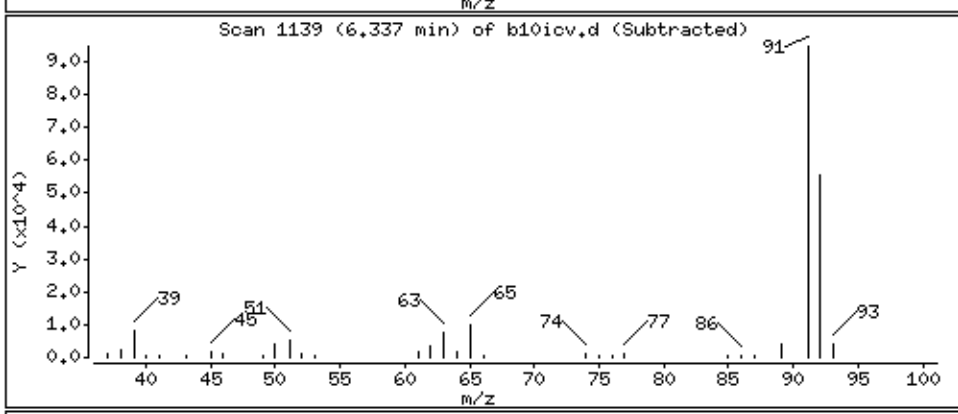
Column diameter: 0.18

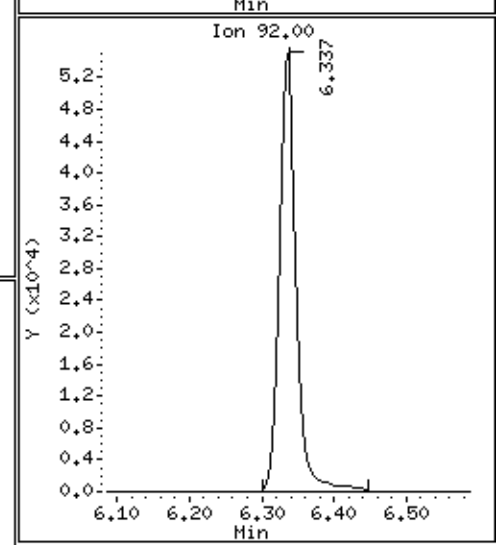
57 Toluene

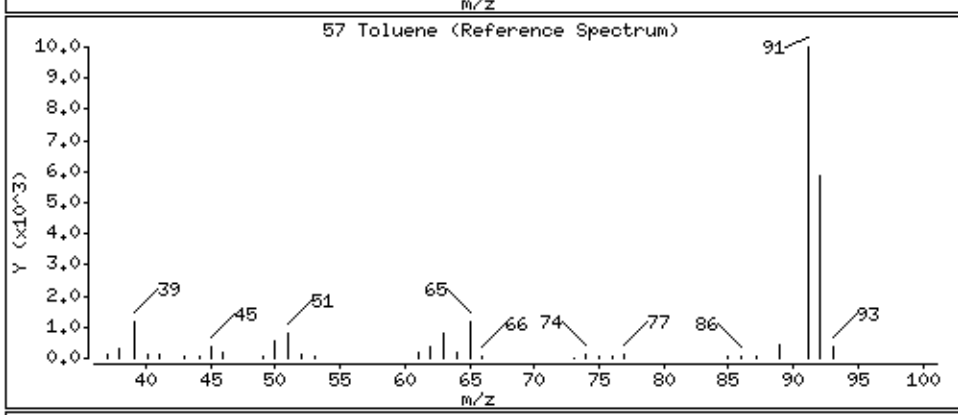
Concentration: 49.8 ppb

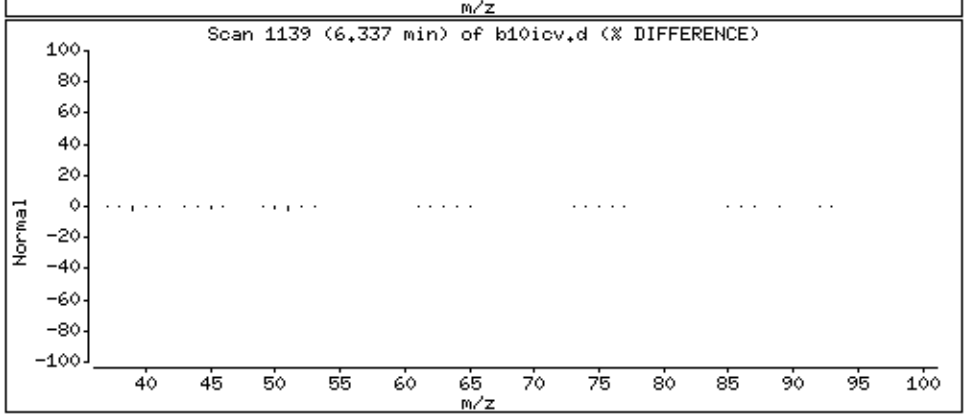












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

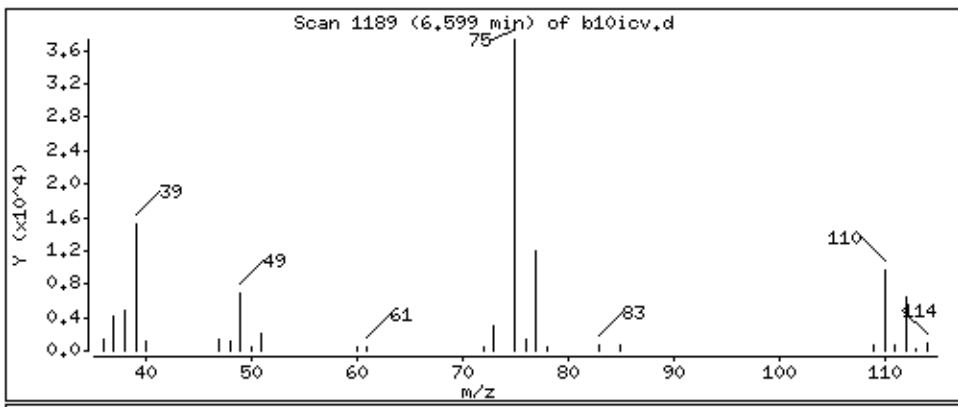
Operator: TMW

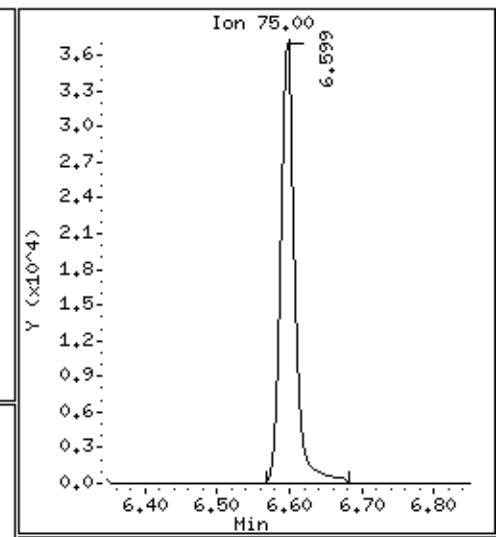
Column phase: DB-624

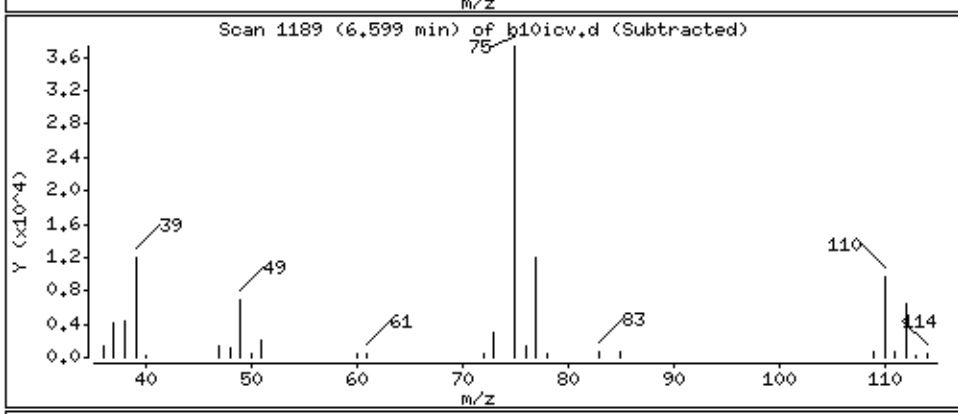
Column diameter: 0.18

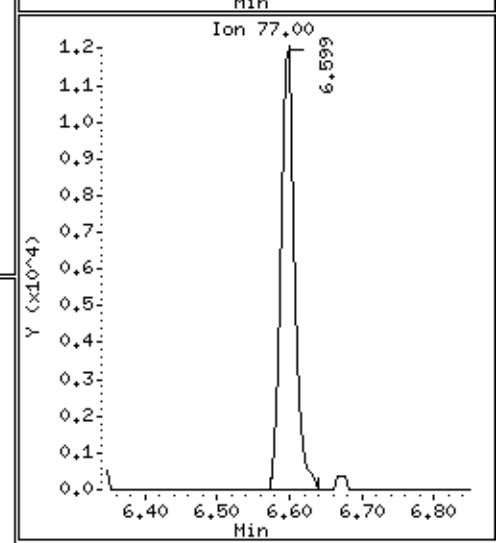
58 trans-1,3-Dichloropropene

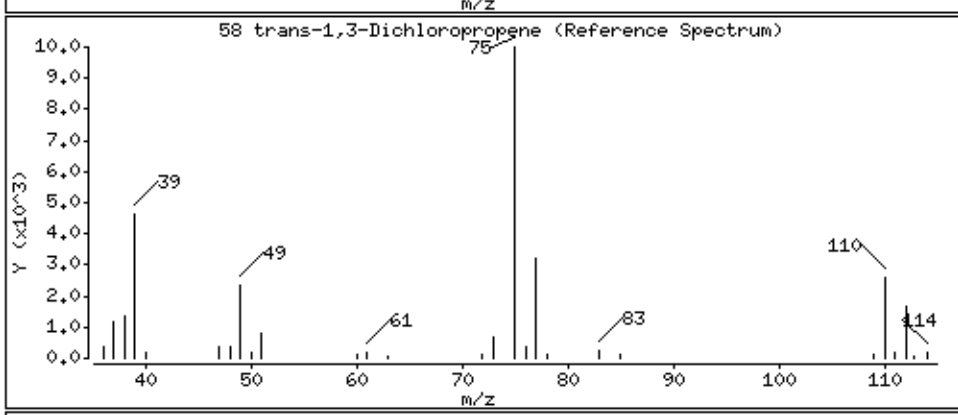
Concentration: 52.2 ppb

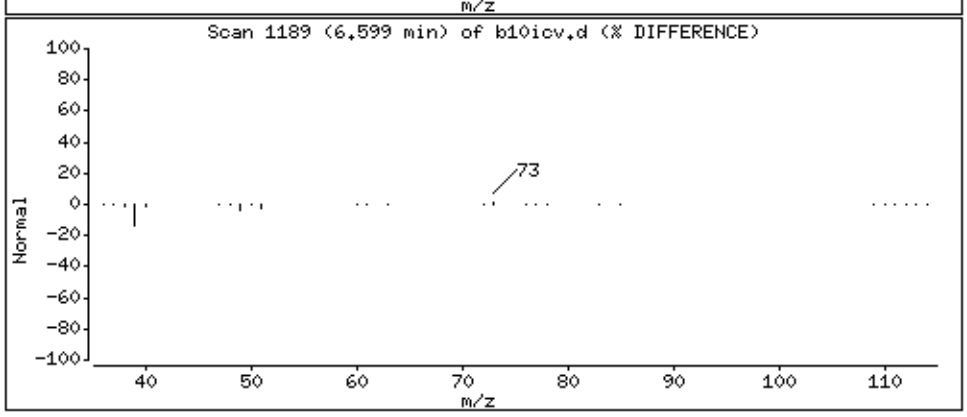












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

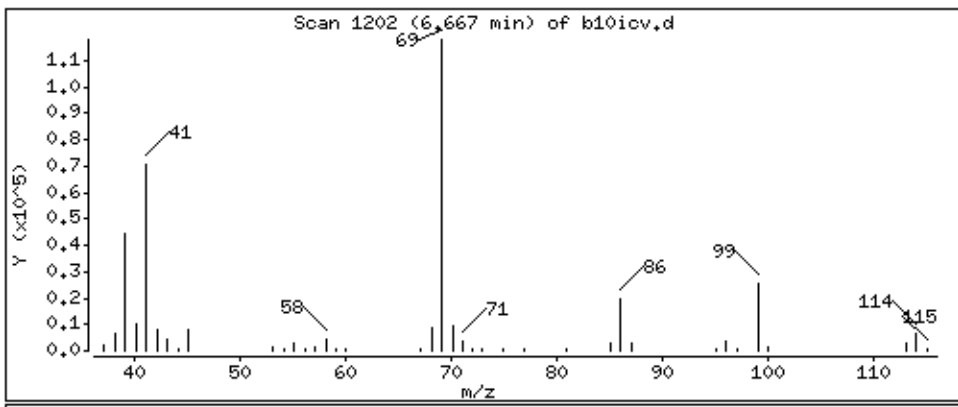
Operator: TMW

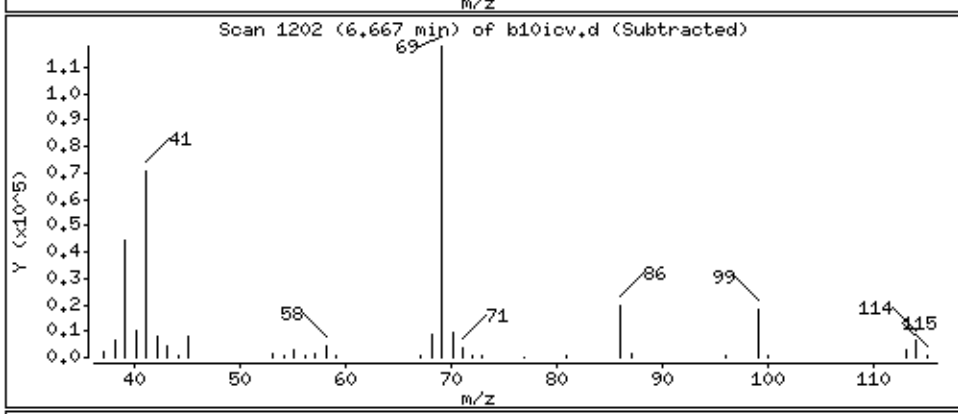
Column phase: DB-624

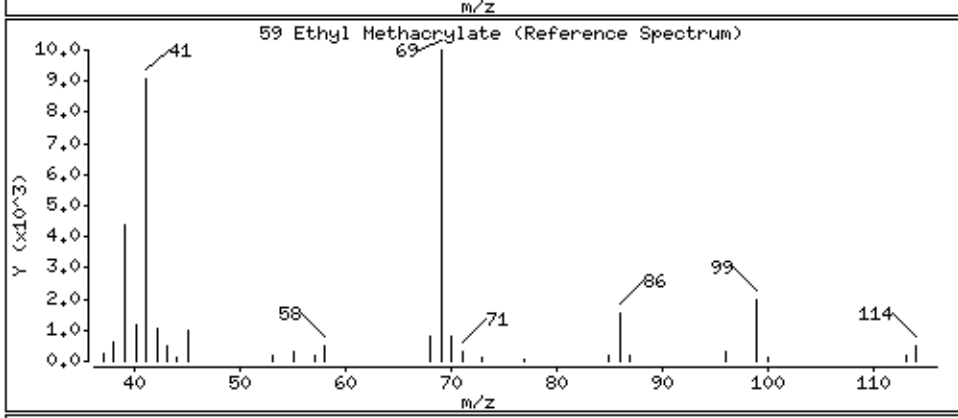
Column diameter: 0.18

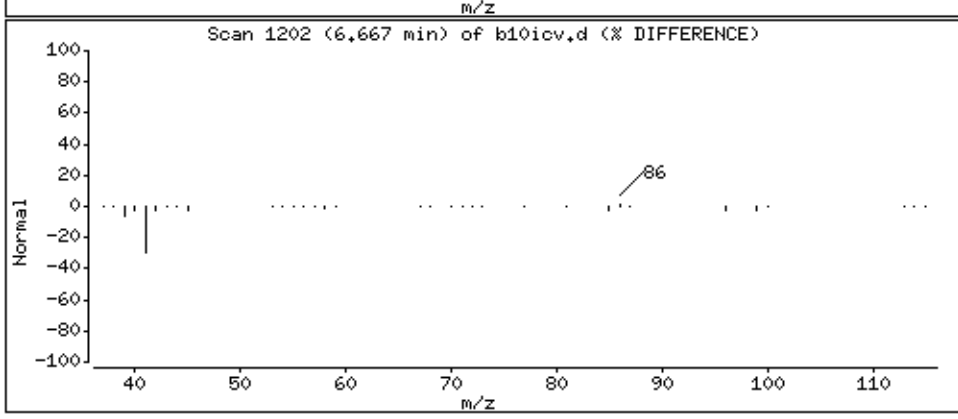
59 Ethyl Methacrylate

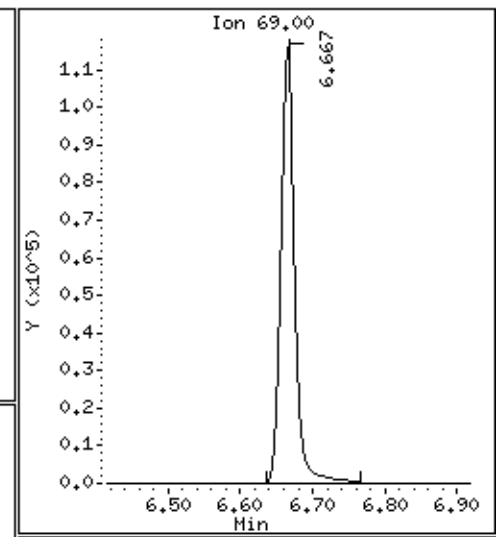
Concentration: 210 ppb

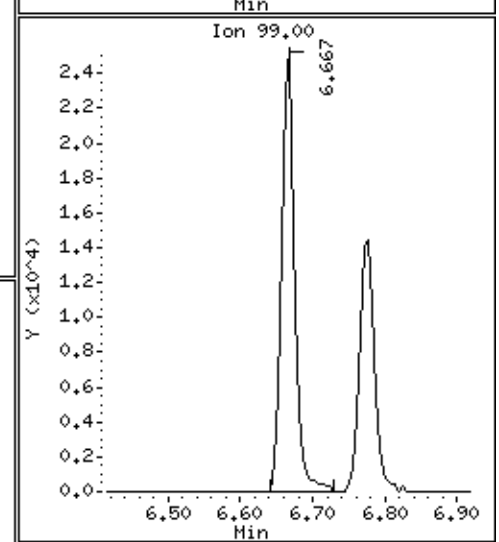


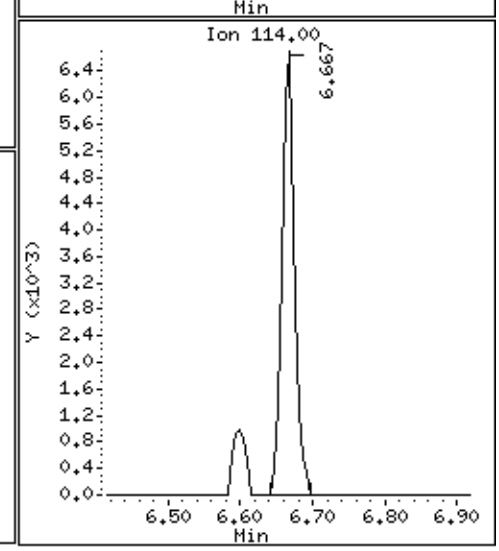












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

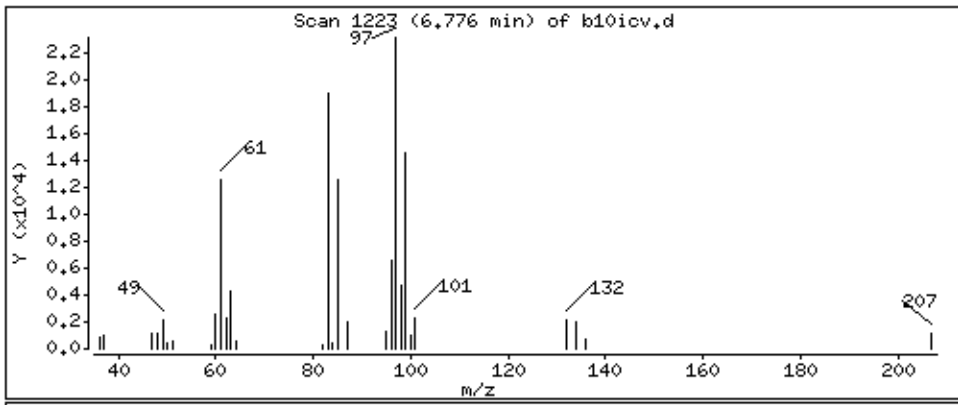
Operator: TMW

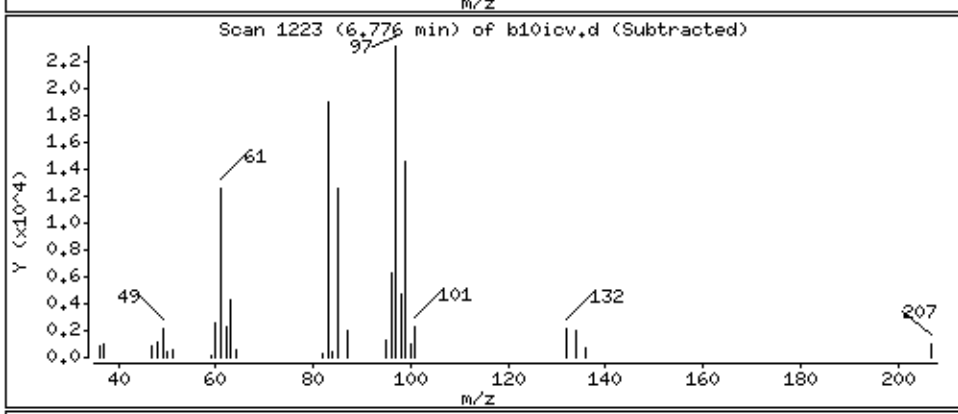
Column phase: DB-624

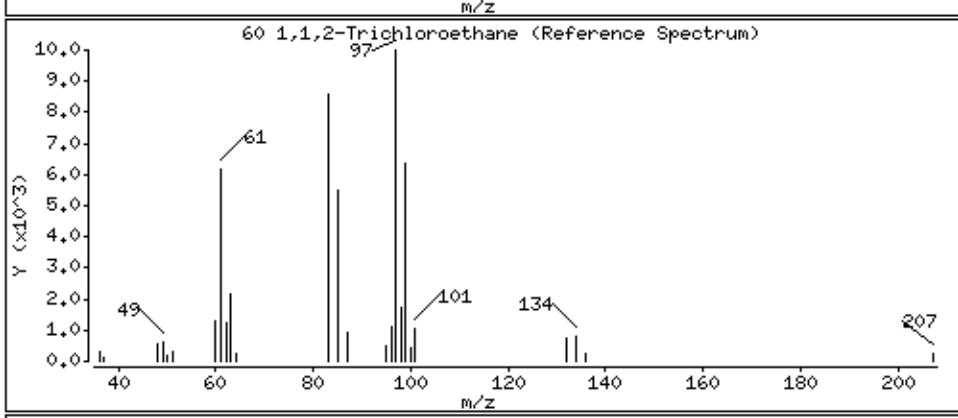
Column diameter: 0.18

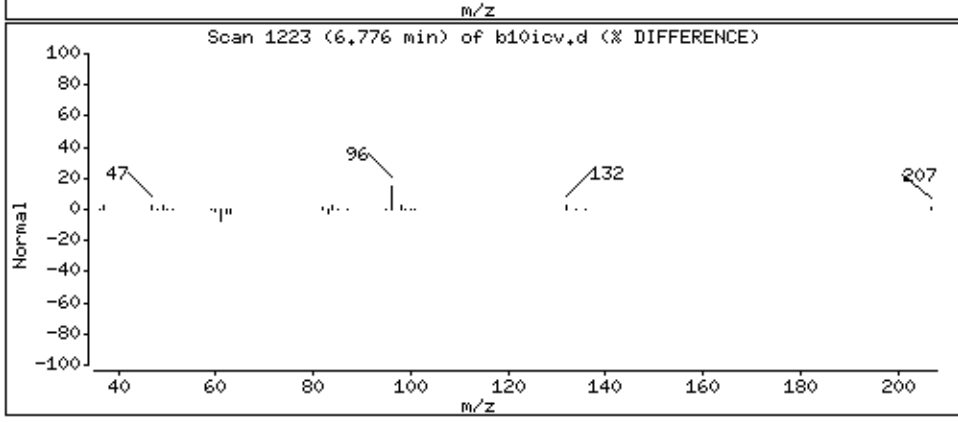
60 1,1,2-Trichloroethane

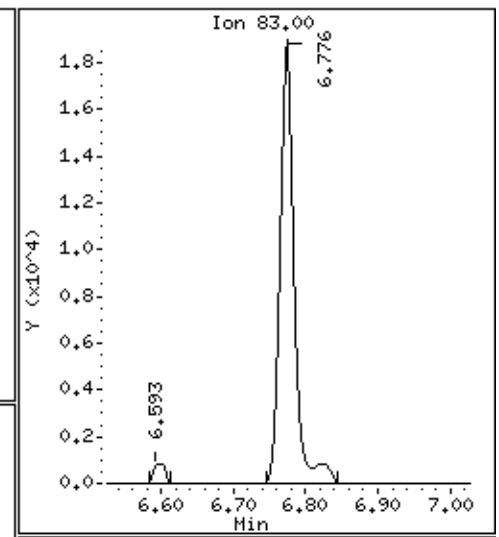
Concentration: 53.3 ppb

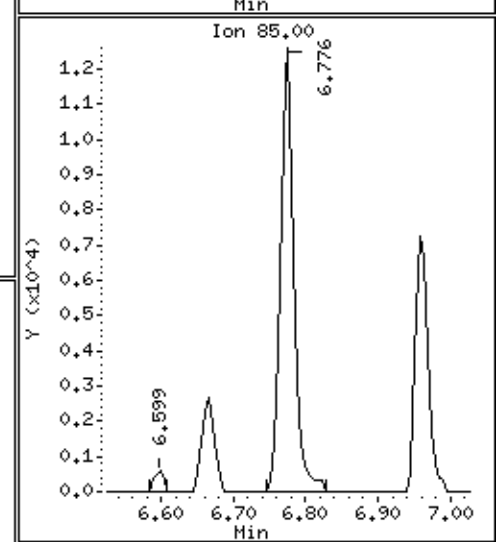


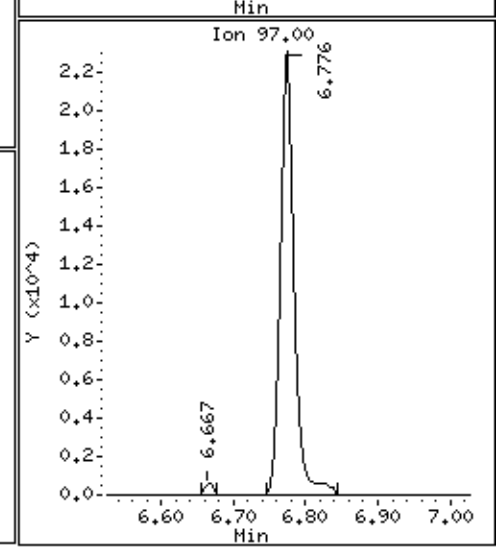












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

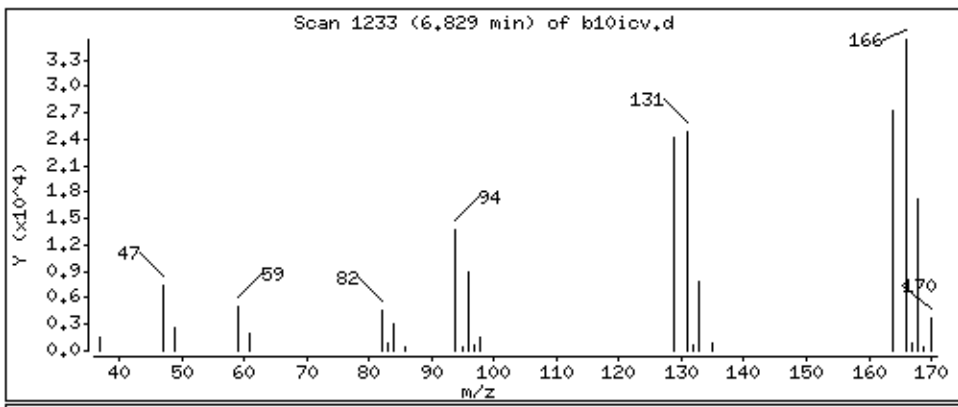
Operator: TMW

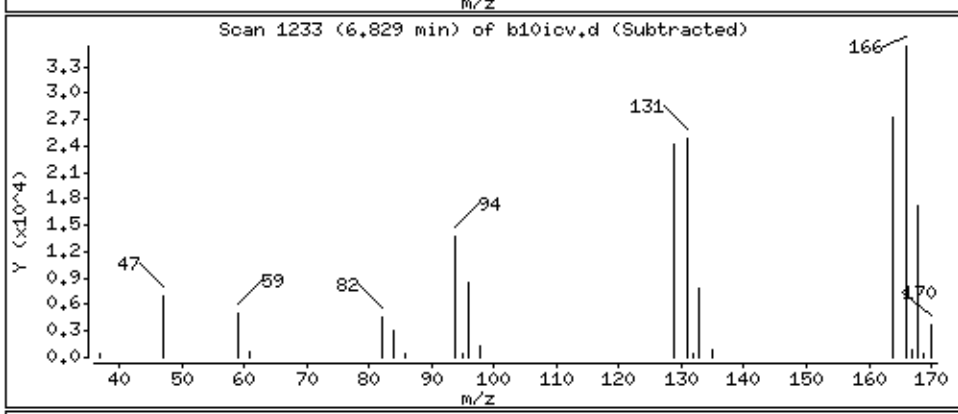
Column phase: DB-624

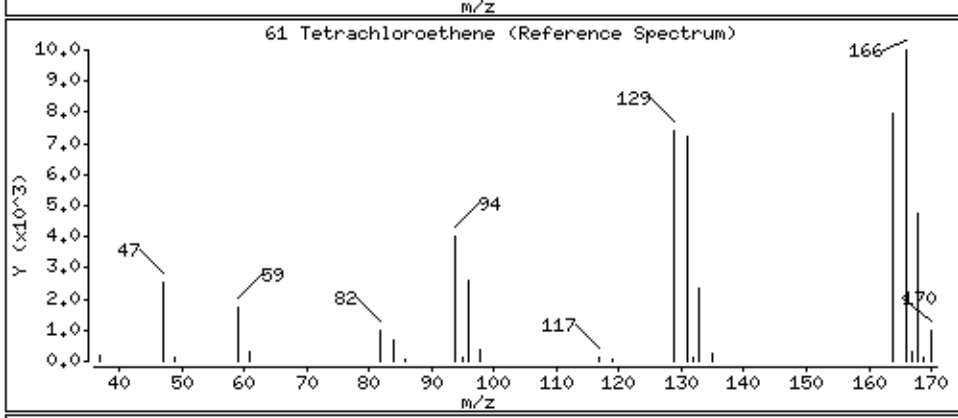
Column diameter: 0.18

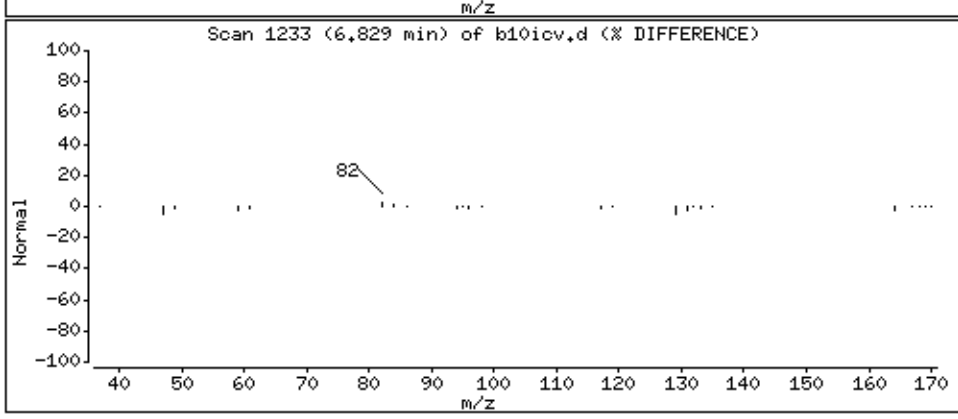
61 Tetrachloroethene

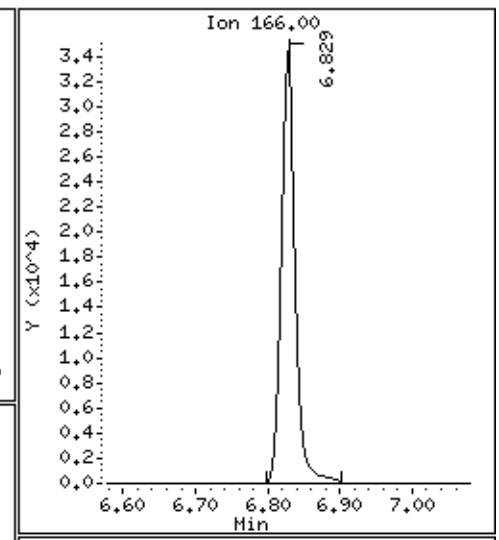
Concentration: 50.7 ppb

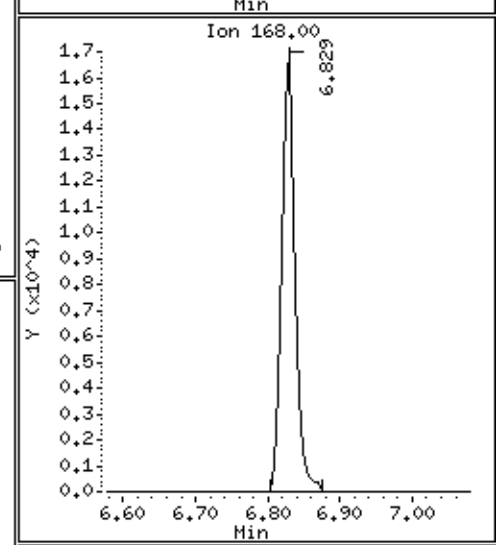


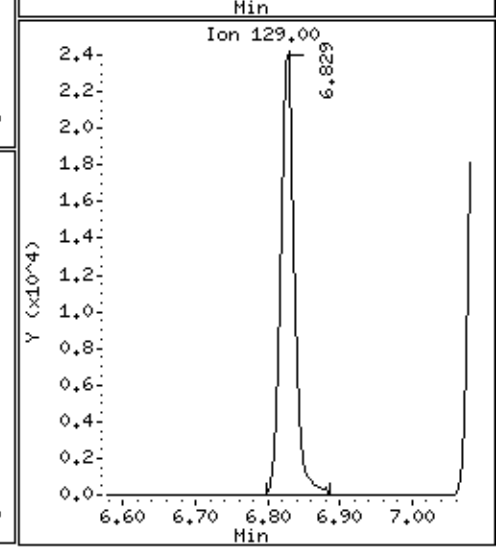












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

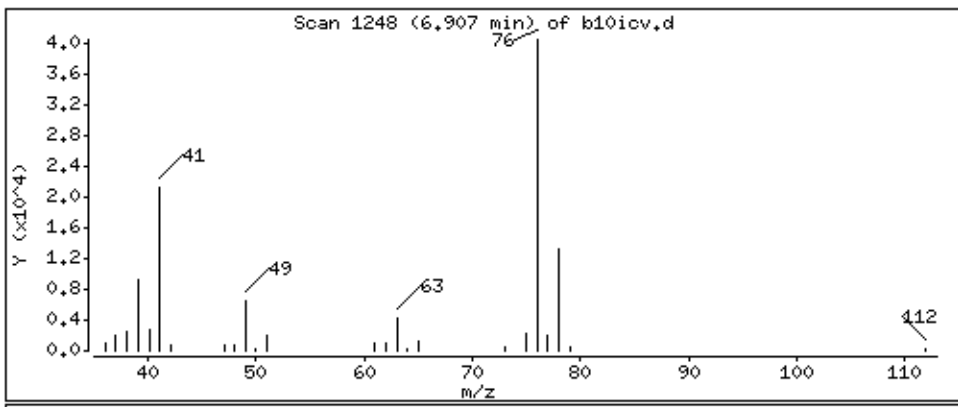
Operator: TMW

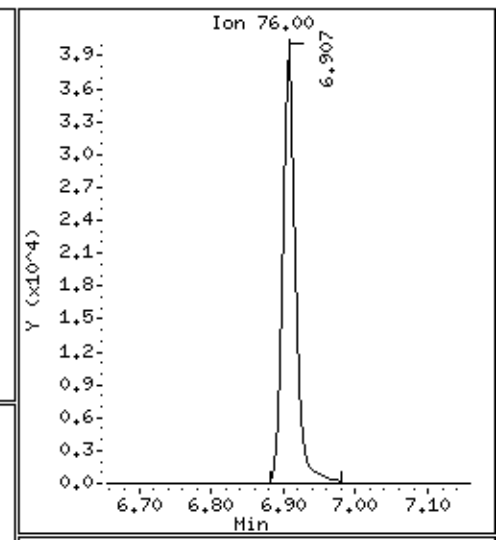
Column phase: DB-624

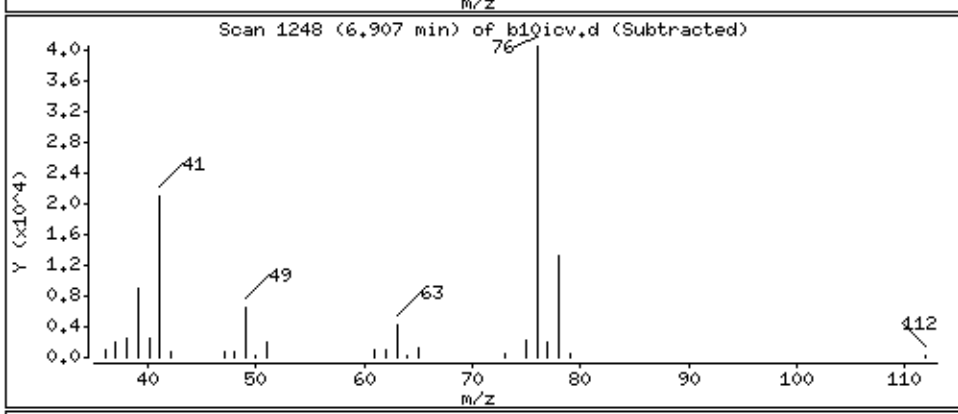
Column diameter: 0.18

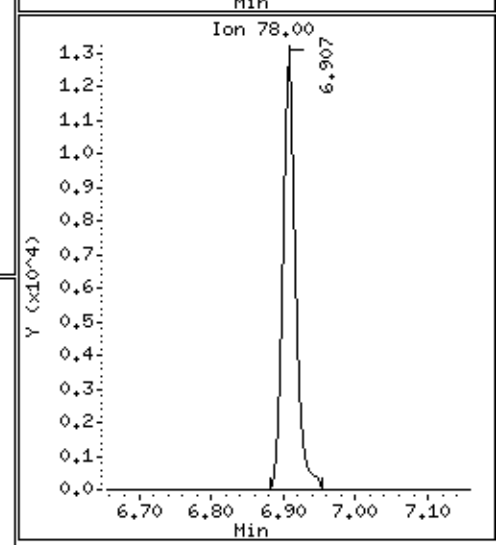
62 1,3-Dichloropropane

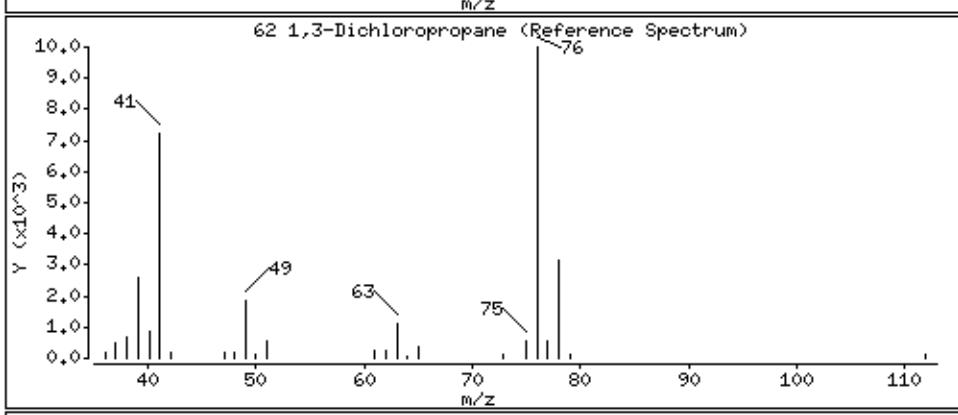
Concentration: 52.0 ppb

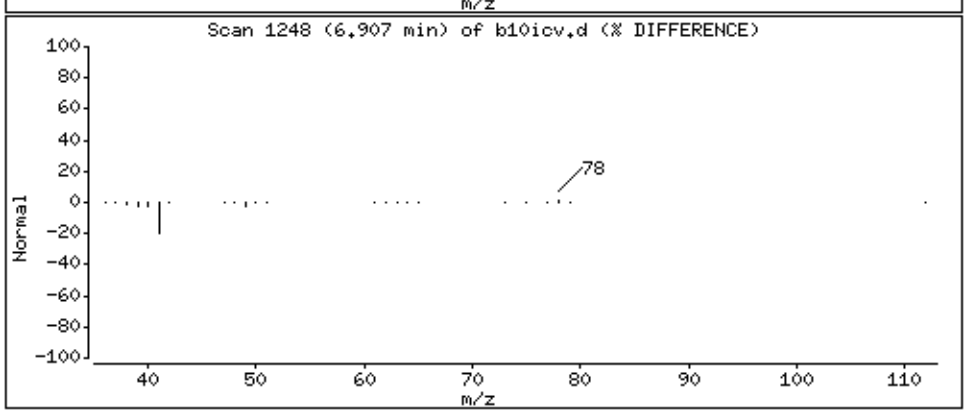












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

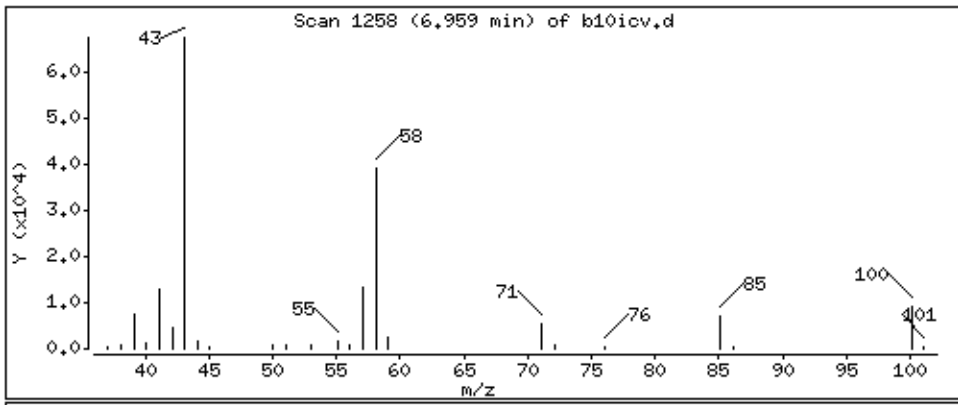
Operator: TMW

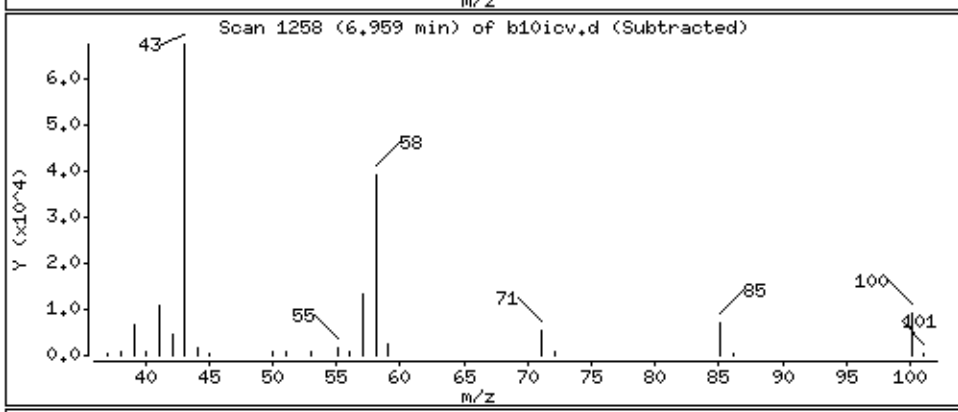
Column phase: DB-624

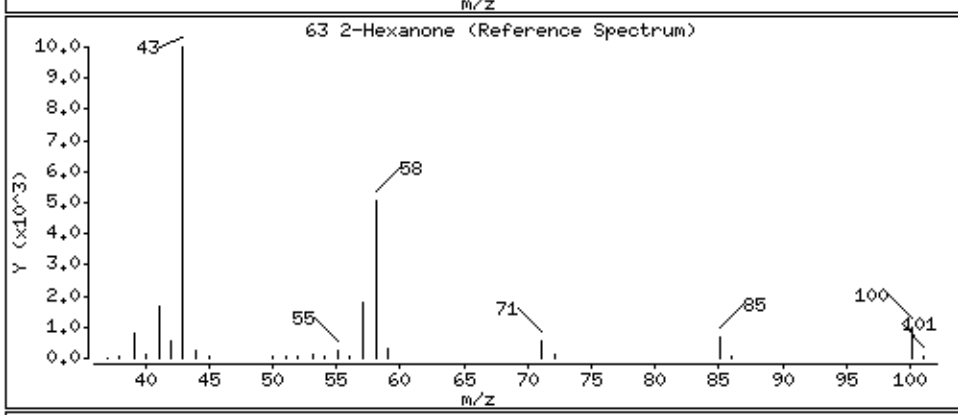
Column diameter: 0.18

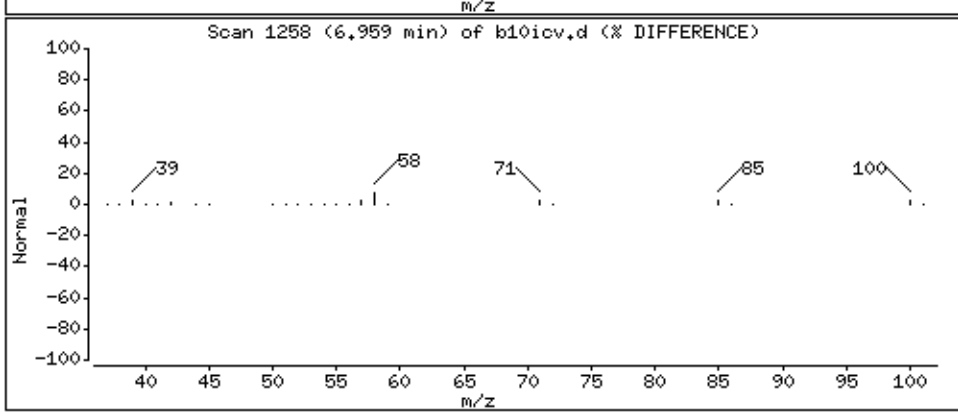
63 2-Hexanone

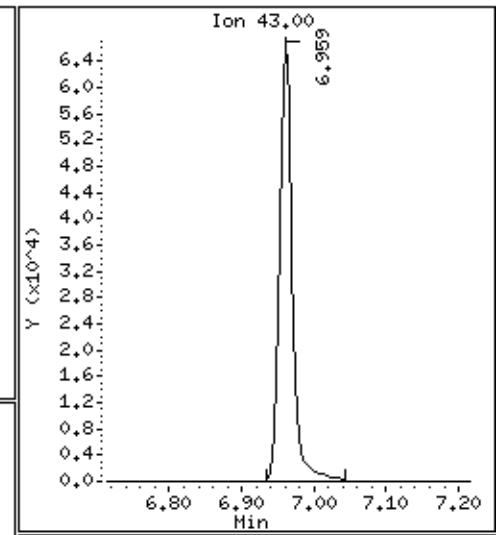
Concentration: 246 ppb

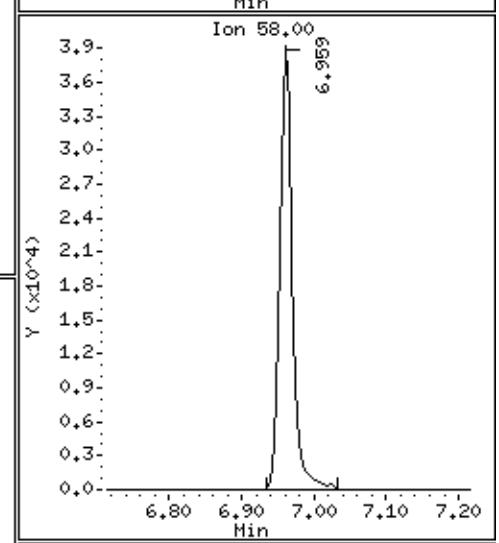


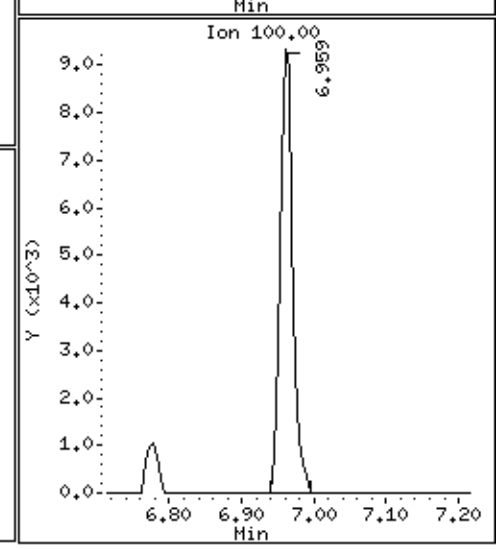












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

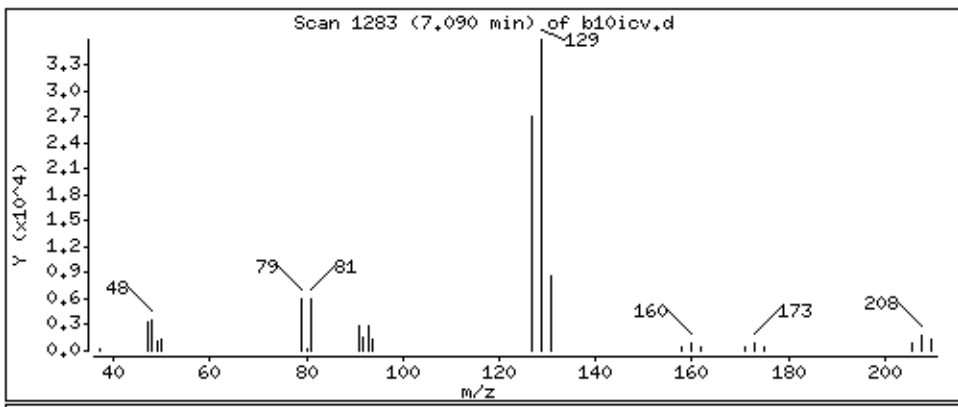
Operator: TMW

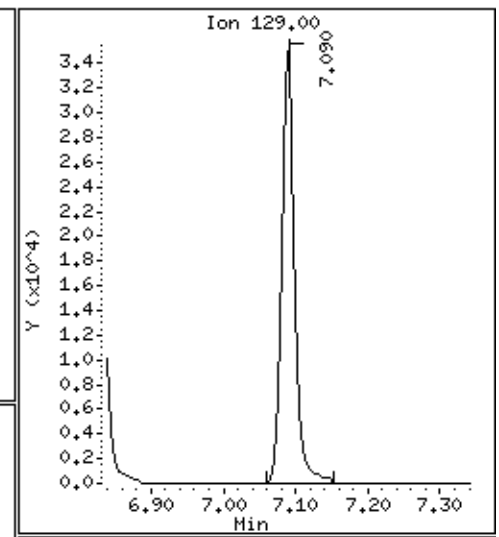
Column phase: DB-624

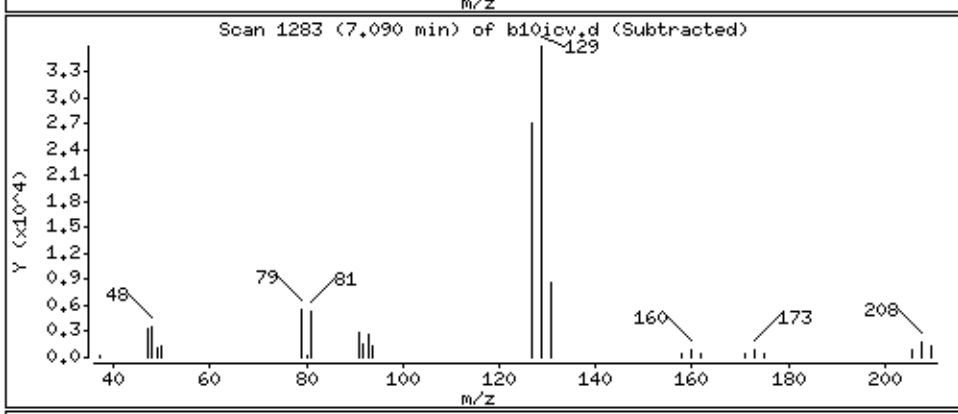
Column diameter: 0.18

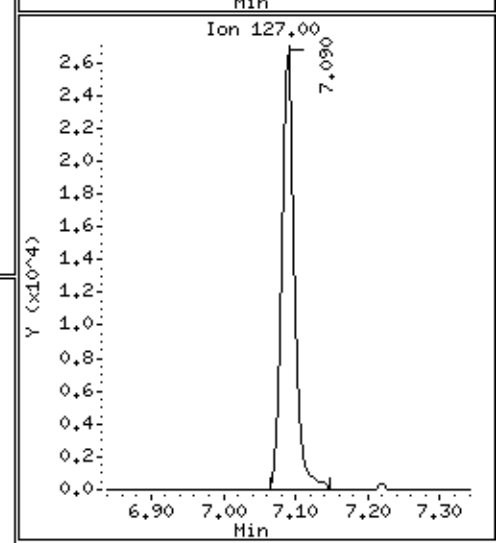
64 Dibromochloromethane

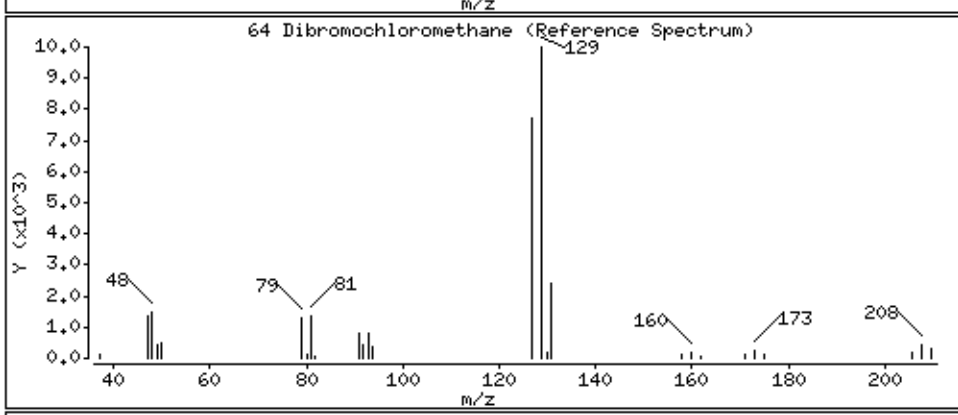
Concentration: 50.0 ppb

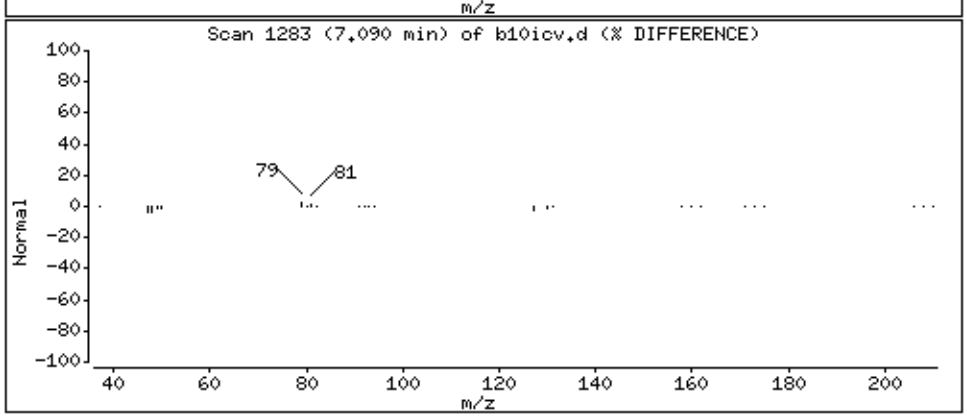












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

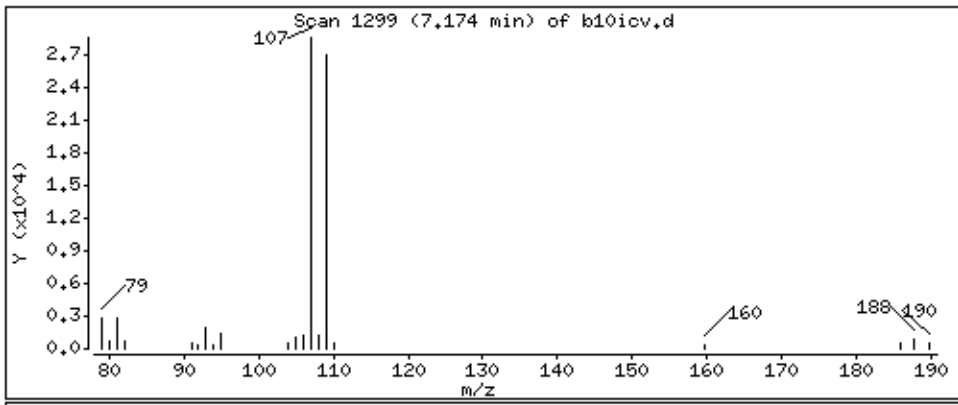
Operator: TMW

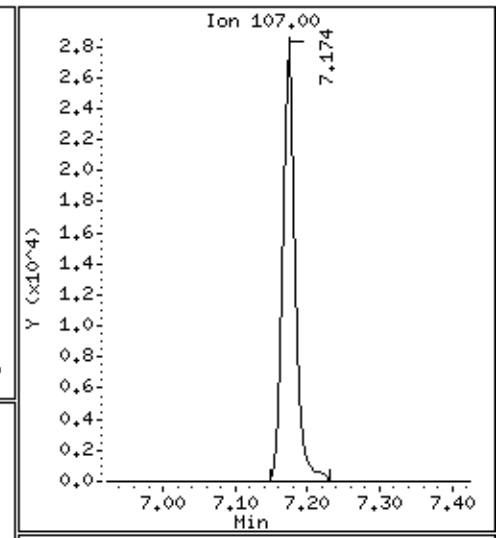
Column phase: DB-624

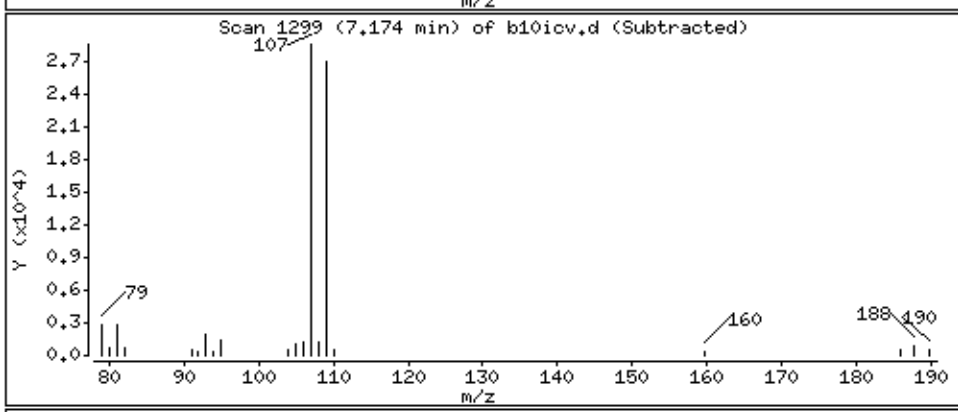
Column diameter: 0.18

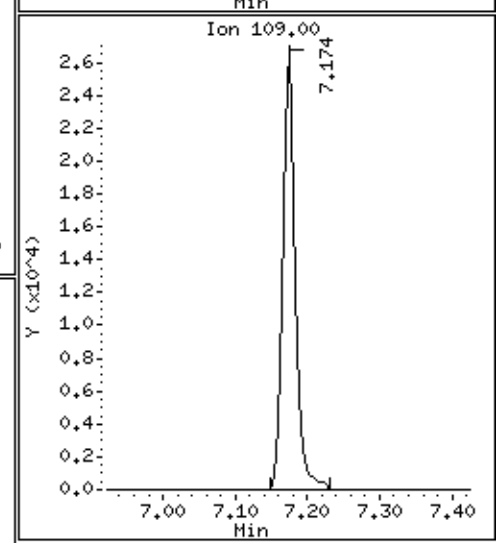
65 1,2-Dibromoethane

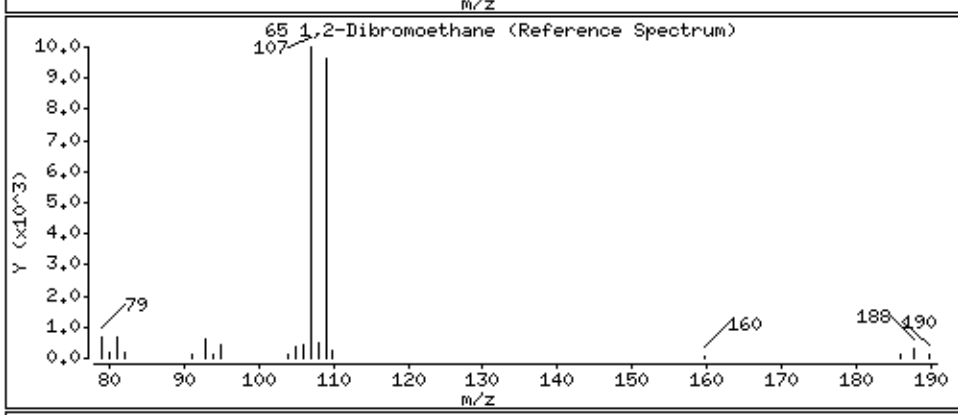
Concentration: 51.7 ppb

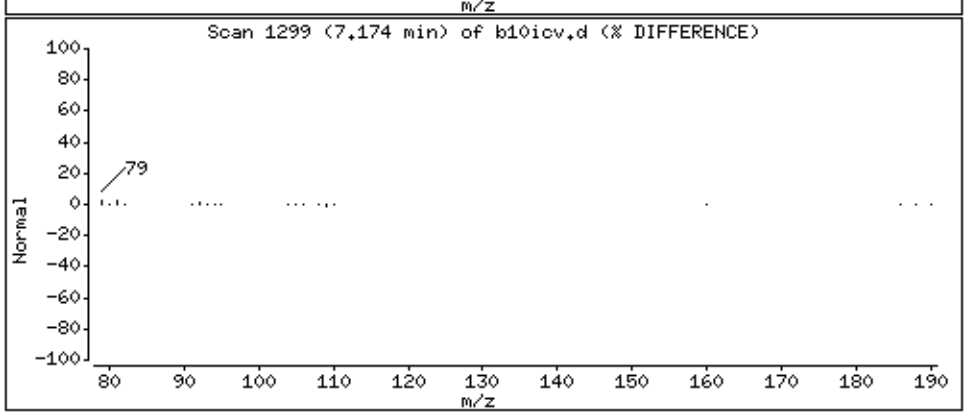












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

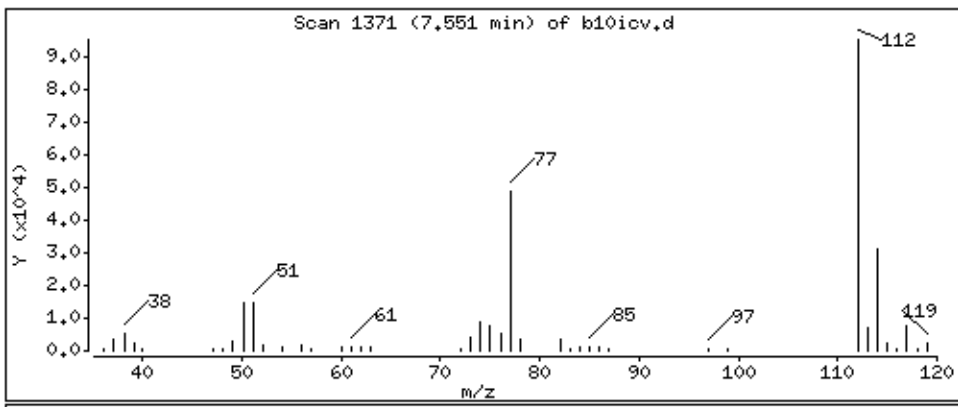
Operator: TMW

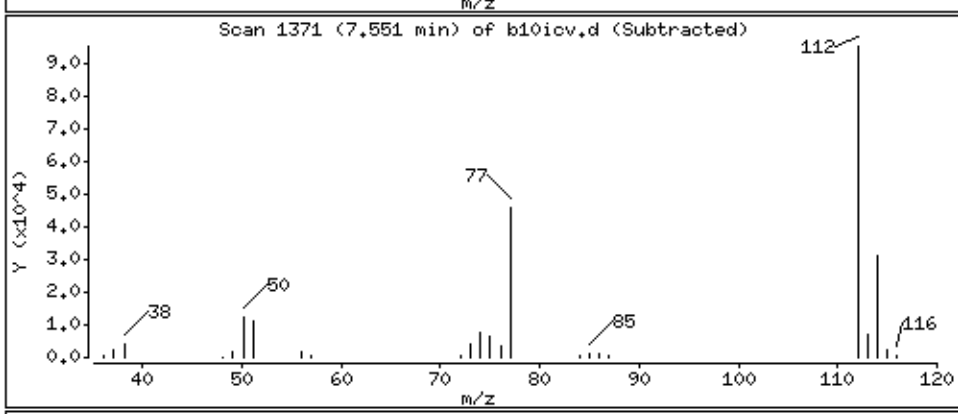
Column phase: DB-624

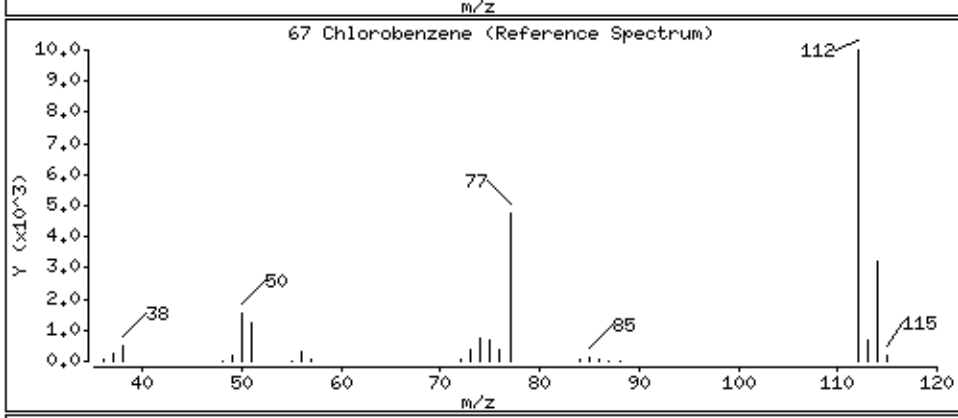
Column diameter: 0.18

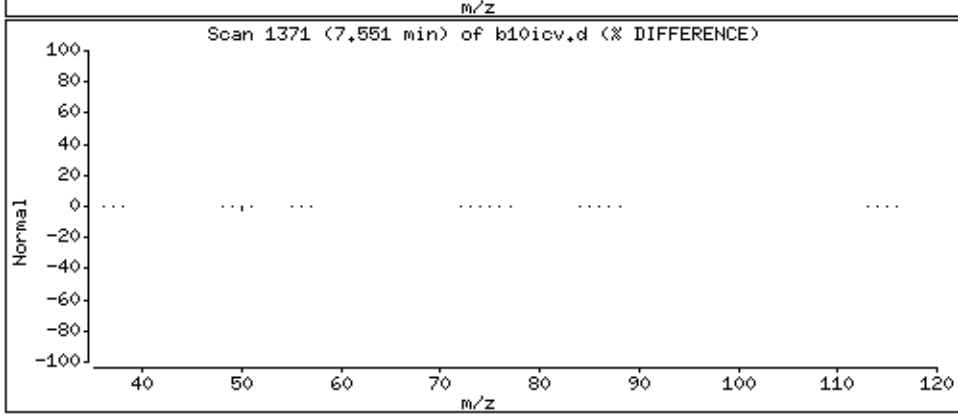
67 Chlorobenzene

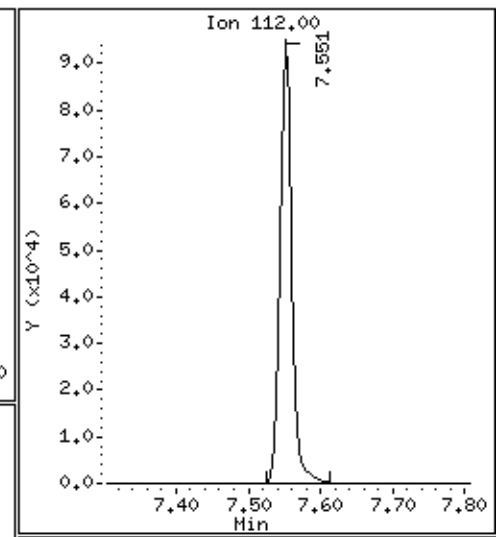
Concentration: 47.6 ppb

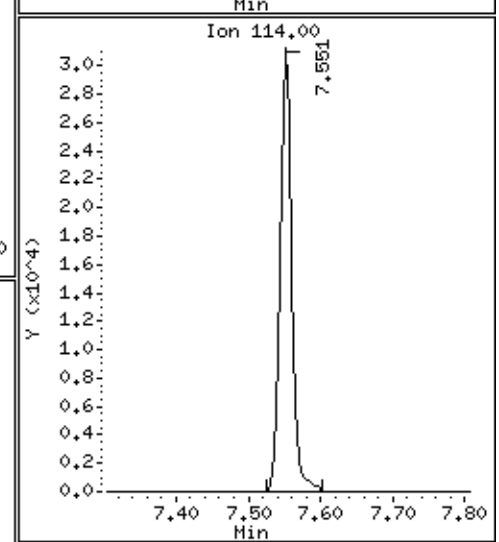


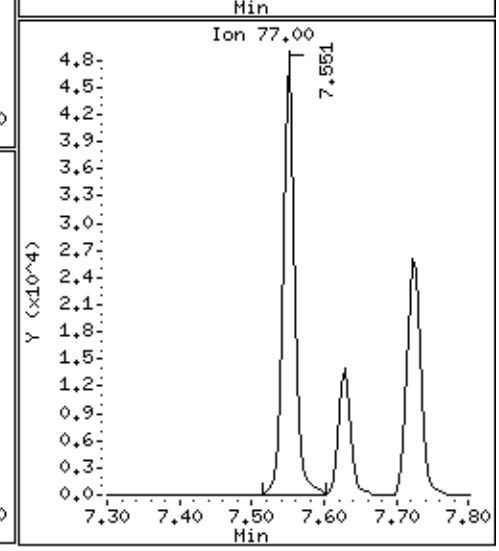












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

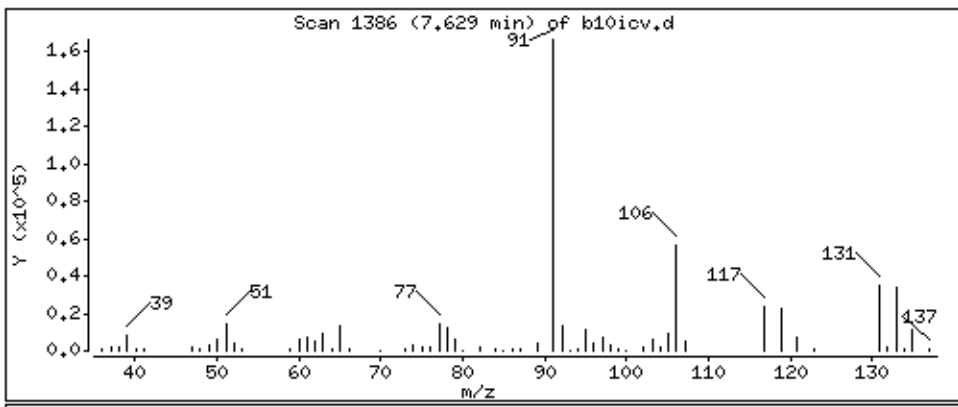
Operator: TMW

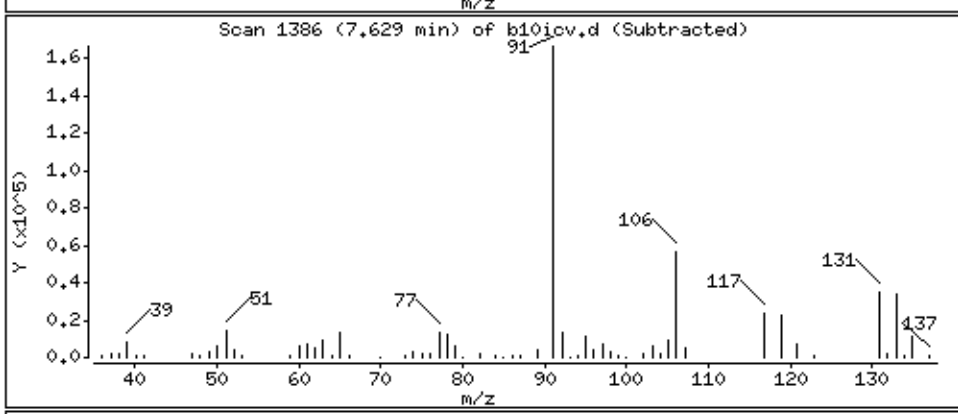
Column phase: DB-624

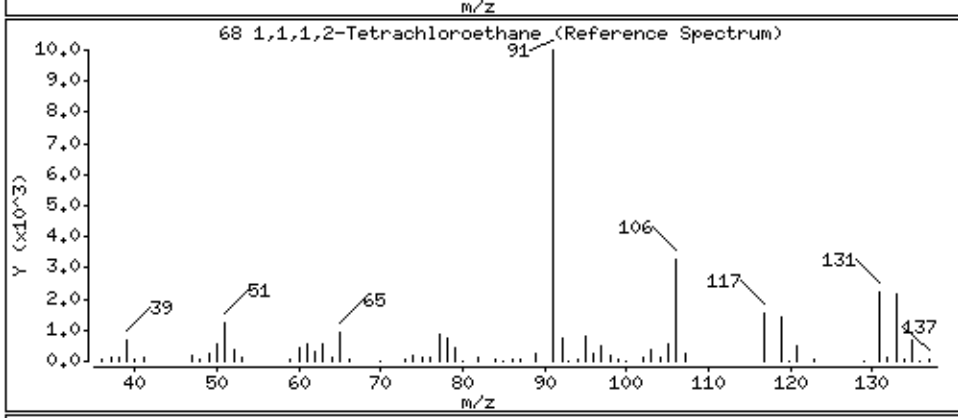
Column diameter: 0.18

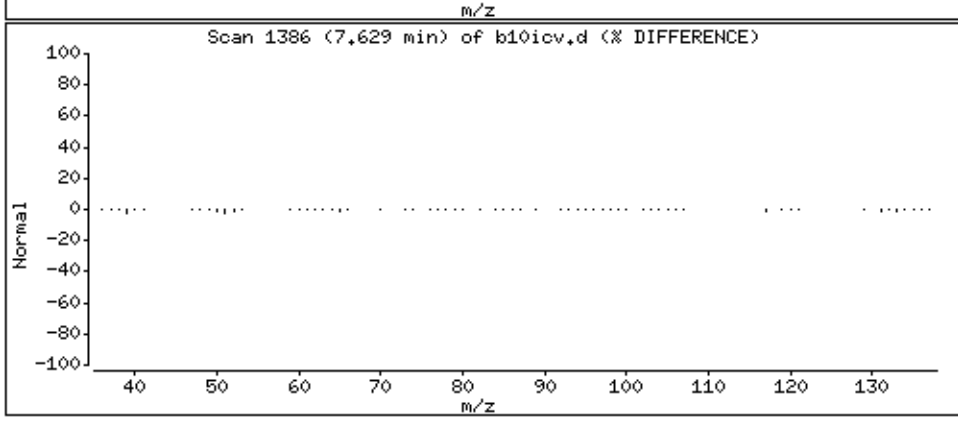
68 1,1,1,2-Tetrachloroethane

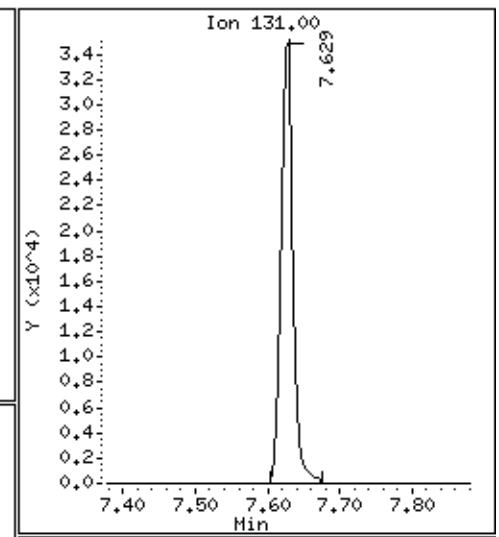
Concentration: 50.6 ppb

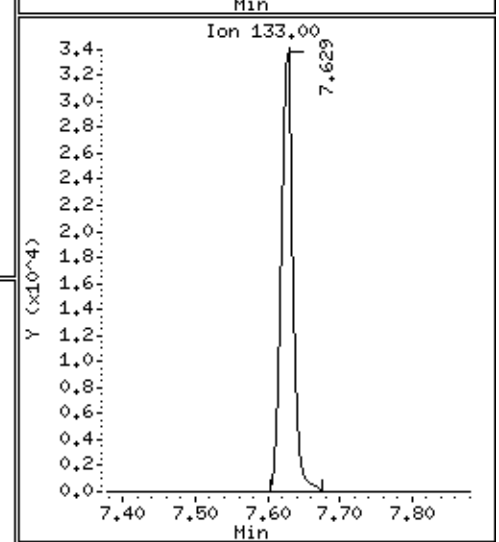


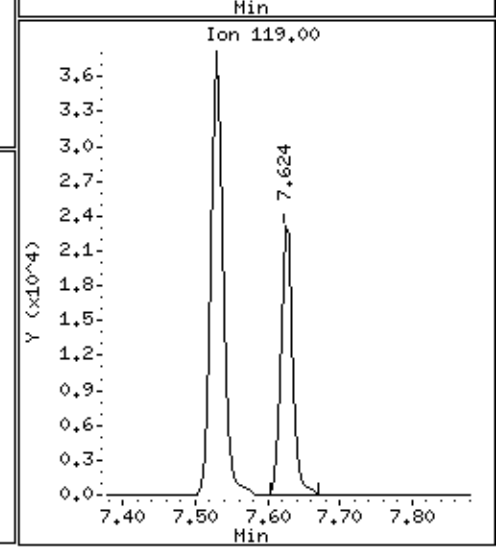












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

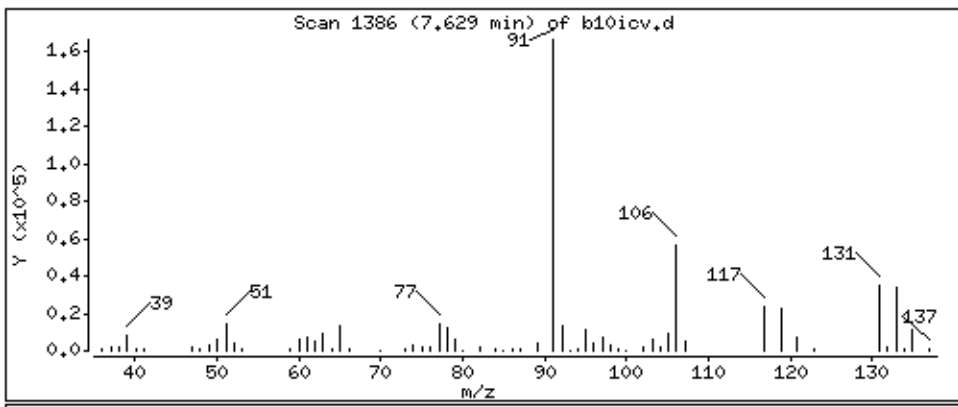
Operator: TMW

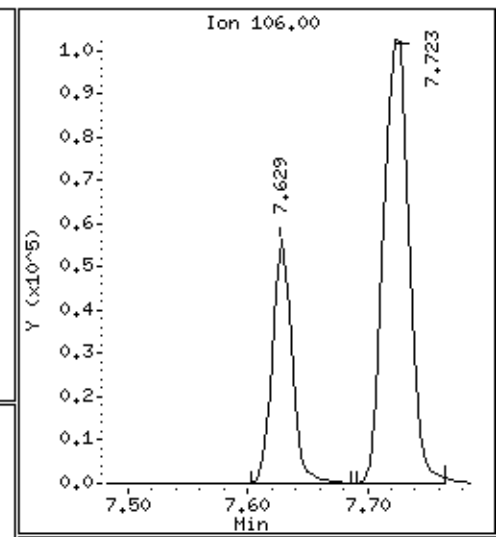
Column phase: DB-624

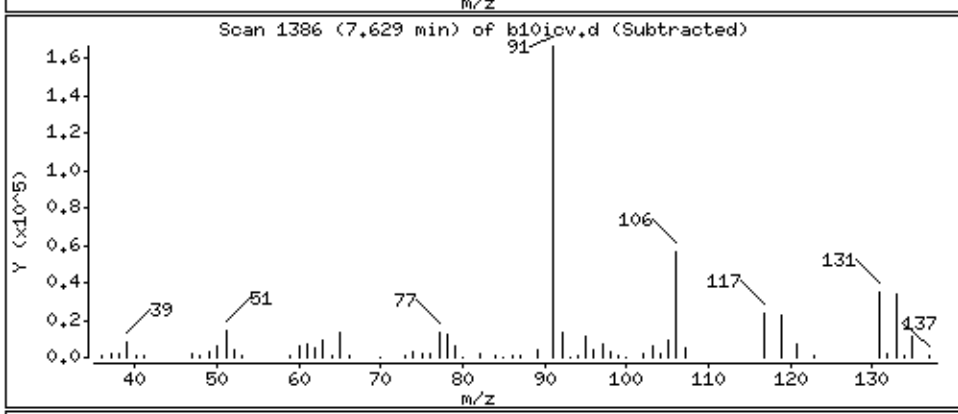
Column diameter: 0.18

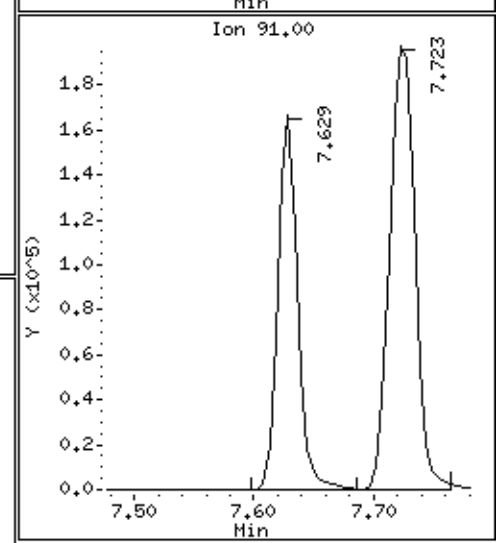
69 Ethylbenzene

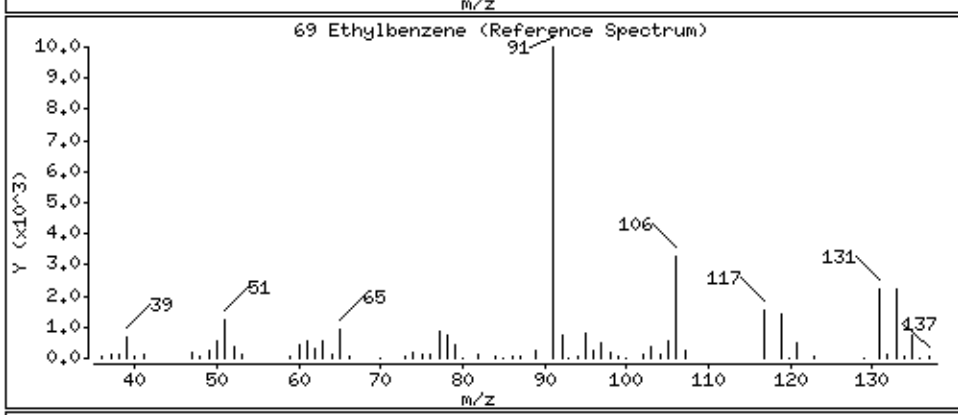
Concentration: 48.5 ppb

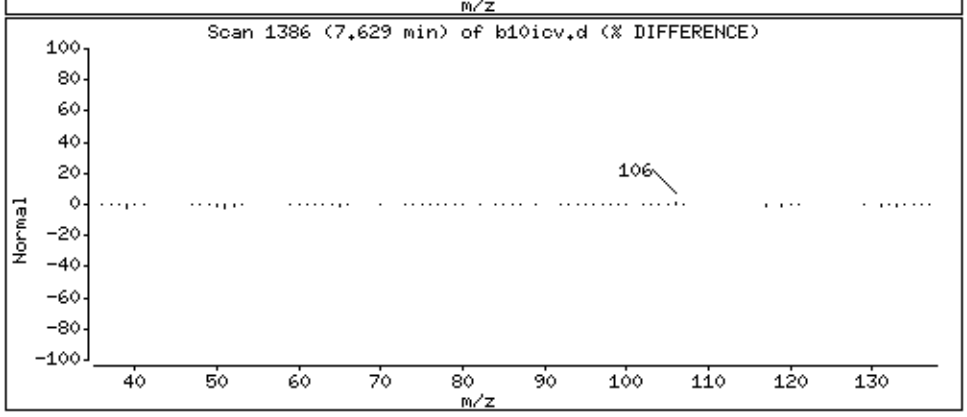












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

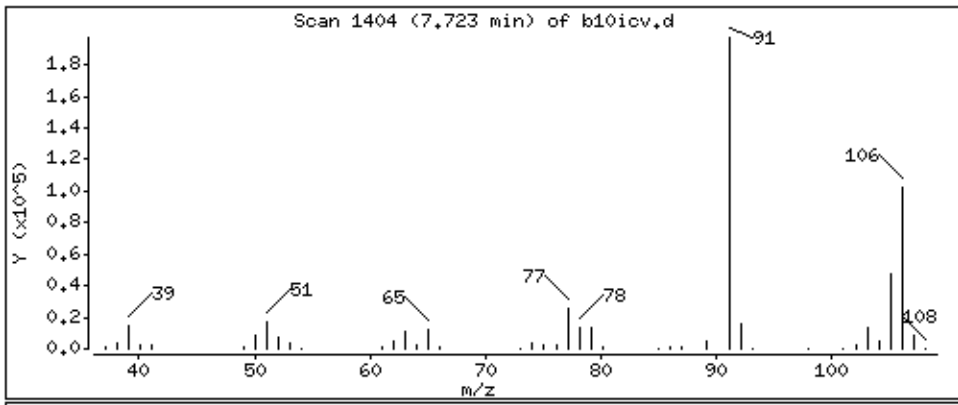
Operator: TMW

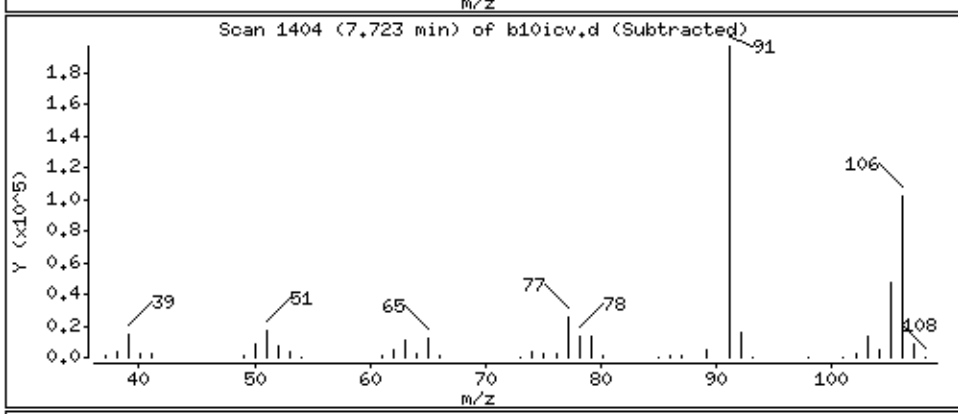
Column phase: DB-624

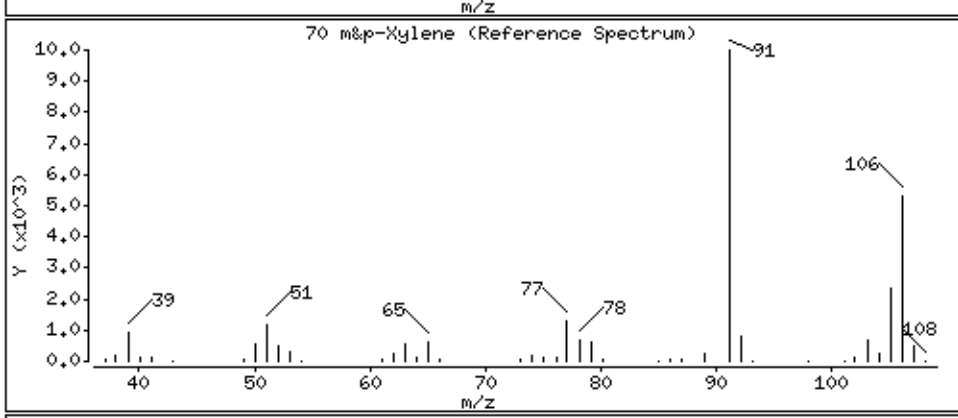
Column diameter: 0.18

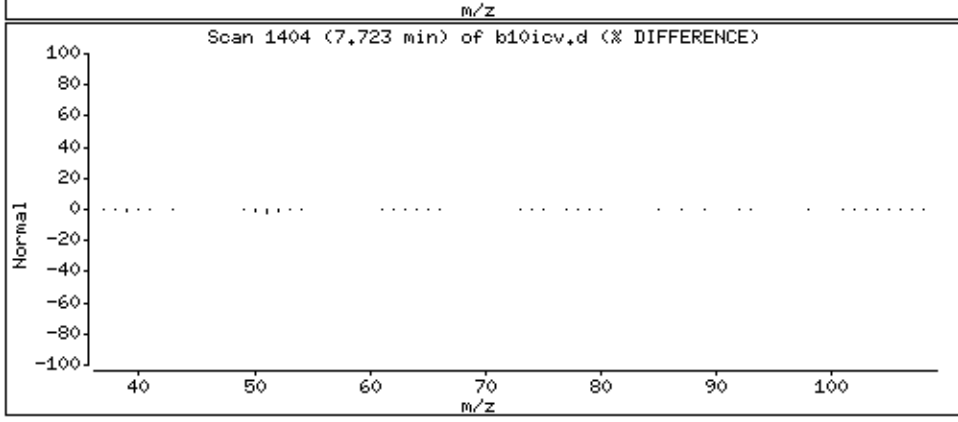
70 m&p-Xylene

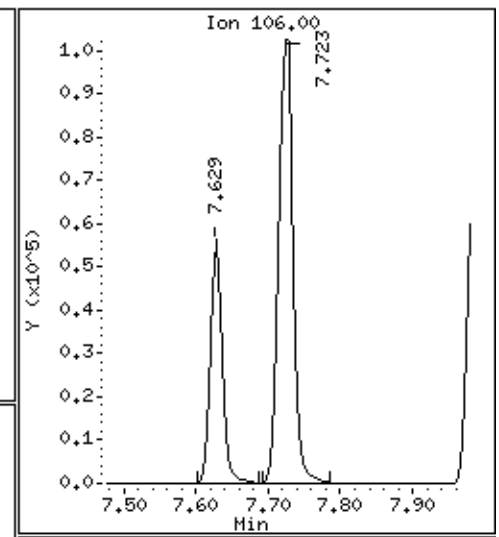
Concentration: 96.1 ppb

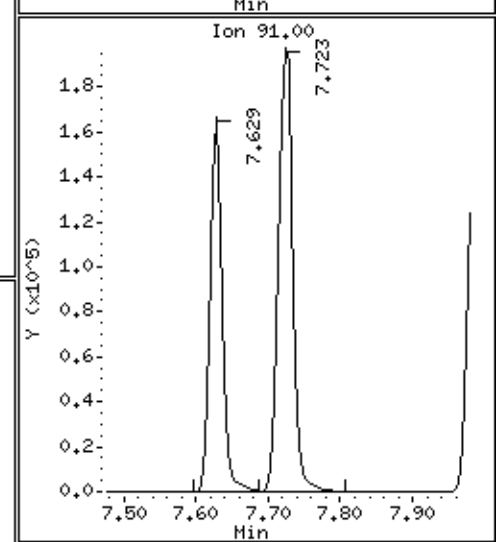


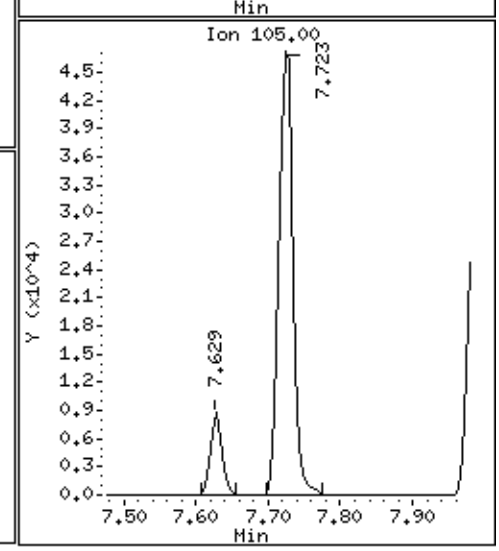












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

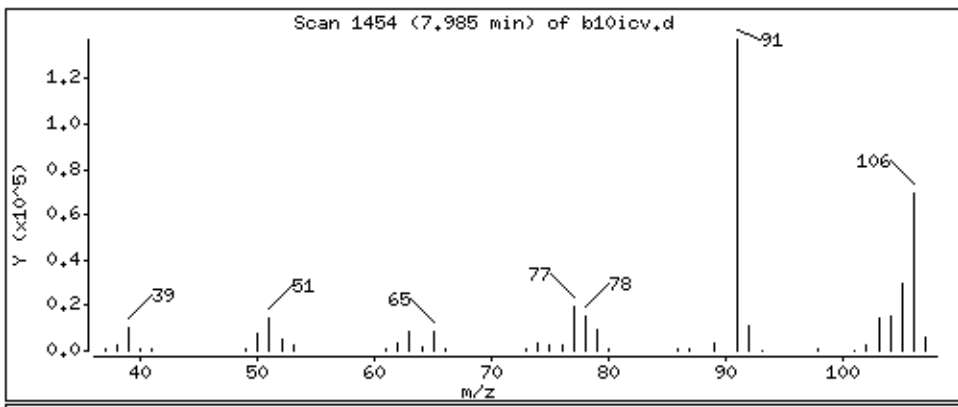
Operator: TMW

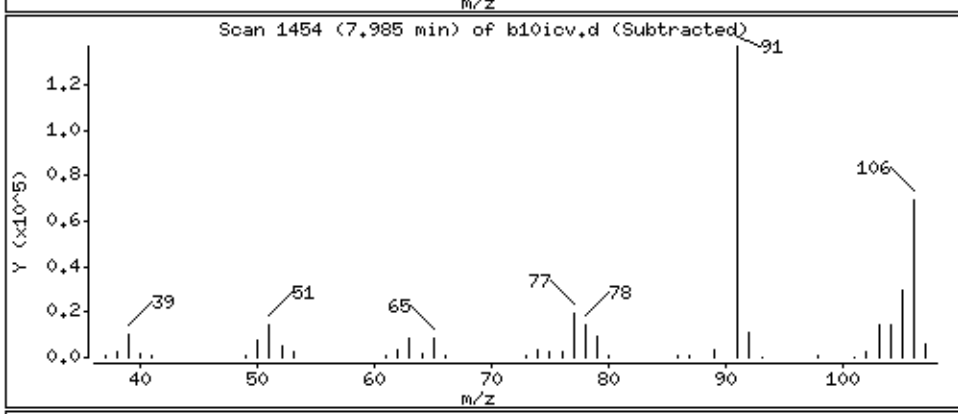
Column phase: DB-624

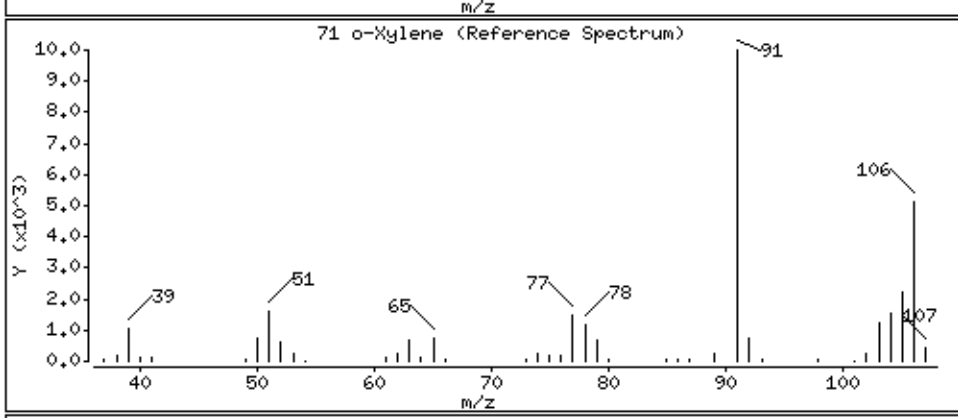
Column diameter: 0.18

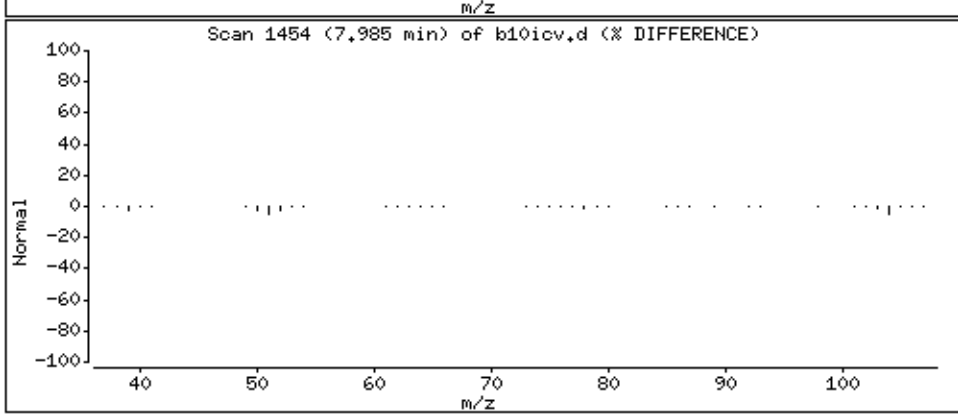
71 o-Xylene

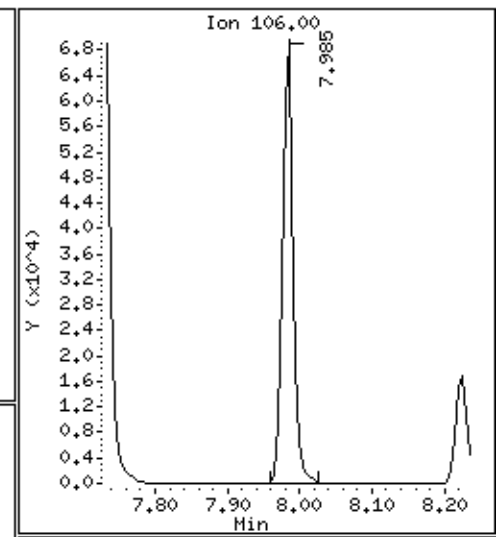
Concentration: 49.2 ppb

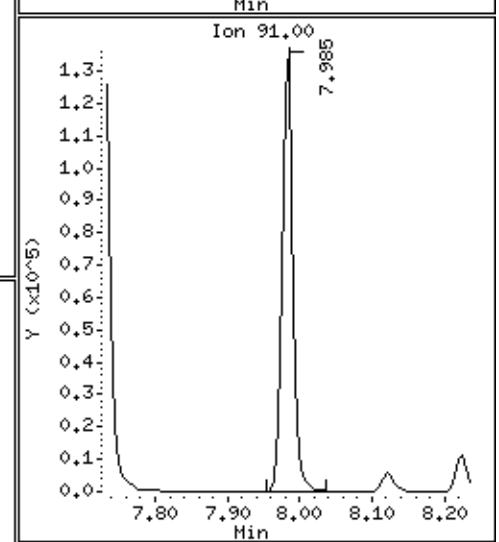


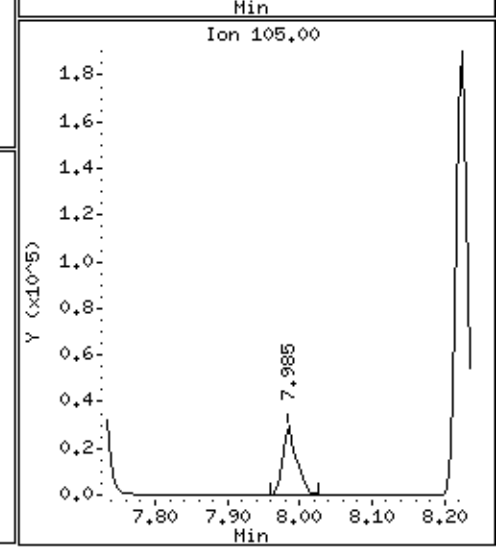












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

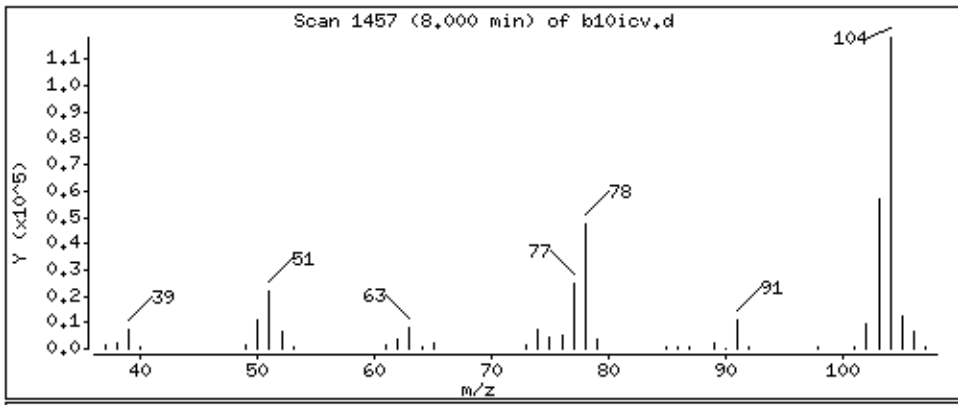
Operator: TMW

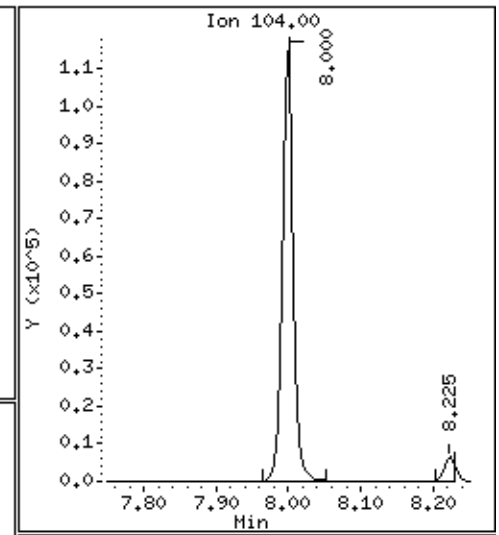
Column phase: DB-624

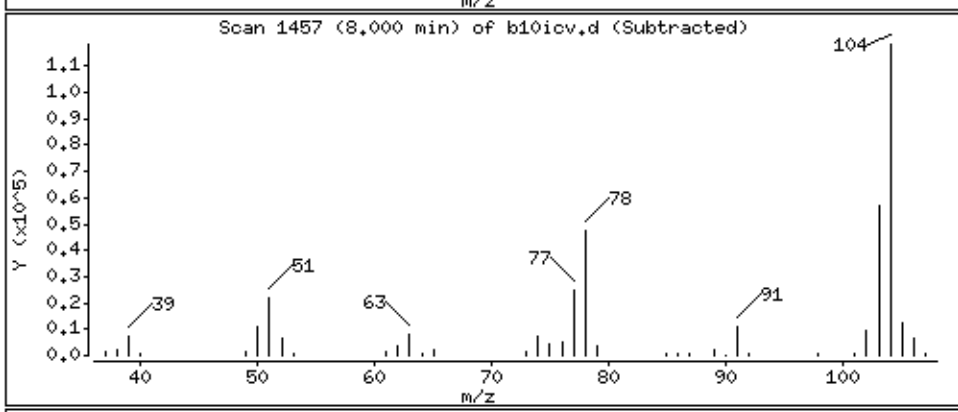
Column diameter: 0.18

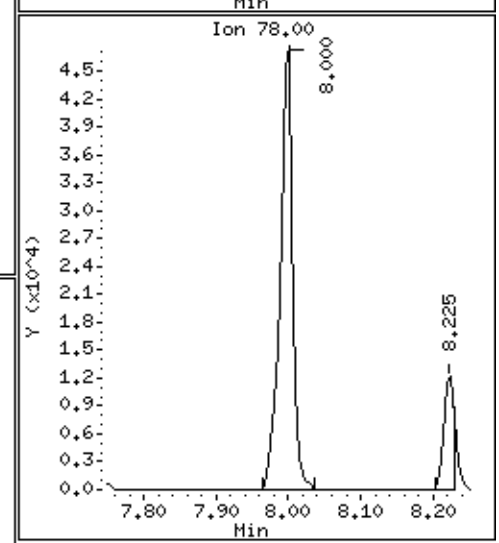
72 Styrene

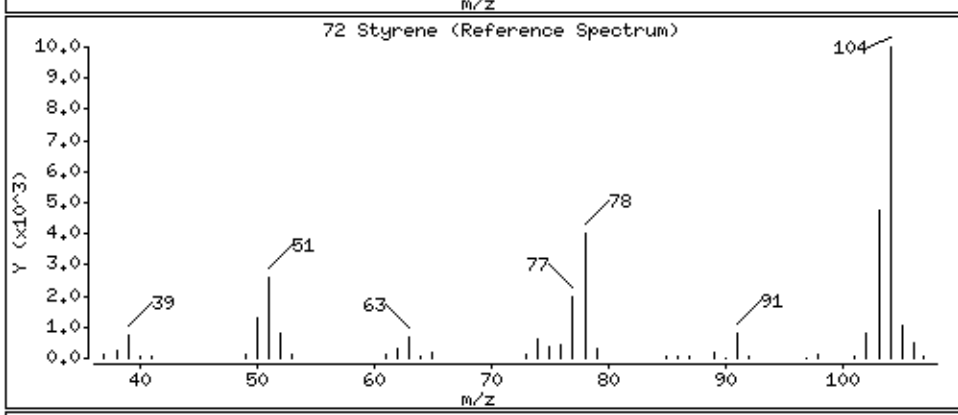
Concentration: 50.9 ppb

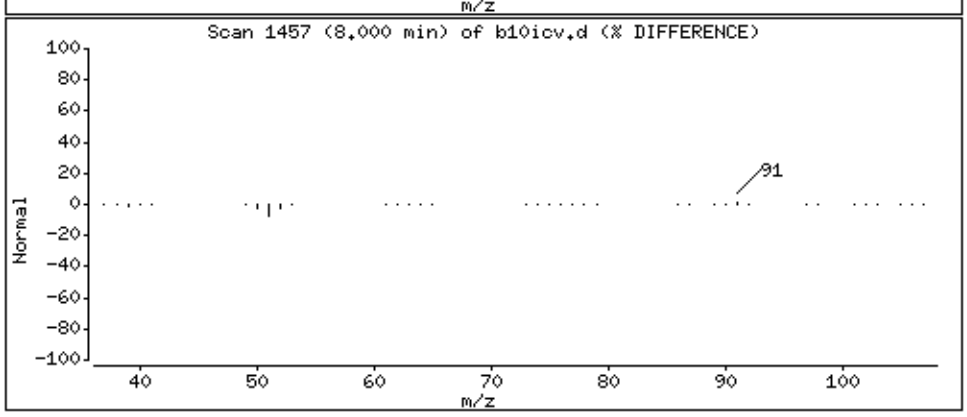












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

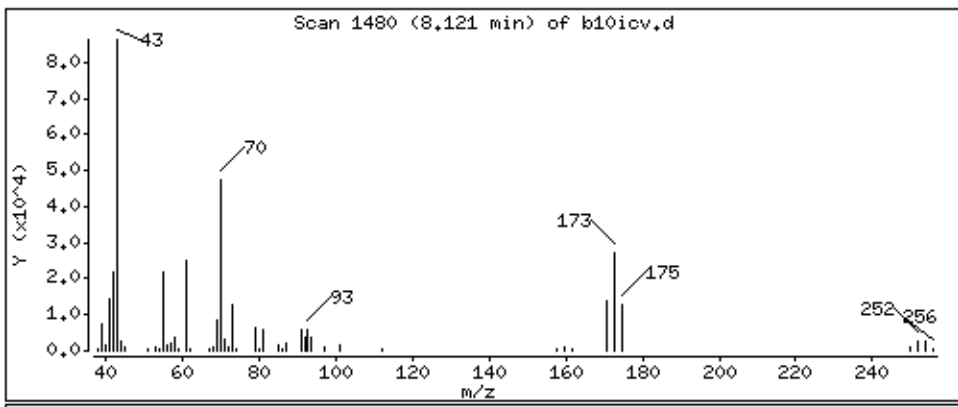
Operator: TMW

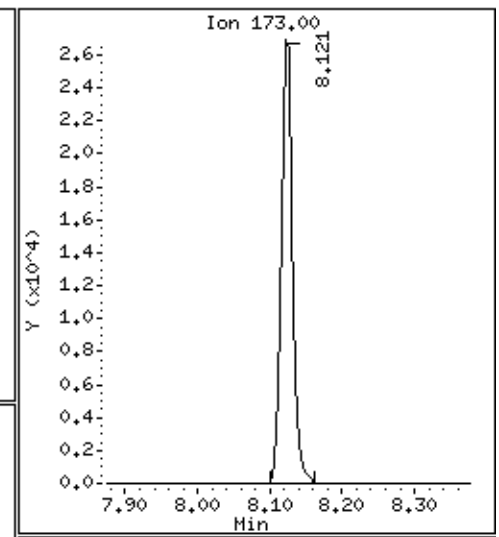
Column phase: DB-624

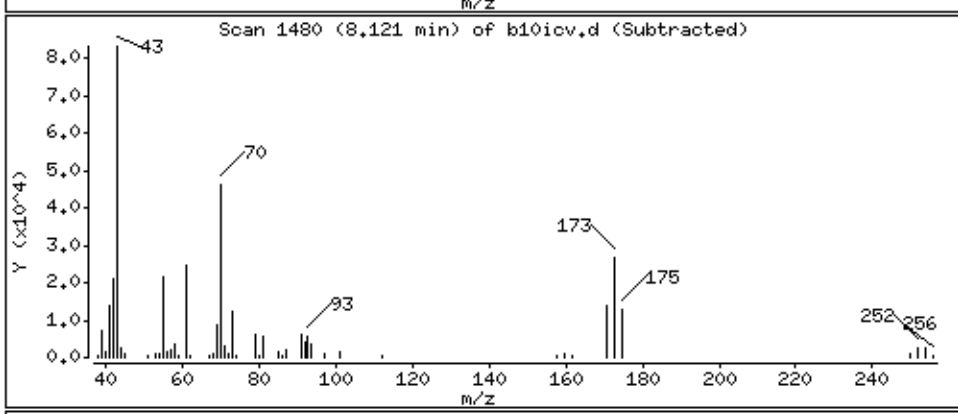
Column diameter: 0.18

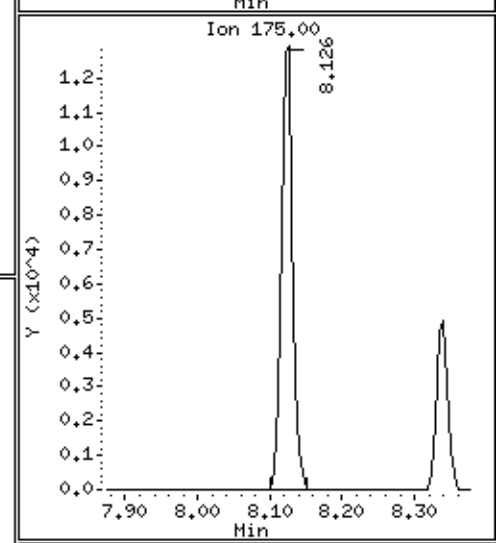
73 Bromoform

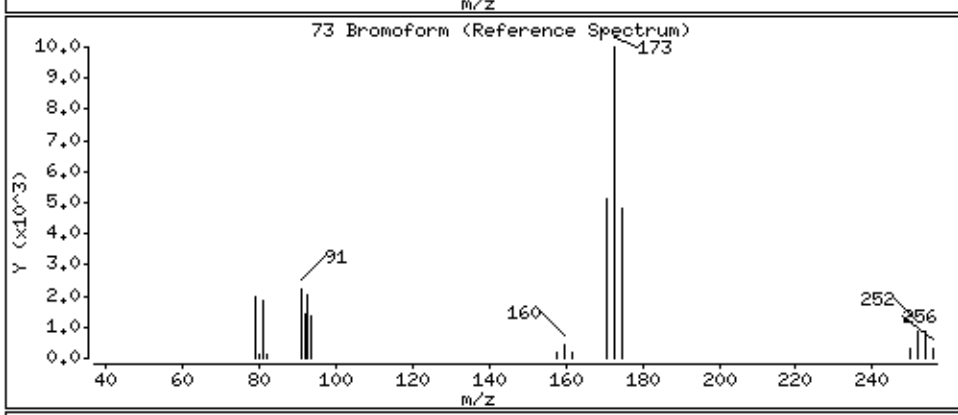
Concentration: 46.1 ppb

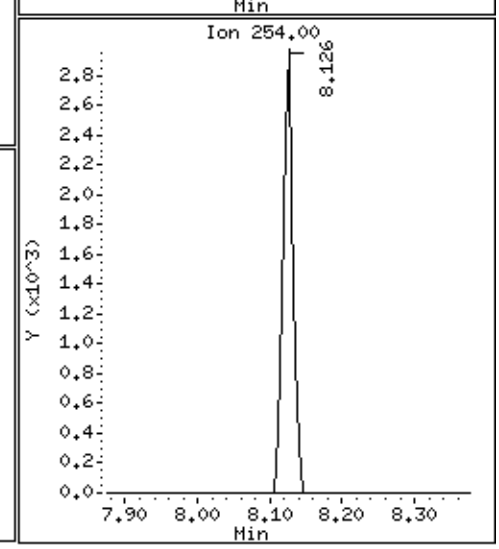


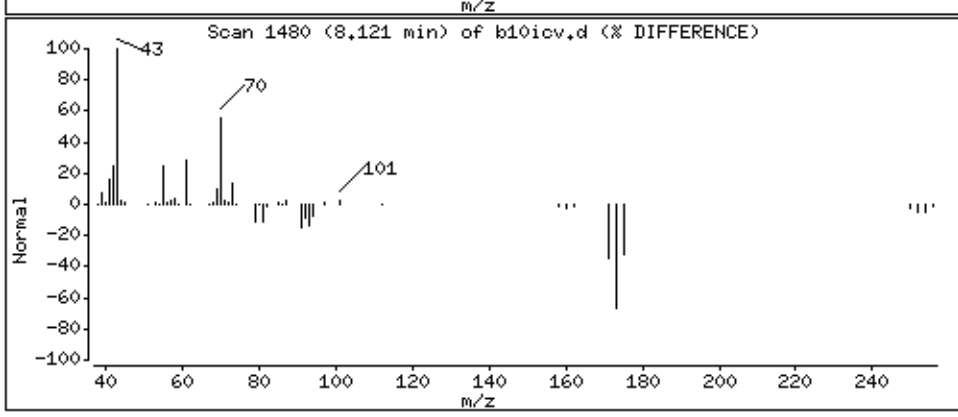












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

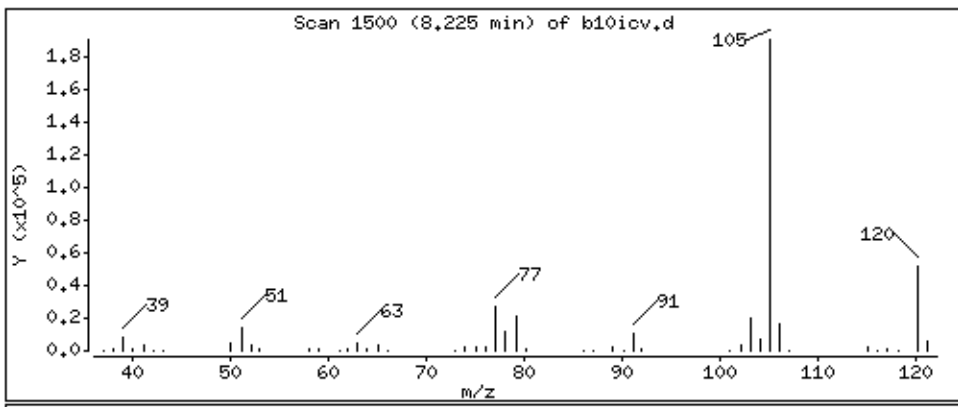
Operator: TMW

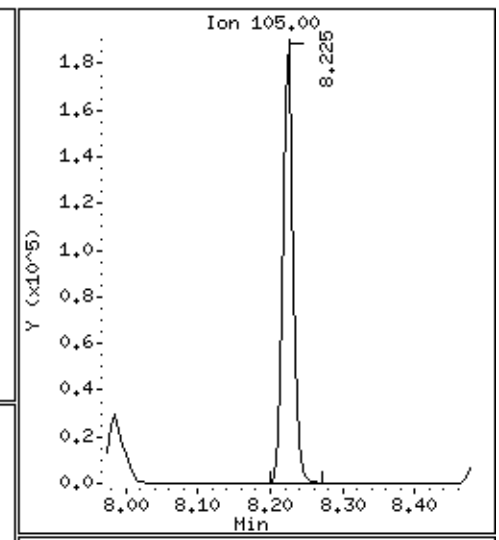
Column phase: DB-624

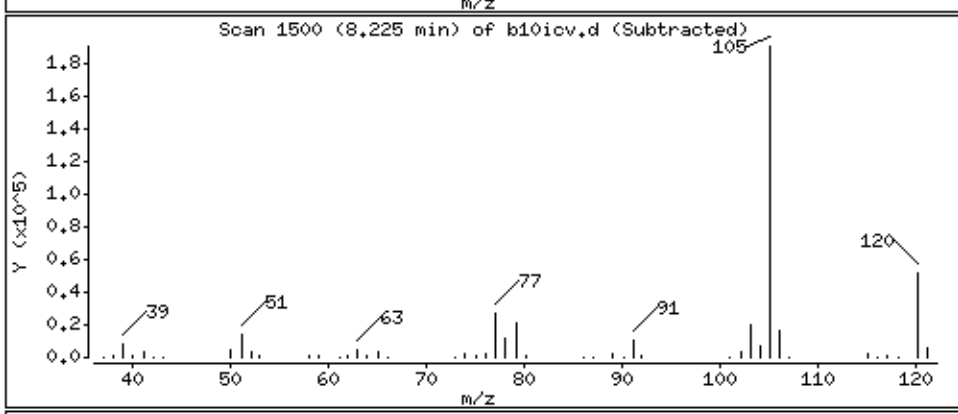
Column diameter: 0.18

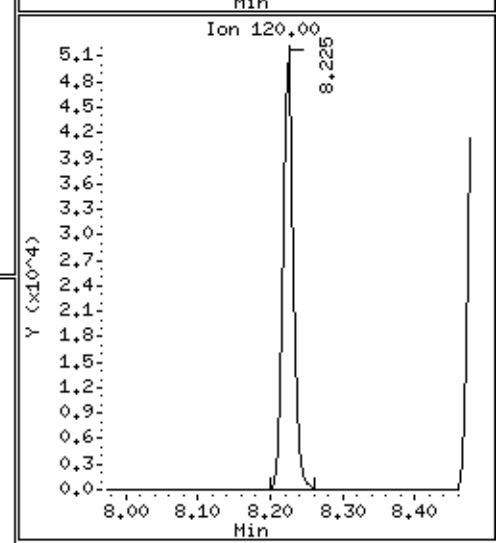
74 Isopropylbenzene

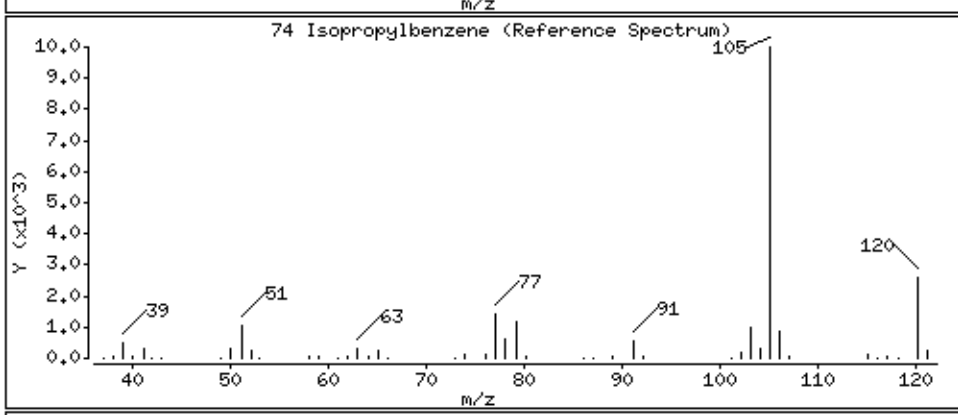
Concentration: 49.2 ppb

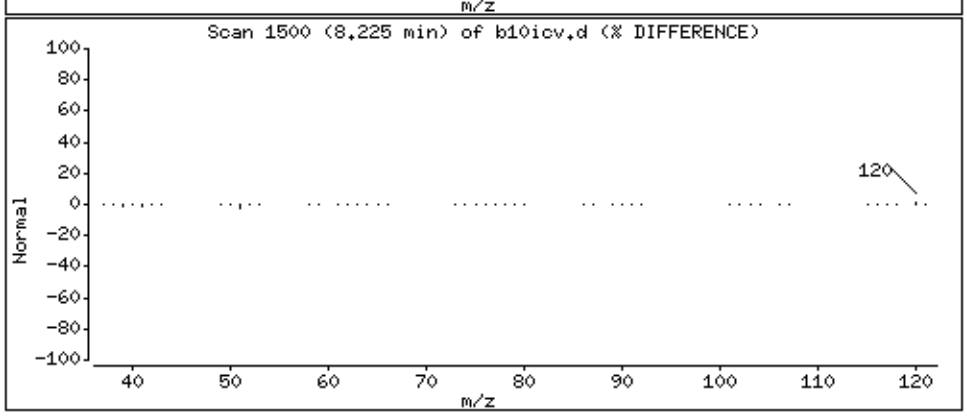












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

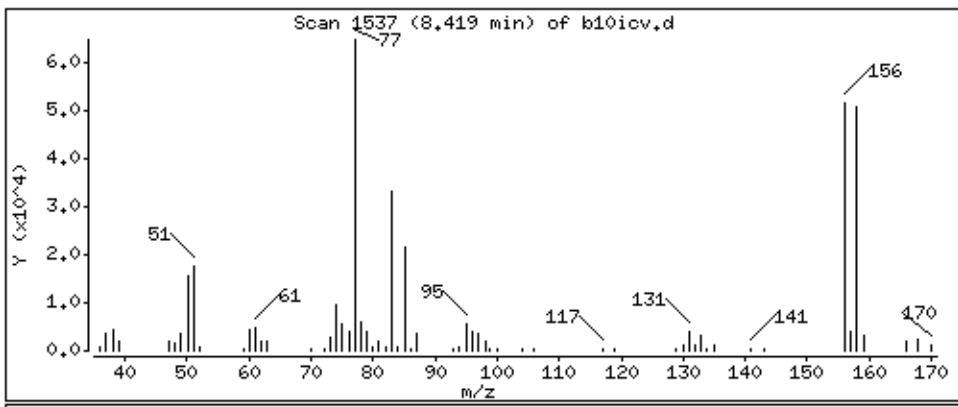
Operator: TMW

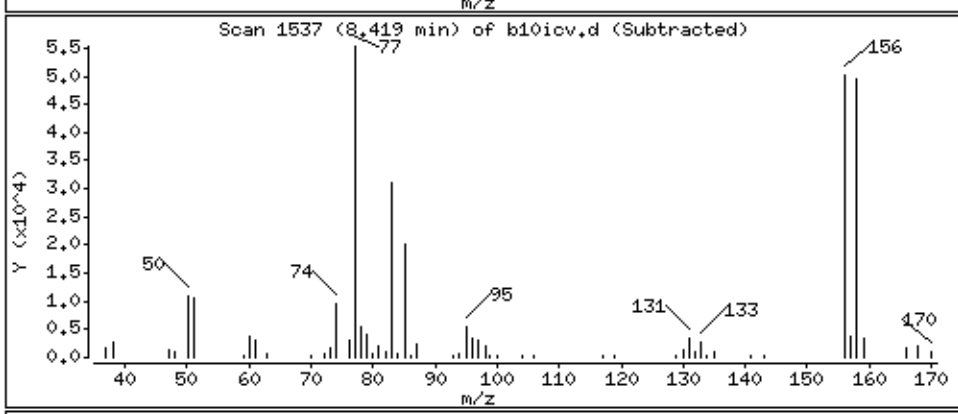
Column phase: DB-624

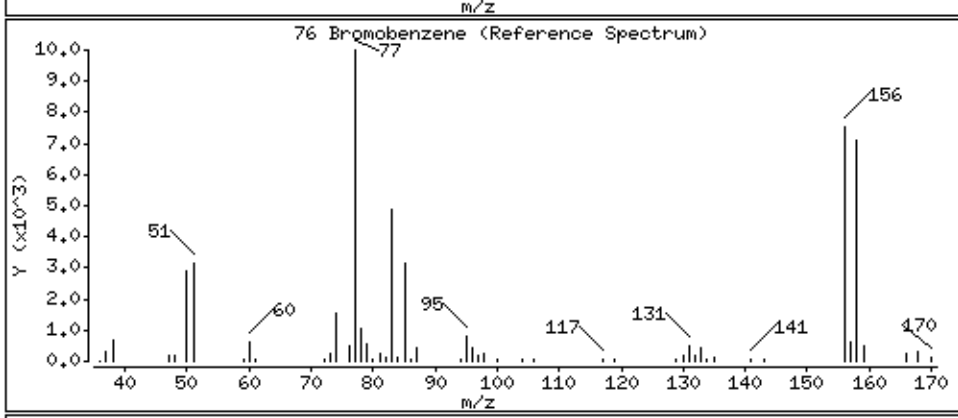
Column diameter: 0.18

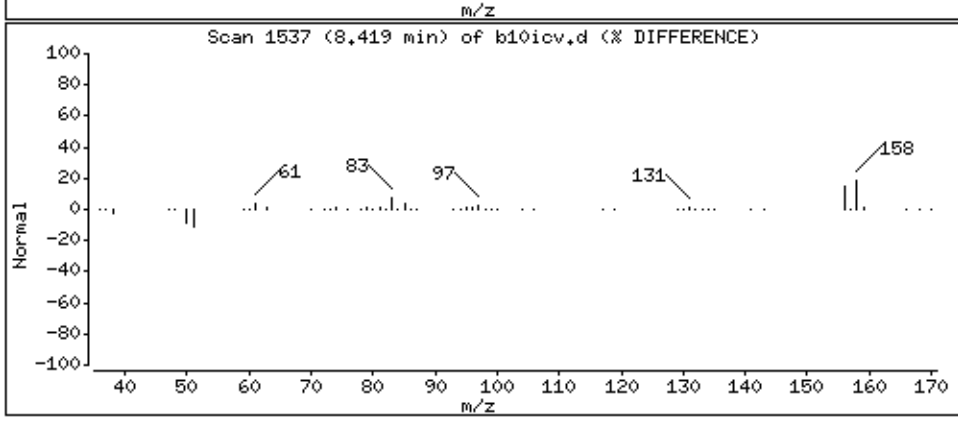
76 Bromobenzene

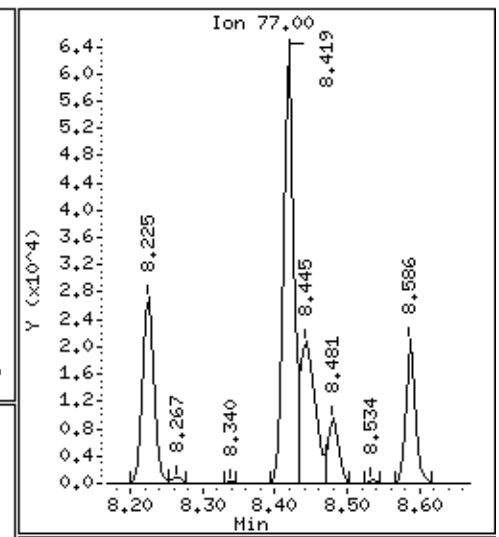
Concentration: 48.8 ppb

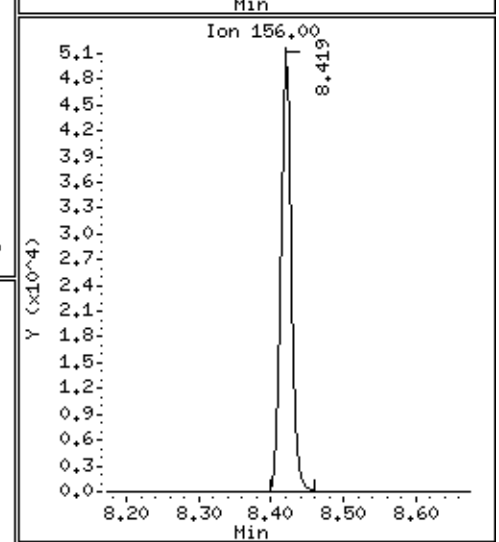


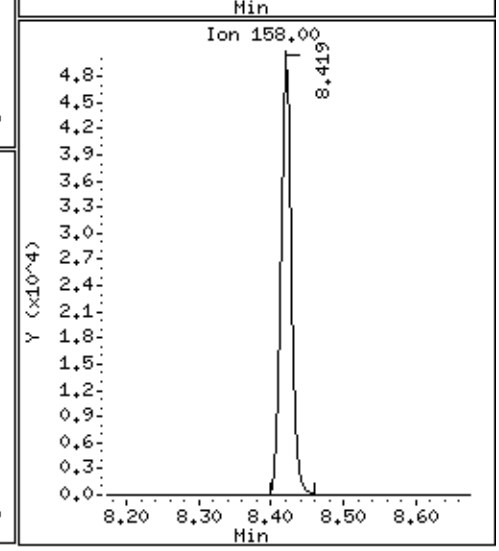












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

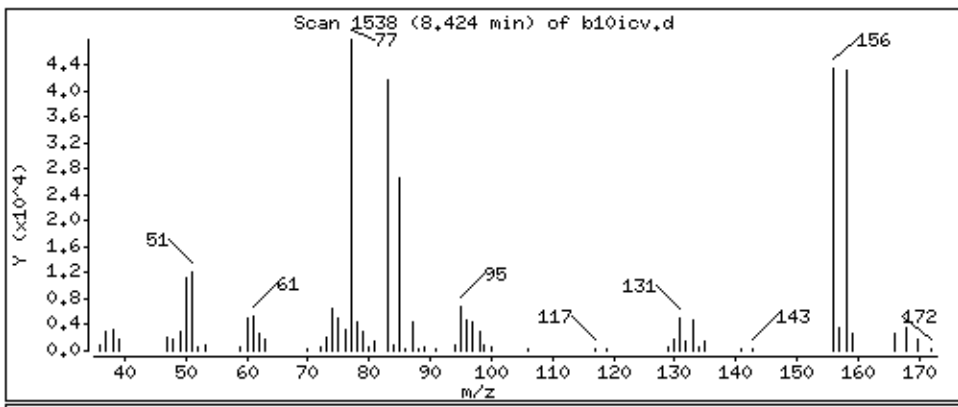
Operator: TMW

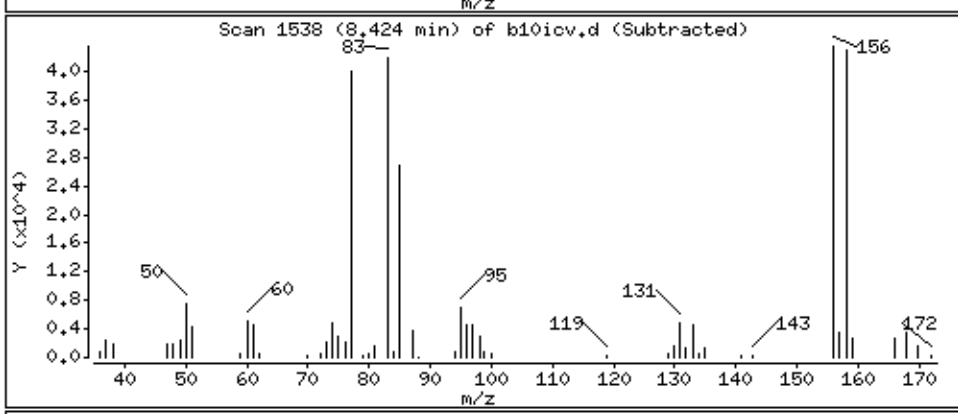
Column phase: DB-624

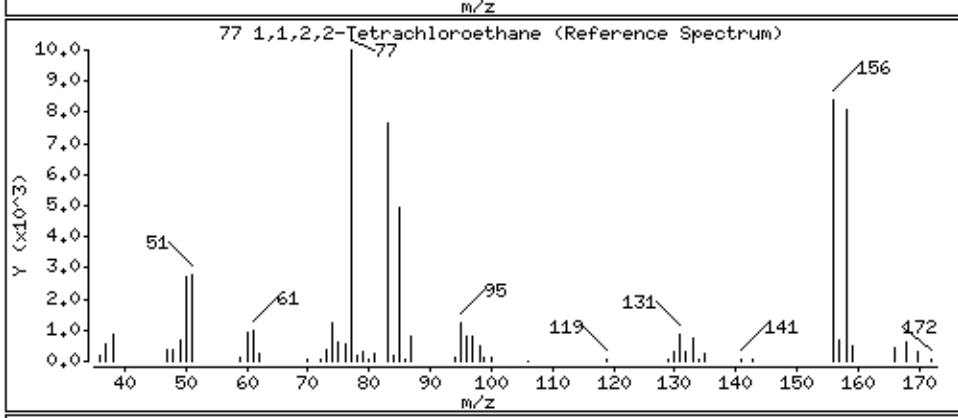
Column diameter: 0.18

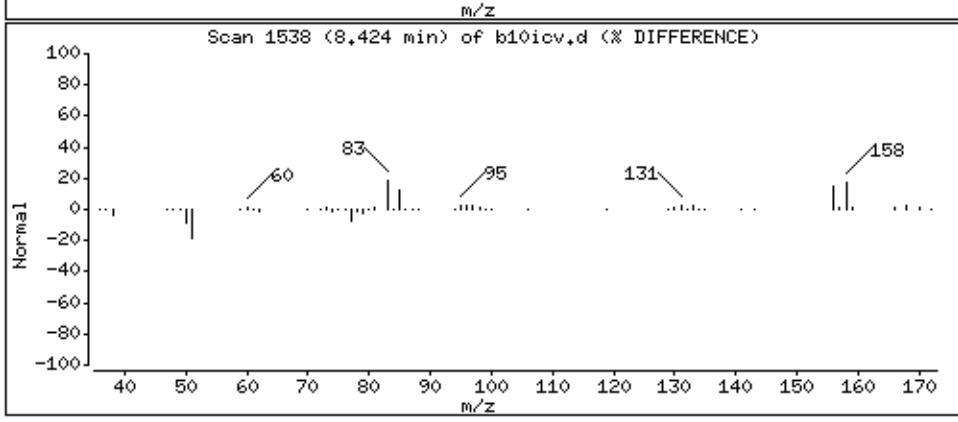
77 1,1,2,2-Tetrachloroethane

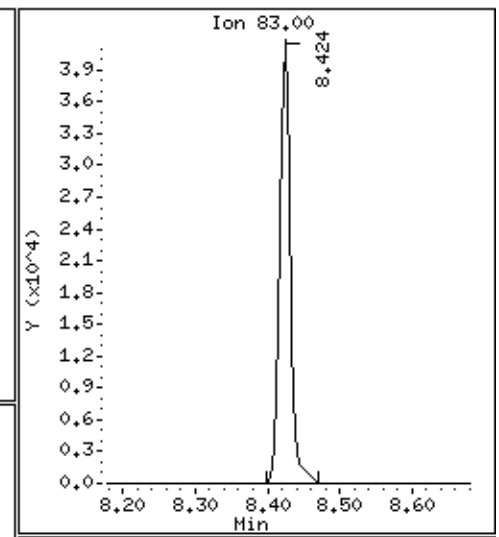
Concentration: 47.9 ppb

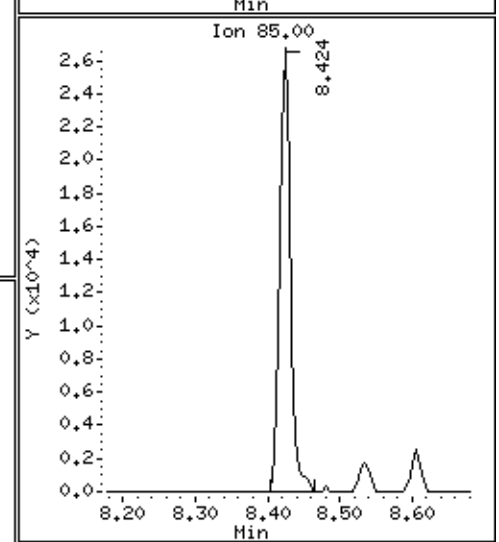


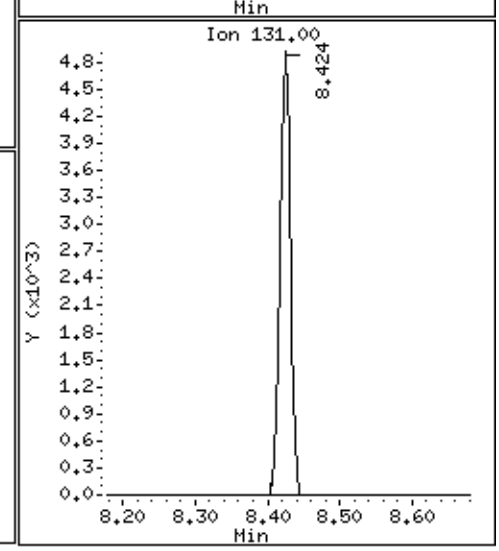












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

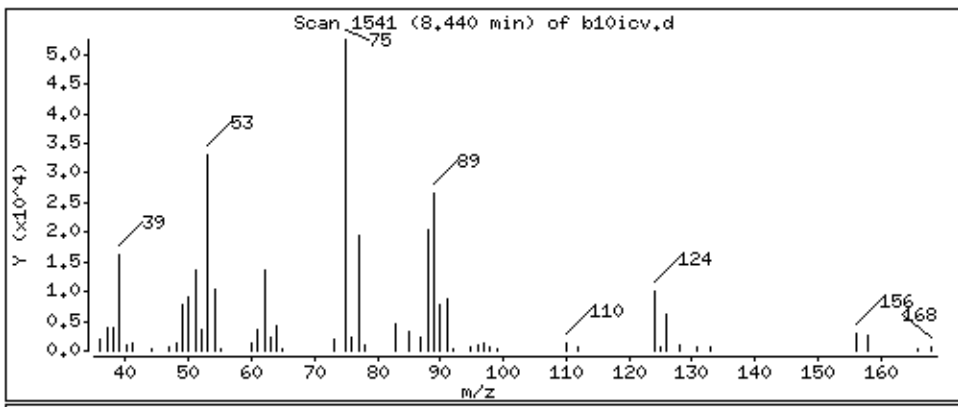
Operator: TMW

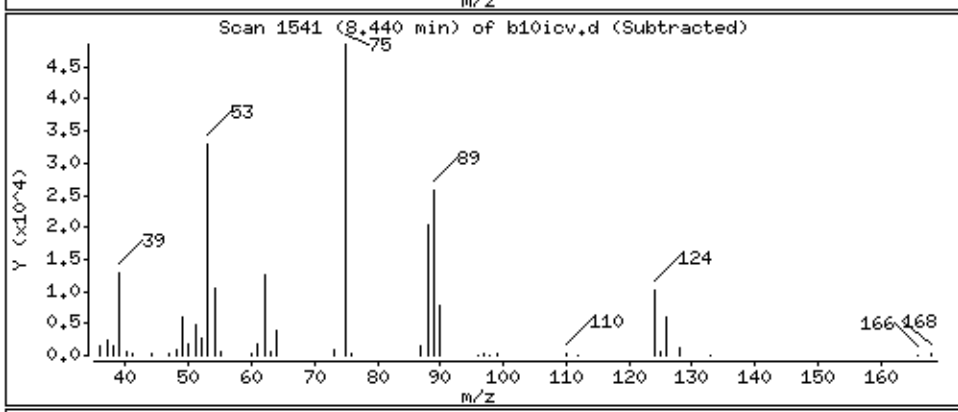
Column phase: DB-624

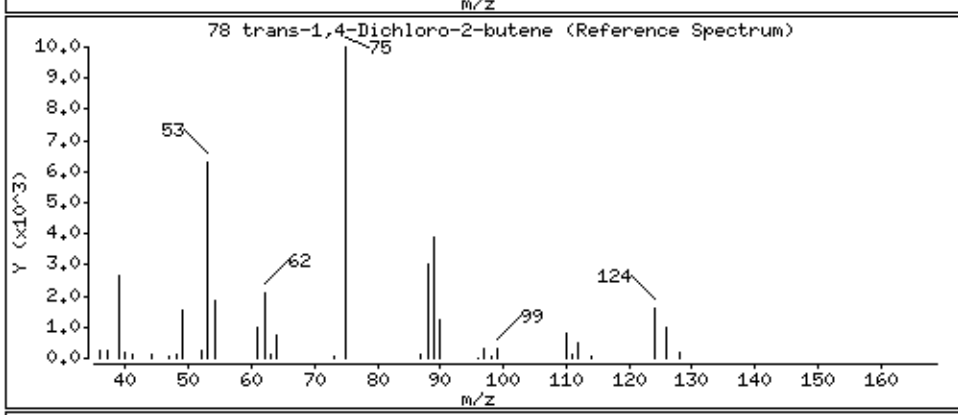
Column diameter: 0.18

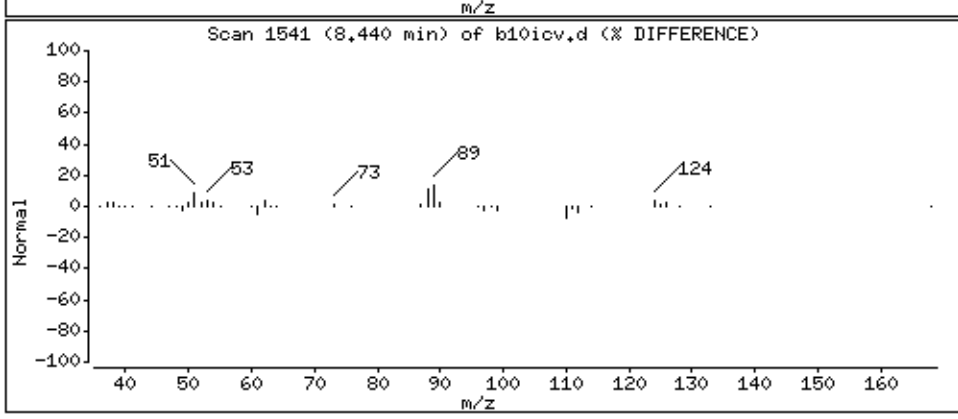
78 trans-1,4-Dichloro-2-butene

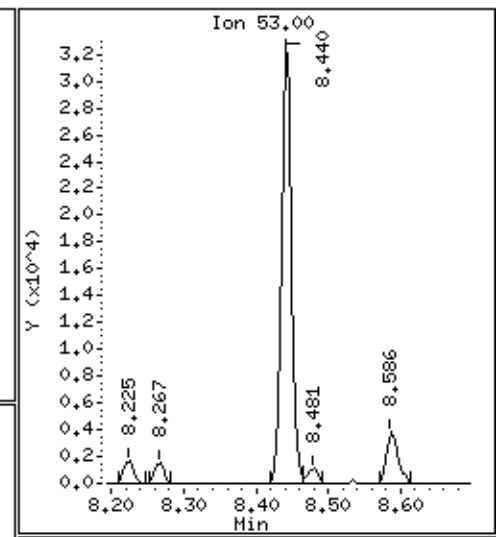
Concentration: 190 ppb

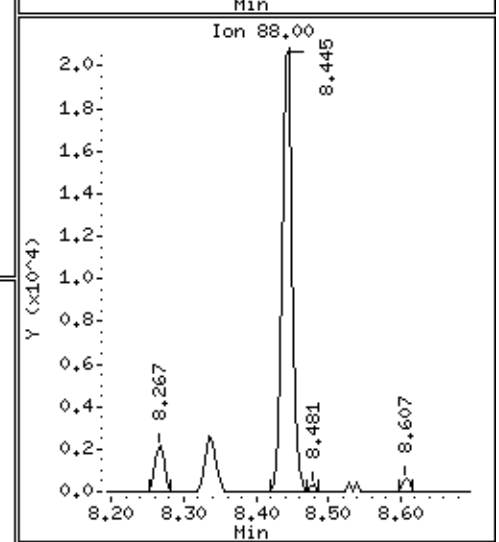


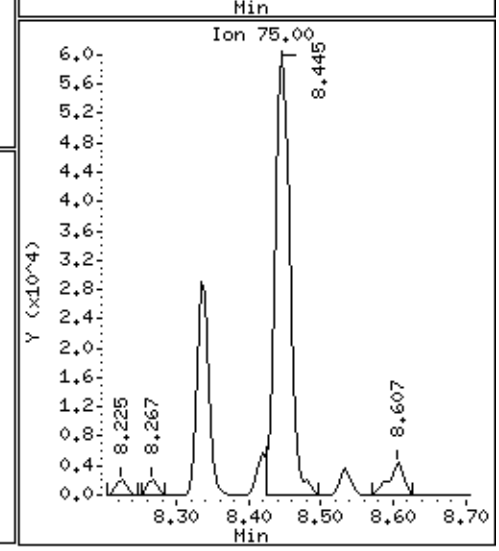












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

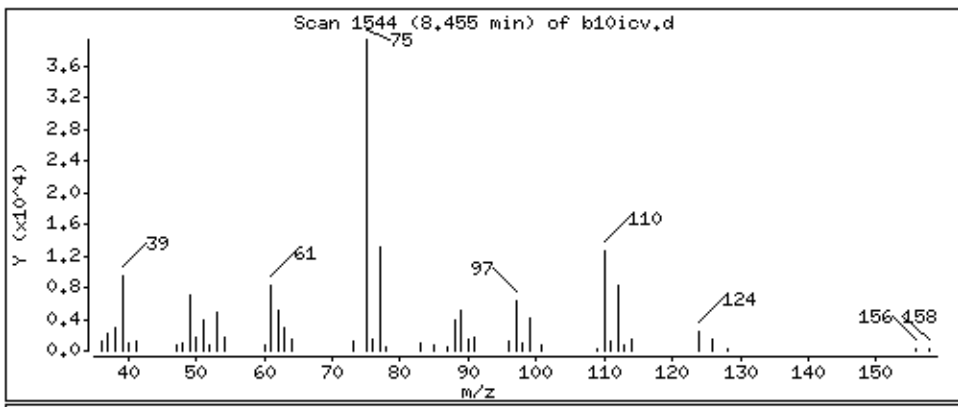
Operator: TMW

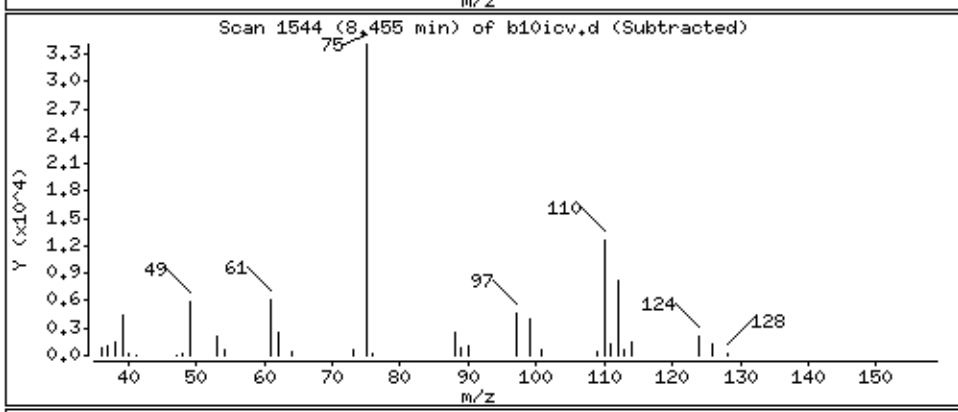
Column phase: DB-624

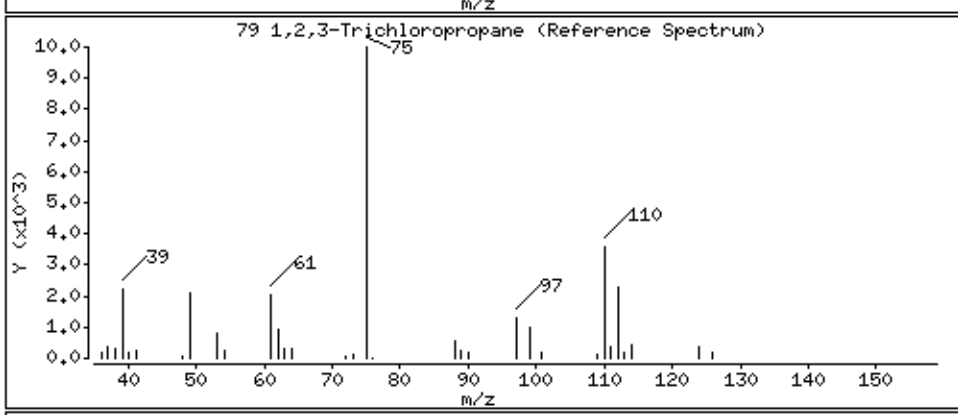
Column diameter: 0.18

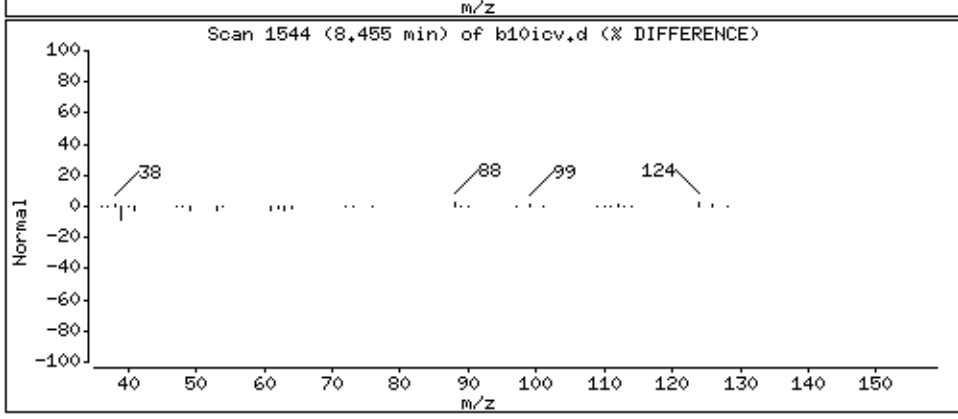
79 1,2,3-Trichloropropane

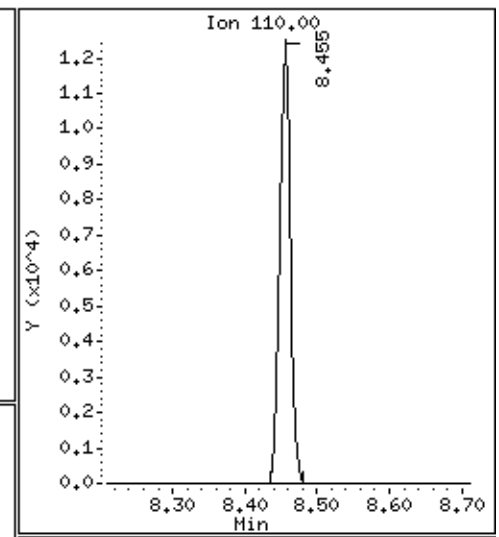
Concentration: 50.7 ppb

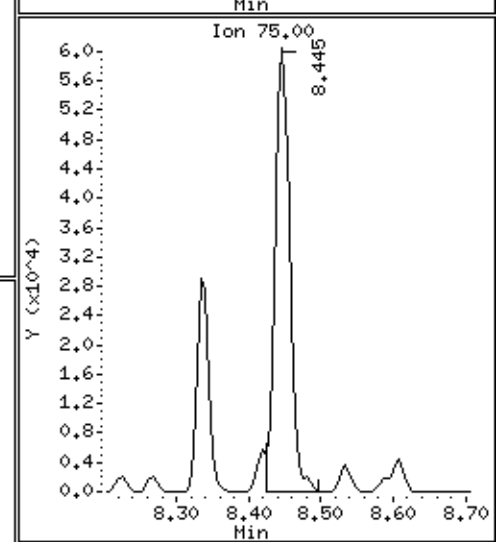


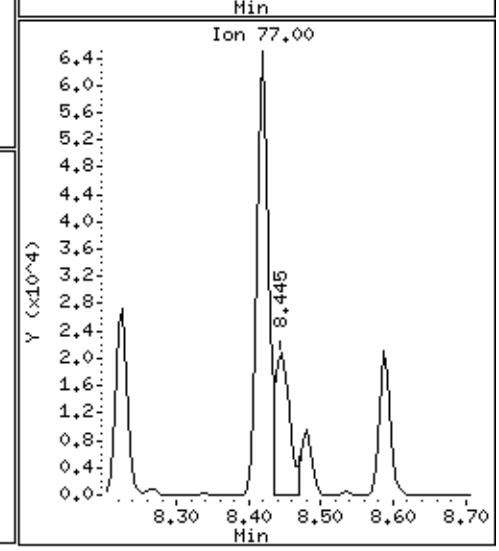












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

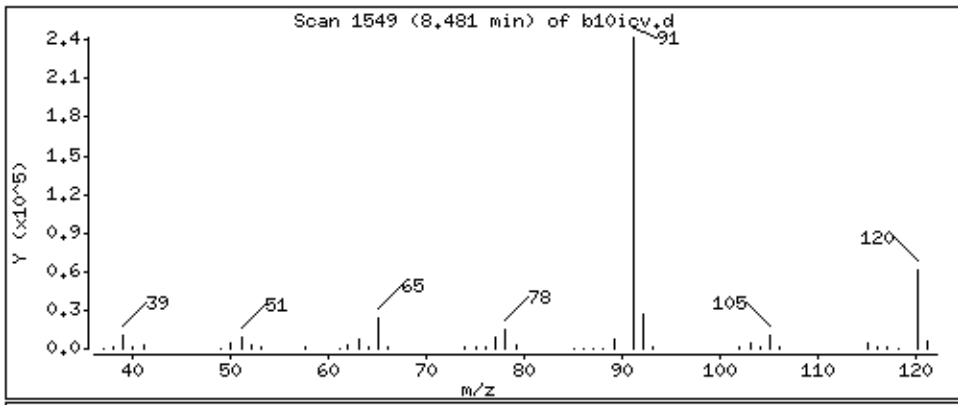
Operator: TMW

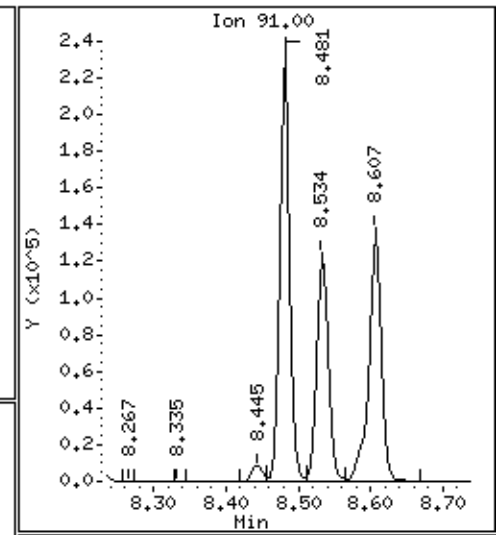
Column phase: DB-624

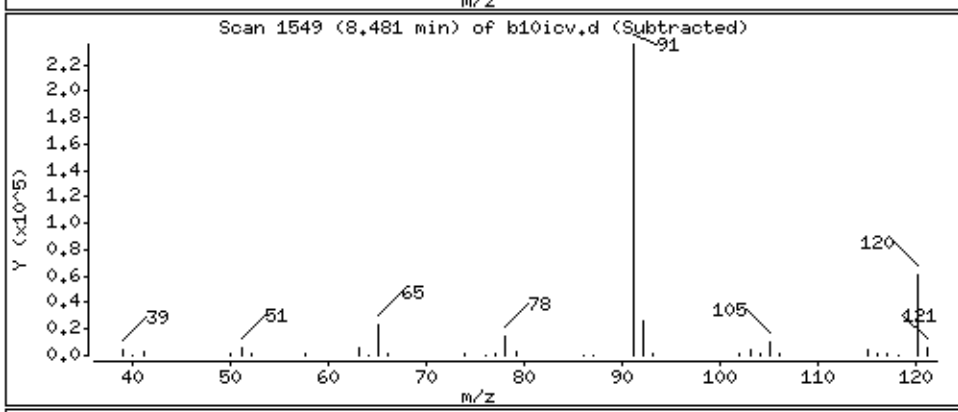
Column diameter: 0.18

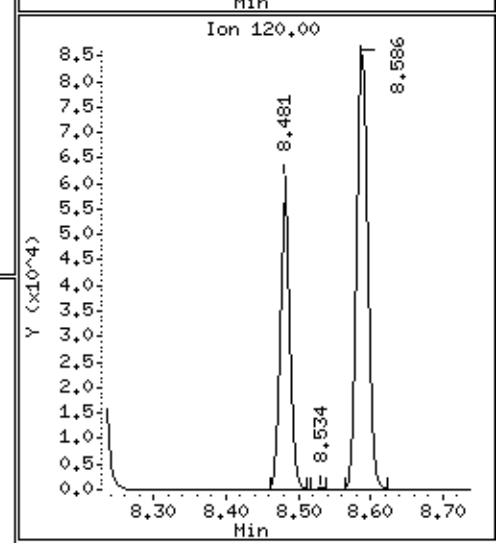
80 n-Propylbenzene

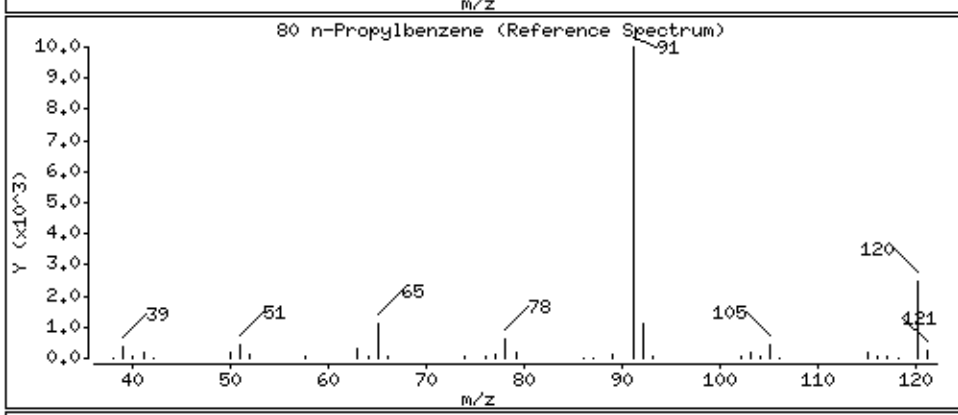
Concentration: 50.6 ppb

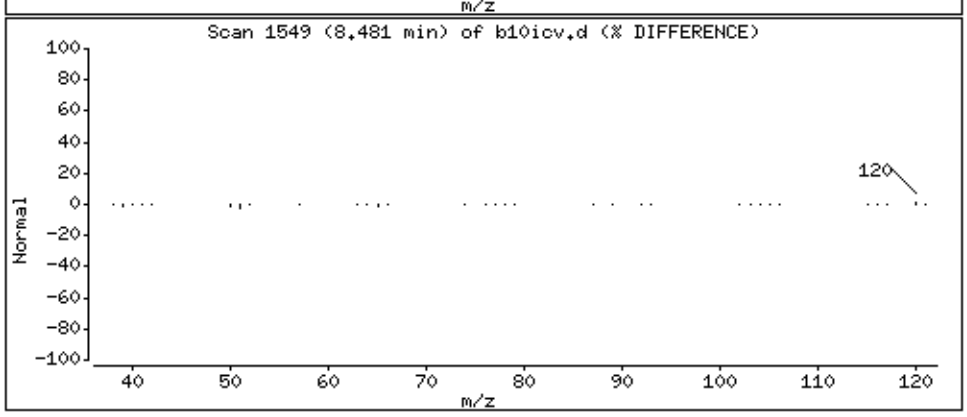












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

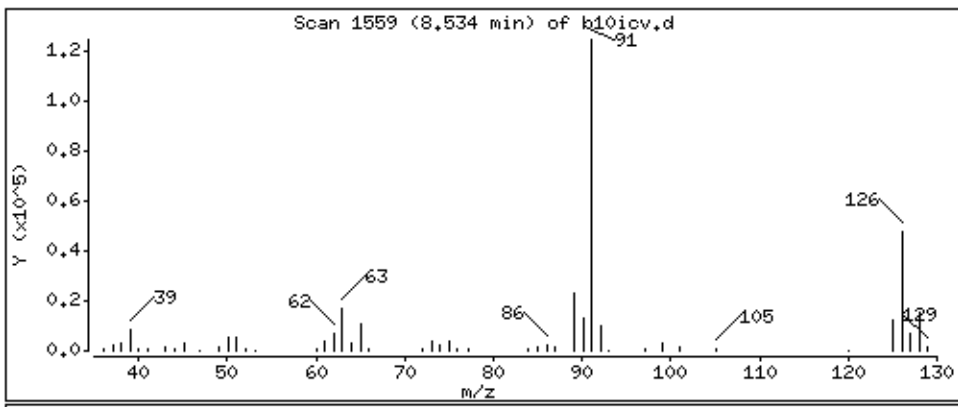
Operator: TMW

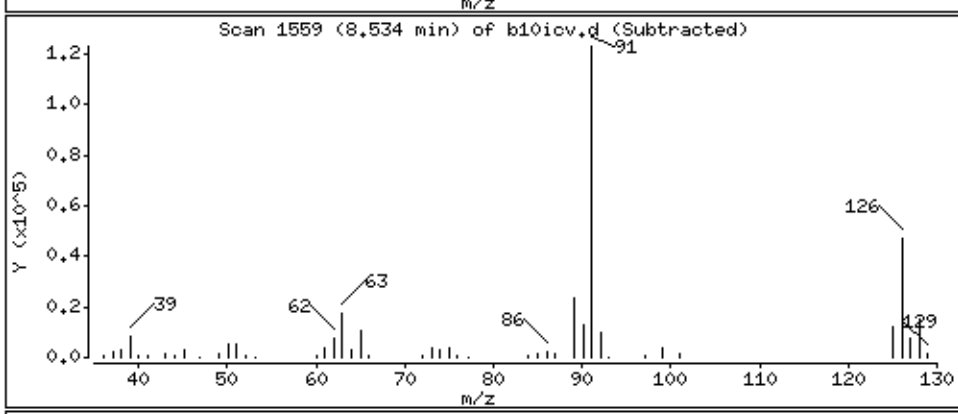
Column phase: DB-624

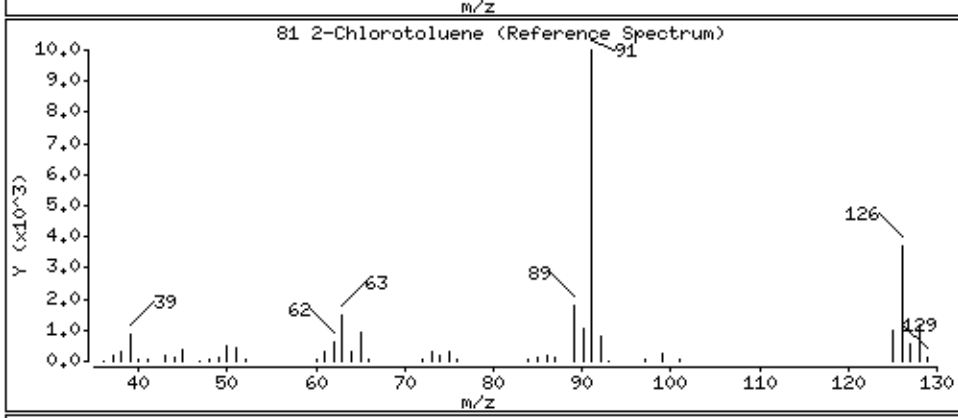
Column diameter: 0.18

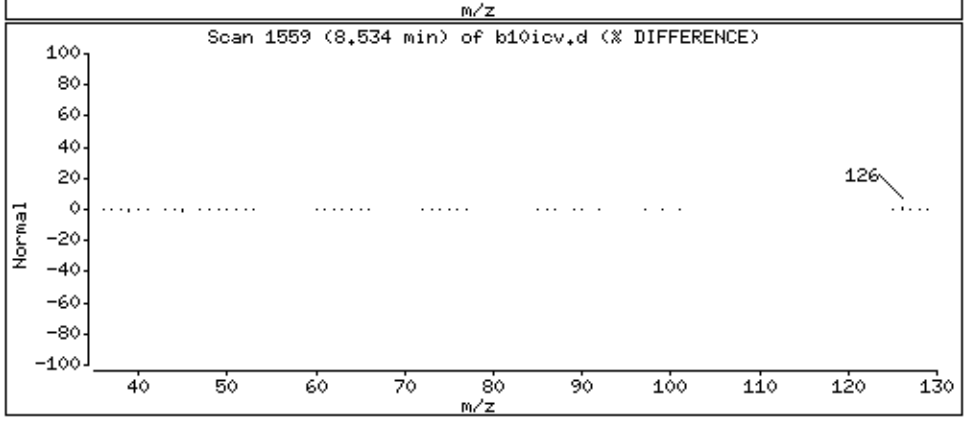
81 2-Chlorotoluene

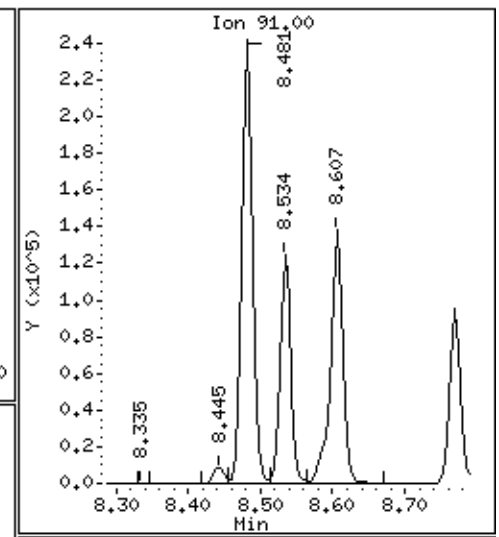
Concentration: 48.0 ppb

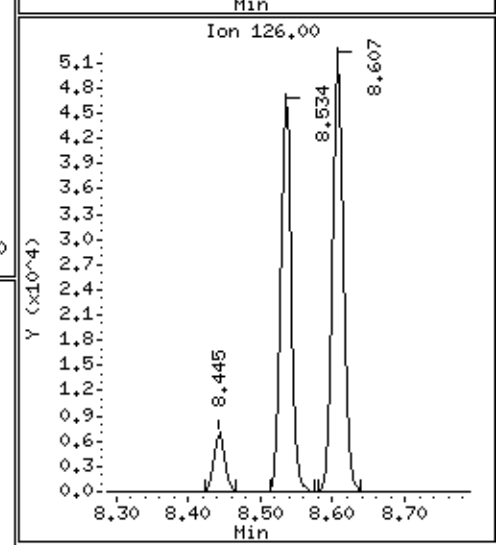












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

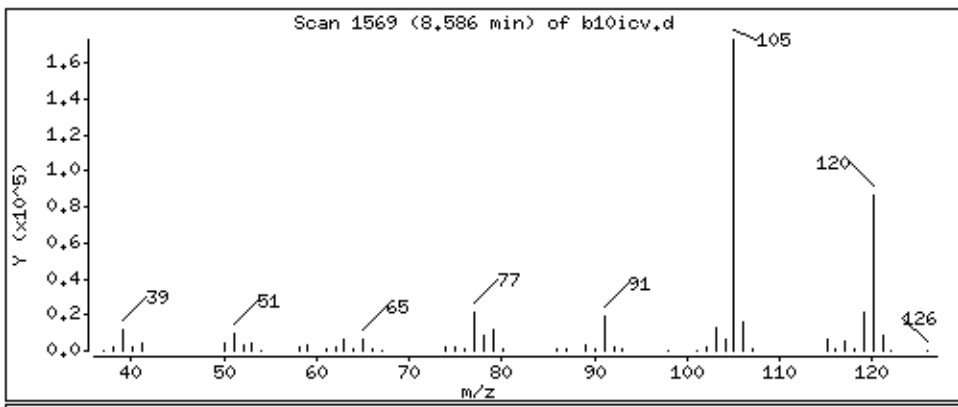
Operator: TMW

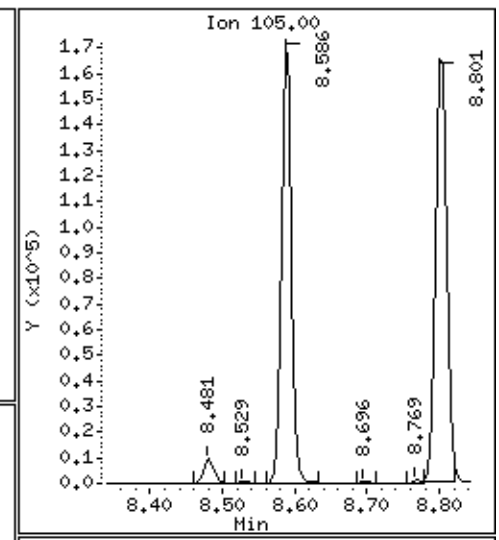
Column phase: DB-624

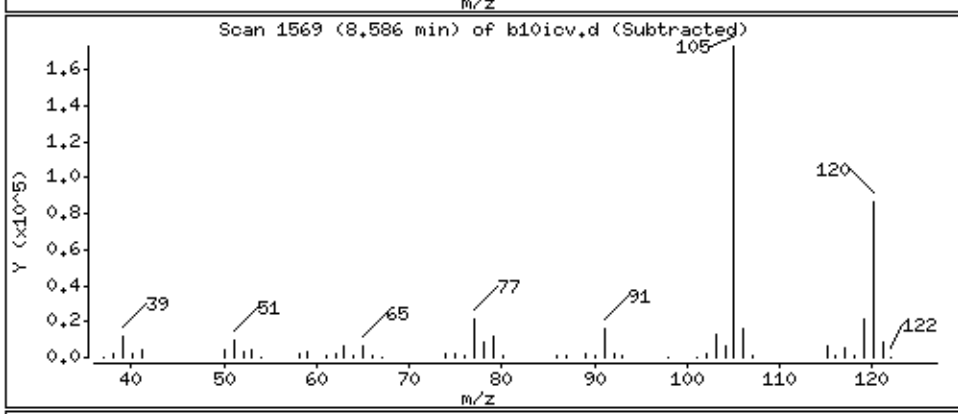
Column diameter: 0.18

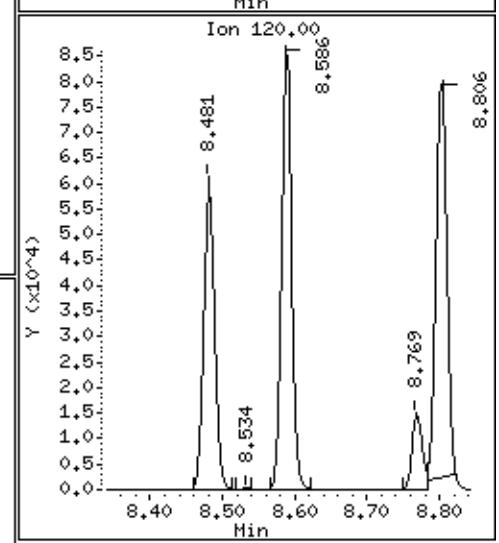
82 1,3,5-Trimethylbenzene

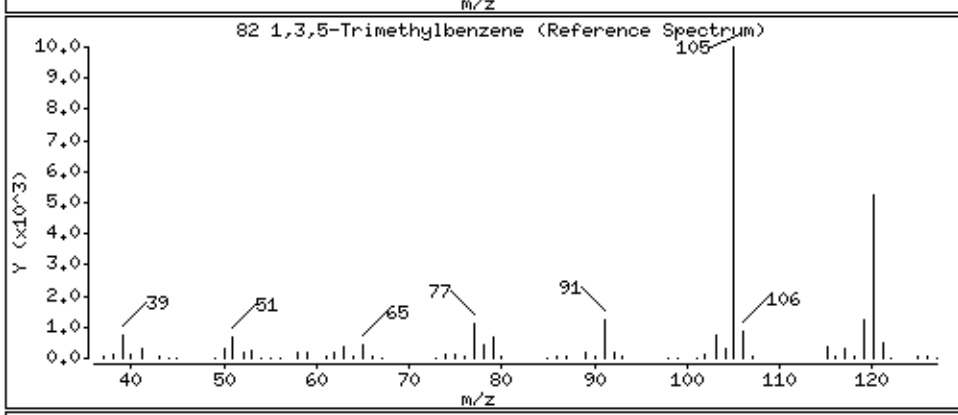
Concentration: 48.8 ppb

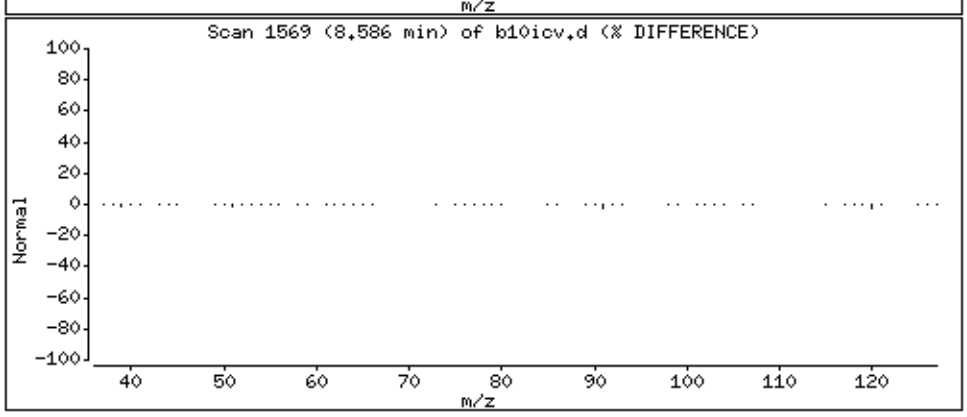












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Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

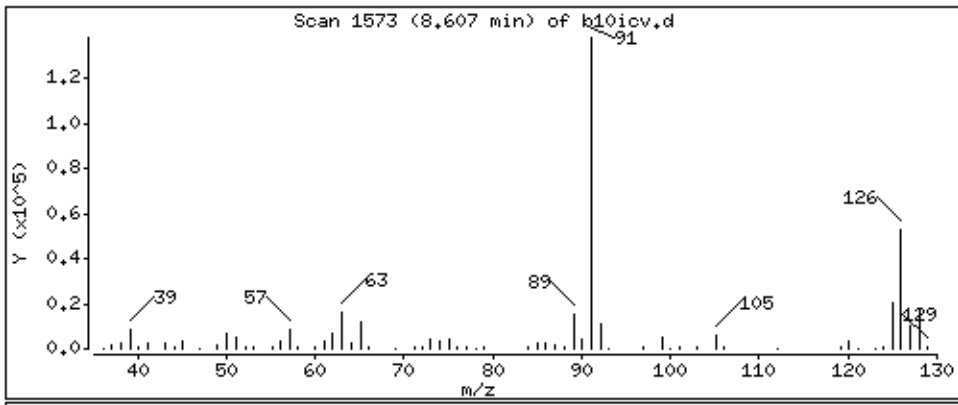
Operator: TMW

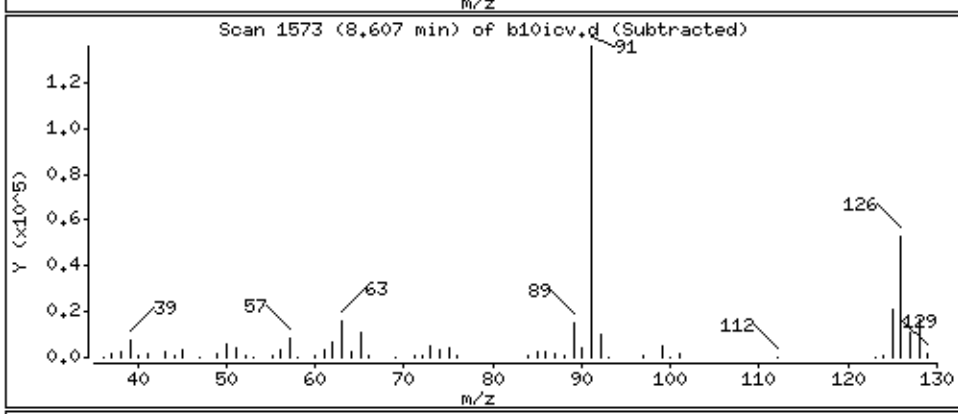
Column phase: DB-624

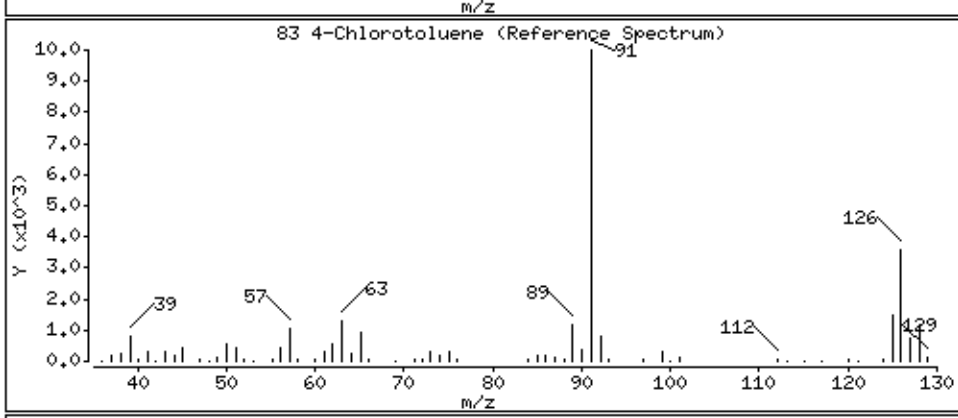
Column diameter: 0.18

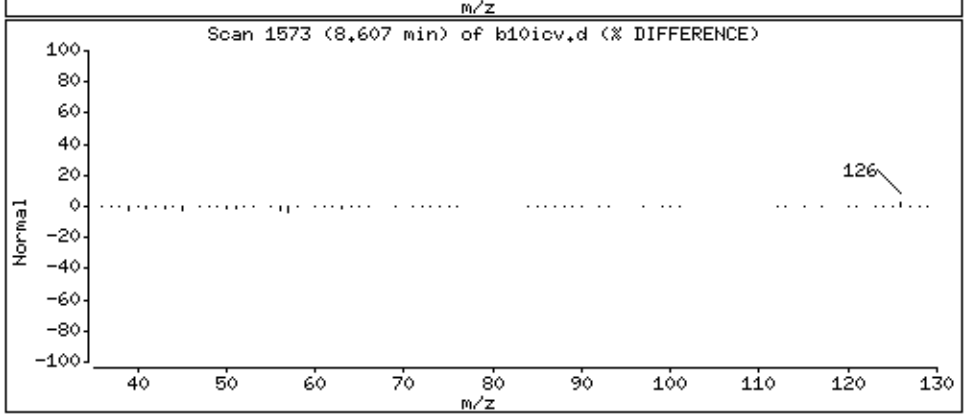
83 4-Chlorotoluene

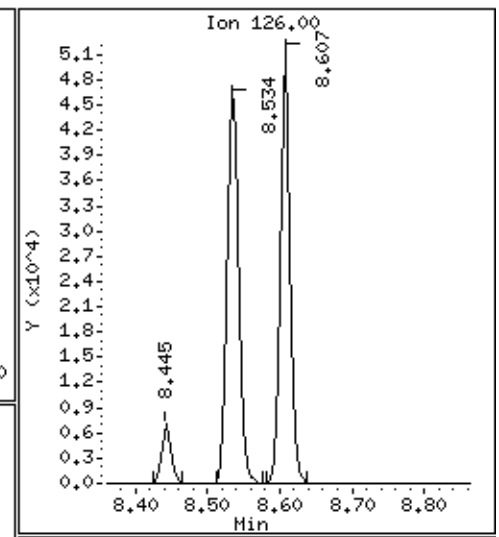
Concentration: 45.9 ppb

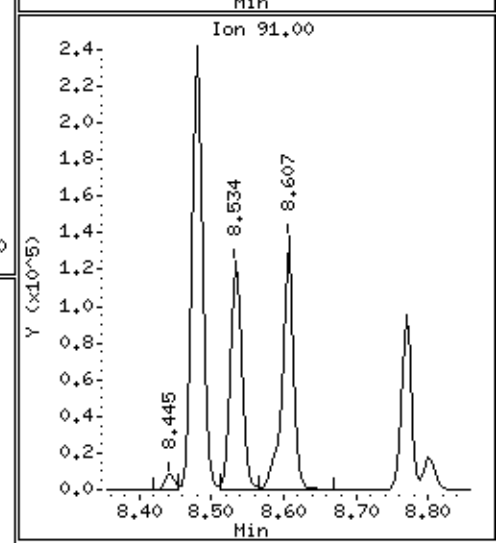












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

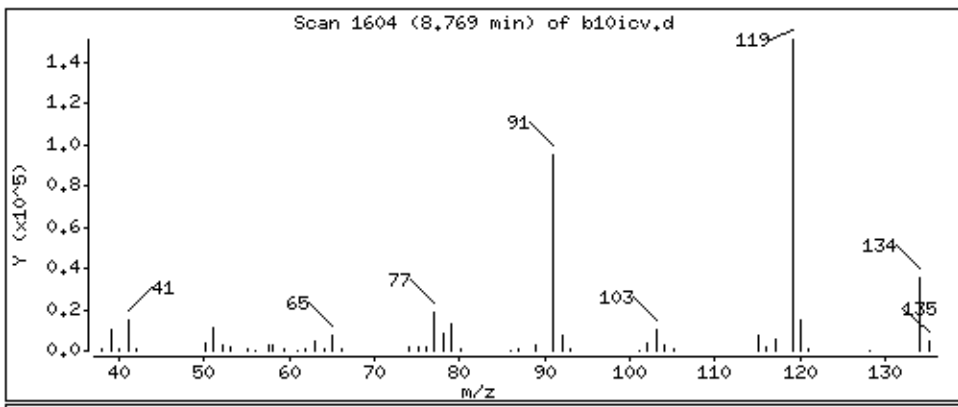
Operator: TMW

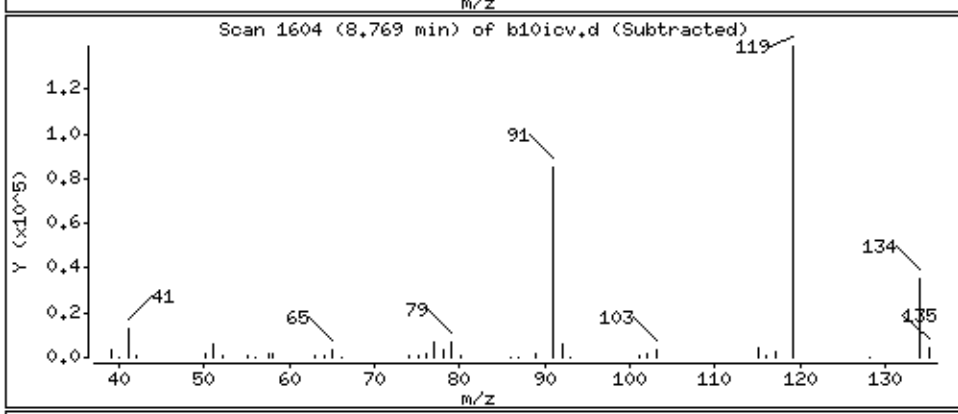
Column phase: DB-624

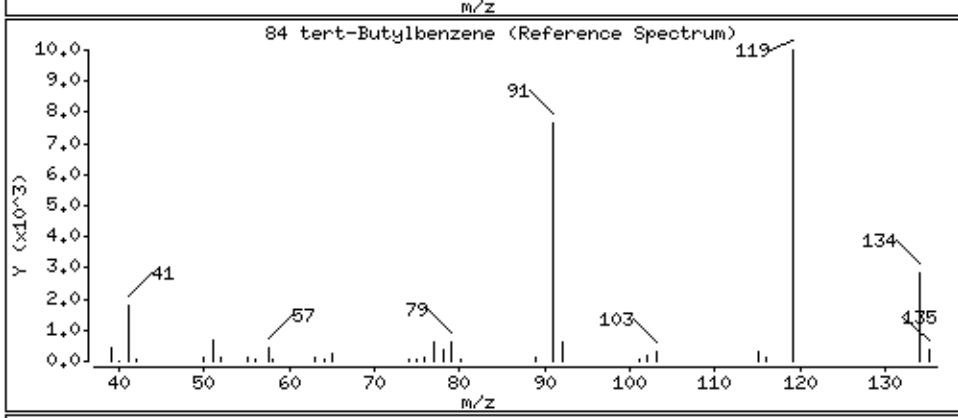
Column diameter: 0.18

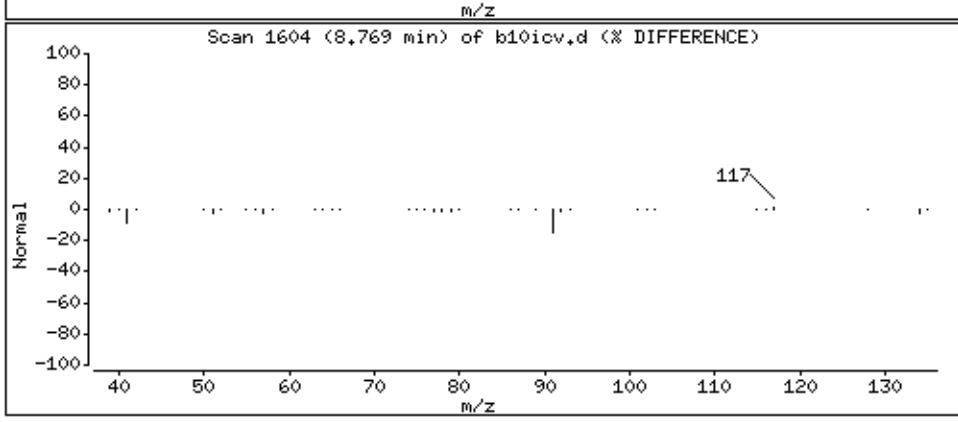
84 tert-Butylbenzene

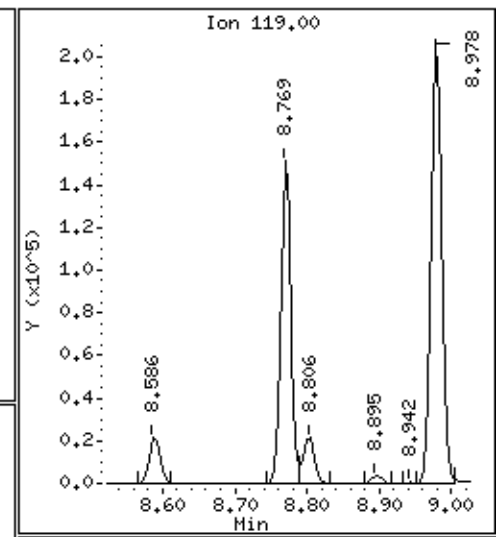
Concentration: 48.0 ppb

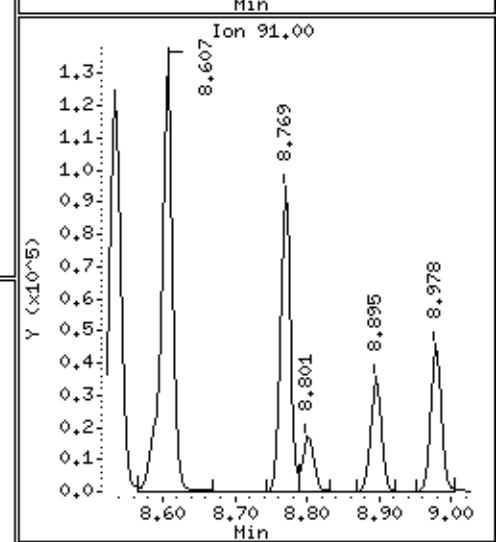


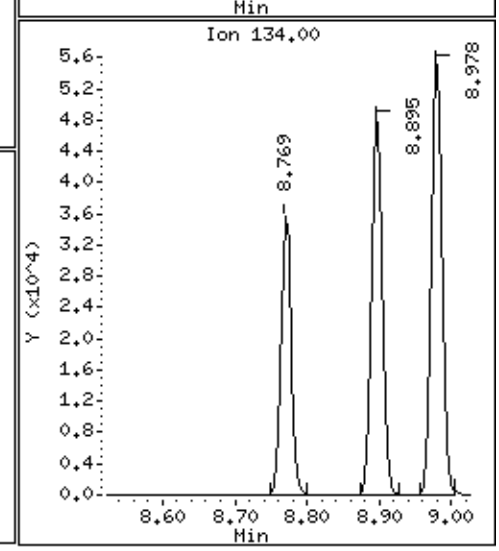












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

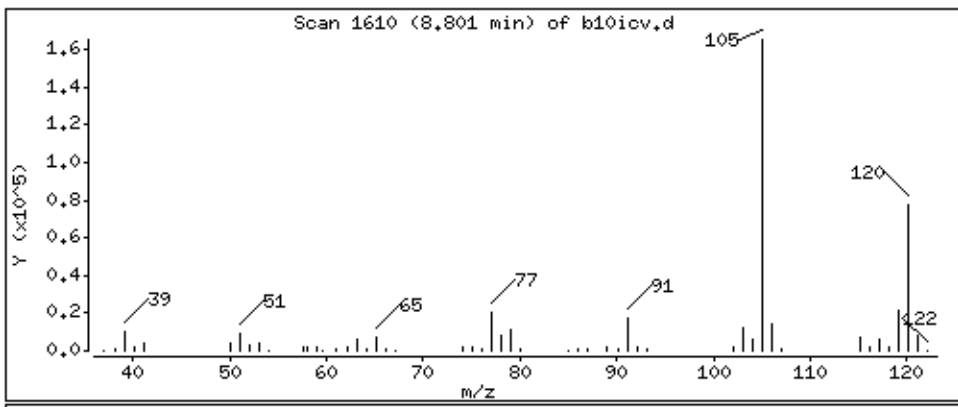
Operator: TMW

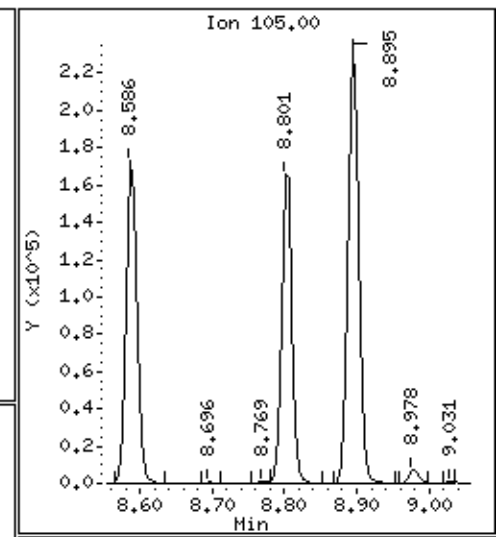
Column phase: DB-624

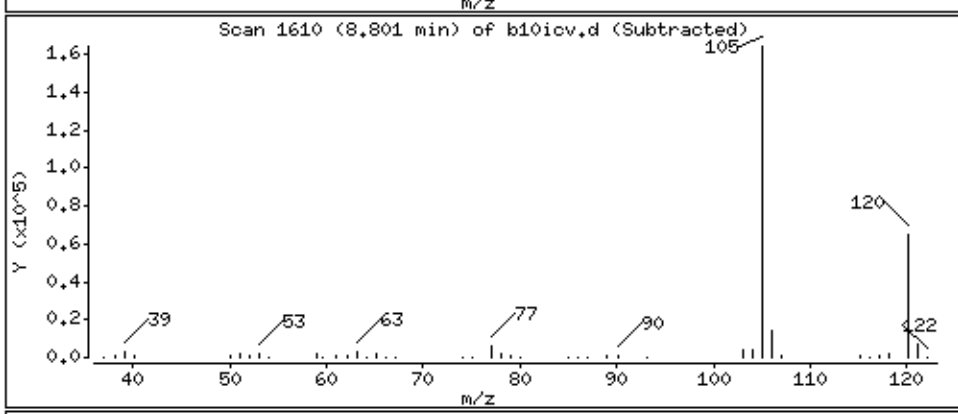
Column diameter: 0.18

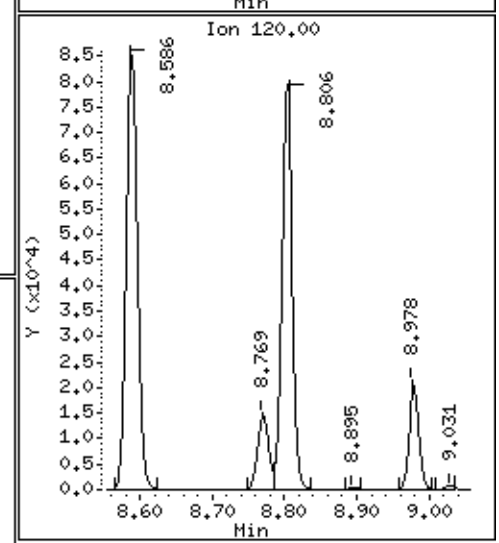
85 1,2,4-Trimethylbenzene

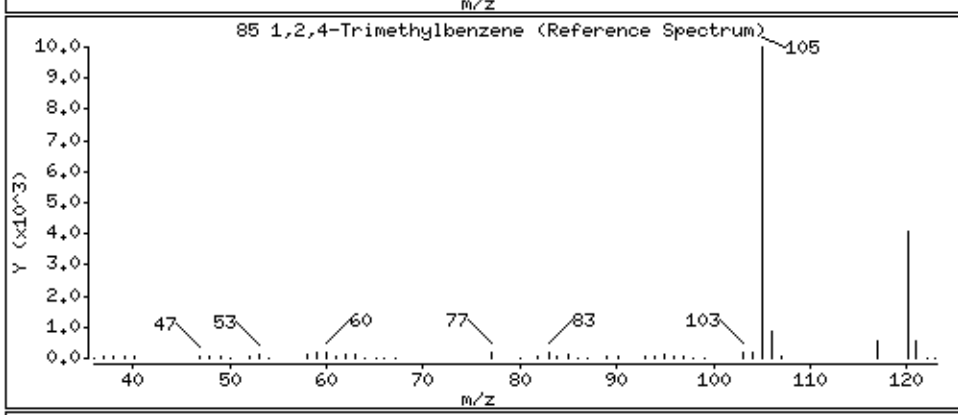
Concentration: 47.8 ppb

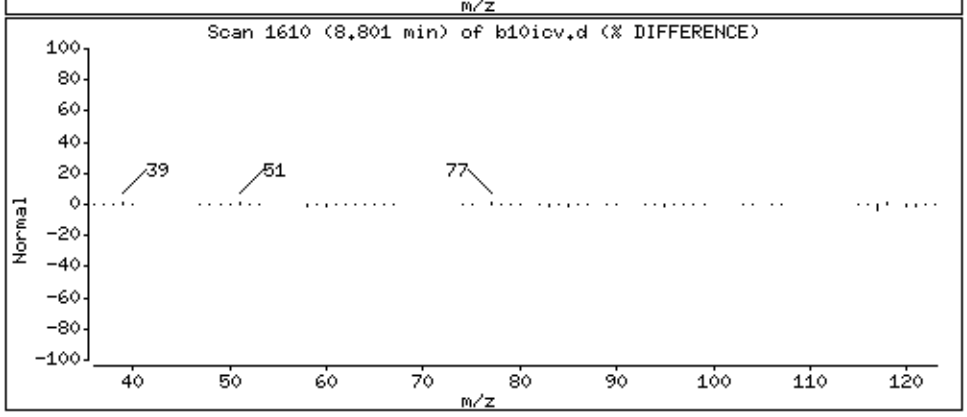












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

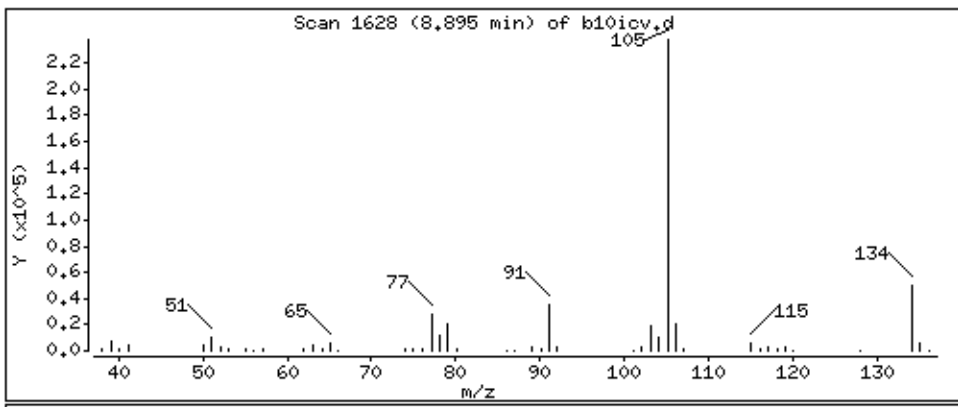
Operator: TMW

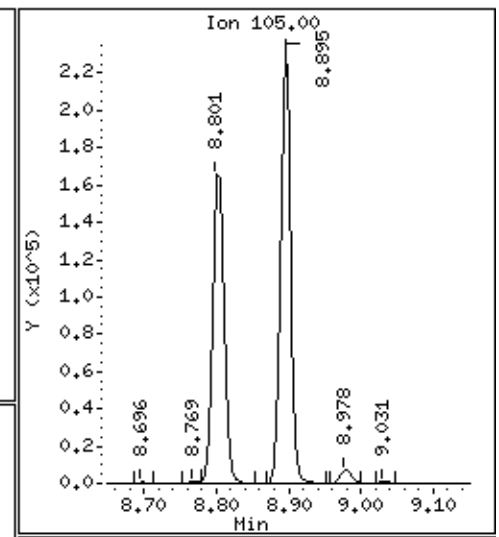
Column phase: DB-624

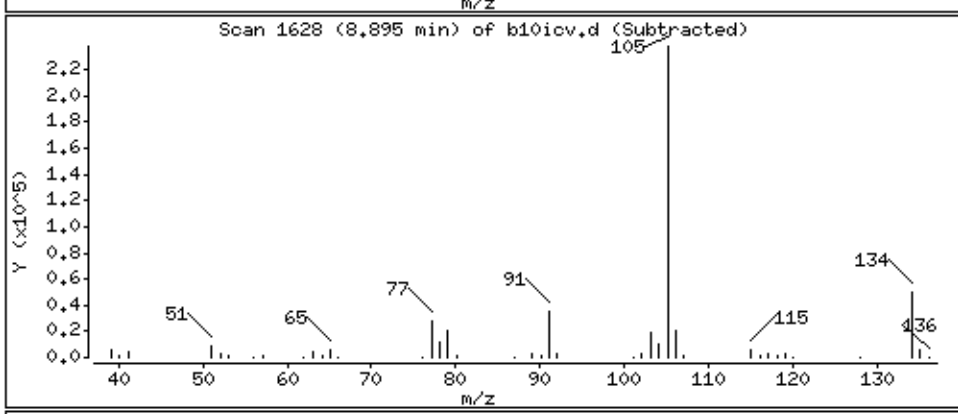
Column diameter: 0.18

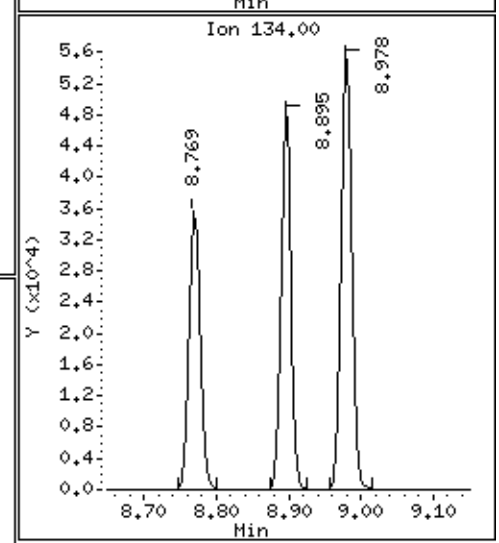
86 sec-Butylbenzene

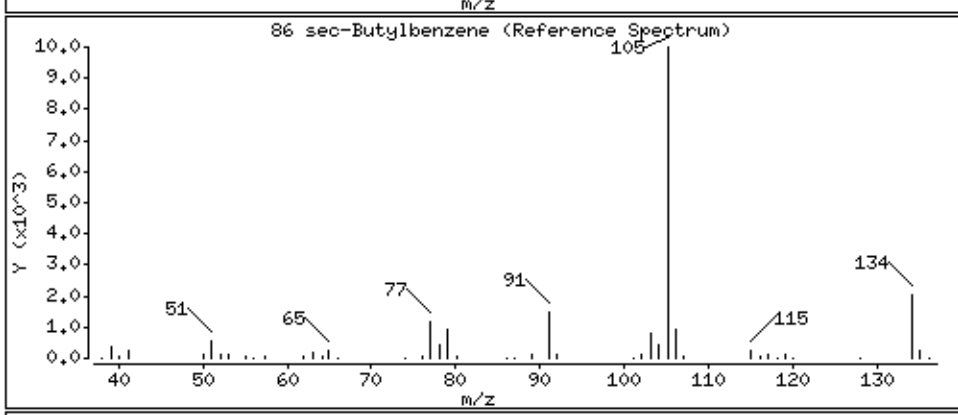
Concentration: 47.0 ppb

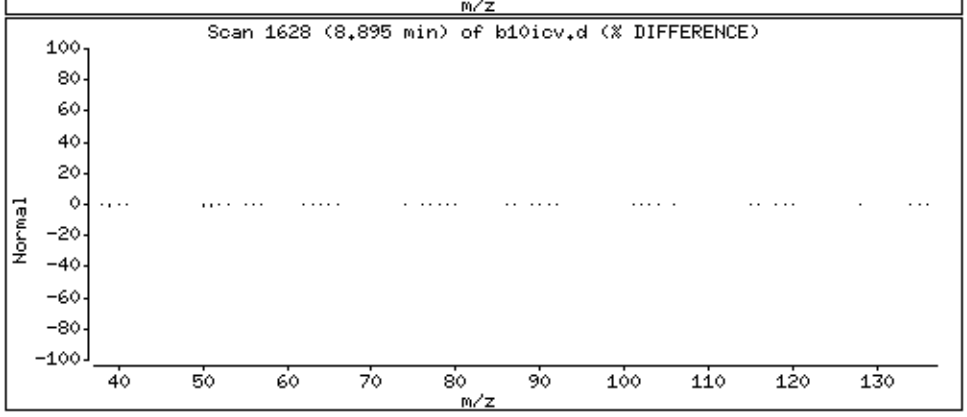












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

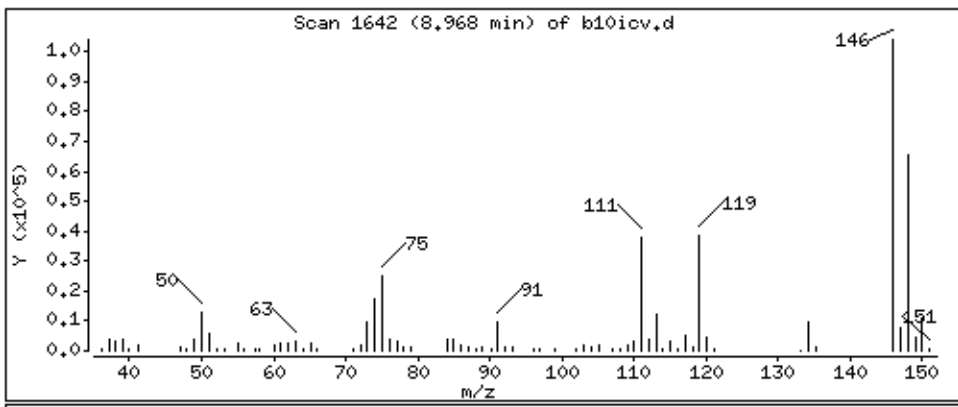
Operator: TMW

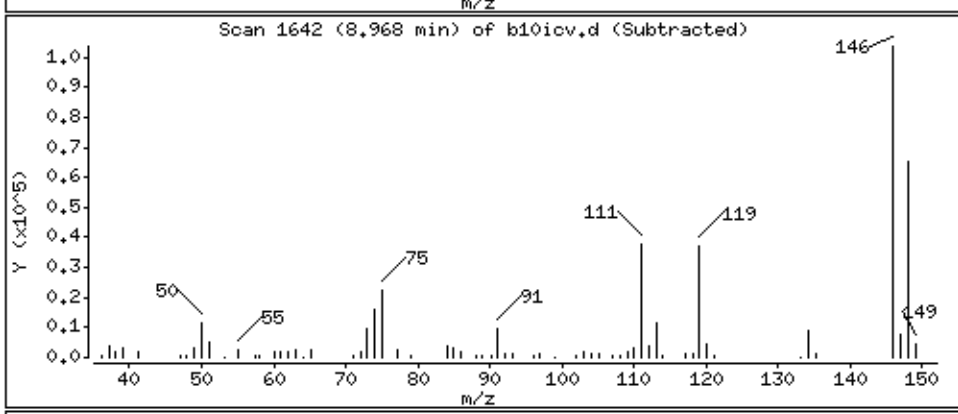
Column phase: DB-624

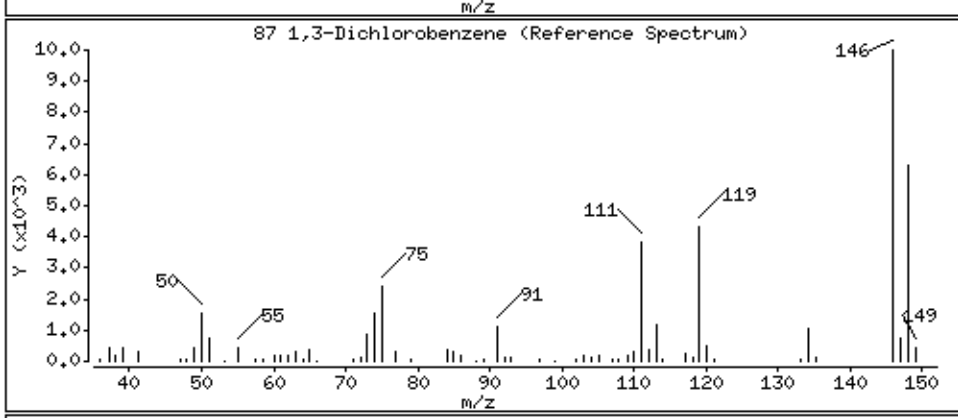
Column diameter: 0.18

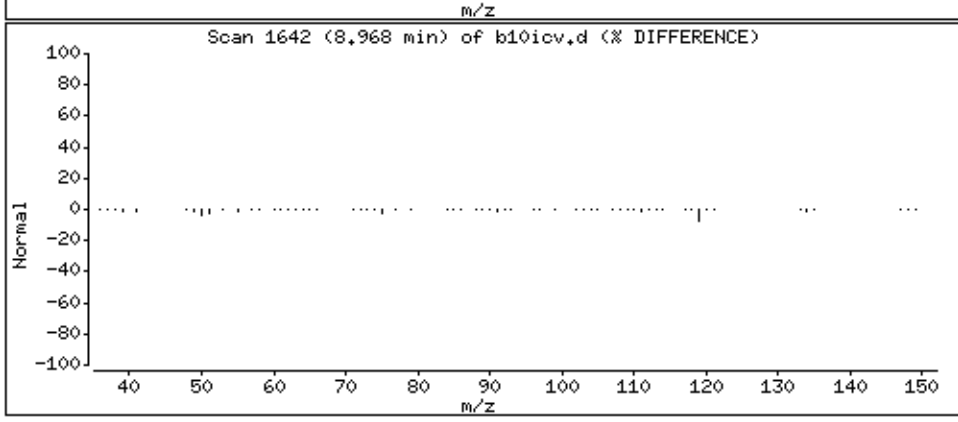
87 1,3-Dichlorobenzene

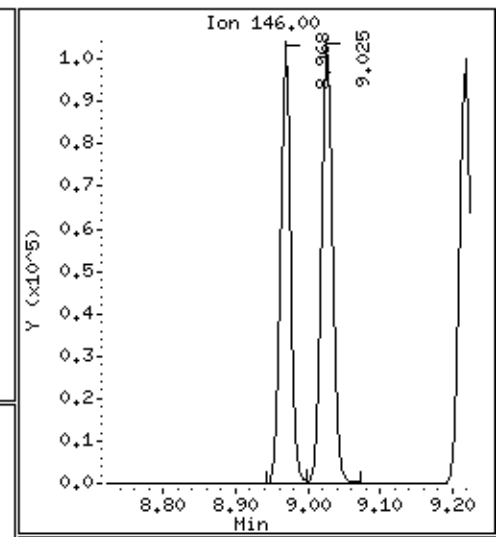
Concentration: 47.4 ppb

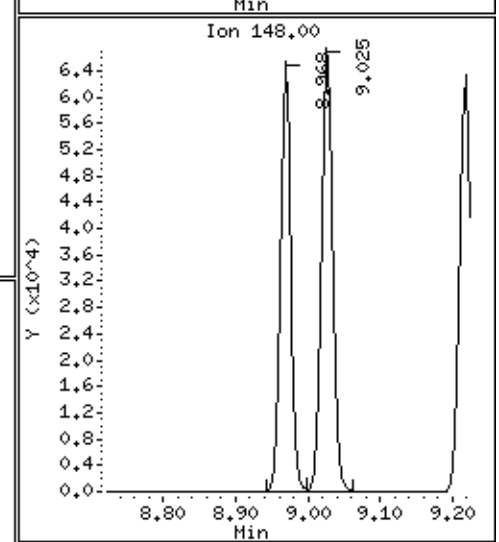


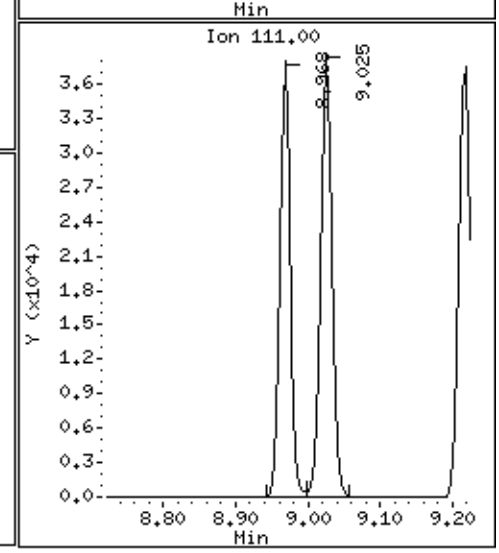












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

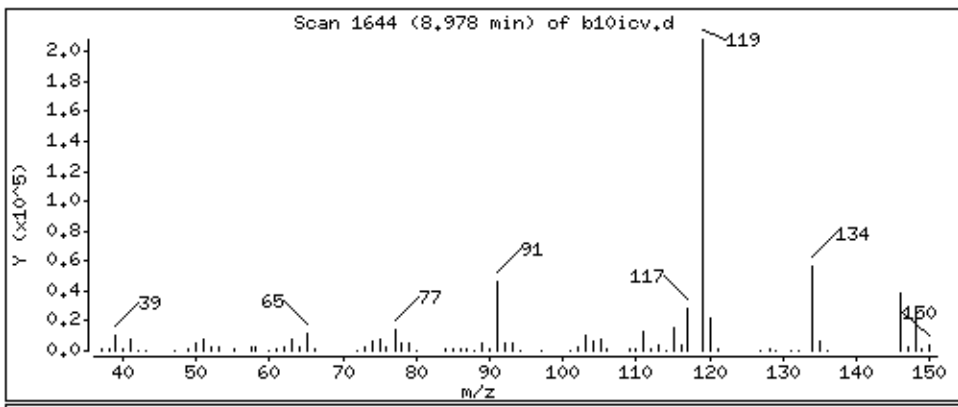
Operator: TMW

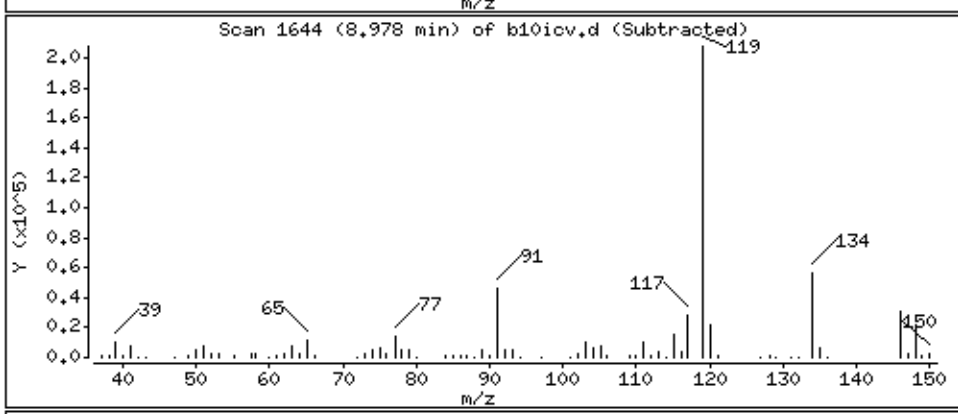
Column phase: DB-624

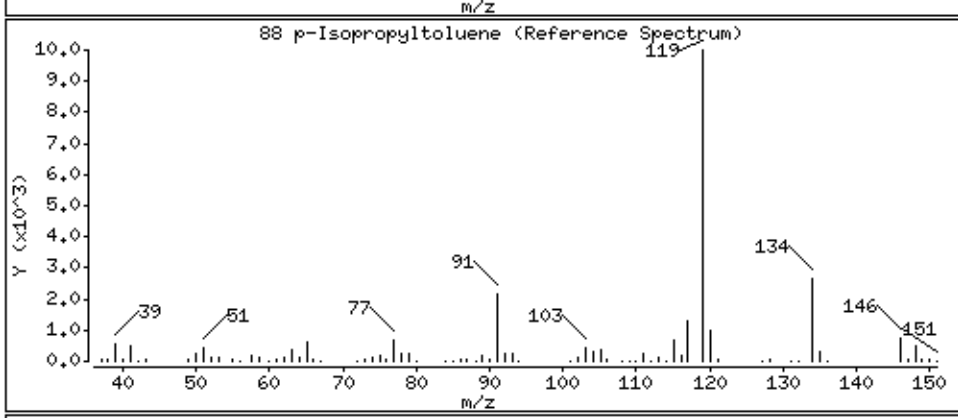
Column diameter: 0.18

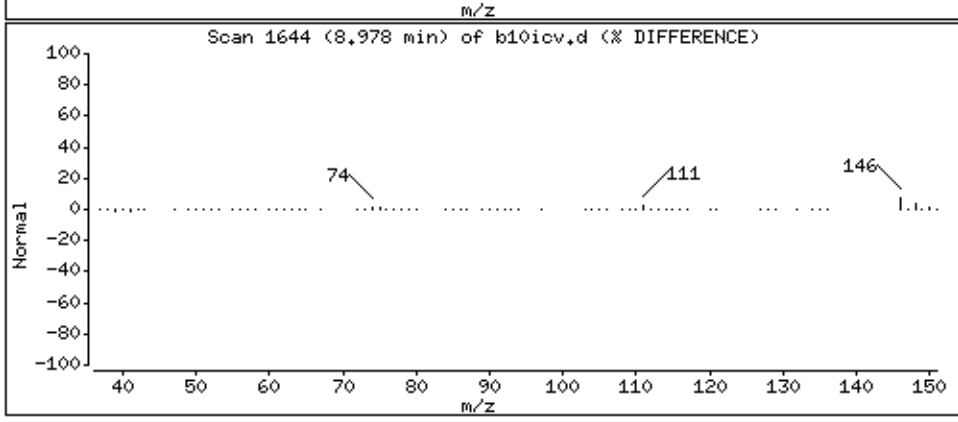
88 p-Isopropyltoluene

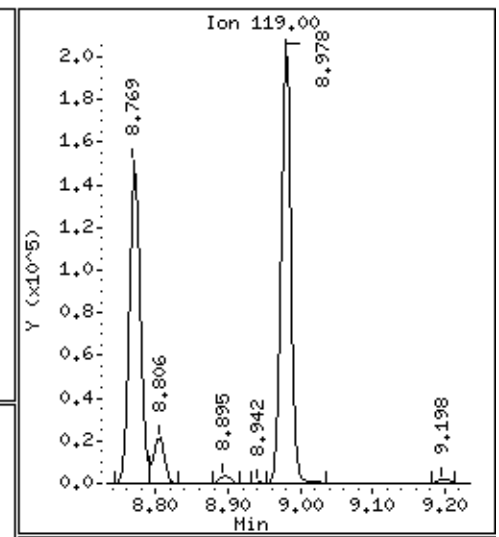
Concentration: 50.1 ppb

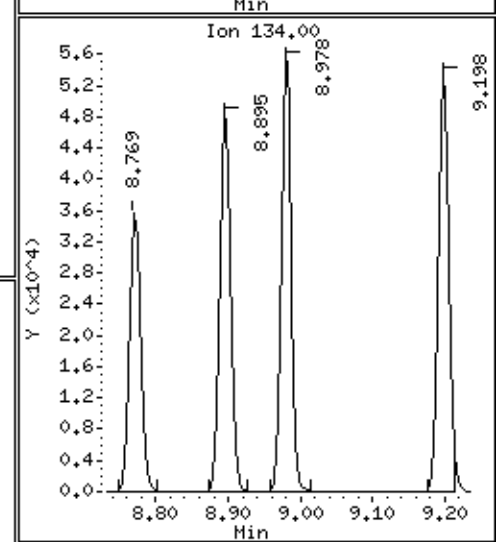


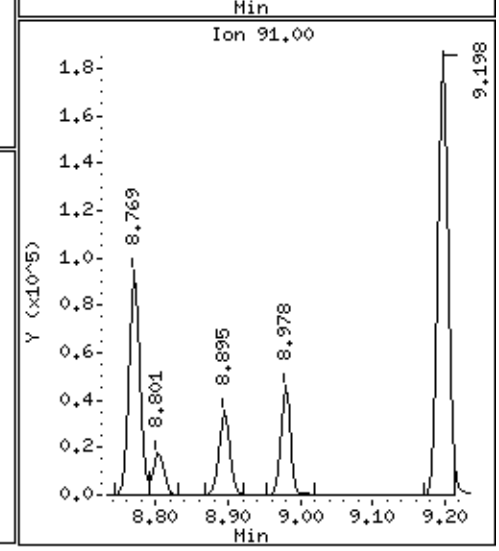












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

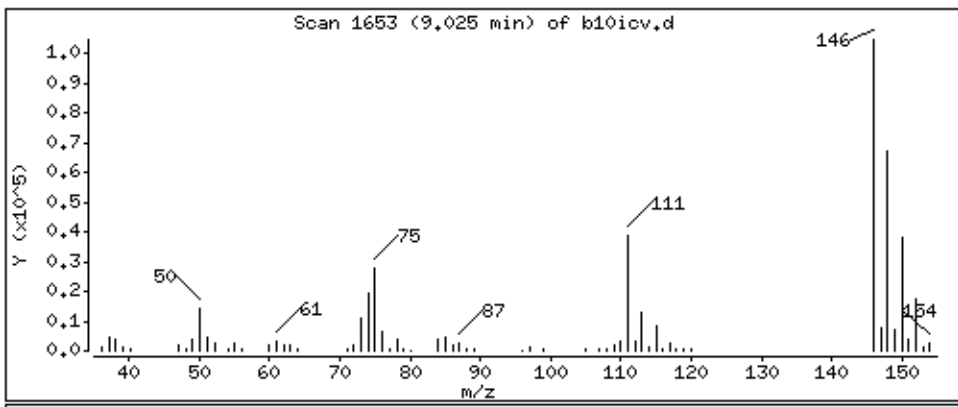
Operator: TMW

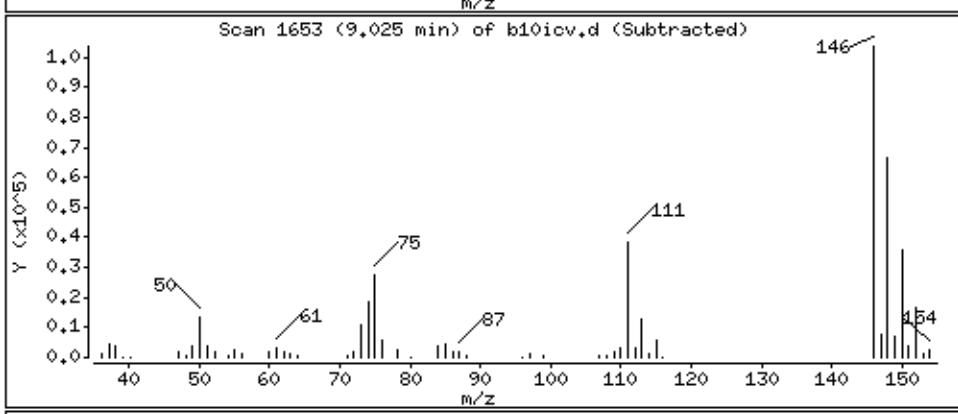
Column phase: DB-624

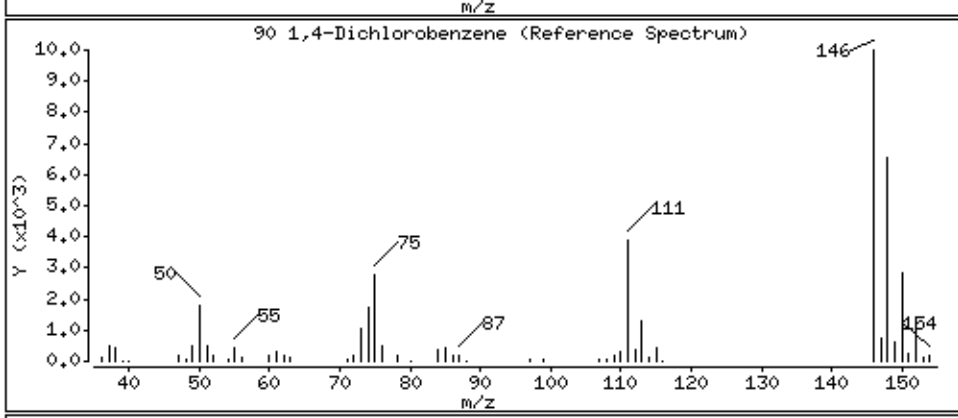
Column diameter: 0.18

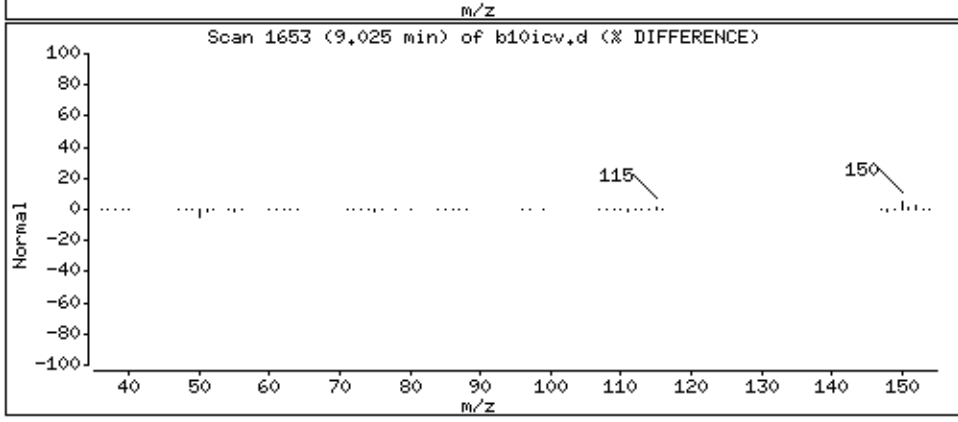
90 1,4-Dichlorobenzene

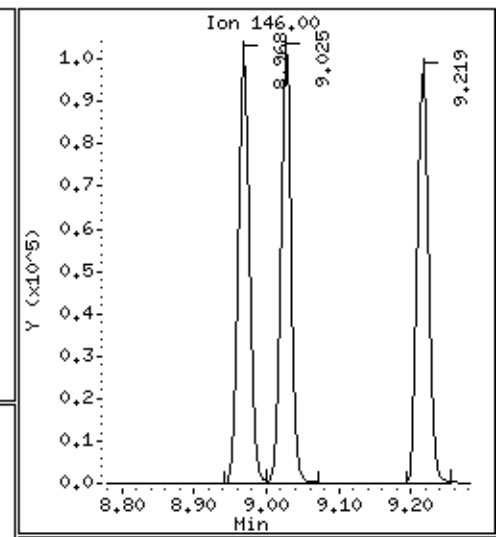
Concentration: 47.2 ppb

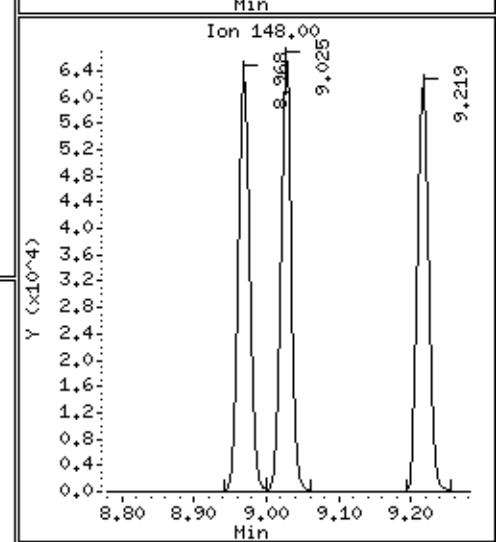


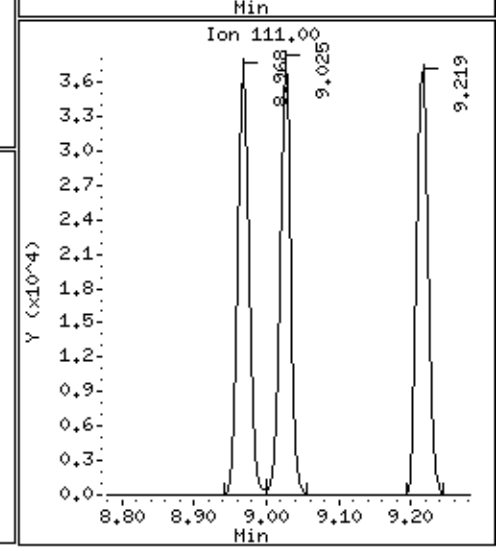












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

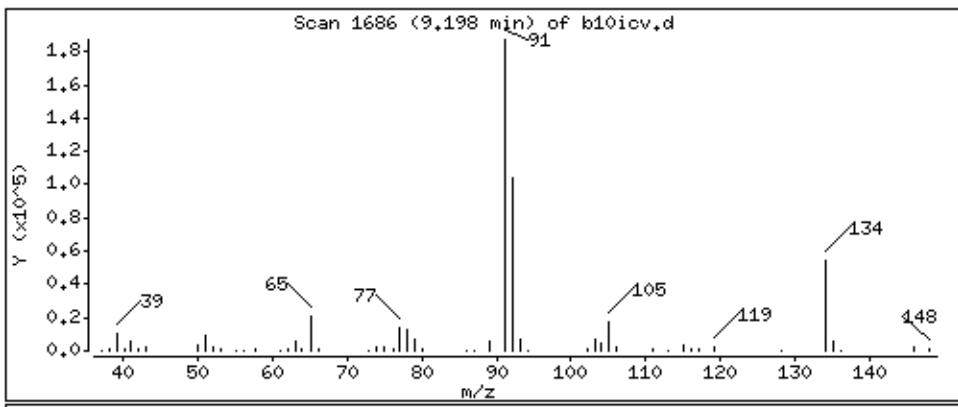
Operator: TMW

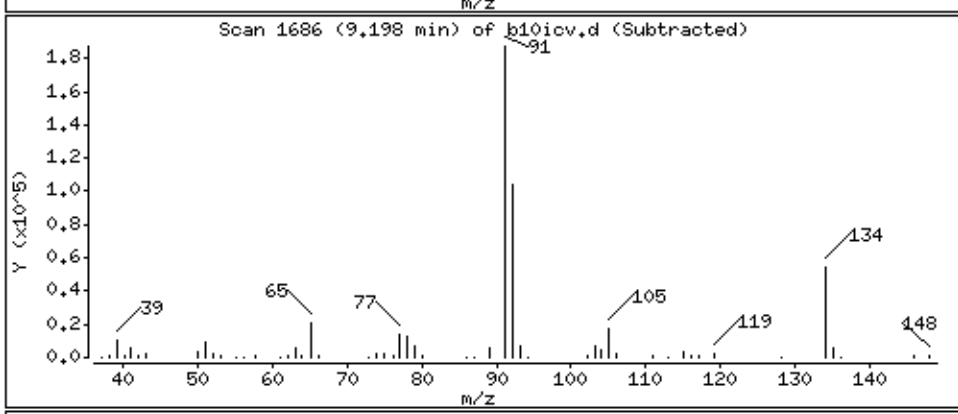
Column phase: DB-624

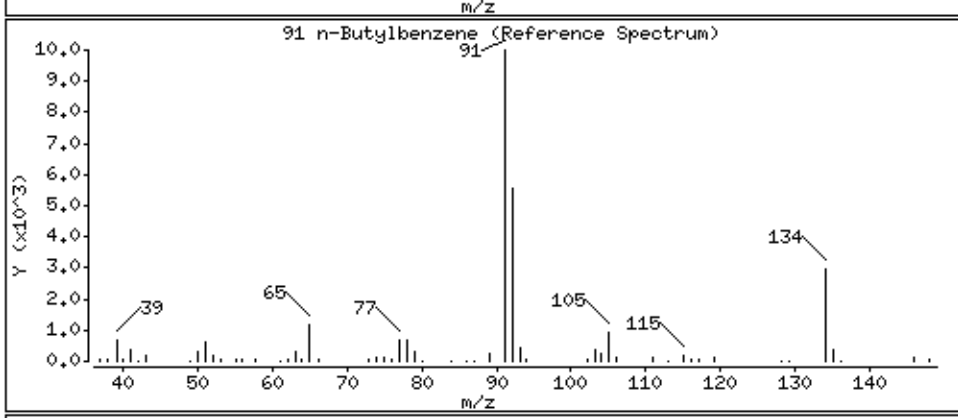
Column diameter: 0.18

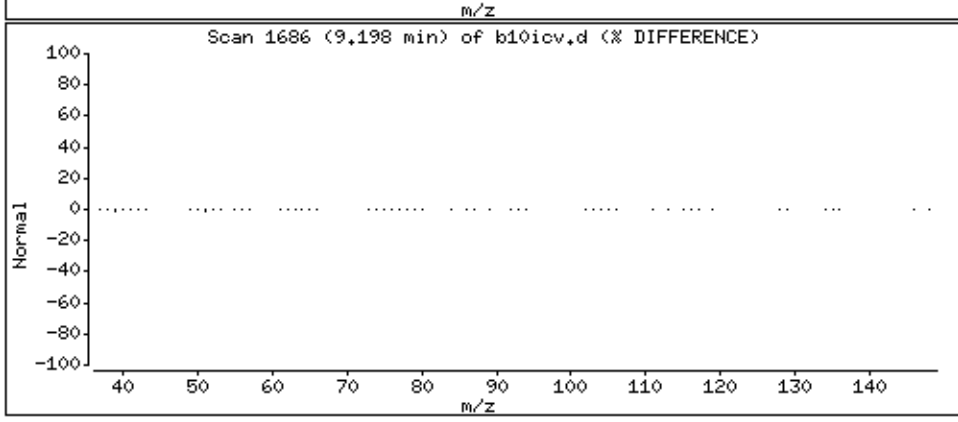
91 n-Butylbenzene

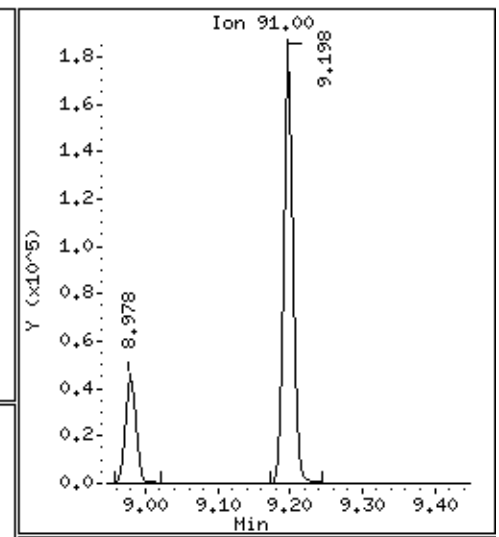
Concentration: 49.3 ppb

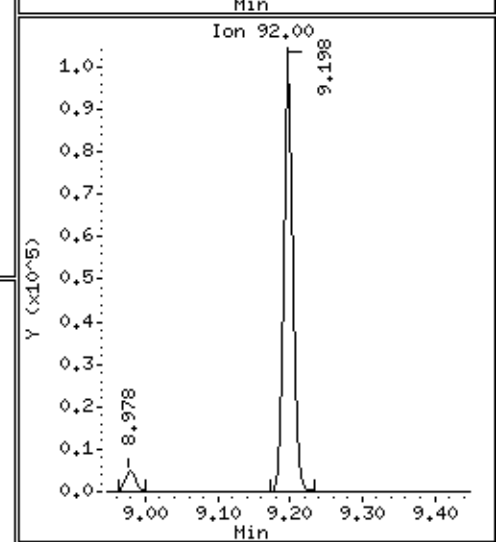


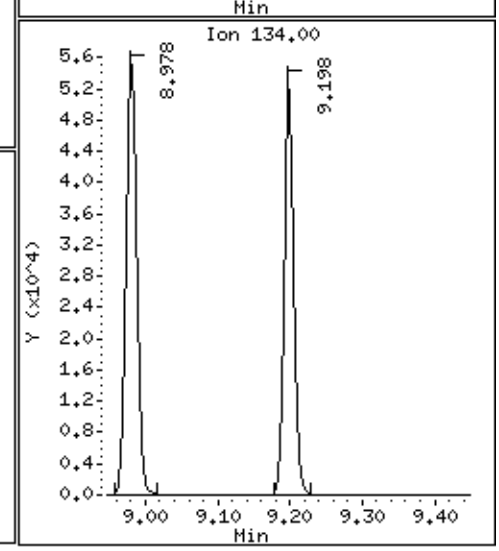












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

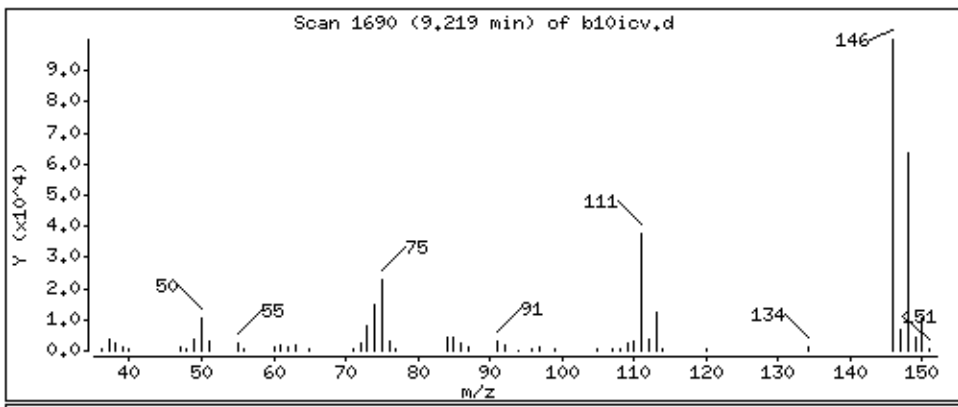
Operator: TMW

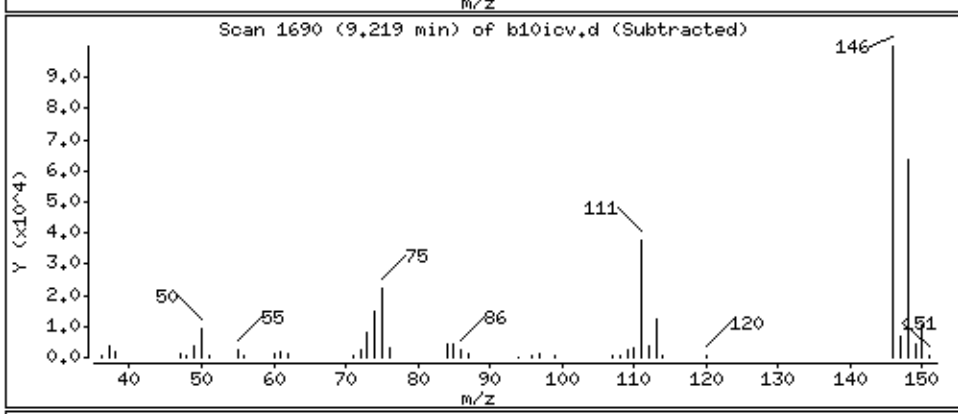
Column phase: DB-624

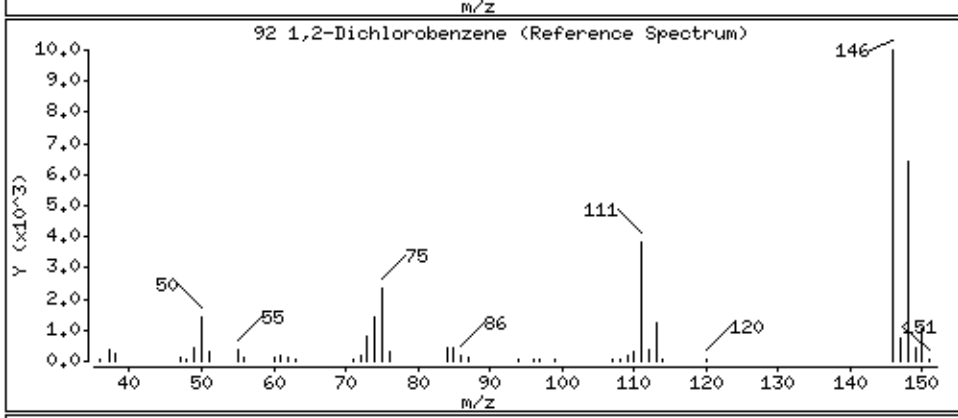
Column diameter: 0.18

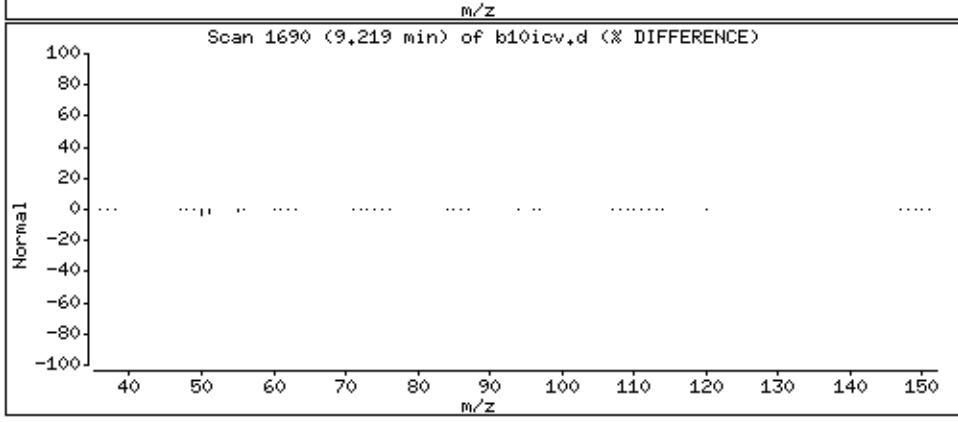
92 1,2-Dichlorobenzene

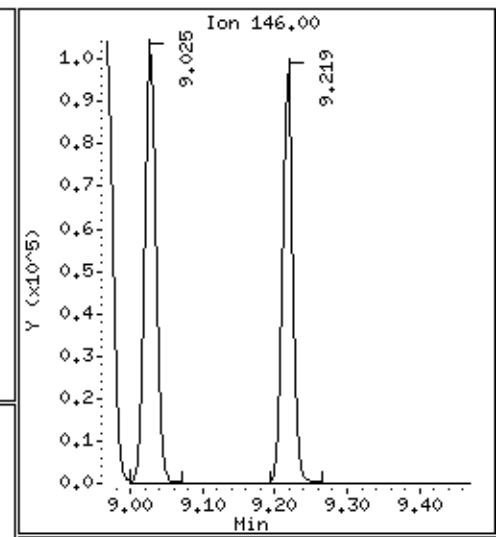
Concentration: 48.8 ppb

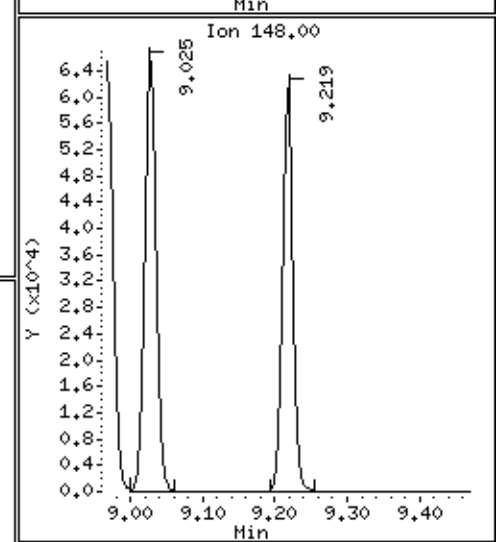


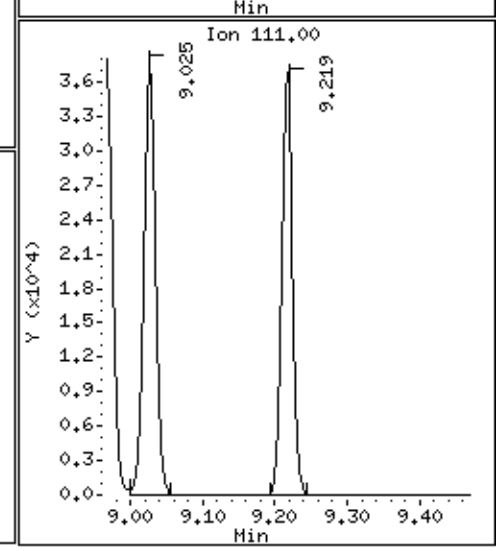












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

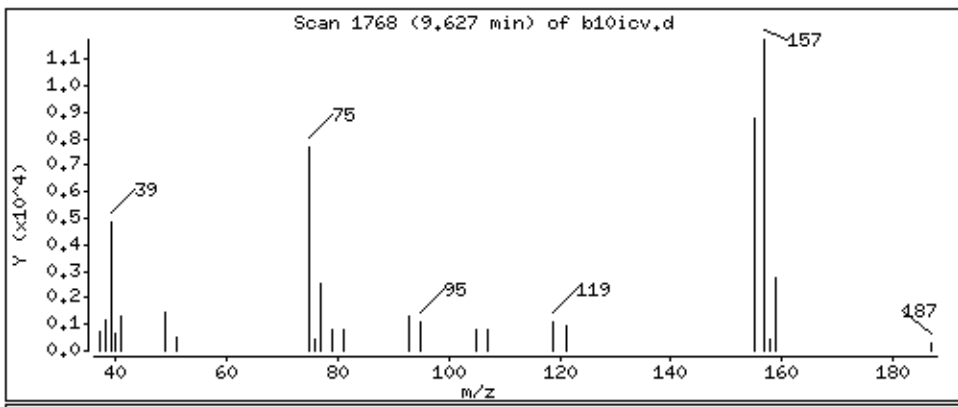
Operator: TMW

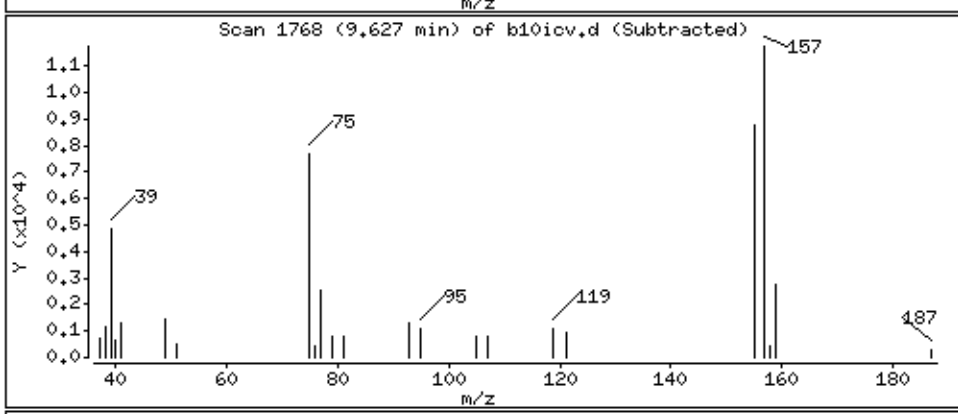
Column phase: DB-624

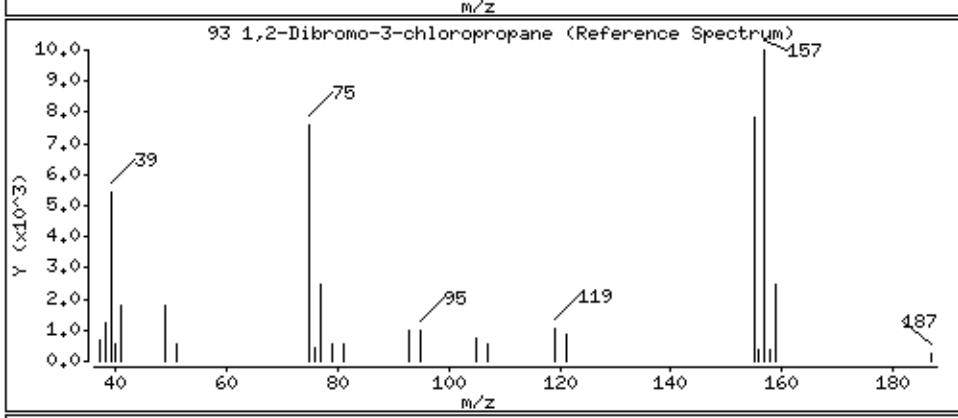
Column diameter: 0.18

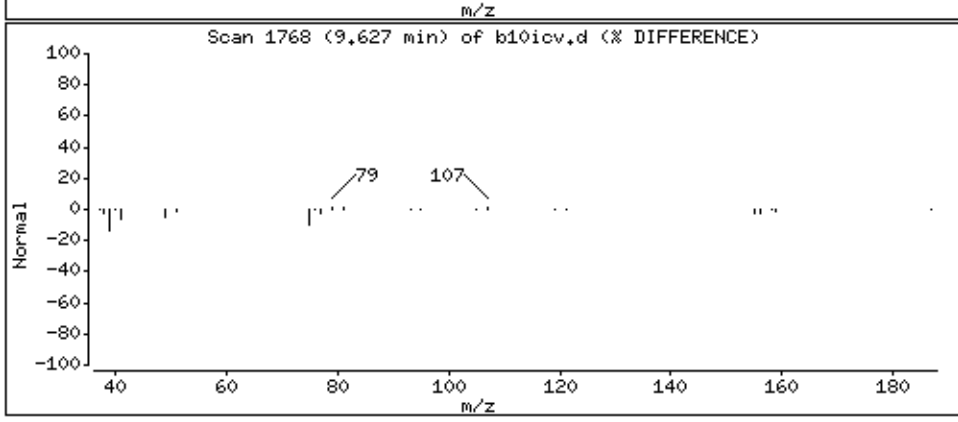
93 1,2-Dibromo-3-chloropropane

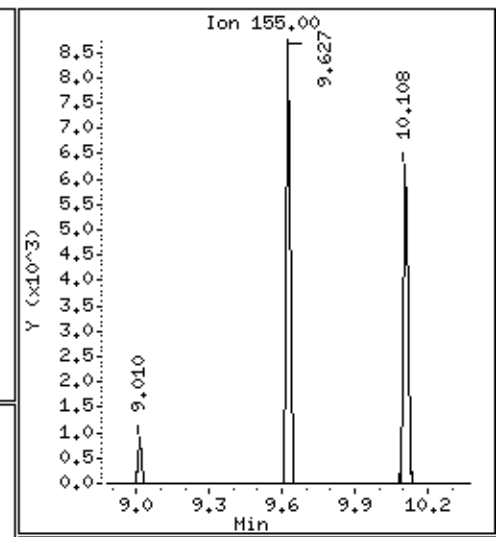
Concentration: 49.0 ppb

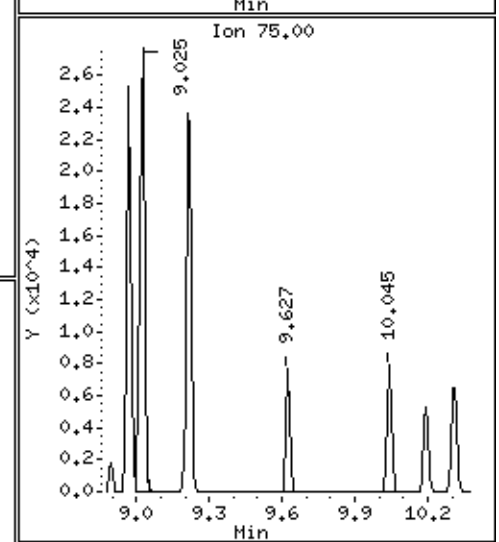


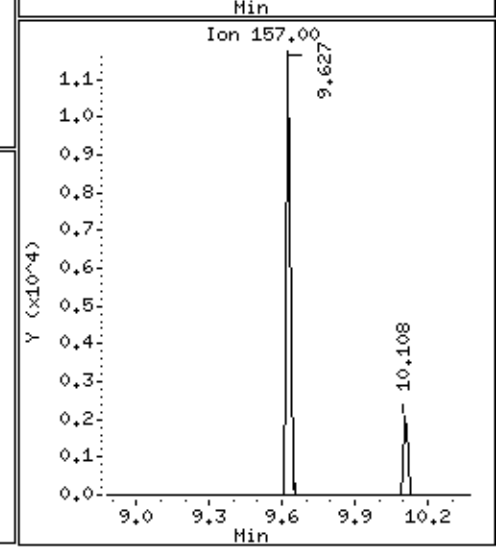












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

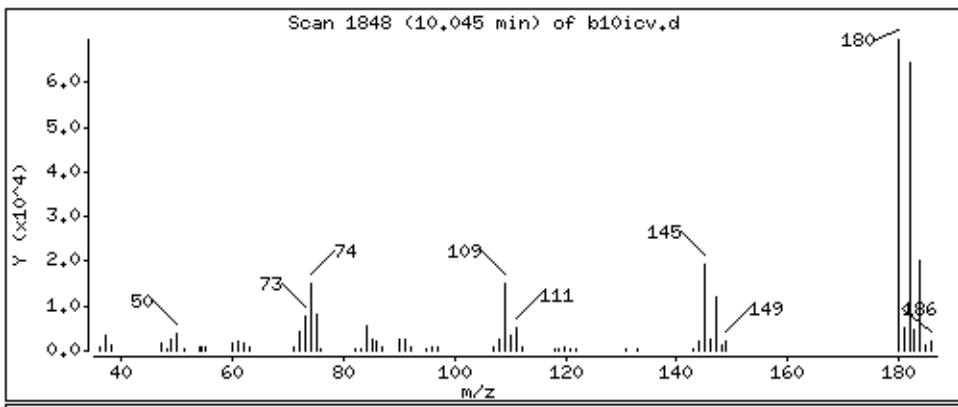
Operator: TMW

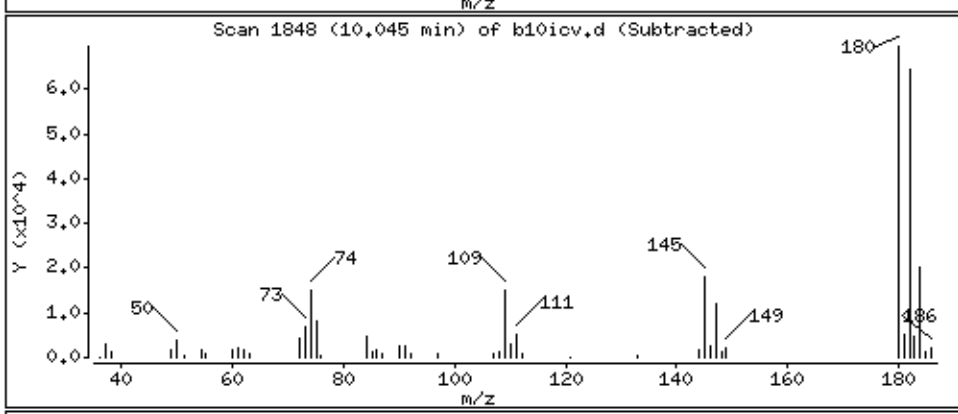
Column phase: DB-624

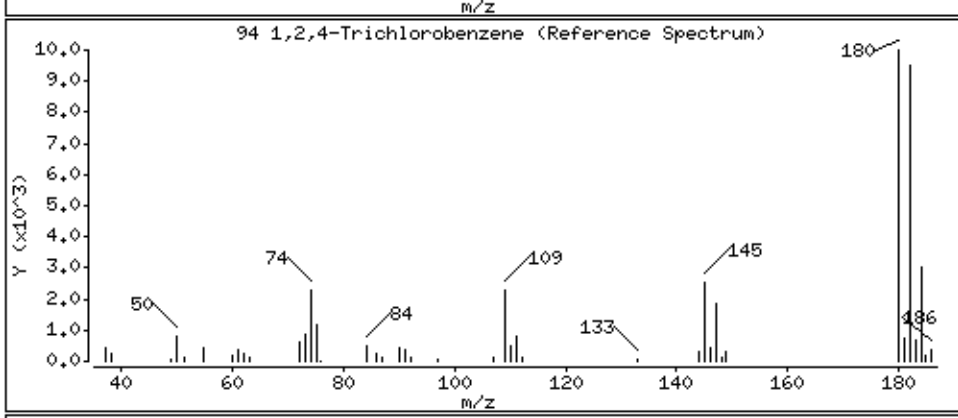
Column diameter: 0.18

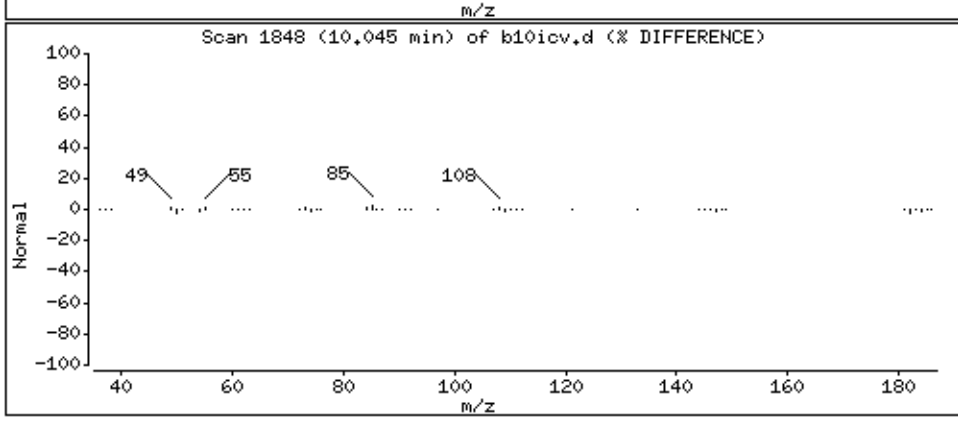
94 1,2,4-Trichlorobenzene

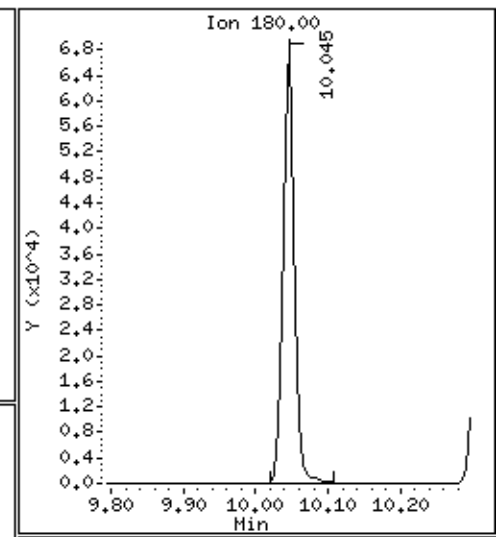
Concentration: 48.8 ppb

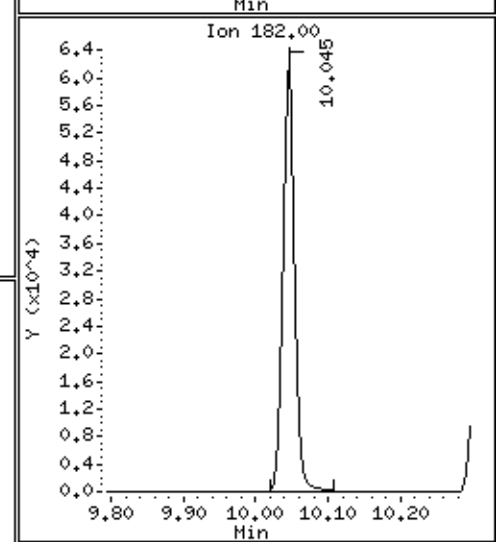


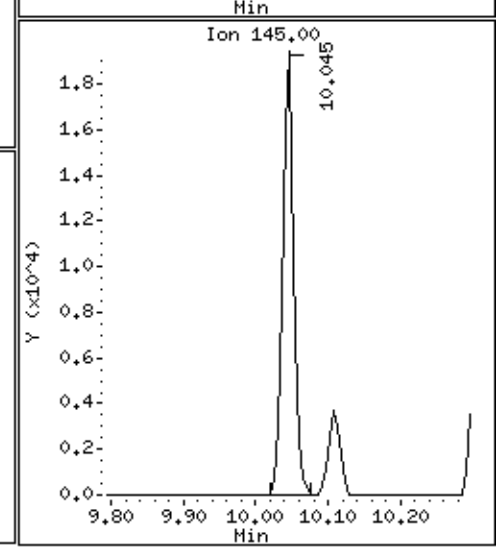












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

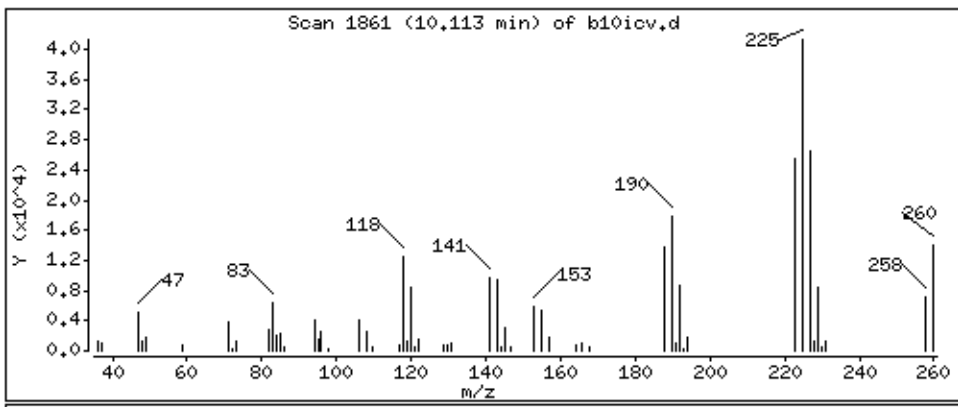
Operator: TMW

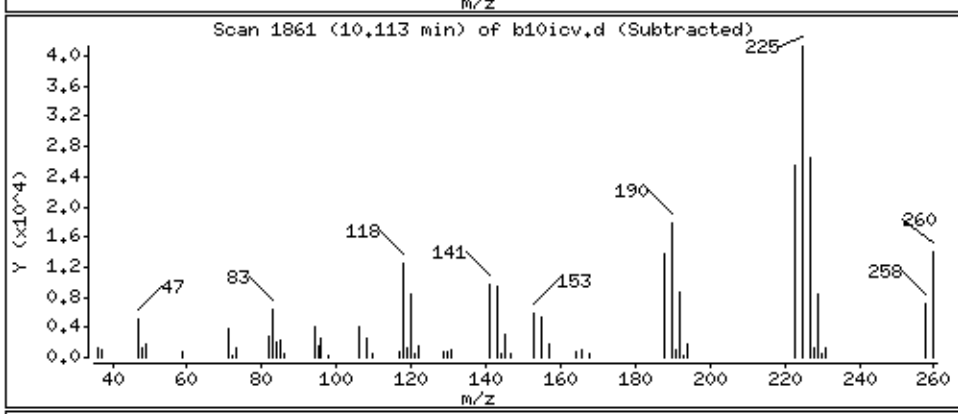
Column phase: DB-624

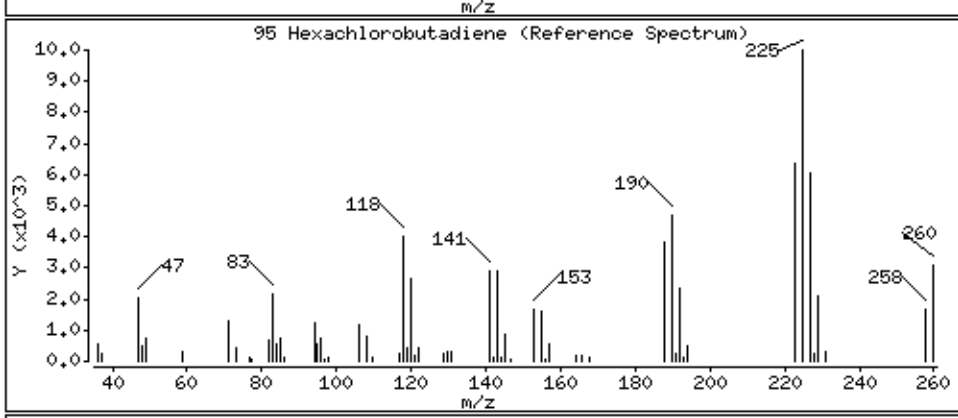
Column diameter: 0.18

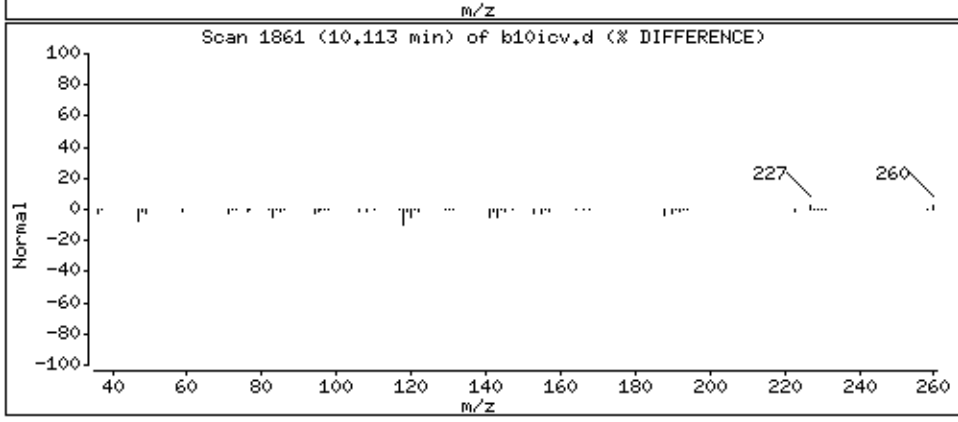
95 Hexachlorobutadiene

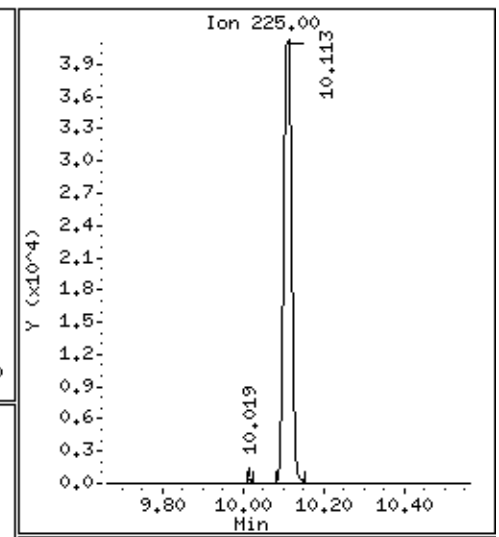
Concentration: 50.6 ppb

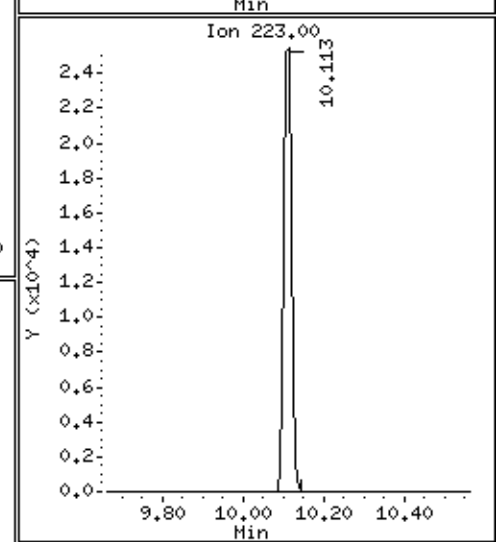


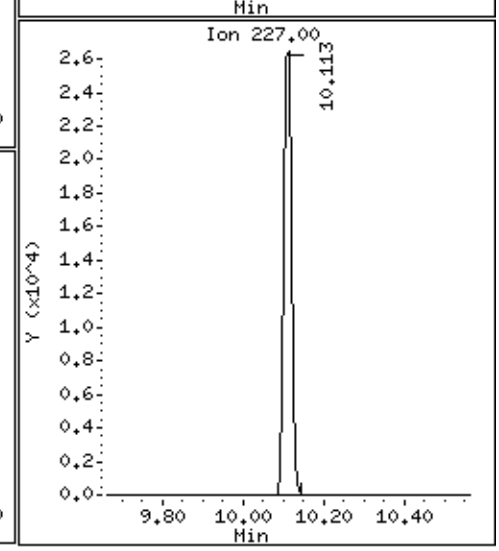












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

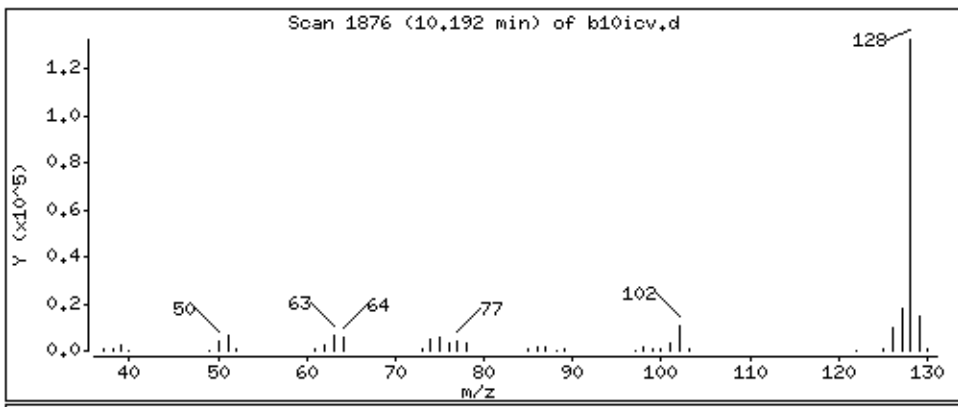
Operator: TMW

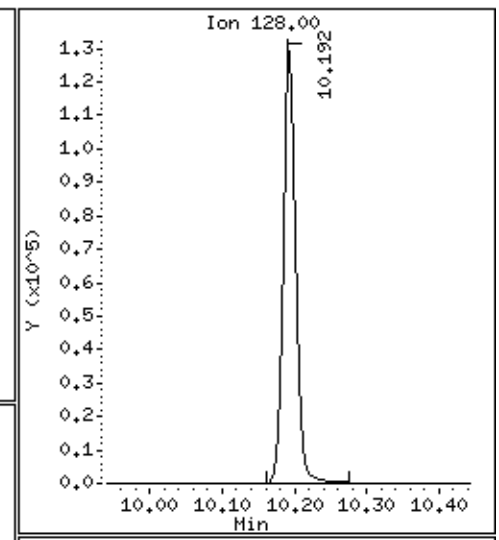
Column phase: DB-624

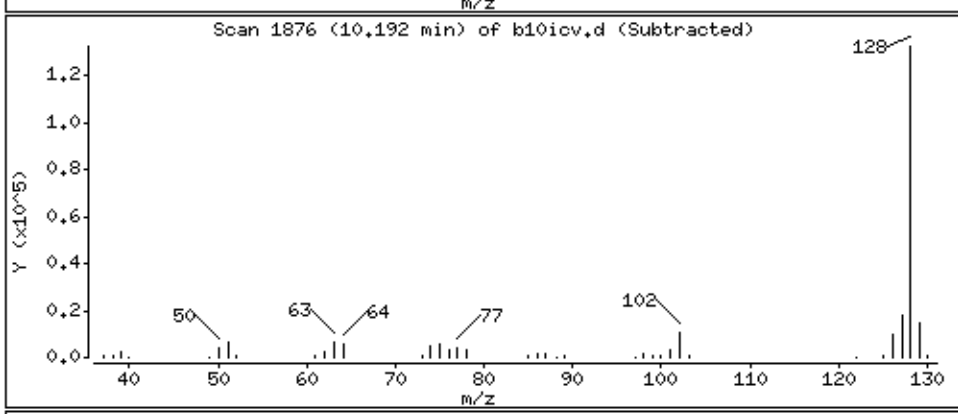
Column diameter: 0.18

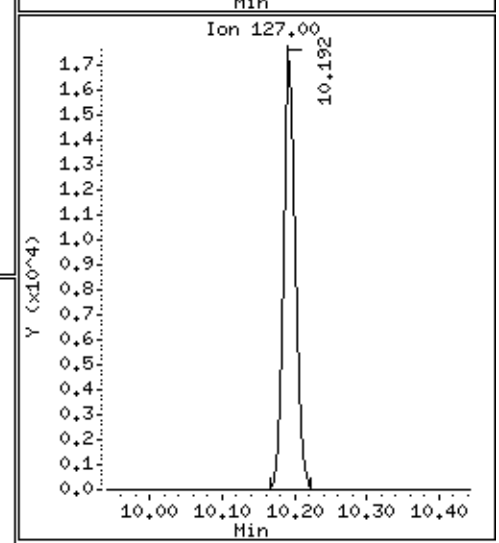
96 Naphthalene

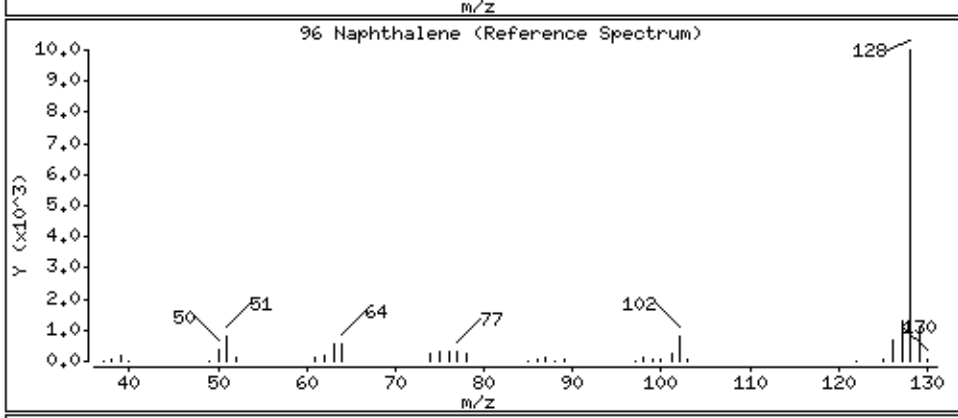
Concentration: 45.0 ppb

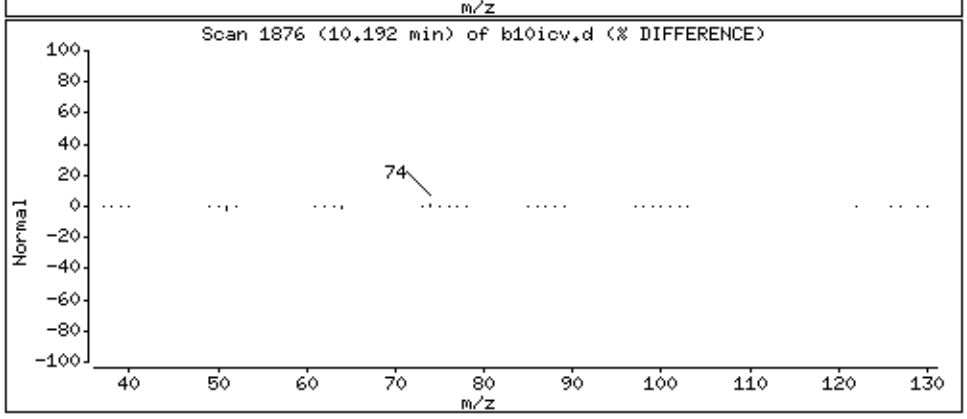












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

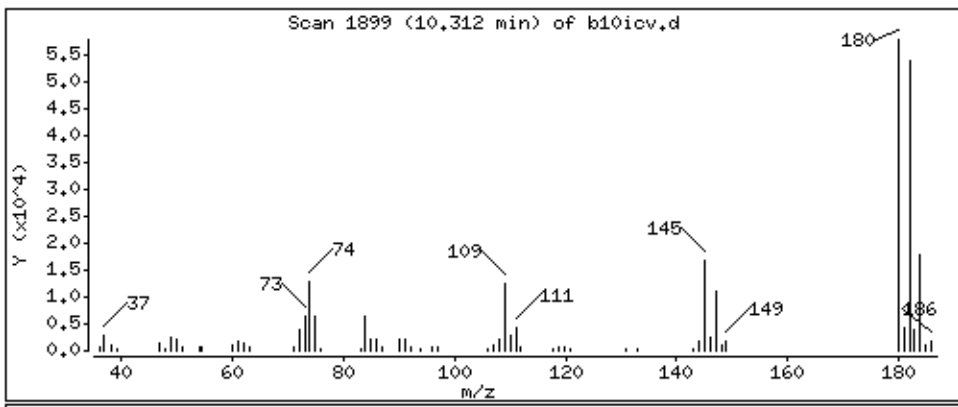
Operator: TMW

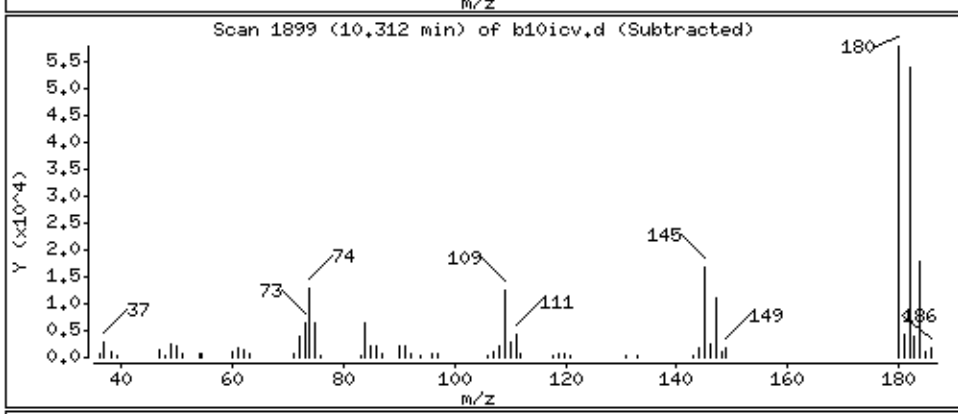
Column phase: DB-624

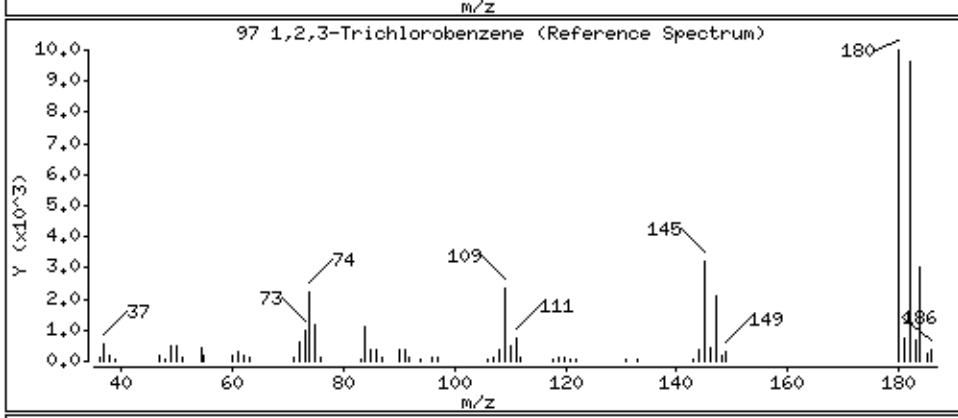
Column diameter: 0.18

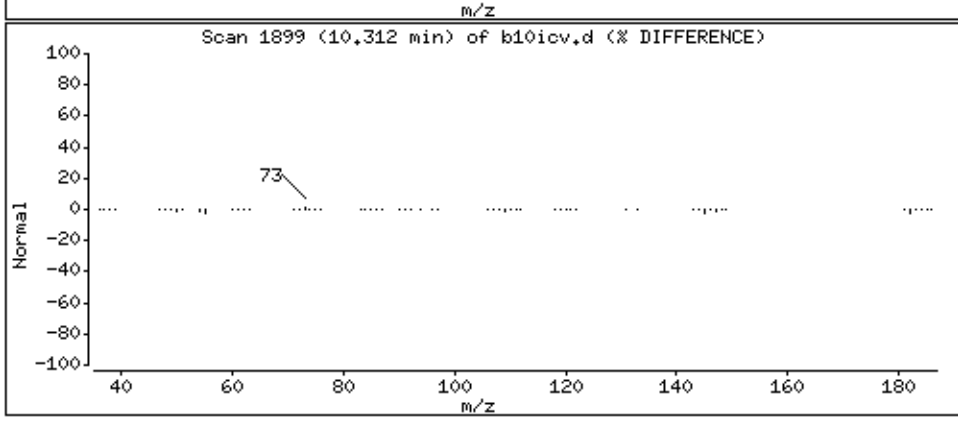
97 1,2,3-Trichlorobenzene

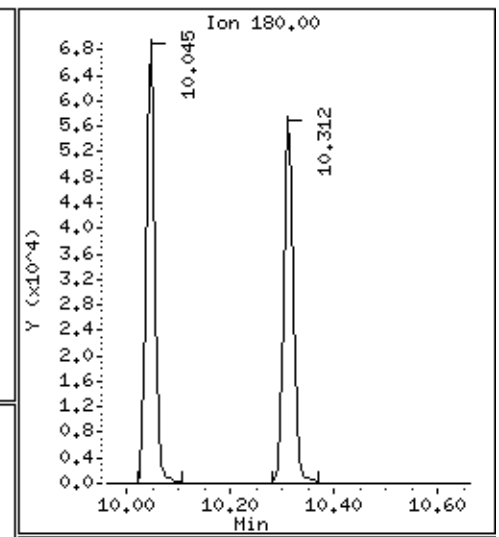
Concentration: 47.9 ppb

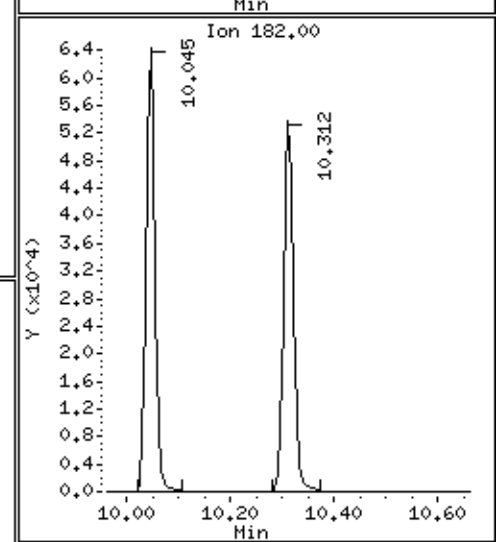


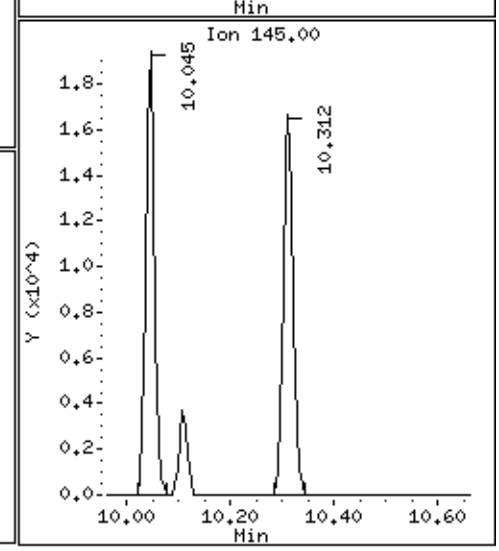












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

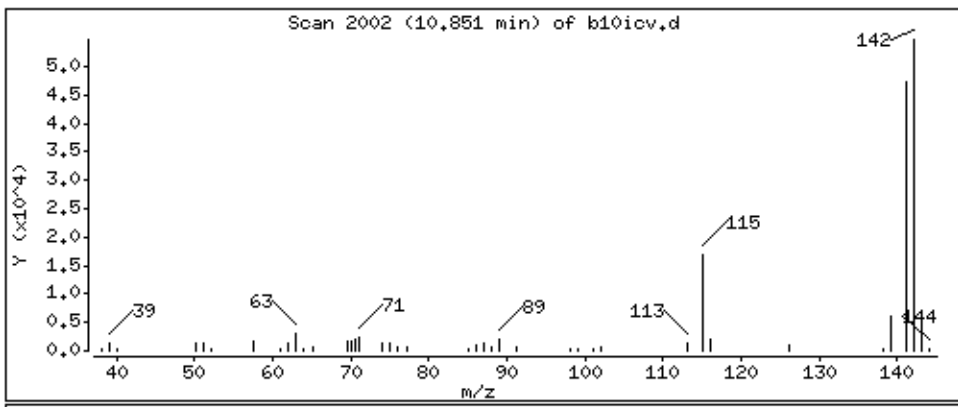
Operator: TMW

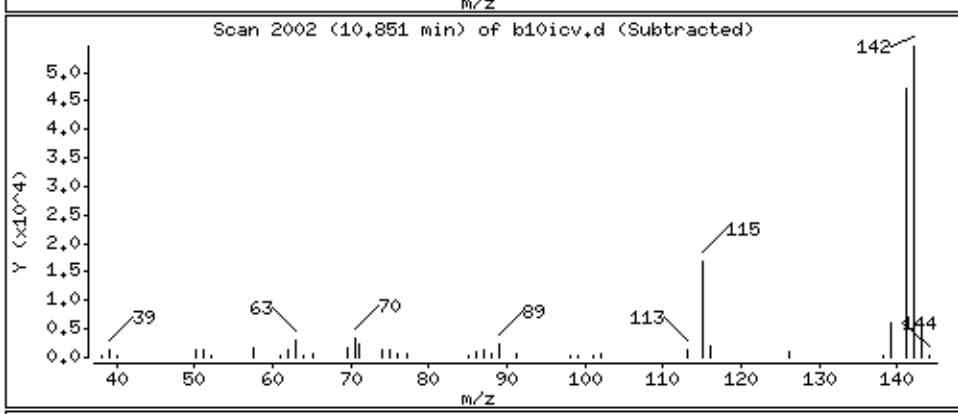
Column phase: DB-624

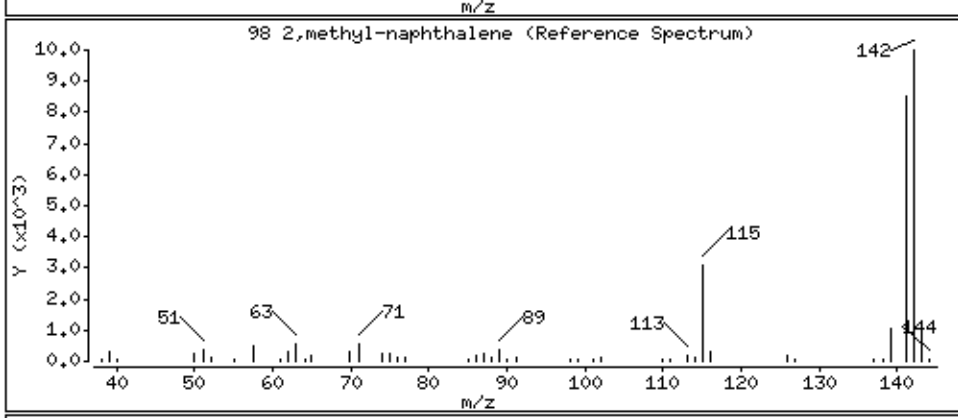
Column diameter: 0.18

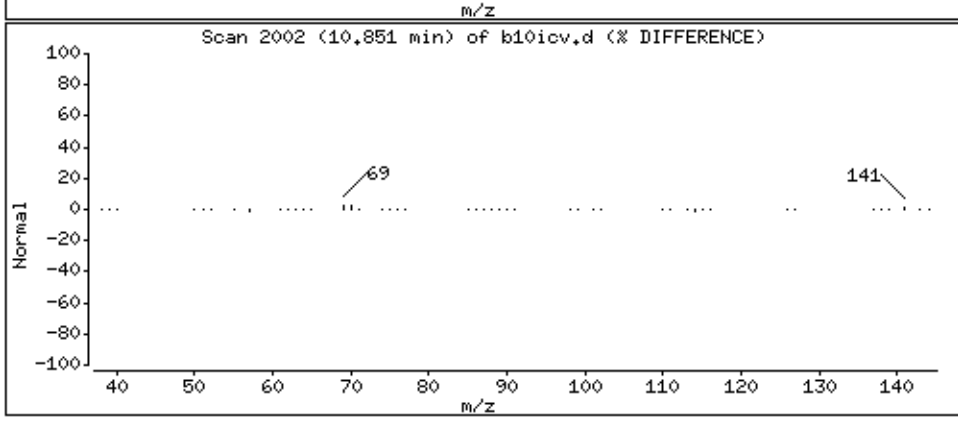
98 2,methyl-naphthalene

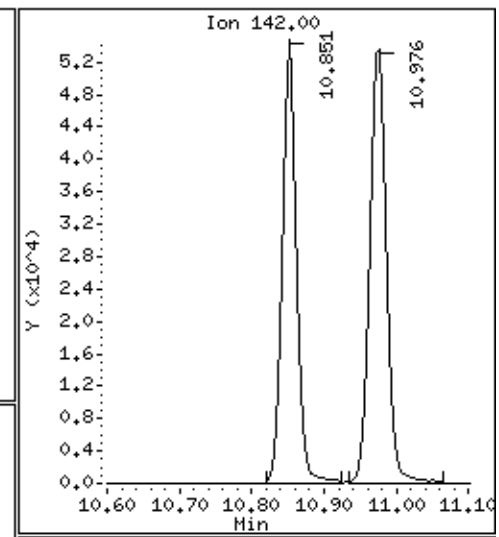
Concentration: 44.0 ppb

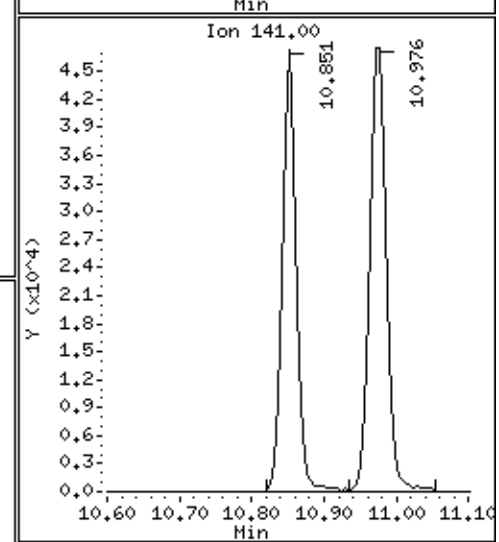


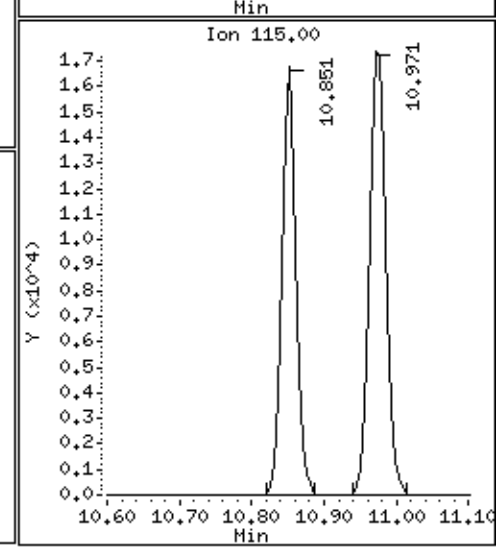












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b10icv.d

Date : 04-JAN-2017 20:33

Client ID: 8260-ICV,139204:0

Instrument: 50mv5b.i

Sample Info: 8260-ICV,139204:0

Purge Volume: 5.0

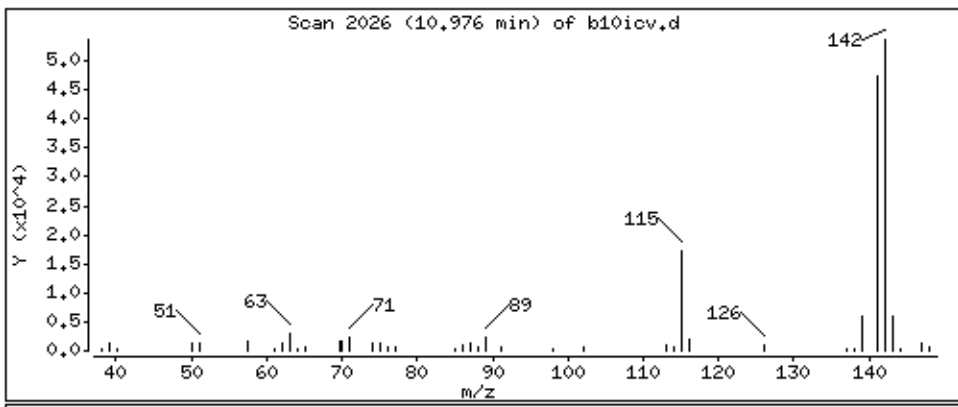
Operator: TMW

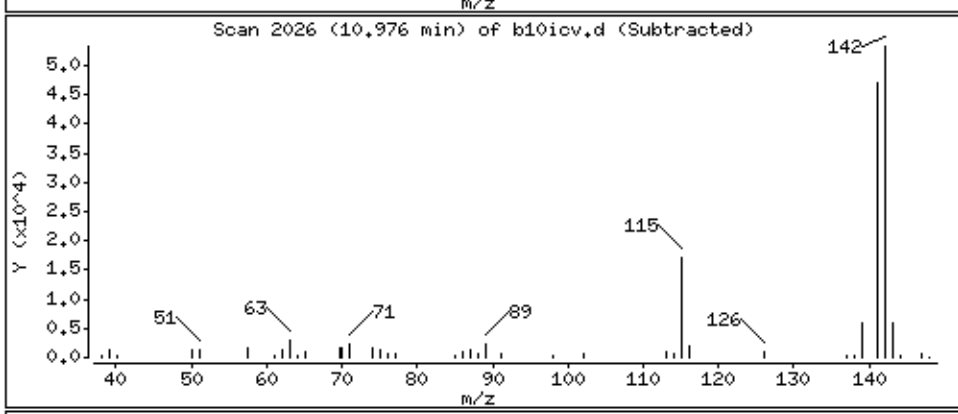
Column phase: DB-624

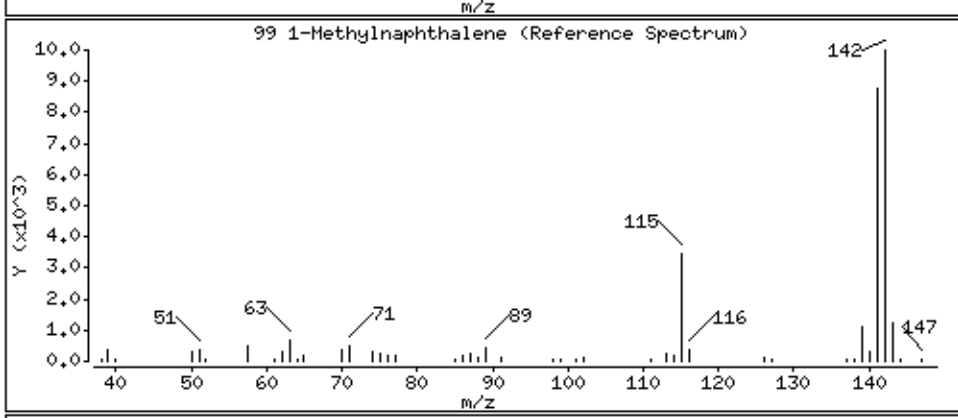
Column diameter: 0.18

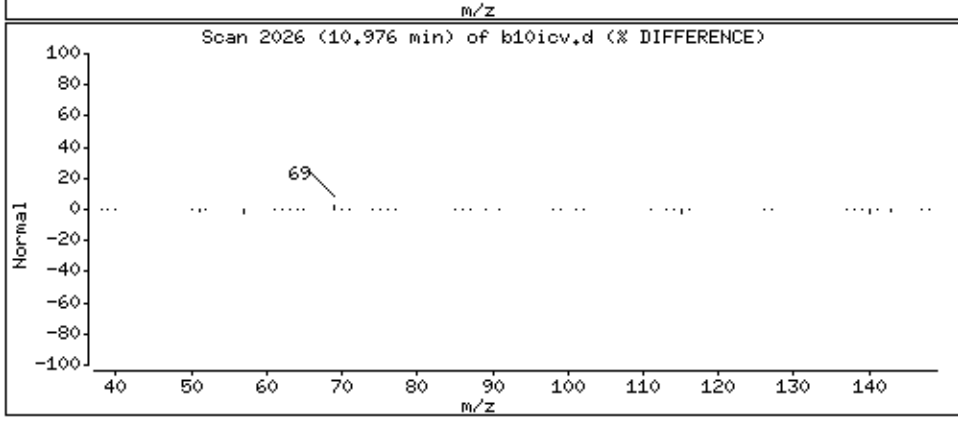
99 1-Methylnaphthalene

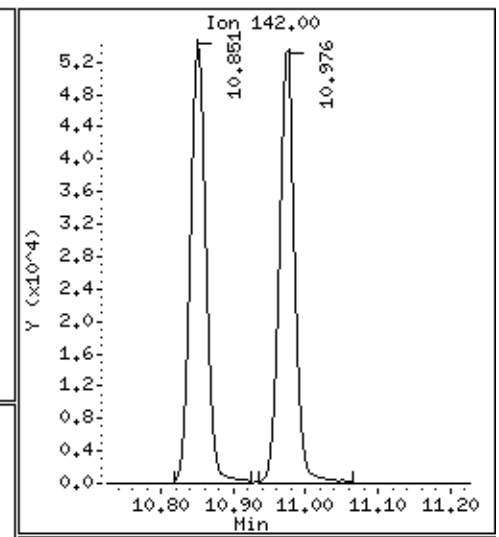
Concentration: 51.5 ppb

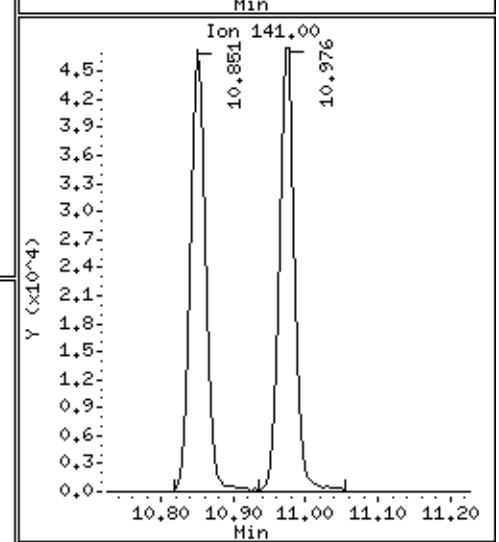


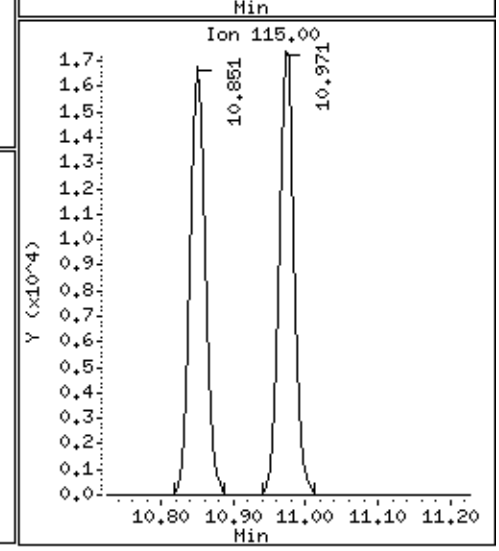












Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b/b10icv.d
Injection Date: 04-JAN-2017 20:33
Instrument: 50mv5b.i
Lab Sample ID: 8260-ICV,139204:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b012017.b\b01ccv.d
Lab Smp Id: 8260-CCV,140012:0 Client Smp ID: 8260-CCV,140012:0
Inj Date : 20-JAN-2017 13:34
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 8260-ccv,140012:0
Misc Info : 98904
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b012017.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 11:18 50mv5b.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:33 Cal File: b08cal8.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.044	1.044	(0.233)	34154	50.0000	50.8	
2 Chloromethane	50	1.133	1.133	(0.253)	38166	50.0000	35.5	
3 Vinyl Chloride	62	1.180	1.180	(0.263)	38026	50.0000	46.0	
4 Bromomethane	94	1.336	1.336	(0.298)	11569	50.0000	39.3	
5 Chloroethane	64	1.384	1.384	(0.309)	17043	50.0000	48.9	
6 Trichlorofluoromethane	101	1.509	1.509	(0.337)	43837	50.0000	49.2	
7 Diethyl ether	74	1.640	1.640	(0.366)	12739	50.0000	41.8	
8 1,2-dichlorotrifluoroethane	67	1.656	1.656	(0.370)	37572	50.0000	47.0	
9 Acrolein	56	1.718	1.718	(0.384)	86866	1000.00	1170	
10 1,1,2trichlorotrifluoroethane	101	1.776	1.776	(0.396)	33683	50.0000	49.0	
11 1,1-Dichloroethene	96	1.781	1.781	(0.398)	28415	50.0000	48.1	
12 Acetone	43	1.792	1.792	(0.400)	48882	250.000	229	
13 Iodomethane	142	1.875	1.875	(0.419)	63361	100.000	97.2	
14 Carbon Disulfide	76	1.927	1.927	(0.430)	105470	50.0000	47.2	
15 Methyl Acetate	43	1.969	1.969	(0.440)	38314	50.0000	61.1	
16 Acetonitrile	39	1.990	1.990	(0.444)	84837	50.0000	51.1	
17 allyl chloride	41	1.990	1.990	(0.444)	136271	100.000	106	
18 Methylene Chloride	84	2.074	2.074	(0.463)	31627	50.0000	45.9	
19 tert-Butyl Alcohol	59	2.116	2.116	(0.472)	7469	100.000	95.4(Q)	
20 Acrylonitrile	53	2.210	2.210	(0.493)	49656	200.000	190	
21 Methyl-tert-butyl ether	73	2.247	2.247	(0.502)	77449	50.0000	43.5	
22 1,2-Dichloroethene (trans)	96	2.262	2.262	(0.505)	29868	50.0000	46.0	
23 n-Hexane	57	2.456	2.456	(0.548)	66721	50.0000	53.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.571	2.571	(0.574)	400216	200.000	245	
	25 1,1-Dichloroethane	63	2.587	2.587	(0.577)	64105	50.0000	47.5	
	26 Chloroprene	53	2.644	2.644	(0.590)	57331	50.0000	48.2	
	27 2-Butanone	43	3.073	3.073	(0.686)	71586	250.000	228	
	28 1,2-Dichloroethene (cis)	96	3.099	3.099	(0.692)	32161	50.0000	44.5	
	29 2,2-Dichloropropane	77	3.104	3.104	(0.693)	46020	50.0000	45.9	
	30 Propionitrile	54	3.130	3.130	(0.699)	5122	50.0000	48.0(Q)	
	31 Methacrylonitrile	41	3.293	3.293	(0.735)	22850	50.0000	50.3	
	32 Bromochloromethane	49	3.350	3.350	(0.748)	35340	50.0000	49.2	
	33 Tetrahydrofuran	42	3.366	3.366	(0.751)	10799	50.0000	48.4	
	34 Chloroform	83	3.465	3.465	(0.774)	56480	50.0000	44.3	
	35 1,1,1-Trichloroethane	97	3.659	3.659	(0.817)	48777	50.0000	45.9	
$	36 Dibromofluoromethane (S)	113	3.659	3.659	(0.817)	36117	50.0000	48.4	
	37 Cyclohexane	56	3.753	3.753	(0.838)	67481	50.0000	48.9	
	38 n-butyl chloride	56	3.816	3.816	(0.852)	81355	50.0000	49.3	
	39 Carbon Tetrachloride	117	3.857	3.857	(0.861)	41730	50.0000	47.5	
	40 1,1-Dichloropropene	75	3.863	3.863	(0.862)	46208	50.0000	48.7	
	41 Benzene	78	4.103	4.103	(0.916)	127018	50.0000	43.6	
	42 1,2-Dichloroethane	62	4.182	4.182	(0.933)	43122	50.0000	44.7	
	43 Isobutyl alcohol	43	4.192	4.192	(0.936)	330146	50.0000	57.4	
	44 2,2,4-Trimethylpentane	57	4.265	4.265	(0.952)	156350	50.0000	51.0	
*	45 Fluorobenzene (IS)	96	4.480	4.480	(1.000)	148558	50.0000		
	46 Trichloroethene	95	4.909	4.909	(1.096)	34075	50.0000	44.4	
	47 Methylcyclohexane	55	5.170	5.170	(1.154)	61585	50.0000	50.2	
	48 1,2-Dichloropropane	63	5.207	5.207	(1.162)	37197	50.0000	44.2	
	49 Dibromomethane	93	5.301	5.301	(1.183)	19323	50.0000	44.0	
	50 Methyl methacrylate	69	5.301	5.301	(1.183)	19441	50.0000	46.1	
	51 1,4-Dioxane	88	5.301	5.301	(1.183)	6204	1000.00	1140	
	52 Bromodichloromethane	83	5.521	5.521	(1.232)	44289	50.0000	42.6	
	53 2-Chloroethyl vinyl ether	63	5.850	5.850	(0.776)	41035	100.000	92.3	
	54 cis-1,3-Dichloropropene	75	6.002	6.002	(0.796)	55921	50.0000	47.5	
	55 4-Methyl-2-Pentanone	43	6.164	6.164	(0.818)	194902	250.000	244	
$	56 Toluene-d8 (S)	98	6.274	6.274	(0.832)	149695	50.0000	52.8	
	57 Toluene	91	6.347	6.347	(0.842)	140012	50.0000	43.4	
	58 trans-1,3-Dichloropropene	75	6.609	6.609	(0.877)	49259	50.0000	46.4	
	59 Ethyl Methacrylate	69	6.677	6.677	(0.886)	40153	50.0000	48.7	
	60 1,1,2-Trichloroethane	83	6.786	6.786	(0.900)	23891	50.0000	46.2	
	61 Tetrachloroethene	166	6.839	6.839	(0.907)	38569	50.0000	46.3	
	62 1,3-Dichloropropane	76	6.917	6.917	(0.917)	46762	50.0000	43.6	
	63 2-Hexanone	43	6.969	6.969	(0.924)	148600	250.000	247	
	64 Dibromochloromethane	129	7.100	7.100	(0.942)	32820	50.0000	42.7	
	65 1,2-Dibromoethane	107	7.184	7.184	(0.953)	28095	50.0000	42.1	
*	66 Chlorobenzene-d5 (IS)	117	7.540	7.540	(1.000)	117619	50.0000		
	67 Chlorobenzene	112	7.560	7.560	(1.003)	95094	50.0000	43.0	
	68 1,1,1,2-Tetrachloroethane	131	7.634	7.634	(1.012)	34554	50.0000	44.7	
	69 Ethylbenzene	106	7.639	7.639	(1.013)	50371	50.0000	42.8	
	70 m&p-Xylene	106	7.733	7.733	(1.026)	126445	100.000	84.9	
	71 o-Xylene	106	7.989	7.989	(1.060)	61750	50.0000	41.9	
	72 Styrene	104	8.010	8.010	(1.062)	107326	50.0000	41.8	
	73 Bromoform	173	8.131	8.131	(0.901)	23737	50.0000	42.8	
	74 Isopropylbenzene	105	8.235	8.235	(1.092)	171070	50.0000	42.2	
$	75 4-Bromofluorobenzene (S)	95	8.345	8.345	(1.107)	61248	50.0000	51.4	
	76 Bromobenzene	77	8.429	8.429	(1.118)	69015	50.0000	40.5	
	77 1,1,2,2-Tetrachloroethane	83	8.434	8.434	(0.935)	40074	50.0000	41.4	

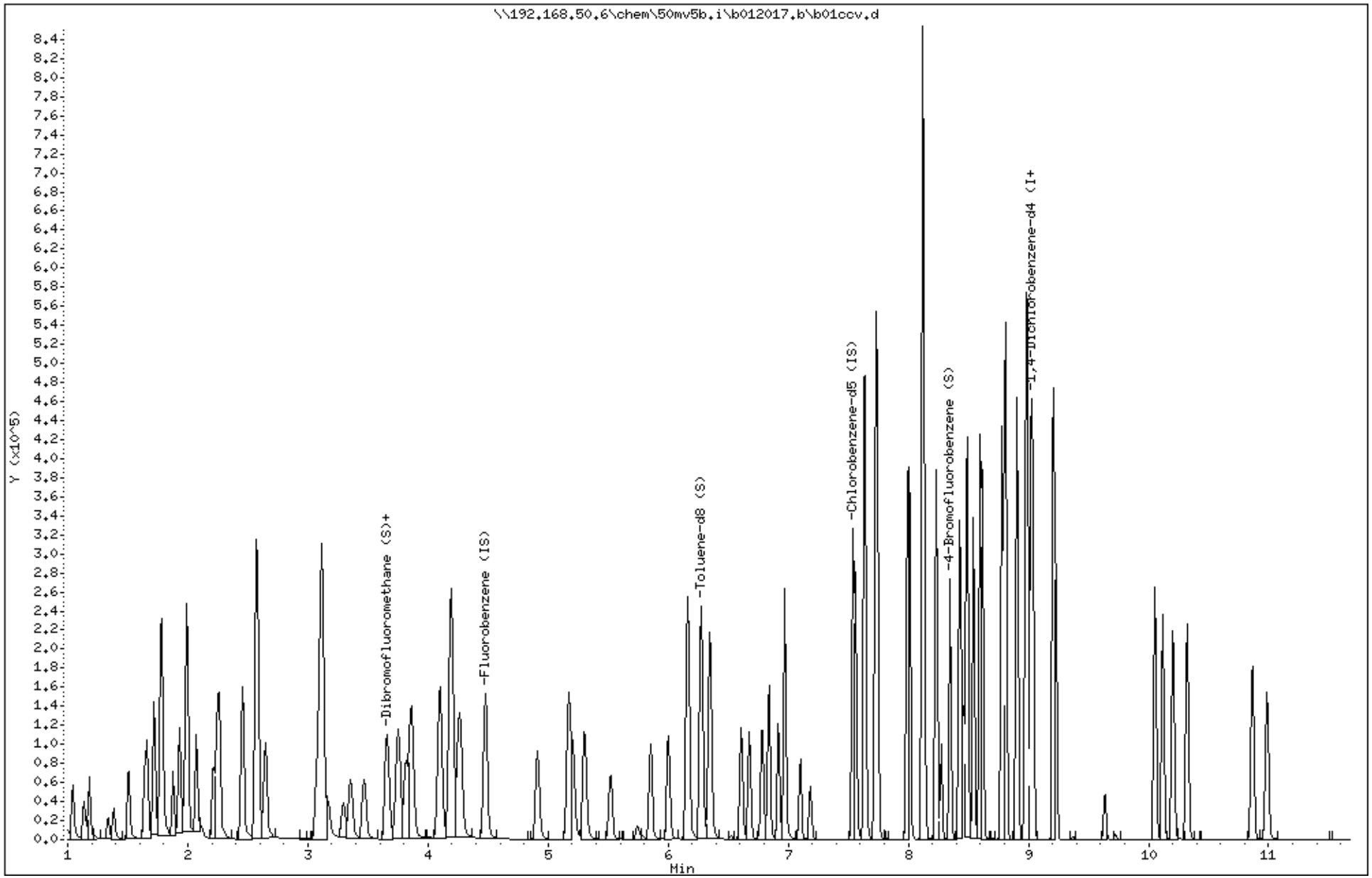
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
78 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.121)	13454	50.0000	50.0(Q)	
79 1,2,3-Trichloropropane	110	8.465	8.465	(0.939)	10222	50.0000	46.3	
80 n-Propylbenzene	91	8.491	8.491	(0.941)	214155	50.0000	44.0	
81 2-Chlorotoluene	91	8.544	8.544	(0.947)	123092	50.0000	42.6	
82 1,3,5-Trimethylbenzene	105	8.596	8.596	(0.953)	142851	50.0000	42.4	
83 4-Chlorotoluene	126	8.617	8.617	(0.955)	42191	50.0000	41.8	
84 tert-Butylbenzene	119	8.779	8.779	(0.973)	126718	50.0000	42.2	
85 1,2,4-Trimethylbenzene	105	8.811	8.811	(0.977)	146333	50.0000	41.8	
86 sec-Butylbenzene	105	8.905	8.905	(0.987)	201199	50.0000	43.0	
87 1,3-Dichlorobenzene	146	8.978	8.978	(0.995)	85025	50.0000	42.8	
88 p-Isopropyltoluene	119	8.988	8.988	(0.997)	169597	50.0000	44.8	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.020	9.020	(1.000)	67999	50.0000		
90 1,4-Dichlorobenzene	146	9.035	9.035	(1.002)	86463	50.0000	42.9	
91 n-Butylbenzene	91	9.208	9.208	(1.021)	166574	50.0000	45.5	
92 1,2-Dichlorobenzene	146	9.229	9.229	(1.023)	79676	50.0000	41.9	
93 1,2-Dibromo-3-chloropropane	155	9.637	9.637	(1.068)	7332	50.0000	44.2	
94 1,2,4-Trichlorobenzene	180	10.055	10.055	(1.115)	63277	50.0000	43.2	
95 Hexachlorobutadiene	225	10.123	10.123	(1.122)	35862	50.0000	41.7	
96 Naphthalene	128	10.202	10.202	(1.131)	133247	50.0000	40.1	
97 1,2,3-Trichlorobenzene	180	10.322	10.322	(1.144)	57362	50.0000	41.7	
98 2,methyl-naphthalene	142	10.866	10.866	(1.205)	82723	50.0000	43.1	
99 1-Methylnaphthalene	142	10.986	10.986	(1.218)	71298	50.0000	43.2	
148 Ethyl Acetate	88	3.120	3.120	(0.696)	7678	400.000	374(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b01ccv.d
Date : 20-JAN-2017 13:34
Client ID: 8260-CCV,140012:0
Sample Info: 8260-CCV,140012:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv5b.i
Operator: TMW
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b/b01ccv.d
Injection Date: 20-JAN-2017 13:34
Instrument: 50mv5b.i
Lab Sample ID: 8260-CCV,140012:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b00bfb.d

Date : 04-JAN-2017 14:16

Client ID: 8260-TUNE,139195:0

Instrument: 50mv5b.i

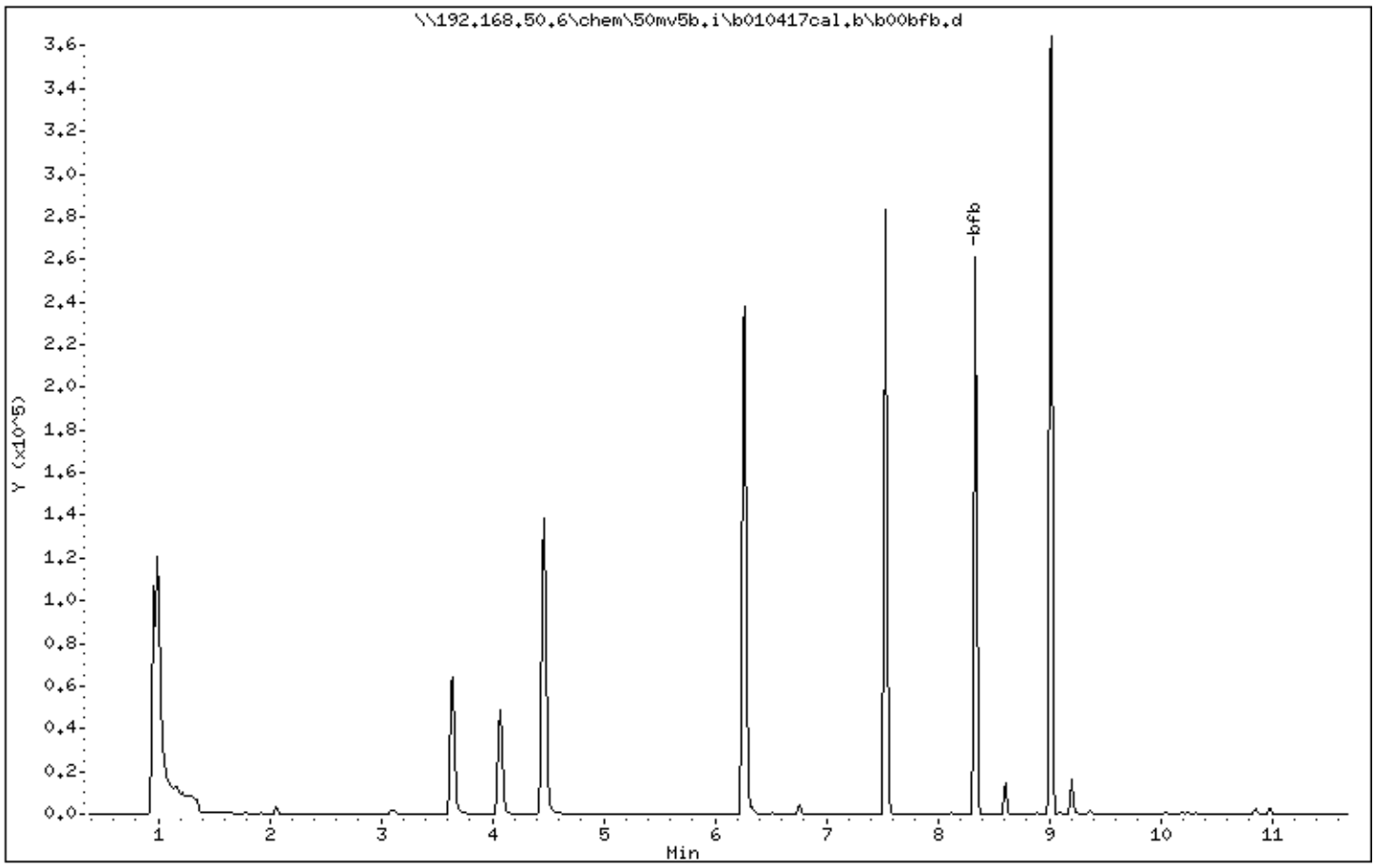
Sample Info: 8260-TUNE,139195:0

Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b00bfb.d

Date : 04-JAN-2017 14:16

Client ID: 8260-TUNE,139195:0

Instrument: 50mv5b.i

Sample Info: 8260-TUNE,139195:0

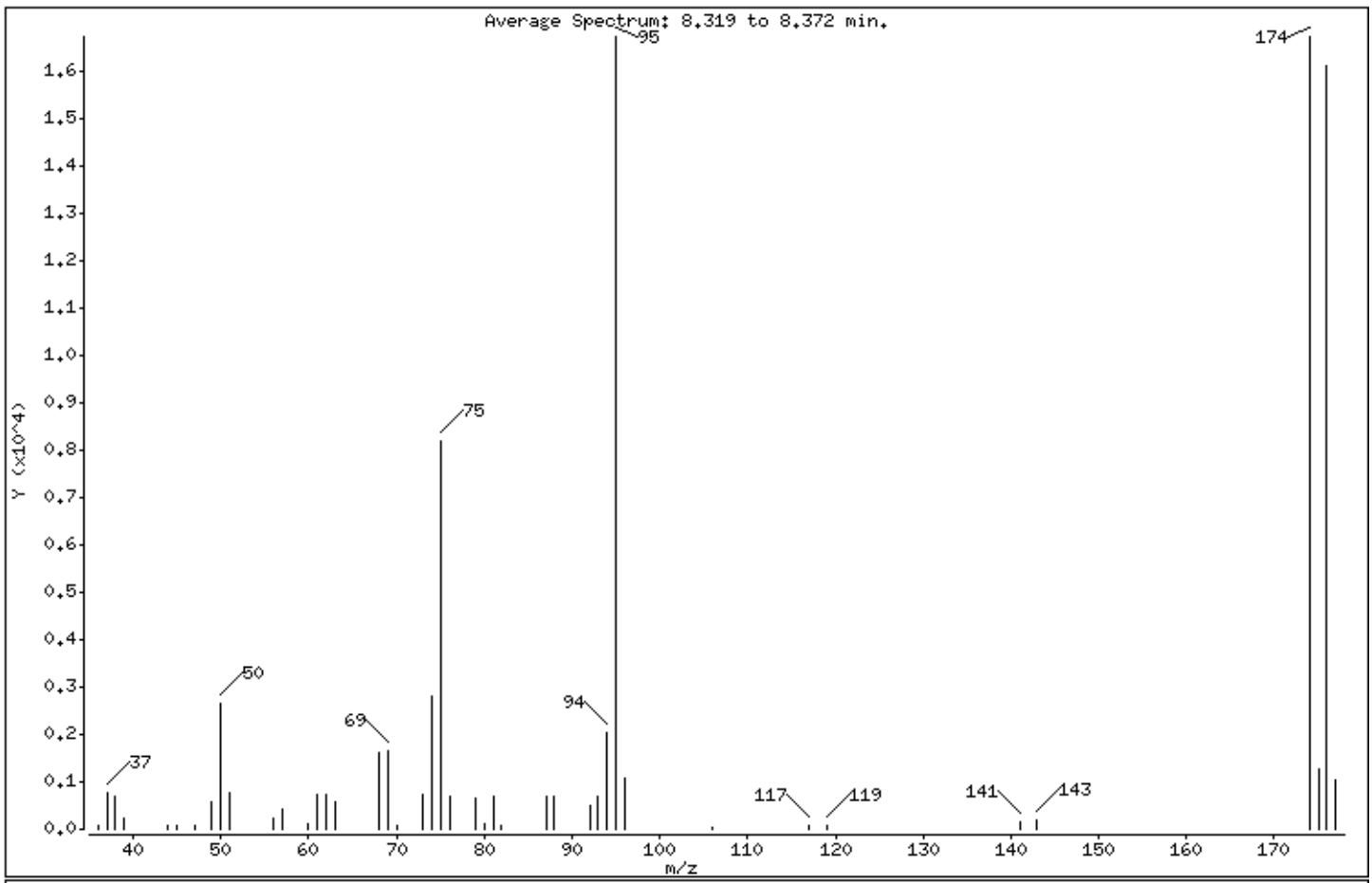
Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.94
75	30.00 - 60.00% of mass 95	48.98
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	99.98
175	5.00 - 9.00% of mass 174	7.63 (7.63)
176	95.00 - 101.00% of mass 174	96.35 (96.38)
177	5.00 - 9.00% of mass 176	6.20 (6.43)

Data File: \\192.168.50.6\chem\50mv5b.i\b010417cal.b\b00bfb.d

Date : 04-JAN-2017 14:16

Client ID: 8260-TUNE,139195:0 Instrument: 50mv5b.i

Sample Info: 8260-TUNE,139195:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Average Spectrum: 8.319 to 8.372 min.
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	80	57.00	407	76.00	693	96.00	1091
37.00	754	60.00	114	79.00	654	106.00	28
38.00	684	61.00	738	80.00	127	117.00	73
39.00	231	62.00	713	81.00	682	119.00	65
44.00	77	63.00	560	82.00	74	141.00	156
45.00	74	68.00	1614	87.00	690	143.00	179
47.00	83	69.00	1668	88.00	683	174.00	16720
49.00	570	70.00	82	92.00	495	175.00	1276
50.00	2666	73.00	730	93.00	691	176.00	16115
51.00	786	74.00	2822	94.00	2033	177.00	1037
56.00	243	75.00	8192	95.00	16720		

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1bfb.d

Date : 16-JAN-2017 12:52

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5a.i

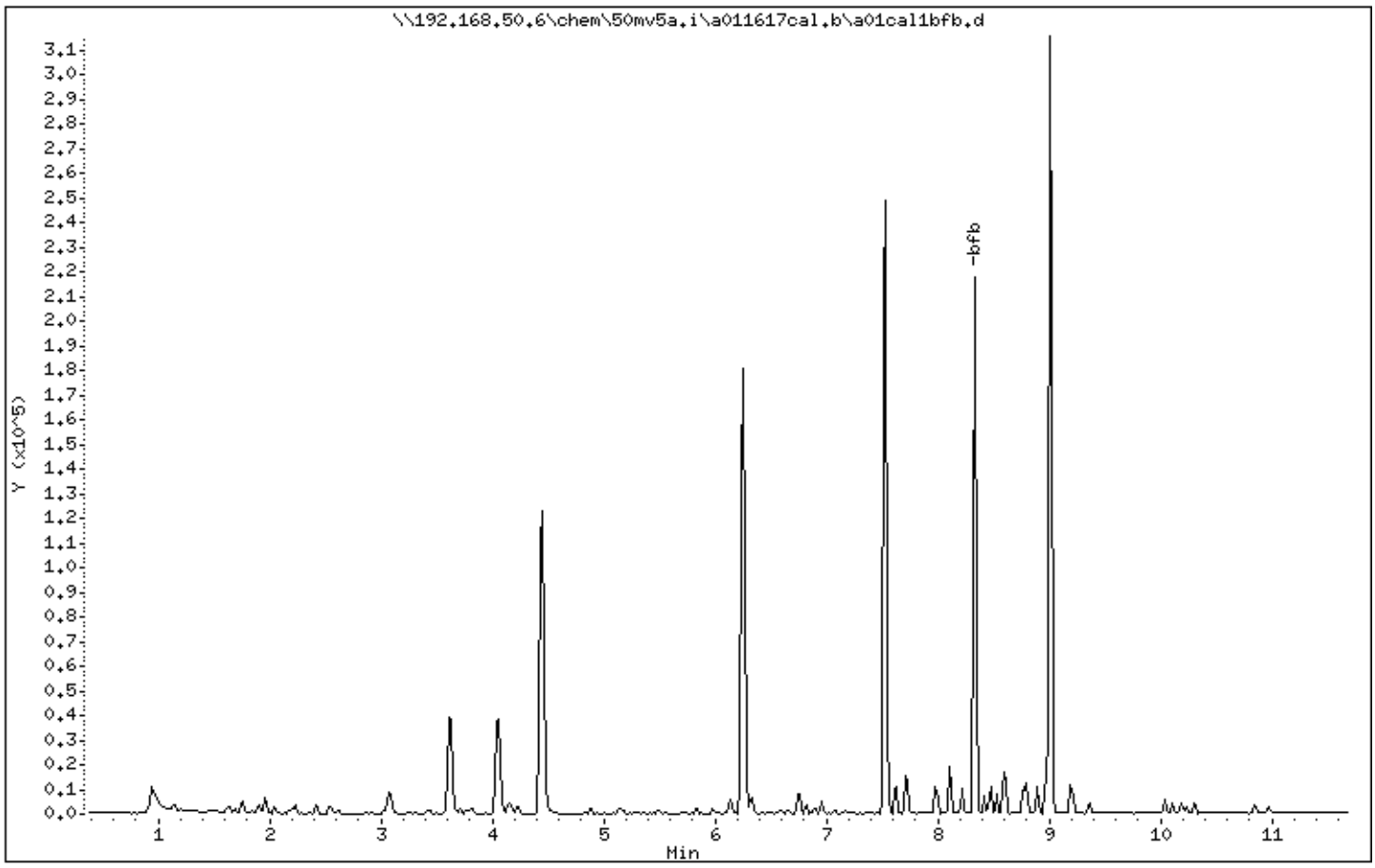
Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1bfb.d

Date : 16-JAN-2017 12:52

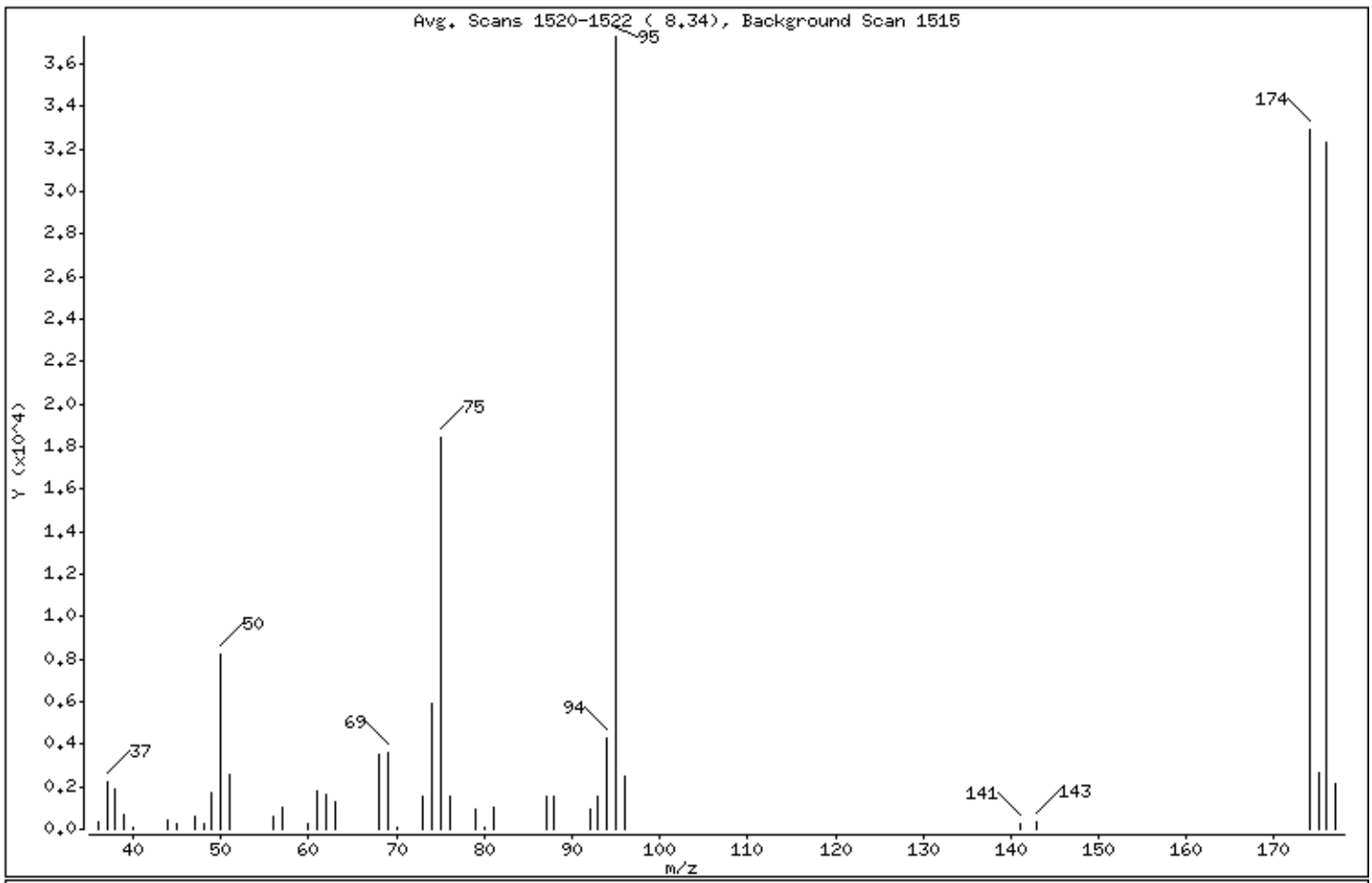
Client ID: 8260-TUNE,140013:0 Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.10
75	30.00 - 60.00% of mass 95	49.46
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	88.27
175	5.00 - 9.00% of mass 174	7.17 (8.12)
176	95.00 - 101.00% of mass 174	86.70 (98.23)
177	5.00 - 9.00% of mass 176	5.69 (6.57)

Data File: \\192.168.50.6\chem\50mv5a.i\a011617cal.b\a01cal1bfb.d

Date : 16-JAN-2017 12:52

Client ID: 8260-TUNE,140013:0 Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

Data File: a01cal1bfb.d
Spectrum: Avg. Scans 1520-1522 (8.34), Background Scan 1515
Location of Maximum: 95.00
Number of points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	374	51.00	2559	74.00	5930	95.00	37296
37.00	2210	56.00	590	75.00	18448	96.00	2470
38.00	1861	57.00	1005	76.00	1522	141.00	266
39.00	703	60.00	298	79.00	934	143.00	381
40.00	61	61.00	1770	80.00	102	174.00	32920
44.00	415	62.00	1658	81.00	991	175.00	2673
45.00	298	63.00	1277	87.00	1523	176.00	32336
47.00	579	68.00	3512	88.00	1569	177.00	2123
48.00	237	69.00	3572	92.00	954		
49.00	1733	70.00	102	93.00	1503		
50.00	8241	73.00	1565	94.00	4275		

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a00bfb.d

Date : 18-JAN-2017 12:01

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5a.i

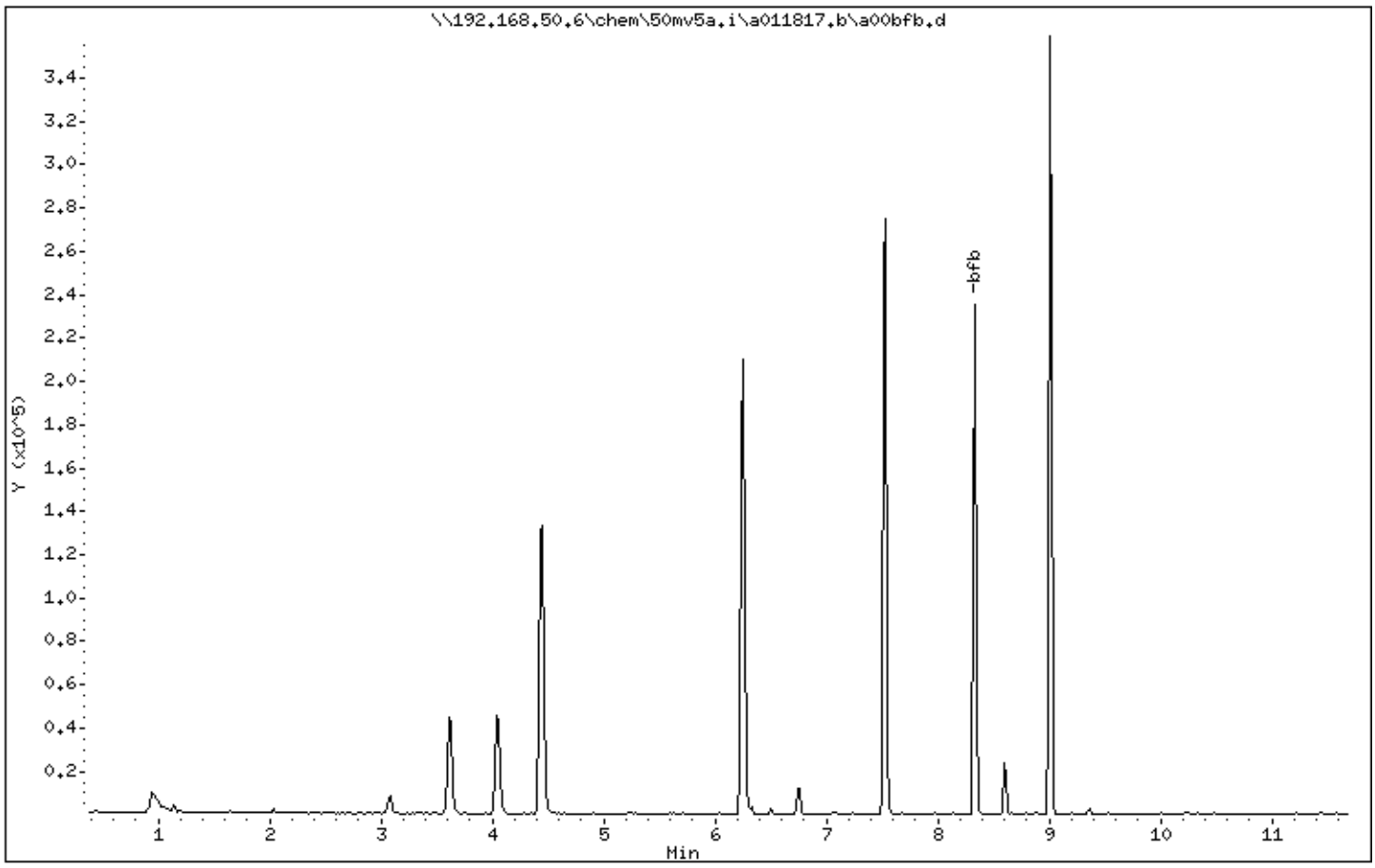
Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a00bfb.d

Date : 18-JAN-2017 12:01

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

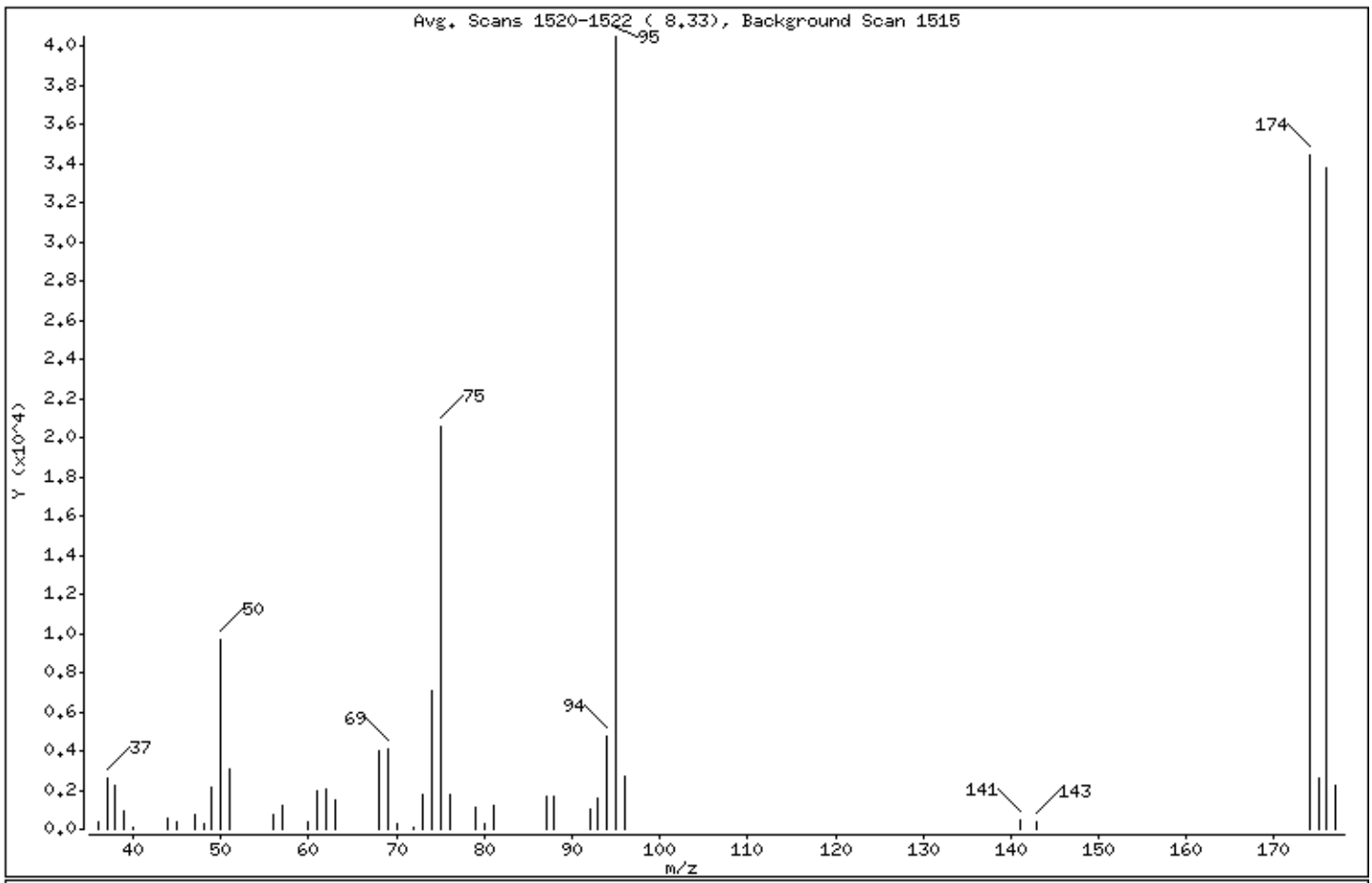
Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.89
75	30.00 - 60.00% of mass 95	50.78
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	84.94
175	5.00 - 9.00% of mass 174	6.52 (7.67)
176	95.00 - 101.00% of mass 174	83.48 (98.28)
177	5.00 - 9.00% of mass 176	5.44 (6.52)

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a00bfb.d

Date : 18-JAN-2017 12:01

Client ID: 8260-TUNE,140013:0 Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1520-1522 (8.33), Background Scan 1515
Location of Maximum: 95.00
Number of points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	401	51.00	3071	73.00	1763	94.00	4784
37.00	2640	56.00	724	74.00	7064	95.00	40488
38.00	2269	57.00	1250	75.00	20560	96.00	2658
39.00	903	60.00	342	76.00	1777	141.00	452
40.00	96	61.00	1991	79.00	1149	143.00	332
44.00	552	62.00	2068	80.00	239	174.00	34392
45.00	356	63.00	1498	81.00	1205	175.00	2639
47.00	729	68.00	4041	87.00	1641	176.00	33800
48.00	248	69.00	4083	88.00	1630	177.00	2203
49.00	2155	70.00	253	92.00	1043		
50.00	9672	72.00	105	93.00	1576		

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a00bfb.d

Date : 19-JAN-2017 14:23

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5a.i

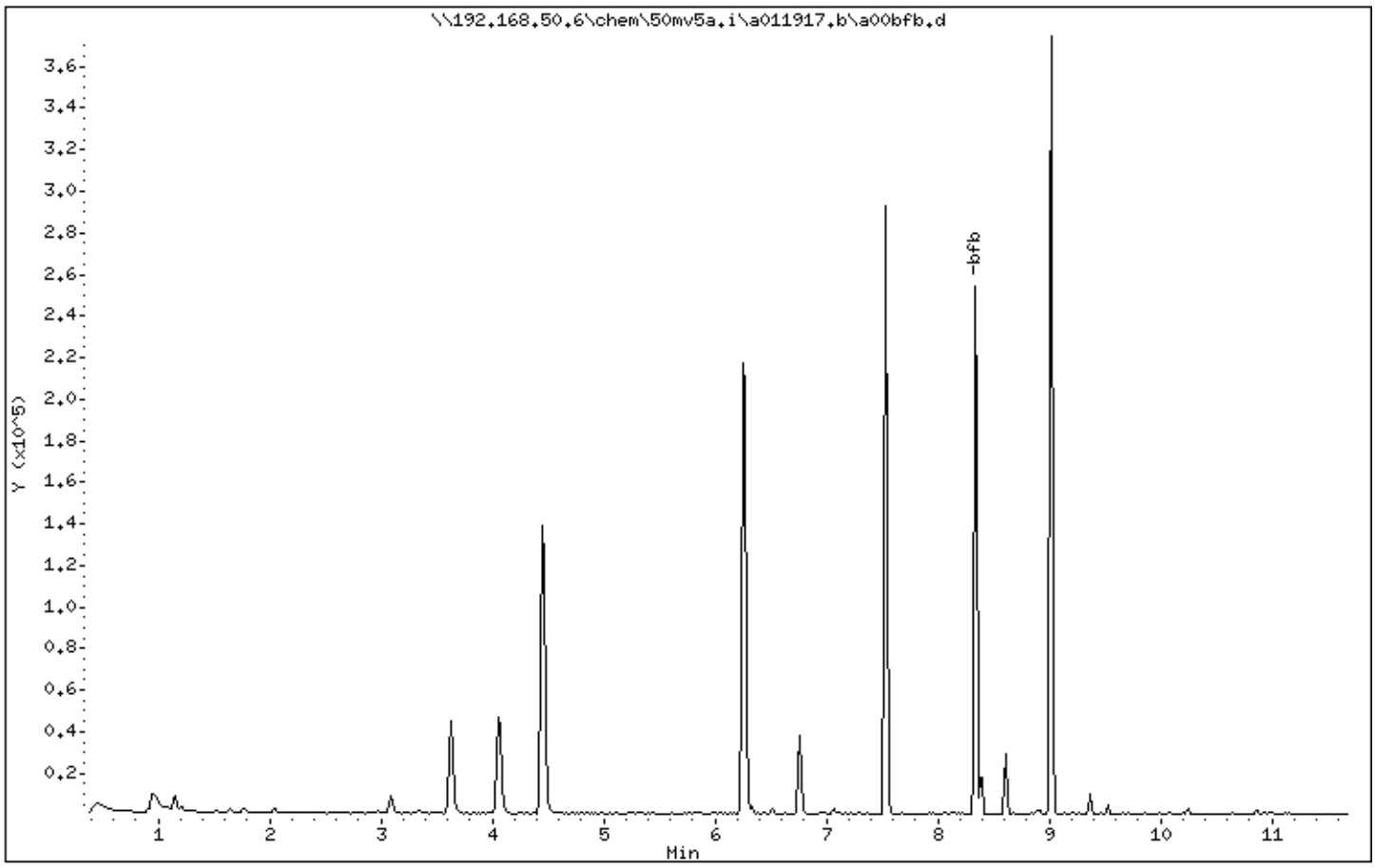
Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a00bfb.d

Date : 19-JAN-2017 14:23

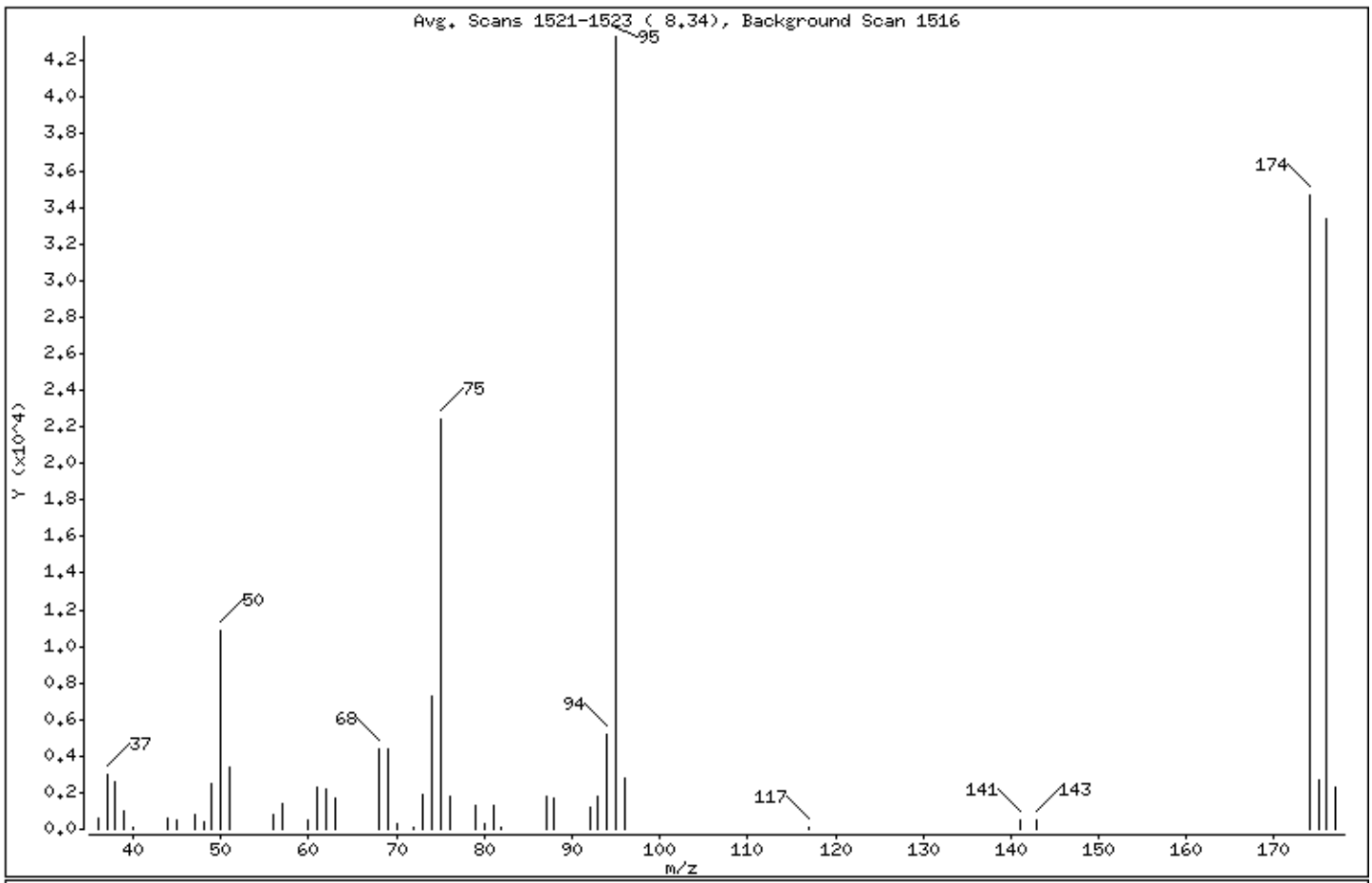
Client ID: 8260-TUNE,140013:0 Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.14
75	30.00 - 60.00% of mass 95	51.75
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	80.07
175	5.00 - 9.00% of mass 174	6.24 (7.80)
176	95.00 - 101.00% of mass 174	76.95 (96.10)
177	5.00 - 9.00% of mass 176	5.19 (6.74)

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a00bfb.d

Date : 19-JAN-2017 14:23

Client ID: 8260-TUNE,140013:0 Instrument: 50mv5a.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1521-1523 (8.34), Background Scan 1516
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	582	56.00	812	75.00	22416	96.00	2816
37.00	2963	57.00	1444	76.00	1811	117.00	100
38.00	2567	60.00	490	79.00	1272	141.00	452
39.00	964	61.00	2281	80.00	257	143.00	479
40.00	114	62.00	2186	81.00	1316	174.00	34688
44.00	597	63.00	1669	82.00	102	175.00	2704
45.00	476	68.00	4377	87.00	1818	176.00	33336
47.00	823	69.00	4365	88.00	1711	177.00	2248
48.00	400	70.00	260	92.00	1181		
49.00	2475	72.00	112	93.00	1763		
50.00	10891	73.00	1869	94.00	5142		
51.00	3435	74.00	7227	95.00	43320		

Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b00bfb.d

Date : 20-JAN-2017 12:56

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5b.i

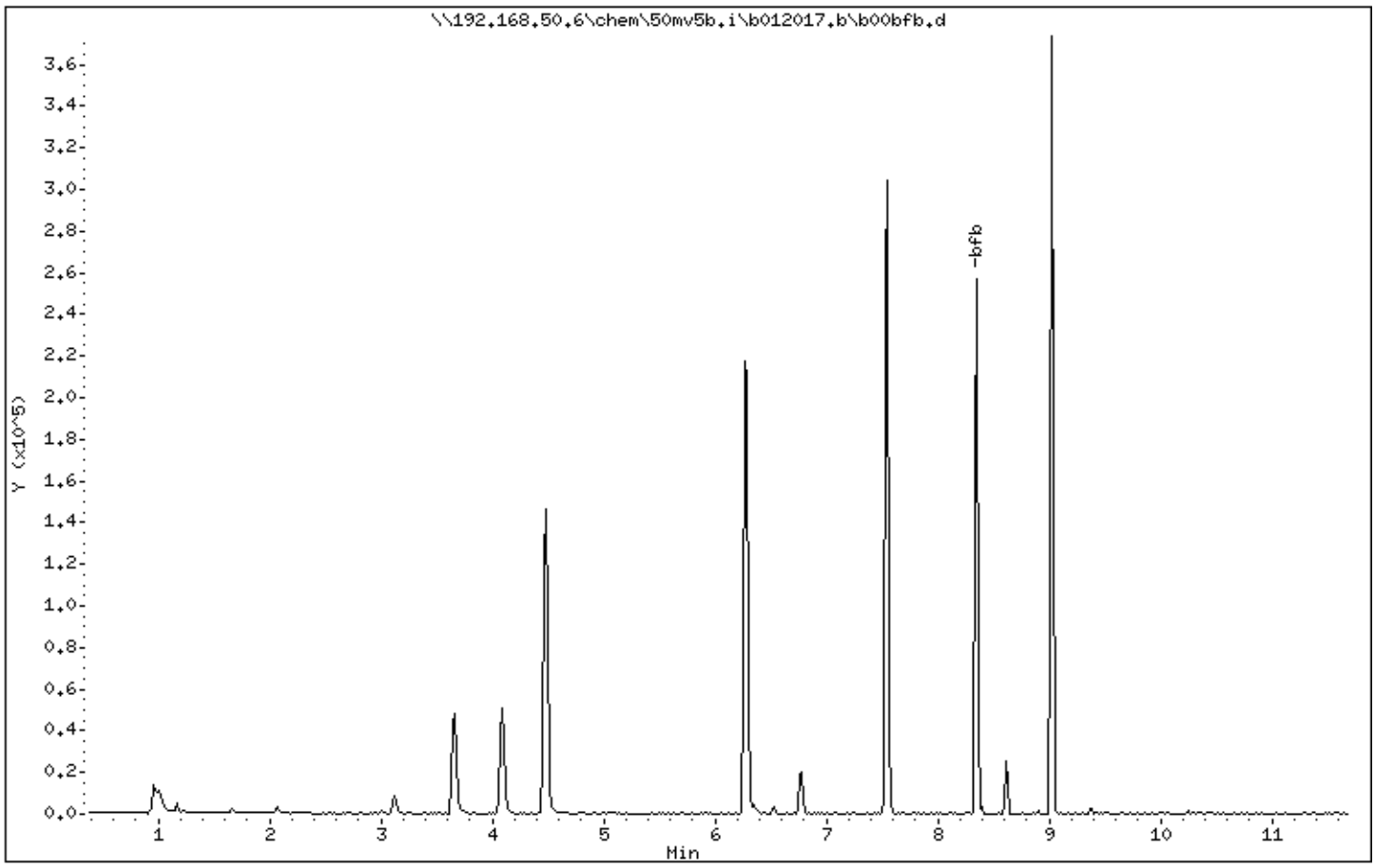
Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b00bfb.d

Date : 20-JAN-2017 12:56

Client ID: 8260-TUNE,140013:0

Instrument: 50mv5b.i

Sample Info: 8260-TUNE,140013:0

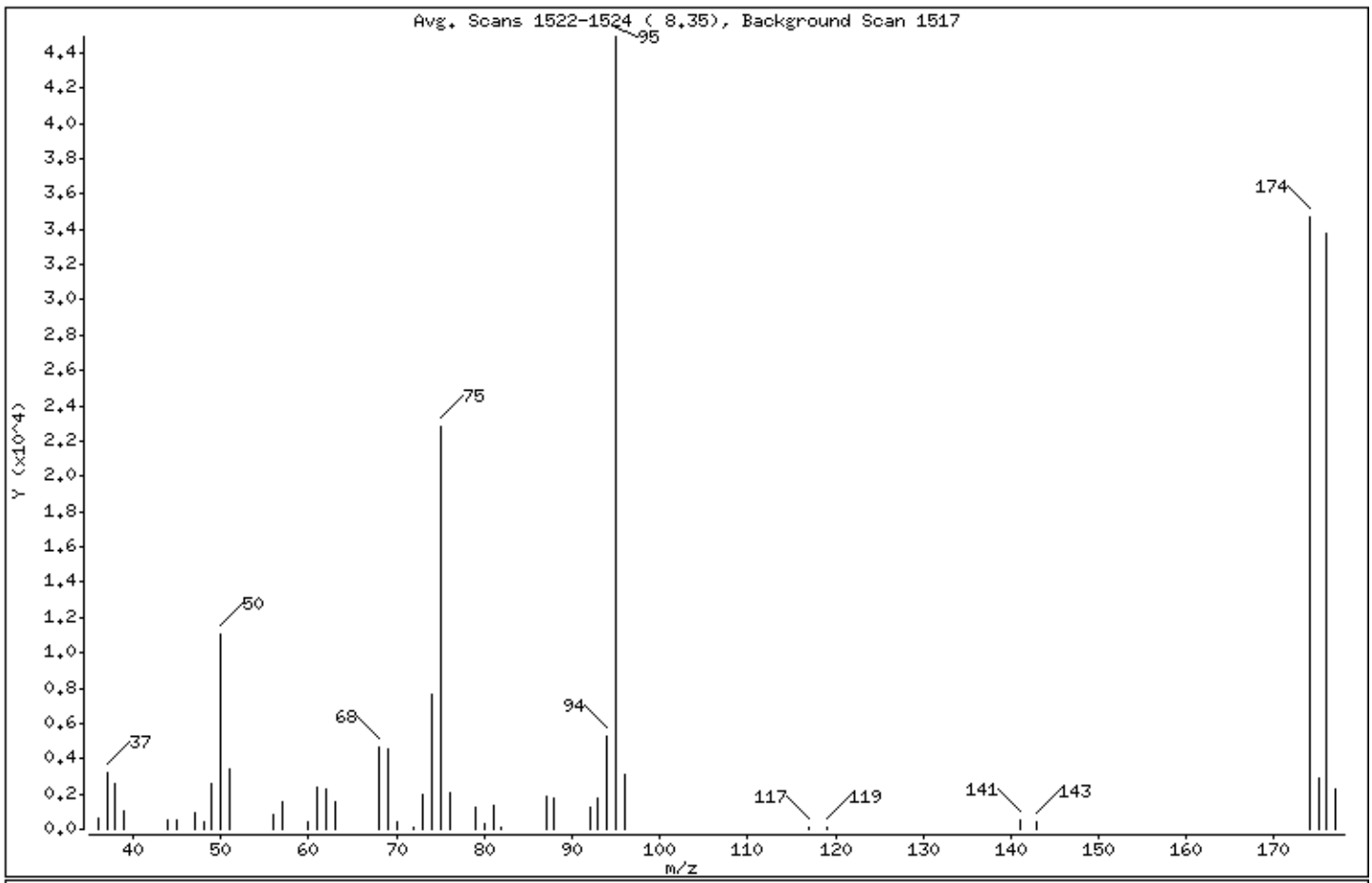
Volume Injected (uL): 1.0

Operator: TMW

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.56
75	30.00 - 60.00% of mass 95	50.91
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.31
175	5.00 - 9.00% of mass 174	6.36 (8.23)
176	95.00 - 101.00% of mass 174	75.20 (97.28)
177	5.00 - 9.00% of mass 176	4.96 (6.59)

Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b00bfb.d

Date : 20-JAN-2017 12:56

Client ID: 8260-TUNE,140013:0 Instrument: 50mv5b.i

Sample Info: 8260-TUNE,140013:0

Volume Injected (uL): 1.0 Operator: TMW

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1522-1524 (8.35), Background Scan 1517
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	601	57.00	1537	76.00	2014	117.00	103
37.00	3155	60.00	442	79.00	1279	119.00	105
38.00	2605	61.00	2384	80.00	267	141.00	488
39.00	1012	62.00	2243	81.00	1359	143.00	366
44.00	544	63.00	1596	82.00	100	174.00	34720
45.00	511	68.00	4653	87.00	1810	175.00	2856
47.00	889	69.00	4543	88.00	1769	176.00	33776
48.00	377	70.00	362	92.00	1234	177.00	2227
49.00	2570	72.00	101	93.00	1796		
50.00	11030	73.00	1971	94.00	5292		
51.00	3365	74.00	7637	95.00	44912		
56.00	832	75.00	22864	96.00	3048		

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 14:32
Lab Sample ID: 1710449
Date Analyzed: 01/18/2017 14:32
Lab File ID: A011817.B\A04MBSX.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/18/2017 14:32
Lab Sample ID: 1710449
Date Analyzed: 01/18/2017 14:32
Lab File ID: A011817.B\A04MBSX.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d
Lab Smp Id: 1710449 Client Smp ID: 1710449
Inj Date : 18-JAN-2017 14:32
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 1710449
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 37 Dibromofluoromethane (S)	113	3.622	3.617	(0.815)	30885	51.5442	51.5	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	119613	50.0000		
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	122988	51.1602	51.2	
58 Toluene	91	6.326	6.321	(0.841)	946	0.32954	0.330	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	99072	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	51597	51.1661	51.2	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	58352	50.0000		
99 2,methyl-naphthalene	142	10.850	10.845	(1.204)	2213	1.61164	1.61	
150 1-Methylnaphthalene	142	10.971	10.971	(1.218)	2112	1.70964	1.71	

Review Codes Legend

:

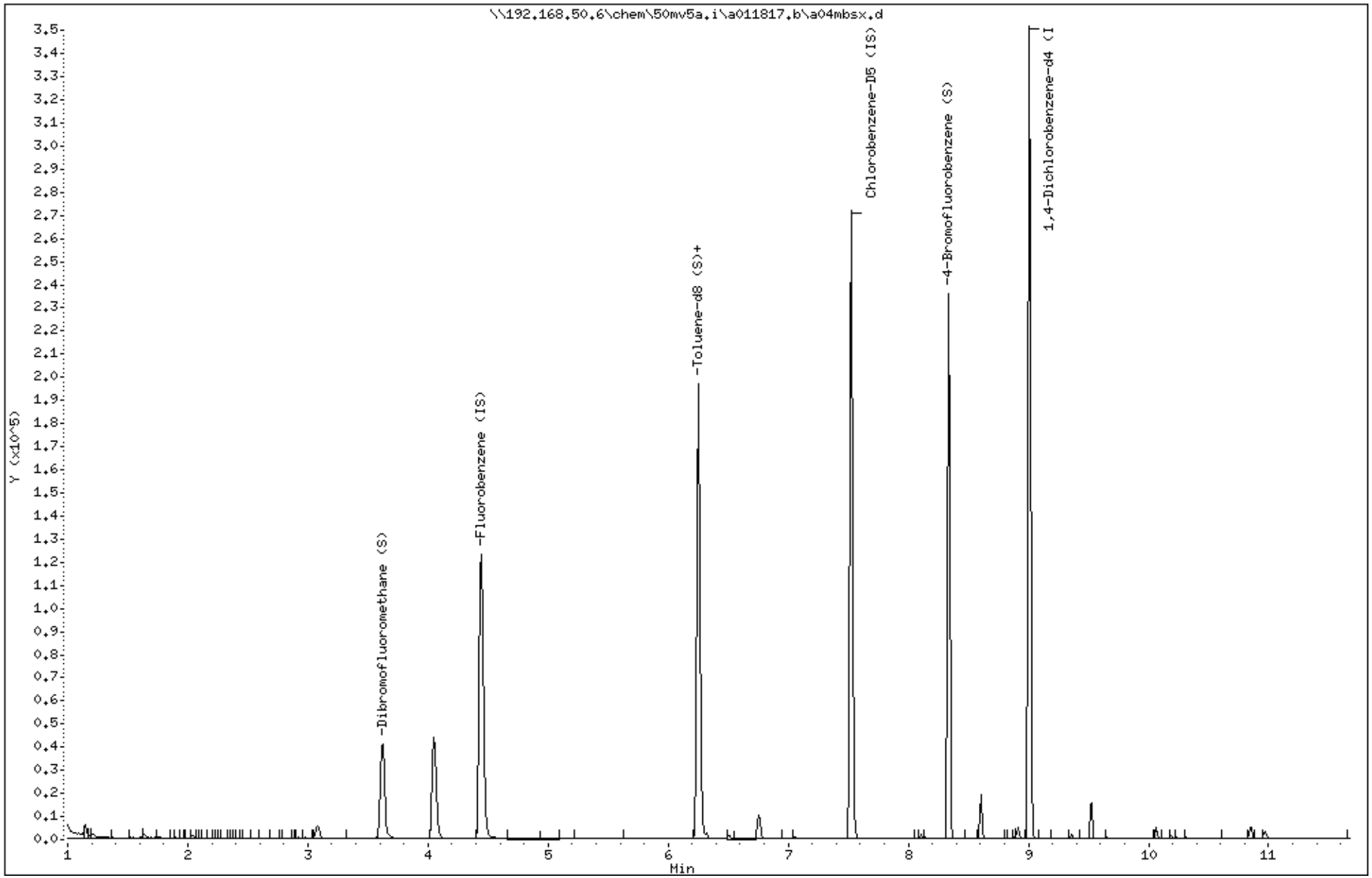
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d
Date : 18-JAN-2017 14:32
Client ID: 1710449
Sample Info: 1710449

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d

Date : 18-JAN-2017 14:32

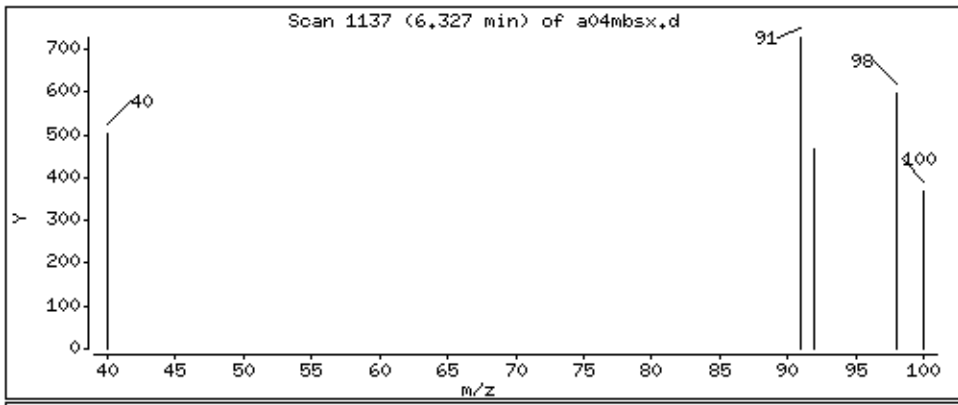
Client ID: 1710449 Instrument: 50mv5a.i

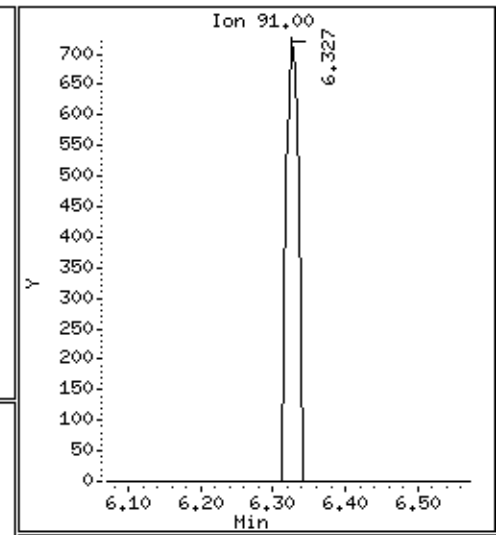
Sample Info: 1710449

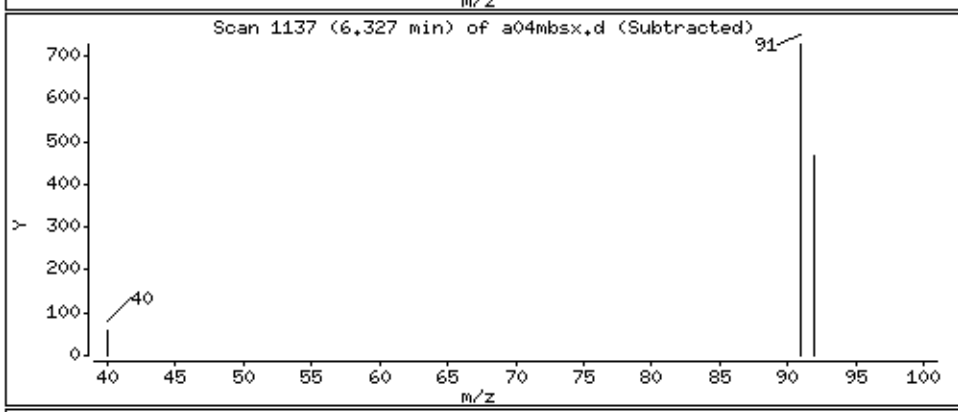
Operator: TMW

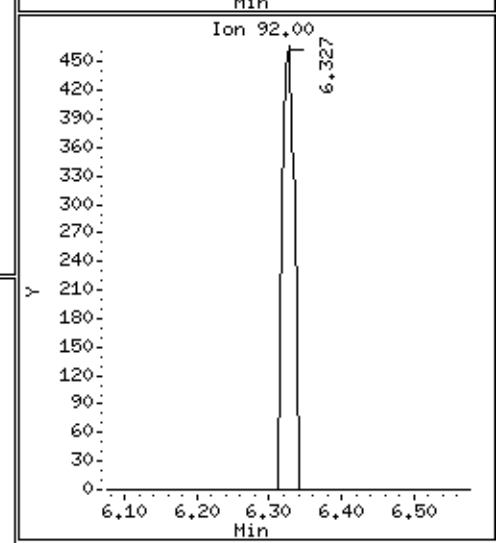
Column phase: DB-624 Column diameter: 0.18

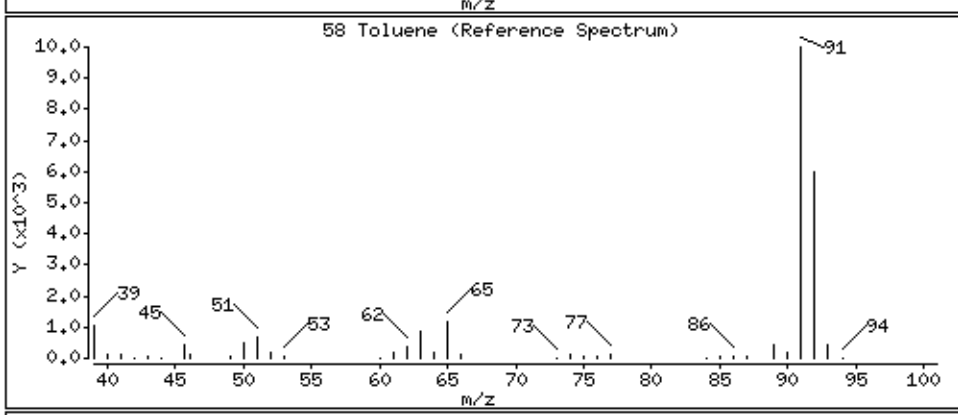
58 Toluene Concentration: 0.330 ppb

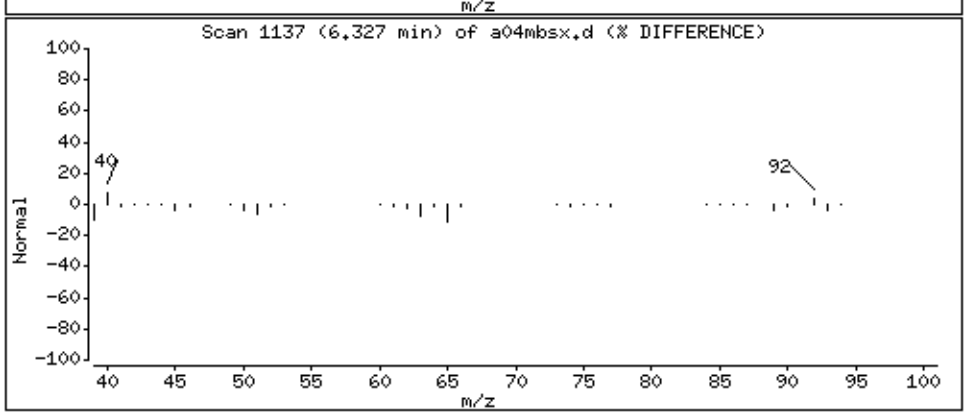












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d

Date : 18-JAN-2017 14:32

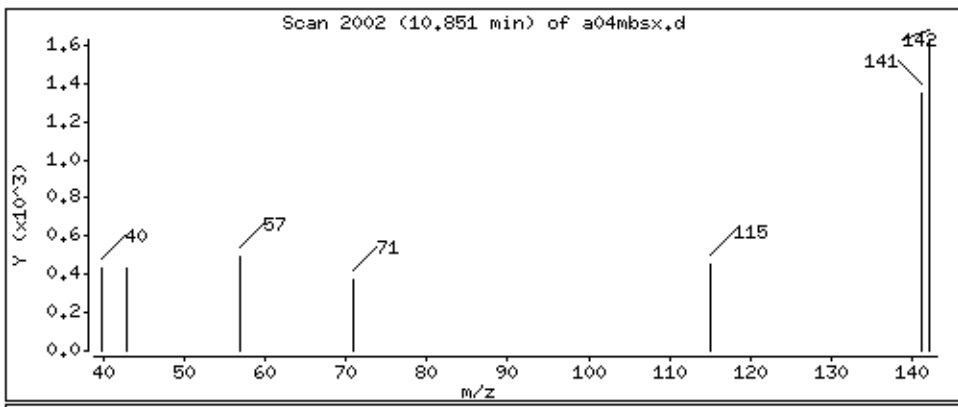
Client ID: 1710449 Instrument: 50mv5a.i

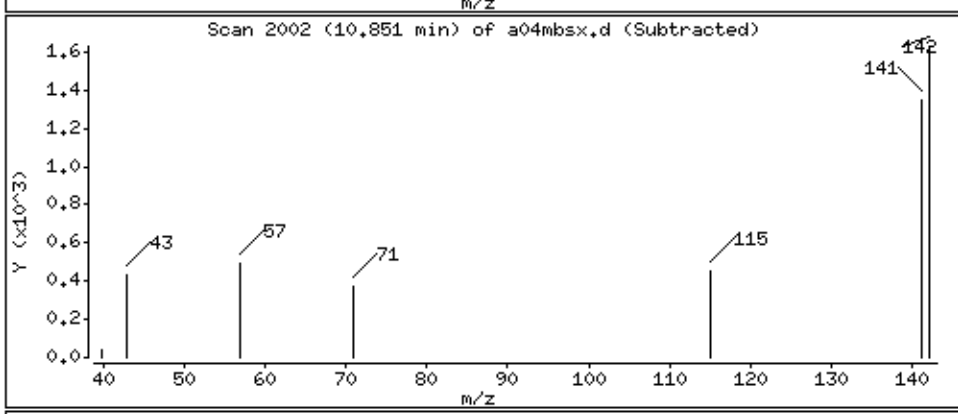
Sample Info: 1710449

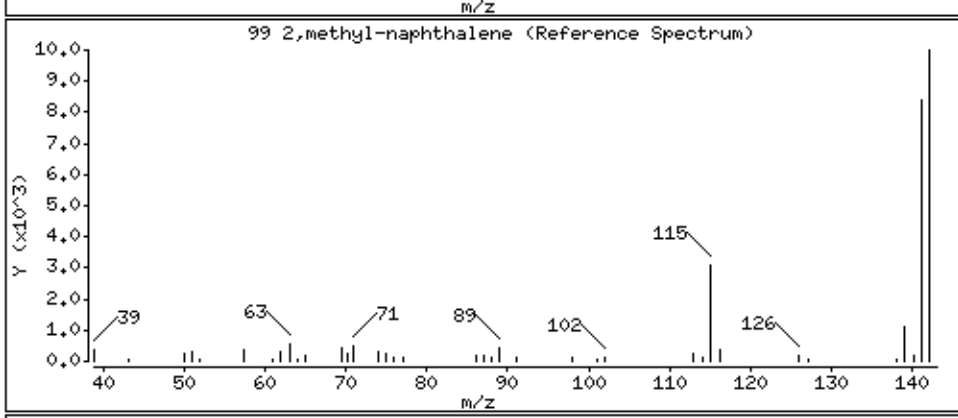
Operator: TMW

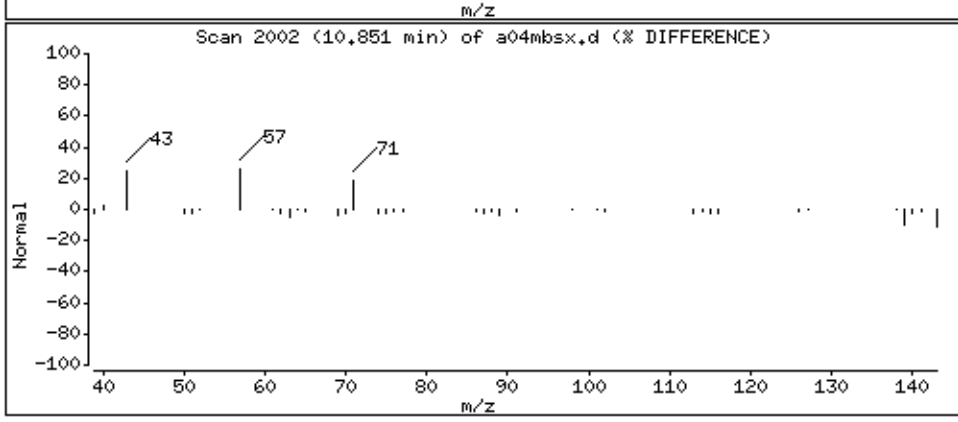
Column phase: DB-624 Column diameter: 0.18

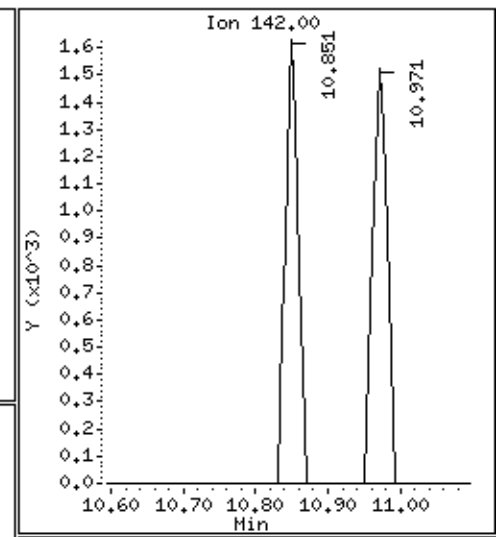
99 2,methyl-naphthalene Concentration: 1.61 ppb

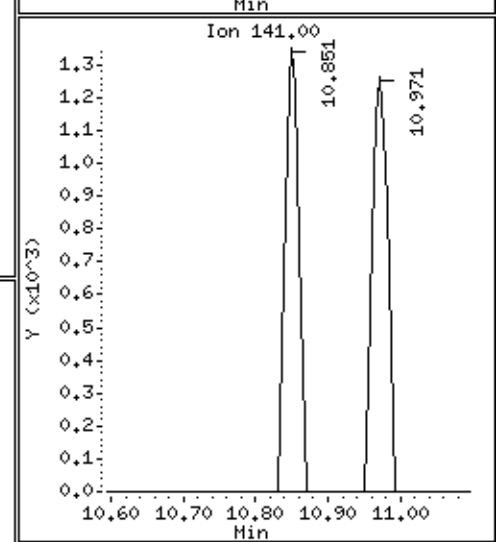


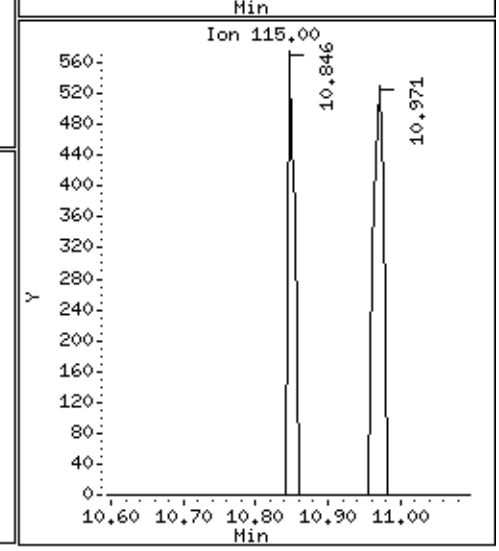












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a04mbsx.d

Date : 18-JAN-2017 14:32

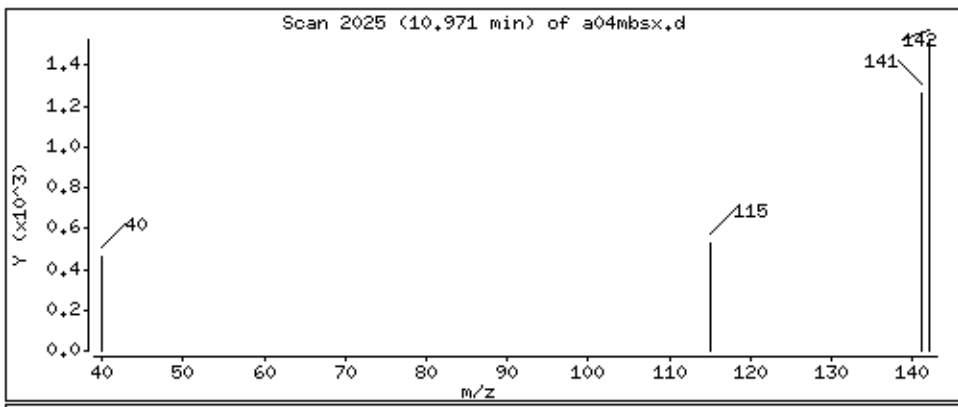
Client ID: 1710449 Instrument: 50mv5a.i

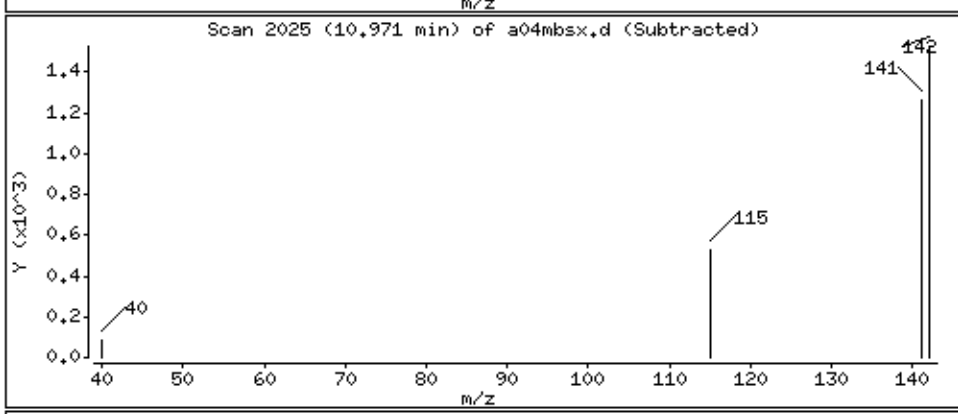
Sample Info: 1710449

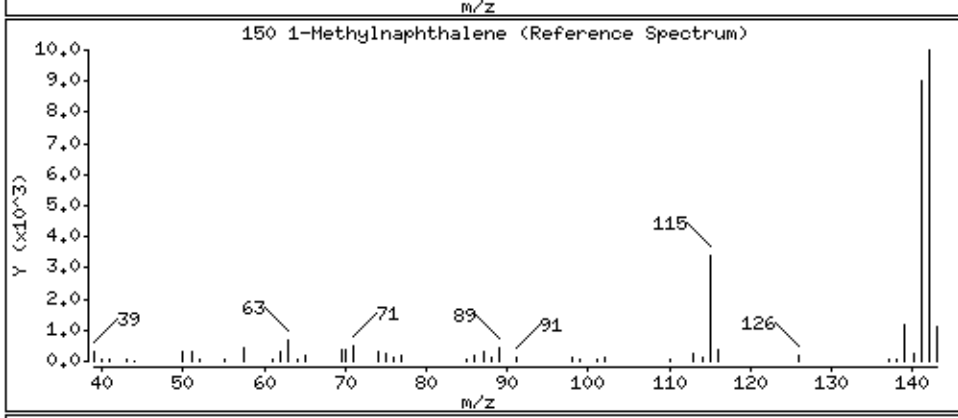
Operator: TMW

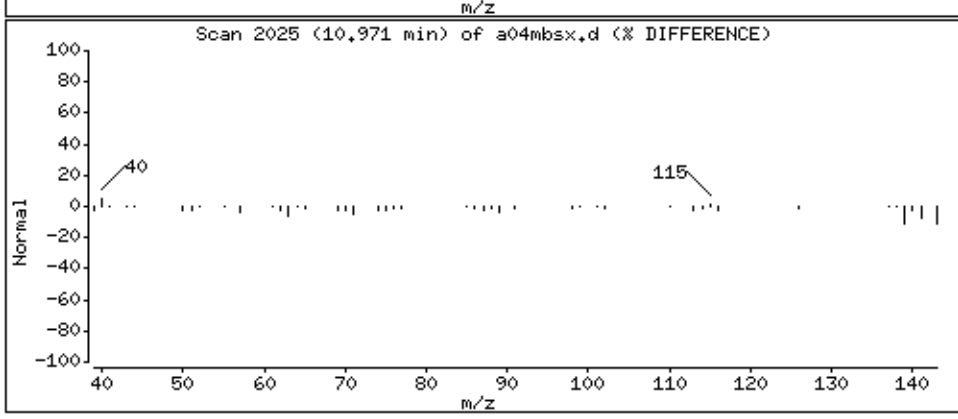
Column phase: DB-624 Column diameter: 0.18

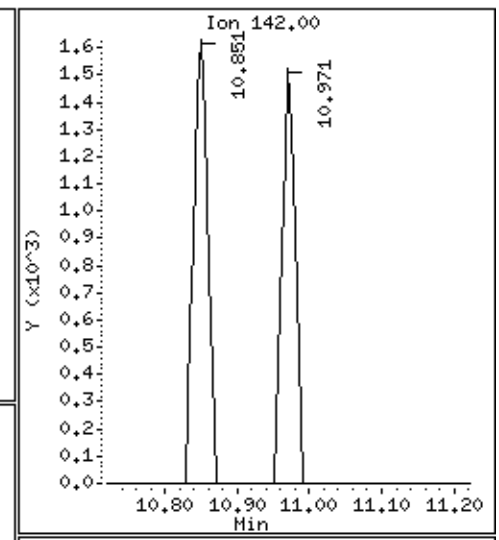
150 1-Methylnaphthalene Concentration: 1.71 ppb

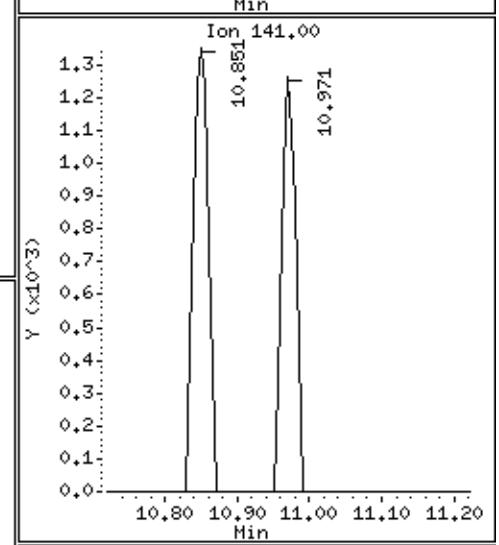


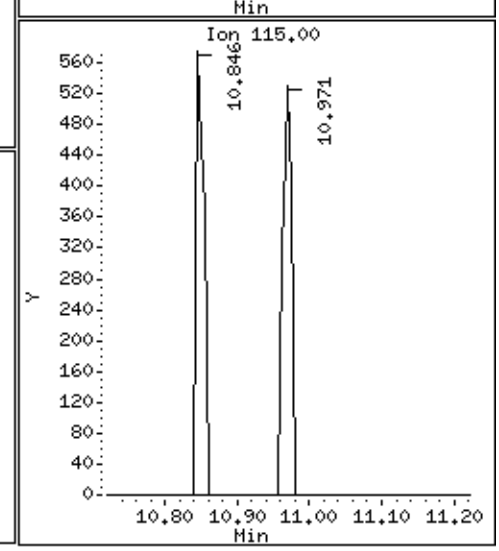












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b/a04mbsx.d
Injection Date: 18-JAN-2017 14:32
Instrument: 50mv5a.i
Lab Sample ID: 1710449
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: Quick Shop / IN17002

Date Received:

Matrix: Solid SDG No.: 50163047

Date Extracted: 01/18/2017 13:16

Lab Sample ID: 1710450

Date Analyzed: 01/18/2017 13:16

Lab File ID: A011817.B\A02LCSSX.D

Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1

Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
71-43-2	Benzene	0.045	
108-90-7	Chlorobenzene	0.047	
67-66-3	Chloroform	0.047	
75-35-4	1,1-Dichloroethene	0.046	
156-59-2	cis-1,2-Dichloroethene	0.048	
156-60-5	trans-1,2-Dichloroethene	0.049	
78-87-5	1,2-Dichloropropane	0.052	
100-41-4	Ethylbenzene	0.047	
98-82-8	Isopropylbenzene (Cumene)	0.046	
1634-04-4	Methyl-tert-butyl ether	0.048	
91-20-3	Naphthalene	0.044	
79-34-5	1,1,2,2-Tetrachloroethane	0.049	
127-18-4	Tetrachloroethene	0.047	
108-88-3	Toluene	0.048	
71-55-6	1,1,1-Trichloroethane	0.048	
79-01-6	Trichloroethene	0.047	
95-63-6	1,2,4-Trimethylbenzene	0.047	
75-01-4	Vinyl chloride	0.051	
1330-20-7	Xylene (Total)	0.14	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d
Report Date: 19-Jan-2017 08:50

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d
Lab Smp Id: 1710450,138812:5 Client Smp ID: 1710450,138812:5
Inj Date : 18-JAN-2017 13:16
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 1710450,138812:5
Misc Info : 98973
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011817.b\-a8260_a_c.m
Meth Date : 19-Jan-2017 07:16 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.153	1.153	(0.260)	35077	51.3160	51.3	
22 1,2-Dichloroethene (trans)	96	2.231	2.231	(0.502)	29705	48.6857	48.7	
30 1,2-Dichloroethene (cis)	96	3.062	3.062	(0.689)	32520	47.9783	48.0(Q)	
11 1,1-Dichloroethene	96	1.755	1.755	(0.395)	25681	45.7690	45.8	
21 Methyl-tert-butyl ether	73	2.210	2.210	(0.497)	82125	48.0711	48.1	
35 Chloroform	83	3.429	3.429	(0.772)	56525	46.8793	46.9	
36 1,1,1-Trichloroethane	97	3.622	3.622	(0.815)	48829	48.4513	48.4	
$ 37 Dibromofluoromethane (S)	113	3.617	3.617	(0.814)	32262	48.5784	48.6	
42 Benzene	78	4.067	4.067	(0.915)	126544	45.2905	45.3	
* 46 Fluorobenzene (IS)	96	4.443	4.443	(1.000)	132574	50.0000		
47 Trichloroethene	95	4.883	4.883	(1.099)	33499	47.4266	47.4	
49 1,2-Dichloropropane	63	5.175	5.175	(1.165)	40376	52.2377	52.2	
$ 57 Toluene-d8 (S)	98	6.253	6.253	(0.831)	128053	51.3849	51.4	
58 Toluene	91	6.321	6.321	(0.840)	142275	47.8100	47.8	
62 Tetrachloroethene	166	6.818	6.818	(0.906)	37521	47.0770	47.1	
* 67 Chlorobenzene-D5 (IS)	117	7.524	7.524	(1.000)	102701	50.0000		
68 Chlorobenzene	112	7.545	7.545	(1.003)	94436	46.7239	46.7	
70 Ethylbenzene	106	7.623	7.623	(1.013)	52702	46.6576	46.6	
71 m&p-Xylene	106	7.717	7.717	(1.026)	131372	98.4492	98.4	
72 o-Xylene	106	7.979	7.979	(1.060)	63376	45.4092	45.4	
75 Isopropylbenzene	105	8.219	8.219	(1.092)	174819	45.7650	45.8	

Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d
Report Date: 19-Jan-2017 08:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.335	8.335	(1.108)	53327	51.0130	51.0	
78 1,1,2,2-Tetrachloroethane	83	8.418	8.418	(0.934)	42151	48.8191	48.8	
86 1,2,4-Trimethylbenzene	105	8.800	8.800	(0.977)	158074	46.8584	46.8	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.009	9.009	(1.000)	61382	50.0000		
97 Naphthalene	128	10.191	10.191	(1.131)	138705	43.6259	43.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

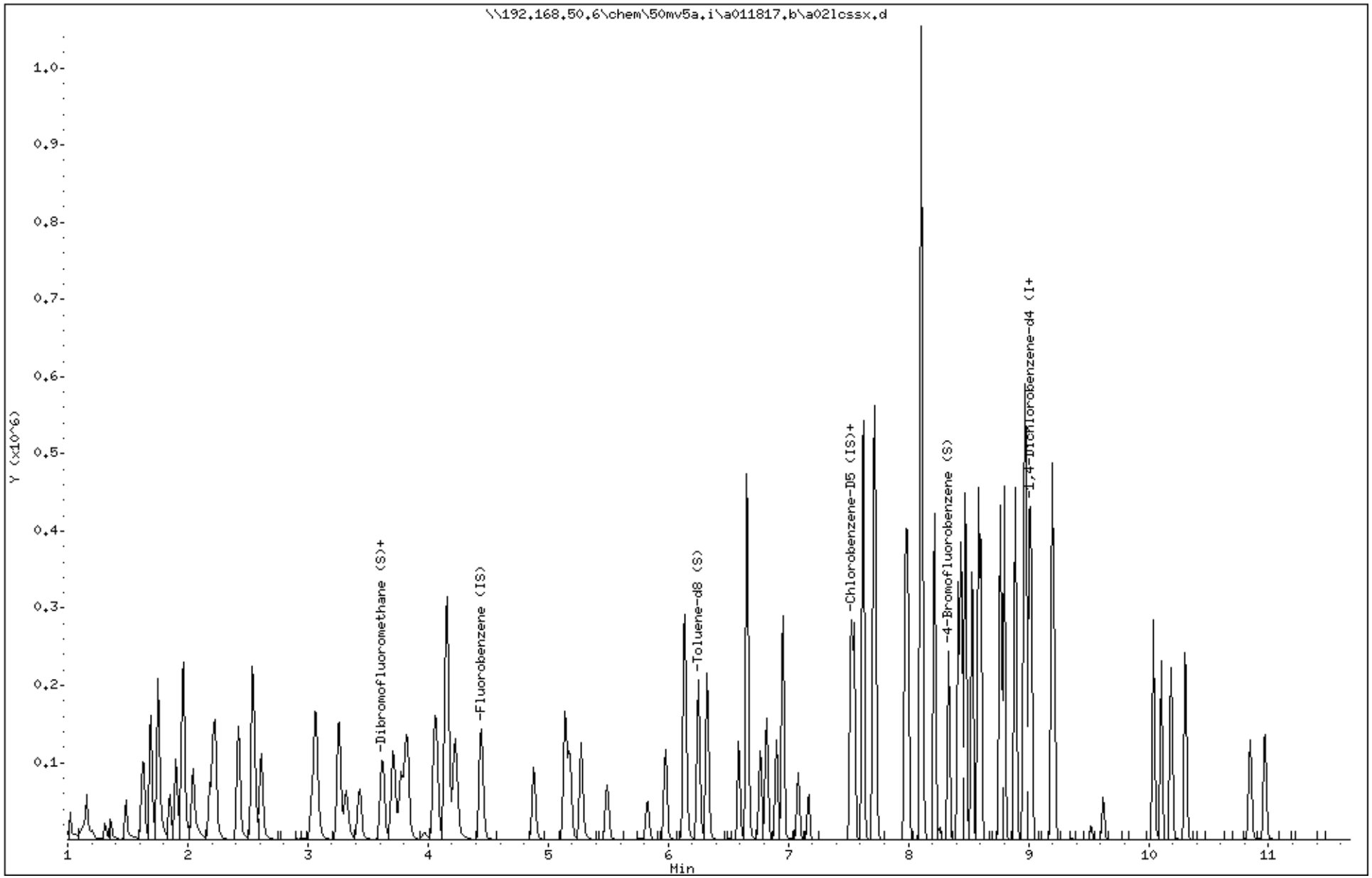
Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d
Date : 18-JAN-2017 13:16
Client ID: 1710450,138812:5
Sample Info: 1710450,138812:5

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

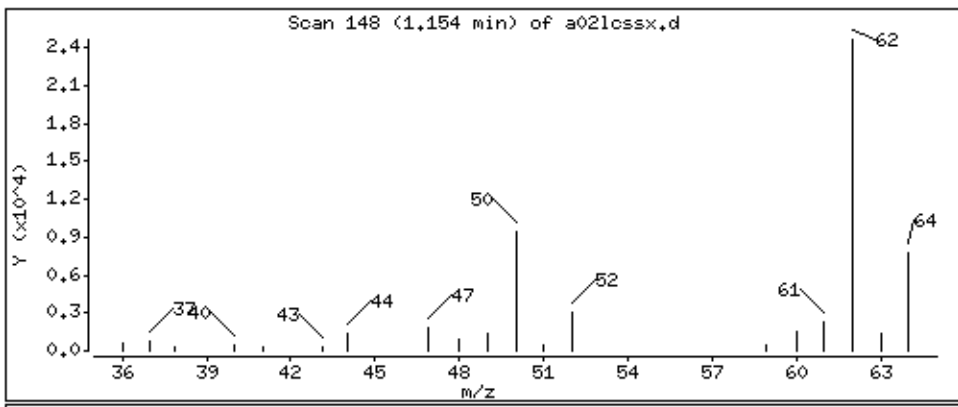
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

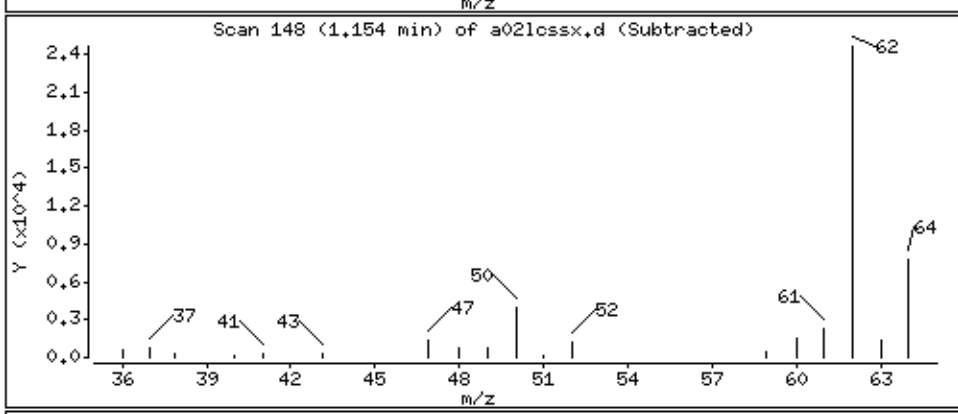
Sample Info: 1710450,138812:5

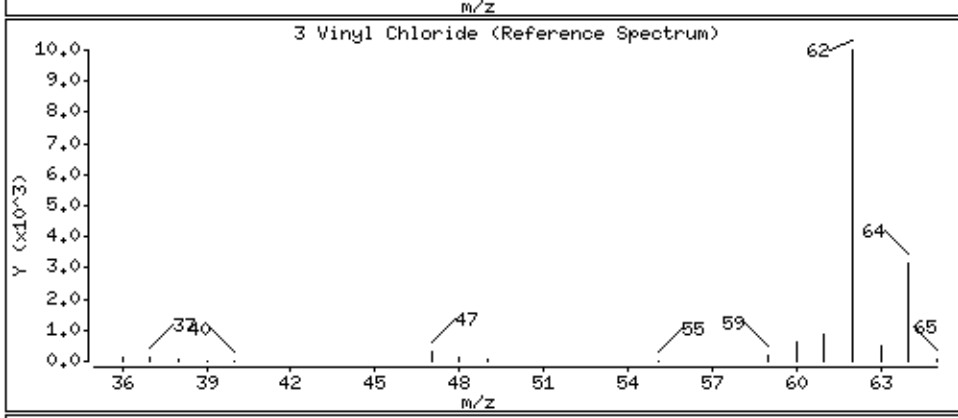
Operator: TMW

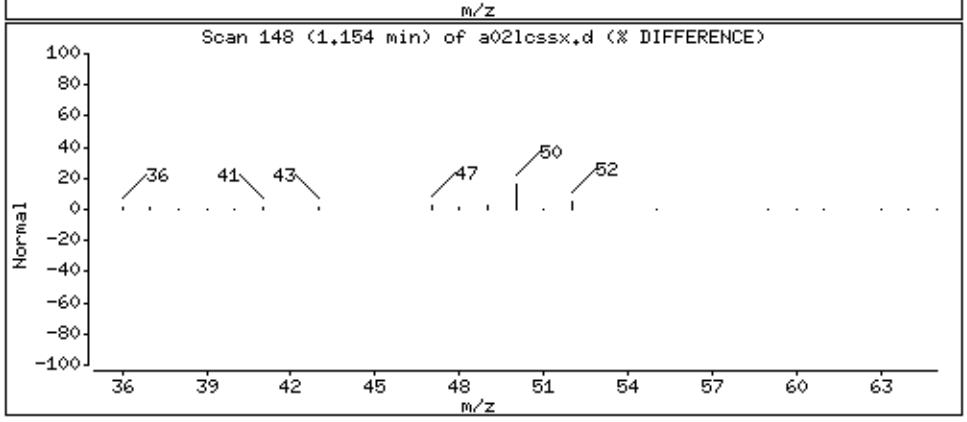
Column phase: DB-624 Column diameter: 0.18

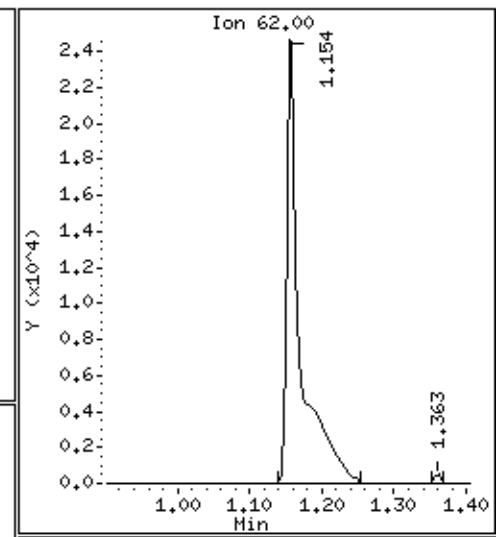
3 Vinyl Chloride Concentration: 51.3 ppb

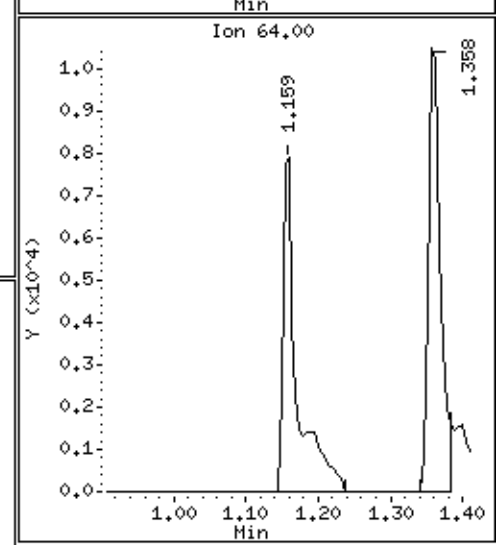












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

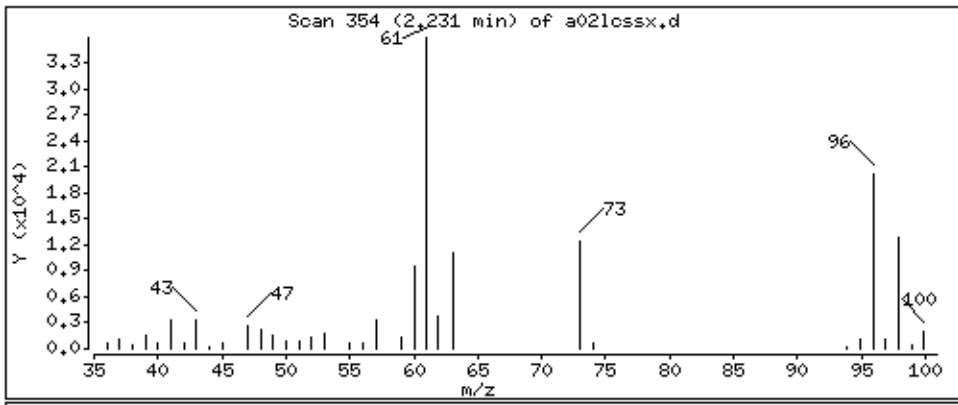
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

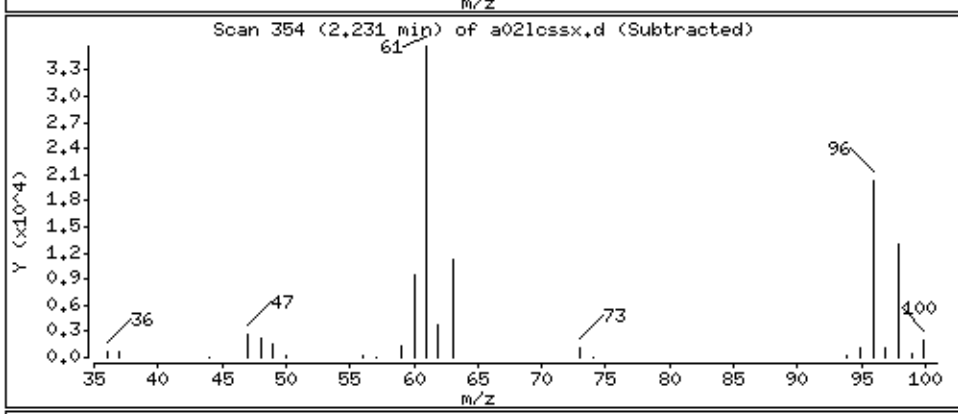
Sample Info: 1710450,138812:5

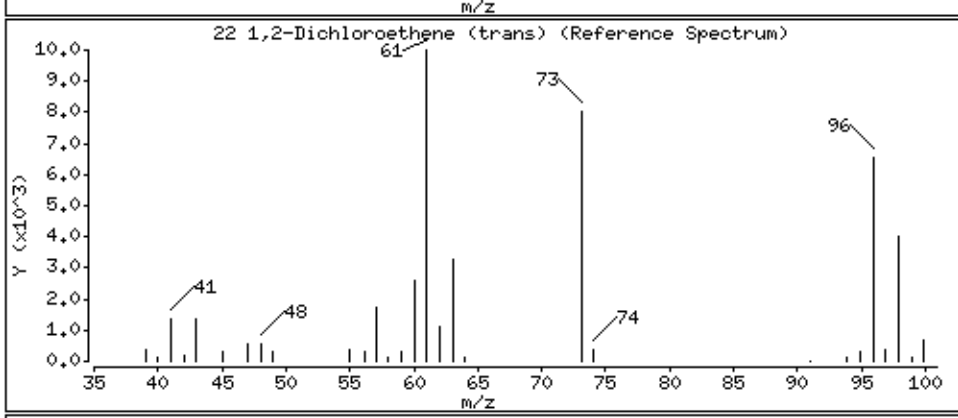
Operator: TMW

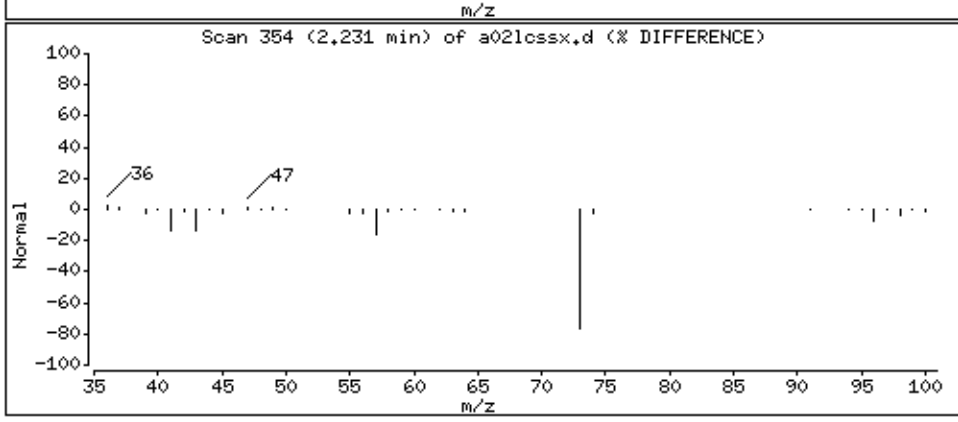
Column phase: DB-624 Column diameter: 0.18

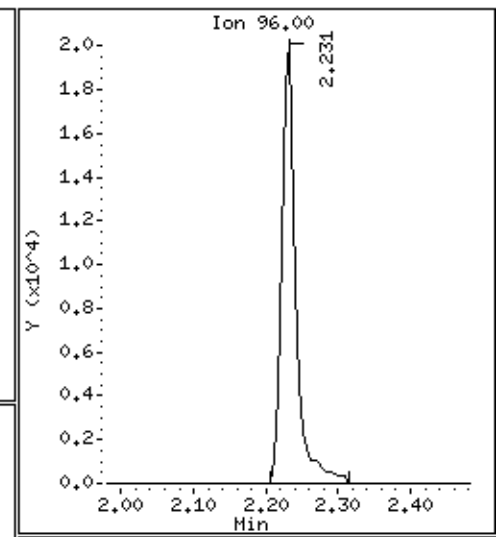
22 1,2-Dichloroethene (trans) Concentration: 48.7 ppb

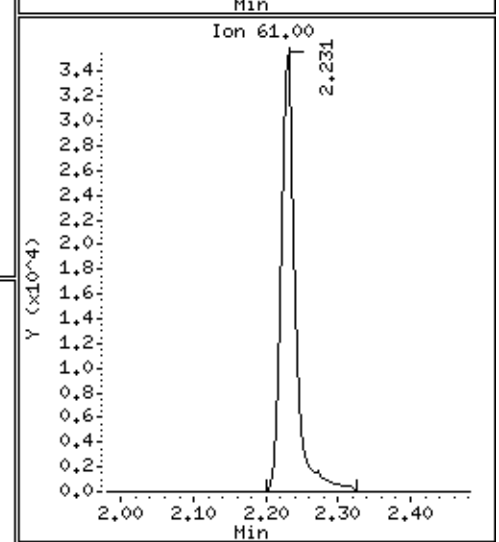


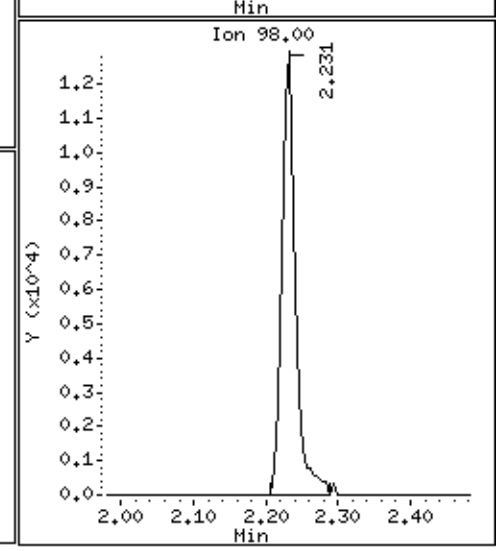












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

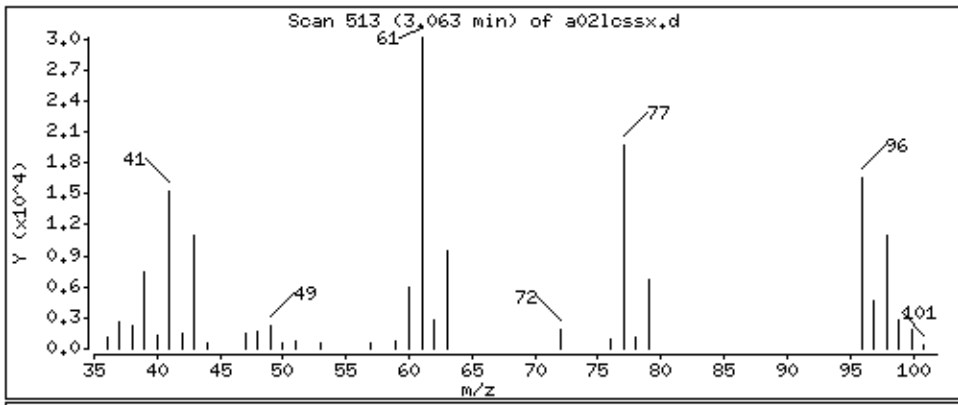
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

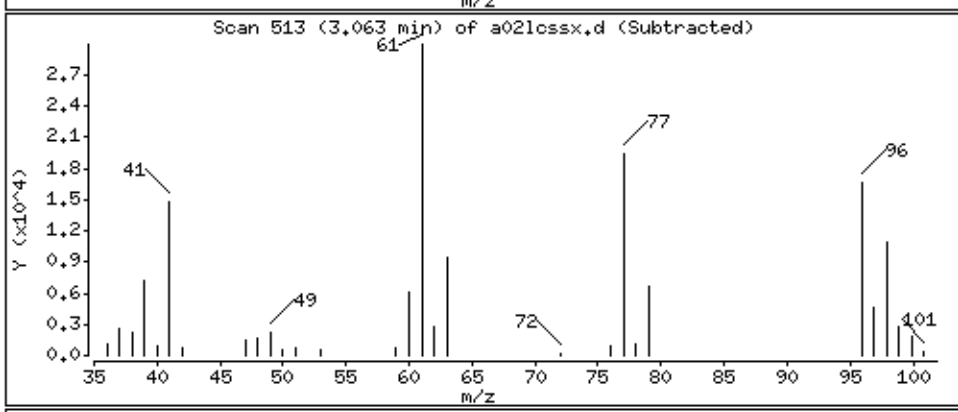
Sample Info: 1710450,138812:5

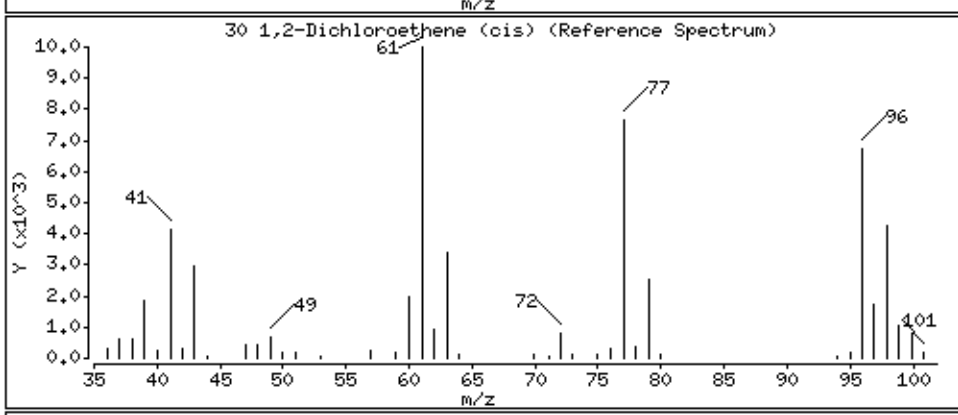
Operator: TMW

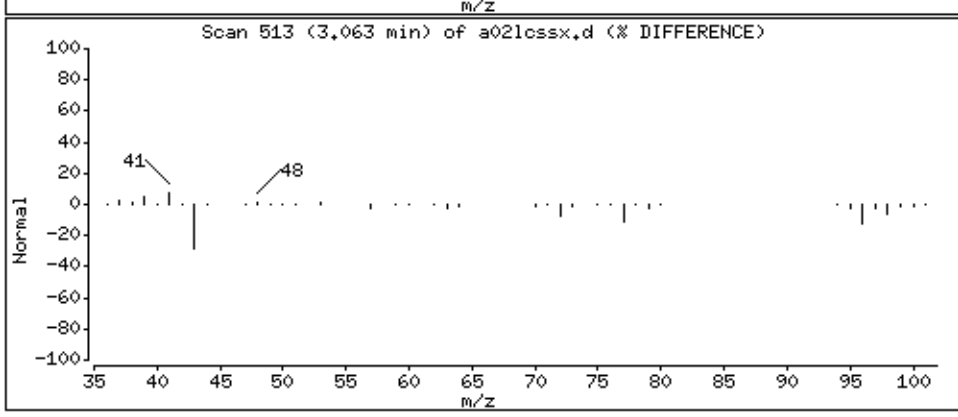
Column phase: DB-624 Column diameter: 0.18

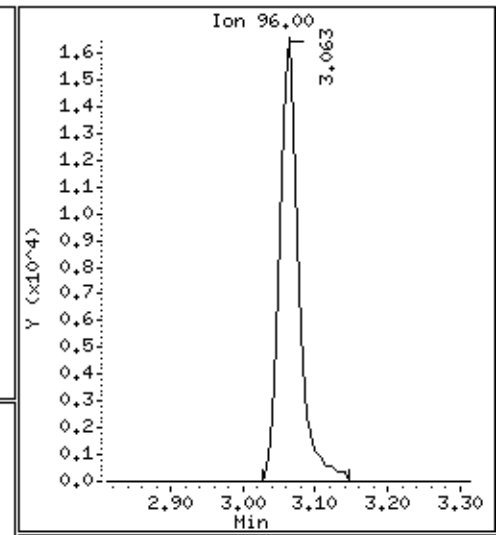
30 1,2-Dichloroethene (cis) Concentration: 48.0 ppb

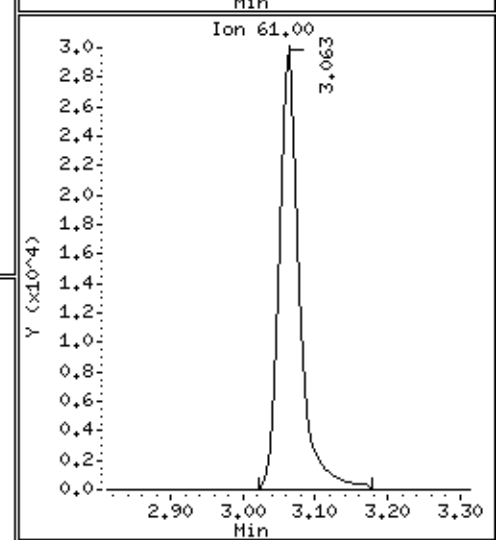


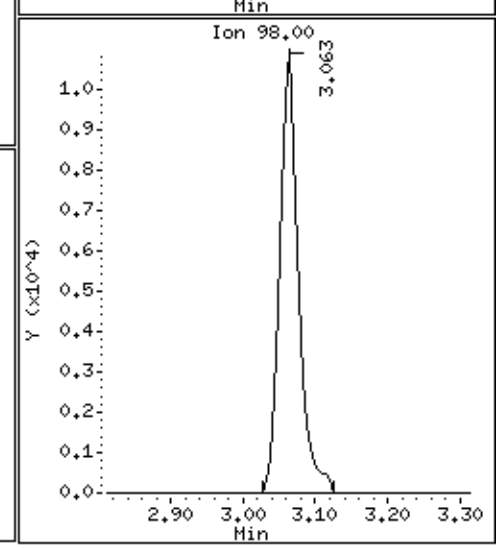












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

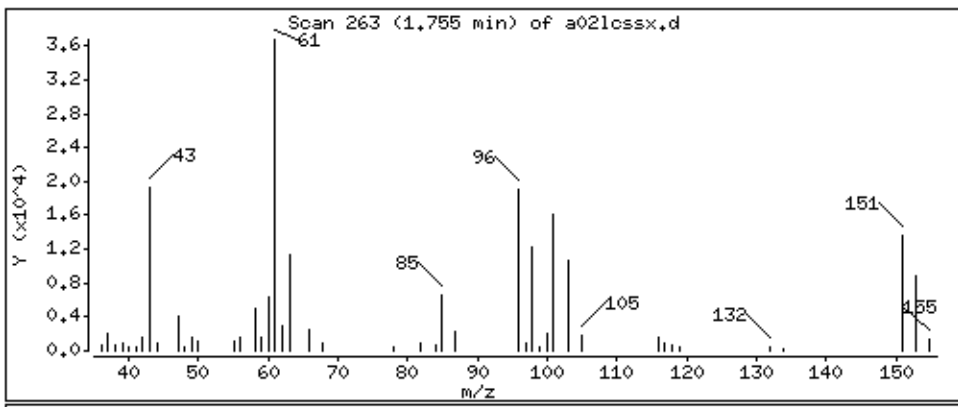
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

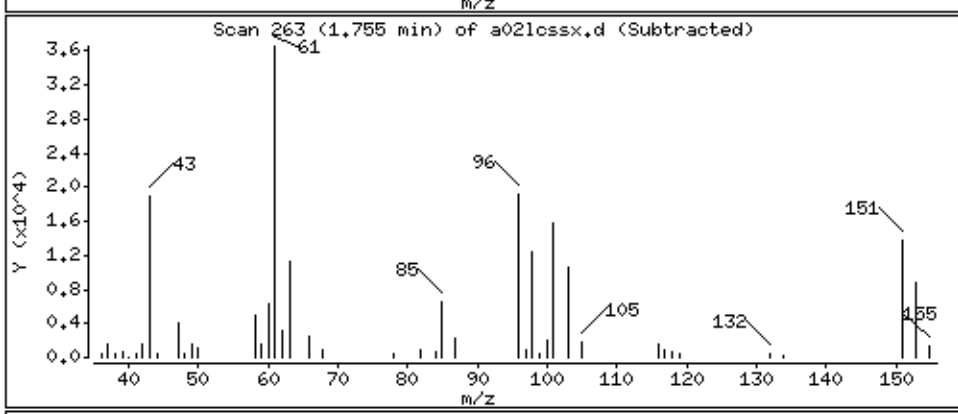
Sample Info: 1710450,138812:5

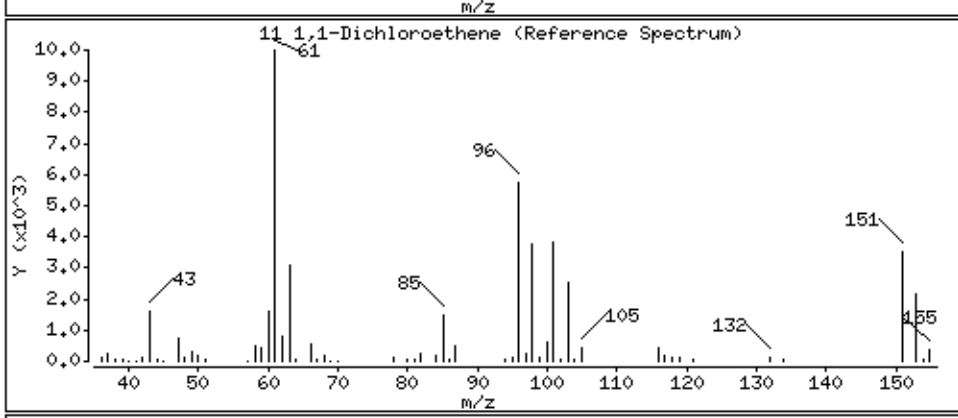
Operator: TMW

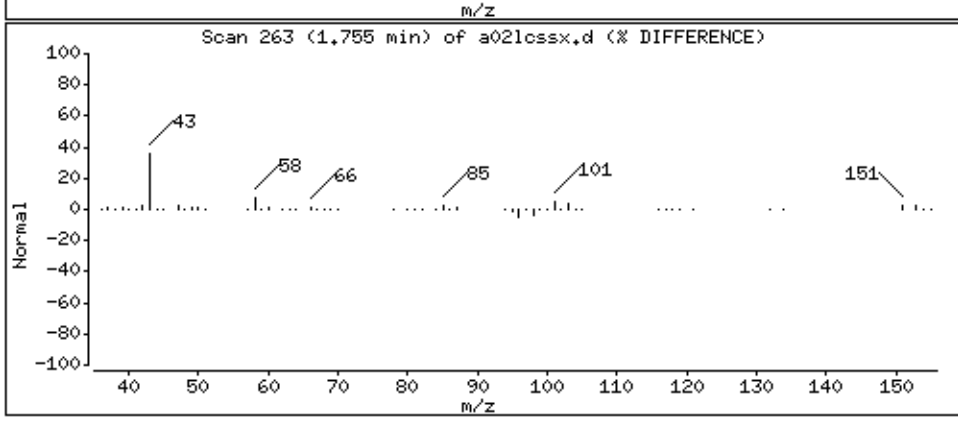
Column phase: DB-624 Column diameter: 0.18

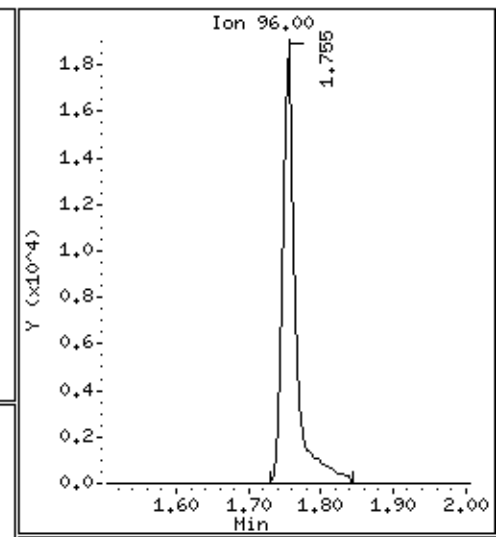
11 1,1-Dichloroethene Concentration: 45.8 ppb

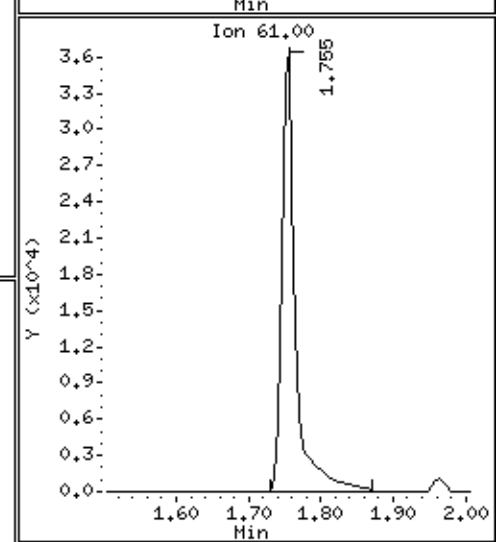


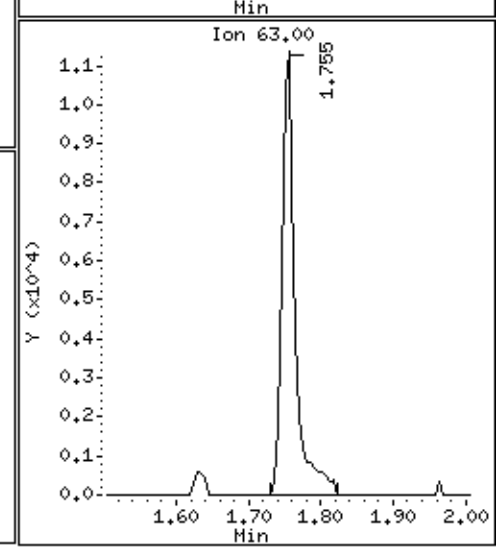












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

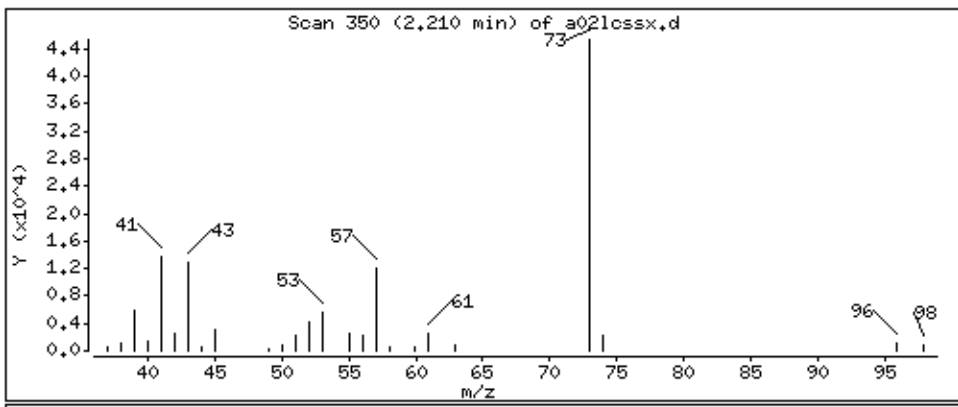
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

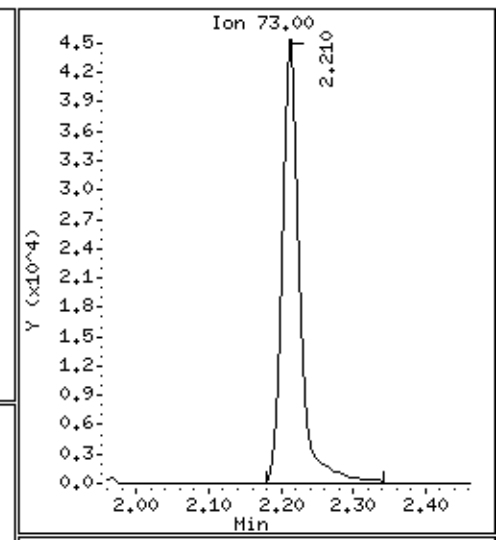
Sample Info: 1710450,138812:5

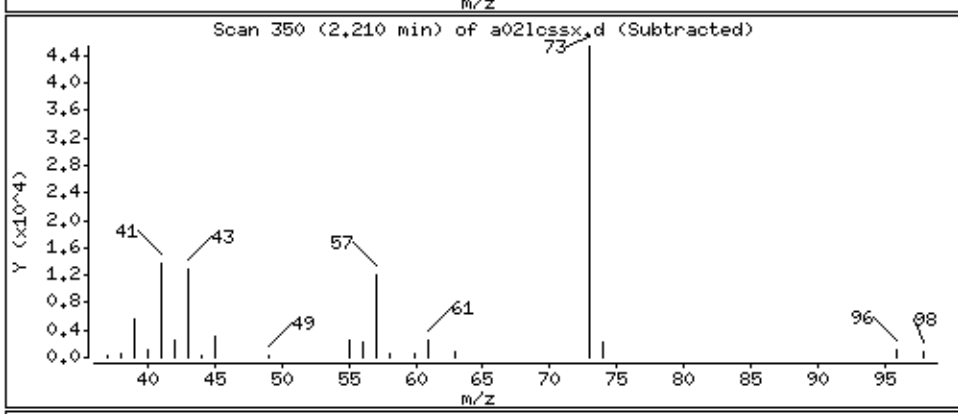
Operator: TMW

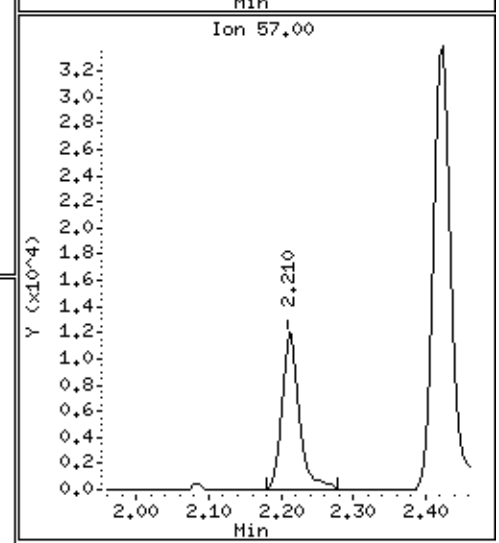
Column phase: DB-624 Column diameter: 0.18

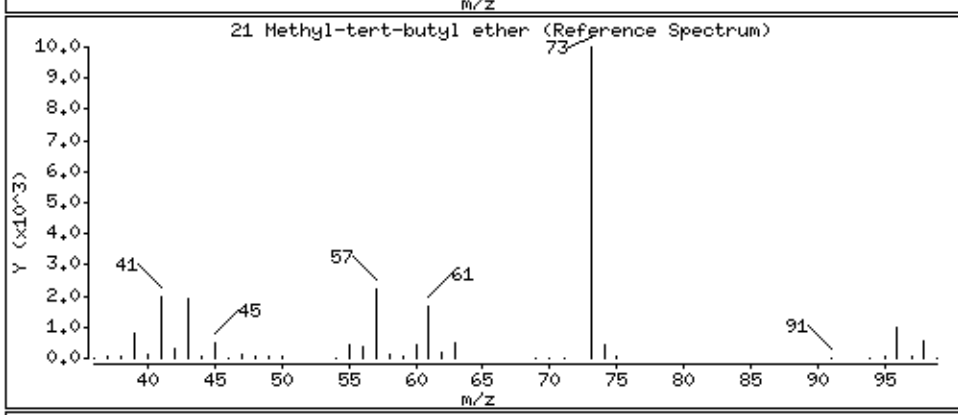
21 Methyl-tert-butyl ether Concentration: 48.1 ppb

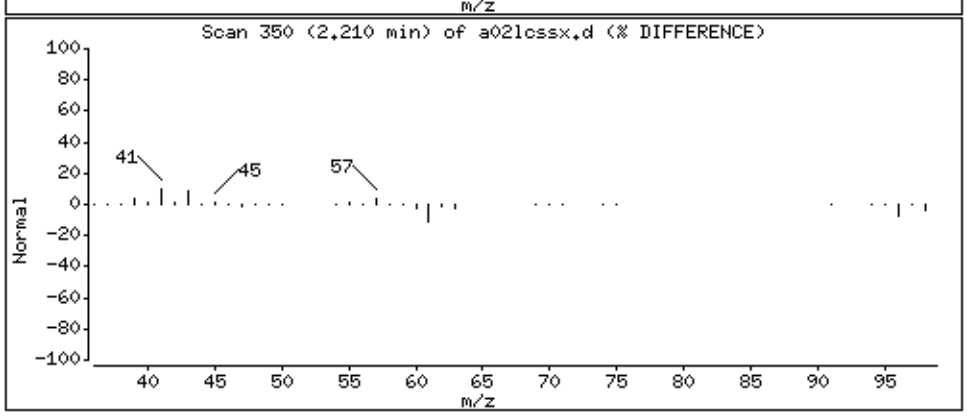












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Date : 18-JAN-2017 13:16

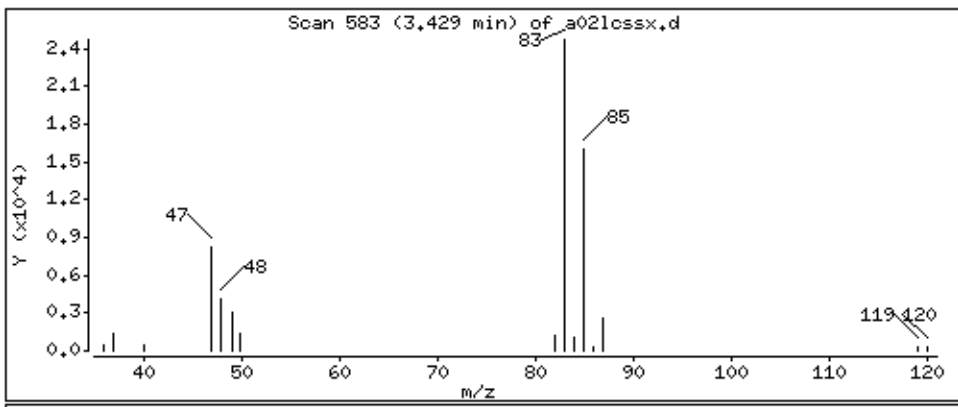
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

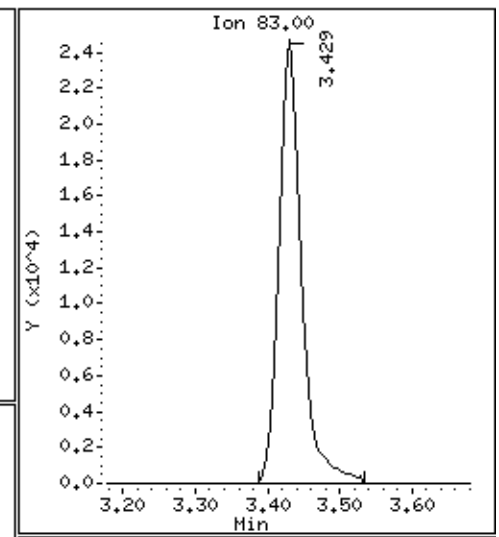
Sample Info: 1710450,138812:5

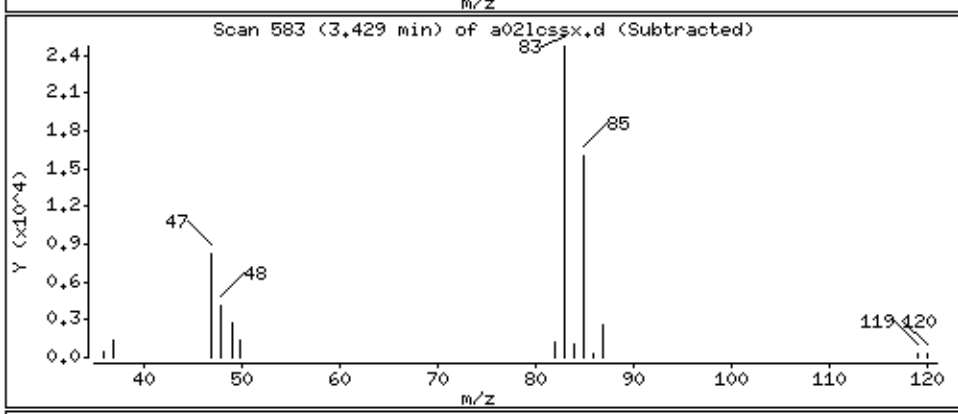
Operator: TMW

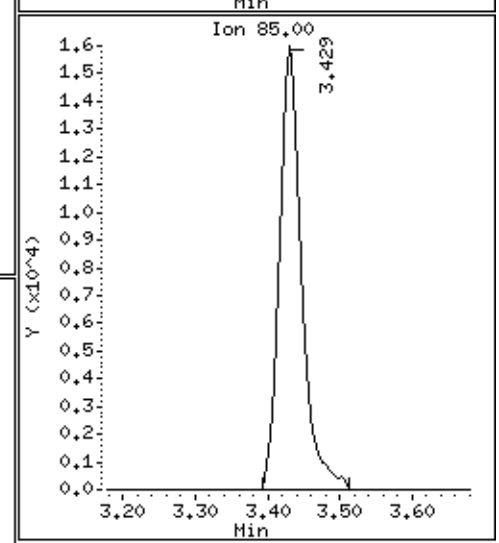
Column phase: DB-624 Column diameter: 0.18

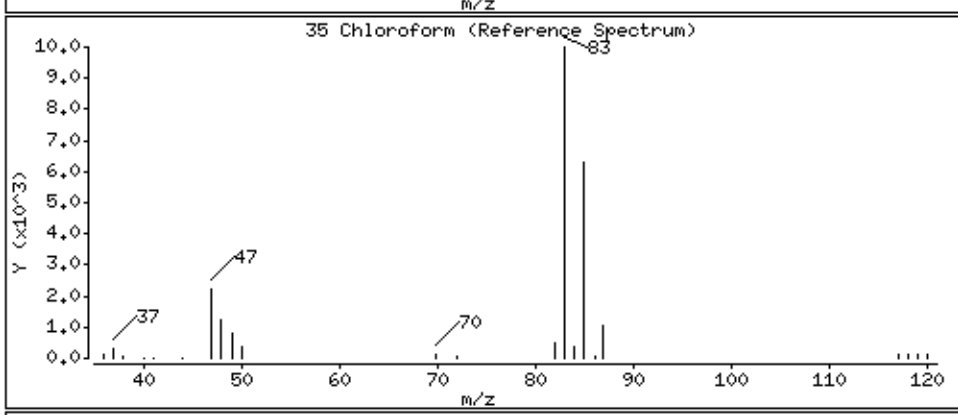
35 Chloroform Concentration: 46.9 ppb

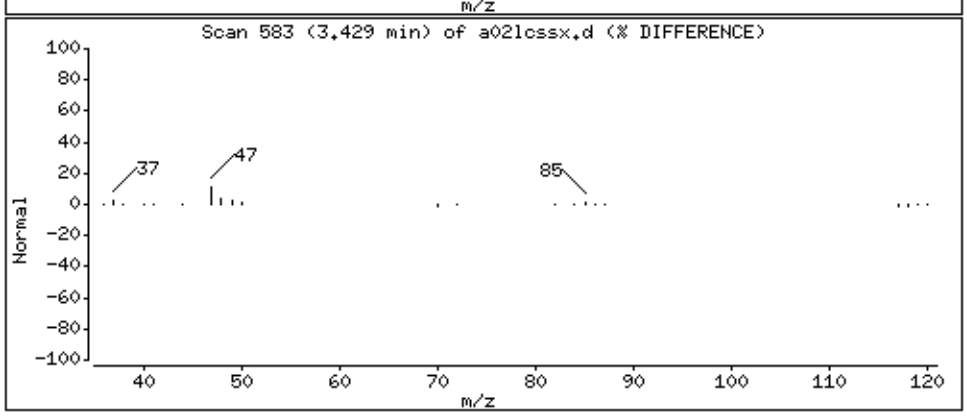












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Date : 18-JAN-2017 13:16

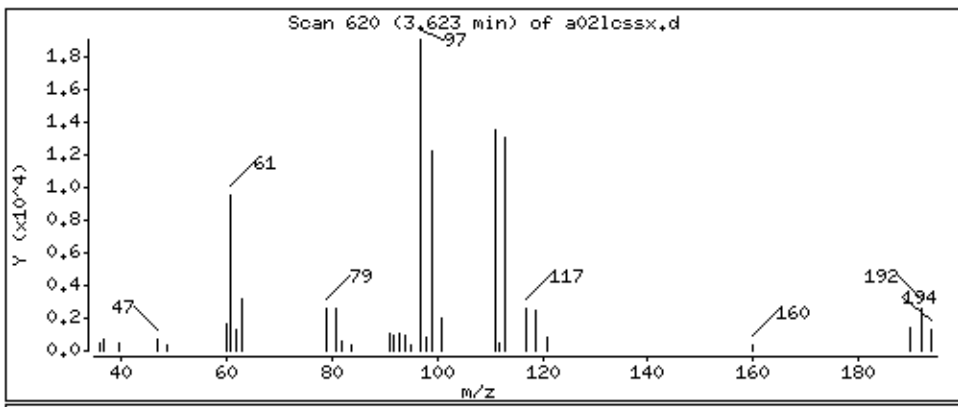
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

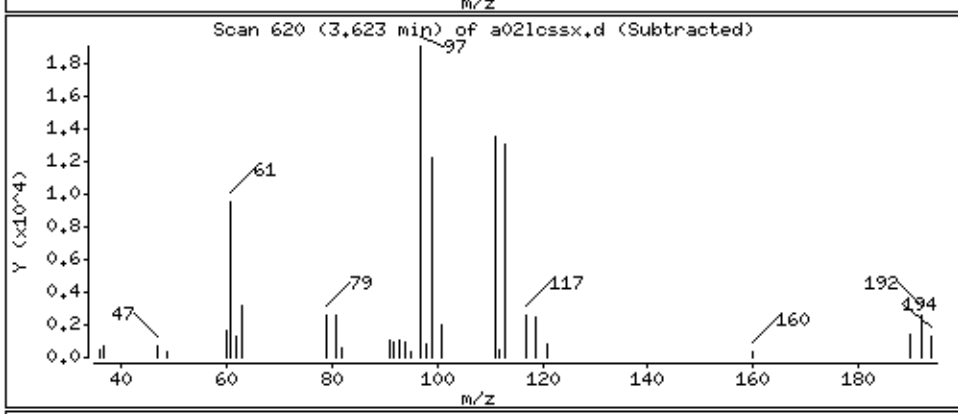
Sample Info: 1710450,138812:5

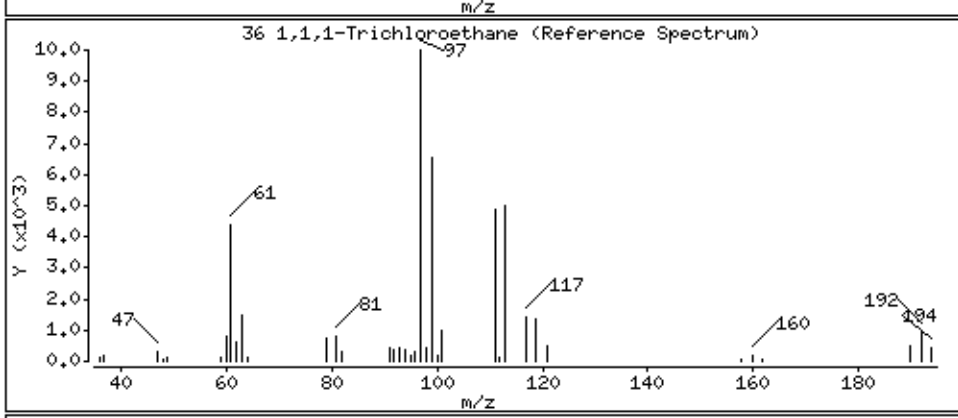
Operator: TMW

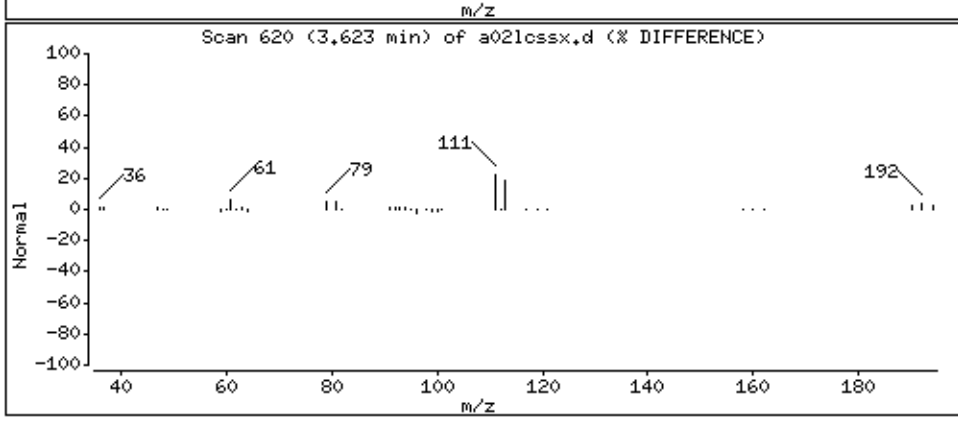
Column phase: DB-624 Column diameter: 0.18

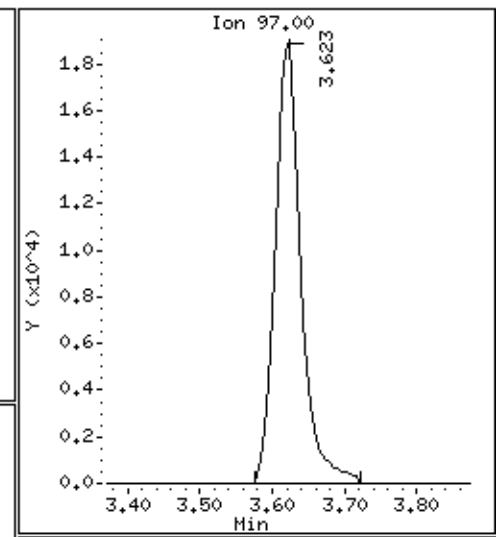
36 1,1,1-Trichloroethane Concentration: 48.4 ppb

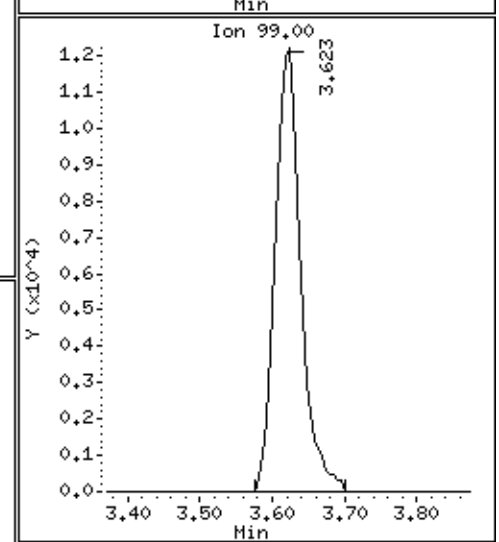


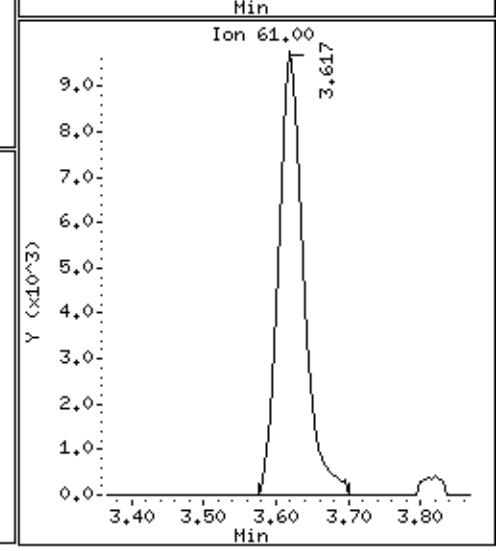












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

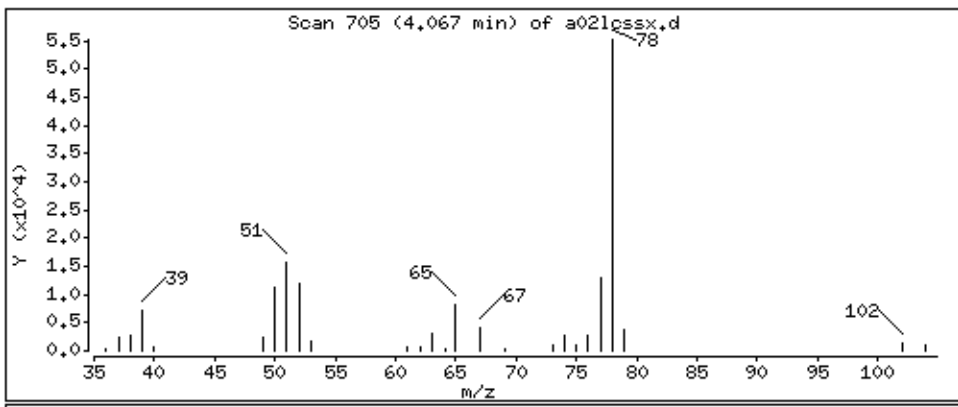
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

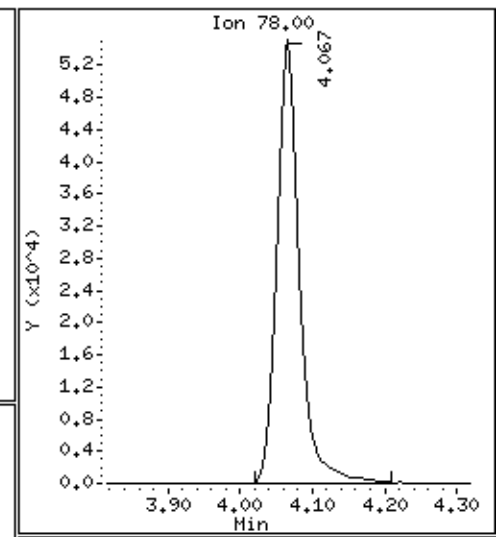
Sample Info: 1710450,138812:5

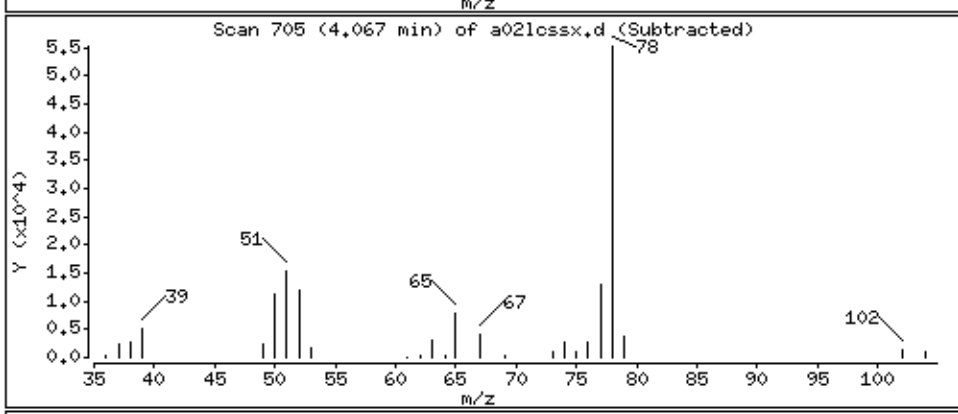
Operator: TMW

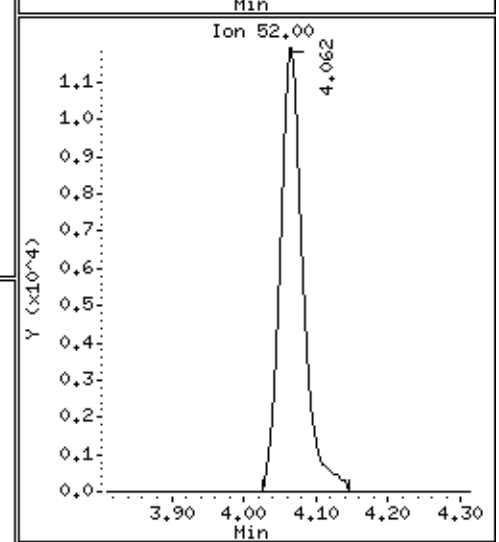
Column phase: DB-624 Column diameter: 0.18

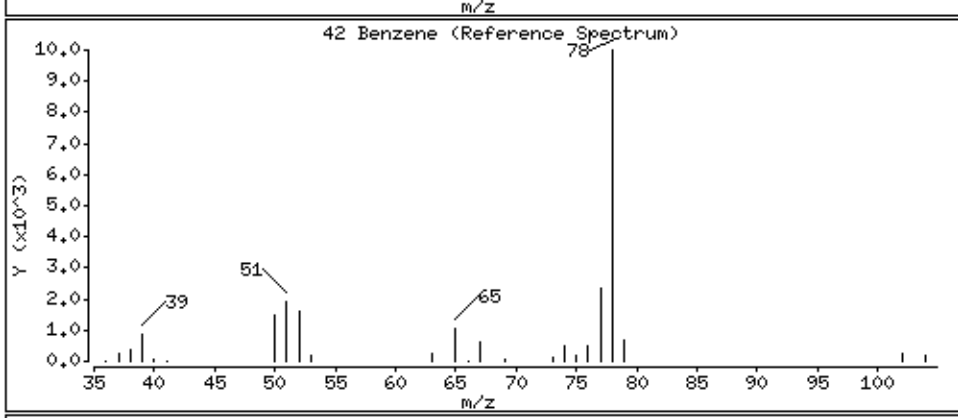
42 Benzene Concentration: 45.3 ppb

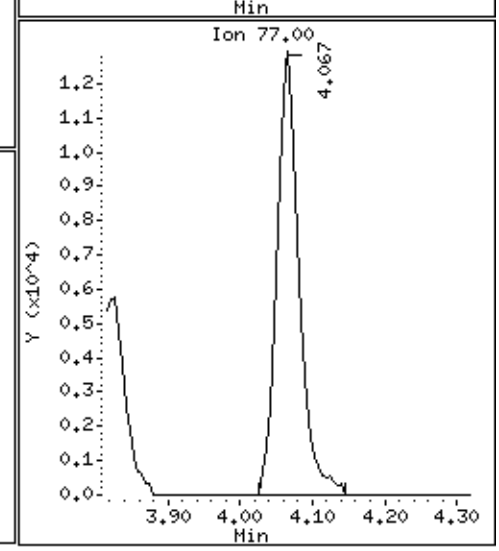


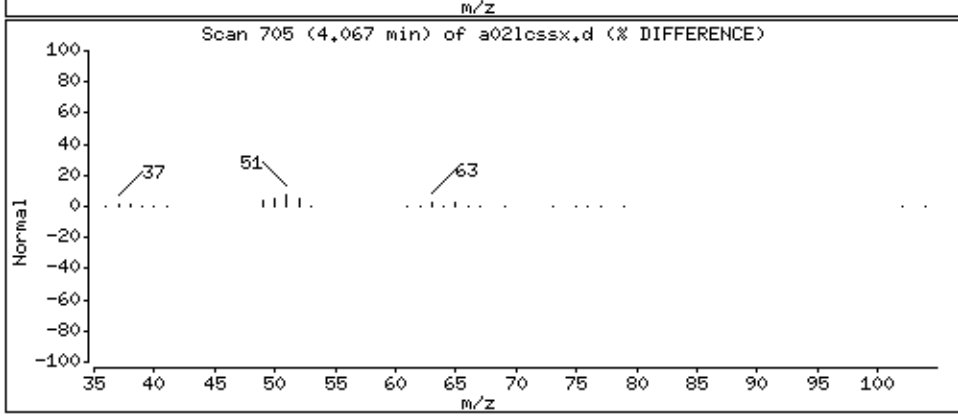












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

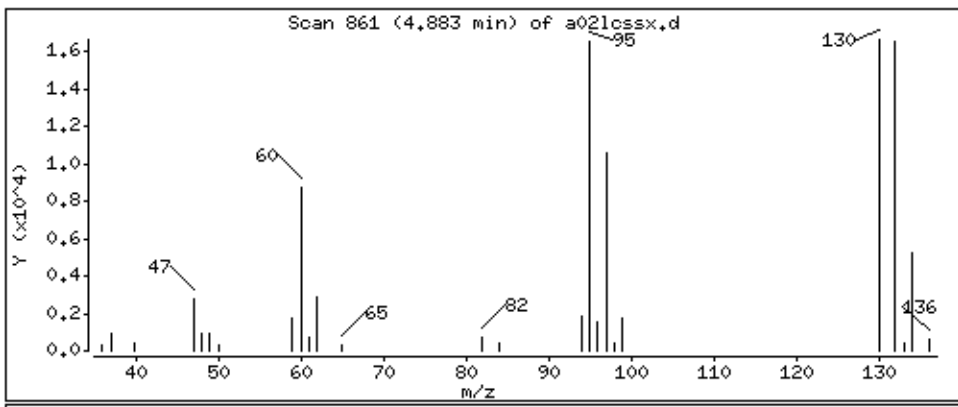
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

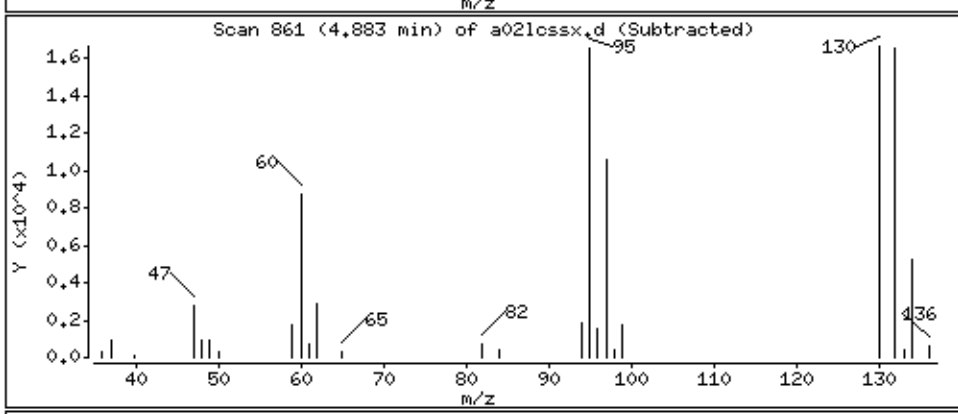
Sample Info: 1710450,138812:5

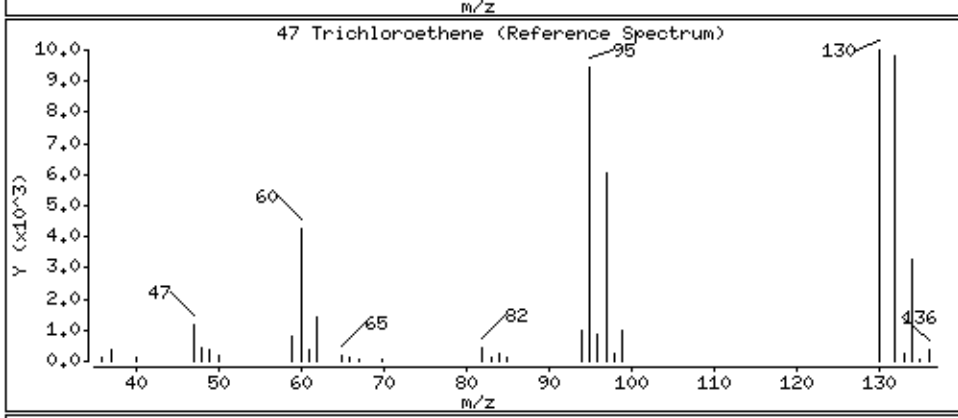
Operator: TMW

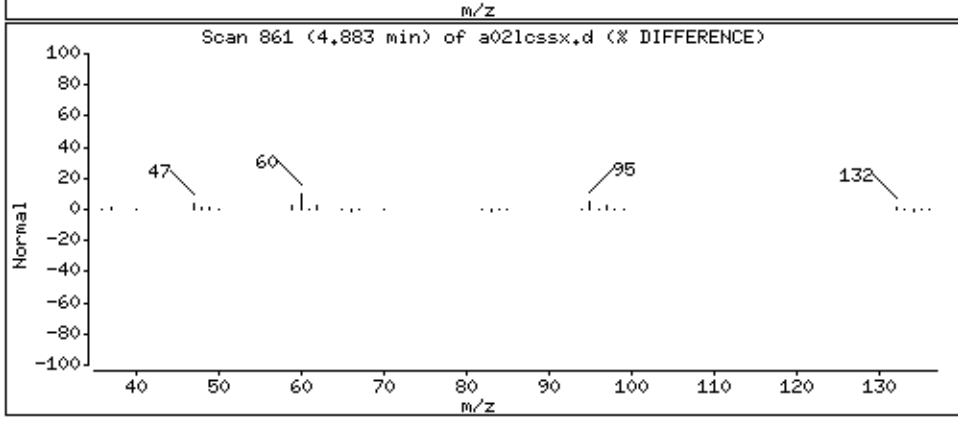
Column phase: DB-624 Column diameter: 0.18

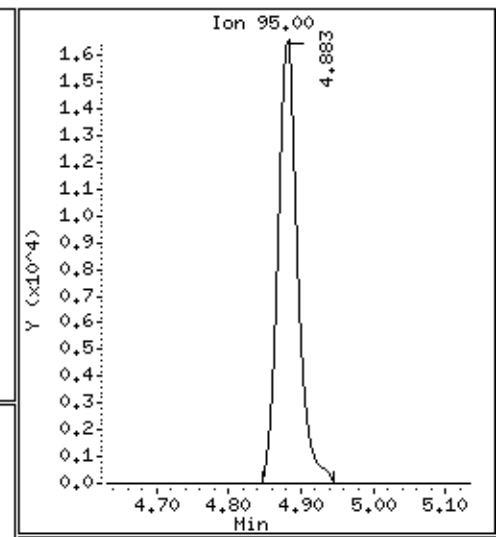
47 Trichloroethene Concentration: 47.4 ppb

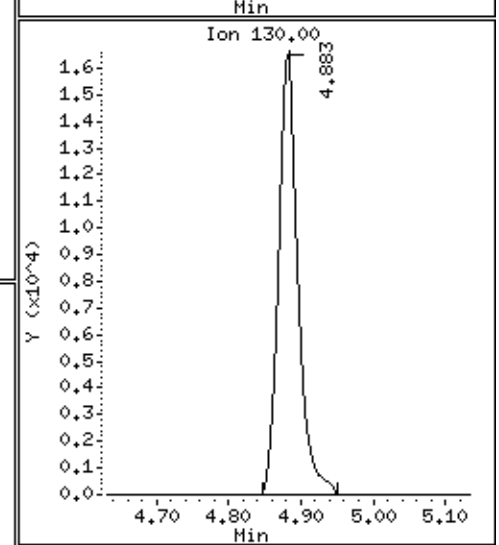


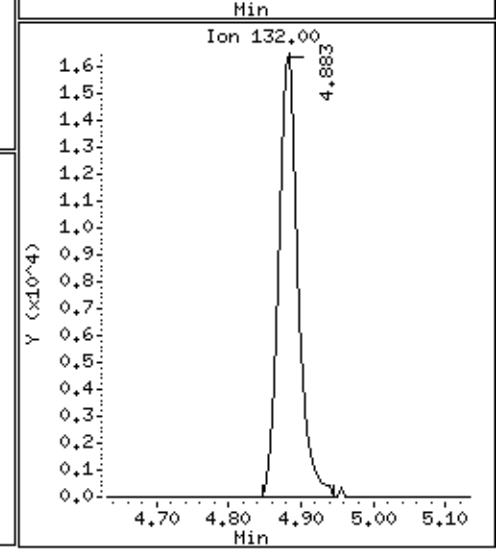












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

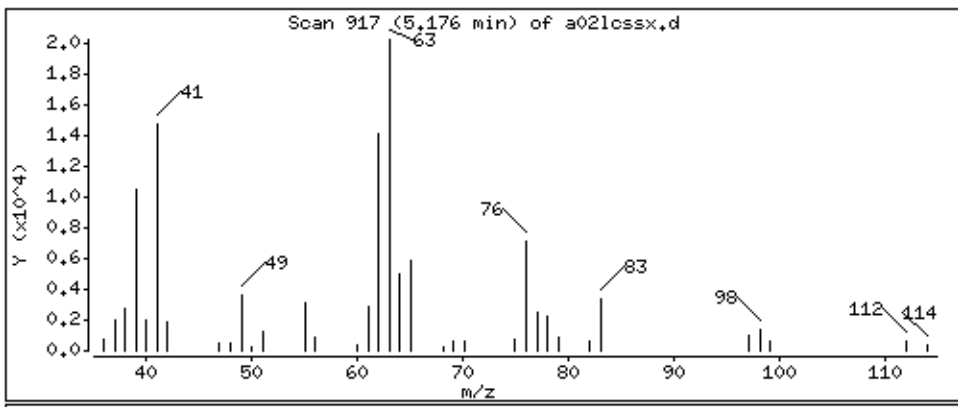
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

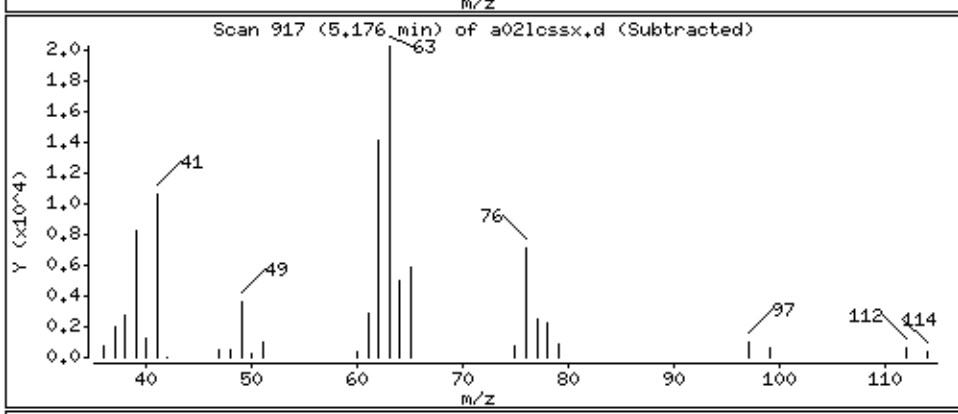
Sample Info: 1710450,138812:5

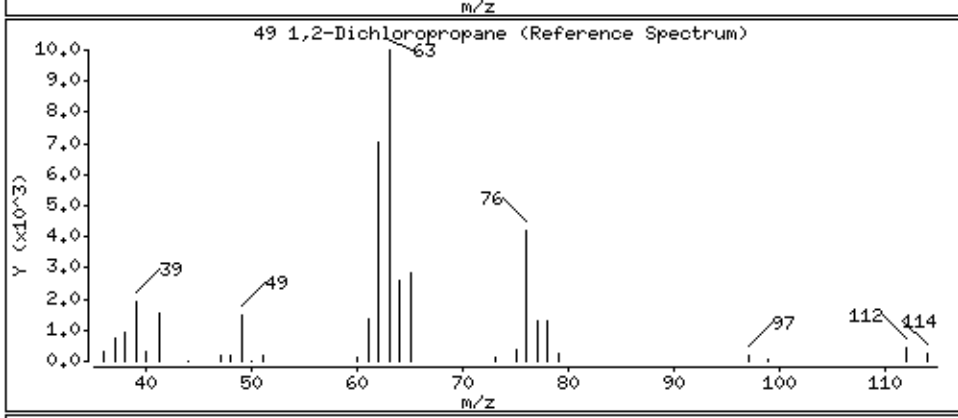
Operator: TMW

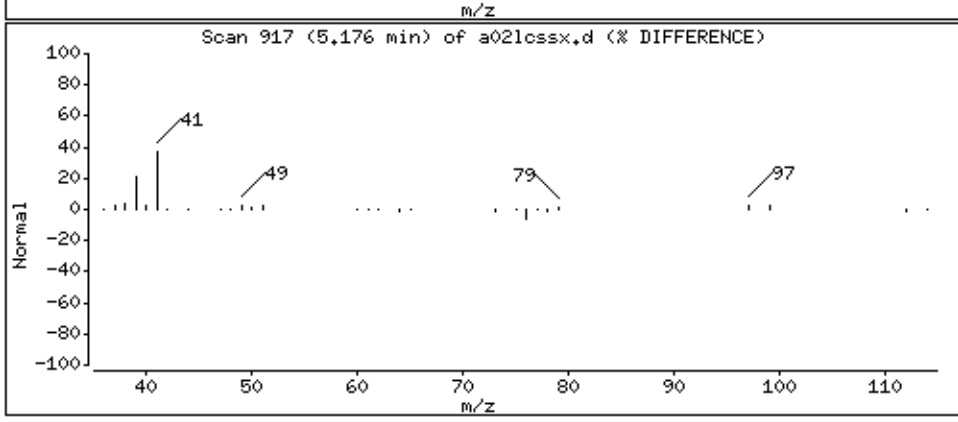
Column phase: DB-624 Column diameter: 0.18

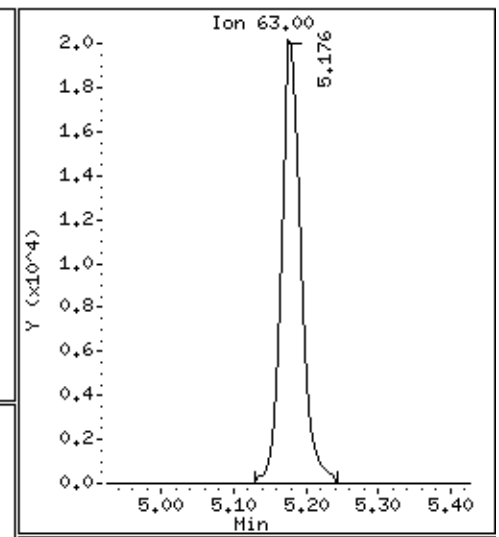
49 1,2-Dichloropropane Concentration: 52.2 ppb

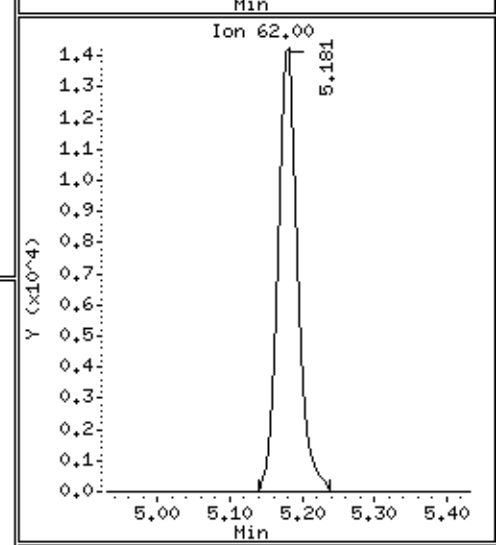


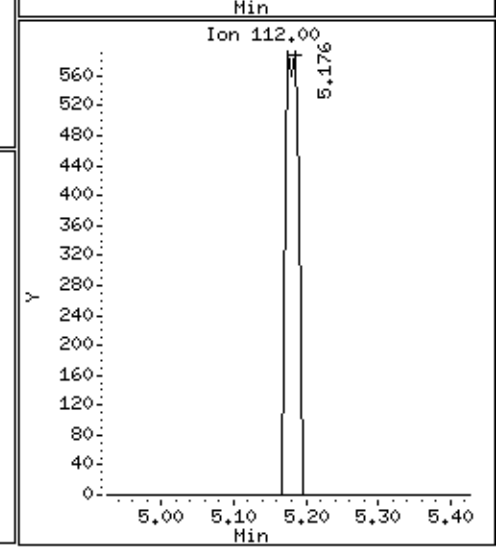












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

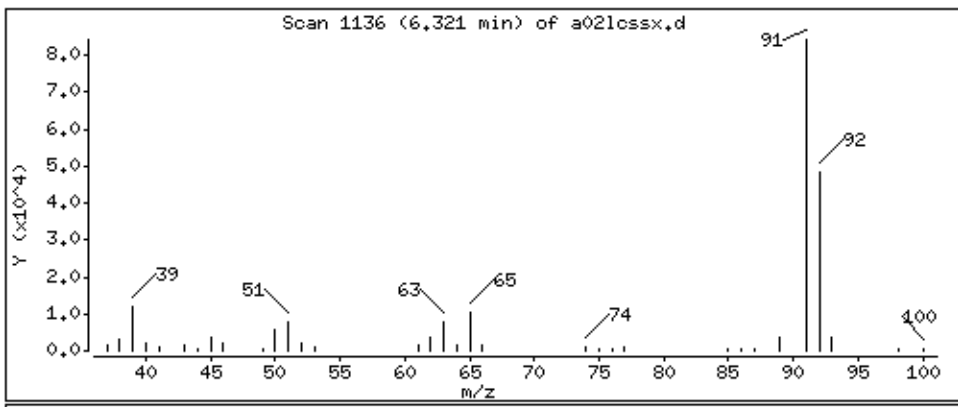
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

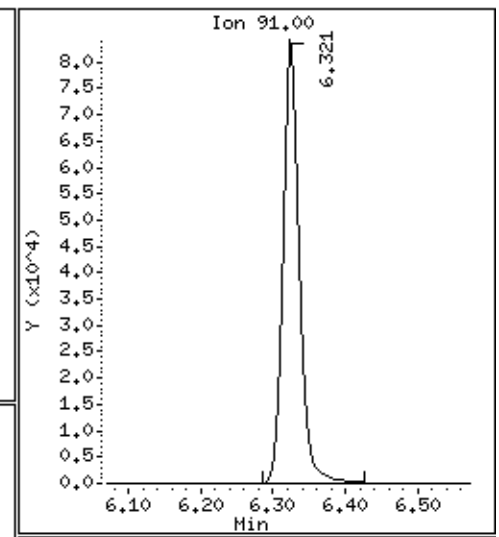
Sample Info: 1710450,138812:5

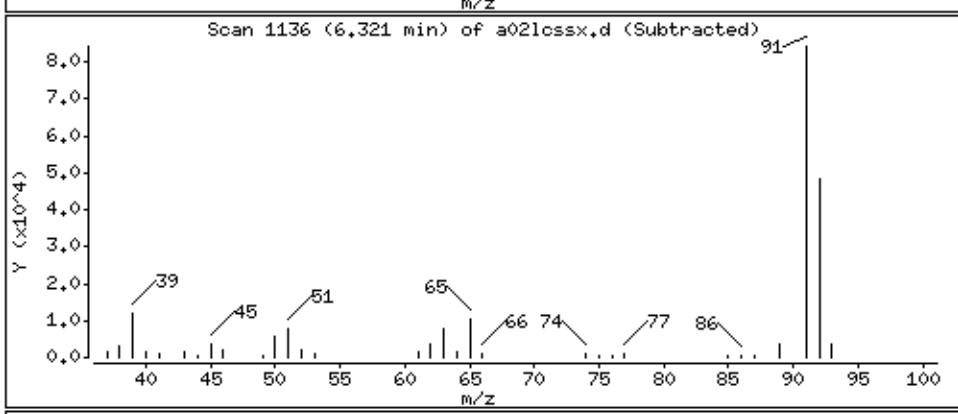
Operator: TMW

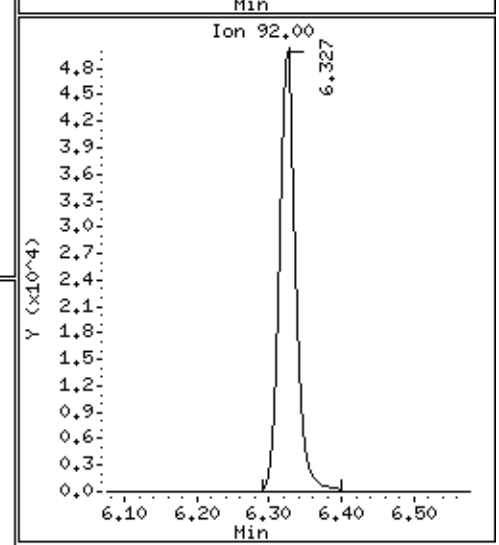
Column phase: DB-624 Column diameter: 0.18

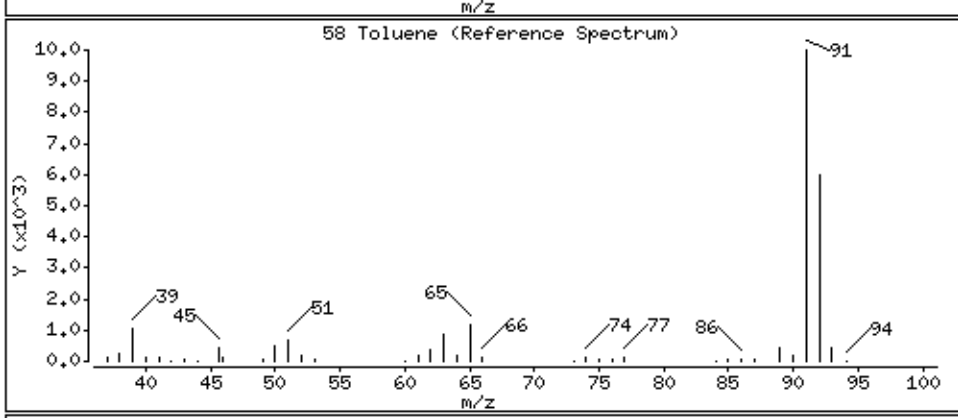
58 Toluene Concentration: 47.8 ppb

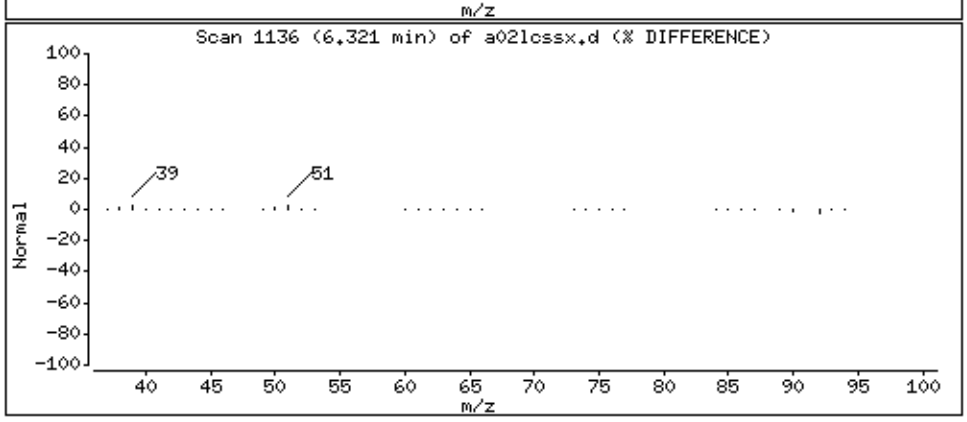












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

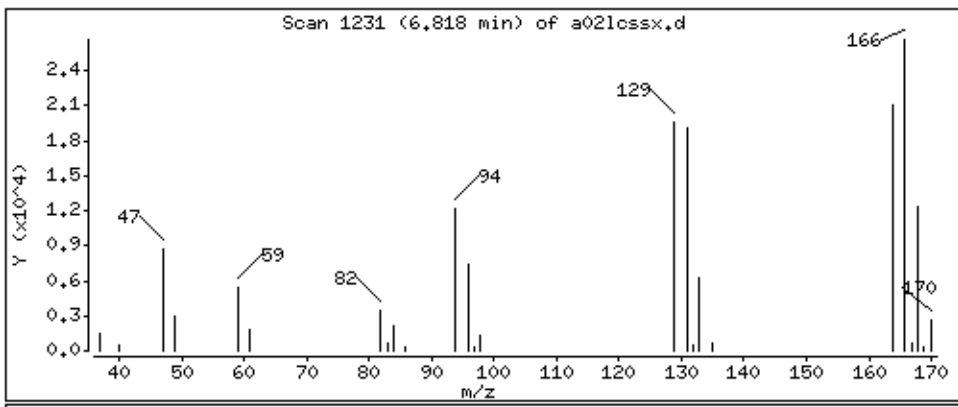
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

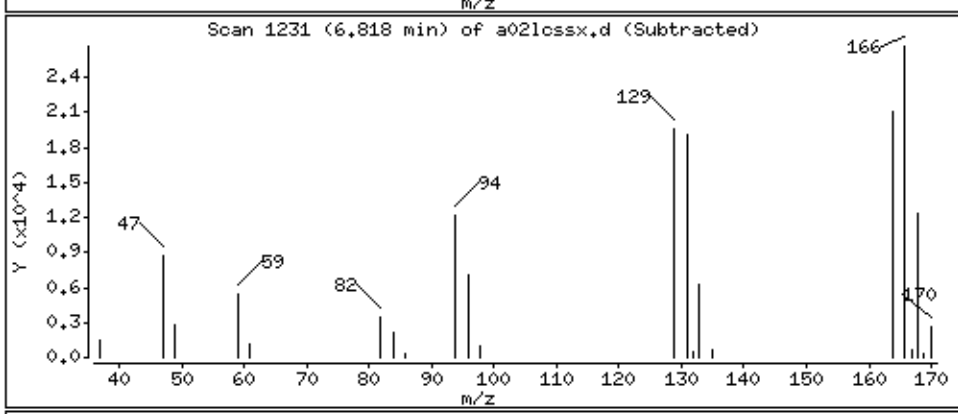
Sample Info: 1710450,138812:5

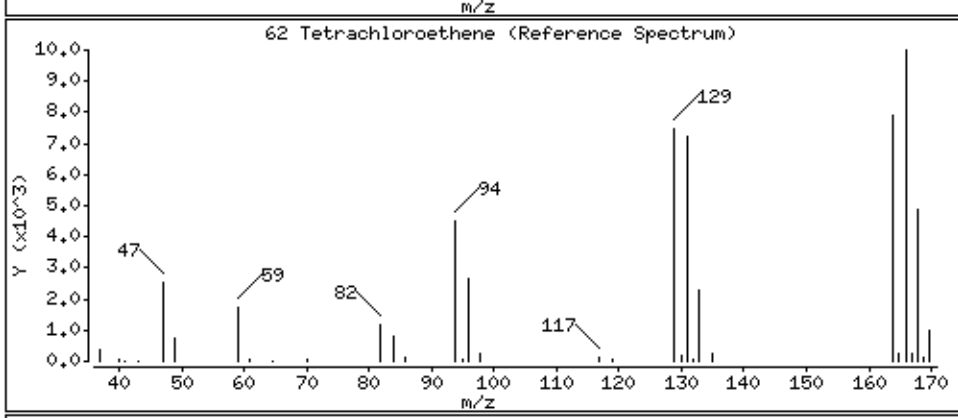
Operator: TMW

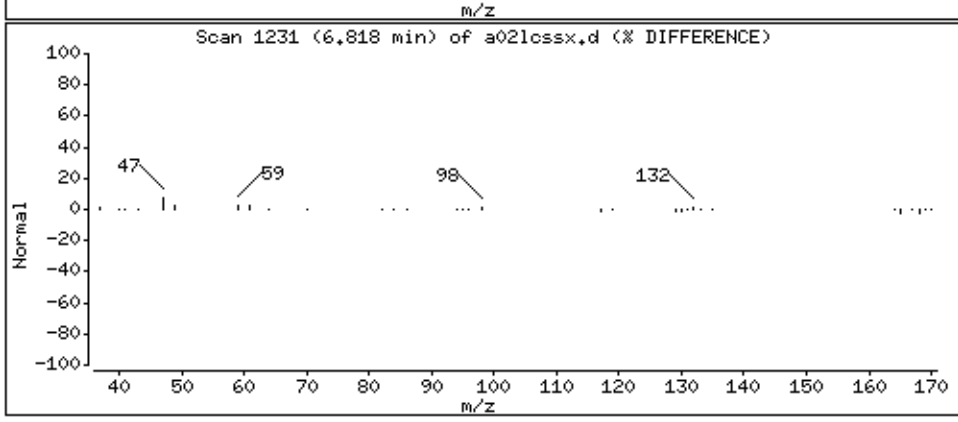
Column phase: DB-624 Column diameter: 0.18

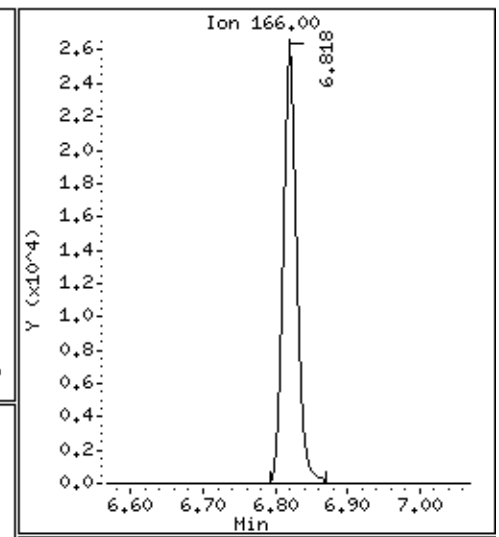
62 Tetrachloroethene Concentration: 47.1 ppb

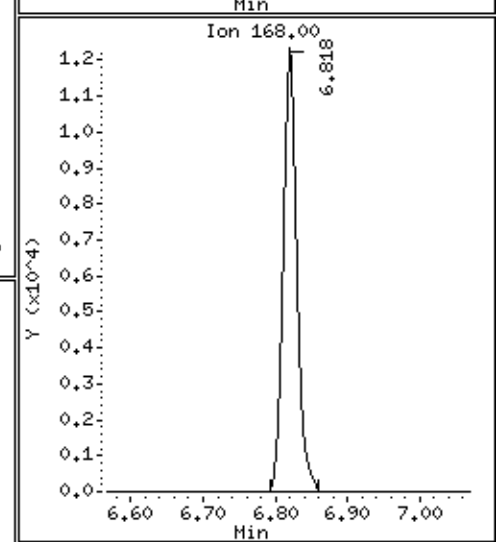


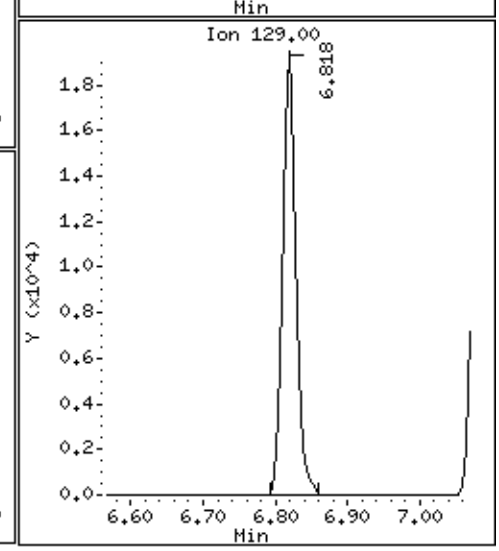












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

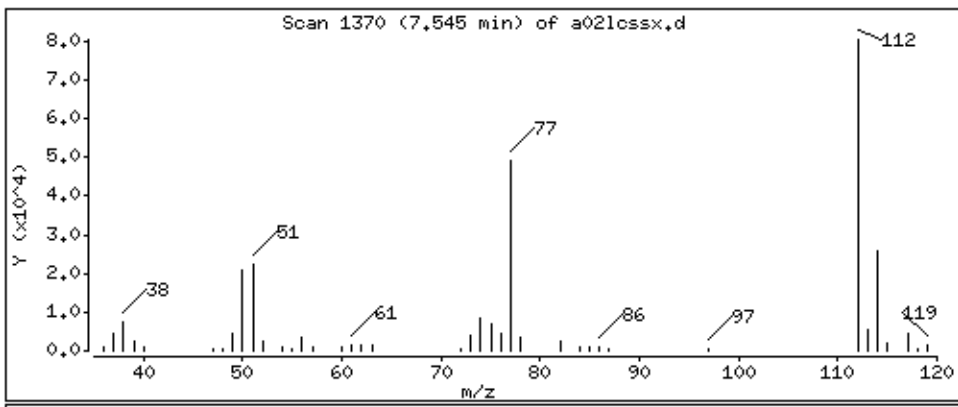
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

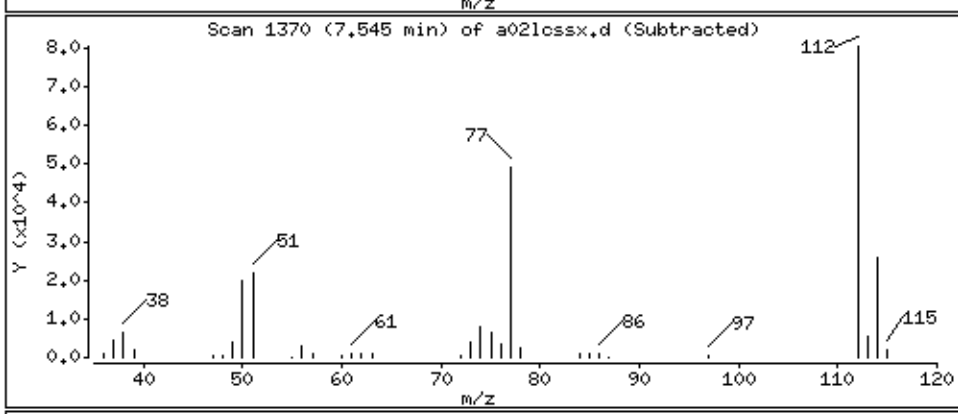
Sample Info: 1710450,138812:5

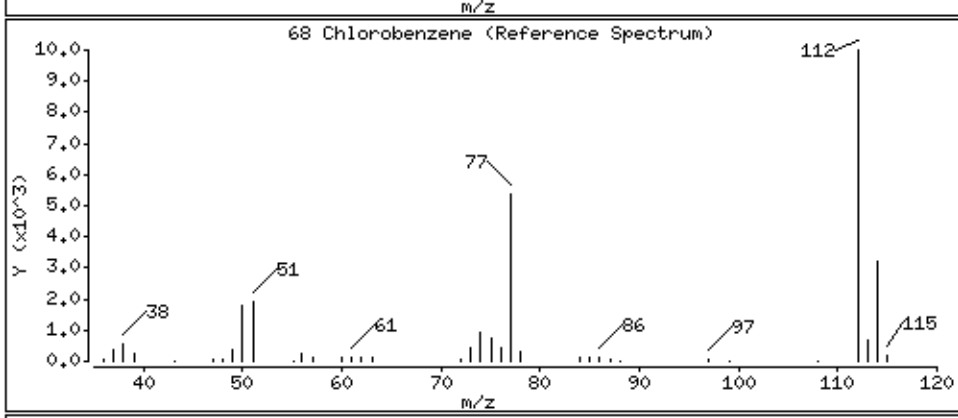
Operator: TMW

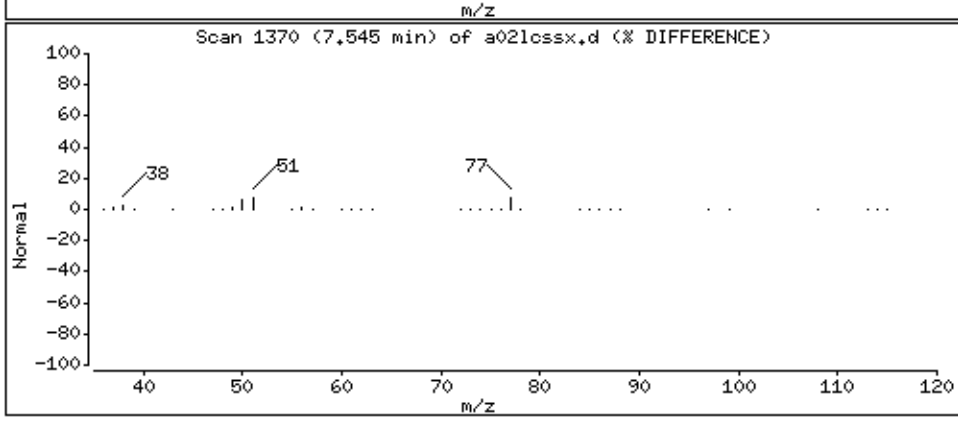
Column phase: DB-624 Column diameter: 0.18

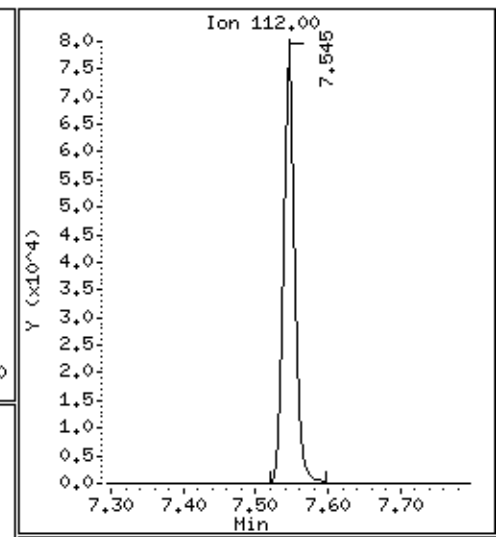
68 Chlorobenzene Concentration: 46.7 ppb

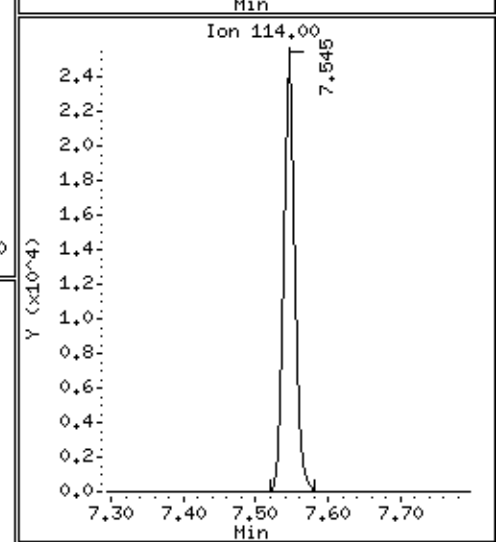


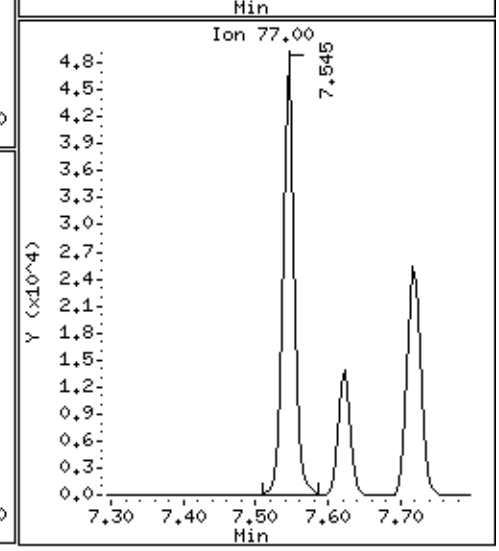












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

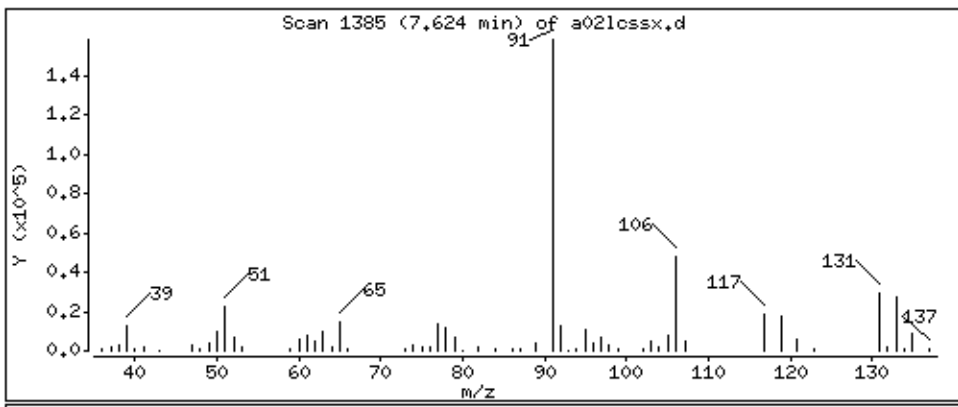
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

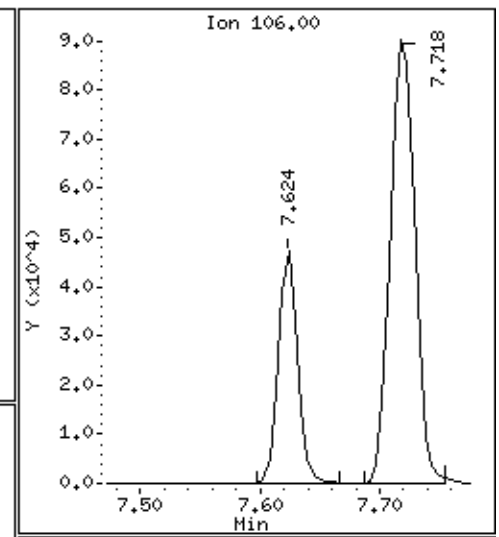
Sample Info: 1710450,138812:5

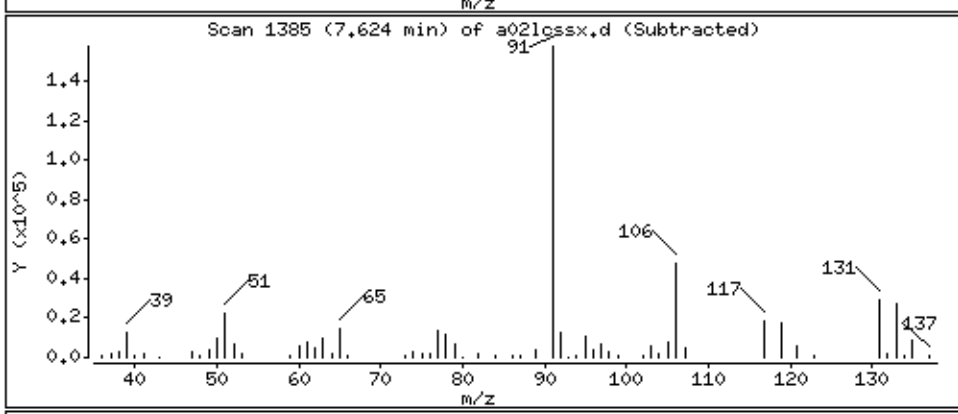
Operator: TMW

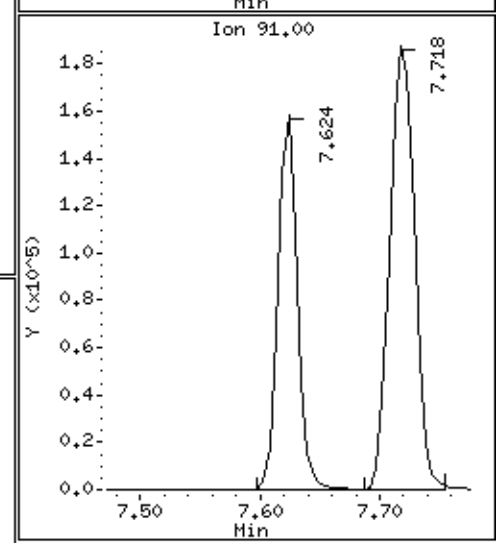
Column phase: DB-624 Column diameter: 0.18

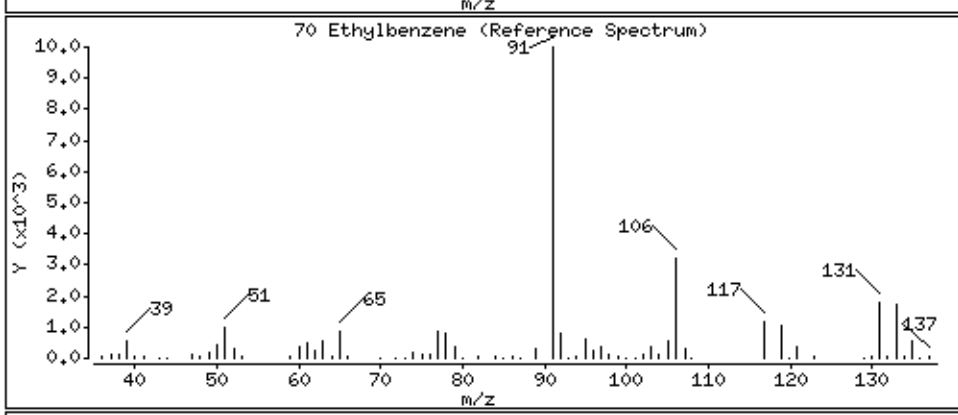
70 Ethylbenzene Concentration: 46.6 ppb

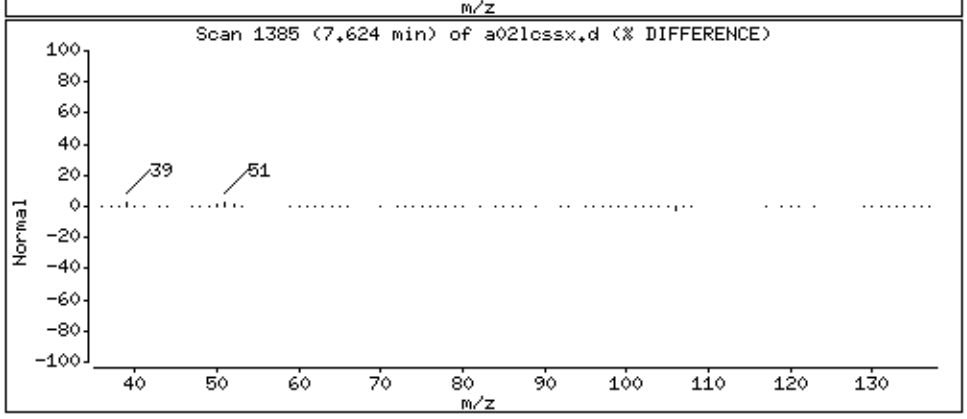












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Date : 18-JAN-2017 13:16

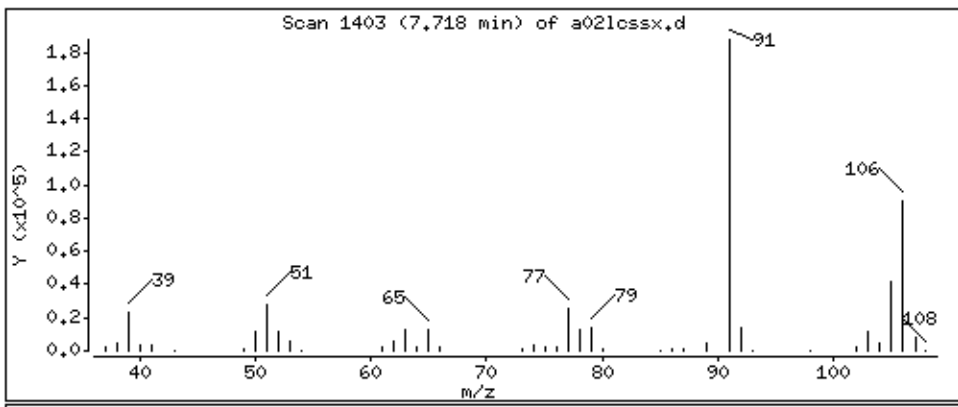
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

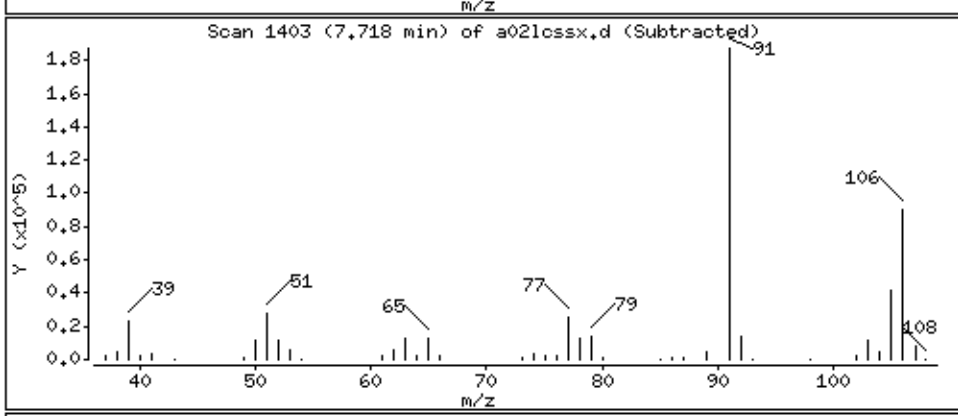
Sample Info: 1710450,138812:5

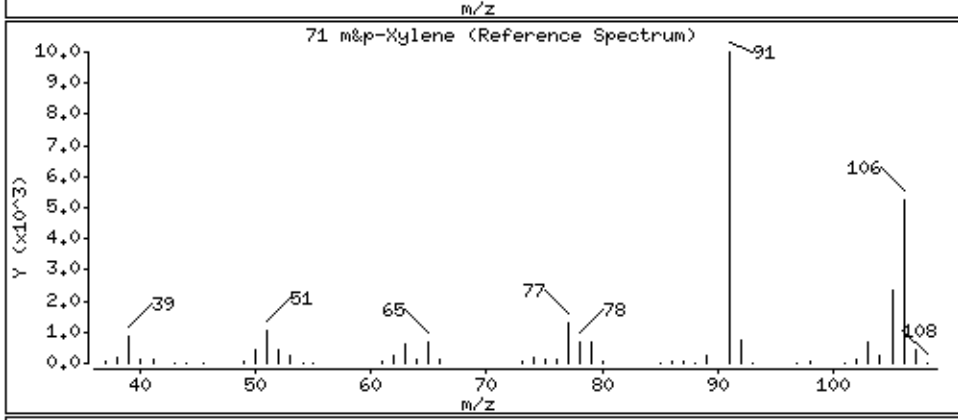
Operator: TMW

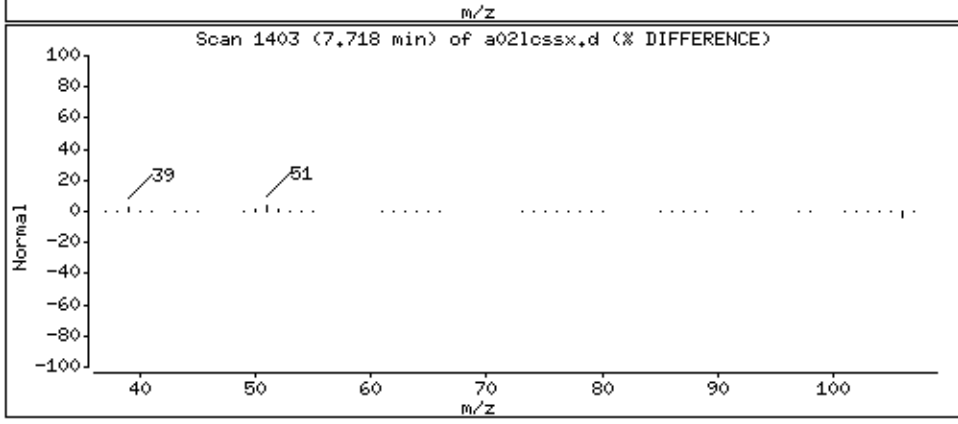
Column phase: DB-624 Column diameter: 0.18

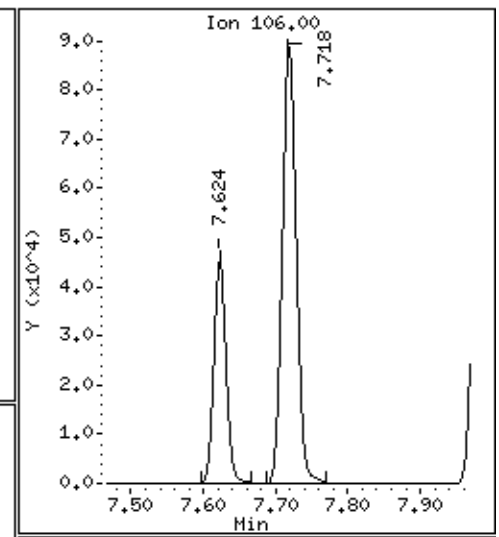
71 m&p-Xylene Concentration: 98.4 ppb

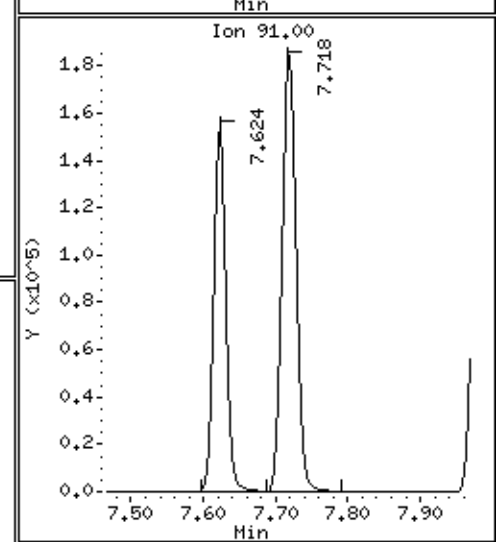


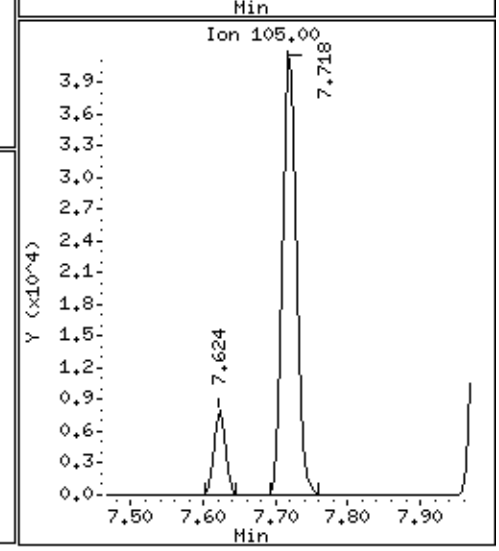












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Date : 18-JAN-2017 13:16

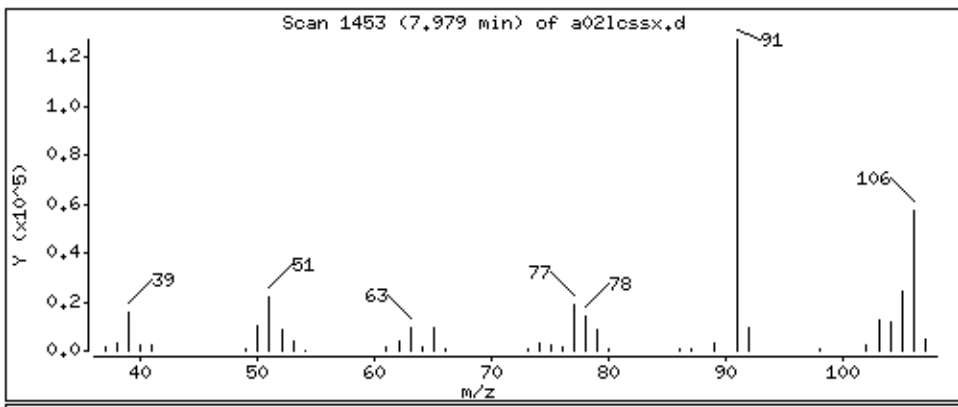
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

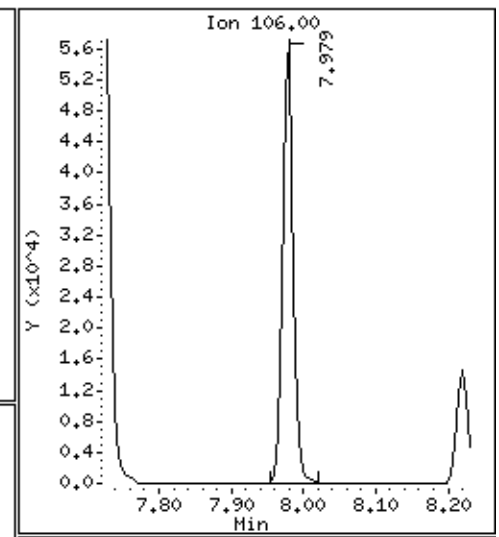
Sample Info: 1710450,138812:5

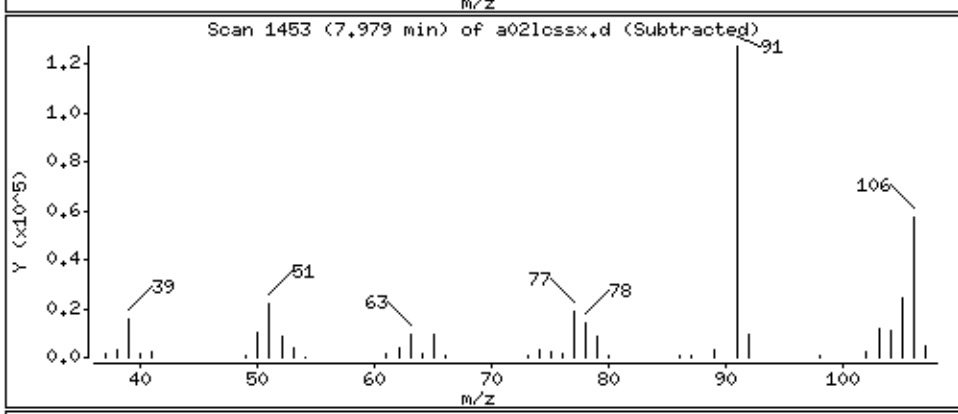
Operator: TMW

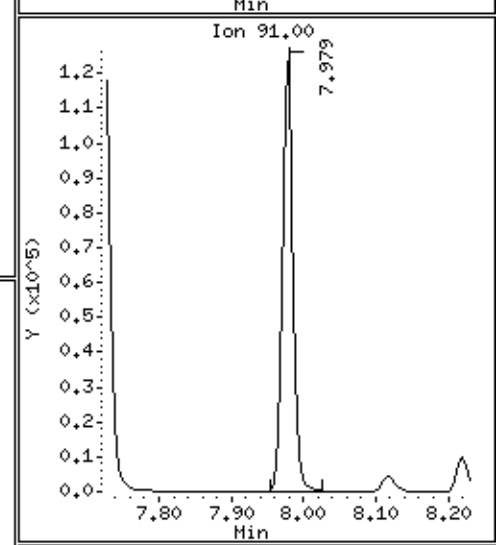
Column phase: DB-624 Column diameter: 0.18

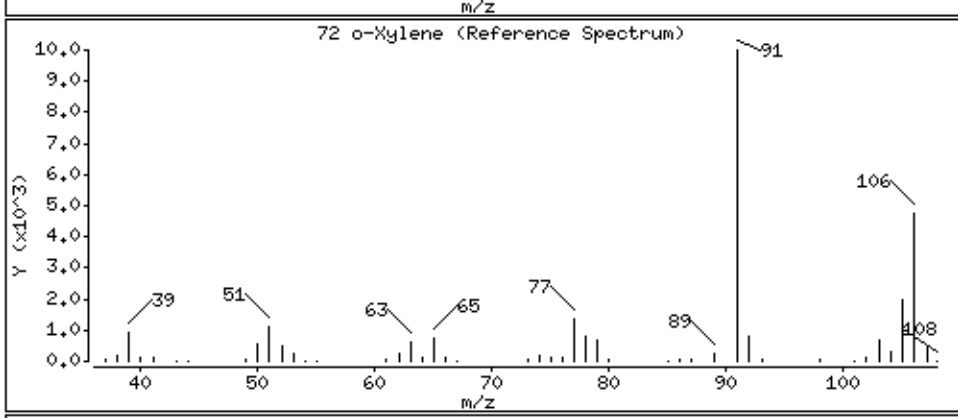
72 o-Xylene Concentration: 45.4 ppb

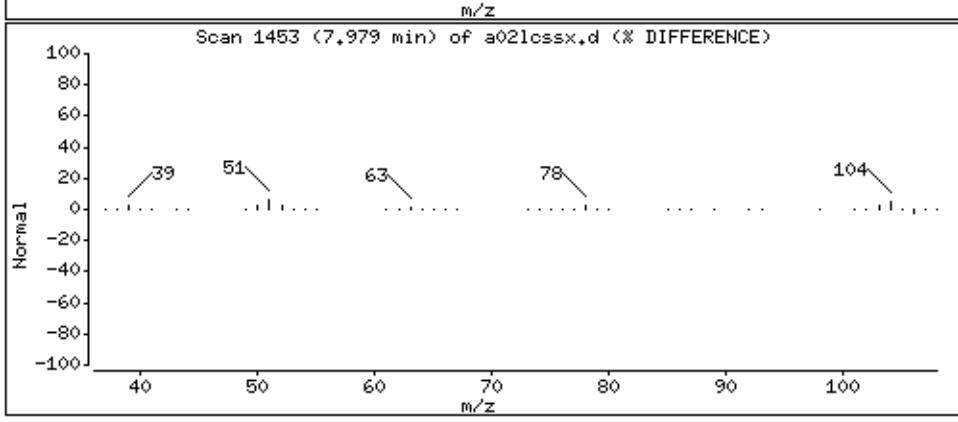


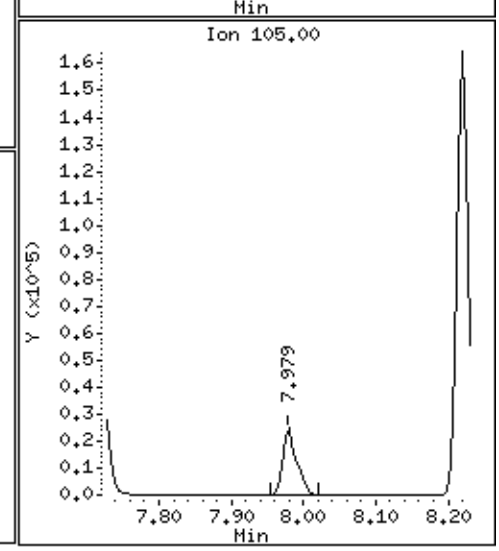












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

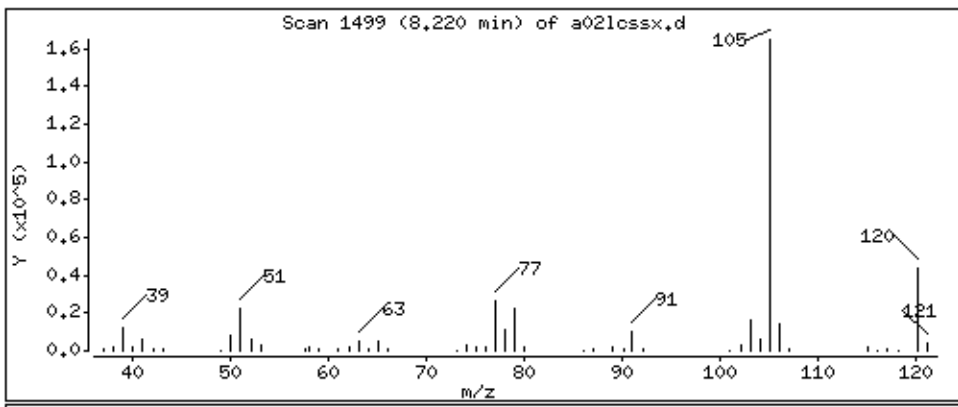
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

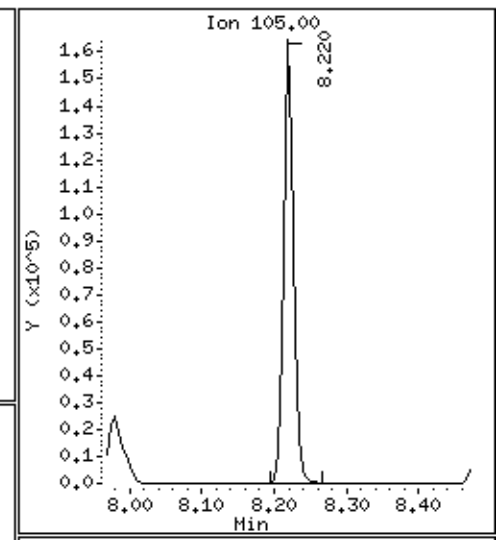
Sample Info: 1710450,138812:5

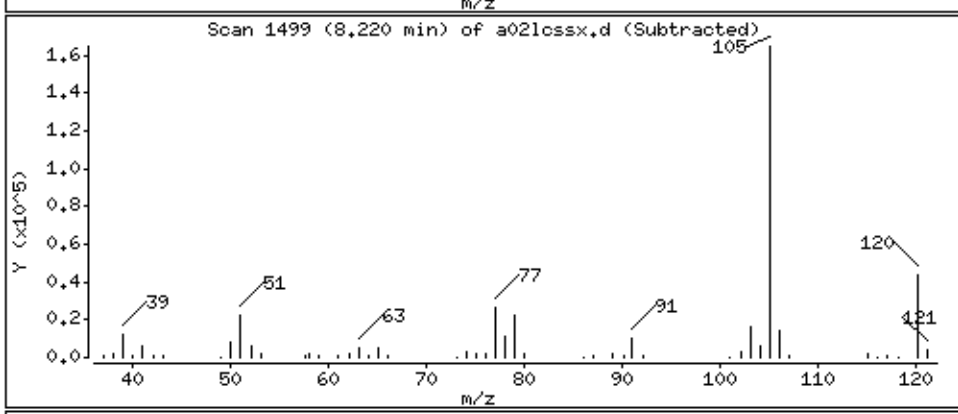
Operator: TMW

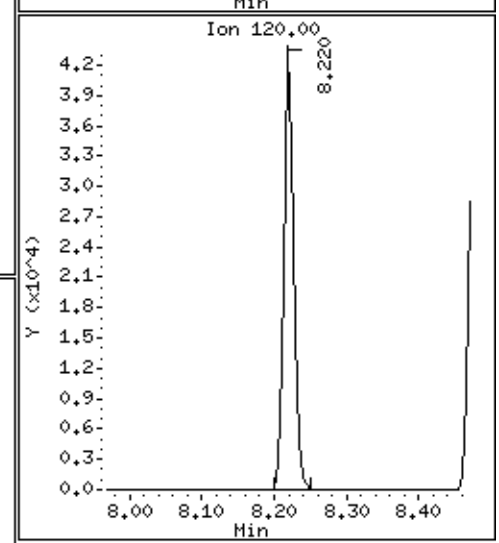
Column phase: DB-624 Column diameter: 0.18

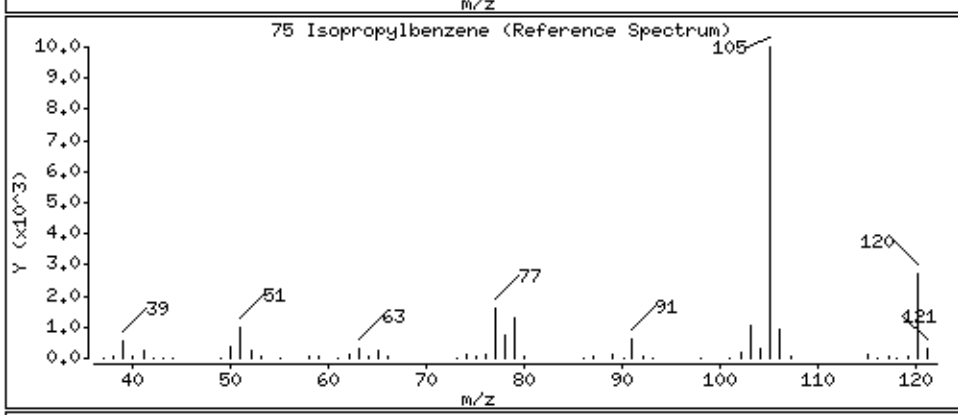
75 Isopropylbenzene Concentration: 45.8 ppb

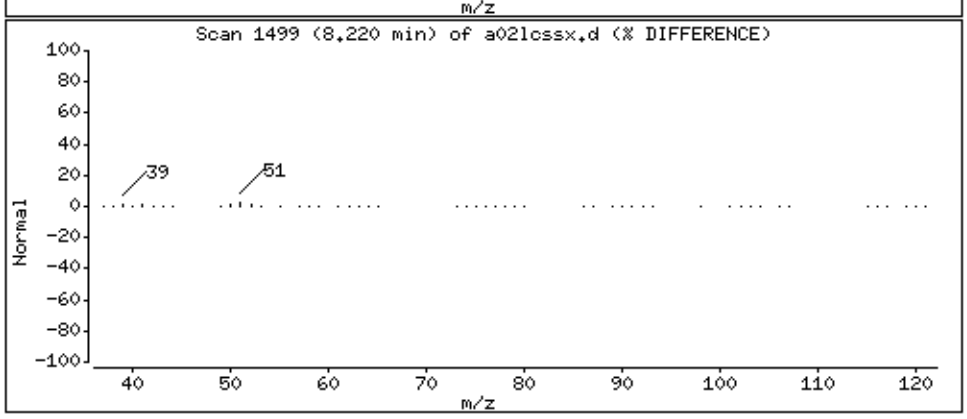












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Date : 18-JAN-2017 13:16

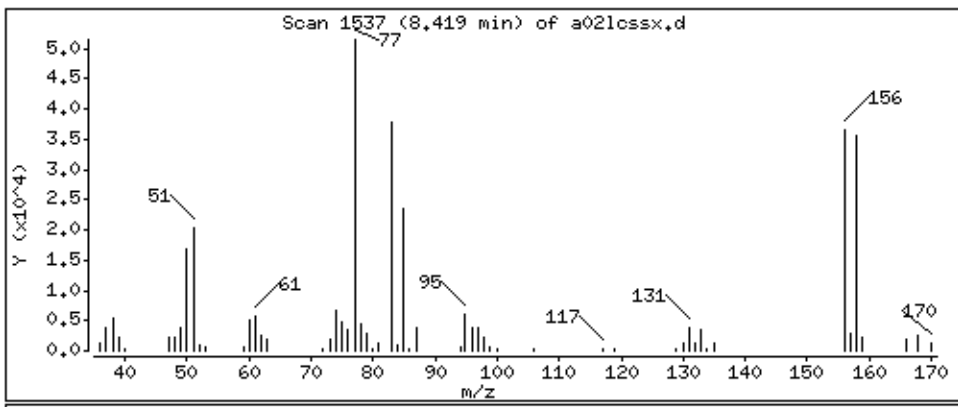
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

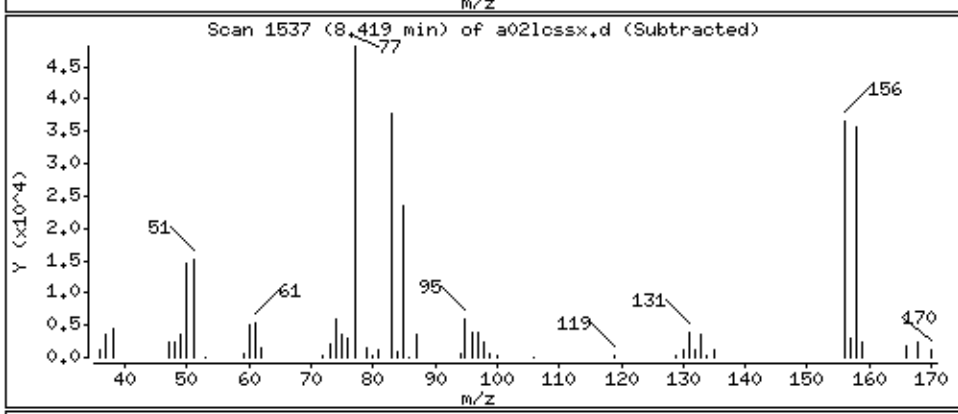
Sample Info: 1710450,138812:5

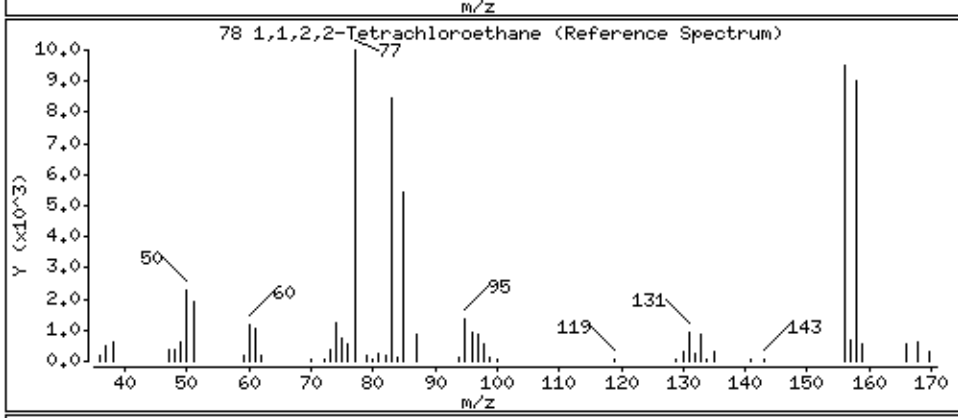
Operator: TMW

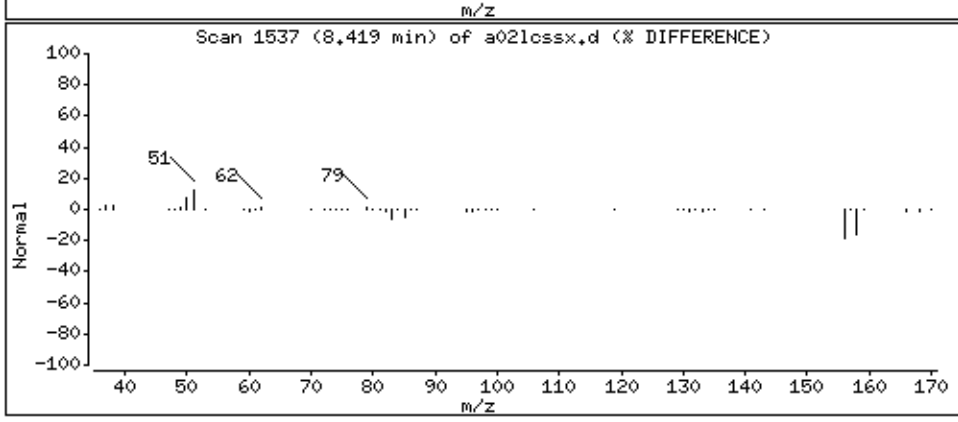
Column phase: DB-624 Column diameter: 0.18

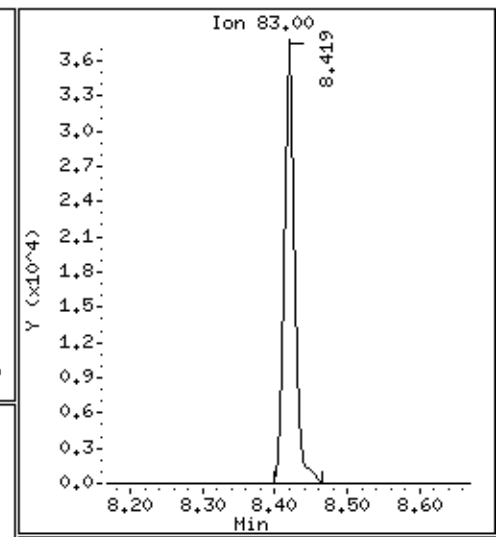
78 1,1,2,2-Tetrachloroethane Concentration: 48.8 ppb

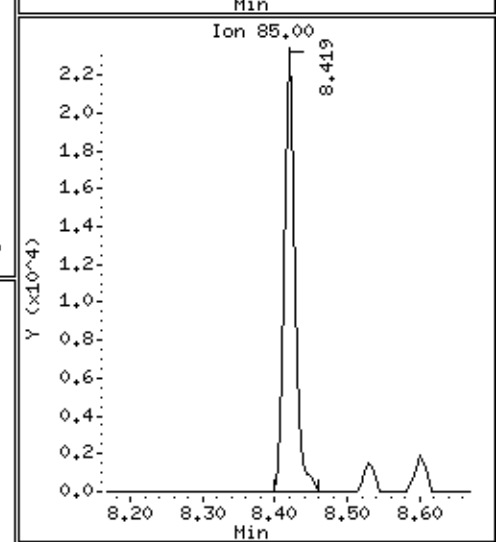


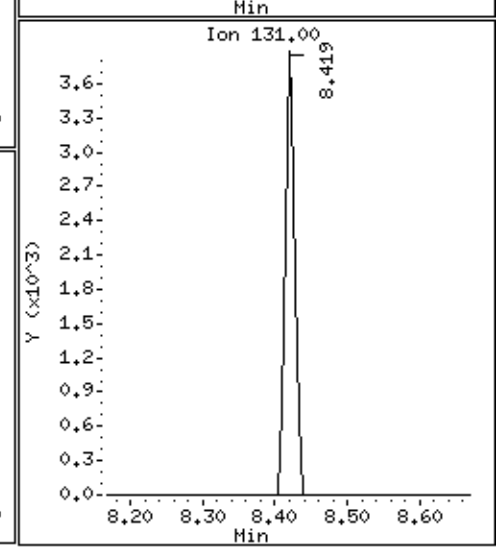












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

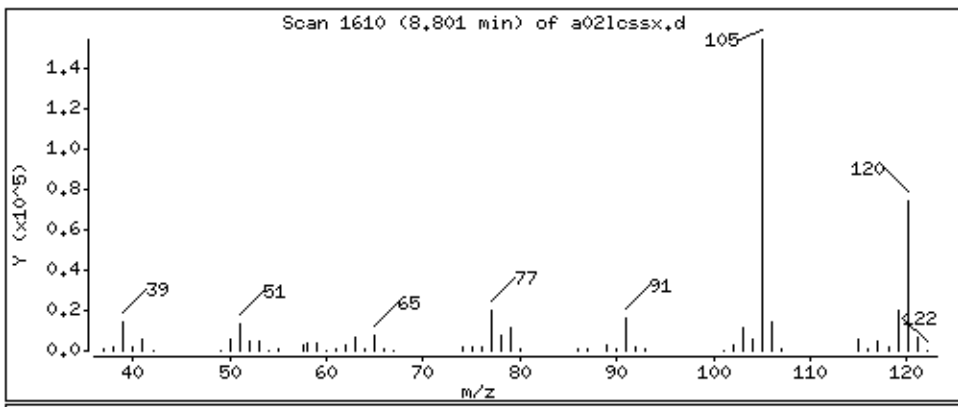
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

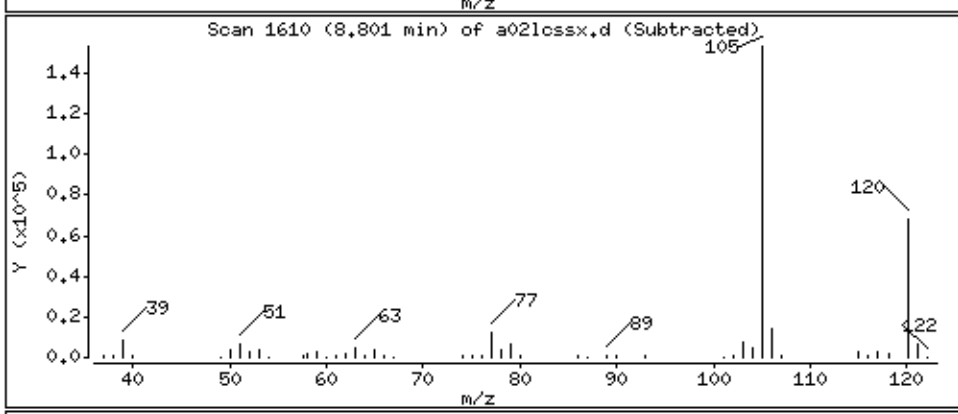
Sample Info: 1710450,138812:5

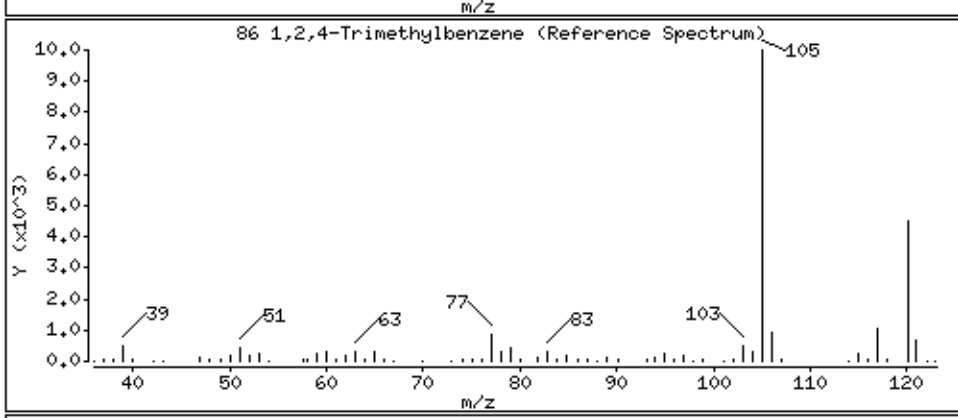
Operator: TMW

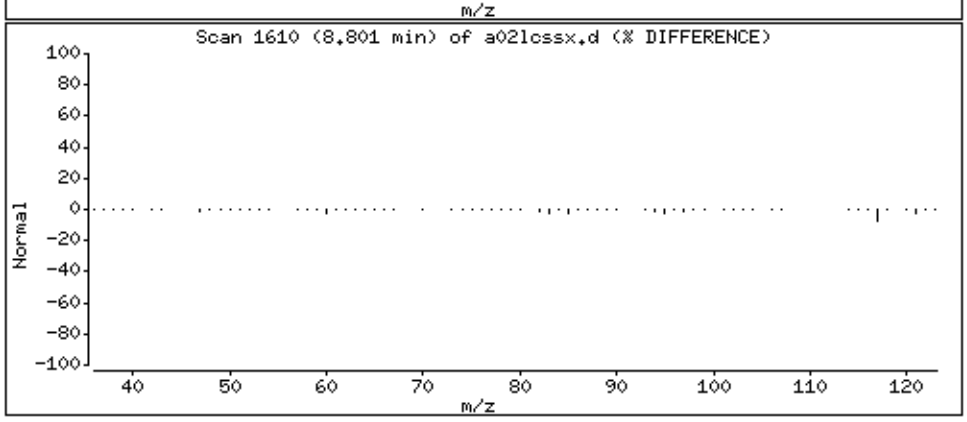
Column phase: DB-624 Column diameter: 0.18

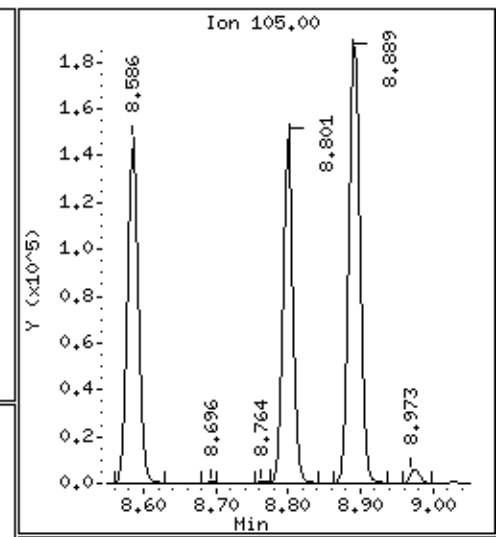
86 1,2,4-Trimethylbenzene Concentration: 46.8 ppb

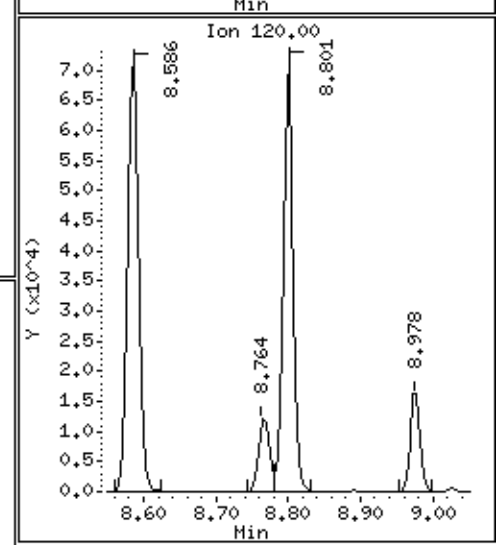












Data File: \\192.168.50.6\chem\50mv5a.i\a011817.b\a02lcssx.d

Date : 18-JAN-2017 13:16

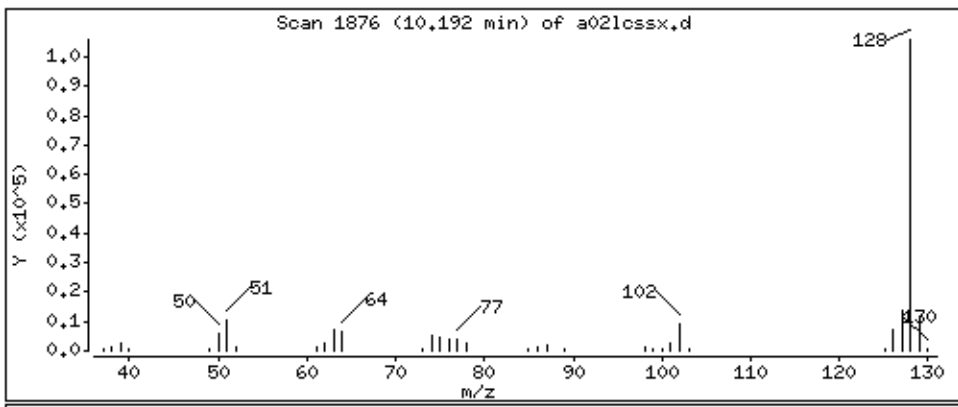
Client ID: 1710450,138812:5 Instrument: 50mv5a.i

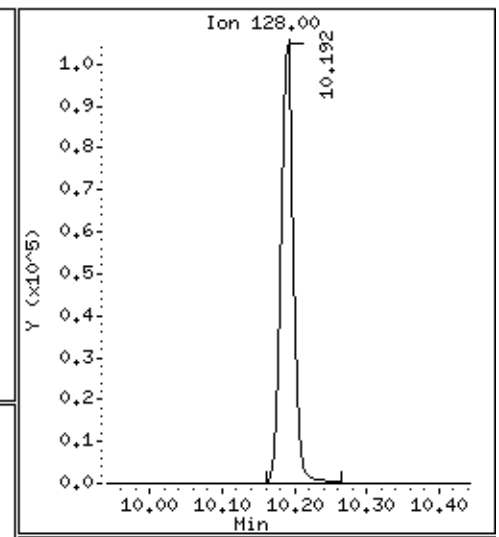
Sample Info: 1710450,138812:5

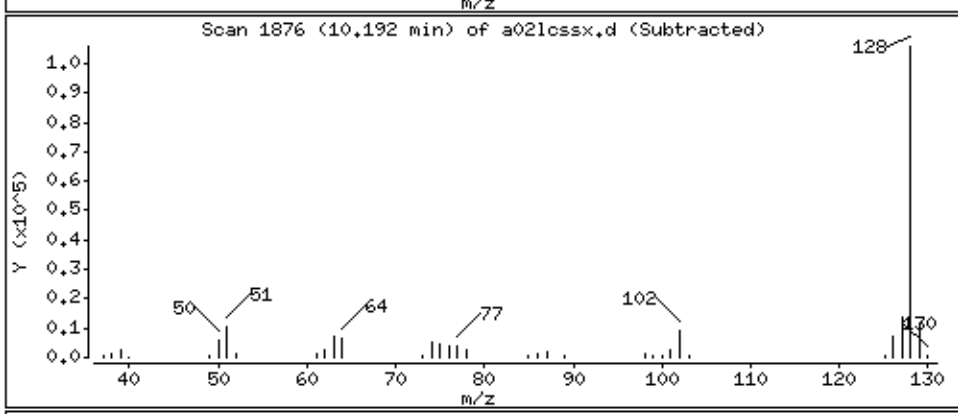
Operator: TMW

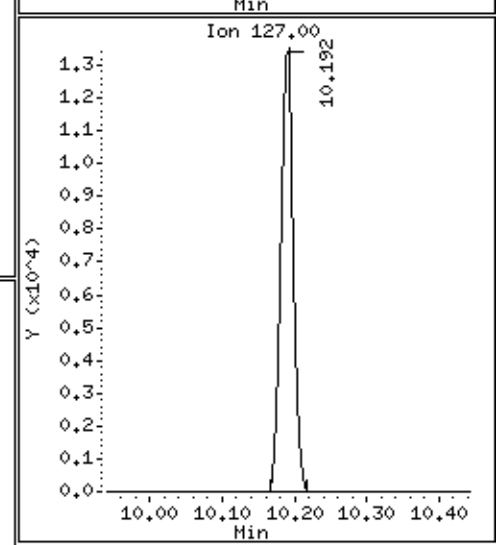
Column phase: DB-624 Column diameter: 0.18

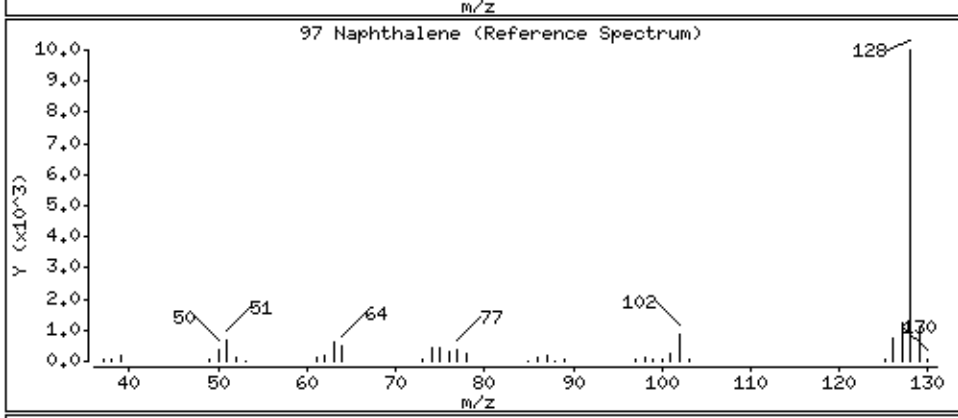
97 Naphthalene Concentration: 43.6 ppb

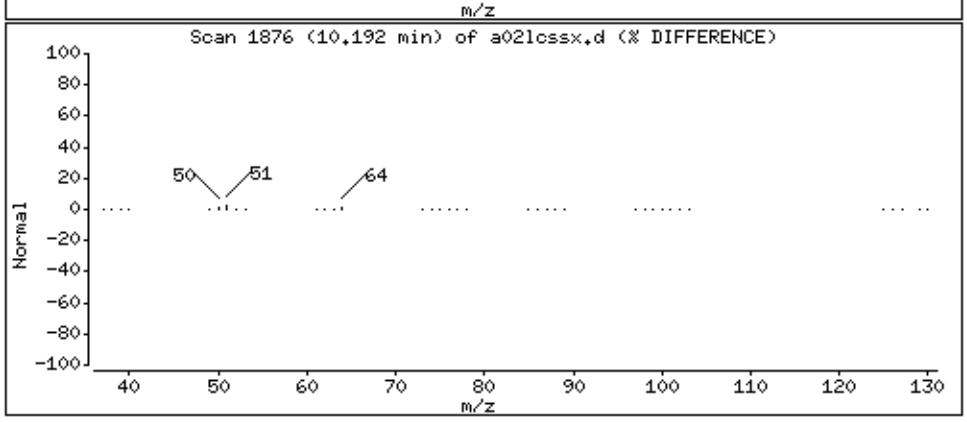












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Injection Date: 18-JAN-2017 13:16
Instrument: 50mv5a.i
Lab Sample ID: 1710450,138812:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 16:16
Lab Sample ID: 1711348
Date Analyzed: 01/19/2017 16:16
Lab File ID: A011917.B\A03MBS.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 16:16
Lab Sample ID: 1711348
Date Analyzed: 01/19/2017 16:16
Lab File ID: A011917.B\A03MBS.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a03mbs.d
Report Date: 20-Jan-2017 13:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011917.b\a03mbs.d
Lab Smp Id: 1711348 Client Smp ID: 1711348
Inj Date : 19-JAN-2017 16:16
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 1711348
Misc Info : 99014
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011917.b\-a8260_a_c.m
Meth Date : 20-Jan-2017 10:57 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 37 Dibromofluoromethane (S)	113	3.633	3.627	(0.816)	35555	50.5952	50.6	
* 46 Fluorobenzene (IS)	96	4.454	4.454	(1.000)	140282	50.0000		
$ 57 Toluene-d8 (S)	98	6.263	6.263	(0.832)	137952	52.0607	52.1	
58 Toluene	91	6.337	6.331	(0.842)	1200	0.37923	0.379	
* 67 Chlorobenzene-D5 (IS)	117	7.529	7.529	(1.000)	109204	50.0000		
$ 76 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	56520	50.8478	50.8	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	63001	50.0000		
99 2,methyl-naphthalene	142	10.861	10.861	(1.205)	3714	2.50516	2.50	
150 1-Methylnaphthalene	142	10.981	10.981	(1.218)	3524	2.64213	2.64	

Review Codes Legend

:

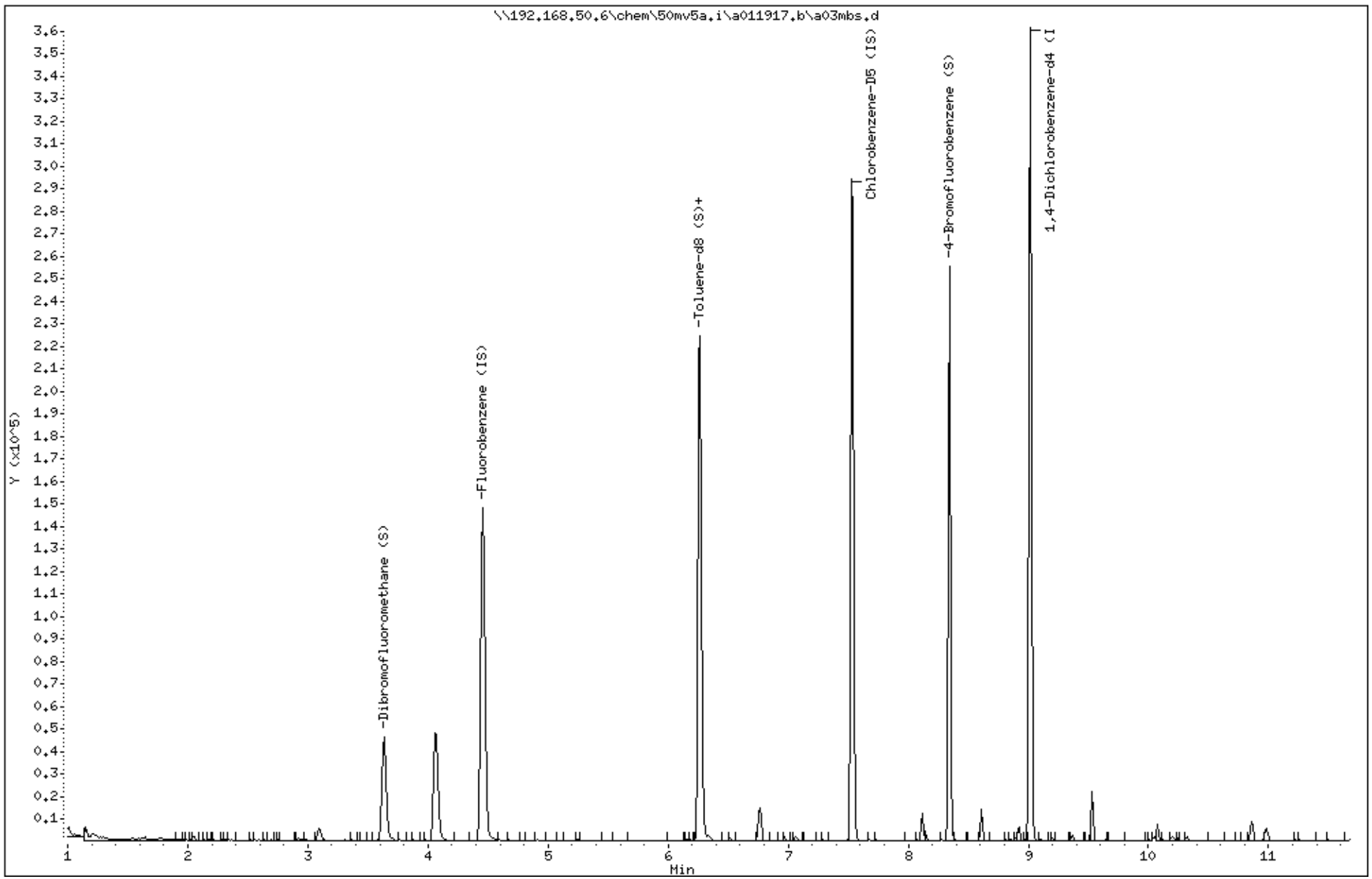
Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a03mbs.d
Date : 19-JAN-2017 16:16
Client ID: 1711348
Sample Info: 1711348

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



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Date : 19-JAN-2017 16:16

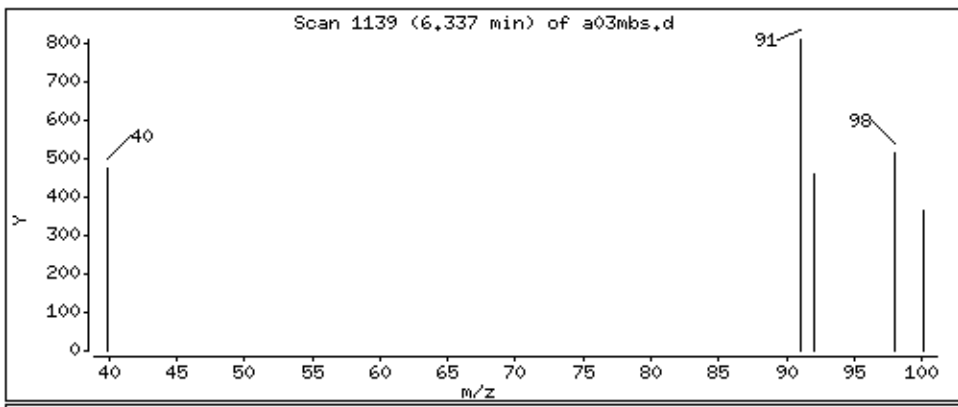
Client ID: 1711348 Instrument: 50mv5a.i

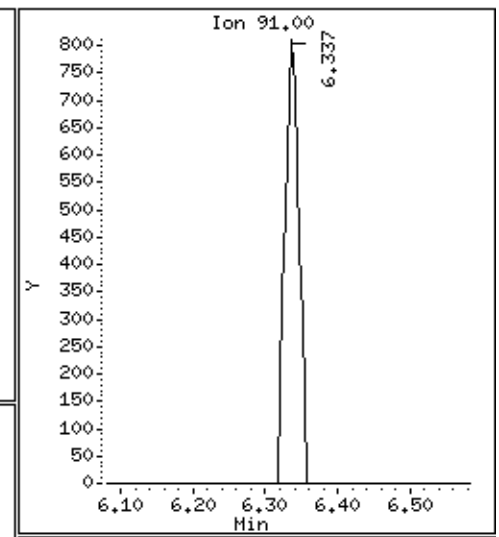
Sample Info: 1711348

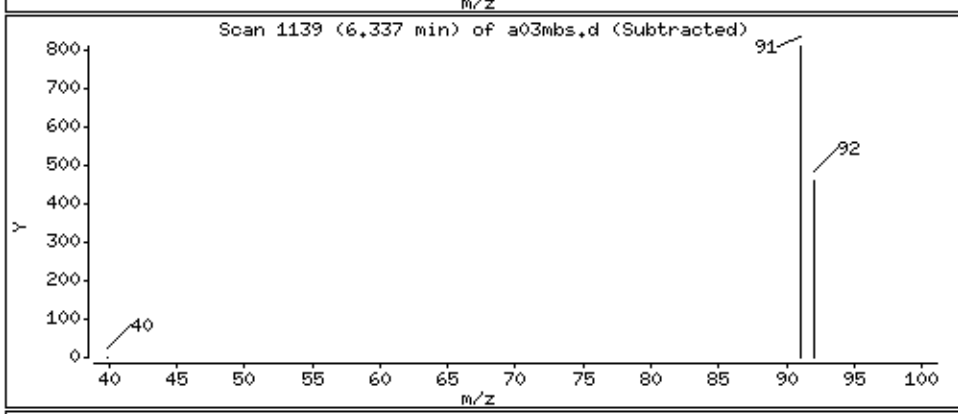
Operator: TMW

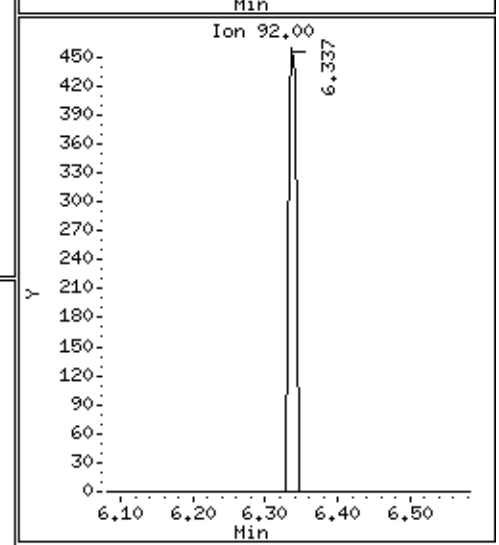
Column phase: DB-624 Column diameter: 0.18

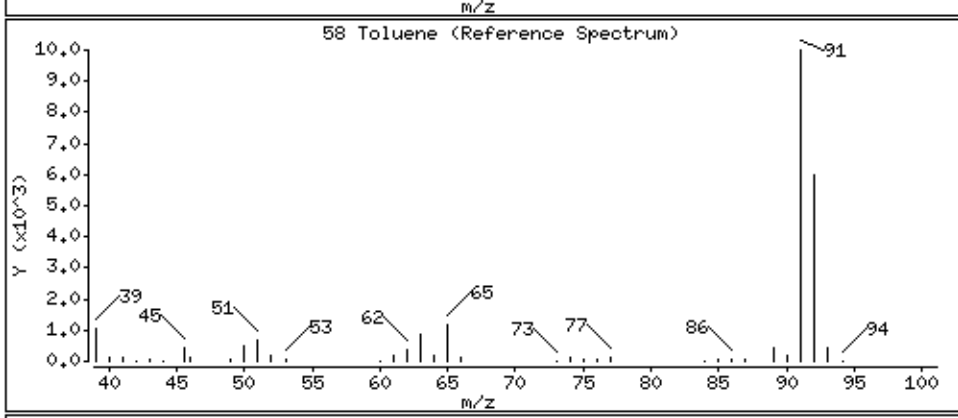
58 Toluene Concentration: 0.379 ppb

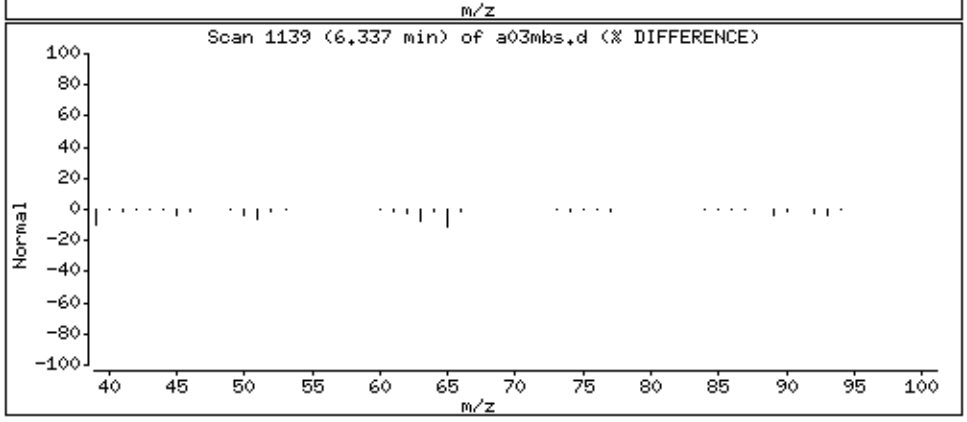












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a03mbs.d

Date : 19-JAN-2017 16:16

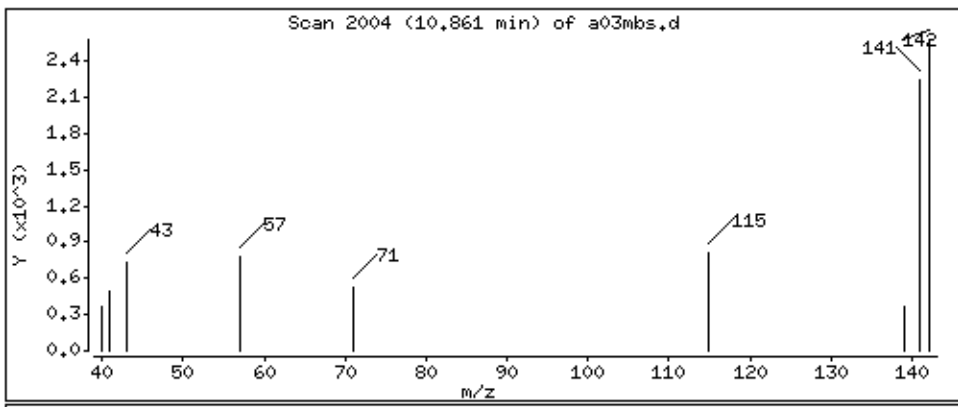
Client ID: 1711348 Instrument: 50mv5a.i

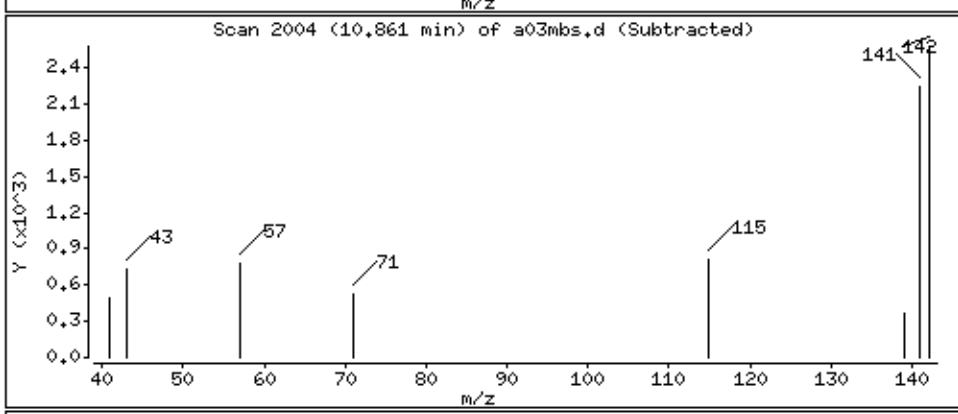
Sample Info: 1711348

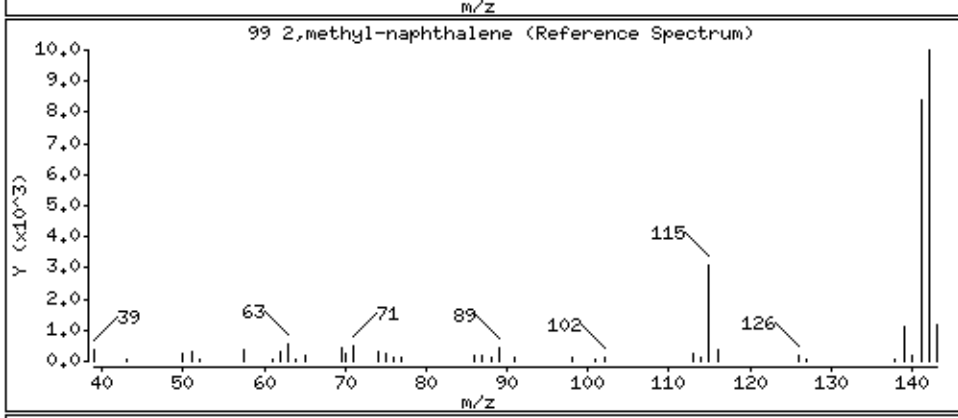
Operator: TMW

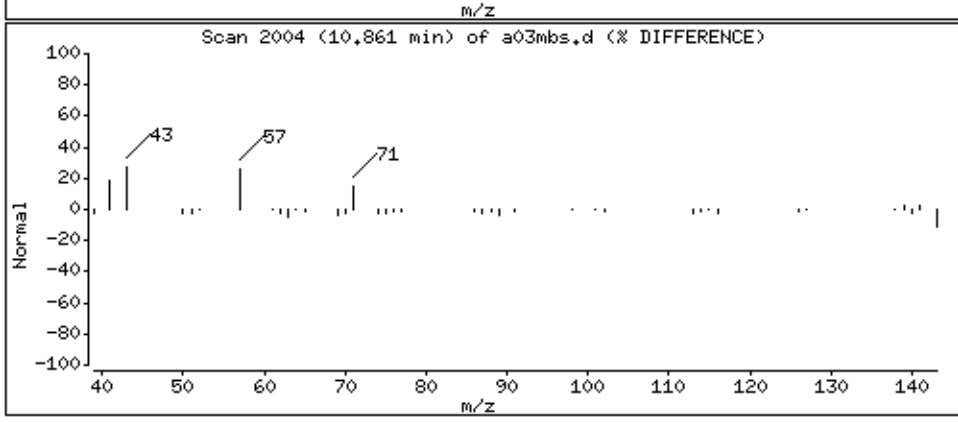
Column phase: DB-624 Column diameter: 0.18

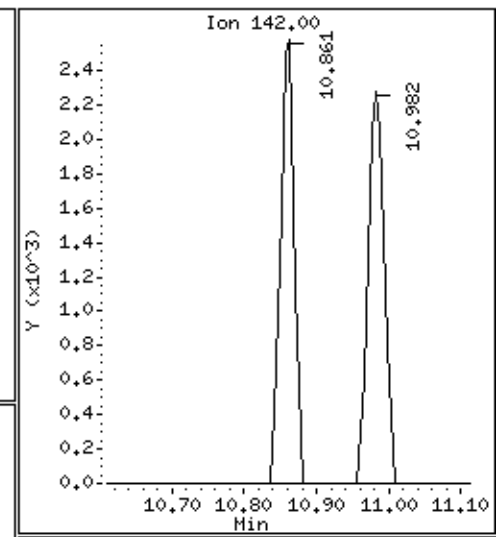
99 2,methyl-naphthalene Concentration: 2.50 ppb

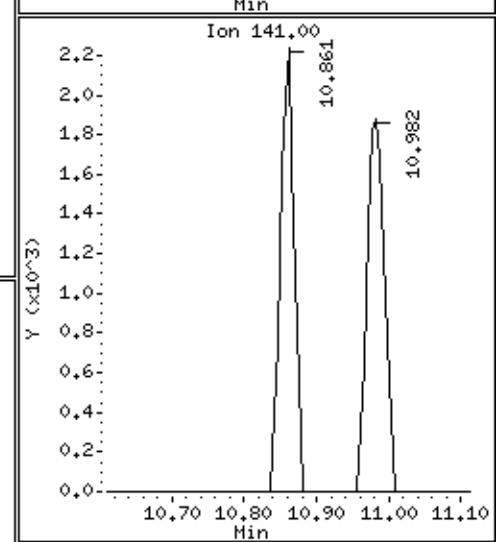


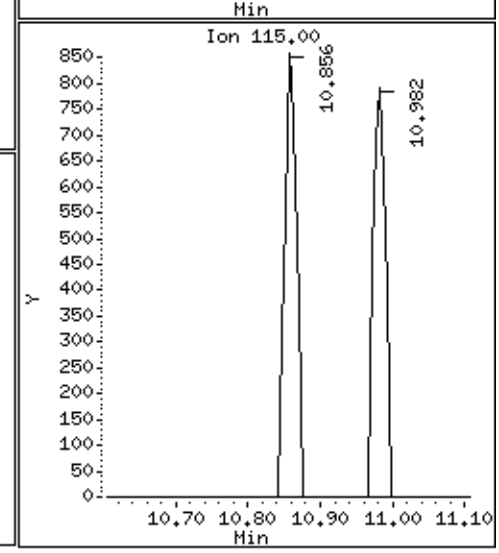












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a03mbs.d

Date : 19-JAN-2017 16:16

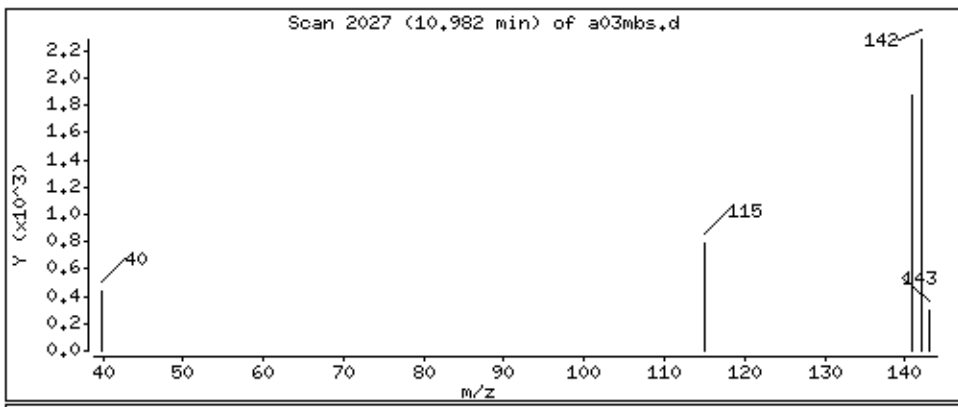
Client ID: 1711348 Instrument: 50mv5a.i

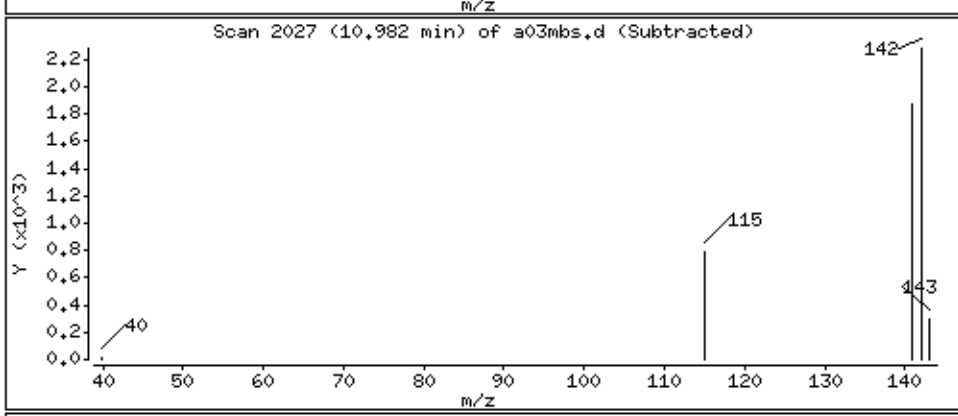
Sample Info: 1711348

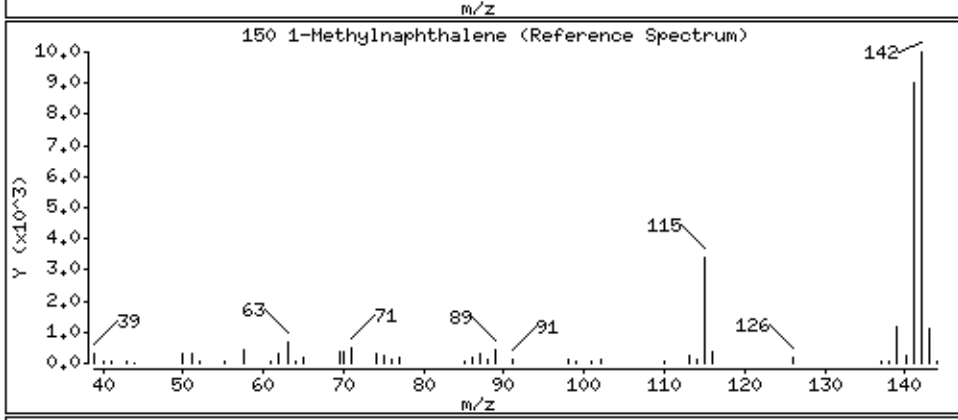
Operator: TMW

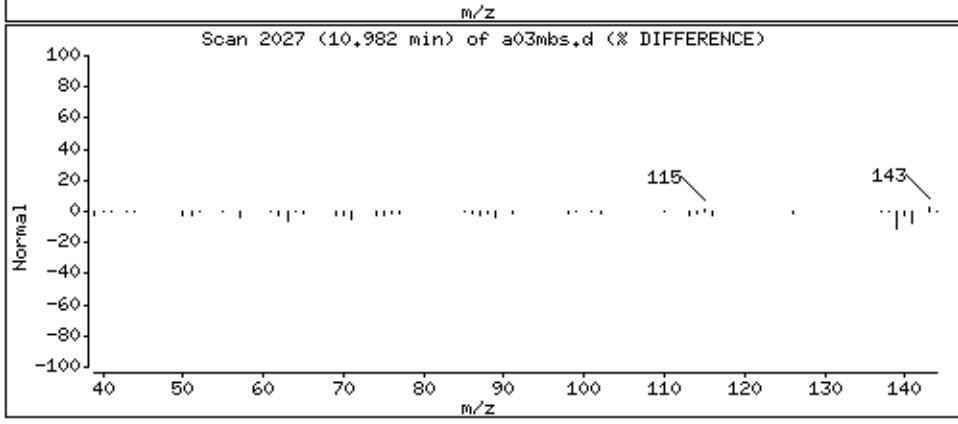
Column phase: DB-624 Column diameter: 0.18

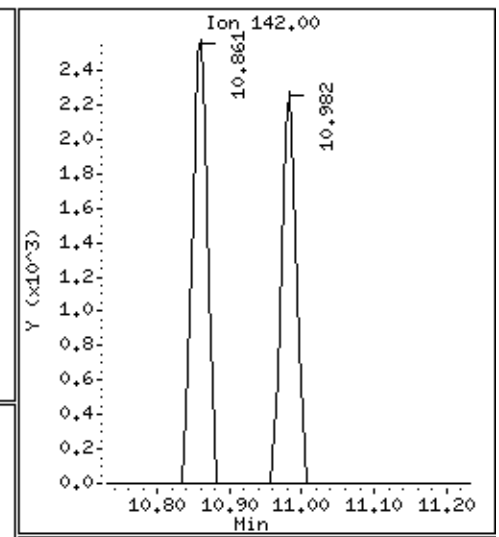
150 1-Methylnaphthalene Concentration: 2.64 ppb

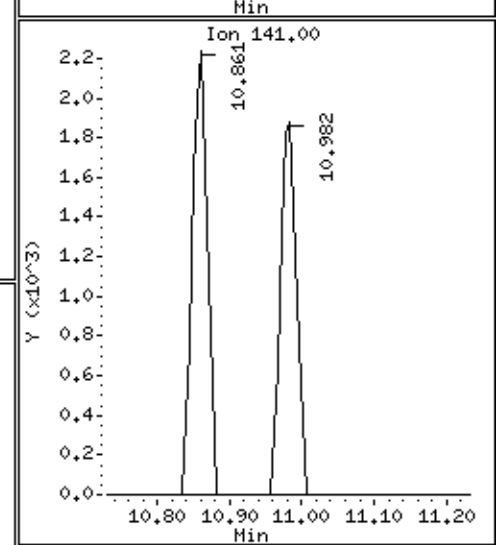


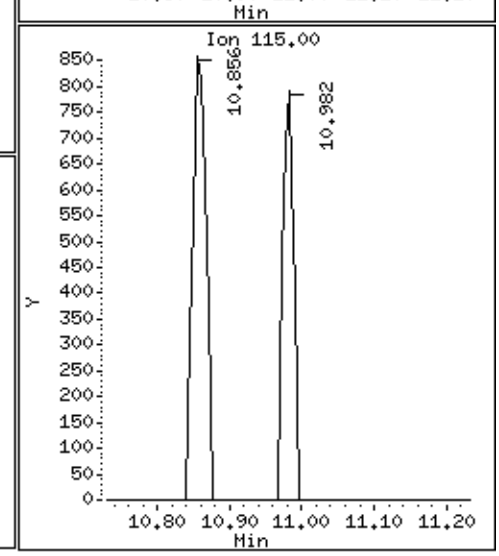












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b/a03mbs.d
Injection Date: 19-JAN-2017 16:16
Instrument: 50mv5a.i
Lab Sample ID: 1711348
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 15:39
Lab Sample ID: 1711349
Date Analyzed: 01/19/2017 15:39
Lab File ID: A011917.B\A02LCSS.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
71-43-2	Benzene	0.049	
108-90-7	Chlorobenzene	0.048	
67-66-3	Chloroform	0.051	
75-35-4	1,1-Dichloroethene	0.050	
156-59-2	cis-1,2-Dichloroethene	0.051	
156-60-5	trans-1,2-Dichloroethene	0.051	
78-87-5	1,2-Dichloropropane	0.053	
100-41-4	Ethylbenzene	0.050	
98-82-8	Isopropylbenzene (Cumene)	0.050	
1634-04-4	Methyl-tert-butyl ether	0.049	
91-20-3	Naphthalene	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	0.050	
127-18-4	Tetrachloroethene	0.050	
108-88-3	Toluene	0.052	
71-55-6	1,1,1-Trichloroethane	0.051	
79-01-6	Trichloroethene	0.049	
95-63-6	1,2,4-Trimethylbenzene	0.050	
75-01-4	Vinyl chloride	0.080	
1330-20-7	Xylene (Total)	0.15	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d
Report Date: 20-Jan-2017 13:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d
Lab Smp Id: 1711349,139467:5 Client Smp ID: 1711349,139467:5
Inj Date : 19-JAN-2017 15:39
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 1711349,139467:5
Misc Info : 99014
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011917.b\-a8260_a_c.m
Meth Date : 20-Jan-2017 10:57 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.159	1.159	(0.260)	55367	80.0531	80.0(R)	
22 1,2-Dichloroethene (trans)	96	2.236	2.236	(0.502)	31747	51.4247	51.4	
30 1,2-Dichloroethene (cis)	96	3.073	3.073	(0.690)	34657	50.5338	50.5(Q)	
11 1,1-Dichloroethene	96	1.760	1.760	(0.395)	28623	50.4164	50.4	
21 Methyl-tert-butyl ether	73	2.220	2.220	(0.499)	84970	49.1554	49.2	
35 Chloroform	83	3.444	3.439	(0.773)	61683	50.5595	50.6	
36 1,1,1-Trichloroethane	97	3.632	3.633	(0.816)	52371	51.3588	51.4	
$ 37 Dibromofluoromethane (S)	113	3.632	3.627	(0.816)	32220	47.9485	47.9	
42 Benzene	78	4.077	4.077	(0.915)	139589	49.3757	49.4	
* 46 Fluorobenzene (IS)	96	4.454	4.454	(1.000)	134141	50.0000		
47 Trichloroethene	95	4.893	4.888	(1.099)	34681	48.5265	48.5	
49 1,2-Dichloropropane	63	5.191	5.186	(1.166)	41508	53.0749	53.1	
$ 57 Toluene-d8 (S)	98	6.263	6.263	(0.832)	129003	52.5178	52.5	
58 Toluene	91	6.336	6.331	(0.842)	153386	52.2923	52.3	
62 Tetrachloroethene	166	6.828	6.828	(0.907)	38972	49.6076	49.6	
* 67 Chlorobenzene-D5 (IS)	117	7.529	7.529	(1.000)	101231	50.0000		
68 Chlorobenzene	112	7.555	7.550	(1.003)	96401	48.3888	48.4	
70 Ethylbenzene	106	7.628	7.628	(1.013)	55195	49.5743	49.6	
71 m&p-Xylene	106	7.728	7.728	(1.026)	137763	104.738	105	
72 o-Xylene	106	7.984	7.984	(1.060)	65715	47.7688	47.8	
75 Isopropylbenzene	105	8.225	8.225	(1.092)	187141	49.7022	49.7	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d
Report Date: 20-Jan-2017 13:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.108)	53005	51.4413	51.4	
78 1,1,2,2-Tetrachloroethane	83	8.429	8.423	(0.935)	43430	50.1786	50.2	
86 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	168650	49.8724	49.9	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.014	9.015	(1.000)	61531	50.0000		
97 Naphthalene	128	10.196	10.197	(1.131)	146389	45.9312	45.9	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

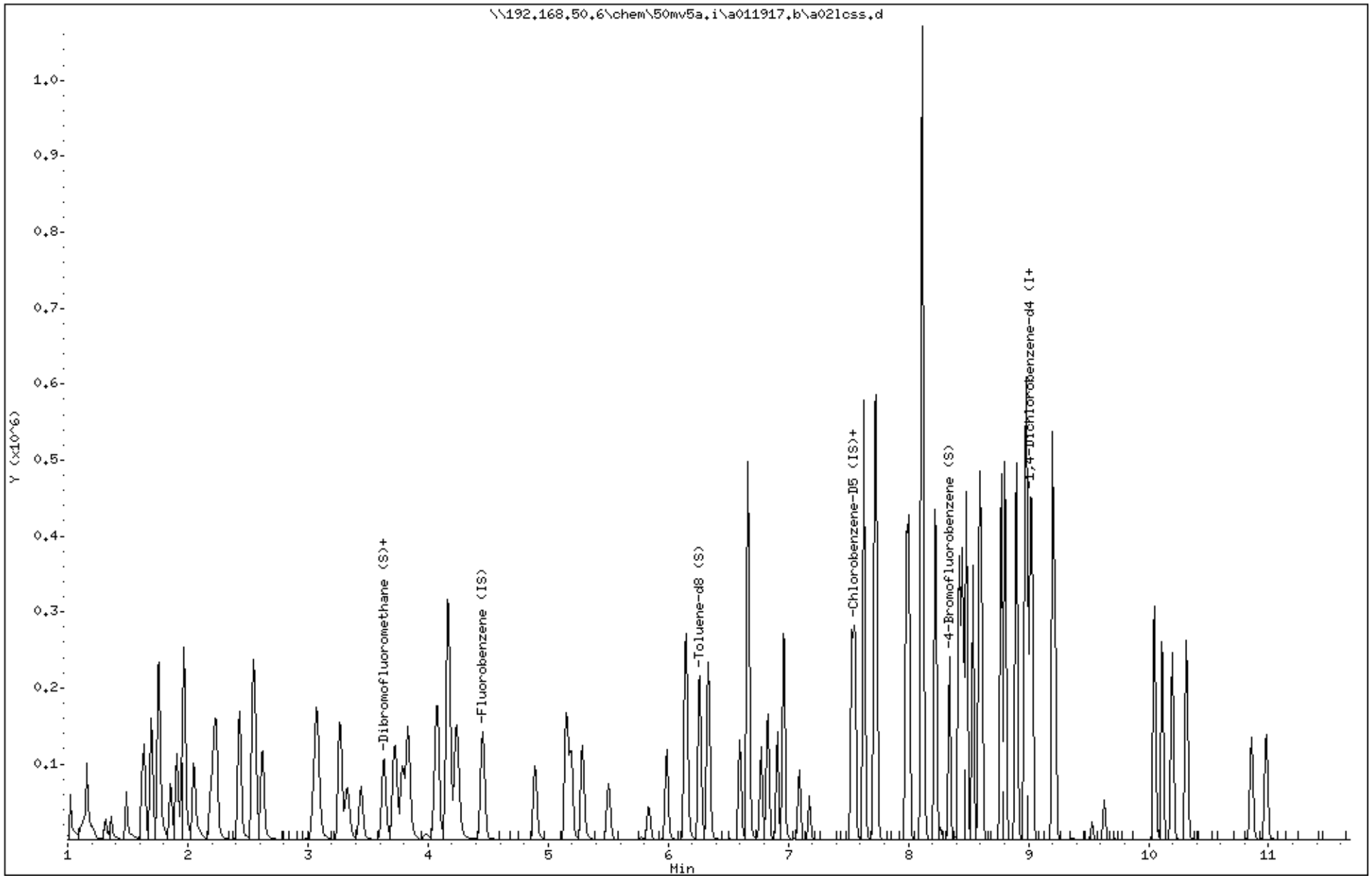
Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d
Date : 19-JAN-2017 15:39
Client ID: 1711349,139467:5
Sample Info: 1711349,139467:5

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

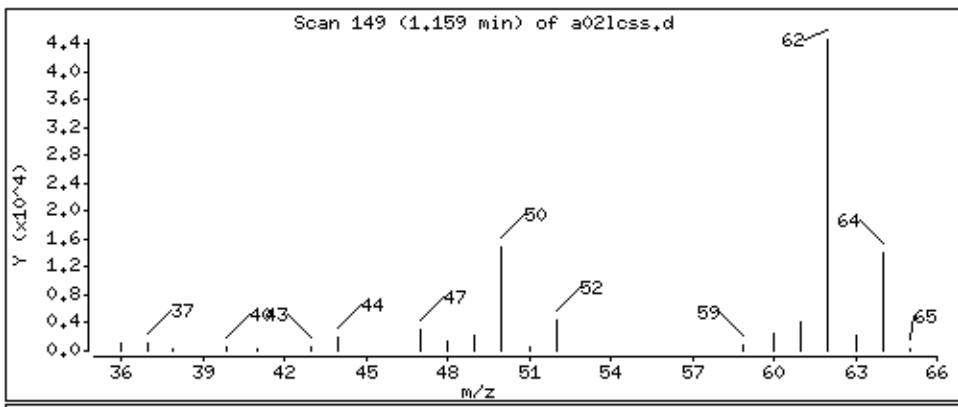
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

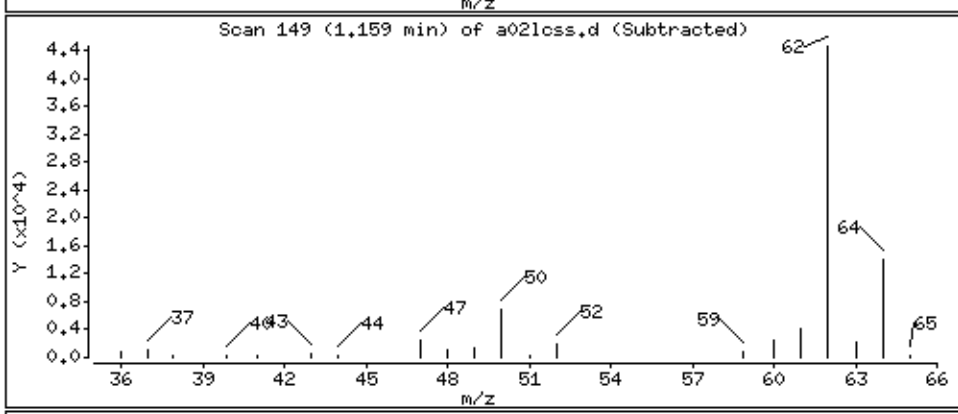
Sample Info: 1711349,139467:5

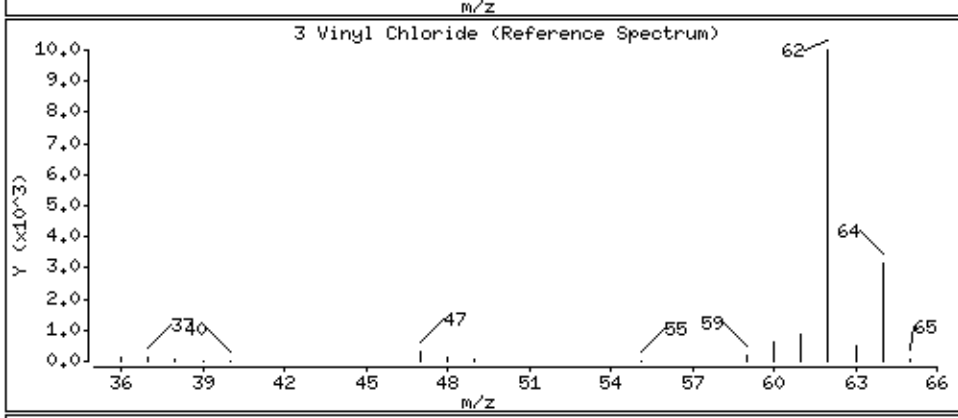
Operator: TMW

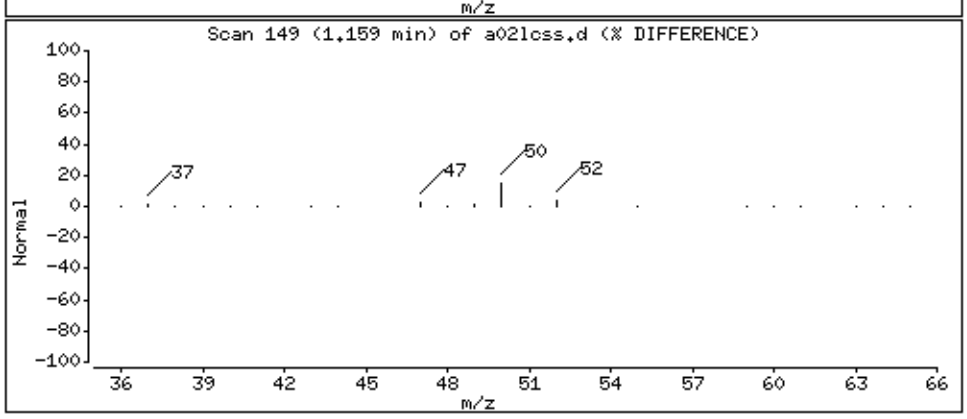
Column phase: DB-624 Column diameter: 0.18

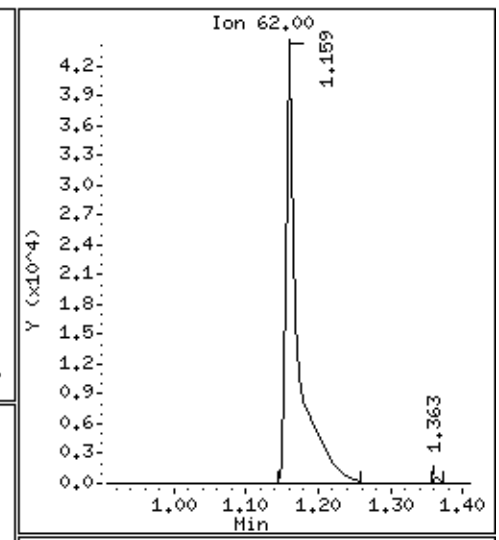
3 Vinyl Chloride Concentration: 80.0 ppb

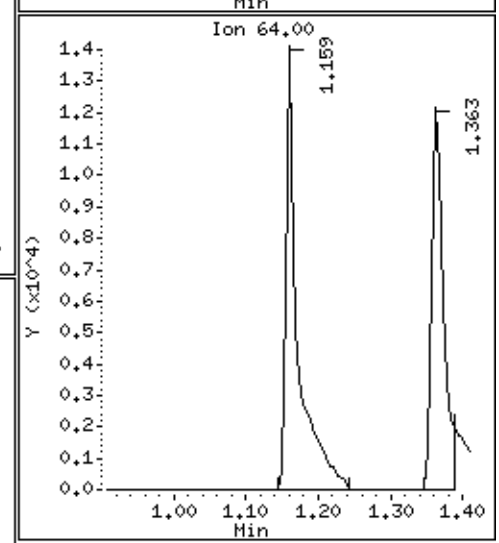












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Date : 19-JAN-2017 15:39

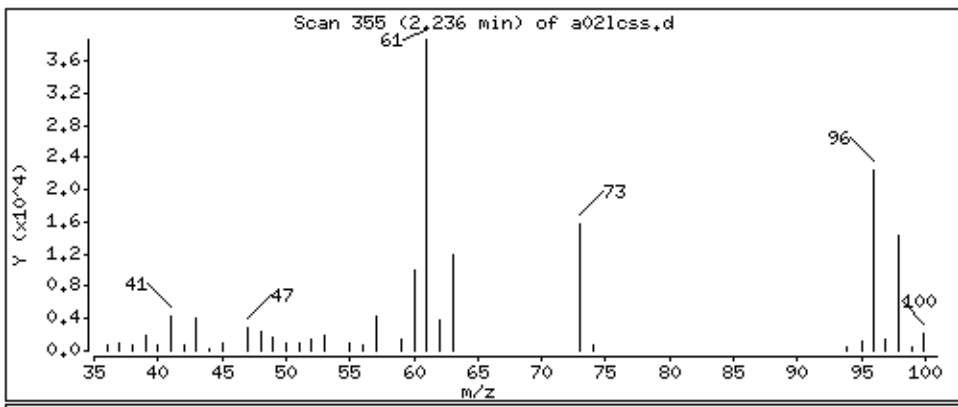
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

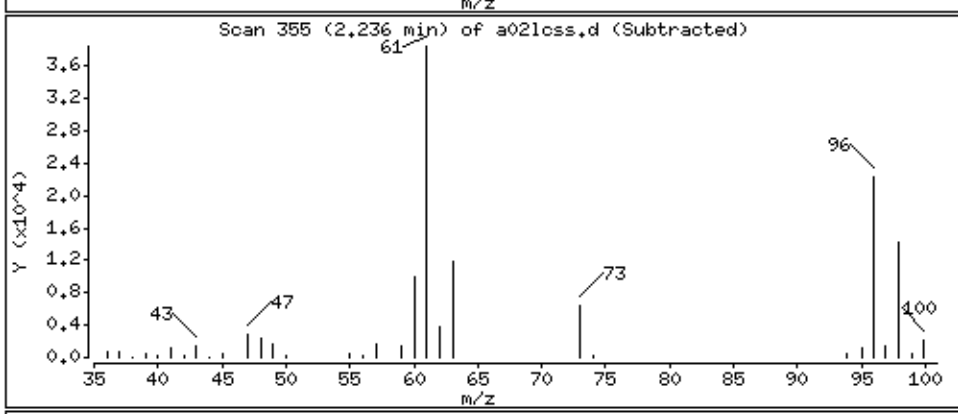
Sample Info: 1711349,139467:5

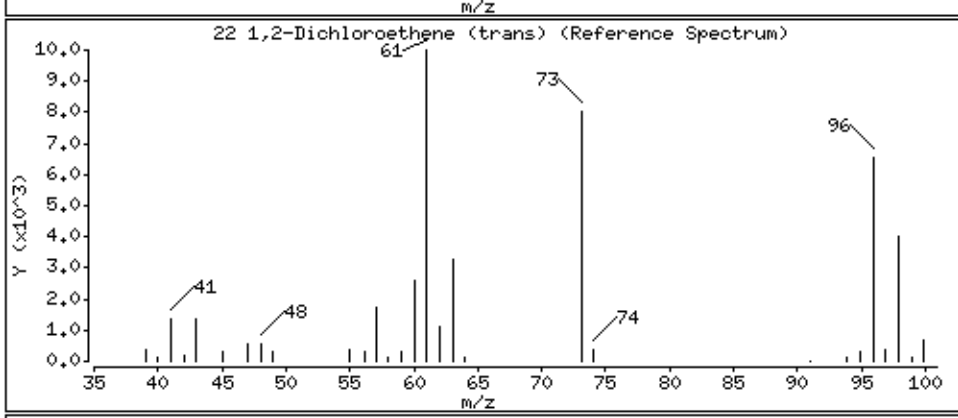
Operator: TMW

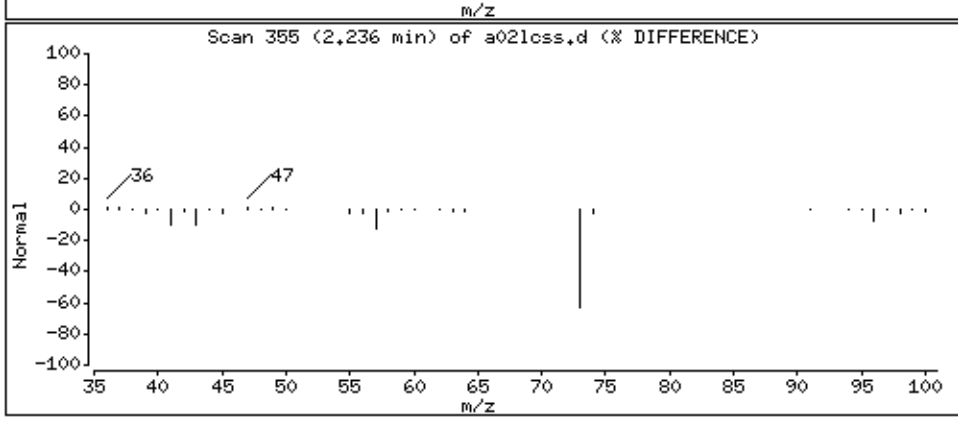
Column phase: DB-624 Column diameter: 0.18

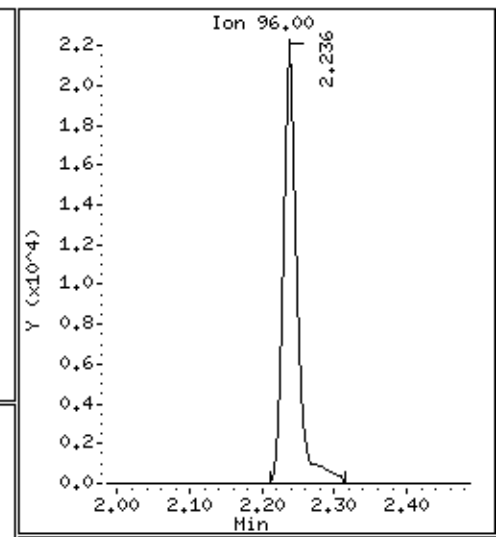
22 1,2-Dichloroethene (trans) Concentration: 51.4 ppb

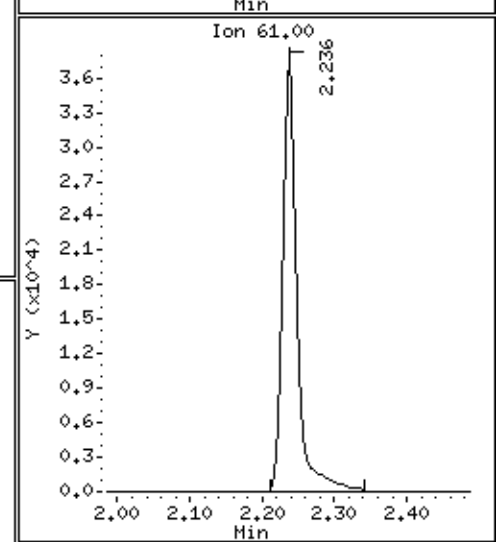


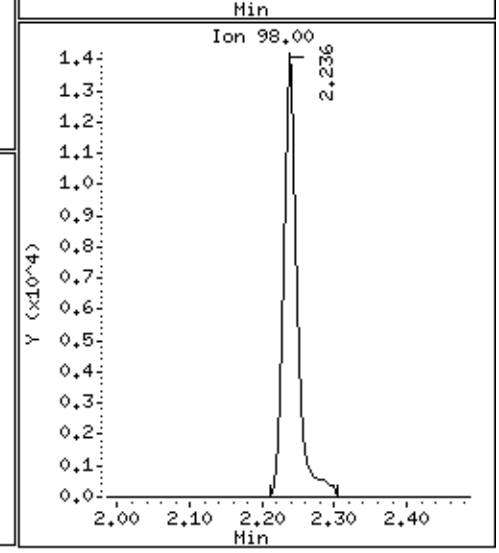












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

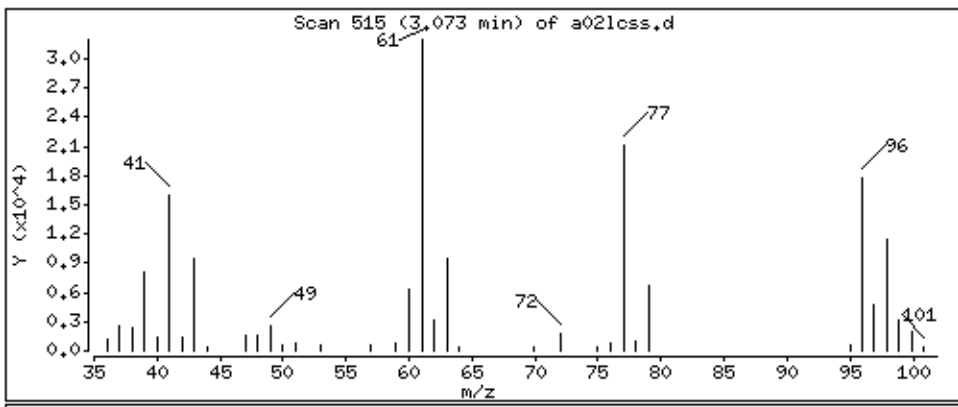
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

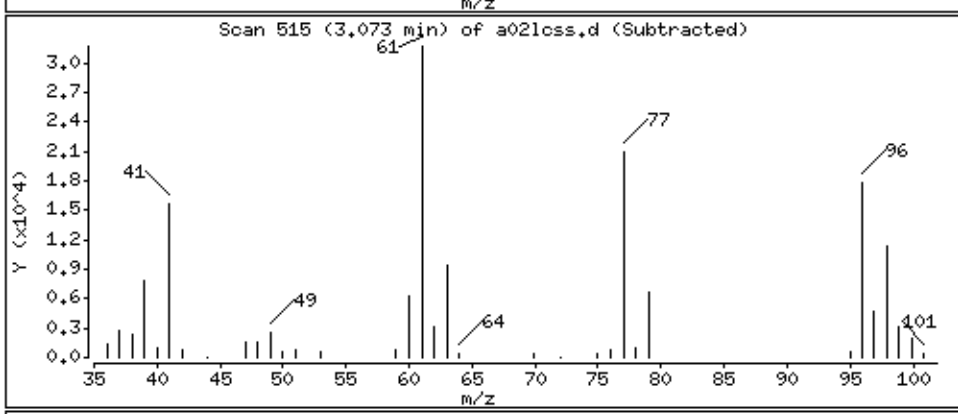
Sample Info: 1711349,139467:5

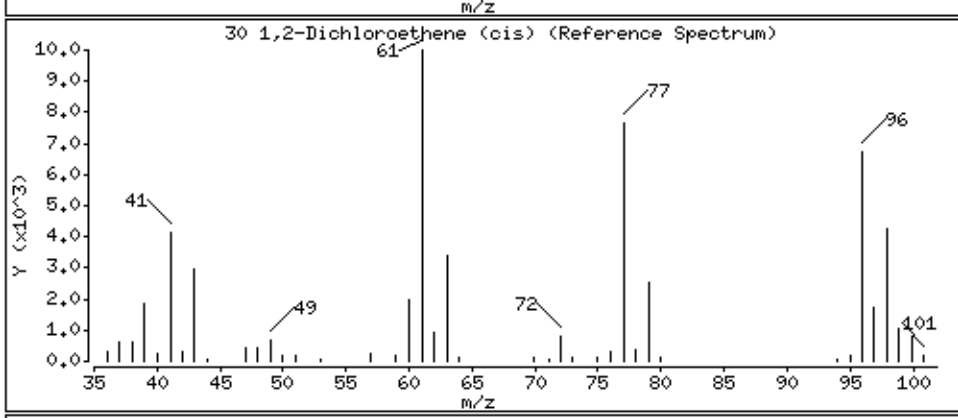
Operator: TMW

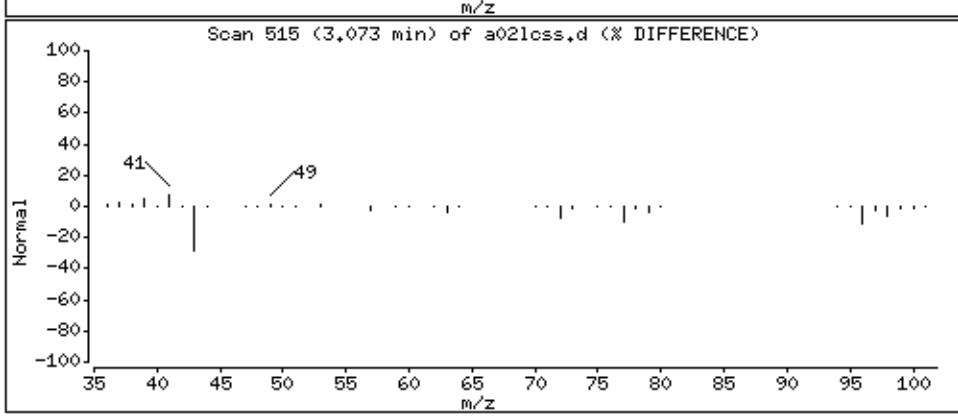
Column phase: DB-624 Column diameter: 0.18

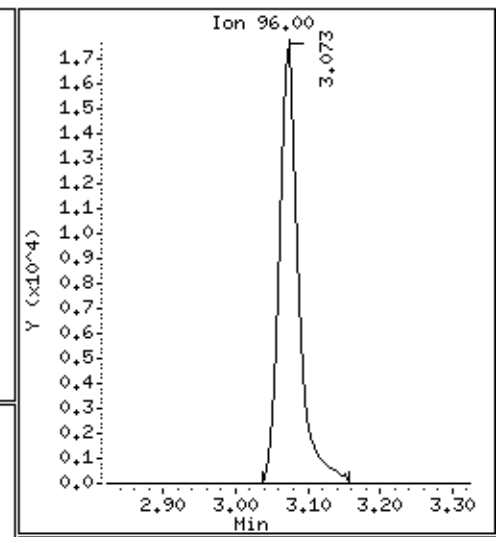
30 1,2-Dichloroethene (cis) Concentration: 50.5 ppb

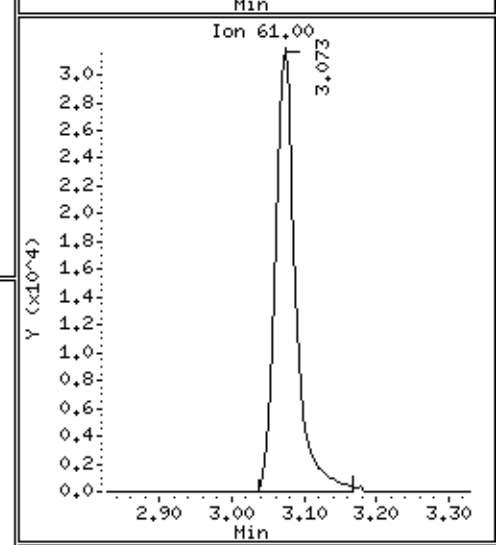


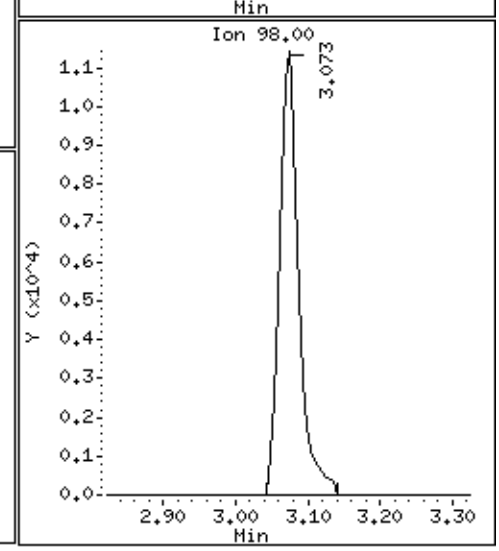












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

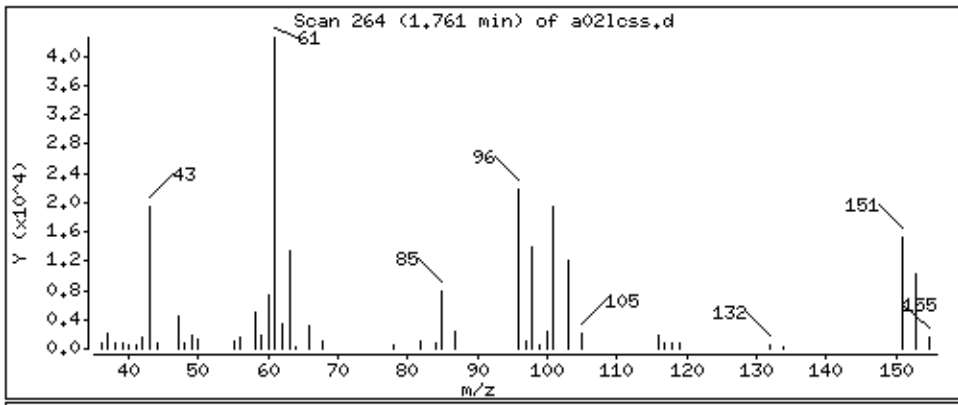
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

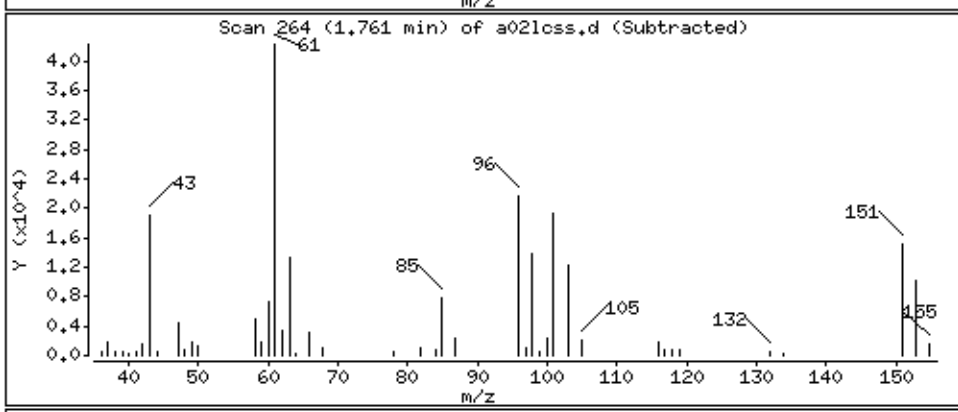
Sample Info: 1711349,139467:5

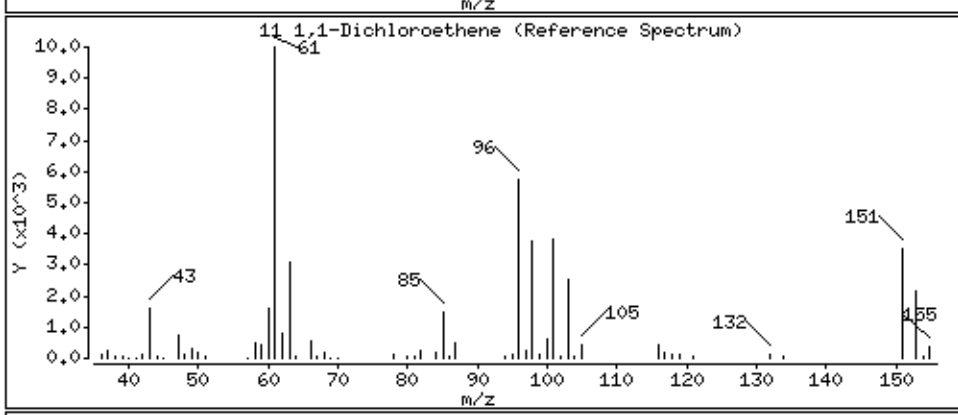
Operator: TMW

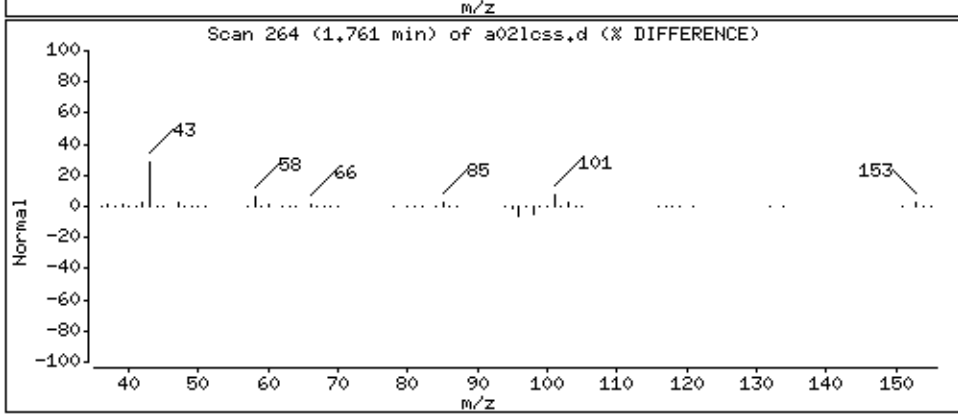
Column phase: DB-624 Column diameter: 0.18

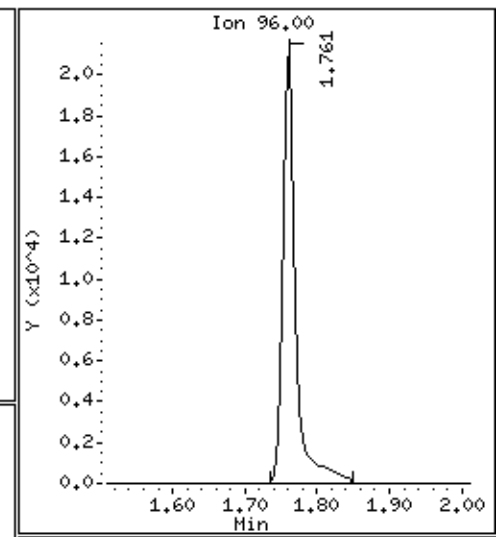
11 1,1-Dichloroethene Concentration: 50.4 ppb

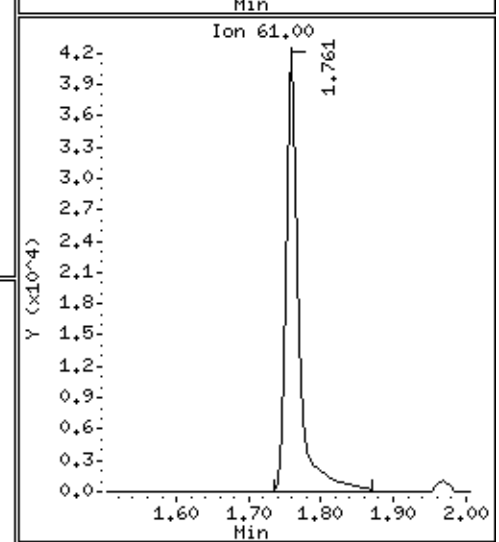


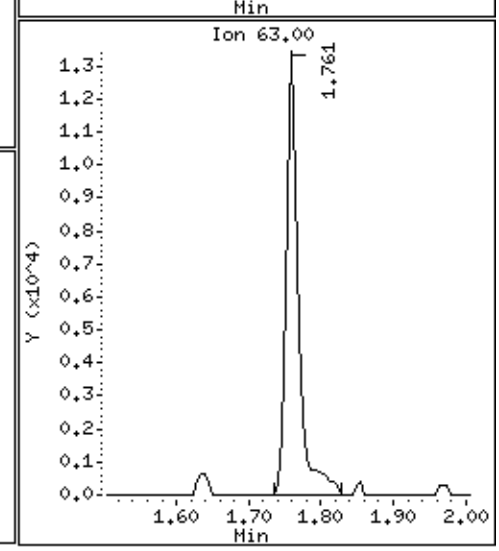












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

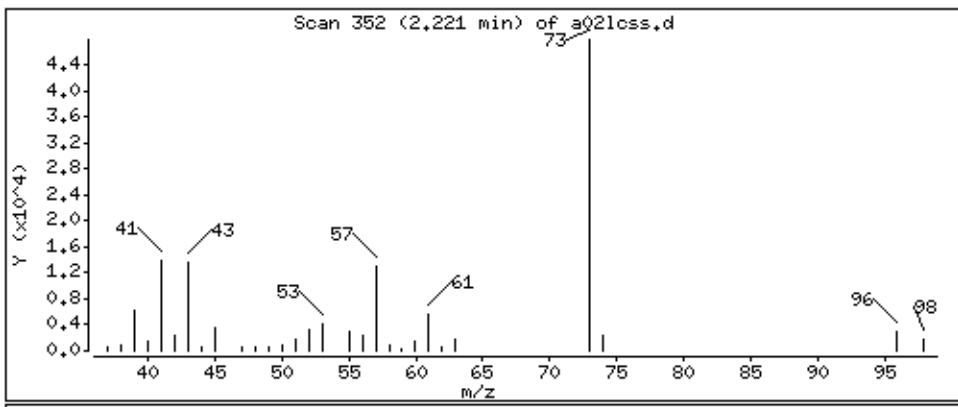
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

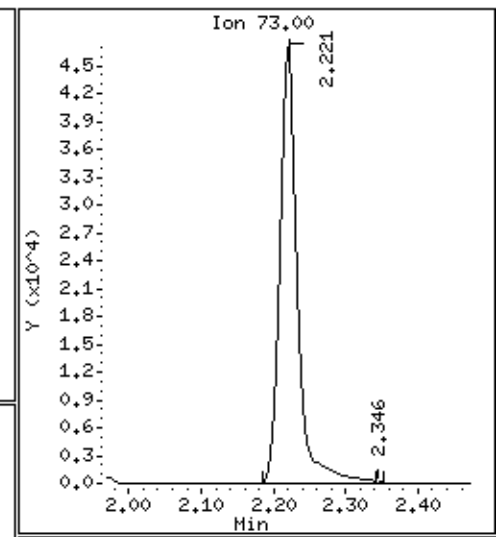
Sample Info: 1711349,139467:5

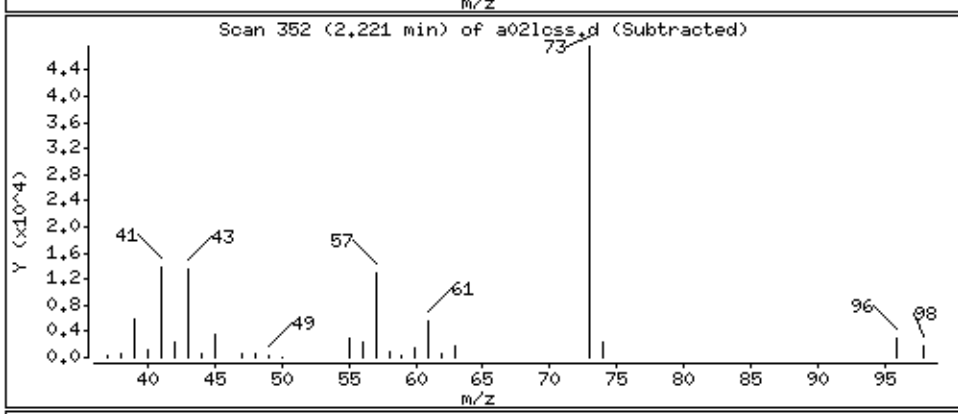
Operator: TMW

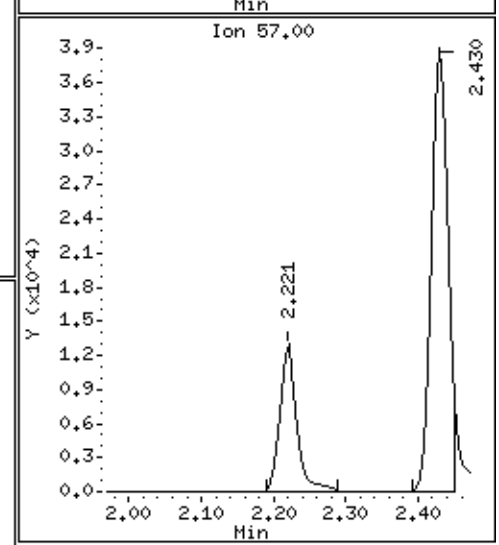
Column phase: DB-624 Column diameter: 0.18

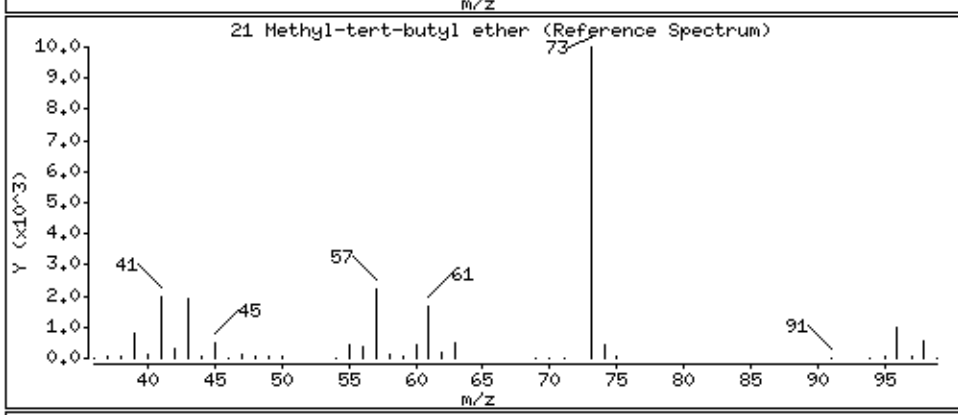
21 Methyl-tert-butyl ether Concentration: 49.2 ppb

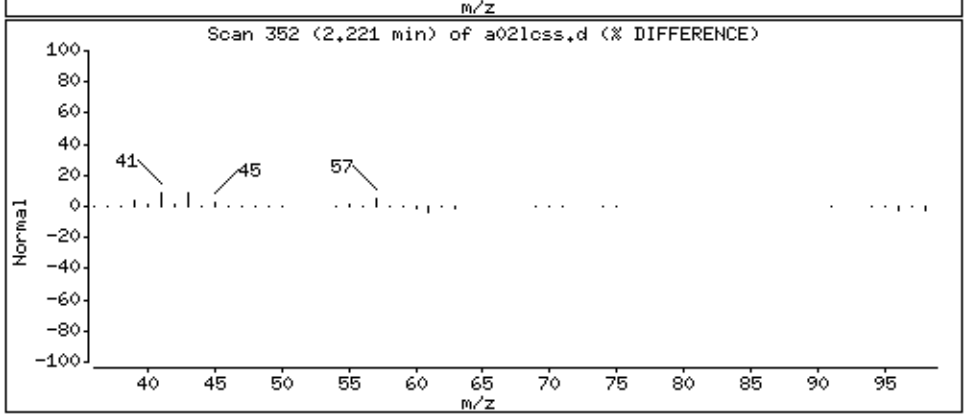












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Date : 19-JAN-2017 15:39

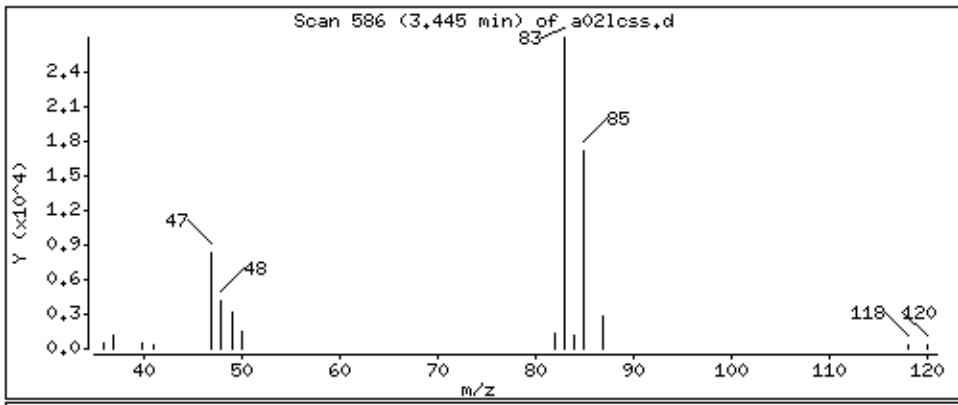
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

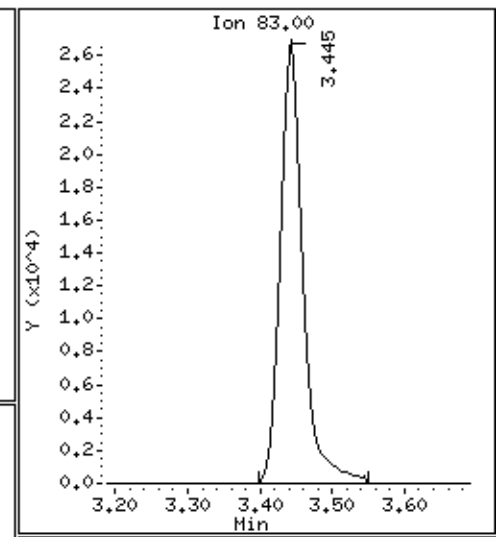
Sample Info: 1711349,139467:5

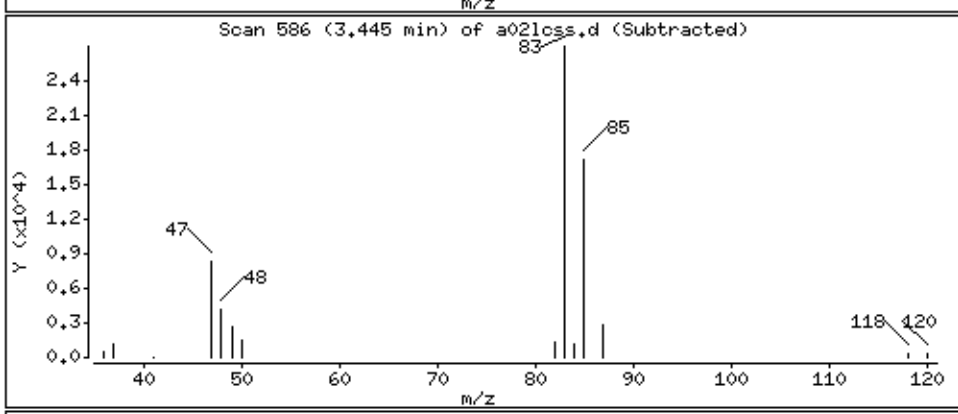
Operator: TMW

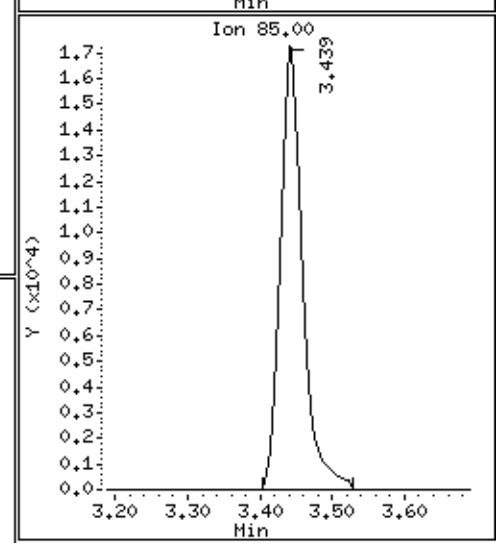
Column phase: DB-624 Column diameter: 0.18

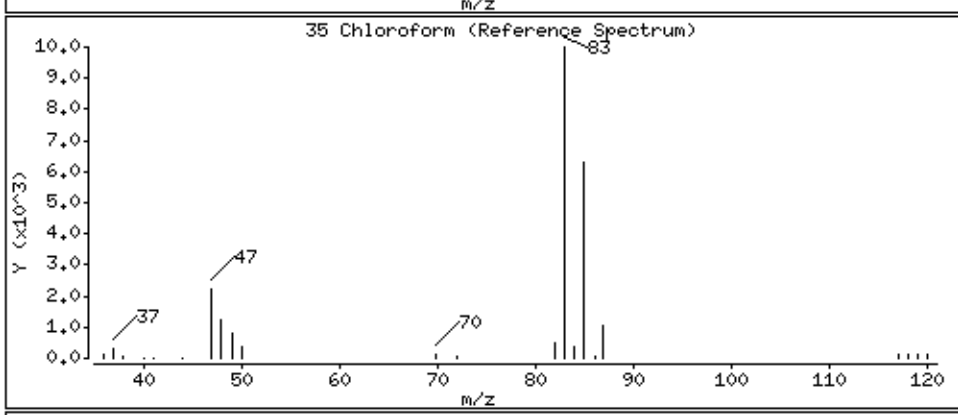
35 Chloroform Concentration: 50.6 ppb

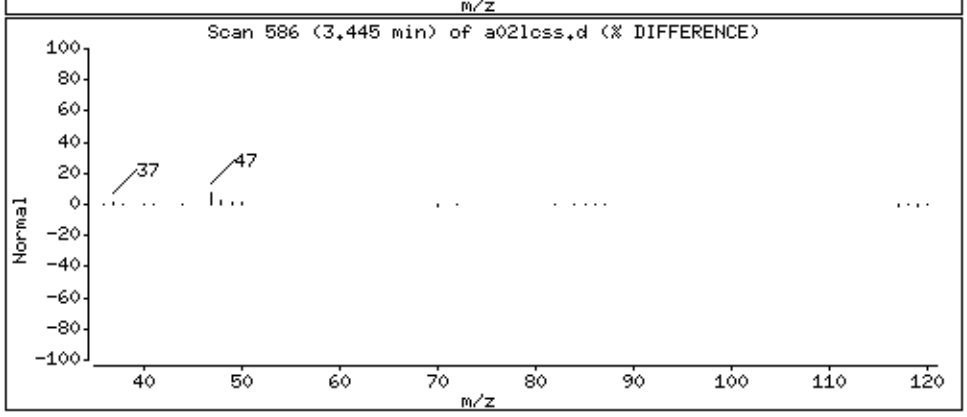












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

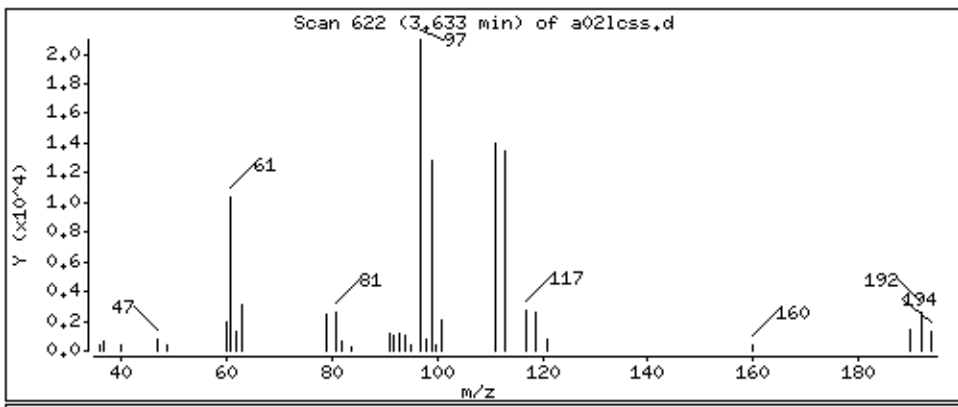
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

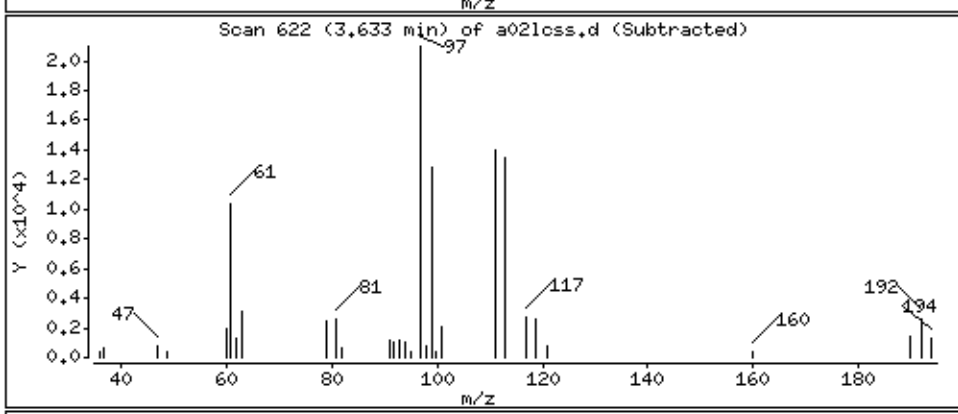
Sample Info: 1711349,139467:5

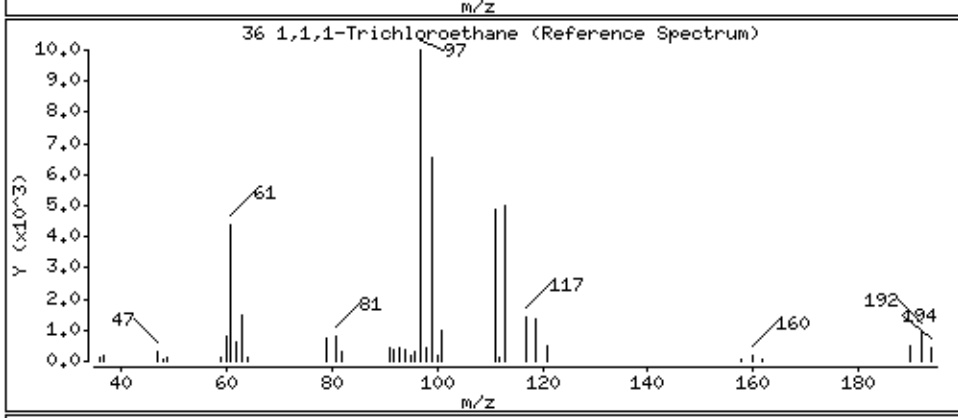
Operator: TMW

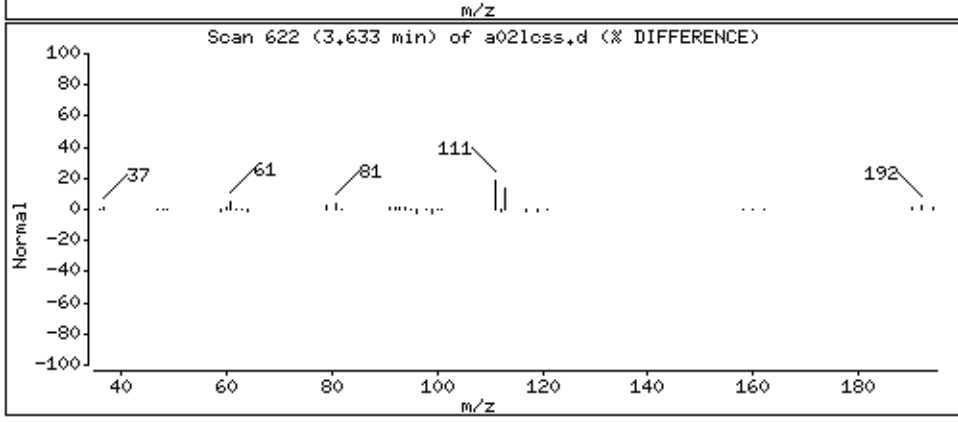
Column phase: DB-624 Column diameter: 0.18

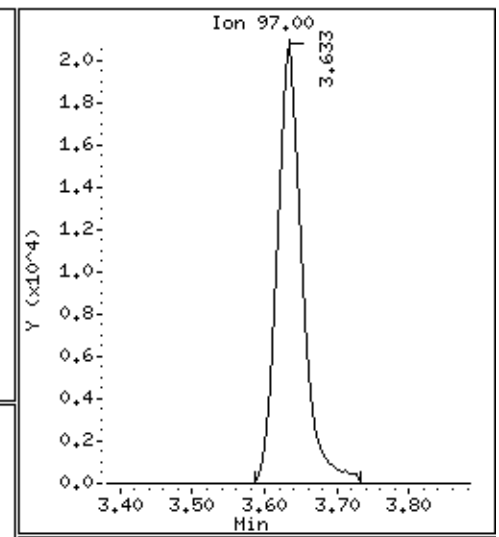
36 1,1,1-Trichloroethane Concentration: 51.4 ppb

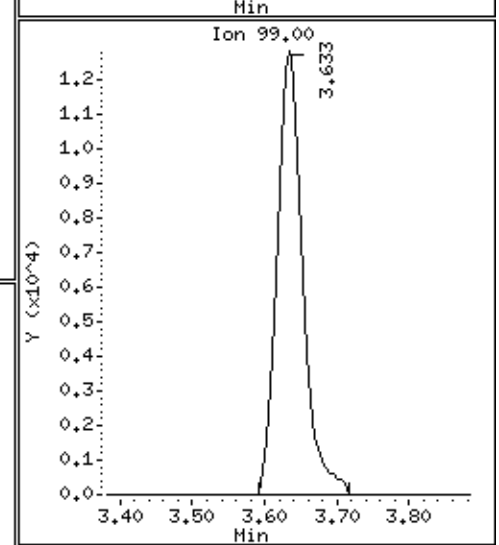


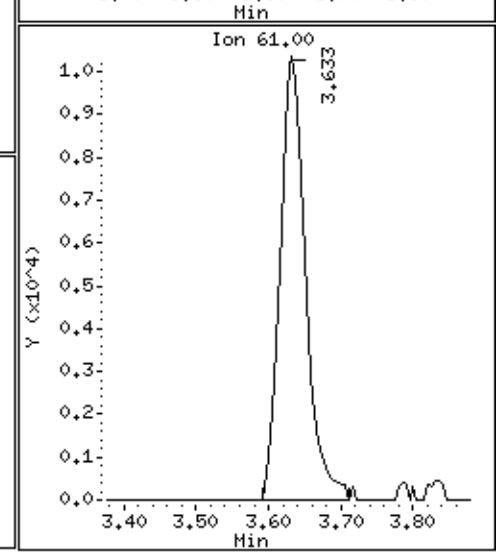












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

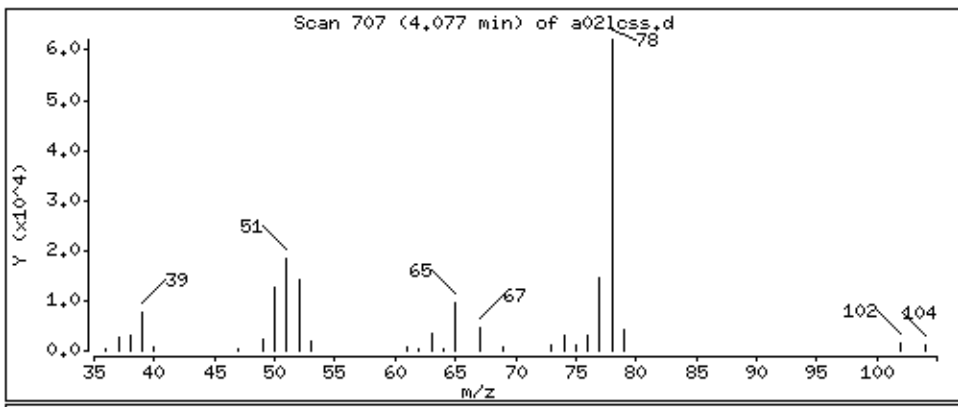
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

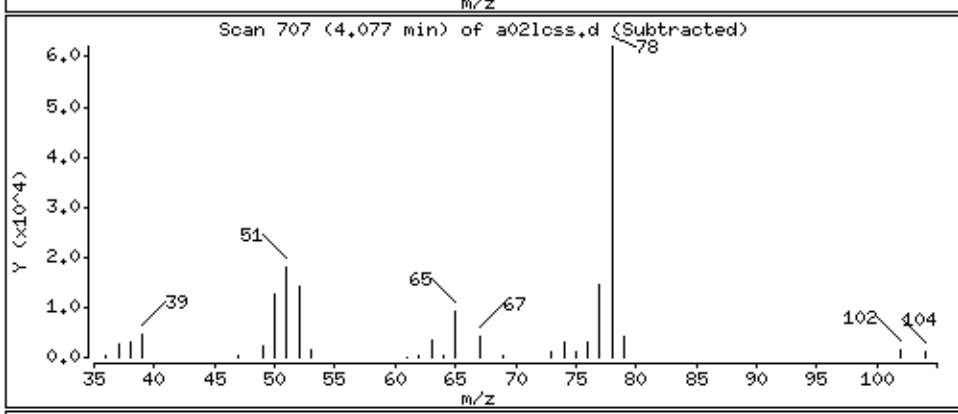
Sample Info: 1711349,139467:5

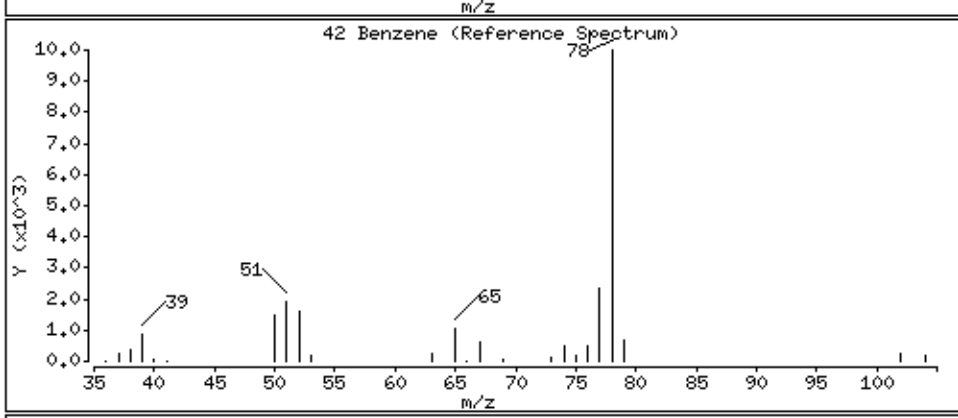
Operator: TMW

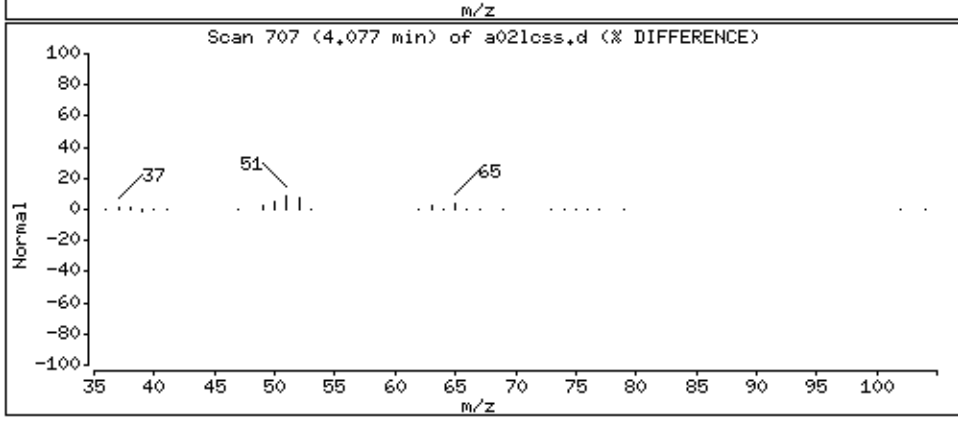
Column phase: DB-624 Column diameter: 0.18

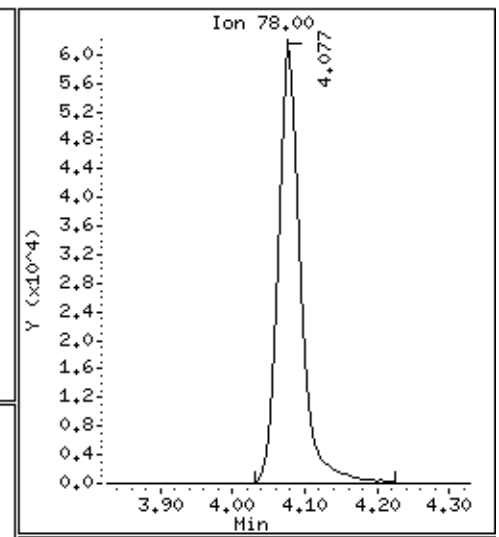
42 Benzene Concentration: 49.4 ppb

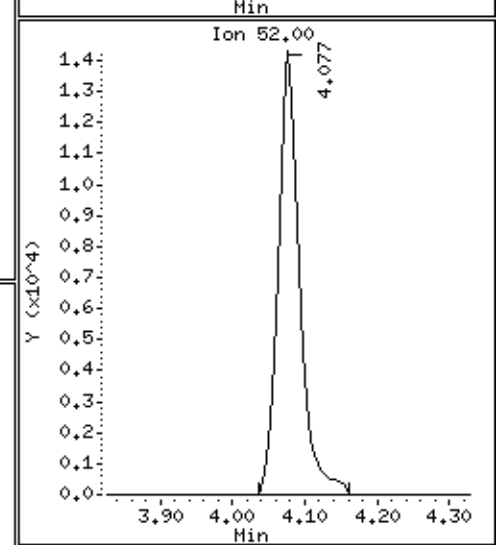


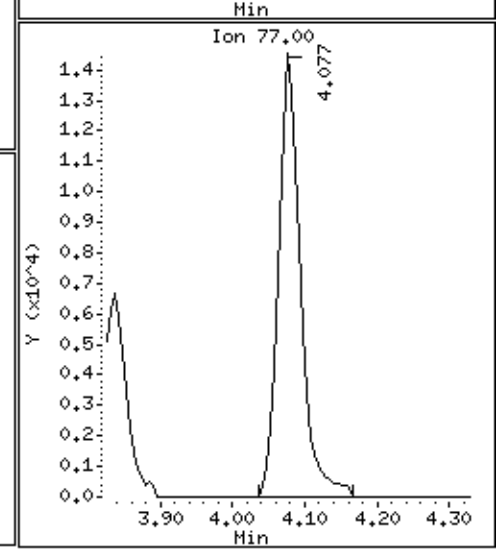












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

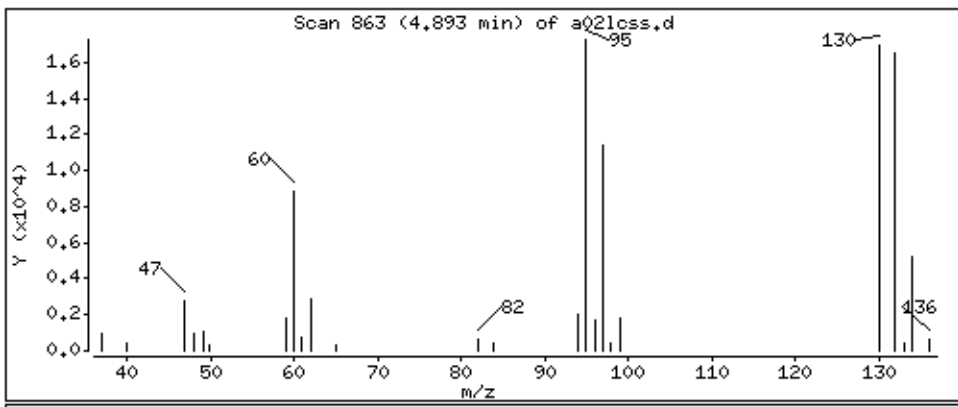
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

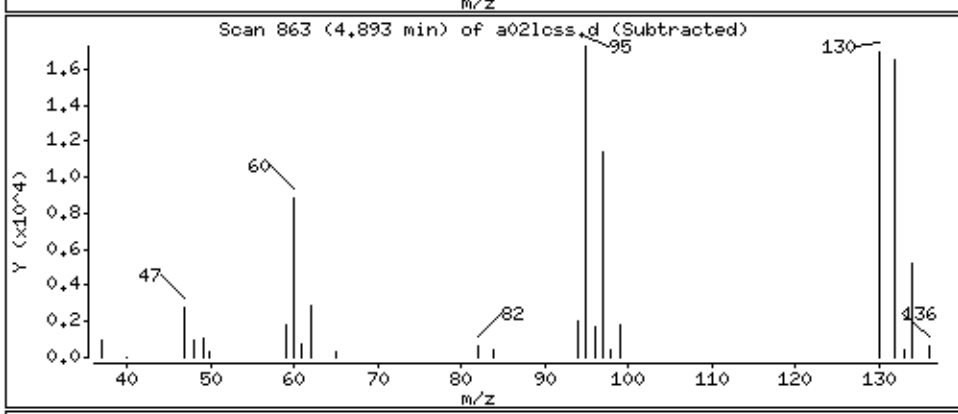
Sample Info: 1711349,139467:5

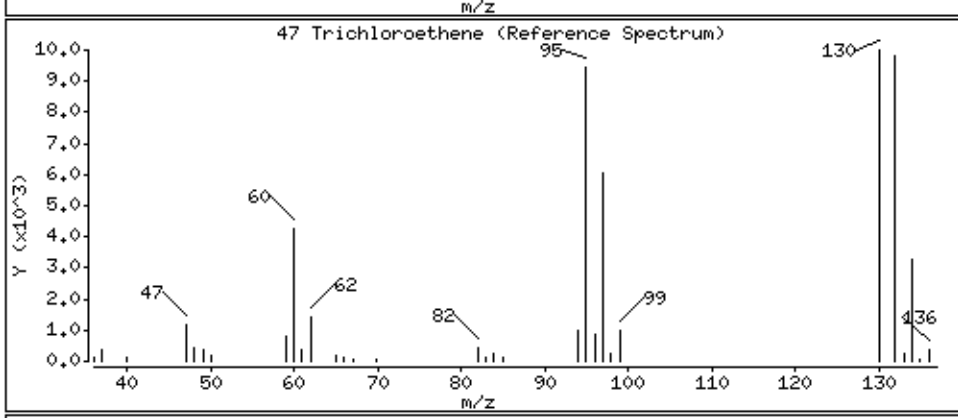
Operator: TMW

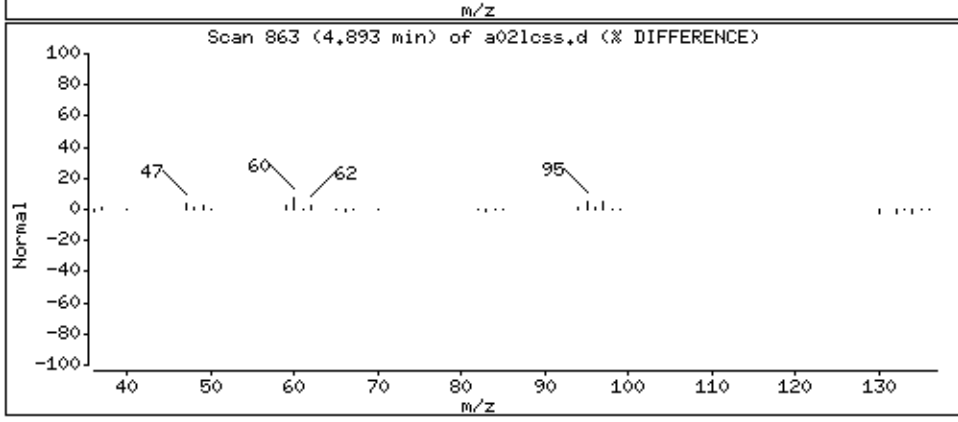
Column phase: DB-624 Column diameter: 0.18

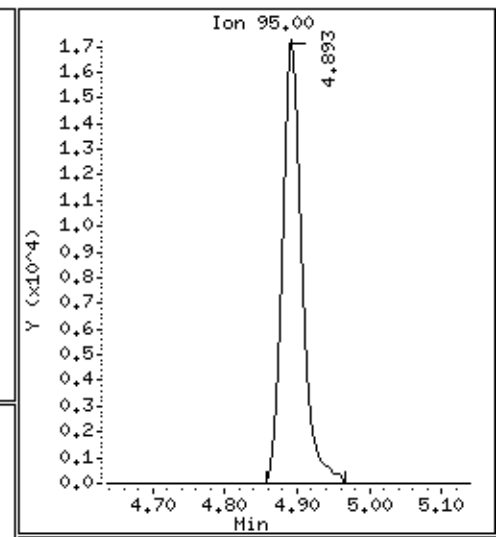
47 Trichloroethene Concentration: 48.5 ppb

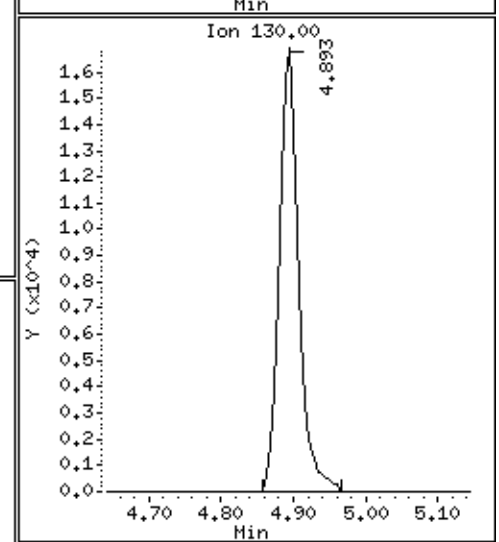


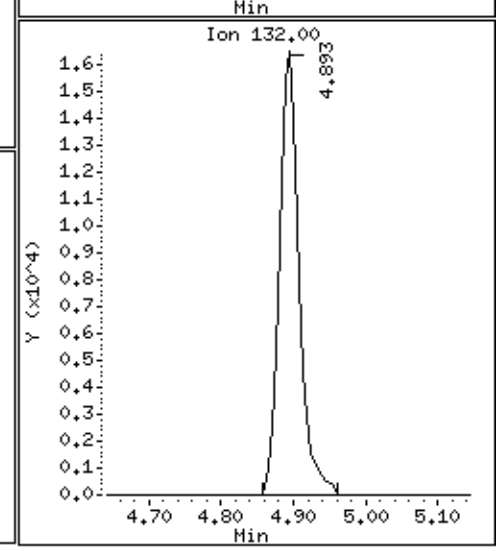












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Date : 19-JAN-2017 15:39

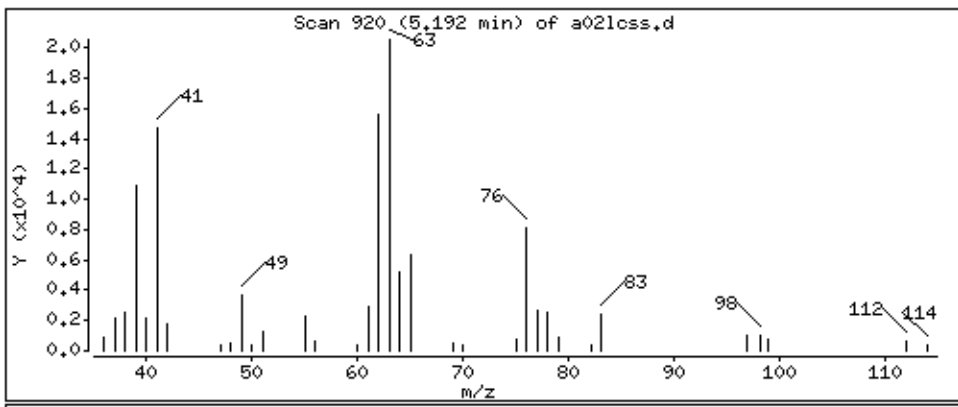
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

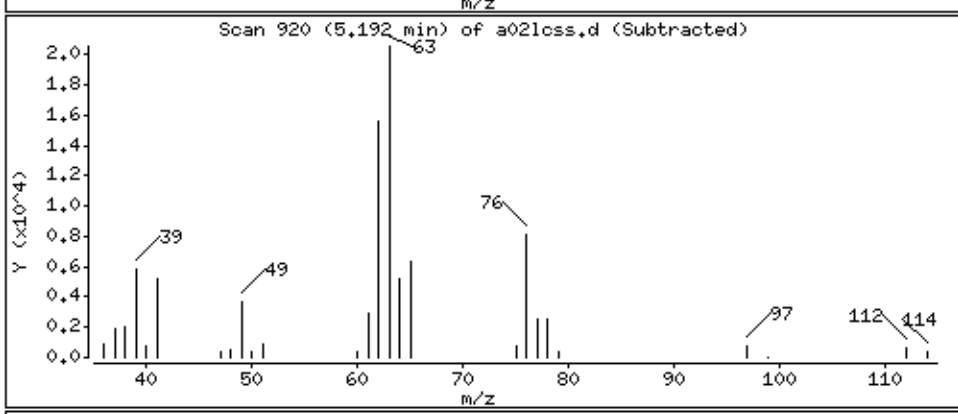
Sample Info: 1711349,139467:5

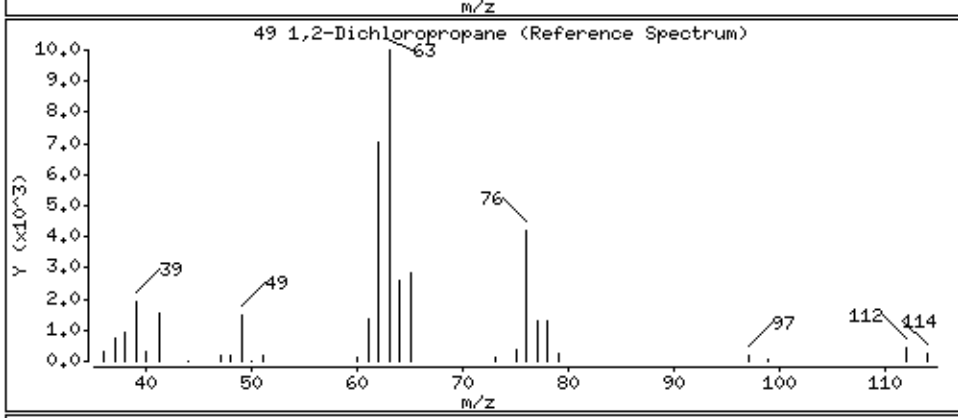
Operator: TMW

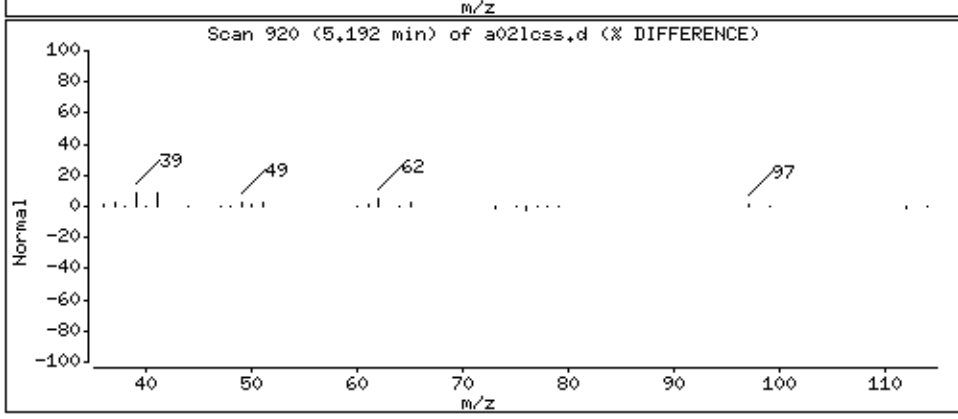
Column phase: DB-624 Column diameter: 0.18

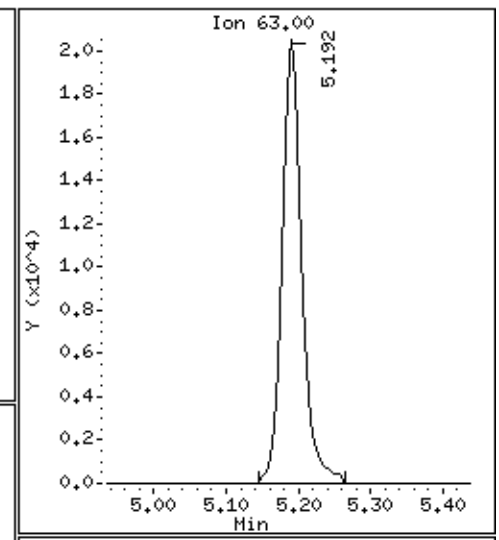
49 1,2-Dichloropropane Concentration: 53.1 ppb

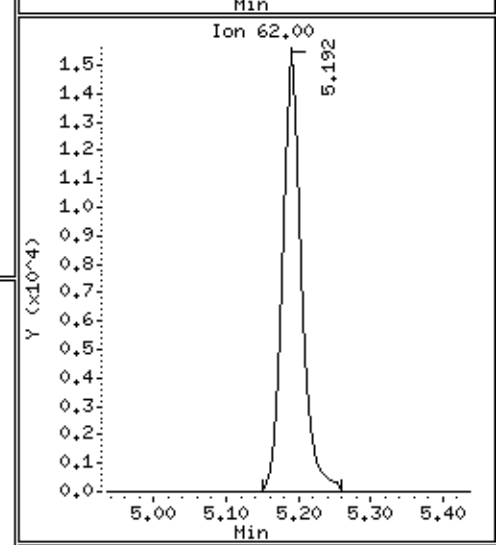


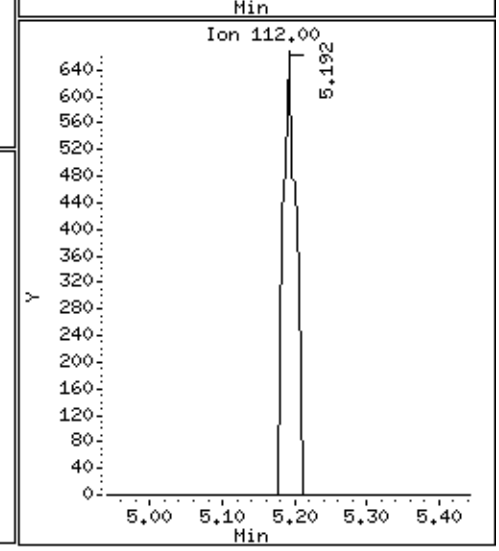












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Date : 19-JAN-2017 15:39

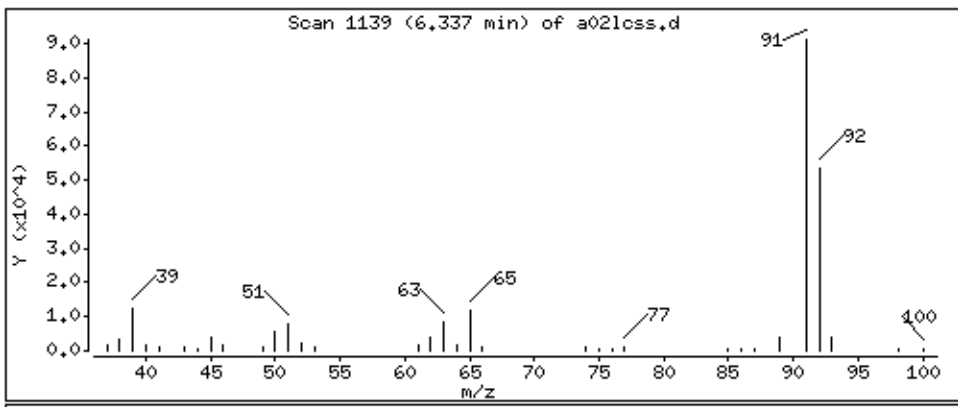
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

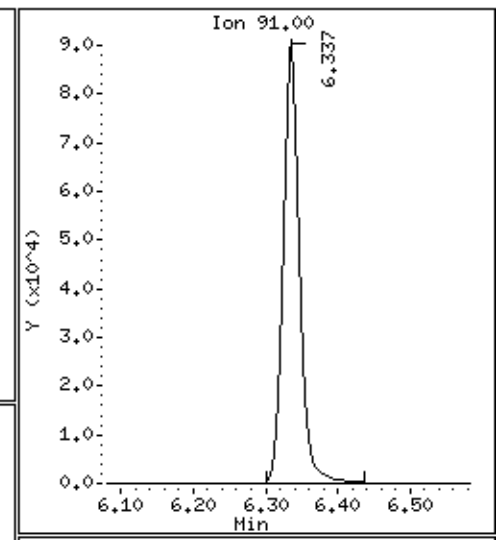
Sample Info: 1711349,139467:5

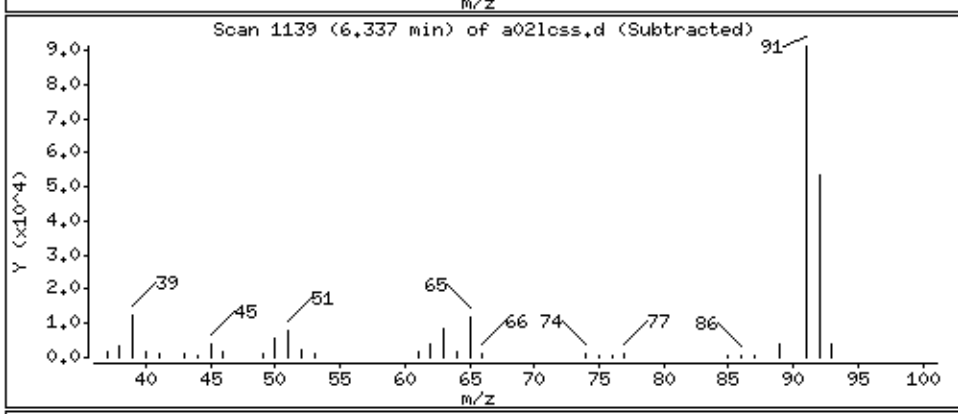
Operator: TMW

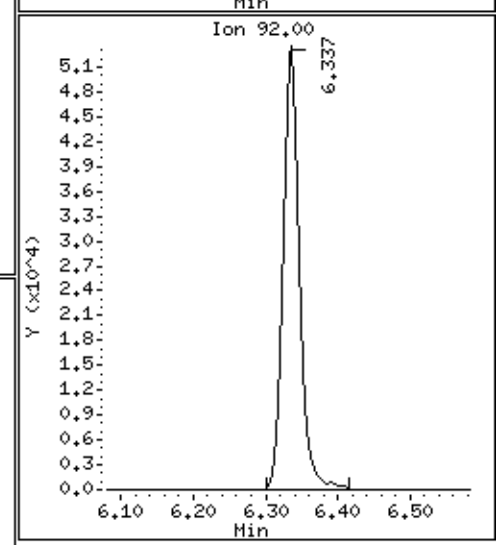
Column phase: DB-624 Column diameter: 0.18

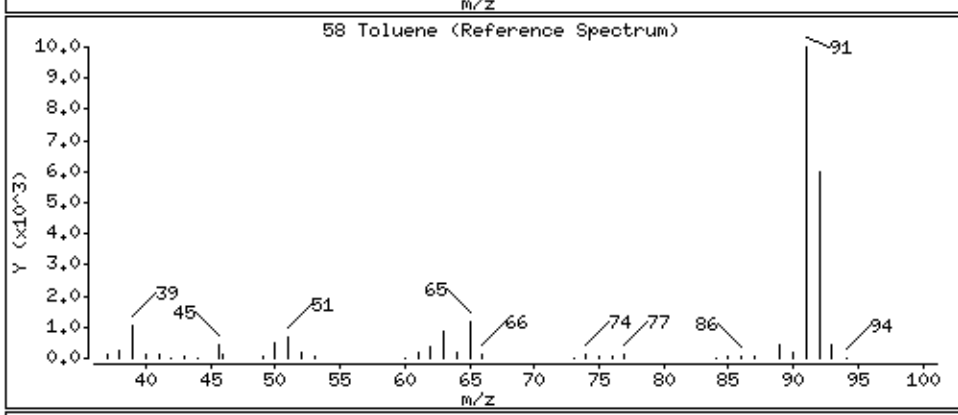
58 Toluene Concentration: 52.3 ppb

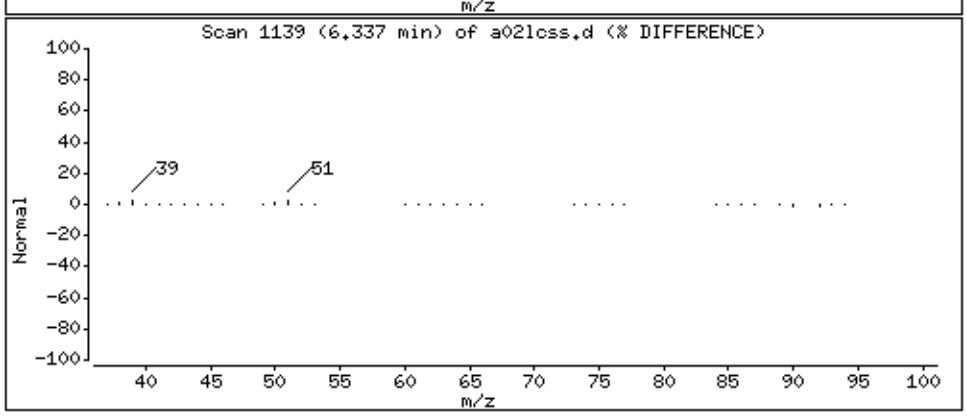












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Date : 19-JAN-2017 15:39

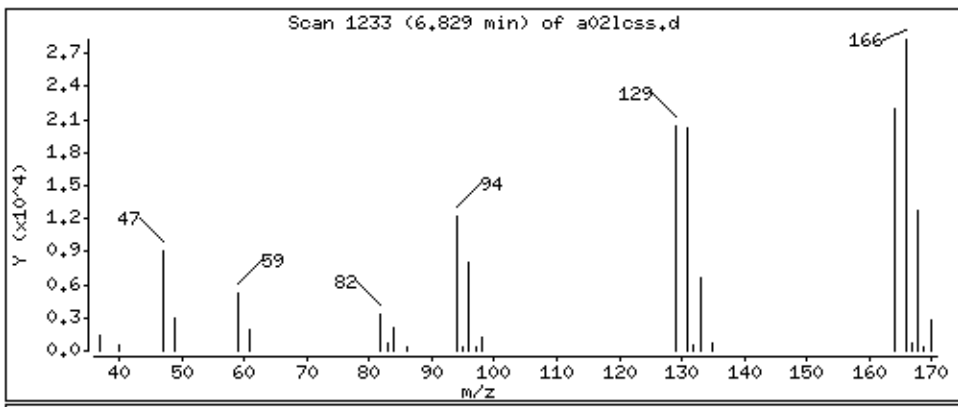
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

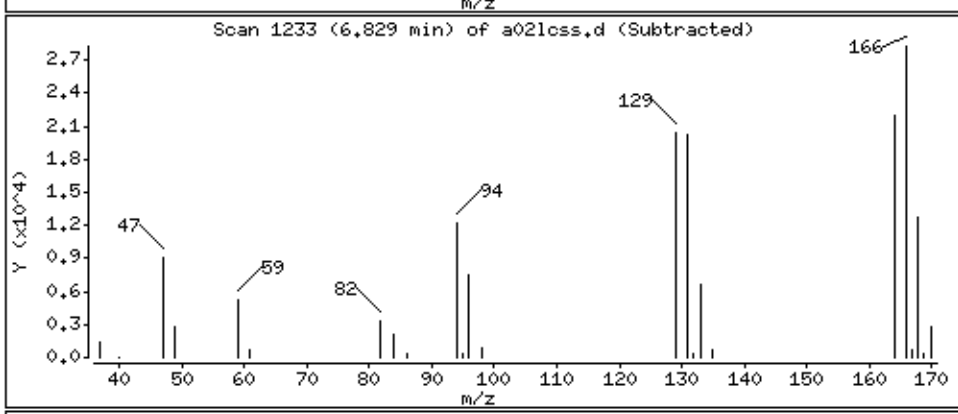
Sample Info: 1711349,139467:5

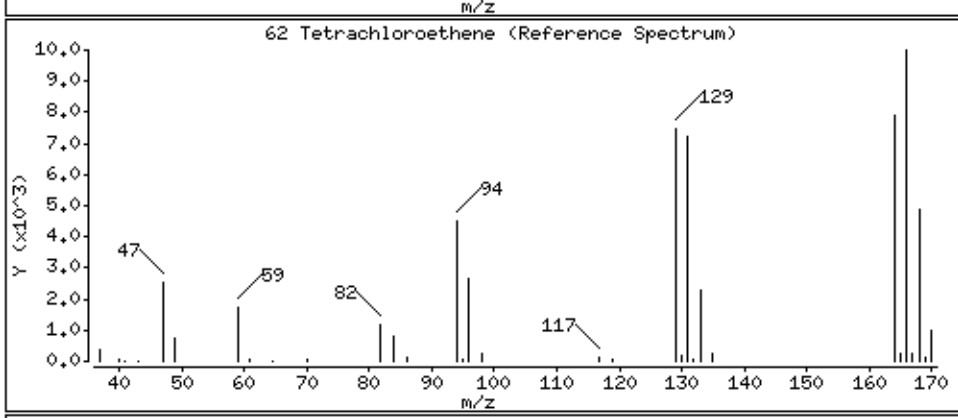
Operator: TMW

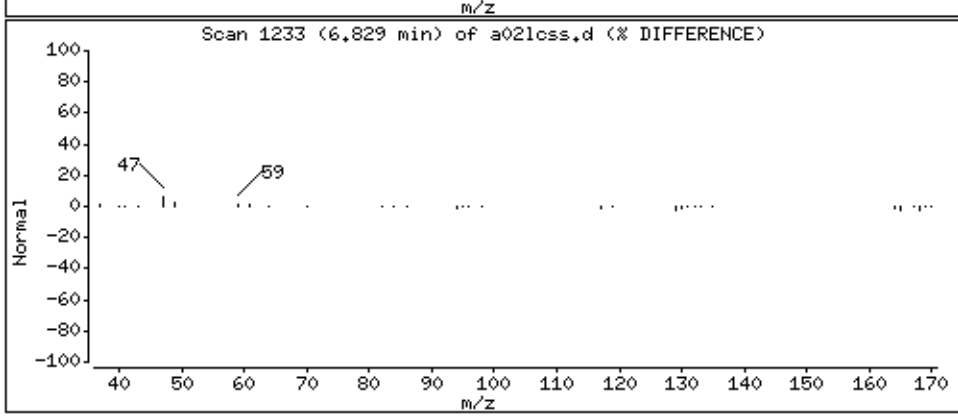
Column phase: DB-624 Column diameter: 0.18

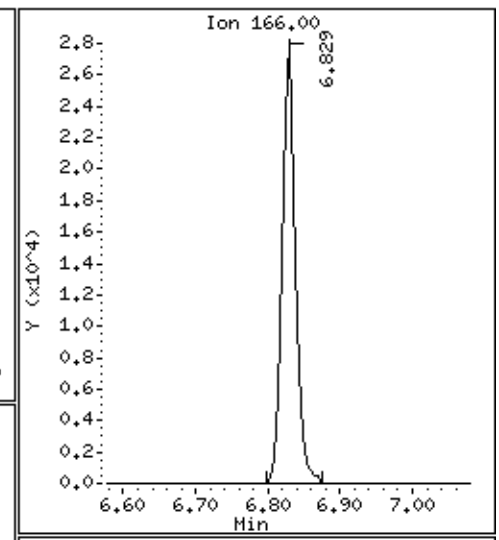
62 Tetrachloroethene Concentration: 49.6 ppb

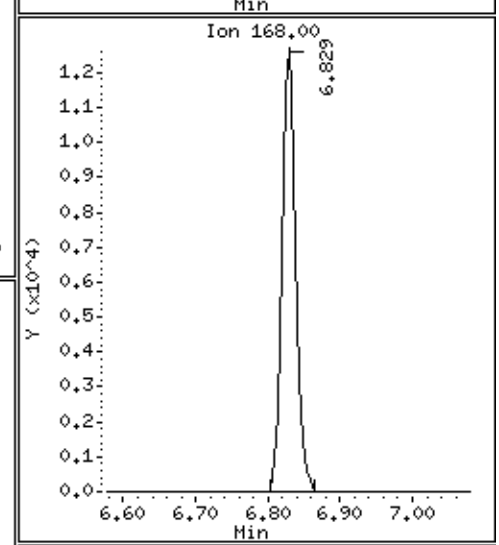


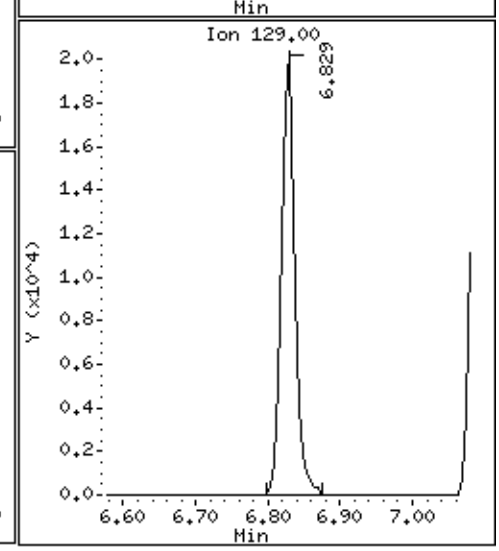












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Date : 19-JAN-2017 15:39

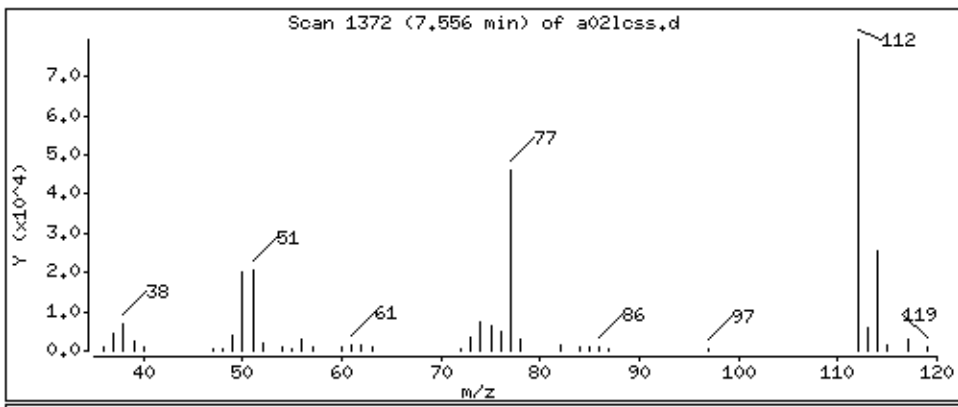
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

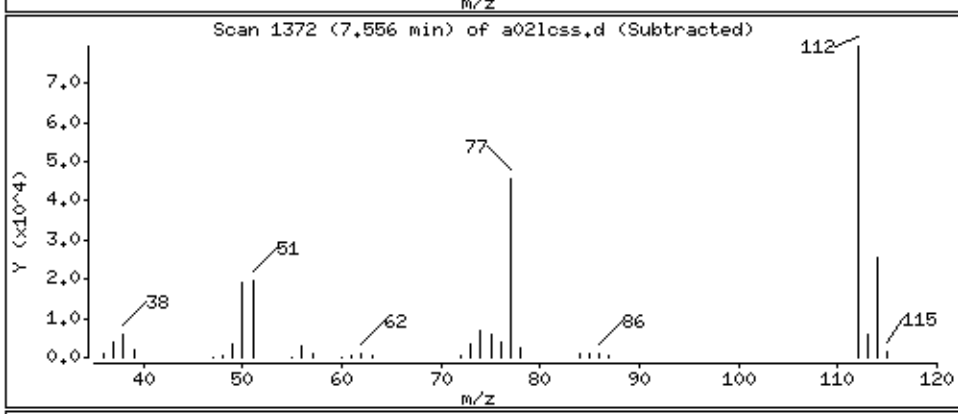
Sample Info: 1711349,139467:5

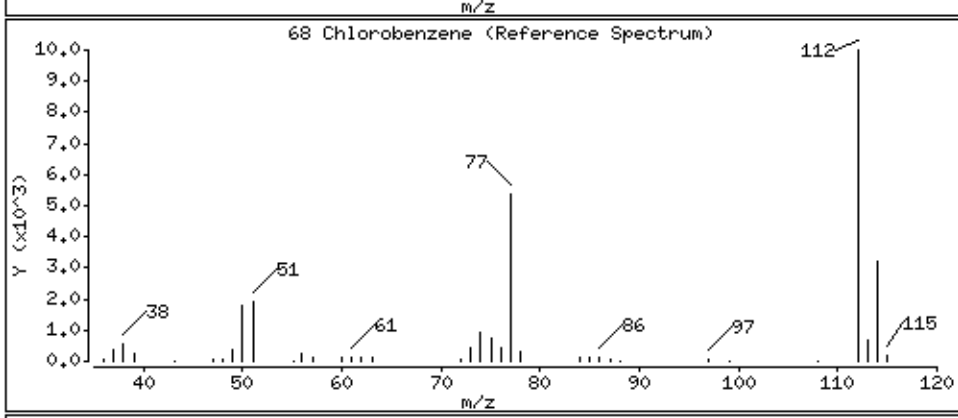
Operator: TMW

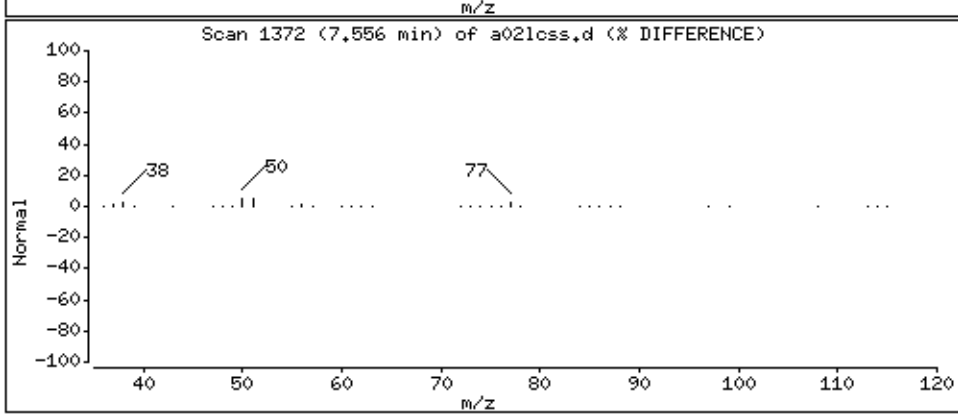
Column phase: DB-624 Column diameter: 0.18

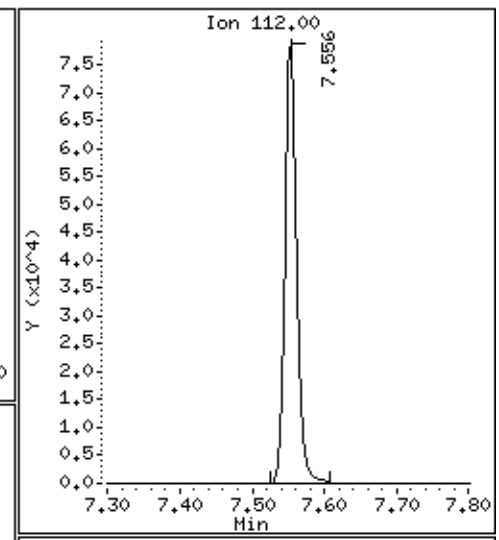
68 Chlorobenzene Concentration: 48.4 ppb

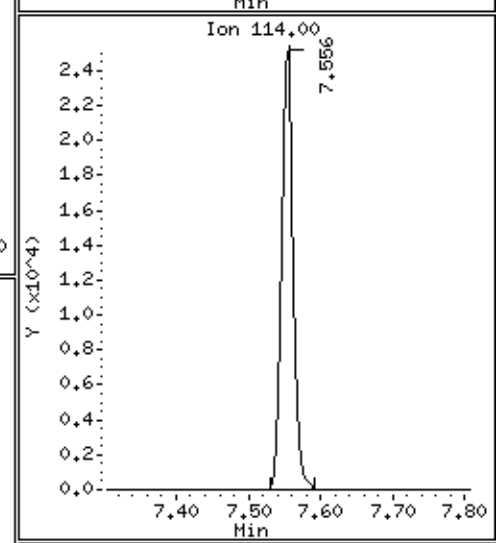


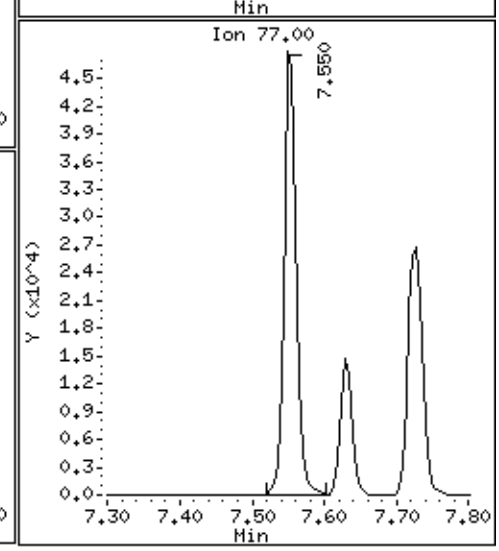












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Date : 19-JAN-2017 15:39

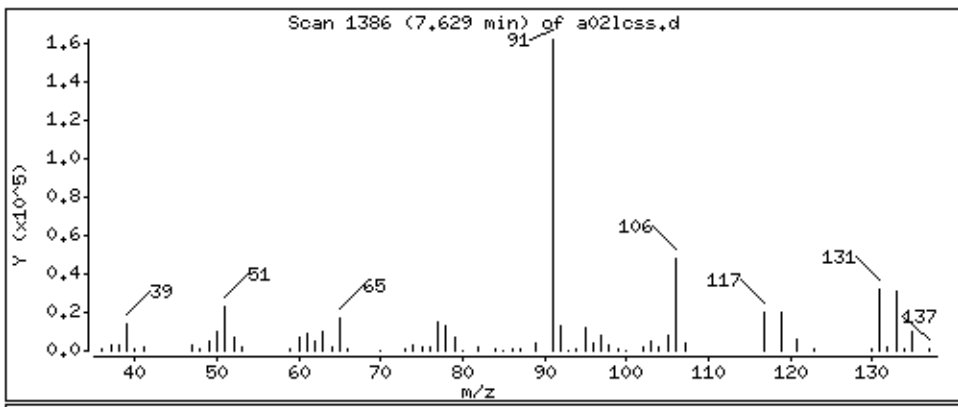
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

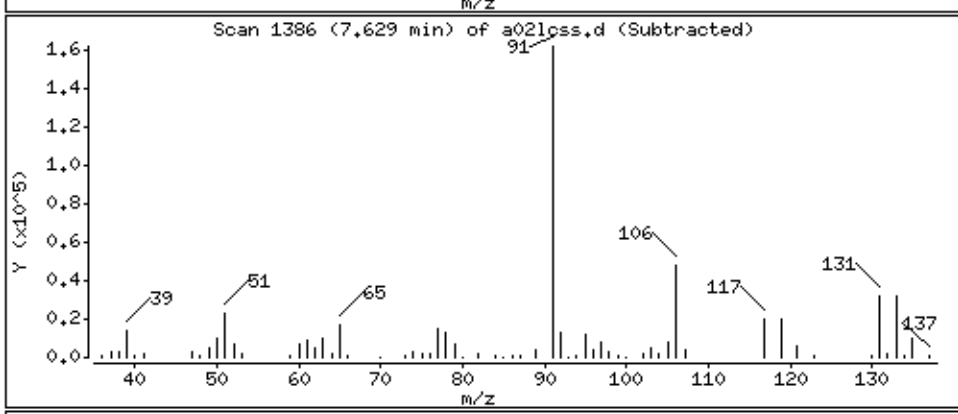
Sample Info: 1711349,139467:5

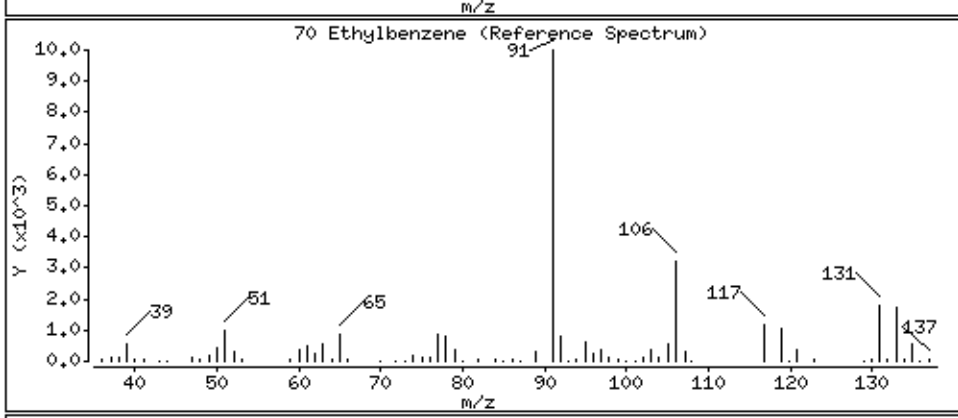
Operator: TMW

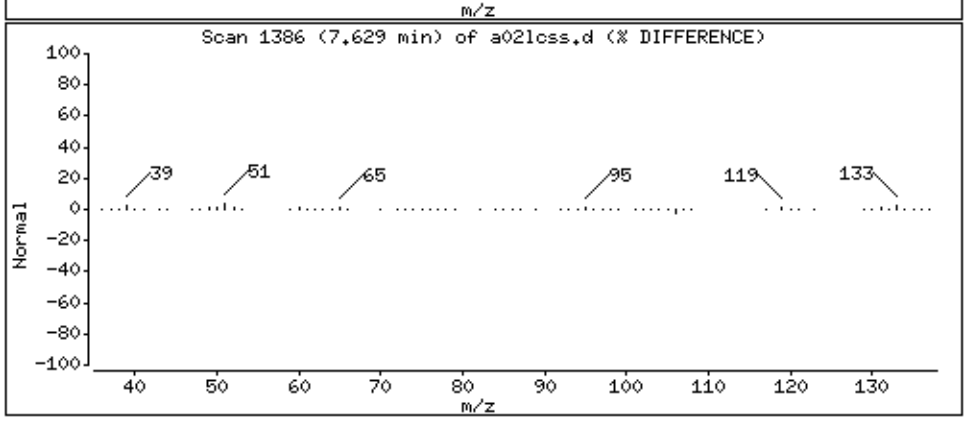
Column phase: DB-624 Column diameter: 0.18

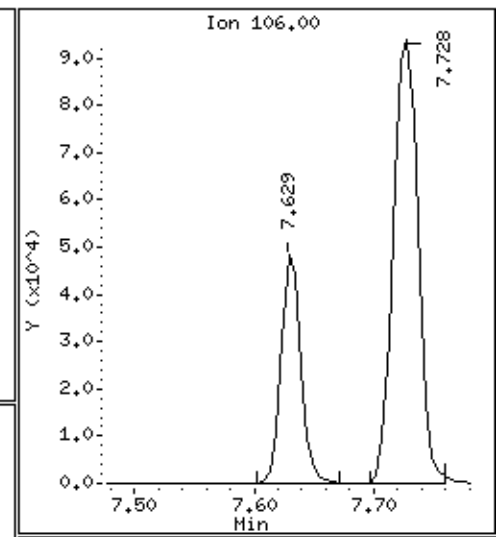
70 Ethylbenzene Concentration: 49.6 ppb

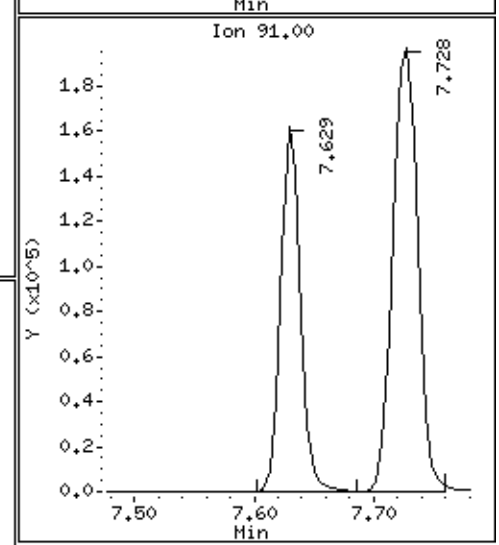












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Date : 19-JAN-2017 15:39

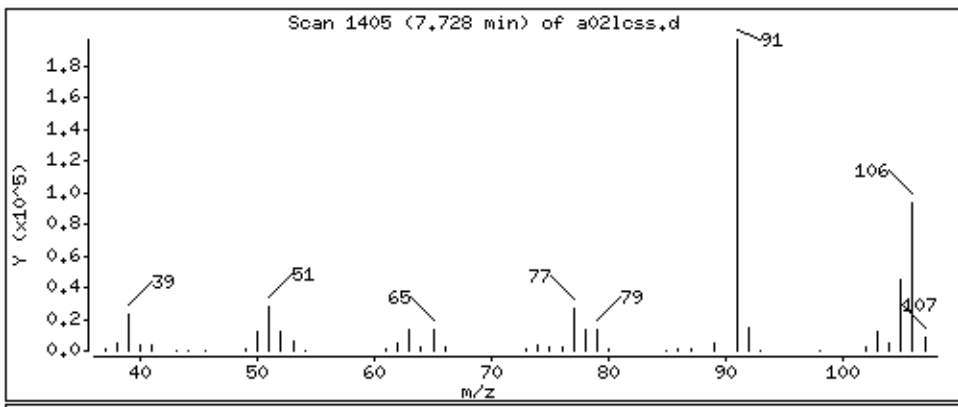
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

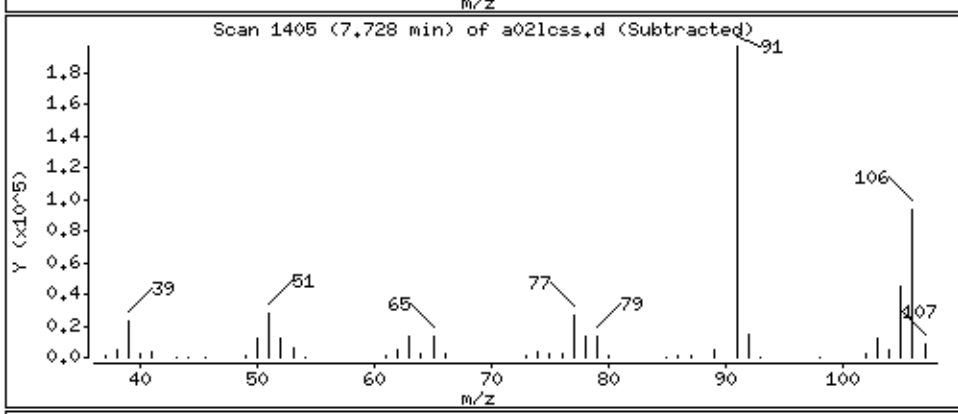
Sample Info: 1711349,139467:5

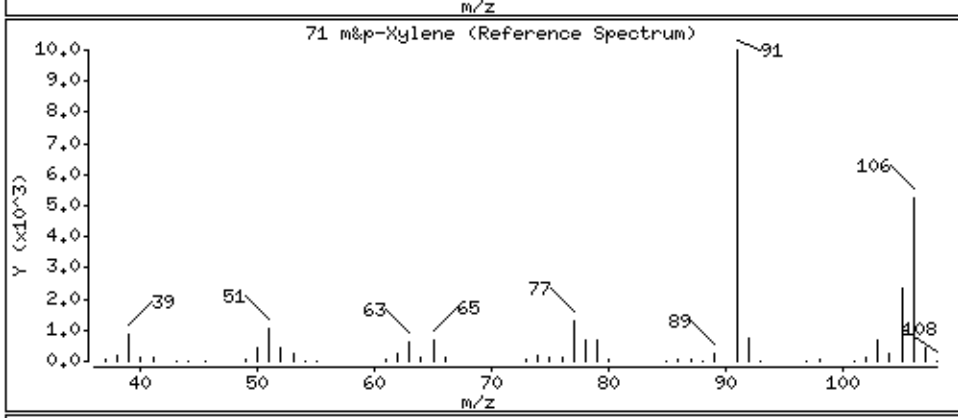
Operator: TMW

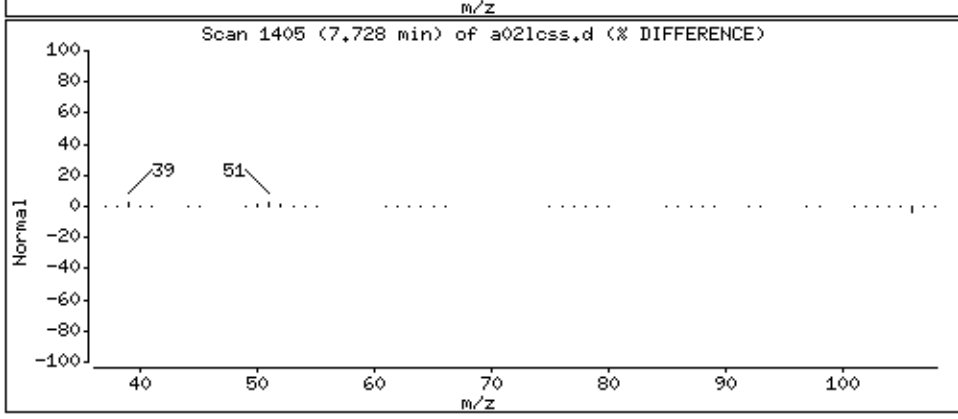
Column phase: DB-624 Column diameter: 0.18

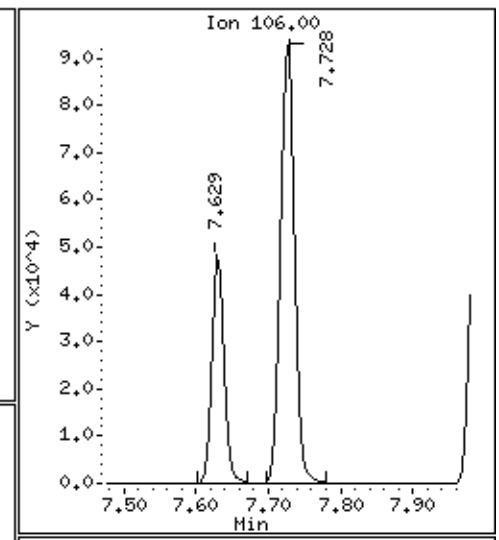
71 m&p-Xylene Concentration: 105 ppb

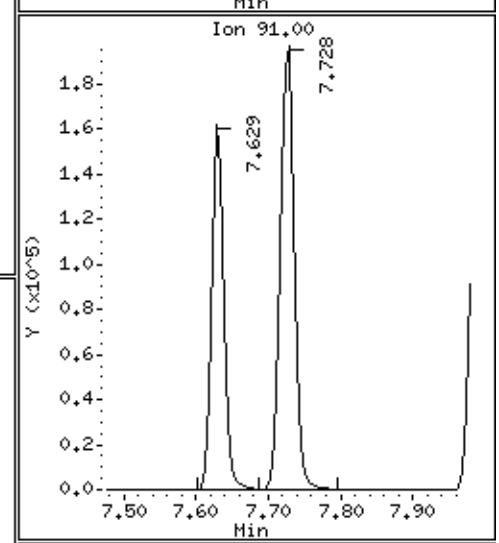


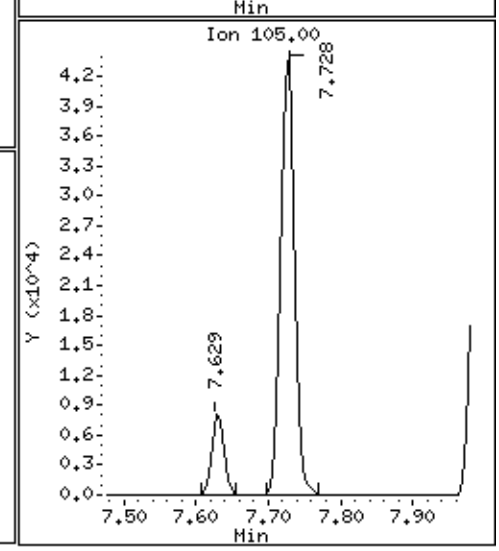












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Date : 19-JAN-2017 15:39

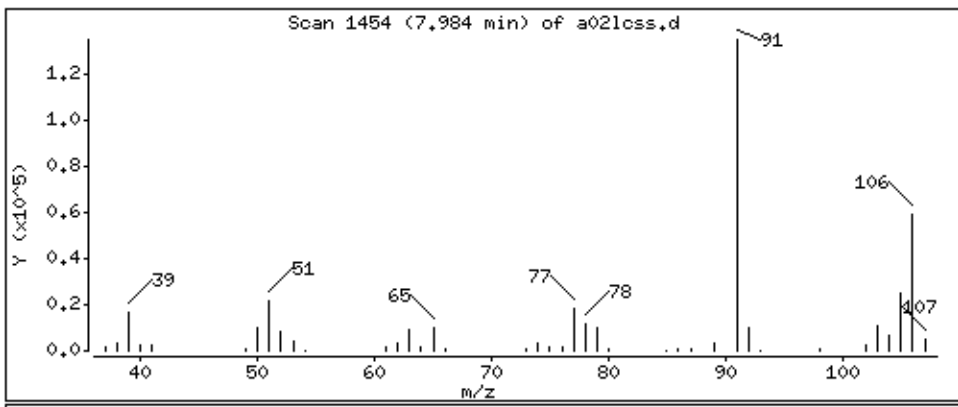
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

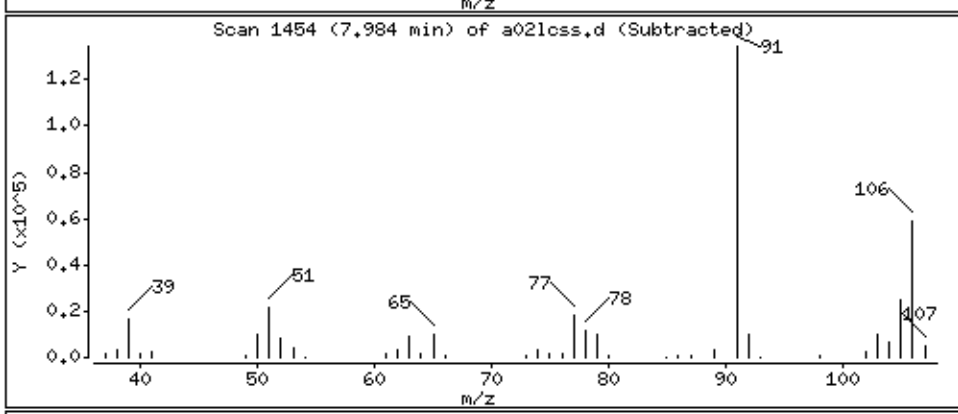
Sample Info: 1711349,139467:5

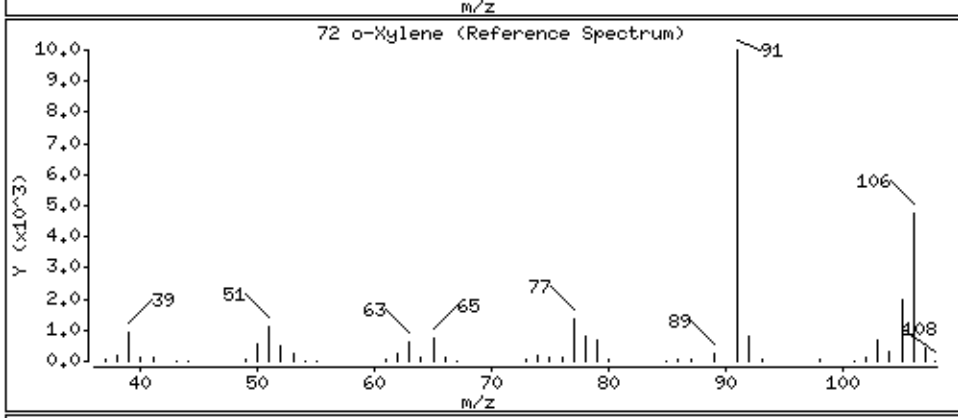
Operator: TMW

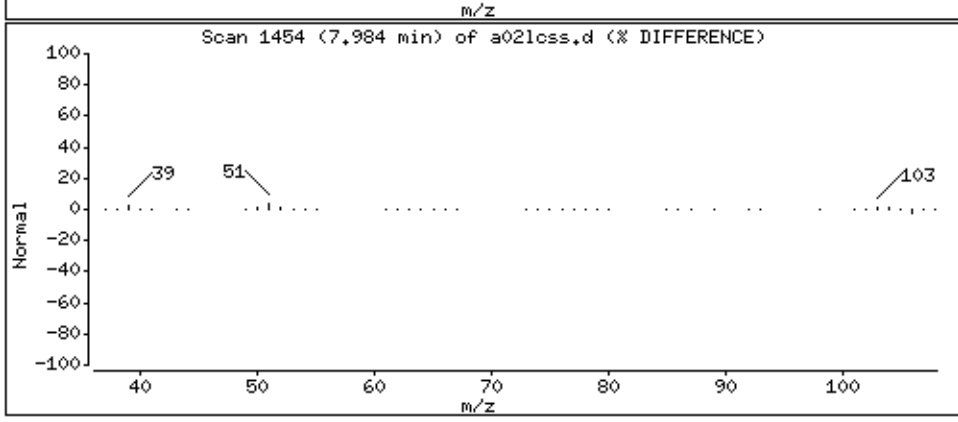
Column phase: DB-624 Column diameter: 0.18

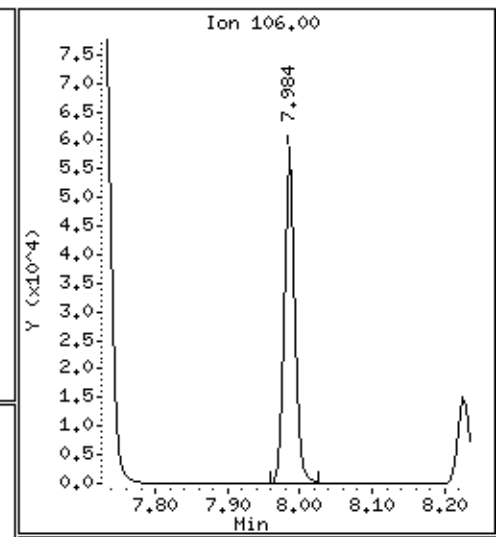
72 o-Xylene Concentration: 47.8 ppb

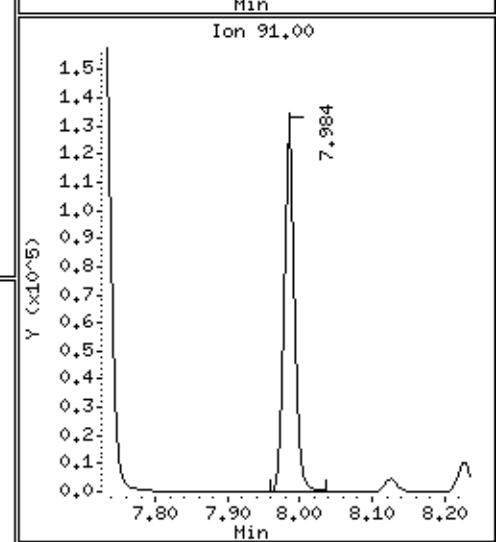


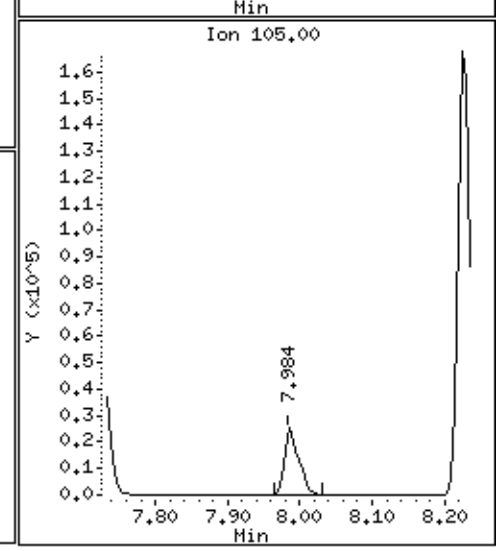












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

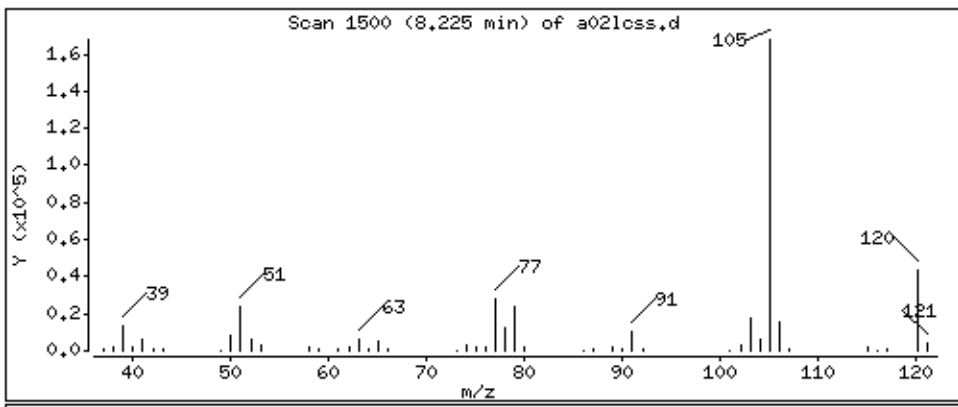
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

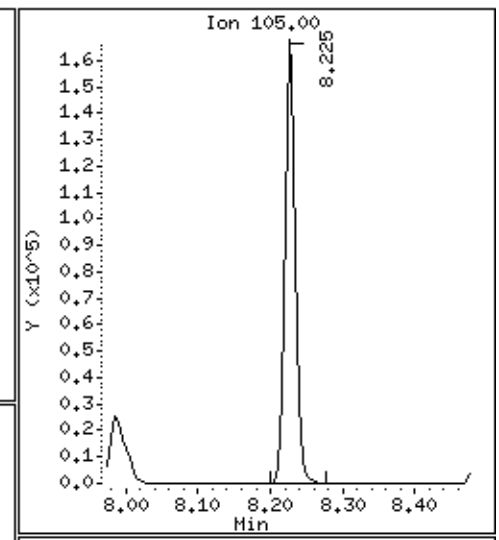
Sample Info: 1711349,139467:5

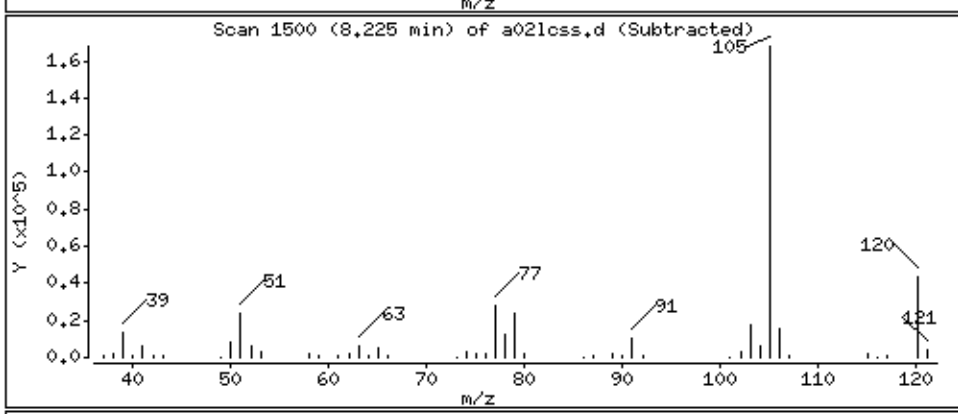
Operator: TMW

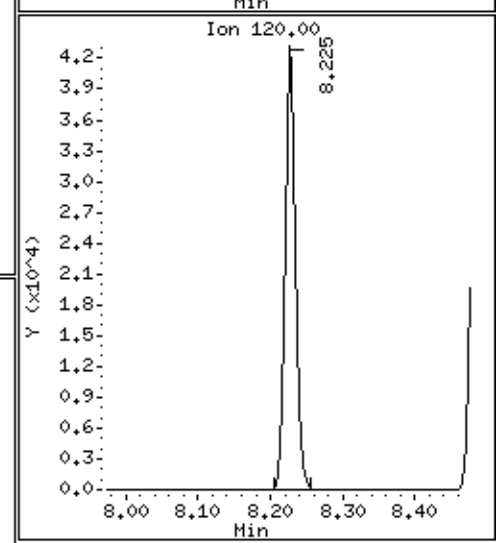
Column phase: DB-624 Column diameter: 0.18

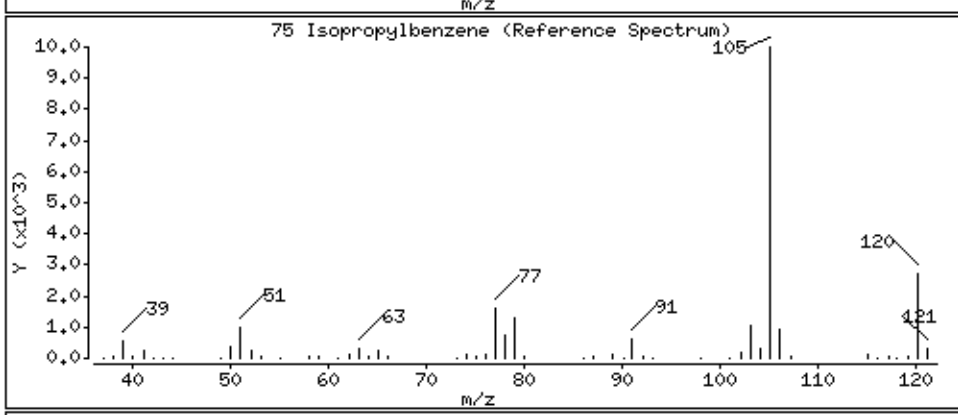
75 Isopropylbenzene Concentration: 49.7 ppb

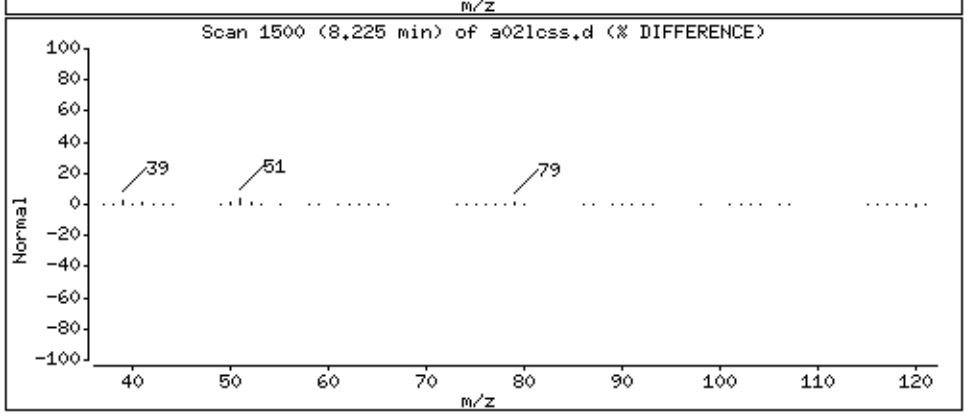












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Date : 19-JAN-2017 15:39

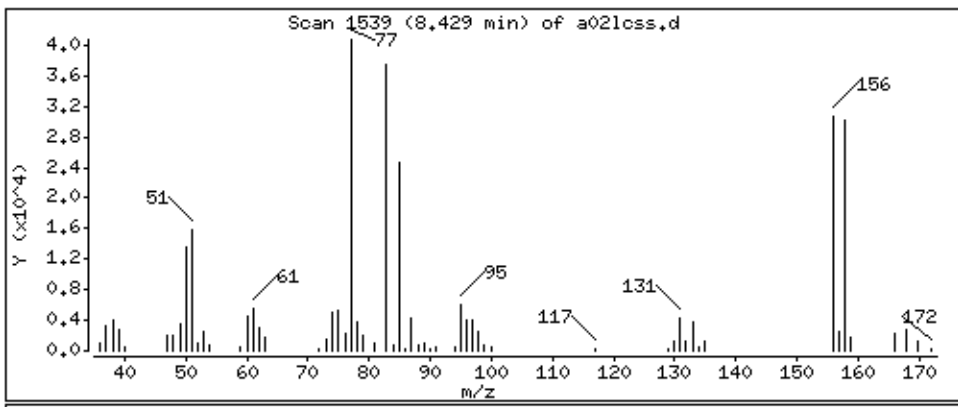
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

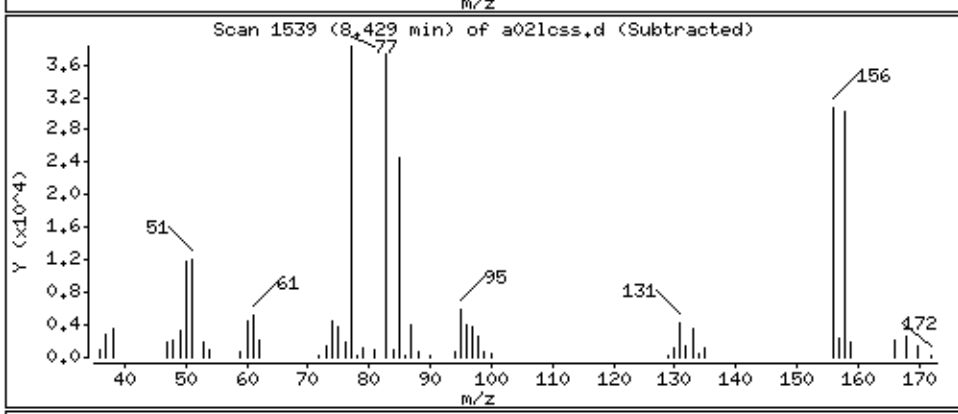
Sample Info: 1711349,139467:5

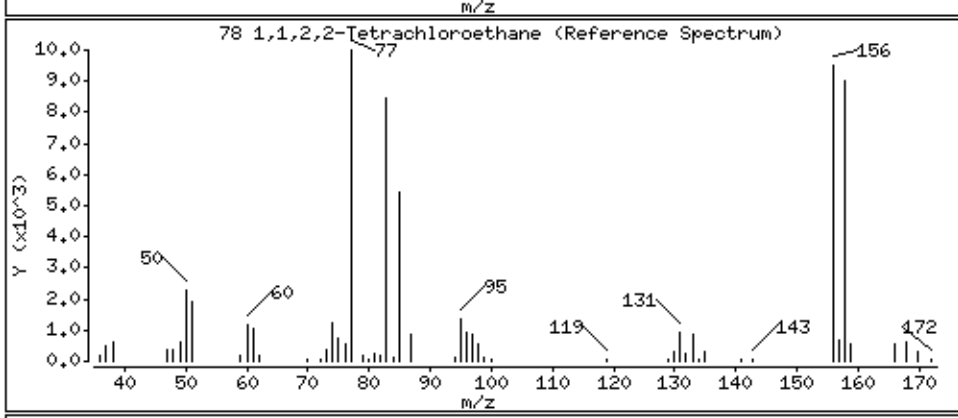
Operator: TMW

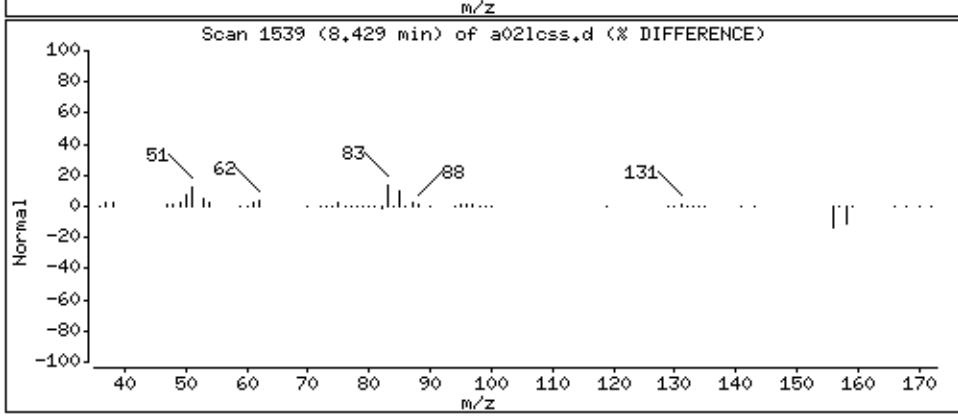
Column phase: DB-624 Column diameter: 0.18

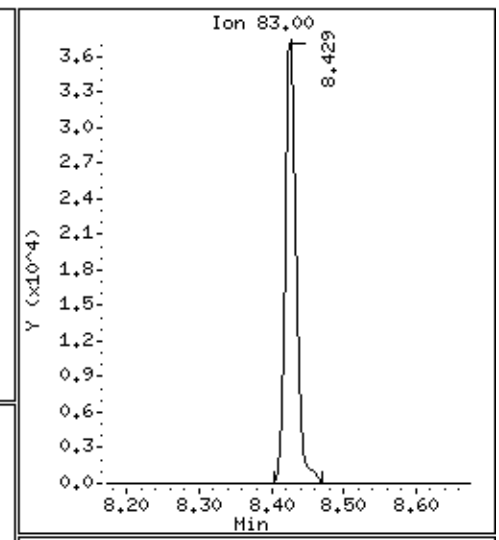
78 1,1,2,2-Tetrachloroethane Concentration: 50.2 ppb

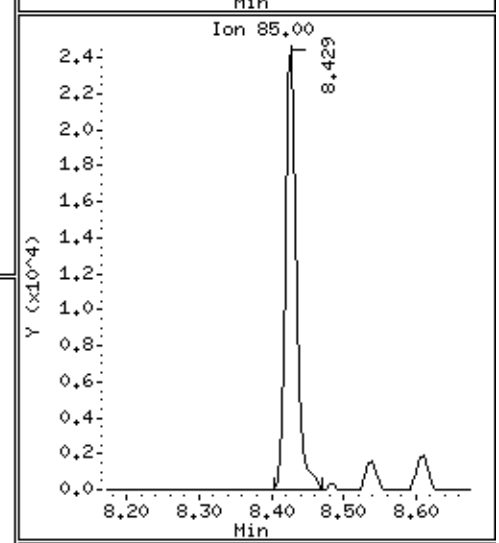


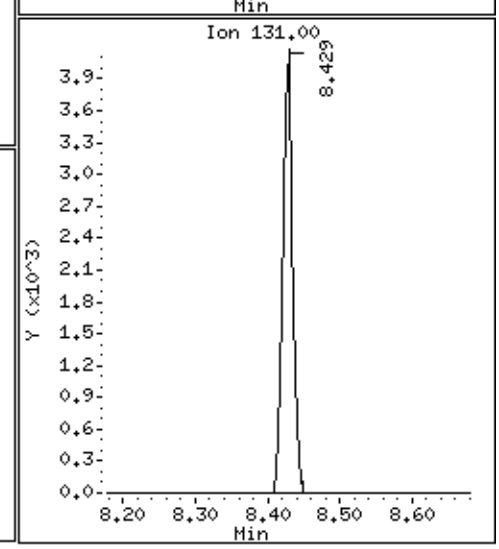












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

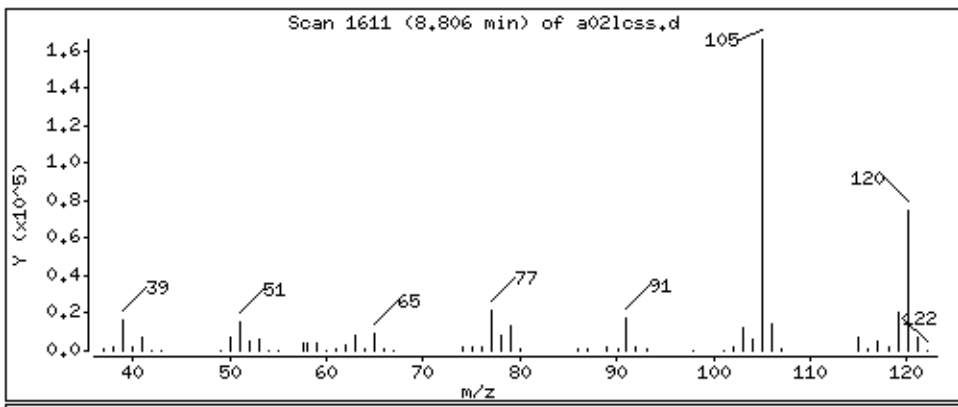
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

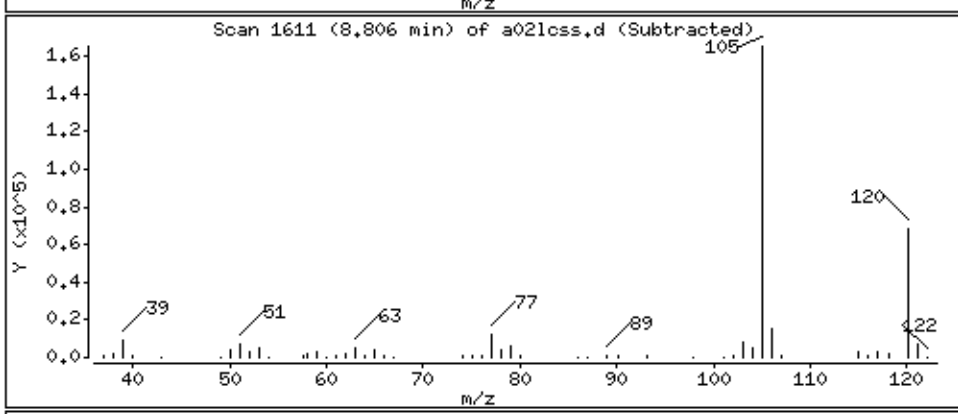
Sample Info: 1711349,139467:5

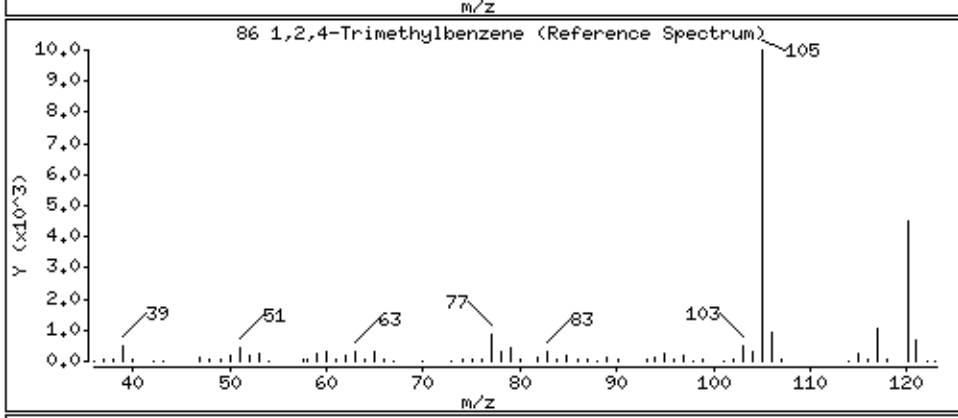
Operator: TMW

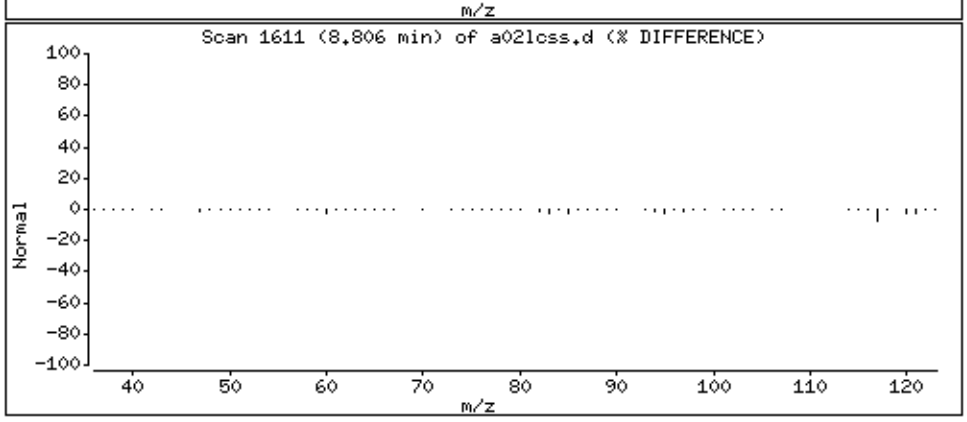
Column phase: DB-624 Column diameter: 0.18

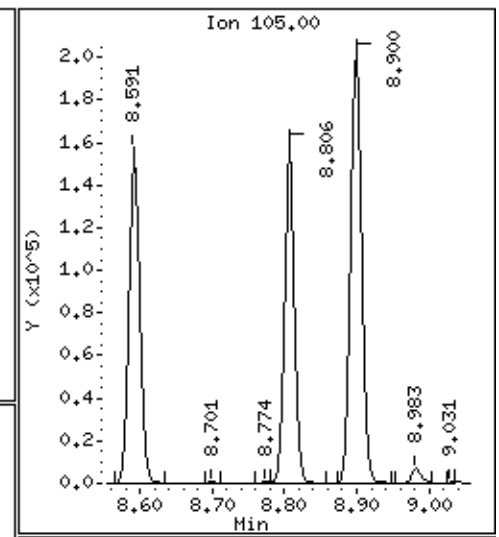
86 1,2,4-Trimethylbenzene Concentration: 49.9 ppb

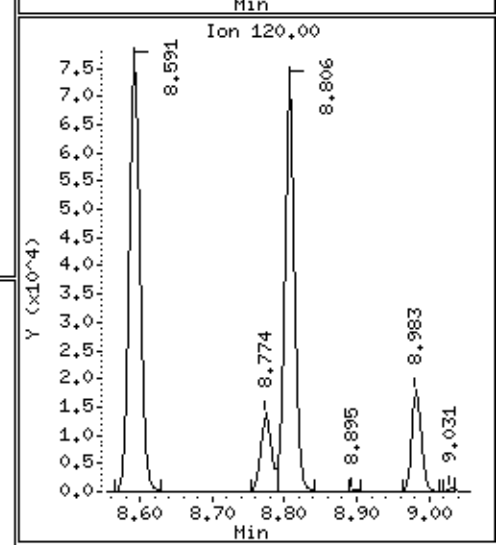












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a02lcss.d

Date : 19-JAN-2017 15:39

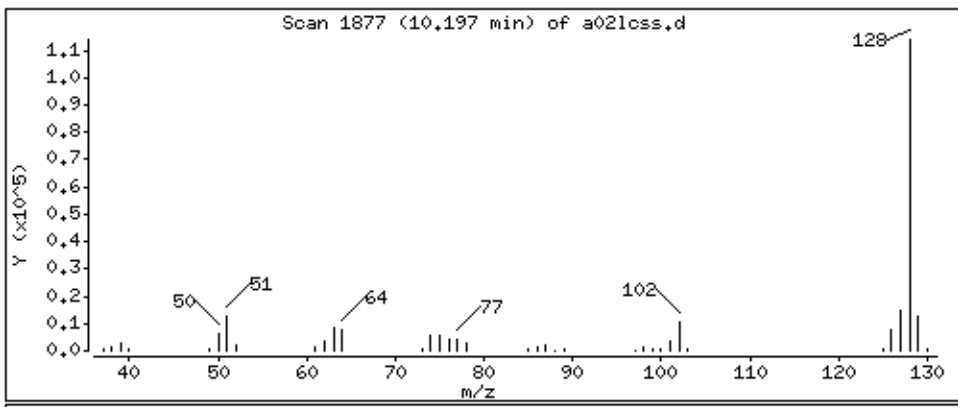
Client ID: 1711349,139467:5 Instrument: 50mv5a.i

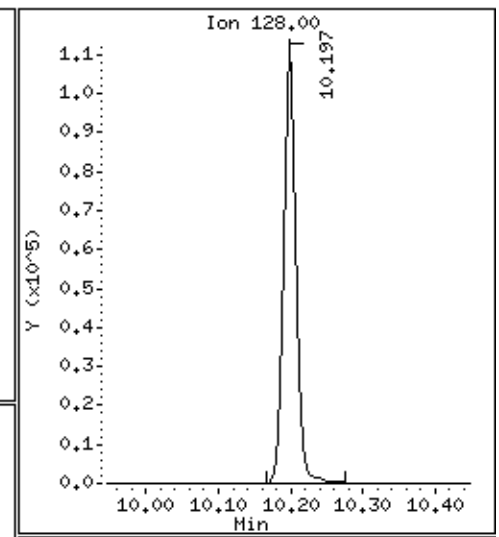
Sample Info: 1711349,139467:5

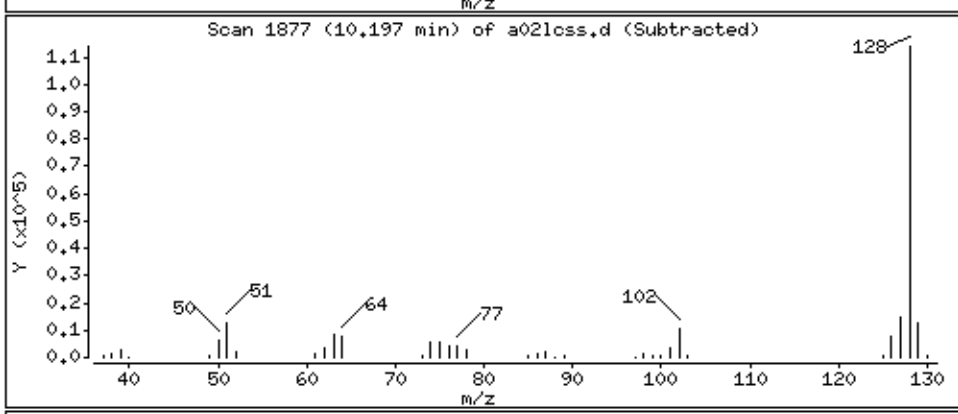
Operator: TMW

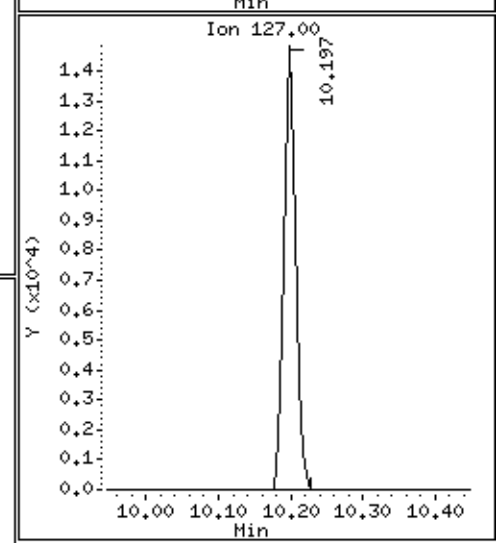
Column phase: DB-624 Column diameter: 0.18

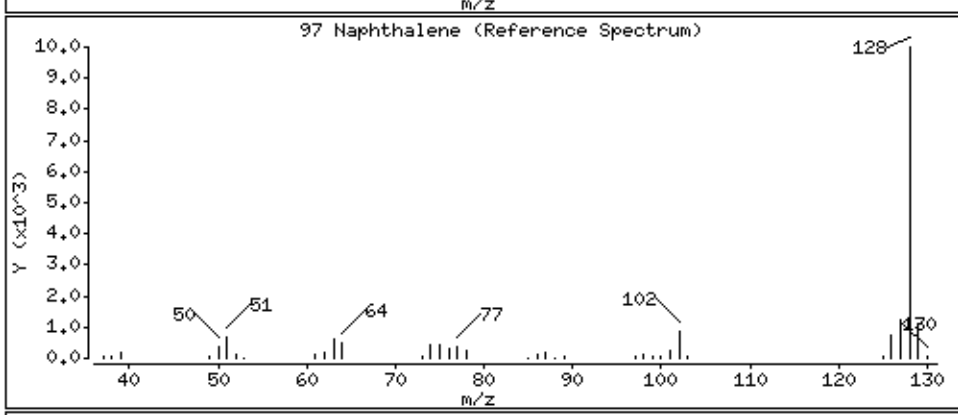
97 Naphthalene Concentration: 45.9 ppb

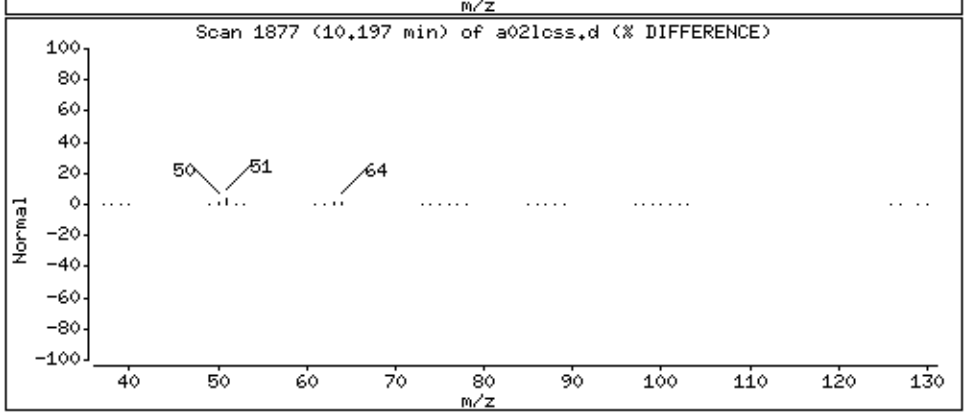












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b/a02lcss.d
Injection Date: 19-JAN-2017 15:39
Instrument: 50mv5a.i
Lab Sample ID: 1711349,139467:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/19/2017 17:31
Lab Sample ID: 1711350
Date Analyzed: 01/19/2017 17:31
Lab File ID: A011917.B\A05.D
Initial wt/vol: 5.67 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5A Percent Moisture: 19.9%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
71-43-2	Benzene	0.049	
108-90-7	Chlorobenzene	0.050	
67-66-3	Chloroform	0.051	
75-35-4	1,1-Dichloroethene	0.053	
156-59-2	cis-1,2-Dichloroethene	0.052	
156-60-5	trans-1,2-Dichloroethene	0.053	
78-87-5	1,2-Dichloropropane	0.056	
100-41-4	Ethylbenzene	0.050	
98-82-8	Isopropylbenzene (Cumene)	0.049	
1634-04-4	Methyl-tert-butyl ether	0.051	
91-20-3	Naphthalene	0.045	
79-34-5	1,1,2,2-Tetrachloroethane	0.052	
127-18-4	Tetrachloroethene	0.050	
108-88-3	Toluene	0.053	
71-55-6	1,1,1-Trichloroethane	0.051	
79-01-6	Trichloroethene	0.051	
95-63-6	1,2,4-Trimethylbenzene	0.050	
75-01-4	Vinyl chloride	0.078	
1330-20-7	Xylene (Total)	0.15	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d
Report Date: 20-Jan-2017 13:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d
Lab Smp Id: 1711350 Client Smp ID: GP-2 12-14'MS
Inj Date : 19-JAN-2017 17:31
Operator : TMW Inst ID: 50mv5a.i
Smp Info : 1711350,139467:5
Misc Info : 99014
Comment :
Method : \\192.168.50.6\chem\50mv5a.i\a011917.b\-a8260_a_c.m
Meth Date : 20-Jan-2017 10:57 50mv5a.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:14 Cal File: a08cal8.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	19.878	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.159	1.159	(0.260)	45882	70.8339	88.4	
	22 1,2-Dichloroethene (trans)	96	2.236	2.236	(0.502)	27697	47.9042	59.8	
	30 1,2-Dichloroethene (cis)	96	3.073	3.073	(0.689)	30523	47.5215	59.3(Q)	
	11 1,1-Dichloroethene	96	1.760	1.760	(0.395)	25429	47.8253	59.7	
	21 Methyl-tert-butyl ether	73	2.220	2.220	(0.498)	75256	46.4856	58.0	
	35 Chloroform	83	3.444	3.439	(0.772)	52451	45.9053	57.3	
	36 1,1,1-Trichloroethane	97	3.633	3.633	(0.815)	44514	46.6114	58.2	
$	37 Dibromofluoromethane (S)	113	3.633	3.627	(0.815)	30492	48.4514	60.5	
	42 Benzene	78	4.077	4.077	(0.914)	117787	44.4868	55.5	
*	46 Fluorobenzene (IS)	96	4.459	4.454	(1.000)	125629	50.0000		
	47 Trichloroethene	95	4.893	4.888	(1.097)	30932	46.2133	57.7	
	49 1,2-Dichloropropane	63	5.191	5.186	(1.164)	37173	50.7524	63.3	
$	57 Toluene-d8 (S)	98	6.263	6.263	(0.831)	125310	54.1149	67.5	
	58 Toluene	91	6.337	6.331	(0.841)	133009	48.1013	60.0	
	62 Tetrachloroethene	166	6.828	6.828	(0.906)	33549	45.3001	56.5	
*	67 Chlorobenzene-D5 (IS)	117	7.534	7.529	(1.000)	95431	50.0000		
	68 Chlorobenzene	112	7.555	7.550	(1.003)	84641	45.0680	56.2	
	70 Ethylbenzene	106	7.634	7.628	(1.013)	48035	45.7655	57.1	
	71 m&p-Xylene	106	7.728	7.728	(1.026)	118584	95.6358	119	
	72 o-Xylene	106	7.984	7.984	(1.060)	56931	43.8988	54.8	
	75 Isopropylbenzene	105	8.230	8.225	(1.092)	158083	44.5364	55.6	

Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d
Report Date: 20-Jan-2017 13:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene (S)	95	8.340	8.340	(1.107)	51103	52.6096	65.7	
78 1,1,2,2-Tetrachloroethane	83	8.429	8.423	(0.935)	38626	46.9588	58.6	
86 1,2,4-Trimethylbenzene	105	8.805	8.805	(0.977)	144850	45.0715	56.2	
* 90 1,4-Dichlorobenzene-d4 (IS)	152	9.015	9.015	(1.000)	58477	50.0000		
97 Naphthalene	128	10.197	10.197	(1.131)	125154	41.3193	51.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

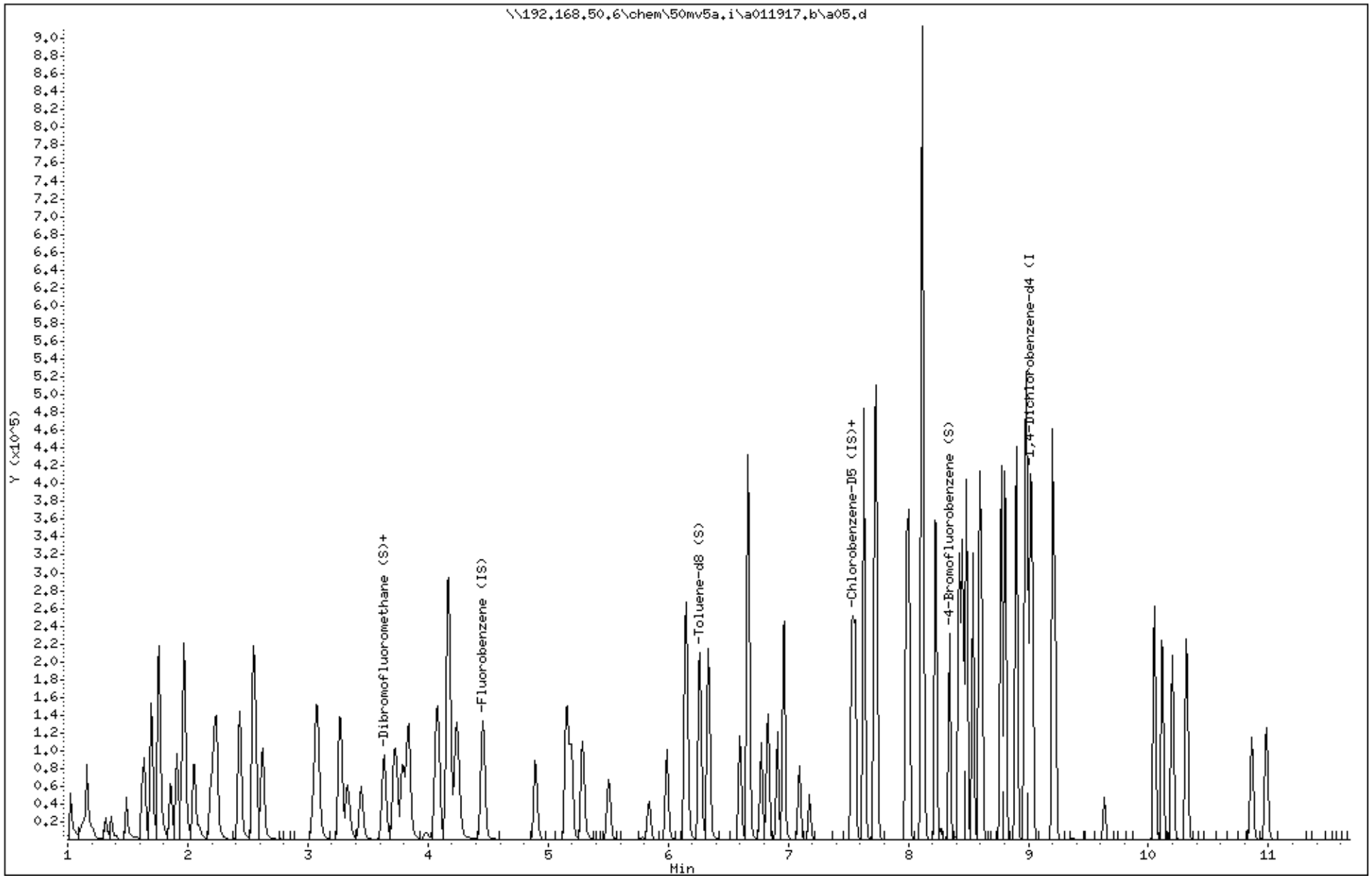
Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d
Date : 19-JAN-2017 17:31
Client ID: GP-2 12-14'MS
Sample Info: 1711350,139467:5

Instrument: 50mv5a.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

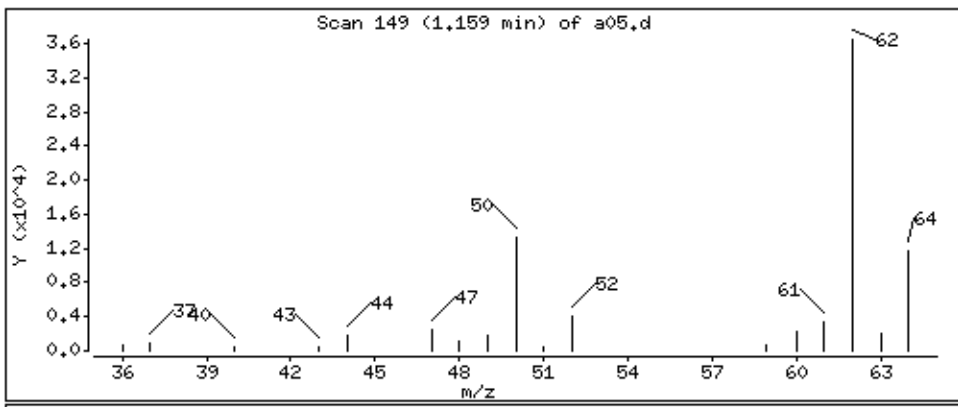
Operator: TMW

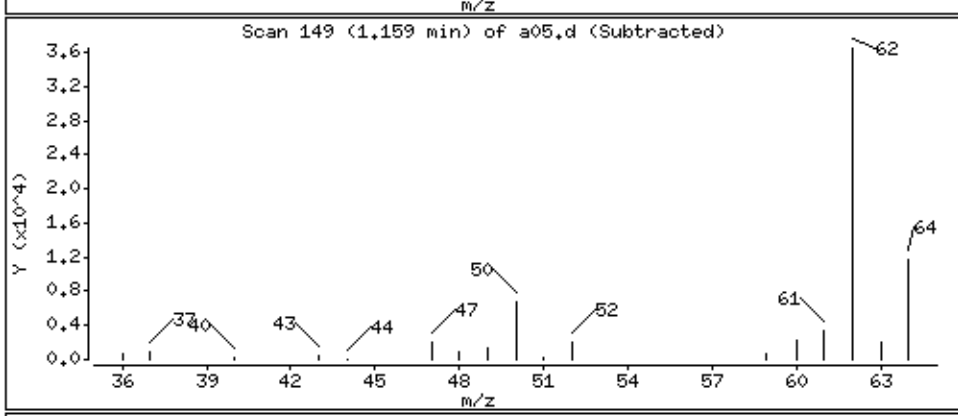
Column phase: DB-624

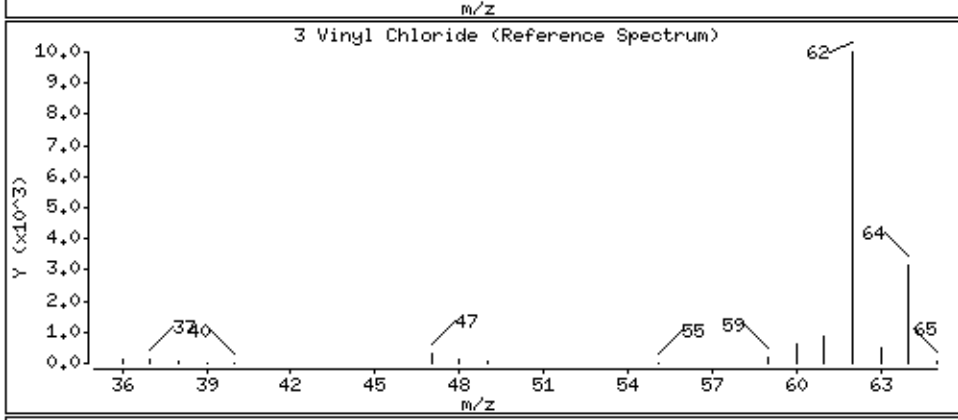
Column diameter: 0.18

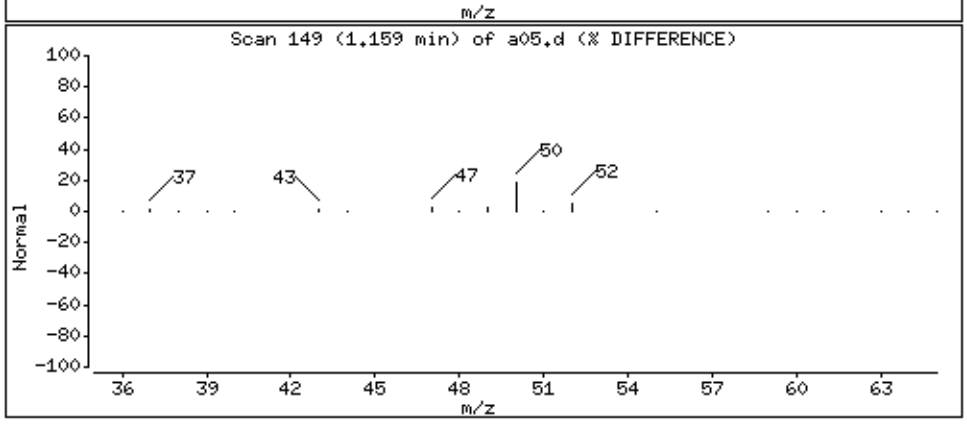
3 Vinyl Chloride

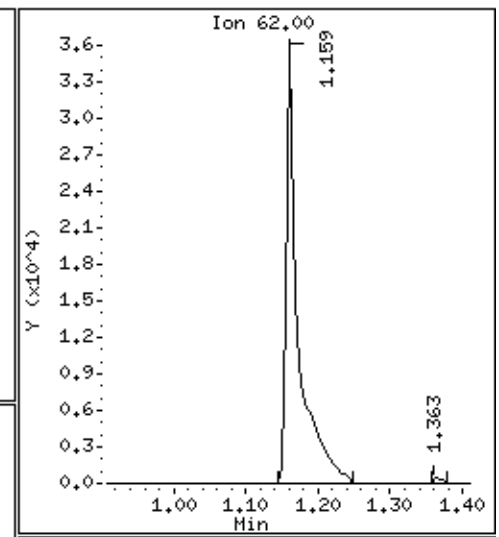
Concentration: 88.4 ppb

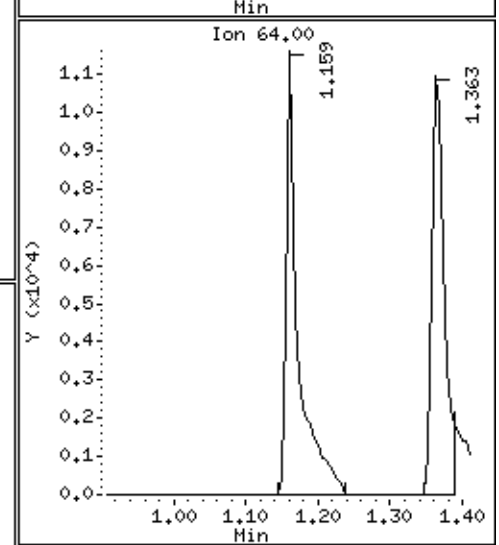












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

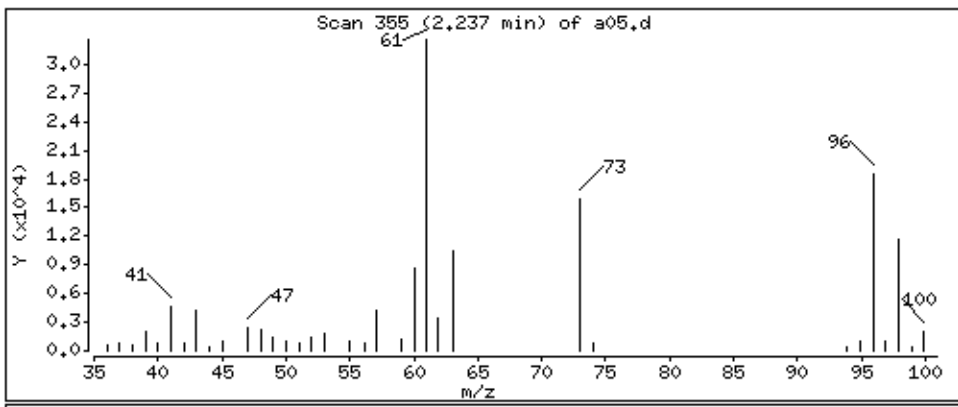
Operator: TMW

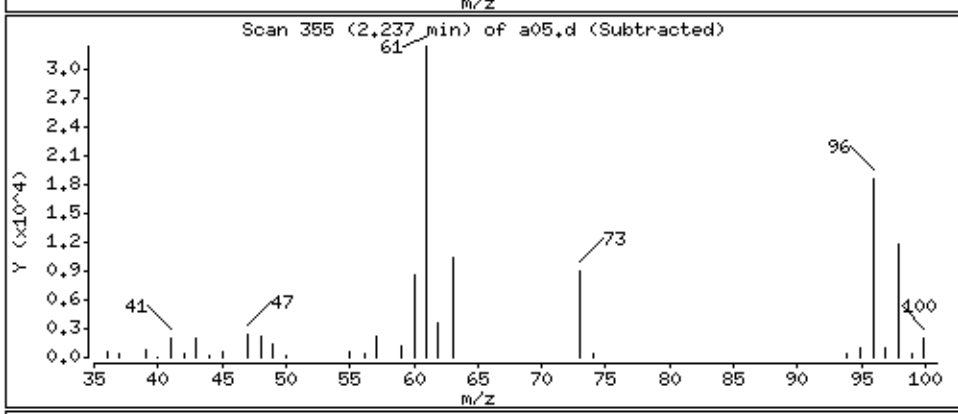
Column phase: DB-624

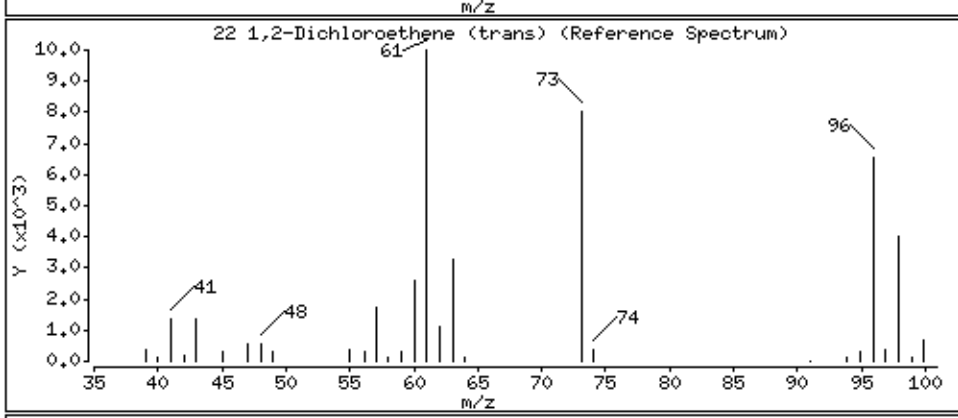
Column diameter: 0.18

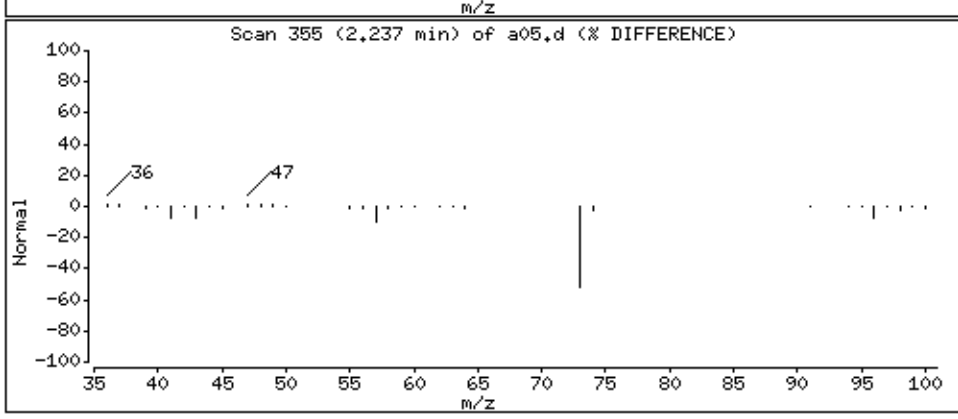
22 1,2-Dichloroethene (trans)

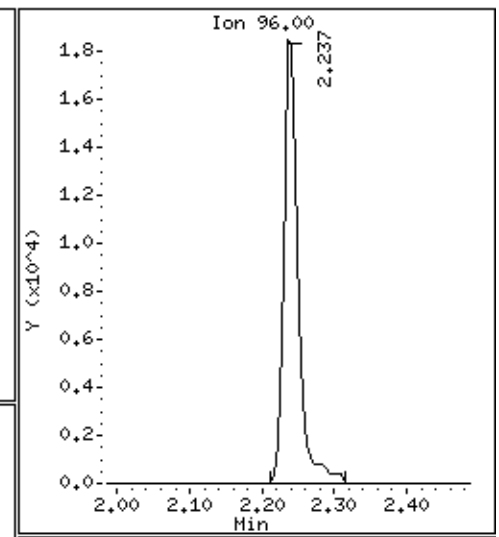
Concentration: 59.8 ppb

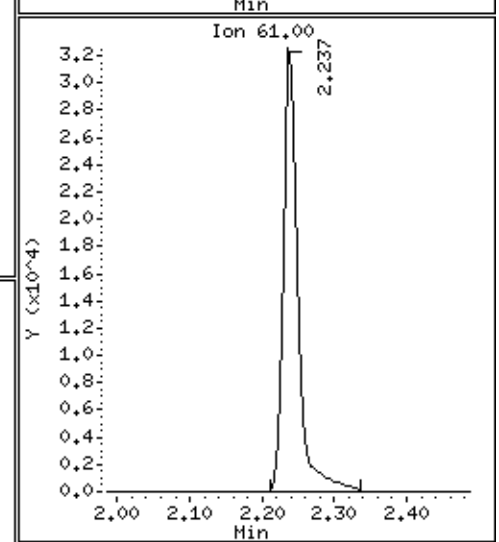


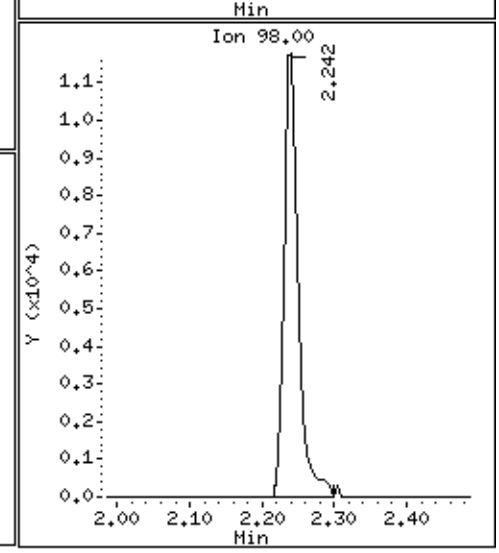












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

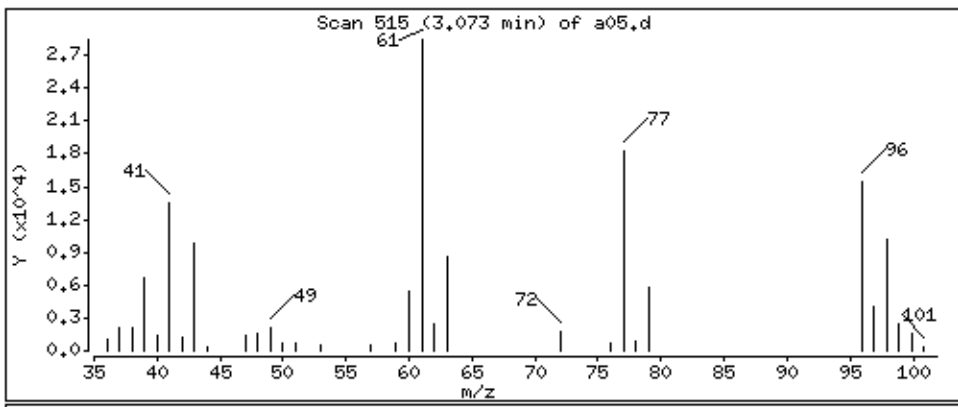
Operator: TMW

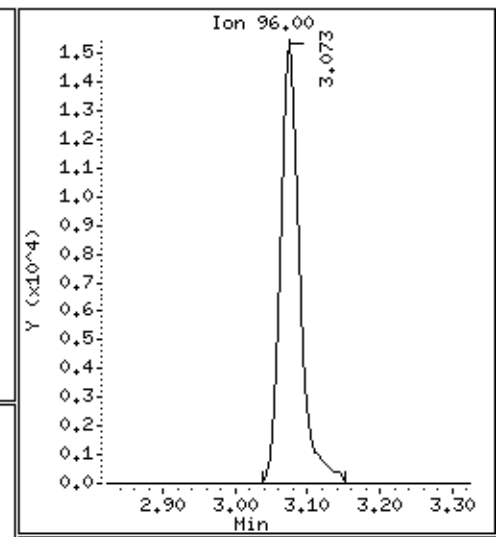
Column phase: DB-624

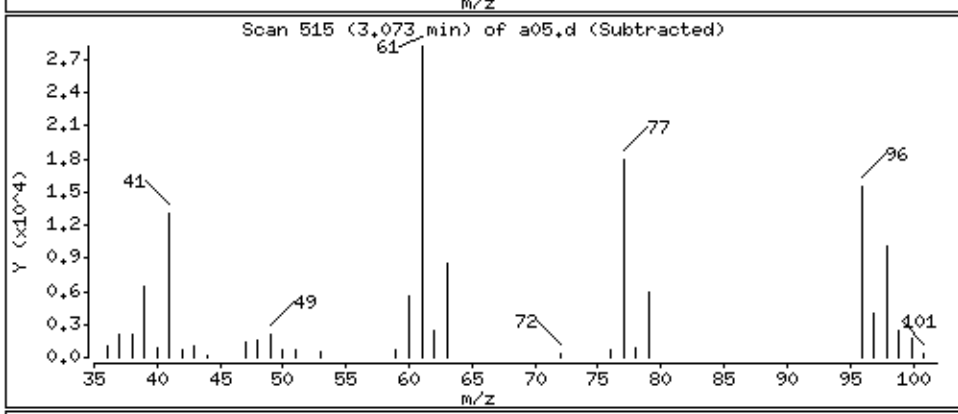
Column diameter: 0.18

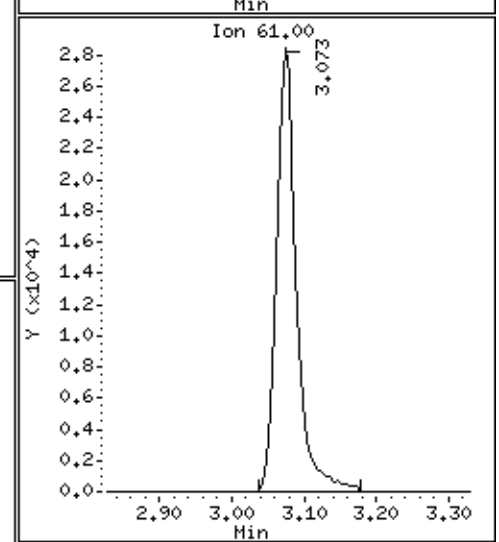
30 1,2-Dichloroethene (cis)

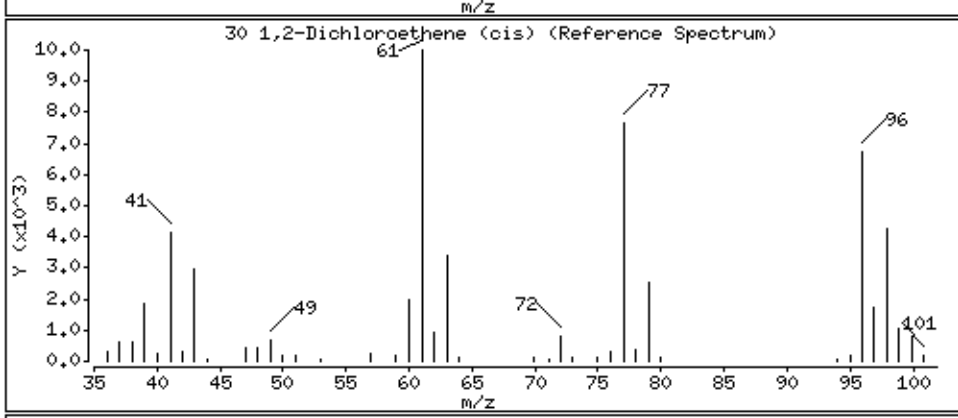
Concentration: 59.3 ppb

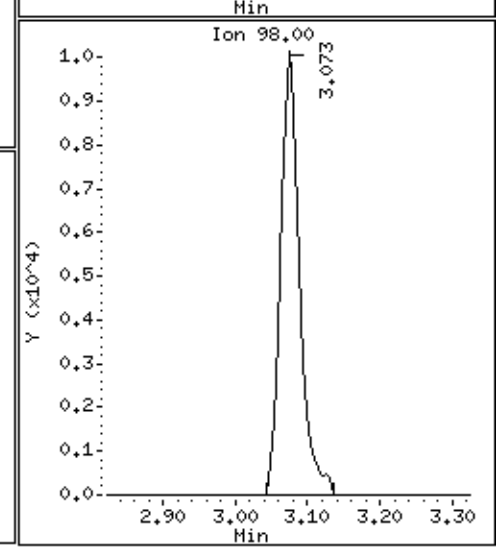


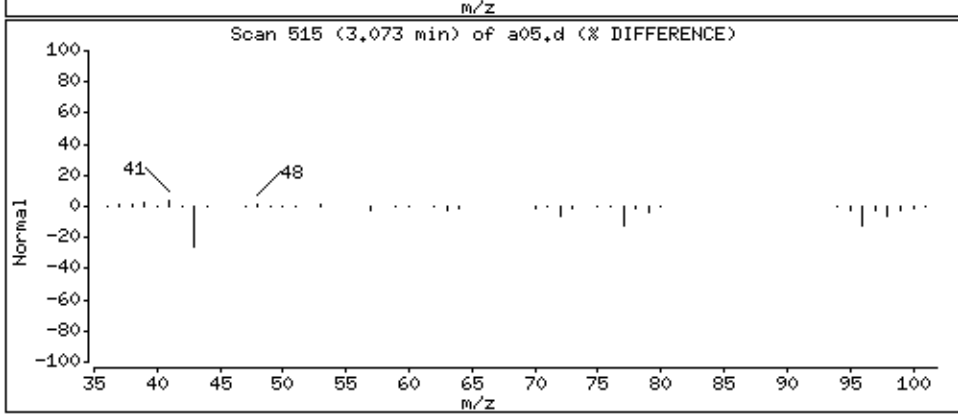












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

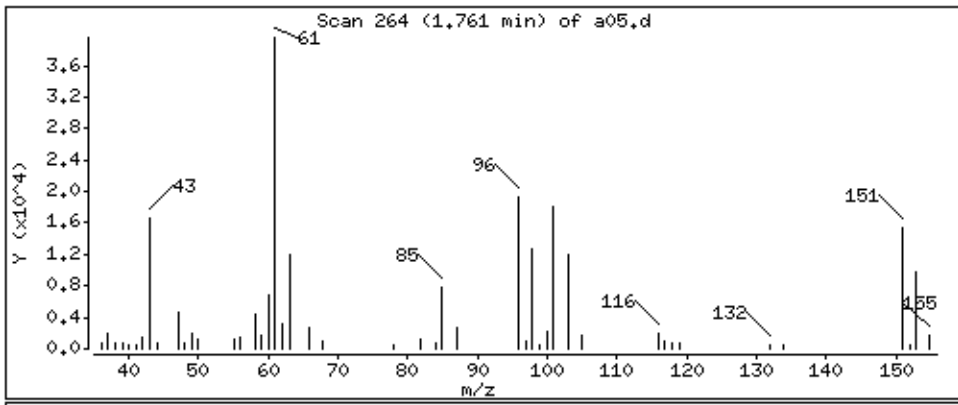
Operator: TMW

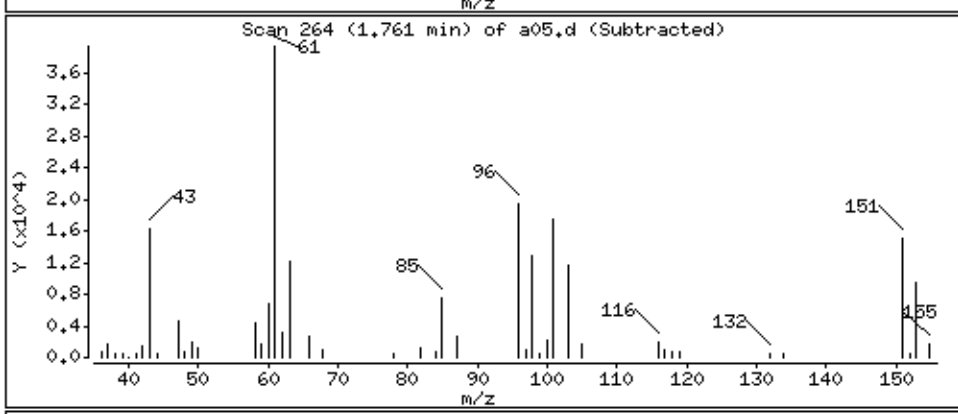
Column phase: DB-624

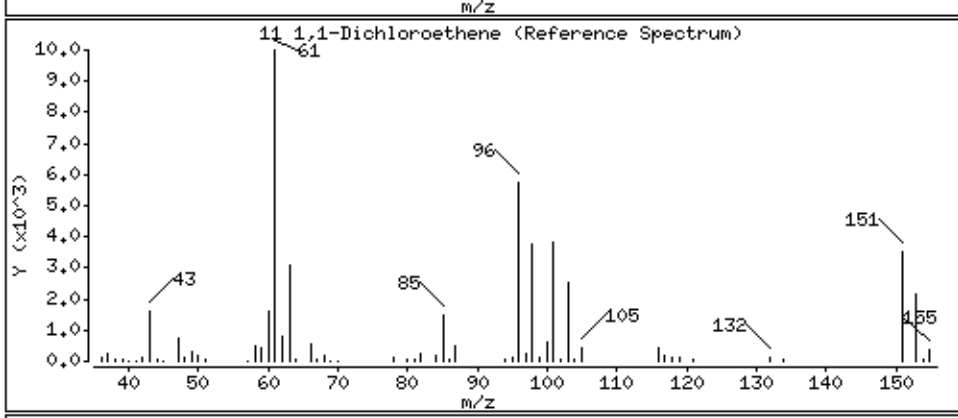
Column diameter: 0.18

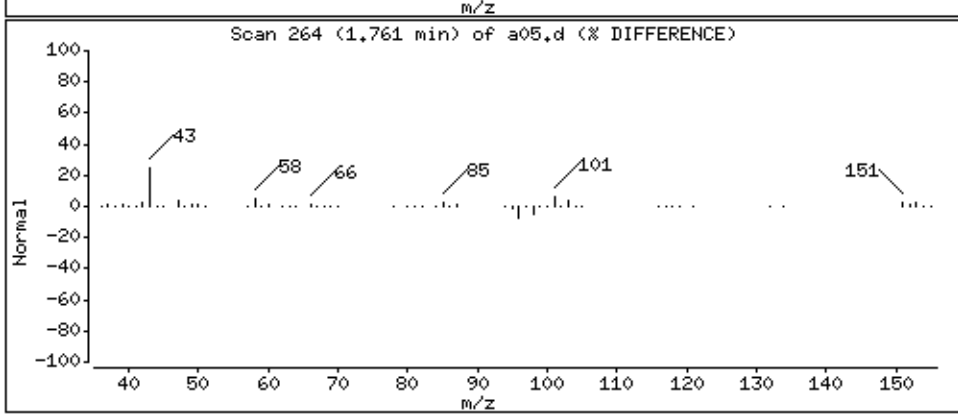
11 1,1-Dichloroethene

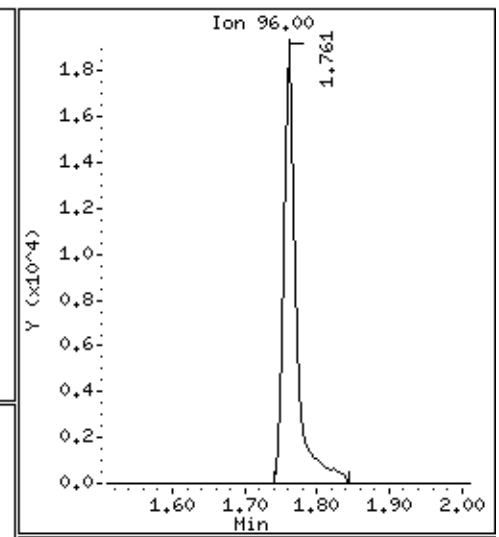
Concentration: 59.7 ppb

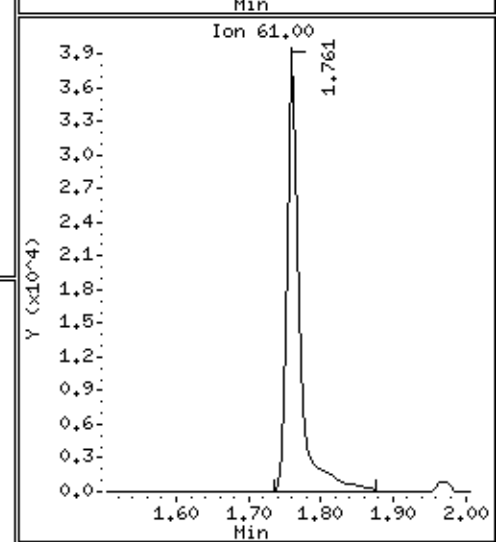


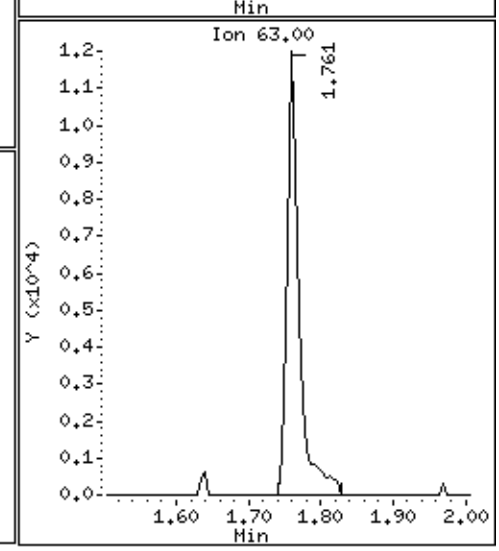












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

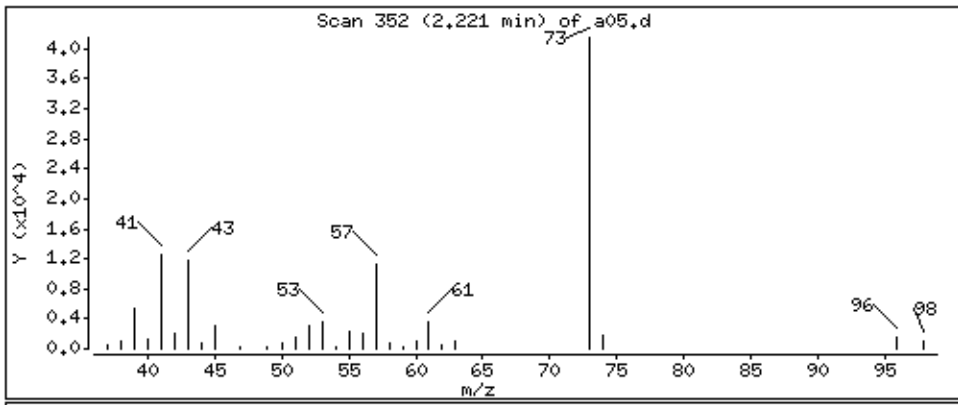
Operator: TMW

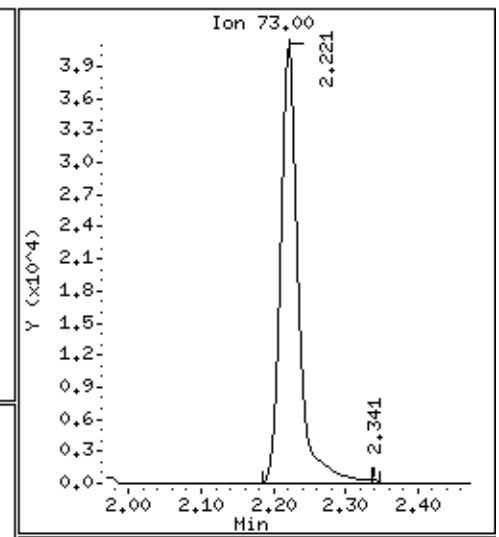
Column phase: DB-624

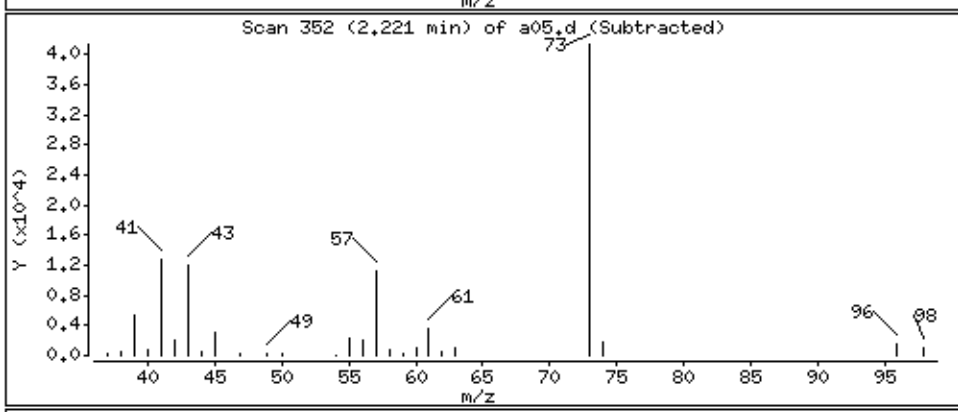
Column diameter: 0.18

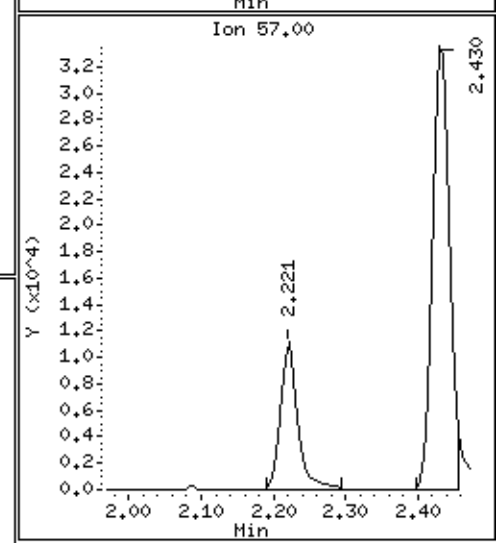
21 Methyl-tert-butyl ether

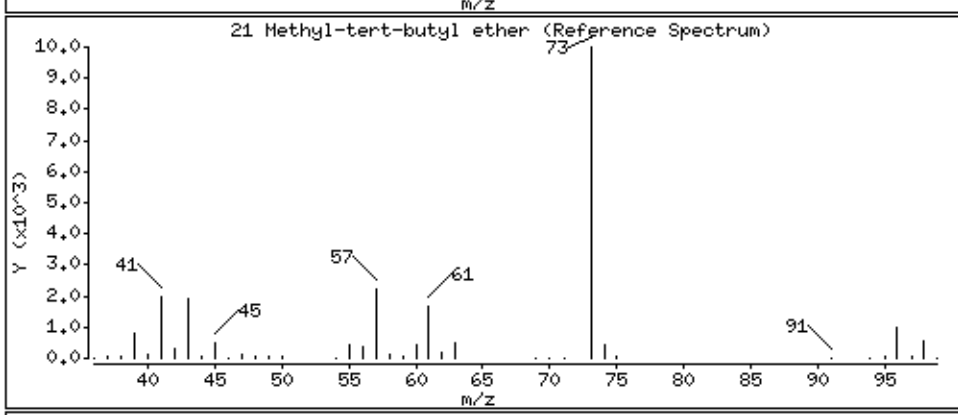
Concentration: 58.0 ppb

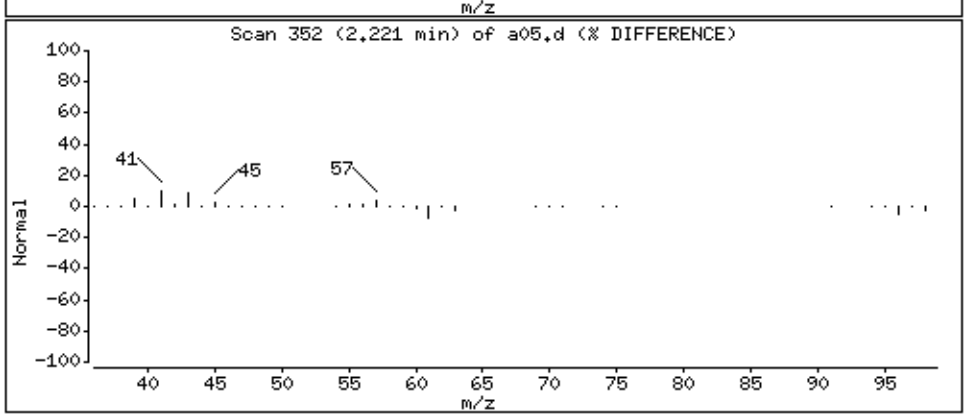












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

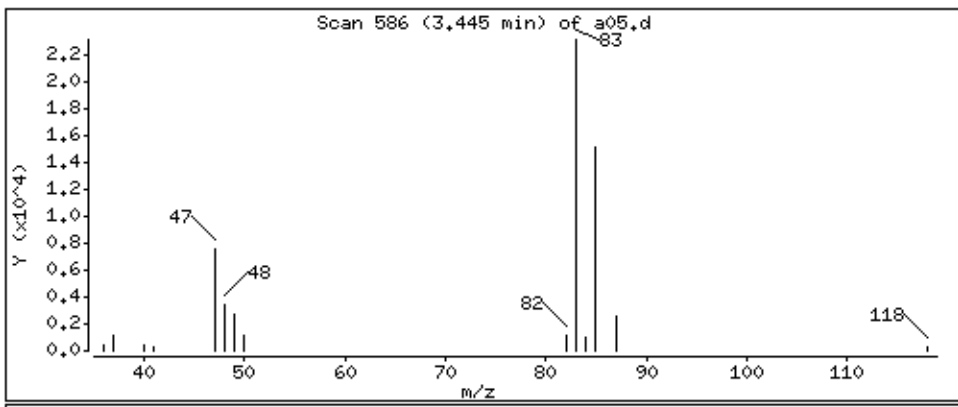
Operator: TMW

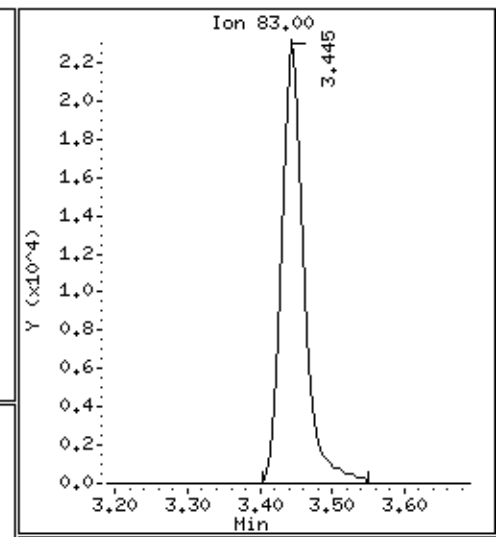
Column phase: DB-624

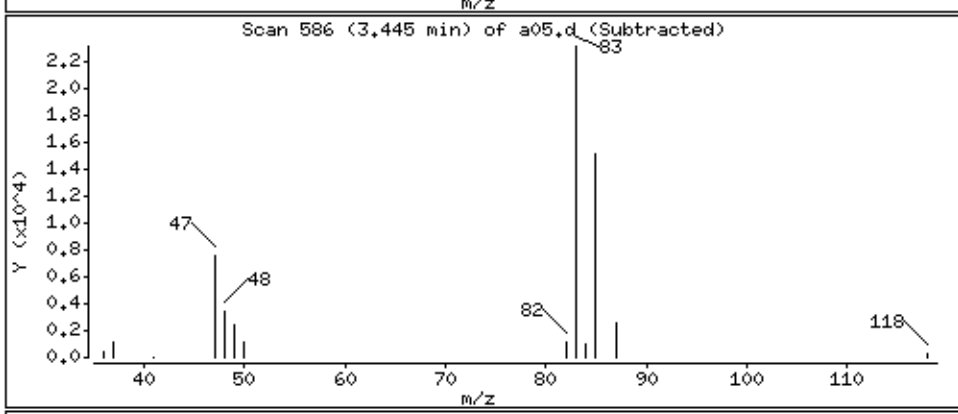
Column diameter: 0.18

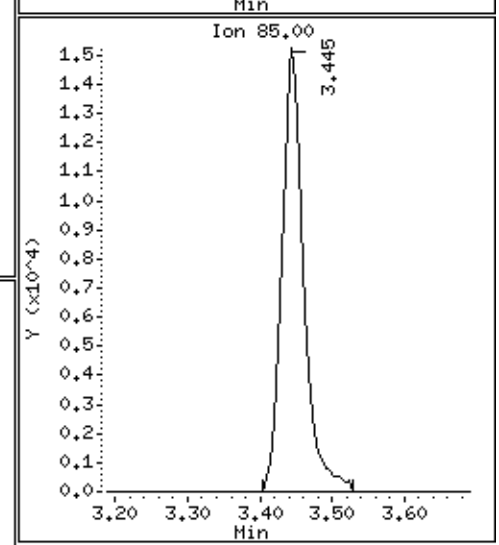
35 Chloroform

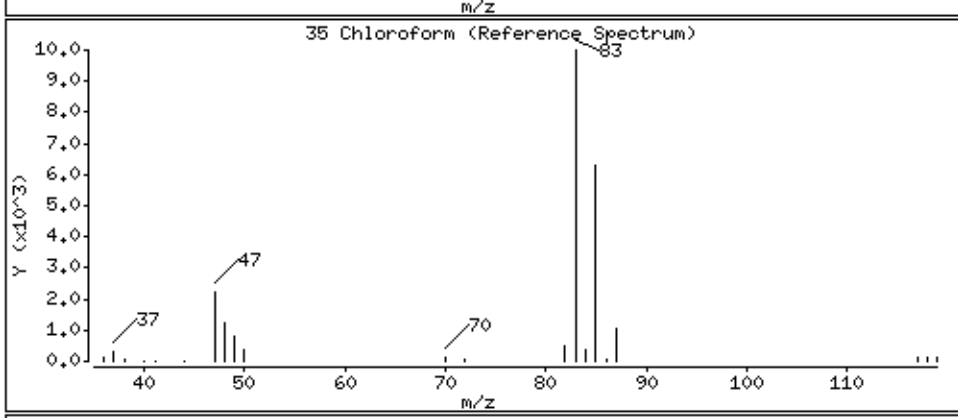
Concentration: 57.3 ppb

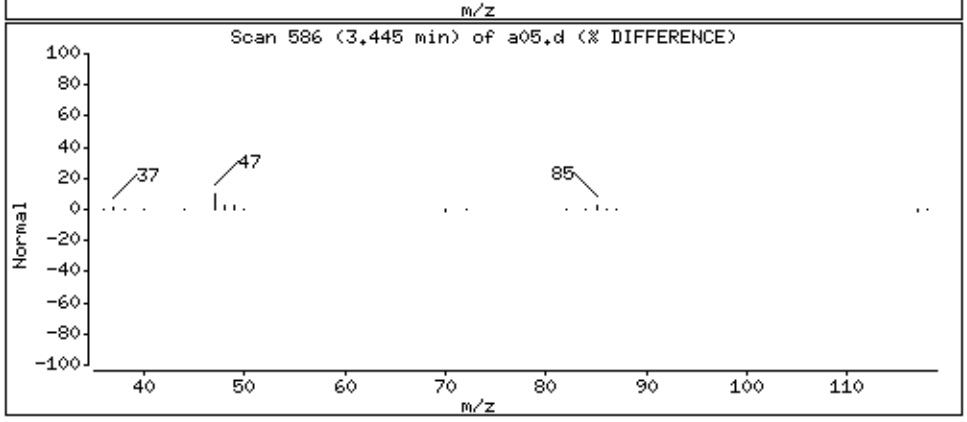












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

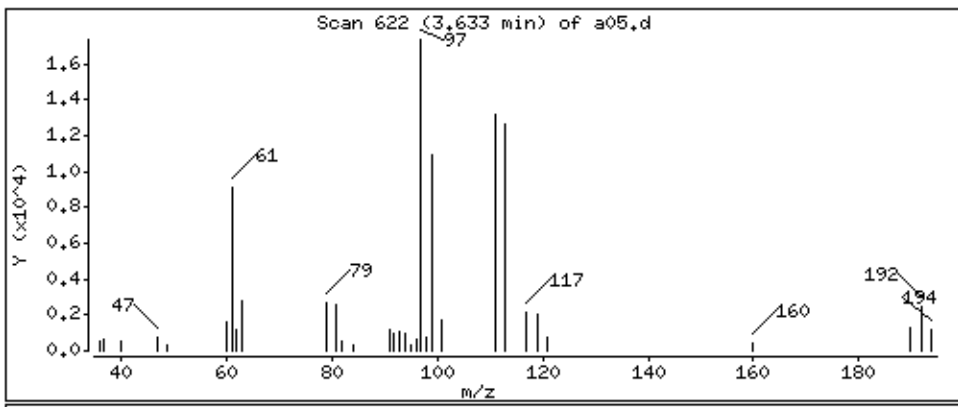
Operator: TMW

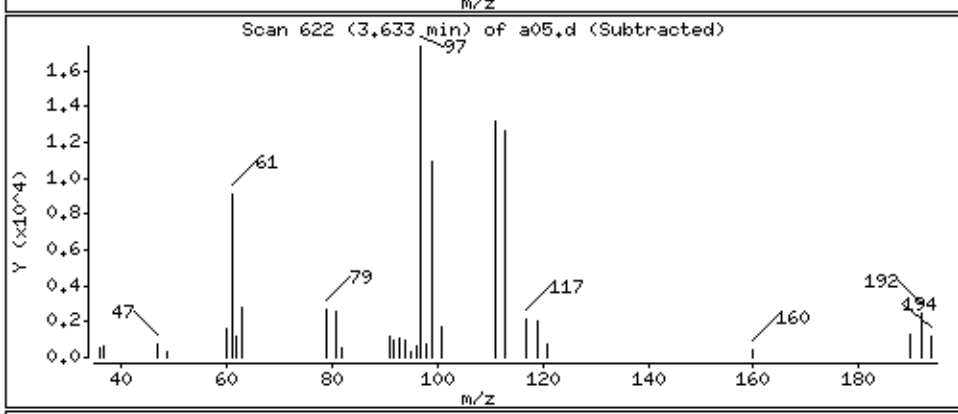
Column phase: DB-624

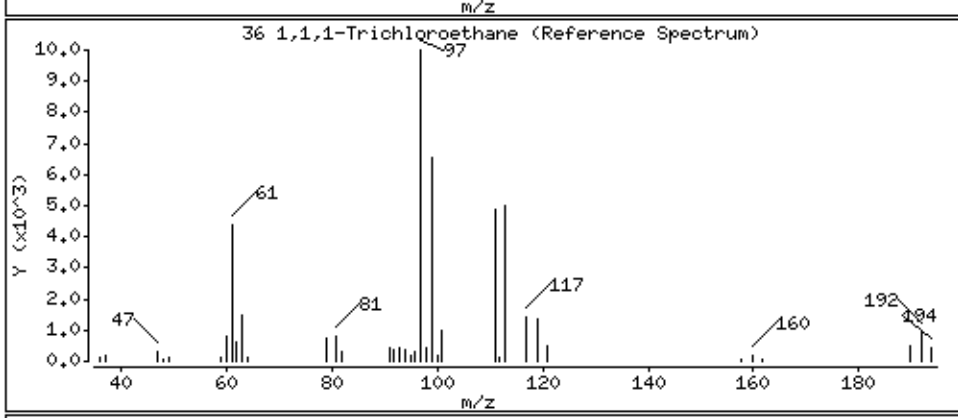
Column diameter: 0.18

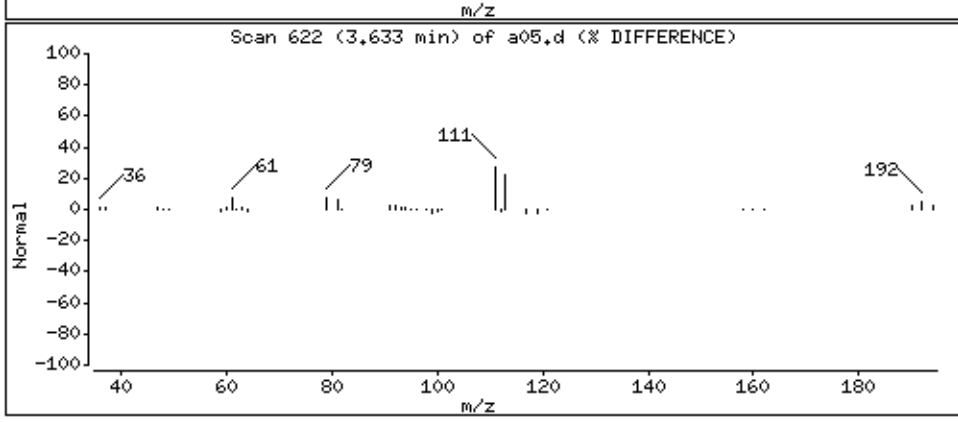
36 1,1,1-Trichloroethane

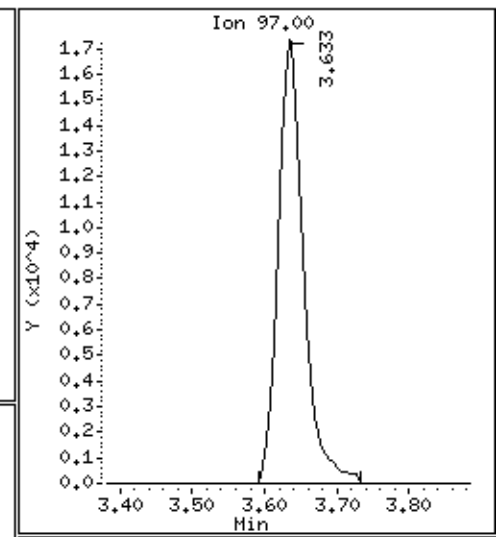
Concentration: 58.2 ppb

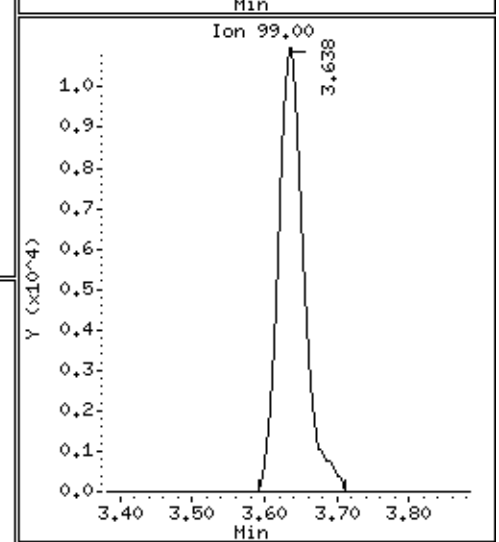


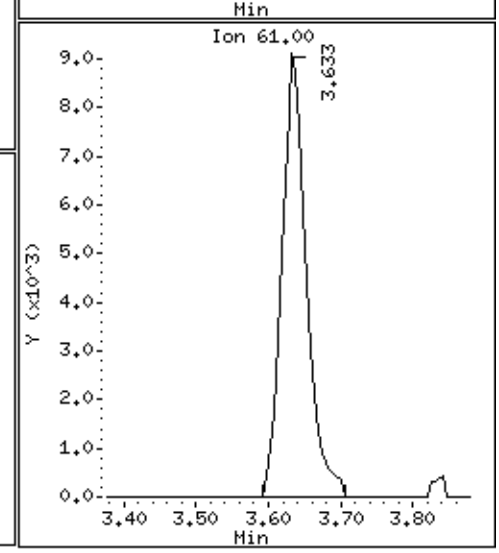












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

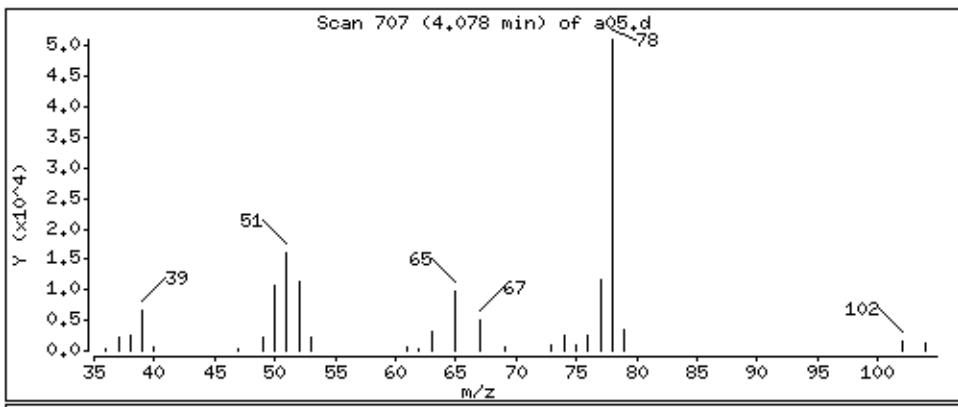
Operator: TMW

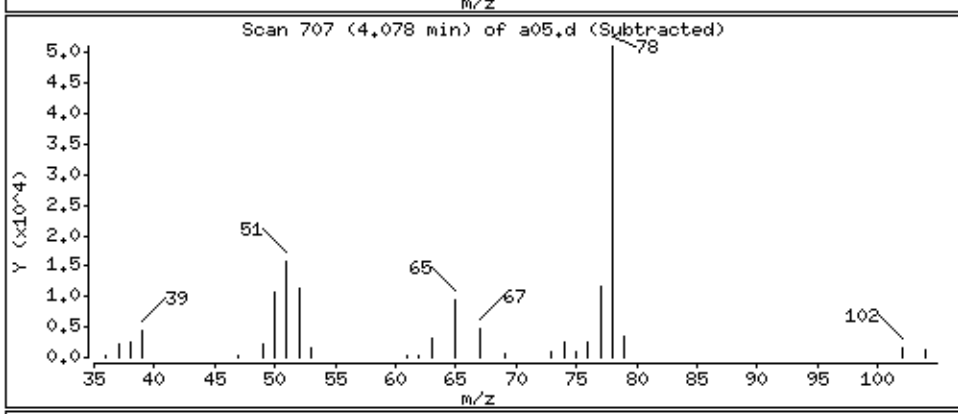
Column phase: DB-624

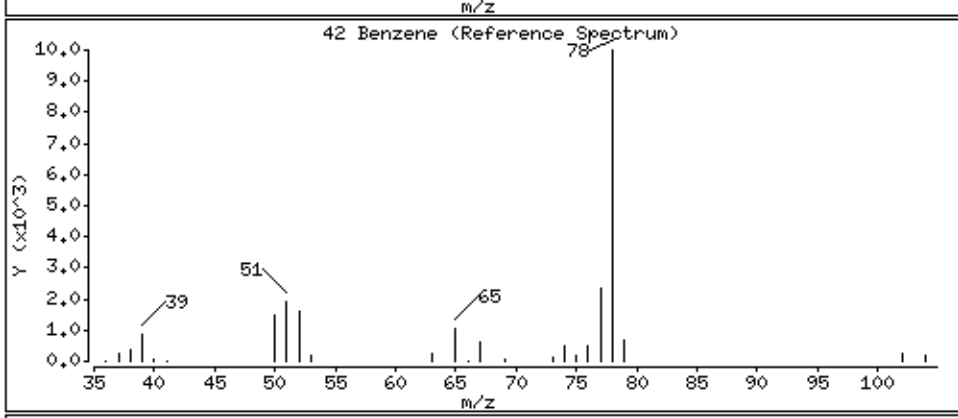
Column diameter: 0.18

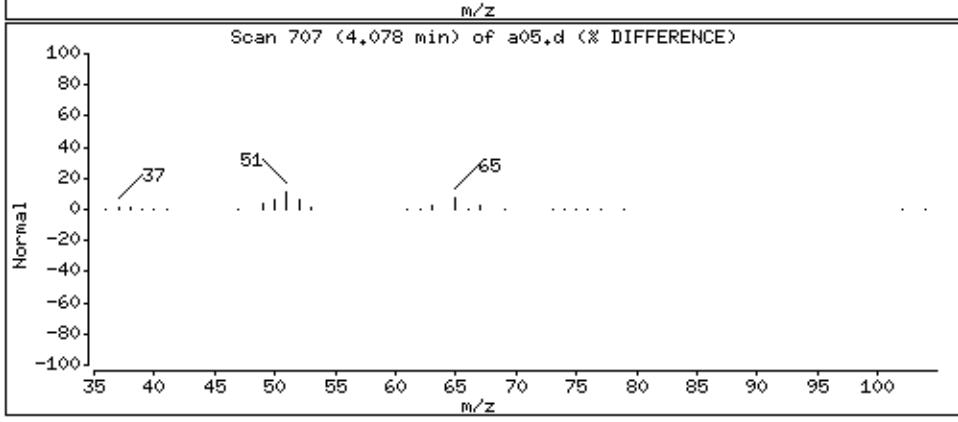
42 Benzene

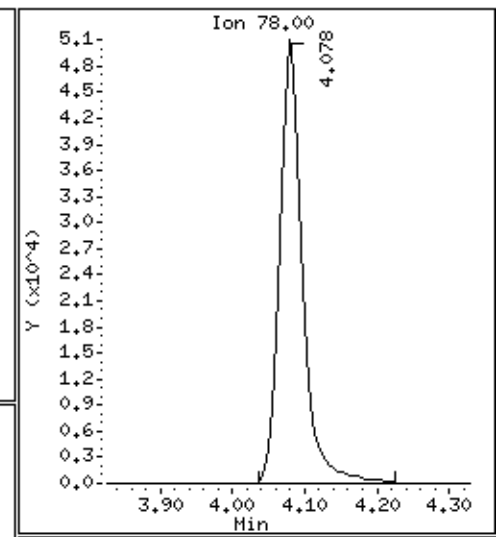
Concentration: 55.5 ppb

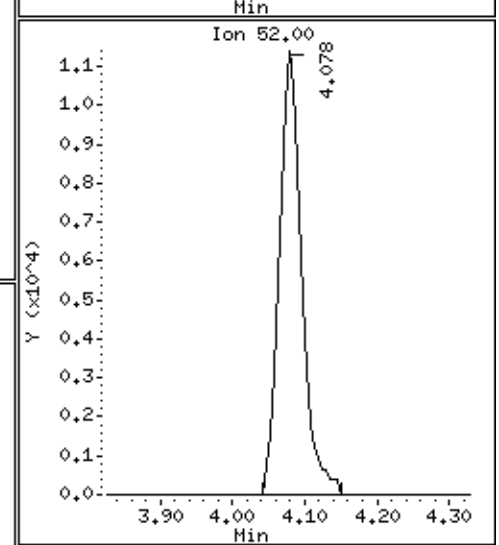


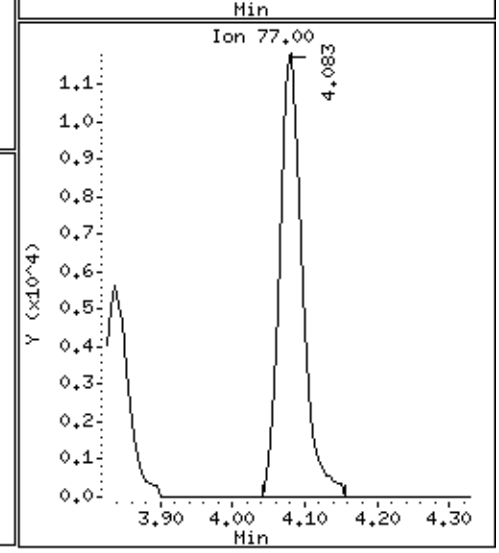












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

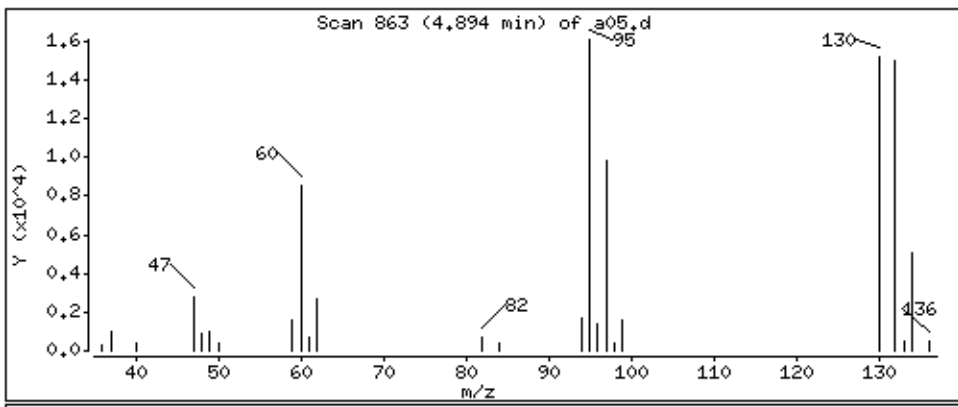
Operator: TMW

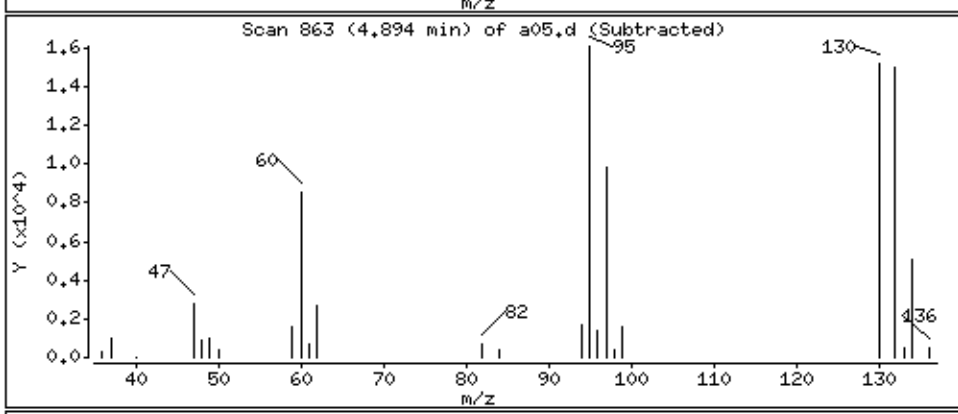
Column phase: DB-624

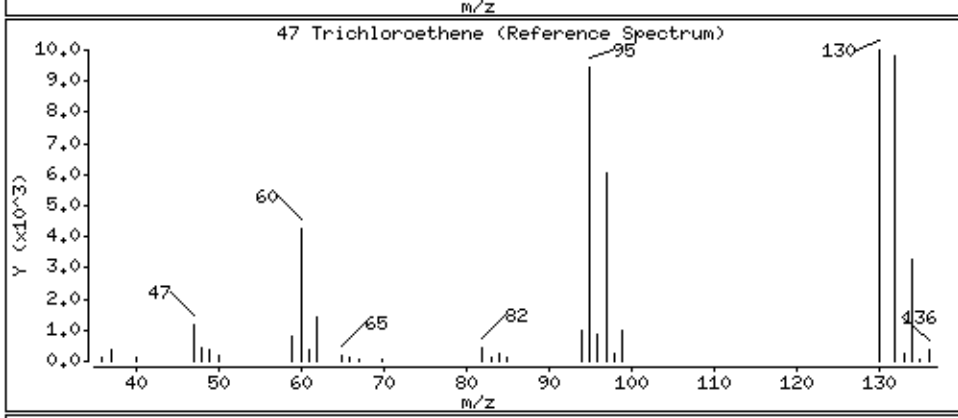
Column diameter: 0.18

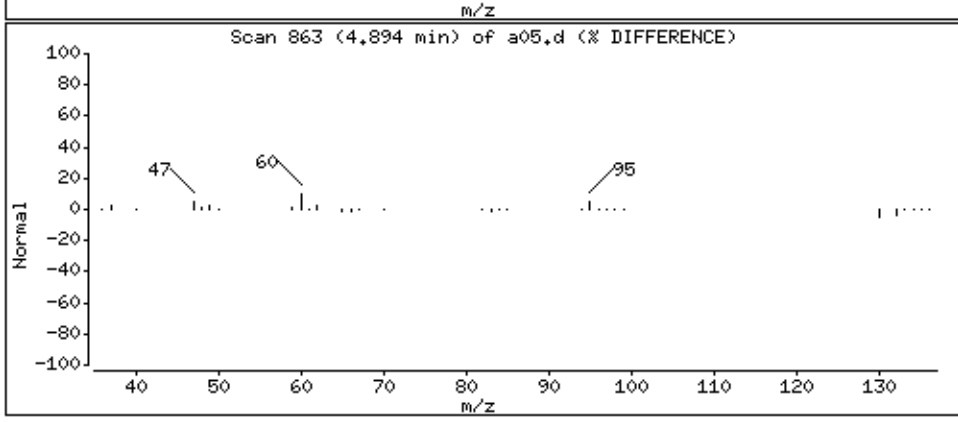
47 Trichloroethene

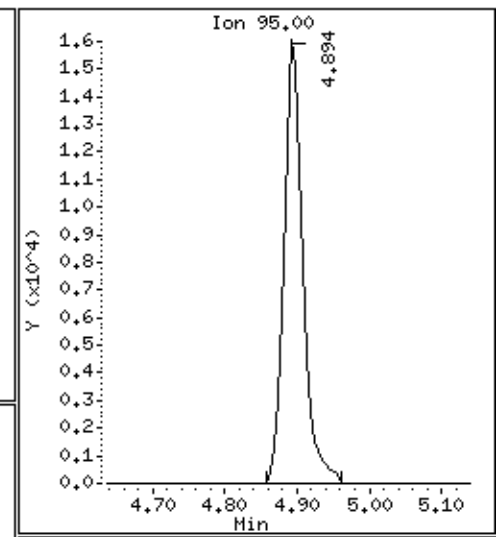
Concentration: 57.7 ppb

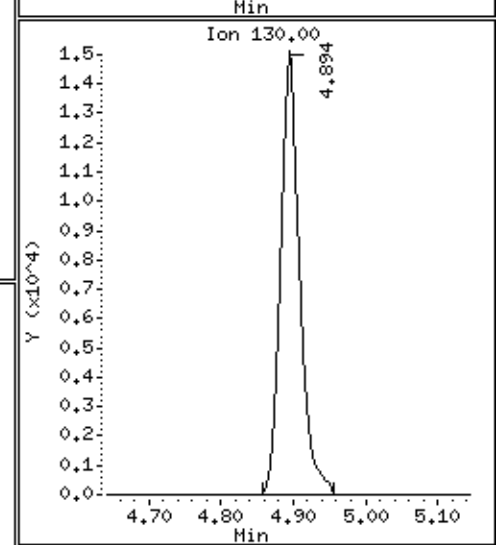


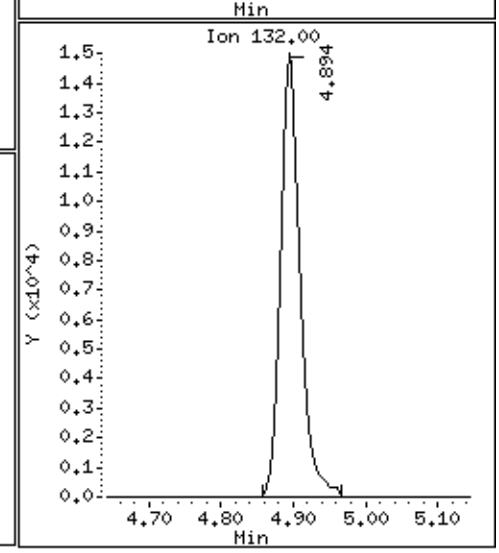












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

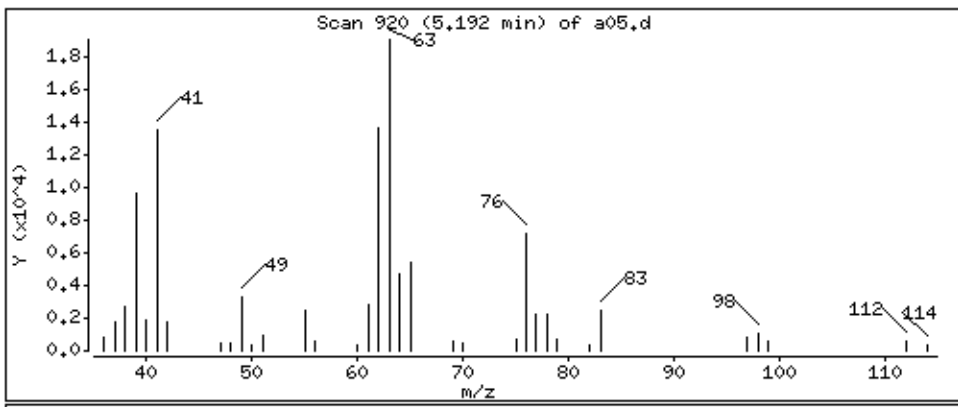
Operator: TMW

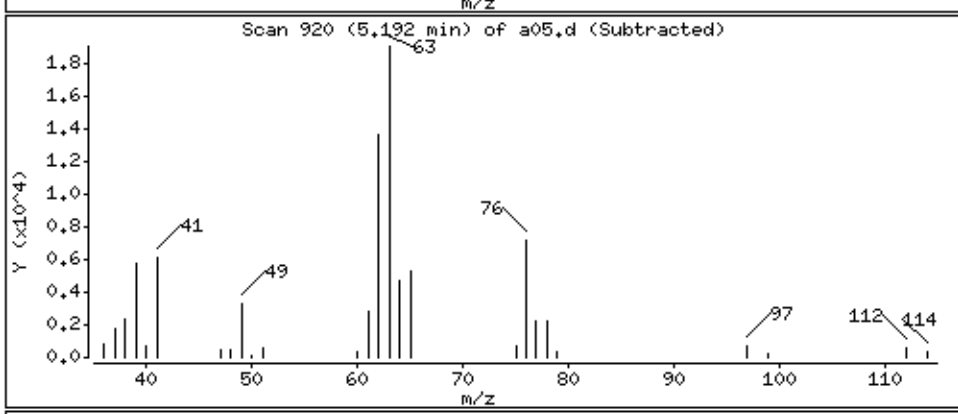
Column phase: DB-624

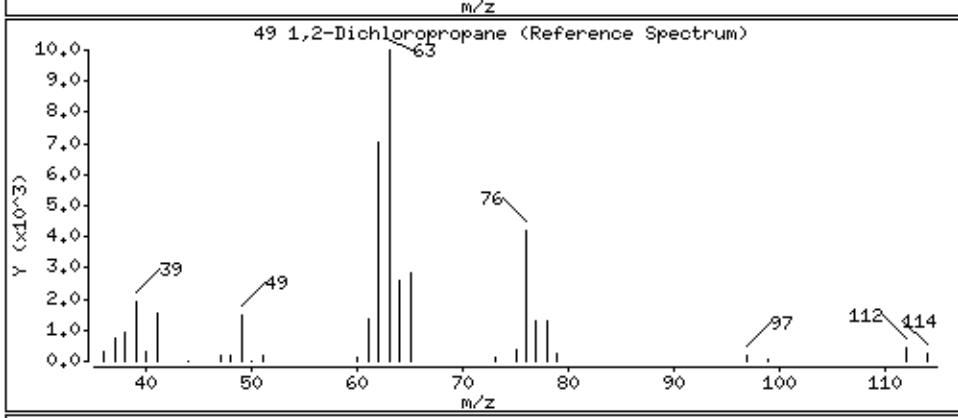
Column diameter: 0.18

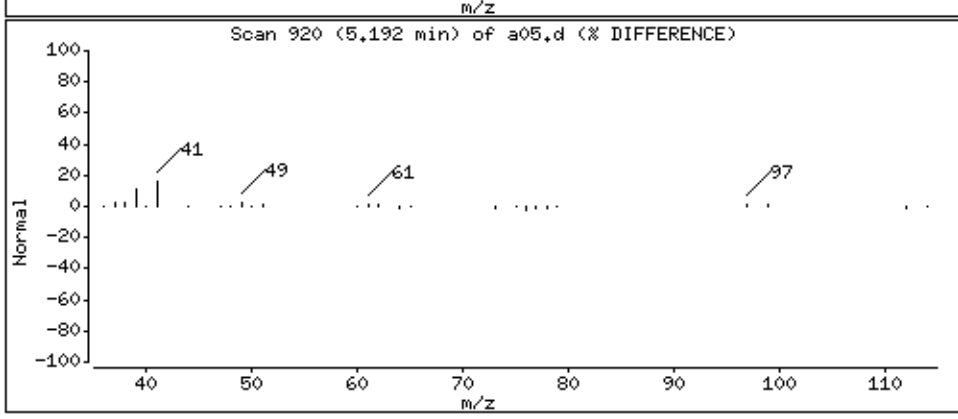
49 1,2-Dichloropropane

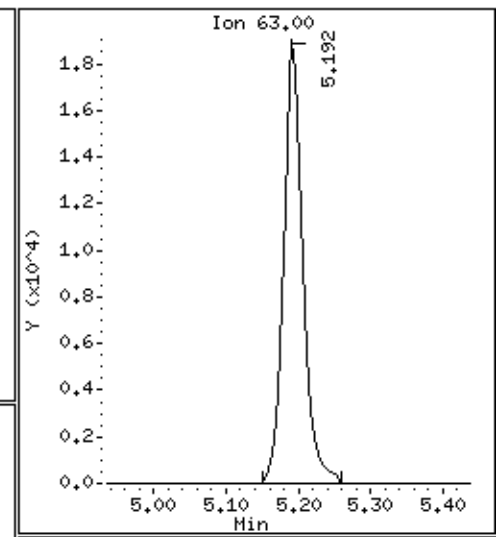
Concentration: 63.3 ppb

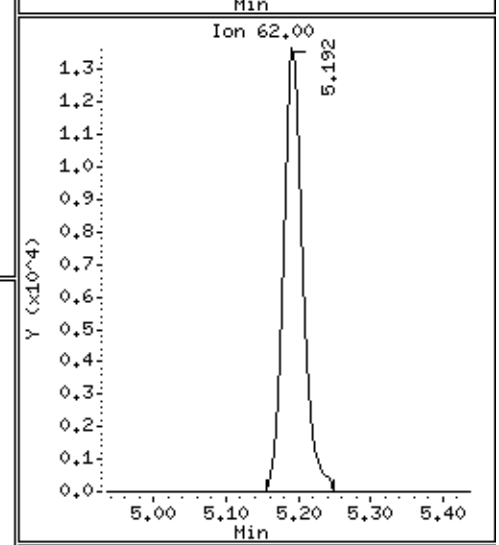


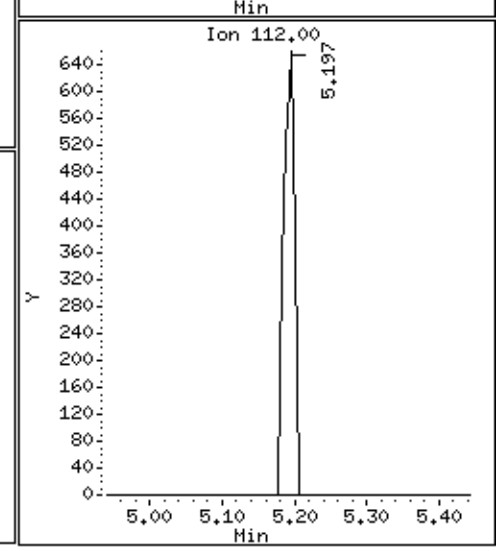












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

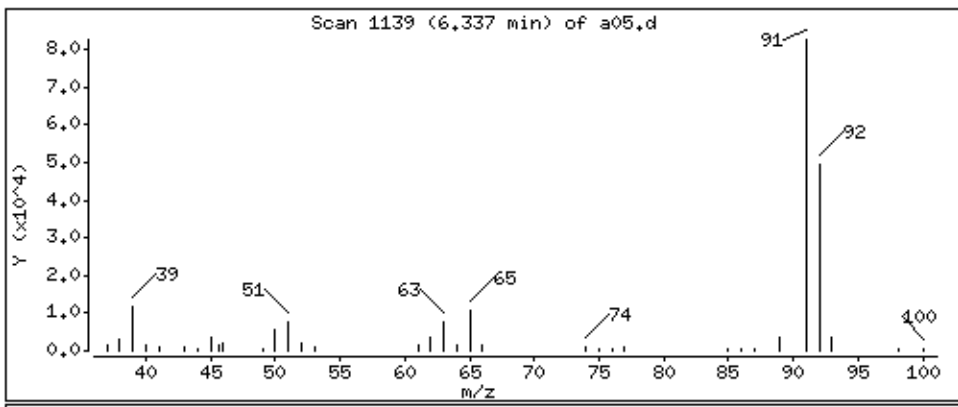
Operator: TMW

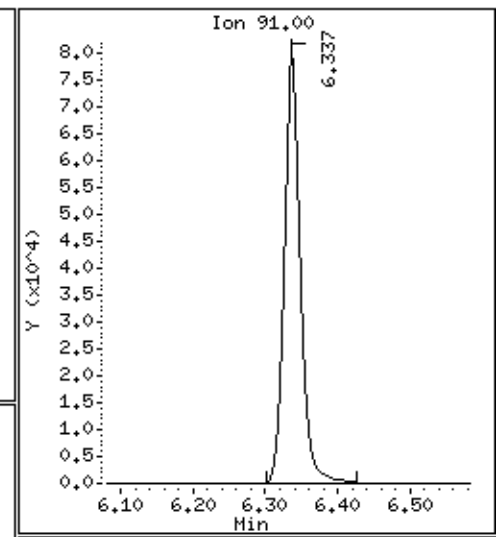
Column phase: DB-624

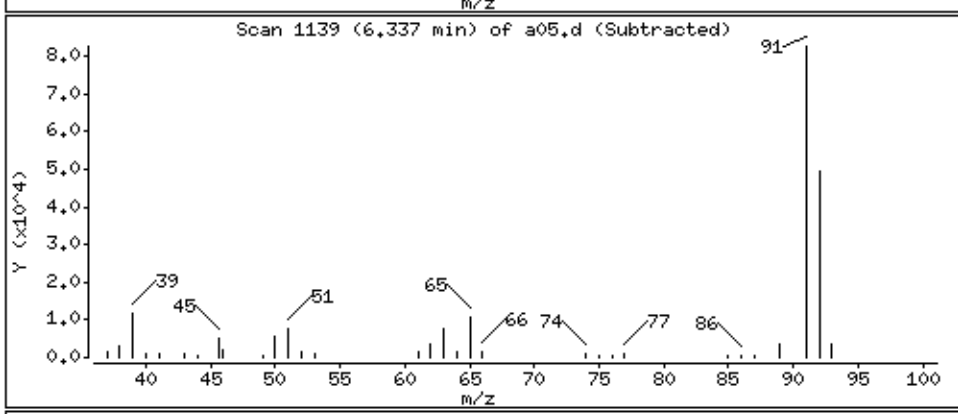
Column diameter: 0.18

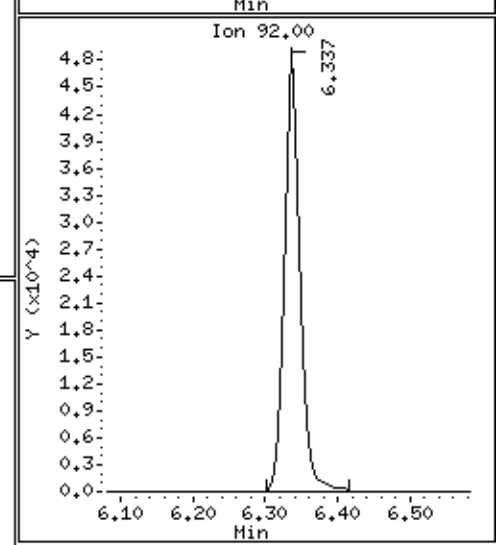
58 Toluene

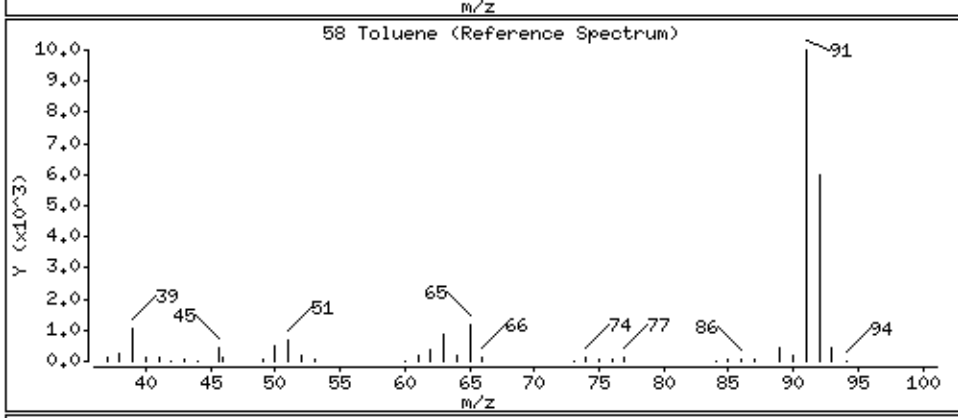
Concentration: 60.0 ppb

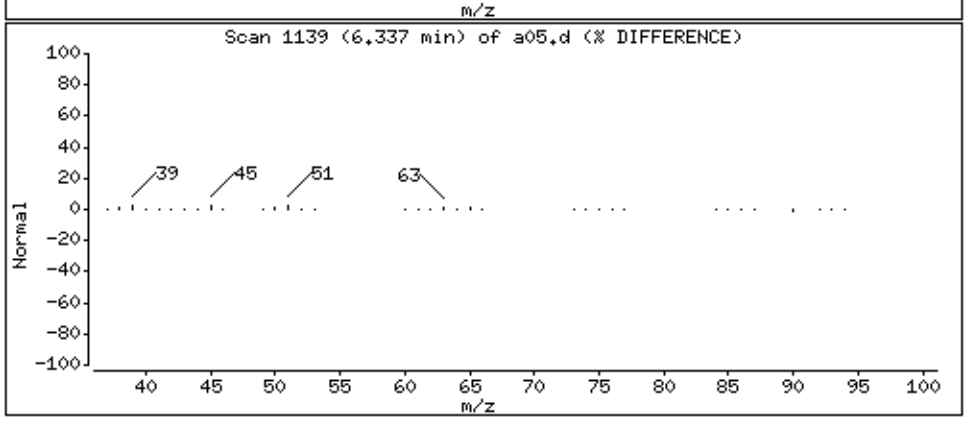












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

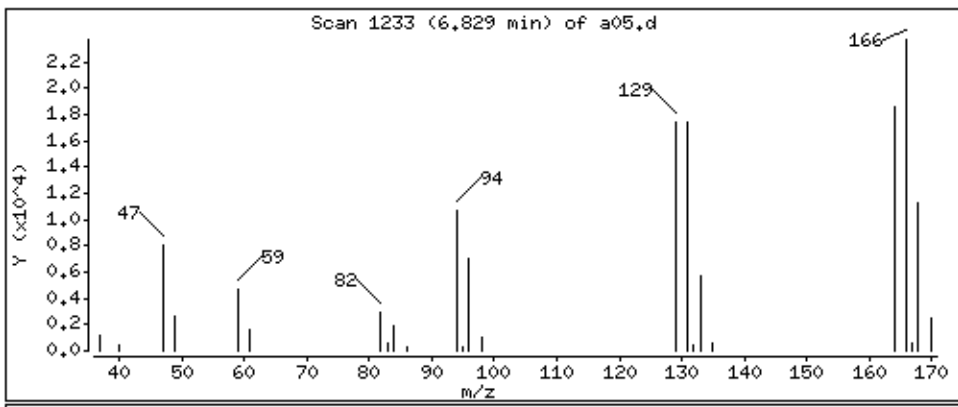
Operator: TMW

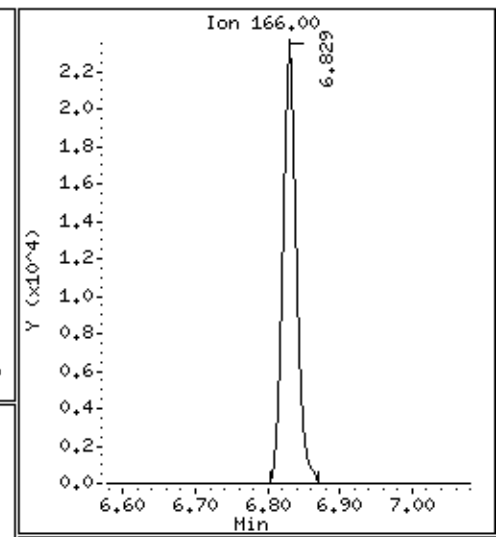
Column phase: DB-624

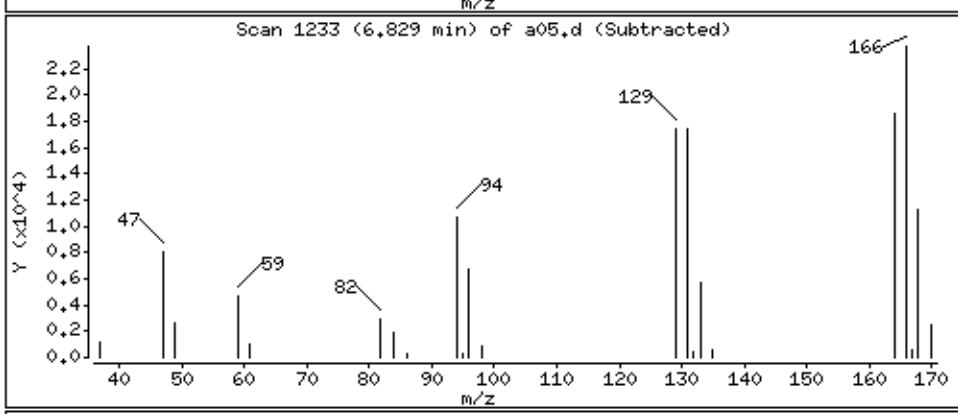
Column diameter: 0.18

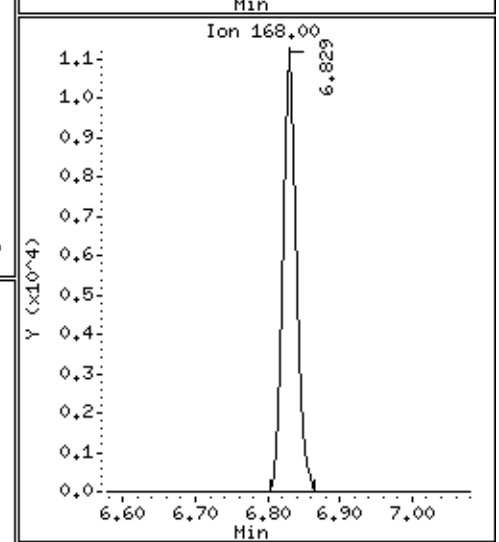
62 Tetrachloroethene

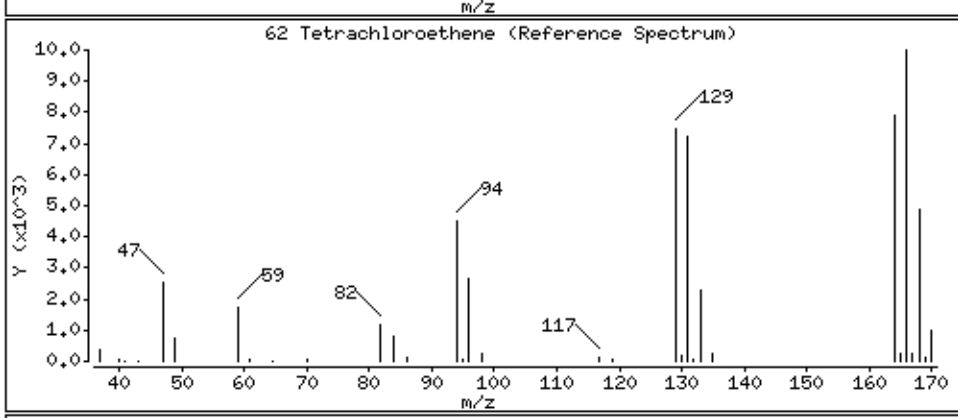
Concentration: 56.5 ppb

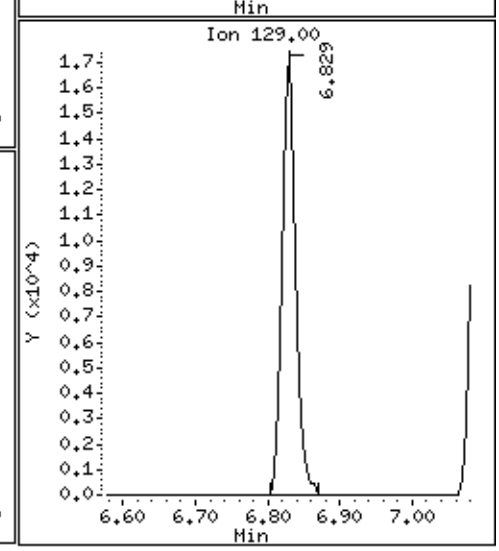


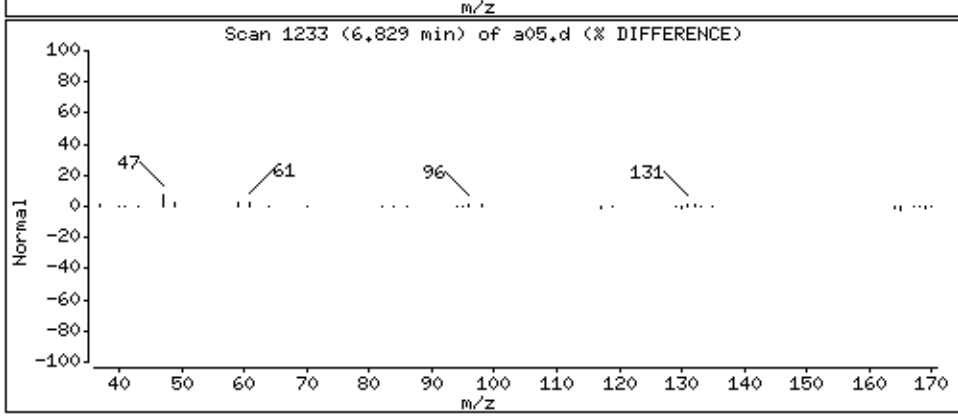












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

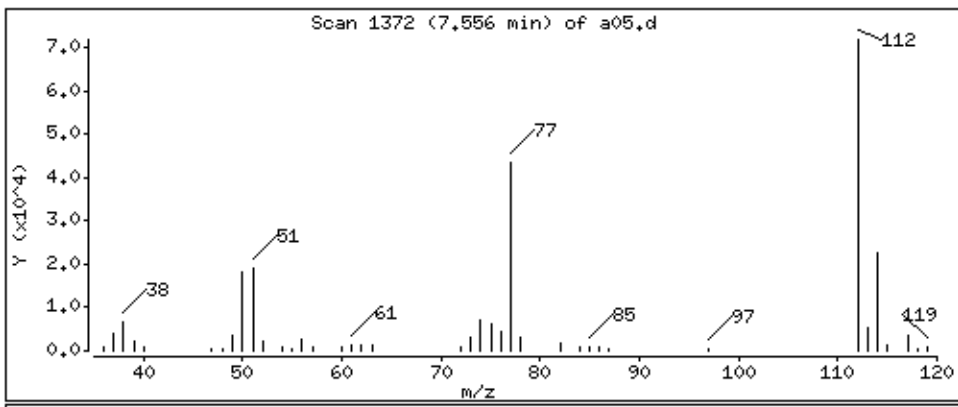
Operator: TMW

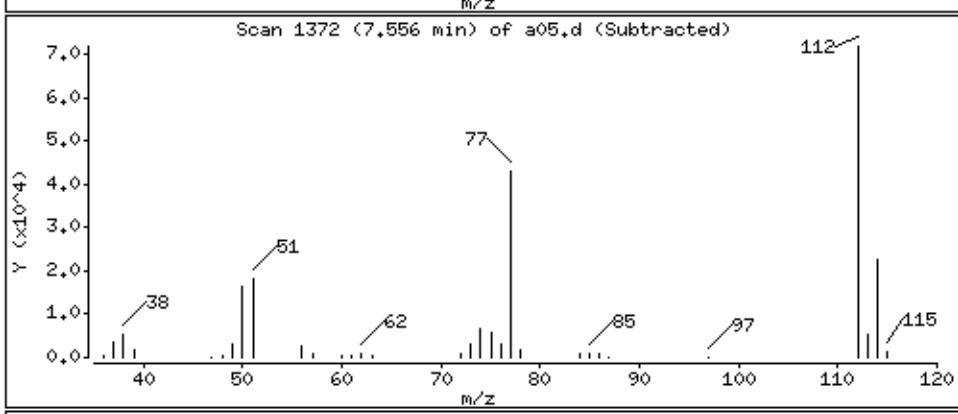
Column phase: DB-624

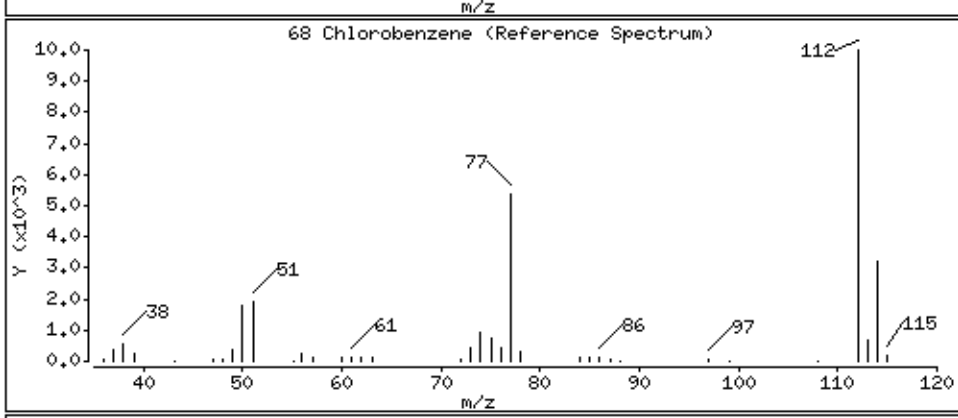
Column diameter: 0.18

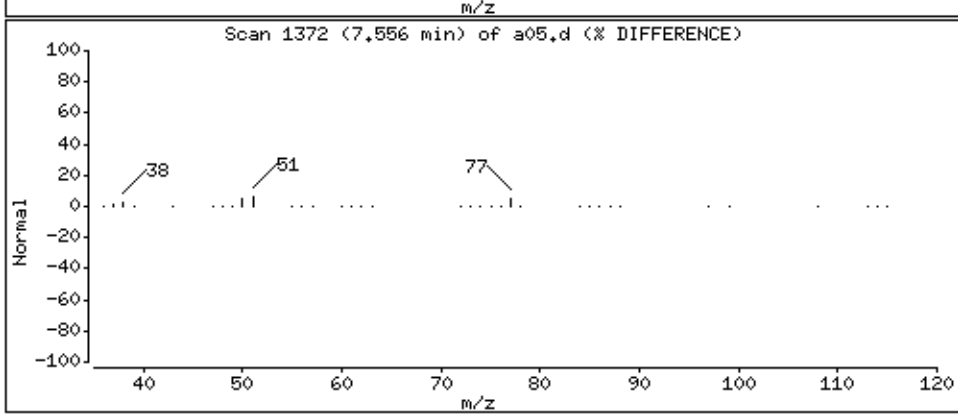
68 Chlorobenzene

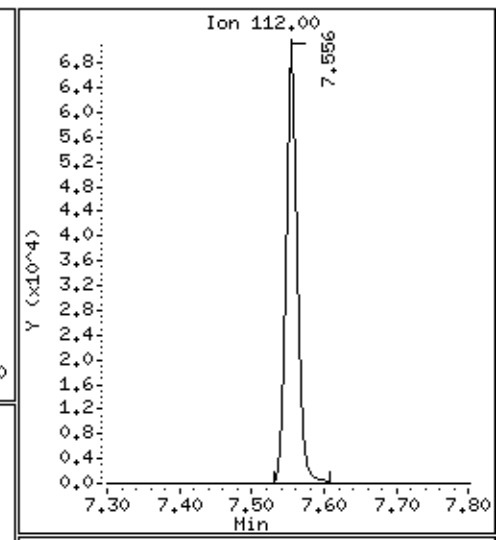
Concentration: 56.2 ppb

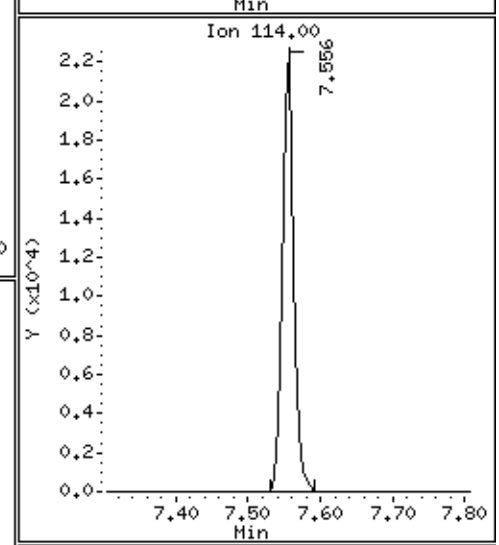


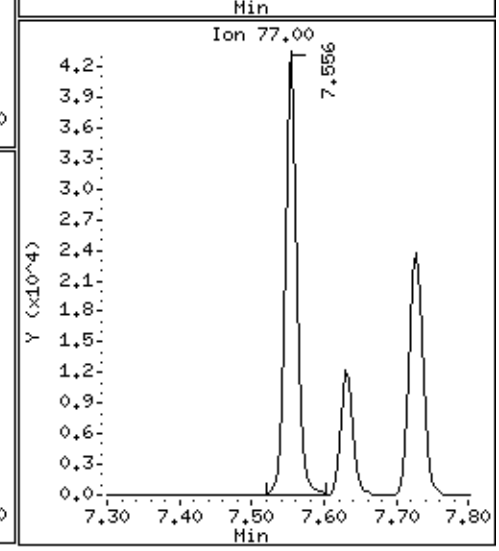












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

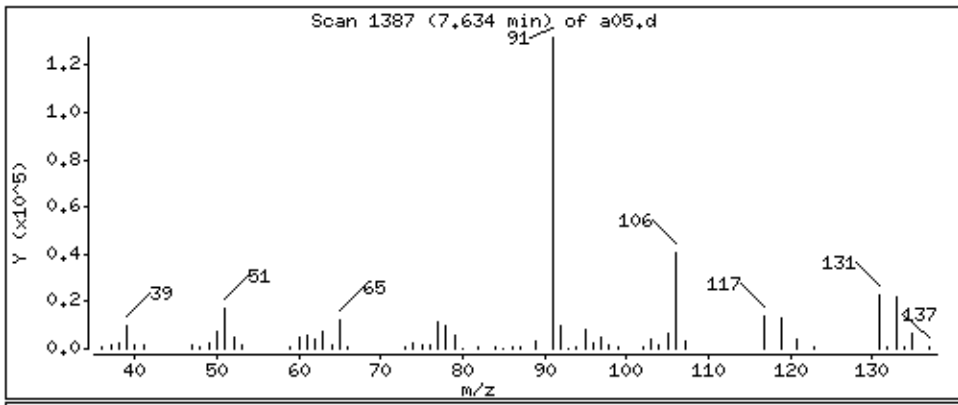
Operator: TMW

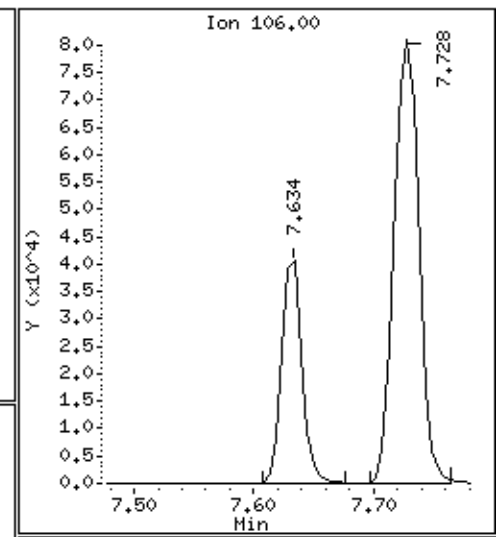
Column phase: DB-624

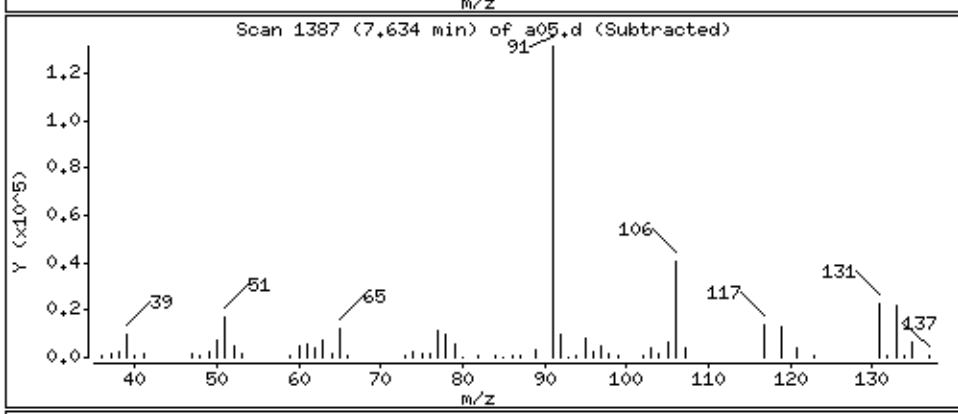
Column diameter: 0.18

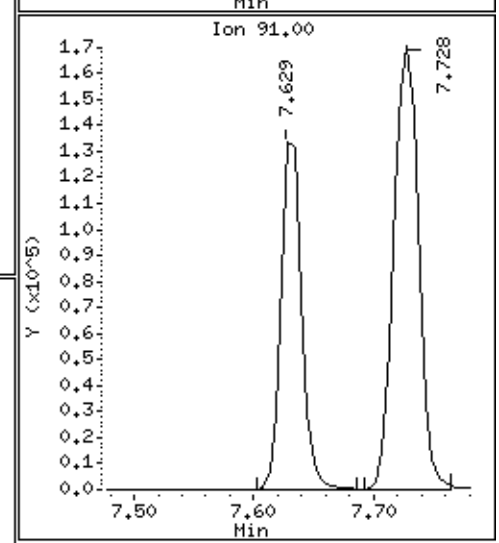
70 Ethylbenzene

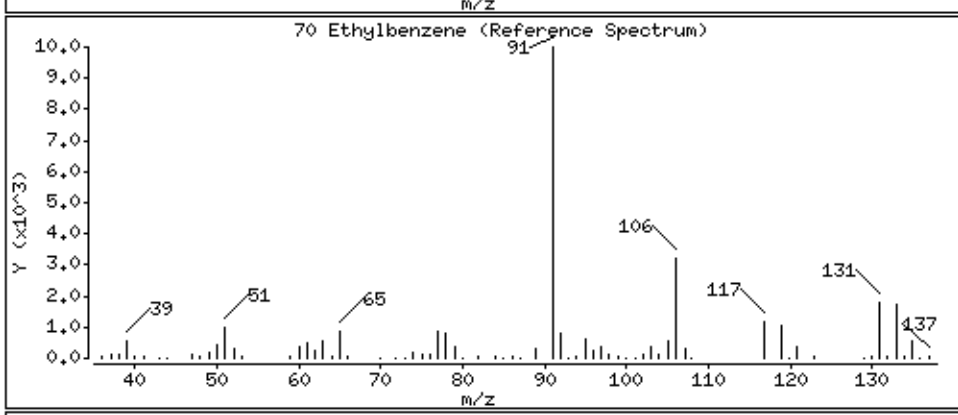
Concentration: 57.1 ppb

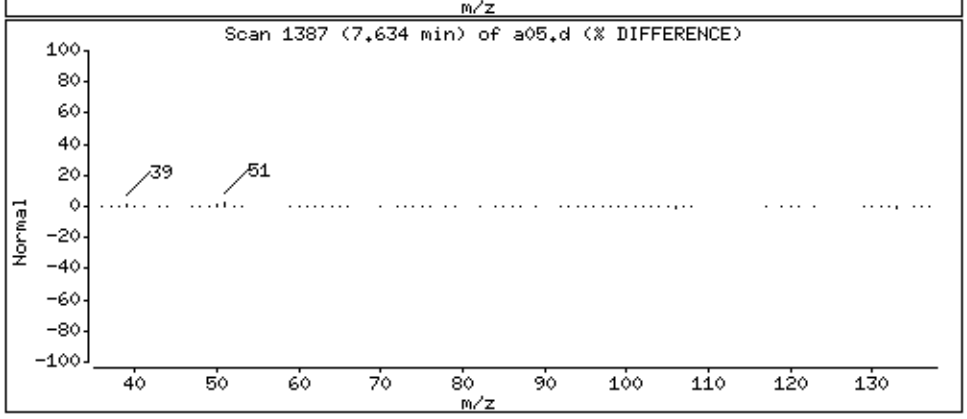












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

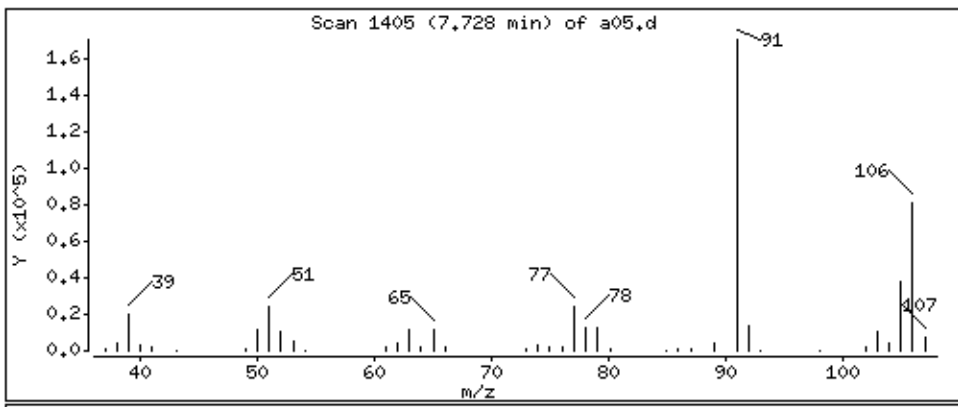
Operator: TMW

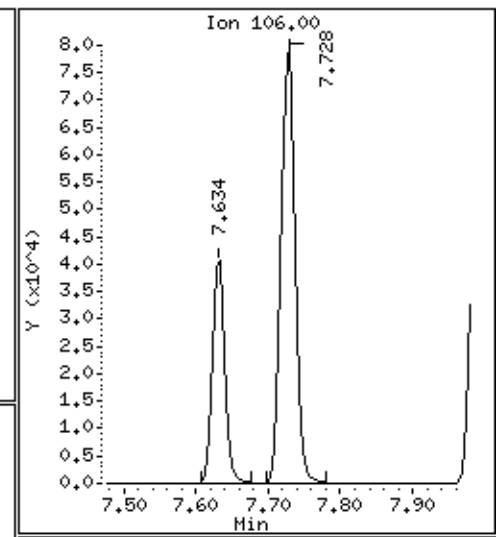
Column phase: DB-624

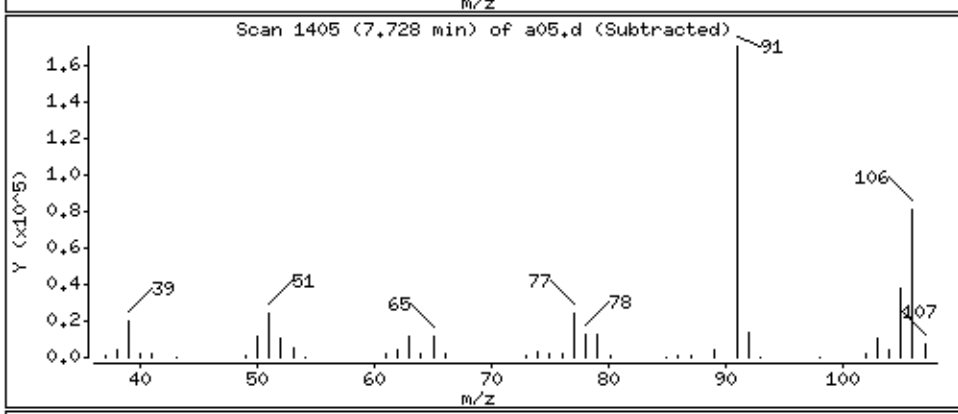
Column diameter: 0.18

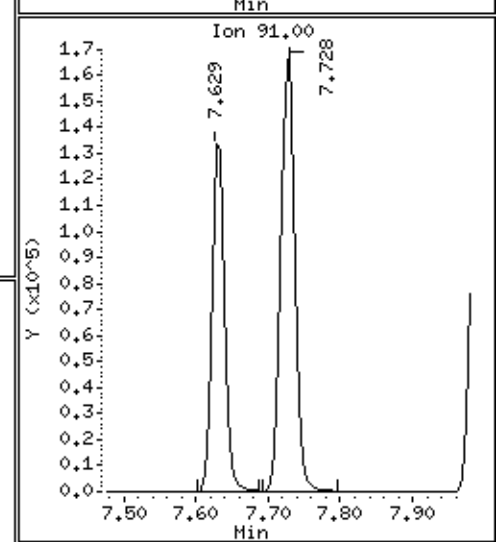
71 m&p-Xylene

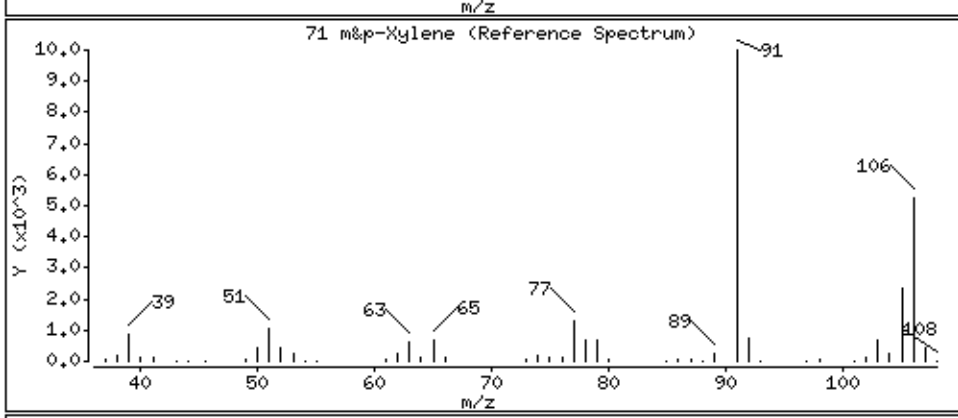
Concentration: 119 ppb

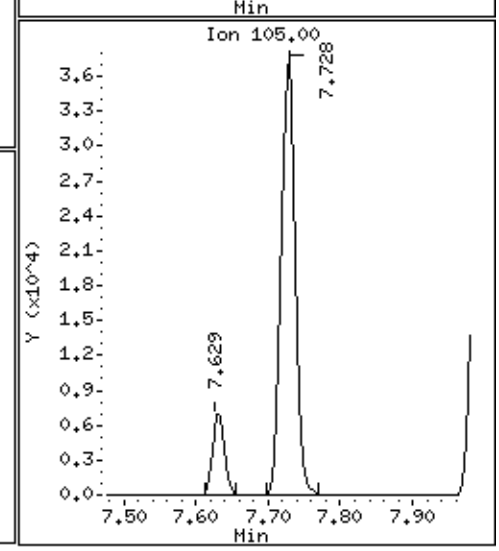


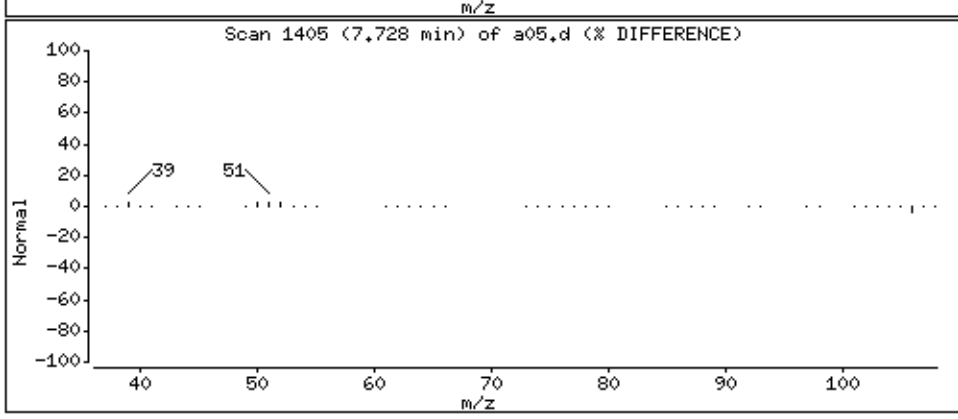












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

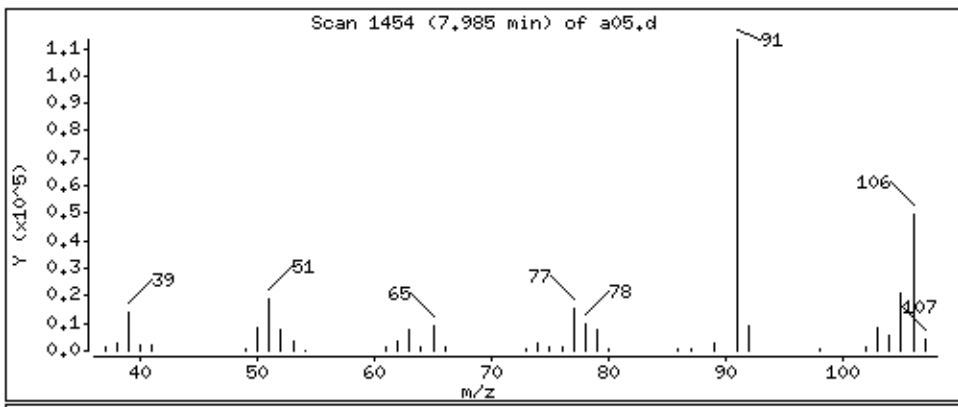
Operator: TMW

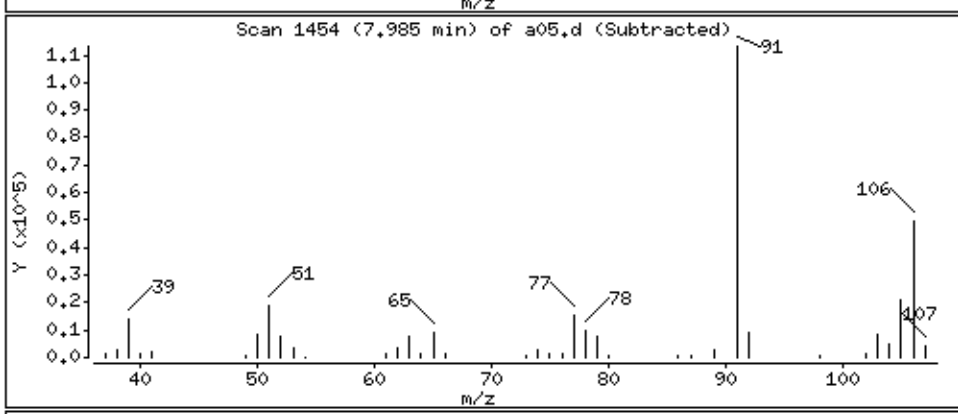
Column phase: DB-624

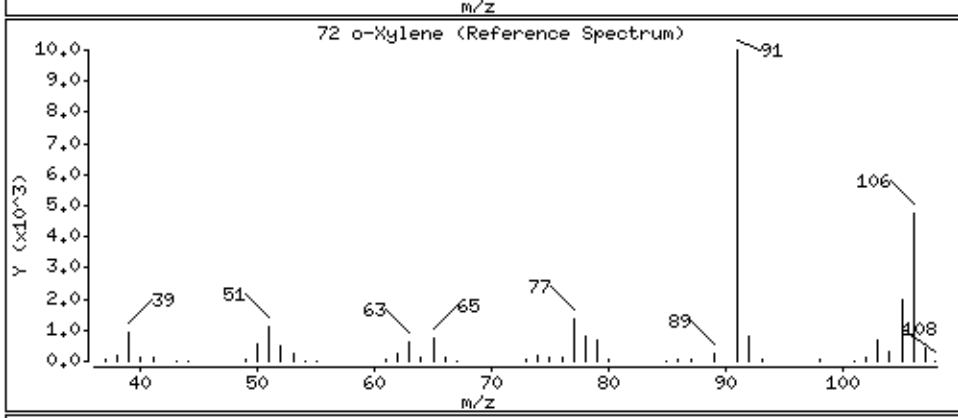
Column diameter: 0.18

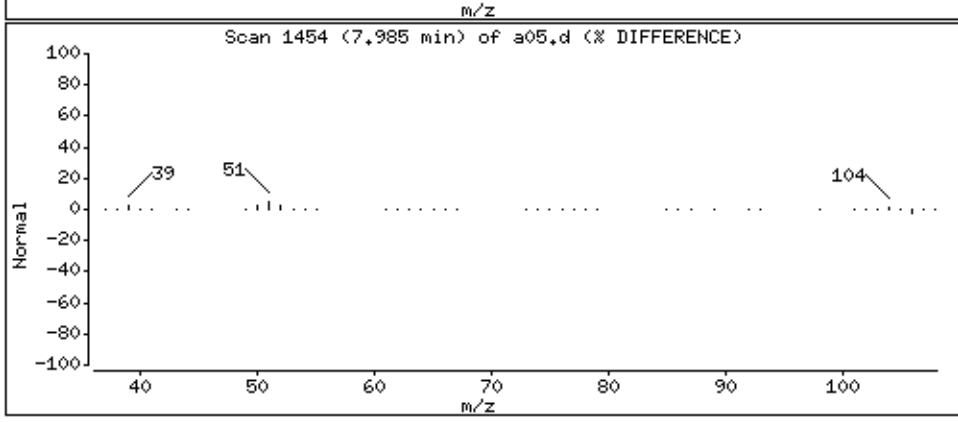
72 o-Xylene

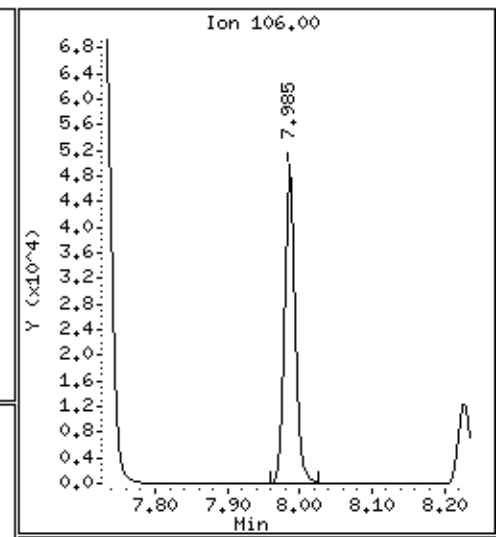
Concentration: 54.8 ppb

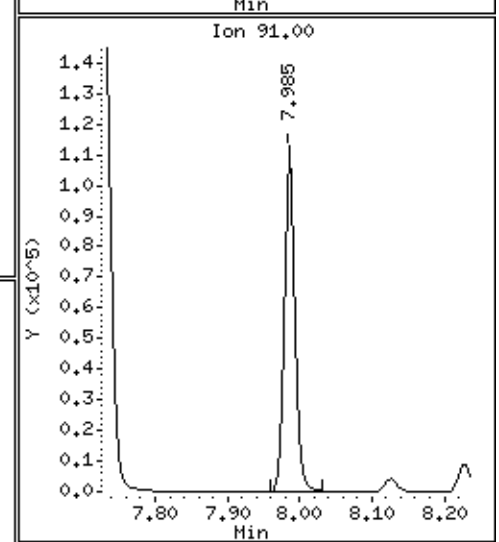


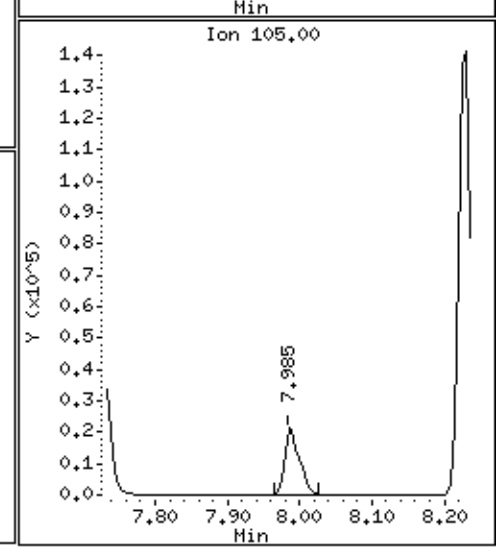












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

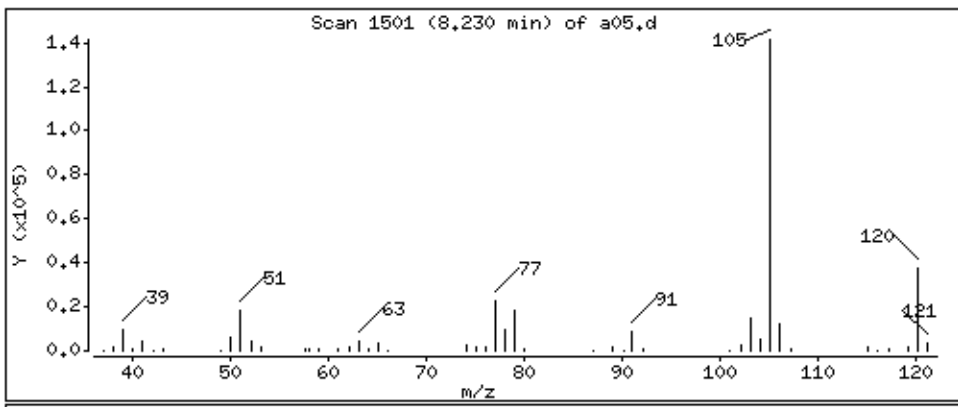
Operator: TMW

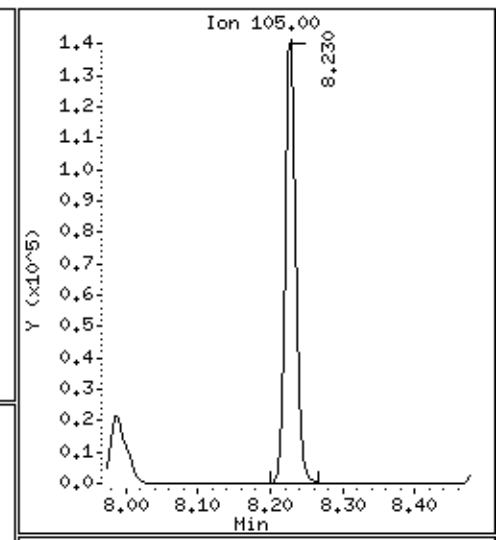
Column phase: DB-624

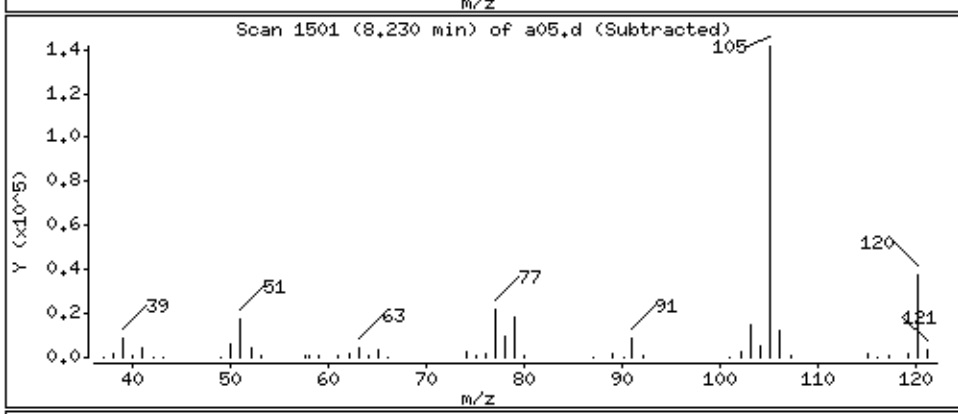
Column diameter: 0.18

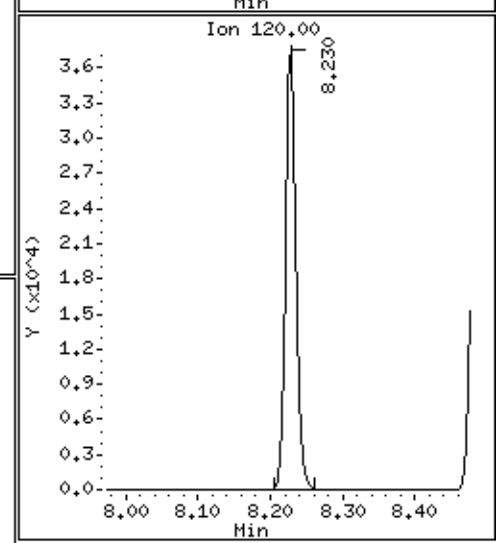
75 Isopropylbenzene

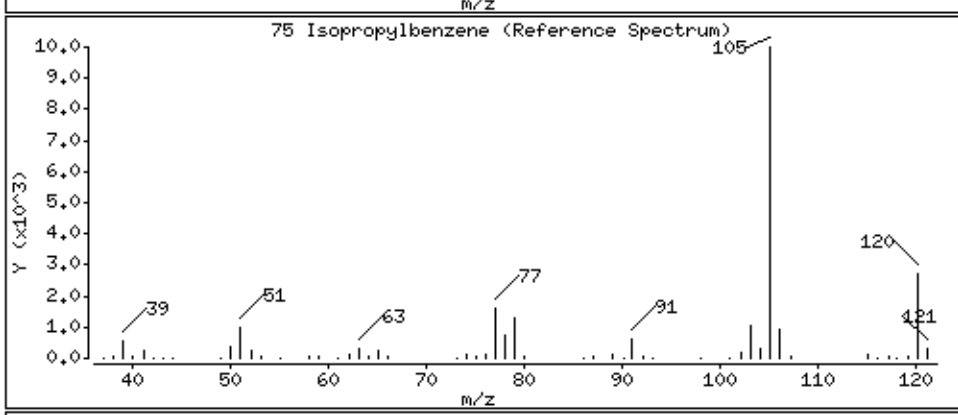
Concentration: 55.6 ppb

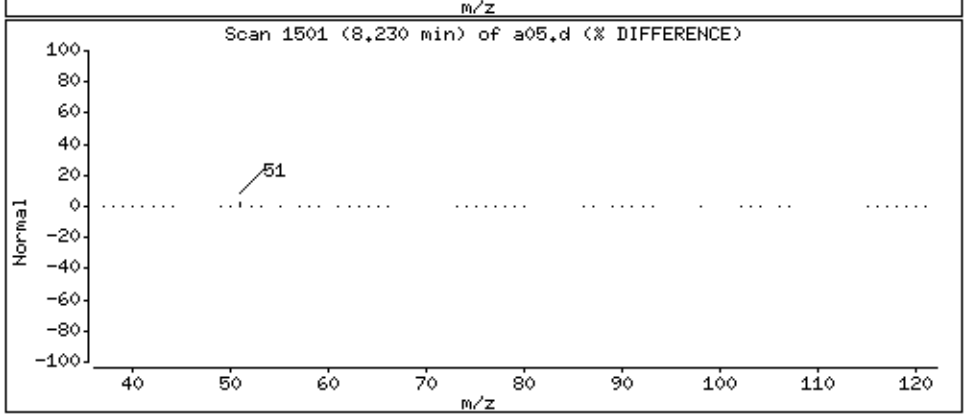












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

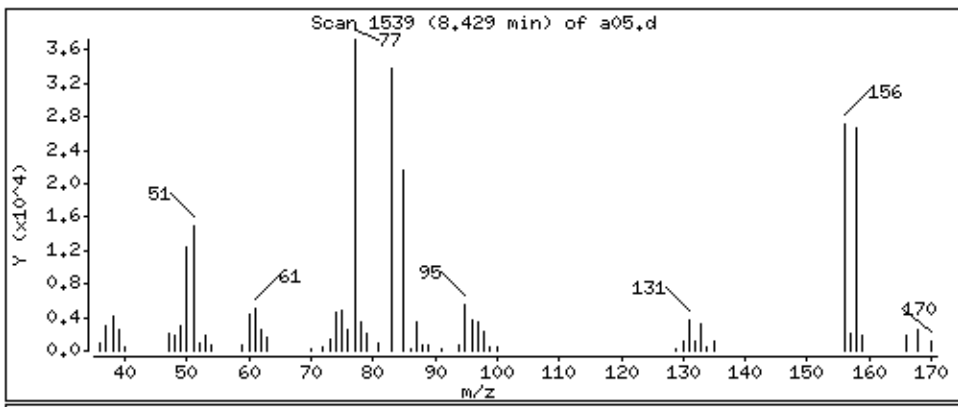
Operator: TMW

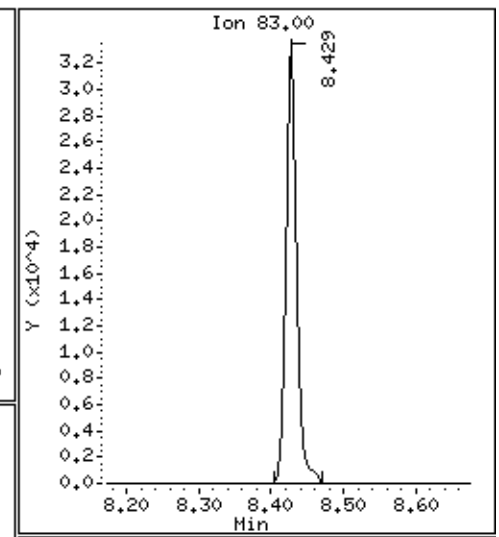
Column phase: DB-624

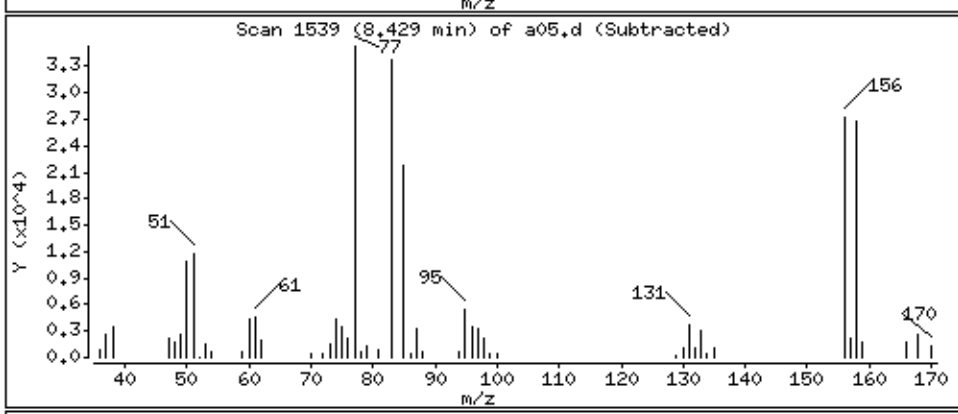
Column diameter: 0.18

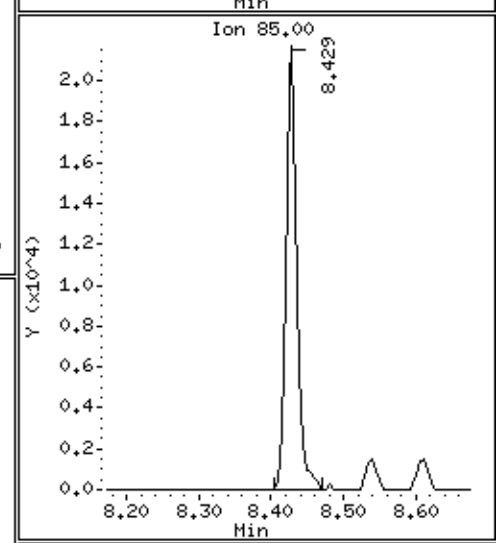
78 1,1,2,2-Tetrachloroethane

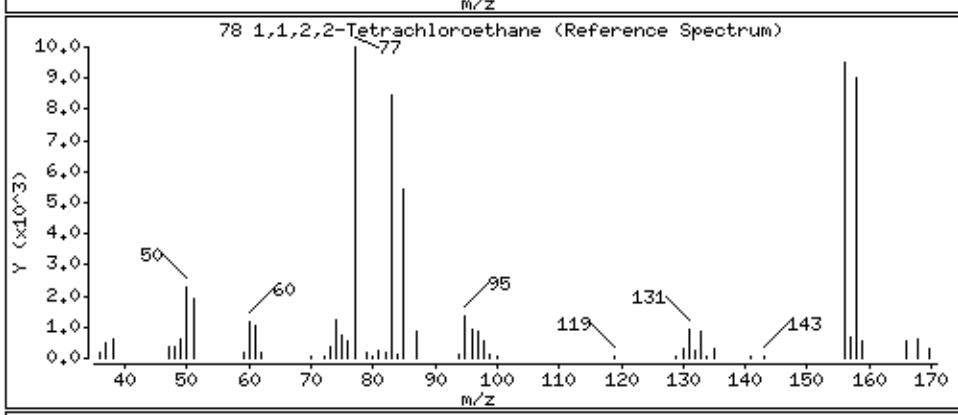
Concentration: 58.6 ppb

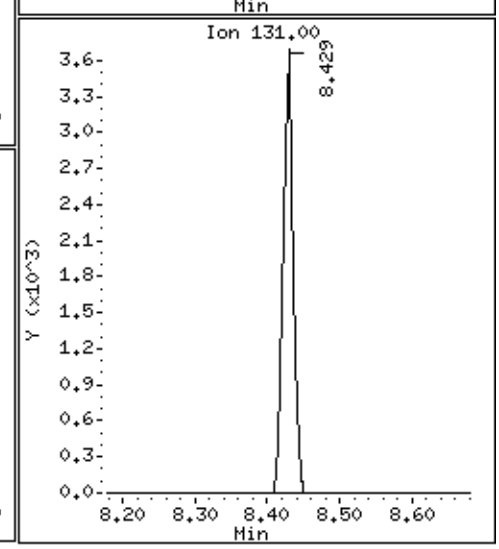


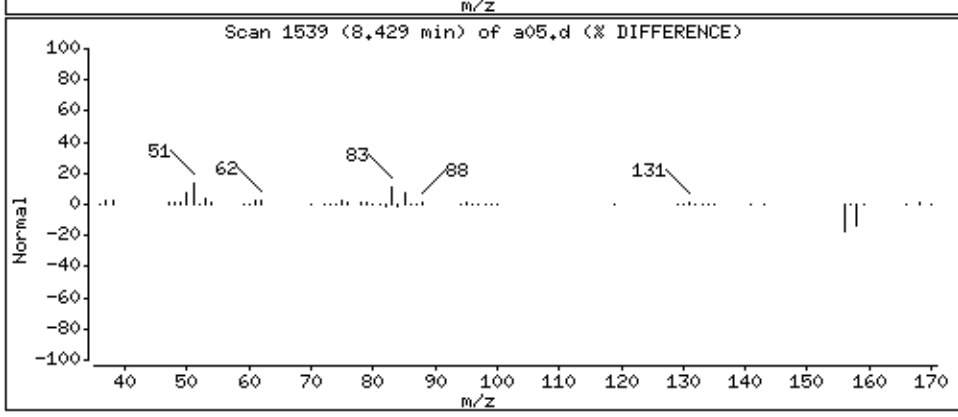












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b\a05.d

Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

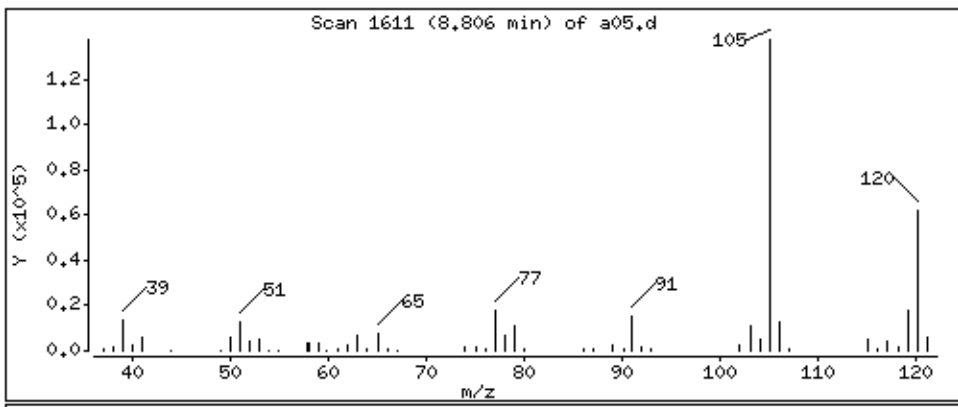
Operator: TMW

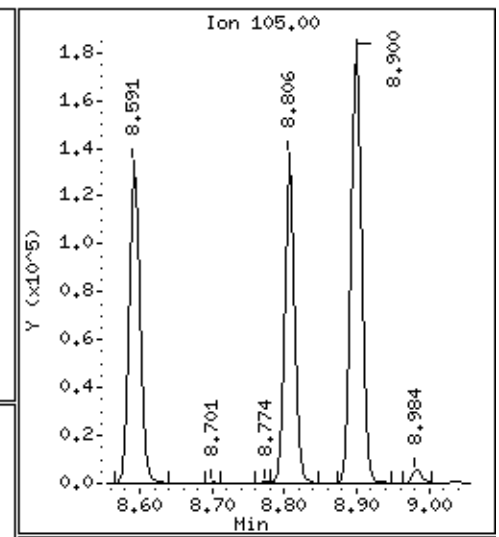
Column phase: DB-624

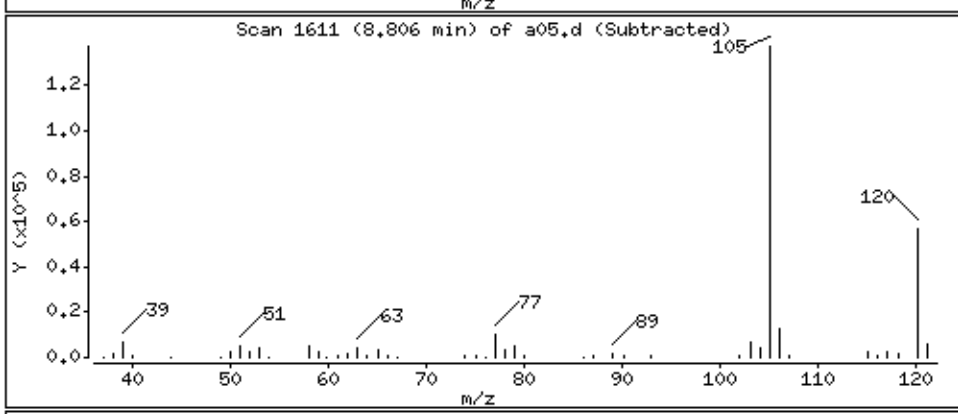
Column diameter: 0.18

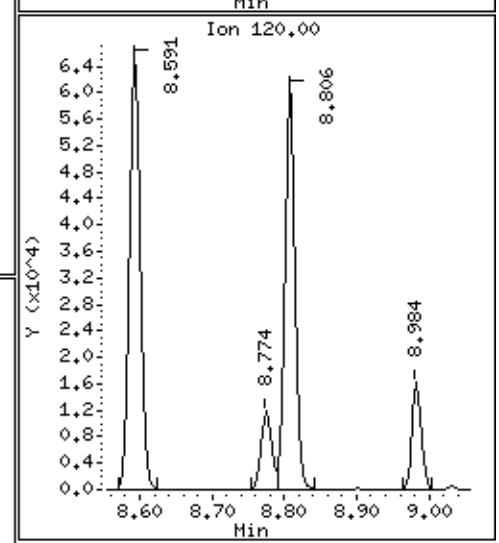
86 1,2,4-Trimethylbenzene

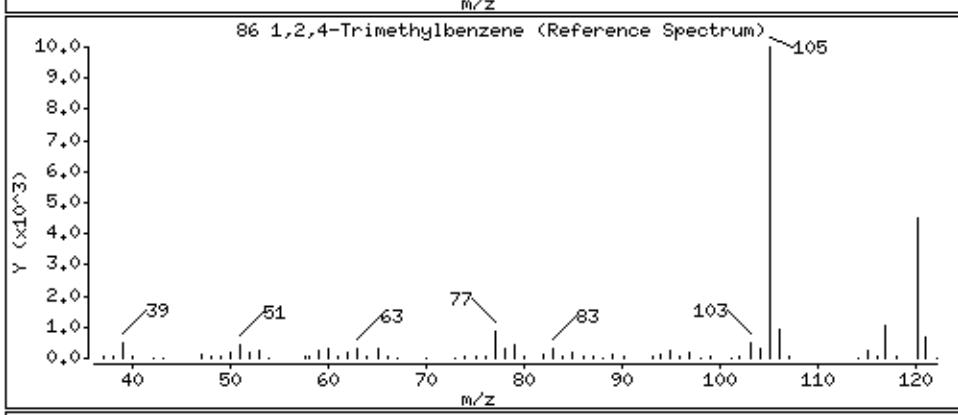
Concentration: 56.2 ppb

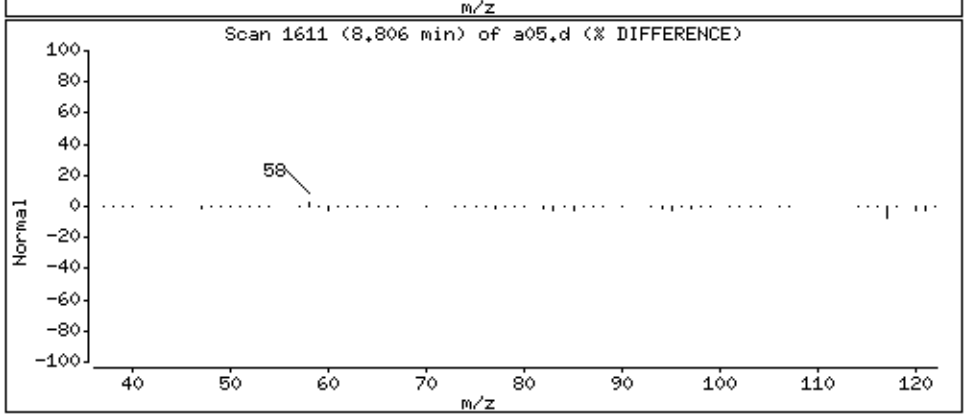












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Date : 19-JAN-2017 17:31

Client ID: GP-2 12-14'MS

Instrument: 50mv5a.i

Sample Info: 1711350,139467:5

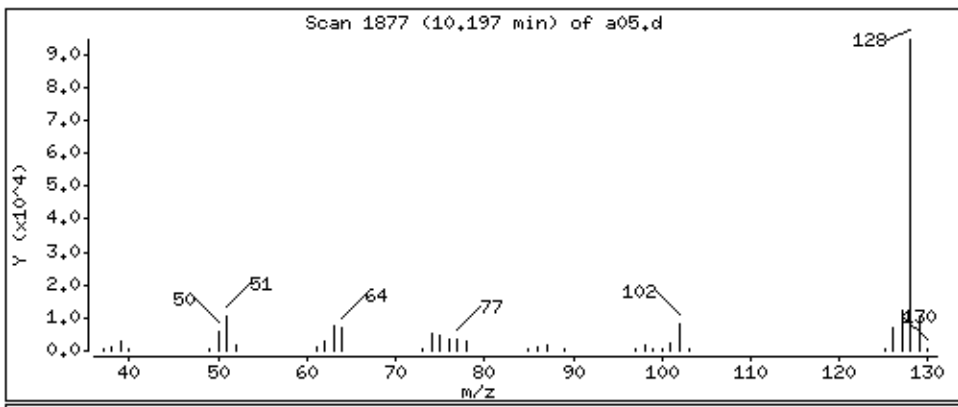
Operator: TMW

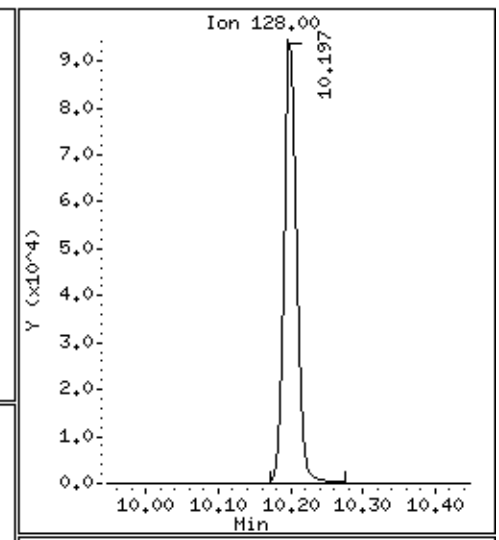
Column phase: DB-624

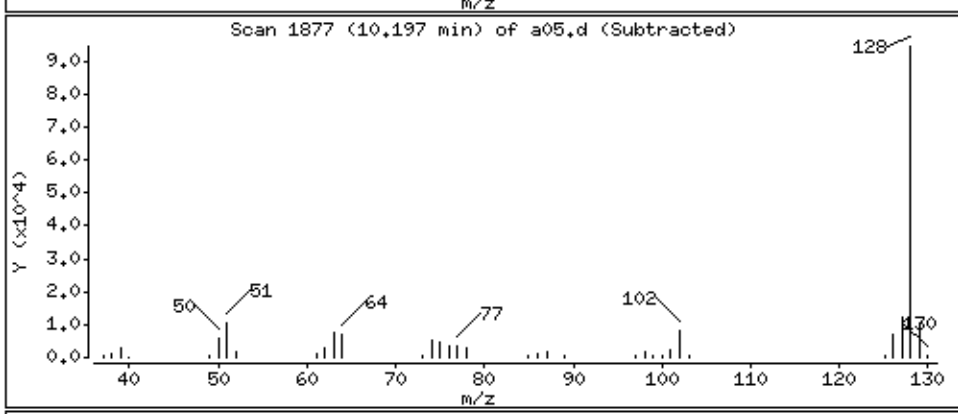
Column diameter: 0.18

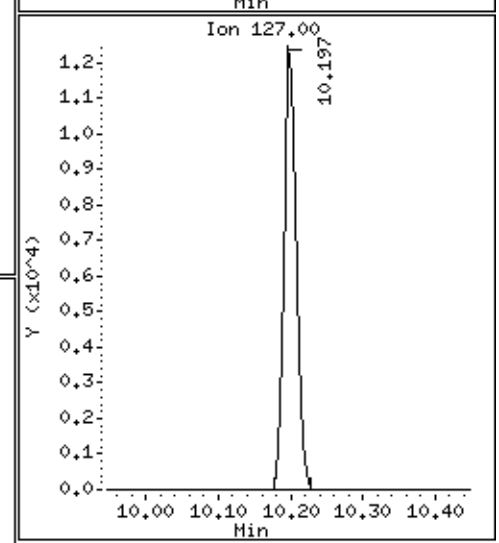
97 Naphthalene

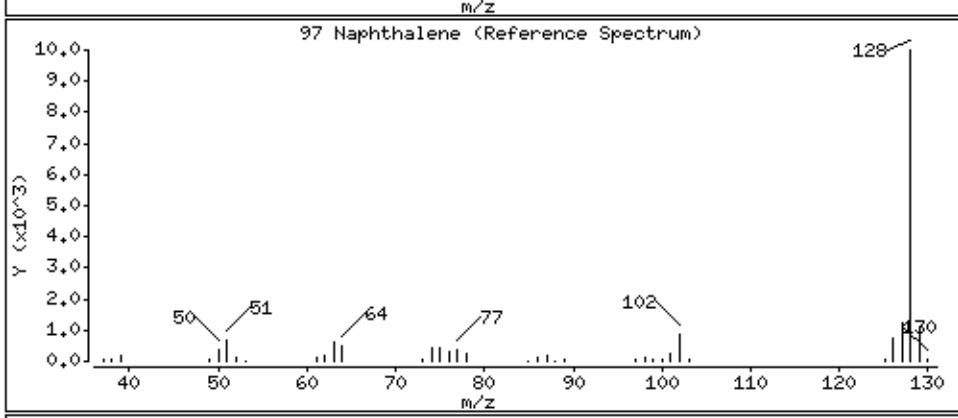
Concentration: 51.6 ppb

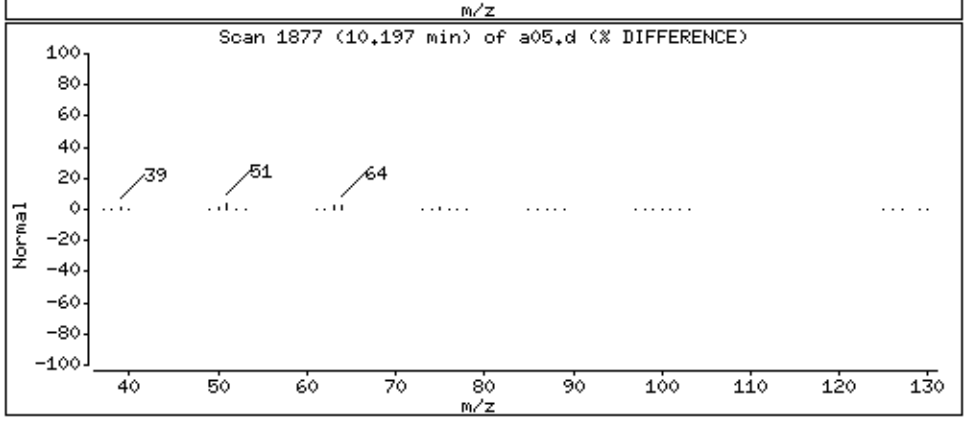












Data File: \\192.168.50.6\chem\50mv5a.i\a011917.b/a05.d
Injection Date: 19-JAN-2017 17:31
Instrument: 50mv5a.i
Lab Sample ID: 1711350
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received: 01/17/2017 13:15
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/20/2017 16:42
Lab Sample ID: 1711351
Date Analyzed: 01/20/2017 16:42
Lab File ID: B012017.B\B06.D
Initial wt/vol: 6.502 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5B Percent Moisture: 19.9%

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
71-43-2	Benzene	0.048	
108-90-7	Chlorobenzene	0.047	
67-66-3	Chloroform	0.048	
75-35-4	1,1-Dichloroethene	0.050	
156-59-2	cis-1,2-Dichloroethene	0.049	
156-60-5	trans-1,2-Dichloroethene	0.050	
78-87-5	1,2-Dichloropropane	0.050	
100-41-4	Ethylbenzene	0.050	
98-82-8	Isopropylbenzene (Cumene)	0.048	
1634-04-4	Methyl-tert-butyl ether	0.048	
91-20-3	Naphthalene	0.043	
79-34-5	1,1,2,2-Tetrachloroethane	0.048	
127-18-4	Tetrachloroethene	0.051	
108-88-3	Toluene	0.050	
71-55-6	1,1,1-Trichloroethane	0.049	
79-01-6	Trichloroethene	0.047	
95-63-6	1,2,4-Trimethylbenzene	0.048	
75-01-4	Vinyl chloride	0.048	
1330-20-7	Xylene (Total)	0.14	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d
Lab Smp Id: 1711351 Client Smp ID: GP-2 12-14'MSD
Inj Date : 20-JAN-2017 16:42
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 1711351,139467:5
Misc Info : 99014
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b012017.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 11:18 50mv5b.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:33 Cal File: b08cal8.d
Als bottle: 57 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	19.878	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.180	1.180	(0.263)	41133	50.4031	62.9	
22 1,2-Dichloroethene (trans)	96	2.262	2.262	(0.505)	33622	52.4575	65.5	
28 1,2-Dichloroethene (cis)	96	3.099	3.099	(0.692)	36306	50.8905	63.5(Q)	
11 1,1-Dichloroethene	96	1.781	1.781	(0.398)	30140	51.6307	64.4	
21 Methyl-tert-butyl ether	73	2.247	2.247	(0.502)	87091	49.5584	61.8	
34 Chloroform	83	3.470	3.465	(0.775)	62789	49.9110	62.3	
35 1,1,1-Trichloroethane	97	3.659	3.659	(0.817)	53438	50.9711	63.6	
$ 36 Dibromofluoromethane (S)	113	3.659	3.659	(0.817)	34377	46.6556	58.2	
41 Benzene	78	4.103	4.103	(0.916)	142824	49.6023	61.9	
* 45 Fluorobenzene (IS)	96	4.480	4.480	(1.000)	146704	50.0000		
46 Trichloroethene	95	4.909	4.909	(1.096)	36998	48.8191	60.9	
48 1,2-Dichloropropane	63	5.207	5.207	(1.162)	43747	52.6068	65.6	
$ 56 Toluene-d8 (S)	98	6.274	6.274	(0.832)	142959	53.5978	66.9	
57 Toluene	91	6.347	6.347	(0.842)	157089	51.7629	64.6	
61 Tetrachloroethene	166	6.839	6.839	(0.907)	41554	53.0616	66.2	
* 66 Chlorobenzene-d5 (IS)	117	7.540	7.540	(1.000)	110648	50.0000		
67 Chlorobenzene	112	7.560	7.560	(1.003)	101921	48.9998	61.2	
69 Ethylbenzene	106	7.639	7.639	(1.013)	57917	52.3175	65.3	
70 m&p-Xylene	106	7.733	7.733	(1.026)	139220	99.3518	124	
71 o-Xylene	106	7.989	7.989	(1.060)	68013	49.0165	61.2	
74 Isopropylbenzene	105	8.235	8.235	(1.092)	189042	49.5378	61.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 75 4-Bromofluorobenzene (S)	95	8.345	8.345	(1.107)	57273	51.0552	63.7	
77 1,1,2,2-Tetrachloroethane	83	8.434	8.434	(0.935)	44692	49.6760	62.0	
85 1,2,4-Trimethylbenzene	105	8.810	8.811	(0.977)	163850	50.4305	62.9	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.020	9.020	(1.000)	63167	50.0000		
96 Naphthalene	128	10.202	10.202	(1.131)	139213	45.1559	56.4	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

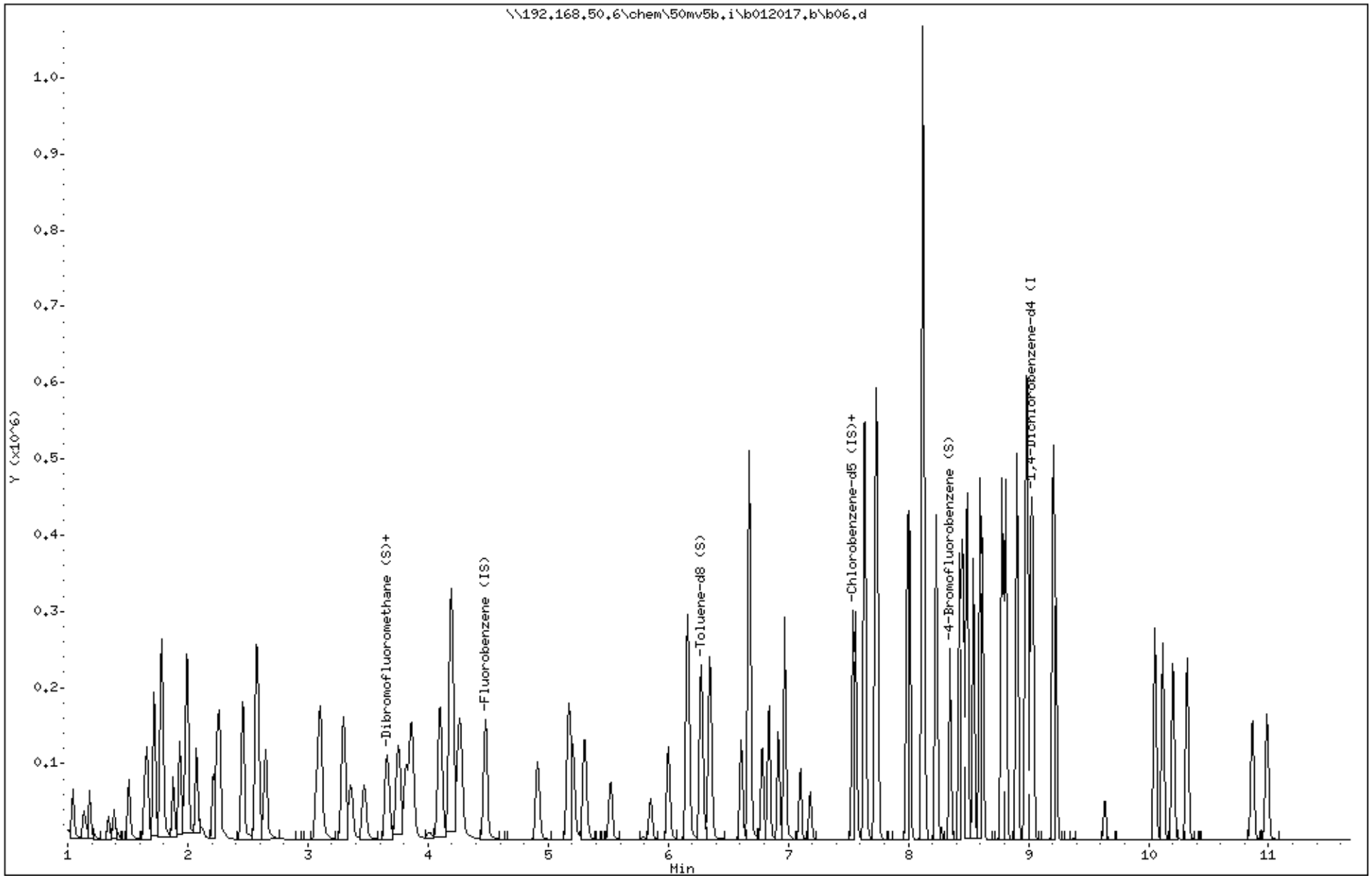
Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d
Date : 20-JAN-2017 16:42
Client ID: GP-2 12-14'MSD
Sample Info: 1711351,139467:5

Instrument: 50mv5b.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

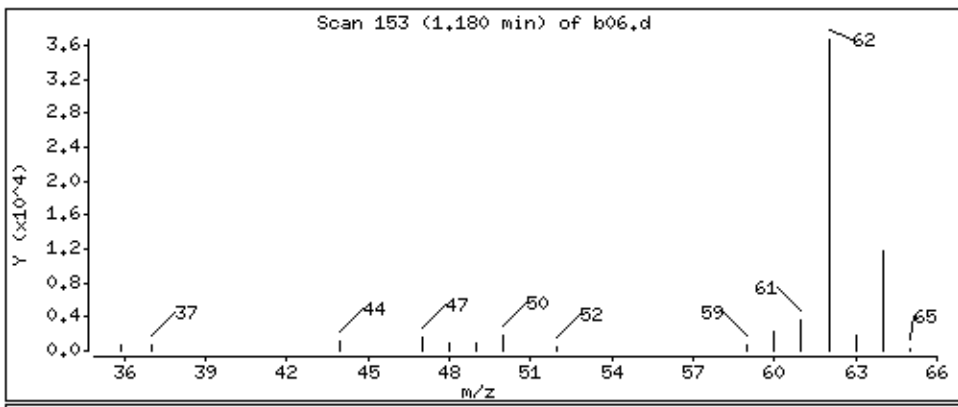
Operator: TMW

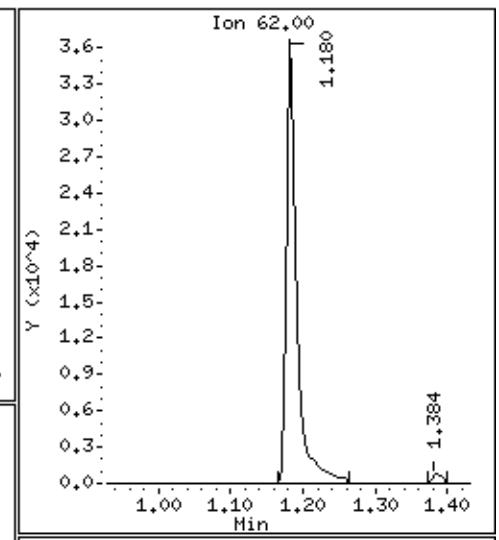
Column phase: DB-624

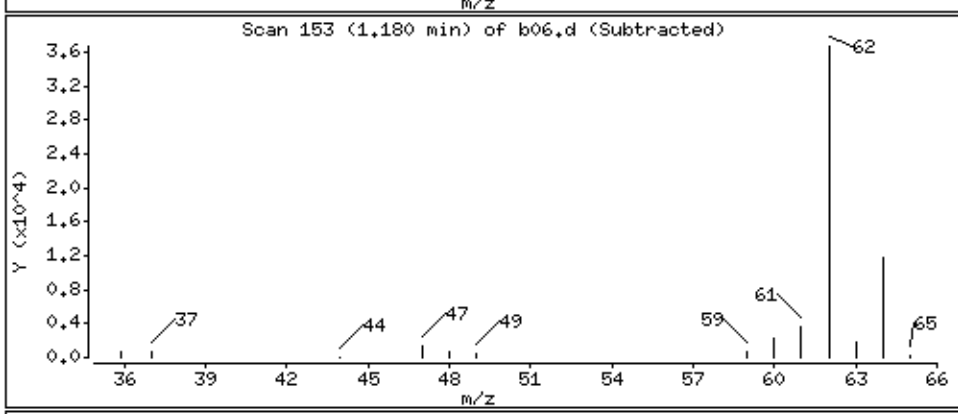
Column diameter: 0.18

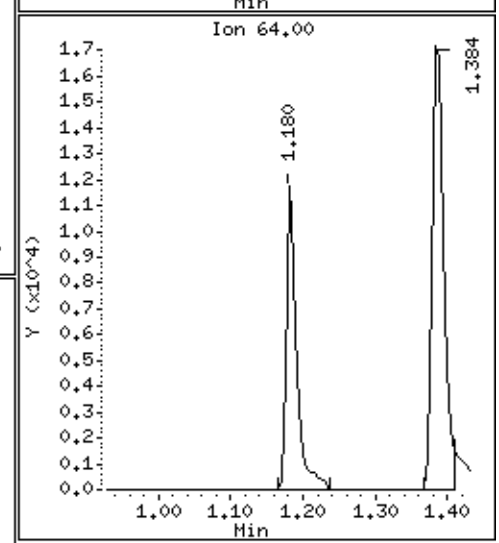
3 Vinyl Chloride

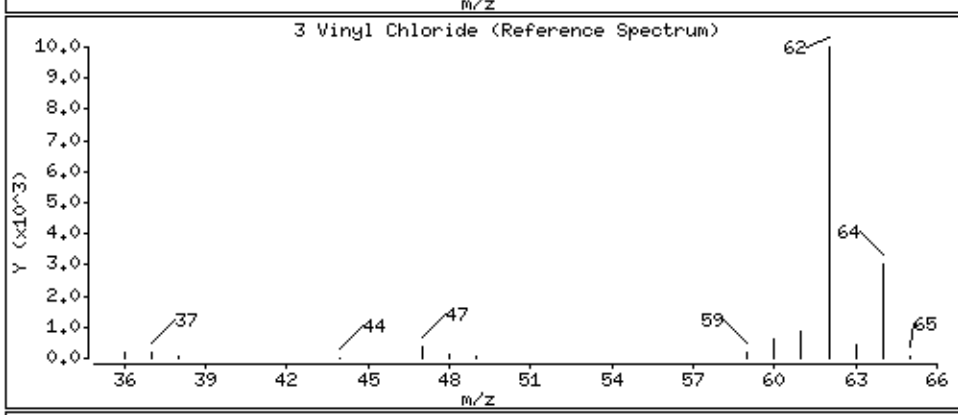
Concentration: 62.9 ppb

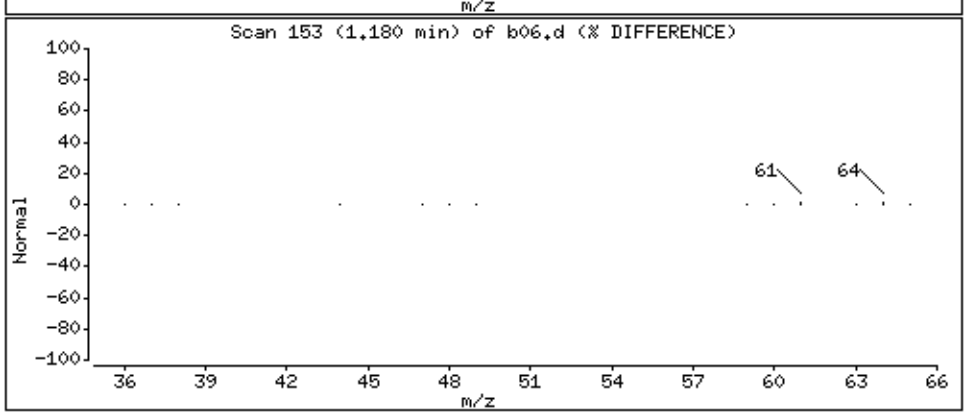












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

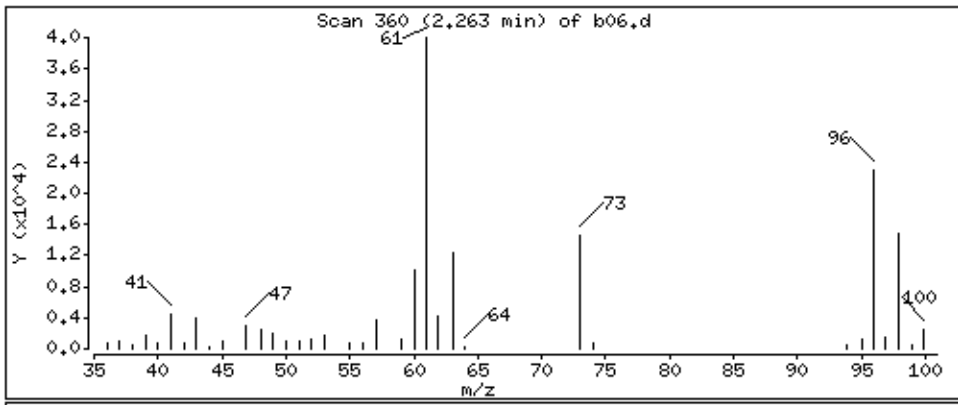
Operator: TMW

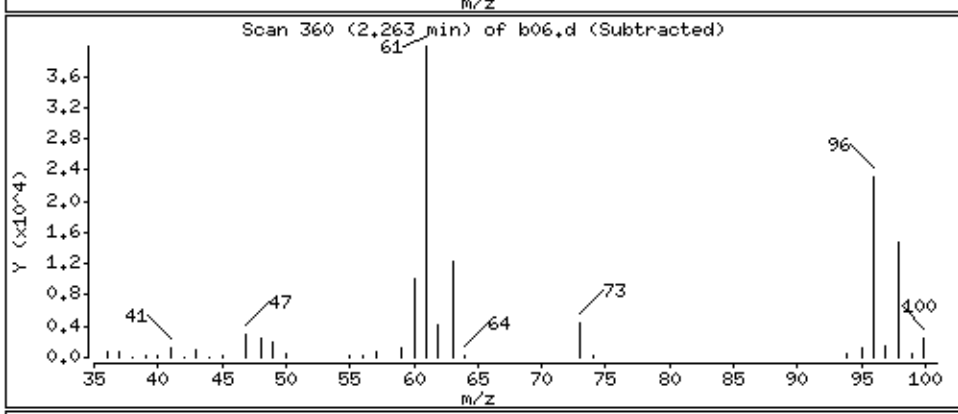
Column phase: DB-624

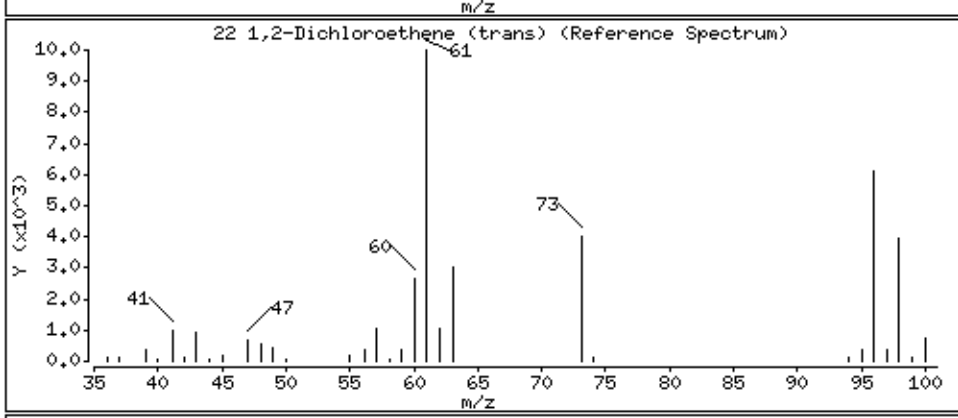
Column diameter: 0.18

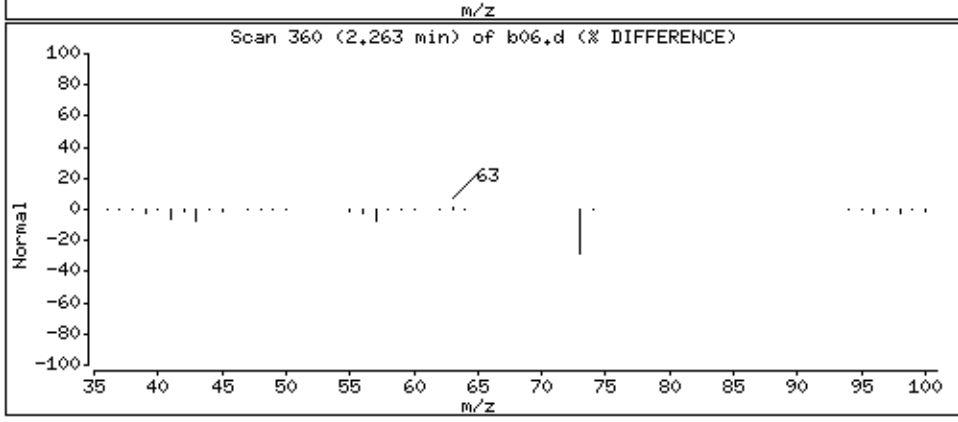
22 1,2-Dichloroethene (trans)

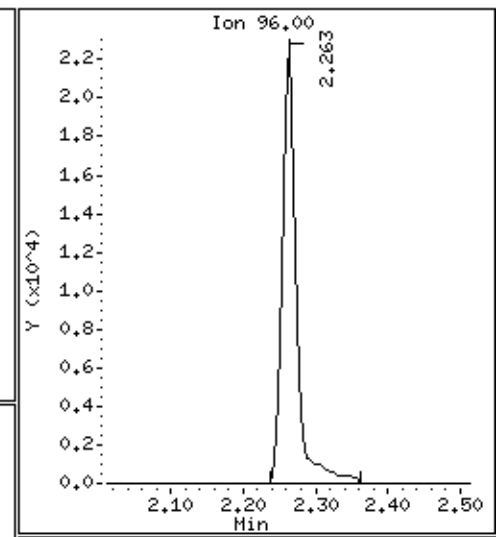
Concentration: 65.5 ppb

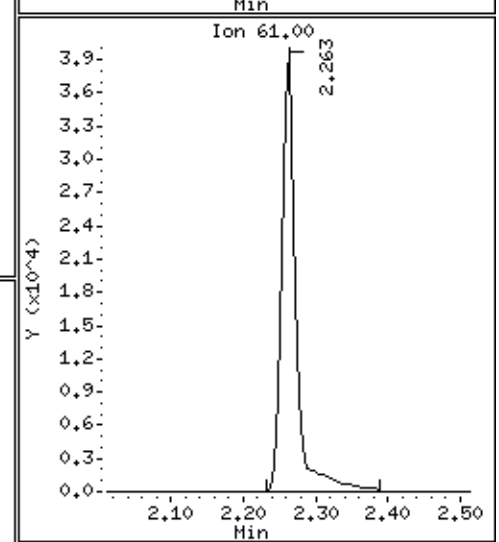


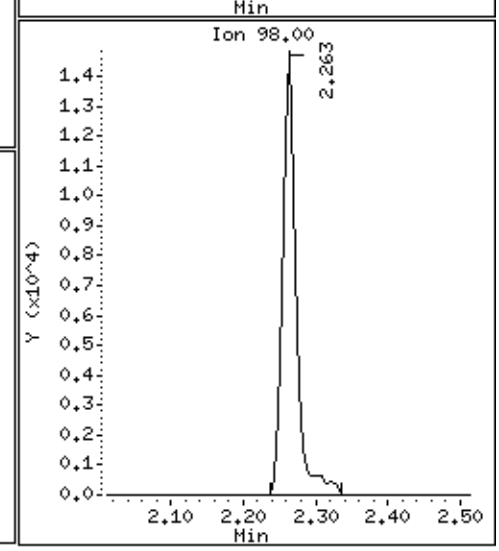












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

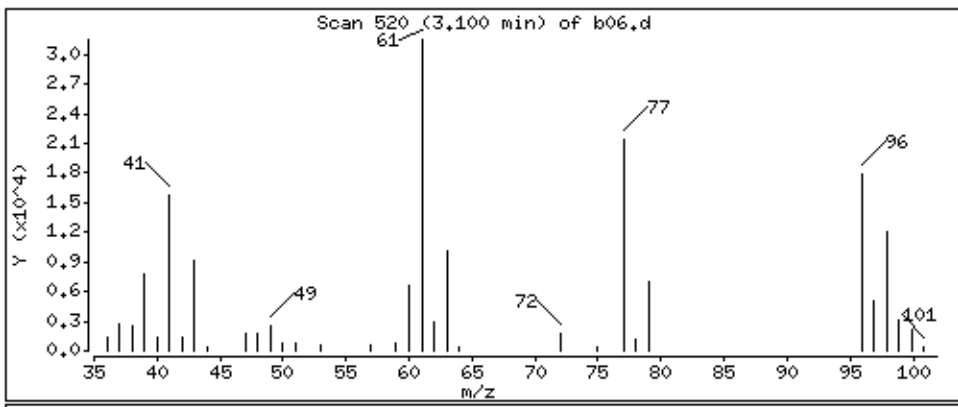
Operator: TMW

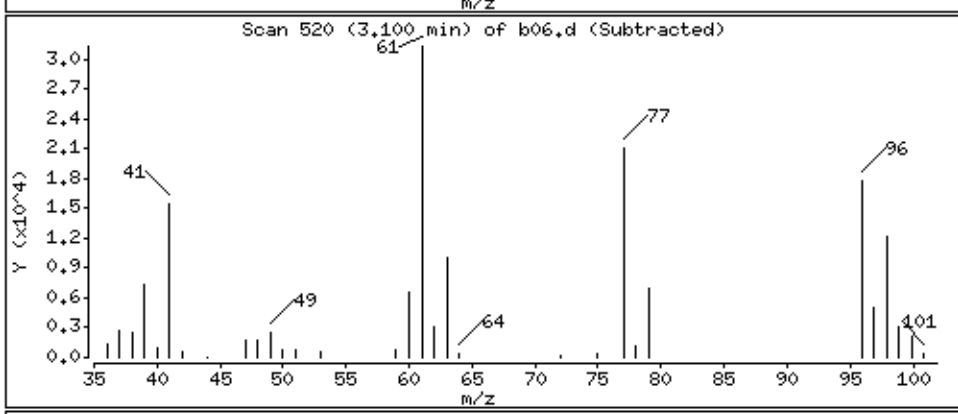
Column phase: DB-624

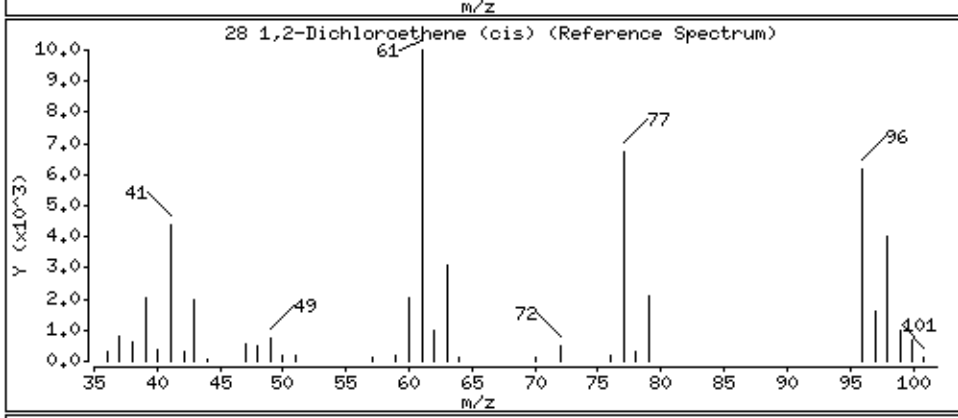
Column diameter: 0.18

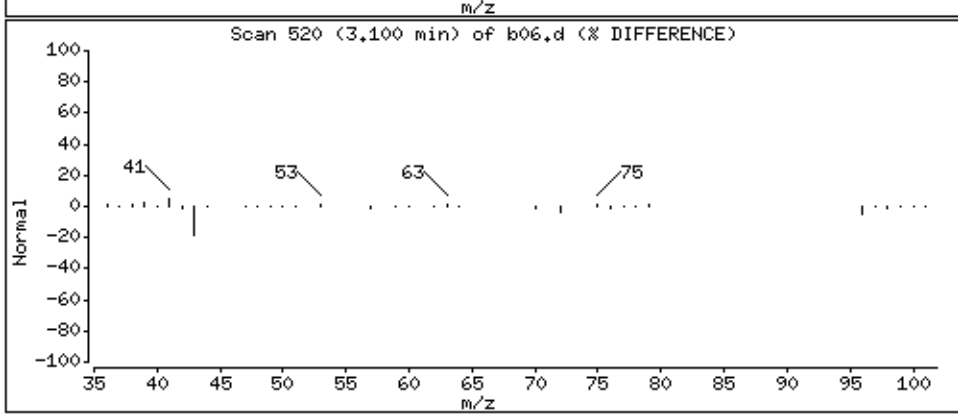
28 1,2-Dichloroethene (cis)

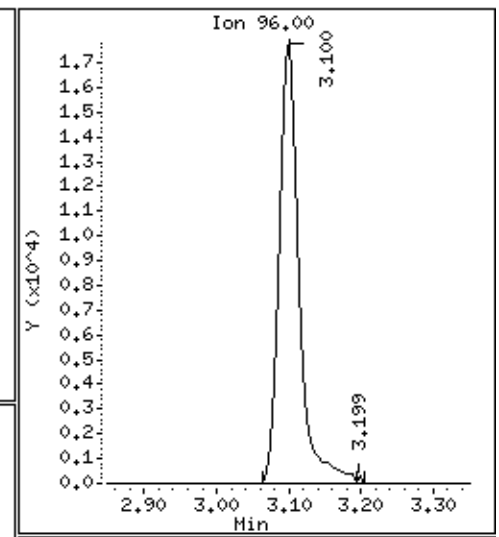
Concentration: 63.5 ppb

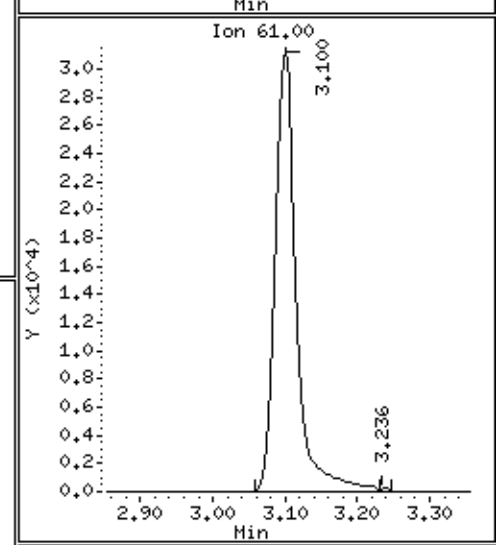


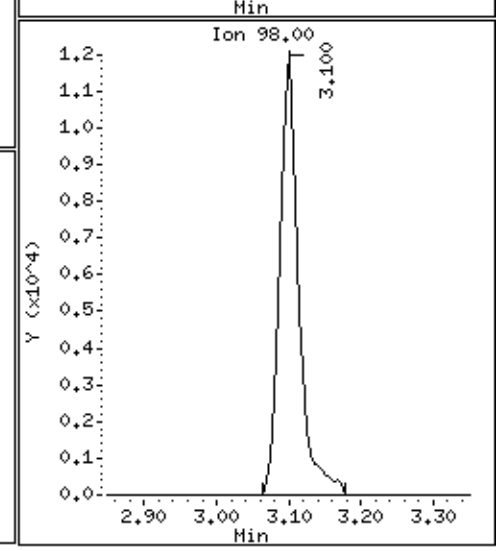












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

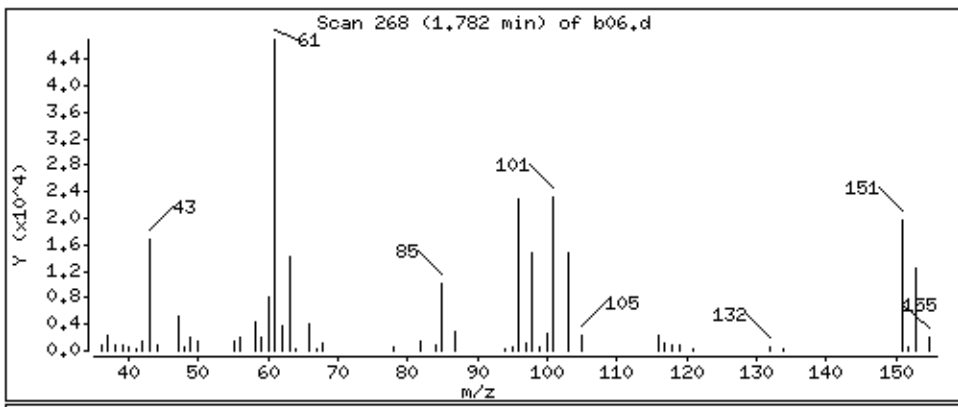
Operator: TMW

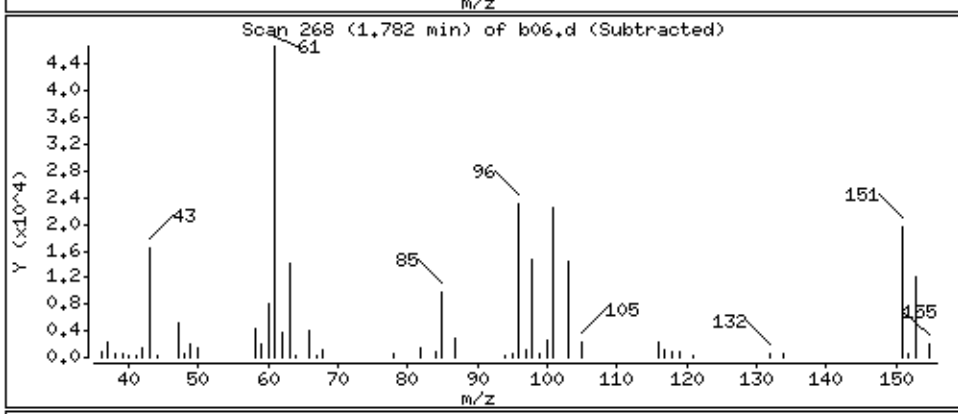
Column phase: DB-624

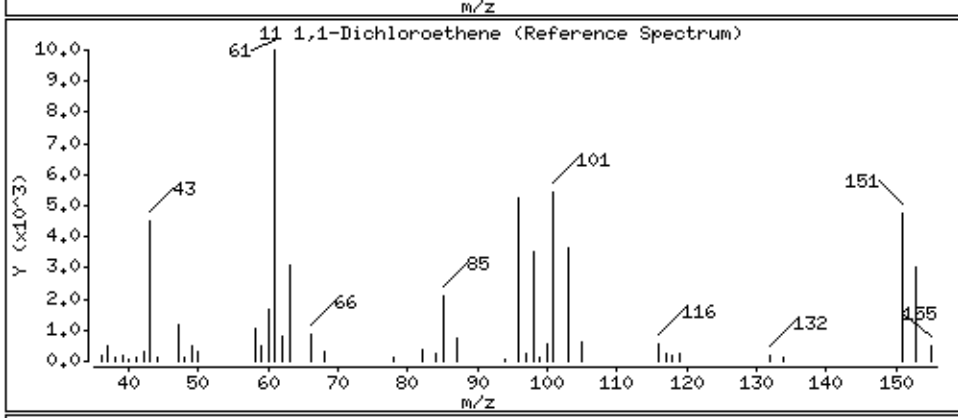
Column diameter: 0.18

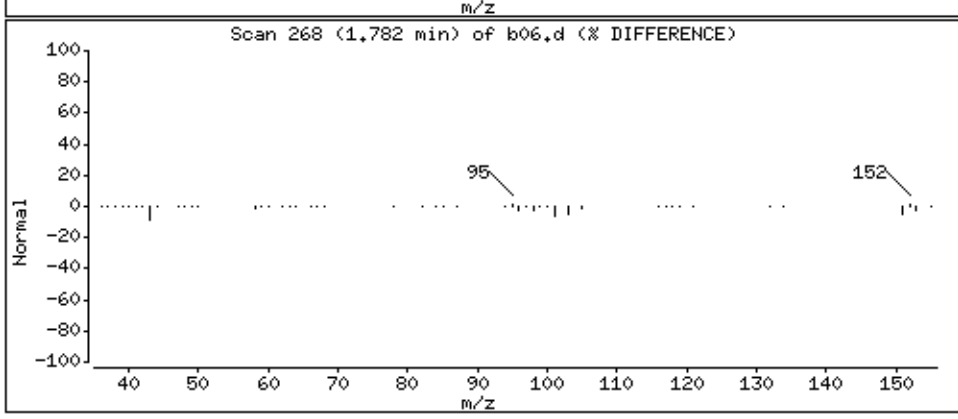
11 1,1-Dichloroethene

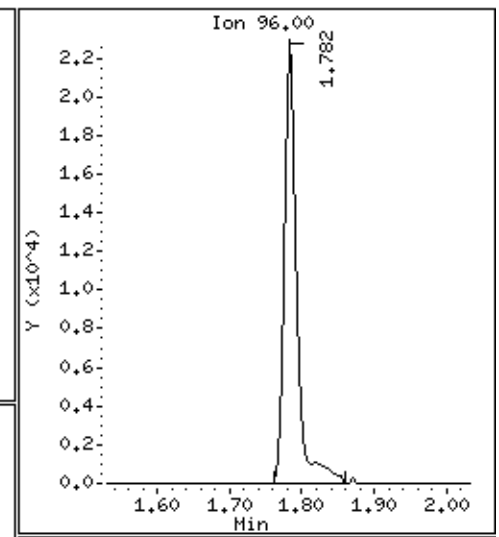
Concentration: 64.4 ppb

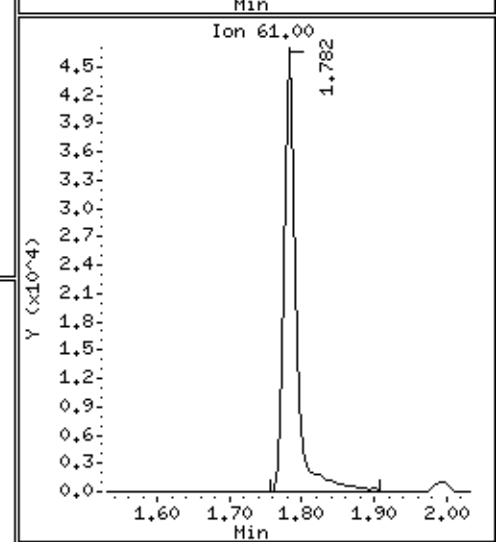


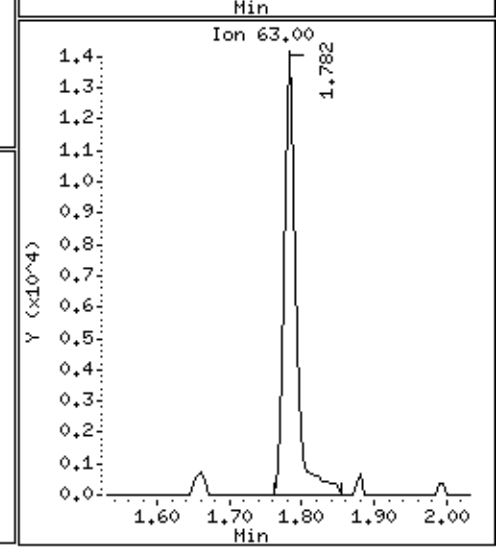












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

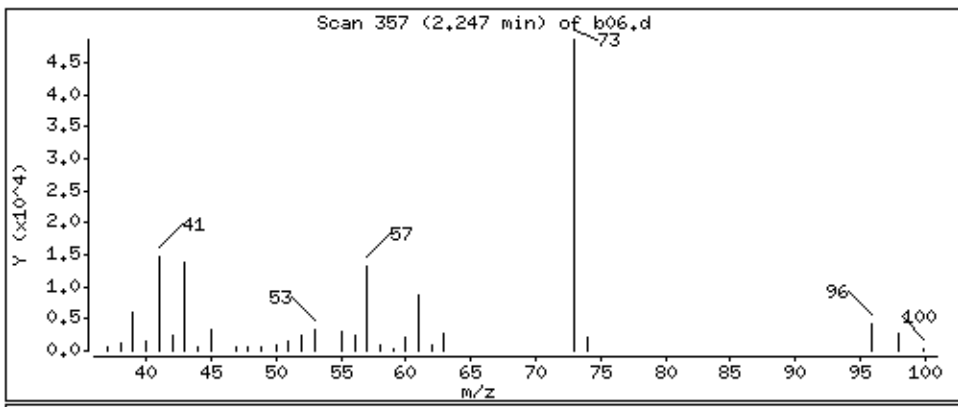
Operator: TMW

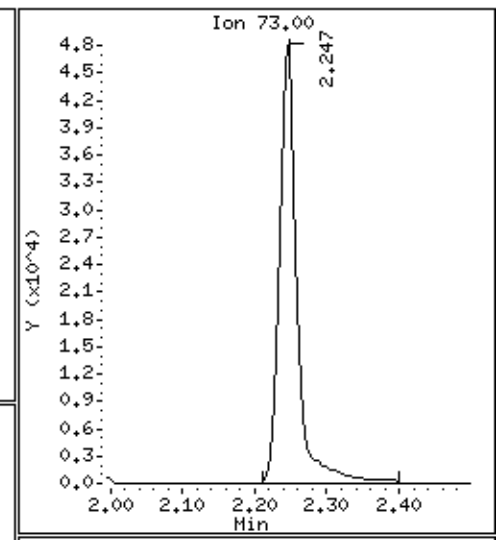
Column phase: DB-624

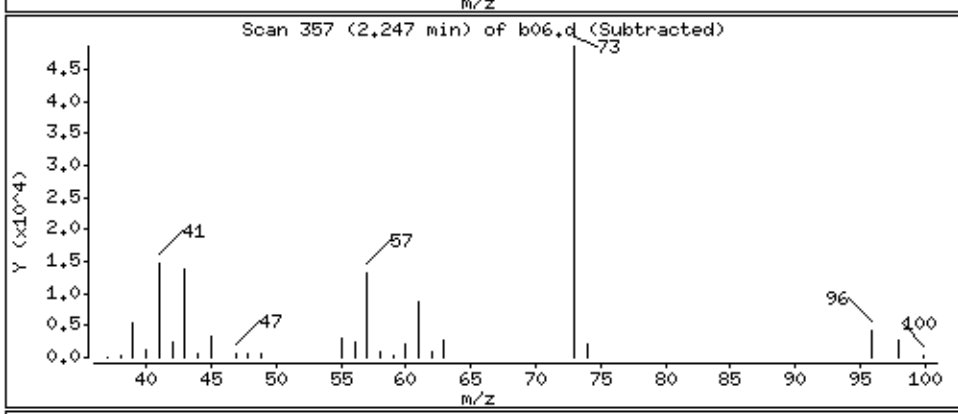
Column diameter: 0.18

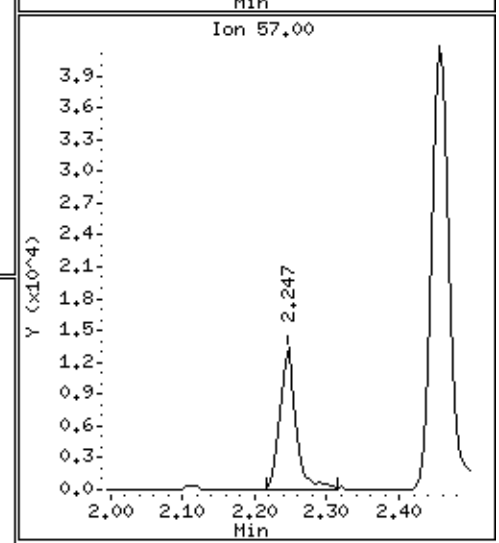
21 Methyl-tert-butyl ether

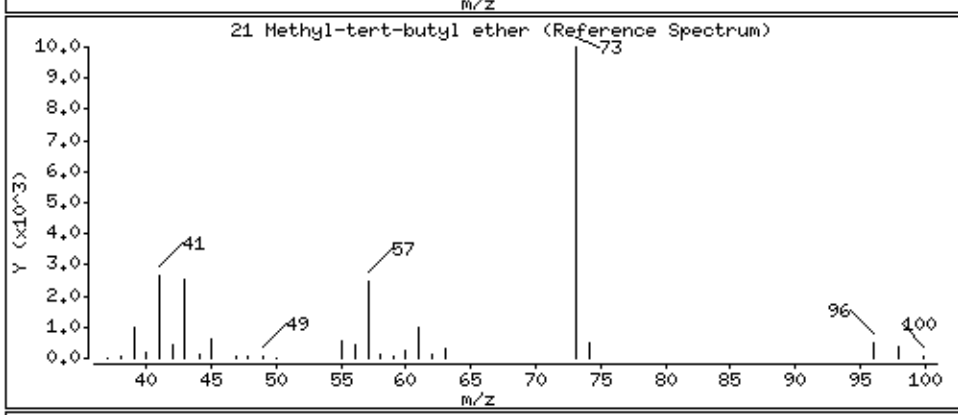
Concentration: 61.8 ppb

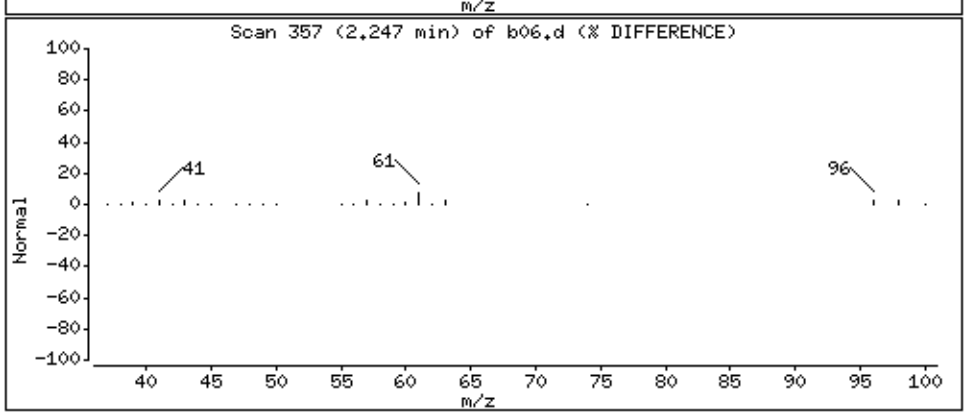












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

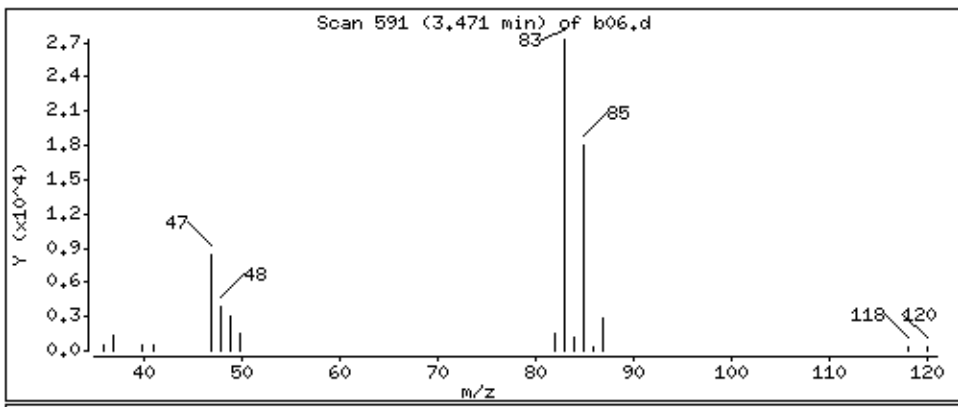
Operator: TMW

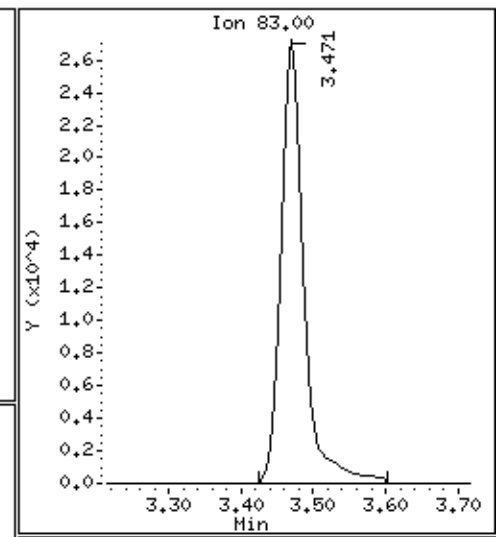
Column phase: DB-624

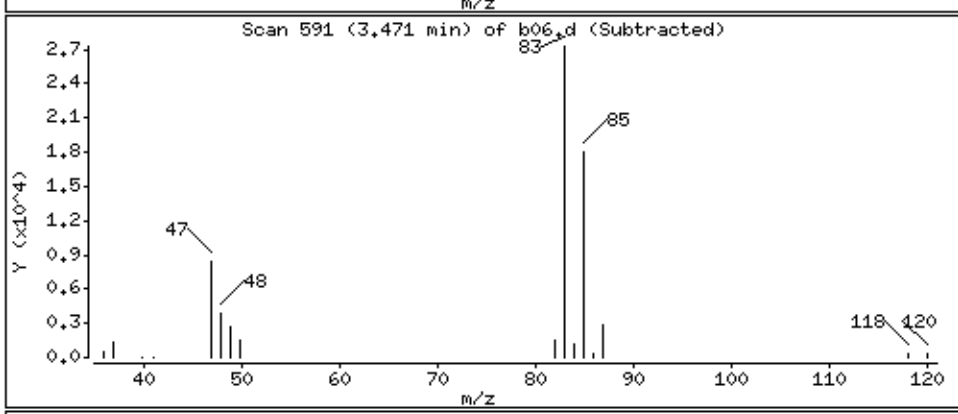
Column diameter: 0.18

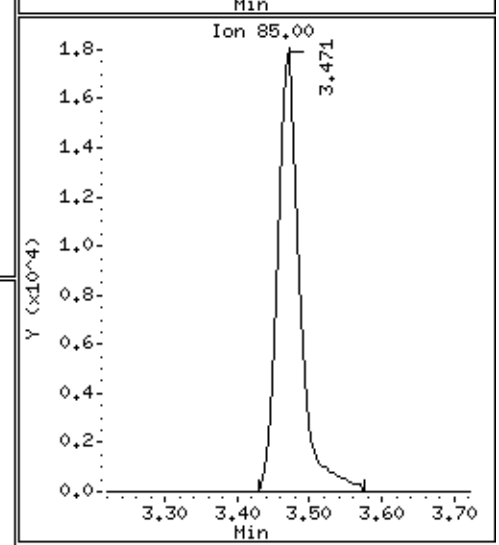
34 Chloroform

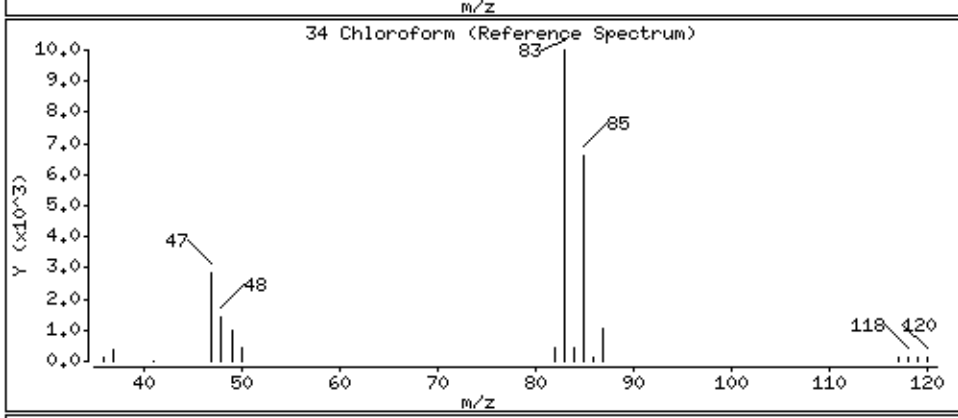
Concentration: 62.3 ppb

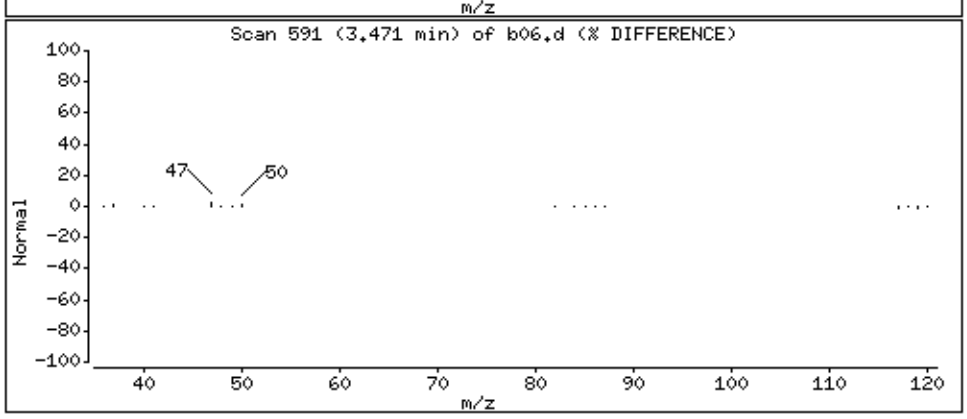












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

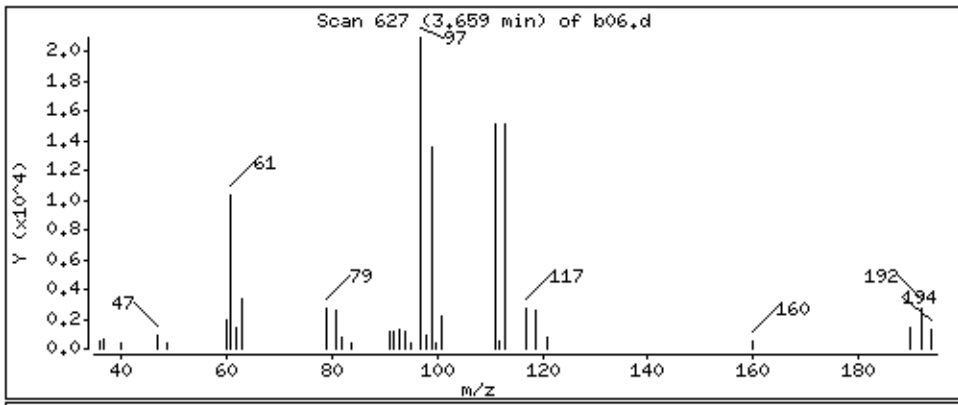
Operator: TMW

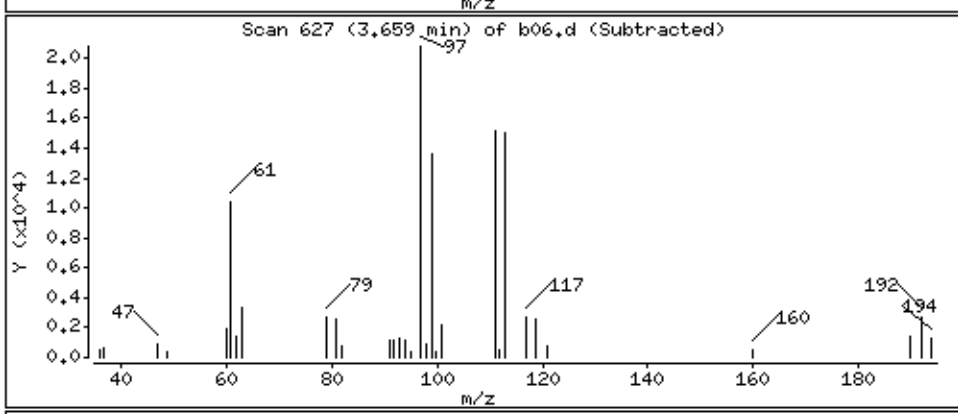
Column phase: DB-624

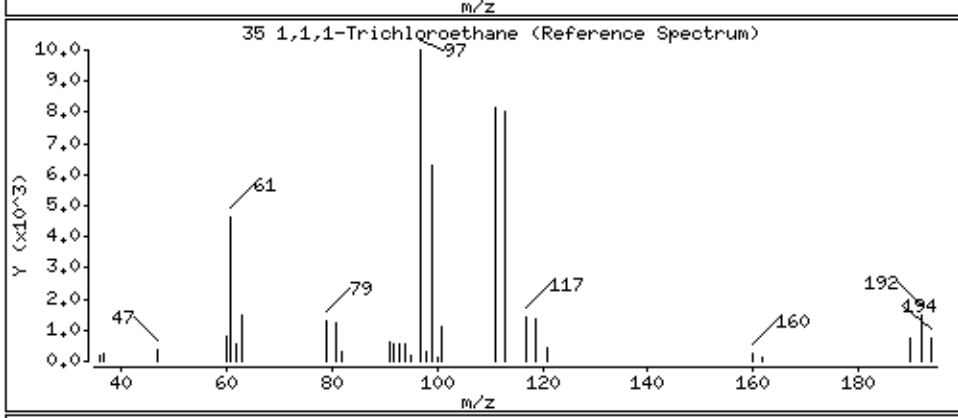
Column diameter: 0.18

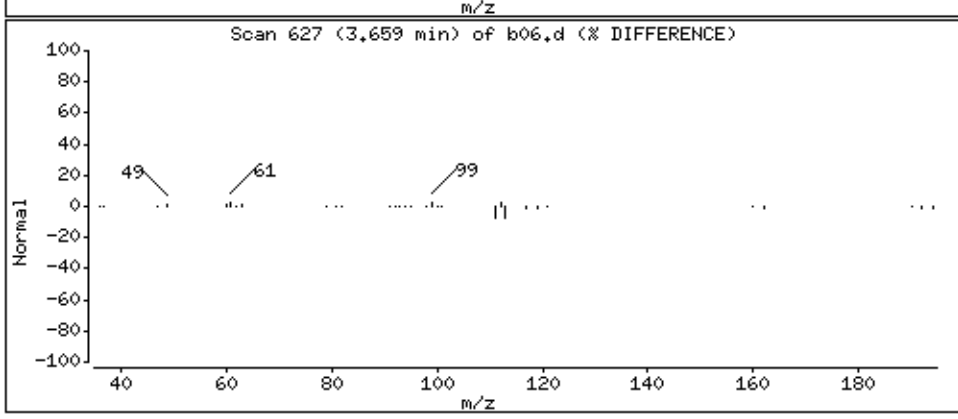
35 1,1,1-Trichloroethane

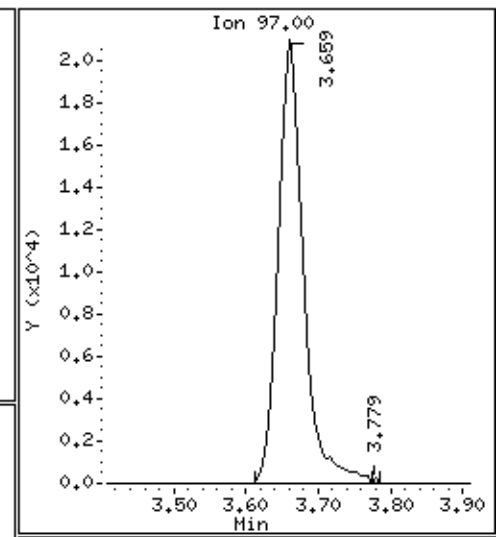
Concentration: 63.6 ppb

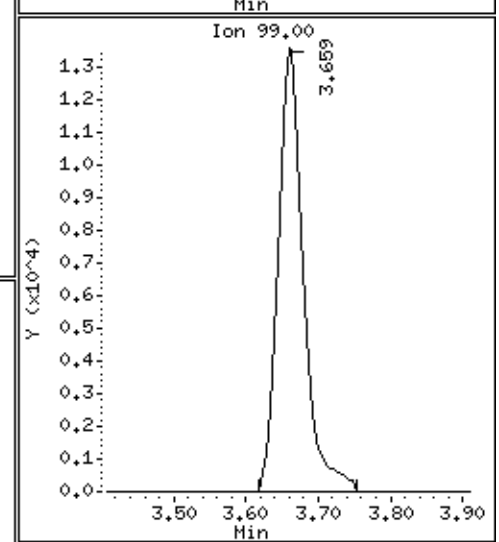


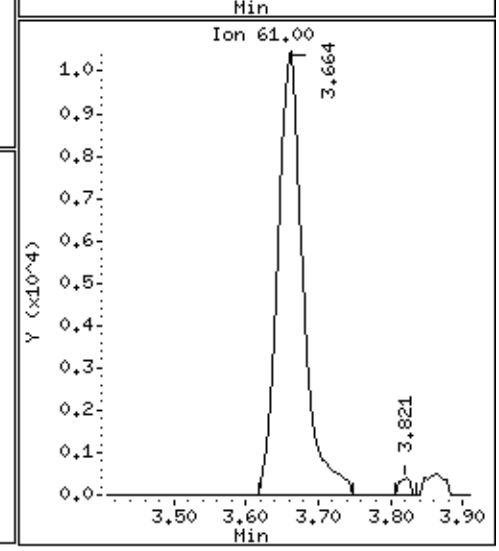












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

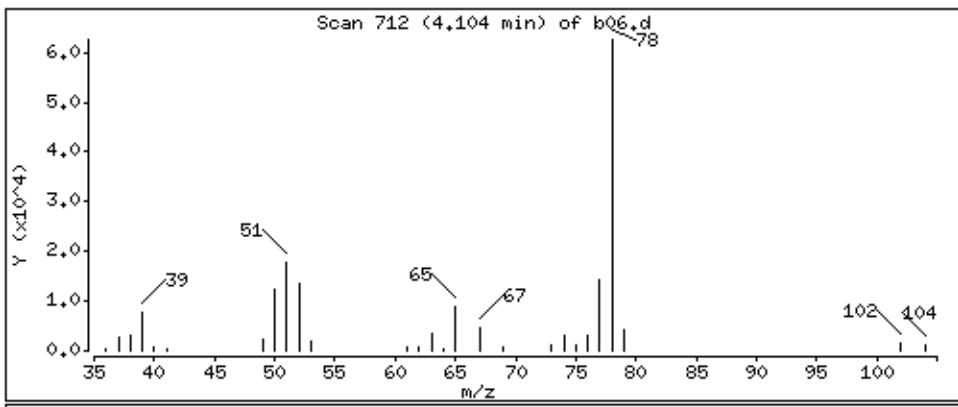
Operator: TMW

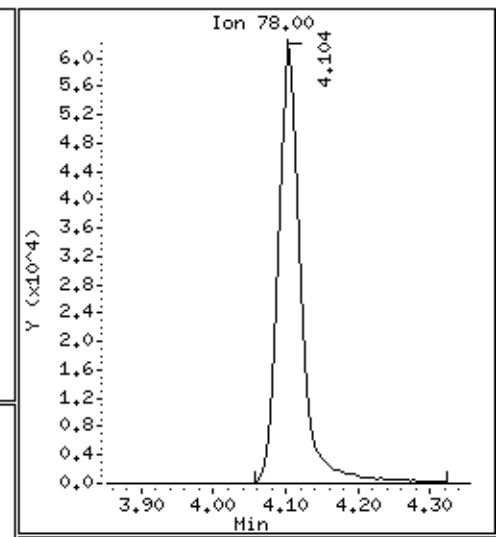
Column phase: DB-624

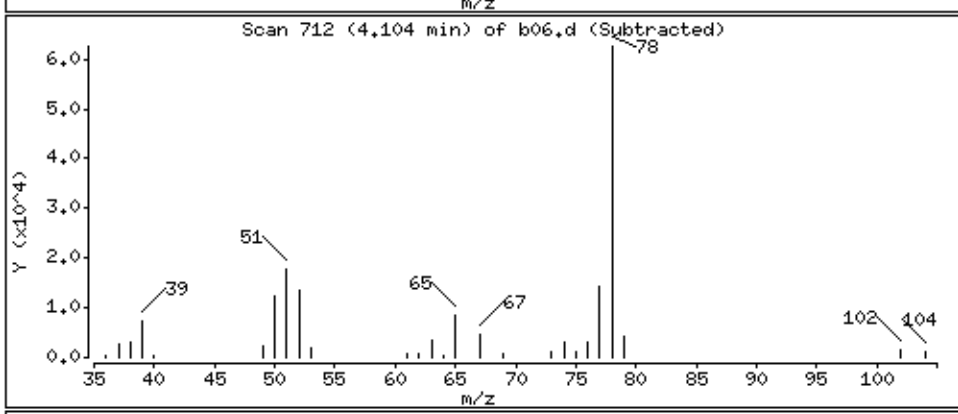
Column diameter: 0.18

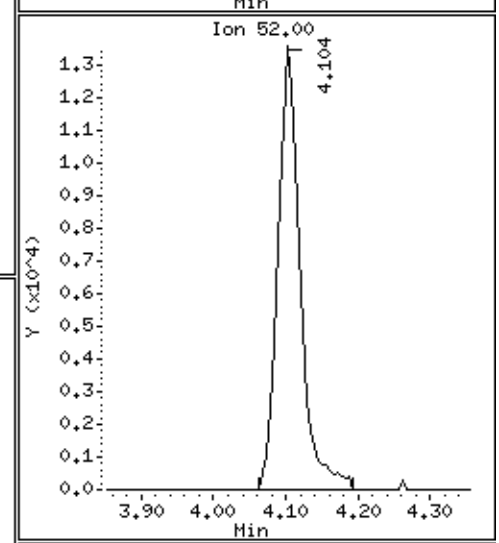
41 Benzene

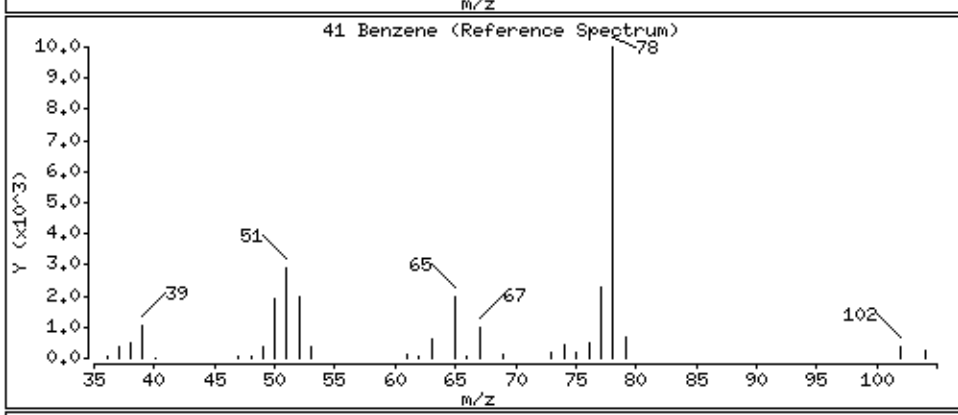
Concentration: 61.9 ppb

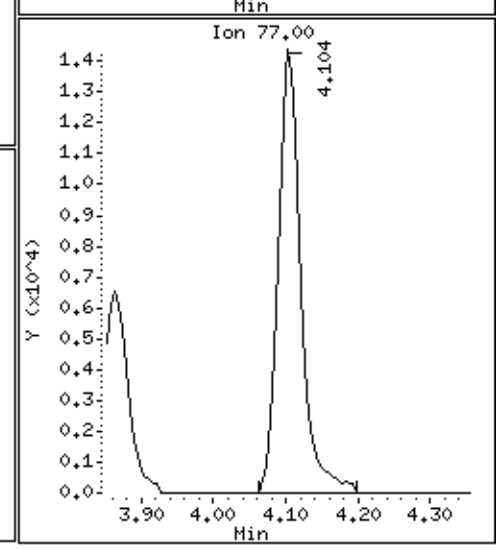


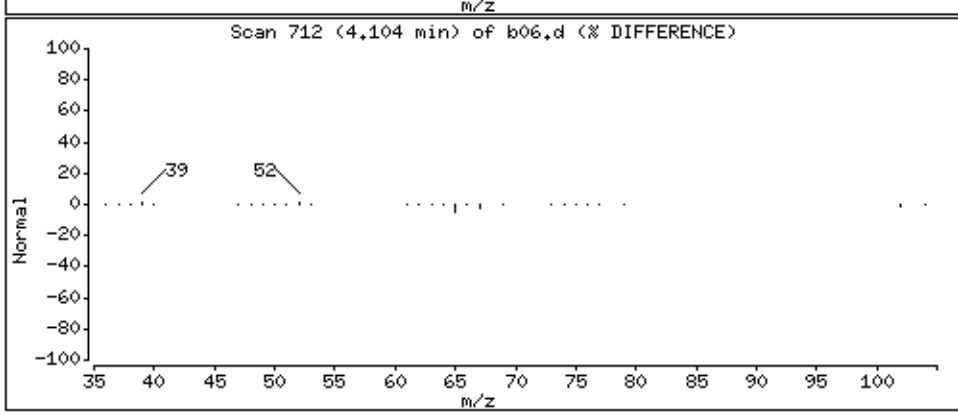












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

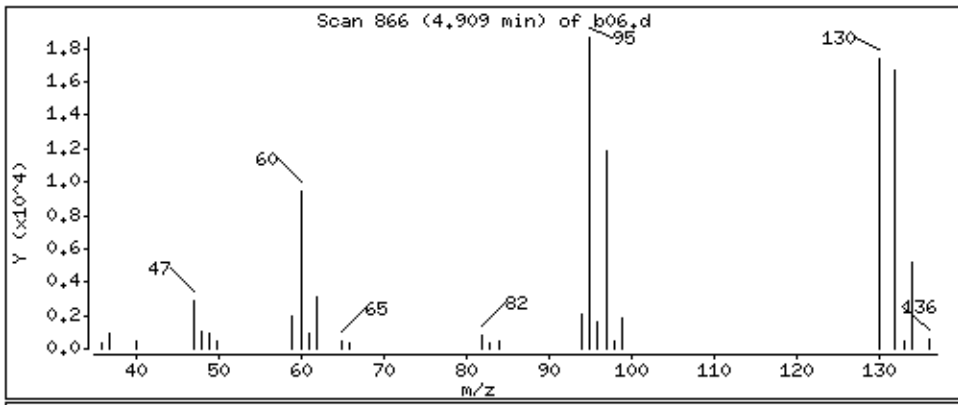
Operator: TMW

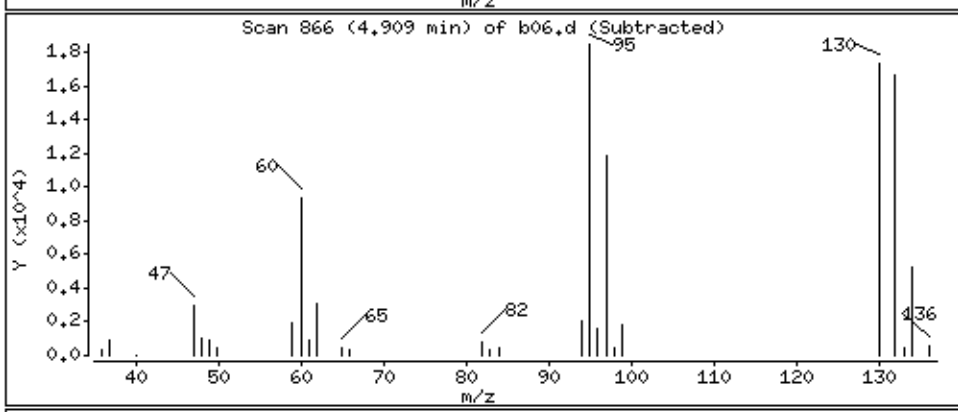
Column phase: DB-624

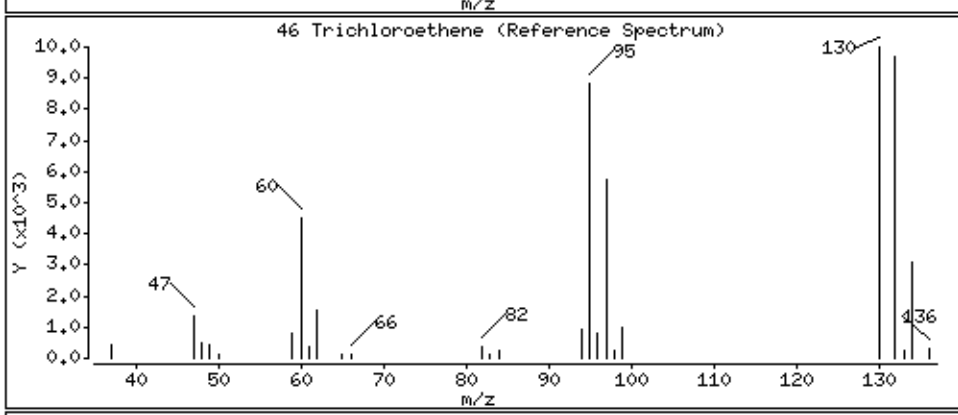
Column diameter: 0.18

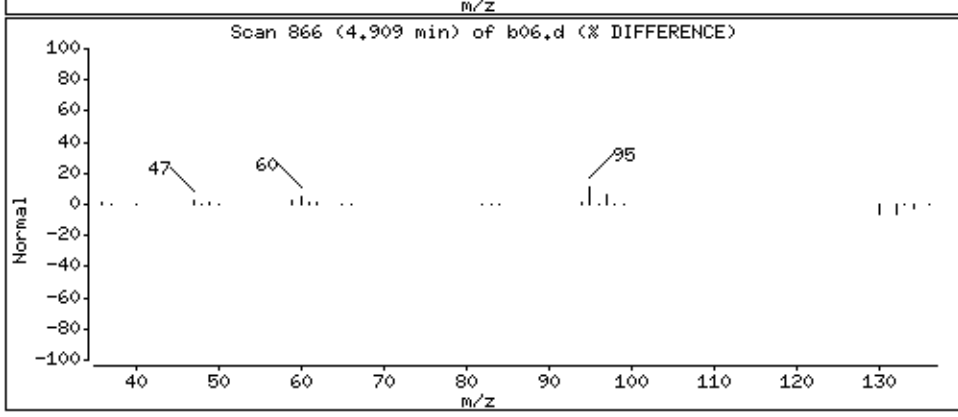
46 Trichloroethene

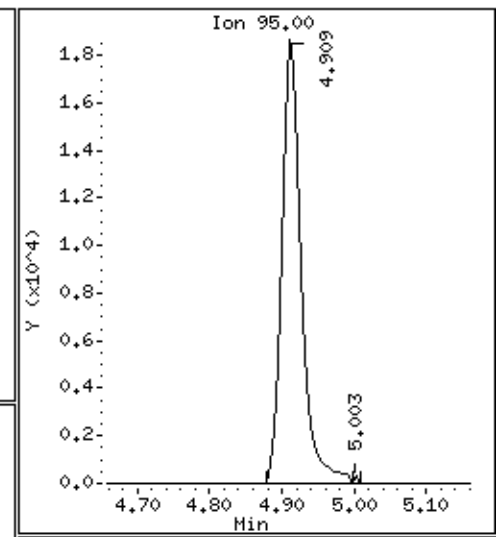
Concentration: 60.9 ppb

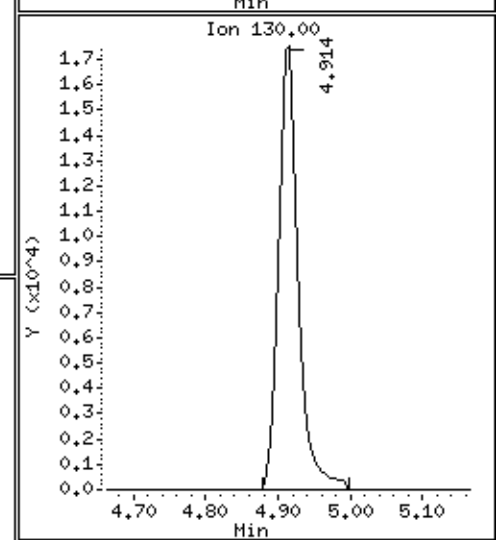


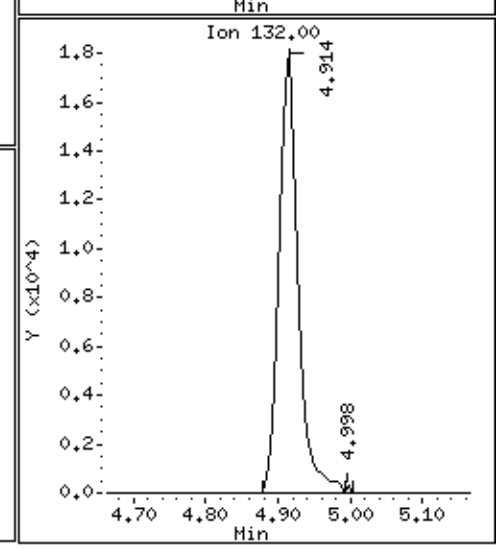












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

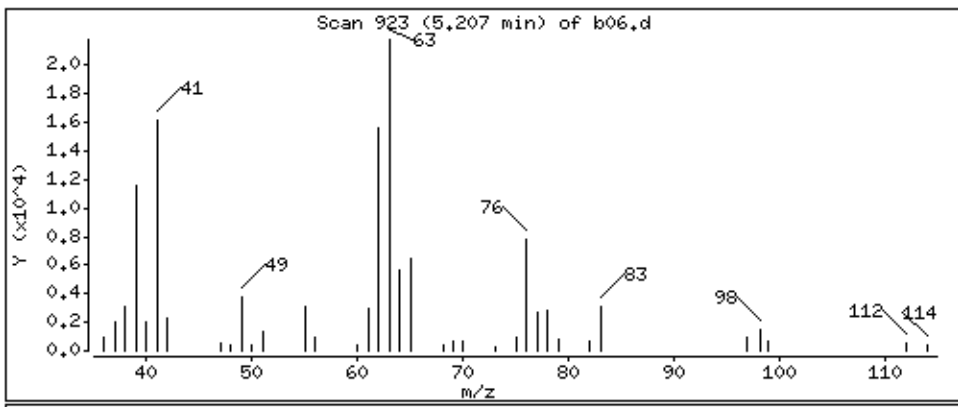
Operator: TMW

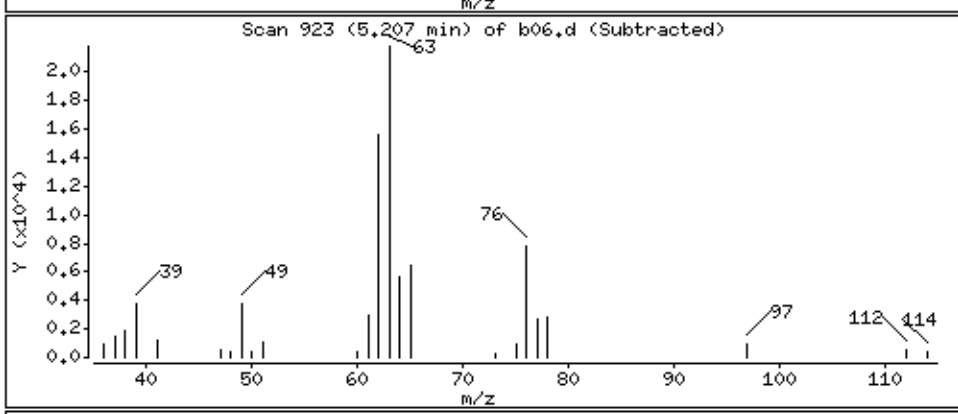
Column phase: DB-624

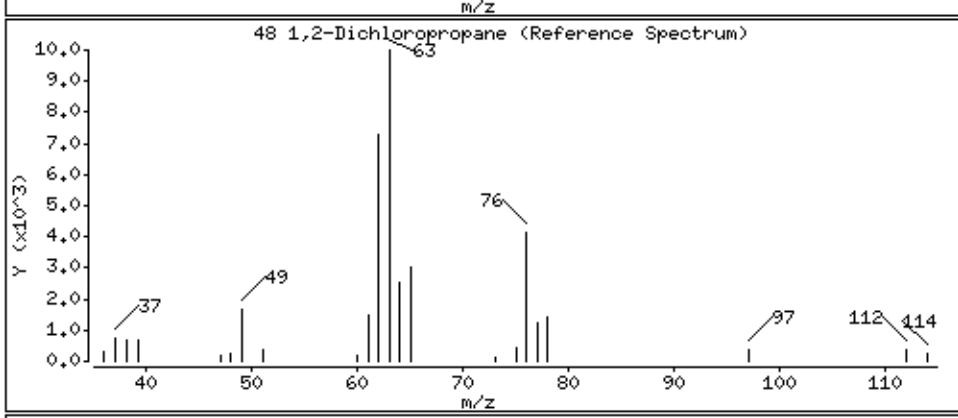
Column diameter: 0.18

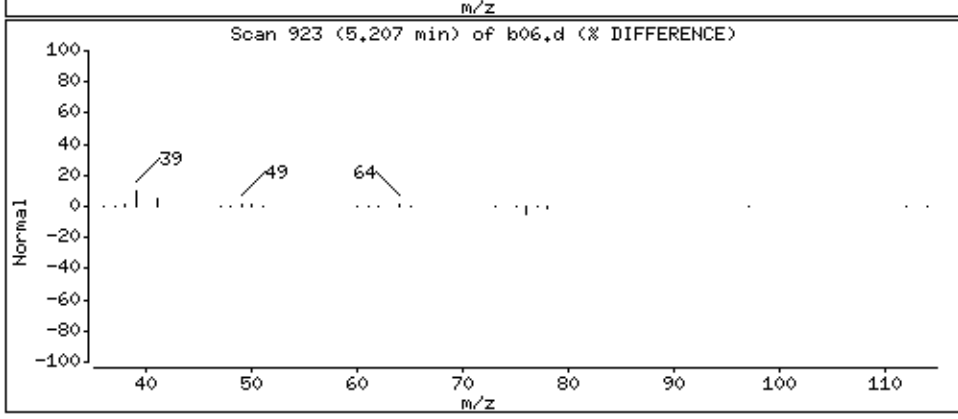
48 1,2-Dichloropropane

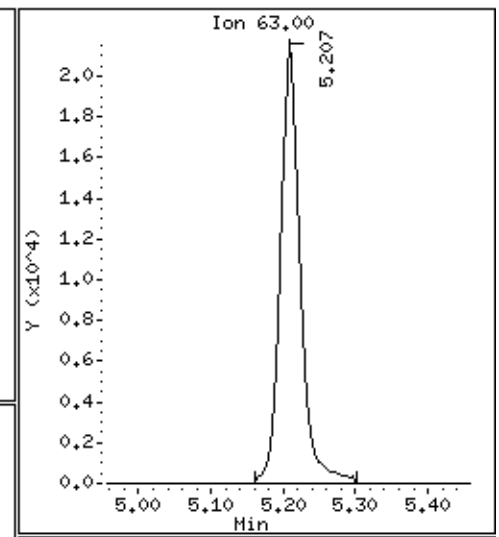
Concentration: 65.6 ppb

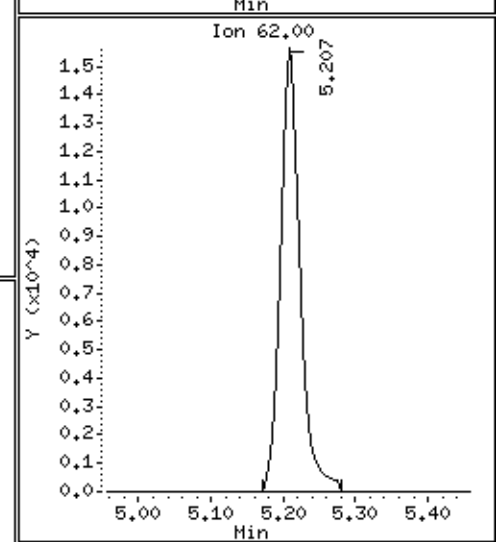


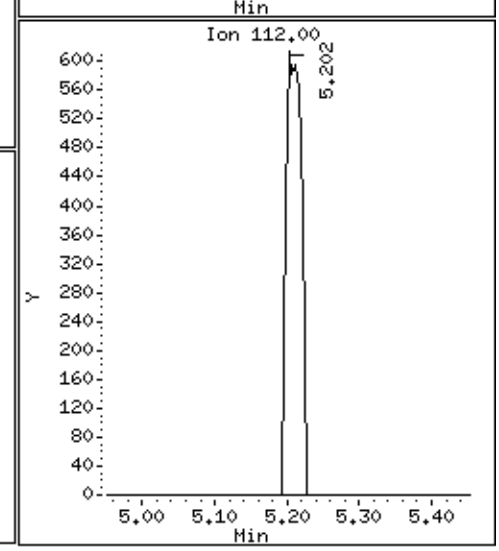












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

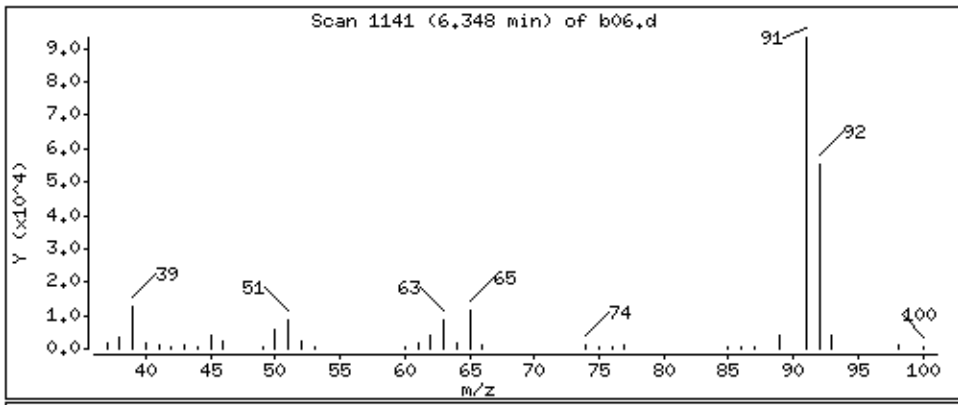
Operator: TMW

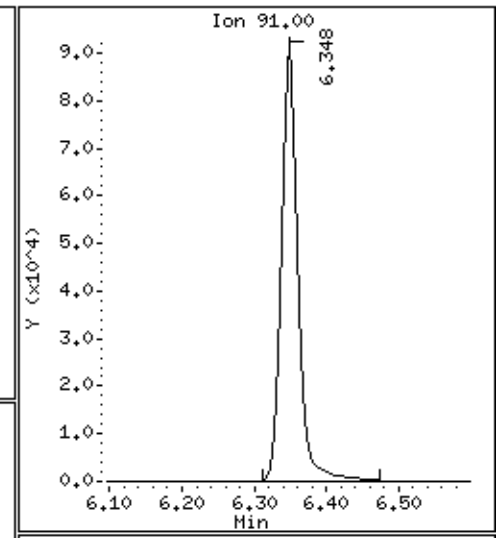
Column phase: DB-624

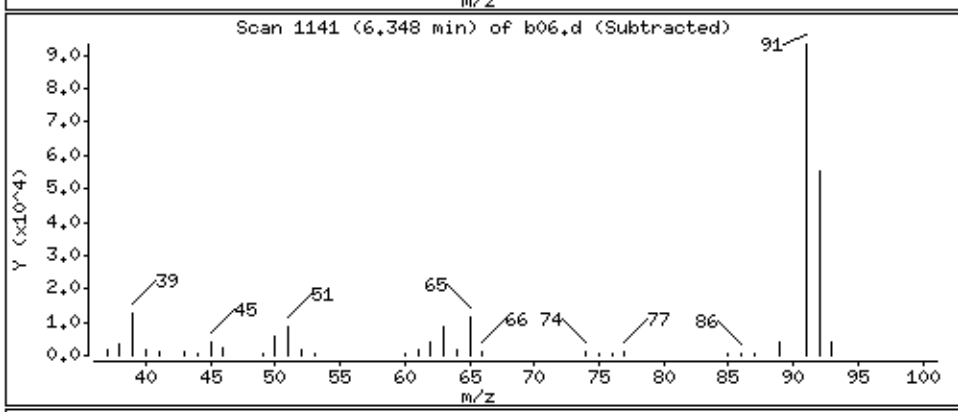
Column diameter: 0.18

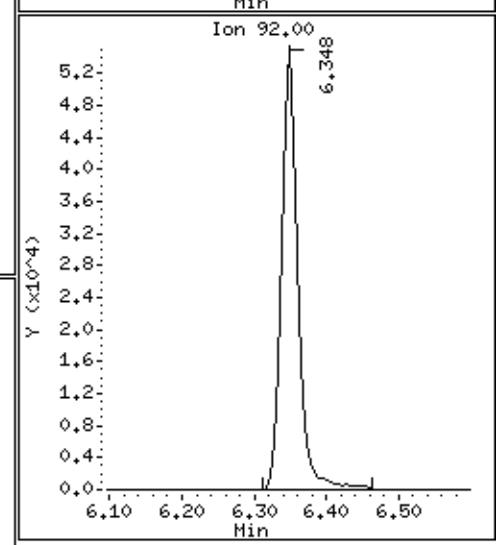
57 Toluene

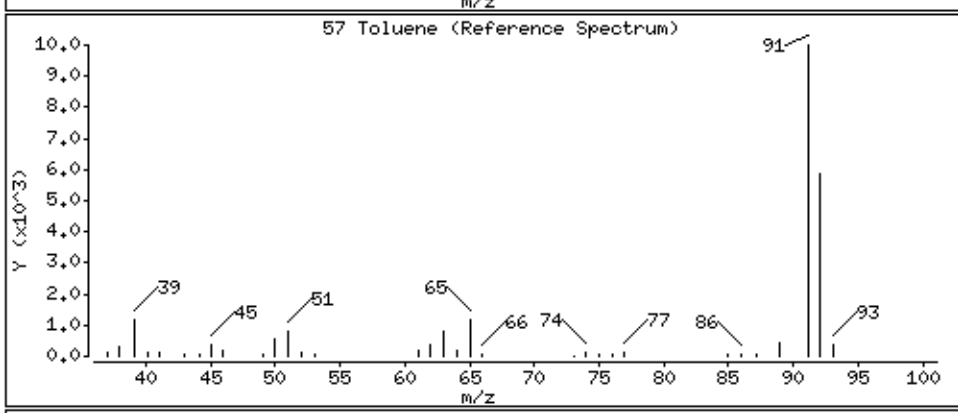
Concentration: 64.6 ppb

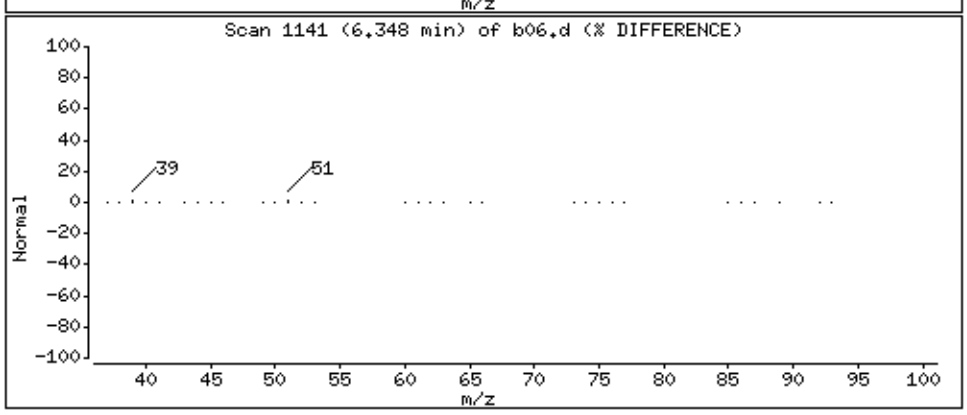












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

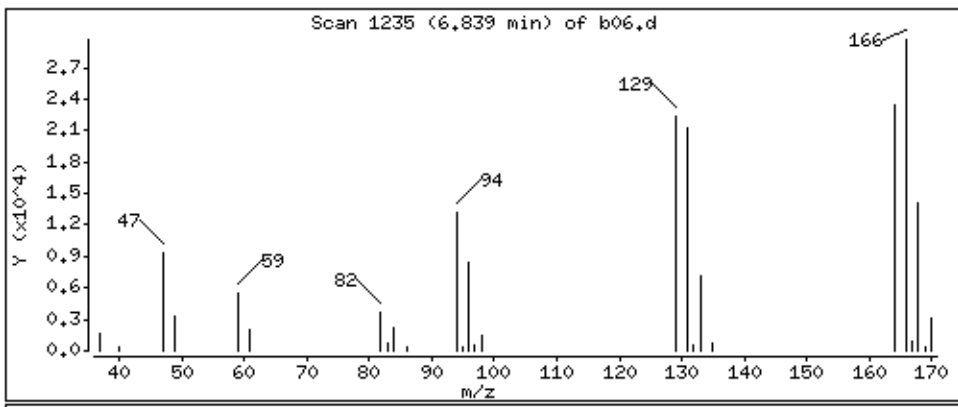
Operator: TMW

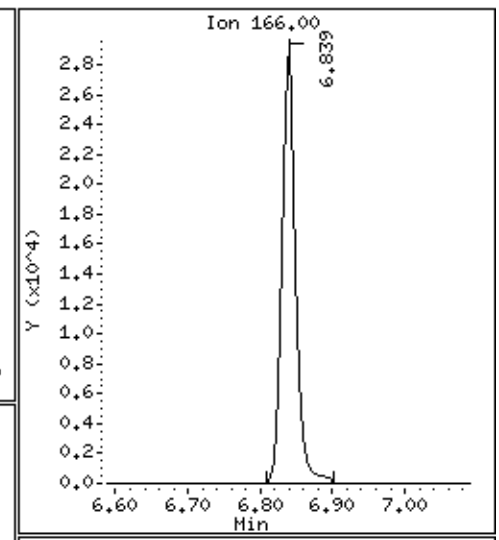
Column phase: DB-624

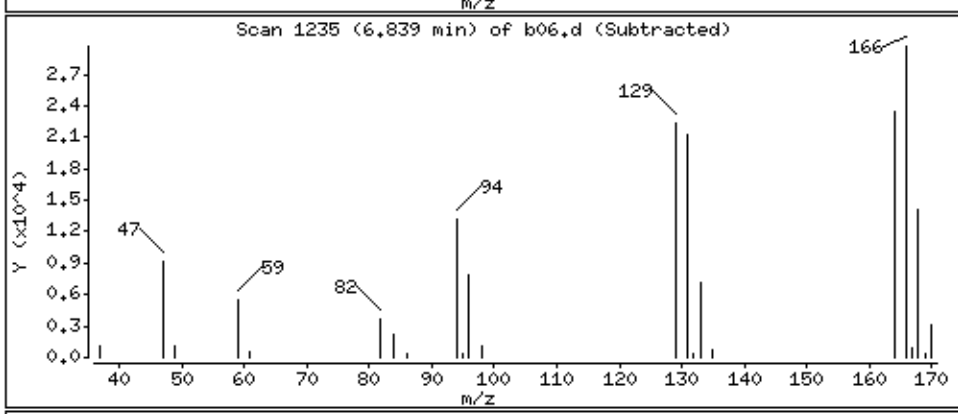
Column diameter: 0.18

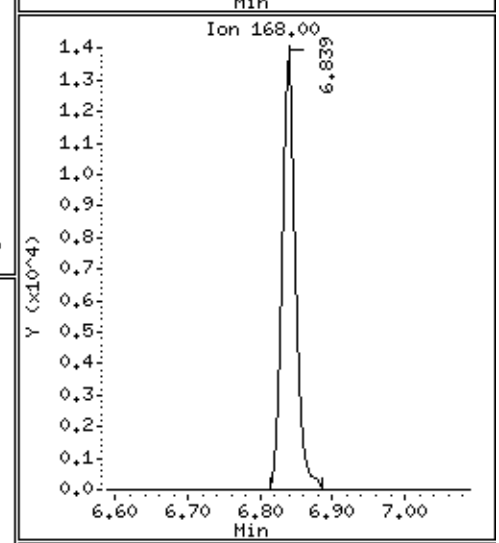
61 Tetrachloroethene

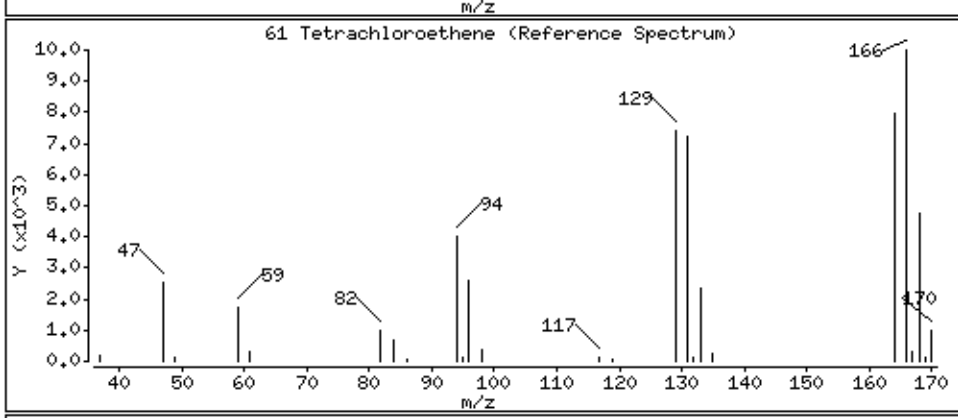
Concentration: 66.2 ppb

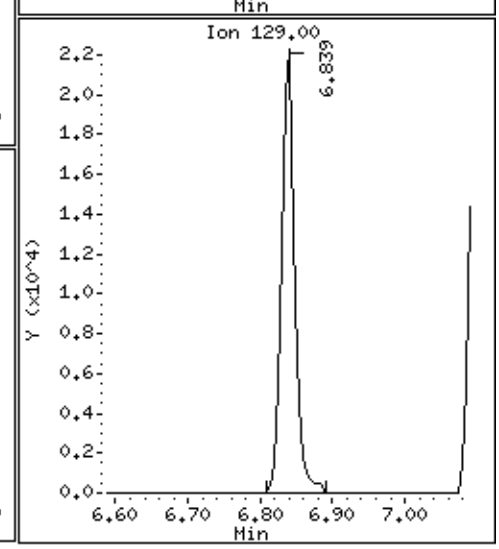


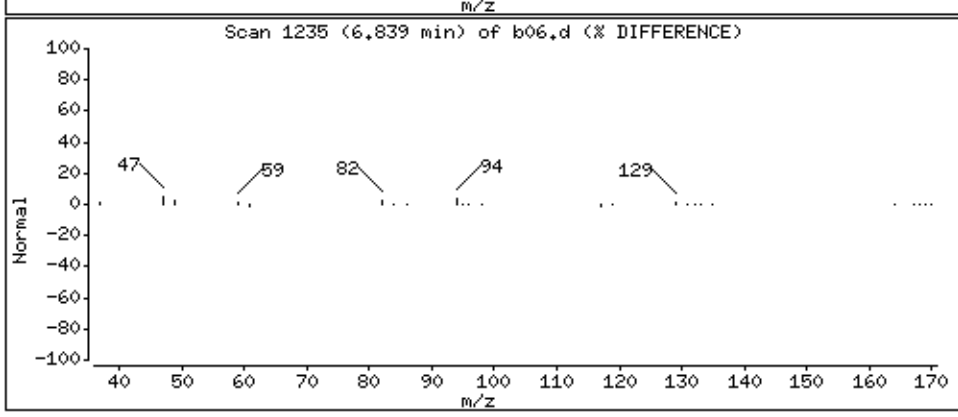












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

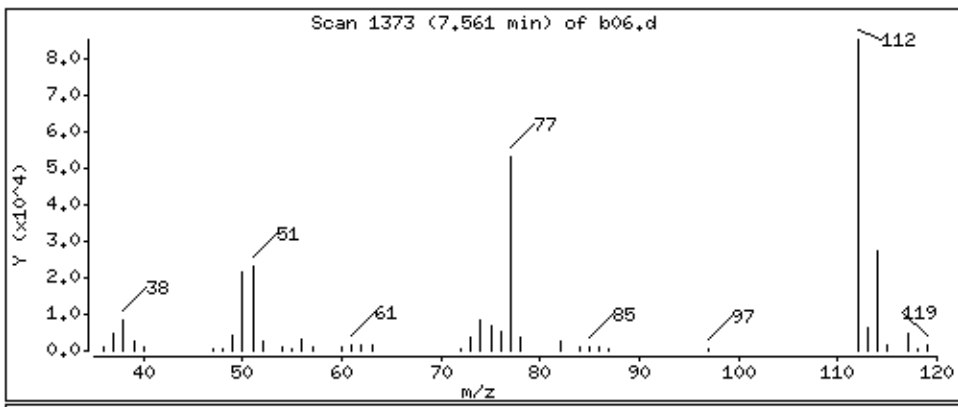
Operator: TMW

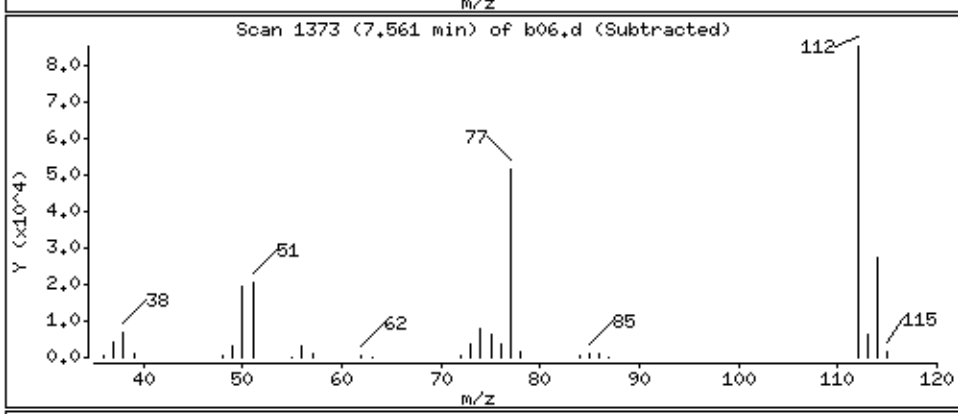
Column phase: DB-624

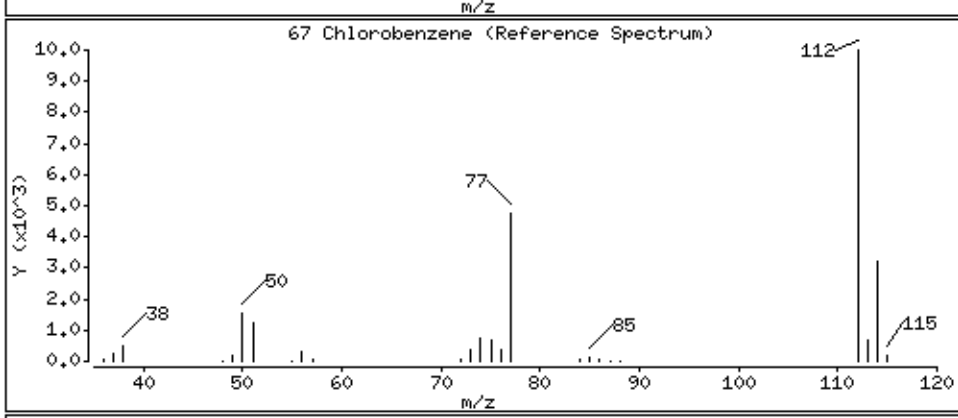
Column diameter: 0.18

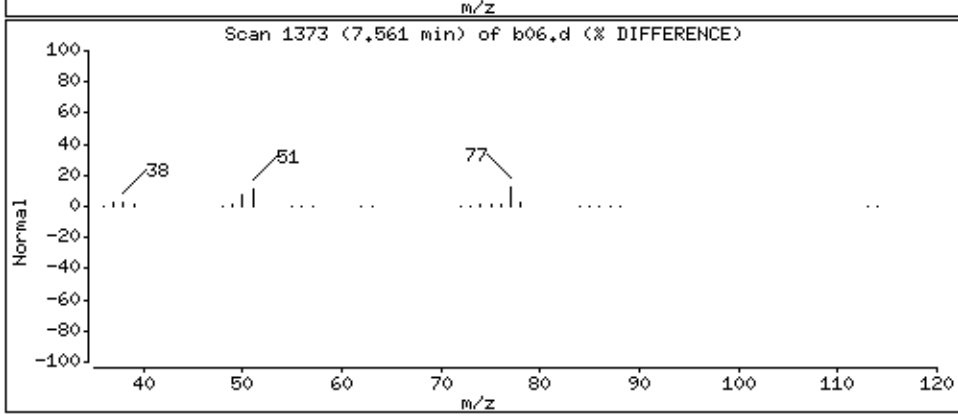
67 Chlorobenzene

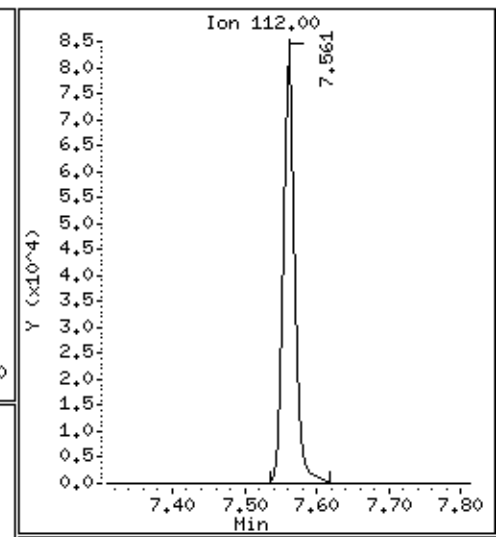
Concentration: 61.2 ppb

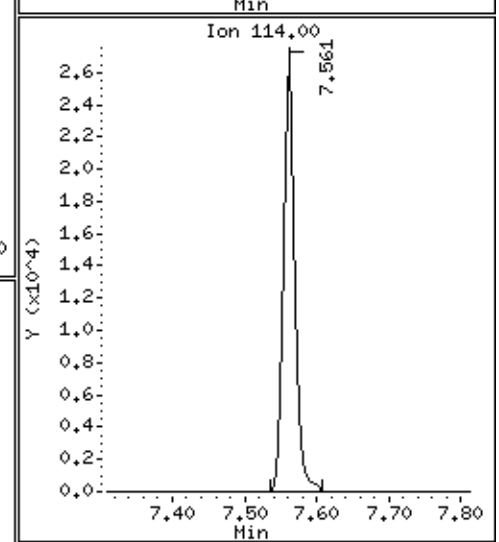


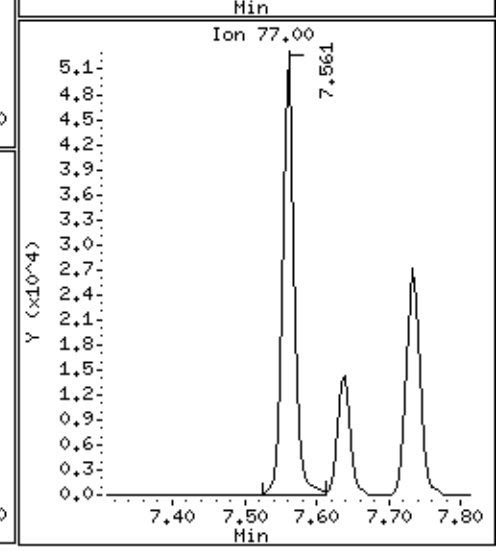












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

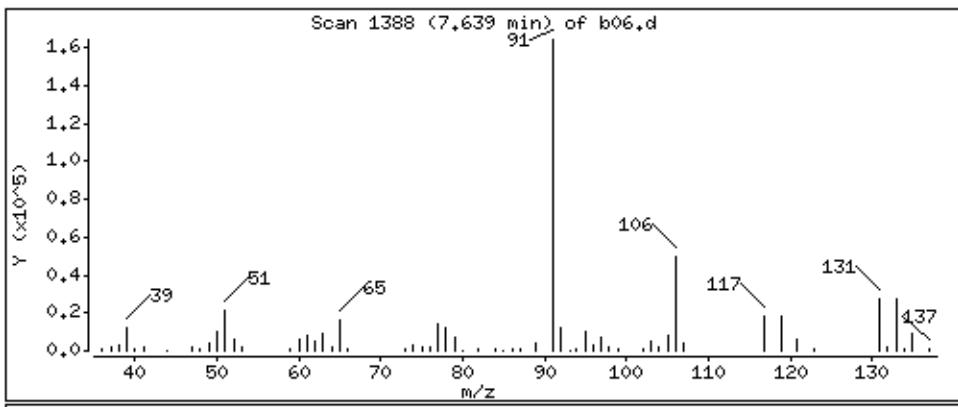
Operator: TMW

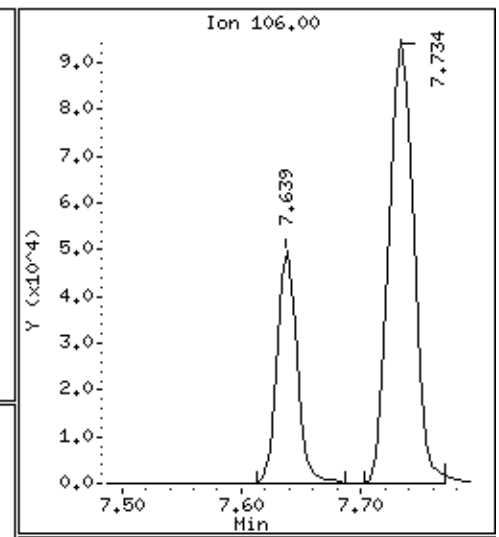
Column phase: DB-624

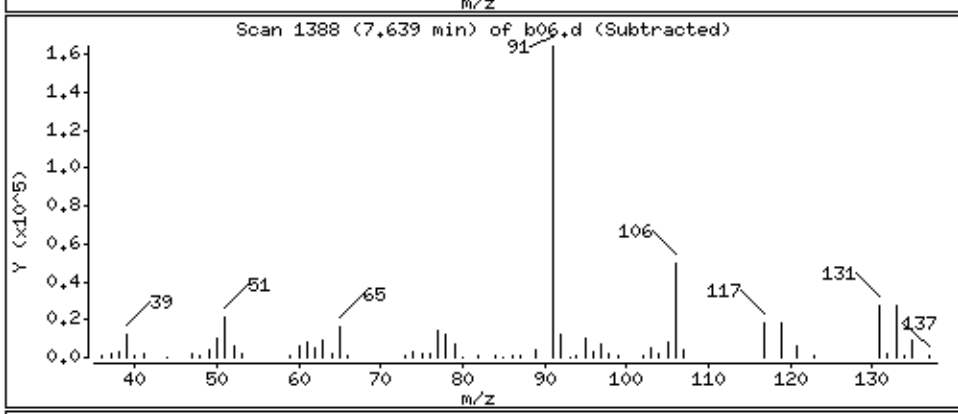
Column diameter: 0.18

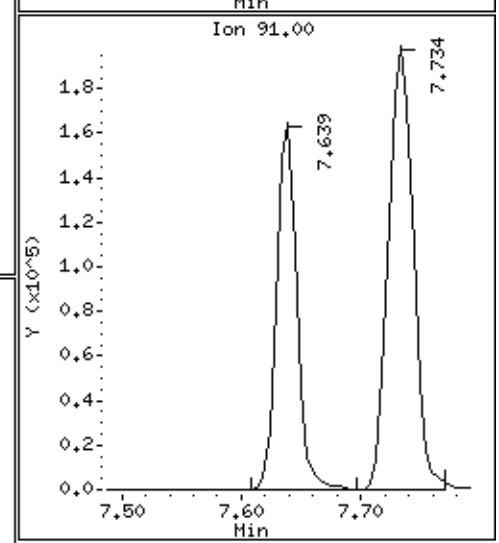
69 Ethylbenzene

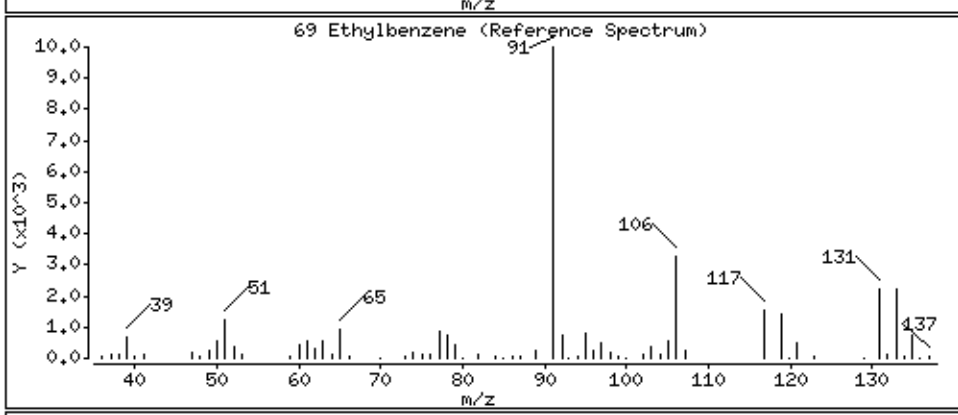
Concentration: 65.3 ppb

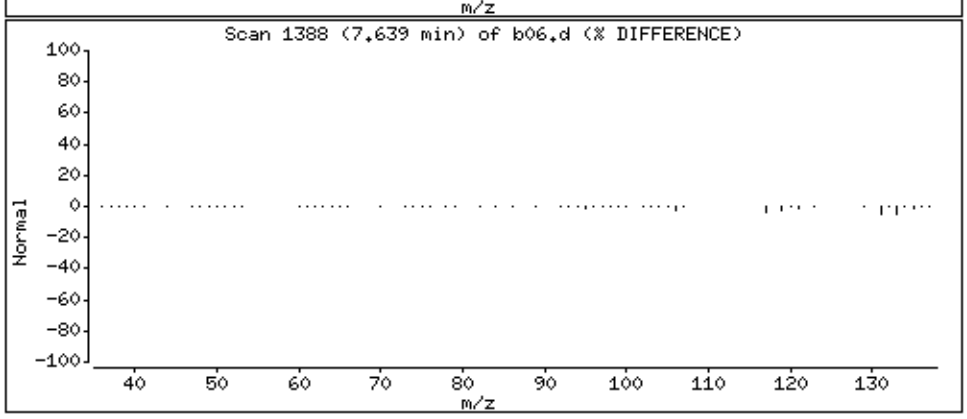












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Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

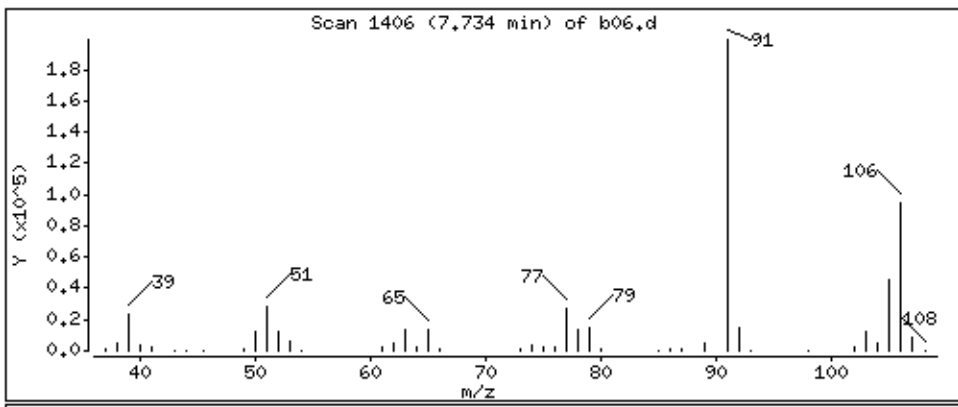
Operator: TMW

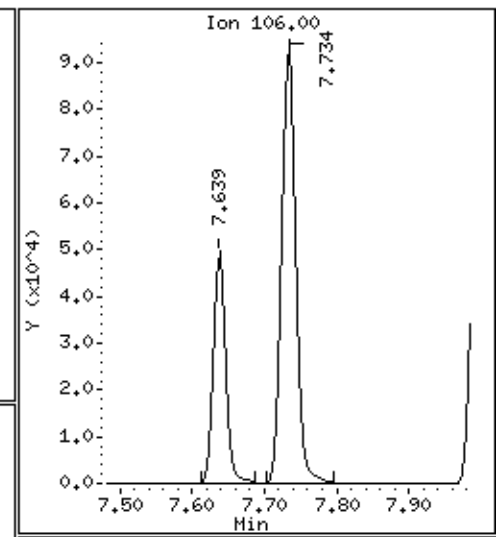
Column phase: DB-624

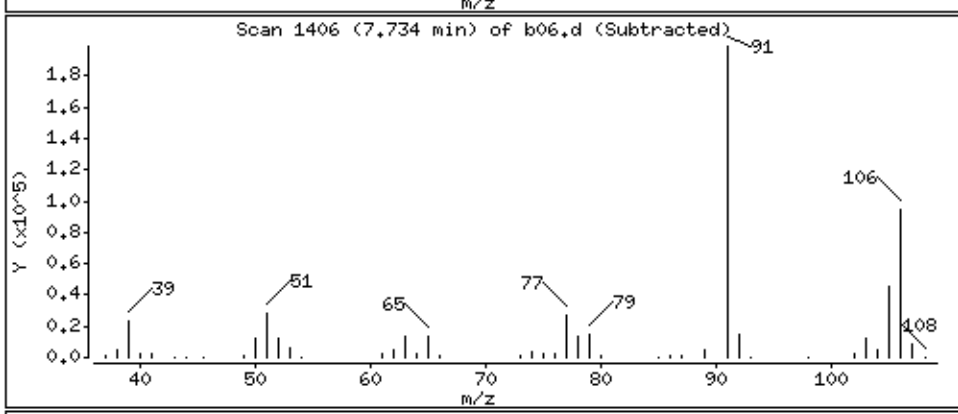
Column diameter: 0.18

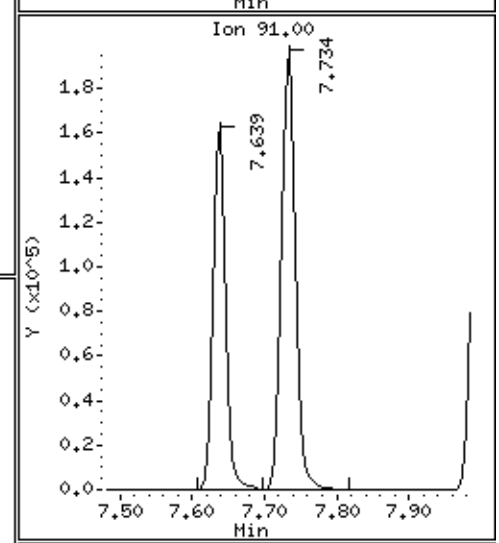
70 m&p-Xylene

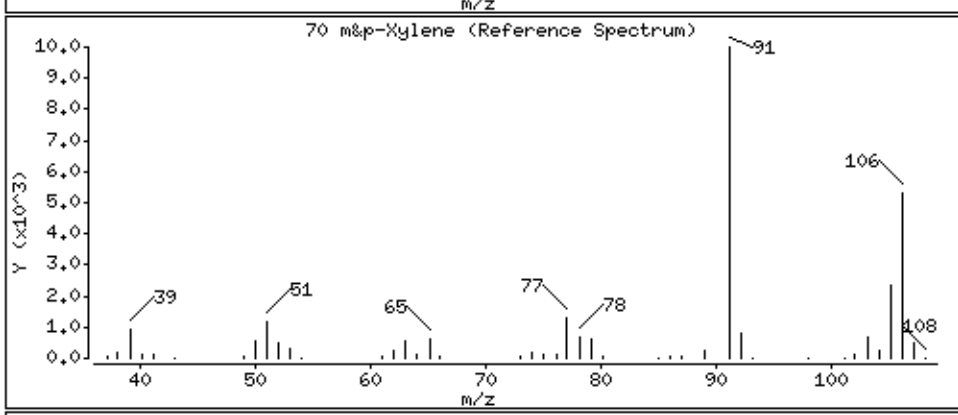
Concentration: 124 ppb

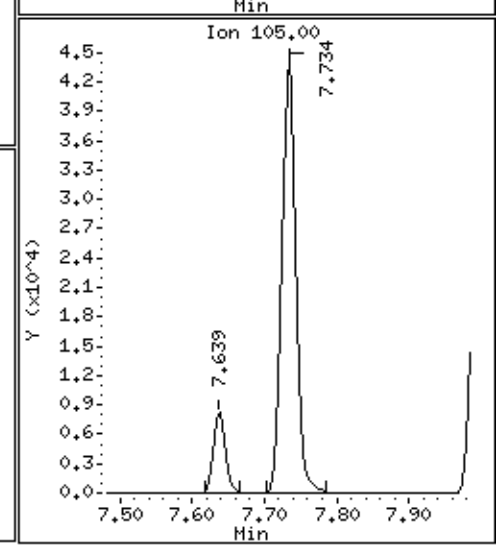


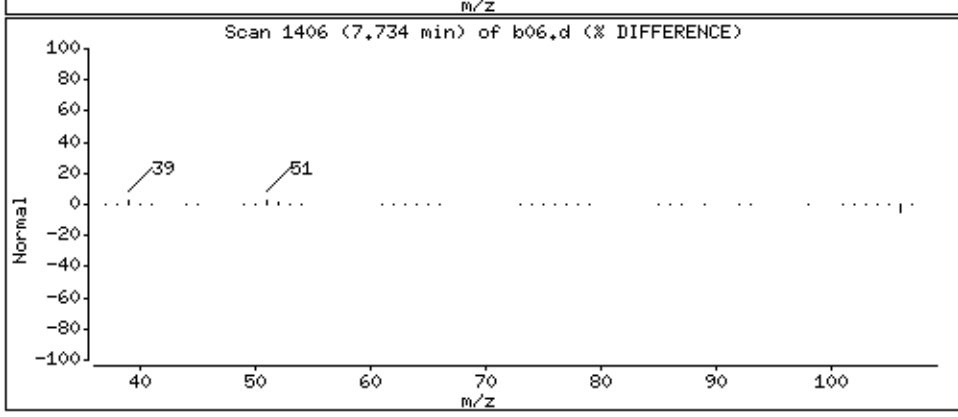












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

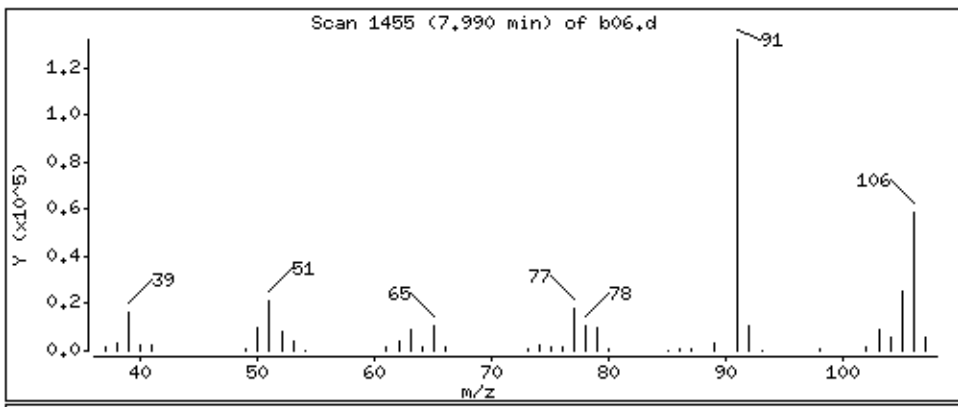
Operator: TMW

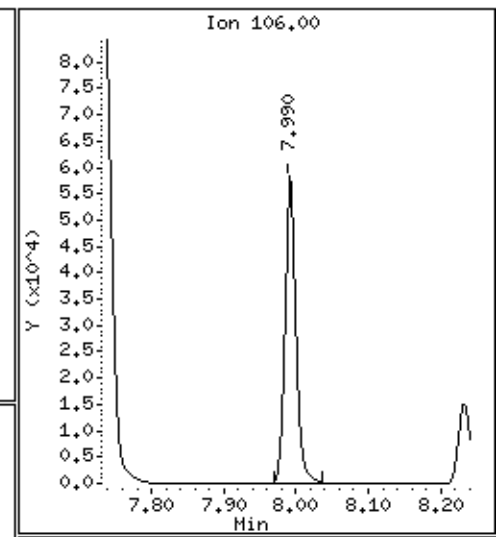
Column phase: DB-624

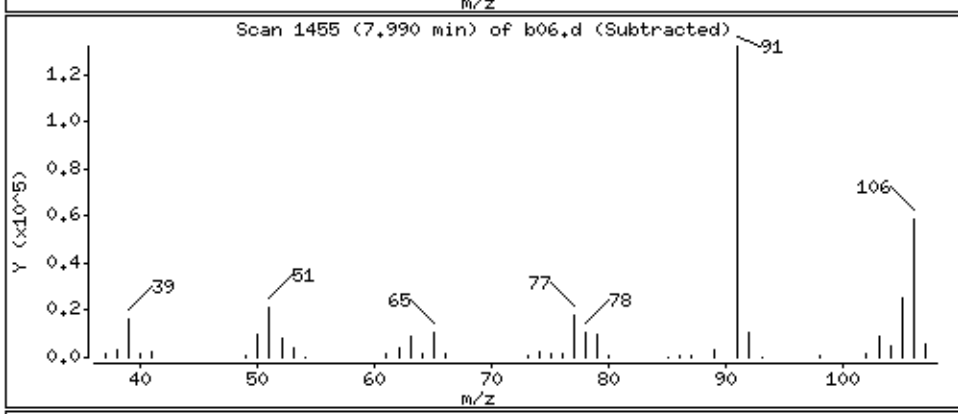
Column diameter: 0.18

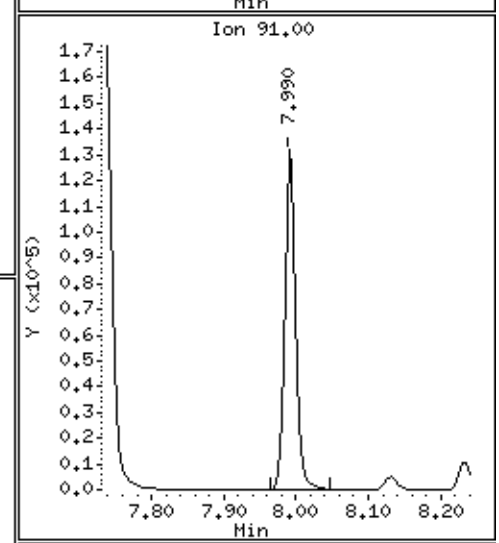
71 o-Xylene

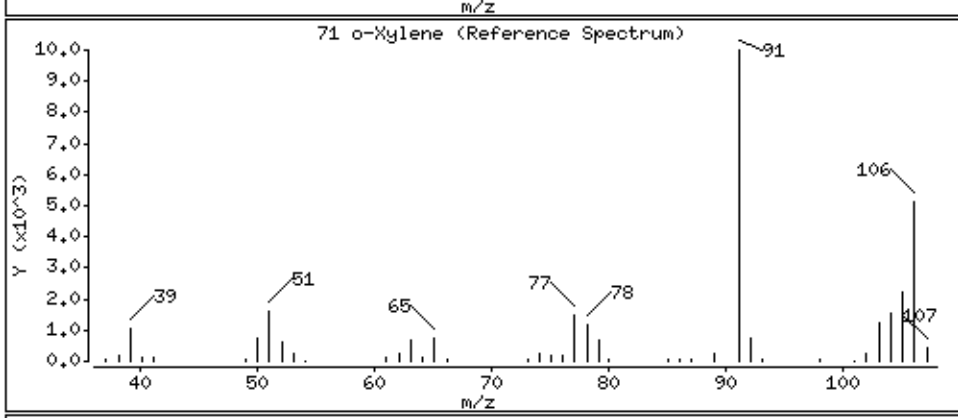
Concentration: 61.2 ppb

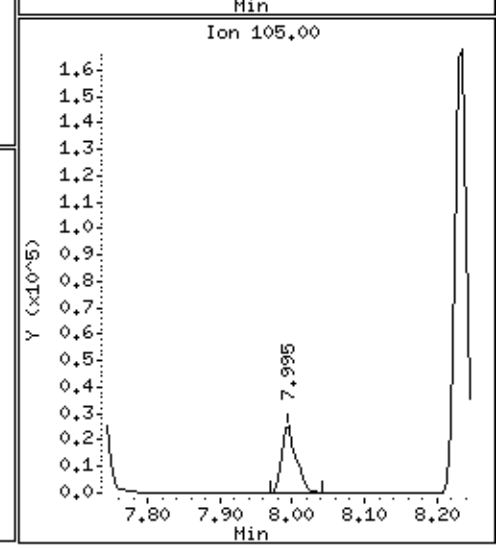


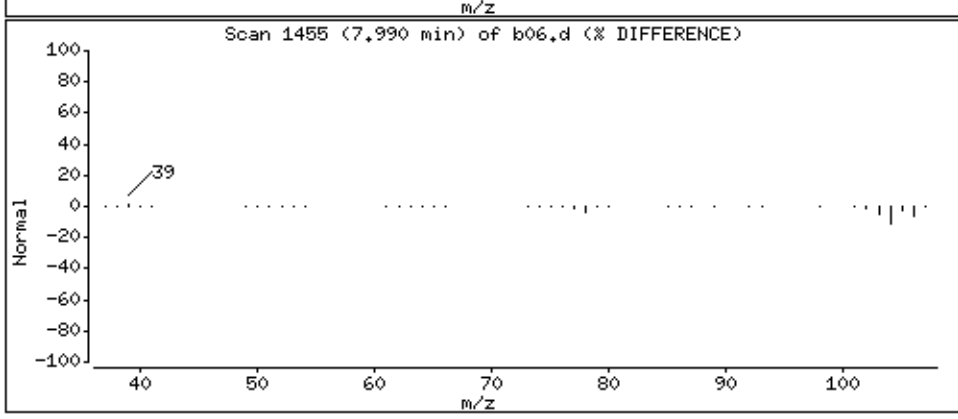












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

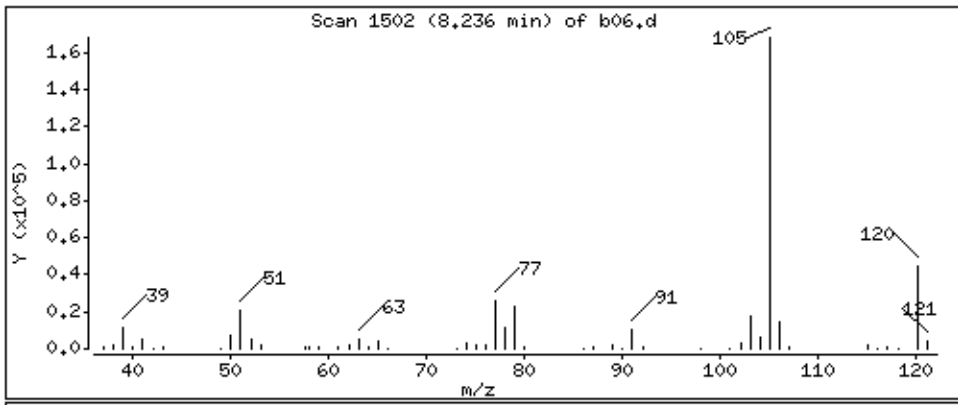
Operator: TMW

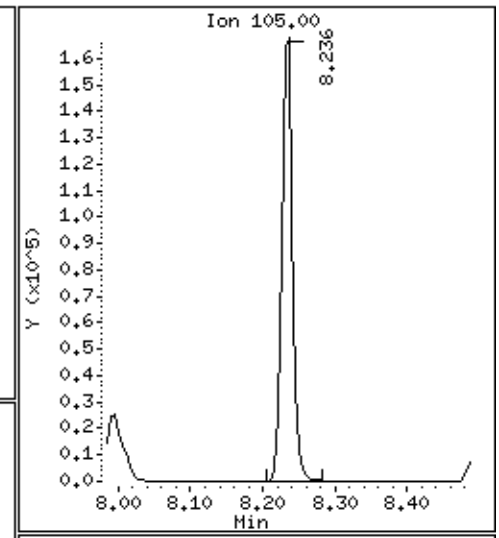
Column phase: DB-624

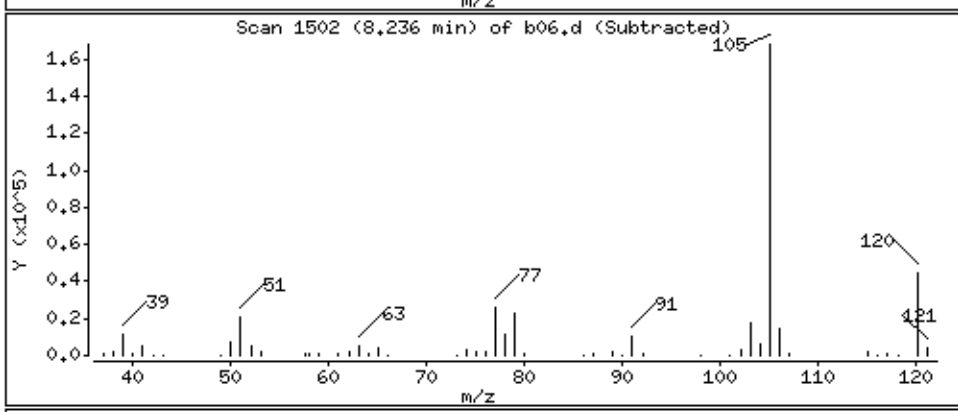
Column diameter: 0.18

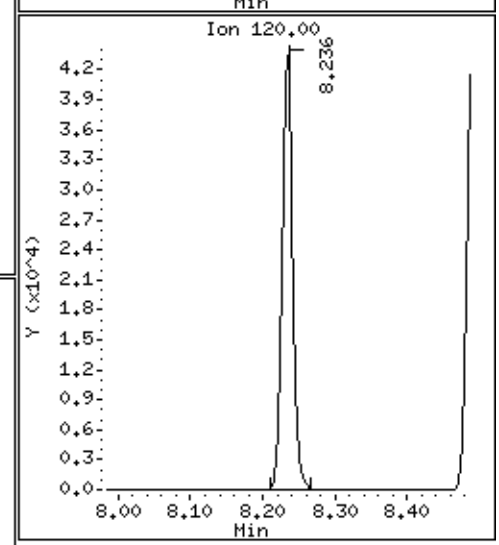
74 Isopropylbenzene

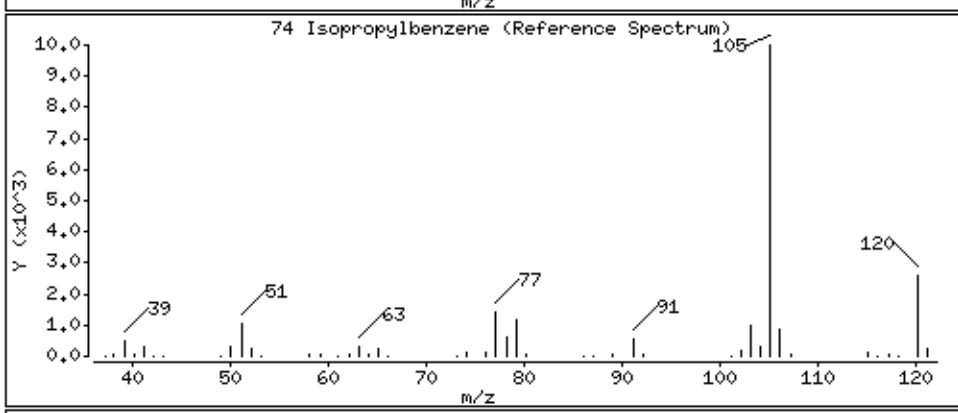
Concentration: 61.8 ppb

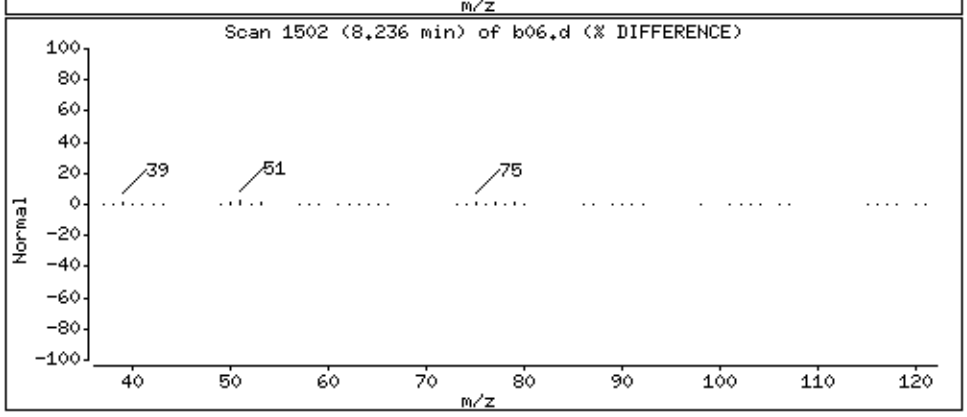












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

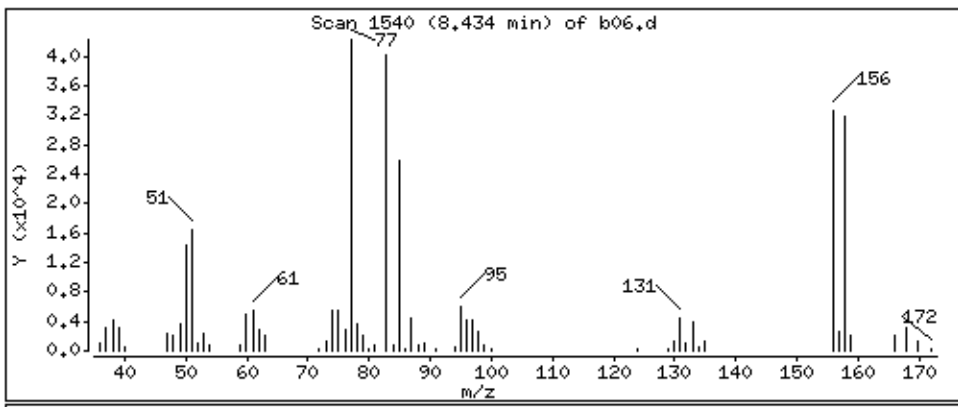
Operator: TMW

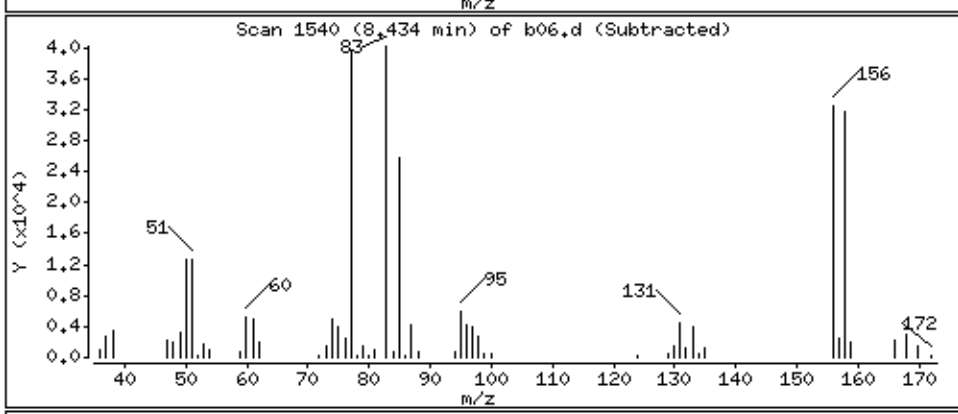
Column phase: DB-624

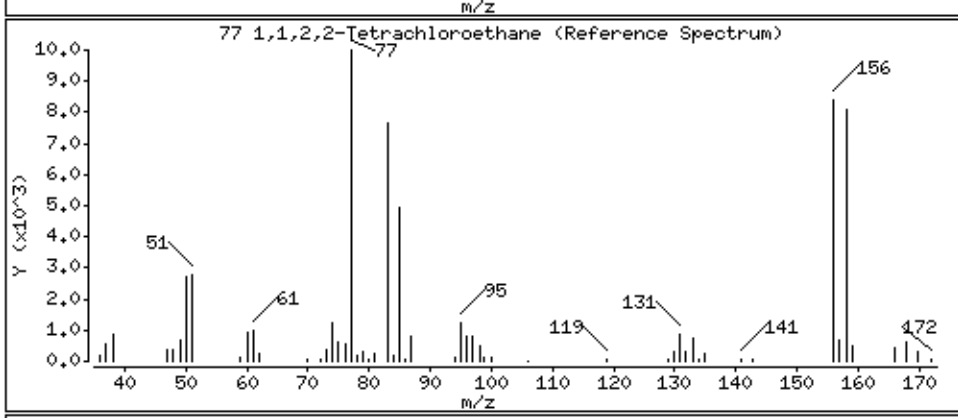
Column diameter: 0.18

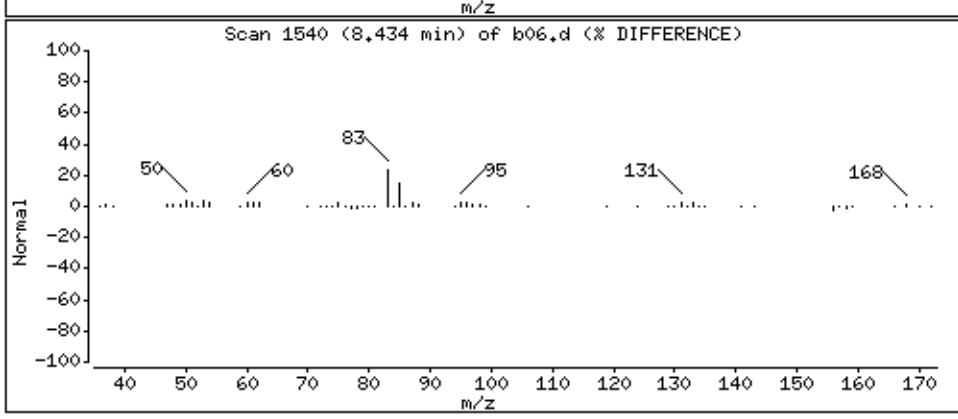
77 1,1,2,2-Tetrachloroethane

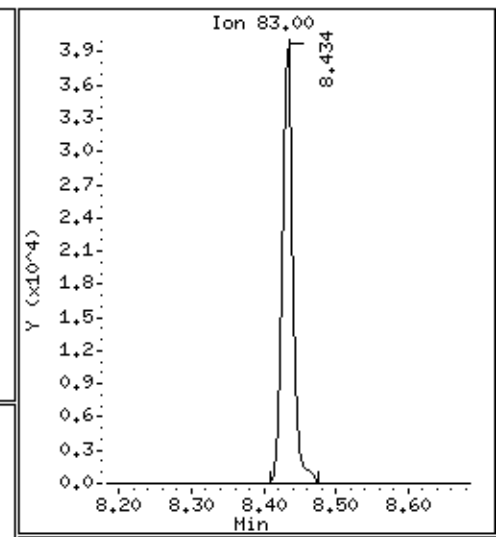
Concentration: 62.0 ppb

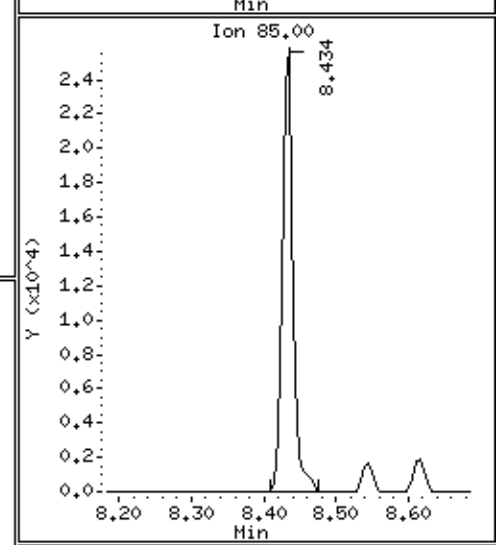


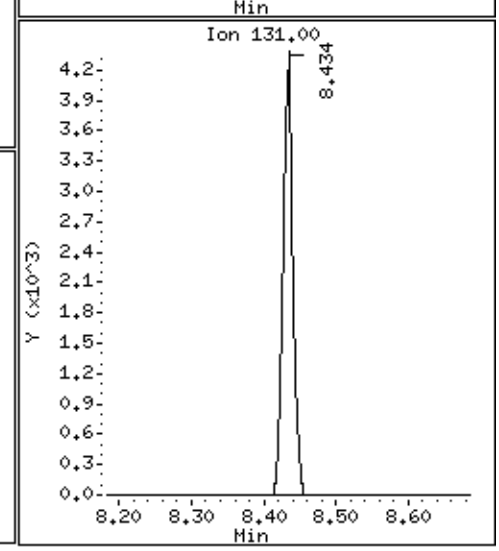












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

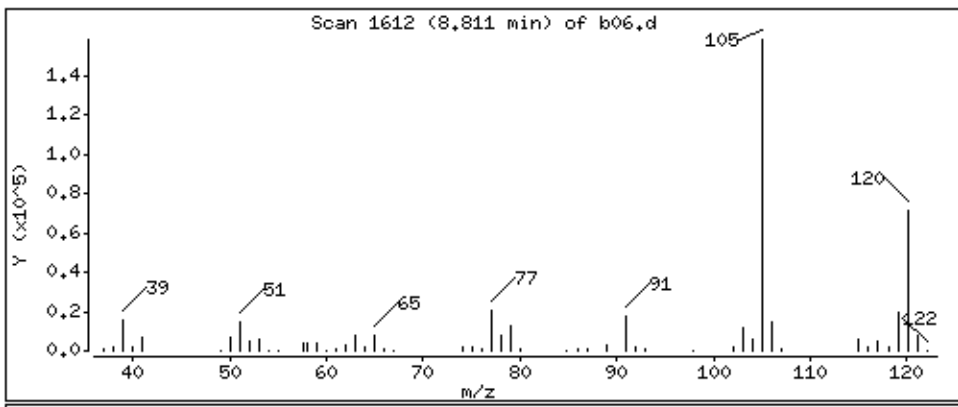
Operator: TMW

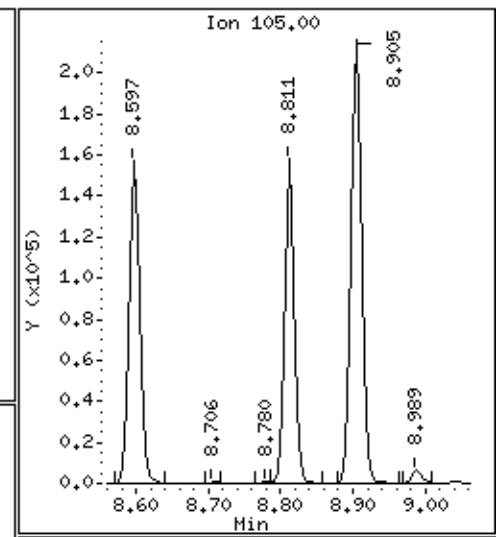
Column phase: DB-624

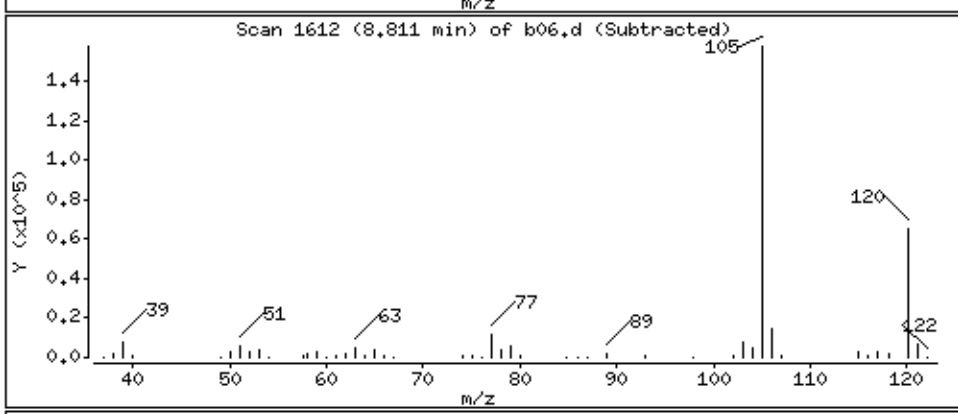
Column diameter: 0.18

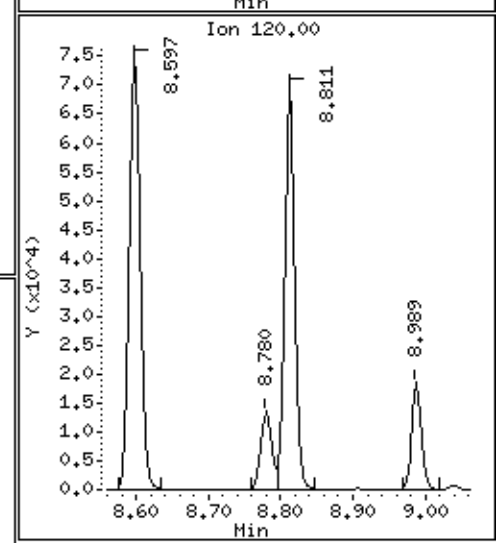
85 1,2,4-Trimethylbenzene

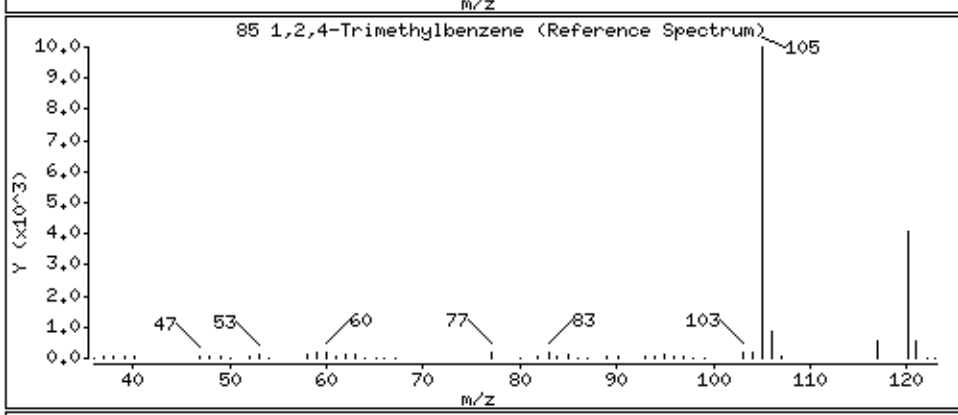
Concentration: 62.9 ppb

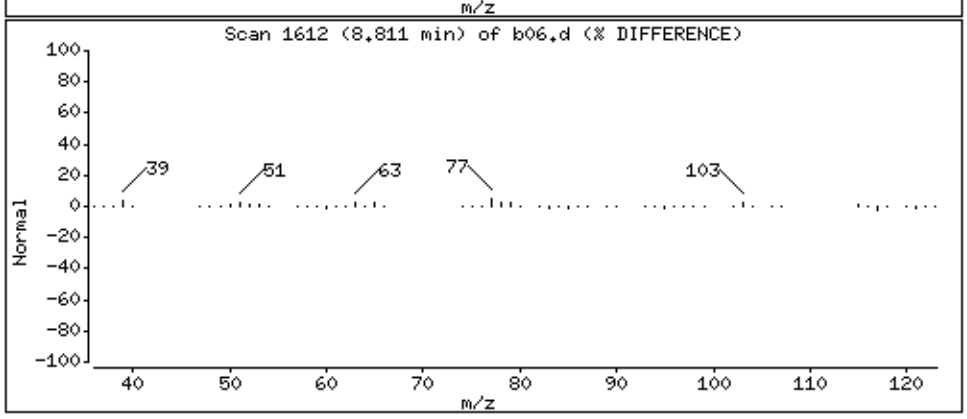












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b06.d

Date : 20-JAN-2017 16:42

Client ID: GP-2 12-14'MSD

Instrument: 50mv5b.i

Sample Info: 1711351,139467:5

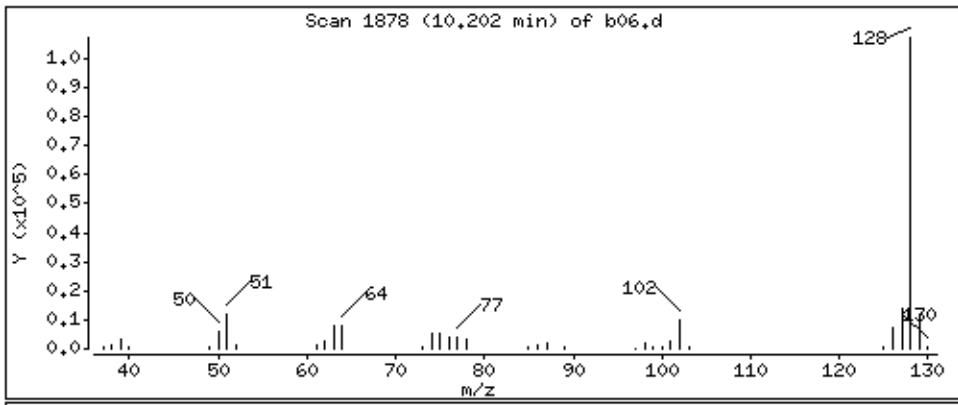
Operator: TMW

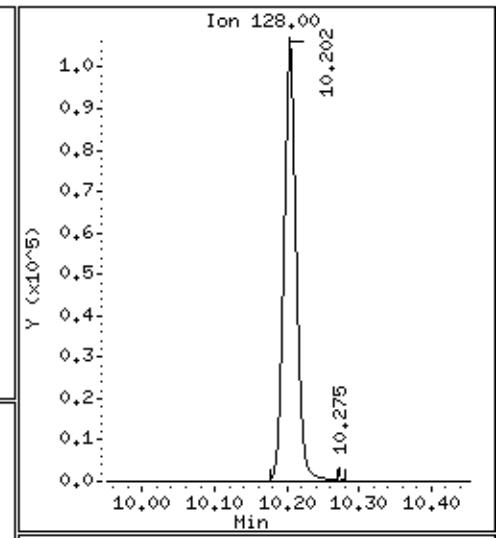
Column phase: DB-624

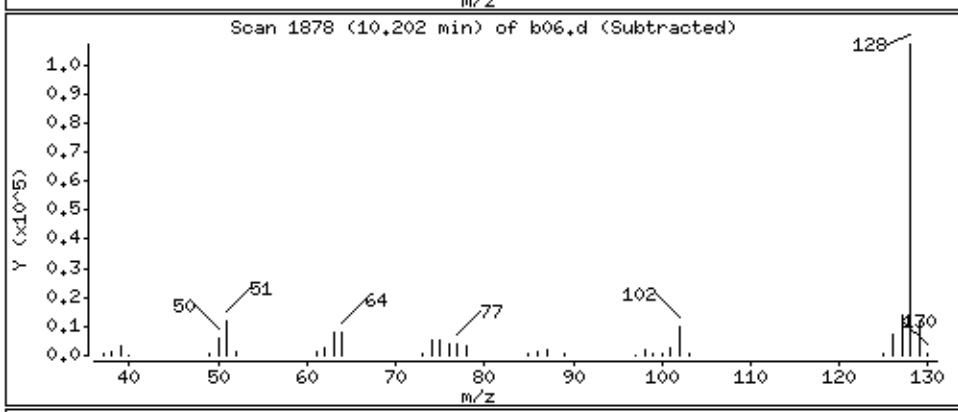
Column diameter: 0.18

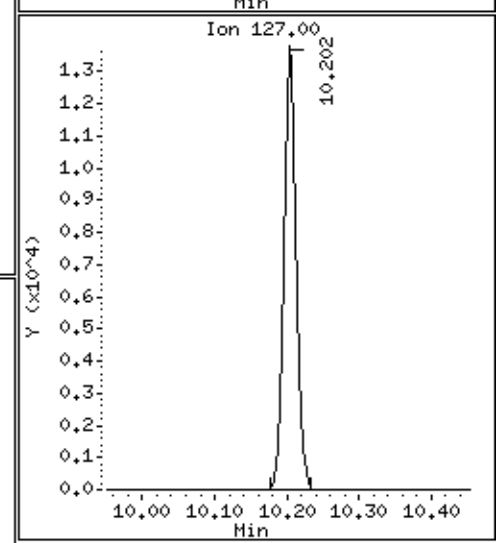
96 Naphthalene

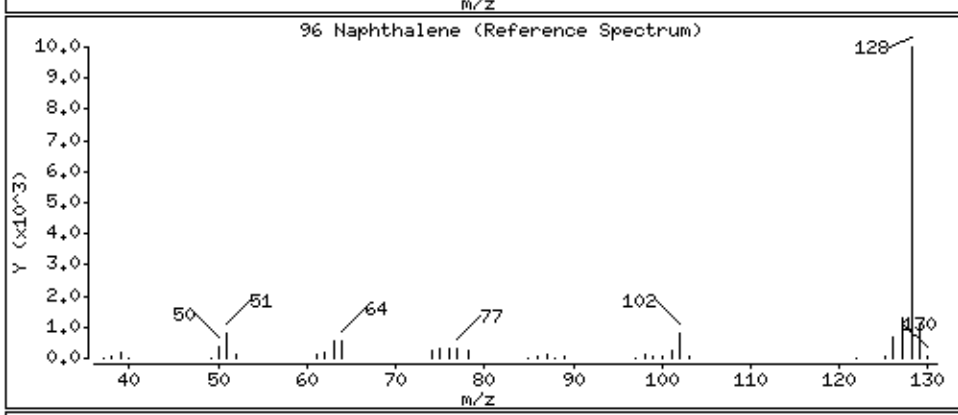
Concentration: 56.4 ppb

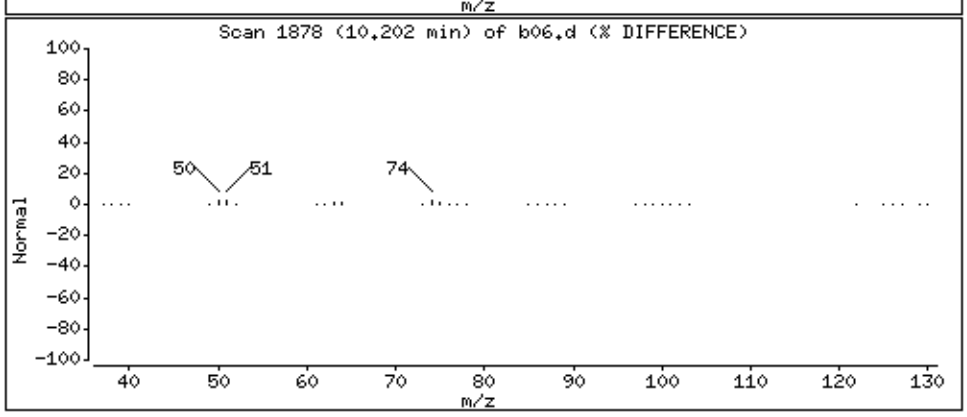












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Injection Date: 20-JAN-2017 16:42
Instrument: 50mv5b.i
Lab Sample ID: 1711351
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/20/2017 15:27
Lab Sample ID: 1712872
Date Analyzed: 01/20/2017 15:27
Lab File ID: B012017.B\B04MBS.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop / IN17002
Date Received:
Matrix: Solid SDG No.: 50163047
Date Extracted: 01/20/2017 15:27
Lab Sample ID: 1712872
Date Analyzed: 01/20/2017 15:27
Lab File ID: B012017.B\B04MBS.D
Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV5B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d
Lab Smp Id: 1712872 Client Smp ID: 1712872
Inj Date : 20-JAN-2017 15:27
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 1712872
Misc Info : 99078
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b012017.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 11:18 50mv5b.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:33 Cal File: b08cal8.d
Als bottle: 55 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
18 Methylene Chloride	84	2.074	2.074	(0.463)	1468	2.33204	2.33	
$ 36 Dibromofluoromethane (S)	113	3.659	3.659	(0.817)	35537	52.0776	52.1	
* 45 Fluorobenzene (IS)	96	4.480	4.480	(1.000)	135865	50.0000		
$ 56 Toluene-d8 (S)	98	6.274	6.274	(0.832)	135827	50.9423	50.9	
57 Toluene	91	6.347	6.347	(0.842)	1040	0.34282	0.343	
* 66 Chlorobenzene-d5 (IS)	117	7.539	7.540	(1.000)	110608	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.345	8.345	(1.107)	56950	50.7856	50.8	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.025	9.020	(1.000)	64071	50.0000		
98 2,methyl-naphthalene	142	10.866	10.866	(1.204)	2873	1.58981	1.59	
99 1-Methylnaphthalene	142	10.986	10.986	(1.217)	2714	1.74644	1.75	

Review Codes Legend

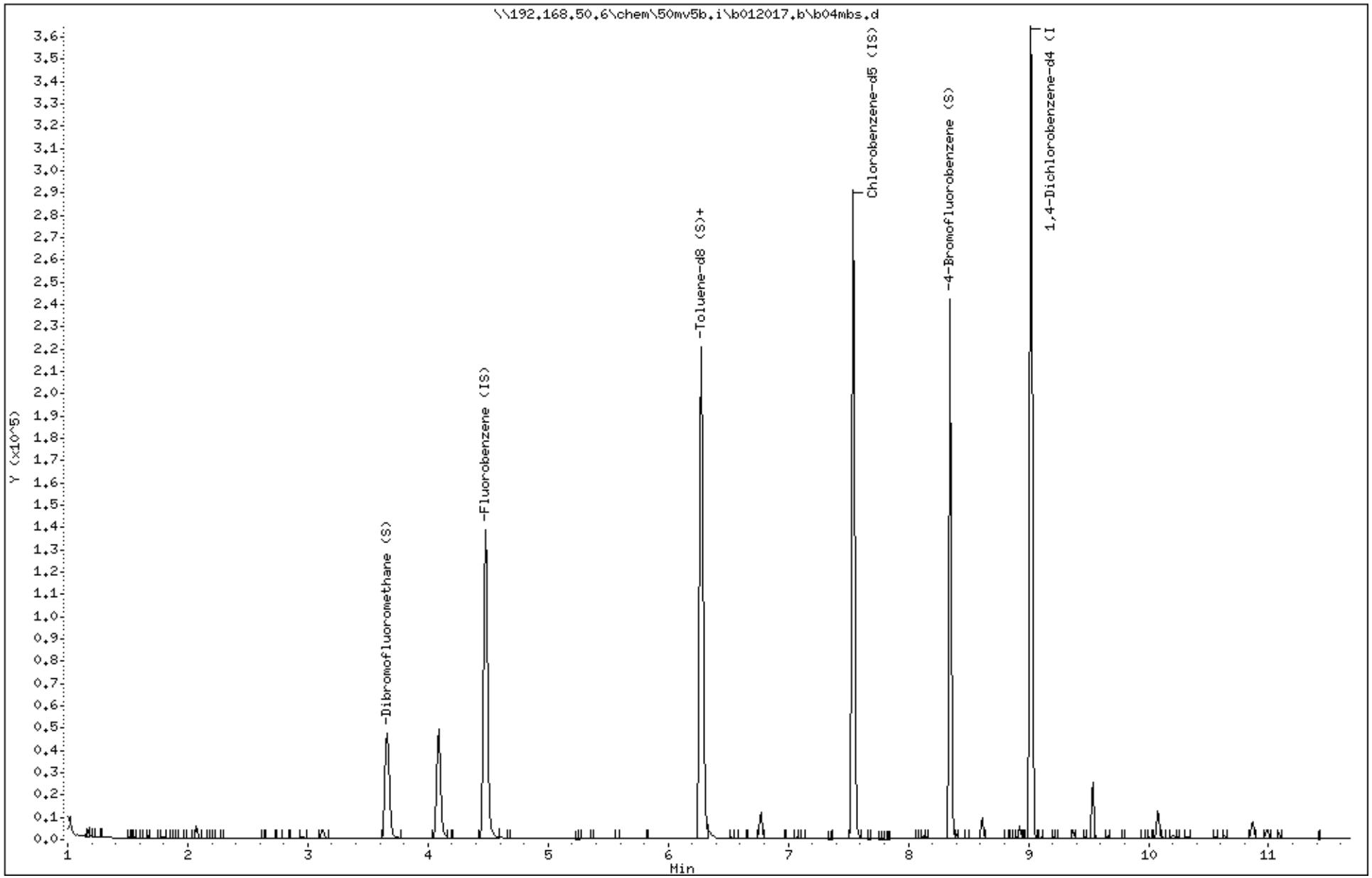
:

Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d
Date : 20-JAN-2017 15:27
Client ID: 1712872
Sample Info: 1712872

Instrument: 50mv5b.i

Operator: TMW

Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d

Date : 20-JAN-2017 15:27

Client ID: 1712872

Instrument: 50mv5b.i

Sample Info: 1712872

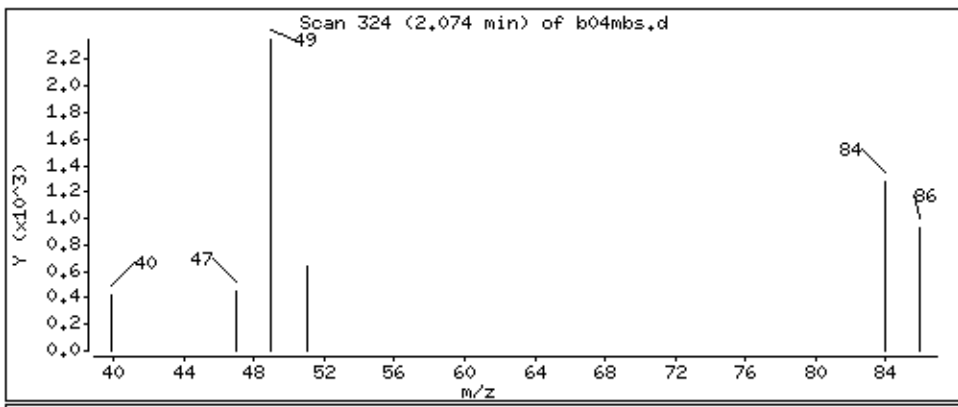
Operator: TMW

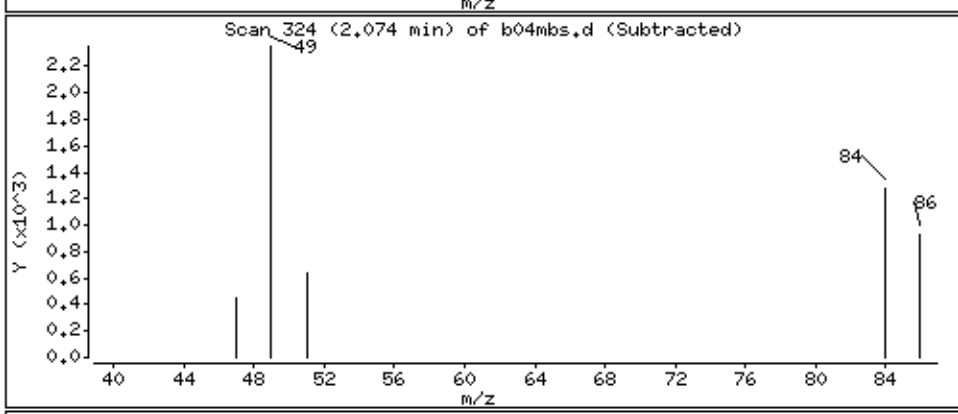
Column phase: DB-624

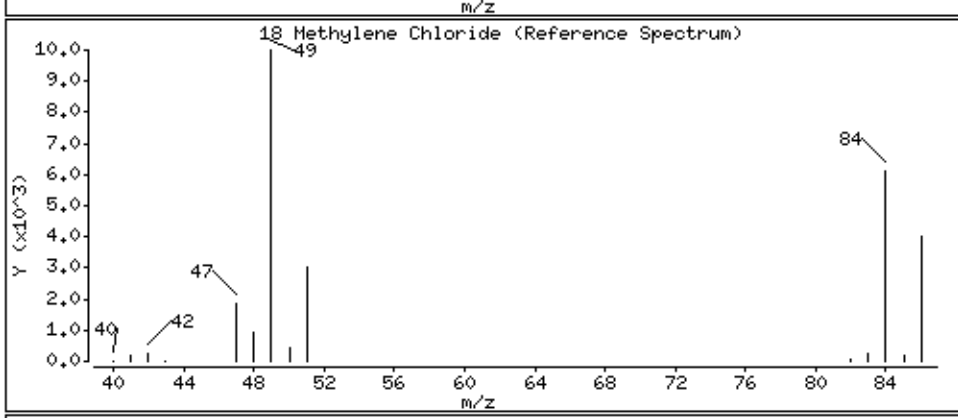
Column diameter: 0.18

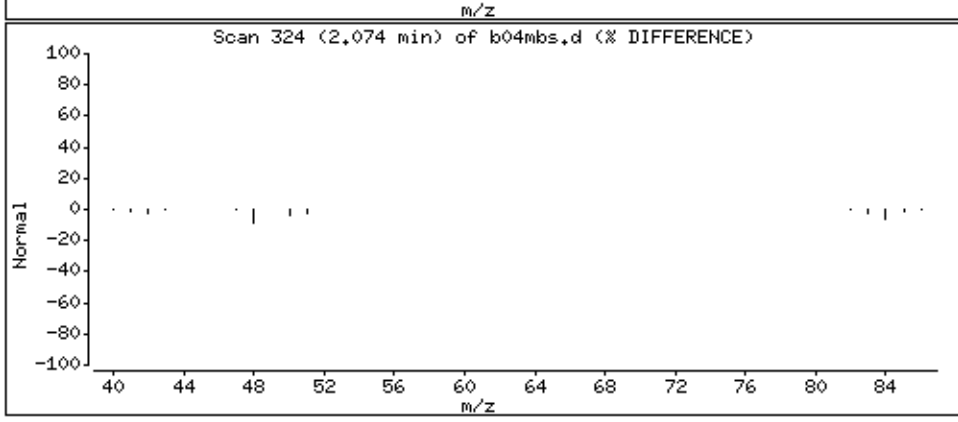
18 Methylene Chloride

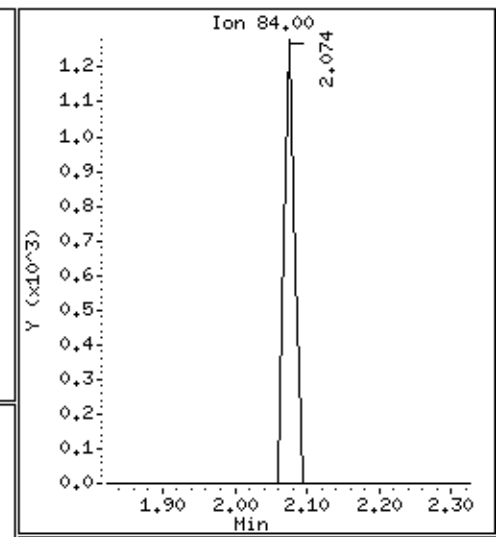
Concentration: 2.33 ppb

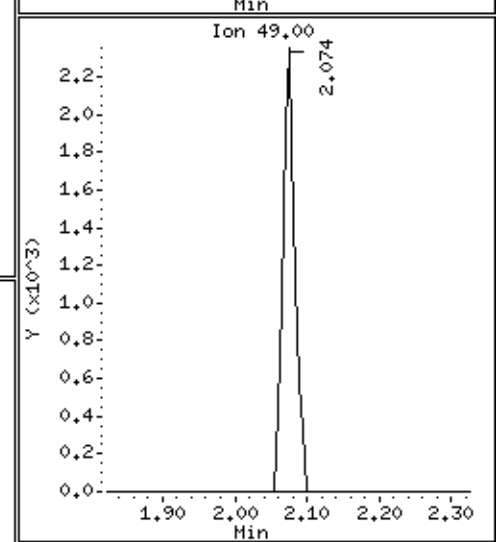


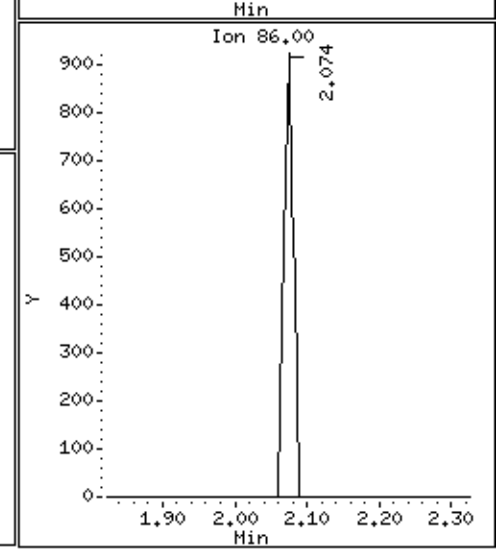












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d

Date : 20-JAN-2017 15:27

Client ID: 1712872

Instrument: 50mv5b.i

Sample Info: 1712872

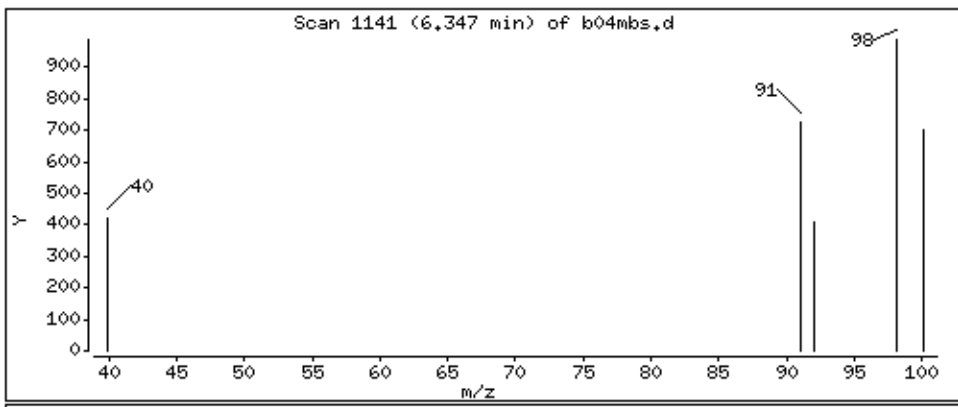
Operator: TMW

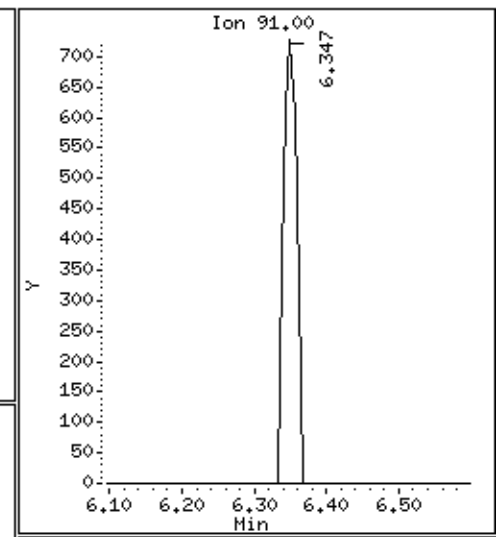
Column phase: DB-624

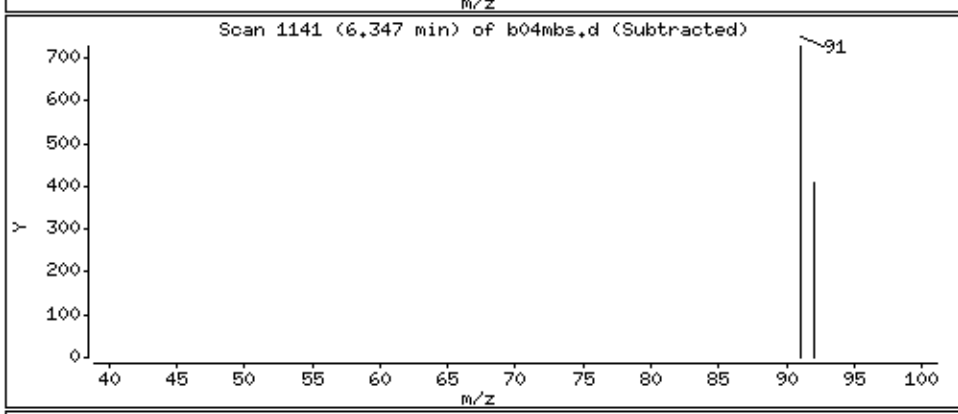
Column diameter: 0.18

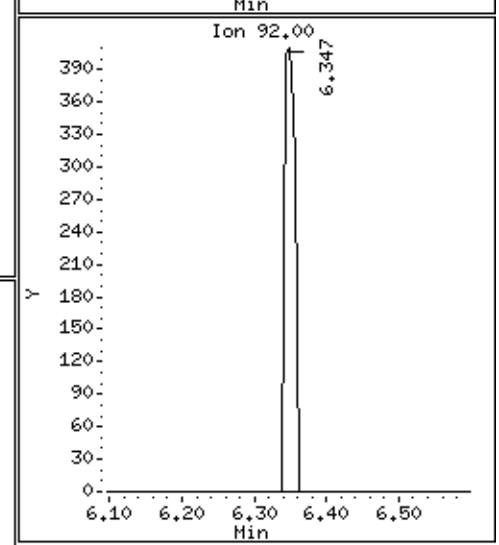
57 Toluene

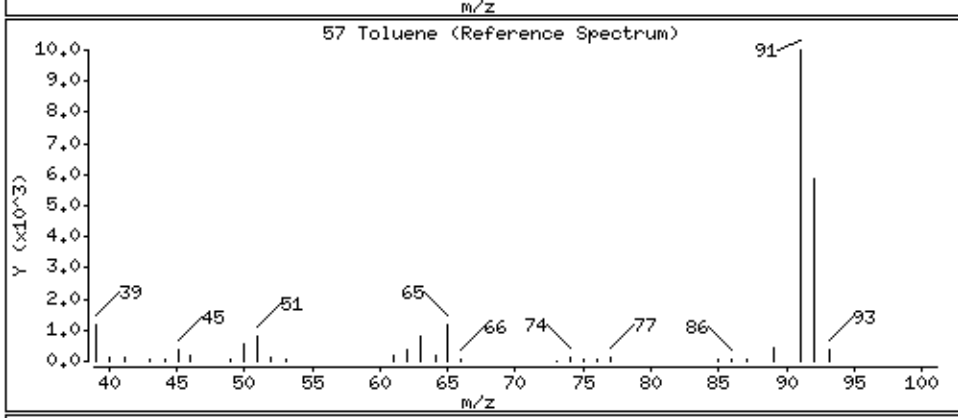
Concentration: 0.343 ppb

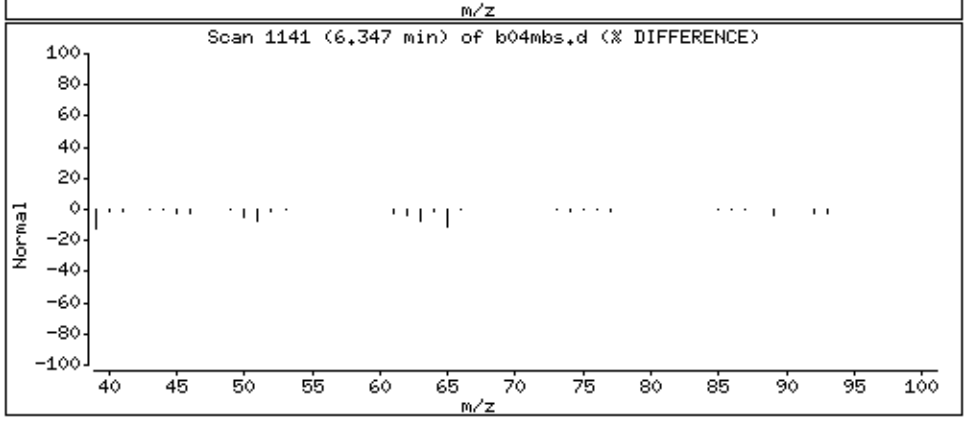












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d

Date : 20-JAN-2017 15:27

Client ID: 1712872

Instrument: 50mv5b.i

Sample Info: 1712872

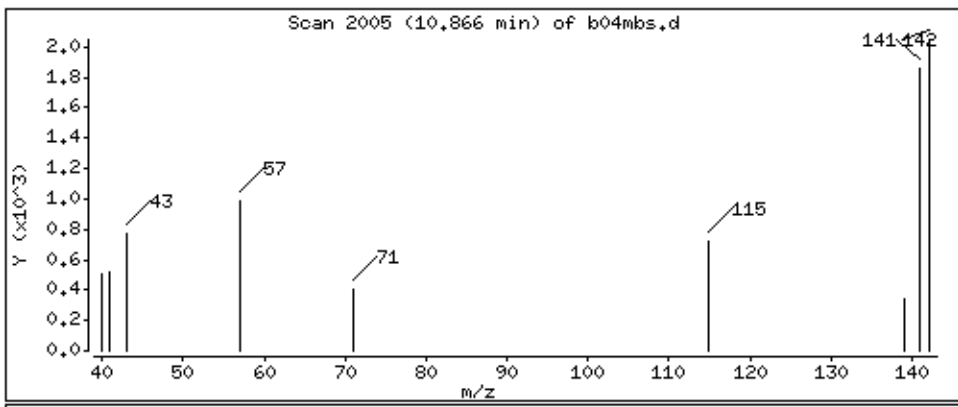
Operator: TMW

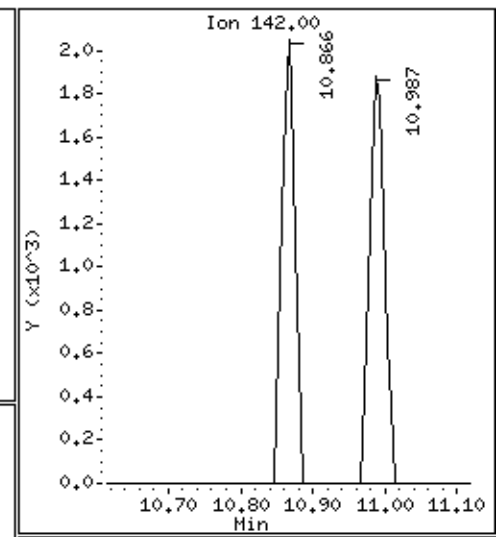
Column phase: DB-624

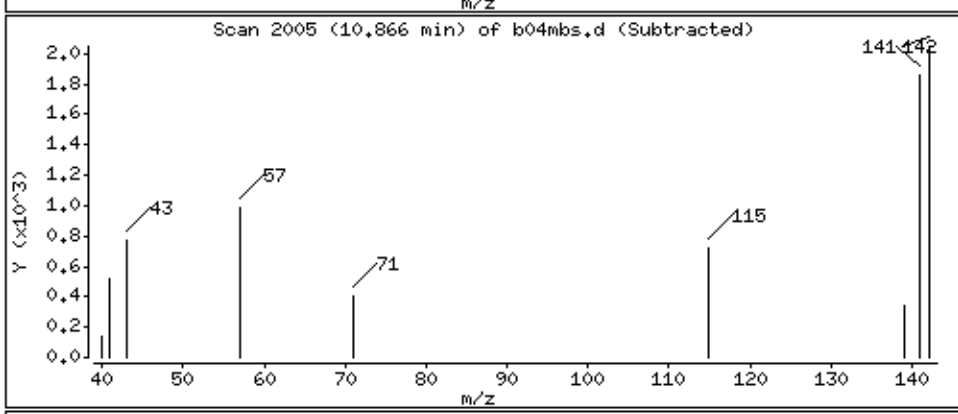
Column diameter: 0.18

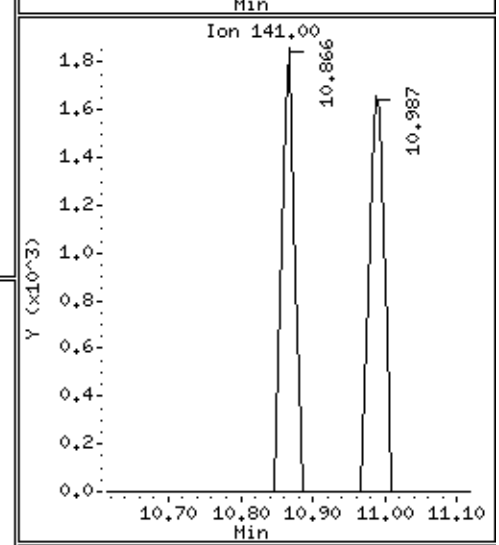
98 2,methyl-naphthalene

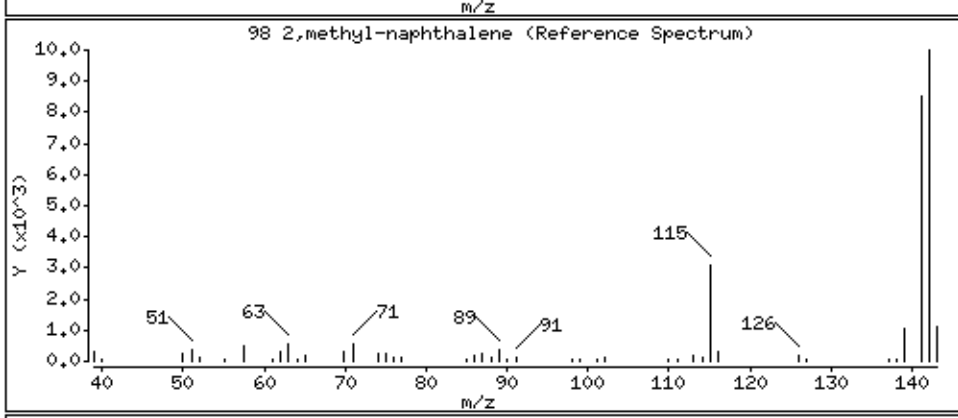
Concentration: 1.59 ppb

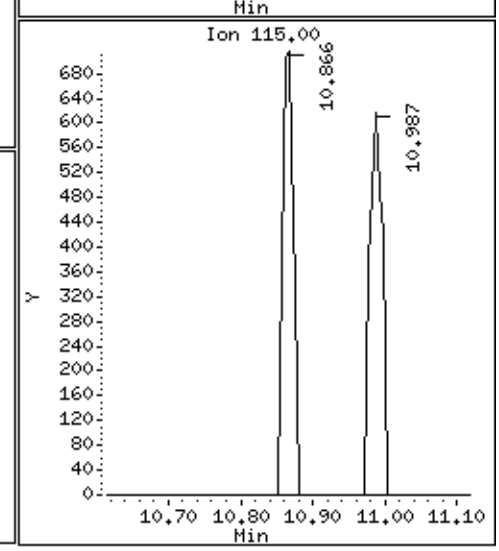


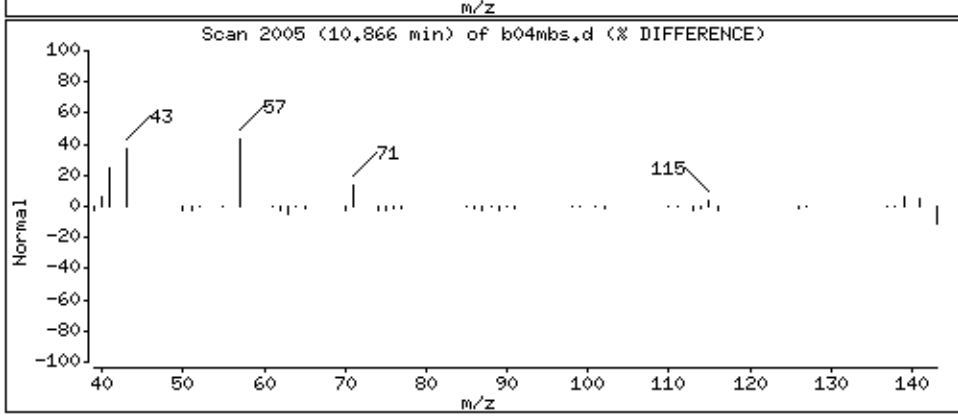












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b04mbs.d

Date : 20-JAN-2017 15:27

Client ID: 1712872

Instrument: 50mv5b.i

Sample Info: 1712872

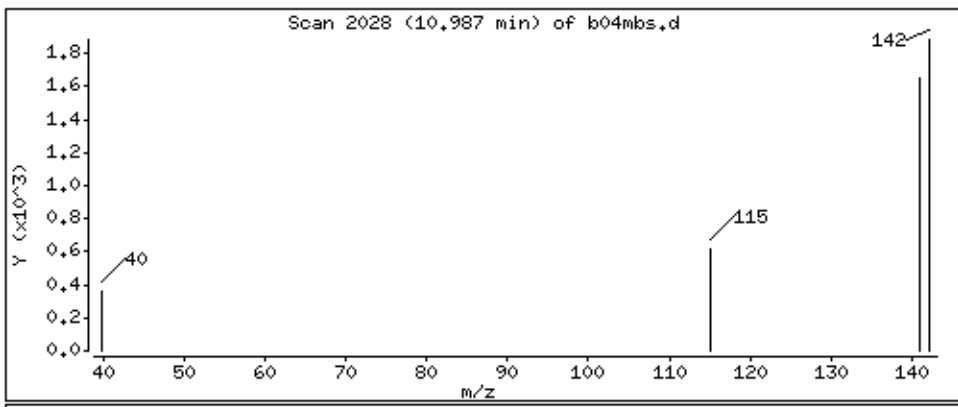
Operator: TMW

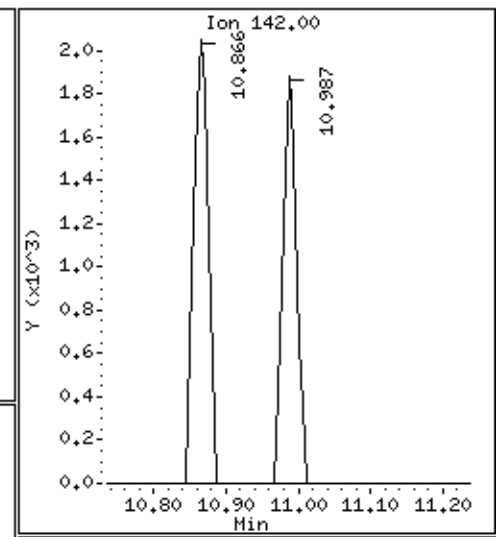
Column phase: DB-624

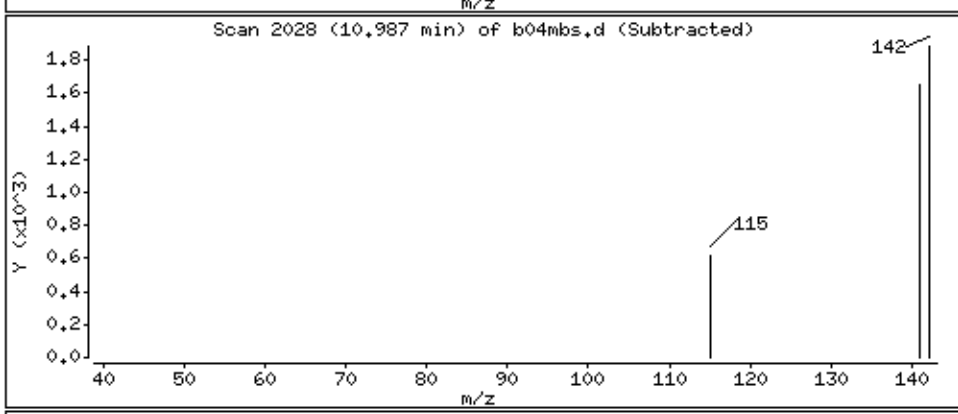
Column diameter: 0.18

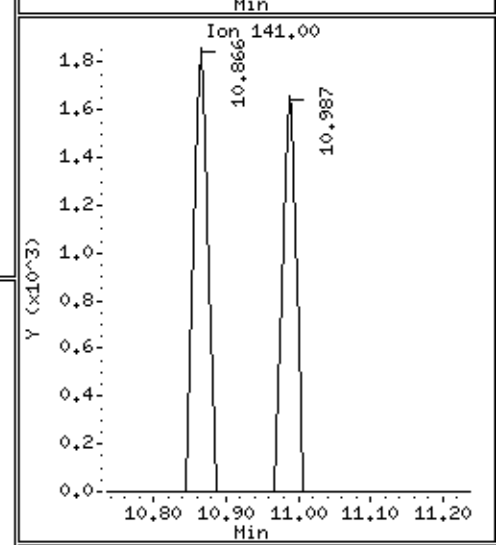
99 1-Methylnaphthalene

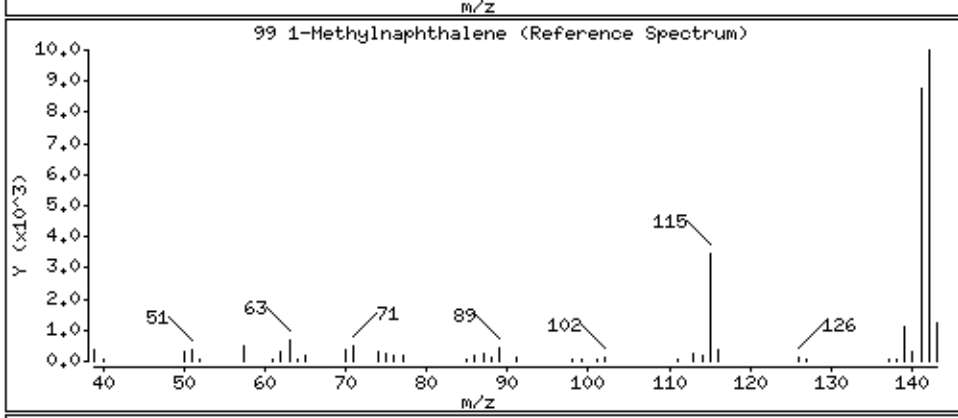
Concentration: 1.75 ppb

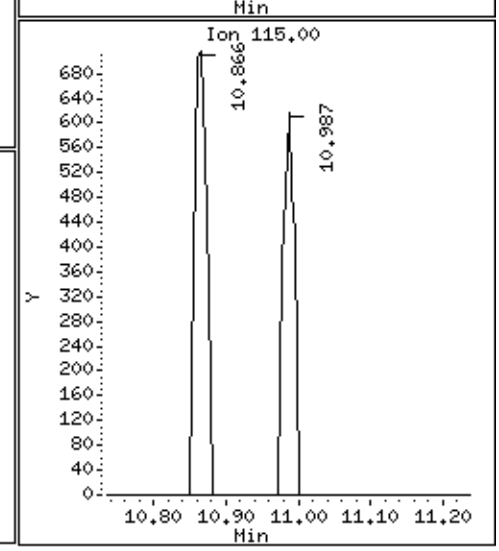


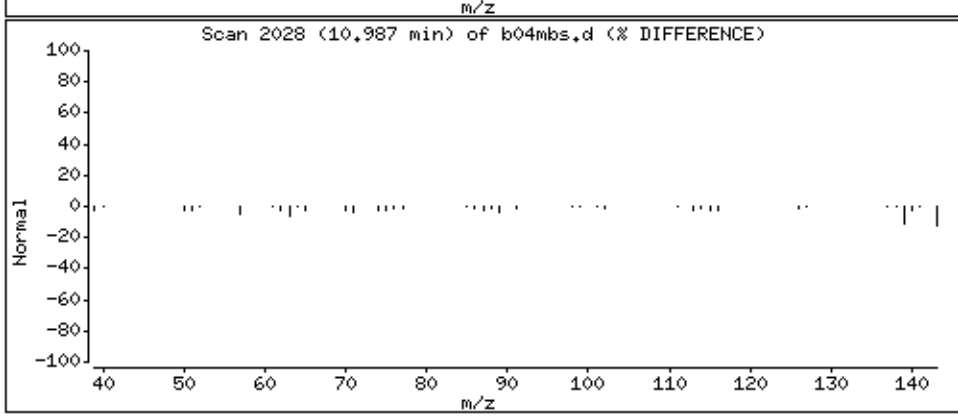












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b/b04mbs.d
Injection Date: 20-JAN-2017 15:27
Instrument: 50mv5b.i
Lab Sample ID: 1712872
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: Quick Shop / IN17002

Date Received:

Matrix: Solid SDG No.: 50163047

Date Extracted: 01/20/2017 14:12

Lab Sample ID: 1712873

Date Analyzed: 01/20/2017 14:12

Lab File ID: B012017.B\B02LCSS.D

Initial wt/vol: 5 g Final wt/vol: 5 mL Dilution: 1

Instrument: 50MV5B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: mg/kg	Q
71-43-2	Benzene	0.050	
108-90-7	Chlorobenzene	0.047	
67-66-3	Chloroform	0.050	
75-35-4	1,1-Dichloroethene	0.052	
156-59-2	cis-1,2-Dichloroethene	0.051	
156-60-5	trans-1,2-Dichloroethene	0.052	
78-87-5	1,2-Dichloropropane	0.054	
100-41-4	Ethylbenzene	0.050	
98-82-8	Isopropylbenzene (Cumene)	0.047	
1634-04-4	Methyl-tert-butyl ether	0.051	
91-20-3	Naphthalene	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	0.050	
127-18-4	Tetrachloroethene	0.057	
108-88-3	Toluene	0.057	
71-55-6	1,1,1-Trichloroethane	0.052	
79-01-6	Trichloroethene	0.049	
95-63-6	1,2,4-Trimethylbenzene	0.050	
75-01-4	Vinyl chloride	0.050	
1330-20-7	Xylene (Total)	0.14	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d
Lab Smp Id: 1712873,139467:5 Client Smp ID: 1712873,139467:5
Inj Date : 20-JAN-2017 14:12
Operator : TMW Inst ID: 50mv5b.i
Smp Info : 1712873,139467:5
Misc Info : 99078
Comment :
Method : \\192.168.50.6\chem\50mv5b.i\b012017.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 11:18 50mv5b.i Quant Type: ISTD
Cal Date : 16-JAN-2017 17:33 Cal File: b08cal8.d
Als bottle: 53 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Ws	5.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	0.00000	Volume of aliquot extract added (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.180	1.180	(0.263)	40855	50.1424	50.1	
22 1,2-Dichloroethene (trans)	96	2.262	2.262	(0.505)	33192	51.8694	51.9	
28 1,2-Dichloroethene (cis)	96	3.099	3.099	(0.692)	36332	51.0083	51.0(Q)	
11 1,1-Dichloroethene	96	1.781	1.781	(0.398)	30229	51.8659	51.9	
21 Methyl-tert-butyl ether	73	2.247	2.247	(0.502)	89420	50.9650	51.0	
34 Chloroform	83	3.471	3.465	(0.775)	63048	50.1970	50.2	
35 1,1,1-Trichloroethane	97	3.664	3.659	(0.818)	53974	51.5647	51.6	
$ 36 Dibromofluoromethane (S)	113	3.659	3.659	(0.817)	35058	47.6558	47.6	
41 Benzene	78	4.103	4.103	(0.916)	144725	50.3428	50.3	
* 45 Fluorobenzene (IS)	96	4.480	4.480	(1.000)	146470	50.0000		
46 Trichloroethene	95	4.914	4.909	(1.097)	37150	49.0980	49.1	
48 1,2-Dichloropropane	63	5.207	5.207	(1.162)	44577	53.6906	53.7	
$ 56 Toluene-d8 (S)	98	6.274	6.274	(0.832)	141588	57.3640	57.4	
57 Toluene	91	6.347	6.347	(0.842)	160861	57.2798	57.3	
61 Tetrachloroethene	166	6.839	6.839	(0.907)	41094	56.7052	56.7	
* 66 Chlorobenzene-d5 (IS)	117	7.540	7.540	(1.000)	102392	50.0000		
67 Chlorobenzene	112	7.561	7.560	(1.003)	90543	47.0396	47.0	
69 Ethylbenzene	106	7.639	7.639	(1.013)	51089	49.8707	49.9	
70 m&p-Xylene	106	7.733	7.733	(1.026)	120738	93.1099	93.1	
71 o-Xylene	106	7.995	7.989	(1.060)	59148	46.0647	46.1	
74 Isopropylbenzene	105	8.235	8.235	(1.092)	167428	47.4115	47.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 75 4-Bromofluorobenzene (S)	95	8.345	8.345	(1.107)	49219	47.4133	47.4	
77 1,1,2,2-Tetrachloroethane	83	8.434	8.434	(0.935)	40351	50.1833	50.2	
85 1,2,4-Trimethylbenzene	105	8.811	8.811	(0.977)	145757	50.1954	50.2	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	9.020	9.020	(1.000)	56455	50.0000		
96 Naphthalene	128	10.202	10.202	(1.131)	138415	50.2349	50.2	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

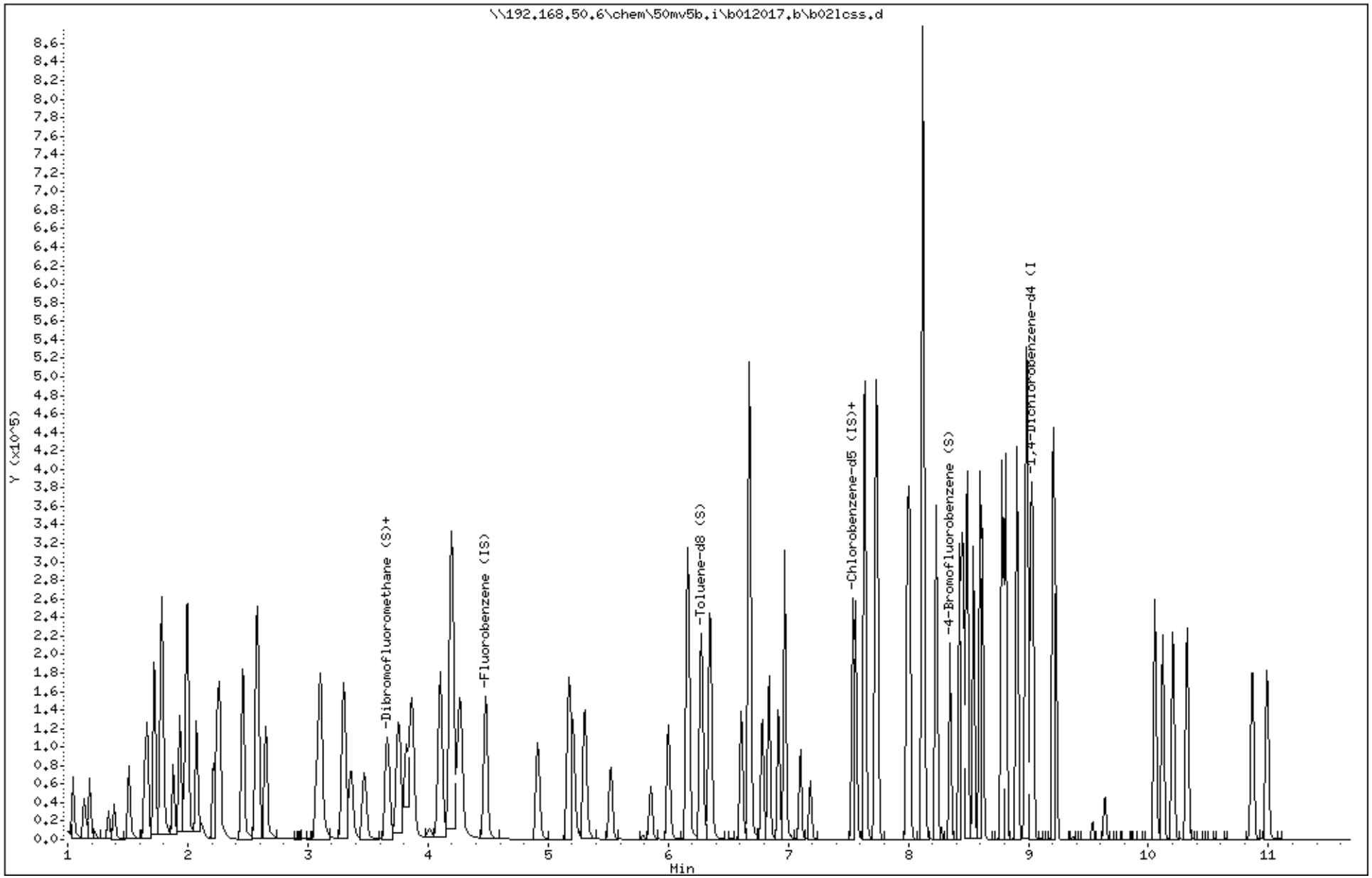
Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b021css.d
Date : 20-JAN-2017 14:12
Client ID: 1712873,139467:5
Sample Info: 1712873,139467:5

Instrument: 50mv5b.i

Operator: TMW

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

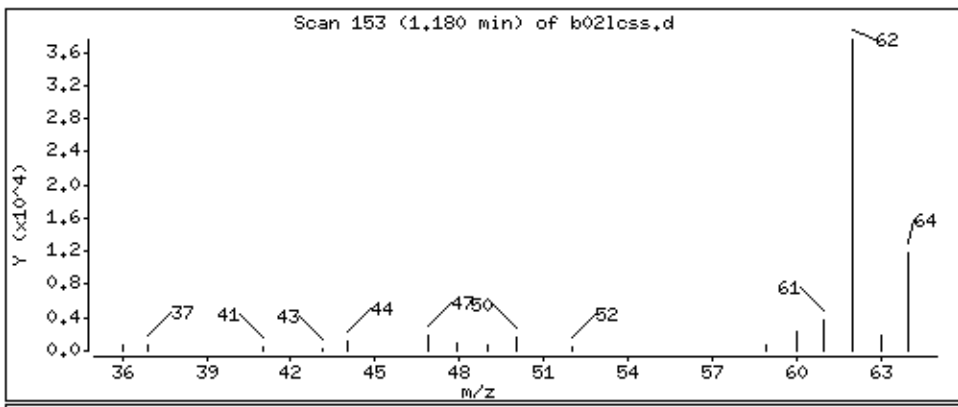
Operator: TMW

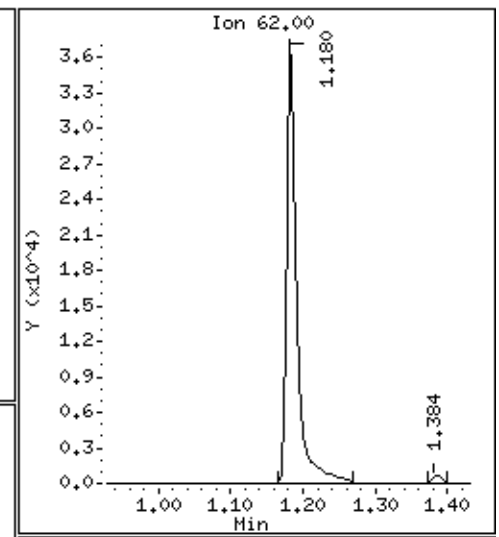
Column phase: DB-624

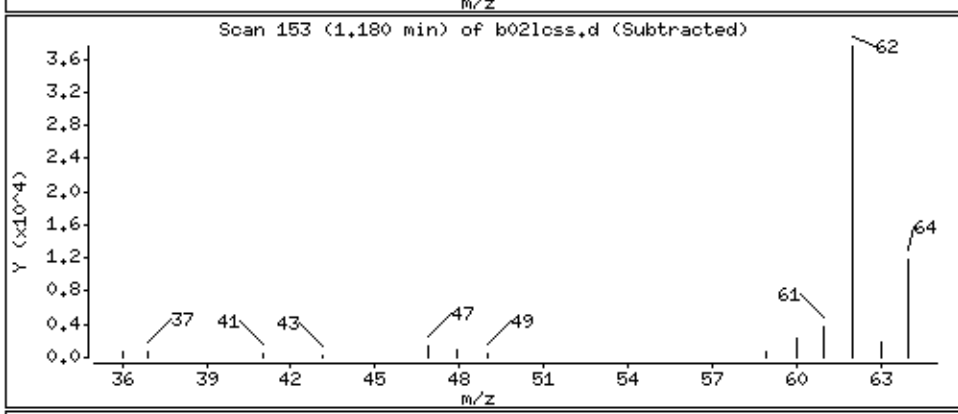
Column diameter: 0.18

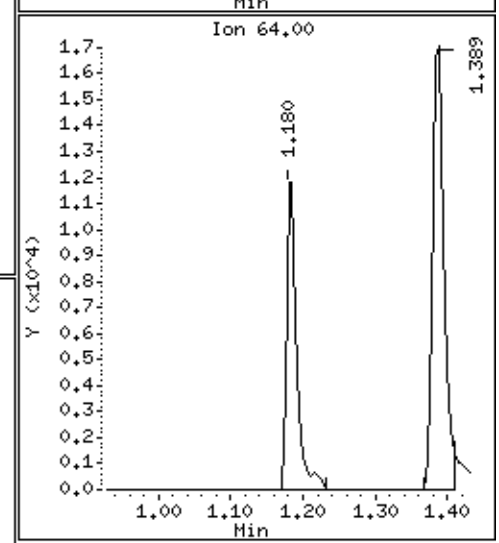
3 Vinyl Chloride

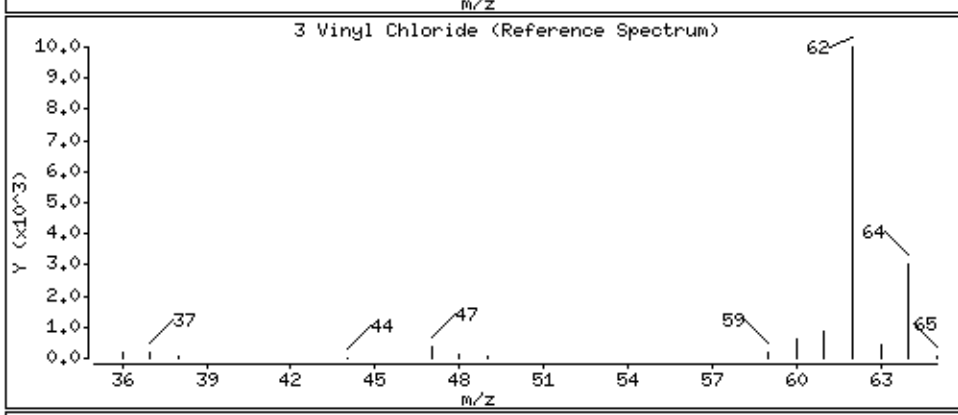
Concentration: 50.1 ppb

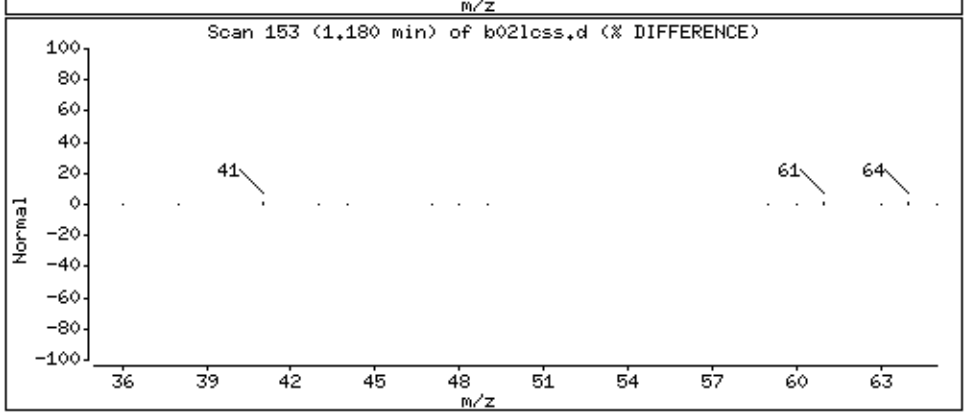












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Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

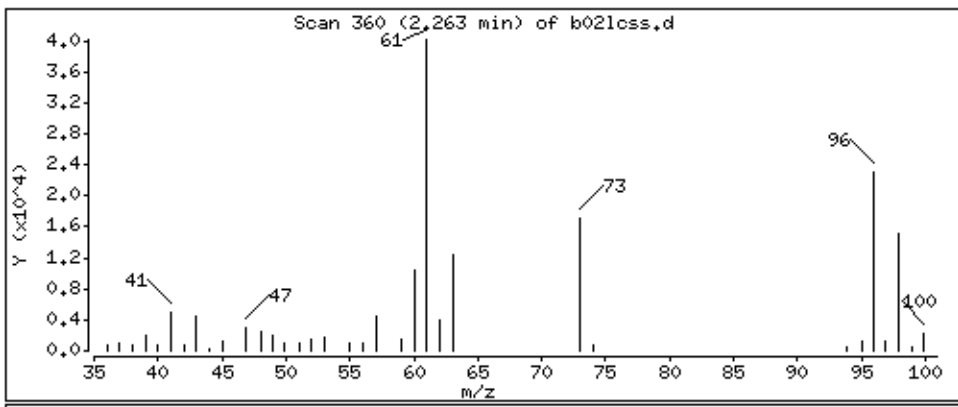
Operator: TMW

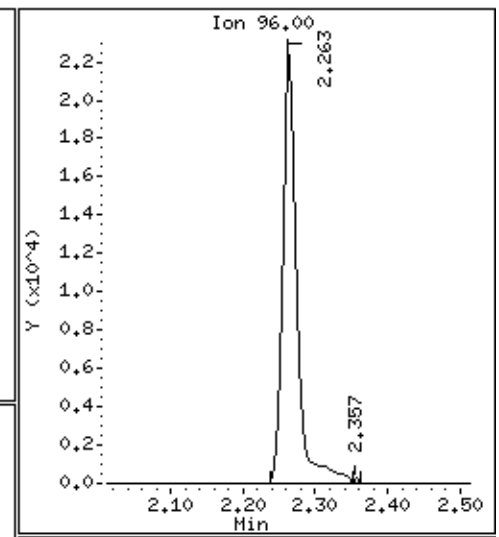
Column phase: DB-624

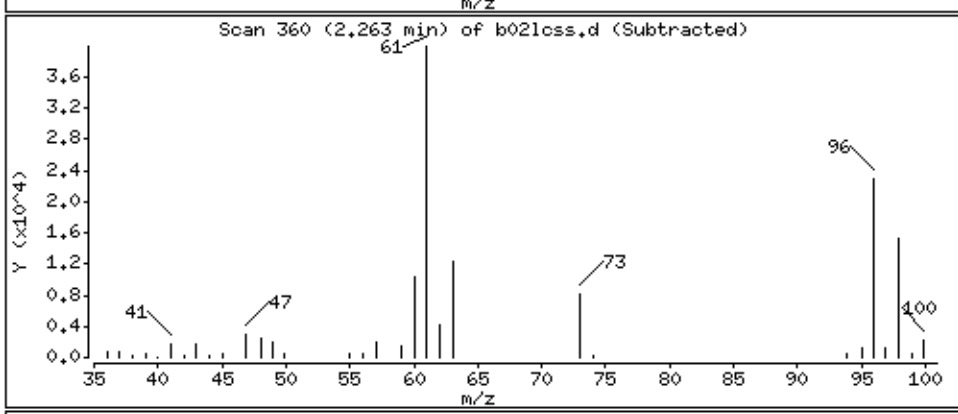
Column diameter: 0.18

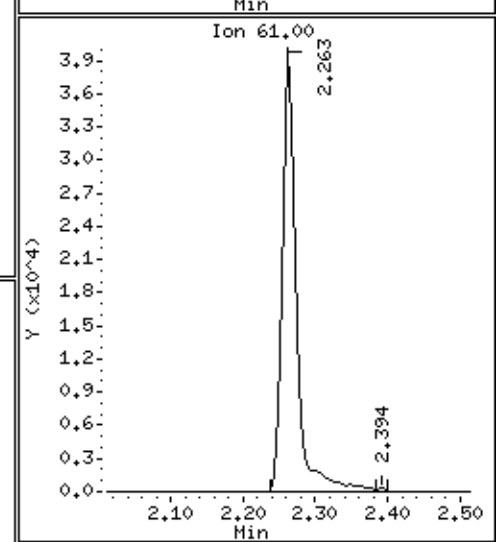
22 1,2-Dichloroethene (trans)

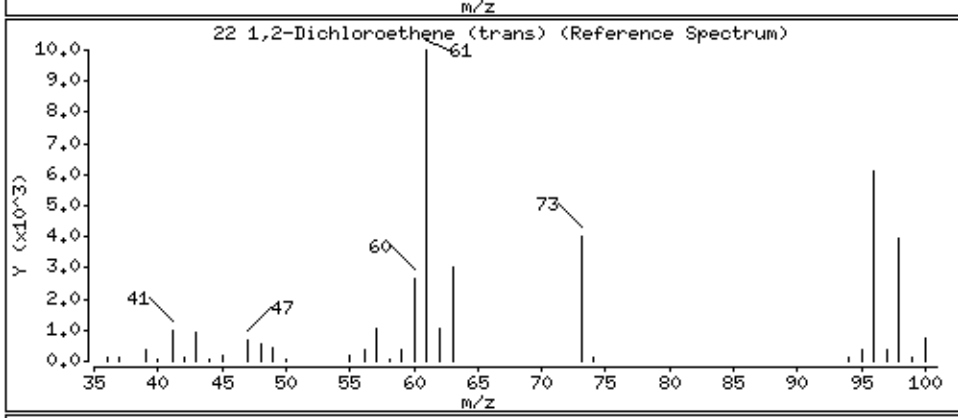
Concentration: 51.9 ppb

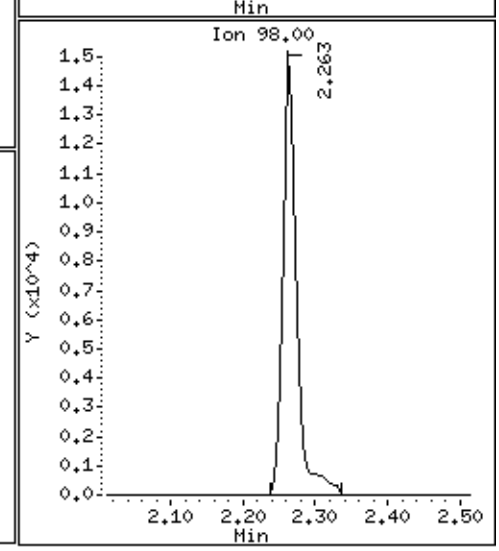


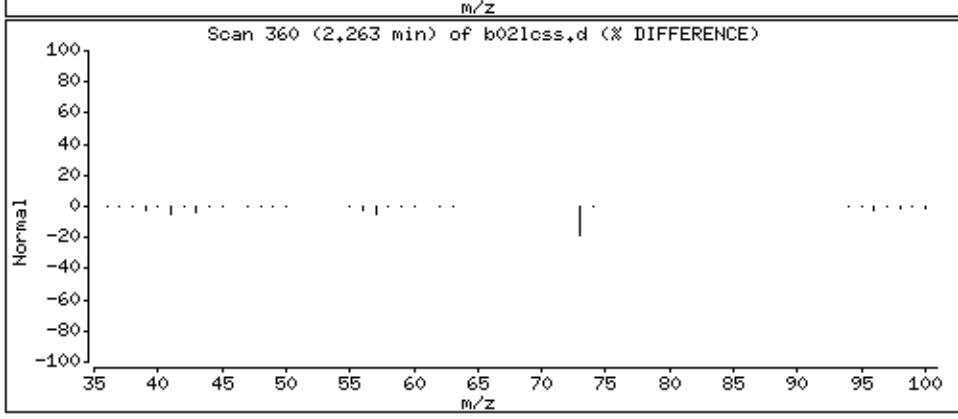












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

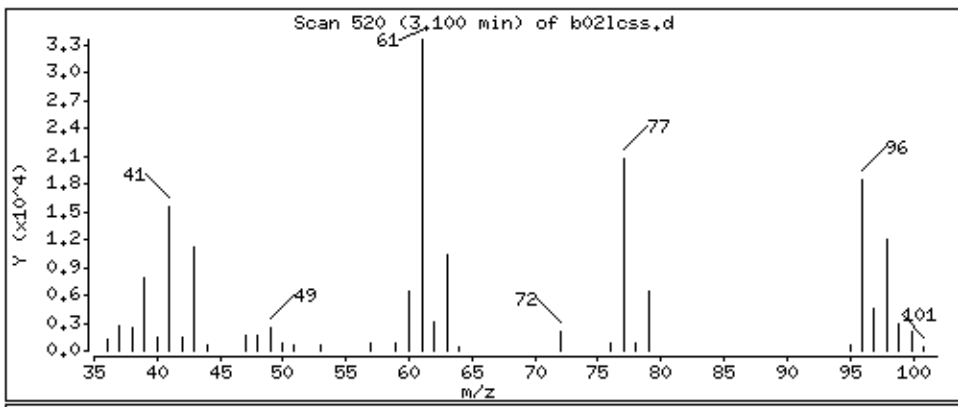
Operator: TMW

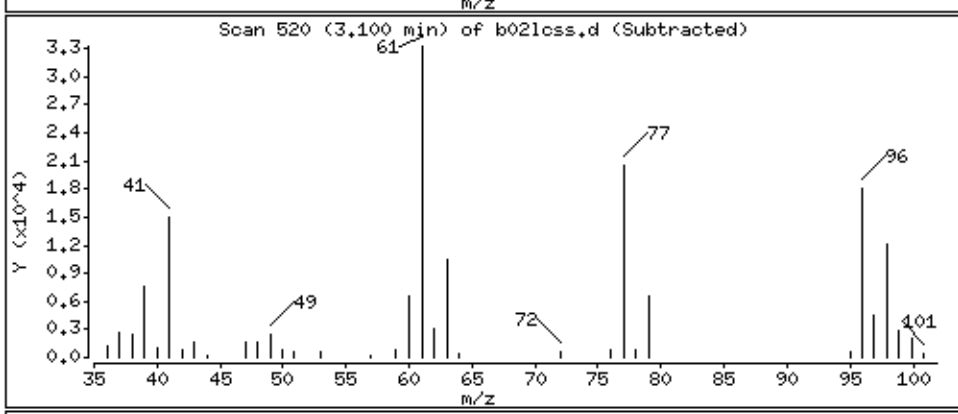
Column phase: DB-624

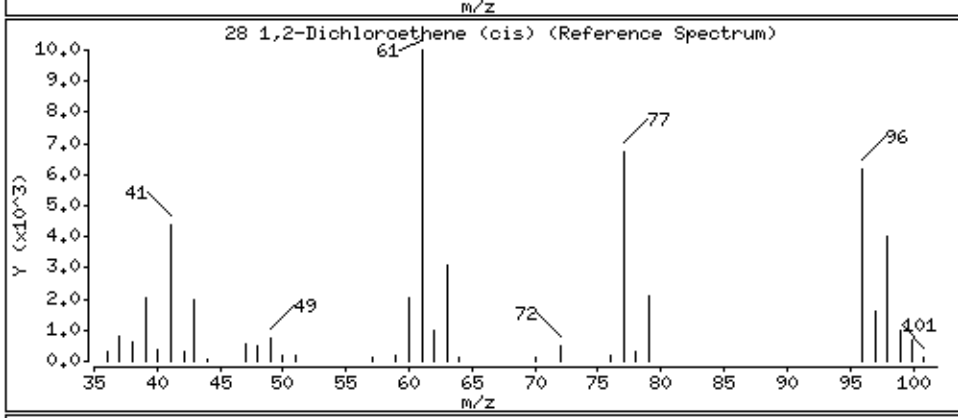
Column diameter: 0.18

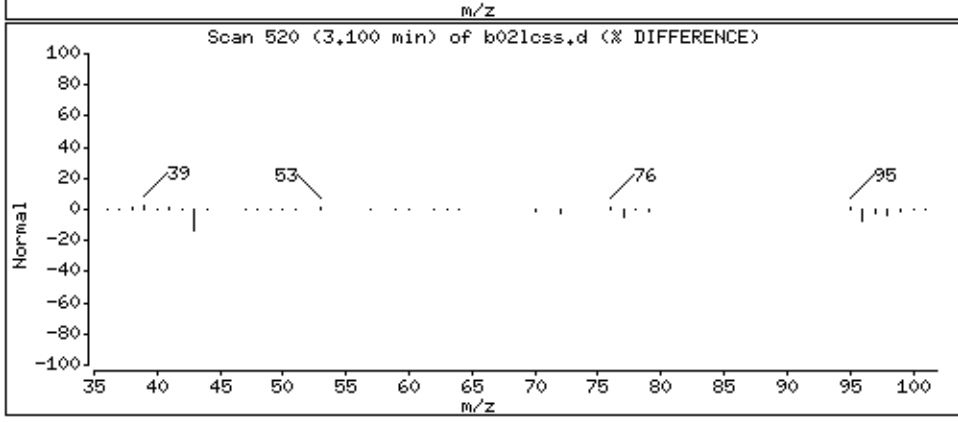
28 1,2-Dichloroethene (cis)

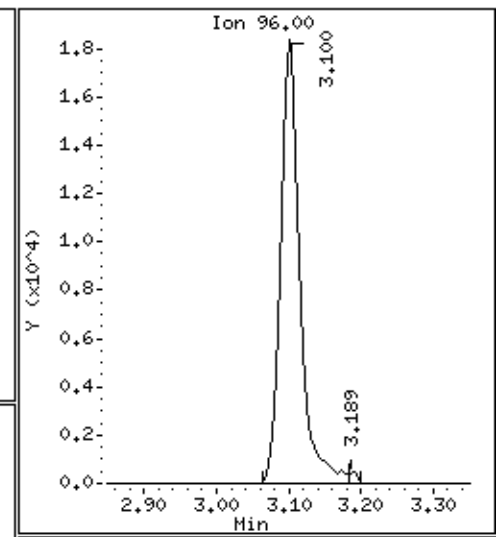
Concentration: 51.0 ppb

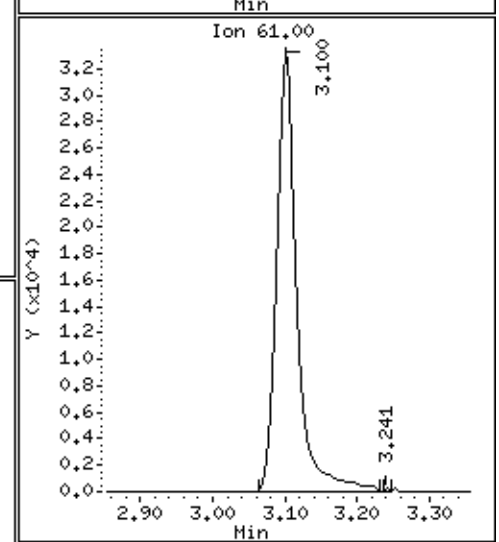


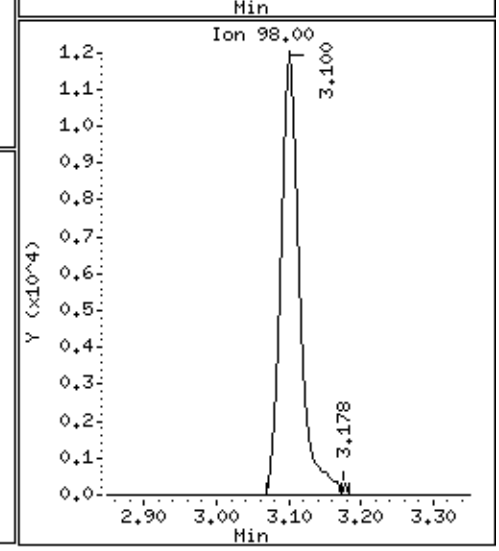












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

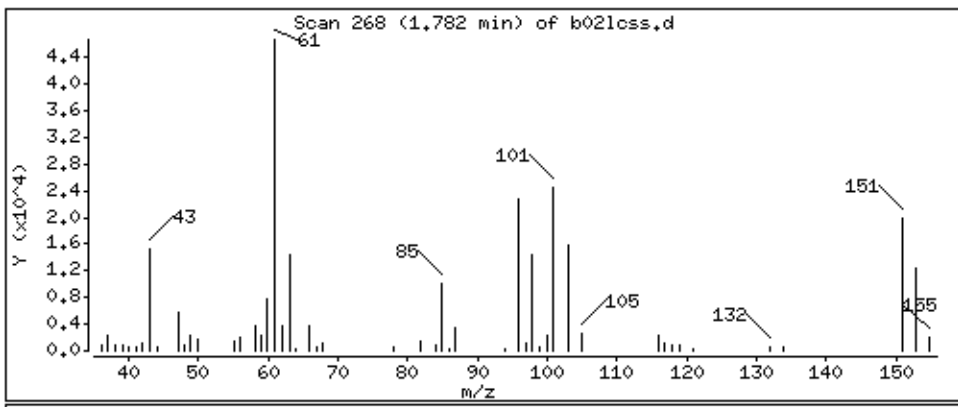
Operator: TMW

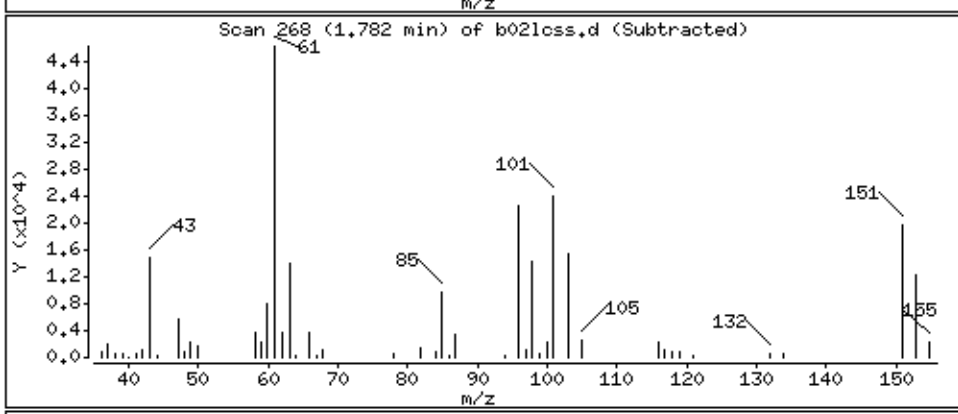
Column phase: DB-624

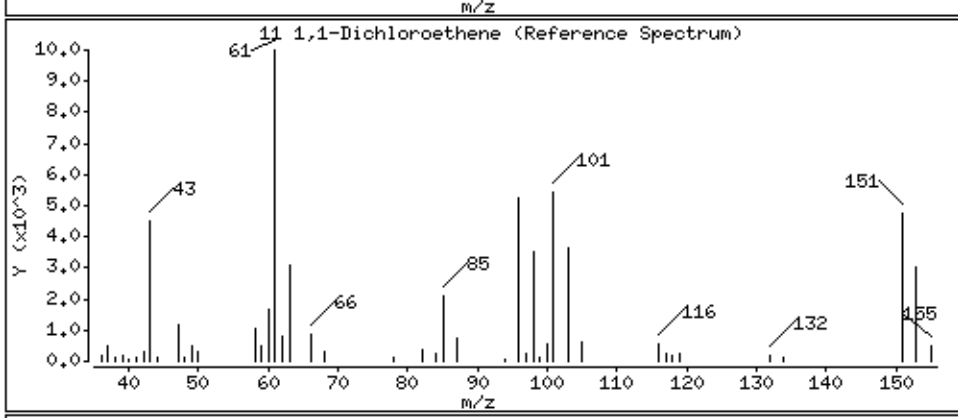
Column diameter: 0.18

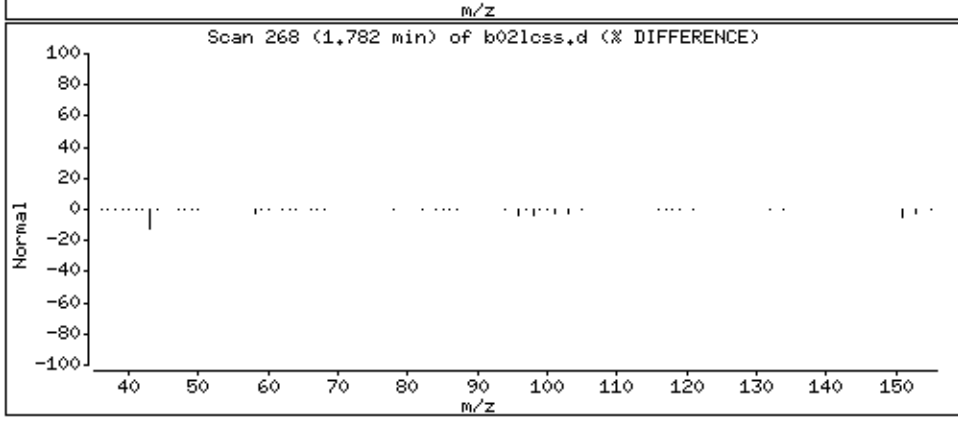
11 1,1-Dichloroethene

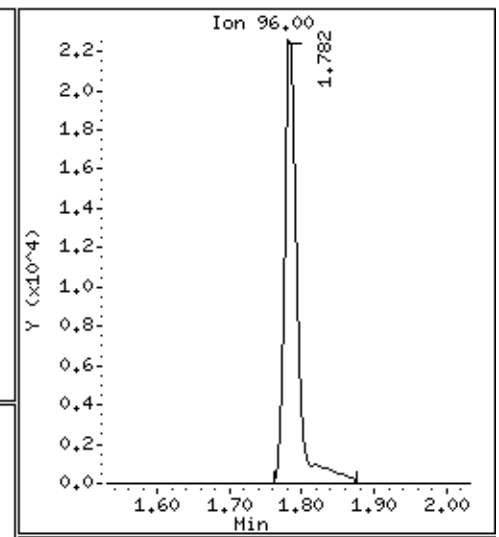
Concentration: 51.9 ppb

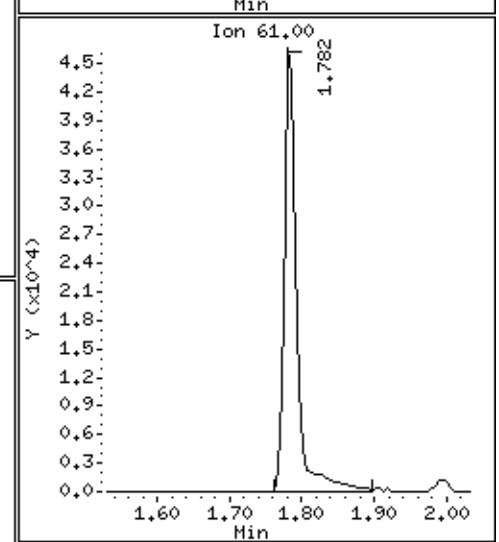


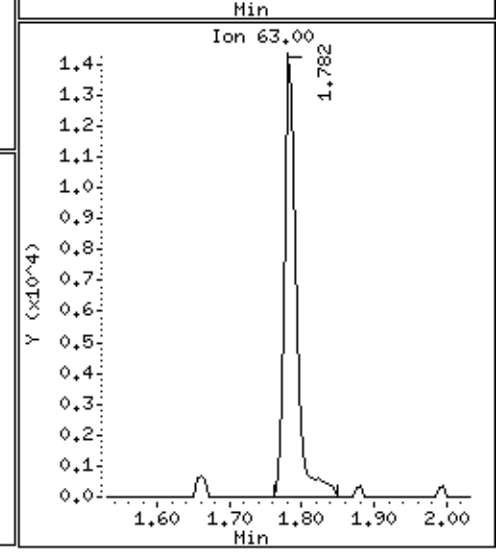












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

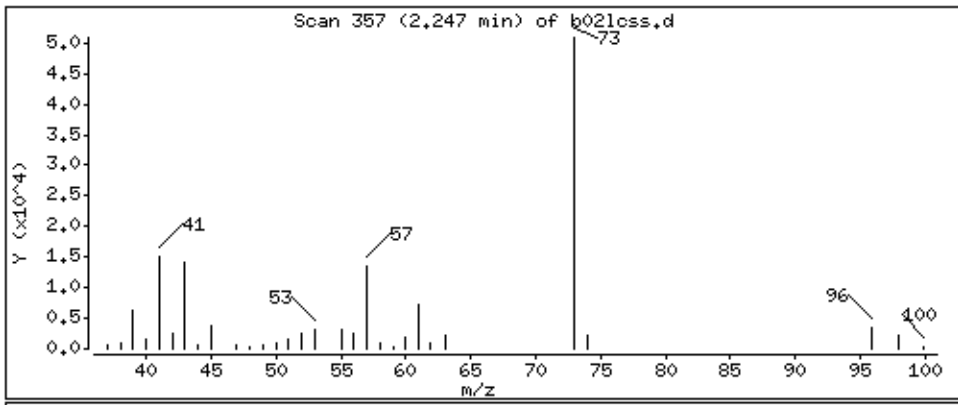
Operator: TMW

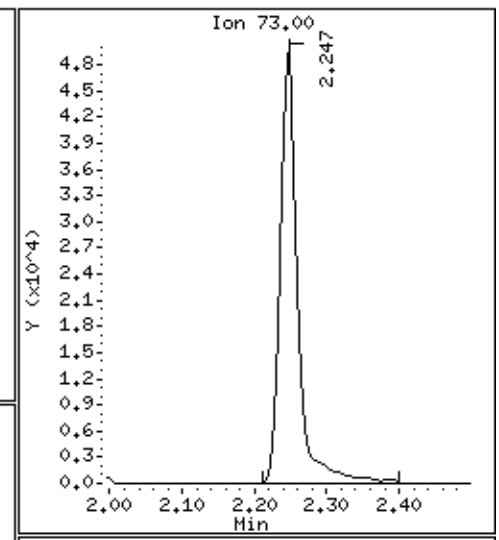
Column phase: DB-624

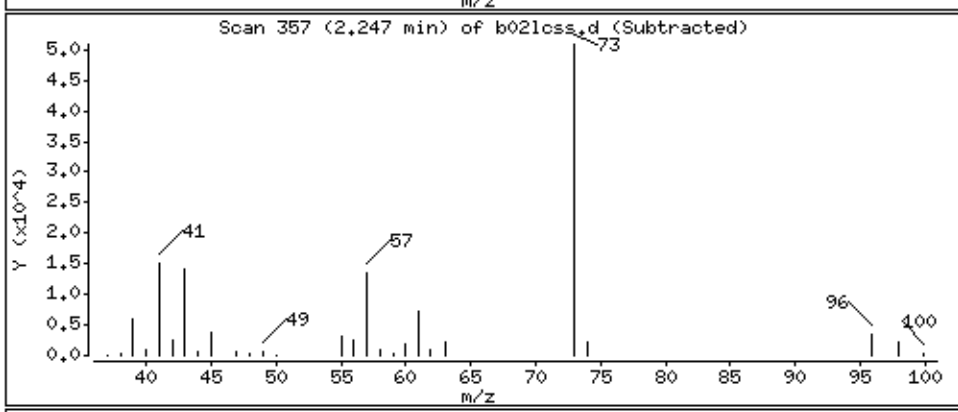
Column diameter: 0.18

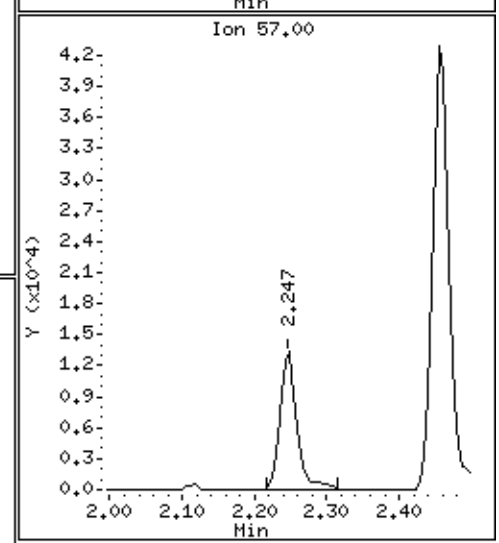
21 Methyl-tert-butyl ether

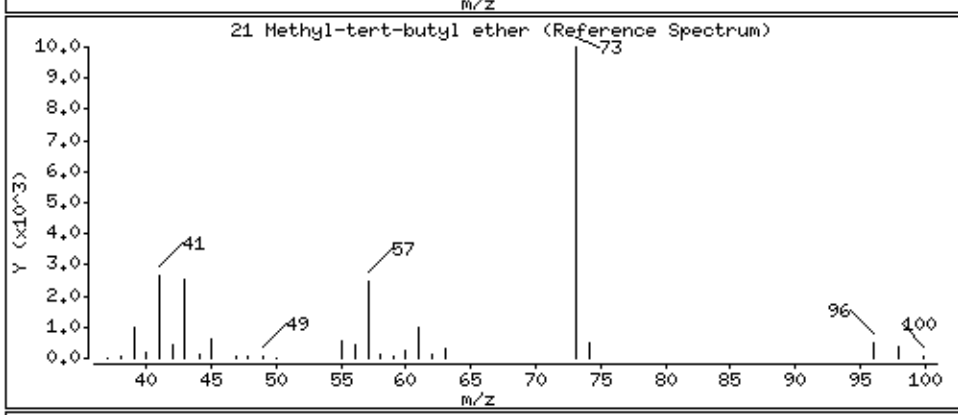
Concentration: 51.0 ppb

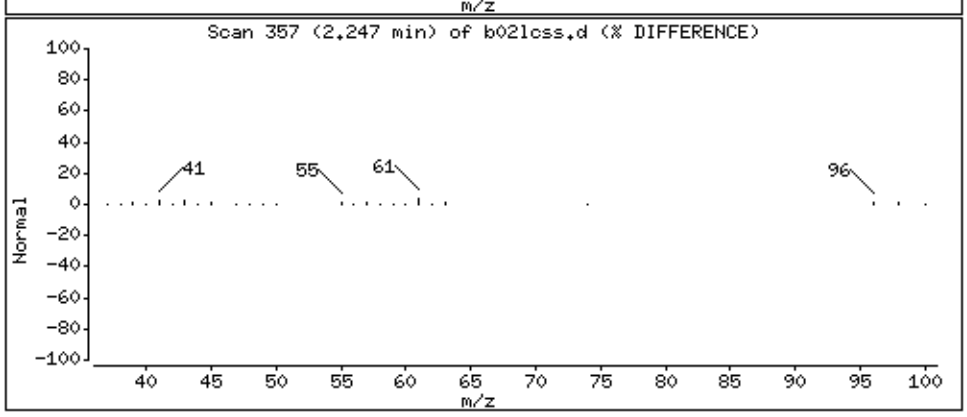












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

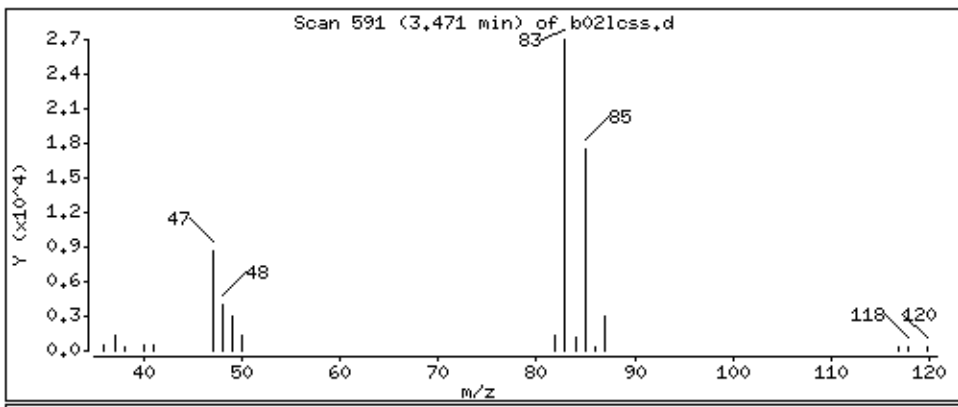
Operator: TMW

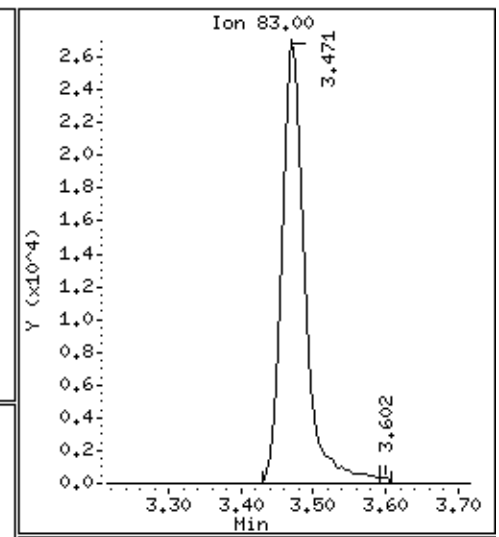
Column phase: DB-624

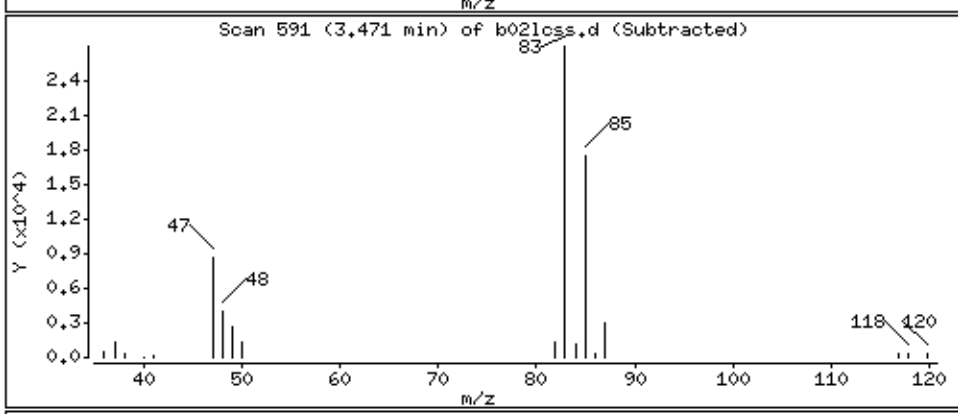
Column diameter: 0.18

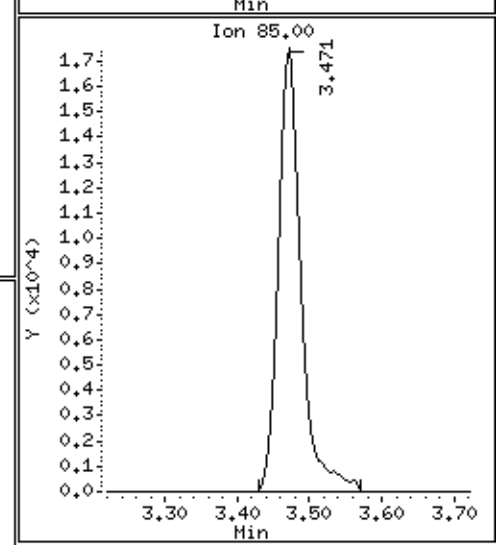
34 Chloroform

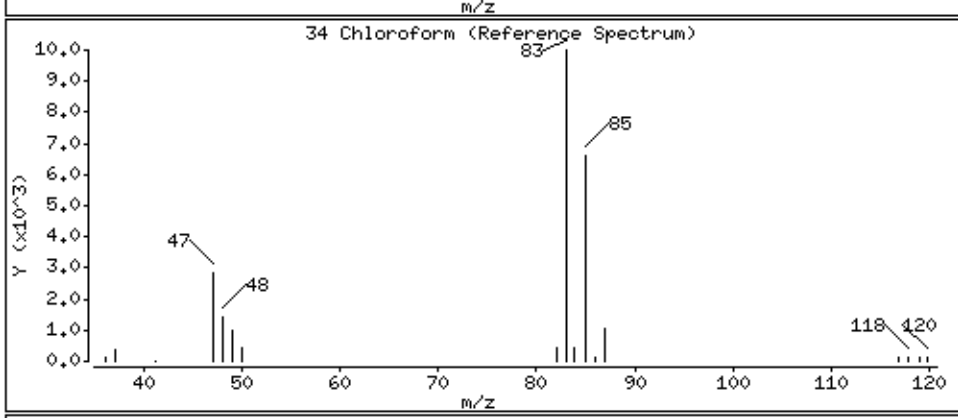
Concentration: 50.2 ppb

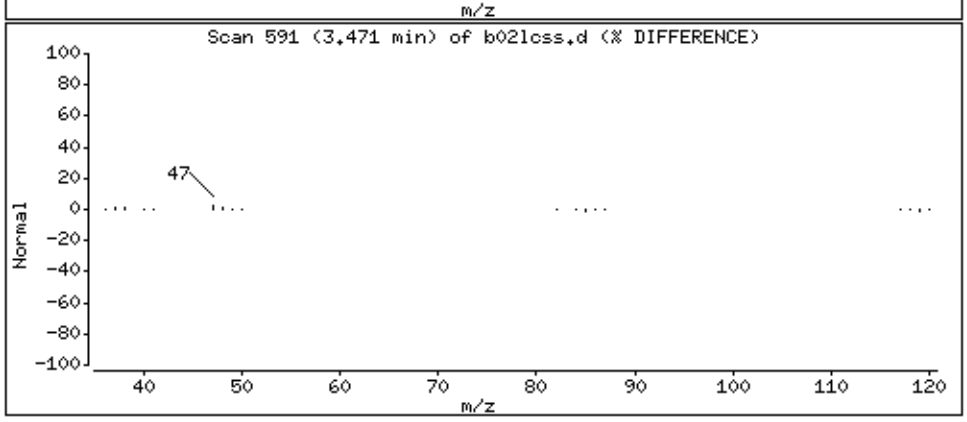












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

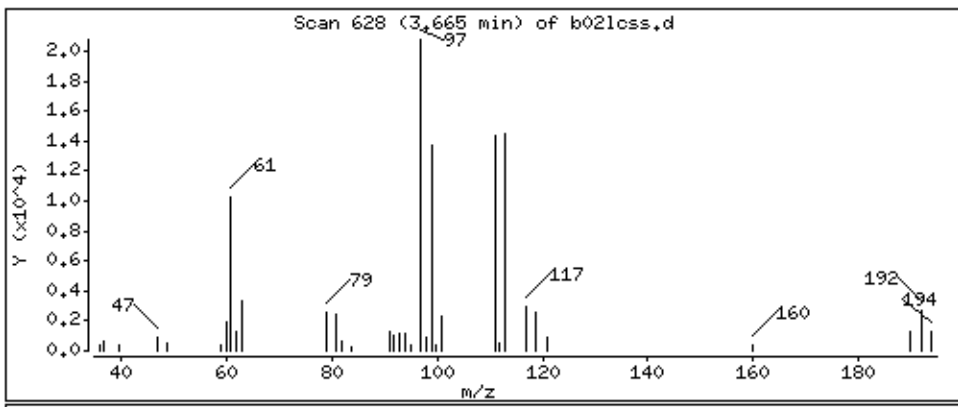
Operator: TMW

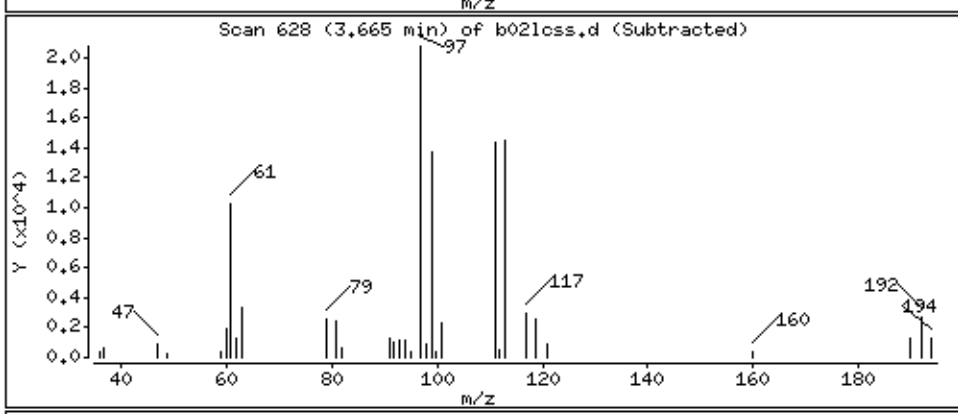
Column phase: DB-624

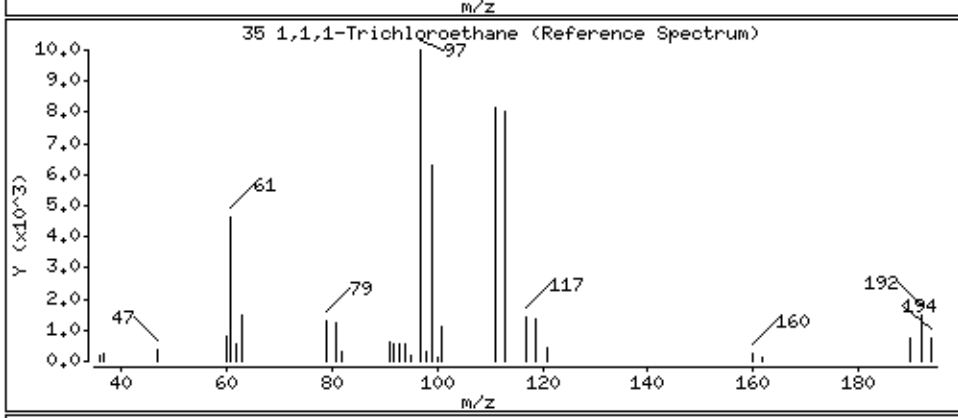
Column diameter: 0.18

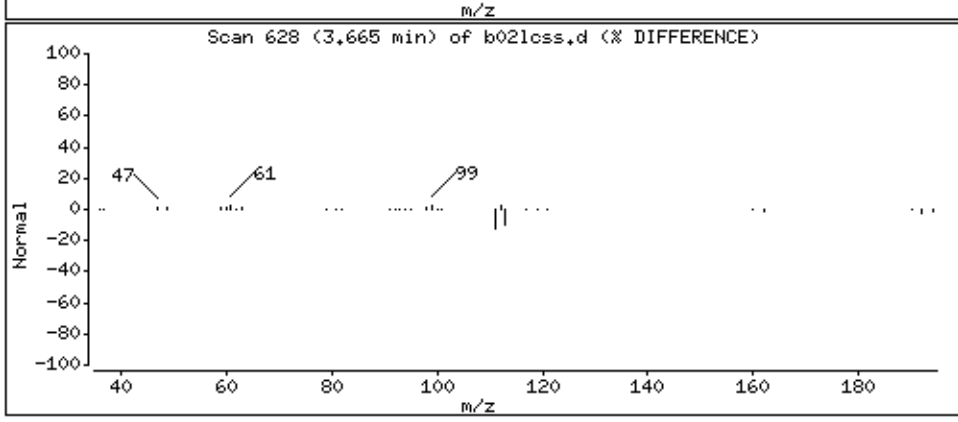
35 1,1,1-Trichloroethane

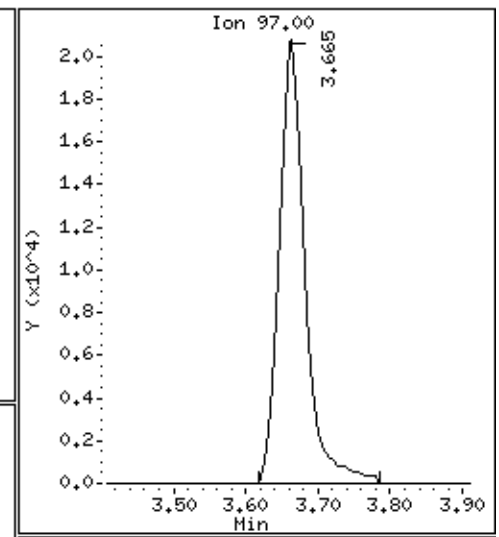
Concentration: 51.6 ppb

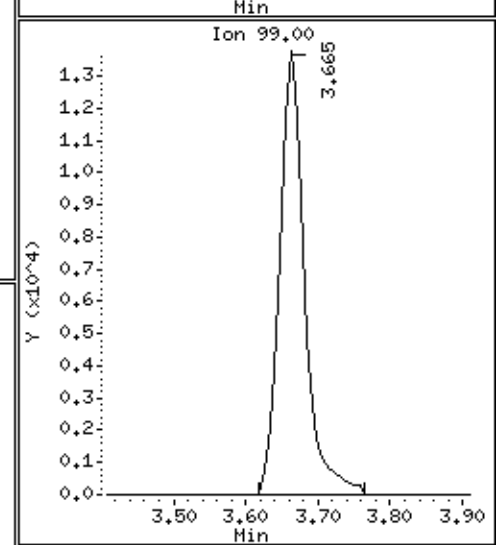


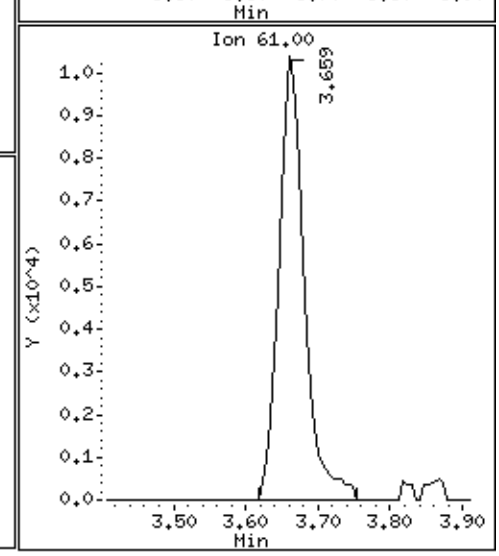












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

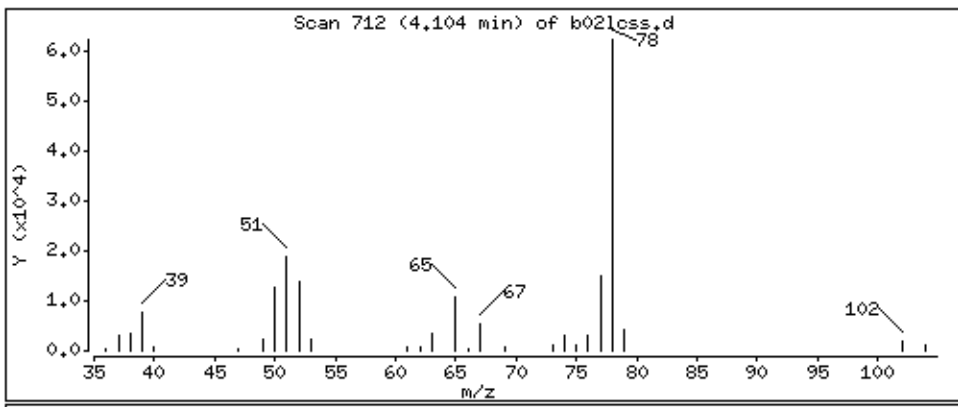
Operator: TMW

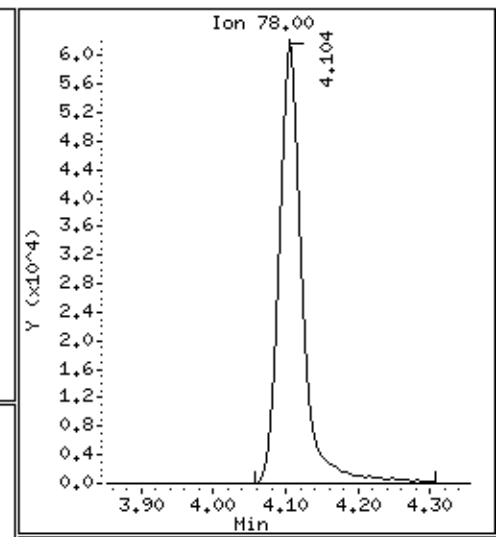
Column phase: DB-624

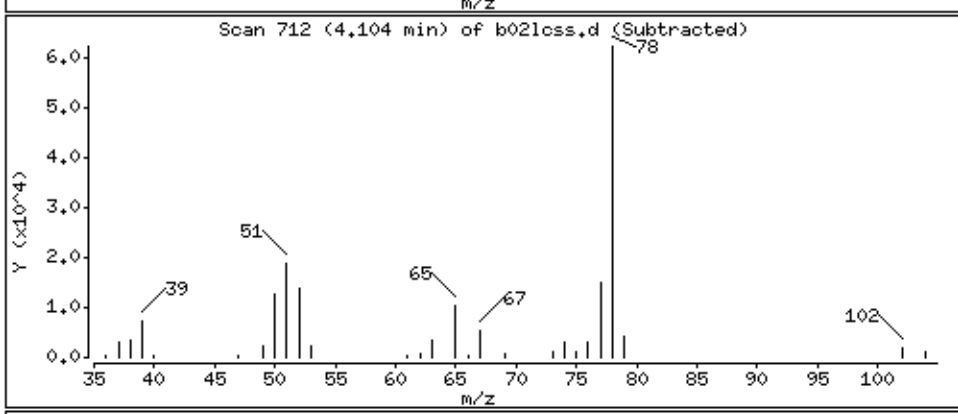
Column diameter: 0.18

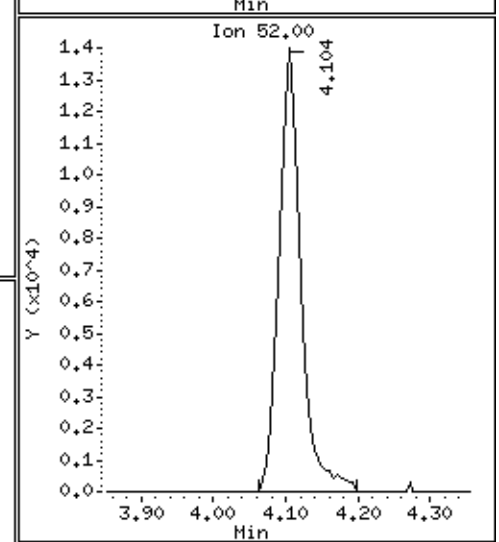
41 Benzene

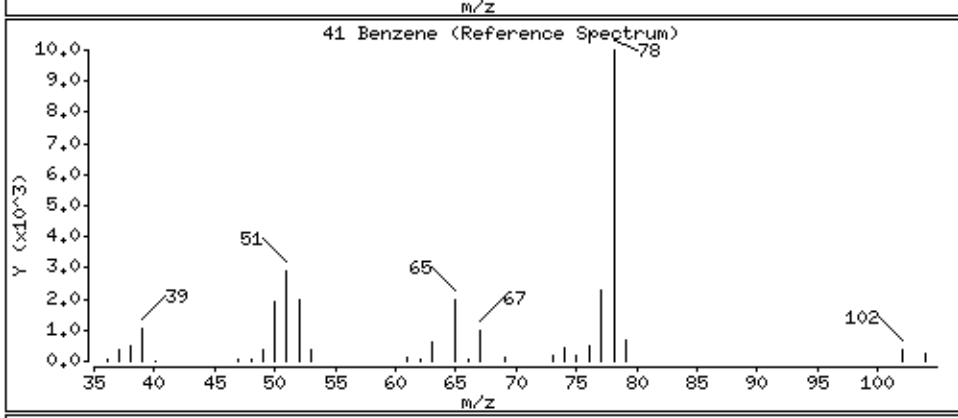
Concentration: 50.3 ppb

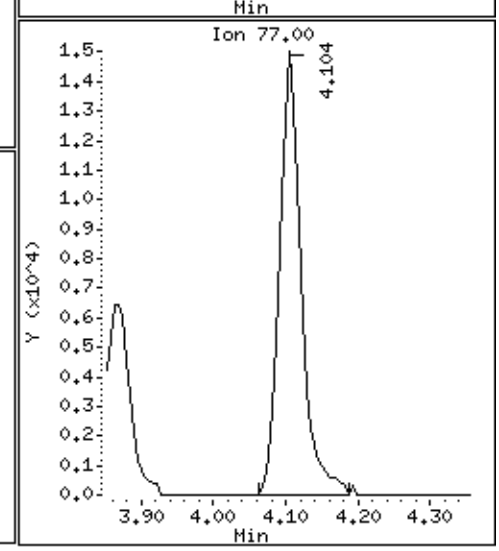


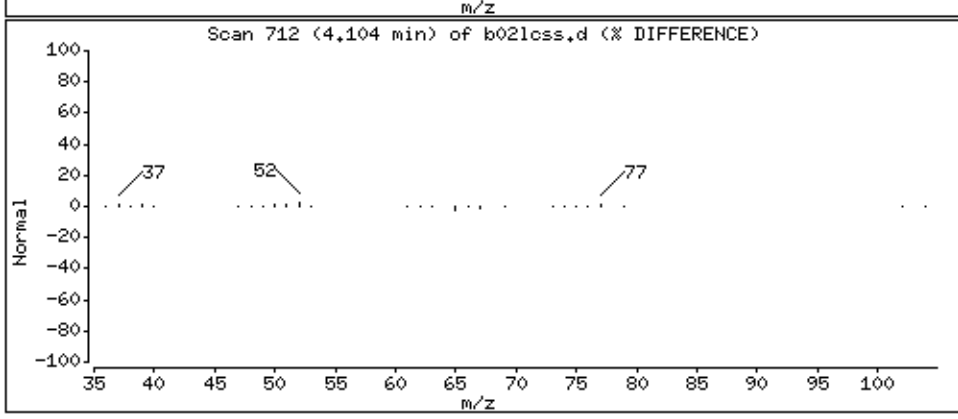












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

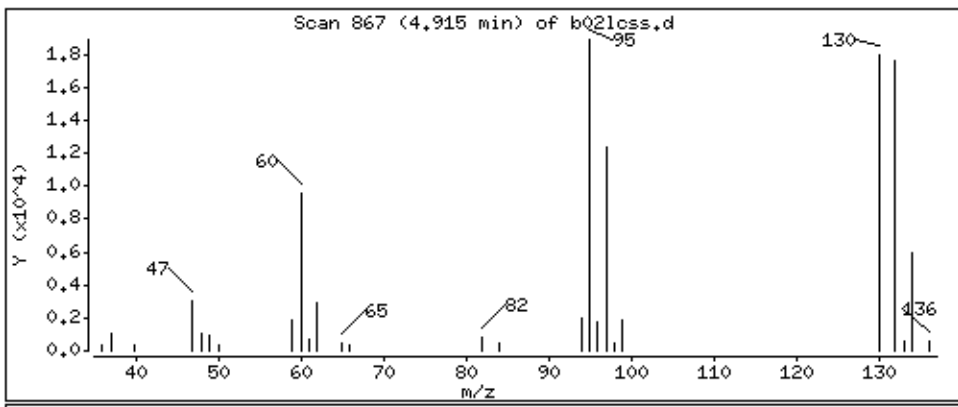
Operator: TMW

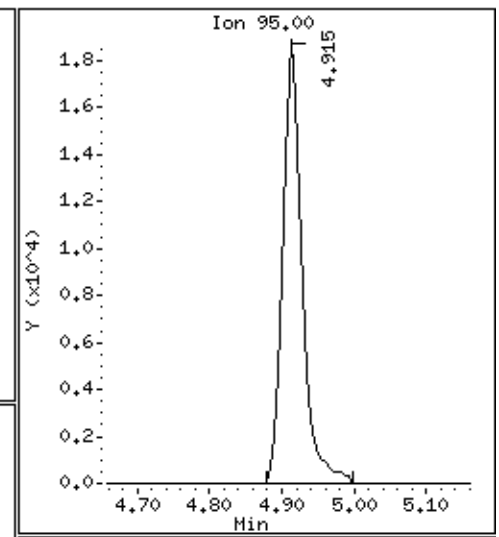
Column phase: DB-624

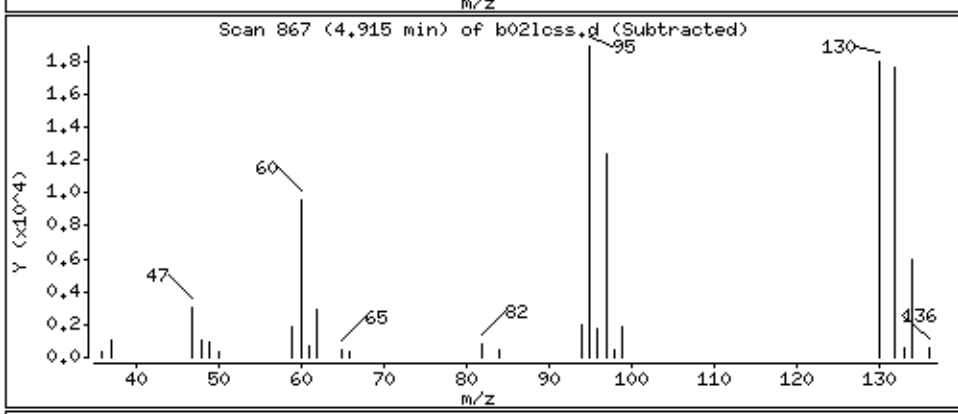
Column diameter: 0.18

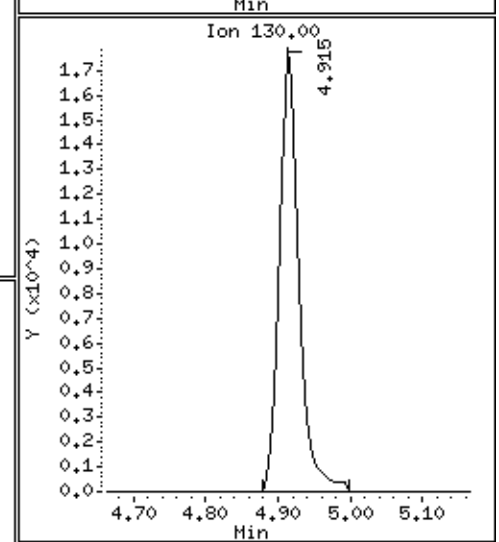
46 Trichloroethene

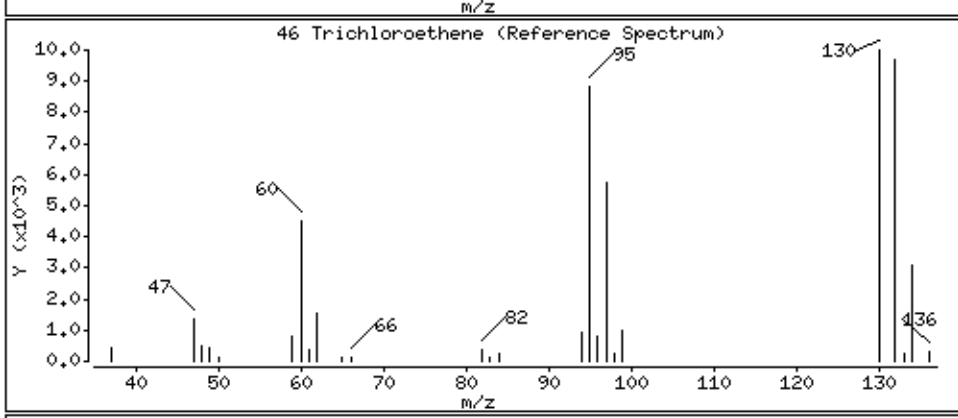
Concentration: 49.1 ppb

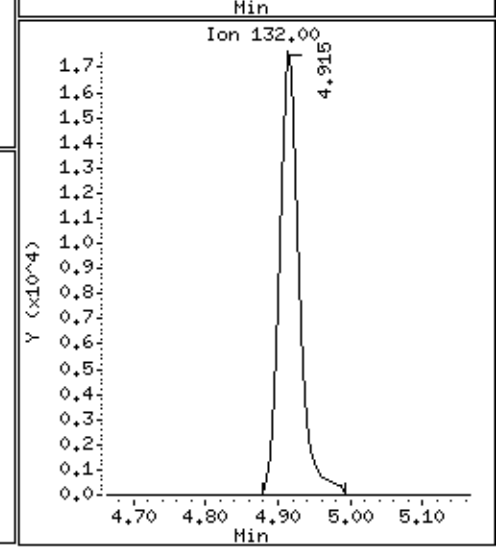


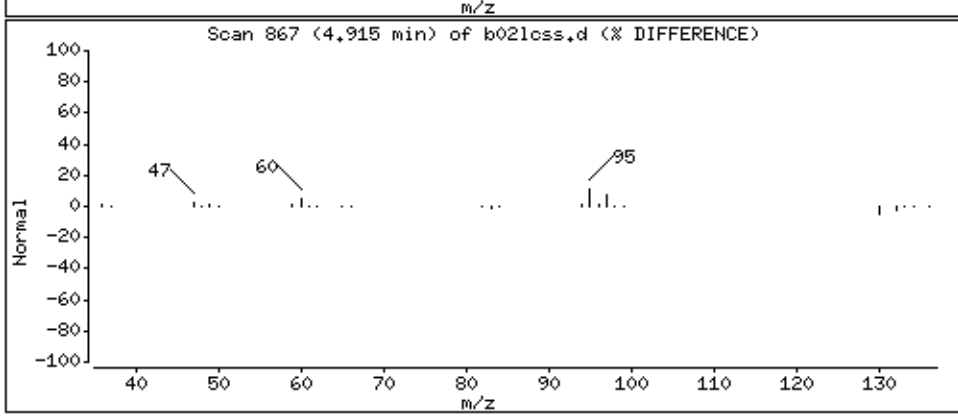












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

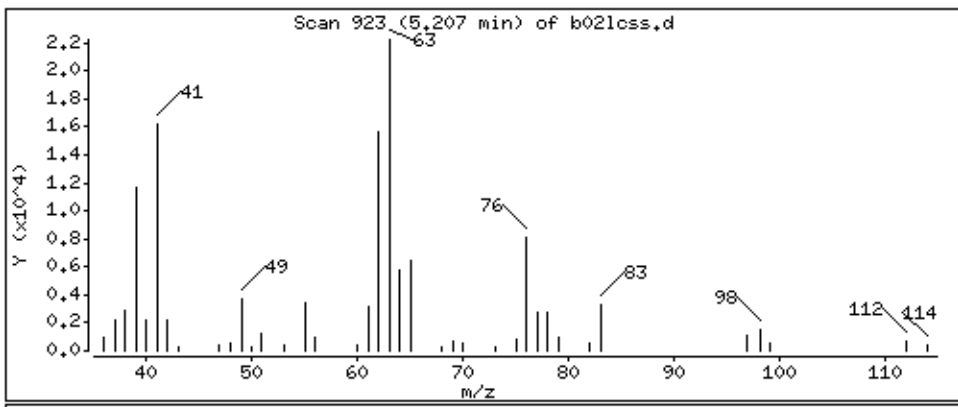
Operator: TMW

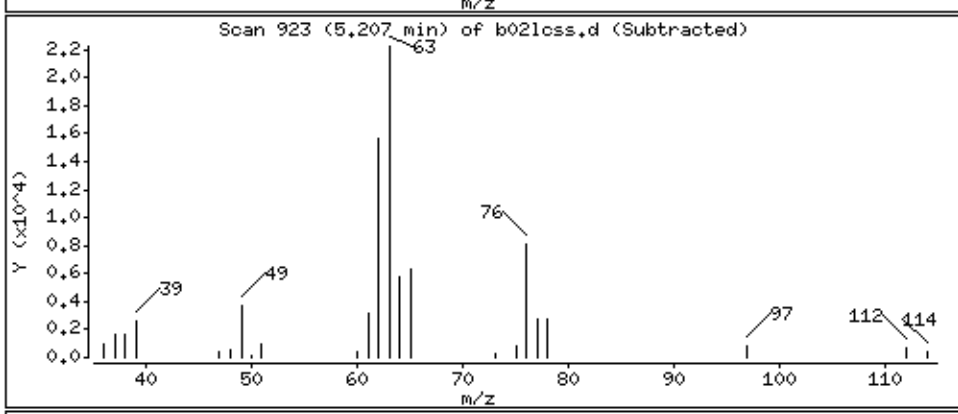
Column phase: DB-624

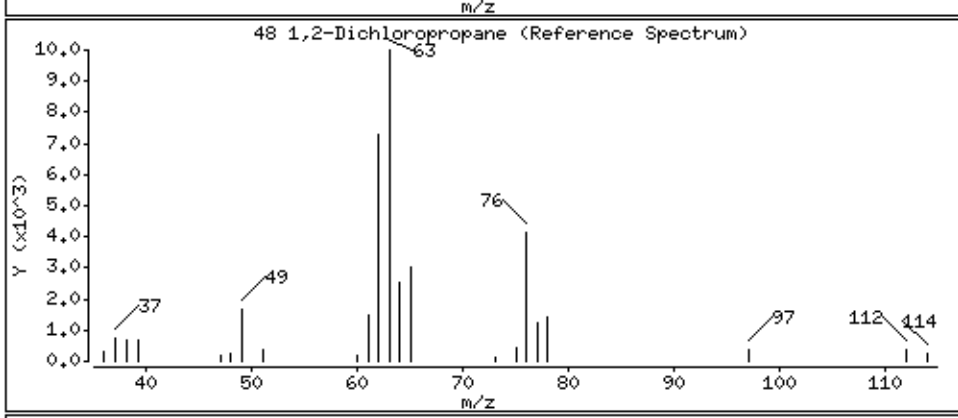
Column diameter: 0.18

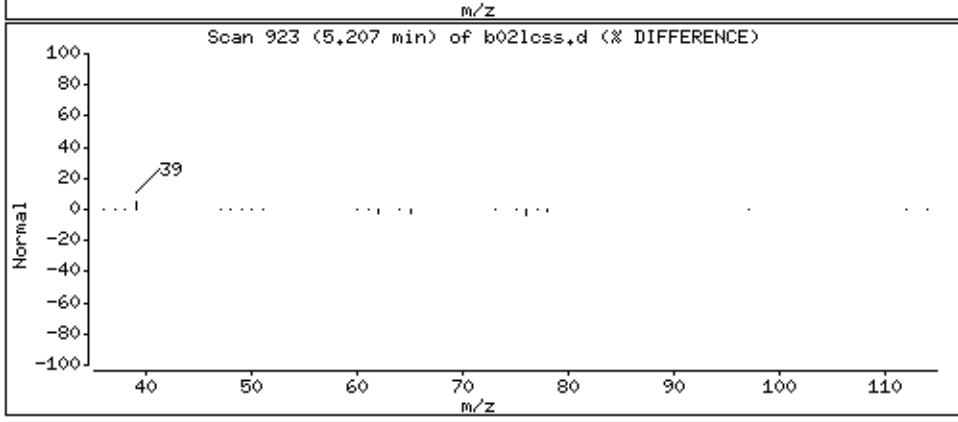
48 1,2-Dichloropropane

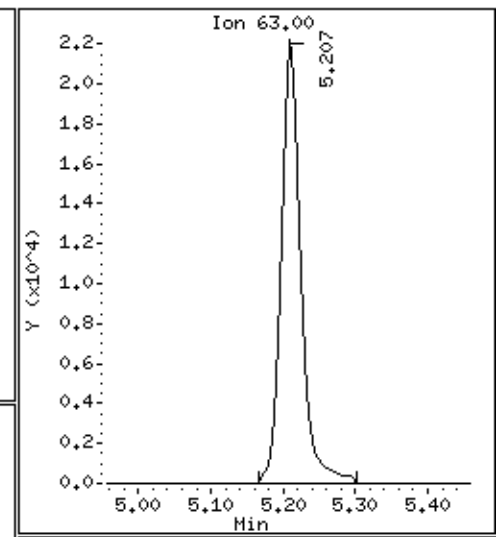
Concentration: 53.7 ppb

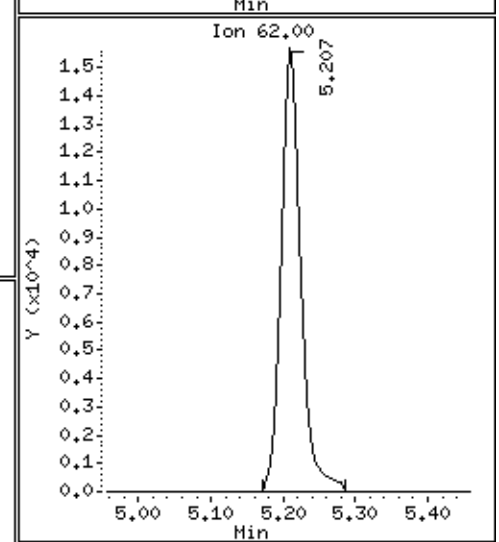


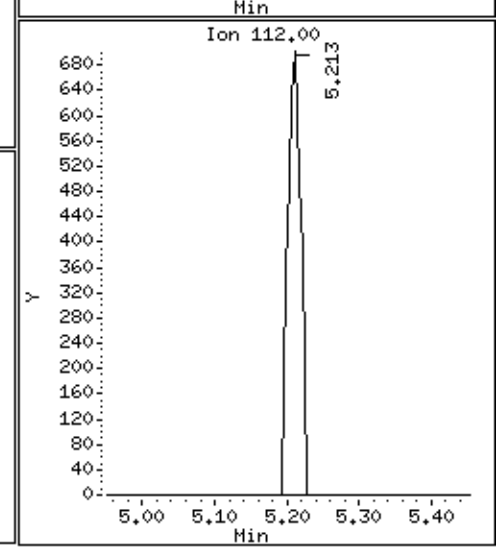












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

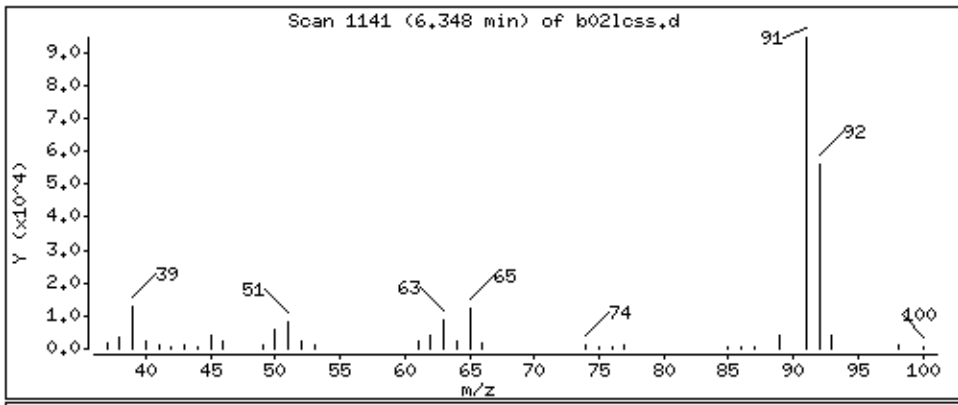
Operator: TMW

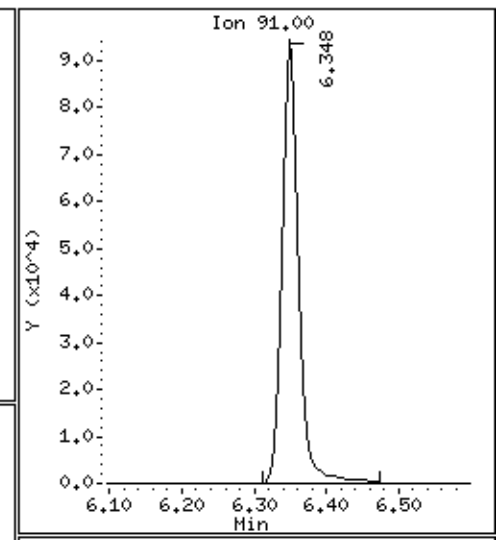
Column phase: DB-624

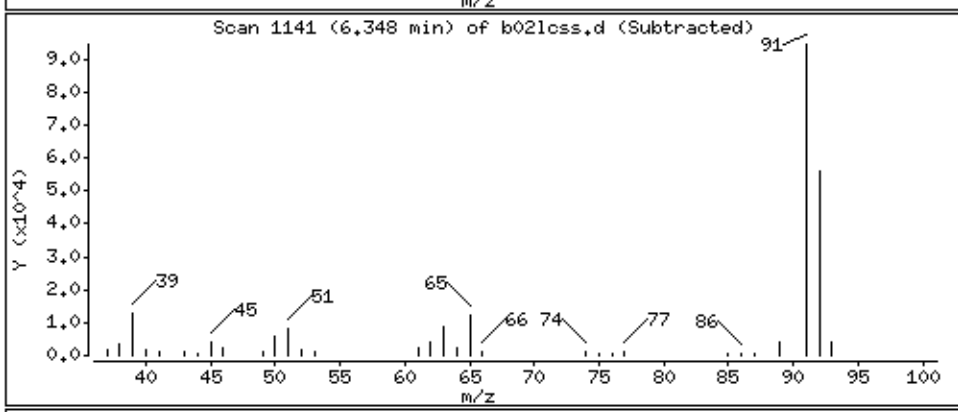
Column diameter: 0.18

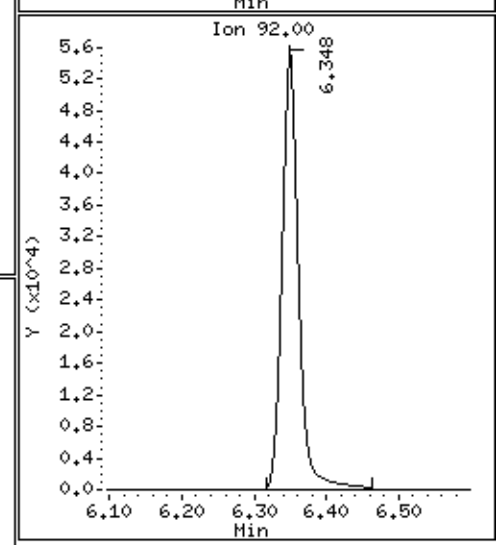
57 Toluene

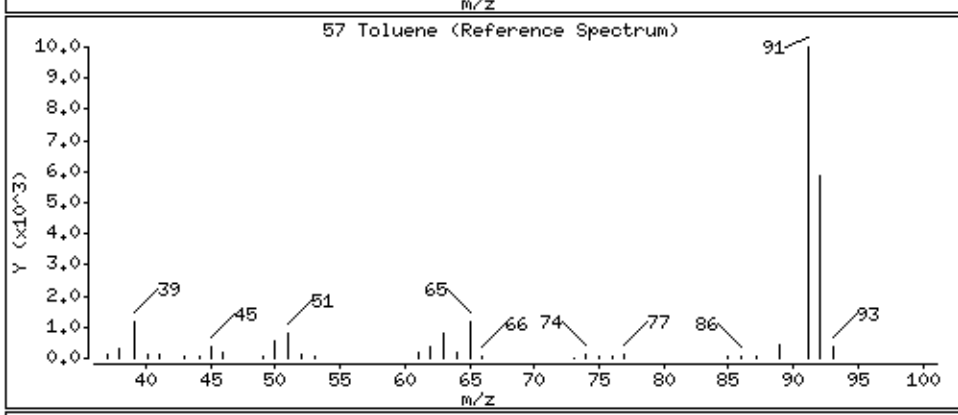
Concentration: 57.3 ppb

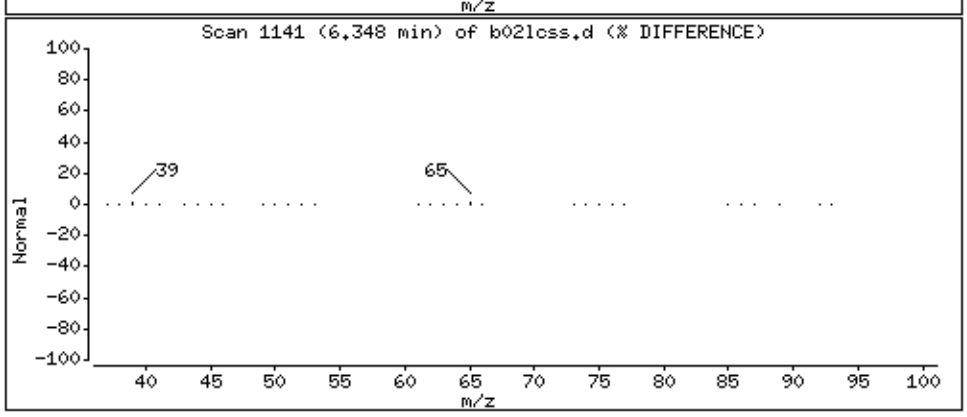












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Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

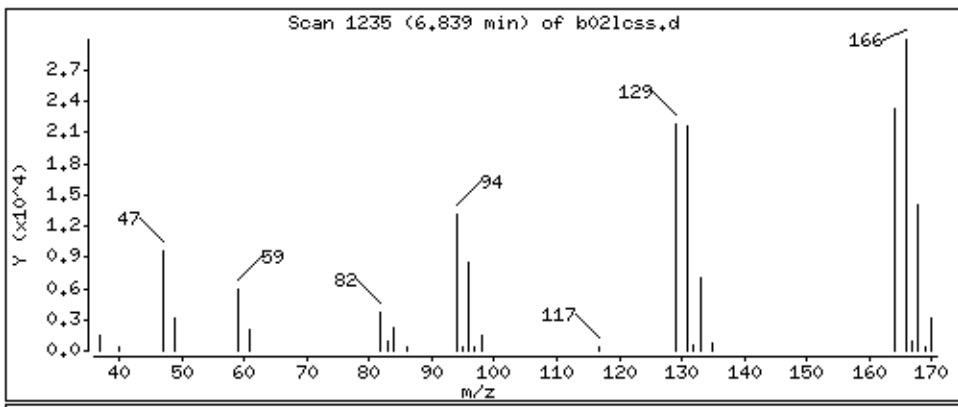
Operator: TMW

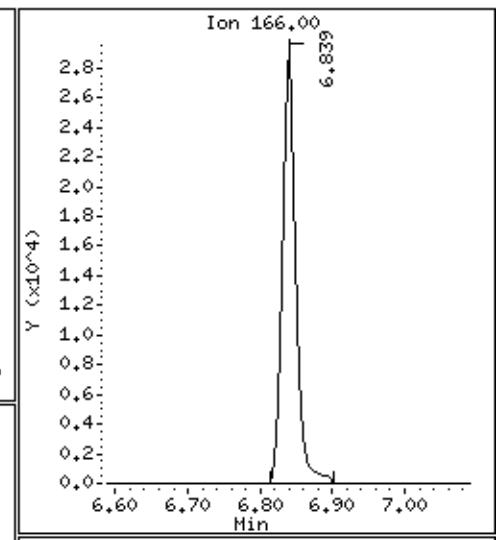
Column phase: DB-624

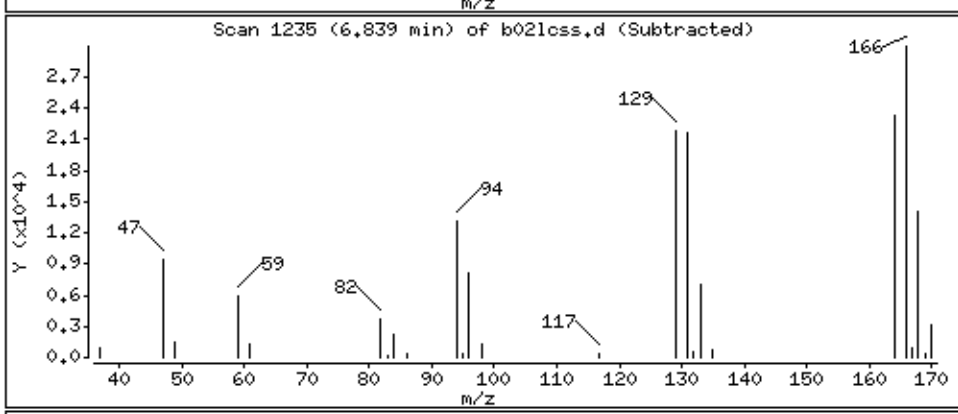
Column diameter: 0.18

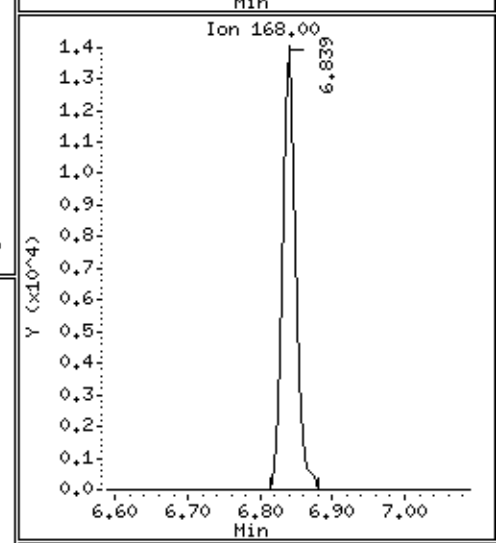
61 Tetrachloroethene

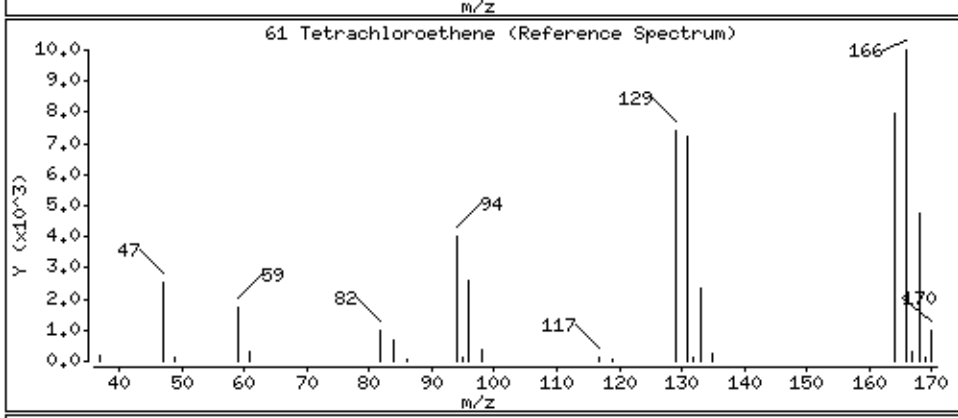
Concentration: 56.7 ppb

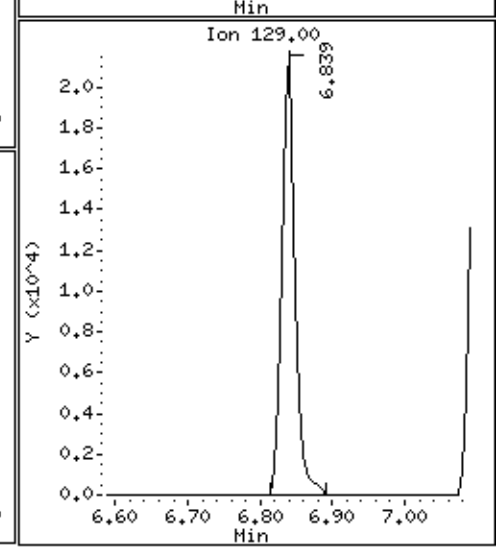


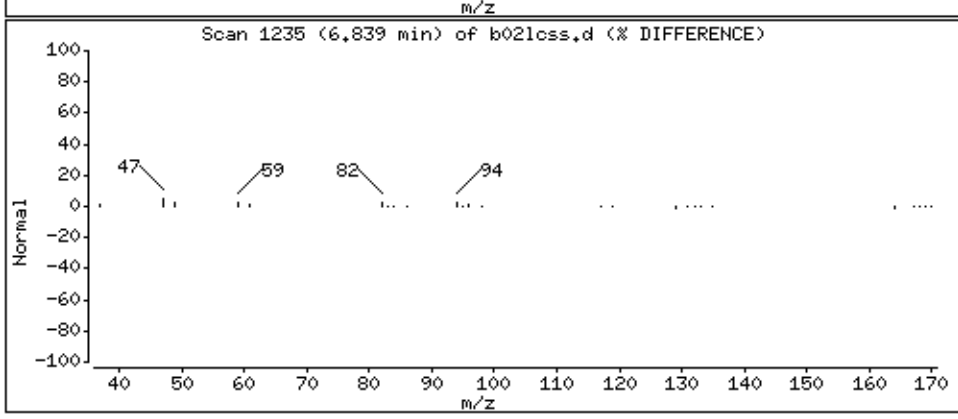












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

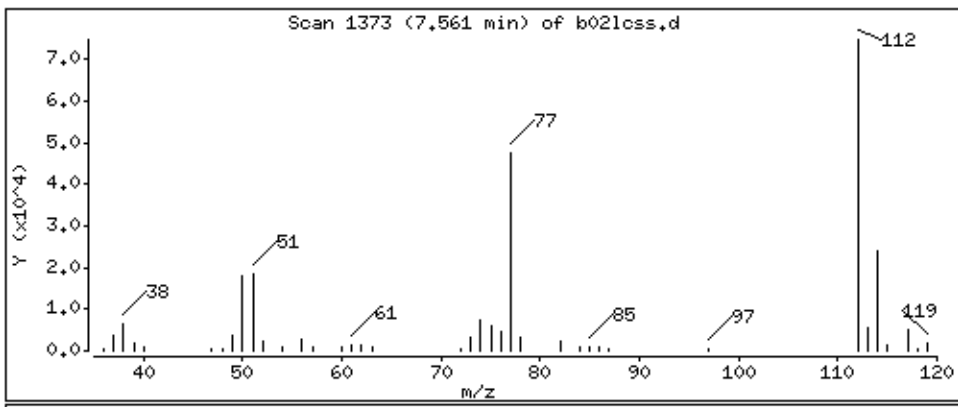
Operator: TMW

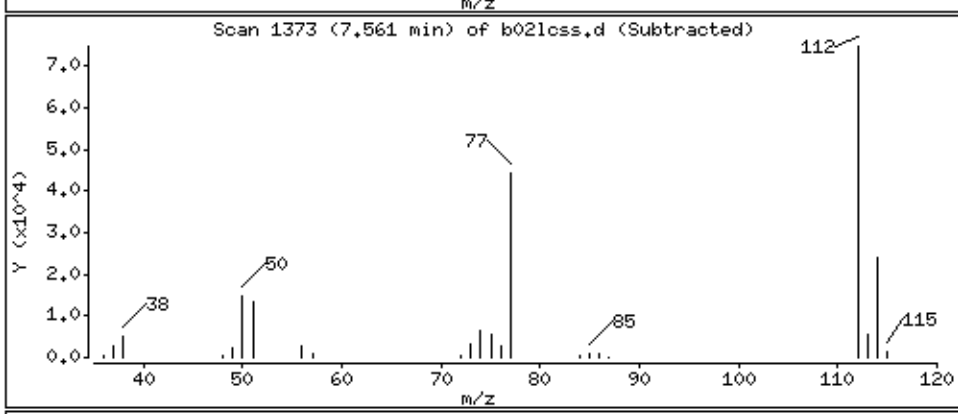
Column phase: DB-624

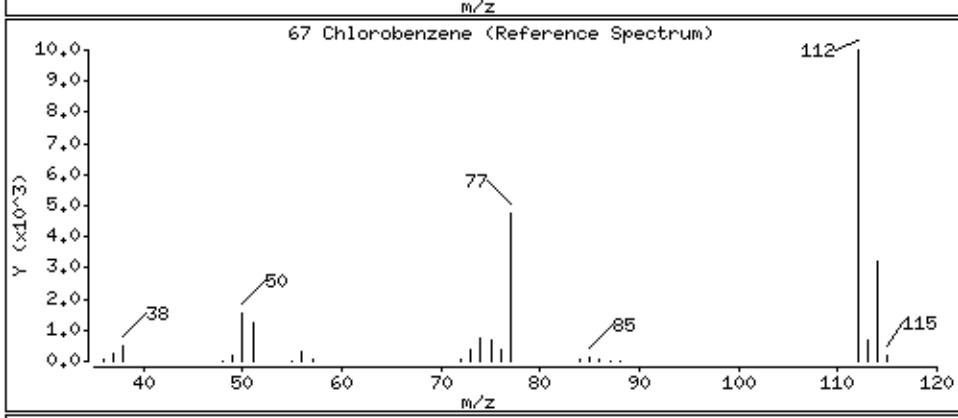
Column diameter: 0.18

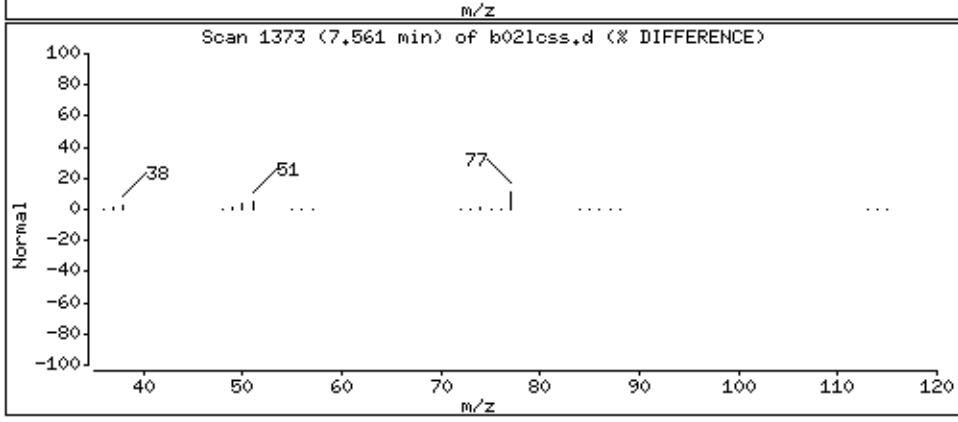
67 Chlorobenzene

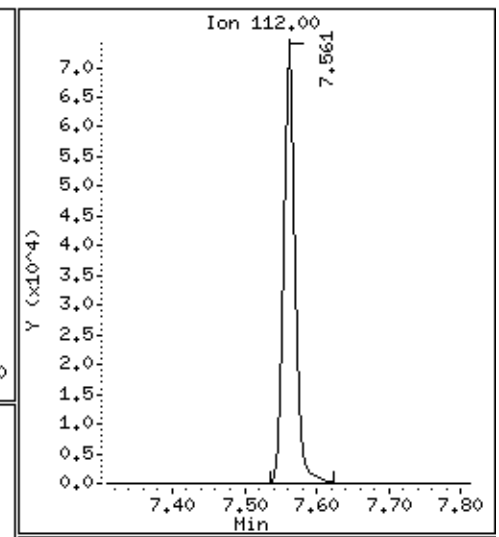
Concentration: 47.0 ppb

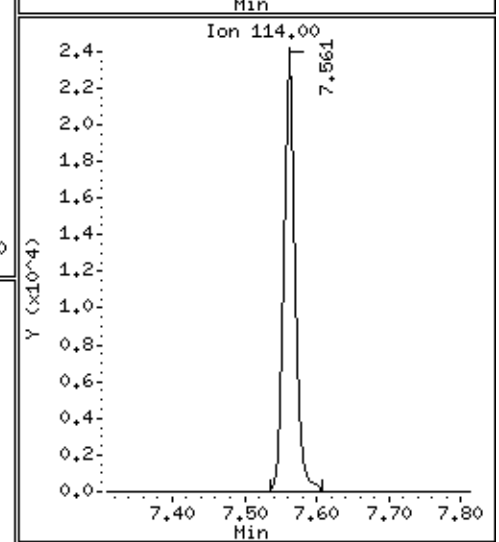


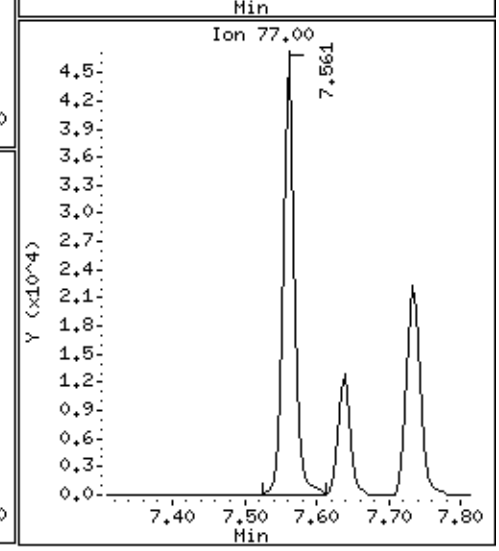












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

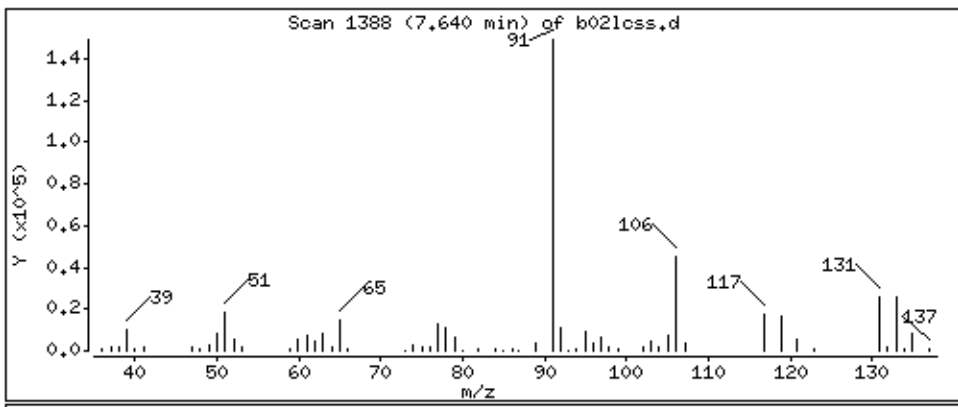
Operator: TMW

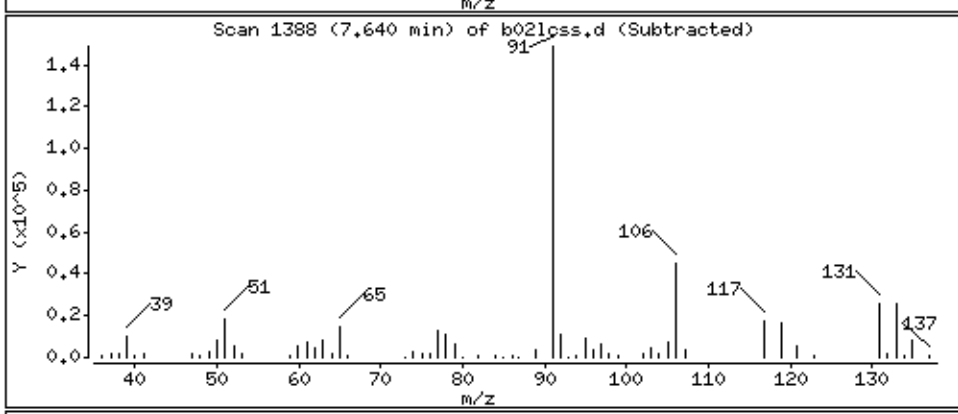
Column phase: DB-624

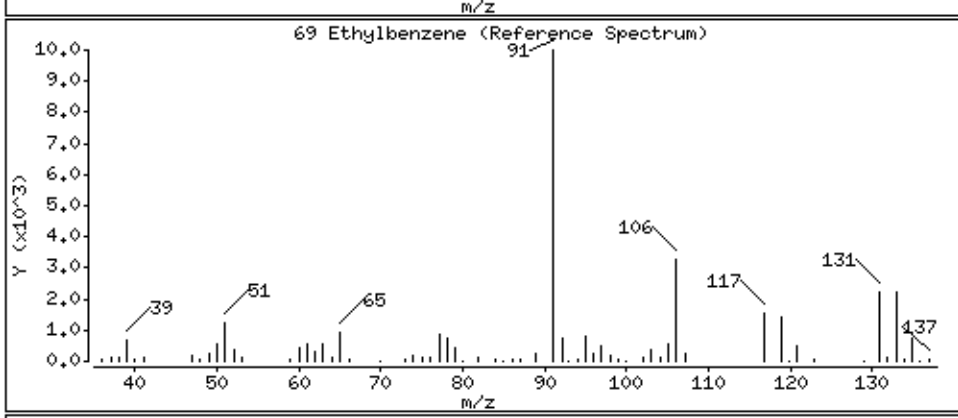
Column diameter: 0.18

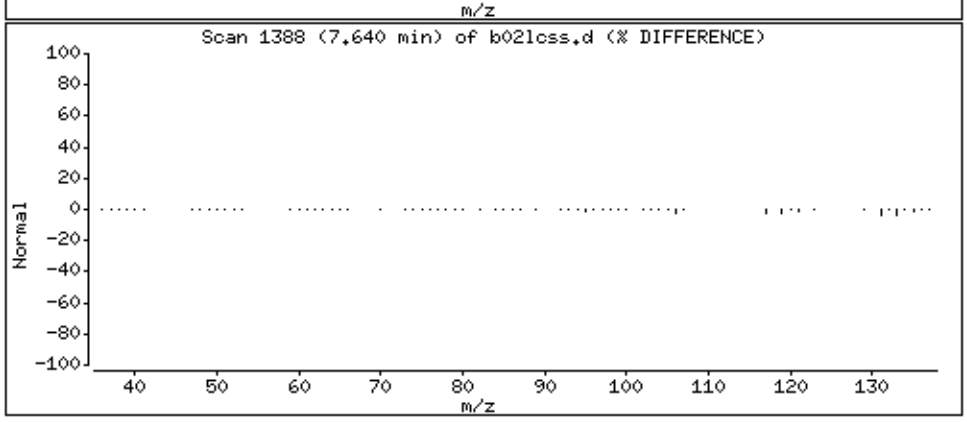
69 Ethylbenzene

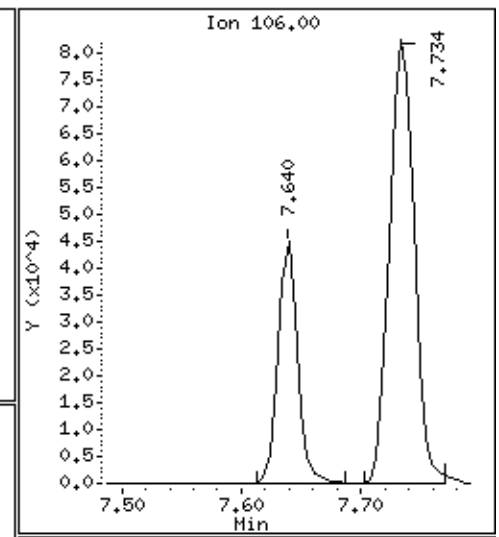
Concentration: 49.9 ppb

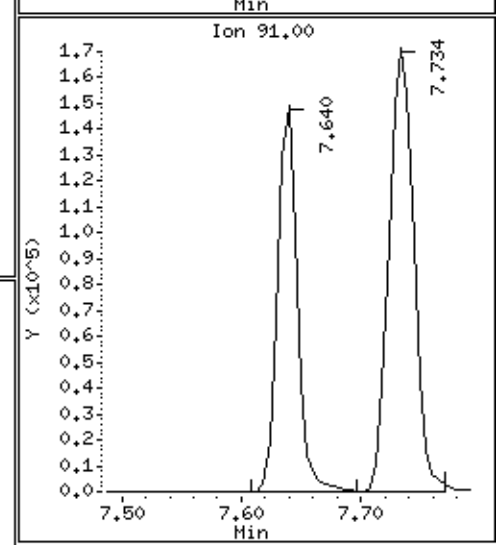












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

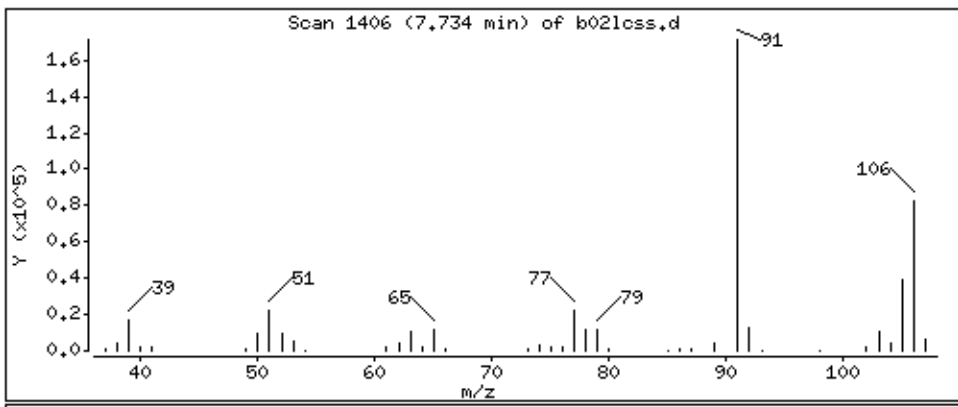
Operator: TMW

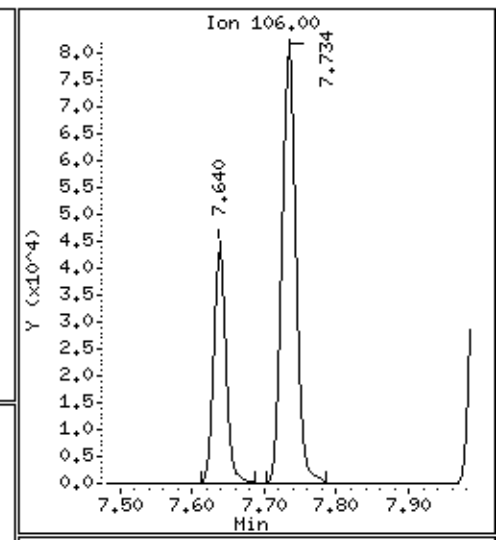
Column phase: DB-624

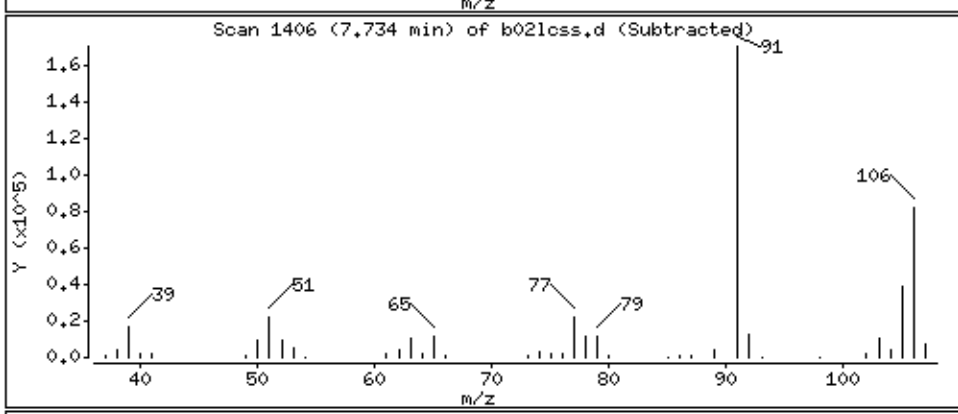
Column diameter: 0.18

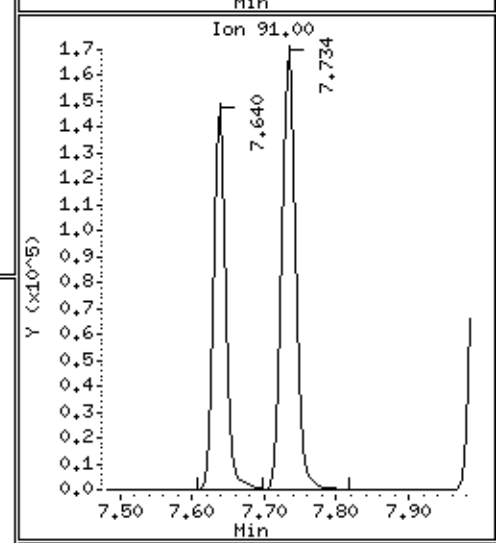
70 m&p-Xylene

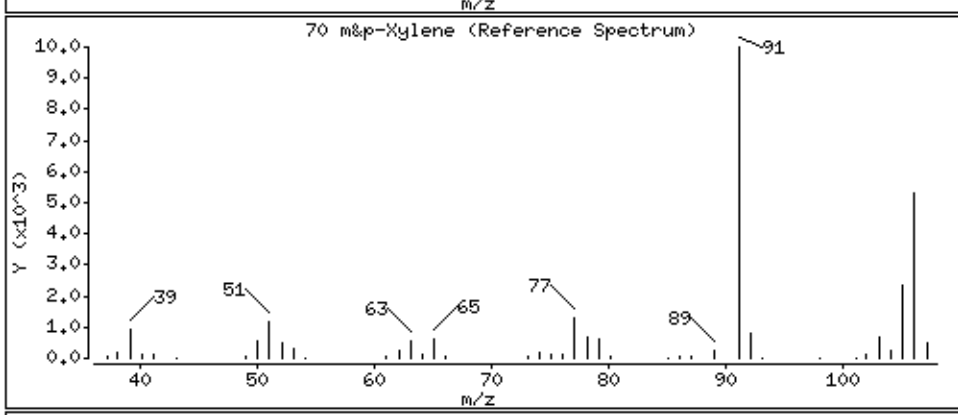
Concentration: 93.1 ppb

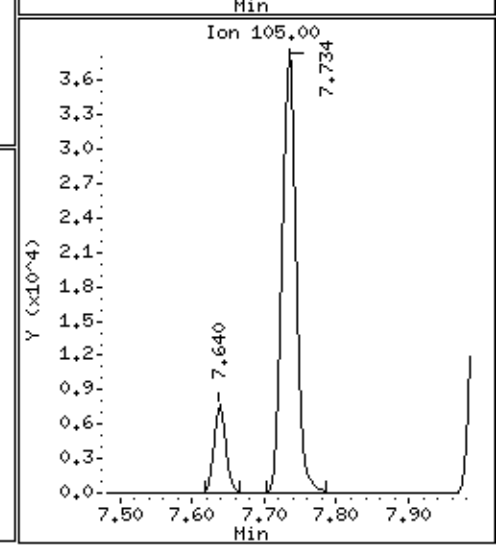


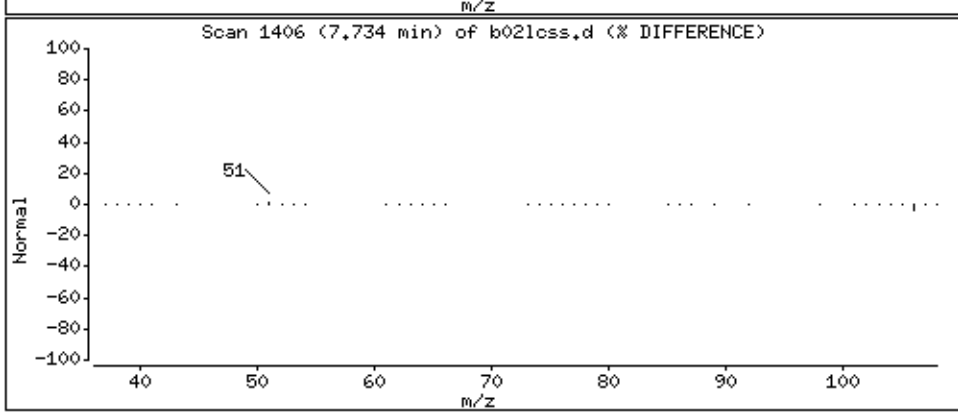












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

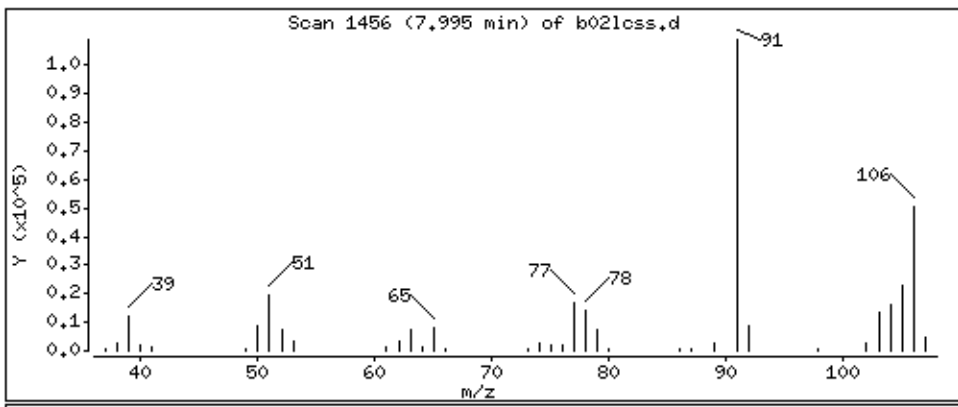
Operator: TMW

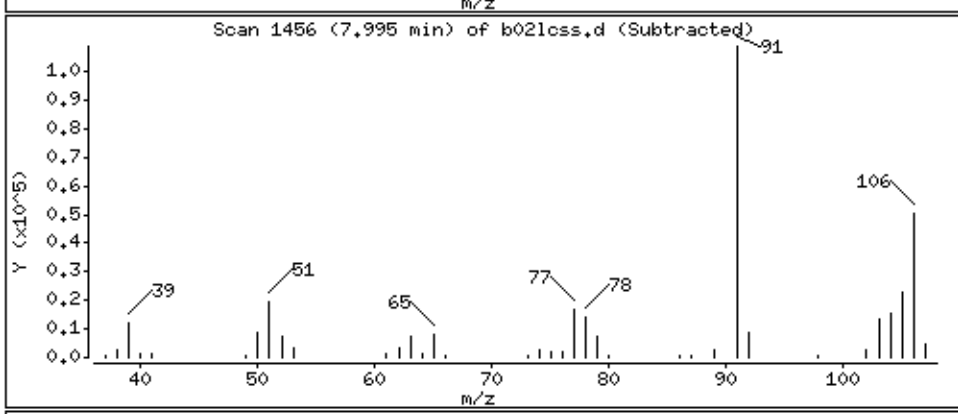
Column phase: DB-624

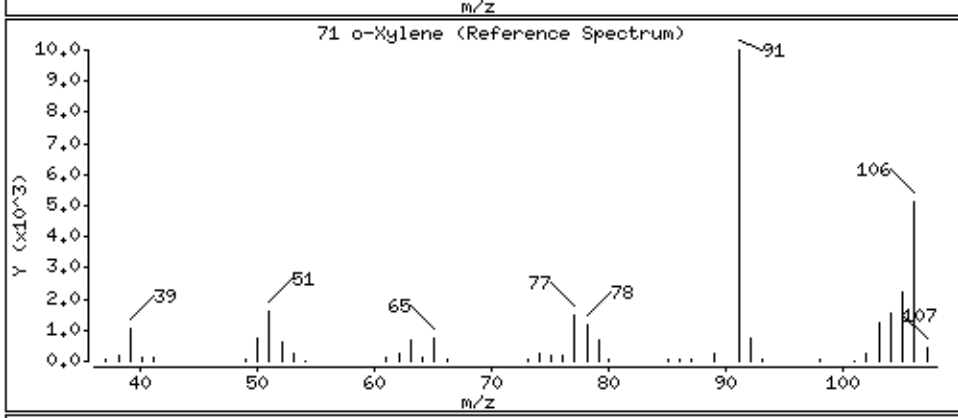
Column diameter: 0.18

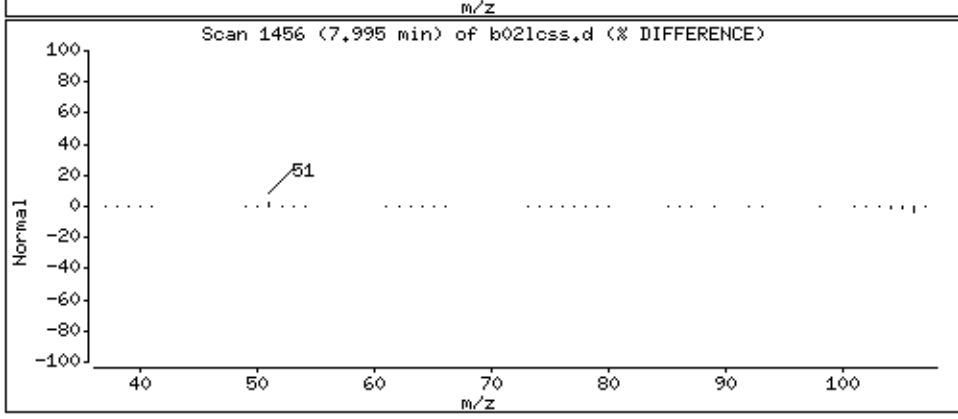
71 o-Xylene

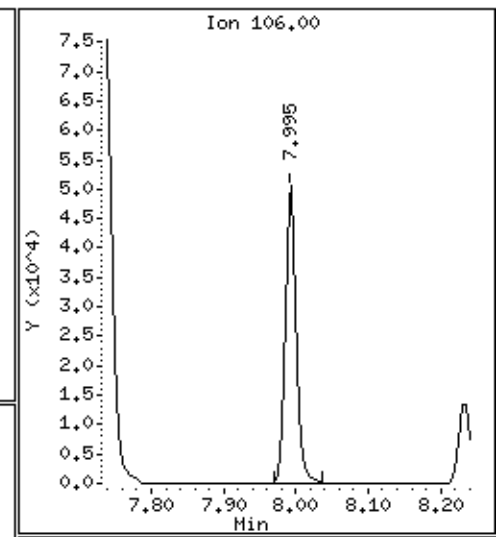
Concentration: 46.1 ppb

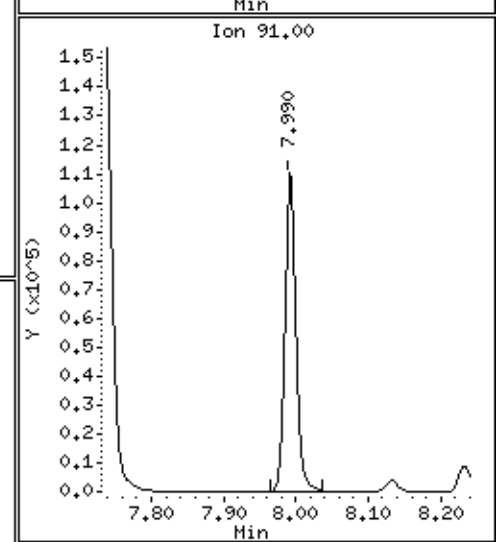


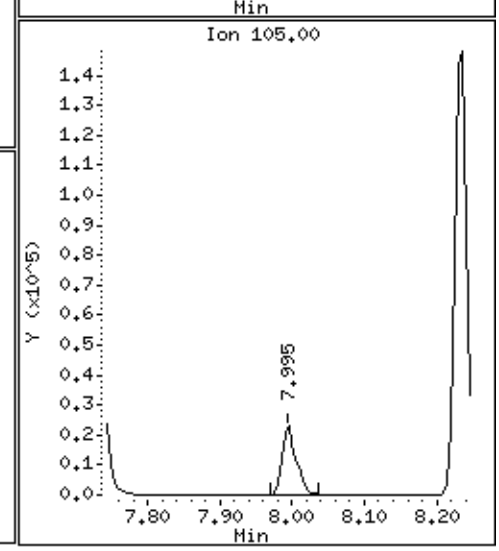












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

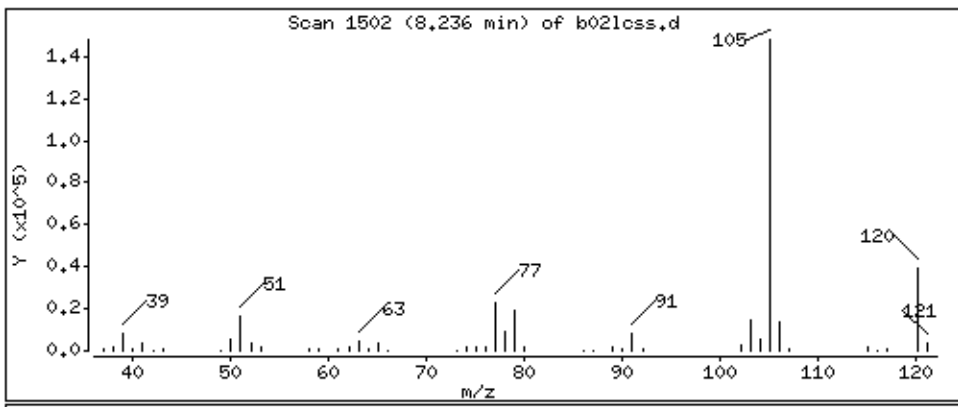
Operator: TMW

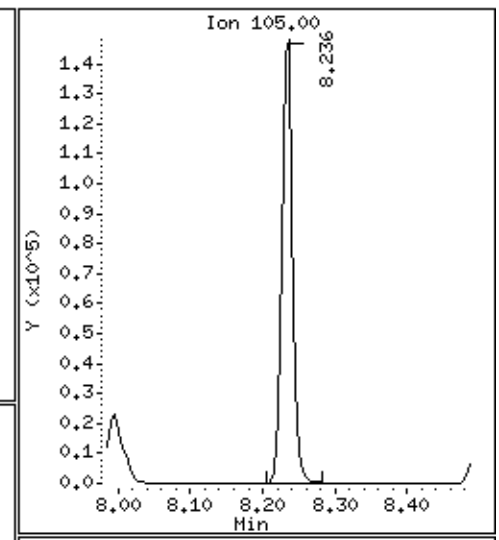
Column phase: DB-624

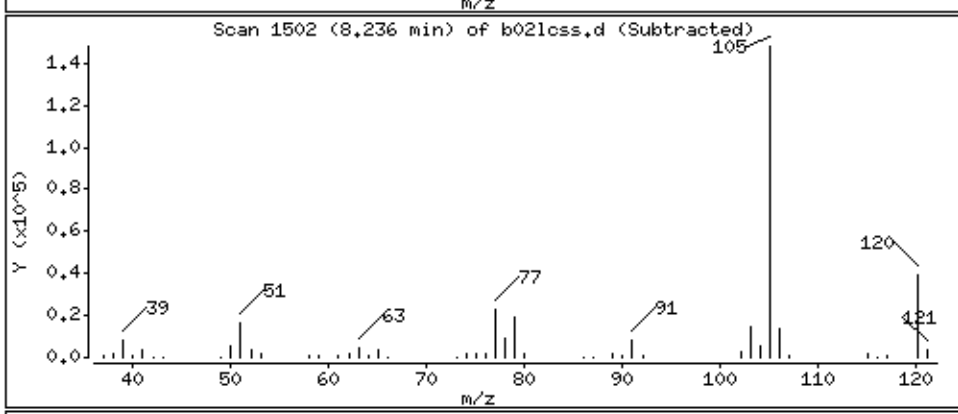
Column diameter: 0.18

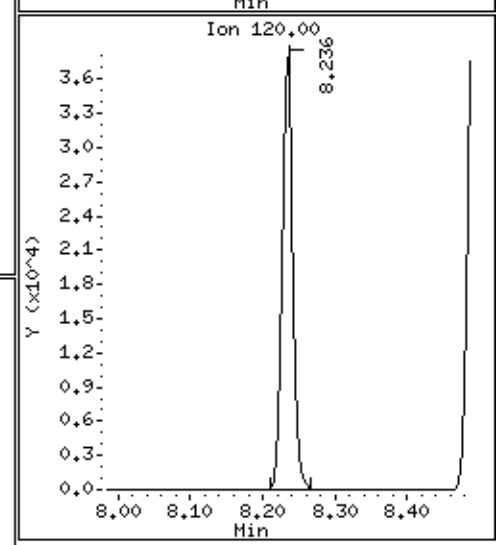
74 Isopropylbenzene

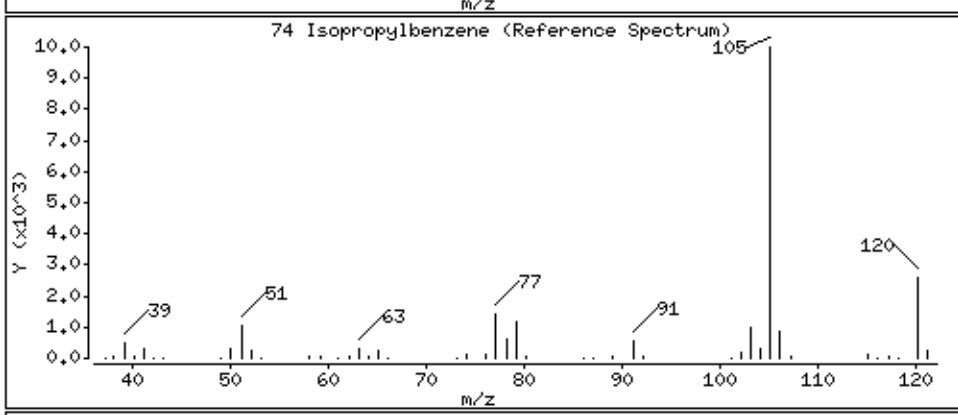
Concentration: 47.4 ppb

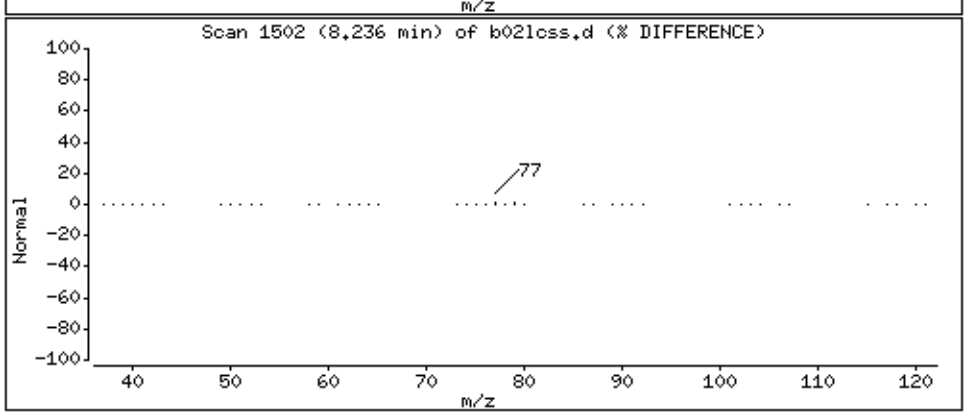












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

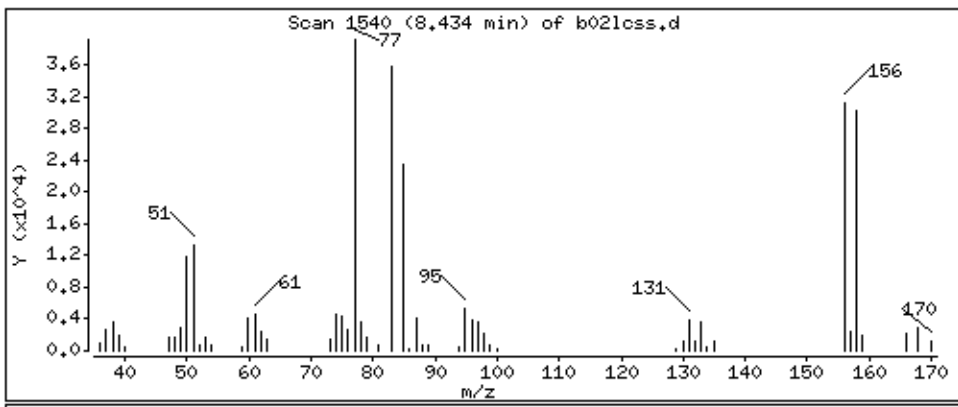
Operator: TMW

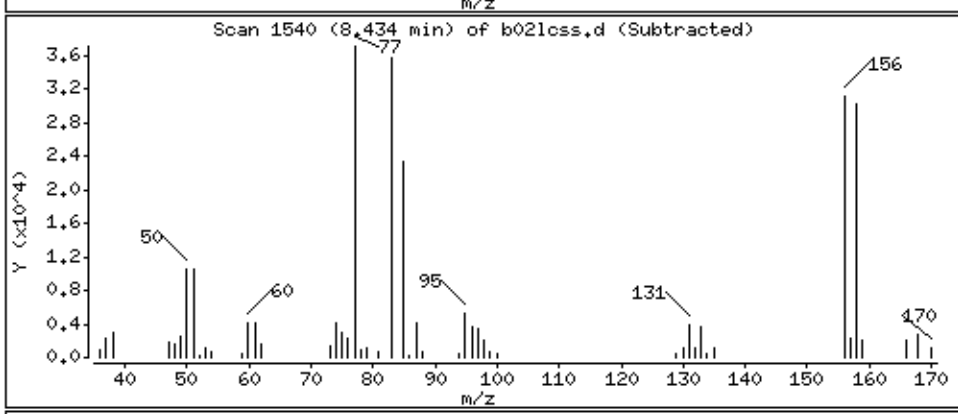
Column phase: DB-624

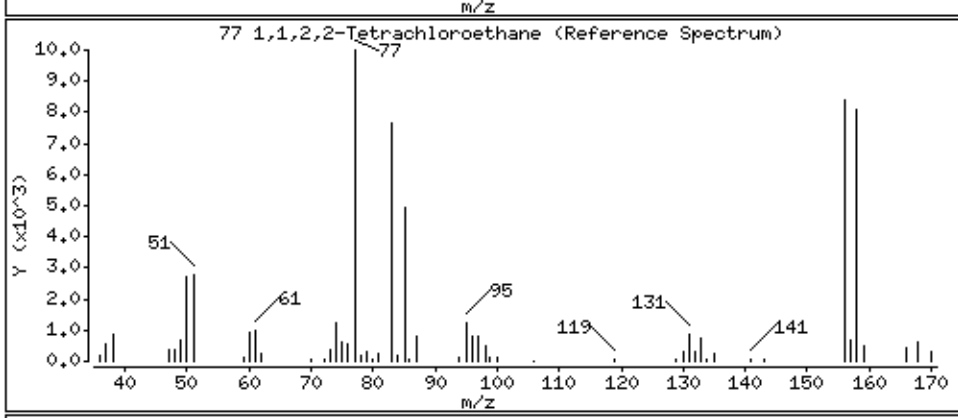
Column diameter: 0.18

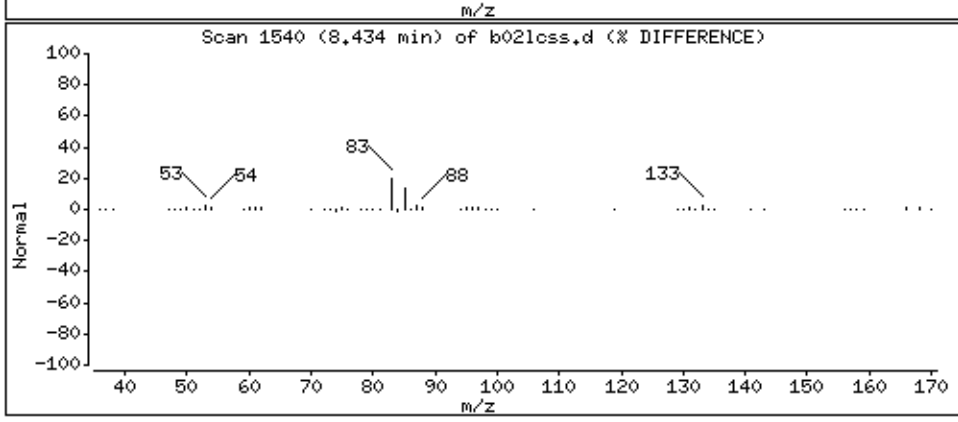
77 1,1,2,2-Tetrachloroethane

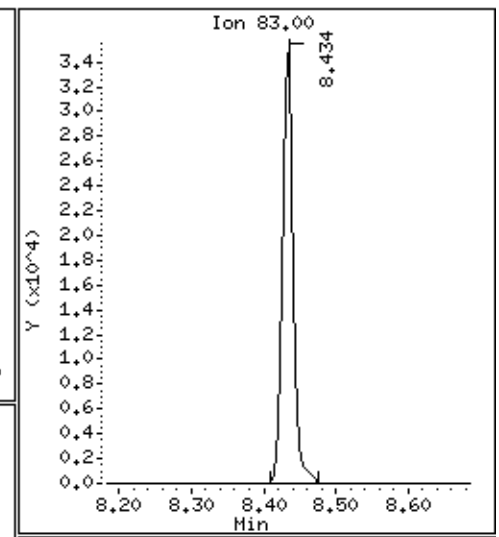
Concentration: 50.2 ppb

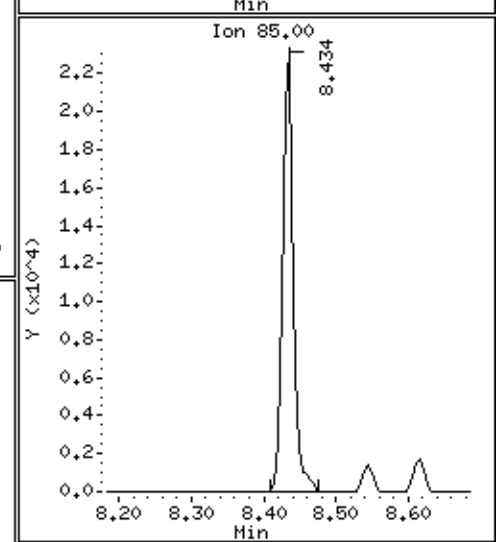


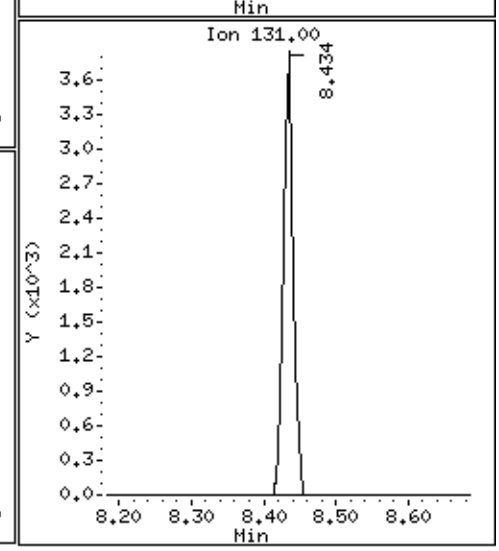












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

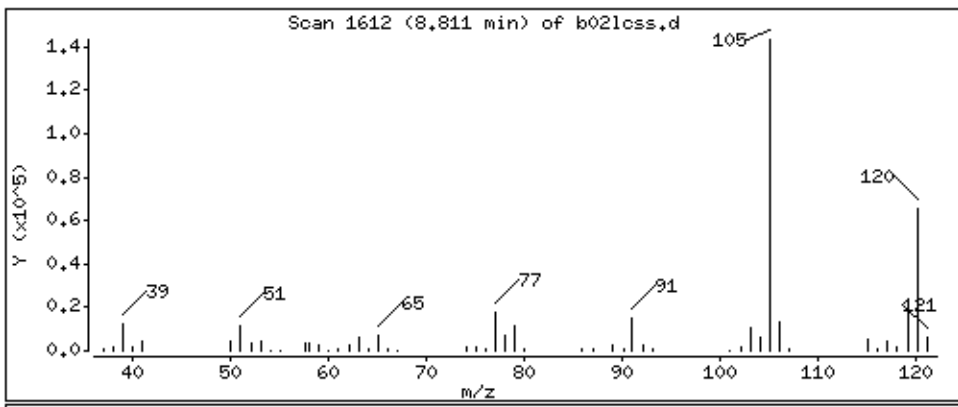
Operator: TMW

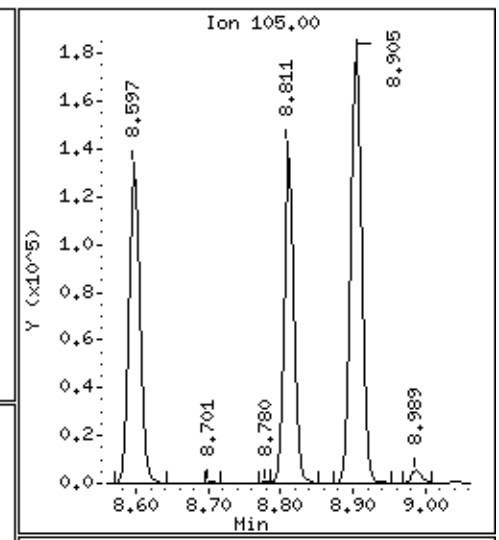
Column phase: DB-624

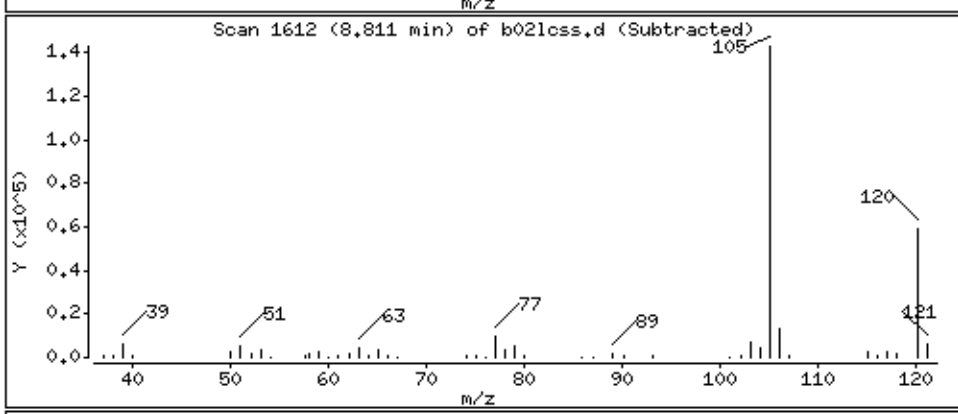
Column diameter: 0.18

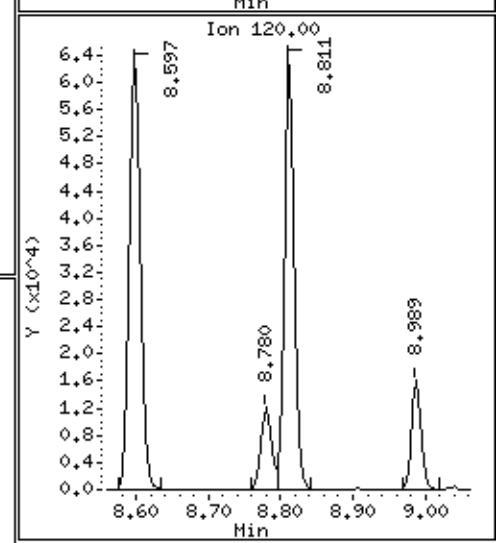
85 1,2,4-Trimethylbenzene

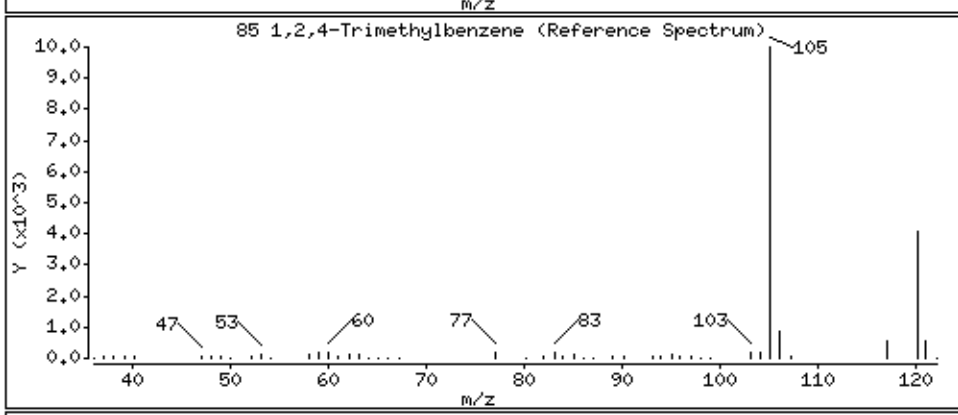
Concentration: 50.2 ppb

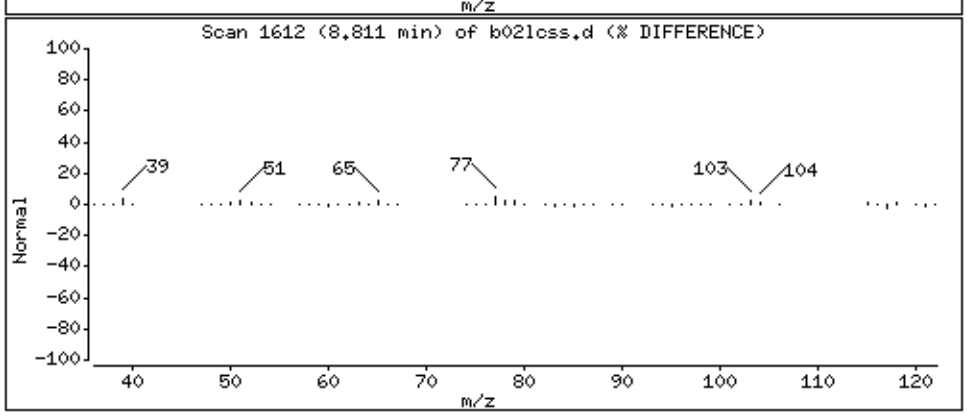












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b\b02lcss.d

Date : 20-JAN-2017 14:12

Client ID: 1712873,139467:5

Instrument: 50mv5b.i

Sample Info: 1712873,139467:5

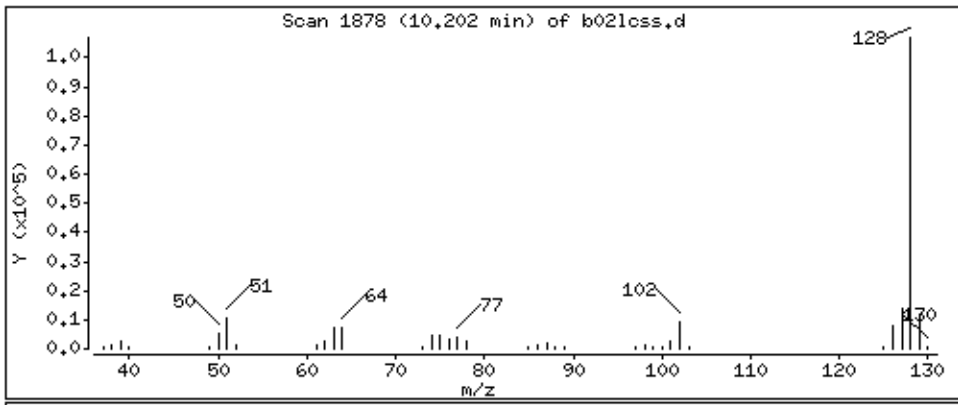
Operator: TMW

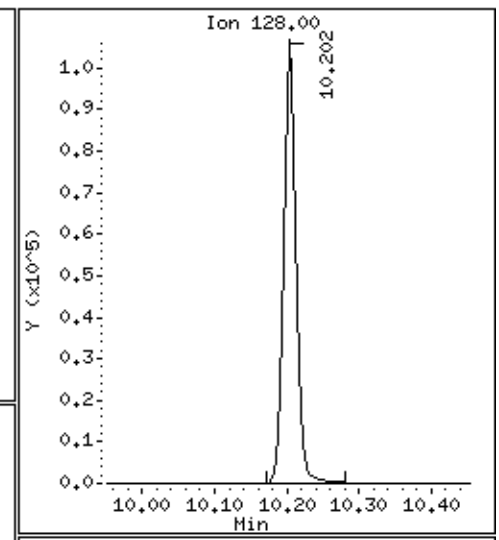
Column phase: DB-624

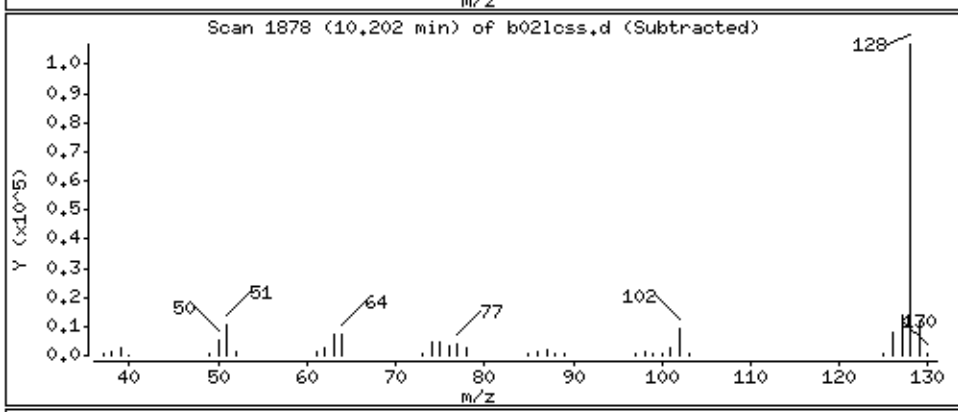
Column diameter: 0.18

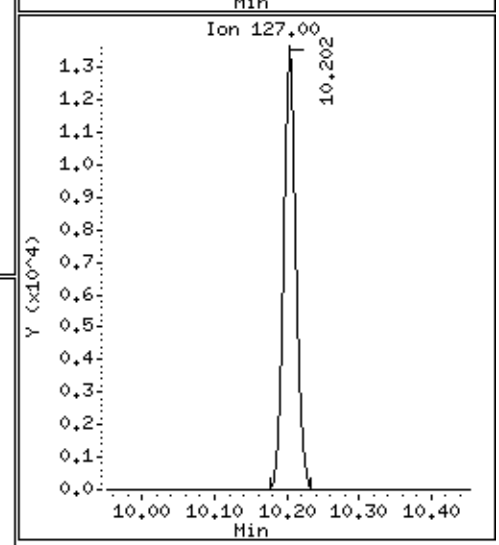
96 Naphthalene

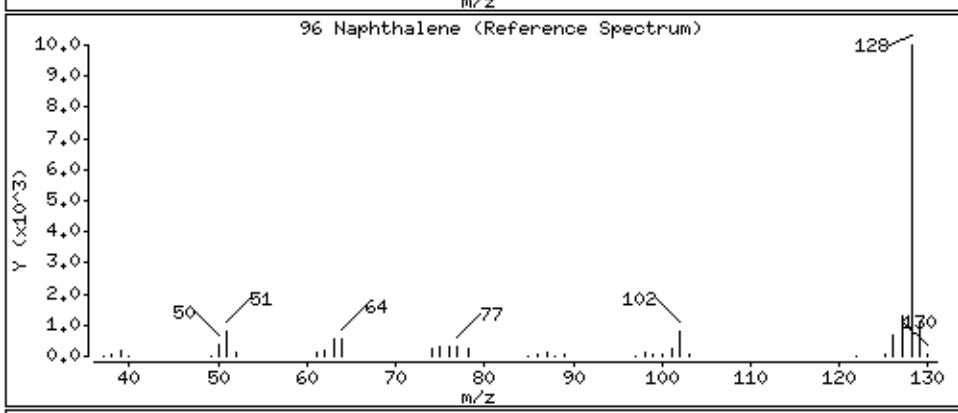
Concentration: 50.2 ppb

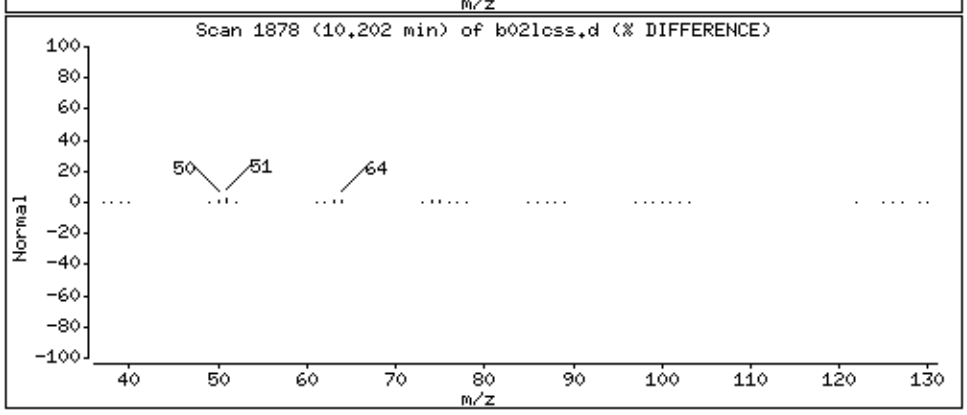












Data File: \\192.168.50.6\chem\50mv5b.i\b012017.b/b02lcss.d
Injection Date: 20-JAN-2017 14:12
Instrument: 50mv5b.i
Lab Sample ID: 1712873,139467:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv5b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 130579
ISTD lot:
Lot:
Tune std: _____

Method:

Surr. lot: 137649:5

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,139195	L/98621	BFB	1	7	-bfb/all ✓	1/04/17	14:16	TMW	Good
1/b01cal1.d	8260-CAL1,139196	S/98621	CALIB_1	1		-b8260_a_c/all	1/04/17	14:54	TMW	
1/b02cal2.d	8260-CAL2,139197	S/98621	CALIB_2	1		-b8260_a_c/all	1/04/17	15:31	TMW	
1/b03cal3.d	8260-CAL3,139198	S/98621	CALIB_3	1		-b8260_a_c/all	1/04/17	16:09	TMW	
1/b03cal3mqc.d	8260-CAL3,139198	L/98621	MQC	1	<2	-b8260_a_c/all	1/04/17	16:09	TMW	
1/b04cal4.d	8260-CAL4,139199	S/98621	CALIB_4	1		-b8260_a_c/all	1/04/17	16:47	TMW	
1/b05cal5.d	8260-CAL5,139200	S/98621	CALIB_5	1		-b8260_a_c/all	1/04/17	17:24	TMW	
1/b05cal5mqc.d	8260-CAL5,139200	L/98621	MQC	1	<2	-b8260_a_c/all	1/04/17	17:24	TMW	
1/b06cal6.d	8260-CAL6,139201	S/98621	CALIB_6	1		-b8260_a_c/all	1/04/17	18:02	TMW	
1/b06cal6ccv.d	8260-CCV,139178:	L/98621	CCALIB_6	1	7	-b8260_a_c/all	1/04/17	18:02	TMW	
1/b07cal7.d	8260-CAL7,139202	S/98621	CALIB_7	1		-b8260_a_c/all	1/04/17	18:40	TMW	Good
1/b08cal8.d	8260-CAL8,139203	S/98621	CALIB_8	1		-b8260_a_c/all	1/04/17	19:17	TMW	
1/b09.d	RINSE	S/	SAMPLE	1		-b8260_a_c/all	1/04/17	19:55	TMW	
1/b10icv.d	8260-ICV,139204:	L/98621	ICV	1	<2	-b8260_a_c/all	1/04/17	20:33	TMW	
1/b10icvlcsw.d	8260-LCS,138812:	L/	LCS	1	7	-b8260_a_c/826	1/04/17	20:33	TMW	
1/b11mbw.d	MB	L/	BLANK	1	7	-b8260_a_c/all	1/04/17	21:10	TMW	
1/b12.d	50161953034x50.1	L/98577	SAMPLE	50.1	<2	-b8260_a_c/all	1/04/17	21:48	TMW	
1/b13.d	50161953020x200	L/98589	SAMPLE	200	<2	-b8260_a_c/all	1/04/17	22:26	TMW	
1/b14.d	50162163001	L/98624	SAMPLE	1	<2	-b8260_a_c/all	1/04/17	23:03	TMW	
1/b15.d	50162163001x10	L/98624	SAMPLE	10	<2	-b8260_a_c/all	1/04/17	23:41	TMW	
1/b16.d	50162163003	L/98624	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	00:19	TMW	
1/b17.d	50162163004	L/98624	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	00:56	TMW	
1/b18.d	50162163005	L/98624	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	01:34	TMW	
1/b19.d	50162163010	L/98624	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	02:12	TMW	
1/d00bfb.d	8260-TUNE,139195	L/98621	BFB	1	7	-bfb/all ✓	1/05/17	02:49	TMW	Good
1/d01ccv.d	8260-CCV,139178:	L/98621	CCALIB_6	1	7	-b8260_a_c/all	1/05/17	03:27	TMW	fail
1/d02lcsw.d	8260-LCS,138812:	L/	LCS	1	7	-b8260_a_c/826	1/05/17	04:05	TMW	
1/d03lcsms.d	8260-LCS,138812:	L/	LCS	1	7	-b8260_a_c/826	1/05/17	04:42	TMW	
1/d04mbw.d	MB	L/	BLANK	1	7	-b8260_a_c/all	1/05/17	05:20	TMW	
1/d05mbms.d	MB	L/	BLANK	1	7	-b8260_a_c/all	1/05/17	05:58	TMW	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5b.i\b010417cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:54 01/05/2017

Reviewed By/Date: _____ Page: 1 of 2

TMW 1/5/17

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv5b.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]:

Misc. Prep Info [S]: 130579

ISTD lot: Surr. lot: 137649:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d06	50162032016x50,u	S/98584	SAMPLE	50		-b8260_a_c/ust	1/05/17	06:35	TMW	✓ rr 25x 2meth/ Doesn't match rr
1/d07.d	50162043002x50	S/98628	SAMPLE	50		-b8260_a_c/all	1/05/17	07:13	TMW	D4 rr 500x n-hex 2meth/ npop
1/d08.d	50162043006x50	S/98628	SAMPLE	50		-b8260_a_c/all	1/05/17	07:51	TMW	D4
1/d09.d	50162043007x100	S/98628	SAMPLE	100		-b8260_a_c/all	1/05/17	08:29	TMW	D4
1/d10.d	50162043010x50	S/98628	SAMPLE	50		-b8260_a_c/all	1/05/17	09:06	TMW	rr 500x n-hex 2meth/ npop
1/d11.d	50162148011	L/98629	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	09:44	TMW	rr 1. 1x 2meth/ meth/ etc?
1/d12.d	50162163006	L/98629	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	10:22	TMW	✓
1/d13.d	50162163007	L/98629	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	10:59	TMW	✓
1/d14.d	50162163008	L/98629	SAMPLE	1	<2	-b8260_a_c/all	1/05/17	11:37	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5b.i\b010417cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 11:54 01/05/2017

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv5a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 130579
ISTD lot:
Lot:
Tune std: _____

Method:

Surr. lot: 139778:5

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.~~d~~	8260-TUNE,139195	L/98620	BFB	1	7	-bfb/all	1/16/17	12:07	TMW	LOST TUNE TIME
1/a01cal1.d	8260-CAL1,140014	S/98903	CALIB_1	1		-a8260_a_c/all	1/16/17	12:52	TMW	
1/a01cal1bfb.d	8260-TUNE,140013	L/98903	BFB	1	7	-bfb/all ✓	1/16/17	12:52	TMW	Good
1/a02cal2.d	8260-CAL2,140015	S/98903	CALIB_2	1		-a8260_a_c/all	1/16/17	13:29	TMW	
1/a03cal3.d	8260-CAL3,140016	S/98903	CALIB_3	1		-a8260_a_c/all	1/16/17	14:07	TMW	
1/a03cal3mqc.d	8260-CAL3,140016	L/98903	MQC	1	<2	-a8260_a_c/all	1/16/17	14:07	TMW	
1/a04cal4.d	8260-CAL4,140017	S/98903	CALIB_4	1		-a8260_a_c/all	1/16/17	14:45	TMW	
1/a05cal5.d	8260-CAL5,140018	S/98903	CALIB_5	1		-a8260_a_c/all	1/16/17	15:22	TMW	
1/a06cal6.d	8260-CAL6,140019	S/98903	CALIB_6	1		-a8260_a_c/all	1/16/17	16:00	TMW	
1/a06cal6ccv.d	8260-CCV,140012:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/16/17	16:00	TMW	1out
1/a07cal7.d	8260-CAL7,140020	S/98903	CALIB_7	1		-a8260_a_c/all	1/16/17	16:36	TMW	Good
1/a08cal8.d	8260-CAL8,140021	S/98903	CALIB_8	1		-a8260_a_c/all	1/16/17	17:14	TMW	
1/a09.d	RINSE	S/	SAMPLE	1		-a8260_a_c/all	1/16/17	17:52	TMW	
1/a10icv.d	8260-ICV,140022:	L/98903	ICV	1	<2	-a8260_a_c/all	1/16/17	18:29	TMW	3out
1/a10icvlcsw.d	8260-LCS,138812:	L/	LCS	1	7	-a8260_a_c/all	1/16/17	18:29	TMW	
1/a11mbw.d	MB	L/	BLANK	1	7	-a8260_a_c/all	1/16/17	19:07	TMW	✓
1/a12.d	50162702011	L/98909	SAMPLE	1	<2	-a8260_a_c/all	1/16/17	19:45	TMW	VAPComment BDMO
1/a13.d	50162955006	L/98911	SAMPLE	1	<2	-a8260_a_c/all	1/16/17	20:22	TMW	✓
1/a14.d	50162955007	L/98911	SAMPLE	1	<2	-a8260_a_c/all	1/16/17	21:00	TMW	✓ pH
1/a15.d	50162948001	L/98911	SAMPLE	1	<2	-a8260_a_c/all	1/16/17	21:38	TMW	✓
1/a16.~~d~~	50162948001x10	L/98911	SAMPLE	10	<2	-a8260_a_c/all	1/16/17	22:15	TMW	NV
1/a17.d	50162948002x10	L/98911	SAMPLE	10	<2	-a8260_a_c/all	1/16/17	22:53	TMW	D4 ✓
1/a18.d	50162948002x200	L/98911	SAMPLE	200	<2	-a8260_a_c/all	1/16/17	23:31	TMW	✓
1/a19.d	50162948003	L/98911	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	00:08	TMW	✓
1/c00bfb.d	8260-TUNE,140013	L/98903	BFB	1	7	-bfb/all ✓	1/17/17	00:46	TMW	Good
1/c01ccv.d	8260-CCV,140012:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/17/17	01:24	TMW	3out
1/c02lcsw.d	1709426,138812:5	L/98923	LCS	1	7	-a8260_a_c/826	1/17/17	02:01	TMW	
1/c02lcswx.d	8260-LCS,138812:	L/	LCS	1	7	-a8260_a_c/826	1/17/17	02:01	TMW	
1/c03lcsms.d	8260-LCS,138812:	L/	LCS	1	7	-a8260_a_c/826	1/17/17	02:39	TMW	
1/c04mbw.d	1709425	L/98923	BLANK	1	7	-a8260_a_c/all	1/17/17	03:17	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5a.i\a011617cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:31 01/17/2017

Reviewed By/Date: _____ Page: 1 of 2

TMW 1/17/17

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv5a.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]:

Misc. Prep Info [S]: 130579

ISTD lot: Surr. lot: 139778:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c04mbwx.d	mb	L/	BLANK	1	7	-a8260_a_c/all	1/17/17	03:17	TMW	✓
1/c05mbms.d	mb	L/	BLANK	1	7	-a8260_a_c/all	1/17/17	03:54	TMW	✓
1/c06.d	50162856004x500.	S/98886	SAMPLE	500.1		-a8260_a_c/all	1/17/17	04:32	TMW	✓
1/c07.d	50162948006	L/98914	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	05:10	TMW	✓
1/c08.d	50162948007	L/98914	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	05:47	TMW	✓
1/c09.d	50162948008	L/98914	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	06:25	TMW	rr1.1xvc
1/c10.d	50162984010	L/98923	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	07:03	TMW	✓
1/c11.d	1709427,138812:5	L/98923	MS	1	<2	-a8260_a_c/826	1/17/17	07:40	TMW	✓
1/c12.d	1709428,138812:5	L/98923	MSD	1	<2	-a8260_a_c/826	1/17/17	08:18	TMW	✓
1/c13.d	50162948011	L/98914	SAMPLE	1	<2	-a8260_a_c/all	1/17/17	08:56	TMW	✓
1/c14.d	50162948011x25	L/98914	SAMPLE	25	<2	-a8260_a_c/all	1/17/17	09:34	TMW	rv25.1xvc

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5a.i\a011617cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 14:31 01/17/2017 Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv5a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 130579
ISTD lot:
Lot:
Tune std: _____

Method:

Surr. lot: 139778:5

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,140013	L/98903	BFB	1	7	-bfb/all ✓	1/18/17	12:01	TMW	Good
1/a01ccv.~~d~~	8260-CCV,140012:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/18/17	12:39	TMW	Used LCS as CCV
1/a02lcss.d	8260-LCS,138812:	S/	LCS	1		-a8260_a_c/all	1/18/17	13:16	TMW	Sand Lot: 130579 lot full
1/a02lcssccv.d	8260-CCV,139165:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/18/17	13:16	TMW	2wt↑
1/a03lcsms.d	8260-LCS,138812:	L/	LCS	1	7	-a8260_a_c/826	1/18/17	13:54	TMW	Ø
1/a04mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	1/18/17	14:32	TMW	Sand Lot: 130579 ✓
1/a05mbms.d	mb	L/	BLANK	1	7	-a8260_a_c/all	1/18/17	15:09	TMW	✓
1/a06.d	2048697001	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	15:47	TMW	✓
1/a07.d	2048697002	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	16:25	TMW	✓
1/a08.d	50163035001	S/98974	SAMPLE	1		-a8260_a_c/all	1/18/17	17:02	TMW	✓
1/a09.d	1710455,138812:5	S/98974	MS	1		-a8260_a_c/all	1/18/17	17:40	TMW	✓
1/a10.d	1710456,138812:5	S/98974	MSD	1		-a8260_a_c/all	1/18/17	18:18	TMW	✓
1/a11.d	50163034001	S/98974	SAMPLE	1		-a8260_a_c/all	1/18/17	18:55	TMW	✓
1/a12.d	1710453,138812:5	S/98974	MS	1		-a8260_a_c/all	1/18/17	19:33	TMW	✓
1/a13.d	1710454,138812:5	S/98974	MSD	1		-a8260_a_c/all	1/18/17	20:11	TMW	✓
1/a14.d	50163047001	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	20:48	TMW	✓
1/a15.d	50163047002	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	21:26	TMW	✓
1/a16.d	50163047003	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	22:03	TMW	✓
1/a17.d	50163047005x100	S/98973	SAMPLE	100		-a8260_a_c/all	1/18/17	22:41	TMW	D4
1/a18.d	50163047006	S/98973	SAMPLE	1		-a8260_a_c/all	1/18/17	23:19	TMW	✓
1/a19.d	50163047007x100	S/98973	SAMPLE	100		-a8260_a_c/all	1/18/17	23:56	TMW	D4

TMW 1/19/17

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5a.i\a011817.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 07:15 01/19/2017

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv5a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 130579
ISTD lot:
Lot:
Tune std: _____

Method:

Surr. lot: 139778:5

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,140013	L/98903	BFB	1	7	-bfb/all ✓	1/19/17	14:23	TMW	Good
1/a01ccv.d	8260-CCV,140012:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/19/17	15:01	TMW	1out
1/a02lcss.d	8260-LCS,139467:	S/	LCS	1		-a8260_a_c/826	1/19/17	15:39	TMW	Sand Lot: 130579 1out VC
1/a03mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	1/19/17	16:16	TMW	Sand Lot: 130579 ✓
1/a04.d	50163047004	S/99014	SAMPLE	1		-a8260_a_c/all	1/19/17	16:54	TMW	✓
1/a05.d	1711350,139467:5	S/99014	MS	1		-a8260_a_c/826	1/19/17	17:31	TMW	✓
1/a06.~~d~~	1711351,139467:5	S/99014	MSD	1		-a8260_a_c/826	1/19/17	18:09	TMW	Badpurge rvl X
1/a07.d	50163047008	S/99014	SAMPLE	1		-a8260_a_c/all	1/19/17	18:47	TMW	rvl.1X101
1/a08.d	50163070001,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	19:24	TMW	✓
1/a09.d	50163070002,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	20:02	TMW	✓
1/a10.d	50163071001,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	20:40	TMW	↑BS5
1/a11.d	50163071002,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	21:17	TMW	↑BS5
1/a12.d	50162892001,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	21:55	TMW	✓
1/a13.d	50162892002,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	22:33	TMW	✓
1/a14.d	50162892003,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	23:10	TMW	✓
1/a15.d	50162892004,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/19/17	23:48	TMW	✓
1/a16.~~d~~	50162892005,ust	S/99015	SAMPLE	1		-a8260_a_c/ust	1/20/17	00:25	TMW	rvl 5X NaSO4
1/a17.d	50163115001	S/99016	SAMPLE	1		-a8260_a_c/all	1/20/17	01:03	TMW	✓
1/a18.d	50163115002	S/99016	SAMPLE	1		-a8260_a_c/all	1/20/17	01:41	TMW	✓
1/a19.d	50163115003	S/99016	SAMPLE	1		-a8260_a_c/all	1/20/17	02:19	TMW	✓ ↑BS3
1/c00bfb.d	8260-TUNE,140013	L/98903	BFB	1	7	-bfb/all ✓	1/20/17	02:56	TMW	Good
1/c01ccv.d	8260-CCV,140012:	L/98903	CCALIB_6	1	7	-a8260_a_c/all	1/20/17	03:34	TMW	3cut
1/c02lcsw.d	8260-LCS,139467:	L/	LCS	1	7	-a8260_a_c/826	1/20/17	04:12	TMW	G
1/c03lcss.d	8260-LCS139467:5	S/	LCS	1		-a8260_a_c/826	1/20/17	04:49	TMW	Sand Lot: 130579 G
1/c04mbw.d	mb	L/	BLANK	1	7	-a8260_a_c/all	1/20/17	05:27	TMW	✓
1/c05mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	1/20/17	06:05	TMW	Sand Lot: 130579 ✓
1/c06.d	50163115004	S/99019	SAMPLE	1		-a8260_a_c/all	1/20/17	06:42	TMW	✓
1/c07.d	50163115005	S/99019	SAMPLE	1		-a8260_a_c/all	1/20/17	07:20	TMW	rvl.1 X2-But
1/c08.d	50163115006	S/99019	SAMPLE	1		-a8260_a_c/all	1/20/17	07:58	TMW	✓
1/c09.d	50163115007	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	08:35	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5a.i\a011917.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:25 01/20/2017

TMW 1/20/17

Reviewed By/Date: _____ Page: 1 of 2

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv5a.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]:

Misc. Prep Info [S]: 130579

ISTD lot: Surr. lot: 139778:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c10.d	50163115008	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	09:13	TMW	✓
1/c11.d	50163115009	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	09:51	TMW	✓
1/c12.d	50163115010	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	10:28	TMW	✓
1/c13.d	50163115011	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	11:06	TMW	✓
1/c14.d	50163115012	L/99020	SAMPLE	1	<2	-a8260_a_c/all	1/20/17	11:44	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5a.i\a011917.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 12:25 01/20/2017 Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv5b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 130579
ISTD lot:
Lot:
Tune std: _____

Method:

Surr. lot: 139778:5

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,140013	L/98904	BFB	1	7	-bfb/all ✓	1/20/17	12:56	TMW	Good
1/b01ccv.d	8260-CCV,140012:	L/98904	CCALIB_6	1	7	-b8260_a_c/all	1/20/17	13:34	TMW	Not
1/b02lcss.d	8260-LCS,139467:	S/	LCS	1		-b8260_a_c/826	1/20/17	14:12	TMW	Sand Lot: 130579 ✓
1/b03lcsms.d	8260-LCS,139467:	L/	LCS	1	7	-b8260_a_c/826	1/20/17	14:49	TMW	
1/b04mbs.d	mb	S/	BLANK	1		-b8260_a_c/all	1/20/17	15:27	TMW	Sand Lot: 130579 ✓
1/b05mbms.d	mb	L/	BLANK	1	7	-b8260_a_c/all	1/20/17	16:04	TMW	✓
1/b06.d	1711351,139467:5	S/99014	MSD	1		-b8260_a_c/826	1/20/17	16:42	TMW	✓
1/b07 ✓	50163047008x1.1	~~S/99014~~	SAMPLE	1.1		-b8260_a_c/all	1/20/17	17:20	TMW	NBT NC
1/b08	50162892005x50,u	S/99045	SAMPLE	50		-b8260_a_c/ust	1/20/17	17:57	TMW	? rv25x doesn't matter
1/b09.d	50163143001	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	18:35	TMW	✓
1/b10.d	50163232001	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	19:13	TMW	✓
1/b11.d	1712115,139467:5	S/99044	MS	1		-b8260_a_c/826	1/20/17	19:50	TMW	✓
1/b12.d	1712116,137467:5	S/99044	MSD	1		-b8260_a_c/826	1/20/17	20:28	TMW	✓
1/b13.d	50163232002	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	21:06	TMW	✓
1/b14.d	50163232003	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	21:43	TMW	✓
1/b15.d	50163232004	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	22:21	TMW	✓
1/b16.d	50163232005	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	22:59	TMW	✓
1/b17.d	50163232006	S/99044	SAMPLE	1		-b8260_a_c/all	1/20/17	23:36	TMW	✓
1/b18.d	50163232007	S/99044	SAMPLE	1		-b8260_a_c/all	1/21/17	00:14	TMW	✓
1/b19.d	50163270002x5000	S/99044	SAMPLE	5000		-b8260_a_c/all	1/21/17	00:52	TMW	Oil
1/d00bfb.d	8260-TUNE,140013	L/98904	BFB	1	7	-bfb/all ✓	1/21/17	01:29	TMW	Good
1/d01ccv.d	8260-CCV,140012:	L/98904	CCALIB_6	1	7	-b8260_a_c/all	1/21/17	02:07	TMW	Not
1/d02lcsw.d	8260-LCS,139467:	L/	LCS	1	7	-b8260_a_c/826	1/21/17	02:45	TMW	
1/d03mbw.d	mb	L/	BLANK	1	7	-b8260_a_c/all	1/21/17	03:22	TMW	✓
1/d04.d	50163084008x10	L/99047	SAMPLE	10	<2	-b8260_a_c/all	1/21/17	04:00	TMW	DA
1/d05.d	50163084008x100	L/99047	SAMPLE	100	<2	-b8260_a_c/all	1/21/17	04:38	TMW	✓

Instrument stopped due to "GC Buffer Full"

TMW 1/23/17

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv5b.i\b012017.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:18 01/23/2017

Reviewed By/Date: _____ Page: 1 of 1

SAMPLE NO.

GP-1 4-6'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047001 Percent Moisture: 23.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	7.8		mg/kg	1	01/23/2017 10:54

SAMPLE NO.

GP-1 10-12'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047002 Percent Moisture: 20.4

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	11.5		mg/kg	1	01/23/2017 10:56

SAMPLE NO.

GP-2 2-4'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047003 Percent Moisture: 19.8

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	5.6		mg/kg	1	01/23/2017 11:02

SAMPLE NO.

GP-2 12-14'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047004 Percent Moisture: 19.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	11.5		mg/kg	1	01/23/2017 11:04

SAMPLE NO.

GP-3 2-4'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047005 Percent Moisture: 19.7

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	8.7		mg/kg	1	01/23/2017 11:14

SAMPLE NO.

GP-3 14-16'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047006 Percent Moisture: 16.4

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	7.0		mg/kg	1	01/23/2017 11:17

SAMPLE NO.

FD-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047007 Percent Moisture: 20.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	7.9		mg/kg	1	01/23/2017 11:19

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Initial Calibration Verification Source: 140329

Continuing Calibration Verification Source: 140330

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	01/23/2017 08:12				01/23/2017 08:48			01/23/2017 10:33			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Lead	1000	969	96.9	90-110	1000	958	95.8	1000	941	94.1	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 140330

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification						
	01/23/2017 10:58			01/23/2017 11:23			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Lead	1000	923	92.3	1000	955	95.5	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

CRDL Check Standard Source: 140345 Analysis Date/Time: 01/23/2017 08:16

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Lead	10.0	9.1	91.3	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract : Quick Shop / IN17002

Method Blank Matrix: Solid Instrument ID: 50ICP3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	01/23/2017 08:14	C	01/23/2017 08:50	C	01/23/2017 10:35	C	01/23/2017 11:00	C	1710596	C
Lead	4.0	U	4.0	U	4.0	U	4.0	U	ND	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract : Quick Shop / IN17002

Method Blank Matrix: Instrument ID: 50ICP3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	01/23/2017 11:25	C		C		C
Lead			4.0	U				

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50ICP3 Solution A Run Date: 01/23/2017 08:19

ICS Source: 140316,140224 Solution AB Run Date: 01/23/2017 08:23

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	491100	98.2	517500	103.5	80-120
Calcium	500000	500000	440900	88.2	460600	92.1	80-120
Iron	200000	200000	181500	90.8	191100	95.6	80-120
Lead		500	5.111		431.1	86.2	80-120
Magnesium	500000	500000	497200	99.4	522800	104.6	80-120

SAMPLE NO.

1710598MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Basis: Dry Parent Sample ID: GP-2 12-14'

Percent Moisture: 19.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Lead	mg/kg	75-125	56.3	11.5	55.0	81

SAMPLE NO.

1710599MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Basis: Dry Parent Sample ID: GP-2 12-14'

Percent Moisture: 19.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Lead	mg/kg	75-125	53.4	11.5	56.8	74*

* Spike Recovery outside QC Limits

01/27/2017 10:21

SAMPLE NO.

1712639PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Parent Sample ID: GP-2 12-14'

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Lead	ug/L	75-125	1	1150	1	218	1000	92.9

SAMPLE NO.

1710599MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 19.9 Basis: Dry

Analyte	Control Limit	Sample	Duplicate	RPD
Lead	20	56.3	53.4	5

SAMPLE NO.

1710597LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Lead	mg/kg	50.0	46.8	94	80	120

SAMPLE NO.

1712640SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Parent Sample ID: GP-2 12-14'

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Lead	ug/L	218	251	15.5*	10

% Difference not evaluated for parent results less than 50 times the reporting limit.

01/27/2017 10:15

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract : Quick Shop / IN17002

Instrument ID: 50ICP3 Effective Date:01/28/2016

Analyte	Concentration (ug/L)
Lead	100000

FORM XII INORGANIC-1

PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Preparation Method: EPA 3050 Batch: MPRP 23900

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
1710596	1710596BLANK	01/20/2017	1	50
1710597	1710597LCS	01/20/2017	1	50
1710598	1710598MS	01/20/2017	1.133	50
1710599	1710599MSD	01/20/2017	1.098	50
50163047001	GP-1 4-6'	01/20/2017	1.071	50
50163047002	GP-1 10-12'	01/20/2017	1.083	50
50163047003	GP-2 2-4'	01/20/2017	1.082	50
50163047004	GP-2 12-14'	01/20/2017	1.182	50
50163047005	GP-3 2-4'	01/20/2017	1.162	50
50163047006	GP-3 14-16'	01/20/2017	1.018	50
50163047007	FD-1	01/20/2017	1.141	50

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 01/23/2017 07:49 End Date: 01/23/2017 11:25

Sample Name	Lab Sample ID	D/F	Date	Time	Pb
10915474CAL0	10915474CAL0	1	01/23/2017	07:49	X
10915475CAL1	10915475CAL1	1	01/23/2017	07:52	X
10915482ICV	10915482ICV	1	01/23/2017	08:12	X
10915483ICB	10915483ICB	1	01/23/2017	08:14	X
10915484CRDL	10915484CRDL	1	01/23/2017	08:16	X
10915485ICSA	10915485ICSA	1	01/23/2017	08:19	X
10915486ICSAB	10915486ICSAB	1	01/23/2017	08:23	X
10915487CCV	10915487CCV	1	01/23/2017	08:48	X
10915488CCB	10915488CCB	1	01/23/2017	08:50	X
10915528CCV	10915528CCV	1	01/23/2017	10:33	X
10915529CCB	10915529CCB	1	01/23/2017	10:35	X
1710597LCS	1710597	1	01/23/2017	10:50	X
1710596BLANK	1710596	1	01/23/2017	10:52	X
GP-1 4-6'	50163047001	1	01/23/2017	10:54	X
GP-1 10-12'	50163047002	1	01/23/2017	10:56	X
10915531CCV	10915531CCV	1	01/23/2017	10:58	X
10915533CCB	10915533CCB	1	01/23/2017	11:00	X
GP-2 2-4'	50163047003	1	01/23/2017	11:02	X
GP-2 12-14'	50163047004	1	01/23/2017	11:04	X
1710598MS	1710598	1	01/23/2017	11:07	X
1710599MSD	1710599	1	01/23/2017	11:08	X
1712639PDS	1712639	1	01/23/2017	11:10	X
1712640SD	1712640	1	01/23/2017	11:12	X
GP-3 2-4'	50163047005	1	01/23/2017	11:14	X
GP-3 14-16'	50163047006	1	01/23/2017	11:17	X
FD-1	50163047007	1	01/23/2017	11:19	X
10915534CCV	10915534CCV	1	01/23/2017	11:23	X
10915535CCB	10915535CCB	1	01/23/2017	11:25	X

Sample Name: CAL0 Acquired: 1/23/2017 7:49:25 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0023**	**.0000**	**.0001**	**.0038**	**-.0001**
Stddev	.0000	.0000	.0001	.0001	.0004	.0001
%RSD	47.87	.3852	344.4	46.66	9.520	111.5
#1	-.0001	.0023	.0001	.0001	.0036	-.0001
#2	-.0001	.0023	-.0000	.0002	.0041	-.0000

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0026**	**.0002**	**.0002**	**.0001**	**.0015**	**.0001**
Stddev	.0001	.0000	.0001	.0001	.0001	.0000
%RSD	1.967	24.45	29.52	131.9	3.795	25.69
#1	.0027	.0002	.0002	.0000	.0015	.0001
#2	.0026	.0001	.0003	.0001	.0015	.0000

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-.0000**	**.0001**	**.0000**	**-.0001**	**.0002**
Stddev	.0003	.0000	.0000	.0000	.0001	.0001
%RSD	292.8	213.2	33.53	164.7	75.43	58.20
#1	.0003	-.0000	.0001	-.0000	-.0001	.0003
#2	-.0001	.0000	.0001	.0001	-.0000	.0001

Sample Name: CAL0 Acquired: 1/23/2017 7:49:25 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	.0001	.0012	.0002	-.0001	-.0005
Stddev	.0001	.0000	.0000	.0000	.0001	.0000
%RSD	32.72	24.67	.4657	8.346	72.66	.7905
#1	.0001	.0001	.0012	.0002	-.0001	-.0005
#2	.0002	.0002	.0012	.0002	-.0000	-.0005

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0006	.0026	-.0017	-.0007	-.0020	.0013
Stddev	.0001	.0000	.0003	.0003	.0001	.0007
%RSD	11.63	.7155	19.09	41.17	5.325	51.15
#1	-.0006	.0026	-.0019	-.0008	-.0021	.0017
#2	-.0005	.0026	-.0015	-.0005	-.0019	.0008

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7361.1	72932.	19186.
Stddev	37.1	195.	16.
%RSD	.50434	.26714	.08402
#1	7334.9	72794.	19198.
#2	7387.4	73070.	19175.

Sample Name: CAL1 Acquired: 1/23/2017 7:52:16 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Be3130	Cd2288	Mn2576	Pb2203	Se1960	Zn2062
Line	313.042 {108}	228.802 {447}	257.610 {131}	220.353 {453}	196.090 {472}	206.200 {463}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.474	3.450	1.213	1.355	.1600	2.029
Stddev	.002	.033	.002	.013	.0016	.021
%RSD	.0944	.9587	.1590	.9562	1.020	1.014
#1	2.476	3.474	1.212	1.364	.1612	2.043
#2	2.473	3.427	1.214	1.345	.1589	2.014

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7385.9	72871.	19347.
Stddev	19.3	201.	16.
%RSD	.26078	.27545	.08484
#1	7372.3	72729.	19336.
#2	7399.6	73013.	19359.

Sample Name: CAL2 Acquired: 1/23/2017 7:54:27 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ba4554	Co2286	Cu3247	Fe2714	V_2924	Sr4077
Line	455.403 { 74}	228.616 {447}	324.754 {104}	271.441 {124}	292.464 {115}	407.771 { 83}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.567	.6668	.0774	.5092	.0731	4.361
Stddev	.010	.0075	.0001	.0035	.0004	.022
%RSD	.4062	1.118	.1775	.6788	.5416	.5060
#1	2.575	.6720	.0775	.5116	.0734	4.377
#2	2.560	.6615	.0773	.5067	.0728	4.346

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7301.5	72408.	19168.
Stddev	11.2	454.	125.
%RSD	.15288	.62670	.65035
#1	7293.6	72087.	19079.
#2	7309.3	72729.	19256.

Sample Name: CAL3 Acquired: 1/23/2017 7:56:38 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	As1890	Mo2020	Si2881
Line	189.042 {478}	202.030 {467}	288.158 {117}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.4829	.8987	.2264
Stddev	.0039	.0156	.0030
%RSD	.8144	1.741	1.344
#1	.4857	.9098	.2243
#2	.4801	.8877	.2286

Int. Std.	Y_2243	Y_3600
Line	224.306 {450}	360.073 { 94}
Units	Cts/S	Cts/S
Avg	7423.1	73579.
Stddev	20.8	6.
%RSD	.28048	.00812
#1	7437.8	73575.
#2	7408.3	73583.

Sample Name: CAL4 Acquired: 1/23/2017 7:58:49 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Al3082	Ca3158	Cr2677	K_7664	Ni2316	Na5895
Line	308.215 {109}	315.887 {107}	267.716 {126}	766.490 { 44}	231.604 {446}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1895	2.280	.0495	.5594	.3546	.9096
Stddev	.0017	.022	.0006	.0038	.0016	.0054
%RSD	.8798	.9488	1.224	.6785	.4373	.5969
#1	.1883	2.264	.0499	.5621	.3557	.9135
#2	.1907	2.295	.0491	.5567	.3535	.9058

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7378.3	72848.	19816.
Stddev	21.3	289.	59.
%RSD	.28818	.39702	.29967
#1	7393.4	73053.	19774.
#2	7363.3	72644.	19858.

Sample Name: CAL5 Acquired: 1/23/2017 8:01:01 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	B_2496	Mg2790	Sb2068	Tl1908
Line	249.678 {135}	279.079 {121}	206.833 {463}	190.856 {477}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0733	.1980	.2920	.3098
Stddev	.0002	.0010	.0015	.0022
%RSD	.2124	.5175	.5098	.6943
#1	.0732	.1973	.2931	.3114
#2	.0734	.1988	.2909	.3083

Int. Std.	Y_2243	Y_3600
Line	224.306 {450}	360.073 { 94}
Units	Cts/S	Cts/S
Avg	7526.6	74776.
Stddev	31.2	172.
%RSD	.41506	.23019
#1	7548.7	74898.
#2	7504.5	74654.

Sample Name: CAL6 Acquired: 1/23/2017 8:03:12 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Sn1899	Ti3372	P_1774	Li6707
Line	189.989 {477}	337.280 {100}	177.495 {490}	670.784 { 50}
IS Ref	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.275	3.687	.4507	5.329
Stddev	.018	.016	.0062	.024
%RSD	1.397	.4231	1.382	.4495
#1	1.288	3.676	.4551	5.313
#2	1.263	3.698	.4463	5.346

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7416.1	72915.	19699.
Stddev	26.1	148.	82.
%RSD	.35177	.20346	.41727
#1	7397.7	72810.	19641.
#2	7434.6	73020.	19758.

Sample Name: CAL7 Acquired: 1/23/2017 8:05:35 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280
Line	328.068 {103}
IS Ref	(Y_3710)
Units	Cts/S
Avg	.1296
Stddev	.0011
%RSD	.8710
#1	.1288
#2	.1304
Int. Std.	Y_3710
Line	371.030 { 91}
Units	Cts/S
Avg	19660.
Stddev	23.
%RSD	.11563
#1	19676.
#2	19644.

Sample Name: ICV Acquired: 1/23/2017 8:12:21 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.7	10050.	1019.	1047.	997.1	979.4
Stddev	3.5	53.	4.	8.	7.1	6.6
%RSD	.7090	.5318	.4398	.7185	.7136	.6752
#1	498.2	10010.	1022.	1042.	992.1	974.7
#2	503.2	10090.	1016.	1052.	1002.	984.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10040.	979.8	1002.	992.3	964.9	10260.
Stddev	61.	7.3	6.	10.5	1.6	21.
%RSD	.6102	.7430	.6025	1.057	.1617	.2068
#1	9992.	985.0	1006.	984.9	963.8	10240.
#2	10080.	974.7	997.4	999.7	966.0	10270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 1/23/2017 8:12:21 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9999.	10140.	958.5	1012.	1036.	969.2
Stddev	77.	36.	3.5	8.	7.	3.5
%RSD	.7687	.3505	.3650	.8150	.6391	.3568
#1	9945.	10120.	956.0	1018.	1040.	971.7
#2	10050.	10170.	960.9	1006.	1031.	966.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1043.	996.5	F 4388.	1086.	1033.	1029.
Stddev	9.	1.0	46.	3.	2.	9.
%RSD	.8455	.1037	1.047	.2331	.1667	.8502
#1	1050.	997.3	4356.	1088.	1032.	1022.
#2	1037.	995.8	4421.	1085.	1034.	1035.
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: ICV Acquired: 1/23/2017 8:12:21 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1047.	978.0	10100.	975.6	1025.	1003.
Stddev	.	5.8	79.	6.9	4.	7.
%RSD	.0134	.5897	.7869	.7074	.3928	.6643
#1	1047.	982.1	10040.	970.7	1022.	998.1
#2	1047.	974.0	10150.	980.5	1028.	1008.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7225.8	70629.	19324.
Stddev	39.0	175.	130.
%RSD	.53917	.24817	.67285
#1	7198.3	70753.	19416.
#2	7253.4	70505.	19232.

Sample Name: ICB Acquired: 1/23/2017 8:14:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4960	-4.029	-2.344	1.364	.1322	.0923
Stddev	.7554	1.317	2.051	.719	.0096	.0540
%RSD	152.3	32.70	87.49	52.73	7.231	58.58
#1	-1.030	-4.961	-3.794	1.872	.1390	.0540
#2	.0382	-3.098	-.8938	.8554	.1255	.1305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30.50	.1753	-.1680	-1.421	1.336	-5.012
Stddev	1.85	.0183	.0048	.724	1.031	8.815
%RSD	6.077	10.46	2.834	50.93	77.18	175.9
#1	-31.81	.1624	-.1646	-1.933	.6068	-11.25
#2	-29.19	.1883	-.1714	-.9093	2.065	1.221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 1/23/2017 8:14:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.103	2.903	-.0598	5.610	.0199	.0459
Stddev	22.99	1.903	.0270	.852	.2185	.2142
%RSD	740.8	65.57	45.22	15.19	1101.	466.2
#1	13.15	4.248	-.0407	5.007	-.1346	.1974
#2	-19.36	1.557	-.0789	6.212	.1743	-.1055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.952	-1.100	-2.385	.7887	.7533	1.011
Stddev	1.334	2.445	1.051	1.366	.1265	.043
%RSD	45.19	222.4	44.06	173.1	16.79	4.297
#1	3.895	-2.829	-3.128	-.1769	.6638	1.042
#2	2.009	.6295	-1.642	1.754	.8427	.9802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 1/23/2017 8:14:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1703	-3.640	-13.06	.0290	1.119	-.8340
Stddev	1.033	.159	1.91	.1282	.284	.5866
%RSD	606.5	4.354	14.64	441.5	25.40	70.33
#1	.5600	-3.528	-14.41	.1197	1.320	-.4192
#2	-.9005	-3.752	-11.71	-.0616	.9183	-1.249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7479.0	73888.	19788.
Stddev	8.6	277.	79.
%RSD	.11444	.37552	.39867
#1	7485.1	74084.	19732.
#2	7473.0	73692.	19843.

Sample Name: CRDL Acquired: 1/23/2017 8:16:19 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.929	178.0	8.372	96.41	9.707	3.831
Stddev	.800	2.2	.022	1.00	.073	.056
%RSD	8.959	1.220	.2676	1.037	.7492	1.470
#1	8.364	176.5	8.357	95.71	9.656	3.792
#2	9.495	179.6	8.388	97.12	9.759	3.871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	923.9	1.855	9.896	8.639	11.92	98.95
Stddev	12.4	.137	.048	1.828	2.62	3.92
%RSD	1.344	7.404	.4883	21.16	21.94	3.959
#1	915.1	1.952	9.930	9.931	10.07	101.7
#2	932.7	1.758	9.862	7.346	13.77	96.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CRDL Acquired: 1/23/2017 8:16:19 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	974.2	971.9	9.734	10.67	10.27	9.131
Stddev	17.2	6.2	.025	.08	.15	.083
%RSD	1.766	.6344	.2547	.7703	1.430	.9071
#1	962.1	967.5	9.717	10.73	10.17	9.189
#2	986.4	976.2	9.752	10.62	10.38	9.072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.378	10.37	170.0	10.57	10.10	9.920
Stddev	.888	1.10	.9	.53	.06	.125
%RSD	13.93	10.61	.5553	5.032	.6198	1.264
#1	7.006	9.593	169.3	10.20	10.15	10.01
#2	5.750	11.15	170.6	10.95	10.06	9.831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CRDL Acquired: 1/23/2017 8:16:19 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.02	17.02	983.3	9.639	1006.	19.94
Stddev	.74	.29	13.8	.080	13.	3.65
%RSD	7.408	1.689	1.406	.8290	1.302	18.29
#1	10.55	17.22	973.5	9.582	1015.	17.36
#2	9.497	16.81	993.1	9.695	996.7	22.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7523.4	74817.	19679.
Stddev	45.0	329.	183.
%RSD	.59837	.44032	.93223
#1	7491.6	75050.	19809.
#2	7555.3	74584.	19549.

Sample Name: ICSA Acquired: 1/23/2017 8:19:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.086	491100.	5.486	54.49	1.139	-.1709
Stddev	.061	3857.	.721	.87	.134	.0130
%RSD	5.591	.7853	13.13	1.605	11.79	7.587
#1	-1.129	493800.	4.977	53.88	1.234	-.1801
#2	-1.043	488400.	5.996	55.11	1.044	-.1618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	440900.	1.161	-.1290	-.5542	4.160	181500.
Stddev	2231.	.050	.2327	.5609	4.386	1185.
%RSD	.5060	4.340	180.4	101.2	105.4	.6533
#1	442500.	1.197	-.2935	-.1576	1.059	182300.
#2	439400.	1.126	.0356	-.9508	7.262	180600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 1/23/2017 8:19:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-108.7	497200.	-.7170	-1.358	-3.071	5.111
Stddev	22.4	2815.	.1319	.226	.392	1.159
%RSD	20.63	.5661	18.40	16.67	12.76	22.68
#1	-124.6	499200.	-.8103	-1.198	-3.348	5.931
#2	-92.88	495200.	-.6238	-1.518	-2.794	4.291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.149	12.10	-.7614	-2.260	11.57	-9.601
Stddev	.210	7.39	1.843	.724	.00	1.364
%RSD	4.083	61.08	242.0	32.04	.0282	14.21
#1	5.000	17.33	.5414	-2.772	11.57	-10.57
#2	5.297	6.875	-2.064	-1.748	11.57	-8.636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 1/23/2017 8:19:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-13.14	-5.561	-80.76	5.186	10.08	-11.75
Stddev	.10	.053	1.93	.008	.54	.56
%RSD	.7625	.9517	2.391	.1483	5.357	4.804
#1	-13.07	-5.524	-82.13	5.180	10.46	-12.15
#2	-13.21	-5.599	-79.40	5.191	9.696	-11.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6517.1	63971.	18797.
Stddev	32.0	389.	38.
%RSD	.49073	.60744	.20229
#1	6494.5	63697.	18770.
#2	6539.7	64246.	18824.

Sample Name: ICSAB Acquired: 1/23/2017 8:23:55 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**251.7**	**517500.**	**524.6**	**597.8**	**508.9**	**490.8**
Stddev	6.0	1030.	7.3	.5	2.1	3.5
%RSD	2.404	.1990	1.399	.0875	.4202	.7189
#1	255.9	516700.	529.8	597.5	510.4	493.2
#2	247.4	518200.	519.4	598.2	507.3	488.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**460600.**	**508.2**	**449.6**	**485.9**	**492.1**	**191100.**
Stddev	2499.	1.6	1.6	.1	1.0	817.
%RSD	.5426	.3111	.3510	.0255	.2022	.4278
#1	458900.	509.3	450.7	485.8	491.4	190500.
#2	462400.	507.1	448.5	486.0	492.8	191700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB Acquired: 1/23/2017 8:23:55 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-107.1	522800.	461.1	477.6	452.7	431.1
Stddev	10.8	2454.	1.7	6.0	1.0	2.1
%RSD	10.05	.4695	.3682	1.257	.2146	.4953
#1	-99.45	521000.	459.9	481.8	453.4	432.6
#2	-114.7	524500.	462.3	473.3	452.0	429.6
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	522.3	513.7	2186.	485.4	528.2	413.6
Stddev	.7	4.9	15.	1.9	2.0	3.7
%RSD	.1411	.9547	.6900	.3923	.3789	.9049
#1	521.8	510.3	2175.	486.8	526.8	416.3
#2	522.8	517.2	2197.	484.1	529.6	411.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB Acquired: 1/23/2017 8:23:55 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	504.1	442.5	-63.81	497.8	515.8	531.3
Stddev	3.6	.8	.67	2.9	1.0	4.1
%RSD	.7112	.1874	1.046	.5729	.1858	.7774
#1	501.6	443.1	-64.28	499.9	516.5	534.2
#2	506.7	441.9	-63.34	495.8	515.2	528.4
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6422.7	62299.	18389.
Stddev	4.3	159.	123.
%RSD	.06729	.25517	.66769
#1	6425.7	62412.	18302.
#2	6419.6	62187.	18476.

Sample Name: CCV Acquired: 1/23/2017 8:48:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	512.4	10360.	1011.	1069.	1019.	1010.
Stddev	6.6	93.	.	6.	5.	5.
%RSD	1.291	.9016	.0479	.6007	.4487	.4696
#1	507.8	10290.	1011.	1065.	1016.	1007.
#2	517.1	10430.	1010.	1074.	1022.	1013.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10010.	980.3	1002.	1012.	983.5	10420.
Stddev	86.	.8	.	.	8.4	72.
%RSD	.8585	.0802	.0395	.0467	.8579	.6881
#1	9952.	979.8	1001.	1012.	977.5	10370.
#2	10070.	980.9	1002.	1011.	989.5	10470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/23/2017 8:48:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10320.**	**10300.**	**972.0**	**1012.**	**1033.**	**958.5**
Stddev	62.	70.	7.7	4.	1.	3.9
%RSD	.6048	.6747	.7927	.4105	.0909	.4113
#1	10270.	10250.	966.5	1015.	1033.	961.3
#2	10360.	10350.	977.4	1009.	1032.	955.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1053.**	**992.9**	F **4479.**	**1081.**	**1055.**	**1016.**
Stddev	3.	.5	44.	3.	6.	17.
%RSD	.2525	.0507	.9789	.2896	.6148	1.640
#1	1051.	993.3	4448.	1083.	1051.	1028.
#2	1055.	992.6	4510.	1079.	1060.	1004.
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: CCV Acquired: 1/23/2017 8:48:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1057.	973.0	10660.	994.7	1031.	1046.
Stddev	6.	.8	34.	5.7	9.	3.
%RSD	.5263	.0780	.3202	.5714	.8420	.3329
#1	1053.	972.5	10640.	990.7	1037.	1043.
#2	1061.	973.5	10680.	998.8	1025.	1048.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7242.9	70654.	19269.
Stddev	5.2	191.	23.
%RSD	.07244	.27087	.12119
#1	7239.2	70790.	19286.
#2	7246.6	70519.	19253.

Sample Name: CCB Acquired: 1/23/2017 8:50:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9478	-8.764	-2.468	.7443	-.1640	.0287
Stddev	.9886	1.009	.654	.1909	.3180	.0058
%RSD	104.3	11.51	26.52	25.65	193.9	20.14
#1	-.2487	-8.050	-2.005	.6093	.0609	.0246
#2	-1.647	-9.477	-2.931	.8793	-.3889	.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-30.52	.0663	-.1879	-2.726	1.674	-4.190
Stddev	.01	.0041	.0548	.046	3.820	8.657
%RSD	.0265	6.121	29.18	1.676	228.2	206.6
#1	-30.53	.0634	-.1492	-2.693	4.375	-10.31
#2	-30.51	.0692	-.2267	-2.758	-1.028	1.932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 8:50:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26.03**	**-1.138**	**-.1334**	**5.340**	**.1694**	**-.4307**
Stddev	18.36	3.932	.0337	.965	.1154	.4974
%RSD	70.52	345.4	25.27	18.06	68.14	115.5
#1	39.01	1.642	-.1572	4.658	.0878	-.7824
#2	13.05	-3.919	-.1095	6.023	.2510	-.0790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4212**	**-1.497**	**-3.426**	**1.026**	**.5815**	**-.2921**
Stddev	.6978	3.775	.905	.627	.0231	.3720
%RSD	165.7	252.2	26.42	61.10	3.978	127.4
#1	-.0722	1.172	-2.786	.5825	.5979	-.0290
#2	.9146	-4.167	-4.066	1.469	.5652	-.5552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 8:50:16 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2276	-3.479	50.50	-.0596	.3278	.2453
Stddev	.7470	.012	7.55	.0270	.2632	.4059
%RSD	328.2	.3468	14.95	45.30	80.30	165.5
#1	-.7558	-3.487	55.84	-.0405	.5139	.5323
#2	.3006	-3.470	45.16	-.0787	.1416	-.0417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7504.4	74393.	19789.
Stddev	40.4	153.	101.
%RSD	.53782	.20565	.51240
#1	7532.9	74285.	19717.
#2	7475.8	74501.	19860.

Sample Name: CCV Acquired: 1/23/2017 10:33:36 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	477.4	9978.	1009.	1027.	967.1	959.2
Stddev	.5	23.	7.	3.	.0	.1
%RSD	.1068	.2320	.6835	.2609	.0031	.0054
#1	477.1	9962.	1004.	1029.	967.1	959.2
#2	477.8	9994.	1014.	1026.	967.1	959.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9151.	981.6	1003.	928.9	920.9	9748.
Stddev	24.	7.0	8.	1.0	7.8	24.
%RSD	.2570	.7100	.7598	.1035	.8482	.2431
#1	9134.	976.7	997.5	929.5	915.3	9731.
#2	9167.	986.6	1008.	928.2	926.4	9765.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/23/2017 10:33:36 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9846.**	**9639.**	**909.1**	**1018.**	**1023.**	**941.2**
Stddev	1.	.	1.7	6.	7.	5.3
%RSD	.0148	.0042	.1889	.5486	.6826	.5675
#1	9847.	9640.	907.9	1014.	1018.	937.4
#2	9845.	9639.	910.3	1022.	1028.	944.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1077.**	**1008.**	F **4228.**	**1076.**	**1013.**	**1022.**
Stddev	6.	10.	8.	10.	1.	18.
%RSD	.5571	.9883	.1895	.9438	.1144	1.807
#1	1073.	1001.	4222.	1069.	1012.	1009.
#2	1081.	1015.	4234.	1083.	1014.	1035.
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: CCV Acquired: 1/23/2017 10:33:36 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	994.1	962.1	10490.	941.5	1068.	1010.
Stddev	.6	7.5	21.	1.6	12.	1.
%RSD	.0610	.7825	.2023	.1749	1.080	.0929
#1	994.5	956.8	10510.	940.3	1060.	1009.
#2	993.7	967.5	10480.	942.7	1076.	1011.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7350.6	75468.	21208.
Stddev	46.8	394.	87.
%RSD	.63726	.52175	.40939
#1	7383.8	75746.	21147.
#2	7317.5	75189.	21270.

Sample Name: CCB Acquired: 1/23/2017 10:35:29 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8500	-11.71	-.3015	3.782	-.3628	.0539
Stddev	.8444	.15	2.281	.056	.1140	.0609
%RSD	99.34	1.321	756.6	1.480	31.43	113.0
#1	-.2529	-11.60	-1.914	3.742	-.2822	.0109
#2	-1.447	-11.82	1.311	3.822	-.4434	.0970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-34.12	.1361	-.0428	-.8311	1.481	.4246
Stddev	.30	.0683	.0311	1.840	3.575	5.018
%RSD	.8765	50.20	72.75	221.4	241.3	1182.
#1	-34.33	.0878	-.0648	.4701	-1.046	3.973
#2	-33.91	.1844	-.0208	-2.132	4.009	-3.124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 10:35:29 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123.7	-1.206	-.1301	5.657	-.2208	-1.527
Stddev	45.6	2.843	.1064	.971	.2846	1.168
%RSD	36.84	235.7	81.77	17.16	128.9	76.47
#1	155.9	.8042	-.0549	4.970	-.0196	-.7013
#2	91.47	-3.217	-.2053	6.343	-.4221	-2.353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.017	-.8484	-4.294	.6826	.6042	.2383
Stddev	.765	5.444	.457	.0011	.1297	.0561
%RSD	75.23	641.6	10.63	.1638	21.46	23.56
#1	1.559	-4.698	-3.971	.6834	.6959	.2780
#2	.4762	3.001	-4.616	.6818	.5125	.1986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 10:35:29 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.166	-3.916	287.2	-.0309	1.371	-.4550
Stddev	.177	.101	7.5	.0951	.273	.9404
%RSD	15.18	2.574	2.619	307.9	19.88	206.7
#1	-1.291	-3.988	292.5	-.0982	1.178	.2099
#2	-1.041	-3.845	281.9	.0364	1.563	-1.120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7644.9	77640.	21286.
Stddev	6.5	170.	35.
%RSD	.08466	.21836	.16523
#1	7640.3	77520.	21261.
#2	7649.4	77759.	21311.

Sample Name: 1710597_29028 Acquired: 1/23/2017 10:50:29 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	492.0	10360.	998.7	1022.	1008.	1004.
Stddev	1.4	19.	1.4	1.	.	5.
%RSD	.2867	.1801	.1362	.0884	.0276	.4786
#1	491.0	10370.	999.7	1023.	1008.	1001.
#2	493.0	10340.	997.7	1021.	1008.	1007.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9611.	994.9	1028.	959.1	957.7	9949.
Stddev	37.	.5	1.	.5	1.0	5.
%RSD	.3844	.0520	.0864	.0566	.1008	.0453
#1	9637.	995.3	1028.	958.7	957.0	9953.
#2	9585.	994.6	1029.	959.5	958.4	9946.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710597_29028 Acquired: 1/23/2017 10:50:29 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10420.**	**9667.**	**937.9**	**1085.**	**1020.**	**936.4**
Stddev	8.	22.	.2	3.	.	3.2
%RSD	.0792	.2289	.0210	.2531	.0378	.3401
#1	10430.	9682.	938.0	1087.	1020.	938.6
#2	10420.	9651.	937.7	1083.	1021.	934.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1099.**	**1043.**	**3317.**	**1116.**	**1058.**	**1016.**
Stddev	7.	6.	8.	2.	1.	5.
%RSD	.6276	.5372	.2274	.1806	.0829	.5351
#1	1104.	1047.	3322.	1118.	1059.	1019.
#2	1095.	1039.	3311.	1115.	1058.	1012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710597_29028 Acquired: 1/23/2017 10:50:29 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1017.	979.4	11910.	988.7	1120.	1074.
Stddev	4.	.4	60.	1.9	6.	.
%RSD	.3489	.0382	.5001	.1955	.5021	.0443
#1	1020.	979.1	11950.	987.3	1124.	1074.
#2	1015.	979.6	11870.	990.0	1116.	1075.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7196.4	73795.	21140.
Stddev	4.1	129.	83.
%RSD	.05765	.17447	.39417
#1	7193.5	73704.	21081.
#2	7199.4	73886.	21199.

Sample Name: 1710596_29028 Acquired: 1/23/2017 10:52:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.272	-1.320	-.8781	2.408	.0367	.0853
Stddev	1.051	3.883	.3133	.481	.0177	.0347
%RSD	82.63	294.1	35.68	19.97	48.17	40.67
#1	.5288	1.425	-1.100	2.749	.0492	.1098
#2	2.015	-4.066	-.6566	2.068	.0242	.0607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.41	.2254	-.0897	1.057	4.356	78.10
Stddev	.55	.0124	.1904	.743	2.524	6.33
%RSD	1.423	5.502	212.2	70.31	57.95	8.099
#1	38.03	.2341	.0449	1.583	2.571	82.58
#2	38.80	.2166	-.2244	.5317	6.140	73.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710596_29028 Acquired: 1/23/2017 10:52:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	238.4	8.744	.9963	4.533	.2737	.8919
Stddev	8.6	.373	.0021	.838	.2038	.4872
%RSD	3.591	4.269	.2135	18.49	74.45	54.62
#1	244.5	8.480	.9948	3.940	.1296	1.236
#2	232.4	9.008	.9978	5.126	.4178	.5474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.097	-.2403	11.68	25.97	.9376	.6753
Stddev	.431	2.495	6.85	.01	.0839	.9055
%RSD	13.93	1038.	58.63	.0447	8.950	134.1
#1	3.402	1.524	16.52	25.97	.8783	.0350
#2	2.792	-2.004	6.838	25.98	.9970	1.316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710596_29028 Acquired: 1/23/2017 10:52:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.227	-.4352	528.9	.1003	27.89	-.7402
Stddev	.150	.0682	10.8	.0116	1.55	1.397
%RSD	12.24	15.67	2.047	11.60	5.544	188.8
#1	-1.333	-.3870	536.6	.1085	28.98	-1.728
#2	-1.121	-.4834	521.3	.0921	26.79	.2477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7690.6	79589.	22194.
Stddev	20.5	103.	212.
%RSD	.26640	.12921	.95578
#1	7676.1	79516.	22044.
#2	7705.1	79662.	22344.

Sample Name: 50163047001_29028 Acquired: 1/23/2017 10:54:28 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.350	166100.	77.35	149.0	1118.	6.789
Stddev	2.446	890.	.25	.2	1.	.011
%RSD	181.3	.5360	.3293	.1632	.0736	.1556
#1	.3804	165500.	77.17	148.8	1118.	6.782
#2	-3.079	166700.	77.53	149.1	1119.	6.796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	136600.	17.48	150.1	298.7	300.2	273200.
Stddev	2111.	.01	.9	1.3	.3	1851.
%RSD	1.545	.0713	.5726	.4268	.1076	.6775
#1	135100.	17.47	150.7	297.8	300.0	271900.
#2	138100.	17.49	149.5	299.6	300.4	274500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047001_29028 Acquired: 1/23/2017 10:54:28 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29310.**	**108100.**	**4183.**	**8.507**	**250.8**	**127.8**
Stddev	40.	927.	27.	.166	1.8	.6
%RSD	.1355	.8576	.6558	1.945	.7318	.5059
#1	29280.	107500.	4163.	8.624	252.1	128.2
#2	29340.	108800.	4202.	8.390	249.5	127.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.806**	**-3.068**	**6809.**	**24.86**	**3240.**	**21.09**
Stddev	1.489	3.666	41.	.13	17.	.52
%RSD	19.07	119.5	.5958	.5249	.5236	2.474
#1	6.754	-.4755	6780.	24.77	3228.	20.72
#2	8.859	-5.660	6838.	24.95	3252.	21.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047001_29028 Acquired: 1/23/2017 10:54:28 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	349.7	692.7	2886.	216.7	9894.	235.9
Stddev	1.5	5.0	22.	.4	86.	1.6
%RSD	.4324	.7242	.7662	.2000	.8730	.6747
#1	348.7	696.2	2902.	216.4	9956.	237.0
#2	350.8	689.1	2870.	217.0	9833.	234.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7626.5	79319.	23089.
Stddev	15.7	301.	69.
%RSD	.20559	.37950	.29857
#1	7615.4	79532.	23040.
#2	7637.5	79106.	23138.

Sample Name: 50163047002_29028 Acquired: 1/23/2017 10:56:32 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.334	266400.	61.86	139.5	2129.	20.04
Stddev	2.993	3060.	1.37	.4	1.	.01
%RSD	128.2	1.149	2.220	.2716	.0674	.0368
#1	.2178	268600.	60.89	139.8	2127.	20.03
#2	4.451	264200.	62.83	139.3	2130.	20.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34430.	1.463	486.2	280.5	239.8	397700.
Stddev	39.	.070	1.7	.6	3.1	615.
%RSD	.1147	4.805	.3554	.2002	1.309	.1547
#1	34460.	1.413	487.4	280.9	242.0	398100.
#2	34410.	1.512	485.0	280.1	237.5	397200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047002_29028 Acquired: 1/23/2017 10:56:32 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16610.	44130.	F 27830.	3.334	492.1	198.7
Stddev	36.	72.	34.	.385	1.1	1.6
%RSD	.2171	.1632	.1229	11.54	.2317	.8169
#1	16580.	44180.	27850.	3.062	492.9	199.8
#2	16640.	44080.	27800.	3.606	491.3	197.5
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			20000.			
Low Limit			-10.00			

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.55	.9246	8287.	24.26	600.3	5.916
Stddev	1.57	4.625	59.	1.06	2.3	1.913
%RSD	14.85	500.2	.7144	4.379	.3761	32.33
#1	9.441	-2.346	8329.	25.01	601.9	4.563
#2	11.66	4.195	8245.	23.50	598.7	7.269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047002_29028 Acquired: 1/23/2017 10:56:32 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	361.4	616.8	2719.	130.2	1522.	195.0
Stddev	.3	3.0	4.	.0	5.	2.2
%RSD	.0833	.4849	.1348	.0033	.3040	1.144
#1	361.1	618.9	2716.	130.2	1525.	193.4
#2	361.6	614.7	2721.	130.2	1518.	196.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8256.1	83075.	24578.
Stddev	3.1	114.	51.
%RSD	.03806	.13780	.20726
#1	8253.9	82994.	24614.
#2	8258.3	83156.	24542.

Sample Name: CCV Acquired: 1/23/2017 10:58:41 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.8	10050.	988.8	1025.	956.3	948.8
Stddev	2.9	29.	1.8	5.	1.6	.9
%RSD	.6114	.2840	.1773	.5153	.1623	.0949
#1	474.8	10030.	987.5	1021.	955.2	949.4
#2	470.8	10070.	990.0	1029.	957.4	948.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9109.	964.9	986.0	920.0	904.6	9791.
Stddev	17.	.2	.2	2.0	2.2	35.
%RSD	.1891	.0247	.0240	.2193	.2416	.3595
#1	9097.	965.1	985.8	921.4	903.0	9766.
#2	9121.	964.8	986.1	918.6	906.1	9816.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/23/2017 10:58:41 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9742.**	**9689.**	**914.4**	**994.8**	**1006.**	**923.3**
Stddev	24.	13.	1.9	3.7	1.	.5
%RSD	.2446	.1374	.2122	.3671	.1103	.0548
#1	9759.	9680.	913.1	997.4	1007.	923.7
#2	9725.	9698.	915.8	992.3	1005.	922.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1061.**	**990.3**	F **4244.**	**1052.**	**1013.**	**990.0**
Stddev	5.	6.6	17.	3.	.	2.6
%RSD	.4959	.6628	.4095	.2794	.0159	.2640
#1	1065.	985.7	4232.	1054.	1013.	991.9
#2	1057.	995.0	4257.	1050.	1013.	988.2
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: CCV Acquired: 1/23/2017 10:58:41 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	993.1	944.7	10270.	929.0	1048.	1006.
Stddev	1.8	.2	13.	.8	3.	.
%RSD	.1796	.0264	.1238	.0849	.2665	.0377
#1	991.8	944.9	10260.	928.4	1046.	1006.
#2	994.4	944.5	10280.	929.6	1050.	1007.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7492.8	76004.	21519.
Stddev	8.6	30.	32.
%RSD	.11454	.03947	.14915
#1	7486.7	76025.	21542.
#2	7498.8	75983.	21496.

Sample Name: CCB Acquired: 1/23/2017 11:00:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.271	-7.416	-1.505	2.311	-.2486	.0818
Stddev	1.399	3.912	1.703	1.417	.1462	.0724
%RSD	110.1	52.75	113.1	61.32	58.83	88.47
#1	2.261	-10.18	-.3011	3.313	-.1452	.1330
#2	.2819	-4.650	-2.709	1.309	-.3520	.0306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-31.41	.1527	-.0793	1.227	2.692	9.028
Stddev	.81	.0338	.1888	2.375	1.183	.639
%RSD	2.568	22.13	238.1	193.5	43.97	7.078
#1	-30.84	.1288	.0542	-.4522	1.855	8.576
#2	-31.98	.1766	-.2128	2.906	3.528	9.480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 11:00:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59.34	-1.850	.4446	5.463	.1568	-.8747
Stddev	44.51	1.222	.0225	.992	.2211	1.145
%RSD	75.02	66.06	5.069	18.16	141.1	130.9
#1	27.86	-.9860	.4605	4.761	.0004	-1.684
#2	90.81	-2.714	.4286	6.164	.3131	-.0648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.421	1.077	-2.452	.1065	.7486	1.880
Stddev	.515	.023	1.051	1.196	.0305	.012
%RSD	36.25	2.161	42.88	1123.	4.080	.6179
#1	1.785	1.094	-3.196	-.7392	.7270	1.872
#2	1.057	1.061	-1.709	.9522	.7702	1.888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 11:00:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4737	-3.833	131.6	.1329	1.866	-1.143
Stddev	.6583	.059	1.2	.0193	.092	1.917
%RSD	139.0	1.551	.8876	14.49	4.914	167.7
#1	-.0082	-3.875	132.5	.1466	1.801	.2121
#2	-.9393	-3.791	130.8	.1193	1.931	-2.499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7603.3	77450.	21316.
Stddev	12.2	187.	62.
%RSD	.16087	.24183	.29241
#1	7594.6	77582.	21272.
#2	7611.9	77317.	21360.

Sample Name: 50163047003_29028 Acquired: 1/23/2017 11:02:53 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.687	174100.	73.24	134.7	1070.	6.785
Stddev	.837	432.	2.15	1.3	3.	.149
%RSD	49.59	.2480	2.941	.9868	.2398	2.194
#1	2.279	173800.	74.76	133.7	1068.	6.680
#2	1.096	174400.	71.71	135.6	1072.	6.891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40630.	1.660	103.6	215.5	178.8	256300.
Stddev	233.	.023	.4	1.2	3.8	1037.
%RSD	.5735	1.360	.4286	.5439	2.134	.4046
#1	40460.	1.644	103.9	216.4	181.5	255600.
#2	40790.	1.676	103.3	214.7	176.1	257100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047003_29028 Acquired: 1/23/2017 11:02:53 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11140.**	**39830.**	**6063.**	**7.758**	**209.8**	**97.23**
Stddev	37.	205.	44.	.083	.0	.37
%RSD	.3296	.5136	.7323	1.075	.0210	.3805
#1	11120.	39690.	6032.	7.699	209.8	96.97
#2	11170.	39980.	6095.	7.817	209.9	97.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.581**	**-2.161**	**4975.**	**24.50**	**3294.**	**24.07**
Stddev	.219	.456	16.	.44	5.	.51
%RSD	3.332	21.11	.3157	1.780	.1507	2.116
#1	6.426	-2.484	4964.	24.19	3291.	24.43
#2	6.736	-1.839	4986.	24.81	3298.	23.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047003_29028 Acquired: 1/23/2017 11:02:53 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	372.5	496.5	2149.	164.0	9272.	283.8
Stddev	3.0	.5	.	.5	92.	1.0
%RSD	.7925	.0975	.0029	.2860	.9951	.3621
#1	370.4	496.8	2149.	163.7	9337.	283.1
#2	374.6	496.1	2149.	164.4	9206.	284.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7937.3	80008.	23515.
Stddev	1.1	161.	68.
%RSD	.01436	.20098	.29043
#1	7936.5	80121.	23564.
#2	7938.1	79894.	23467.

Sample Name: 50163047004_29028 Acquired: 1/23/2017 11:04:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.051	F 330200.	181.6	169.9	1209.	13.95
Stddev	.459	3273.	4.1	1.5	1.	.09
%RSD	22.36	.9912	2.275	.8789	.1207	.6764
#1	-2.375	327900.	184.6	170.9	1210.	14.02
#2	-1.726	332500.	178.7	168.8	1208.	13.88
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		300000.				
Low Limit		-200.0				

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33240.	.8909	116.0	338.9	288.9	F 486600.
Stddev	14.	.0322	.2	.2	.5	105.
%RSD	.0431	3.614	.1897	.0674	.1742	.0215
#1	33230.	.8681	116.1	339.1	288.5	486600.
#2	33250.	.9137	115.8	338.8	289.2	486700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 50163047004_29028 Acquired: 1/23/2017 11:04:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12490.**	**43350.**	**2674.**	**12.04**	**265.3**	**217.6**
Stddev	9.	54.	1.	.07	1.1	1.1
%RSD	.0755	.1239	.0254	.5583	.4251	.5101
#1	12490.	43390.	2674.	12.09	266.1	218.4
#2	12480.	43320.	2675.	12.00	264.5	216.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.10**	**-.4758**	**6877.**	**26.96**	**1782.**	**4.747**
Stddev	3.36	1.344	.	.12	3.	.747
%RSD	20.84	282.5	.0060	.4517	.1906	15.74
#1	18.47	-1.426	6877.	26.88	1780.	4.219
#2	13.73	.4745	6877.	27.05	1784.	5.275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047004_29028 Acquired: 1/23/2017 11:04:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	514.7	755.7	1411.	125.7	3057.	239.3
Stddev	1.8	2.6	11.	.2	19.	1.7
%RSD	.3451	.3500	.7695	.1729	.6343	.7133
#1	516.0	757.6	1419.	125.9	3070.	240.5
#2	513.4	753.8	1404.	125.6	3043.	238.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7844.4	78453.	23042.
Stddev	4.3	190.	145.
%RSD	.05471	.24170	.62880
#1	7841.3	78587.	22939.
#2	7847.4	78319.	23144.

Sample Name: 1710598_29028 Acquired: 1/23/2017 11:07:00 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	420.7	F 434200.	1069.	822.0	2193.	883.6
Stddev	2.5	262.	4.	1.9	.	.0
%RSD	.6056	.0604	.3633	.2304	.0052	.0003
#1	422.5	434400.	1071.	823.4	2193.	883.6
#2	418.9	434000.	1066.	820.7	2193.	883.6
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		300000.				
Low Limit		-200.0				

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39260.	871.2	949.6	1186.	1126.	F 546700.
Stddev	43.	.8	1.6	11.	7.	159.
%RSD	.1103	.0865	.1659	.9363	.6478	.0290
#1	39290.	871.7	950.7	1178.	1131.	546900.
#2	39220.	870.7	948.4	1194.	1121.	546600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 1710598_29028 Acquired: 1/23/2017 11:07:00 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**28060.**	**54820.**	**4581.**	**844.2**	**1105.**	**1022.**
Stddev	42.	38.	.	2.7	4.	3.
%RSD	.1483	.0695	.0001	.3181	.3347	.2547
#1	28080.	54790.	4581.	846.1	1108.	1020.
#2	28030.	54850.	4581.	842.3	1102.	1024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**277.7**	**861.1**	**8977.**	**810.5**	**2971.**	**767.5**
Stddev	1.6	8.8	8.	.8	6.	7.2
%RSD	.5643	1.023	.0936	.1032	.1869	.9366
#1	278.8	854.9	8983.	809.9	2975.	762.4
#2	276.6	867.4	8971.	811.1	2967.	772.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710598_29028 Acquired: 1/23/2017 11:07:00 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1517.**	**1619.**	**10730.**	**1023.**	**4538.**	**1264.**
Stddev	4.	2.	8.	.	19.	4.
%RSD	.2828	.0936	.0716	.0232	.4293	.2910
#1	1520.	1620.	10730.	1023.	4524.	1267.
#2	1514.	1618.	10720.	1024.	4552.	1261.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7812.2**	**78057.**	**23609.**
Stddev	7.2	259.	88.
%RSD	.09205	.33219	.37437
#1	7807.1	77874.	23546.
#2	7817.2	78240.	23671.

Sample Name: 1710599_29028 Acquired: 1/23/2017 11:08:58 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**426.8**	F **425600.**	**1046.**	**783.9**	**2134.**	**895.5**
Stddev	1.5	983.	4.	.4	3.	1.5
%RSD	.3611	.2311	.3793	.0449	.1332	.1644
#1	425.7	426300.	1043.	783.7	2132.	894.4
#2	427.9	424900.	1049.	784.2	2136.	896.5
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		300000.				
Low Limit		-200.0				

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**40200.**	**882.1**	**946.4**	**1203.**	**1108.**	F **468500.**
Stddev	87.	1.1	2.0	4.	.	890.
%RSD	.2163	.1294	.2145	.3220	.0301	.1899
#1	40140.	882.9	947.9	1200.	1108.	467900.
#2	40260.	881.3	945.0	1205.	1107.	469100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 1710599_29028 Acquired: 1/23/2017 11:08:58 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27760.	54220.	3064.	854.4	1105.	939.3
Stddev	85.	59.	5.	6.0	3.	1.9
%RSD	.3056	.1084	.1484	.7001	.2828	.2066
#1	27700.	54170.	3060.	858.6	1107.	937.9
#2	27820.	54260.	3067.	850.1	1103.	940.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	297.1	873.7	7591.	806.8	2672.	769.9
Stddev	.3	7.1	8.	2.7	4.	1.8
%RSD	.0907	.8115	.1092	.3332	.1591	.2391
#1	296.9	878.7	7586.	808.7	2669.	771.2
#2	297.3	868.7	7597.	804.9	2675.	768.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1710599_29028 Acquired: 1/23/2017 11:08:58 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1473.**	**1578.**	**10850.**	**1037.**	**4015.**	**1273.**
Stddev	1.	.	18.	2.	3.	2.
%RSD	.0353	.0105	.1662	.1579	.0640	.1249
#1	1472.	1578.	10830.	1036.	4013.	1272.
#2	1473.	1578.	10860.	1038.	4017.	1274.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7728.8**	**76955.**	**23204.**
Stddev	9.1	65.	70.
%RSD	.11711	.08505	.30298
#1	7722.4	76908.	23254.
#2	7735.2	77001.	23154.

Sample Name: 1712639_29028 Acquired: 1/23/2017 11:10:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**531.0**	F **344000.**	**1277.**	**1328.**	**2304.**	**1100.**
Stddev	1.5	1733.	2.	1.	.	1.
%RSD	.2874	.5039	.1606	.1018	.0029	.0516
#1	529.9	342800.	1278.	1329.	2303.	1099.
#2	532.1	345200.	1275.	1327.	2304.	1100.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		300000.				
Low Limit		-200.0				

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42930.**	**1088.**	**1159.**	**1350.**	**1307.**	F **491300.**
Stddev	82.	3.	1.	4.	5.	224.
%RSD	.1899	.2442	.0602	.2670	.3969	.0455
#1	42870.	1090.	1160.	1352.	1311.	491200.
#2	42990.	1086.	1159.	1347.	1303.	491500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 1712639_29028 Acquired: 1/23/2017 11:10:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**23600.**	**53250.**	**3639.**	**1147.**	**1292.**	**1147.**
Stddev	43.	19.	2.	5.	4.	4.
%RSD	.1825	.0349	.0462	.4152	.2870	.3295
#1	23570.	53260.	3641.	1150.	1295.	1144.
#2	23630.	53230.	3638.	1143.	1290.	1149.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1190.**	**1122.**	**17030.**	**1142.**	**2981.**	**982.1**
Stddev	4.	5.	56.	.	2.	.2
%RSD	.3271	.4452	.3304	.0169	.0803	.0244
#1	1193.	1126.	17070.	1142.	2979.	981.9
#2	1187.	1119.	16990.	1142.	2982.	982.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712639_29028 Acquired: 1/23/2017 11:10:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1619.**	**1758.**	**12920.**	**1196.**	**4244.**	**1420.**
Stddev	3.	2.	1.	1.	3.	.
%RSD	.1828	.1395	.0109	.0452	.0625	.0092
#1	1621.	1760.	12920.	1195.	4246.	1420.
#2	1617.	1756.	12930.	1196.	4242.	1420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	**7800.0**	**78240.**	**23522.**
Stddev	6.7	251.	151.
%RSD	.08610	.32068	.64154
#1	7795.3	78063.	23416.
#2	7804.8	78418.	23629.

Sample Name: 1712640_29028 Acquired: 1/23/2017 11:12:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.508	75890.	39.86	42.25	274.6	3.228
Stddev	2.629	97.	.54	.24	.2	.068
%RSD	174.4	.1279	1.347	.5703	.0589	2.112
#1	-3.367	75820.	39.48	42.42	274.5	3.180
#2	.3514	75960.	40.24	42.08	274.7	3.276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7443.	.2910	27.26	77.35	69.67	112700.
Stddev	2.	.0686	.12	2.58	.60	120.
%RSD	.0240	23.56	.4254	3.337	.8655	.1062
#1	7445.	.2426	27.34	75.53	69.24	112800.
#2	7442.	.3395	27.18	79.18	70.09	112600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712640_29028 Acquired: 1/23/2017 11:12:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2898.	10080.	615.1	7.428	63.22	50.26
Stddev	10.	24.	.7	.591	.09	.84
%RSD	.3411	.2395	.1214	7.961	.1399	1.663
#1	2891.	10090.	615.6	7.010	63.28	49.67
#2	2905.	10060.	614.5	7.846	63.15	50.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.050	.8486	2730.	5.637	420.7	1.302
Stddev	.605	.4504	34.	.237	1.9	.647
%RSD	7.517	53.07	1.250	4.197	.4554	49.69
#1	7.622	1.167	2706.	5.470	419.4	.8445
#2	8.478	.5301	2754.	5.805	422.1	1.759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712640_29028 Acquired: 1/23/2017 11:12:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	116.5	172.6	393.7	28.83	686.6	53.72
Stddev	.1	.5	1.4	.08	3.9	.57
%RSD	.1192	.3144	.3564	.2622	.5651	1.064
#1	116.4	172.2	392.7	28.78	683.8	54.13
#2	116.6	173.0	394.7	28.89	689.3	53.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7518.3	76118.	21701.
Stddev	15.7	264.	31.
%RSD	.20830	.34668	.14169
#1	7529.4	75931.	21679.
#2	7507.3	76305.	21722.

Sample Name: 50163047005_29028 Acquired: 1/23/2017 11:14:52 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5695	169700.	167.5	170.1	1035.	6.911
Stddev	1.682	315.	1.5	2.4	3.	.078
%RSD	295.3	.1858	.8763	1.413	.2783	1.129
#1	-1.759	169500.	168.5	168.4	1033.	6.856
#2	.6197	170000.	166.5	171.8	1037.	6.966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	147700.	2.243	125.2	225.5	282.2	334900.
Stddev	81.	.088	.4	3.7	2.0	1383.
%RSD	.0545	3.909	.3236	1.624	.7105	.4129
#1	147800.	2.305	125.5	228.1	280.8	333900.
#2	147700.	2.181	124.9	222.9	283.6	335900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047005_29028 Acquired: 1/23/2017 11:14:52 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12820.**	**114600.**	**8557.**	**13.38**	**285.4**	**162.9**
Stddev	5.	582.	35.	.41	.9	1.3
%RSD	.0379	.5078	.4060	3.094	.3205	.7767
#1	12820.	114200.	8533.	13.08	286.0	163.8
#2	12820.	115000.	8582.	13.67	284.7	162.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.49**	**.3217**	**6480.**	**24.37**	**3345.**	**21.63**
Stddev	1.94	1.048	28.	.41	2.	2.92
%RSD	16.84	325.8	.4349	1.685	.0480	13.51
#1	12.86	1.063	6460.	24.08	3344.	23.70
#2	10.12	-.4195	6500.	24.66	3346.	19.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047005_29028 Acquired: 1/23/2017 11:14:52 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	399.4	700.6	2008.	215.0	10760.	245.7
Stddev	3.1	3.0	16.	.7	19.	1.0
%RSD	.7734	.4292	.7814	.3153	.1765	.4019
#1	397.2	702.7	1997.	214.5	10770.	245.0
#2	401.6	698.5	2019.	215.4	10750.	246.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7703.4	78609.	23487.
Stddev	1.4	93.	103.
%RSD	.01805	.11802	.43998
#1	7702.4	78675.	23414.
#2	7704.4	78544.	23561.

Sample Name: 50163047006_29028 Acquired: 1/23/2017 11:17:01 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.828	292700.	81.12	173.8	1466.	19.91
Stddev	1.147	707.	2.37	1.4	1.	.12
%RSD	62.75	.2416	2.920	.7952	.0400	.5880
#1	-2.639	292200.	79.45	174.8	1466.	19.99
#2	-1.017	293200.	82.80	172.8	1467.	19.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40680.	1.377	122.9	355.8	305.8	F 491700.
Stddev	4.	.040	.0	4.1	2.4	161.
%RSD	.0094	2.897	.0082	1.140	.7841	.0327
#1	40680.	1.405	122.9	353.0	307.5	491800.
#2	40680.	1.348	122.9	358.7	304.1	491600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 50163047006_29028 Acquired: 1/23/2017 11:17:01 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20860.	61030.	3196.	.9268	401.1	119.1
Stddev	53.	26.	3.	.1357	1.2	.5
%RSD	.2552	.0423	.0845	14.64	.2888	.4304
#1	20820.	61010.	3198.	1.023	401.9	118.8
#2	20890.	61050.	3194.	.8309	400.3	119.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.76	1.811	6560.	25.99	534.8	-4.682
Stddev	2.08	5.182	1.	.03	.7	.768
%RSD	11.72	286.2	.0200	.1283	.1313	16.40
#1	16.29	-1.853	6559.	25.97	534.3	-4.139
#2	19.23	5.475	6561.	26.02	535.3	-5.225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047006_29028 Acquired: 1/23/2017 11:17:01 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	392.0	878.8	1290.	187.1	3173.	255.2
Stddev	.4	4.1	.	.4	48.	.5
%RSD	.0902	.4699	.0022	.2156	1.504	.2086
#1	392.2	881.7	1290.	186.9	3206.	254.9
#2	391.7	875.9	1290.	187.4	3139.	255.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8422.9	85378.	25341.
Stddev	14.4	34.	13.
%RSD	.17080	.03954	.05315
#1	8412.8	85401.	25332.
#2	8433.1	85354.	25351.

Sample Name: 50163047007_29028 Acquired: 1/23/2017 11:19:04 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.230	170700.	156.3	166.6	1050.	6.759
Stddev	1.779	219.	.3	.3	1.	.080
%RSD	144.6	.1284	.2008	.1603	.1081	1.182
#1	.0279	170500.	156.5	166.8	1049.	6.703
#2	-2.487	170800.	156.1	166.4	1050.	6.816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	159900.	1.629	115.4	222.8	253.4	334400.
Stddev	437.	.055	.8	.7	.2	573.
%RSD	.2730	3.400	.7167	.3142	.0805	.1714
#1	159600.	1.590	116.0	222.3	253.3	334800.
#2	160200.	1.669	114.8	223.3	253.5	334000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047007_29028 Acquired: 1/23/2017 11:19:04 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12520.**	**122300.**	**9332.**	**12.06**	**267.3**	**144.0**
Stddev	35.	271.	38.	.43	1.7	2.0
%RSD	.2825	.2216	.4093	3.535	.6297	1.395
#1	12550.	122500.	9305.	12.37	268.5	145.4
#2	12500.	122100.	9359.	11.76	266.1	142.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.975**	**-3.881**	**6179.**	**23.91**	**3236.**	**23.35**
Stddev	.833	6.357	2.	.42	2.	2.27
%RSD	10.44	163.8	.0345	1.738	.0585	9.705
#1	8.563	-8.376	6181.	23.62	3235.	24.95
#2	7.386	.6146	6178.	24.21	3238.	21.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163047007_29028 Acquired: 1/23/2017 11:19:04 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	379.6	685.7	2022.	215.4	10700.	247.2
Stddev	1.5	2.5	2.	.5	90.	.5
%RSD	.4077	.3712	.0866	.2428	.8382	.1842
#1	380.7	687.5	2021.	215.0	10770.	246.9
#2	378.6	683.9	2024.	215.8	10640.	247.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7662.6	78398.	23447.
Stddev	6.6	16.	49.
%RSD	.08654	.02053	.21052
#1	7657.9	78387.	23412.
#2	7667.3	78410.	23482.

Sample Name: CCV Acquired: 1/23/2017 11:23:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	491.8	10430.	1026.	1058.	1002.	987.2
Stddev	3.0	38.	3.	8.	4.	2.0
%RSD	.6141	.3670	.3280	.7894	.3695	.2010
#1	489.6	10410.	1029.	1052.	999.8	985.8
#2	493.9	10460.	1024.	1064.	1005.	988.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9445.	1001.	1021.	960.4	941.3	10200.
Stddev	31.	1.	1.	3.1	3.8	5.
%RSD	.3295	.1388	.0744	.3199	.4061	.0506
#1	9423.	1002.	1021.	958.3	938.6	10210.
#2	9467.	999.8	1020.	962.6	944.0	10200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/23/2017 11:23:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10120.**	**9990.**	**940.6**	**1033.**	**1043.**	**954.7**
Stddev	14.	31.	3.4	5.	2.	1.4
%RSD	.1424	.3123	.3608	.4606	.1750	.1454
#1	10110.	9968.	938.2	1037.	1044.	955.7
#2	10130.	10010.	943.0	1030.	1042.	953.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1099.**	**1026.**	F **4397.**	**1092.**	**1049.**	**1038.**
Stddev	1.	4.	27.	1.	.	1.
%RSD	.0892	.3618	.6243	.1190	.0374	.0952
#1	1100.	1024.	4377.	1093.	1049.	1039.
#2	1098.	1029.	4416.	1091.	1049.	1038.
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: CCV Acquired: 1/23/2017 11:23:22 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1024.	978.5	10690.	973.5	1090.	1054.
Stddev	.	.5	48.	2.0	4.	5.
%RSD	.0232	.0463	.4455	.2034	.3691	.5157
#1	1024.	978.8	10660.	972.1	1087.	1051.
#2	1024.	978.2	10720.	974.9	1093.	1058.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7289.3	73964.	20865.
Stddev	16.3	231.	120.
%RSD	.22379	.31214	.57638
#1	7277.8	74127.	20950.
#2	7300.9	73801.	20780.

Sample Name: CCB Acquired: 1/23/2017 11:25:15 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4773	-2.294	-1.403	1.602	-.0825	.0960
Stddev	4.201	.348	.261	.396	.2929	.0237
%RSD	880.2	15.16	18.64	24.73	355.0	24.70
#1	3.448	-2.540	-1.588	1.882	-.2896	.1128
#2	-2.494	-2.048	-1.218	1.322	.1246	.0793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-28.54	.2212	-.1389	.1794	2.565	16.47
Stddev	.10	.0540	.0058	1.907	1.359	3.64
%RSD	.3408	24.41	4.173	1063.	52.99	22.12
#1	-28.47	.2594	-.1430	1.528	1.604	13.89
#2	-28.61	.1830	-.1348	-1.169	3.526	19.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 11:25:15 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.07	-.7021	.2900	5.468	-.1605	-.8236
Stddev	10.18	2.196	.0047	1.214	.3166	.8760
%RSD	46.14	312.8	1.624	22.20	197.3	106.4
#1	14.87	.8508	.2867	4.610	-.3844	-1.443
#2	29.27	-2.255	.2933	6.327	.0634	-.2042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.572	-1.982	-.7034	-.0541	.8843	1.335
Stddev	1.674	4.089	2.243	.2716	.2034	.200
%RSD	65.09	206.3	319.0	501.9	23.00	14.96
#1	1.388	.9098	-2.290	-.2462	1.028	1.476
#2	3.756	-4.873	.8830	.1379	.7405	1.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/23/2017 11:25:15 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.040	-3.782	89.30	.0442	1.249	-1.499
Stddev	.305	.046	10.30	.0211	.938	.260
%RSD	29.36	1.213	11.53	47.76	75.07	17.32
#1	-.8239	-3.750	82.02	.0293	1.912	-1.315
#2	-1.256	-3.815	96.58	.0592	.5861	-1.682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7384.8	75552.	20777.
Stddev	10.2	19.	13.
%RSD	.13831	.02456	.06463
#1	7377.6	75565.	20787.
#2	7392.0	75539.	20768.

Prep Log Report

Batch Information: MPRP 23900 **Template Version: EF-IN-I-318(rev.00, 30Nov2011)**

Prep Method	EPA 3050	Analysis Method	EPA 6010	Extracted By	KJE	Extracted Date/Time	01/20/2017 11:23:01:436
Solid Matrix Lot	122973	Instrument	50BAL3	Block ID	5	Block Temp (C)	97
Correction Factor (C)	-1.1	Corrected Temp. (C)	95.9	Acceptance Range:	95+/-3 C	Thermometer ID	PT-236
Digestion Vessel Lot	133764	Batch Notes	filtermate 139414/antifoam 134601	Reviewed By	MJC	Reviewed By Date	01/23/2017 08:00

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	1:1 HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	6010-SPK (mL)
6010 S_P	BLANK	**1710596**	Solid	1	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	LCS	**1710597**	Solid	1	134758 (5)	109929 (4)	134756 (5)	50		2*	140357 (1)
6010 S_P	PS	**50163047001**	Solid	1.071	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163047002**	Solid	1.083	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163047003**	Solid	1.082	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	RQS	**50163047004**	Solid	1.182	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	MS	**1710598**	Solid	1.133	134758 (5)	109929 (4)	134756 (5)	50		2*	140357 (1)
6010 S_P	MSD	**1710599**	Solid	1.098	134758 (5)	109929 (4)	134756 (5)	50		2*	140357 (1)
6010 S_P	PS	**50163047005**	Solid	1.162	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163047006**	Solid	1.018	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163047007**	Solid	1.141	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115001**	Solid	1.188	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115002**	Solid	1.105	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115003**	Solid	1.013	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115004**	Solid	1.029	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115005**	Solid	1.051	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50163115006**	Solid	1.101	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**50162521001**	Non Aqueous Liquid	1.066	134758 (5)	109929 (4)	134756 (5)	50		2*	
6010 S_P	PS	**10375939001**	Solid	1.03	134758 (5)	109929 (4)	134756 (5)	50		1*	
6010 S_P	PS	**10375939002**	Solid	1.097	134758 (5)	109929 (4)	134756 (5)	50		1*	

Sample Notes:

Fri, 27 Jan 2017 10:20:52 -0600

Prep Log Report

1*: w/b KJE 1/19/17 2*: w/b phb 011917

Standard Notes:

140357: ICP-SPK

SAMPLE NO.

GP-1 4-6'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	23.5		%	1	01/18/2017 14:24

SAMPLE NO.

GP-1 10-12'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	20.4		%	1	01/18/2017 14:24

SAMPLE NO.

GP-2 2-4'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.8		%	1	01/18/2017 14:24

SAMPLE NO.

GP-2 12-14'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.9		%	1	01/18/2017 14:25

SAMPLE NO.

GP-3 2-4'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.7		%	1	01/18/2017 14:25

SAMPLE NO.

GP-3 14-16'

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	16.4		%	1	01/18/2017 14:25

SAMPLE NO.

FD-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Lab Sample ID: 50163047007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	20.0		%	1	01/18/2017 14:25

SAMPLE NO.

1710474DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	19.9	20.1	1

SAMPLE NO.

1710475DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	14.0	14.4	3

FORM XII INORGANIC-1

PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Preparation Method: SM 2540G Batch: PMST 12949

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1710474	1710474DUP	01/18/2017	1	1
1710475	1710475DUP	01/18/2017	1	1
50163047001	GP-1 4-6'	01/18/2017	1	1
50163047002	GP-1 10-12'	01/18/2017	1	1
50163047003	GP-2 2-4'	01/18/2017	1	1
50163047004	GP-2 12-14'	01/18/2017	1	1
50163047005	GP-3 2-4'	01/18/2017	1	1
50163047006	GP-3 14-16'	01/18/2017	1	1
50163047007	FD-1	01/18/2017	1	1

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163047 Contract: Quick Shop / IN17002

Instrument ID: 50BALH Analysis Method: SM 2540G

Start Date: 01/18/2017 14:24 End Date: 01/18/2017 14:25

Sample Name	Lab Sample ID	D/F	Date	Time	MOIST
GP-1 4-6'	50163047001	1	01/18/2017	14:24	X
GP-1 10-12'	50163047002	1	01/18/2017	14:24	X
GP-2 2-4'	50163047003	1	01/18/2017	14:24	X
GP-2 12-14'	50163047004	1	01/18/2017	14:25	X
1710474DUP	1710474	1	01/18/2017	14:25	X
GP-3 2-4'	50163047005	1	01/18/2017	14:25	X
GP-3 14-16'	50163047006	1	01/18/2017	14:25	X
FD-1	50163047007	1	01/18/2017	14:25	X
50163048001	50163048001	1	01/18/2017	14:25	X
1710475DUP	1710475	1	01/18/2017	14:25	X

Prep Log Report

Batch Information: PMST 12949

Template Version: EF-IN-Q-337-Rev.02 (16 Jun 2015) Percent Moisture

Analysis Method	SM 2540G	Analyzed By	GWA	Instrument	50BALH	Oven ID	50WETZ
Thermometer ID	PT-112	Oven Temp Correction Factor	-1.0	Oven Temp In1 | Corr | Date/Time | Init	105.4 | 104.4 | 01/18/2017 15:28 | GWA	Oven Temp Out1 | Corr | Date/Time | Init	105.0 | 104.0 | 01/19/2017 11:02 | MLS
Oven Temp In2 | Corr | Date/Time | Init		Reviewed By	SLB	Reviewed By Date	01/19/2017 12:18	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50163110001**	Y	86.04	13.96	01/18/2017 14:23:47	5.952	1.032	6.75	5.952	M	251	
DRY WEIGHT	PS	**50163110002**	Y	94.40	5.601	01/18/2017 14:23:54	5.675	1.04	5.95	5.675	M	252	
DRY WEIGHT	PS	**50163110003**	Y	88.14	11.86	01/18/2017 14:24:01	6.098	1.05	6.777	6.098	M	253	
DRY WEIGHT	PS	**50163110004**	Y	90.77	9.226	01/18/2017 14:24:11	6.37	0.998	6.916	6.37	M	254	
DRY WEIGHT	PS	**50163110005**	Y	90.75	9.250	01/18/2017 14:24:21	5.983	1.009	6.49	5.983	M	255	
DRY WEIGHT	PS	**50163110006**	Y	86.76	13.24	01/18/2017 14:24:28	6.459	1.051	7.284	6.459	M	256	
DRY WEIGHT	PS	**50163047001**	Y	76.53	23.47	01/18/2017 14:24:36	18.323	1.005	23.633	18.323	M	257	
DRY WEIGHT	PS	**50163047002**	Y	79.64	20.36	01/18/2017 14:24:42	15.343	1.038	18.999	15.343	M	258	
DRY WEIGHT	PS	**50163047003**	Y	80.24	19.76	01/18/2017 14:24:50	22.058	1.017	27.238	22.058	M	259	
DRY WEIGHT	RQS	**50163047004**	Y	80.12	19.88	01/18/2017 14:25:00	19.708	1.034	24.341	19.708	M	260	
DRY WEIGHT	DUP	**1710474**	Y	79.89	20.11	01/18/2017 14:25:09	19.332	1.015	23.942	19.332	M	261	
DRY WEIGHT	PS	**50163047005**	Y	80.32	19.68	01/18/2017 14:25:16	22.24	1.028	27.438	22.24	M	262	
DRY WEIGHT	PS	**50163047006**	Y	83.59	16.41	01/18/2017 14:25:23	18.459	1.009	21.884	18.459	M	263	
DRY WEIGHT	PS	**50163047007**	Y	80.00	20.00	01/18/2017 14:25:30	25.145	1.01	31.178	25.145	M	264	
DRY WEIGHT	PS	**50163048001**	Y	85.95	14.05	01/18/2017 14:25:36	17.932	1	20.699	17.932	M	265	
DRY WEIGHT	DUP	**1710475**	Y	85.59	14.41	01/18/2017 14:25:43	18.455	1.017	21.39	18.455	M	266	
DRY WEIGHT	PS	**50163048002**	Y	83.09	16.91	01/18/2017 14:25:53	10.47	1.023	12.393	10.47	M	267	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50163048003**	Y	85.99	14.01	01/18/2017 14:26:02	16.837	1.04	19.41	16.837	M	268	
DRY WEIGHT	PS	**50163048004**	Y	87.22	12.78	01/18/2017 14:26:10	21.127	1.023	24.073	21.127	M	269	

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50163373

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January 26, 2017

Mr. Brad Gentry
IWM Consulting
7428 Rockville Road
Indianapolis, IN 46214

RE: Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Dear Mr. Gentry:
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50163373001	**MW-1**	Water	01/20/17 11:30	01/20/17 16:55
50163373002	**MW-2**	Water	01/20/17 11:50	01/20/17 16:55
50163373003	**MW-3**	Water	01/20/17 12:30	01/20/17 16:55
50163373004	**FD-1**	Water	01/20/17 08:00	01/20/17 16:55
50163373005	**TB-1**	Water	01/20/17 08:00	01/20/17 16:55

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SAMPLE ANALYTE COUNT

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50163373001	**MW-1**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373002	**MW-2**	EPA 6010	FRW	1
		EPA 8260	DAE	76
50163373003	**MW-3**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373004	**FD-1**	EPA 6010	FRW	1
		EPA 8260	DAE	75
50163373005	**TB-1**	EPA 8260	DAE	75

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SUMMARY OF DETECTION

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50163373001	**MW-1**					
EPA 6010	Lead	87.2	ug/L	10.0	01/26/17 08:01	
EPA 8260	Methyl-tert-butyl ether	9.3	ug/L	4.0	01/26/17 08:25	
50163373002	**MW-2**					
EPA 6010	Lead	68.4	ug/L	10.0	01/26/17 08:03	
50163373003	**MW-3**					
EPA 6010	Lead	126	ug/L	10.0	01/26/17 08:14	
EPA 8260	Benzene	5.3	ug/L	5.0	01/25/17 18:07	
EPA 8260	Ethylbenzene	13.8	ug/L	5.0	01/25/17 18:07	
EPA 8260	Isopropylbenzene (Cumene)	7.2	ug/L	5.0	01/25/17 18:07	
EPA 8260	1-Methylnaphthalene	9.0	ug/L	5.0	01/25/17 18:07	N2
EPA 8260	Methyl-tert-butyl ether	5.1	ug/L	4.0	01/25/17 18:07	
EPA 8260	Naphthalene	5.0	ug/L	1.7	01/25/17 18:07	
EPA 8260	n-Propylbenzene	15.1	ug/L	5.0	01/25/17 18:07	
50163373004	**FD-1**					
EPA 6010	Lead	44.6	ug/L	10.0	01/26/17 08:16	
EPA 8260	Benzene	5.1	ug/L	5.0	01/25/17 18:39	
EPA 8260	Ethylbenzene	13.6	ug/L	5.0	01/25/17 18:39	
EPA 8260	Isopropylbenzene (Cumene)	7.4	ug/L	5.0	01/25/17 18:39	
EPA 8260	1-Methylnaphthalene	8.7	ug/L	5.0	01/25/17 18:39	N2
EPA 8260	Methyl-tert-butyl ether	5.8	ug/L	4.0	01/25/17 18:39	
EPA 8260	Naphthalene	4.0	ug/L	1.7	01/25/17 18:39	
EPA 8260	n-Propylbenzene	16.4	ug/L	5.0	01/25/17 18:39	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-1 **Lab ID: 50163373001** Collected: 01/20/17 11:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**87.2**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:01	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/26/17 08:25	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/26/17 08:25	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/26/17 08:25	107-13-1	
Benzene	ND	ug/L	5.0	1		01/26/17 08:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/26/17 08:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/26/17 08:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/26/17 08:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/26/17 08:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/26/17 08:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/26/17 08:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/26/17 08:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/26/17 08:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/26/17 08:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/26/17 08:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/26/17 08:25	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/26/17 08:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/26/17 08:25	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/26/17 08:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/26/17 08:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/26/17 08:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/26/17 08:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/26/17 08:25	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/26/17 08:25	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-1 **Lab ID: 50163373001** Collected: 01/20/17 11:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/26/17 08:25	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/26/17 08:25	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/26/17 08:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/26/17 08:25	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/26/17 08:25	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/26/17 08:25	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/26/17 08:25	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/26/17 08:25	108-10-1	
Methyl-tert-butyl ether	**9.3**	ug/L	4.0	1		01/26/17 08:25	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/26/17 08:25	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	103-65-1	
Styrene	ND	ug/L	5.0	1		01/26/17 08:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/26/17 08:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/26/17 08:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/26/17 08:25	127-18-4	
Toluene	ND	ug/L	5.0	1		01/26/17 08:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/26/17 08:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/26/17 08:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/26/17 08:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/26/17 08:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/26/17 08:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/26/17 08:25	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/26/17 08:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/26/17 08:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/26/17 08:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		01/26/17 08:25	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-116	1		01/26/17 08:25	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		01/26/17 08:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-2 **Lab ID: 50163373002** Collected: 01/20/17 11:50 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**68.4**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:03	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 16:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 16:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 16:28	107-13-1	
Benzene	ND	ug/L	5.0	1		01/25/17 16:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 16:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 16:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 16:28	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 16:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 16:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 16:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 16:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 16:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 16:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 16:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 16:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 16:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 16:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 16:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 16:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 16:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 16:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 16:28	87-68-3	R1
n-Hexane	ND	ug/L	5.0	1		01/25/17 16:28	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-2 **Lab ID: 50163373002** Collected: 01/20/17 11:50 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 16:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 16:28	74-88-4	R1
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/25/17 16:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 16:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 16:28	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/25/17 16:28	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 16:28	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 16:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/25/17 16:28	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/25/17 16:28	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 16:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 16:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 16:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 16:28	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 16:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 16:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 16:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 16:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 16:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 16:28	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 16:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 16:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 16:28	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	1		01/26/17 02:39	179601-23-1	
Surrogates								
Dibromofluoromethane (S)	95	%.	84-118	1		01/25/17 16:28	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-116	1		01/25/17 16:28	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		01/25/17 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-3 **Lab ID: 50163373003** Collected: 01/20/17 12:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**126**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:14	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 18:07	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 18:07	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 18:07	107-13-1	
Benzene	**5.3**	ug/L	5.0	1		01/25/17 18:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 18:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 18:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 18:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 18:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 18:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 18:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 18:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 18:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 18:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:07	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 18:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 18:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 18:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 18:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:07	10061-02-6	
Ethylbenzene	**13.8**	ug/L	5.0	1		01/25/17 18:07	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 18:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 18:07	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 18:07	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: MW-3 **Lab ID: 50163373003** Collected: 01/20/17 12:30 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 18:07	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 18:07	74-88-4	
Isopropylbenzene (Cumene)	**7.2**	ug/L	5.0	1		01/25/17 18:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 18:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 18:07	75-09-2	
1-Methylnaphthalene	**9.0**	ug/L	5.0	1		01/25/17 18:07	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 18:07	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 18:07	108-10-1	
Methyl-tert-butyl ether	**5.1**	ug/L	4.0	1		01/25/17 18:07	1634-04-4	
Naphthalene	**5.0**	ug/L	1.7	1		01/25/17 18:07	91-20-3	
n-Propylbenzene	**15.1**	ug/L	5.0	1		01/25/17 18:07	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 18:07	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 18:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 18:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 18:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:07	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 18:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 18:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 18:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		01/25/17 18:07	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		01/25/17 18:07	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		01/25/17 18:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: FD-1 **Lab ID: 50163373004** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	**44.6**	ug/L	10.0	1	01/23/17 07:25	01/26/17 08:16	7439-92-1	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 18:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 18:39	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 18:39	107-13-1	
Benzene	**5.1**	ug/L	5.0	1		01/25/17 18:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 18:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 18:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 18:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 18:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 18:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 18:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 18:39	10061-02-6	
Ethylbenzene	**13.6**	ug/L	5.0	1		01/25/17 18:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 18:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 18:39	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 18:39	110-54-3	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: FD-1 **Lab ID: 50163373004** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	25.0	1		01/25/17 18:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 18:39	74-88-4	
Isopropylbenzene (Cumene)	**7.4**	ug/L	5.0	1		01/25/17 18:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 18:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 18:39	75-09-2	
1-Methylnaphthalene	**8.7**	ug/L	5.0	1		01/25/17 18:39	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 18:39	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 18:39	108-10-1	
Methyl-tert-butyl ether	**5.8**	ug/L	4.0	1		01/25/17 18:39	1634-04-4	
Naphthalene	**4.0**	ug/L	1.7	1		01/25/17 18:39	91-20-3	
n-Propylbenzene	**16.4**	ug/L	5.0	1		01/25/17 18:39	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 18:39	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 18:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 18:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 18:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 18:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 18:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	84-118	1		01/25/17 18:39	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		01/25/17 18:39	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		01/25/17 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: TB-1 **Lab ID: 50163373005** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/25/17 01:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/25/17 01:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/25/17 01:58	107-13-1	
Benzene	ND	ug/L	5.0	1		01/25/17 01:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/25/17 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/25/17 01:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/25/17 01:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/25/17 01:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/25/17 01:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/25/17 01:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/25/17 01:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/25/17 01:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/25/17 01:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 01:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/25/17 01:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/25/17 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/25/17 01:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/25/17 01:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/25/17 01:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/25/17 01:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/25/17 01:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/17 01:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/25/17 01:58	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/25/17 01:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/25/17 01:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/25/17 01:58	98-82-8	

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ANALYTICAL RESULTS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Sample: TB-1 **Lab ID: 50163373005** Collected: 01/20/17 08:00 Received: 01/20/17 16:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		01/25/17 01:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/25/17 01:58	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/25/17 01:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/25/17 01:58	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/25/17 01:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/25/17 01:58	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/25/17 01:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	103-65-1	
Styrene	ND	ug/L	5.0	1		01/25/17 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/25/17 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/25/17 01:58	127-18-4	
Toluene	ND	ug/L	5.0	1		01/25/17 01:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/25/17 01:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/25/17 01:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/25/17 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/25/17 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/25/17 01:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/25/17 01:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/25/17 01:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/25/17 01:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		01/25/17 01:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		01/25/17 01:58	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		01/25/17 01:58	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		01/25/17 01:58	2037-26-5	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 370859 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50163373001, 50163373002, 50163373003, 50163373004

METHOD BLANK: 1712434 Matrix: Water
Associated Lab Samples: 50163373001, 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	01/26/17 07:58	

LABORATORY CONTROL SAMPLE: 1712435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	937	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712436 1712437

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	68.4	1000	1000	890	876	82	81	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371236 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50163373005

METHOD BLANK: 1713790 | Matrix: Water
Associated Lab Samples: 50163373005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
1,1-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichloroethane	ug/L	ND	5.0	01/25/17 00:52	
1,2-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1,3-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
1-Methylnaphthalene	ug/L	ND	5.0	01/25/17 00:52	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/25/17 00:52	
2-Butanone (MEK)	ug/L	ND	25.0	01/25/17 00:52	
2-Chlorotoluene	ug/L	ND	5.0	01/25/17 00:52	
2-Hexanone	ug/L	ND	25.0	01/25/17 00:52	
2-Methylnaphthalene	ug/L	ND	10.0	01/25/17 00:52	
4-Chlorotoluene	ug/L	ND	5.0	01/25/17 00:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/25/17 00:52	
Acetone	ug/L	ND	100	01/25/17 00:52	
Acrolein	ug/L	ND	50.0	01/25/17 00:52	
Acrylonitrile	ug/L	ND	100	01/25/17 00:52	
Benzene	ug/L	ND	5.0	01/25/17 00:52	
Bromobenzene	ug/L	ND	5.0	01/25/17 00:52	
Bromochloromethane	ug/L	ND	5.0	01/25/17 00:52	
Bromodichloromethane	ug/L	ND	5.0	01/25/17 00:52	
Bromoform	ug/L	ND	5.0	01/25/17 00:52	
Bromomethane	ug/L	ND	5.0	01/25/17 00:52	
Carbon disulfide	ug/L	ND	10.0	01/25/17 00:52	
Carbon tetrachloride	ug/L	ND	5.0	01/25/17 00:52	
Chlorobenzene	ug/L	ND	5.0	01/25/17 00:52	
Chloroethane	ug/L	ND	5.0	01/25/17 00:52	
Chloroform	ug/L	ND	5.0	01/25/17 00:52	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1713790 Matrix: Water
Associated Lab Samples: 50163373005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/25/17 00:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
Dibromochloromethane	ug/L	ND	5.0	01/25/17 00:52	
Dibromomethane	ug/L	ND	5.0	01/25/17 00:52	
Dichlorodifluoromethane	ug/L	ND	5.0	01/25/17 00:52	
Ethyl methacrylate	ug/L	ND	100	01/25/17 00:52	
Ethylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/25/17 00:52	
Iodomethane	ug/L	ND	10.0	01/25/17 00:52	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/25/17 00:52	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/25/17 00:52	
Methylene Chloride	ug/L	ND	5.0	01/25/17 00:52	
n-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
n-Hexane	ug/L	ND	5.0	01/25/17 00:52	
n-Propylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Naphthalene	ug/L	ND	1.7	01/25/17 00:52	
p-Isopropyltoluene	ug/L	ND	5.0	01/25/17 00:52	
sec-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Styrene	ug/L	ND	5.0	01/25/17 00:52	
tert-Butylbenzene	ug/L	ND	5.0	01/25/17 00:52	
Tetrachloroethene	ug/L	ND	5.0	01/25/17 00:52	
Toluene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 00:52	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/25/17 00:52	
Trichloroethene	ug/L	ND	5.0	01/25/17 00:52	
Trichlorofluoromethane	ug/L	ND	5.0	01/25/17 00:52	
Vinyl acetate	ug/L	ND	50.0	01/25/17 00:52	
Vinyl chloride	ug/L	ND	2.0	01/25/17 00:52	
Xylene (Total)	ug/L	ND	10.0	01/25/17 00:52	
4-Bromofluorobenzene (S)	%.	98	79-116	01/25/17 00:52	
Dibromofluoromethane (S)	%.	95	84-118	01/25/17 00:52	
Toluene-d8 (S)	%.	100	86-110	01/25/17 00:52	

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.4	91	74-130	
1,1,1-Trichloroethane	ug/L	50	42.2	84	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	72-124	
1,1,2-Trichloroethane	ug/L	50	45.0	90	75-125	
1,1-Dichloroethane	ug/L	50	43.7	87	70-120	
1,1-Dichloroethene	ug/L	50	43.8	88	69-127	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	47.4	95	81-129	
1,2,3-Trichlorobenzene	ug/L	50	47.5	95	71-130	
1,2,3-Trichloropropane	ug/L	50	49.6	99	77-127	
1,2,4-Trichlorobenzene	ug/L	50	46.5	93	66-126	
1,2,4-Trimethylbenzene	ug/L	50	47.7	95	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	46.1	92	76-125	
1,2-Dichlorobenzene	ug/L	50	46.6	93	77-122	
1,2-Dichloroethane	ug/L	50	44.6	89	70-123	
1,2-Dichloropropane	ug/L	50	43.5	87	77-124	
1,3,5-Trimethylbenzene	ug/L	50	47.7	95	75-124	
1,3-Dichlorobenzene	ug/L	50	46.2	92	76-124	
1,3-Dichloropropane	ug/L	50	47.6	95	77-123	
1,4-Dichlorobenzene	ug/L	50	43.7	87	75-117	
1-Methylnaphthalene	ug/L	50	46.7	93	55-151	N2
2,2-Dichloropropane	ug/L	50	44.9	90	44-147	
2-Butanone (MEK)	ug/L	250	213	85	60-135	
2-Chlorotoluene	ug/L	50	48.7	97	75-124	
2-Hexanone	ug/L	250	224	90	65-139	
2-Methylnaphthalene	ug/L	50	38.2	76	58-148	
4-Chlorotoluene	ug/L	50	48.7	97	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	217	87	66-134	
Acetone	ug/L	250	221	88	47-144	
Acrolein	ug/L	1000	1250	125	31-200	
Acrylonitrile	ug/L	200	177	89	64-133	
Benzene	ug/L	50	44.7	89	76-122	
Bromobenzene	ug/L	50	44.7	89	75-117	
Bromochloromethane	ug/L	50	45.3	91	74-134	
Bromodichloromethane	ug/L	50	43.4	87	71-124	
Bromoform	ug/L	50	38.9	78	60-125	
Bromomethane	ug/L	50	52.8	106	23-194	
Carbon disulfide	ug/L	50	42.3	85	63-130	
Carbon tetrachloride	ug/L	50	44.1	88	73-133	
Chlorobenzene	ug/L	50	44.8	90	76-118	
Chloroethane	ug/L	50	48.7	97	50-147	
Chloroform	ug/L	50	46.5	93	70-119	
Chloromethane	ug/L	50	44.1	88	52-136	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	74-120	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	71-134	
Dibromochloromethane	ug/L	50	42.7	85	73-127	
Dibromomethane	ug/L	50	44.8	90	75-124	
Dichlorodifluoromethane	ug/L	50	56.8	114	39-166	
Ethyl methacrylate	ug/L	200	180	90	73-136	
Ethylbenzene	ug/L	50	46.7	93	75-123	
Hexachloro-1,3-butadiene	ug/L	50	47.4	95	70-125	
Iodomethane	ug/L	100	89.3	89	56-142	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	84-134	
Methyl-tert-butyl ether	ug/L	50	41.6	83	65-131	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	47.4	95	66-130	
n-Butylbenzene	ug/L	50	48.4	97	70-127	
n-Hexane	ug/L	50	43.9	88	64-131	
n-Propylbenzene	ug/L	50	53.8	108	78-131	
Naphthalene	ug/L	50	44.4	89	65-134	
p-Isopropyltoluene	ug/L	50	49.2	98	75-124	
sec-Butylbenzene	ug/L	50	48.9	98	83-135	
Styrene	ug/L	50	46.9	94	78-128	
tert-Butylbenzene	ug/L	50	41.0	82	62-114	
Tetrachloroethene	ug/L	50	40.1	80	69-119	
Toluene	ug/L	50	46.7	93	74-122	
trans-1,2-Dichloroethene	ug/L	50	44.8	90	72-122	
trans-1,3-Dichloropropene	ug/L	50	44.5	89	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	167	83	39-153	
Trichloroethene	ug/L	50	45.3	91	75-123	
Trichlorofluoromethane	ug/L	50	55.5	111	58-148	
Vinyl acetate	ug/L	200	167	84	67-154	
Vinyl chloride	ug/L	50	52.0	104	61-147	
Xylene (Total)	ug/L	150	141	94	75-127	
4-Bromofluorobenzene (S)	%.			105	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			100	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	32.8	36.6	66	73	44-142	11	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	31.4	35.7	63	71	51-140	13	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	36.5	37.9	73	76	49-138	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	32.4	36.9	65	74	51-138	13	20	
1,1-Dichloroethane	ug/L	ND	50	50	31.5	35.7	63	71	48-137	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	33.2	37.7	66	75	51-144	13	20	
1,1-Dichloropropene	ug/L	ND	50	50	35.8	39.1	72	78	54-150	9	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	34.9	37.1	70	74	32-140	6	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	35.6	39.4	71	79	51-139	10	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.0	36.2	68	72	27-134	6	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	35.2	37.6	70	75	32-143	7	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	33.1	36.9	66	74	52-134	11	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	34.7	36.7	69	73	38-138	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	32.7	36.1	65	72	44-144	10	20	
1,2-Dichloropropane	ug/L	ND	50	50	31.8	36.5	64	73	56-138	14	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	35.6	38.0	71	76	28-146	7	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	34.8	35.6	70	71	36-139	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	34.9	39.3	70	79	54-137	12	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	32.4	34.1	65	68	34-134	5	20	
1-Methylnaphthalene	ug/L	ND	50	50	33.2	36.7	66	73	32-150	10	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	31.9	35.0	64	70	20-142	9	20	
2-Butanone (MEK)	ug/L	ND	250	250	147	163	59	65	44-142	11	20	
2-Chlorotoluene	ug/L	ND	50	50	36.7	38.3	73	77	36-143	4	20	
2-Hexanone	ug/L	ND	250	250	163	181	65	72	43-150	10	20	
2-Methylnaphthalene	ug/L	ND	50	50	26.6	29.4	53	59	27-148	10	20	
4-Chlorotoluene	ug/L	ND	50	50	36.1	38.4	72	77	34-143	6	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	152	169	61	68	46-143	11	20	
Acetone	ug/L	ND	250	250	160	184	64	74	33-150	14	20	
Acrolein	ug/L	ND	1000	1000	855	964	86	96	32-200	12	20	
Acrylonitrile	ug/L	ND	200	200	130	142	65	71	47-143	9	20	
Benzene	ug/L	ND	50	50	32.6	36.8	65	74	51-140	12	20	
Bromobenzene	ug/L	ND	50	50	32.7	36.8	65	74	41-134	12	20	
Bromochloromethane	ug/L	ND	50	50	33.7	38.0	67	76	53-148	12	20	
Bromodichloromethane	ug/L	ND	50	50	31.2	35.6	62	71	46-137	13	20	
Bromoform	ug/L	ND	50	50	26.3	28.1	53	56	36-127	6	20	
Bromomethane	ug/L	ND	50	50	21.9	32.7	44	65	10-188	40	20	R1
Carbon disulfide	ug/L	ND	50	50	31.9	36.3	64	73	35-148	13	20	
Carbon tetrachloride	ug/L	ND	50	50	33.1	37.2	66	74	45-151	12	20	
Chlorobenzene	ug/L	ND	50	50	33.5	36.5	67	73	45-138	9	20	
Chloroethane	ug/L	ND	50	50	36.8	41.4	74	83	33-164	12	20	
Chloroform	ug/L	ND	50	50	33.9	37.4	68	75	50-135	10	20	
Chloromethane	ug/L	ND	50	50	30.8	35.9	62	72	38-146	15	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.1	39.8	74	80	43-144	7	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	31.3	35.2	63	70	42-136	12	20	
Dibromochloromethane	ug/L	ND	50	50	30.9	34.1	62	68	45-136	10	20	
Dibromomethane	ug/L	ND	50	50	32.3	35.6	65	71	51-139	10	20	
Dichlorodifluoromethane	ug/L	ND	50	50	44.4	49.0	89	98	29-174	10	20	
Ethyl methacrylate	ug/L	ND	200	200	131	140	65	70	44-150	7	20	
Ethylbenzene	ug/L	ND	50	50	34.1	38.4	68	77	36-146	12	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	37.0	39.7	74	79	14-150	7	20	
Iodomethane	ug/L	ND	100	100	46.5	68.9	47	69	28-153	39	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	36.2	40.3	72	81	43-159	10	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	30.3	32.8	61	66	43-146	8	20	
Methylene Chloride	ug/L	ND	50	50	34.4	39.1	69	78	48-140	13	20	
n-Butylbenzene	ug/L	ND	50	50	36.8	39.0	74	78	16-152	6	20	
n-Hexane	ug/L	ND	50	50	34.6	38.9	69	78	40-144	12	20	
n-Propylbenzene	ug/L	ND	50	50	40.5	42.4	81	85	28-157	5	20	
Naphthalene	ug/L	ND	50	50	31.3	34.0	63	68	38-141	8	20	
p-Isopropyltoluene	ug/L	ND	50	50	36.9	40.2	74	80	21-151	9	20	
sec-Butylbenzene	ug/L	ND	50	50	37.9	39.9	76	80	27-165	5	20	
Styrene	ug/L	ND	50	50	34.7	37.1	69	74	31-148	7	20	
tert-Butylbenzene	ug/L	ND	50	50	30.4	33.4	61	67	24-131	9	20	
Tetrachloroethene	ug/L	ND	50	50	30.9	34.0	62	68	38-139	10	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713792 1713793

Parameter	Units	50163372003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	ND	50	50	34.1	37.9	68	76	44-140	11	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	33.2	37.3	66	75	50-139	12	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	31.3	34.2	63	68	37-138	9	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	113	127	57	63	10-157	11	20	
Trichloroethene	ug/L	ND	50	50	45.0	45.9	90	92	44-146	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	43.5	48.2	87	96	41-164	10	20	
Vinyl acetate	ug/L	ND	200	200	110	120	55	60	15-146	9	20	
Vinyl chloride	ug/L	ND	50	50	39.3	45.1	79	90	43-166	14	20	
Xylene (Total)	ug/L	ND	150	150	103	113	69	76	35-146	9	20	
4-Bromofluorobenzene (S)	%.						102	105	79-116			
Dibromofluoromethane (S)	%.						101	98	84-118			
Toluene-d8 (S)	%.						100	101	86-110			

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371239 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50163373002, 50163373003, 50163373004

METHOD BLANK: 1713801 | Matrix: Water
Associated Lab Samples: 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
1,1-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichloroethane	ug/L	ND	5.0	01/25/17 12:56	
1,2-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1,3-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
1-Methylnaphthalene	ug/L	ND	5.0	01/25/17 12:56	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/25/17 12:56	
2-Butanone (MEK)	ug/L	ND	25.0	01/25/17 12:56	
2-Chlorotoluene	ug/L	ND	5.0	01/25/17 12:56	
2-Hexanone	ug/L	ND	25.0	01/25/17 12:56	
2-Methylnaphthalene	ug/L	ND	10.0	01/25/17 12:56	
4-Chlorotoluene	ug/L	ND	5.0	01/25/17 12:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/25/17 12:56	
Acetone	ug/L	ND	100	01/25/17 12:56	
Acrolein	ug/L	ND	50.0	01/25/17 12:56	
Acrylonitrile	ug/L	ND	100	01/25/17 12:56	
Benzene	ug/L	ND	5.0	01/25/17 12:56	
Bromobenzene	ug/L	ND	5.0	01/25/17 12:56	
Bromochloromethane	ug/L	ND	5.0	01/25/17 12:56	
Bromodichloromethane	ug/L	ND	5.0	01/25/17 12:56	
Bromoform	ug/L	ND	5.0	01/25/17 12:56	
Bromomethane	ug/L	ND	5.0	01/25/17 12:56	
Carbon disulfide	ug/L	ND	10.0	01/25/17 12:56	
Carbon tetrachloride	ug/L	ND	5.0	01/25/17 12:56	
Chlorobenzene	ug/L	ND	5.0	01/25/17 12:56	
Chloroethane	ug/L	ND	5.0	01/25/17 12:56	
Chloroform	ug/L	ND	5.0	01/25/17 12:56	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1713801 Matrix: Water
Associated Lab Samples: 50163373002, 50163373003, 50163373004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/25/17 12:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
Dibromochloromethane	ug/L	ND	5.0	01/25/17 12:56	
Dibromomethane	ug/L	ND	5.0	01/25/17 12:56	
Dichlorodifluoromethane	ug/L	ND	5.0	01/25/17 12:56	
Ethyl methacrylate	ug/L	ND	100	01/25/17 12:56	
Ethylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/25/17 12:56	
Iodomethane	ug/L	ND	10.0	01/25/17 12:56	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/25/17 12:56	
m&p-Xylene	ug/L	ND	5.0	01/25/17 12:56	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/25/17 12:56	
Methylene Chloride	ug/L	ND	5.0	01/25/17 12:56	
n-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
n-Hexane	ug/L	ND	5.0	01/25/17 12:56	
n-Propylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Naphthalene	ug/L	ND	1.7	01/25/17 12:56	
p-Isopropyltoluene	ug/L	ND	5.0	01/25/17 12:56	
sec-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Styrene	ug/L	ND	5.0	01/25/17 12:56	
tert-Butylbenzene	ug/L	ND	5.0	01/25/17 12:56	
Tetrachloroethene	ug/L	ND	5.0	01/25/17 12:56	
Toluene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/25/17 12:56	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/25/17 12:56	
Trichloroethene	ug/L	ND	5.0	01/25/17 12:56	
Trichlorofluoromethane	ug/L	ND	5.0	01/25/17 12:56	
Vinyl acetate	ug/L	ND	50.0	01/25/17 12:56	
Vinyl chloride	ug/L	ND	2.0	01/25/17 12:56	
Xylene (Total)	ug/L	ND	10.0	01/25/17 12:56	
4-Bromofluorobenzene (S)	%.	98	79-116	01/25/17 12:56	
Dibromofluoromethane (S)	%.	96	84-118	01/25/17 12:56	
Toluene-d8 (S)	%.	101	86-110	01/25/17 12:56	

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	74-130	
1,1,1-Trichloroethane	ug/L	50	47.5	95	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	53.0	106	72-124	
1,1,2-Trichloroethane	ug/L	50	50.9	102	75-125	
1,1-Dichloroethane	ug/L	50	48.0	96	70-120	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	46.7	93	69-127	
1,1-Dichloropropene	ug/L	50	50.2	100	81-129	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	71-130	
1,2,3-Trichloropropane	ug/L	50	53.2	106	77-127	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	66-126	
1,2,4-Trimethylbenzene	ug/L	50	51.3	103	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	76-125	
1,2-Dichlorobenzene	ug/L	50	49.6	99	77-122	
1,2-Dichloroethane	ug/L	50	48.4	97	70-123	
1,2-Dichloropropane	ug/L	50	49.2	98	77-124	
1,3,5-Trimethylbenzene	ug/L	50	52.4	105	75-124	
1,3-Dichlorobenzene	ug/L	50	48.6	97	76-124	
1,3-Dichloropropane	ug/L	50	53.2	106	77-123	
1,4-Dichlorobenzene	ug/L	50	46.8	94	75-117	
1-Methylnaphthalene	ug/L	50	50.0	100	55-151	N2
2,2-Dichloropropane	ug/L	50	36.7	73	44-147	
2-Butanone (MEK)	ug/L	250	227	91	60-135	
2-Chlorotoluene	ug/L	50	52.2	104	75-124	
2-Hexanone	ug/L	250	251	100	65-139	
2-Methylnaphthalene	ug/L	50	40.1	80	58-148	
4-Chlorotoluene	ug/L	50	51.5	103	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	66-134	
Acetone	ug/L	250	246	98	47-144	
Acrolein	ug/L	1000	1290	129	31-200	
Acrylonitrile	ug/L	200	187	94	64-133	
Benzene	ug/L	50	47.8	96	76-122	
Bromobenzene	ug/L	50	50.8	102	75-117	
Bromochloromethane	ug/L	50	50.0	100	74-134	
Bromodichloromethane	ug/L	50	47.7	95	71-124	
Bromoform	ug/L	50	41.2	82	60-125	
Bromomethane	ug/L	50	28.7	57	23-194	
Carbon disulfide	ug/L	50	45.2	90	63-130	
Carbon tetrachloride	ug/L	50	49.0	98	73-133	
Chlorobenzene	ug/L	50	49.6	99	76-118	
Chloroethane	ug/L	50	51.7	103	50-147	
Chloroform	ug/L	50	50.6	101	70-119	
Chloromethane	ug/L	50	38.0	76	52-136	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	74-120	
cis-1,3-Dichloropropene	ug/L	50	46.6	93	71-134	
Dibromochloromethane	ug/L	50	47.4	95	73-127	
Dibromomethane	ug/L	50	49.3	99	75-124	
Dichlorodifluoromethane	ug/L	50	60.3	121	39-166	
Ethyl methacrylate	ug/L	200	201	101	73-136	
Ethylbenzene	ug/L	50	50.7	101	75-123	
Hexachloro-1,3-butadiene	ug/L	50	48.6	97	70-125	
Iodomethane	ug/L	100	84.2	84	56-142	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	84-134	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1713802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
m&p-Xylene	ug/L	100	102	102	75-127	
Methyl-tert-butyl ether	ug/L	50	45.2	90	65-131	
Methylene Chloride	ug/L	50	50.7	101	66-130	
n-Butylbenzene	ug/L	50	50.9	102	70-127	
n-Hexane	ug/L	50	42.4	85	64-131	
n-Propylbenzene	ug/L	50	56.9	114	78-131	
Naphthalene	ug/L	50	46.8	94	65-134	
p-Isopropyltoluene	ug/L	50	53.2	106	75-124	
sec-Butylbenzene	ug/L	50	52.9	106	83-135	
Styrene	ug/L	50	52.2	104	78-128	
tert-Butylbenzene	ug/L	50	43.4	87	62-114	
Tetrachloroethene	ug/L	50	44.1	88	69-119	
Toluene	ug/L	50	50.8	102	74-122	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	72-122	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	162	81	39-153	
Trichloroethene	ug/L	50	50.3	101	75-123	
Trichlorofluoromethane	ug/L	50	58.5	117	58-148	
Vinyl acetate	ug/L	200	179	89	67-154	
Vinyl chloride	ug/L	50	54.8	110	61-147	
Xylene (Total)	ug/L	150	154	103	75-127	
4-Bromofluorobenzene (S)	%.			104	79-116	
Dibromofluoromethane (S)	%.			101	84-118	
Toluene-d8 (S)	%.			101	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	34.7	38.8	69	78	44-142	11	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	34.7	38.9	69	78	51-140	12	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	39.4	41.9	79	84	49-138	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	35.6	38.8	71	78	51-138	9	20	
1,1-Dichloroethane	ug/L	ND	50	50	35.7	38.5	71	77	48-137	8	20	
1,1-Dichloroethene	ug/L	ND	50	50	36.8	40.5	74	81	51-144	10	20	
1,1-Dichloropropene	ug/L	ND	50	50	39.2	41.8	78	84	54-150	6	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	34.7	39.8	69	80	32-140	14	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	39.6	41.1	79	82	51-139	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	33.3	38.3	67	77	27-134	14	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	38.7	42.5	72	80	32-143	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	37.5	39.4	75	79	52-134	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	36.7	39.2	73	78	38-138	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	36.9	39.7	74	79	44-144	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	36.3	38.9	73	78	56-138	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	37.7	42.5	74	83	28-146	12	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	ND	50	50	35.9	38.4	72	77	36-139	7	20	
1,3-Dichloropropane	ug/L	ND	50	50	39.0	40.8	78	82	54-137	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	34.5	36.6	69	73	34-134	6	20	
1-Methylnaphthalene	ug/L	ND	50	50	35.3	41.4	71	83	32-150	16	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	26.1	29.7	52	59	20-142	13	20	
2-Butanone (MEK)	ug/L	ND	250	250	167	174	67	69	44-142	4	20	
2-Chlorotoluene	ug/L	ND	50	50	38.3	42.3	77	85	36-143	10	20	
2-Hexanone	ug/L	ND	250	250	185	198	74	79	43-150	7	20	
2-Methylnaphthalene	ug/L	ND	50	50	28.5	32.8	57	66	27-148	14	20	
4-Chlorotoluene	ug/L	ND	50	50	38.0	41.0	76	82	34-143	8	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	171	183	69	73	46-143	7	20	
Acetone	ug/L	ND	250	250	216	203	76	71	33-150	6	20	
Acrolein	ug/L	ND	1000	1000	817	837	82	84	32-200	2	20	
Acrylonitrile	ug/L	ND	200	200	147	155	74	77	47-143	5	20	
Benzene	ug/L	ND	50	50	37.1	40.4	73	80	51-140	9	20	
Bromobenzene	ug/L	ND	50	50	36.5	39.1	73	78	41-134	7	20	
Bromochloromethane	ug/L	ND	50	50	36.6	34.7	73	69	53-148	5	20	
Bromodichloromethane	ug/L	ND	50	50	35.0	37.7	70	75	46-137	7	20	
Bromoform	ug/L	ND	50	50	29.1	30.6	58	61	36-127	5	20	
Bromomethane	ug/L	ND	50	50	33.6	23.7	67	47	10-188	35	20	R1
Carbon disulfide	ug/L	ND	50	50	35.2	38.5	70	77	35-148	9	20	
Carbon tetrachloride	ug/L	ND	50	50	36.0	40.8	72	82	45-151	13	20	
Chlorobenzene	ug/L	ND	50	50	36.5	39.4	73	79	45-138	8	20	
Chloroethane	ug/L	ND	50	50	40.3	39.3	81	79	33-164	3	20	
Chloroform	ug/L	ND	50	50	37.2	41.1	74	82	50-135	10	20	
Chloromethane	ug/L	ND	50	50	30.4	31.2	61	62	38-146	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.1	40.2	74	80	43-144	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	33.5	35.5	67	71	42-136	6	20	
Dibromochloromethane	ug/L	ND	50	50	33.1	35.8	66	72	45-136	8	20	
Dibromomethane	ug/L	ND	50	50	36.4	39.1	73	78	51-139	7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	47.4	48.5	95	97	29-174	2	20	
Ethyl methacrylate	ug/L	ND	200	200	143	158	71	79	44-150	10	20	
Ethylbenzene	ug/L	ND	50	50	40.1	42.3	72	77	36-146	5	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	32.2	39.9	64	80	14-150	21	20	R1
Iodomethane	ug/L	ND	100	100	50.7	38.6	49	37	28-153	27	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	39.0	42.5	78	85	43-159	9	20	
m&p-Xylene	ug/L	ND	100	100	83.6	87.4	81	85	35-146	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	32.6	36.3	65	73	43-146	11	20	
Methylene Chloride	ug/L	ND	50	50	38.1	41.8	76	84	48-140	9	20	
n-Butylbenzene	ug/L	ND	50	50	36.3	40.2	73	80	16-152	10	20	
n-Hexane	ug/L	ND	50	50	33.3	38.4	67	77	40-144	14	20	
n-Propylbenzene	ug/L	ND	50	50	41.6	45.8	82	91	28-157	10	20	
Naphthalene	ug/L	ND	50	50	34.1	37.9	68	76	38-141	11	20	
p-Isopropyltoluene	ug/L	ND	50	50	38.5	41.9	77	84	21-151	8	20	
sec-Butylbenzene	ug/L	ND	50	50	38.1	42.5	76	85	27-165	11	20	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713803 1713804

Parameter	Units	50163373002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Styrene	ug/L	ND	50	50	38.1	40.4	76	81	31-148	6	20	
tert-Butylbenzene	ug/L	ND	50	50	32.1	35.3	64	71	24-131	9	20	
Tetrachloroethene	ug/L	ND	50	50	32.5	35.6	65	71	38-139	9	20	
Toluene	ug/L	ND	50	50	39.6	42.7	75	81	44-140	7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	36.8	39.4	74	79	50-139	7	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	33.5	35.7	67	71	37-138	6	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	116	124	58	62	10-157	7	20	
Trichloroethene	ug/L	ND	50	50	38.1	40.9	74	79	44-146	7	20	
Trichlorofluoromethane	ug/L	ND	50	50	46.5	50.0	93	100	41-164	7	20	
Vinyl acetate	ug/L	ND	200	200	83.5	90.6	42	45	15-146	8	20	
Vinyl chloride	ug/L	ND	50	50	42.7	44.8	85	90	43-166	5	20	
Xylene (Total)	ug/L	ND	150	150	125	131	83	87	35-146	5	20	
4-Bromofluorobenzene (S)	%.						105	101	79-116			
Dibromofluoromethane (S)	%.						98	99	84-118			
Toluene-d8 (S)	%.						101	99	86-110			

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

QC Batch: 371435 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50163373001

METHOD BLANK: 1714601 | Matrix: Water
Associated Lab Samples: 50163373001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
1,1-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichloroethane	ug/L	ND	5.0	01/26/17 01:50	
1,2-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1,3-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
1-Methylnaphthalene	ug/L	ND	5.0	01/26/17 01:50	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/26/17 01:50	
2-Butanone (MEK)	ug/L	ND	25.0	01/26/17 01:50	
2-Chlorotoluene	ug/L	ND	5.0	01/26/17 01:50	
2-Hexanone	ug/L	ND	25.0	01/26/17 01:50	
2-Methylnaphthalene	ug/L	ND	10.0	01/26/17 01:50	
4-Chlorotoluene	ug/L	ND	5.0	01/26/17 01:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/26/17 01:50	
Acetone	ug/L	ND	100	01/26/17 01:50	
Acrolein	ug/L	ND	50.0	01/26/17 01:50	
Acrylonitrile	ug/L	ND	100	01/26/17 01:50	
Benzene	ug/L	ND	5.0	01/26/17 01:50	
Bromobenzene	ug/L	ND	5.0	01/26/17 01:50	
Bromochloromethane	ug/L	ND	5.0	01/26/17 01:50	
Bromodichloromethane	ug/L	ND	5.0	01/26/17 01:50	
Bromoform	ug/L	ND	5.0	01/26/17 01:50	
Bromomethane	ug/L	ND	5.0	01/26/17 01:50	
Carbon disulfide	ug/L	ND	10.0	01/26/17 01:50	
Carbon tetrachloride	ug/L	ND	5.0	01/26/17 01:50	
Chlorobenzene	ug/L	ND	5.0	01/26/17 01:50	
Chloroethane	ug/L	ND	5.0	01/26/17 01:50	
Chloroform	ug/L	ND	5.0	01/26/17 01:50	

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QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

METHOD BLANK: 1714601 Matrix: Water
Associated Lab Samples: 50163373001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/26/17 01:50	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
Dibromochloromethane	ug/L	ND	5.0	01/26/17 01:50	
Dibromomethane	ug/L	ND	5.0	01/26/17 01:50	
Dichlorodifluoromethane	ug/L	ND	5.0	01/26/17 01:50	
Ethyl methacrylate	ug/L	ND	100	01/26/17 01:50	
Ethylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/26/17 01:50	
Iodomethane	ug/L	ND	10.0	01/26/17 01:50	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/26/17 01:50	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/26/17 01:50	
Methylene Chloride	ug/L	ND	5.0	01/26/17 01:50	
n-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
n-Hexane	ug/L	ND	5.0	01/26/17 01:50	
n-Propylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Naphthalene	ug/L	ND	1.7	01/26/17 01:50	
p-Isopropyltoluene	ug/L	ND	5.0	01/26/17 01:50	
sec-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Styrene	ug/L	ND	5.0	01/26/17 01:50	
tert-Butylbenzene	ug/L	ND	5.0	01/26/17 01:50	
Tetrachloroethene	ug/L	ND	5.0	01/26/17 01:50	
Toluene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/26/17 01:50	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/26/17 01:50	
Trichloroethene	ug/L	ND	5.0	01/26/17 01:50	
Trichlorofluoromethane	ug/L	ND	5.0	01/26/17 01:50	
Vinyl acetate	ug/L	ND	50.0	01/26/17 01:50	
Vinyl chloride	ug/L	ND	2.0	01/26/17 01:50	
Xylene (Total)	ug/L	ND	10.0	01/26/17 01:50	
4-Bromofluorobenzene (S)	%.	102	79-116	01/26/17 01:50	
Dibromofluoromethane (S)	%.	101	84-118	01/26/17 01:50	
Toluene-d8 (S)	%.	99	86-110	01/26/17 01:50	

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	74-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	72-124	
1,1,2-Trichloroethane	ug/L	50	47.5	95	75-125	
1,1-Dichloroethane	ug/L	50	45.2	90	70-120	
1,1-Dichloroethene	ug/L	50	43.1	86	69-127	

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(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	48.7	97	81-129	
1,2,3-Trichlorobenzene	ug/L	50	48.3	97	71-130	
1,2,3-Trichloropropane	ug/L	50	51.6	103	77-127	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	66-126	
1,2,4-Trimethylbenzene	ug/L	50	50.2	100	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	76-125	
1,2-Dichlorobenzene	ug/L	50	48.9	98	77-122	
1,2-Dichloroethane	ug/L	50	47.7	95	70-123	
1,2-Dichloropropane	ug/L	50	45.7	91	77-124	
1,3,5-Trimethylbenzene	ug/L	50	50.6	101	75-124	
1,3-Dichlorobenzene	ug/L	50	48.1	96	76-124	
1,3-Dichloropropane	ug/L	50	49.4	99	77-123	
1,4-Dichlorobenzene	ug/L	50	45.2	90	75-117	
1-Methylnaphthalene	ug/L	50	49.1	98	55-151	N2
2,2-Dichloropropane	ug/L	50	45.0	90	44-147	
2-Butanone (MEK)	ug/L	250	222	89	60-135	
2-Chlorotoluene	ug/L	50	50.3	101	75-124	
2-Hexanone	ug/L	250	240	96	65-139	
2-Methylnaphthalene	ug/L	50	40.0	80	58-148	
4-Chlorotoluene	ug/L	50	49.5	99	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	221	88	66-134	
Acetone	ug/L	250	235	94	47-144	
Acrolein	ug/L	1000	1240	124	31-200	
Acrylonitrile	ug/L	200	181	91	64-133	
Benzene	ug/L	50	45.9	92	76-122	
Bromobenzene	ug/L	50	47.1	94	75-117	
Bromochloromethane	ug/L	50	46.6	93	74-134	
Bromodichloromethane	ug/L	50	45.7	91	71-124	
Bromoform	ug/L	50	39.7	79	60-125	
Bromomethane	ug/L	50	42.7	85	23-194	
Carbon disulfide	ug/L	50	41.0	82	63-130	
Carbon tetrachloride	ug/L	50	46.5	93	73-133	
Chlorobenzene	ug/L	50	46.9	94	76-118	
Chloroethane	ug/L	50	46.1	92	50-147	
Chloroform	ug/L	50	47.5	95	70-119	
Chloromethane	ug/L	50	35.9	72	52-136	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	74-120	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	71-134	
Dibromochloromethane	ug/L	50	44.3	89	73-127	
Dibromomethane	ug/L	50	47.1	94	75-124	
Dichlorodifluoromethane	ug/L	50	52.6	105	39-166	
Ethyl methacrylate	ug/L	200	191	95	73-136	
Ethylbenzene	ug/L	50	48.4	97	75-123	
Hexachloro-1,3-butadiene	ug/L	50	48.6	97	70-125	
Iodomethane	ug/L	100	75.6	76	56-142	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	84-134	
Methyl-tert-butyl ether	ug/L	50	42.9	86	65-131	

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(317)228-3100

QUALITY CONTROL DATA

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

LABORATORY CONTROL SAMPLE: 1714602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	46.6	93	66-130	
n-Butylbenzene	ug/L	50	49.9	100	70-127	
n-Hexane	ug/L	50	44.1	88	64-131	
n-Propylbenzene	ug/L	50	55.0	110	78-131	
Naphthalene	ug/L	50	45.4	91	65-134	
p-Isopropyltoluene	ug/L	50	50.7	101	75-124	
sec-Butylbenzene	ug/L	50	51.3	103	83-135	
Styrene	ug/L	50	49.7	99	78-128	
tert-Butylbenzene	ug/L	50	42.4	85	62-114	
Tetrachloroethene	ug/L	50	41.2	82	69-119	
Toluene	ug/L	50	47.8	96	74-122	
trans-1,2-Dichloroethene	ug/L	50	45.0	90	72-122	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	171	86	39-153	
Trichloroethene	ug/L	50	46.0	92	75-123	
Trichlorofluoromethane	ug/L	50	55.1	110	58-148	
Vinyl acetate	ug/L	200	169	84	67-154	
Vinyl chloride	ug/L	50	50.1	100	61-147	
Xylene (Total)	ug/L	150	147	98	75-127	
4-Bromofluorobenzene (S)	%.			105	79-116	
Dibromofluoromethane (S)	%.			101	84-118	
Toluene-d8 (S)	%.			101	86-110	

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QUALIFIERS

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quick Shop-S&P Petro
Pace Project No.: 50163373

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50163373001	**MW-1**	EPA 3010	370859	EPA 6010	371451
50163373002	**MW-2**	EPA 3010	370859	EPA 6010	371451
50163373003	**MW-3**	EPA 3010	370859	EPA 6010	371451
50163373004	**FD-1**	EPA 3010	370859	EPA 6010	371451
50163373001	**MW-1**	EPA 8260	371435		
50163373002	**MW-2**	EPA 8260	371239		
50163373003	**MW-3**	EPA 8260	371239		
50163373004	**FD-1**	EPA 8260	371239		
50163373005	**TB-1**	EPA 8260	371236		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2159085

Section A Required Client Information:

Company: IWM Consulting Group
Address: 7428 Rockville Rd
Indianapolis, IN 46214
Email To: bgentry@iwmconsult.com
Phone: 347-1111 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Brad Gentry
Copy To:
Purchase Order No.:
Project Name: Quick Shop - S+P Petro
Project Number: IN17002

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Ken Hunt
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER RCG

Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			1/20/17	1130		4		1		3					✓	✓		001
2	MW-2 (ms/msd)						1150		10		3		7					✓	✓		002
3	MW-3						1230		4		1		3					✓	✓		003
4	FD-1						—		4		1		3					✓	✓		004
5	TB-1 trip blank					1/11/17	—											✓			005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

50163573

SAB 1/23/17

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
report napthalenes for VOCs	IWM	1/20/17	16:55	[illegible]	1/20/17	16:55	0.7	Y	N	Y
level IV QA/QC										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christopher D. Schoo
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 01/20/17

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Twn Consult. Project # 50163373

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer 1 2 3 4 5 6 A B C D E F **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.7/0.7 **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Initial/Corrected)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 1-20-17 LE

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No	15
Trip Blank Custody Seals Present	☑Yes ☐No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hurd **Date:** 1/21/17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: IWM

COC PAGE 1 of 1
COC ID# 2159085

Project # 50163373

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R (Bulk Kit, SBS DI)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U					Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3								1													WT	✓		
2 LB37	7								3													WT	✓		
3	3								1													WT	✓		
4	3								1													WT	✓		
5	1		(Trip	blank)																					
6																									
7																									
8																									
9																									
10																									
11																									
12																									

37 of 1733

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1713790	1713790BLANK	98	95	100
1713791	1713791LCS	105	98	100
50163373005	TB-1	97	94	100

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-2
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1713801	1713801BLANK	98	96	101
1713802	1713802LCS	104	101	101
1713803	1713803MS	105	98	101
1713804	1713804MSD	101	99	99
50163373002	MW-2	101	95	101
50163373003	MW-3	103	97	101
50163373004	FD-1	103	96	100

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-3
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1714601	1714601BLANK	102	101	99
1714602	1714602LCS	105	101	101
50163373001	MW-1	100	98	99

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1713791LCS

Date Extracted: 01/24/2017

Date Analyzed (1): 01/24/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012417.B\A02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	250	221	88	47-144
Acrolein	1000	1250	125	31-200
Acrylonitrile	200	177	89	64-133
Benzene	50.0	44.7	89	76-122
Bromobenzene	50.0	44.7	89	75-117
Bromochloromethane	50.0	45.3	91	74-134
Bromodichloromethane	50.0	43.4	87	71-124
Bromoform	50.0	38.9	78	60-125
Bromomethane	50.0	52.8	106	23-194
2-Butanone (MEK)	250	213	85	60-135
n-Butylbenzene	50.0	48.4	97	70-127
sec-Butylbenzene	50.0	48.9	98	83-135
tert-Butylbenzene	50.0	41.0	82	62-114
Carbon disulfide	50.0	42.3	85	63-130
Carbon tetrachloride	50.0	44.1	88	73-133
Chlorobenzene	50.0	44.8	90	76-118
Chloroethane	50.0	48.7	97	50-147
Chloroform	50.0	46.5	93	70-119
Chloromethane	50.0	44.1	88	52-136
2-Chlorotoluene	50.0	48.7	97	75-124
4-Chlorotoluene	50.0	48.7	97	75-124
Dibromochloromethane	50.0	42.7	85	73-127
1,2-Dibromoethane (EDB)	50.0	46.1	92	76-125
Dibromomethane	50.0	44.8	90	75-124
1,2-Dichlorobenzene	50.0	46.6	93	77-122
1,3-Dichlorobenzene	50.0	46.2	92	76-124
1,4-Dichlorobenzene	50.0	43.7	87	75-117
trans-1,4-Dichloro-2-butene	200	167	83	39-153
Dichlorodifluoromethane	50.0	56.8	114	39-166
1,1-Dichloroethane	50.0	43.7	87	70-120
1,2-Dichloroethane	50.0	44.6	89	70-123
1,1-Dichloroethene	50.0	43.8	88	69-127
cis-1,2-Dichloroethene	50.0	45.5	91	74-120
trans-1,2-Dichloroethene	50.0	44.8	90	72-122
1,2-Dichloropropane	50.0	43.5	87	77-124
1,3-Dichloropropane	50.0	47.6	95	77-123
2,2-Dichloropropane	50.0	44.9	90	44-147
1,1-Dichloropropene	50.0	47.4	95	81-129
cis-1,3-Dichloropropene	50.0	44.8	90	71-134
trans-1,3-Dichloropropene	50.0	44.5	89	66-135
Ethylbenzene	50.0	46.7	93	75-123
Ethyl methacrylate	200	180	90	73-136
Hexachloro-1,3-butadiene	50.0	47.4	95	70-125
n-Hexane	50.0	43.9	88	64-131
2-Hexanone	250	224	90	65-139
Iodomethane	100	89.3	89	56-142
Isopropylbenzene (Cumene)	50.0	49.1	98	84-134

MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1713791LCS

Date Extracted: 01/24/2017

Date Analyzed (1): 01/24/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012417.B\A02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
p-Isopropyltoluene	50.0	49.2	98	75-124
Methylene Chloride	50.0	47.4	95	66-130
1-Methylnaphthalene	50.0	46.7	93	55-151
2-Methylnaphthalene	50.0	38.2	76	58-148
4-Methyl-2-pentanone (MIBK)	250	217	87	66-134
Methyl-tert-butyl ether	50.0	41.6	83	65-131
Naphthalene	50.0	44.4	89	65-134
n-Propylbenzene	50.0	53.8	108	78-131
Styrene	50.0	46.9	94	78-128
1,1,1,2-Tetrachloroethane	50.0	45.4	91	74-130
1,1,2,2-Tetrachloroethane	50.0	49.1	98	72-124
Tetrachloroethene	50.0	40.1	80	69-119
Toluene	50.0	46.7	93	74-122
1,2,3-Trichlorobenzene	50.0	47.5	95	71-130
1,2,4-Trichlorobenzene	50.0	46.5	93	66-126
1,1,1-Trichloroethane	50.0	42.2	84	72-123
1,1,2-Trichloroethane	50.0	45.0	90	75-125
Trichloroethene	50.0	45.3	91	75-123
Trichlorofluoromethane	50.0	55.5	111	58-148
1,2,3-Trichloropropane	50.0	49.6	99	77-127
1,2,4-Trimethylbenzene	50.0	47.7	95	73-125
1,3,5-Trimethylbenzene	50.0	47.7	95	75-124
Vinyl acetate	200	167	84	67-154
Vinyl chloride	50.0	52.0	104	61-147
Xylene (Total)	150	141	94	75-127

Spike Recovery: 0 out of 72 outside limits.

02/01/2017 7:31

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1713802LCS

Date Extracted: 01/25/2017

Date Analyzed (1): 01/25/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012417.B\C02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	250	246	98	47-144
Acrolein	1000	1290	129	31-200
Acrylonitrile	200	187	94	64-133
Benzene	50.0	47.8	96	76-122
Bromobenzene	50.0	50.8	102	75-117
Bromochloromethane	50.0	50.0	100	74-134
Bromodichloromethane	50.0	47.7	95	71-124
Bromoform	50.0	41.2	82	60-125
Bromomethane	50.0	28.7	57	23-194
2-Butanone (MEK)	250	227	91	60-135
n-Butylbenzene	50.0	50.9	102	70-127
sec-Butylbenzene	50.0	52.9	106	83-135
tert-Butylbenzene	50.0	43.4	87	62-114
Carbon disulfide	50.0	45.2	90	63-130
Carbon tetrachloride	50.0	49.0	98	73-133
Chlorobenzene	50.0	49.6	99	76-118
Chloroethane	50.0	51.7	103	50-147
Chloroform	50.0	50.6	101	70-119
Chloromethane	50.0	38.0	76	52-136
2-Chlorotoluene	50.0	52.2	104	75-124
4-Chlorotoluene	50.0	51.5	103	75-124
Dibromochloromethane	50.0	47.4	95	73-127
1,2-Dibromoethane (EDB)	50.0	50.6	101	76-125
Dibromomethane	50.0	49.3	99	75-124
1,2-Dichlorobenzene	50.0	49.6	99	77-122
1,3-Dichlorobenzene	50.0	48.6	97	76-124
1,4-Dichlorobenzene	50.0	46.8	94	75-117
trans-1,4-Dichloro-2-butene	200	162	81	39-153
Dichlorodifluoromethane	50.0	60.3	121	39-166
1,1-Dichloroethane	50.0	48.0	96	70-120
1,2-Dichloroethane	50.0	48.4	97	70-123
1,1-Dichloroethene	50.0	46.7	93	69-127
cis-1,2-Dichloroethene	50.0	49.3	99	74-120
trans-1,2-Dichloroethene	50.0	48.0	96	72-122
1,2-Dichloropropane	50.0	49.2	98	77-124
1,3-Dichloropropane	50.0	53.2	106	77-123
2,2-Dichloropropane	50.0	36.7	73	44-147
1,1-Dichloropropene	50.0	50.2	100	81-129
cis-1,3-Dichloropropene	50.0	46.6	93	71-134
trans-1,3-Dichloropropene	50.0	46.8	94	66-135
Ethylbenzene	50.0	50.7	101	75-123
Ethyl methacrylate	200	201	101	73-136
Hexachloro-1,3-butadiene	50.0	48.6	97	70-125
n-Hexane	50.0	42.4	85	64-131
2-Hexanone	250	251	100	65-139
Iodomethane	100	84.2	84	56-142
Isopropylbenzene (Cumene)	50.0	53.6	107	84-134

MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1713802LCS

Date Extracted: 01/25/2017

Date Analyzed (1): 01/25/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012417.B\C02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
p-Isopropyltoluene	50.0	53.2	106	75-124
Methylene Chloride	50.0	50.7	101	66-130
1-Methylnaphthalene	50.0	50.0	100	55-151
2-Methylnaphthalene	50.0	40.1	80	58-148
4-Methyl-2-pentanone (MIBK)	250	230	92	66-134
Methyl-tert-butyl ether	50.0	45.2	90	65-131
Naphthalene	50.0	46.8	94	65-134
n-Propylbenzene	50.0	56.9	114	78-131
Styrene	50.0	52.2	104	78-128
1,1,1,2-Tetrachloroethane	50.0	49.8	100	74-130
1,1,2,2-Tetrachloroethane	50.0	53.0	106	72-124
Tetrachloroethene	50.0	44.1	88	69-119
Toluene	50.0	50.8	102	74-122
1,2,3-Trichlorobenzene	50.0	50.4	101	71-130
1,2,4-Trichlorobenzene	50.0	47.8	96	66-126
1,1,1-Trichloroethane	50.0	47.5	95	72-123
1,1,2-Trichloroethane	50.0	50.9	102	75-125
Trichloroethene	50.0	50.3	101	75-123
Trichlorofluoromethane	50.0	58.5	117	58-148
1,2,3-Trichloropropane	50.0	53.2	106	77-127
1,2,4-Trimethylbenzene	50.0	51.3	103	73-125
1,3,5-Trimethylbenzene	50.0	52.4	105	75-124
Vinyl acetate	200	179	89	67-154
Vinyl chloride	50.0	54.8	110	61-147
Xylene (Total)	150	154	103	75-127
m&p-Xylene	100	102	102	75-127

Spike Recovery: 0 out of 73 outside limits.

02/01/2017 7:31

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1714602LCS

Date Extracted: 01/26/2017

Date Analyzed (1): 01/26/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012517.B\A02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	250	235	94	47-144
Acrolein	1000	1240	124	31-200
Acrylonitrile	200	181	91	64-133
Benzene	50.0	45.9	92	76-122
Bromobenzene	50.0	47.1	94	75-117
Bromochloromethane	50.0	46.6	93	74-134
Bromodichloromethane	50.0	45.7	91	71-124
Bromoform	50.0	39.7	79	60-125
Bromomethane	50.0	42.7	85	23-194
2-Butanone (MEK)	250	222	89	60-135
n-Butylbenzene	50.0	49.9	100	70-127
sec-Butylbenzene	50.0	51.3	103	83-135
tert-Butylbenzene	50.0	42.4	85	62-114
Carbon disulfide	50.0	41.0	82	63-130
Carbon tetrachloride	50.0	46.5	93	73-133
Chlorobenzene	50.0	46.9	94	76-118
Chloroethane	50.0	46.1	92	50-147
Chloroform	50.0	47.5	95	70-119
Chloromethane	50.0	35.9	72	52-136
2-Chlorotoluene	50.0	50.3	101	75-124
4-Chlorotoluene	50.0	49.5	99	75-124
Dibromochloromethane	50.0	44.3	89	73-127
1,2-Dibromoethane (EDB)	50.0	48.3	97	76-125
Dibromomethane	50.0	47.1	94	75-124
1,2-Dichlorobenzene	50.0	48.9	98	77-122
1,3-Dichlorobenzene	50.0	48.1	96	76-124
1,4-Dichlorobenzene	50.0	45.2	90	75-117
trans-1,4-Dichloro-2-butene	200	171	86	39-153
Dichlorodifluoromethane	50.0	52.6	105	39-166
1,1-Dichloroethane	50.0	45.2	90	70-120
1,2-Dichloroethane	50.0	47.7	95	70-123
1,1-Dichloroethene	50.0	43.1	86	69-127
cis-1,2-Dichloroethene	50.0	45.8	92	74-120
trans-1,2-Dichloroethene	50.0	45.0	90	72-122
1,2-Dichloropropane	50.0	45.7	91	77-124
1,3-Dichloropropane	50.0	49.4	99	77-123
2,2-Dichloropropane	50.0	45.0	90	44-147
1,1-Dichloropropene	50.0	48.7	97	81-129
cis-1,3-Dichloropropene	50.0	45.9	92	71-134
trans-1,3-Dichloropropene	50.0	45.6	91	66-135
Ethylbenzene	50.0	48.4	97	75-123
Ethyl methacrylate	200	191	95	73-136
Hexachloro-1,3-butadiene	50.0	48.6	97	70-125
n-Hexane	50.0	44.1	88	64-131
2-Hexanone	250	240	96	65-139
Iodomethane	100	75.6	76	56-142
Isopropylbenzene (Cumene)	50.0	50.2	100	84-134

MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 1714602LCS

Date Extracted: 01/26/2017

Date Analyzed (1): 01/26/2017

Instrument: 50MV2A

LCS Lot No: 140393

Lab File ID: A012517.B\A02LCS.D

SDG No.: 50163373

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
p-Isopropyltoluene	50.0	50.7	101	75-124
Methylene Chloride	50.0	46.6	93	66-130
1-Methylnaphthalene	50.0	49.1	98	55-151
2-Methylnaphthalene	50.0	40.0	80	58-148
4-Methyl-2-pentanone (MIBK)	250	221	88	66-134
Methyl-tert-butyl ether	50.0	42.9	86	65-131
Naphthalene	50.0	45.4	91	65-134
n-Propylbenzene	50.0	55.0	110	78-131
Styrene	50.0	49.7	99	78-128
1,1,1,2-Tetrachloroethane	50.0	47.0	94	74-130
1,1,2,2-Tetrachloroethane	50.0	51.7	103	72-124
Tetrachloroethene	50.0	41.2	82	69-119
Toluene	50.0	47.8	96	74-122
1,2,3-Trichlorobenzene	50.0	48.3	97	71-130
1,2,4-Trichlorobenzene	50.0	47.1	94	66-126
1,1,1-Trichloroethane	50.0	44.4	89	72-123
1,1,2-Trichloroethane	50.0	47.5	95	75-125
Trichloroethene	50.0	46.0	92	75-123
Trichlorofluoromethane	50.0	55.1	110	58-148
1,2,3-Trichloropropane	50.0	51.6	103	77-127
1,2,4-Trimethylbenzene	50.0	50.2	100	73-125
1,3,5-Trimethylbenzene	50.0	50.6	101	75-124
Vinyl acetate	200	169	84	67-154
Vinyl chloride	50.0	50.1	100	61-147
Xylene (Total)	150	147	98	75-127

Spike Recovery: 0 out of 72 outside limits.

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MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Date Extracted: 01/25/2017

Instrument: 50MV2A

Parent Sample ID: 50163372003

Matrix Spike - Sample No: 1713792MS

Date Analyzed (1): 01/25/2017

Lab File ID: A012417.B\A10.D

SDG No.: 50163373

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	ND	32.8	66	44-142
1,1,1-Trichloroethane	50.0	ND	31.4	63	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	36.5	73	49-138
1,1,2-Trichloroethane	50.0	ND	32.4	65	51-138
1,1-Dichloroethane	50.0	ND	31.5	63	48-137
1,1-Dichloroethene	50.0	ND	33.2	66	51-144
1,1-Dichloropropene	50.0	ND	35.8	72	54-150
1,2,3-Trichlorobenzene	50.0	ND	34.9	70	32-140
1,2,3-Trichloropropane	50.0	ND	35.6	71	51-139
1,2,4-Trichlorobenzene	50.0	ND	34.0	68	27-134
1,2,4-Trimethylbenzene	50.0	ND	35.2	70	32-143
1,2-Dibromoethane (EDB)	50.0	ND	33.1	66	52-134
1,2-Dichlorobenzene	50.0	ND	34.7	69	38-138
1,2-Dichloroethane	50.0	ND	32.7	65	44-144
1,2-Dichloropropane	50.0	ND	31.8	64	56-138
1,3,5-Trimethylbenzene	50.0	ND	35.6	71	28-146
1,3-Dichlorobenzene	50.0	ND	34.8	70	36-139
1,3-Dichloropropane	50.0	ND	34.9	70	54-137
1,4-Dichlorobenzene	50.0	ND	32.4	65	34-134
1-Methylnaphthalene	50.0	ND	33.2	66	32-150
2,2-Dichloropropane	50.0	ND	31.9	64	20-142
2-Butanone (MEK)	250	ND	147	59	44-142
2-Chlorotoluene	50.0	ND	36.7	73	36-143
2-Hexanone	250	ND	163	65	43-150
2-Methylnaphthalene	50.0	ND	26.6	53	27-148
4-Chlorotoluene	50.0	ND	36.1	72	34-143
4-Methyl-2-pentanone (MIBK)	250	ND	152	61	46-143
Acetone	250	ND	160	64	33-150
Acrolein	1000	ND	855	86	32-200
Acrylonitrile	200	ND	130	65	47-143
Benzene	50.0	ND	32.6	65	51-140
Bromobenzene	50.0	ND	32.7	65	41-134
Bromochloromethane	50.0	ND	33.7	67	53-148
Bromodichloromethane	50.0	ND	31.2	62	46-137
Bromoform	50.0	ND	26.3	53	36-127
Bromomethane	50.0	ND	21.9	44	10-188
Carbon disulfide	50.0	ND	31.9	64	35-148
Carbon tetrachloride	50.0	ND	33.1	66	45-151
Chlorobenzene	50.0	ND	33.5	67	45-138
Chloroethane	50.0	ND	36.8	74	33-164
Chloroform	50.0	ND	33.9	68	50-135
Chloromethane	50.0	ND	30.8	62	38-146
Dibromochloromethane	50.0	ND	30.9	62	45-136
Dibromomethane	50.0	ND	32.3	65	51-139
Dichlorodifluoromethane	50.0	ND	44.4	89	29-174
Ethyl methacrylate	200	ND	131	65	44-150
Ethylbenzene	50.0	ND	34.1	68	36-146

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 1713792MS

Date Extracted: 01/25/2017

Date Analyzed (1): 01/25/2017

Instrument: 50MV2A

Lab File ID: A012417.B\A10.D

Parent Sample ID: 50163372003

SDG No.: 50163373

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Hexachloro-1,3-butadiene	50.0	ND	37.0	74	14-150
Iodomethane	100	ND	46.5	47	28-153
Isopropylbenzene (Cumene)	50.0	ND	36.2	72	43-159
Methyl-tert-butyl ether	50.0	ND	30.3	61	43-146
Methylene Chloride	50.0	ND	34.4	69	48-140
Naphthalene	50.0	ND	31.3	63	38-141
Styrene	50.0	ND	34.7	69	31-148
Tetrachloroethene	50.0	ND	30.9	62	38-139
Toluene	50.0	ND	34.1	68	44-140
Trichloroethene	50.0	ND	45.0	90	44-146
Trichlorofluoromethane	50.0	ND	43.5	87	41-164
Vinyl acetate	200	ND	110	55	15-146
Vinyl chloride	50.0	ND	39.3	79	43-166
Xylene (Total)	150	ND	103	69	35-146
cis-1,2-Dichloroethene	50.0	ND	37.1	74	43-144
cis-1,3-Dichloropropene	50.0	ND	31.3	63	42-136
n-Butylbenzene	50.0	ND	36.8	74	16-152
n-Hexane	50.0	ND	34.6	69	40-144
n-Propylbenzene	50.0	ND	40.5	81	28-157
p-Isopropyltoluene	50.0	ND	36.9	74	21-151
sec-Butylbenzene	50.0	ND	37.9	76	27-165
tert-Butylbenzene	50.0	ND	30.4	61	24-131
trans-1,2-Dichloroethene	50.0	ND	33.2	66	50-139
trans-1,3-Dichloropropene	50.0	ND	31.3	63	37-138
trans-1,4-Dichloro-2-butene	200	ND	113	57	10-157

Spike Recovery: 0 out of 72 outside limits.

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MSV - FORM III VOA-3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A

Matrix Spike Duplicate - Sample No: 1713793MSD

Lab File ID (2): A012417.B\A11.D

Date Analyzed (2): 01/25/2017

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	36.6	73	11	0-20	44-142
1,1,1-Trichloroethane	50.0	35.7	71	13	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	37.9	76	4	0-20	49-138
1,1,2-Trichloroethane	50.0	36.9	74	13	0-20	51-138
1,1-Dichloroethane	50.0	35.7	71	12	0-20	48-137
1,1-Dichloroethene	50.0	37.7	75	13	0-20	51-144
1,1-Dichloropropene	50.0	39.1	78	9	0-20	54-150
1,2,3-Trichlorobenzene	50.0	37.1	74	6	0-20	32-140
1,2,3-Trichloropropane	50.0	39.4	79	10	0-20	51-139
1,2,4-Trichlorobenzene	50.0	36.2	72	6	0-20	27-134
1,2,4-Trimethylbenzene	50.0	37.6	75	7	0-20	32-143
1,2-Dibromoethane (EDB)	50.0	36.9	74	11	0-20	52-134
1,2-Dichlorobenzene	50.0	36.7	73	6	0-20	38-138
1,2-Dichloroethane	50.0	36.1	72	10	0-20	44-144
1,2-Dichloropropane	50.0	36.5	73	14	0-20	56-138
1,3,5-Trimethylbenzene	50.0	38.0	76	7	0-20	28-146
1,3-Dichlorobenzene	50.0	35.6	71	2	0-20	36-139
1,3-Dichloropropane	50.0	39.3	79	12	0-20	54-137
1,4-Dichlorobenzene	50.0	34.1	68	5	0-20	34-134
1-Methylnaphthalene	50.0	36.7	73	10	0-20	32-150
2,2-Dichloropropane	50.0	35.0	70	9	0-20	20-142
2-Butanone (MEK)	250	163	65	11	0-20	44-142
2-Chlorotoluene	50.0	38.3	77	4	0-20	36-143
2-Hexanone	250	181	72	10	0-20	43-150
2-Methylnaphthalene	50.0	29.4	59	10	0-20	27-148
4-Chlorotoluene	50.0	38.4	77	6	0-20	34-143
4-Methyl-2-pentanone (MIBK)	250	169	68	11	0-20	46-143
Acetone	250	184	74	14	0-20	33-150
Acrolein	1000	964	96	12	0-20	32-200
Acrylonitrile	200	142	71	9	0-20	47-143
Benzene	50.0	36.8	74	12	0-20	51-140
Bromobenzene	50.0	36.8	74	12	0-20	41-134
Bromochloromethane	50.0	38.0	76	12	0-20	53-148
Bromodichloromethane	50.0	35.6	71	13	0-20	46-137
Bromoform	50.0	28.1	56	6	0-20	36-127
Bromomethane	50.0	32.7	65	40	0-20	10-188
Carbon disulfide	50.0	36.3	73	13	0-20	35-148
Carbon tetrachloride	50.0	37.2	74	12	0-20	45-151
Chlorobenzene	50.0	36.5	73	9	0-20	45-138
Chloroethane	50.0	41.4	83	12	0-20	33-164
Chloroform	50.0	37.4	75	10	0-20	50-135
Chloromethane	50.0	35.9	72	15	0-20	38-146
Dibromochloromethane	50.0	34.1	68	10	0-20	45-136
Dibromomethane	50.0	35.6	71	10	0-20	51-139
Dichlorodifluoromethane	50.0	49.0	98	10	0-20	29-174
Ethyl methacrylate	200	140	70	7	0-20	44-150
Ethylbenzene	50.0	38.4	77	12	0-20	36-146
Hexachloro-1,3-butadiene	50.0	39.7	79	7	0-20	14-150
Iodomethane	100	68.9	69	39	0-20	28-153

MSV - FORM III VOA-4

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A

Matrix Spike Duplicate - Sample No: 1713793MSD

Lab File ID (2): A012417.B\A11.D

Date Analyzed (2): 01/25/2017

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Isopropylbenzene (Cumene)	50.0	40.3	81	10	0-20	43-159
Methyl-tert-butyl ether	50.0	32.8	66	8	0-20	43-146
Methylene Chloride	50.0	39.1	78	13	0-20	48-140
Naphthalene	50.0	34.0	68	8	0-20	38-141
Styrene	50.0	37.1	74	7	0-20	31-148
Tetrachloroethene	50.0	34.0	68	10	0-20	38-139
Toluene	50.0	37.9	76	11	0-20	44-140
Trichloroethene	50.0	45.9	92	2	0-20	44-146
Trichlorofluoromethane	50.0	48.2	96	10	0-20	41-164
Vinyl acetate	200	120	60	9	0-20	15-146
Vinyl chloride	50.0	45.1	90	14	0-20	43-166
Xylene (Total)	150	113	76	9	0-20	35-146
cis-1,2-Dichloroethene	50.0	39.8	80	7	0-20	43-144
cis-1,3-Dichloropropene	50.0	35.2	70	12	0-20	42-136
n-Butylbenzene	50.0	39.0	78	6	0-20	16-152
n-Hexane	50.0	38.9	78	12	0-20	40-144
n-Propylbenzene	50.0	42.4	85	5	0-20	28-157
p-Isopropyltoluene	50.0	40.2	80	9	0-20	21-151
sec-Butylbenzene	50.0	39.9	80	5	0-20	27-165
tert-Butylbenzene	50.0	33.4	67	9	0-20	24-131
trans-1,2-Dichloroethene	50.0	37.3	75	12	0-20	50-139
trans-1,3-Dichloropropene	50.0	34.2	68	9	0-20	37-138
trans-1,4-Dichloro-2-butene	200	127	63	11	0-20	10-157

RPD: 2 out of 72 outside limits.

Spike Recovery: 0 out of 72 outside limits.

02/01/2017 7:31

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Date Extracted: 01/25/2017

Instrument: 50MV2A

Parent Sample ID: MW-2

Matrix Spike - Sample No: 1713803MS

Date Analyzed (1): 01/25/2017

Lab File ID: A012417.B\C08.D

SDG No.: 50163373

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	ND	34.7	69	44-142
1,1,1-Trichloroethane	50.0	ND	34.7	69	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	39.4	79	49-138
1,1,2-Trichloroethane	50.0	ND	35.6	71	51-138
1,1-Dichloroethane	50.0	ND	35.7	71	48-137
1,1-Dichloroethene	50.0	ND	36.8	74	51-144
1,1-Dichloropropene	50.0	ND	39.2	78	54-150
1,2,3-Trichlorobenzene	50.0	ND	34.7	69	32-140
1,2,3-Trichloropropane	50.0	ND	39.6	79	51-139
1,2,4-Trichlorobenzene	50.0	ND	33.3	67	27-134
1,2,4-Trimethylbenzene	50.0	ND	38.7	72	32-143
1,2-Dibromoethane (EDB)	50.0	ND	37.5	75	52-134
1,2-Dichlorobenzene	50.0	ND	36.7	73	38-138
1,2-Dichloroethane	50.0	ND	36.9	74	44-144
1,2-Dichloropropane	50.0	ND	36.3	73	56-138
1,3,5-Trimethylbenzene	50.0	ND	37.7	74	28-146
1,3-Dichlorobenzene	50.0	ND	35.9	72	36-139
1,3-Dichloropropane	50.0	ND	39.0	78	54-137
1,4-Dichlorobenzene	50.0	ND	34.5	69	34-134
1-Methylnaphthalene	50.0	ND	35.3	71	32-150
2,2-Dichloropropane	50.0	ND	26.1	52	20-142
2-Butanone (MEK)	250	ND	167	67	44-142
2-Chlorotoluene	50.0	ND	38.3	77	36-143
2-Hexanone	250	ND	185	74	43-150
2-Methylnaphthalene	50.0	ND	28.5	57	27-148
4-Chlorotoluene	50.0	ND	38.0	76	34-143
4-Methyl-2-pentanone (MIBK)	250	ND	171	69	46-143
Acetone	250	ND	216	76	33-150
Acrolein	1000	ND	817	82	32-200
Acrylonitrile	200	ND	147	74	47-143
Benzene	50.0	ND	37.1	73	51-140
Bromobenzene	50.0	ND	36.5	73	41-134
Bromochloromethane	50.0	ND	36.6	73	53-148
Bromodichloromethane	50.0	ND	35.0	70	46-137
Bromoform	50.0	ND	29.1	58	36-127
Bromomethane	50.0	ND	33.6	67	10-188
Carbon disulfide	50.0	ND	35.2	70	35-148
Carbon tetrachloride	50.0	ND	36.0	72	45-151
Chlorobenzene	50.0	ND	36.5	73	45-138
Chloroethane	50.0	ND	40.3	81	33-164
Chloroform	50.0	ND	37.2	74	50-135
Chloromethane	50.0	ND	30.4	61	38-146
Dibromochloromethane	50.0	ND	33.1	66	45-136
Dibromomethane	50.0	ND	36.4	73	51-139
Dichlorodifluoromethane	50.0	ND	47.4	95	29-174
Ethyl methacrylate	200	ND	143	71	44-150
Ethylbenzene	50.0	ND	40.1	72	36-146

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Date Extracted: 01/25/2017

Instrument: 50MV2A

Parent Sample ID: MW-2

Matrix Spike - Sample No: 1713803MS

Date Analyzed (1): 01/25/2017

Lab File ID: A012417.B\C08.D

SDG No.: 50163373

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Hexachloro-1,3-butadiene	50.0	ND	32.2	64	14-150
Iodomethane	100	ND	50.7	49	28-153
Isopropylbenzene (Cumene)	50.0	ND	39.0	78	43-159
Methyl-tert-butyl ether	50.0	ND	32.6	65	43-146
Methylene Chloride	50.0	ND	38.1	76	48-140
Naphthalene	50.0	ND	34.1	68	38-141
Styrene	50.0	ND	38.1	76	31-148
Tetrachloroethene	50.0	ND	32.5	65	38-139
Toluene	50.0	ND	39.6	75	44-140
Trichloroethene	50.0	ND	38.1	74	44-146
Trichlorofluoromethane	50.0	ND	46.5	93	41-164
Vinyl acetate	200	ND	83.5	42	15-146
Vinyl chloride	50.0	ND	42.7	85	43-166
Xylene (Total)	150	ND	125	83	35-146
cis-1,2-Dichloroethene	50.0	ND	37.1	74	43-144
cis-1,3-Dichloropropene	50.0	ND	33.5	67	42-136
m&p-Xylene	100	ND	83.6	81	35-146
n-Butylbenzene	50.0	ND	36.3	73	16-152
n-Hexane	50.0	ND	33.3	67	40-144
n-Propylbenzene	50.0	ND	41.6	82	28-157
p-Isopropyltoluene	50.0	ND	38.5	77	21-151
sec-Butylbenzene	50.0	ND	38.1	76	27-165
tert-Butylbenzene	50.0	ND	32.1	64	24-131
trans-1,2-Dichloroethene	50.0	ND	36.8	74	50-139
trans-1,3-Dichloropropene	50.0	ND	33.5	67	37-138
trans-1,4-Dichloro-2-butene	200	ND	116	58	10-157

Spike Recovery: 0 out of 73 outside limits.

02/01/2017 7:31

MSV - FORM III VOA-3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A

Matrix Spike Duplicate - Sample No: 1713804MSD

Lab File ID (2): A012417.B\C09.D

Date Analyzed (2): 01/25/2017

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	38.8	78	11	0-20	44-142
1,1,1-Trichloroethane	50.0	38.9	78	12	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	41.9	84	6	0-20	49-138
1,1,2-Trichloroethane	50.0	38.8	78	9	0-20	51-138
1,1-Dichloroethane	50.0	38.5	77	8	0-20	48-137
1,1-Dichloroethene	50.0	40.5	81	10	0-20	51-144
1,1-Dichloropropene	50.0	41.8	84	6	0-20	54-150
1,2,3-Trichlorobenzene	50.0	39.8	80	14	0-20	32-140
1,2,3-Trichloropropane	50.0	41.1	82	4	0-20	51-139
1,2,4-Trichlorobenzene	50.0	38.3	77	14	0-20	27-134
1,2,4-Trimethylbenzene	50.0	42.5	80	9	0-20	32-143
1,2-Dibromoethane (EDB)	50.0	39.4	79	5	0-20	52-134
1,2-Dichlorobenzene	50.0	39.2	78	7	0-20	38-138
1,2-Dichloroethane	50.0	39.7	79	7	0-20	44-144
1,2-Dichloropropane	50.0	38.9	78	7	0-20	56-138
1,3,5-Trimethylbenzene	50.0	42.5	83	12	0-20	28-146
1,3-Dichlorobenzene	50.0	38.4	77	7	0-20	36-139
1,3-Dichloropropane	50.0	40.8	82	5	0-20	54-137
1,4-Dichlorobenzene	50.0	36.6	73	6	0-20	34-134
1-Methylnaphthalene	50.0	41.4	83	16	0-20	32-150
2,2-Dichloropropane	50.0	29.7	59	13	0-20	20-142
2-Butanone (MEK)	250	174	69	4	0-20	44-142
2-Chlorotoluene	50.0	42.3	85	10	0-20	36-143
2-Hexanone	250	198	79	7	0-20	43-150
2-Methylnaphthalene	50.0	32.8	66	14	0-20	27-148
4-Chlorotoluene	50.0	41.0	82	8	0-20	34-143
4-Methyl-2-pentanone (MIBK)	250	183	73	7	0-20	46-143
Acetone	250	203	71	6	0-20	33-150
Acrolein	1000	837	84	2	0-20	32-200
Acrylonitrile	200	155	77	5	0-20	47-143
Benzene	50.0	40.4	80	9	0-20	51-140
Bromobenzene	50.0	39.1	78	7	0-20	41-134
Bromochloromethane	50.0	34.7	69	5	0-20	53-148
Bromodichloromethane	50.0	37.7	75	7	0-20	46-137
Bromoform	50.0	30.6	61	5	0-20	36-127
Bromomethane	50.0	23.7	47	35	0-20	10-188
Carbon disulfide	50.0	38.5	77	9	0-20	35-148
Carbon tetrachloride	50.0	40.8	82	13	0-20	45-151
Chlorobenzene	50.0	39.4	79	8	0-20	45-138
Chloroethane	50.0	39.3	79	3	0-20	33-164
Chloroform	50.0	41.1	82	10	0-20	50-135
Chloromethane	50.0	31.2	62	2	0-20	38-146
Dibromochloromethane	50.0	35.8	72	8	0-20	45-136
Dibromomethane	50.0	39.1	78	7	0-20	51-139
Dichlorodifluoromethane	50.0	48.5	97	2	0-20	29-174
Ethyl methacrylate	200	158	79	10	0-20	44-150
Ethylbenzene	50.0	42.3	77	5	0-20	36-146
Hexachloro-1,3-butadiene	50.0	39.9	80	21	0-20	14-150
Iodomethane	100	38.6	37	27	0-20	28-153

MSV - FORM III VOA-4

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A

Matrix Spike Duplicate - Sample No: 1713804MSD

Lab File ID (2): A012417.B\C09.D

Date Analyzed (2): 01/25/2017

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Isopropylbenzene (Cumene)	50.0	42.5	85	9	0-20	43-159
Methyl-tert-butyl ether	50.0	36.3	73	11	0-20	43-146
Methylene Chloride	50.0	41.8	84	9	0-20	48-140
Naphthalene	50.0	37.9	76	11	0-20	38-141
Styrene	50.0	40.4	81	6	0-20	31-148
Tetrachloroethene	50.0	35.6	71	9	0-20	38-139
Toluene	50.0	42.7	81	7	0-20	44-140
Trichloroethene	50.0	40.9	79	7	0-20	44-146
Trichlorofluoromethane	50.0	50.0	100	7	0-20	41-164
Vinyl acetate	200	90.6	45	8	0-20	15-146
Vinyl chloride	50.0	44.8	90	5	0-20	43-166
Xylene (Total)	150	131	87	5	0-20	35-146
cis-1,2-Dichloroethene	50.0	40.2	80	8	0-20	43-144
cis-1,3-Dichloropropene	50.0	35.5	71	6	0-20	42-136
m&p-Xylene	100	87.4	85	4	0-20	35-146
n-Butylbenzene	50.0	40.2	80	10	0-20	16-152
n-Hexane	50.0	38.4	77	14	0-20	40-144
n-Propylbenzene	50.0	45.8	91	10	0-20	28-157
p-Isopropyltoluene	50.0	41.9	84	8	0-20	21-151
sec-Butylbenzene	50.0	42.5	85	11	0-20	27-165
tert-Butylbenzene	50.0	35.3	71	9	0-20	24-131
trans-1,2-Dichloroethene	50.0	39.4	79	7	0-20	50-139
trans-1,3-Dichloropropene	50.0	35.7	71	6	0-20	37-138
trans-1,4-Dichloro-2-butene	200	124	62	7	0-20	10-157

RPD: 3 out of 73 outside limits.

Spike Recovery: 0 out of 73 outside limits.

02/01/2017 7:31

SAMPLE NO.

1713790BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A Matrix: Water Lab Sample ID: 1713790

Lab File ID: A012417.B\A04MB.D Date Analyzed: 01/25/2017 Time:00:52

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1713791LCS	1713791	A012417.B\A02LCS.D	01/24/2017 23:46
TB-1	50163373005	A012417.B\A06.D	01/25/2017 01:58

SAMPLE NO.

1713801BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A Matrix: Water Lab Sample ID: 1713801

Lab File ID: A012417.B\C04MB.D Date Analyzed: 01/25/2017 Time: 12:56

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1713802LCS	1713802	A012417.B\C02LCS.D	01/25/2017 11:50
MW-2	50163373002	A012417.B\C07.D	01/25/2017 16:28
1713803MS	1713803	A012417.B\C08.D	01/25/2017 17:01
1713804MSD	1713804	A012417.B\C09.D	01/25/2017 17:34
MW-3	50163373003	A012417.B\C10.D	01/25/2017 18:07
FD-1	50163373004	A012417.B\C11.D	01/25/2017 18:39

SAMPLE NO.

1714601BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50MV2A Matrix: Water Lab Sample ID: 1714601

Lab File ID: A012517.B\A04MB.D Date Analyzed: 01/26/2017 Time: 01:50

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1714602LCS	1714602	A012517.B\A02LCS.D	01/26/2017 00:44
MW-1	50163373001	A012517.B\A16.D	01/26/2017 08:25

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: A012217CAL.B\A00BFB.D BFB Injection Date: 01/22/2017

Instrument ID: 50MV2A BFB Injection Time: 21:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.91	
75	30.00 - 60.00% of mass 95	47.91	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	5.65	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	99.78	
175	5.00 - 9.00% of mass 174	7.59	(7.60)[1]
176	95.00 - 101.00% of mass 174	95.22	(95.42)[1]
177	5.00 - 9.00% of mass 176	6.69	(7.03)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10916969CAL1	10916969CAL1	A012217CAL.B\A01CAL1.D	01/22/2017	21:54
10916967CAL2	10916967CAL2	A012217CAL.B\A02CAL2.D	01/22/2017	22:27
10916972CAL3	10916972CAL3	A012217CAL.B\A03CAL3.D	01/22/2017	23:00
10916968CAL4	10916968CAL4	A012217CAL.B\A04CAL4.D	01/22/2017	23:33
10916970CAL5	10916970CAL5	A012217CAL.B\A05CAL5.D	01/23/2017	00:05
10916974CAL6	10916974CAL6	A012217CAL.B\A06CAL6.D	01/23/2017	00:38
10916975CAL7	10916975CAL7	A012217CAL.B\A07CAL7.D	01/23/2017	01:11
10916971CAL8	10916971CAL8	A012217CAL.B\A08CAL8.D	01/23/2017	01:44
10916973ICV	10916973ICV	A012217CAL.B\A11ICV.D	01/23/2017	02:50

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: A012417.B\A00BFB.D BFB Injection Date: 01/24/2017

Instrument ID: 50MV2A BFB Injection Time: 22:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.91	
75	30.00 - 60.00% of mass 95	47.64	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.59	
173	Less than 2.00% of mass 174	0.33	(0.34)[1]
174	50.00 - 100.00% of mass 95	98.38	
175	5.00 - 9.00% of mass 174	7.52	(7.64)[1]
176	95.00 - 101.00% of mass 174	93.73	(95.28)[1]
177	5.00 - 9.00% of mass 176	6.31	(6.73)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10926851CCV	10926851CCV	A012417.B\A01CCV.D	01/24/2017	23:13
1713791LCS	1713791LCS	A012417.B\A02LCS.D	01/24/2017	23:46
1713790BLANK	1713790BLANK	A012417.B\A04MB.D	01/25/2017	00:52
TB-1	50163373005	A012417.B\A06.D	01/25/2017	01:58

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: A012417.B\C00BFB.D BFB Injection Date: 01/25/2017

Instrument ID: 50MV2A BFB Injection Time: 10:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	18.57	
75	30.00 - 60.00% of mass 95	49.62	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.60	
173	Less than 2.00% of mass 174	0.14	(0.14)[1]
174	50.00 - 100.00% of mass 95	97.00	
175	5.00 - 9.00% of mass 174	7.09	(7.30)[1]
176	95.00 - 101.00% of mass 174	93.47	(96.36)[1]
177	5.00 - 9.00% of mass 176	6.31	(6.75)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10926853CCV	10926853CCV	A012417.B\C01CCV.D	01/25/2017	11:17
1713802LCS	1713802LCS	A012417.B\C02LCS.D	01/25/2017	11:50
1713801BLANK	1713801BLANK	A012417.B\C04MB.D	01/25/2017	12:56
MW-2	50163373002	A012417.B\C07.D	01/25/2017	16:28
1713803MS	1713803MS	A012417.B\C08.D	01/25/2017	17:01
1713804MSD	1713804MSD	A012417.B\C09.D	01/25/2017	17:34
MW-3	50163373003	A012417.B\C10.D	01/25/2017	18:07
FD-1	50163373004	A012417.B\C11.D	01/25/2017	18:39

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: A012517.B\A00BFB.D BFB Injection Date: 01/25/2017

Instrument ID: 50MV2A BFB Injection Time: 23:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.93	
75	30.00 - 60.00% of mass 95	50.07	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.88	
173	Less than 2.00% of mass 174	0.43	(0.46)[1]
174	50.00 - 100.00% of mass 95	94.09	
175	5.00 - 9.00% of mass 174	6.68	(7.10)[1]
176	95.00 - 101.00% of mass 174	93.94	(99.83)[1]
177	5.00 - 9.00% of mass 176	5.54	(5.90)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10927559CCV	10927559CCV	A012517.B\A01CCV.D	01/26/2017	00:11
1714602LCS	1714602LCS	A012517.B\A02LCS.D	01/26/2017	00:44
1714601BLANK	1714601BLANK	A012517.B\A04MB.D	01/26/2017	01:50
MW-1	50163373001	A012517.B\A16.D	01/26/2017	08:25

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: B012217CAL.B\B00BFB.D BFB Injection Date: 01/22/2017

Instrument ID: 50MV2B BFB Injection Time: 21:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	16.08	
75	30.00 - 60.00% of mass 95	47.59	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	5.79	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	99.02	
175	5.00 - 9.00% of mass 174	7.48	(7.56)[1]
176	95.00 - 101.00% of mass 174	96.85	(97.81)[1]
177	5.00 - 9.00% of mass 176	6.25	(6.45)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10917044CAL1	10917044CAL1	B012217CAL.B\B01CAL1.D	01/22/2017	22:10
10917049CAL2	10917049CAL2	B012217CAL.B\B02CAL2.D	01/22/2017	22:43
10917053CAL3	10917053CAL3	B012217CAL.B\B03CAL3.D	01/22/2017	23:16
10917051CAL4	10917051CAL4	B012217CAL.B\B04CAL4.D	01/22/2017	23:49
10917043CAL5	10917043CAL5	B012217CAL.B\B05CAL5.D	01/23/2017	00:22
10917045CAL6	10917045CAL6	B012217CAL.B\B06CAL6.D	01/23/2017	00:55
10917046CAL7	10917046CAL7	B012217CAL.B\B07CAL7.D	01/23/2017	01:28
10917052CAL8	10917052CAL8	B012217CAL.B\B08CAL8.D	01/23/2017	02:01
10917047ICV	10917047ICV	B012217CAL.B\B11ICV.D	01/23/2017	03:07

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Lab File ID: B012517.B\B00BFB.D BFB Injection Date: 01/25/2017

Instrument ID: 50MV2B BFB Injection Time: 23:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.81	
75	30.00 - 60.00% of mass 95	50.36	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.93	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	97.84	
175	5.00 - 9.00% of mass 174	7.69	(7.86)[1]
176	95.00 - 101.00% of mass 174	93.70	(95.77)[1]
177	5.00 - 9.00% of mass 176	6.35	(6.78)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
10929458CCV	10929458CCV	B012517.B\B01CCV.D	01/26/2017	00:28
MW-2	50163373002	B012517.B\B05.D	01/26/2017	02:39

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Sample ID : 10926851CCV Date Analyzed: 01/24/2017

Instrument ID: 50MV2A GC Column: Col 1 Time Analyzed: 23:13

Lab File ID: A012417.B\A01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		280060	7.365	142792	9.118	381395	4.065
UPPER LIMIT		560120	7.865	285584	9.618	762790	4.565
LOWER LIMIT		140030	6.865	71396	8.618	190697.5	3.565
LAB SAMPLE ID	SAMPLE NO.						
1713790	1713790BLANK	273352	7.368	129437	9.121	372916	4.068
1713791	1713791LCS	302503	7.365	149964	9.121	404205	4.068
50163373005	TB-1	262726	7.368	126172	9.121	359808	4.071

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Sample ID : 10926853CCV Date Analyzed: 01/25/2017

Instrument ID: 50MV2A GC Column: Col 1 Time Analyzed: 11:17

Lab File ID: A012417.B\C01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		227357	7.365	112212	9.118	305684	4.065
UPPER LIMIT		454714	7.865	224424	9.618	611368	4.565
LOWER LIMIT		113678.5	6.865	56106	8.618	152842	3.565
LAB SAMPLE ID	SAMPLE NO.						
1713801	1713801BLANK	227076	7.368	110873	9.121	311495	4.068
1713802	1713802LCS	227915	7.368	116427	9.118	305457	4.068
1713803	1713803MS	247474	7.368	125519	9.118	334111	4.065
1713804	1713804MSD	254591	7.368	126599	9.118	336182	4.071
50163373002	MW-2	243309	7.368	119799	9.121	331482	4.065
50163373003	MW-3	253881	7.365	126923	9.121	350032	4.068
50163373004	FD-1	246566	7.368	121943	9.118	337090	4.068

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Sample ID : 10927559CCV Date Analyzed: 01/26/2017

Instrument ID: 50MV2A GC Column: Col 1 Time Analyzed: 00:11

Lab File ID: A012517.B\A01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		265507	7.368	134063	9.118	346946	4.068
UPPER LIMIT		531014	7.868	268126	9.618	693892	4.568
LOWER LIMIT		132753.5	6.868	67031.5	8.618	173473	3.568
LAB SAMPLE ID	SAMPLE NO.						
1714601	1714601BLANK	229971	7.368	110332	9.121	308693	4.068
1714602	1714602LCS	256726	7.368	127142	9.121	339558	4.068
50163373001	MW-1	212785	7.368	104118	9.121	283708	4.068

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50163373 Contract: Quick Shop-S&P Petro

Sample ID : 10929458CCV Date Analyzed: 01/26/2017

Instrument ID: 50MV2B GC Column: Col 1 Time Analyzed: 00:28

Lab File ID: B012517.B\B01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		170140	7.368	103198	9.118	214084	4.071
UPPER LIMIT		340280	7.868	206396	9.618	428168	4.571
LOWER LIMIT		85070	6.868	51599	8.618	107042	3.571
LAB SAMPLE ID	SAMPLE NO.						
50163373002	MW-2	155144	7.368	88699	9.121	176670	4.079

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

SAMPLE NO.

MW-1

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 08:25
Lab Sample ID: 50163373001
Date Analyzed: 01/26/2017 08:25
Lab File ID: A012517.B\A16.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

MW-1

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 08:25
Lab Sample ID: 50163373001
Date Analyzed: 01/26/2017 08:25
Lab File ID: A012517.B\A16.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	9.3	
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012517.b\a16.d
Lab Smp Id: 50163373001 Client Smp ID: MW-1
Inj Date : 26-JAN-2017 08:25
Operator : dae Inst ID: 50mv2a.i
Smp Info : 50163373001
Misc Info : 99197
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012517.b\-a8260_a_c.m
Meth Date : 26-Jan-2017 01:09 dengelhard Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

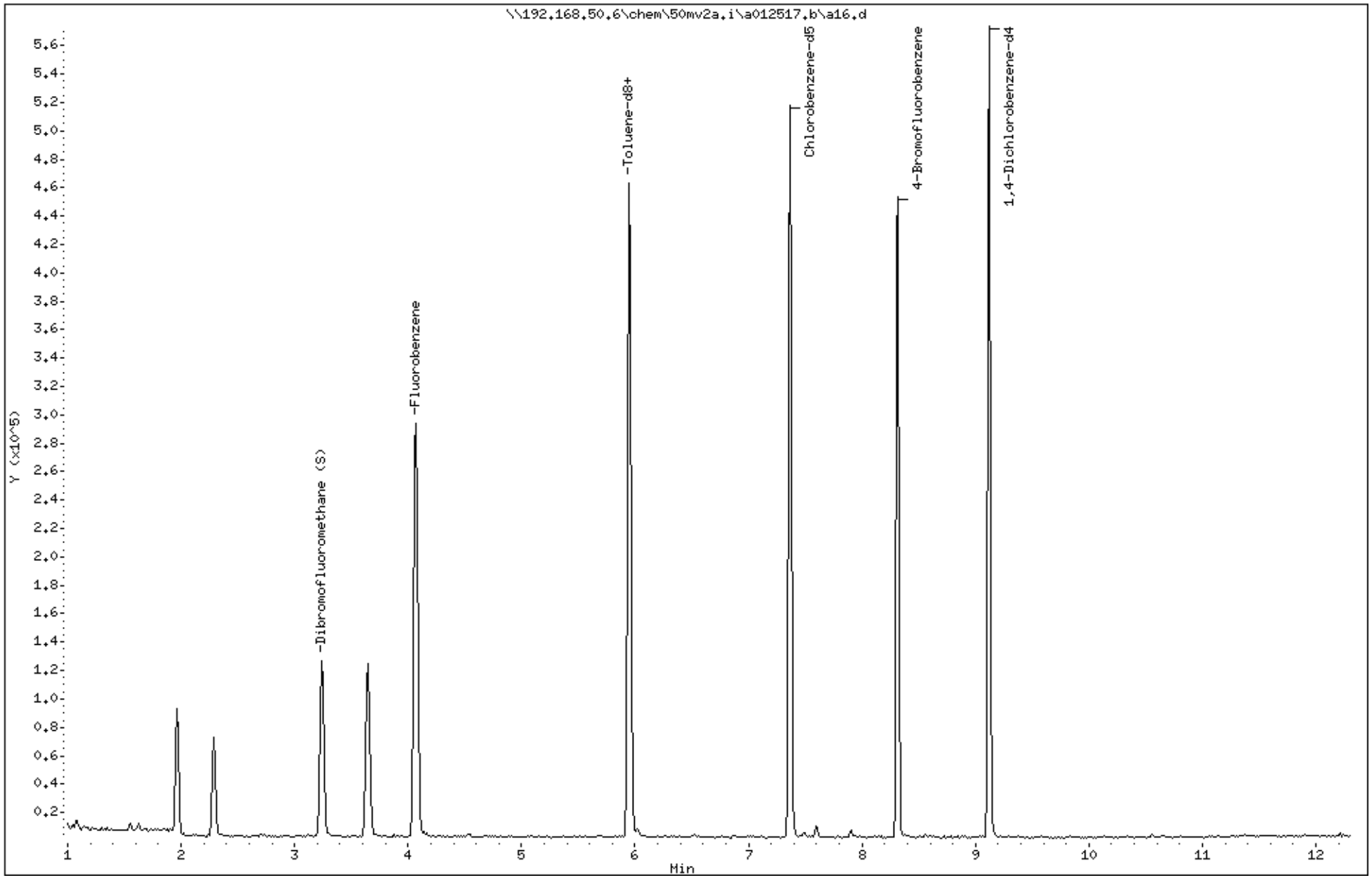
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.555	1.555	(0.382)	4548	4.50360	4.50	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	57179	9.25788	9.26	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	69778	48.7639	48.8	
* 45 Fluorobenzene	96	4.067	4.068	(1.000)	283708	50.0000		
$ 57 Toluene-d8	98	5.948	5.949	(0.807)	272629	49.3516	49.4	
58 Toluene	91	6.029	6.021	(0.818)	3280	0.42148	0.421	
* 67 Chlorobenzene-d5	117	7.367	7.367	(1.000)	212785	50.0000		
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	94674	50.0365	50.0	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	104118	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a16.d
Date : 26-JAN-2017 08:25
Client ID: MW-1
Sample Info: 50163373001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a16.d

Date : 26-JAN-2017 08:25

Client ID: MW-1

Instrument: 50mv2a.i

Sample Info: 50163373001

Purge Volume: 5.0

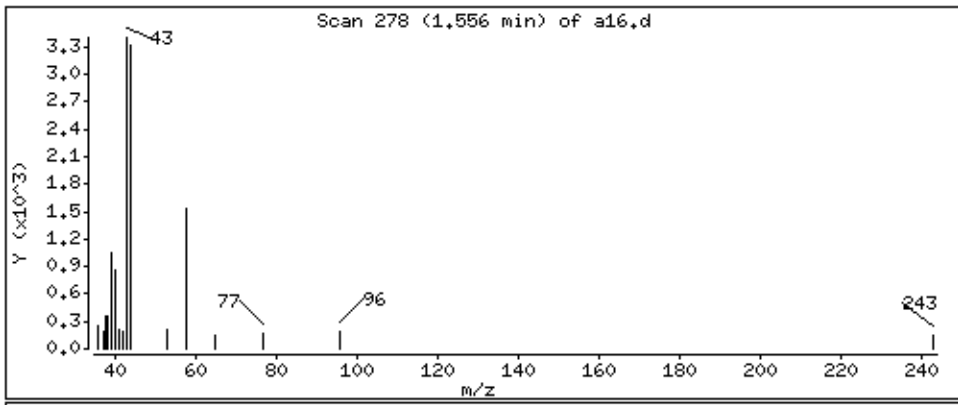
Operator: dae

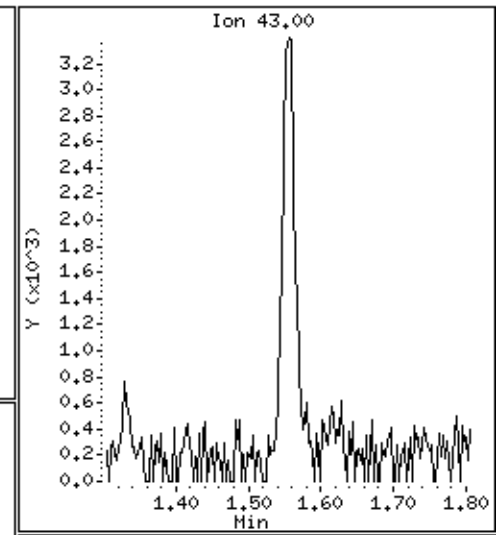
Column phase: DB-624

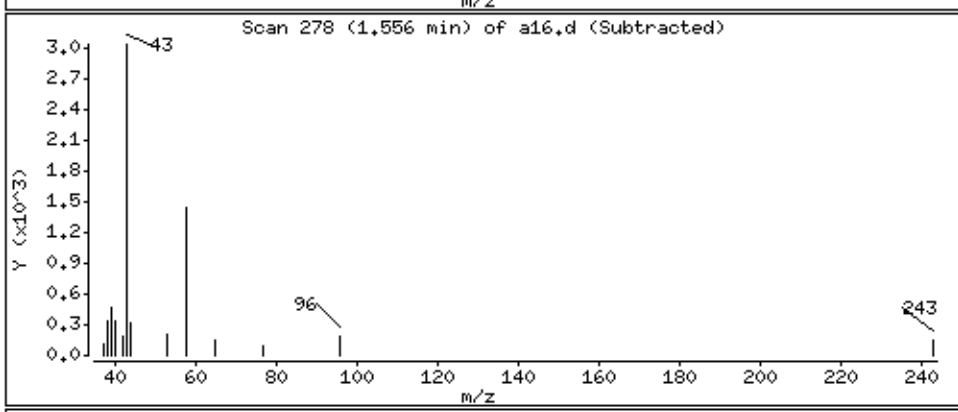
Column diameter: 0.18

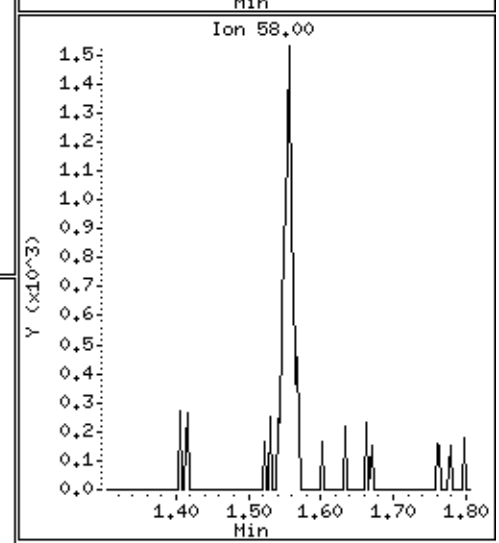
12 Acetone

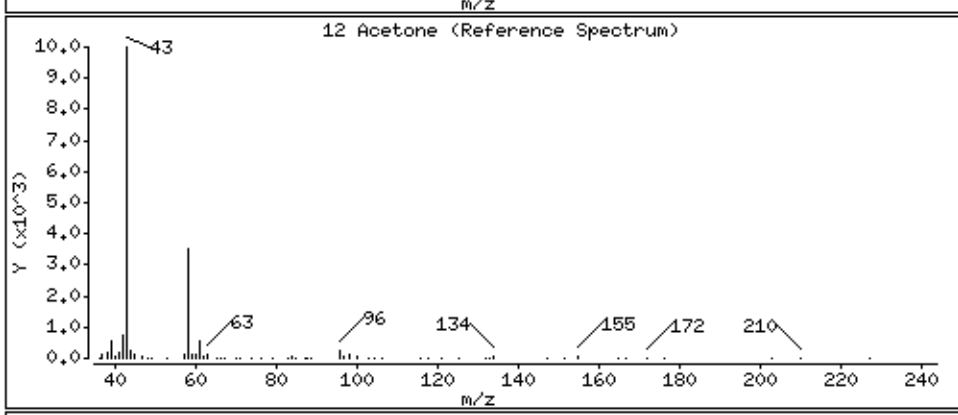
Concentration: 4.50 ppb

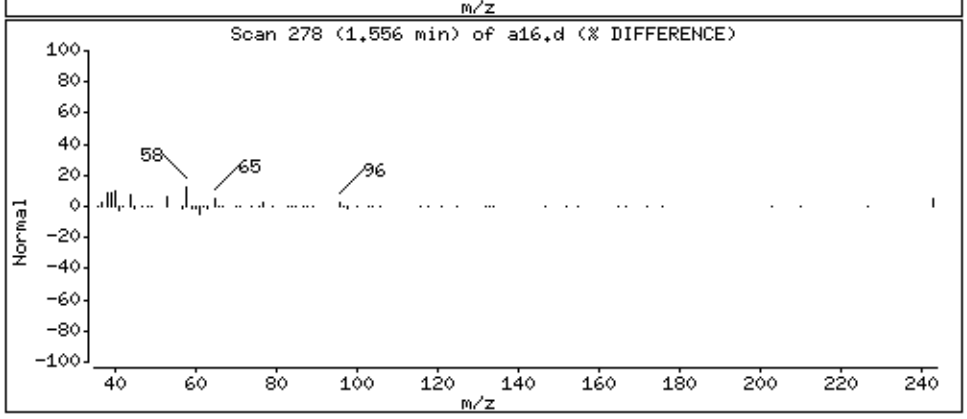












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a16.d

Date : 26-JAN-2017 08:25

Client ID: MW-1

Instrument: 50mv2a.i

Sample Info: 50163373001

Purge Volume: 5.0

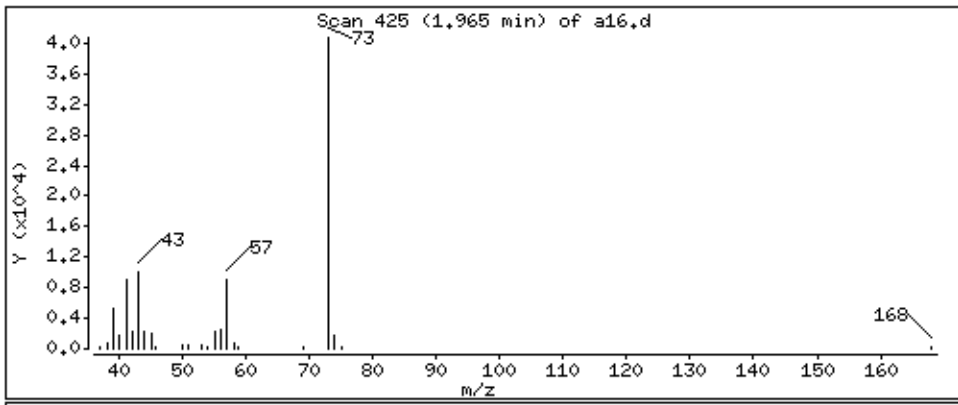
Operator: dae

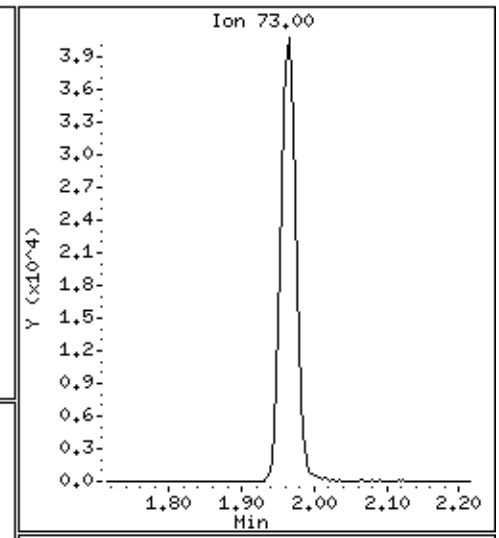
Column phase: DB-624

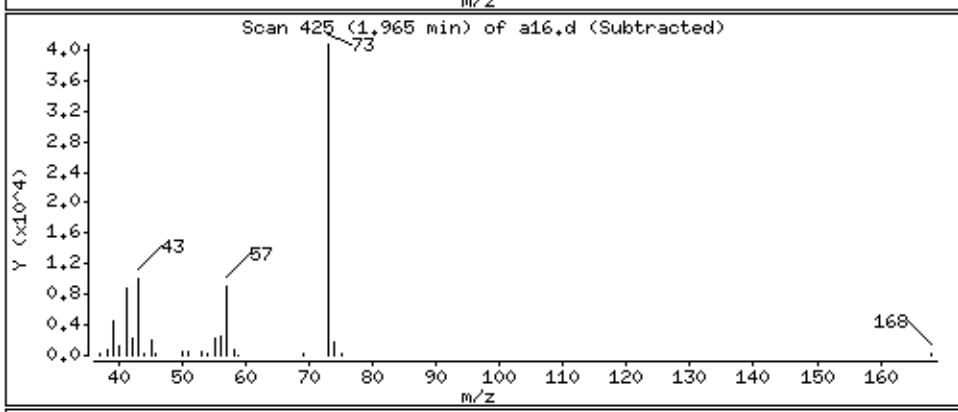
Column diameter: 0.18

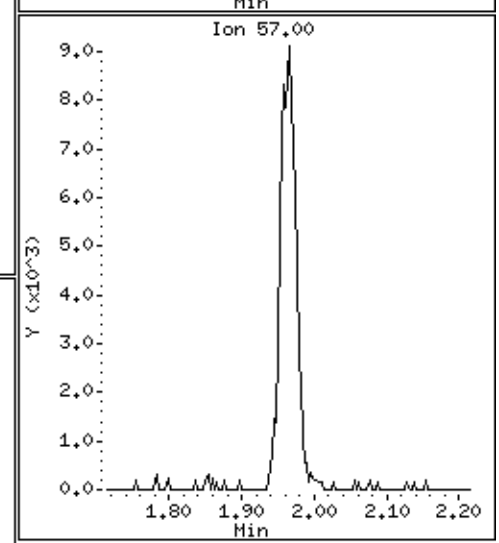
21 Methyl-tert-butyl ether

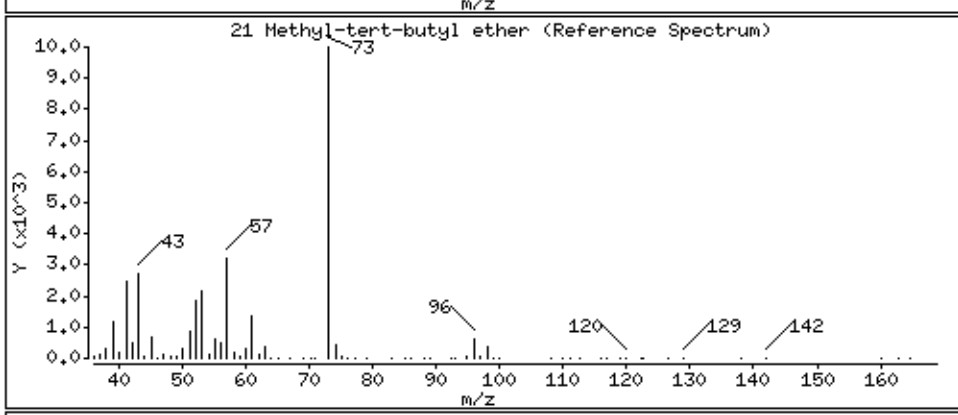
Concentration: 9.26 ppb

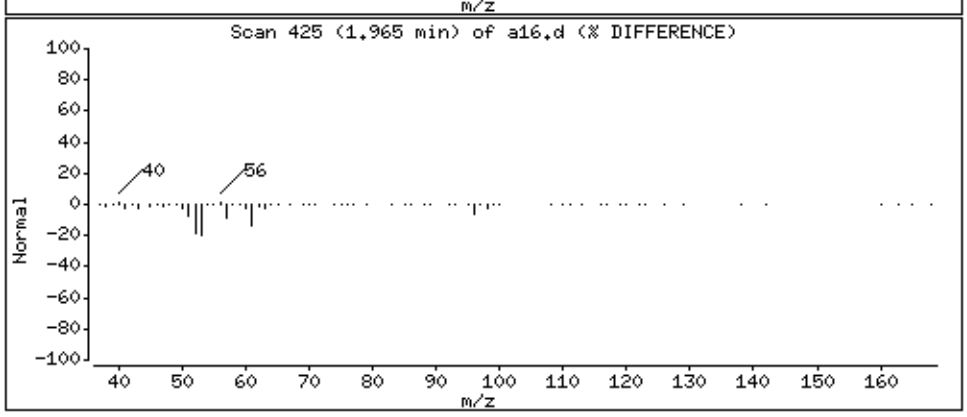












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Date : 26-JAN-2017 08:25

Client ID: MW-1

Instrument: 50mv2a.i

Sample Info: 50163373001

Purge Volume: 5.0

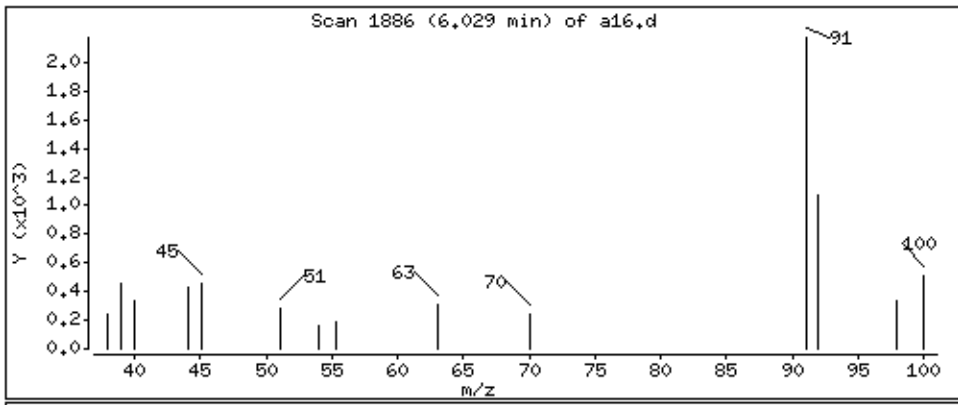
Operator: dae

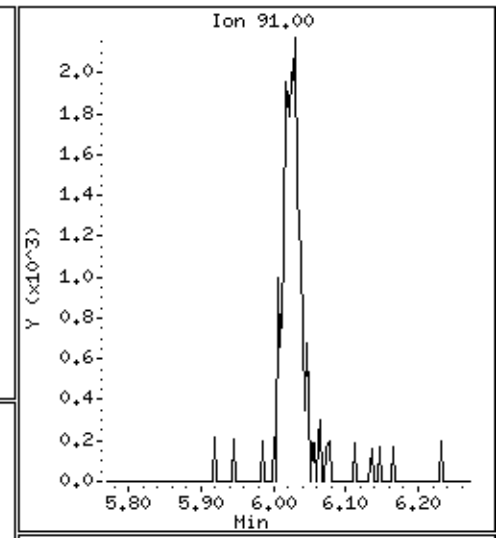
Column phase: DB-624

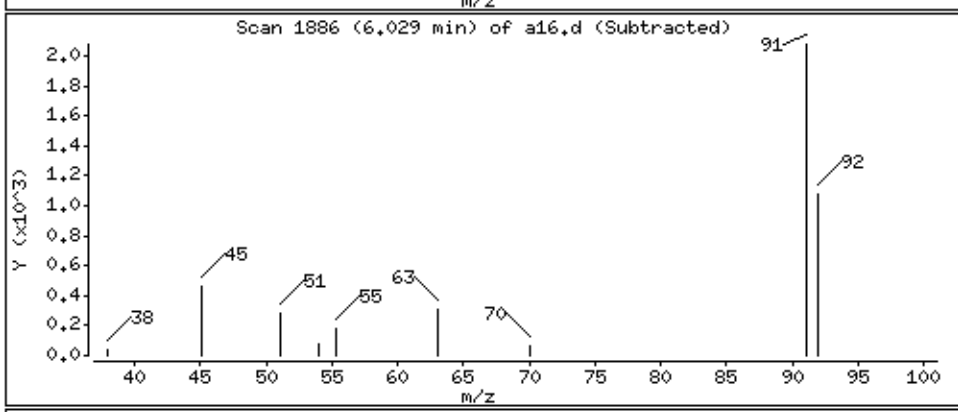
Column diameter: 0.18

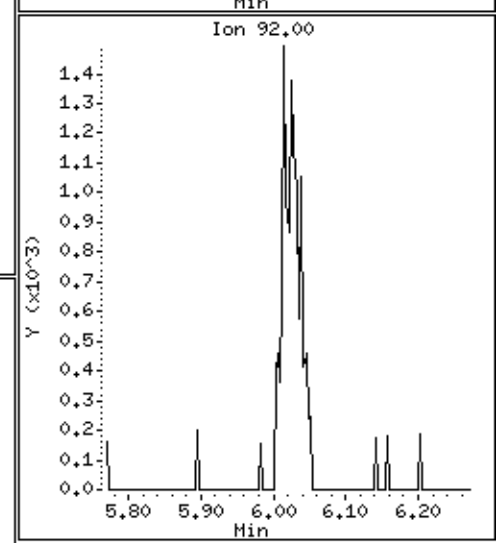
58 Toluene

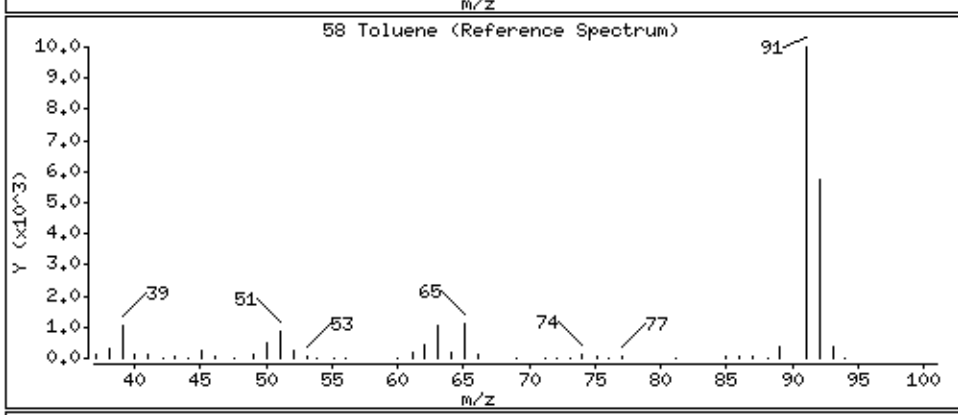
Concentration: 0.421 ppb

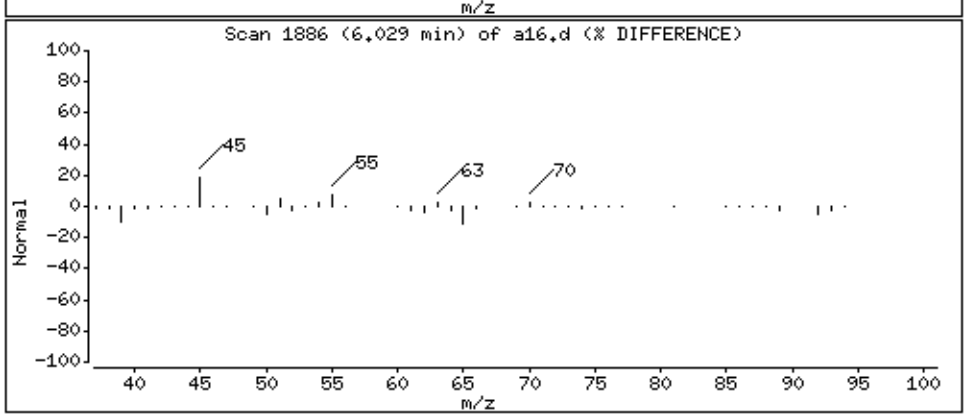












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Injection Date: 26-JAN-2017 08:25
Instrument: 50mv2a.i
Lab Sample ID: 50163373001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-2

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 16:28
Lab Sample ID: 50163373002
Date Analyzed: 01/25/2017 16:28
Lab File ID: A012417.B\C07.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

MW-2

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 16:28
Lab Sample ID: 50163373002
Date Analyzed: 01/25/2017 16:28
Lab File ID: A012417.B\C07.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c07.d
Lab Smp Id: 50163373002 Client Smp ID: MW-2
Inj Date : 25-JAN-2017 16:28
Operator : dae Inst ID: 50mv2a.i
Smp Info : 50163373002
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.555	1.553	(0.383)	21770	26.4444	26.4	
13 Iodomethane	142	1.628	1.625	(0.400)	2602	1.54050	1.54	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	79751	47.7010	47.7	
150 n-butyl chloride	56	3.364	3.378	(0.828)	4189	0.88816	0.888	
41 Benzene	78	3.653	3.653	(0.899)	5005	0.56403	0.564	
43 2,2,4-Trimethylpentane	57	3.828	3.828	(0.942)	12230	2.14287	2.14	
* 45 Fluorobenzene	96	4.065	4.065	(1.000)	331482	50.0000		
47 Trichloroethene	95	4.532	4.527	(1.115)	2498	1.14091	1.14	
$ 57 Toluene-d8	98	5.948	5.946	(0.807)	318887	50.4834	50.5	
58 Toluene	91	6.023	6.021	(0.818)	18798	2.11249	2.11	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	243309	50.0000		
70 Ethylbenzene	106	7.490	7.484	(1.017)	12169	3.95687	3.96	
71 m&p-Xylene	106	7.593	7.596	(1.031)	54251	14.6020	14.6	
72 o-Xylene	106	7.899	7.896	(1.072)	11963	3.49741	3.50	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	108908	50.3384	50.3	
82 n-Propylbenzene	91	8.491	8.486	(0.931)	4090	0.47178	0.472	
84 1,3,5-Trimethylbenzene	105	8.625	8.620	(0.946)	5754	0.89715	0.897	
87 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	17100	2.57713	2.58	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	119799	50.0000		

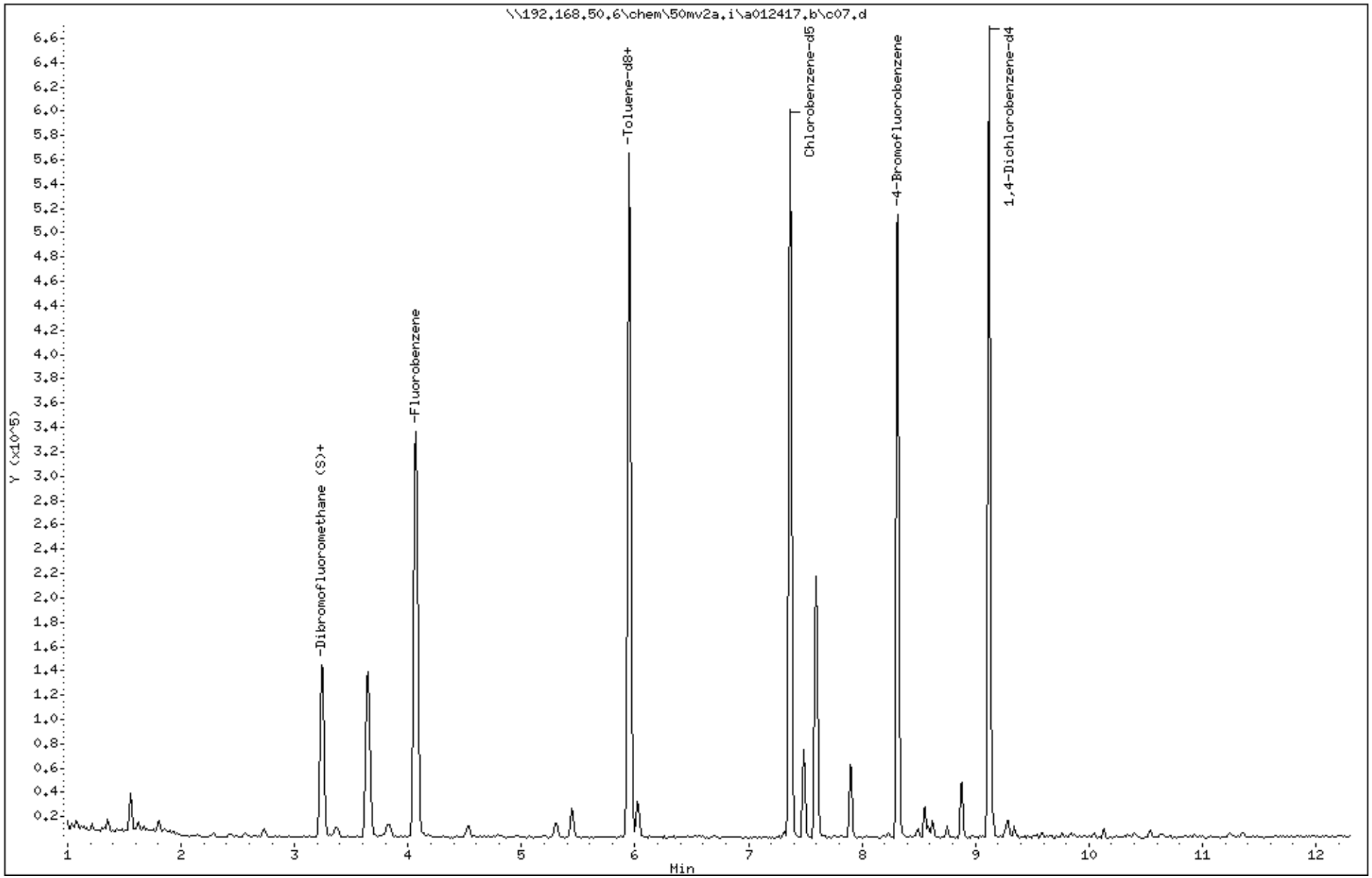
QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c07.d
Date : 25-JAN-2017 16:28
Client ID: MW-2
Sample Info: 50163373002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

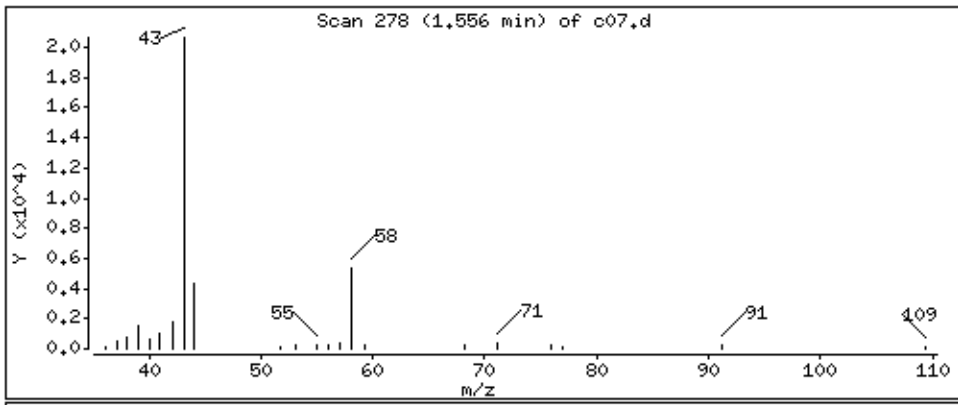
Operator: dae

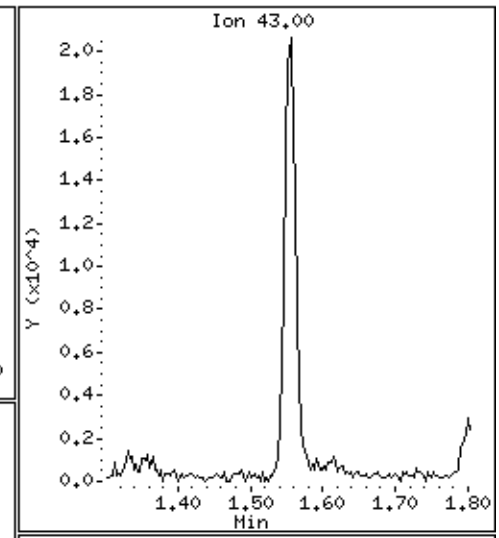
Column phase: DB-624

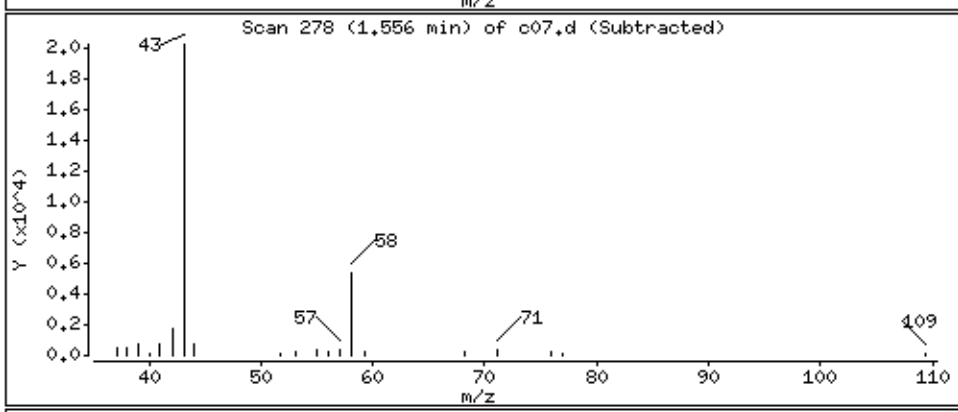
Column diameter: 0.18

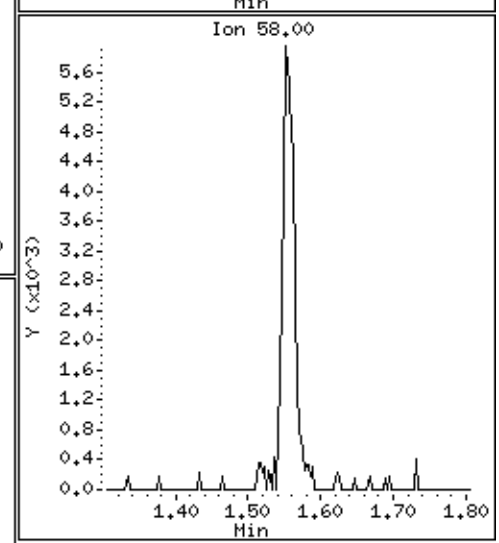
12 Acetone

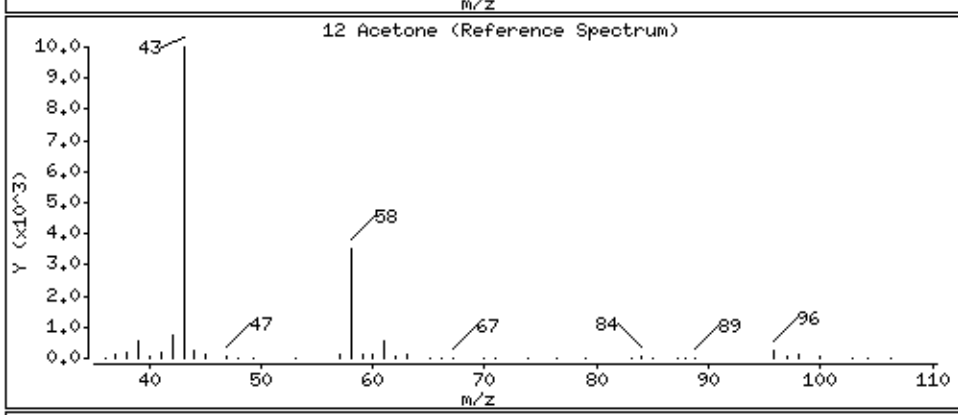
Concentration: 26.4 ppb

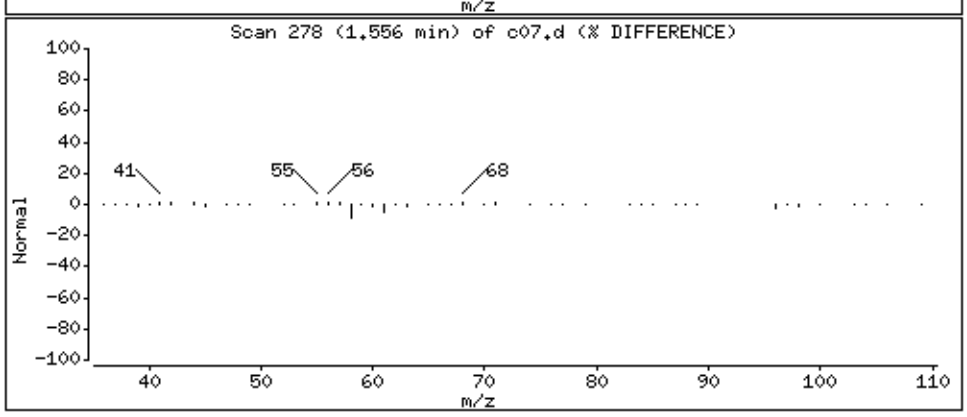












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

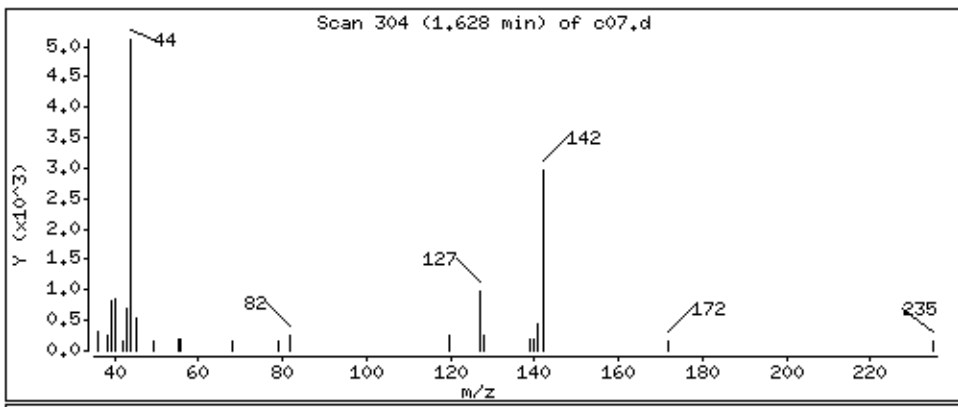
Operator: dae

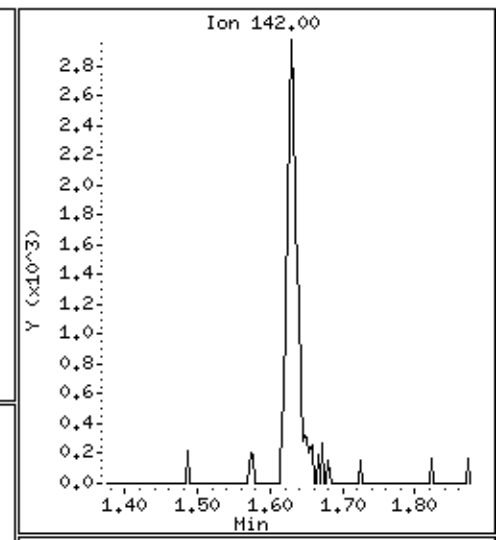
Column phase: DB-624

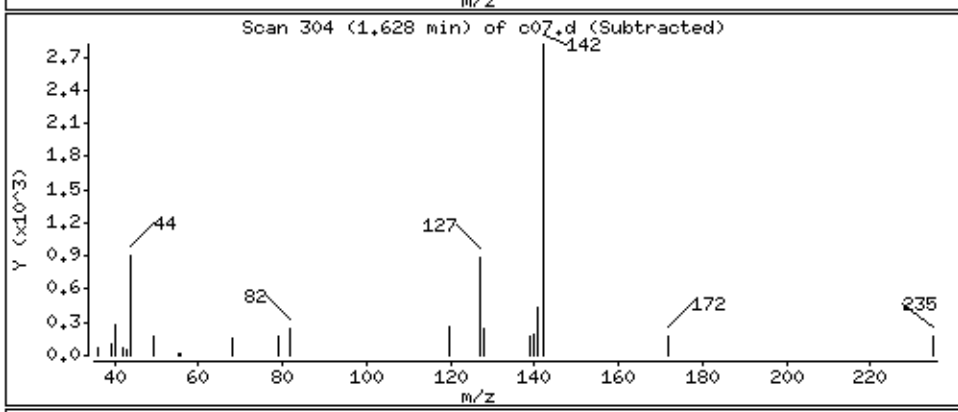
Column diameter: 0.18

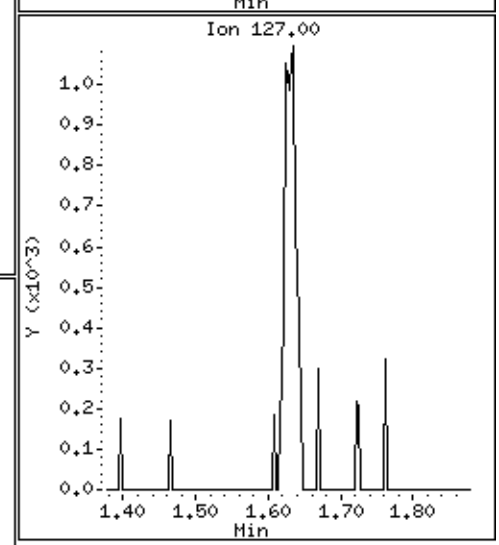
13 Iodomethane

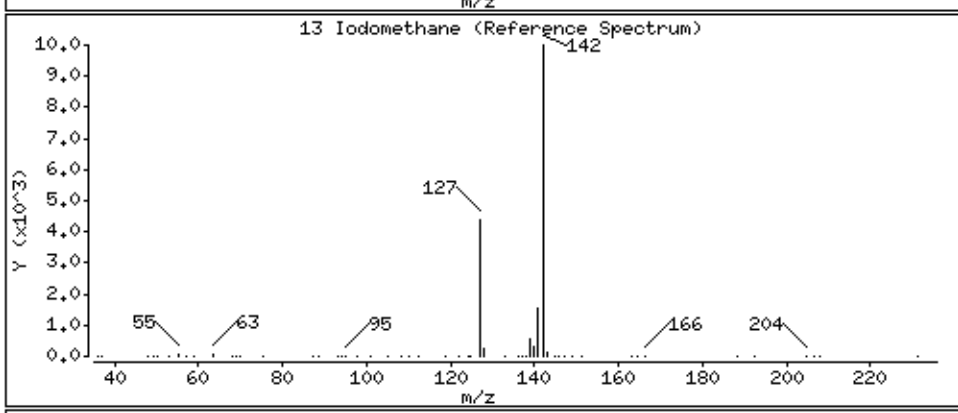
Concentration: 1.54 ppb

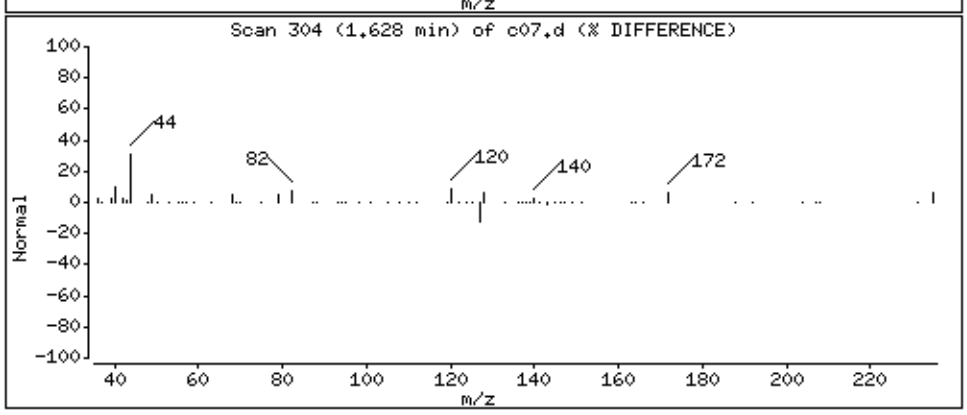












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

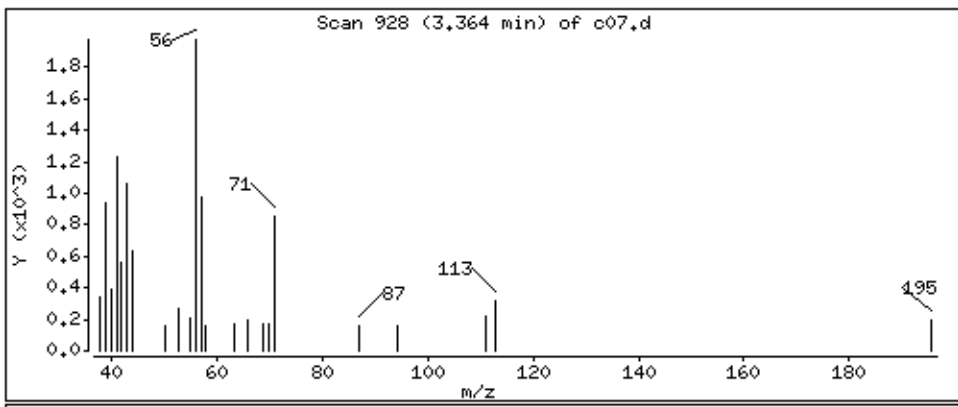
Operator: dae

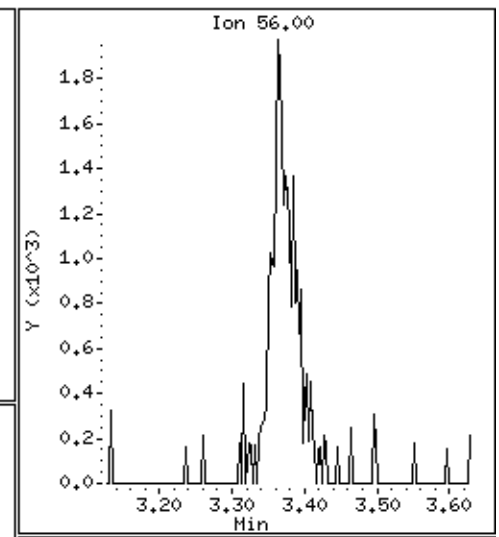
Column phase: DB-624

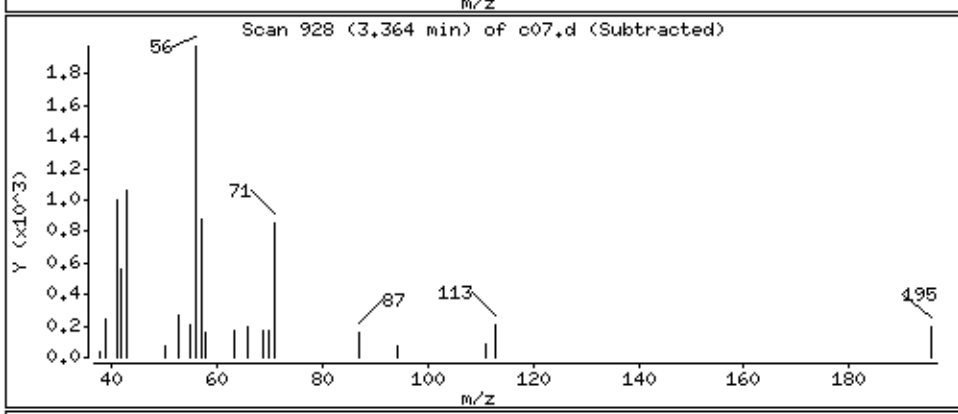
Column diameter: 0.18

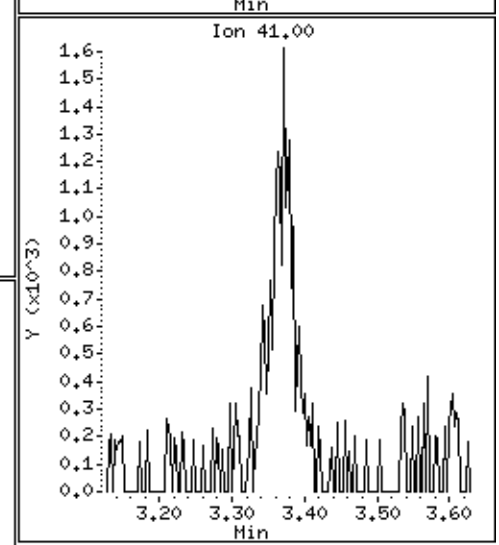
150 n-butyl chloride

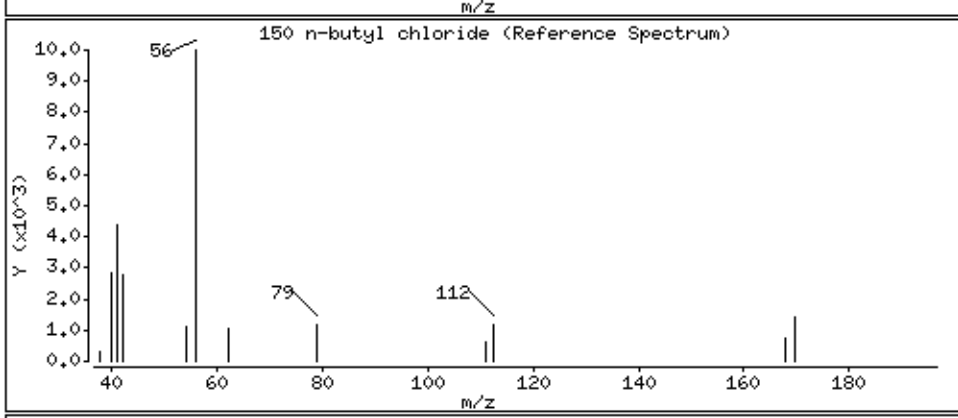
Concentration: 0.888 ppb

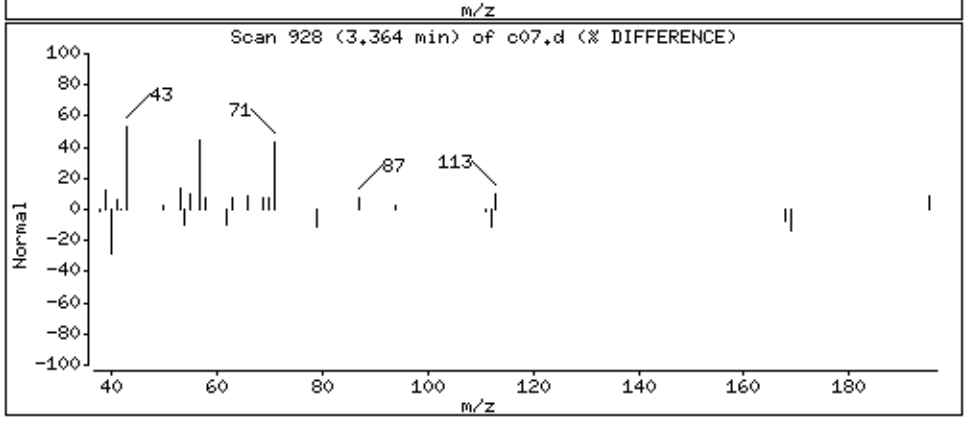












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

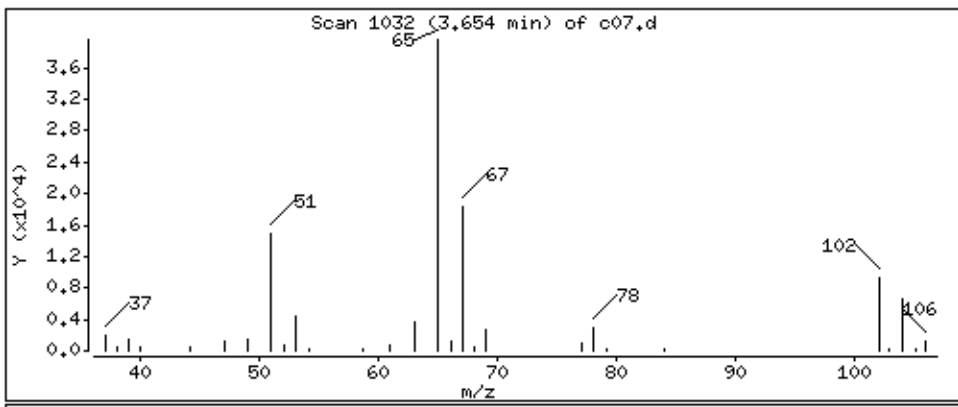
Operator: dae

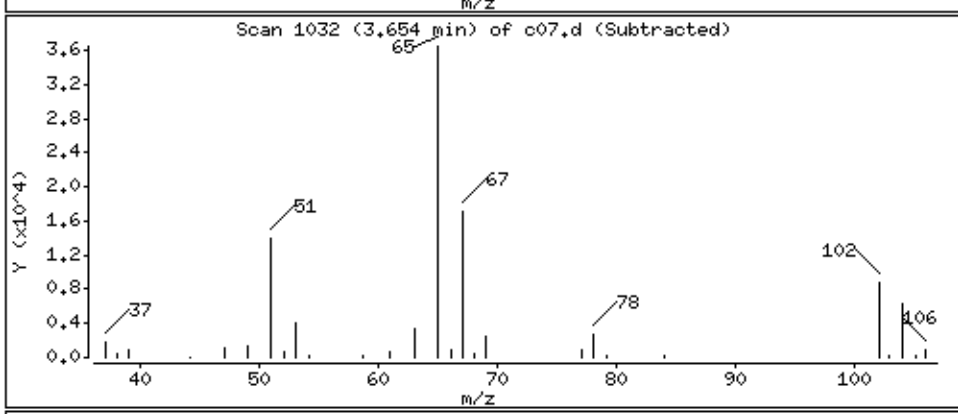
Column phase: DB-624

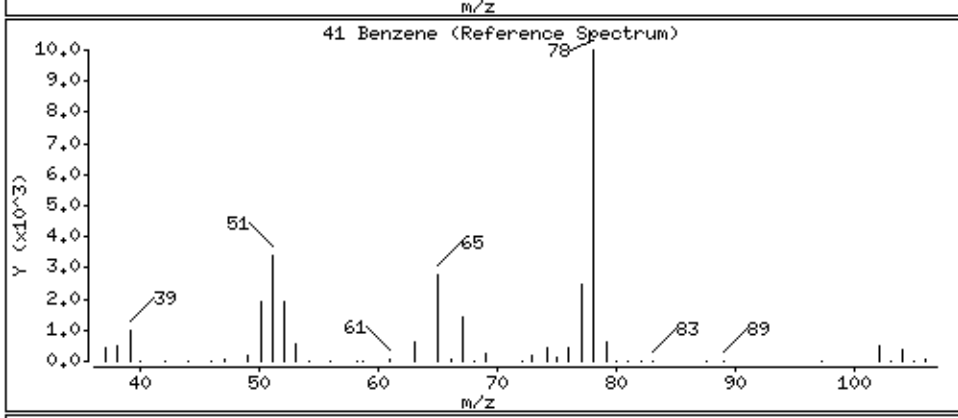
Column diameter: 0.18

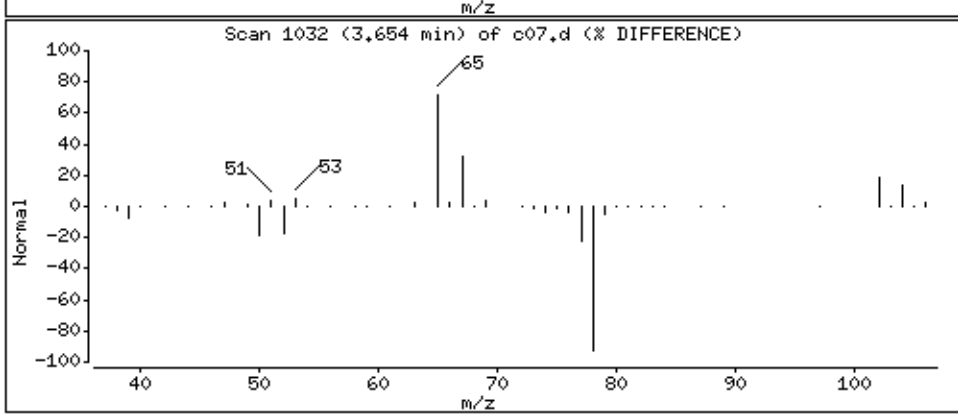
41 Benzene

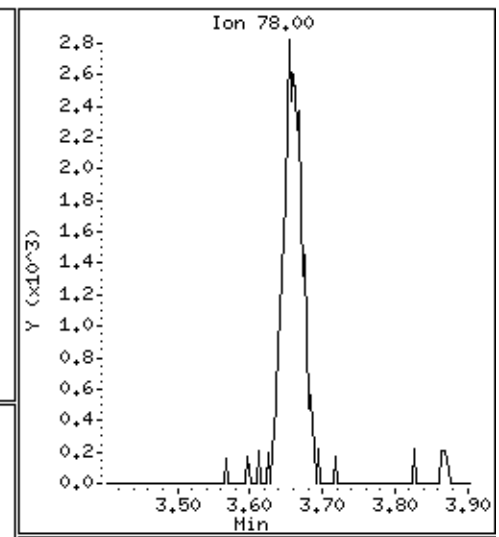
Concentration: 0.564 ppb

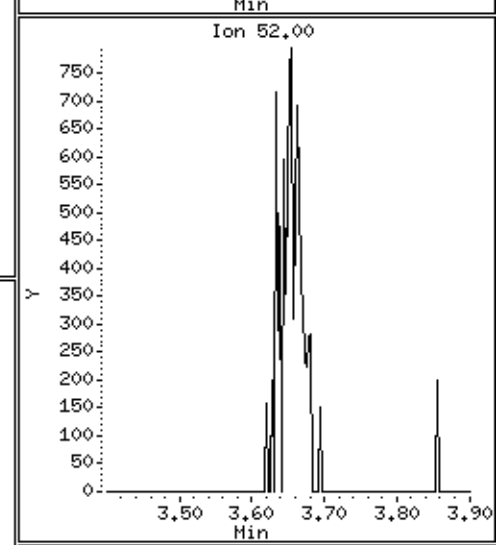


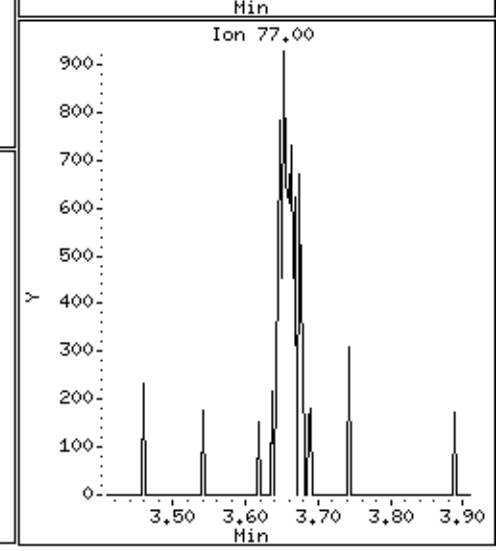












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

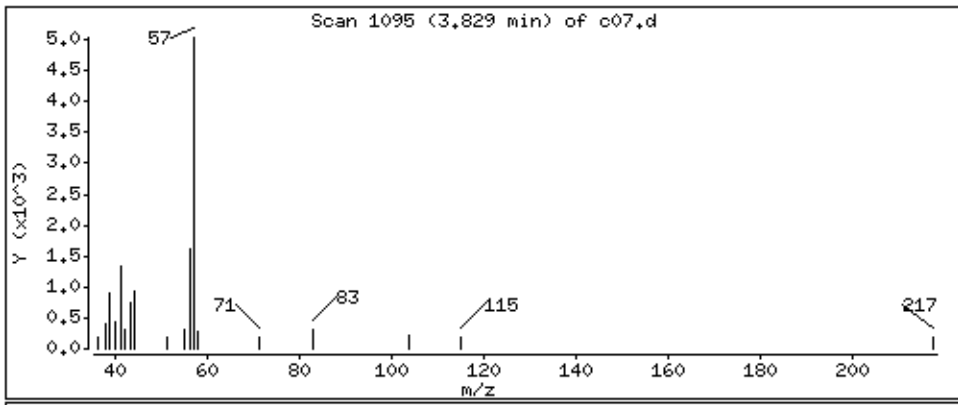
Operator: dae

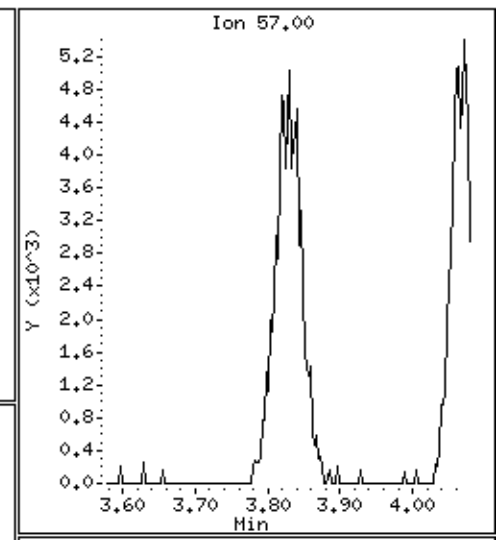
Column phase: DB-624

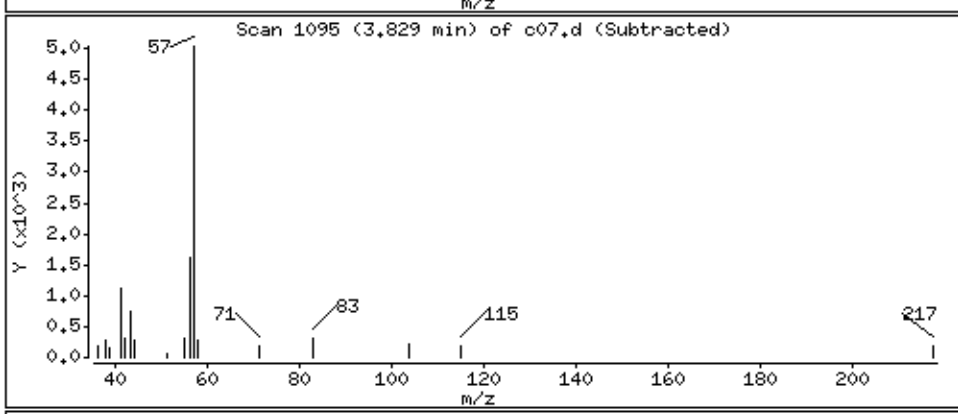
Column diameter: 0.18

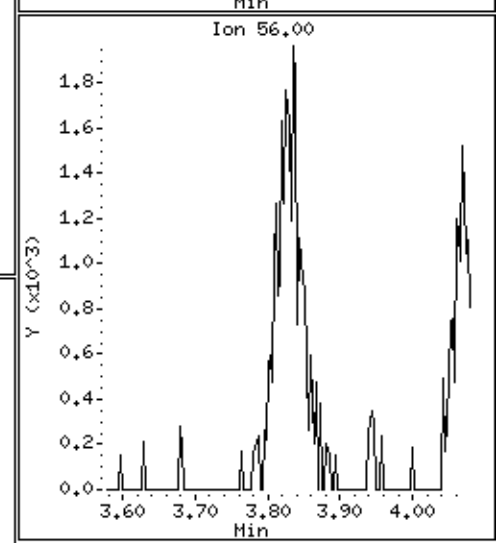
43 2,2,4-Trimethylpentane

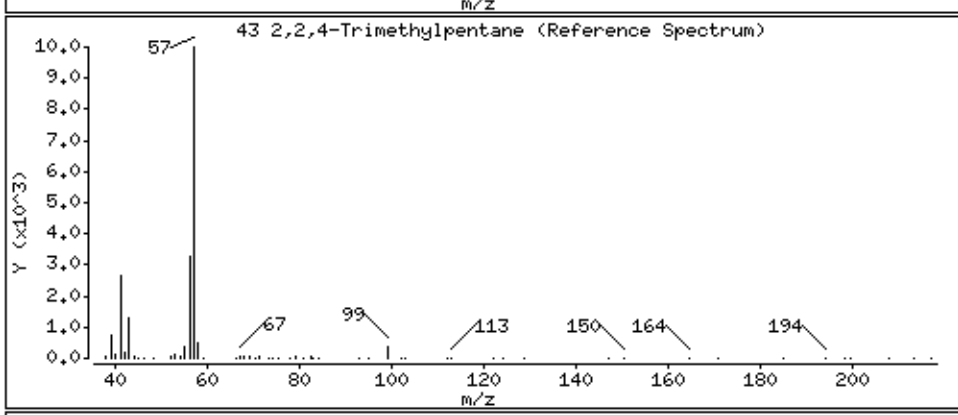
Concentration: 2.14 ppb

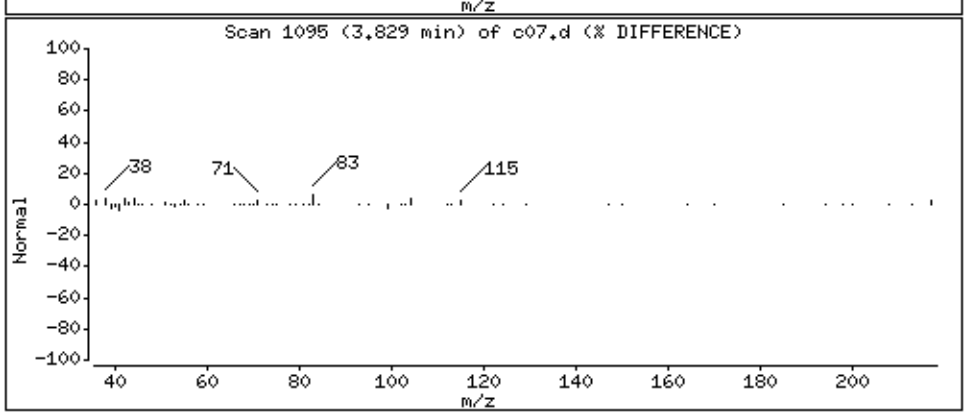












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

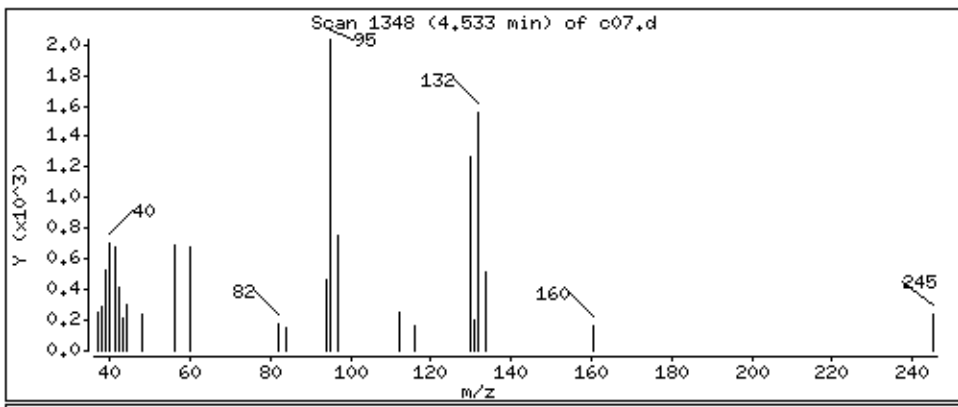
Operator: dae

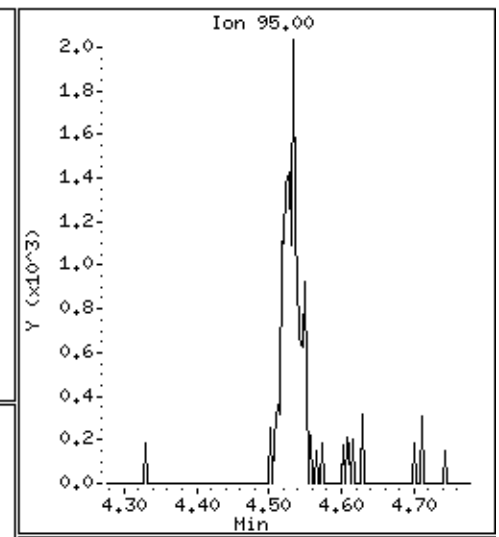
Column phase: DB-624

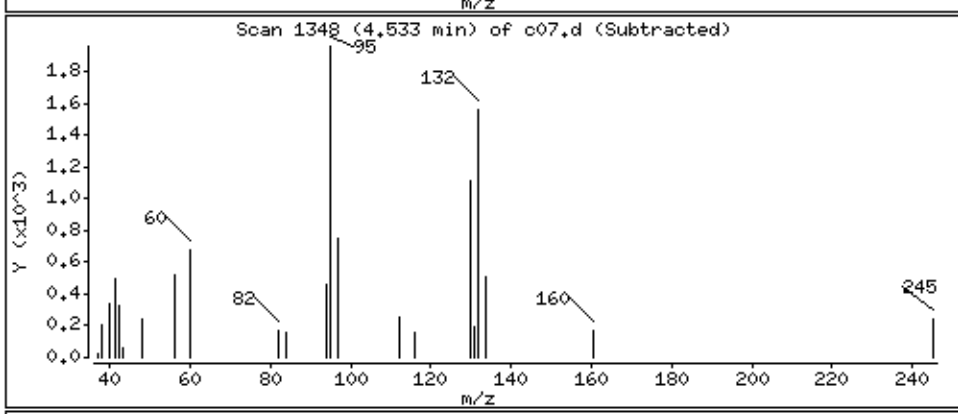
Column diameter: 0.18

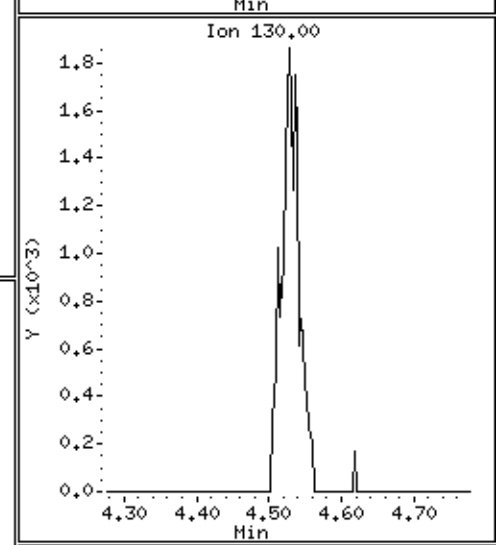
47 Trichloroethene

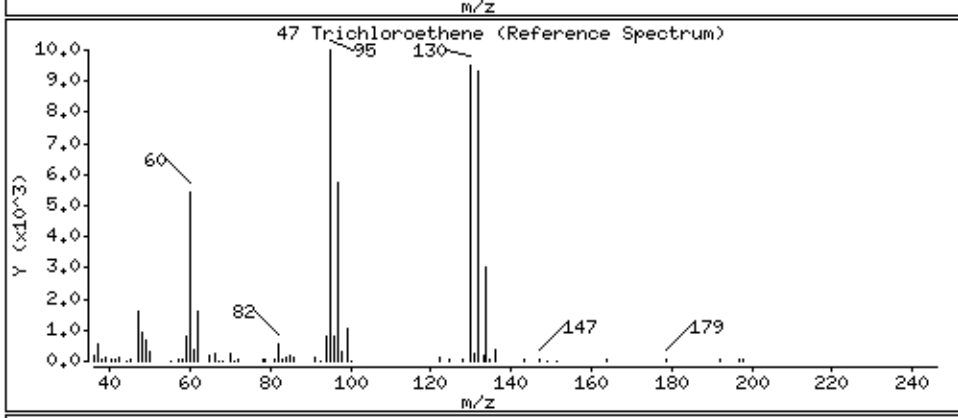
Concentration: 1.14 ppb

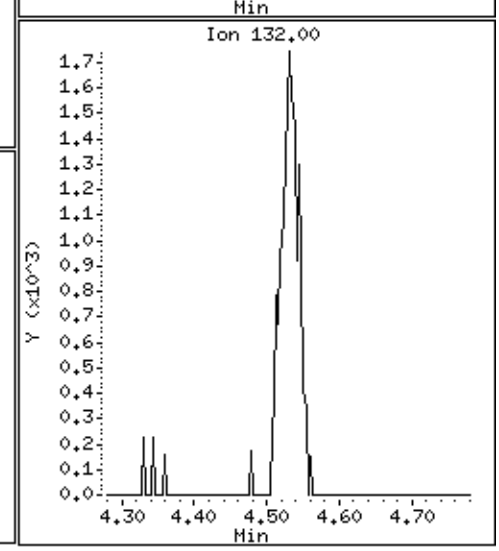


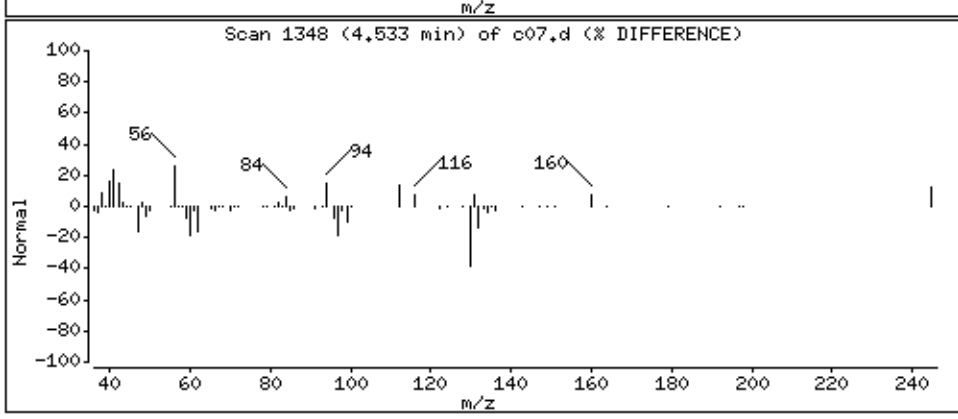












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

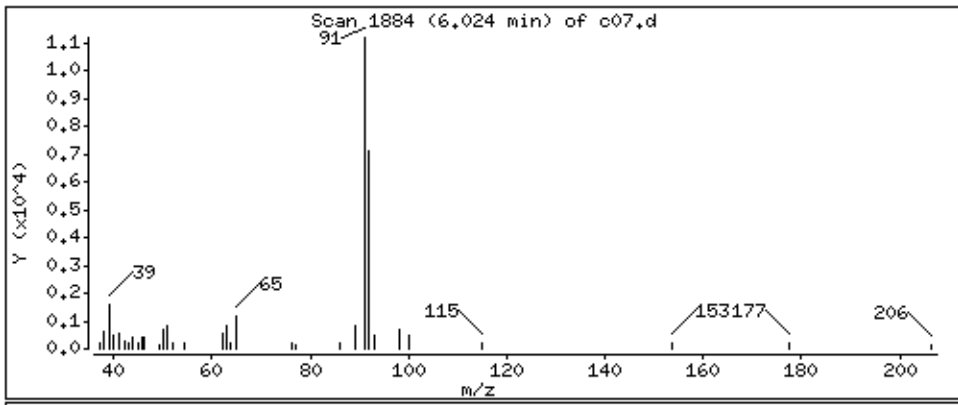
Operator: dae

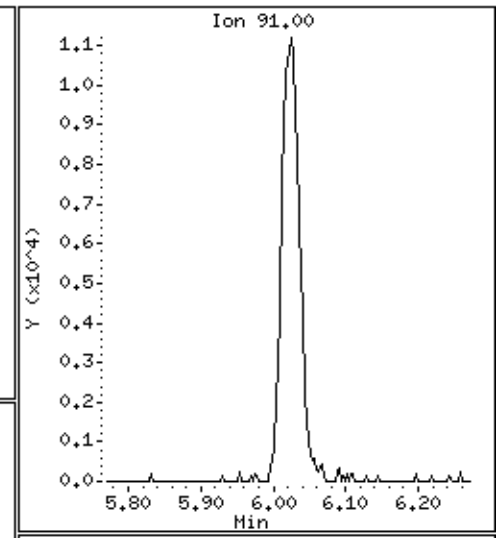
Column phase: DB-624

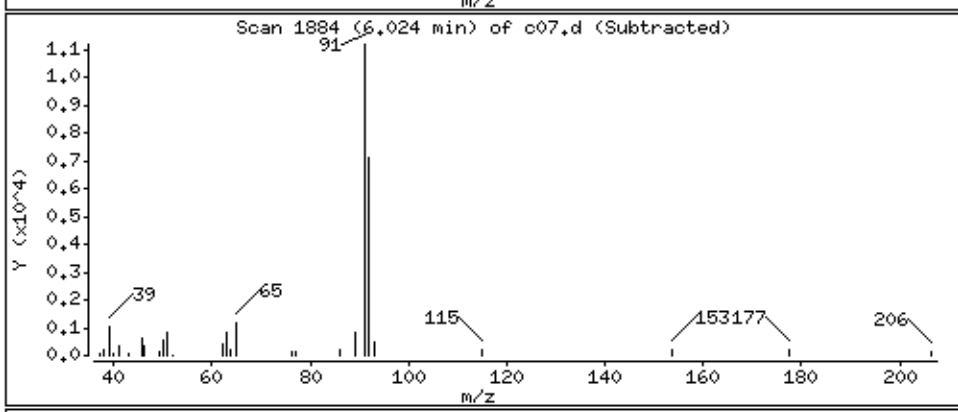
Column diameter: 0.18

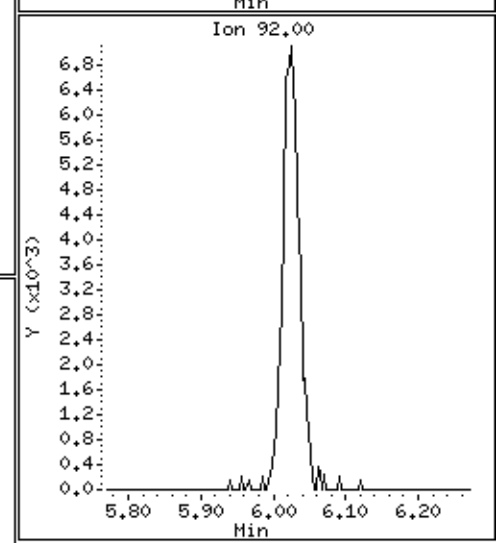
58 Toluene

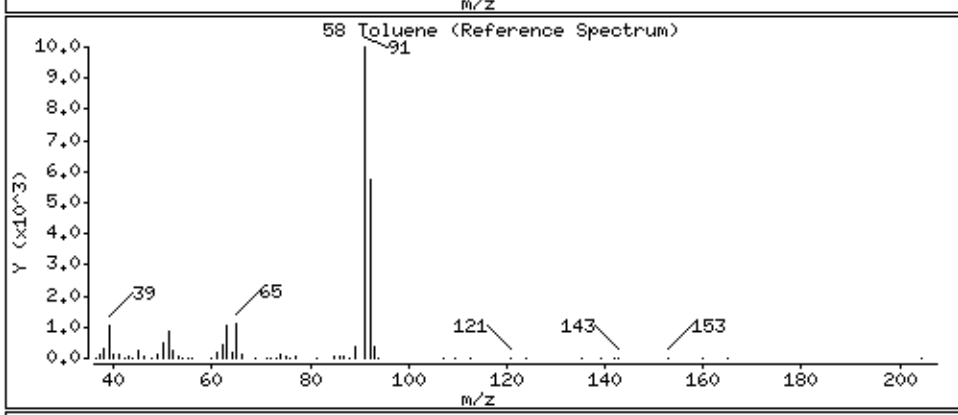
Concentration: 2.11 ppb

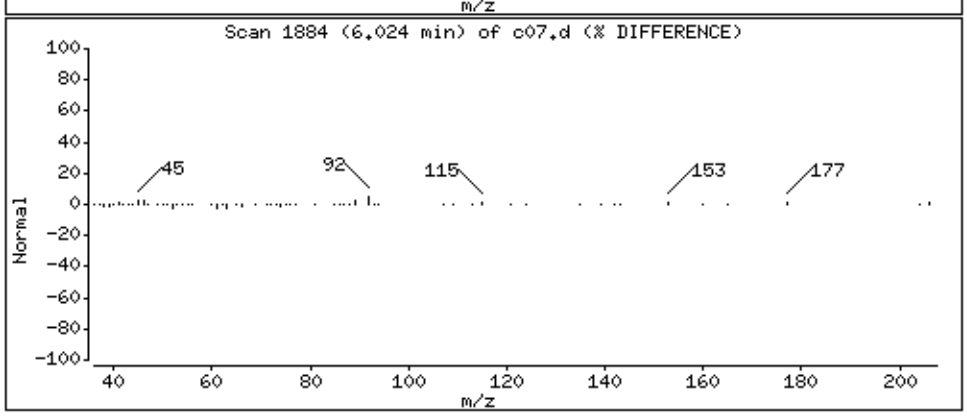












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

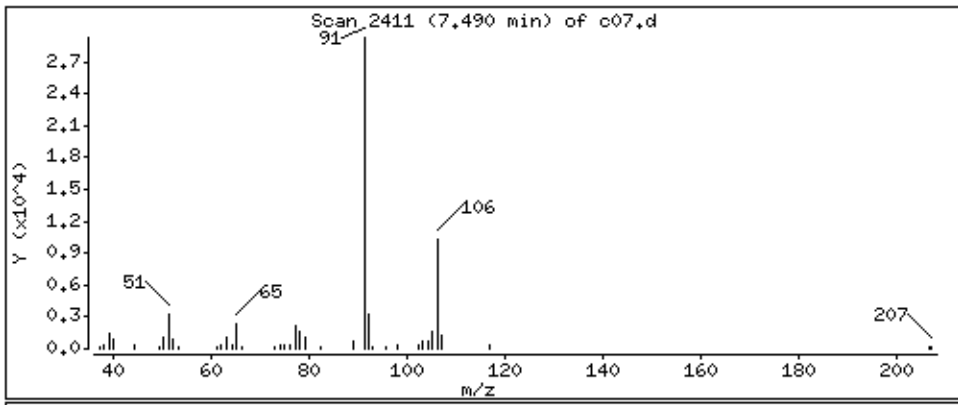
Operator: dae

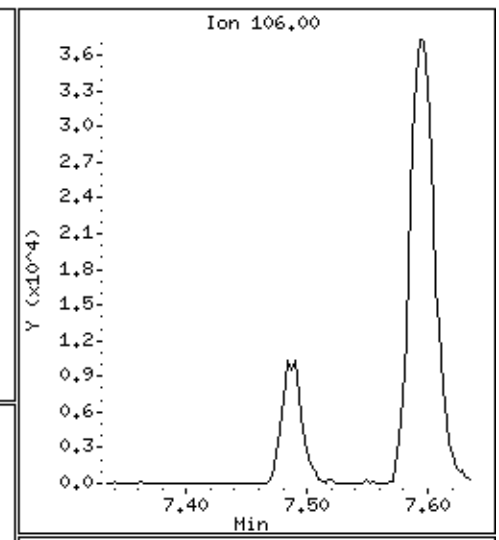
Column phase: DB-624

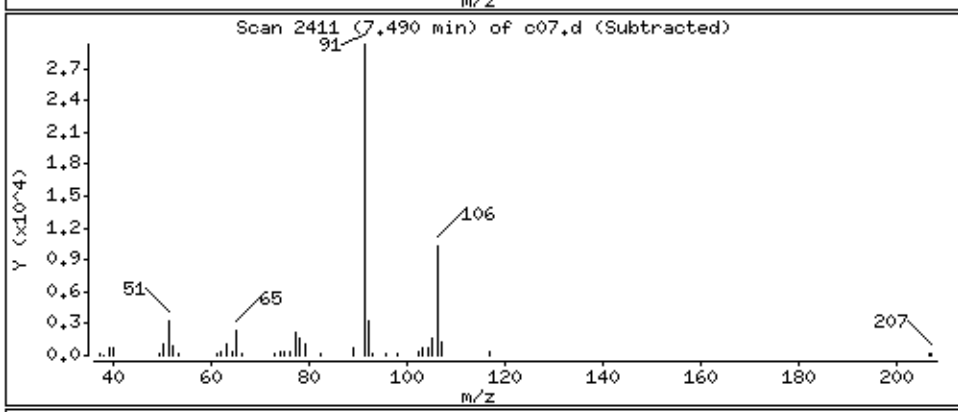
Column diameter: 0.18

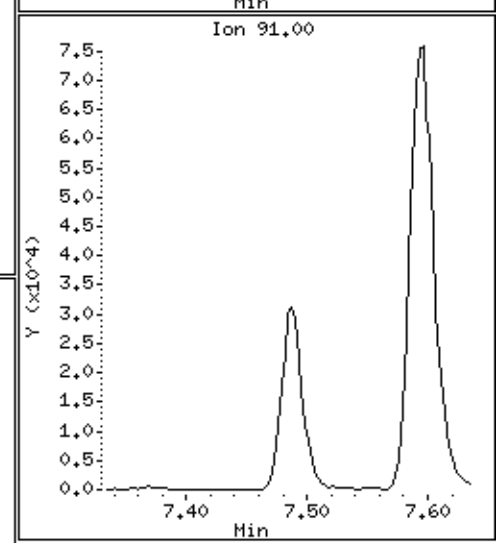
70 Ethylbenzene

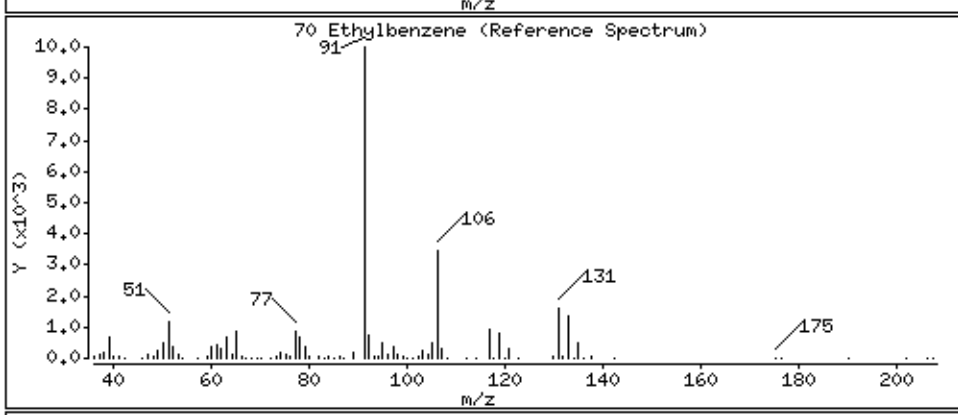
Concentration: 3.96 ppb

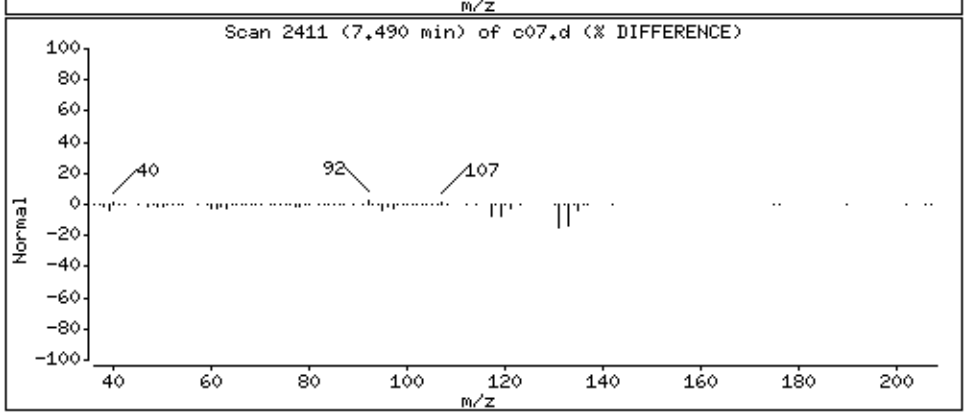












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

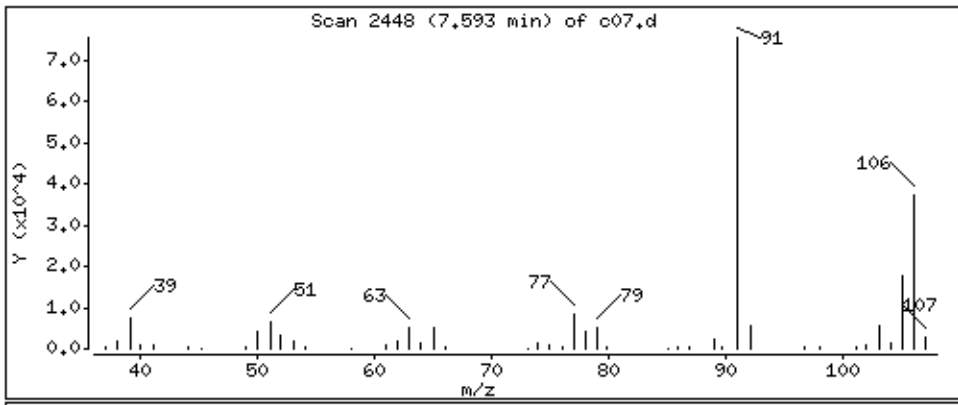
Operator: dae

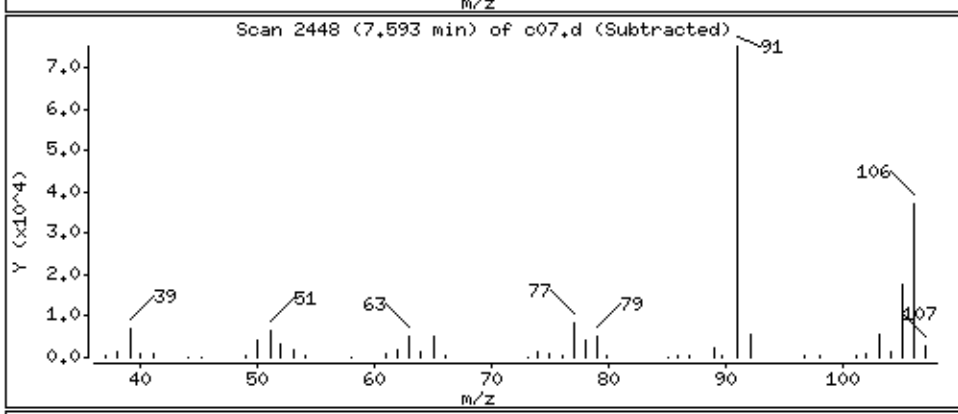
Column phase: DB-624

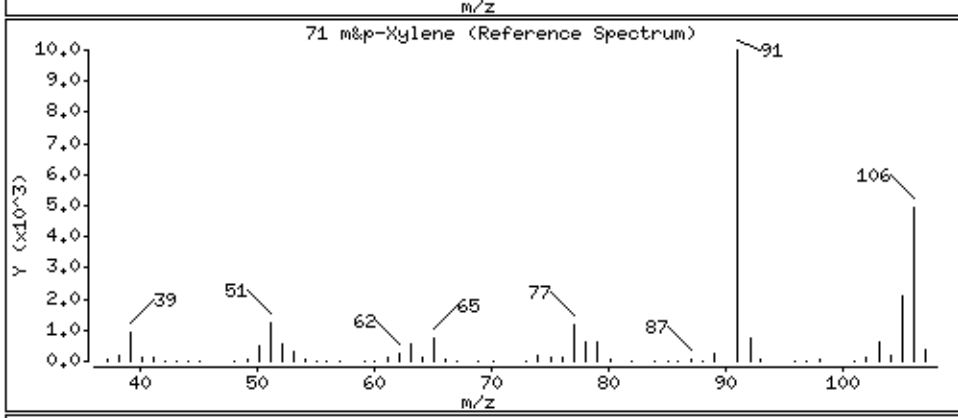
Column diameter: 0.18

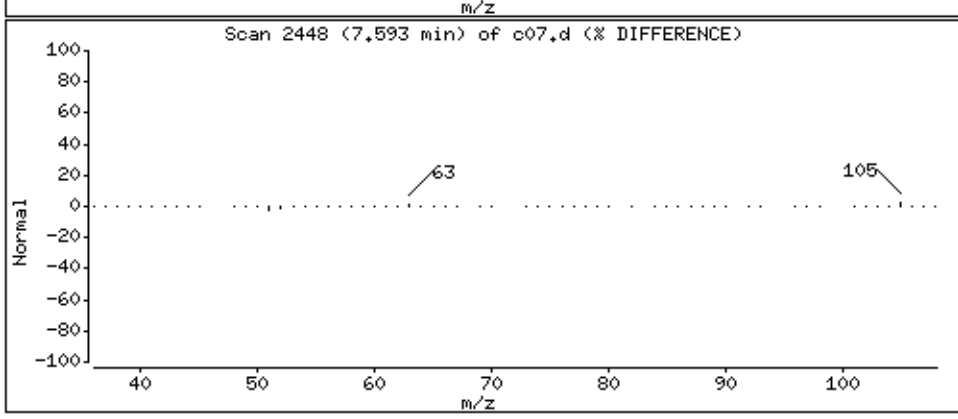
71 m&p-Xylene

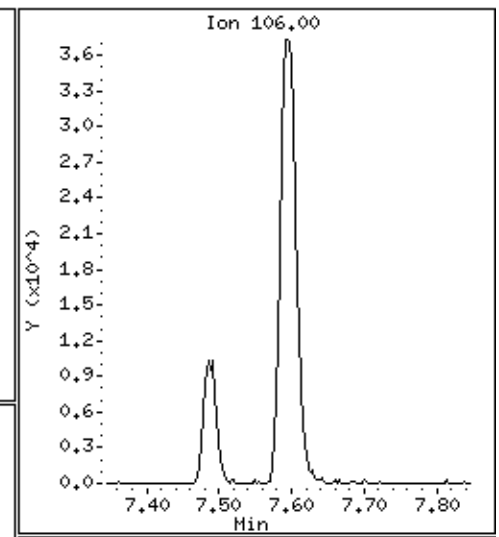
Concentration: 14.6 ppb

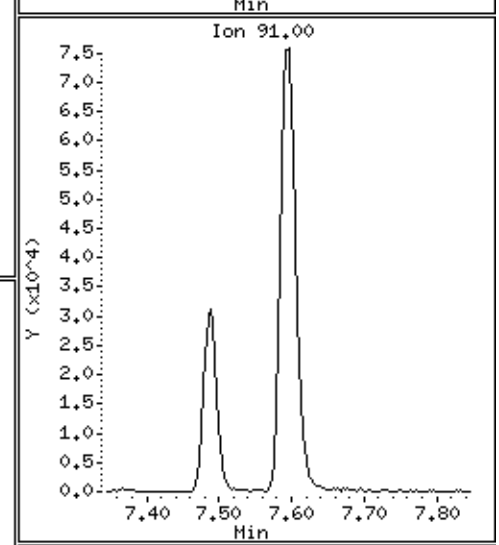


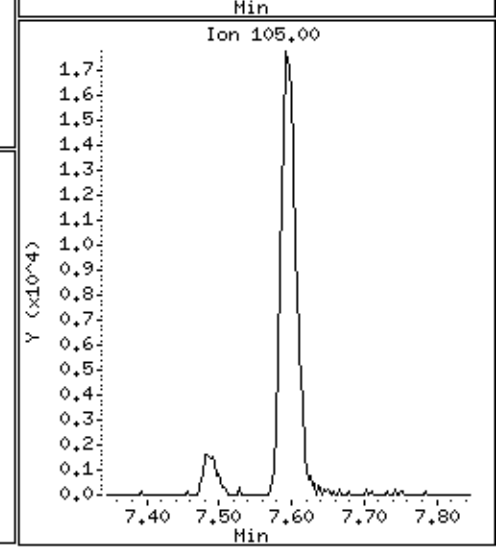












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

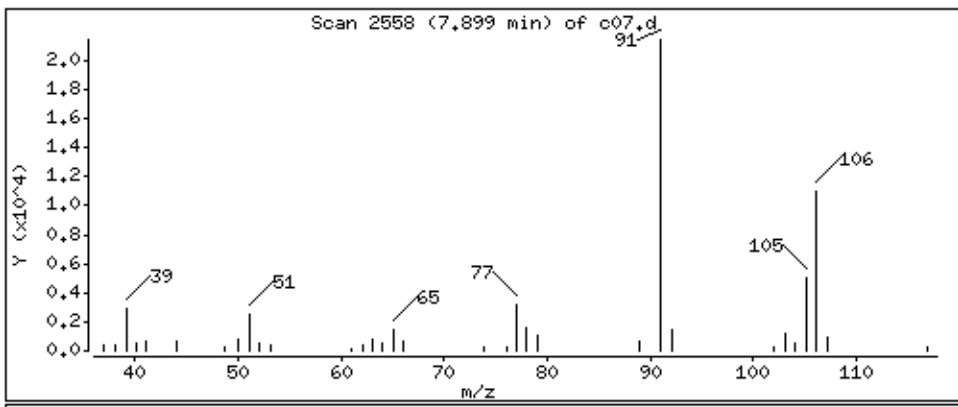
Operator: dae

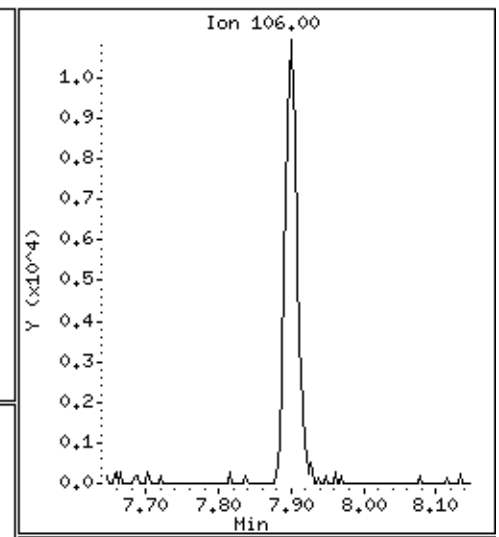
Column phase: DB-624

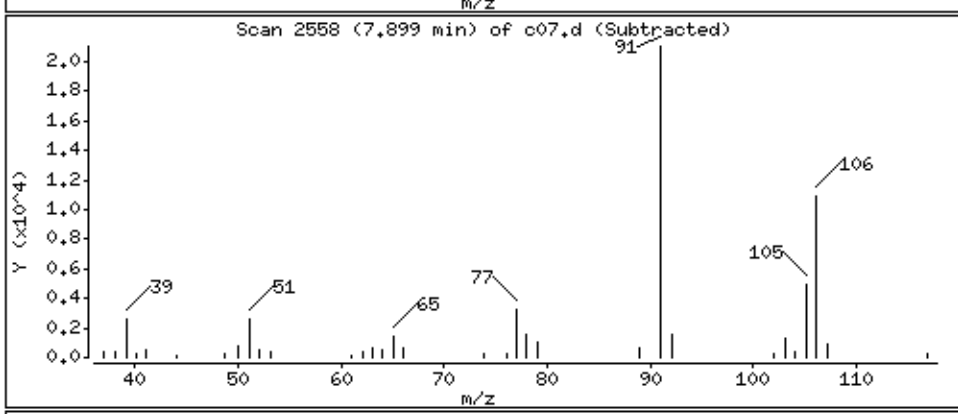
Column diameter: 0.18

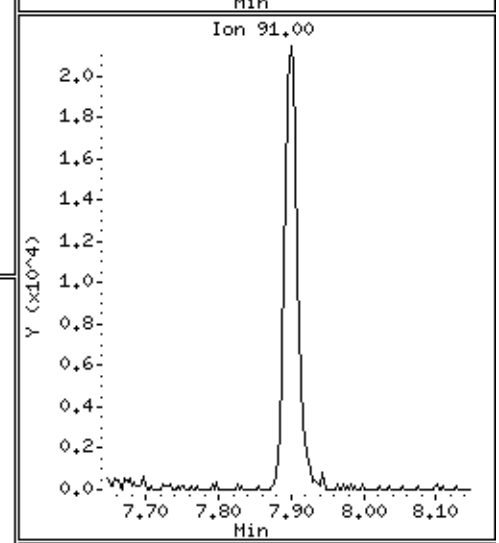
72 o-Xylene

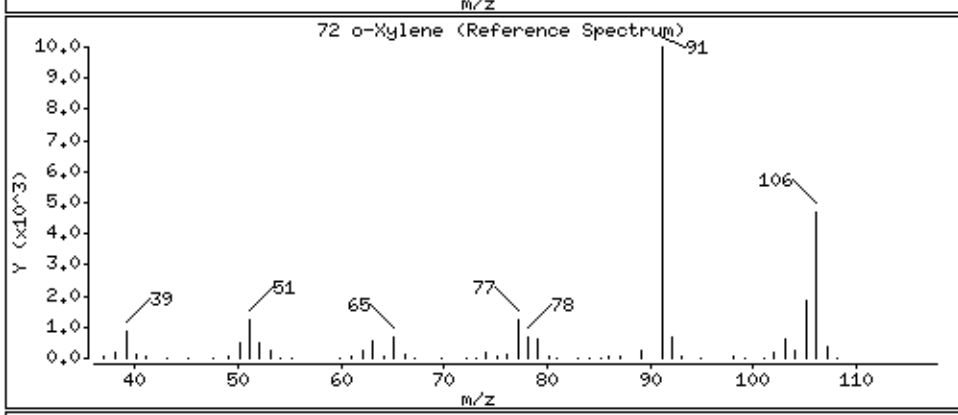
Concentration: 3.50 ppb

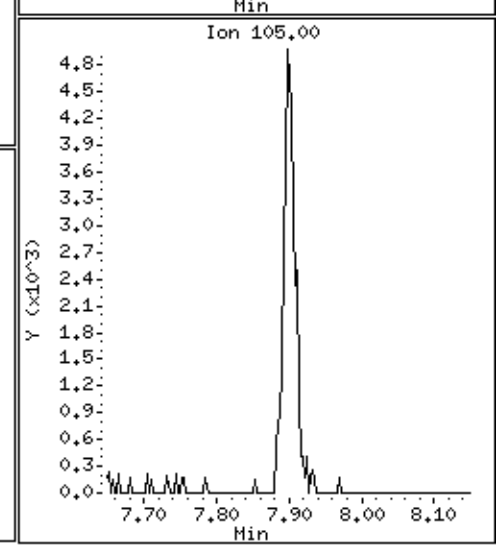


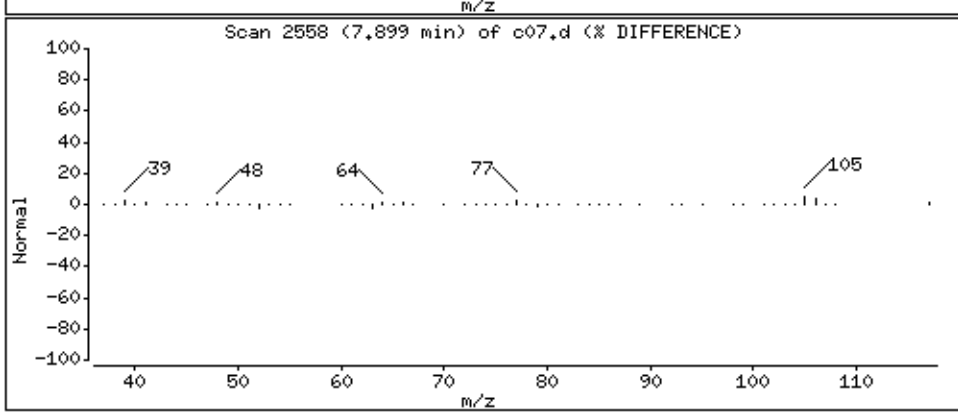












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

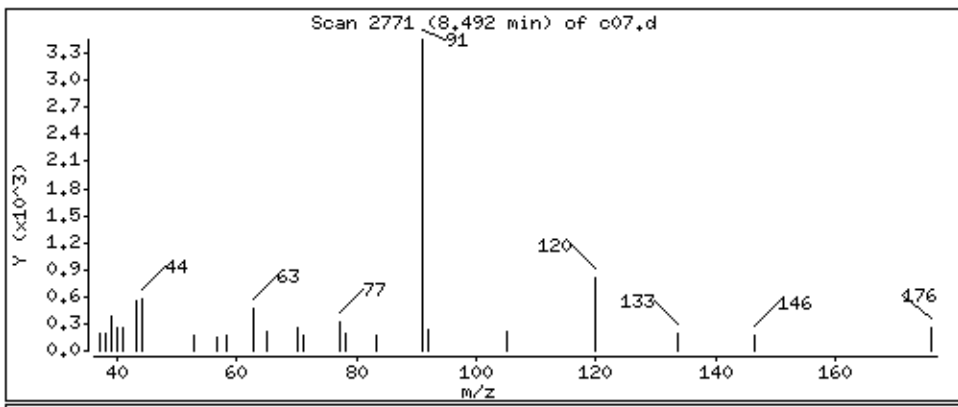
Operator: dae

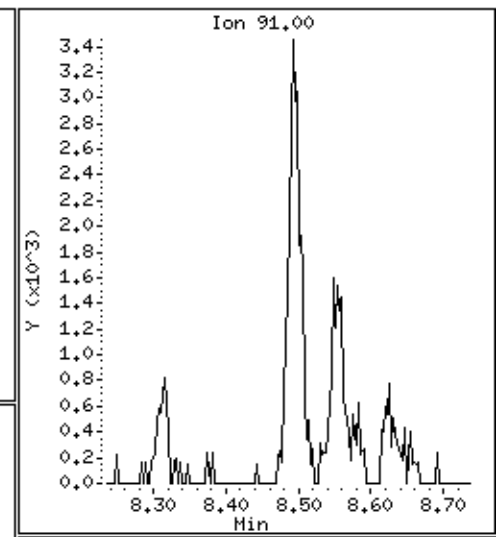
Column phase: DB-624

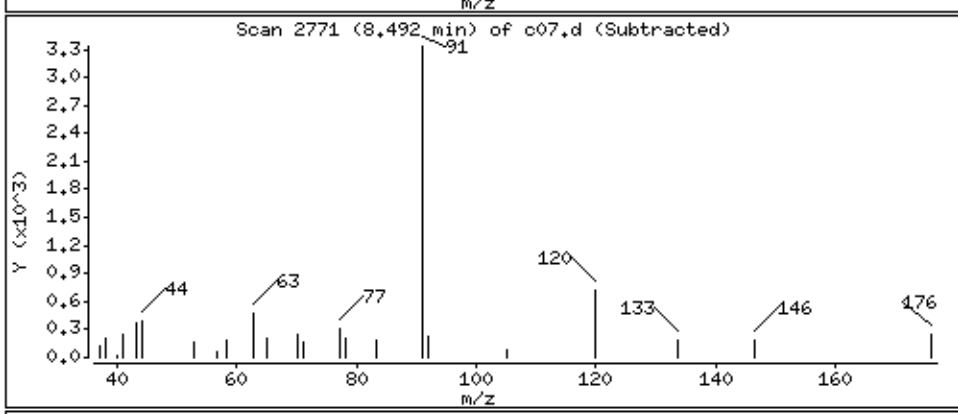
Column diameter: 0.18

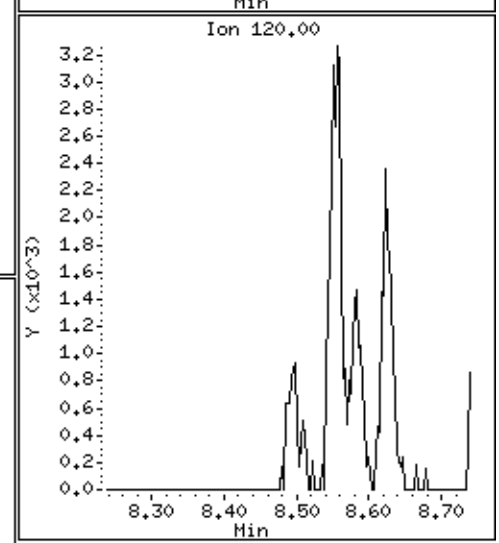
82 n-Propylbenzene

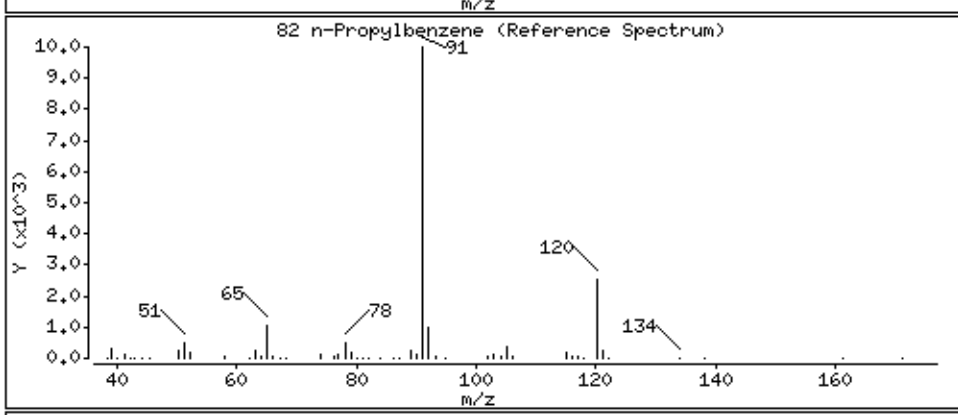
Concentration: 0.472 ppb

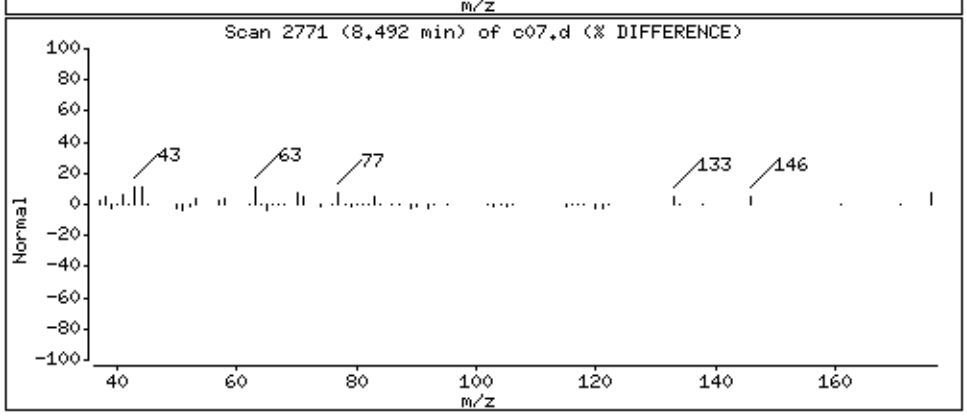












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Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

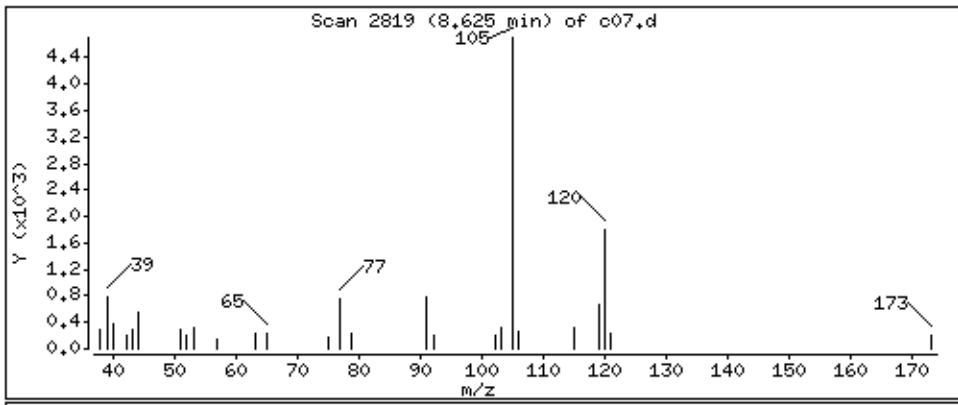
Operator: dae

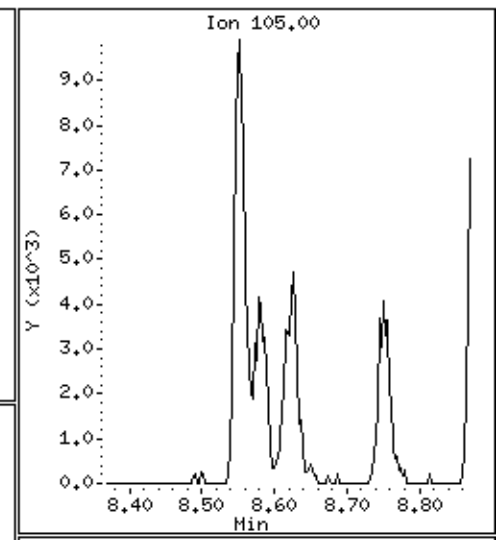
Column phase: DB-624

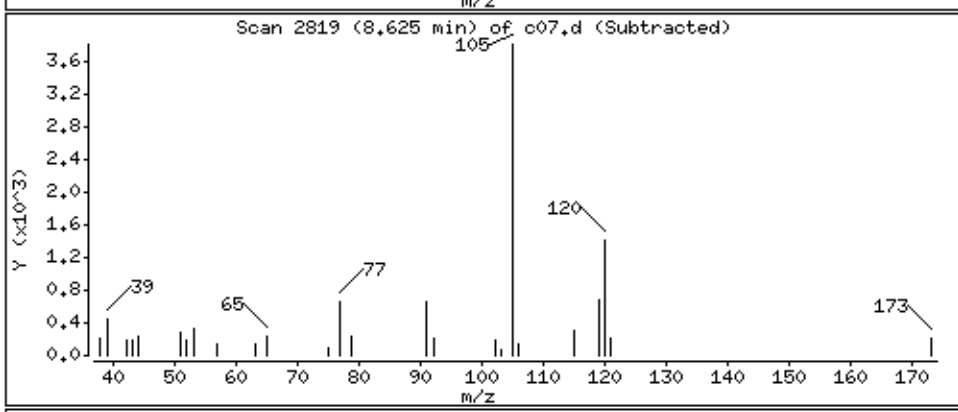
Column diameter: 0.18

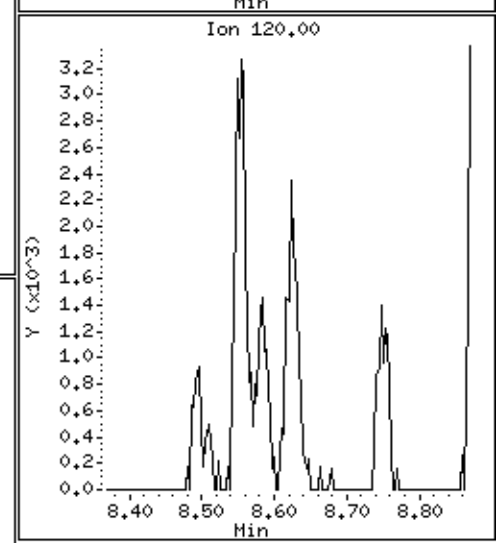
84 1,3,5-Trimethylbenzene

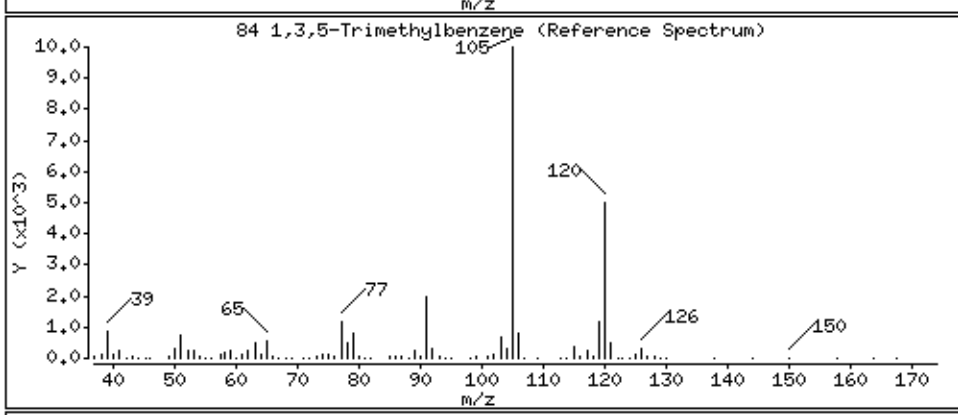
Concentration: 0.897 ppb

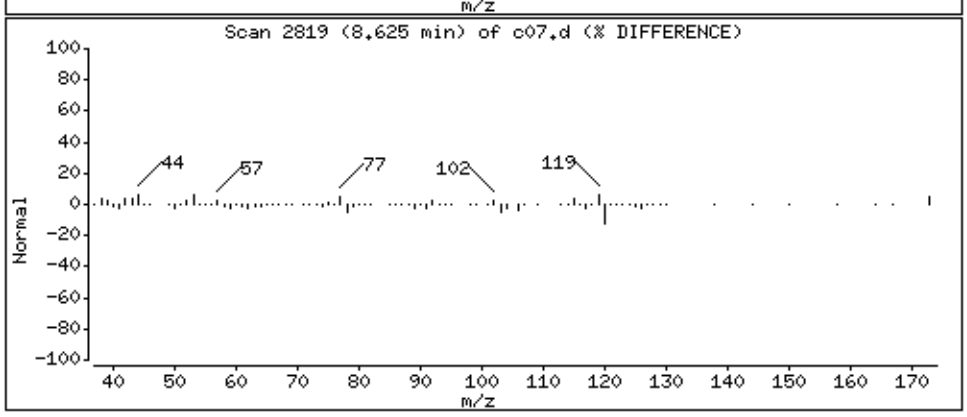












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c07.d

Date : 25-JAN-2017 16:28

Client ID: MW-2

Instrument: 50mv2a.i

Sample Info: 50163373002

Purge Volume: 5.0

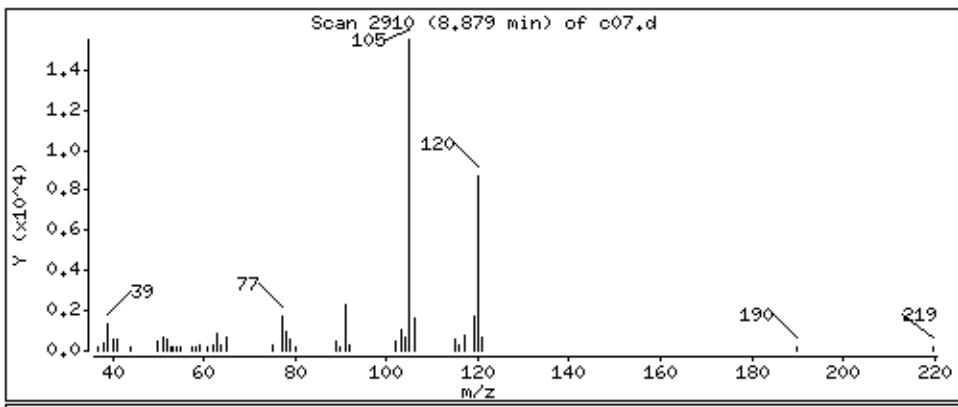
Operator: dae

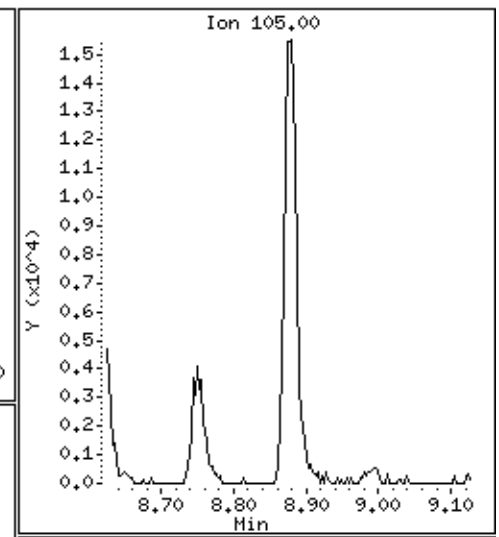
Column phase: DB-624

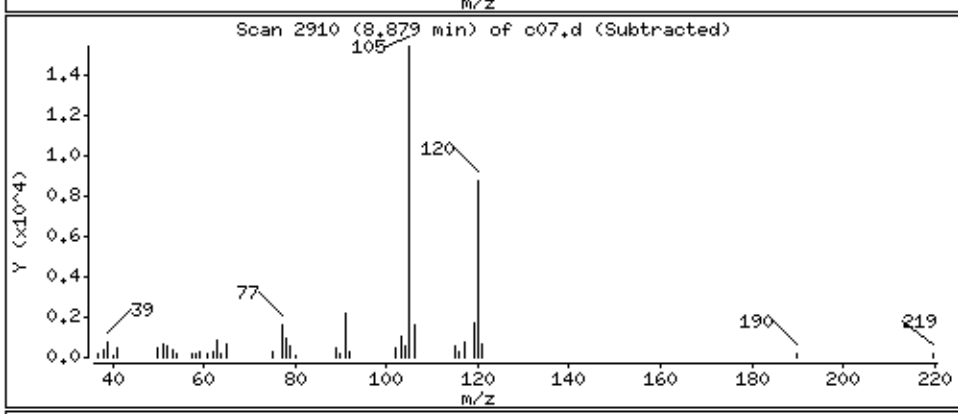
Column diameter: 0.18

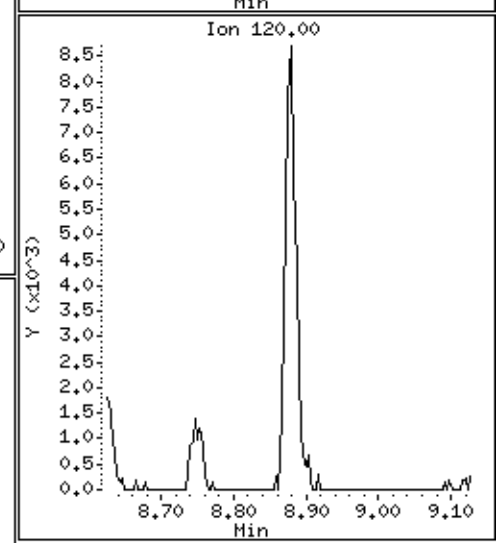
87 1,2,4-Trimethylbenzene

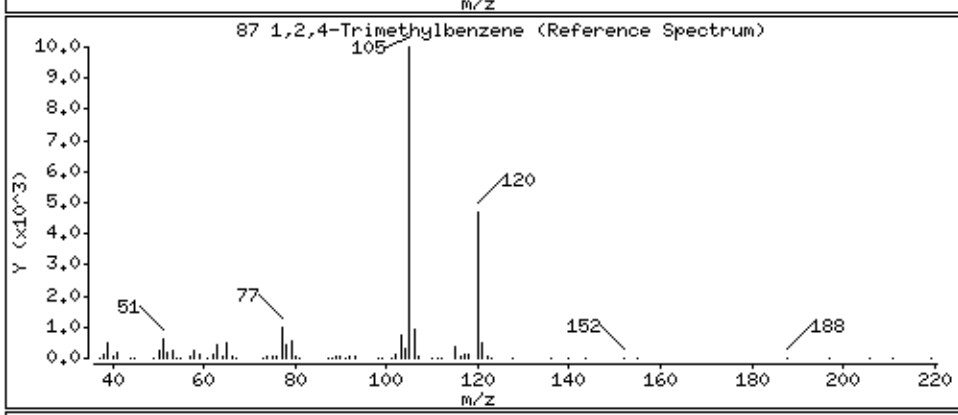
Concentration: 2.58 ppb

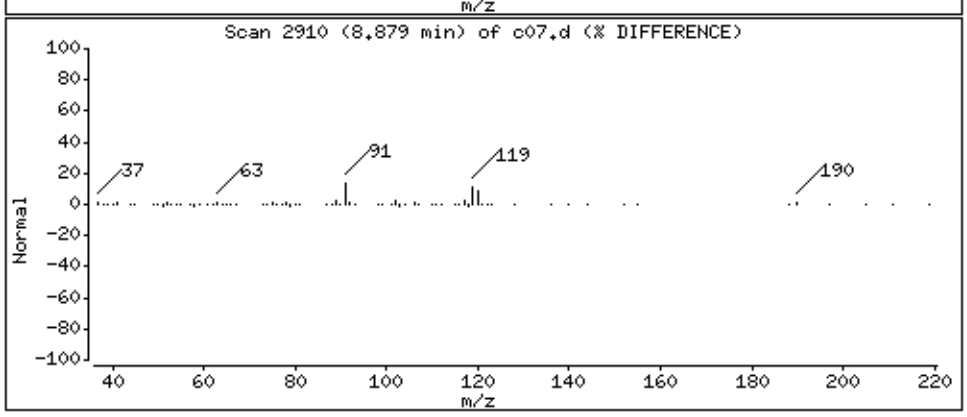












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Injection Date: 25-JAN-2017 16:28
Instrument: 50mv2a.i
Lab Sample ID: 50163373002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-2

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: Quick Shop-S&P Petro

Date Received: 01/20/2017 16:55

Matrix: Water SDG No.: 50163373

Date Extracted: 01/26/2017 02:39

Lab Sample ID: 50163373002

Date Analyzed: 01/26/2017 02:39

Lab File ID: B012517.B\B05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Instrument: 50MV2B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
179601-23-1	m&p-Xylene	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d
Lab Smp Id: 50163373002X1.1 Client Smp ID: 50163373002X1.1
Inj Date : 26-JAN-2017 02:39
Operator : dae Inst ID: 50mv2b.i
Smp Info : 50163373002x1.1
Misc Info : 99148
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012517.b\-b8260_a_c.m
Meth Date : 26-Jan-2017 11:13 50mv2b.i Quant Type: ISTD
Cal Date : 23-JAN-2017 02:01 Cal File: b08cal8.d
Als bottle: 56
Dil Factor: 1.10000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.100	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.563	1.564	(0.383)	16063	21.4451	23.6	
$ 35 Dibromofluoromethane (S)	113	3.247	3.250	(0.796)	51056	53.0675	53.1	
146 n-butyl chloride	56	3.380	3.389	(0.829)	2308	0.83023	0.913(Q)	
42 2,2,4-Trimethylpentane	57	3.839	3.837	(0.941)	6937	2.19048	2.41	
* 44 Fluorobenzene	96	4.079	4.071	(1.000)	176670	50.0000		
$ 55 Toluene-d8	98	5.954	5.949	(0.808)	186159	48.9508	49.0	
56 Toluene	91	6.029	6.024	(0.818)	11371	1.72604	1.90	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	155144	50.0000		
68 Ethylbenzene	106	7.490	7.484	(1.017)	2135	0.90670	0.997(Q)	
69 m&p-Xylene	106	7.595	7.596	(1.031)	7798	2.71443	2.98	
70 o-Xylene	106	7.904	7.896	(1.073)	3285	1.17573	1.29	
$ 74 4-Bromofluorobenzene	95	8.313	8.311	(1.128)	74190	50.0972	50.1	
84 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	6590	1.14797	1.26	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	88699	50.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

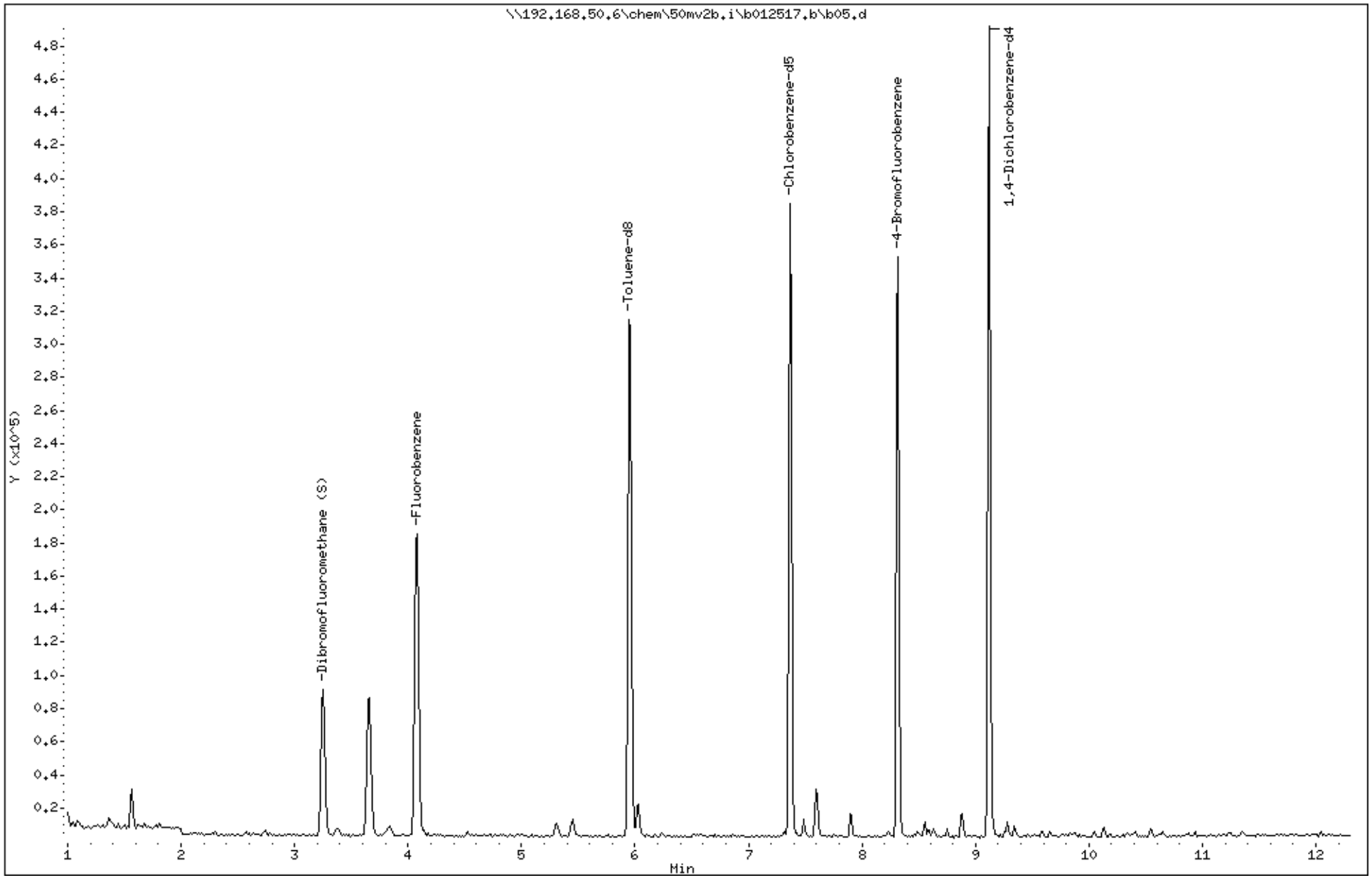
QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d
Date : 26-JAN-2017 02:39
Client ID: 50163373002X1.1
Sample Info: 50163373002X1.1
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

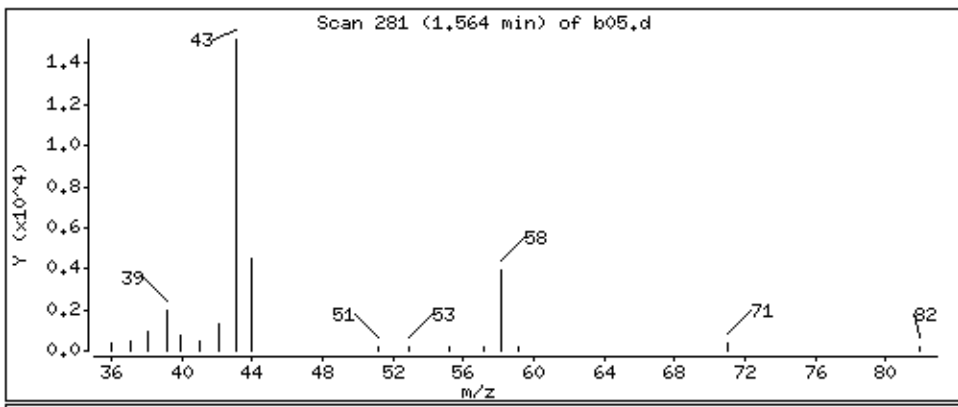
Operator: dae

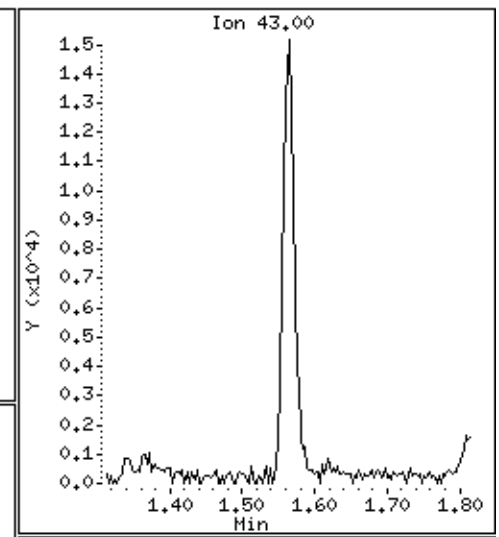
Column phase: DB-624

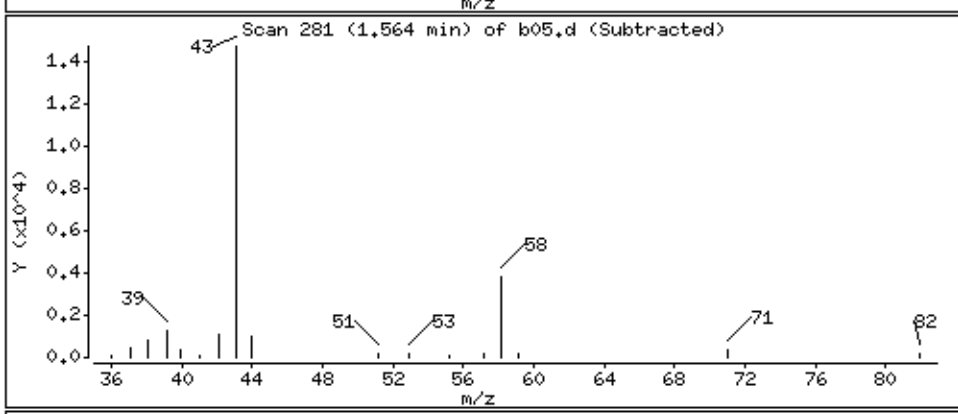
Column diameter: 0.18

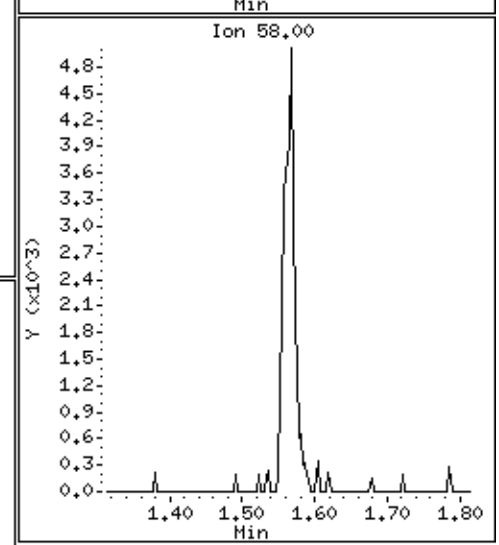
12 Acetone

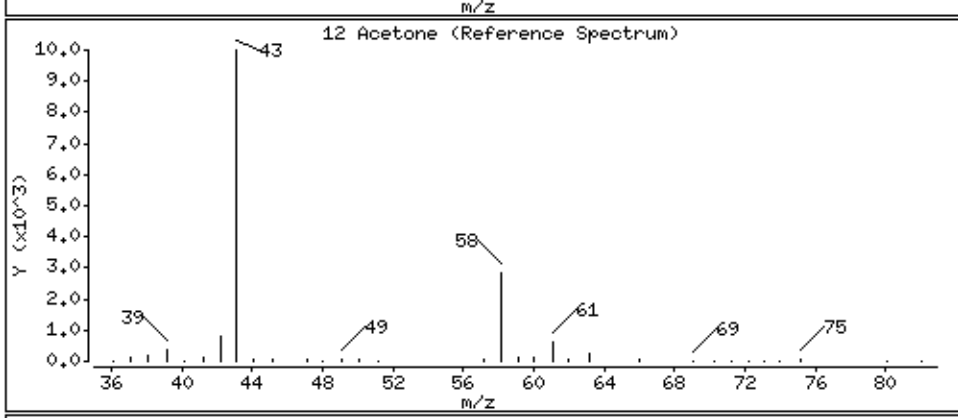
Concentration: 23.6 ppb

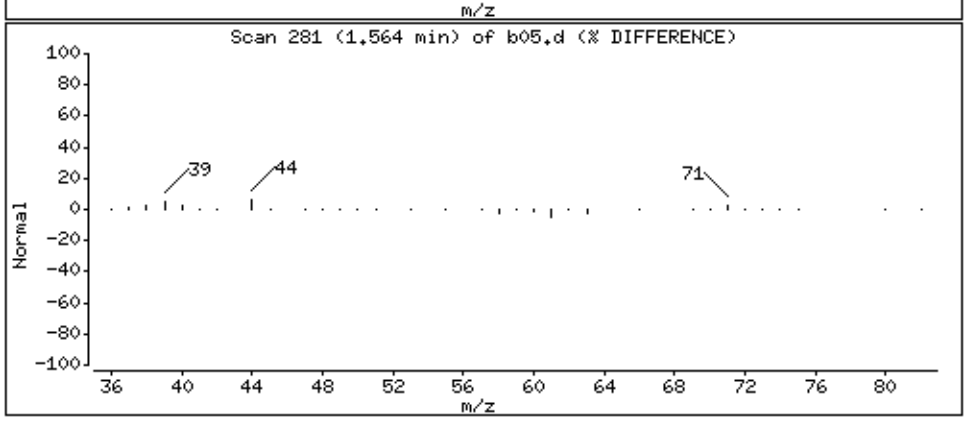












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Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

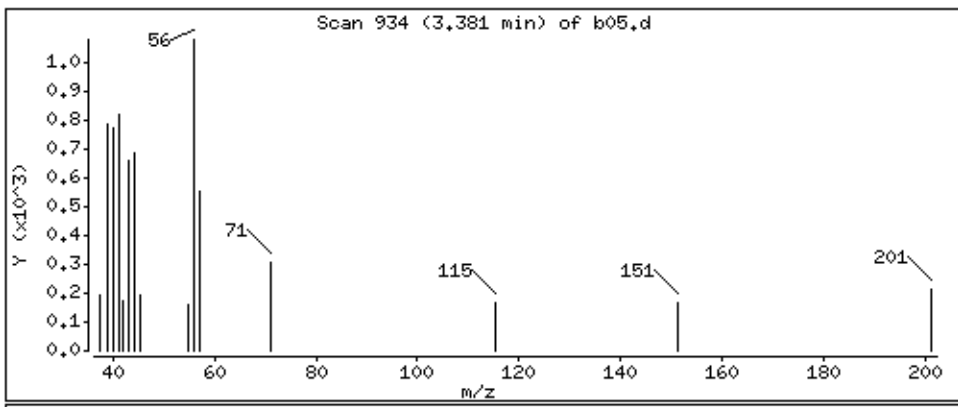
Operator: dae

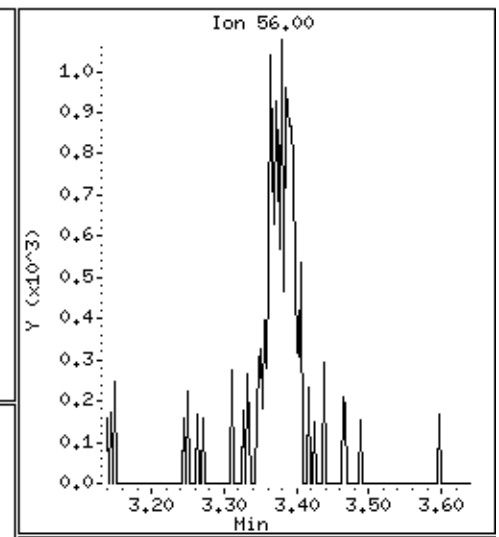
Column phase: DB-624

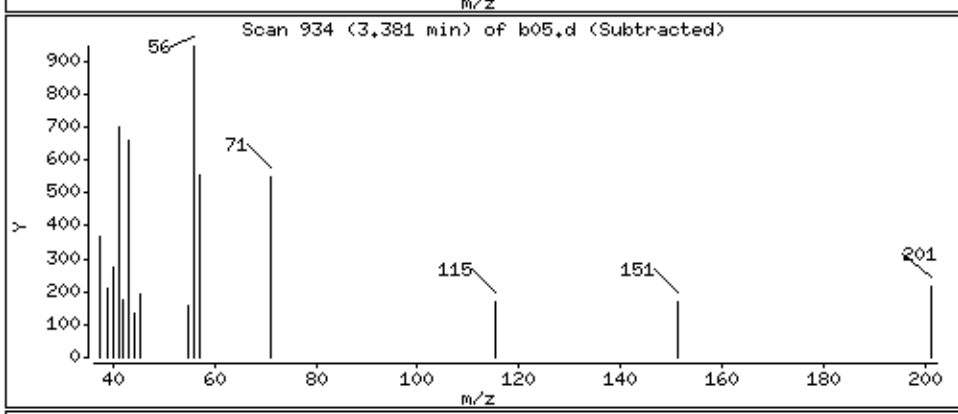
Column diameter: 0.18

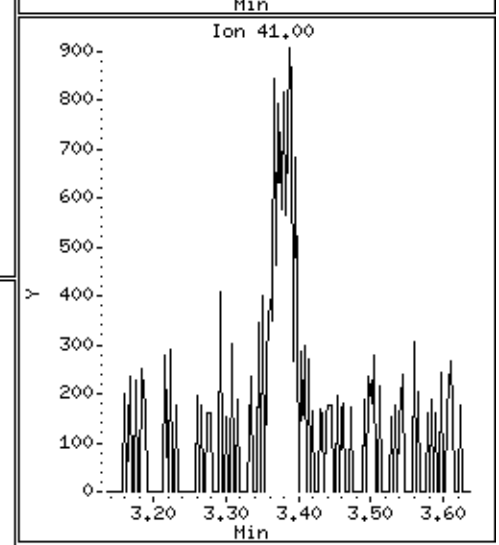
146 n-butyl chloride

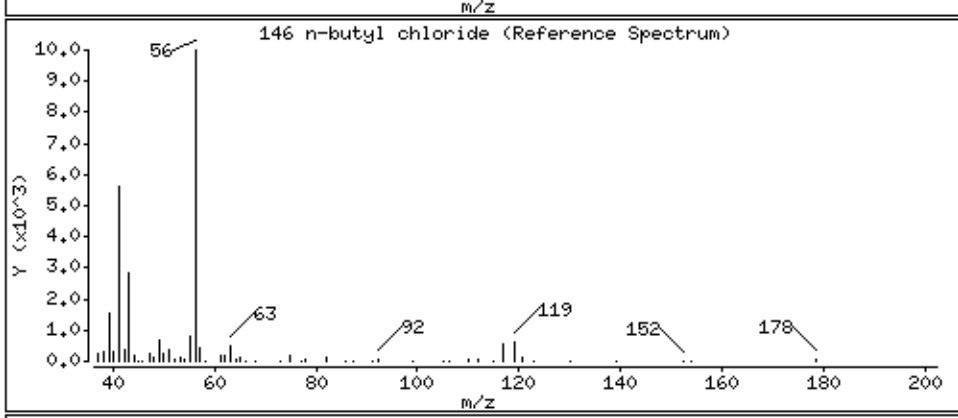
Concentration: 0.913 ppb

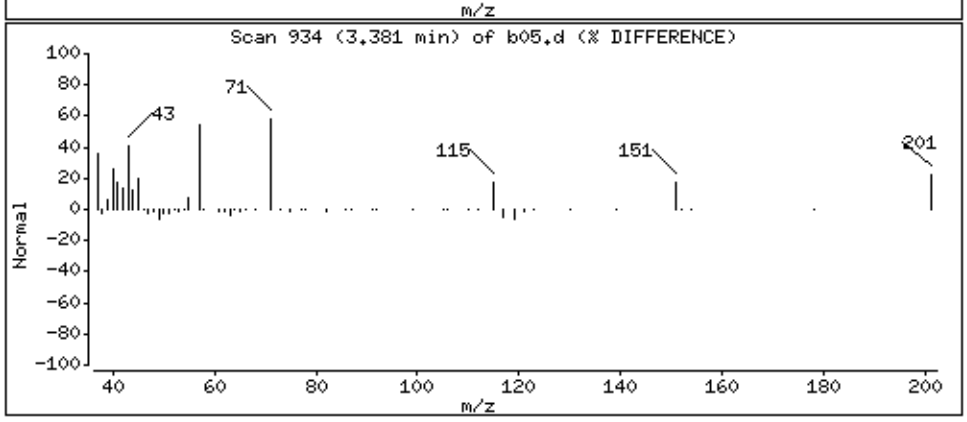












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

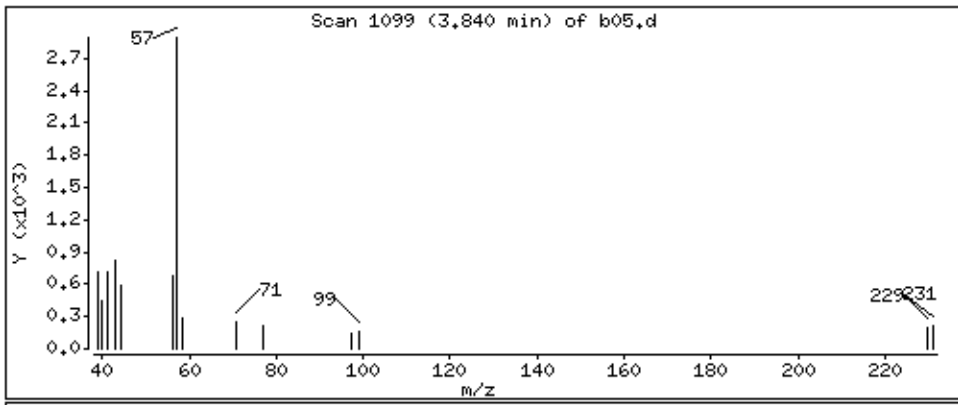
Operator: dae

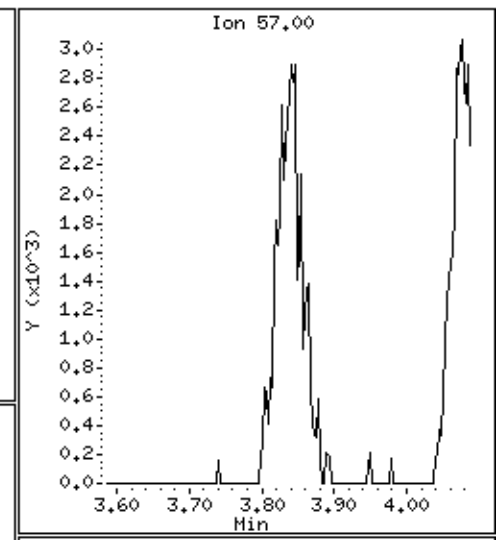
Column phase: DB-624

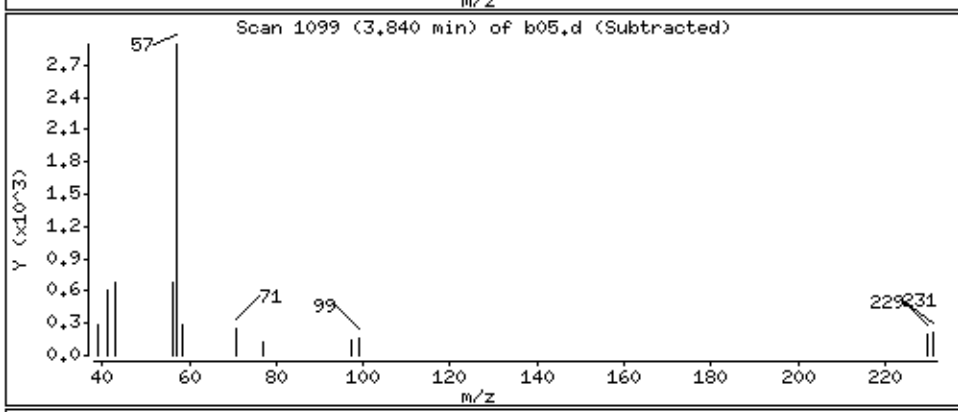
Column diameter: 0.18

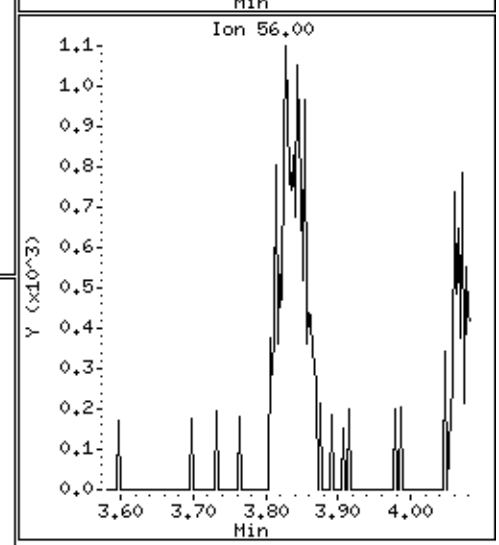
42 2,2,4-Trimethylpentane

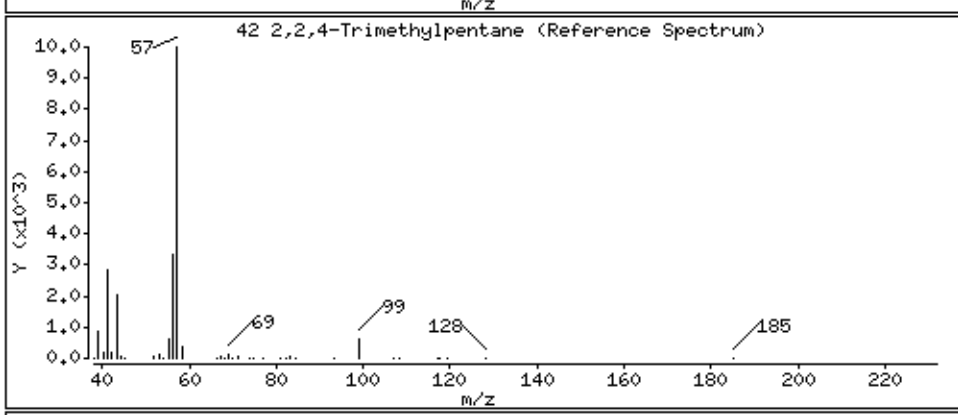
Concentration: 2.41 ppb

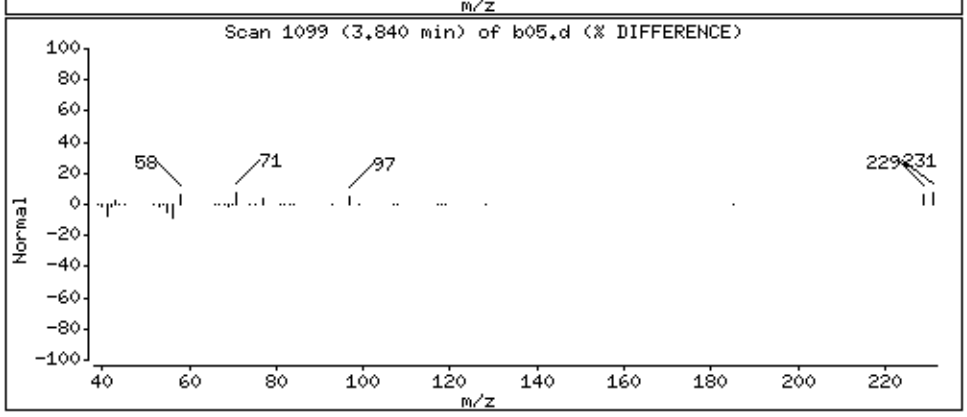












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Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

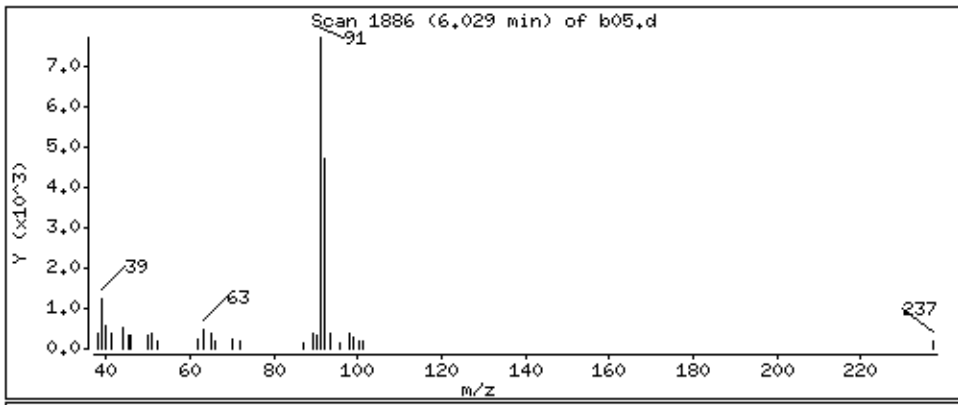
Operator: dae

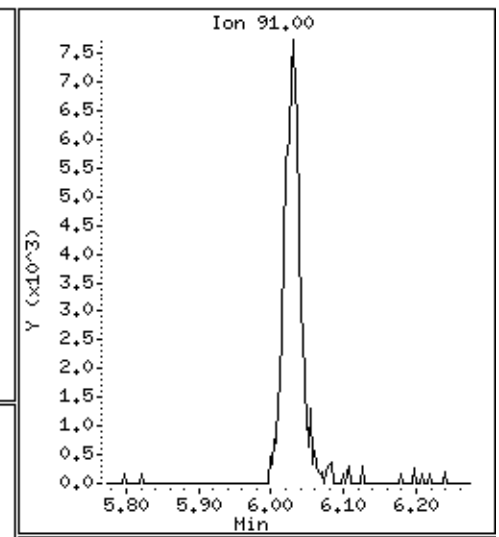
Column phase: DB-624

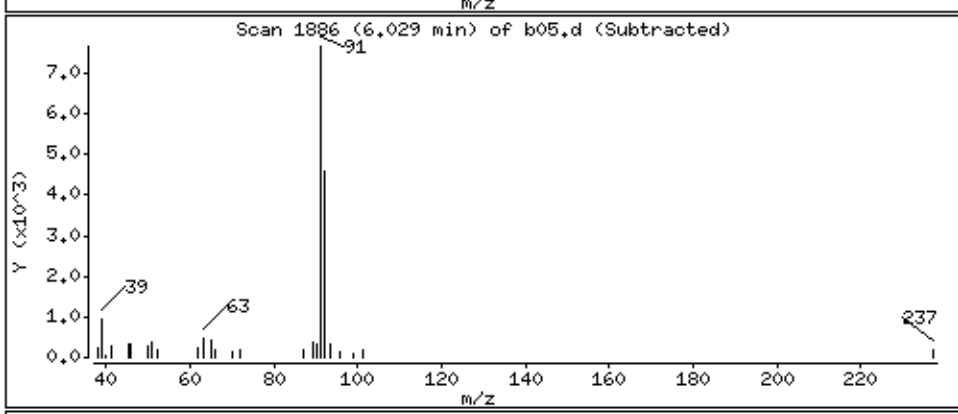
Column diameter: 0.18

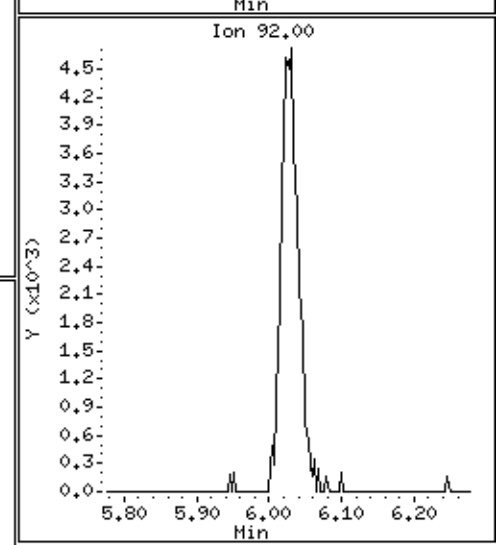
56 Toluene

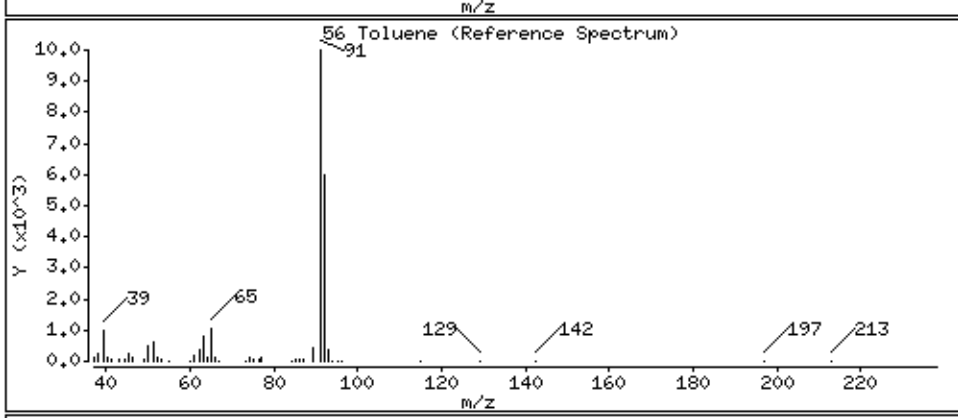
Concentration: 1.90 ppb

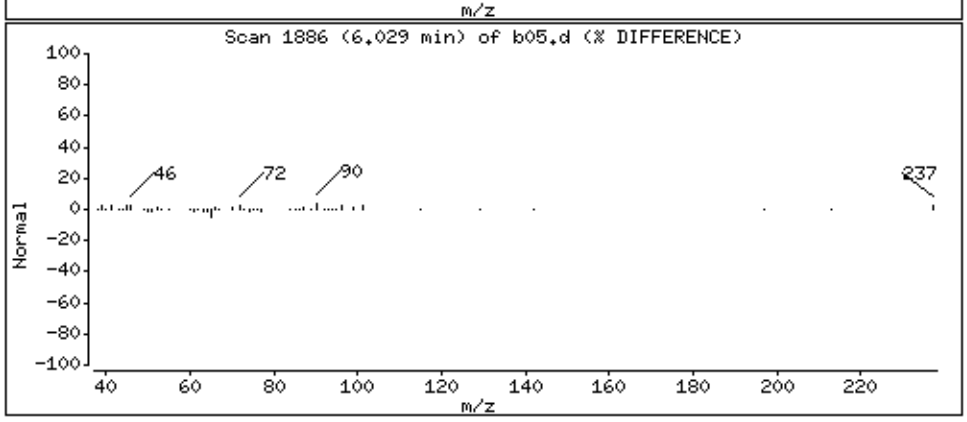












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

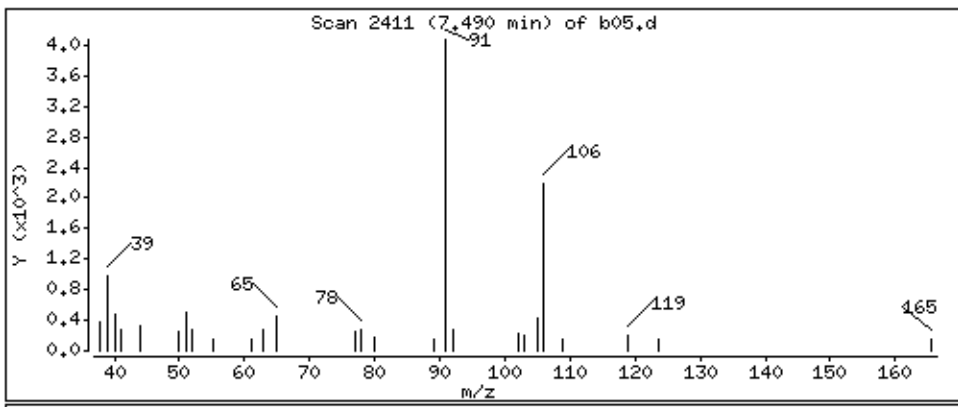
Operator: dae

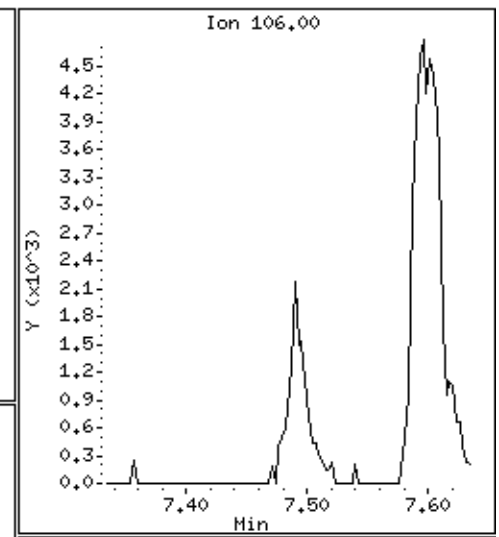
Column phase: DB-624

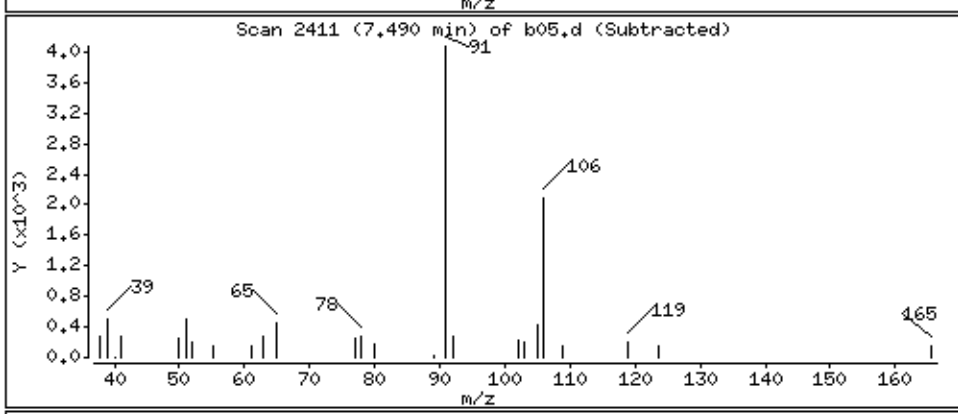
Column diameter: 0.18

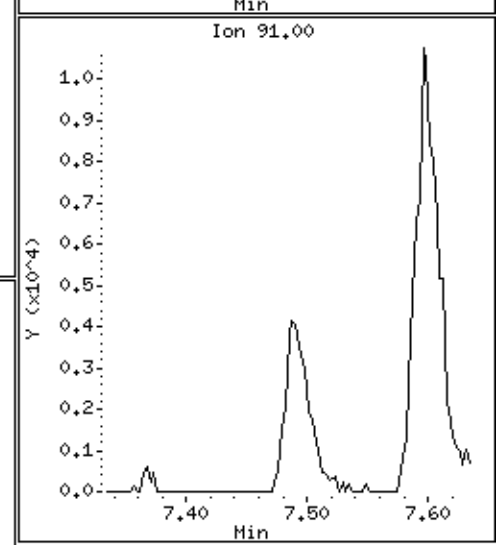
68 Ethylbenzene

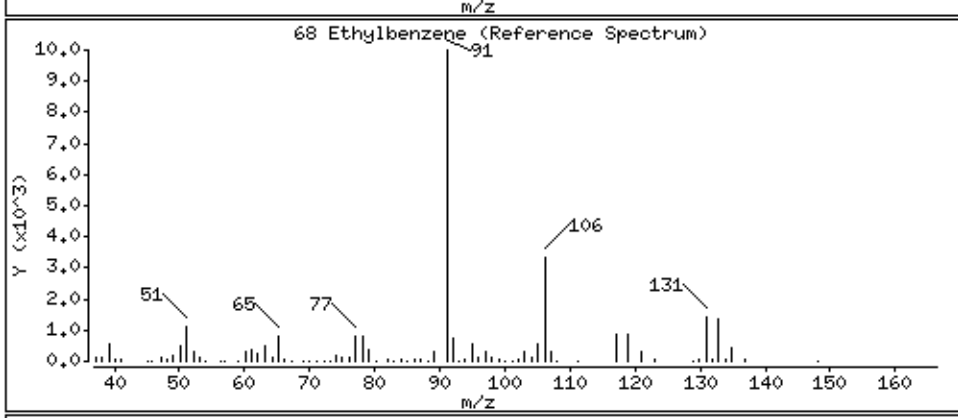
Concentration: 0.997 ppb

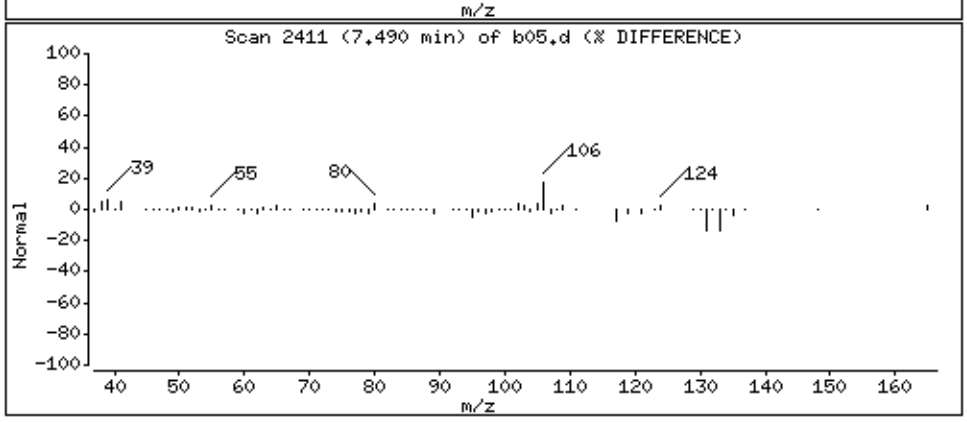












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

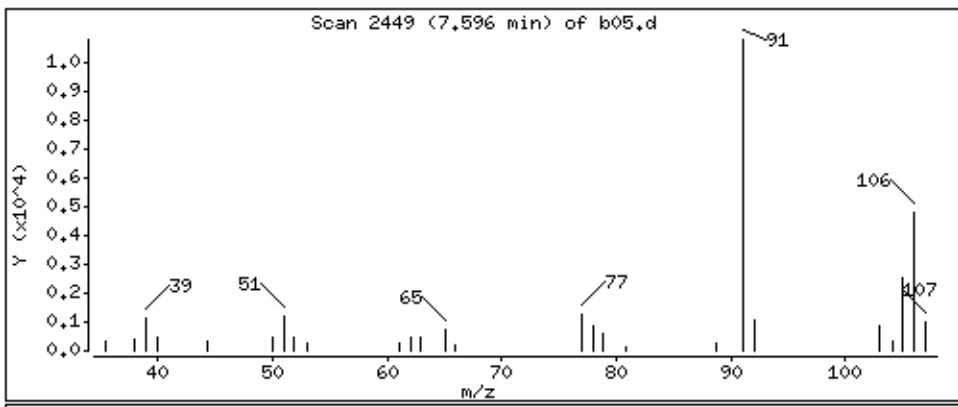
Operator: dae

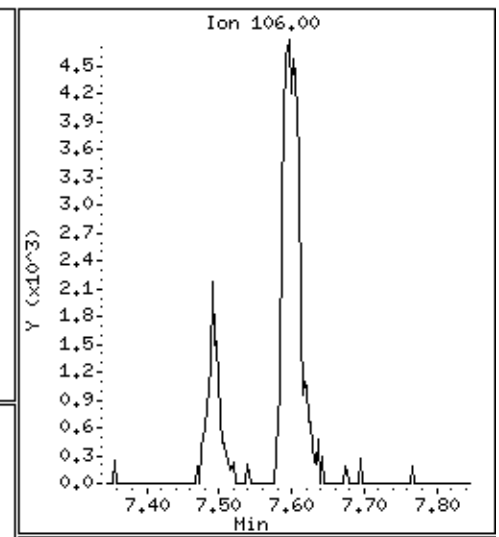
Column phase: DB-624

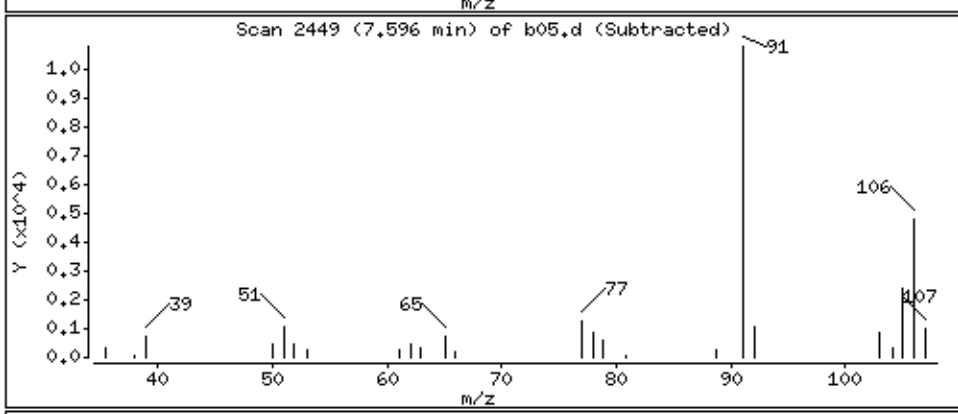
Column diameter: 0.18

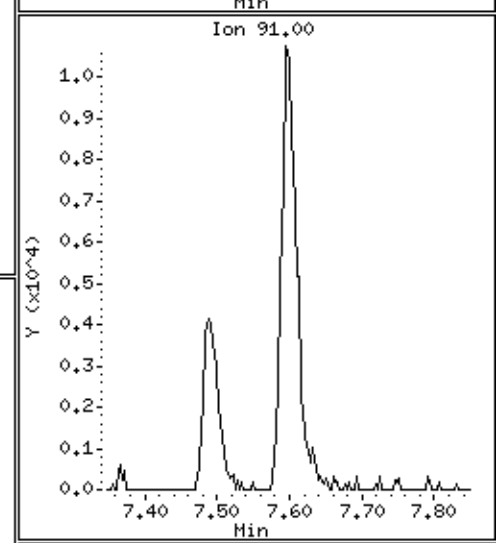
69 m&p-Xylene

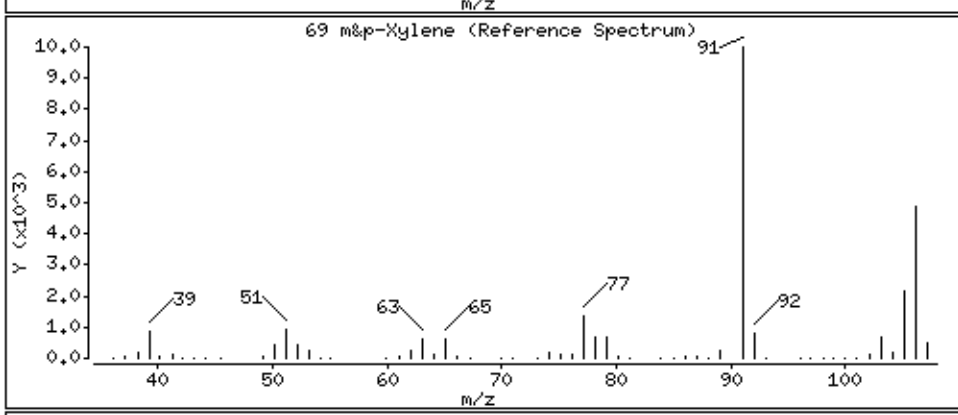
Concentration: 2.98 ppb

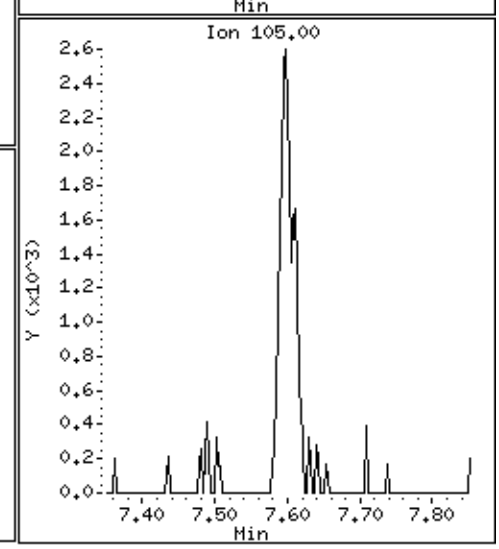


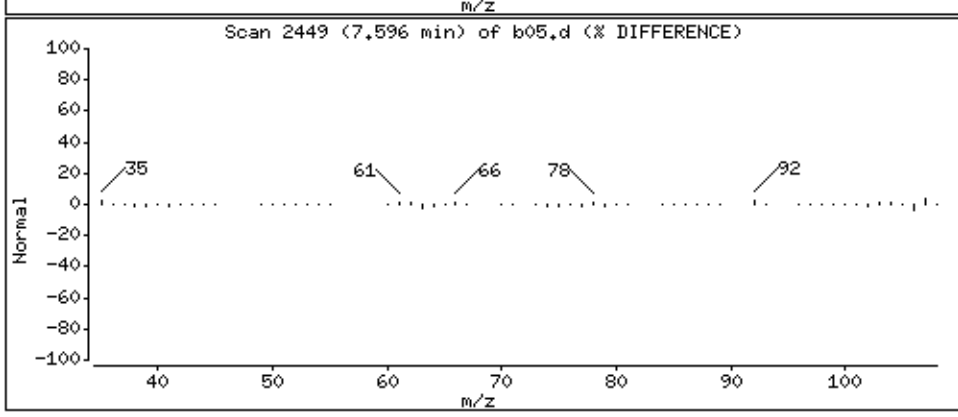












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

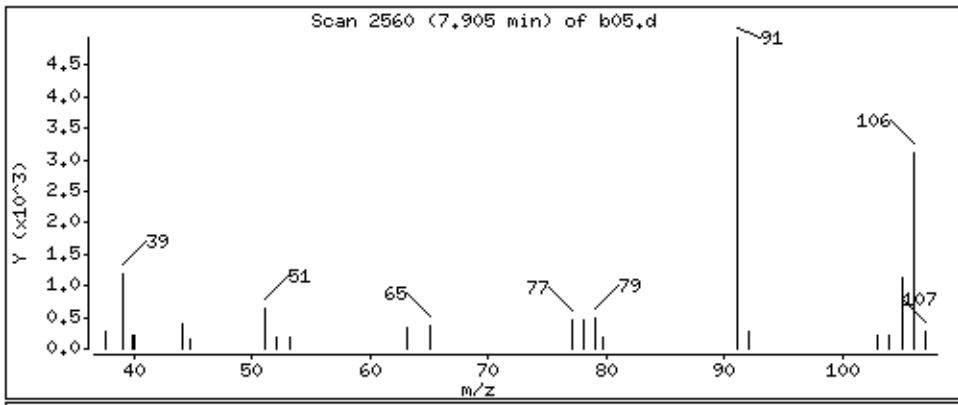
Operator: dae

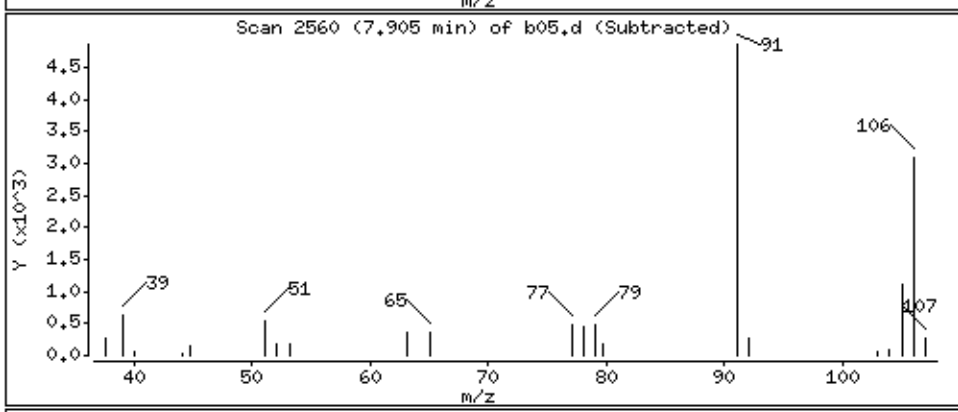
Column phase: DB-624

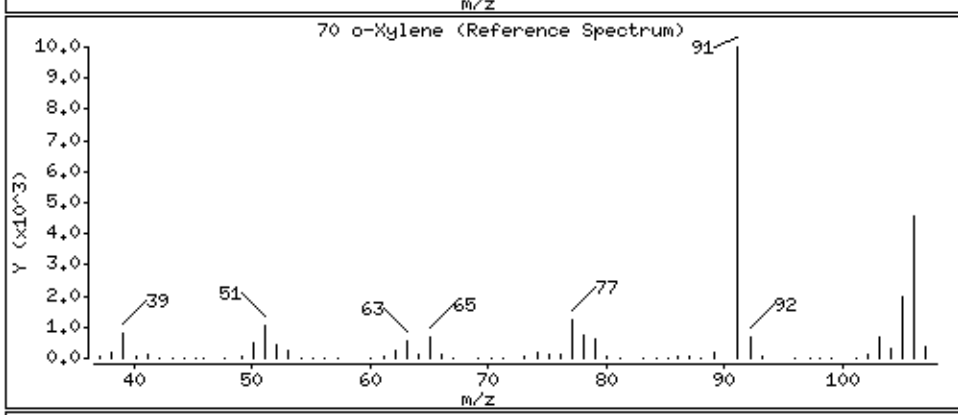
Column diameter: 0.18

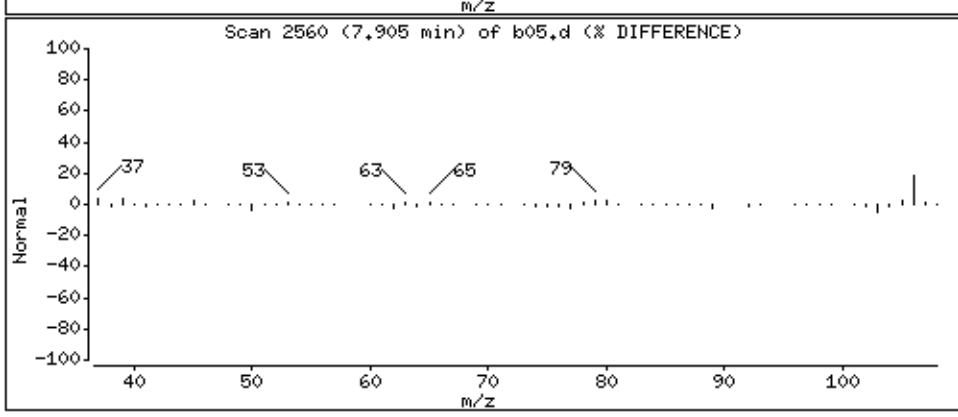
70 o-Xylene

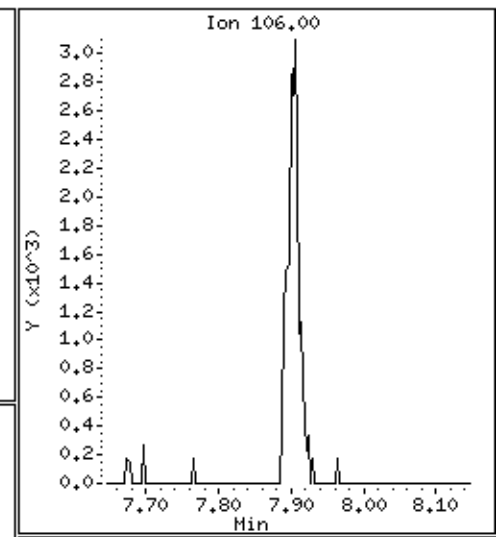
Concentration: 1.29 ppb

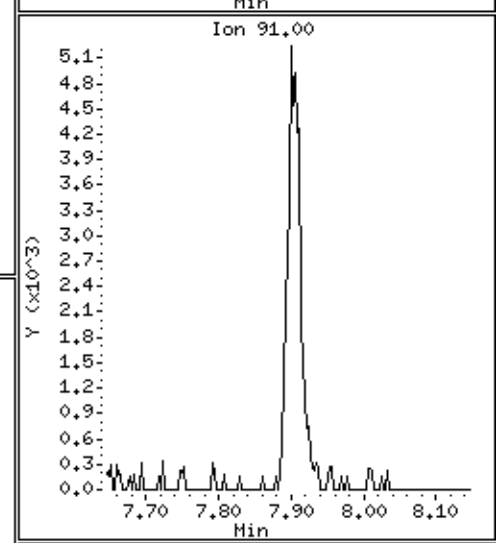


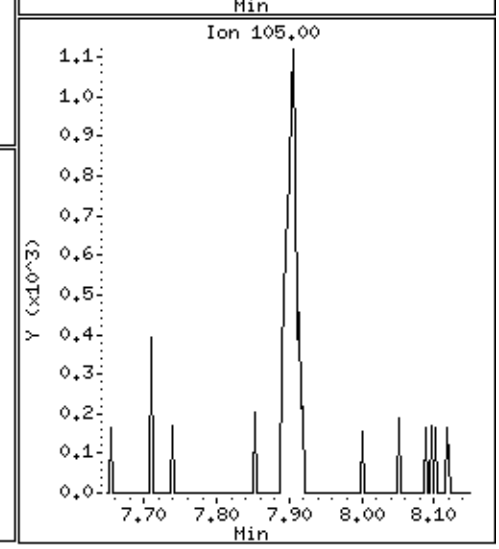












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b05.d

Date : 26-JAN-2017 02:39

Client ID: 50163373002X1.1

Instrument: 50mv2b.i

Sample Info: 50163373002X1.1

Purge Volume: 5.0

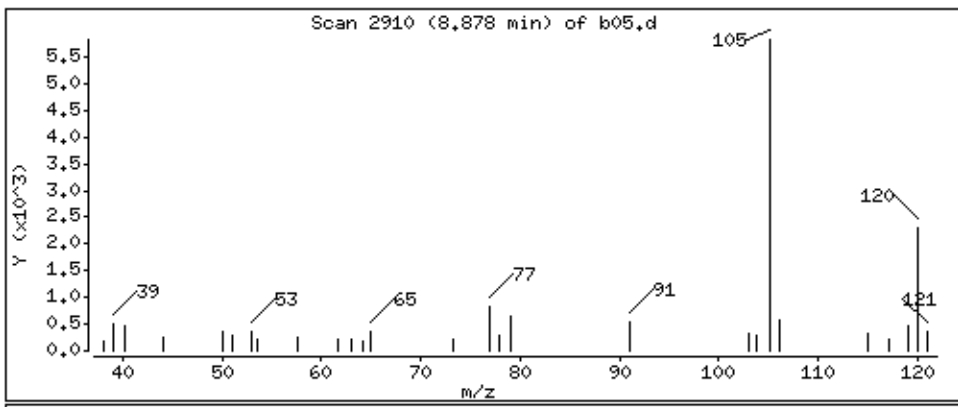
Operator: dae

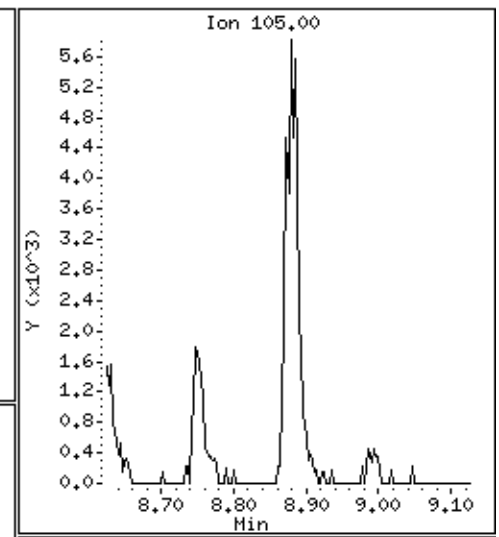
Column phase: DB-624

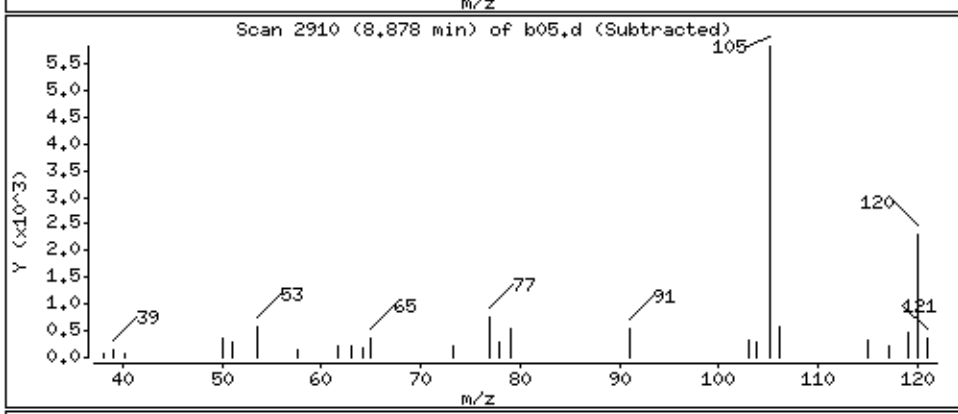
Column diameter: 0.18

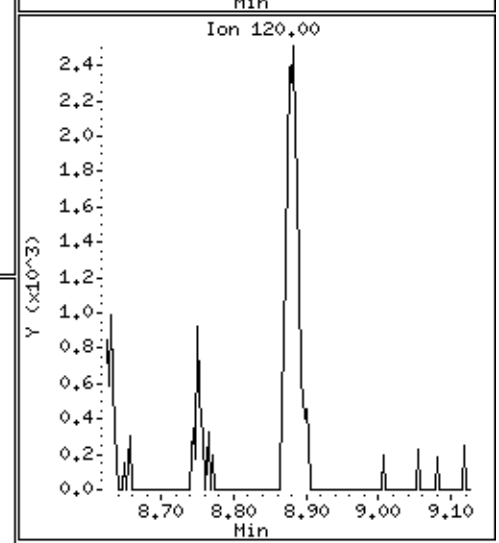
84 1,2,4-Trimethylbenzene

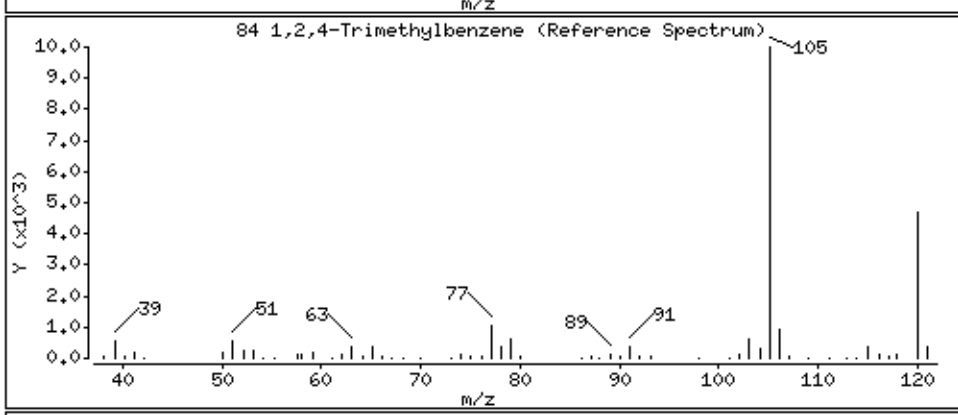
Concentration: 1.26 ppb

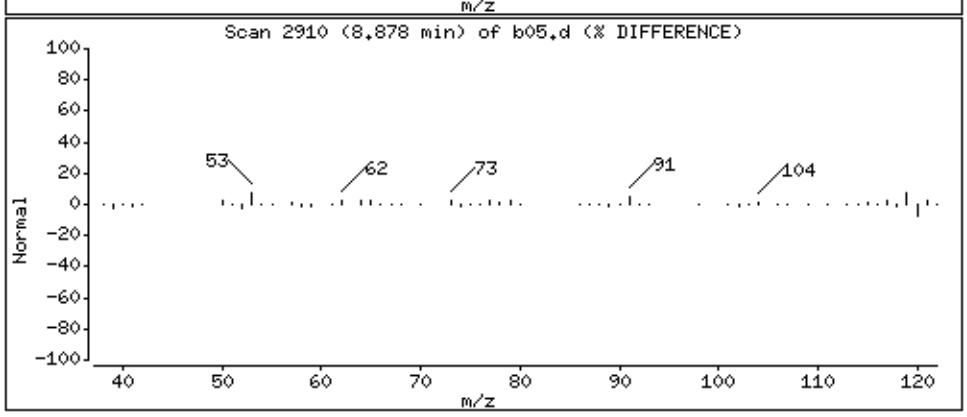












Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b/b05.d
Injection Date: 26-JAN-2017 02:39
Instrument: 50mv2b.i
Lab Sample ID: 50163373002X1.1
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-3

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 18:07
Lab Sample ID: 50163373003
Date Analyzed: 01/25/2017 18:07
Lab File ID: A012417.B\C10.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	5.3	
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

MW-3

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 18:07
Lab Sample ID: 50163373003
Date Analyzed: 01/25/2017 18:07
Lab File ID: A012417.B\C10.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	13.8	
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	7.2	
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	9.0	
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	5.1	
91-20-3	Naphthalene	5.0	
103-65-1	n-Propylbenzene	15.1	
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d
Lab Smp Id: 50163373003 Client Smp ID: MW-3
Inj Date : 25-JAN-2017 18:07
Operator : dae Inst ID: 50mv2a.i
Smp Info : 50163373003
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
9 Acrolein	56	1.488	1.489	(0.366)	1574	4.26797	4.27	
12 Acetone	43	1.555	1.553	(0.382)	14608	15.8632	15.9	
13 Iodomethane	142	1.633	1.625	(0.402)	3655	1.84218	1.84	
19 tert-Butyl Alcohol	59	1.861	1.853	(0.458)	2383	1.96110	1.96(Q)	
21 Methyl-tert-butyl ether	73	1.961	1.964	(0.482)	39164	5.13956	5.14	
$ 36 Dibromofluoromethane (S)	113	3.238	3.239	(0.796)	85661	48.5207	48.5	
38 cyclohexane	56	3.316	3.311	(0.815)	12214	3.04750	3.05	
150 n-butyl chloride	56	3.369	3.378	(0.828)	8919	1.79080	1.79	
41 Benzene	78	3.656	3.653	(0.899)	49952	5.33091	5.33	
43 2,2,4-Trimethylpentane	57	3.825	3.828	(0.940)	19454	3.22798	3.23	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	350032	50.0000		
47 Trichloroethene	95	4.529	4.527	(1.114)	1215	0.52552	0.526(Q)	
48 Methylcyclohexane	55	4.794	4.791	(1.179)	10359	3.81376	3.81(Q)	
50 1,4-Dioxane	88	4.944	4.953	(1.215)	1879	67.6133	67.6	
$ 57 Toluene-d8	98	5.948	5.946	(0.808)	332981	50.5195	50.5	
58 Toluene	91	6.021	6.021	(0.818)	14700	1.58317	1.58	
* 67 Chlorobenzene-d5	117	7.364	7.365	(1.000)	253881	50.0000		
70 Ethylbenzene	106	7.487	7.484	(1.017)	44157	13.7602	13.8	
71 m&p-Xylene	106	7.593	7.596	(1.031)	28075	7.24191	7.24	
72 o-Xylene	106	7.901	7.896	(1.073)	5455	1.52837	1.53	
75 Isopropylbenzene	105	8.182	8.183	(1.111)	65115	7.19965	7.20	
$ 76 4-Bromofluorobenzene	95	8.310	8.313	(1.128)	116256	51.4971	51.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
82 n-Propylbenzene	91	8.489	8.486	(0.931)	138825	15.1147	15.1	
84 1,3,5-Trimethylbenzene	105	8.628	8.620	(0.946)	2792	0.41089	0.411	
87 1,2,4-Trimethylbenzene	105	8.884	8.875	(0.974)	4550	0.64724	0.647	
88 sec-Butylbenzene	105	8.989	8.984	(0.986)	11229	1.35465	1.35	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	126923	50.0000		
93 n-Butylbenzene	91	9.359	9.357	(1.026)	11661	2.03525	2.04	
98 Naphthalene	128	10.536	10.534	(1.155)	39255	5.03789	5.04	
100 2,methyl-naphthalene	142	11.229	11.226	(1.231)	27461	6.24495	6.24	
101 1-Methylnaphthalene	142	11.351	11.346	(1.245)	35029	8.98801	8.99	

QC Flag Legend

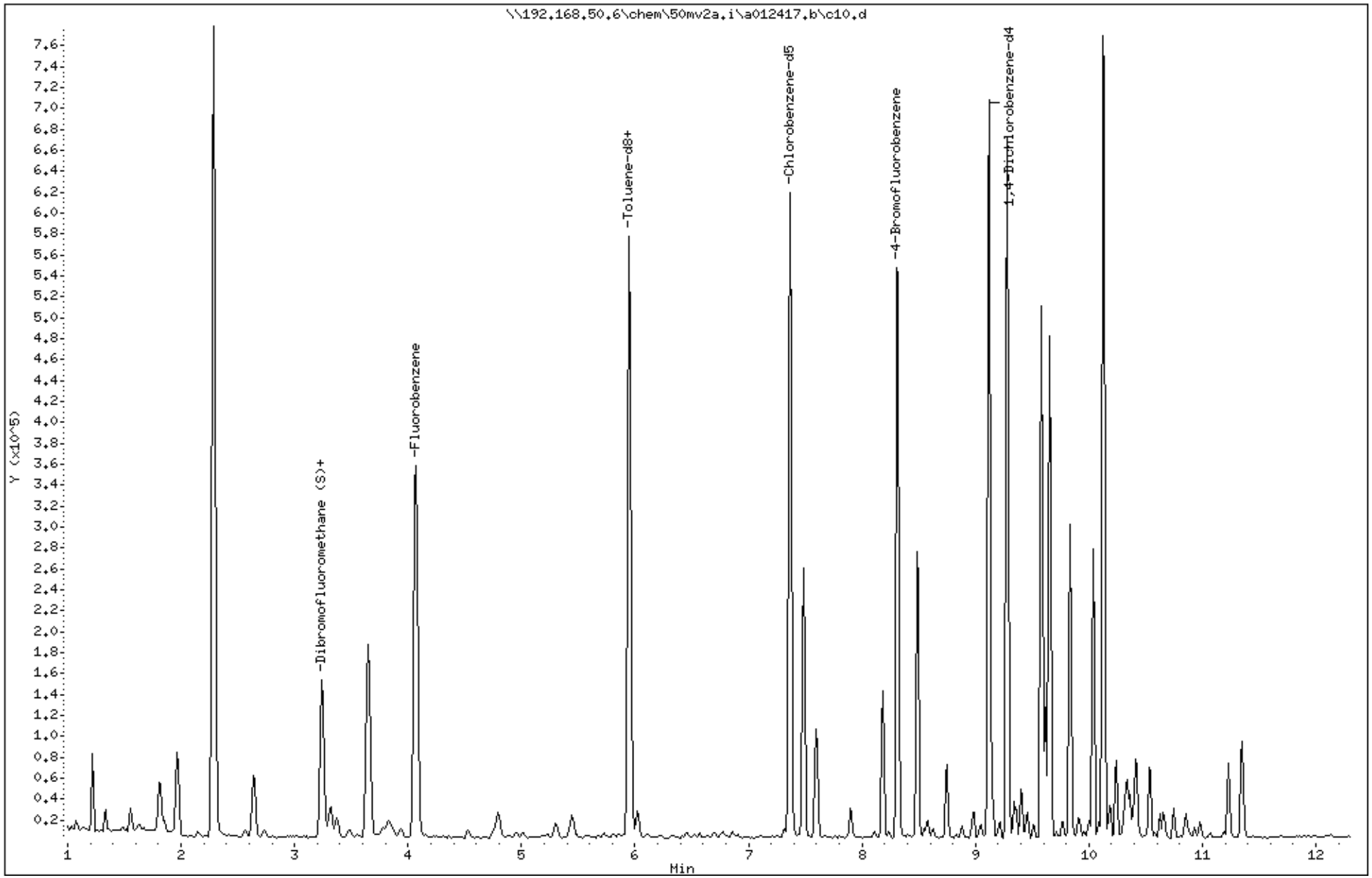
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d
Date : 25-JAN-2017 18:07
Client ID: MW-3
Sample Info: 50163373003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

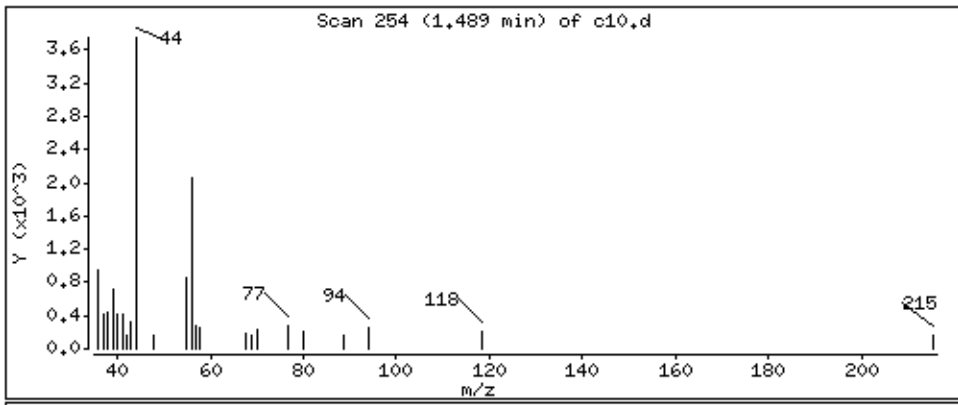
Operator: dae

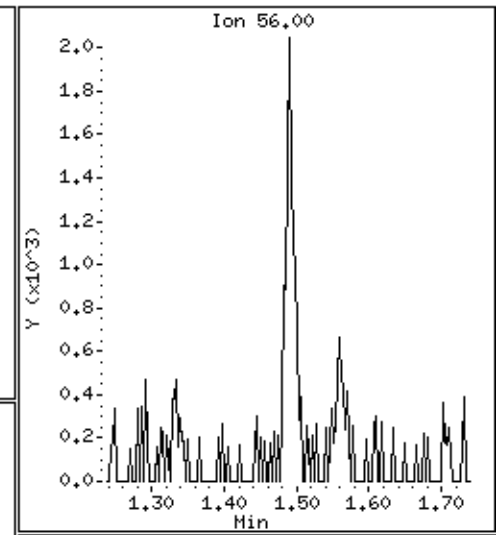
Column phase: DB-624

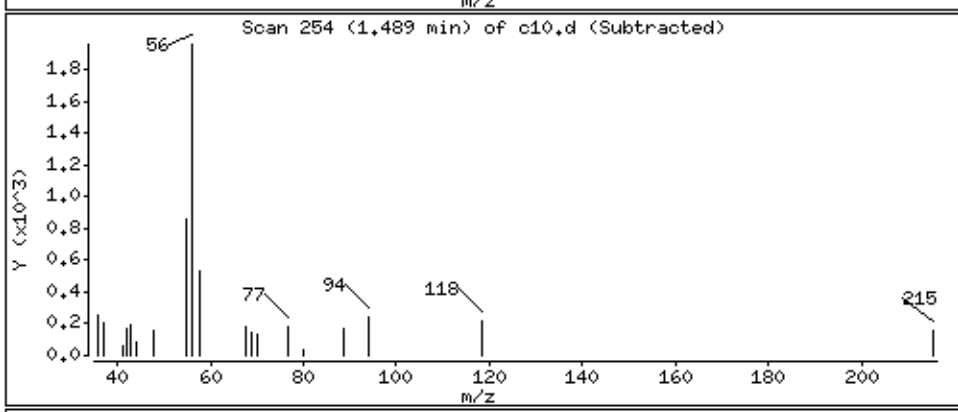
Column diameter: 0.18

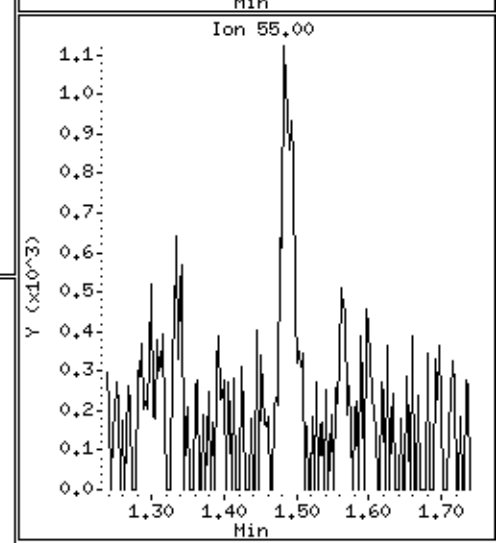
9 Acrolein

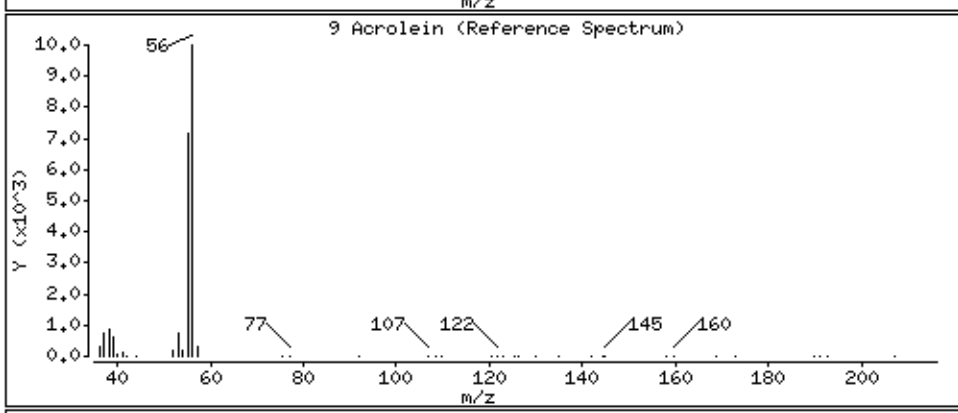
Concentration: 4.27 ppb

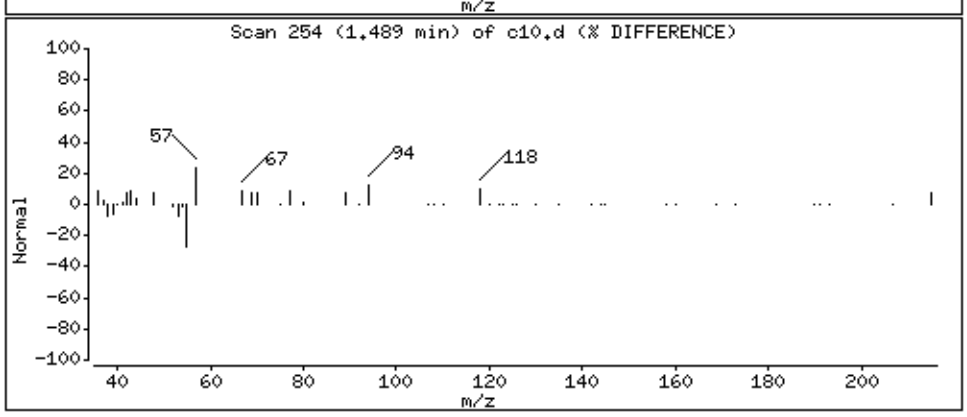












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

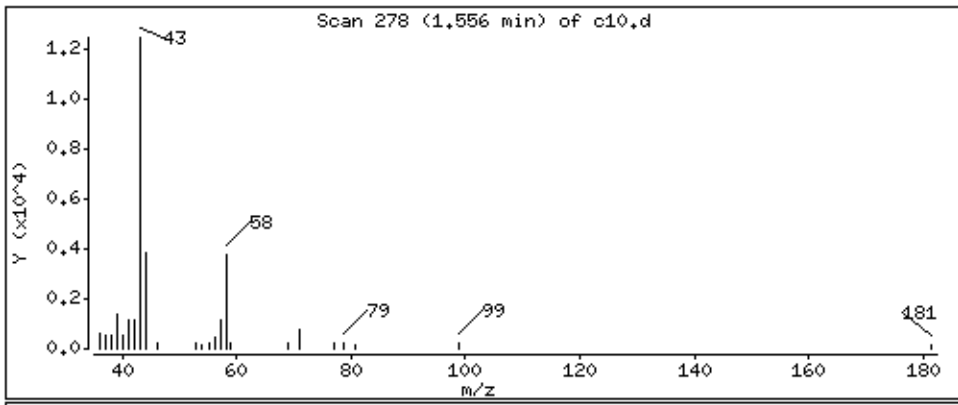
Operator: dae

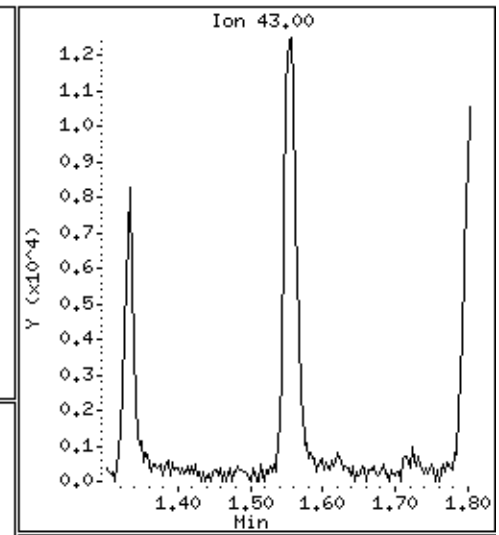
Column phase: DB-624

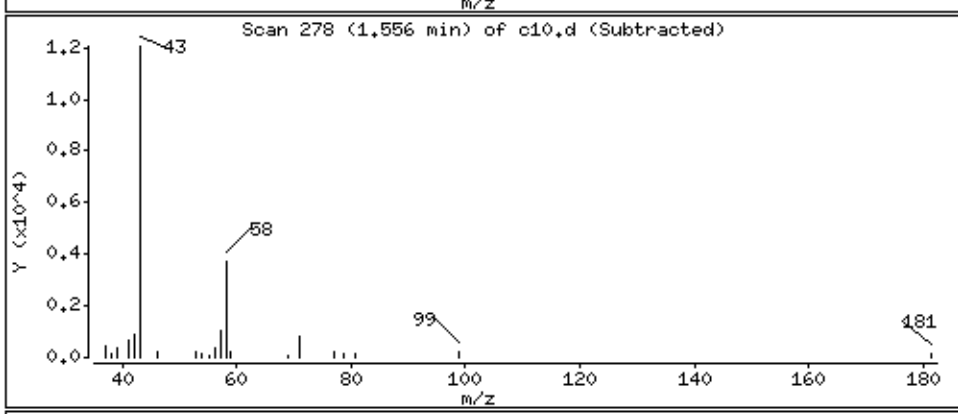
Column diameter: 0.18

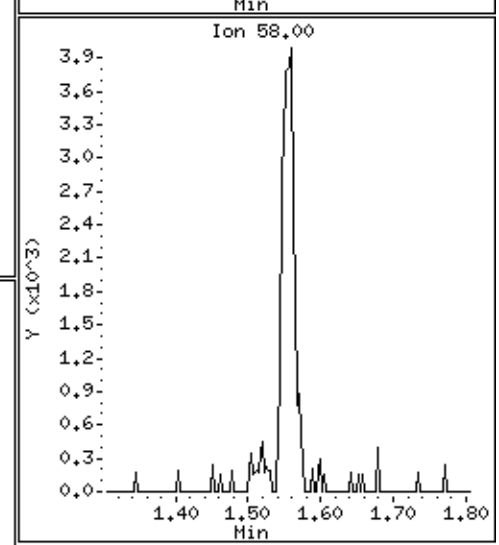
12 Acetone

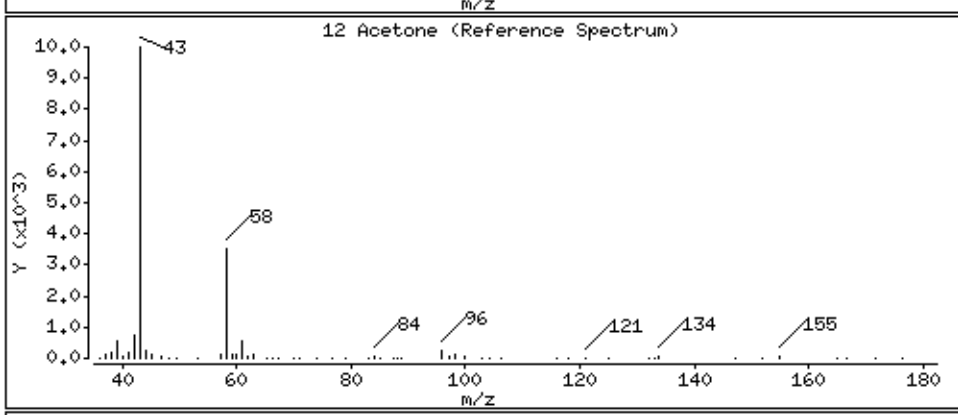
Concentration: 15.9 ppb

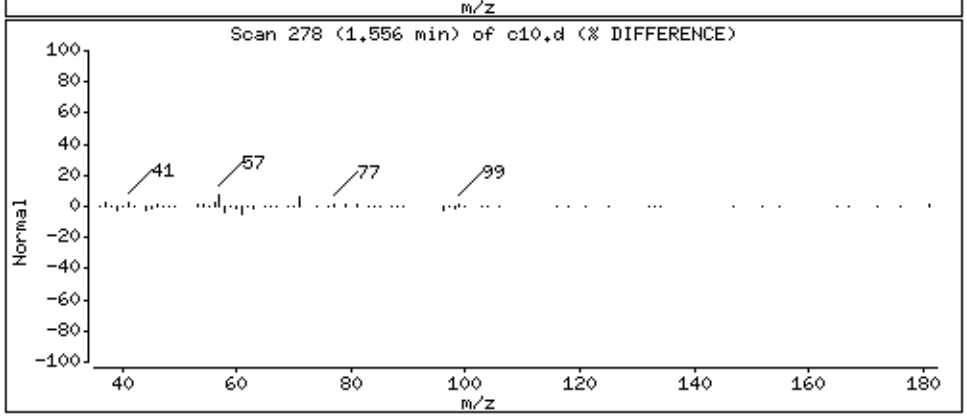












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

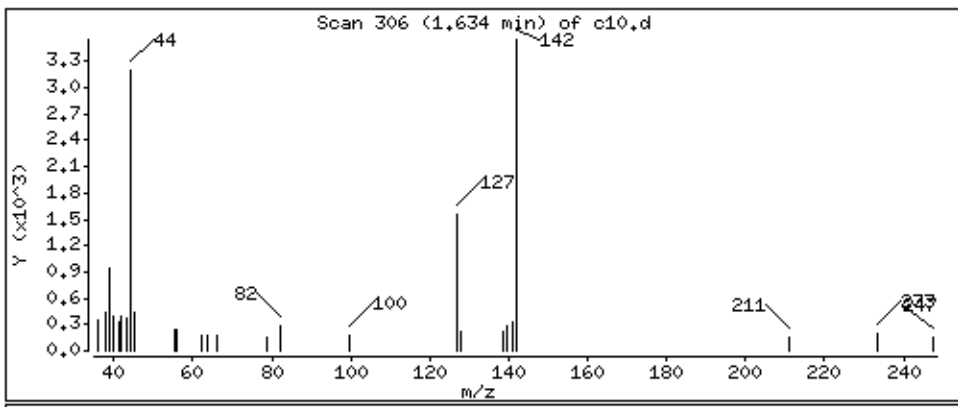
Operator: dae

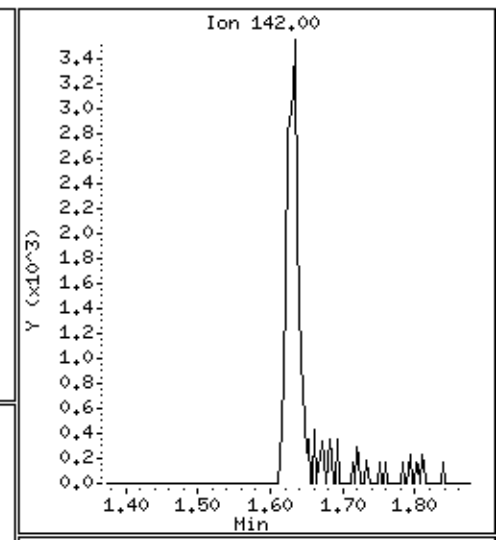
Column phase: DB-624

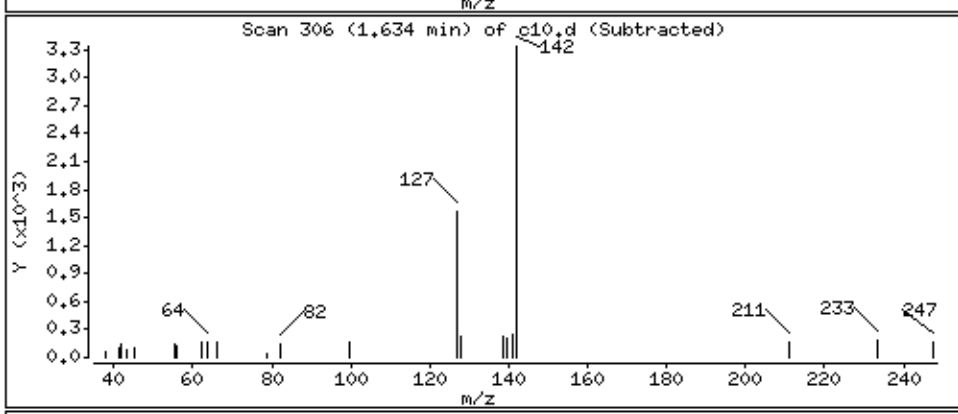
Column diameter: 0.18

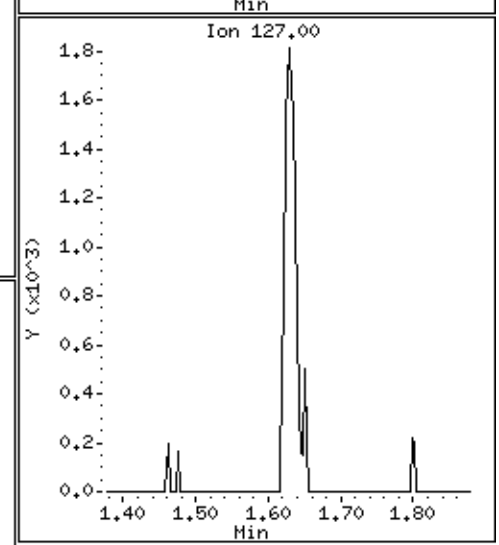
13 Iodomethane

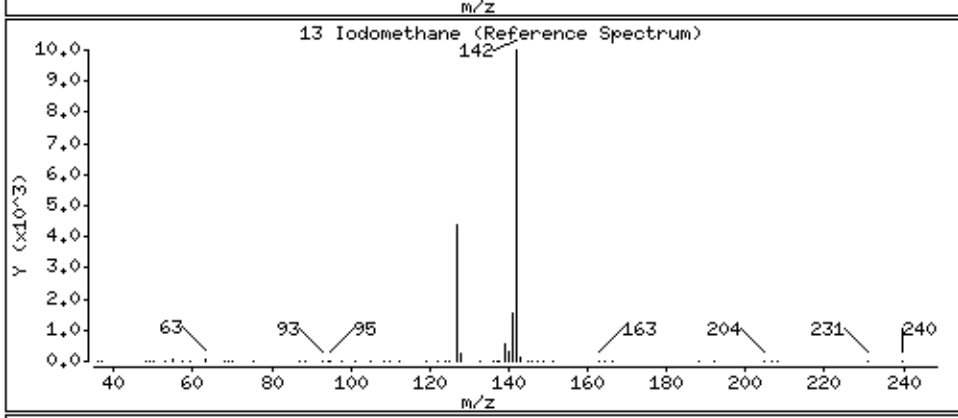
Concentration: 1.84 ppb

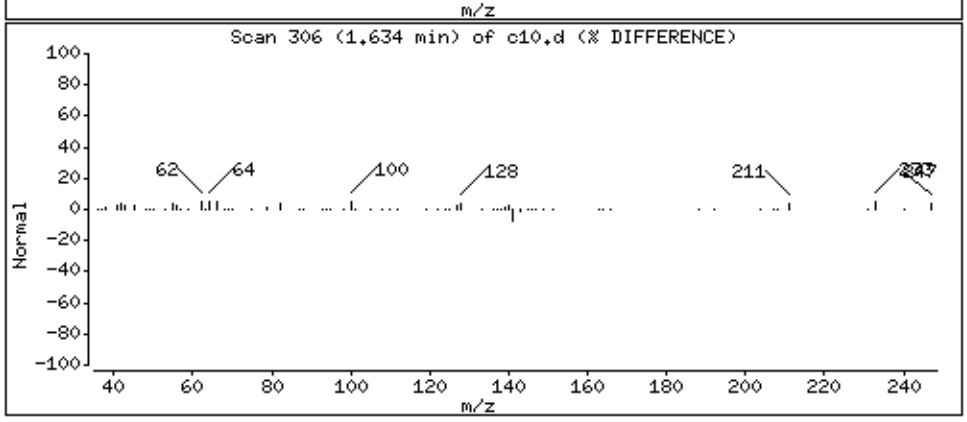












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

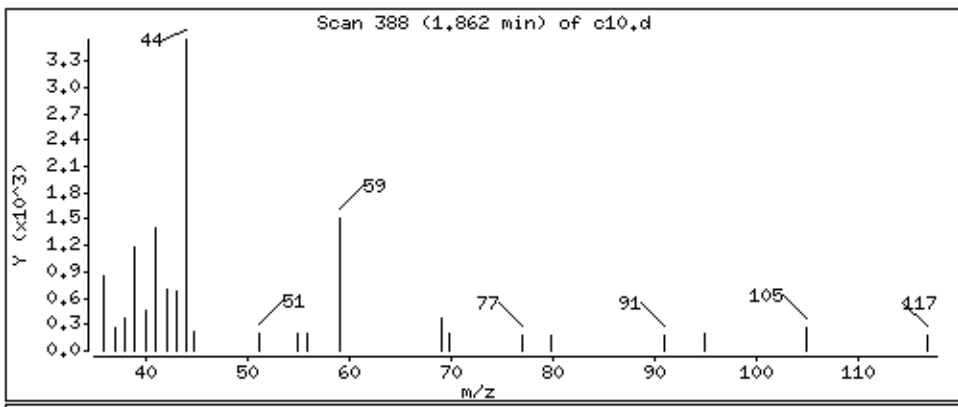
Operator: dae

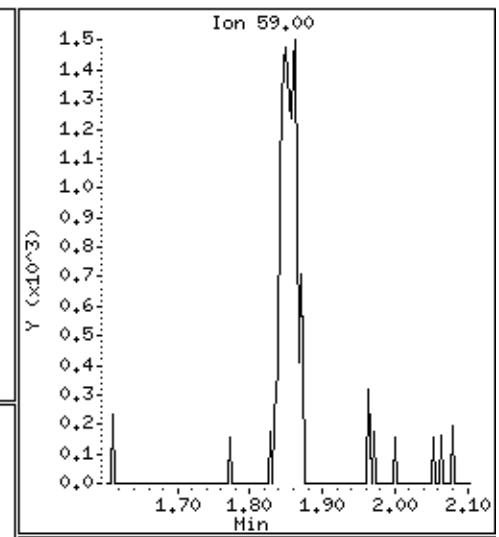
Column phase: DB-624

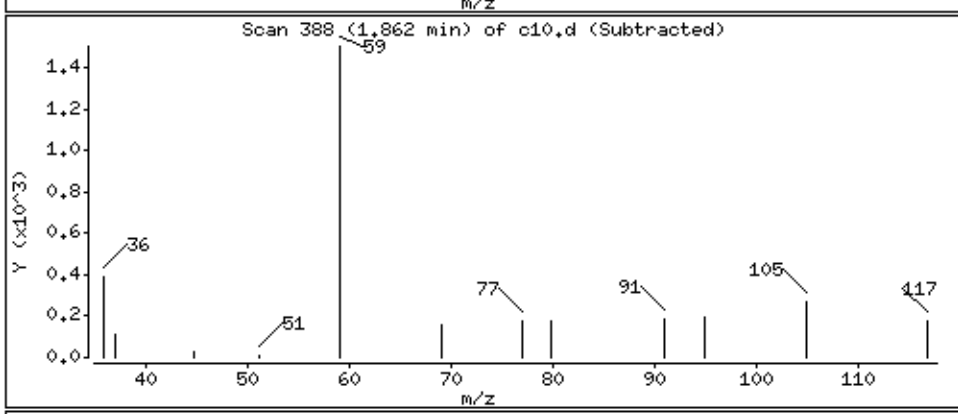
Column diameter: 0.18

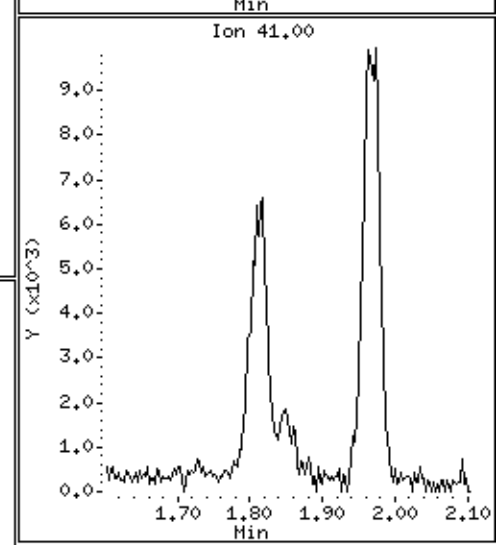
19 tert-Butyl Alcohol

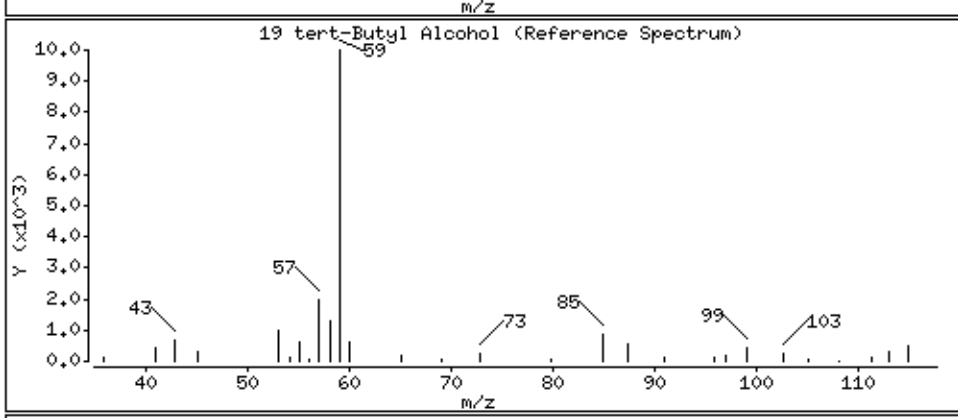
Concentration: 1.96 ppb

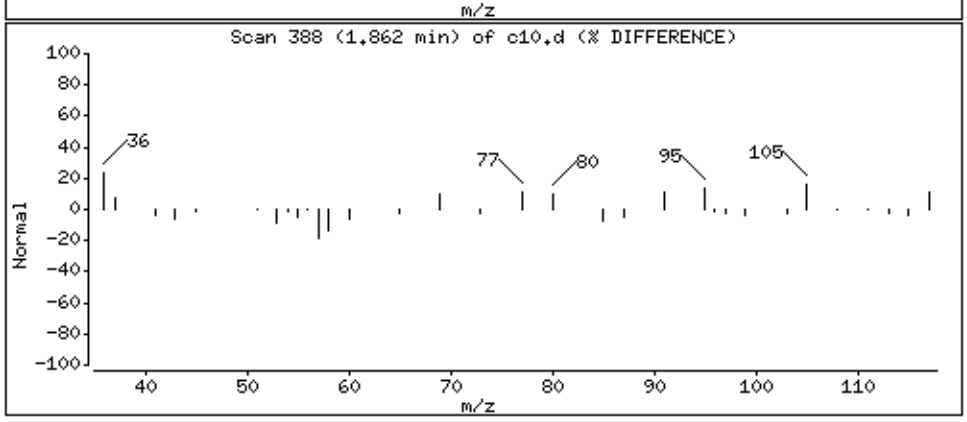












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

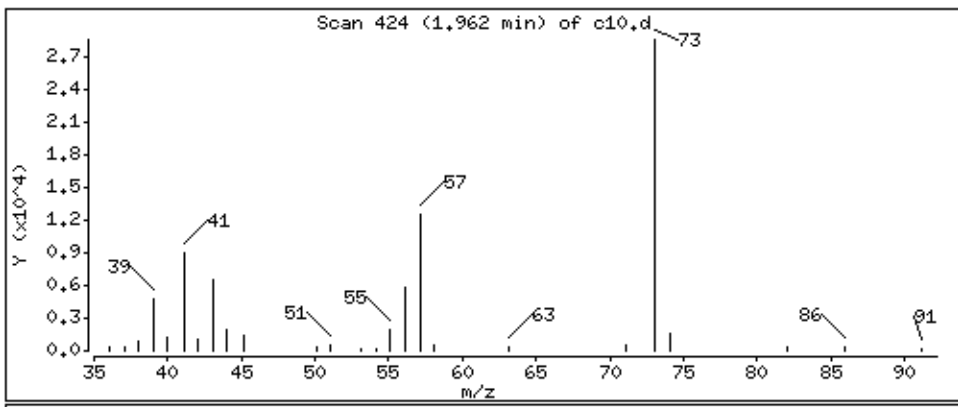
Operator: dae

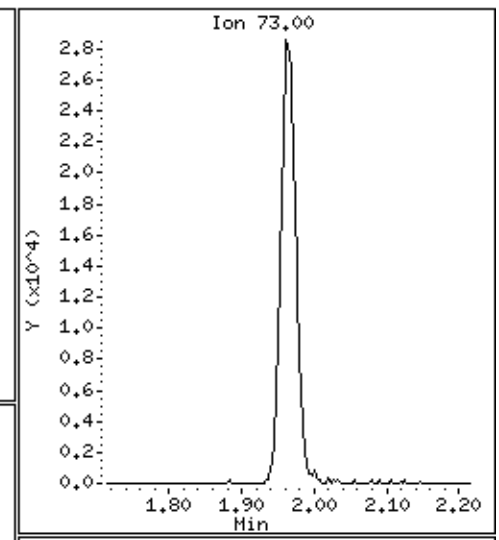
Column phase: DB-624

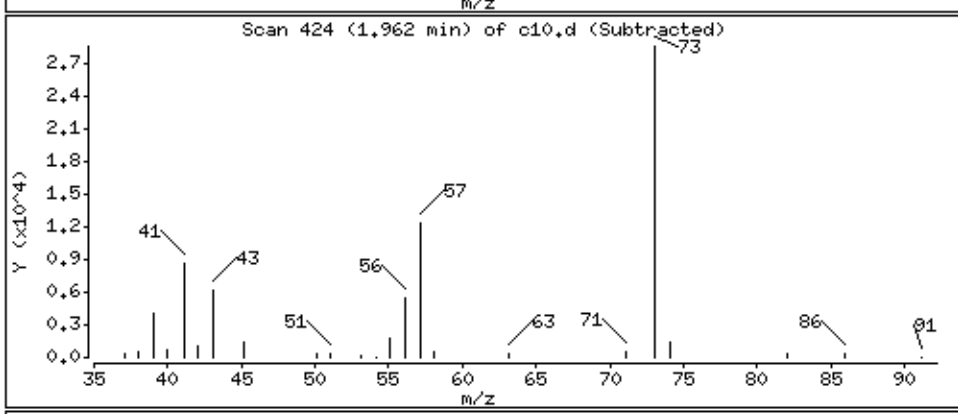
Column diameter: 0.18

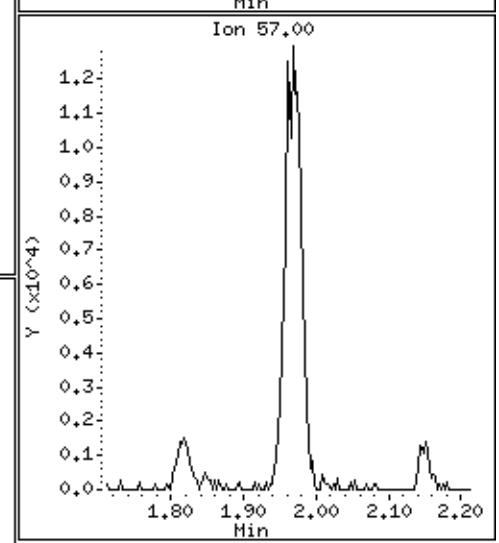
21 Methyl-tert-butyl ether

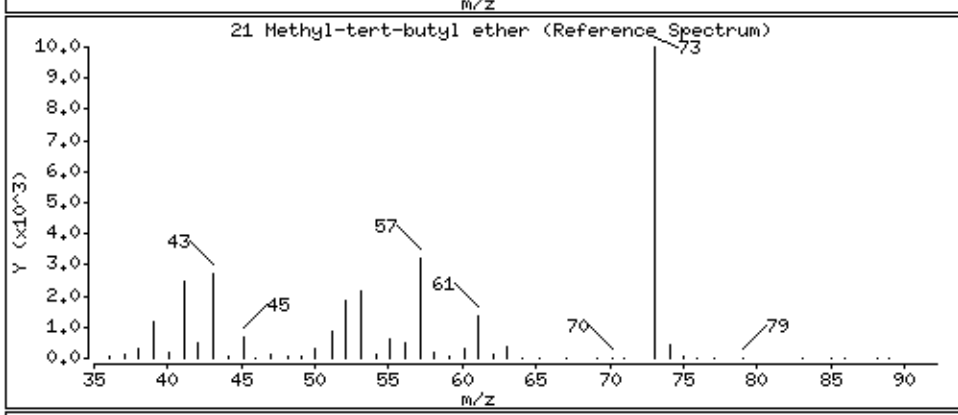
Concentration: 5.14 ppb

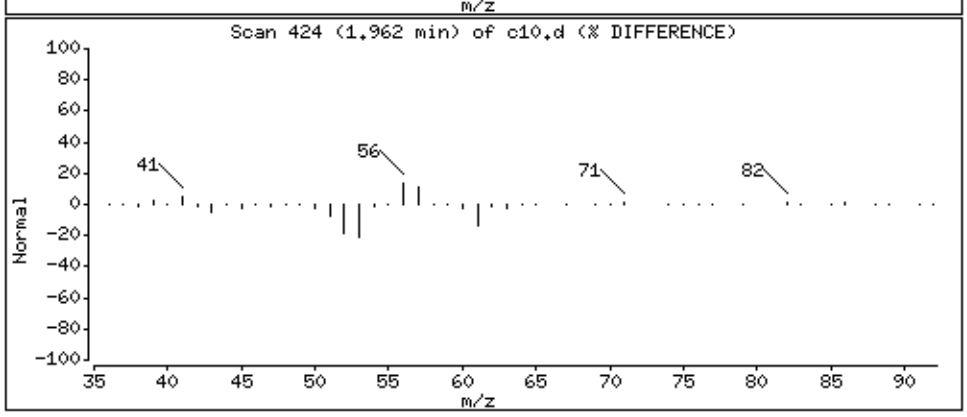












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

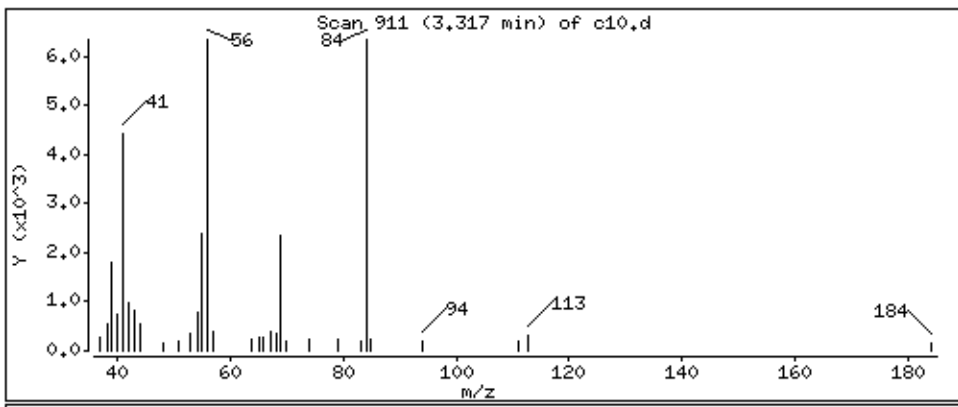
Operator: dae

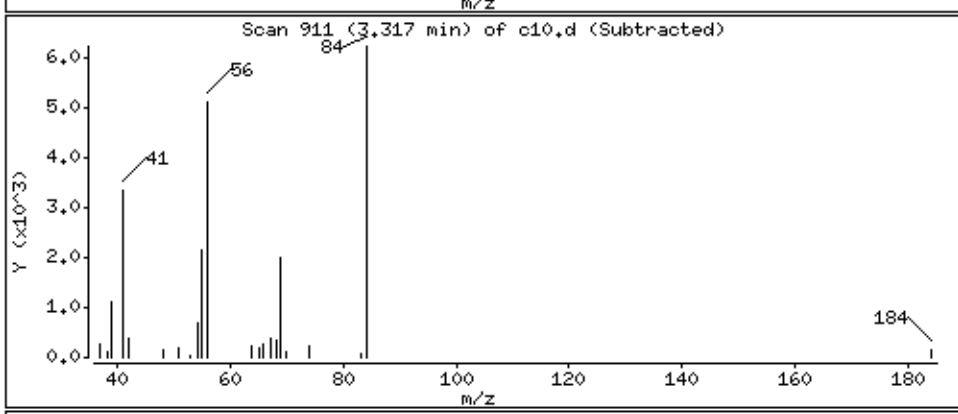
Column phase: DB-624

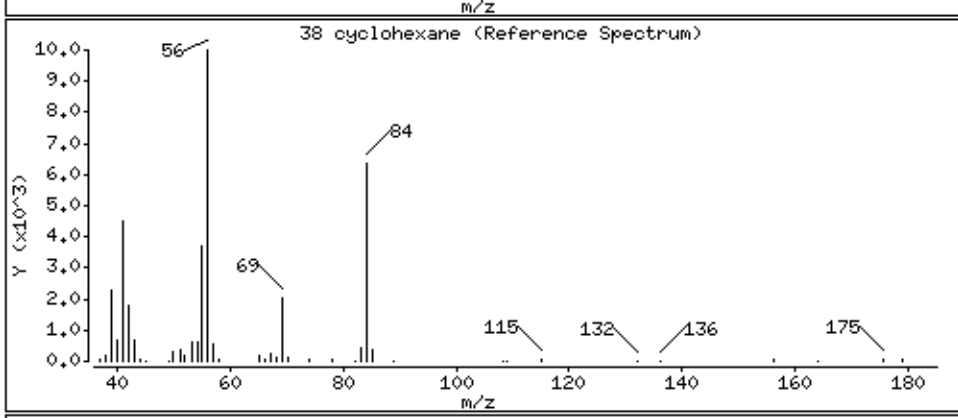
Column diameter: 0.18

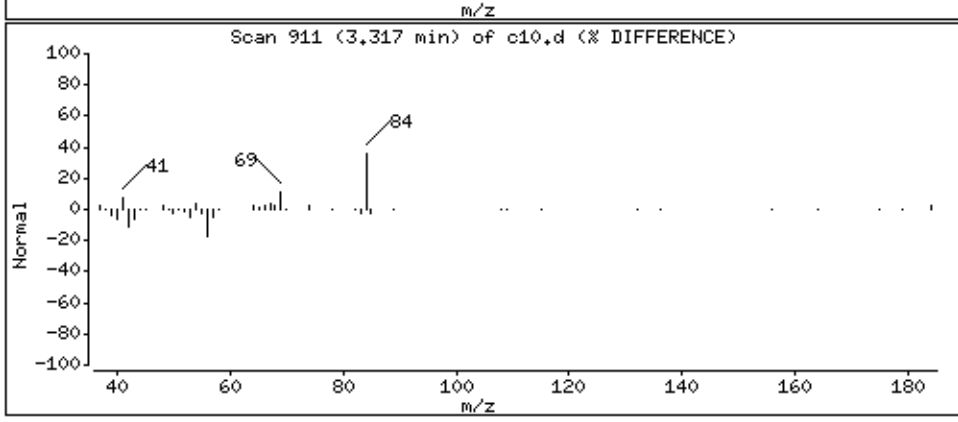
38 cyclohexane

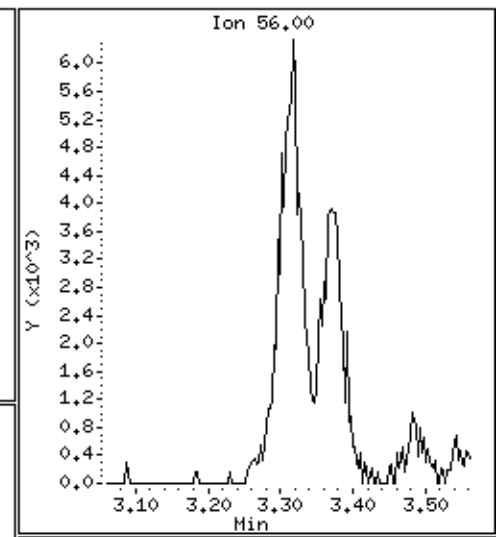
Concentration: 3.05 ppb

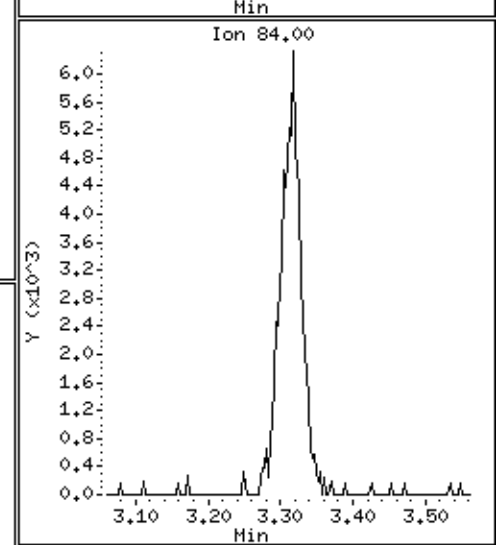


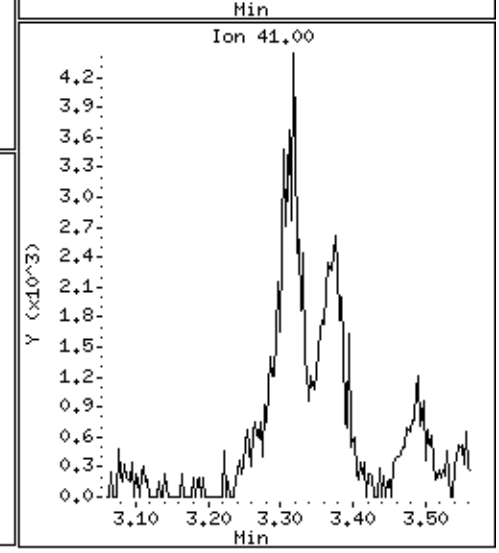












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

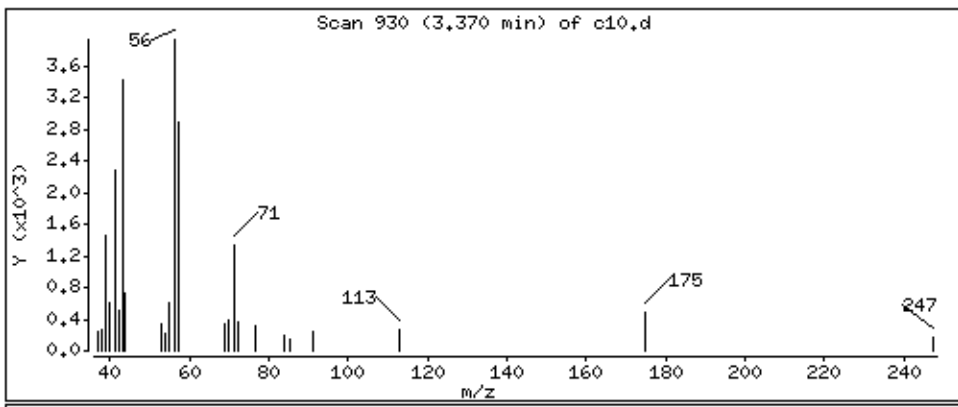
Operator: dae

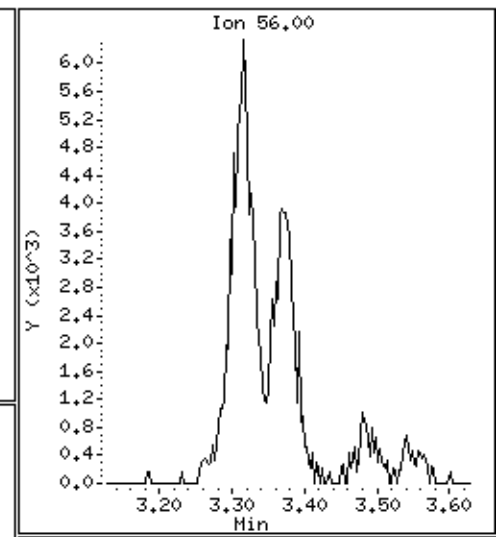
Column phase: DB-624

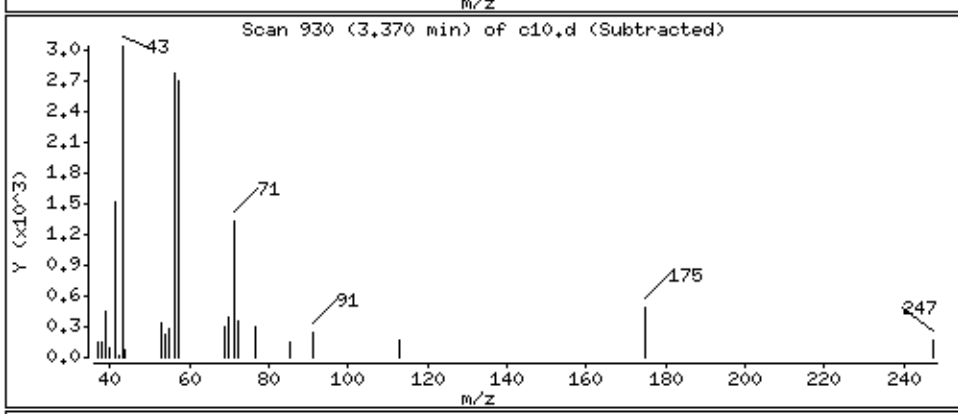
Column diameter: 0.18

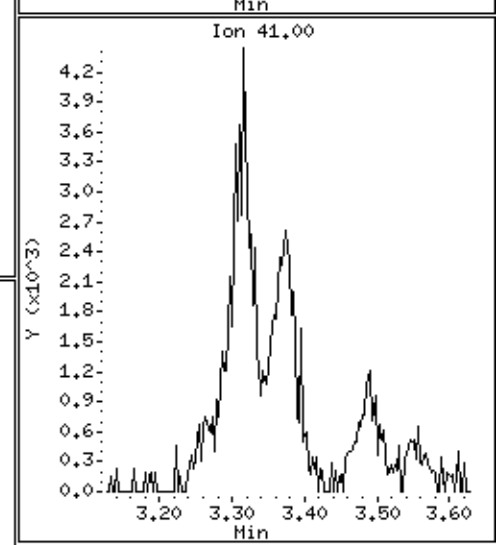
150 n-butyl chloride

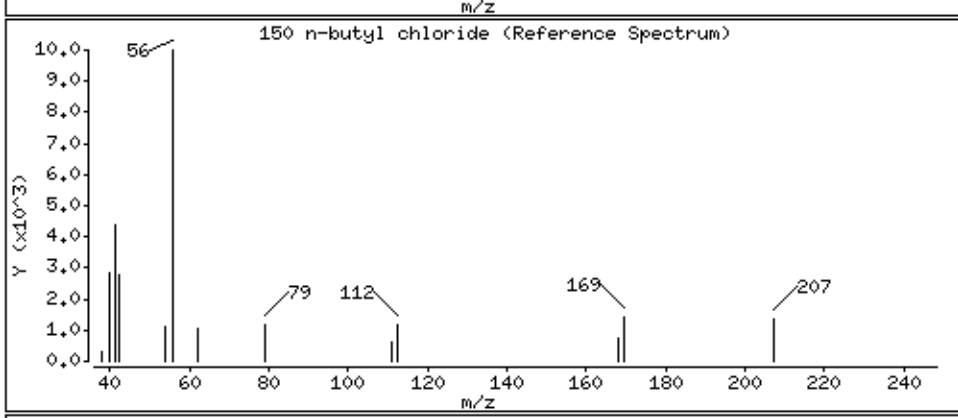
Concentration: 1.79 ppb

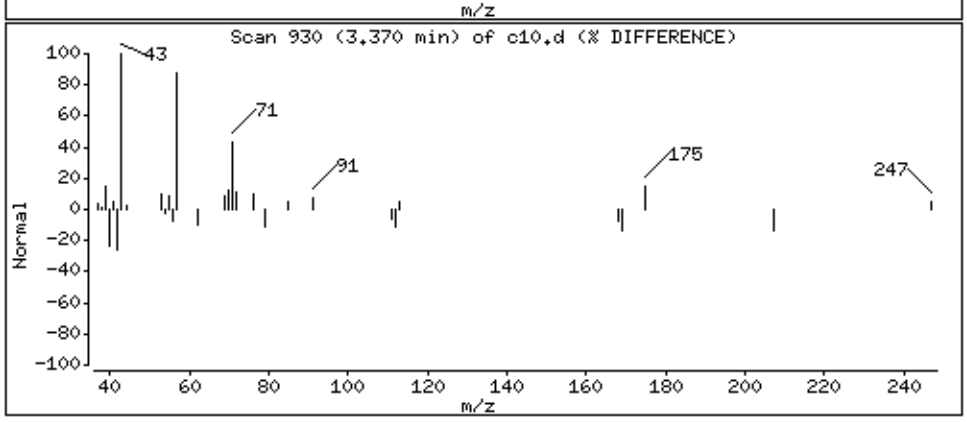












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

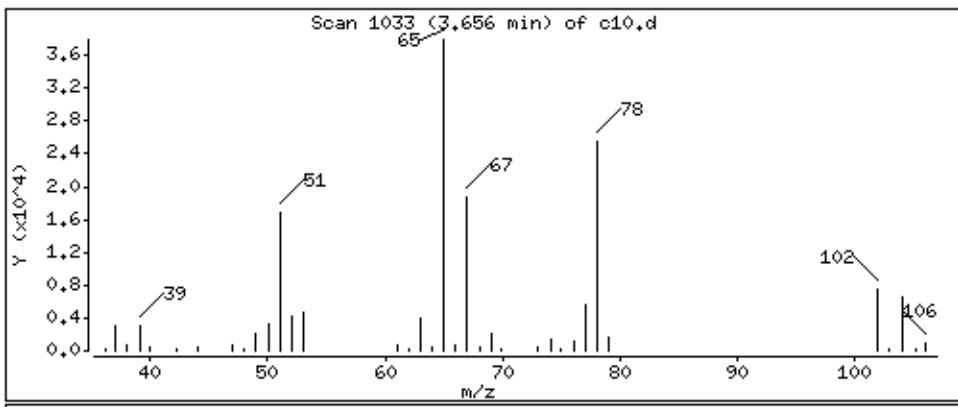
Operator: dae

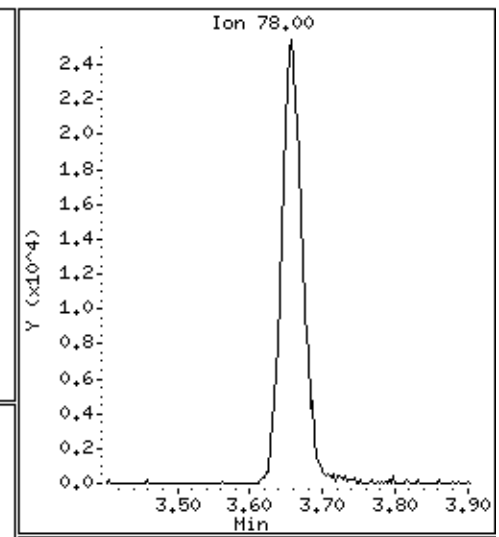
Column phase: DB-624

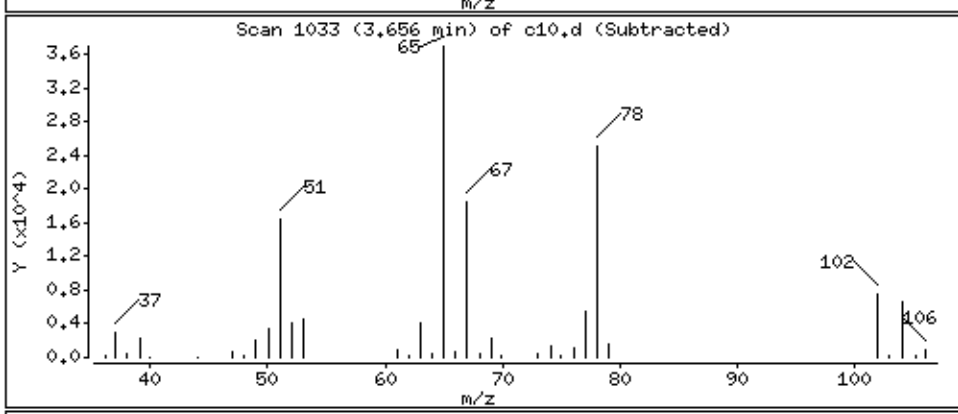
Column diameter: 0.18

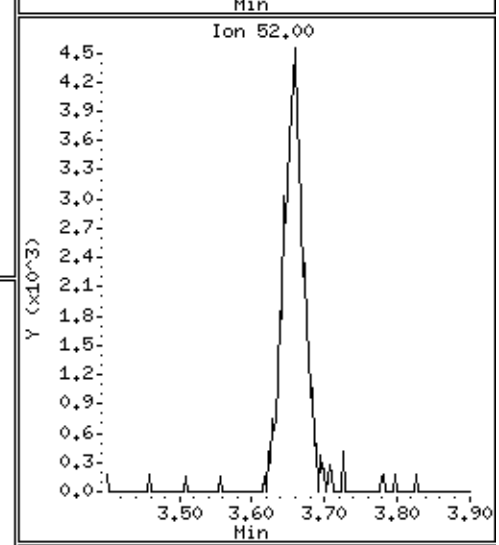
41 Benzene

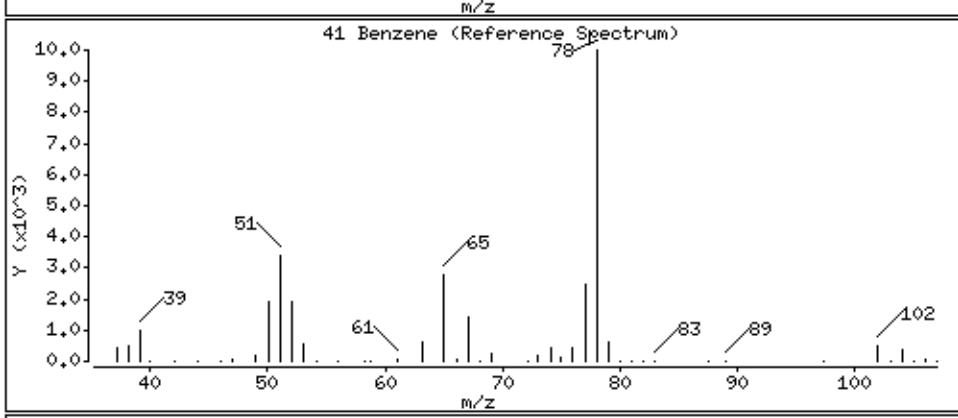
Concentration: 5.33 ppb

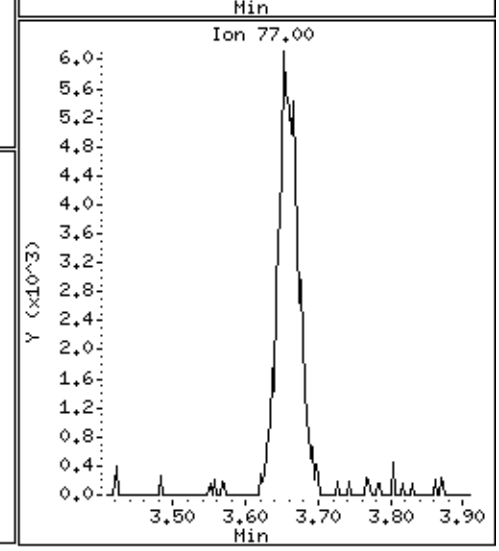


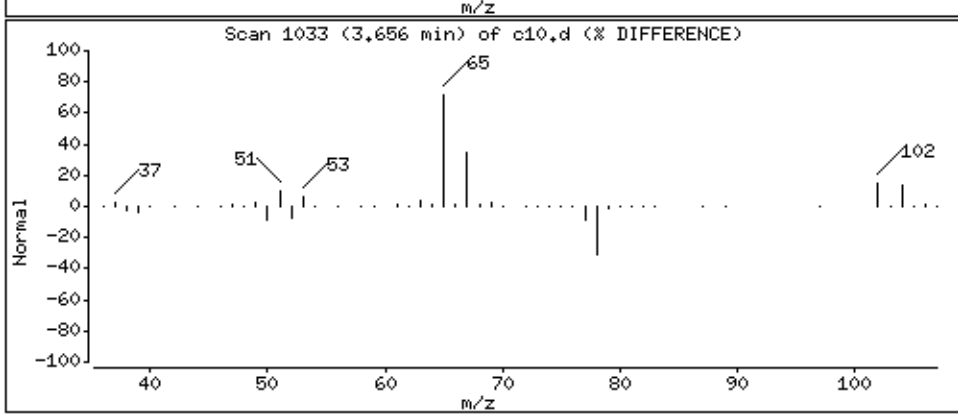












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

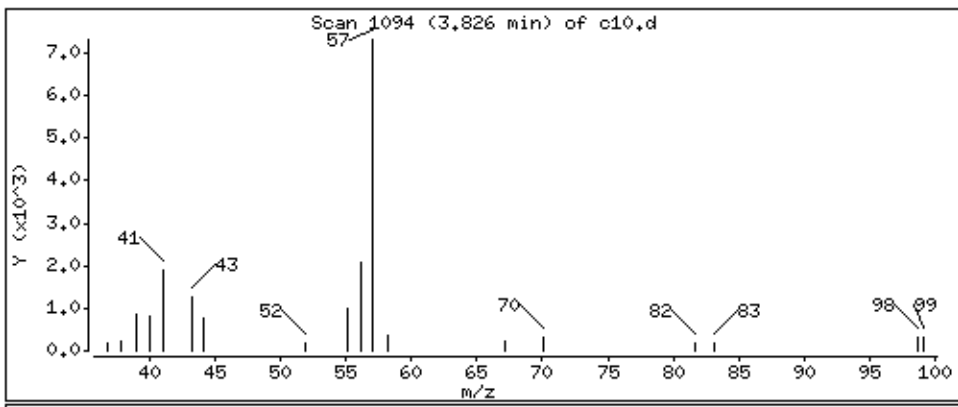
Operator: dae

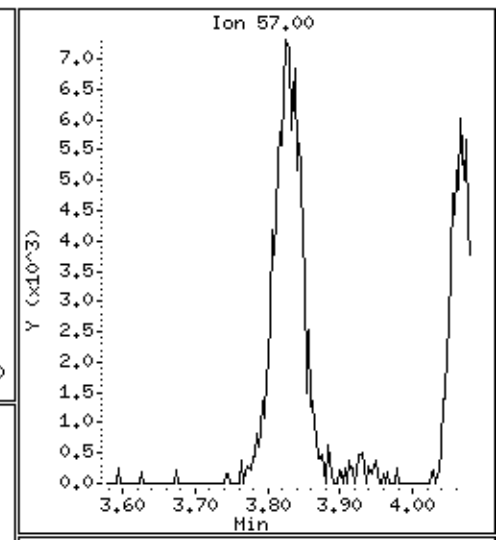
Column phase: DB-624

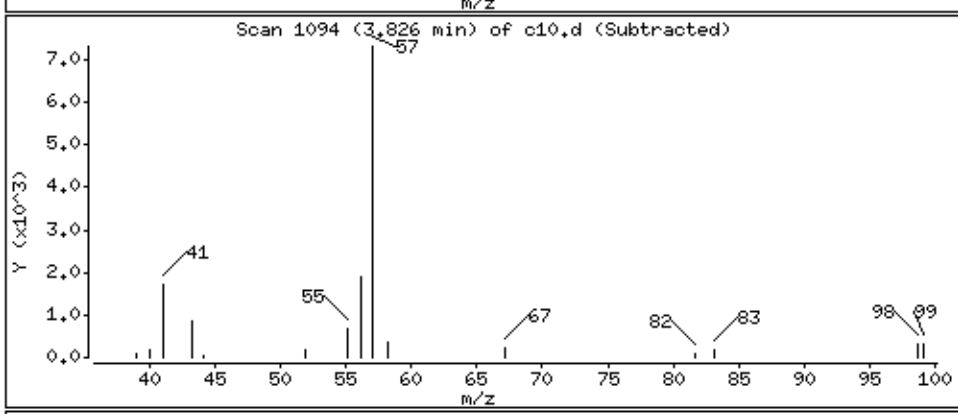
Column diameter: 0.18

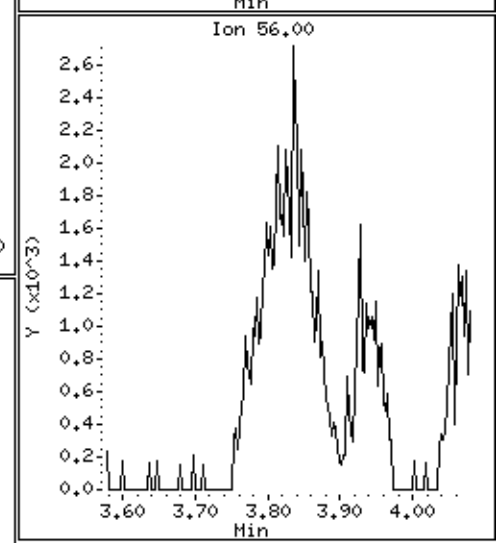
43 2,2,4-Trimethylpentane

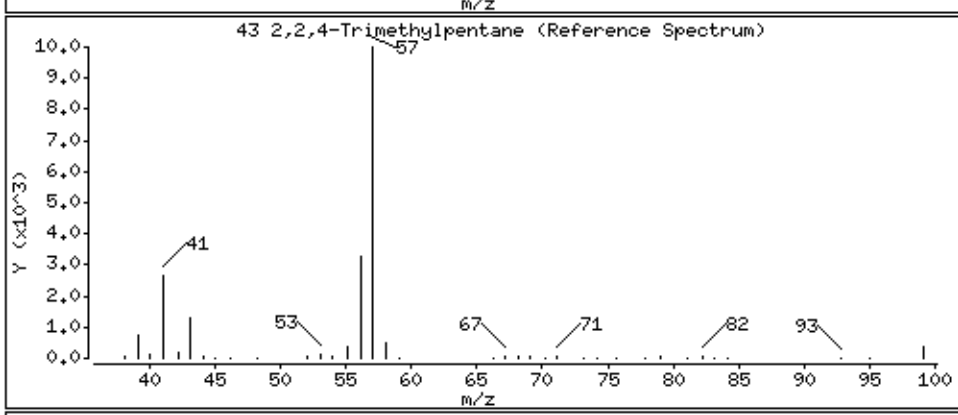
Concentration: 3.23 ppb

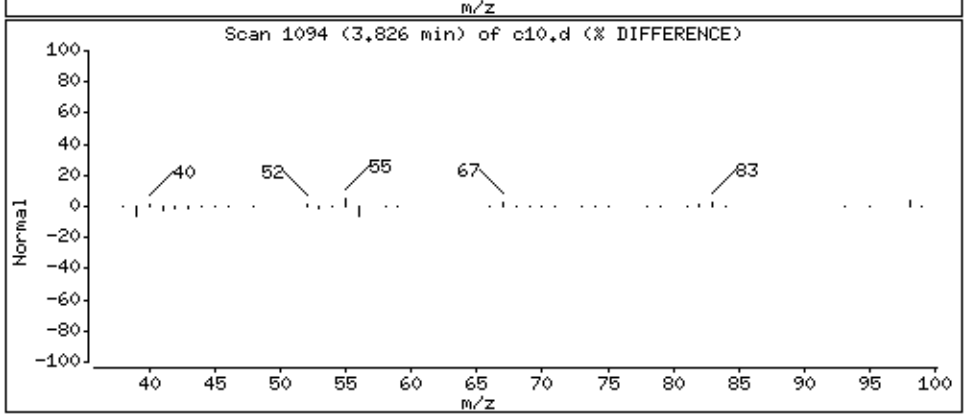












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

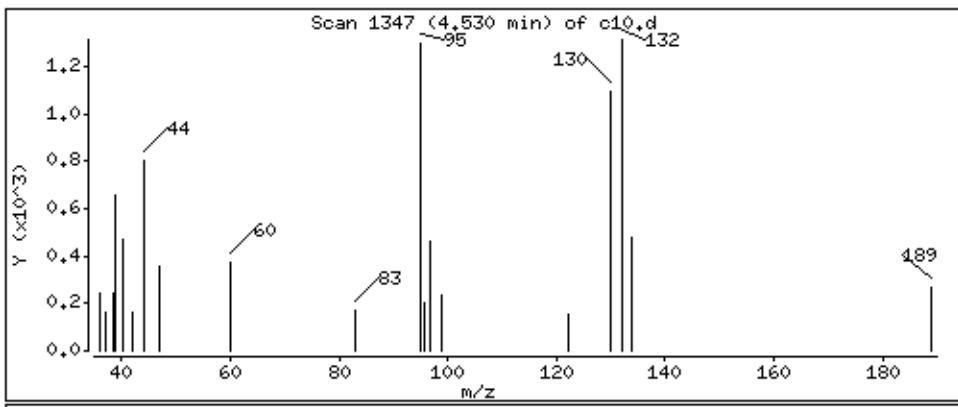
Operator: dae

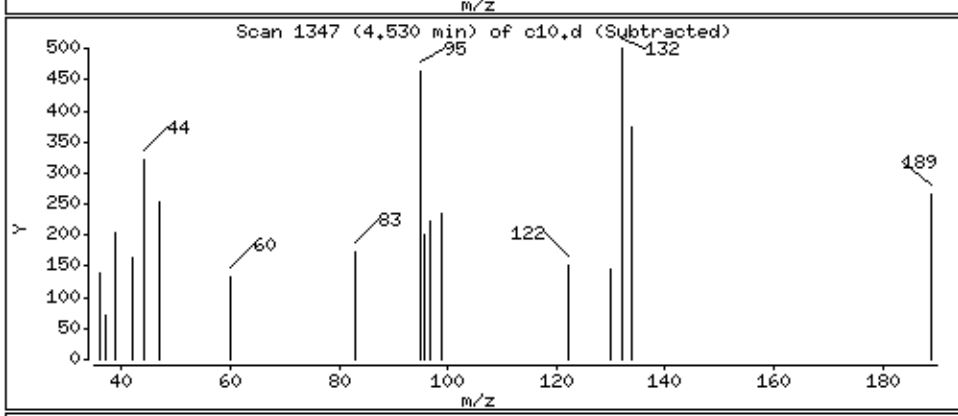
Column phase: DB-624

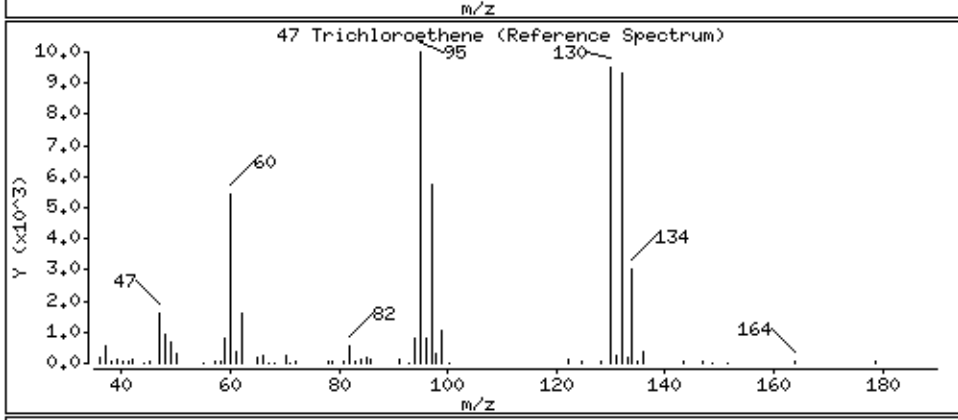
Column diameter: 0.18

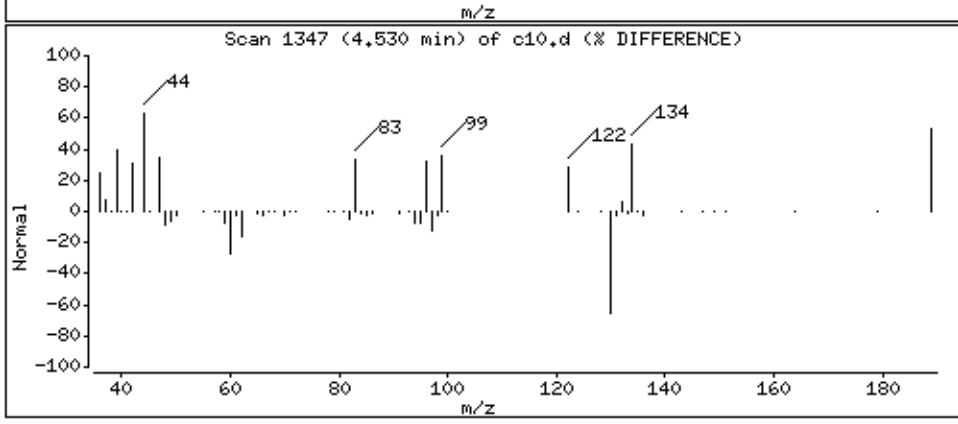
47 Trichloroethene

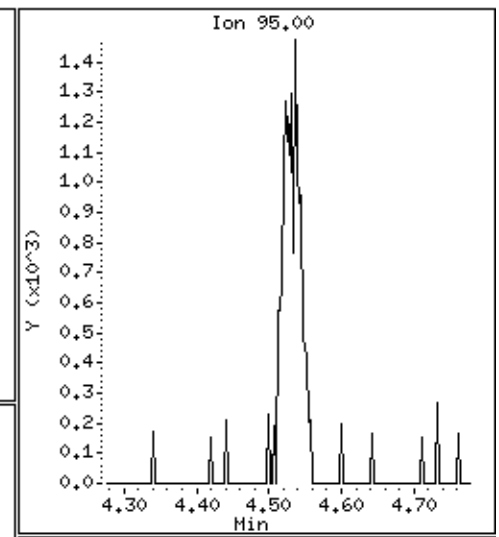
Concentration: 0.526 ppb

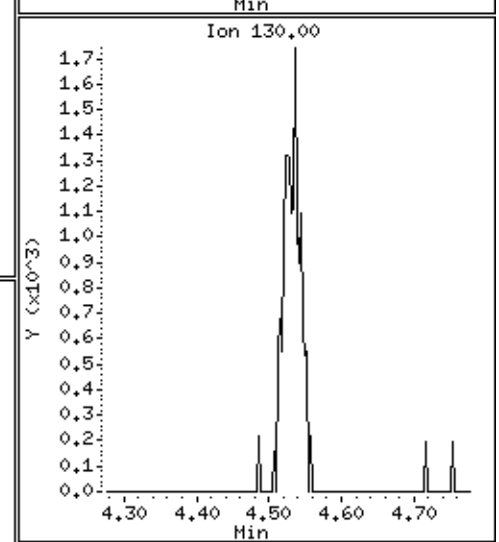


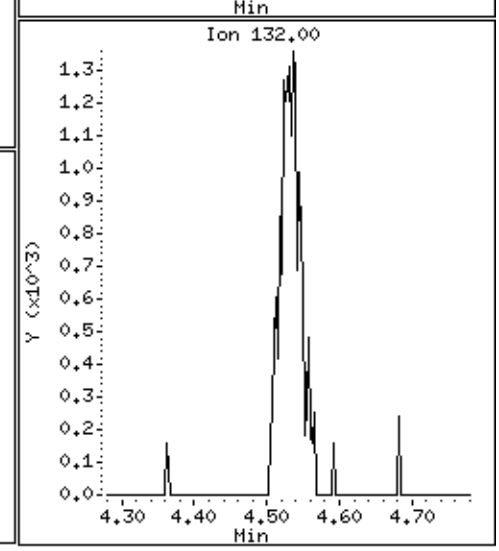












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

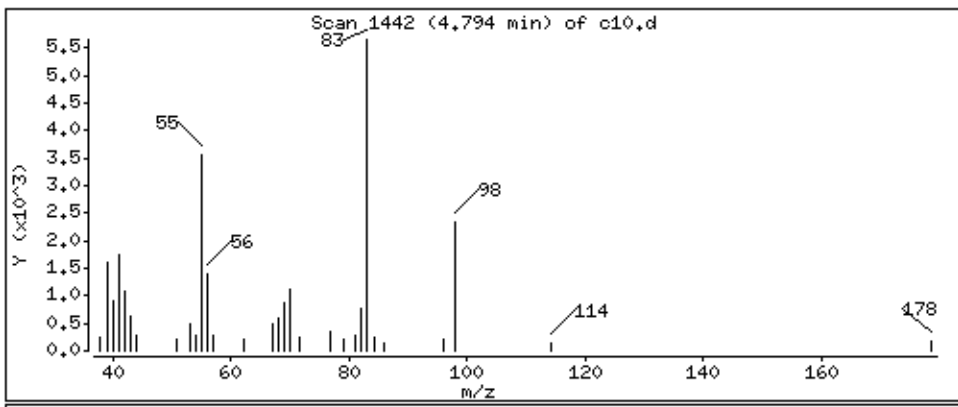
Operator: dae

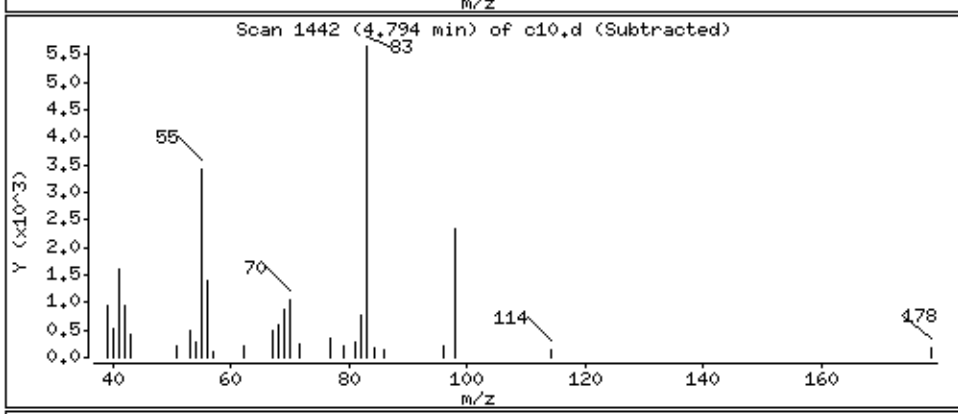
Column phase: DB-624

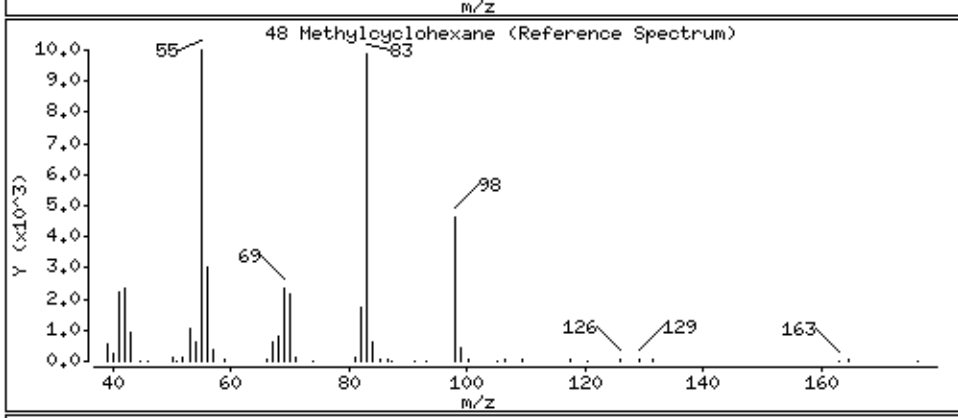
Column diameter: 0.18

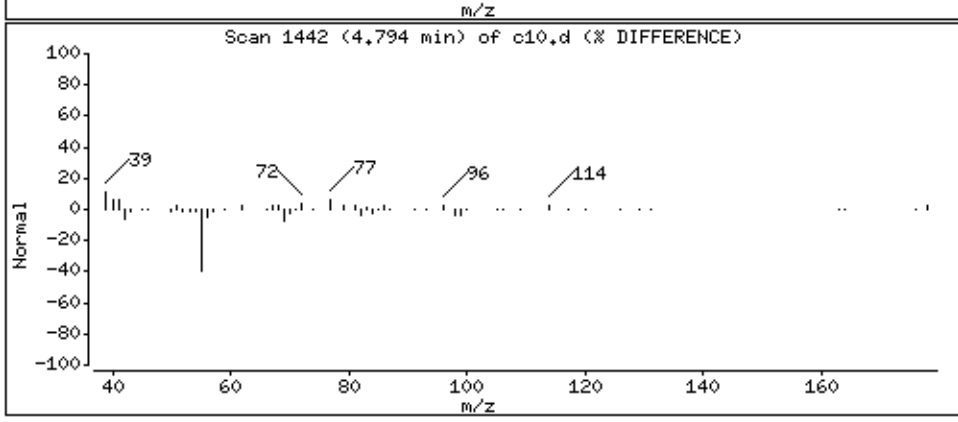
48 Methylcyclohexane

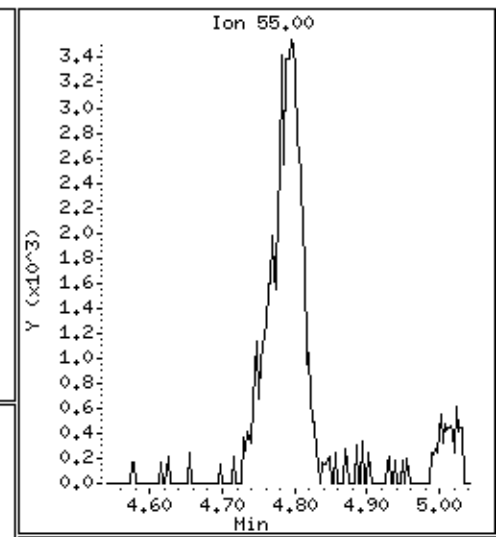
Concentration: 3.81 ppb

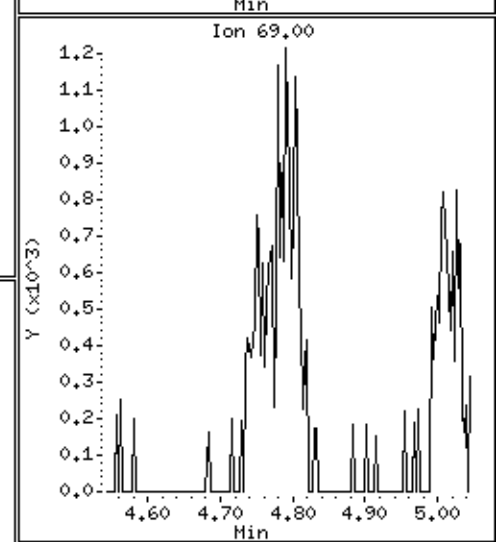


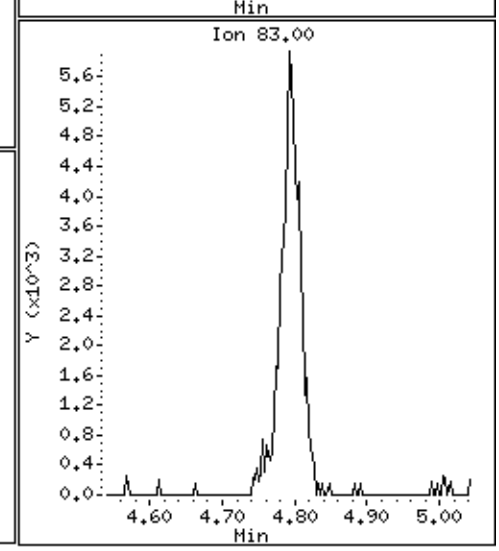












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

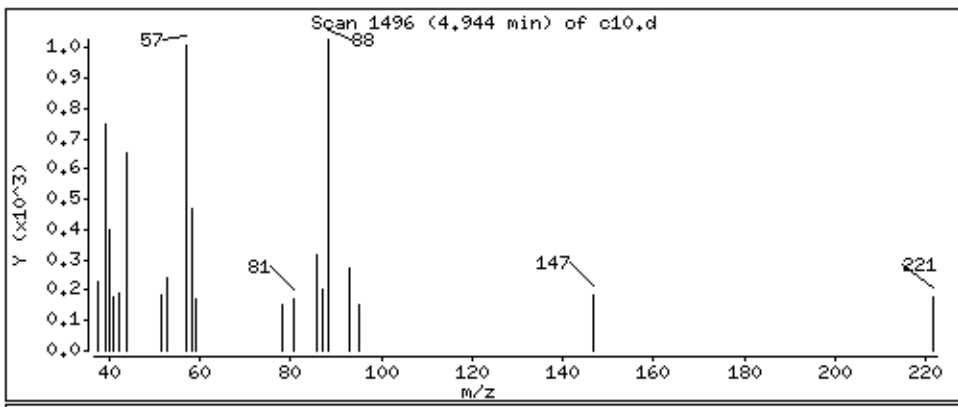
Operator: dae

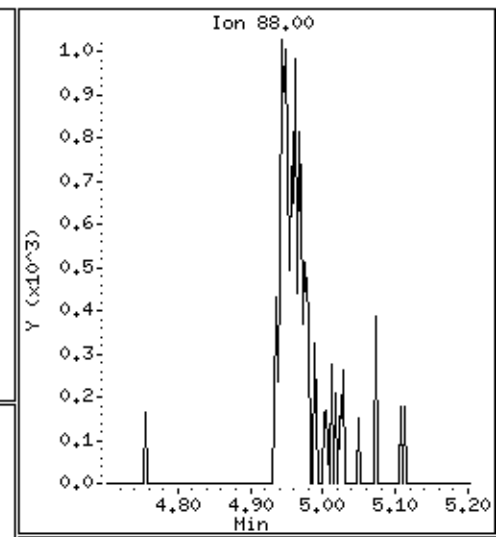
Column phase: DB-624

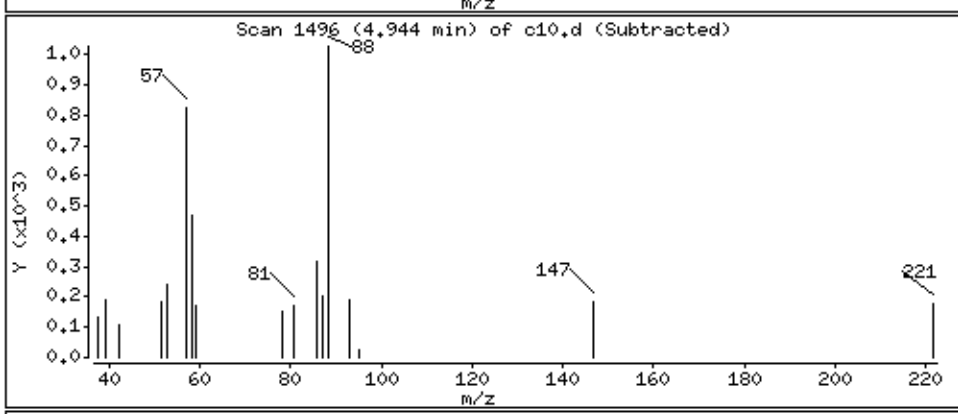
Column diameter: 0.18

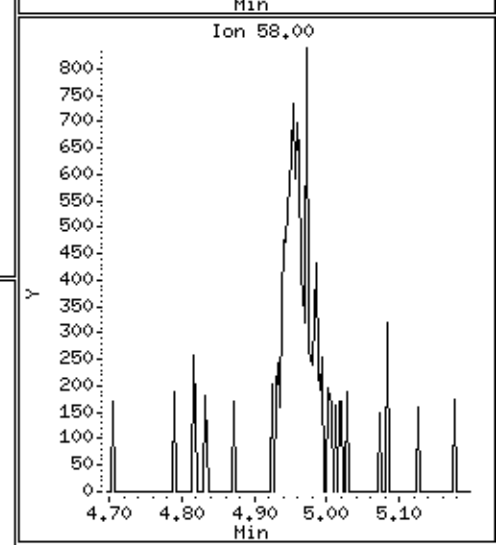
50 1,4-Dioxane

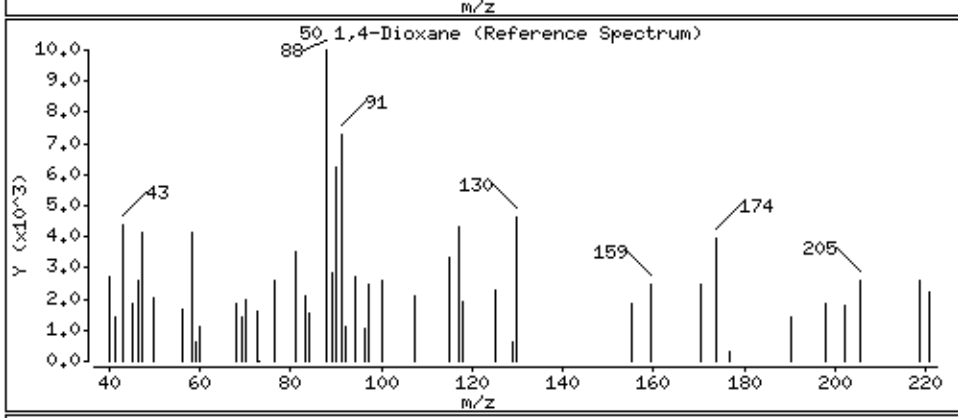
Concentration: 67.6 ppb

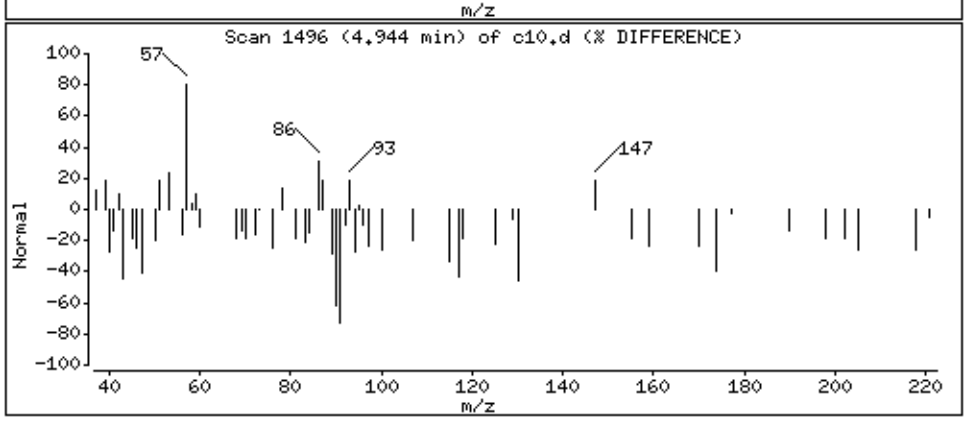












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

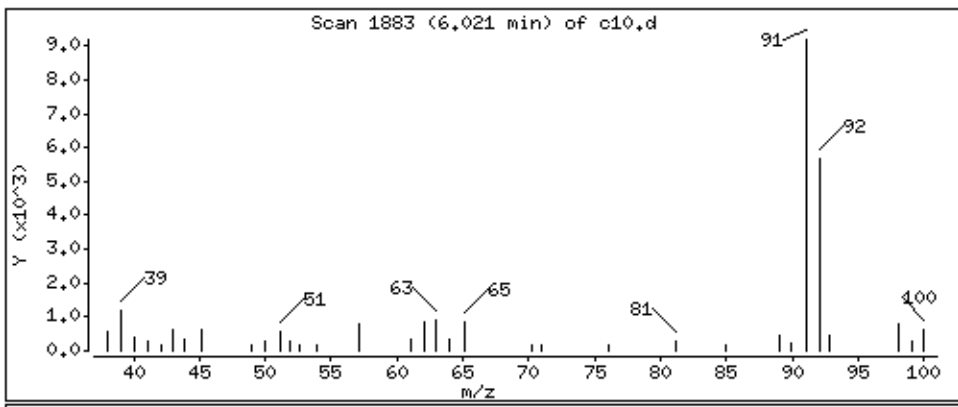
Operator: dae

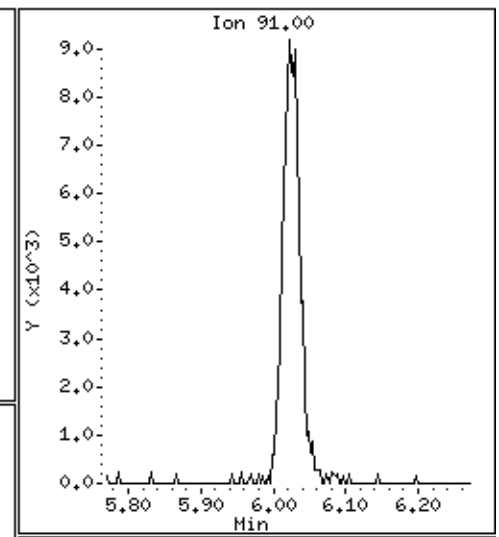
Column phase: DB-624

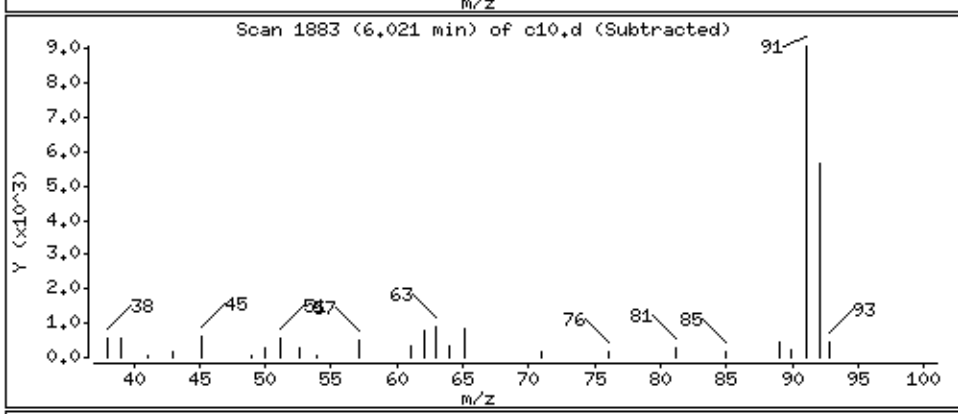
Column diameter: 0.18

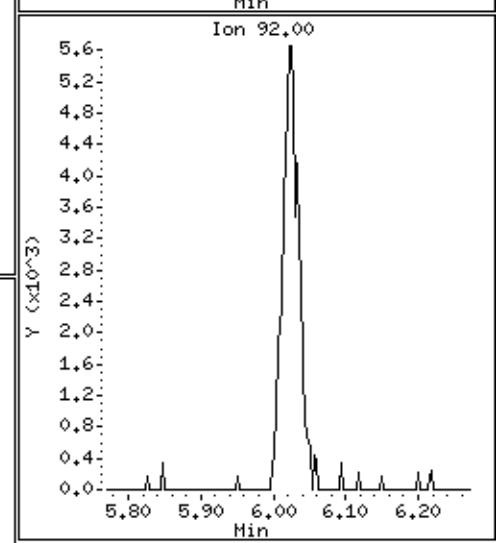
58 Toluene

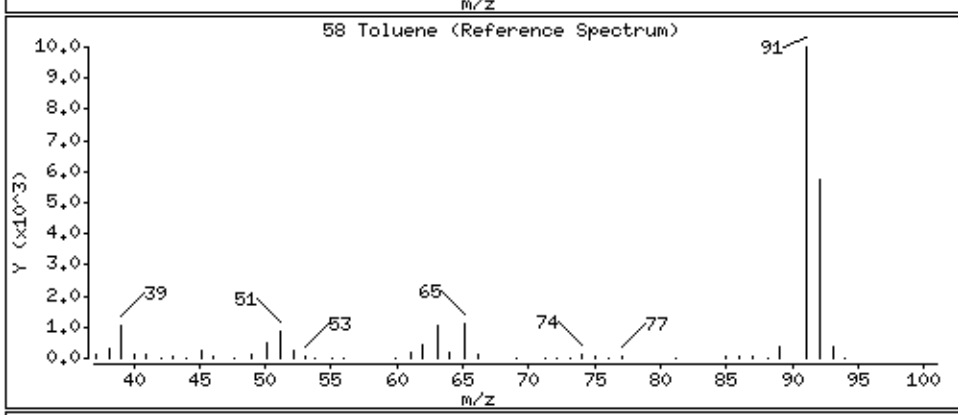
Concentration: 1.58 ppb

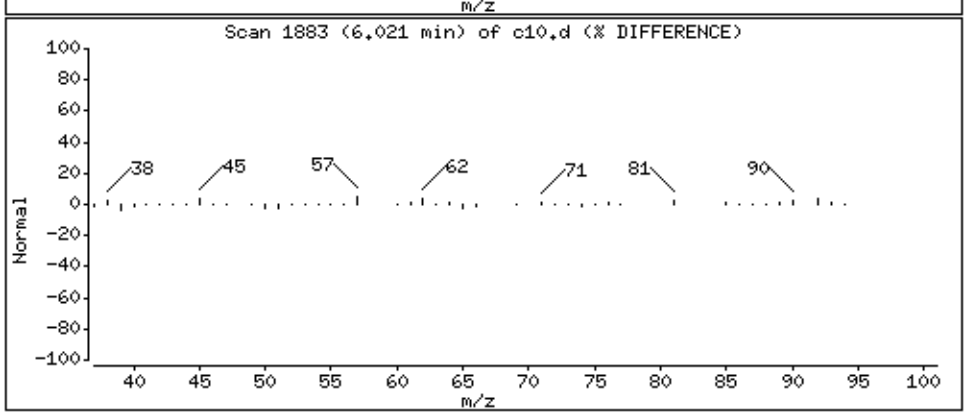












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

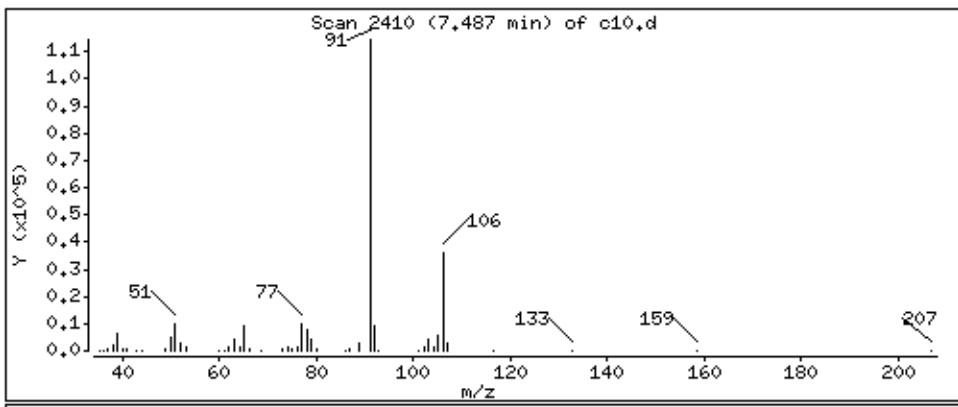
Operator: dae

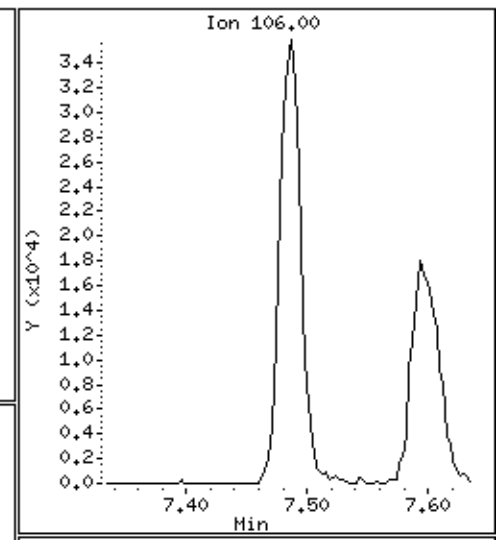
Column phase: DB-624

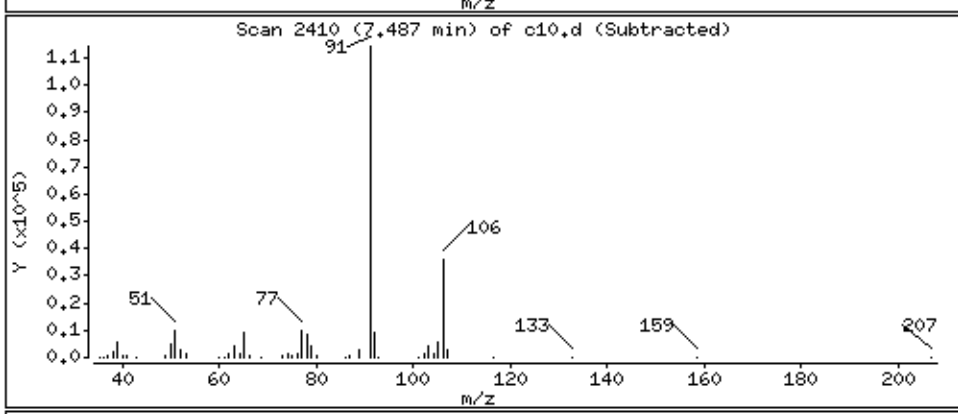
Column diameter: 0.18

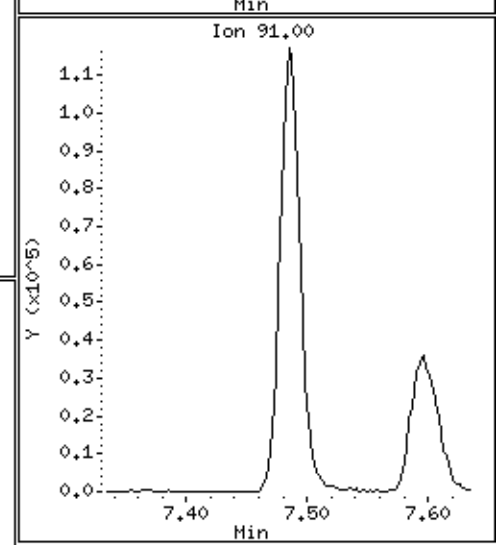
70 Ethylbenzene

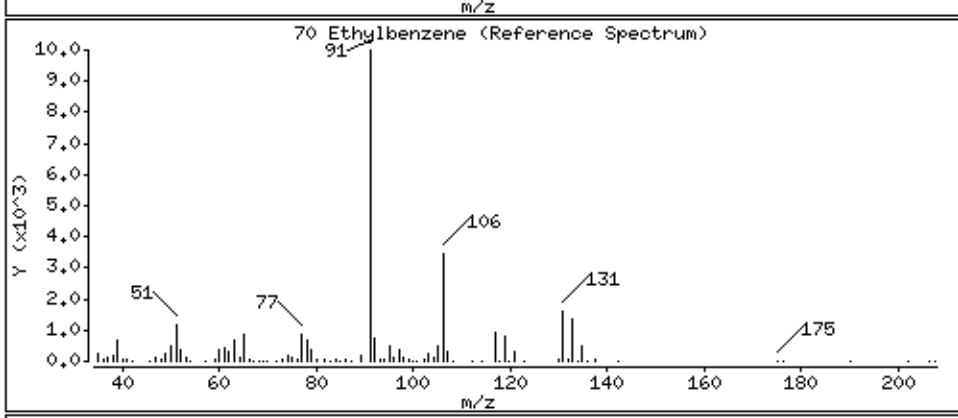
Concentration: 13.8 ppb

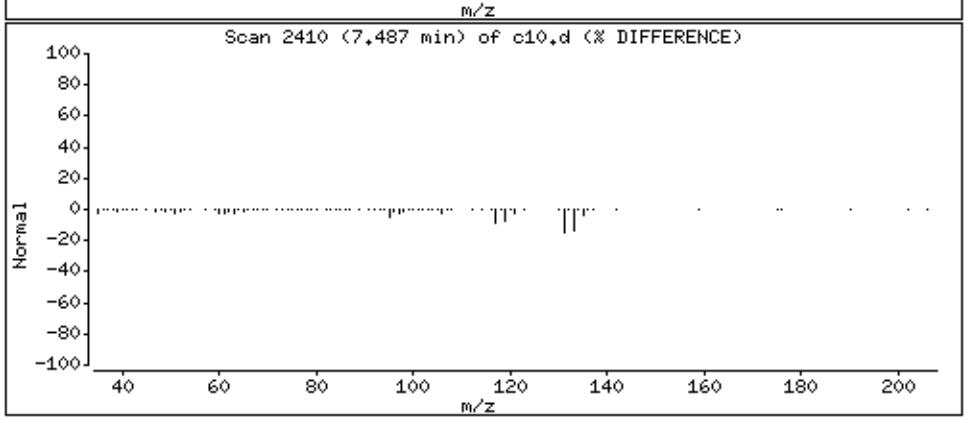












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

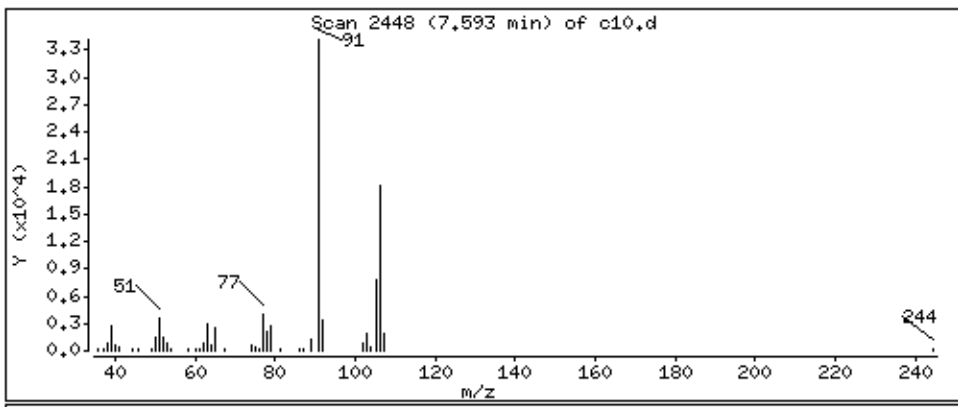
Operator: dae

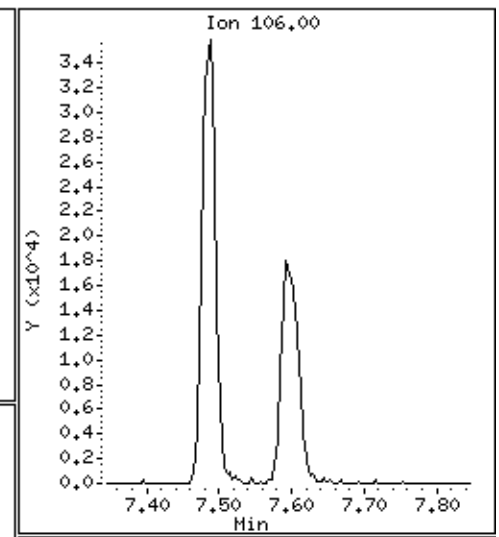
Column phase: DB-624

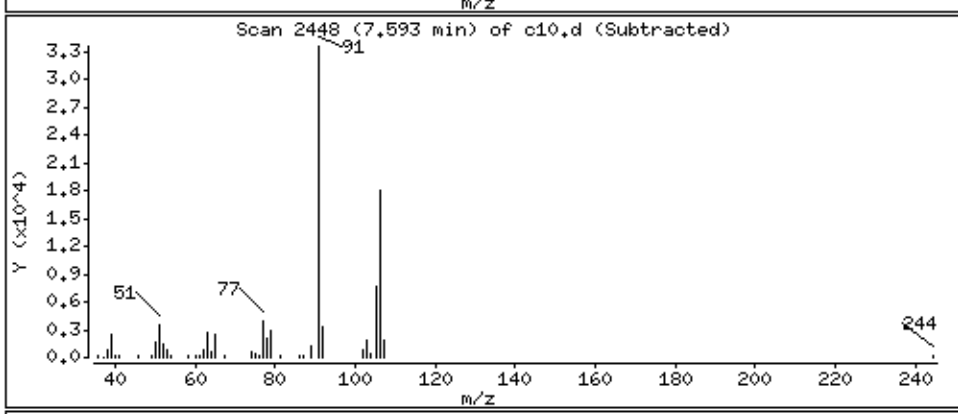
Column diameter: 0.18

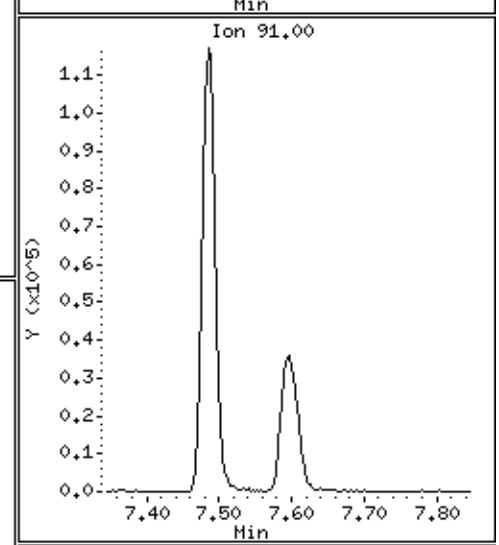
71 m&p-Xylene

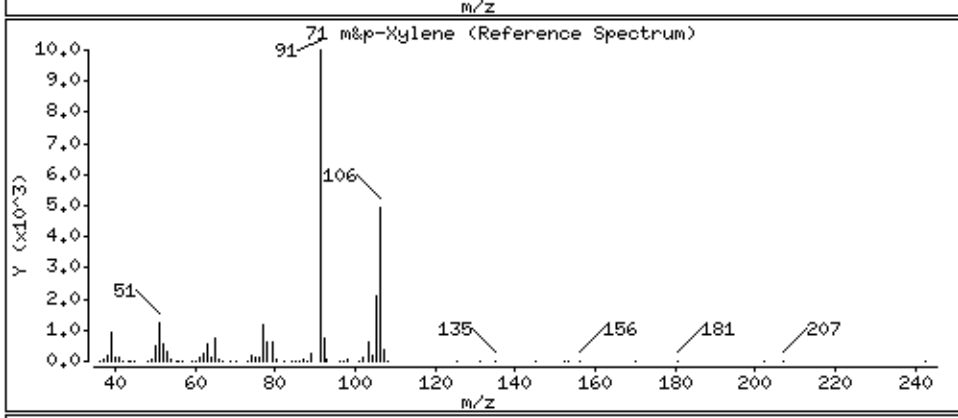
Concentration: 7.24 ppb

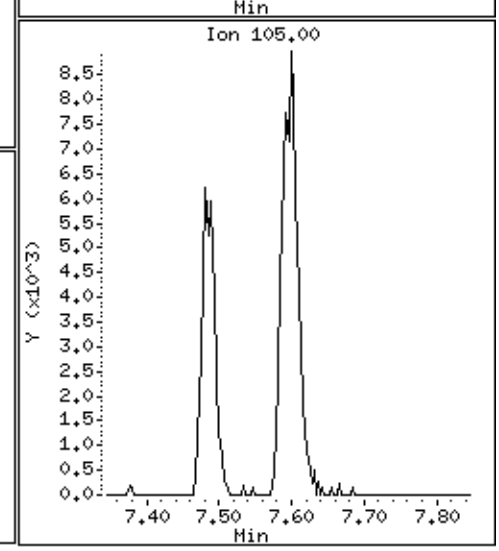


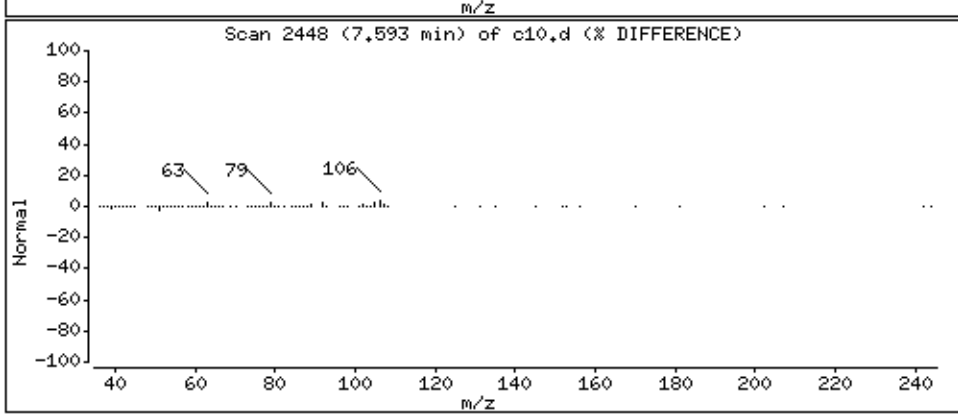












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

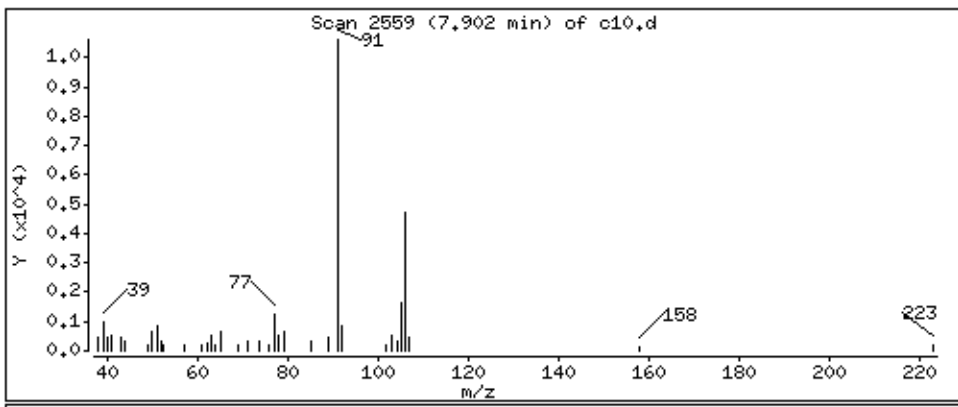
Operator: dae

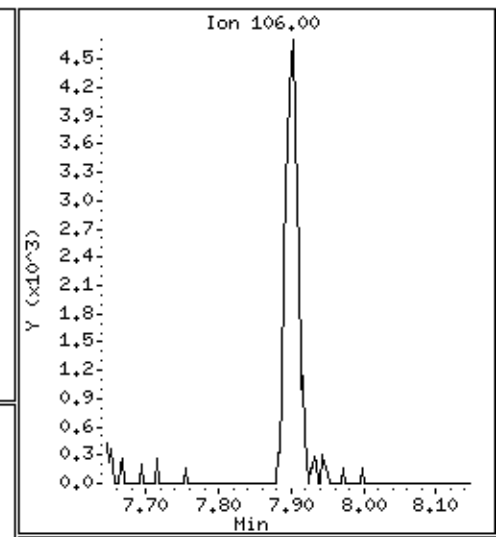
Column phase: DB-624

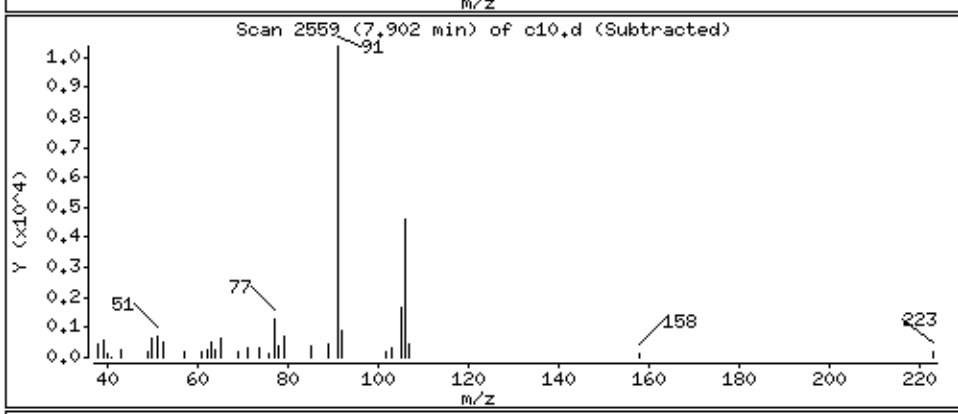
Column diameter: 0.18

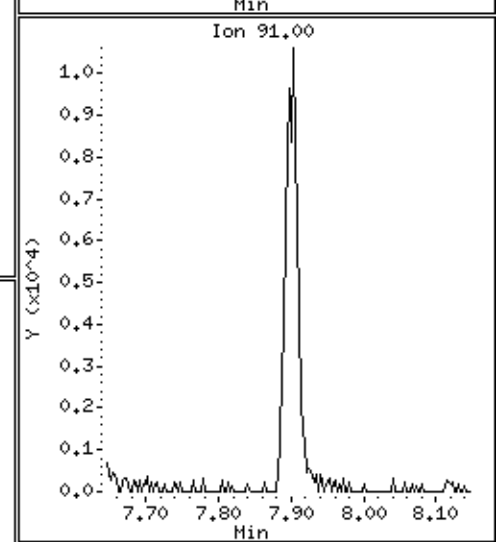
72 o-Xylene

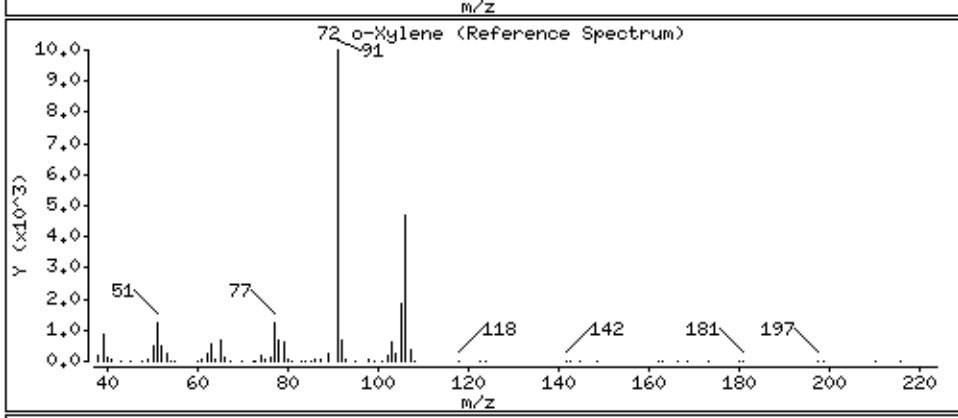
Concentration: 1.53 ppb

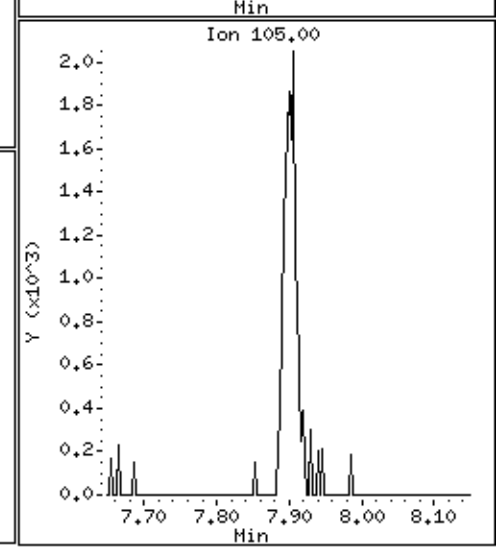


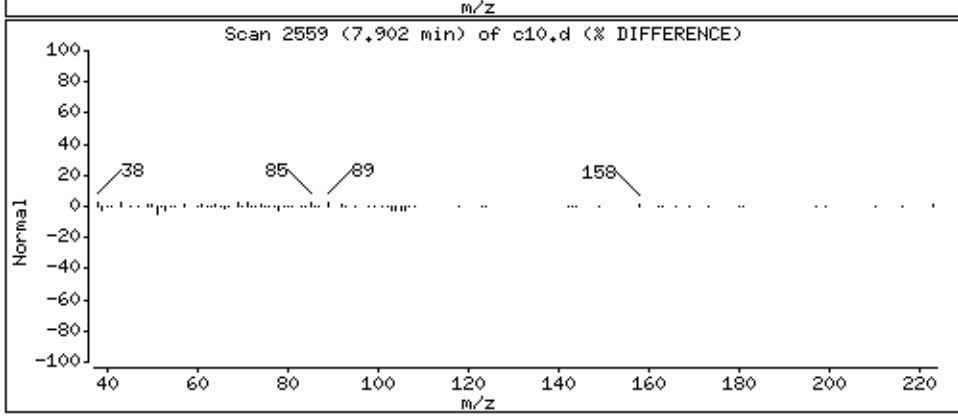












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

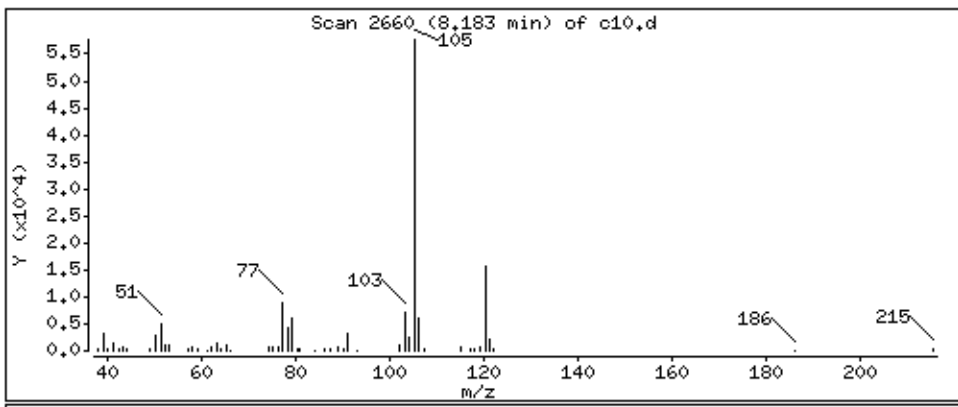
Operator: dae

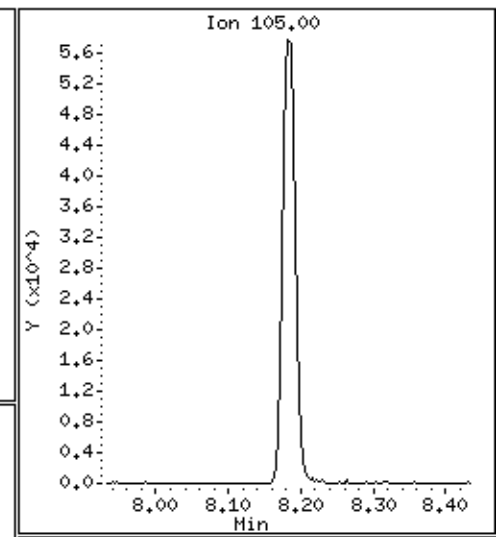
Column phase: DB-624

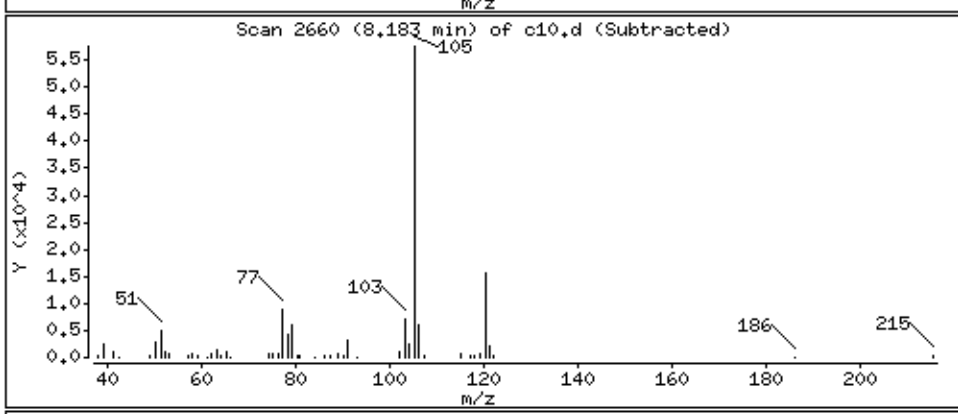
Column diameter: 0.18

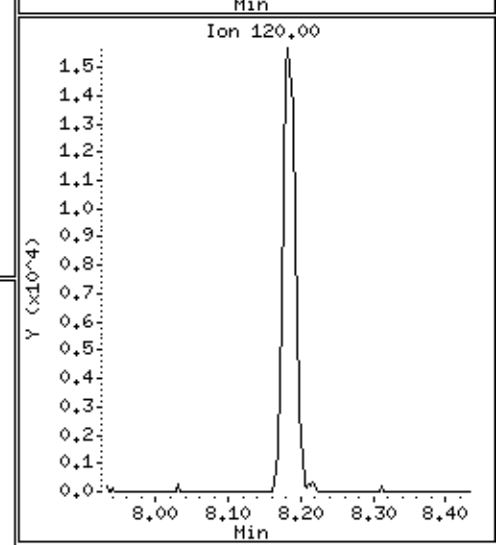
75 Isopropylbenzene

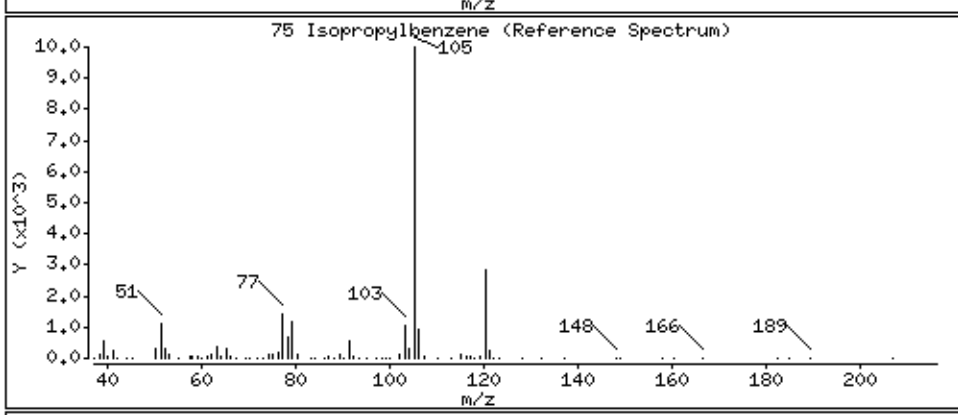
Concentration: 7.20 ppb

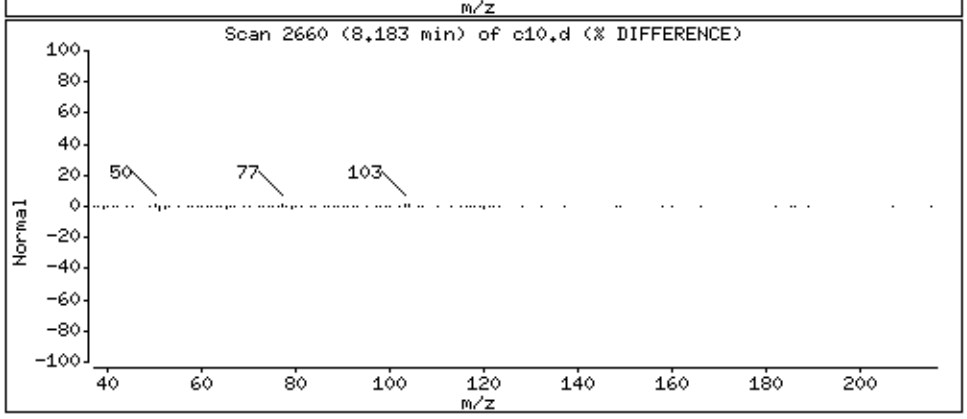












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

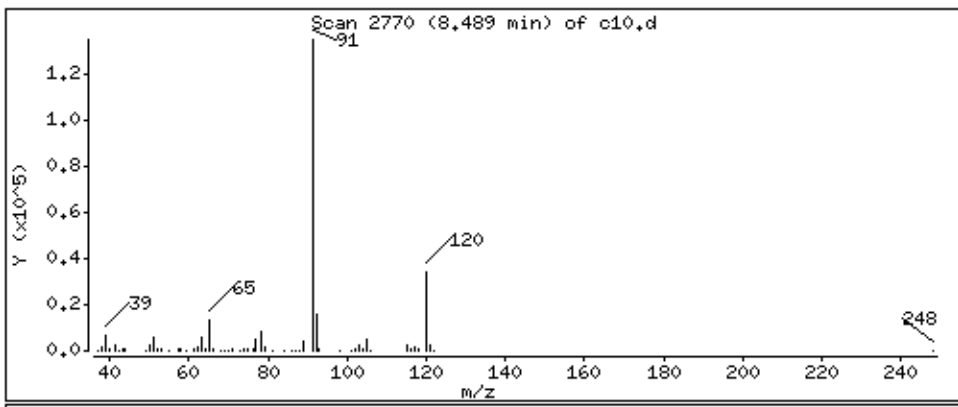
Operator: dae

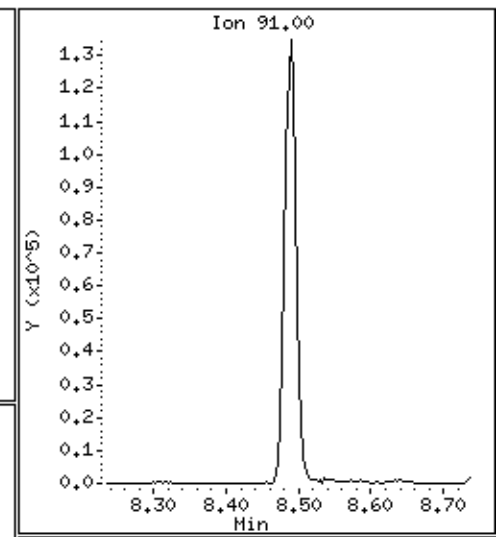
Column phase: DB-624

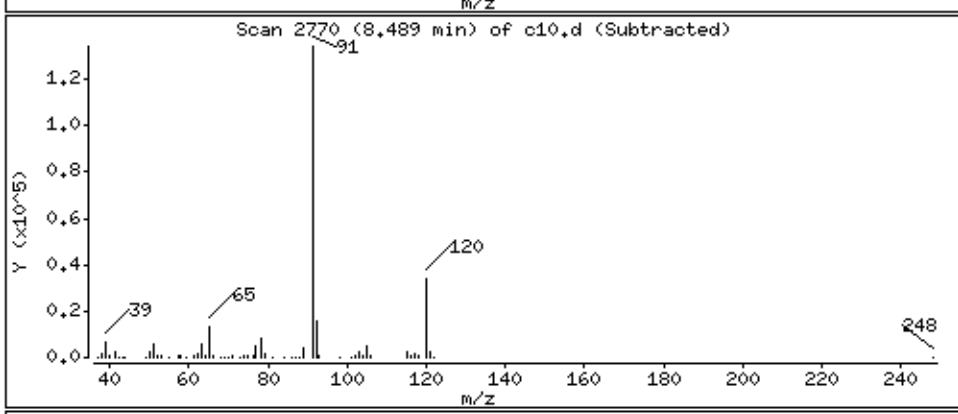
Column diameter: 0.18

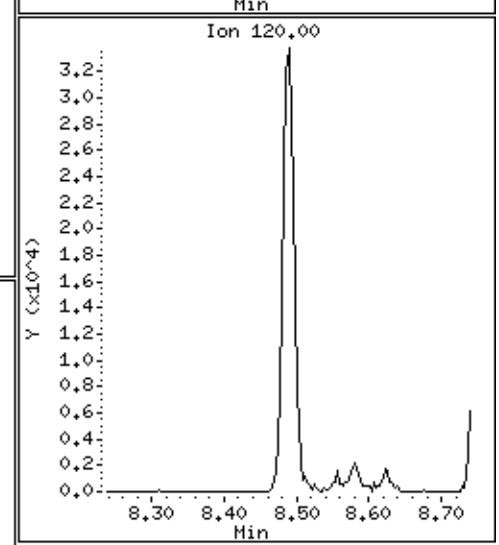
82 n-Propylbenzene

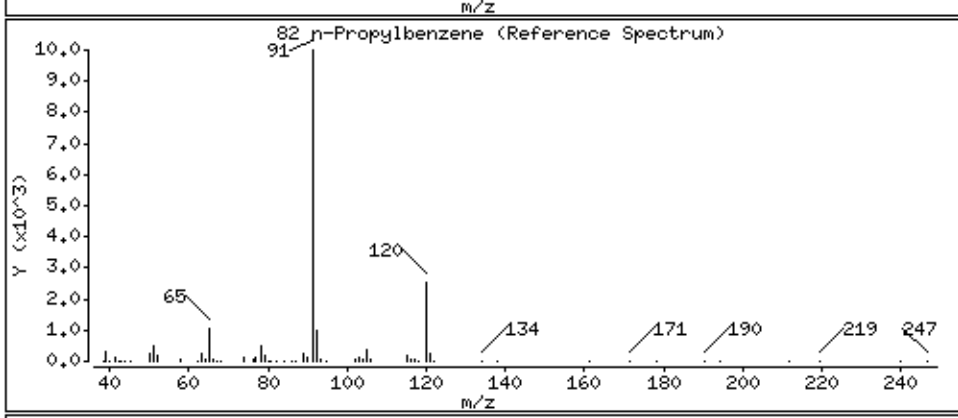
Concentration: 15.1 ppb

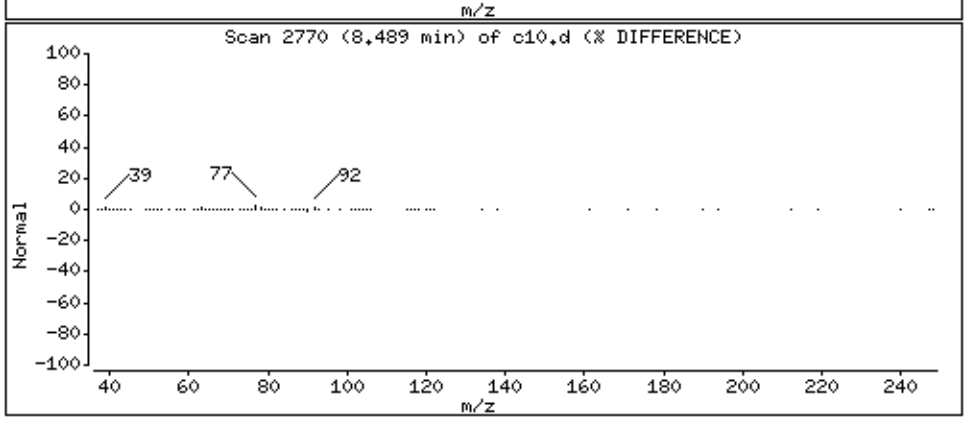












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

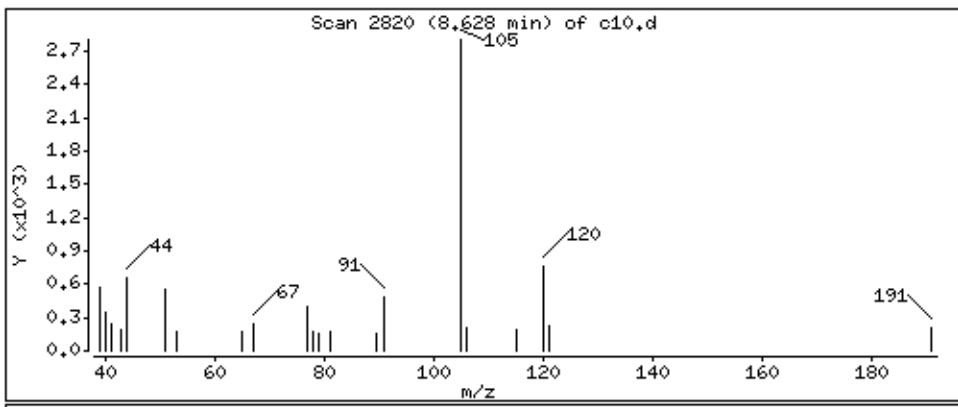
Operator: dae

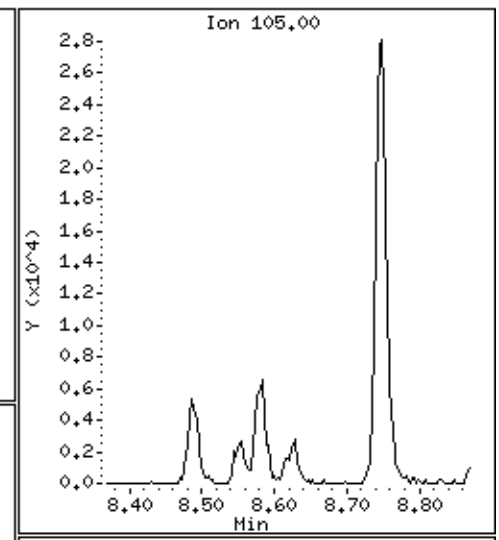
Column phase: DB-624

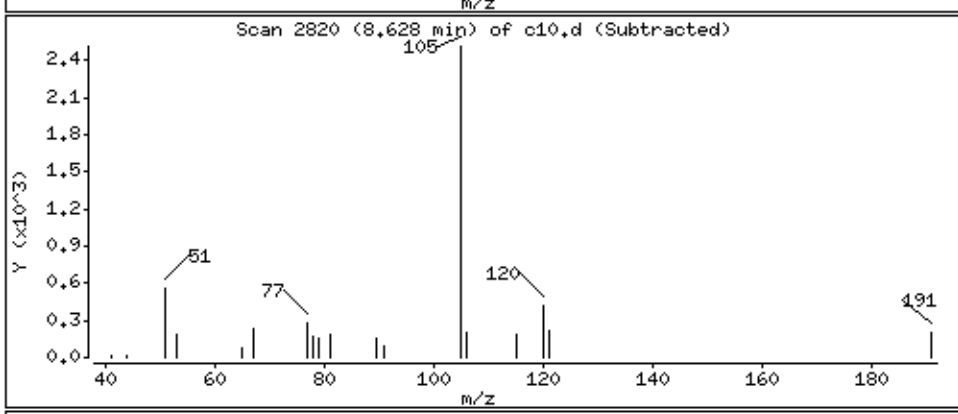
Column diameter: 0.18

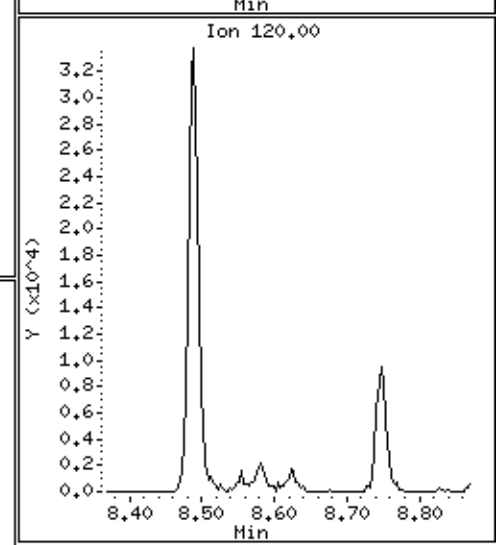
84 1,3,5-Trimethylbenzene

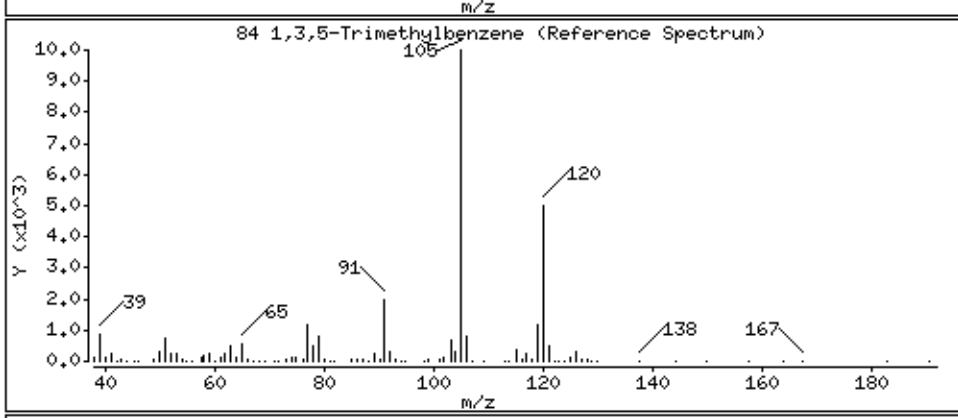
Concentration: 0.411 ppb

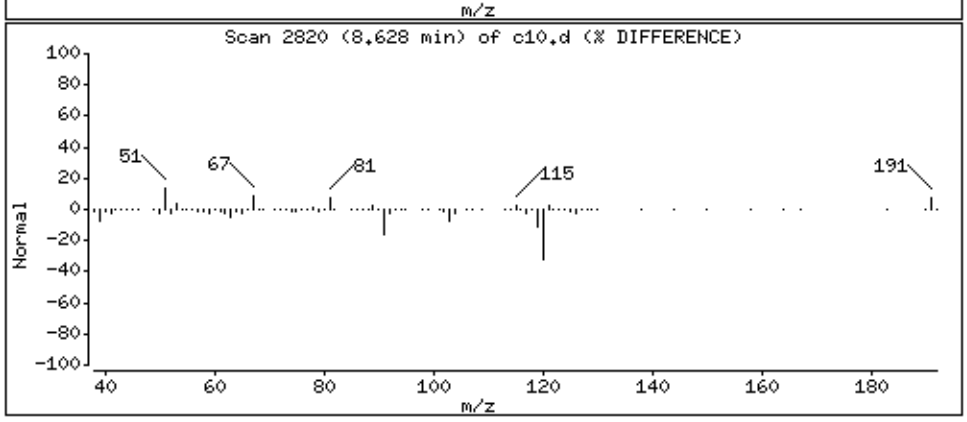












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Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

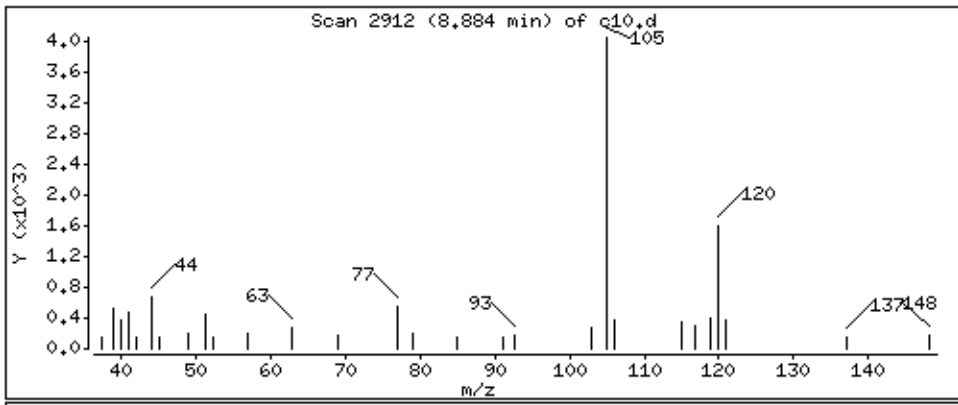
Operator: dae

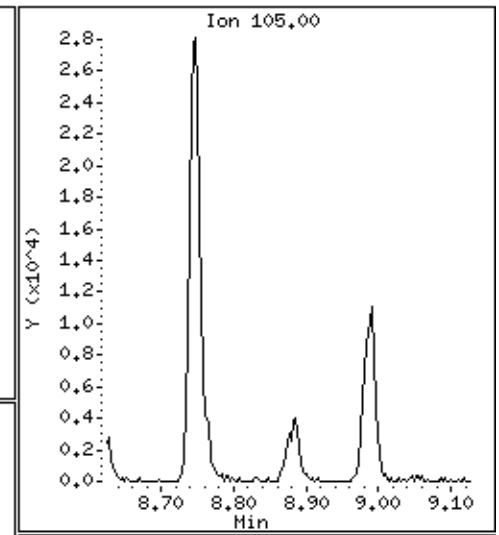
Column phase: DB-624

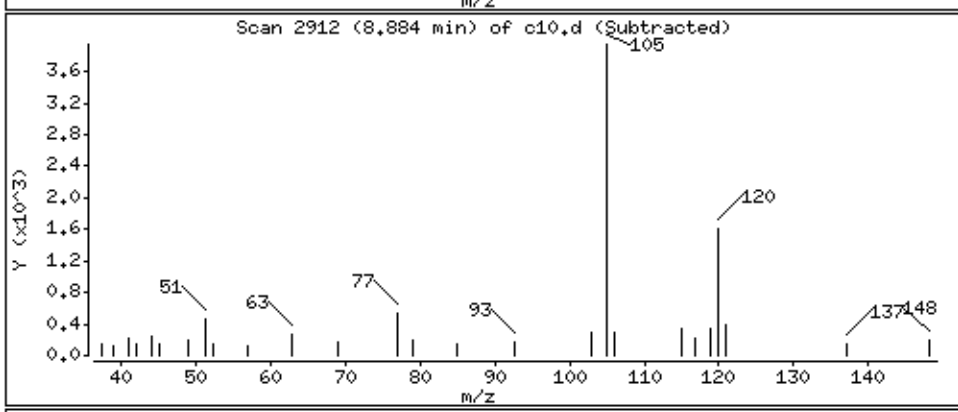
Column diameter: 0.18

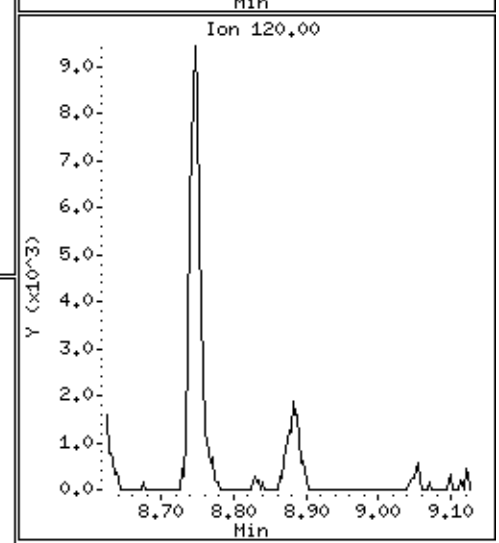
87 1,2,4-Trimethylbenzene

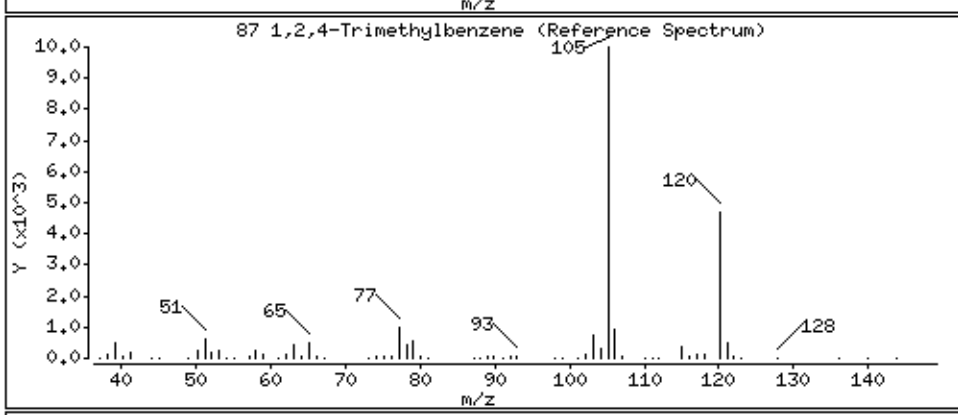
Concentration: 0.647 ppb

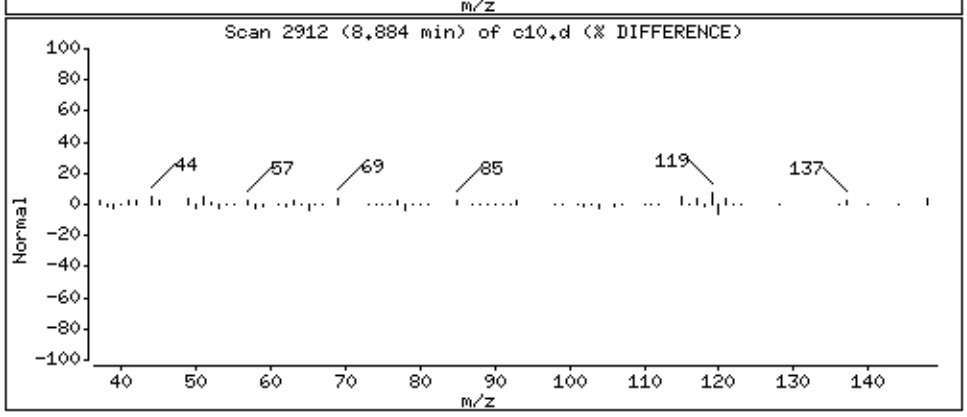












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

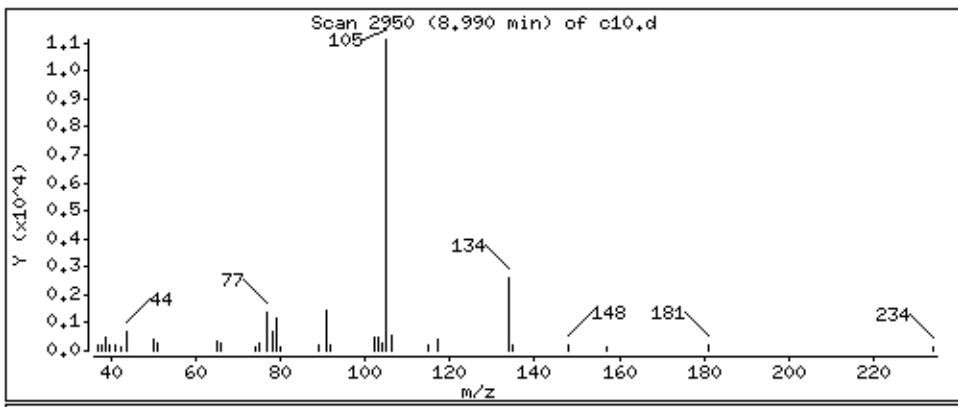
Operator: dae

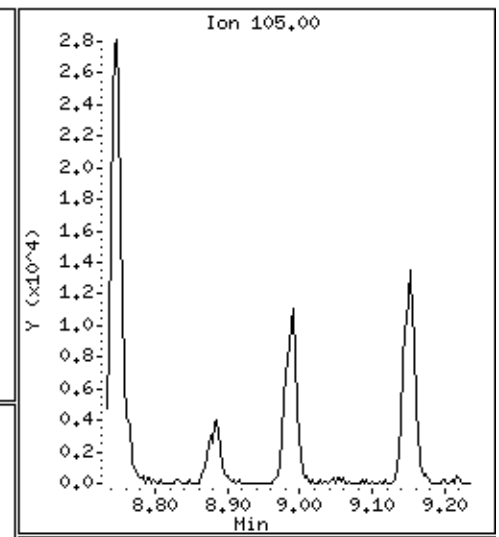
Column phase: DB-624

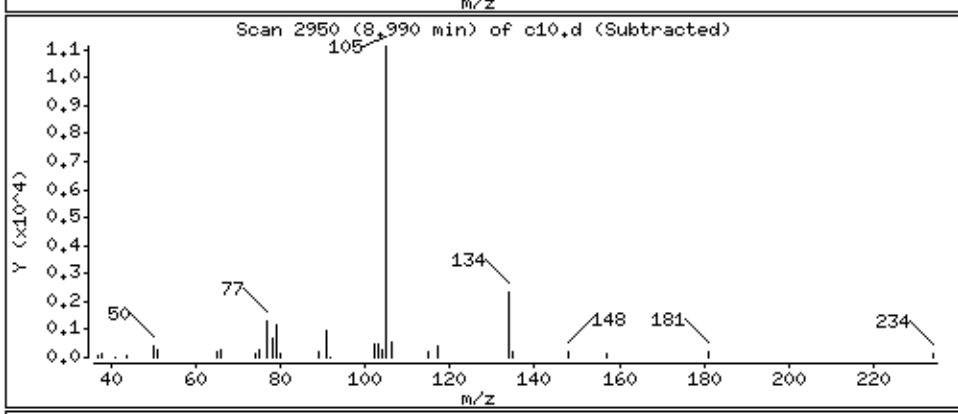
Column diameter: 0.18

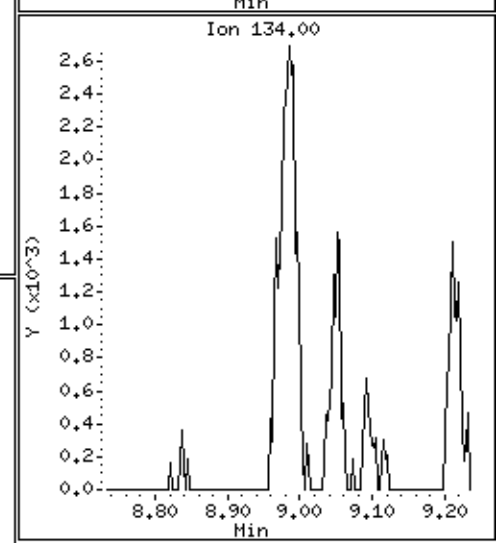
88 sec-Butylbenzene

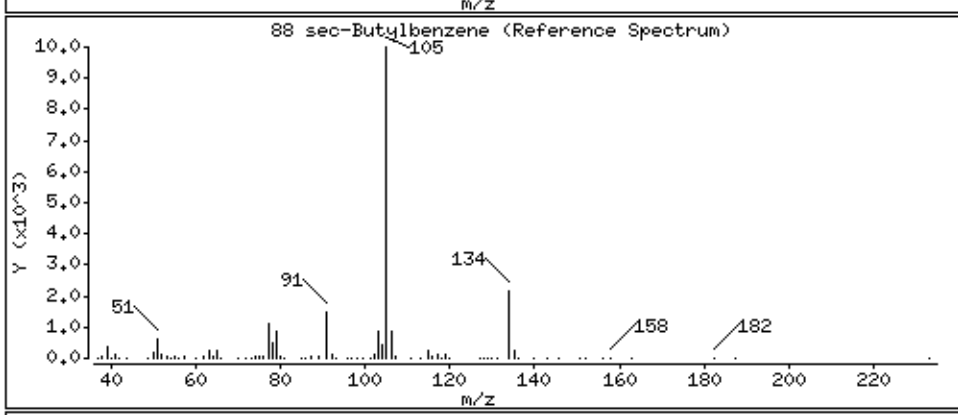
Concentration: 1.35 ppb

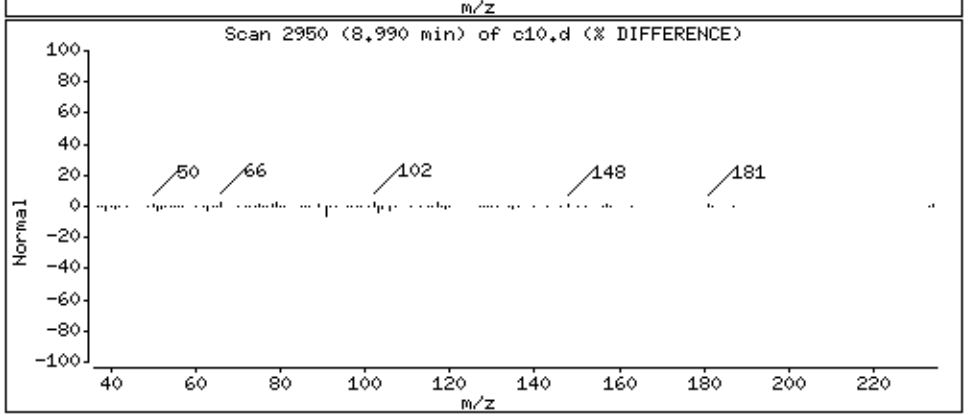












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

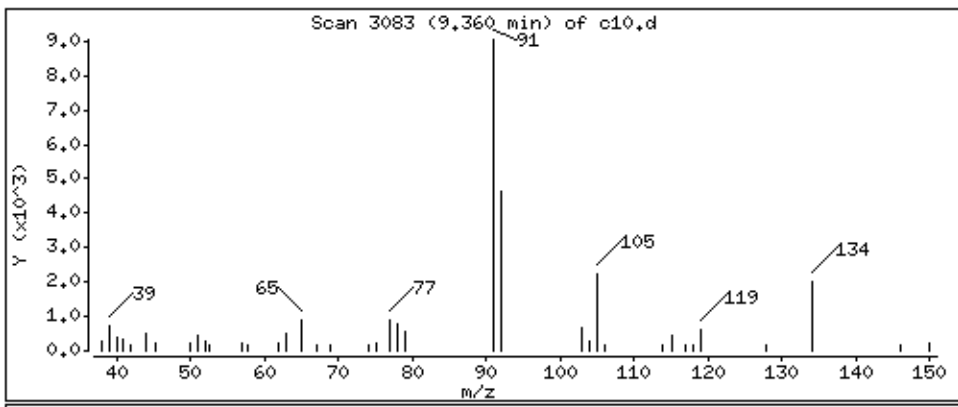
Operator: dae

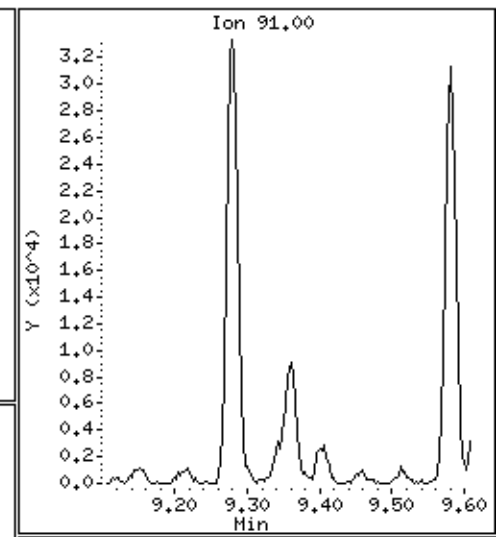
Column phase: DB-624

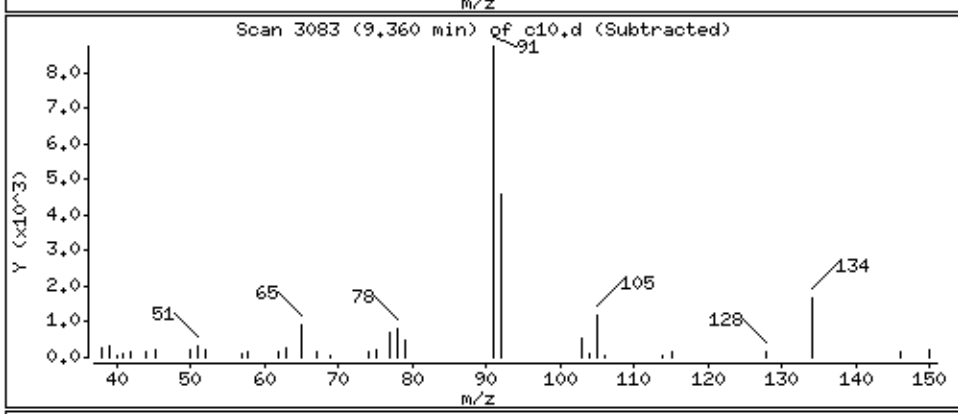
Column diameter: 0.18

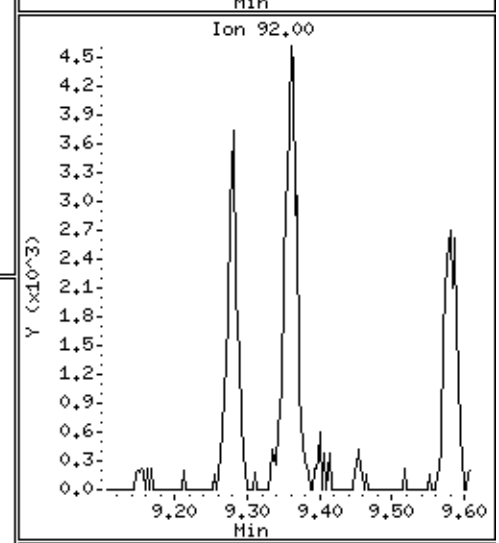
93 n-Butylbenzene

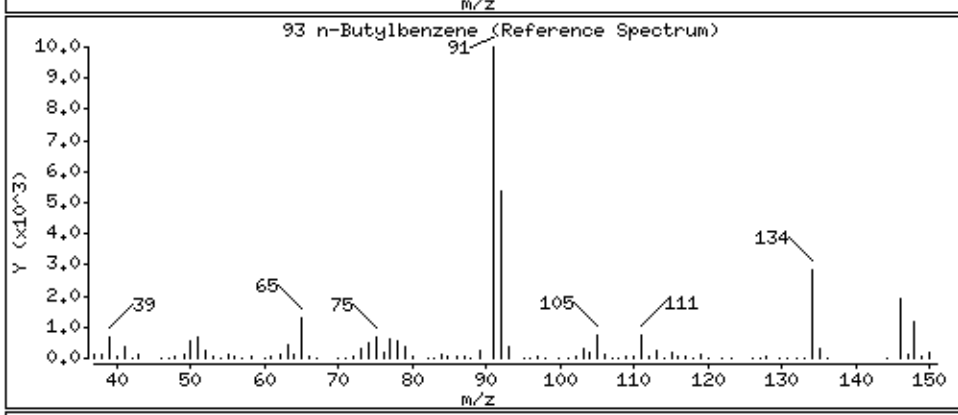
Concentration: 2.04 ppb

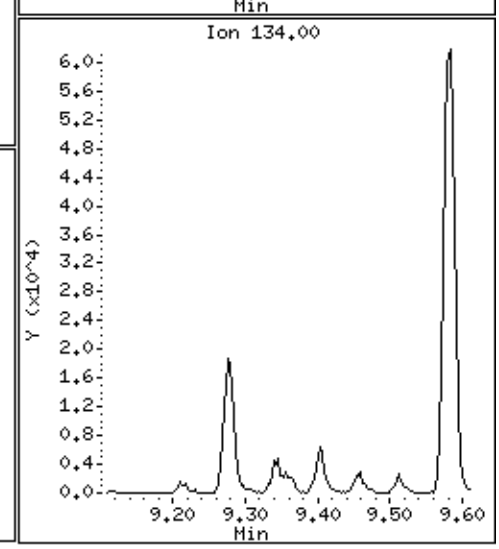


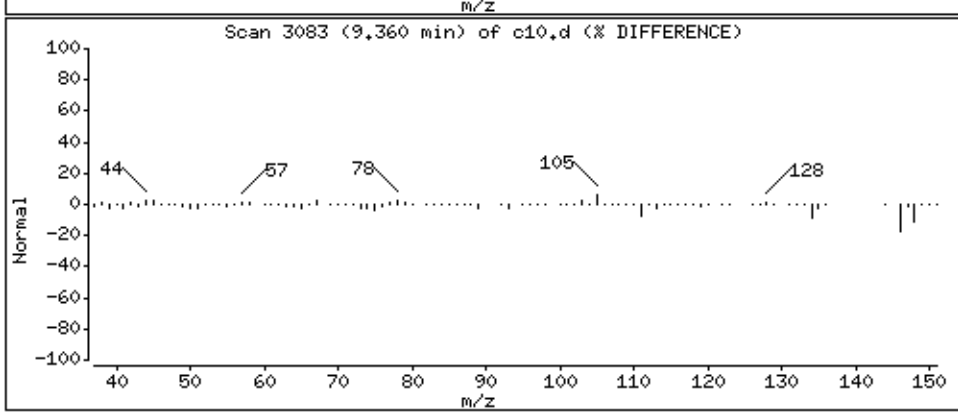












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

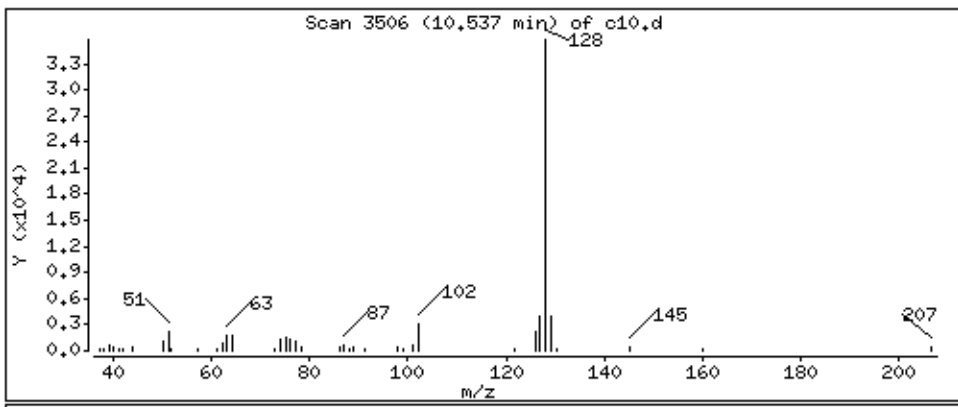
Operator: dae

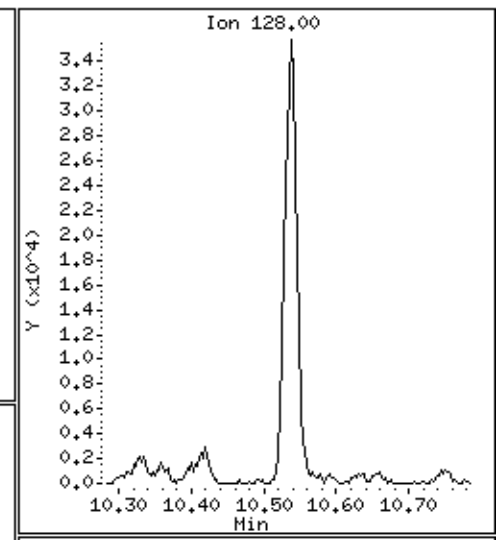
Column phase: DB-624

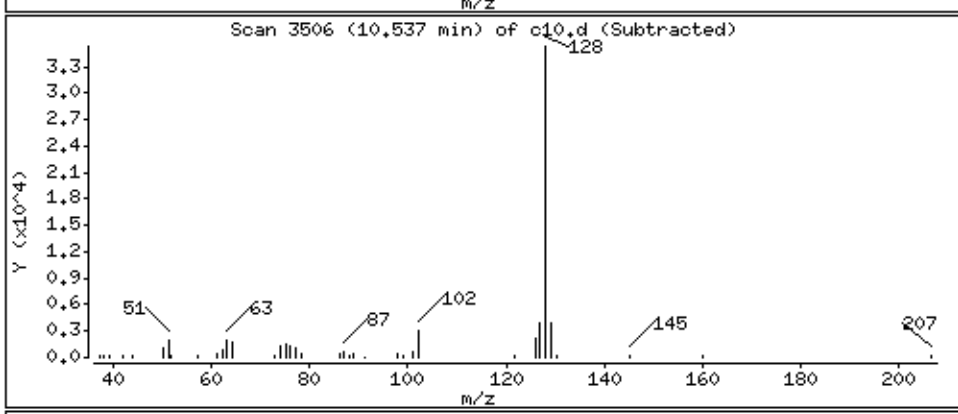
Column diameter: 0.18

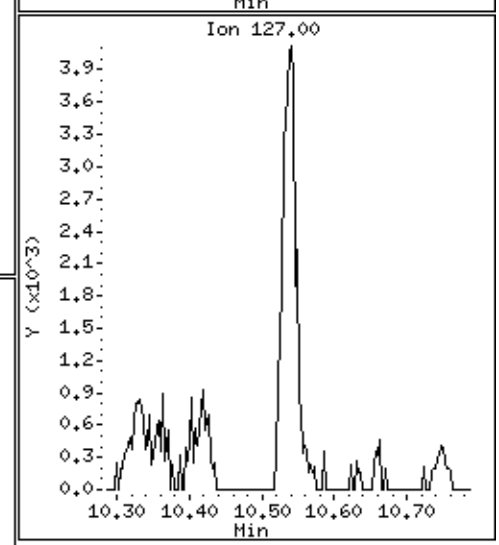
98 Naphthalene

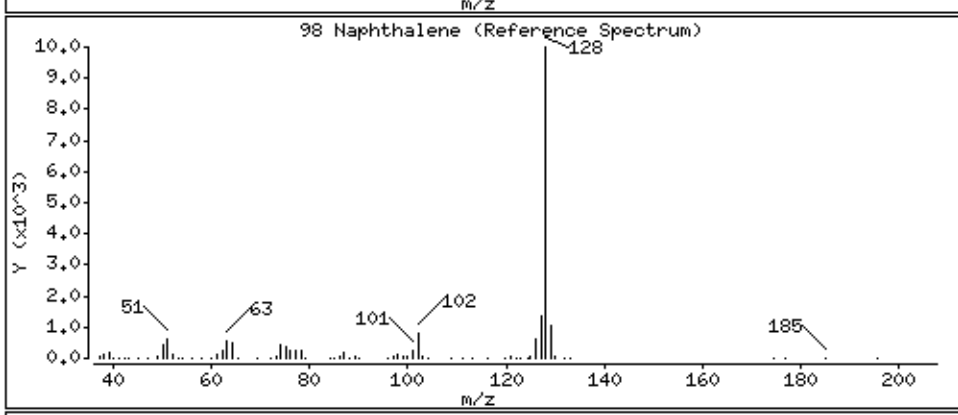
Concentration: 5.04 ppb

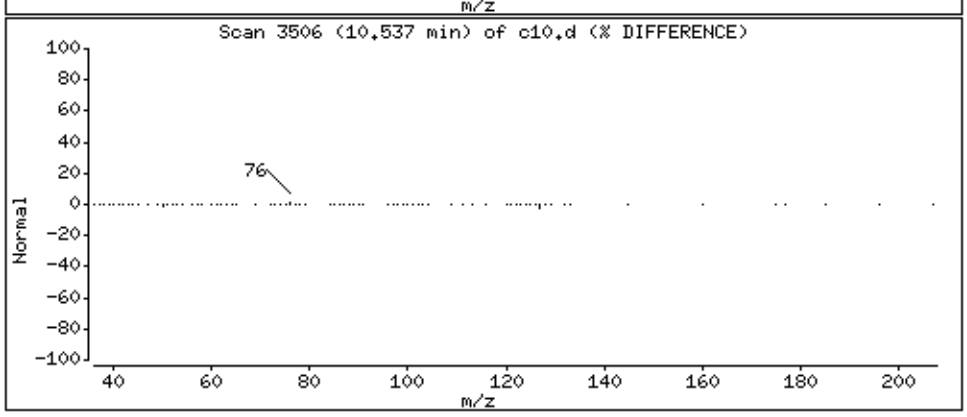












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

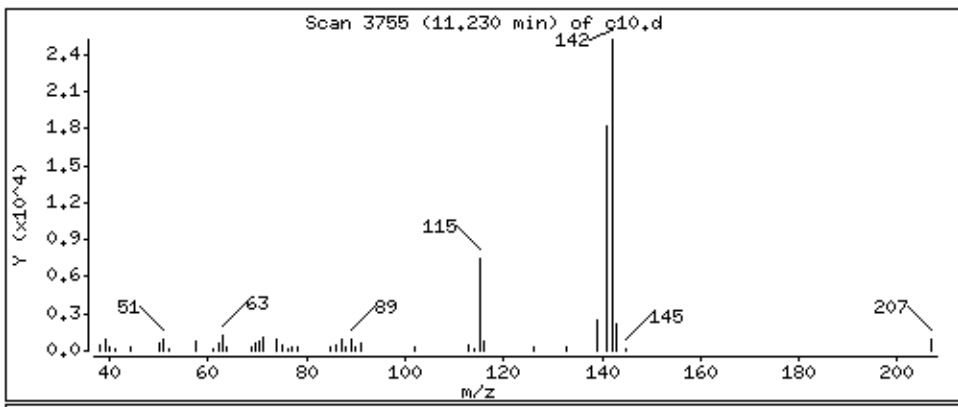
Operator: dae

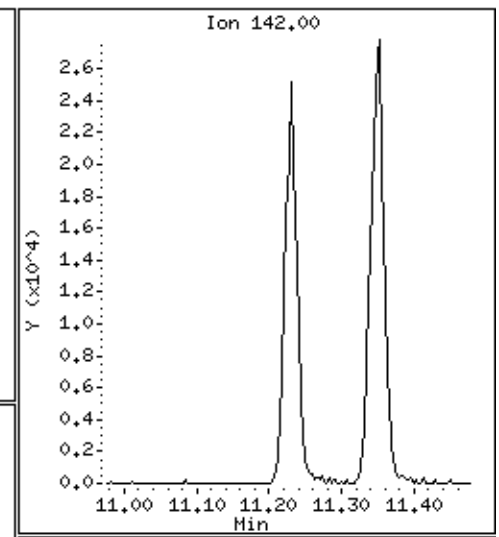
Column phase: DB-624

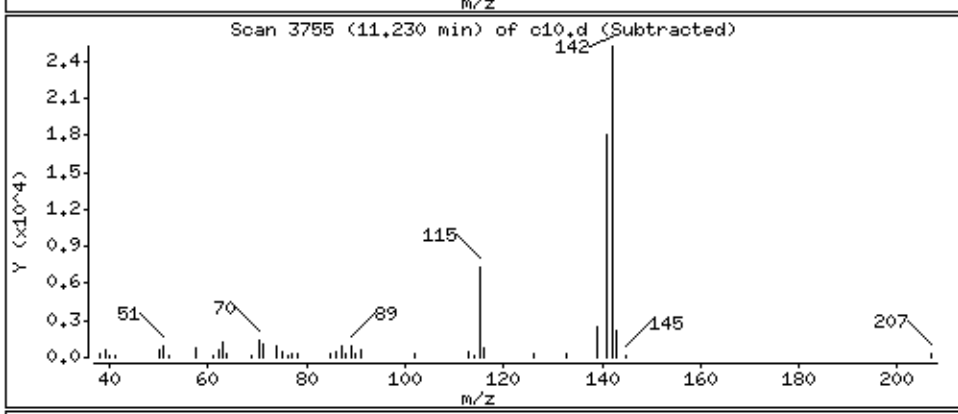
Column diameter: 0.18

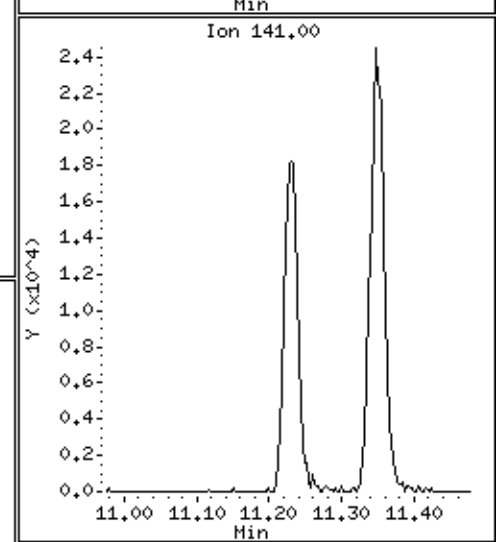
100 2,methyl-naphthalene

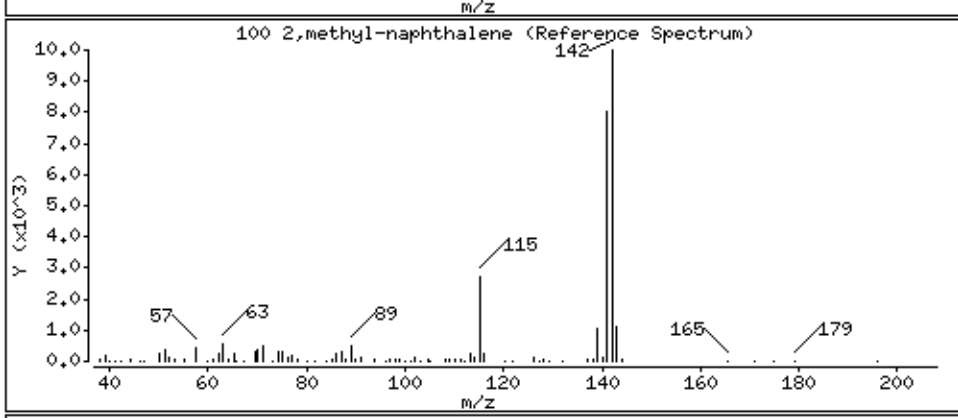
Concentration: 6.24 ppb

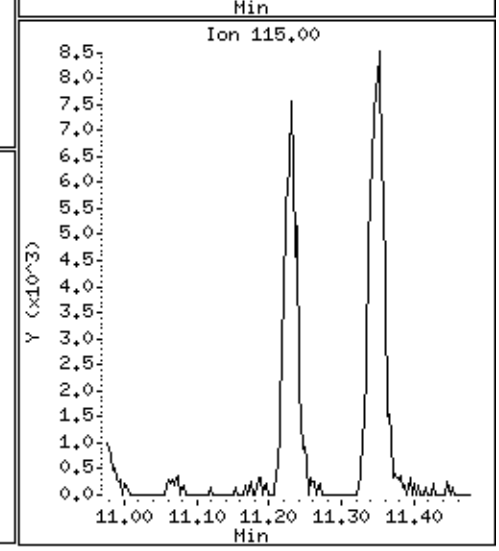


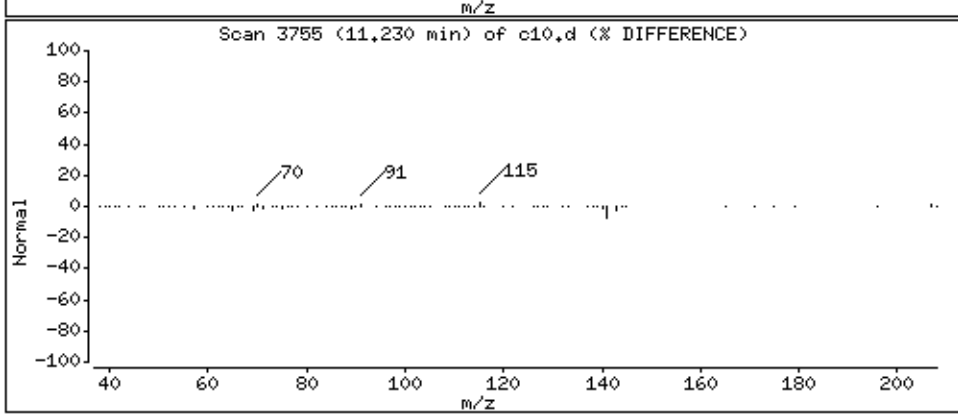












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c10.d

Date : 25-JAN-2017 18:07

Client ID: MW-3

Instrument: 50mv2a.i

Sample Info: 50163373003

Purge Volume: 5.0

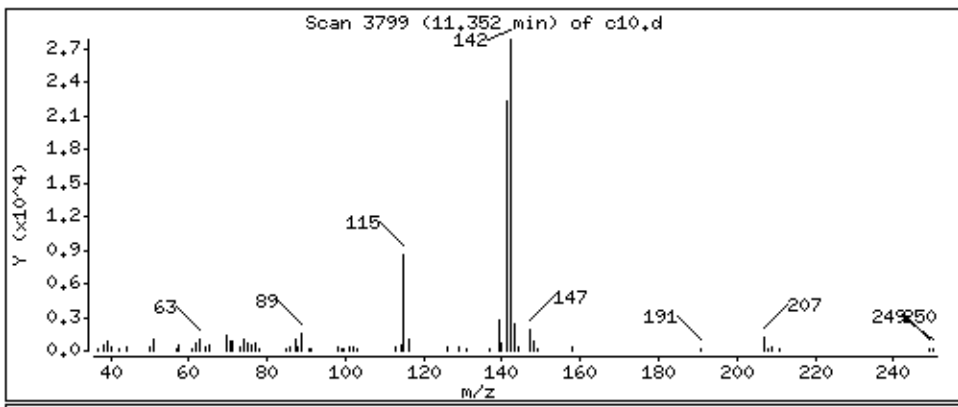
Operator: dae

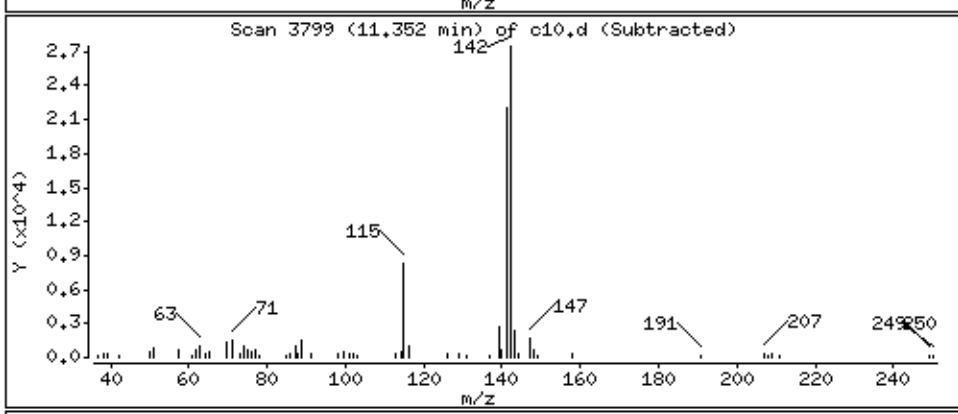
Column phase: DB-624

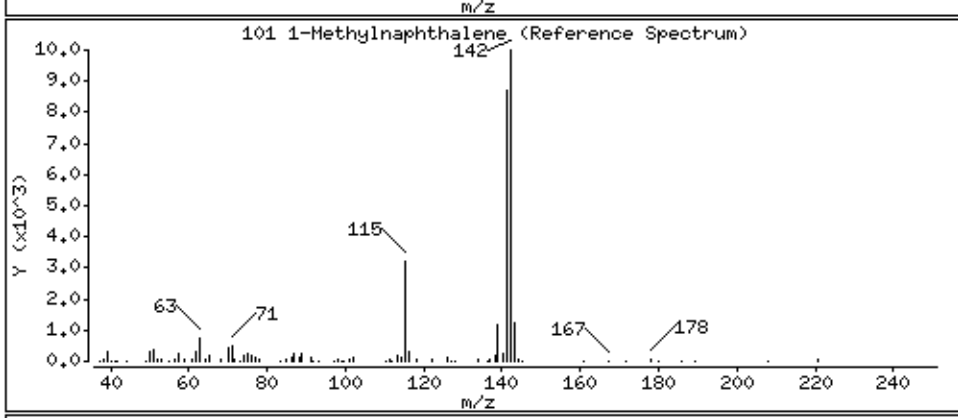
Column diameter: 0.18

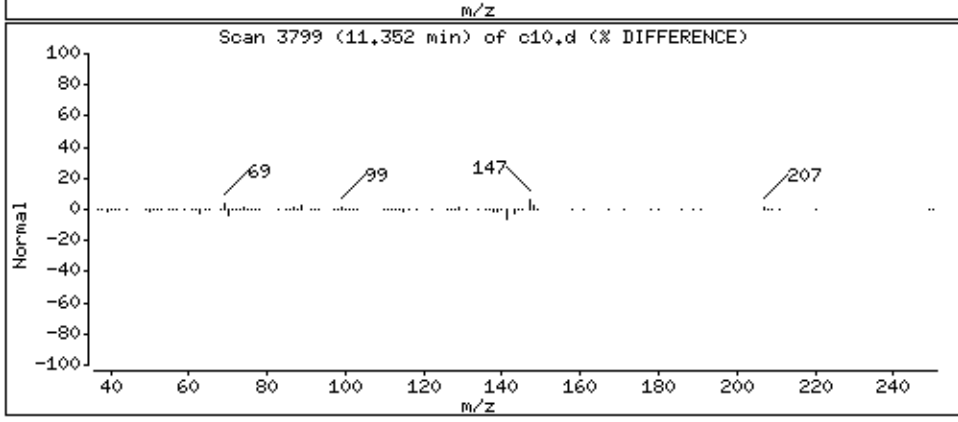
101 1-Methylnaphthalene

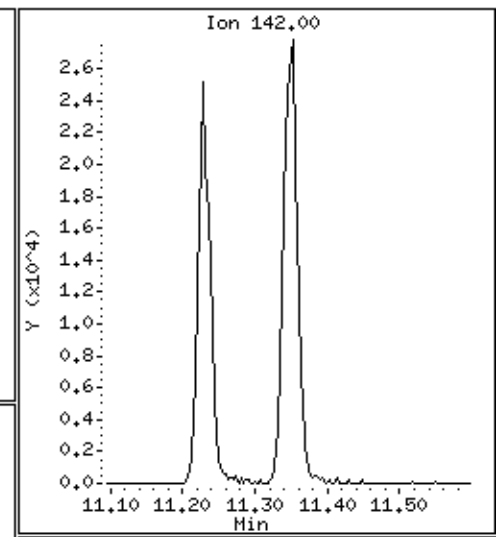
Concentration: 8.99 ppb

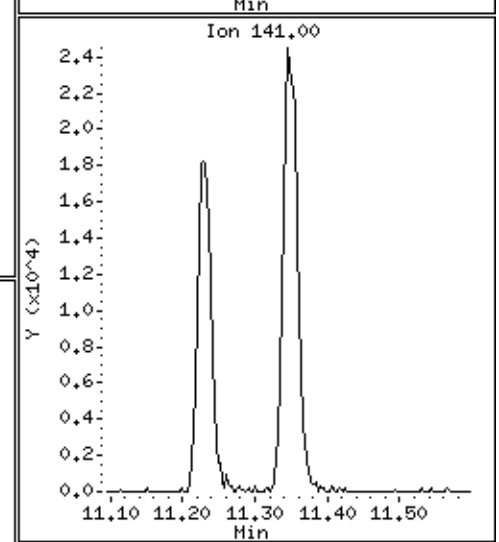


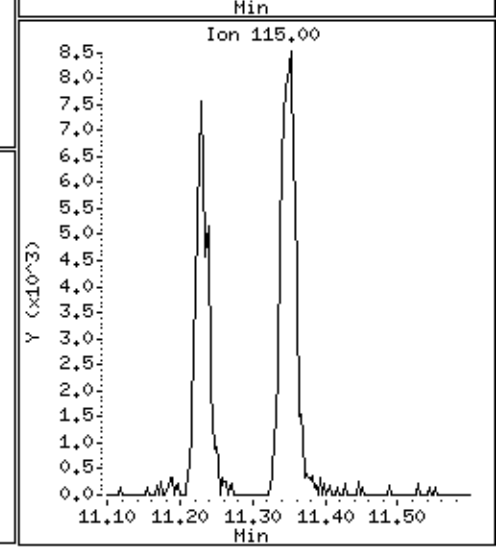












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/c10.d
Injection Date: 25-JAN-2017 18:07
Instrument: 50mv2a.i
Lab Sample ID: 50163373003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-1

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 18:39
Lab Sample ID: 50163373004
Date Analyzed: 01/25/2017 18:39
Lab File ID: A012417.B\C11.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	5.1	
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

FD-1

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 18:39
Lab Sample ID: 50163373004
Date Analyzed: 01/25/2017 18:39
Lab File ID: A012417.B\C11.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	13.6	
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	7.4	
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	8.7	
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	5.8	
91-20-3	Naphthalene	4.0	
103-65-1	n-Propylbenzene	16.4	
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c11.d
Lab Smp Id: 50163373004 Client Smp ID: FD-1
Inj Date : 25-JAN-2017 18:39
Operator : dae Inst ID: 50mv2a.i
Smp Info : 50163373004
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.555	1.553	(0.382)	13617	15.2720	15.3	
13 Iodomethane	142	1.633	1.625	(0.402)	3239	1.74522	1.74	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	2005	0.81813	0.818(Q)	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	42288	5.76259	5.76	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	81539	47.9591	48.0	
38 cyclohexane	56	3.316	3.311	(0.815)	9562	2.47740	2.48	
150 n-butyl chloride	56	3.369	3.378	(0.828)	4443	0.92634	0.926(Q)	
41 Benzene	78	3.659	3.653	(0.899)	45608	5.05419	5.05	
43 2,2,4-Trimethylpentane	57	3.837	3.828	(0.943)	9209	1.58670	1.59(Q)	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	337090	50.0000		
47 Trichloroethene	95	4.529	4.527	(1.114)	1981	0.88973	0.890	
48 Methylcyclohexane	55	4.794	4.791	(1.179)	5848	2.23566	2.24	
$ 57 Toluene-d8	98	5.948	5.946	(0.807)	318890	49.8170	49.8	
58 Toluene	91	6.029	6.021	(0.818)	13396	1.48554	1.48	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	246566	50.0000		
70 Ethylbenzene	106	7.484	7.484	(1.016)	42518	13.6425	13.6	
71 m&p-Xylene	106	7.595	7.596	(1.031)	25284	6.71547	6.72	
72 o-Xylene	106	7.902	7.896	(1.073)	4917	1.41851	1.42	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	64644	7.35962	7.36	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	112887	51.4883	51.5	
82 n-Propylbenzene	91	8.486	8.486	(0.931)	144965	16.4278	16.4	
84 1,3,5-Trimethylbenzene	105	8.619	8.620	(0.945)	2404	0.36824	0.368	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.881	8.875	(0.974)	3863	0.57195	0.572	
88 sec-Butylbenzene	105	8.987	8.984	(0.986)	10219	1.28315	1.28	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	1439	0.21784	0.218(Q)	
* 91 1,4-Dichlorobenzene-d4	152	9.117	9.118	(1.000)	121943	50.0000		
93 n-Butylbenzene	91	9.357	9.357	(1.026)	10676	1.93943	1.94(Q)	
98 Naphthalene	128	10.539	10.534	(1.156)	29908	3.99507	4.00	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	21958	5.19743	5.20	
101 1-Methylnaphthalene	142	11.349	11.346	(1.245)	32473	8.67245	8.67	

QC Flag Legend

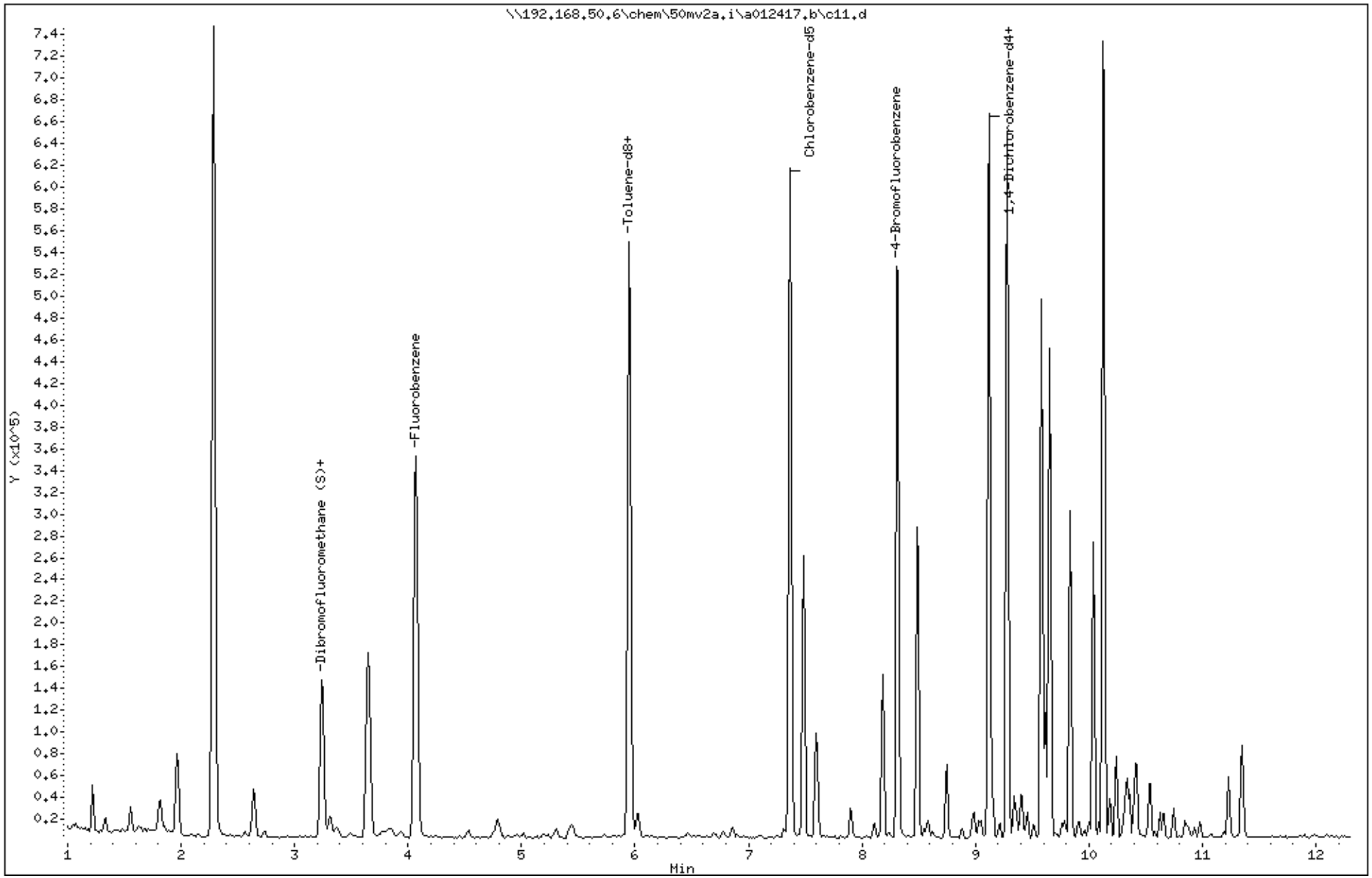
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c11.d
Date : 25-JAN-2017 18:39
Client ID: FD-1
Sample Info: 50163373004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

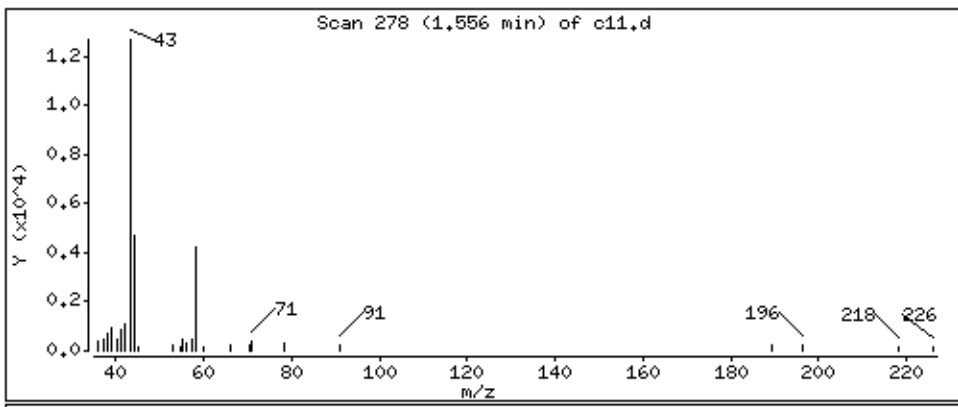
Operator: dae

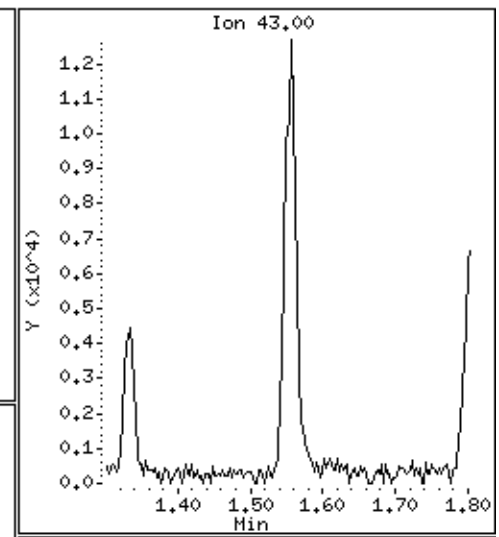
Column phase: DB-624

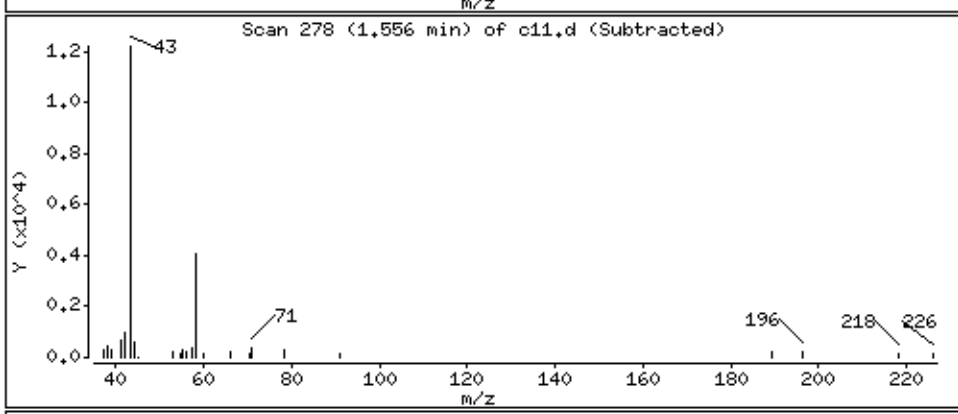
Column diameter: 0.18

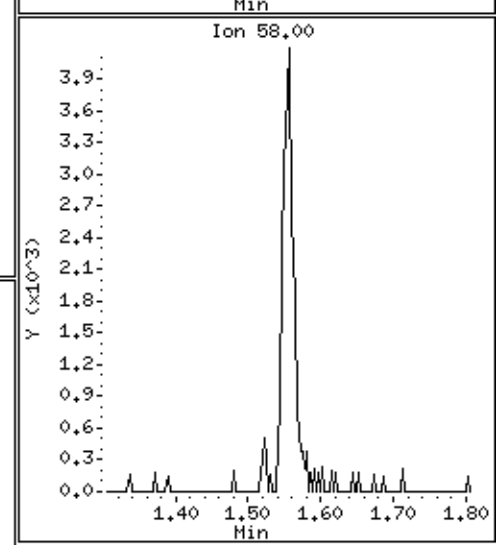
12 Acetone

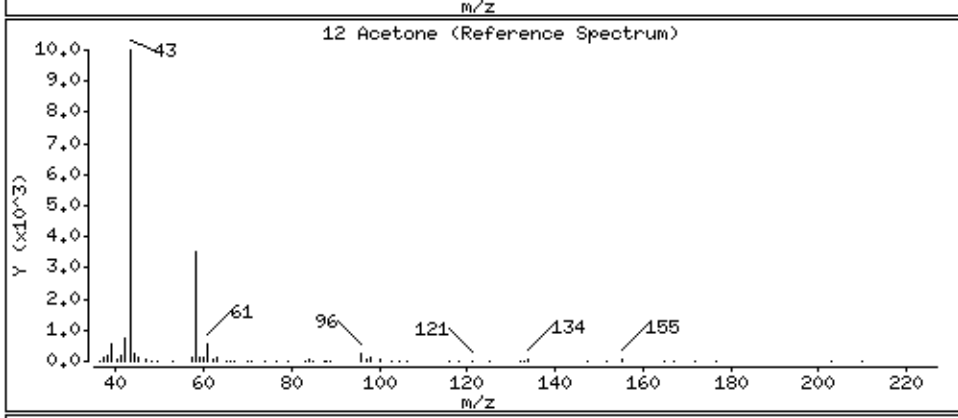
Concentration: 15.3 ppb

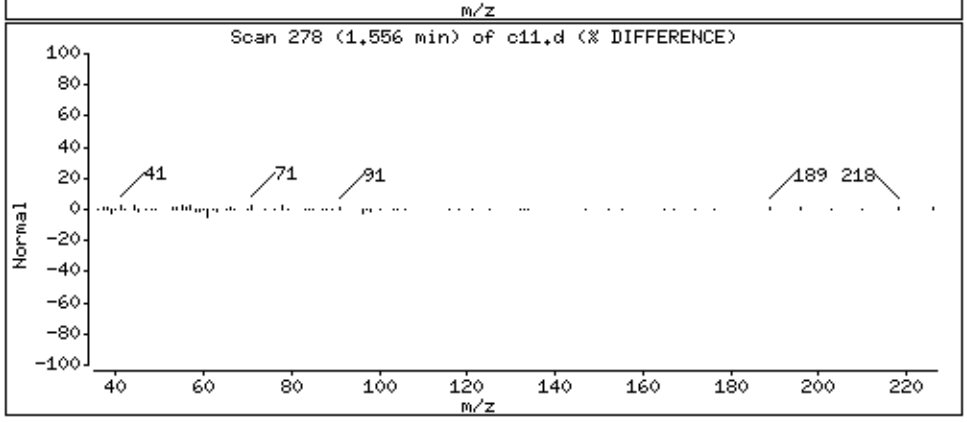












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

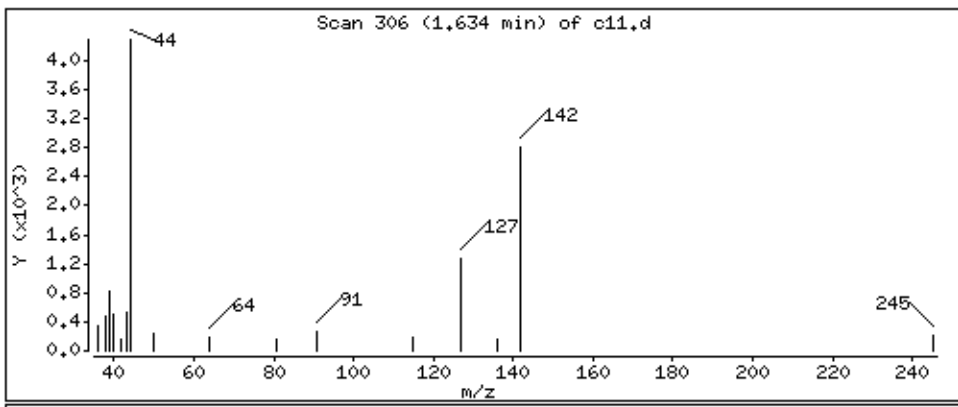
Operator: dae

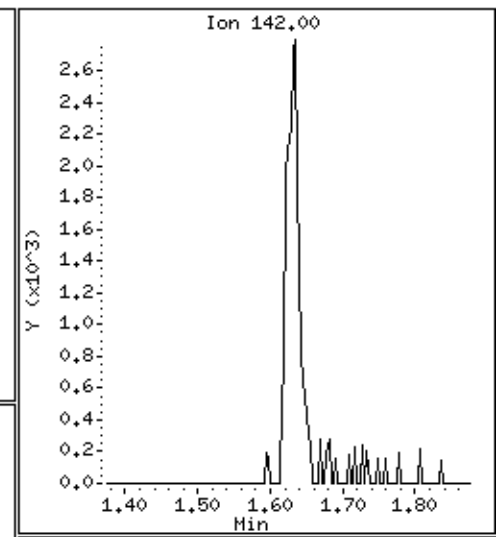
Column phase: DB-624

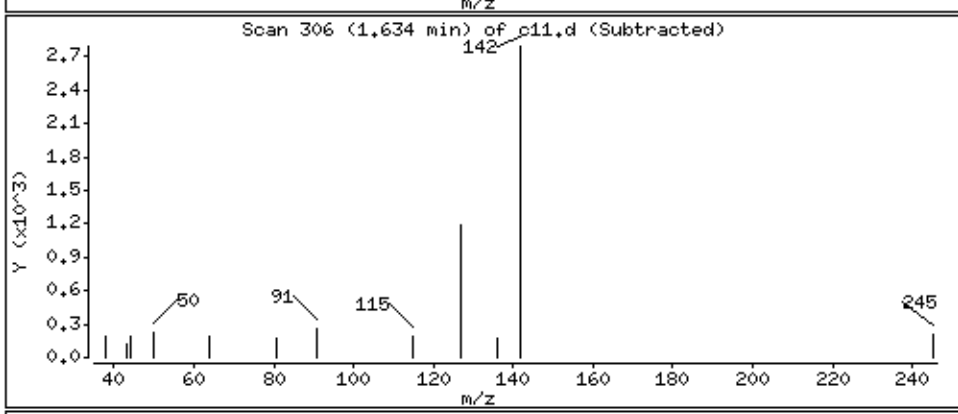
Column diameter: 0.18

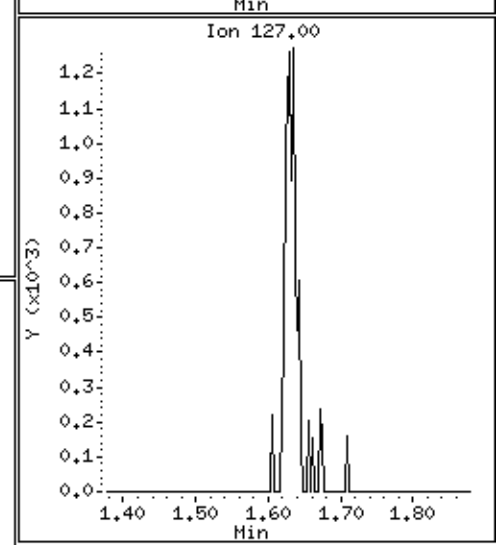
13 Iodomethane

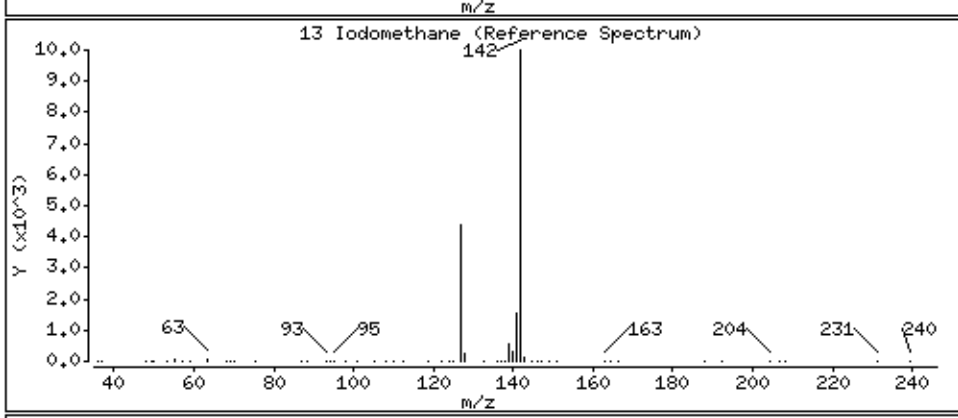
Concentration: 1.74 ppb

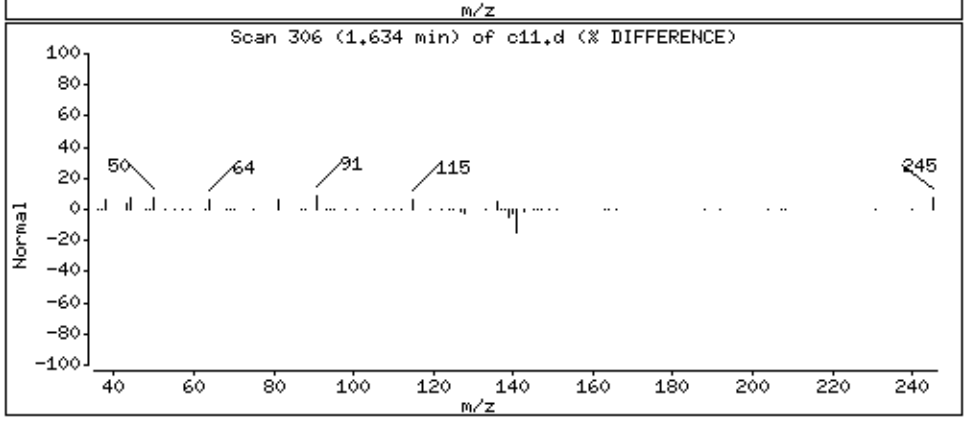












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

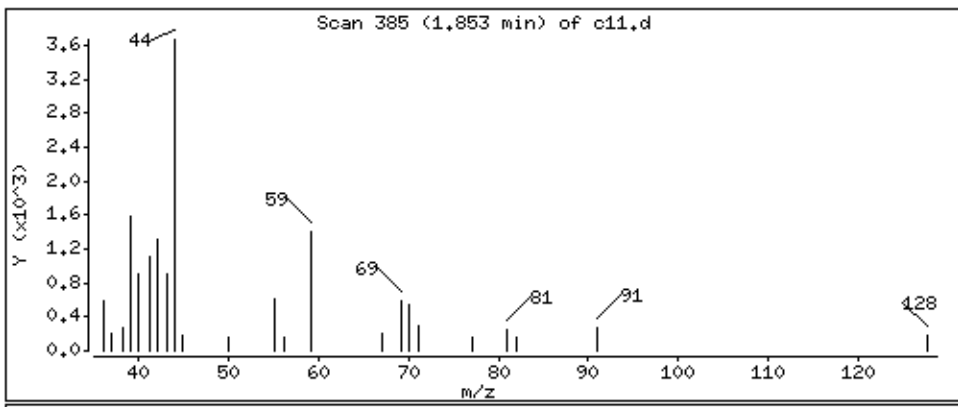
Operator: dae

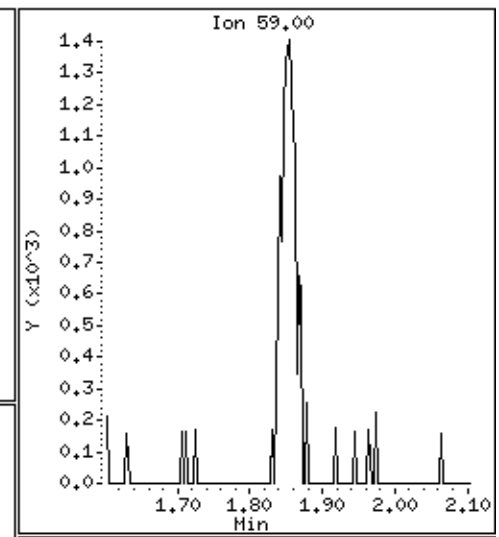
Column phase: DB-624

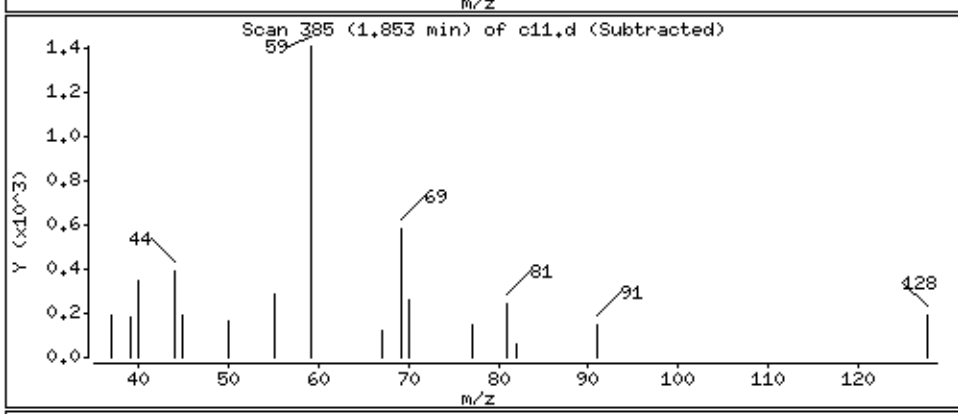
Column diameter: 0.18

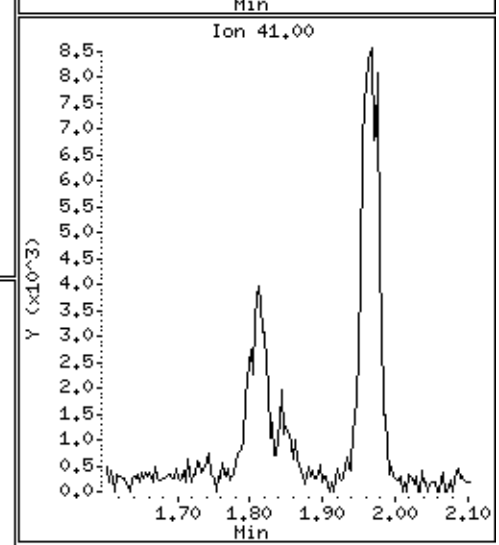
19 tert-Butyl Alcohol

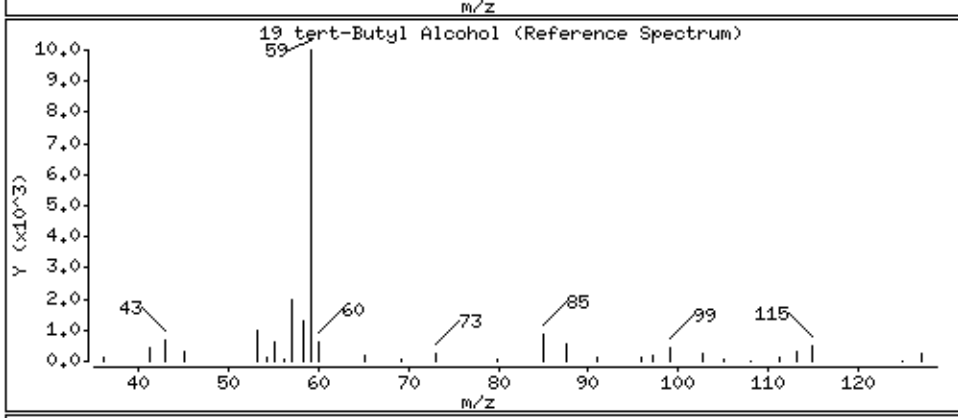
Concentration: 0.818 ppb

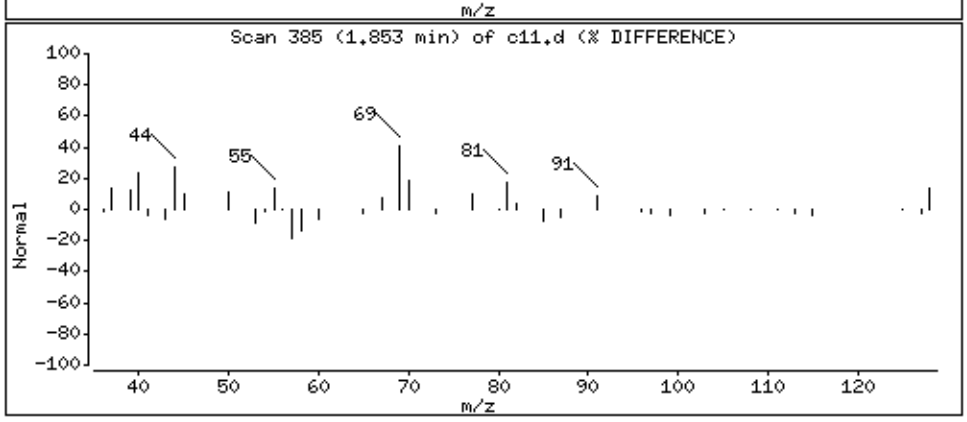












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

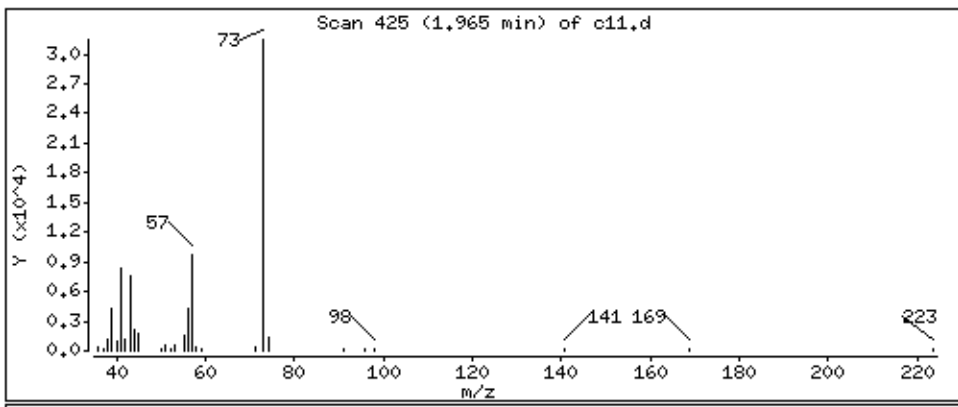
Operator: dae

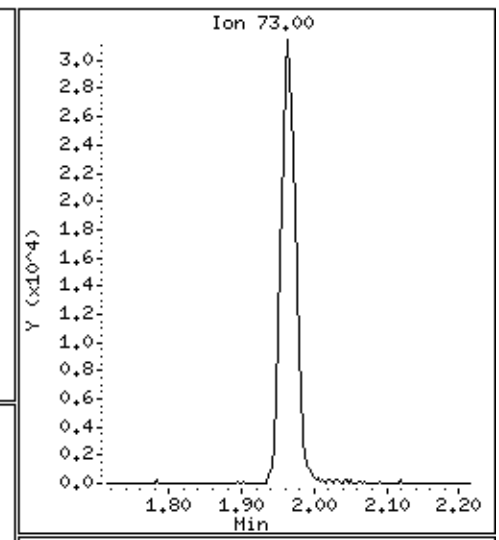
Column phase: DB-624

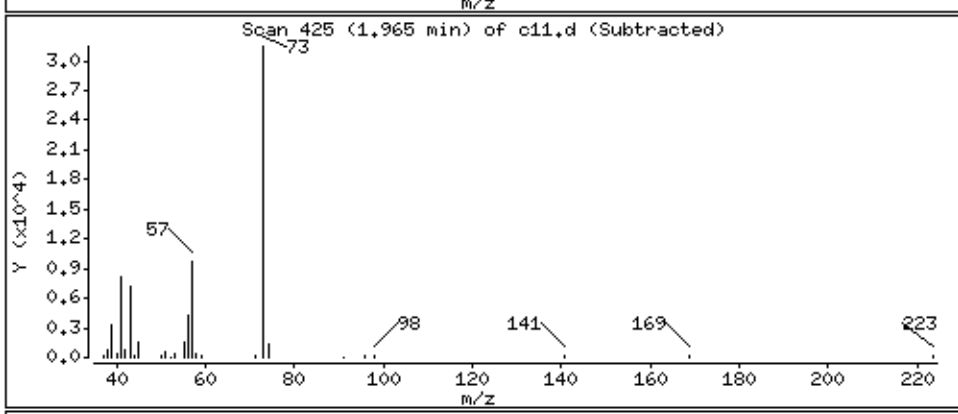
Column diameter: 0.18

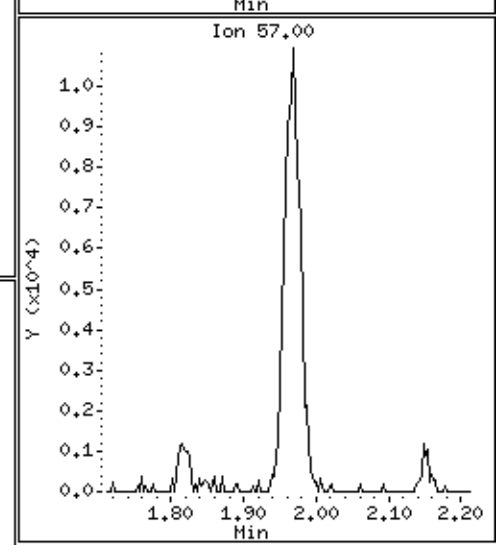
21 Methyl-tert-butyl ether

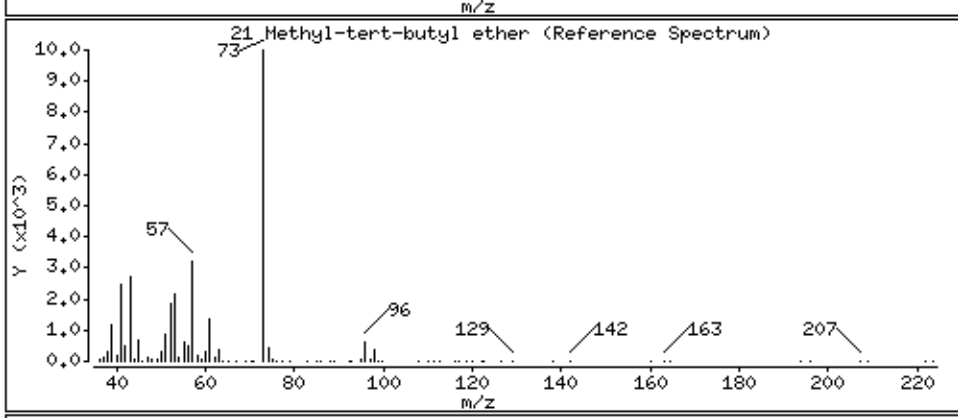
Concentration: 5.76 ppb

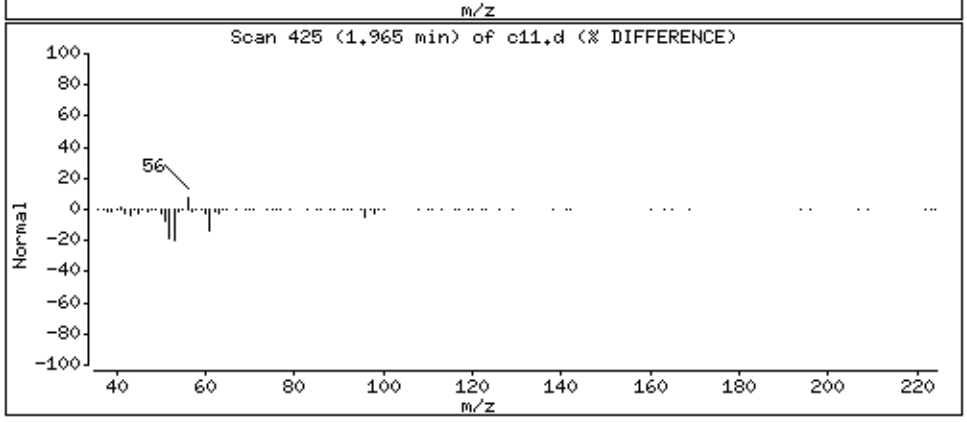












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

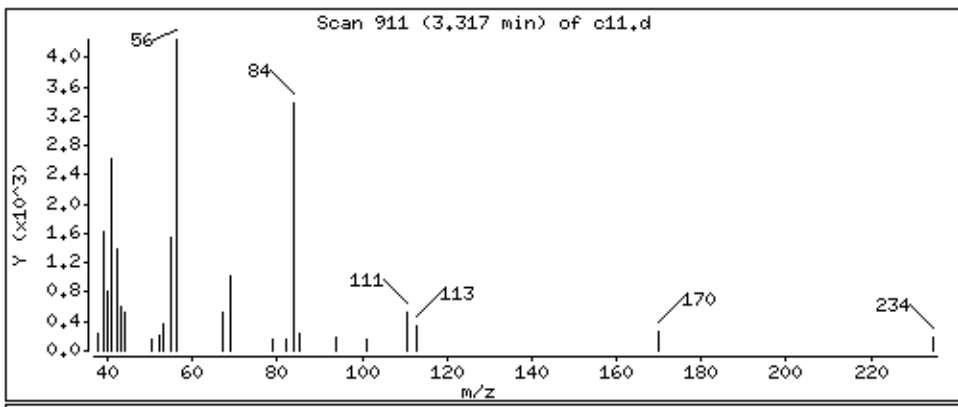
Operator: dae

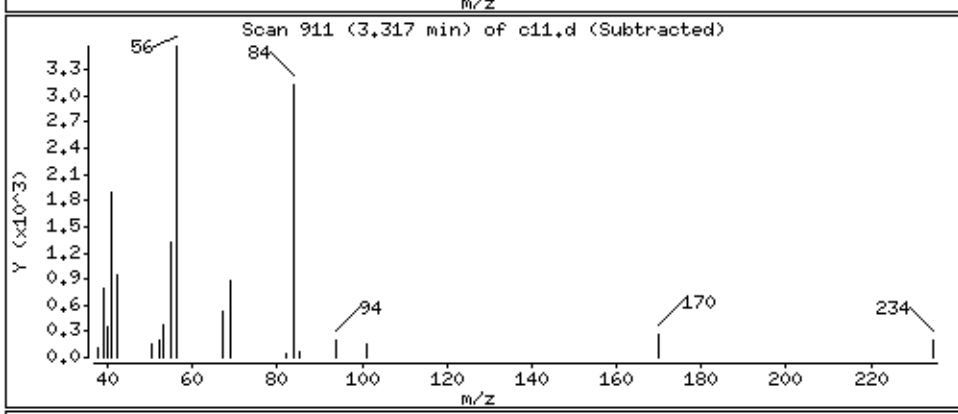
Column phase: DB-624

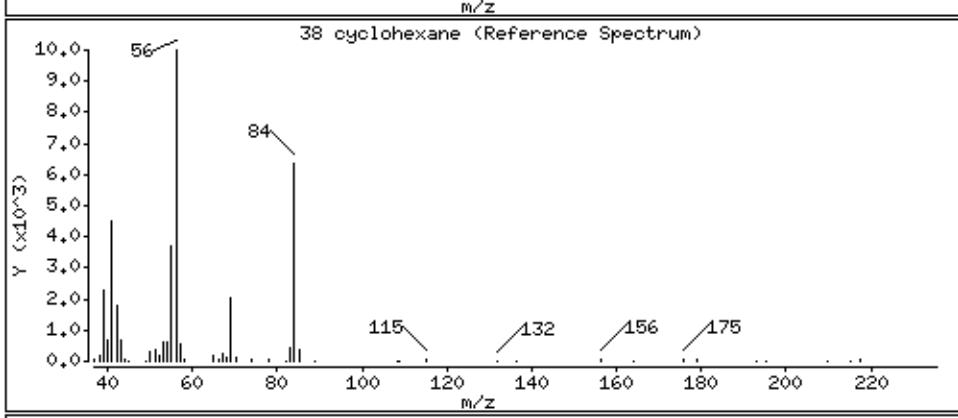
Column diameter: 0.18

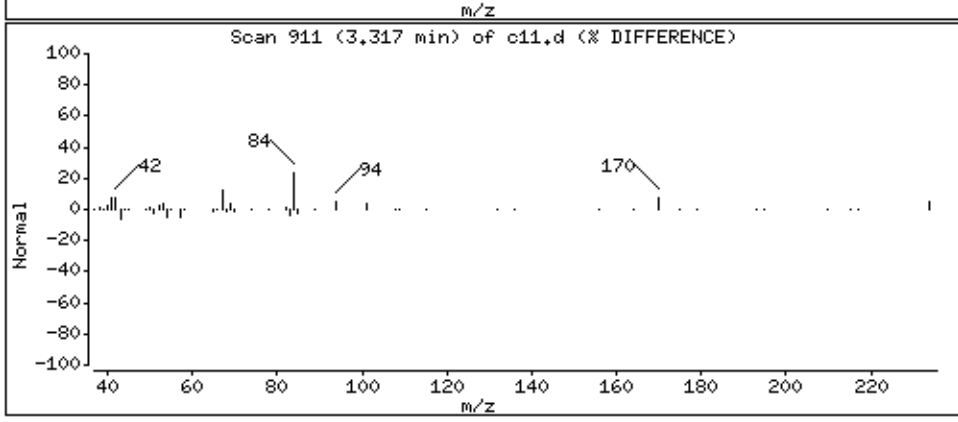
38 cyclohexane

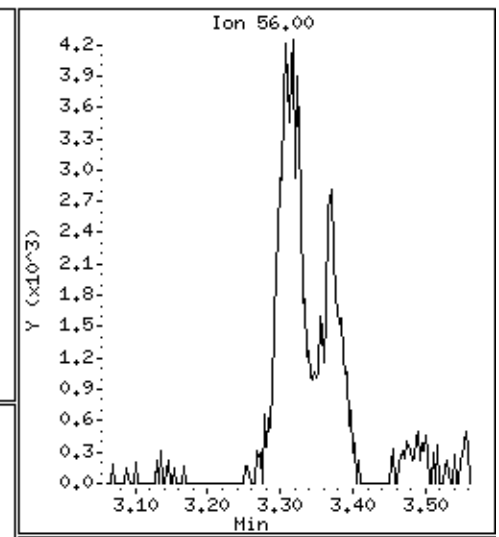
Concentration: 2.48 ppb

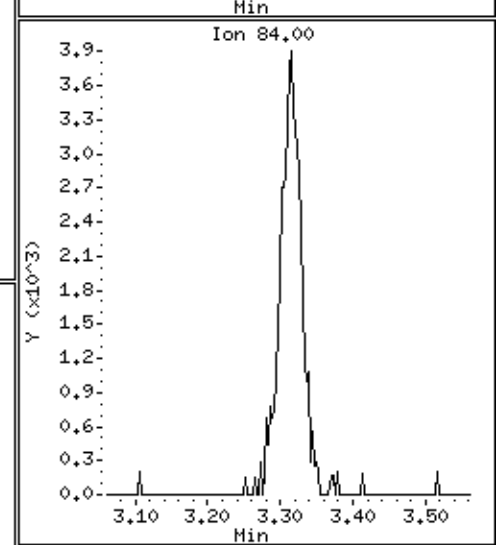


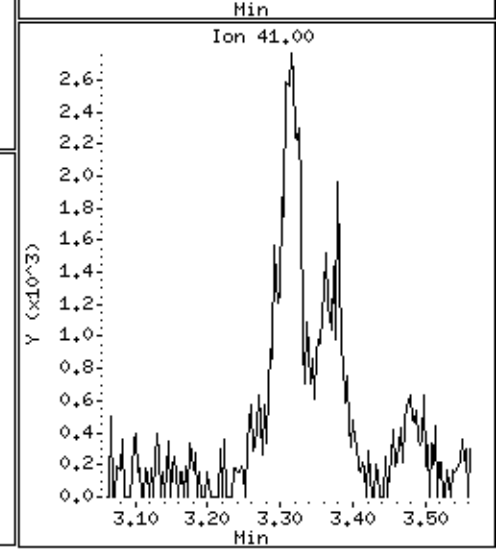












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

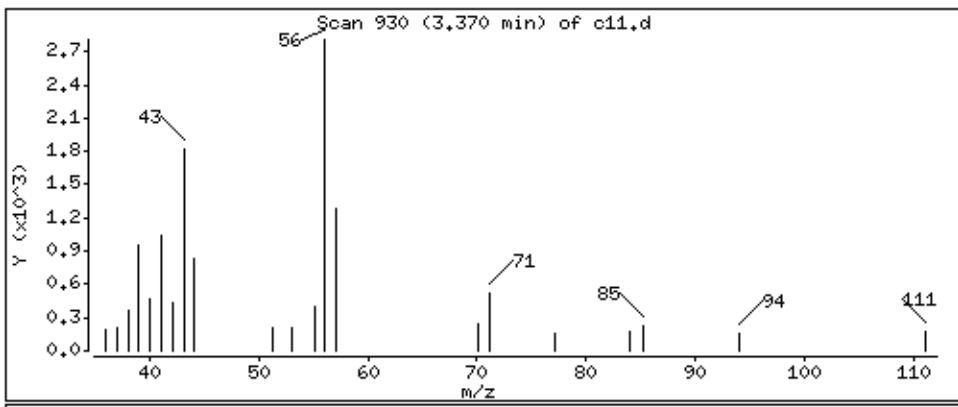
Operator: dae

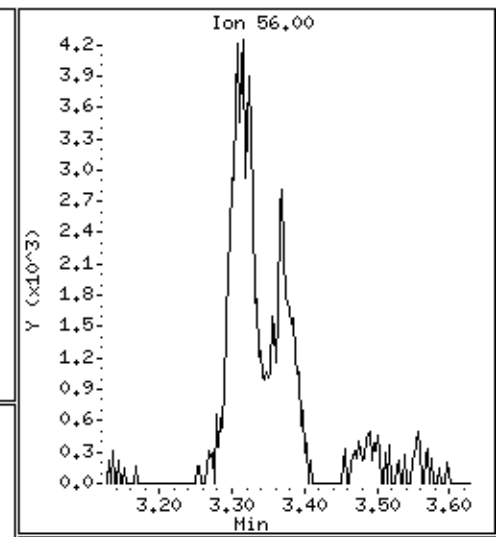
Column phase: DB-624

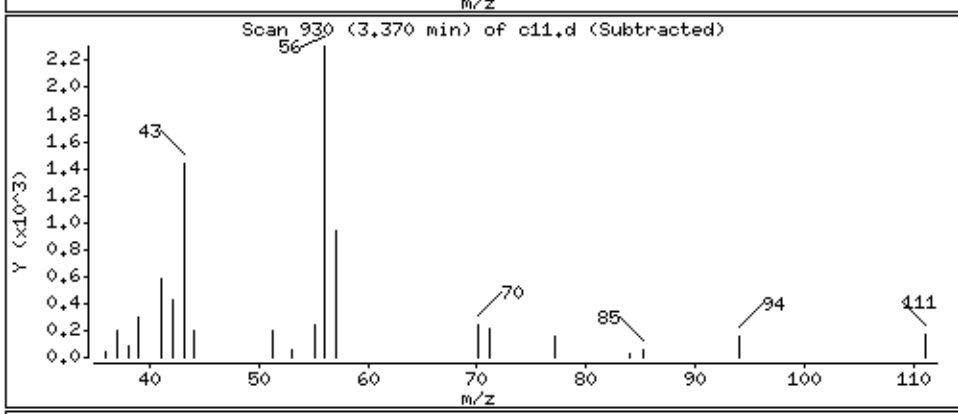
Column diameter: 0.18

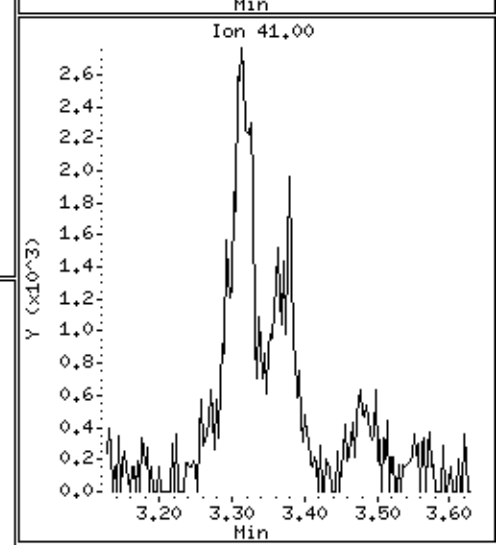
150 n-butyl chloride

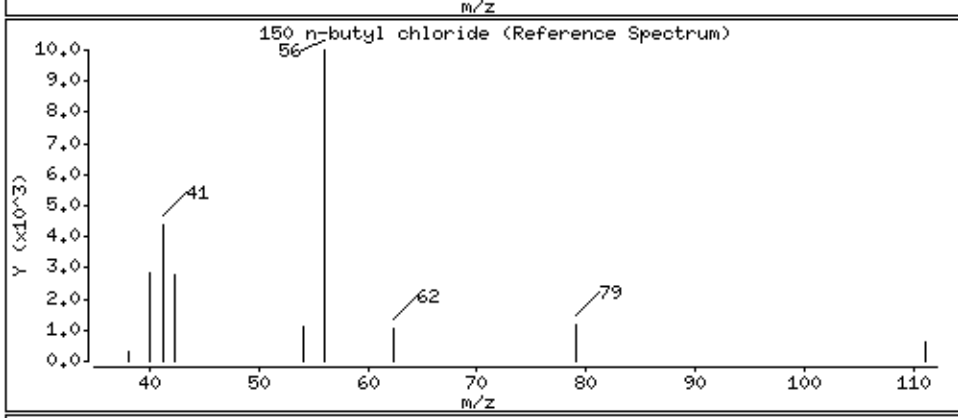
Concentration: 0.926 ppb

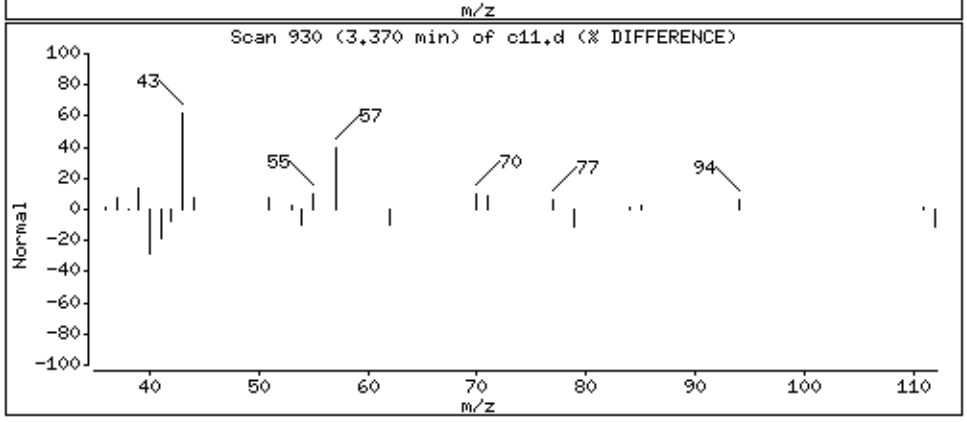












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

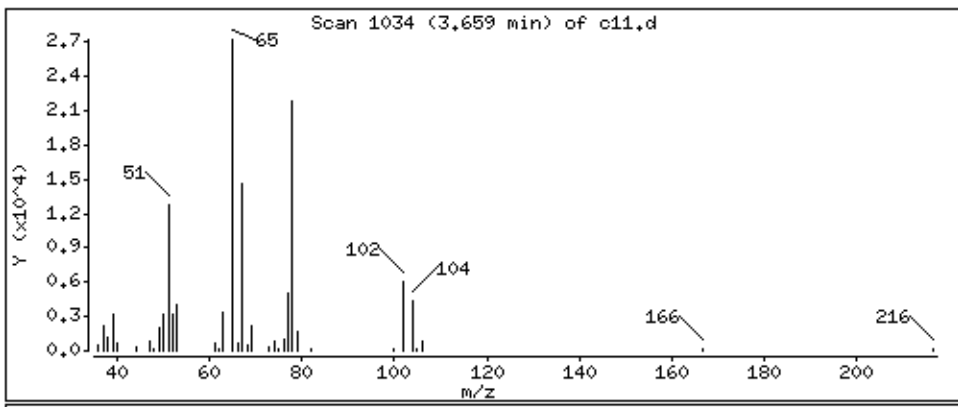
Operator: dae

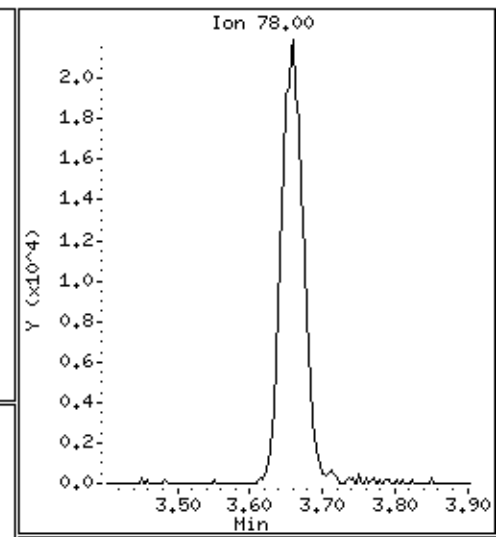
Column phase: DB-624

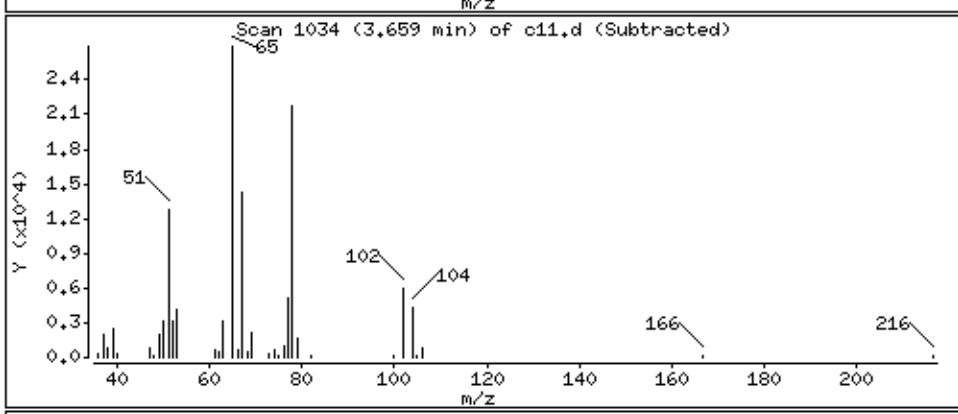
Column diameter: 0.18

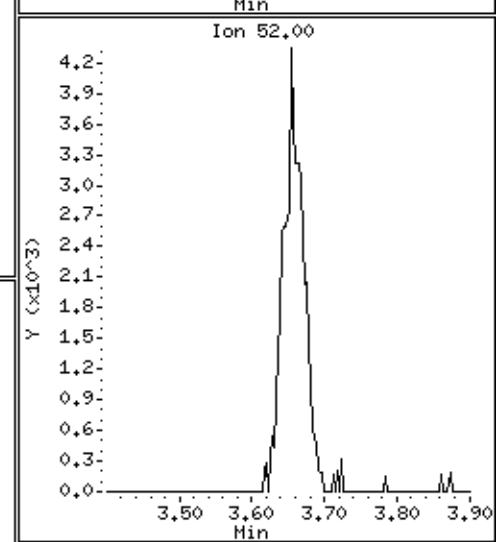
41 Benzene

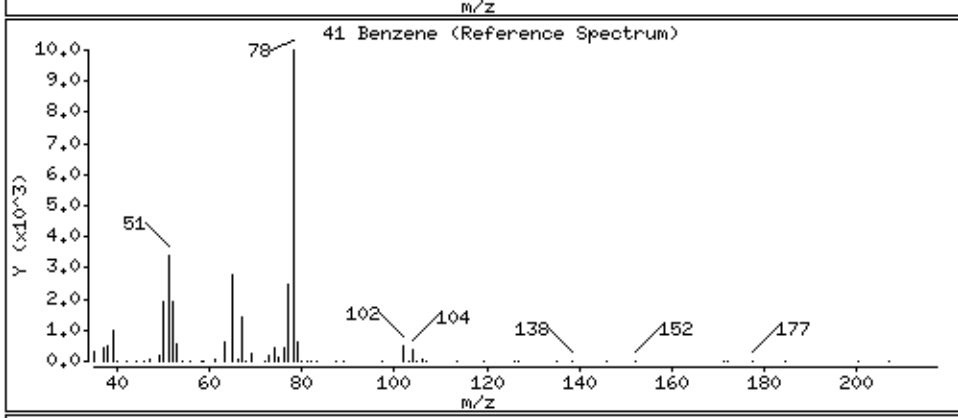
Concentration: 5.05 ppb

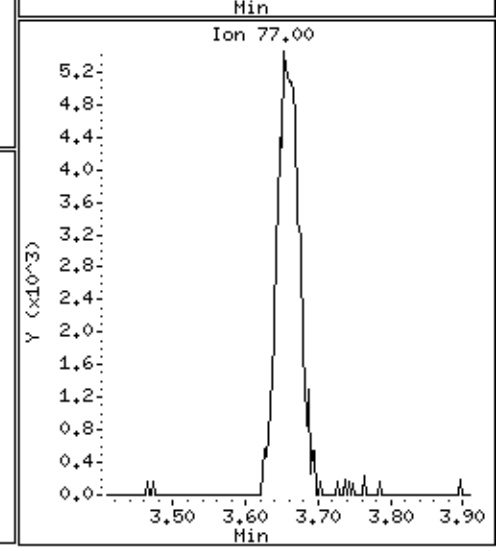


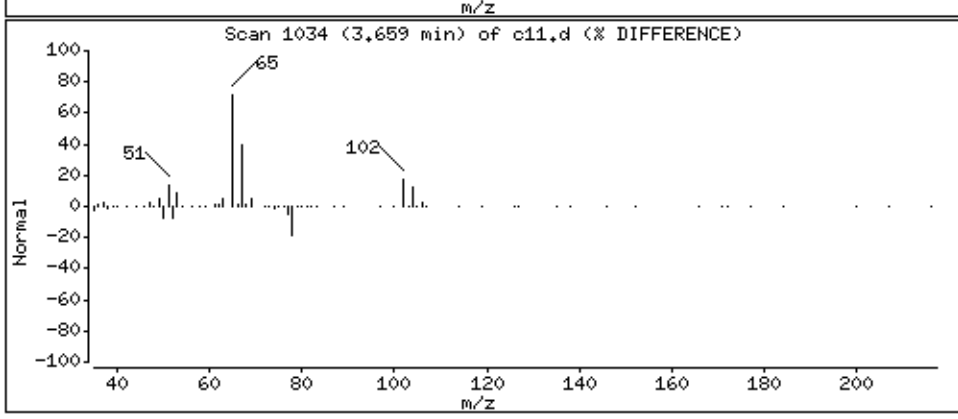












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

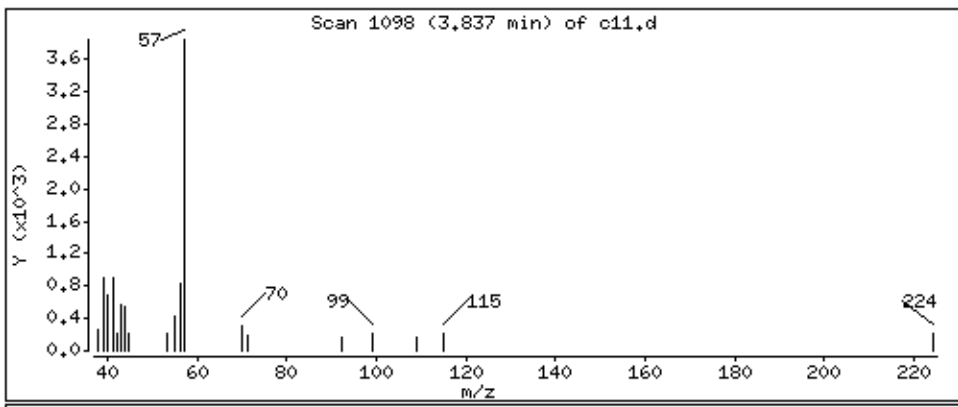
Operator: dae

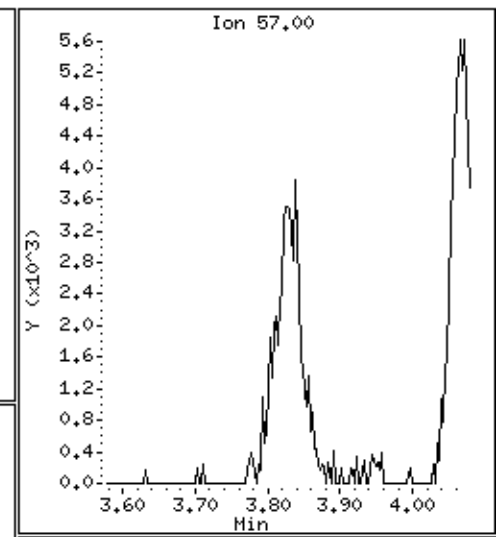
Column phase: DB-624

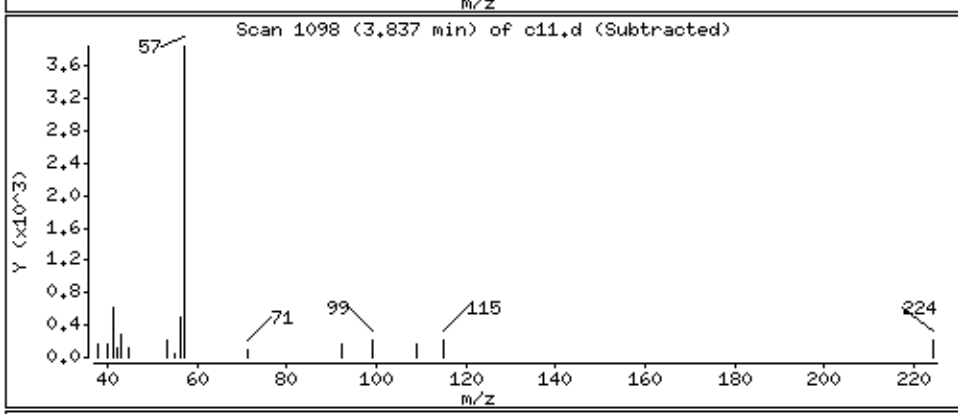
Column diameter: 0.18

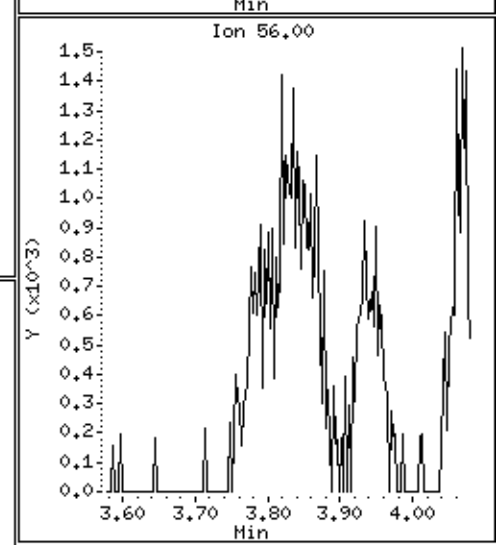
43 2,2,4-Trimethylpentane

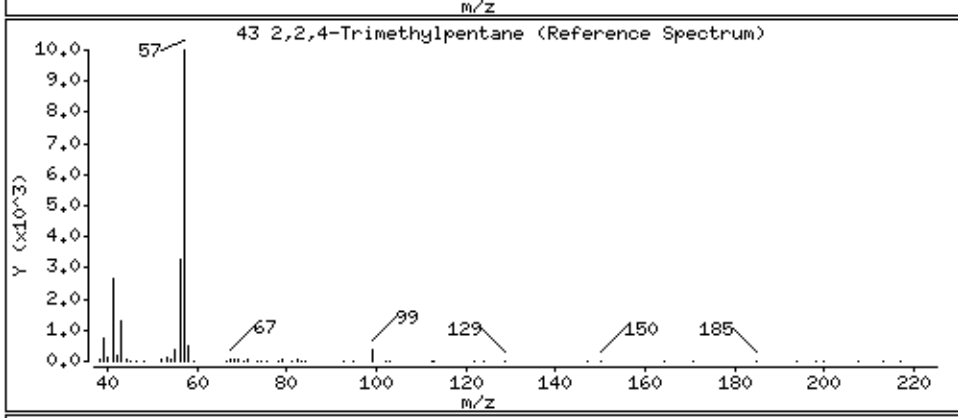
Concentration: 1.59 ppb

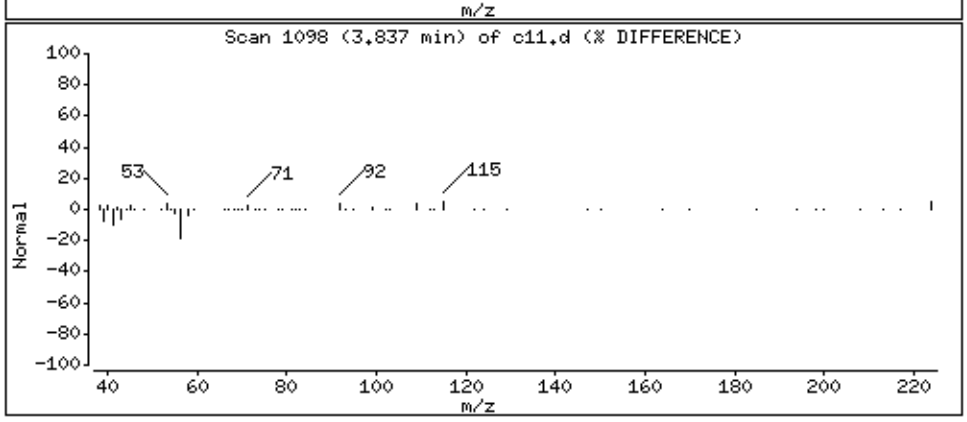












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

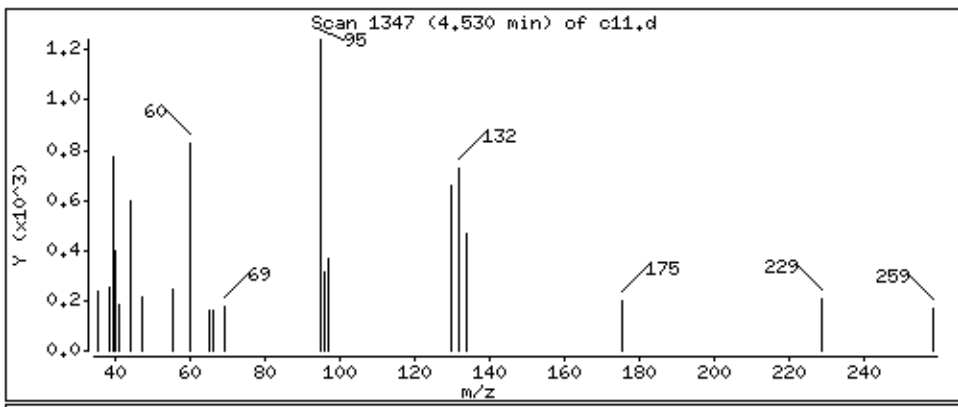
Operator: dae

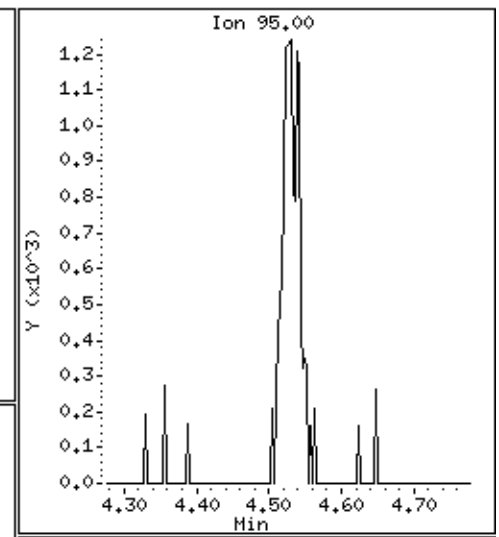
Column phase: DB-624

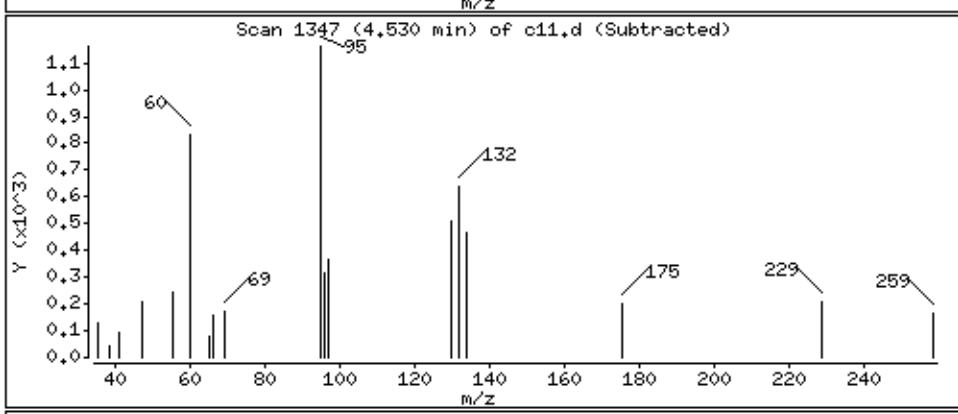
Column diameter: 0.18

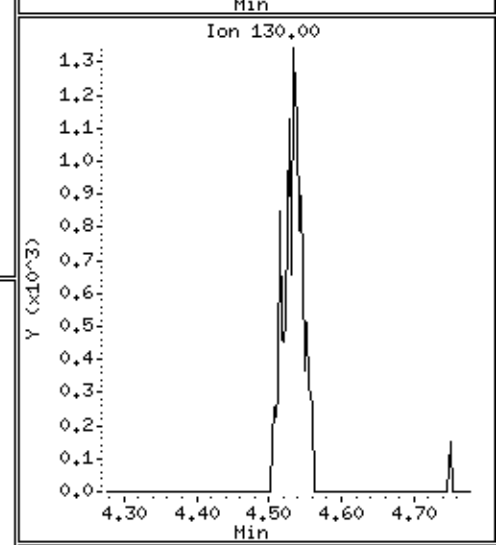
47 Trichloroethene

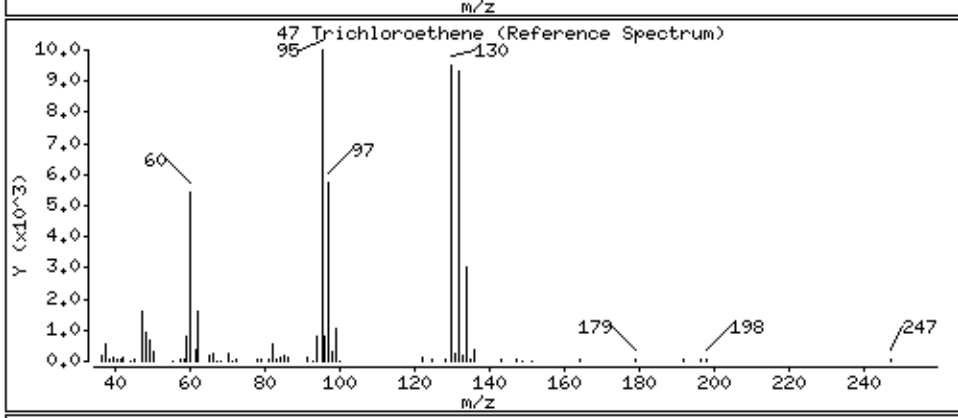
Concentration: 0.890 ppb

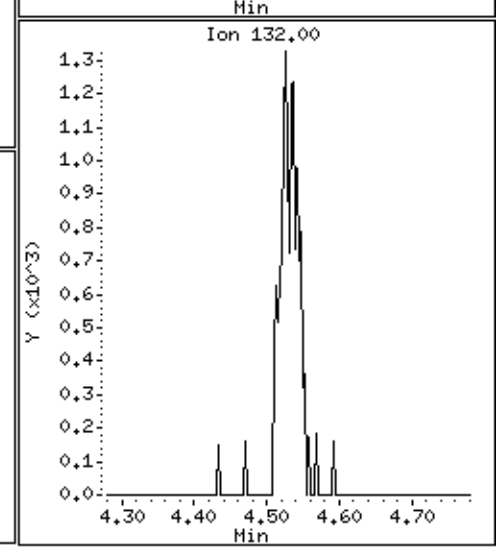


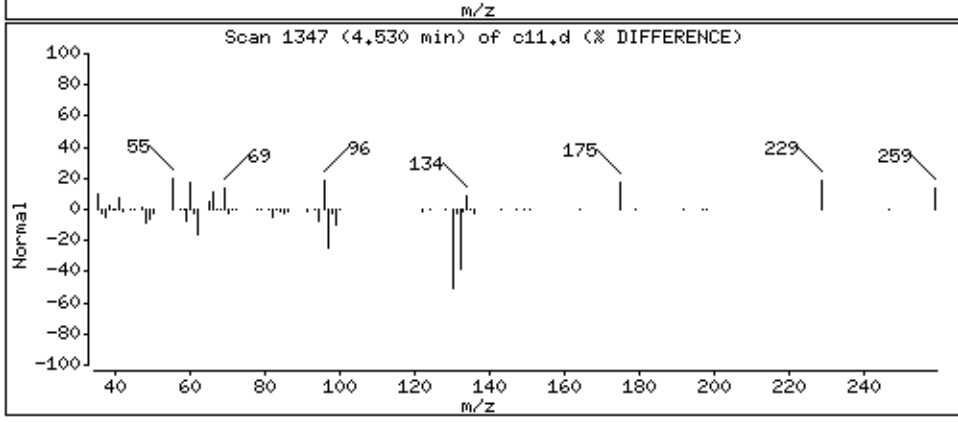












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

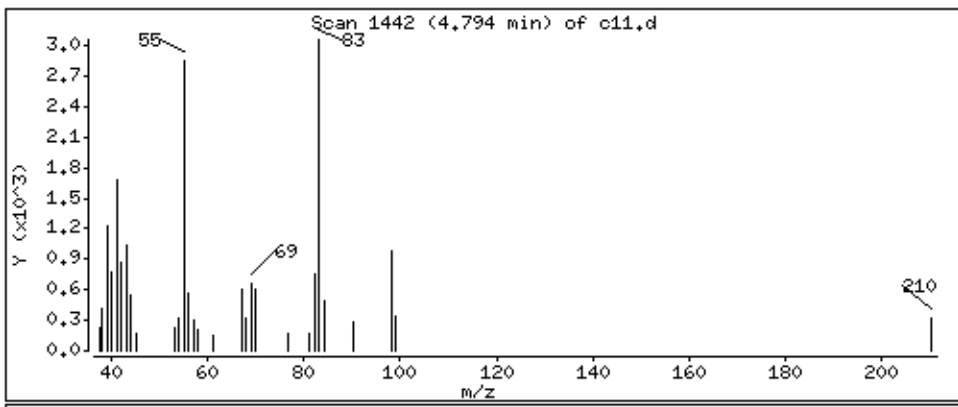
Operator: dae

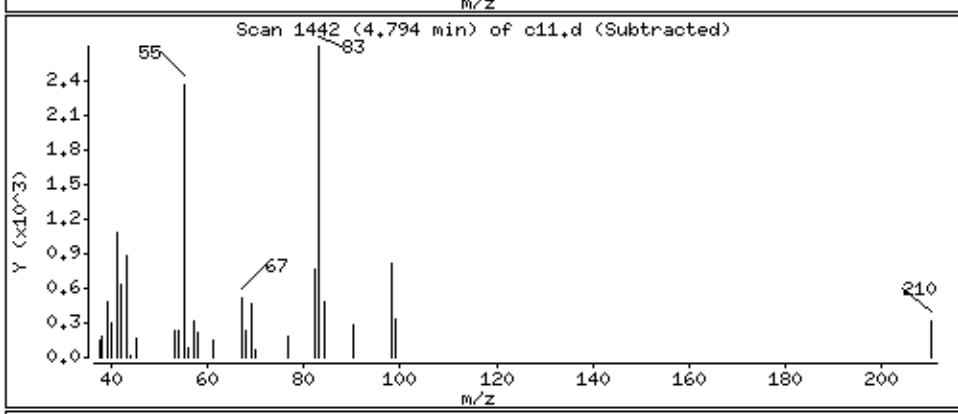
Column phase: DB-624

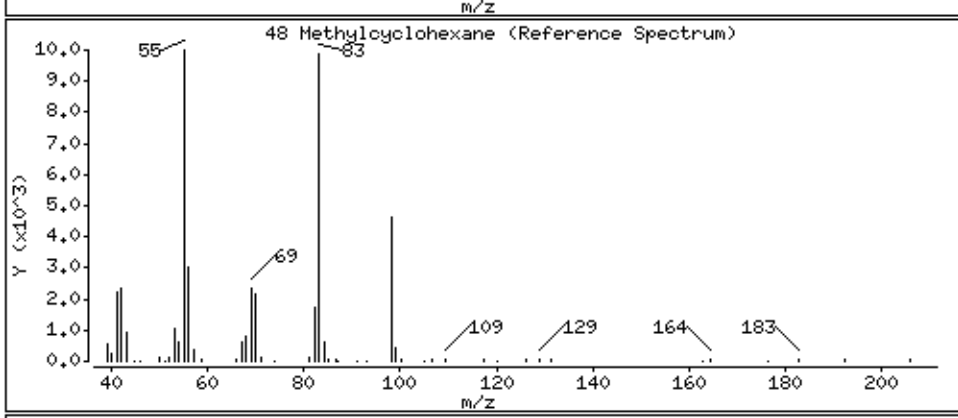
Column diameter: 0.18

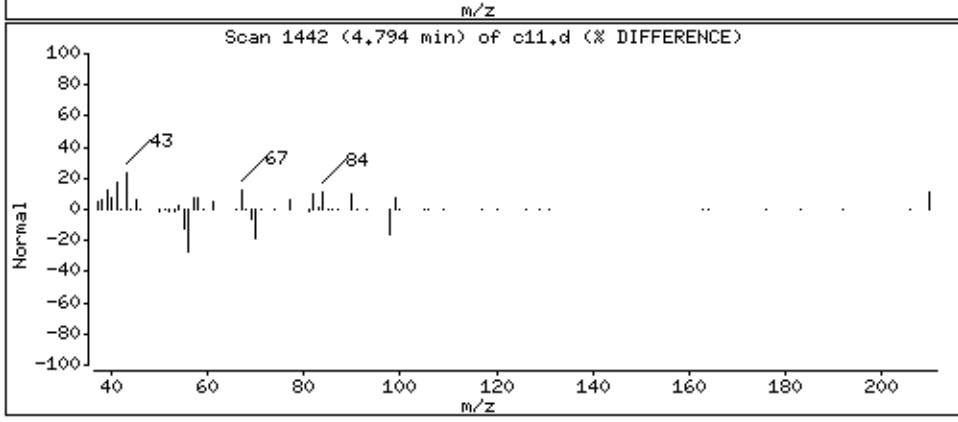
48 Methylcyclohexane

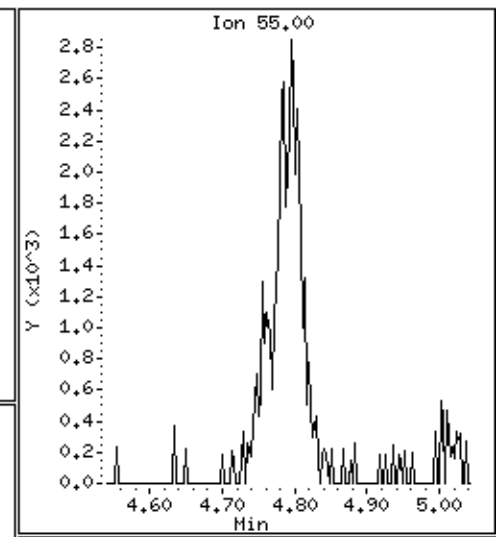
Concentration: 2.24 ppb

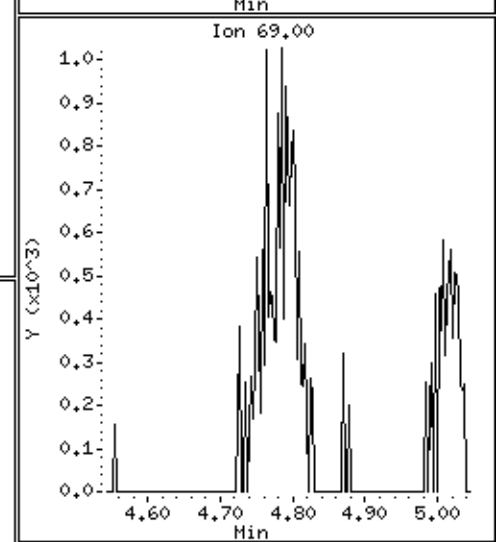


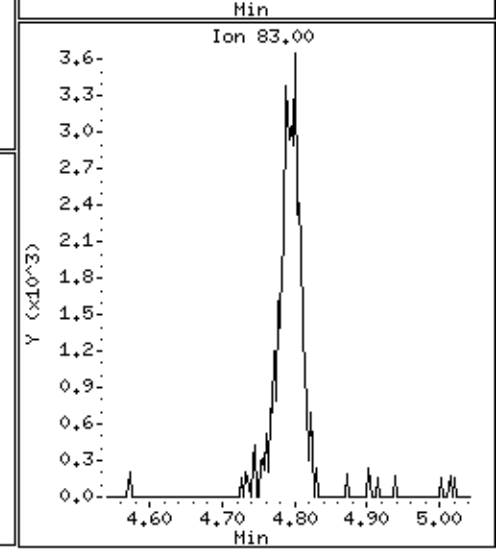












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

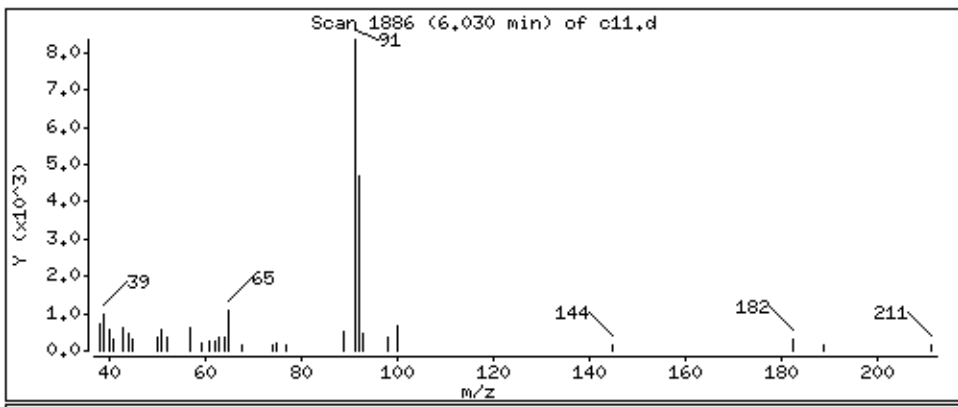
Operator: dae

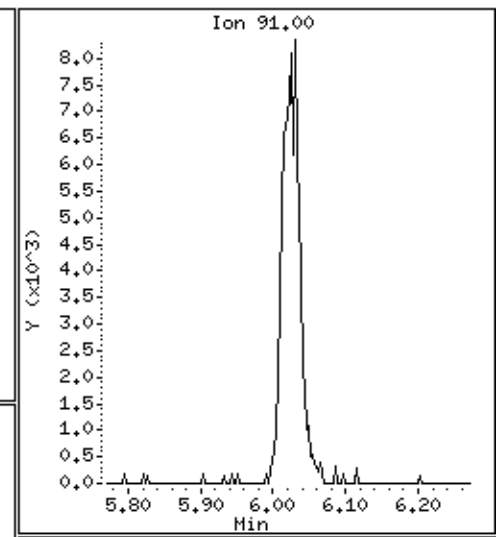
Column phase: DB-624

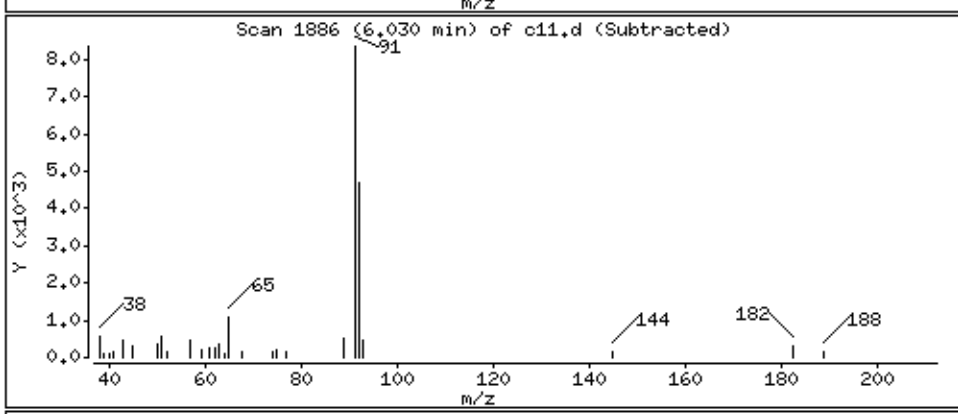
Column diameter: 0.18

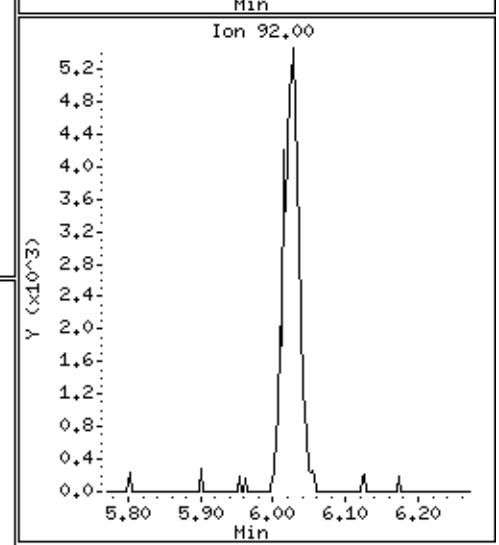
58 Toluene

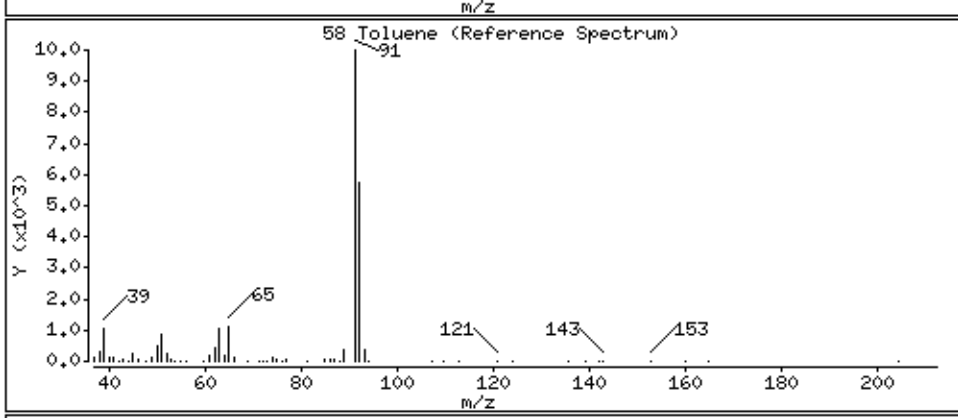
Concentration: 1.48 ppb

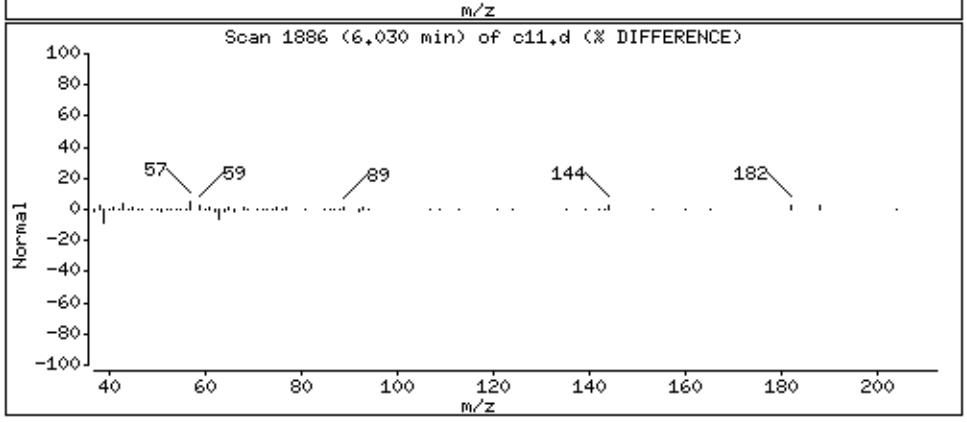












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

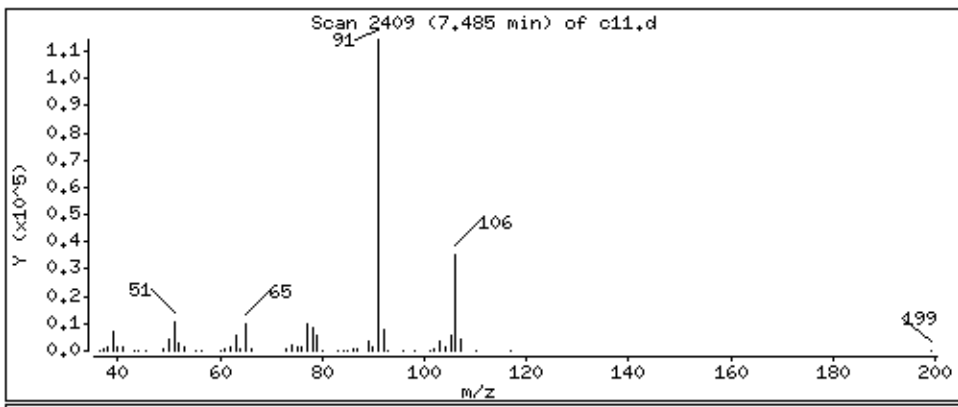
Operator: dae

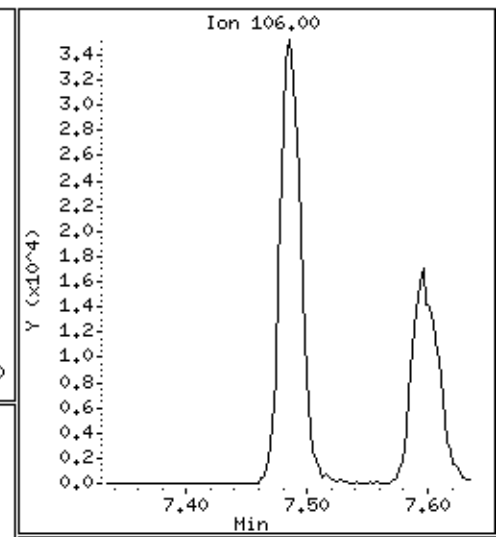
Column phase: DB-624

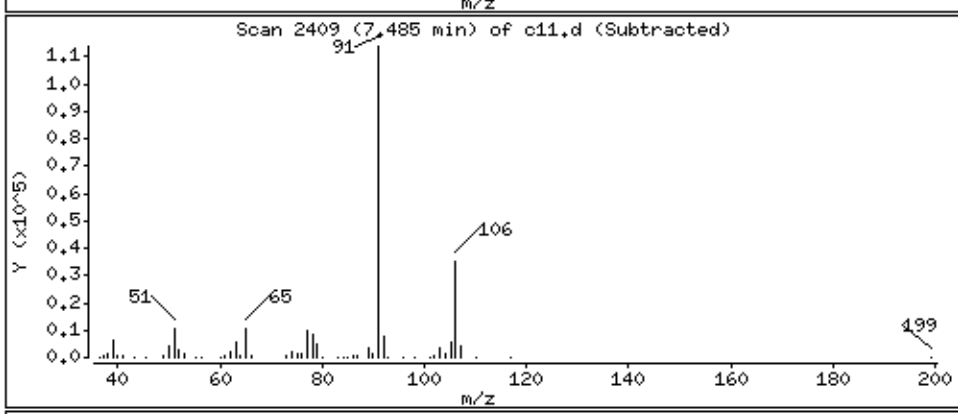
Column diameter: 0.18

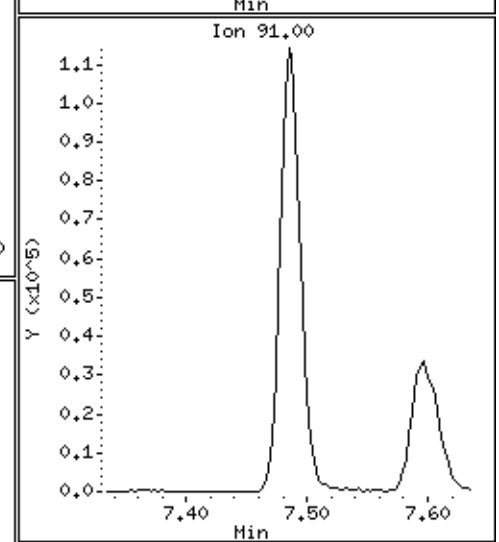
70 Ethylbenzene

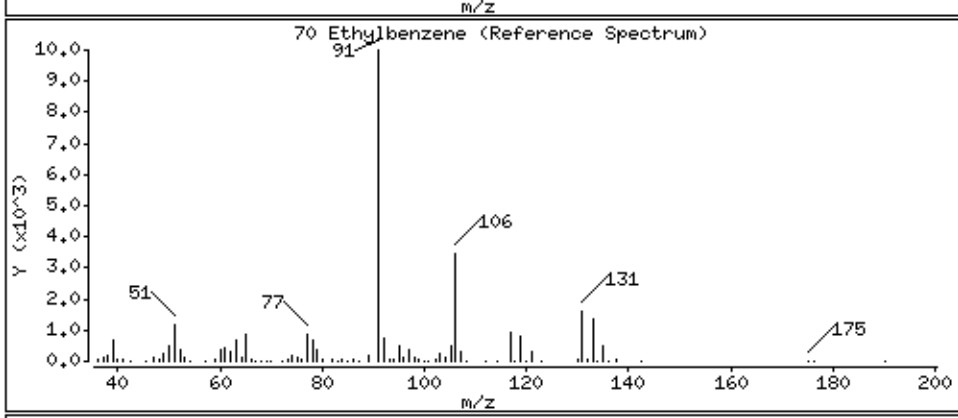
Concentration: 13.6 ppb

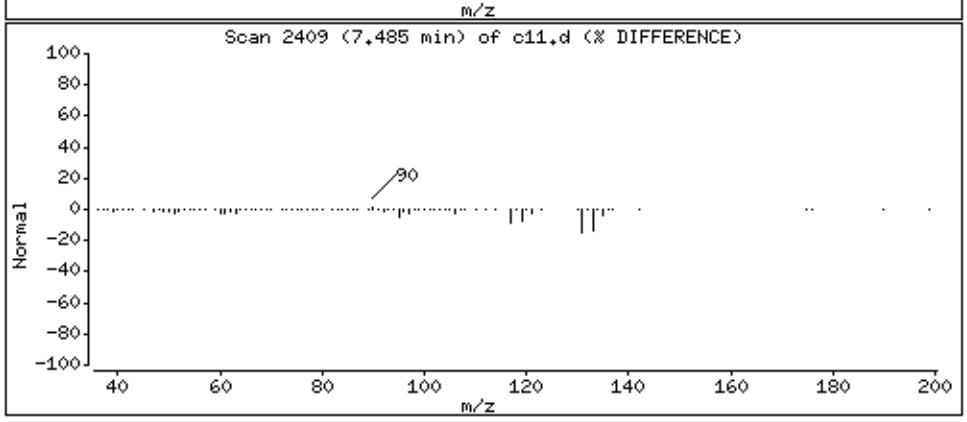












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

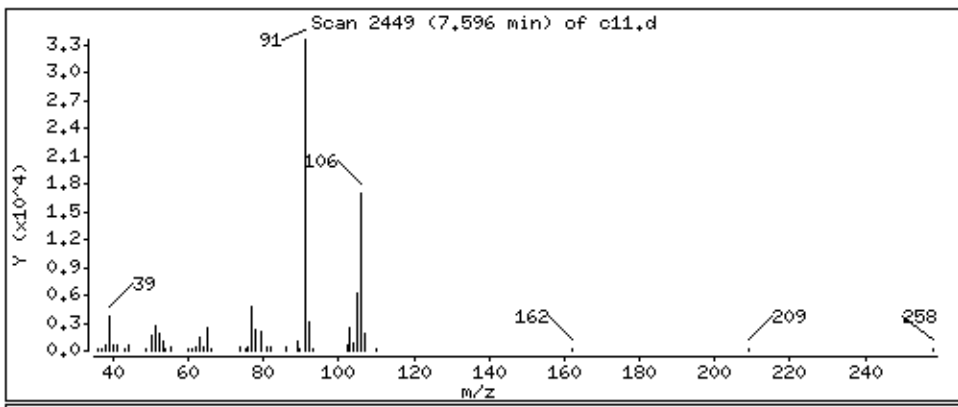
Operator: dae

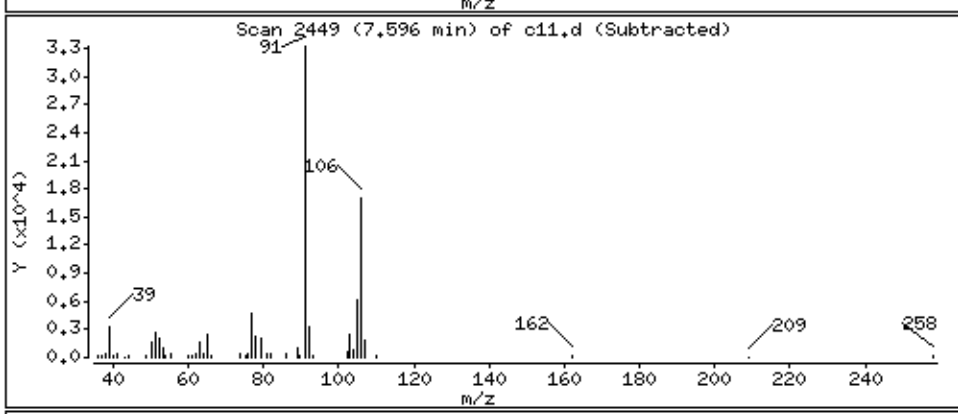
Column phase: DB-624

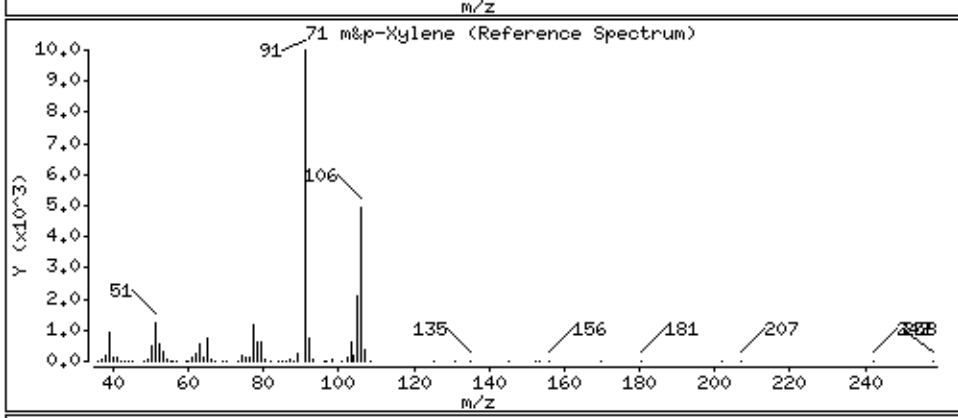
Column diameter: 0.18

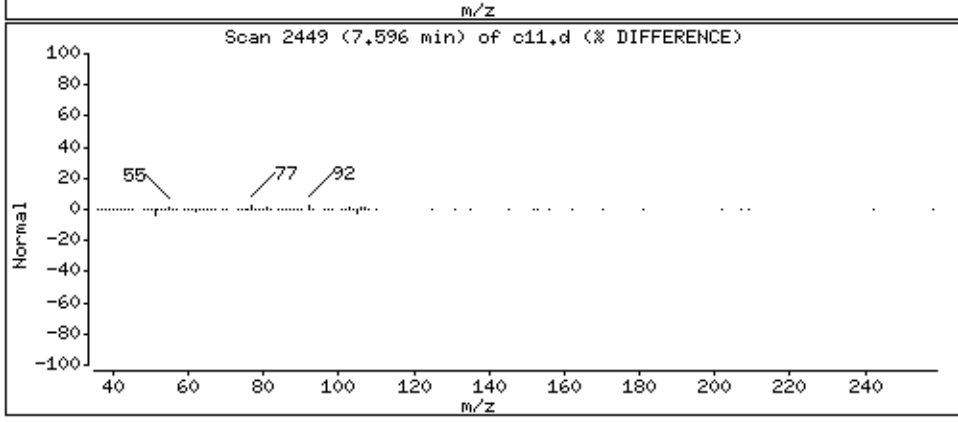
71 m&p-Xylene

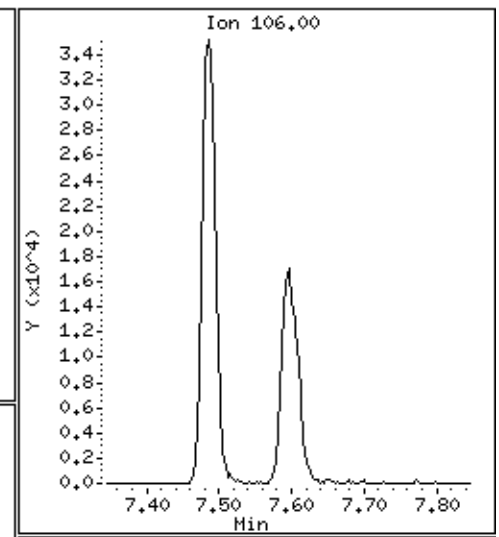
Concentration: 6.72 ppb

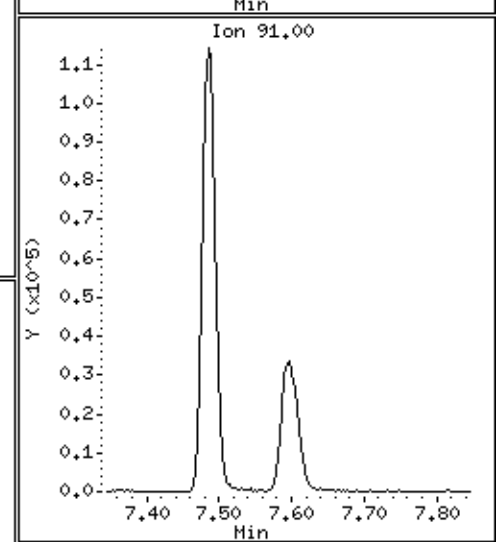


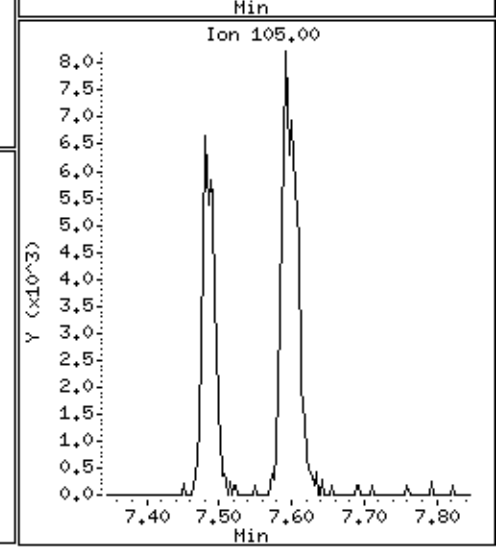












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

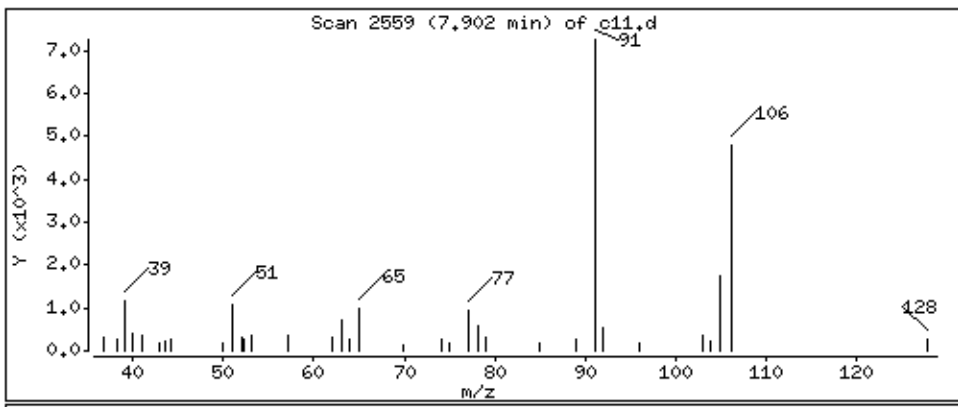
Operator: dae

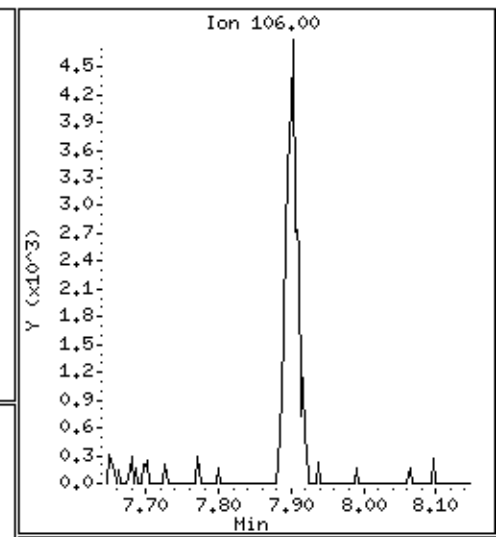
Column phase: DB-624

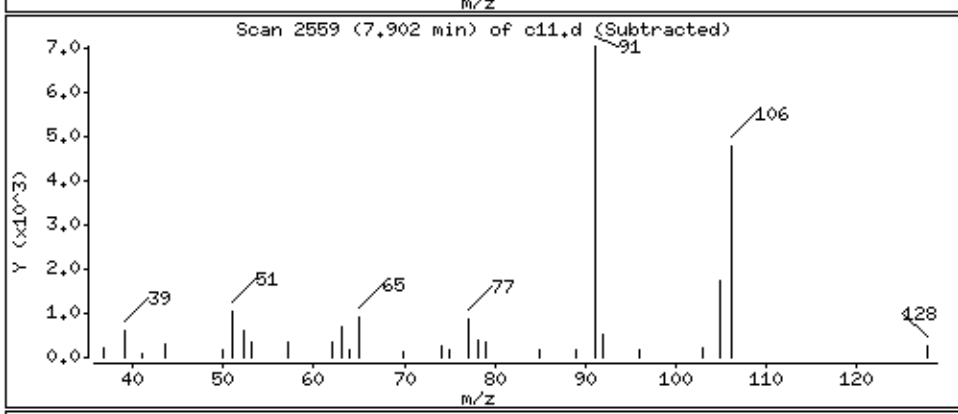
Column diameter: 0.18

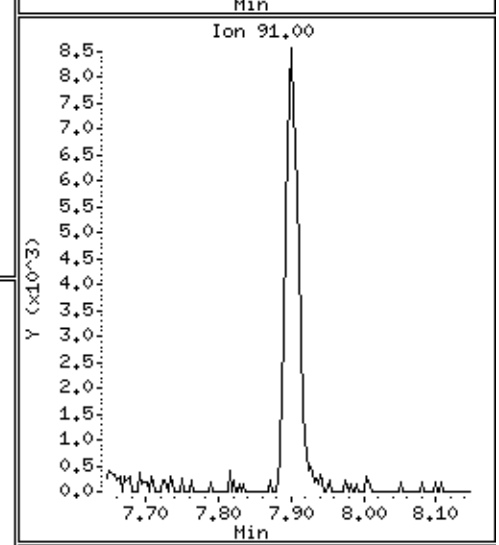
72 o-Xylene

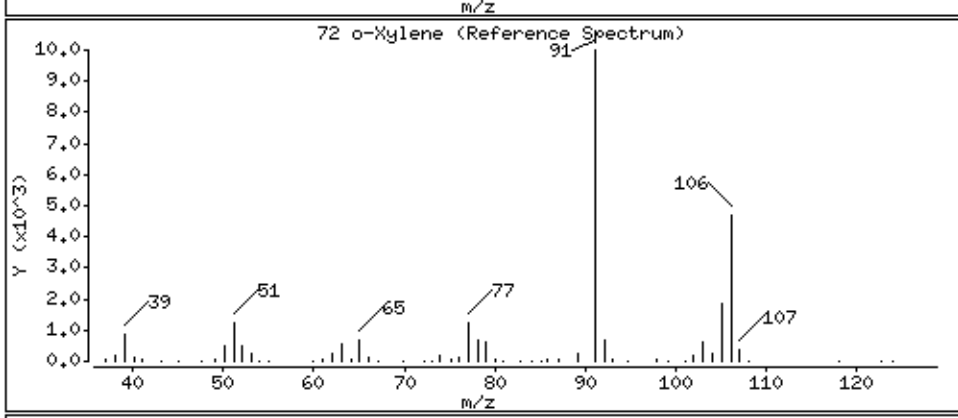
Concentration: 1.42 ppb

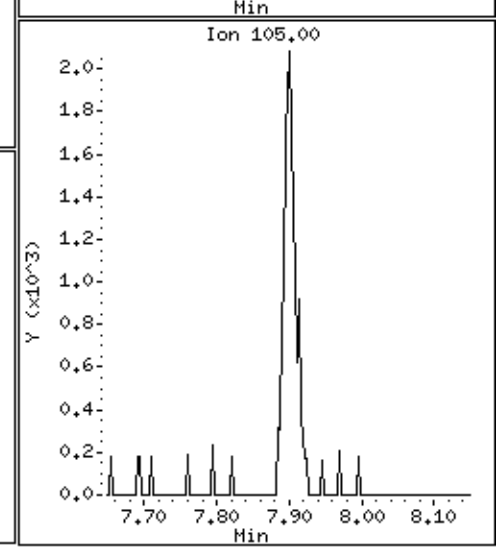


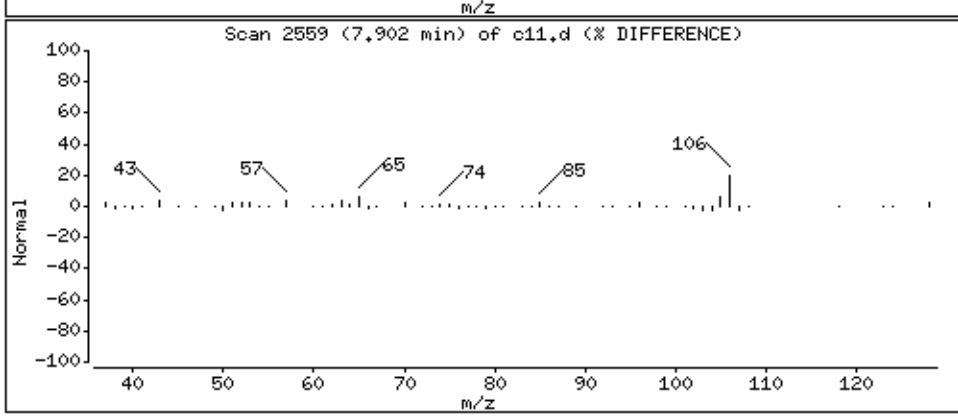












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

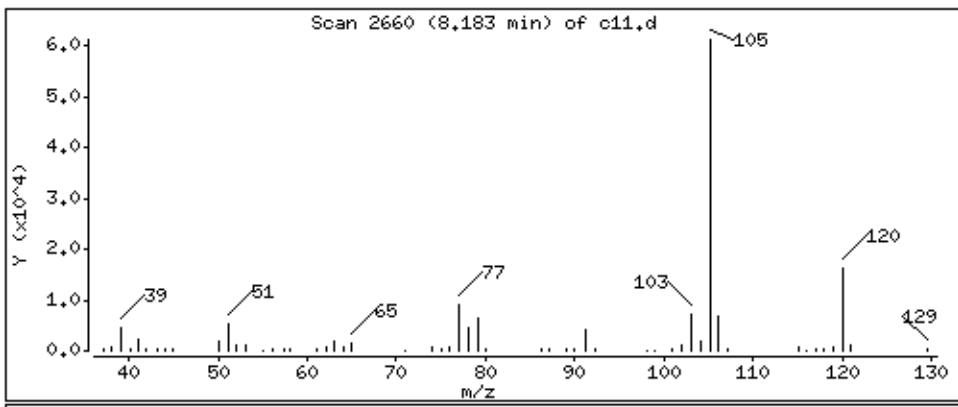
Operator: dae

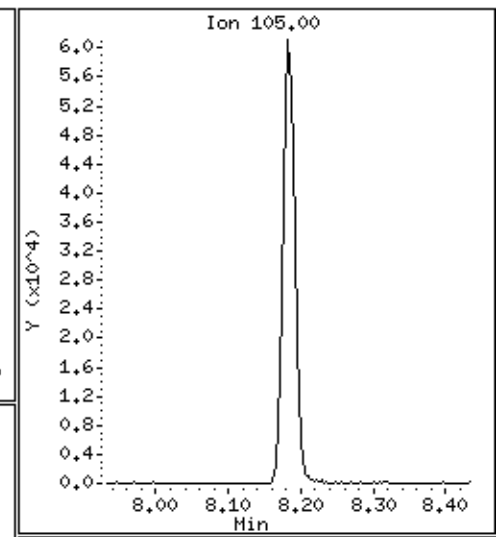
Column phase: DB-624

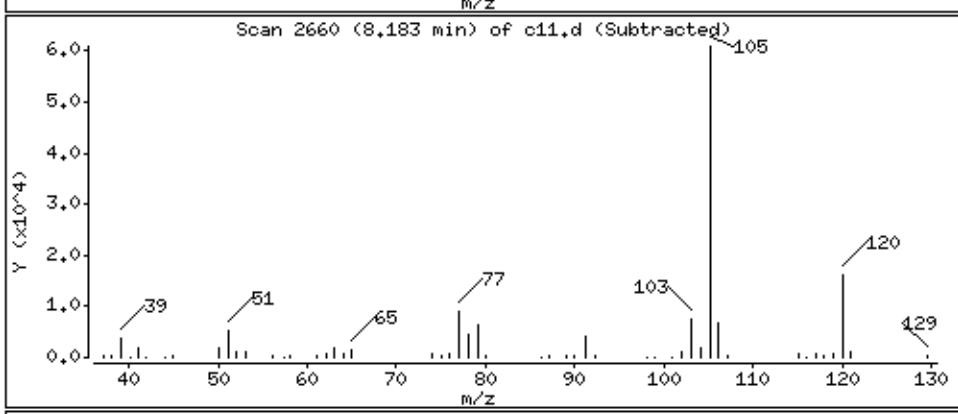
Column diameter: 0.18

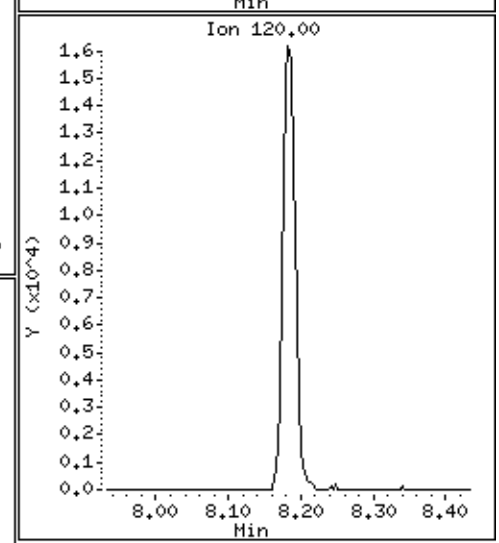
75 Isopropylbenzene

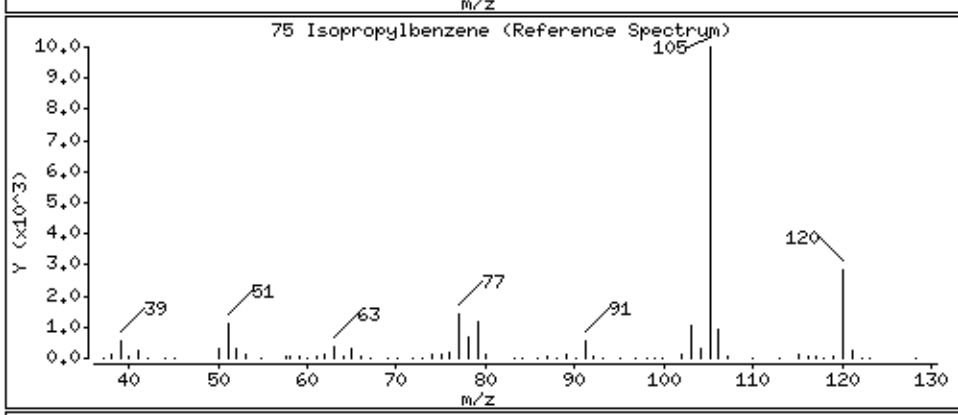
Concentration: 7.36 ppb

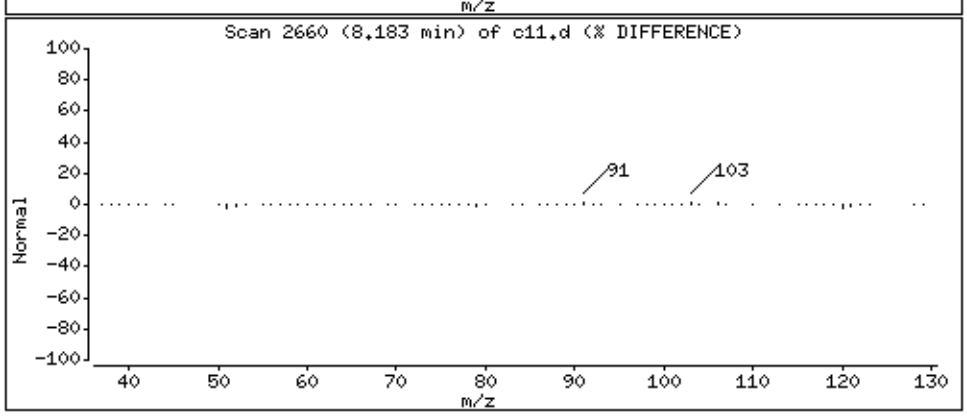












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

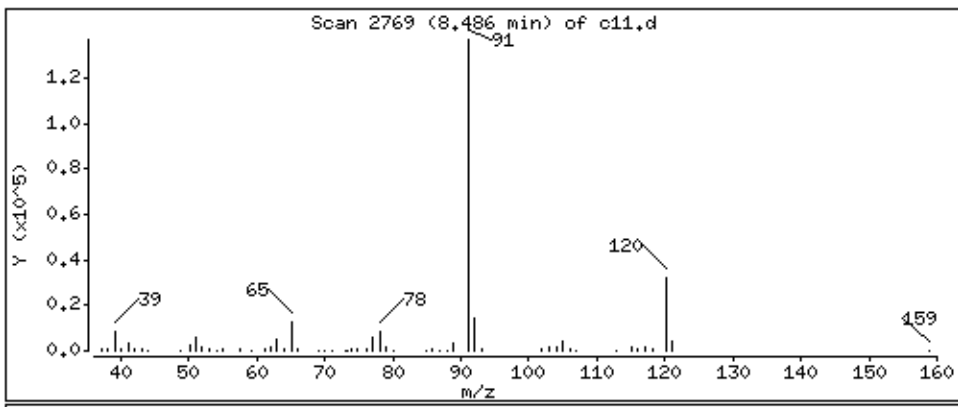
Operator: dae

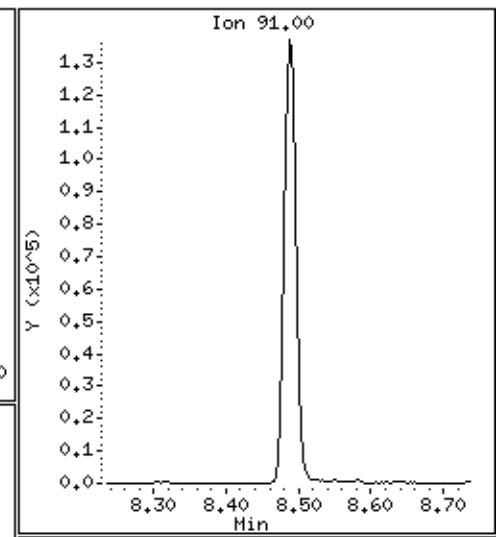
Column phase: DB-624

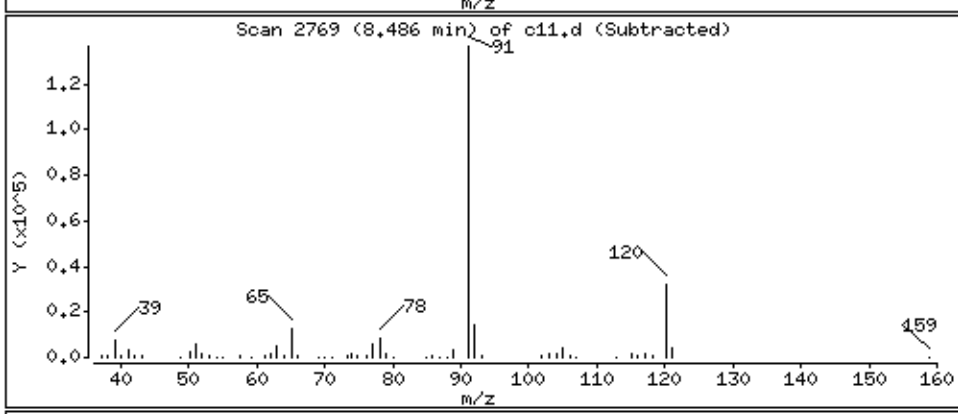
Column diameter: 0.18

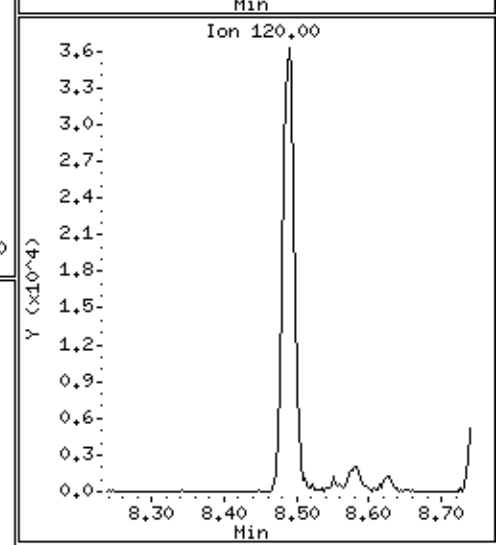
82 n-Propylbenzene

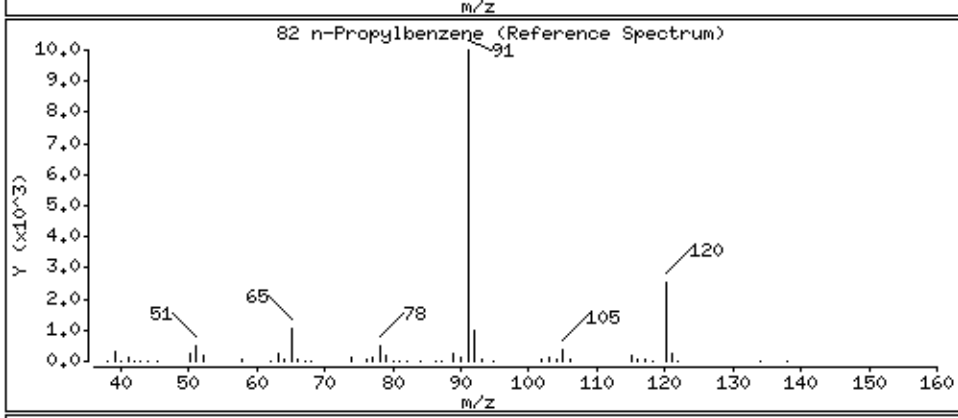
Concentration: 16.4 ppb

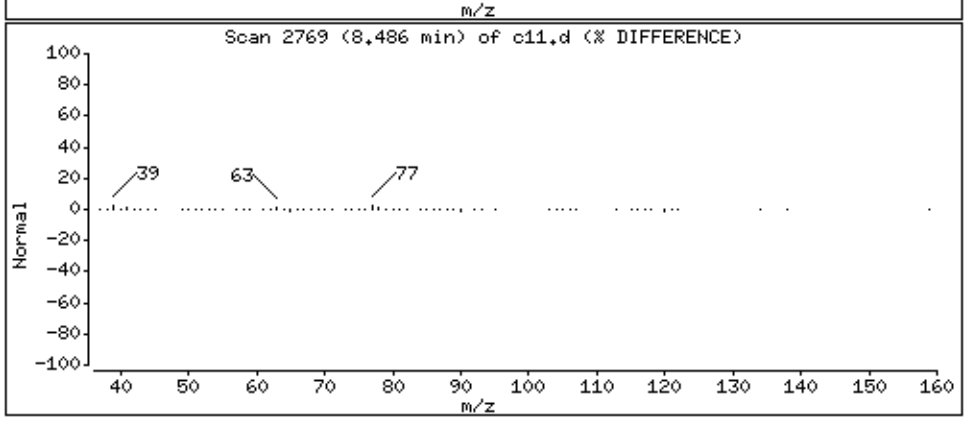












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

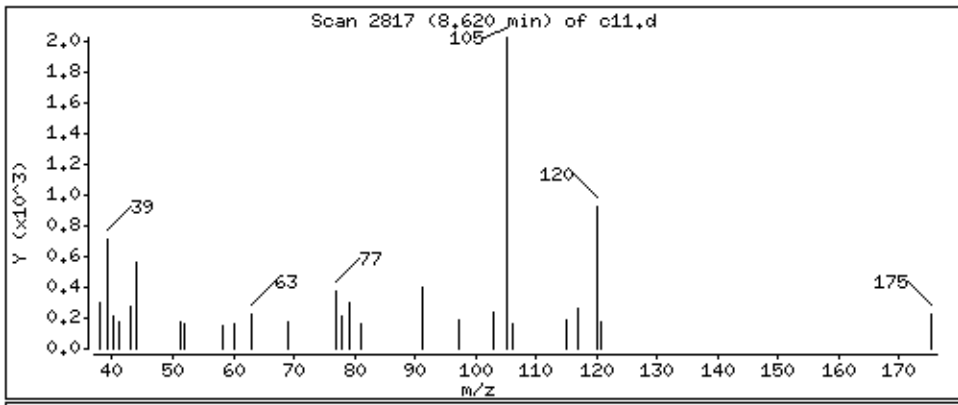
Operator: dae

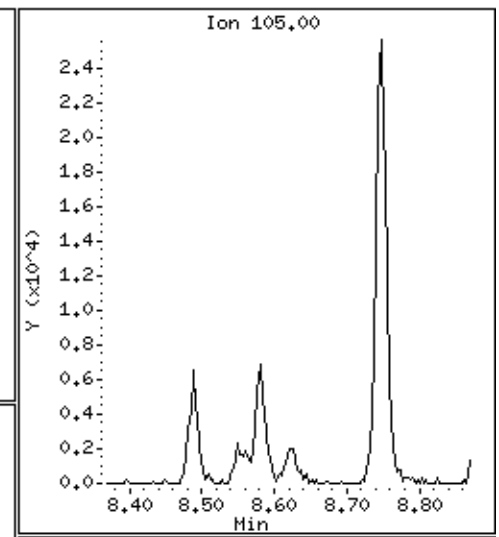
Column phase: DB-624

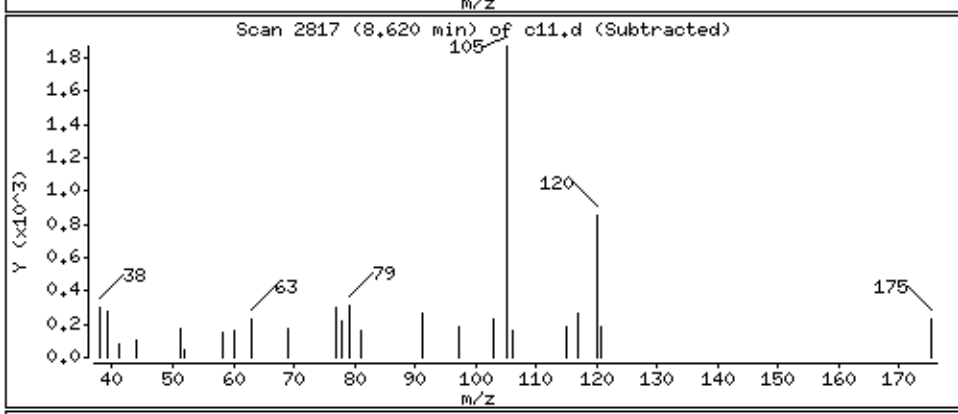
Column diameter: 0.18

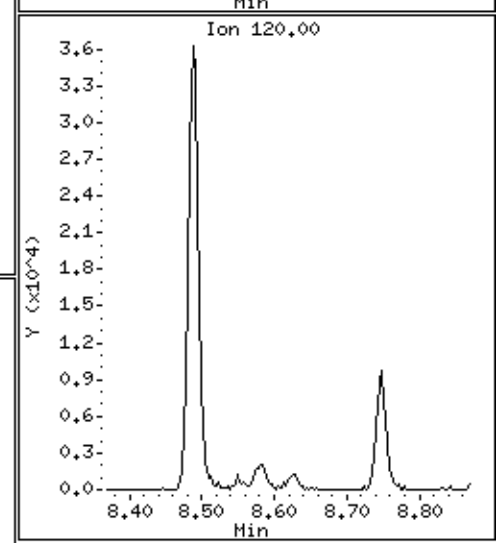
84 1,3,5-Trimethylbenzene

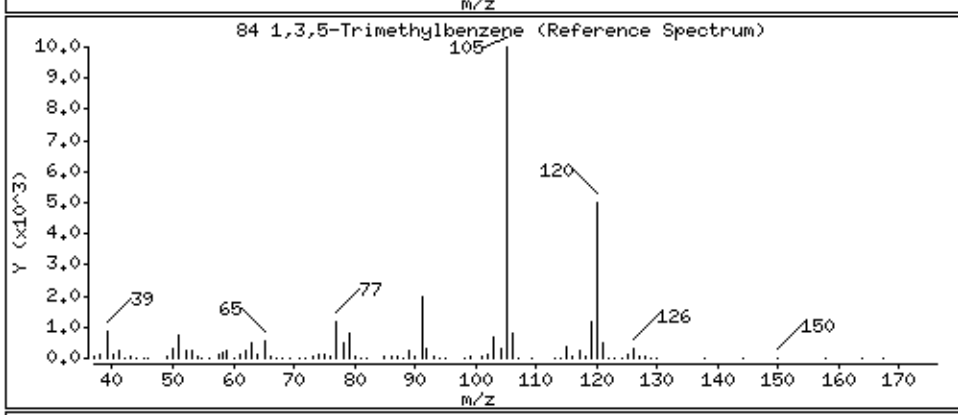
Concentration: 0.368 ppb

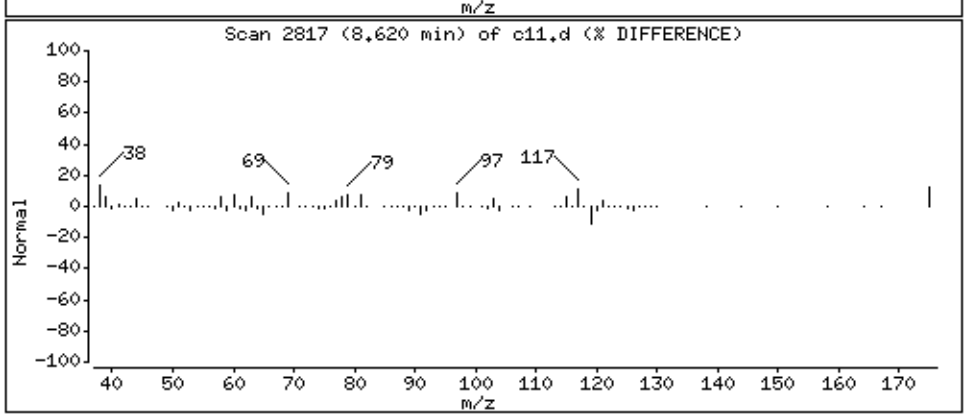












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c11.d

Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

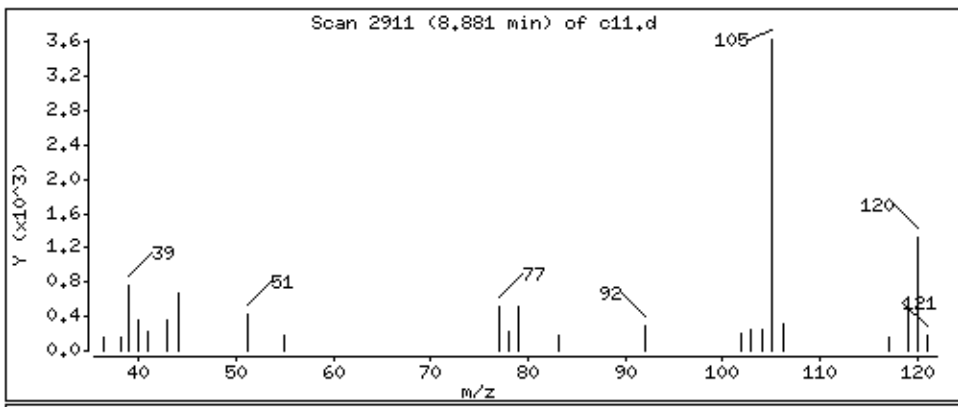
Operator: dae

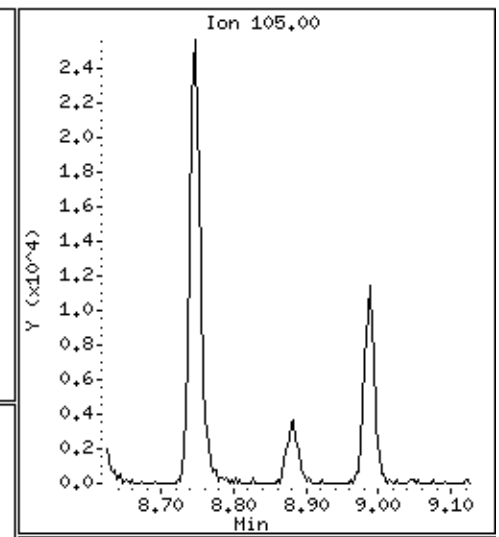
Column phase: DB-624

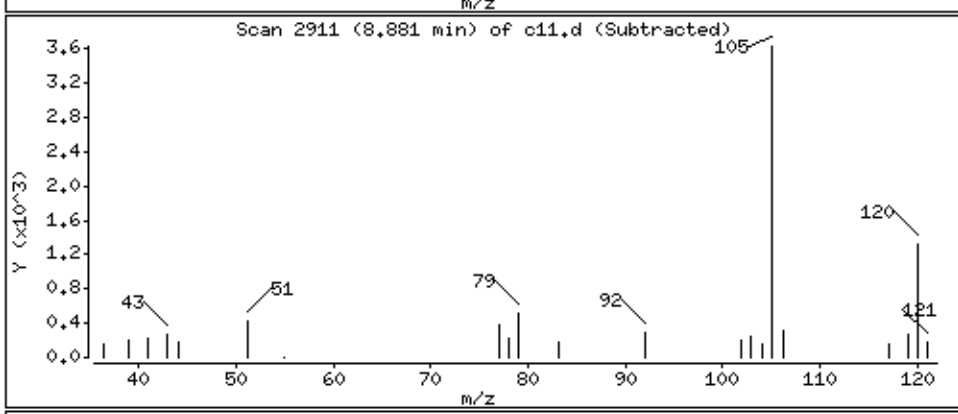
Column diameter: 0.18

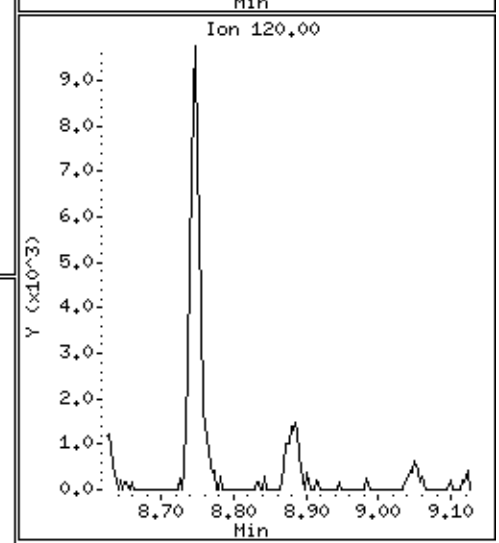
87 1,2,4-Trimethylbenzene

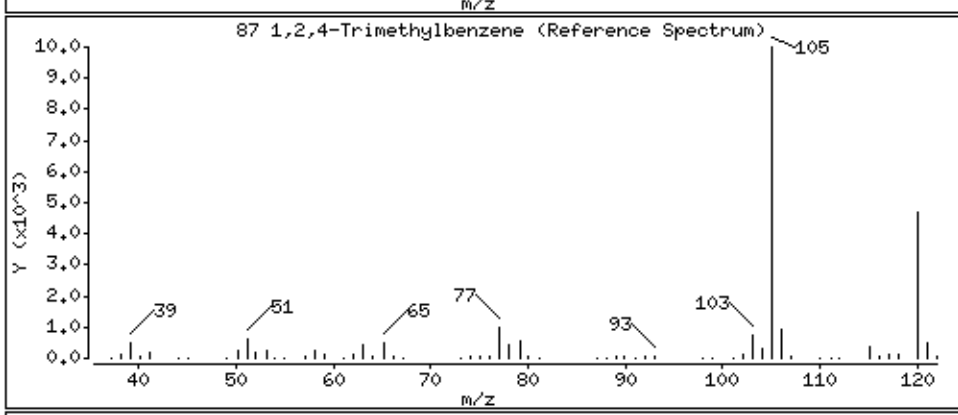
Concentration: 0.572 ppb

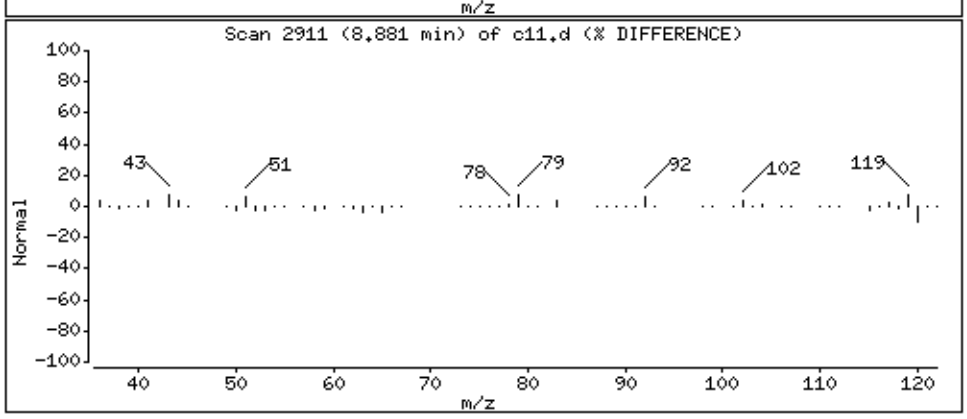












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

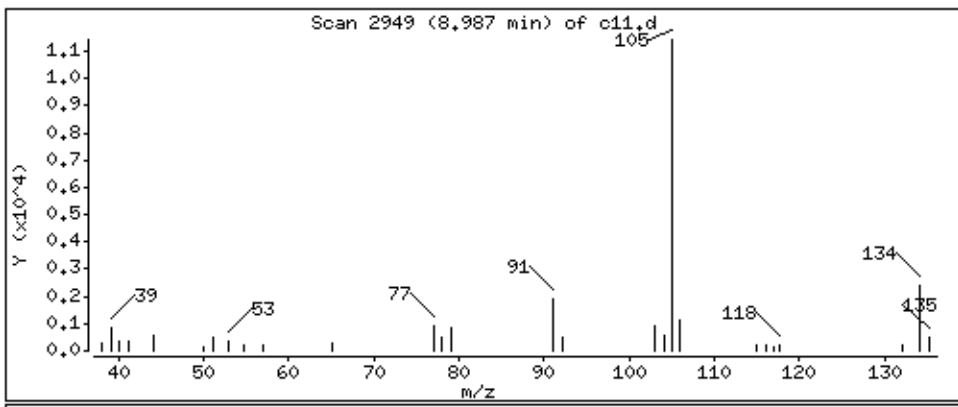
Operator: dae

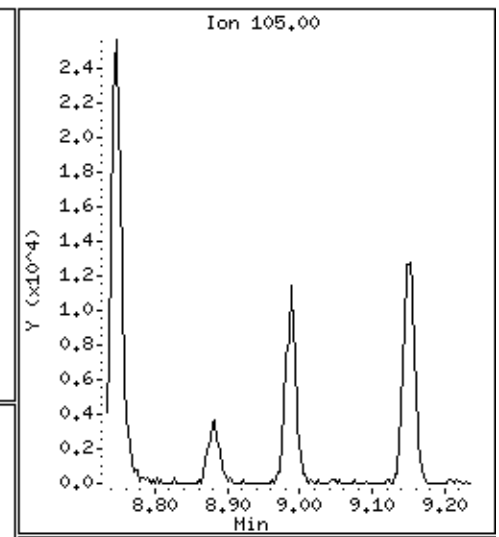
Column phase: DB-624

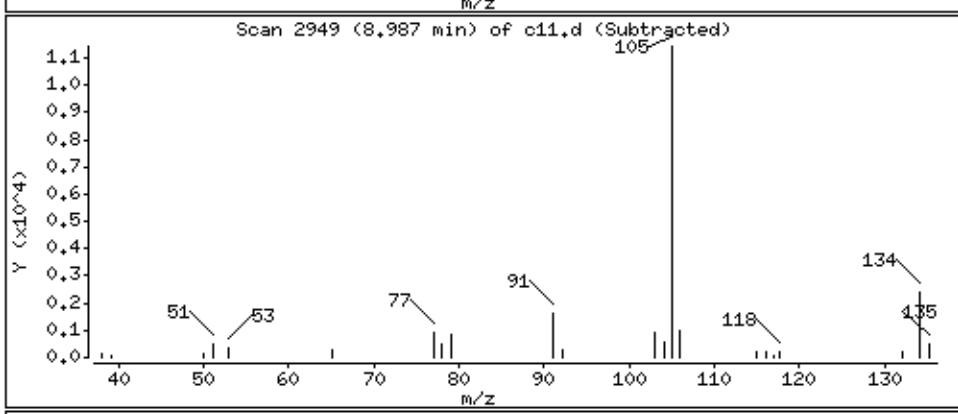
Column diameter: 0.18

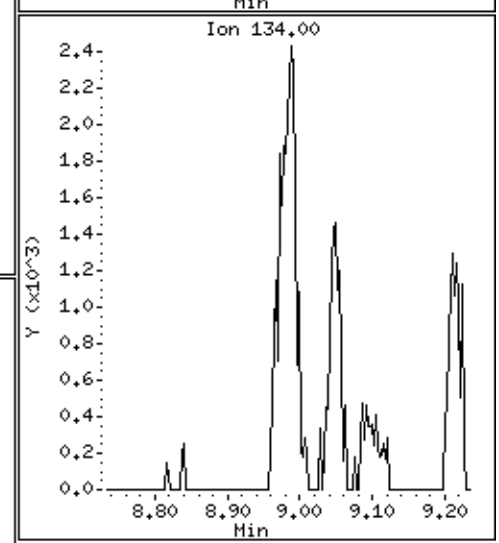
88 sec-Butylbenzene

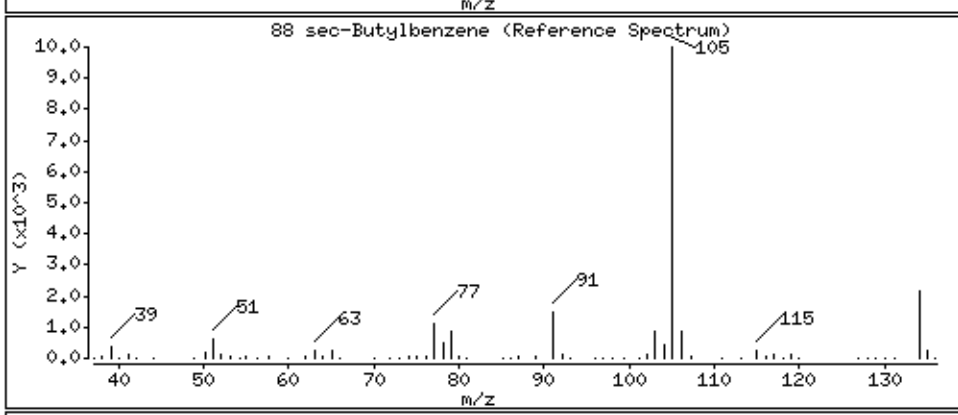
Concentration: 1.28 ppb

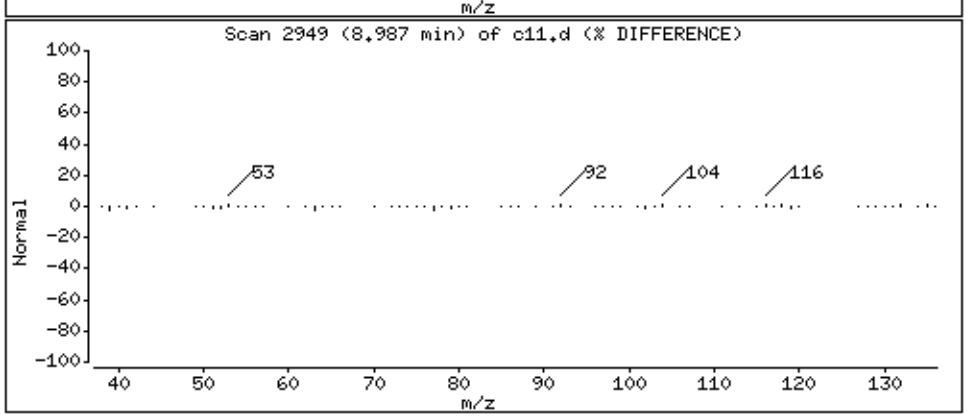












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

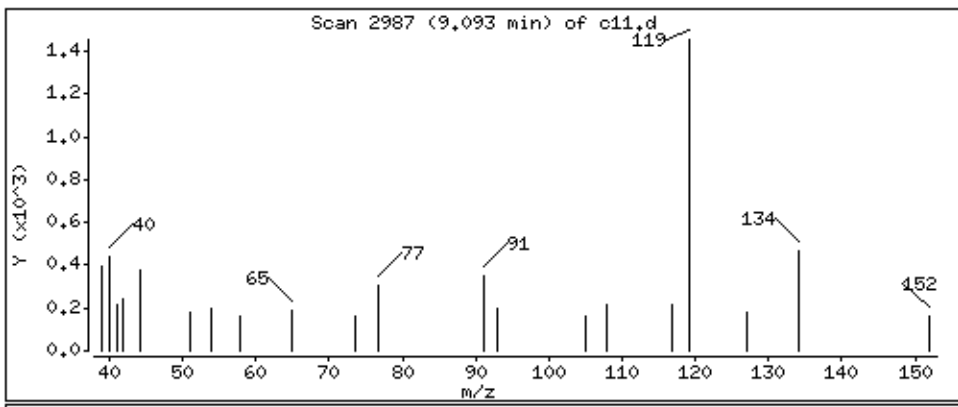
Operator: dae

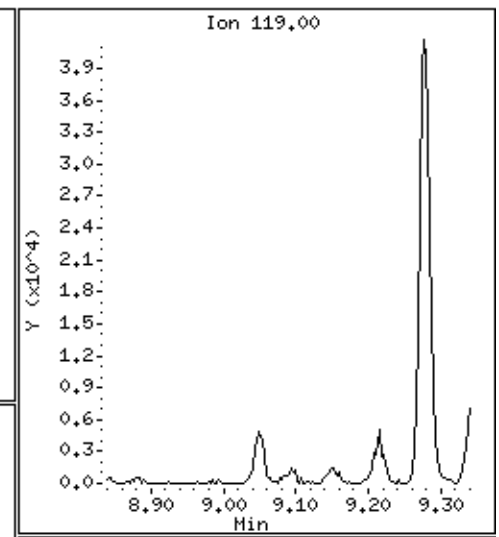
Column phase: DB-624

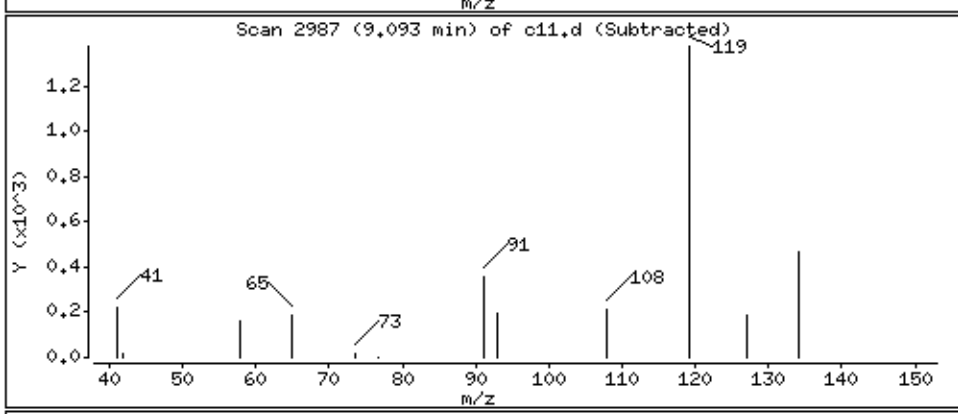
Column diameter: 0.18

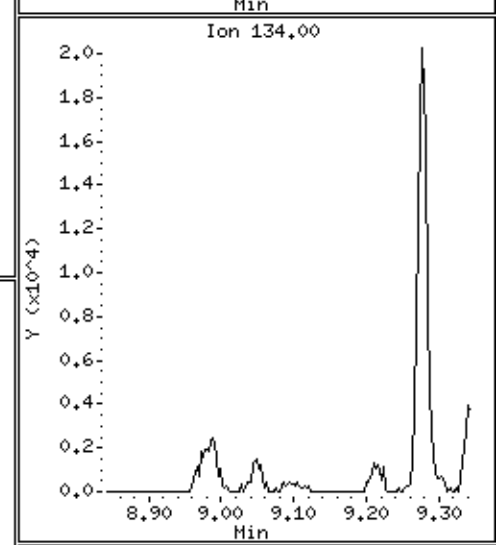
90 p-Isopropyltoluene

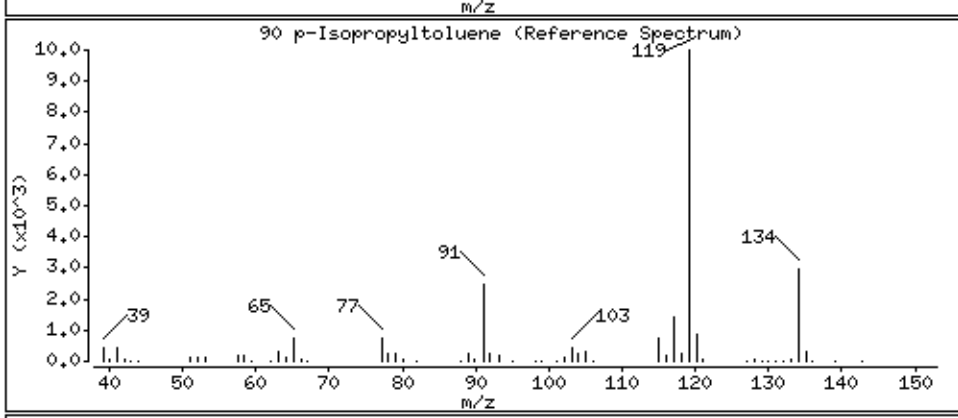
Concentration: 0.218 ppb

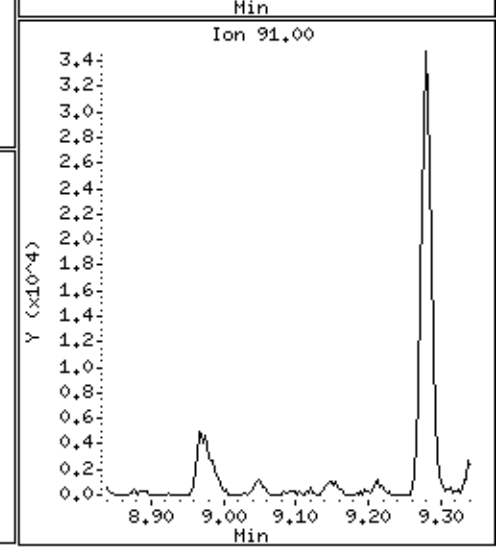


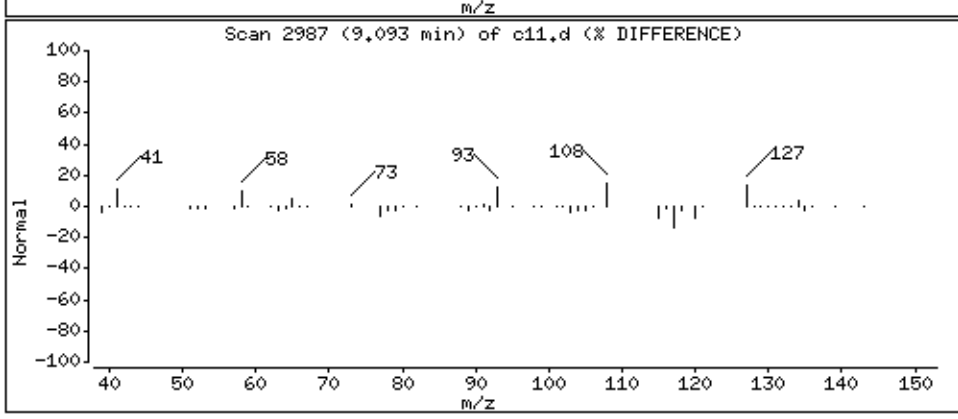












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

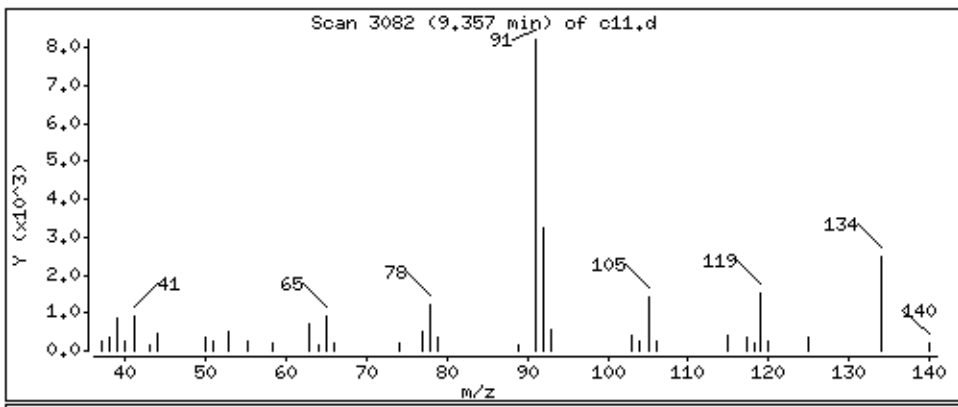
Operator: dae

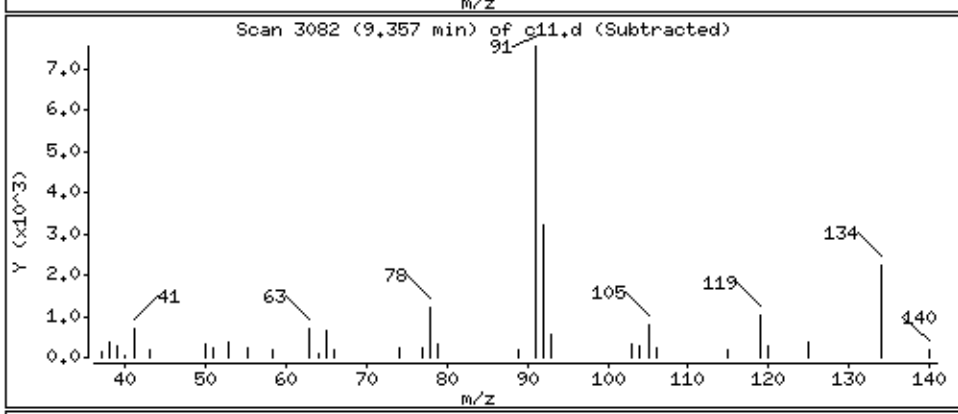
Column phase: DB-624

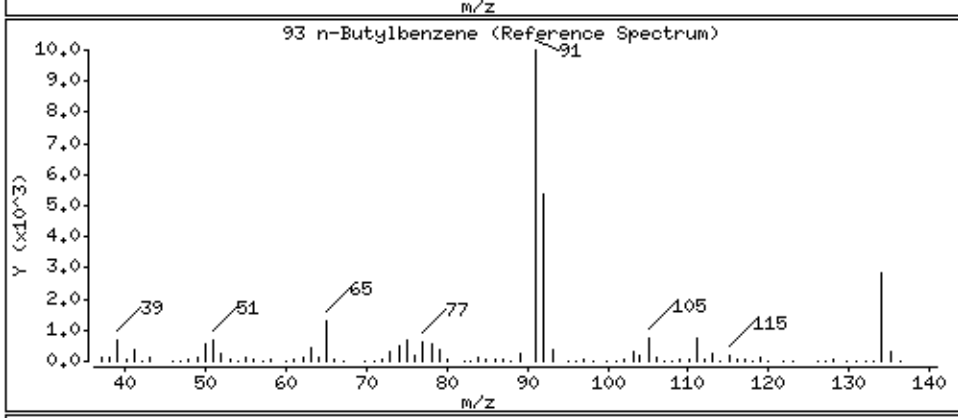
Column diameter: 0.18

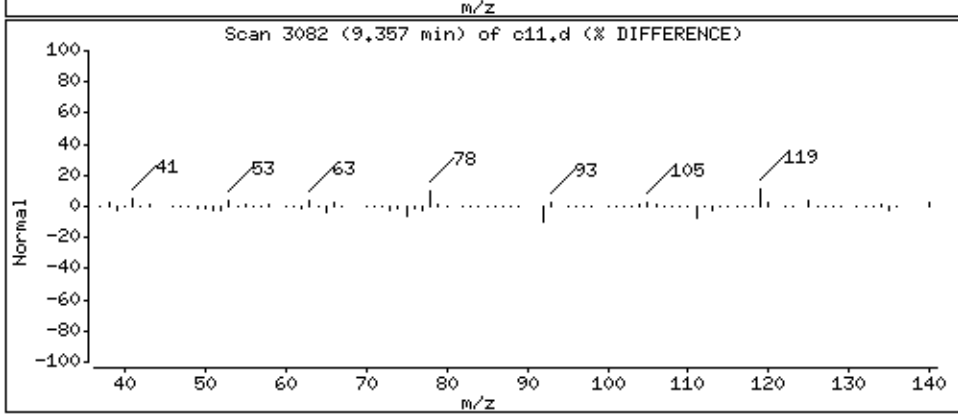
93 n-Butylbenzene

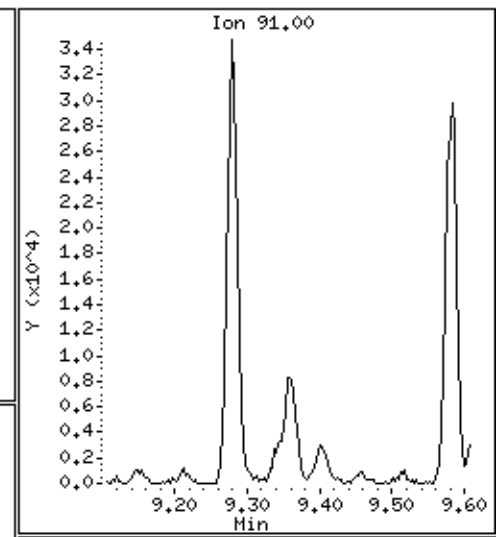
Concentration: 1.94 ppb

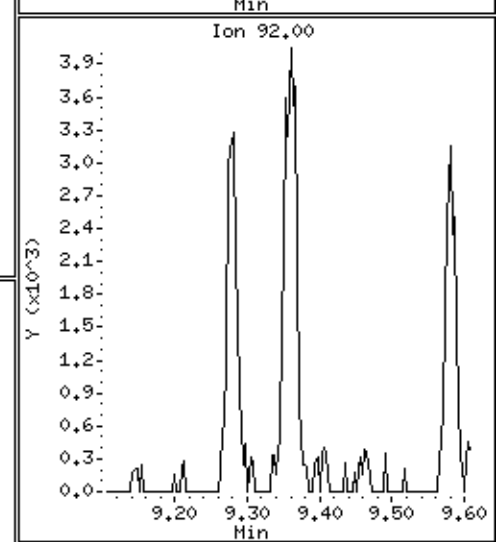


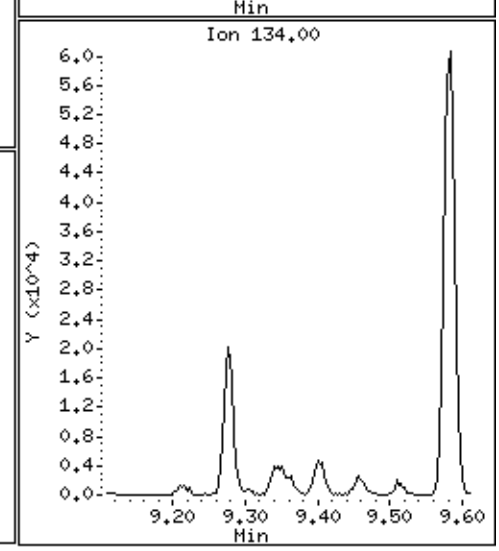












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

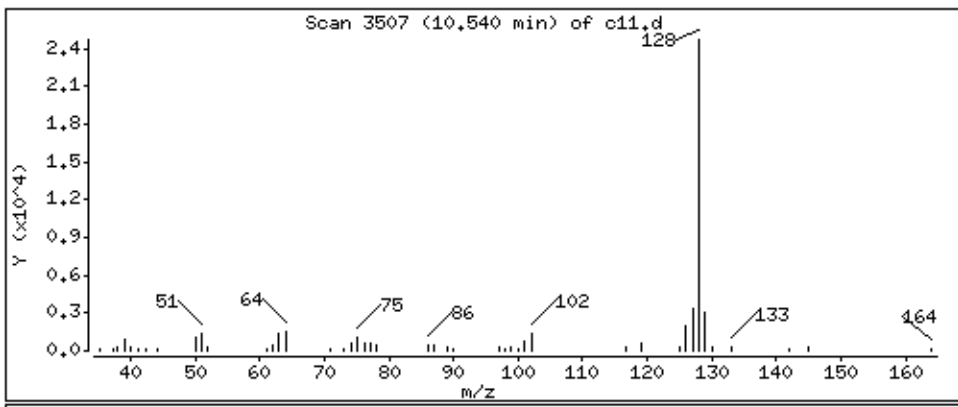
Operator: dae

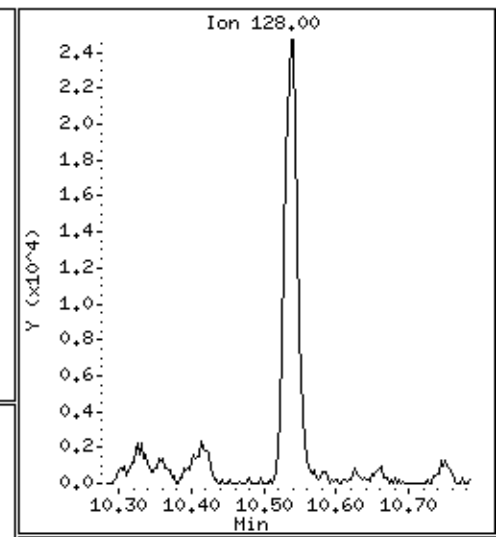
Column phase: DB-624

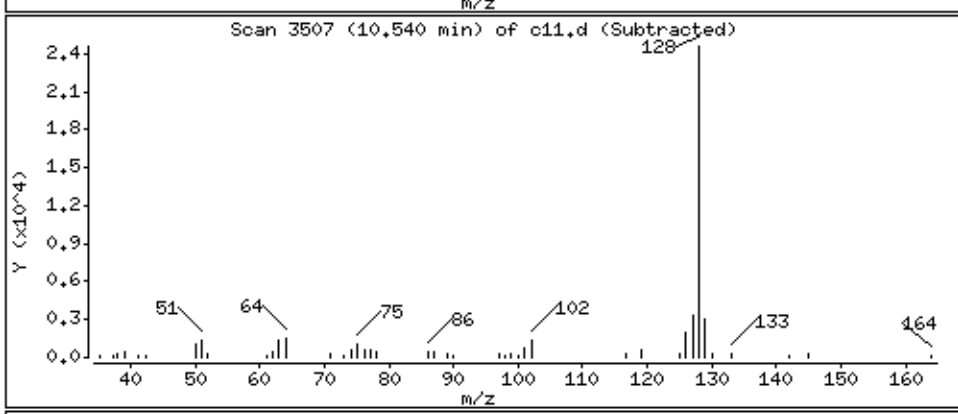
Column diameter: 0.18

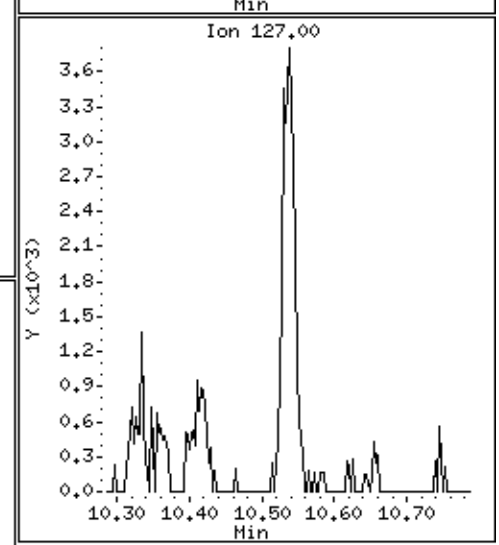
98 Naphthalene

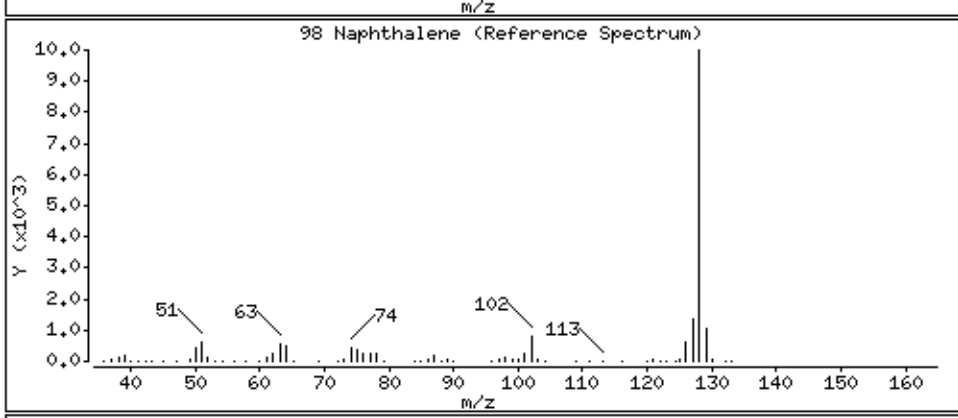
Concentration: 4.00 ppb

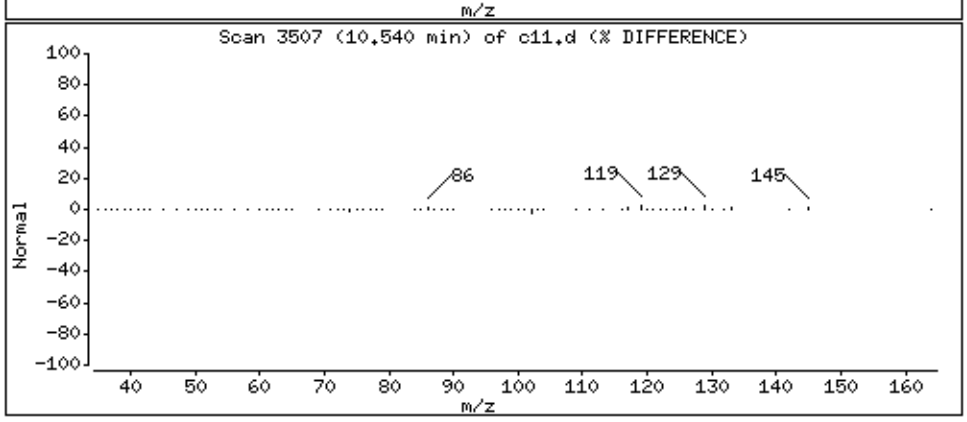












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Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

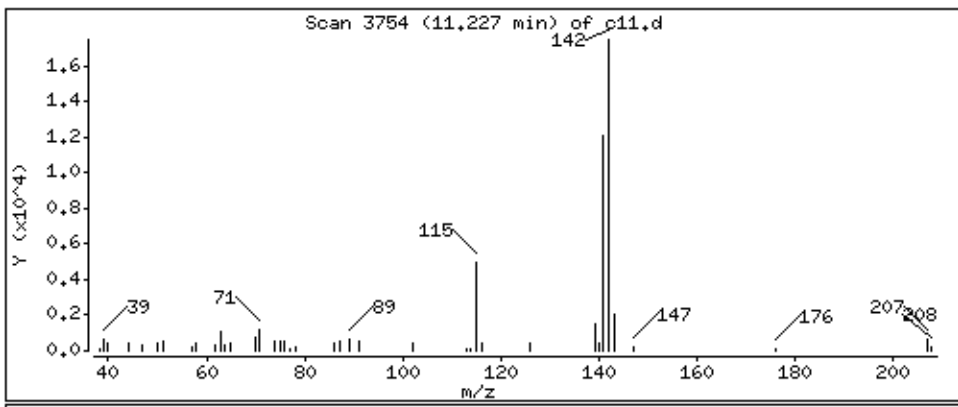
Operator: dae

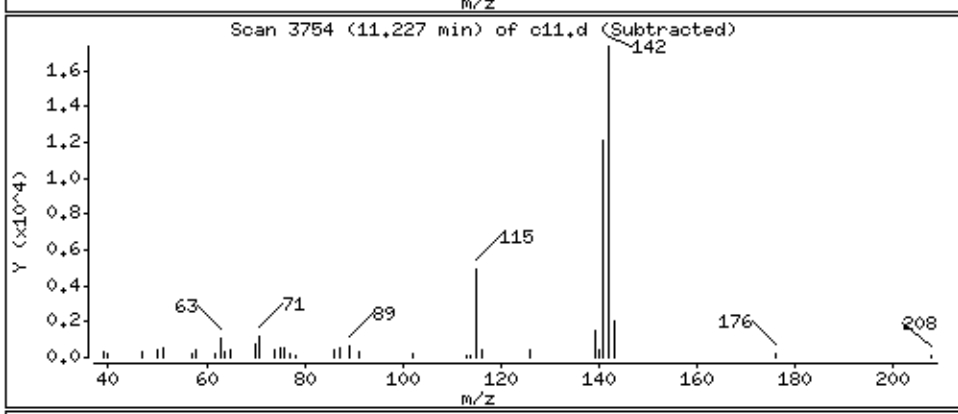
Column phase: DB-624

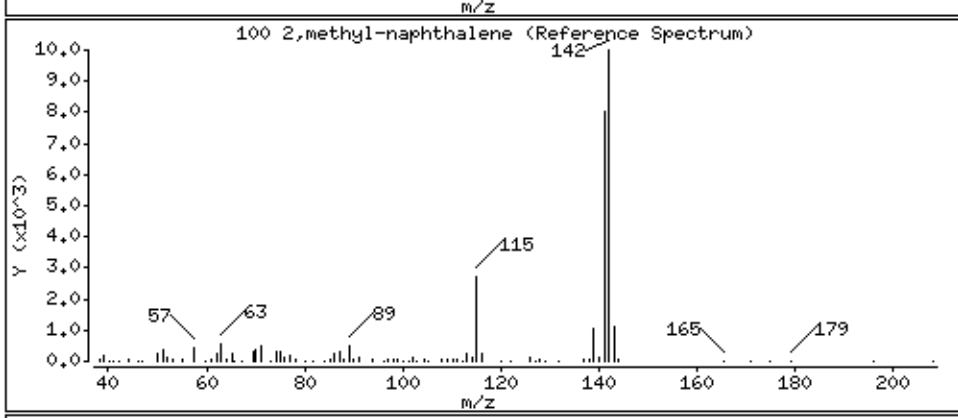
Column diameter: 0.18

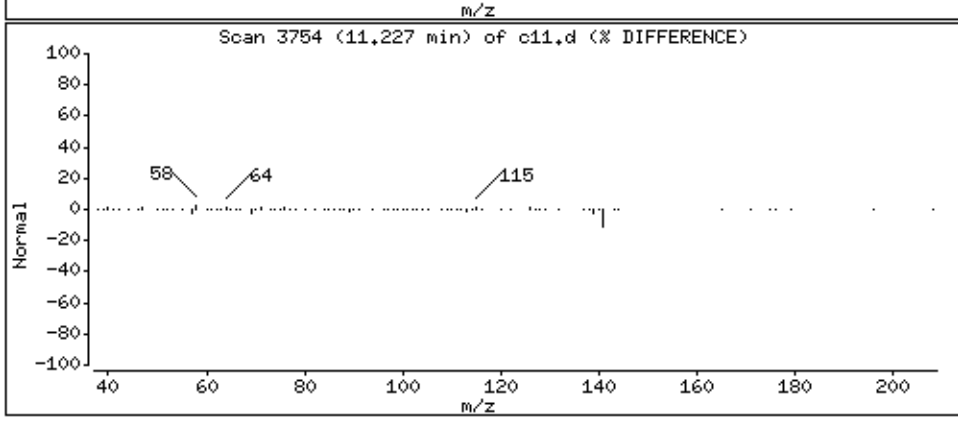
100 2,methyl-naphthalene

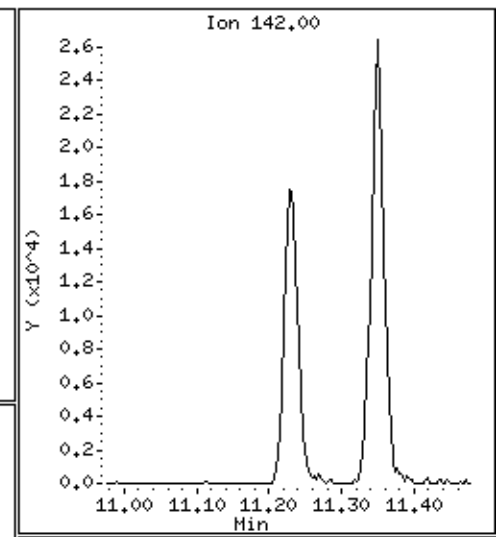
Concentration: 5.20 ppb

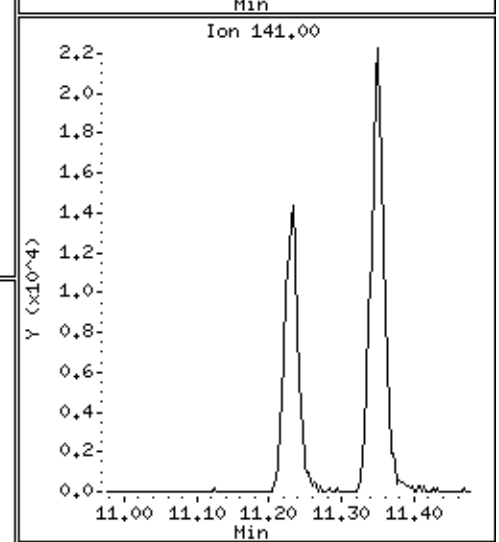


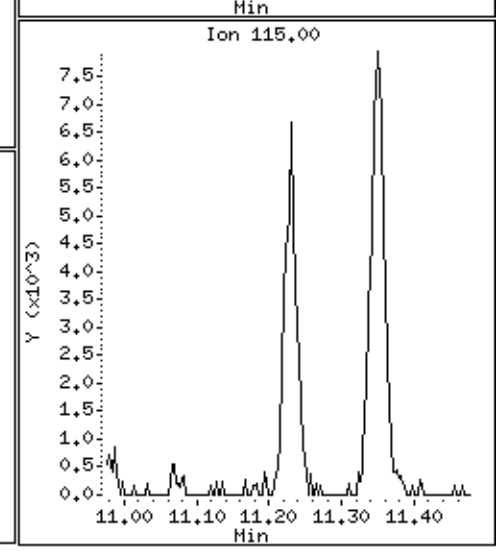












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c11.d

Date : 25-JAN-2017 18:39

Client ID: FD-1

Instrument: 50mv2a.i

Sample Info: 50163373004

Purge Volume: 5.0

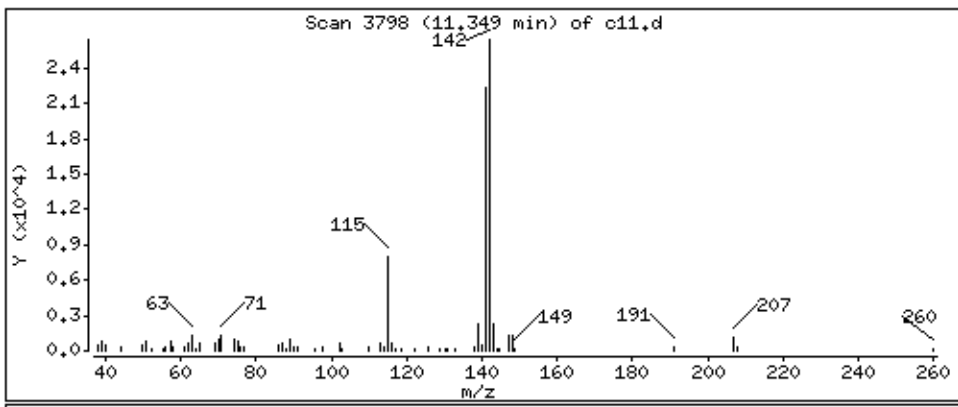
Operator: dae

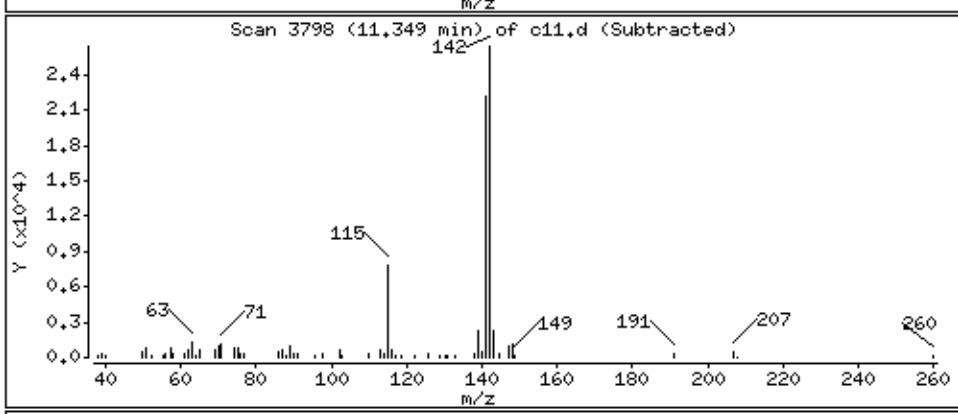
Column phase: DB-624

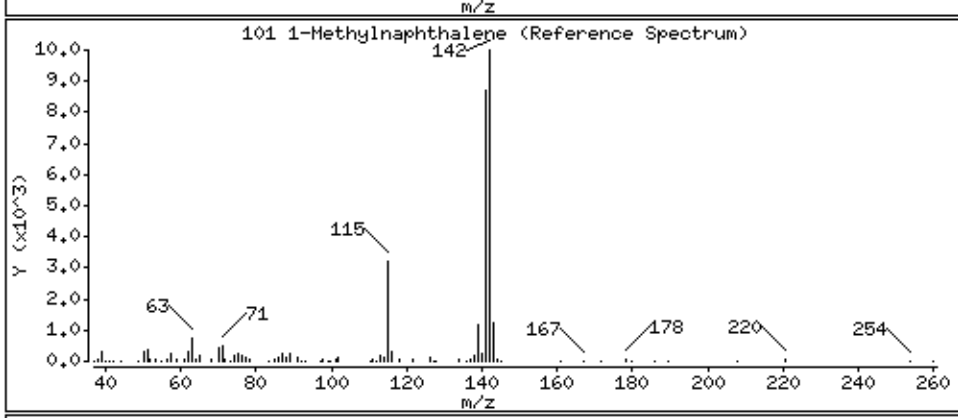
Column diameter: 0.18

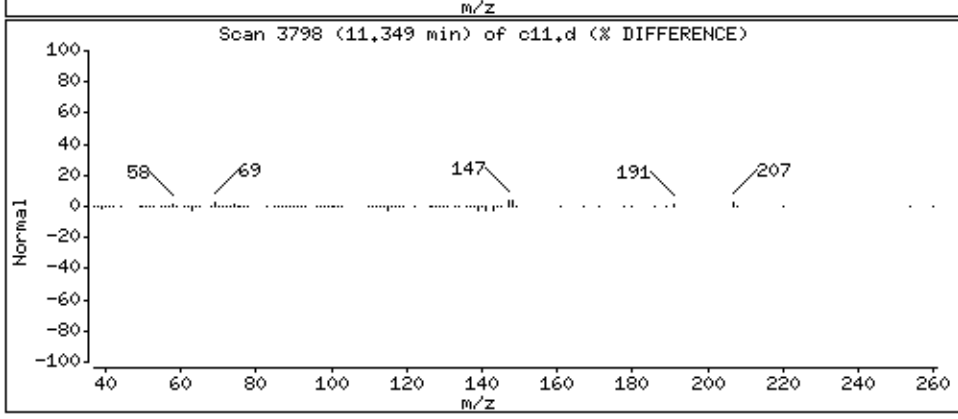
101 1-Methylnaphthalene

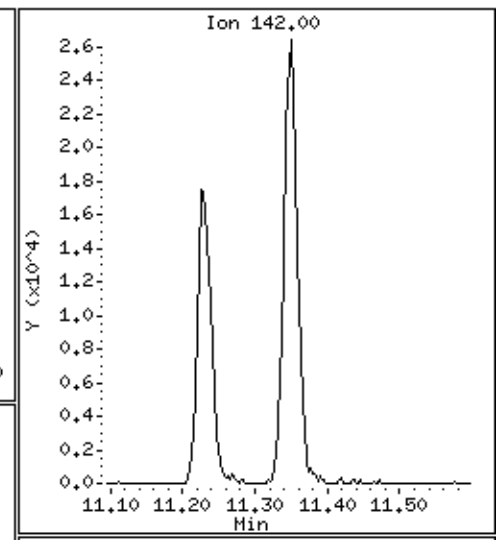
Concentration: 8.67 ppb

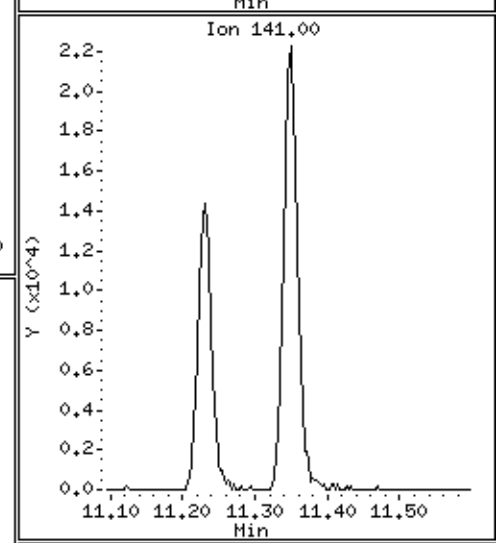


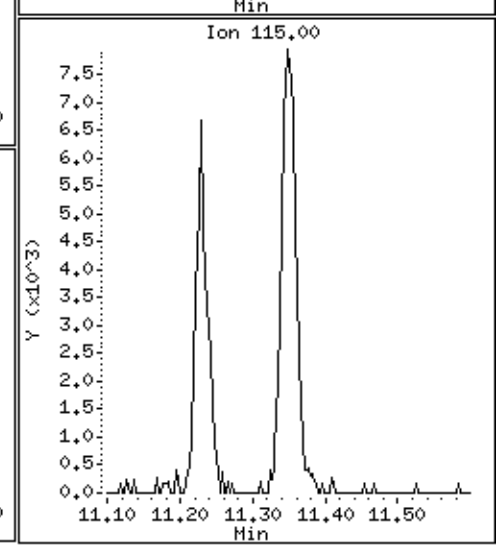












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Injection Date: 25-JAN-2017 18:39
Instrument: 50mv2a.i
Lab Sample ID: 50163373004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

TB-1

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 01:58
Lab Sample ID: 50163373005
Date Analyzed: 01/25/2017 01:58
Lab File ID: A012417.B\A06.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

TB-1

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 01:58
Lab Sample ID: 50163373005
Date Analyzed: 01/25/2017 01:58
Lab File ID: A012417.B\A06.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\a06.d
Lab Smp Id: 50163373005 Client Smp ID: TB-1
Inj Date : 25-JAN-2017 01:58
Operator : dae Inst ID: 50mv2a.i
Smp Info : 50163373005
Misc Info : 99148
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.796)	84843	46.7516	46.8	
* 45 Fluorobenzene	96	4.070	4.065	(1.000)	359808	50.0000		
$ 57 Toluene-d8	98	5.951	5.946	(0.808)	341233	50.0286	50.0	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	262726	50.0000		
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	113644	48.6453	48.6	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	126172	50.0000		

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a06.d

Date : 25-JAN-2017 01:58

Client ID: TB-1

Instrument: 50mv2a.i

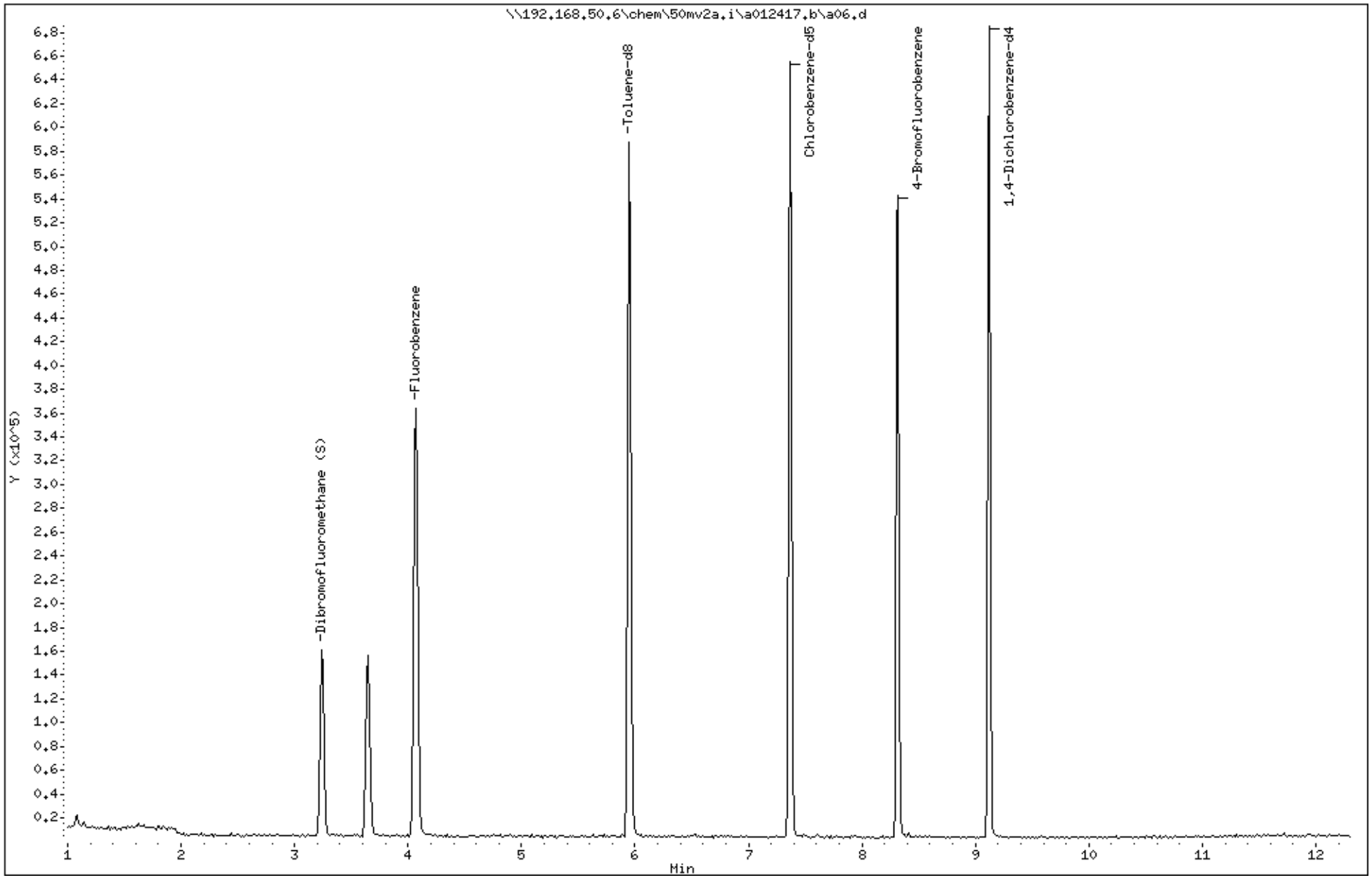
Sample Info: 50163373005

Purge Volume: 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/a06.d
Injection Date: 25-JAN-2017 01:58
Instrument: 50mv2a.i
Lab Sample ID: 50163373005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Linear	0.19294	0.13453	0.13113	0.13334	0.13486	0.11360
Acrolein	Averaged	0.05311	0.04739	0.05015	0.05472	0.05330	0.05413
Acrylonitrile	Linear	0.24644	0.22020	0.16056	0.16353	0.16438	0.14884
Benzene	Averaged	1.78605	1.43815	1.23013	1.22151	1.30875	1.25659
Bromobenzene	Averaged	0.89870	0.75430	0.68078	0.65441	0.65472	0.65829
Bromochloromethane	Averaged	0.36327	0.30979	0.26506	0.26453	0.27932	0.26392
Bromodichloromethane	Averaged	0.50987	0.51330	0.40096	0.39621	0.42730	0.39941
Bromoform	Averaged	0.91526	0.80286	0.68288	0.65969	0.74066	0.69886
Bromomethane	Linear	0.44351	0.34980	0.28563	0.24344	0.23701	0.19736
2-Butanone (MEK)	Averaged	0.06562	0.05367	0.04673	0.04718	0.04941	0.04687
n-Butylbenzene	Averaged	3.05369	2.38457	1.94725	2.02578	2.12280	2.14195
sec-Butylbenzene	Averaged	3.80024	3.33397	3.13437	3.04447	3.27961	3.23967
tert-Butylbenzene	Averaged	3.13504	3.24746	2.58865	2.94898	2.83886	2.67887
Carbon disulfide	Averaged	1.18438	0.95216	0.88028	0.87162	0.91162	0.88871
Carbon tetrachloride	Averaged	0.59728	0.52090	0.45928	0.45109	0.47296	0.45319
Chlorobenzene	Averaged	1.41047	1.18328	1.08000	1.11474	1.17611	1.13621
Chloroethane	Averaged	0.19817	0.31228	0.25570	0.28147	0.23931	0.25582
Chloroform	Averaged	0.67705	0.57303	0.52398	0.54759	0.54923	0.53302
Chloromethane	Averaged	0.34963	0.35253	0.31348	0.31996	0.31668	0.32447
2-Chlorotoluene	Averaged	2.70964	2.62161	2.21554	2.10390	2.18597	2.14219
4-Chlorotoluene	Averaged	1.04180	0.80225	0.81773	0.84137	0.86482	0.81134
Dibromochloromethane	Averaged	0.56296	0.49607	0.43252	0.46074	0.48664	0.45145
1,2-Dibromoethane (EDB)	Averaged	0.47047	0.45274	0.40819	0.41517	0.42307	0.40570
Dibromomethane	Averaged	0.25621	0.22928	0.20495	0.19093	0.20935	0.20189
1,2-Dichlorobenzene	Averaged	2.06251	1.62820	1.56254	1.55245	1.72482	1.62886
1,3-Dichlorobenzene	Averaged	1.92754	1.73040	1.66642	1.70199	1.74739	1.67126
1,4-Dichlorobenzene	Averaged	2.49333	1.98160	1.80095	1.71018	1.83417	1.70808
trans-1,4-Dichloro-2-butene	Averaged	0.18930	0.16257	0.15452	0.15314	0.15106	0.14248
Dichlorodifluoromethane	Averaged	0.25436	0.27998	0.30215	0.29903	0.29886	0.29725
1,1-Dichloroethane	Averaged	0.69278	0.62409	0.54628	0.56888	0.58641	0.56675
1,2-Dichloroethane	Averaged	0.59751	0.46711	0.44521	0.43973	0.45417	0.43300
1,1-Dichloroethene	Linear	0.55242	0.42449	0.30454	0.30039	0.31471	0.30782
cis-1,2-Dichloroethene	Averaged		0.40644	0.35987	0.35216	0.35549	0.34047
trans-1,2-Dichloroethene	Averaged		0.39029	0.29690	0.31087	0.32161	0.31125
1,2-Dichloropropane	Averaged	0.40189	0.36393	0.33686	0.32145	0.33011	0.32341

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged	0.82255	0.73375	0.66308	0.67340	0.69685	0.68830
2,2-Dichloropropane	Averaged		0.59915	0.51718	0.46791	0.50489	0.48229
1,1-Dichloropropene	Averaged	0.51843	0.49834	0.46608	0.45938	0.47527	0.45848
cis-1,3-Dichloropropene	Averaged	0.83488	0.79939	0.67722	0.67552	0.71471	0.69555
trans-1,3-Dichloropropene	Averaged	0.78802	0.70037	0.58881	0.60791	0.66099	0.64566
Ethylbenzene	Averaged	0.71988	0.68882	0.59697	0.58814	0.63324	0.62572
Ethyl methacrylate	Averaged	0.87341	0.70615	0.54792	0.64687	0.66664	0.62179
Hexachloro-1,3-butadiene	Averaged	0.40611	0.41836	0.41908	0.40914	0.44582	0.44147
n-Hexane	Averaged		0.51793	0.44801	0.41493	0.48470	0.45710
2-Hexanone	Averaged	0.36312	0.32932	0.28267	0.31773	0.32348	0.32727
Iodomethane	Linear	0.31309	0.29091	0.26300	0.29643	0.34672	0.43681
Isopropylbenzene (Cumene)	Averaged	2.06654	1.81191	1.54727	1.67825	1.81136	1.80872
p-Isopropyltoluene	Averaged	3.14829	2.71089	2.52920	2.48976	2.72911	2.71970
Methylene Chloride	Linear	0.65208	0.48718	0.36148	0.31961	0.30681	0.30298
1-Methylnaphthalene	Averaged	2.04925	1.44903	1.33651	1.28934	1.38716	1.47784
2-Methylnaphthalene	Averaged	2.09565	1.69900	1.34704	1.48877	1.61715	1.70103
4-Methyl-2-pentanone (MIBK)	Averaged	0.65304	0.51889	0.40898	0.45880	0.49601	0.48660
Methyl-tert-butyl ether	Averaged	1.37330	1.13395	0.95160	1.05339	1.08031	1.01101
Naphthalene	Averaged	3.73155	3.03721	2.63881	2.69166	2.96342	3.02272
n-Propylbenzene	Averaged	4.15394	3.44541	3.22153	3.34621	3.75793	3.68020
Styrene	Averaged	1.35775	1.18601	1.05883	1.20253	1.24690	1.23843
1,1,1,2-Tetrachloroethane	Averaged	0.49821	0.47585	0.39154	0.43696	0.45584	0.44425
1,1,2,2-Tetrachloroethane	Averaged	1.22136	1.02605	0.97332	0.94160	1.03857	0.98640
Tetrachloroethene	Averaged	0.80189	0.61499	0.55487	0.49953	0.52867	0.52192
Toluene	Averaged		2.10111	1.70025	1.79969	1.90025	1.79074
1,2,3-Trichlorobenzene	Averaged	1.04662	1.03529	0.87656	0.88820	0.96019	0.99443
1,2,4-Trichlorobenzene	Averaged	1.17135	1.04883	0.86526	0.96131	1.03672	1.02901
1,1,1-Trichloroethane	Averaged	0.69671	0.58478	0.54431	0.53431	0.54839	0.51214
1,1,2-Trichloroethane	Averaged	0.35085	0.40170	0.34233	0.32889	0.33422	0.31813
Trichloroethene	Averaged		0.37094	0.34813	0.31857	0.33150	0.31925
Trichlorofluoromethane	Averaged	0.35703	0.47364	0.48570	0.51905	0.52593	0.53356
1,2,3-Trichloropropane	Averaged	0.44769	0.43653	0.30111	0.34546	0.35425	0.32817
1,2,4-Trimethylbenzene	Averaged	3.53452	2.90853	2.61001	2.53086	2.78061	2.62832
1,3,5-Trimethylbenzene	Averaged	3.20071	2.87066	2.45767	2.51005	2.71859	2.56931
Vinyl acetate	Averaged	0.51721	0.73843	0.68749	0.73047	0.72906	0.77645

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged	0.31240	0.38530	0.38301	0.40760	0.42086	0.42309
m&p-Xylene	Averaged	0.98995	0.78383	0.70324	0.68978	0.76807	0.74081
o-Xylene	Averaged	0.66624	0.74836	0.69945	0.70167	0.73741	0.70652
4-Bromofluorobenzene (S)	Averaged	0.44802	0.44840	0.44693	0.44172	0.44323	0.44677
Dibromofluoromethane (S)	Averaged	0.25349	0.25383	0.25015	0.25464	0.24745	0.25146
Toluene-d8 (S)	Averaged	1.27815	1.29205	1.29698	1.31218	1.29579	1.29127

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Linear	0.11234	0.11362
Acrolein	Averaged	0.05290	0.05573
Acrylonitrile	Linear	0.14180	0.14951
Benzene	Averaged	1.22182	1.24488
Bromobenzene	Averaged	0.63037	0.64581
Bromochloromethane	Averaged	0.21855	0.23106
Bromodichloromethane	Averaged	0.38178	0.38811
Bromoform	Averaged	0.68194	0.65573
Bromomethane	Linear	0.17548	
2-Butanone (MEK)	Averaged	0.04431	0.04466
n-Butylbenzene	Averaged	2.16095	2.21964
sec-Butylbenzene	Averaged	3.14146	3.14981
tert-Butylbenzene	Averaged	2.62734	2.60257
Carbon disulfide	Averaged	0.88168	0.92718
Carbon tetrachloride	Averaged	0.44686	0.46125
Chlorobenzene	Averaged	1.08195	1.10777
Chloroethane	Averaged	0.26002	0.21060
Chloroform	Averaged	0.52120	0.53685
Chloromethane	Averaged	0.30518	0.33565
2-Chlorotoluene	Averaged	2.08297	2.08227
4-Chlorotoluene	Averaged	0.80507	0.79160
Dibromochloromethane	Averaged	0.43087	0.43259
1,2-Dibromoethane (EDB)	Averaged	0.39348	0.39447
Dibromomethane	Averaged	0.18719	0.19639
1,2-Dichlorobenzene	Averaged	1.56932	1.53049
1,3-Dichlorobenzene	Averaged	1.62538	1.58529
1,4-Dichlorobenzene	Averaged	1.65152	1.61880
trans-1,4-Dichloro-2-butene	Averaged	0.13582	0.13794
Dichlorodifluoromethane	Averaged	0.28564	0.29389
1,1-Dichloroethane	Averaged	0.55322	0.57812
1,2-Dichloroethane	Averaged	0.41464	0.42287
1,1-Dichloroethene	Linear	0.29568	0.30356
cis-1,2-Dichloroethene	Averaged	0.33104	0.34371
trans-1,2-Dichloroethene	Averaged	0.30480	0.32216
1,2-Dichloropropane	Averaged	0.30353	0.30823

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.63950	0.64271
2,2-Dichloropropane	Averaged	0.46990	0.48506
1,1-Dichloropropene	Averaged	0.44604	0.45822
cis-1,3-Dichloropropene	Averaged	0.68166	0.69246
trans-1,3-Dichloropropene	Averaged	0.61391	0.62295
Ethylbenzene	Averaged	0.59375	0.60945
Ethyl methacrylate	Averaged	0.59838	0.61007
Hexachloro-1,3-butadiene	Averaged	0.44332	0.46957
n-Hexane	Averaged	0.44239	0.46514
2-Hexanone	Averaged	0.31042	0.30981
Iodomethane	Linear	0.44085	0.42600
Isopropylbenzene (Cumene)	Averaged	1.74375	1.78171
p-Isopropyltoluene	Averaged	2.67514	2.66639
Methylene Chloride	Linear	0.28962	0.30108
1-Methylnaphthalene	Averaged	1.61298	1.68031
2-Methylnaphthalene	Averaged	1.91119	1.99838
4-Methyl-2-pentanone (MIBK)	Averaged	0.45888	0.45299
Methyl-tert-butyl ether	Averaged	0.99520	1.10913
Naphthalene	Averaged	3.18529	3.28583
n-Propylbenzene	Averaged	3.65798	3.68271
Styrene	Averaged	1.19662	1.21070
1,1,1,2-Tetrachloroethane	Averaged	0.41568	0.41807
1,1,2,2-Tetrachloroethane	Averaged	0.93523	0.91970
Tetrachloroethene	Averaged	0.50968	0.51436
Toluene	Averaged	1.72383	1.78464
1,2,3-Trichlorobenzene	Averaged	1.06442	1.10927
1,2,4-Trichlorobenzene	Averaged	1.09171	1.13176
1,1,1-Trichloroethane	Averaged	0.49532	0.51000
1,1,2-Trichloroethane	Averaged	0.30495	0.30424
Trichloroethene	Averaged	0.30878	0.31463
Trichlorofluoromethane	Averaged	0.50943	0.52318
1,2,3-Trichloropropane	Averaged	0.31745	0.30204
1,2,4-Trimethylbenzene	Averaged	2.56772	2.59417
1,3,5-Trimethylbenzene	Averaged	2.53627	2.55144
Vinyl acetate	Averaged	0.76574	0.82146

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.40947	0.42495
m&p-Xylene	Averaged	0.70460	0.72768
o-Xylene	Averaged	0.67877	0.68495
4-Bromofluorobenzene (S)	Averaged	0.44495	0.43680
Dibromofluoromethane (S)	Averaged	0.25199	0.25449
Toluene-d8 (S)	Averaged	1.28849	1.32969

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Linear		0.99993	0.00584	0.11313	
Acrolein	Averaged	5.09844			0.05268	
Acrylonitrile	Linear		0.99975	-0.00071	0.14805	
Benzene	Averaged	14.55401			1.33849	
Bromobenzene	Averaged	12.87367			0.69717	
Bromochloromethane	Averaged	16.56482			0.27444	
Bromodichloromethane	Averaged	12.59592			0.42712	
Bromoform	Averaged	12.22422			0.72974	
Bromomethane	Linear		0.99853	0.00665	0.17511	
2-Butanone (MEK)	Averaged	14.13592			0.04981	
n-Butylbenzene	Averaged	15.36842			2.25708	
sec-Butylbenzene	Averaged	7.19428			3.26545	
tert-Butylbenzene	Averaged	9.00129			2.83347	
Carbon disulfide	Averaged	11.04829			0.93720	
Carbon tetrachloride	Averaged	10.74588			0.48285	
Chlorobenzene	Averaged	9.28337			1.16132	
Chloroethane	Averaged	14.53529			0.25167	
Chloroform	Averaged	9.13381			0.55775	
Chloromethane	Averaged	5.24238			0.32720	
2-Chlorotoluene	Averaged	11.06758			2.26801	
4-Chlorotoluene	Averaged	9.70046			0.84700	
Dibromochloromethane	Averaged	9.65208			0.46923	
1,2-Dibromoethane (EDB)	Averaged	6.57524			0.42041	
Dibromomethane	Averaged	10.92213			0.20952	
1,2-Dichlorobenzene	Averaged	10.55450			1.65740	
1,3-Dichlorobenzene	Averaged	6.07374			1.70696	
1,4-Dichlorobenzene	Averaged	15.37708			1.84983	
trans-1,4-Dichloro-2-butene	Averaged	11.15062			0.15335	
Dichlorodifluoromethane	Averaged	5.48123			0.28889	
1,1-Dichloroethane	Averaged	8.14161			0.58957	
1,2-Dichloroethane	Averaged	12.69165			0.45928	
1,1-Dichloroethene	Linear		0.99983	0.00042	0.30203	
cis-1,2-Dichloroethene	Averaged	6.87709			0.35560	
trans-1,2-Dichloroethene	Averaged	9.66120			0.32256	
1,2-Dichloropropane	Averaged	9.63983			0.33618	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-8

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	8.61893			0.69502	
2,2-Dichloropropane	Averaged	9.06863			0.50377	
1,1-Dichloropropene	Averaged	5.12087			0.47253	
cis-1,3-Dichloropropene	Averaged	8.47158			0.72142	
trans-1,3-Dichloropropene	Averaged	9.87722			0.65358	
Ethylbenzene	Averaged	7.59169			0.63200	
Ethyl methacrylate	Averaged	14.97967			0.65890	
Hexachloro-1,3-butadiene	Averaged	5.07993			0.43161	
n-Hexane	Averaged	7.11732			0.46146	
2-Hexanone	Averaged	7.07934			0.32048	
Iodomethane	Linear		0.99965	-0.00539	0.42964	
Isopropylbenzene (Cumene)	Averaged	8.23904			1.78119	
p-Isopropyltoluene	Averaged	7.34246			2.70856	
Methylene Chloride	Linear		0.99966	0.00050	0.29878	
1-Methylnaphthalene	Averaged	16.02855			1.53530	
2-Methylnaphthalene	Averaged	14.76464			1.73228	
4-Methyl-2-pentanone (MIBK)	Averaged	14.84666			0.49177	
Methyl-tert-butyl ether	Averaged	11.94586			1.08849	
Naphthalene	Averaged	11.29386			3.06956	
n-Propylbenzene	Averaged	7.93704			3.61824	
Styrene	Averaged	6.80443			1.21222	
1,1,1,2-Tetrachloroethane	Averaged	7.80773			0.44205	
1,1,2,2-Tetrachloroethane	Averaged	9.65117			1.00528	
Tetrachloroethene	Averaged	17.81333			0.56824	
Toluene	Averaged	7.43977			1.82864	
1,2,3-Trichlorobenzene	Averaged	8.37431			0.99687	
1,2,4-Trichlorobenzene	Averaged	9.26566			1.04199	
1,1,1-Trichloroethane	Averaged	11.62468			0.55325	
1,1,2-Trichloroethane	Averaged	9.36857			0.33566	
Trichloroethene	Averaged	6.70140			0.33026	
Trichlorofluoromethane	Averaged	11.79506			0.49094	
1,2,3-Trichloropropane	Averaged	16.24530			0.35409	
1,2,4-Trimethylbenzene	Averaged	12.04201			2.76934	
1,3,5-Trimethylbenzene	Averaged	9.33035			2.67684	
Vinyl acetate	Averaged	12.65903			0.72079	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 21:54 01:44

LAB FILE ID

CAL1 = A012217CAL.B\A01CAL1.D CAL2 = A012217CAL.B\A02CAL2.D CAL3 = A012217CAL.B\A03CAL3.D

CAL4 = A012217CAL.B\A04CAL4.D CAL5 = A012217CAL.B\A05CAL5.D CAL6 = A012217CAL.B\A06CAL6.D

CAL7 = A012217CAL.B\A07CAL7.D CAL8 = A012217CAL.B\A08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	9.44209			0.39584	
m&p-Xylene	Averaged	12.72253			0.76350	
o-Xylene	Averaged	3.99952			0.70292	
4-Bromofluorobenzene (S)	Averaged	0.88067			0.44460	
Dibromofluoromethane (S)	Averaged	0.98111			0.25218	
Toluene-d8 (S)	Averaged	1.22718			1.29808	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-1

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Linear	0.29202	0.26035	0.25927	0.18452	0.18742	0.15983
Acrolein	Averaged	0.05703	0.07765	0.07578	0.07258	0.06579	0.06931
Acrylonitrile	Linear	0.38654	0.25727	0.27480	0.22308	0.21402	0.20749
Benzene	Averaged	1.88639	1.70940	1.49375	1.48169	1.46506	1.51941
Bromobenzene	Averaged	1.25568	0.98207	0.85531	0.82988	0.86363	0.87115
Bromochloromethane	Averaged	0.44426	0.38384	0.38238	0.36525	0.36378	0.34583
Bromodichloromethane	Averaged	0.73840	0.57691	0.55574	0.52448	0.54092	0.51909
Bromoform	Averaged	0.93336	0.72926	0.59523	0.70553	0.69908	0.73842
Bromomethane	Linear	0.38062	0.27665	0.25815	0.22071	0.20272	0.17164
2-Butanone (MEK)	Averaged	0.05654	0.05332	0.05557	0.06233	0.05841	0.06014
n-Butylbenzene	Averaged	3.19432	2.50473	2.36853	2.45826	2.39475	2.55623
sec-Butylbenzene	Averaged	4.54250	3.59684	3.49159	3.49249	3.44351	3.59834
tert-Butylbenzene	Linear	4.15301	3.88688	3.02351	3.05488	3.43868	3.53856
Carbon disulfide	Linear	1.58124	1.35942	1.18895	1.10318	1.13718	0.96999
Carbon tetrachloride	Averaged	0.62540	0.59508	0.53990	0.51203	0.55705	0.54188
Chlorobenzene	Averaged	1.61593	1.45942	1.32900	1.33205	1.33576	1.39413
Chloroethane	Averaged	0.37981	0.32930	0.25998	0.27399	0.28998	0.28353
Chloroform	Linear	1.09740	0.83537	0.74160	0.67299	0.69614	0.67020
Chloromethane	Averaged	0.54625	0.63562	0.58623	0.48498	0.45001	0.43803
2-Chlorotoluene	Averaged	3.57273	2.42757	2.58107	2.45468	2.41579	2.44069
4-Chlorotoluene	Averaged	1.10436	1.10200	0.92748	0.96287	0.96470	0.97009
Dibromochloromethane	Averaged	0.58955	0.55779	0.48602	0.51305	0.52168	0.55091
1,2-Dibromoethane (EDB)	Averaged	0.52619	0.46208	0.46526	0.42072	0.46226	0.50276
Dibromomethane	Linear	0.40918	0.31865	0.30287	0.28298	0.26841	0.25826
1,2-Dichlorobenzene	Averaged	2.24038	1.91198	1.97219	2.01144	1.97141	2.00308
1,3-Dichlorobenzene	Averaged	2.20079	2.02950	1.89859	2.06256	1.99969	2.02770
1,4-Dichlorobenzene	Averaged	2.87687	2.32390	2.02822	2.03952	2.06857	2.09920
trans-1,4-Dichloro-2-butene	Linear	0.31770	0.13424	0.16339	0.17549	0.17451	0.17362
Dichlorodifluoromethane	Linear	0.13422	0.36441	0.38066	0.36175	0.34004	0.33817
1,1-Dichloroethane	Averaged	0.83917	0.80361	0.69990	0.71075	0.70757	0.66854
1,2-Dichloroethane	Averaged	0.67843	0.59487	0.57912	0.54496	0.58730	0.55767
1,1-Dichloroethene	Linear	0.61194	0.48246	0.40813	0.41719	0.40589	0.35273
cis-1,2-Dichloroethene	Linear	0.60296	0.54306	0.49249	0.46169	0.44458	0.41977
trans-1,2-Dichloroethene	Linear	0.85141	0.53219	0.45640	0.40721	0.40690	0.37221
1,2-Dichloropropane	Averaged	0.43815	0.49165	0.41546	0.39467	0.39981	0.39563

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged	0.76305	0.89048	0.67632	0.72237	0.73771	0.81321
2,2-Dichloropropane	Linear	0.77593	0.40787	0.42946	0.38482	0.42400	0.43403
1,1-Dichloropropene	Averaged	0.60826	0.56416	0.54400	0.49505	0.53153	0.53753
cis-1,3-Dichloropropene	Averaged	0.84059	0.59075	0.71217	0.72517	0.73940	0.83313
trans-1,3-Dichloropropene	Averaged	0.73185	0.63775	0.61331	0.58170	0.63575	0.73252
Ethylbenzene	Averaged	0.87510	0.77878	0.73192	0.76978	0.73960	0.74582
Ethyl methacrylate	Linear	1.10723	0.65690	0.66991	0.63989	0.69718	0.71957
Hexachloro-1,3-butadiene	Averaged	0.43620	0.58800	0.52701	0.47747	0.43834	0.49817
n-Hexane	Averaged	0.74371	0.56123	0.61683	0.44908	0.51381	0.51227
2-Hexanone	Averaged	0.38361	0.40436	0.41103	0.33709	0.35155	0.38103
Iodomethane	Linear	0.11647	0.12997	0.11017	0.14780	0.19854	0.30867
Isopropylbenzene (Cumene)	Averaged	2.71938	2.35402	2.13034	2.02494	2.15560	2.27463
p-Isopropyltoluene	Averaged	3.48565	3.28622	3.00945	3.06982	3.00964	3.18808
Methylene Chloride	Linear	1.24141	0.48413	0.64366	0.45180	0.44278	0.38340
1-Methylnaphthalene	Averaged	1.83188	1.48701	1.31452	1.40056	1.39037	1.59533
2-Methylnaphthalene	Averaged	1.96884	1.66626	1.50762	1.57451	1.59304	1.84890
4-Methyl-2-pentanone (MIBK)	Averaged	0.58614	0.55459	0.53208	0.49124	0.51548	0.54900
Methyl-tert-butyl ether	Averaged	1.52657	1.30551	1.30391	1.18225	1.31441	1.30934
Naphthalene	Averaged	4.39051	3.83504	3.51372	3.59295	3.59859	3.73905
n-Propylbenzene	Averaged	4.75467	3.98897	3.76140	3.93240	3.90507	4.10665
Styrene	Averaged	1.50247	1.58591	1.50496	1.46293	1.46754	1.61051
1,1,1,2-Tetrachloroethane	Averaged	0.54747	0.52242	0.50249	0.46383	0.48053	0.52145
1,1,2,2-Tetrachloroethane	Averaged	1.33393	1.21675	1.11438	1.11762	1.03413	1.03792
Tetrachloroethene	Averaged	0.66235	0.61982	0.55230	0.52611	0.57042	0.58406
Toluene	Averaged	2.58984	2.53212	1.91715	2.05422	1.97300	2.01017
1,2,3-Trichlorobenzene	Averaged	1.36323	1.10635	1.11707	1.15193	1.12013	1.21266
1,2,4-Trichlorobenzene	Averaged	1.42023	1.14632	1.12038	1.19384	1.17967	1.29391
1,1,1-Trichloroethane	Averaged	0.85426	0.69120	0.63267	0.57741	0.62299	0.59747
1,1,2-Trichloroethane	Averaged	0.49688	0.41120	0.37558	0.36528	0.33979	0.37566
Trichloroethene	Averaged	0.54911	0.35250	0.33497	0.35587	0.36689	0.37874
Trichlorofluoromethane	Averaged	0.46833	0.61619	0.55218	0.59569	0.56826	0.60856
1,2,3-Trichloropropane	Averaged	0.41008	0.37512	0.38373	0.36267	0.37536	0.35137
1,2,4-Trimethylbenzene	Averaged	3.99706	3.32777	3.15645	3.05428	3.06895	3.19054
1,3,5-Trimethylbenzene	Averaged	3.78727	3.13546	3.14632	2.95903	3.00272	3.00662
Vinyl acetate	Averaged	0.59908	0.70927	0.76837	0.85779	0.80283	0.95581

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged	0.44019	0.55852	0.51167	0.52093	0.46970	0.47997
m&p-Xylene	Averaged	1.01220	0.98510	0.89763	0.91999	0.89218	0.93553
o-Xylene	Averaged	0.96067	0.97505	0.92210	0.79242	0.89760	0.91339
4-Bromofluorobenzene (S)	Averaged	0.46525	0.47925	0.46468	0.48384	0.47781	0.48559
Dibromofluoromethane (S)	Averaged	0.28318	0.28274	0.28670	0.27853	0.27650	0.26377
Toluene-d8 (S)	Averaged	1.22354	1.23293	1.23124	1.19370	1.22952	1.23013

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Linear	0.14800	0.14613
Acrolein	Averaged	0.06603	0.06739
Acrylonitrile	Linear	0.19068	0.18734
Benzene	Averaged	1.42819	1.46071
Bromobenzene	Averaged	0.82310	0.85043
Bromochloromethane	Averaged	0.27912	0.27296
Bromodichloromethane	Averaged	0.48514	0.49233
Bromoform	Averaged	0.72388	0.73359
Bromomethane	Linear	0.15636	
2-Butanone (MEK)	Averaged	0.05752	0.05795
n-Butylbenzene	Averaged	2.44997	2.62171
sec-Butylbenzene	Averaged	3.45435	3.59005
tert-Butylbenzene	Linear	3.30126	3.39373
Carbon disulfide	Linear	0.83283	0.83744
Carbon tetrachloride	Averaged	0.49057	0.51905
Chlorobenzene	Averaged	1.29522	1.35042
Chloroethane	Averaged	0.27221	0.25476
Chloroform	Linear	0.61474	0.62593
Chloromethane	Averaged	0.40346	0.44796
2-Chlorotoluene	Averaged	2.31514	2.41677
4-Chlorotoluene	Averaged	0.90878	0.93303
Dibromochloromethane	Averaged	0.52828	0.55112
1,2-Dibromoethane (EDB)	Averaged	0.47527	0.48494
Dibromomethane	Linear	0.23958	0.24329
1,2-Dichlorobenzene	Averaged	1.84641	1.84759
1,3-Dichlorobenzene	Averaged	1.91012	1.89632
1,4-Dichlorobenzene	Averaged	1.95594	1.95237
trans-1,4-Dichloro-2-butene	Linear	0.16878	0.18243
Dichlorodifluoromethane	Linear	0.31204	0.31576
1,1-Dichloroethane	Averaged	0.62404	0.65657
1,2-Dichloroethane	Averaged	0.52048	0.51911
1,1-Dichloroethene	Linear	0.32304	0.33171
cis-1,2-Dichloroethene	Linear	0.38827	0.40034
trans-1,2-Dichloroethene	Linear	0.35096	0.36559
1,2-Dichloropropane	Averaged	0.37854	0.38024

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

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MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.78333	0.79538
2,2-Dichloropropane	Linear	0.41275	0.42451
1,1-Dichloropropene	Averaged	0.49551	0.52302
cis-1,3-Dichloropropene	Averaged	0.79472	0.83113
trans-1,3-Dichloropropene	Averaged	0.73103	0.76100
Ethylbenzene	Averaged	0.69939	0.73059
Ethyl methacrylate	Linear	0.69464	0.69972
Hexachloro-1,3-butadiene	Averaged	0.46499	0.51026
n-Hexane	Averaged	0.49790	0.49913
2-Hexanone	Averaged	0.36406	0.36390
Iodomethane	Linear	0.32888	0.34883
Isopropylbenzene (Cumene)	Averaged	2.17954	2.26534
p-Isopropyltoluene	Averaged	3.02845	3.17823
Methylene Chloride	Linear	0.35009	0.35313
1-Methylnaphthalene	Averaged	1.58641	1.70400
2-Methylnaphthalene	Averaged	1.90823	2.04631
4-Methyl-2-pentanone (MIBK)	Averaged	0.53298	0.53932
Methyl-tert-butyl ether	Averaged	1.23602	1.21260
Naphthalene	Averaged	3.67789	3.81954
n-Propylbenzene	Averaged	3.94143	4.14938
Styrene	Averaged	1.52056	1.55693
1,1,1,2-Tetrachloroethane	Averaged	0.50336	0.52560
1,1,2,2-Tetrachloroethane	Averaged	1.00719	1.01159
Tetrachloroethene	Averaged	0.54680	0.57989
Toluene	Averaged	1.90636	2.00239
1,2,3-Trichlorobenzene	Averaged	1.22343	1.30339
1,2,4-Trichlorobenzene	Averaged	1.28360	1.36175
1,1,1-Trichloroethane	Averaged	0.56228	0.56995
1,1,2-Trichloroethane	Averaged	0.36555	0.39197
Trichloroethene	Averaged	0.35999	0.36579
Trichlorofluoromethane	Averaged	0.52344	0.53692
1,2,3-Trichloropropane	Averaged	0.33370	0.33217
1,2,4-Trimethylbenzene	Averaged	2.99224	3.10061
1,3,5-Trimethylbenzene	Averaged	2.88303	2.99973
Vinyl acetate	Averaged	0.92388	0.96367

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.44267	0.45440
m&p-Xylene	Averaged	0.86312	0.90105
o-Xylene	Averaged	0.85789	0.88454
4-Bromofluorobenzene (S)	Averaged	0.48122	0.48055
Dibromofluoromethane (S)	Averaged	0.25203	0.25485
Toluene-d8 (S)	Averaged	1.22713	1.23684

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Linear		0.99982	0.02849	0.14556	
Acrolein	Averaged	9.47162			0.06895	
Acrylonitrile	Linear		0.99974	0.02423	0.18710	
Benzene	Averaged	10.22543			1.55558	
Bromobenzene	Averaged	15.89531			0.91641	
Bromochloromethane	Averaged	15.91436			0.35468	
Bromodichloromethane	Averaged	14.52351			0.55413	
Bromoform	Averaged	12.76343			0.73229	
Bromomethane	Linear		0.99912	0.00522	0.15588	
2-Butanone (MEK)	Averaged	4.76816			0.05772	
n-Butylbenzene	Averaged	10.35375			2.56856	
sec-Butylbenzene	Averaged	10.01748			3.65121	
tert-Butylbenzene	Linear		0.99976	0.00007	3.37875	
Carbon disulfide	Linear		0.99938	0.03763	0.83128	
Carbon tetrachloride	Averaged	8.11404			0.54762	
Chlorobenzene	Averaged	7.52354			1.38899	
Chloroethane	Averaged	14.30827			0.29295	
Chloroform	Linear		0.99978	0.00969	0.62260	
Chloromethane	Averaged	16.34028			0.49907	
2-Chlorotoluene	Averaged	15.84174			2.57806	
4-Chlorotoluene	Averaged	7.76428			0.98416	
Dibromochloromethane	Averaged	5.91452			0.53730	
1,2-Dibromoethane (EDB)	Averaged	6.59185			0.47494	
Dibromomethane	Linear		0.99984	0.00392	0.24204	
1,2-Dichlorobenzene	Averaged	6.32521			1.97556	
1,3-Dichlorobenzene	Averaged	5.16400			2.00316	
1,4-Dichlorobenzene	Averaged	14.25828			2.16807	
trans-1,4-Dichloro-2-butene	Linear		0.99879	-0.00400	0.18047	
Dichlorodifluoromethane	Linear		0.99982	0.00434	0.31458	
1,1-Dichloroethane	Averaged	10.24144			0.71377	
1,2-Dichloroethane	Averaged	8.98085			0.57274	
1,1-Dichloroethene	Linear		0.99969	0.00692	0.32900	
cis-1,2-Dichloroethene	Linear		0.99970	0.00464	0.39741	
trans-1,2-Dichloroethene	Linear		0.99959	0.00258	0.36235	
1,2-Dichloropropane	Averaged	9.12638			0.41177	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

MSV - FORM VI VOA-8

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	8.36965			0.77273	
2,2-Dichloropropane	Linear		0.99980	-0.00082	0.42259	
1,1-Dichloropropene	Averaged	6.88074			0.53738	
cis-1,3-Dichloropropene	Averaged	11.21729			0.75838	
trans-1,3-Dichloropropene	Averaged	10.03858			0.67811	
Ethylbenzene	Averaged	6.97837			0.75887	
Ethyl methacrylate	Linear		0.99996	0.00108	0.69890	
Hexachloro-1,3-butadiene	Averaged	10.22175			0.49255	
n-Hexane	Averaged	16.90284			0.54924	
2-Hexanone	Averaged	6.76808			0.37458	
Iodomethane	Linear		0.99920	-0.04061	0.34844	
Isopropylbenzene (Cumene)	Averaged	9.29146			2.26297	
p-Isopropyltoluene	Averaged	5.26970			3.15694	
Methylene Chloride	Linear		0.99981	0.01240	0.35052	
1-Methylnaphthalene	Averaged	11.33036			1.53876	
2-Methylnaphthalene	Averaged	11.53883			1.76421	
4-Methyl-2-pentanone (MIBK)	Averaged	5.19915			0.53760	
Methyl-tert-butyl ether	Averaged	8.08880			1.29883	
Naphthalene	Averaged	7.28014			3.77091	
n-Propylbenzene	Averaged	7.43866			4.06750	
Styrene	Averaged	3.51100			1.52647	
1,1,1,2-Tetrachloroethane	Averaged	5.26371			0.50839	
1,1,2,2-Tetrachloroethane	Averaged	10.38171			1.10919	
Tetrachloroethene	Averaged	7.49818			0.58022	
Toluene	Averaged	12.94944			2.12316	
1,2,3-Trichlorobenzene	Averaged	7.86808			1.19977	
1,2,4-Trichlorobenzene	Averaged	8.56190			1.24996	
1,1,1-Trichloroethane	Averaged	15.15273			0.63853	
1,1,2-Trichloroethane	Averaged	12.25879			0.39024	
Trichloroethene	Averaged	17.83776			0.38298	
Trichlorofluoromethane	Averaged	8.86607			0.55870	
1,2,3-Trichloropropane	Averaged	7.19266			0.36552	
1,2,4-Trimethylbenzene	Averaged	10.01148			3.23599	
1,3,5-Trimethylbenzene	Averaged	9.15362			3.11502	
Vinyl acetate	Averaged	15.60041			0.82259	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

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MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2B GC Column: Col 1 SDG No.: 50163373

Calibration Date(s): 01/22/2017 01/23/2017 Calibration Time(s): 22:10 02:01

LAB FILE ID

CAL1 = B012217CAL.B\B01CAL1.D CAL2 = B012217CAL.B\B02CAL2.D CAL3 = B012217CAL.B\B03CAL3.D

CAL4 = B012217CAL.B\B04CAL4.D CAL5 = B012217CAL.B\B05CAL5.D CAL6 = B012217CAL.B\B06CAL6.D

CAL7 = B012217CAL.B\B07CAL7.D CAL8 = B012217CAL.B\B08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	8.68330			0.48476	
m&p-Xylene	Averaged	5.41223			0.92585	
o-Xylene	Averaged	6.44405			0.90046	
4-Bromofluorobenzene (S)	Averaged	1.67247			0.47727	
Dibromofluoromethane (S)	Averaged	4.96452			0.27229	
Toluene-d8 (S)	Averaged	1.09975			1.22563	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/01/2017 7:31

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a01cal1.d
Lab Smp Id: 8260-CAL1,140426:0 Client Smp ID: 8260-CAL1,140426:0
Inj Date : 22-JAN-2017 21:54
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal1,140426:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)		REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	1100	0.50000		(QM)	NI
2 Chloromethane	50	0.952	0.952	(0.234)	1512	0.50000		(QM)	NI
3 Vinyl Chloride	62	0.999	0.999	(0.246)	1351	0.50000		(QM)	LT
4 Bromomethane	94	1.144	1.138	(0.281)	1918	0.50000		(QM)	NI
5 Chloroethane	64	1.185	1.182	(0.291)	857	0.50000		(QM)	NI
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	1544	0.50000		(QM)	GT
7 Diethyl ether	74	1.419	1.416	(0.349)	1356	0.50000		(QM)	GT
8 1,2-dichlorotrifluoroethane	67	1.438	1.433	(0.354)	3161	0.50000		(QM)	GT
9 Acrolein	56	1.491	1.489	(0.367)	4594	10.0000		(Q)	
10 1,1,2trichlorotrifluoroethane	101	1.530	1.539	(0.376)	1988	0.50000		(Q)	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	2389	0.50000		(Q)	
12 Acetone	43	1.555	1.555	(0.382)	4172	2.50000		(QM)	GT
13 Iodomethane	142	1.625	1.628	(0.400)	2708	1.00000		(Q)	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	5122	0.50000		(QM)	LT
15 Methyl Acetate	43	1.722	1.719	(0.423)	3288	0.50000		(QM)	NI
16 Acetonitrile	39	1.736	1.733	(0.427)	4729	0.50000		(QM)	GT
17 allyl chloride	41	1.736	1.733	(0.427)	6869	1.00000		(Q)	
18 Methylene Chloride	84	1.806	1.806	(0.444)	2820	0.50000		(Q)	
19 tert-Butyl Alcohol	59	1.850	1.853	(0.455)	895	1.00000		(QM)	NI
20 Acrylonitrile	53	1.942	1.942	(0.477)	4263	2.00000		(QM)	GT
21 Methyl-tert-butyl ether	73	1.959	1.964	(0.482)	5939	0.50000		(Q)	
22 1,2-Dichloroethene (trans)	96	1.975	1.973	(0.486)	2410	0.50000		(QM)	NI
23 n-Hexane	57	2.156	2.148	(0.530)	3161	0.50000		(QM)	LT

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.268	2.262	(0.558)	8947	2.00000	(QM)	NI
	25 1,1-Dichloroethane	63	2.270	2.270	(0.558)	2996	0.50000	(QM)	NI
	26 Chloroprene	53	2.332	2.323	(0.573)	2887	0.50000	(QM)	NI
	27 Ethyl acetate	88	2.771	2.763	(0.681)	997	4.00000	(QM)	NI
	28 2-Butanone	72	2.729	2.724	(0.671)	1419	2.50000	(Q)	
	29 1,2-Dichloroethene (cis)	96	2.738	2.735	(0.673)	2710	0.50000	(Q)	
	30 2,2-Dichloropropane	77	2.741	2.738	(0.674)	3438	0.50000	(QM)	NI
	31 Propionitrile	54	2.779	2.782	(0.683)	475	0.50000	(QM)	NI
	32 Methacrylonitrile	41	2.932	2.927	(0.721)	1588	0.50000	(QM)	GT
	33 Bromochloromethane	49	2.966	2.963	(0.729)	1571	0.50000	(QM)	NI
	34 Tetrahydrofuran	42	2.985	2.983	(0.734)	1245	0.50000	(QM)	NI
	35 Chloroform	83	3.077	3.069	(0.757)	2928	0.50000	(Q)	
$	36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	109623	50.0000	(Q)	
	37 1,1,1-Trichloroethane	97	3.230	3.236	(0.794)	3013	0.50000	(Q)	
	38 cyclohexane	56	3.314	3.314	(0.815)	4430	0.50000	(Q)	
	150 n-butyl chloride	56	3.378	3.378	(0.830)	4792	0.50000	(Q)	
	39 Carbon Tetrachloride	117	3.414	3.411	(0.839)	2583	0.50000	(QM)	NI
	40 1,1-Dichloropropene	75	3.422	3.419	(0.841)	2242	0.50000	(QM)	WP
	41 Benzene	78	3.656	3.659	(0.899)	7724	0.50000	(QM)	LT
	42 1,2-Dichloroethane	62	3.745	3.748	(0.921)	2584	0.50000	(QM)	NI
	43 2,2,4-Trimethylpentane	57	3.820	3.826	(0.939)	6193	0.50000	(QM)	LT
	44 Isobutyl alcohol	43	3.789	3.770	(0.932)	15247	0.50000	(QM)	GT
*	45 Fluorobenzene	96	4.068	4.068	(1.000)	432462	50.0000		
	46 isopropyl acetate	61	3.770	3.773	(0.927)	3589	2.00000	(Q)	
	47 Trichloroethene	95	4.535	4.527	(1.115)	2301	0.50000	(QM)	LT
	48 Methylcyclohexane	55	4.794	4.794	(1.179)	2932	0.50000	(QM)	NI
	49 1,2-Dichloropropane	63	4.844	4.847	(1.191)	1738	0.50000	(QM)	NI
	50 1,4-Dioxane	88	4.958	4.947	(1.219)	249	10.0000	(QM)	NI
	51 Dibromomethane	93	4.944	4.938	(1.215)	1108	0.50000	(Q)	
	52 Methyl methacrylate	69	4.977	4.961	(1.224)	1655	0.50000	(QM)	NI
	53 Bromodichloromethane	83	5.169	5.172	(1.271)	2205	0.50000	(QM)	NI
	54 2-Chloroethyl vinyl ether	63	5.545	5.531	(0.753)	2446	1.00000	(QM)	NI
	55 cis-1,3-Dichloropropene	75	5.670	5.673	(0.770)	2708	0.50000	(Q)	
	56 4-Methyl-2-Pentanone	43	5.859	5.854	(0.795)	10591	2.50000	(Q)	
$	57 Toluene-d8	98	5.948	5.948	(0.807)	414579	50.0000	(Q)	
	58 Toluene	91	6.026	6.024	(0.818)	9420	0.50000	(QM)	LT
	59 trans-1,3-Dichloropropene	75	6.324	6.316	(0.858)	2556	0.50000	(Q)	
	60 Ethyl Methacrylate	69	6.421	6.405	(0.872)	2833	0.50000	(QM)	NI
	61 1,1,2-Trichloroethane	83	6.510	6.513	(0.884)	1138	0.50000	(QM)	NI
	62 Tetrachloroethene	166	6.572	6.561	(0.892)	2601	0.50000	(Q)	
	63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	2668	0.50000	(QM)	NI
	64 2-Hexanone	43	6.753	6.739	(0.917)	5889	2.50000	(QM)	NI
	65 Dibromochloromethane	129	6.867	6.864	(0.932)	1826	0.50000	(Q)	
	66 1,2-Dibromoethane	107	6.958	6.956	(0.944)	1526	0.50000	(Q)	
*	67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	324359	50.0000	(Q)	
	68 Chlorobenzene	112	7.392	7.390	(1.003)	4575	0.50000	(Q)	
	69 1,1,1,2-Tetrachloroethane	131	7.484	7.479	(1.016)	1616	0.50000	(Q)	
	70 Ethylbenzene	106	7.490	7.484	(1.017)	2335	0.50000	(Q)	
	71 m&p-Xylene	106	7.601	7.598	(1.032)	6422	1.00000	(Q)	
	72 o-Xylene	106	7.904	7.899	(1.073)	2161	0.50000	(Q)	
	73 Styrene	104	7.927	7.918	(1.076)	4404	0.50000	(Q)	
	74 Bromoform	173	8.063	8.055	(0.884)	1519	0.50000	(QM)	NI
	75 Isopropylbenzene	105	8.183	8.183	(1.111)	6703	0.50000	(Q)	
$	76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	145318	50.0000	(Q)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)		REVIEW C
77 n-amyl acetate	70	8.077	8.071	(1.096)	4376	2.00000		(QM)	NI
78 Bromobenzene	77	8.405	8.402	(1.141)	2915	0.50000		(Q)	
79 1,1,2,2-Tetrachloroethane	83	8.430	8.425	(0.924)	2027	0.50000		(QM)	NI
80 trans-1,4-Dichloro-2-butene	53	8.458	8.447	(1.148)	614	0.50000		(QM)	NI
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	743	0.50000		(QM)	NI
82 n-Propylbenzene	91	8.489	8.486	(0.931)	6894	0.50000		(QM)	LT
83 2-Chlorotoluene	91	8.550	8.544	(0.937)	4497	0.50000		(Q)	
84 1,3,5-Trimethylbenzene	105	8.622	8.619	(0.945)	5312	0.50000		(QM)	GT
85 4-Chlorotoluene	126	8.636	8.633	(0.947)	1729	0.50000		(Q)	
86 tert-Butylbenzene	119	8.836	8.834	(0.969)	5203	0.50000		(QM)	GT
87 1,2,4-Trimethylbenzene	105	8.884	8.875	(0.974)	5866	0.50000		(QM)	LT
88 sec-Butylbenzene	105	8.989	8.984	(0.986)	6307	0.50000		(Q)	
89 1,3-Dichlorobenzene	146	9.070	9.065	(0.995)	3199	0.50000		(Q)	
90 p-Isopropyltoluene	119	9.095	9.090	(0.997)	5225	0.50000		(Q)	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	165963	50.0000		(Q)	
92 1,4-Dichlorobenzene	146	9.137	9.134	(1.002)	4138	0.50000		(Q)	
93 n-Butylbenzene	91	9.368	9.357	(1.027)	5068	0.50000		(Q)	
94 1,2-Dichlorobenzene	146	9.373	9.365	(1.028)	3423	0.50000		(Q)	
95 1,2-Dibromo-3-chloropropane	155	9.880	9.871	(1.083)	360	0.50000		(QM)	NI
96 1,2,4-Trichlorobenzene	180	10.386	10.372	(1.139)	1944	0.50000		(QM)	NI
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	674	0.50000		(QM)	NI
98 Naphthalene	128	10.545	10.534	(1.156)	6193	0.50000		(QM)	NI
99 1,2,3-Trichlorobenzene	180	10.673	10.664	(1.170)	1737	0.50000		(QM)	NI
100 2,methyl-naphthalene	142	11.237	11.226	(1.232)	3478	0.50000		(QM)	WP
101 1-Methylnaphthalene	142	11.360	11.346	(1.246)	3401	0.50000		(Q)	

QC Flag Legend

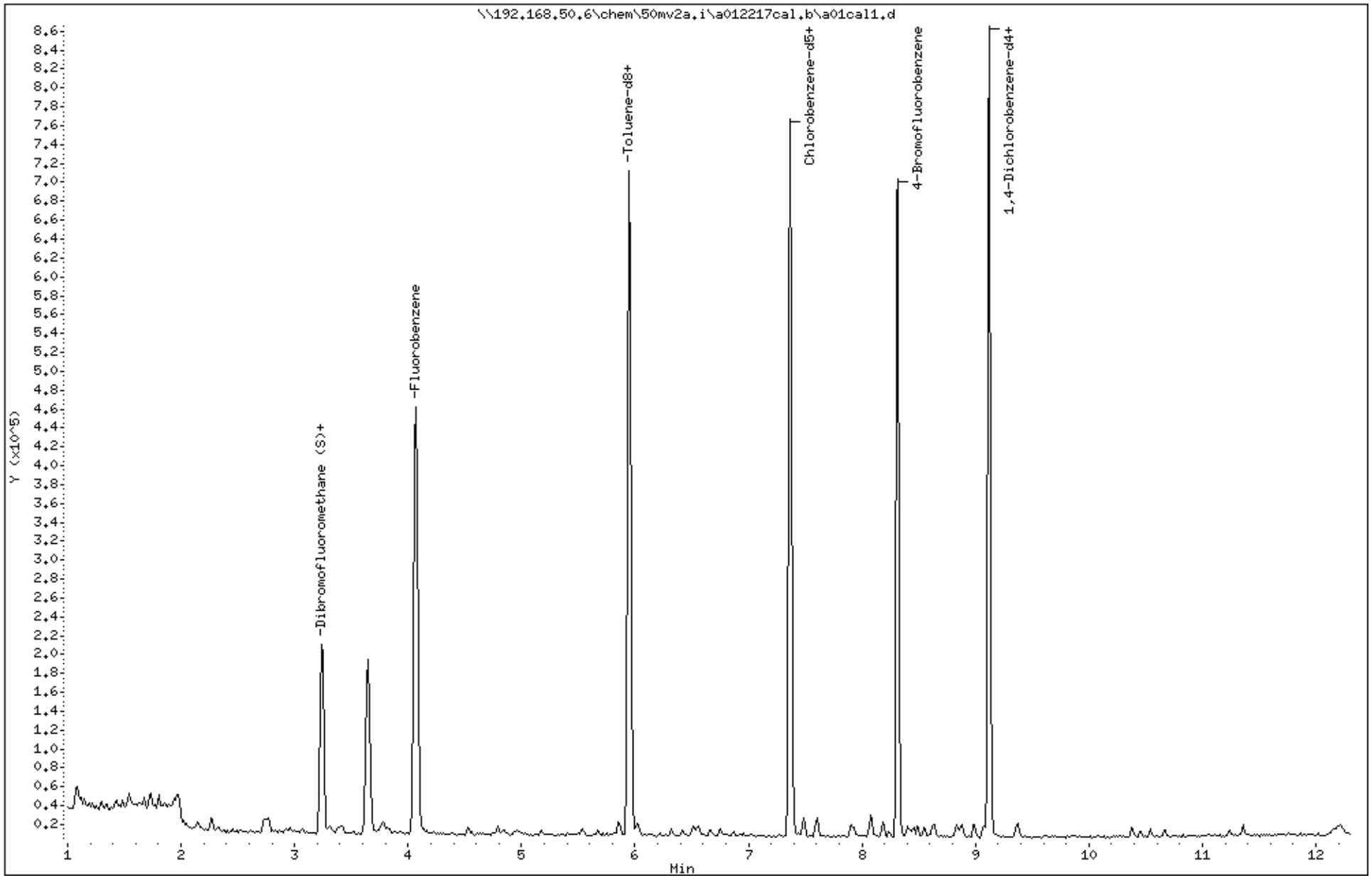
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
:
WP: Indicates that the wrong peak was chosen by the data system.

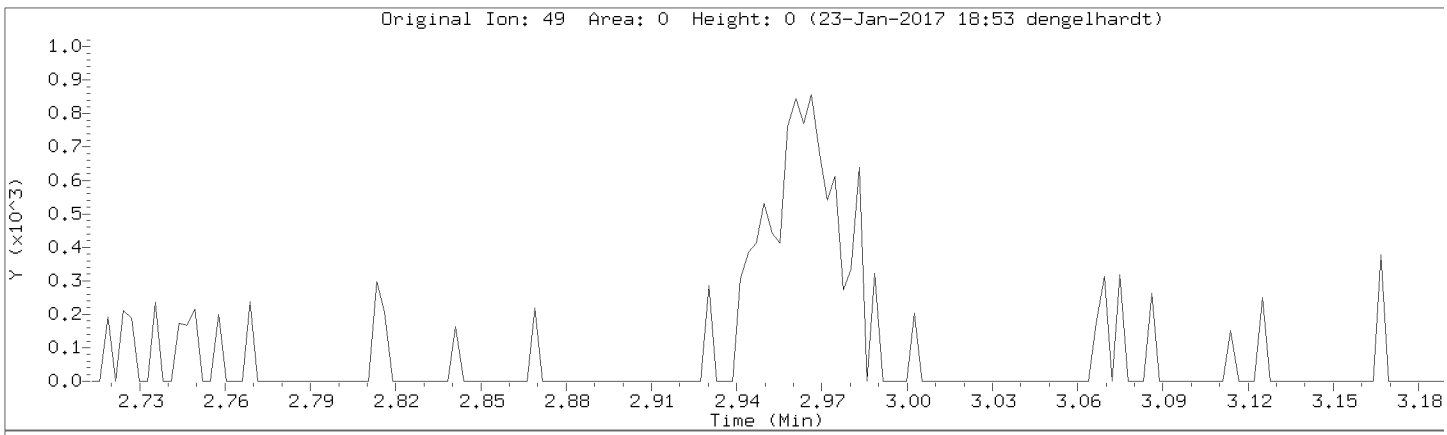
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a01cal1.d
Date : 22-JAN-2017 21:54
Client ID: 8260-CAL1,140426:0
Sample Info: 8260-CAL1,140426:0
Purge Volume: 5.0
Column phase: DB-624

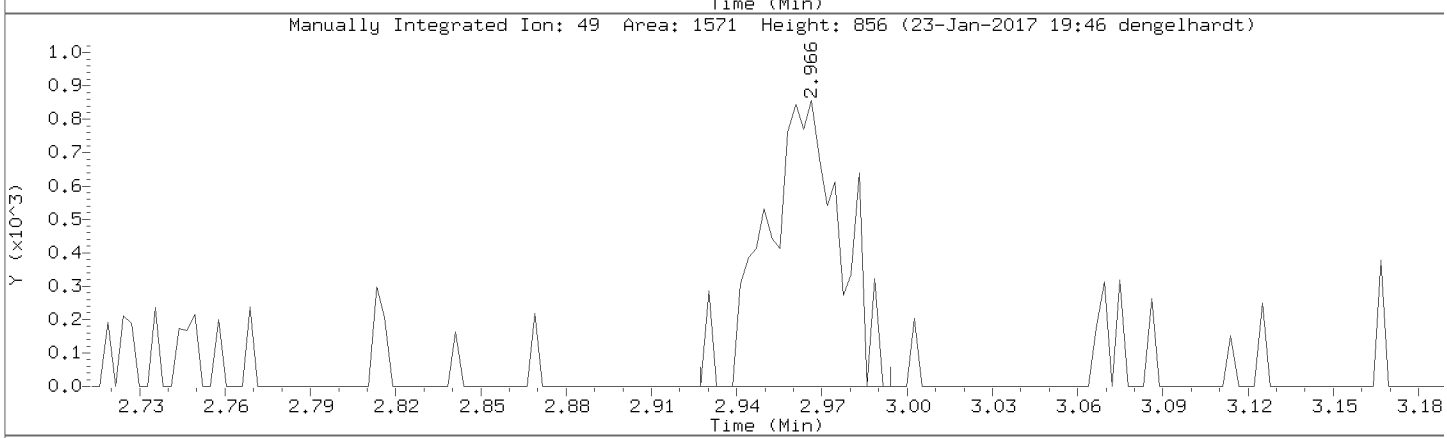
Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18

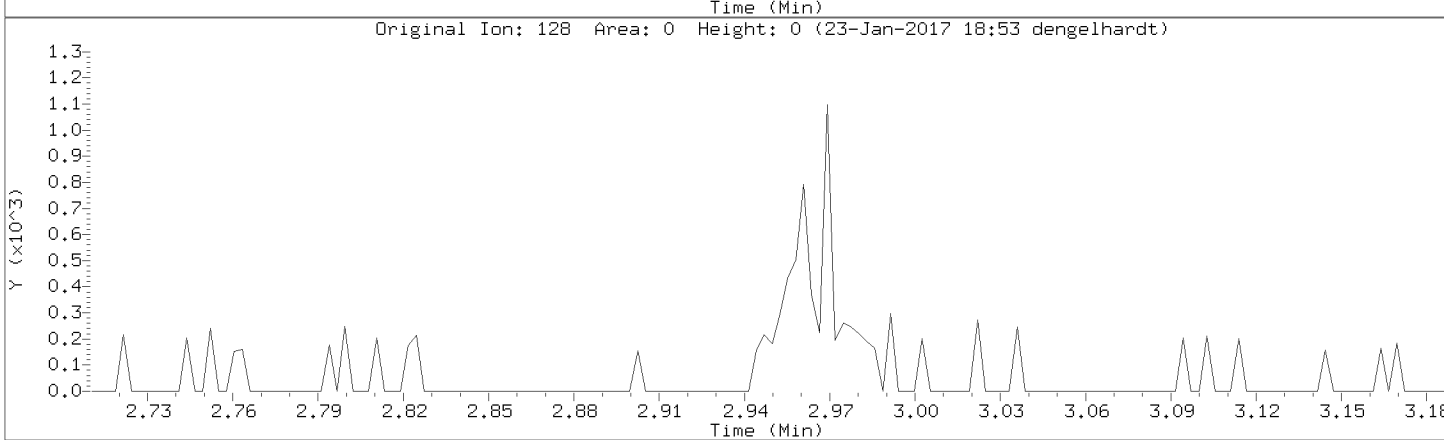


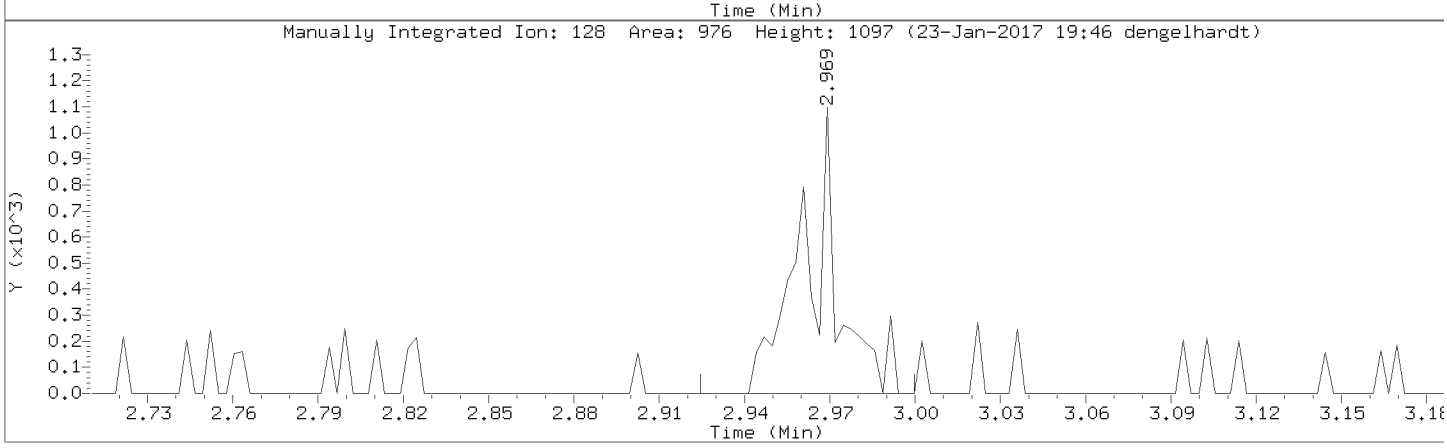
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromochloromethane Review Code: NI
CAS Number: 74-97-5









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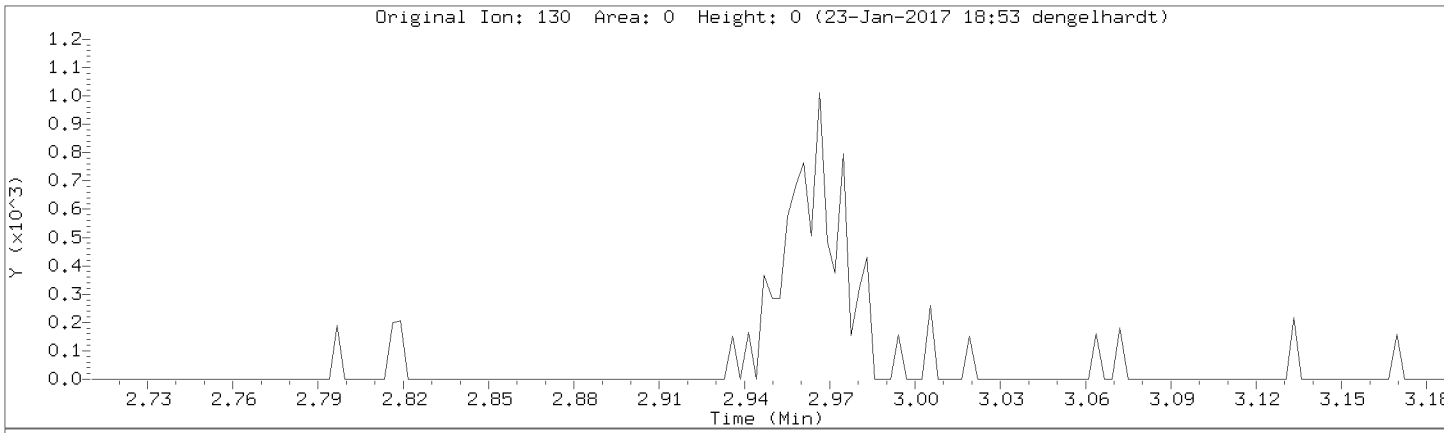
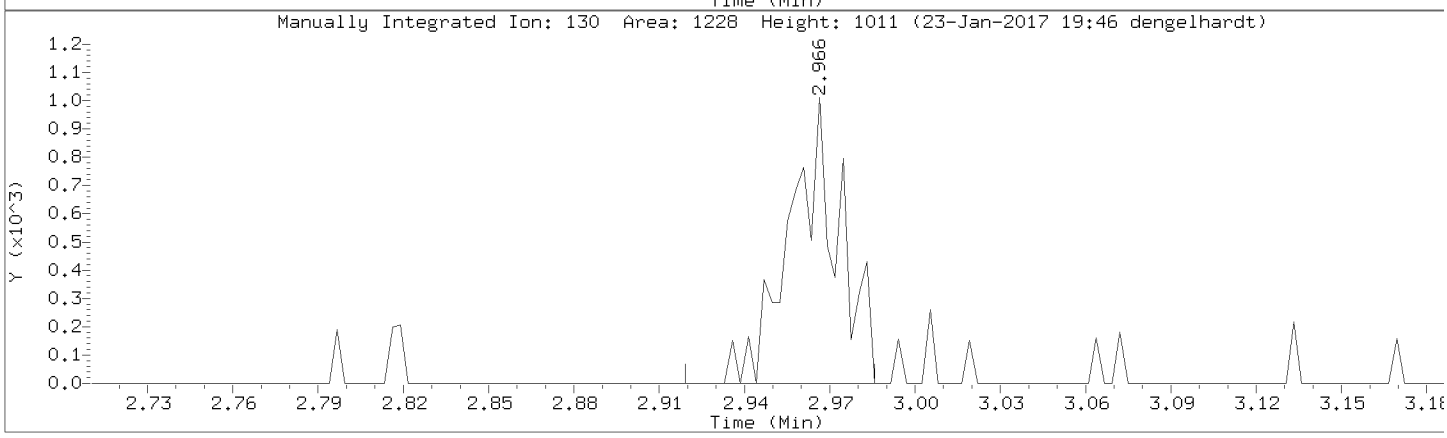
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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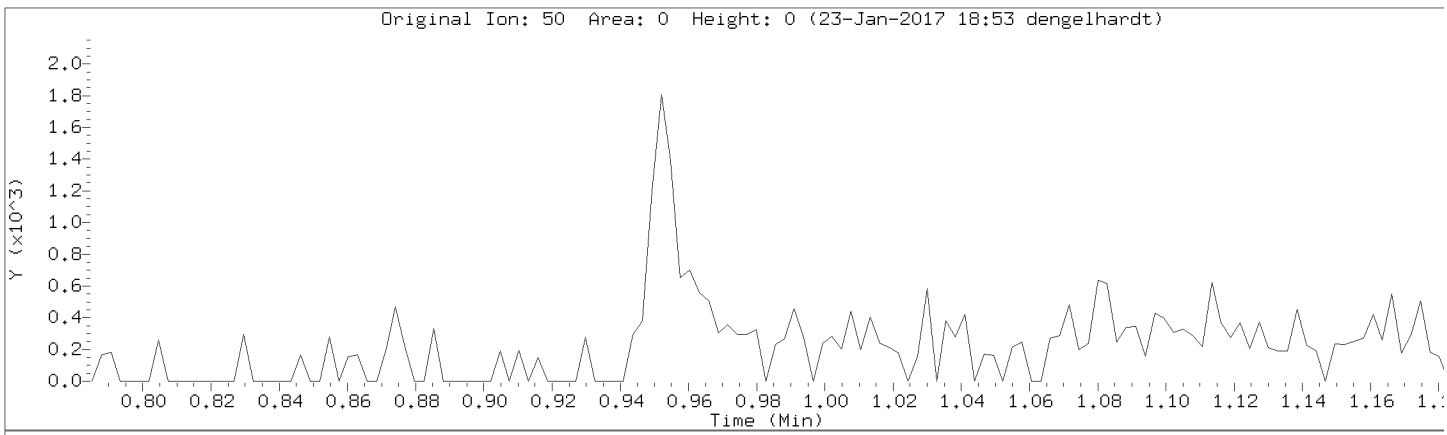
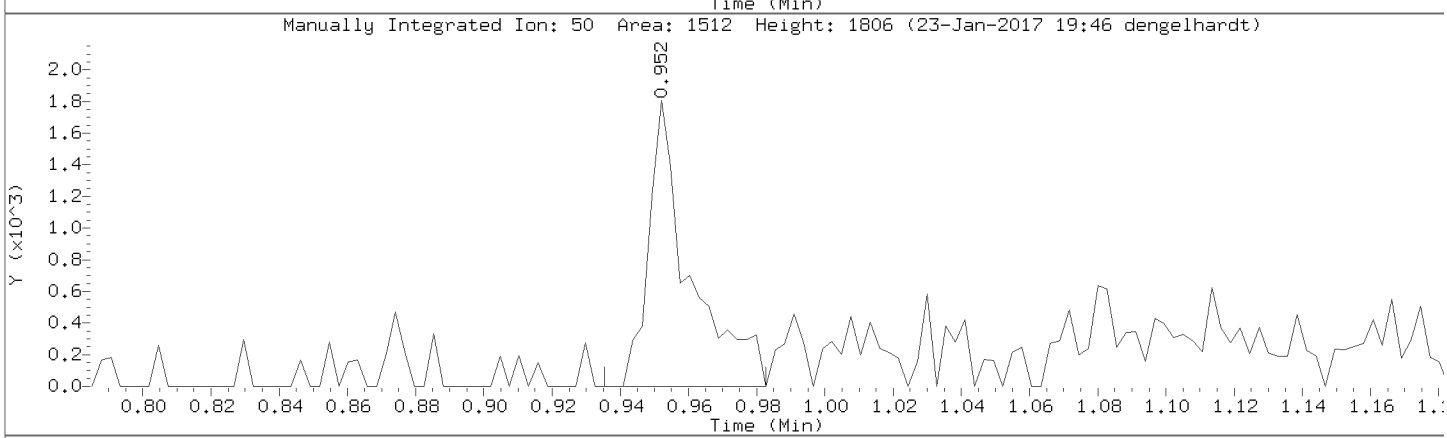
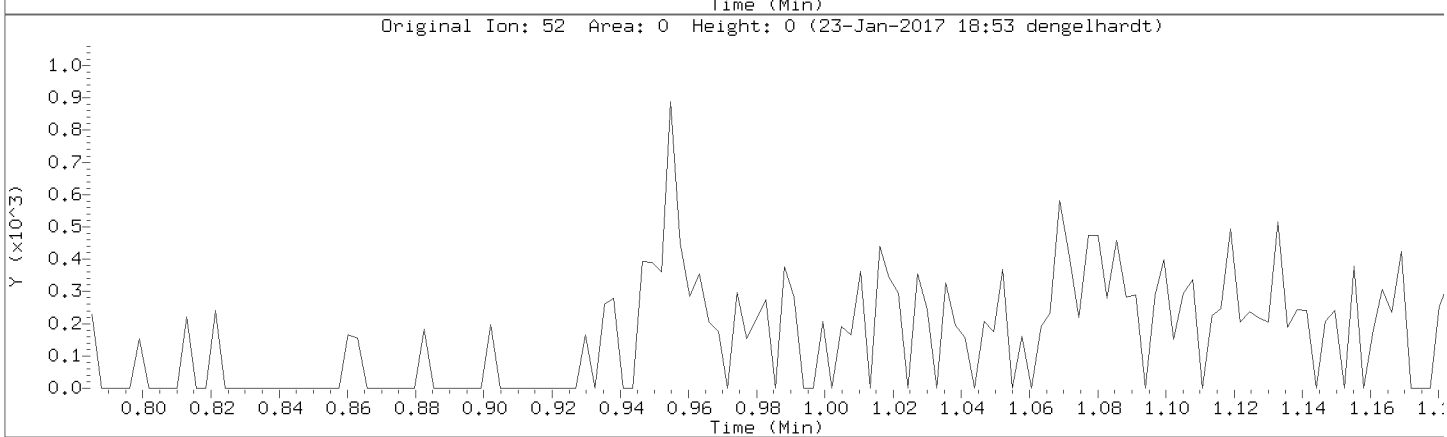
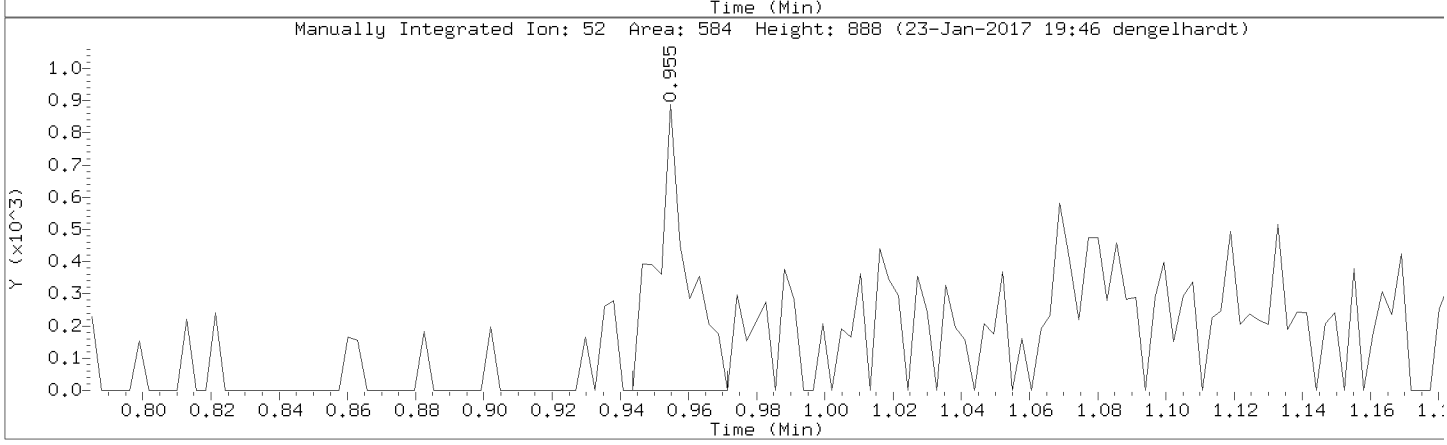
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloromethane Review Code: NI
CAS Number: 74-87-3









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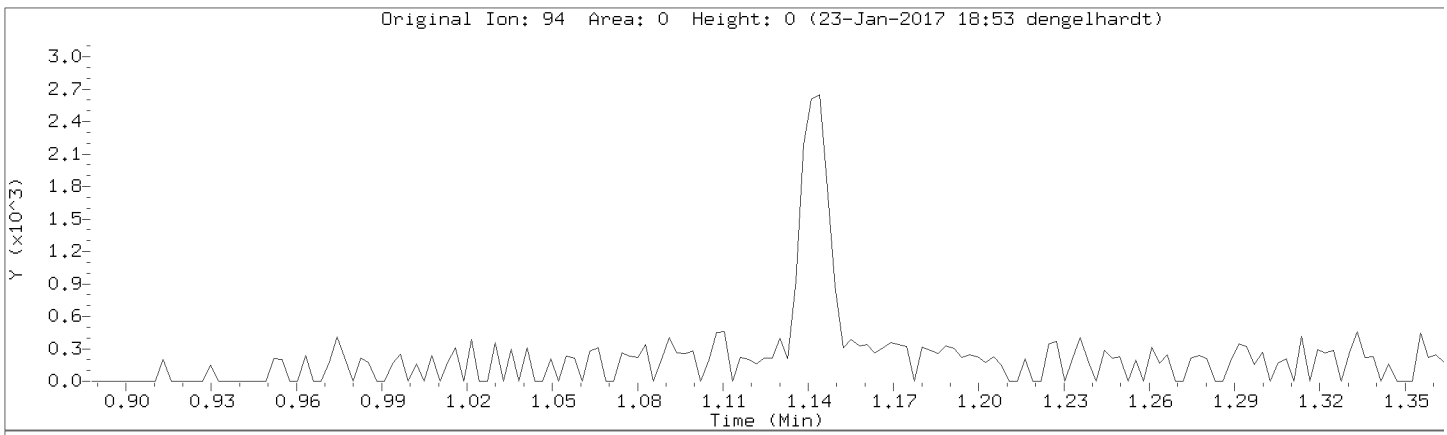
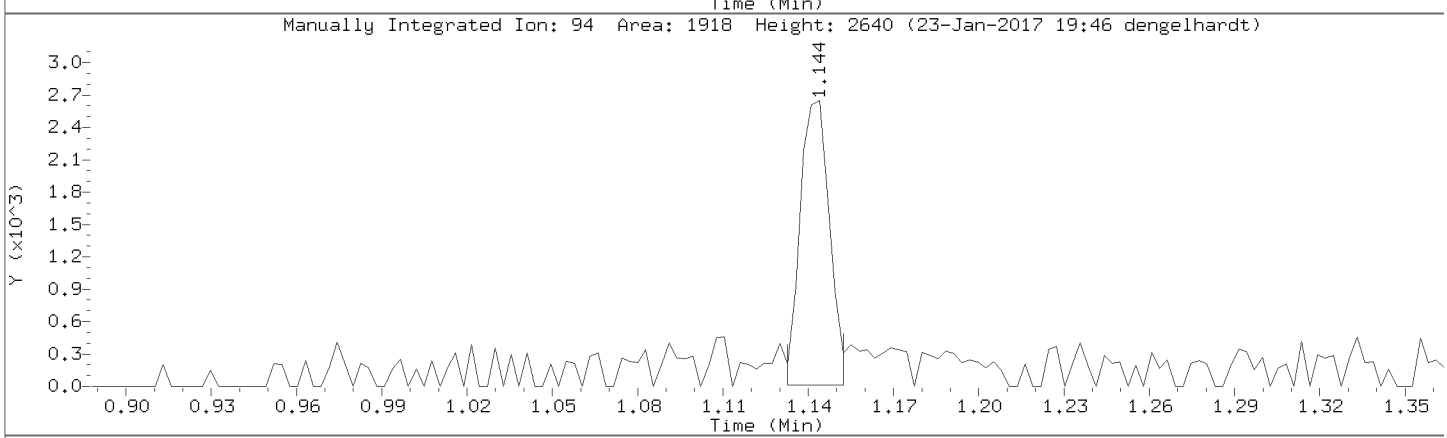
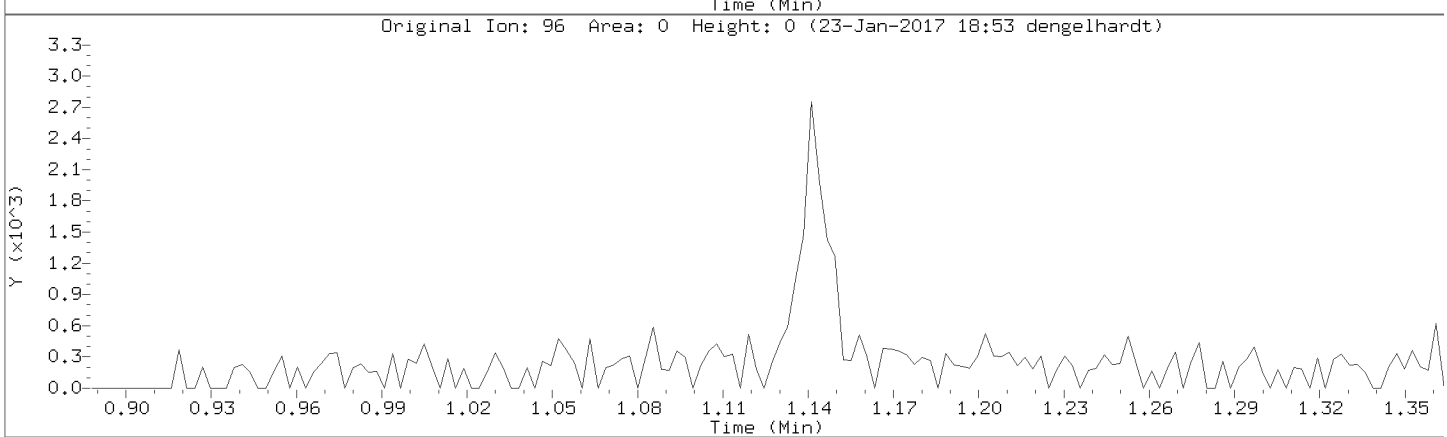
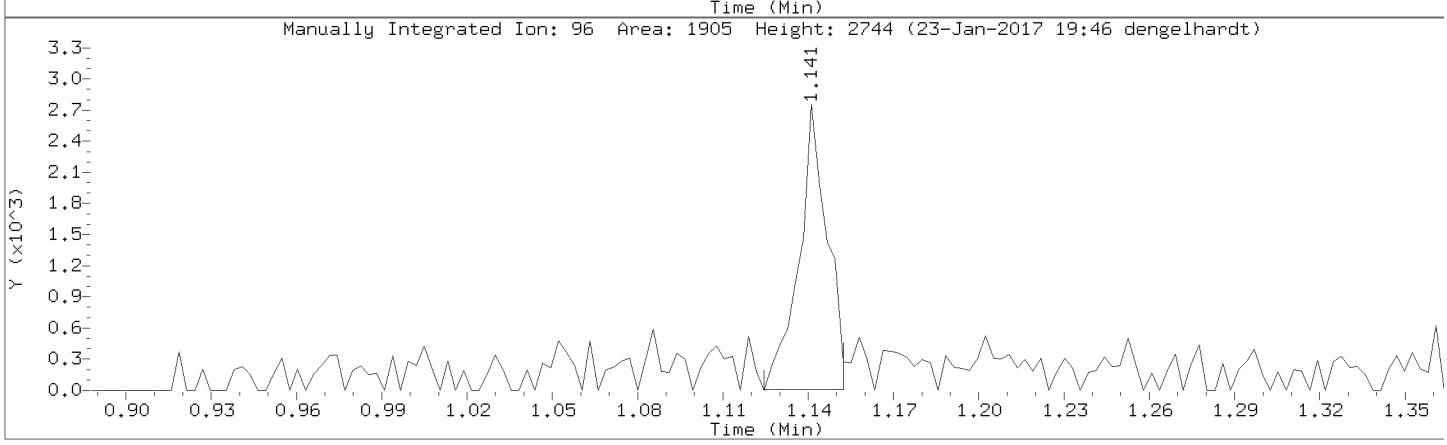
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromomethane Review Code: NI
CAS Number: 74-83-9









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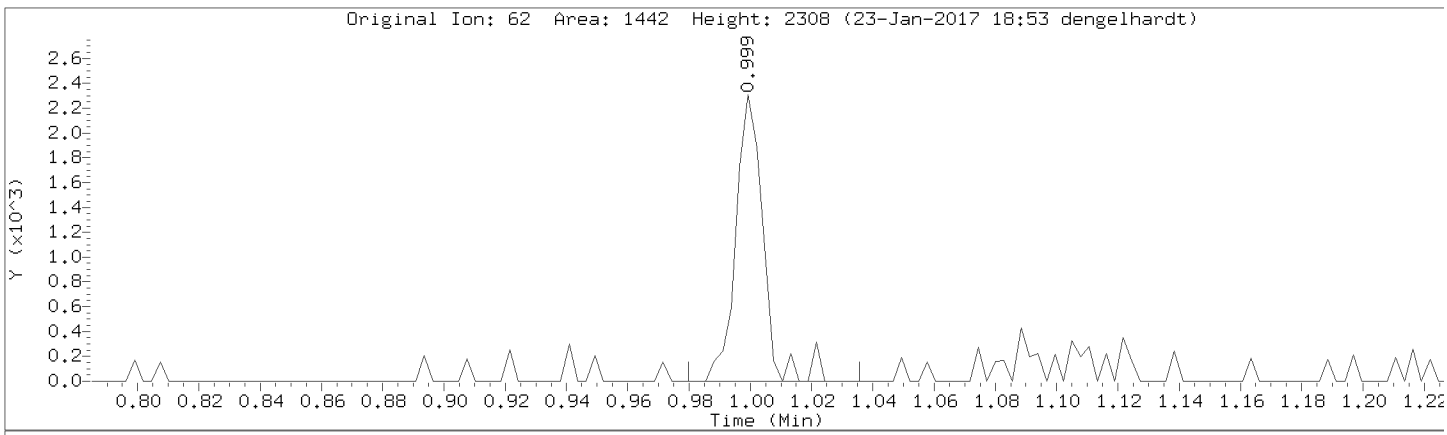
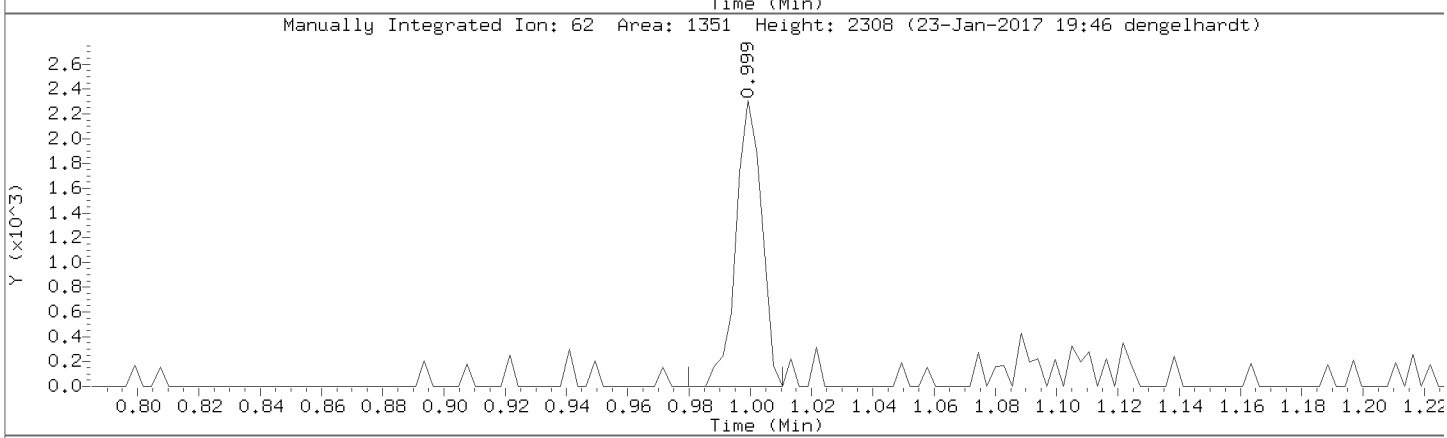
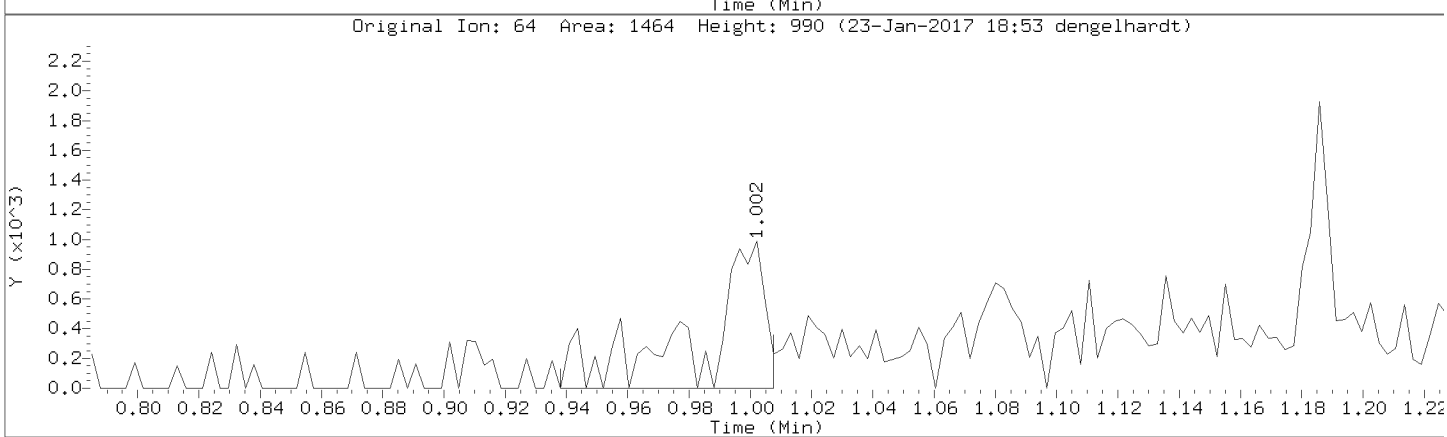
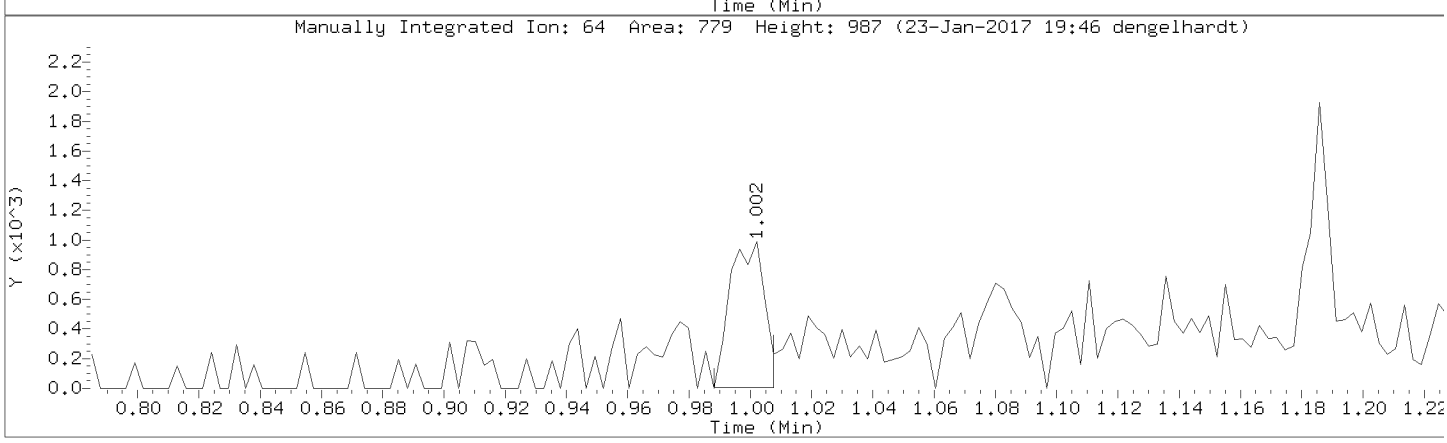
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Vinyl Chloride Review Code: LT
CAS Number: 75-01-4









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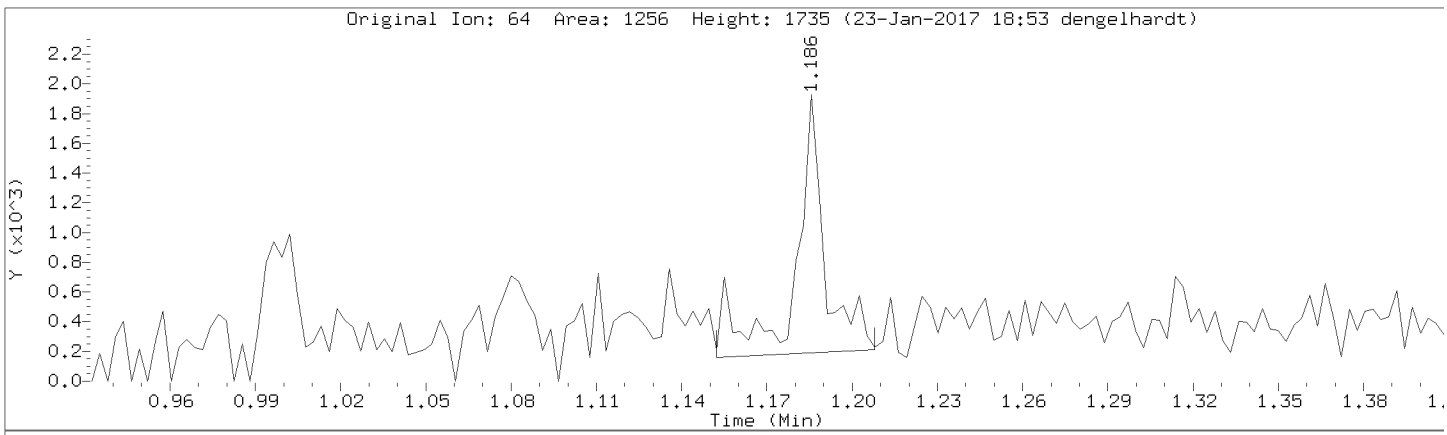
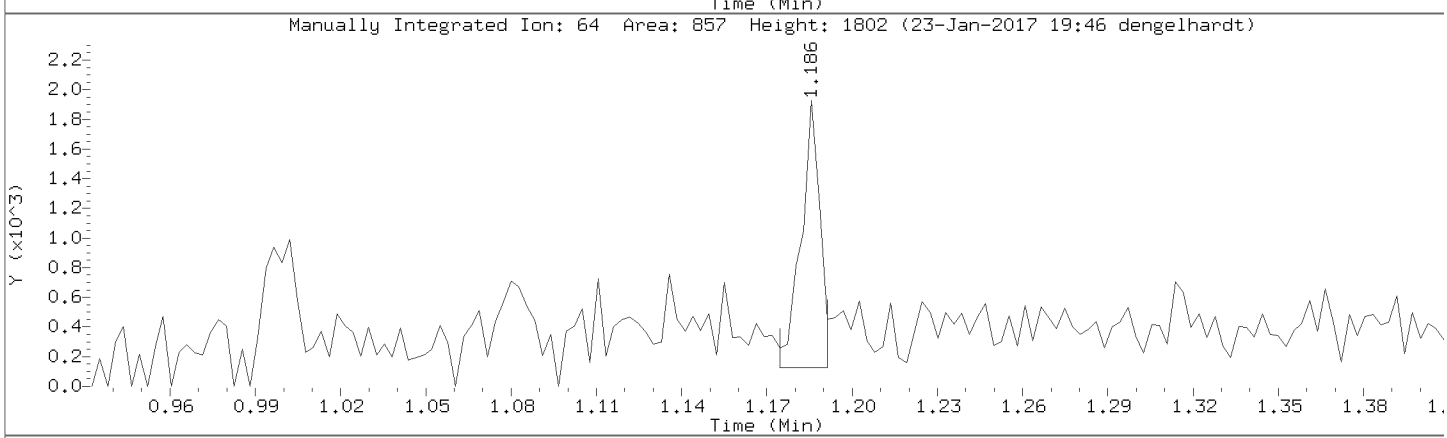
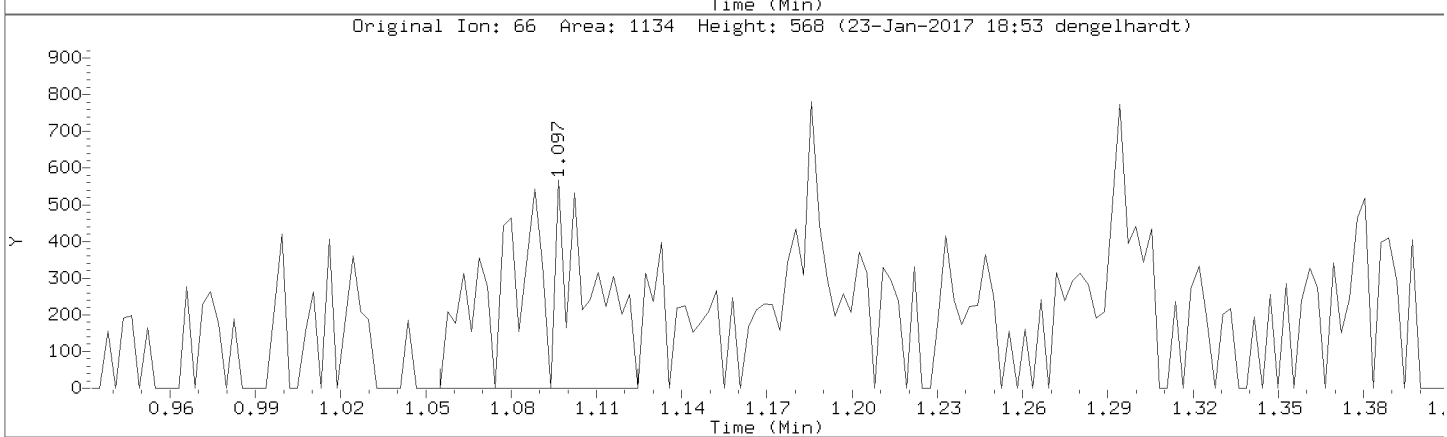
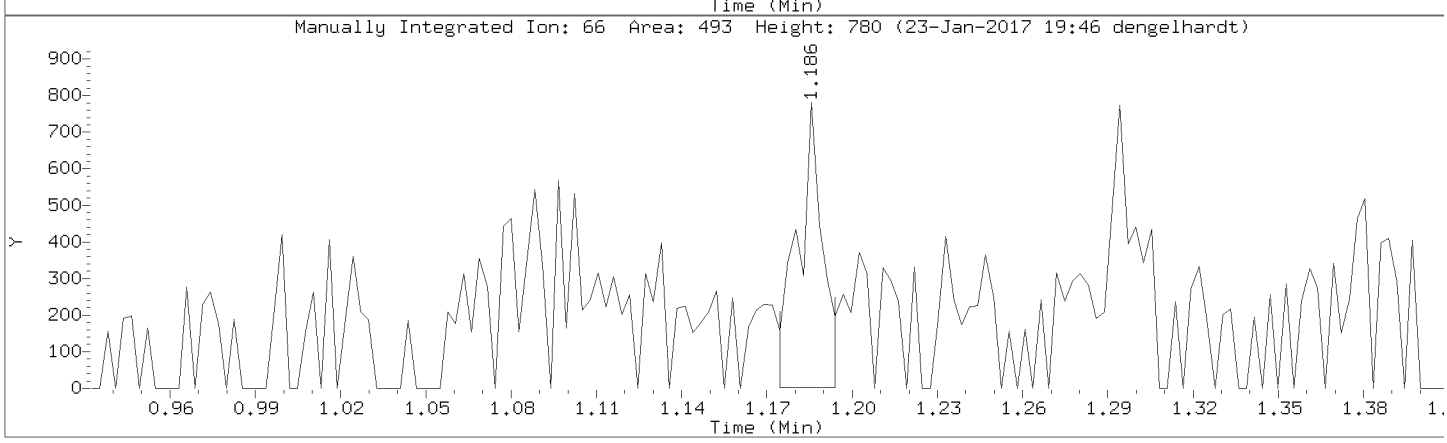
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloroethane Review Code: NI
CAS Number: 75-00-3









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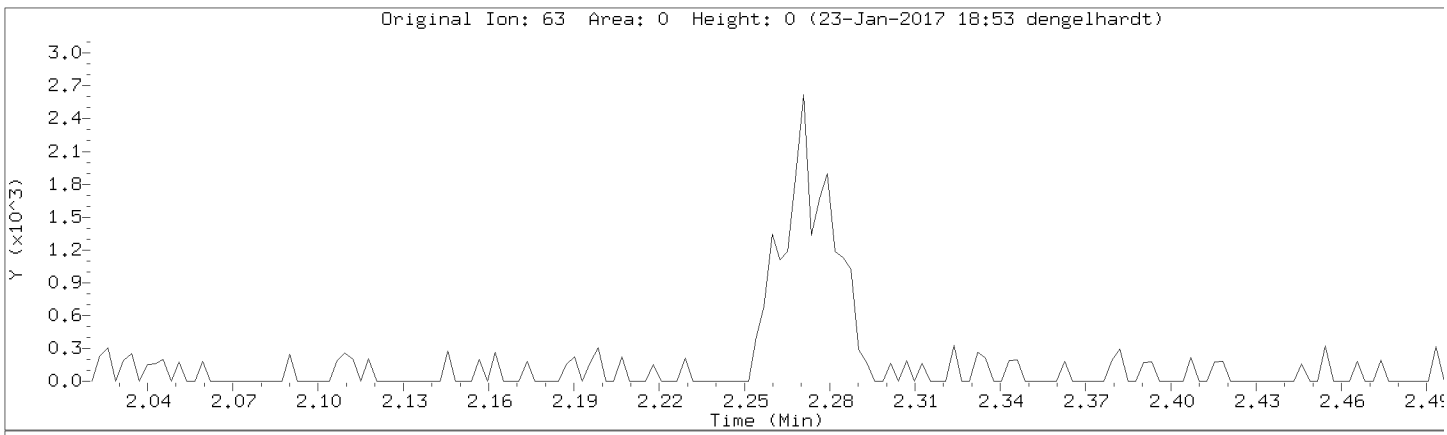
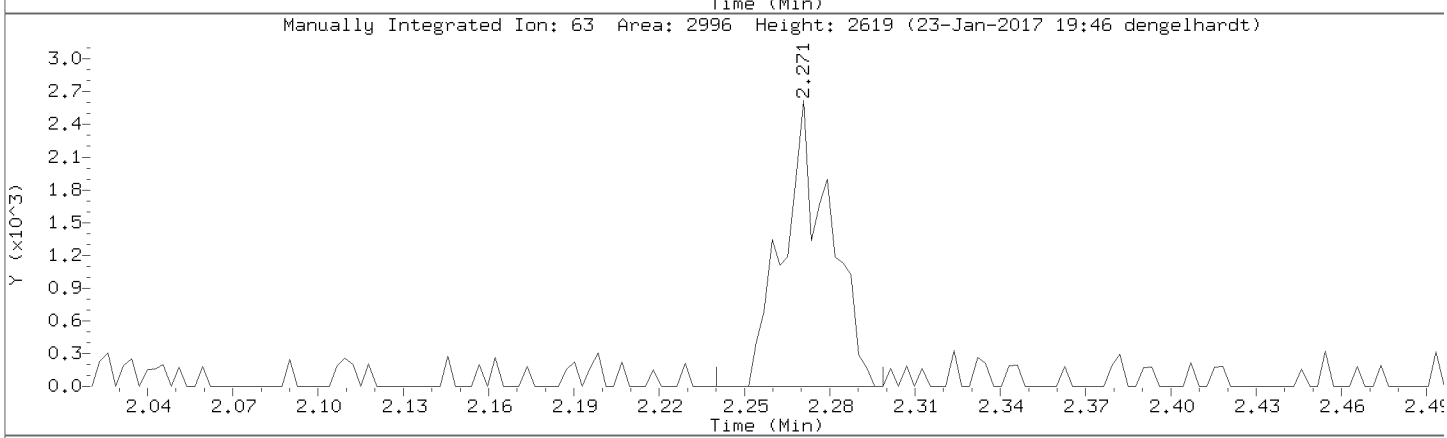
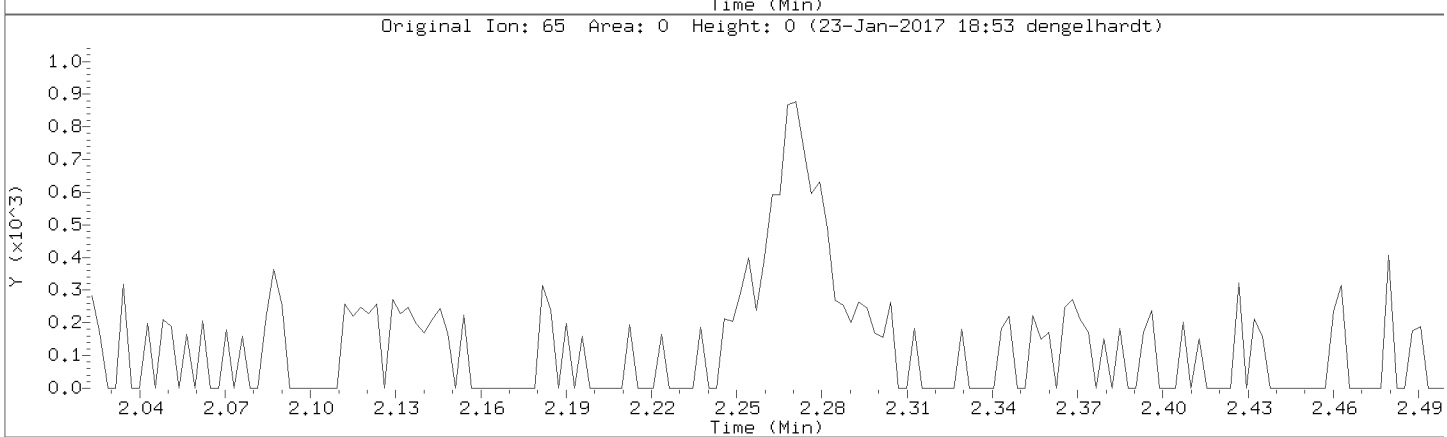
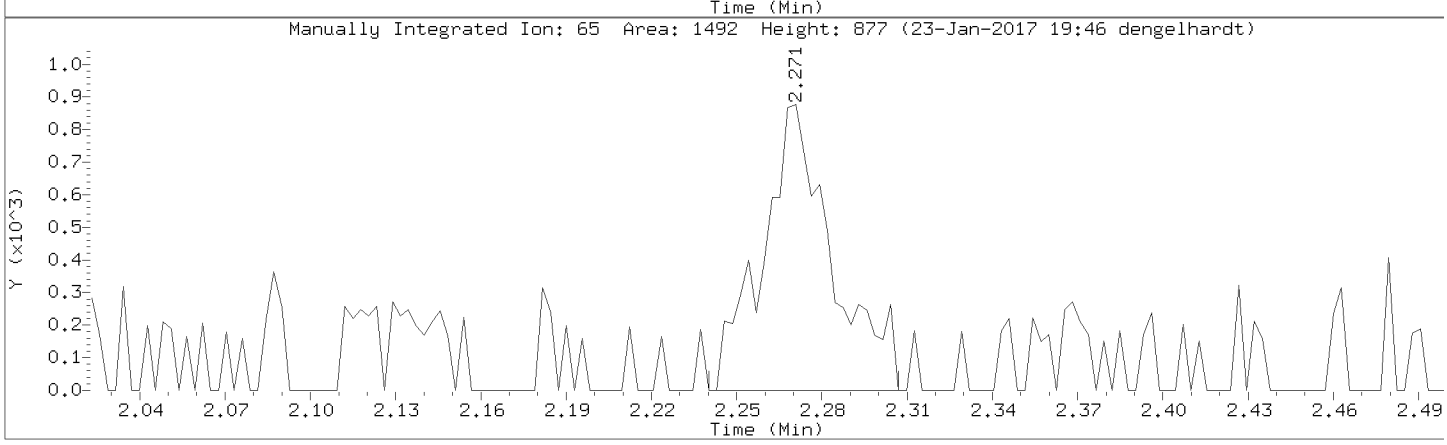
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3

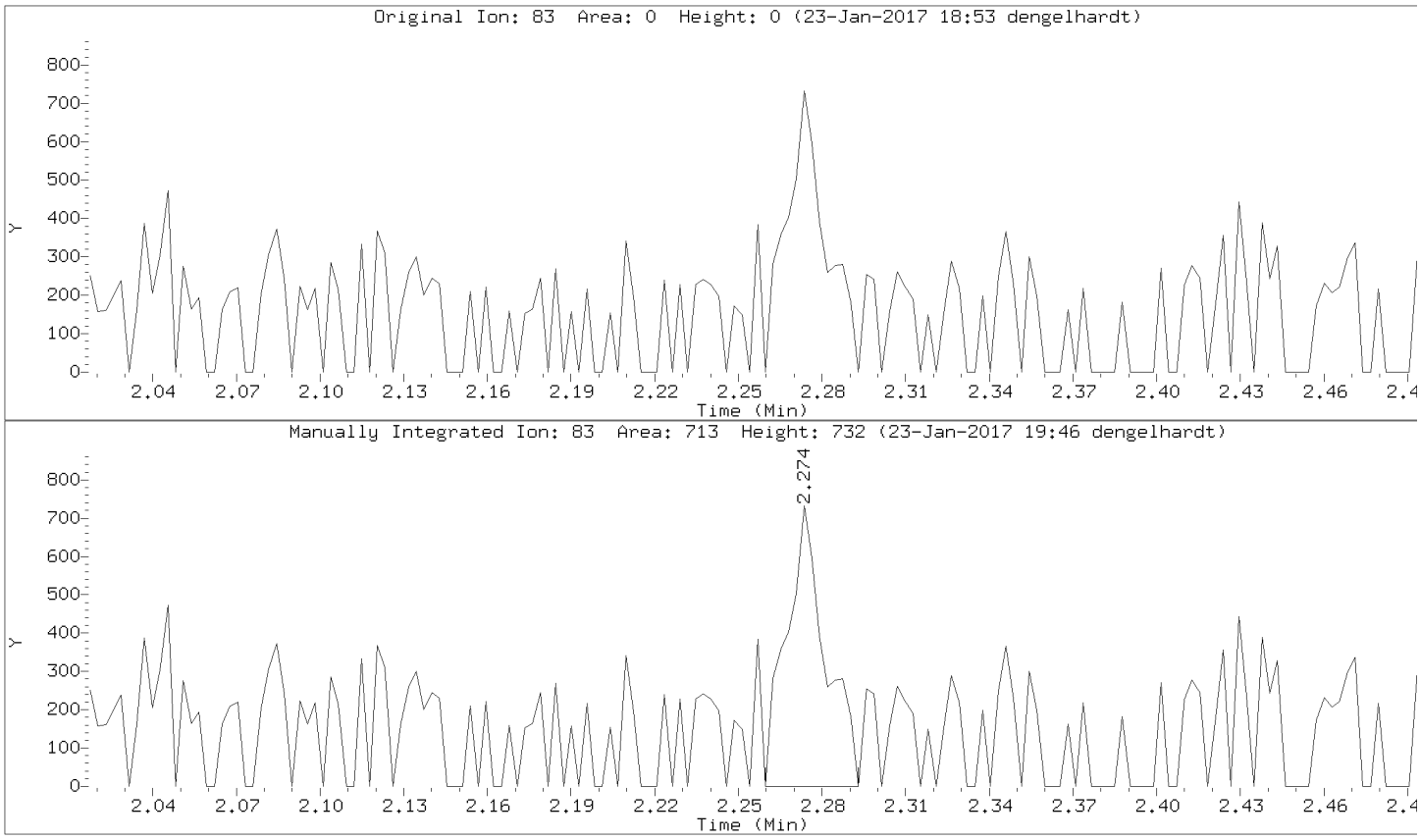






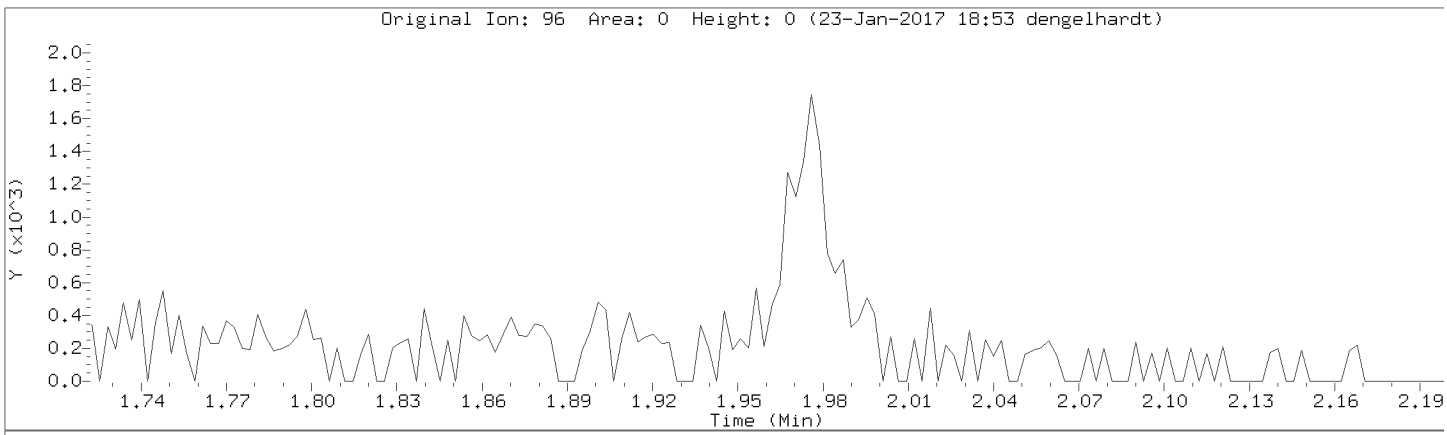


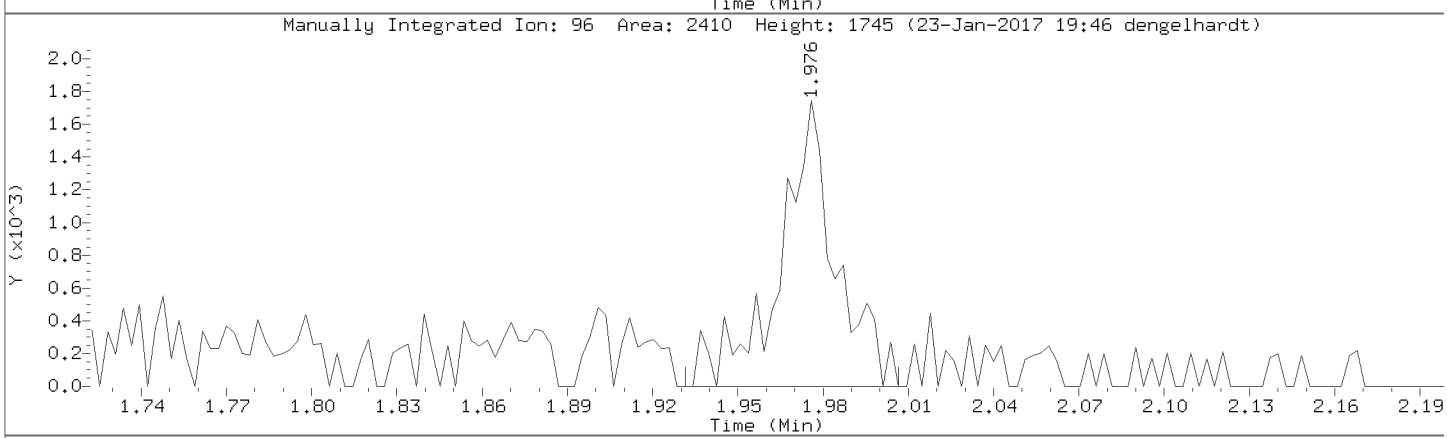
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

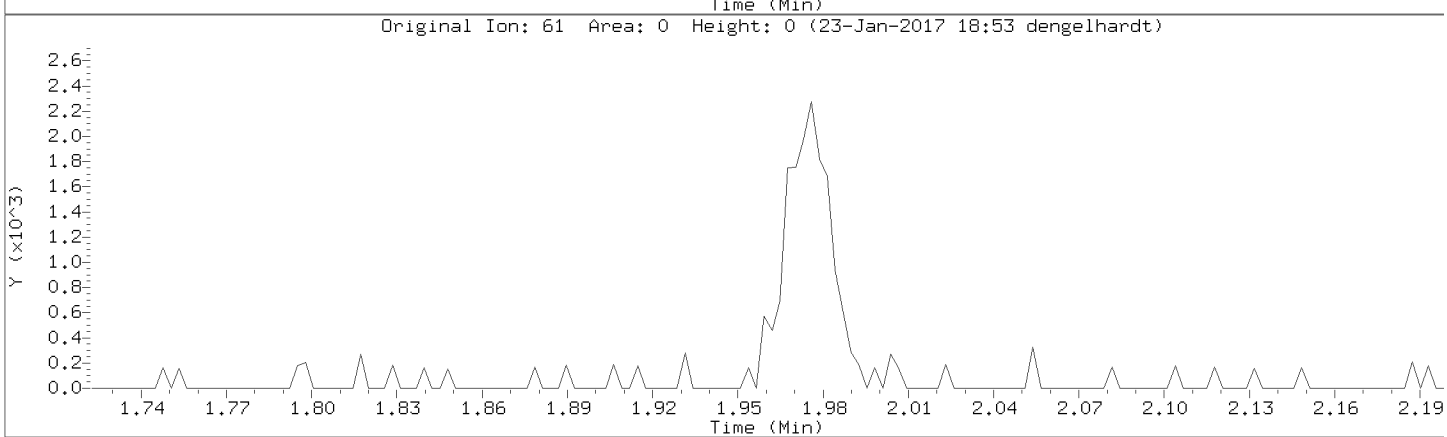


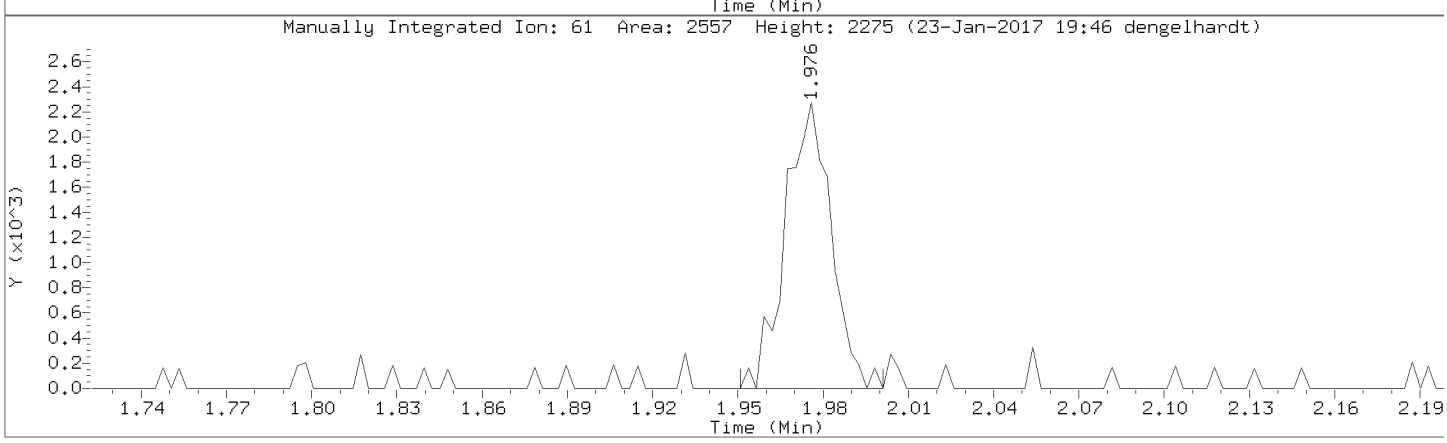
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dichloroethene (trans) Review Code: NI
CAS Number: 156-60-5









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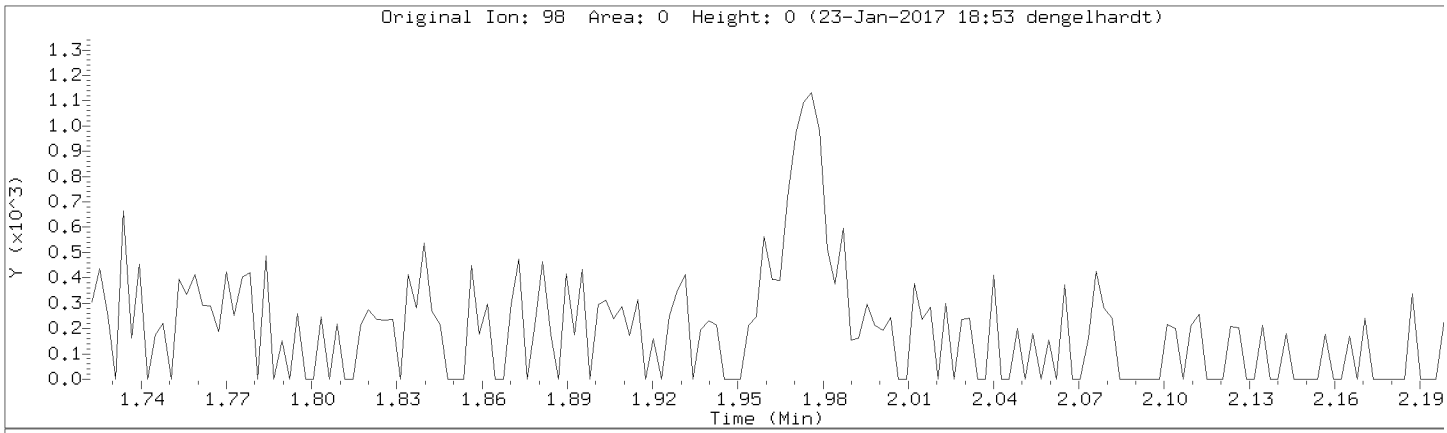
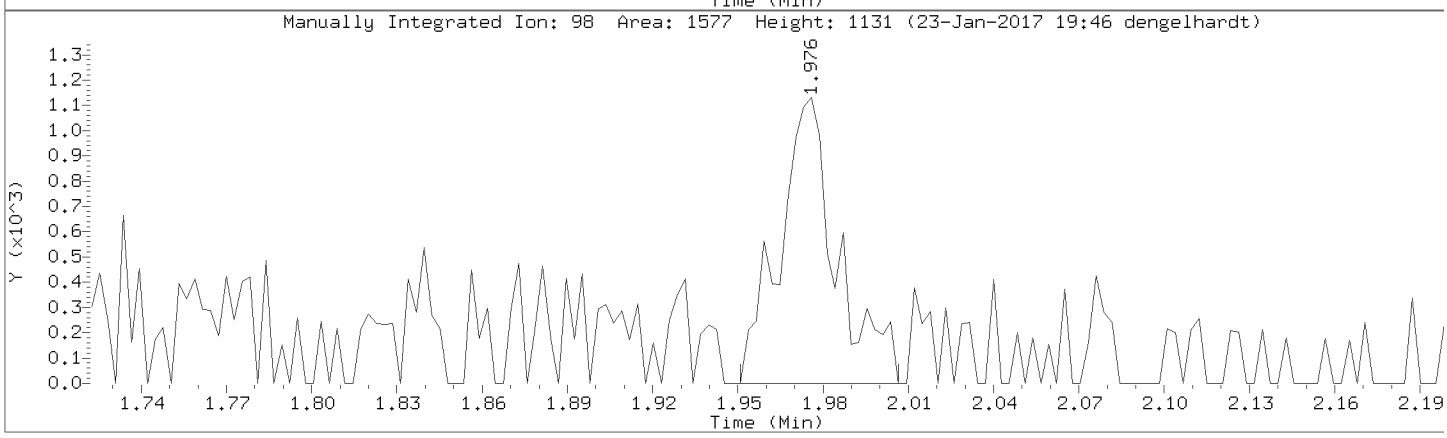
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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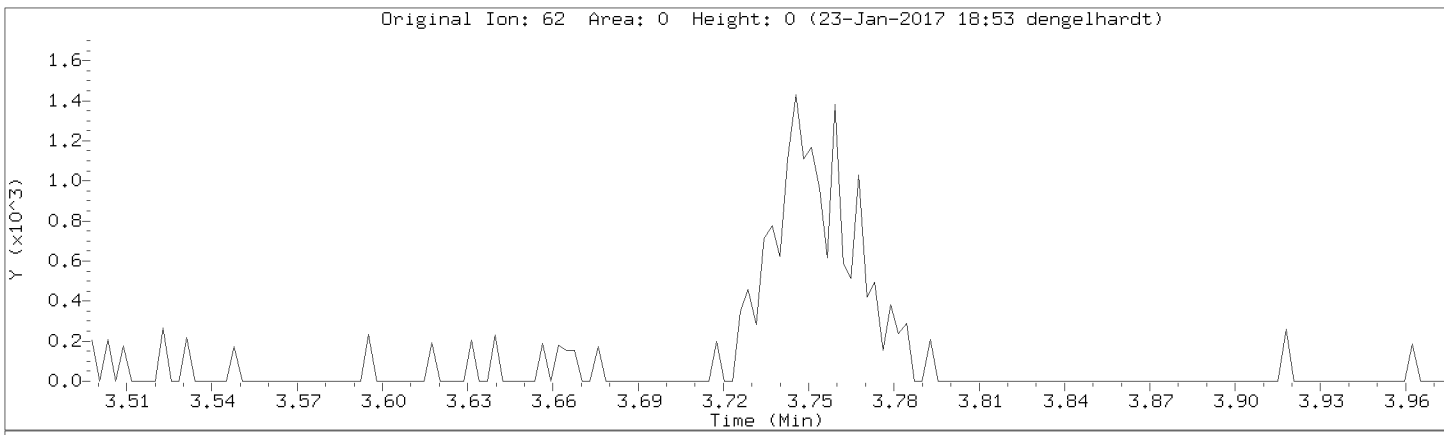
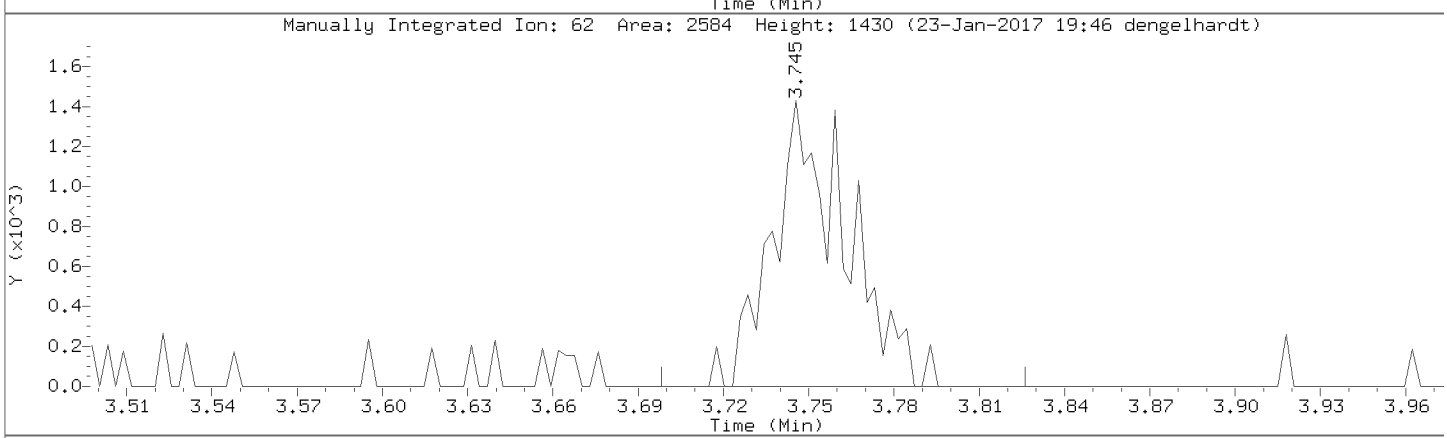
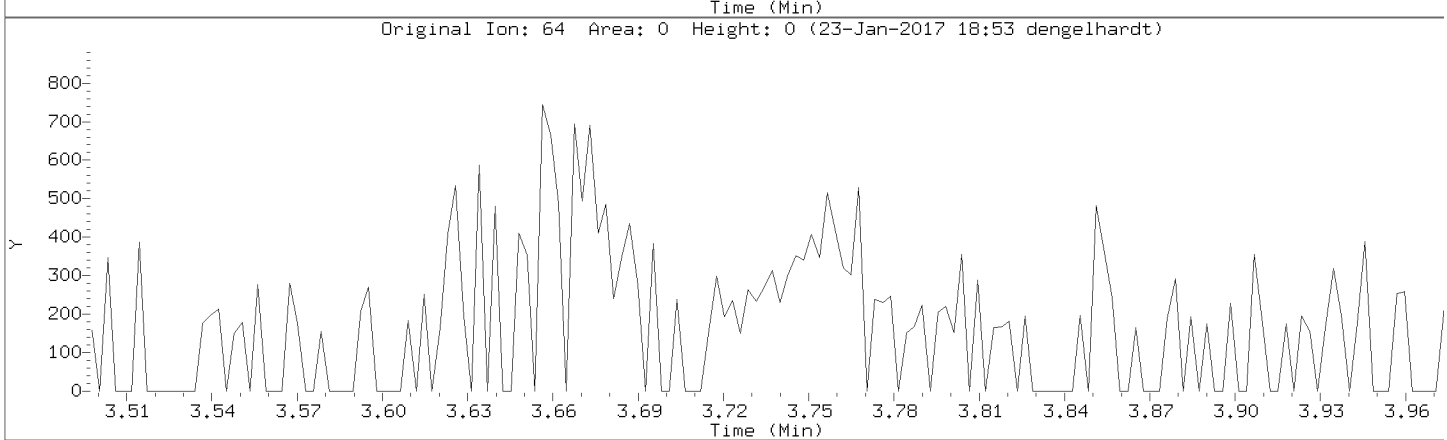
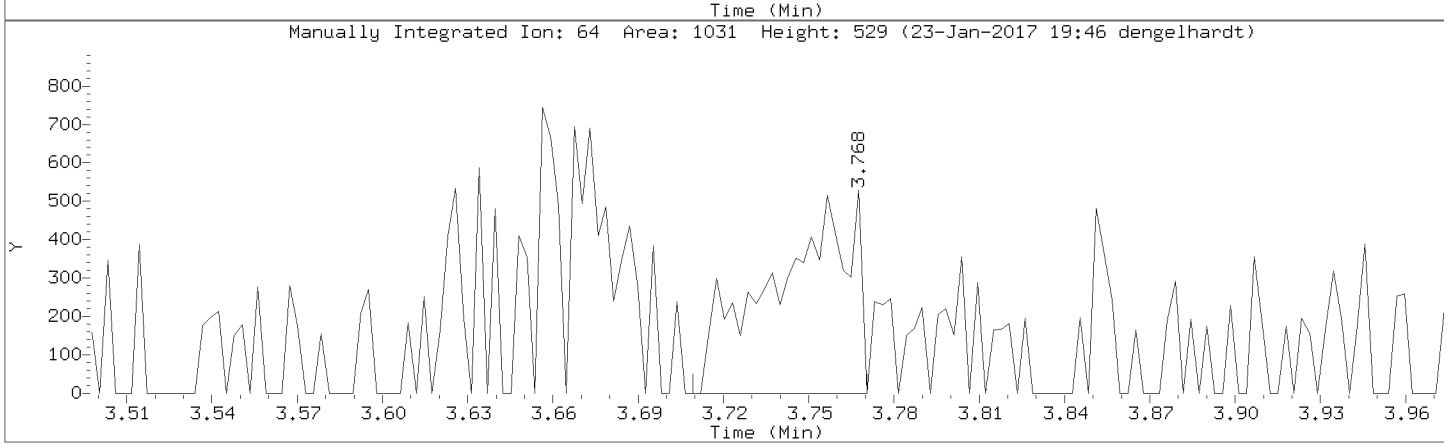
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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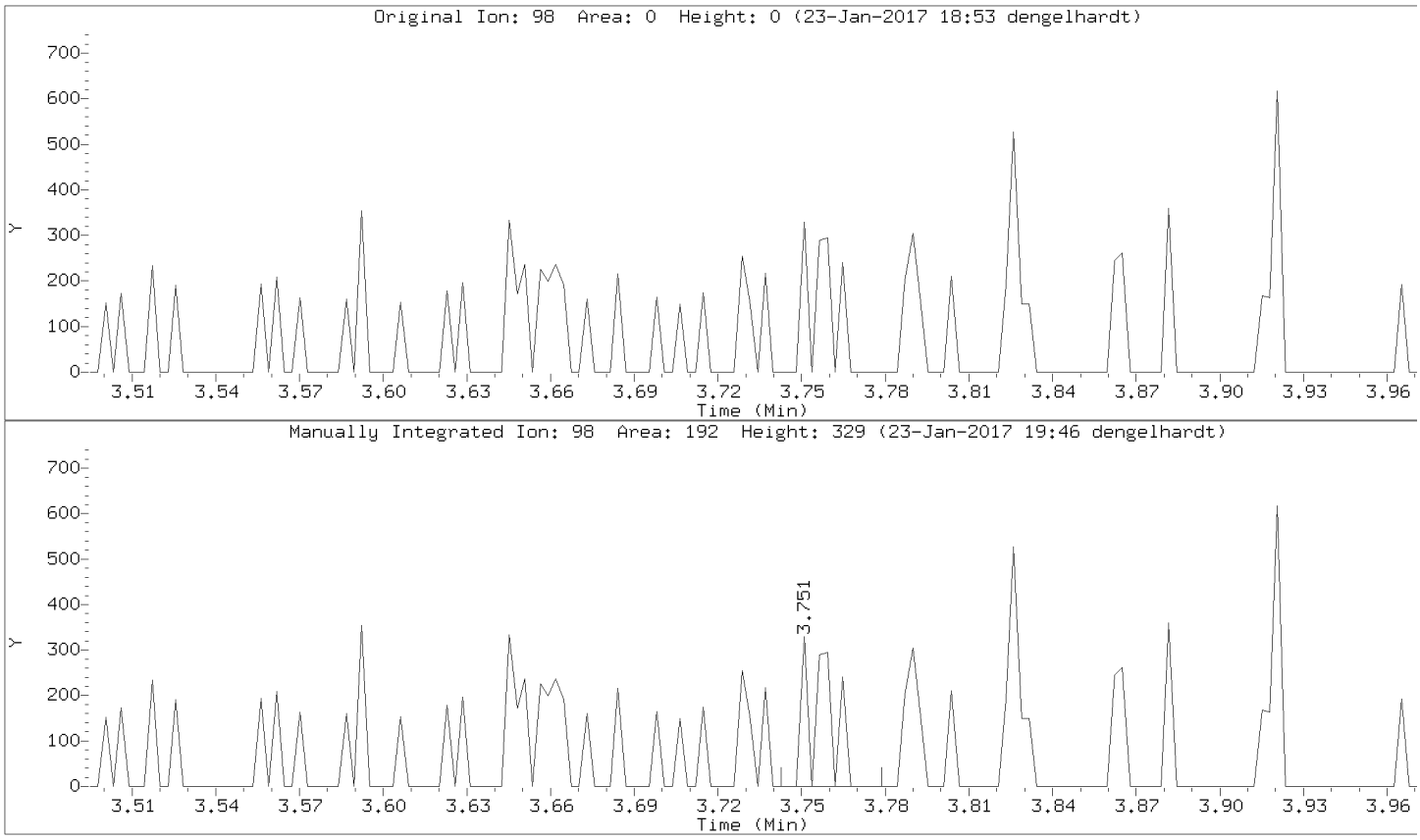
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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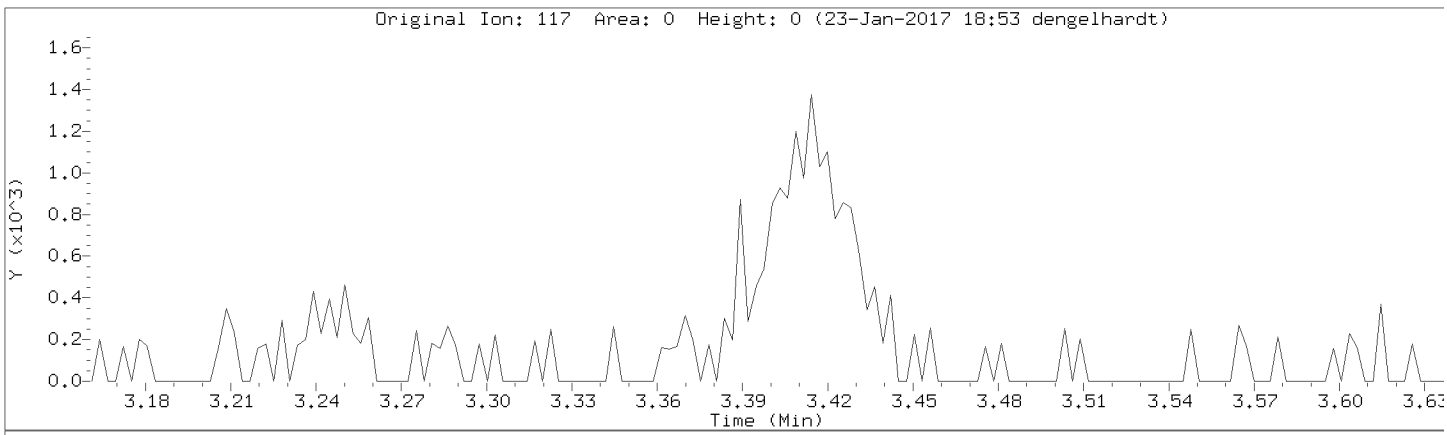
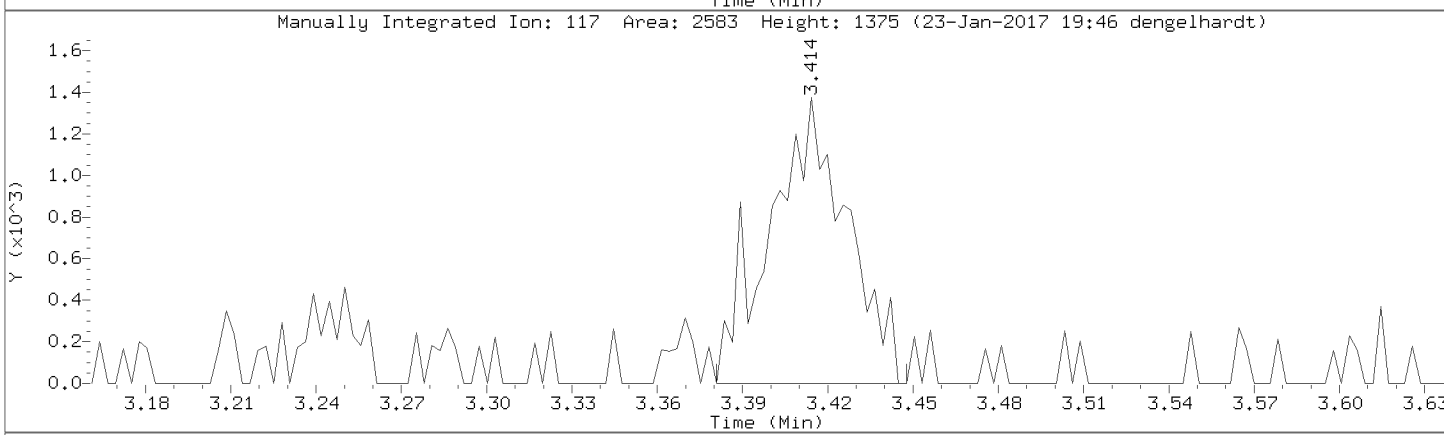
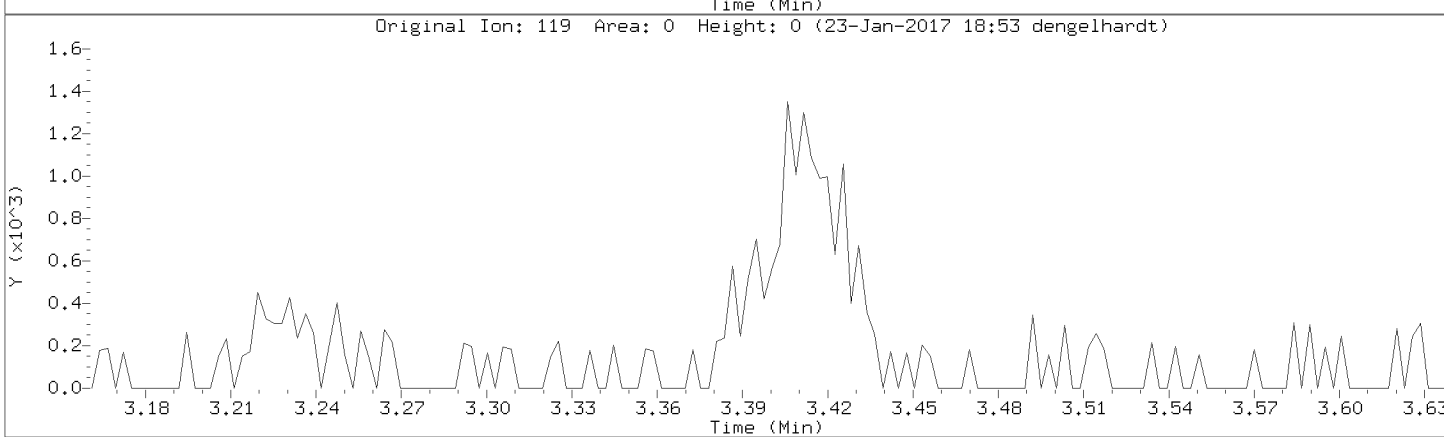
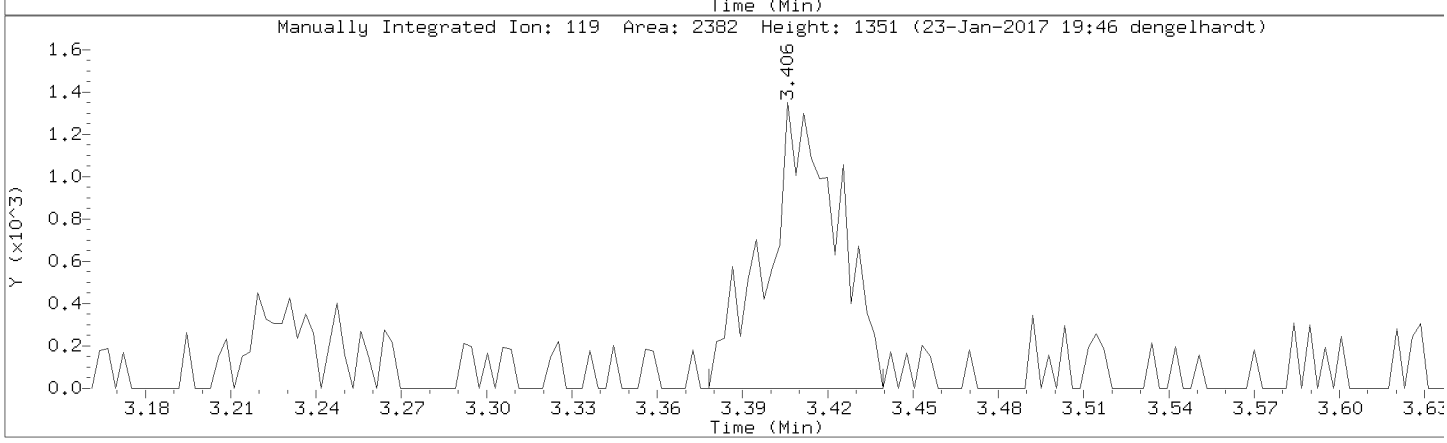
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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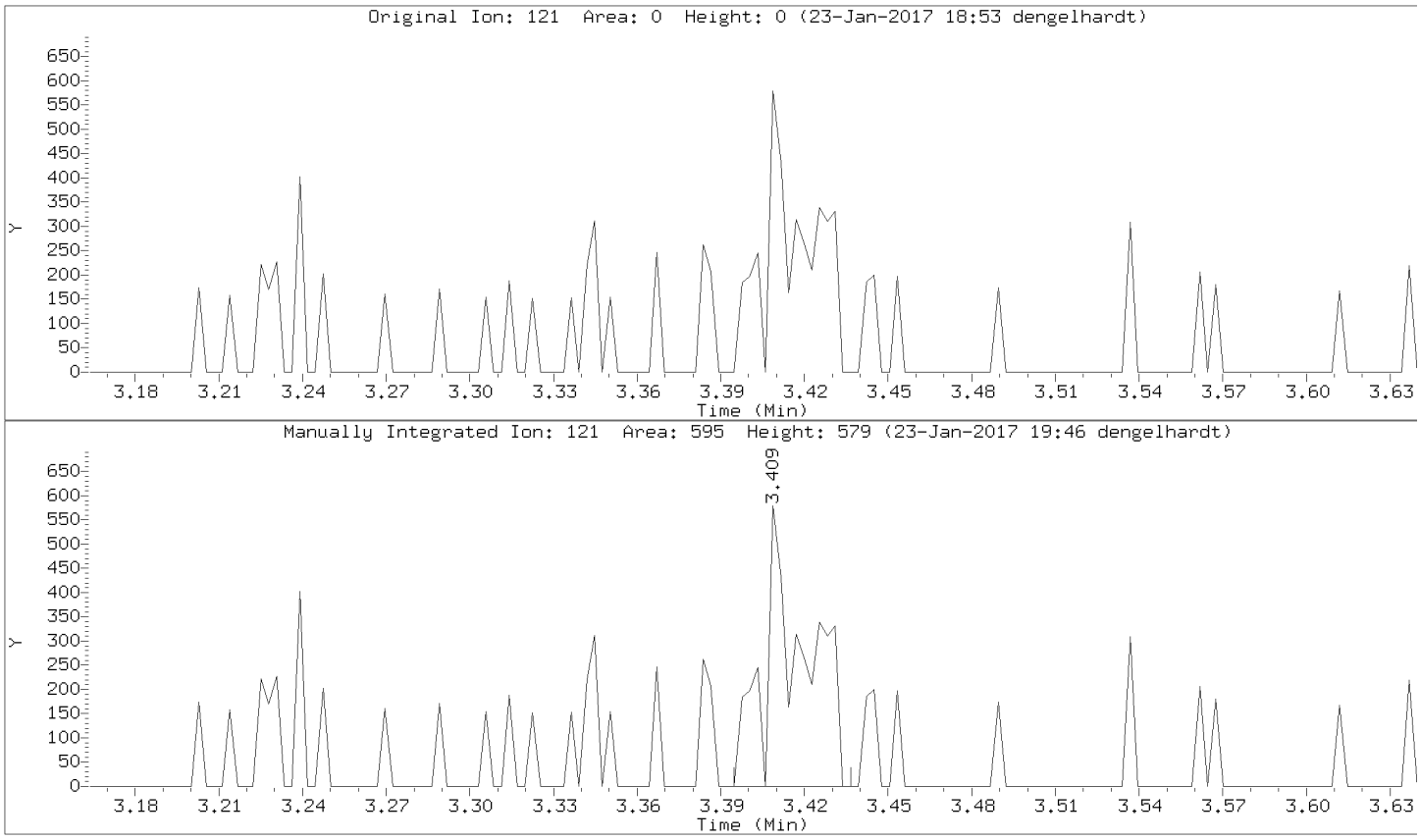
Lab Sample ID: 8260-CAL1,140426:0



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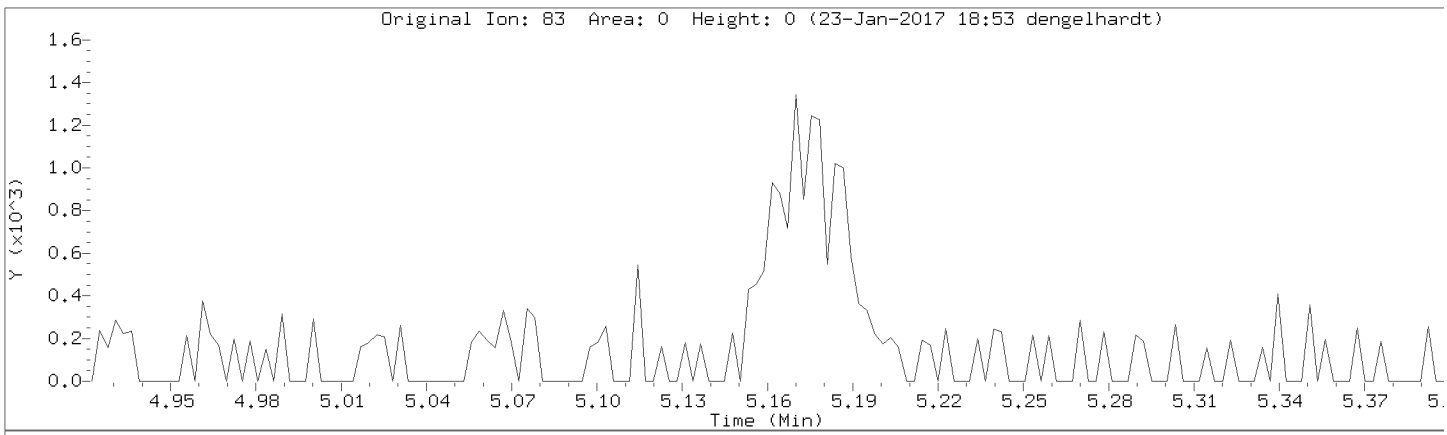
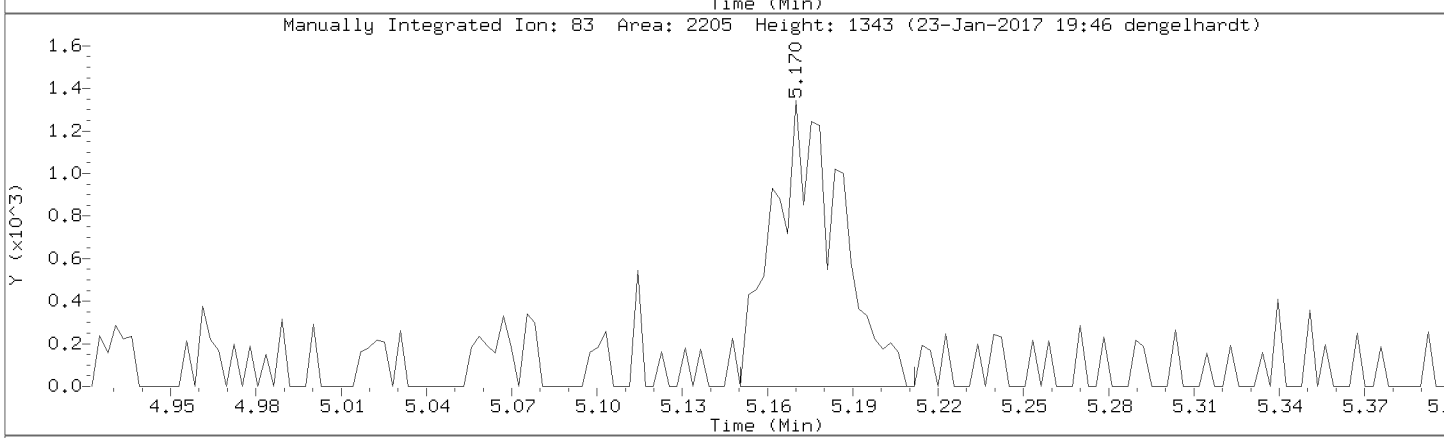
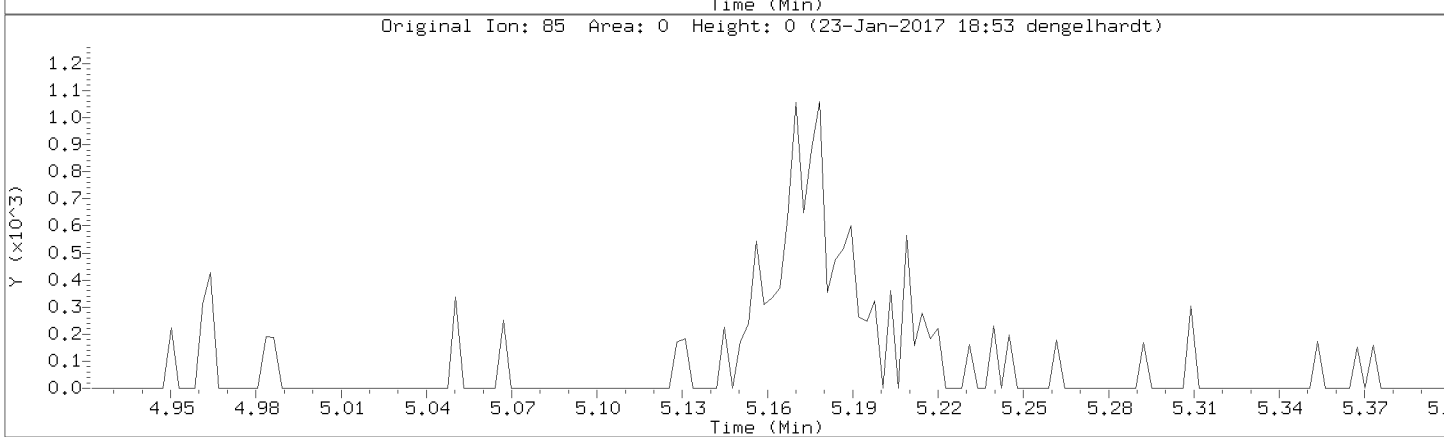
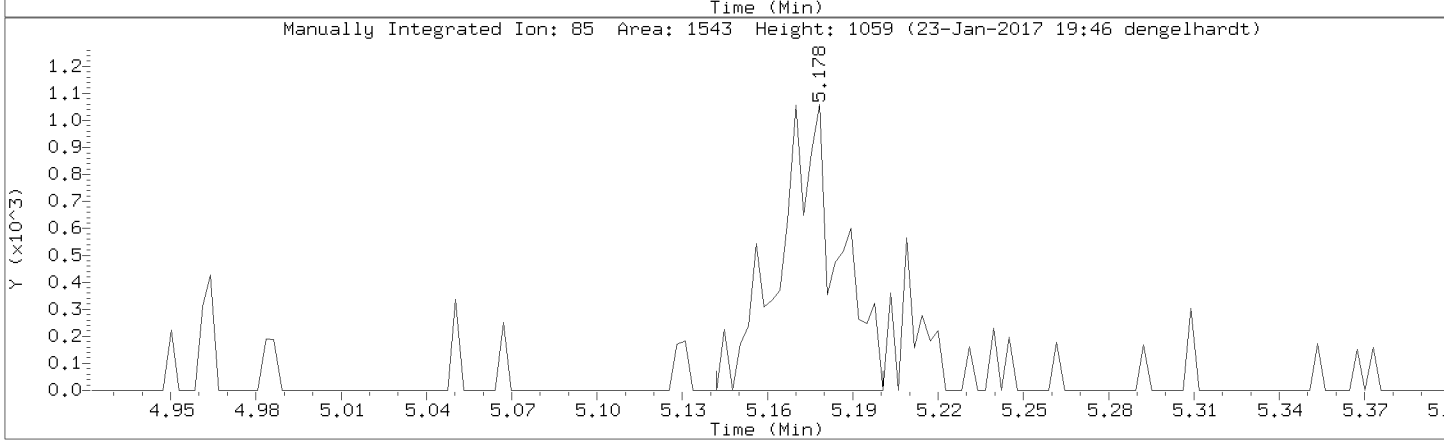
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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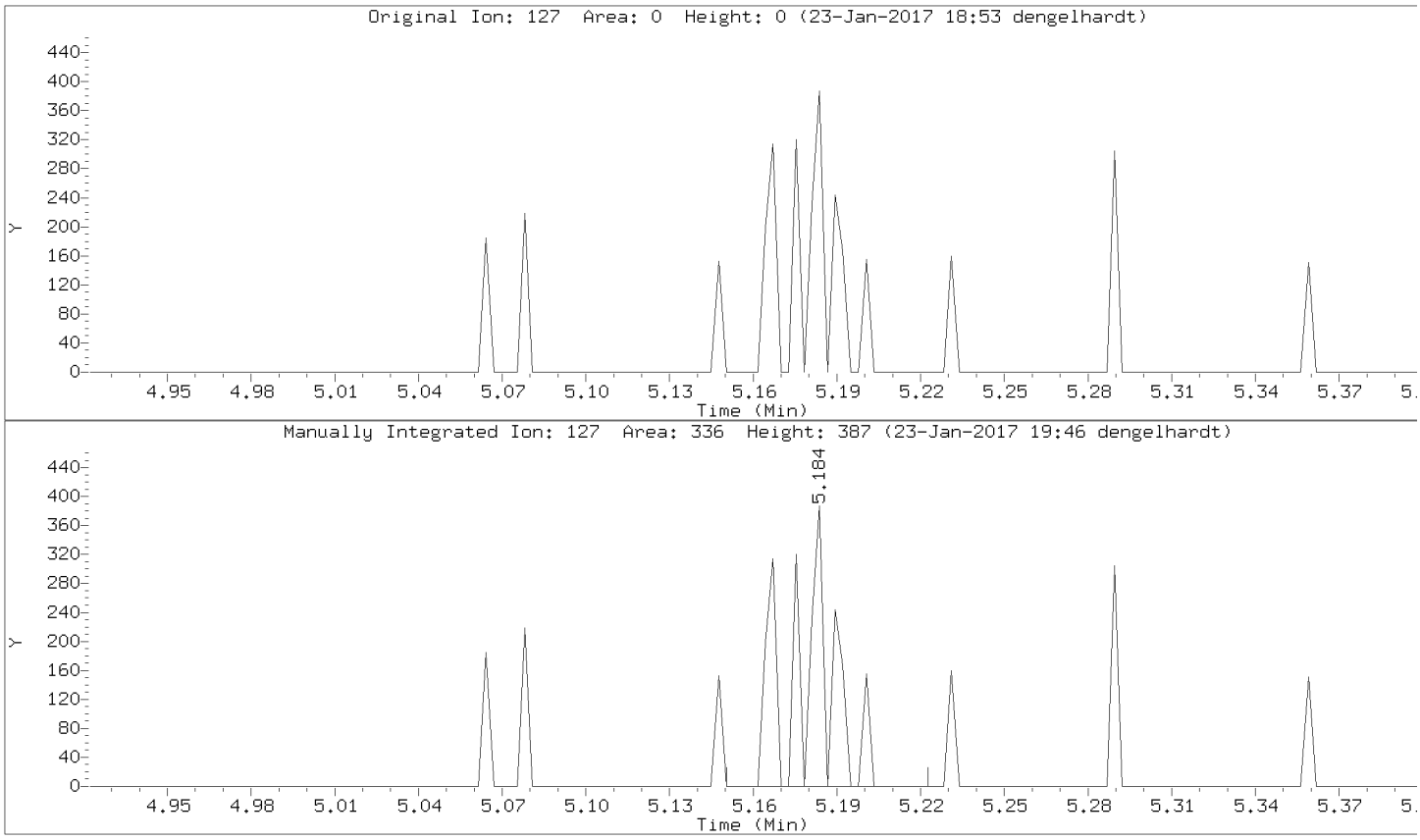
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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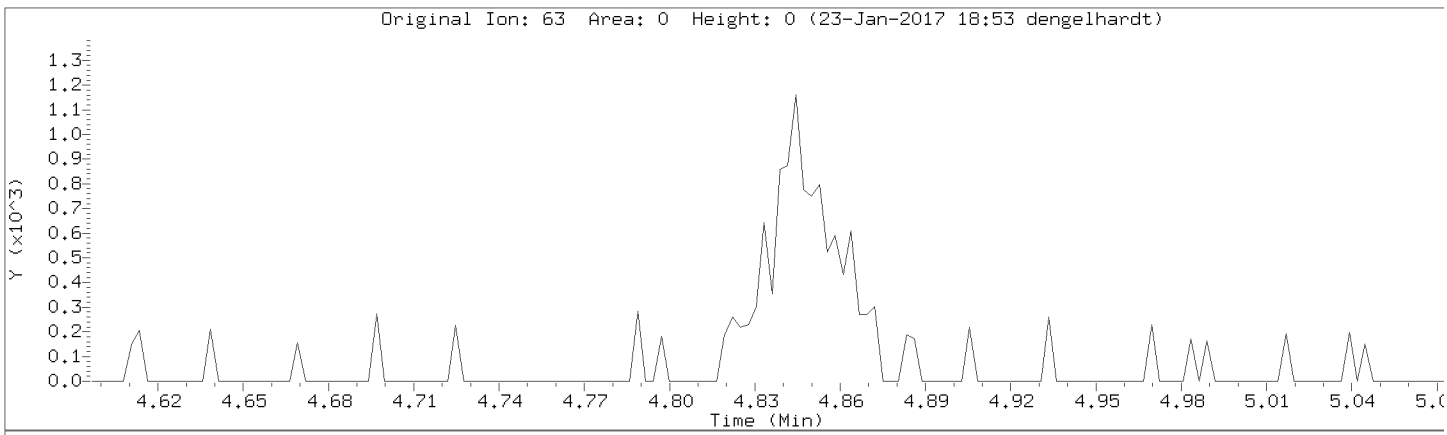
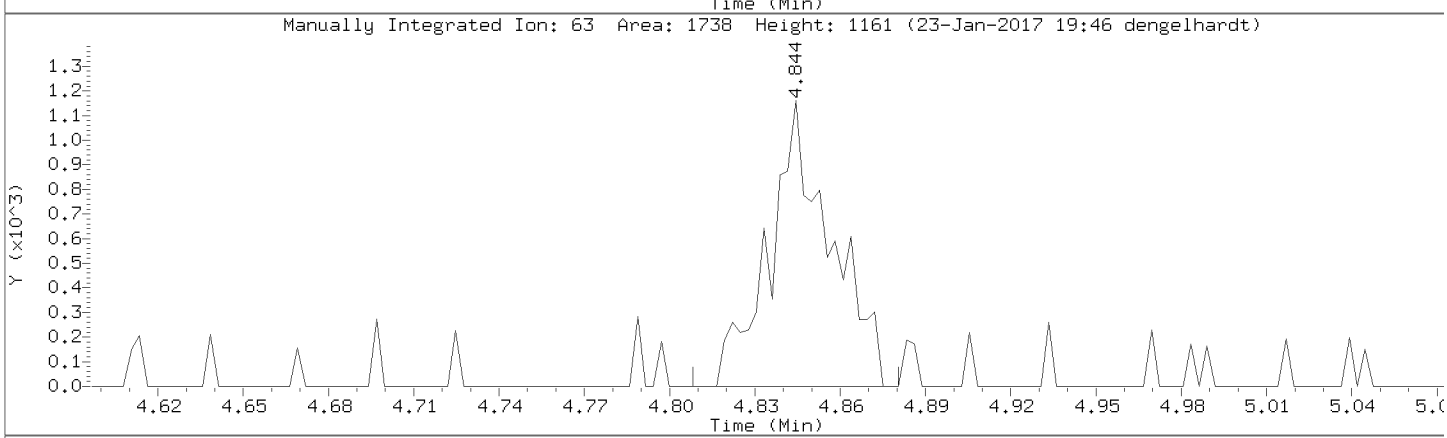
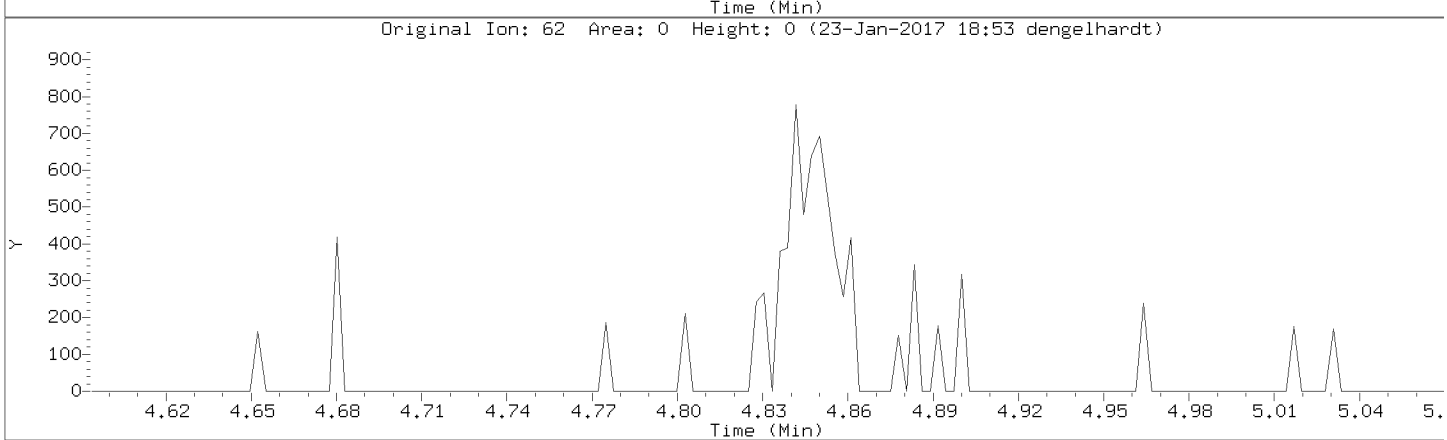
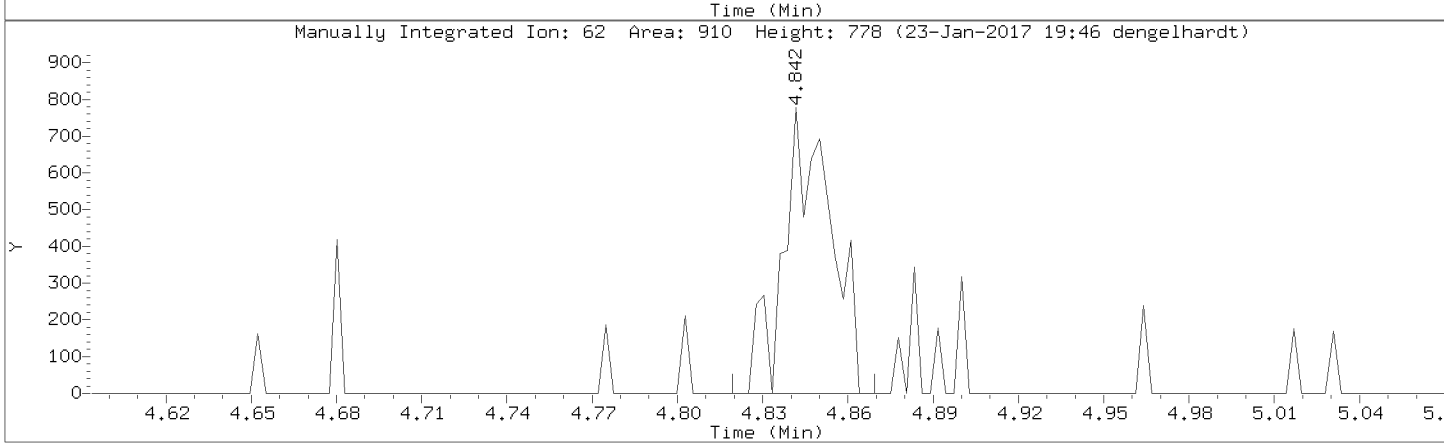
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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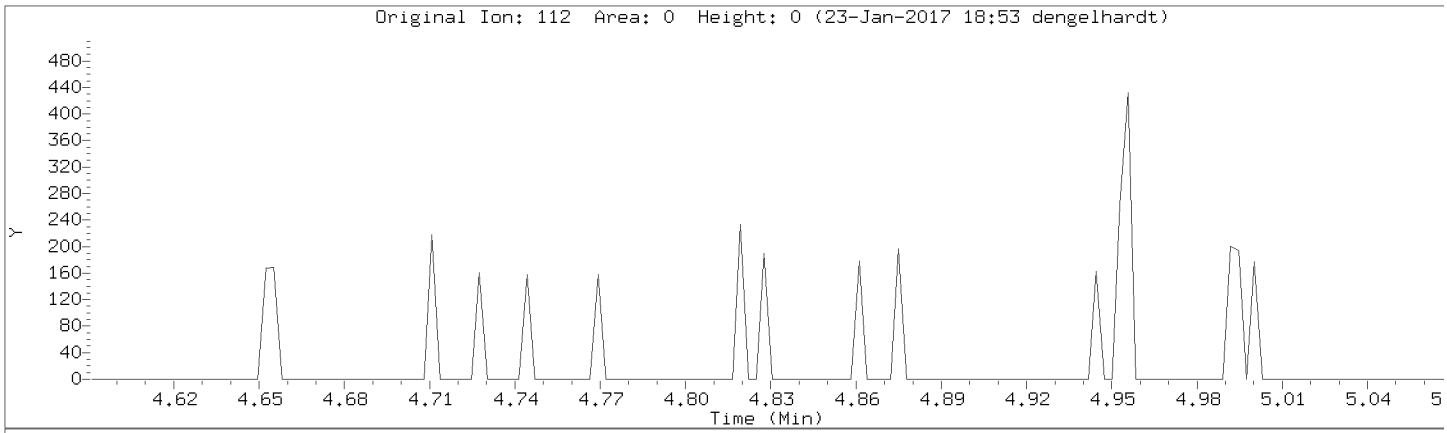
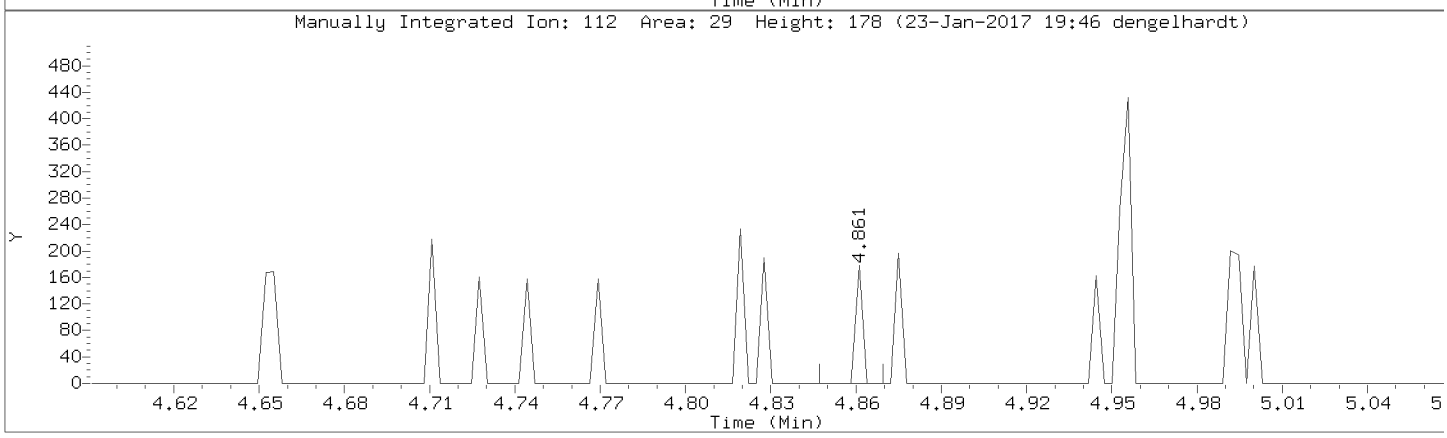
Lab Sample ID: 8260-CAL1,140426:0





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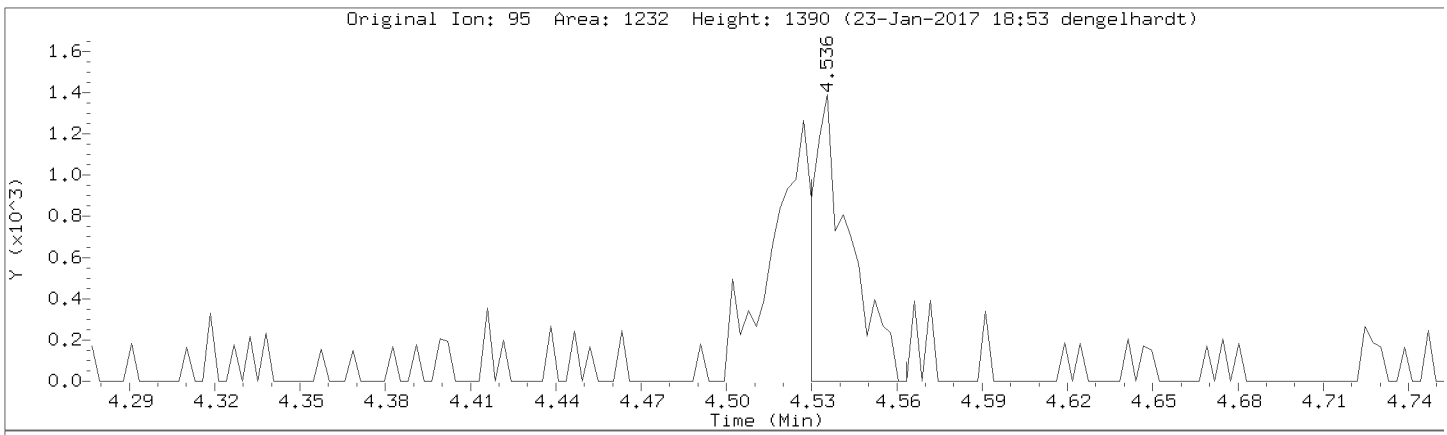
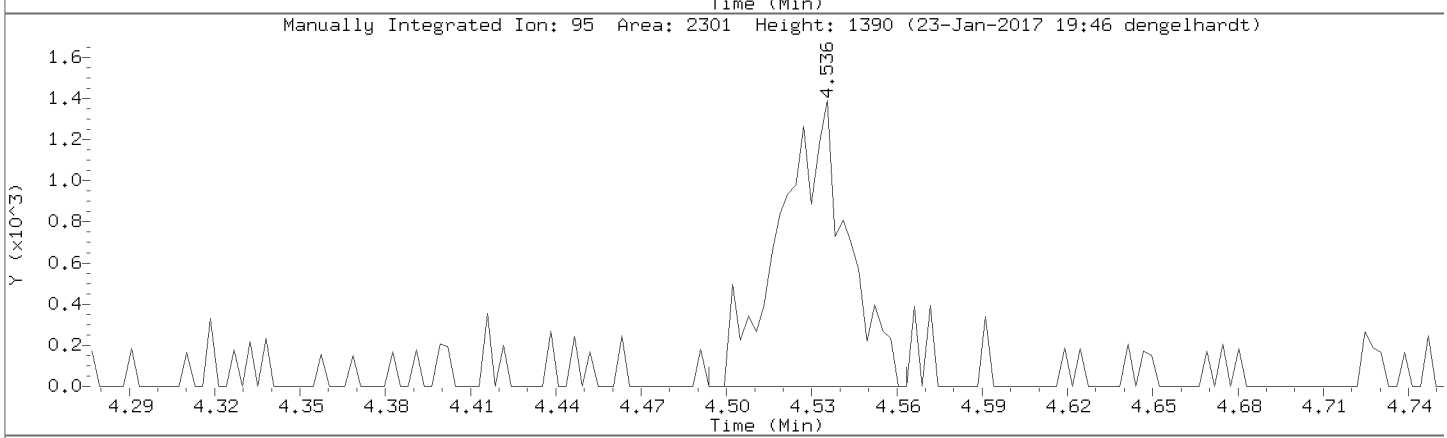
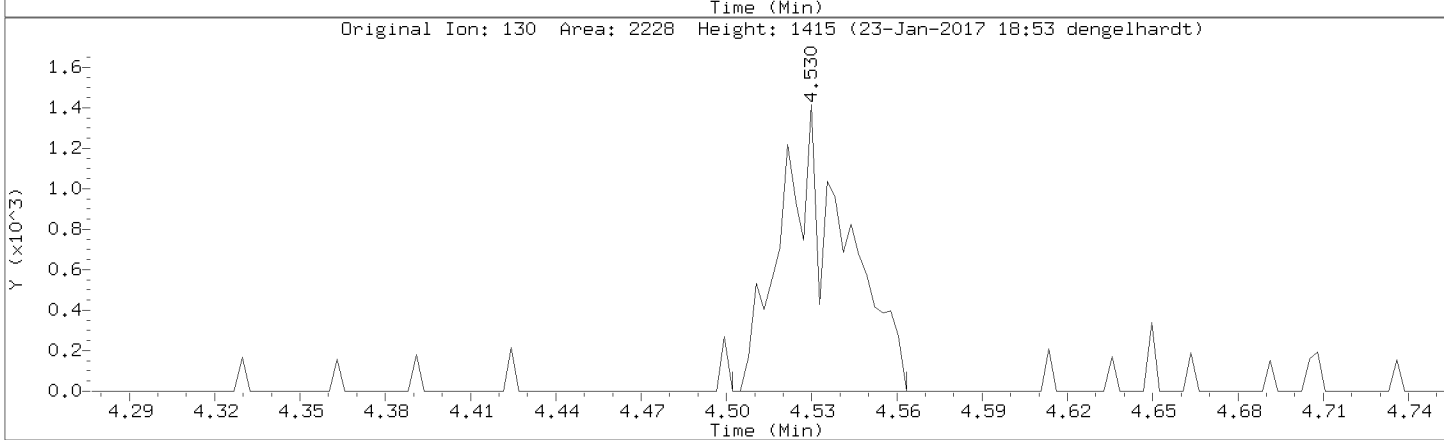
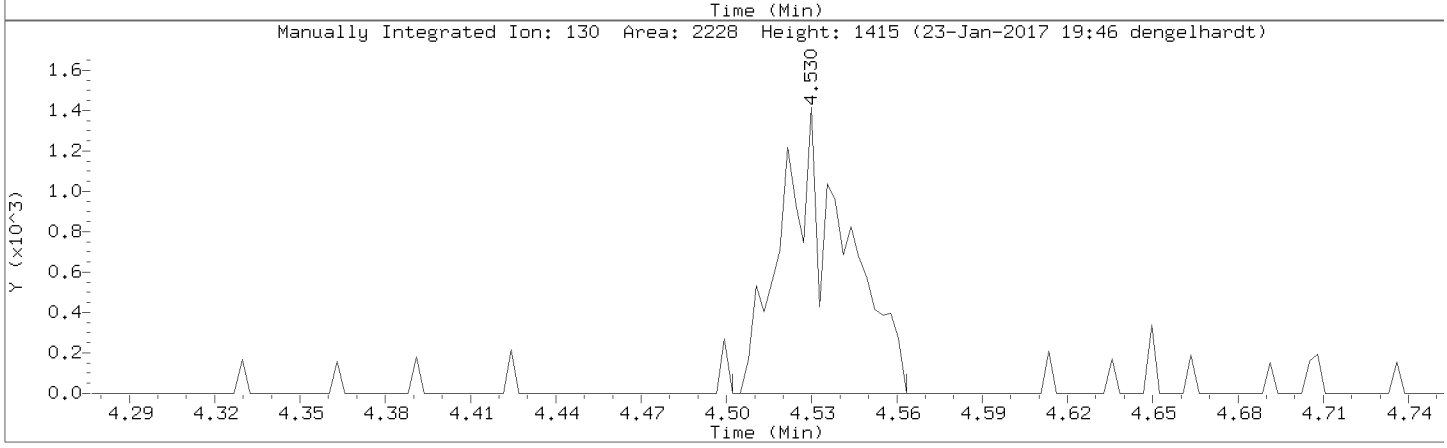
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Trichloroethene Review Code: LT
CAS Number: 79-01-6









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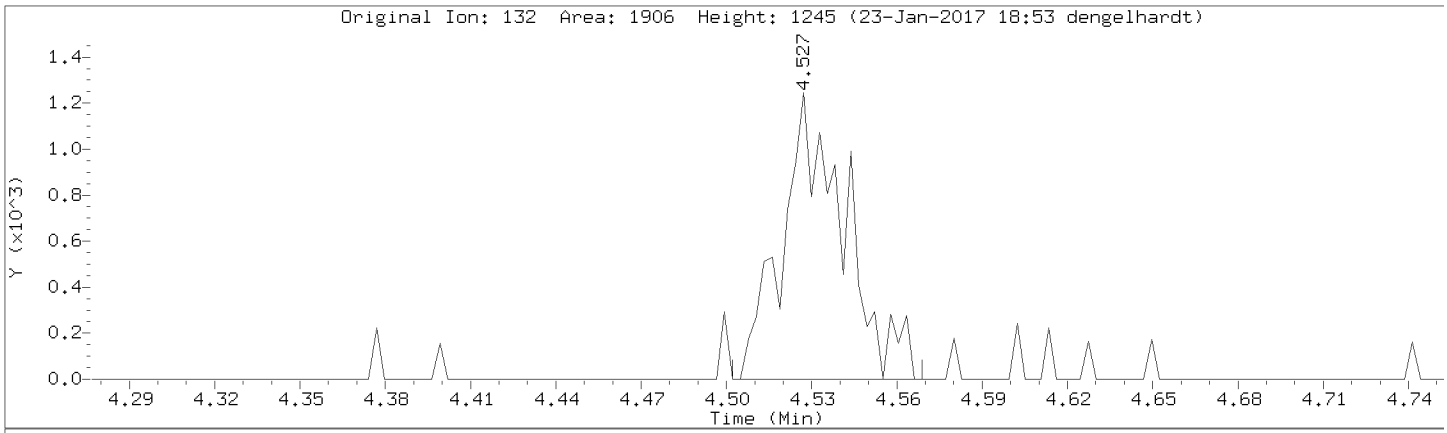
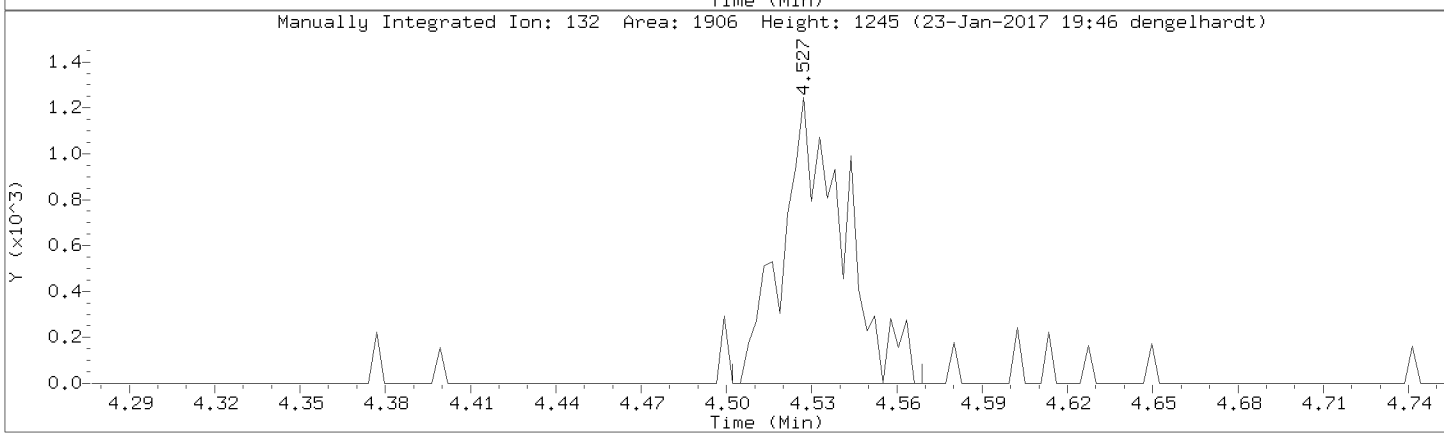
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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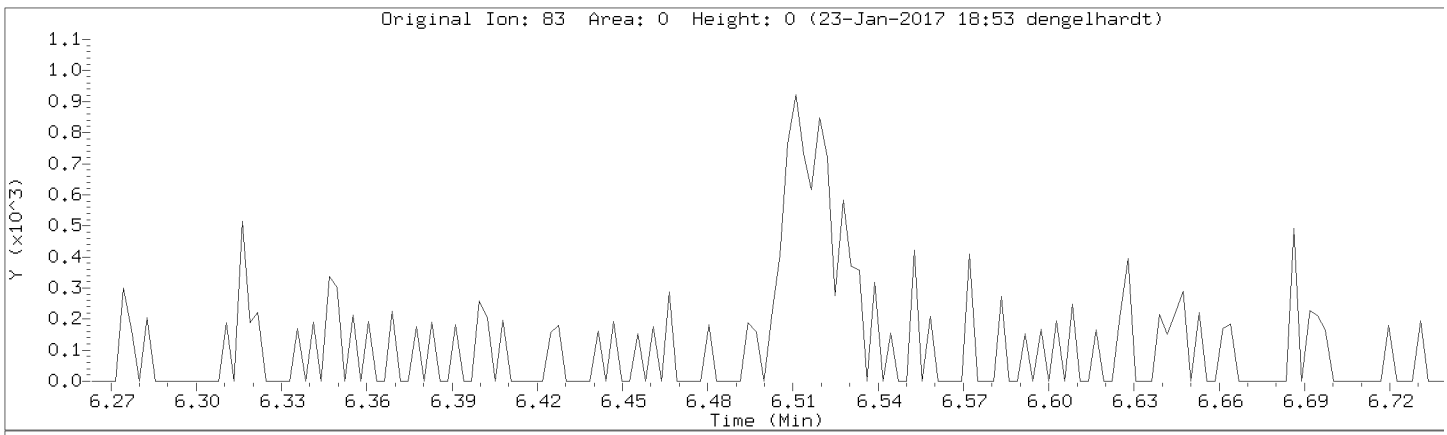
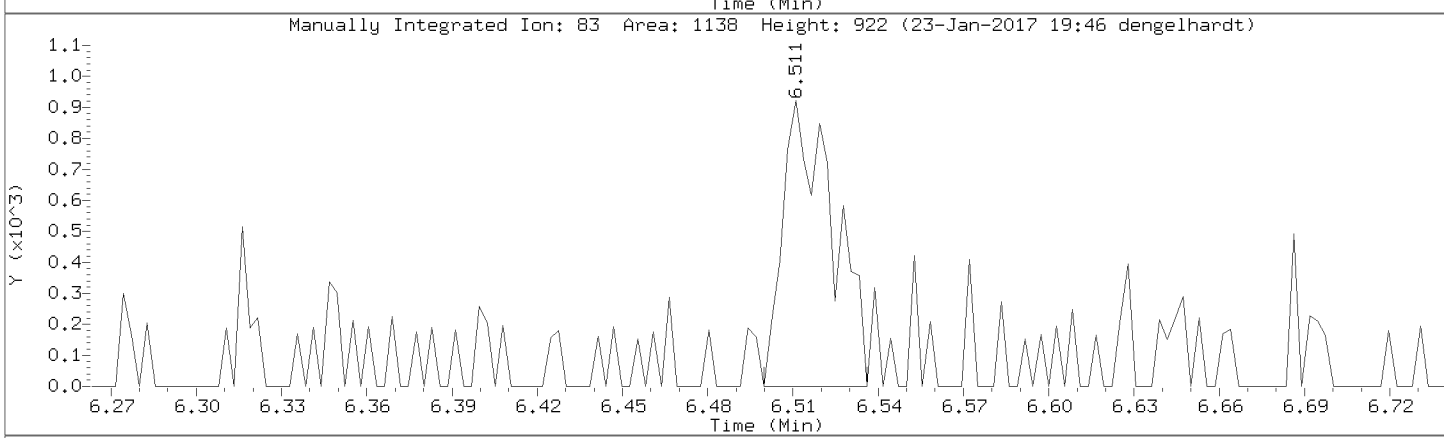
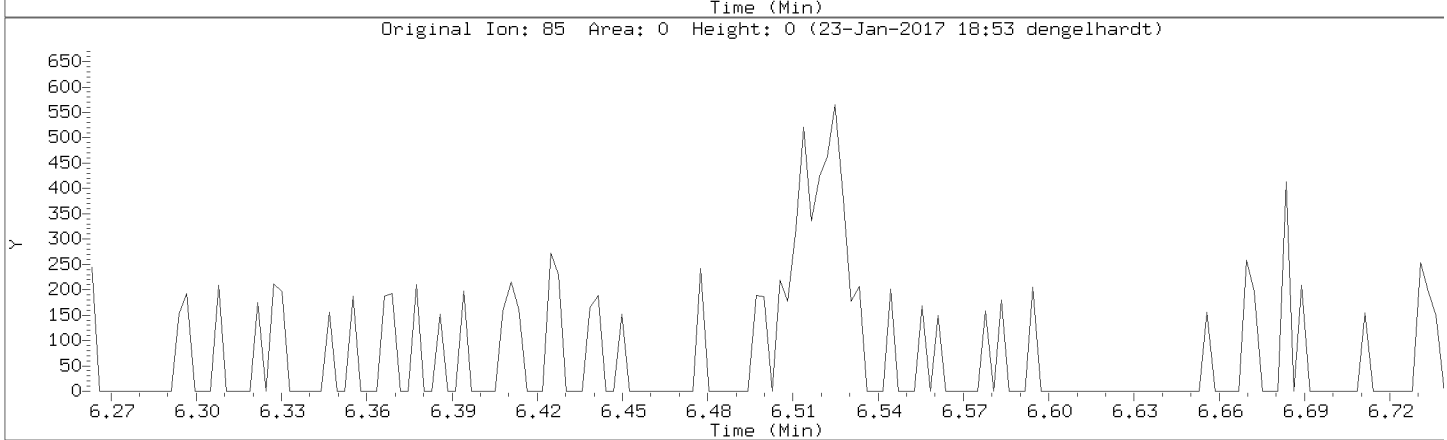
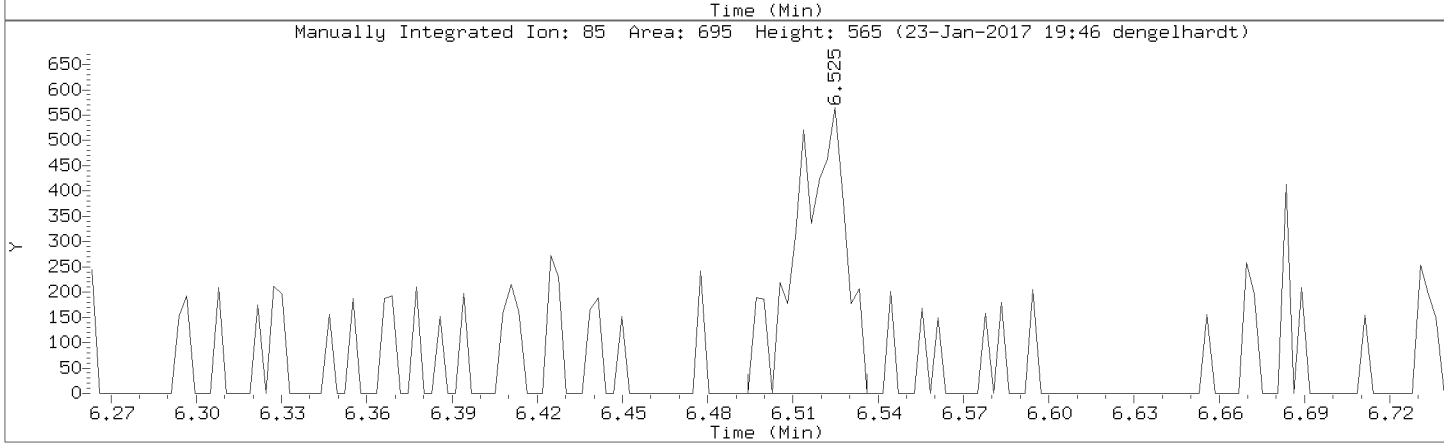
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,2-Trichloroethane Review Code: NI
CAS Number: 79-00-5









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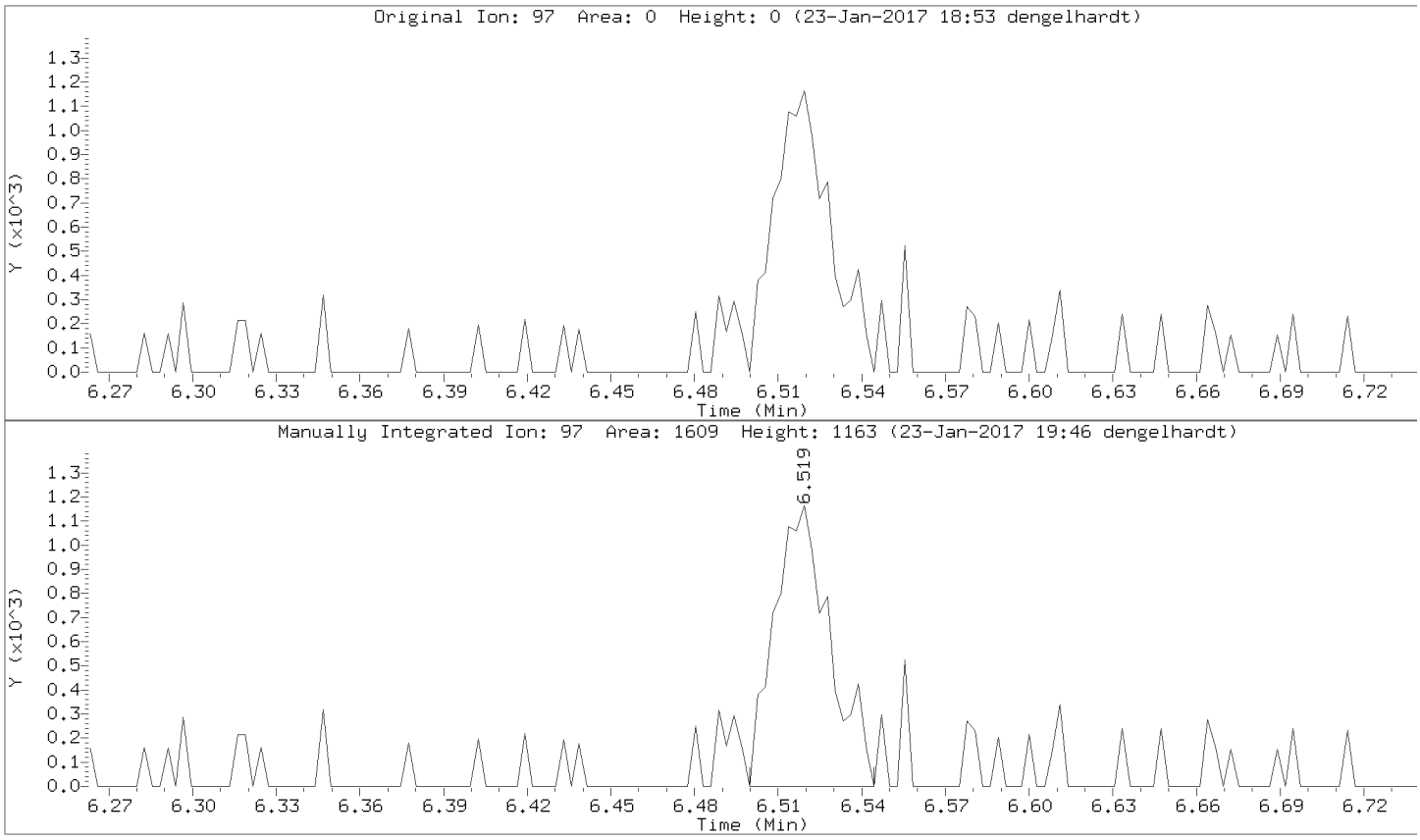
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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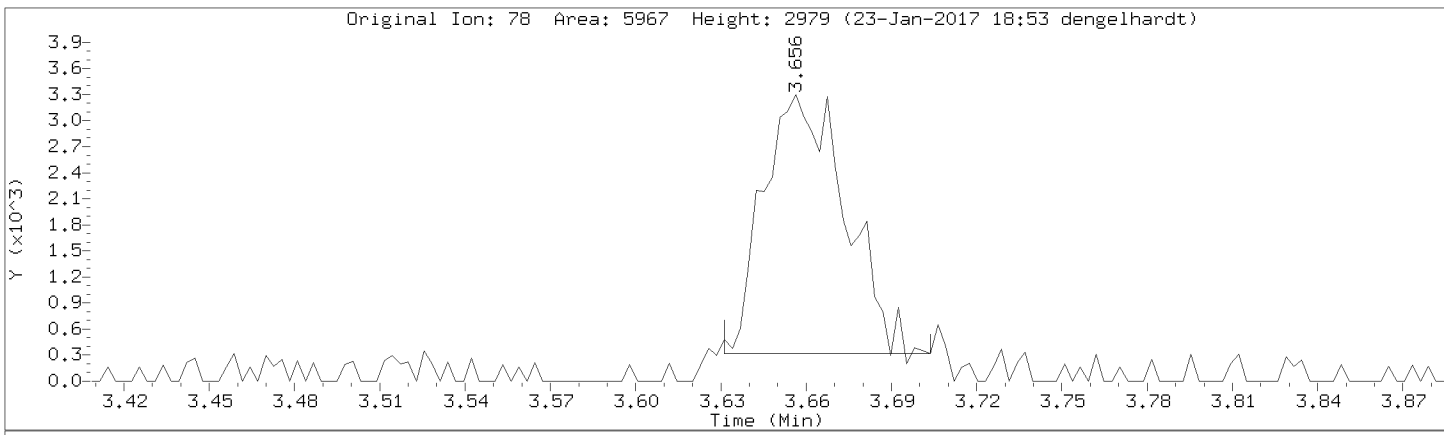
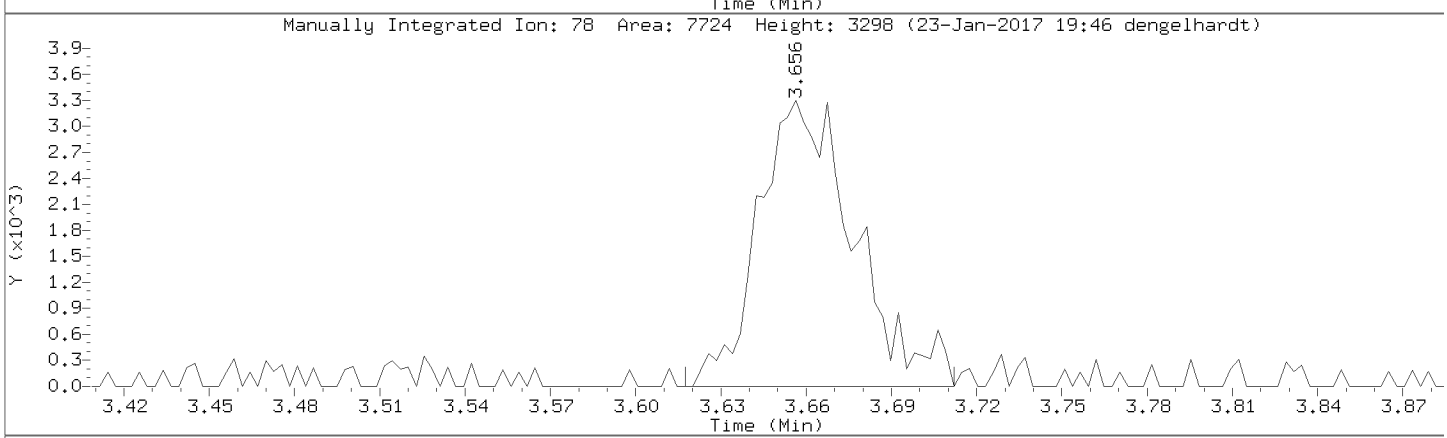
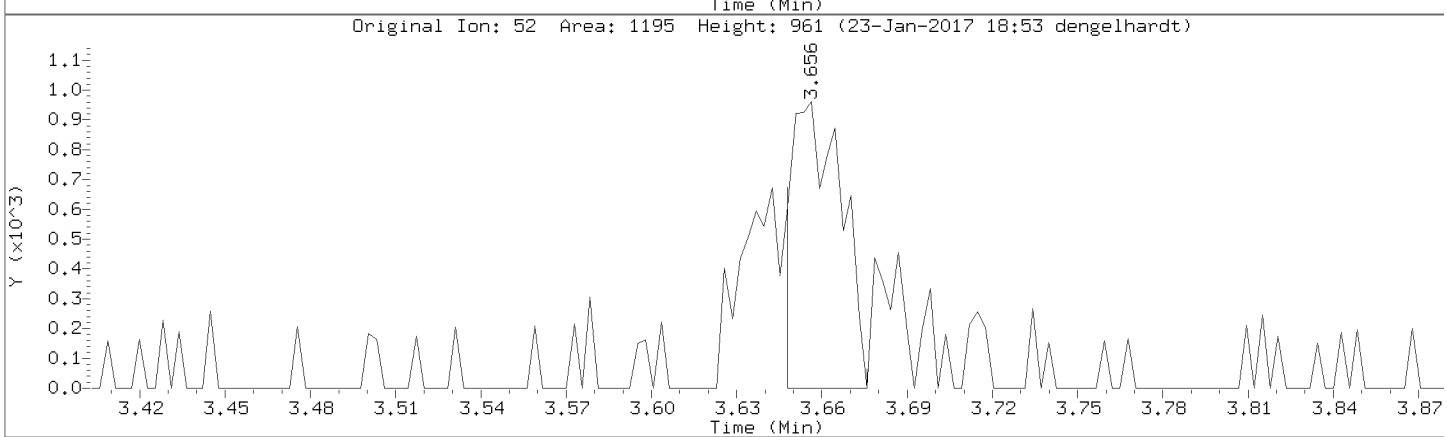
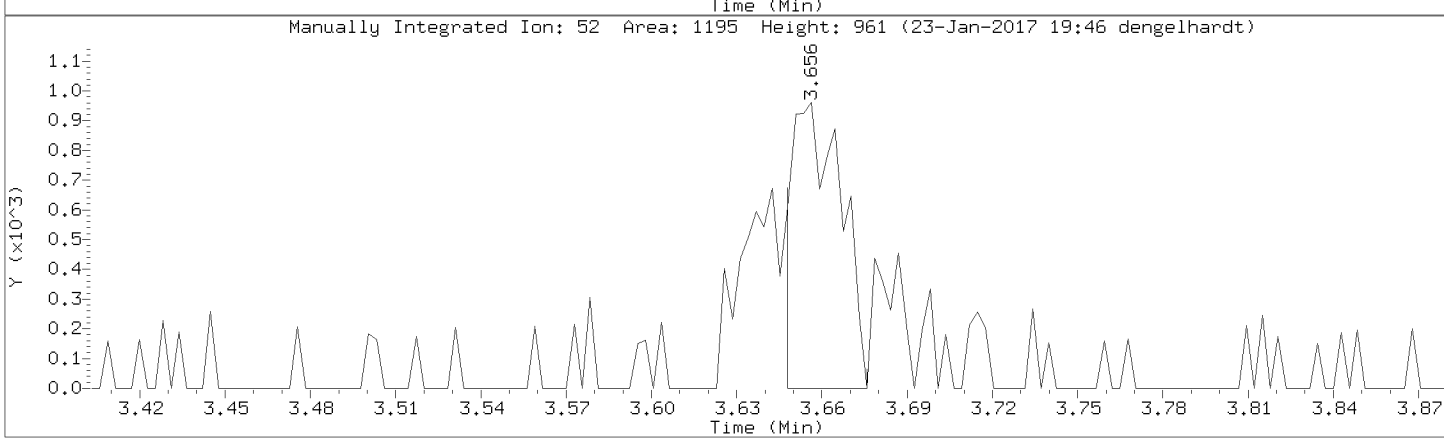
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Benzene Review Code: LT
CAS Number: 71-43-2









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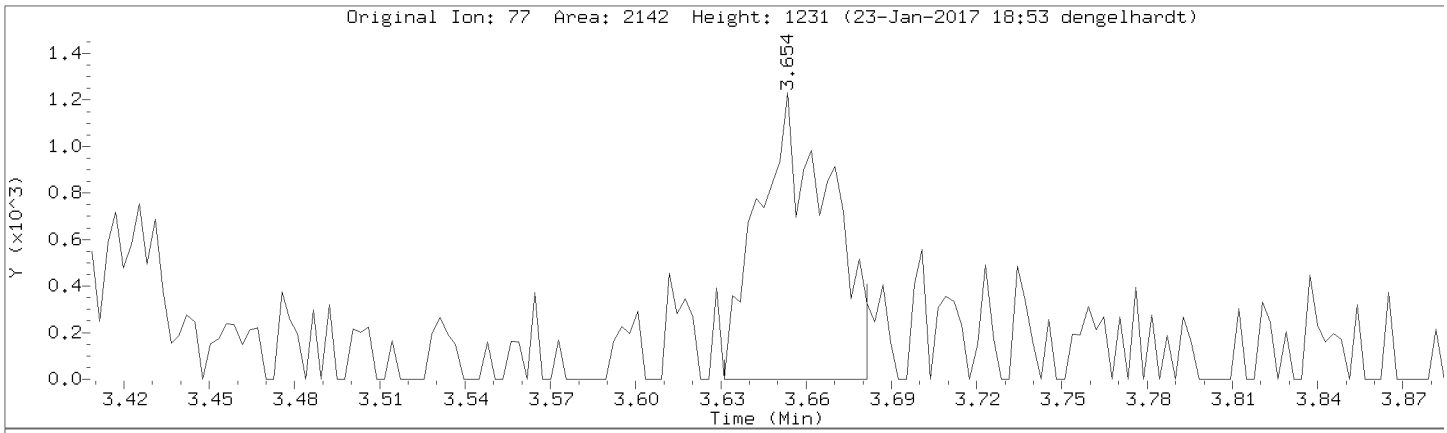
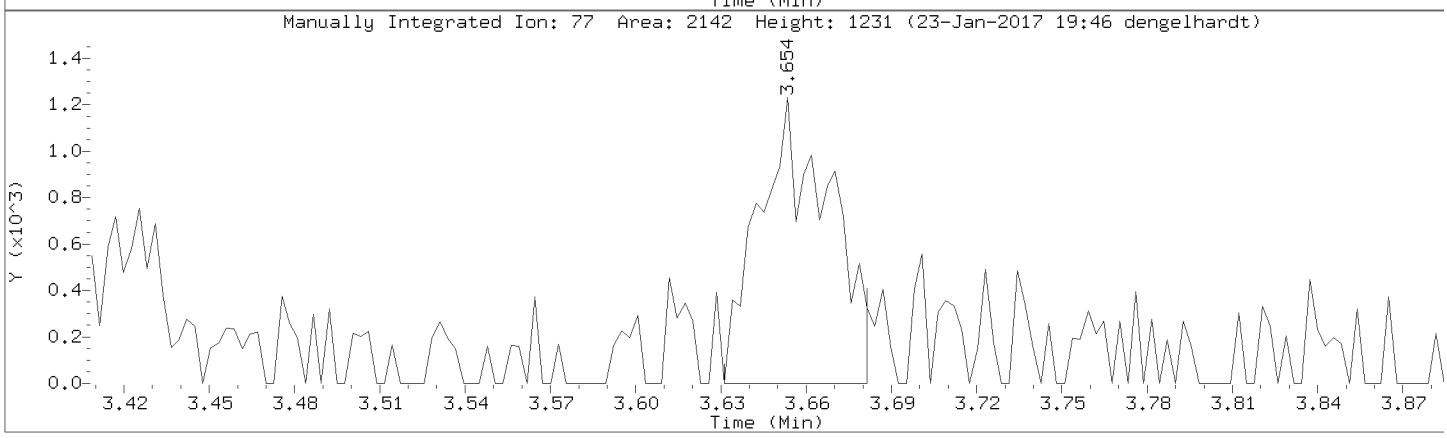
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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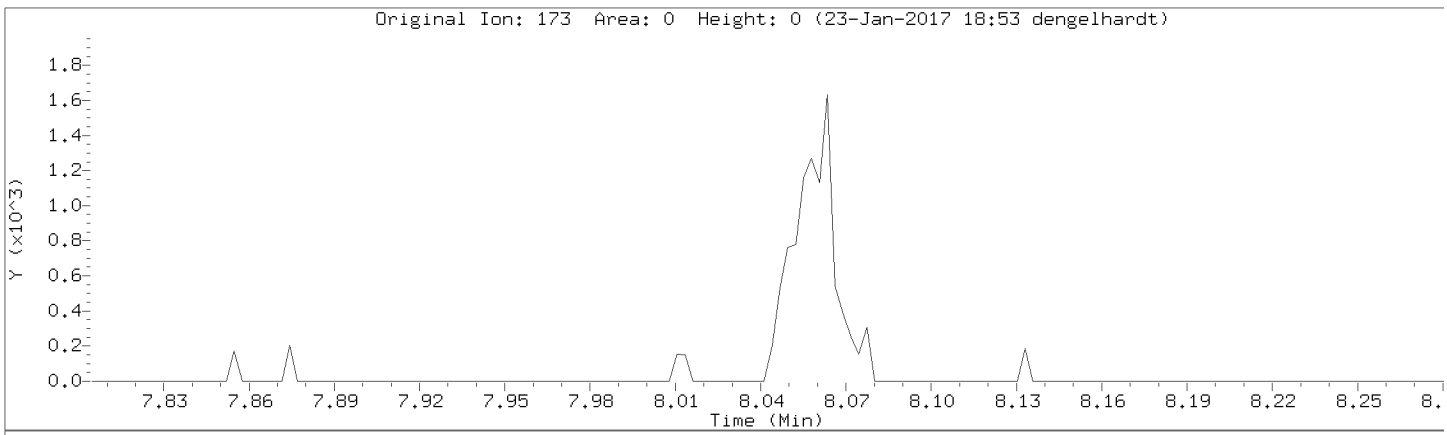
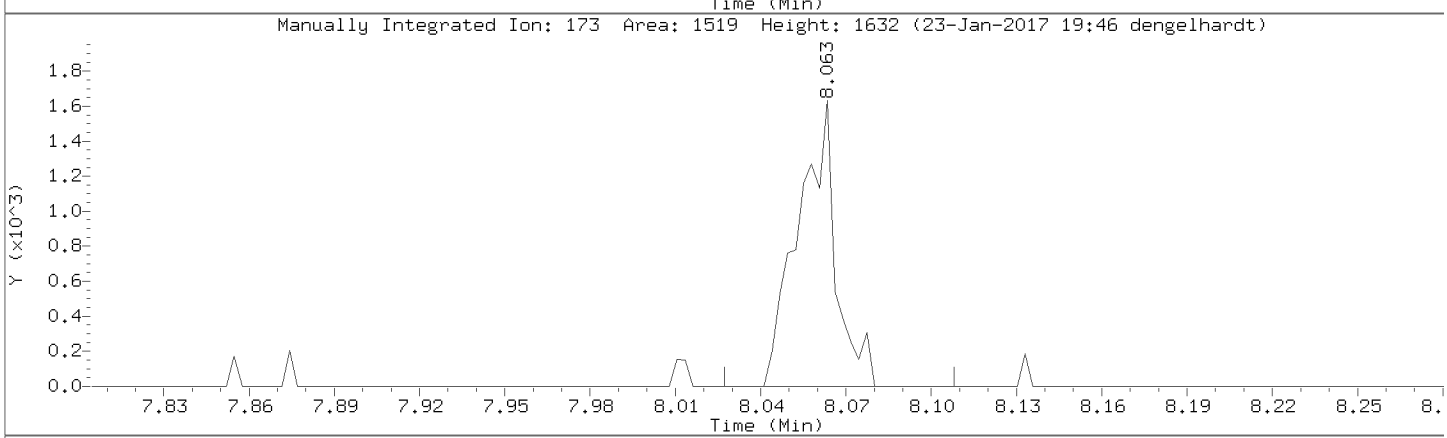
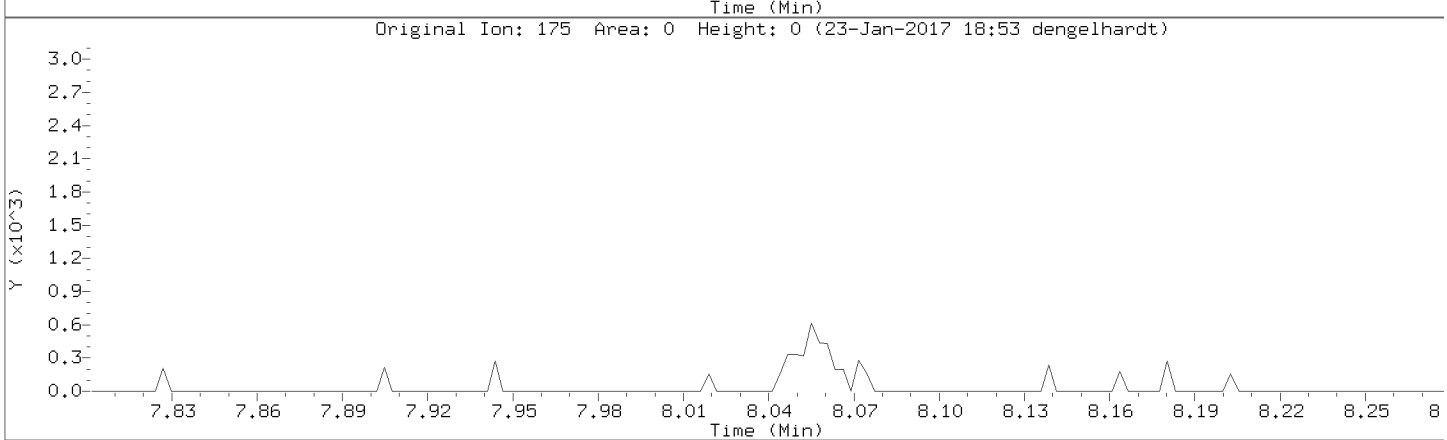
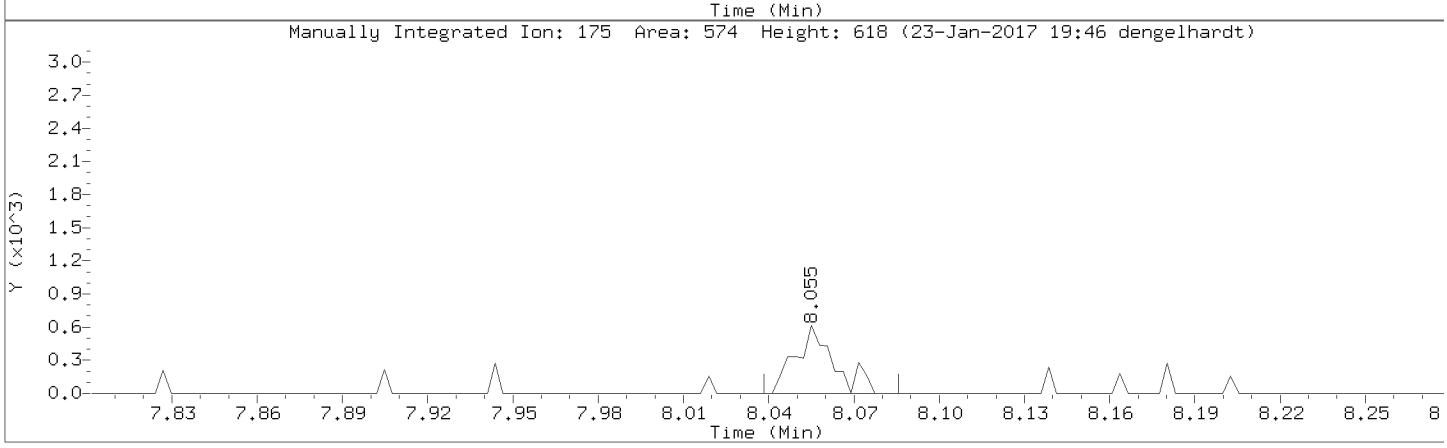
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
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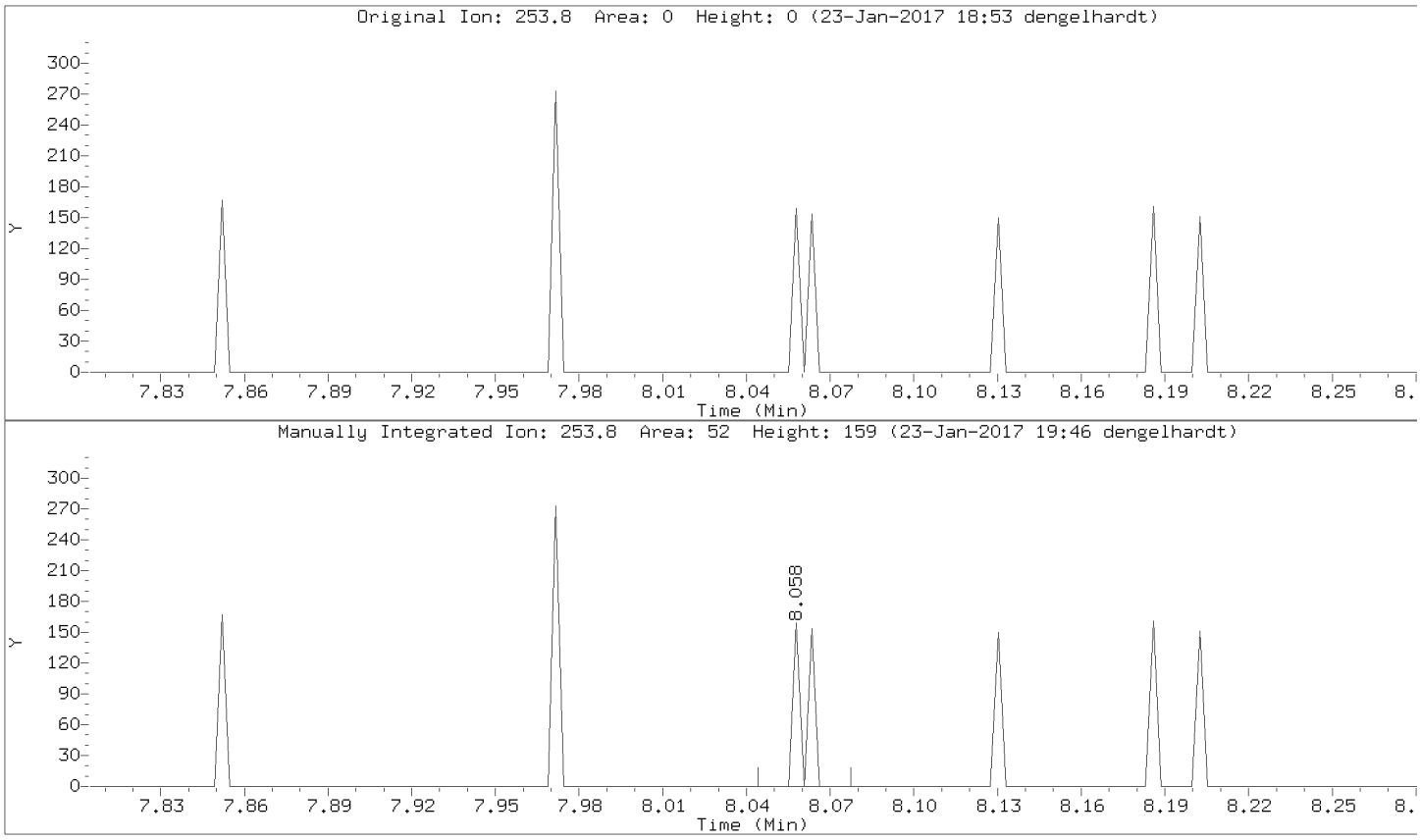
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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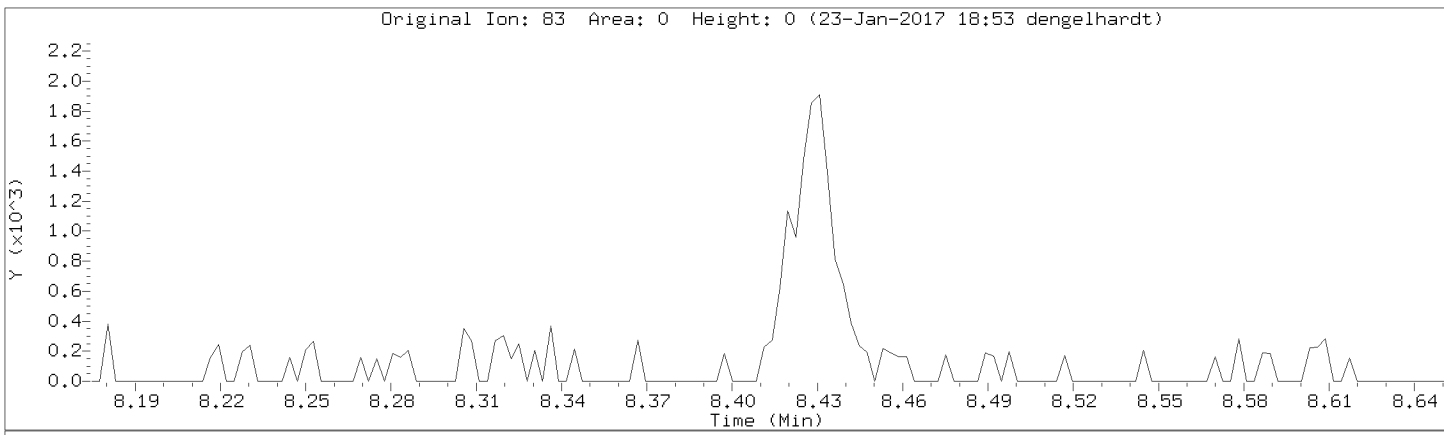
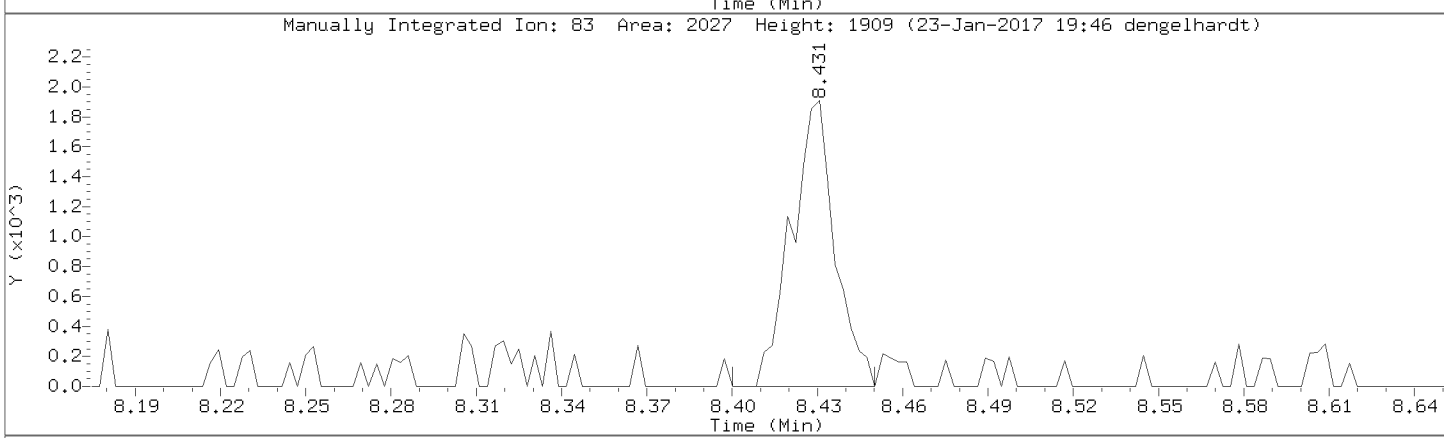
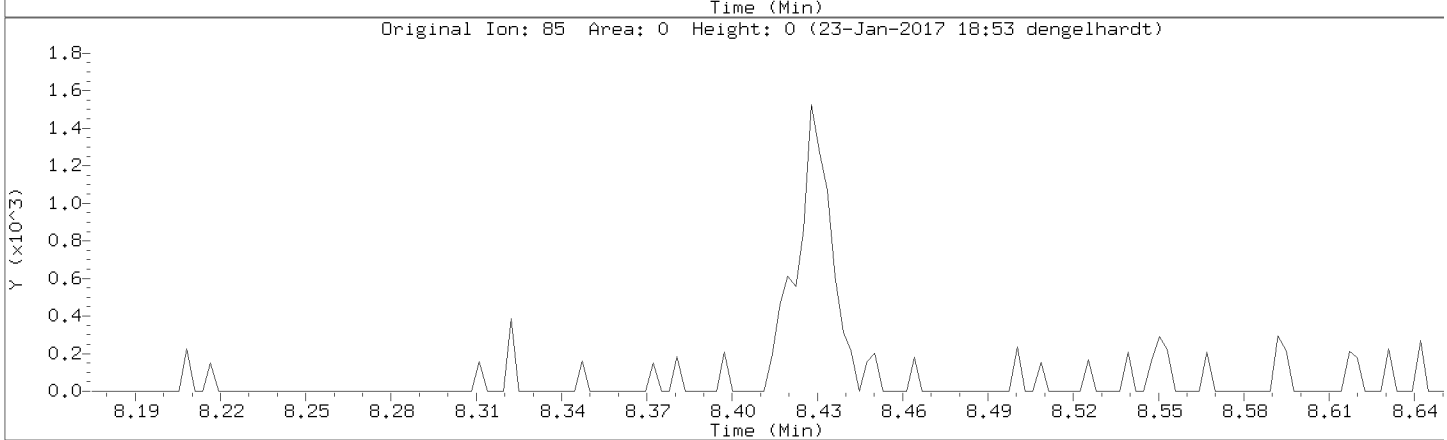
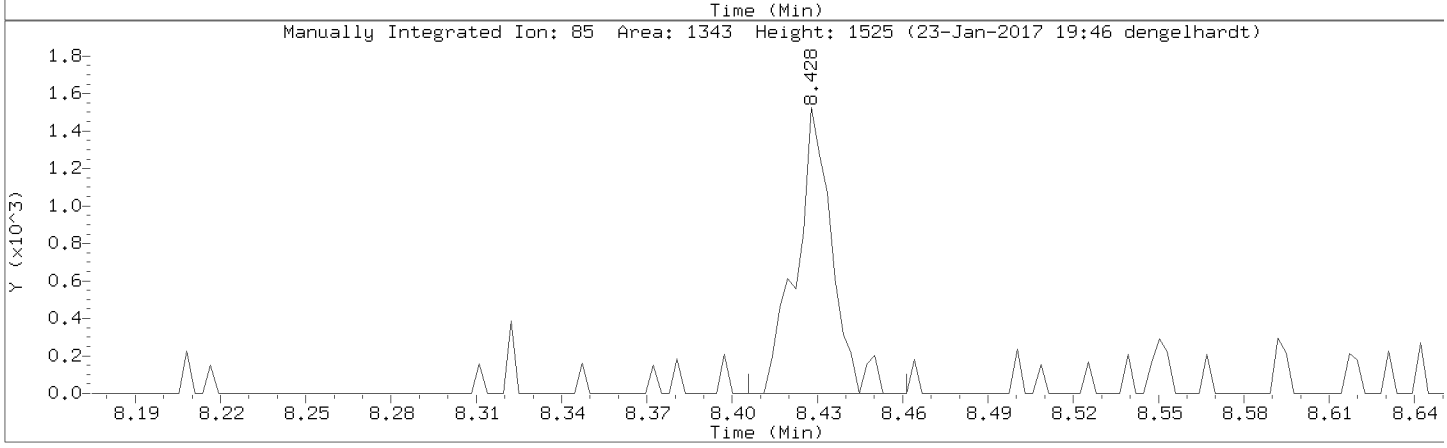
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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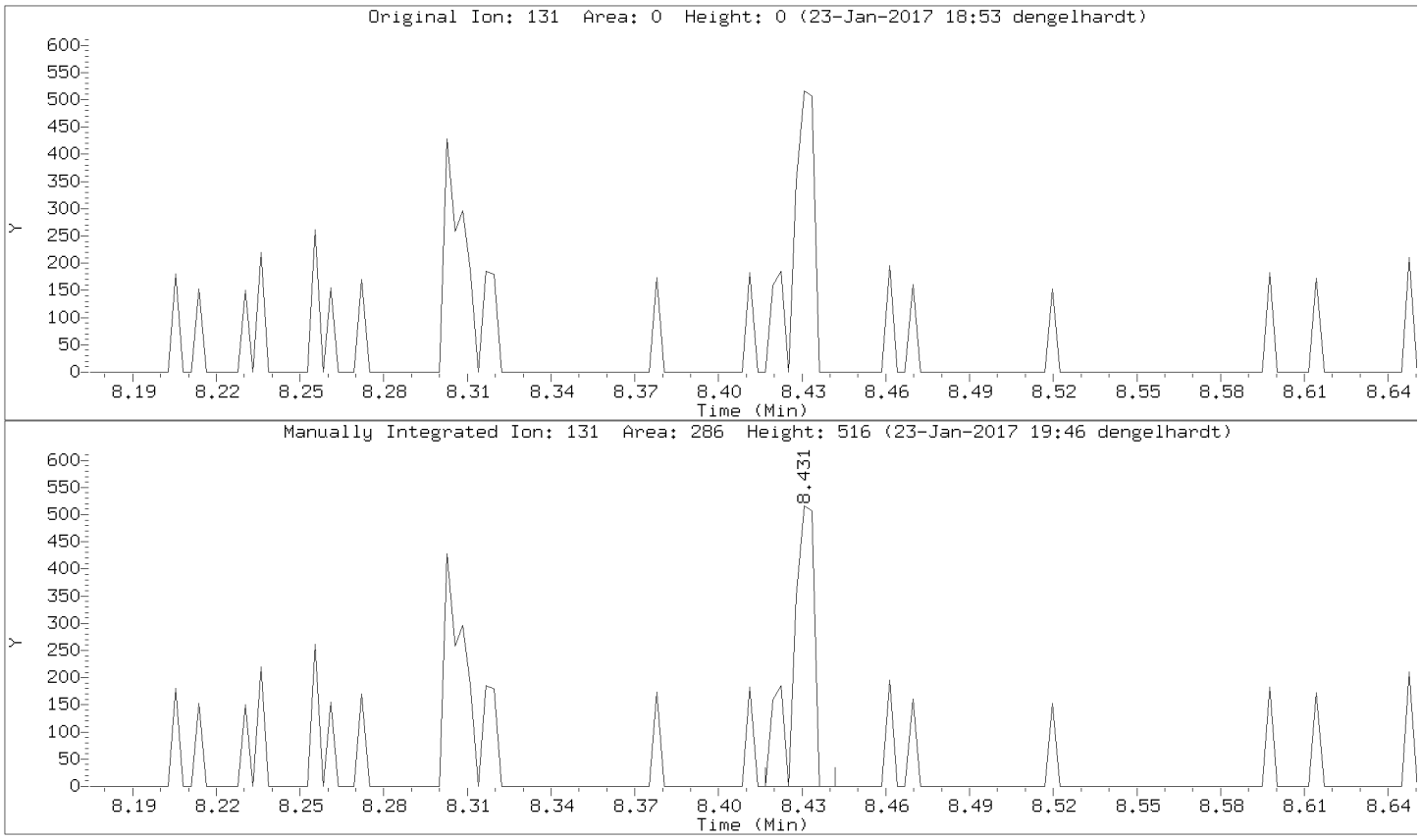
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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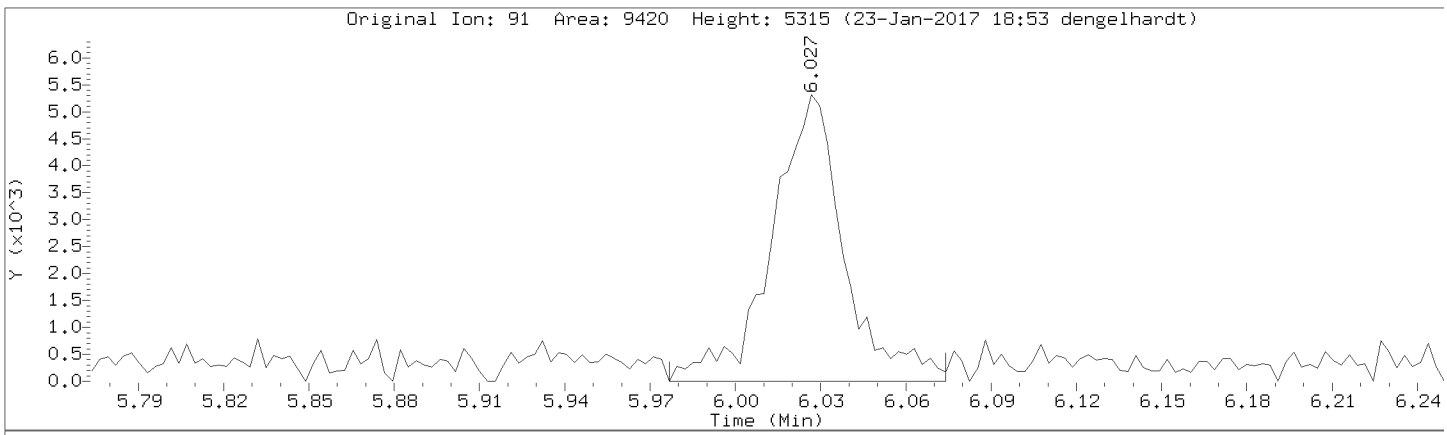
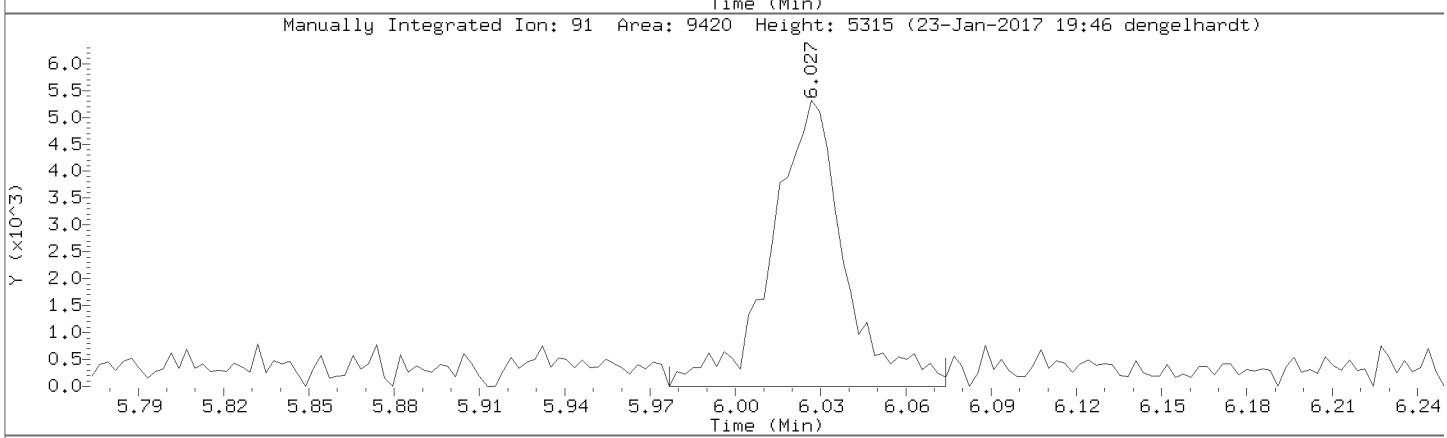
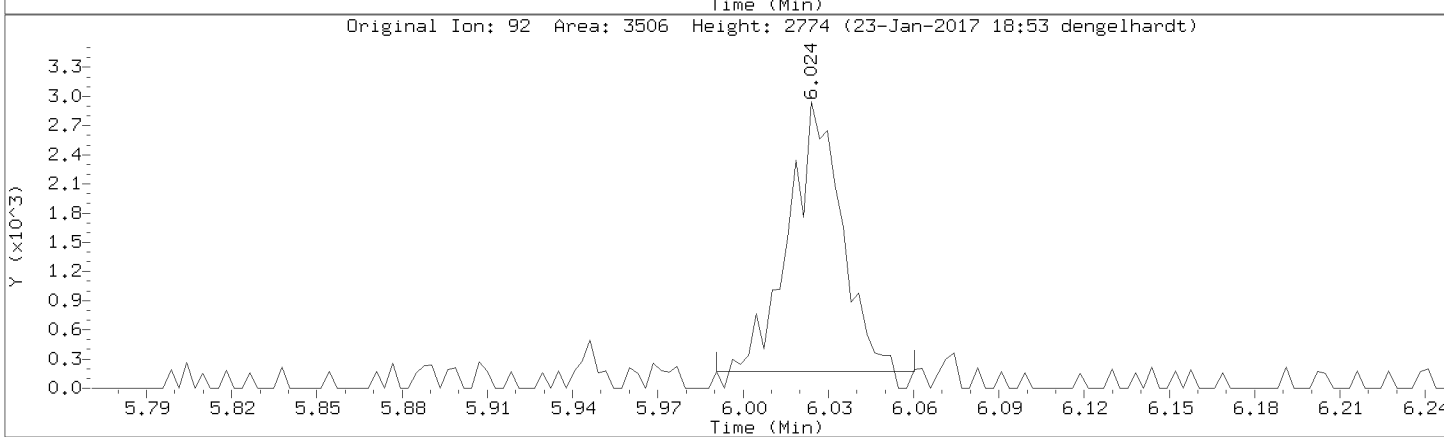
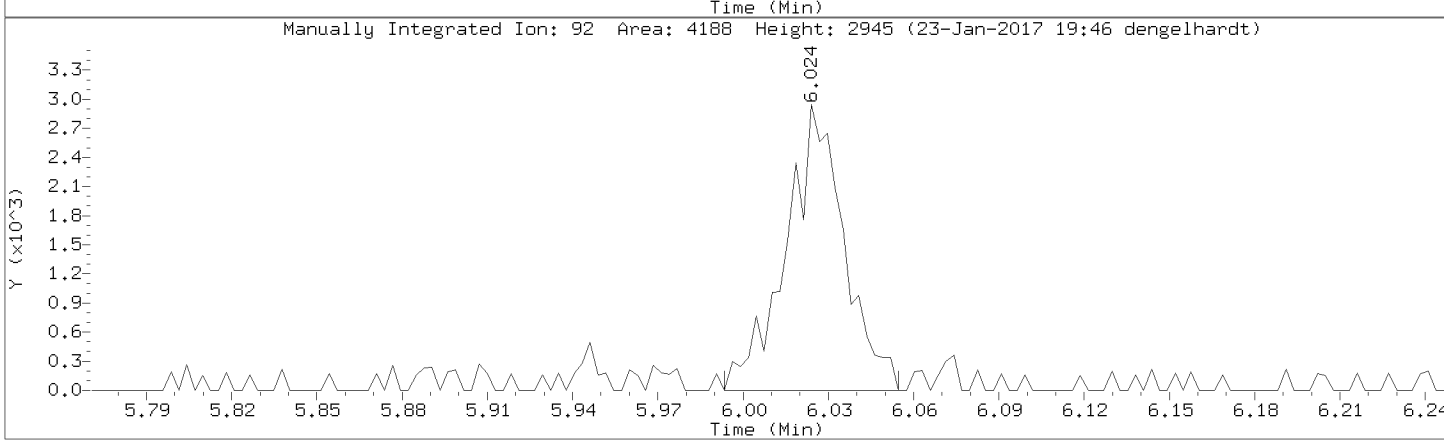
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Toluene Review Code: LT
CAS Number: 108-88-3









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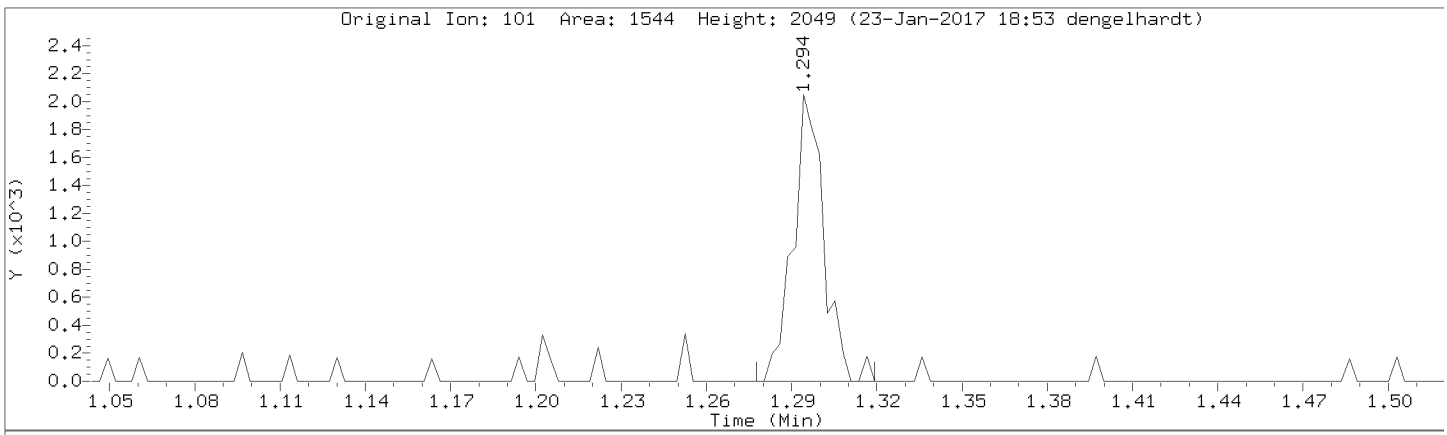
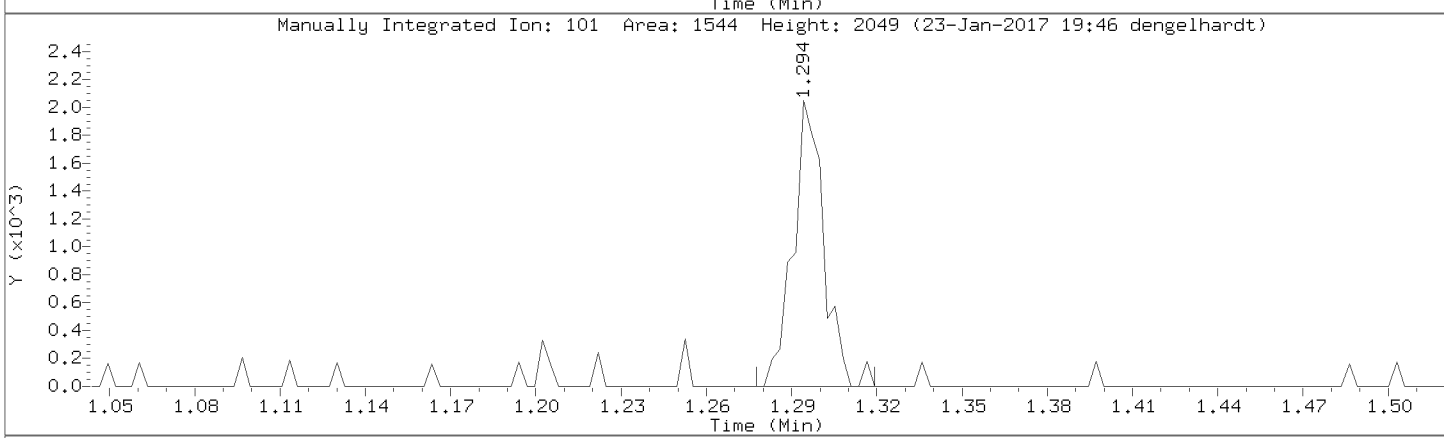
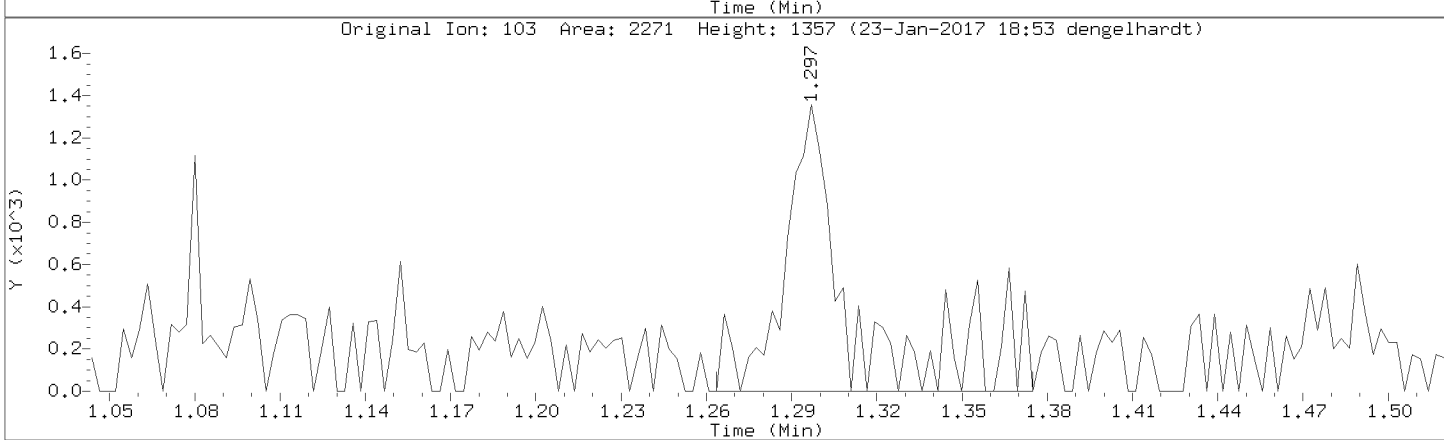
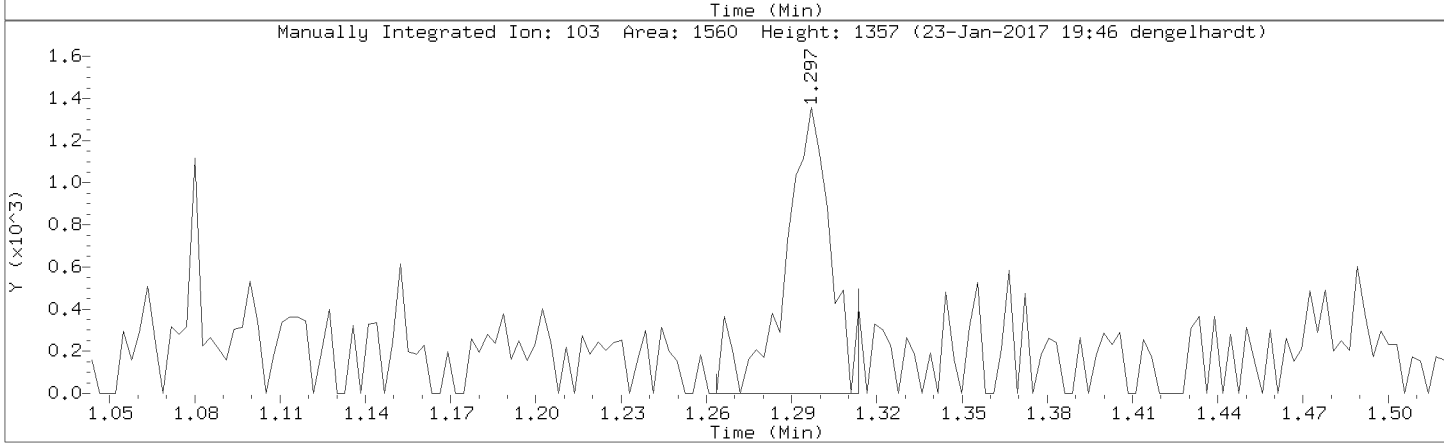
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Trichlorofluoromethane Review Code: GT
CAS Number: 75-69-4









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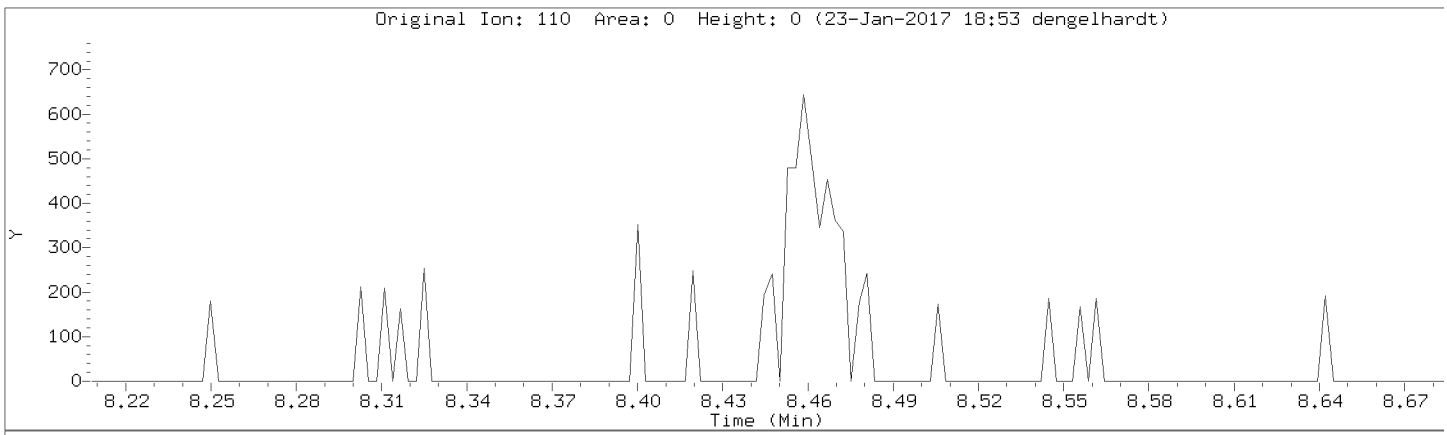
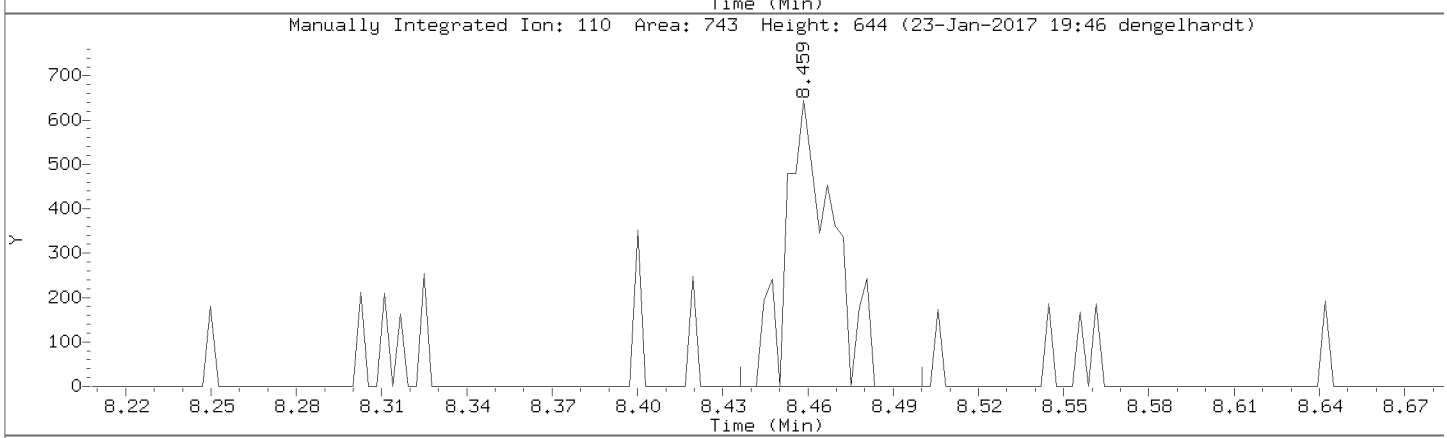
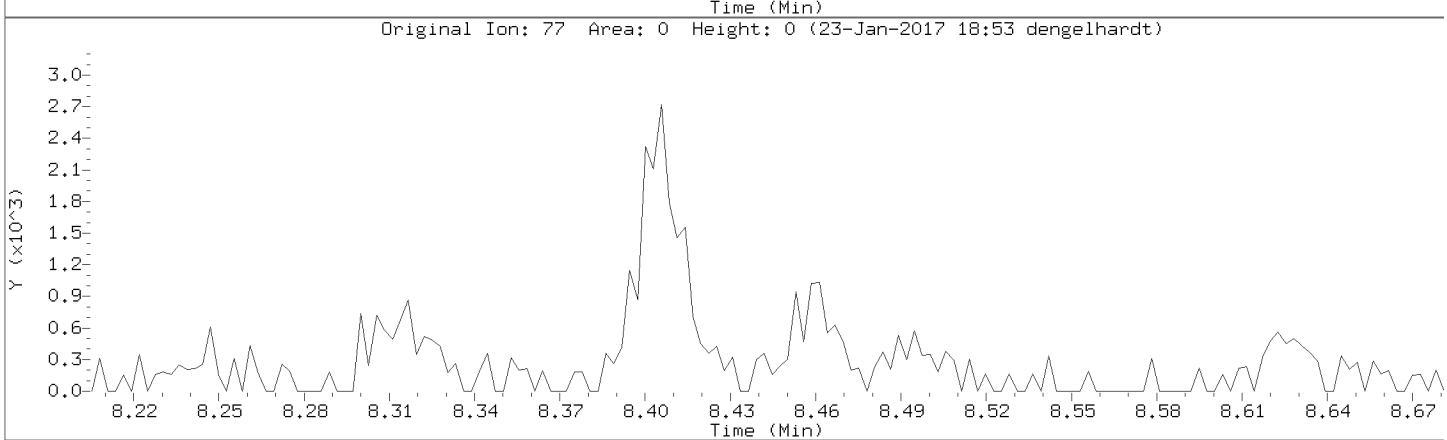
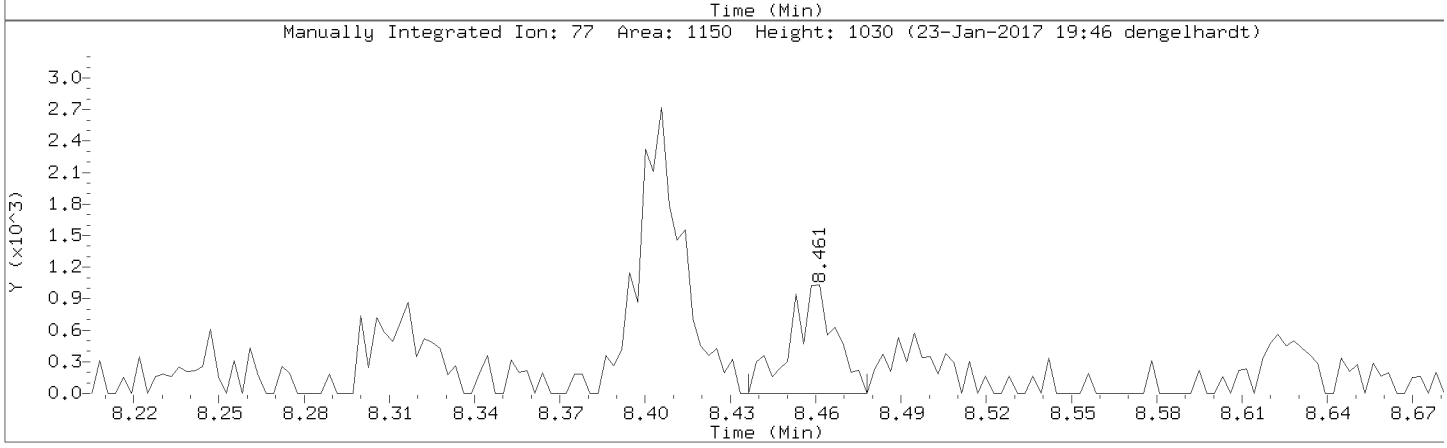
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,3-Trichloropropane Review Code: NI
CAS Number: 96-18-4









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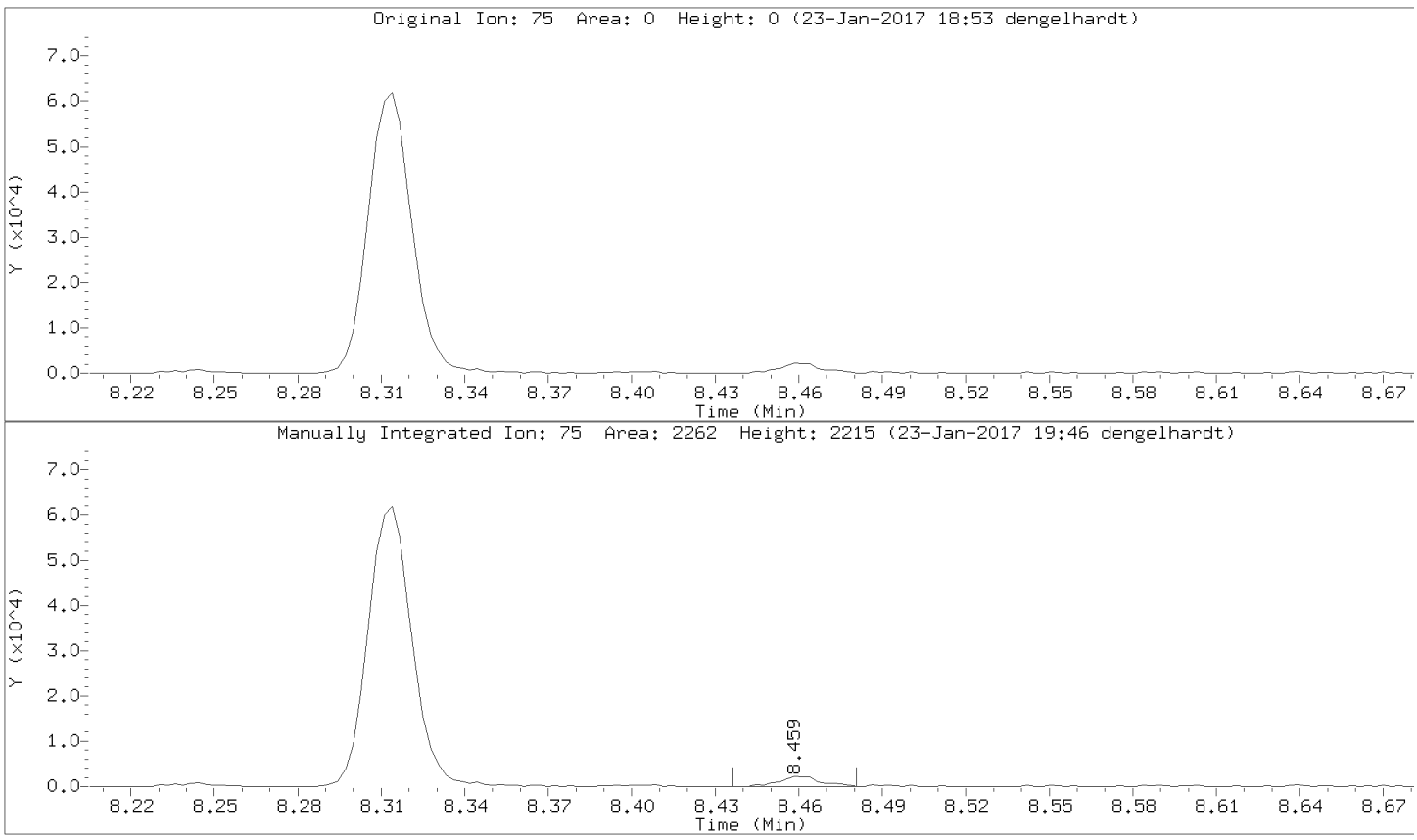

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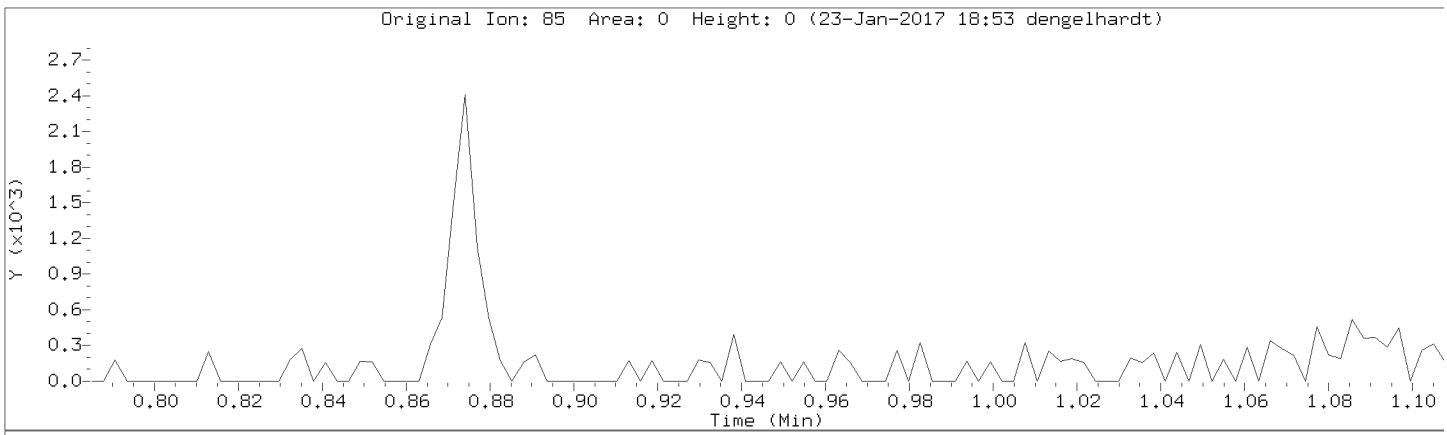
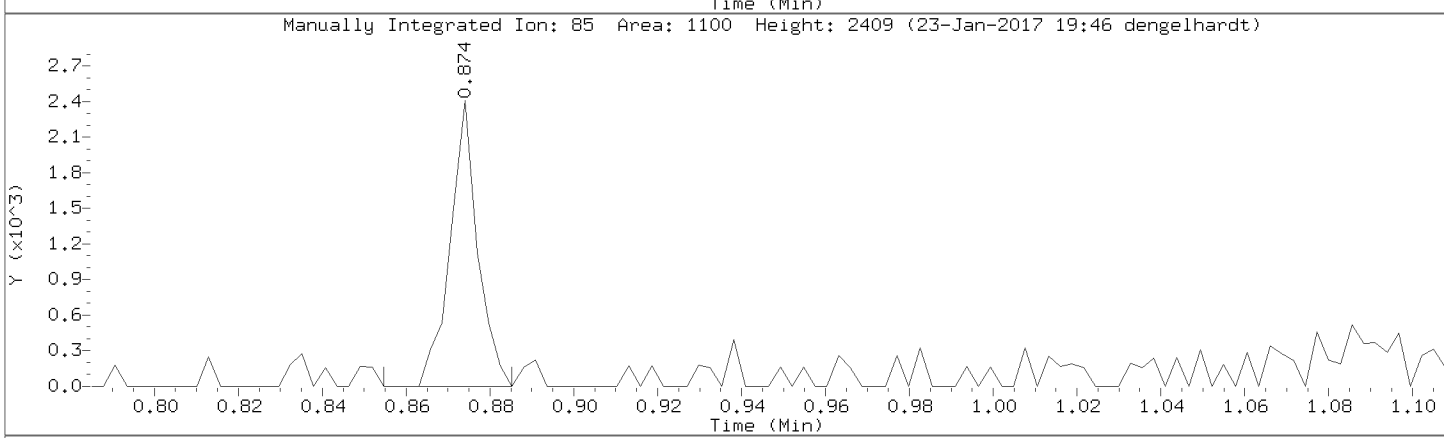
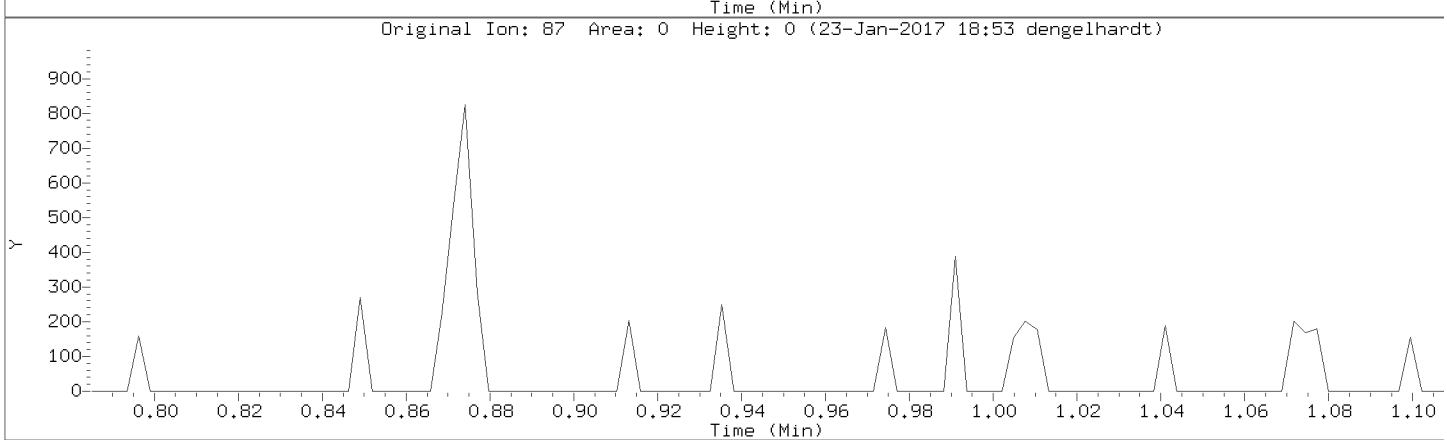
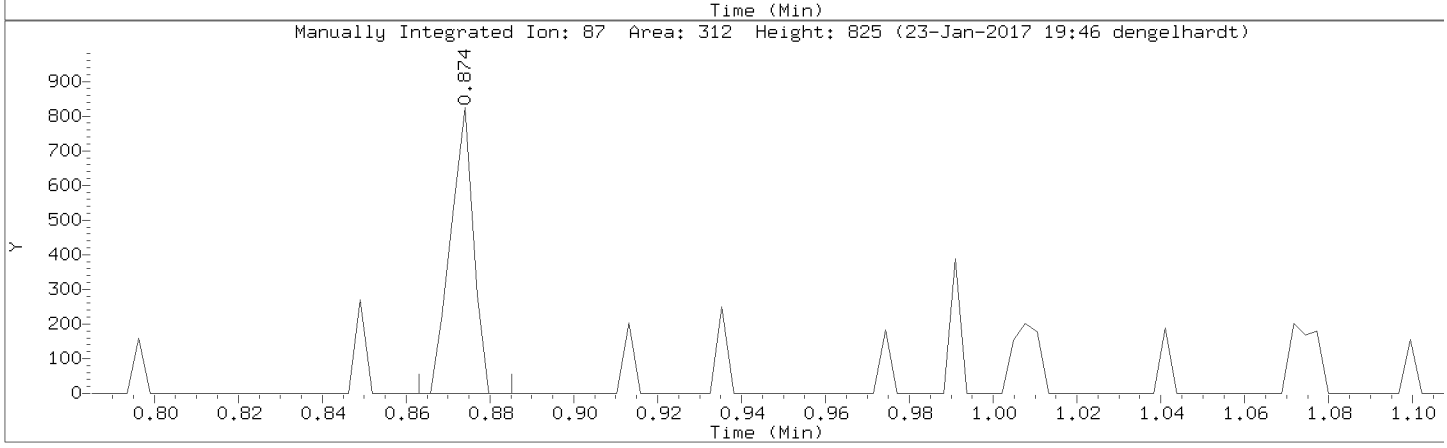
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8









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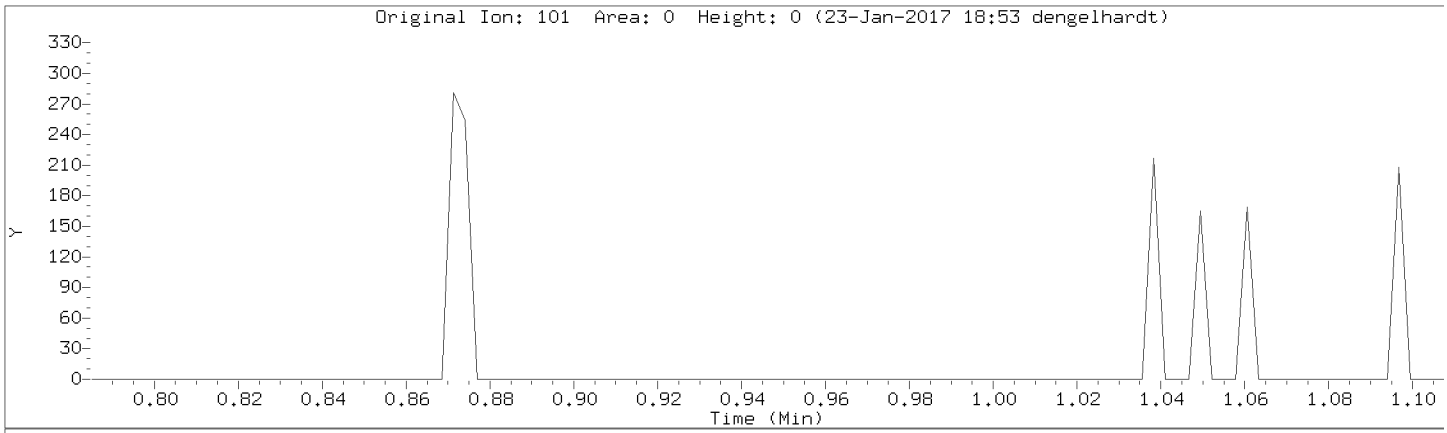

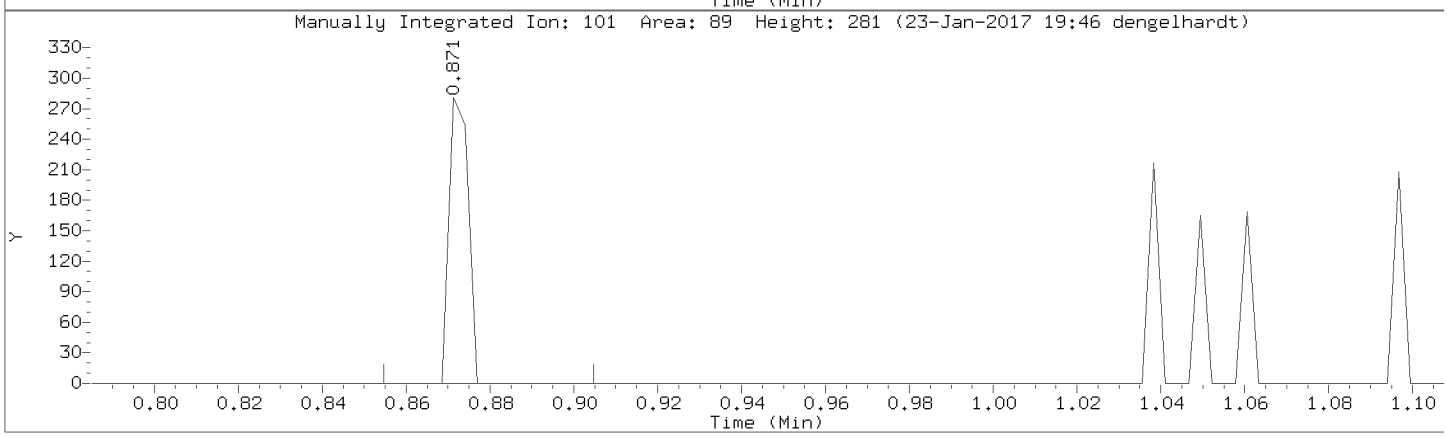

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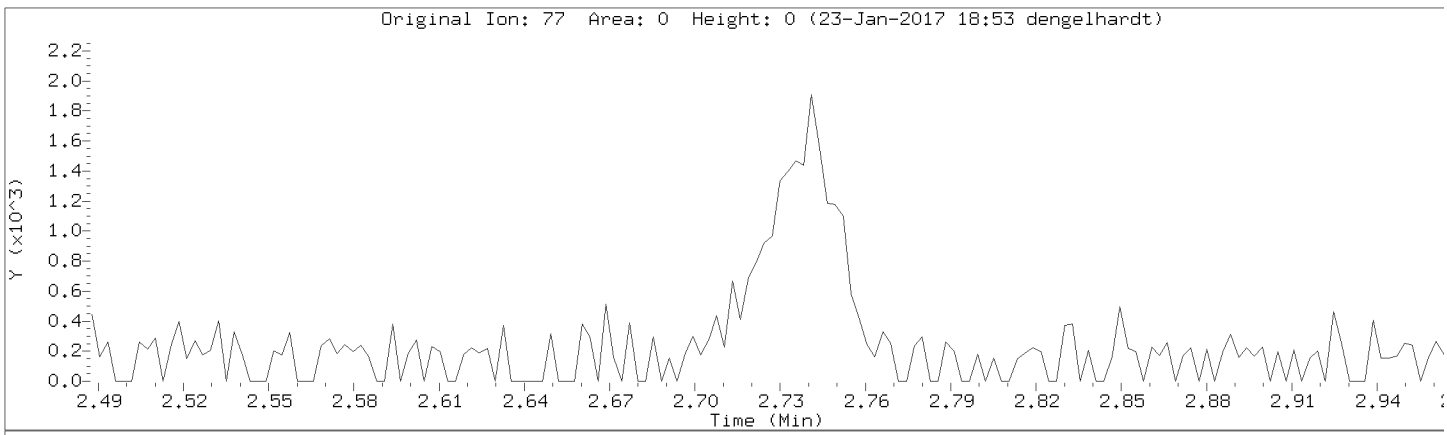
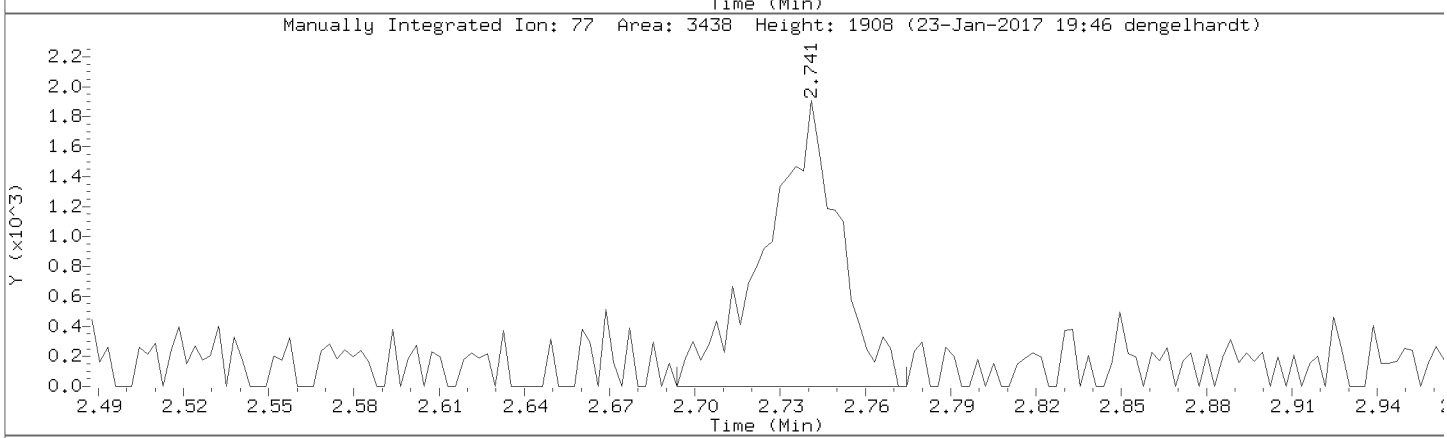
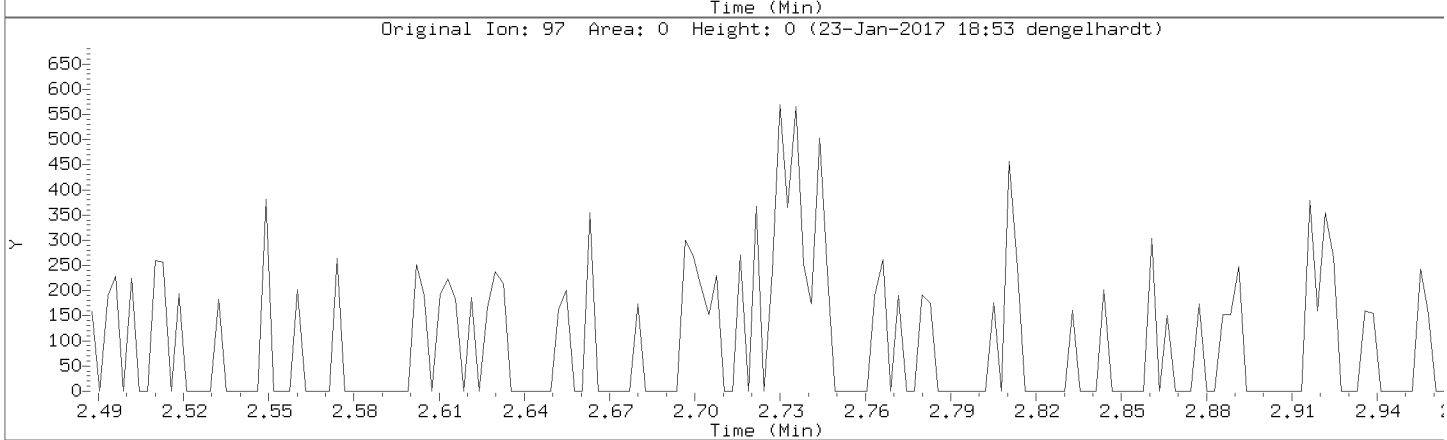
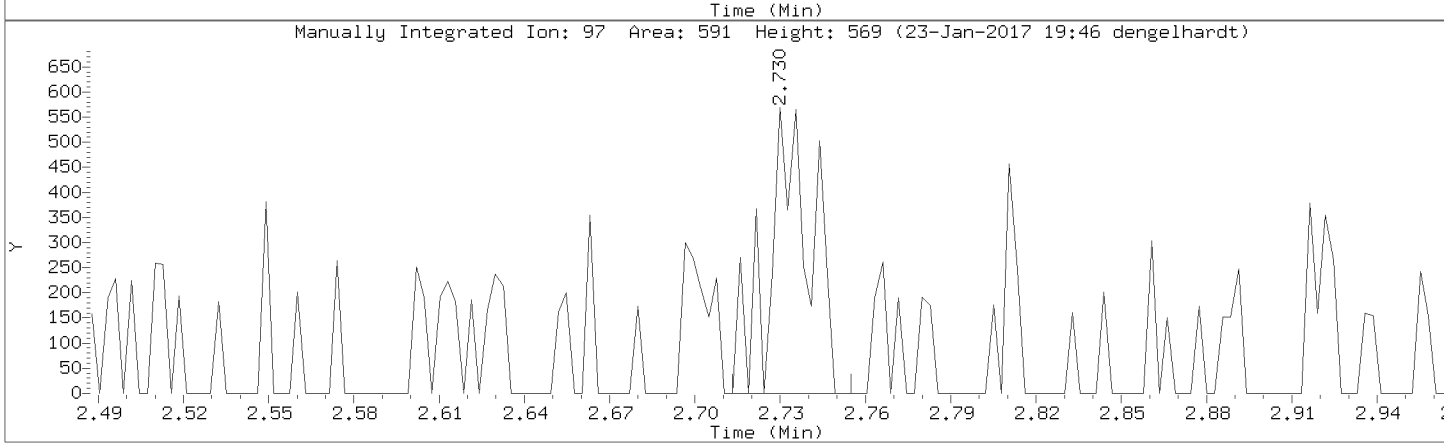
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7









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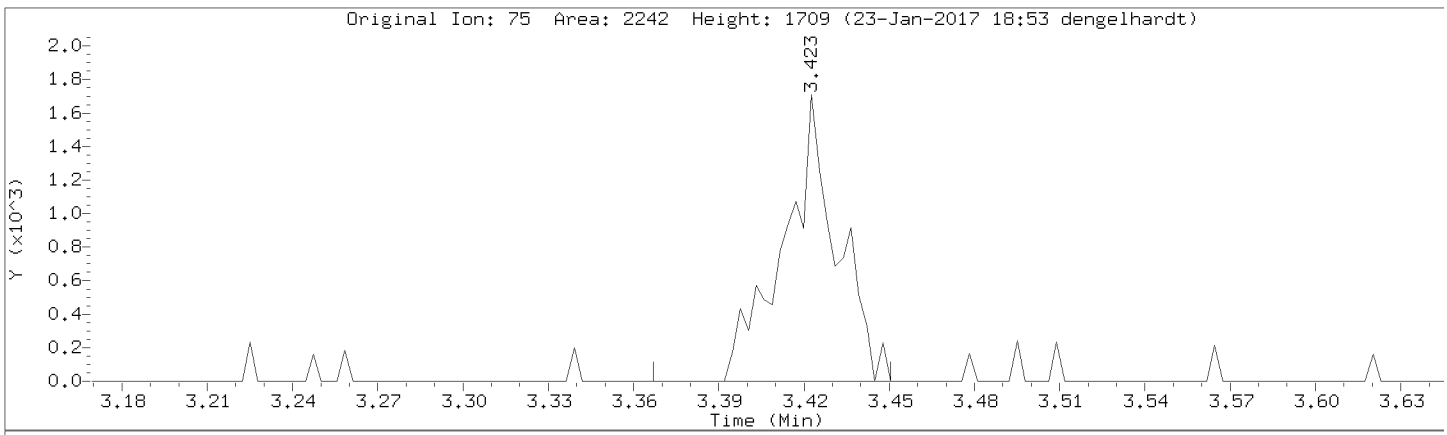
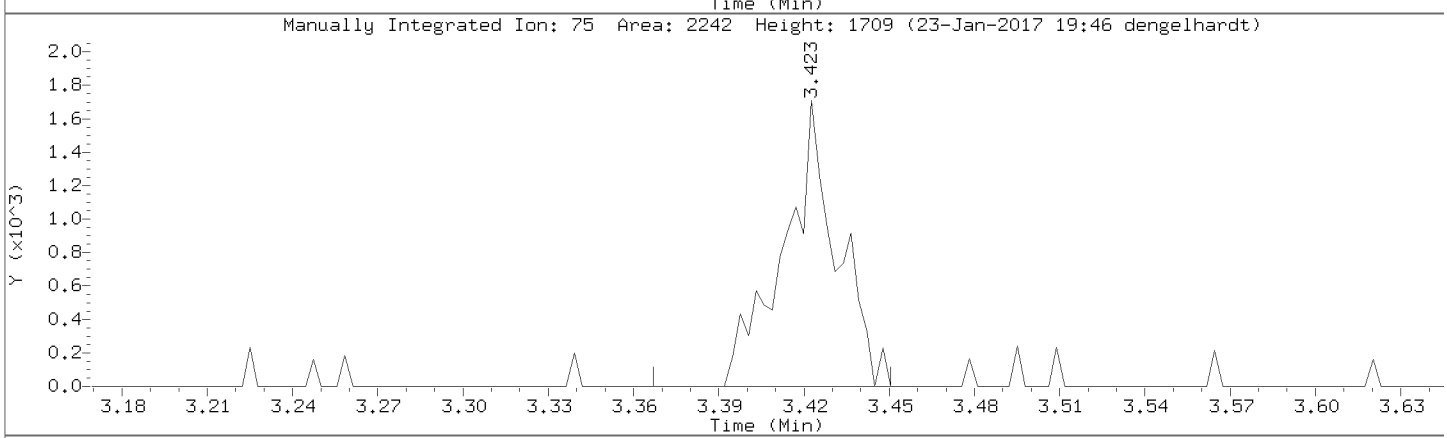
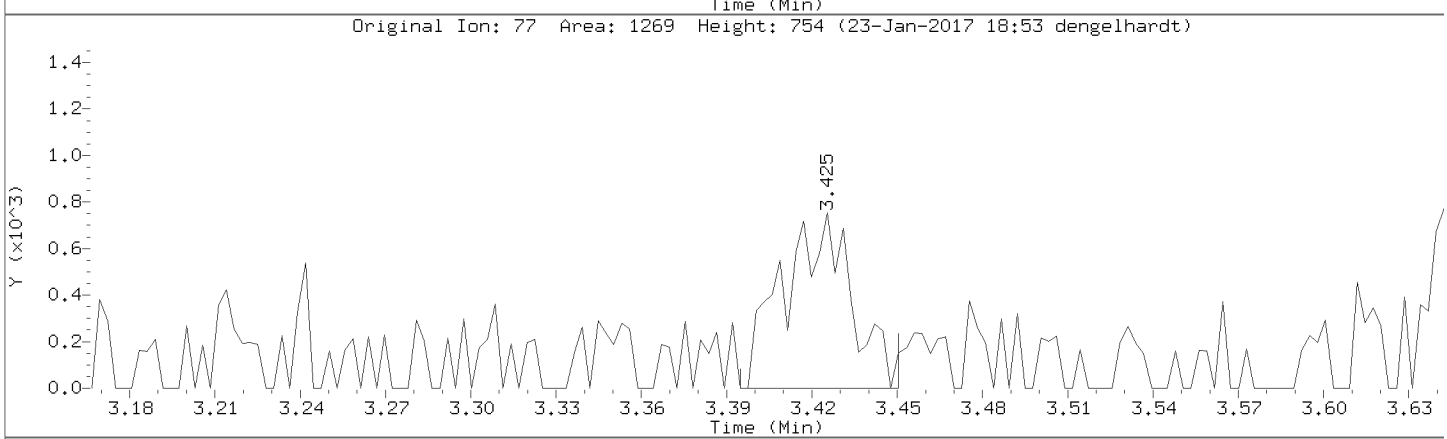
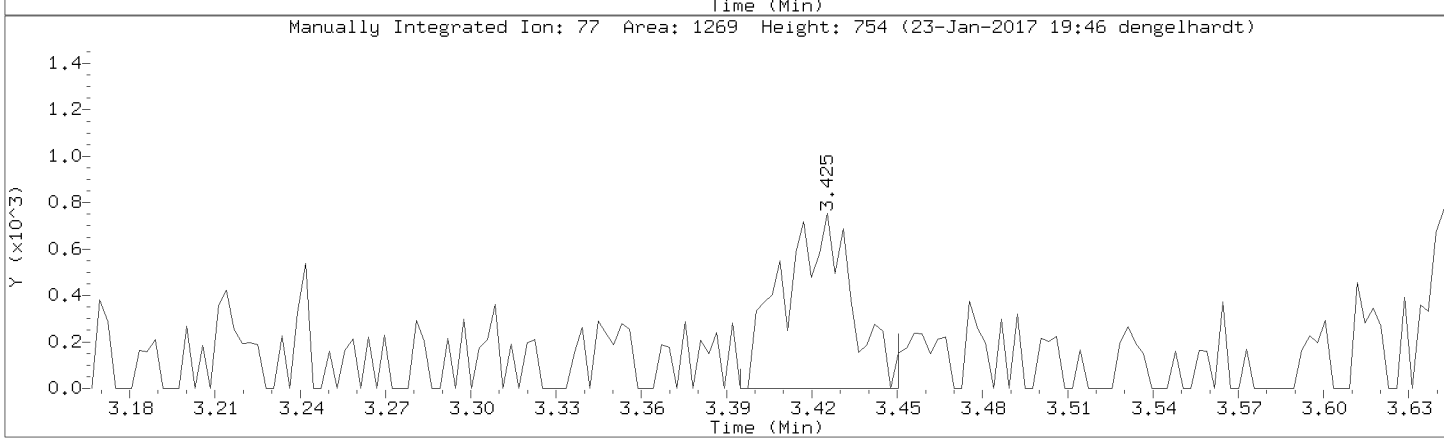
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1-Dichloropropene Review Code: WP
CAS Number: 563-58-6









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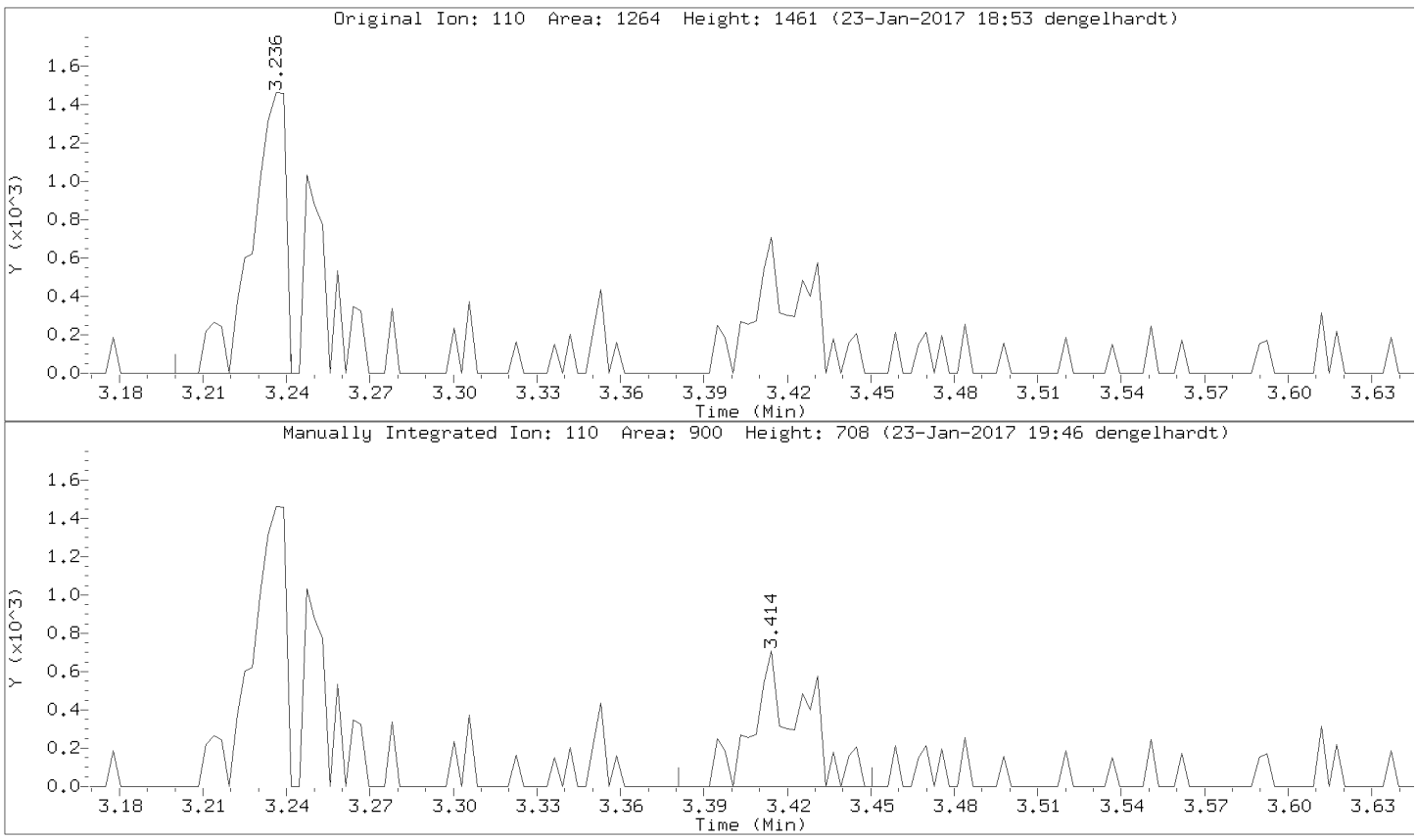
Lab Sample ID: 8260-CAL1,140426:0



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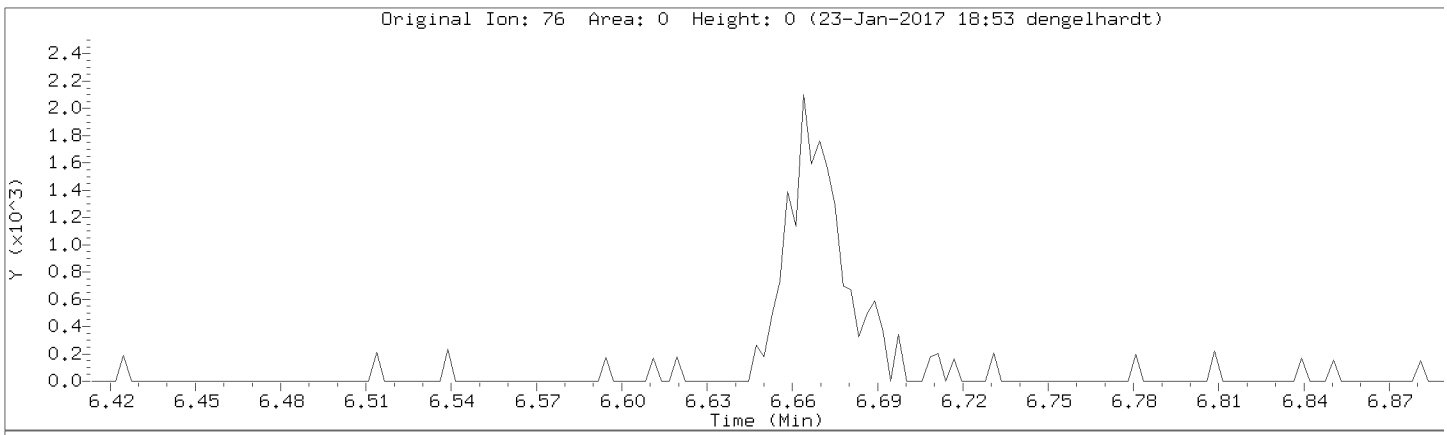
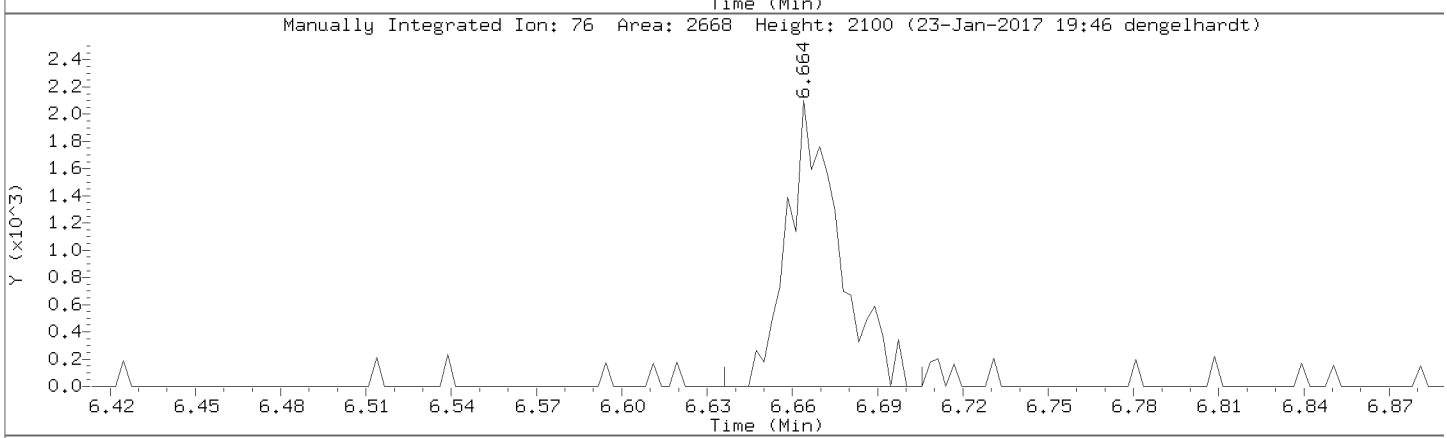
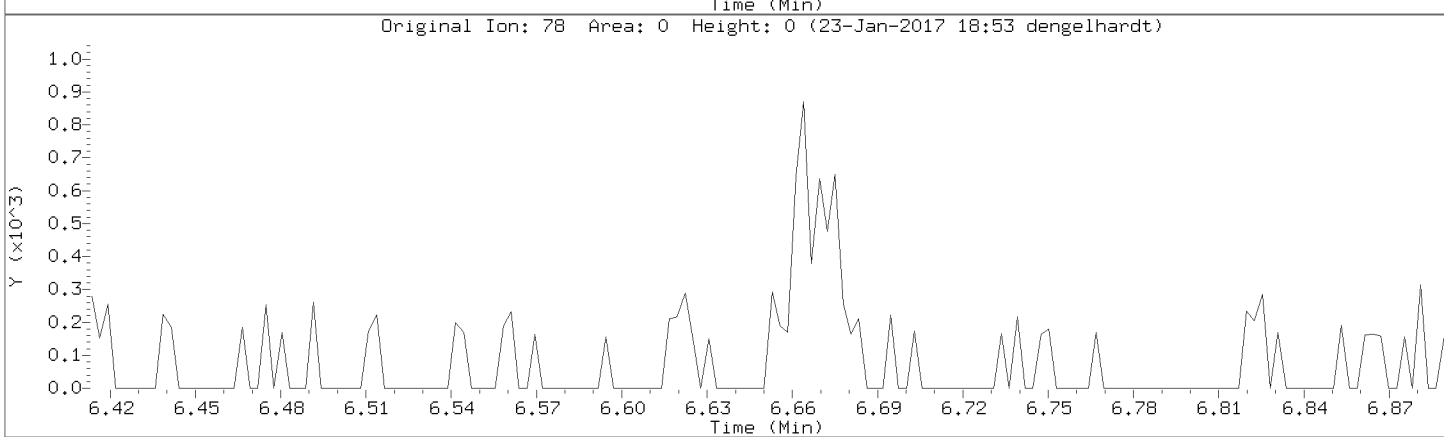
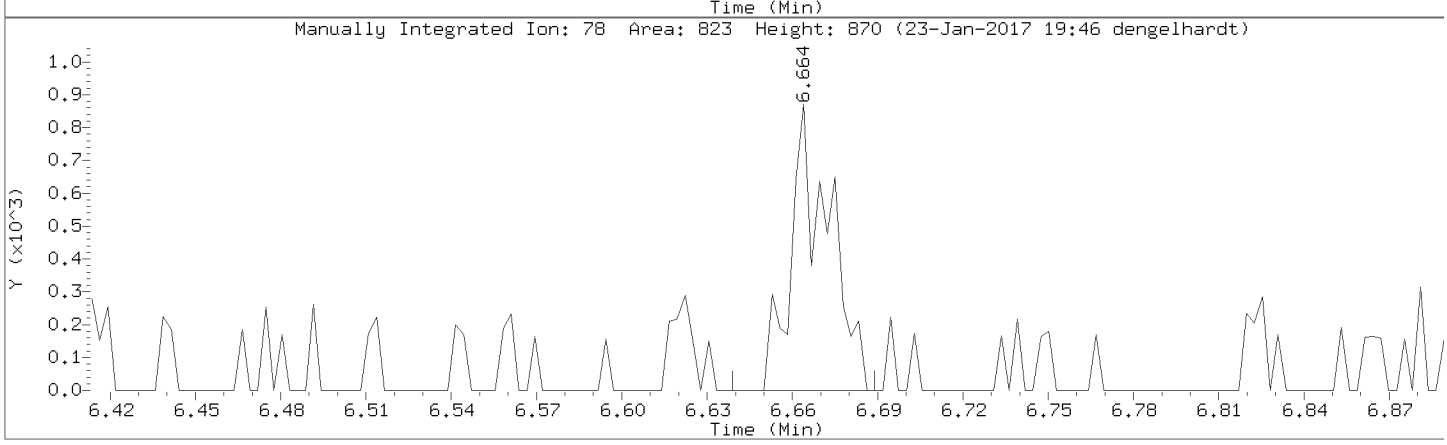
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,3-Dichloropropane Review Code: NI
CAS Number: 142-28-9









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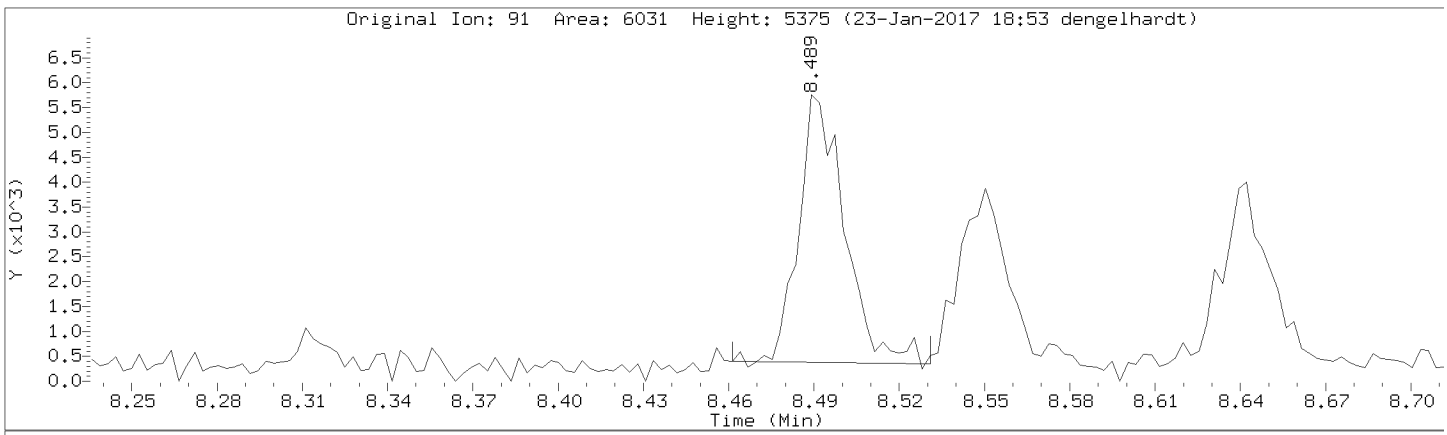
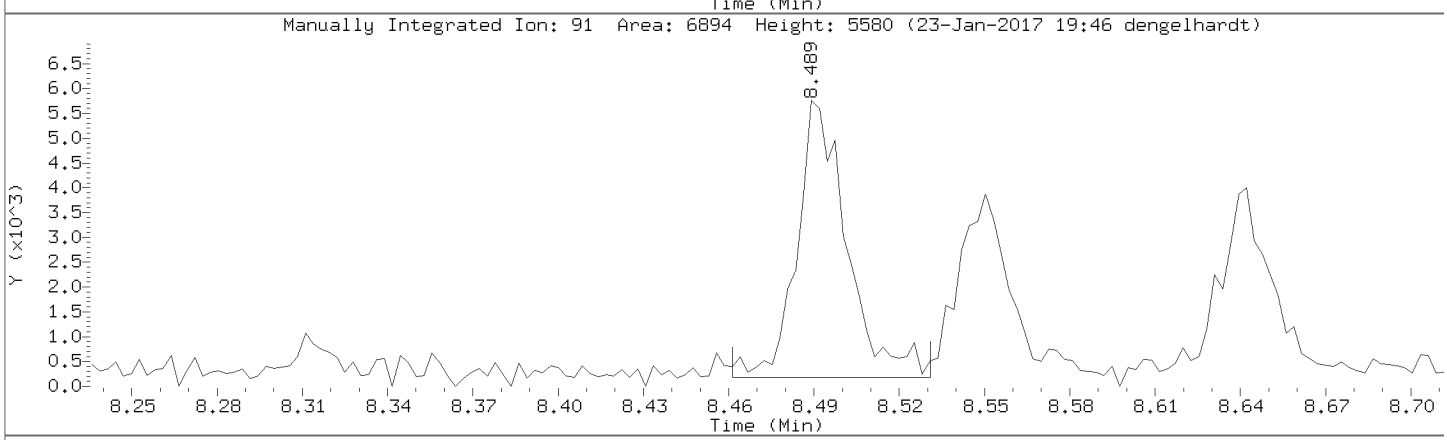
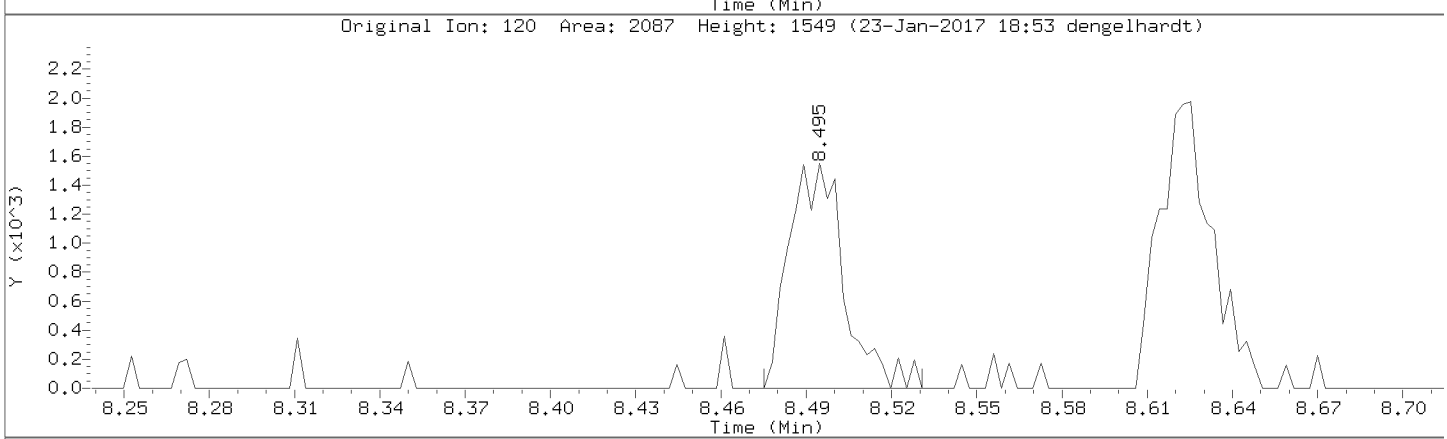
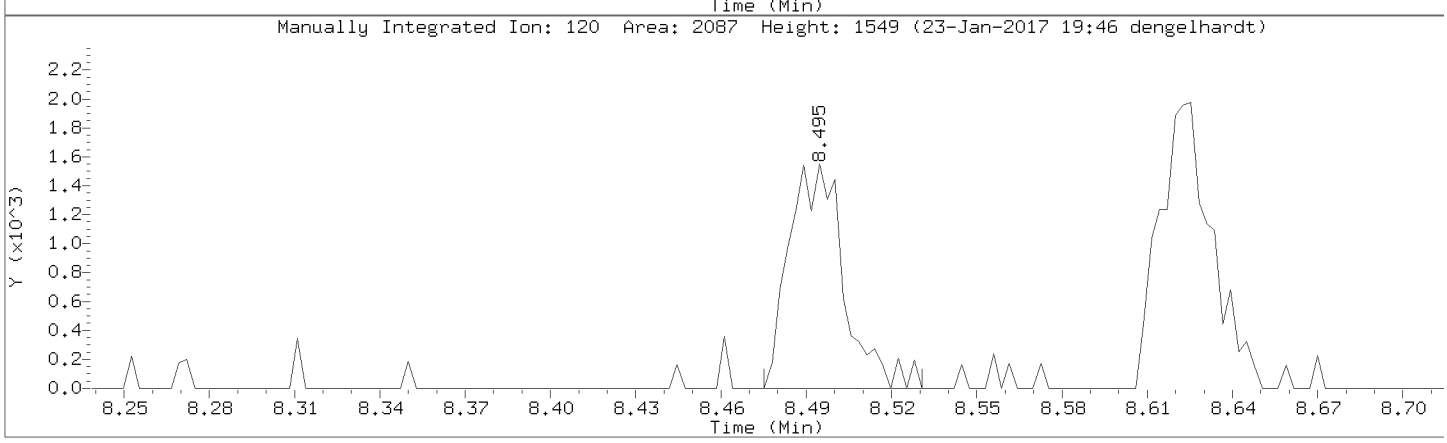
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-Propylbenzene Review Code: LT
CAS Number: 103-65-1









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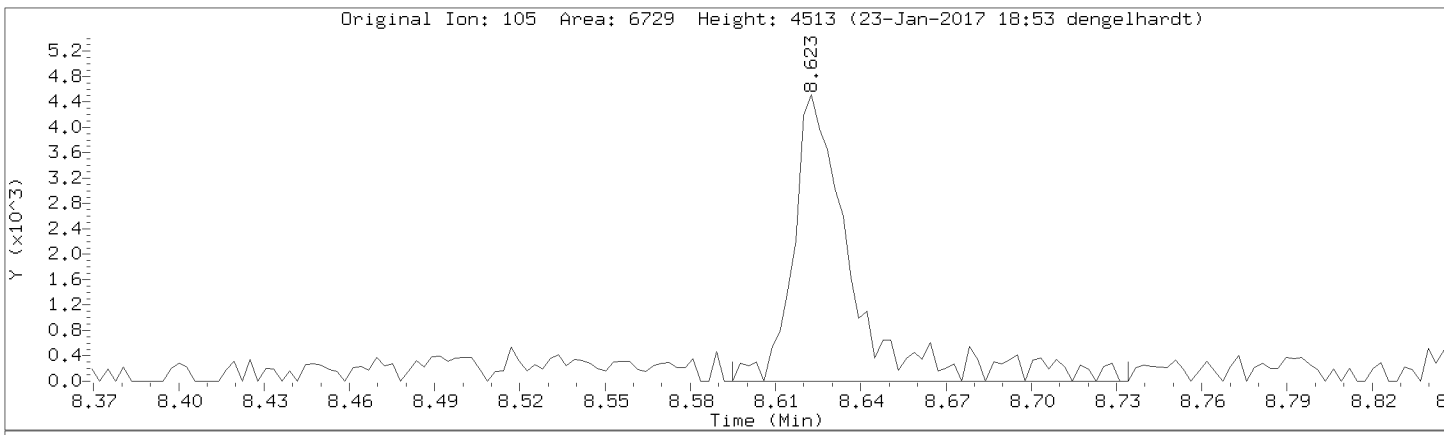
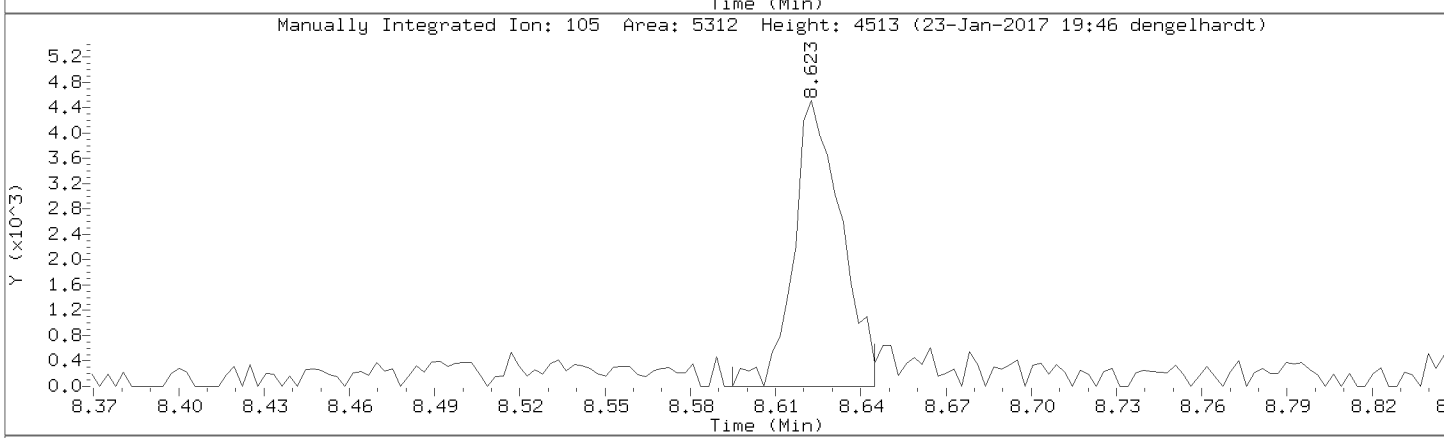
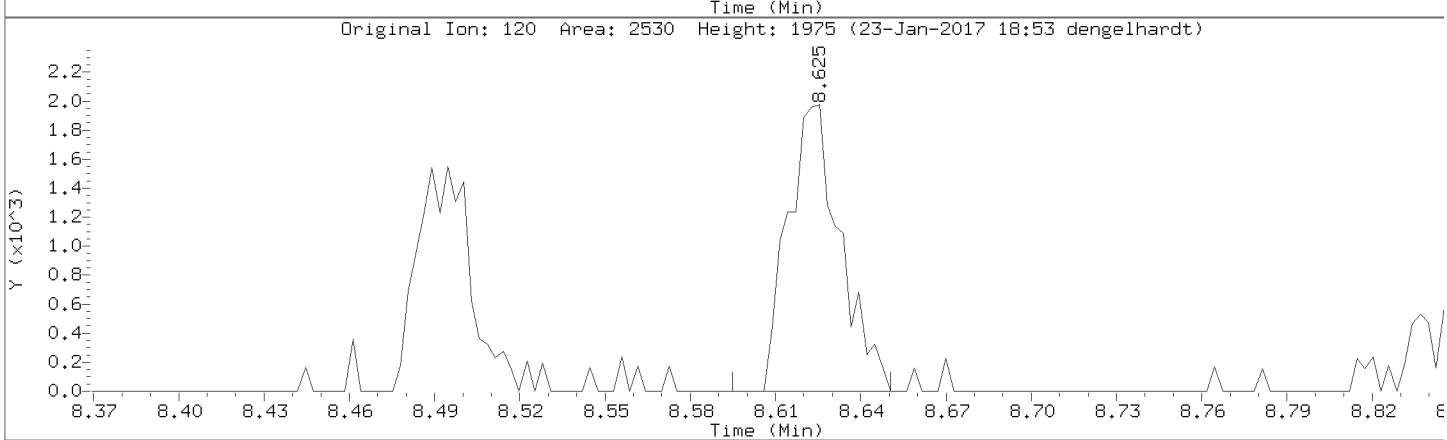
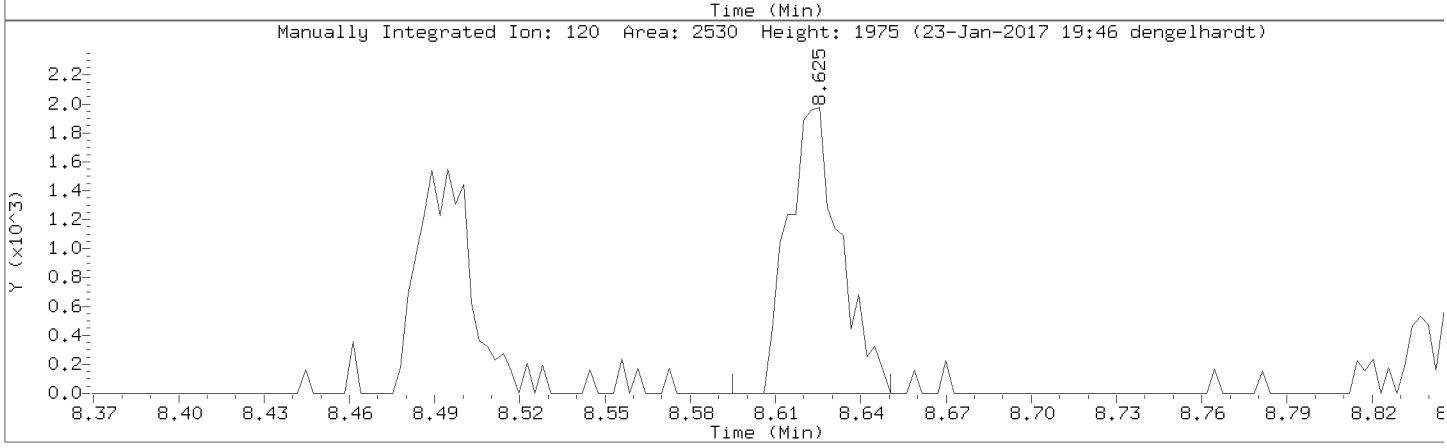
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,3,5-Trimethylbenzene Review Code: GT
CAS Number: 108-67-8









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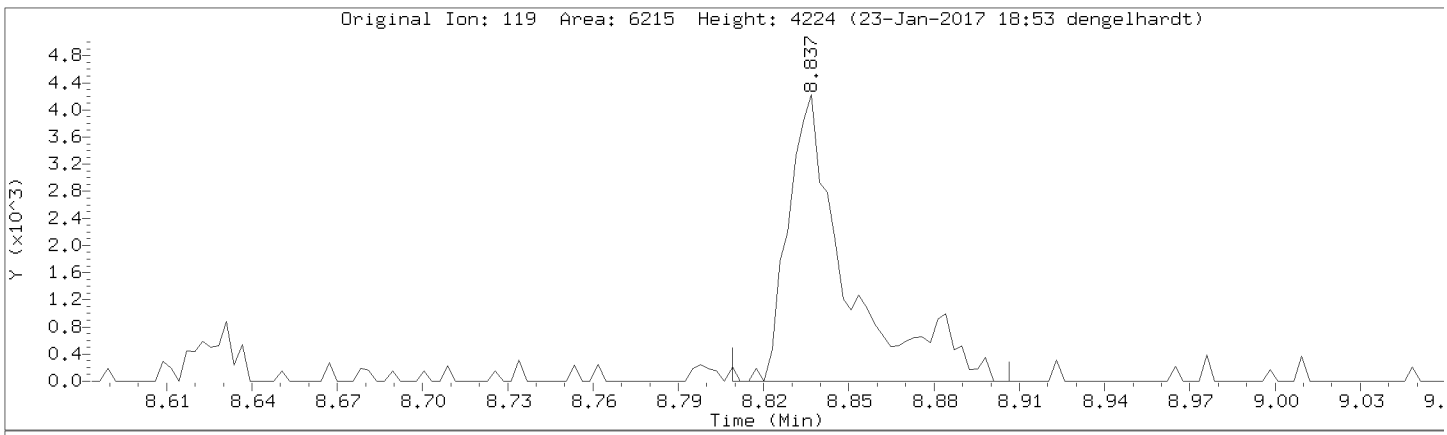
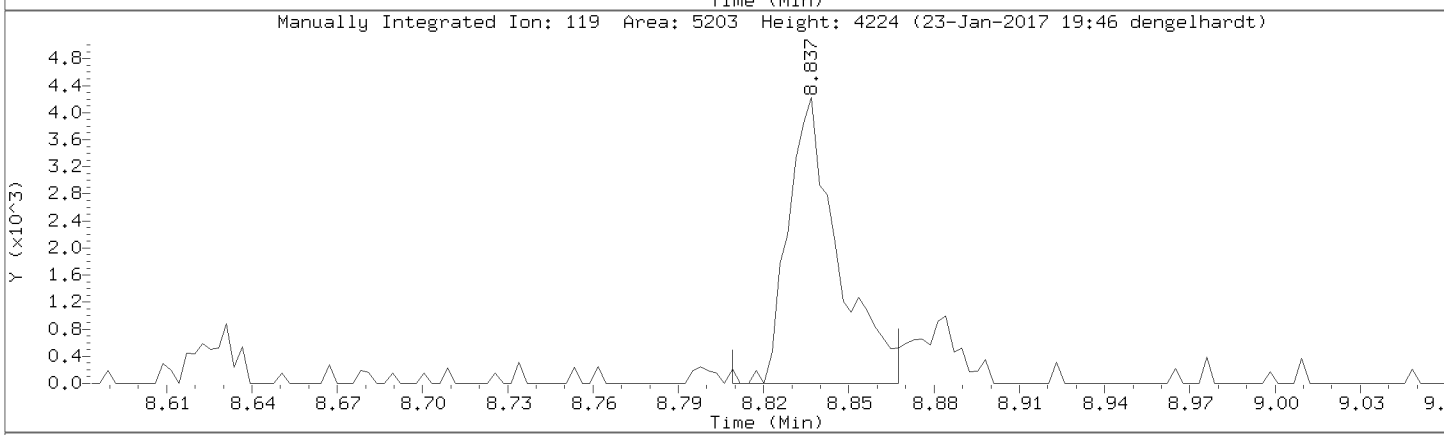
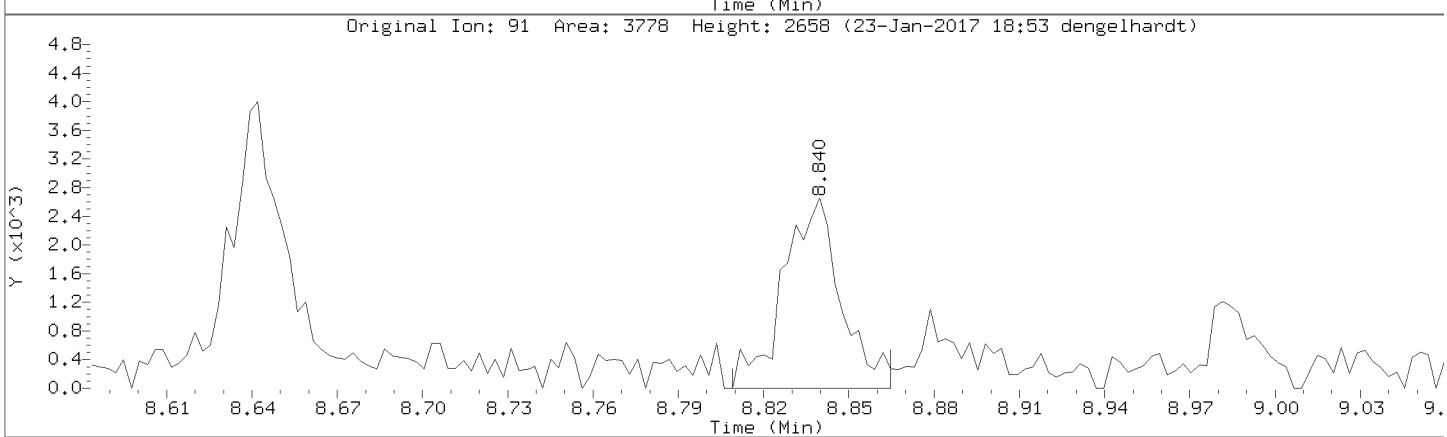
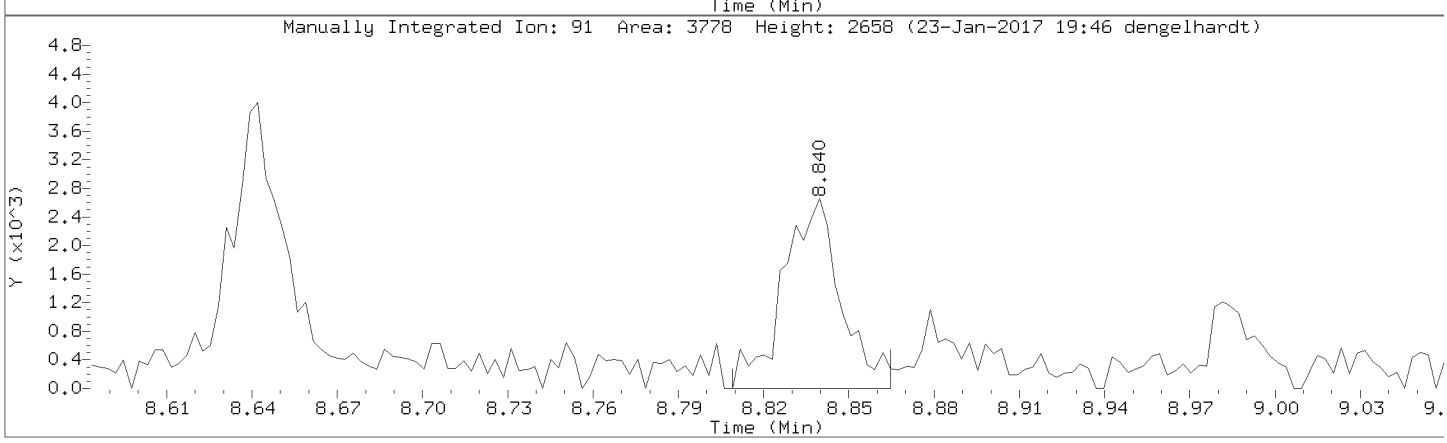
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: tert-Butylbenzene Review Code: GT
CAS Number: 98-06-6









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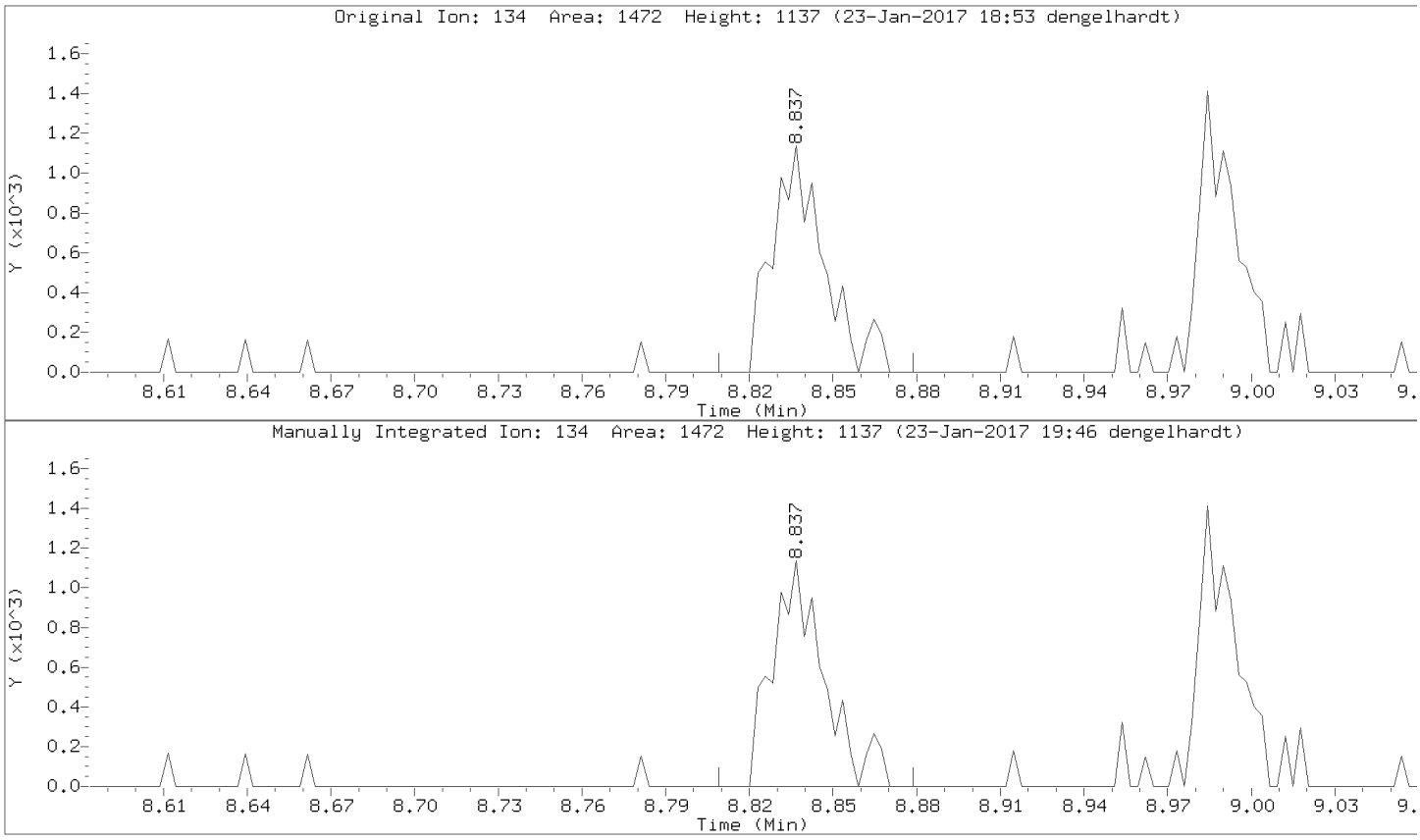
Lab Sample ID: 8260-CAL1,140426:0



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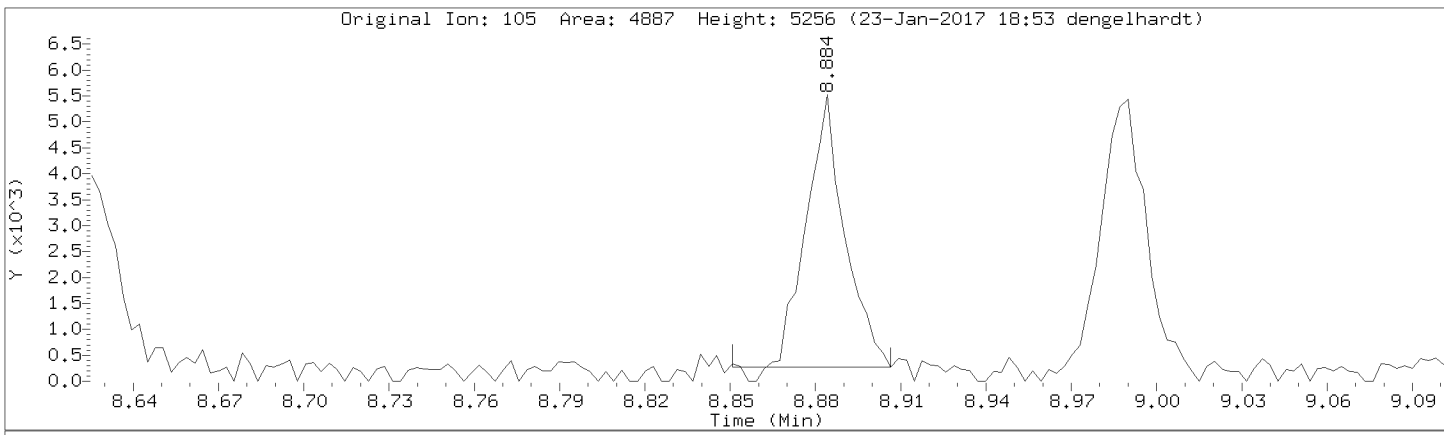
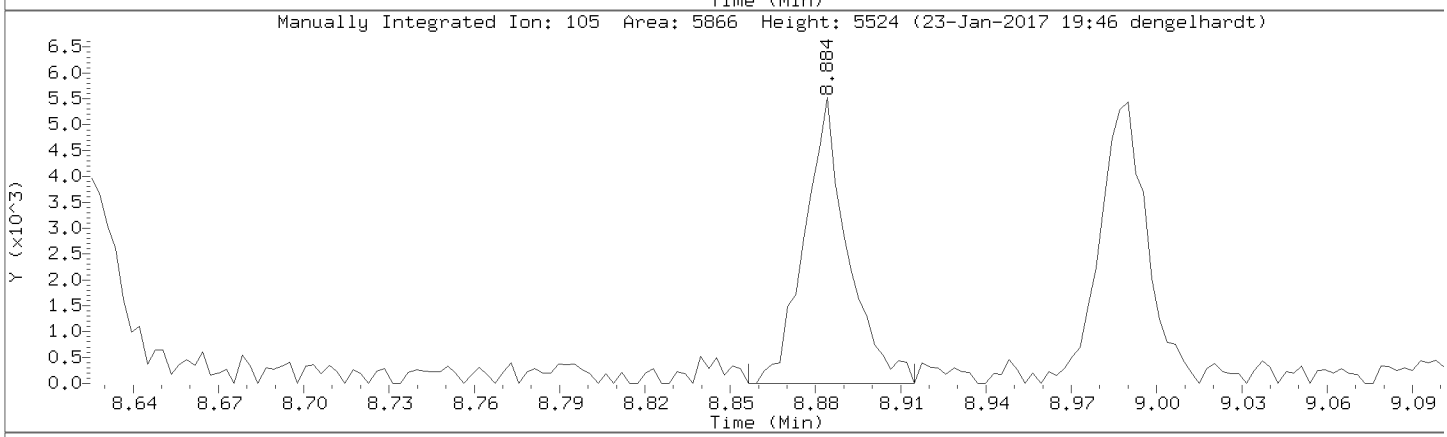
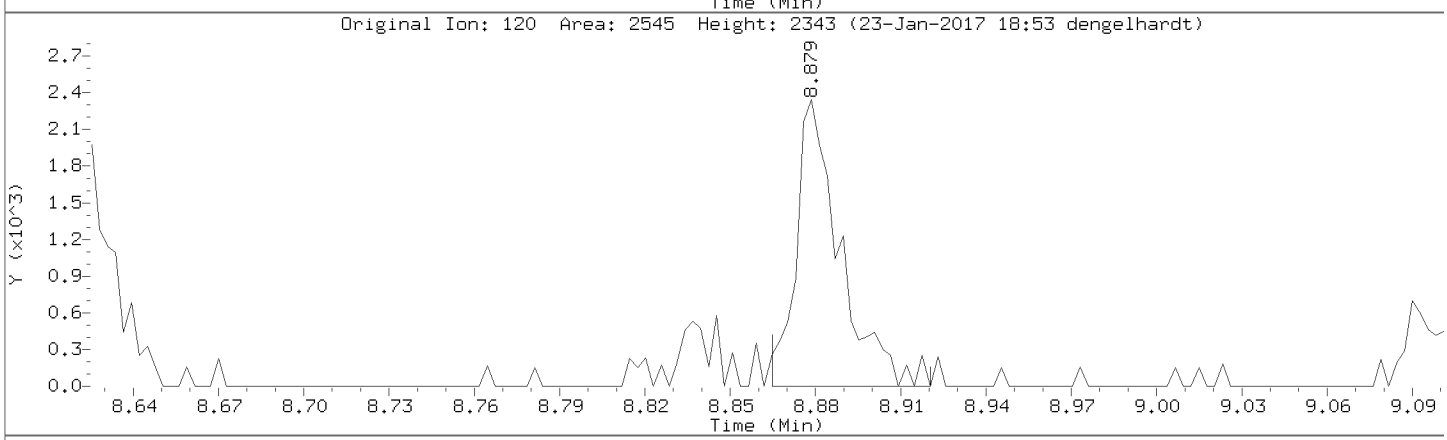
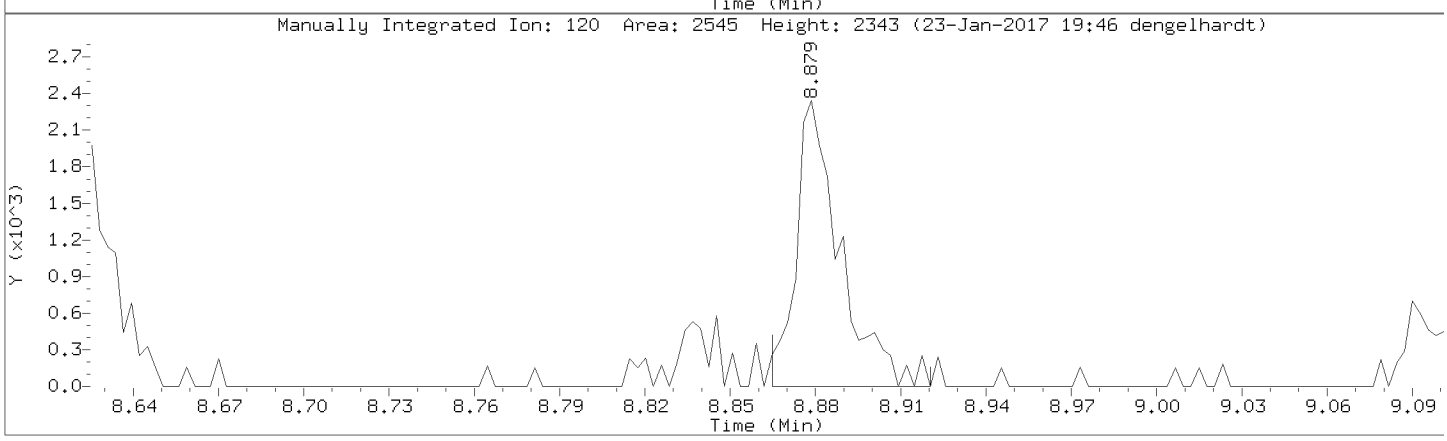
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,4-Trimethylbenzene Review Code: LT
CAS Number: 95-63-6









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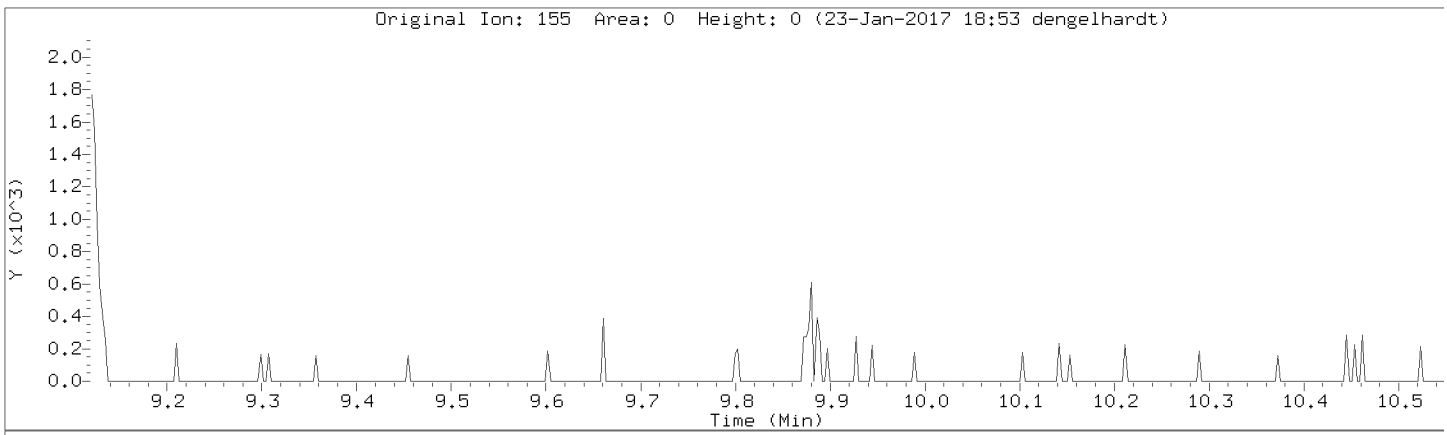
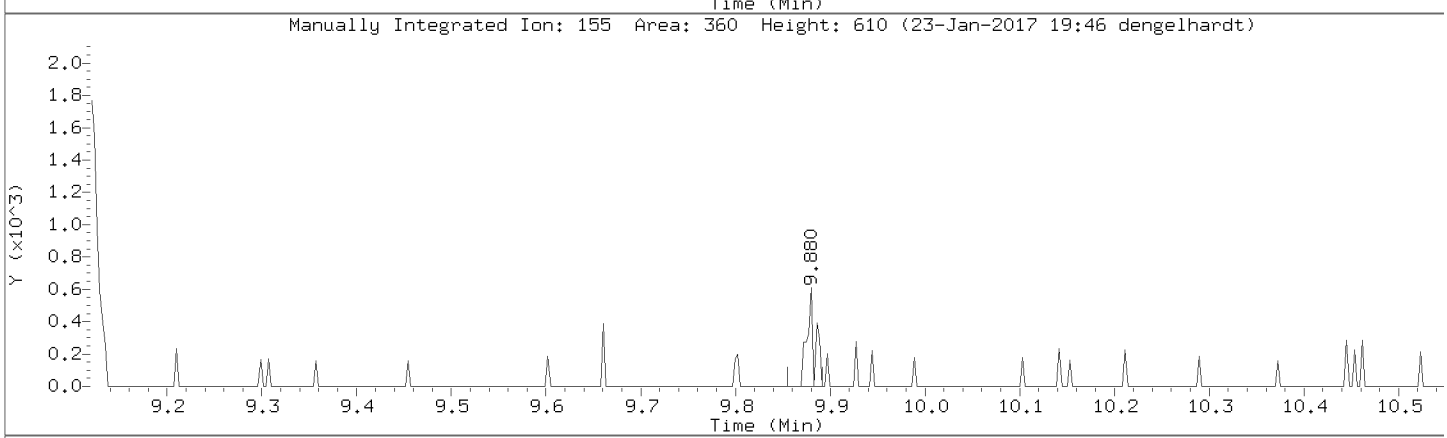
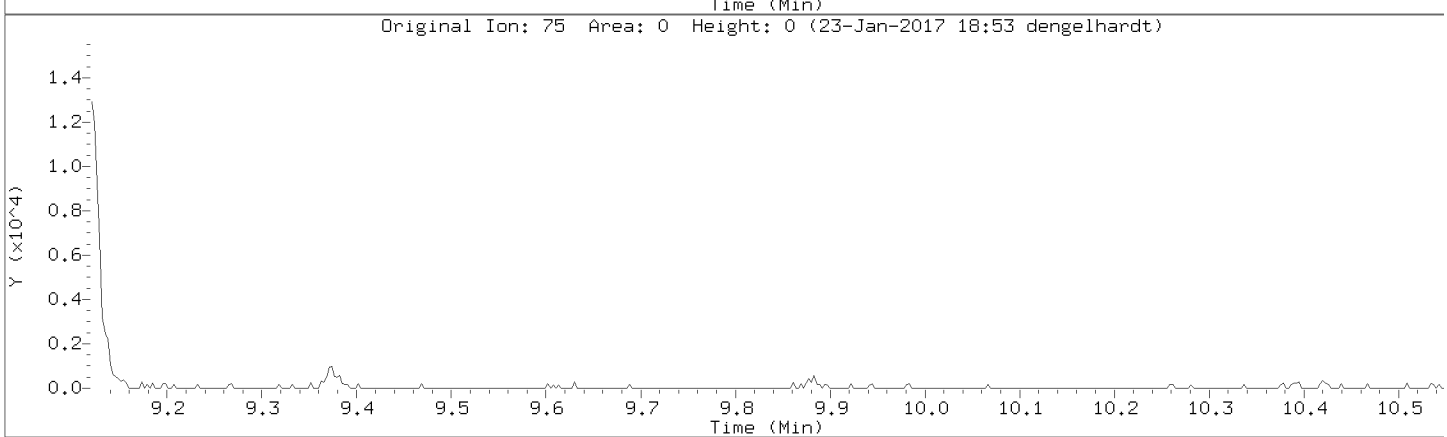
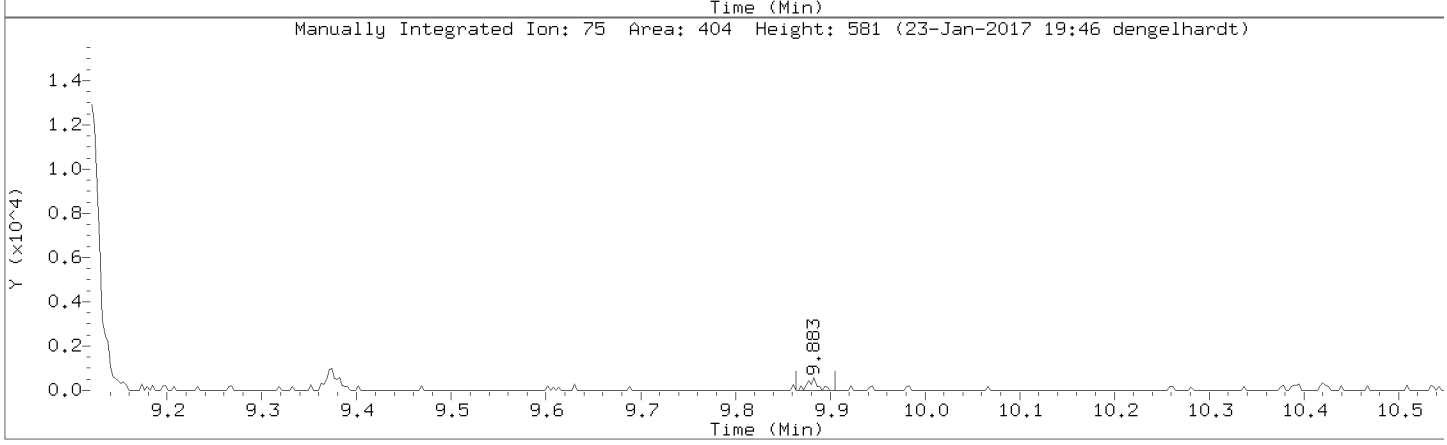
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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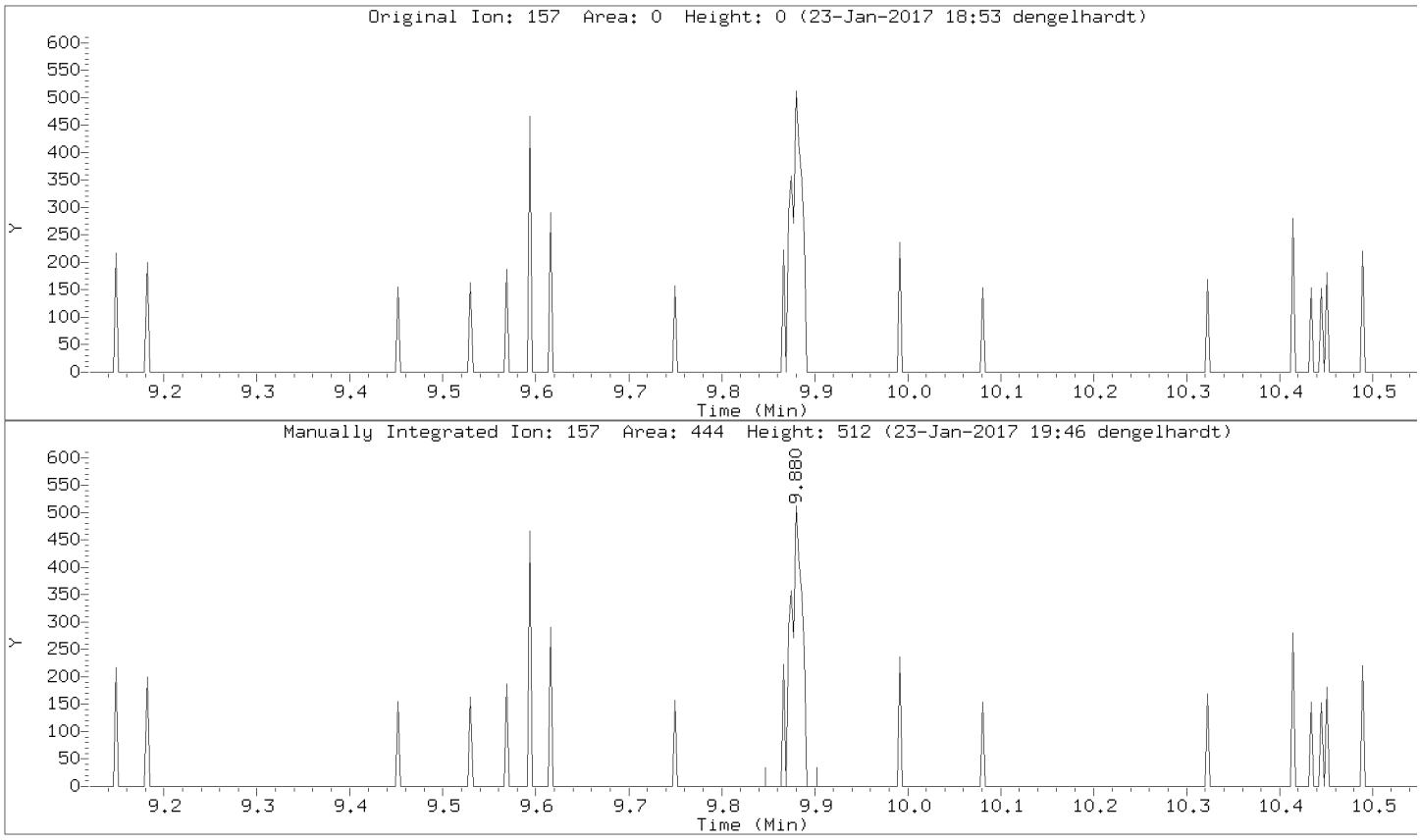
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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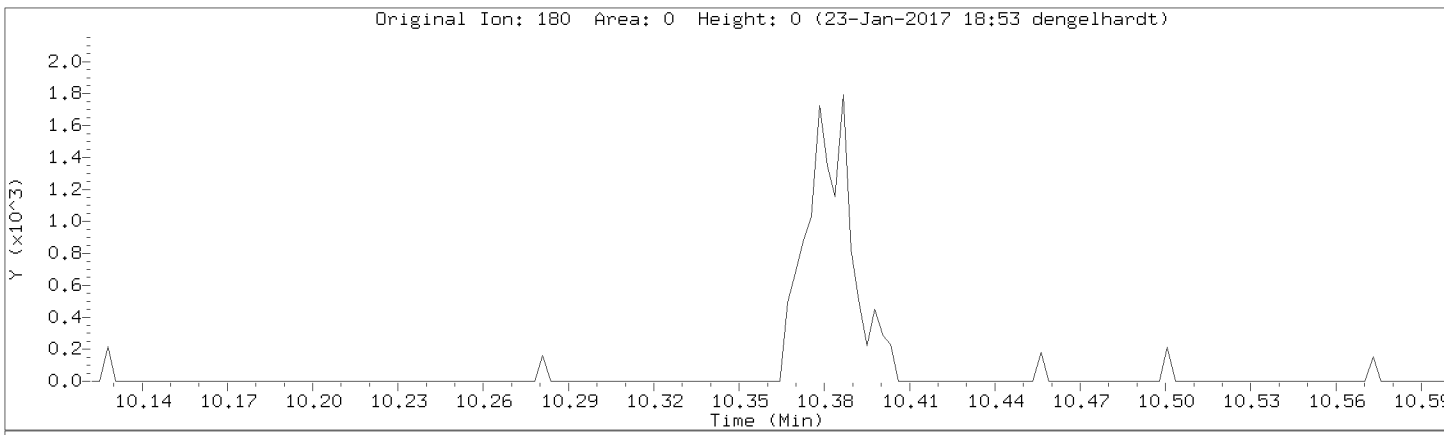
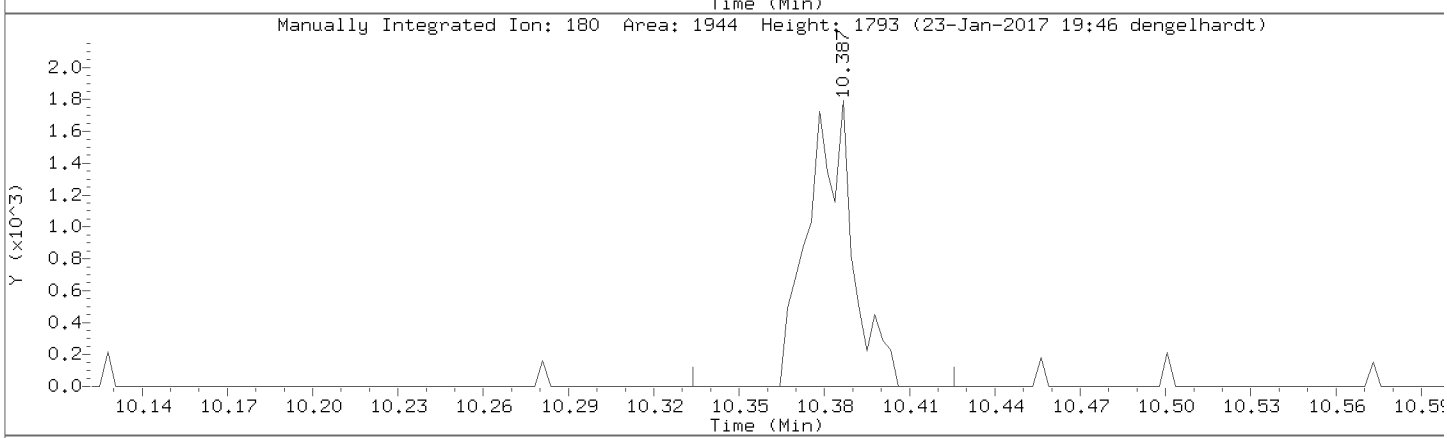
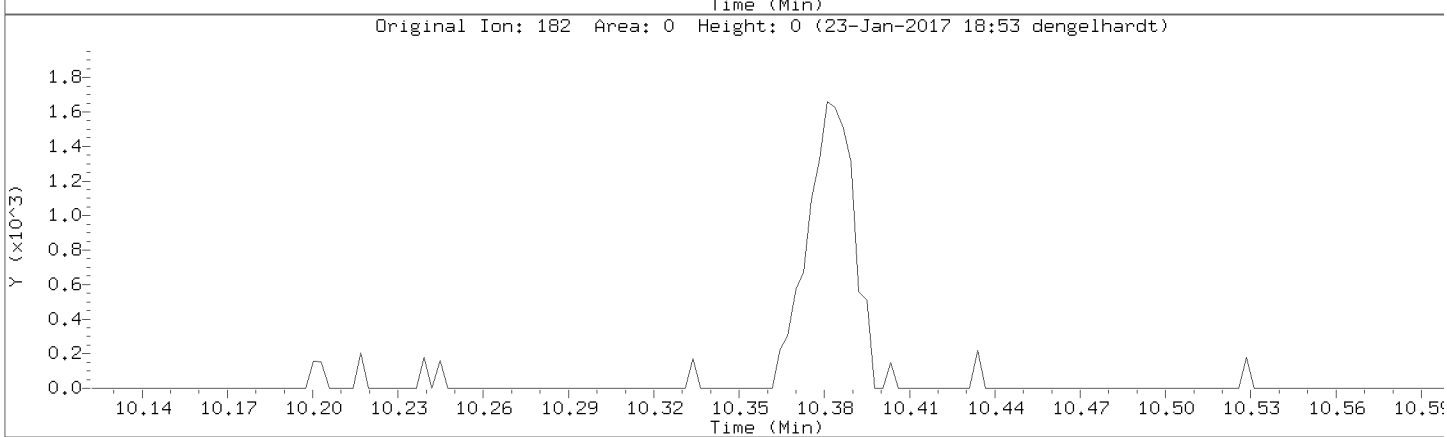
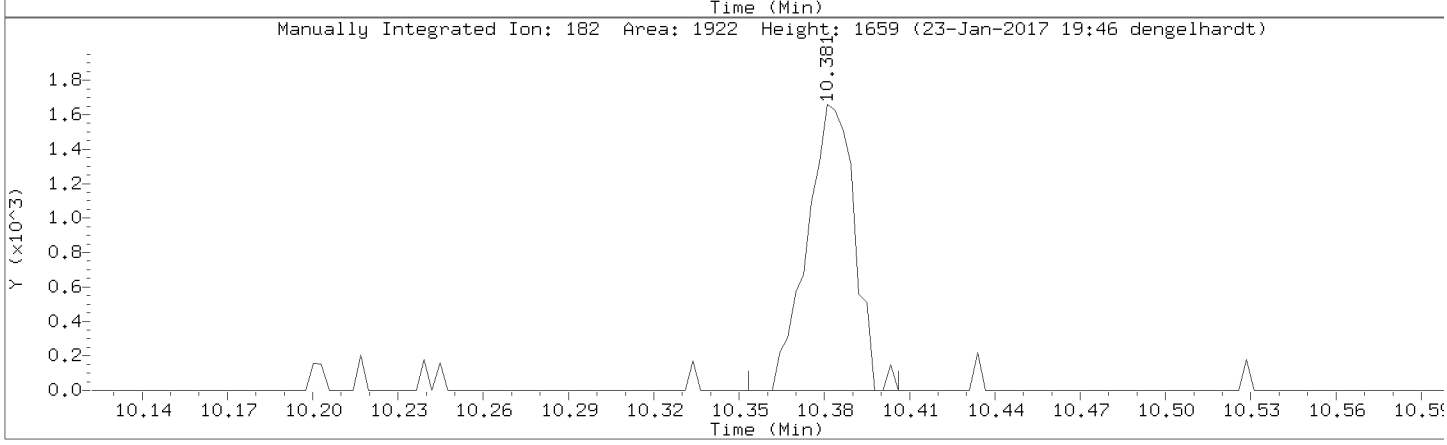
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1









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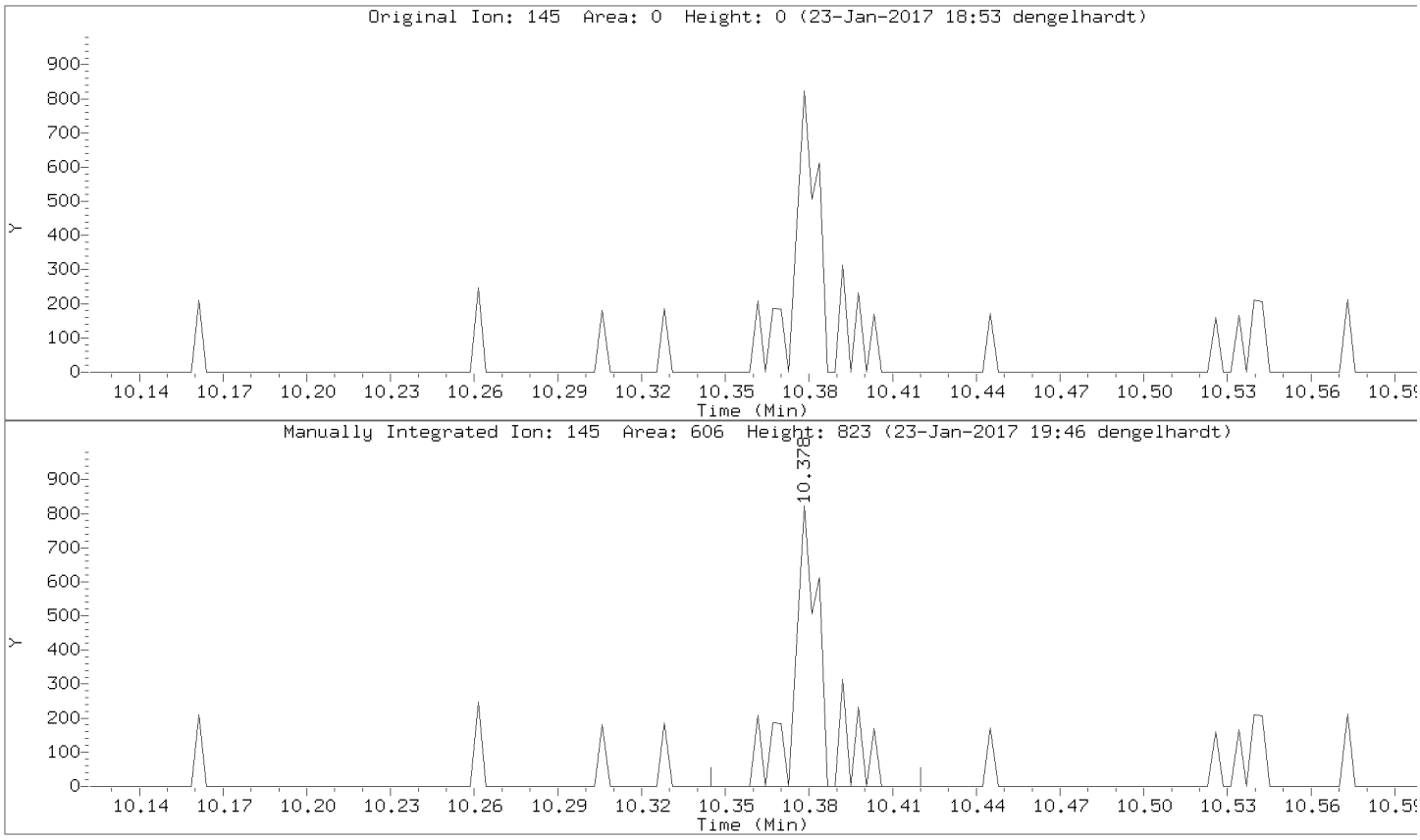
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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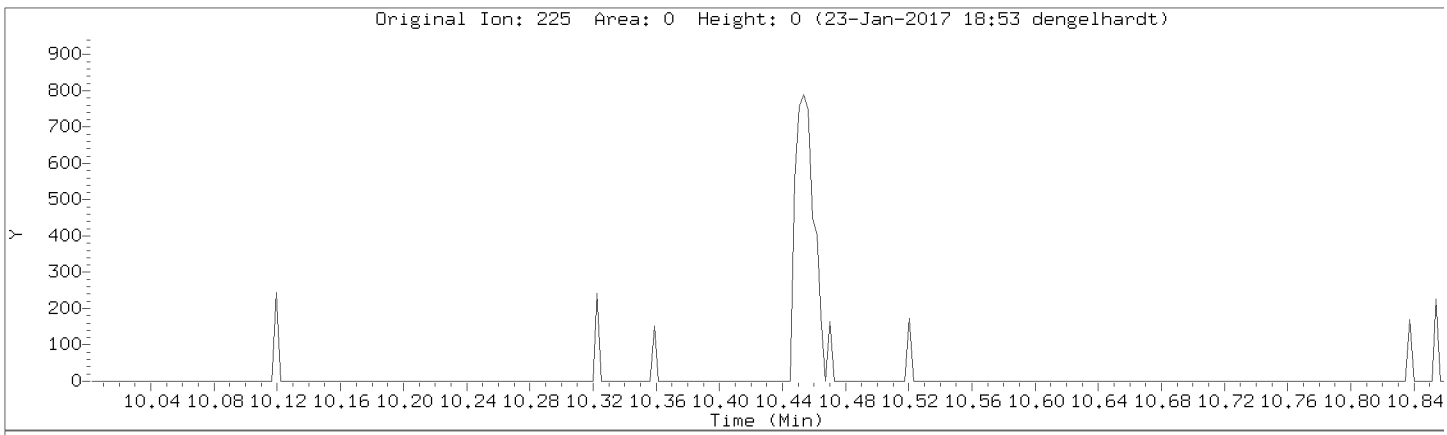
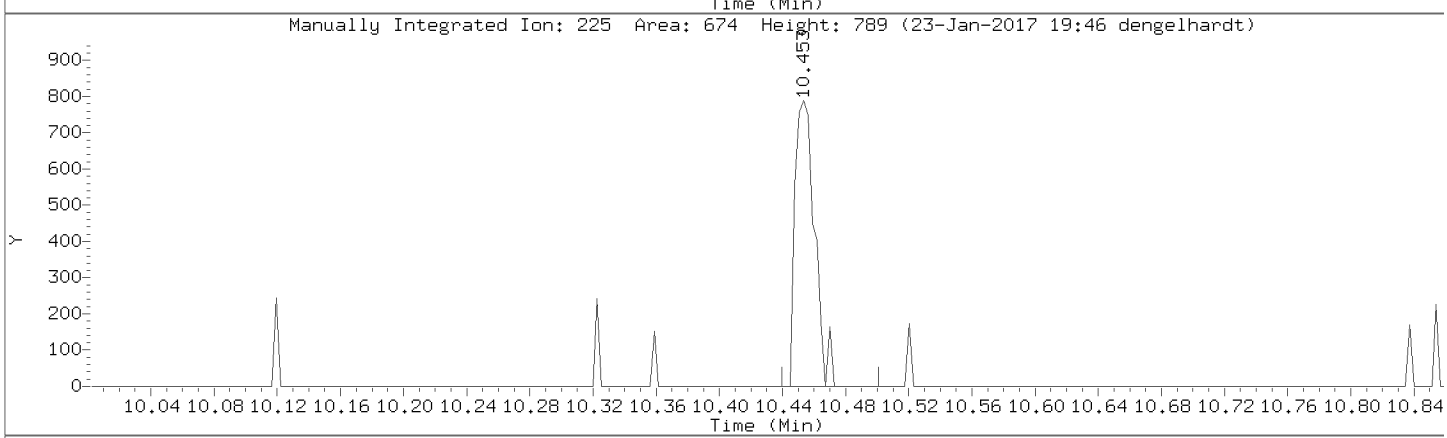
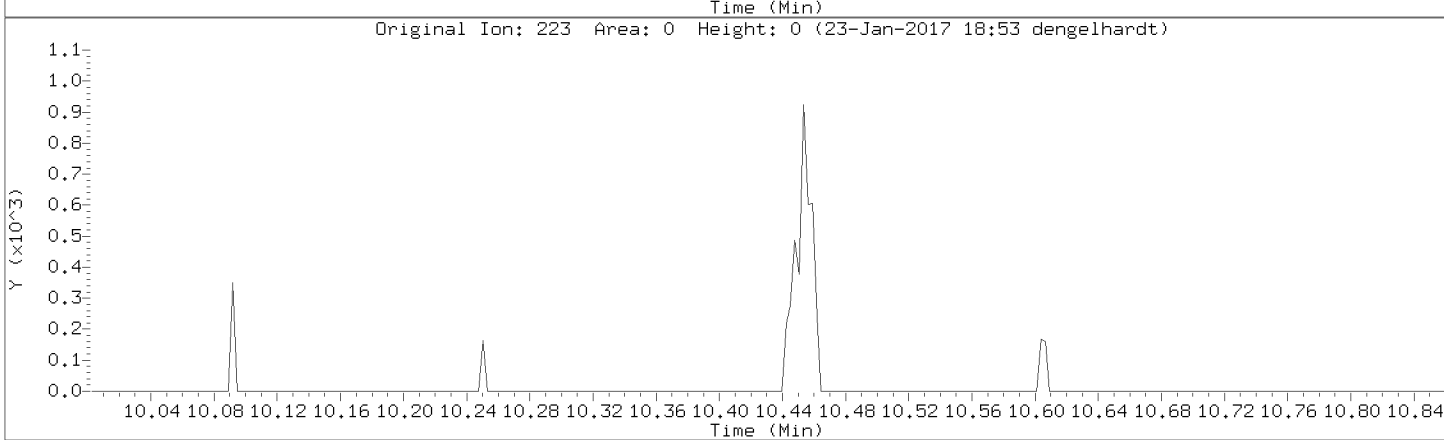
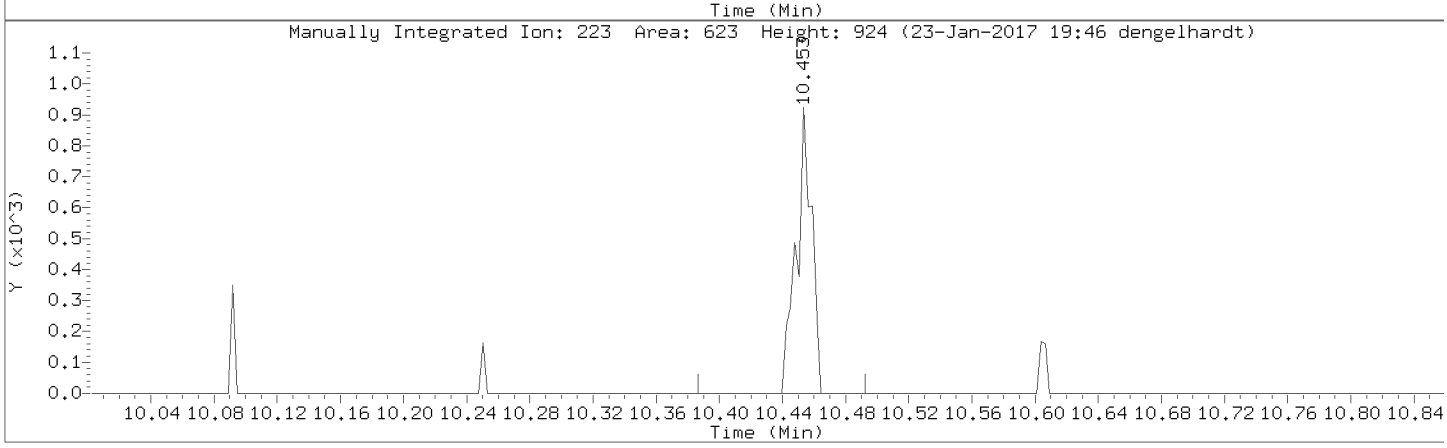
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3









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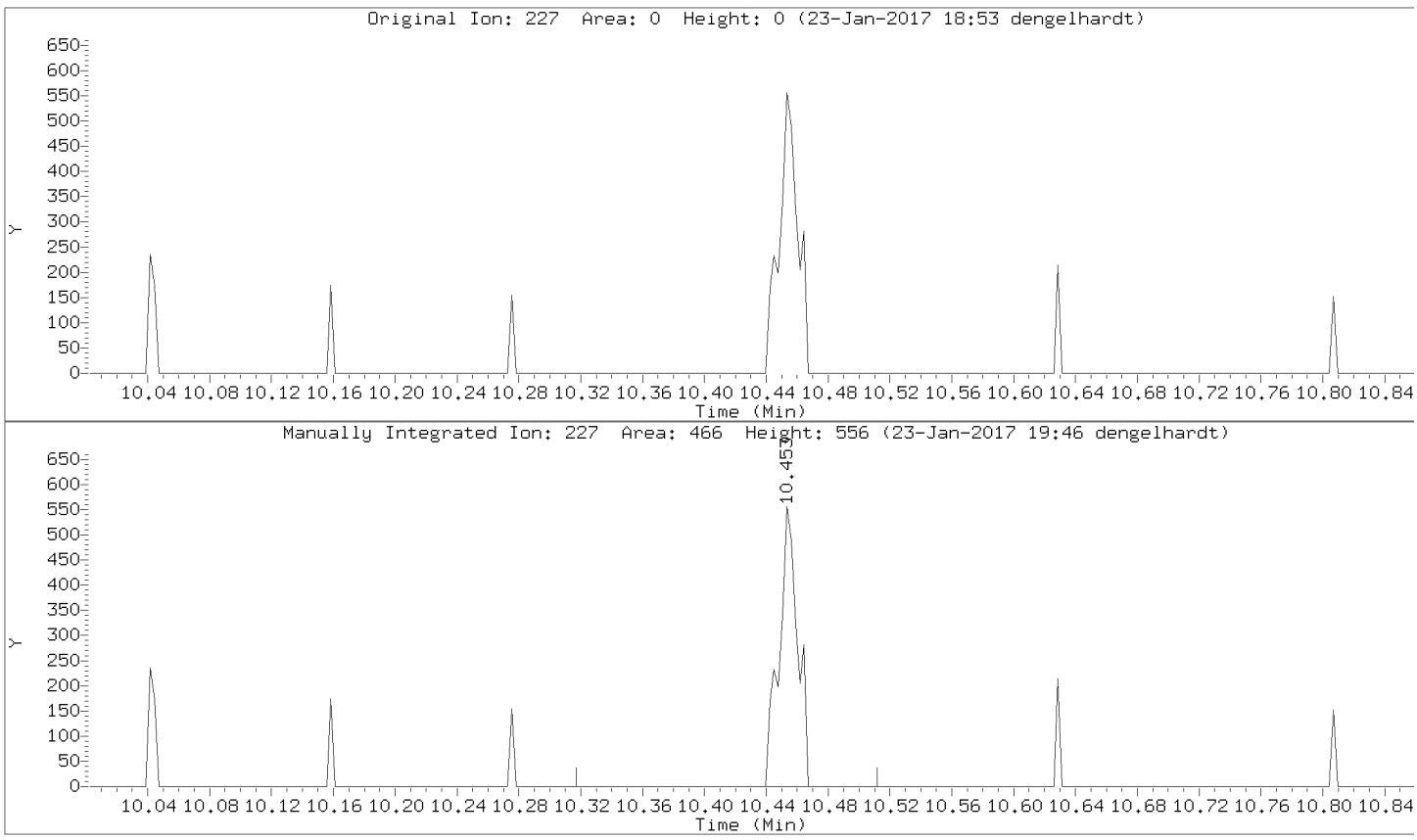
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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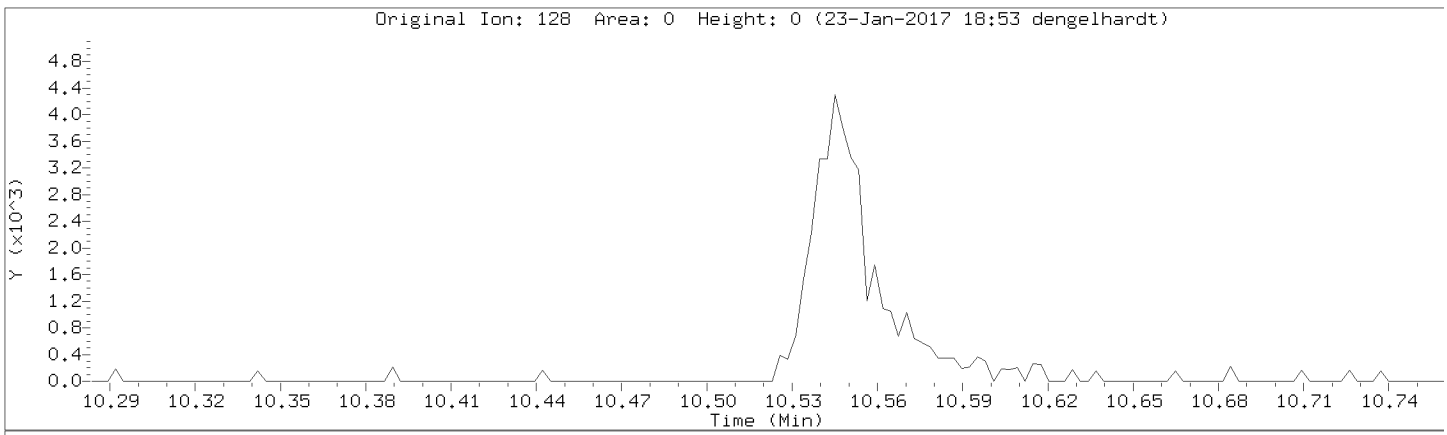
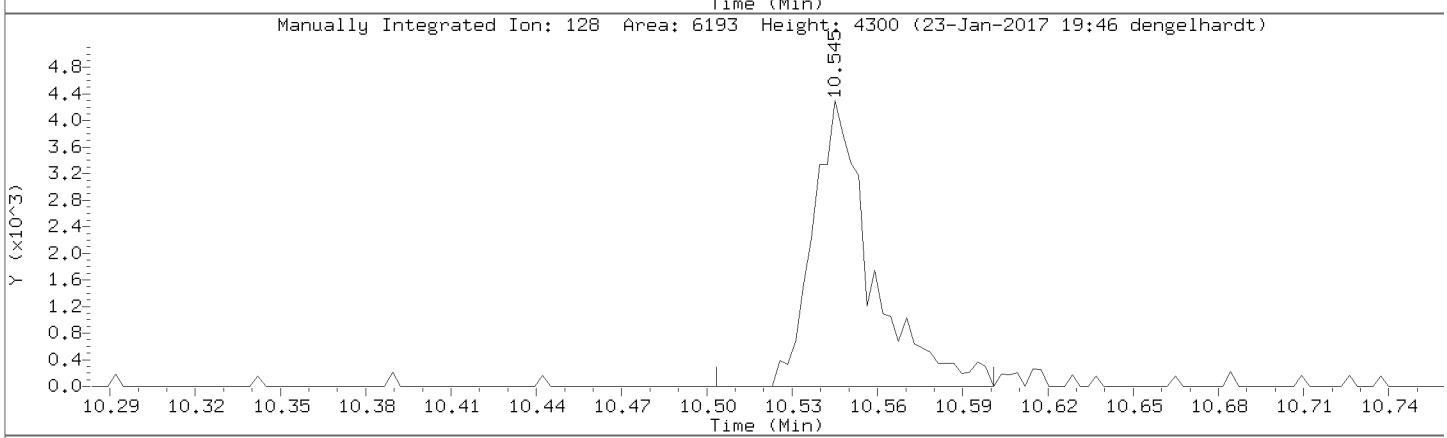
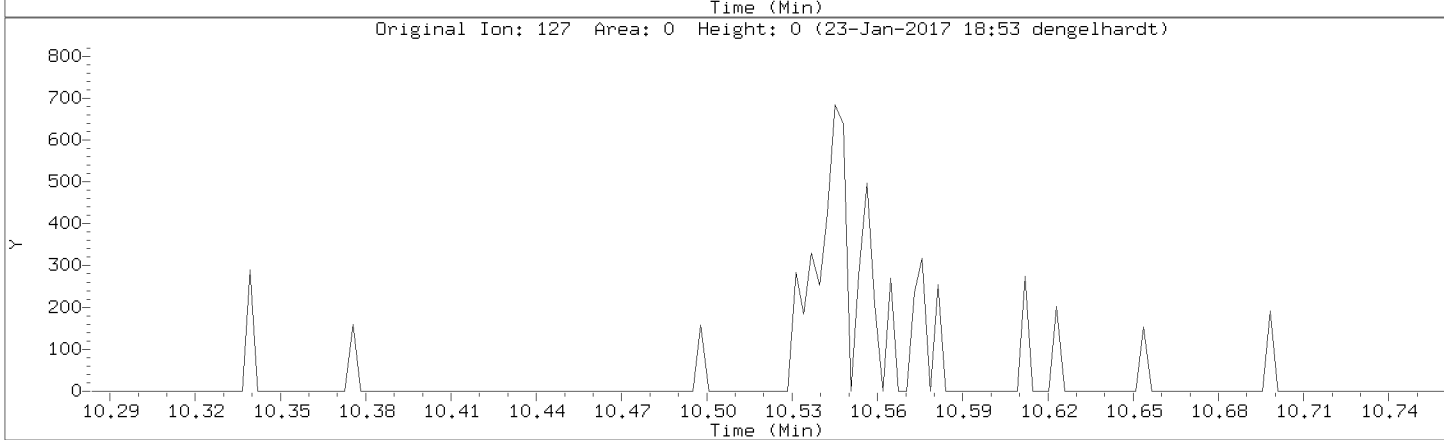
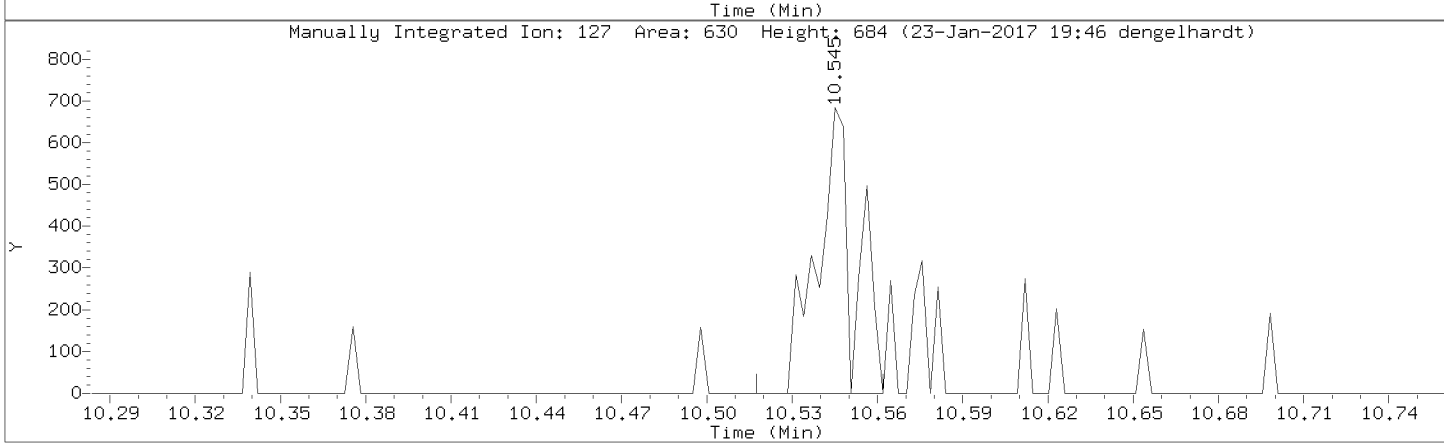
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Naphthalene Review Code: NI
CAS Number: 91-20-3









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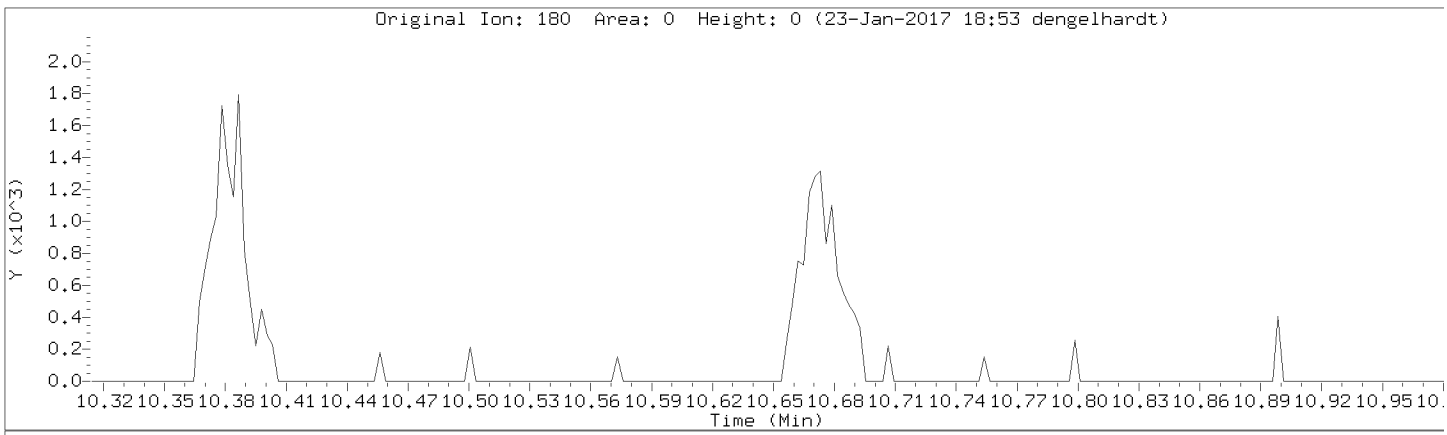
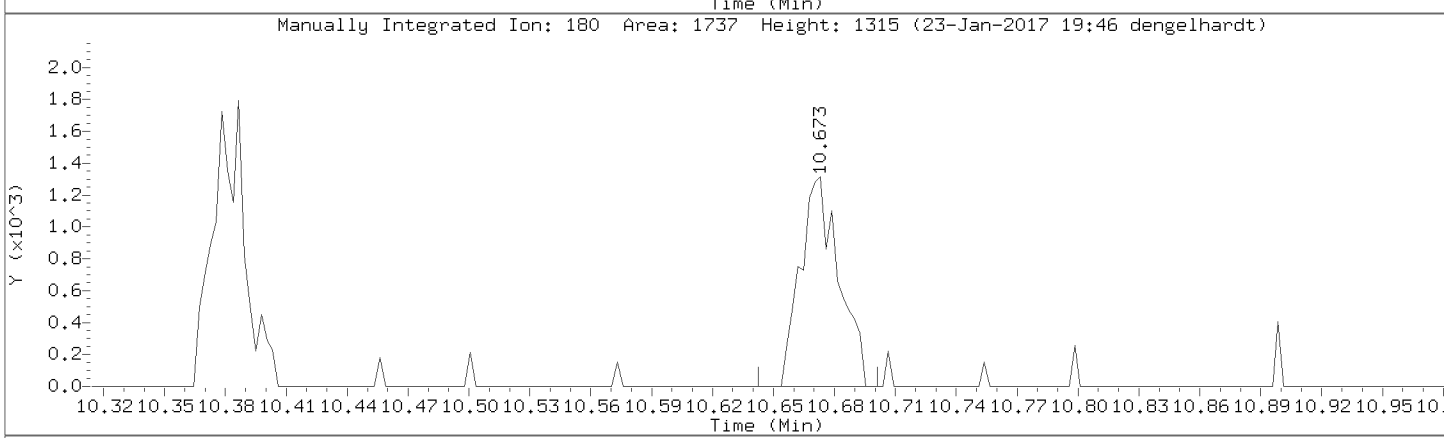
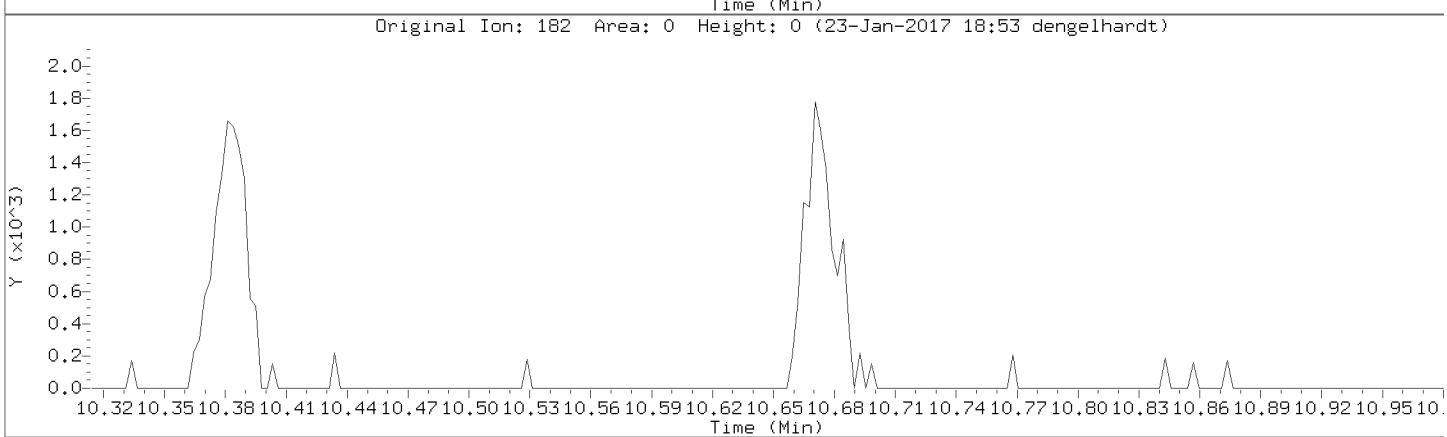
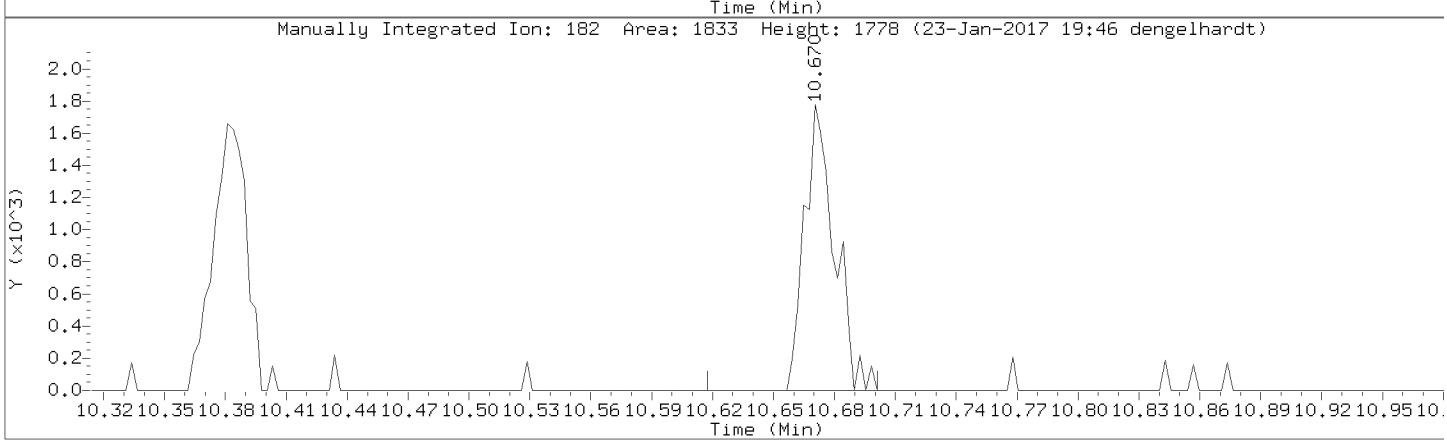
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,3-Trichlorobenzene Review Code: NI
CAS Number: 87-61-6









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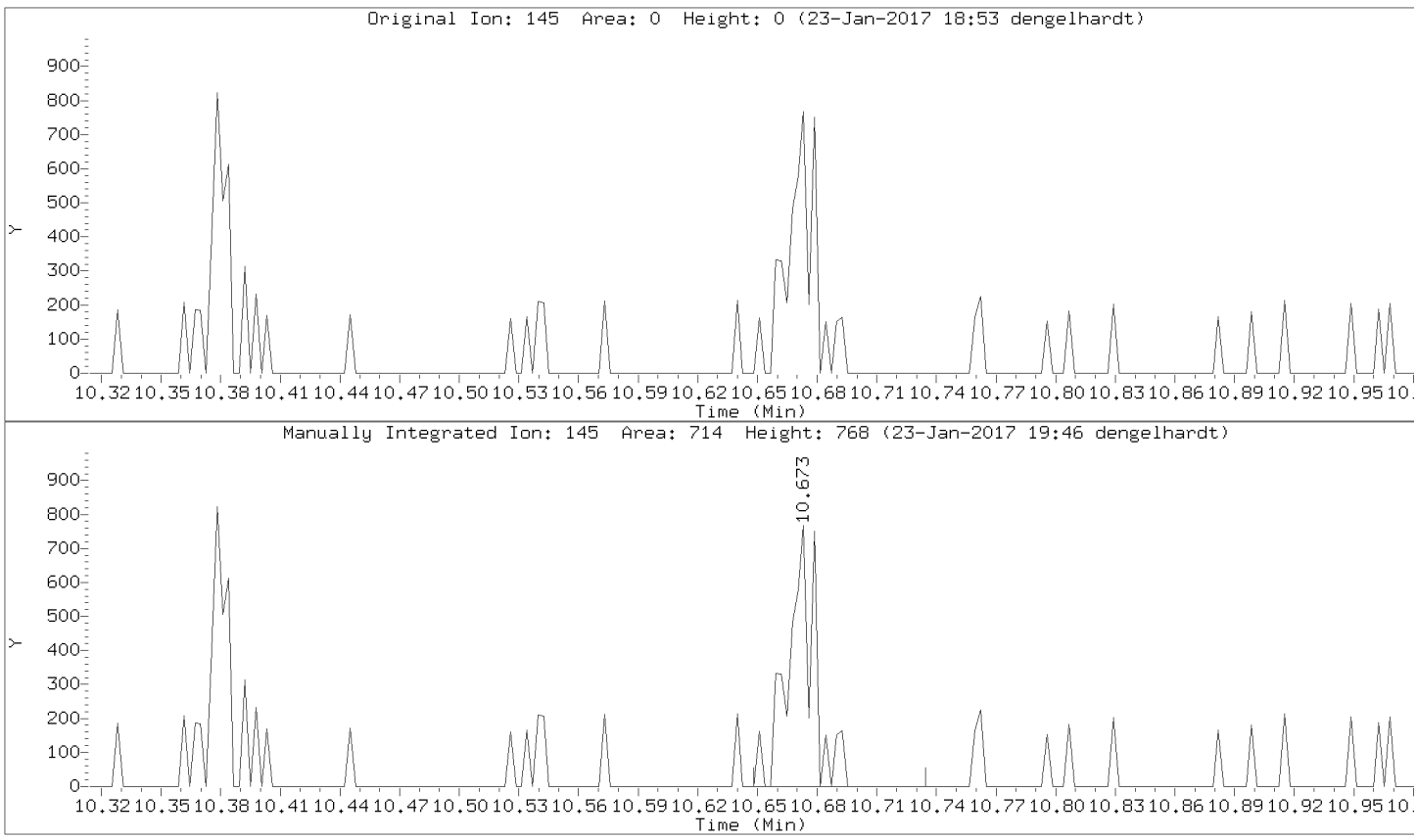
Lab Sample ID: 8260-CAL1,140426:0



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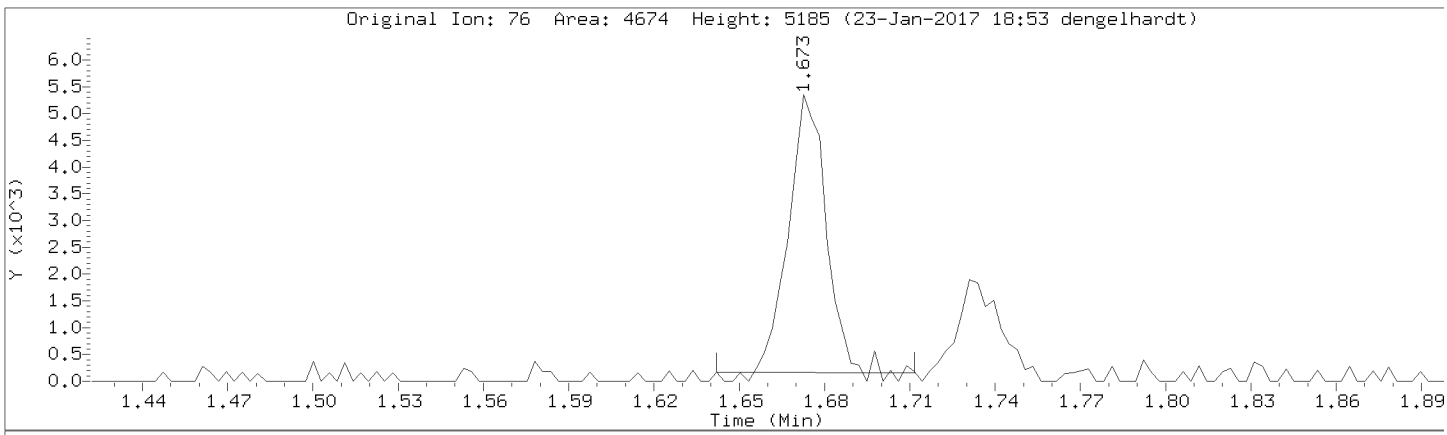
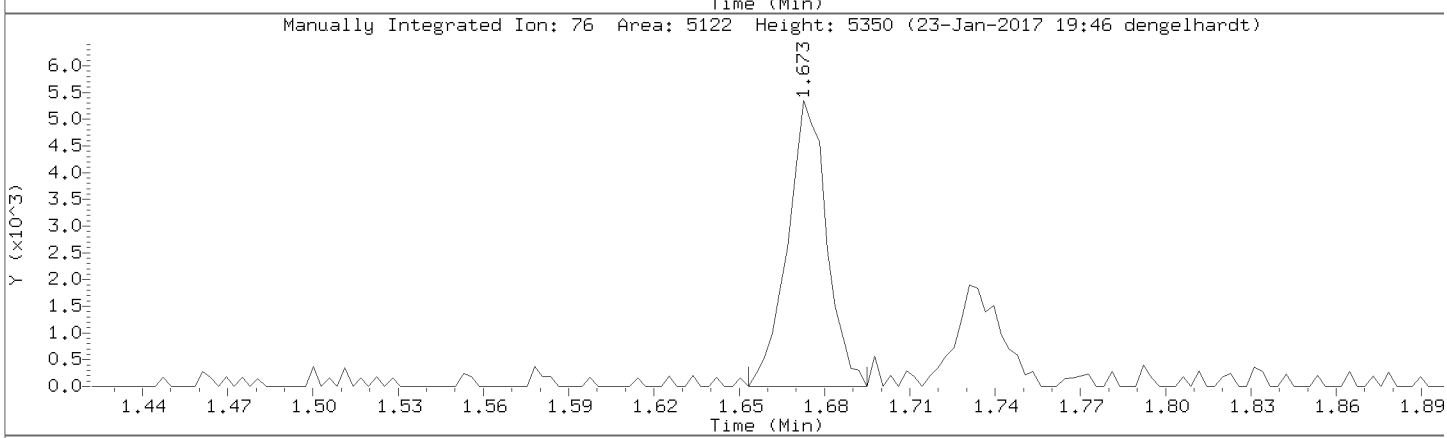
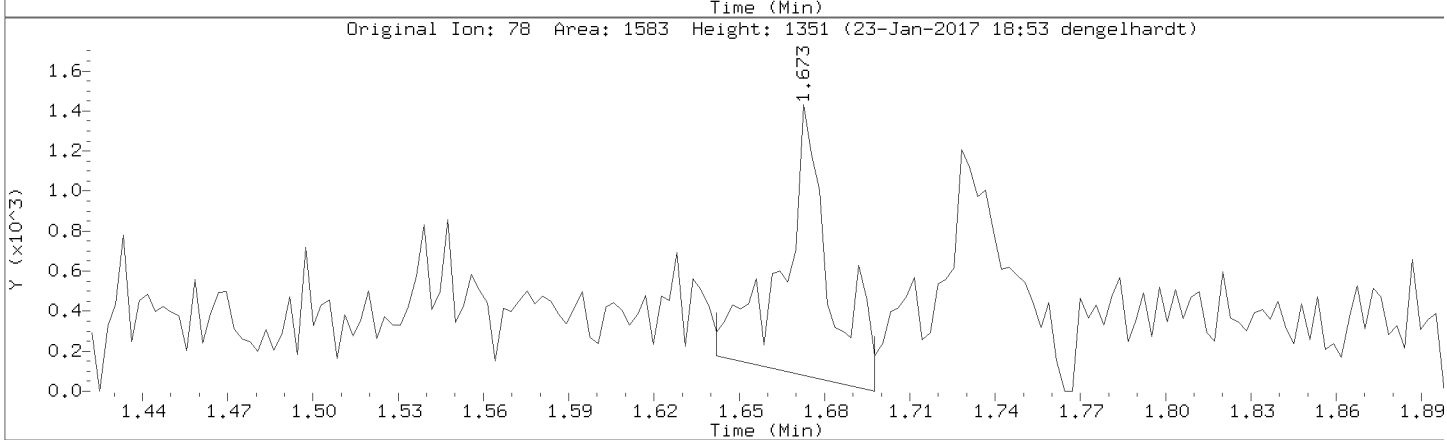
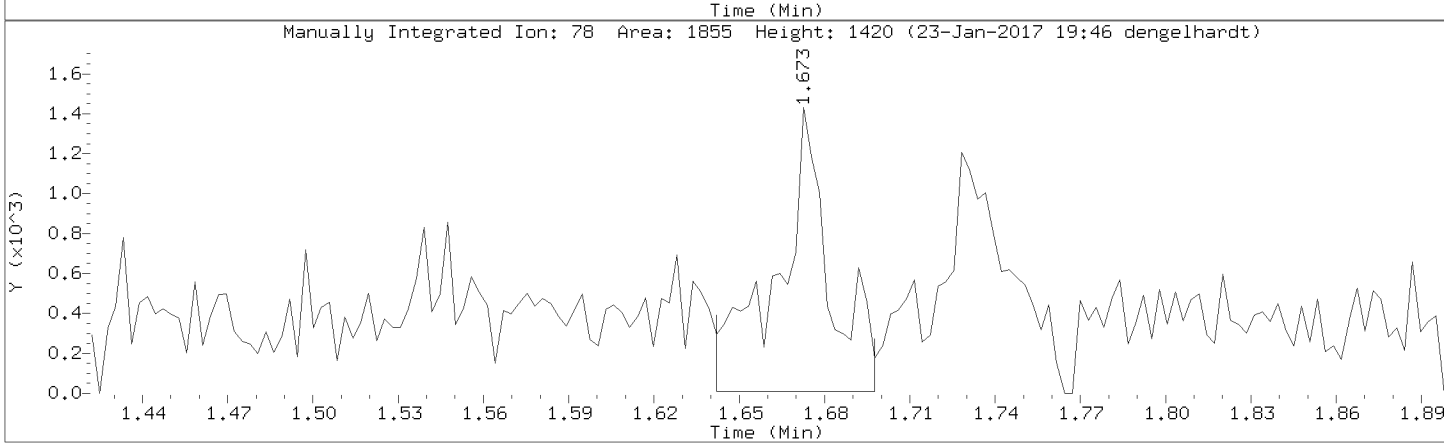
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Carbon Disulfide Review Code: LT
CAS Number: 75-15-0









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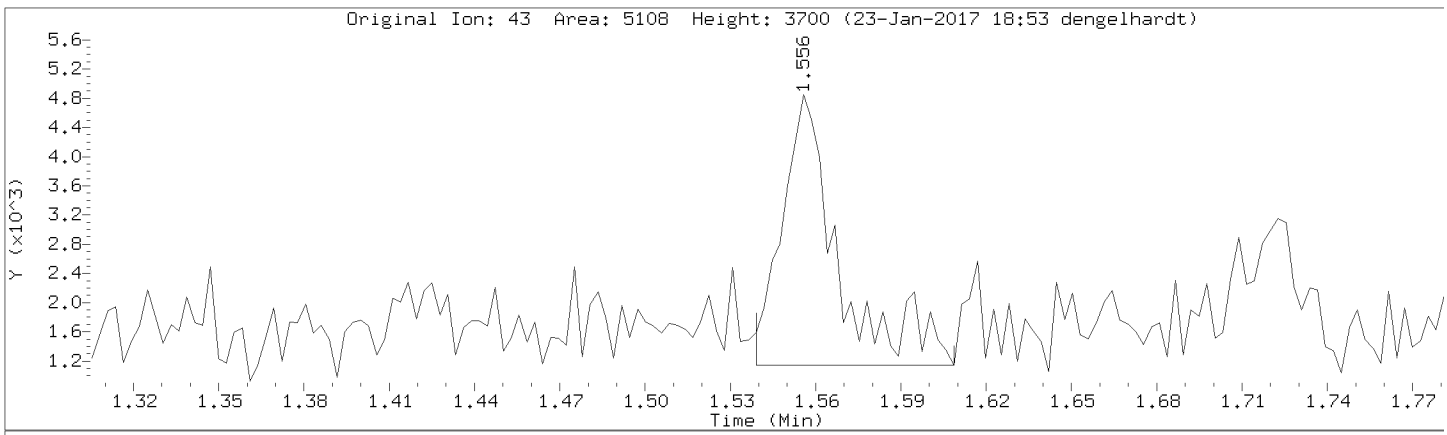
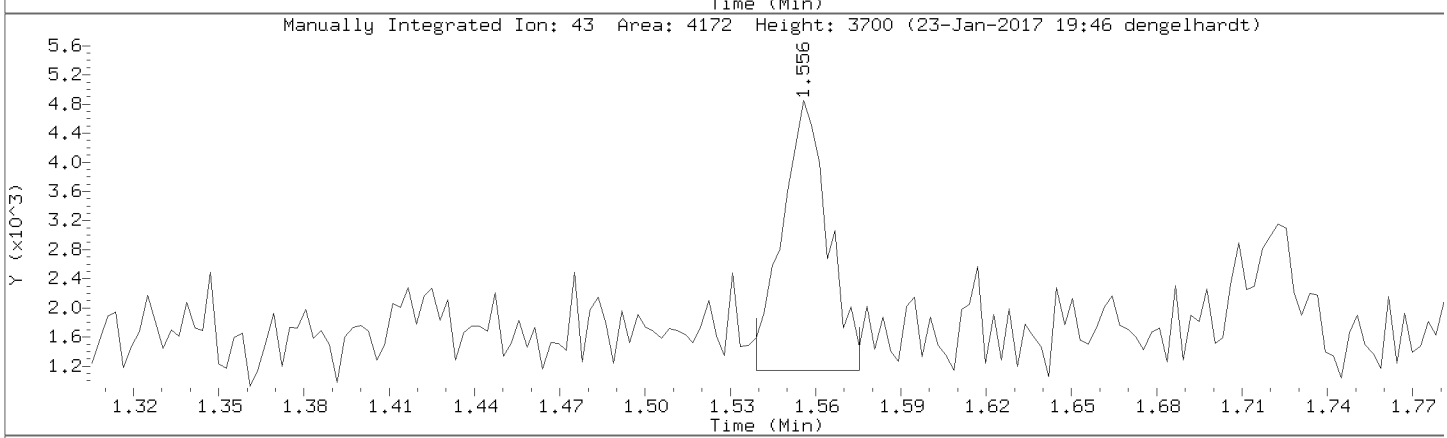
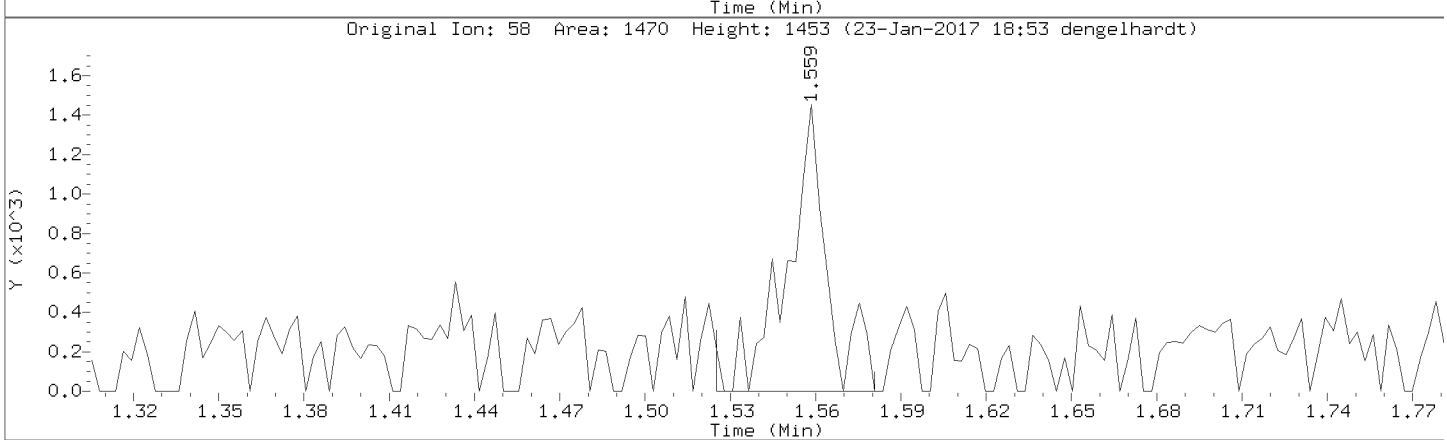
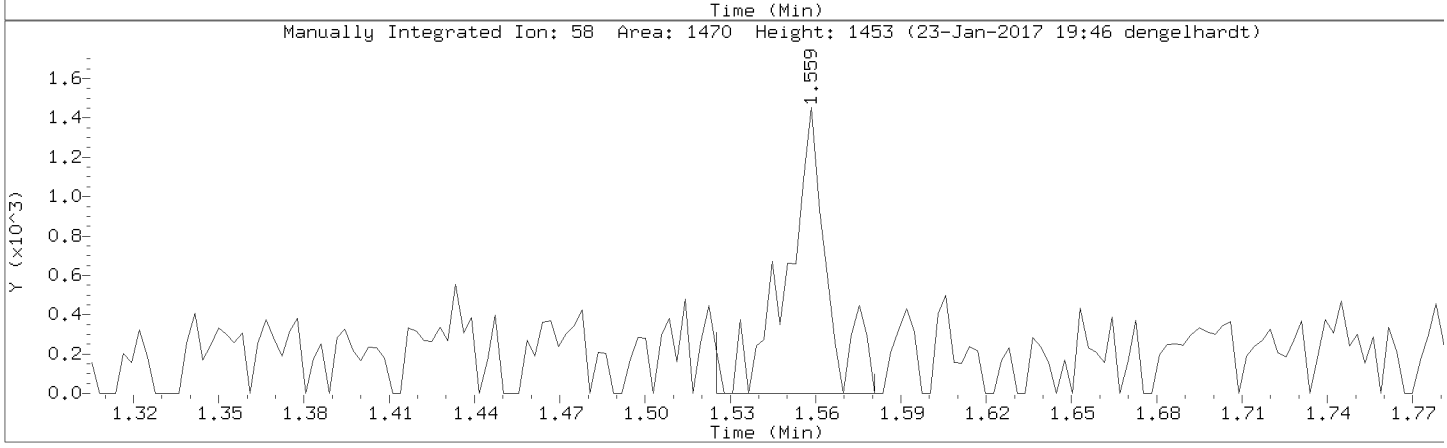
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acetone Review Code: GT
CAS Number: 67-64-1









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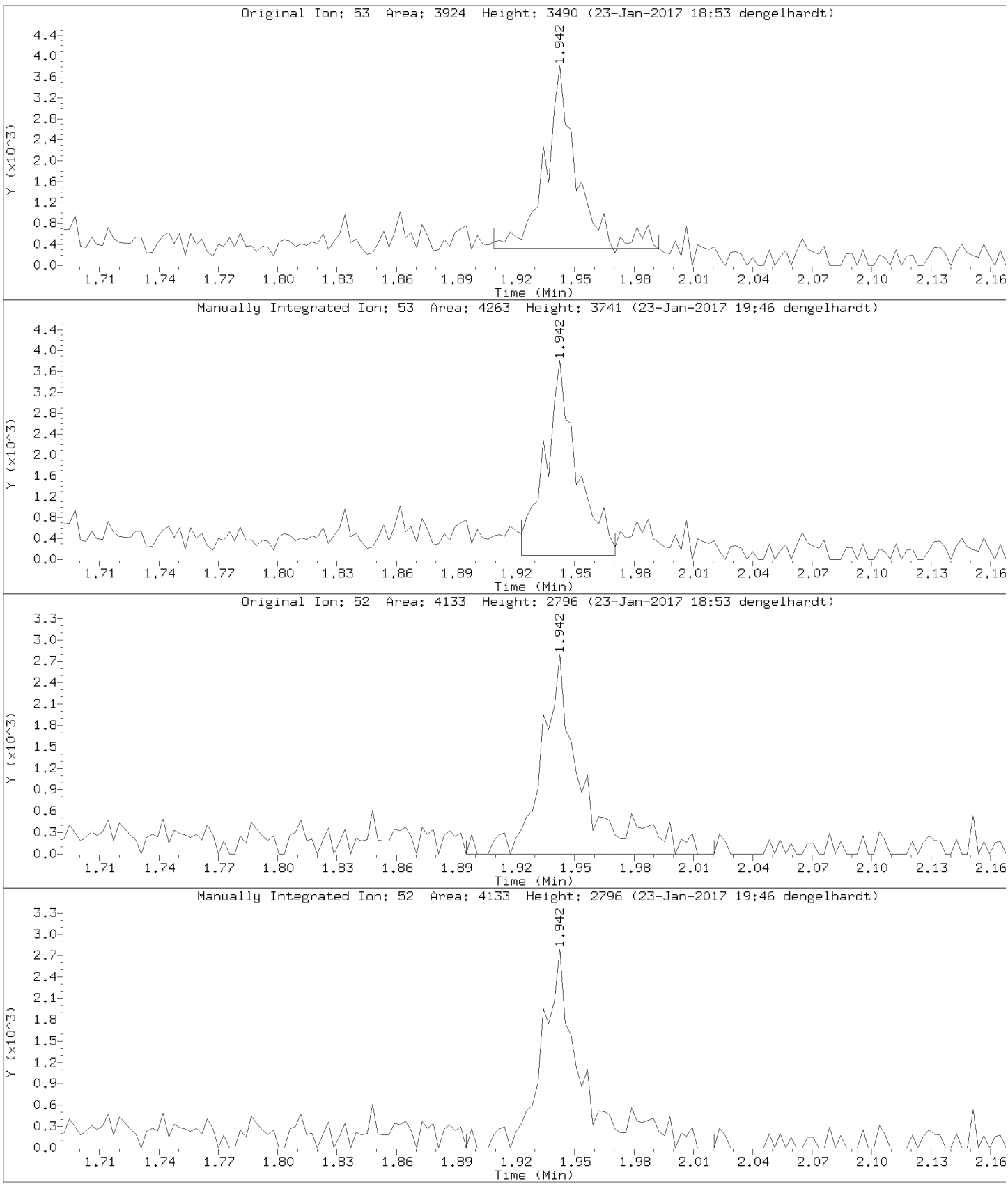
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acrylonitrile Review Code: GT
CAS Number: 107-13-1



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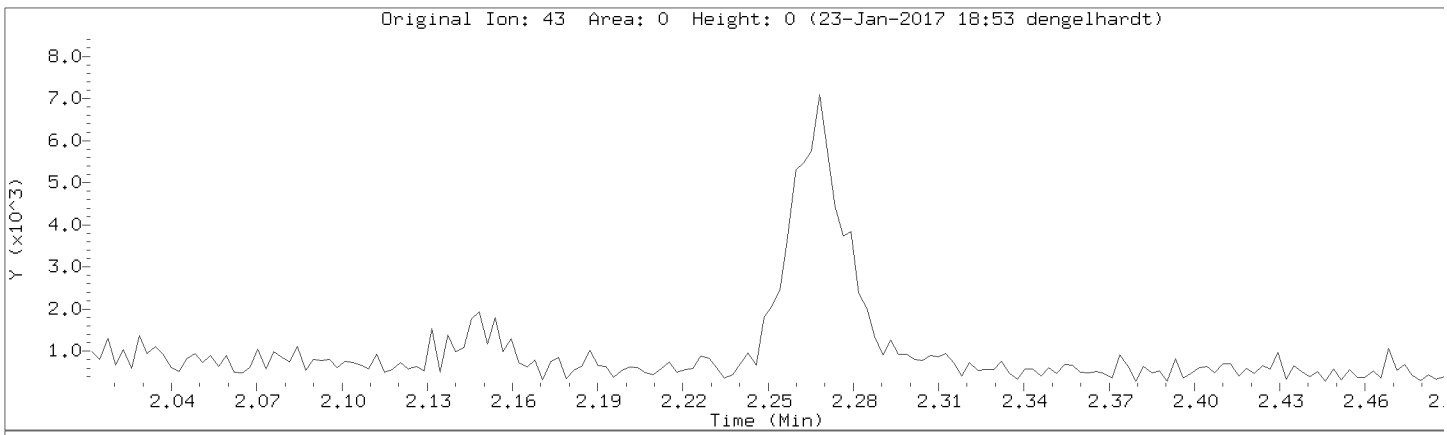
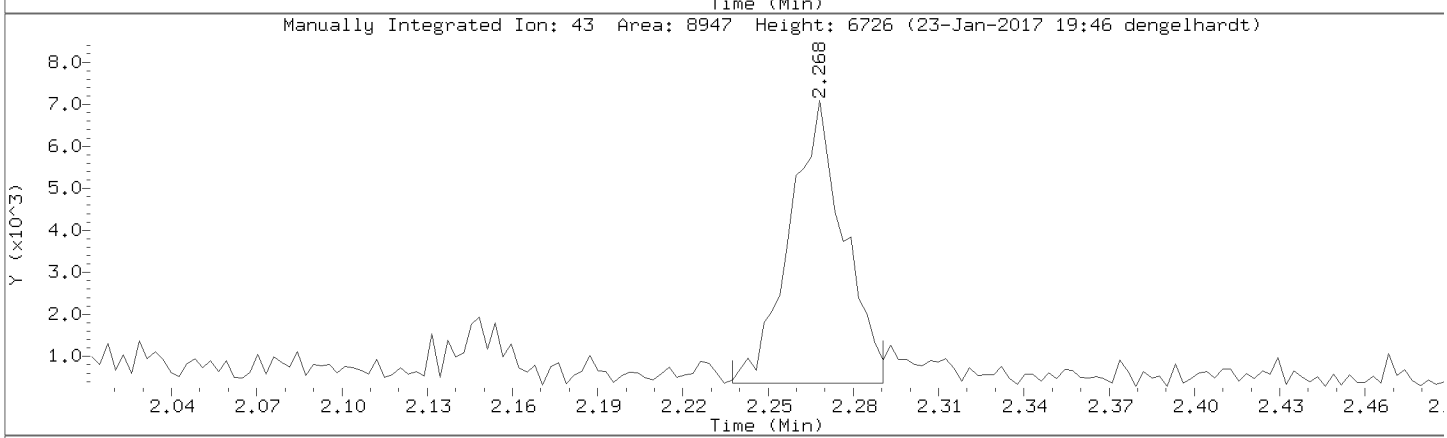
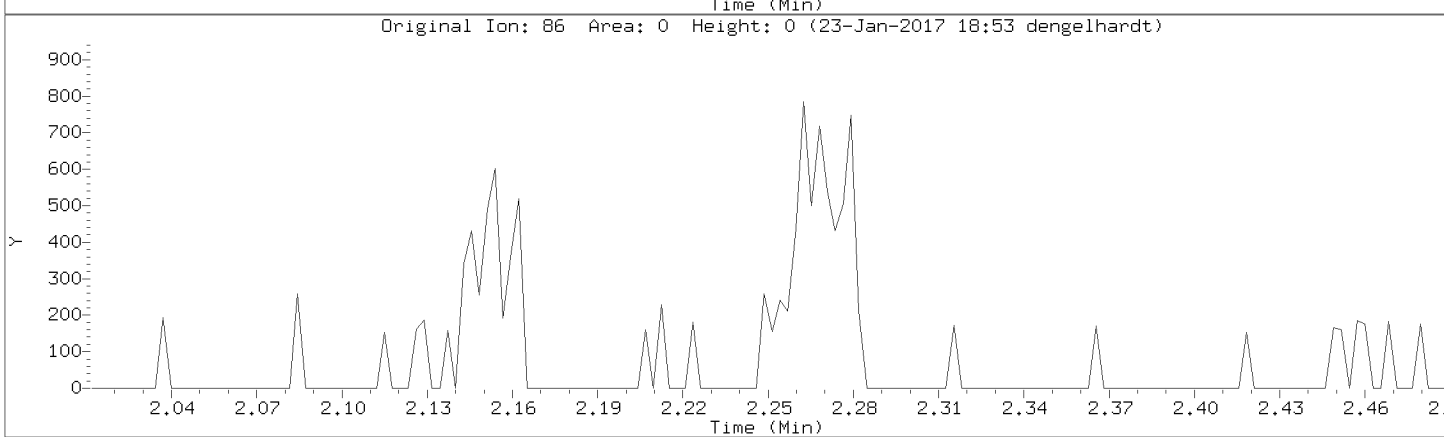
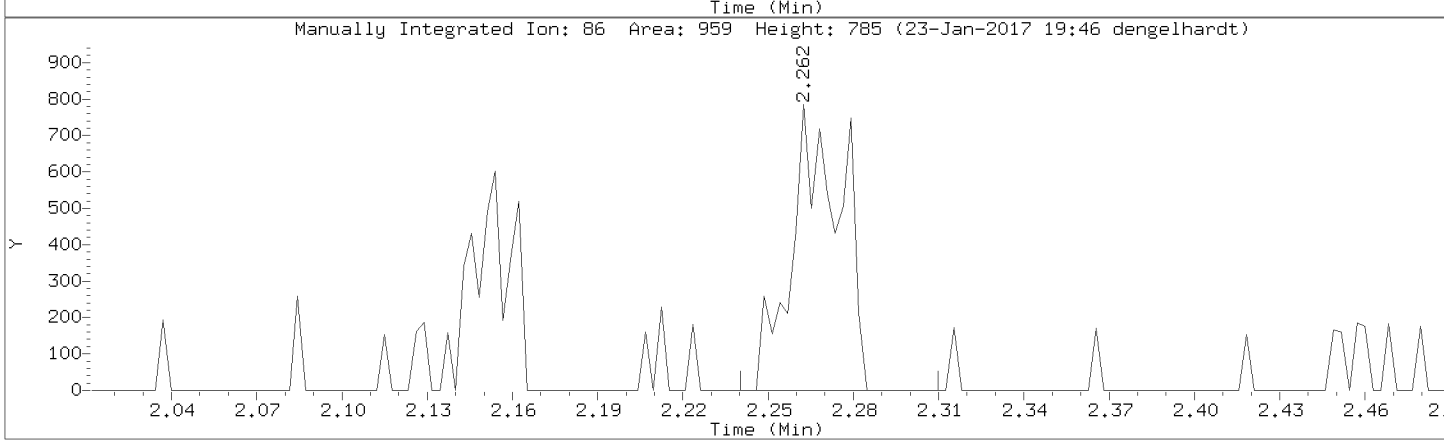
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Vinyl Acetate Review Code: NI
CAS Number: 108-05-4









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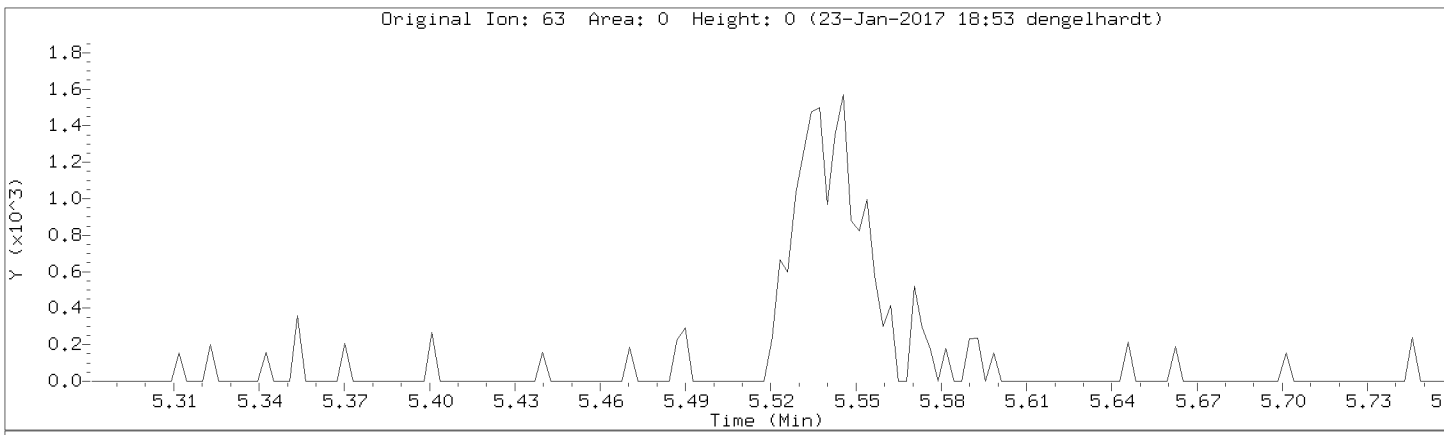
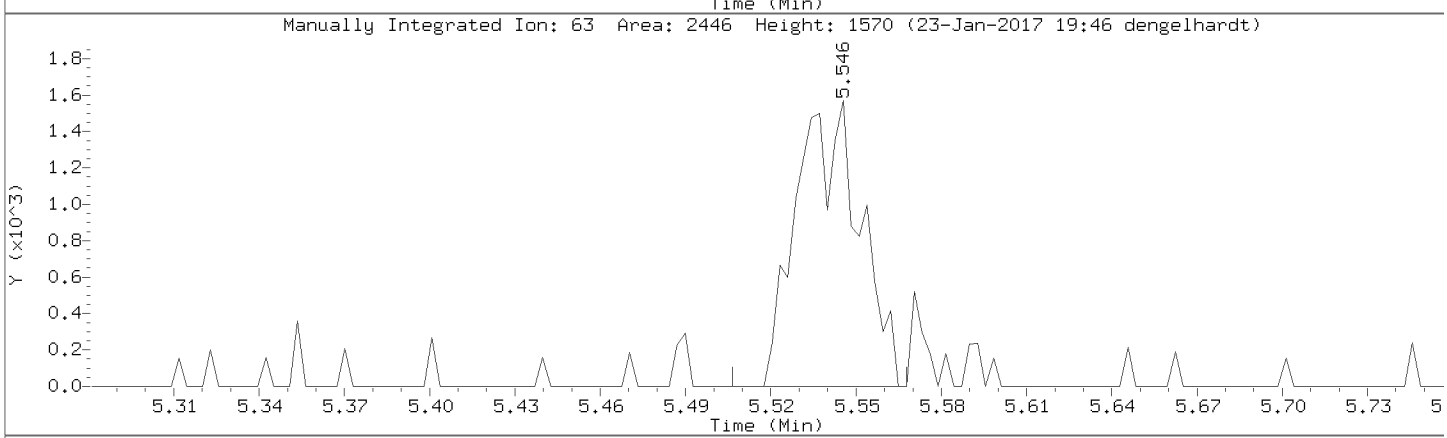
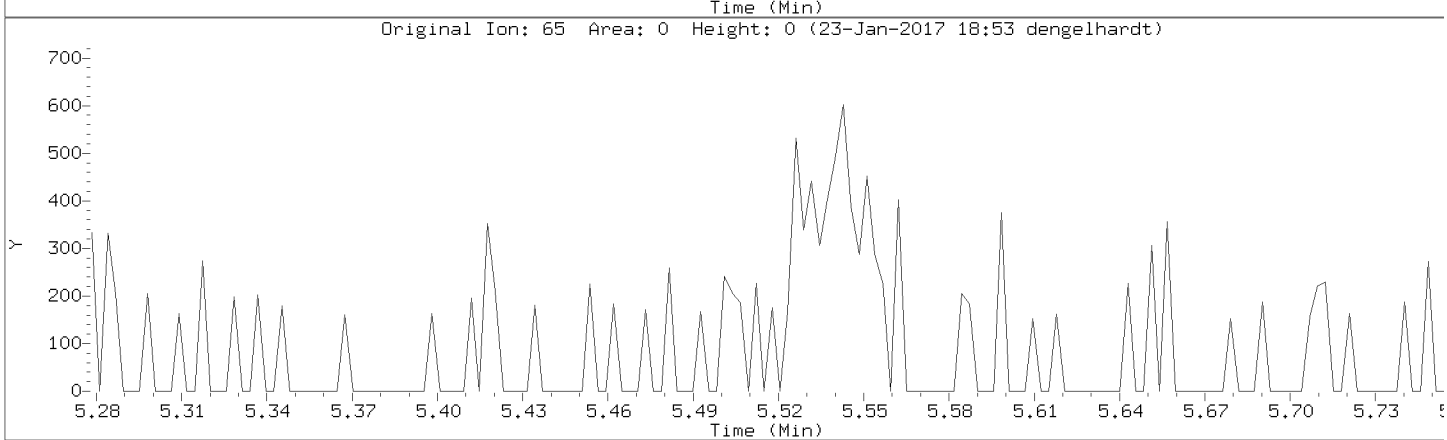
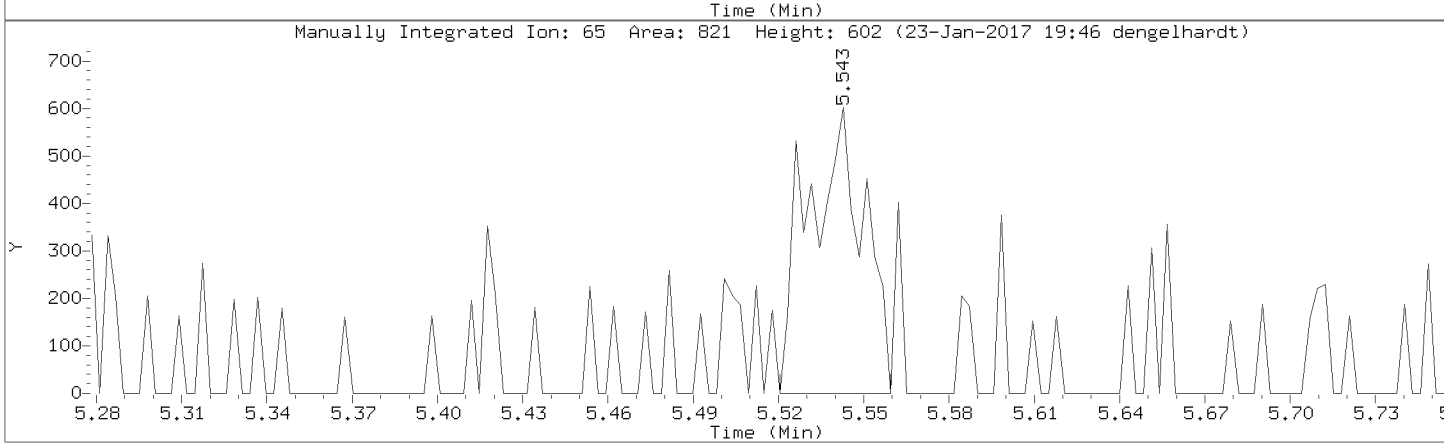
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8









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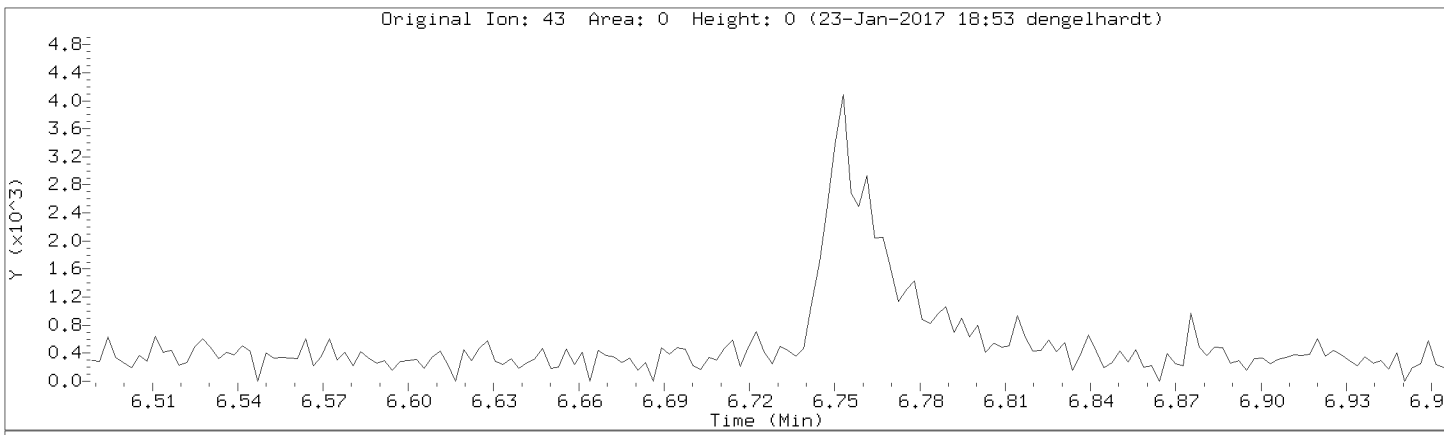
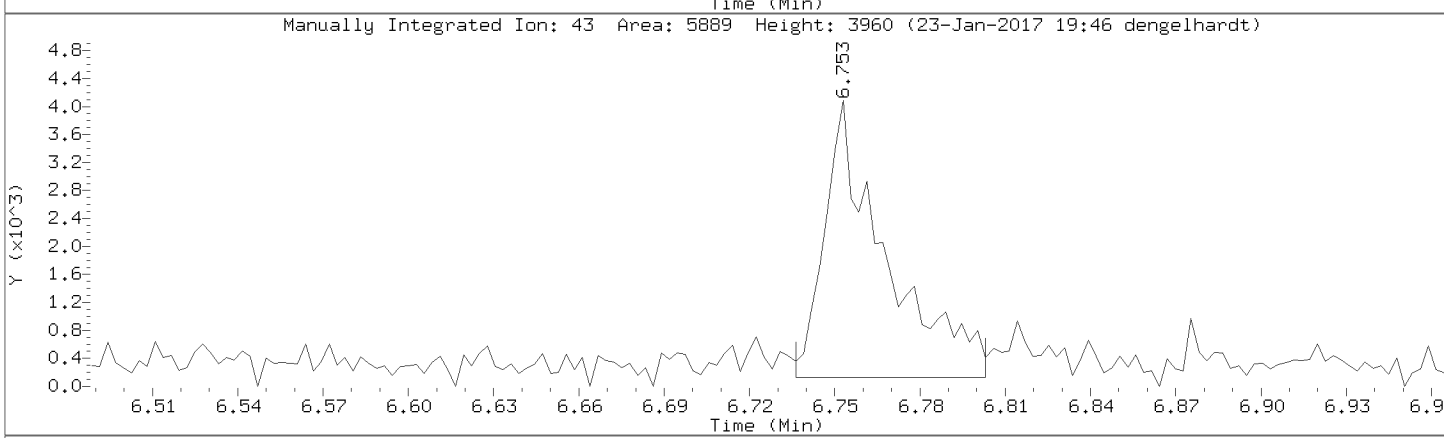
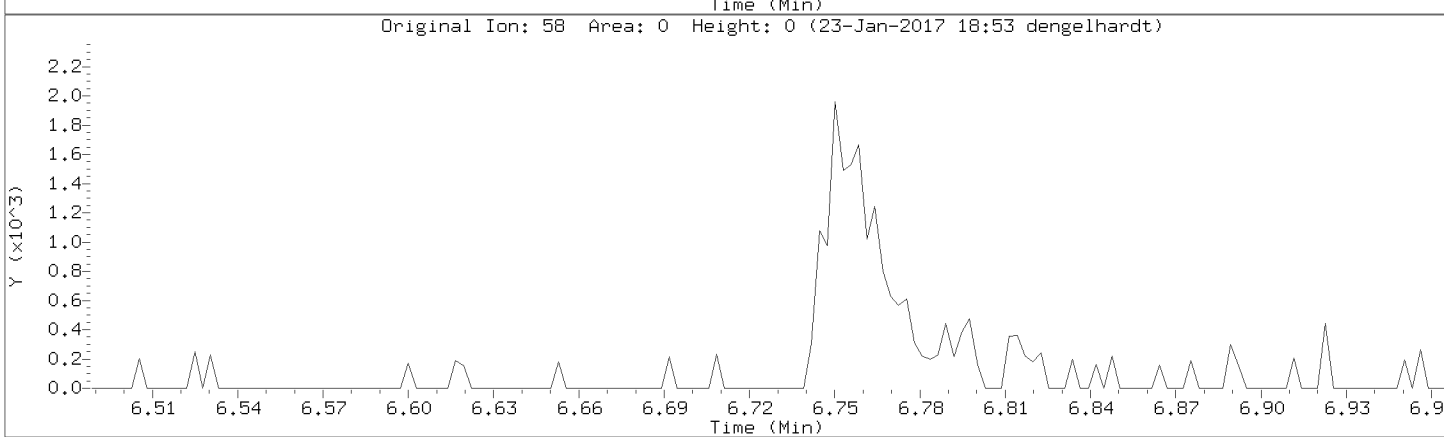
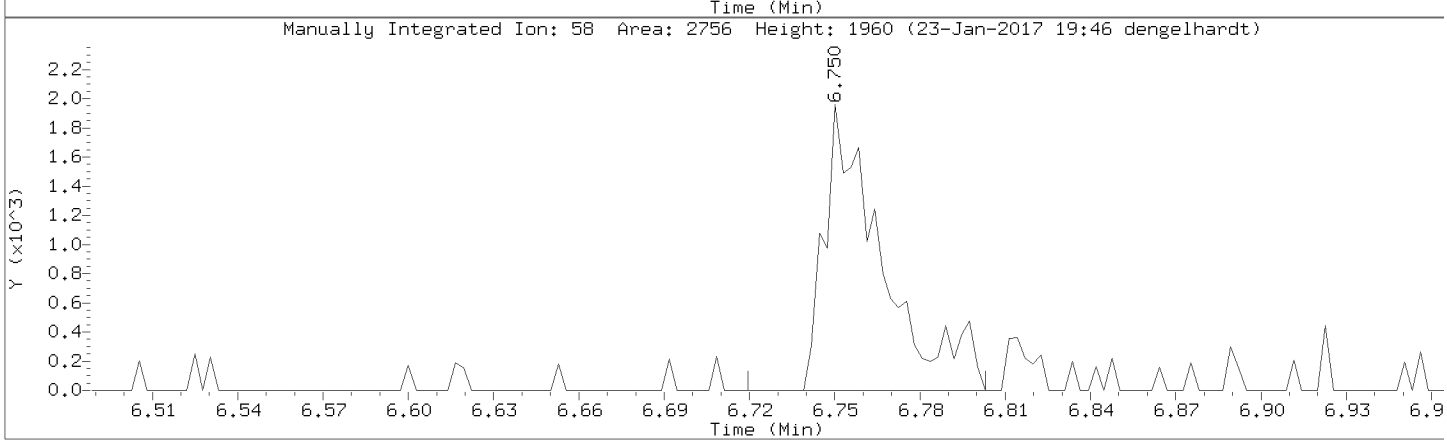
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6









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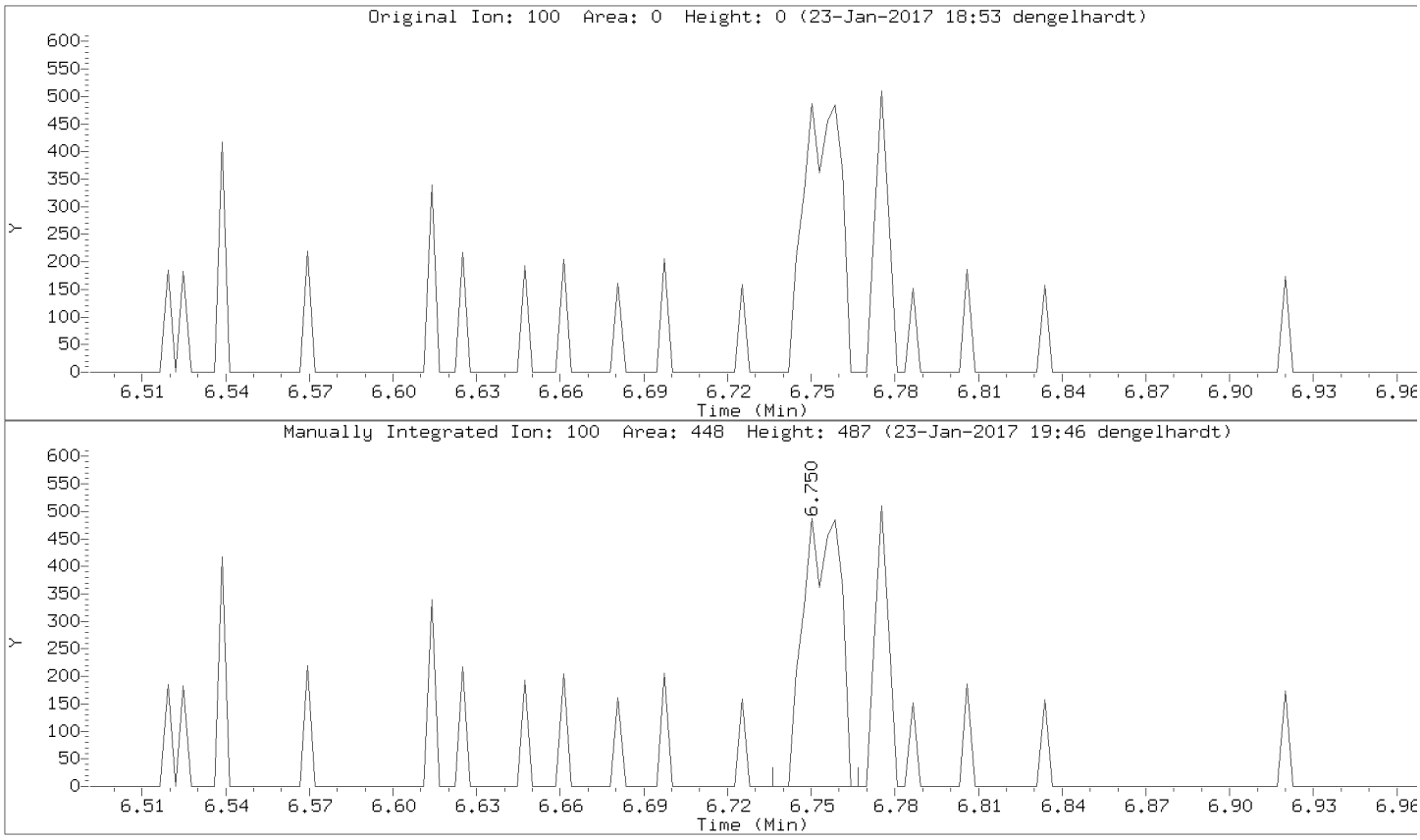
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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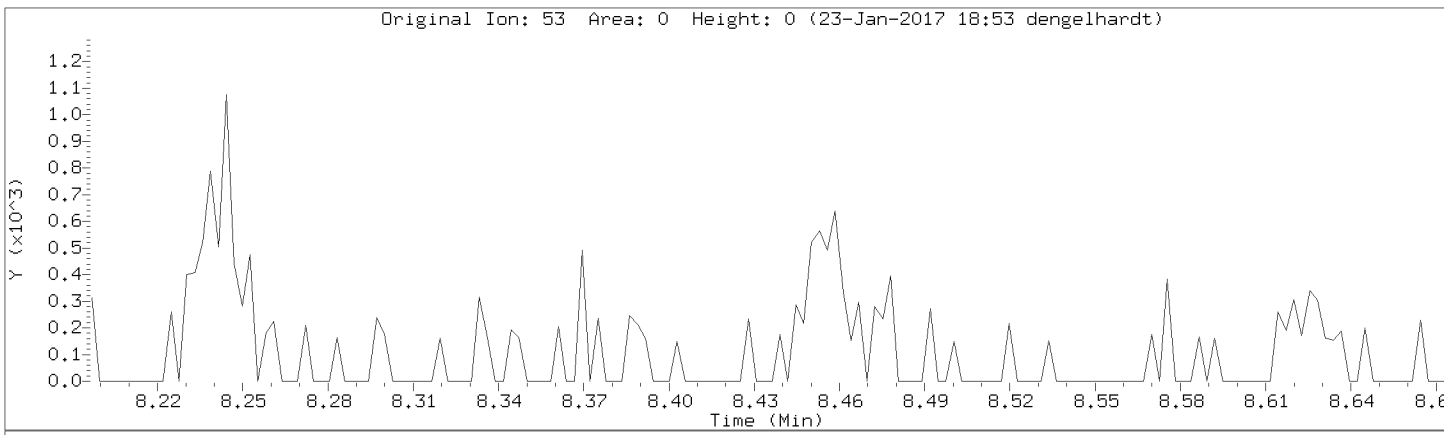
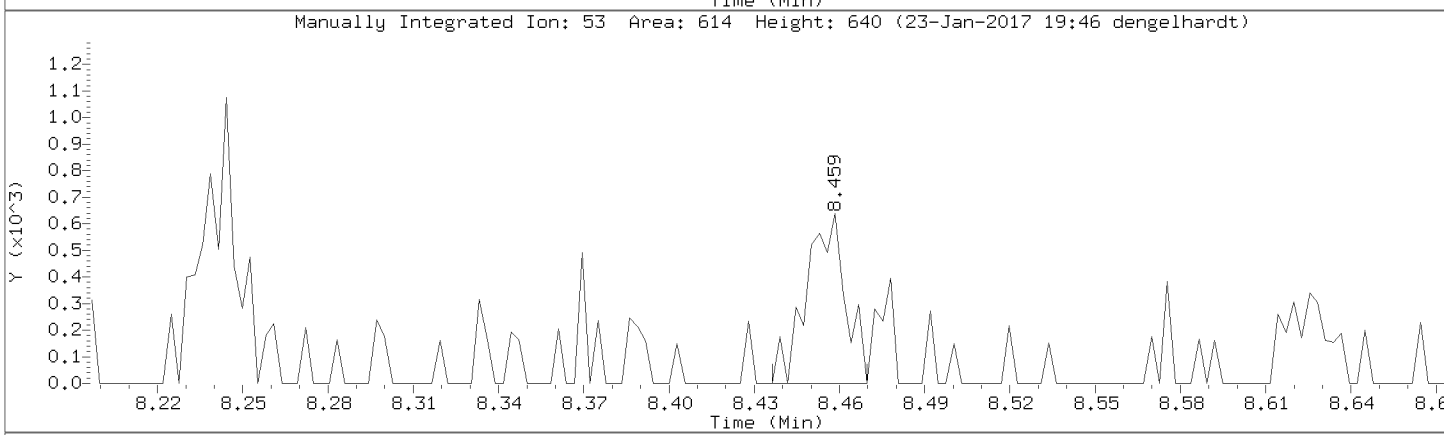
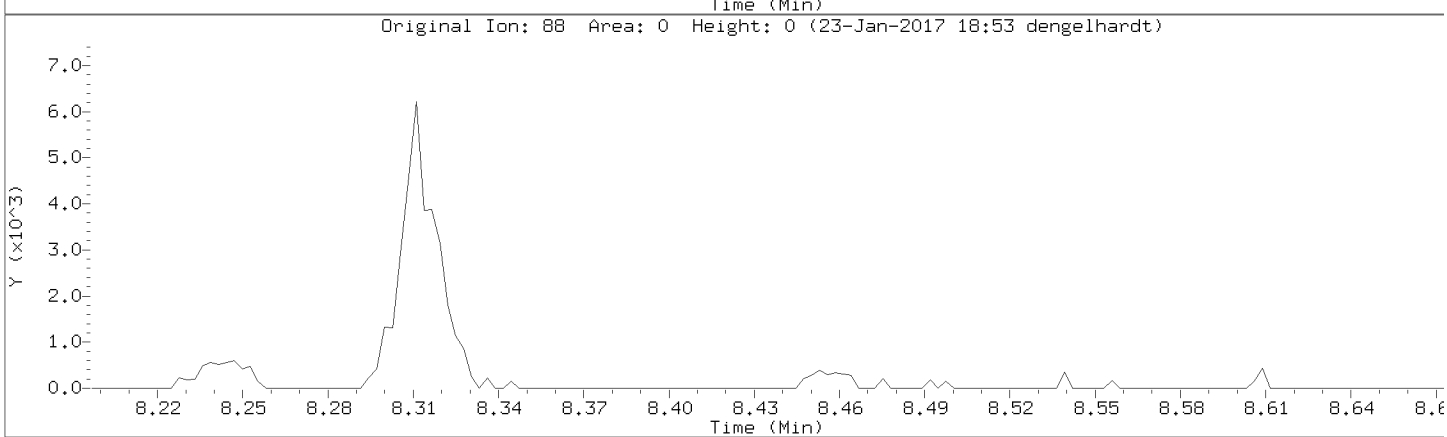
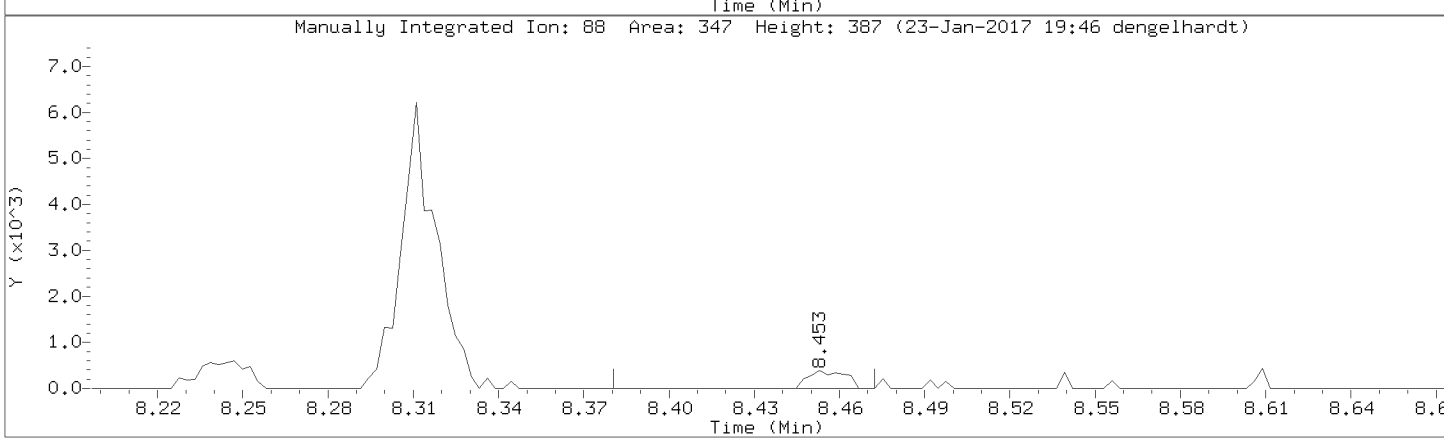
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: trans-1,4-Dichloro-2-butene Review Code: NI
CAS Number:

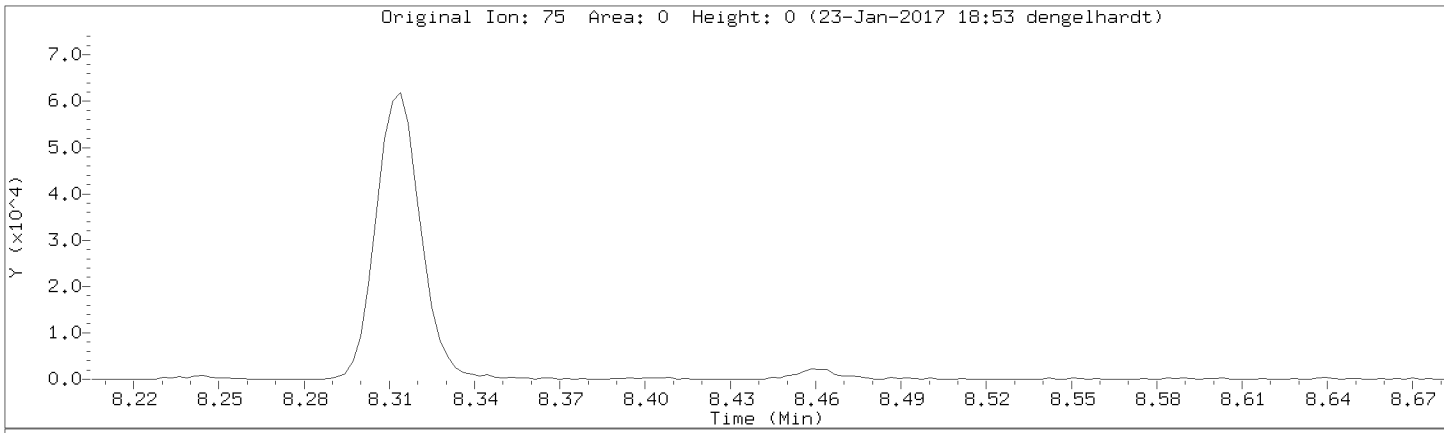


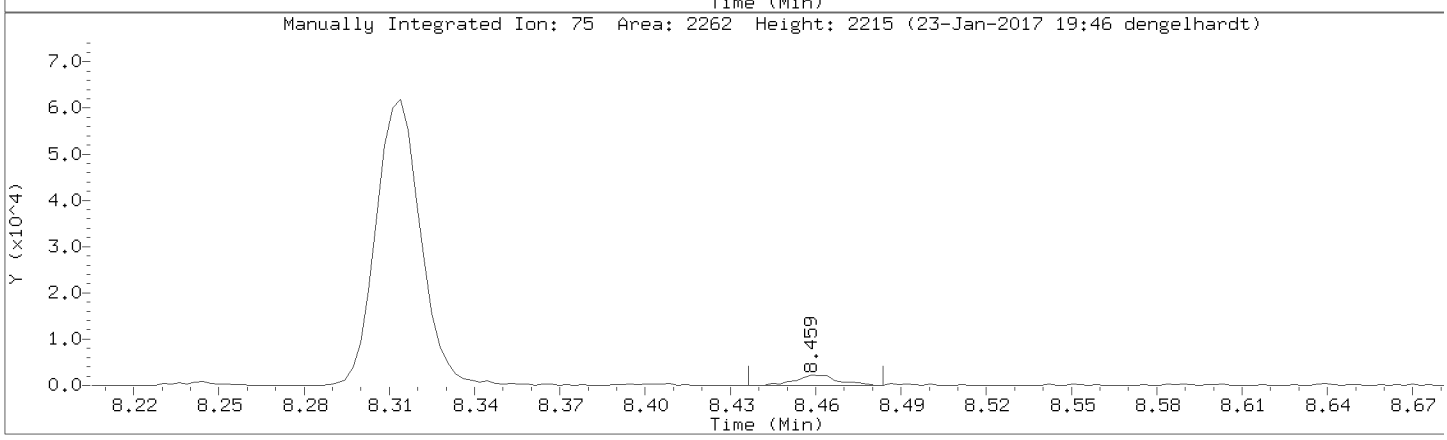






Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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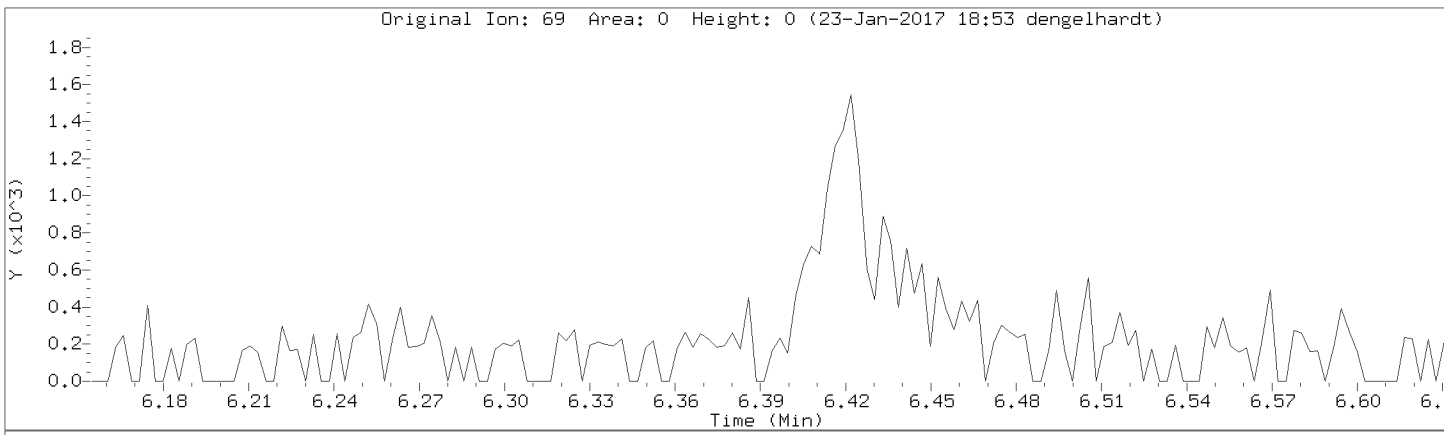
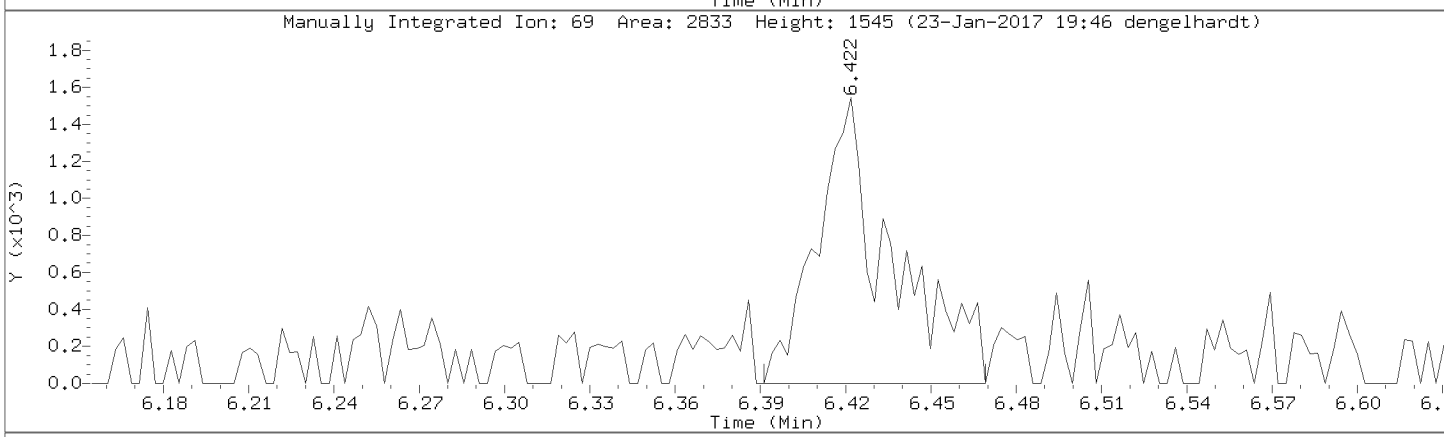
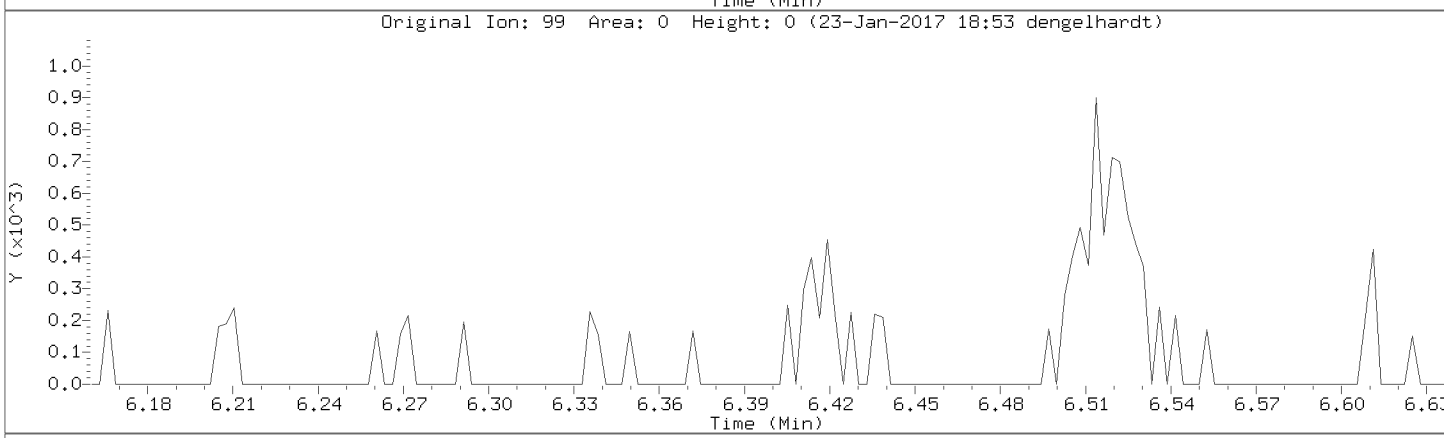
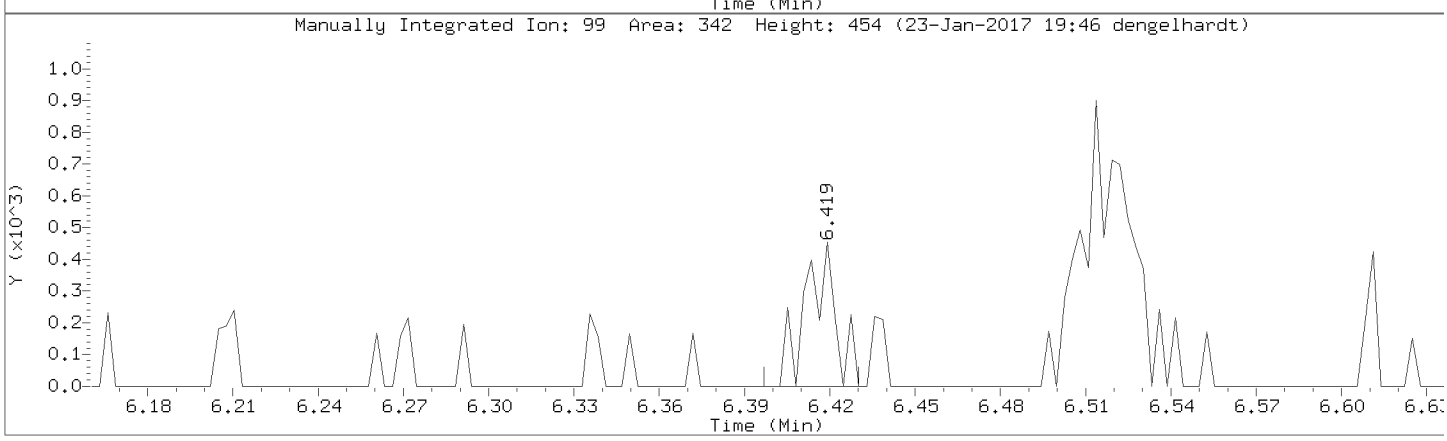
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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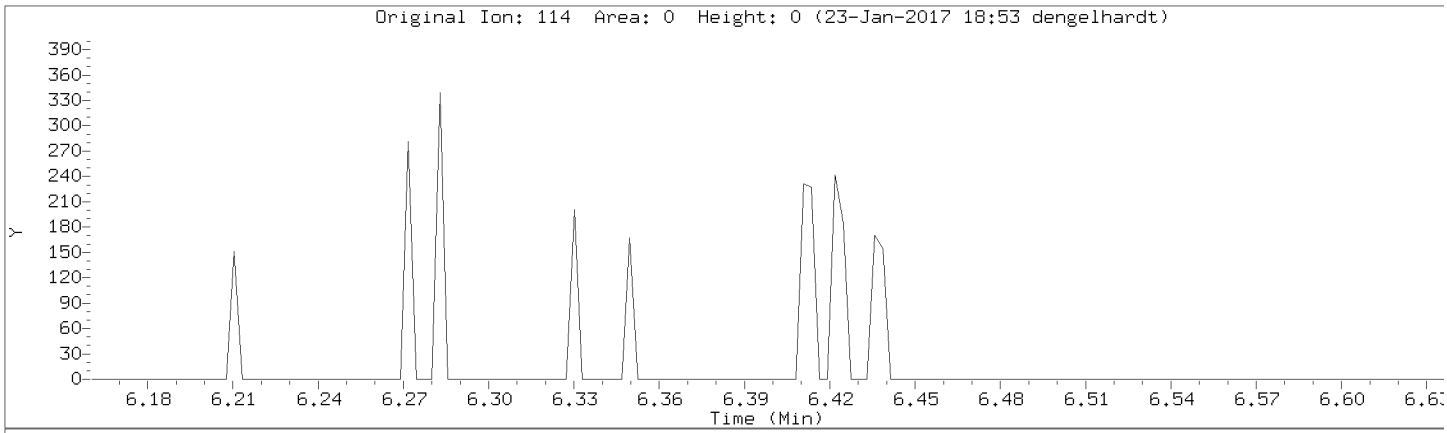
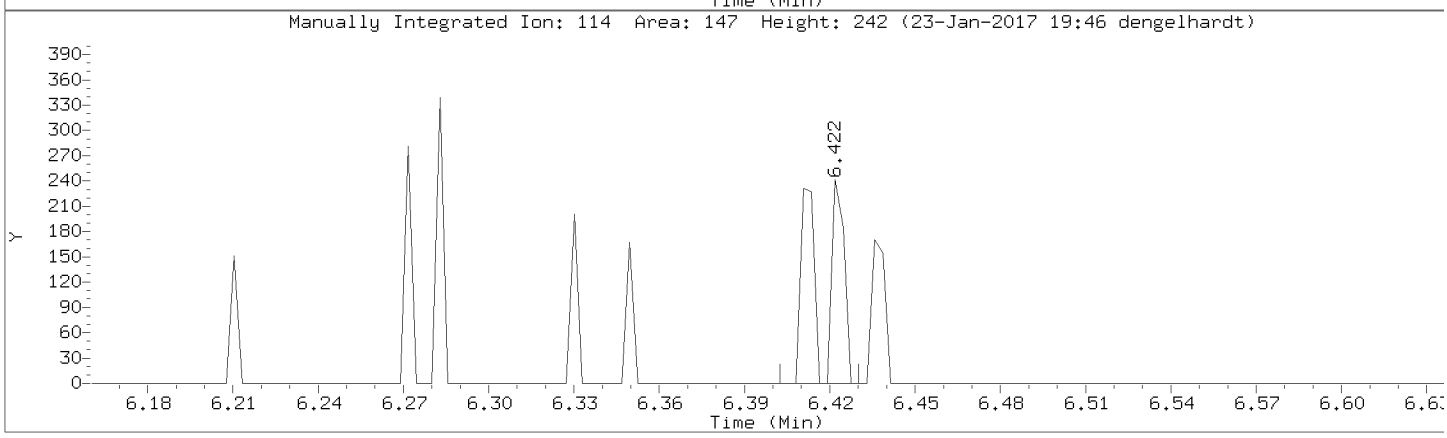
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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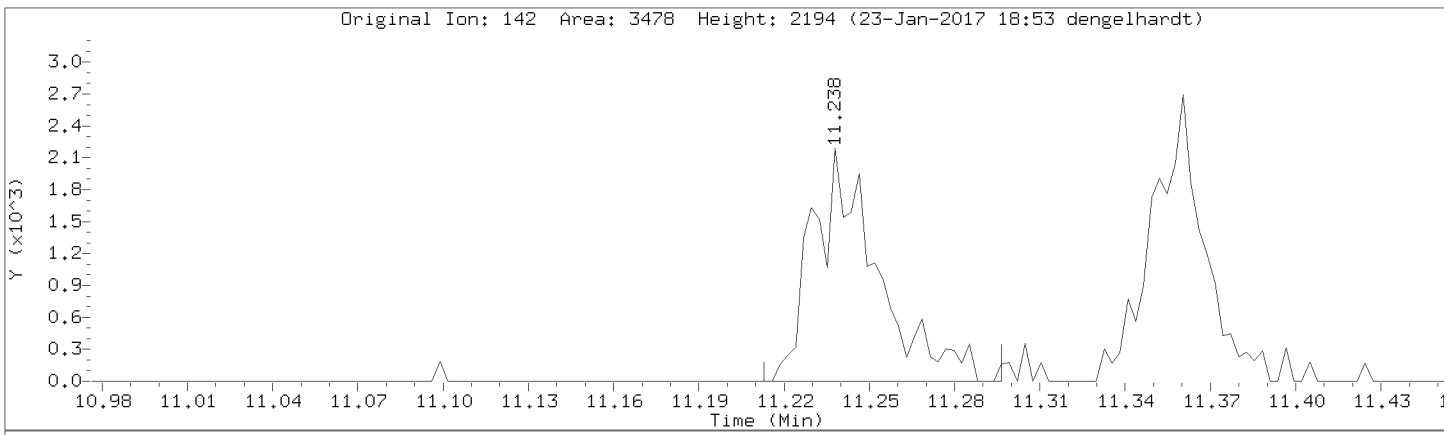
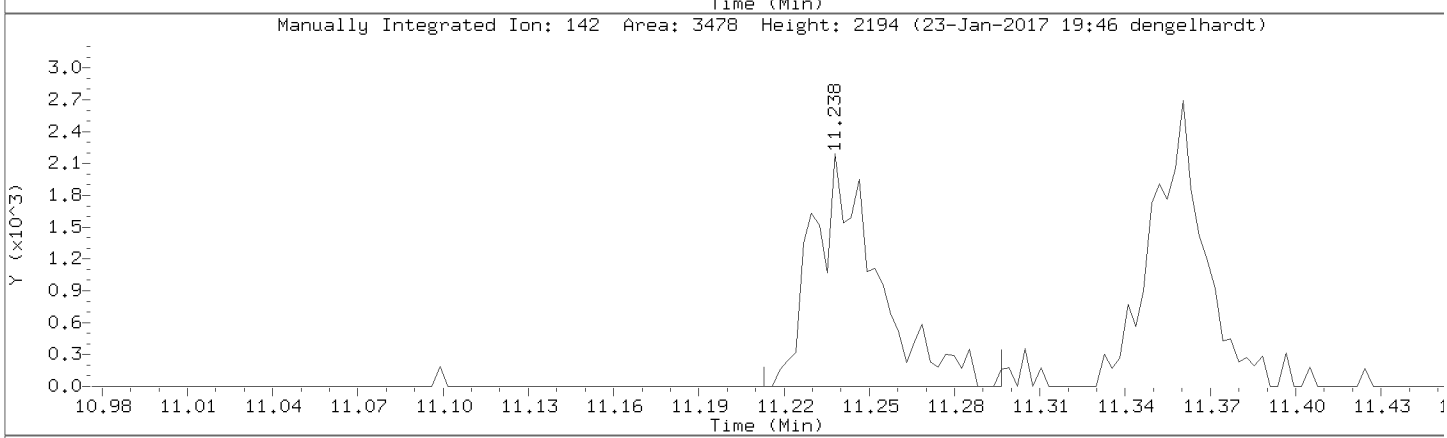
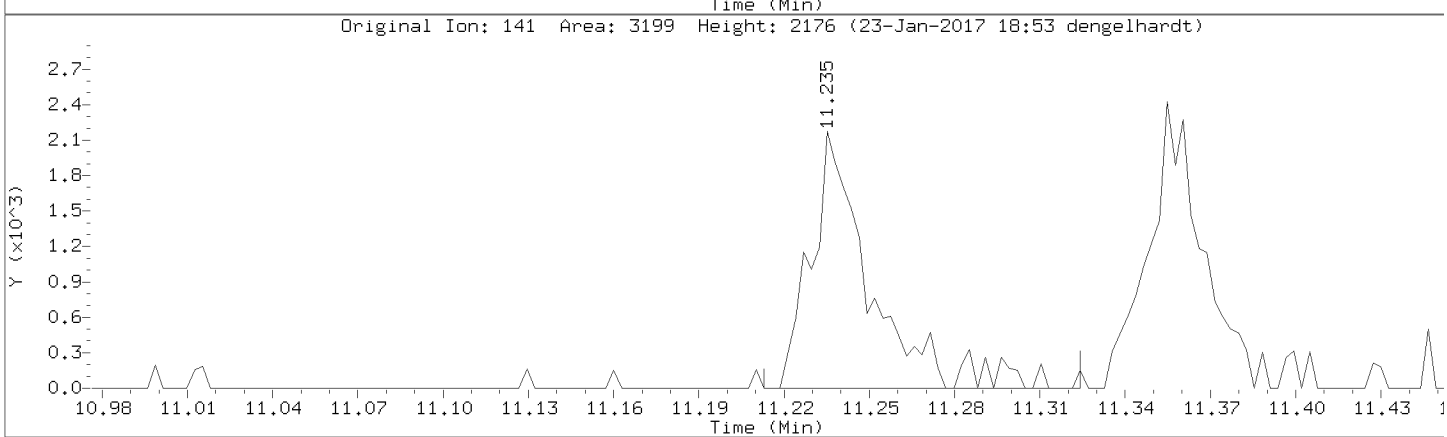
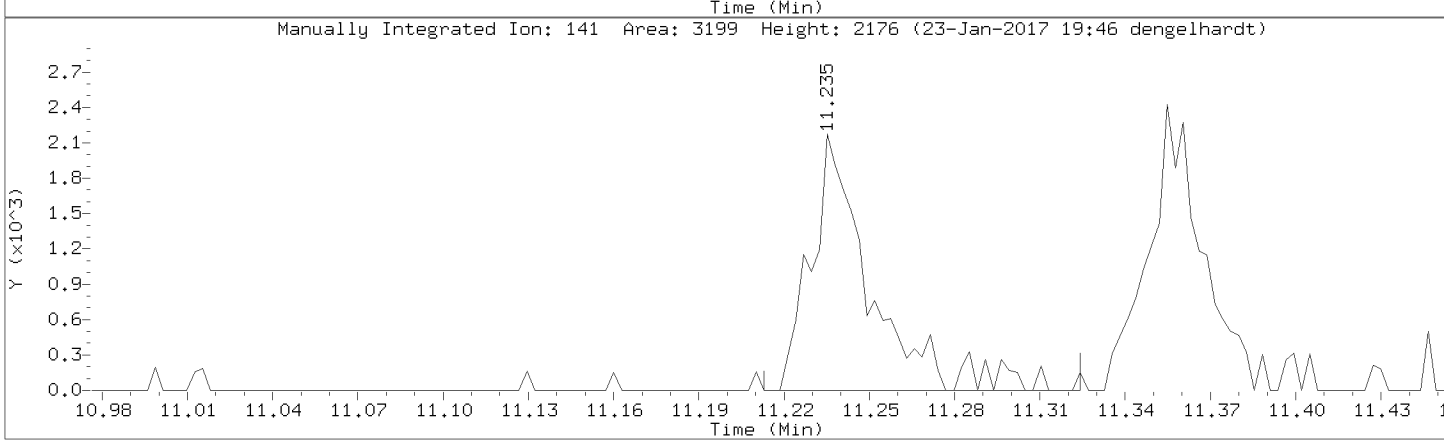
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,methyl-naphthalene Review Code: WP
CAS Number:









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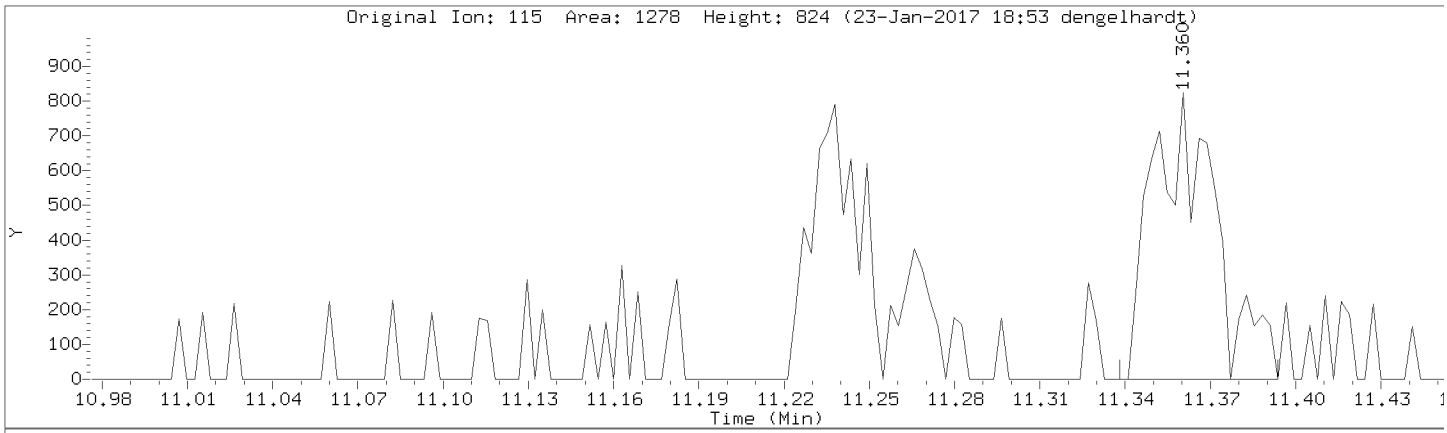
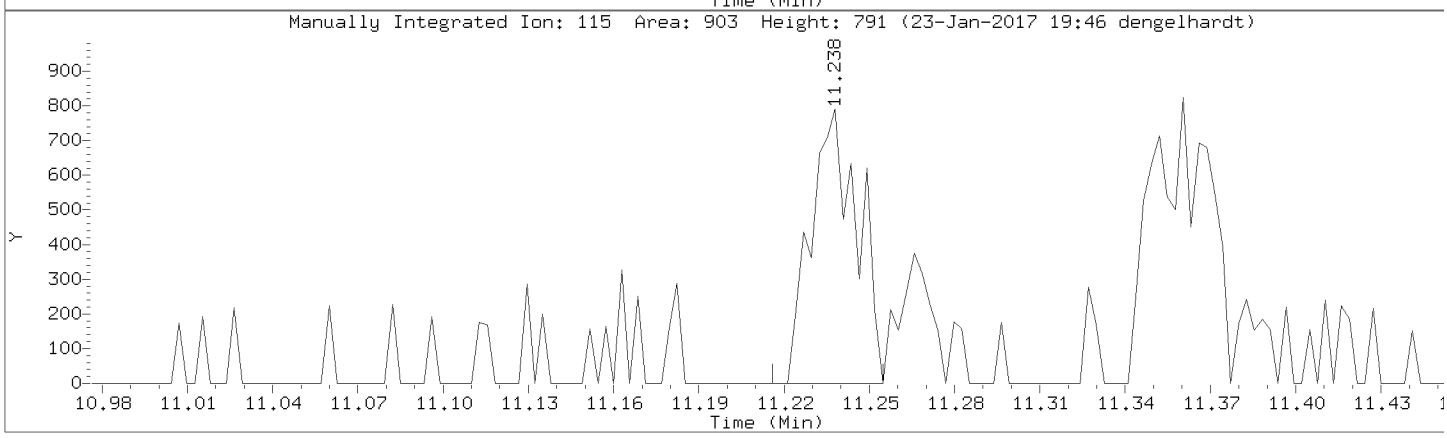
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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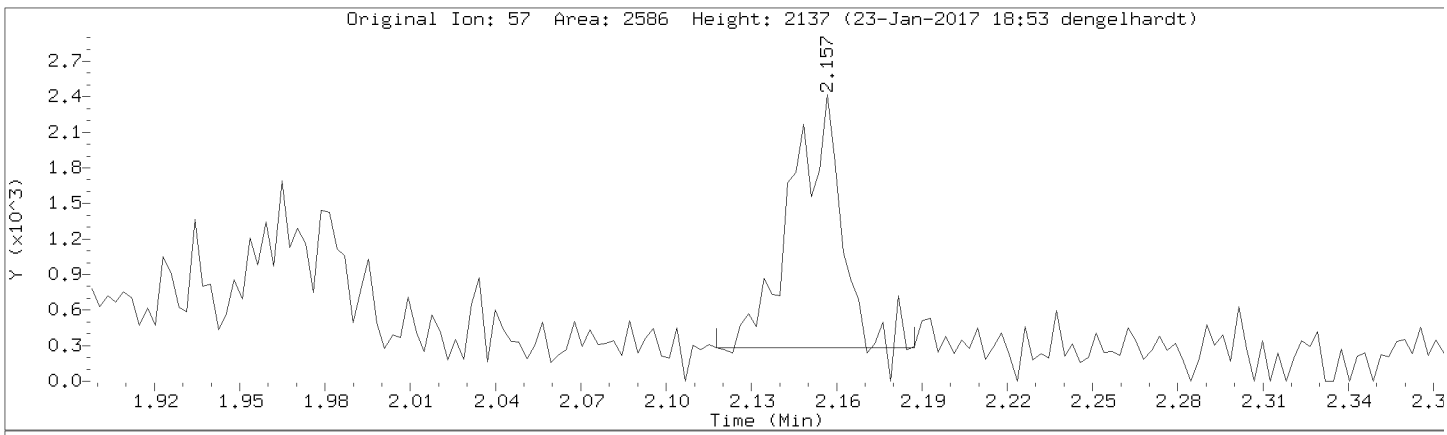
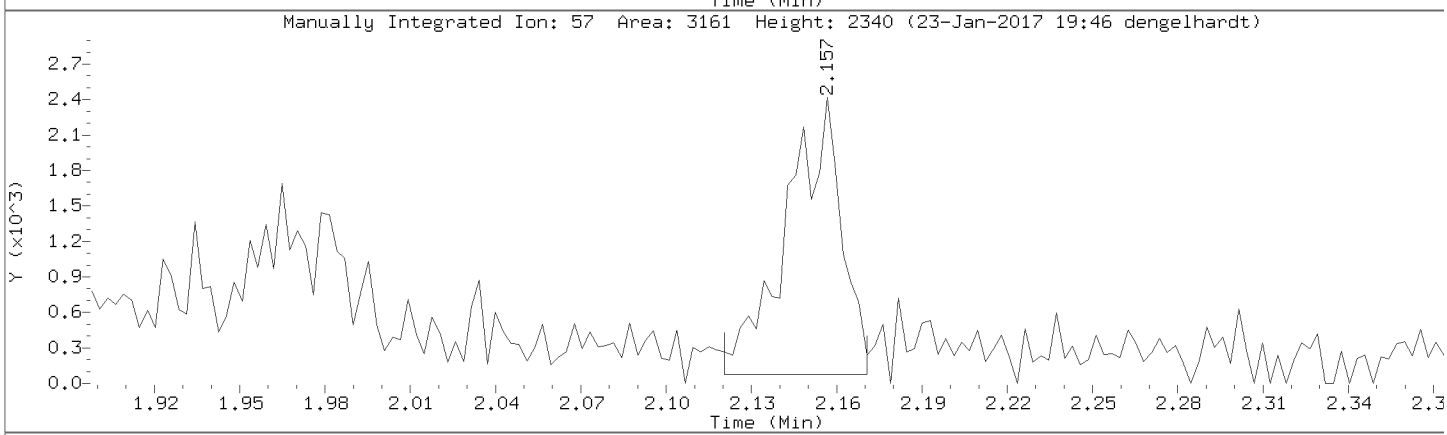
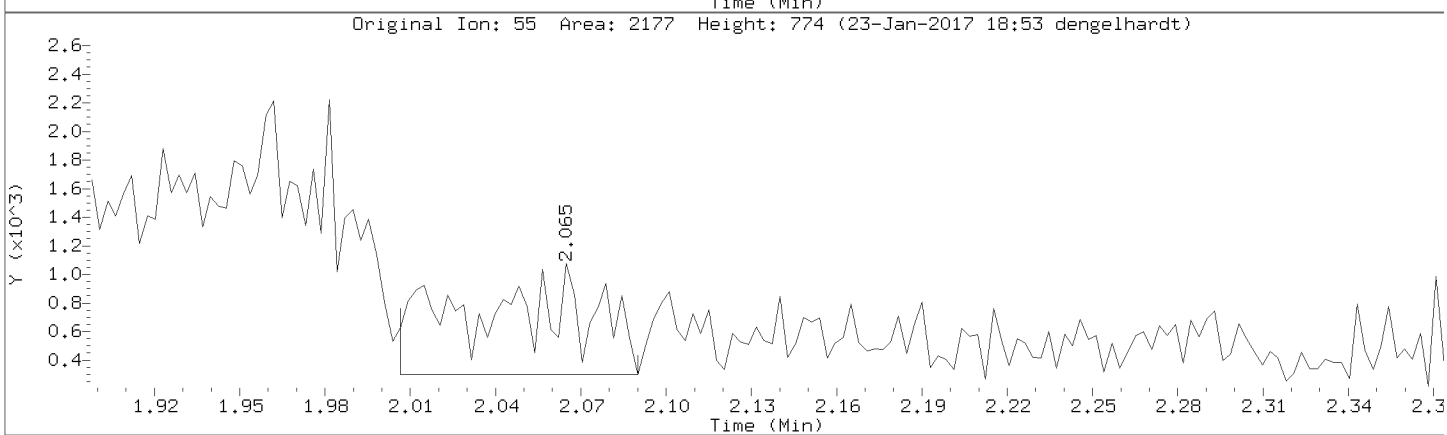
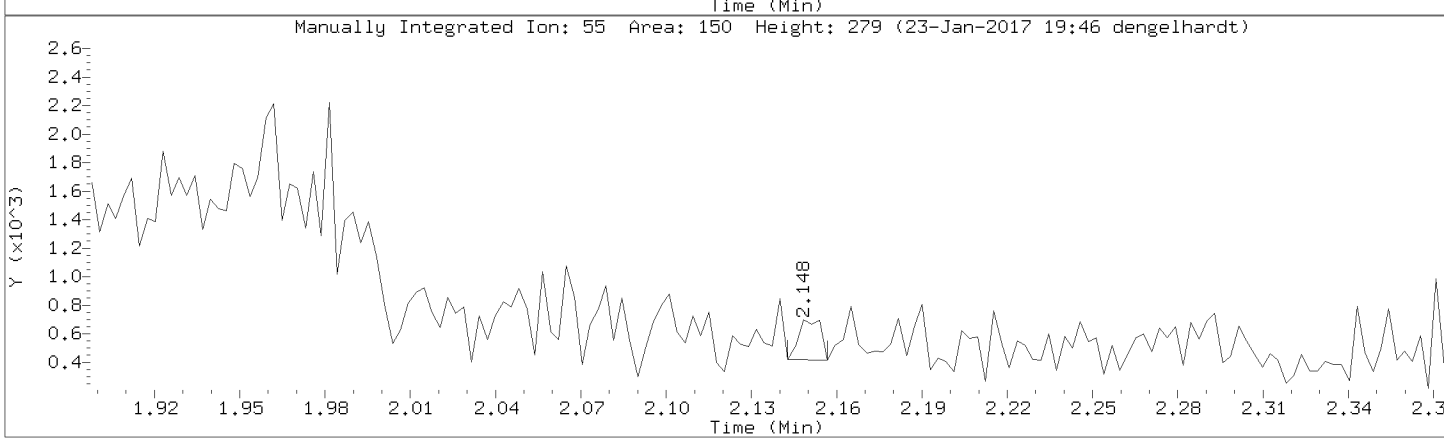
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-Hexane Review Code: LT
CAS Number:









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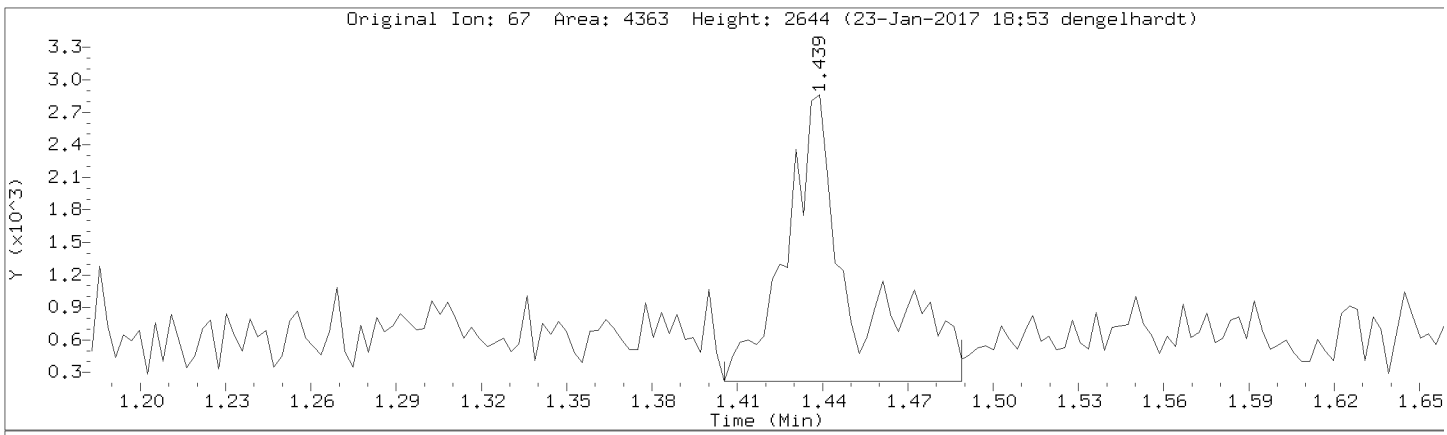
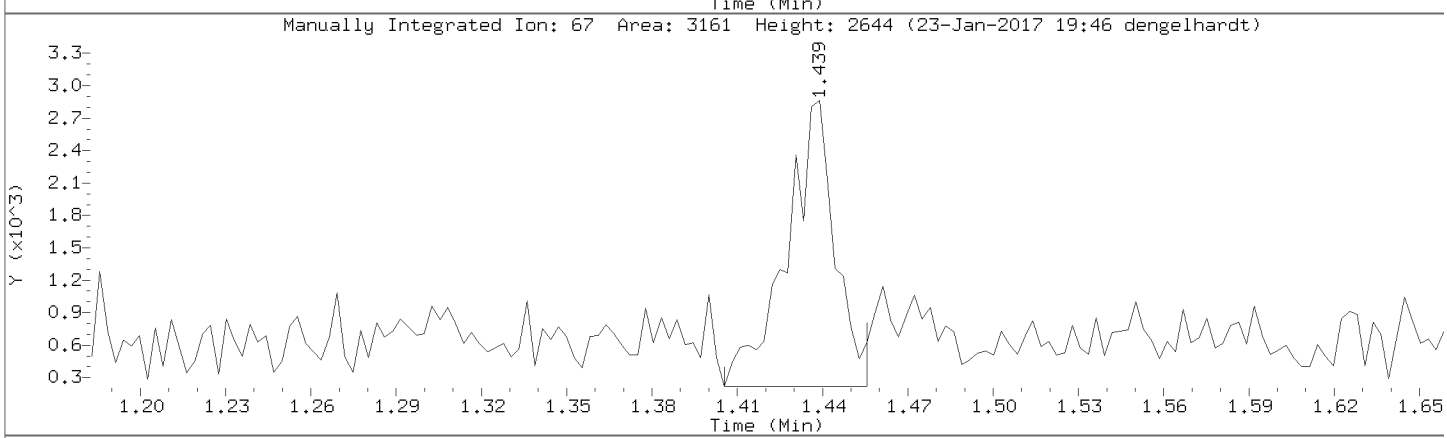
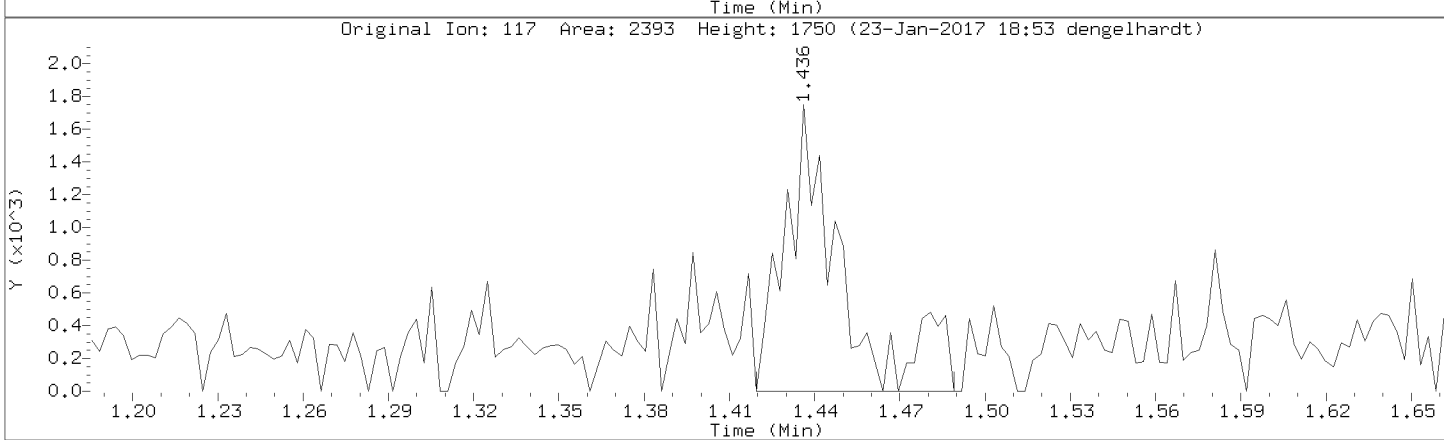
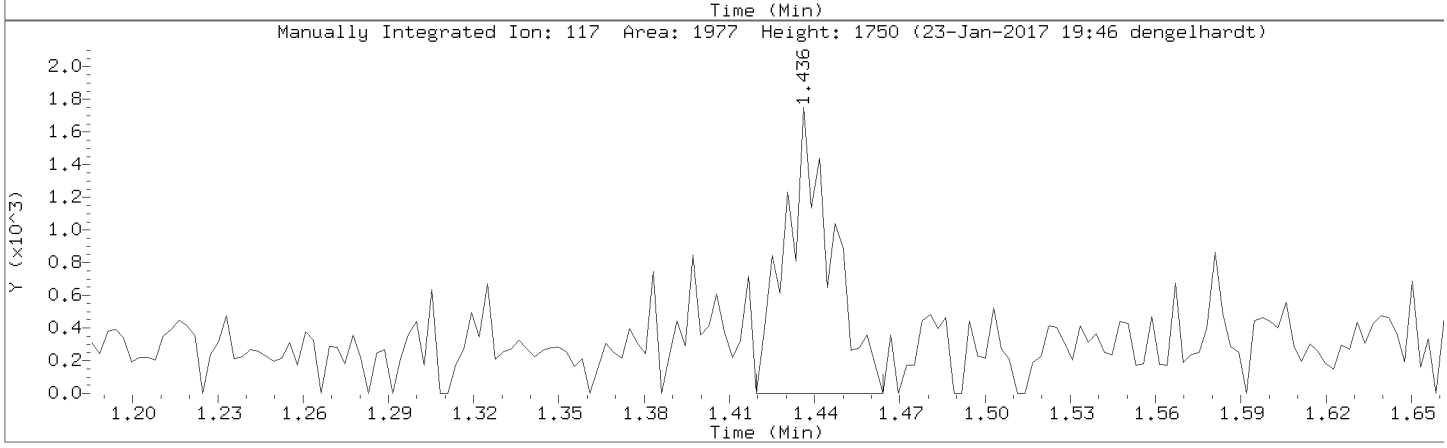
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-dichlorotrifluoroethane Review Code: GT
CAS Number: 354-23-4









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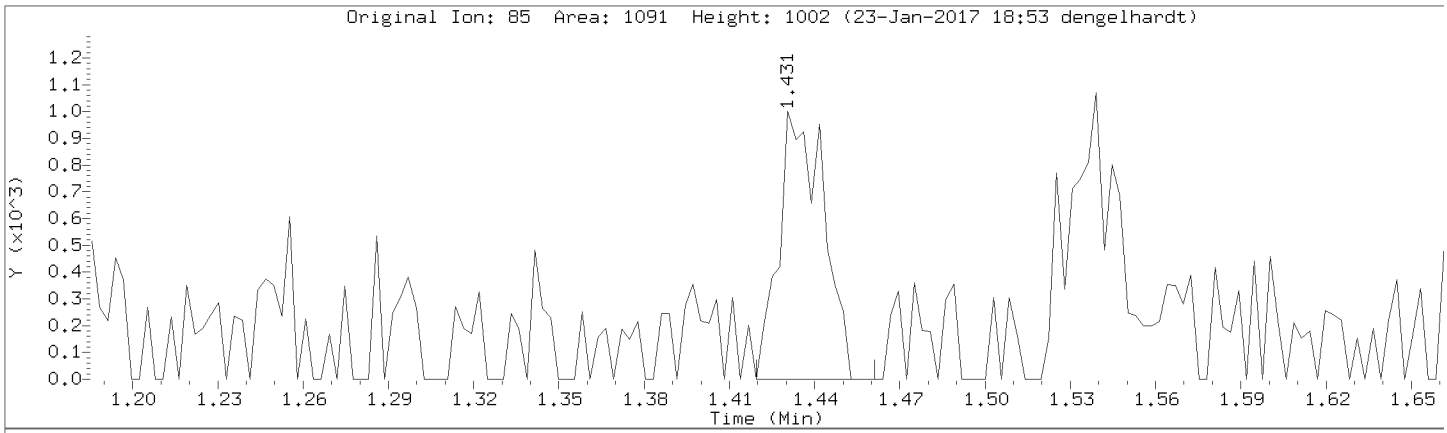
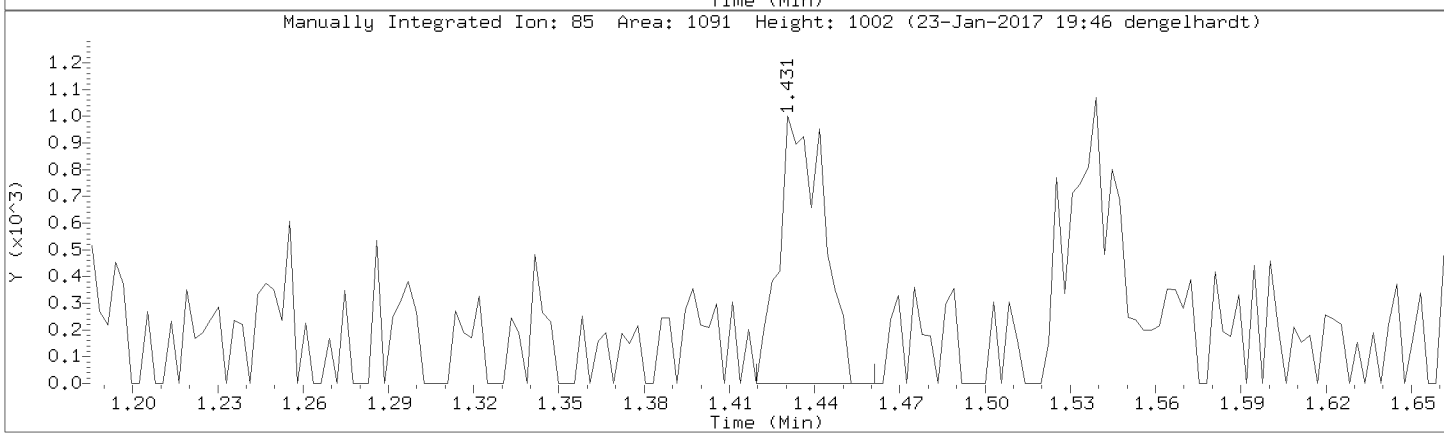
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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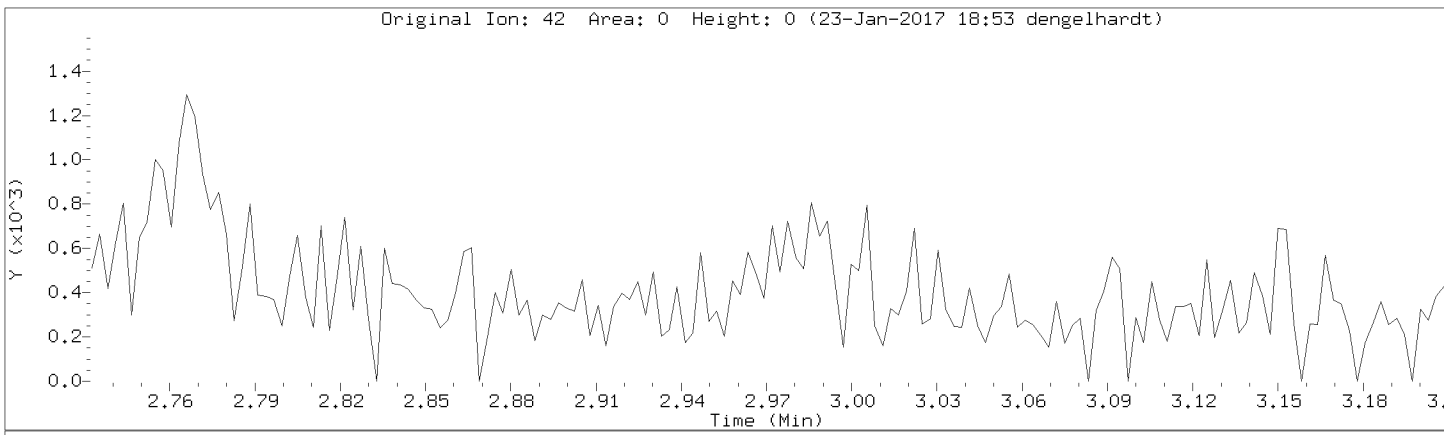
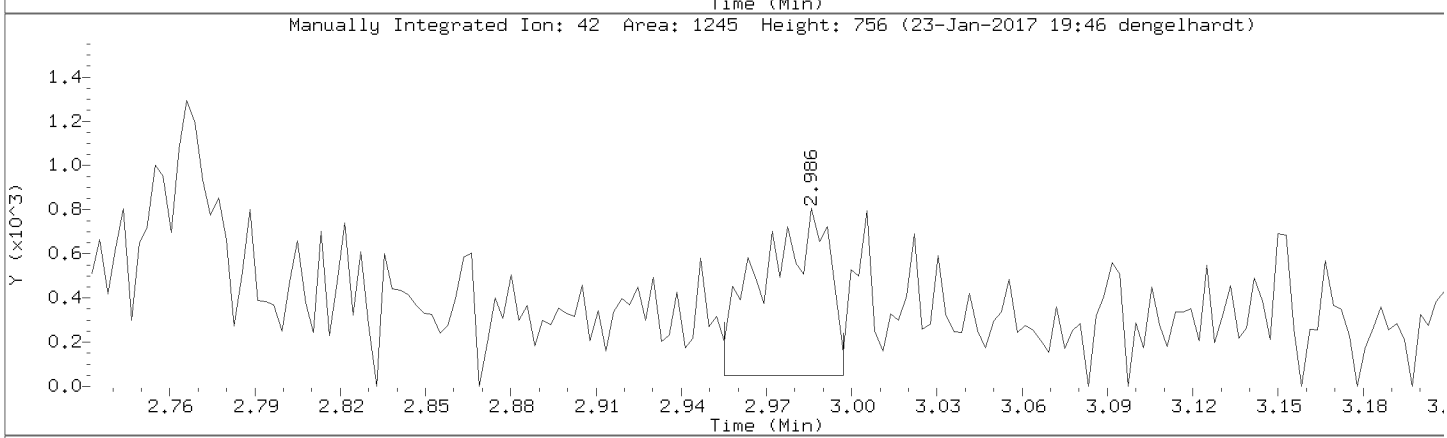
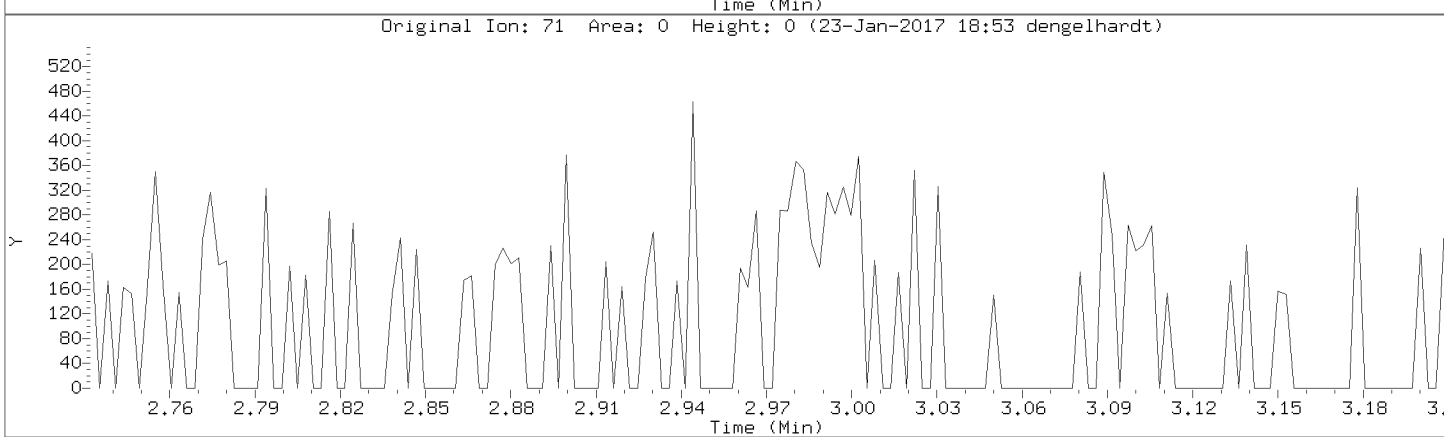
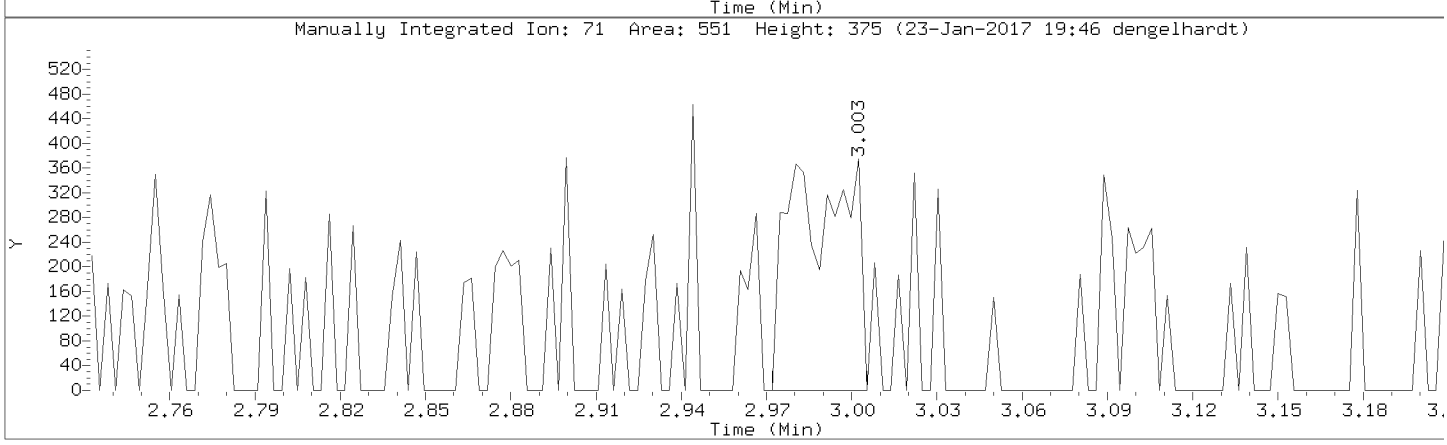
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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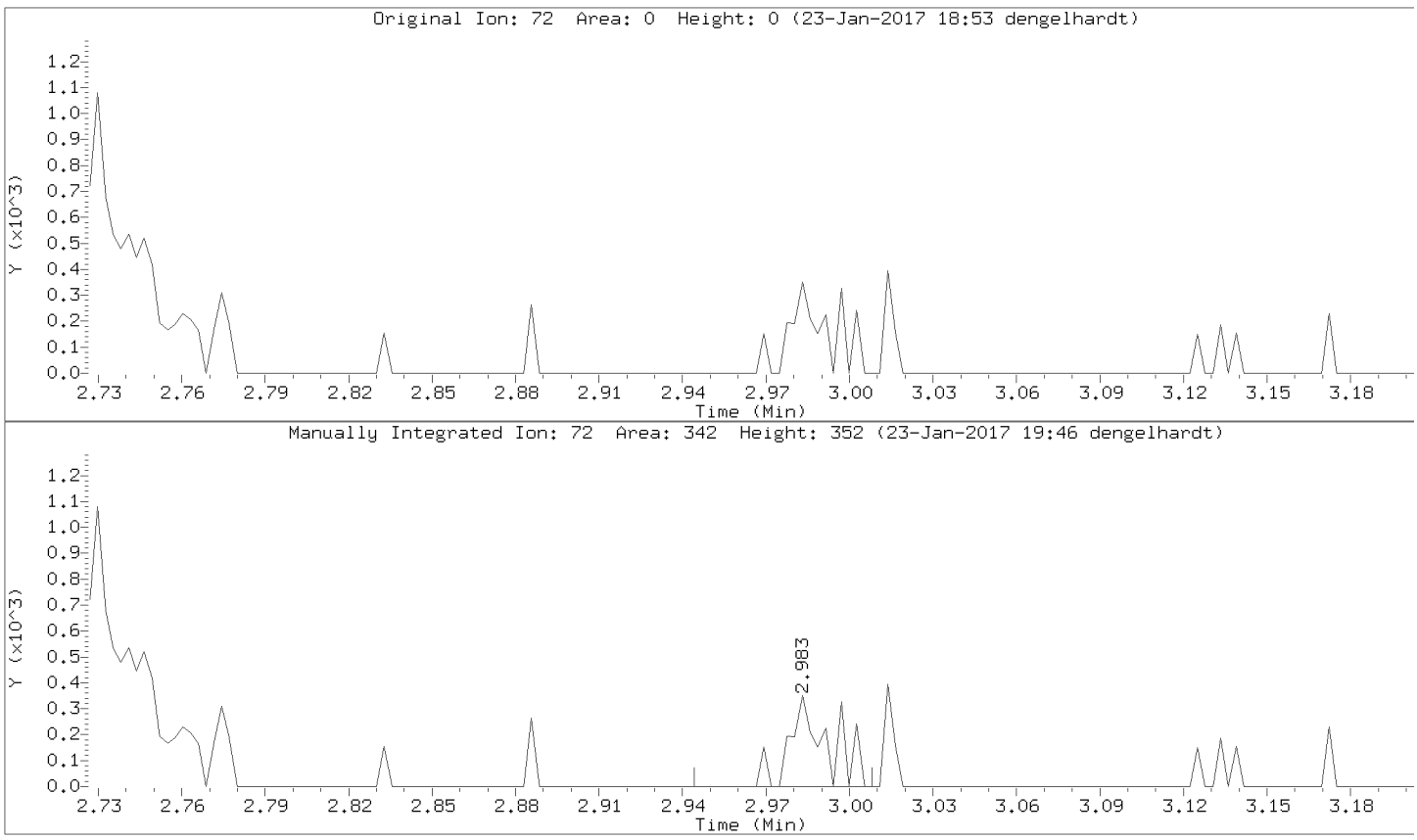
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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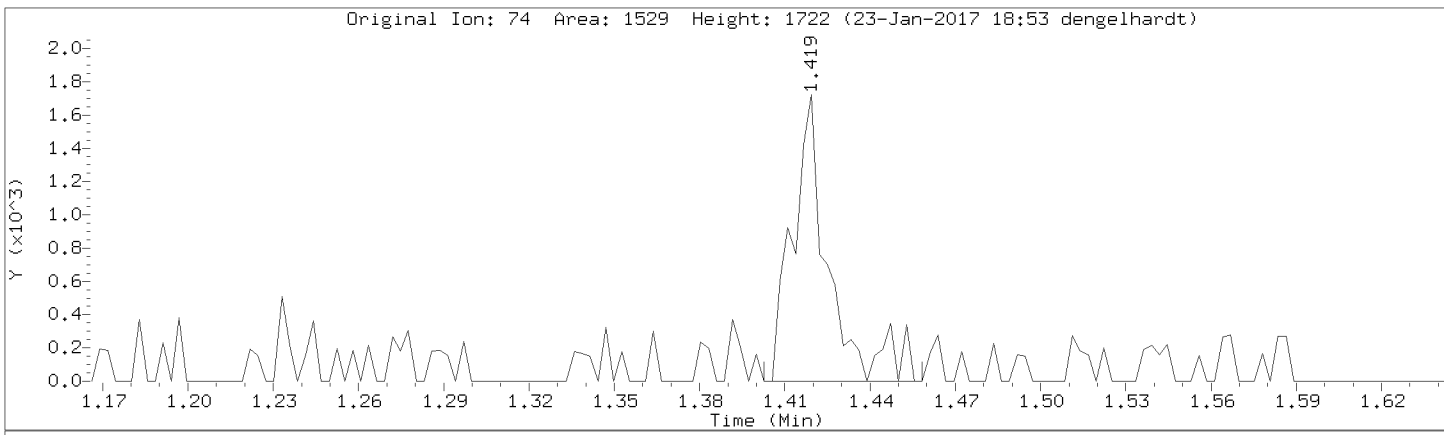
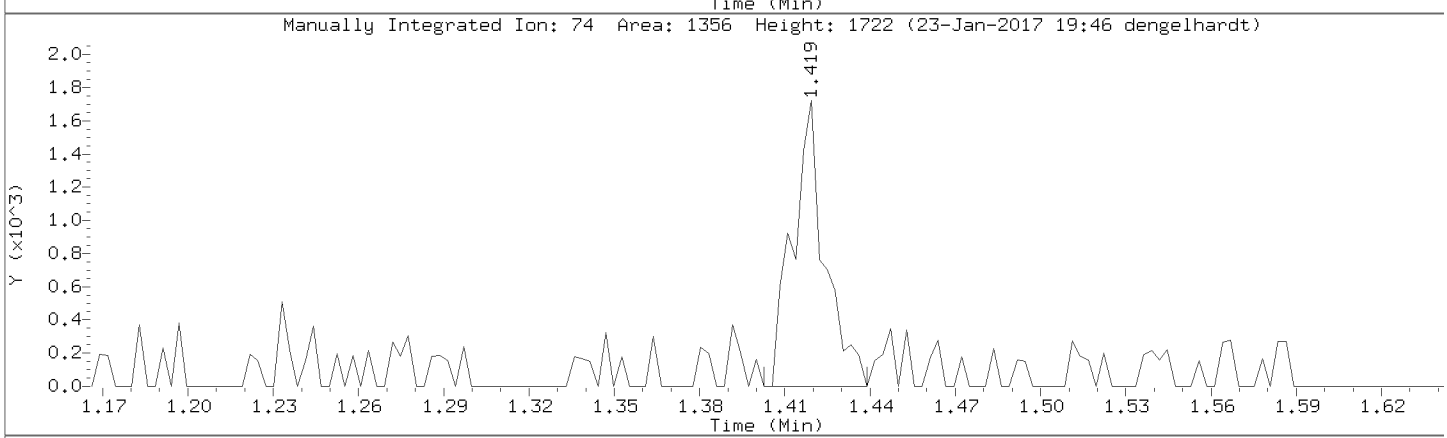
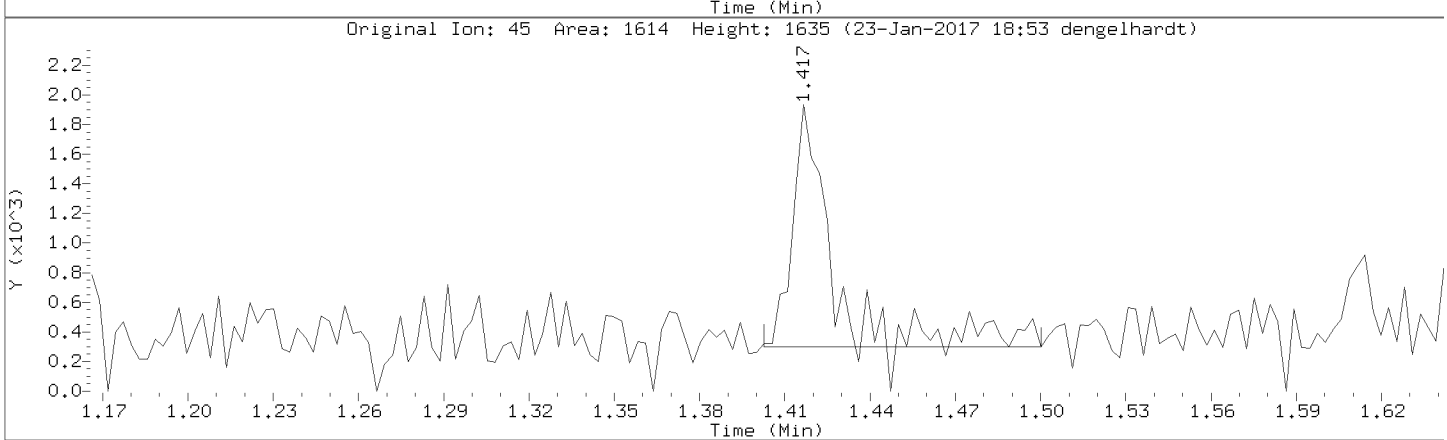
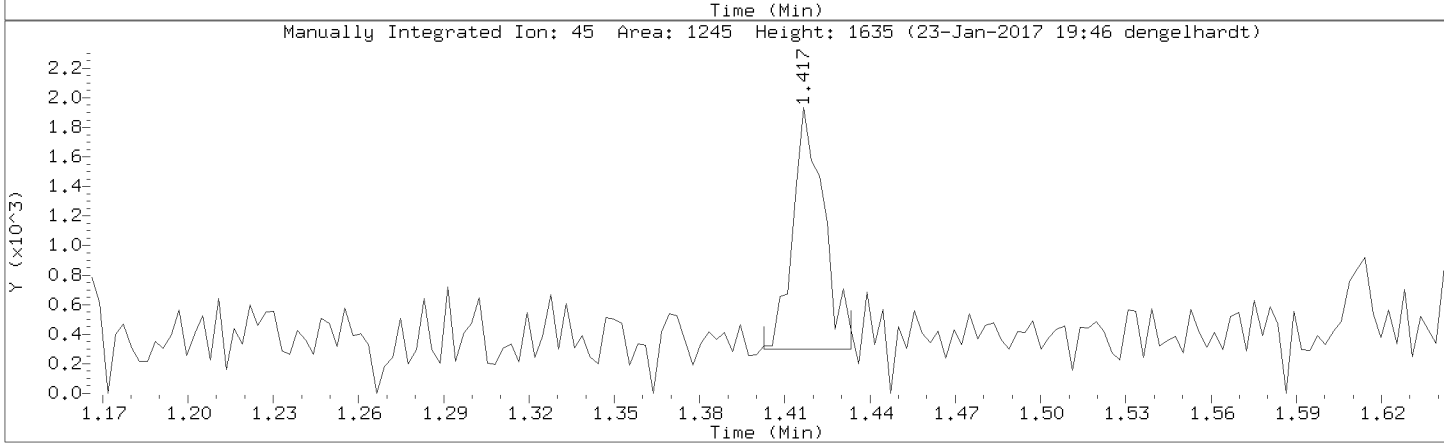
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Diethyl ether Review Code: GT
CAS Number: 60-29-7









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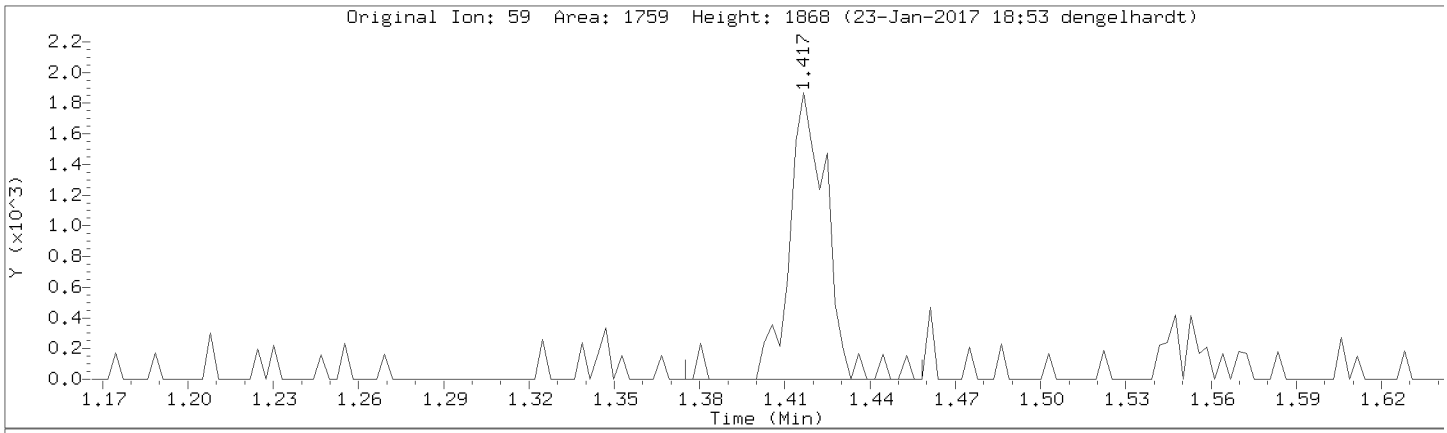
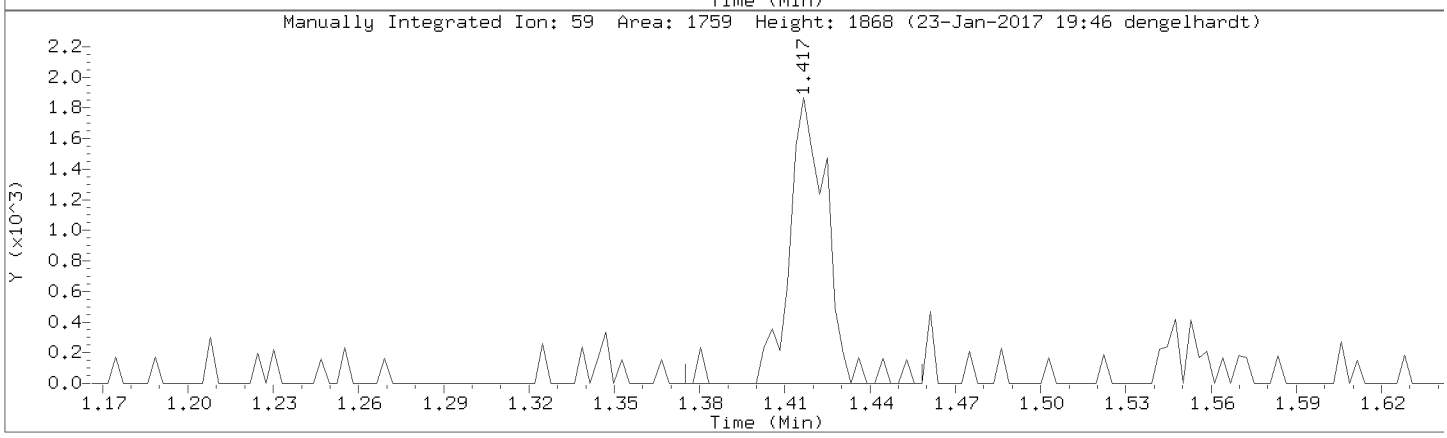
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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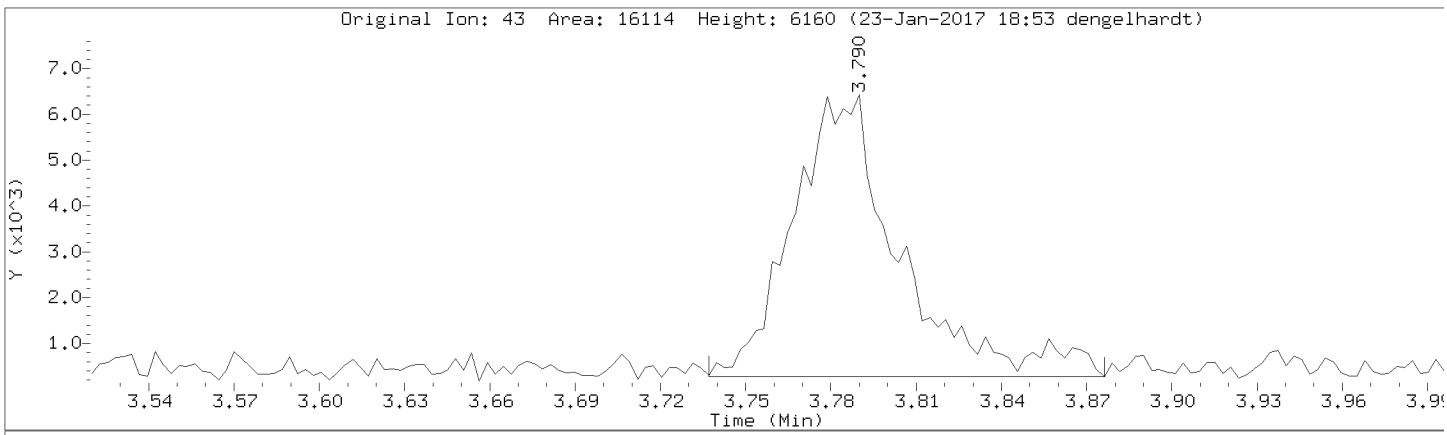
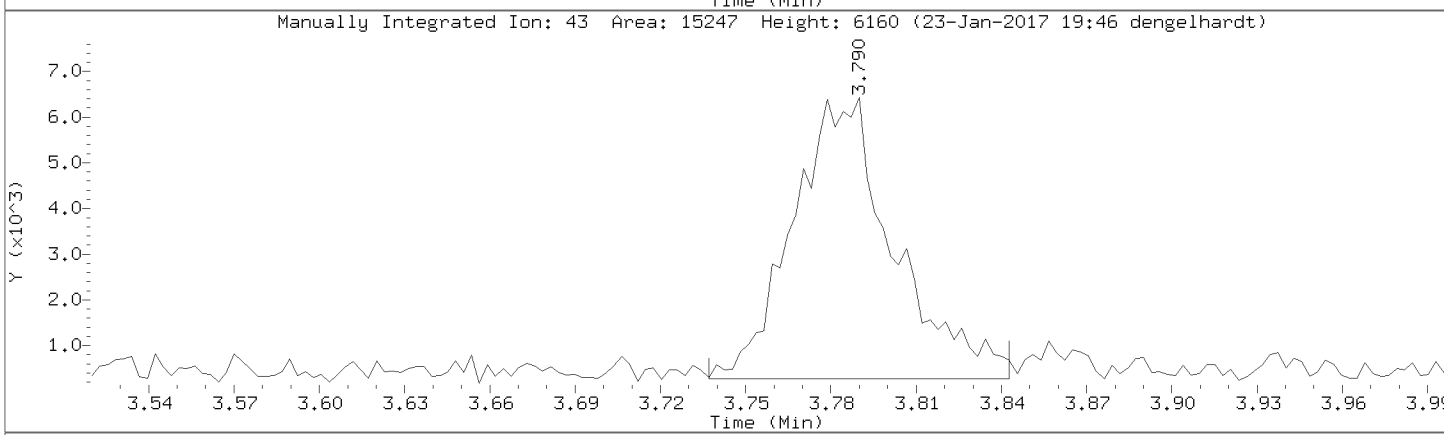
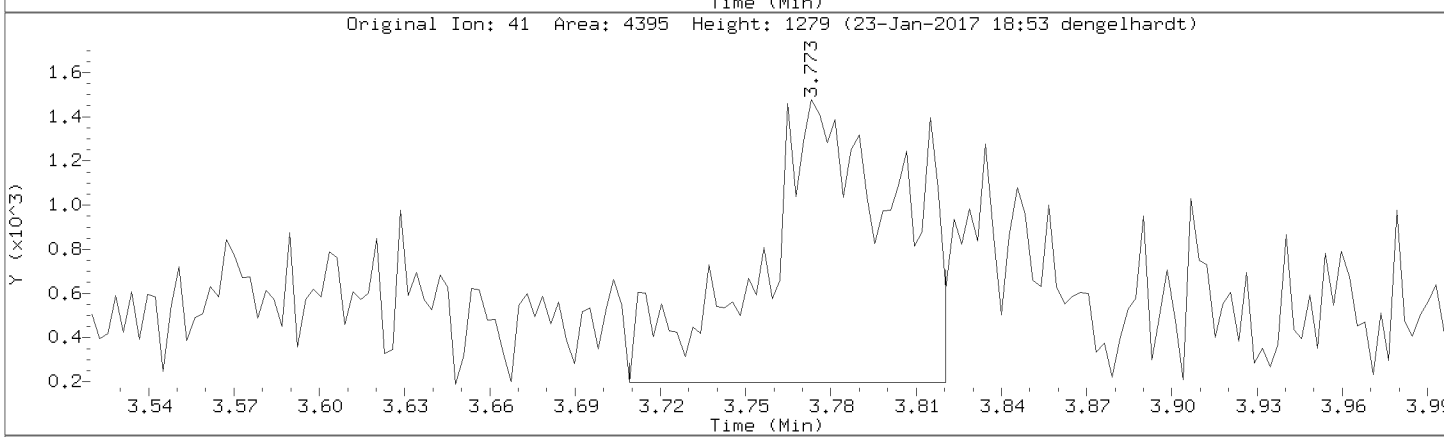
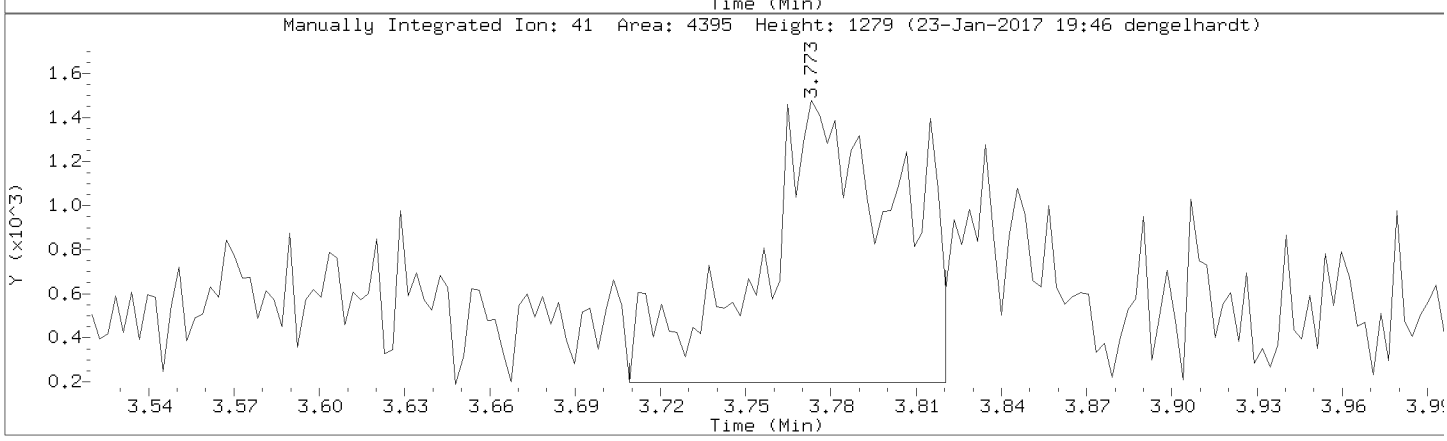
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1









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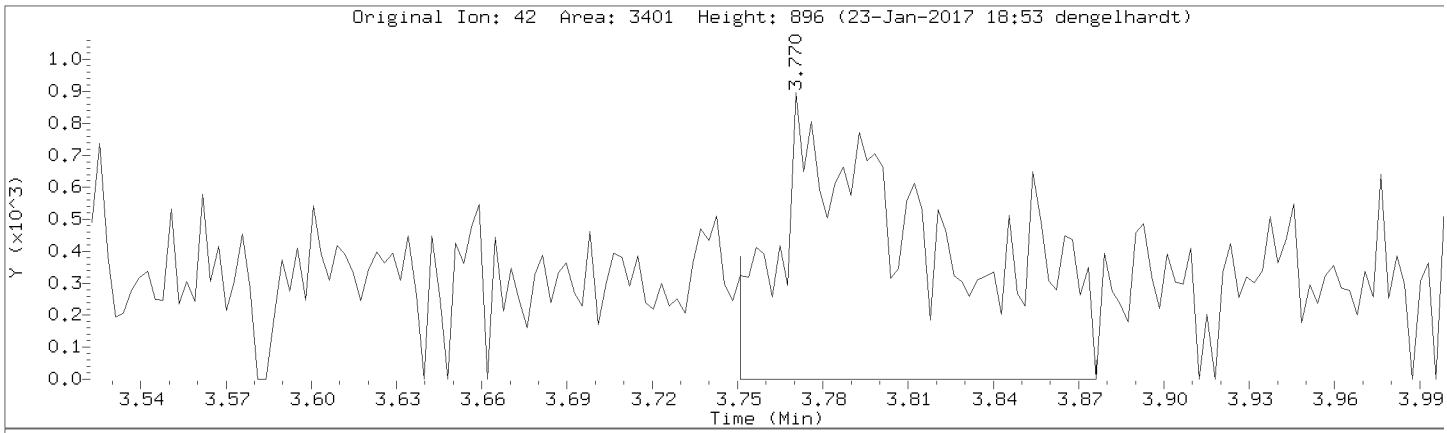
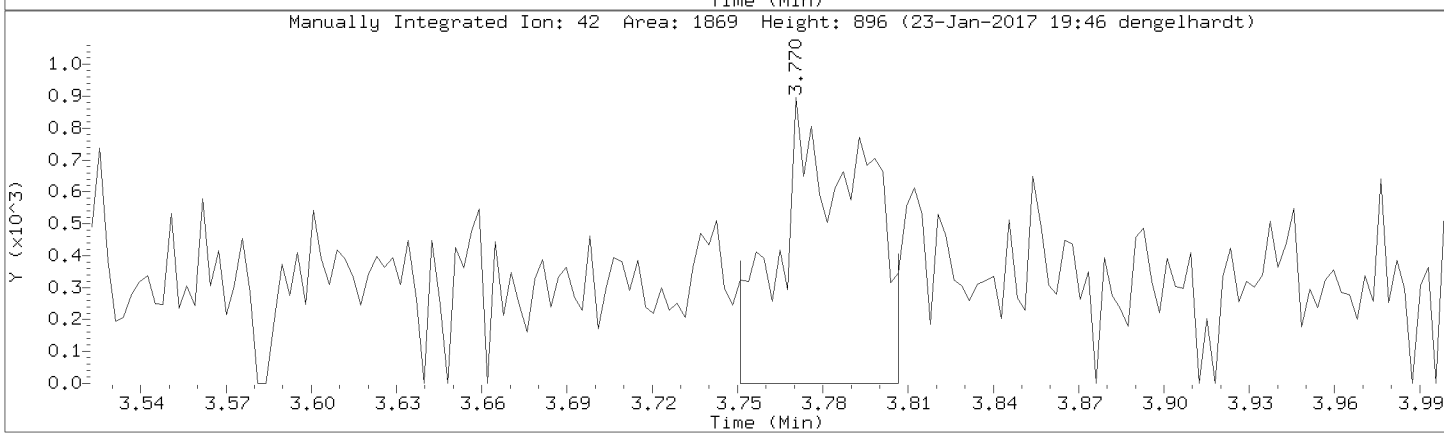
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0





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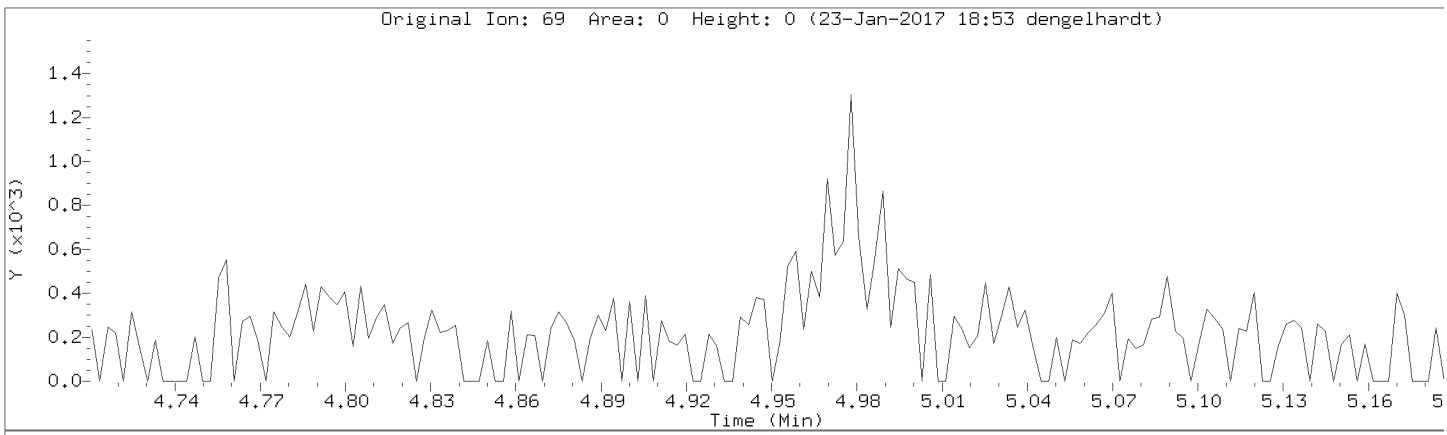
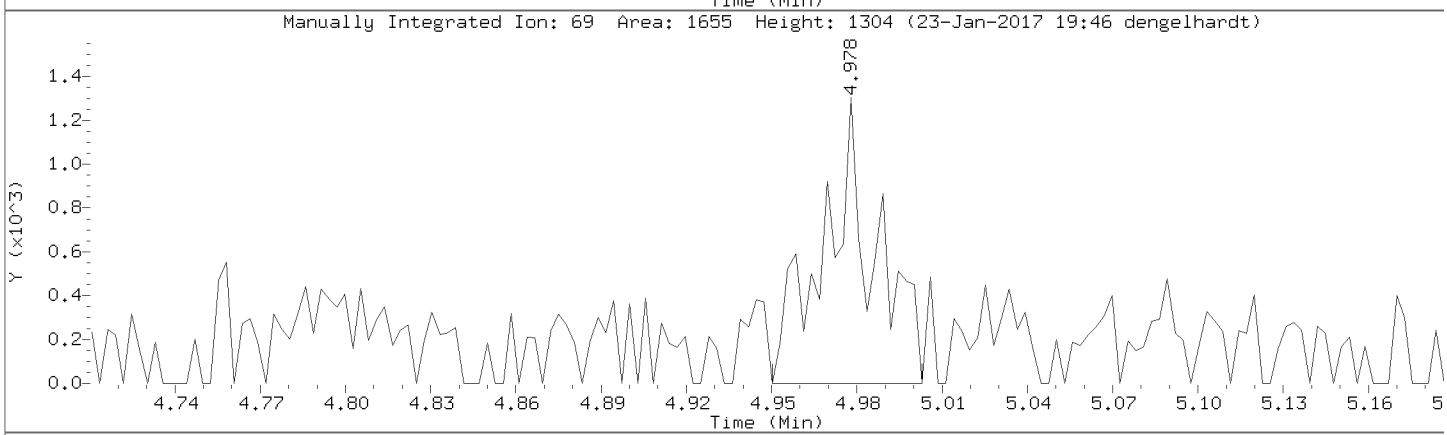
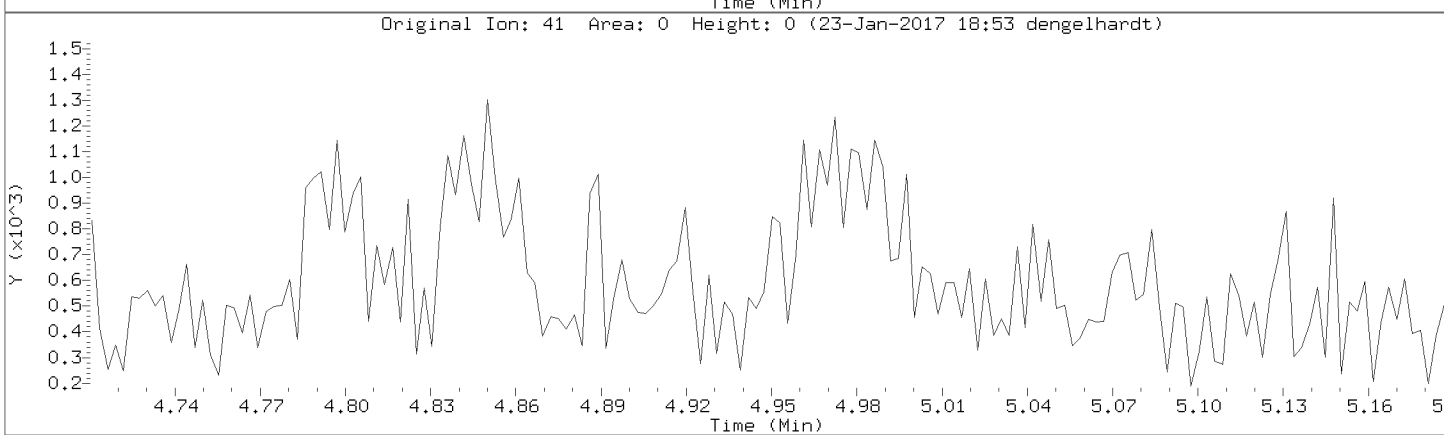
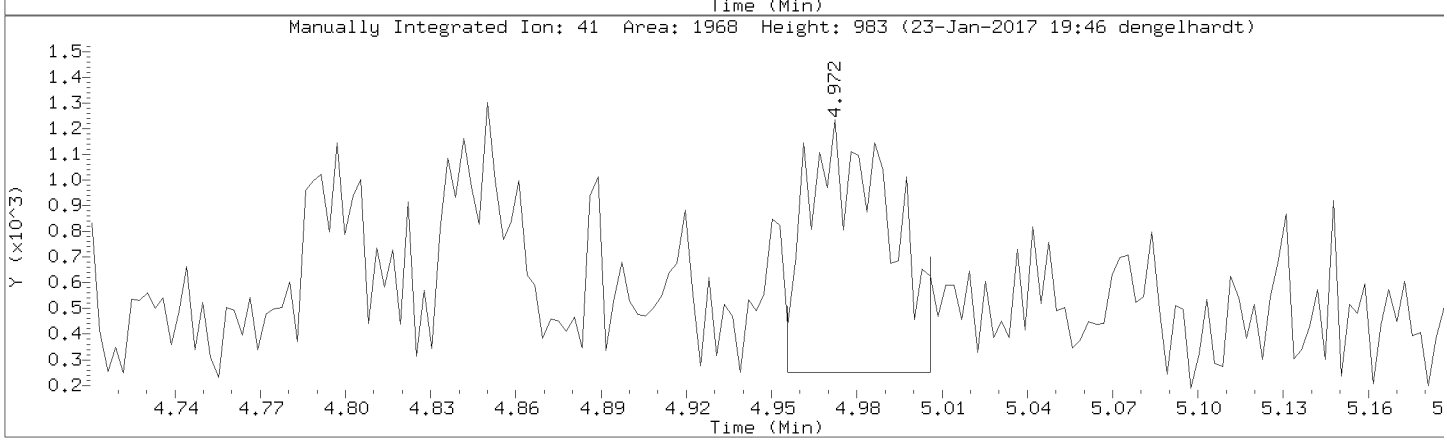
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

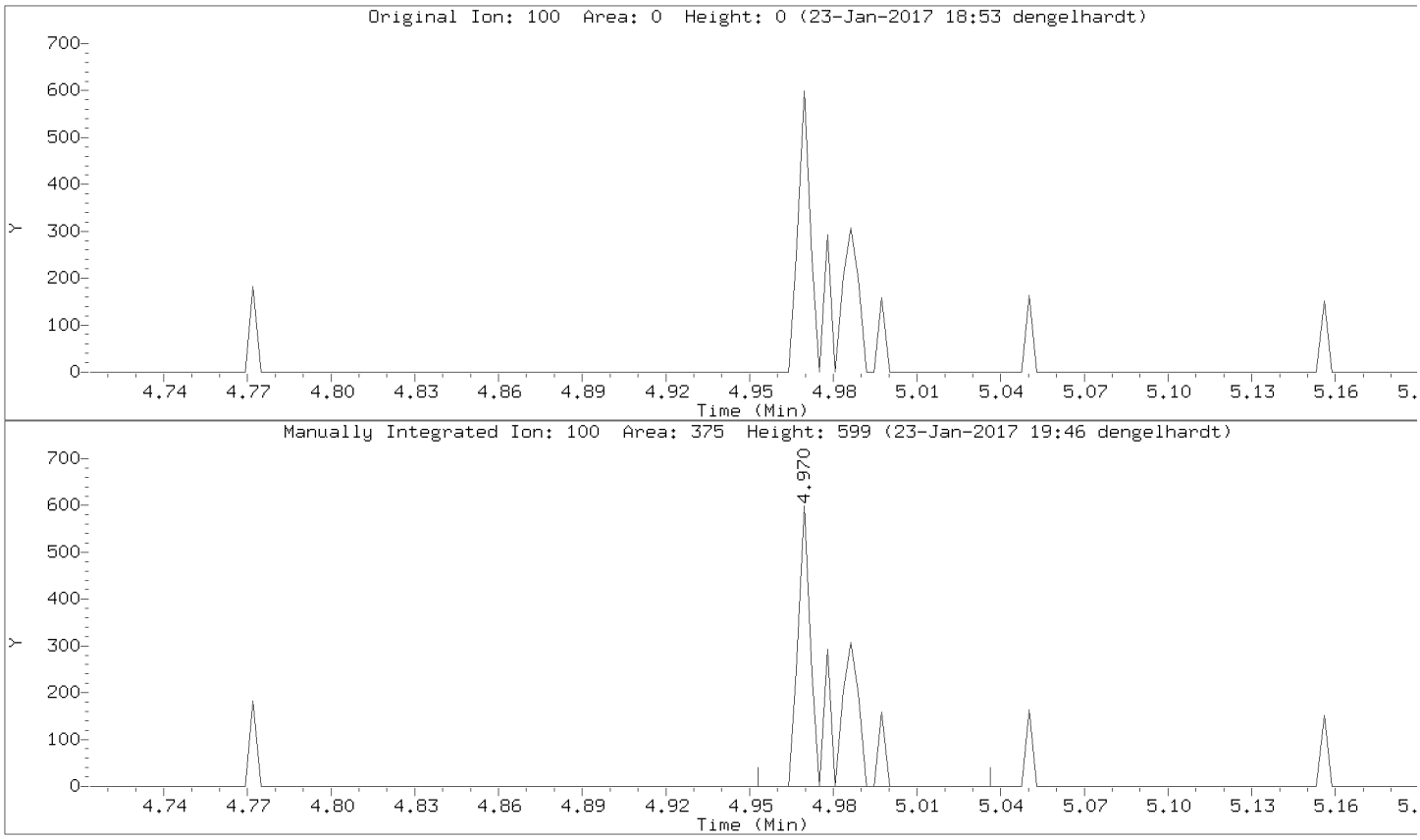








Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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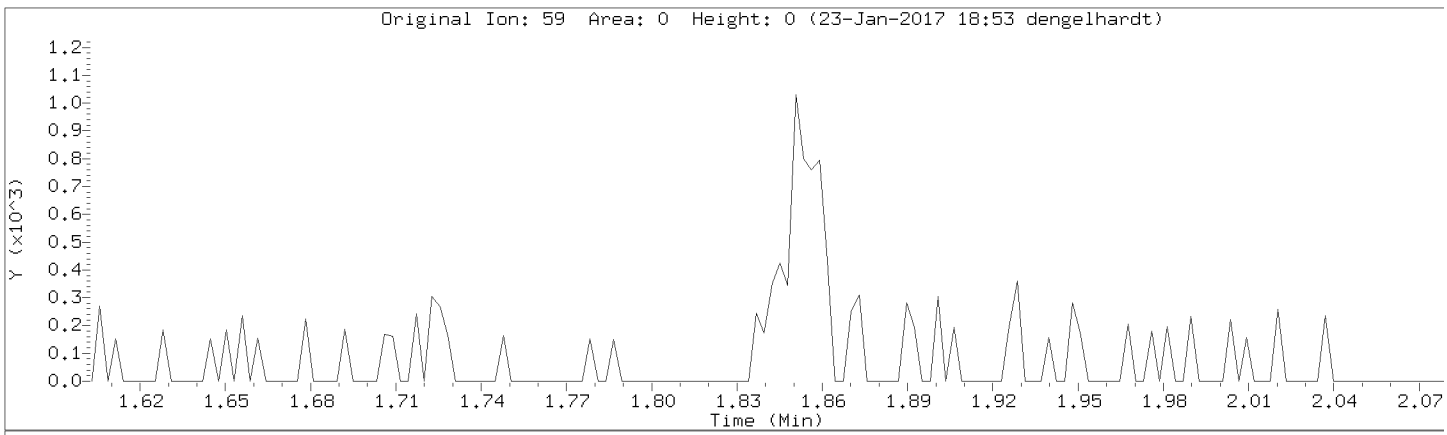
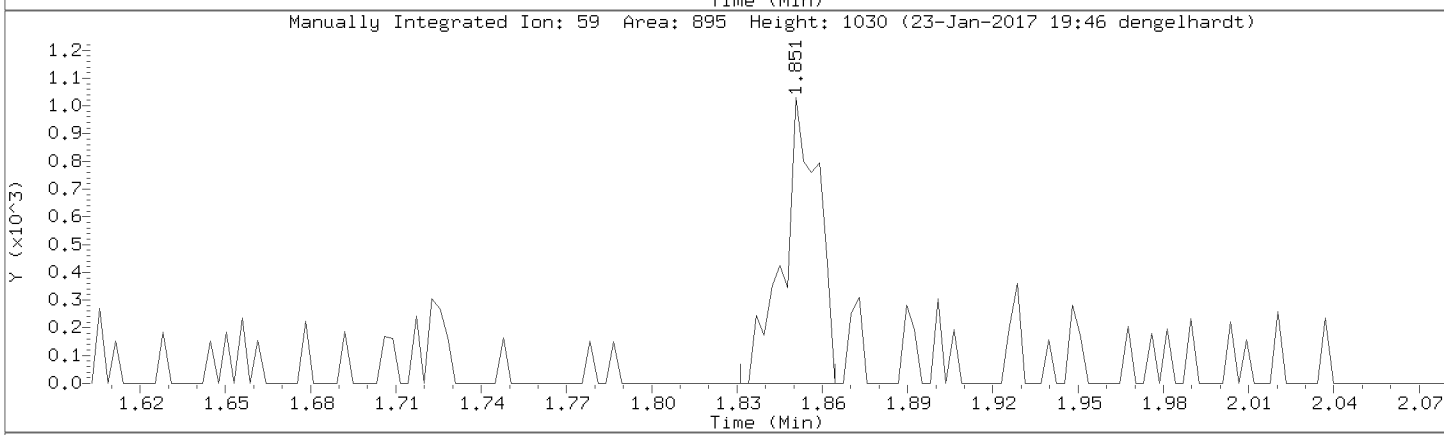
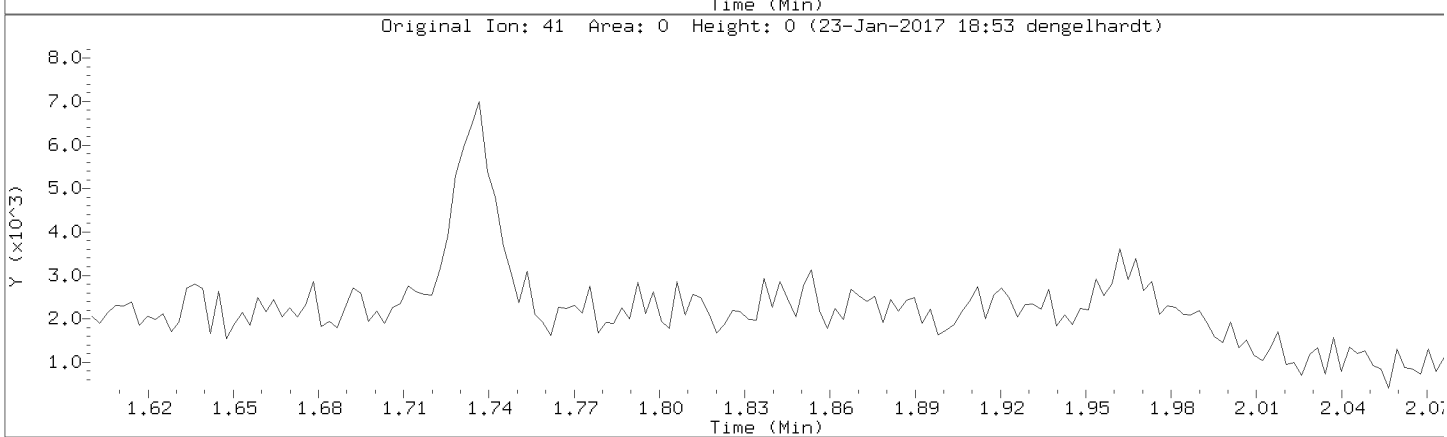
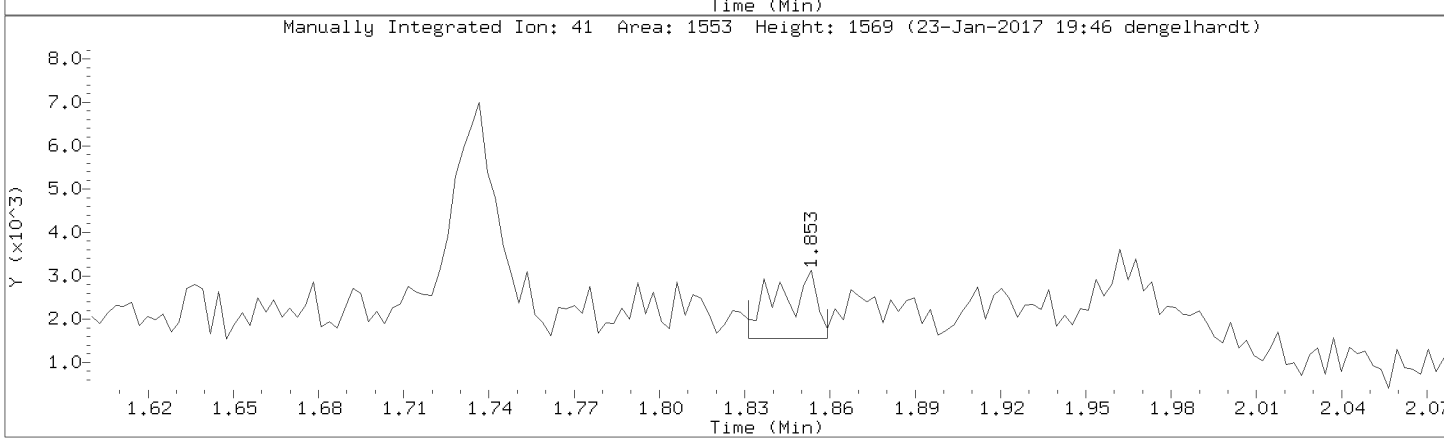
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0



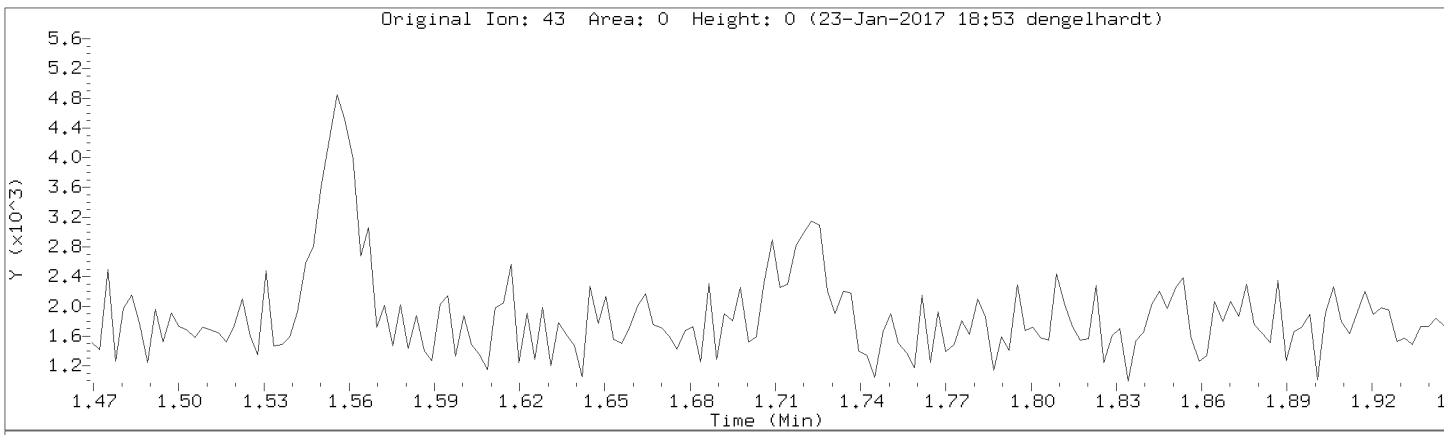


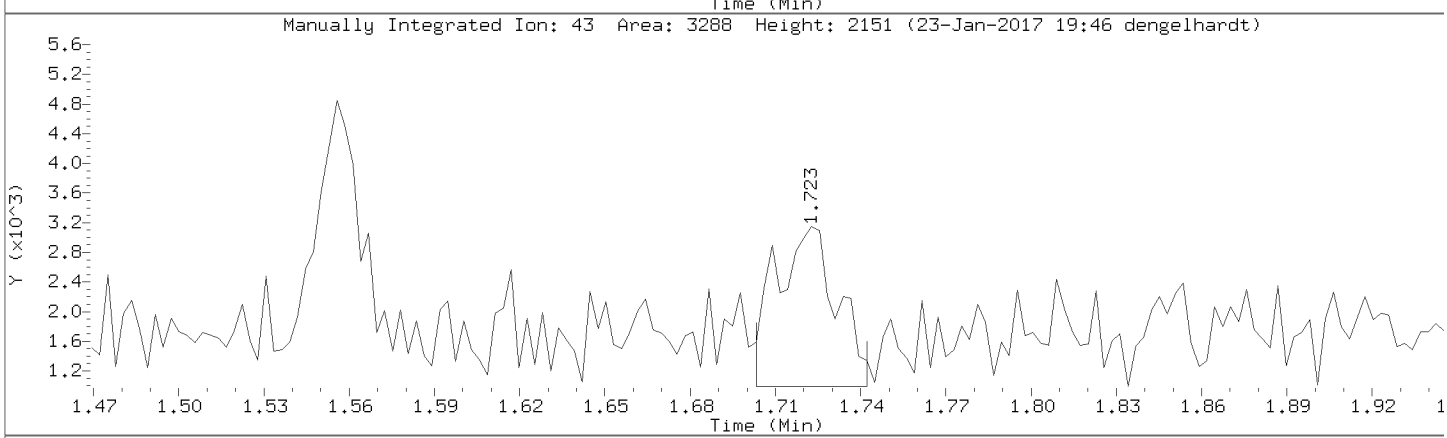


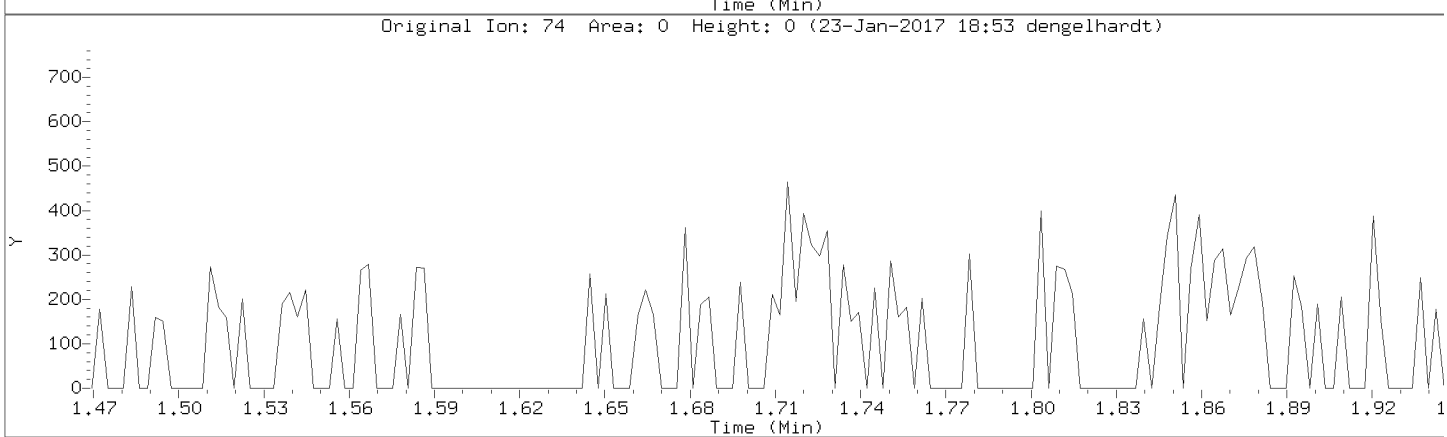


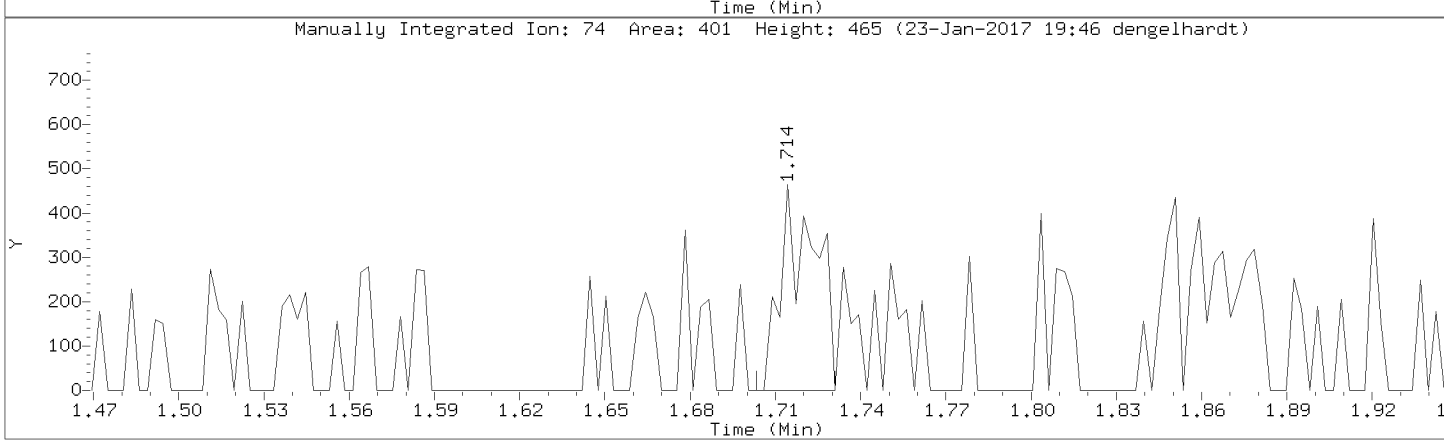
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a01cal1.d
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9









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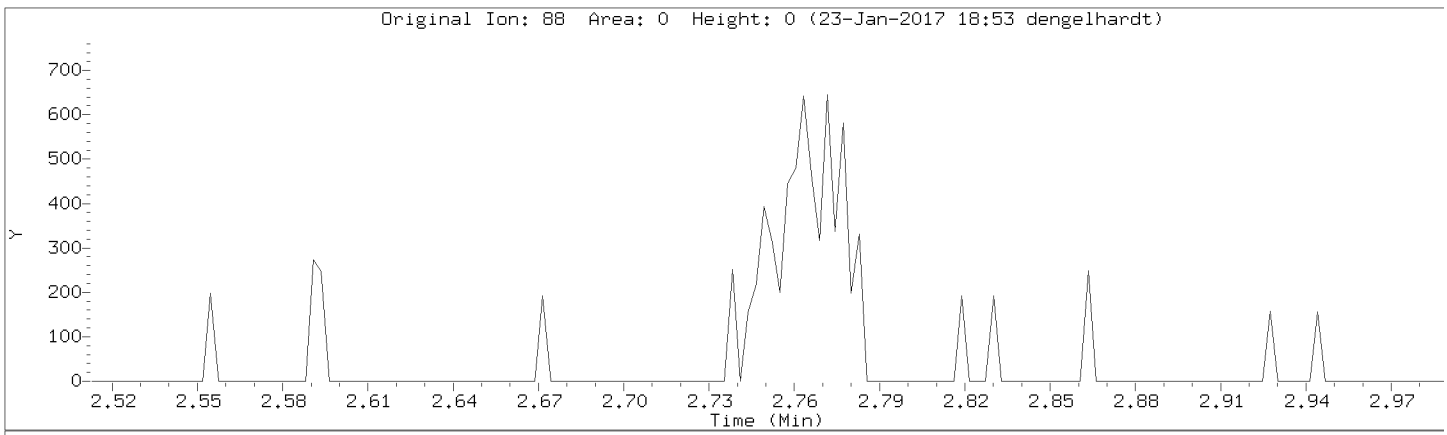
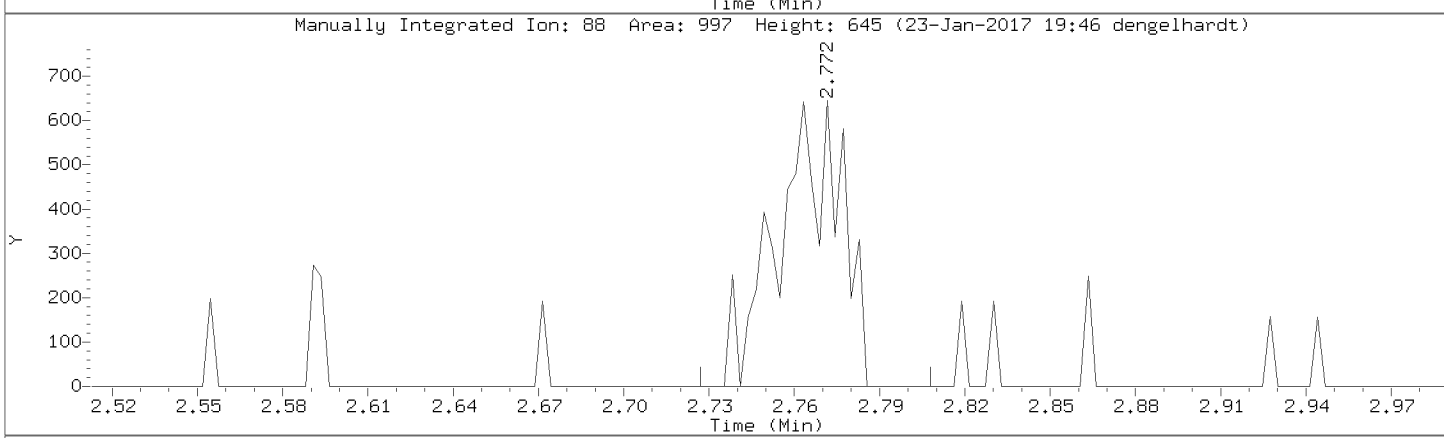
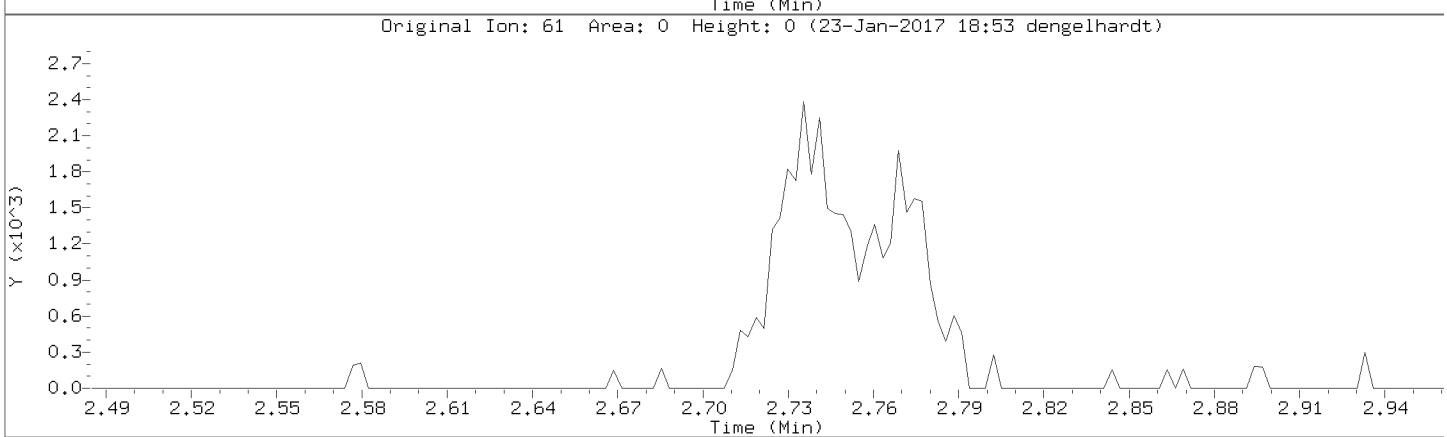
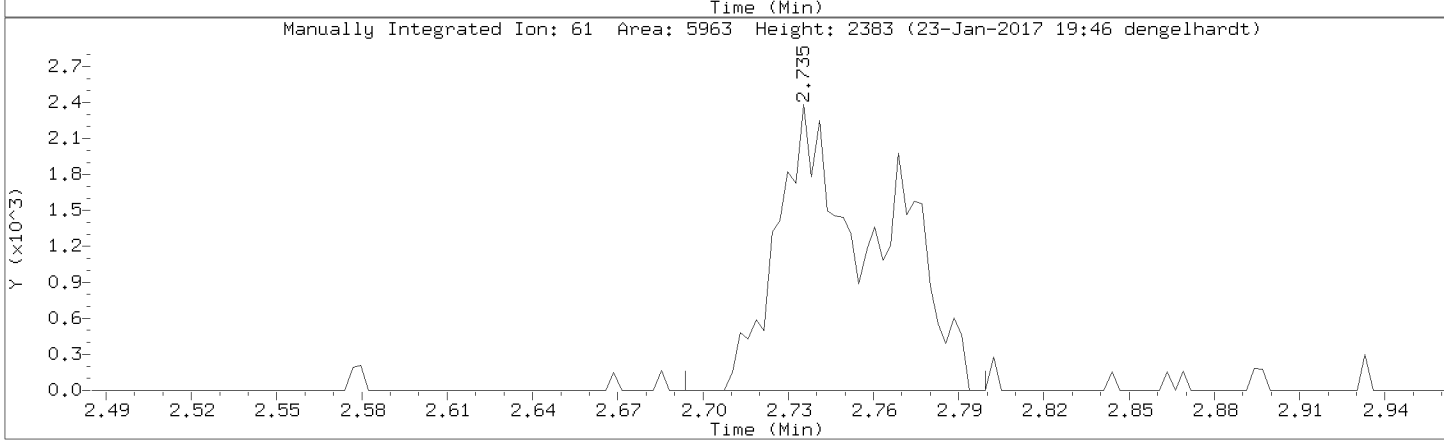
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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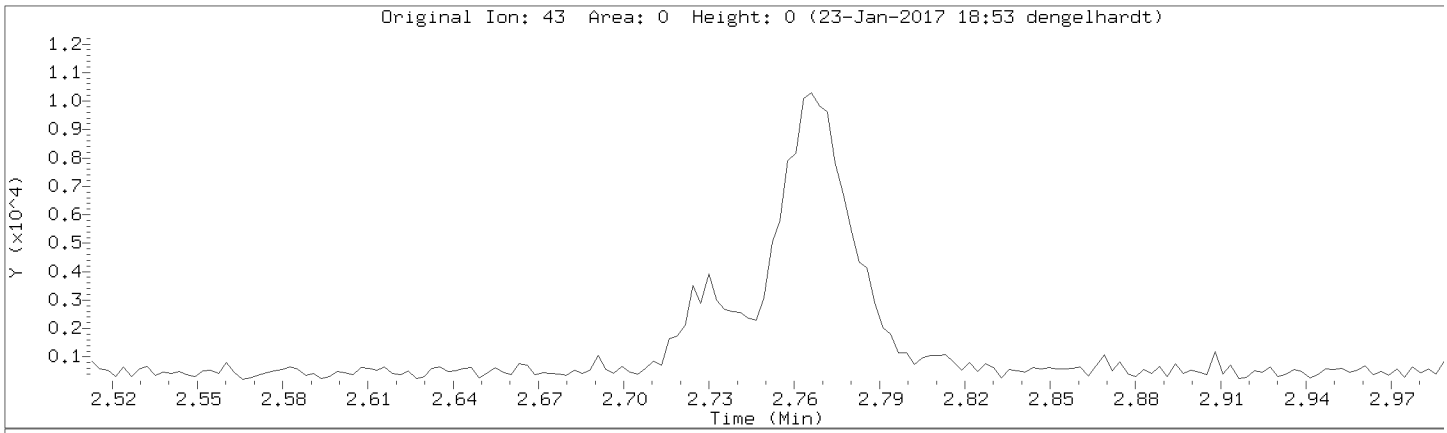
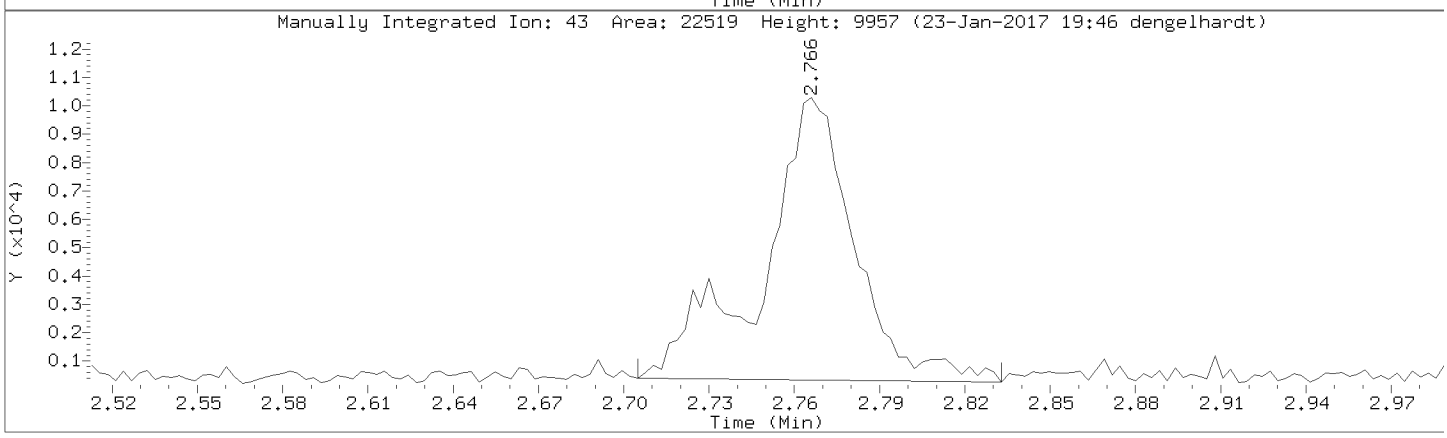
Lab Sample ID: 8260-CAL1,140426:0





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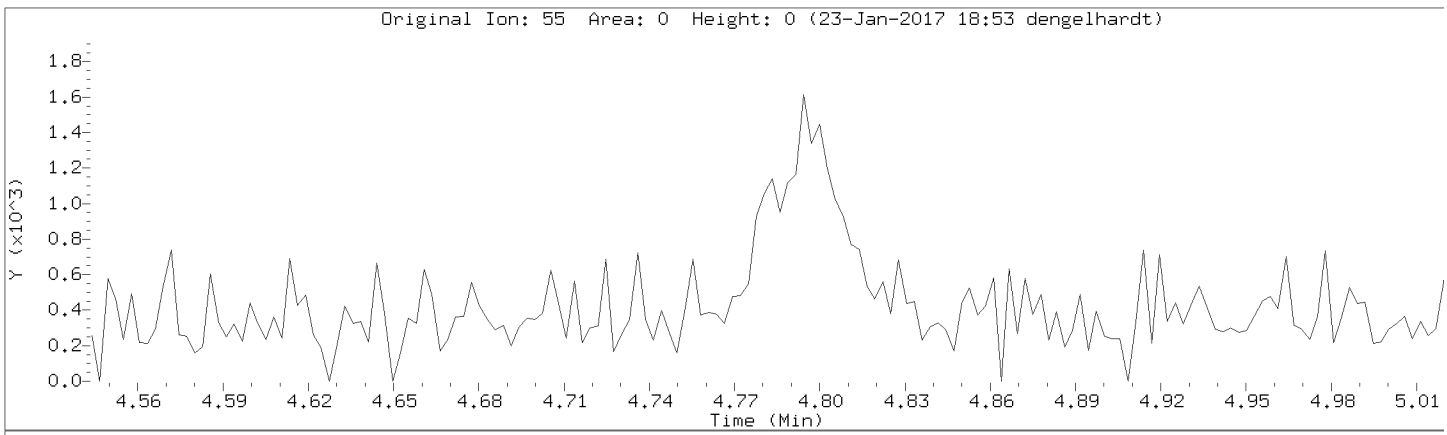
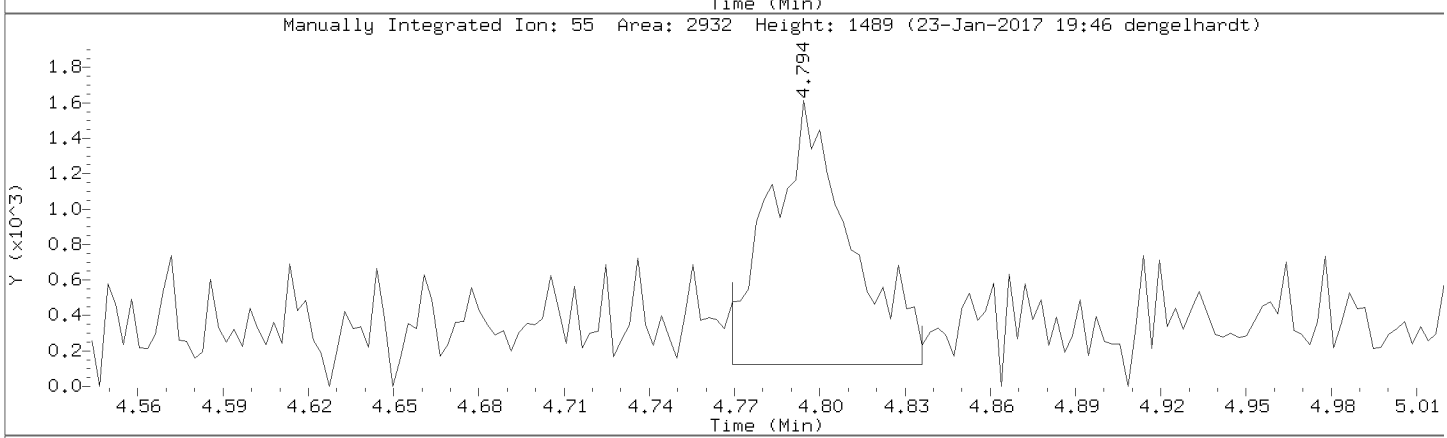
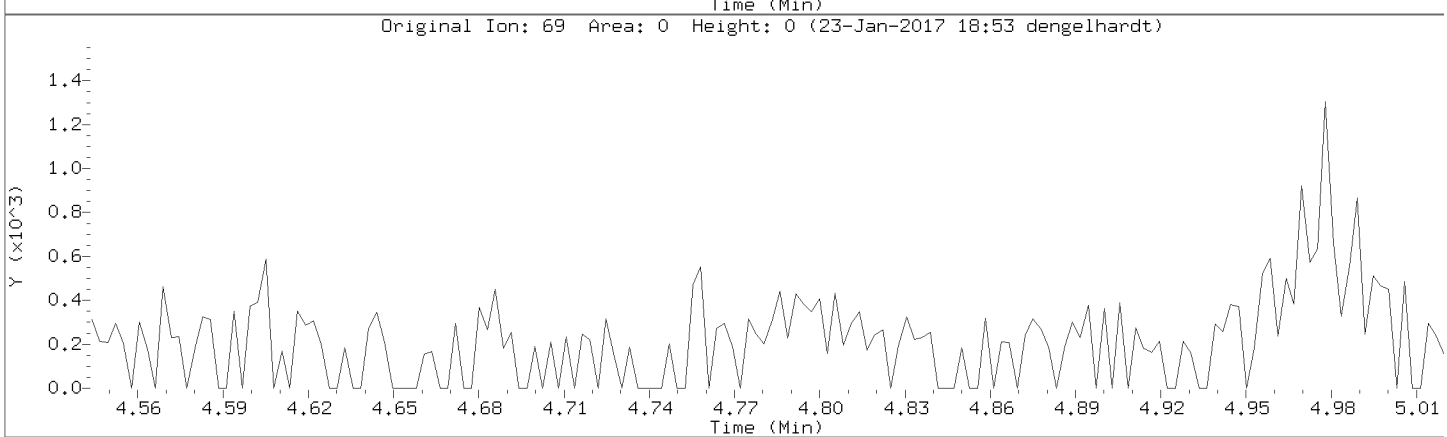
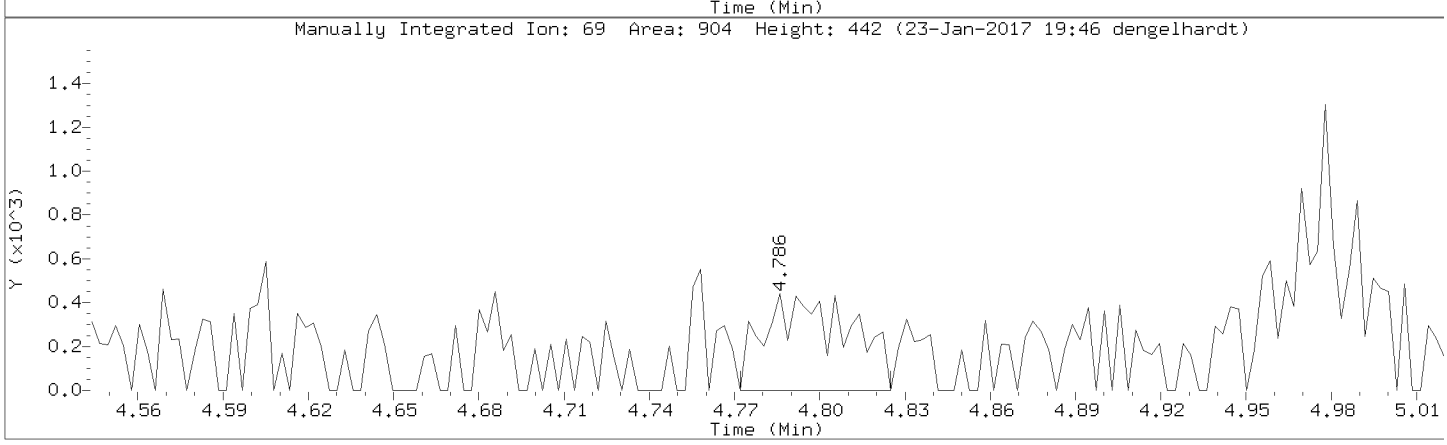
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methylcyclohexane Review Code: NI
CAS Number: 108-87-2









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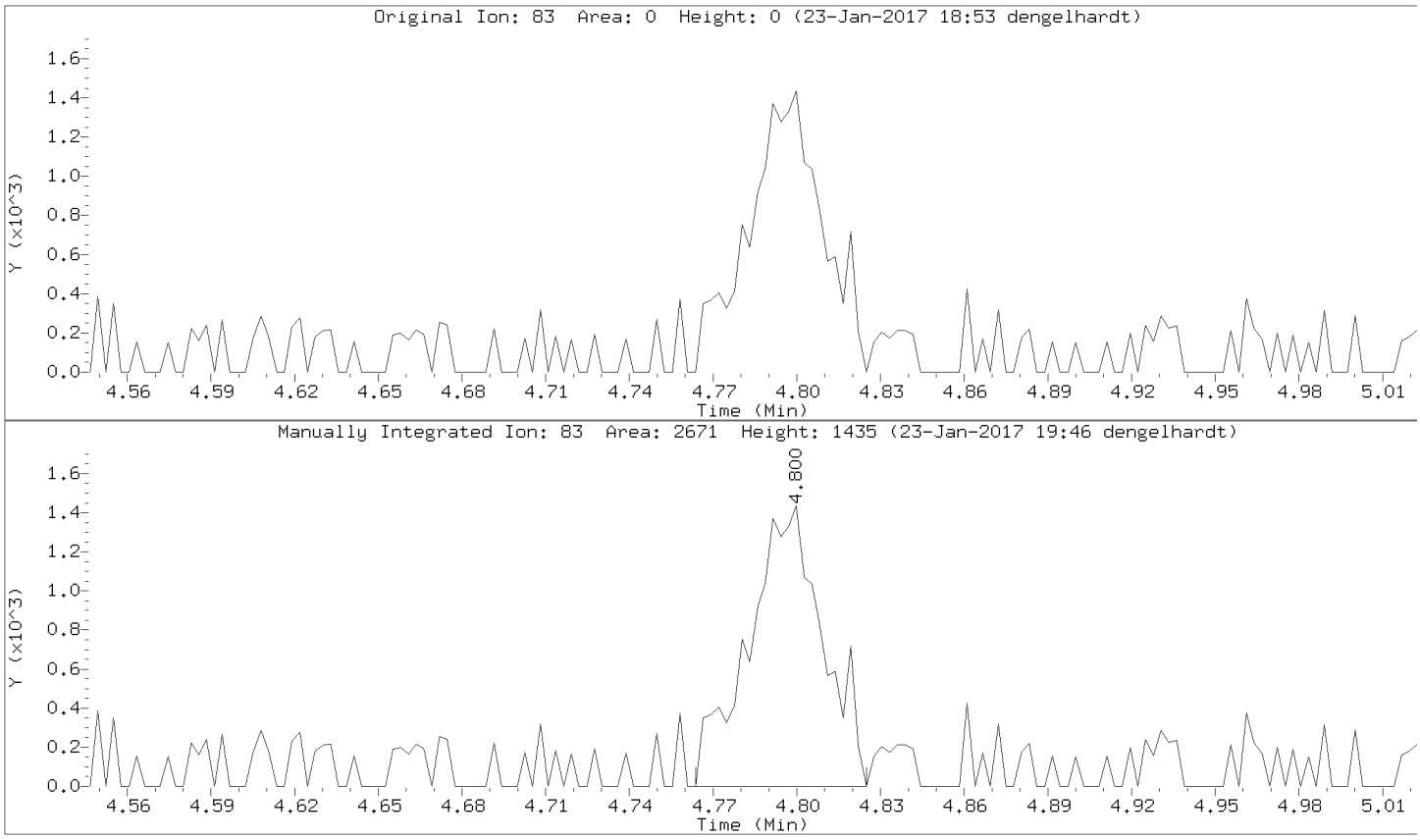
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0



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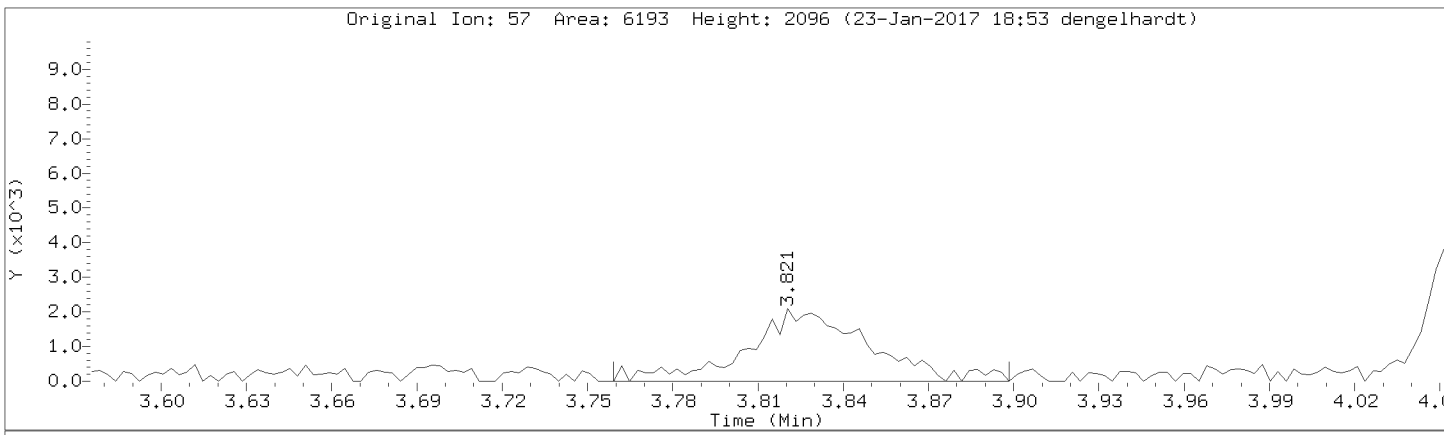
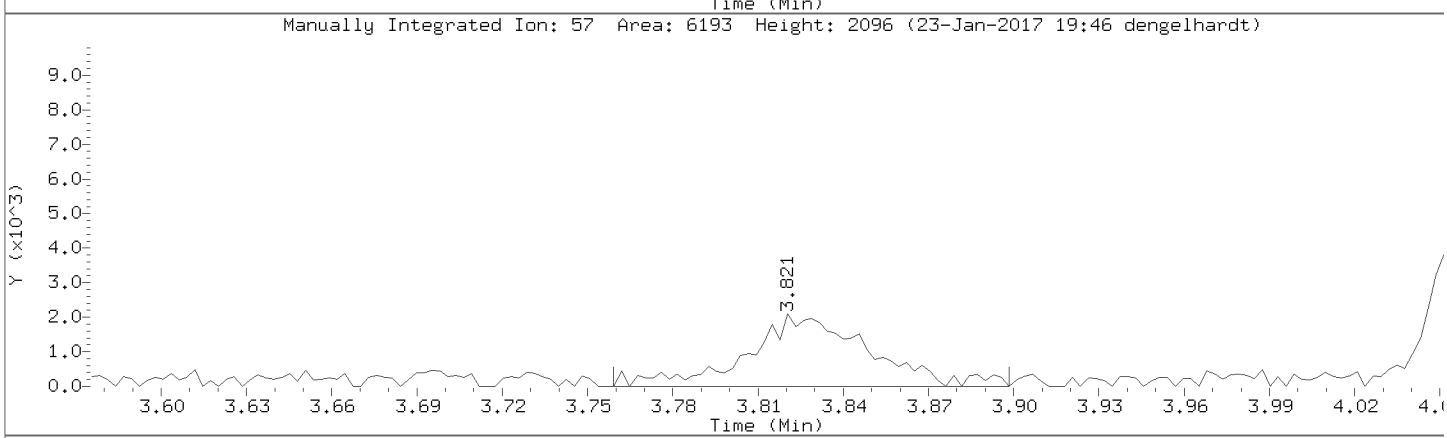
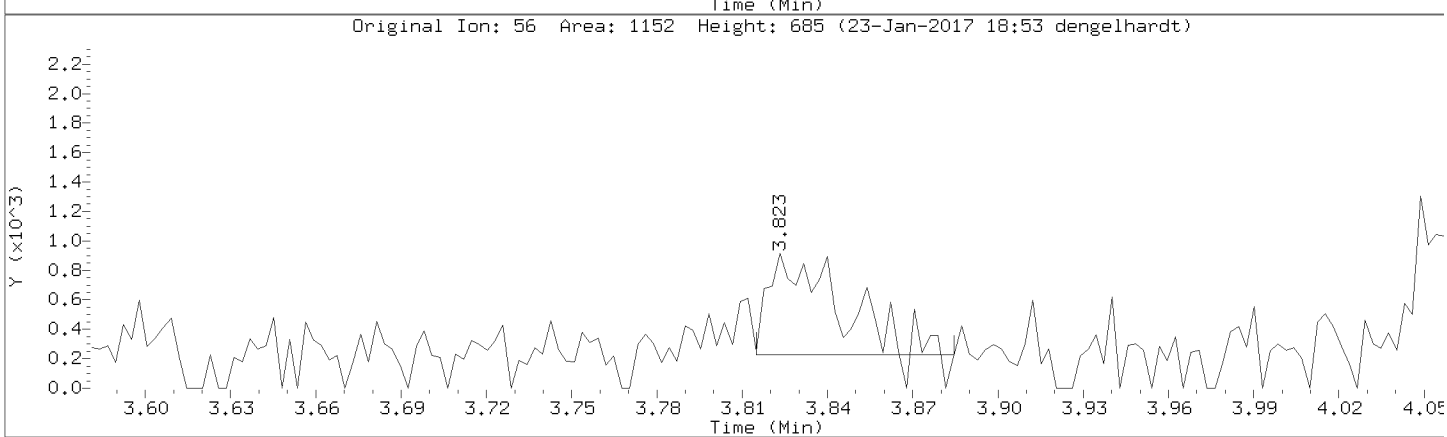
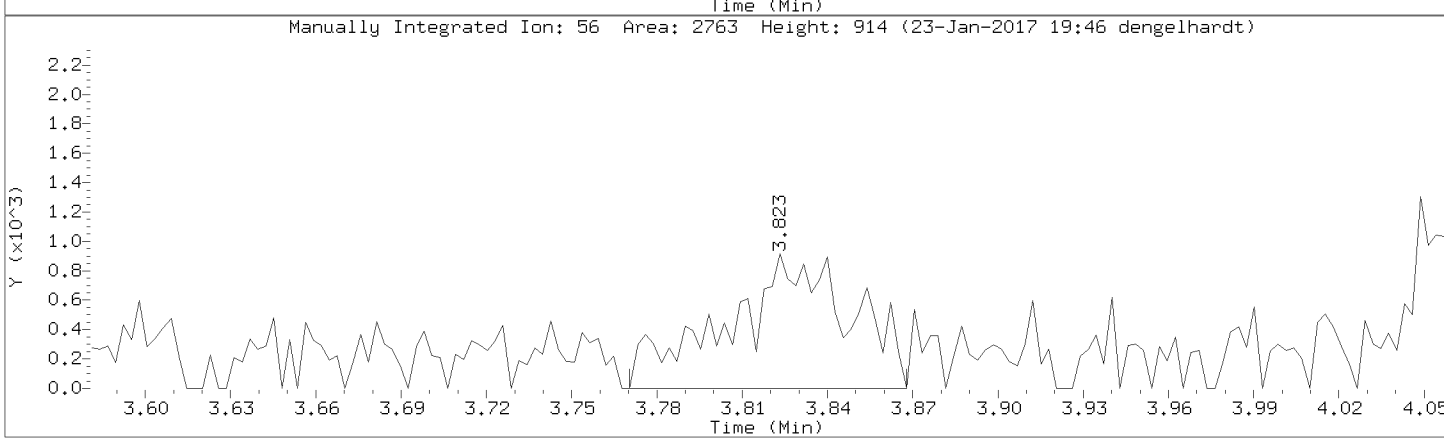
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,2,4-Trimethylpentane Review Code: LT
CAS Number: 540-84-1









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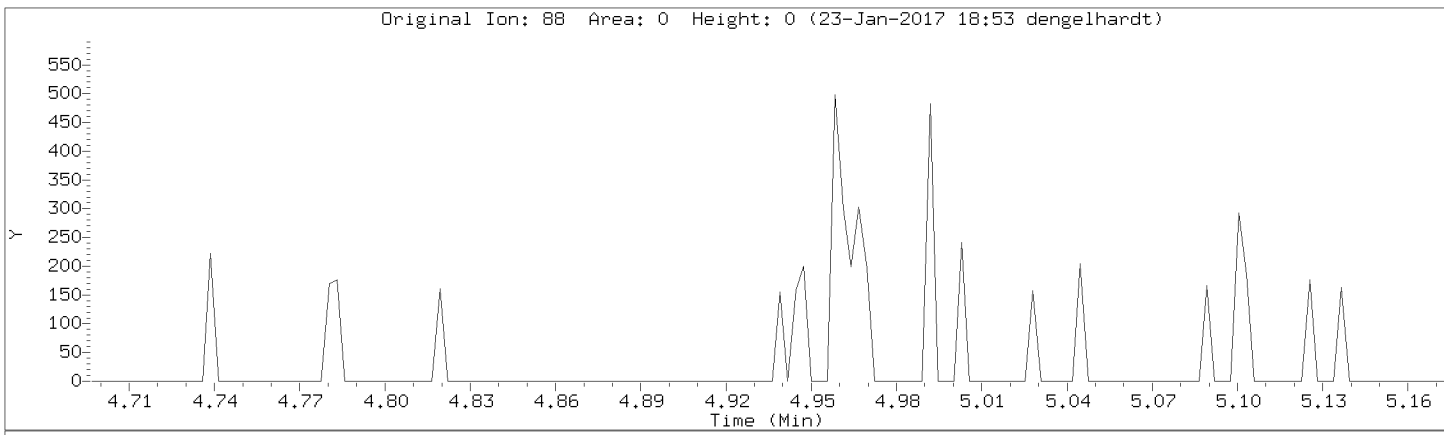
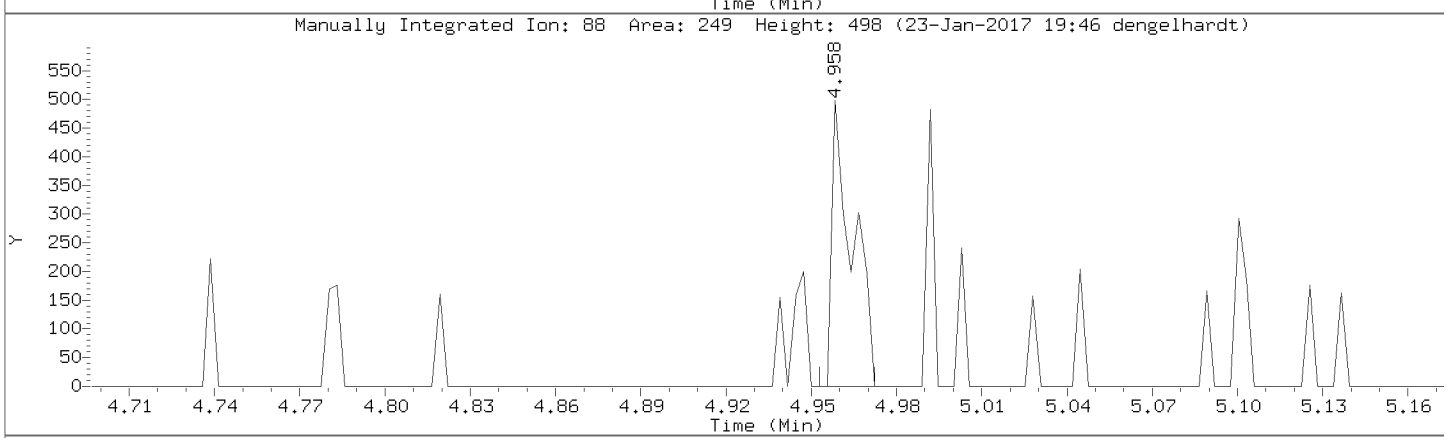
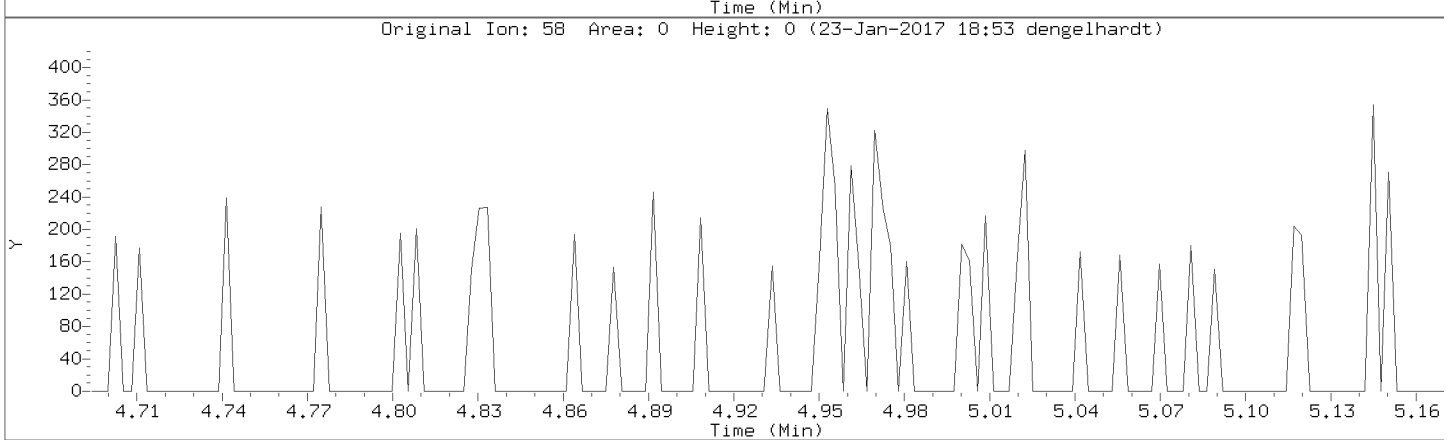
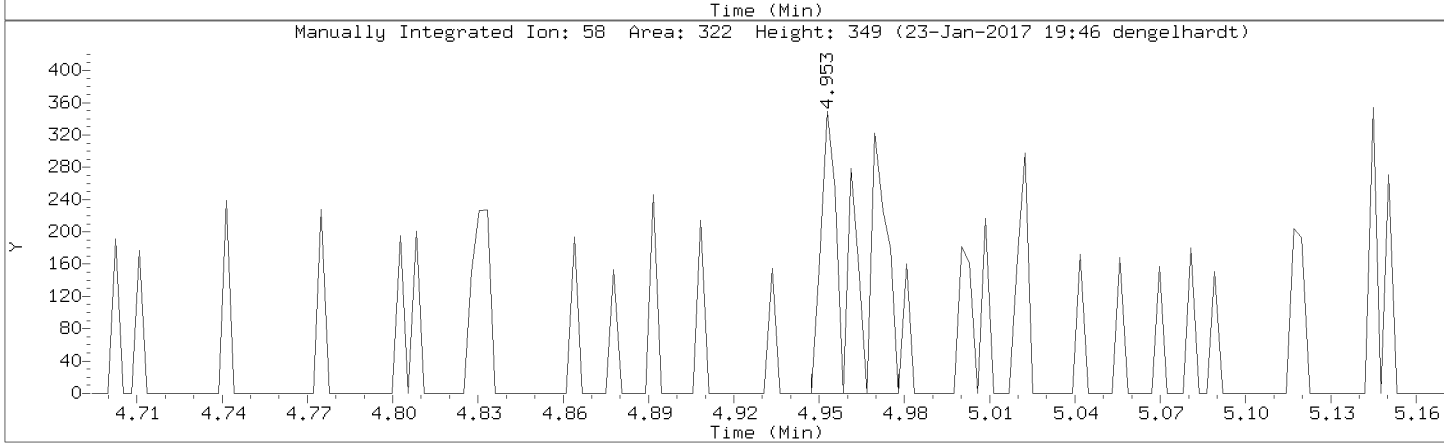
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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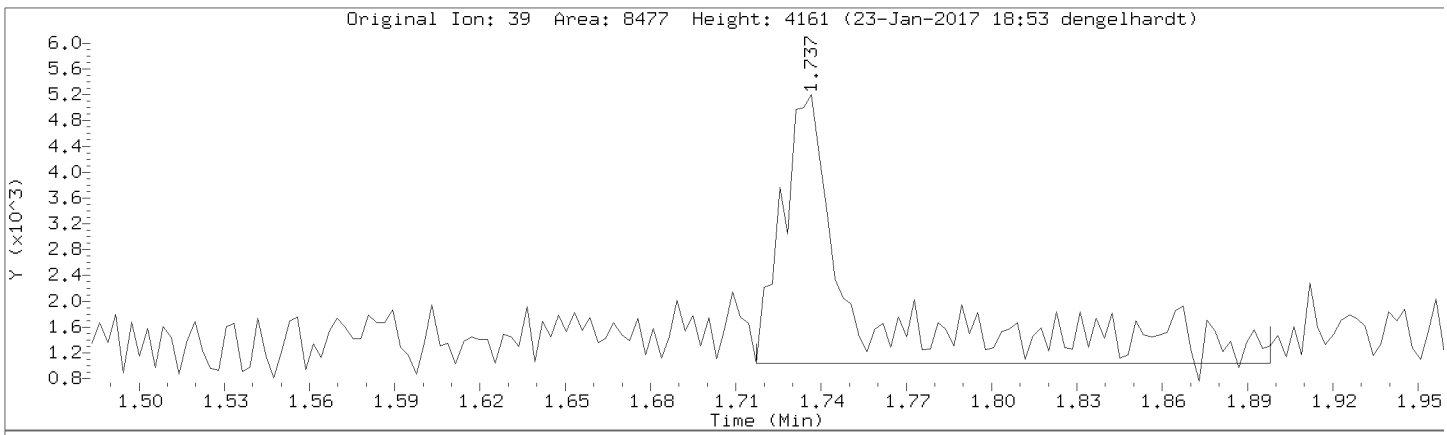
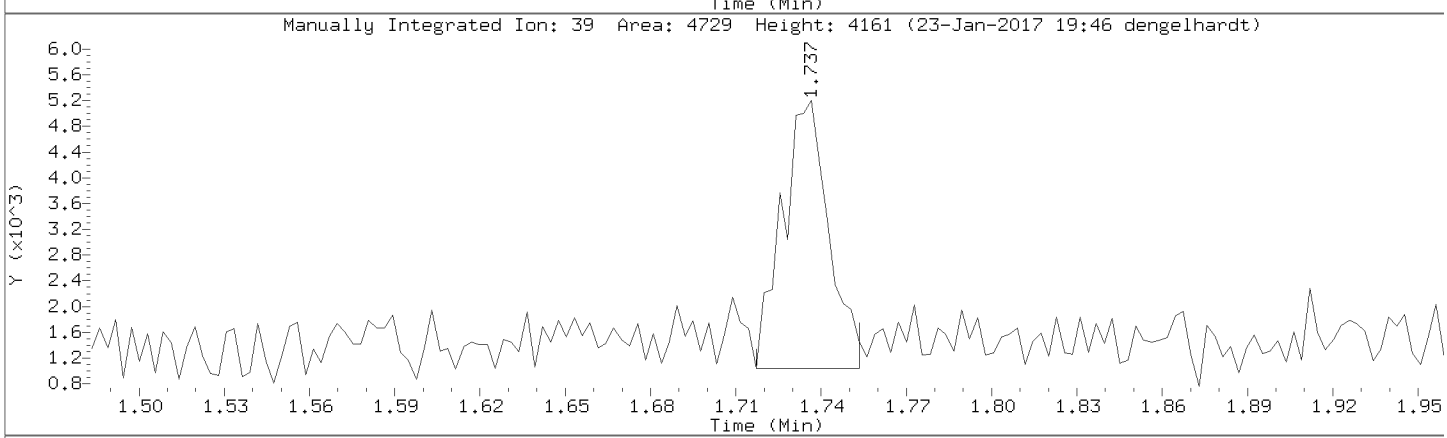
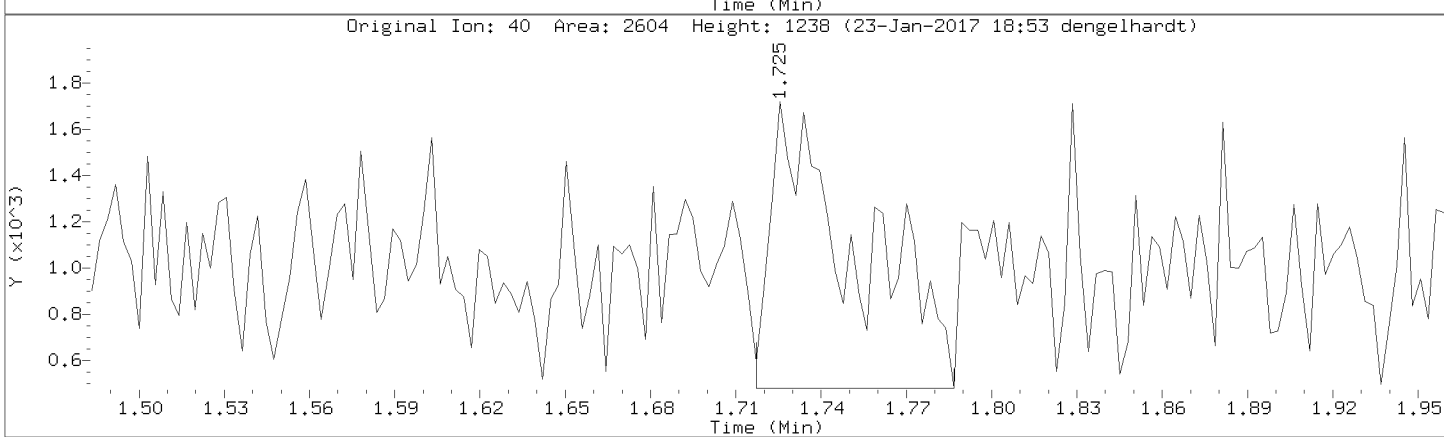
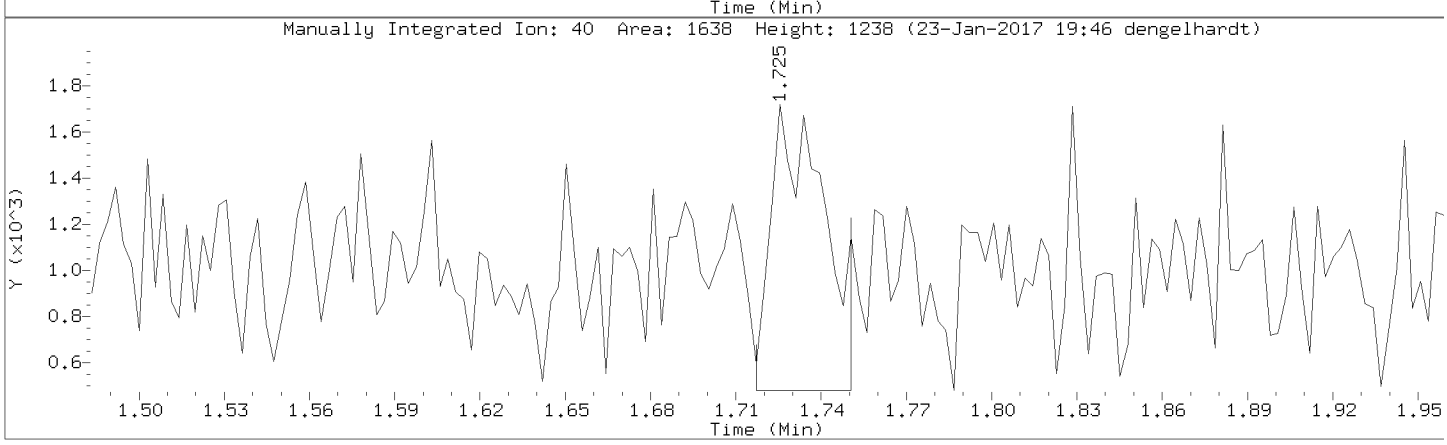
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8









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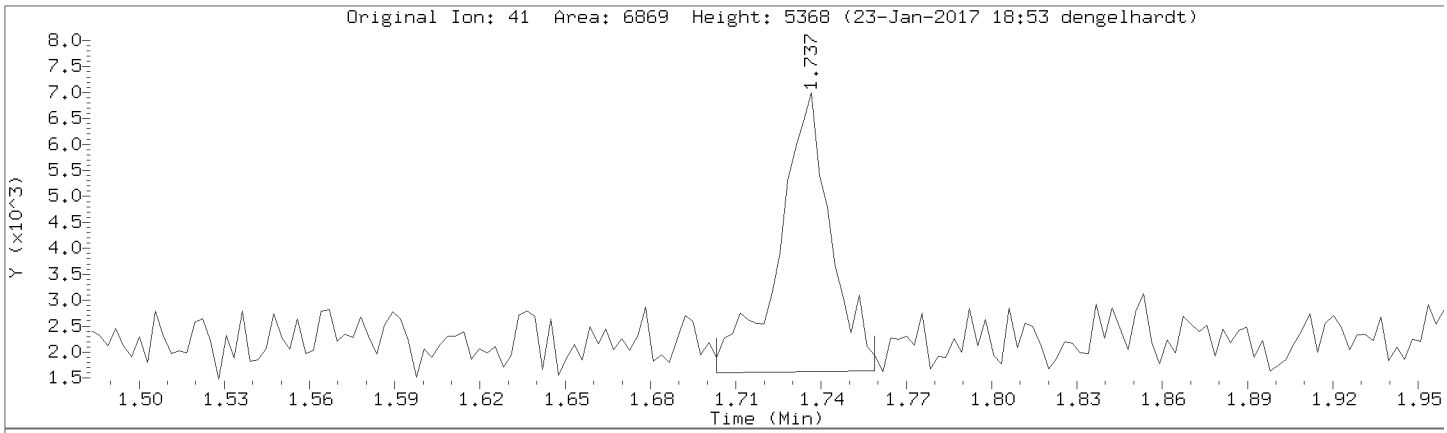
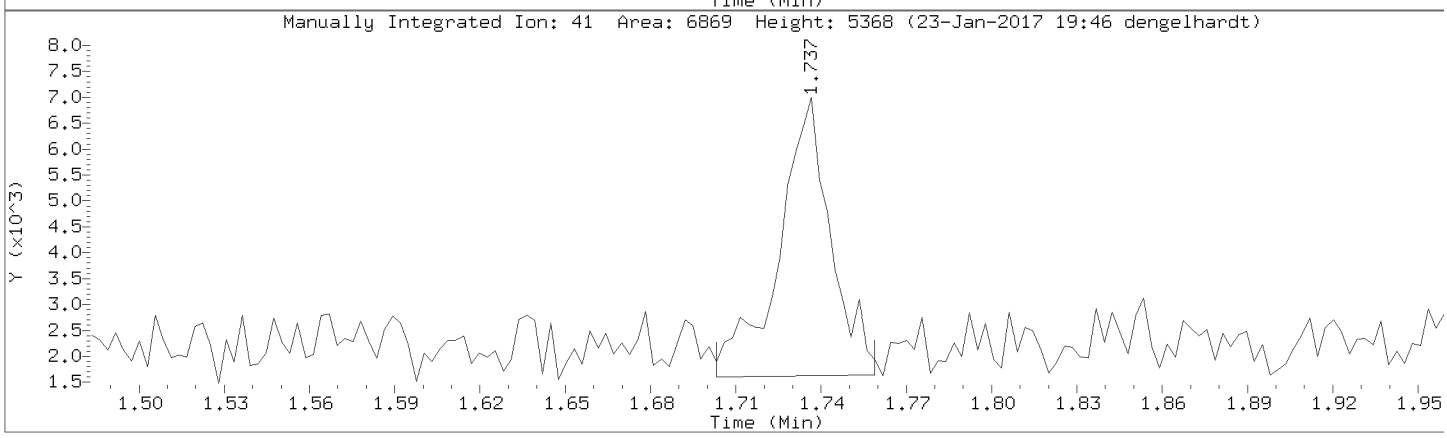
Lab Sample ID: 8260-CAL1,140426:0





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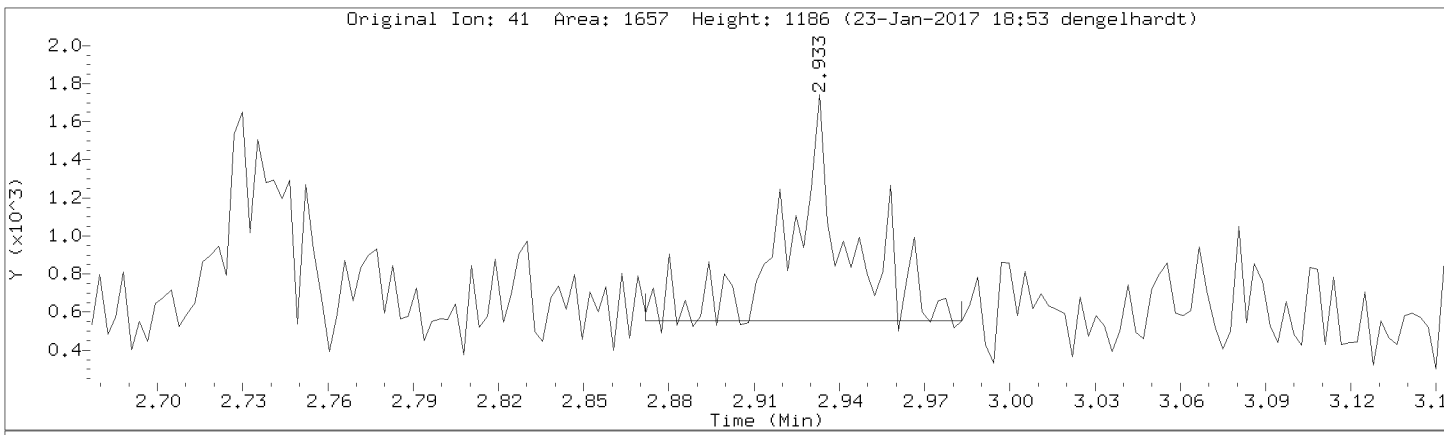
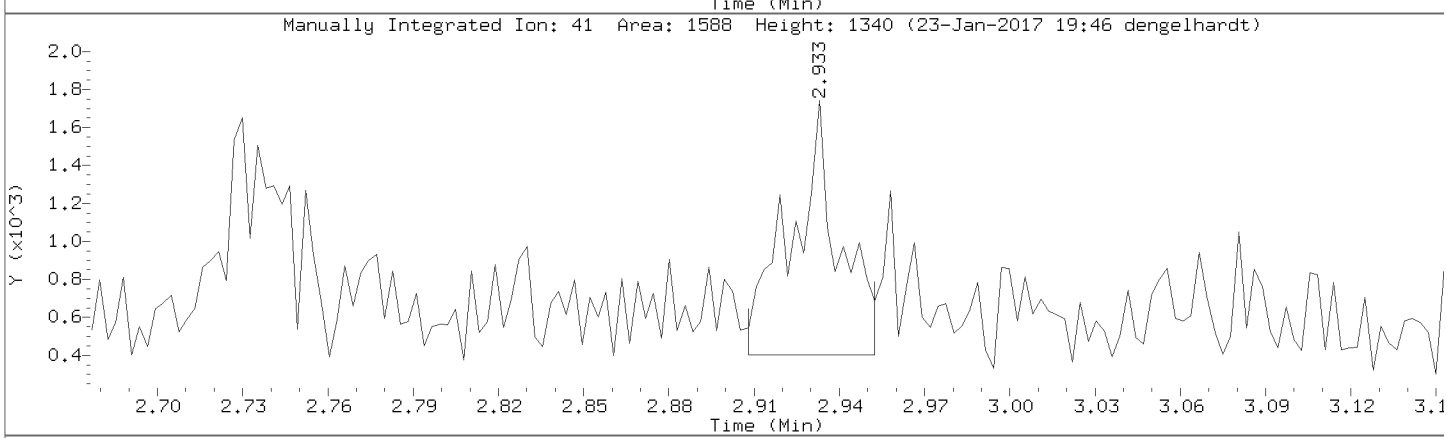
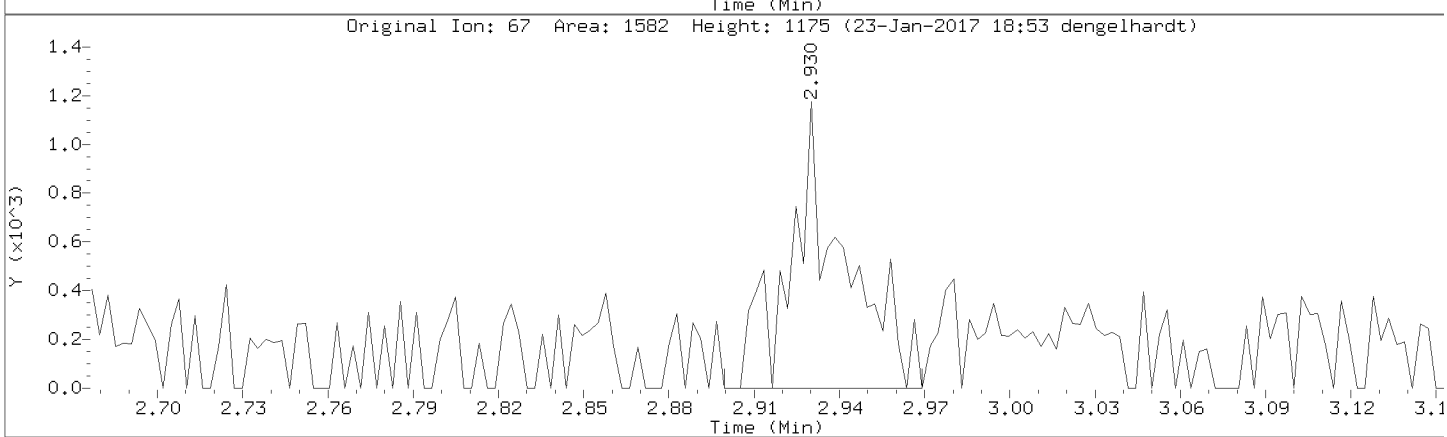
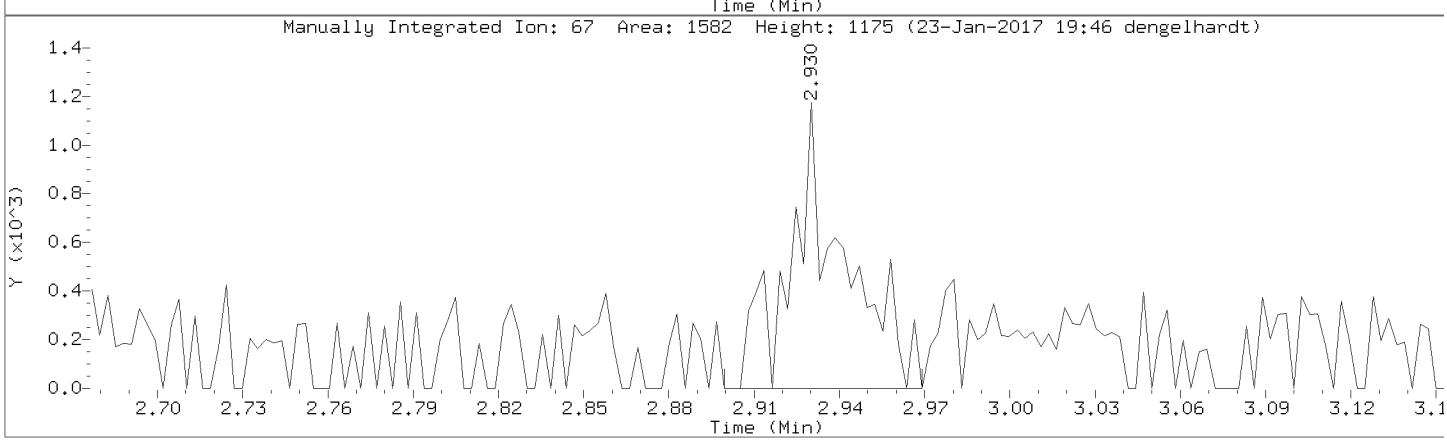
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7









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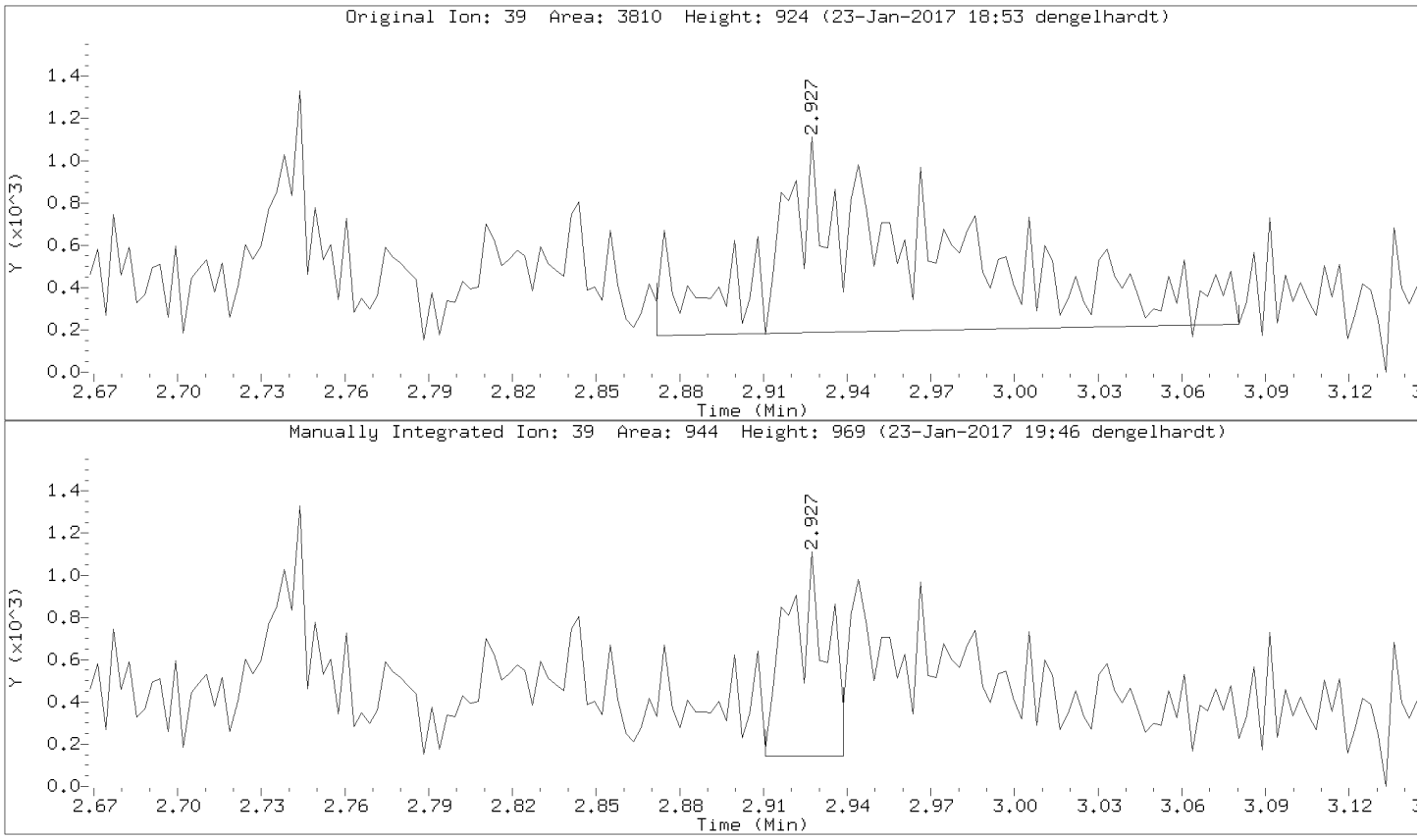
Lab Sample ID: 8260-CAL1,140426:0



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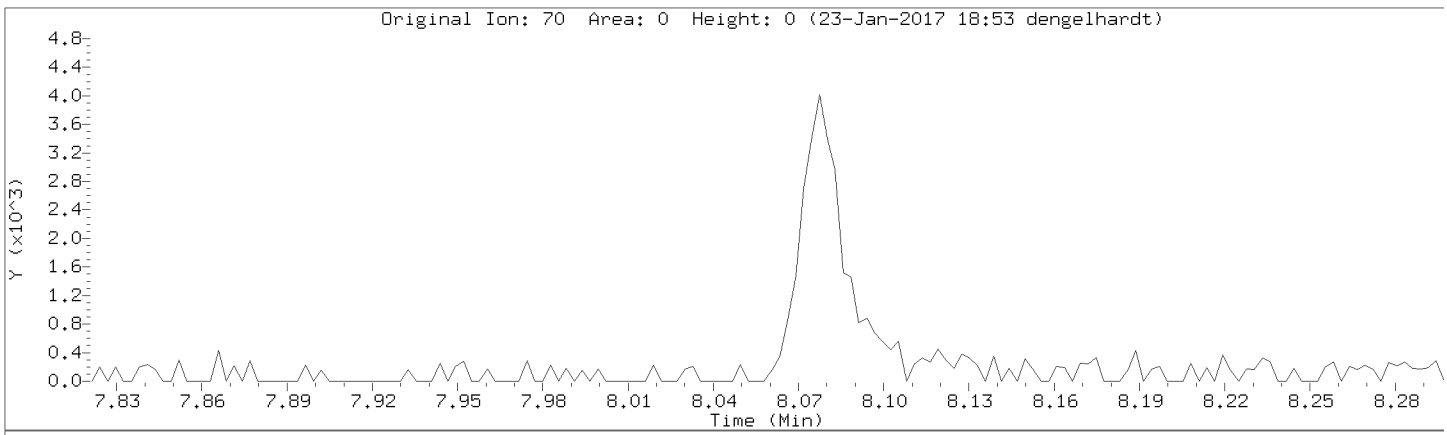
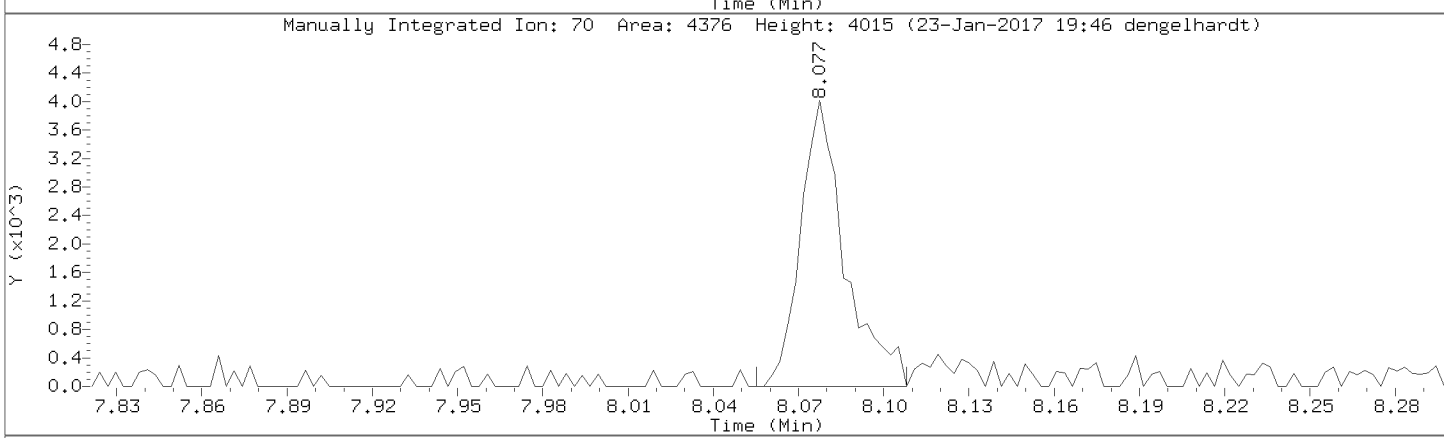
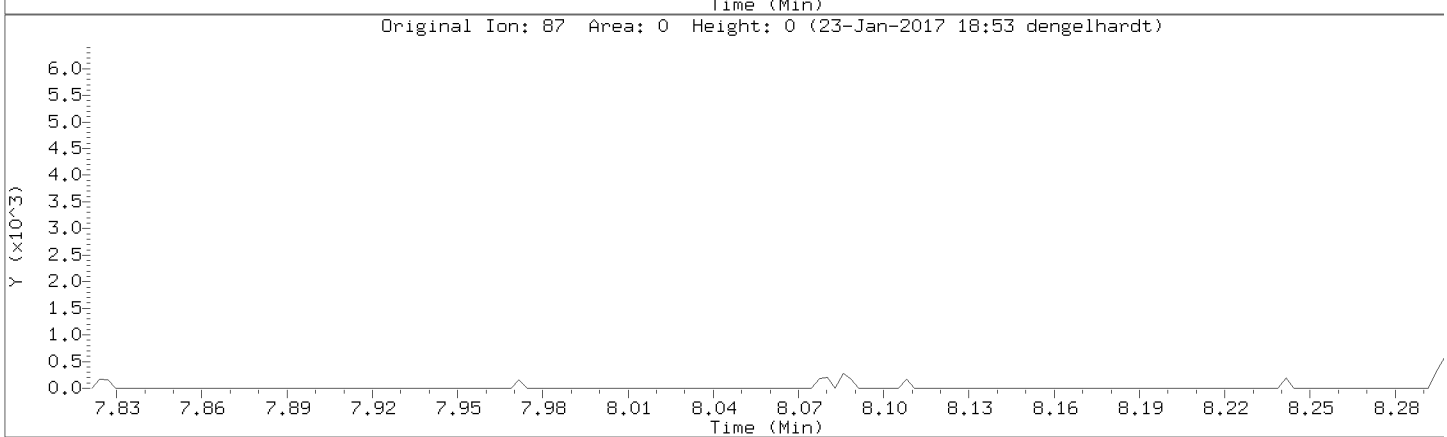
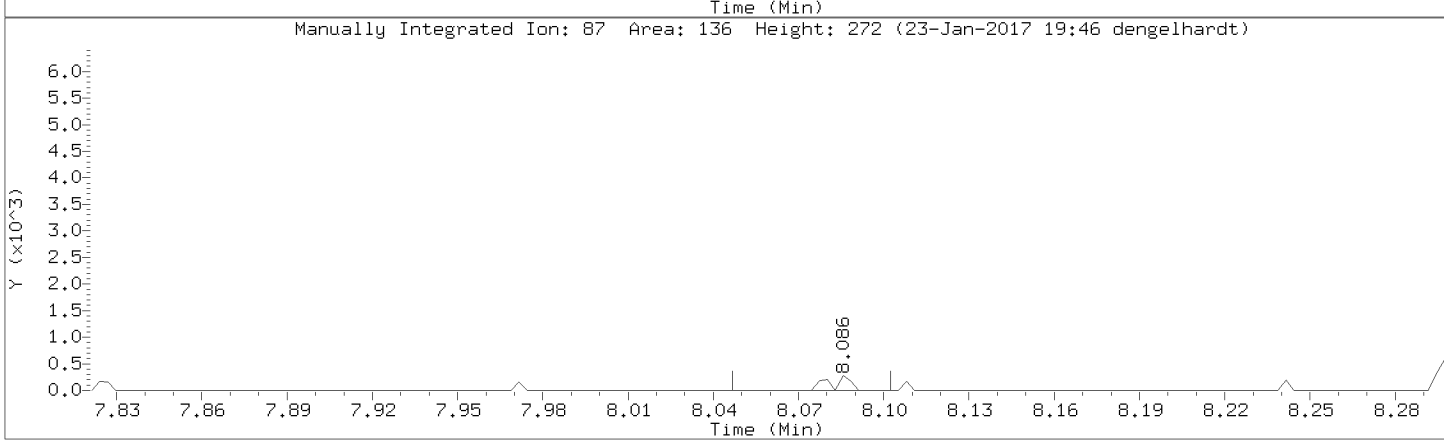
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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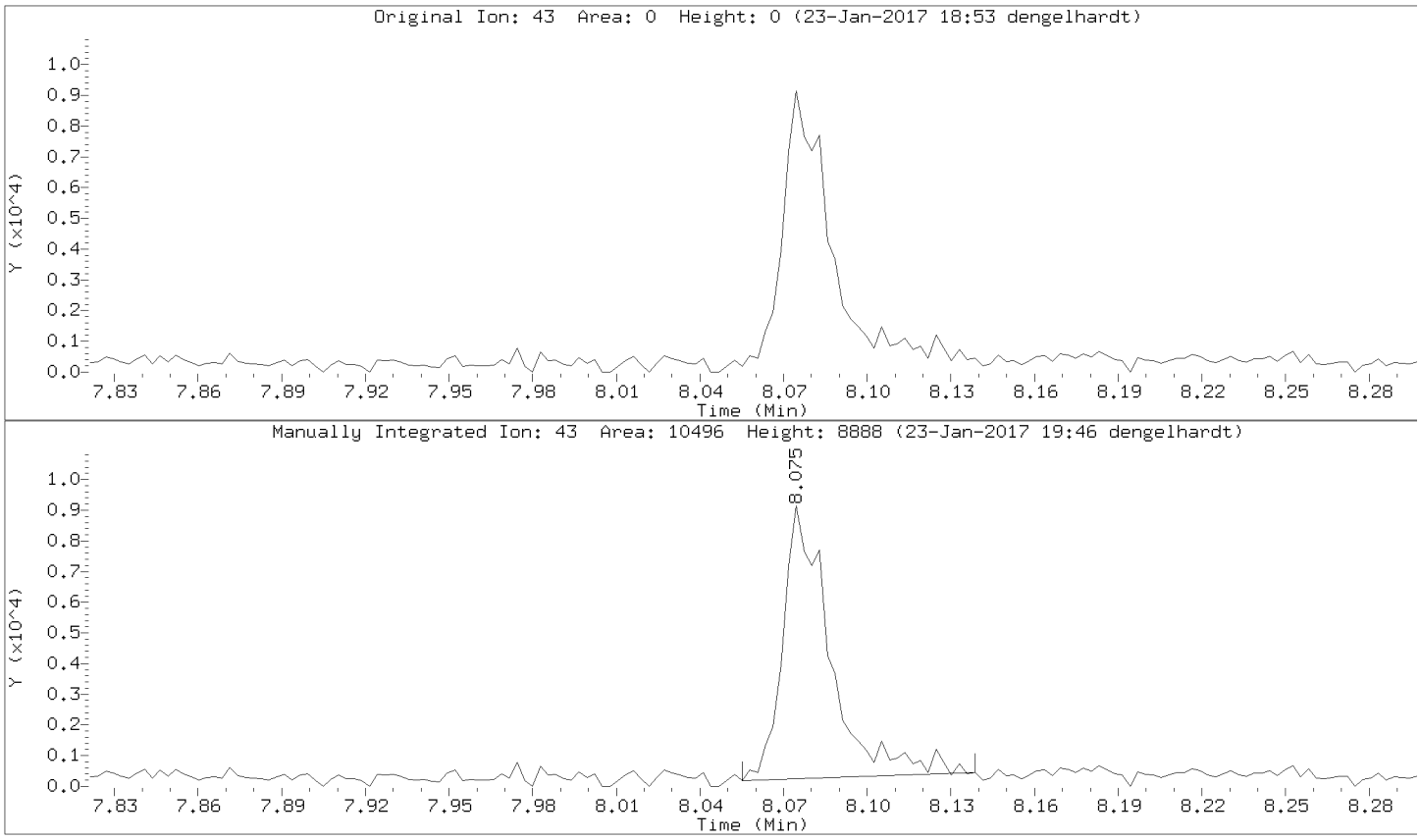

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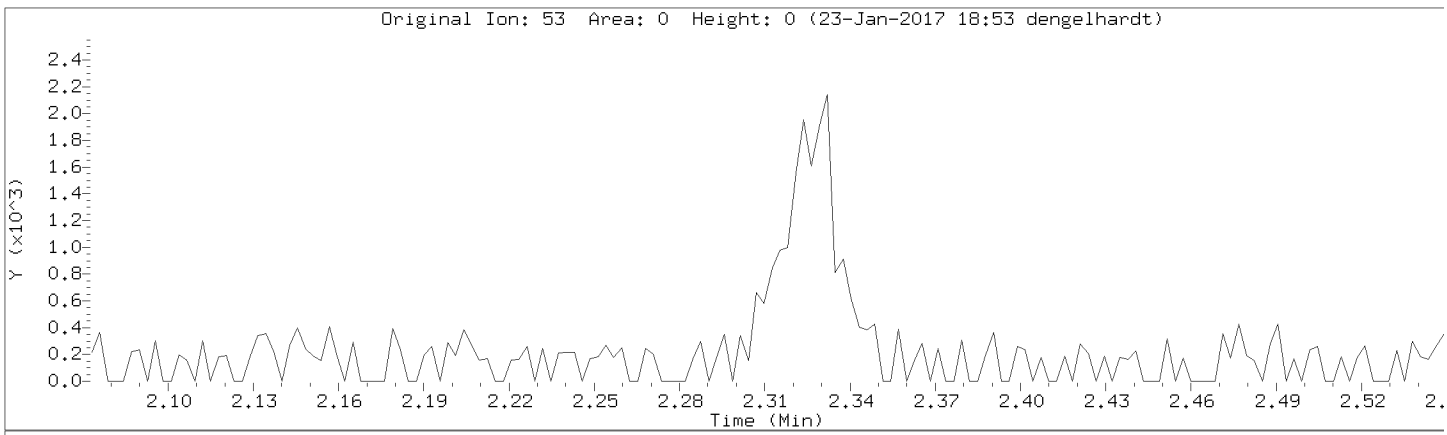
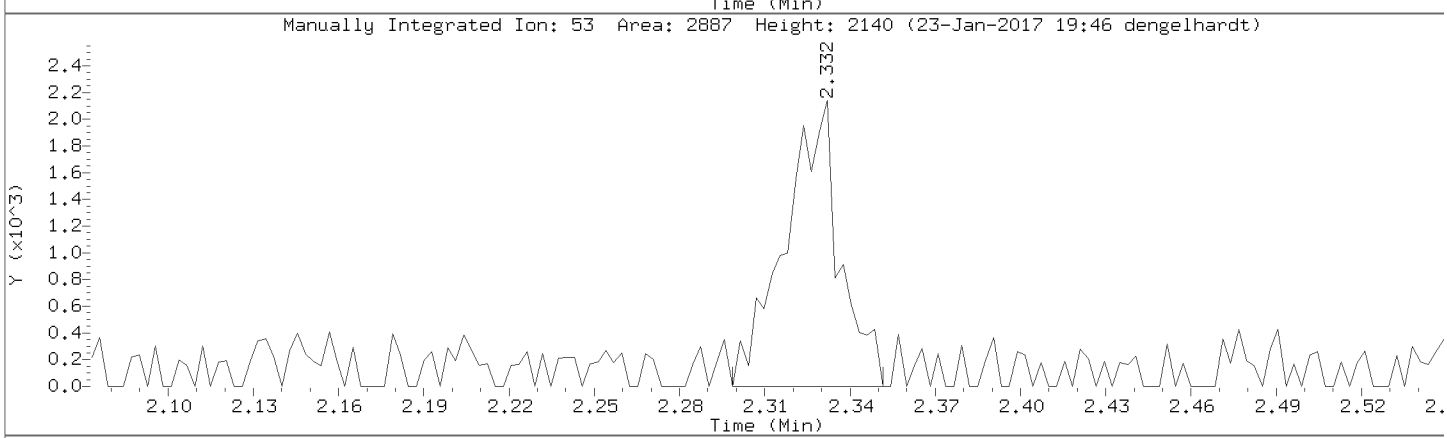
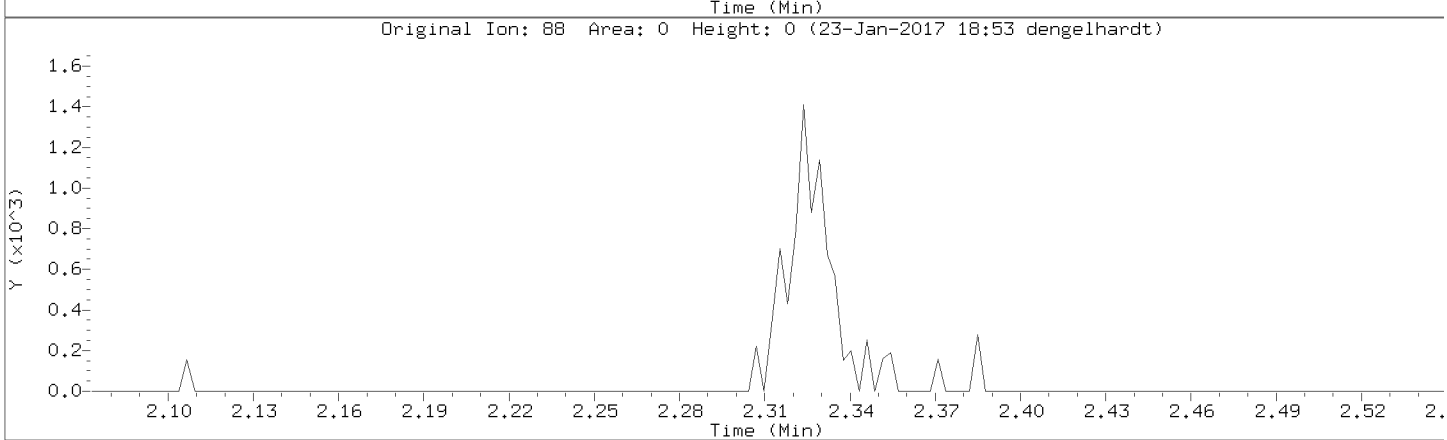
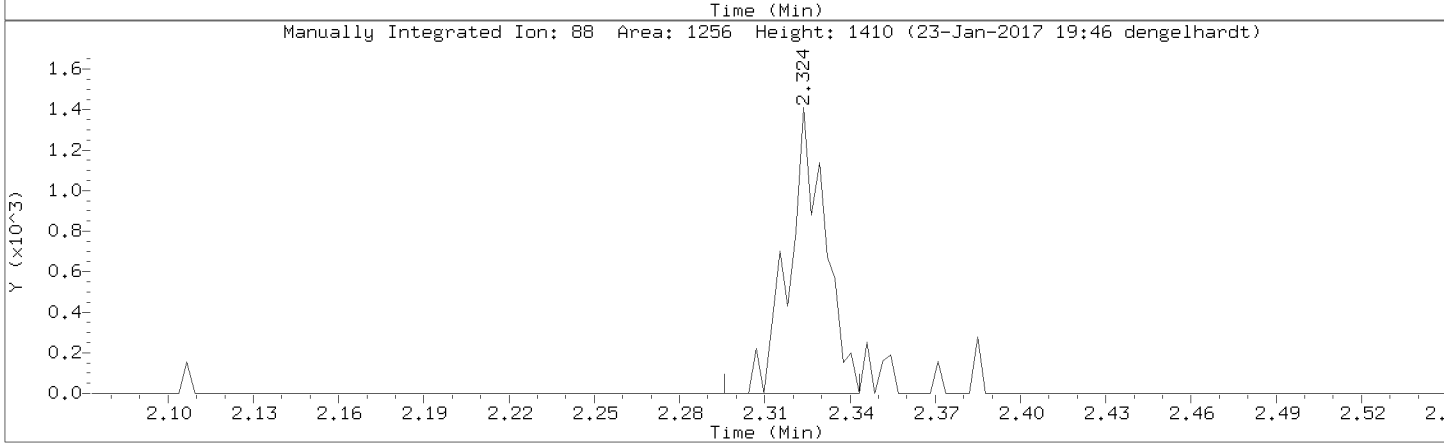
Injection Date: 22-JAN-2017 21:54
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8









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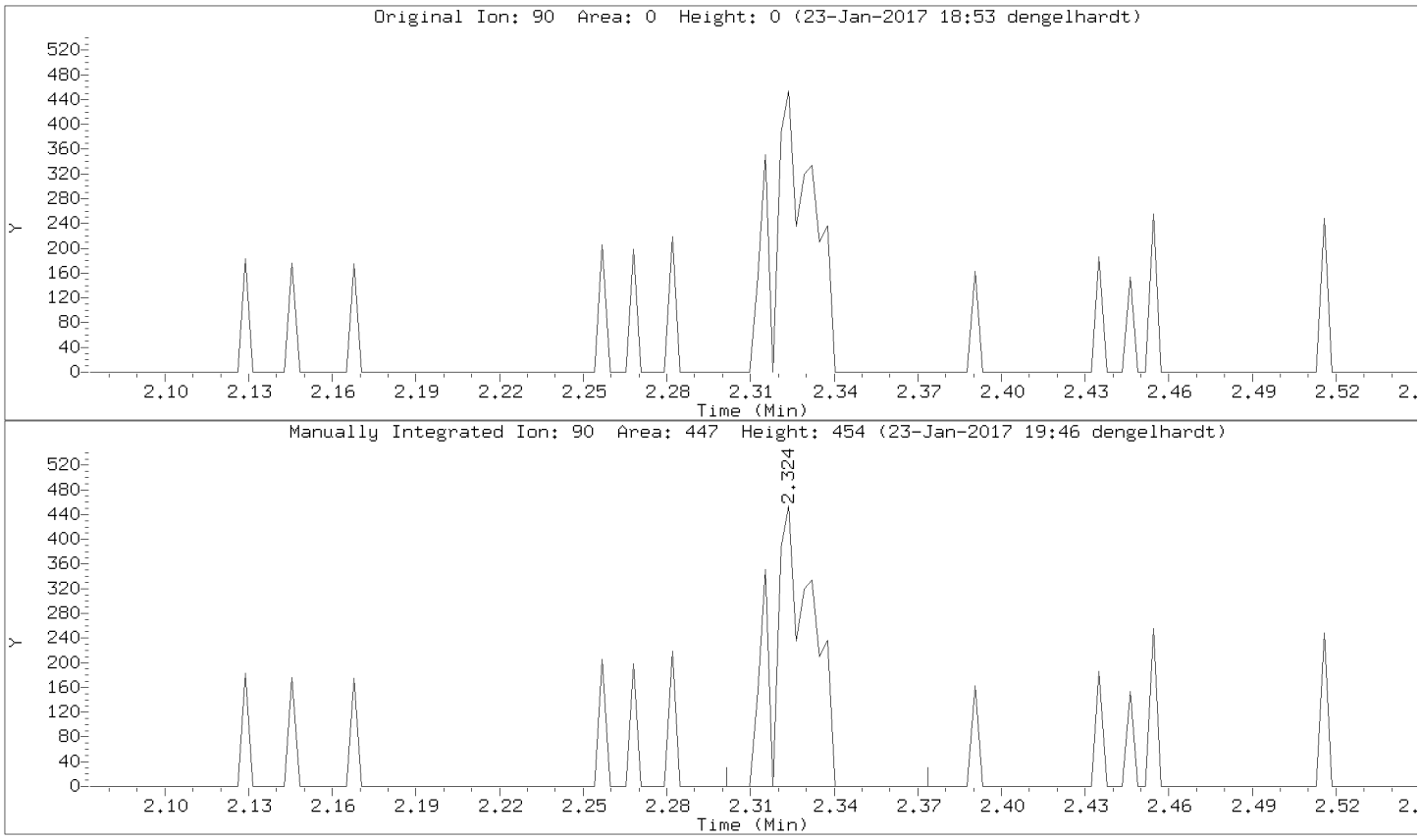

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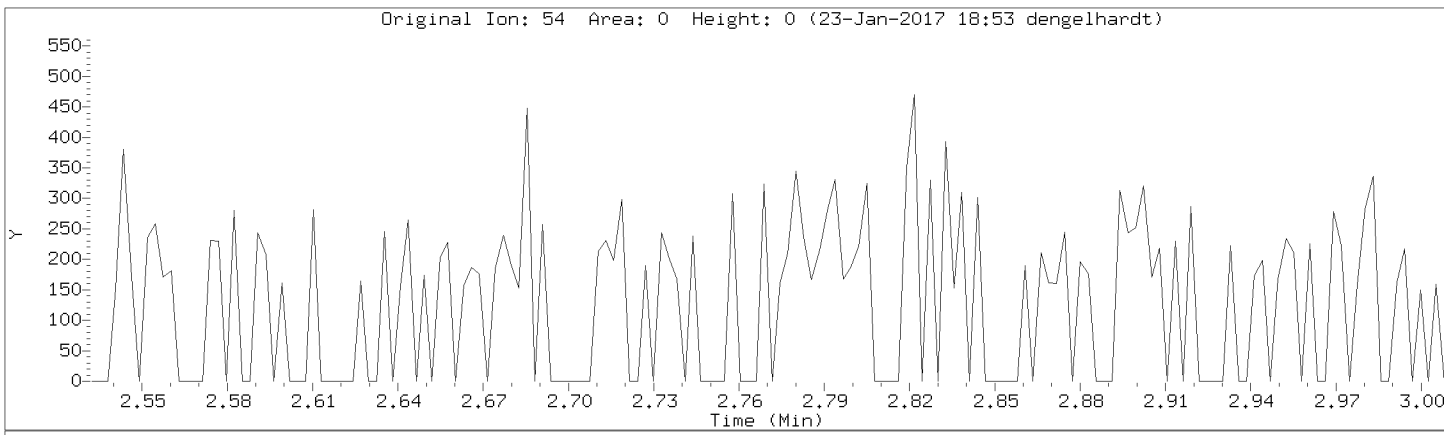
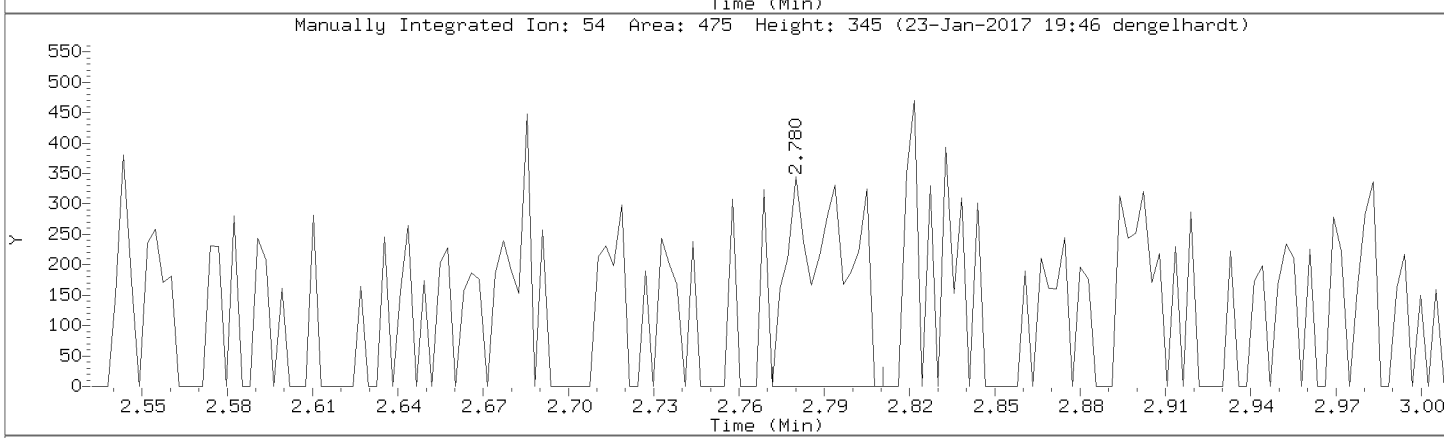
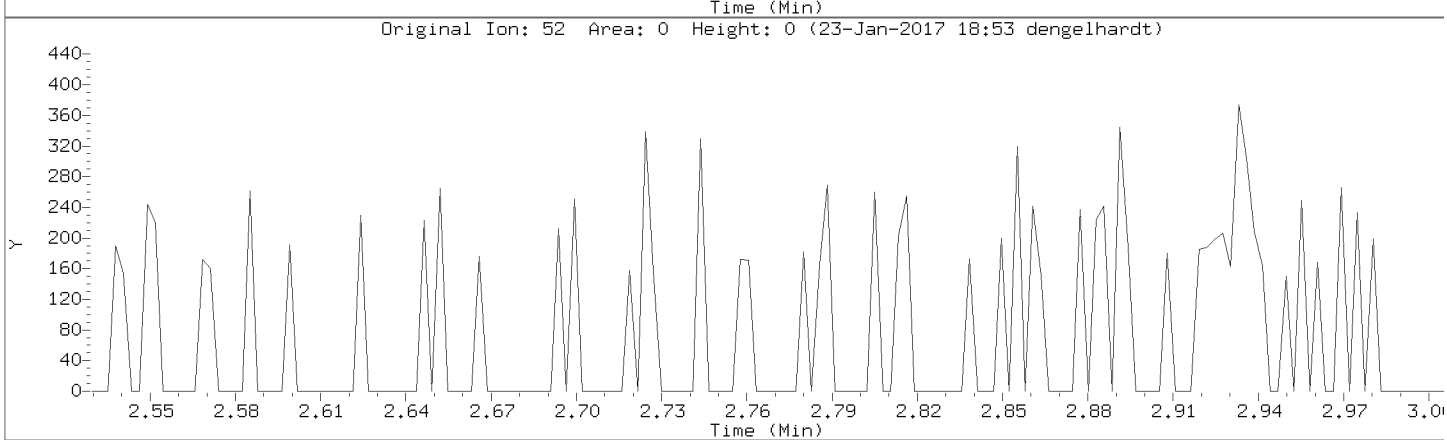
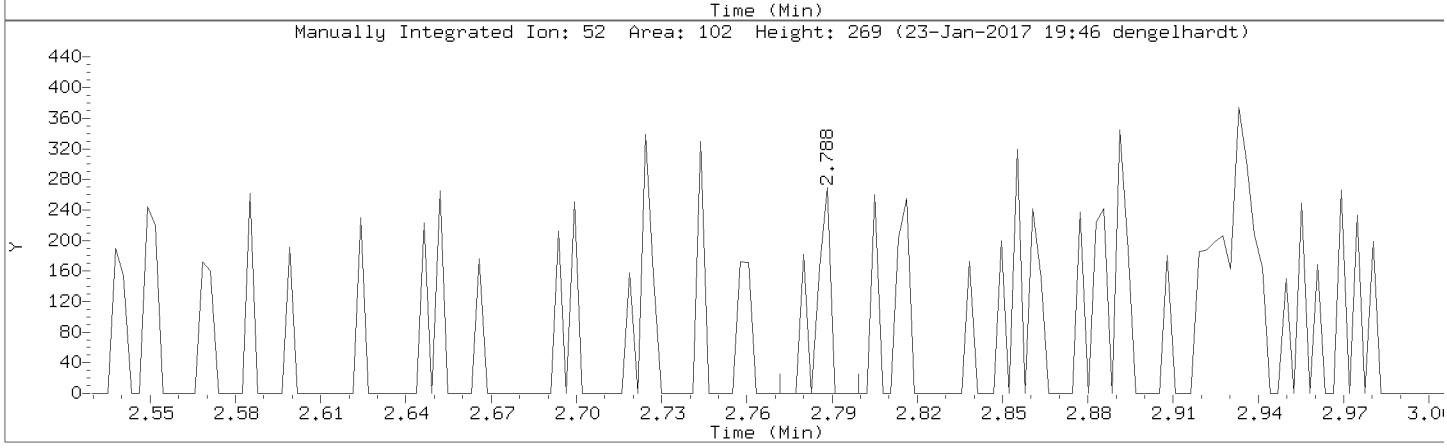
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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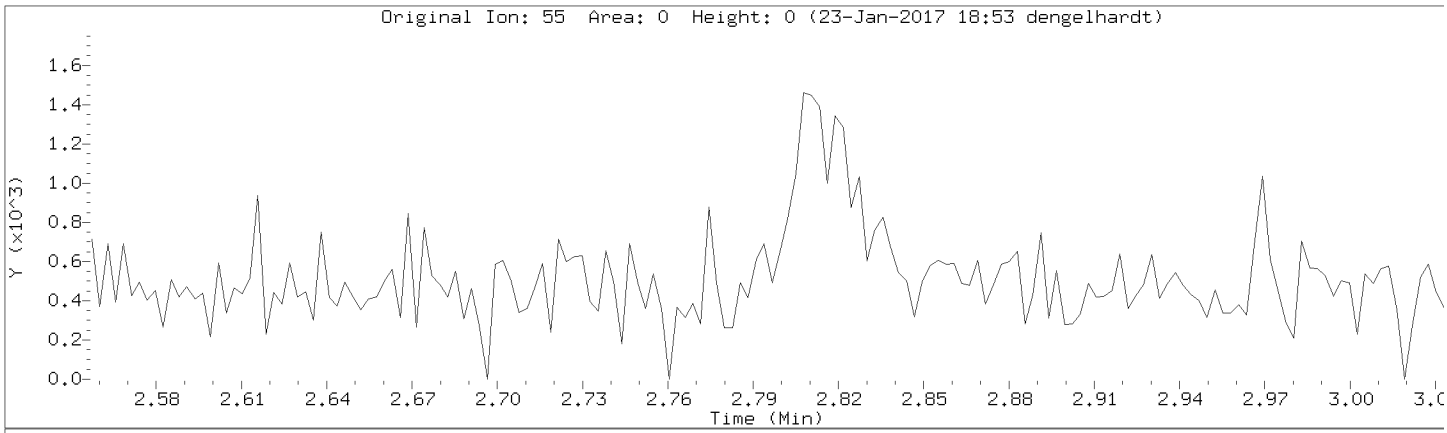
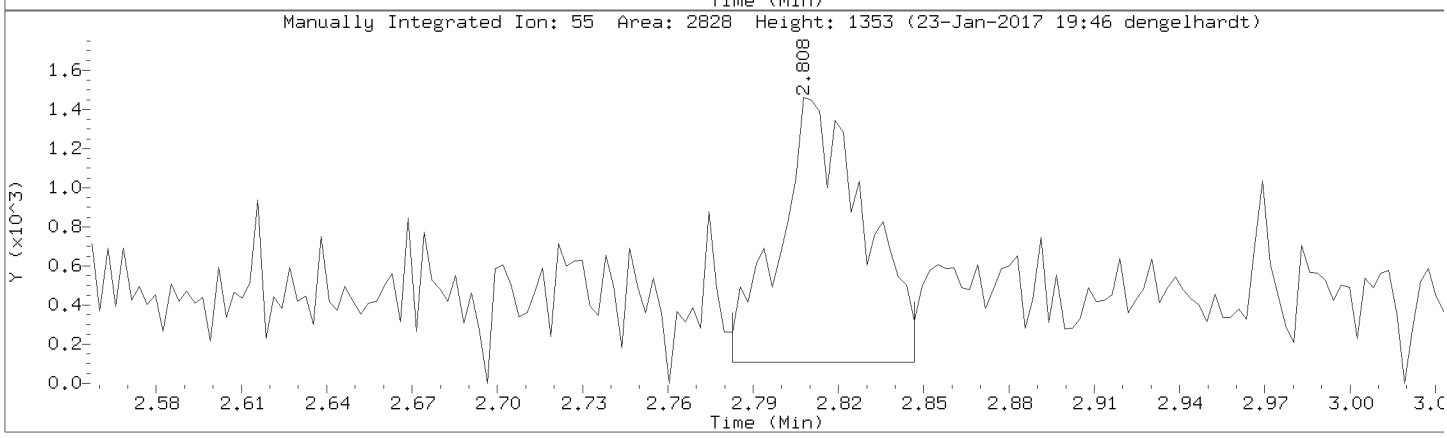
Lab Sample ID: 8260-CAL1,140426:0





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Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal2,140427:0
Misc Info : 99071
Comment :
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Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.873	0.874	(0.215)	2358	1.00000	1.10(M)	NI
2 Chloromethane	50	0.954	0.952	(0.235)	2969	1.00000	1.01(M)	NI
3 Vinyl Chloride	62	1.001	0.999	(0.246)	3245	1.00000	1.23(M)	NI
4 Bromomethane	94	1.140	1.138	(0.281)	2946	1.00000	0.789(Q)	
5 Chloroethane	64	1.188	1.182	(0.292)	2630	1.00000	1.58(M)	LT
6 Trichlorofluoromethane	101	1.296	1.294	(0.319)	3989	1.00000	1.33	
7 Diethyl ether	74	1.416	1.416	(0.348)	2024	1.00000	0.766(QM)	GT
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	4779	1.00000	0.776(M)	GT
9 Acrolein	56	1.491	1.489	(0.367)	7983	20.0000	17.8	
10 1,1,2trichlorotrifluoroethane	101	1.541	1.539	(0.379)	3355	1.00000	0.866	
11 1,1-Dichloroethene	96	1.538	1.541	(0.379)	3575	1.00000	0.768(QM)	GT
12 Acetone	43	1.552	1.555	(0.382)	5665	5.00000	3.49(M)	WP
13 Iodomethane	142	1.630	1.628	(0.401)	4900	2.00000	1.86	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	8019	1.00000	0.804(M)	LT
15 Methyl Acetate	43	1.722	1.719	(0.424)	4030	1.00000	0.629(M)	LT
16 Acetonitrile	39	1.733	1.733	(0.426)	7849	1.00000	0.852(M)	LT
17 allyl chloride	41	1.733	1.733	(0.426)	10243	2.00000	1.53(M)	GT
18 Methylene Chloride	84	1.805	1.806	(0.444)	4103	1.00000	0.747	
19 tert-Butyl Alcohol	59	1.858	1.853	(0.457)	1679	2.00000	1.93(Q)	
20 Acrylonitrile	53	1.942	1.942	(0.478)	7418	4.00000	3.57	
21 Methyl-tert-butyl ether	73	1.967	1.964	(0.484)	9550	1.00000	0.826	
22 1,2-Dichloroethene (trans)	96	1.972	1.973	(0.485)	3287	1.00000	0.700	
23 n-Hexane	57	2.153	2.148	(0.530)	4362	1.00000	0.708(M)	GT

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.262	2.262	(0.556)	24876	4.00000	5.71	
	25 1,1-Dichloroethane	63	2.273	2.270	(0.559)	5256	1.00000	0.901	
	26 Chloroprene	53	2.323	2.323	(0.572)	4521	1.00000	0.804(M)	NI
	27 Ethyl acetate	88	2.760	2.763	(0.679)	1360	8.00000	5.60(Q)	
	28 2-Butanone	72	2.724	2.724	(0.670)	2260	5.00000	4.09(Q)	
	29 1,2-Dichloroethene (cis)	96	2.737	2.735	(0.674)	3423	1.00000	0.648	
	30 2,2-Dichloropropane	77	2.746	2.738	(0.676)	5046	1.00000	0.754	
	31 Propionitrile	54	2.779	2.782	(0.684)	188	1.00000	0.203(QM)	NI
	32 Methacrylonitrile	41	2.929	2.927	(0.721)	3036	1.00000	0.982(QM)	GT
	33 Bromochloromethane	49	2.957	2.963	(0.728)	2609	1.00000	0.853	
	34 Tetrahydrofuran	42	2.993	2.983	(0.736)	1511	1.00000	0.623(M)	NI
	35 Chloroform	83	3.066	3.069	(0.754)	4826	1.00000	0.846	
$	36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	106886	50.0000	50.1	
	37 1,1,1-Trichloroethane	97	3.238	3.236	(0.797)	4925	1.00000	0.839	
	38 cyclohexane	56	3.308	3.314	(0.814)	6240	1.00000	0.723	
	150 n-butyl chloride	56	3.380	3.378	(0.832)	6958	1.00000	0.746(QM)	LT
	39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	4387	1.00000	0.872	
	40 1,1-Dichloropropene	75	3.422	3.419	(0.842)	4197	1.00000	0.961	
	41 Benzene	78	3.658	3.659	(0.900)	12112	1.00000	0.805(M)	LT
	42 1,2-Dichloroethane	62	3.750	3.748	(0.923)	3934	1.00000	0.782(M)	NI
	43 2,2,4-Trimethylpentane	57	3.823	3.826	(0.940)	8422	1.00000	0.698	
	44 Isobutyl alcohol	43	3.778	3.770	(0.929)	25849	1.00000	0.870	
*	45 Fluorobenzene	96	4.065	4.068	(1.000)	421096	50.0000		
	46 isopropyl acetate	61	3.786	3.773	(0.932)	5504	4.00000	3.15(Q)	
	47 Trichloroethene	95	4.524	4.527	(1.113)	3124	1.00000	0.697	
	48 Methylcyclohexane	55	4.791	4.794	(1.179)	3231	1.00000	0.566(QM)	GT
	49 1,2-Dichloropropane	63	4.844	4.847	(1.192)	3065	1.00000	0.906(M)	NI
	50 1,4-Dioxane	88	4.958	4.947	(1.220)	655	20.0000	27.0(QM)	NI
	51 Dibromomethane	93	4.947	4.938	(1.217)	1931	1.00000	0.895(Q)	
	52 Methyl methacrylate	69	4.977	4.961	(1.224)	2384	1.00000	0.740(M)	NI
	53 Bromodichloromethane	83	5.177	5.172	(1.274)	4323	1.00000	1.01(M)	NI
	54 2-Chloroethyl vinyl ether	63	5.534	5.531	(0.751)	4406	2.00000	1.88	
	55 cis-1,3-Dichloropropene	75	5.681	5.673	(0.771)	4981	1.00000	0.957	
	56 4-Methyl-2-Pentanone	43	5.859	5.854	(0.795)	16166	5.00000	3.97	
$	57 Toluene-d8	98	5.948	5.948	(0.807)	402536	50.0000	50.5	
	58 Toluene	91	6.018	6.024	(0.817)	13092	1.00000	0.723(M)	
	59 trans-1,3-Dichloropropene	75	6.318	6.316	(0.858)	4364	1.00000	0.889	
	60 Ethyl Methacrylate	69	6.413	6.405	(0.870)	4400	1.00000	0.808(M)	NI
	61 1,1,2-Trichloroethane	83	6.516	6.513	(0.884)	2503	1.00000	1.14(M)	GT
	62 Tetrachloroethene	166	6.563	6.561	(0.891)	3832	1.00000	0.767	
	63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	4572	1.00000	0.892	
	64 2-Hexanone	43	6.755	6.739	(0.917)	10260	5.00000	4.53(M)	WP
	65 Dibromochloromethane	129	6.869	6.864	(0.932)	3091	1.00000	0.881	
	66 1,2-Dibromoethane	107	6.958	6.956	(0.944)	2821	1.00000	0.962	
*	67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	311549	50.0000		
	68 Chlorobenzene	112	7.392	7.390	(1.003)	7373	1.00000	0.839(Q)	
	69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	2965	1.00000	0.955	
	70 Ethylbenzene	106	7.487	7.484	(1.016)	4292	1.00000	0.957(Q)	
	71 m&p-Xylene	106	7.604	7.598	(1.032)	9768	2.00000	1.58	
	72 o-Xylene	106	7.901	7.899	(1.073)	4663	1.00000	1.12	
	73 Styrene	104	7.926	7.918	(1.076)	7390	1.00000	0.874	
	74 Bromoform	173	8.057	8.055	(0.883)	2608	1.00000	0.877(M)	NI
	75 Isopropylbenzene	105	8.185	8.183	(1.111)	11290	1.00000	0.877	
$	76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	139698	50.0000	50.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.077	8.071	(1.096)	7710	4.00000	3.67(M)	NI
78 Bromobenzene	77	8.410	8.402	(1.142)	4700	1.00000	0.839	
79 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	3333	1.00000	0.840(M)	NI
80 trans-1,4-Dichloro-2-butene	53	8.449	8.447	(1.147)	1013	1.00000	0.859(M)	WP
81 1,2,3-Trichloropropane	110	8.461	8.458	(0.928)	1418	1.00000	0.975(QM)	GT
82 n-Propylbenzene	91	8.488	8.486	(0.931)	11192	1.00000	0.829	
83 2-Chlorotoluene	91	8.547	8.544	(0.937)	8516	1.00000	0.968	
84 1,3,5-Trimethylbenzene	105	8.622	8.619	(0.945)	9325	1.00000	0.897	
85 4-Chlorotoluene	126	8.639	8.633	(0.947)	2606	1.00000	0.770(Q)	
86 tert-Butylbenzene	119	8.839	8.834	(0.969)	10549	1.00000	1.04	
87 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	9448	1.00000	0.823	
88 sec-Butylbenzene	105	8.986	8.984	(0.985)	10830	1.00000	0.877	
89 1,3-Dichlorobenzene	146	9.070	9.065	(0.995)	5621	1.00000	0.898	
90 p-Isopropyltoluene	119	9.095	9.090	(0.997)	8806	1.00000	0.861	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	162419	50.0000		
92 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	6437	1.00000	0.795	
93 n-Butylbenzene	91	9.365	9.357	(1.027)	7746	1.00000	0.781	
94 1,2-Dichlorobenzene	146	9.373	9.365	(1.028)	5289	1.00000	0.789	
95 1,2-Dibromo-3-chloropropane	155	9.877	9.871	(1.083)	774	1.00000	1.10(QM)	NI
96 1,2,4-Trichlorobenzene	180	10.378	10.372	(1.138)	3407	1.00000	0.895(M)	NI
97 Hexachlorobutadiene	225	10.455	10.453	(1.146)	1359	1.00000	1.03(QM)	NI
98 Naphthalene	128	10.542	10.534	(1.156)	9866	1.00000	0.814	
99 1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	3363	1.00000	0.989	
100 2,methyl-naphthalene	142	11.234	11.226	(1.232)	5519	1.00000	0.811	
101 1-Methylnaphthalene	142	11.357	11.346	(1.245)	4707	1.00000	0.707	

QC Flag Legend

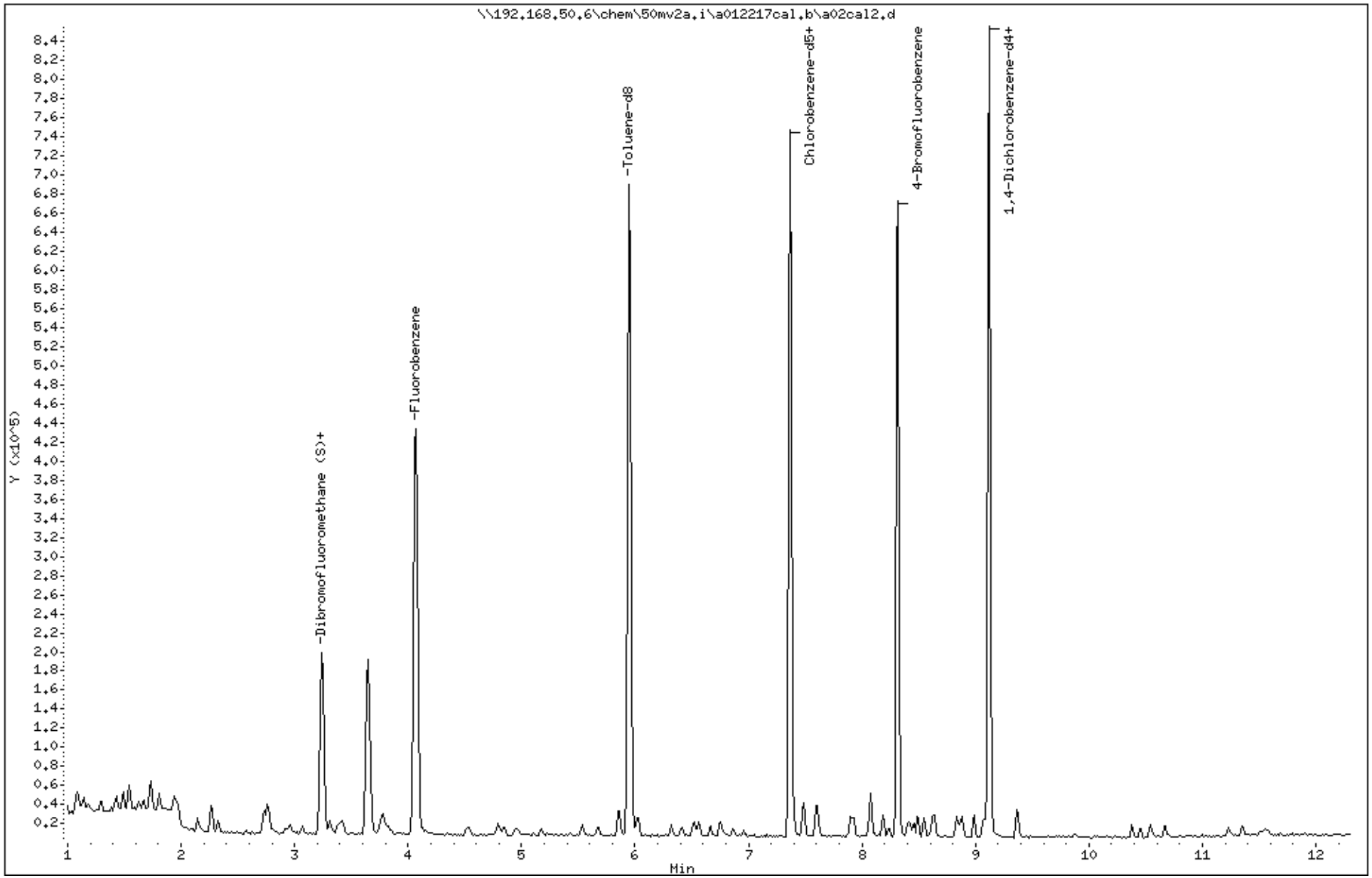
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a02cal2.d
Date : 22-JAN-2017 22:27
Client ID: 8260-CAL2
Sample Info: 8260-CAL2,140427:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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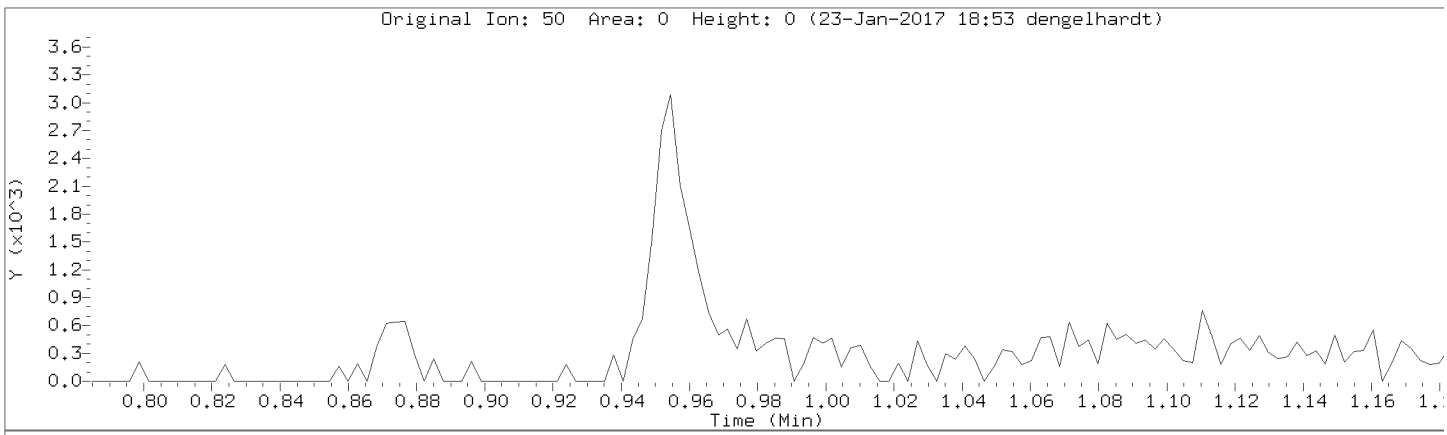
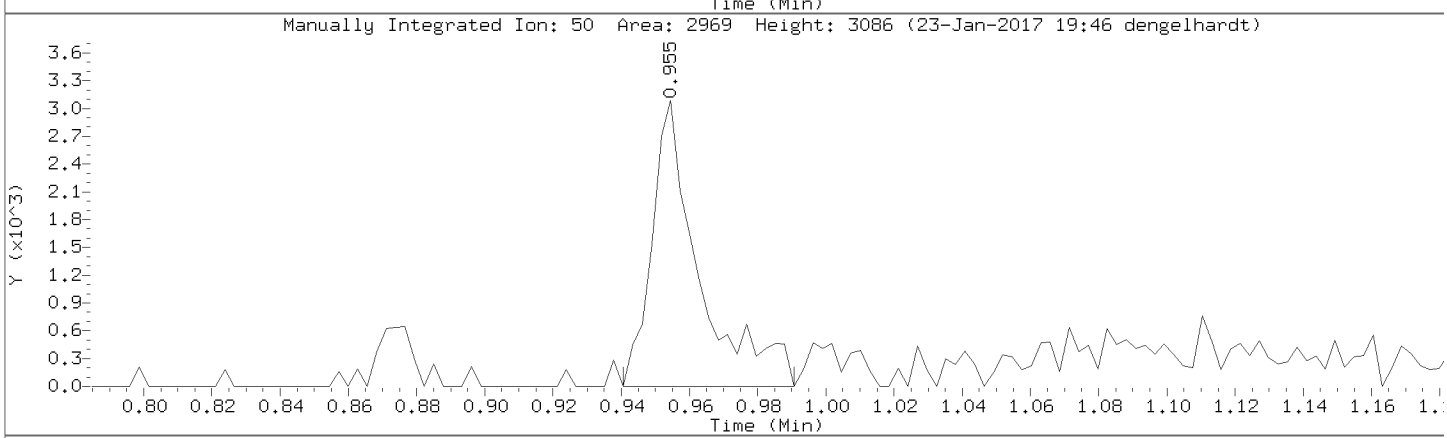
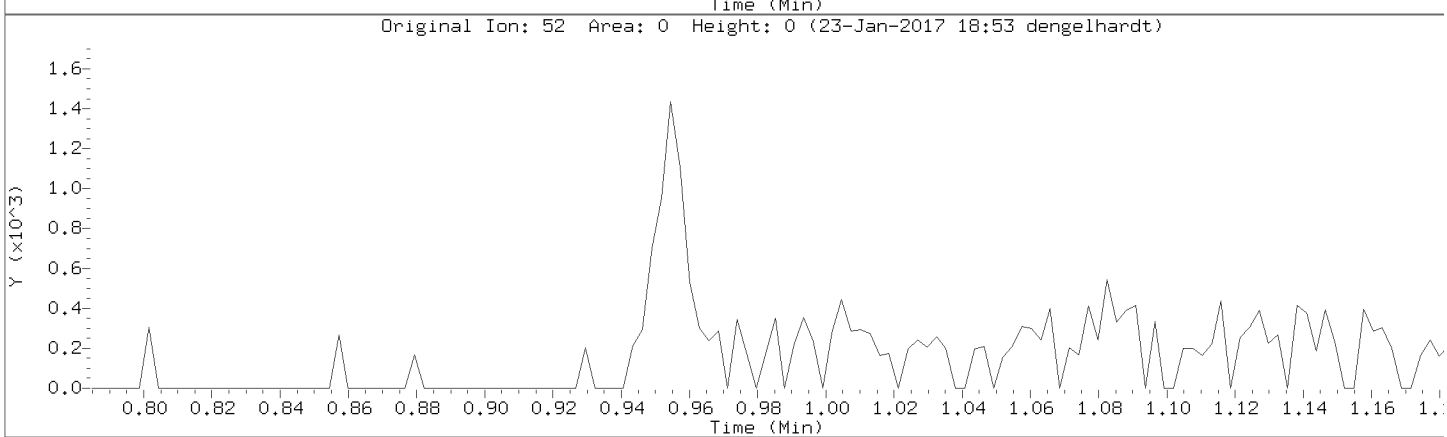
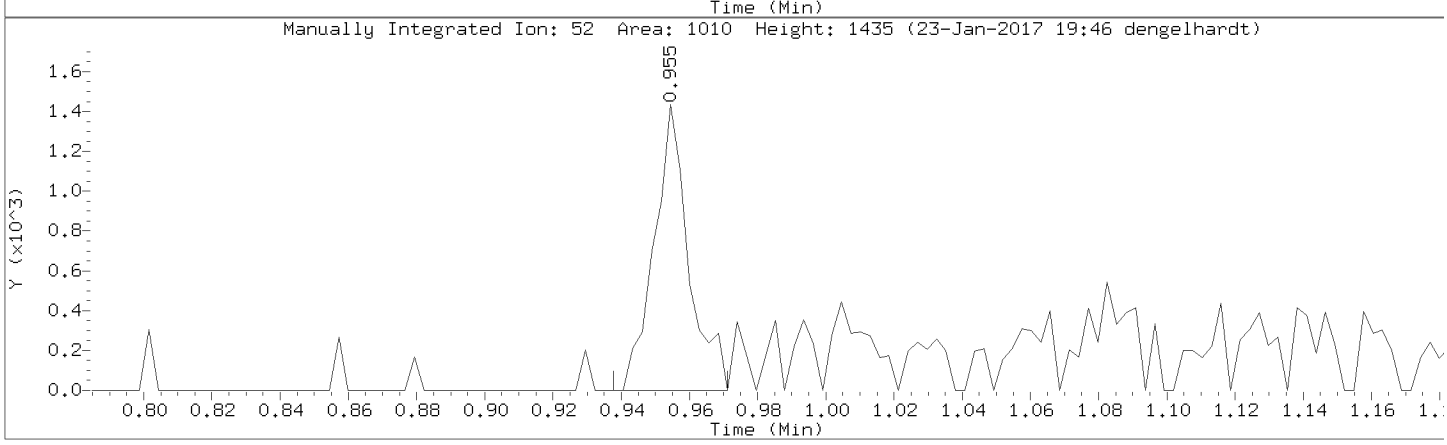
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chloromethane Review Code: NI
CAS Number: 74-87-3









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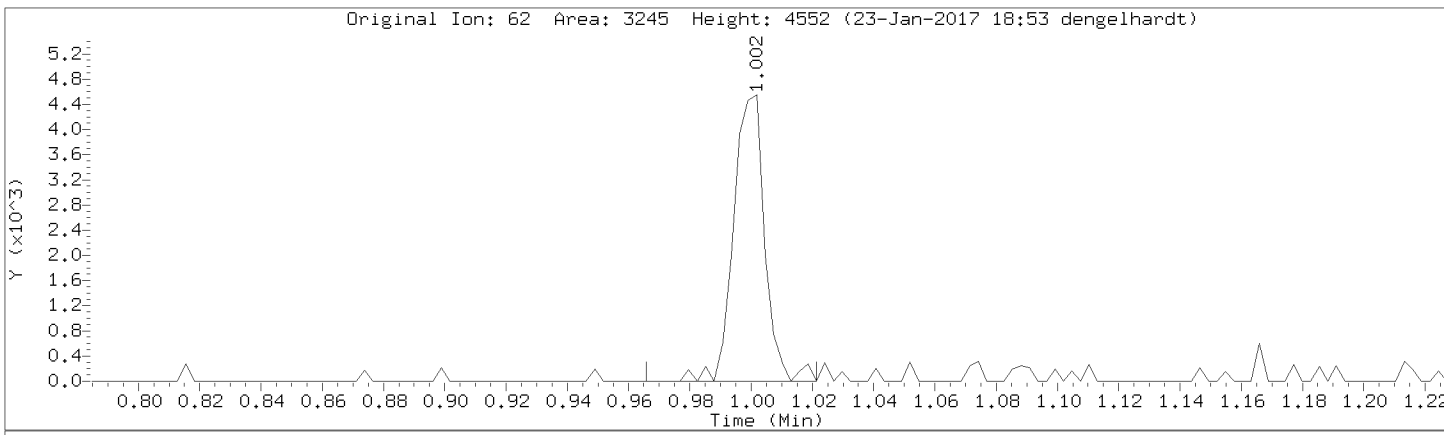
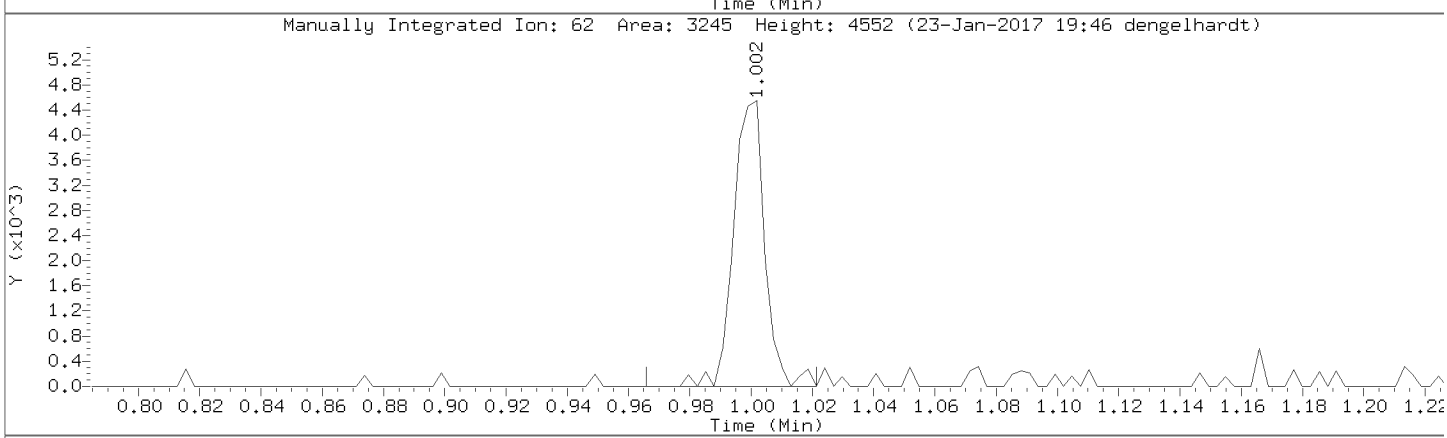
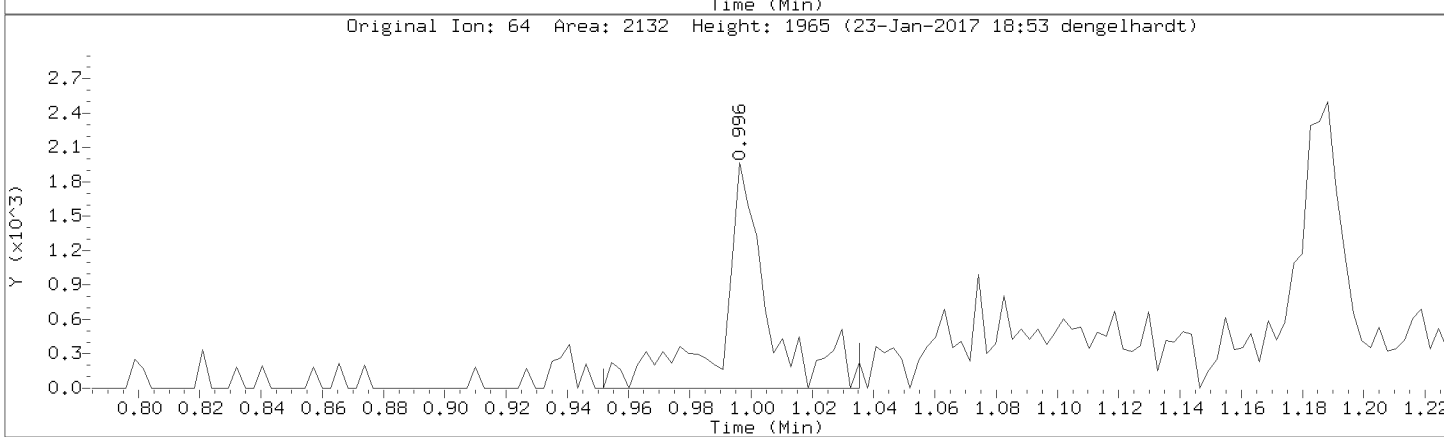
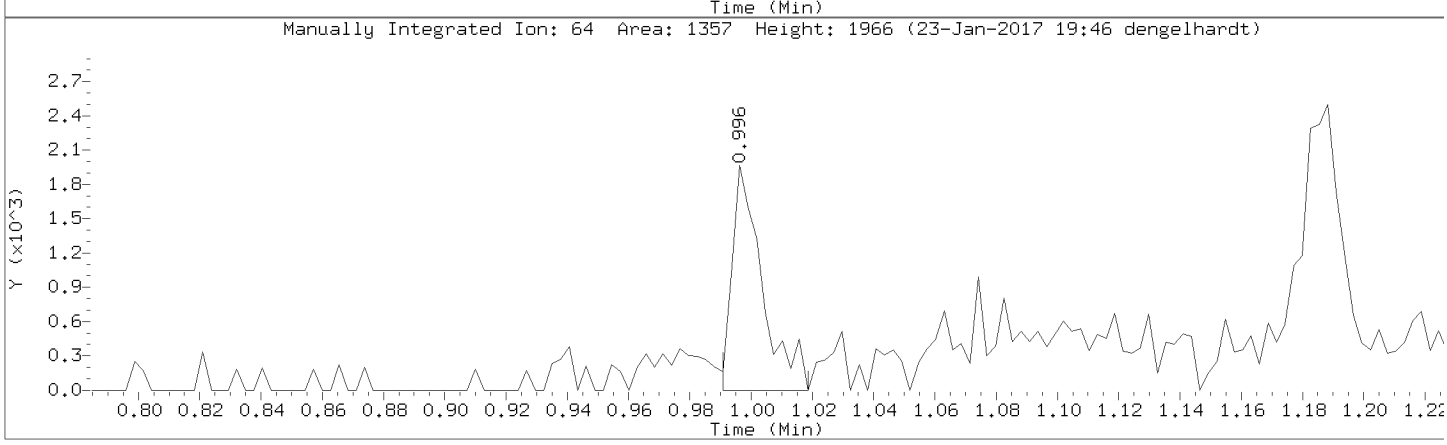
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4









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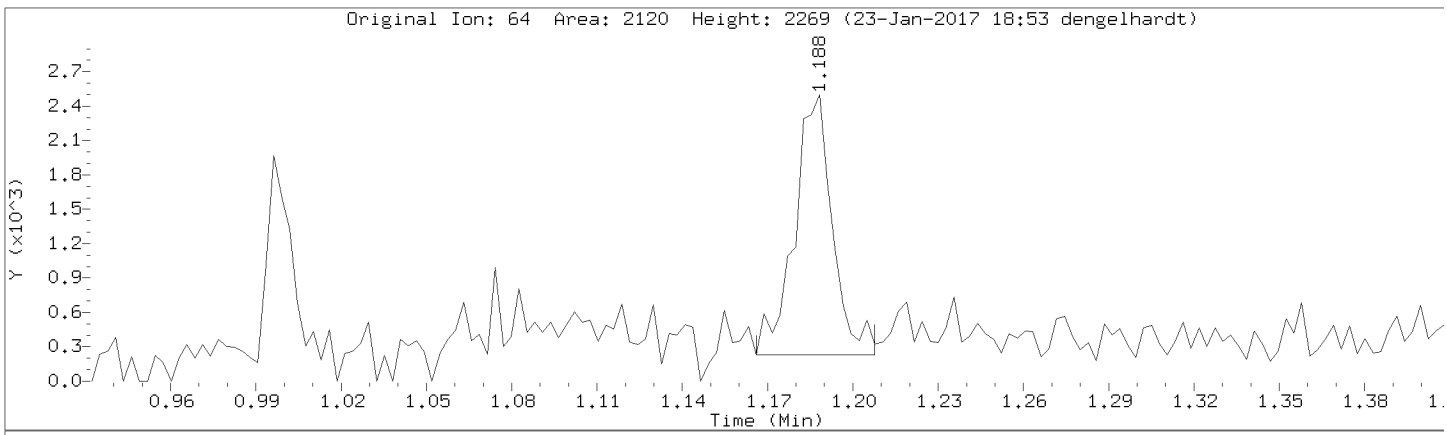
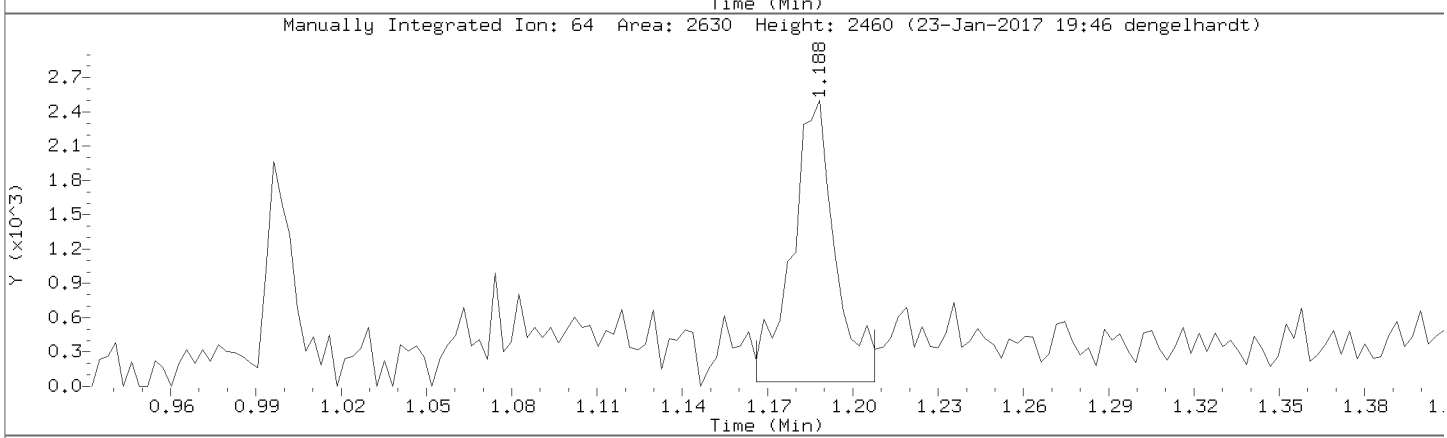
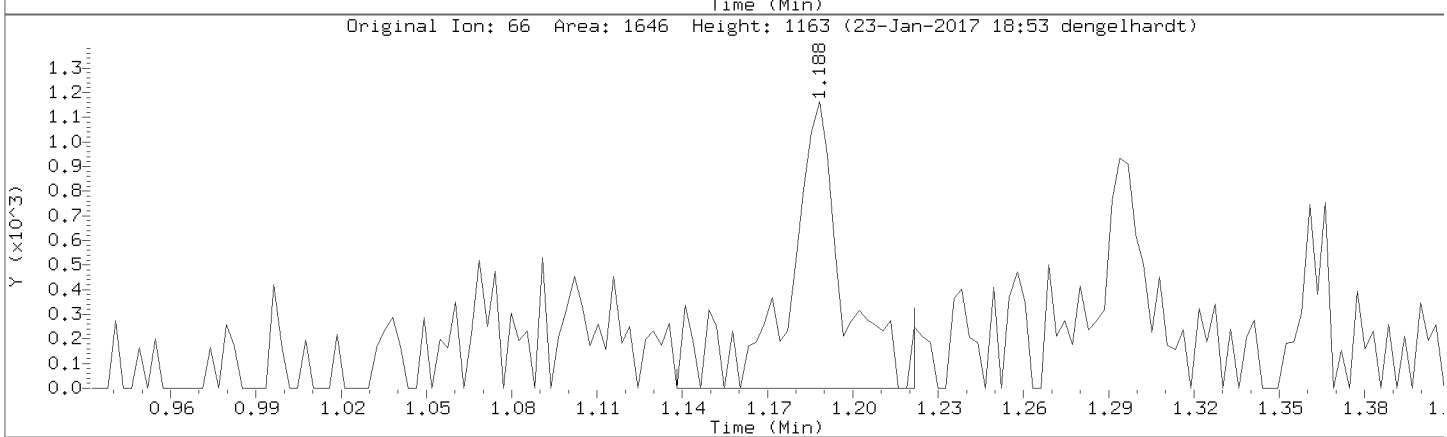
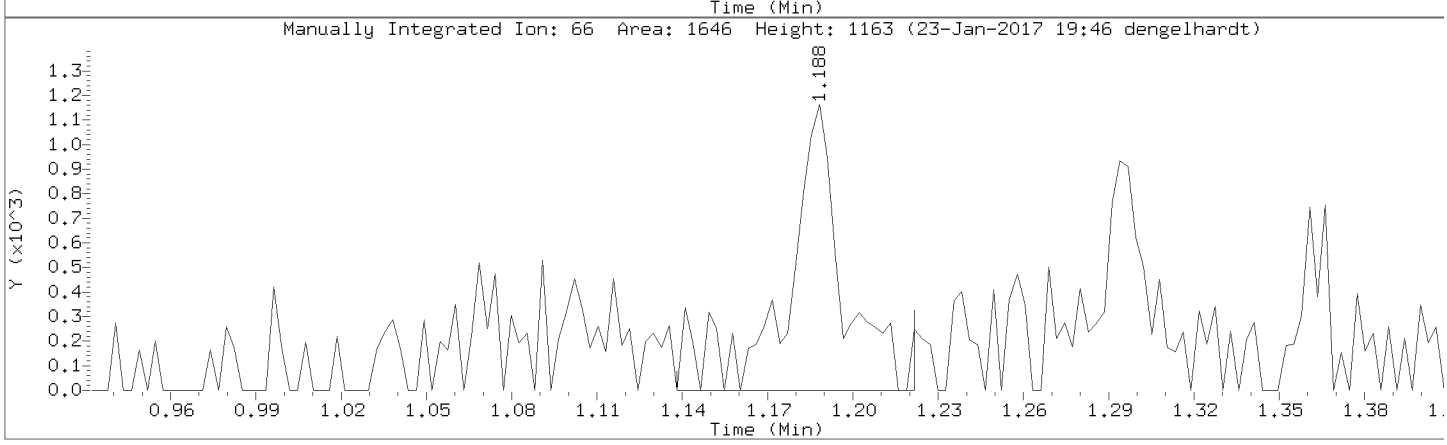
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chloroethane Review Code: LT
CAS Number: 75-00-3









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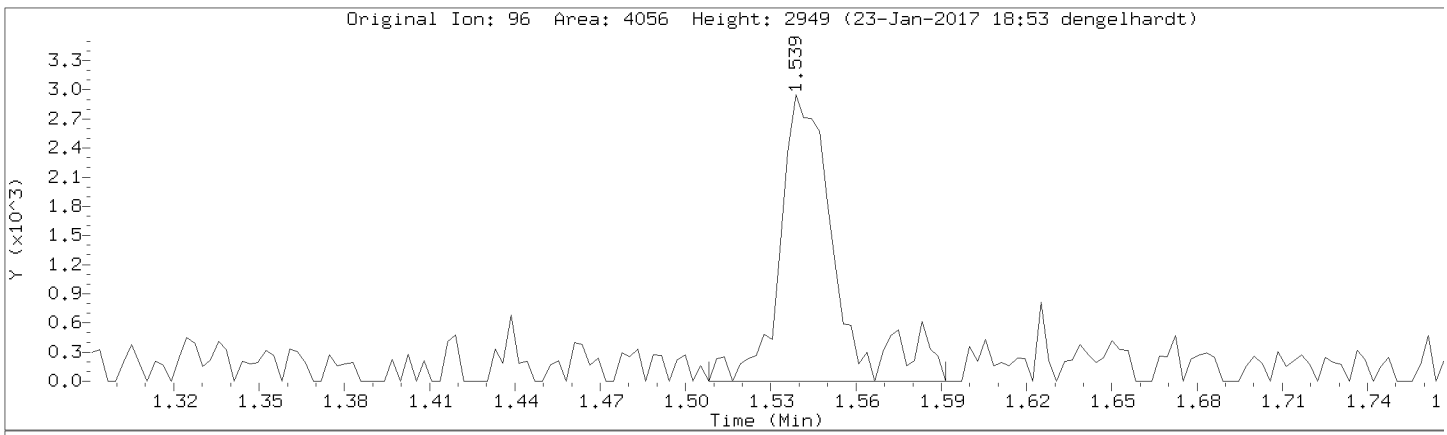
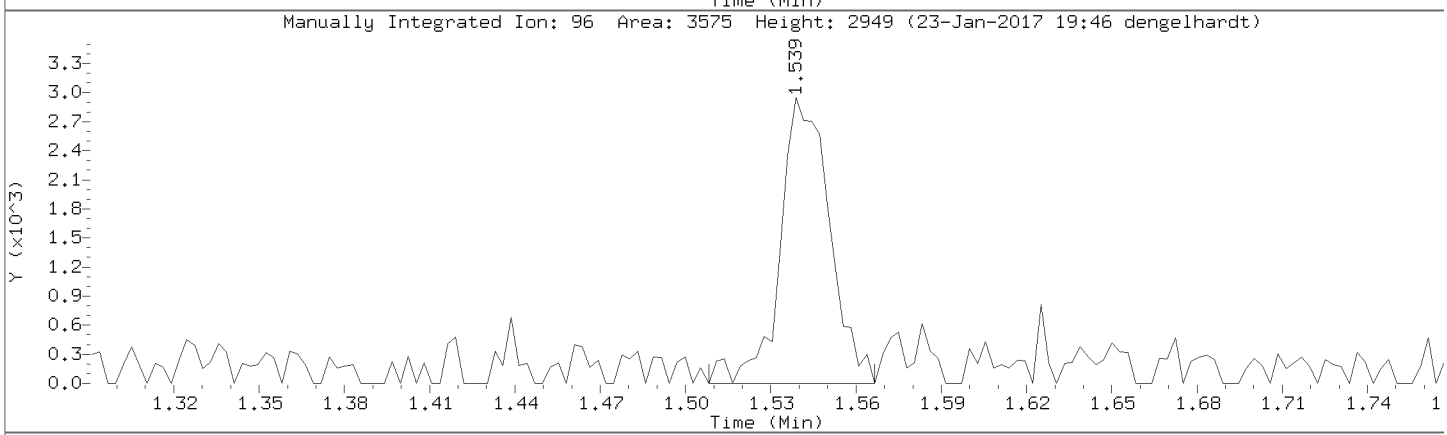
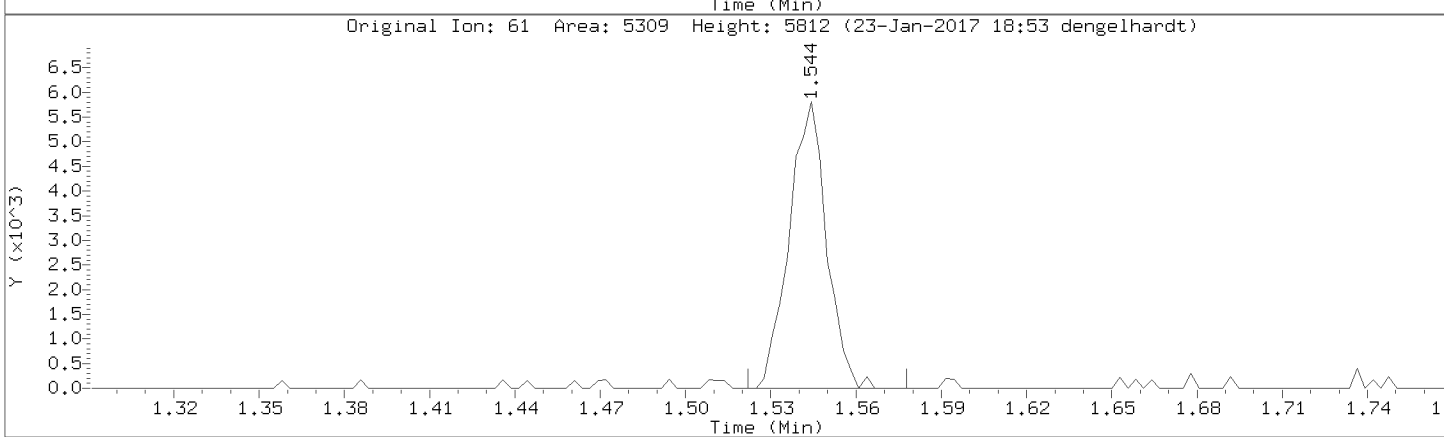
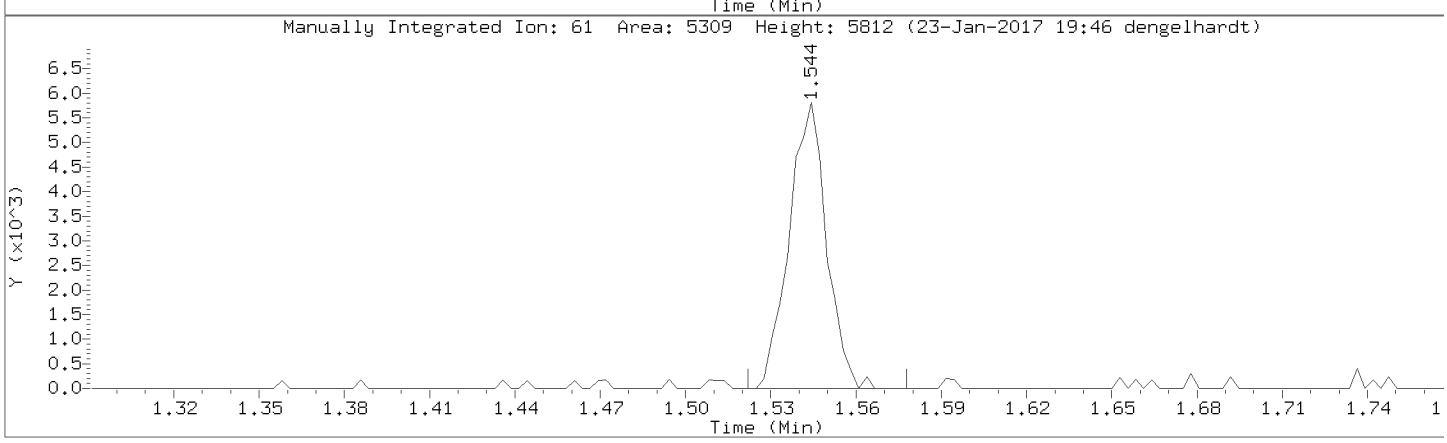
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethene Review Code: GT
CAS Number: 75-35-4









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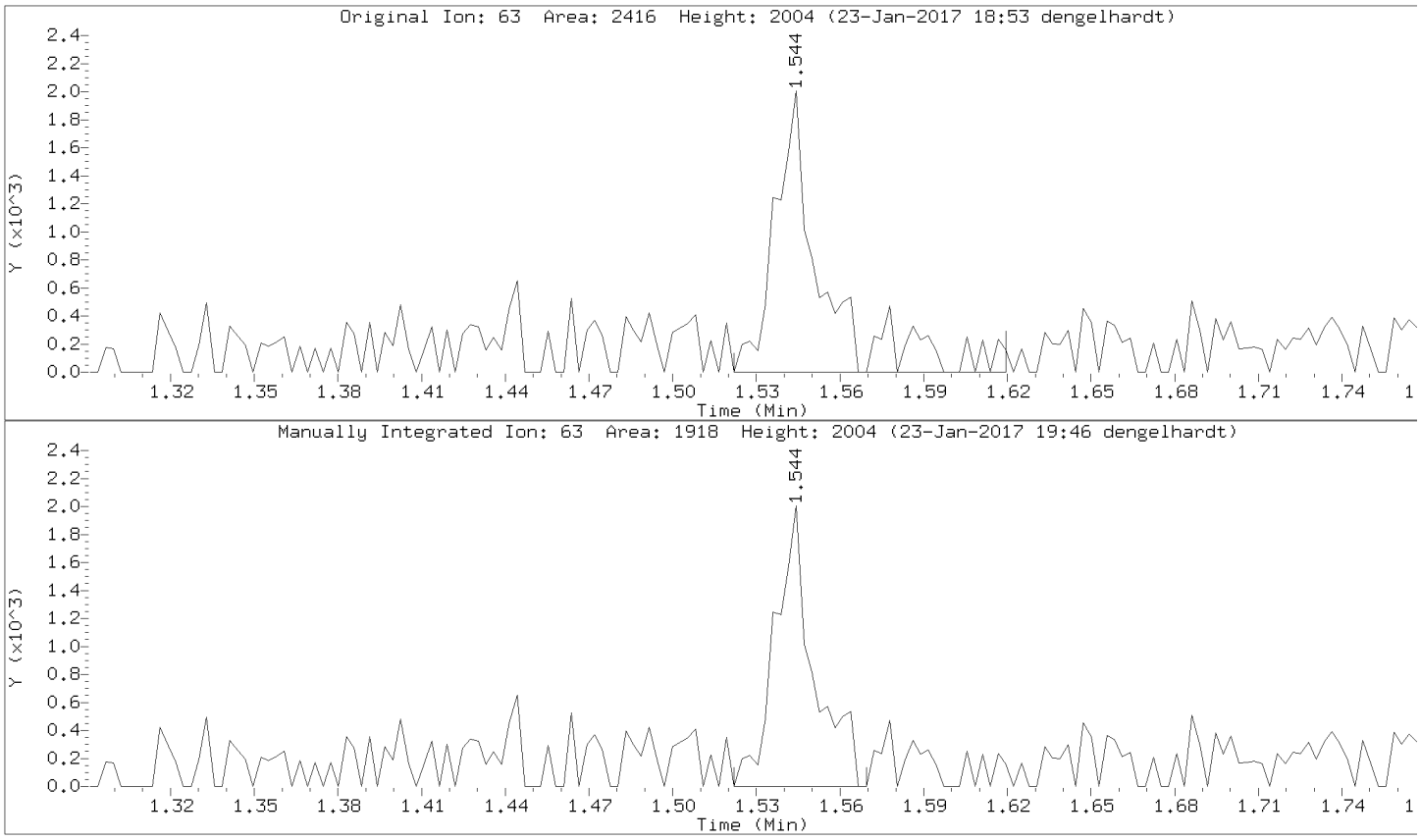
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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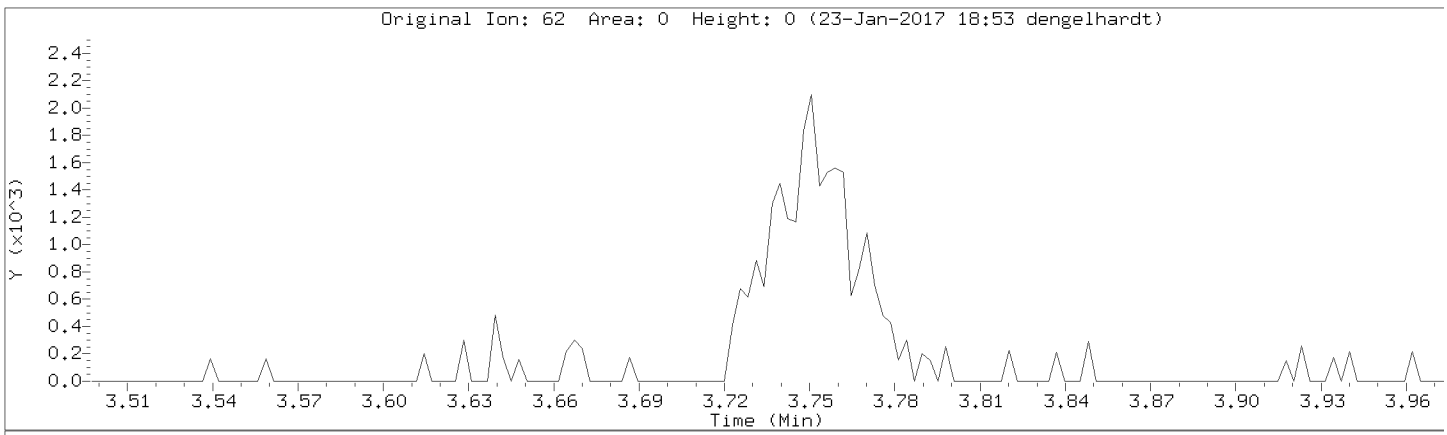
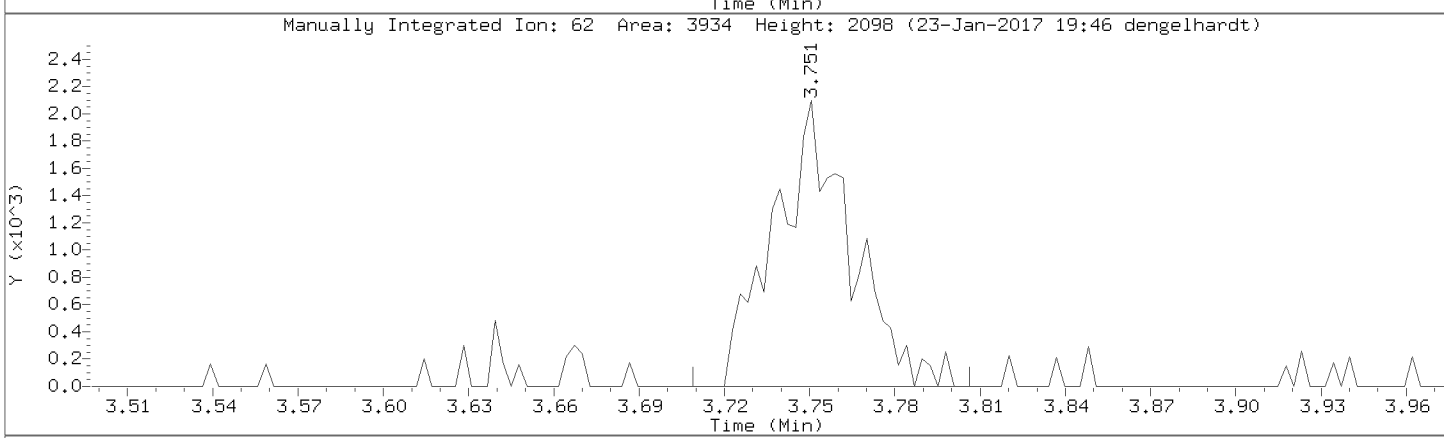
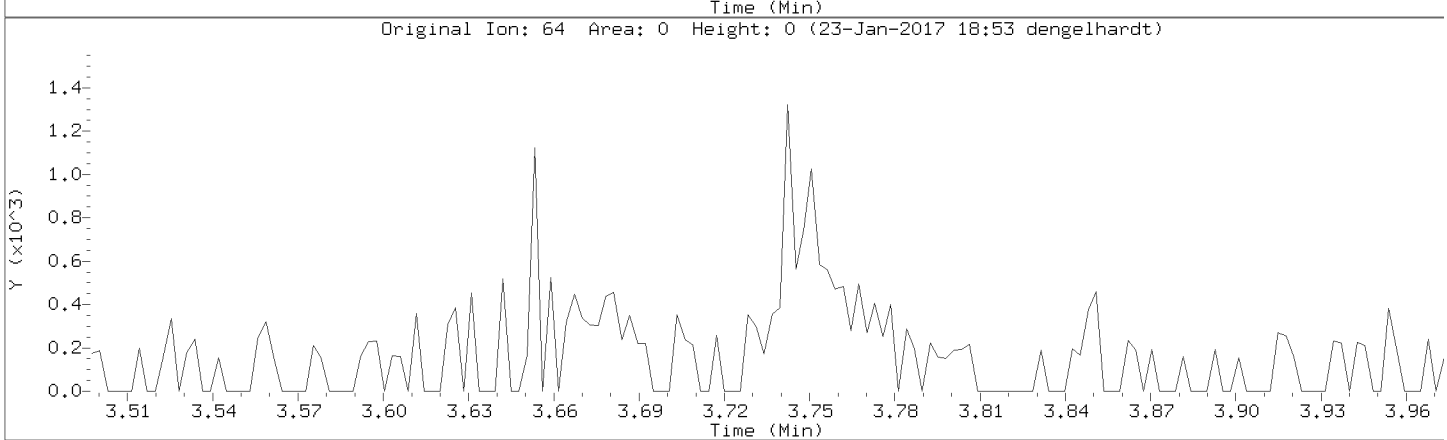
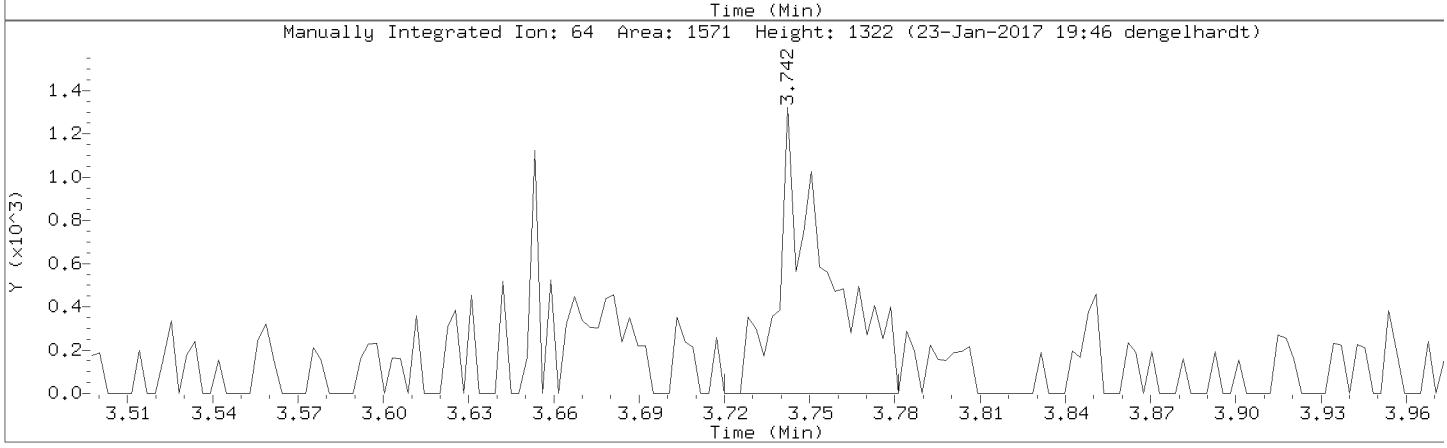
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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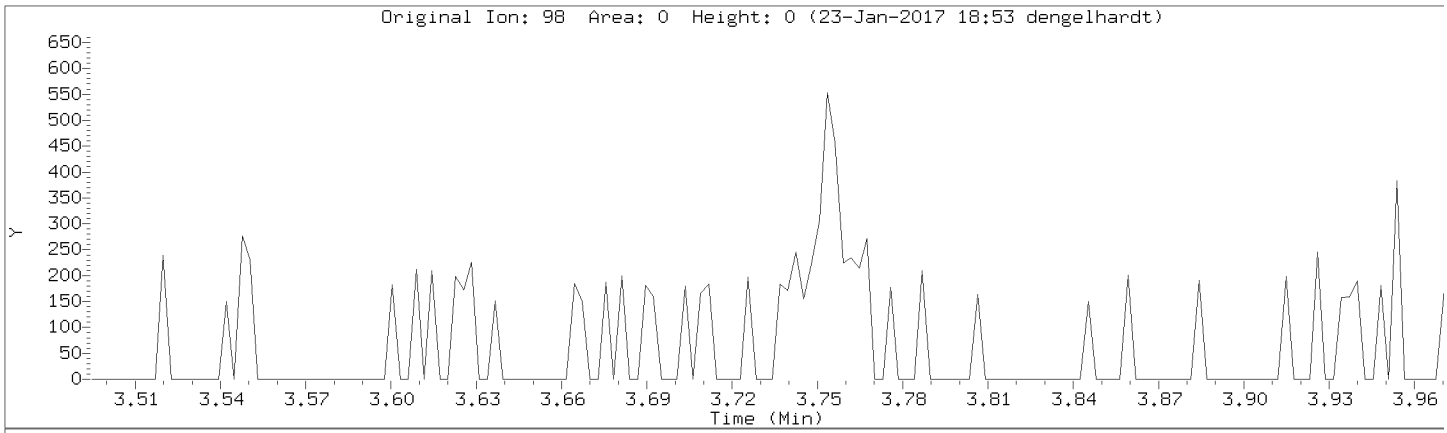
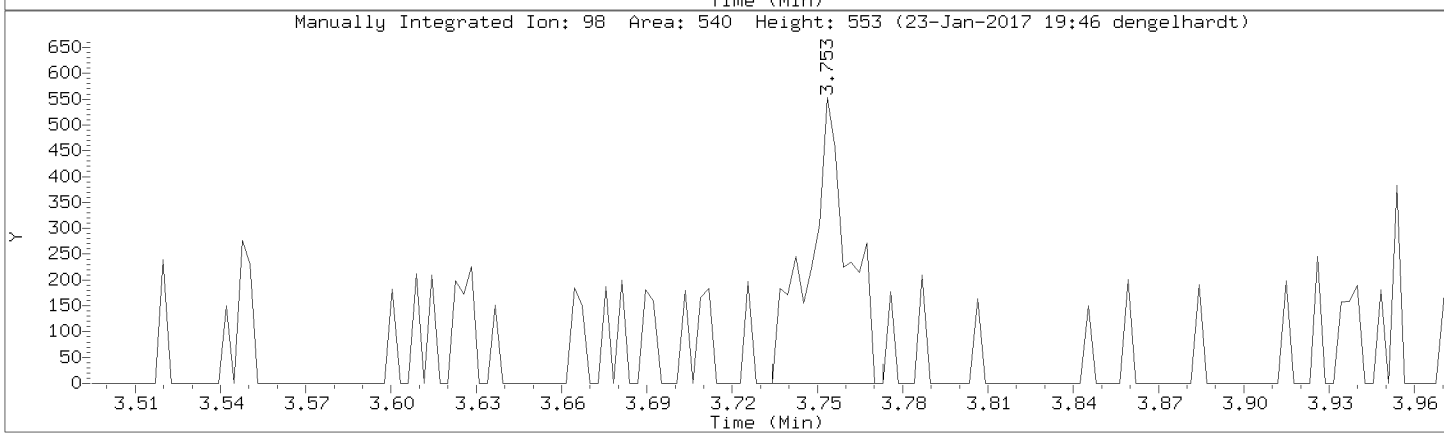
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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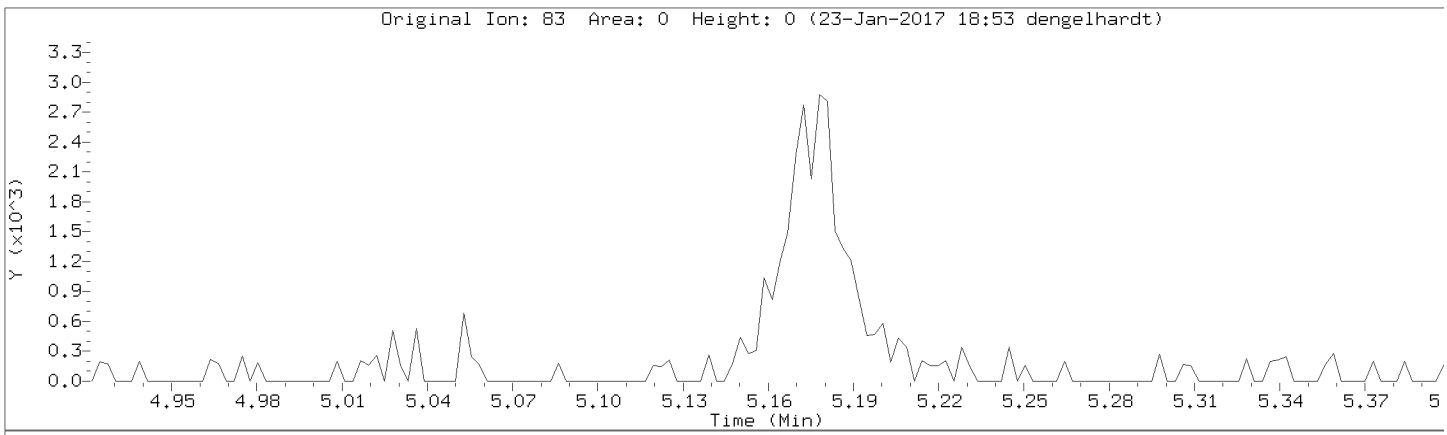
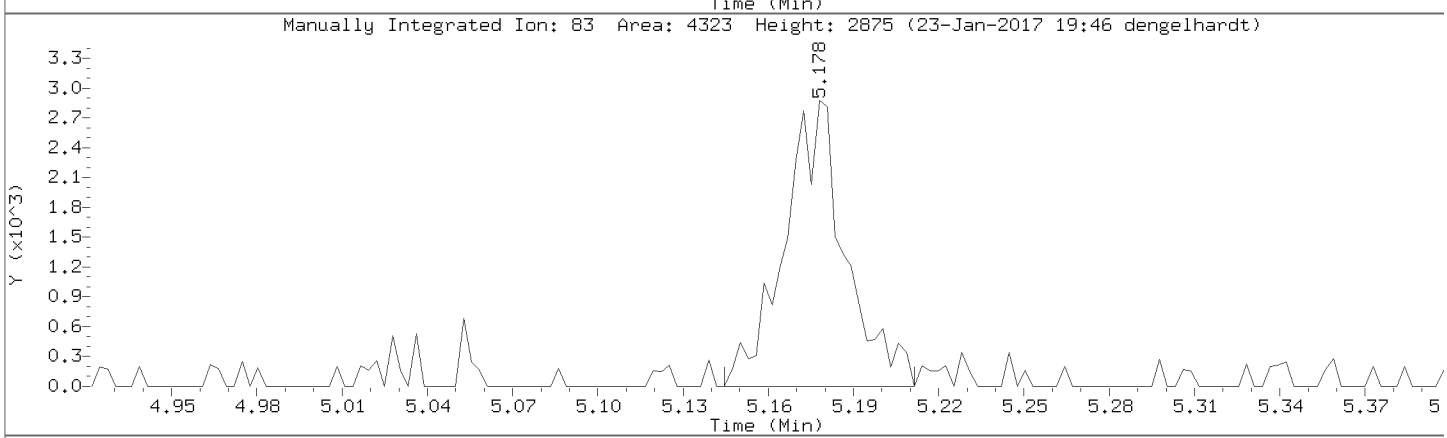
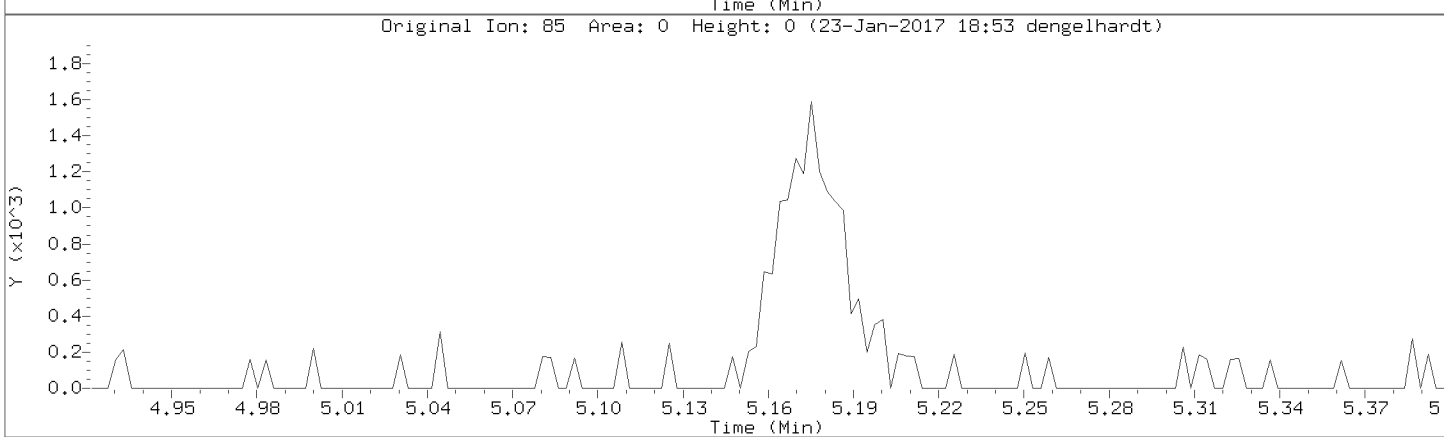
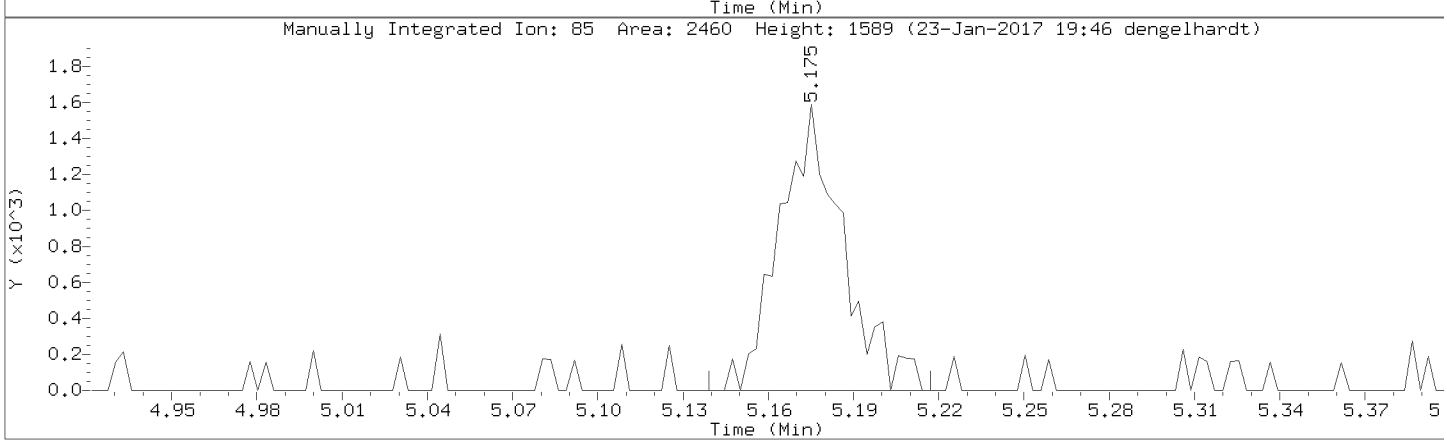
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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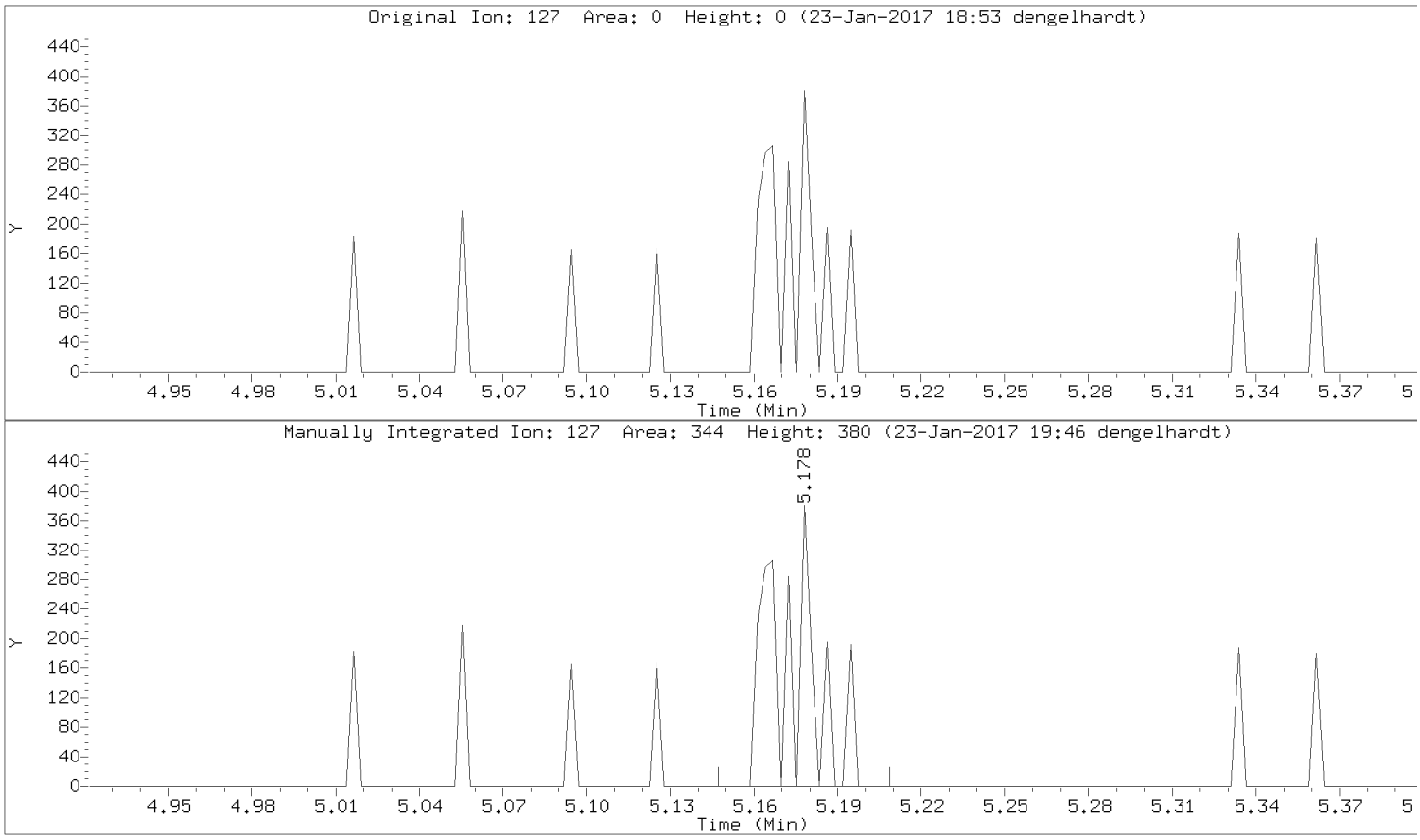
Lab Sample ID: 8260-CAL2



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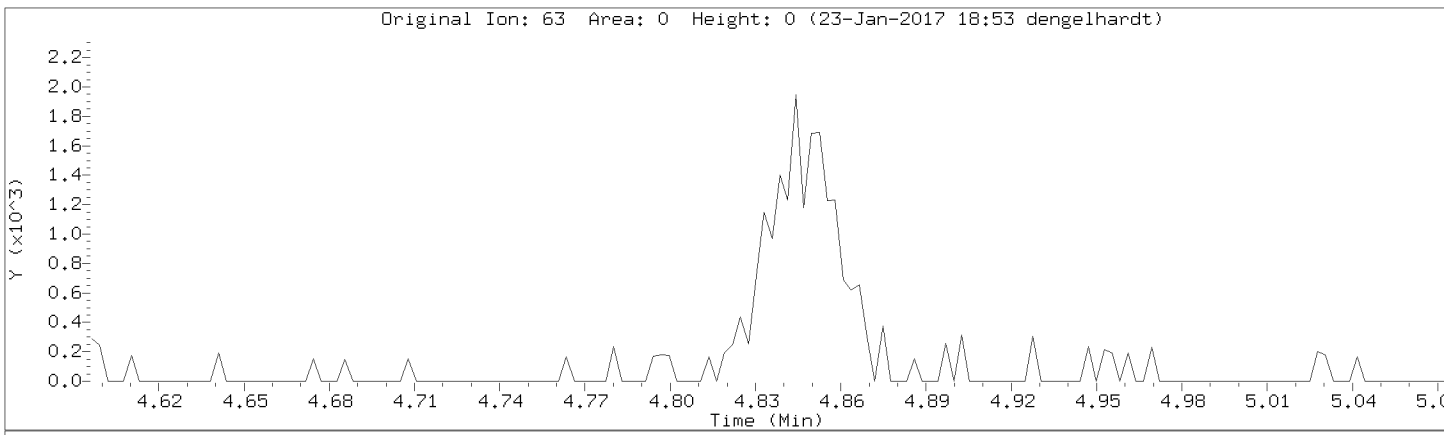
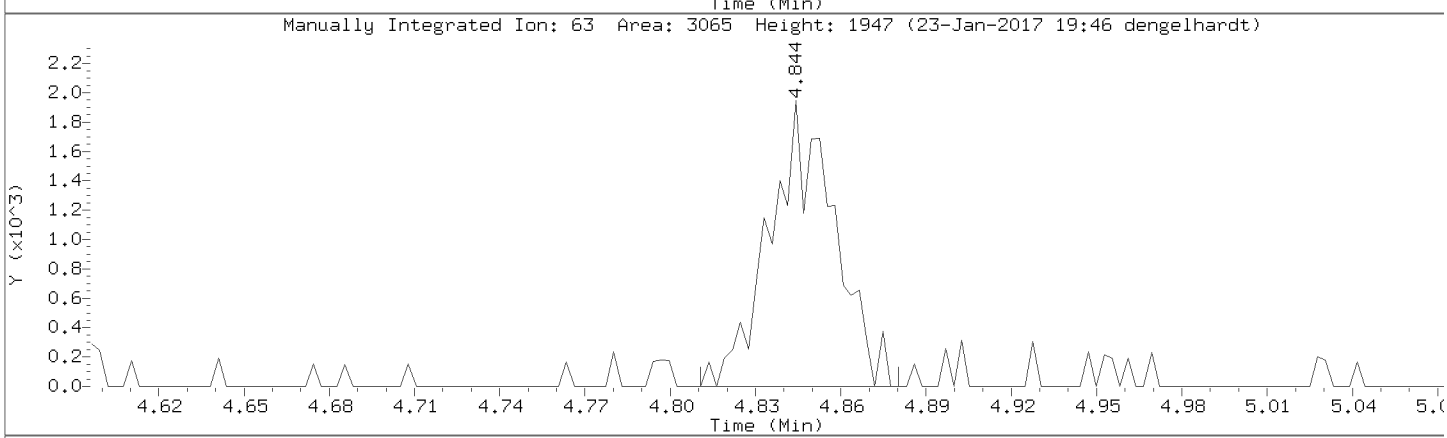
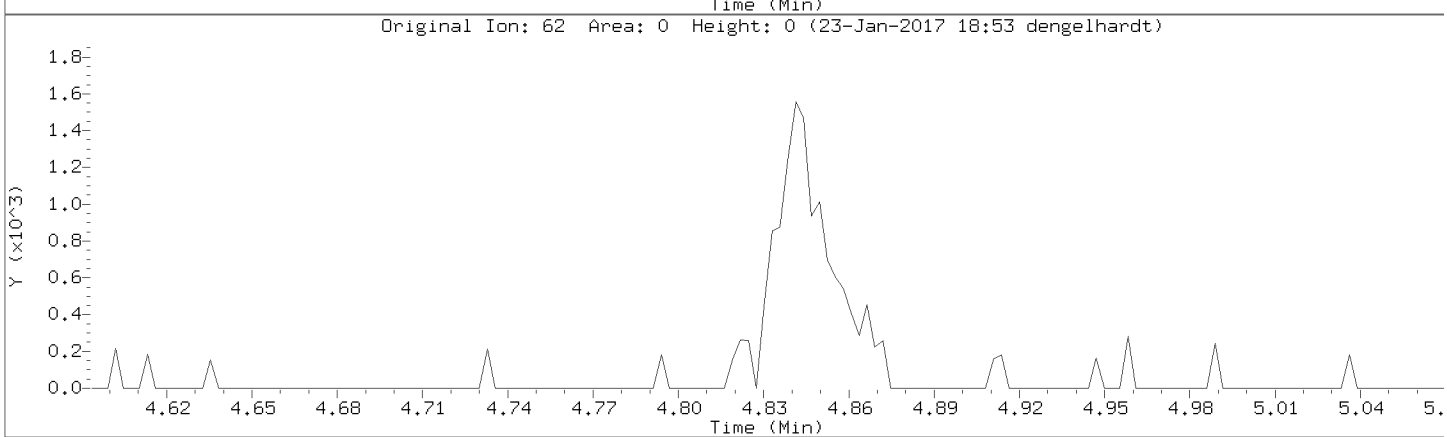
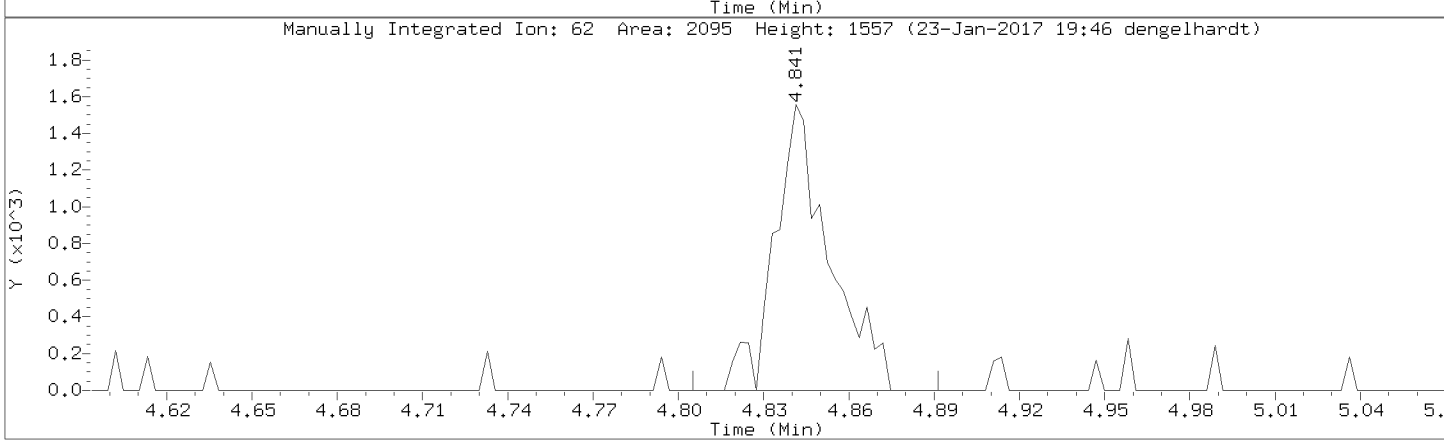
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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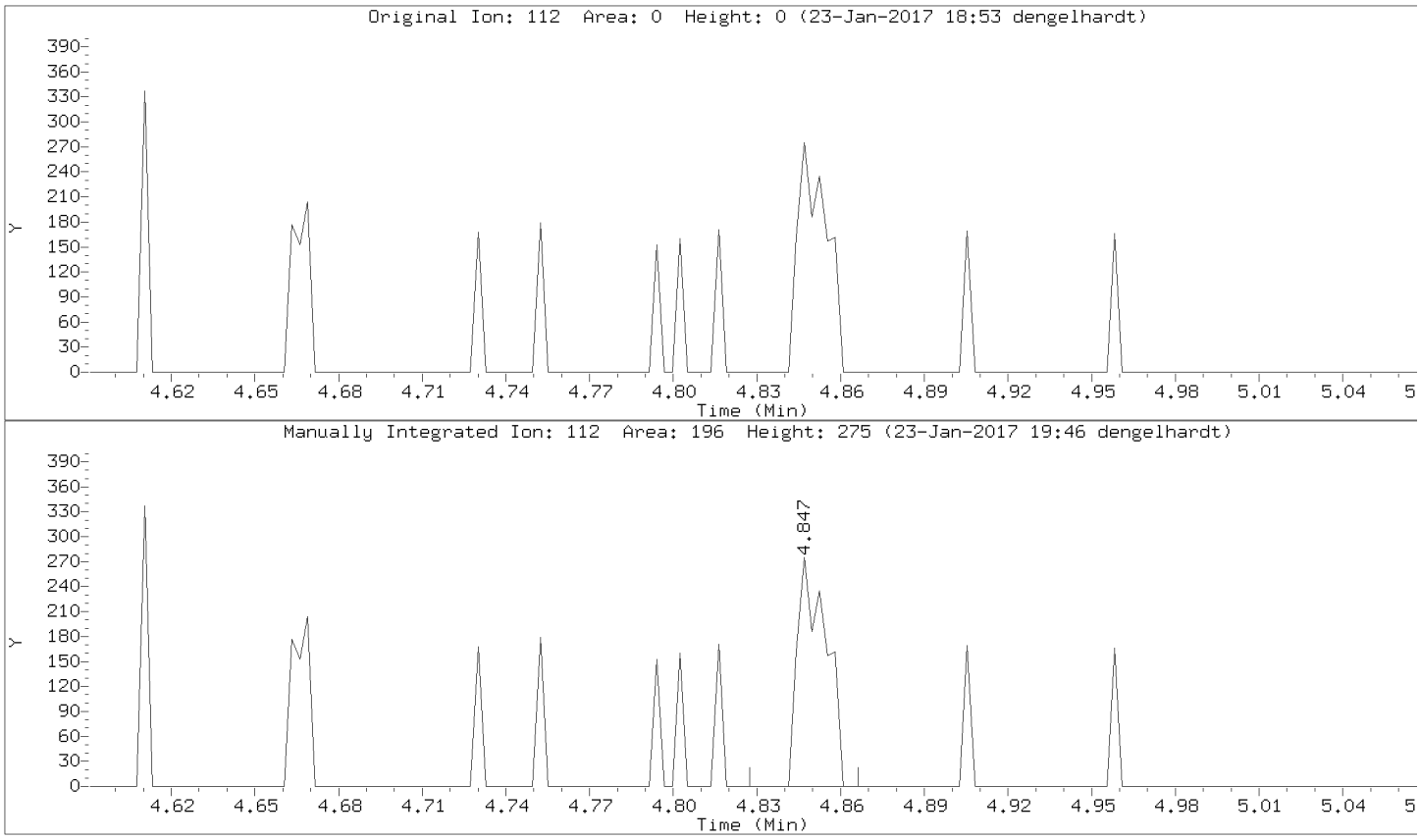
Lab Sample ID: 8260-CAL2



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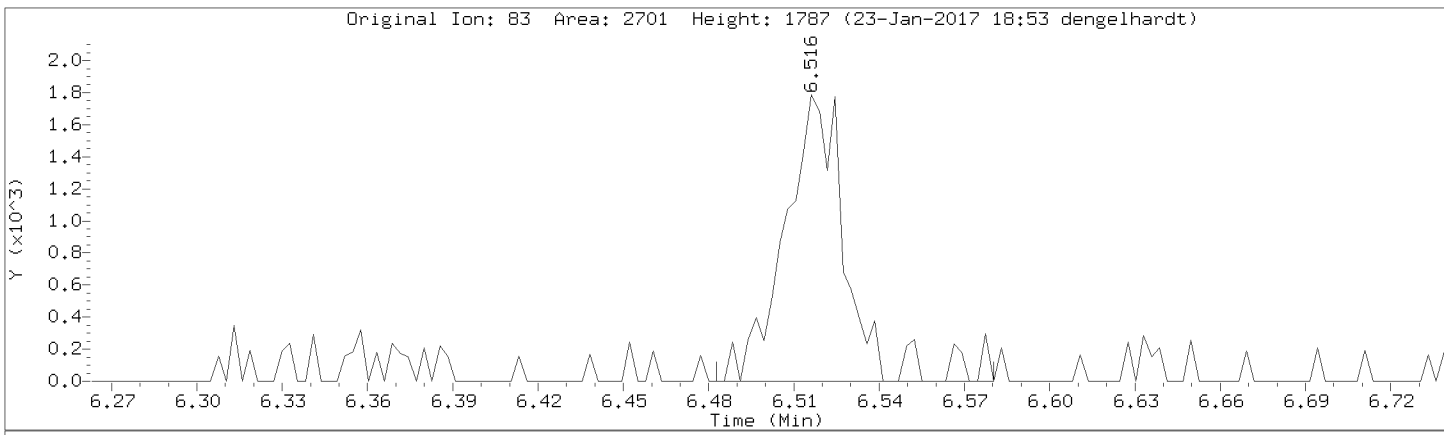
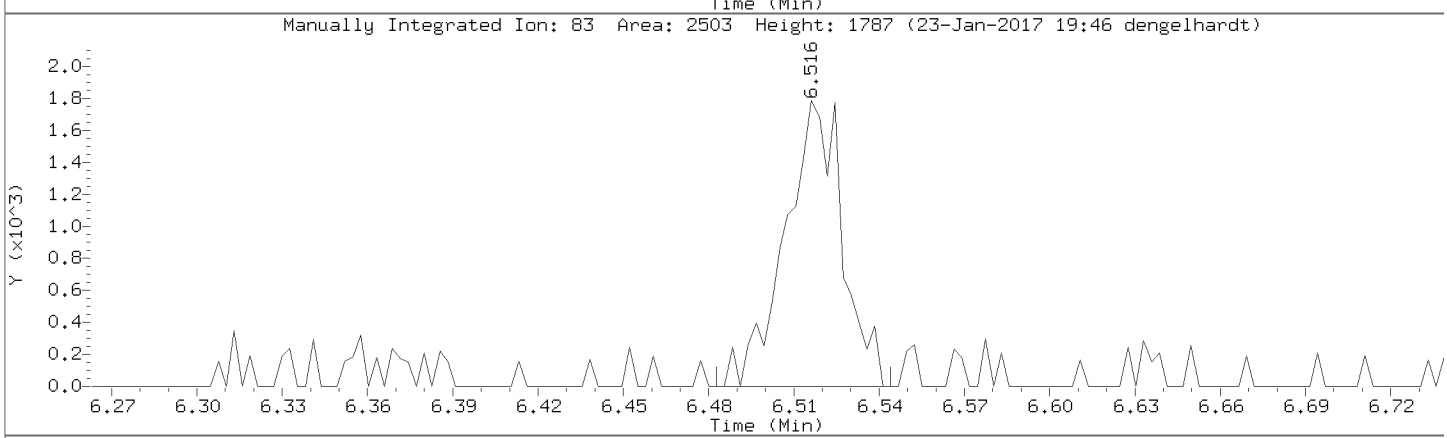
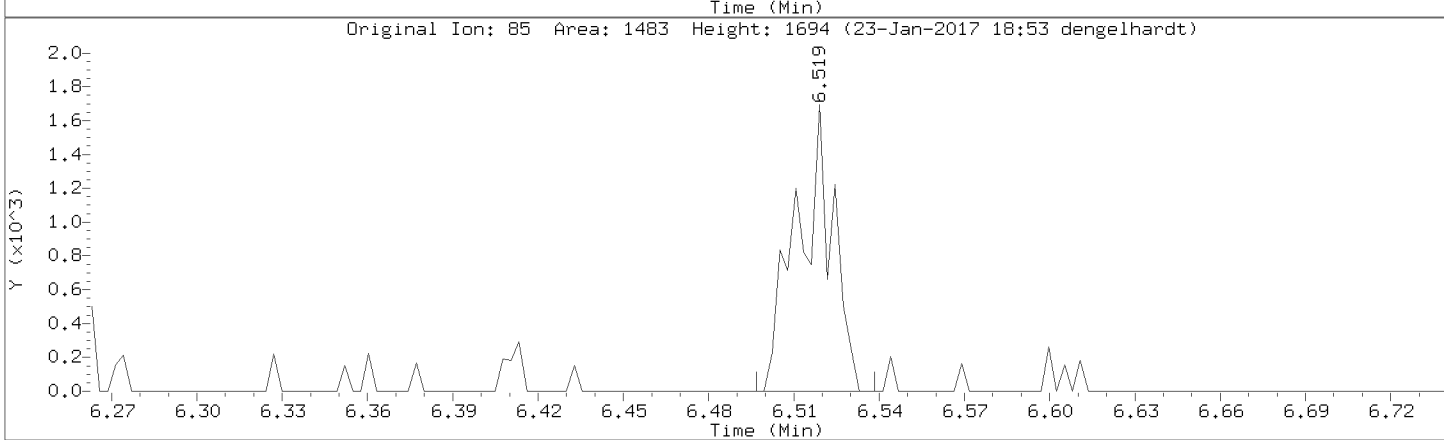
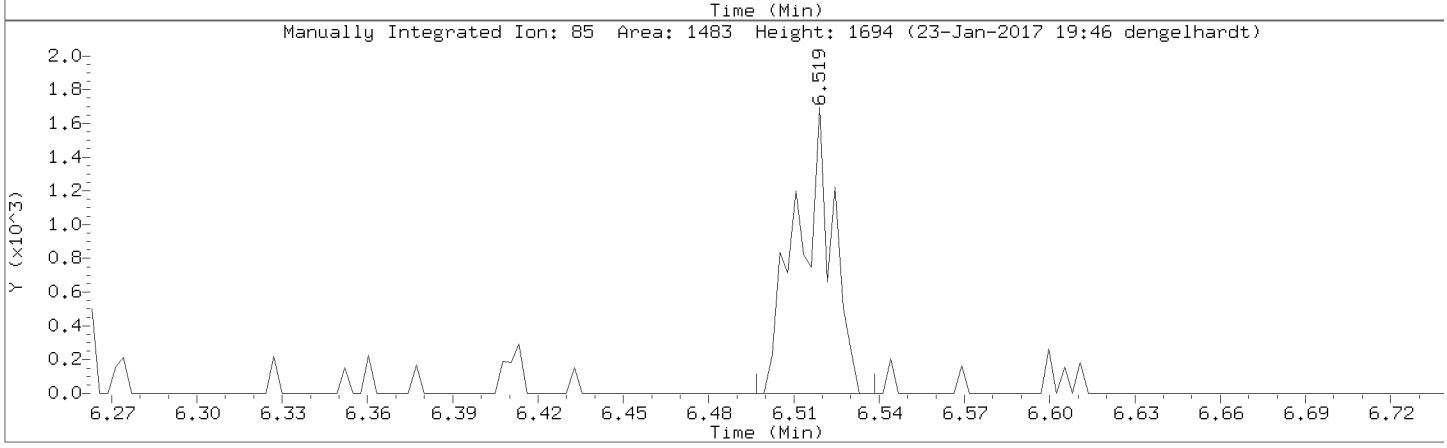
Lab Sample ID: 8260-CAL2

Compound: 1,1,2-Trichloroethane Review Code: GT
CAS Number: 79-00-5









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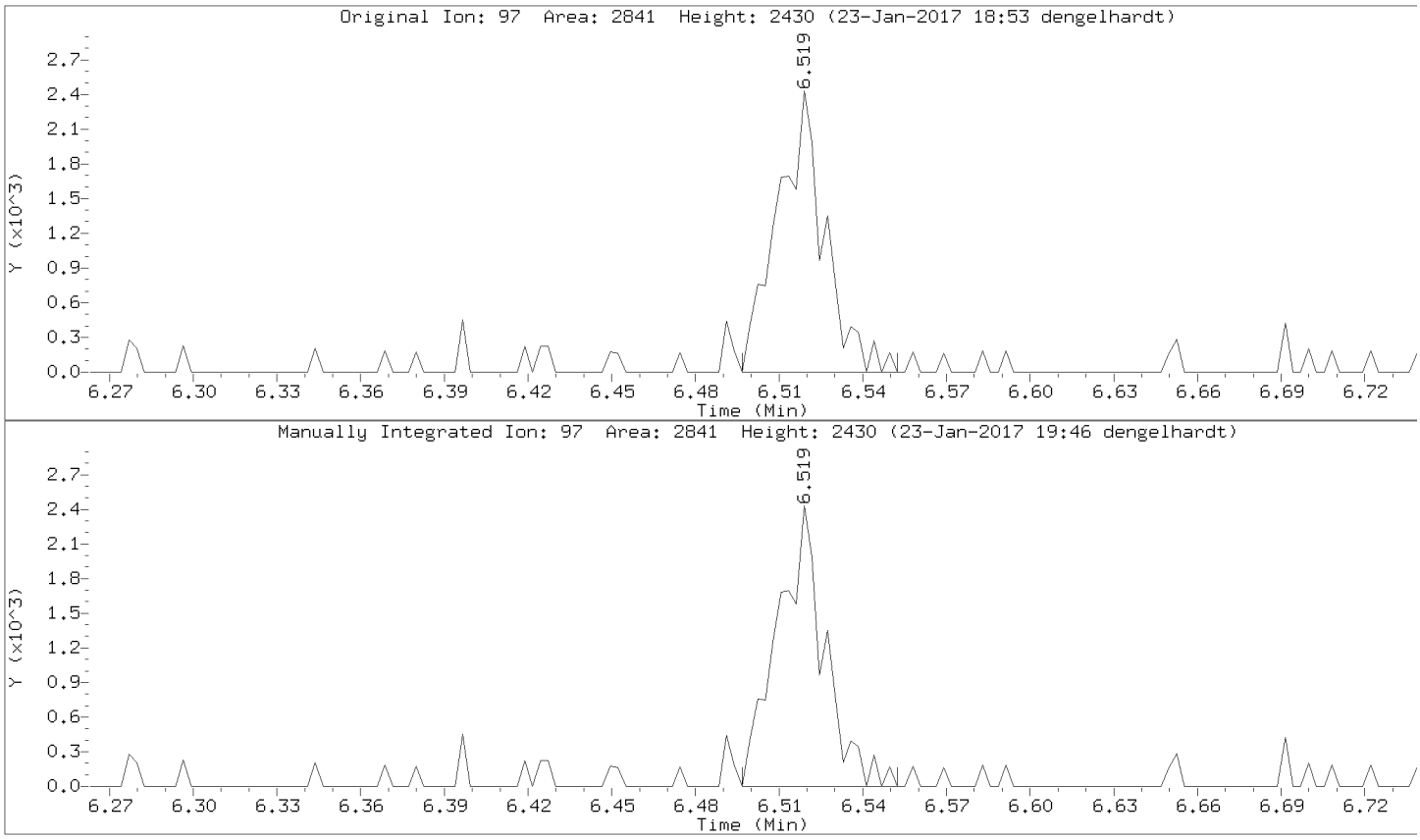

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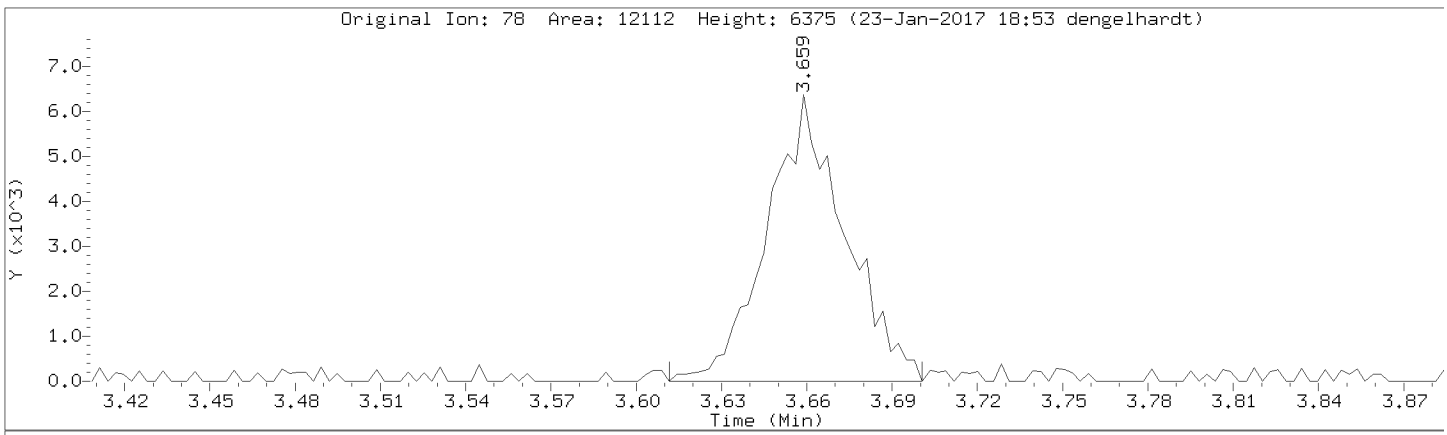
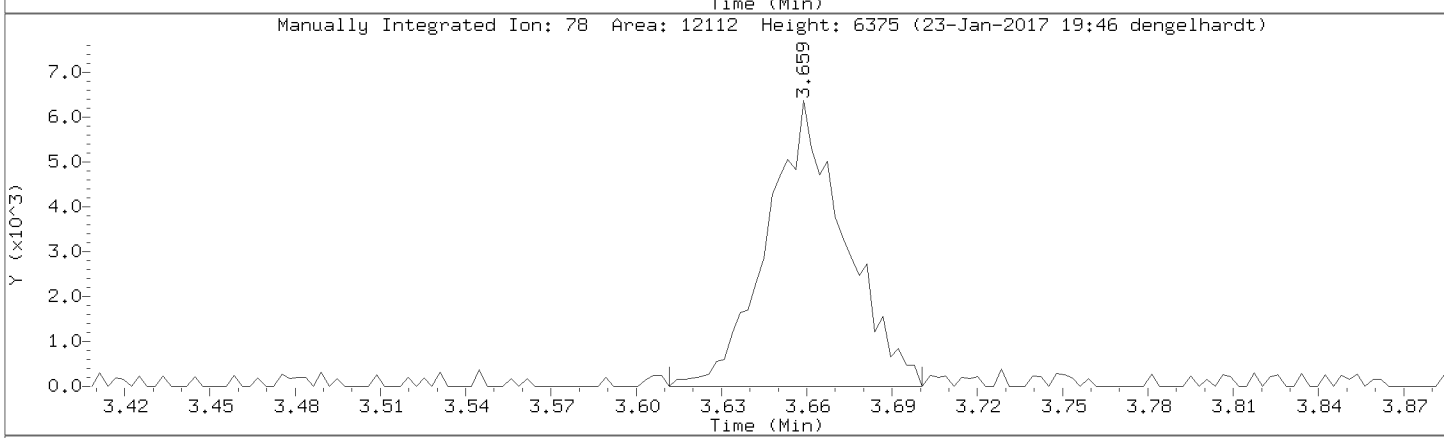
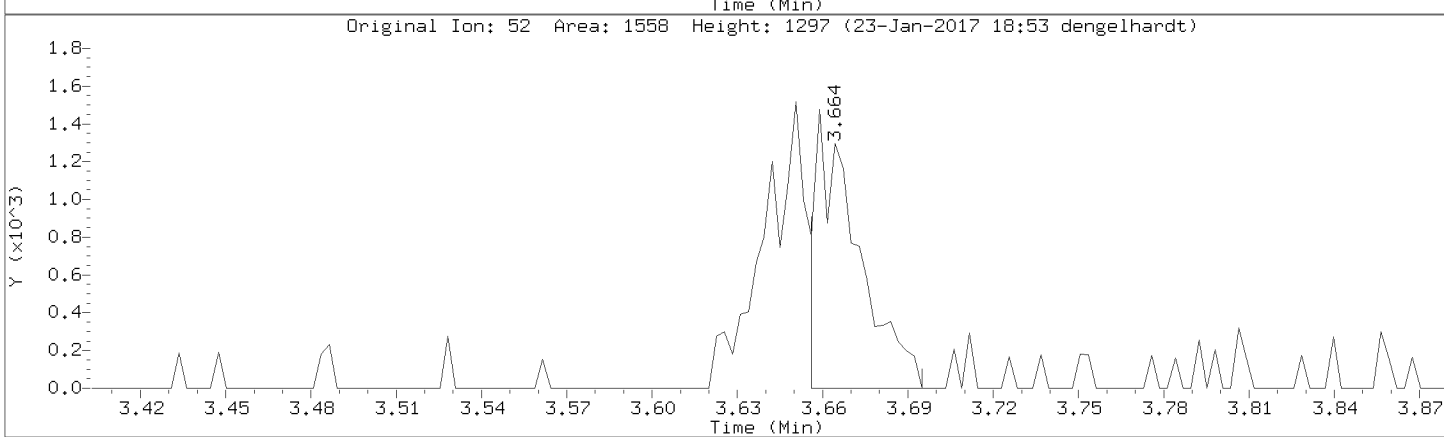
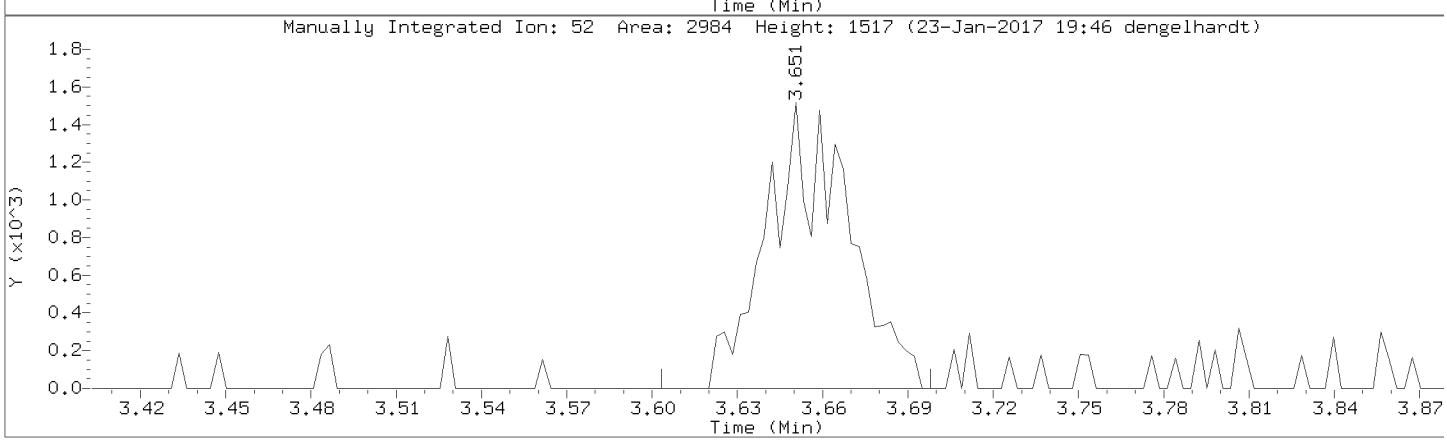
Lab Sample ID: 8260-CAL2

Compound: Benzene Review Code: LT
CAS Number: 71-43-2









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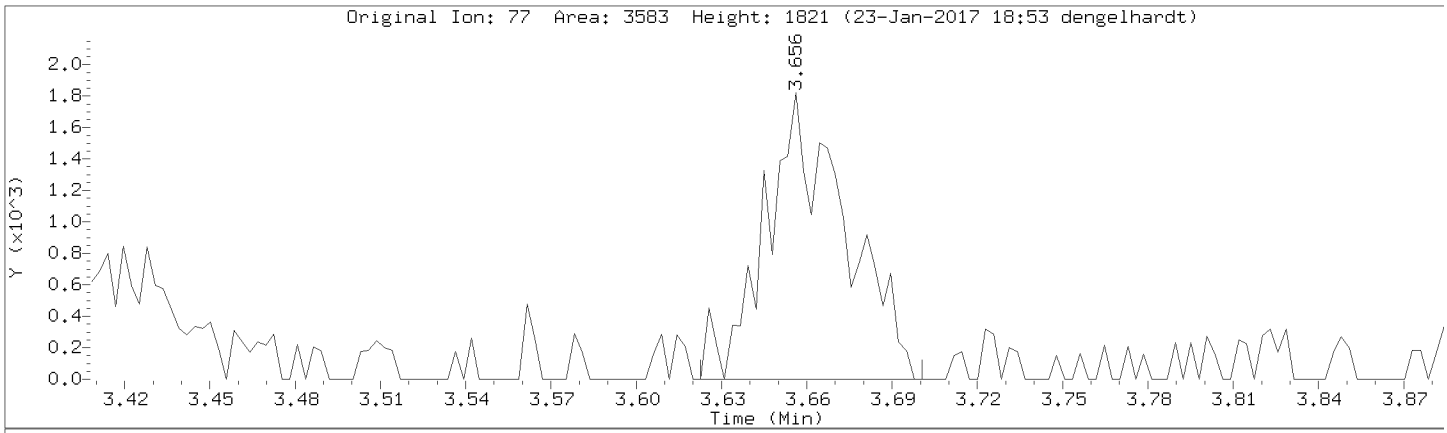

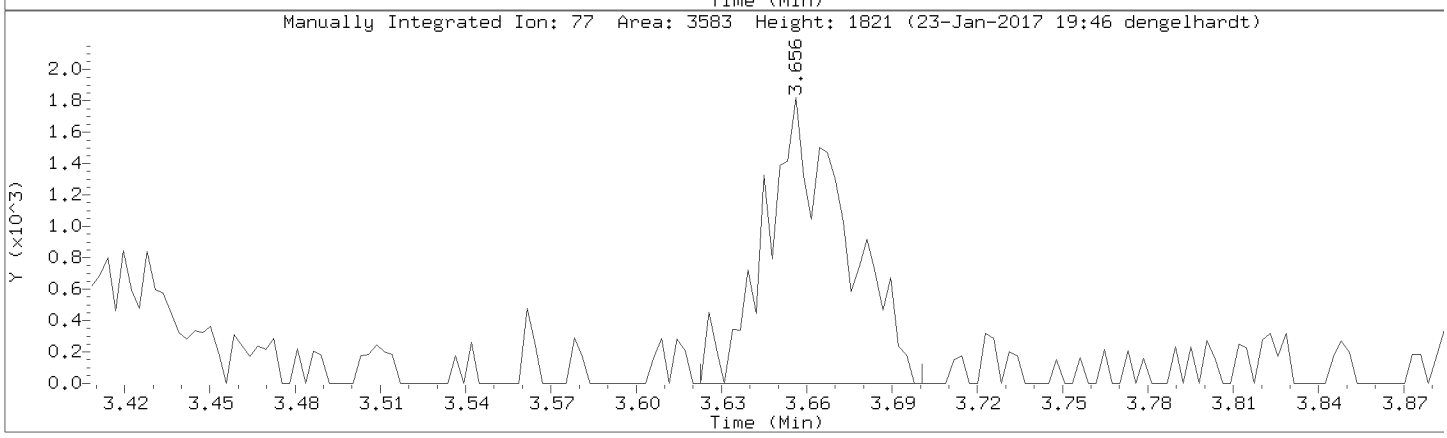

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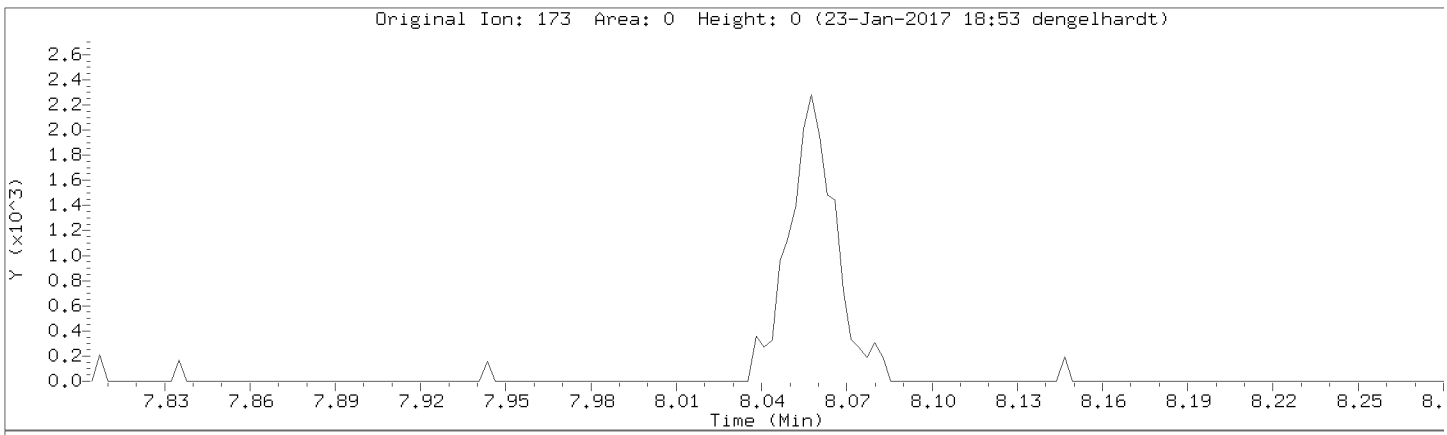
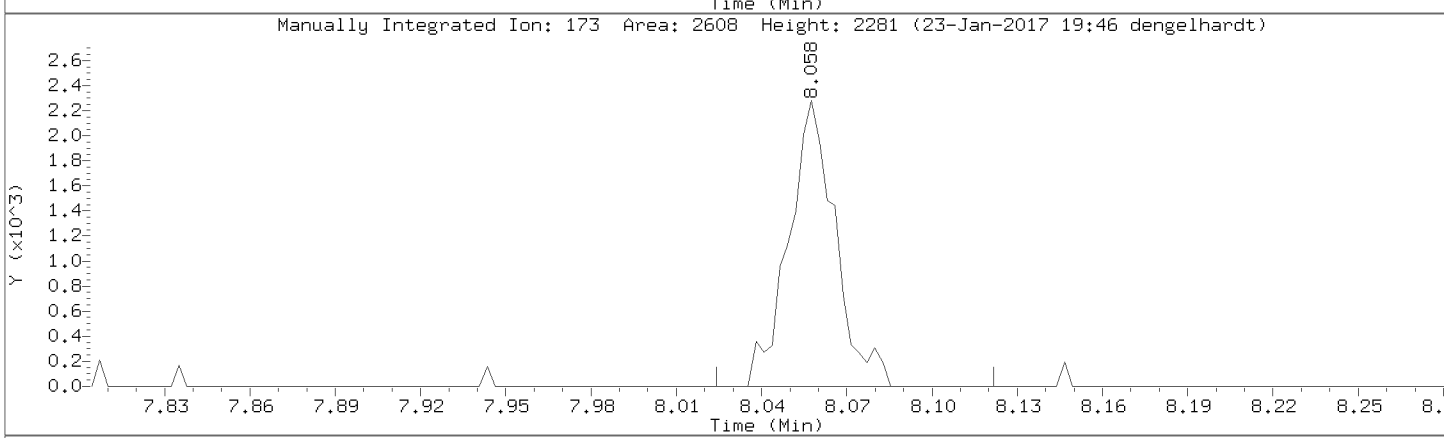
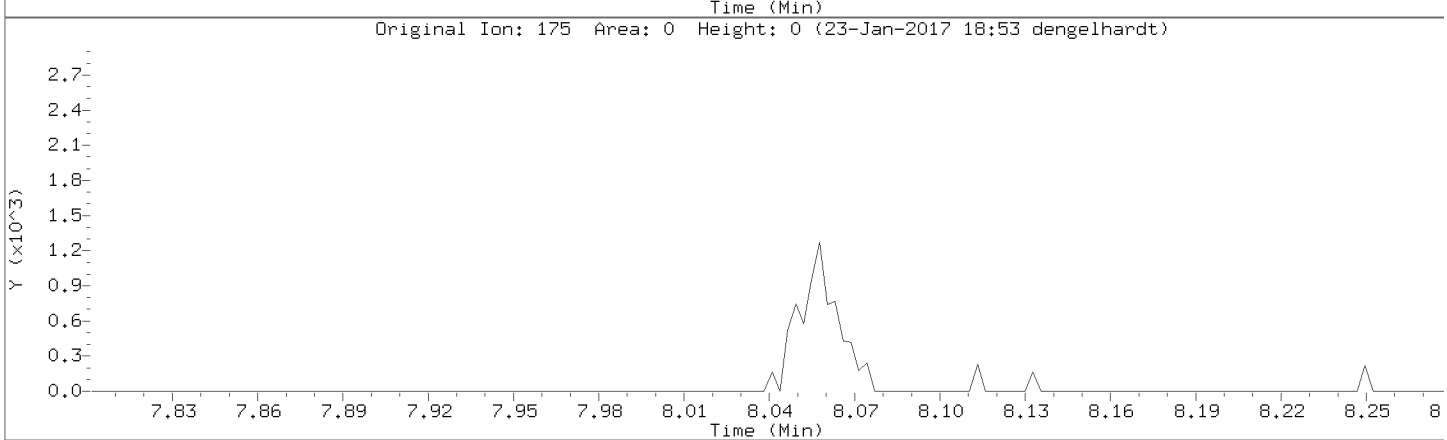
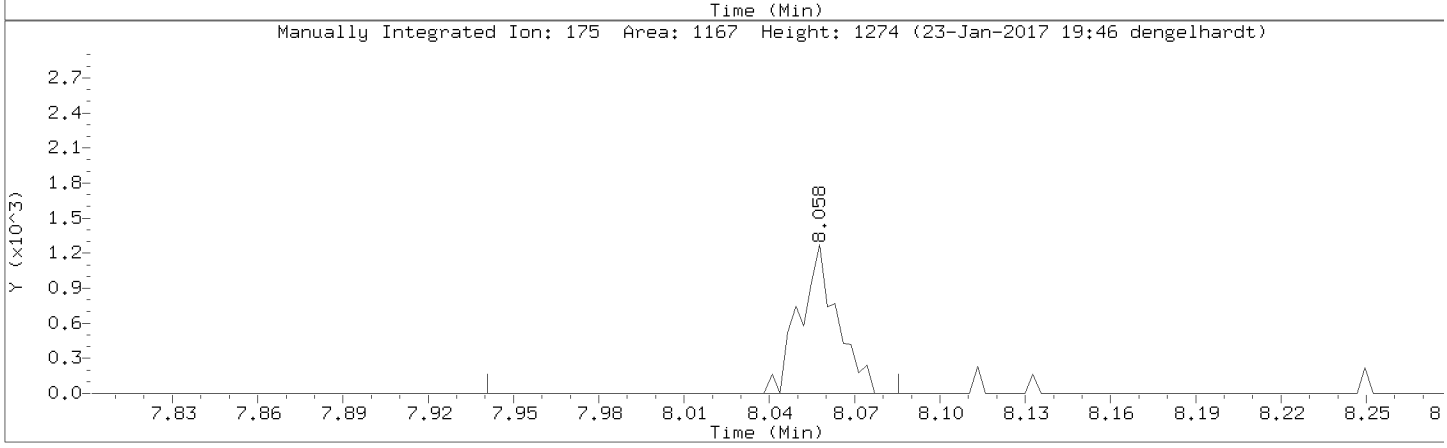
Lab Sample ID: 8260-CAL2

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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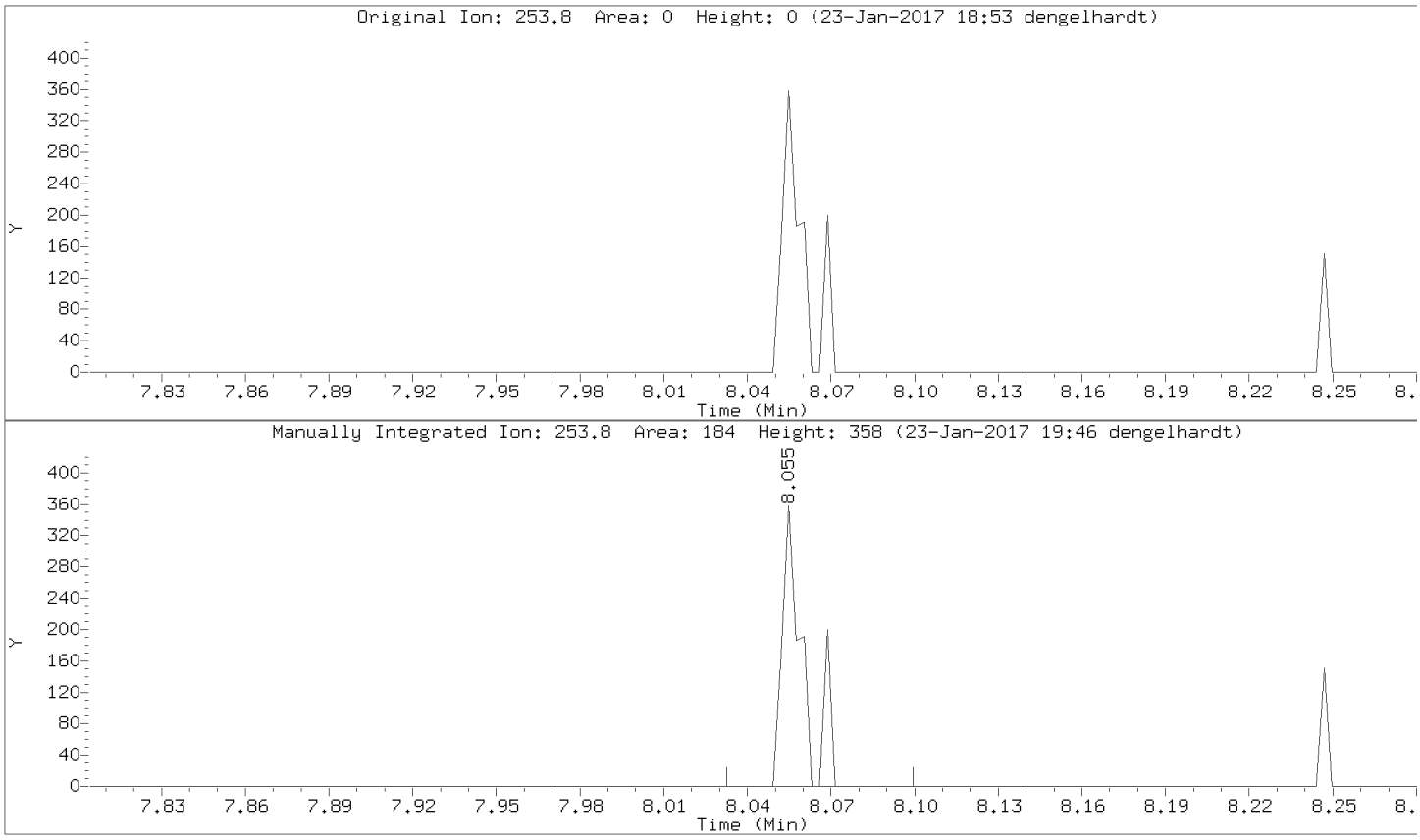
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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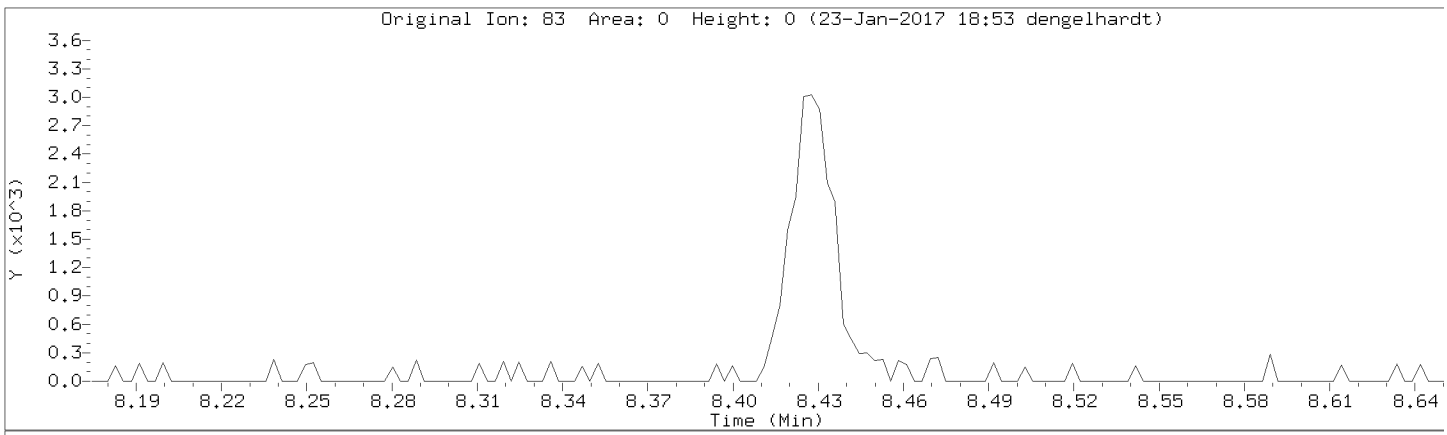
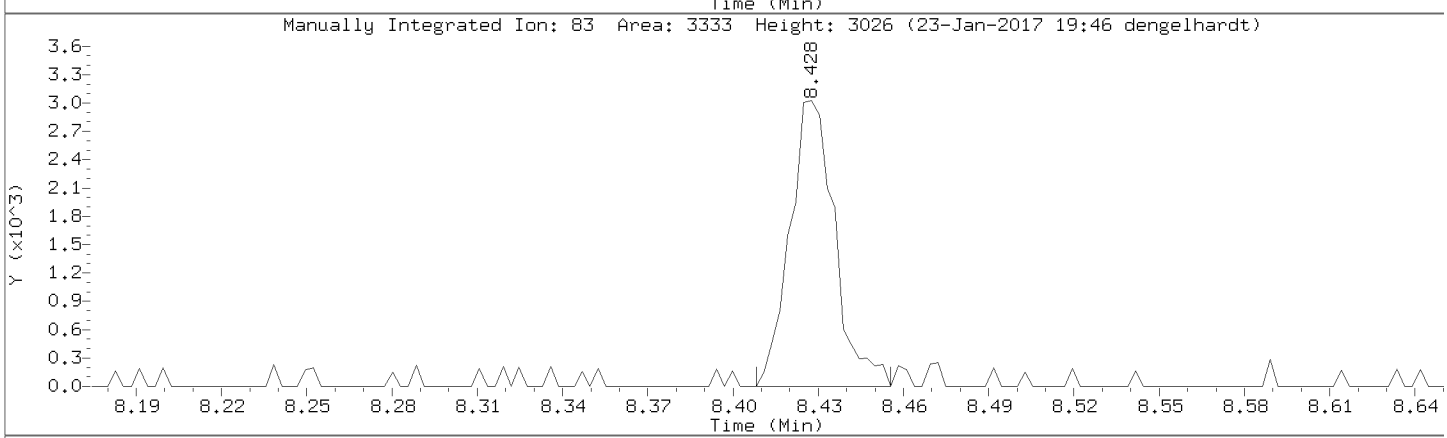
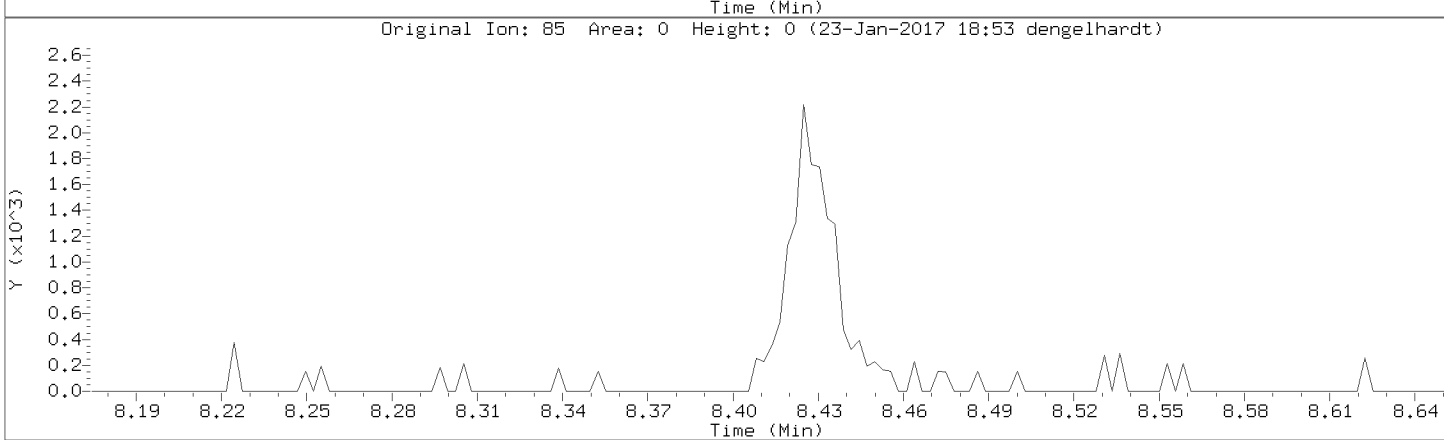
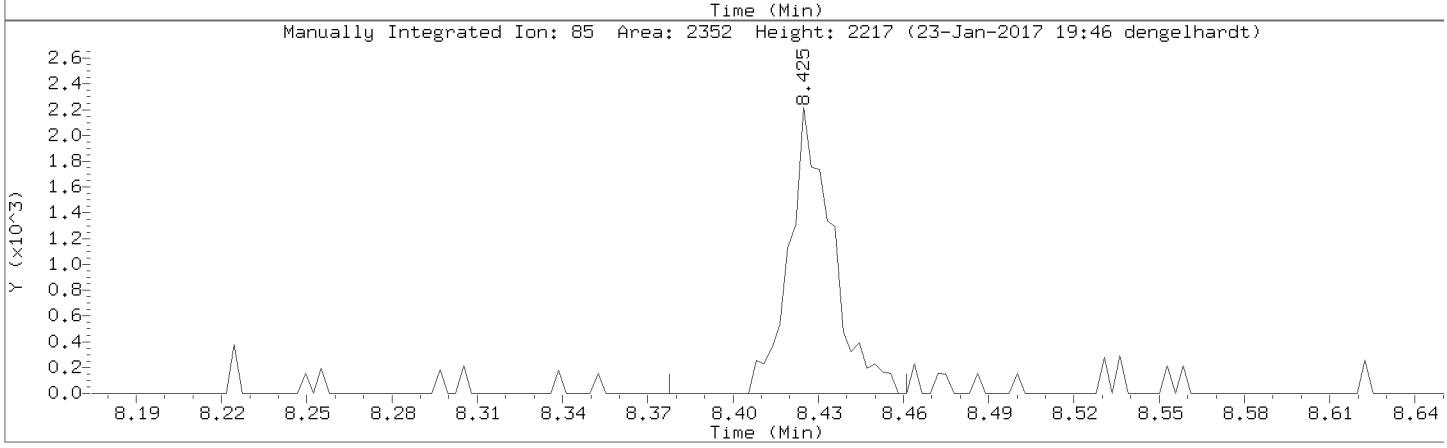
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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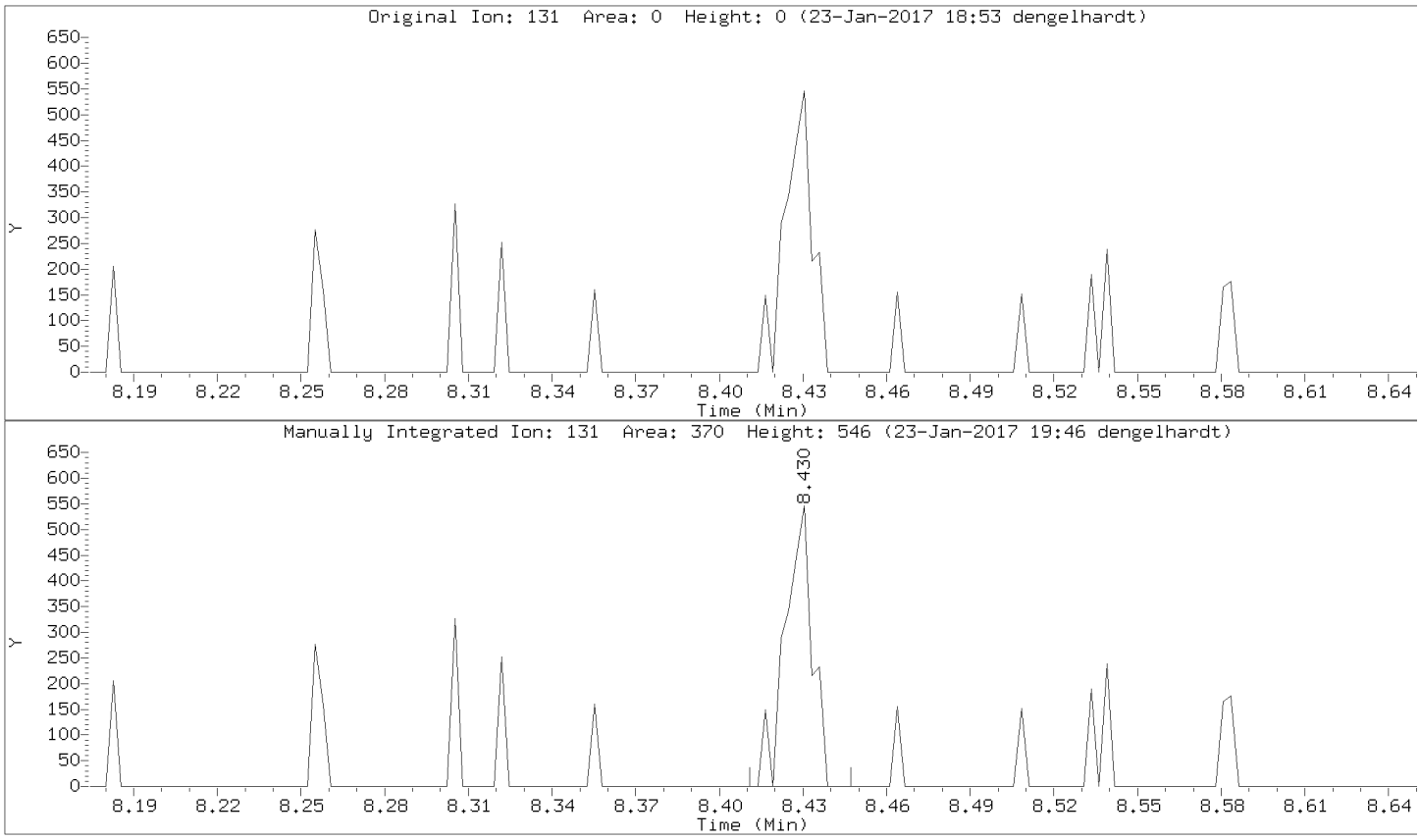
Lab Sample ID: 8260-CAL2



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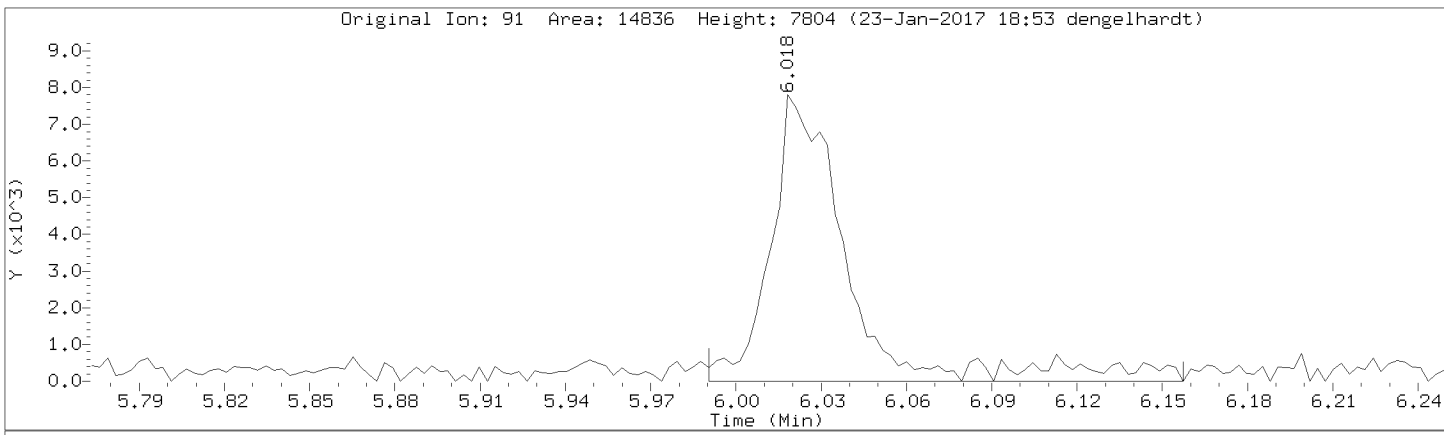
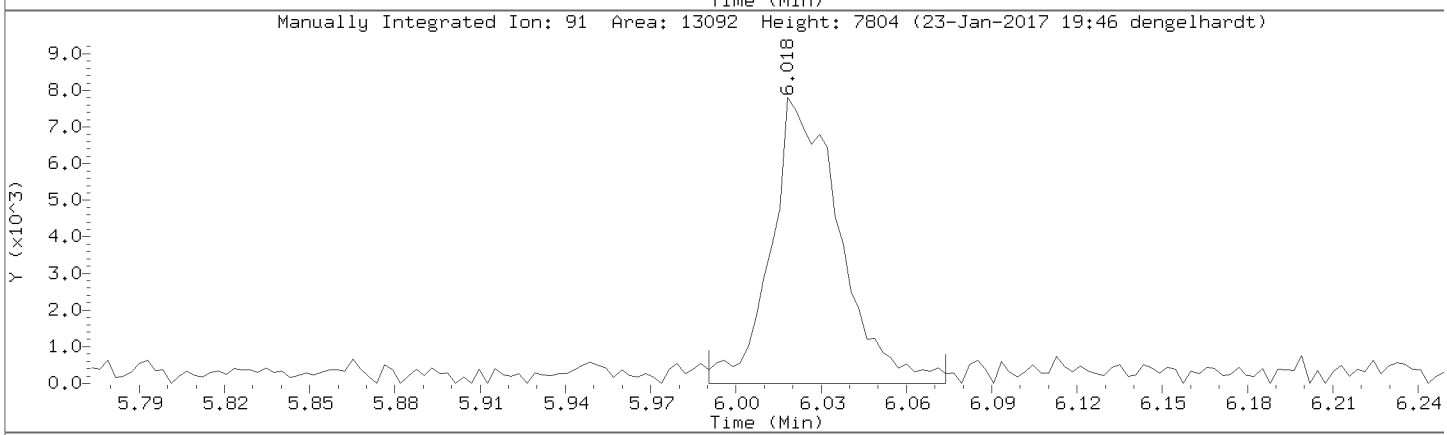
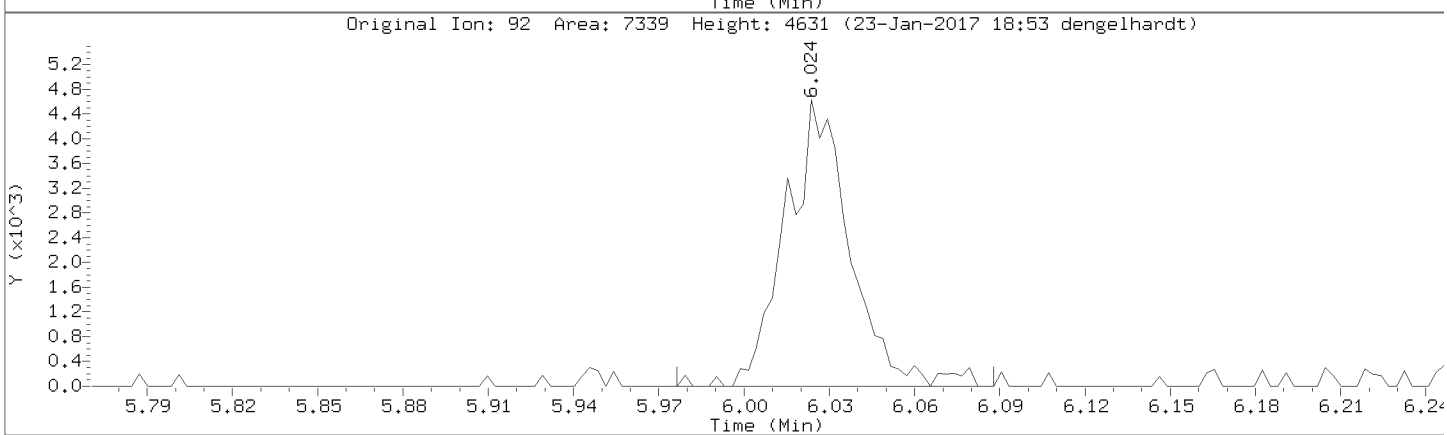
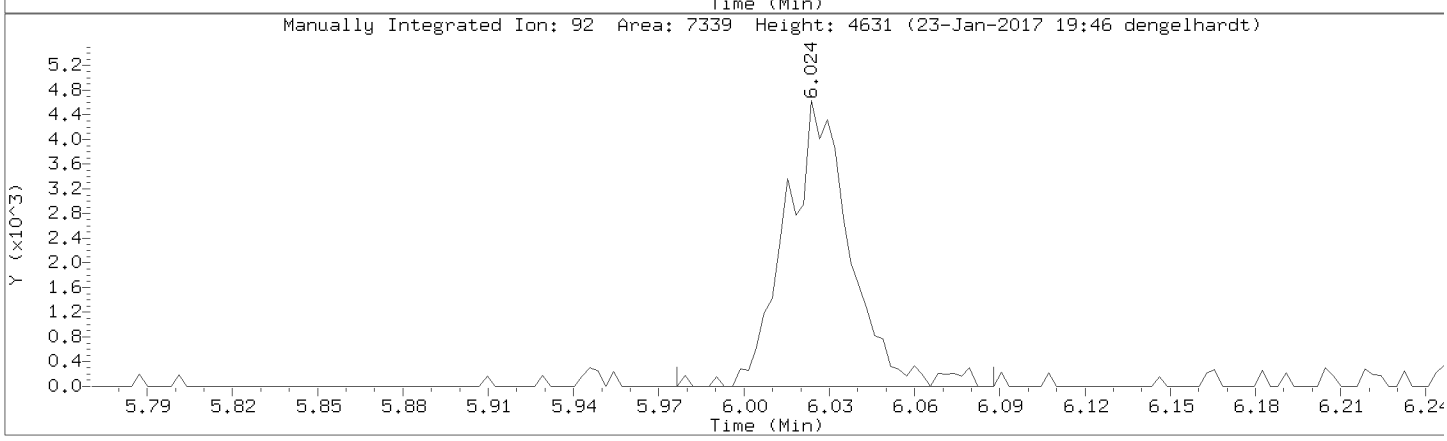
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Toluene Review Code:
CAS Number: 108-88-3









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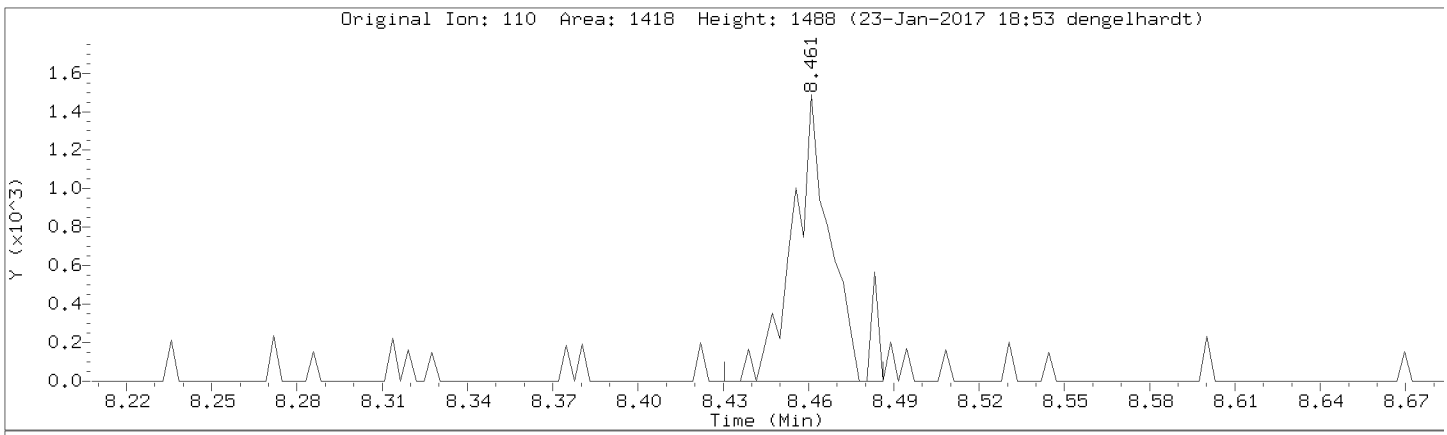
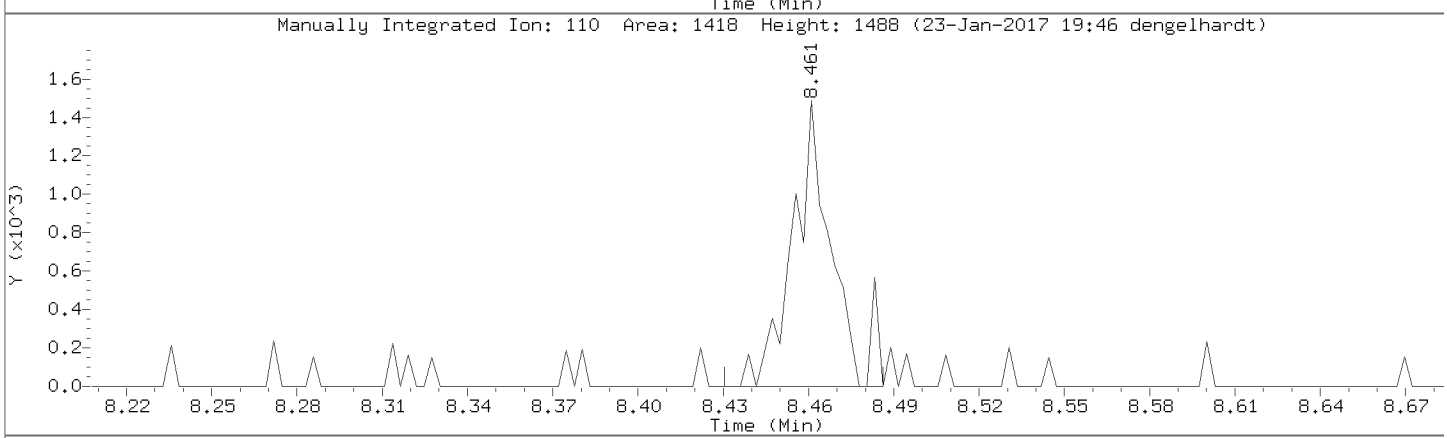
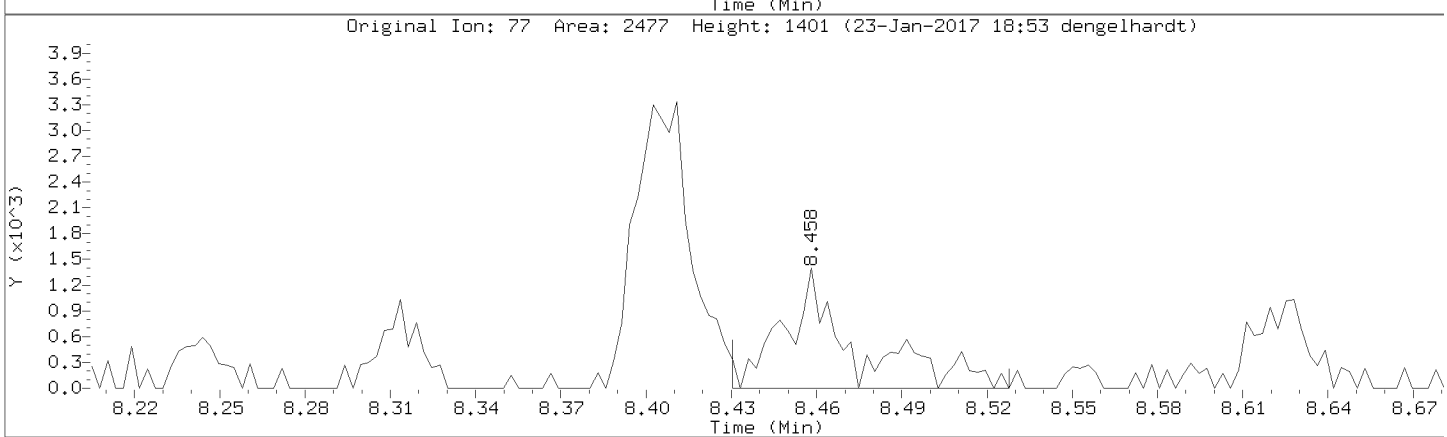
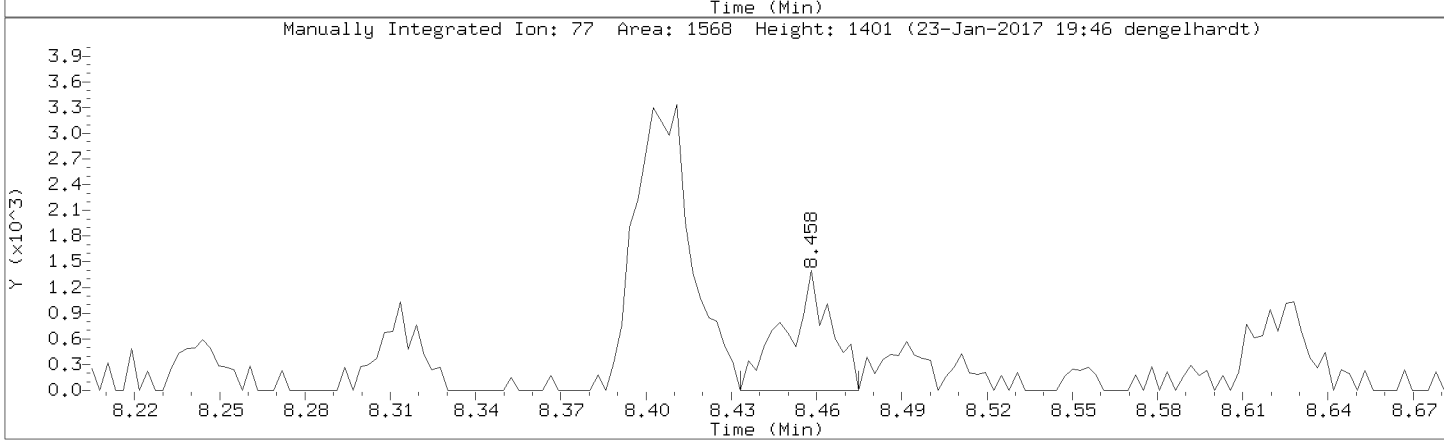
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trichloropropane Review Code: GT
CAS Number: 96-18-4









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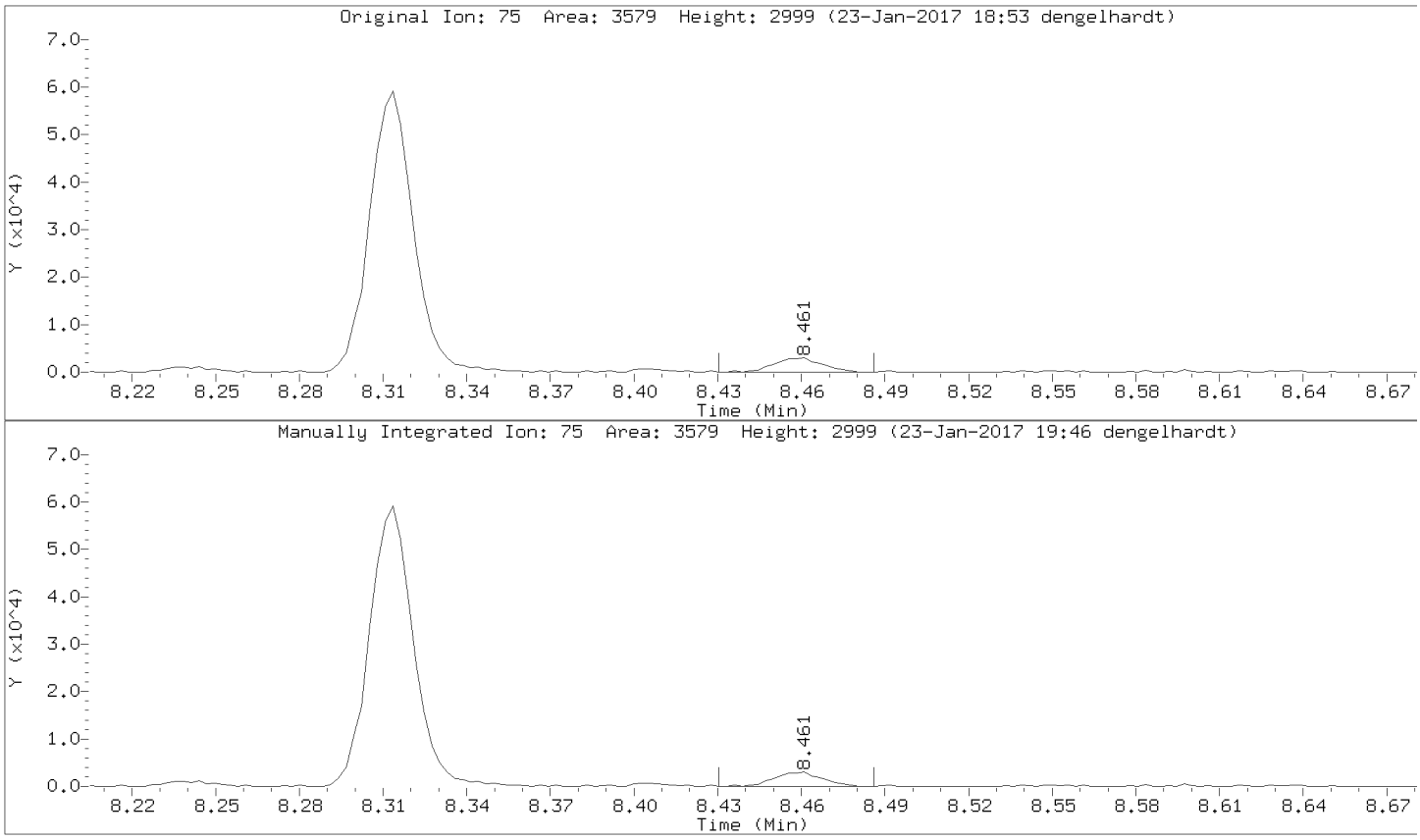
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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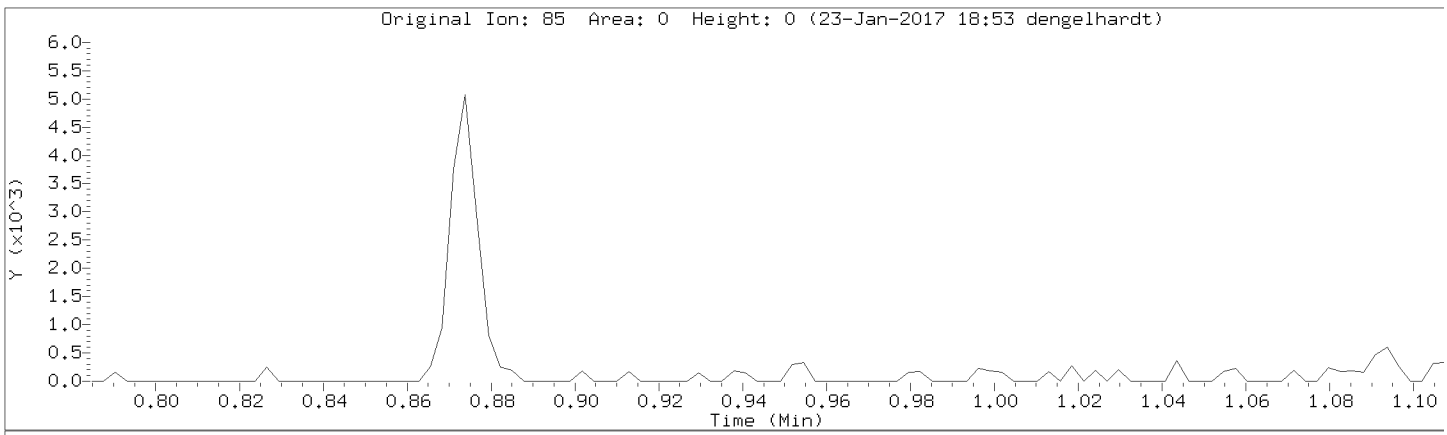
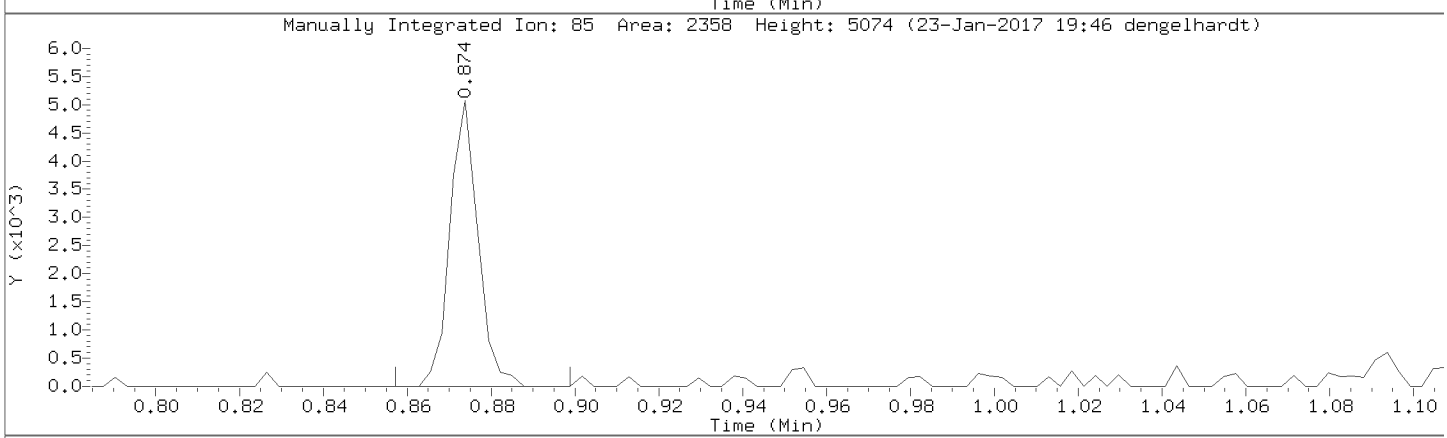
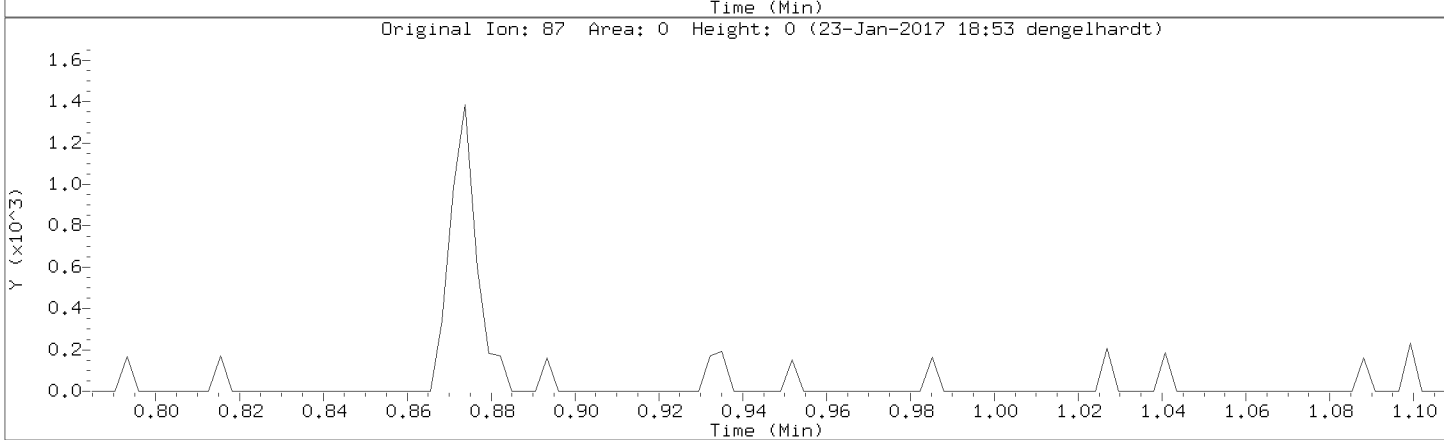
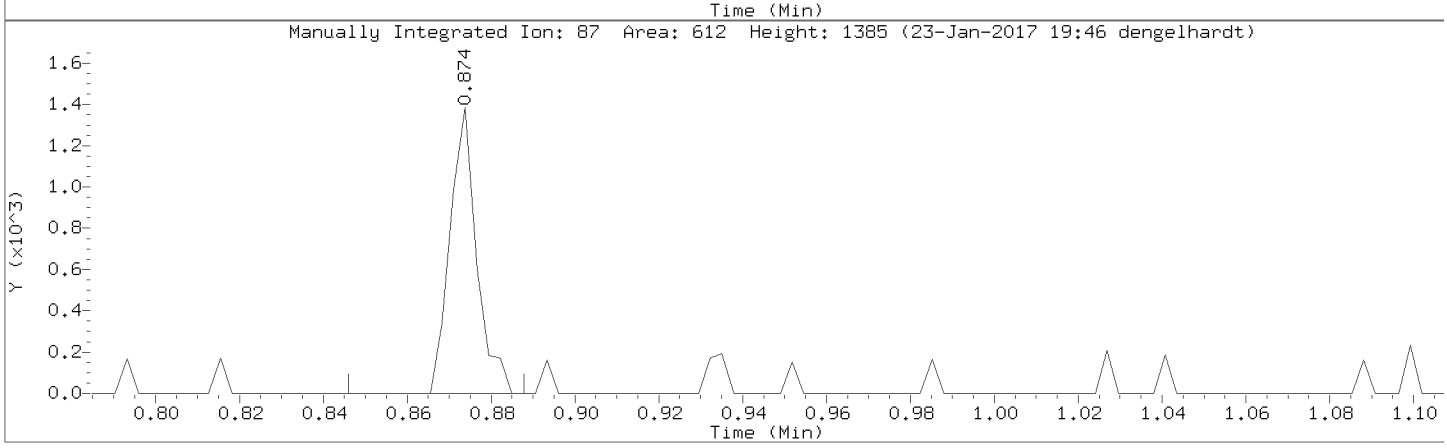
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8









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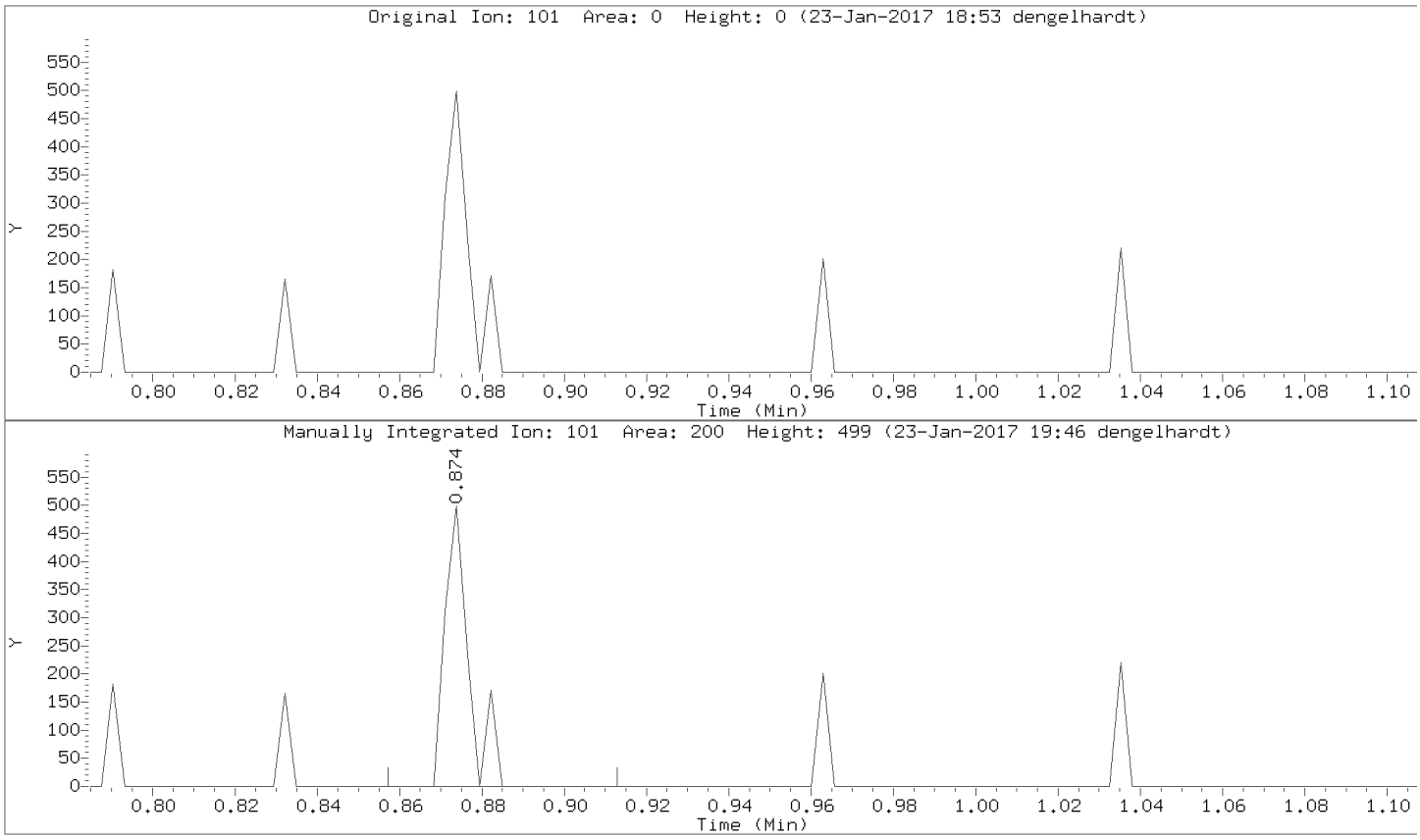
Lab Sample ID: 8260-CAL2



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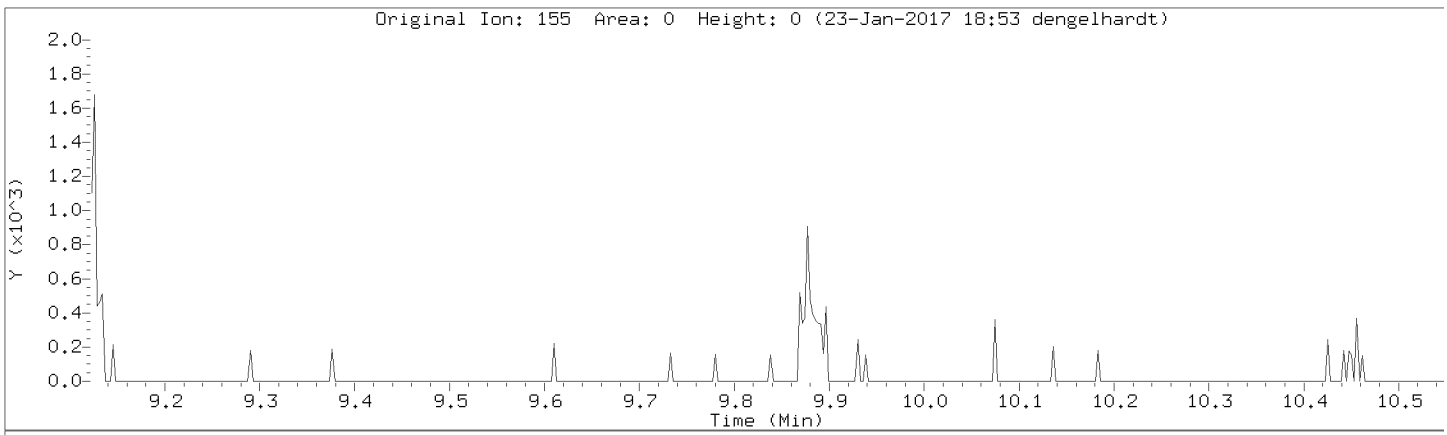
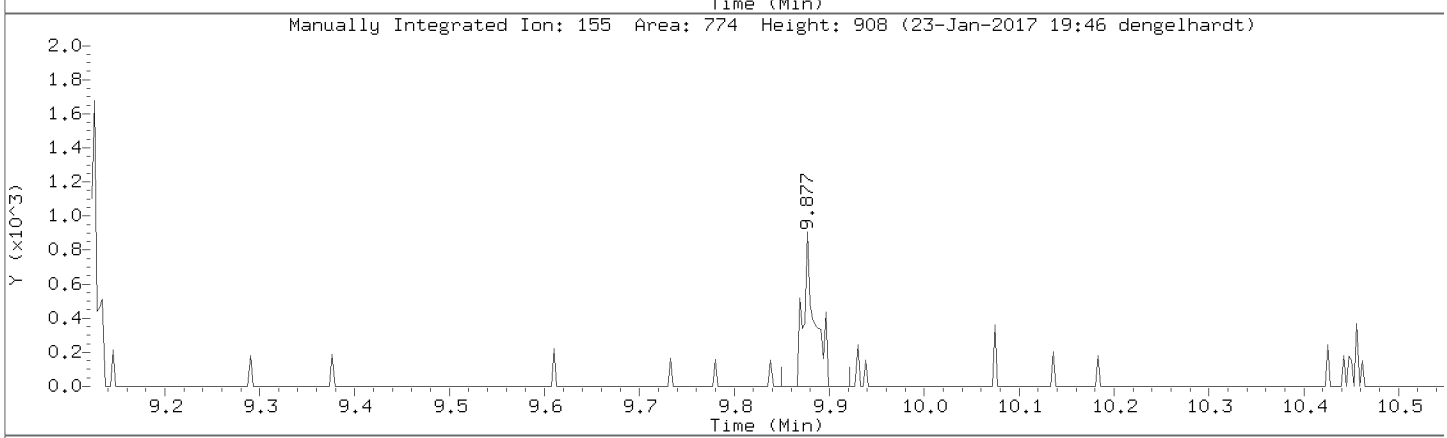
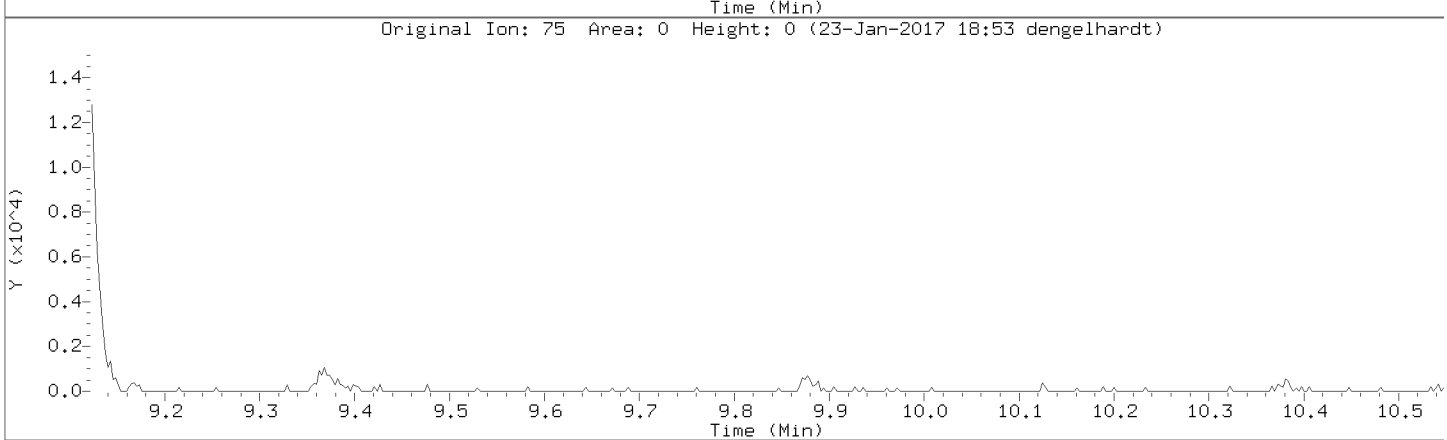
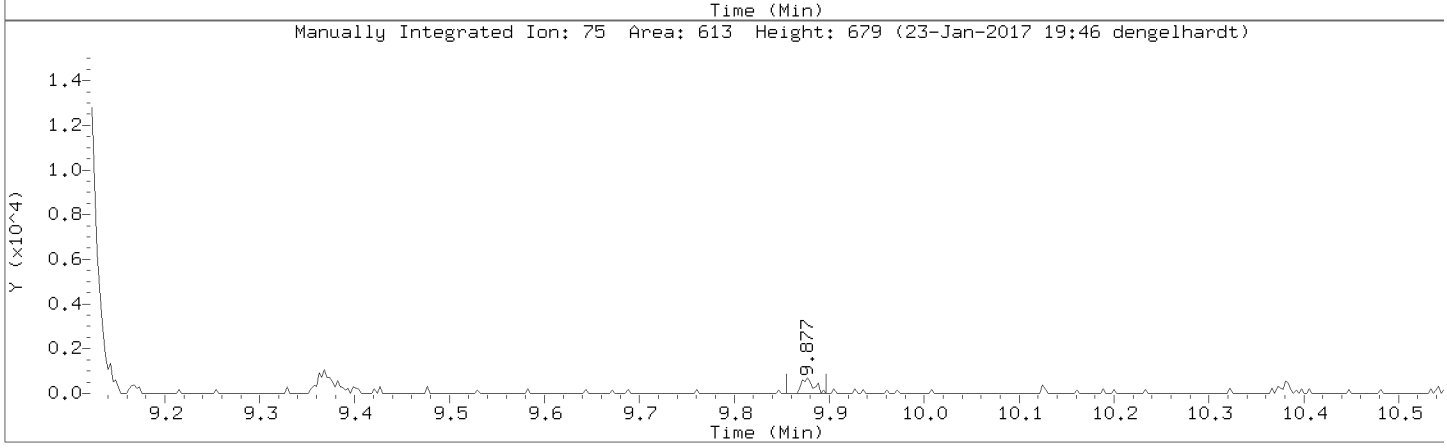
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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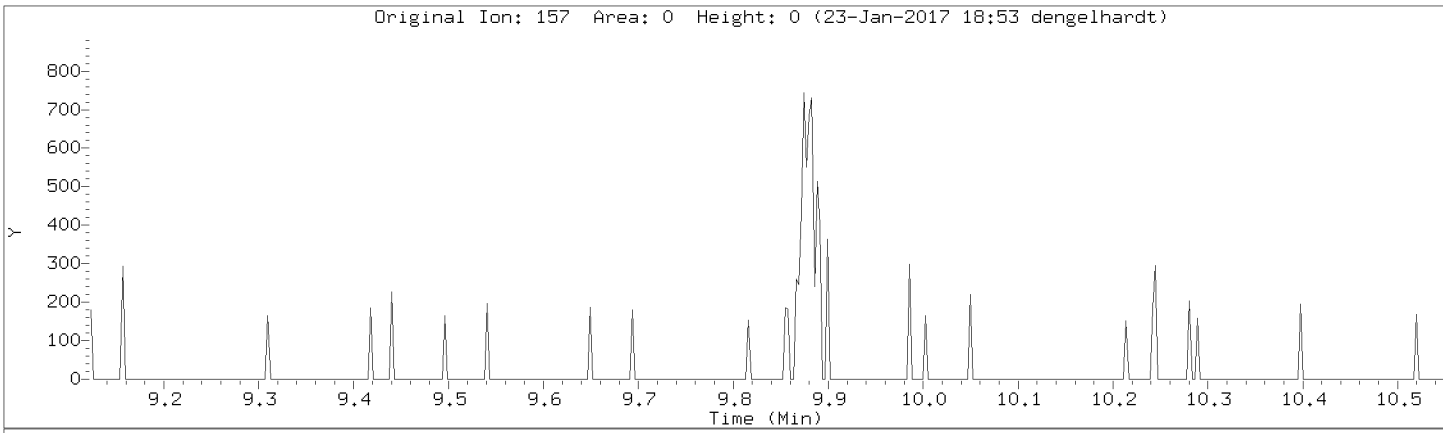
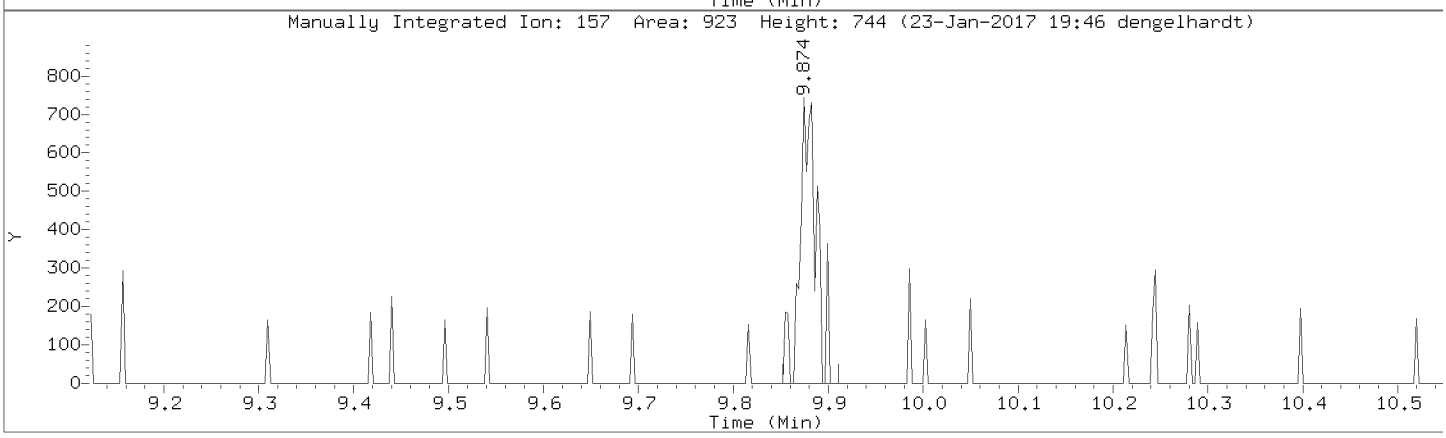
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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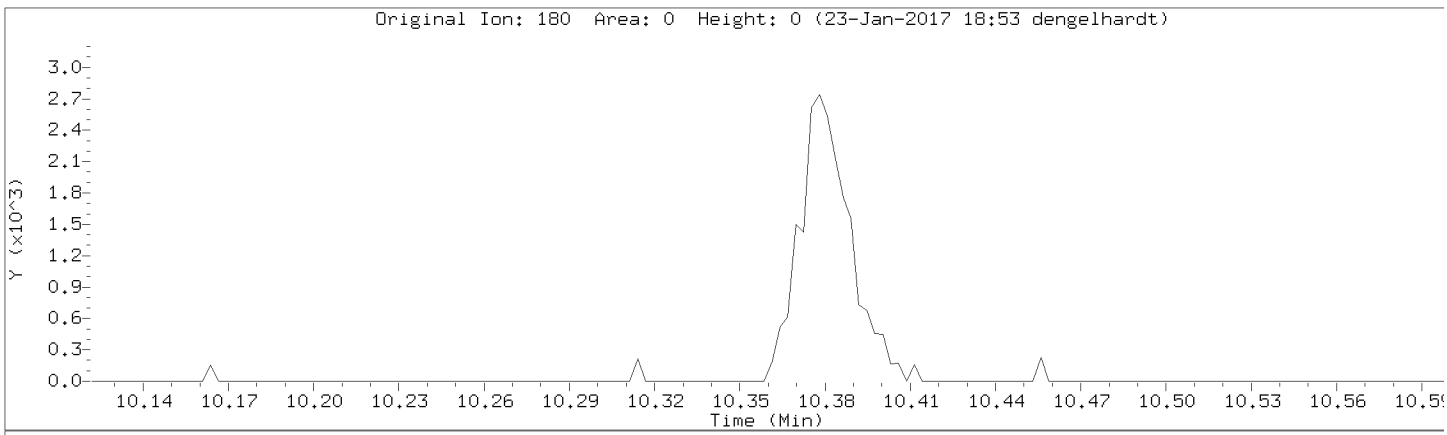
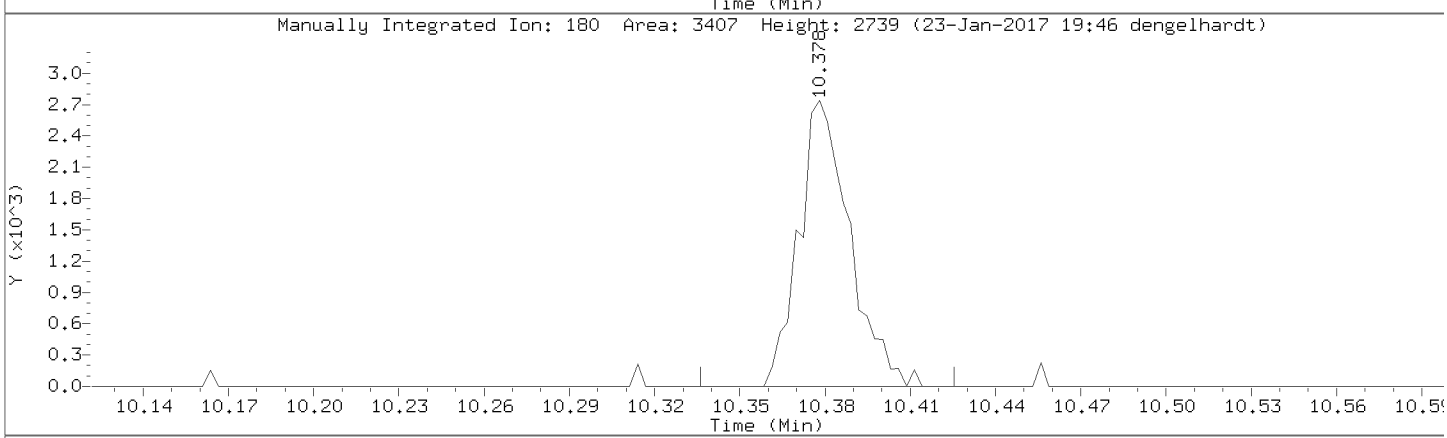
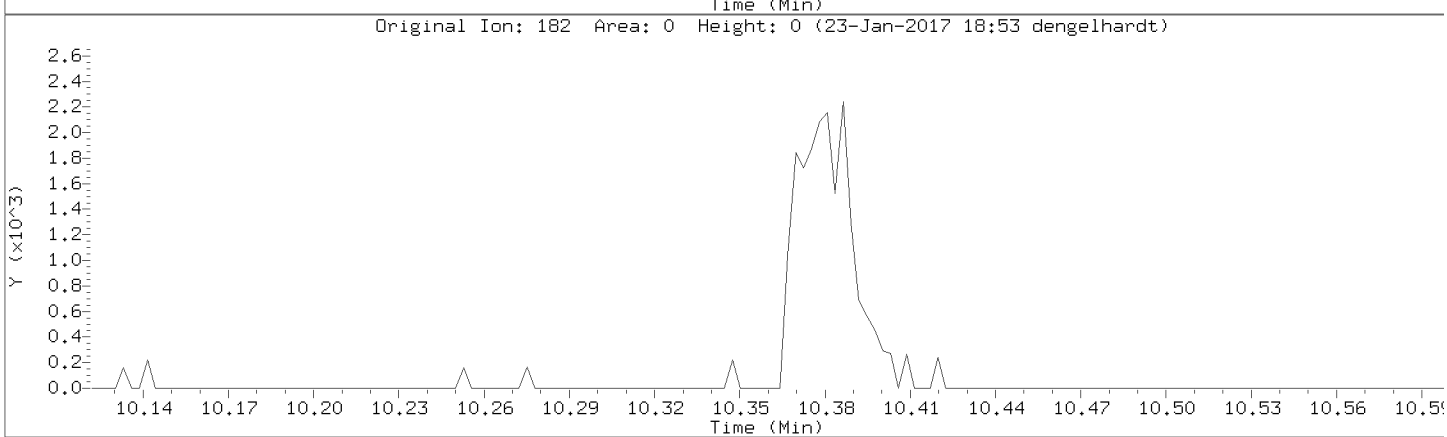
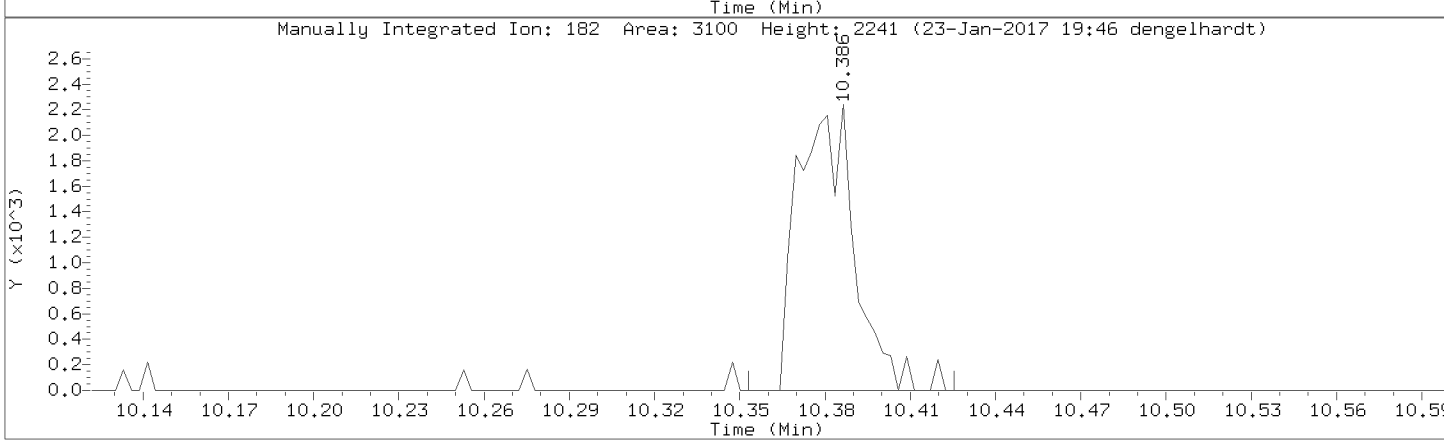
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1









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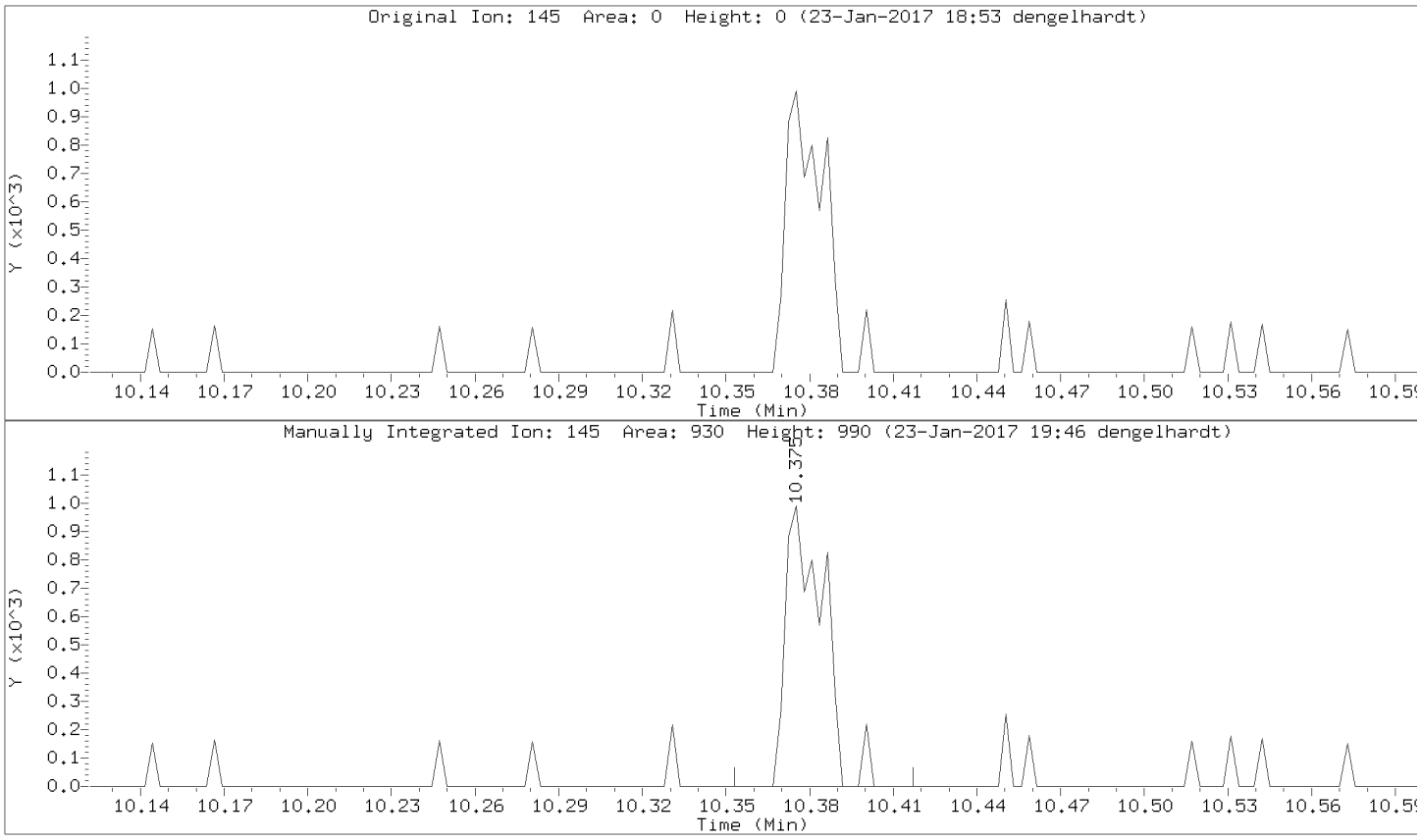
Lab Sample ID: 8260-CAL2



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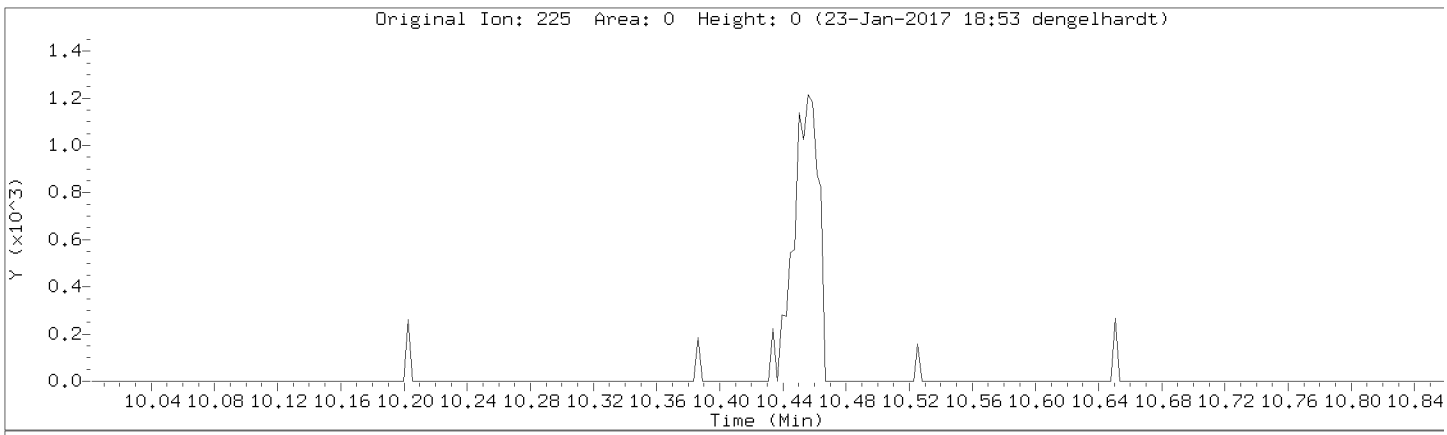
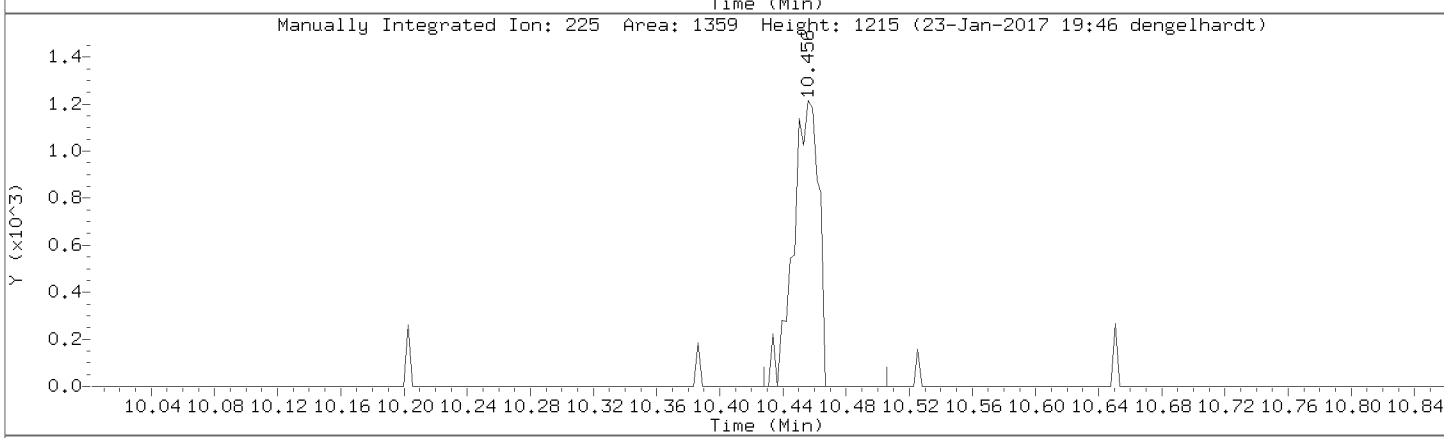
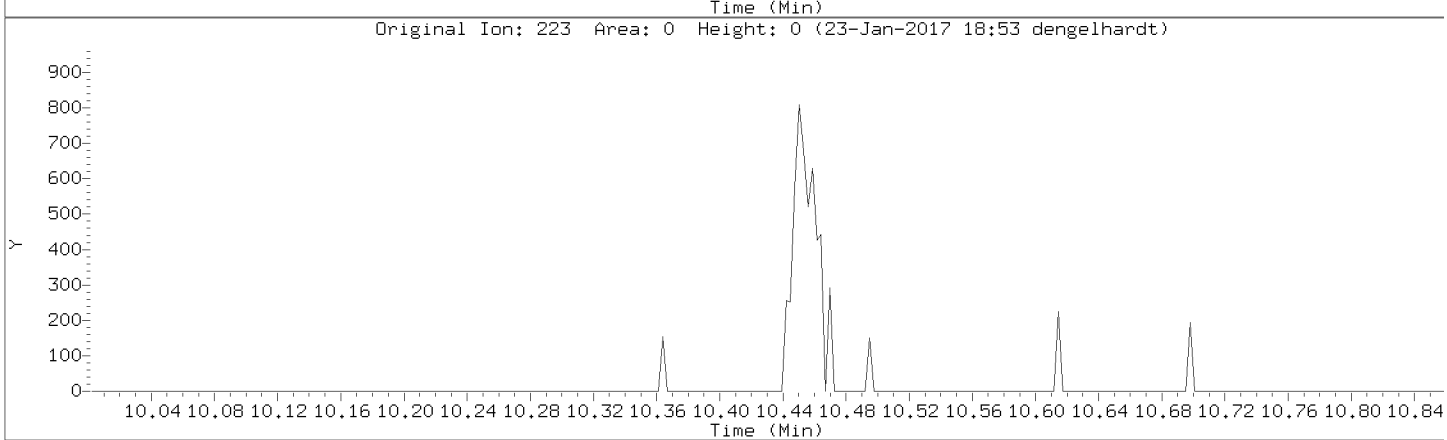
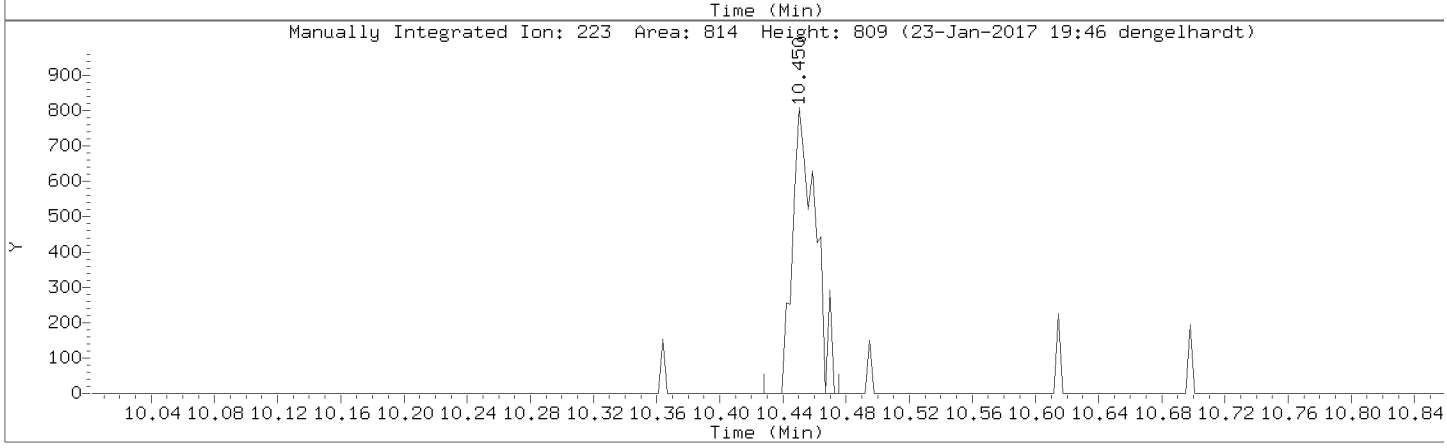
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3









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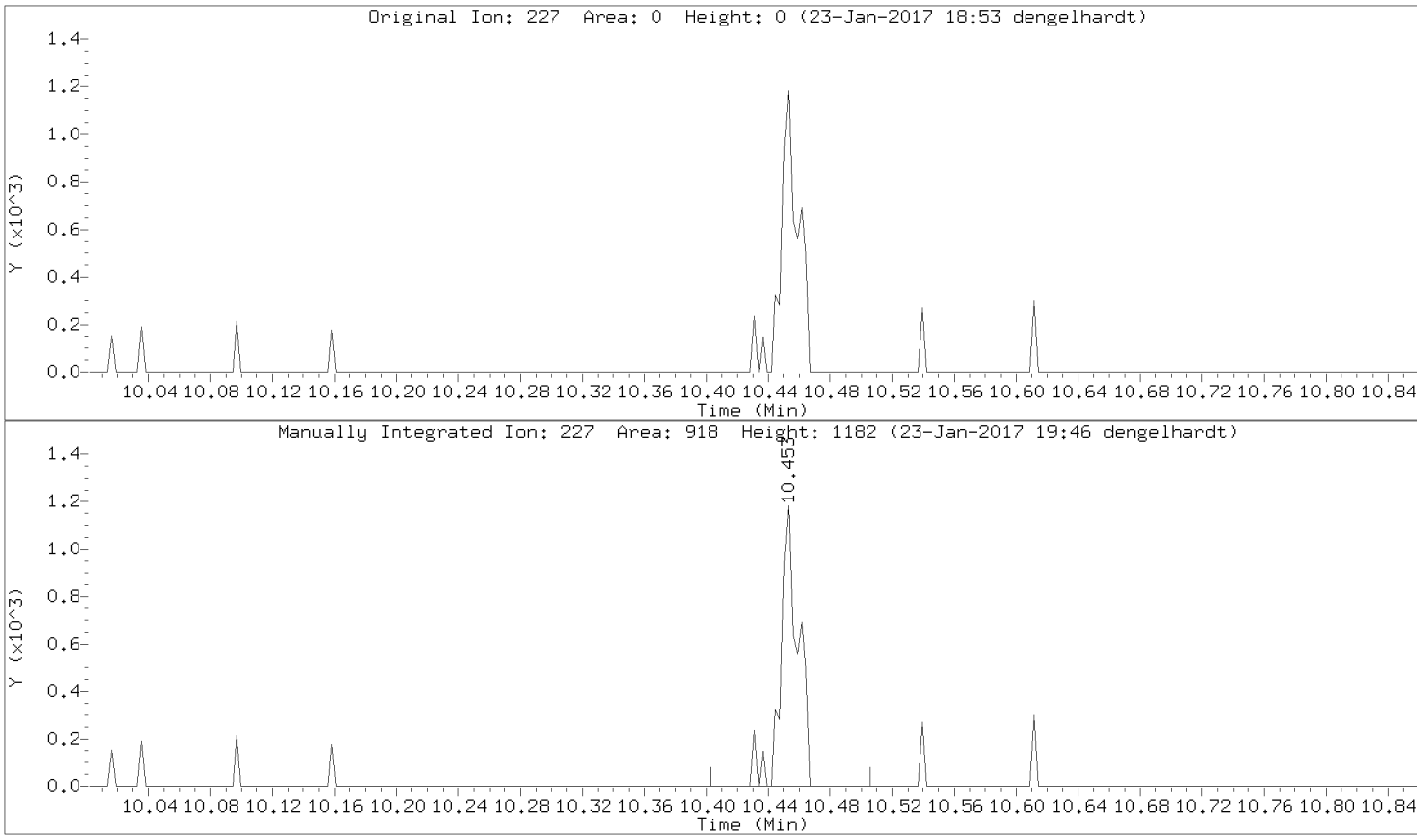
Lab Sample ID: 8260-CAL2



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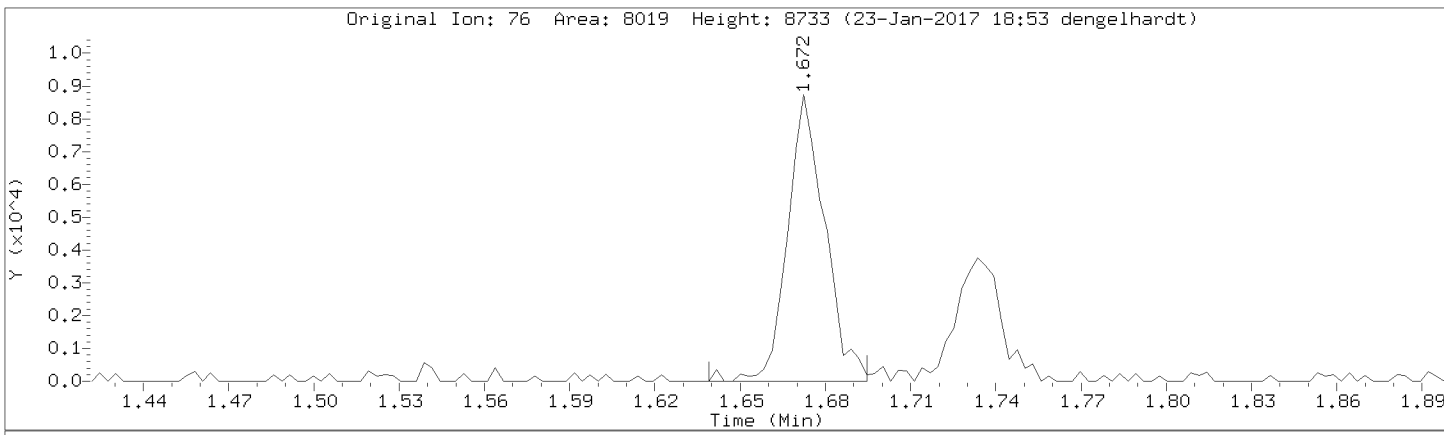
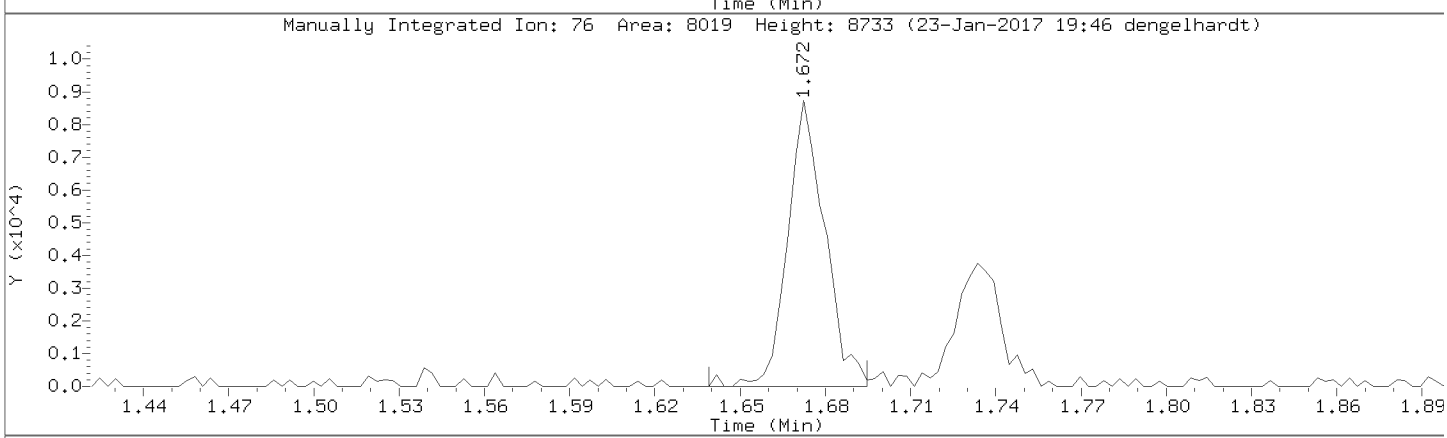
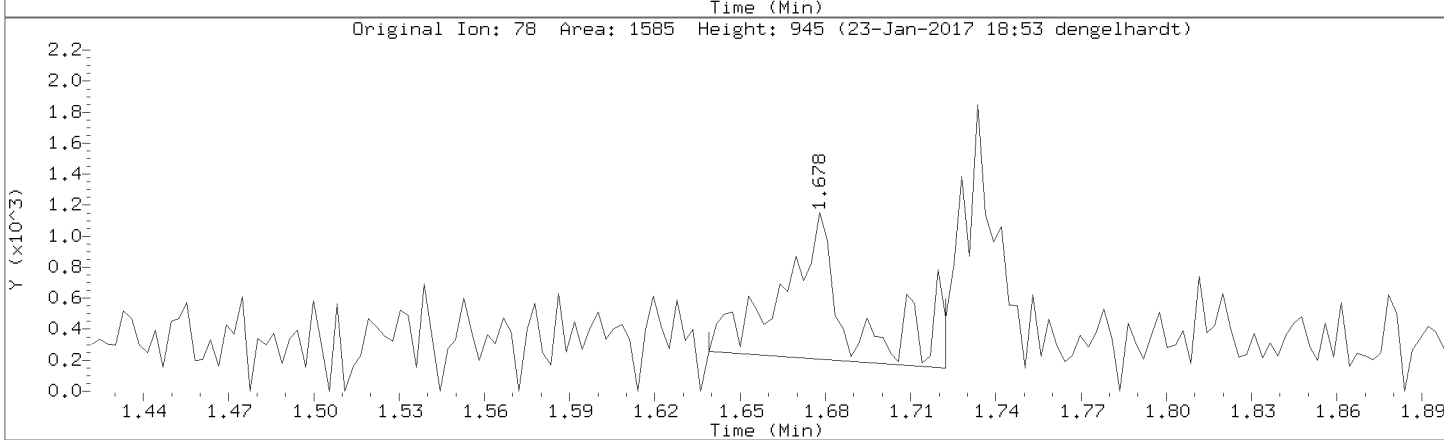
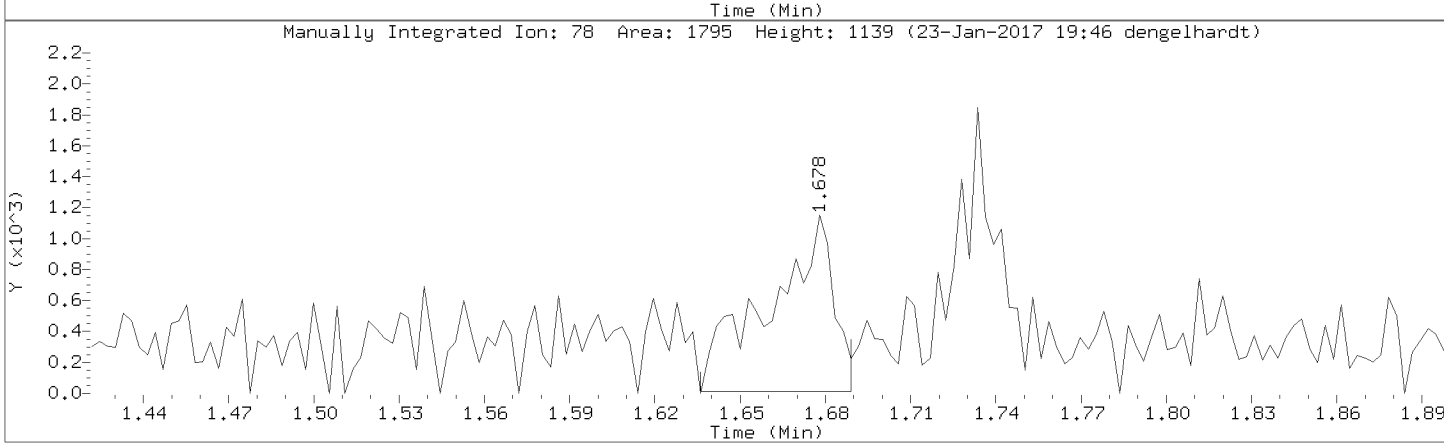
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Disulfide Review Code: LT
CAS Number: 75-15-0









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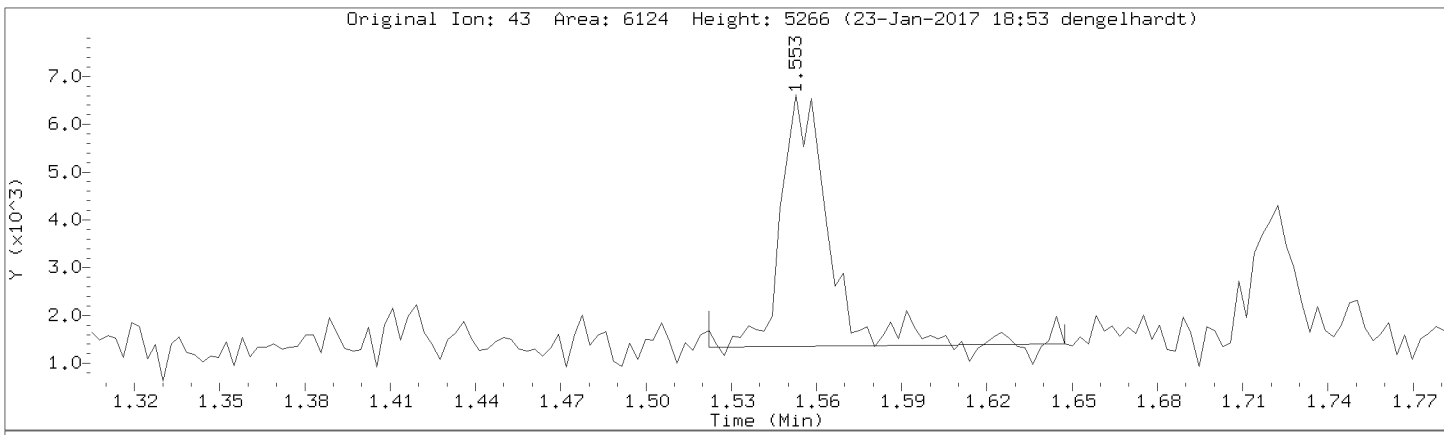
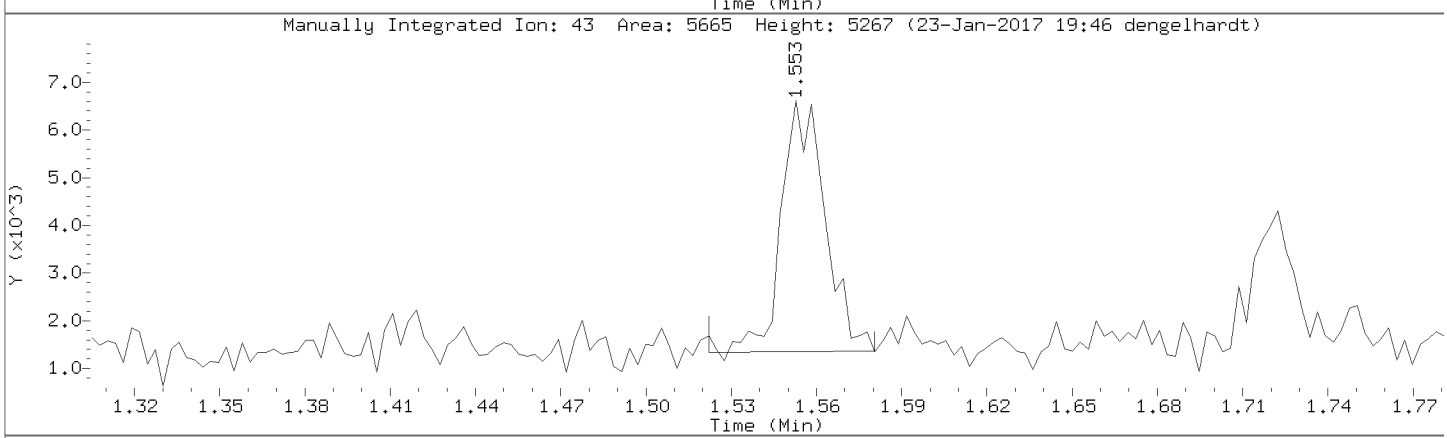
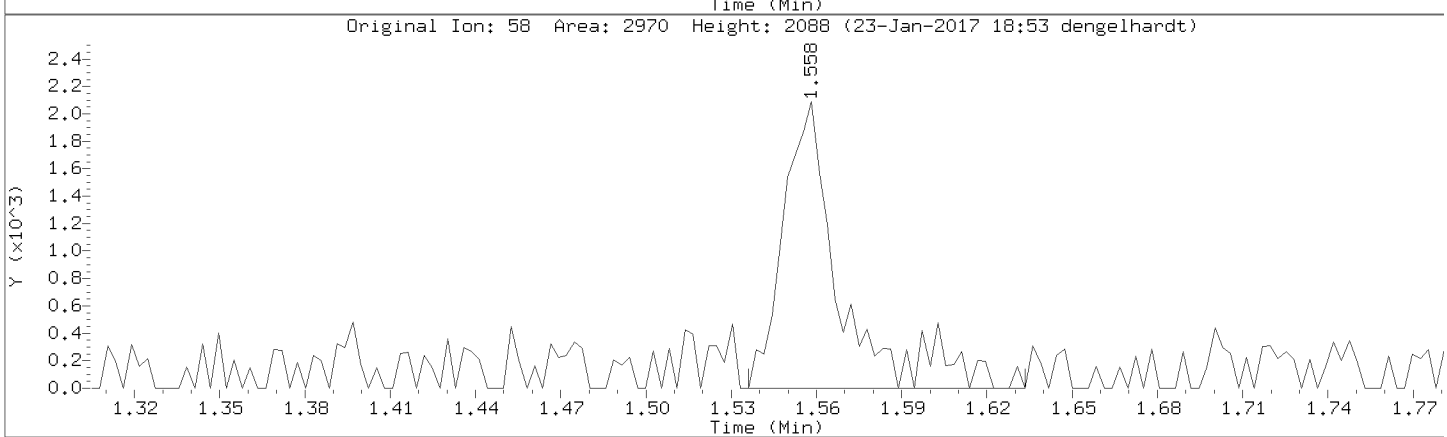
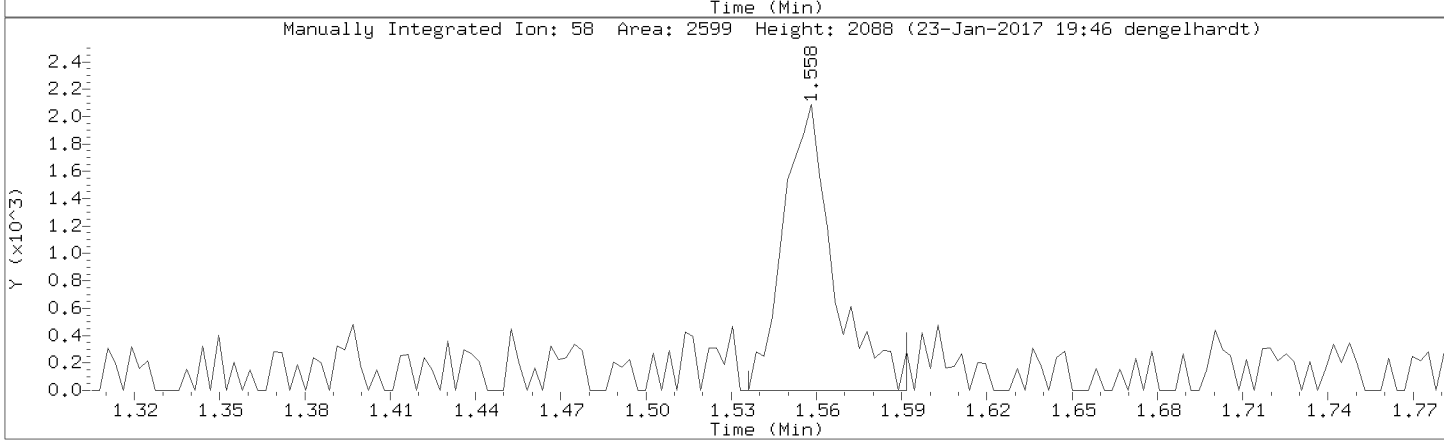
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Acetone Review Code: WP
CAS Number: 67-64-1









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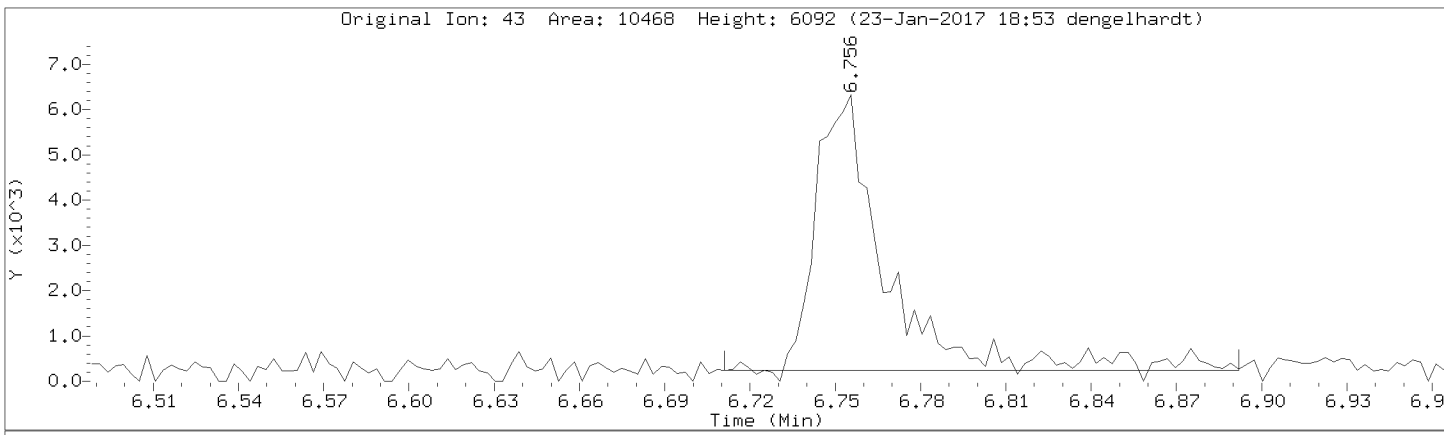
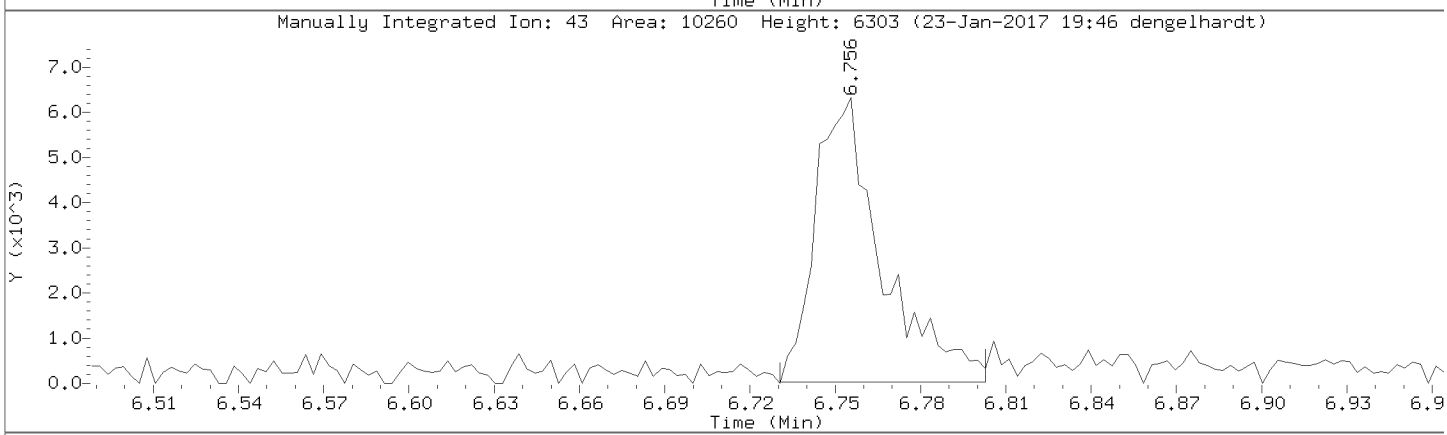
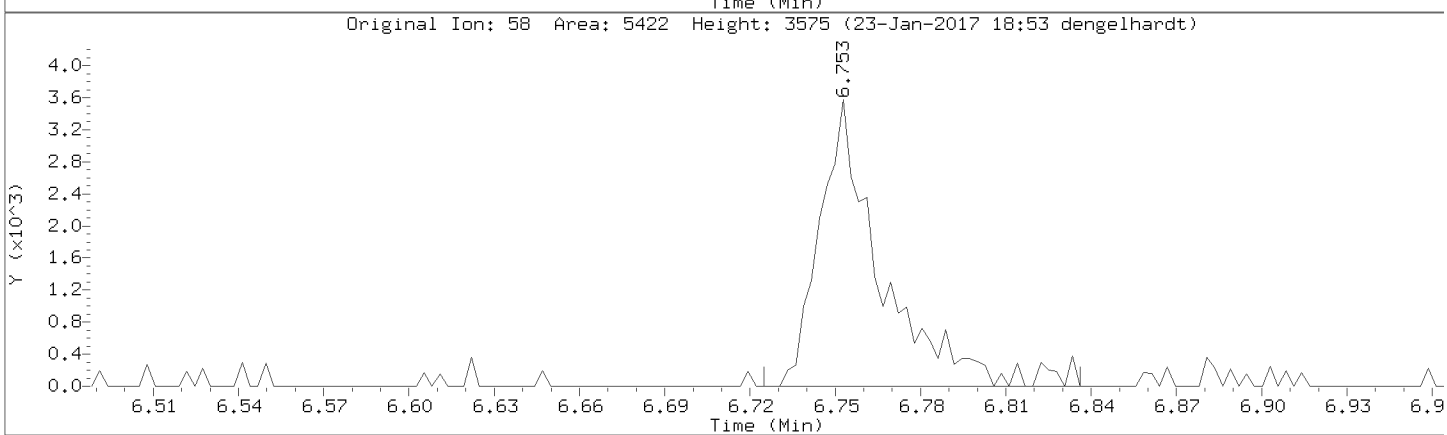
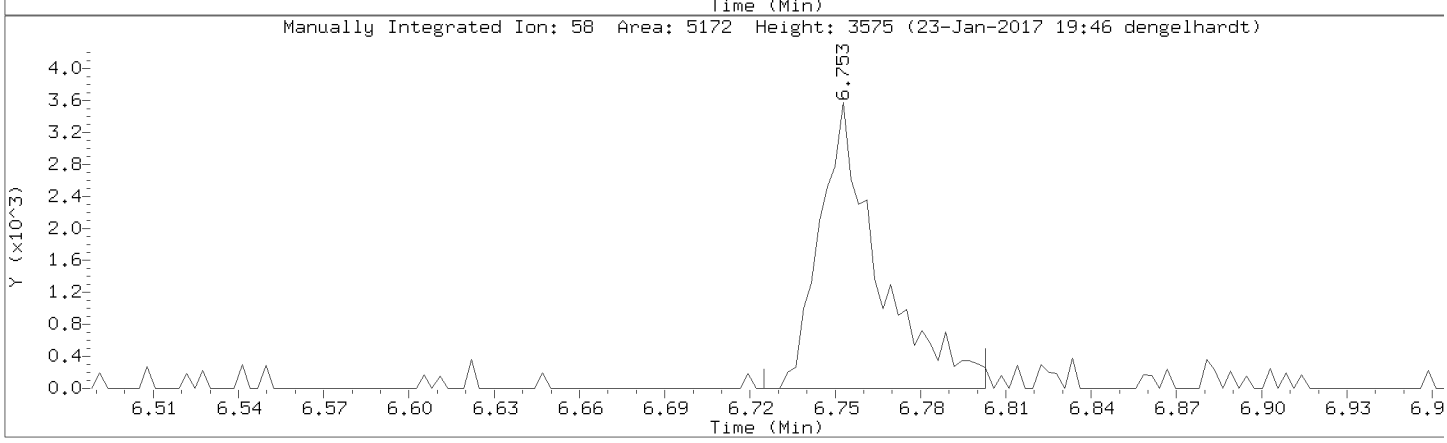
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 2-Hexanone Review Code: WP
CAS Number: 591-78-6









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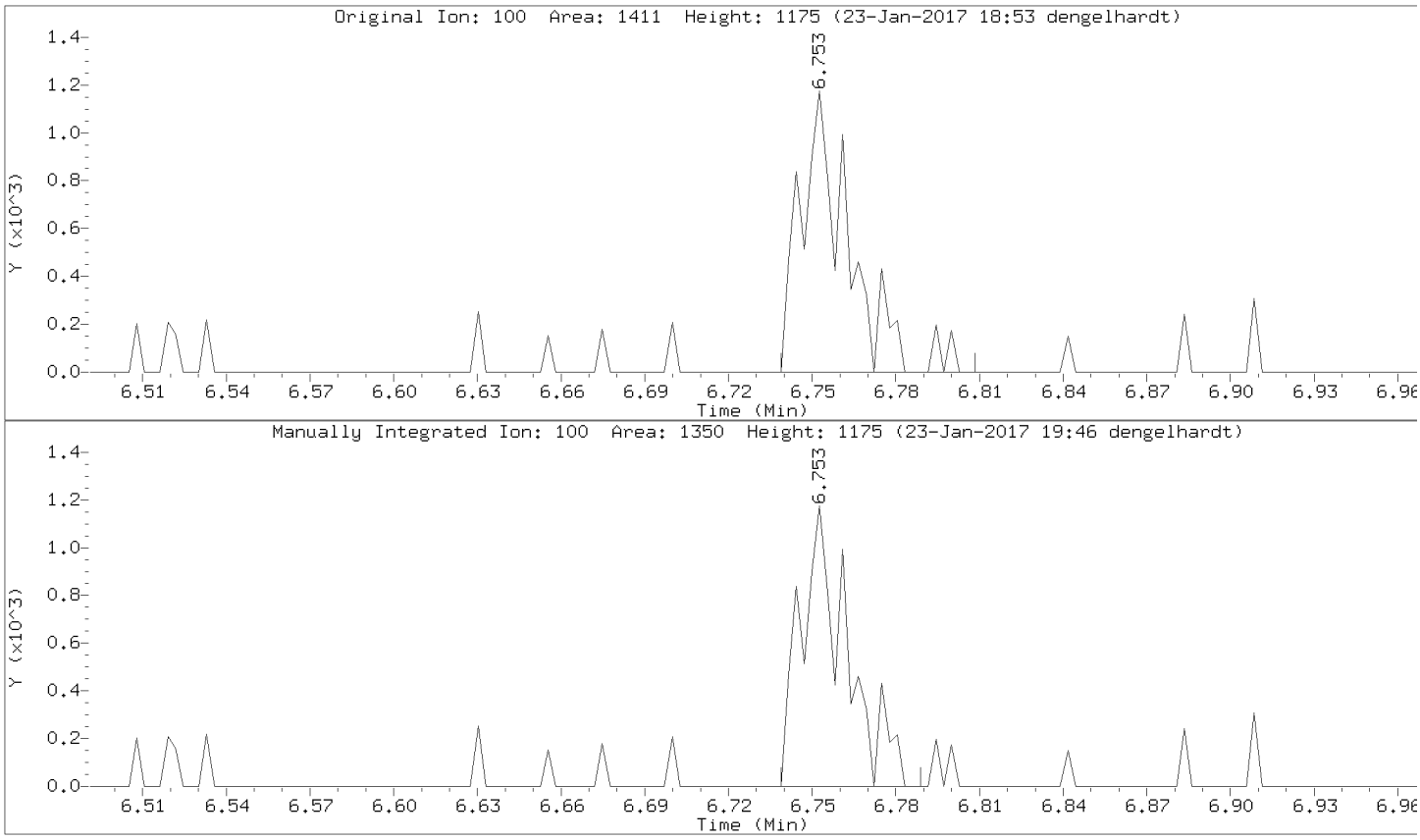
Lab Sample ID: 8260-CAL2



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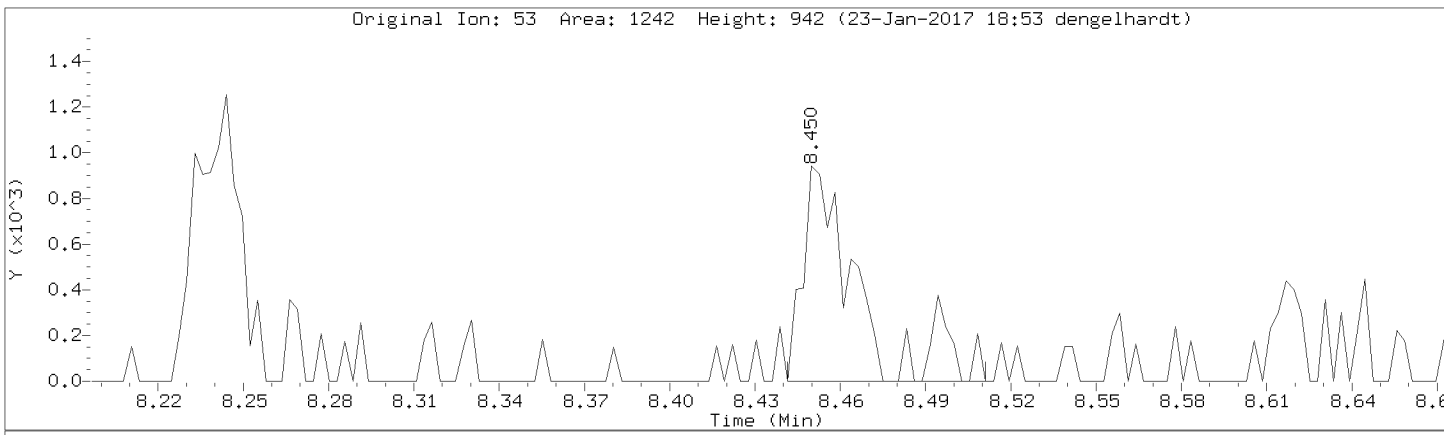
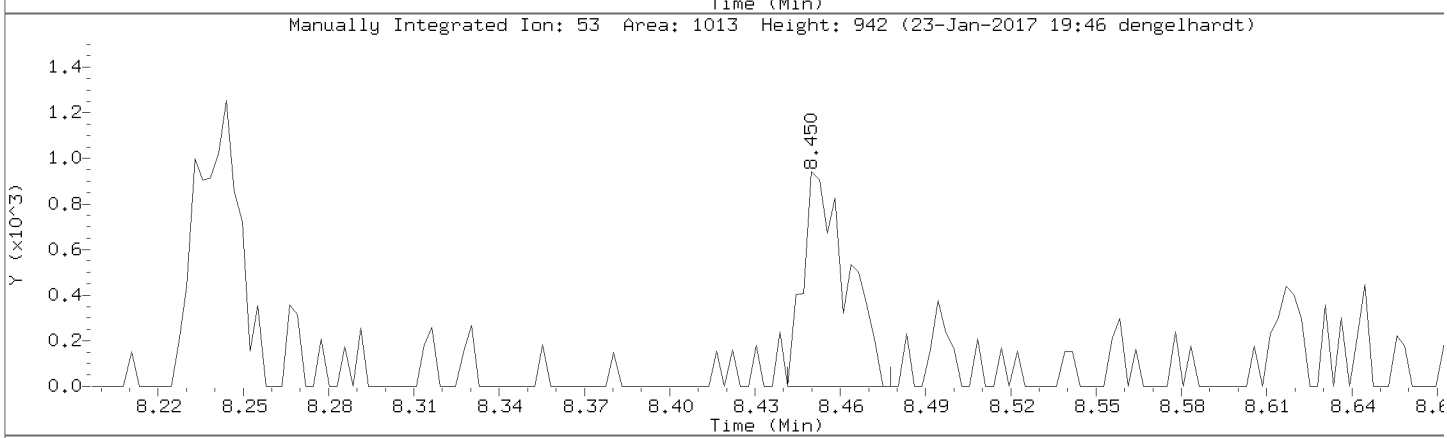
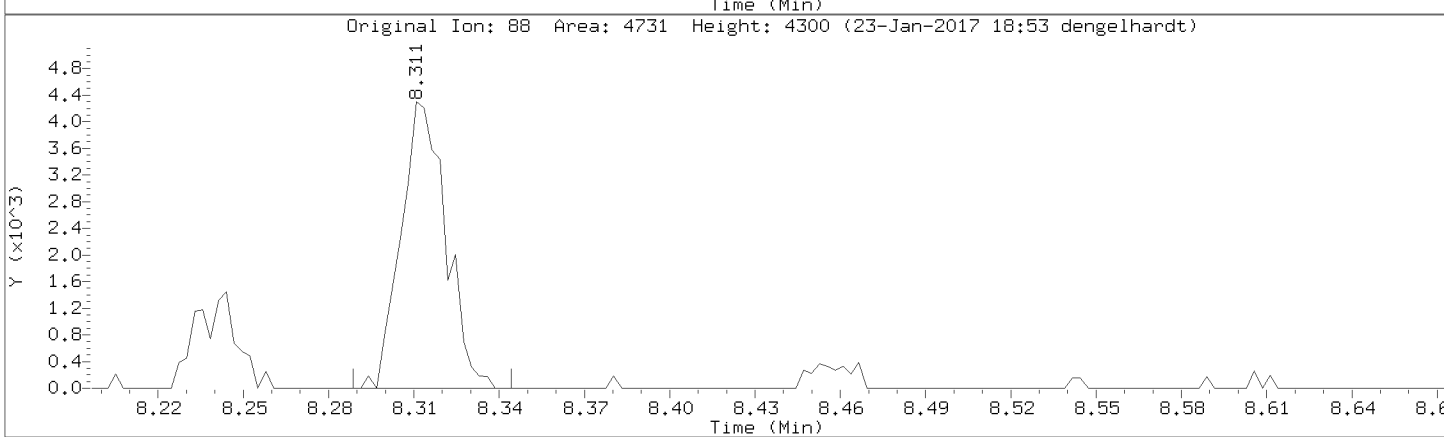
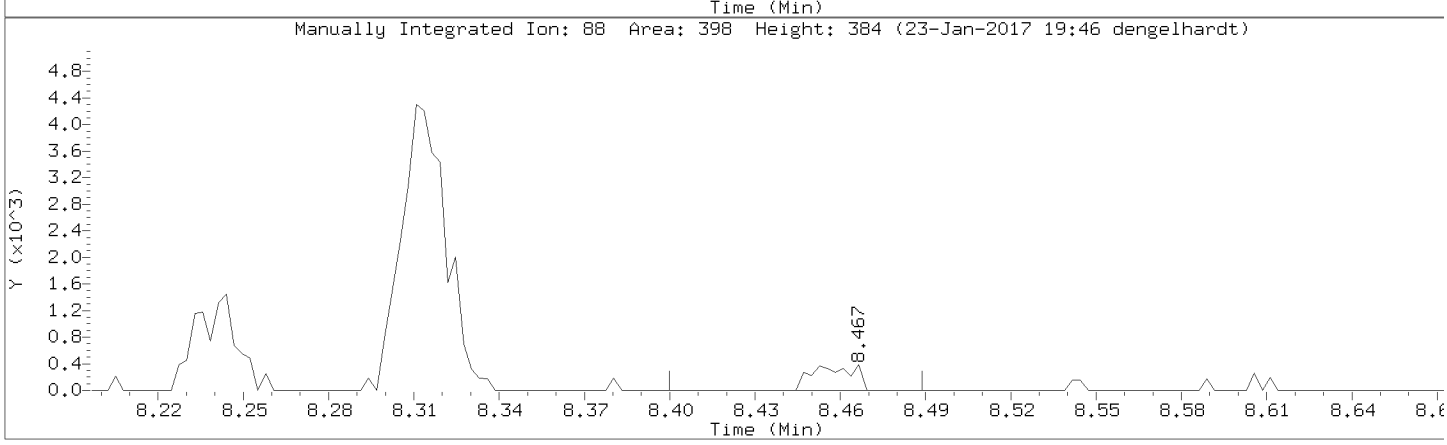
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:









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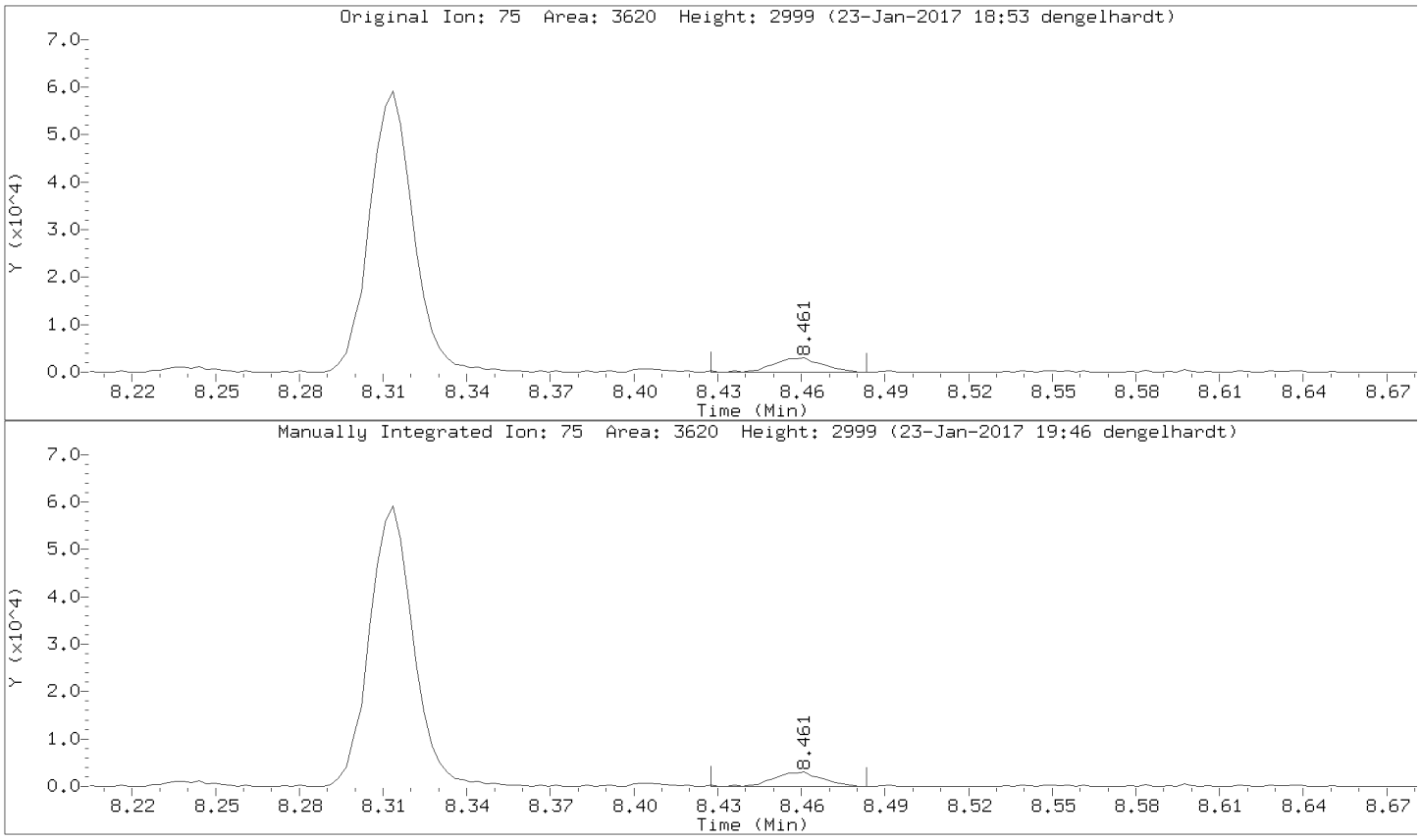
Lab Sample ID: 8260-CAL2



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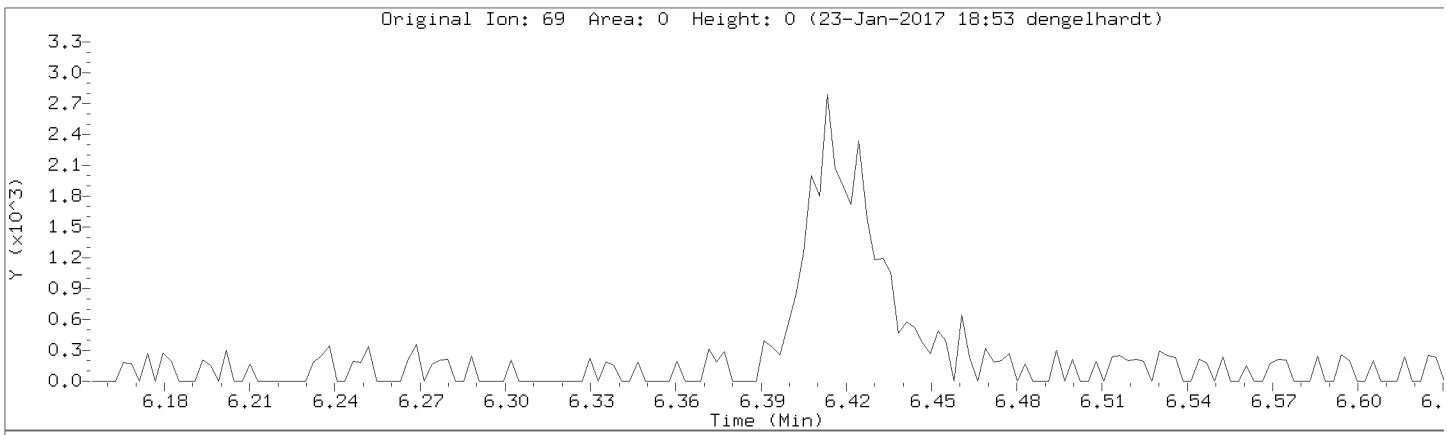
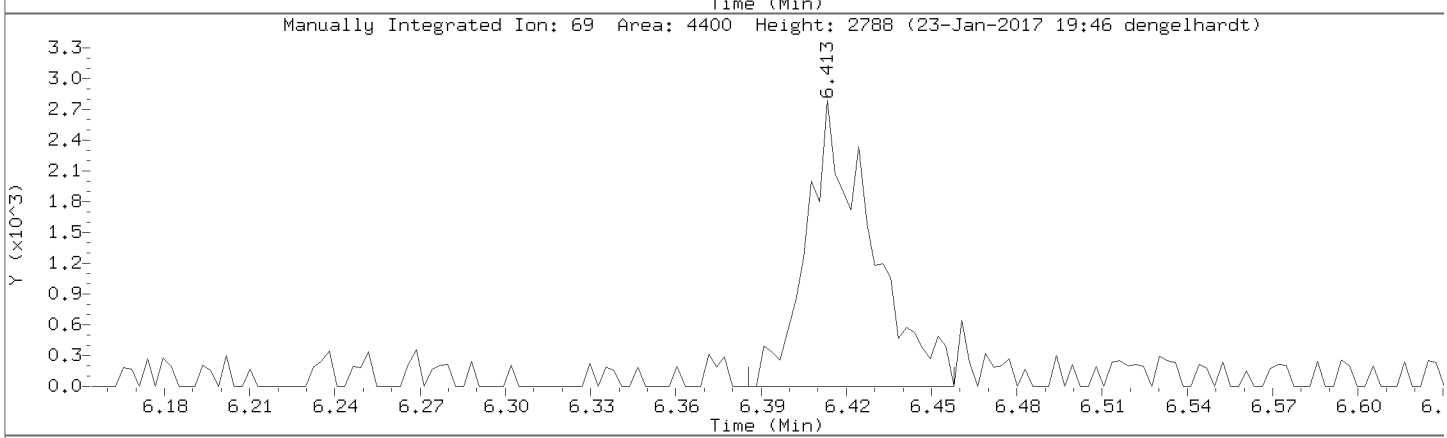
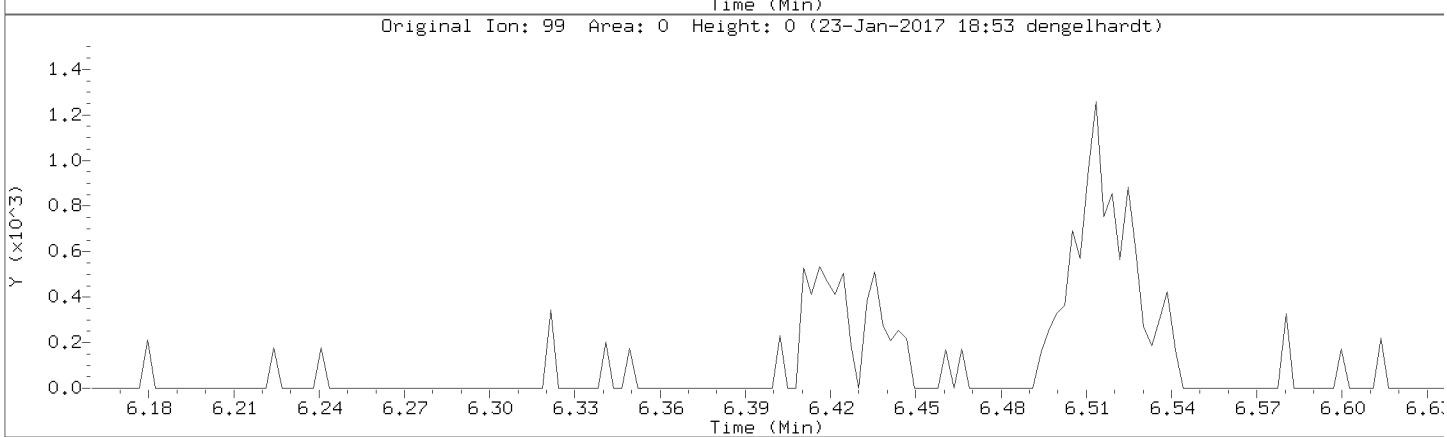
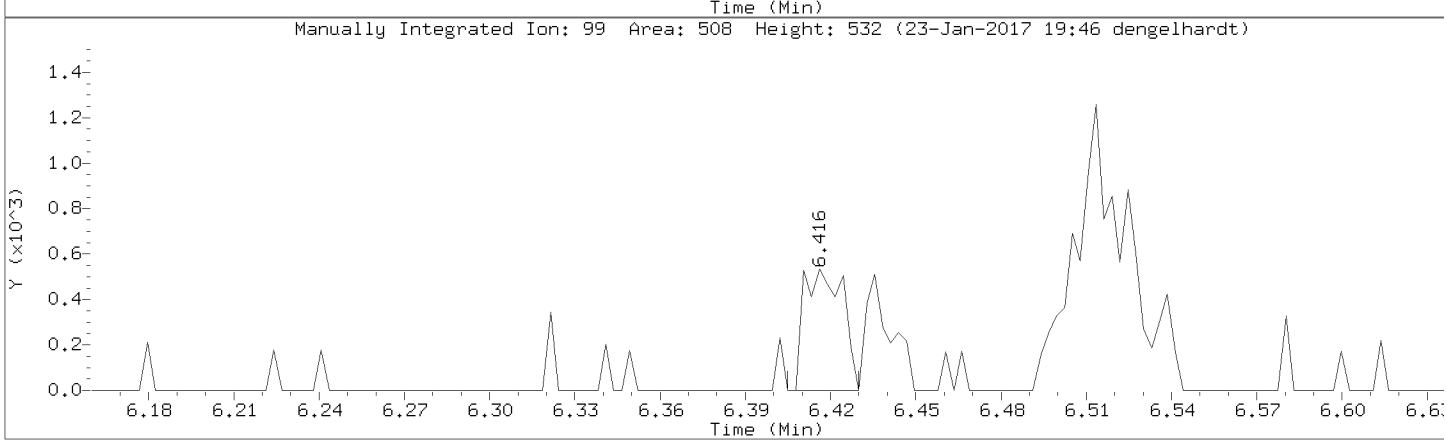
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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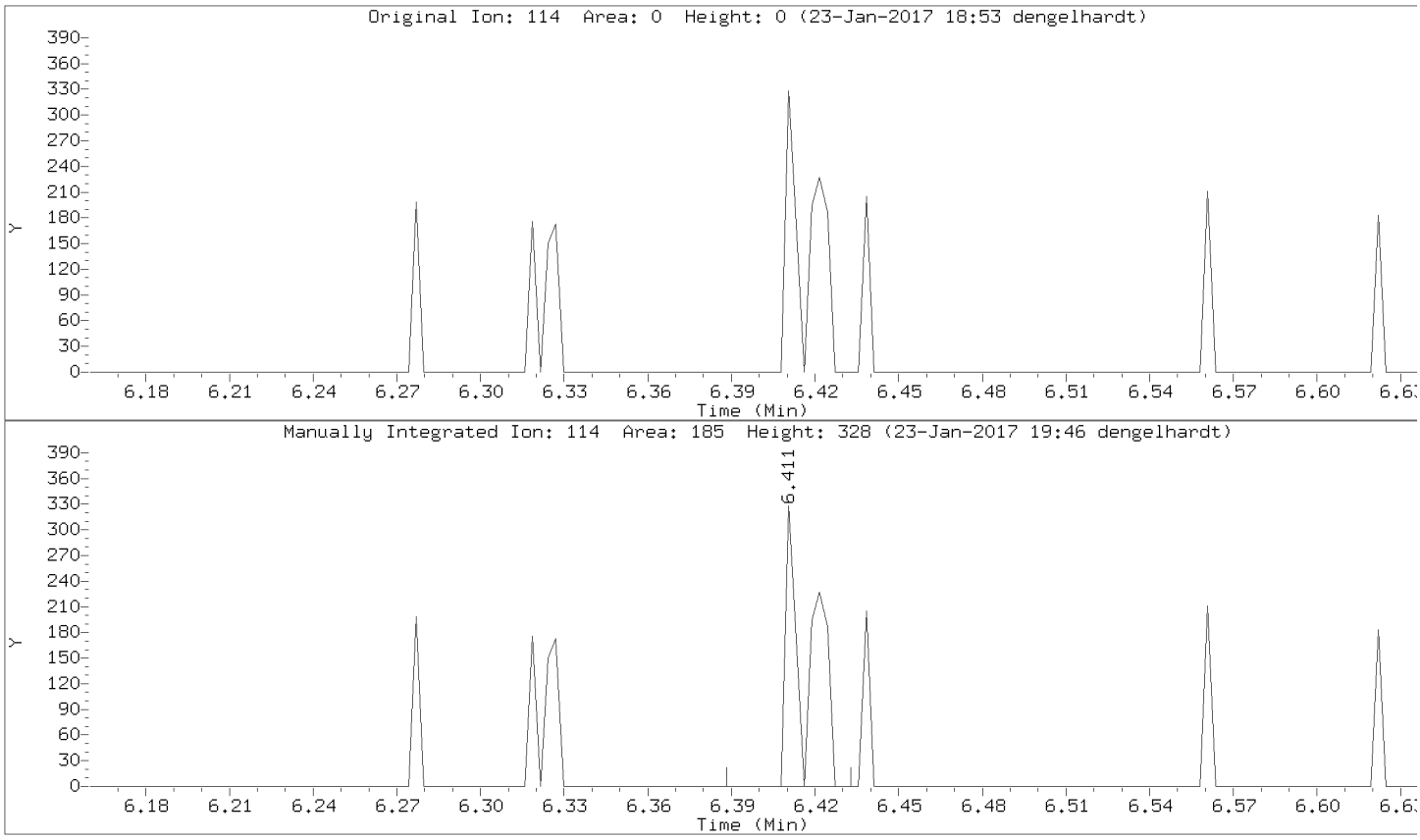
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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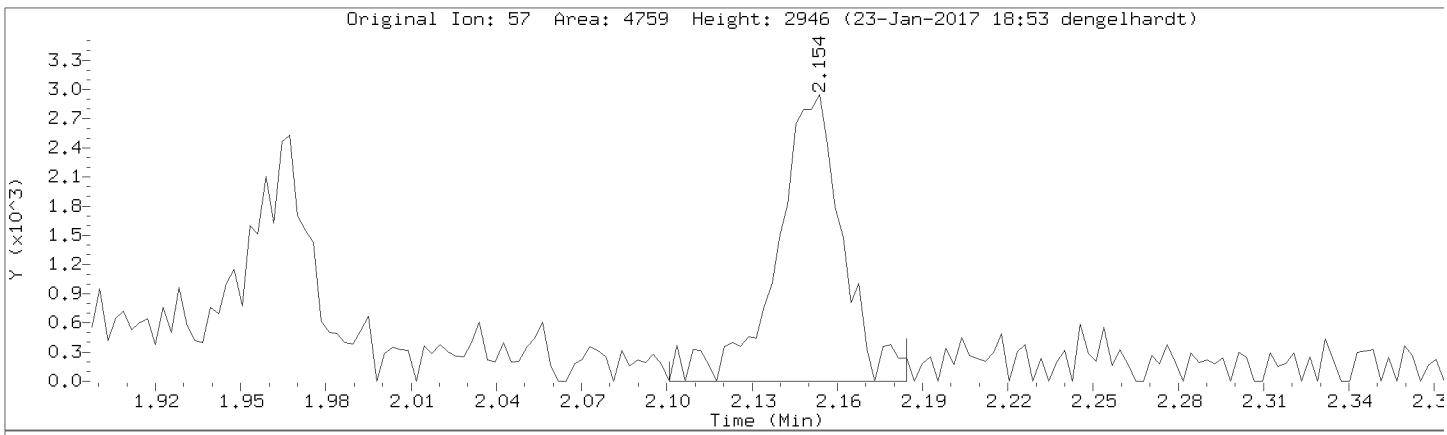
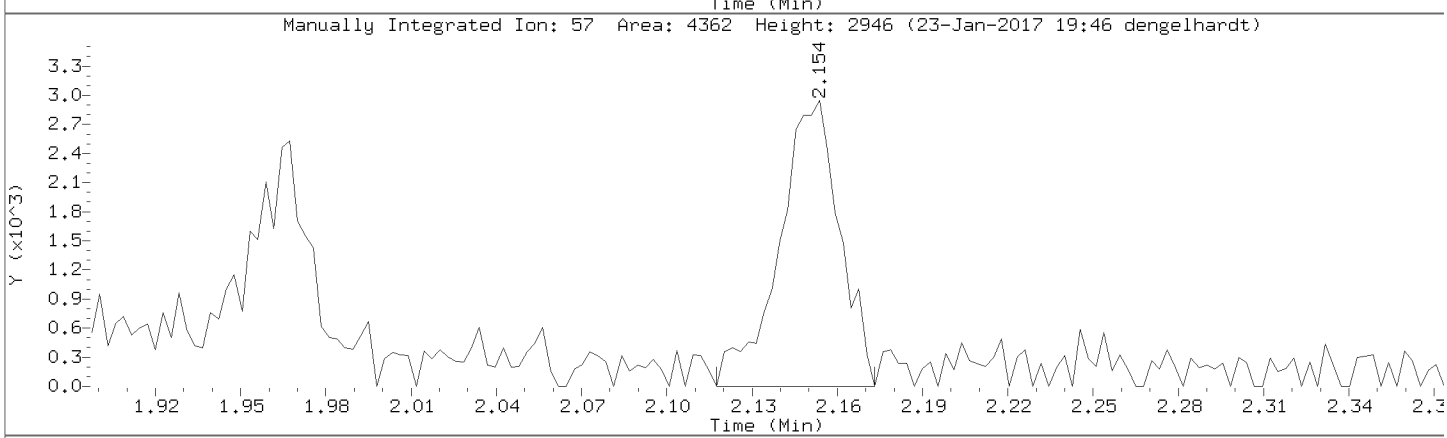
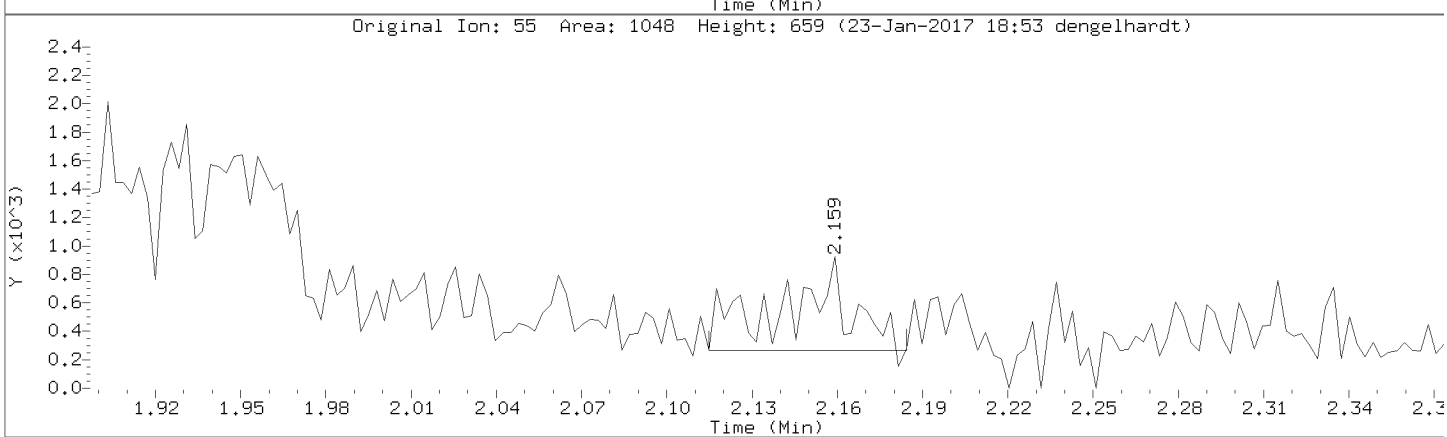
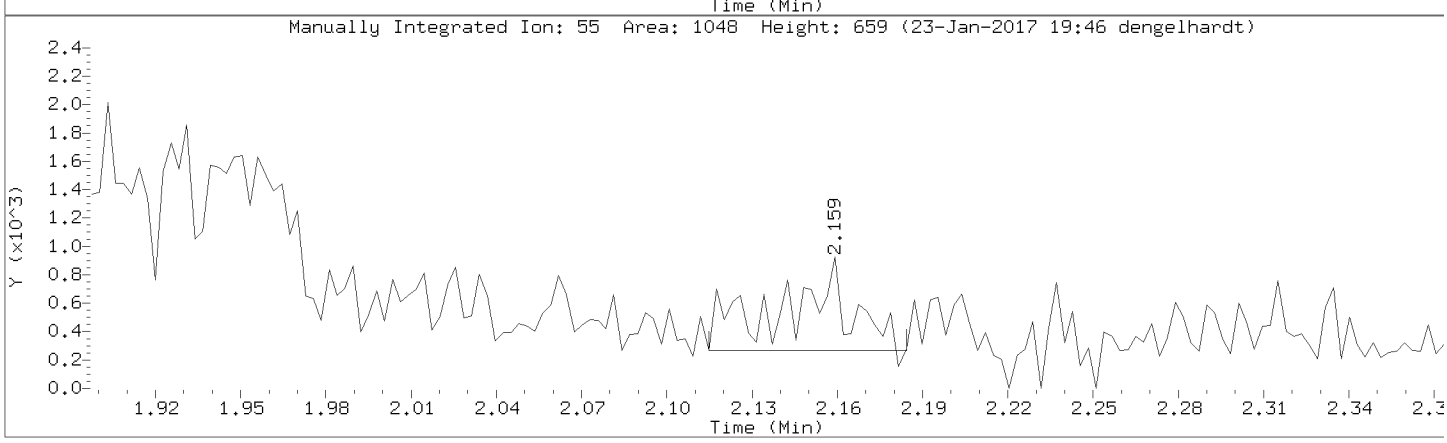
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: n-Hexane Review Code: GT
CAS Number:









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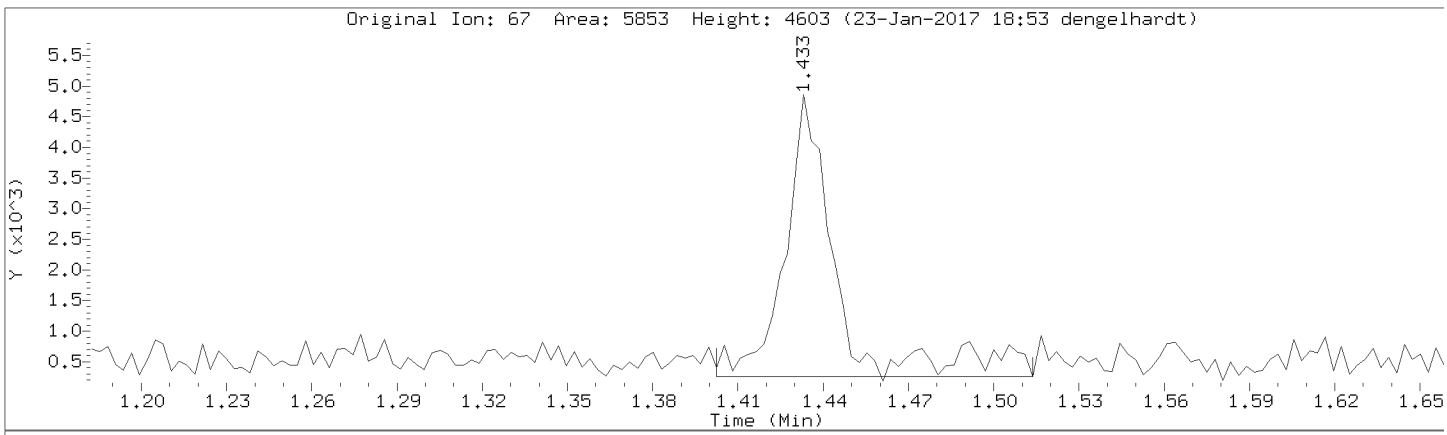
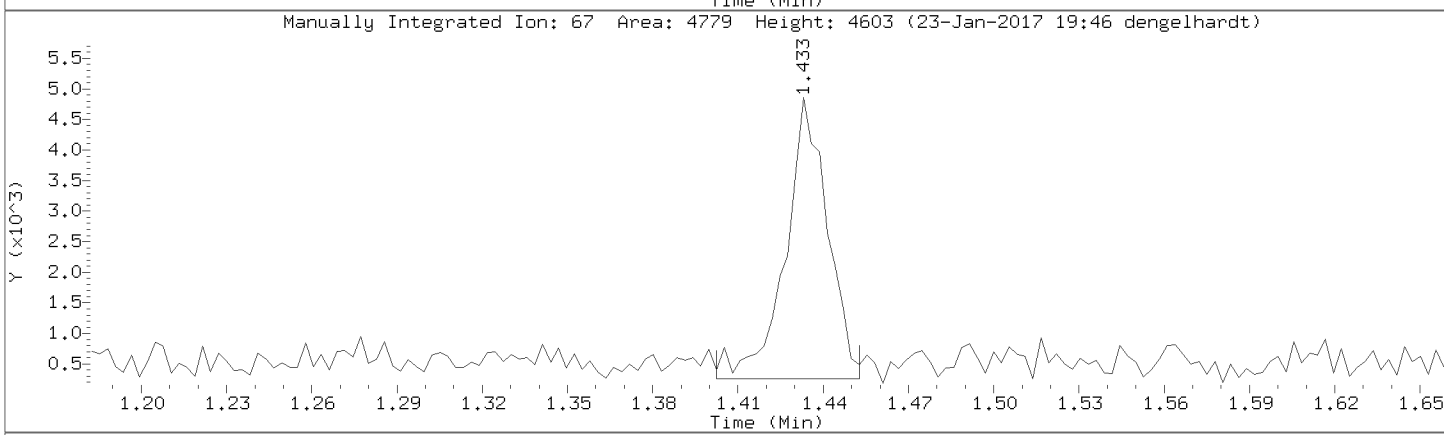
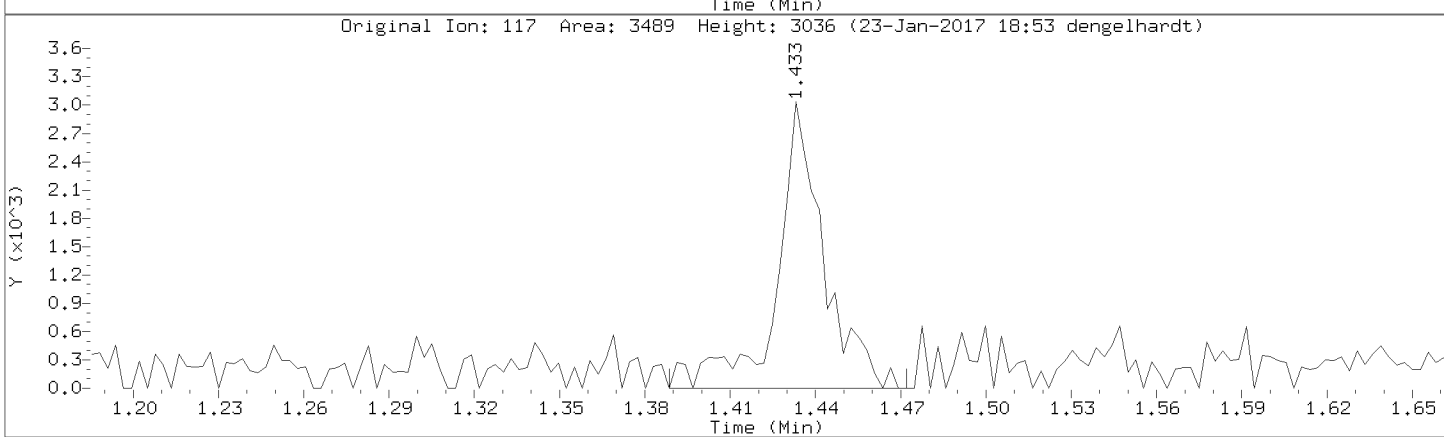
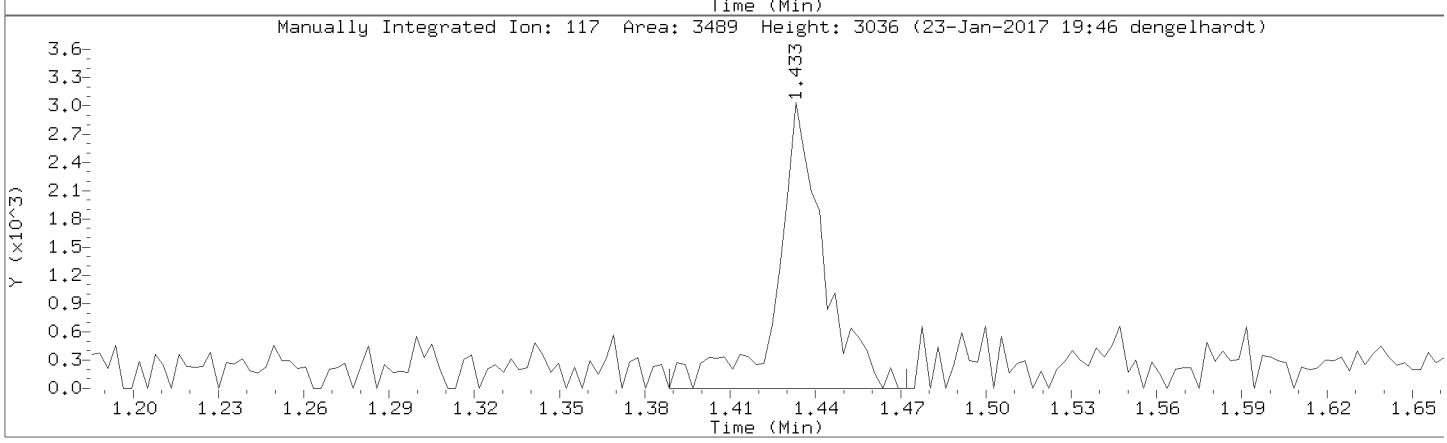
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-dichlorotrifluoroethane Review Code: GT
CAS Number: 354-23-4









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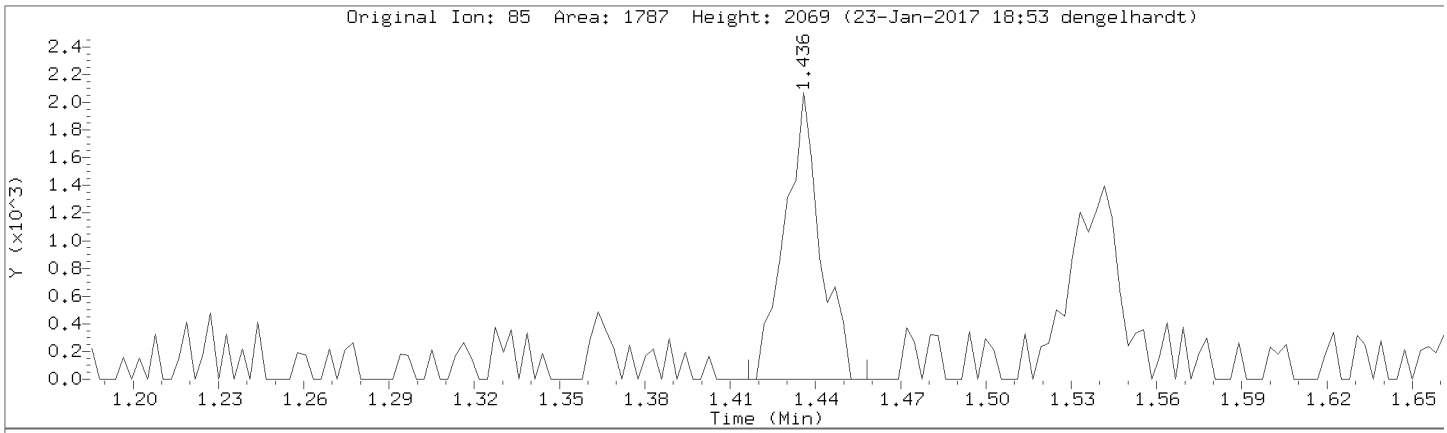
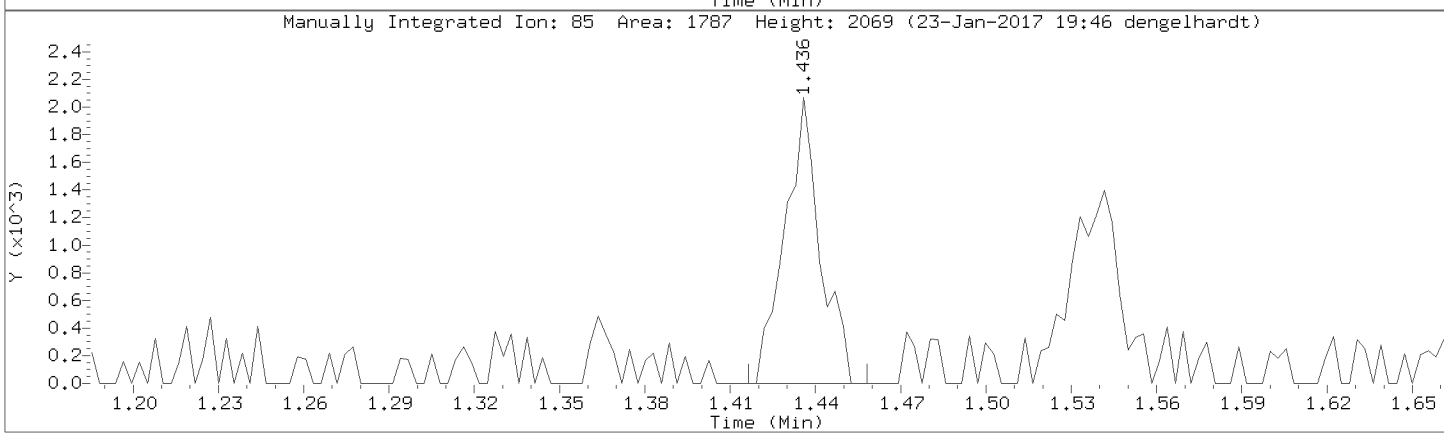
Lab Sample ID: 8260-CAL2





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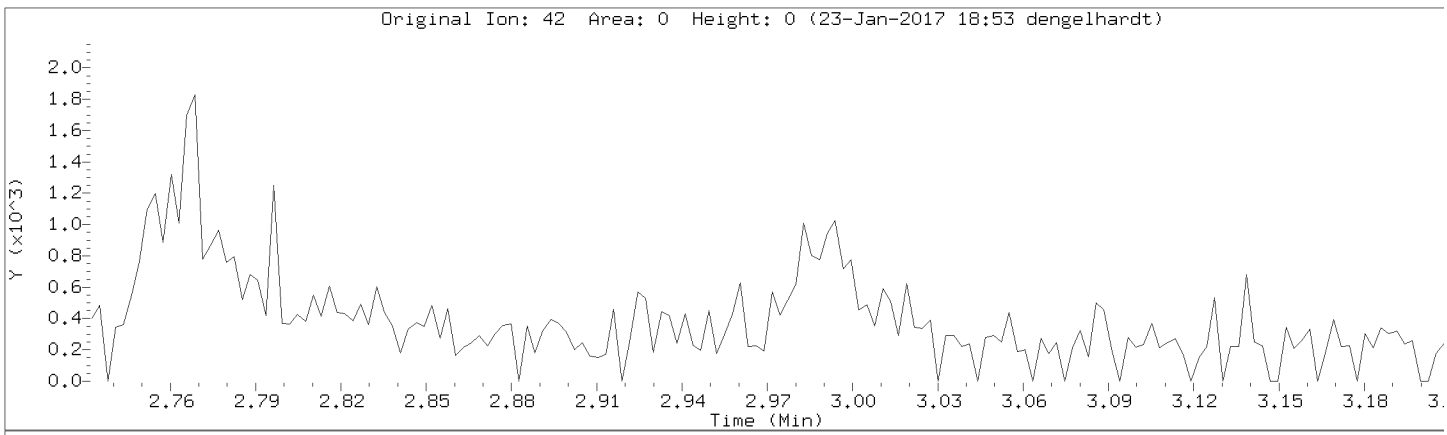
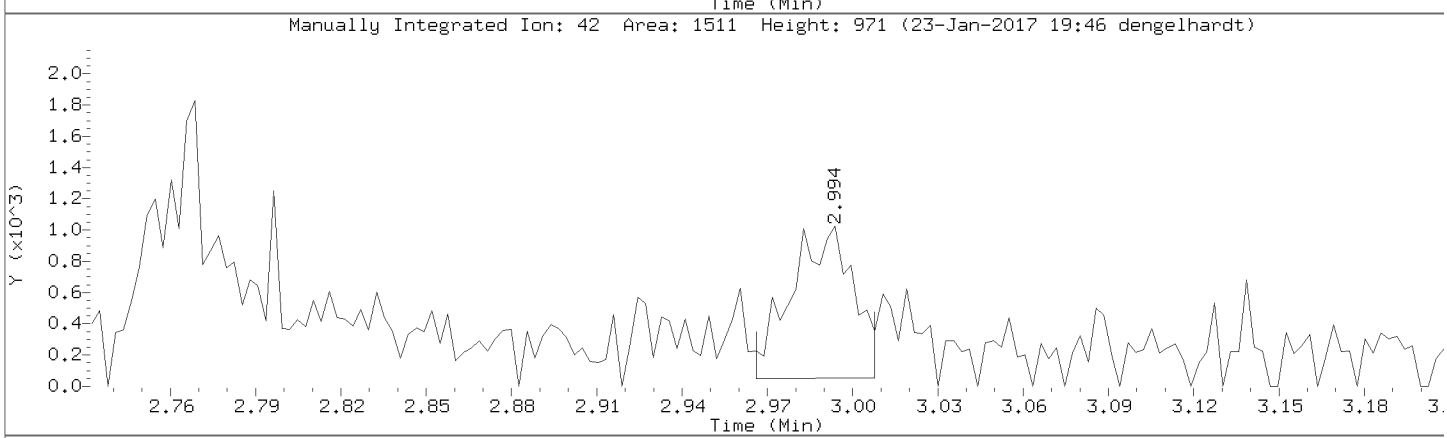
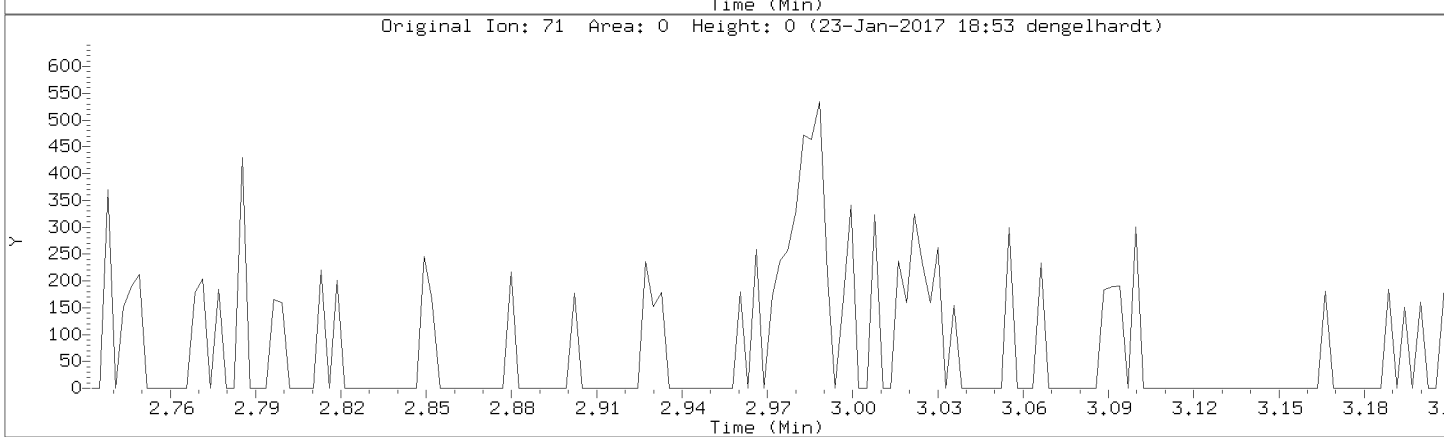
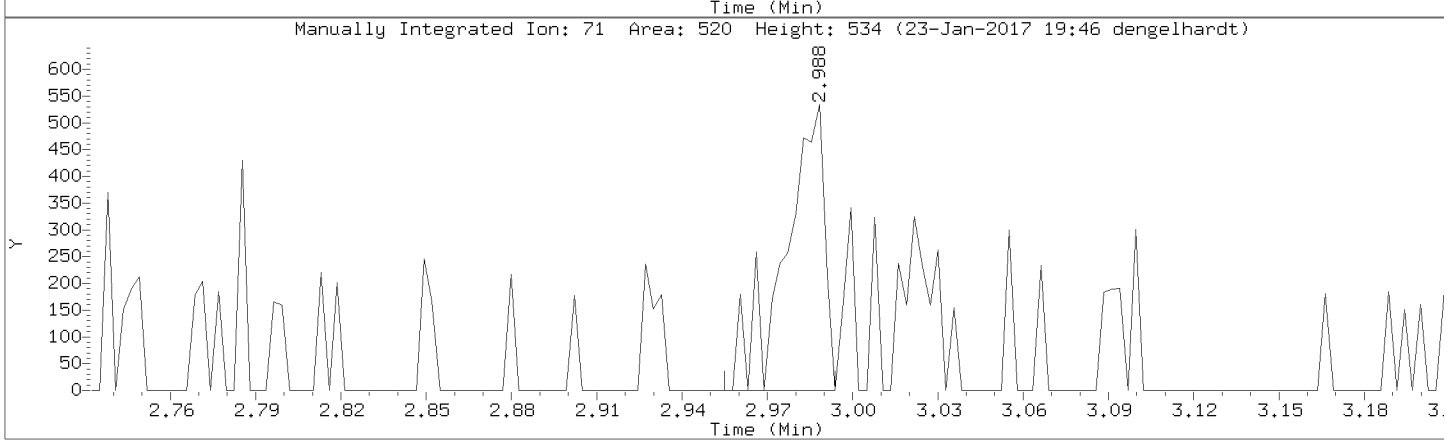
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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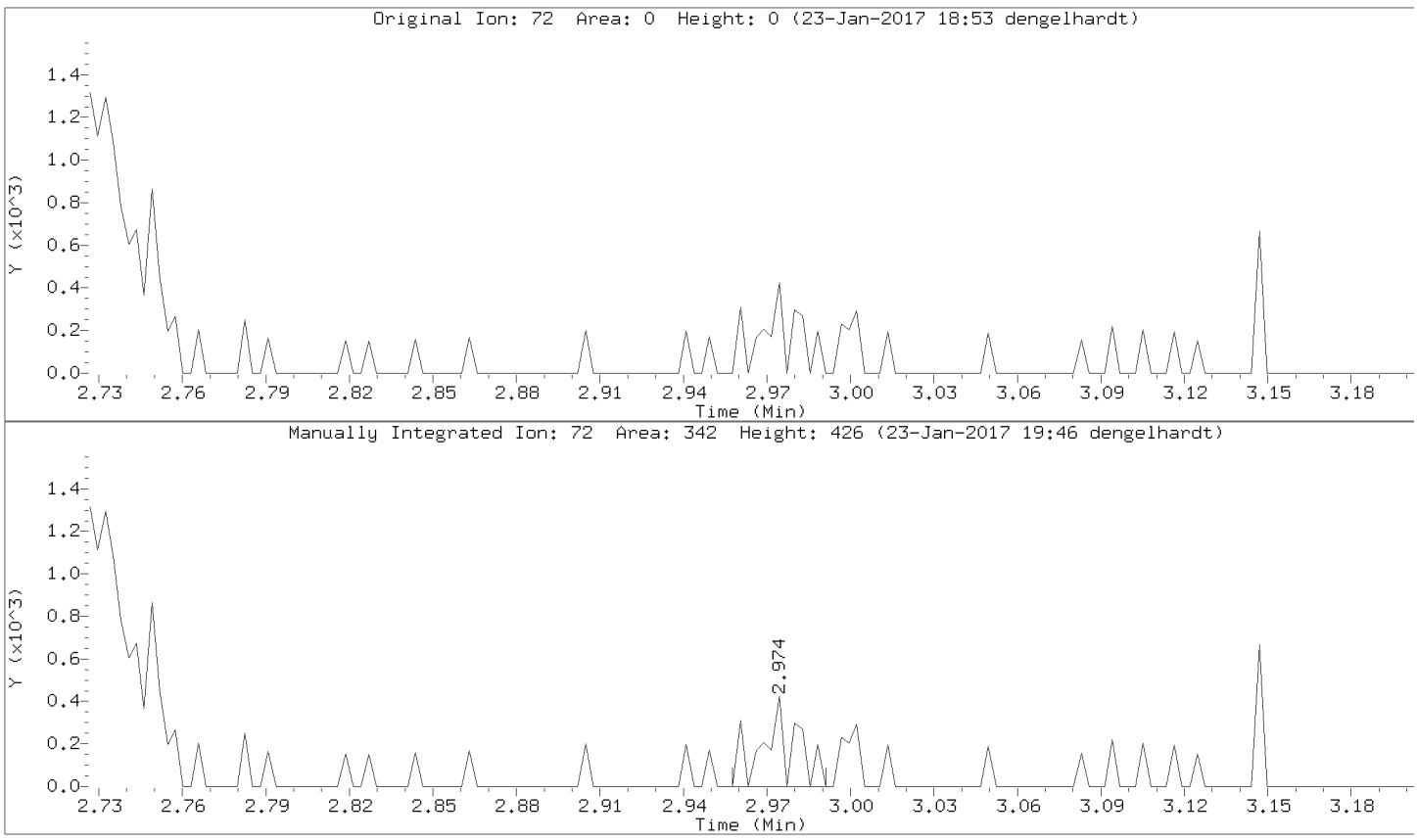
Lab Sample ID: 8260-CAL2



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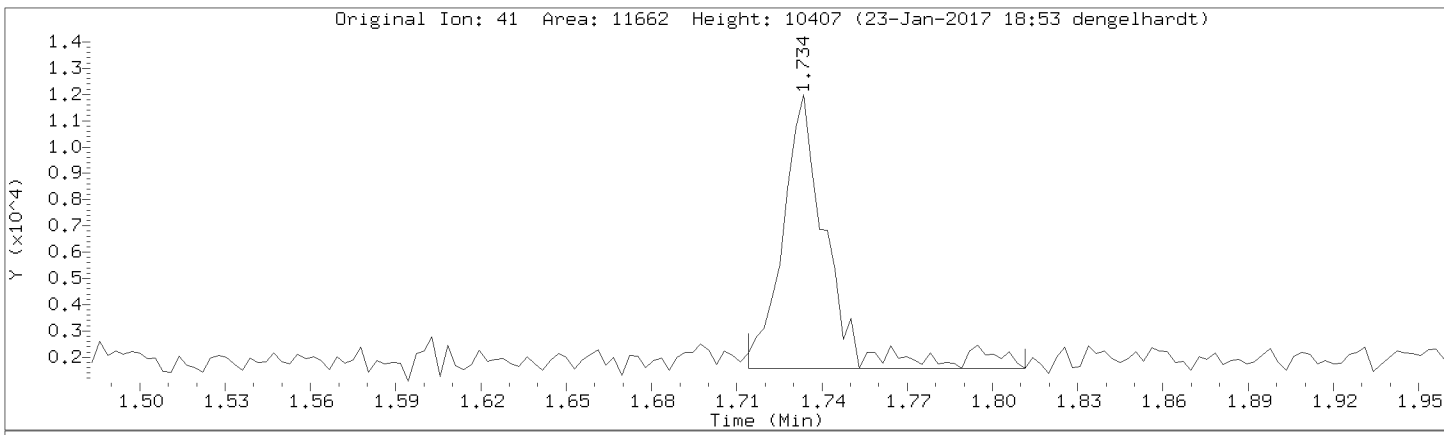
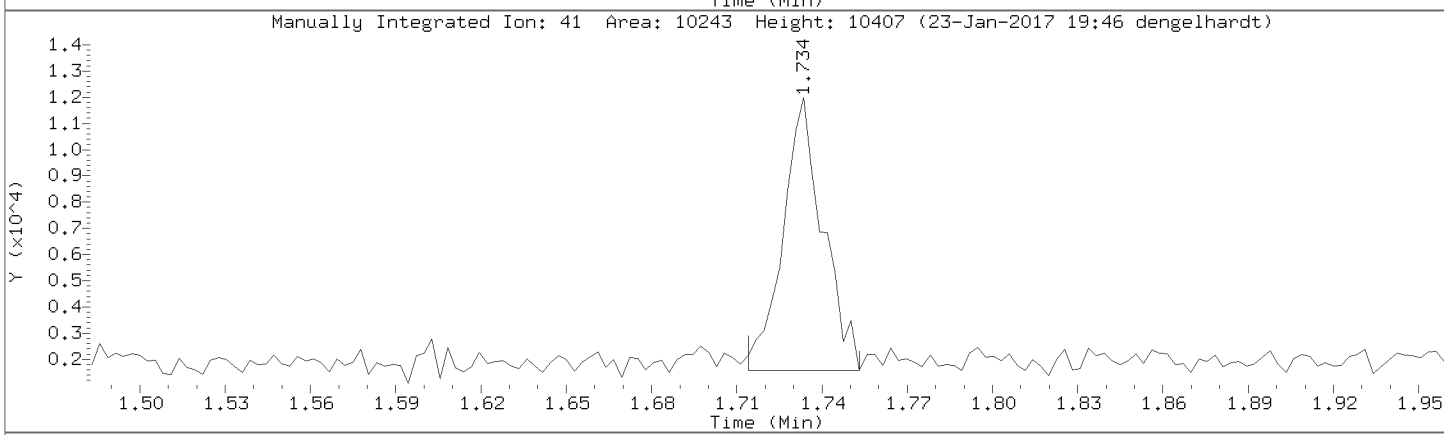
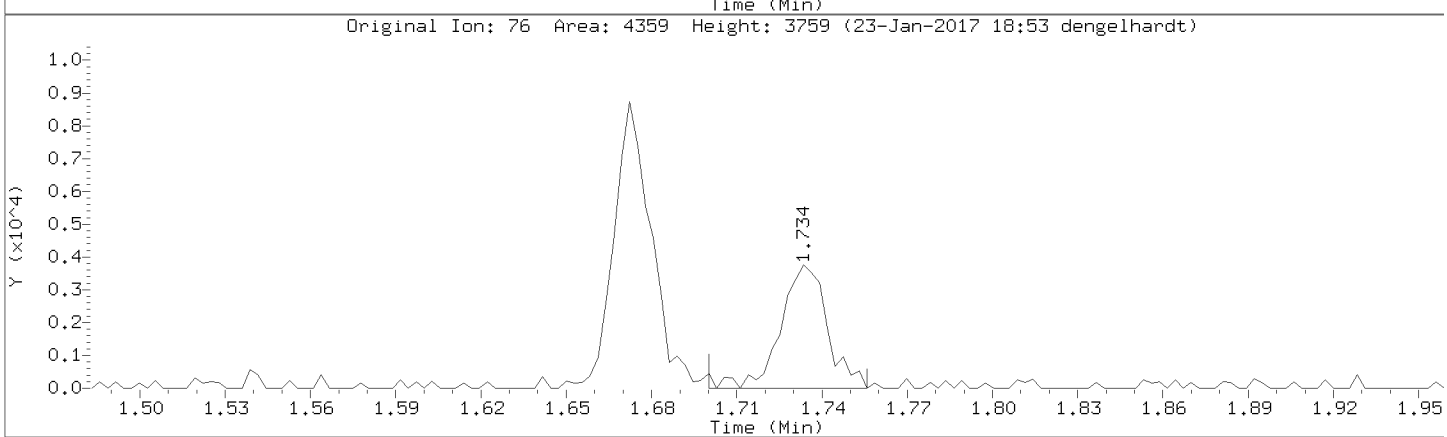
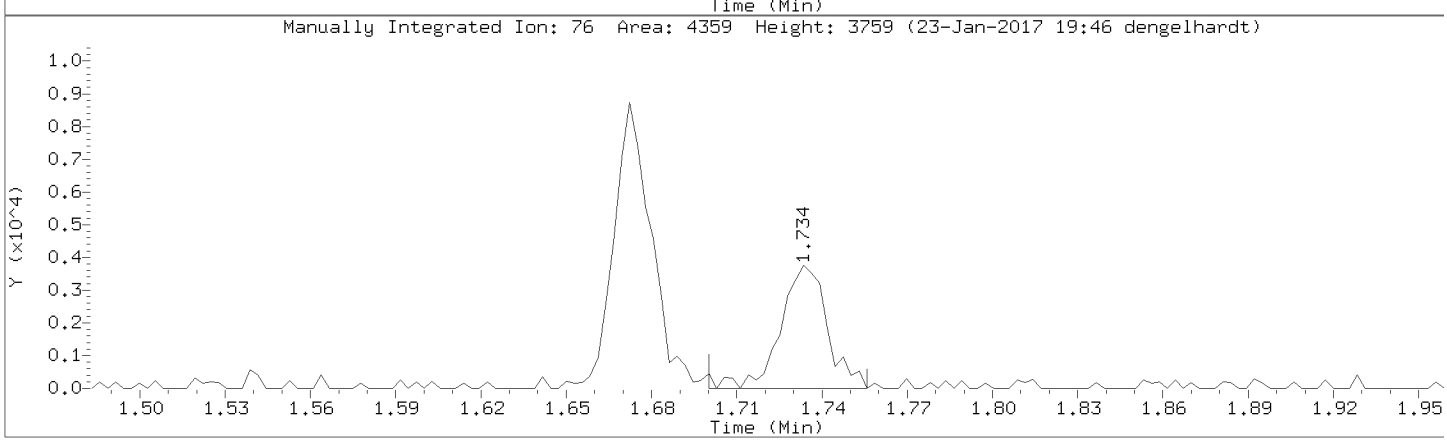
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: allyl chloride Review Code: GT
CAS Number: 107-05-1









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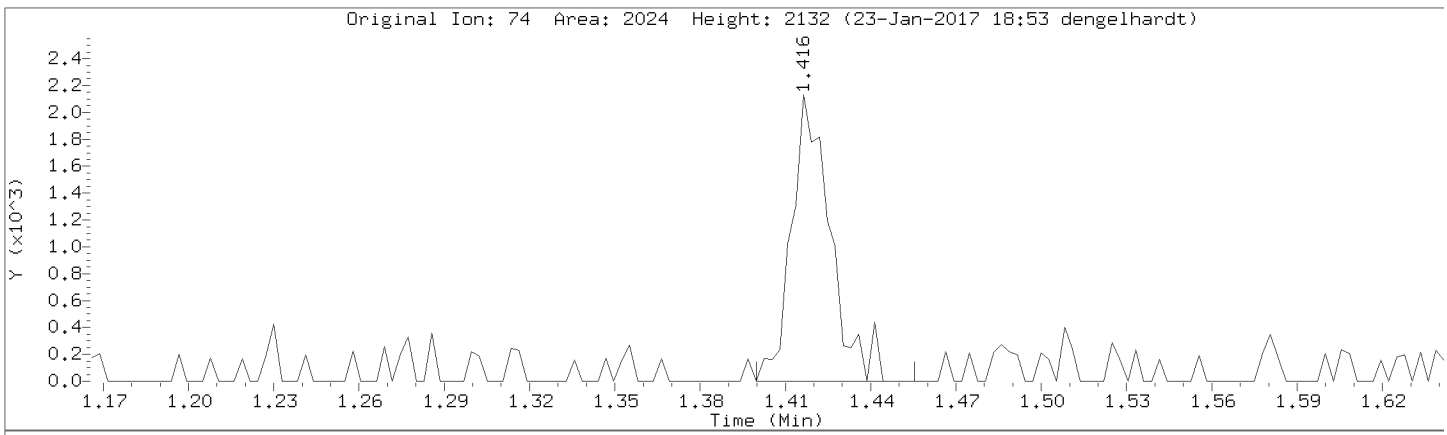
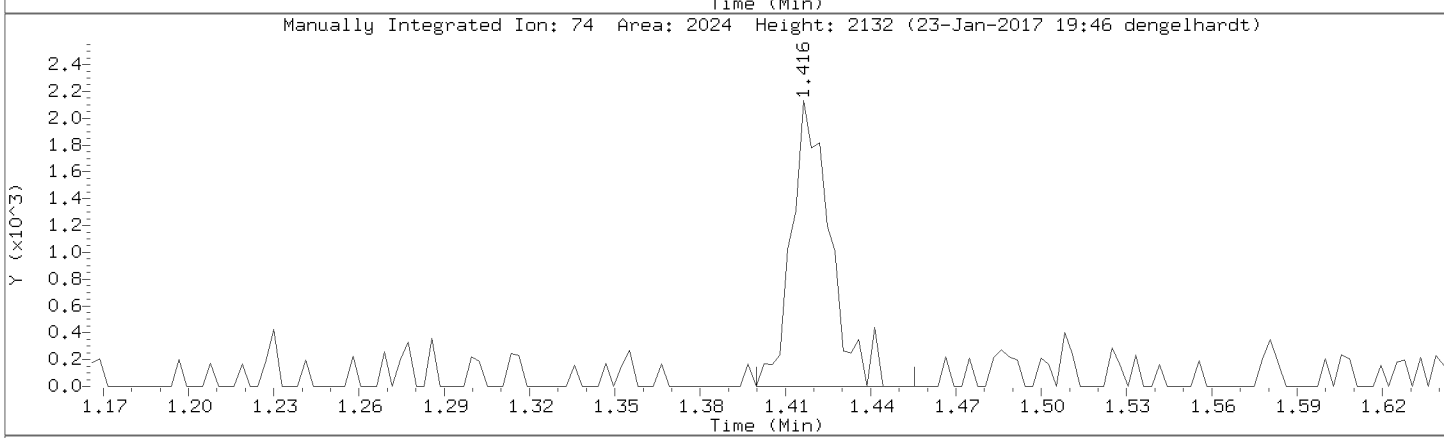
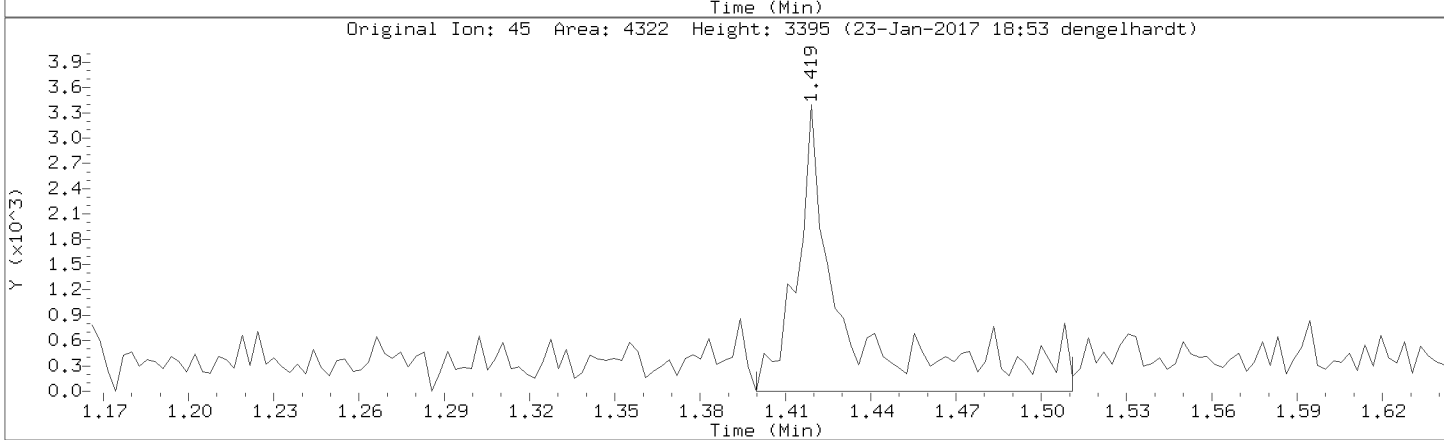
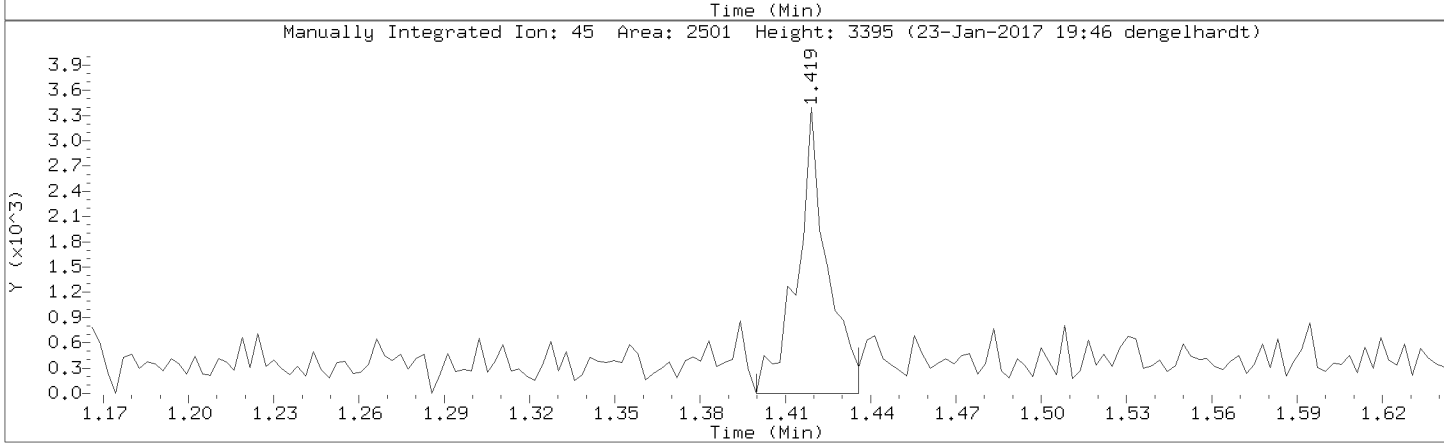
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Diethyl ether Review Code: GT
CAS Number: 60-29-7









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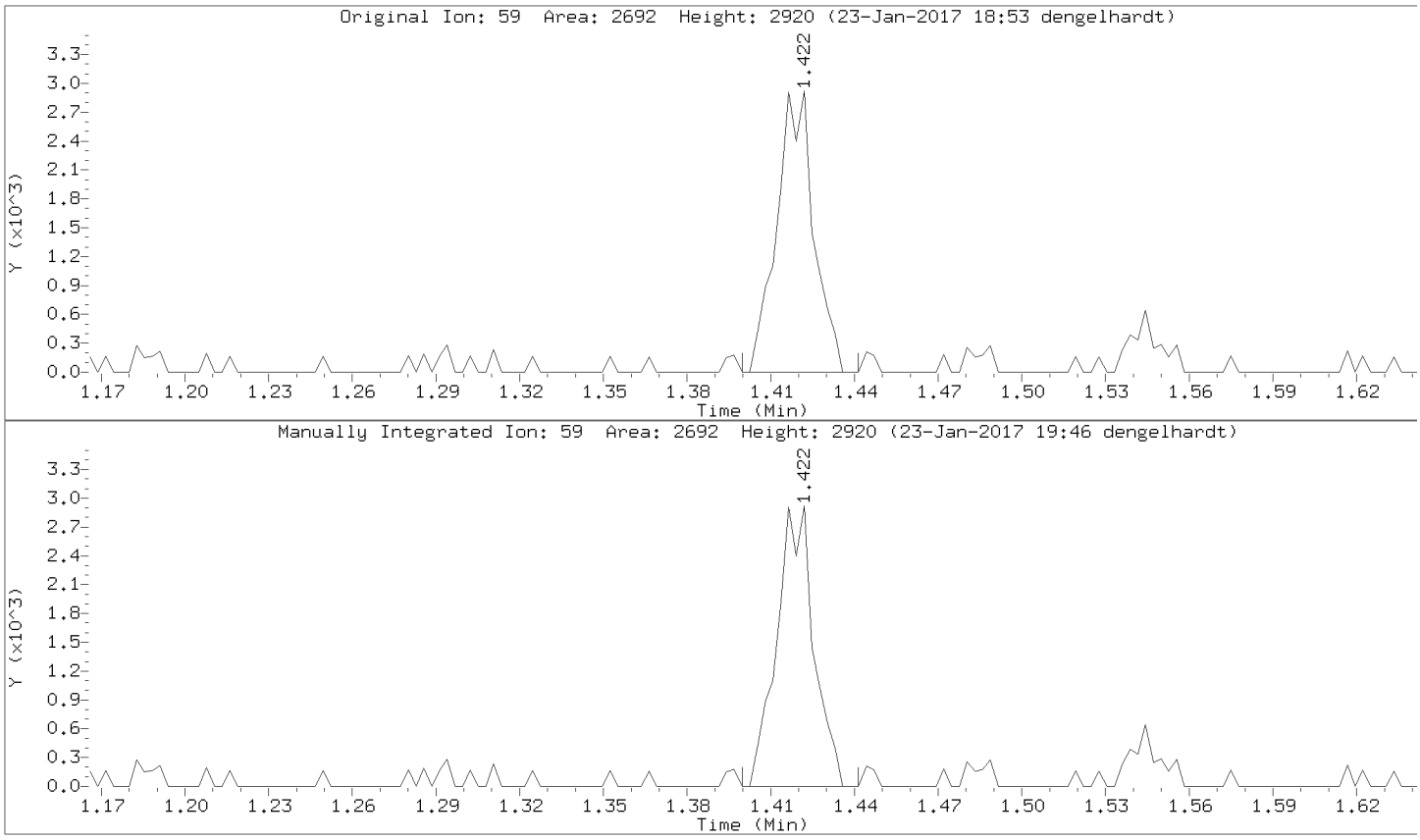
Lab Sample ID: 8260-CAL2



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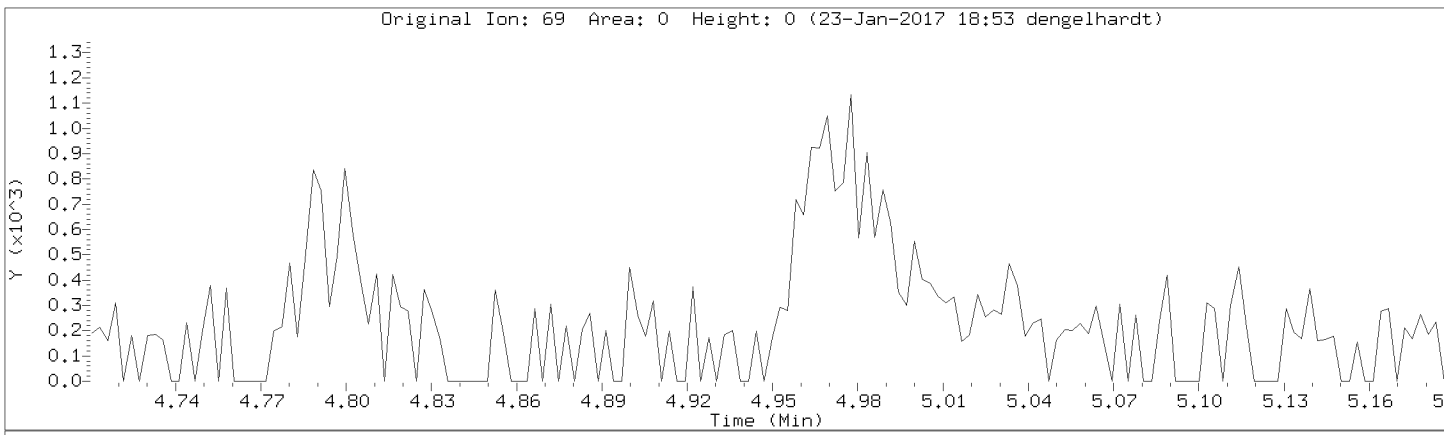
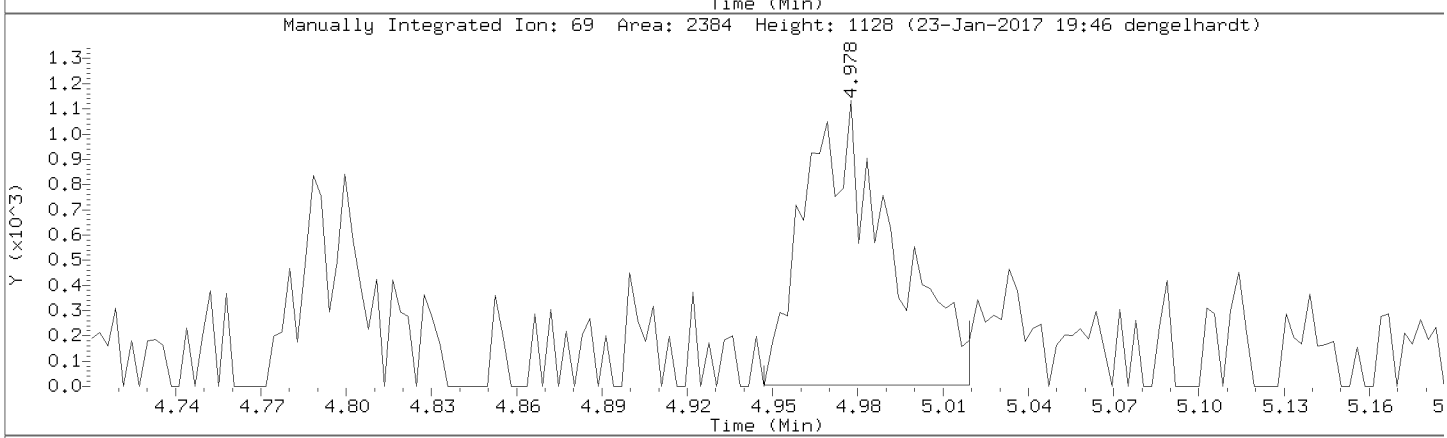
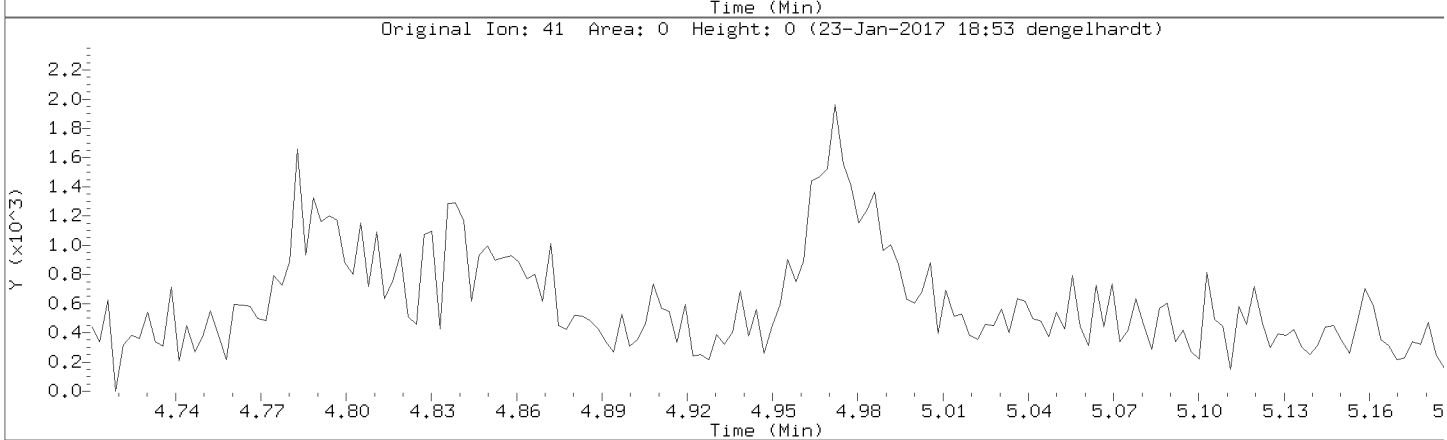
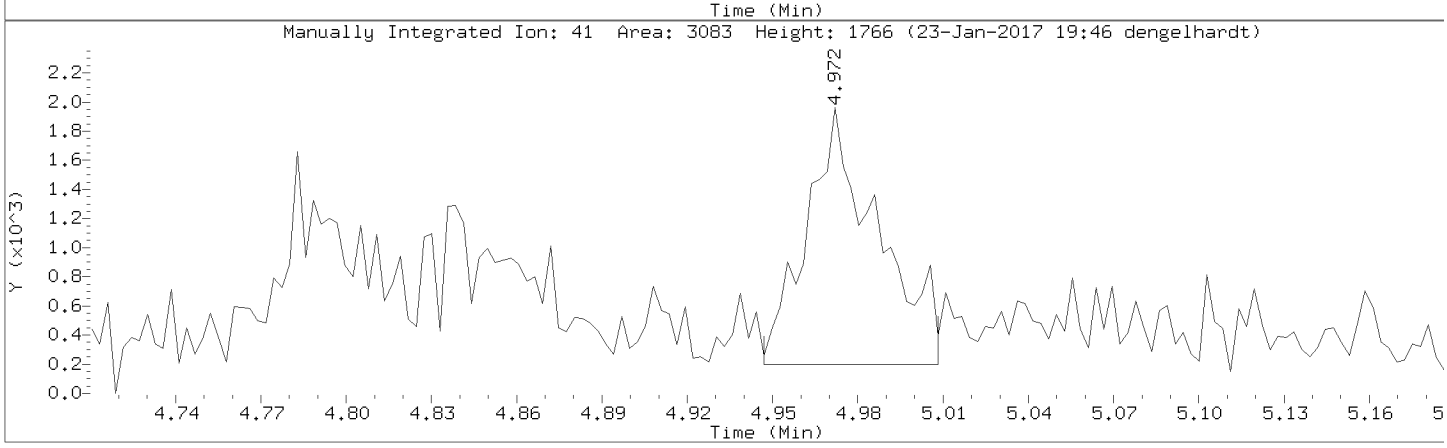
Lab Sample ID: 8260-CAL2

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6









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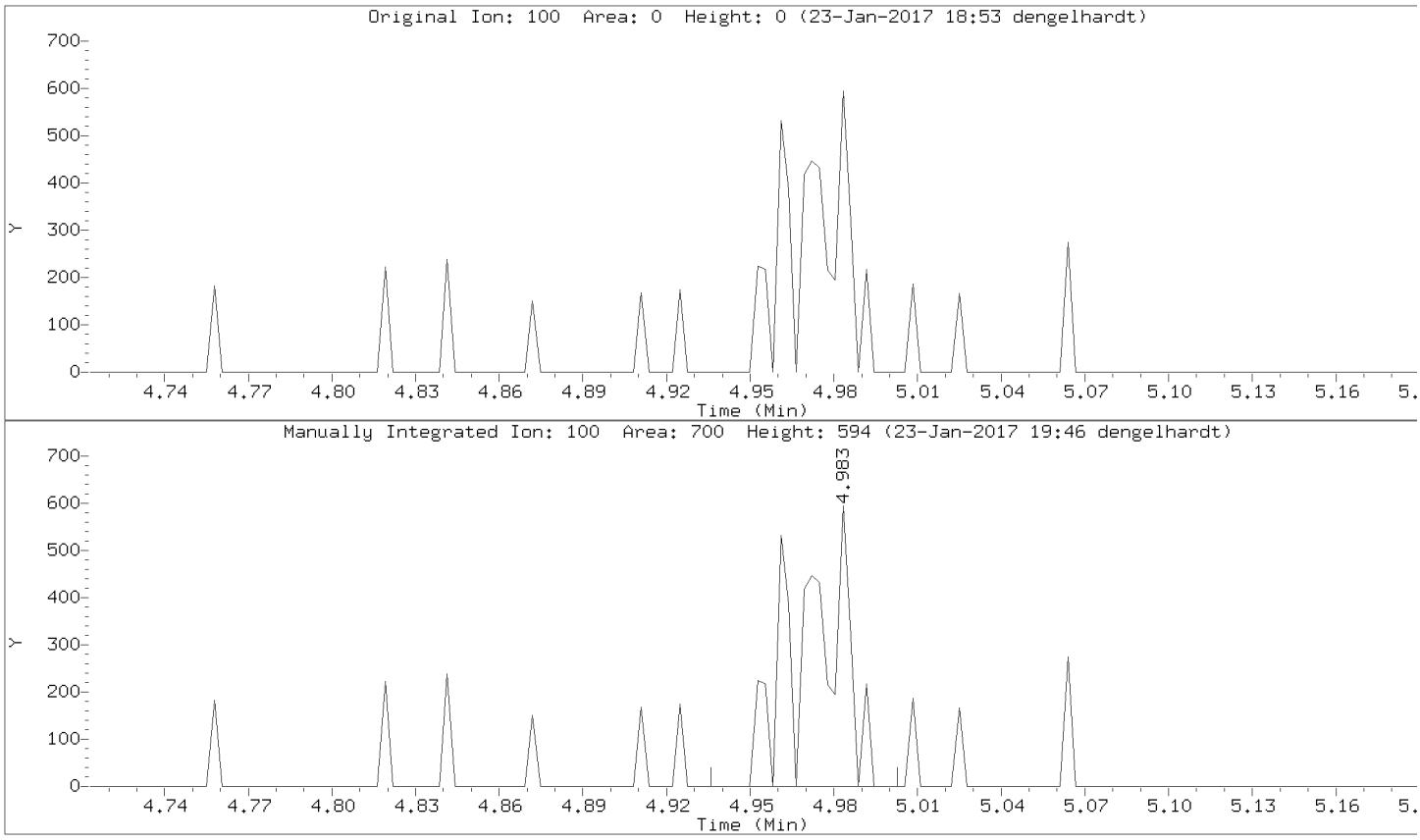
Lab Sample ID: 8260-CAL2



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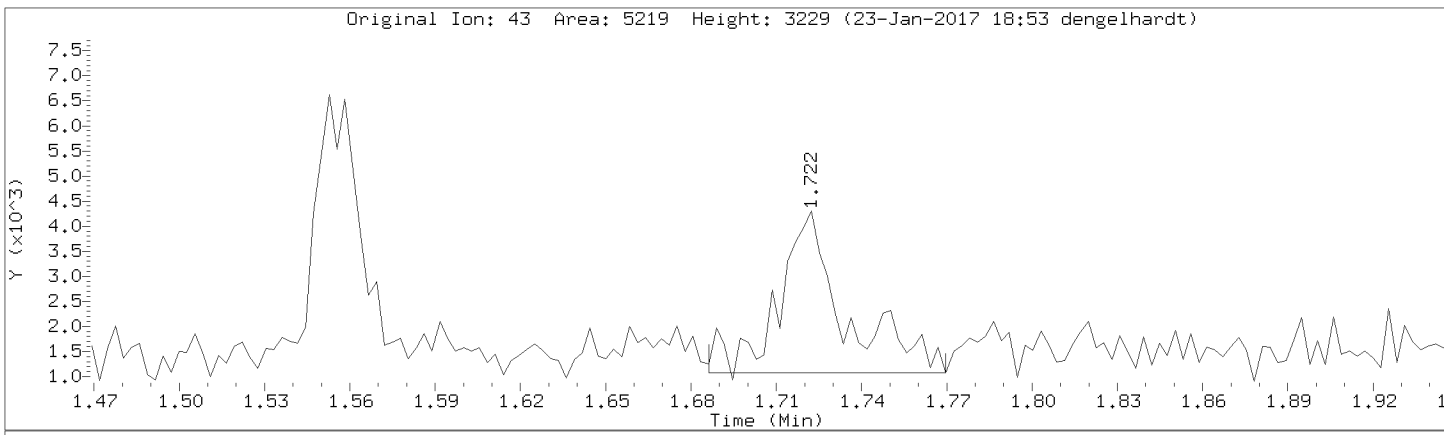
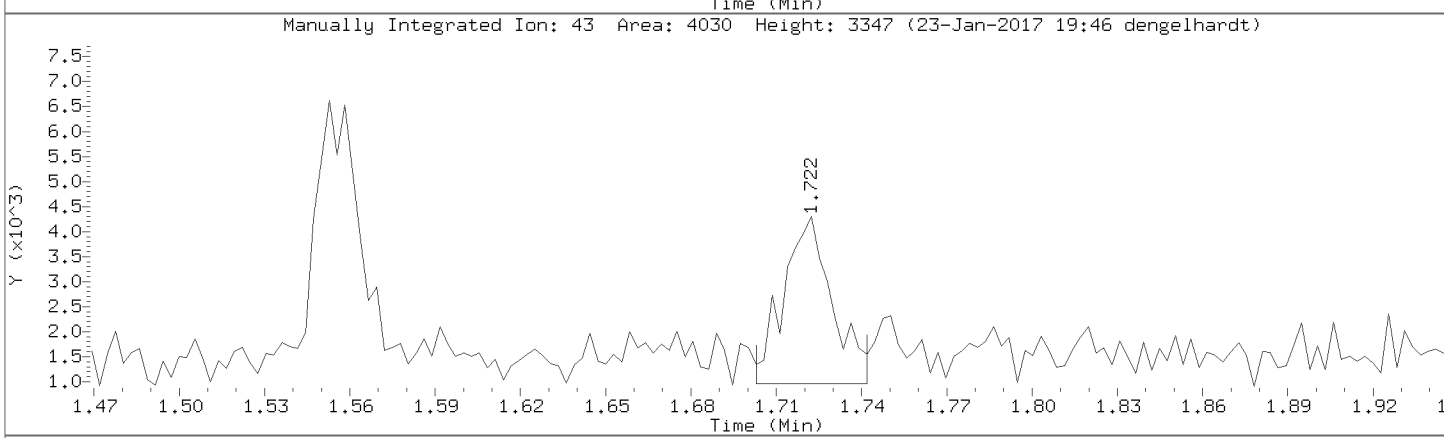
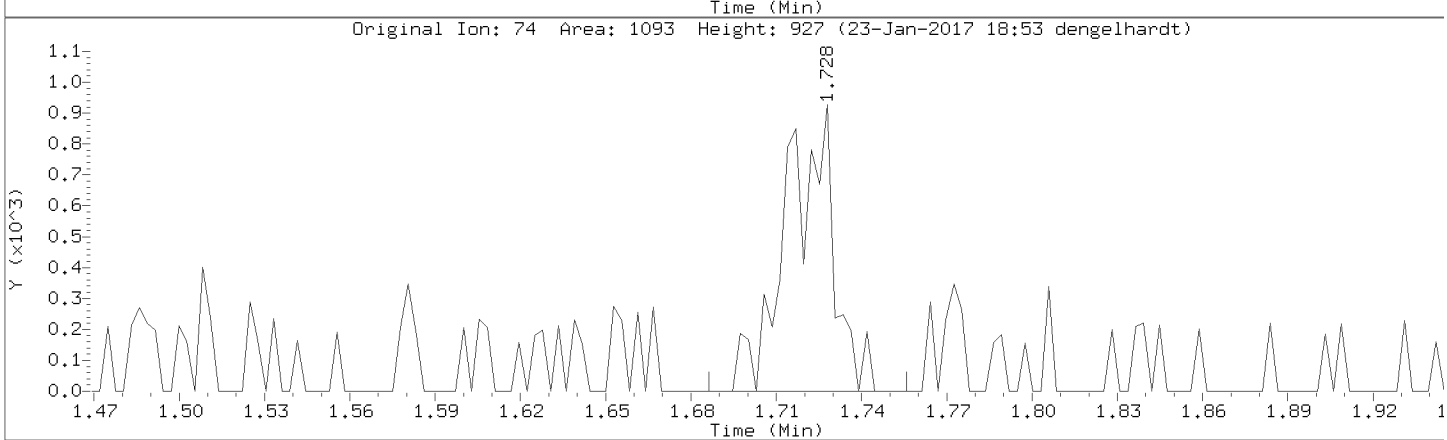
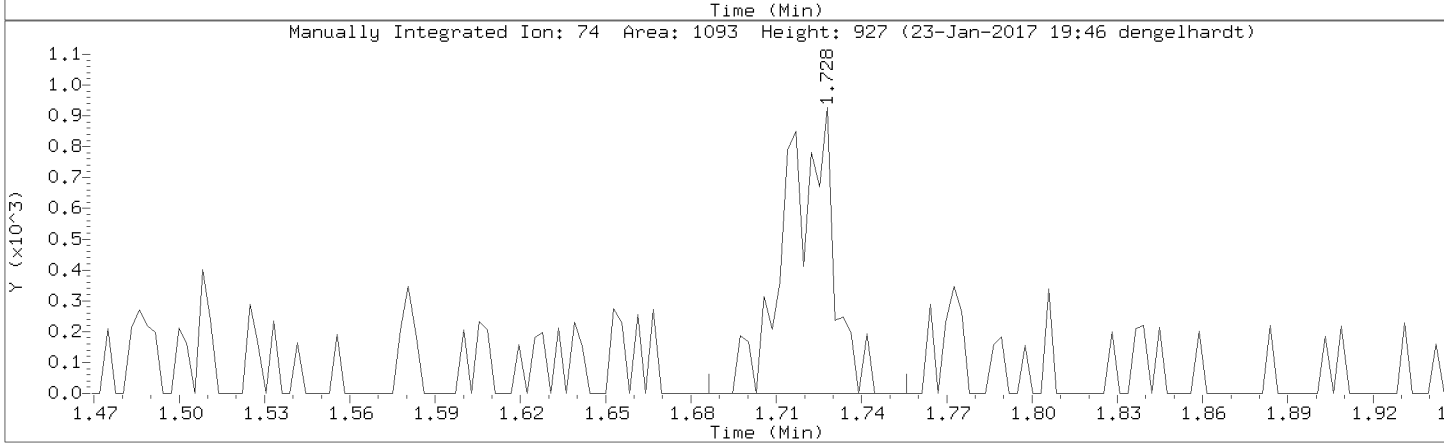
Lab Sample ID: 8260-CAL2

Compound: Methyl Acetate Review Code: LT
CAS Number: 79-20-9









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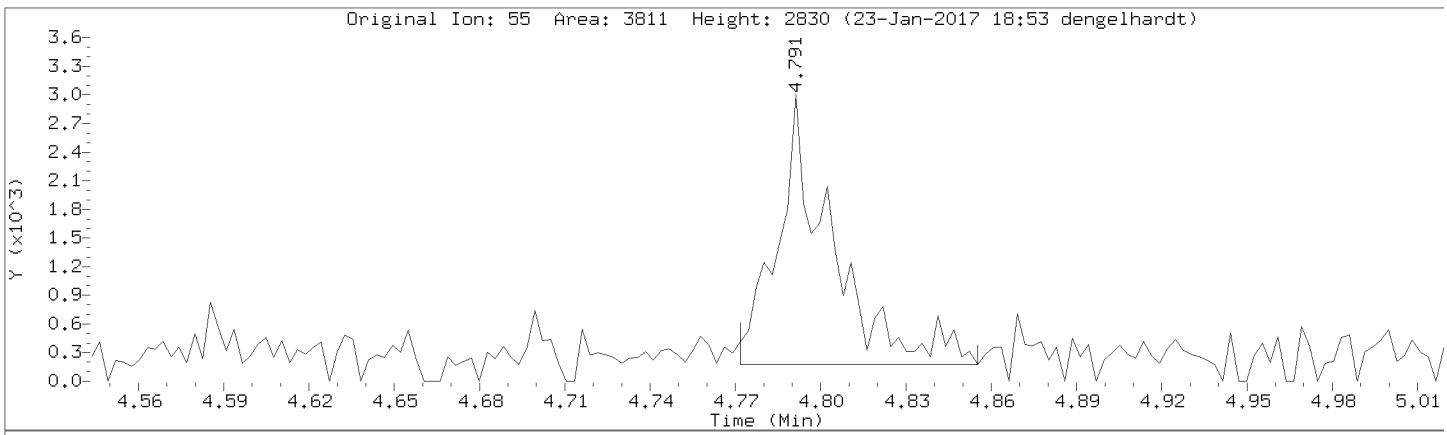
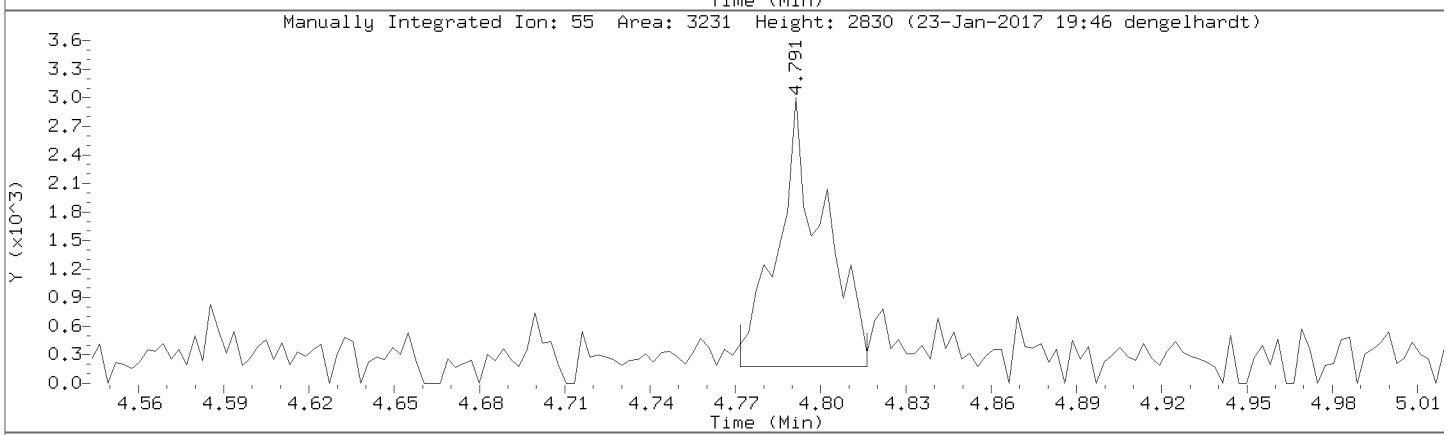
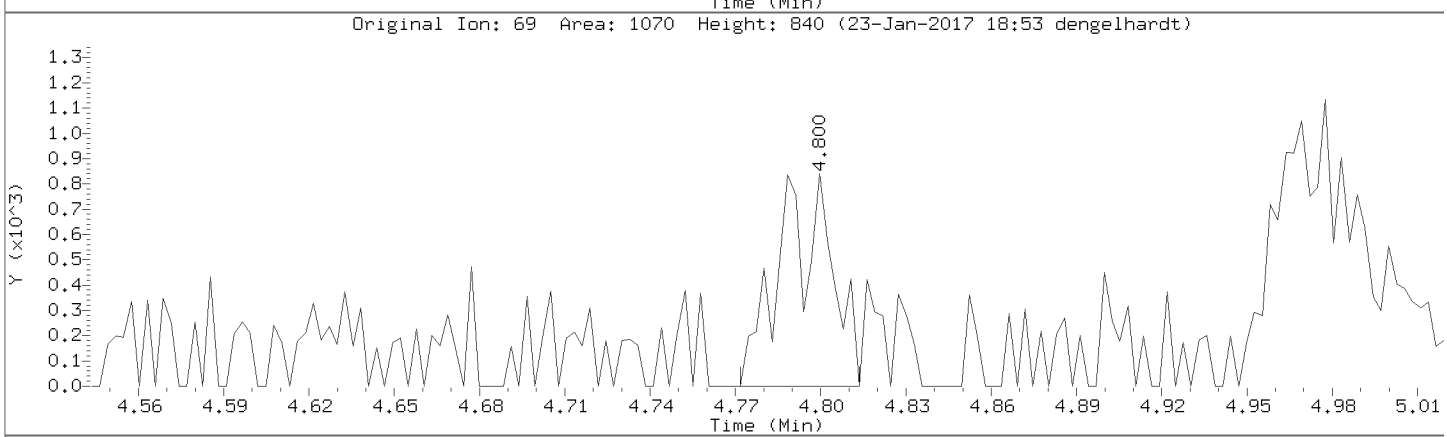
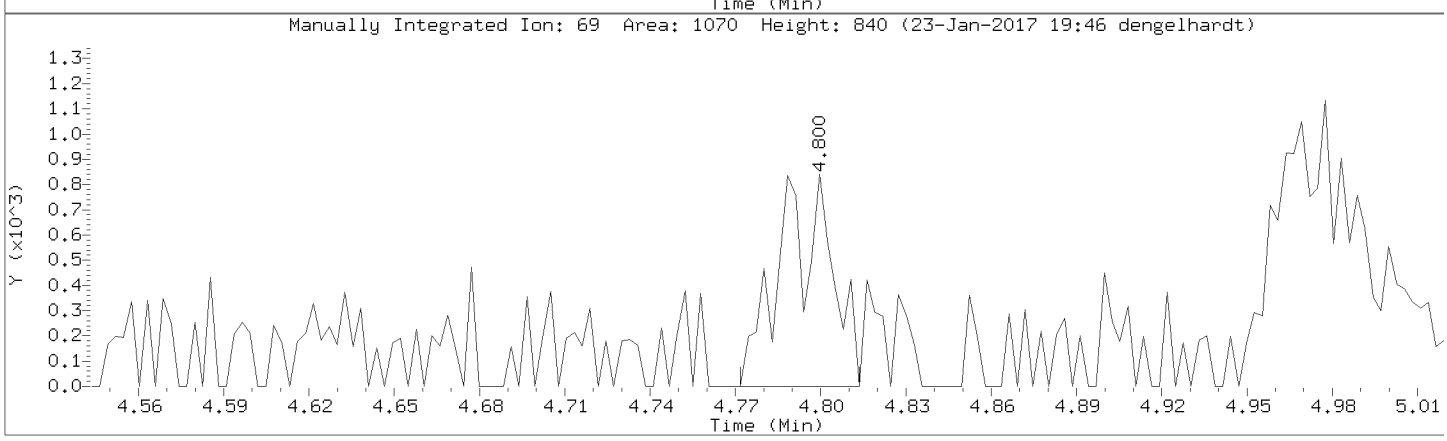
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Methylcyclohexane Review Code: GT
CAS Number: 108-87-2









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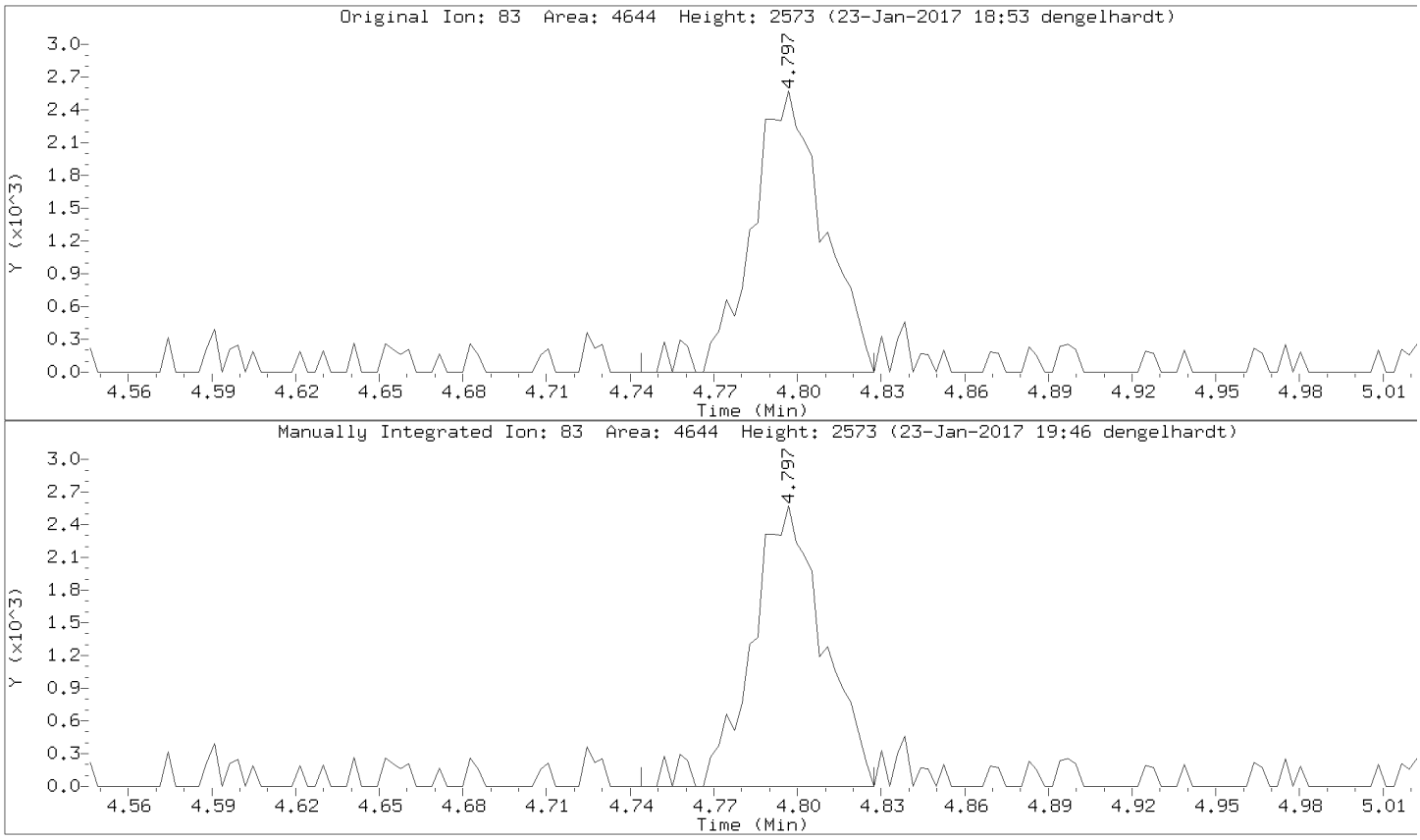
Lab Sample ID: 8260-CAL2



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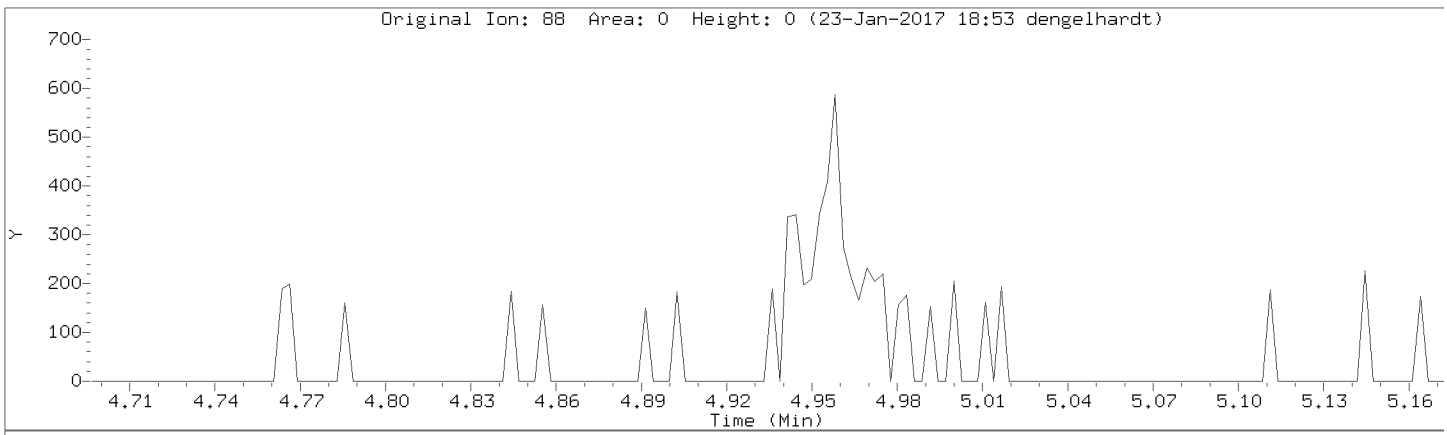
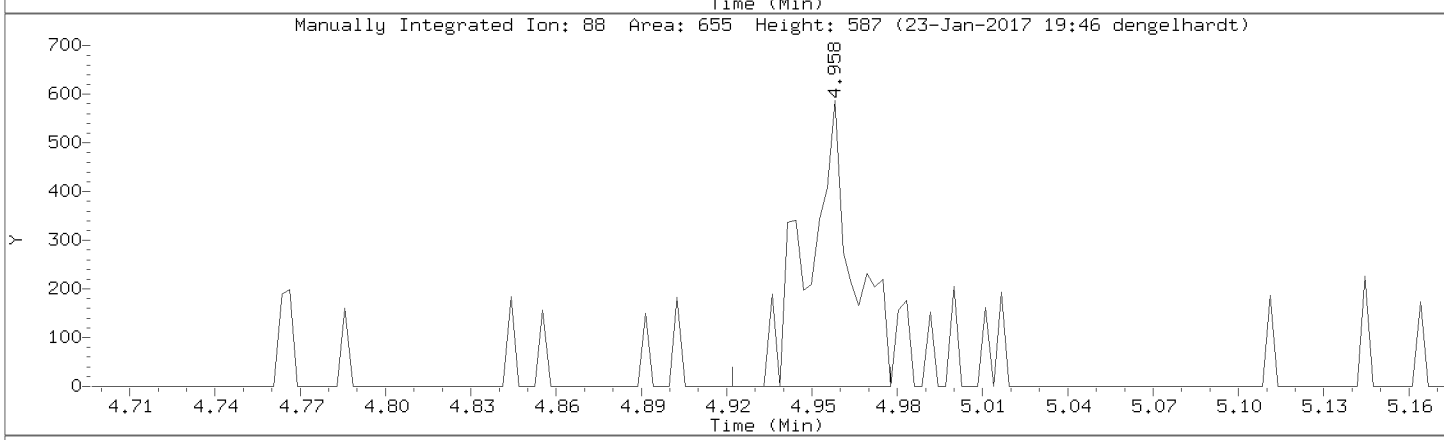
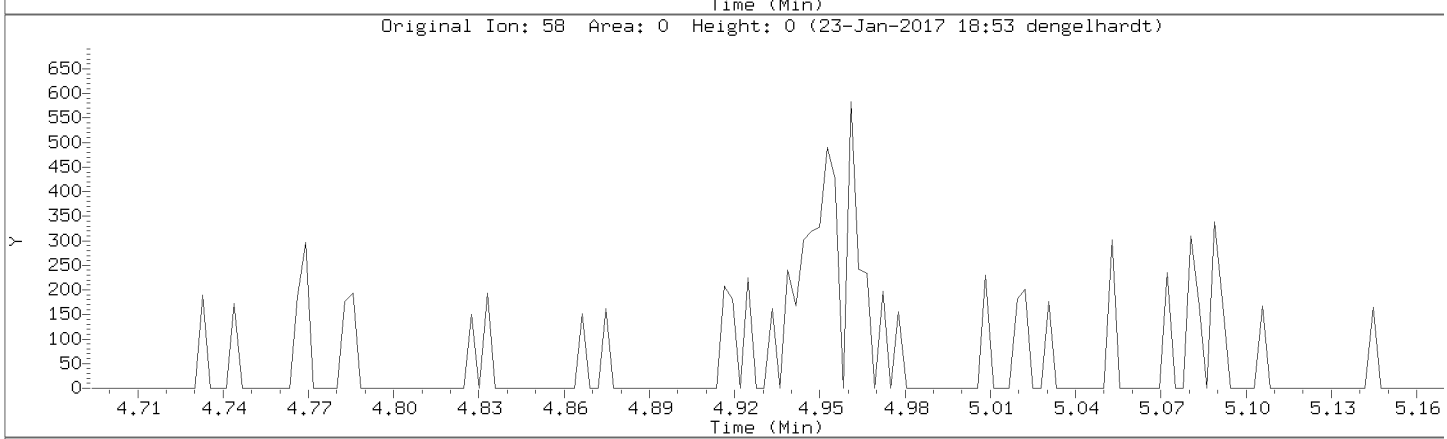
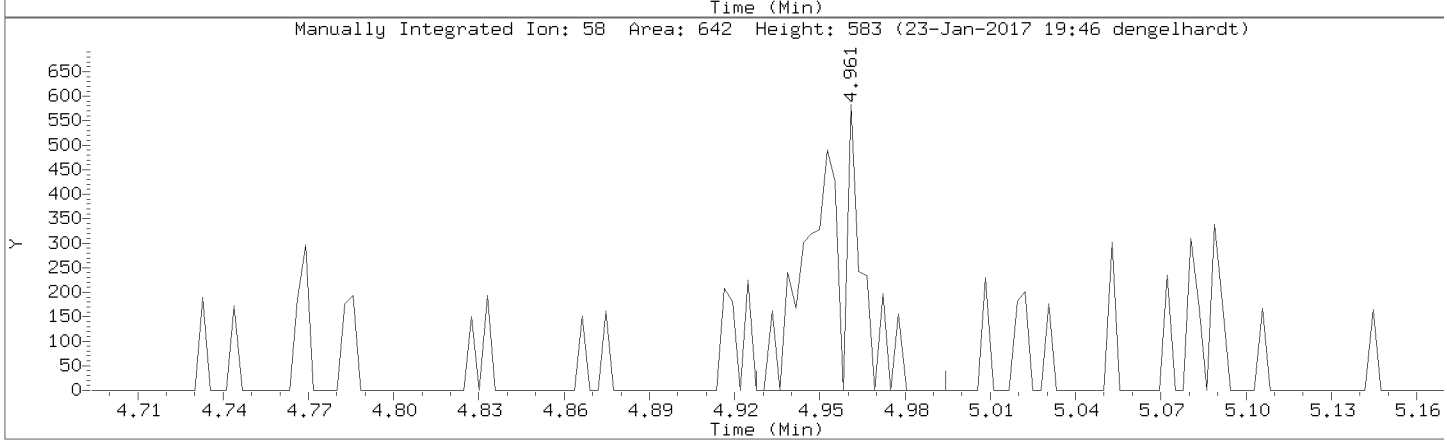
Lab Sample ID: 8260-CAL2

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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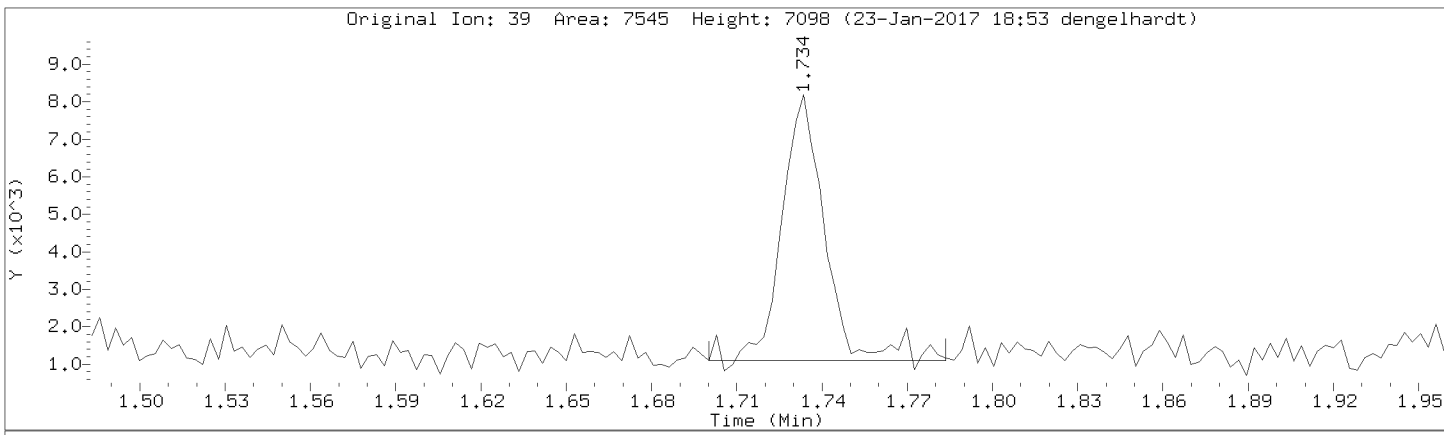
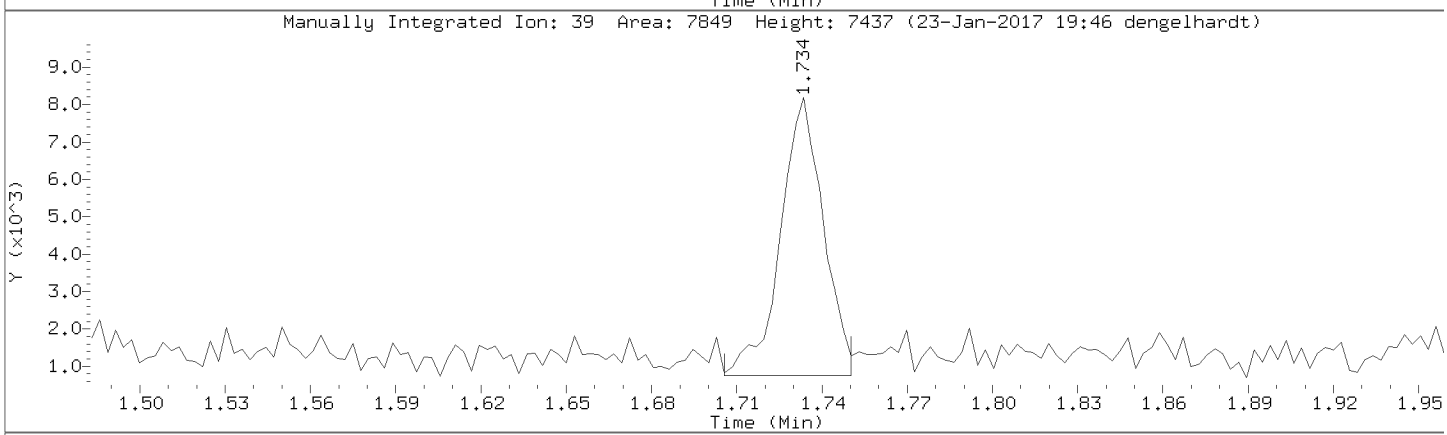
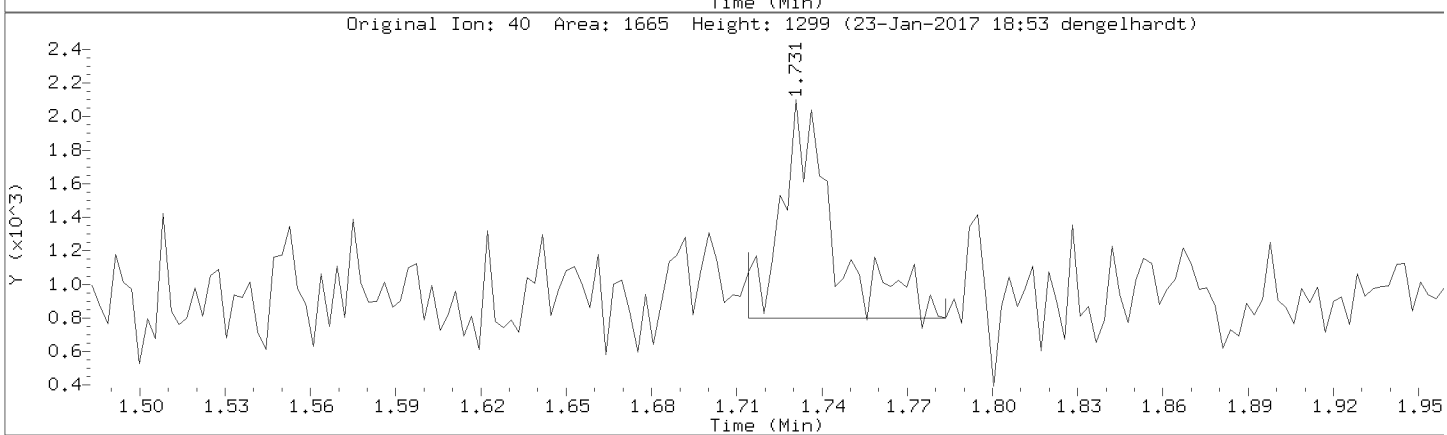
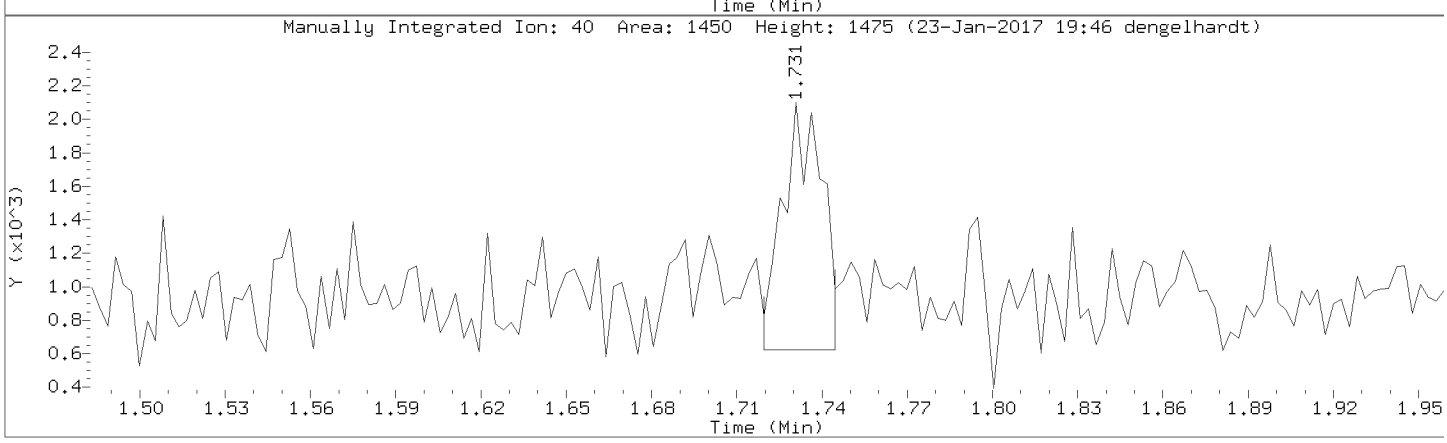
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile Review Code: LT
CAS Number: 75-05-8









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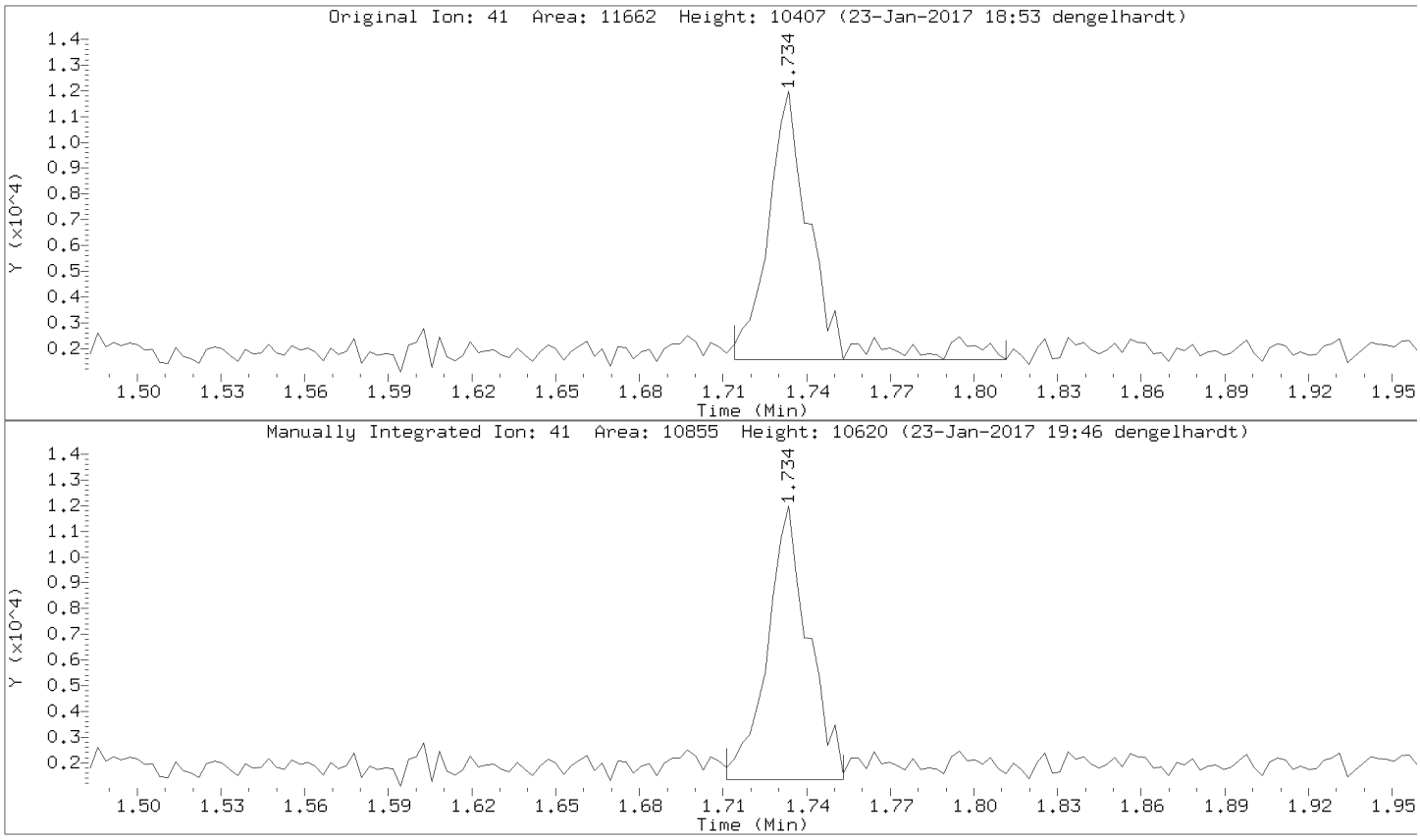
Lab Sample ID: 8260-CAL2



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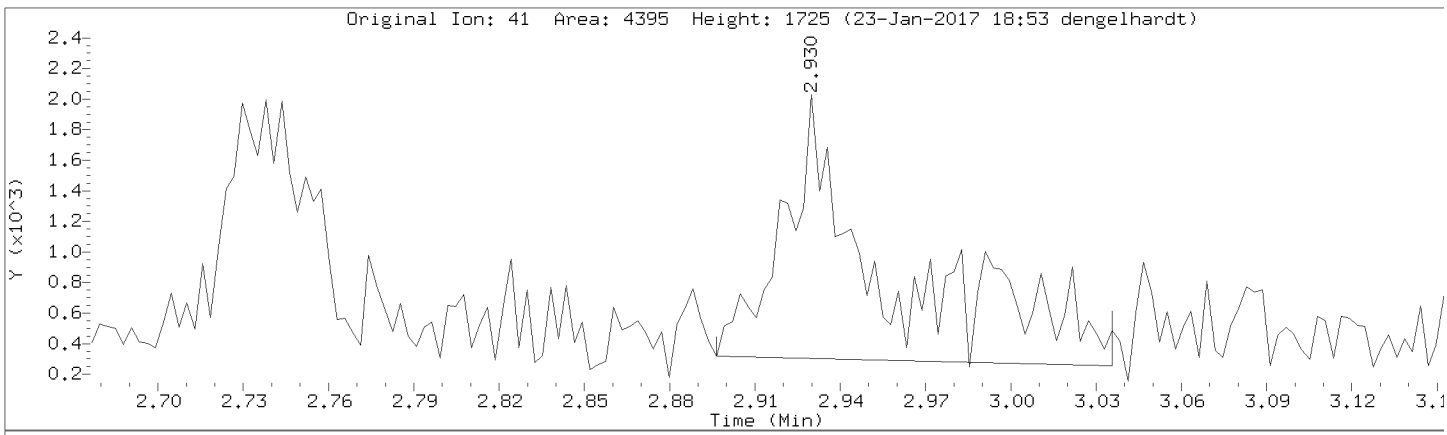
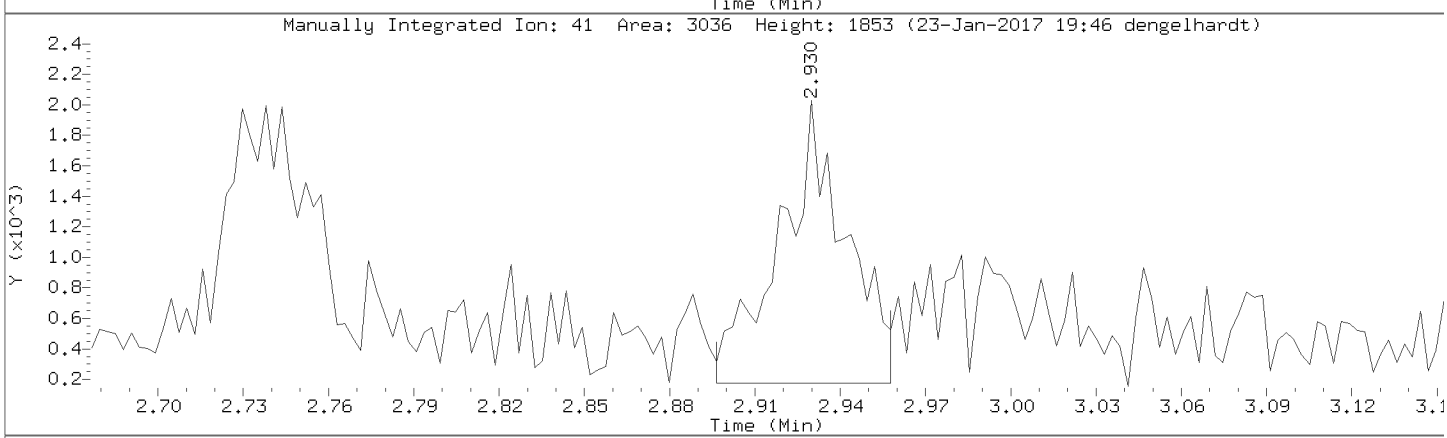
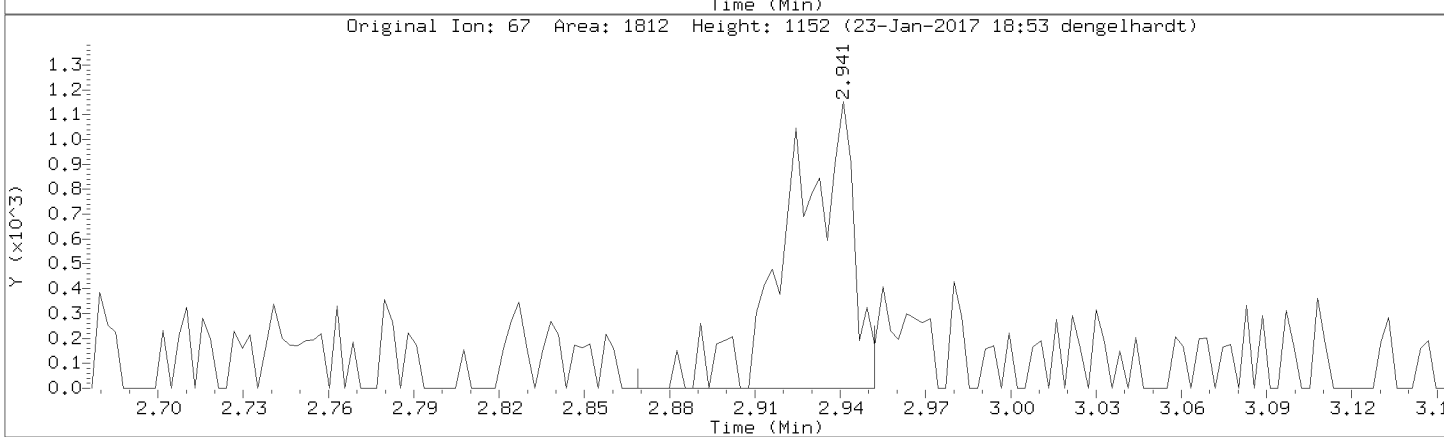
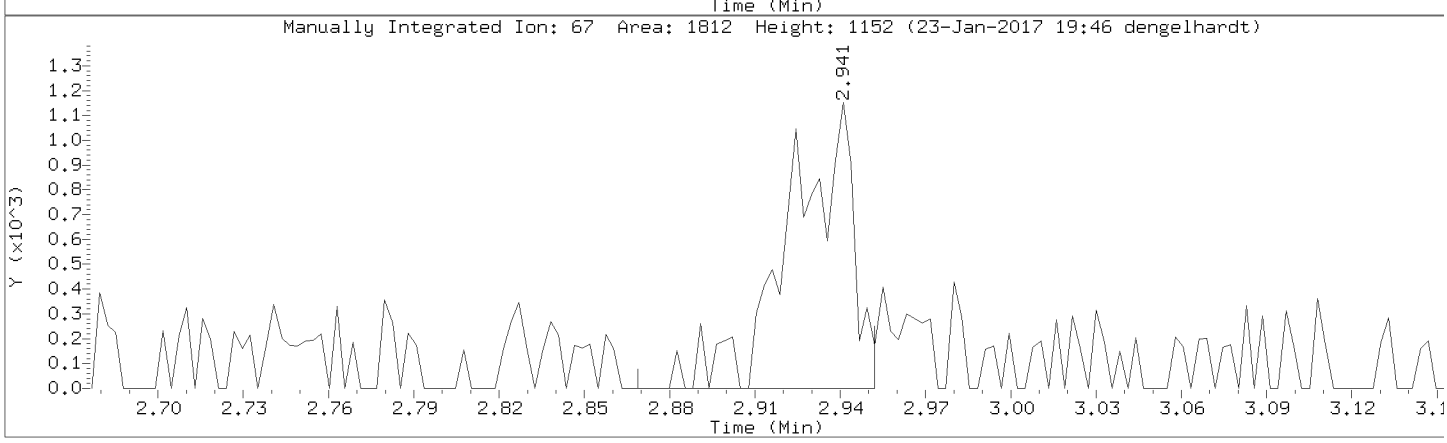
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7









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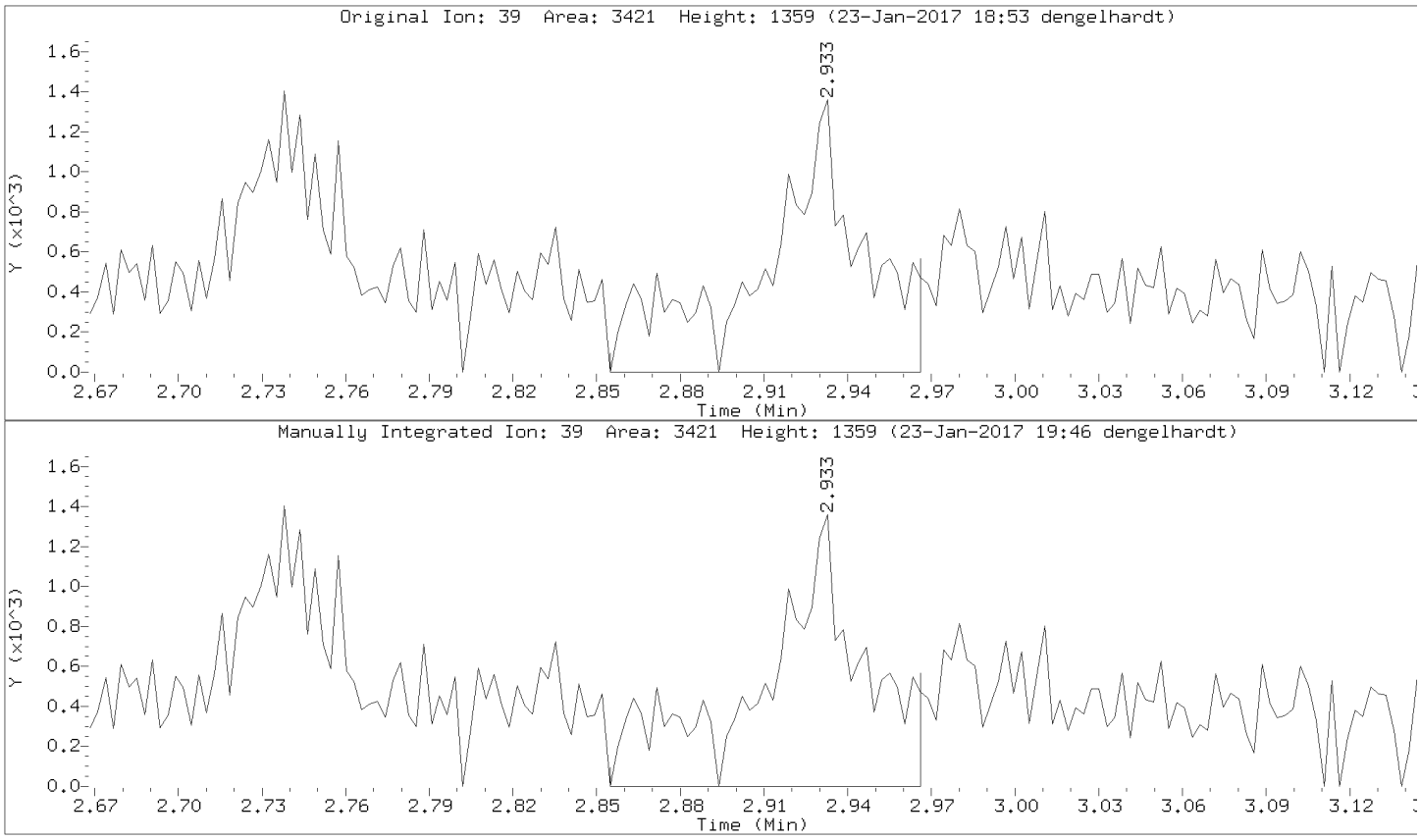
Lab Sample ID: 8260-CAL2



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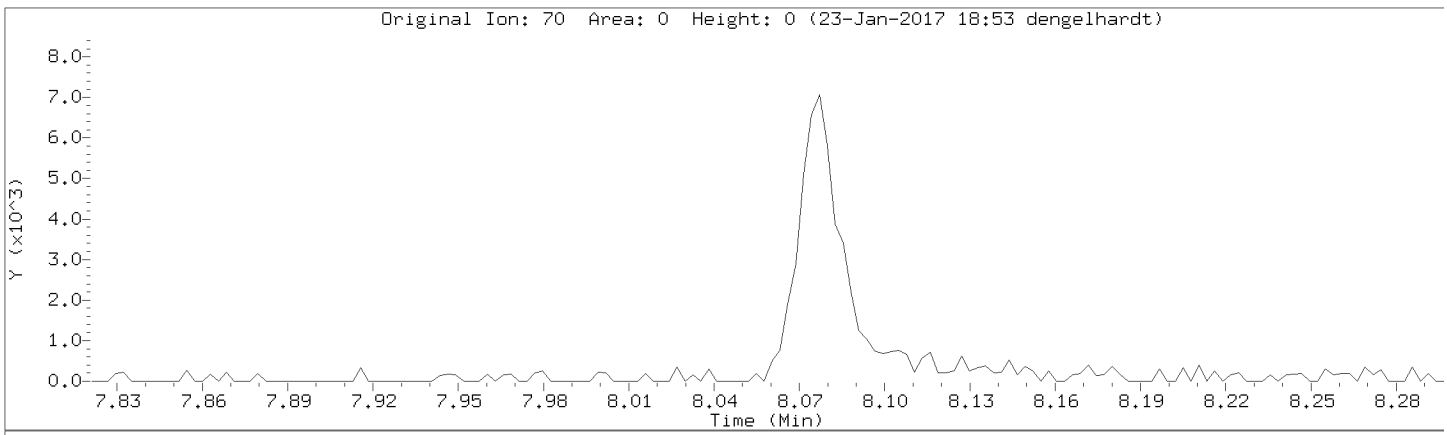
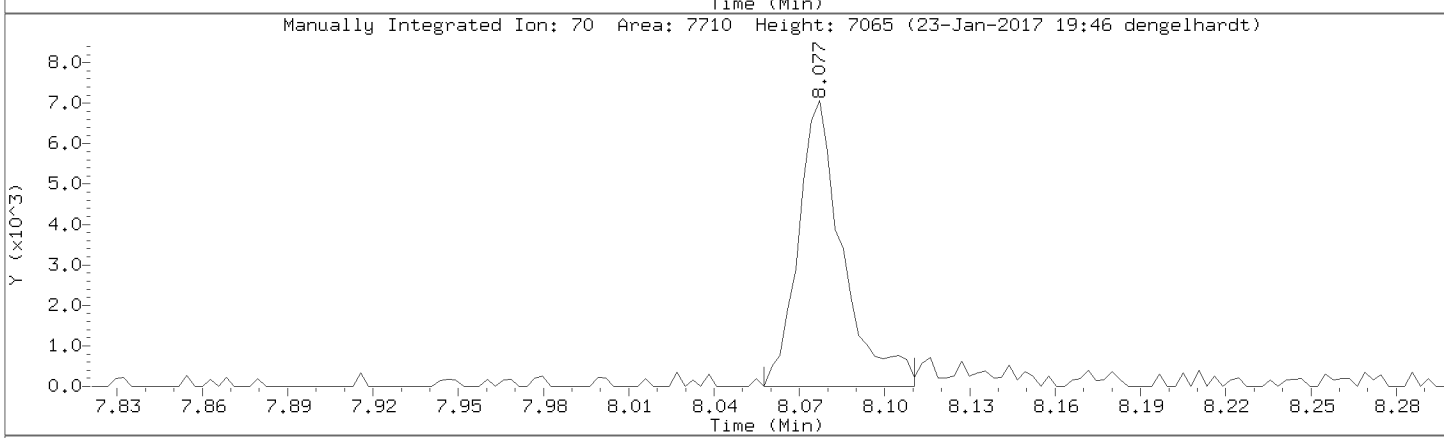
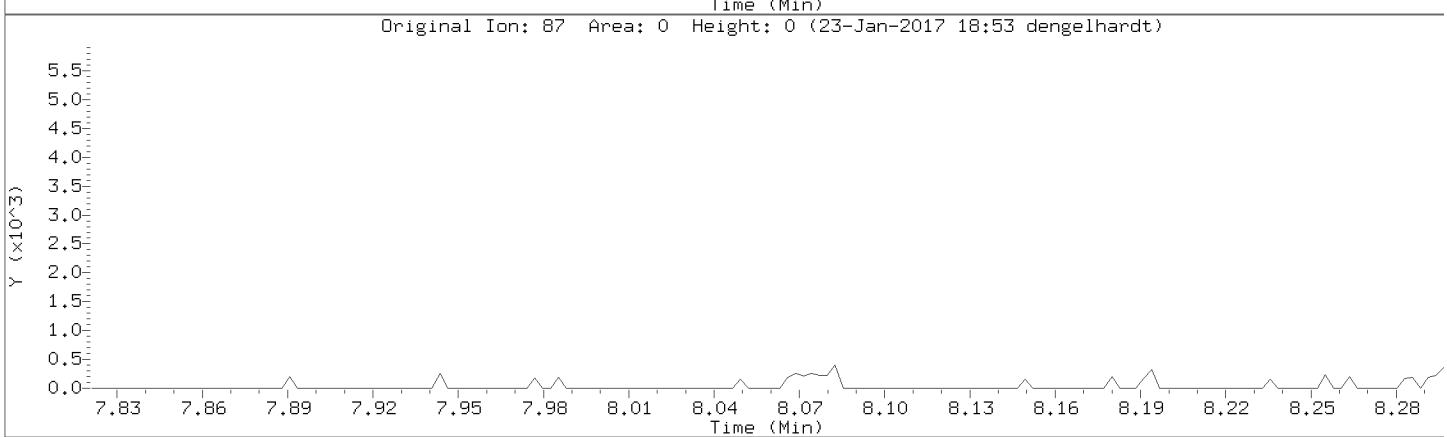
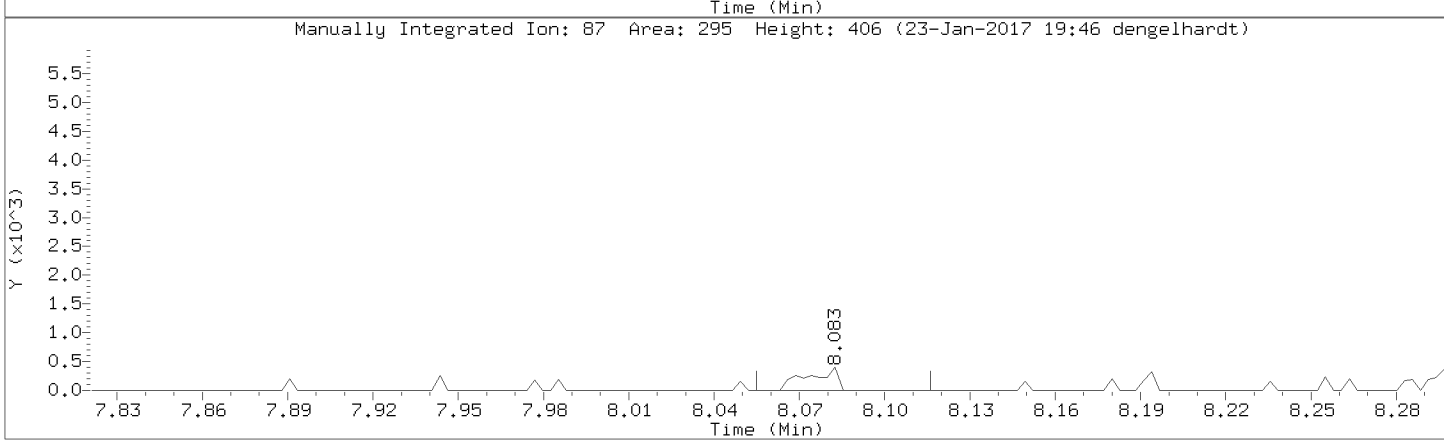
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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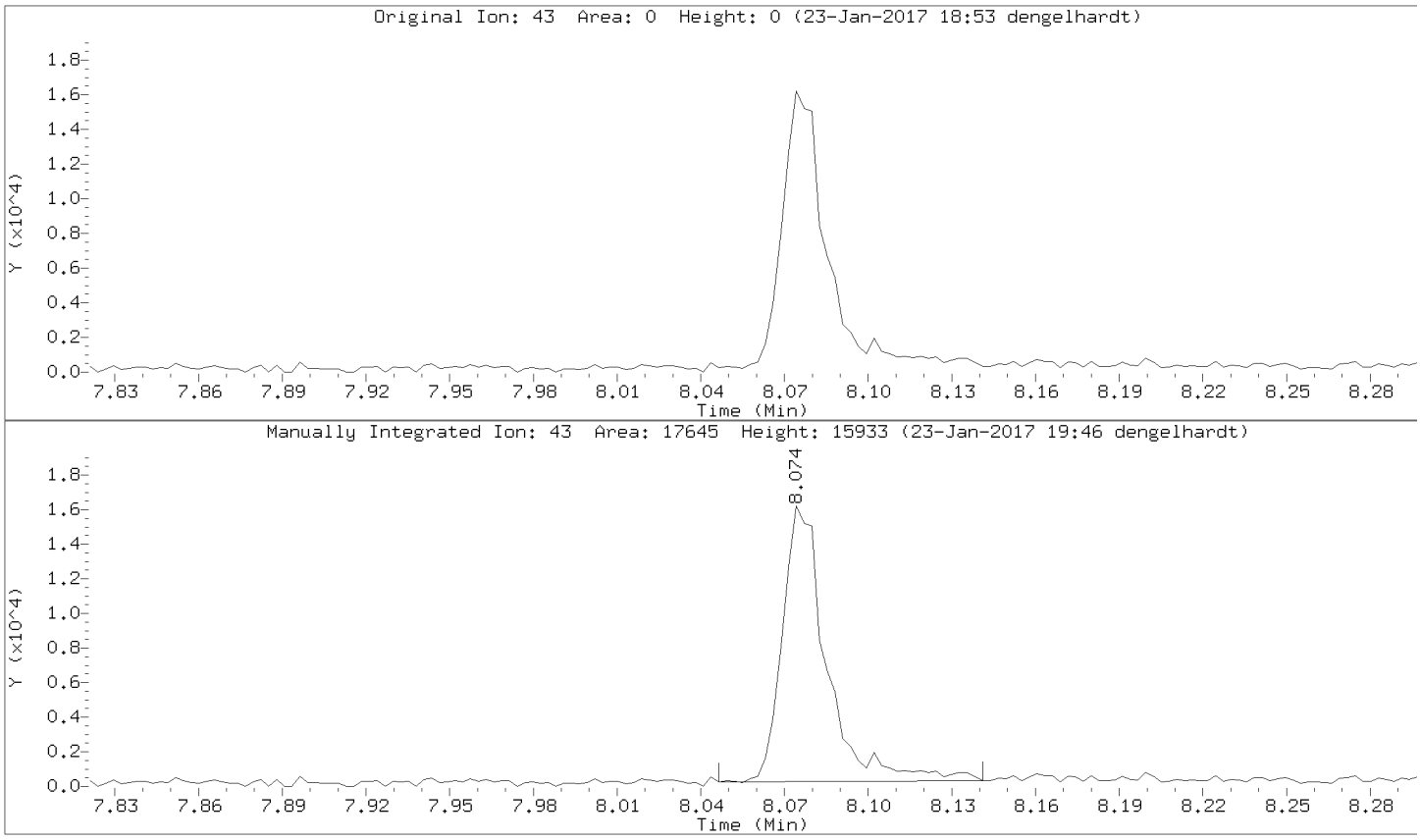
Lab Sample ID: 8260-CAL2



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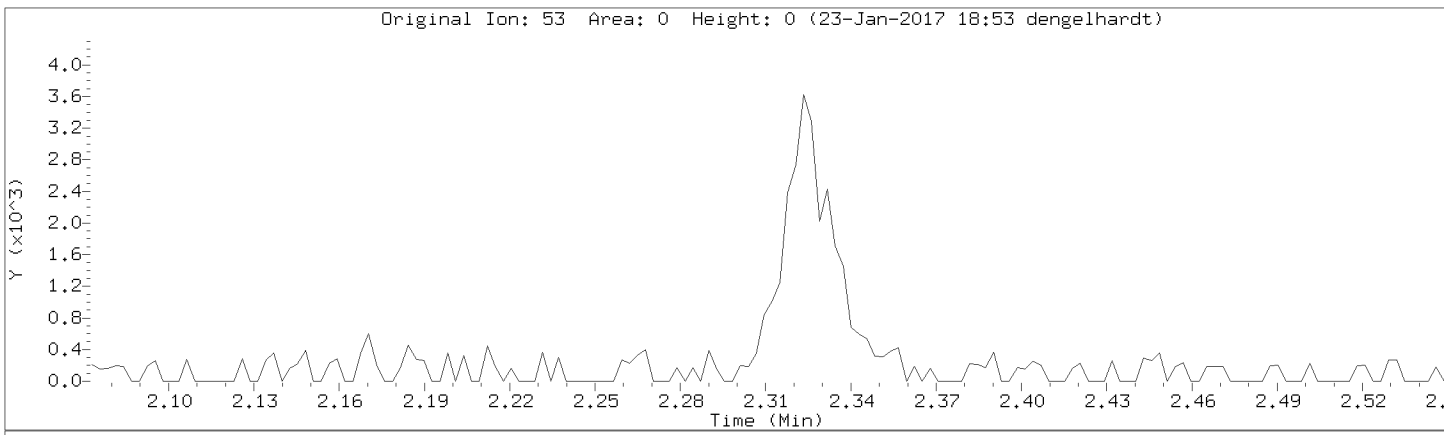
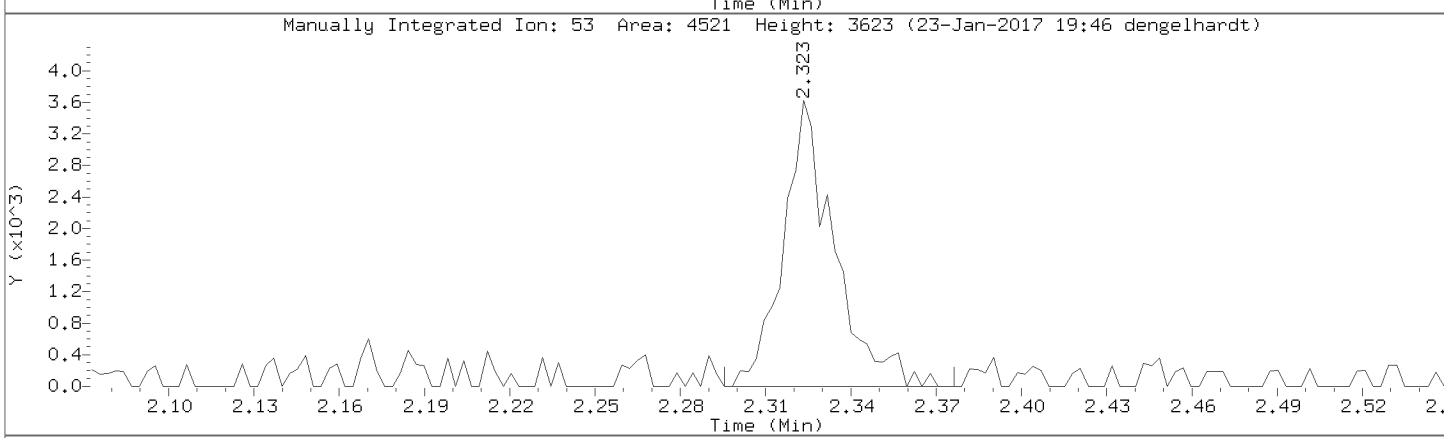
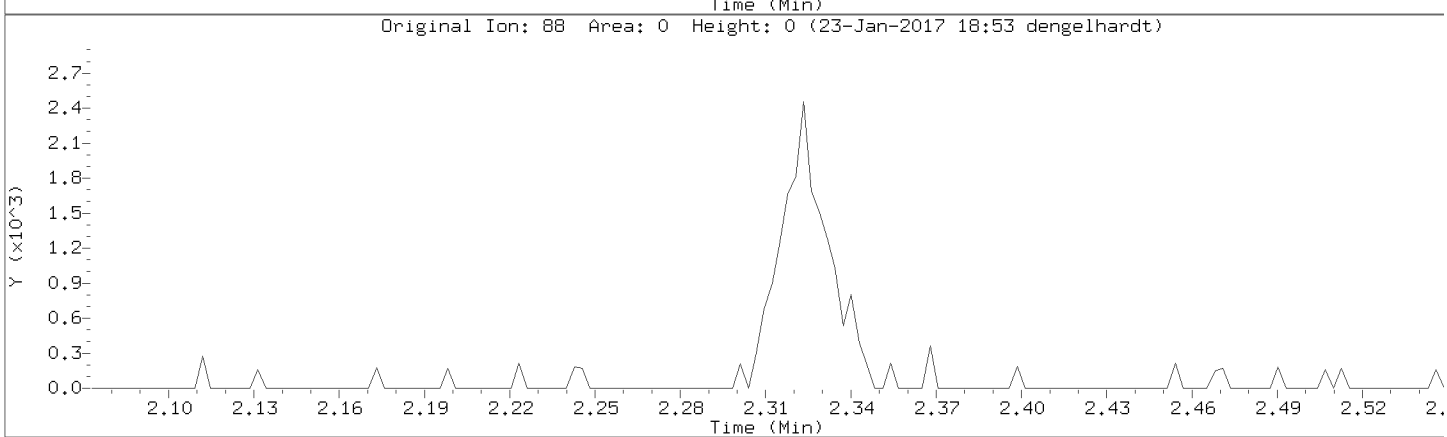
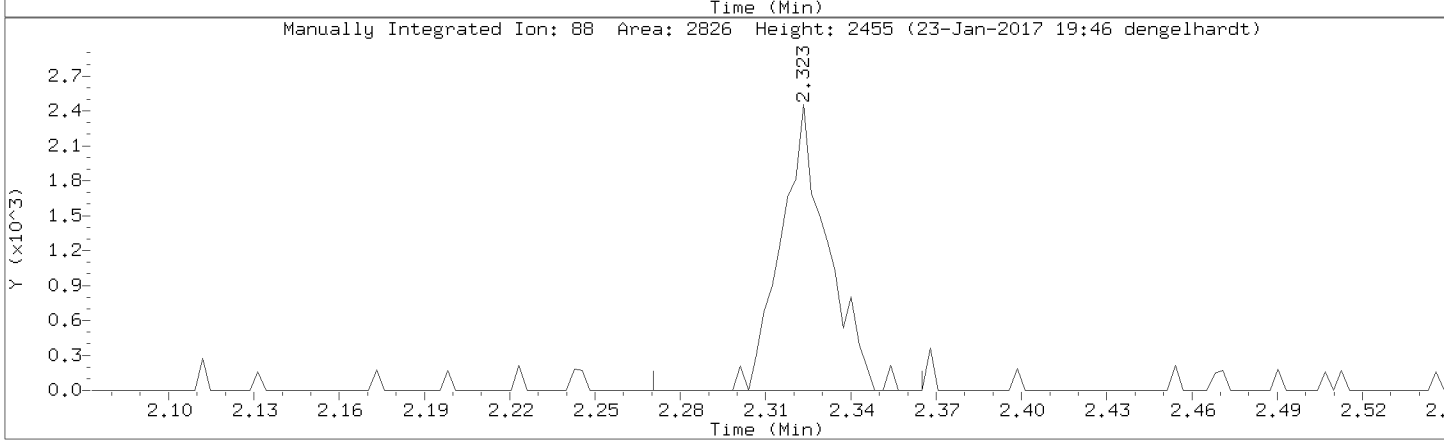
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8









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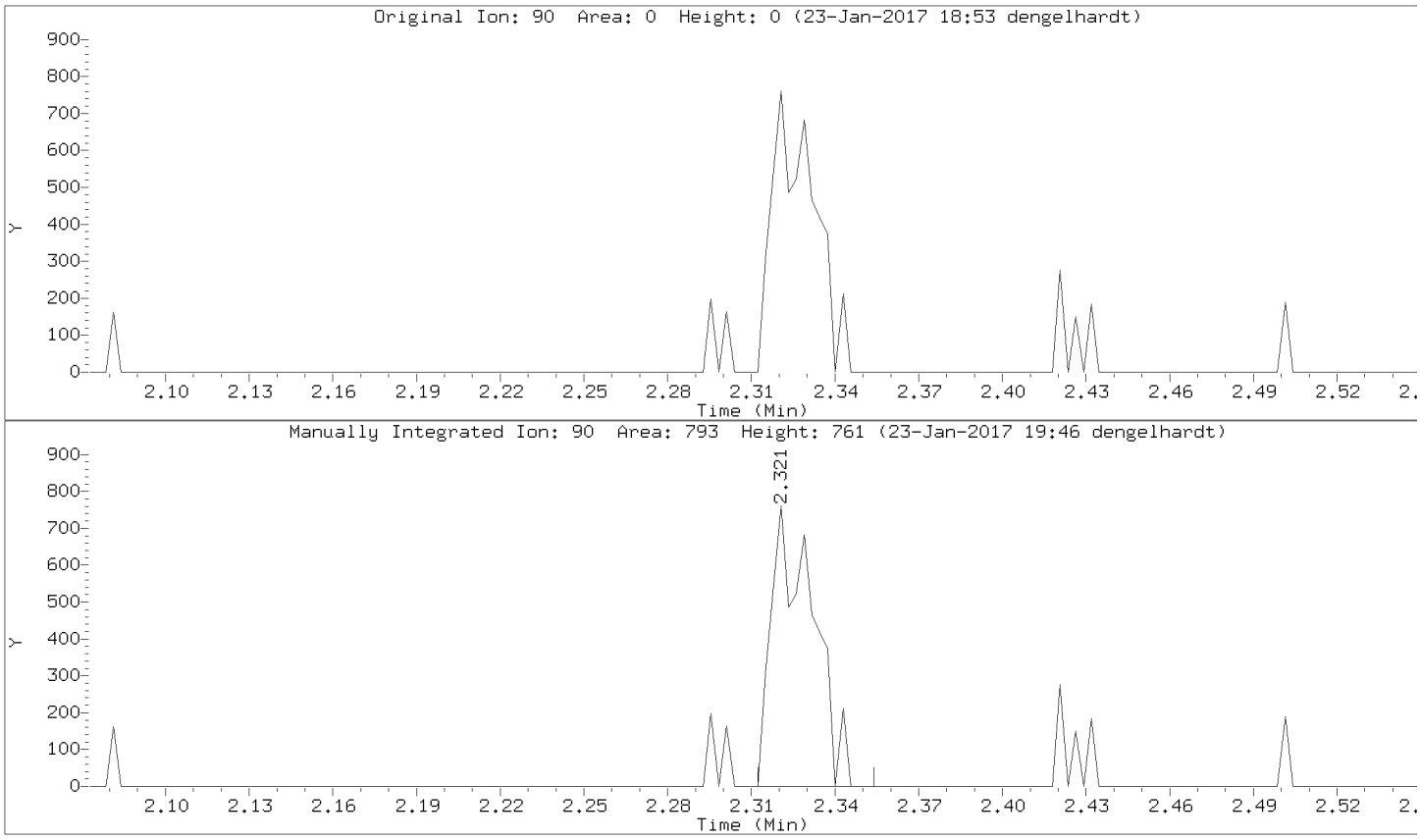
Lab Sample ID: 8260-CAL2



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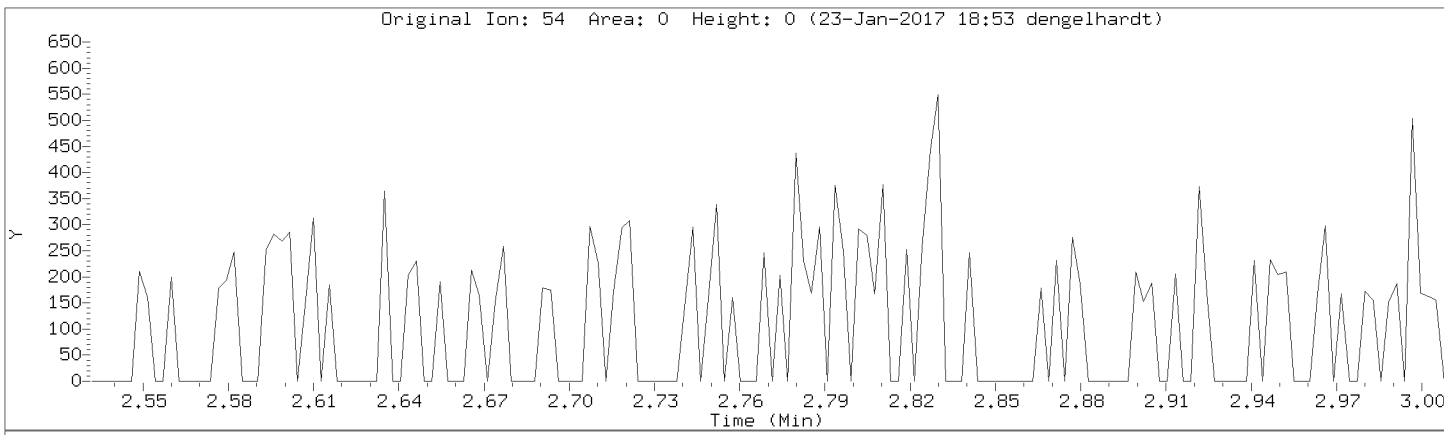
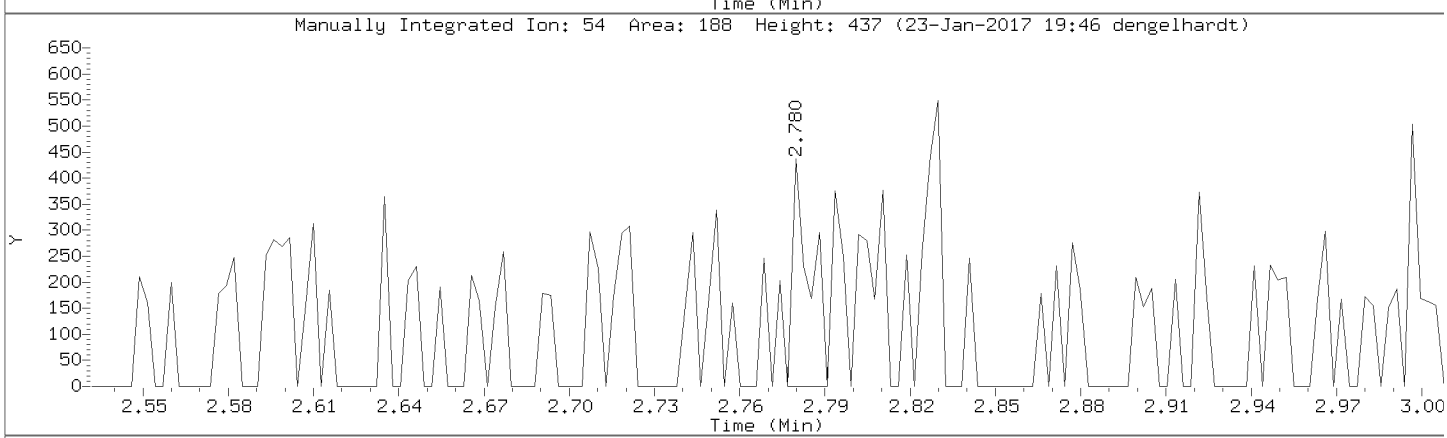
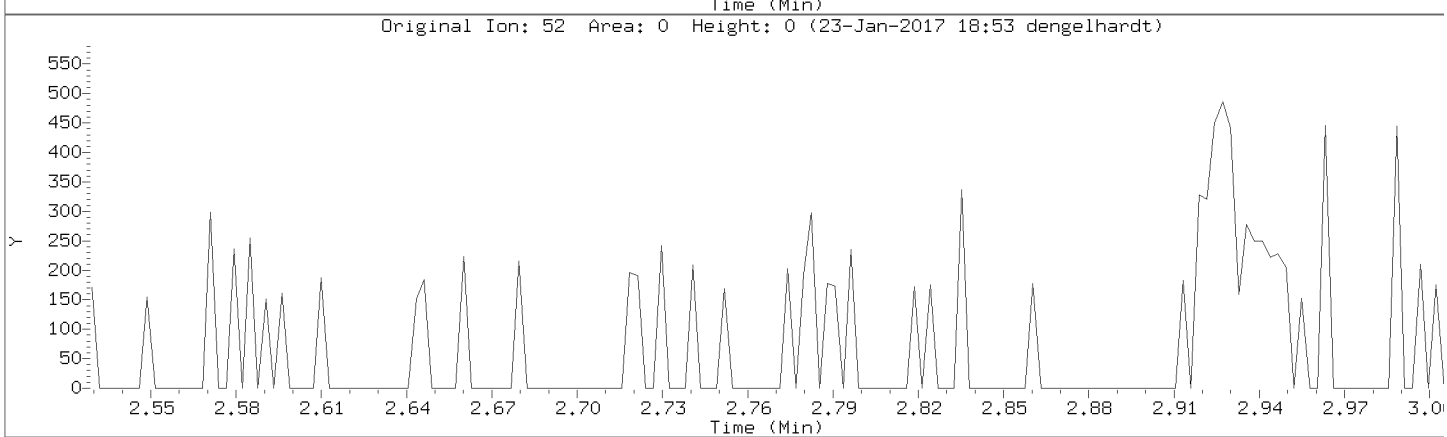
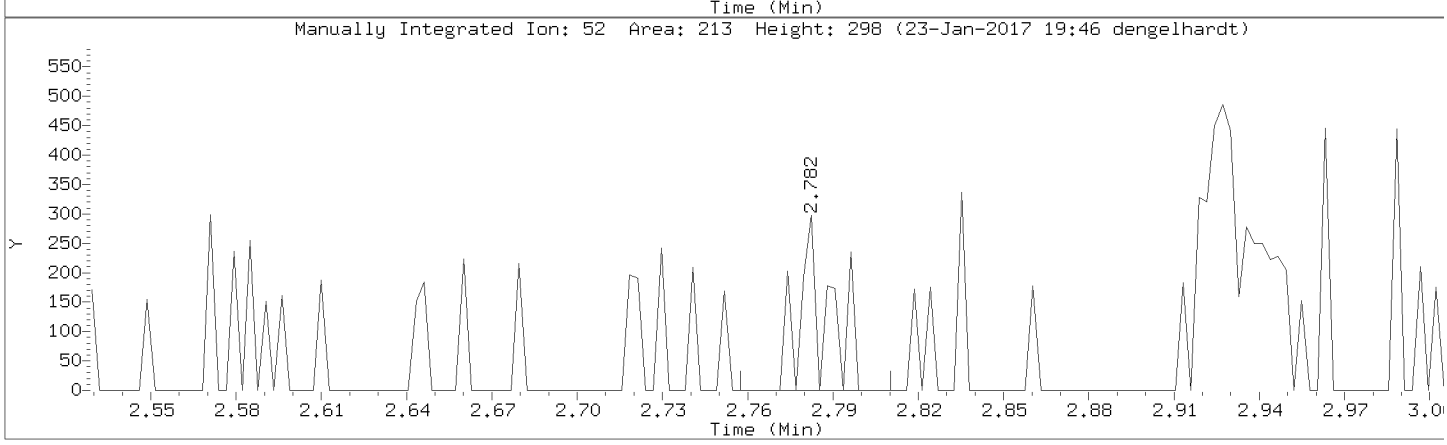
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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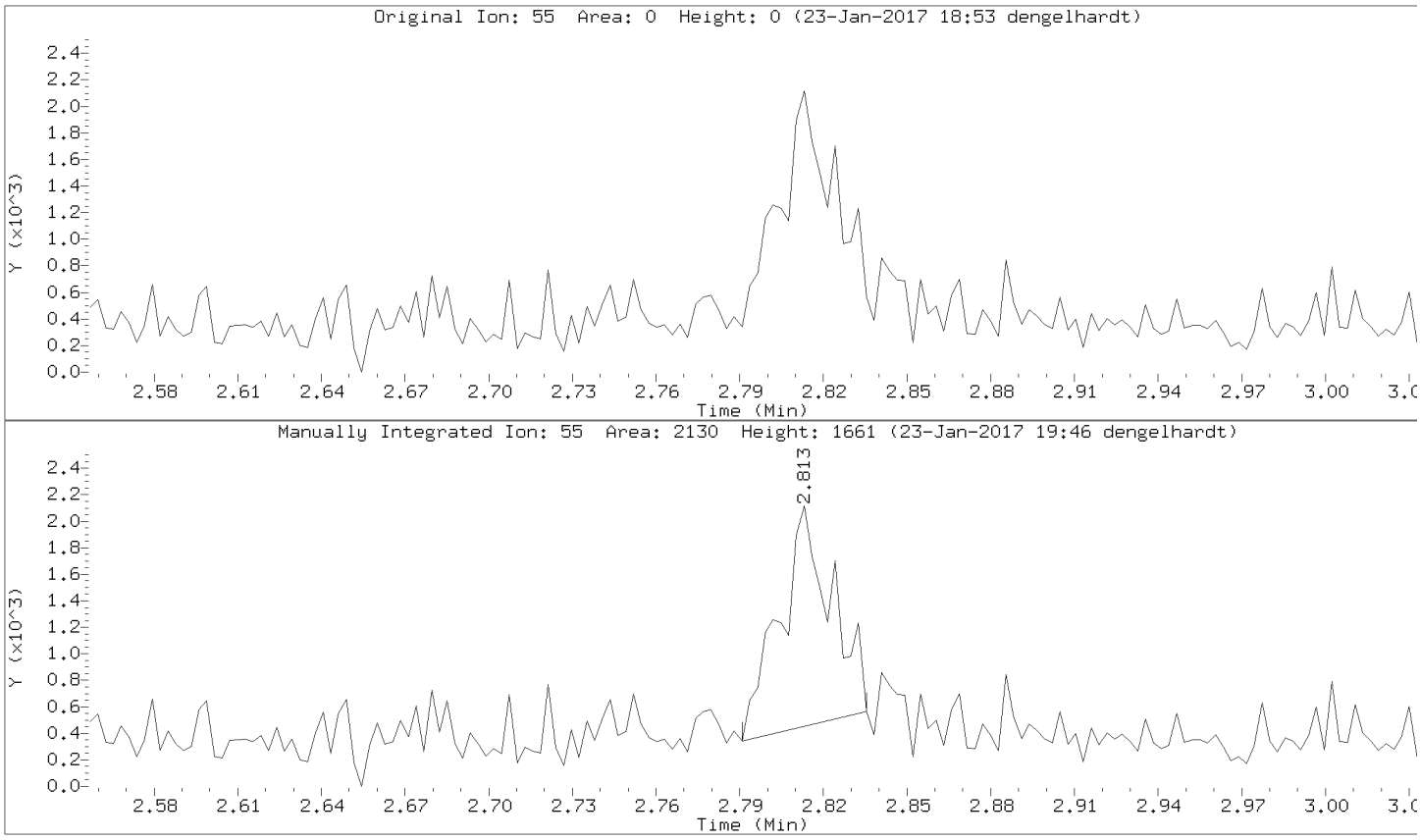
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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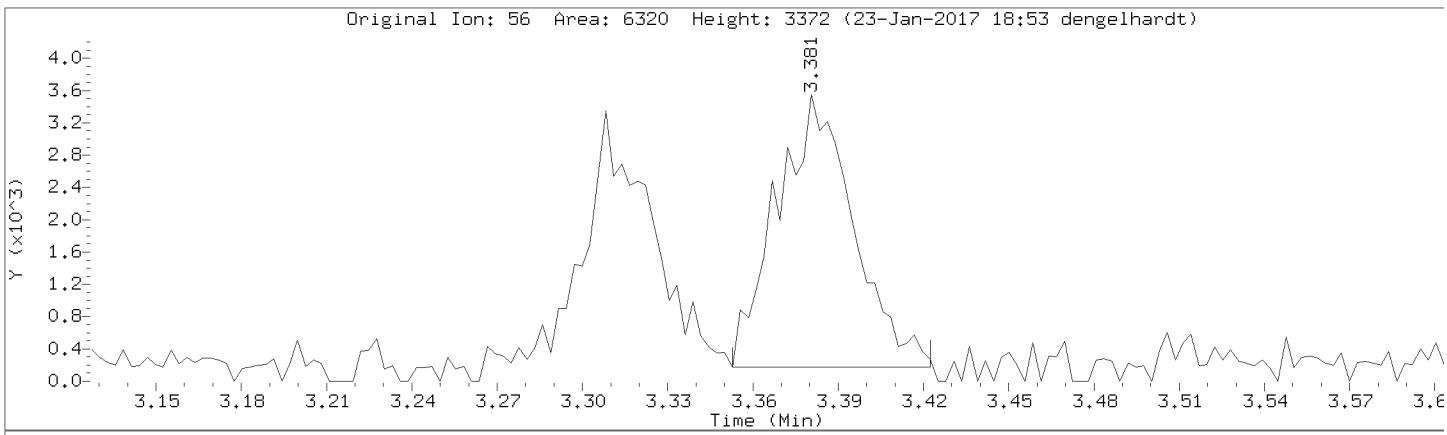
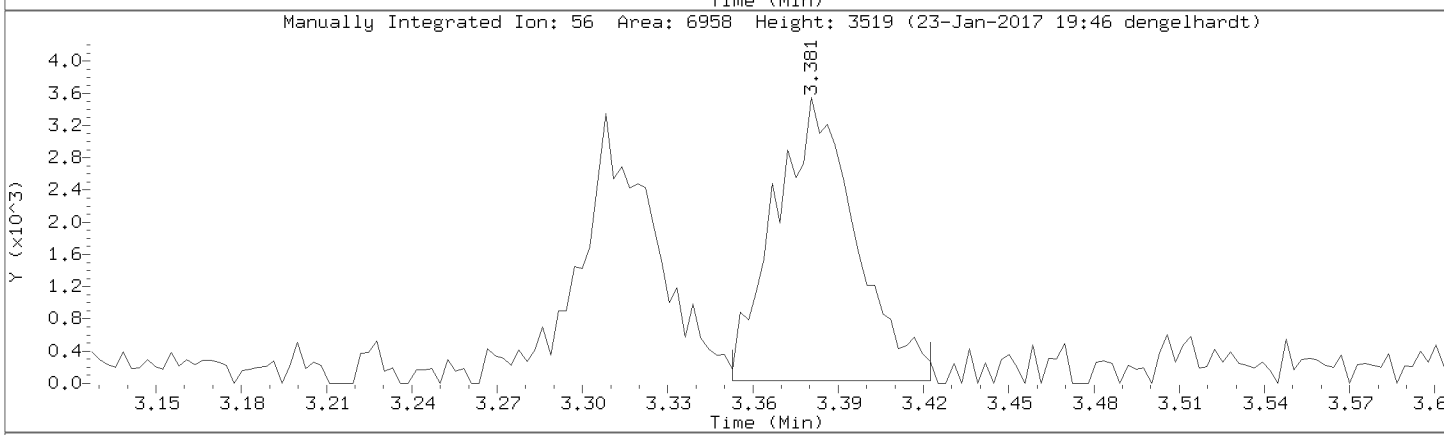
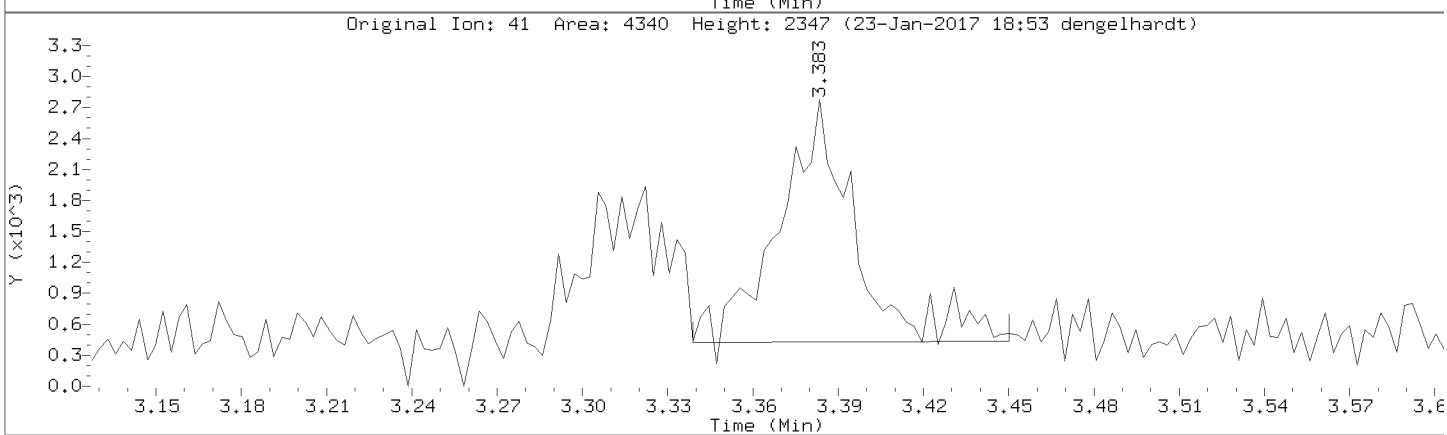
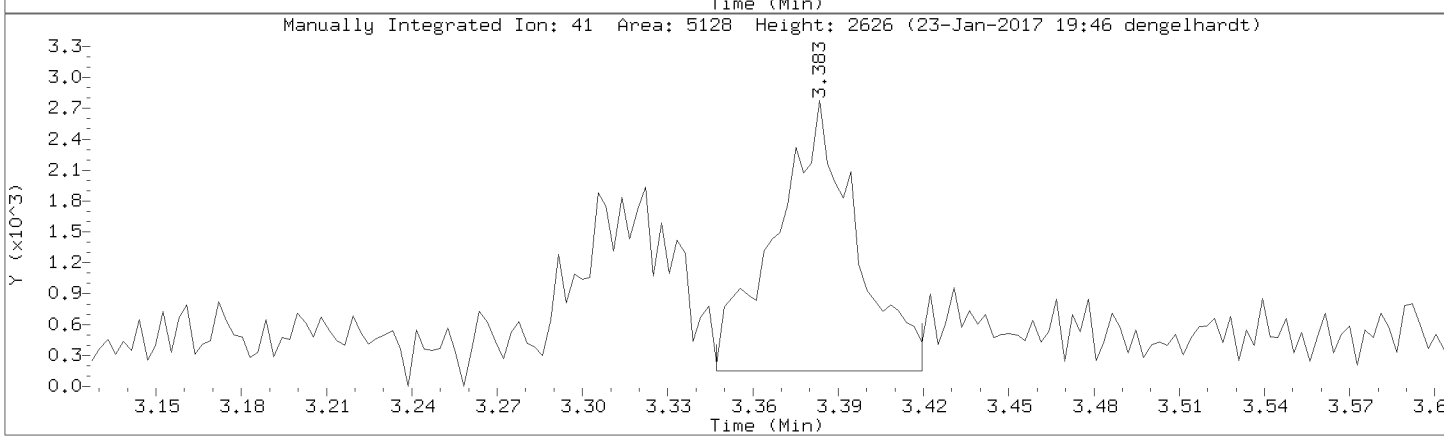
Injection Date: 22-JAN-2017 22:27
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: n-butyl chloride Review Code: LT
CAS Number: 109-69-3









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Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a03cal3.d
Lab Smp Id: 8260-CAL3 Client Smp ID: 8260-CAL3
Inj Date : 22-JAN-2017 23:00
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal3,140428:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	5067	2.00000	2.26(M)	
2 Chloromethane	50	0.951	0.952	(0.234)	5257	2.00000	1.78(M)	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	6423	2.00000	2.20(M)	GT
4 Bromomethane	94	1.141	1.138	(0.281)	4790	2.00000	1.44(QM)	
5 Chloroethane	64	1.185	1.182	(0.292)	4288	2.00000	2.00(M)	GT
6 Trichlorofluoromethane	101	1.299	1.294	(0.320)	8145	2.00000	2.34	
7 Diethyl ether	74	1.419	1.416	(0.349)	3558	2.00000	1.53	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	7079	2.00000	1.30	
9 Acrolein	56	1.488	1.489	(0.366)	16821	40.0000	39.9	
10 1,1,2trichlorotrifluoroethane	101	1.541	1.539	(0.379)	5437	2.00000	1.51	
11 1,1-Dichloroethene	96	1.544	1.541	(0.380)	5107	2.00000	1.25(Q)	
12 Acetone	43	1.555	1.555	(0.383)	10995	10.0000	8.01	
13 Iodomethane	142	1.628	1.628	(0.400)	8821	4.00000	3.48	
14 Carbon Disulfide	76	1.675	1.672	(0.412)	14762	2.00000	1.65(M)	LT
15 Methyl Acetate	43	1.719	1.719	(0.423)	7408	2.00000	1.43(M)	GT
16 Acetonitrile	39	1.733	1.733	(0.426)	12692	2.00000	1.49	
17 allyl chloride	41	1.733	1.733	(0.426)	17432	4.00000	2.96	
18 Methylene Chloride	84	1.803	1.806	(0.444)	6062	2.00000	1.27	
19 tert-Butyl Alcohol	59	1.856	1.853	(0.457)	1795	4.00000	2.11(QM)	
20 Acrylonitrile	53	1.942	1.942	(0.478)	10770	8.00000	5.50	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	15958	2.00000	1.52	
22 1,2-Dichloroethene (trans)	96	1.975	1.973	(0.486)	4979	2.00000	1.25	
23 n-Hexane	57	2.153	2.148	(0.530)	7513	2.00000	1.43	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.265	2.262	(0.557)	46116	8.00000	8.76	
25 1,1-Dichloroethane	63	2.267	2.270	(0.558)	9161	2.00000	1.66	
26 Chloroprene	53	2.329	2.323	(0.573)	8229	2.00000	1.63	
27 Ethyl acetate	88	2.763	2.763	(0.680)	2576	16.0000	12.5(Q)	
28 2-Butanone	72	2.724	2.724	(0.670)	3918	10.0000	7.83(QM)	NI
29 1,2-Dichloroethene (cis)	96	2.732	2.735	(0.672)	6035	2.00000	1.39	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	8673	2.00000	1.48	
31 Propionitrile	54	2.782	2.782	(0.684)	1285	2.00000	2.32(QM)	NI
32 Methacrylonitrile	41	2.924	2.927	(0.719)	5895	2.00000	1.93(QM)	WP
33 Bromochloromethane	49	2.957	2.963	(0.728)	4445	2.00000	1.58	
34 Tetrahydrofuran	42	2.991	2.983	(0.736)	2769	2.00000	1.41(M)	NI
35 Chloroform	83	3.063	3.069	(0.754)	8787	2.00000	1.68	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	104872	50.0000	49.3	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.796)	9128	2.00000	1.70	
38 cyclohexane	56	3.311	3.314	(0.815)	8768	2.00000	1.18	
150 n-butyl chloride	56	3.383	3.378	(0.832)	11877	2.00000	1.46	
39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	7702	2.00000	1.64	
40 1,1-Dichloropropene	75	3.417	3.419	(0.841)	7816	2.00000	1.83	
41 Benzene	78	3.656	3.659	(0.899)	20629	2.00000	1.53(M)	WP
42 1,2-Dichloroethane	62	3.748	3.748	(0.922)	7466	2.00000	1.67(M)	NI
43 2,2,4-Trimethylpentane	57	3.823	3.826	(0.940)	13673	2.00000	1.34	
44 Isobutyl alcohol	43	3.781	3.770	(0.930)	48232	2.00000	1.74	
* 45 Fluorobenzene	96	4.065	4.068	(1.000)	419243	50.0000		
46 isopropyl acetate	61	3.781	3.773	(0.930)	10093	8.00000	6.49(Q)	
47 Trichloroethene	95	4.535	4.527	(1.116)	5838	2.00000	1.54	
48 Methylcyclohexane	55	4.794	4.794	(1.179)	6693	2.00000	1.50(M)	LT
49 1,2-Dichloropropane	63	4.838	4.847	(1.190)	5649	2.00000	1.76(M)	NI
50 1,4-Dioxane	88	4.955	4.947	(1.219)	1418	40.0000	50.0	
51 Dibromomethane	93	4.938	4.938	(1.215)	3437	2.00000	1.69	
52 Methyl methacrylate	69	4.972	4.961	(1.223)	4335	2.00000	1.55	
53 Bromodichloromethane	83	5.169	5.172	(1.272)	6724	2.00000	1.57(M)	NI
54 2-Chloroethyl vinyl ether	63	5.528	5.531	(0.750)	7939	4.00000	3.51	
55 cis-1,3-Dichloropropene	75	5.676	5.673	(0.770)	8380	2.00000	1.66	
56 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	25304	10.0000	6.98	
$ 57 Toluene-d8	98	5.948	5.948	(0.807)	401224	50.0000	50.5	
58 Toluene	91	6.026	6.024	(0.818)	21039	2.00000	1.36	
59 trans-1,3-Dichloropropene	75	6.321	6.316	(0.858)	7286	2.00000	1.58	
60 Ethyl Methacrylate	69	6.413	6.405	(0.870)	6780	2.00000	1.39(M)	NI
61 1,1,2-Trichloroethane	83	6.510	6.513	(0.884)	4236	2.00000	1.82	
62 Tetrachloroethene	166	6.563	6.561	(0.891)	6866	2.00000	1.57	
63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	8205	2.00000	1.70	
64 2-Hexanone	43	6.750	6.739	(0.916)	17489	10.0000	8.16(M)	GT
65 Dibromochloromethane	129	6.864	6.864	(0.932)	5352	2.00000	1.63	
66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	5051	2.00000	1.77	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	309352	50.0000		
68 Chlorobenzene	112	7.395	7.390	(1.004)	13364	2.00000	1.66	
69 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	4845	2.00000	1.61	
70 Ethylbenzene	106	7.490	7.484	(1.017)	7387	2.00000	1.70	
71 m&p-Xylene	106	7.598	7.598	(1.031)	17404	4.00000	3.17	
72 o-Xylene	106	7.899	7.899	(1.072)	8655	2.00000	1.98(Q)	
73 Styrene	104	7.924	7.918	(1.076)	13102	2.00000	1.66	
74 Bromoform	173	8.057	8.055	(0.883)	4411	2.00000	1.59(M)	NI
75 Isopropylbenzene	105	8.185	8.183	(1.111)	19146	2.00000	1.60	
$ 76 4-Bromofluorobenzene	95	8.311	8.313	(1.128)	138259	50.0000	49.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77	n-amyl acetate	70	8.074	8.071	(1.096)	14814	8.00000	7.10(M)	NI
78	Bromobenzene	77	8.402	8.402	(1.140)	8424	2.00000	1.65	
79	1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	6287	2.00000	1.73(M)	NI
80	trans-1,4-Dichloro-2-butene	53	8.458	8.447	(1.148)	1912	2.00000	1.76(M)	WP
81	1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	1945	2.00000	1.36(Q)	
82	n-Propylbenzene	91	8.489	8.486	(0.931)	20809	2.00000	1.70	
83	2-Chlorotoluene	91	8.544	8.544	(0.937)	14311	2.00000	1.66	
84	1,3,5-Trimethylbenzene	105	8.622	8.619	(0.945)	15875	2.00000	1.62	
85	4-Chlorotoluene	126	8.636	8.633	(0.947)	5282	2.00000	1.77	
86	tert-Butylbenzene	119	8.836	8.834	(0.969)	16721	2.00000	1.62	
87	1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	16859	2.00000	1.62	
88	sec-Butylbenzene	105	8.987	8.984	(0.985)	20246	2.00000	1.76	
89	1,3-Dichlorobenzene	146	9.067	9.065	(0.994)	10764	2.00000	1.82	
90	p-Isopropyltoluene	119	9.092	9.090	(0.997)	16337	2.00000	1.73	
* 91	1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	161484	50.0000		
92	1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	11633	2.00000	1.61	
93	n-Butylbenzene	91	9.362	9.357	(1.027)	12578	2.00000	1.43(M)	WP
94	1,2-Dichlorobenzene	146	9.371	9.365	(1.027)	10093	2.00000	1.69	
95	1,2-Dibromo-3-chloropropane	155	9.874	9.871	(1.083)	1241	2.00000	1.69	
96	1,2,4-Trichlorobenzene	180	10.375	10.372	(1.138)	5589	2.00000	1.56	
97	Hexachlorobutadiene	225	10.456	10.453	(1.146)	2707	2.00000	2.03	
98	Naphthalene	128	10.545	10.534	(1.156)	17045	2.00000	1.56	
99	1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	5662	2.00000	1.68	
100	2,methyl-naphthalene	142	11.235	11.226	(1.232)	8701	2.00000	1.42	
101	1-Methylnaphthalene	142	11.354	11.346	(1.245)	8633	2.00000	1.53	

QC Flag Legend

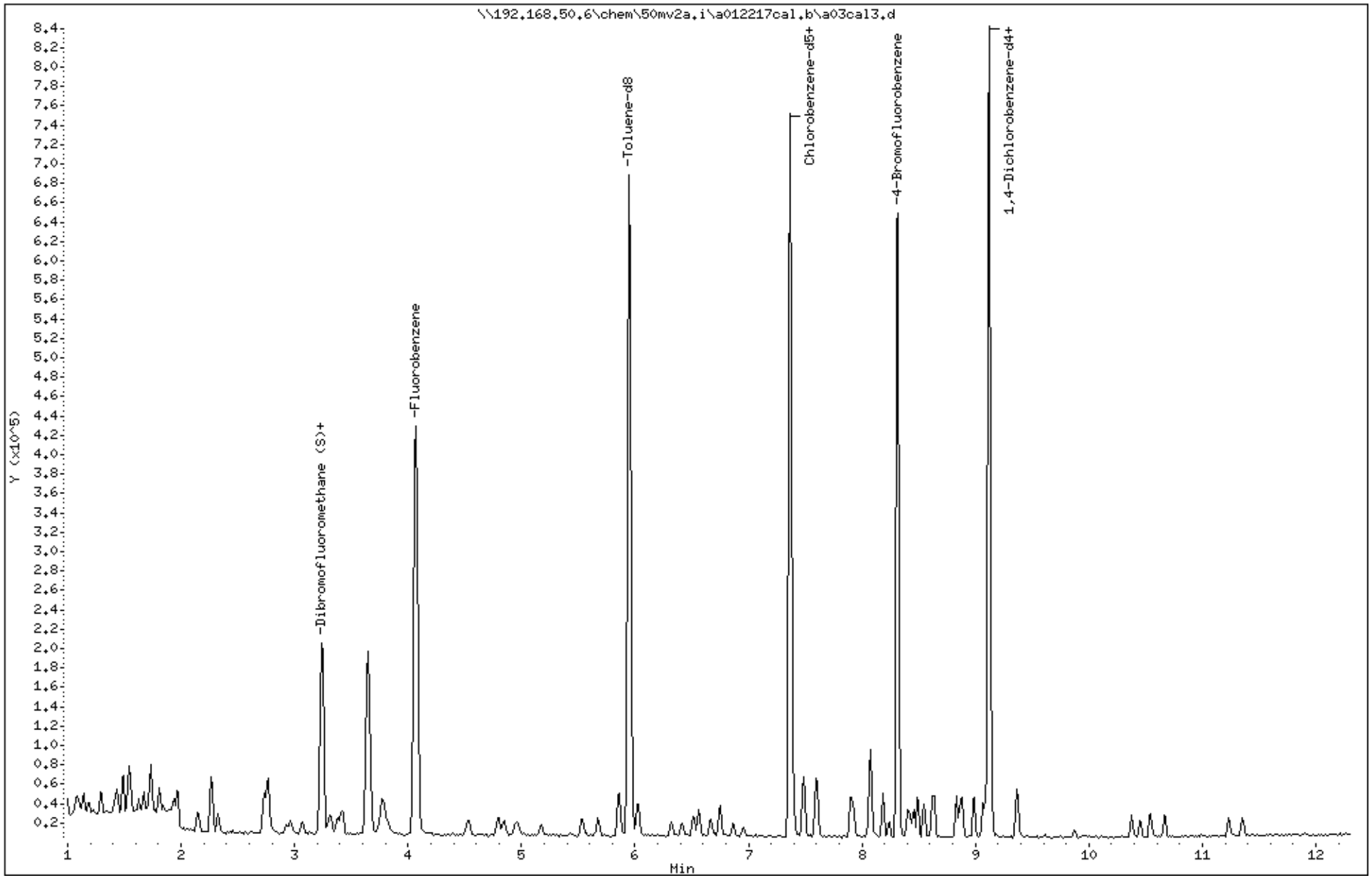
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

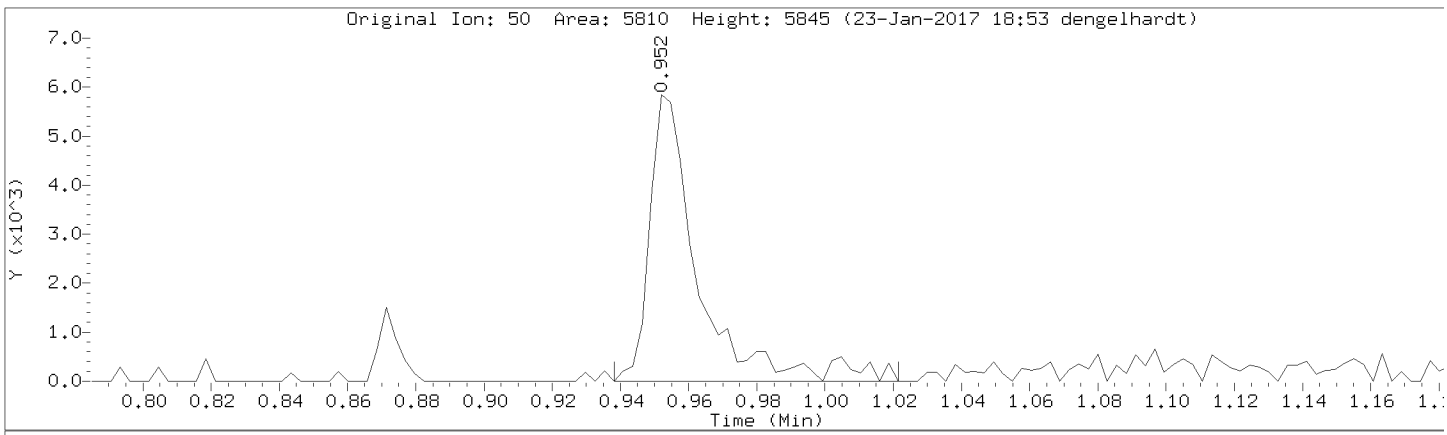
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a03cal3.d
Date : 22-JAN-2017 23:00
Client ID: 8260-CAL3
Sample Info: 8260-CAL3,140428:0
Purge Volume: 5.0
Column phase: DB-624

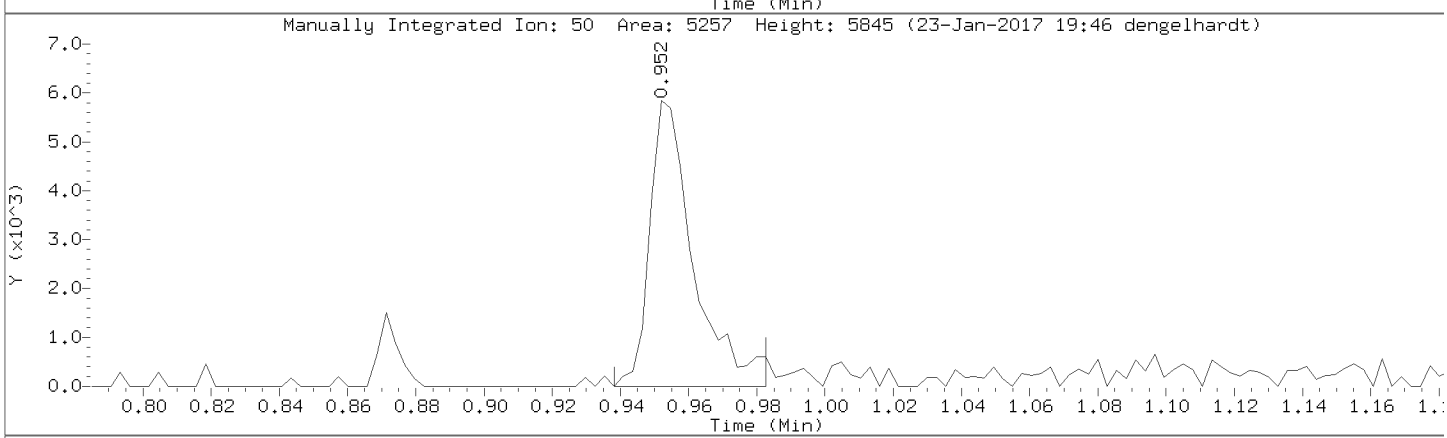
Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18

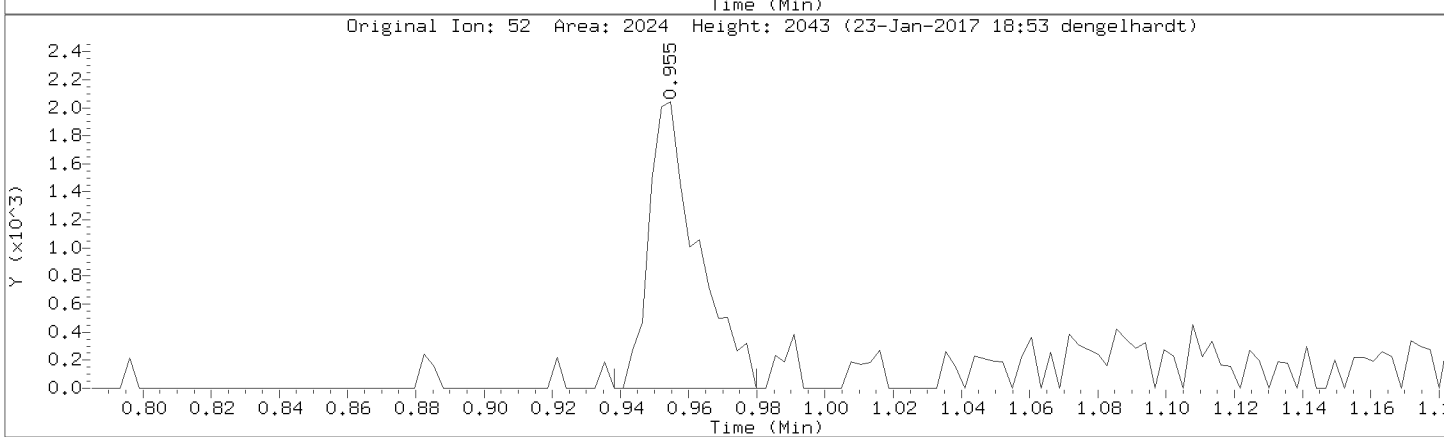


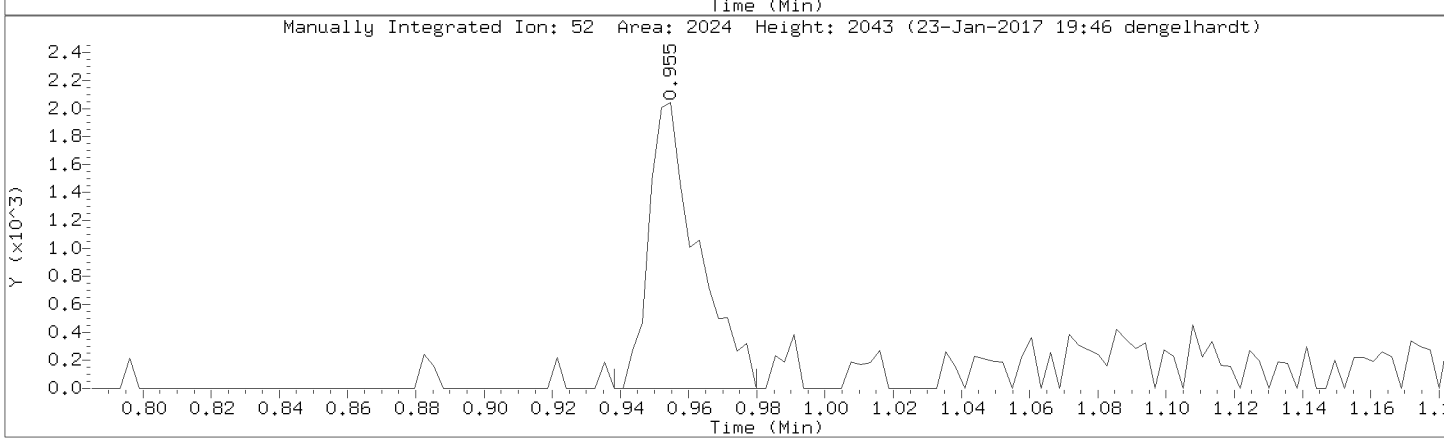
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a03cal3.d
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Chloromethane Review Code:
CAS Number: 74-87-3









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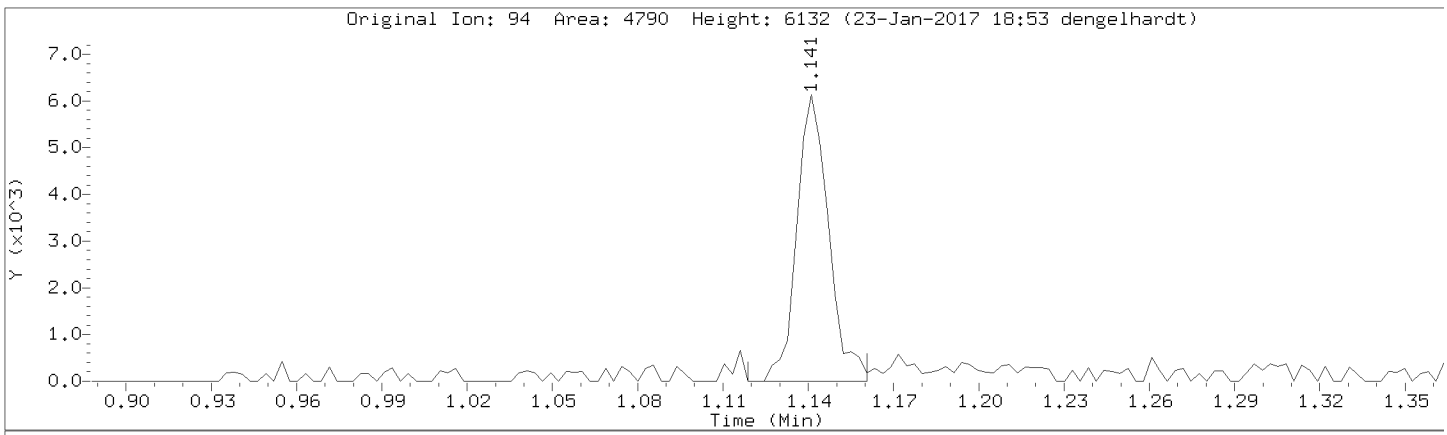
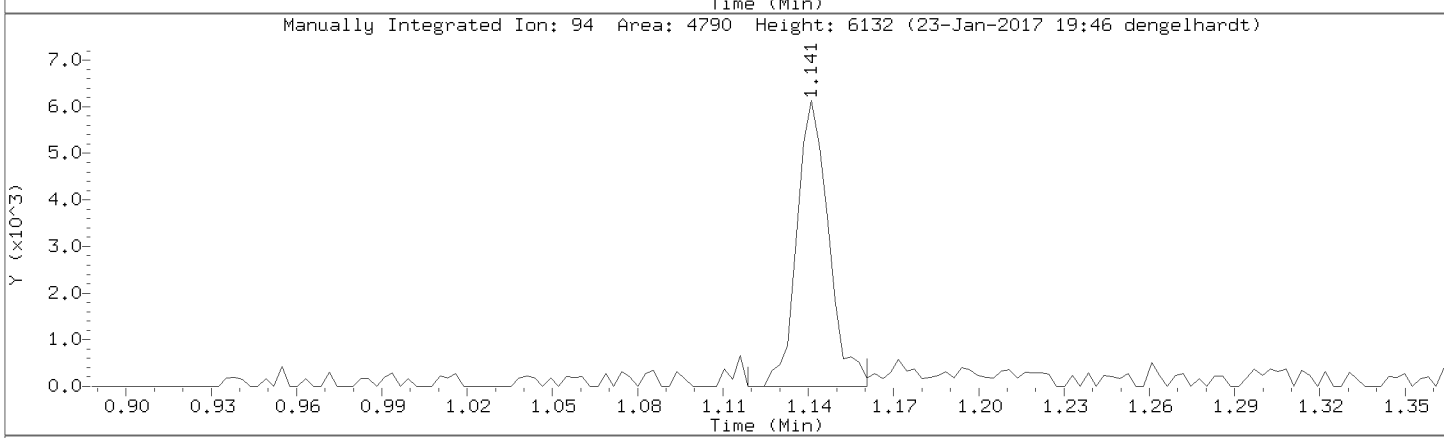
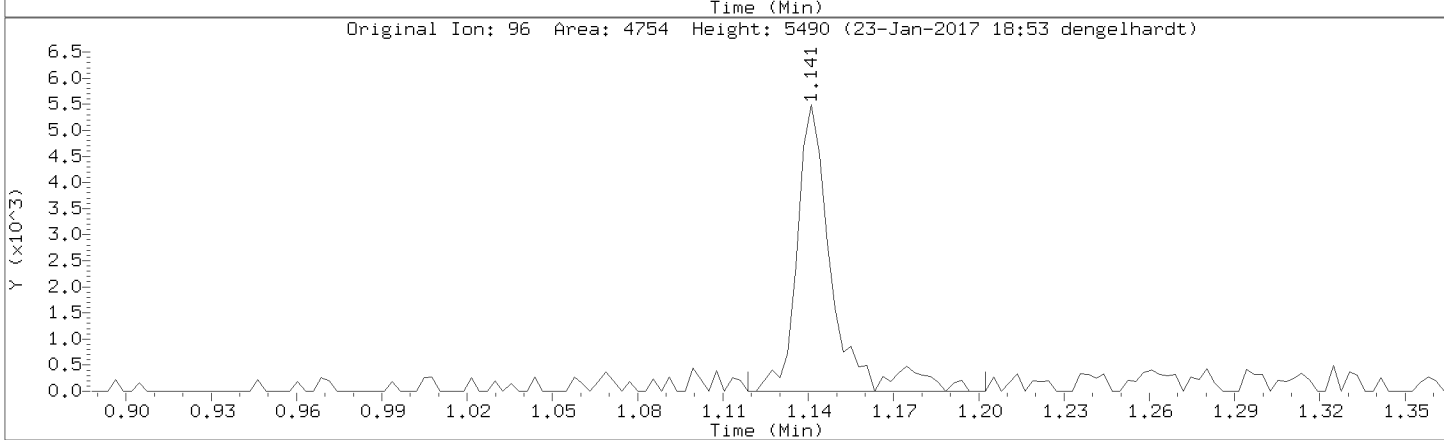
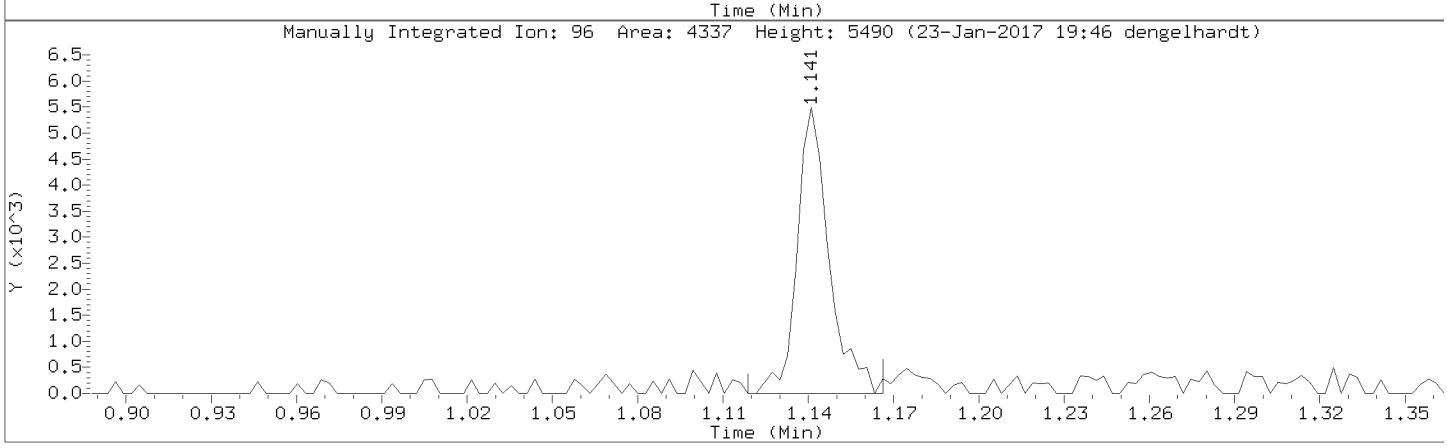
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromomethane Review Code:
CAS Number: 74-83-9



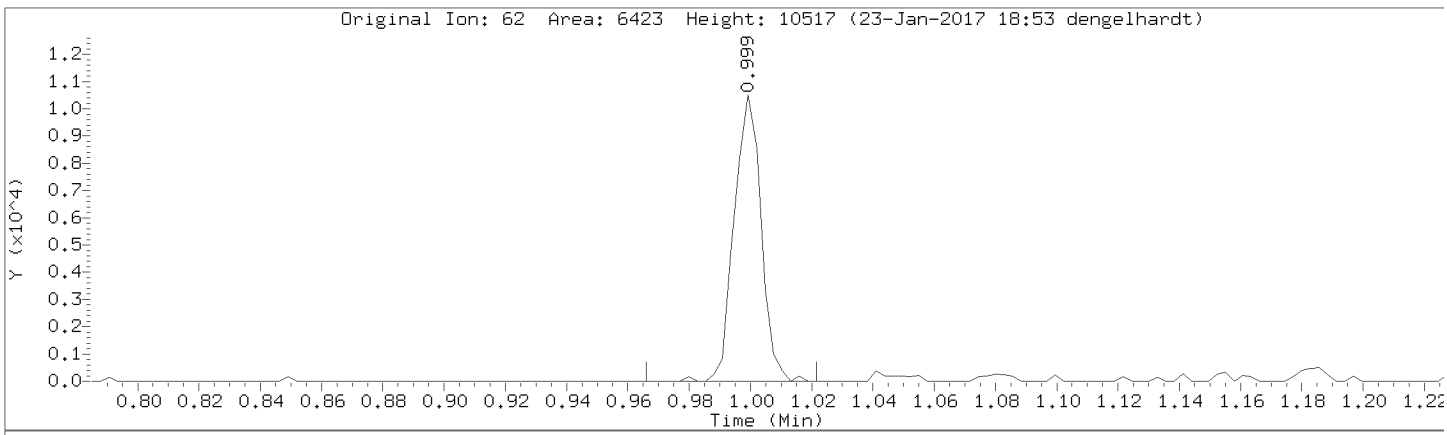


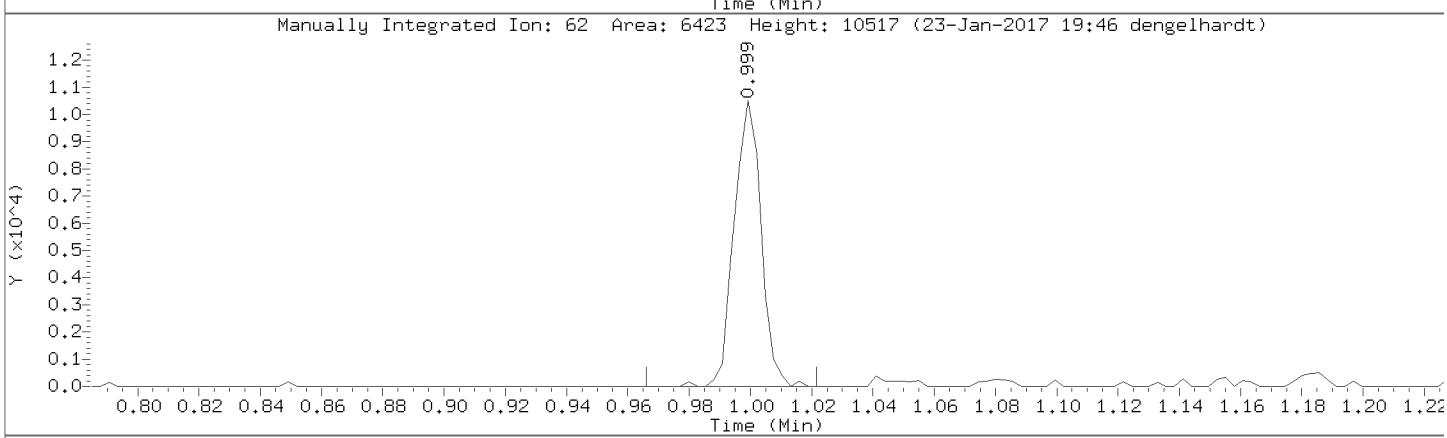


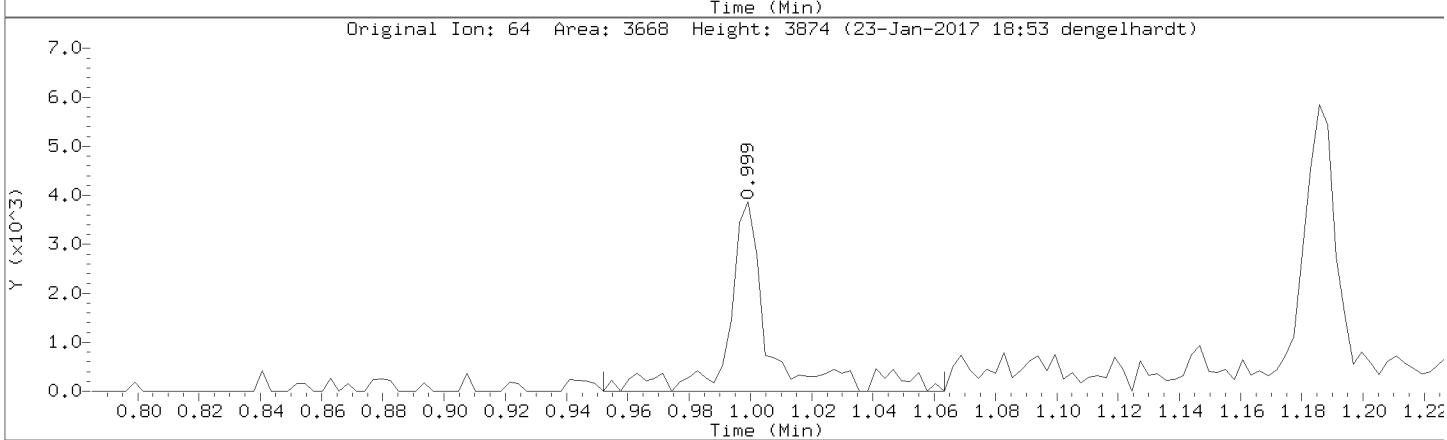


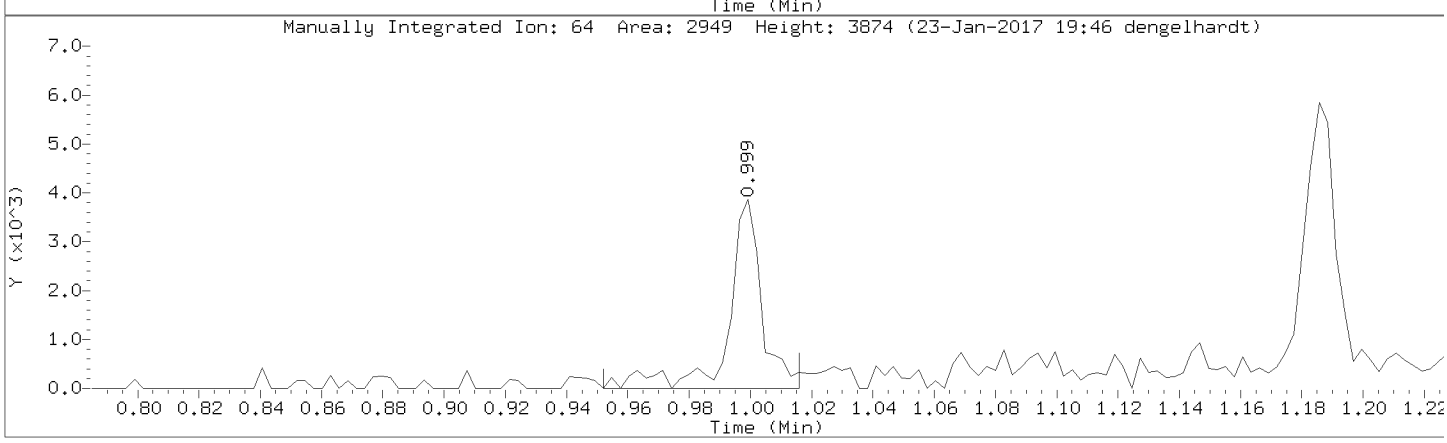
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a03cal3.d
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Vinyl Chloride Review Code: GT
CAS Number: 75-01-4









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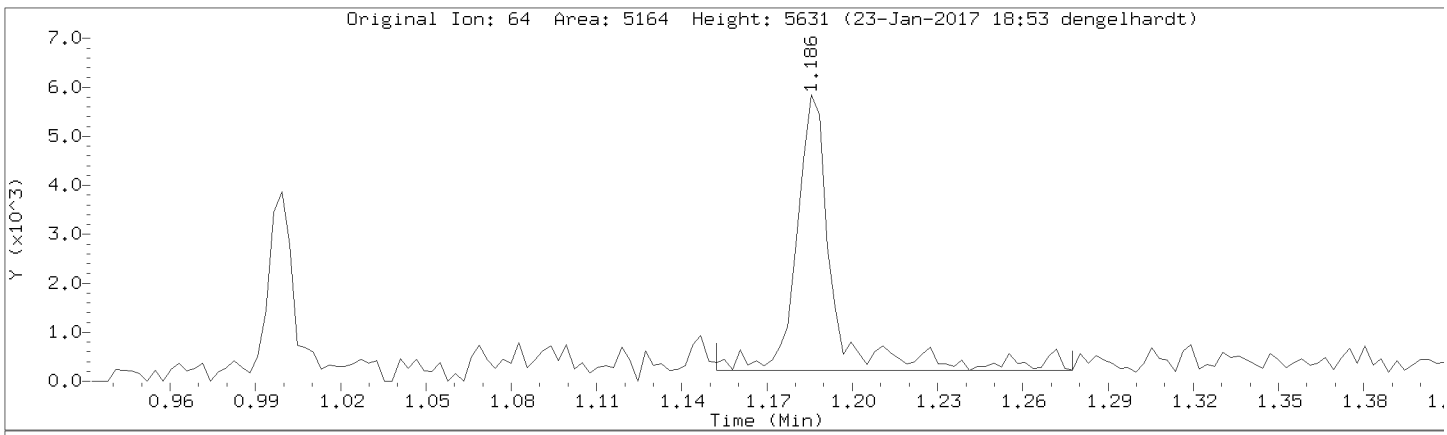
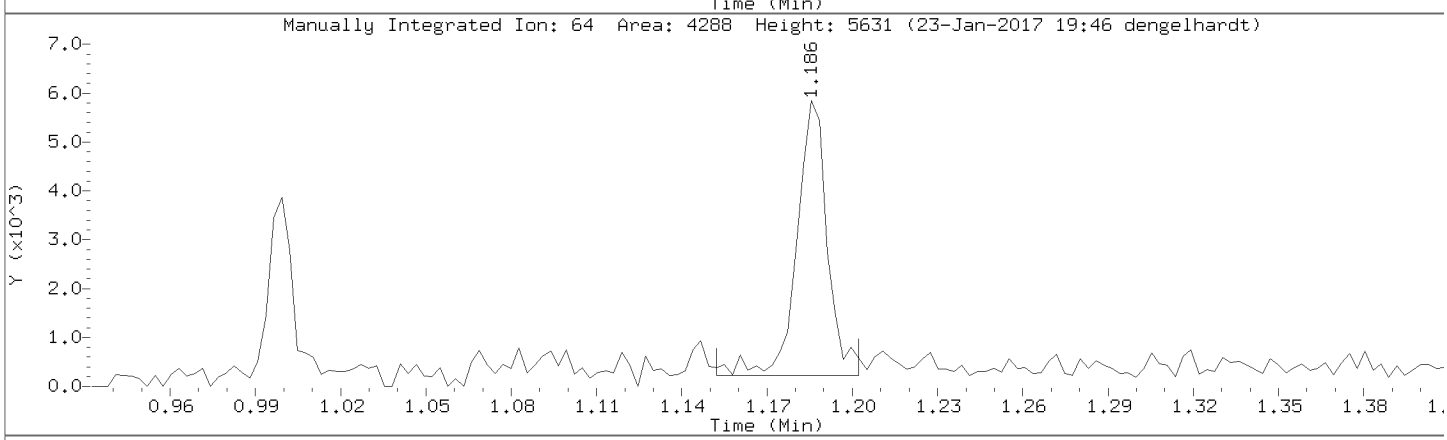
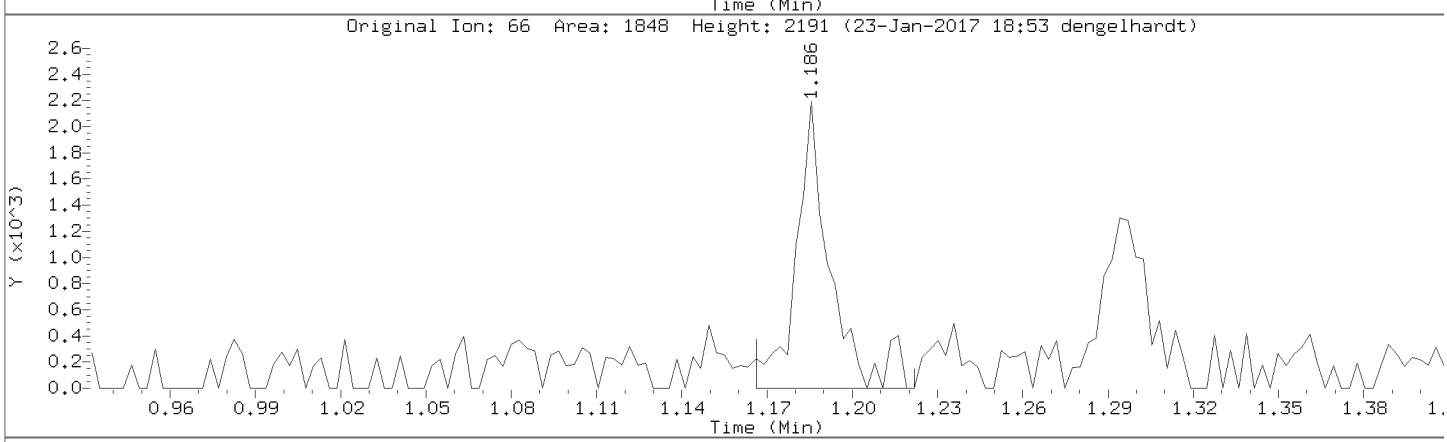
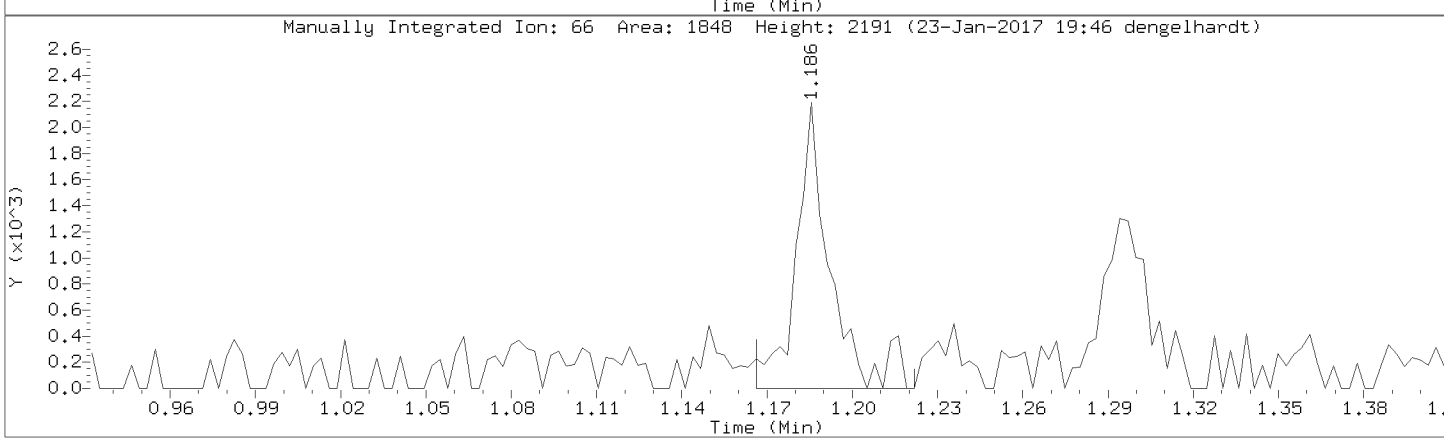
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3









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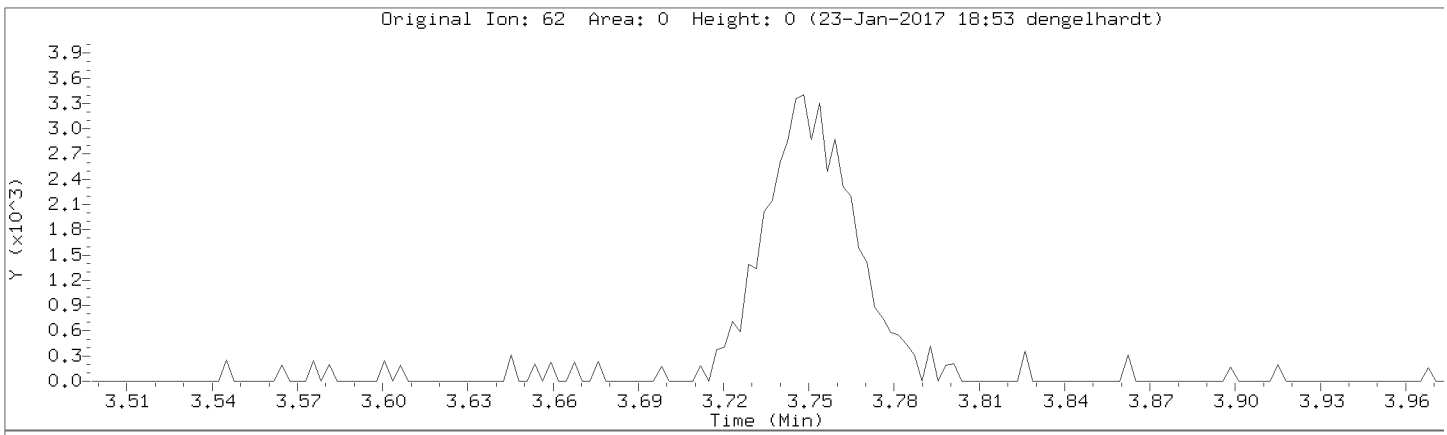
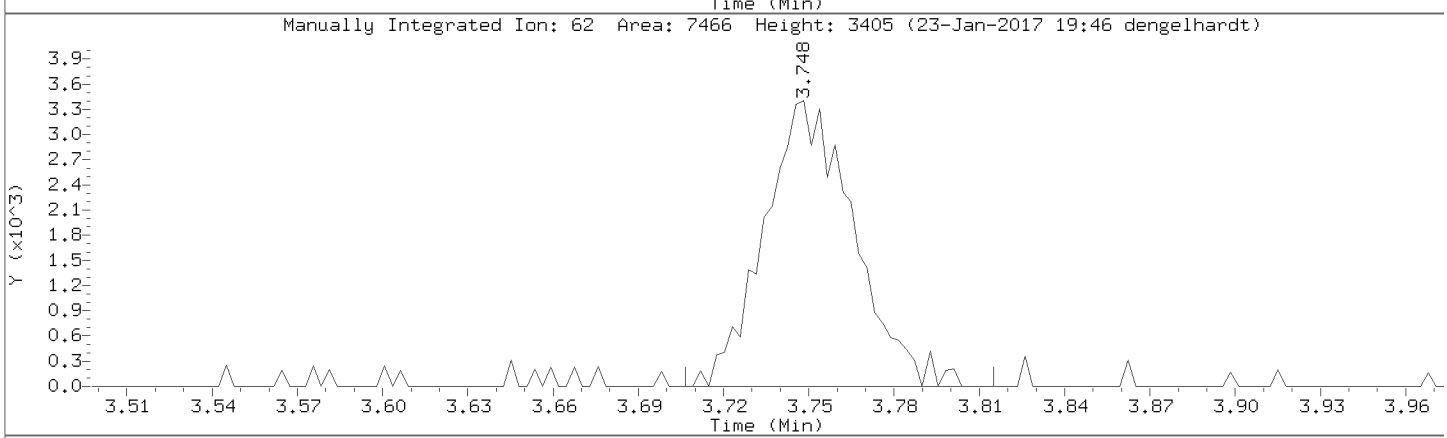
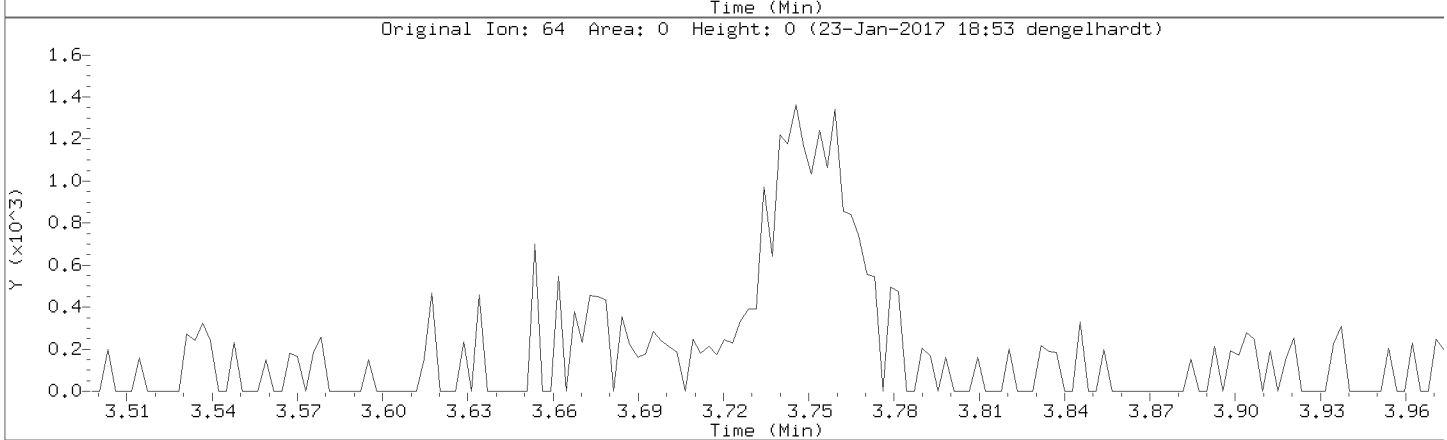
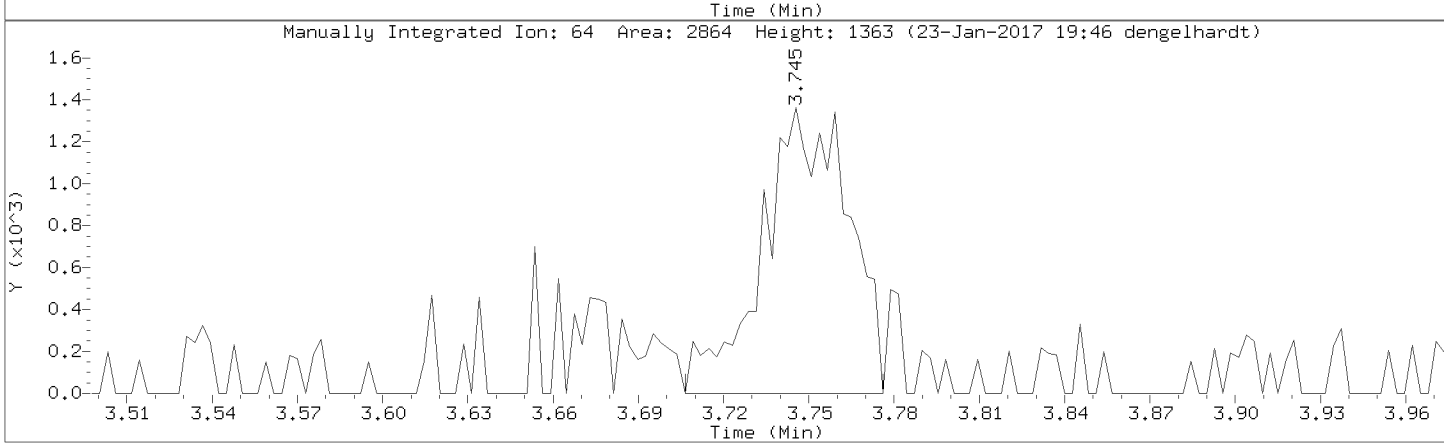
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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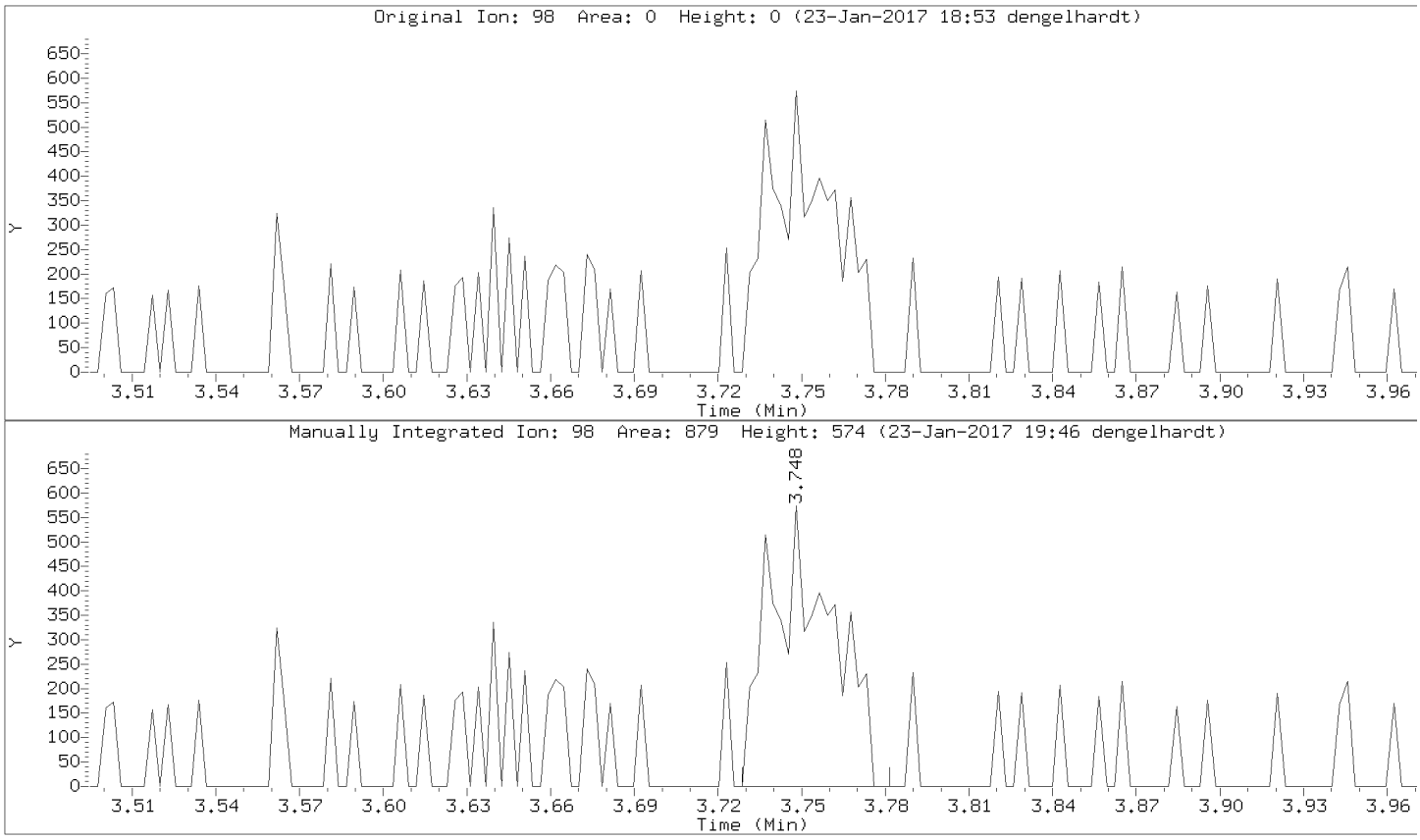
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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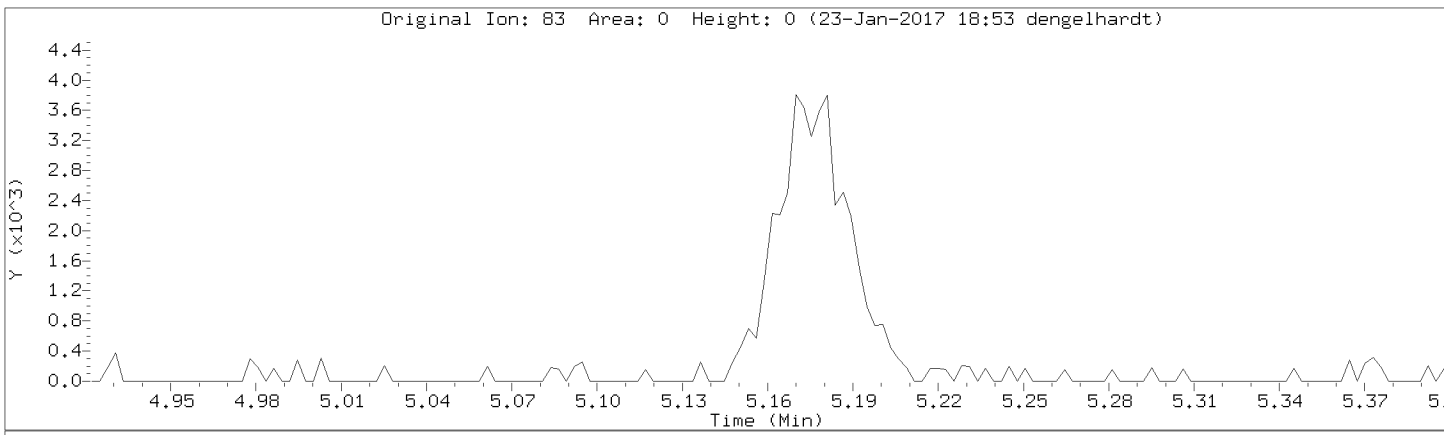
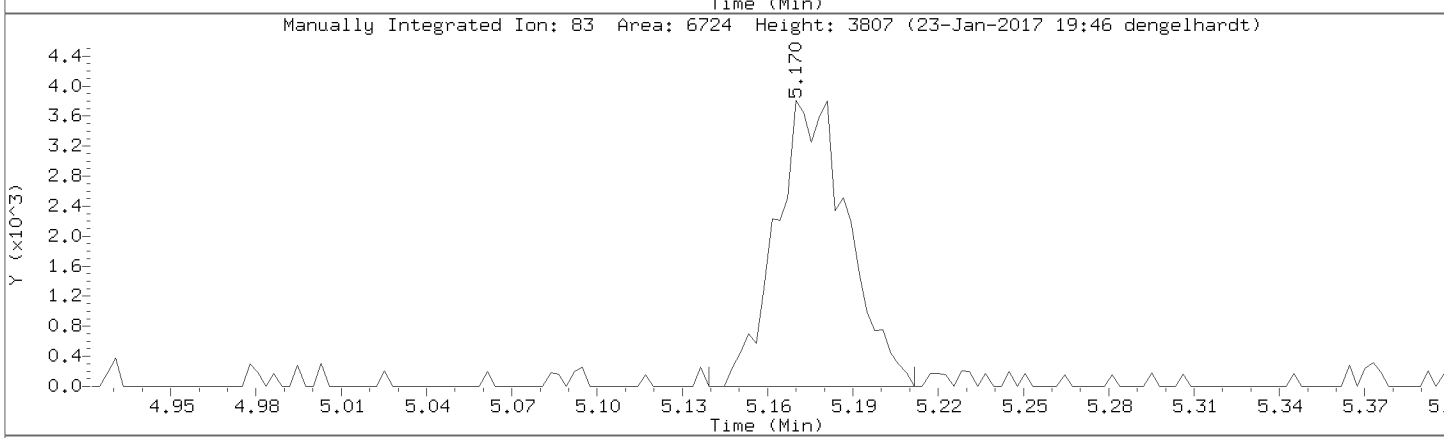
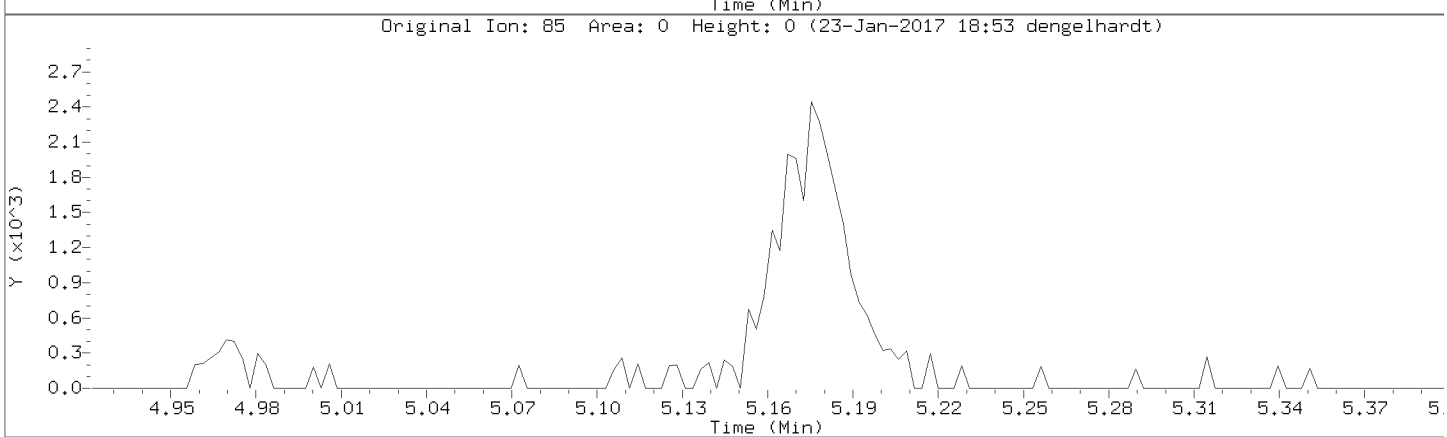
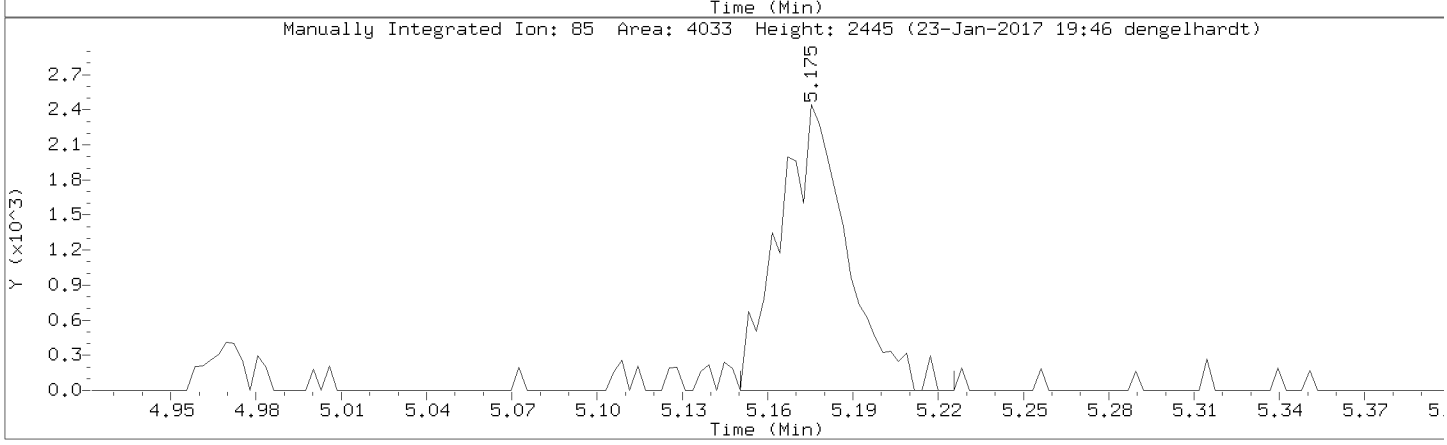
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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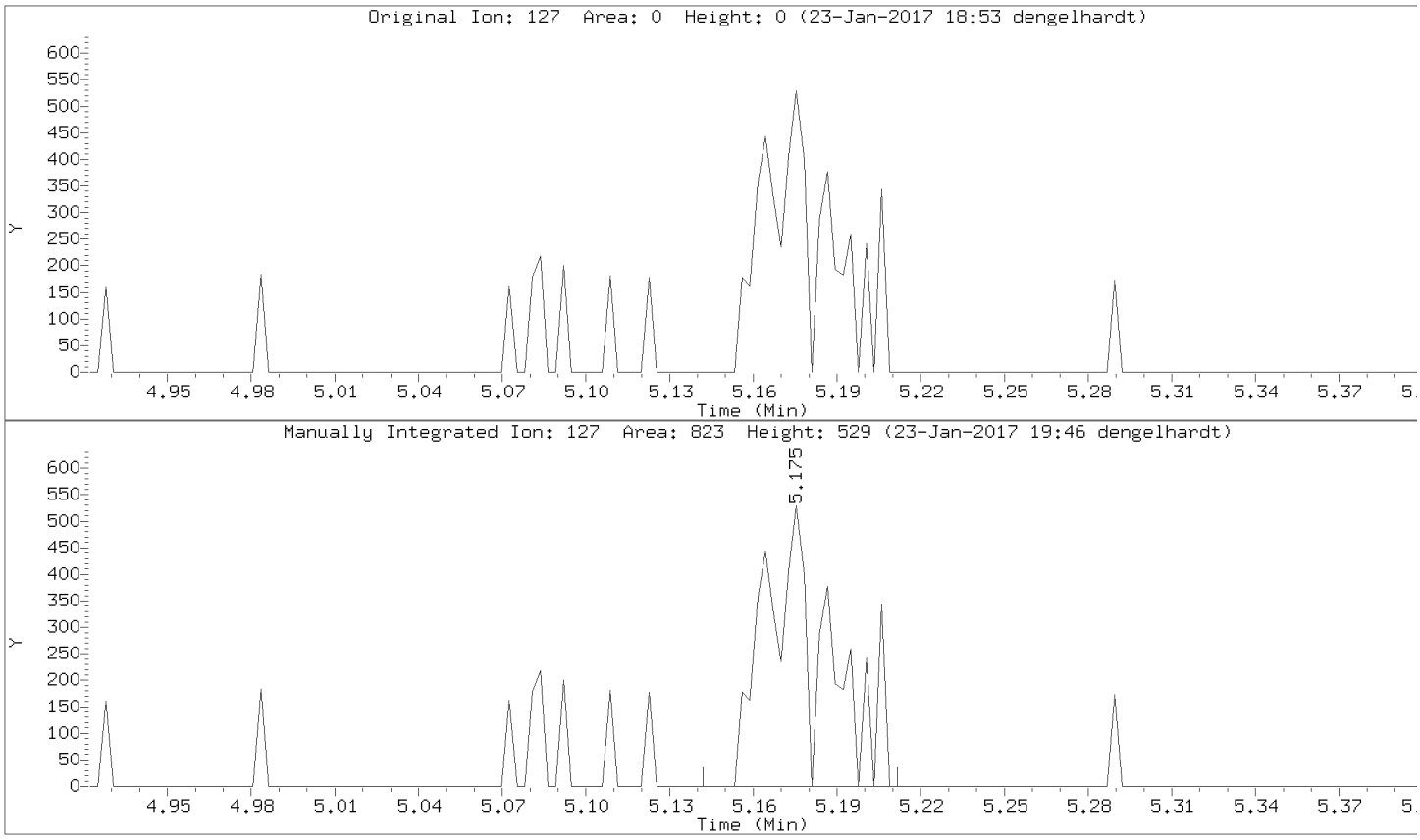
Lab Sample ID: 8260-CAL3



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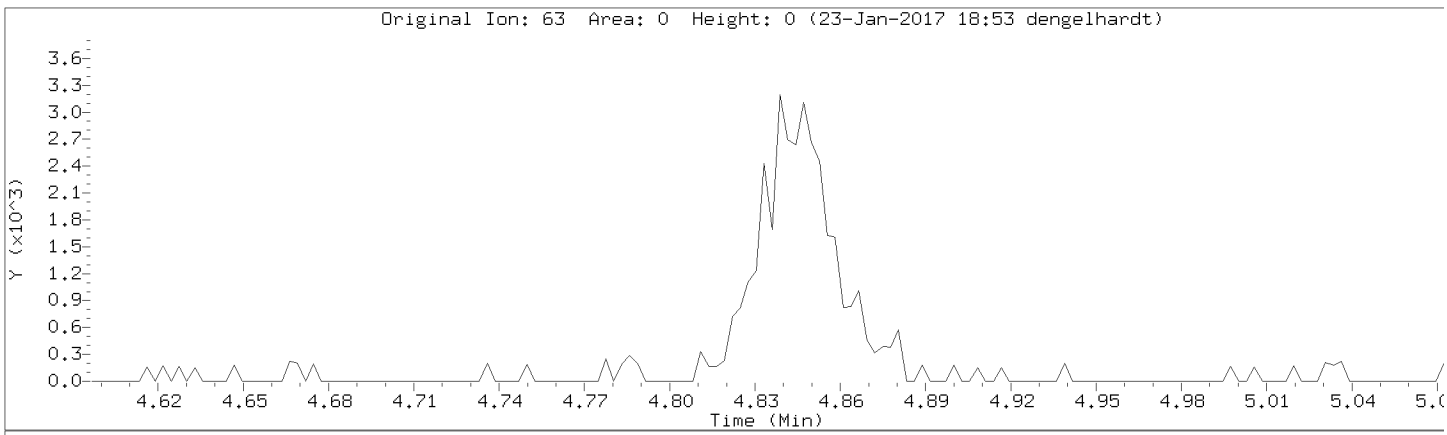
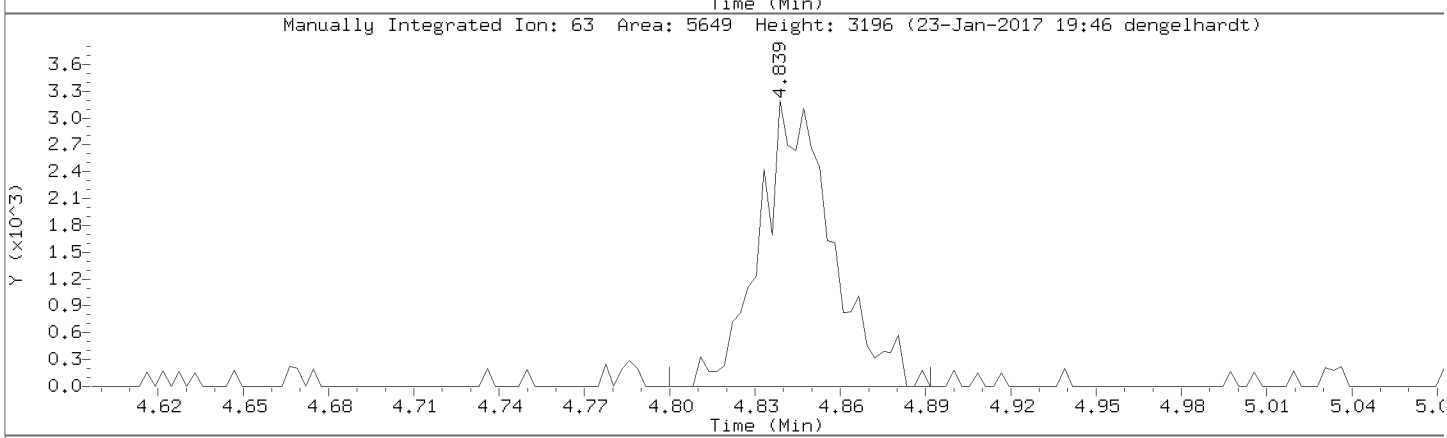
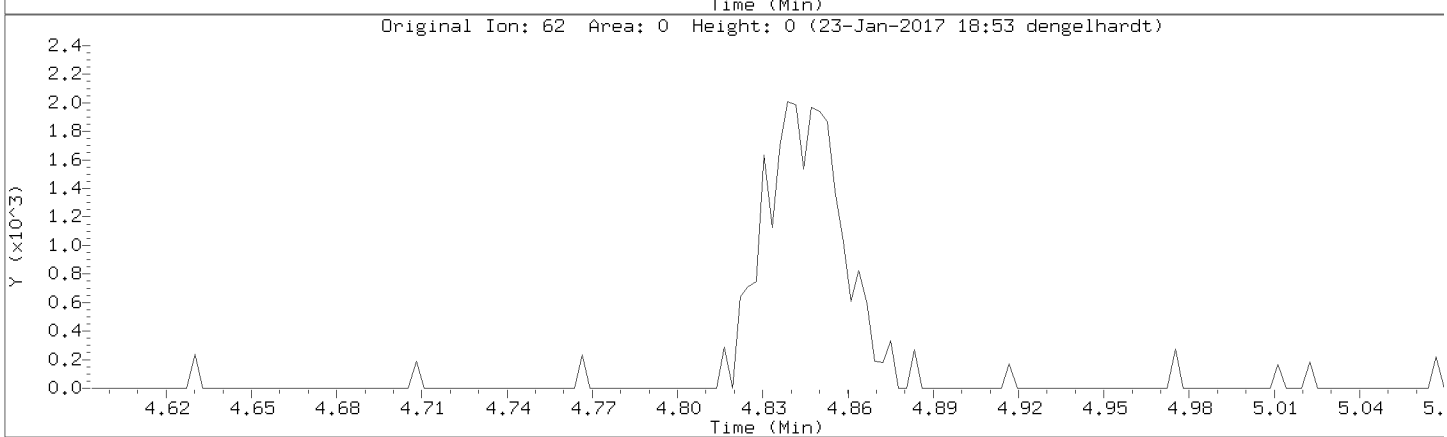
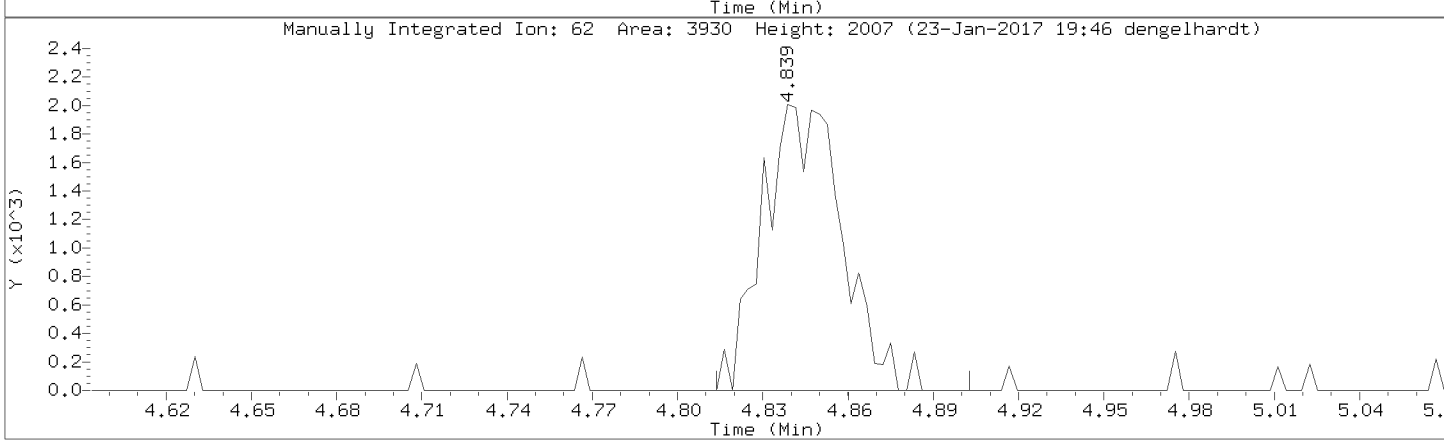
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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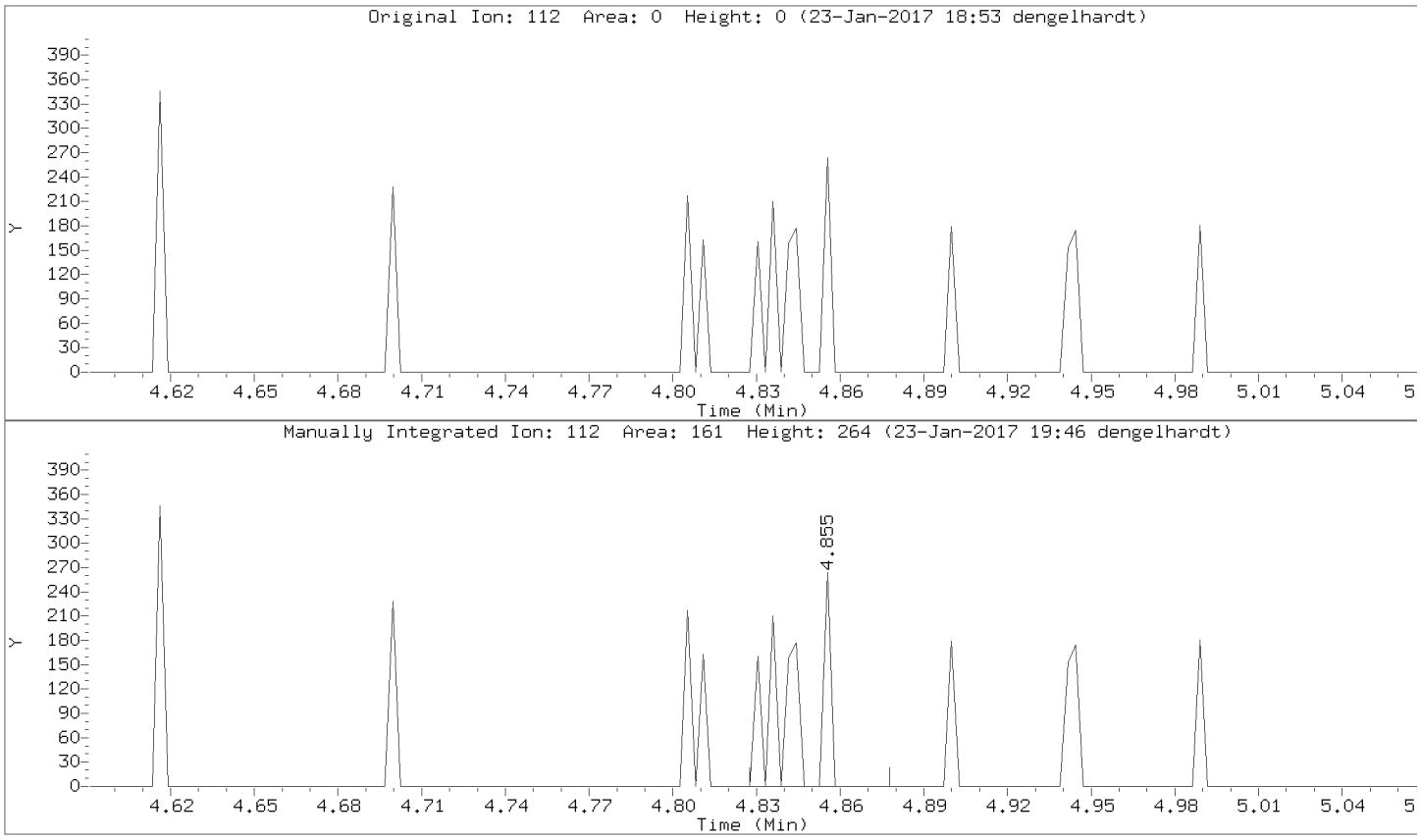
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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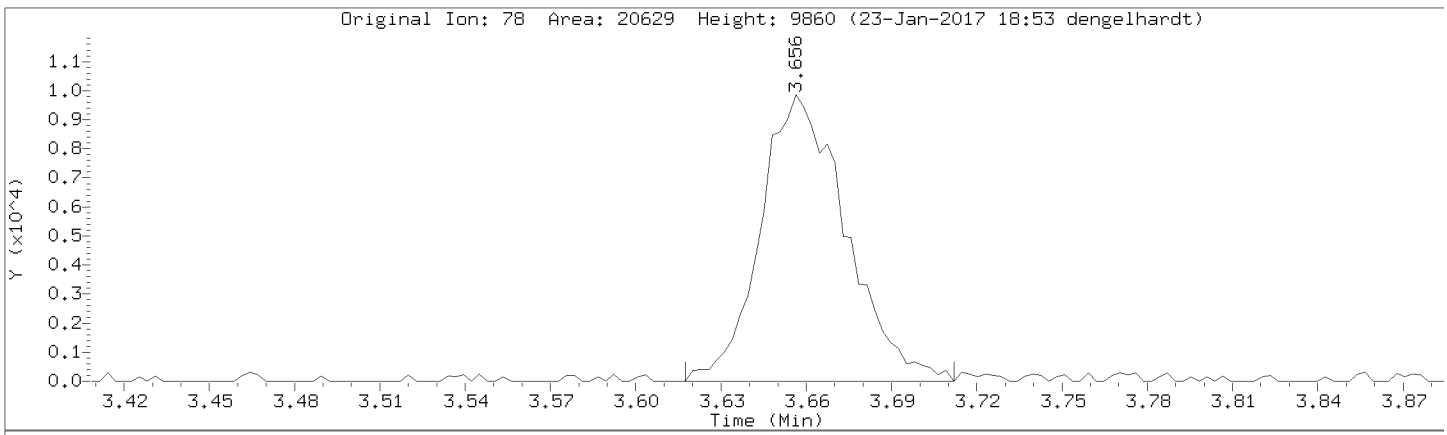
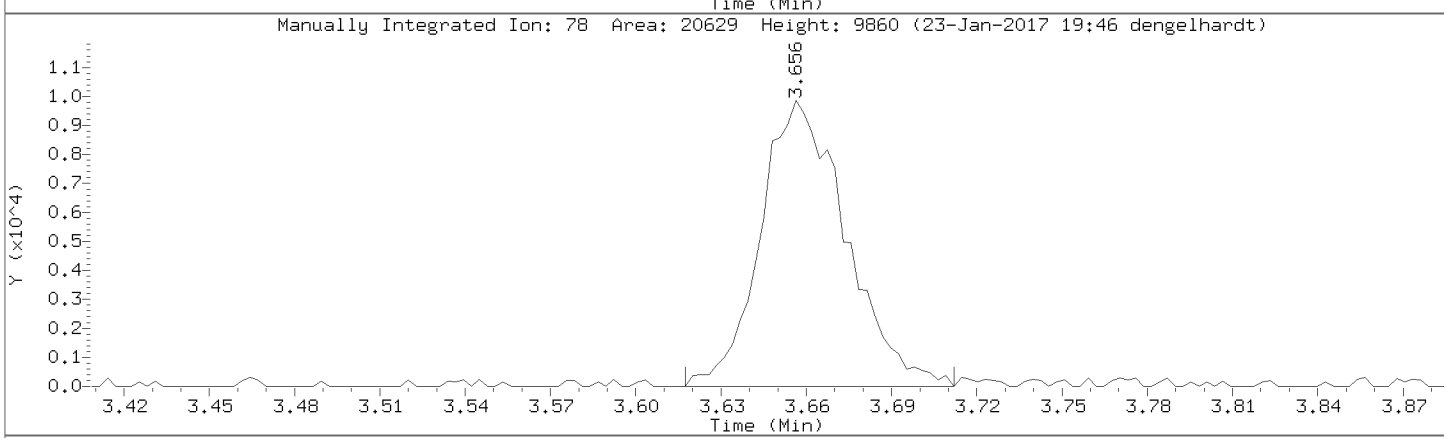
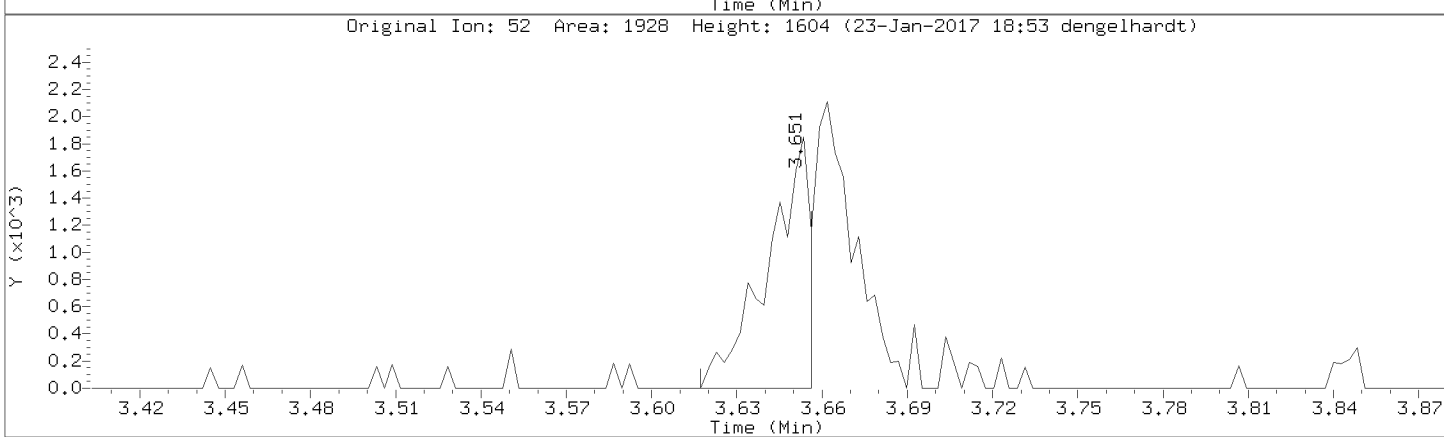
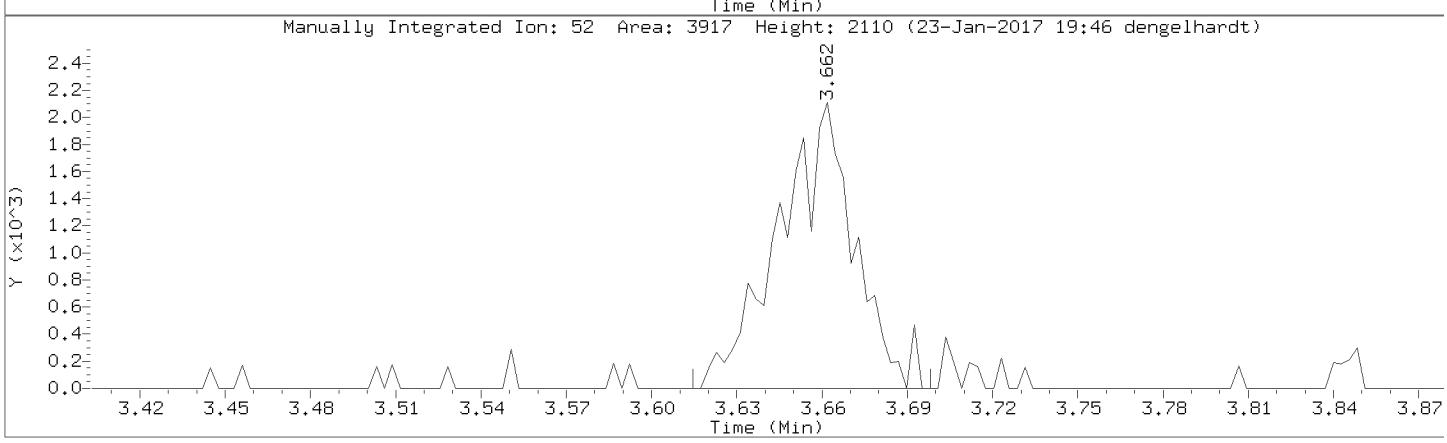
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Benzene Review Code: WP
CAS Number: 71-43-2









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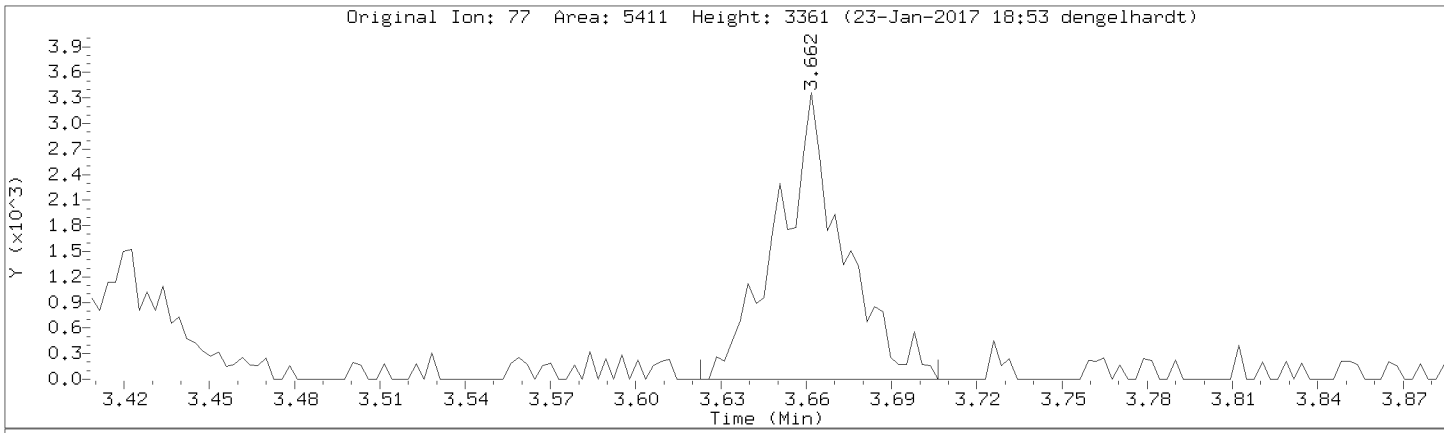
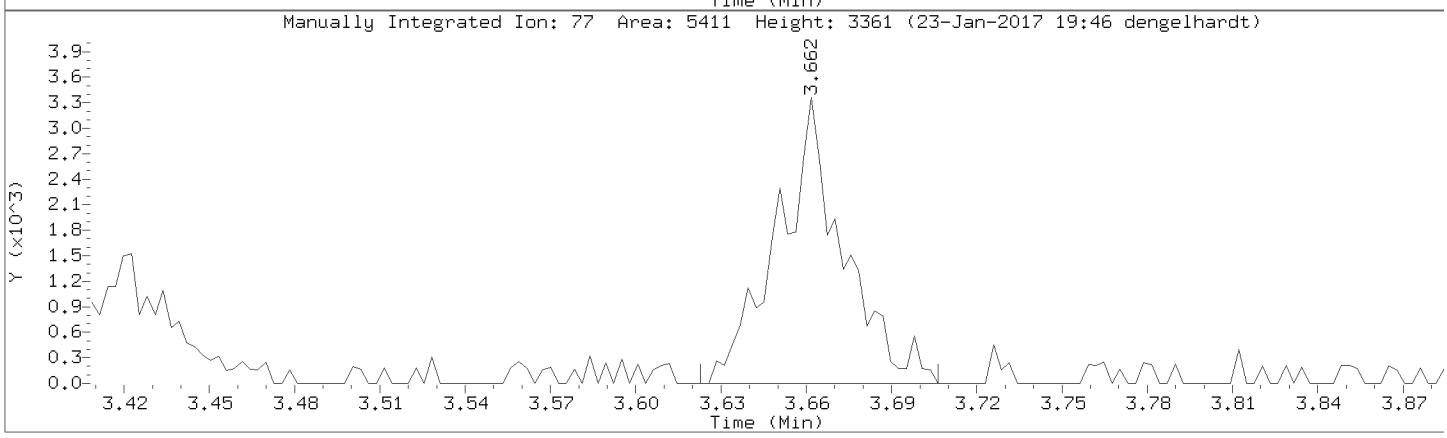
Lab Sample ID: 8260-CAL3





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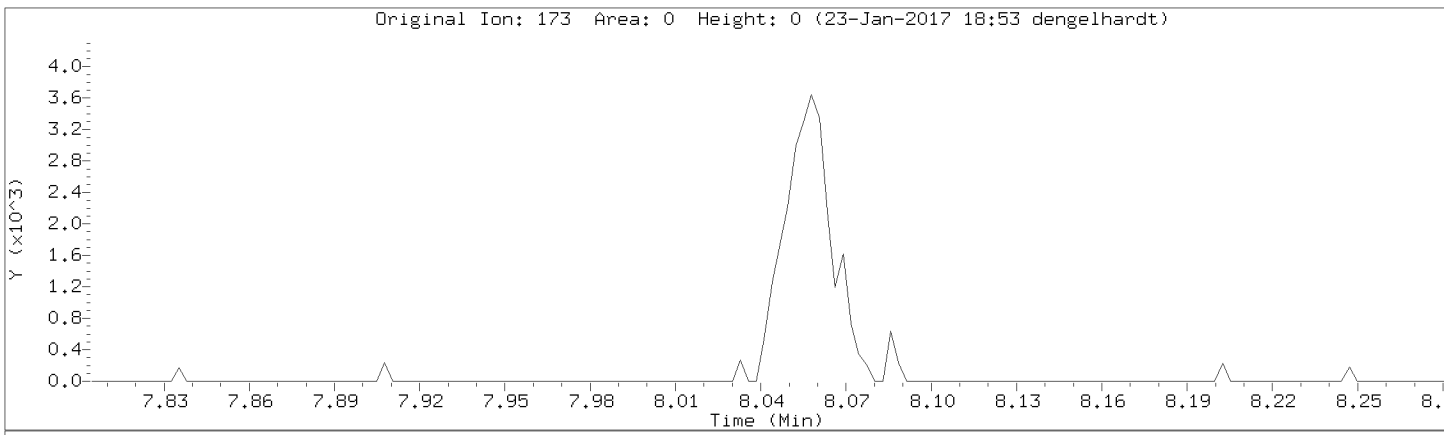
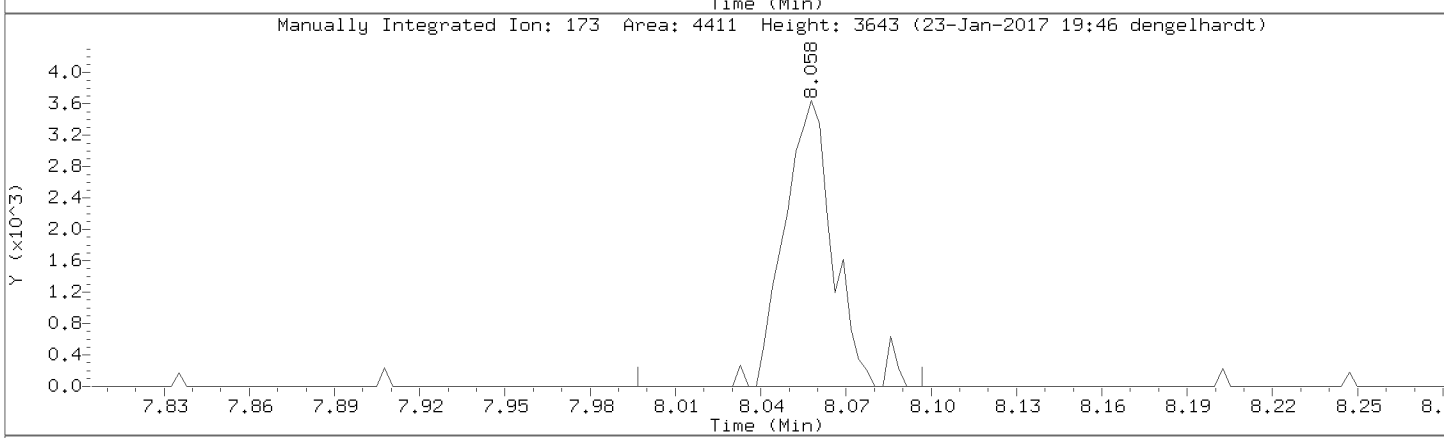
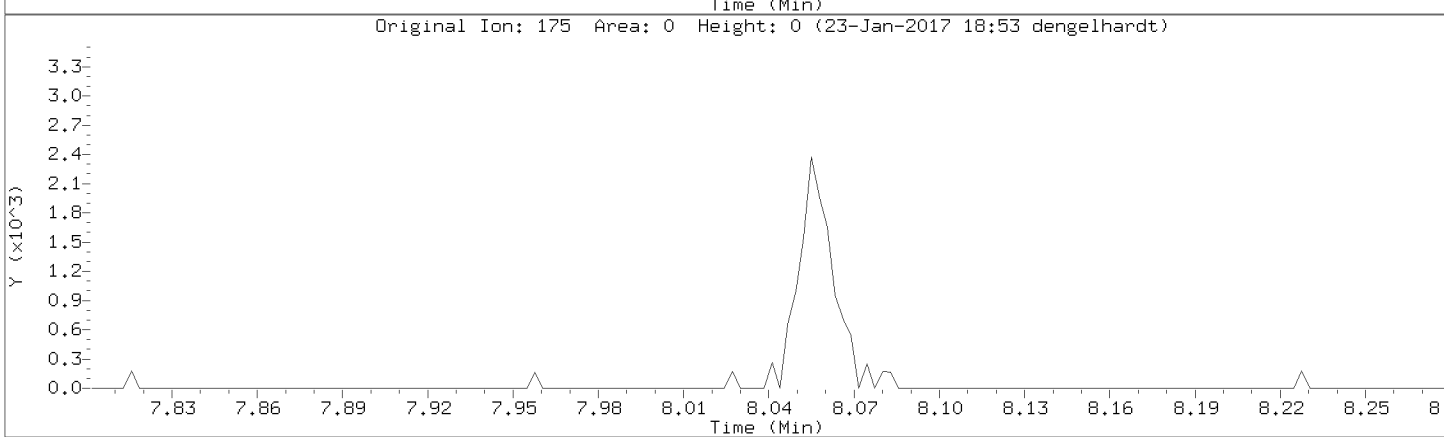
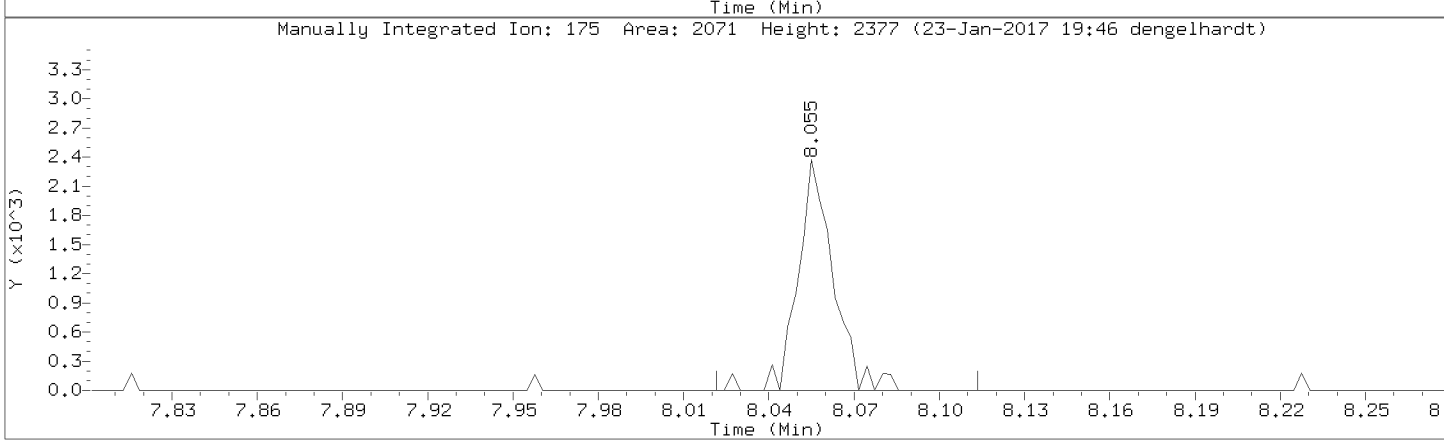
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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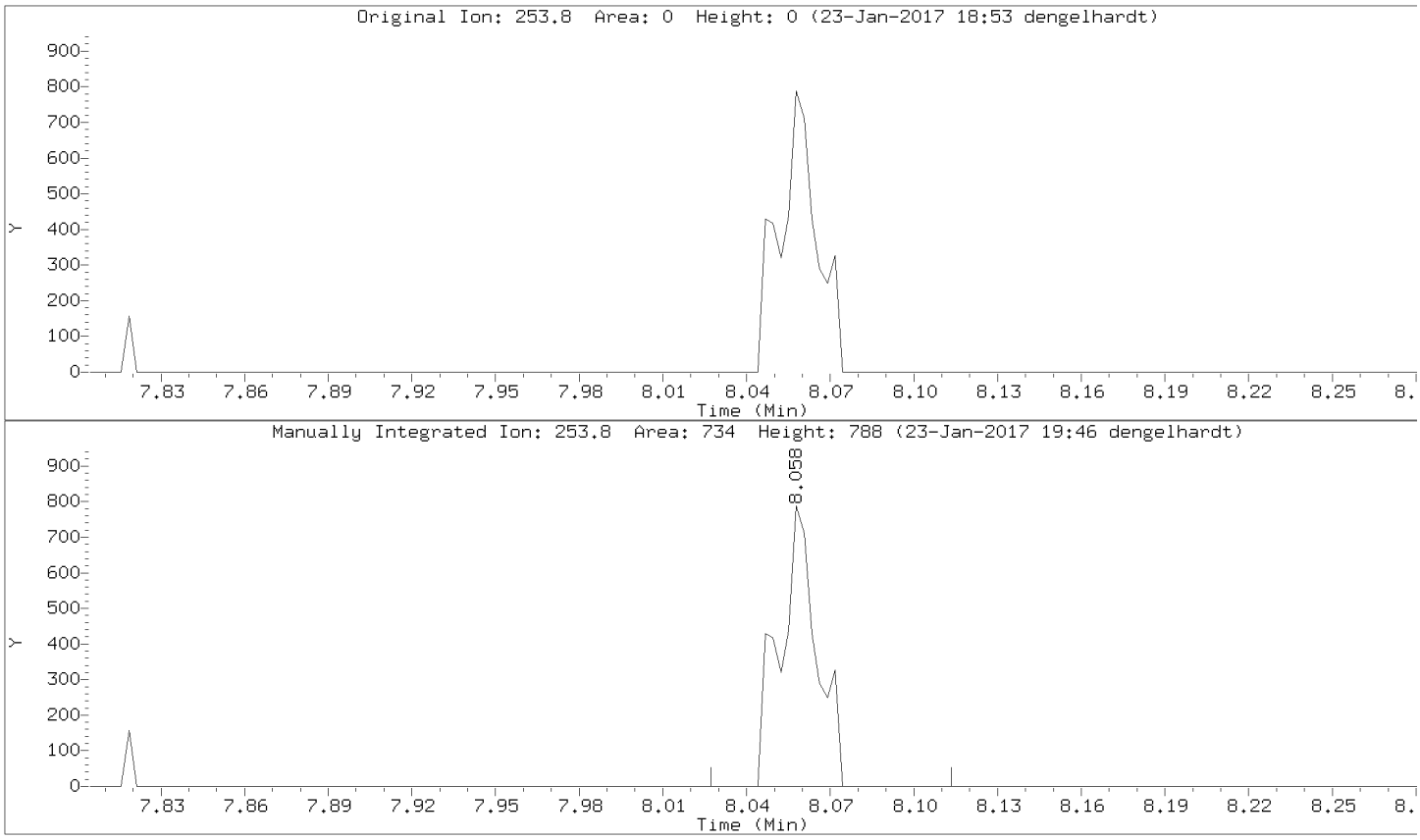
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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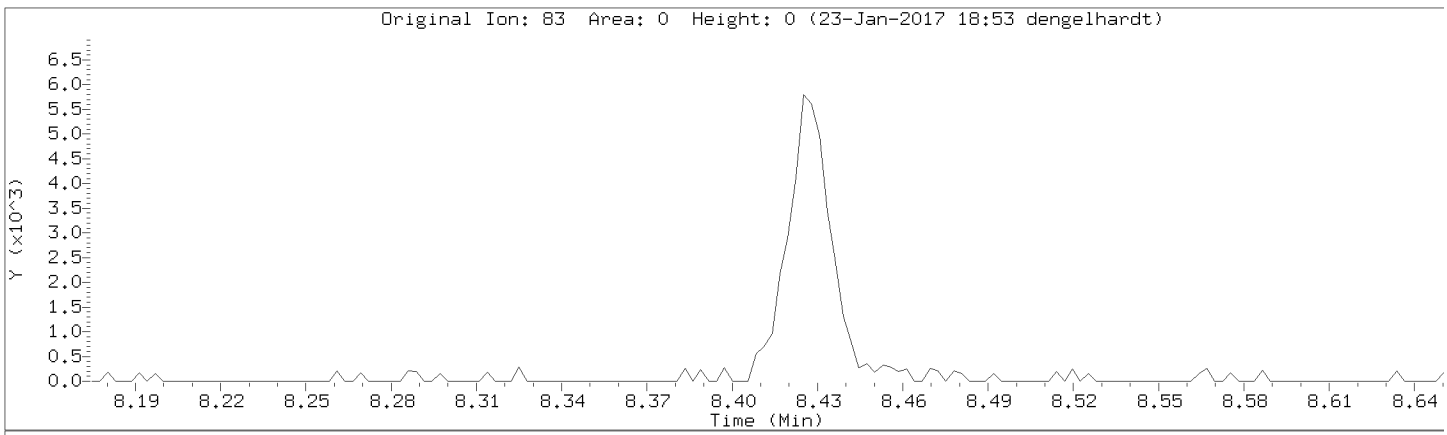
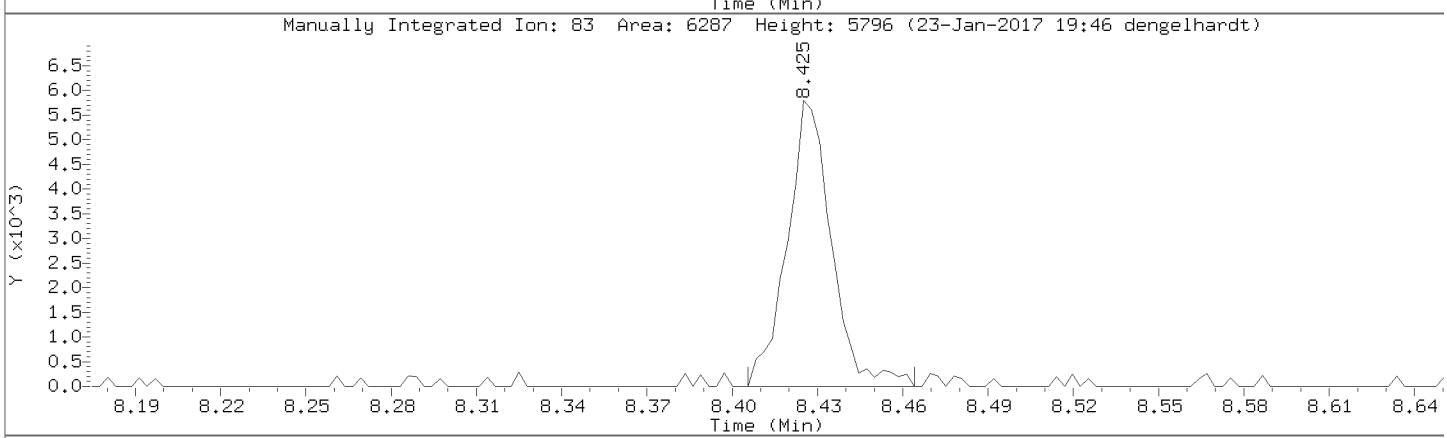
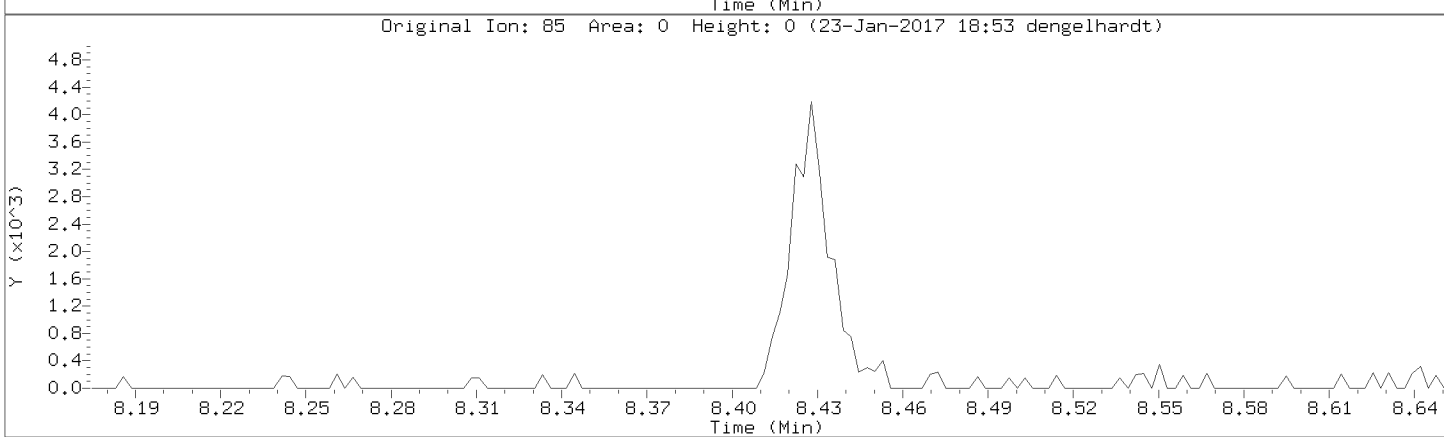
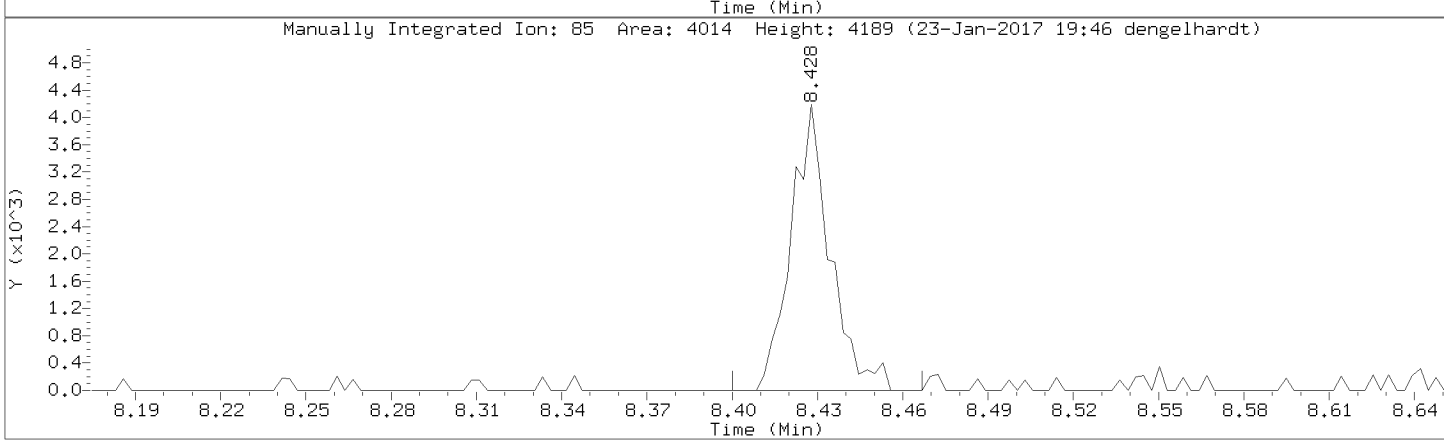
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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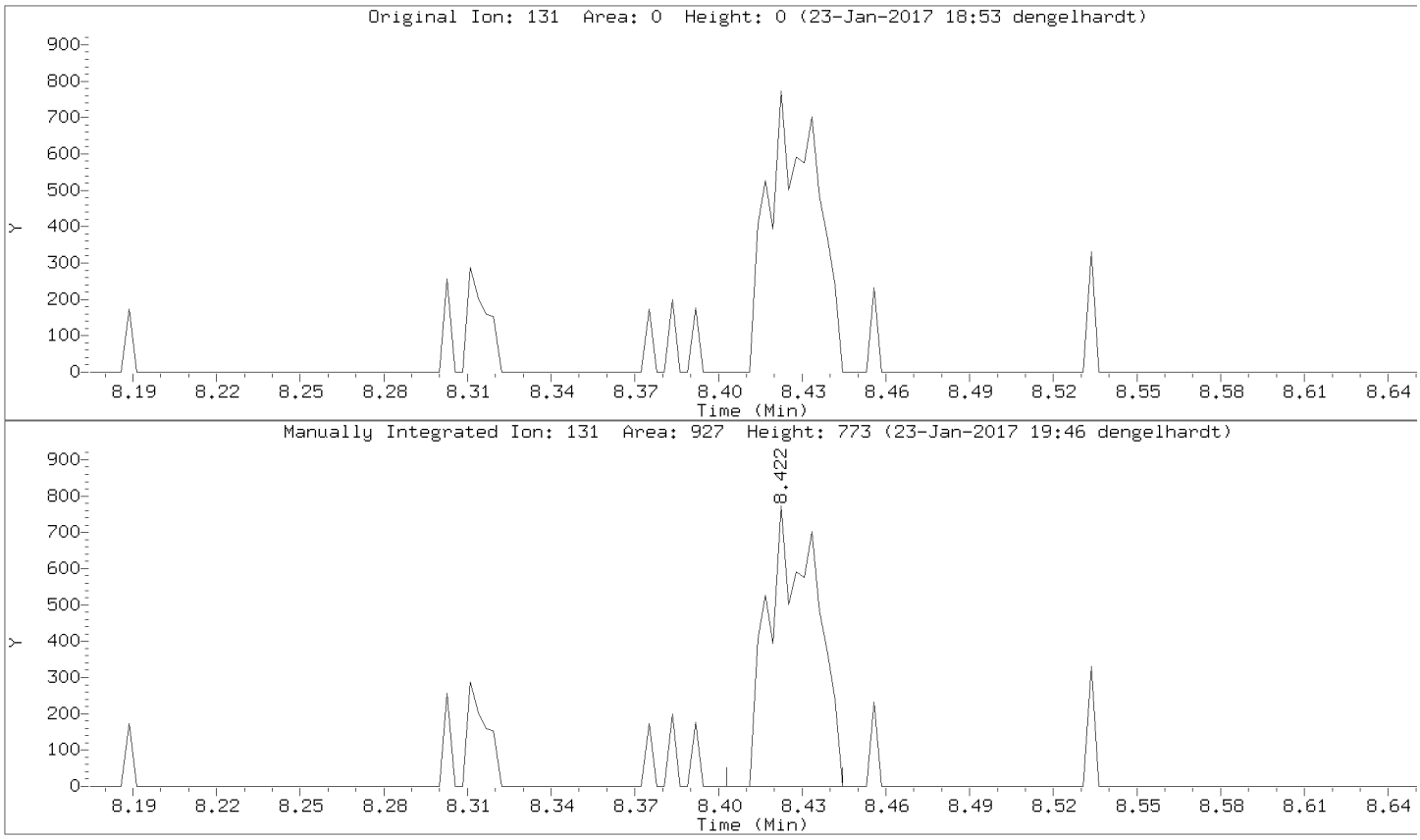
Lab Sample ID: 8260-CAL3



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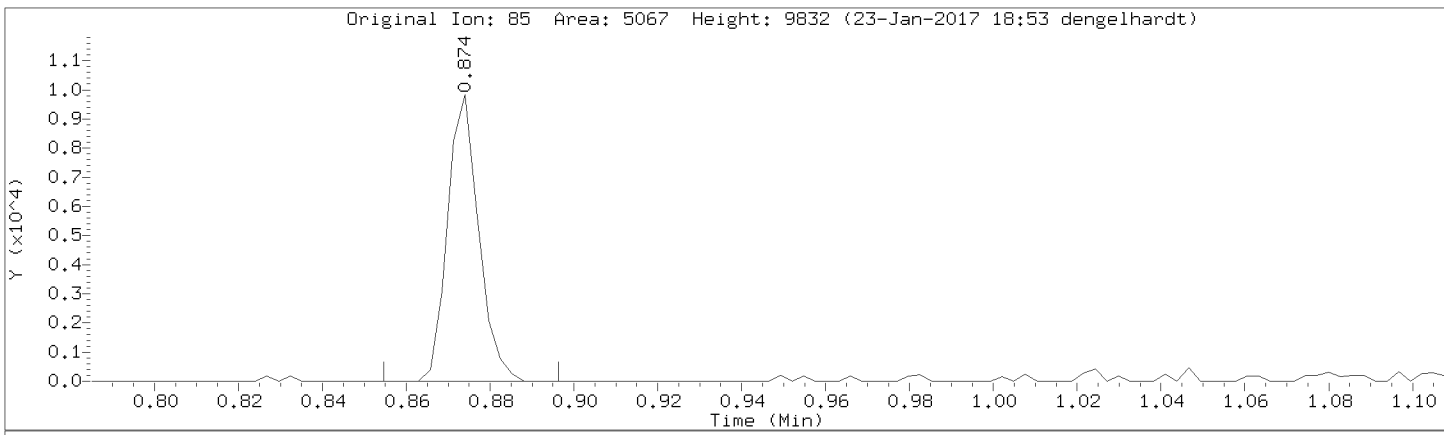
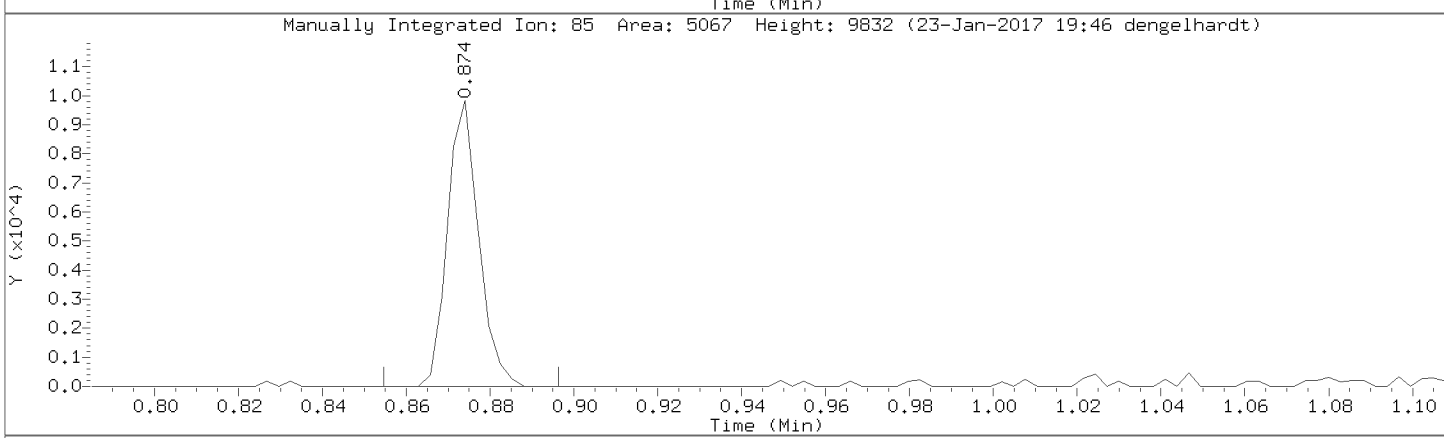
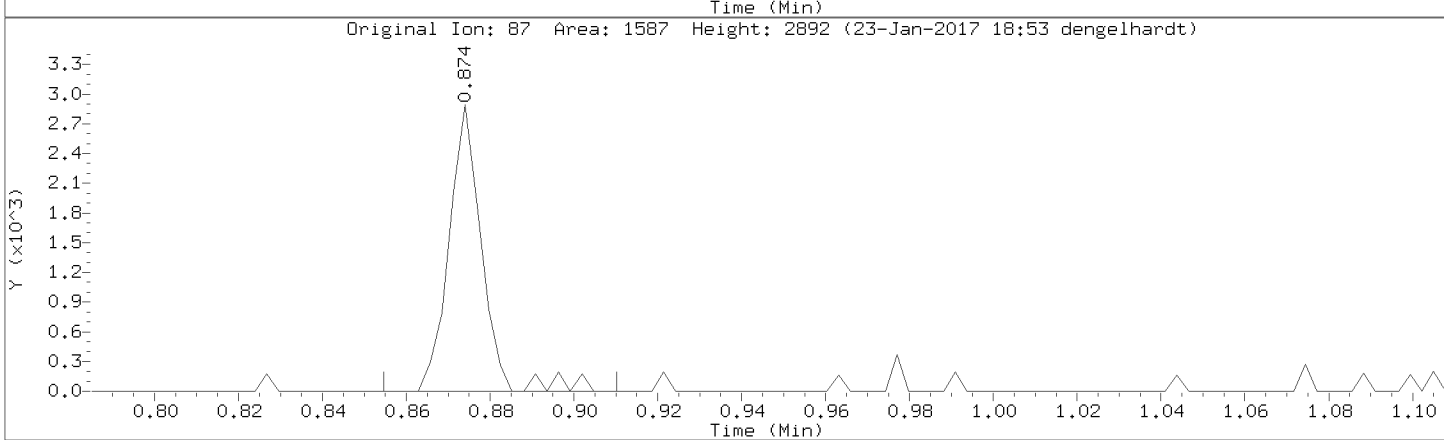
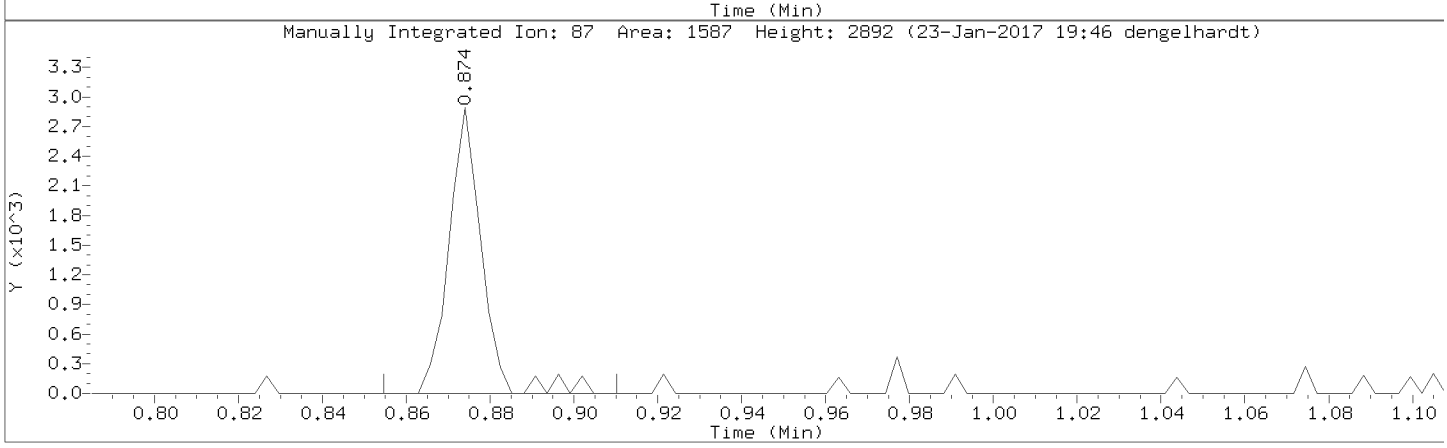
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Dichlorodifluoromethane Review Code:
CAS Number: 75-71-8









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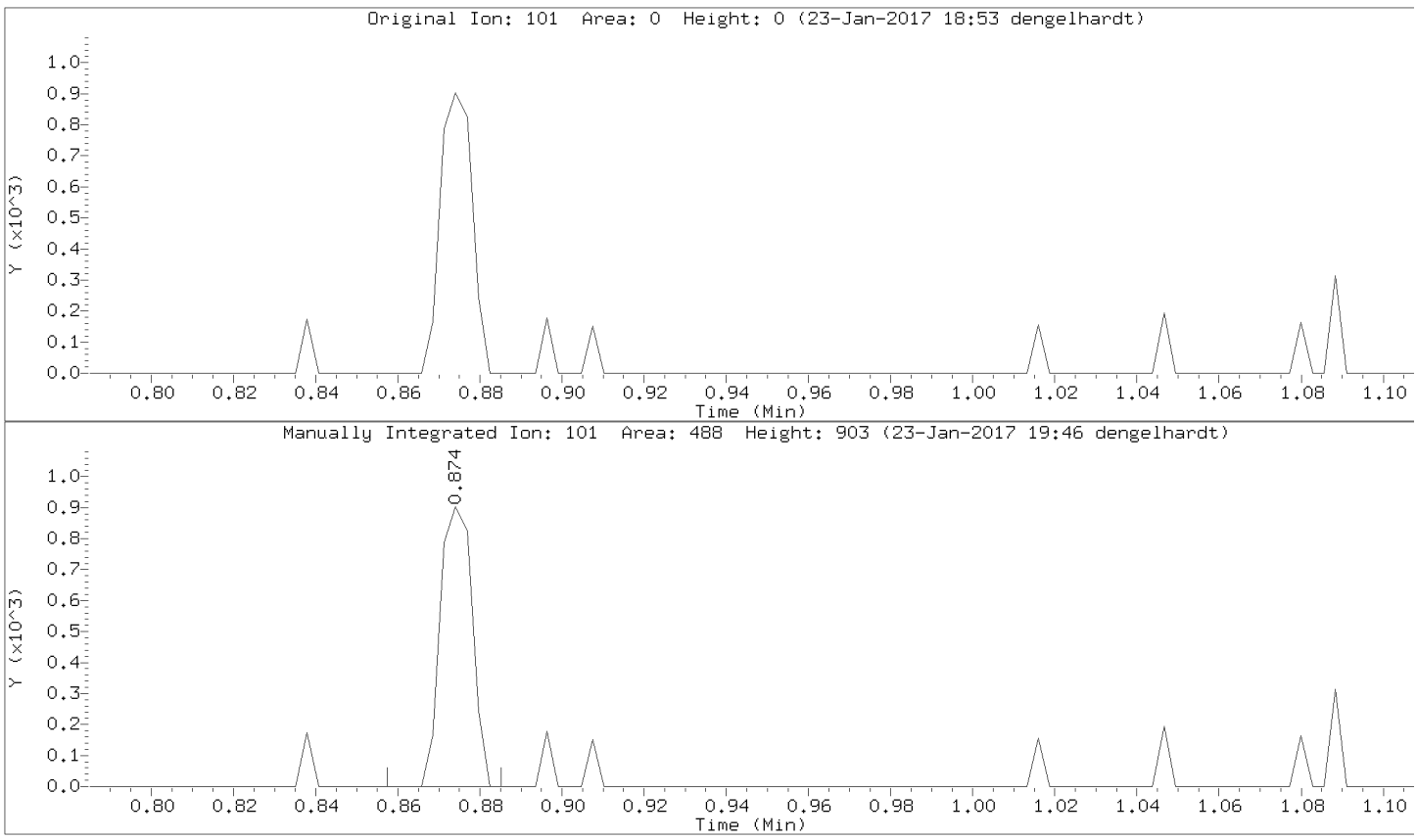
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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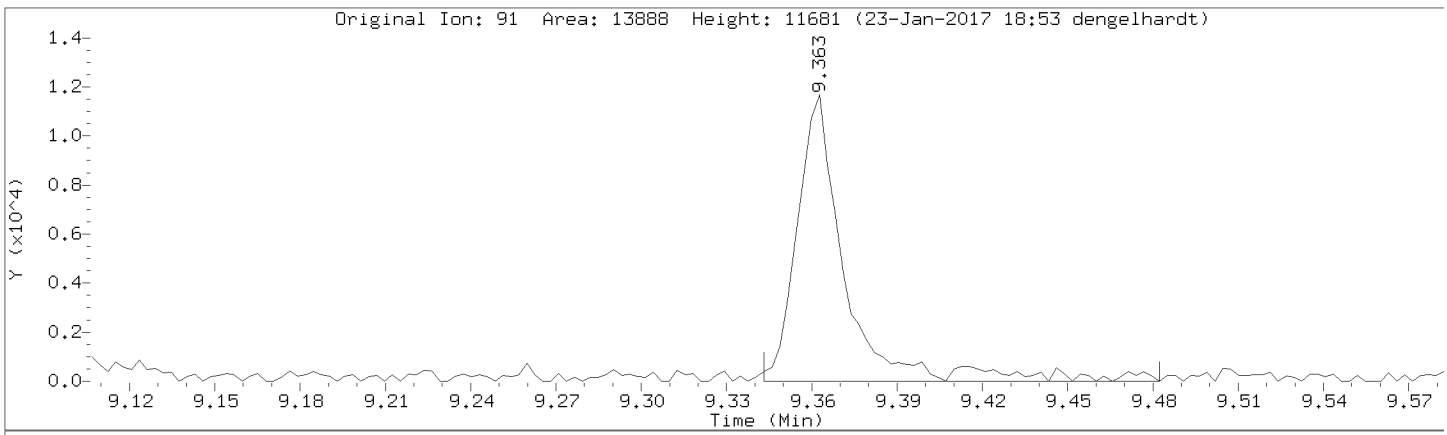
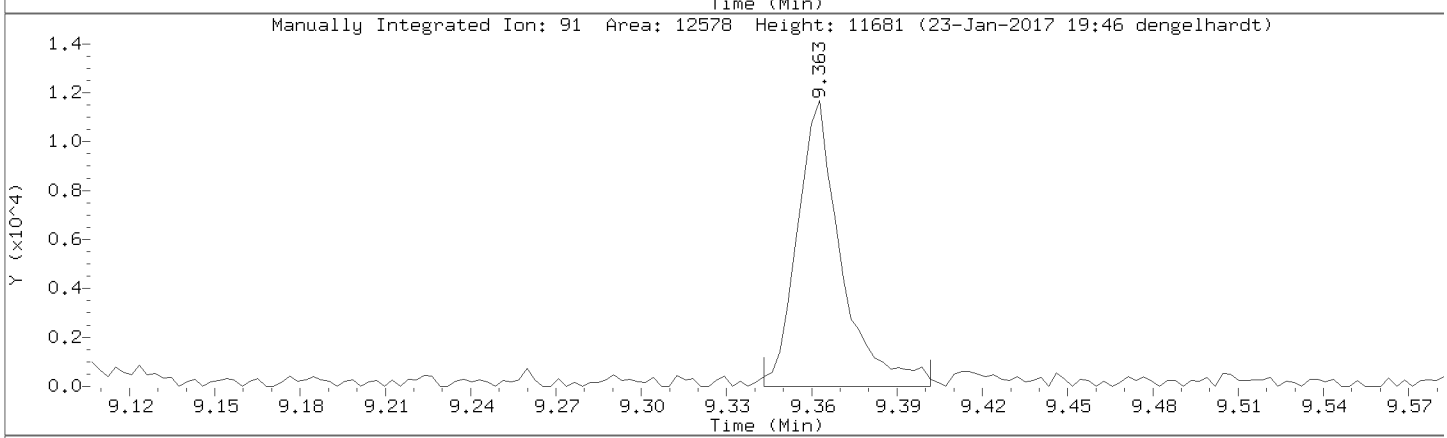
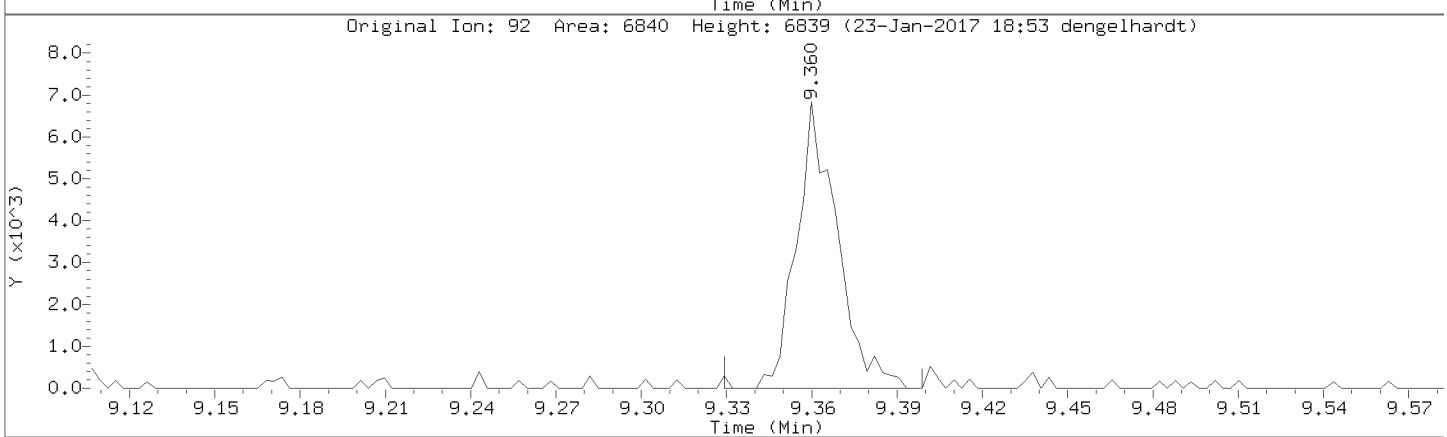
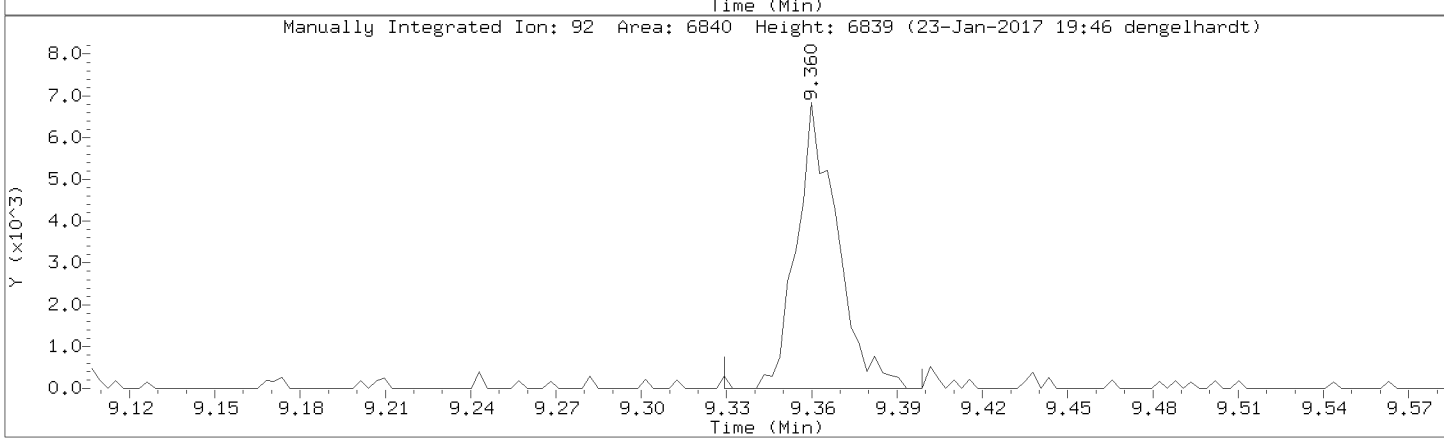
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: n-Butylbenzene Review Code: WP
CAS Number: 104-51-8









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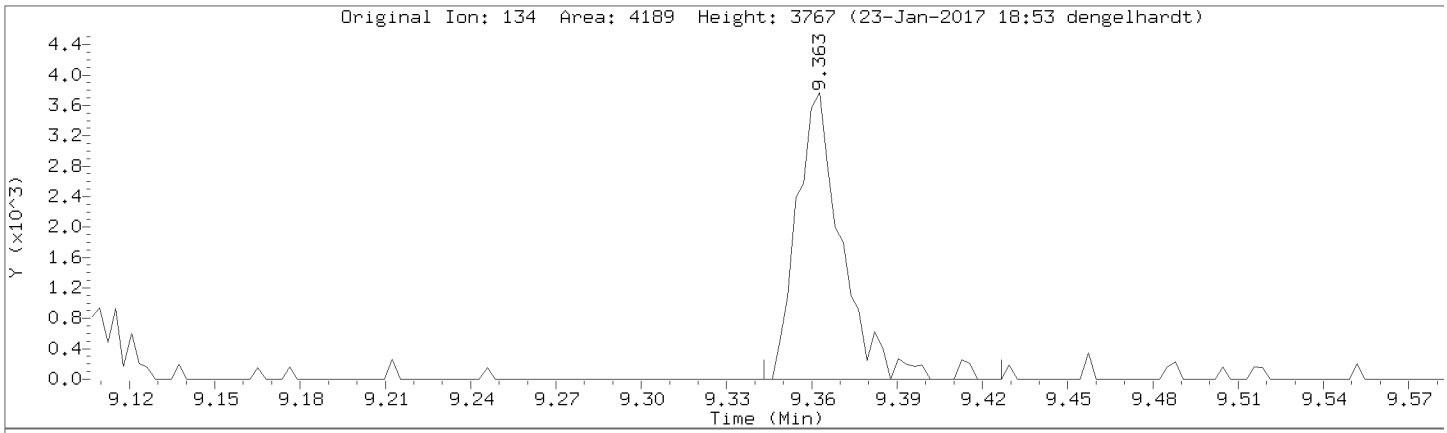
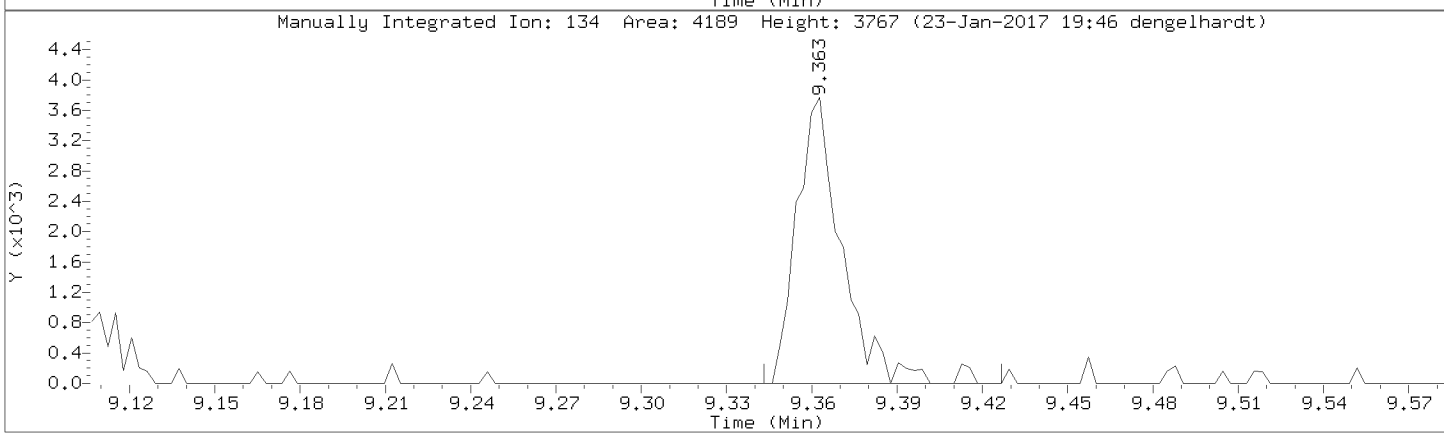
Lab Sample ID: 8260-CAL3





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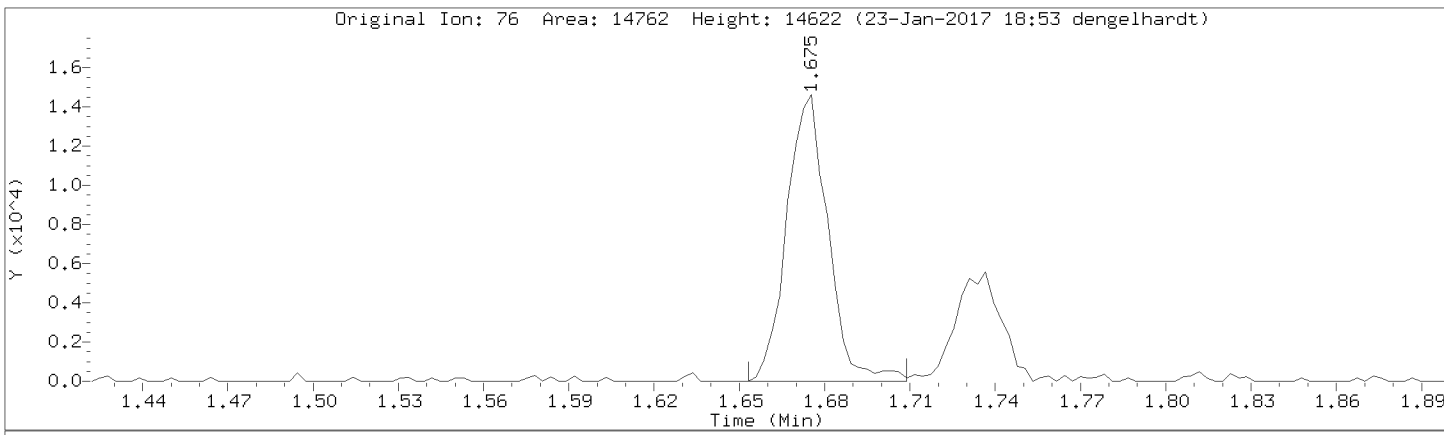
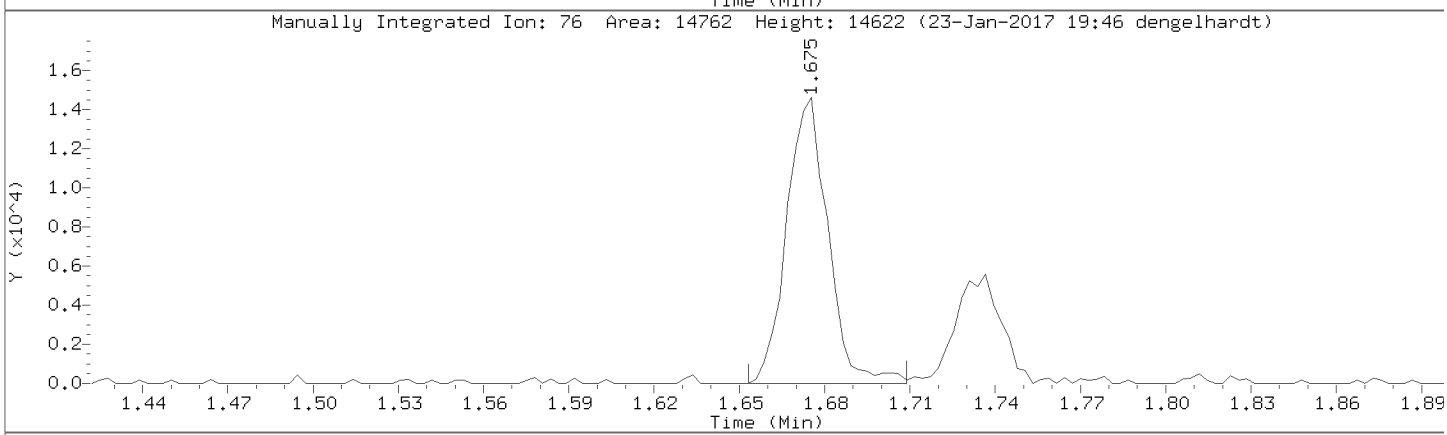
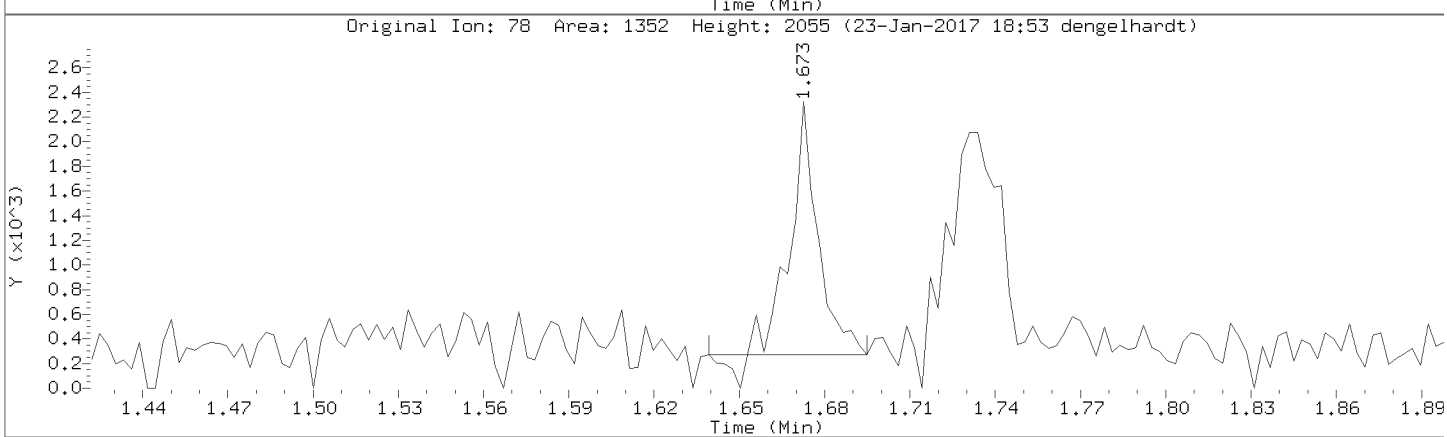
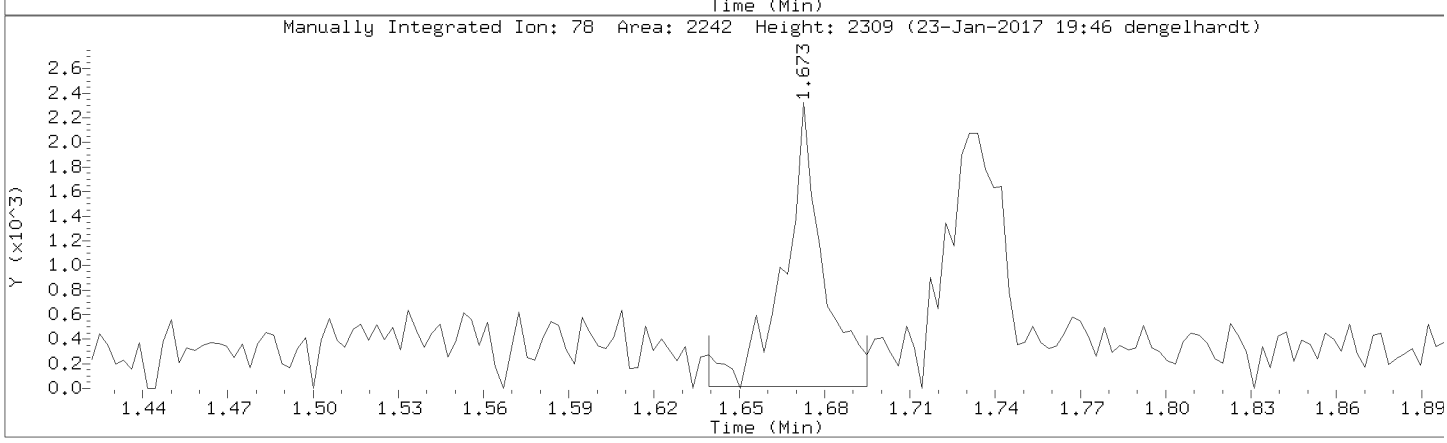
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Carbon Disulfide Review Code: LT
CAS Number: 75-15-0









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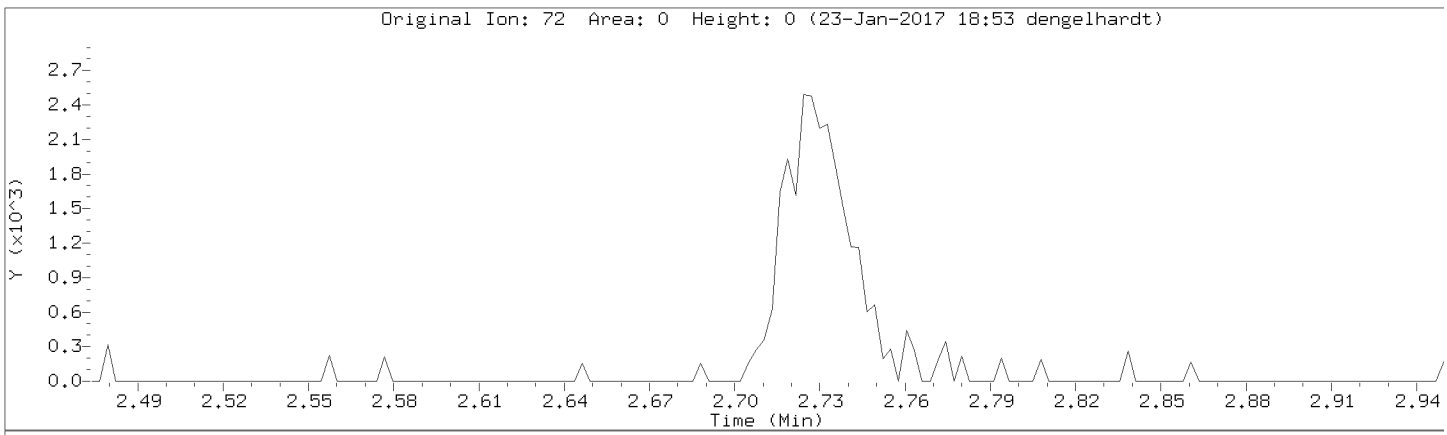
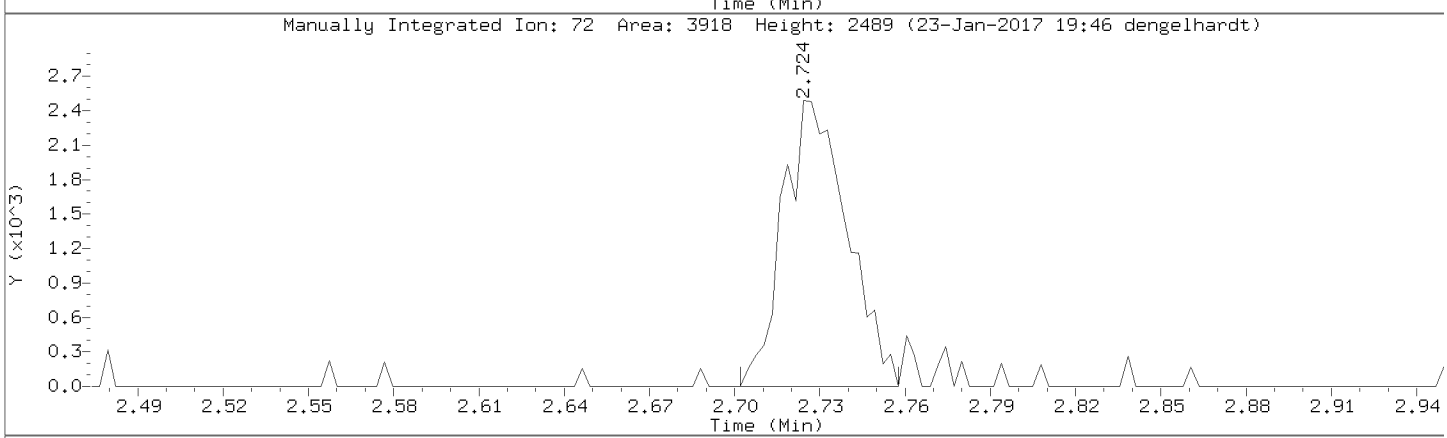
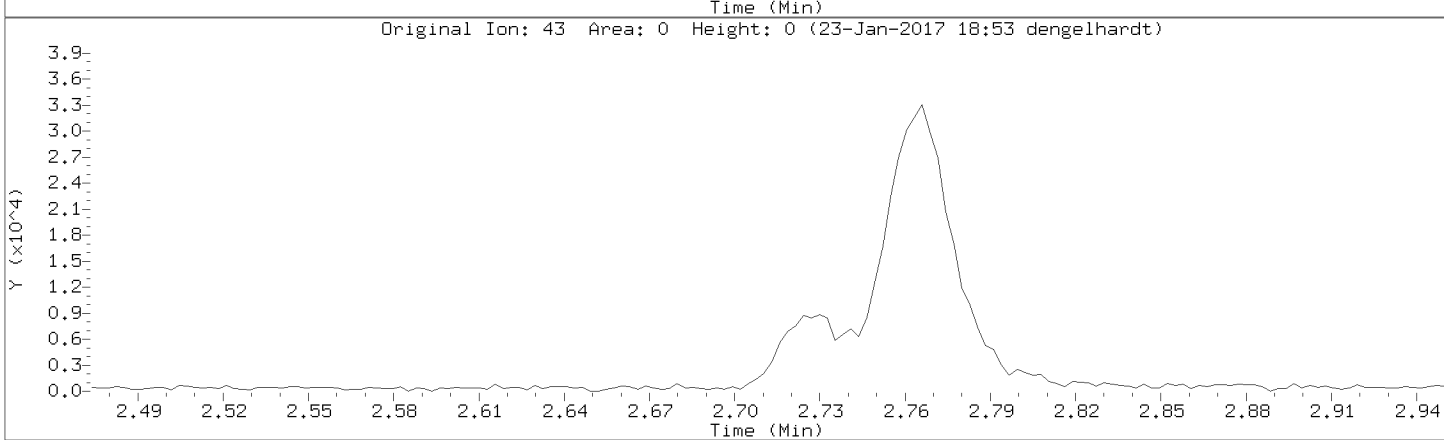
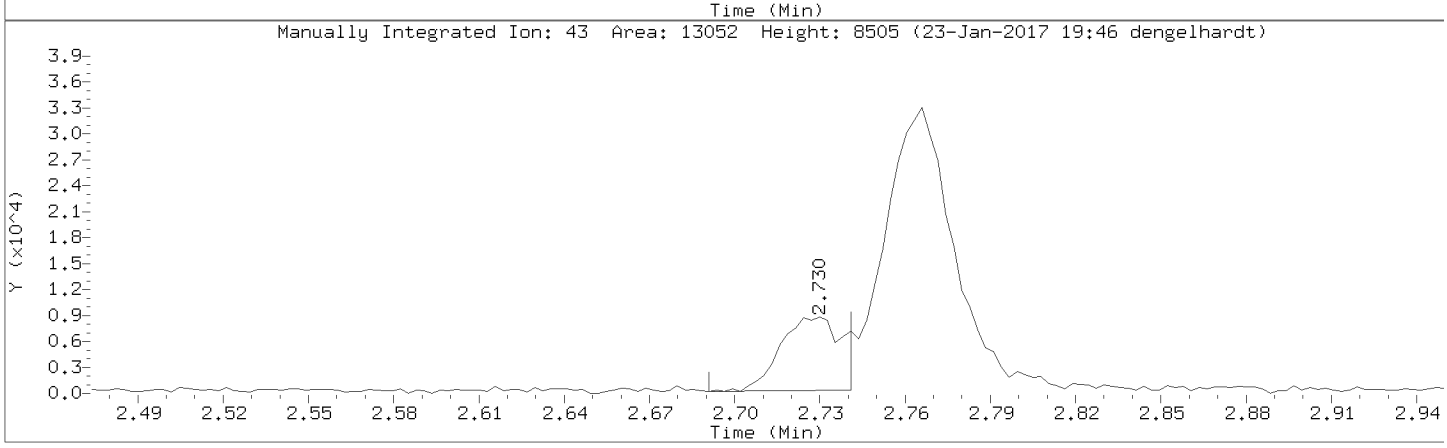
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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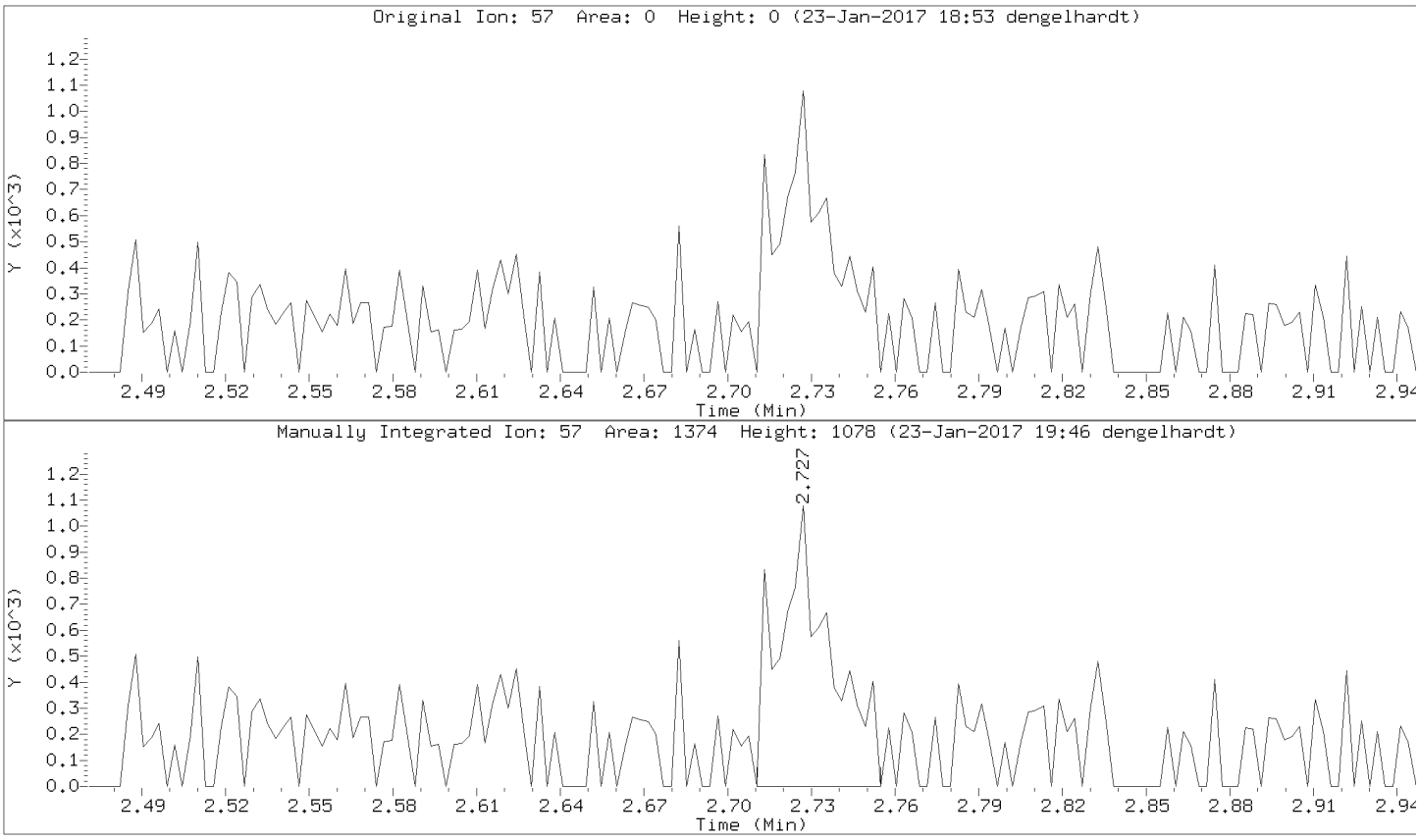
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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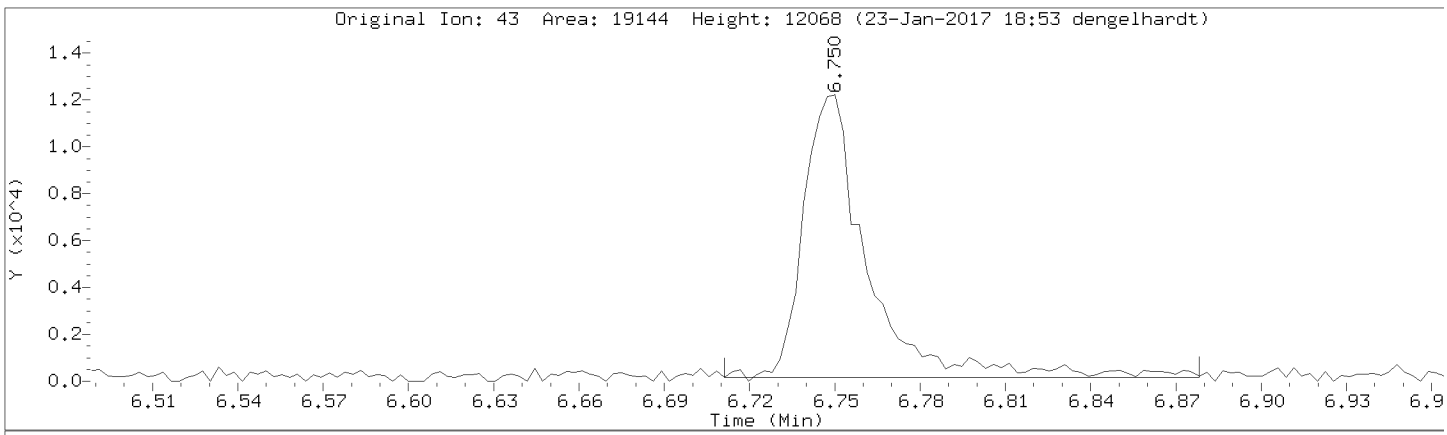
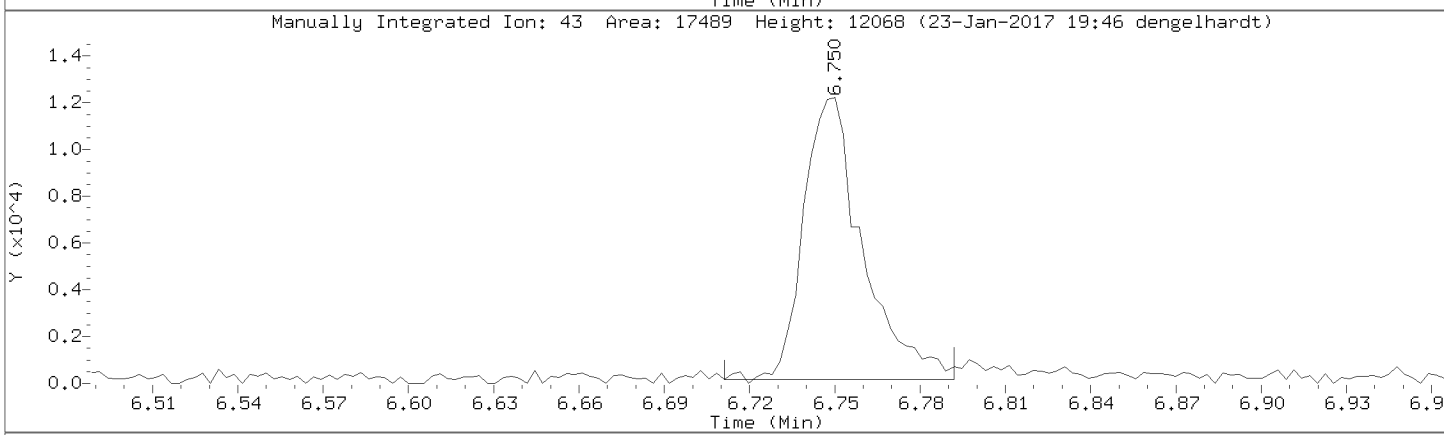
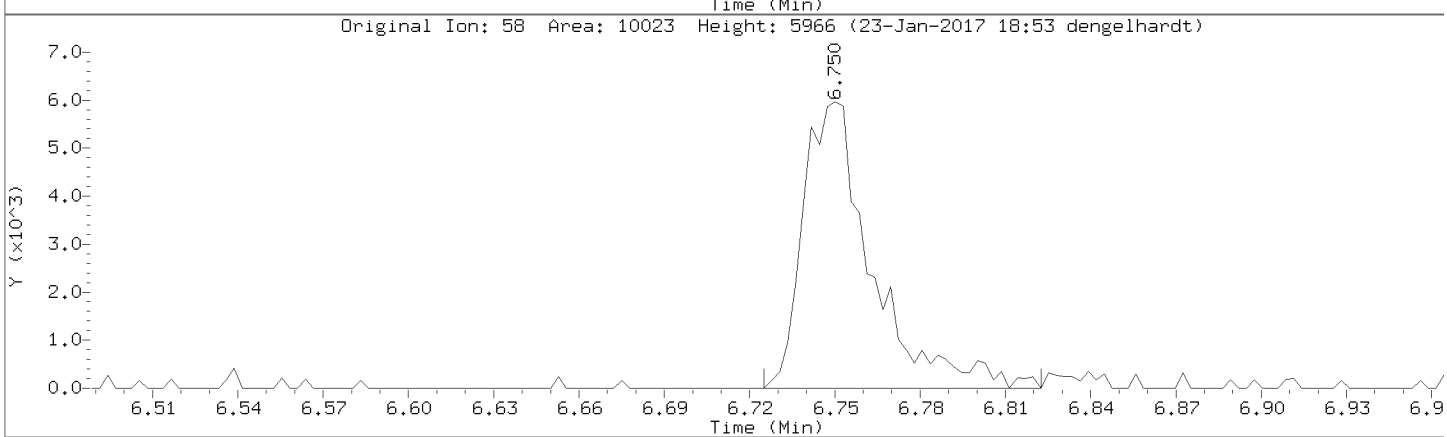
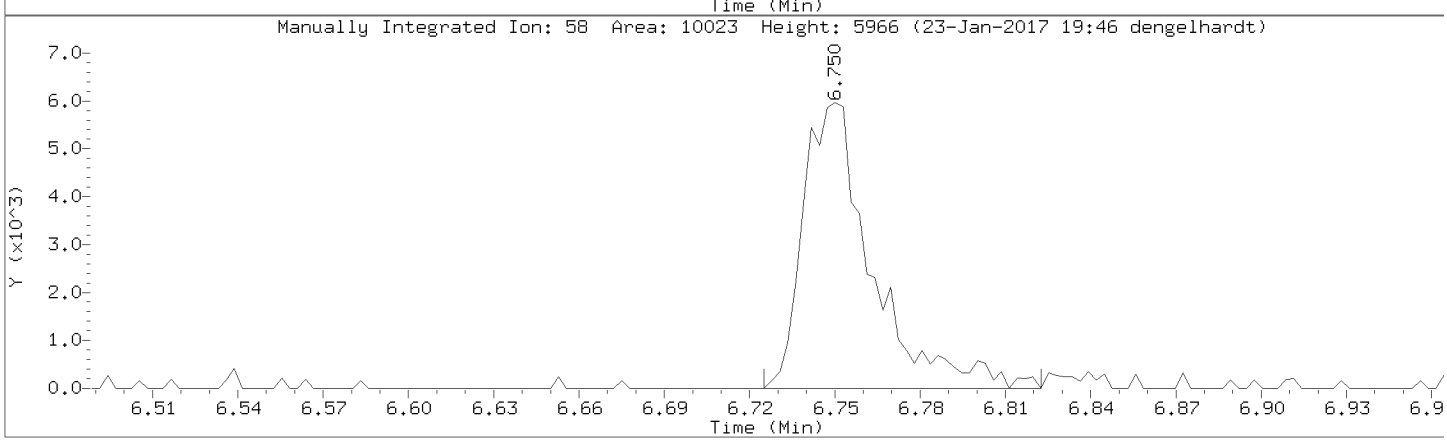
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 2-Hexanone Review Code: GT
CAS Number: 591-78-6









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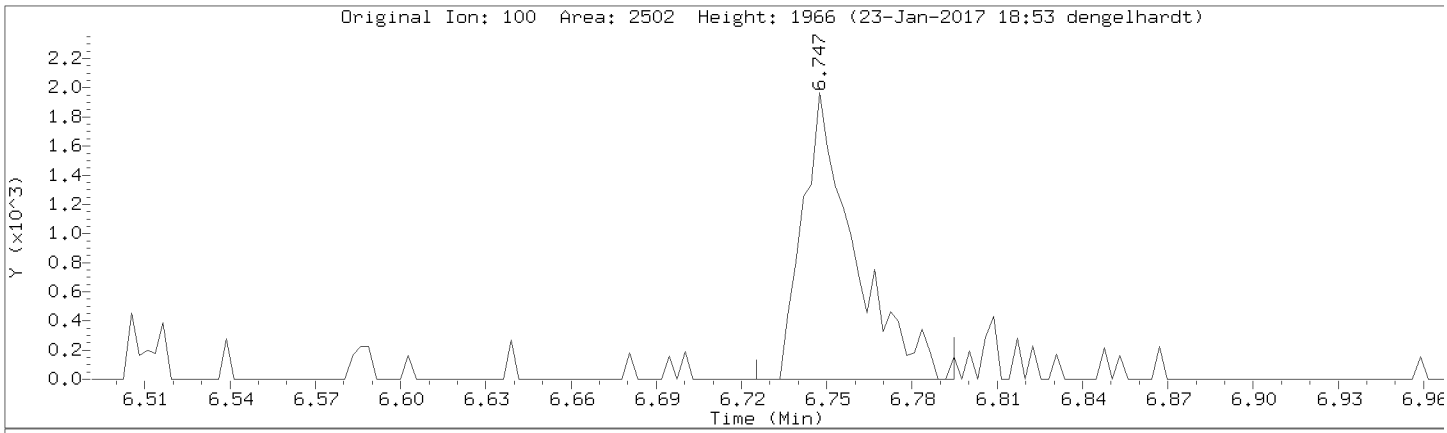
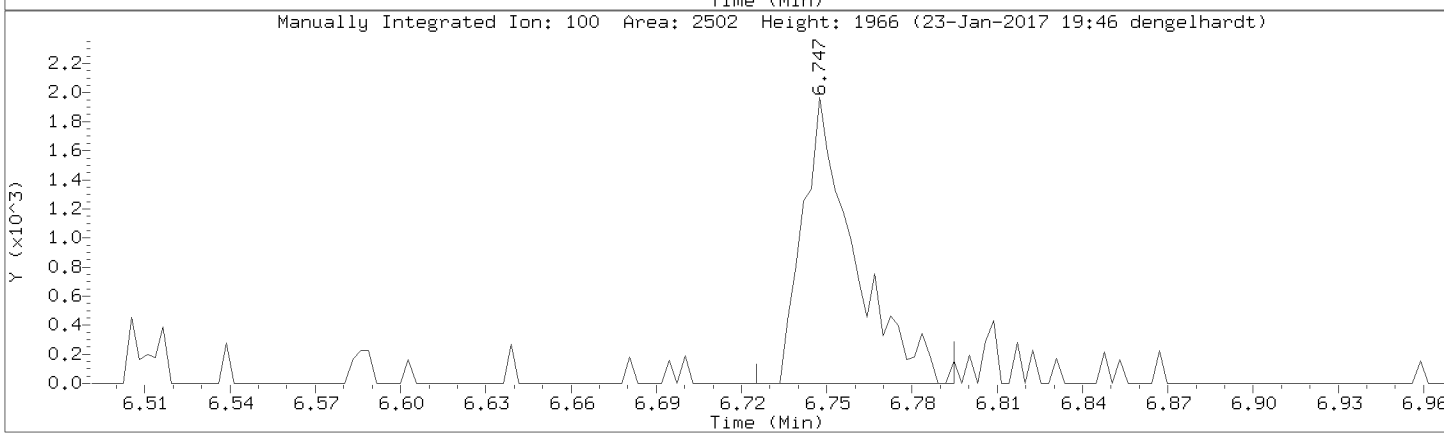
Lab Sample ID: 8260-CAL3





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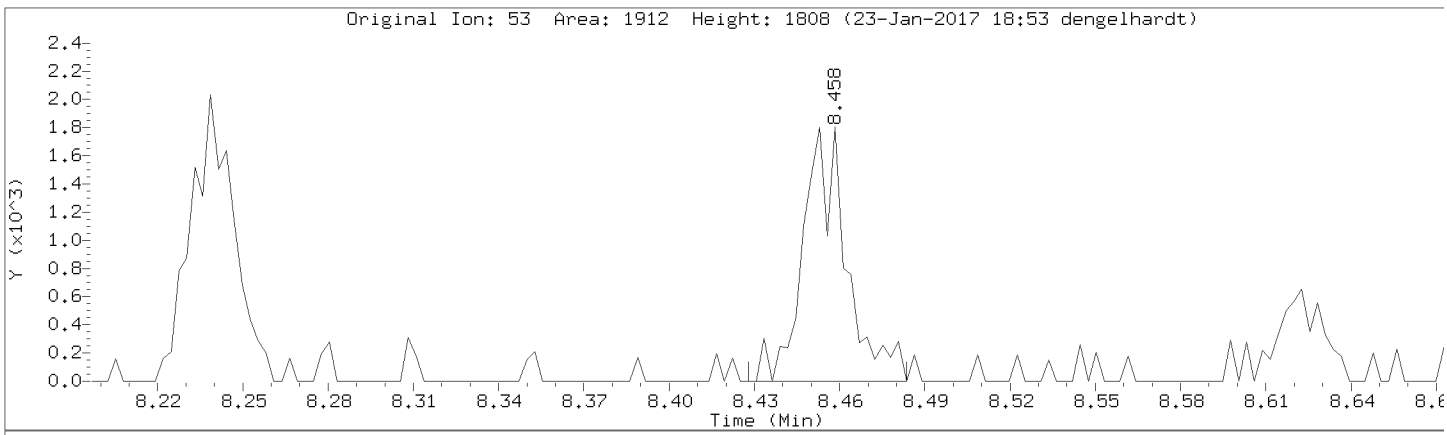
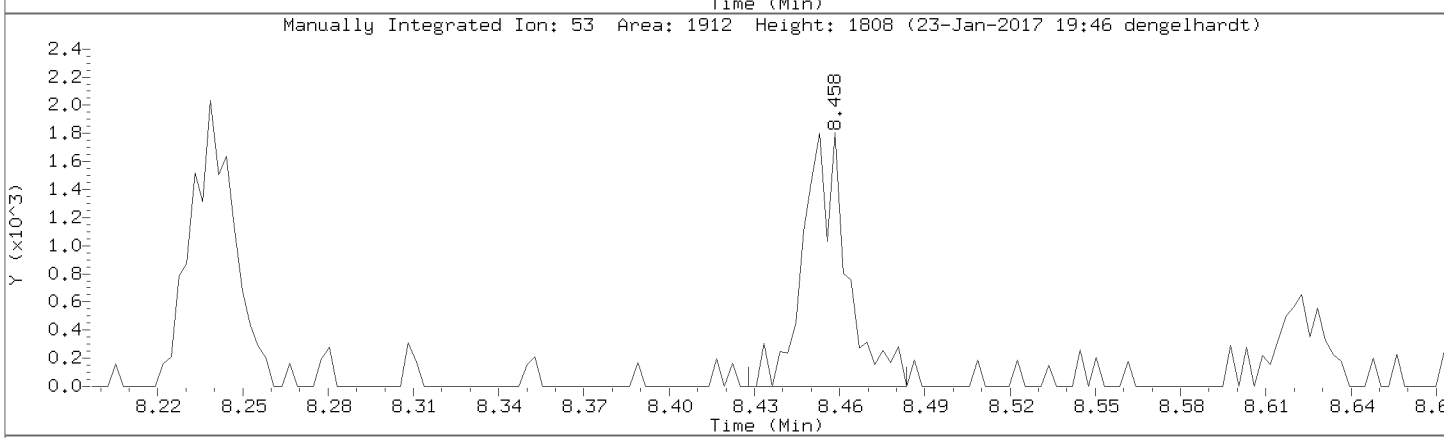
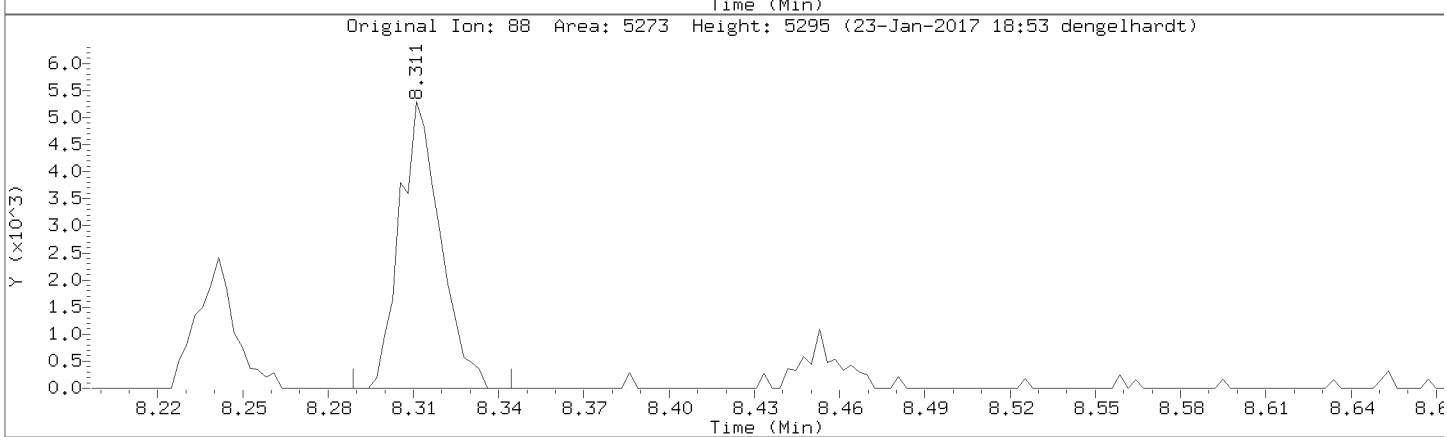
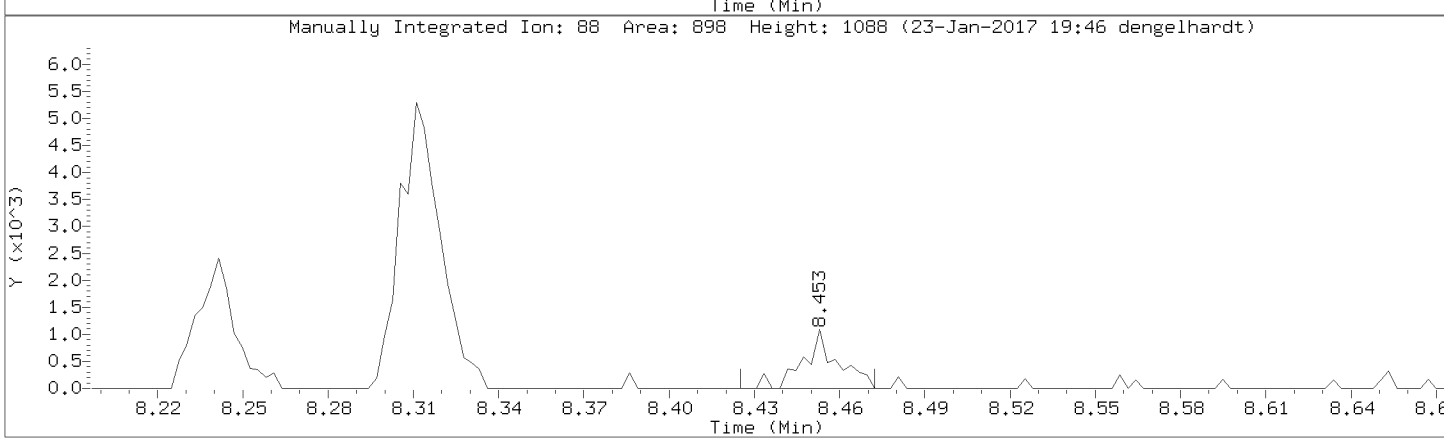
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:









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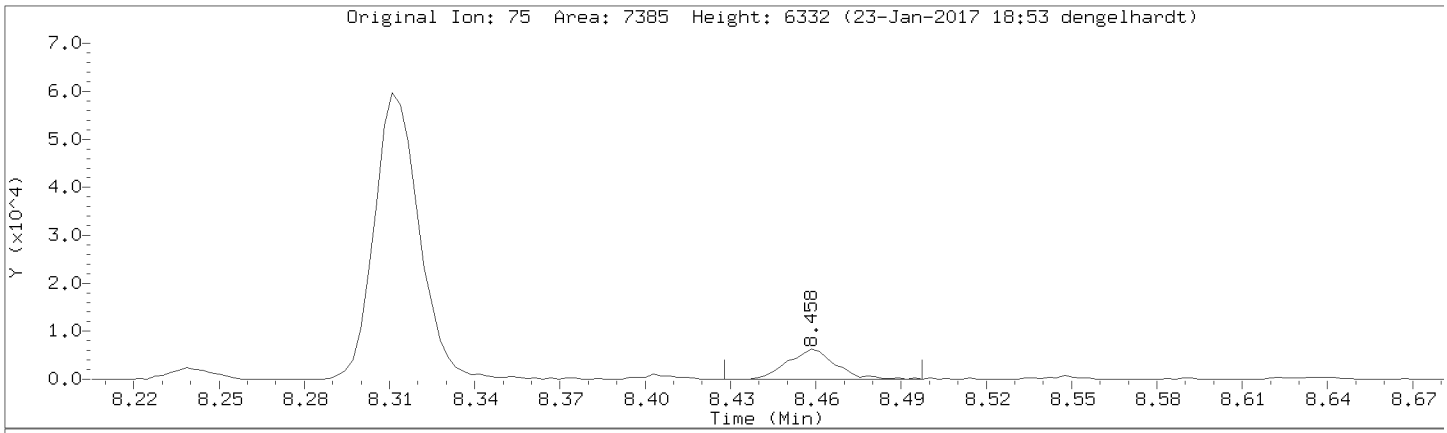
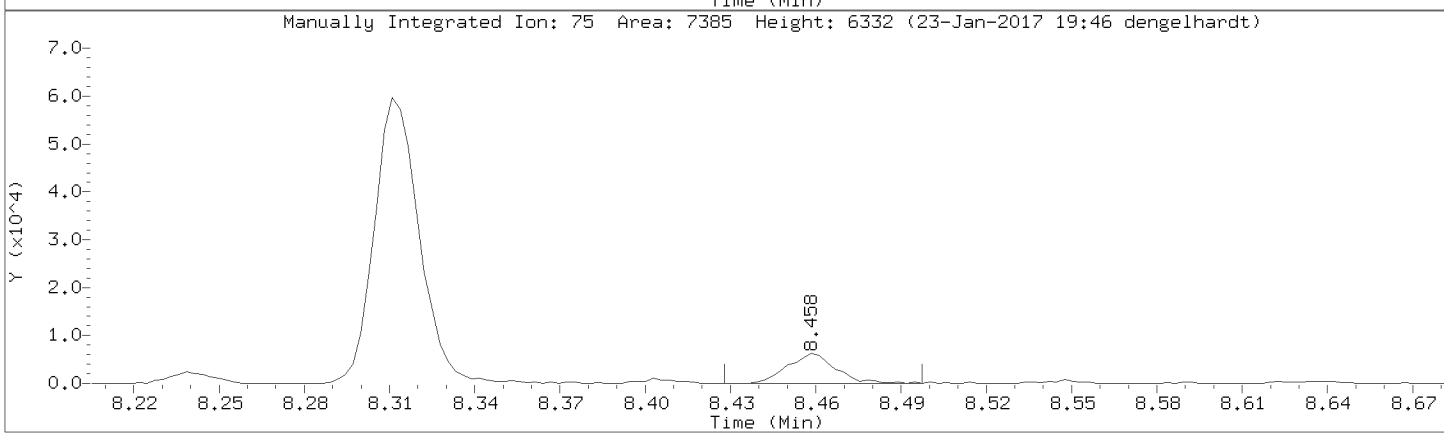
Lab Sample ID: 8260-CAL3





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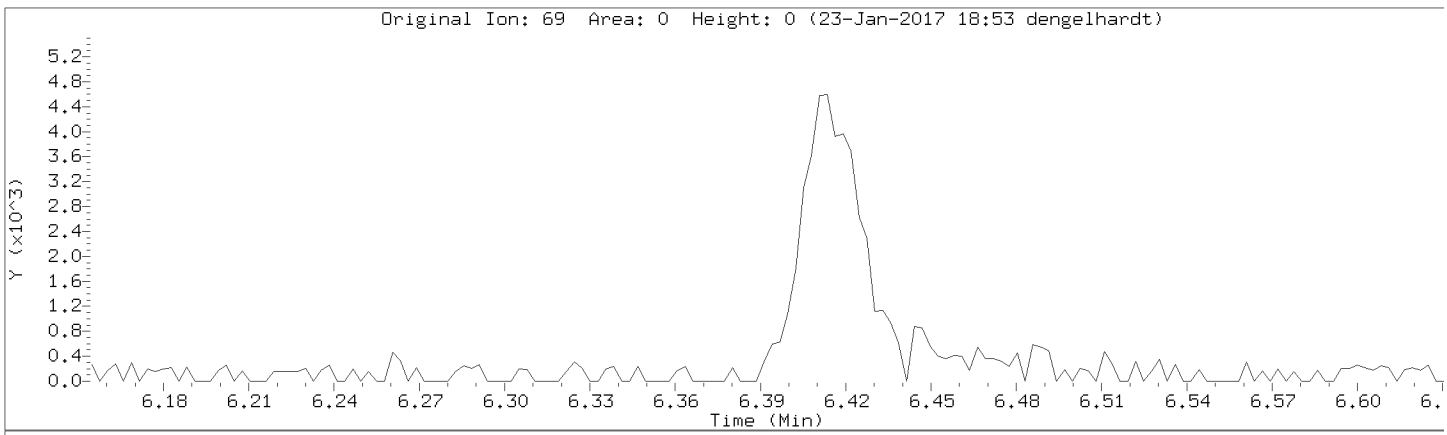
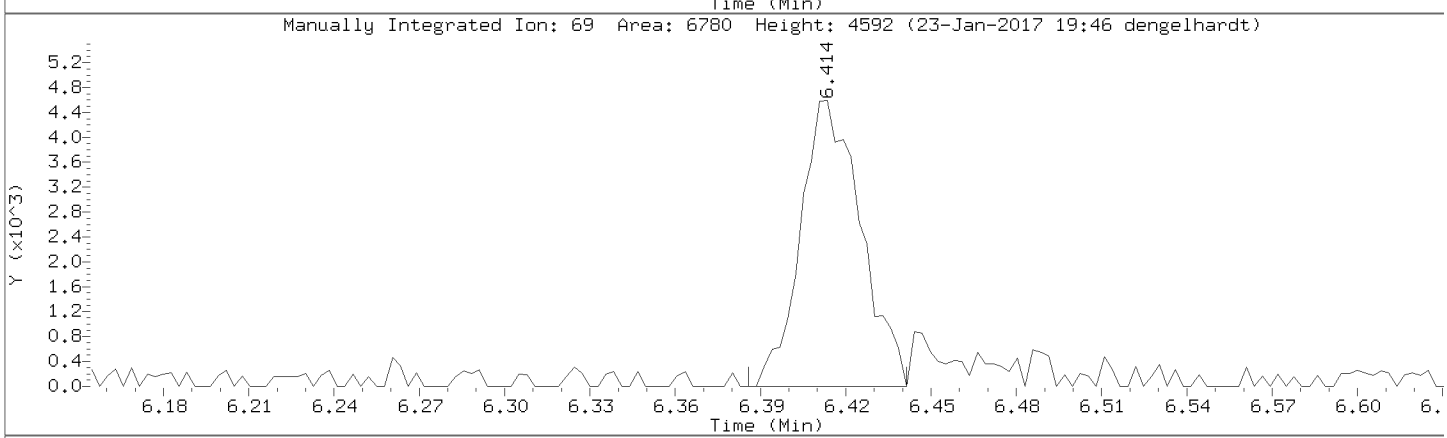
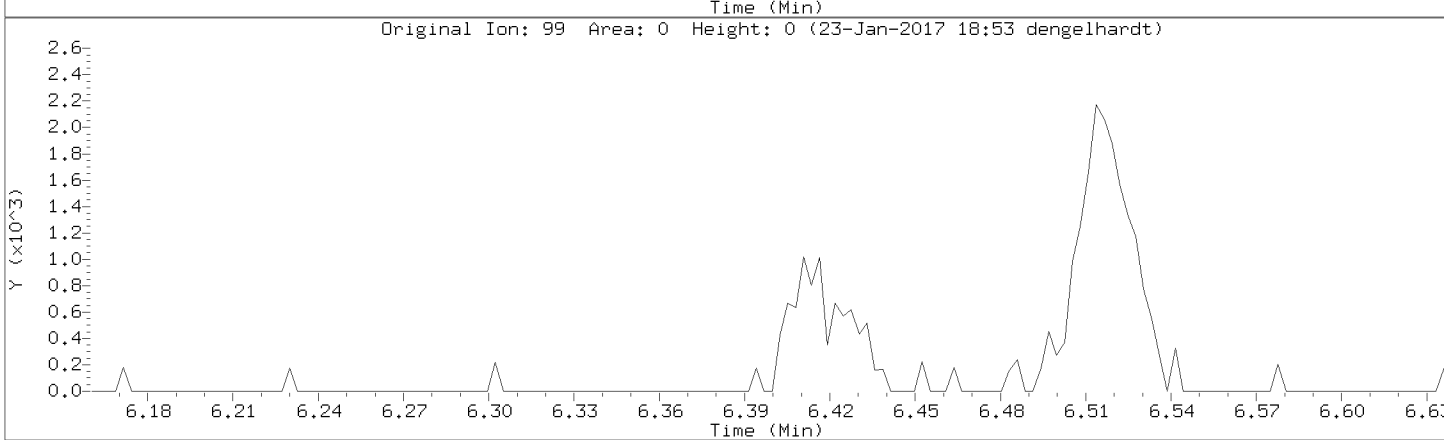
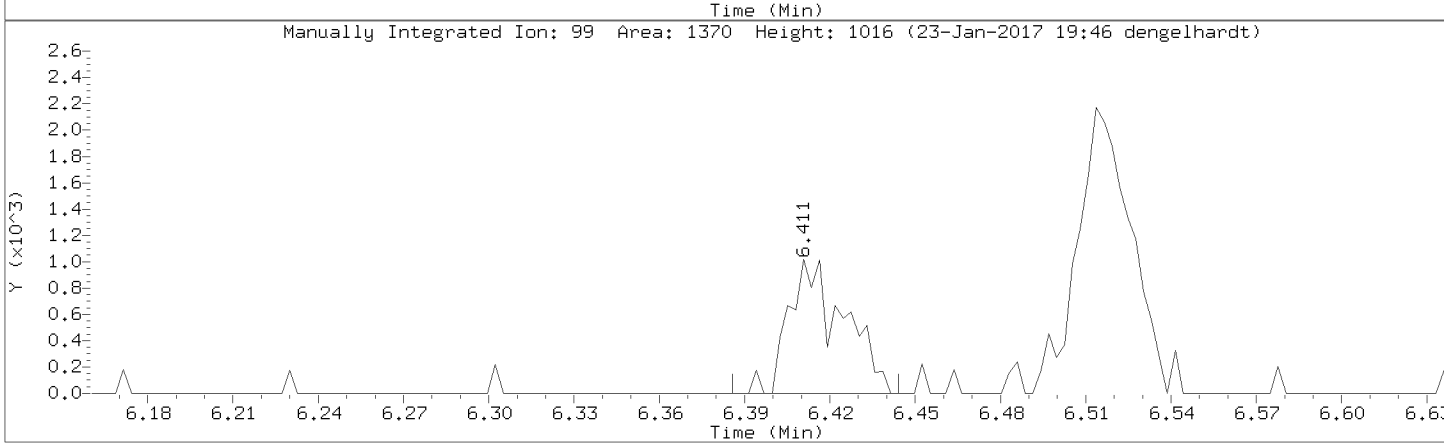
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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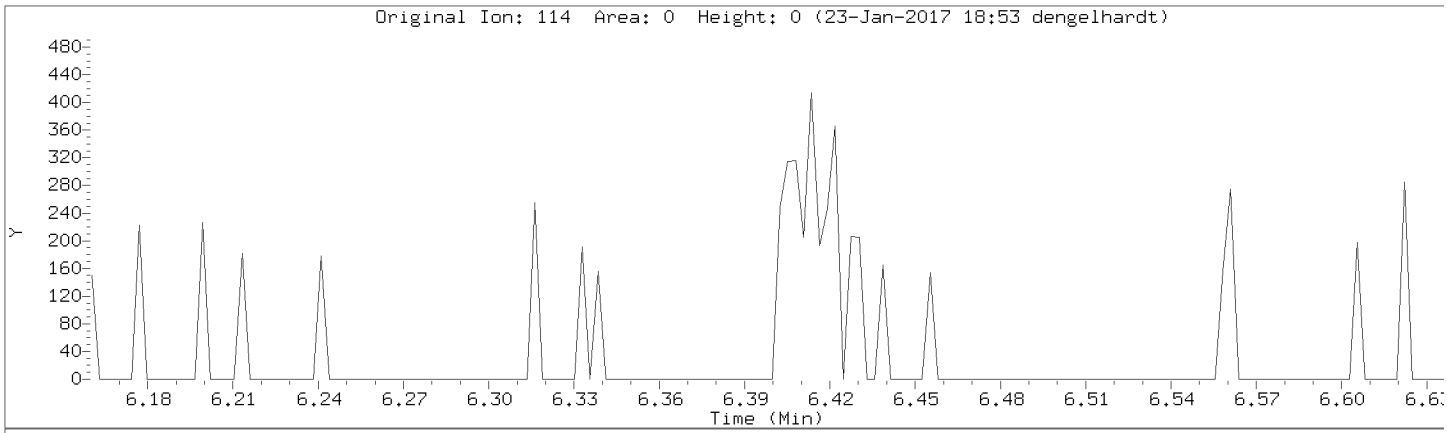
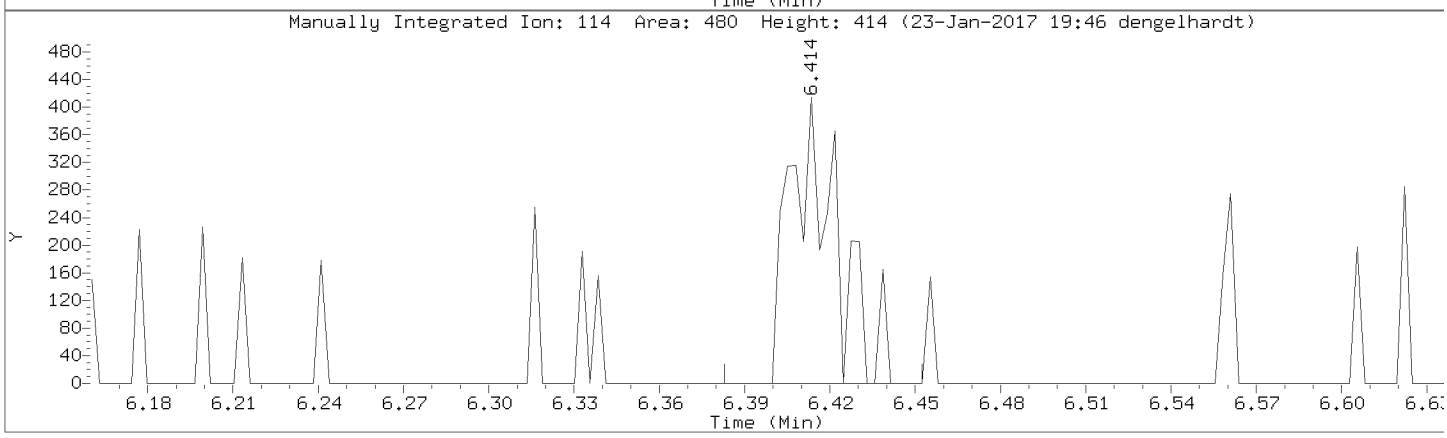
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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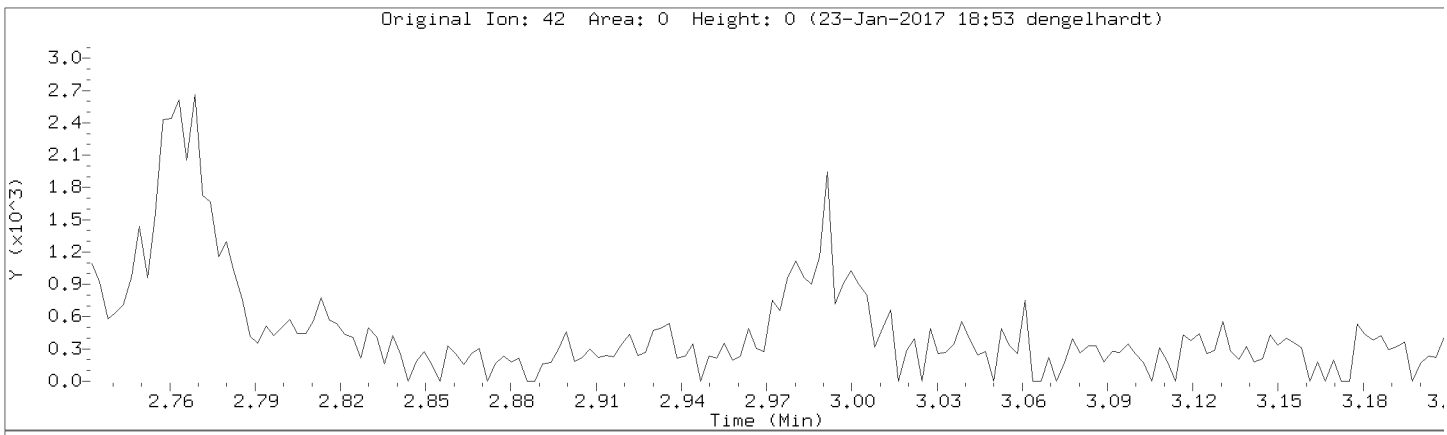
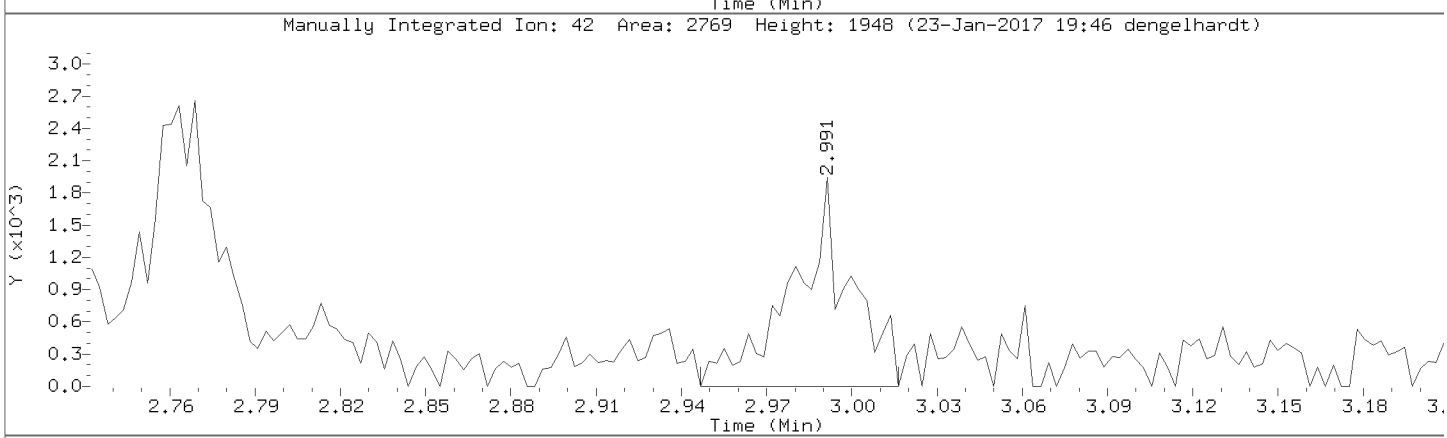
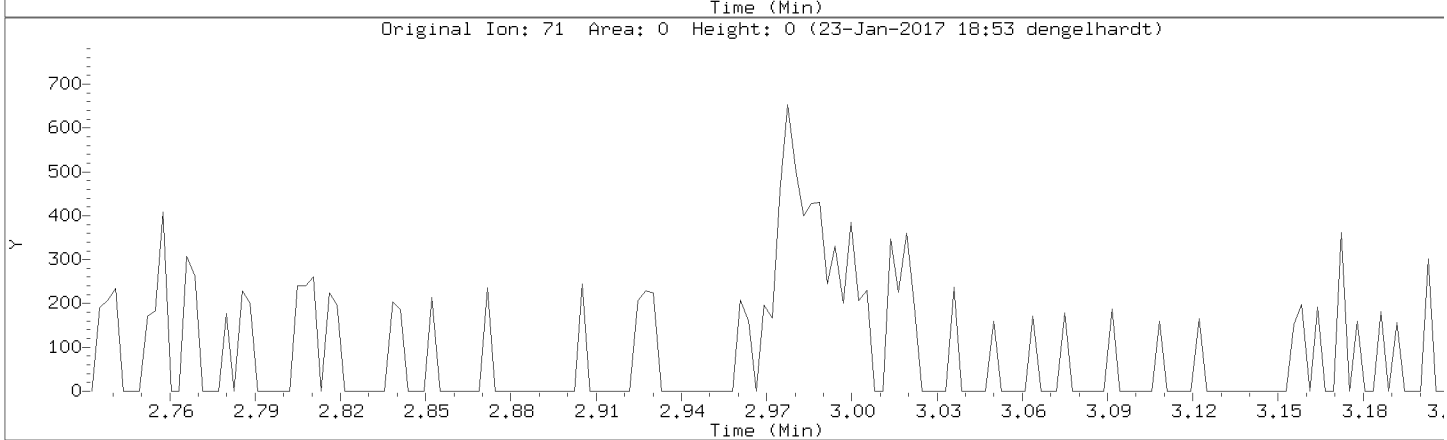
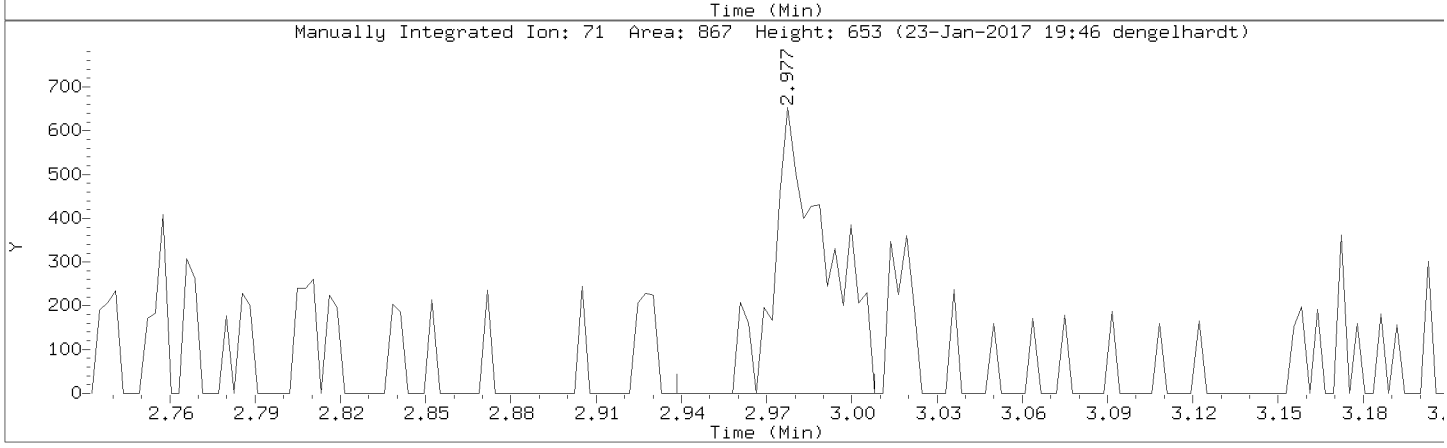
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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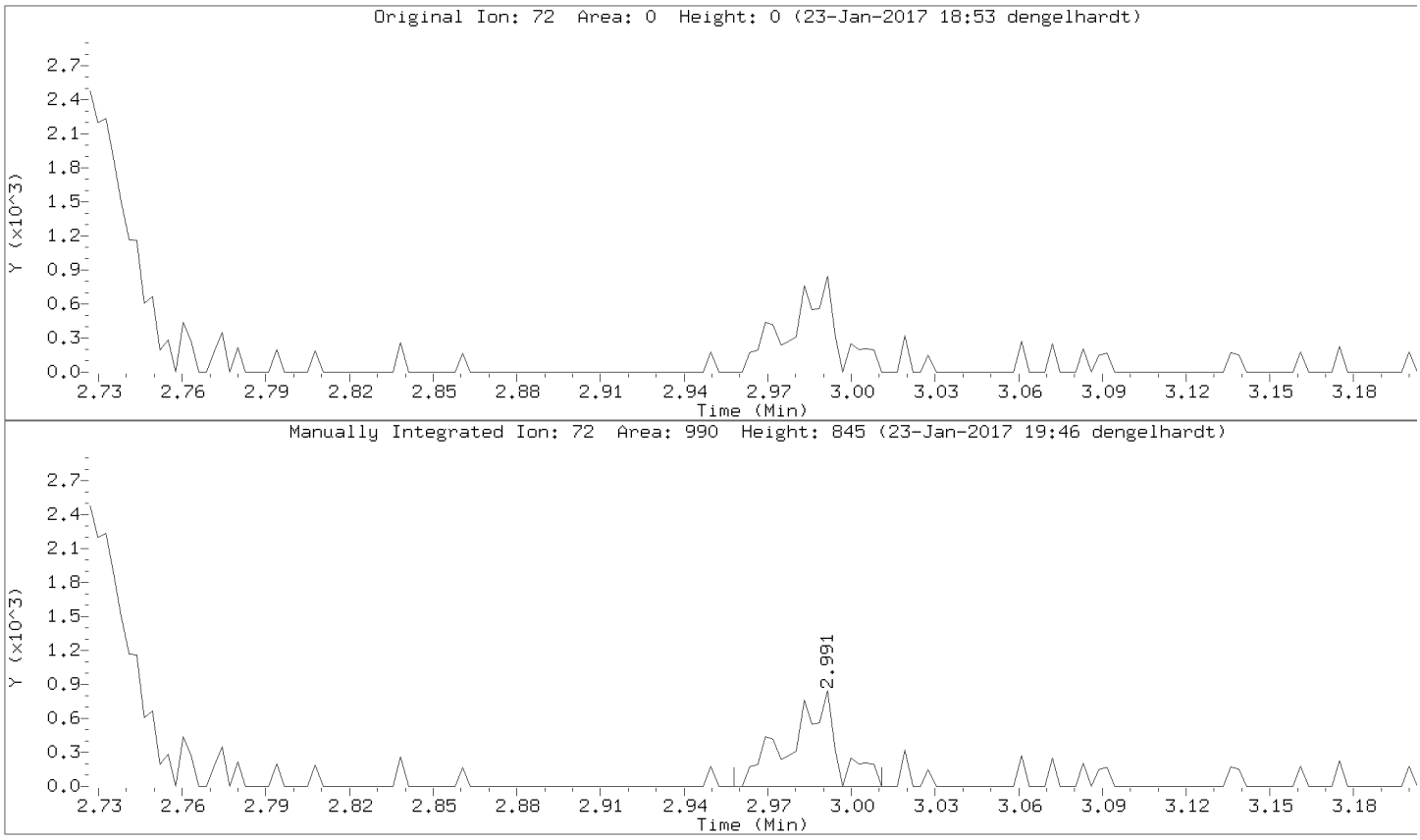
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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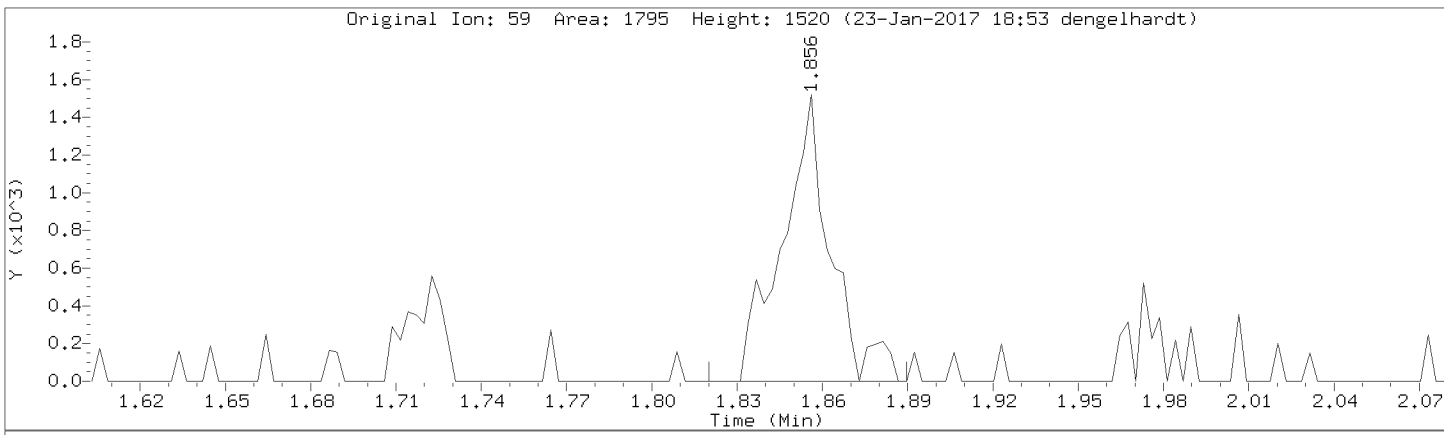
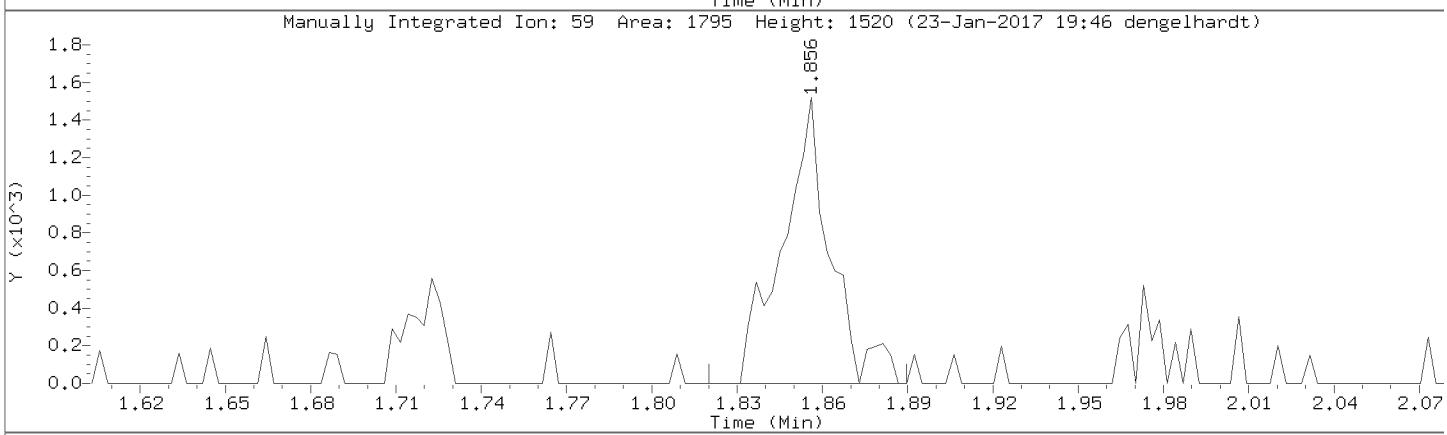
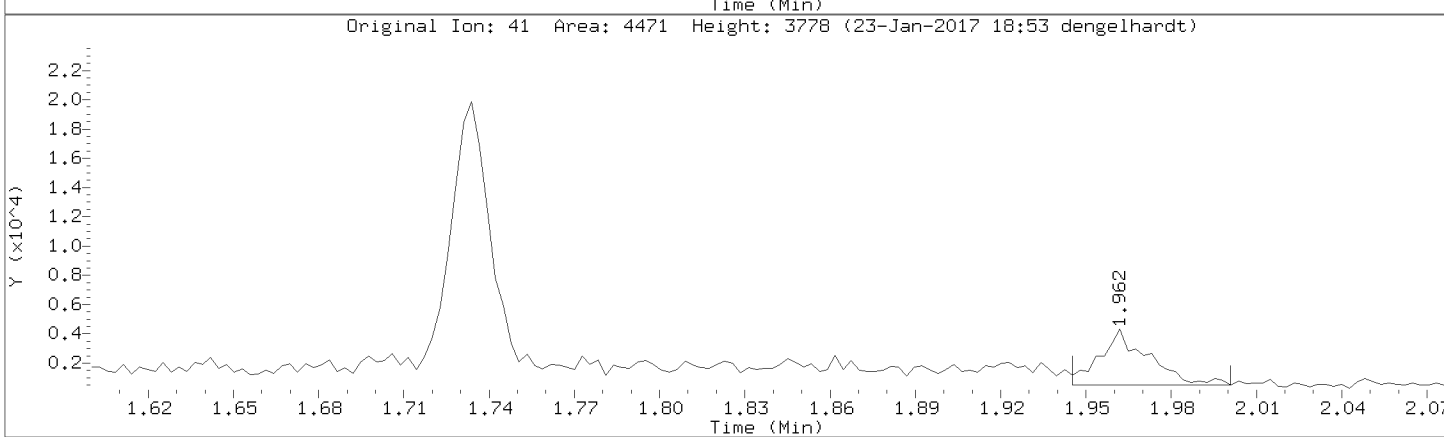
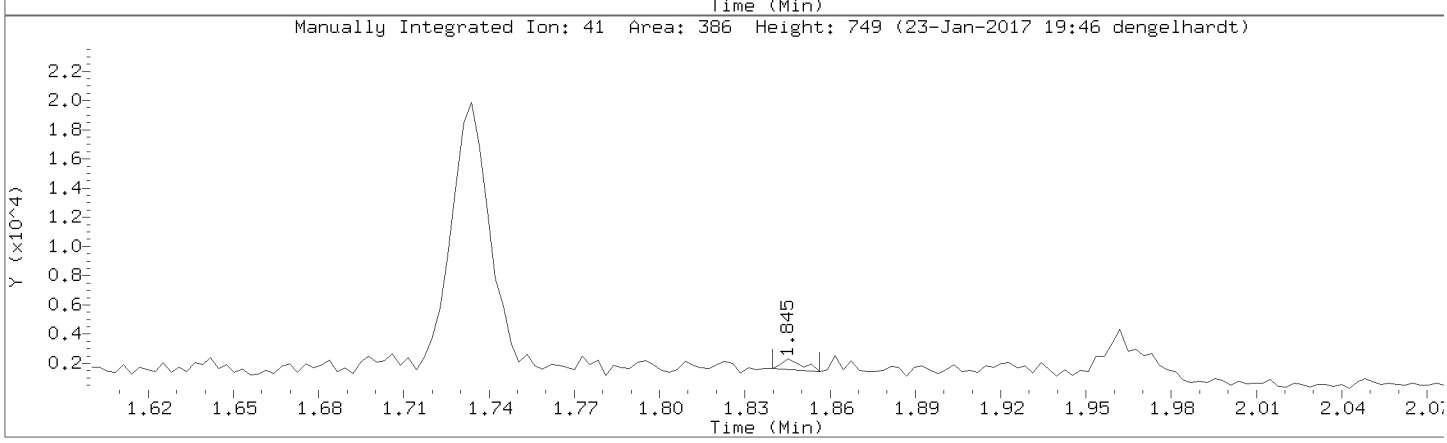
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butyl Alcohol Review Code:
CAS Number: 75-65-0









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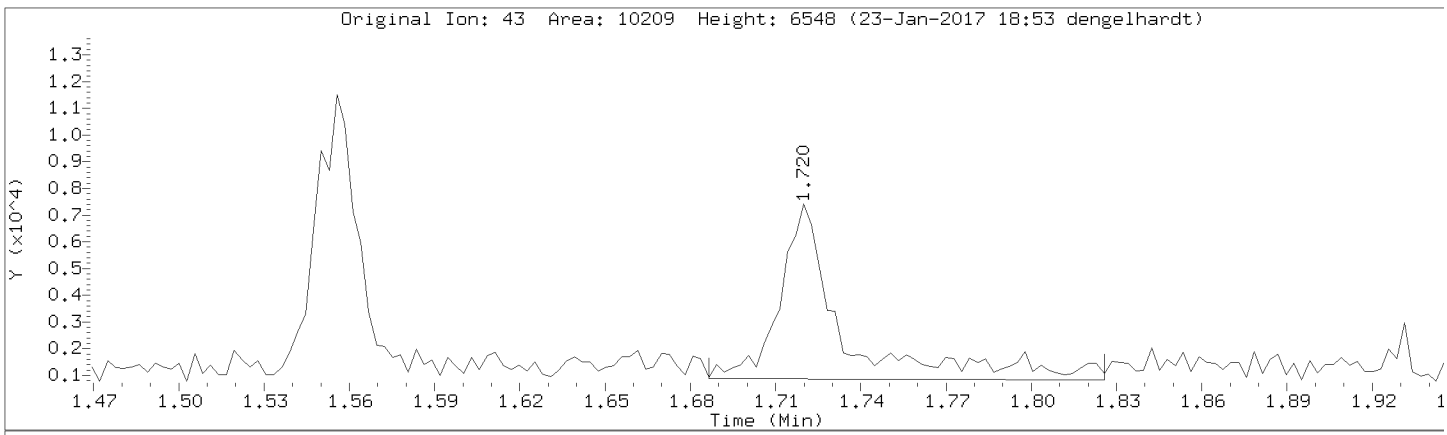
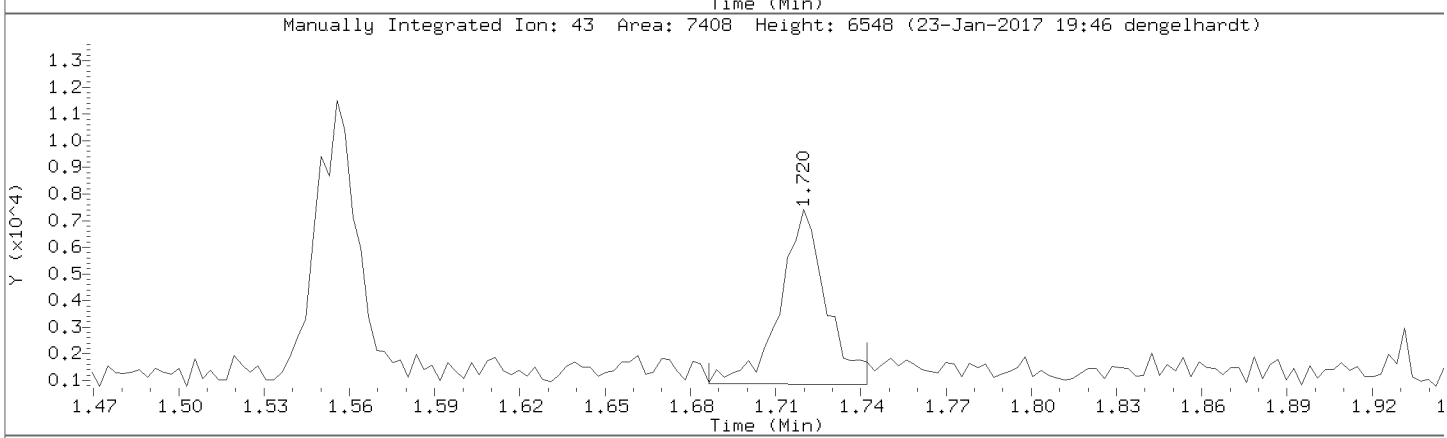
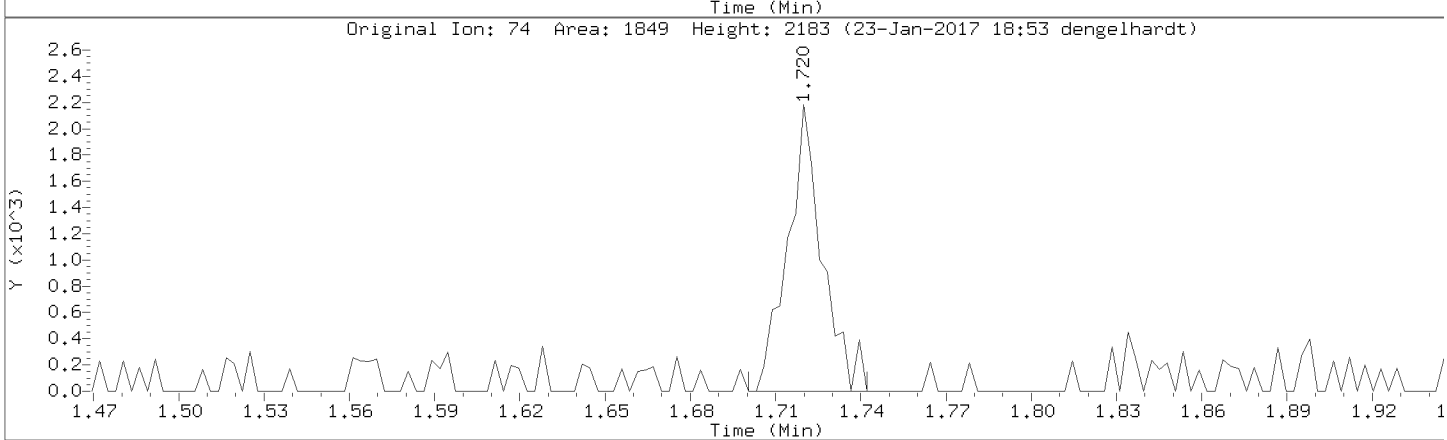
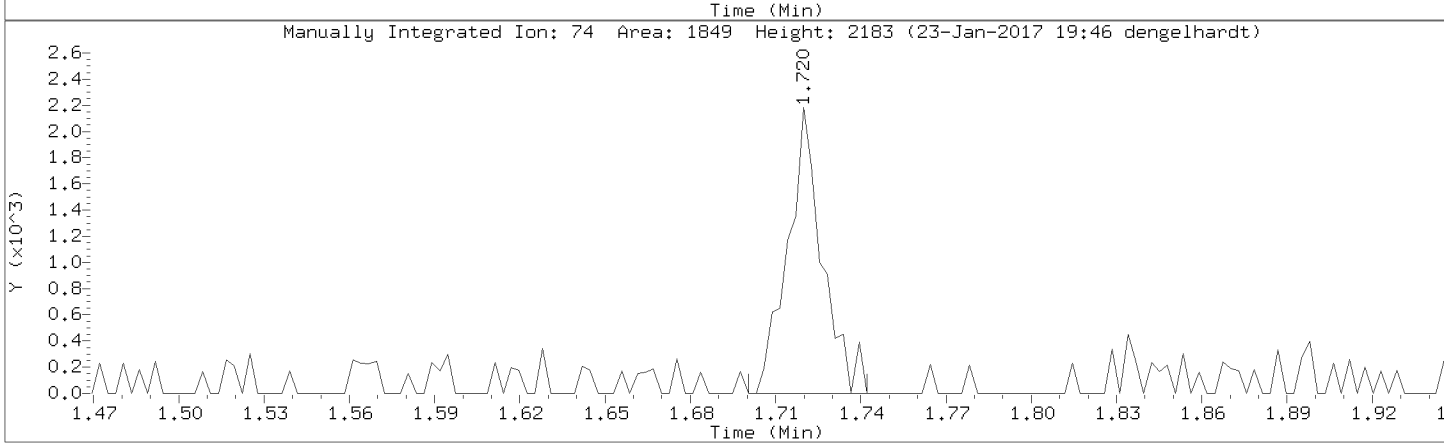
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9









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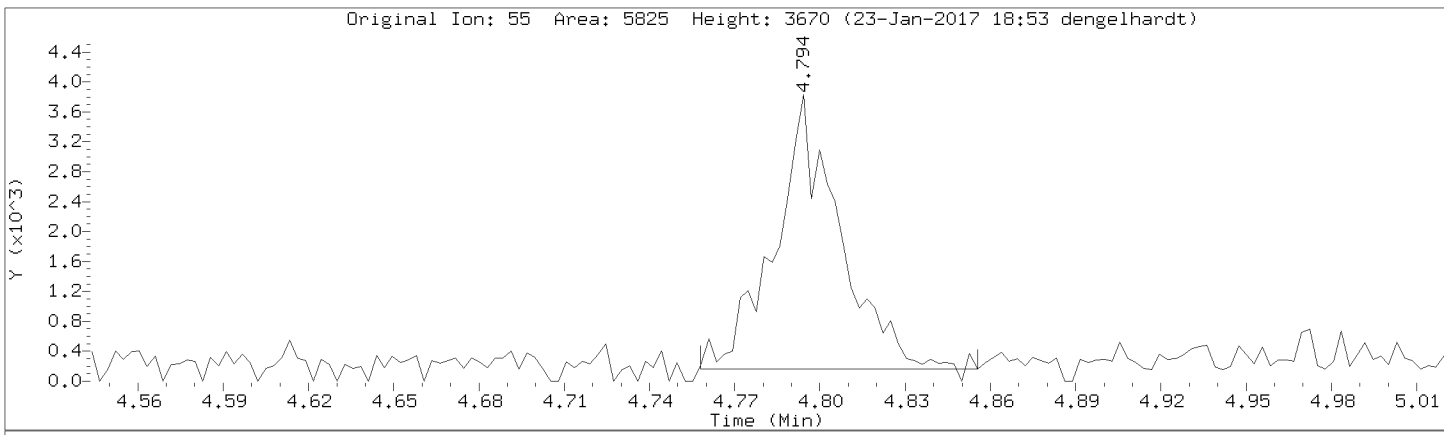
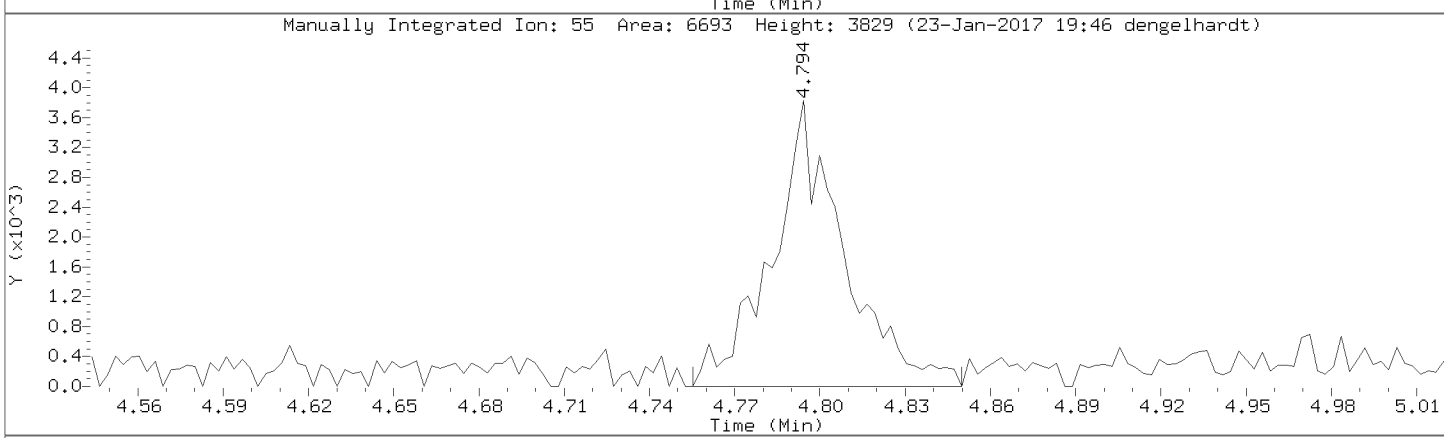
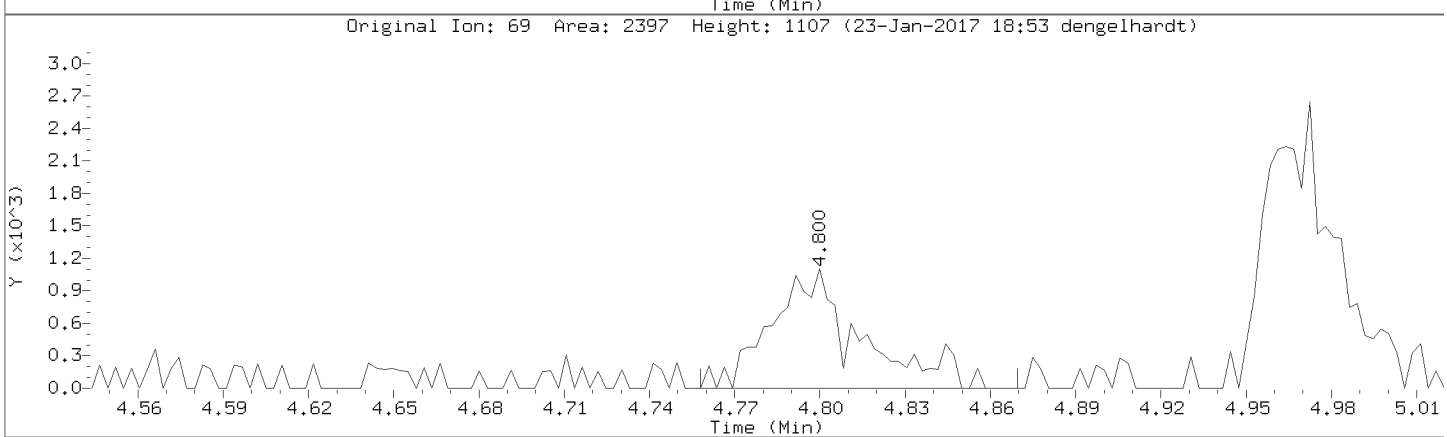
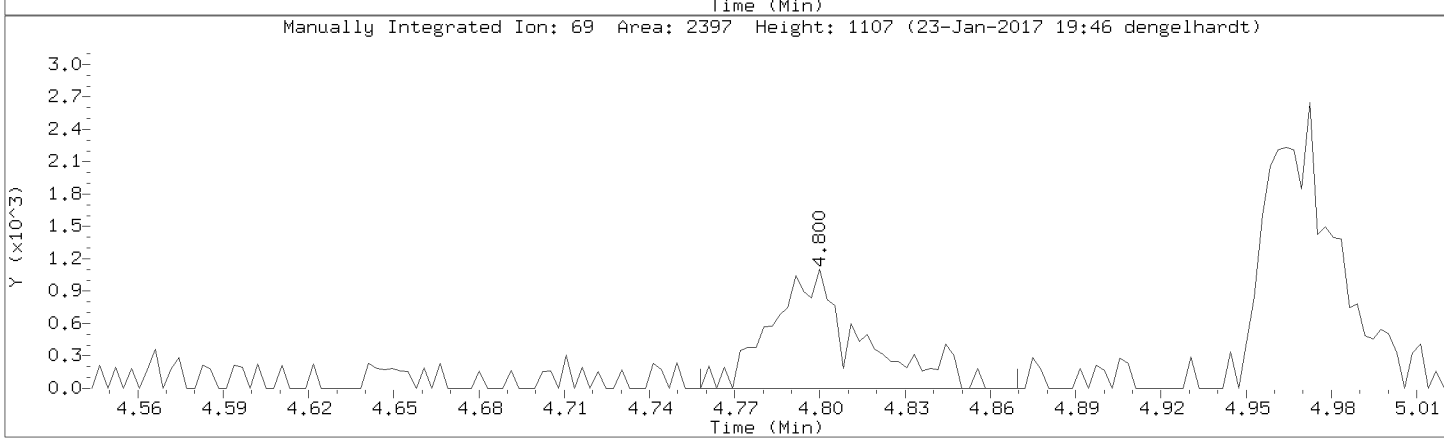
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Methylcyclohexane Review Code: LT
CAS Number: 108-87-2









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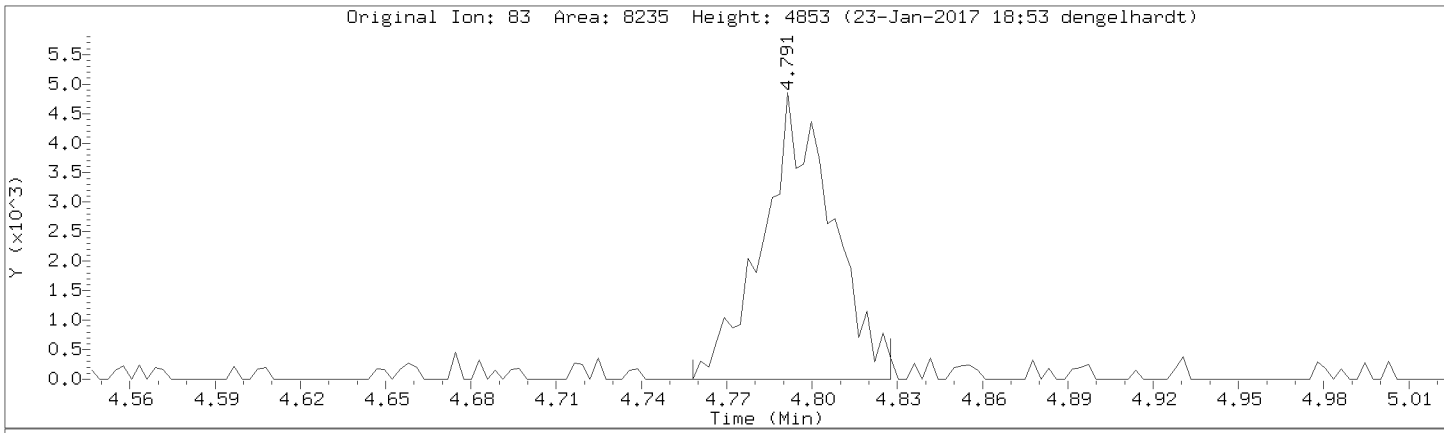
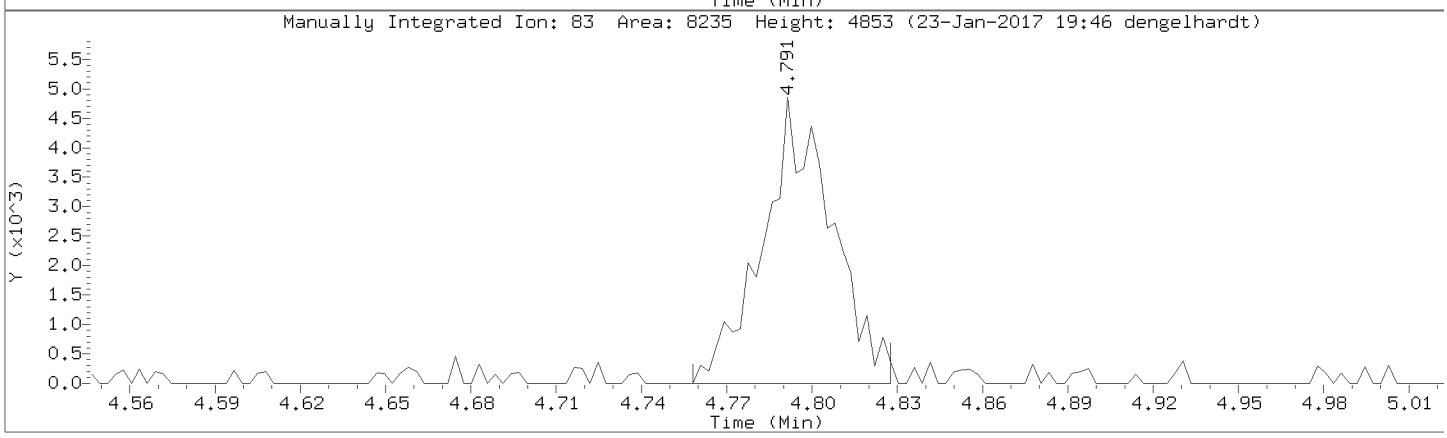
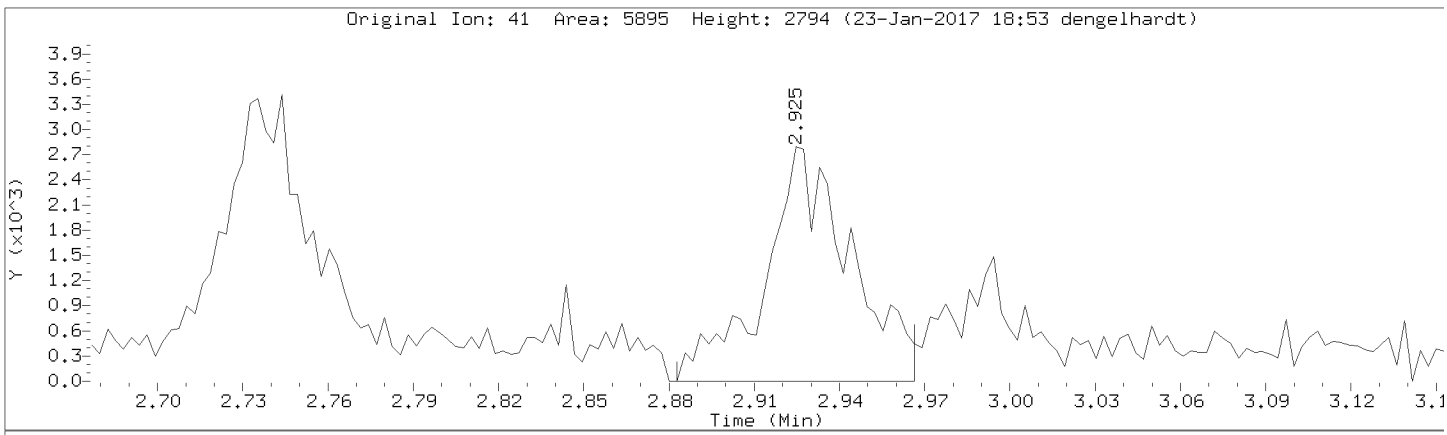
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

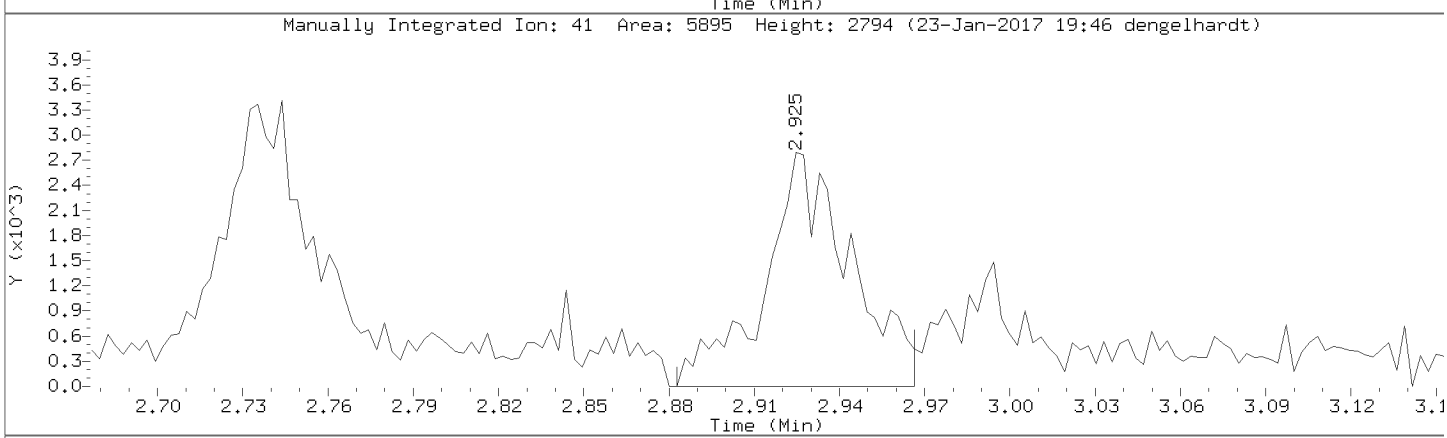


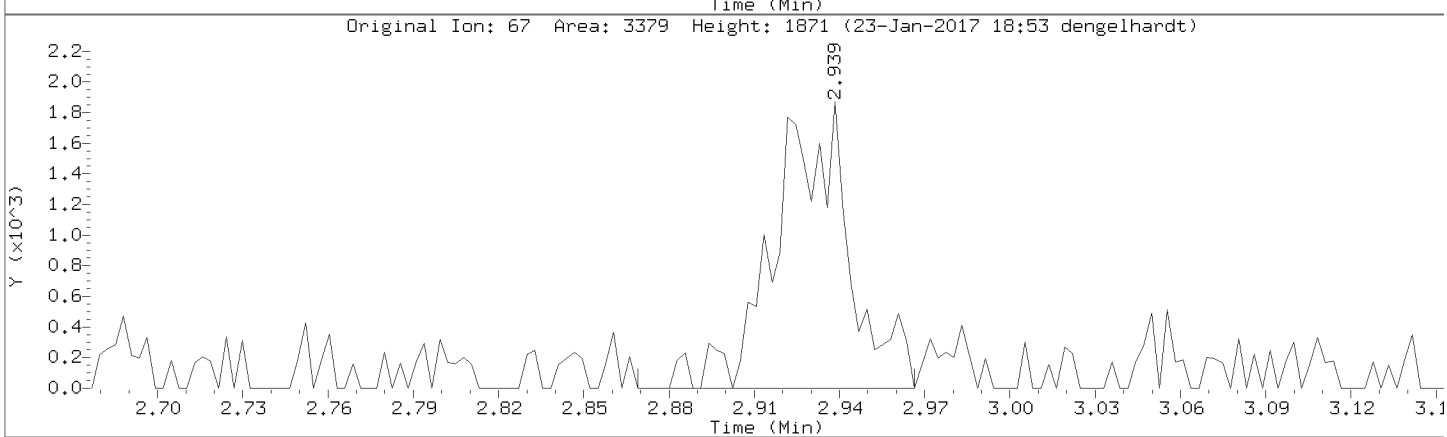


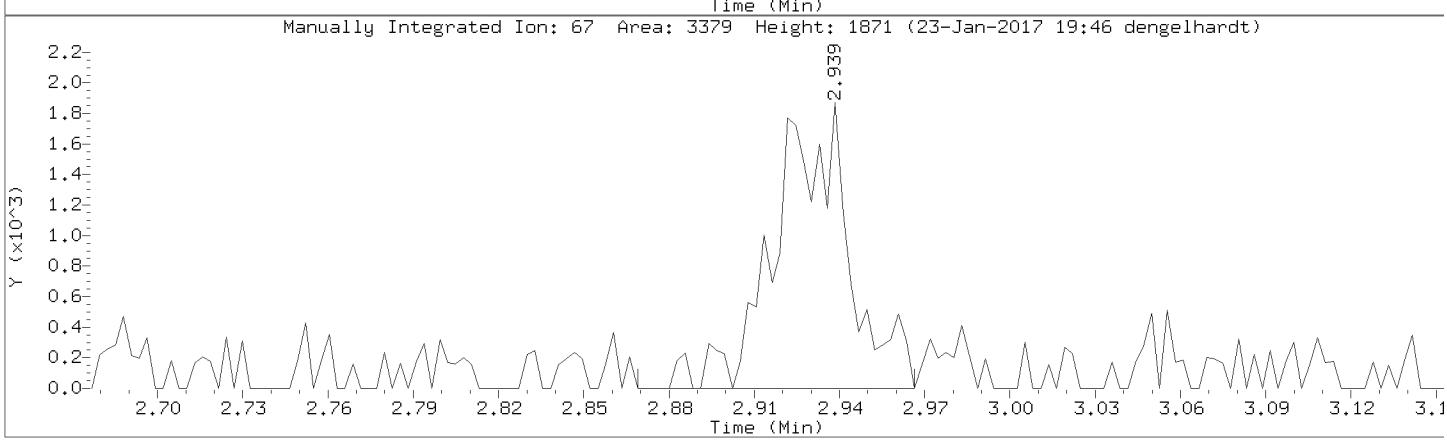
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a03cal3.d
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Methacrylonitrile Review Code: WP
CAS Number: 126-98-7









Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a03cal3.d
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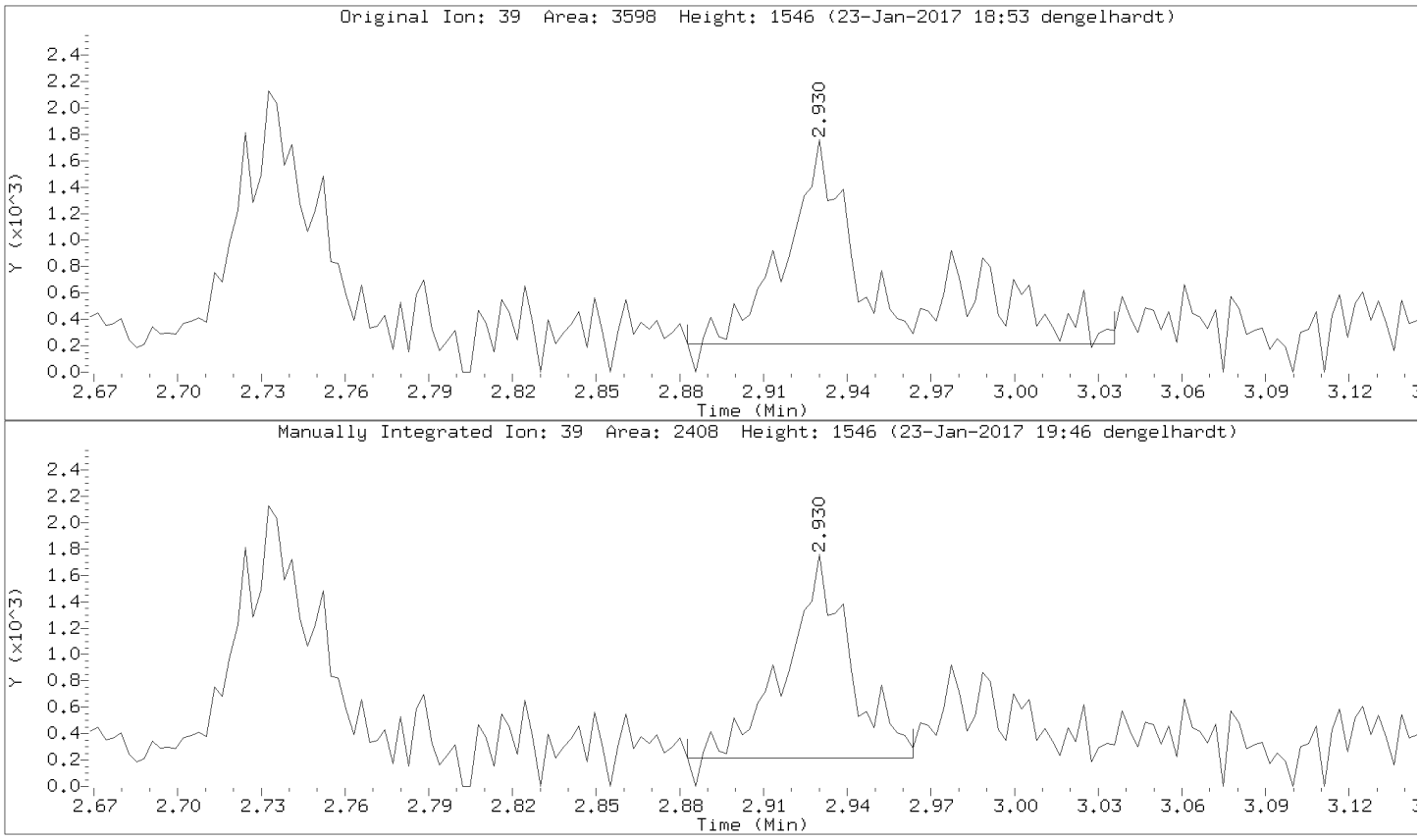
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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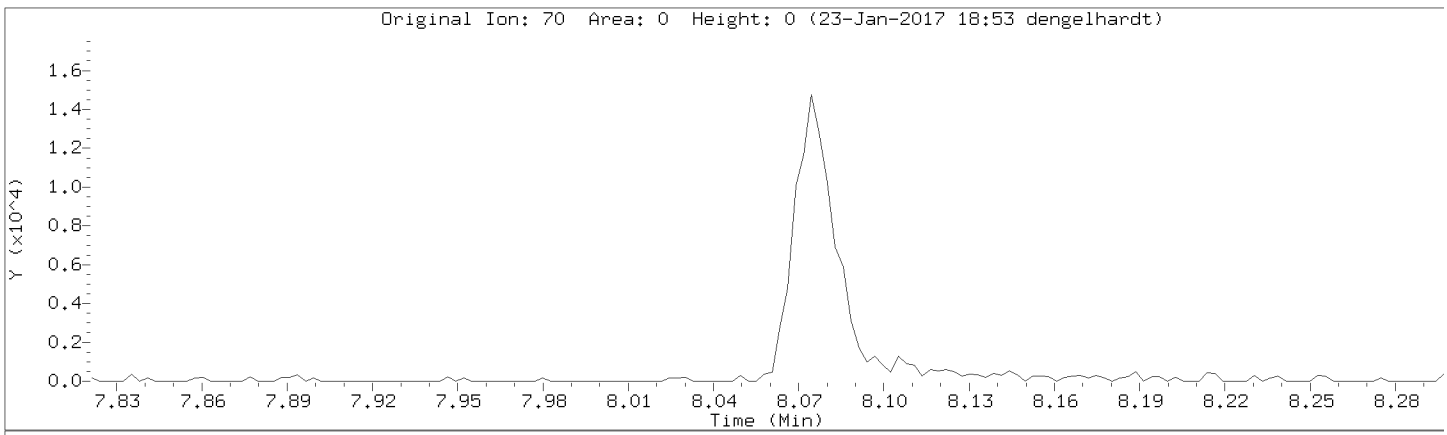
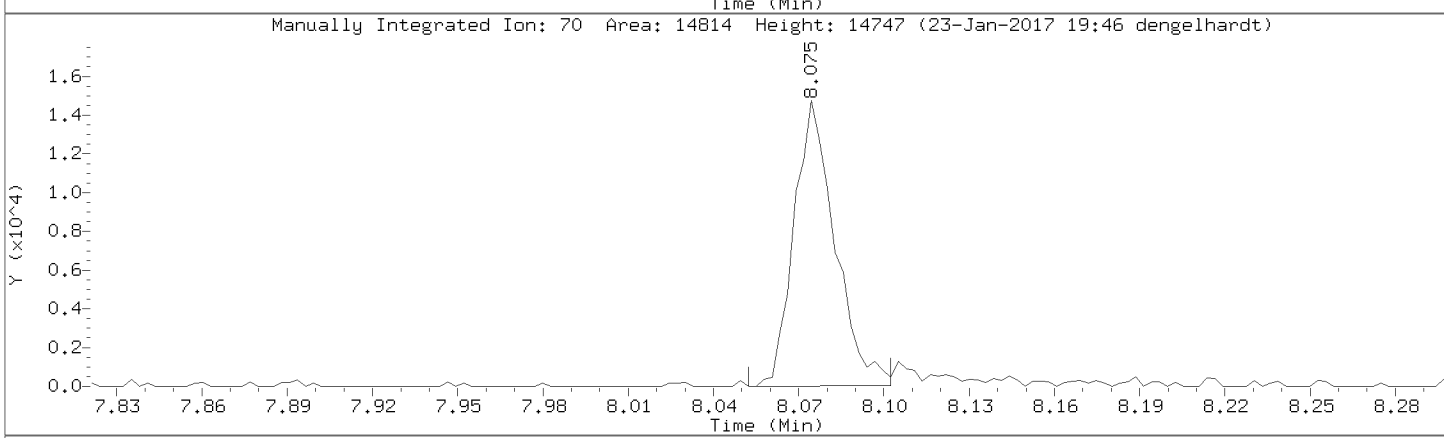
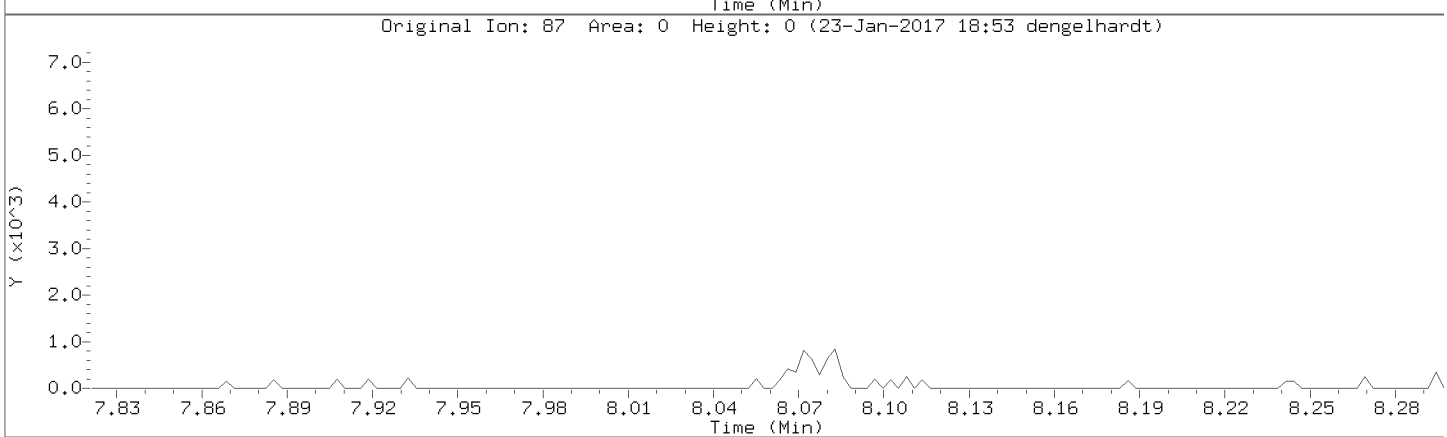
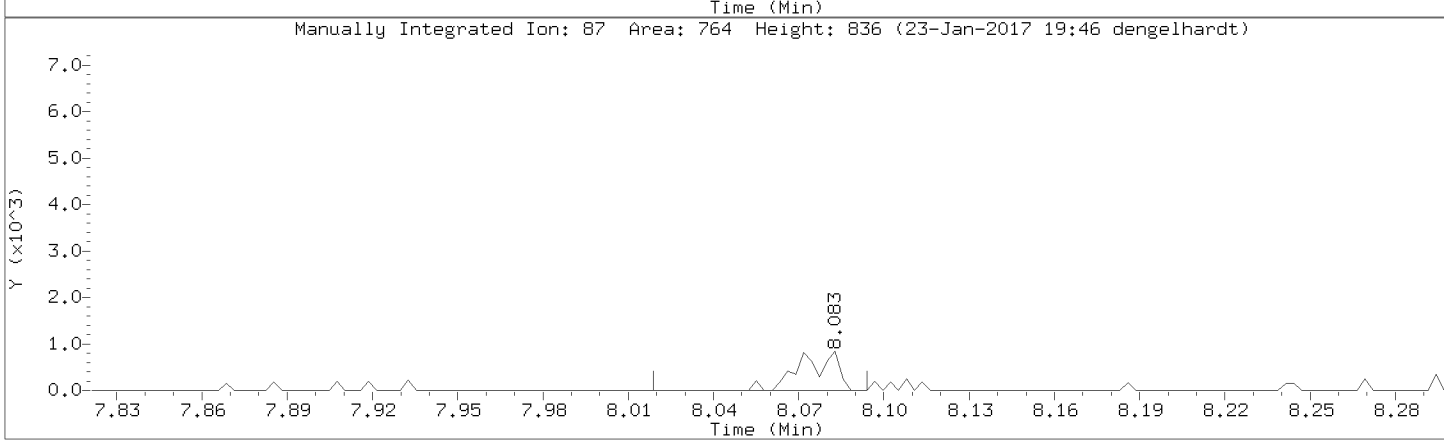
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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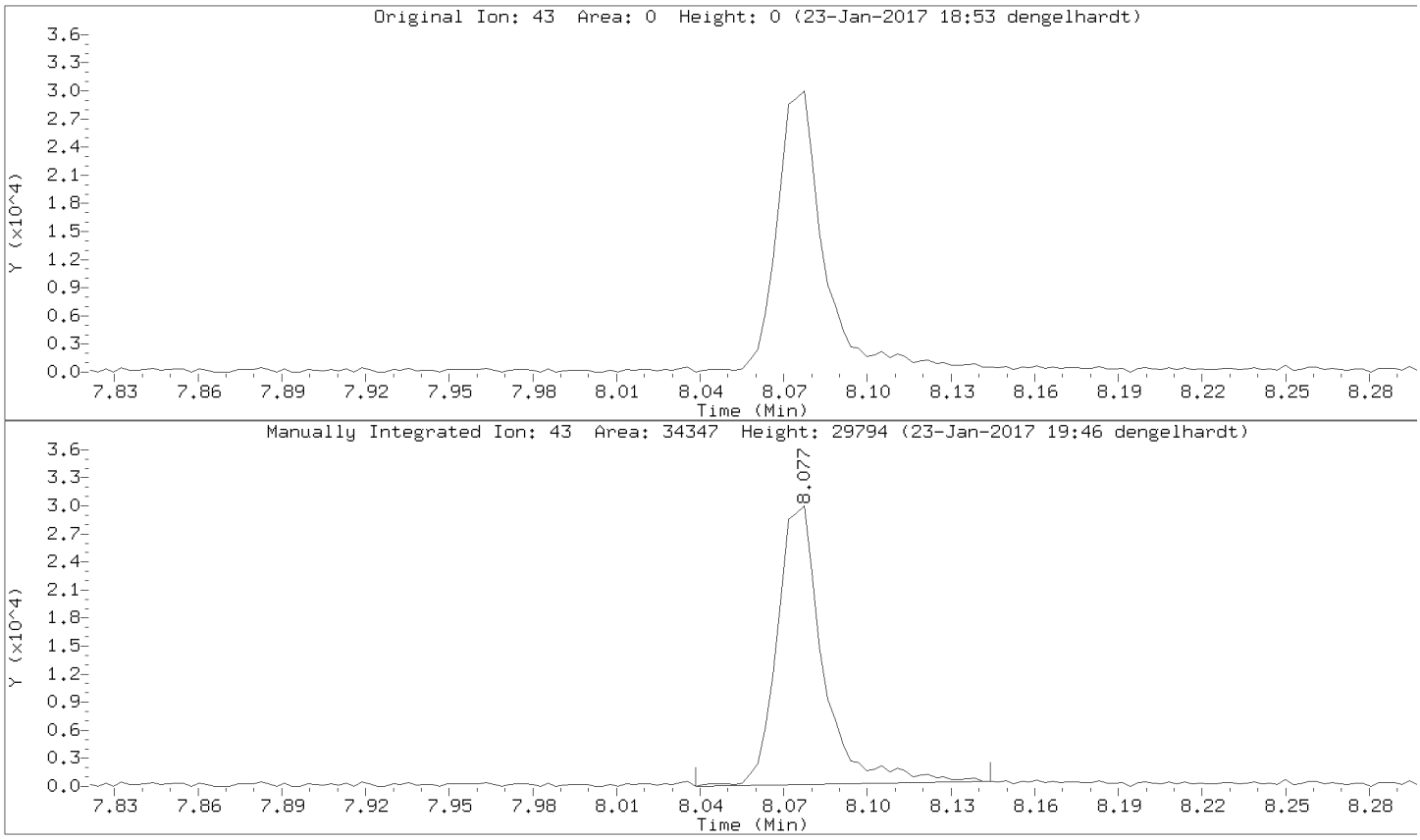
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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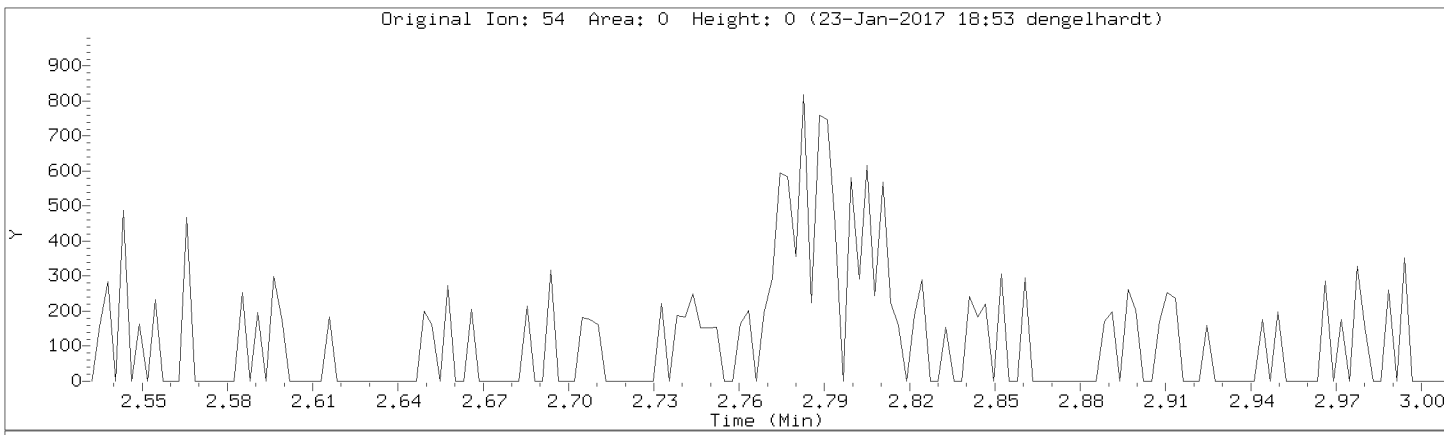
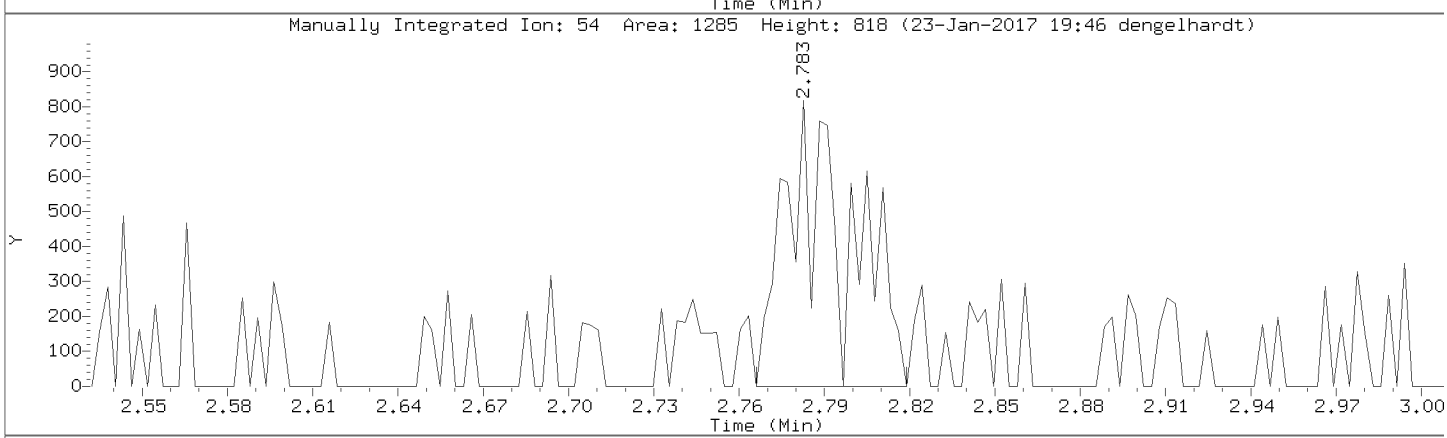
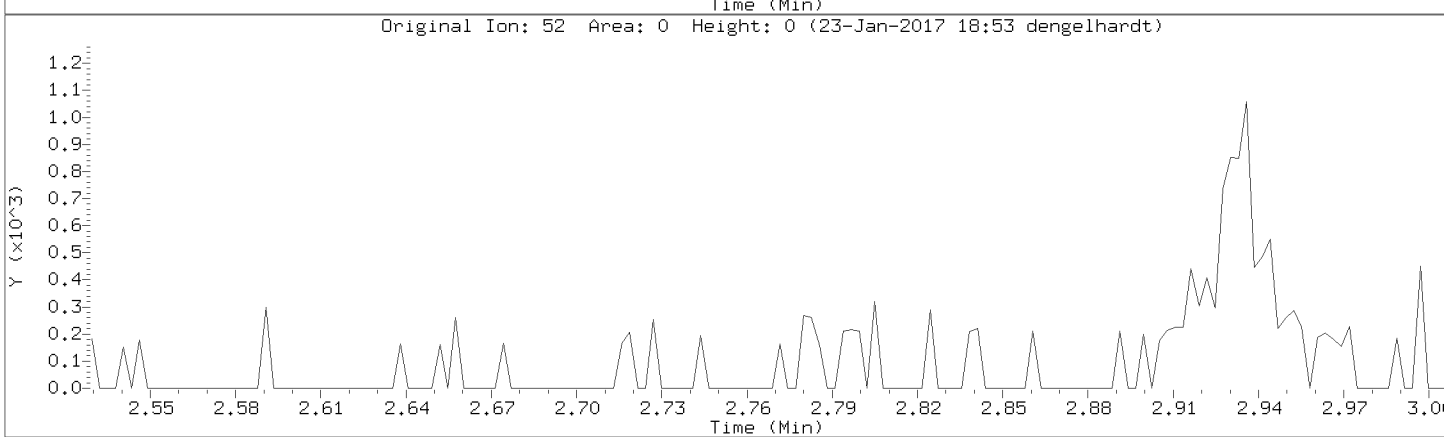
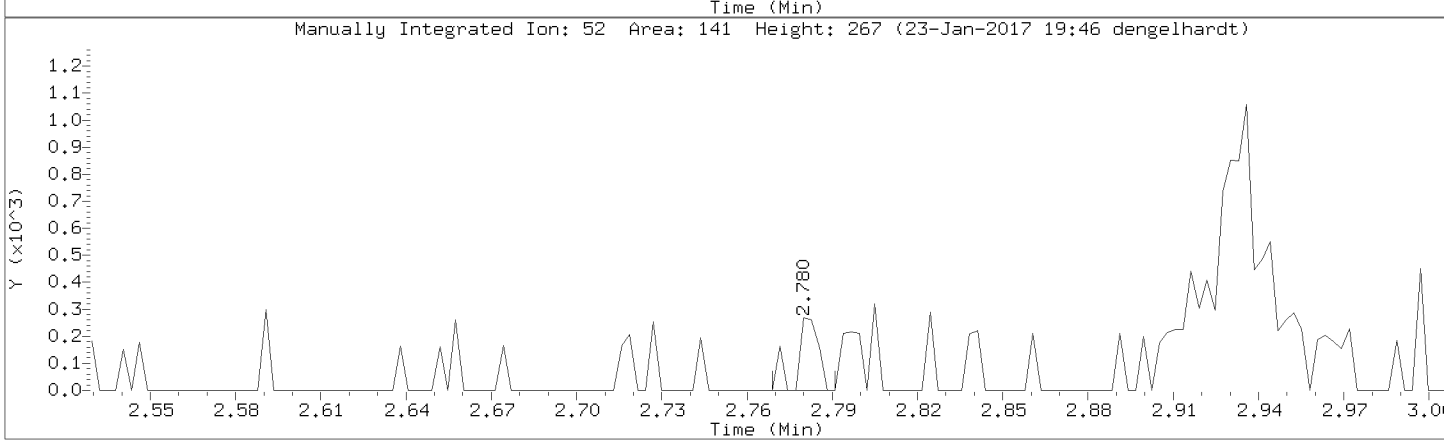
Injection Date: 22-JAN-2017 23:00
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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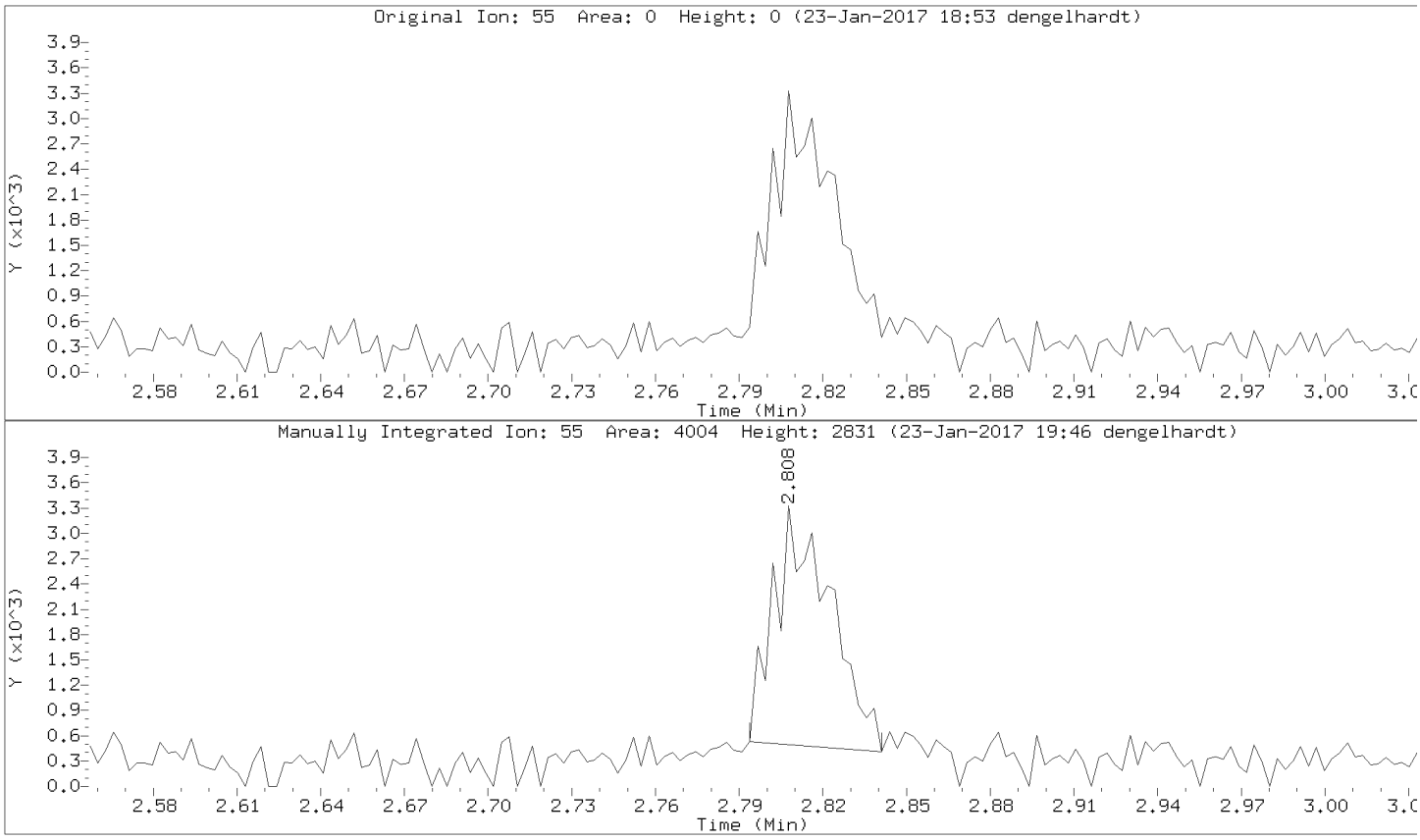
Lab Sample ID: 8260-CAL3



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a04cal4.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 22-JAN-2017 23:33
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal4,140429:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	11840	5.00000	5.36(M)	NI
2 Chloromethane	50	0.954	0.952	(0.235)	12669	5.00000	4.72(M)	GT
3 Vinyl Chloride	62	0.999	0.999	(0.246)	16139	5.00000	5.66	
4 Bromomethane	94	1.141	1.138	(0.281)	9639	5.00000	3.38	
5 Chloroethane	64	1.185	1.182	(0.292)	11145	5.00000	5.51	
6 Trichlorofluoromethane	101	1.296	1.294	(0.319)	20552	5.00000	5.91	
7 Diethyl ether	74	1.419	1.416	(0.349)	8582	5.00000	4.24	
8 1,2-dichlorotrifluoroethane	67	1.436	1.433	(0.353)	17799	5.00000	3.92	
9 Acrolein	56	1.488	1.489	(0.366)	43331	100.000	109	
10 1,1,2trichlorotrifluoroethane	101	1.541	1.539	(0.379)	13602	5.00000	4.36	
11 1,1-Dichloroethene	96	1.544	1.541	(0.380)	11894	5.00000	3.52	
12 Acetone	43	1.555	1.555	(0.383)	26399	25.0000	21.8	
13 Iodomethane	142	1.628	1.628	(0.400)	23474	10.0000	10.2	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	34512	5.00000	4.33	
15 Methyl Acetate	43	1.719	1.719	(0.423)	14604	5.00000	3.29	
16 Acetonitrile	39	1.733	1.733	(0.426)	29885	5.00000	4.07	
17 allyl chloride	41	1.733	1.733	(0.426)	40347	10.0000	7.95	
18 Methylene Chloride	84	1.806	1.806	(0.444)	12655	5.00000	3.19	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	4373	10.0000	6.45(Q)	
20 Acrylonitrile	53	1.939	1.942	(0.477)	25900	20.0000	15.6	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	41709	5.00000	4.57	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	12309	5.00000	3.75	
23 n-Hexane	57	2.151	2.148	(0.529)	16429	5.00000	3.67	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.265	2.262	(0.557)	115692	20.0000	22.6(M)	WP
	25 1,1-Dichloroethane	63	2.273	2.270	(0.559)	22525	5.00000	4.58	
	26 Chloroprene	53	2.323	2.323	(0.572)	19913	5.00000	4.45	
	27 Ethyl acetate	88	2.763	2.763	(0.680)	6006	40.0000	33.4	
	28 2-Butanone	72	2.727	2.724	(0.671)	9341	25.0000	21.3	
	29 1,2-Dichloroethene (cis)	96	2.738	2.735	(0.674)	13944	5.00000	3.79(Q)	
	30 2,2-Dichloropropane	77	2.735	2.738	(0.673)	18527	5.00000	3.67	
	31 Propionitrile	54	2.793	2.782	(0.687)	2684	5.00000	4.87(QM)	WP
	32 Methacrylonitrile	41	2.927	2.927	(0.720)	9107	5.00000	3.20	
	33 Bromochloromethane	49	2.963	2.963	(0.729)	10474	5.00000	4.23	
	34 Tetrahydrofuran	42	2.982	2.983	(0.734)	4540	5.00000	2.72	
	35 Chloroform	83	3.072	3.069	(0.756)	21682	5.00000	4.63	
$	36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	100823	50.0000	50.4	
	37 1,1,1-Trichloroethane	97	3.238	3.236	(0.797)	21156	5.00000	4.39	
	38 cyclohexane	56	3.308	3.314	(0.814)	20945	5.00000	3.47	
	150 n-butyl chloride	56	3.383	3.378	(0.832)	27275	5.00000	3.91	
	39 Carbon Tetrachloride	117	3.414	3.411	(0.840)	17861	5.00000	4.29	
	40 1,1-Dichloropropene	75	3.422	3.419	(0.842)	18189	5.00000	4.65	
	41 Benzene	78	3.656	3.659	(0.899)	48366	5.00000	4.11	
	42 1,2-Dichloroethane	62	3.750	3.748	(0.923)	17411	5.00000	4.37	
	43 2,2,4-Trimethylpentane	57	3.831	3.826	(0.943)	31490	5.00000	3.67	
	44 Isobutyl alcohol	43	3.773	3.770	(0.928)	114445	5.00000	4.58(M)	WP
*	45 Fluorobenzene	96	4.065	4.068	(1.000)	395951	50.0000		
	46 isopropyl acetate	61	3.775	3.773	(0.929)	24986	20.0000	18.2	
	47 Trichloroethene	95	4.529	4.527	(1.114)	12614	5.00000	3.82	
	48 Methylcyclohexane	55	4.796	4.794	(1.180)	14518	5.00000	3.76	
	49 1,2-Dichloropropane	63	4.847	4.847	(1.192)	12728	5.00000	4.37(M)	NI
	50 1,4-Dioxane	88	4.955	4.947	(1.219)	3620	100.000	125	
	51 Dibromomethane	93	4.941	4.938	(1.216)	7560	5.00000	4.15	
	52 Methyl methacrylate	69	4.966	4.961	(1.222)	10573	5.00000	4.33	
	53 Bromodichloromethane	83	5.172	5.172	(1.272)	15688	5.00000	4.17	
	54 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	18628	10.0000	9.11	
	55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	19714	5.00000	4.38	
	56 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	66946	25.0000	21.8	
$	57 Toluene-d8	98	5.948	5.948	(0.807)	382939	50.0000	50.9	
	58 Toluene	91	6.021	6.024	(0.817)	52521	5.00000	4.02	
	59 trans-1,3-Dichloropropene	75	6.321	6.316	(0.858)	17741	5.00000	4.39	
	60 Ethyl Methacrylate	69	6.407	6.405	(0.870)	18878	5.00000	4.56	
	61 1,1,2-Trichloroethane	83	6.519	6.513	(0.885)	9598	5.00000	4.50	
	62 Tetrachloroethene	166	6.563	6.561	(0.891)	14578	5.00000	3.80	
	63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	19652	5.00000	4.55	
	64 2-Hexanone	43	6.747	6.739	(0.916)	46362	25.0000	24.4	
	65 Dibromochloromethane	129	6.864	6.864	(0.932)	13446	5.00000	4.63	
	66 1,2-Dibromoethane	107	6.958	6.956	(0.944)	12116	5.00000	4.68	
*	67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	291834	50.0000		
	68 Chlorobenzene	112	7.390	7.390	(1.003)	32532	5.00000	4.55	
	69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	12752	5.00000	4.80	
	70 Ethylbenzene	106	7.487	7.484	(1.016)	17164	5.00000	4.40	
	71 m&p-Xylene	106	7.595	7.598	(1.031)	40260	10.0000	8.35	
	72 o-Xylene	106	7.899	7.899	(1.072)	20477	5.00000	4.98	
	73 Styrene	104	7.921	7.918	(1.075)	35094	5.00000	5.01	
	74 Bromoform	173	8.052	8.055	(0.883)	10142	5.00000	4.12	
	75 Isopropylbenzene	105	8.185	8.183	(1.111)	48977	5.00000	4.64	
$	76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	128910	50.0000	49.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	38702	20.0000	20.8	
78 Bromobenzene	77	8.402	8.402	(1.140)	19098	5.00000	4.21	
79 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	14476	5.00000	4.38	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.447	(1.147)	4469	5.00000	4.54	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	5311	5.00000	4.37(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	51444	5.00000	4.64	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	32345	5.00000	4.18	
84 1,3,5-Trimethylbenzene	105	8.622	8.619	(0.945)	38589	5.00000	4.41	
85 4-Chlorotoluene	126	8.636	8.633	(0.947)	12935	5.00000	4.74(Q)	
86 tert-Butylbenzene	119	8.831	8.834	(0.968)	45337	5.00000	4.93	
87 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	38909	5.00000	4.19	
88 sec-Butylbenzene	105	8.987	8.984	(0.985)	46805	5.00000	4.45	
89 1,3-Dichlorobenzene	146	9.064	9.065	(0.994)	26166	5.00000	4.79	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	38277	5.00000	4.45	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	153738	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.134	(1.002)	26292	5.00000	4.09	
93 n-Butylbenzene	91	9.359	9.357	(1.026)	31144	5.00000	4.11	
94 1,2-Dichlorobenzene	146	9.368	9.365	(1.027)	23867	5.00000	4.43	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.871	(1.083)	3216	5.00000	4.85	
96 1,2,4-Trichlorobenzene	180	10.375	10.372	(1.138)	14779	5.00000	4.67	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	6290	5.00000	4.94	
98 Naphthalene	128	10.536	10.534	(1.155)	41381	5.00000	4.29	
99 1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	13655	5.00000	4.50	
100 2,methyl-naphthalene	142	11.235	11.226	(1.232)	22888	5.00000	4.34	
101 1-Methylnaphthalene	142	11.349	11.346	(1.244)	19822	5.00000	4.00	

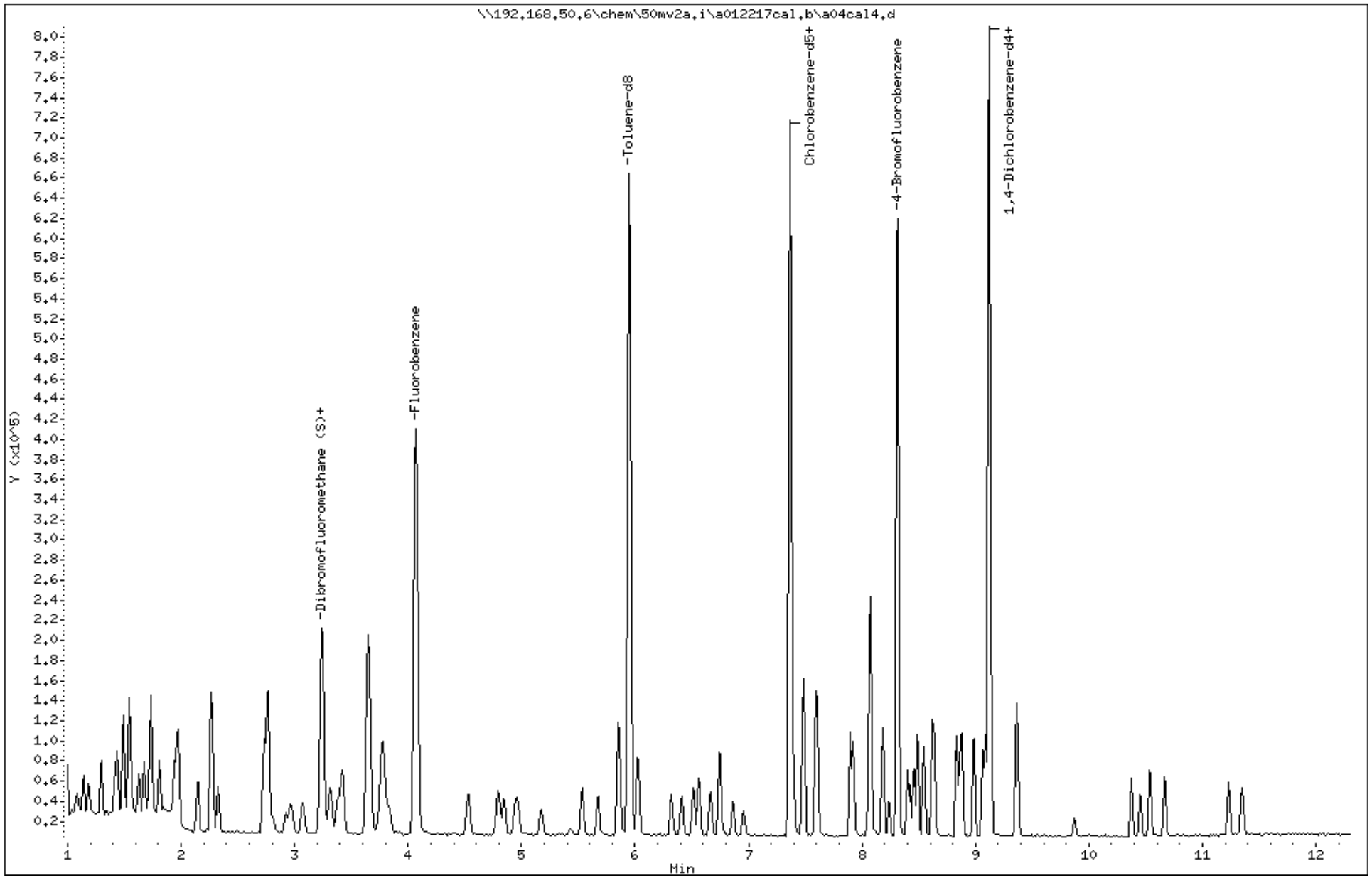
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
:
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a04cal4.d
Date : 22-JAN-2017 23:33
Client ID: 8260-CAL4
Instrument: 50mv2a.i
Sample Info: 8260-CAL4,140429:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



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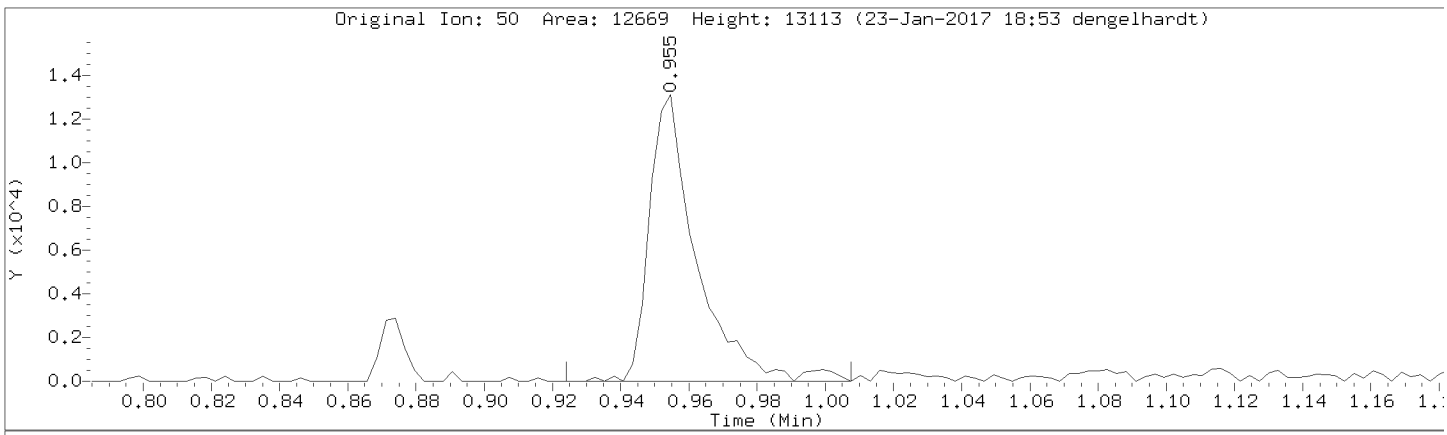
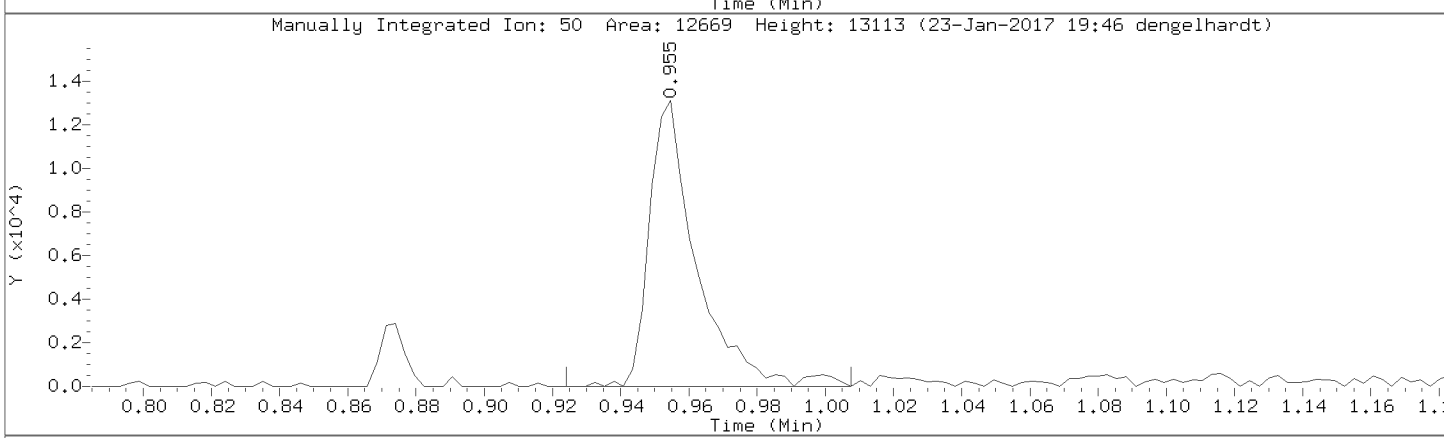
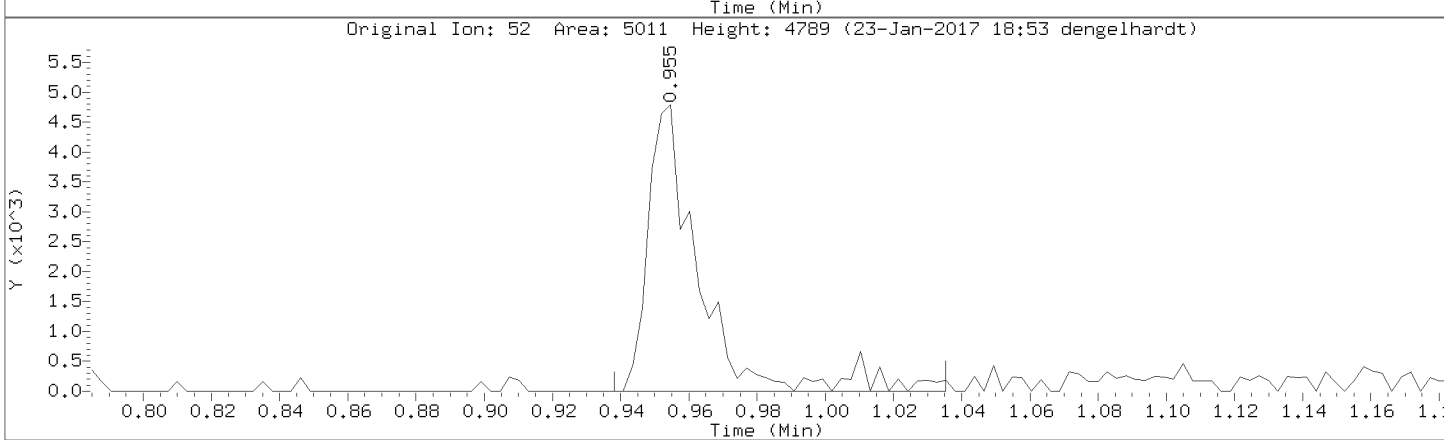
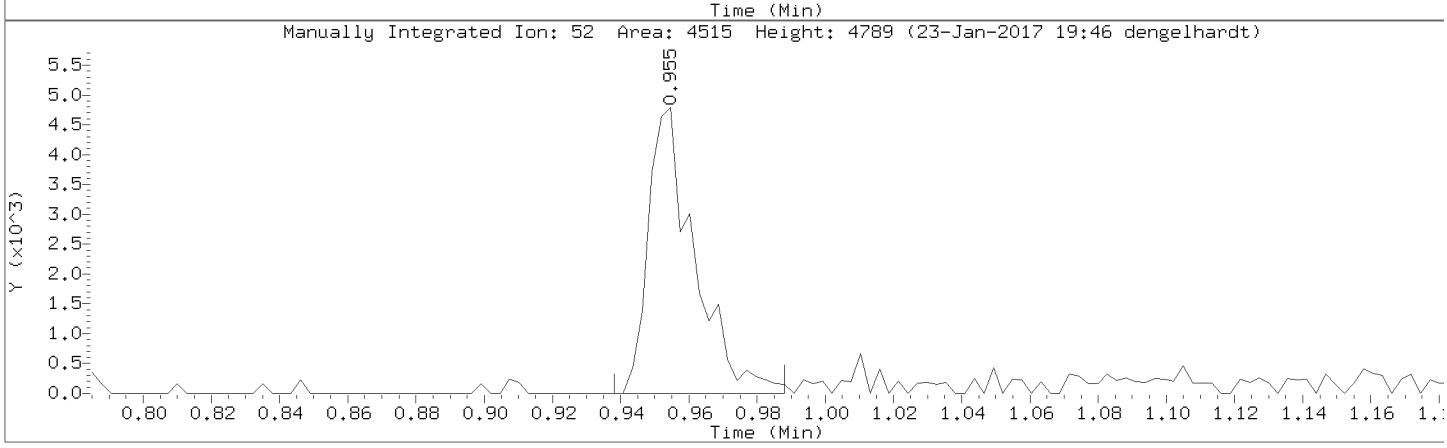
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Chloromethane Review Code: GT
CAS Number: 74-87-3









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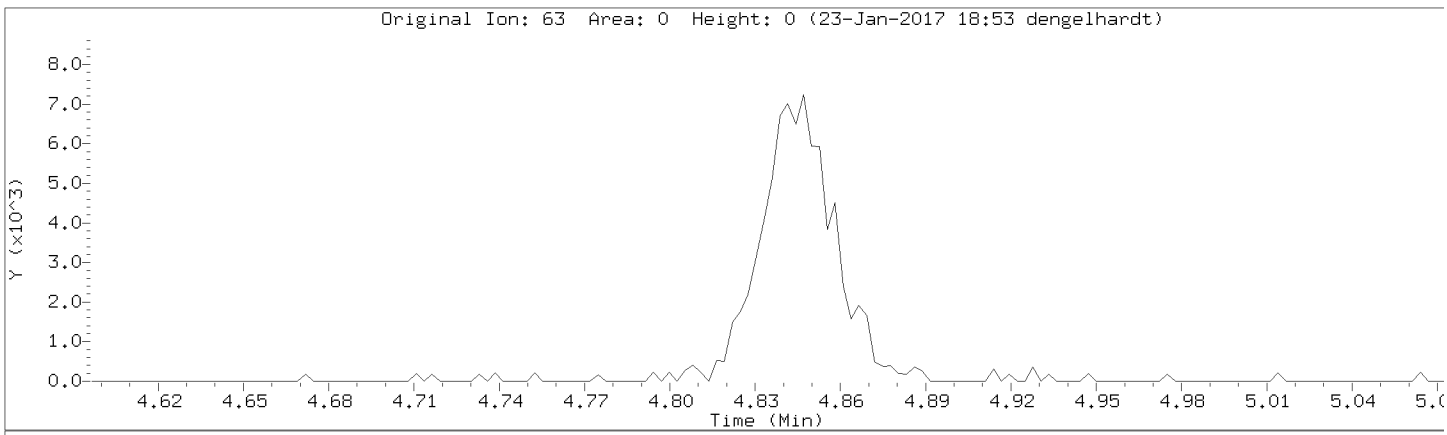
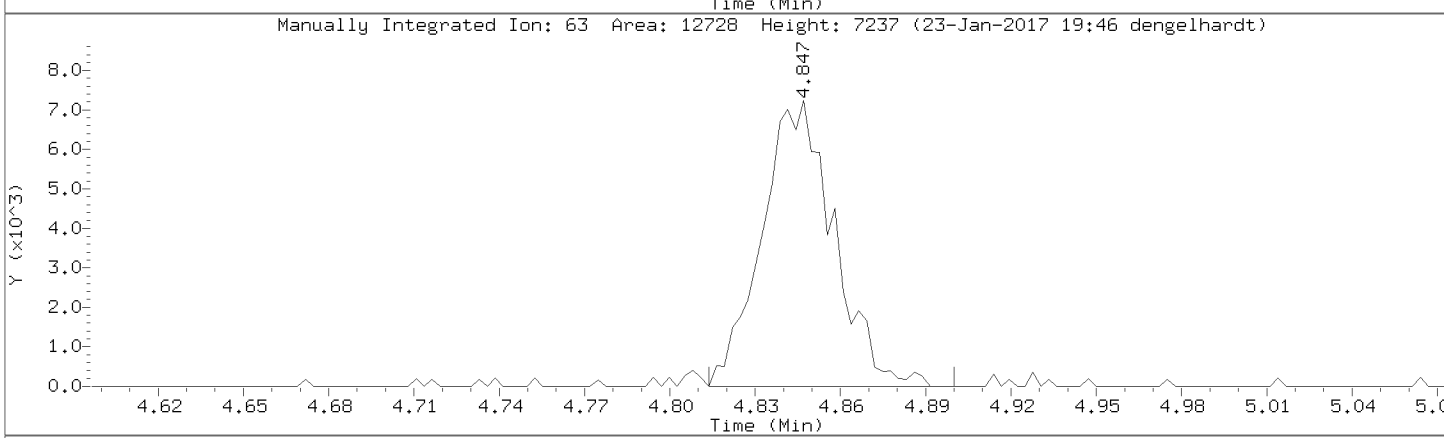
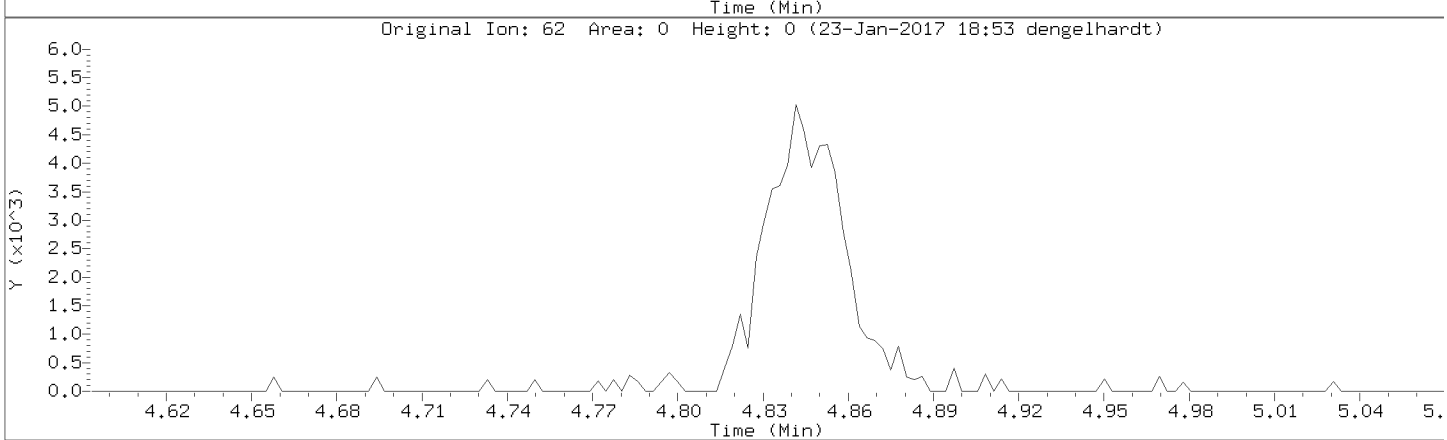
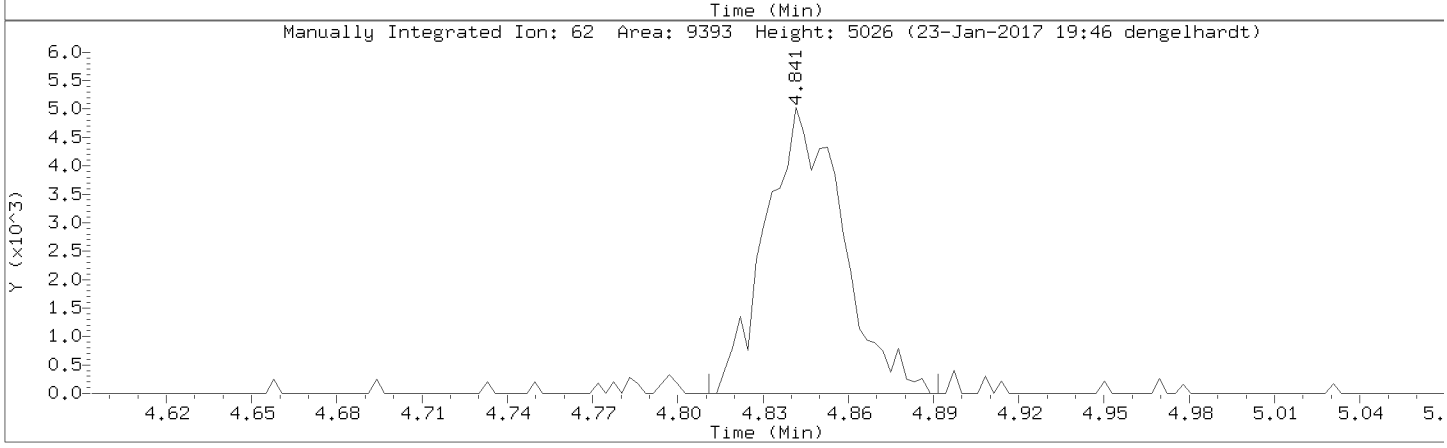
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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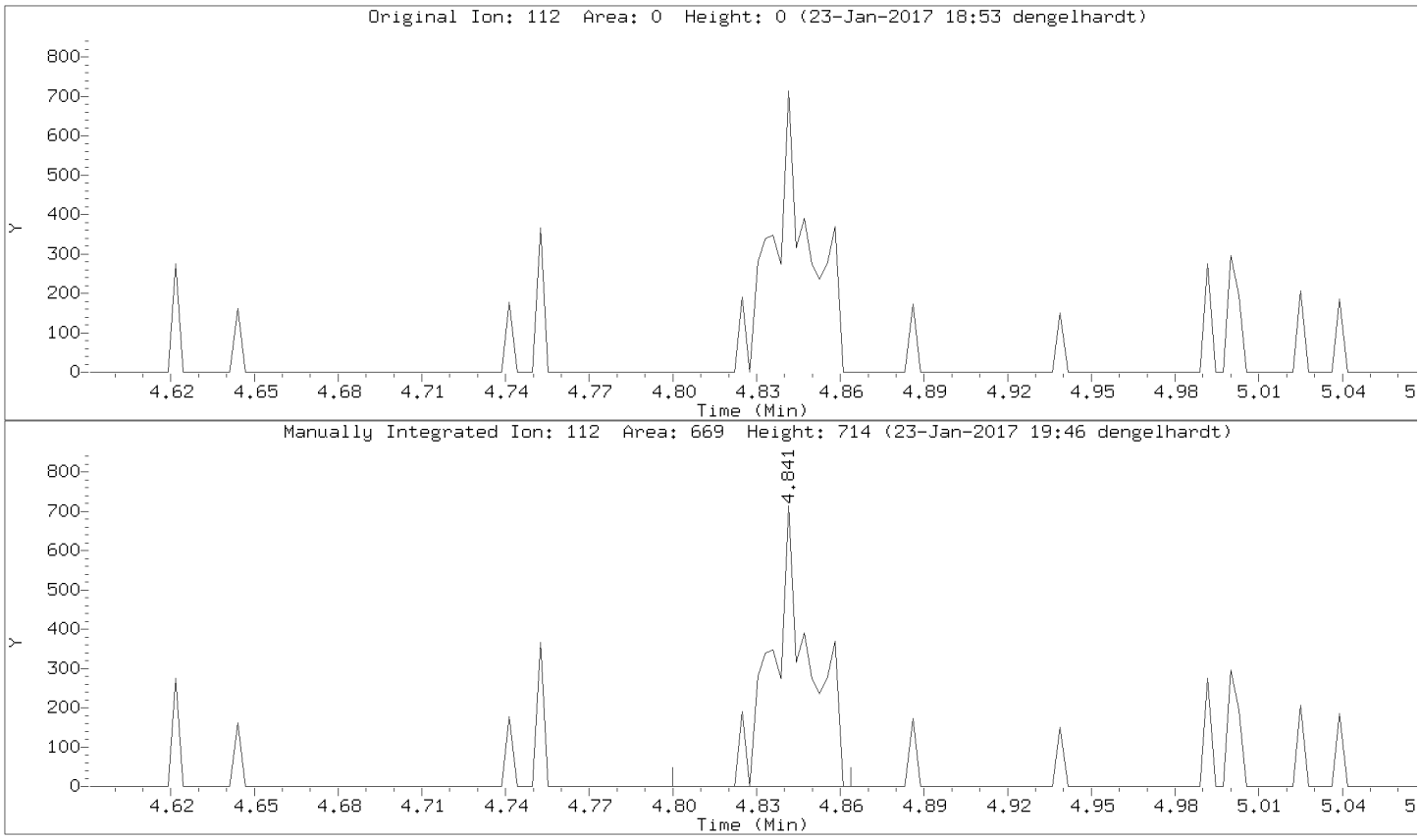
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4



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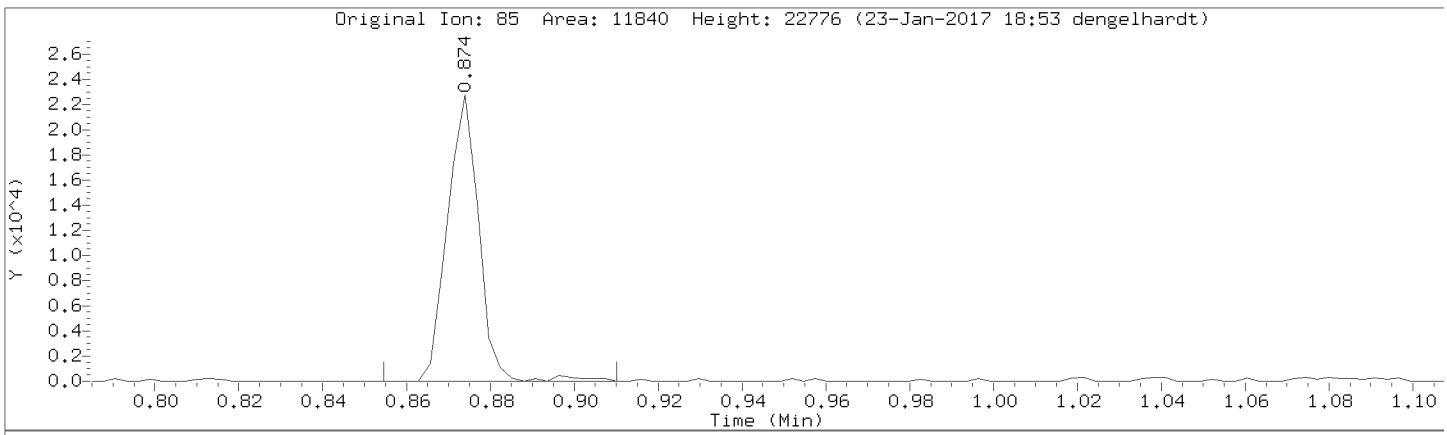
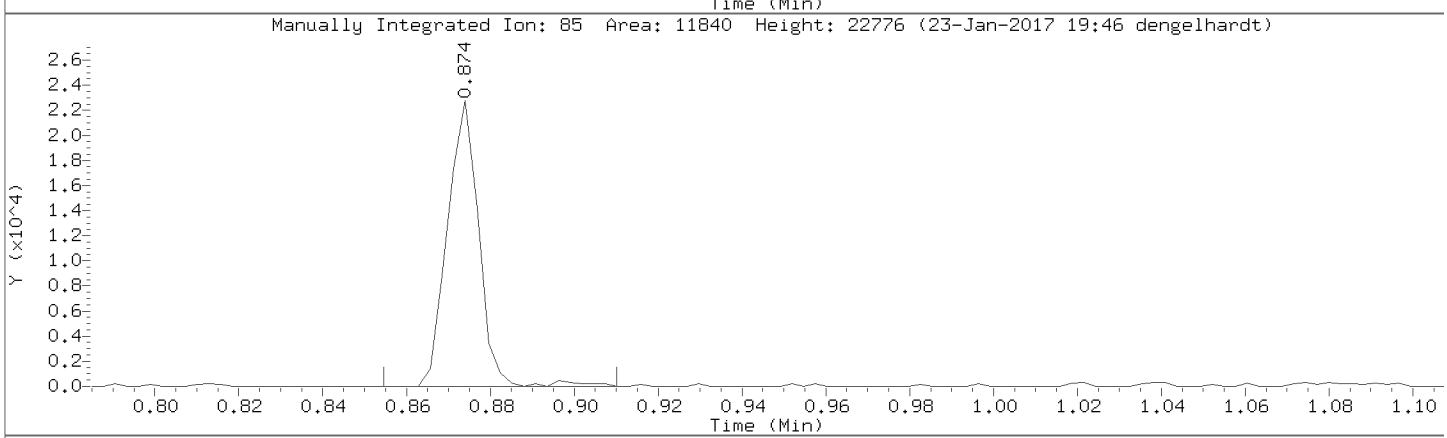
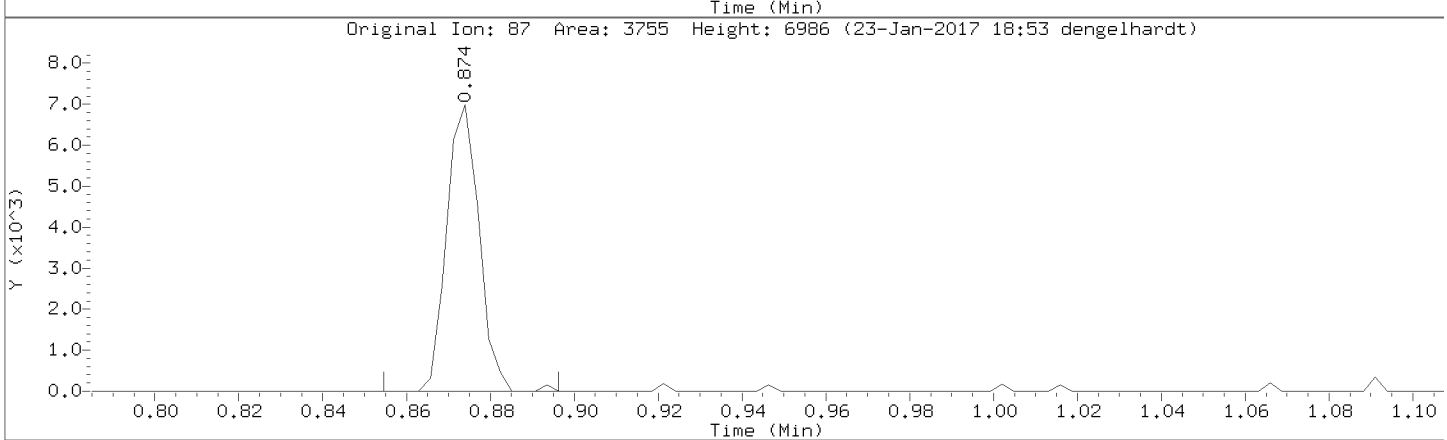
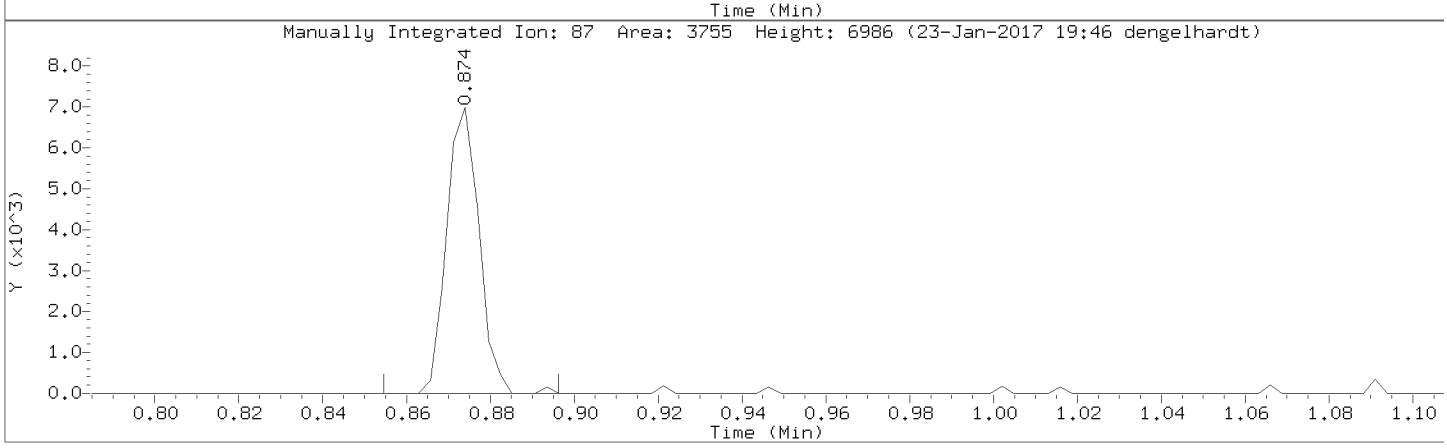
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8









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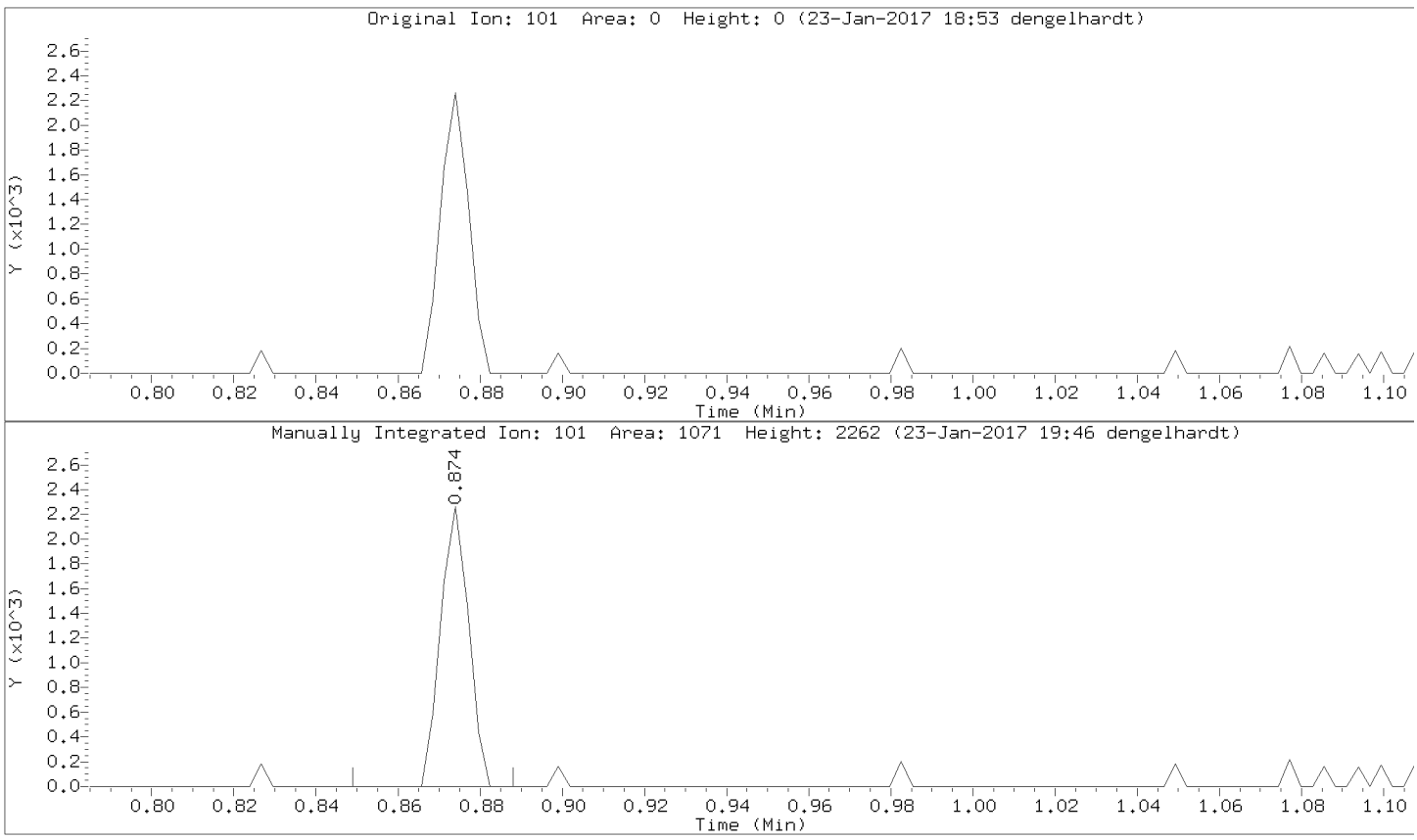
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4



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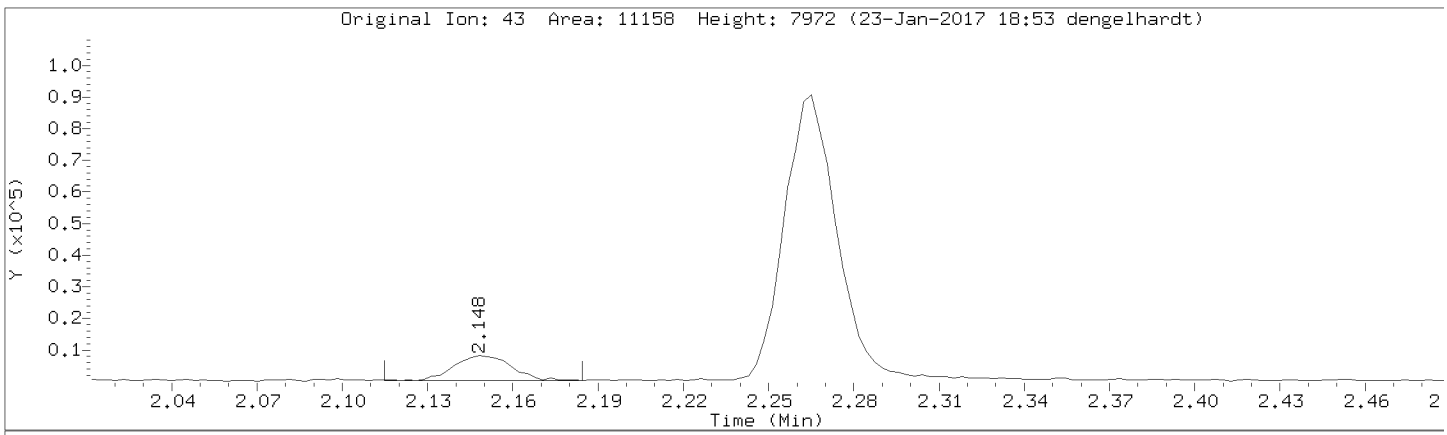
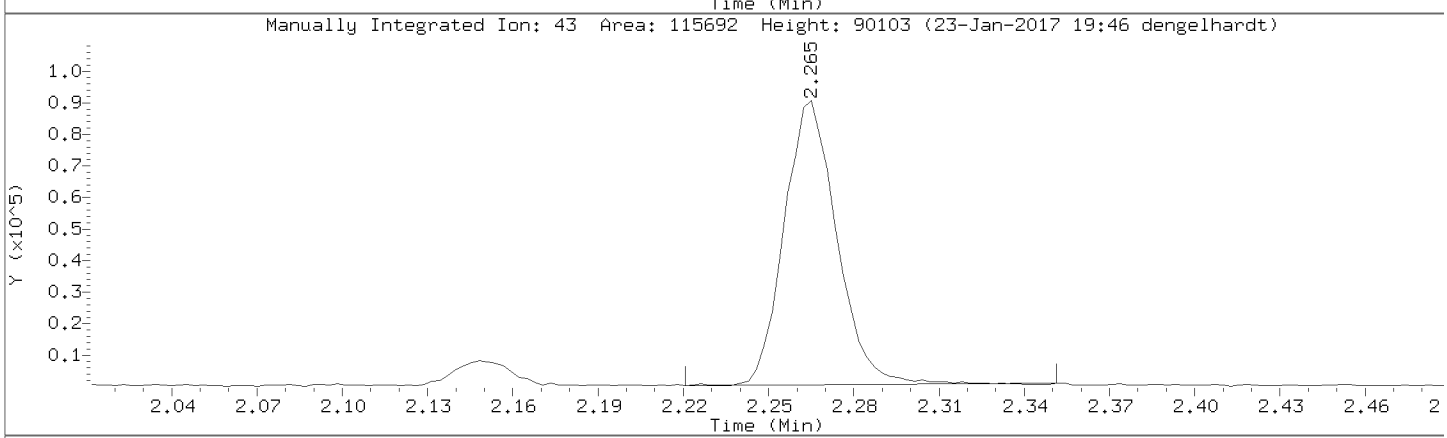
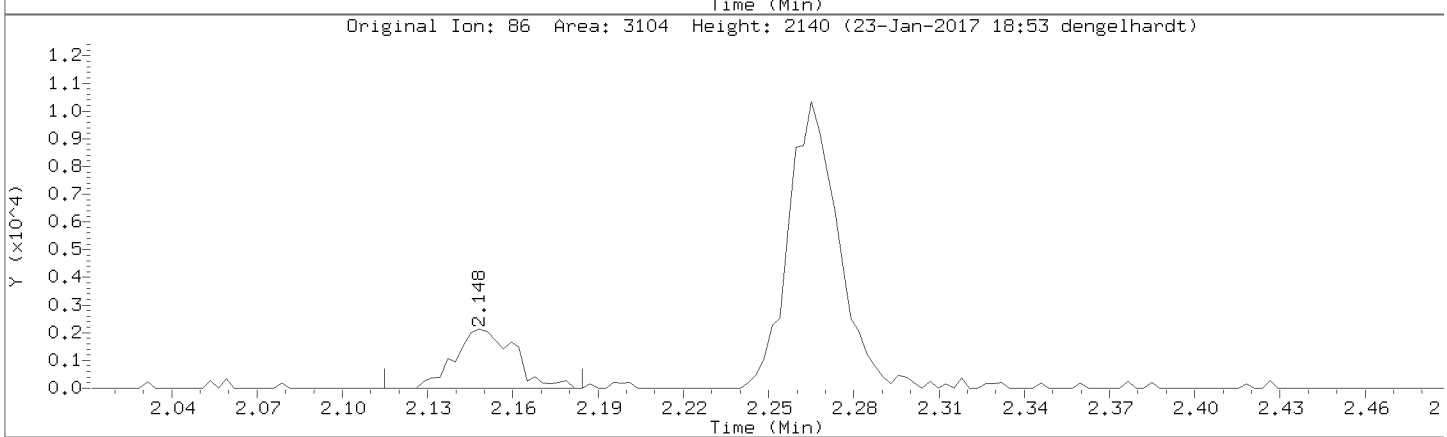
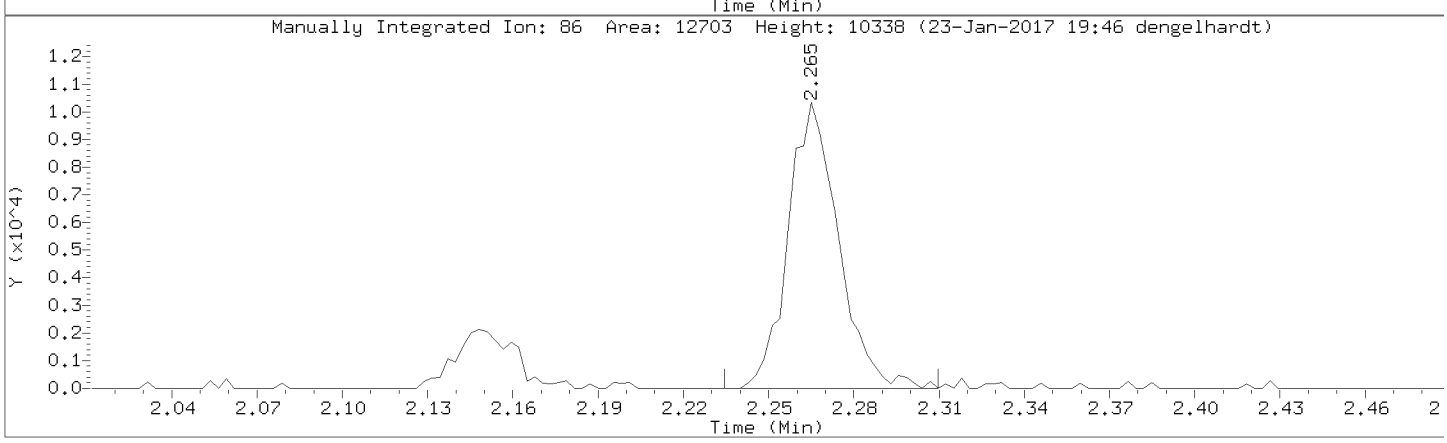
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Vinyl Acetate Review Code: WP
CAS Number: 108-05-4









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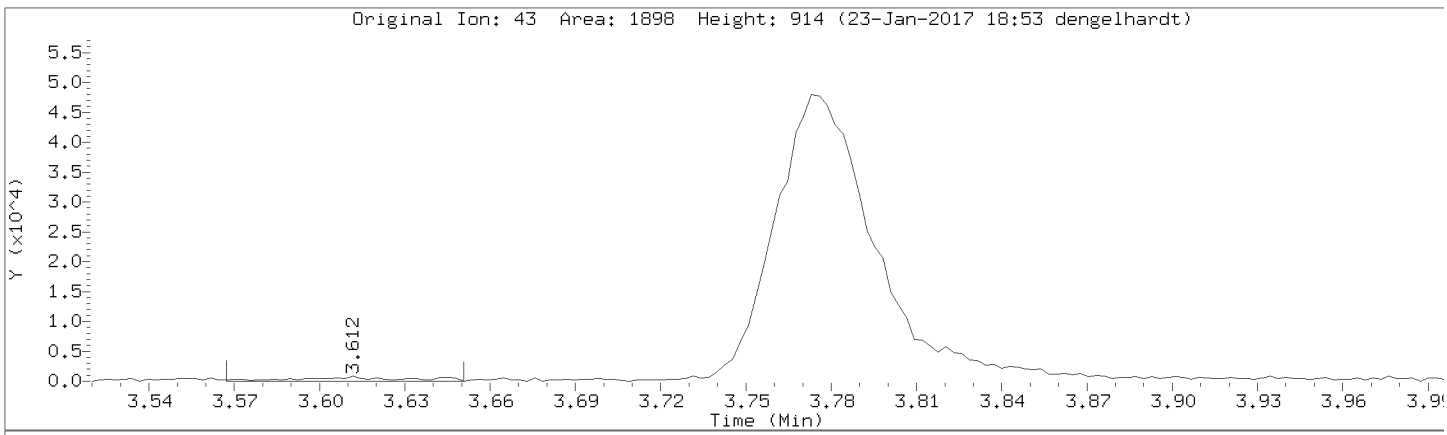
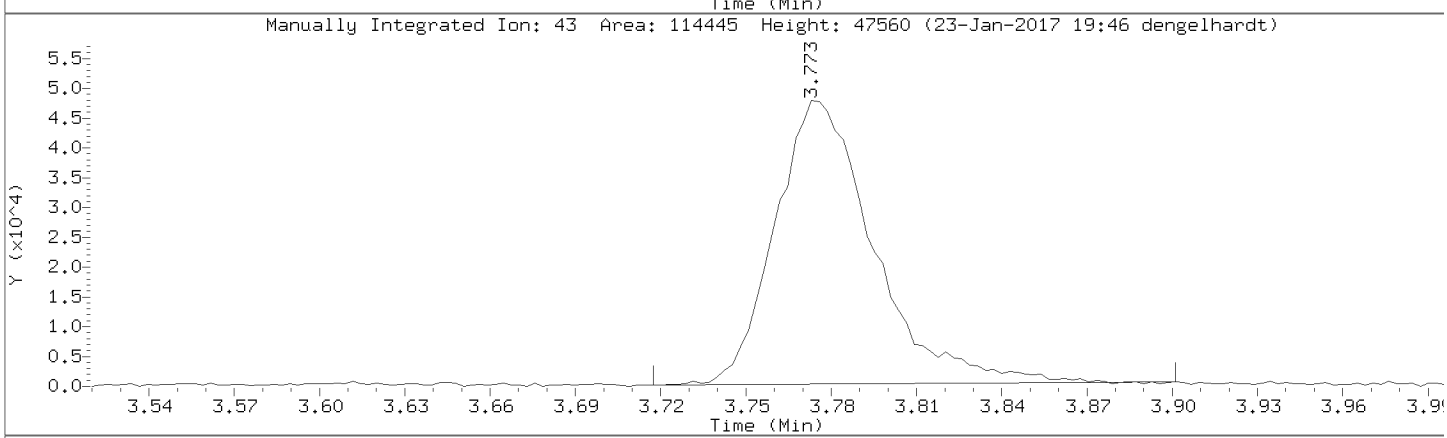
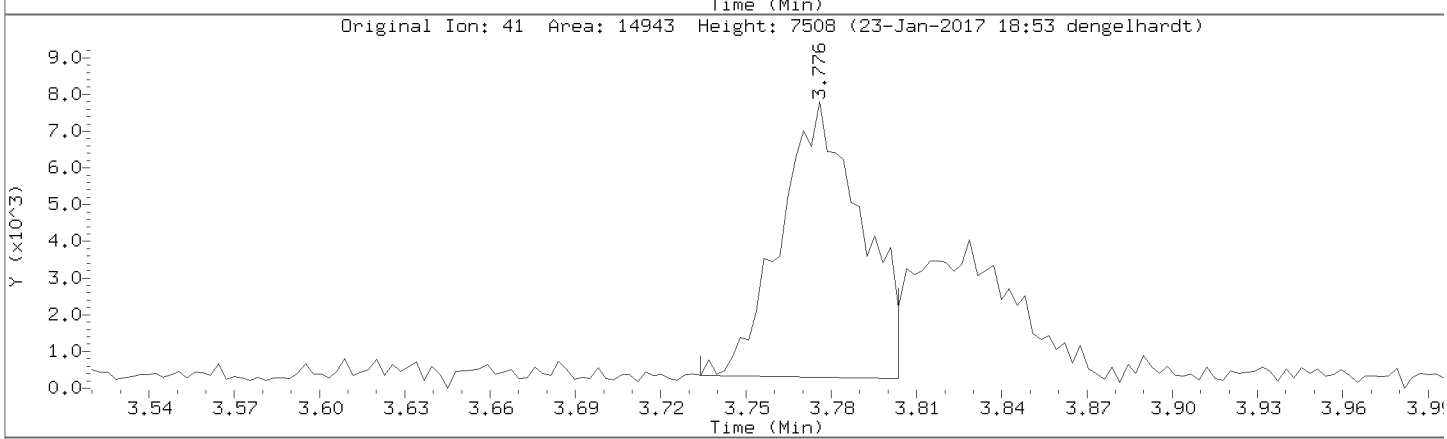
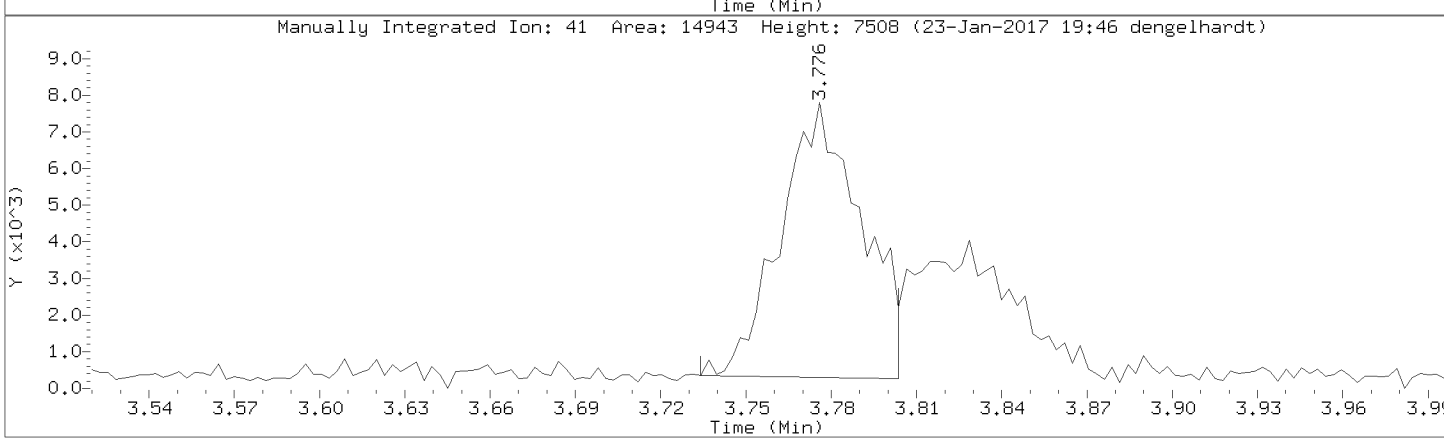
Injection Date: 22-JAN-2017 23:33
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1









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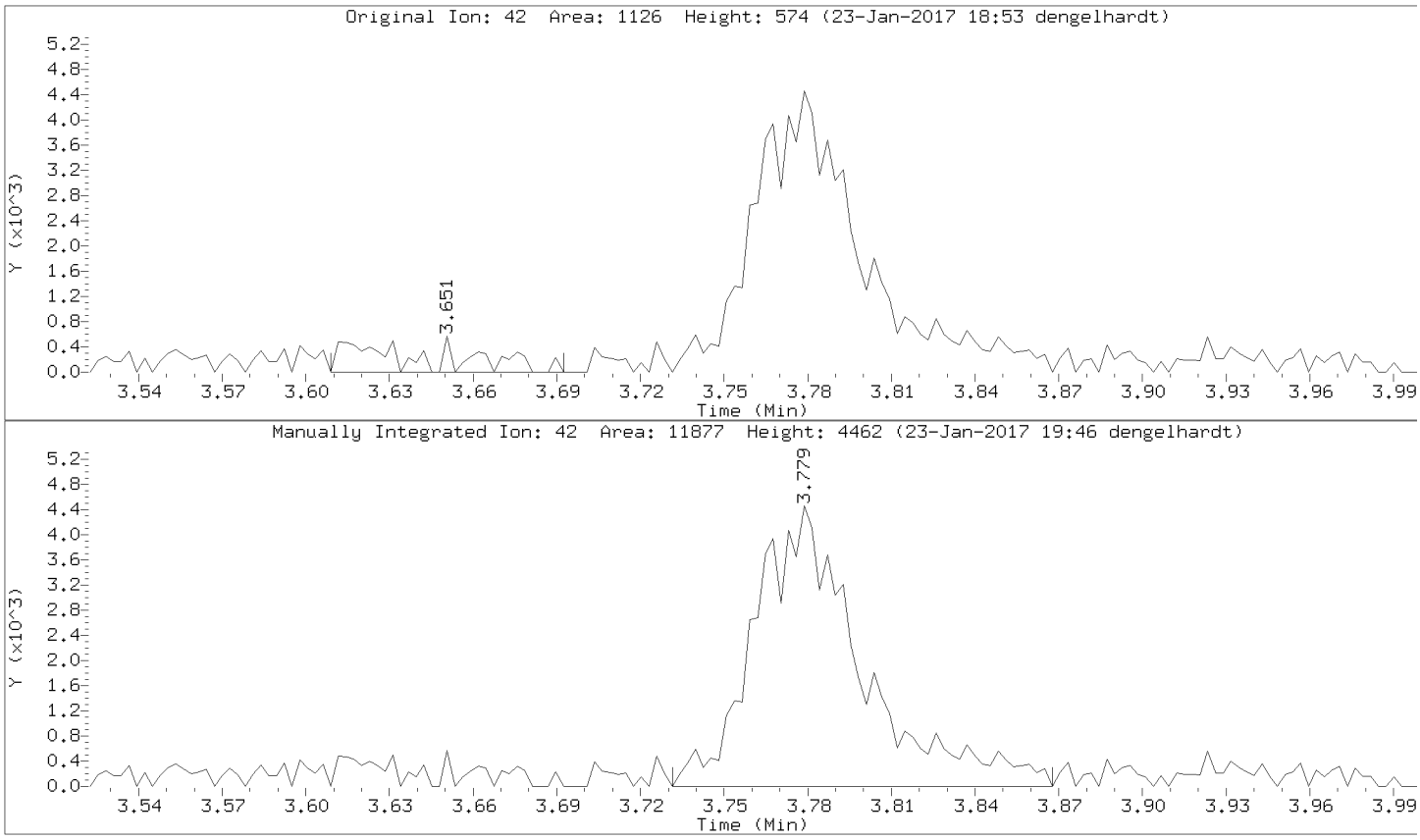

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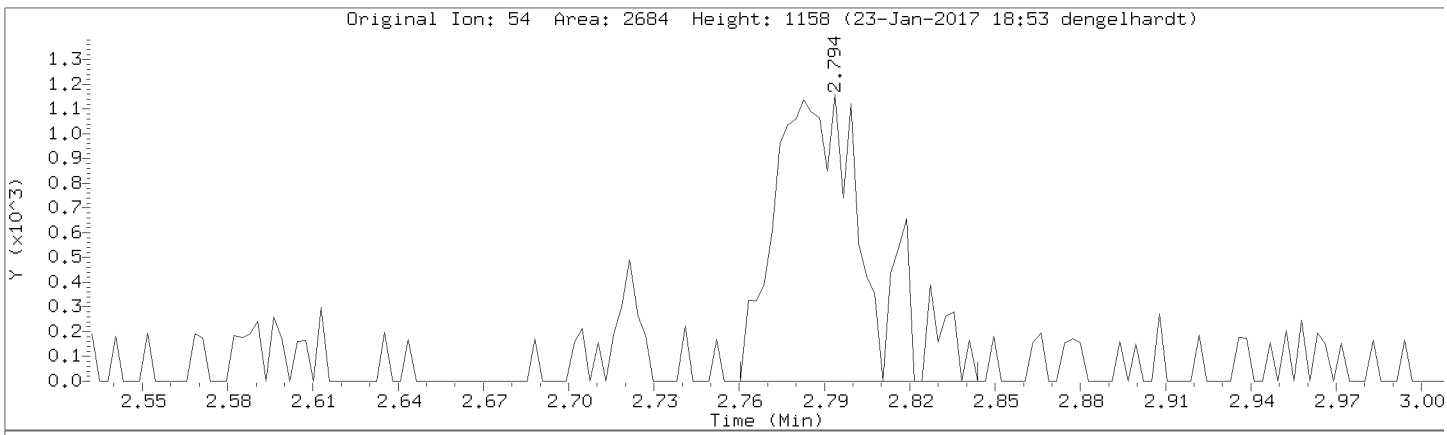
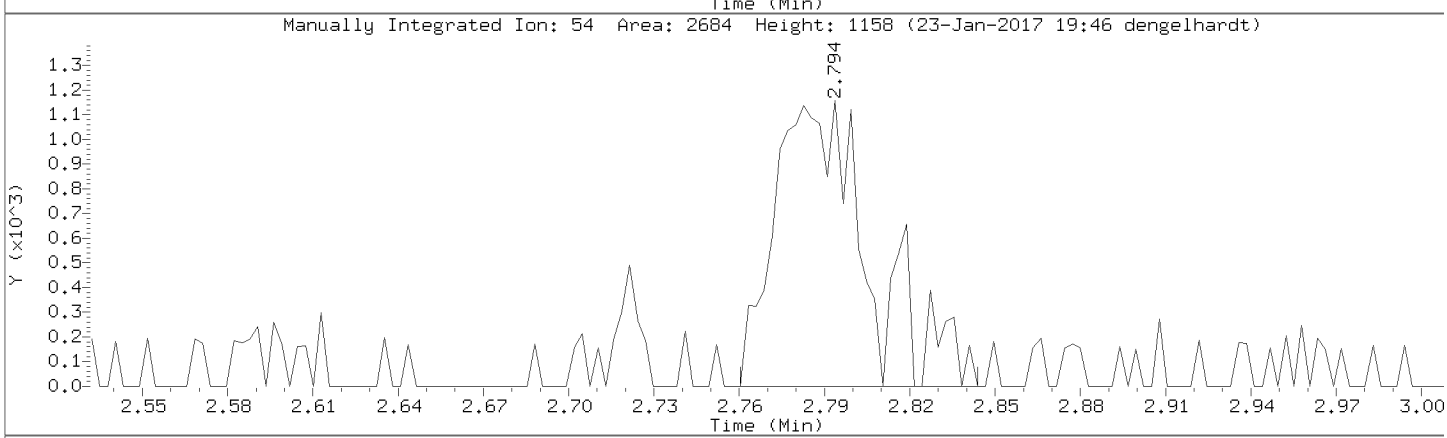
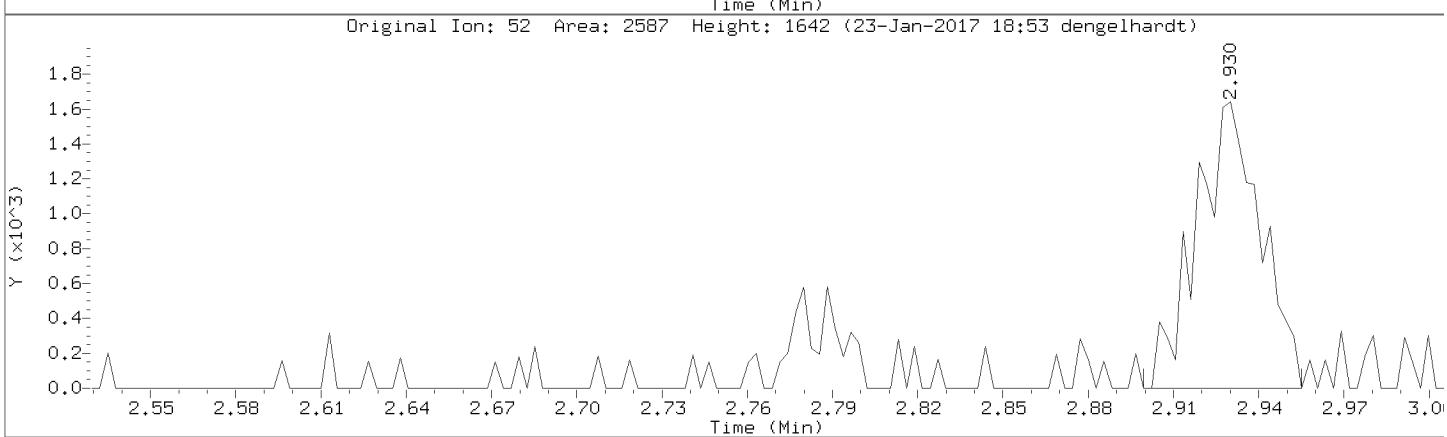
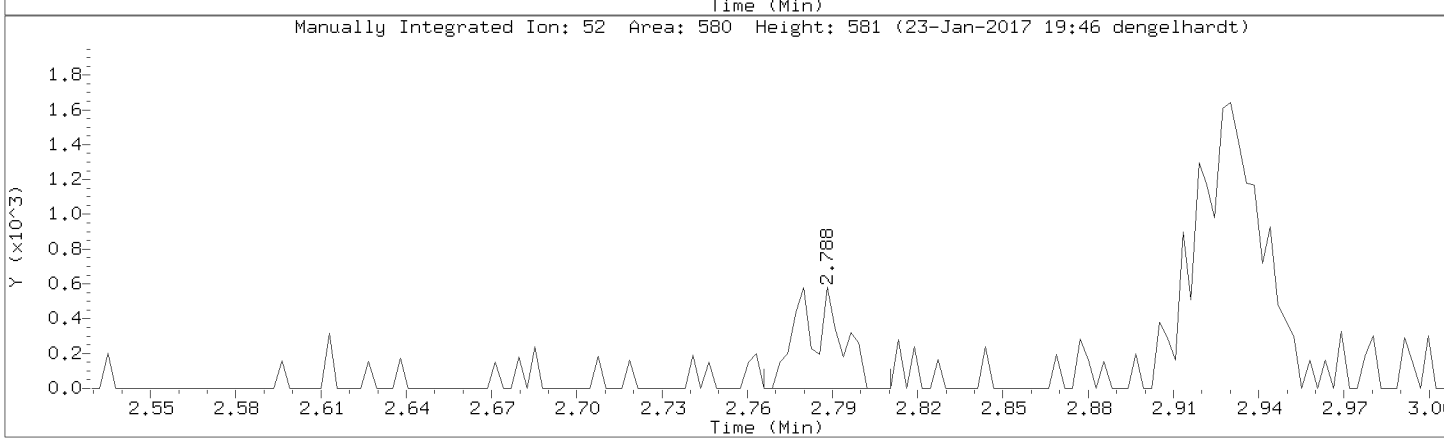
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0









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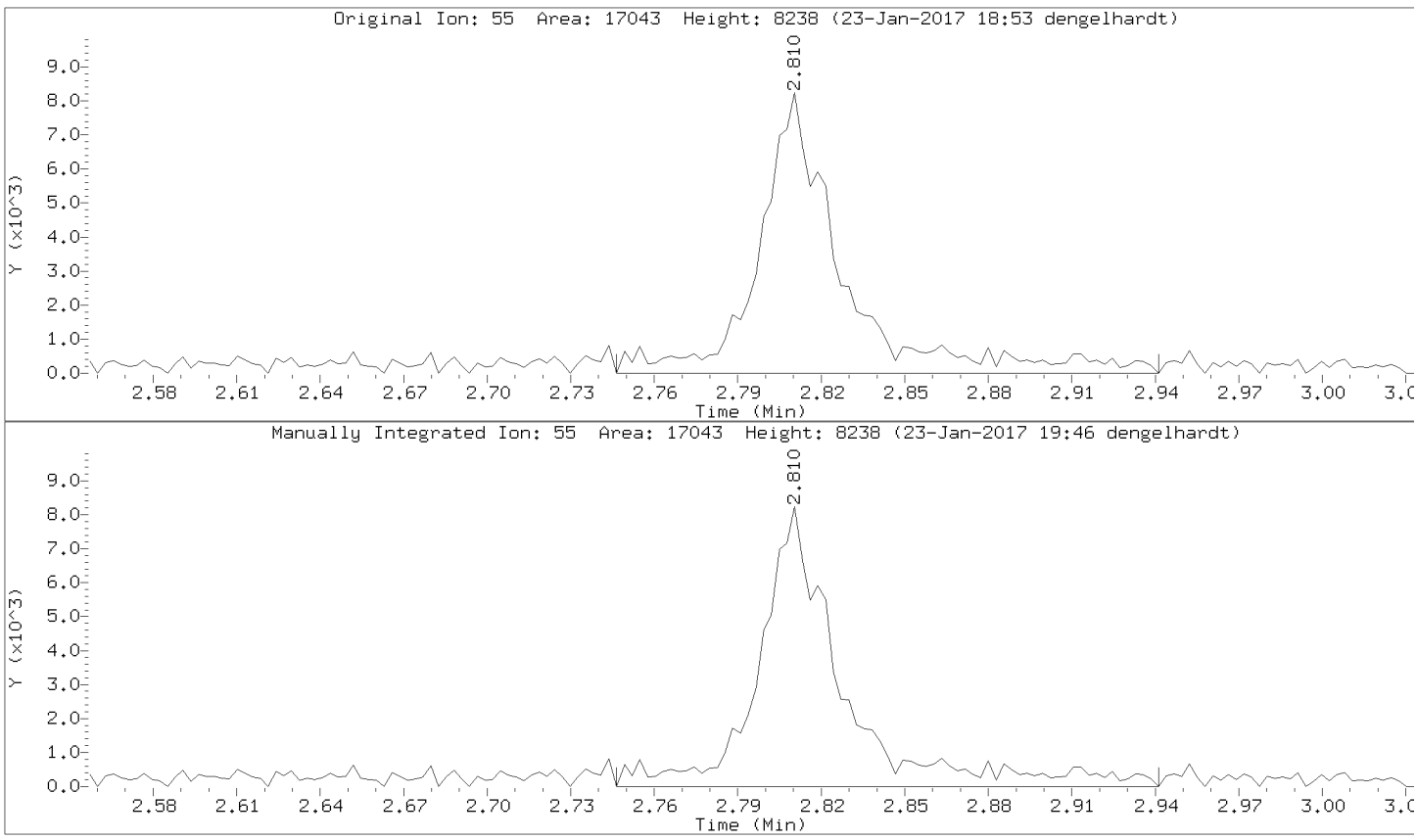

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a05cal5.d
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Inj Date : 23-JAN-2017 00:05
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal5,140430:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	23543	10.0000	10.5	
2 Chloromethane	50	0.951	0.952	(0.234)	24947	10.0000	9.48	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	33154	10.0000	11.3	
4 Bromomethane	94	1.141	1.138	(0.281)	18671	10.0000	7.17	
5 Chloroethane	64	1.185	1.182	(0.291)	18852	10.0000	9.14	
6 Trichlorofluoromethane	101	1.296	1.294	(0.319)	41431	10.0000	11.5	
7 Diethyl ether	74	1.416	1.416	(0.348)	18473	10.0000	9.54	
8 1,2-dichlorotrifluoroethane	67	1.436	1.433	(0.353)	34775	10.0000	8.14	
9 Acrolein	56	1.488	1.489	(0.366)	83982	200.000	208	
10 1,1,2trichlorotrifluoroethane	101	1.539	1.539	(0.378)	29665	10.0000	9.87	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	24792	10.0000	7.96	
12 Acetone	43	1.555	1.555	(0.382)	53120	50.0000	45.6	
13 Iodomethane	142	1.628	1.628	(0.400)	54627	20.0000	23.8	
14 Carbon Disulfide	76	1.675	1.672	(0.412)	71814	10.0000	9.38	
15 Methyl Acetate	43	1.719	1.719	(0.423)	34632	10.0000	8.58	
16 Acetonitrile	39	1.733	1.733	(0.426)	60745	10.0000	8.72	
17 allyl chloride	41	1.733	1.733	(0.426)	87710	20.0000	18.3	
18 Methylene Chloride	84	1.808	1.806	(0.445)	24169	10.0000	6.74	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	7837	20.0000	12.8	
20 Acrylonitrile	53	1.942	1.942	(0.477)	51796	40.0000	33.3	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	85103	10.0000	9.58	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	25335	10.0000	8.27	
23 n-Hexane	57	2.151	2.148	(0.529)	38183	10.0000	9.18	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.265	2.262	(0.557)	229731	40.0000	43.6	
	25 1,1-Dichloroethane	63	2.270	2.270	(0.558)	46195	10.0000	9.64	
	26 Chloroprene	53	2.326	2.323	(0.572)	40742	10.0000	9.41	
	27 Ethyl acetate	88	2.760	2.763	(0.679)	12633	80.0000	73.6(Q)	
	28 2-Butanone	72	2.721	2.724	(0.669)	19463	50.0000	46.4	
	29 1,2-Dichloroethene (cis)	96	2.735	2.735	(0.672)	28004	10.0000	8.15(Q)	
	30 2,2-Dichloropropane	77	2.735	2.738	(0.672)	39773	10.0000	8.49	
	31 Propionitrile	54	2.782	2.782	(0.684)	4644	10.0000	8.53(QM)	NI
	32 Methacrylonitrile	41	2.924	2.927	(0.719)	20040	10.0000	7.77	
	33 Bromochloromethane	49	2.963	2.963	(0.728)	22004	10.0000	9.29	
	34 Tetrahydrofuran	42	2.980	2.983	(0.733)	8822	10.0000	6.00	
	35 Chloroform	83	3.072	3.069	(0.755)	43266	10.0000	9.46	
$	36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	97465	50.0000	48.9	
	37 1,1,1-Trichloroethane	97	3.236	3.236	(0.795)	43200	10.0000	9.29	
	38 cyclohexane	56	3.314	3.314	(0.815)	46684	10.0000	8.41	
	150 n-butyl chloride	56	3.375	3.378	(0.830)	59324	10.0000	9.04	
	39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	37258	10.0000	9.33	
	40 1,1-Dichloropropene	75	3.419	3.419	(0.841)	37440	10.0000	9.79	
	41 Benzene	78	3.656	3.659	(0.899)	103098	10.0000	9.22	
	42 1,2-Dichloroethane	62	3.745	3.748	(0.921)	35778	10.0000	9.32	
	43 2,2,4-Trimethylpentane	57	3.823	3.826	(0.940)	69292	10.0000	8.70	
	44 Isobutyl alcohol	43	3.773	3.770	(0.927)	246034	10.0000	10.1(M)	NI
*	45 Fluorobenzene	96	4.068	4.068	(1.000)	393881	50.0000		
	46 isopropyl acetate	61	3.773	3.773	(0.927)	51834	40.0000	38.8(M)	WP
	47 Trichloroethene	95	4.529	4.527	(1.114)	26114	10.0000	8.45	
	48 Methylcyclohexane	55	4.794	4.794	(1.179)	33503	10.0000	9.31	
	49 1,2-Dichloropropane	63	4.844	4.847	(1.191)	26005	10.0000	9.27	
	50 1,4-Dioxane	88	4.947	4.947	(1.216)	6806	200.000	222	
	51 Dibromomethane	93	4.944	4.938	(1.215)	16492	10.0000	9.50	
	52 Methyl methacrylate	69	4.963	4.961	(1.220)	22625	10.0000	9.64	
	53 Bromodichloromethane	83	5.178	5.172	(1.273)	33661	10.0000	9.39	
	54 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	39281	20.0000	19.8	
	55 cis-1,3-Dichloropropene	75	5.676	5.673	(0.770)	41374	10.0000	9.57	
	56 4-Methyl-2-Pentanone	43	5.851	5.854	(0.794)	143568	50.0000	48.6	
$	57 Toluene-d8	98	5.948	5.948	(0.807)	375062	50.0000	50.0	
	58 Toluene	91	6.024	6.024	(0.818)	110004	10.0000	8.94	
	59 trans-1,3-Dichloropropene	75	6.321	6.316	(0.858)	38264	10.0000	9.85	
	60 Ethyl Methacrylate	69	6.410	6.405	(0.870)	38591	10.0000	9.61	
	61 1,1,2-Trichloroethane	83	6.510	6.513	(0.884)	19348	10.0000	9.39	
	62 Tetrachloroethene	166	6.563	6.561	(0.891)	30604	10.0000	8.56	
	63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	40340	10.0000	9.64	
	64 2-Hexanone	43	6.741	6.739	(0.915)	93630	50.0000	50.0	
	65 Dibromochloromethane	129	6.867	6.864	(0.932)	28171	10.0000	9.97	
	66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	24491	10.0000	9.69	
*	67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	289446	50.0000		
	68 Chlorobenzene	112	7.390	7.390	(1.003)	68084	10.0000	9.82	
	69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	26388	10.0000	10.1	
	70 Ethylbenzene	106	7.484	7.484	(1.016)	36658	10.0000	9.76	
	71 m&p-Xylene	106	7.598	7.598	(1.031)	88926	20.0000	19.4	
	72 o-Xylene	106	7.896	7.899	(1.072)	42688	10.0000	10.5	
	73 Styrene	104	7.921	7.918	(1.075)	72182	10.0000	10.4	
	74 Bromoform	173	8.055	8.055	(0.883)	22405	10.0000	9.68	
	75 Isopropylbenzene	105	8.183	8.183	(1.111)	104858	10.0000	10.2	
$	76 4-Bromofluorobenzene	95	8.311	8.313	(1.128)	128292	50.0000	49.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	83690	40.0000	44.8	
78 Bromobenzene	77	8.402	8.402	(1.140)	37901	10.0000	8.76	
79 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	31417	10.0000	9.98	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.447	(1.147)	8745	10.0000	9.16	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	10716	10.0000	9.26(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	113678	10.0000	10.6	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	66126	10.0000	9.06	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	82238	10.0000	9.85	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	26161	10.0000	9.87	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	85876	10.0000	9.53	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	84114	10.0000	9.60	
88 sec-Butylbenzene	105	8.987	8.984	(0.985)	99209	10.0000	9.85	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	52859	10.0000	9.95	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	82556	10.0000	10.0	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	151251	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.134	(1.002)	55484	10.0000	9.19	
93 n-Butylbenzene	91	9.359	9.357	(1.026)	64215	10.0000	9.02	
94 1,2-Dichlorobenzene	146	9.368	9.365	(1.027)	52176	10.0000	10.1	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.871	(1.083)	6353	10.0000	9.81	
96 1,2,4-Trichlorobenzene	180	10.375	10.372	(1.138)	31361	10.0000	10.2	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	13486	10.0000	10.8	
98 Naphthalene	128	10.536	10.534	(1.155)	89644	10.0000	9.80	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	29046	10.0000	9.98	
100 2,methyl-naphthalene	142	11.229	11.226	(1.231)	48919	10.0000	9.76	
101 1-Methylnaphthalene	142	11.349	11.346	(1.244)	41962	10.0000	9.06	

QC Flag Legend

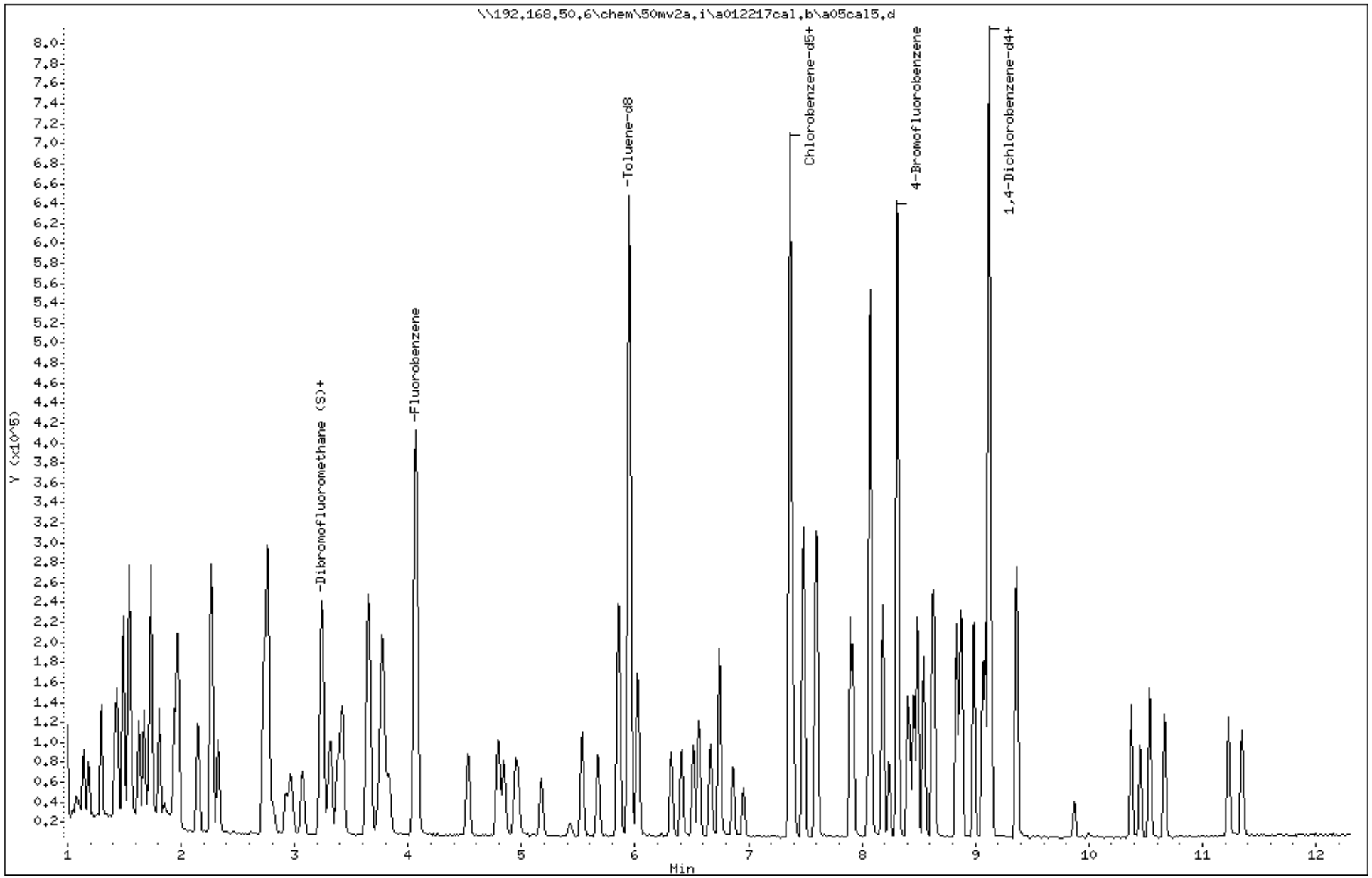
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a05cal5.d
Date : 23-JAN-2017 00:05
Client ID: 8260-CAL5
Sample Info: 8260-CAL5,140430:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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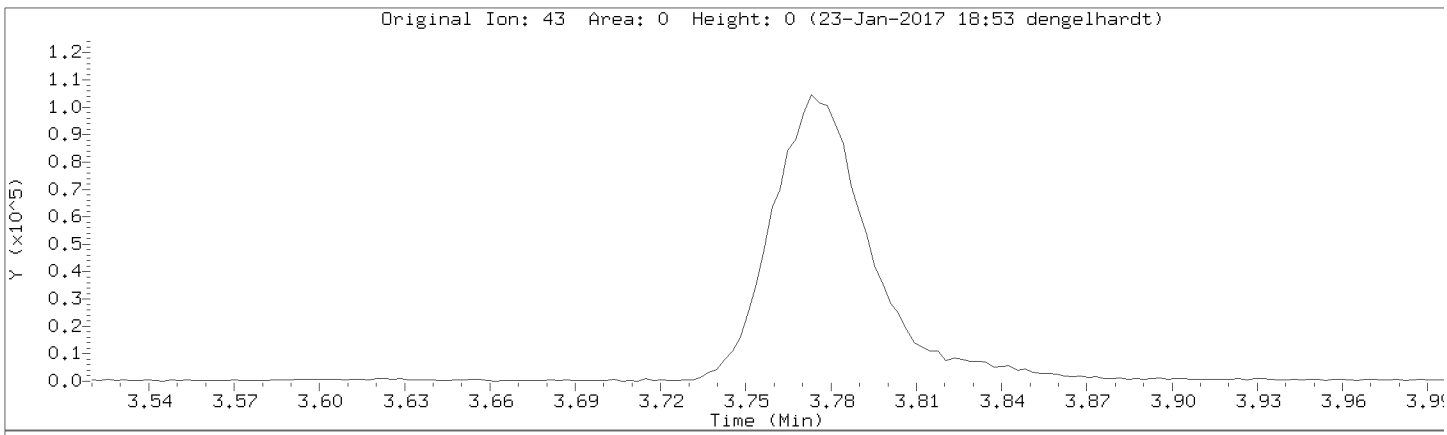
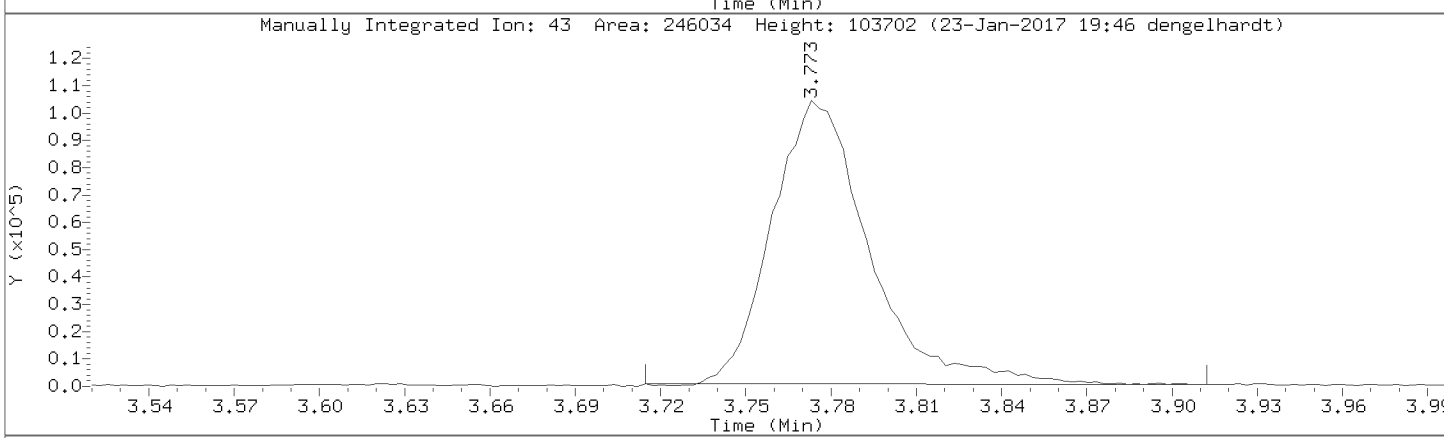
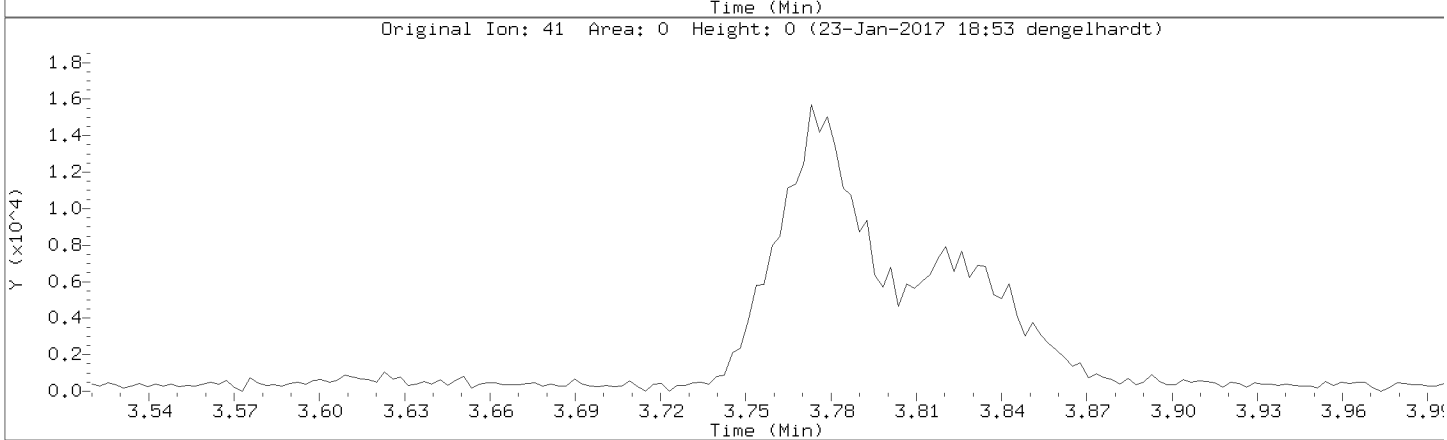
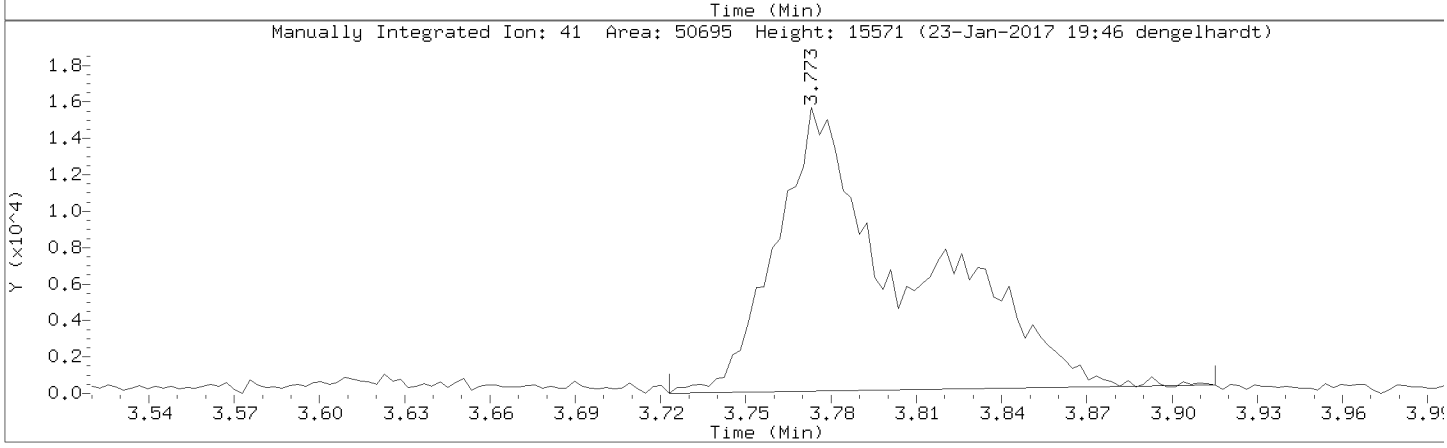
Injection Date: 23-JAN-2017 00:05
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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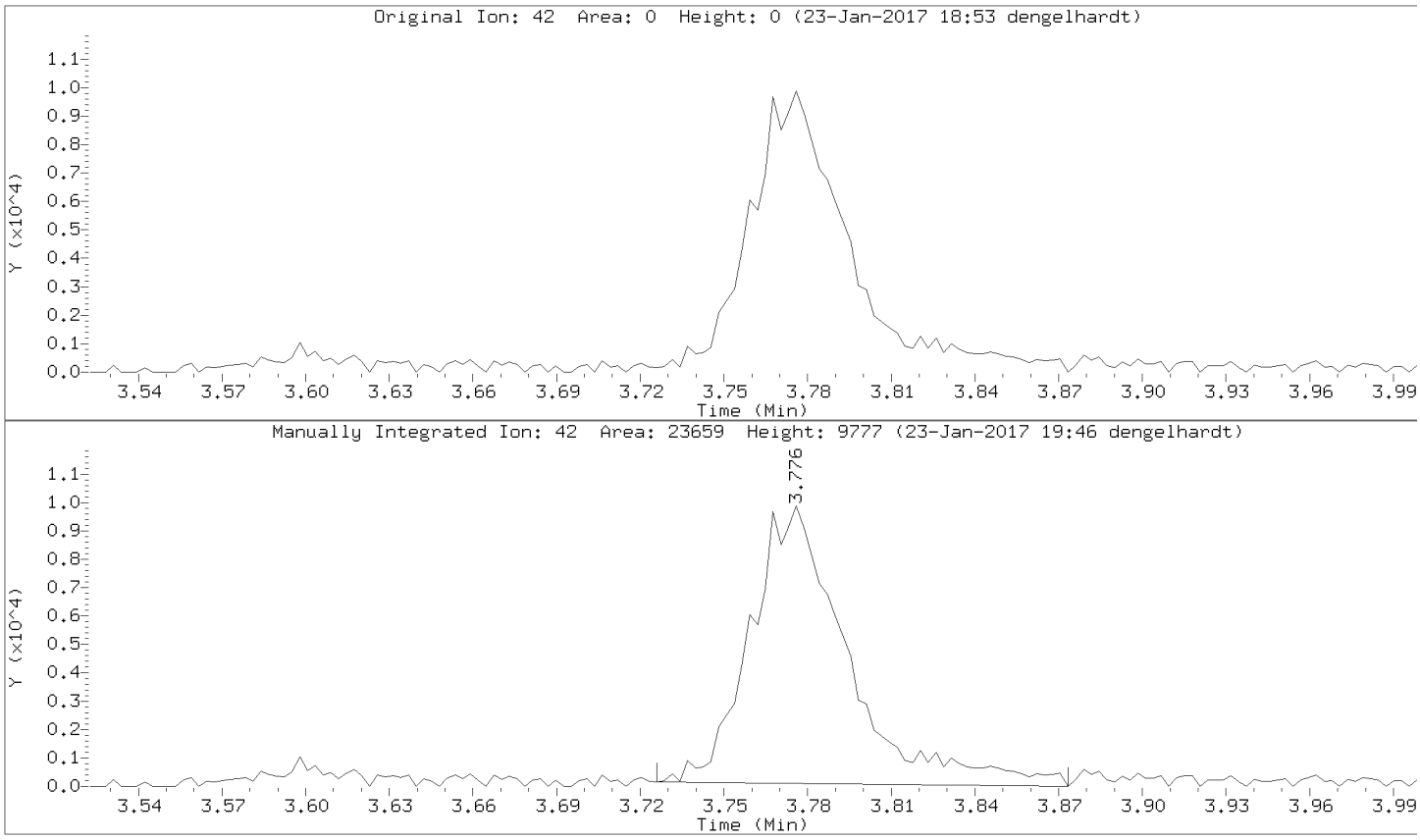
Injection Date: 23-JAN-2017 00:05
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5



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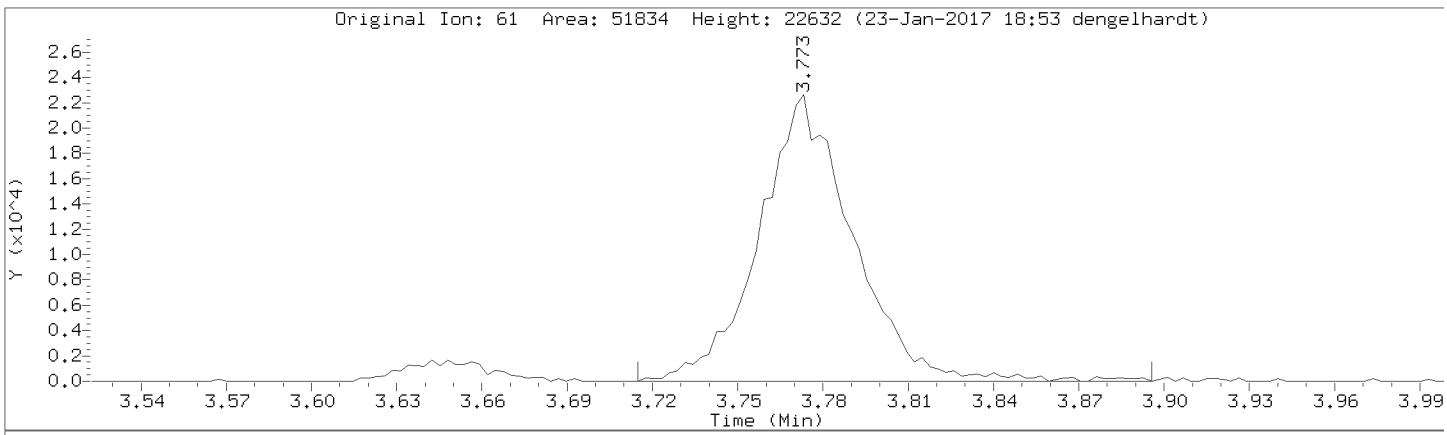
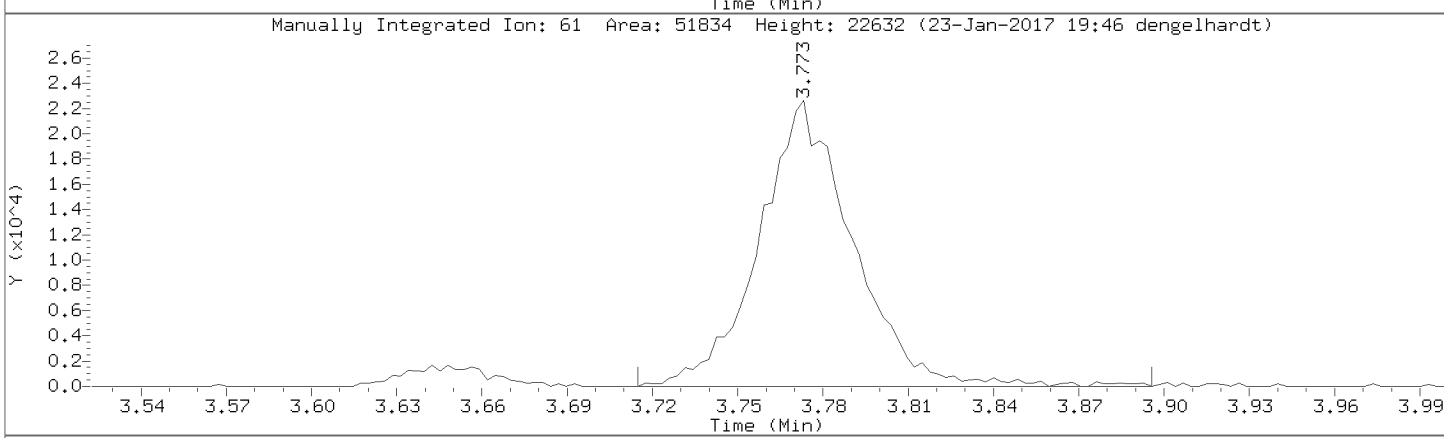
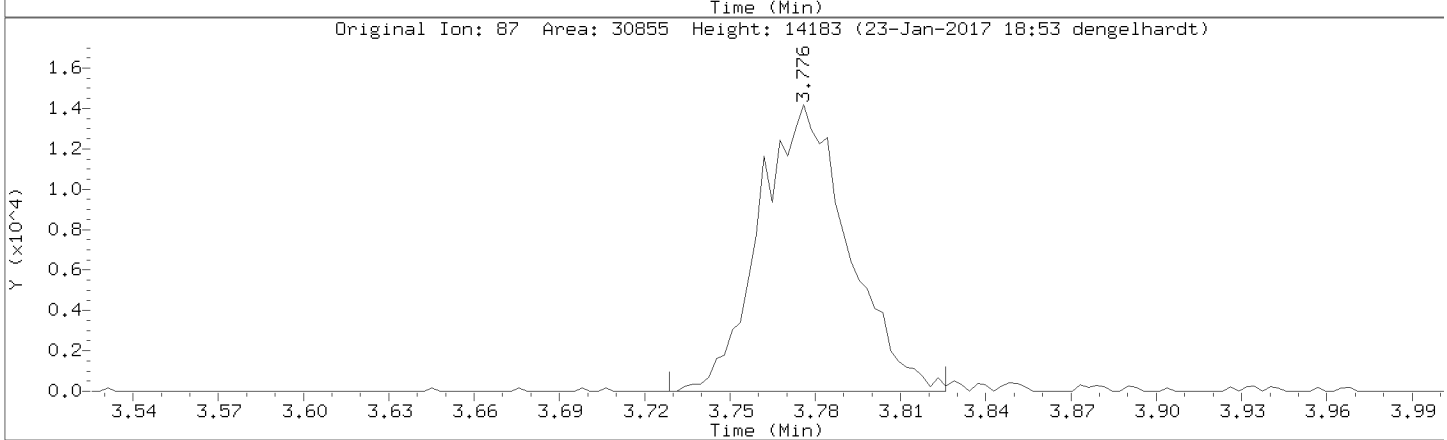
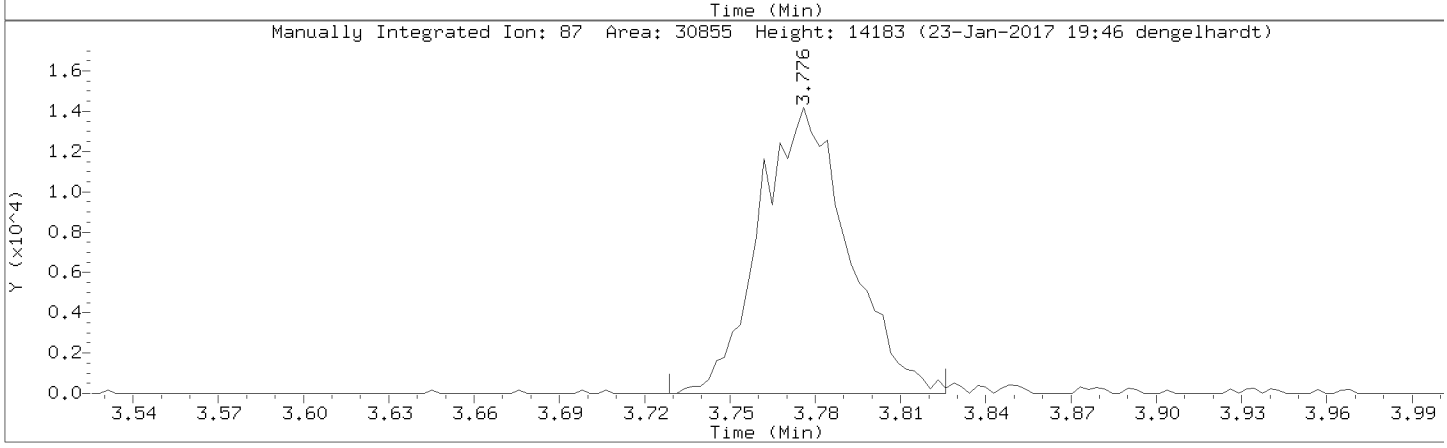
Injection Date: 23-JAN-2017 00:05
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: isopropyl acetate Review Code: WP
CAS Number: 108-21-4









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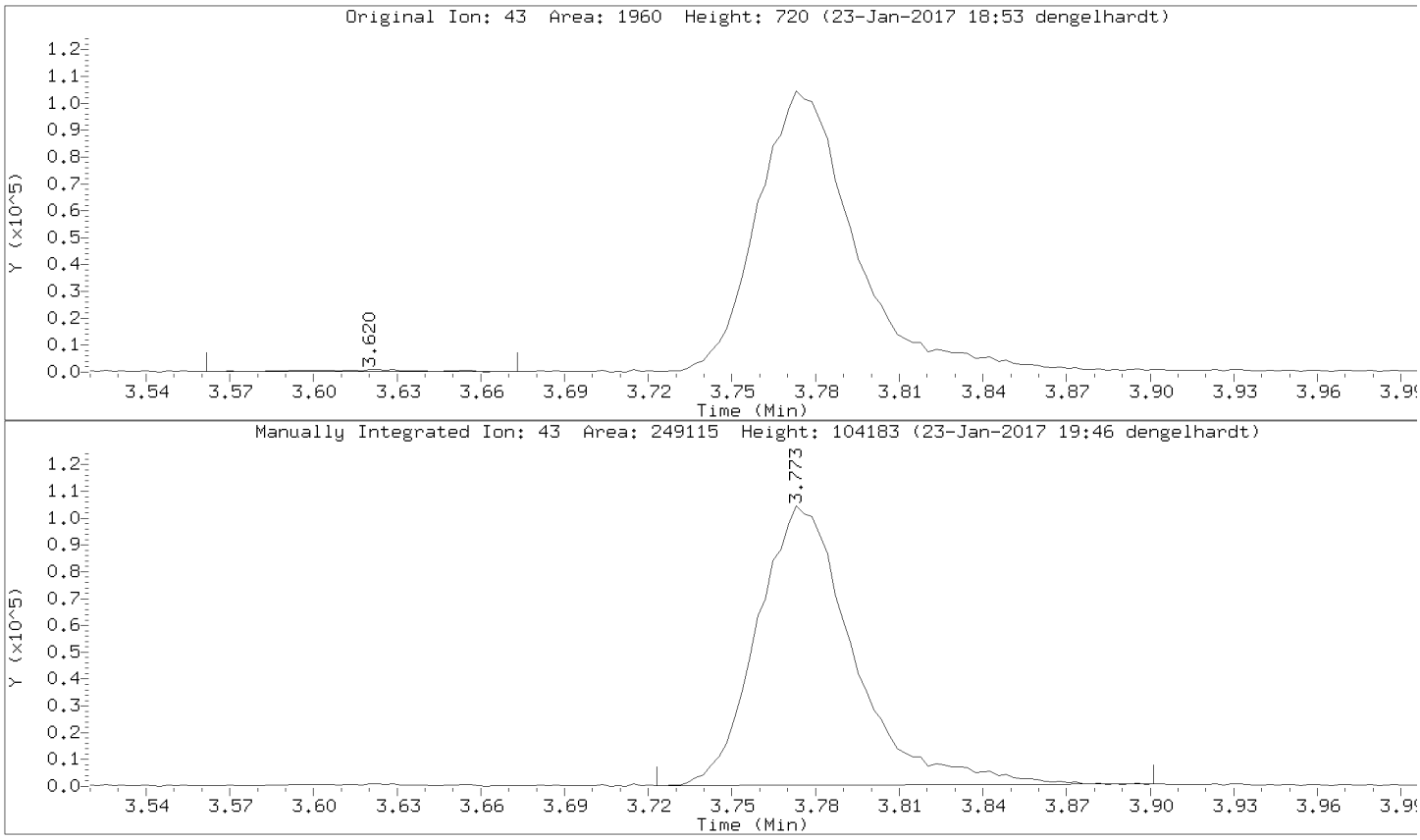

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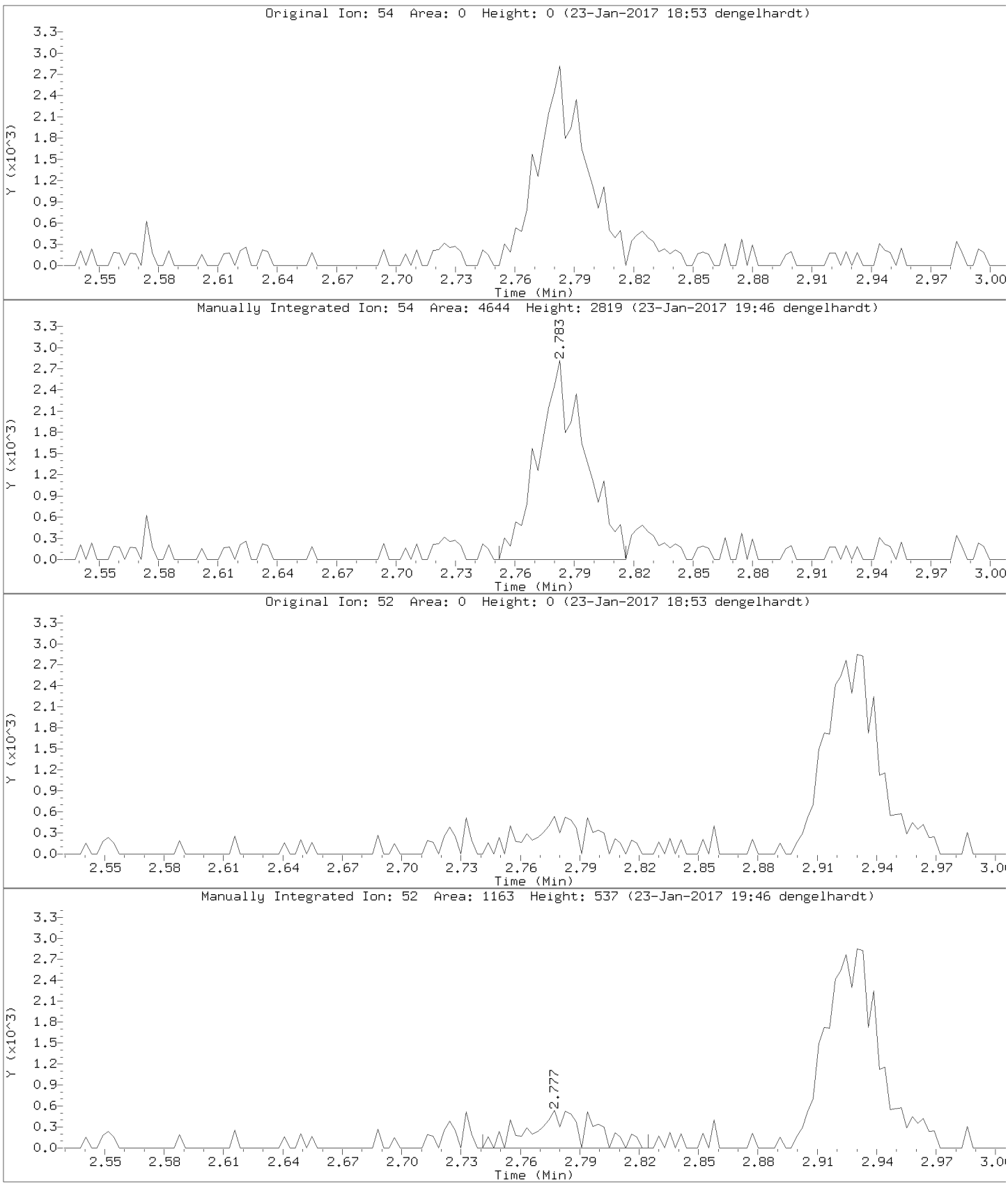
Injection Date: 23-JAN-2017 00:05
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0



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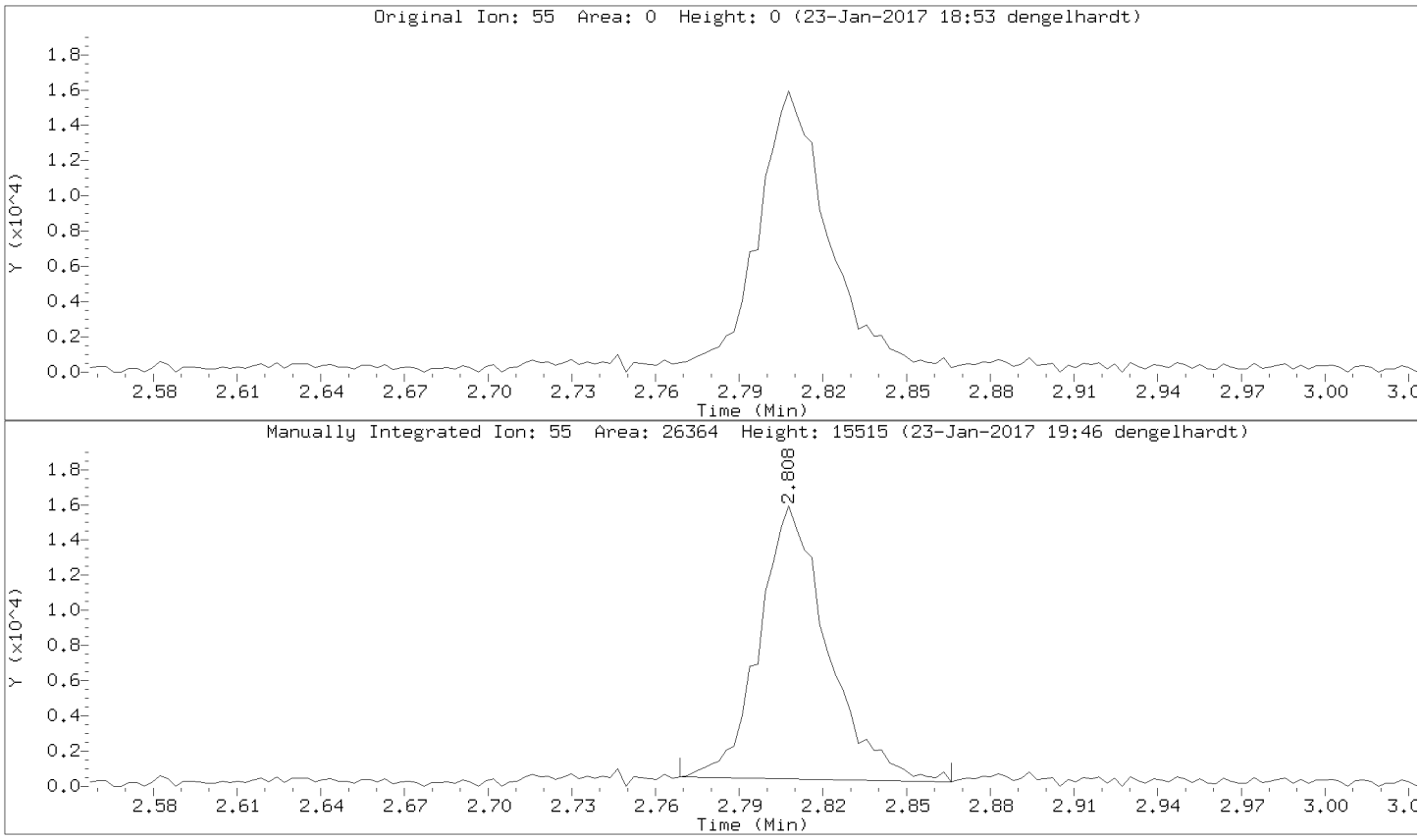
Lab Sample ID: 8260-CAL5



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a06cal6.d
Lab Smp Id: 8260-CAL6 Client Smp ID: 8260-CAL6
Inj Date : 23-JAN-2017 00:38
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal6,140431:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.873	0.874	(0.215)	115482	50.0000	51.8	
2 Chloromethane	50	0.951	0.952	(0.234)	126059	50.0000	49.1	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	164372	50.0000	55.4	
4 Bromomethane	94	1.138	1.138	(0.280)	76674	50.0000	31.6	
5 Chloroethane	64	1.182	1.182	(0.291)	99386	50.0000	49.7	
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	207292	50.0000	56.5	
7 Diethyl ether	74	1.416	1.416	(0.348)	86659	50.0000	45.8	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	163381	50.0000	40.2	
9 Acrolein	56	1.488	1.489	(0.366)	420589	1000.00	1050	
10 1,1,2trichlorotrifluoroethane	101	1.536	1.539	(0.378)	137080	50.0000	46.4	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	119588	50.0000	40.6	
12 Acetone	43	1.555	1.555	(0.383)	220678	250.000	195	
13 Iodomethane	142	1.627	1.628	(0.400)	339408	100.000	145	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	345271	50.0000	46.3	
15 Methyl Acetate	43	1.719	1.719	(0.423)	152792	50.0000	39.5	
16 Acetonitrile	39	1.733	1.733	(0.426)	292465	50.0000	43.7	
17 allyl chloride	41	1.730	1.733	(0.426)	412865	100.000	88.9	
18 Methylene Chloride	84	1.806	1.806	(0.444)	117708	50.0000	35.6	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	35887	100.000	63.8(Q)	
20 Acrylonitrile	53	1.939	1.942	(0.477)	231308	200.000	156	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	392785	50.0000	45.2	
22 1,2-Dichloroethene (trans)	96	1.972	1.973	(0.485)	120921	50.0000	41.4	
23 n-Hexane	57	2.148	2.148	(0.528)	177586	50.0000	44.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.262	2.262	(0.556)	1206617	200.000	228	
25 1,1-Dichloroethane	63	2.270	2.270	(0.559)	220184	50.0000	46.9	
26 Chloroprene	53	2.323	2.323	(0.572)	187972	50.0000	44.5	
27 Ethyl acetate	88	2.763	2.763	(0.680)	59667	400.000	358(Q)	
28 2-Butanone	72	2.721	2.724	(0.669)	91053	250.000	223	
29 1,2-Dichloroethene (cis)	96	2.732	2.735	(0.672)	132274	50.0000	40.5	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	187374	50.0000	41.8	
31 Propionitrile	54	2.782	2.782	(0.684)	24457	50.0000	46.9	
32 Methacrylonitrile	41	2.924	2.927	(0.719)	92257	50.0000	38.0	
33 Bromochloromethane	49	2.963	2.963	(0.729)	102534	50.0000	44.5	
34 Tetrahydrofuran	42	2.982	2.983	(0.734)	43592	50.0000	32.6	
35 Chloroform	83	3.066	3.069	(0.754)	207083	50.0000	46.4	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	97694	50.0000	49.9	
37 1,1,1-Trichloroethane	97	3.238	3.236	(0.797)	198968	50.0000	44.0	
38 cyclohexane	56	3.314	3.314	(0.815)	213594	50.0000	40.3	
150 n-butyl chloride	56	3.383	3.378	(0.832)	261497	50.0000	41.2(M)	WP
39 Carbon Tetrachloride	117	3.414	3.411	(0.840)	176068	50.0000	45.3	
40 1,1-Dichloropropene	75	3.416	3.419	(0.841)	178122	50.0000	47.4(M)	NI
41 Benzene	78	3.659	3.659	(0.900)	488192	50.0000	45.0	
42 1,2-Dichloroethane	62	3.748	3.748	(0.922)	168223	50.0000	45.0	
43 2,2,4-Trimethylpentane	57	3.825	3.826	(0.941)	327452	50.0000	42.8	
44 Isobutyl alcohol	43	3.770	3.770	(0.927)	1224061	50.0000	50.9(M)	NI
* 45 Fluorobenzene	96	4.065	4.068	(1.000)	388506	50.0000		
46 isopropyl acetate	61	3.770	3.773	(0.927)	254138	200.000	194(M)	WP
47 Trichloroethene	95	4.529	4.527	(1.114)	124032	50.0000	42.0	
48 Methylcyclohexane	55	4.794	4.794	(1.179)	148405	50.0000	42.4	
49 1,2-Dichloropropane	63	4.844	4.847	(1.192)	125648	50.0000	46.1	
50 1,4-Dioxane	88	4.947	4.947	(1.217)	32170	1000.00	1040	
51 Dibromomethane	93	4.941	4.938	(1.216)	78436	50.0000	46.3	
52 Methyl methacrylate	69	4.961	4.961	(1.220)	106076	50.0000	46.2(M)	WP
53 Bromodichloromethane	83	5.172	5.172	(1.272)	155175	50.0000	44.4	
54 2-Chloroethyl vinyl ether	63	5.528	5.531	(0.751)	190907	100.000	97.6	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	198876	50.0000	47.0	
56 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	695649	250.000	240	
$ 57 Toluene-d8	98	5.948	5.948	(0.808)	369207	50.0000	49.8	
58 Toluene	91	6.023	6.024	(0.818)	512016	50.0000	43.0	
59 trans-1,3-Dichloropropene	75	6.318	6.316	(0.858)	184611	50.0000	48.2	
60 Ethyl Methacrylate	69	6.407	6.405	(0.870)	177786	50.0000	45.2	
61 1,1,2-Trichloroethane	83	6.516	6.513	(0.885)	90962	50.0000	45.2	
62 Tetrachloroethene	166	6.560	6.561	(0.891)	149231	50.0000	43.5	
63 1,3-Dichloropropane	76	6.663	6.663	(0.905)	196801	50.0000	47.9	
64 2-Hexanone	43	6.738	6.739	(0.915)	467872	250.000	253	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	129080	50.0000	46.3	
66 1,2-Dibromoethane	107	6.955	6.956	(0.944)	115999	50.0000	46.7	
* 67 Chlorobenzene-d5	117	7.364	7.365	(1.000)	285925	50.0000		
68 Chlorobenzene	112	7.389	7.390	(1.003)	324871	50.0000	47.6	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.016)	127021	50.0000	49.2	
70 Ethylbenzene	106	7.487	7.484	(1.017)	178908	50.0000	48.5	
71 m&p-Xylene	106	7.601	7.598	(1.032)	423635	100.000	94.1	
72 o-Xylene	106	7.899	7.899	(1.073)	202013	50.0000	49.7	
73 Styrene	104	7.918	7.918	(1.075)	354099	50.0000	51.2	
74 Bromoform	173	8.054	8.055	(0.883)	107476	50.0000	46.0	
75 Isopropylbenzene	105	8.182	8.183	(1.111)	517158	50.0000	50.7	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.129)	127744	50.0000	50.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	422302	200.000	222	
78 Bromobenzene	77	8.402	8.402	(1.141)	188221	50.0000	45.2	
79 1,1,2,2-Tetrachloroethane	83	8.424	8.425	(0.924)	151696	50.0000	47.4	
80 trans-1,4-Dichloro-2-butene	53	8.447	8.447	(1.147)	40738	50.0000	43.9	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	50468	50.0000	43.5(Q)	
82 n-Propylbenzene	91	8.488	8.486	(0.931)	565967	50.0000	51.3	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	329441	50.0000	45.2	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	395126	50.0000	46.7	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	124773	50.0000	46.4	
86 tert-Butylbenzene	119	8.833	8.834	(0.969)	411976	50.0000	45.4	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	404202	50.0000	45.7	
88 sec-Butylbenzene	105	8.987	8.984	(0.986)	498219	50.0000	48.8	
89 1,3-Dichlorobenzene	146	9.064	9.065	(0.994)	257018	50.0000	47.6	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	418255	50.0000	50.0	
* 91 1,4-Dichlorobenzene-d4	152	9.117	9.117	(1.000)	153787	50.0000		
92 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	262681	50.0000	43.5	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	329404	50.0000	46.4	
94 1,2-Dichlorobenzene	146	9.368	9.365	(1.027)	250497	50.0000	47.7	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.871	(1.083)	32190	50.0000	49.1	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	158248	50.0000	50.6	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	67893	50.0000	52.6	
98 Naphthalene	128	10.533	10.534	(1.155)	464855	50.0000	50.2	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	152930	50.0000	51.7	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	261596	50.0000	51.6	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	227273	50.0000	49.2	

QC Flag Legend

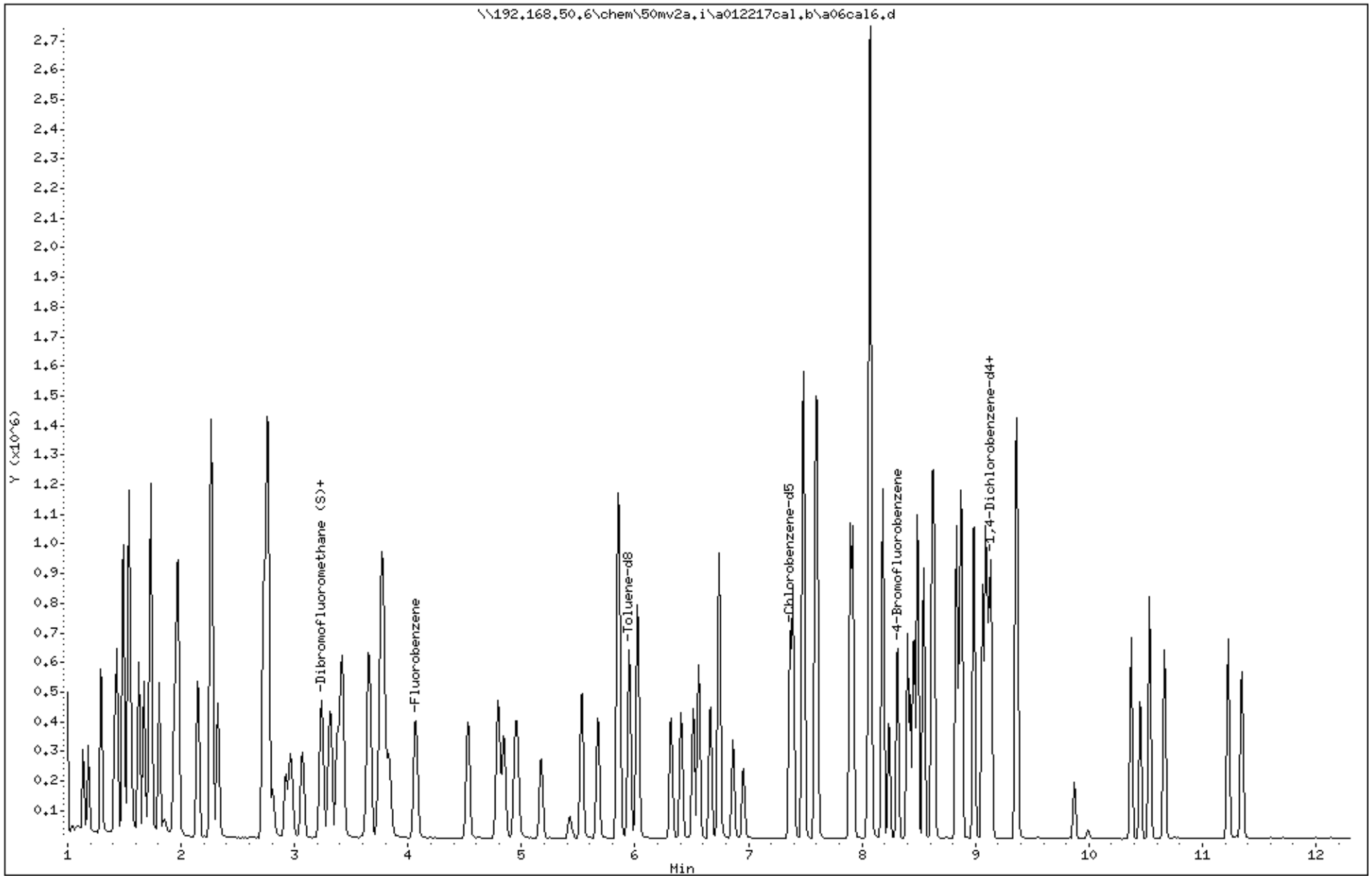
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a06cal6.d
Date : 23-JAN-2017 00:38
Client ID: 8260-CAL6
Sample Info: 8260-CAL6,140431:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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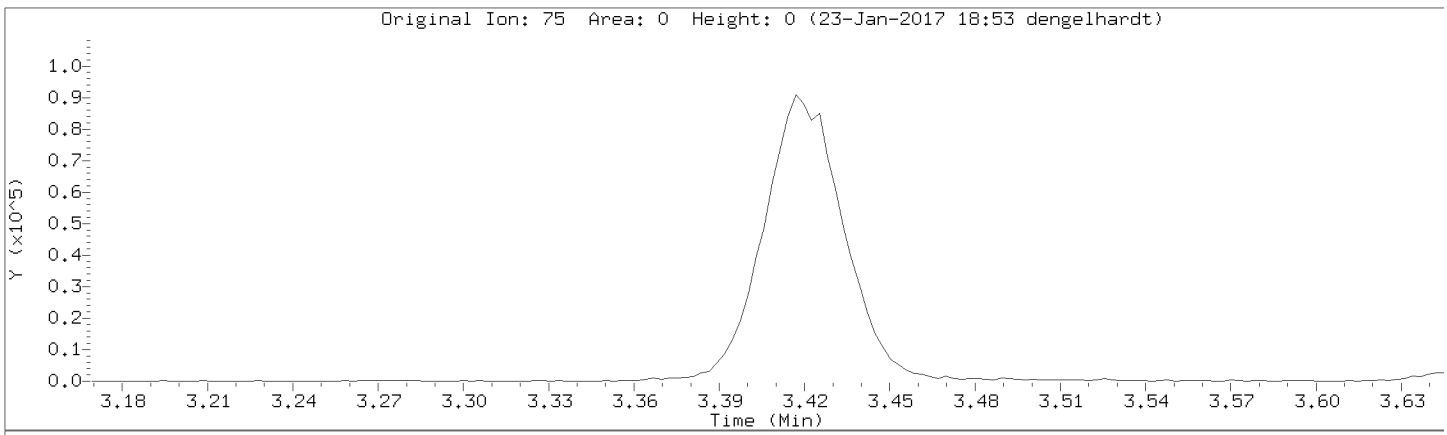
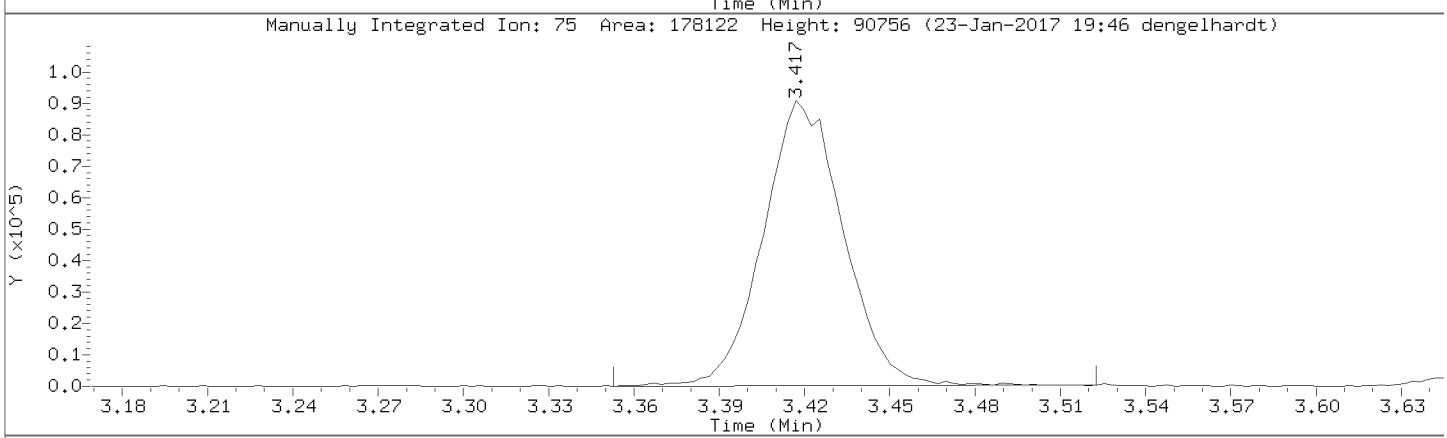
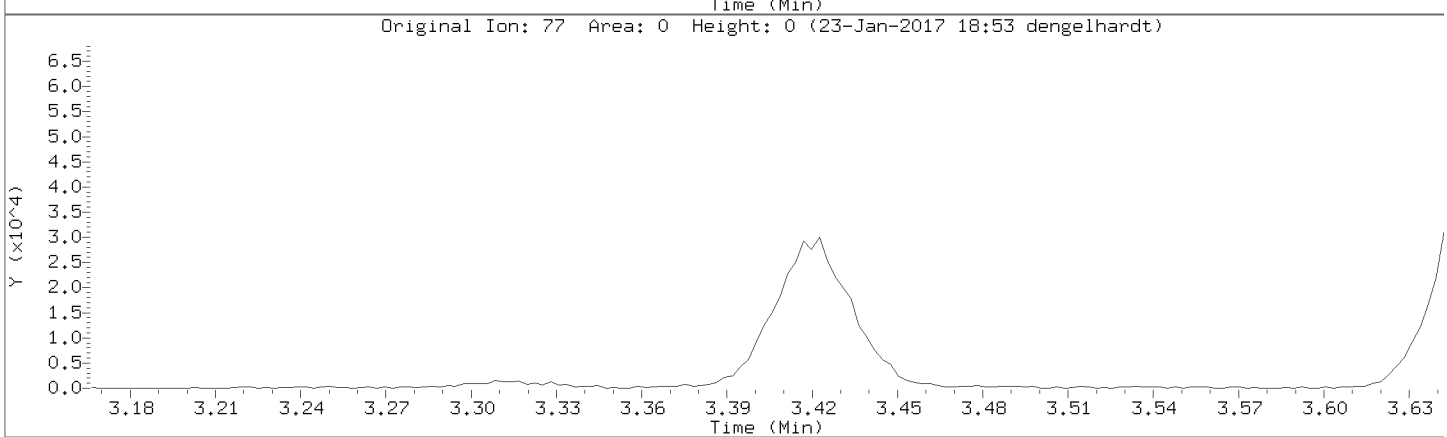
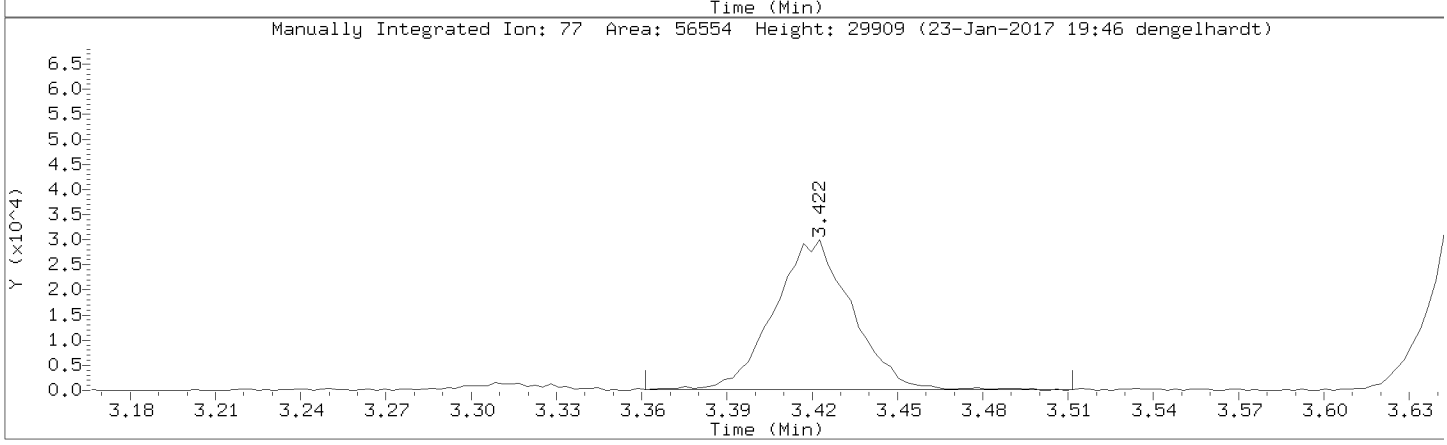
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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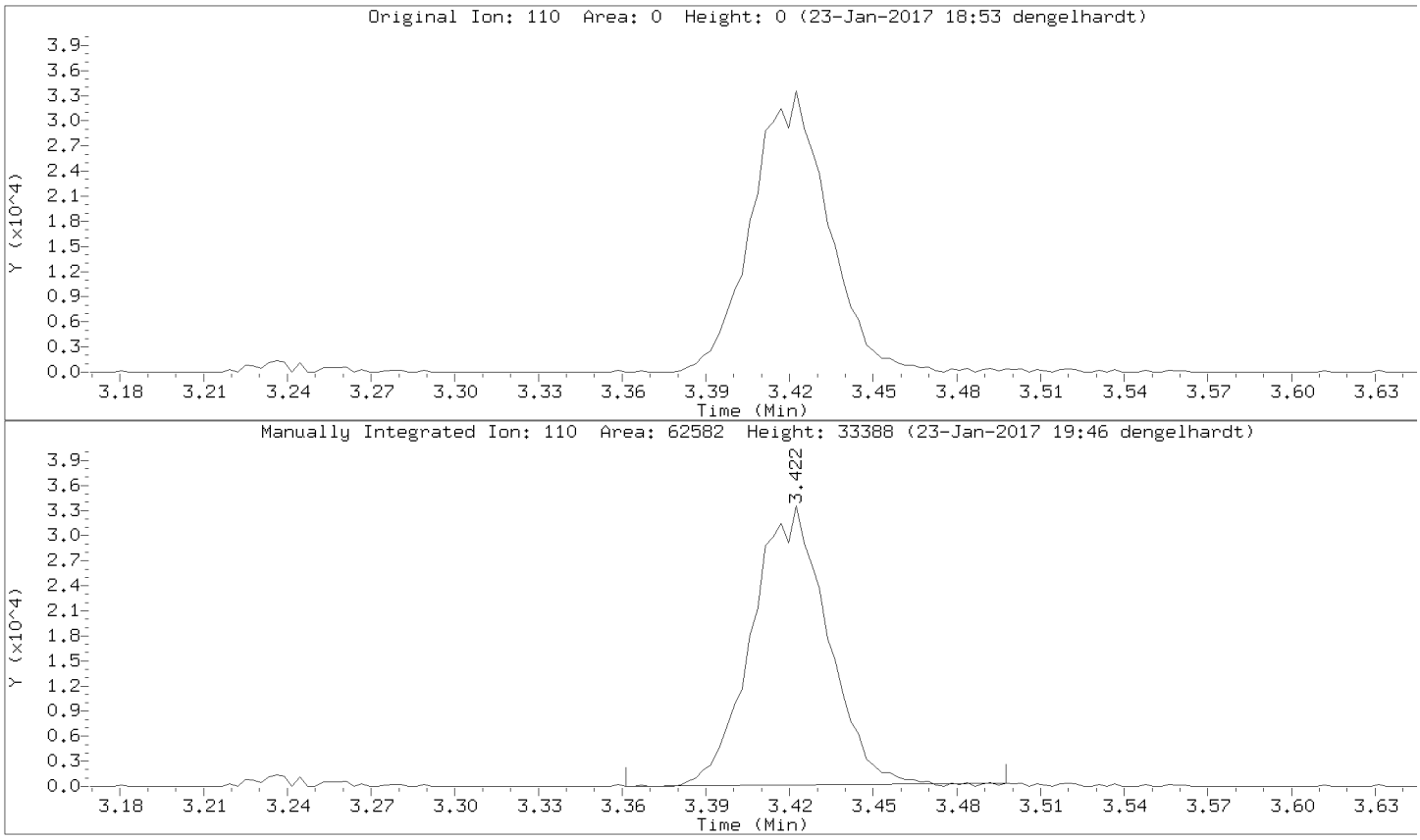
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6



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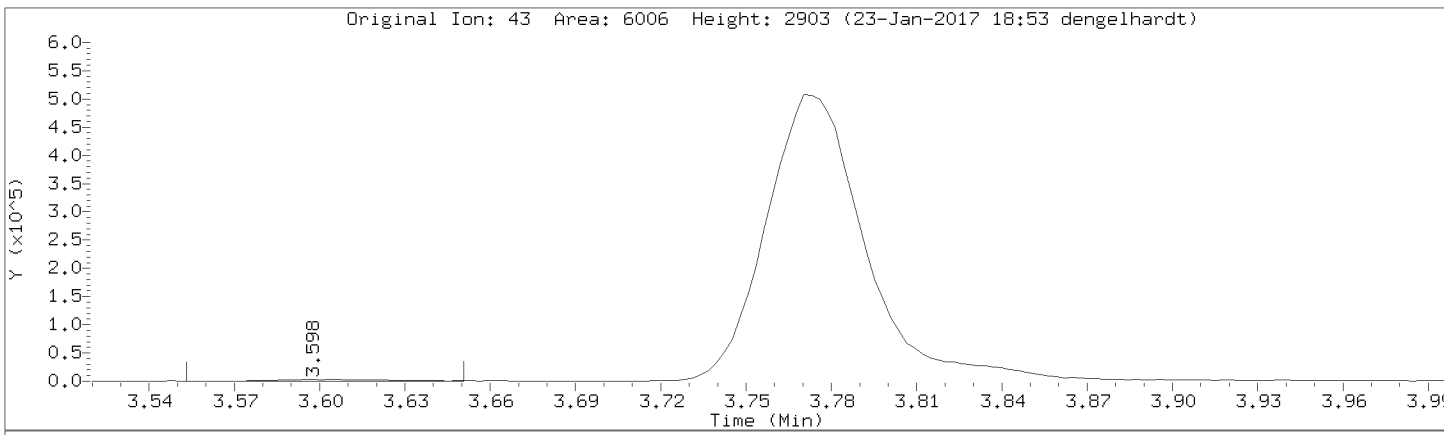
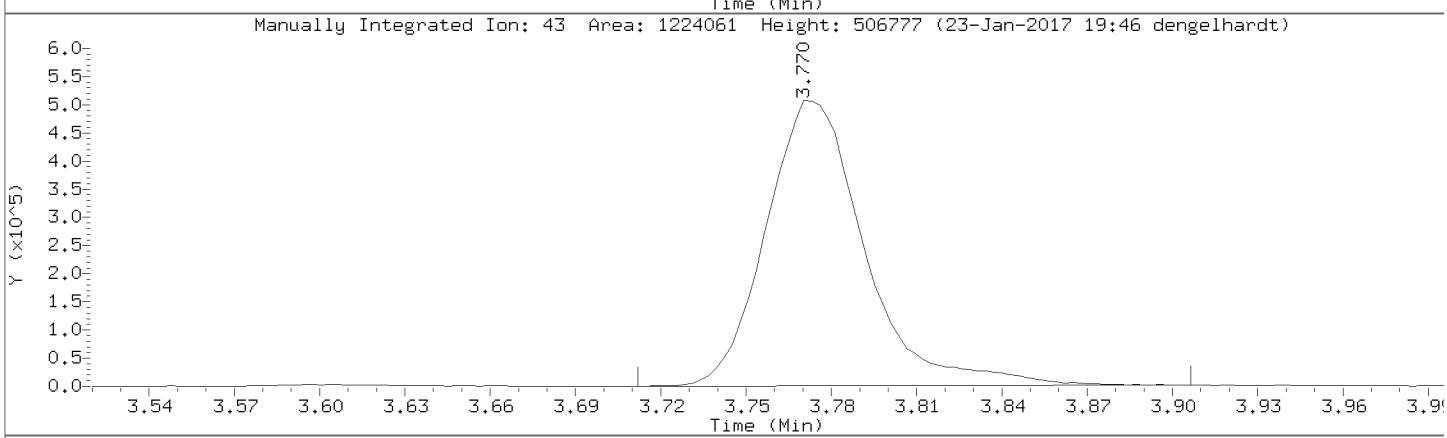
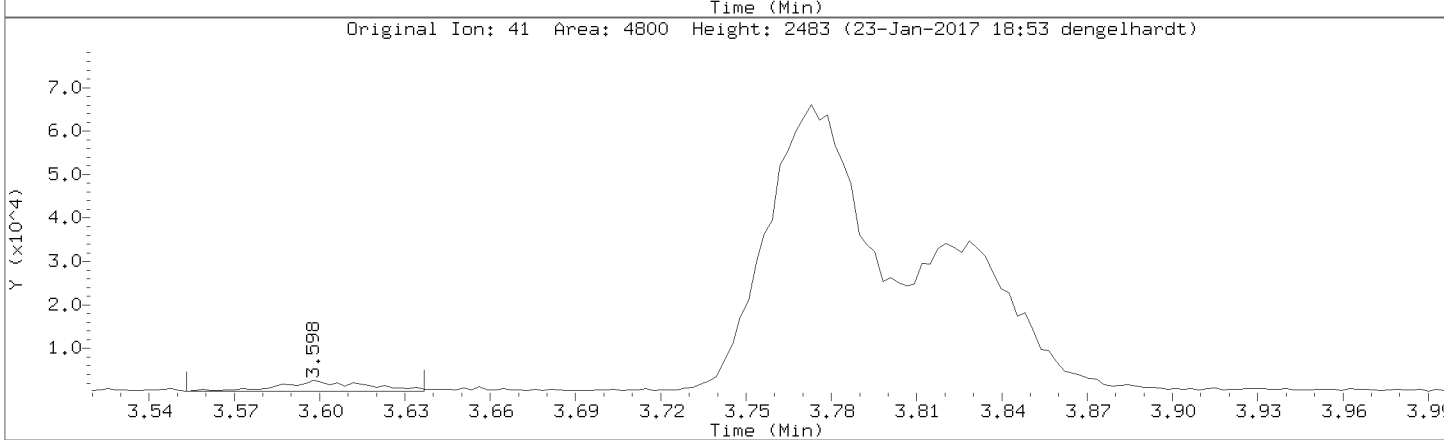
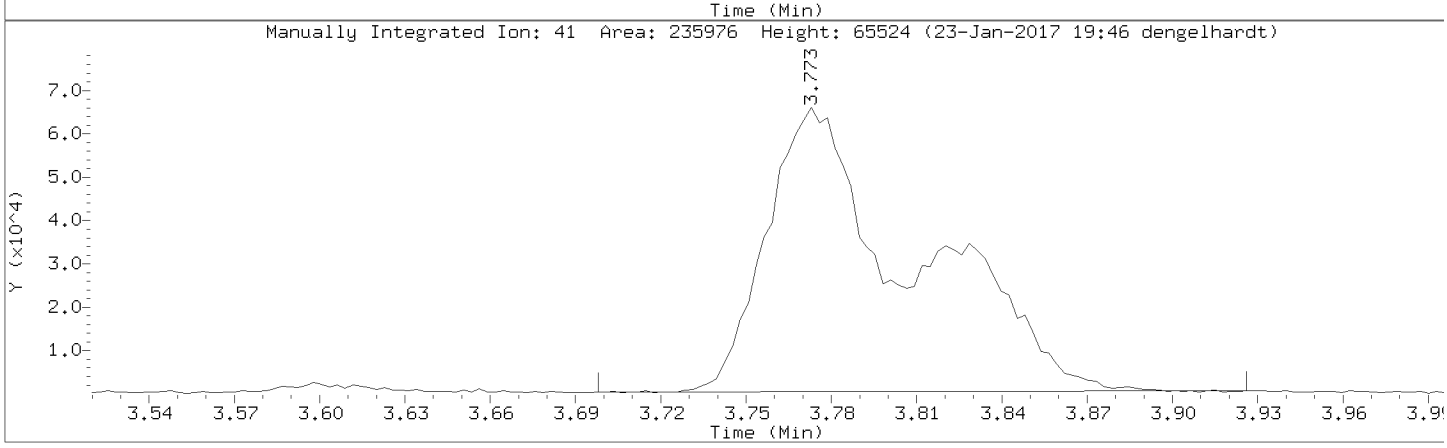
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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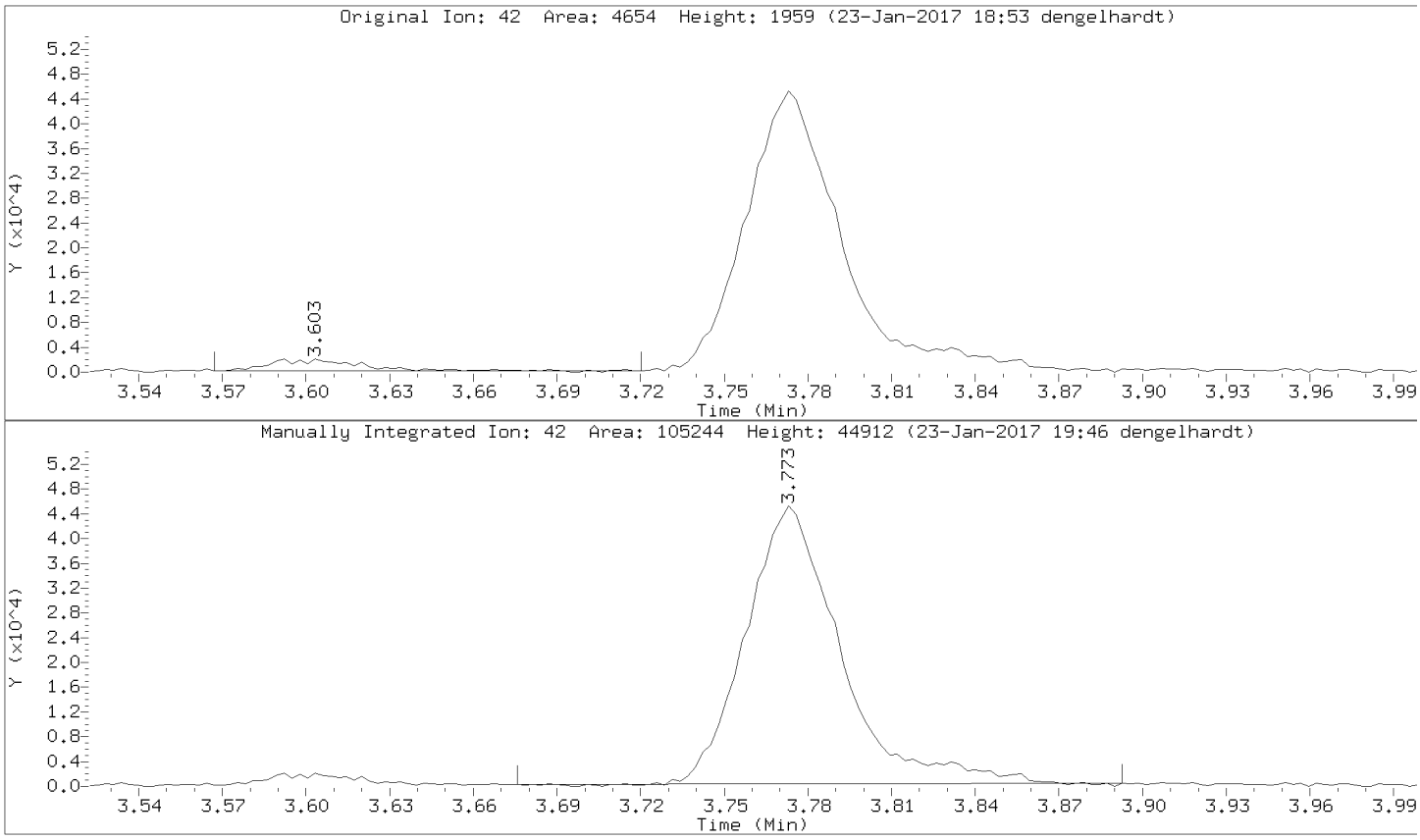
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6



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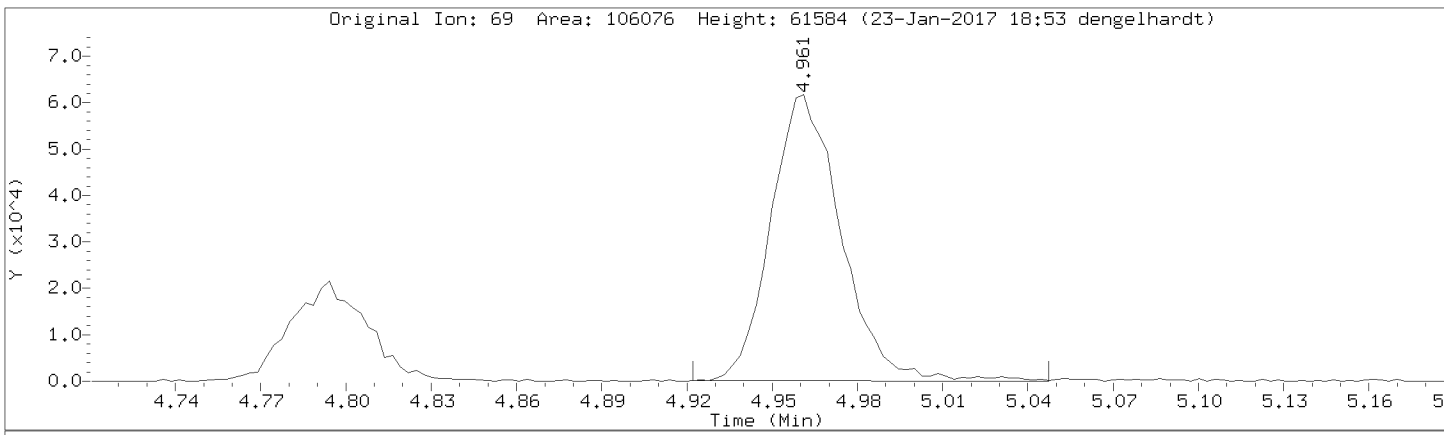
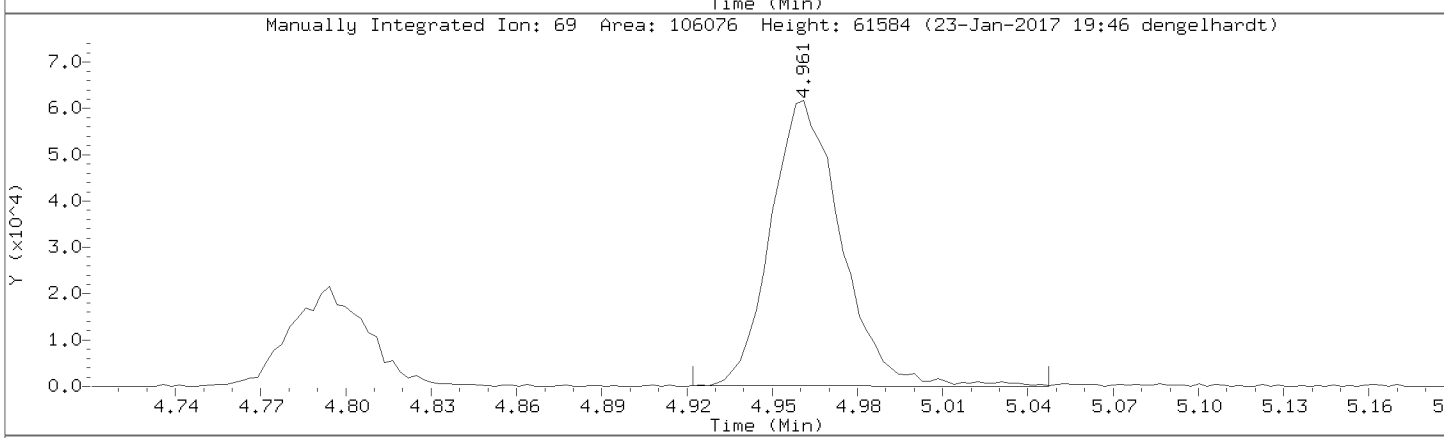
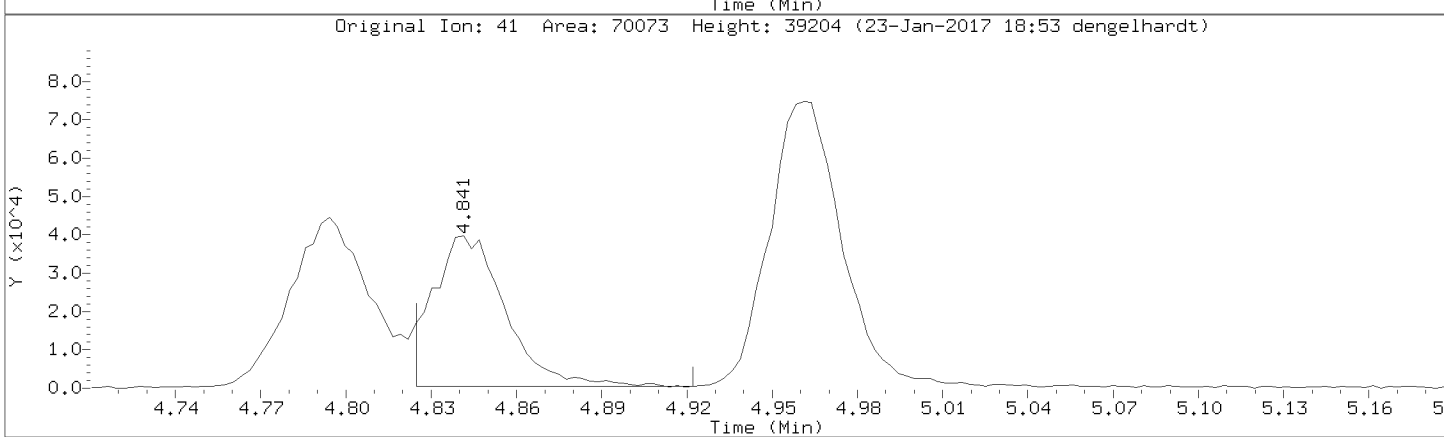
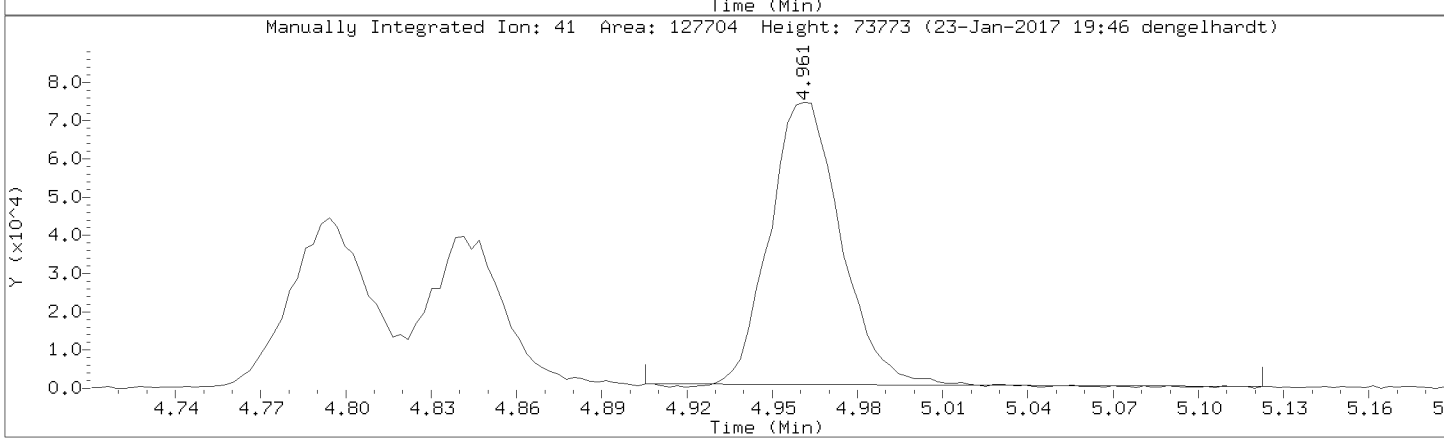
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: Methyl methacrylate Review Code: WP
CAS Number: 80-62-6









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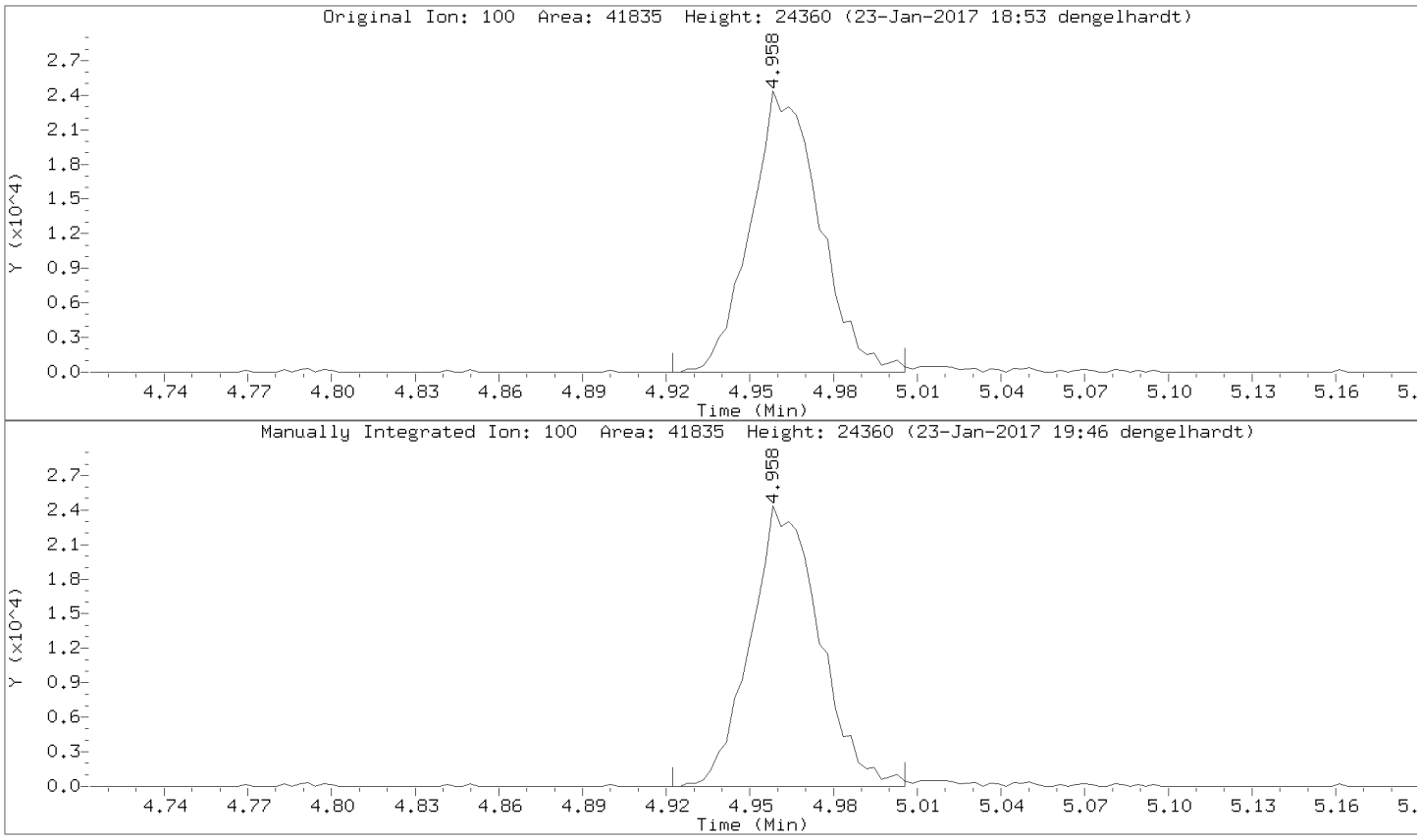
Lab Sample ID: 8260-CAL6



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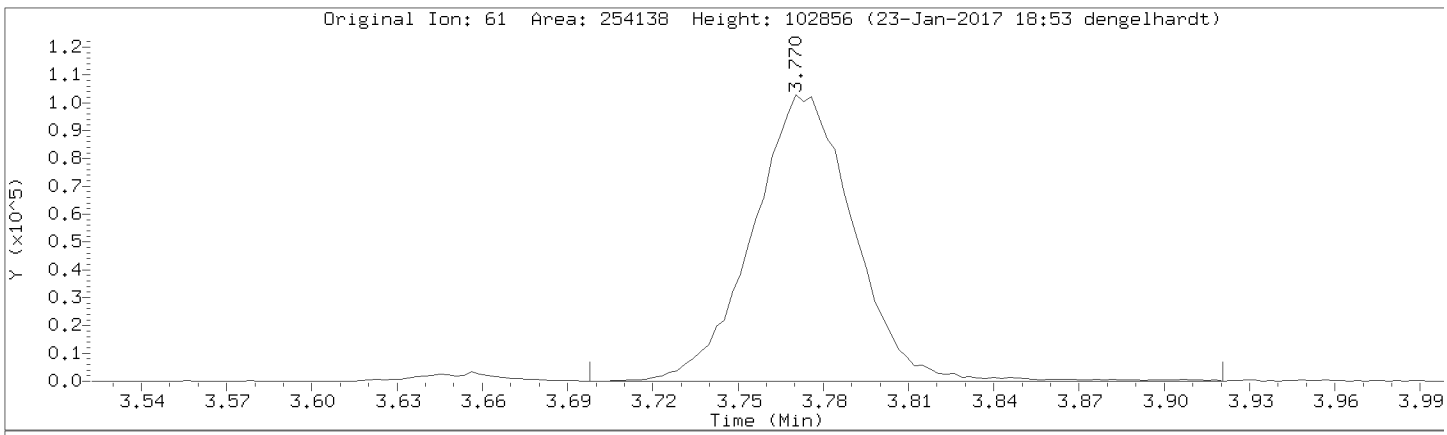
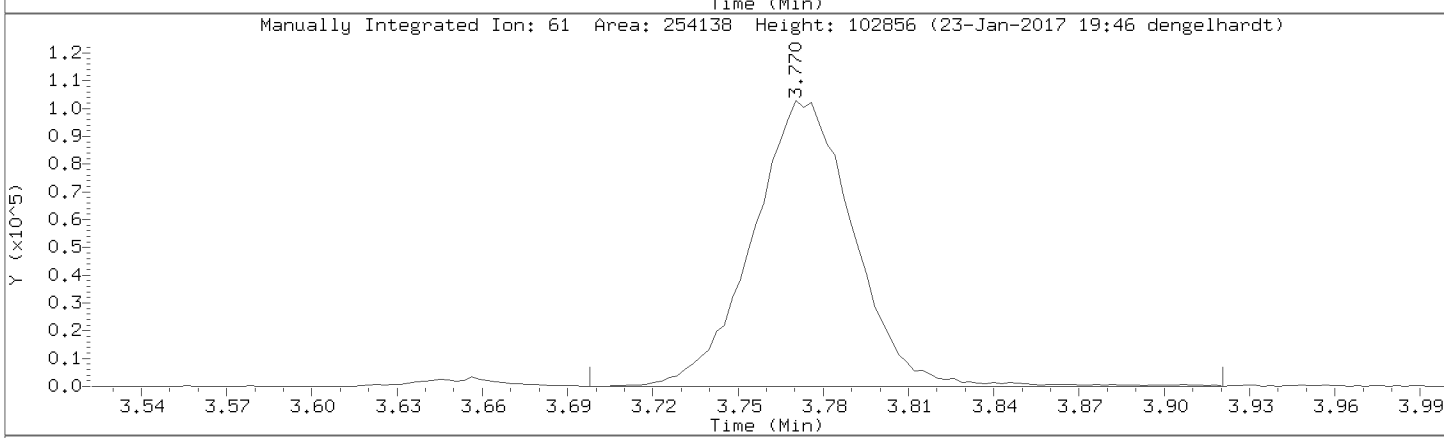
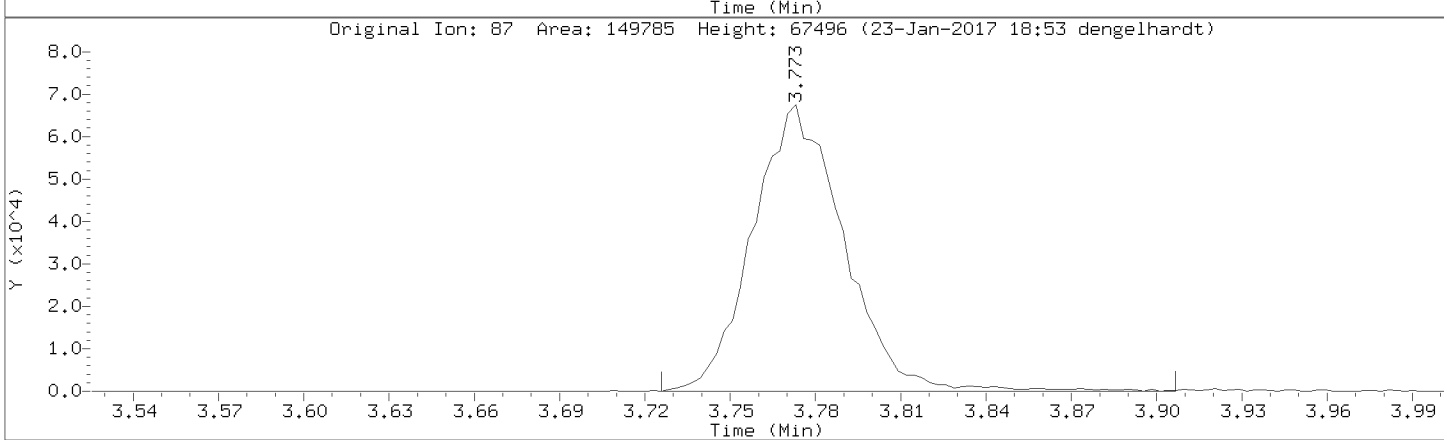
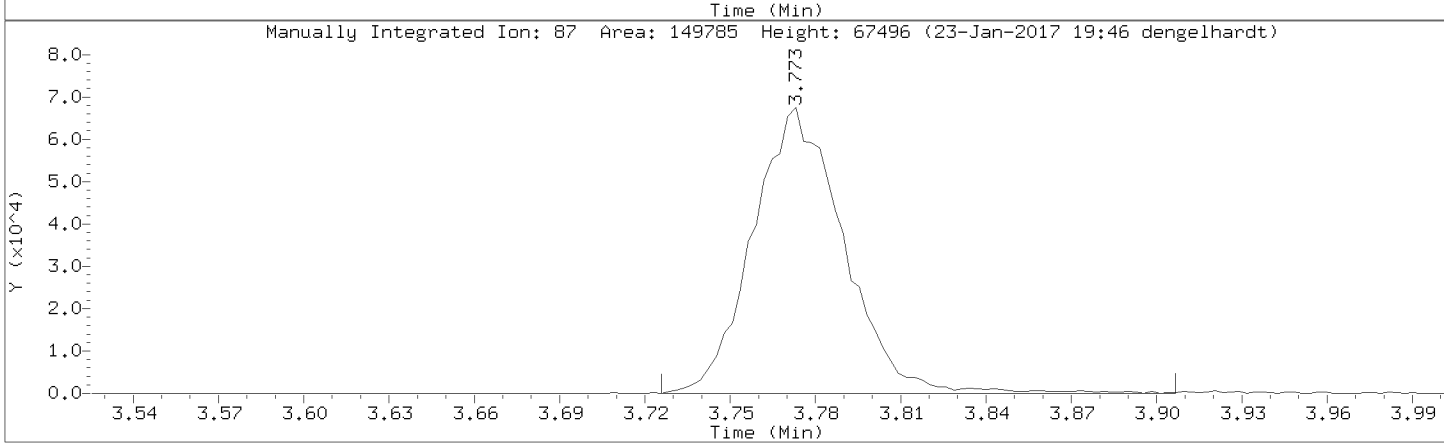
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: isopropyl acetate Review Code: WP
CAS Number: 108-21-4









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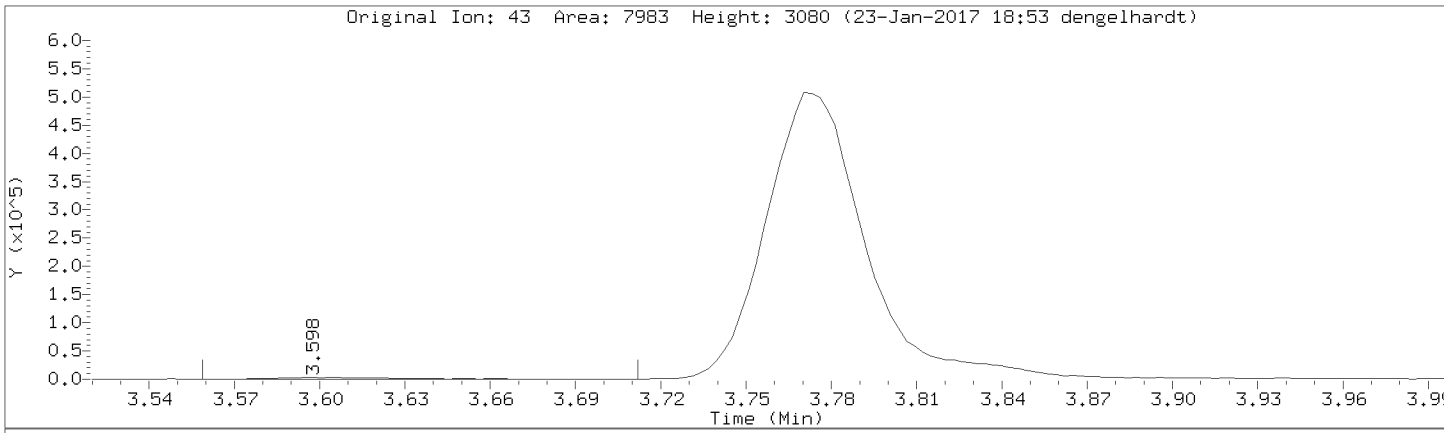
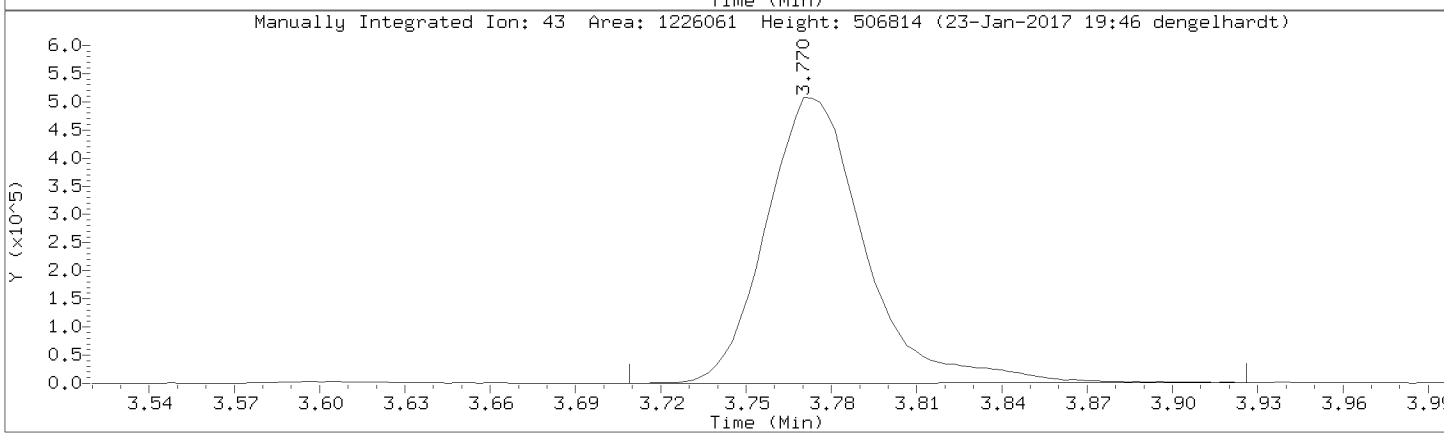
Lab Sample ID: 8260-CAL6





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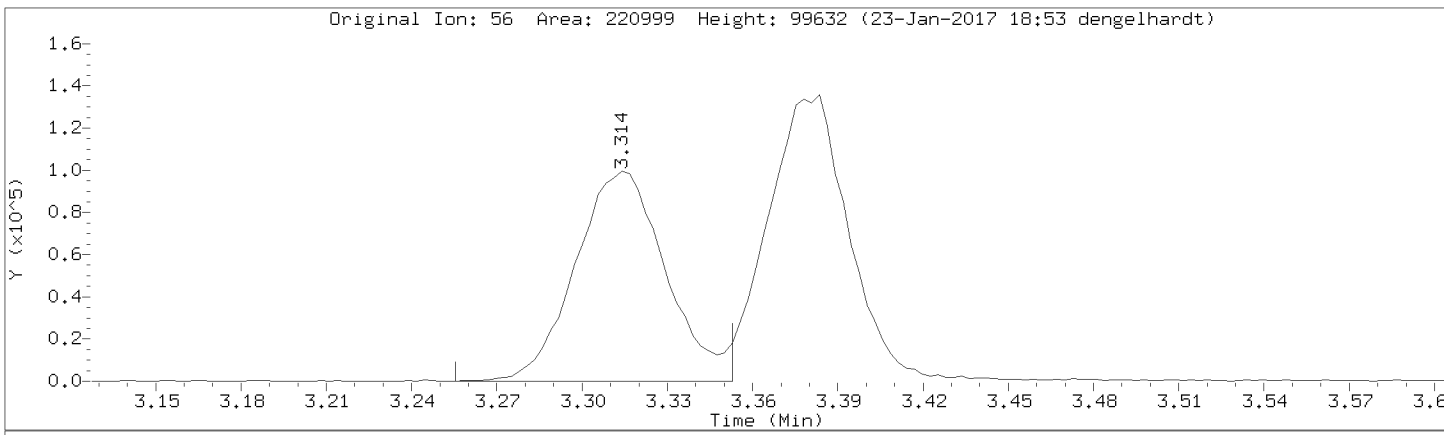
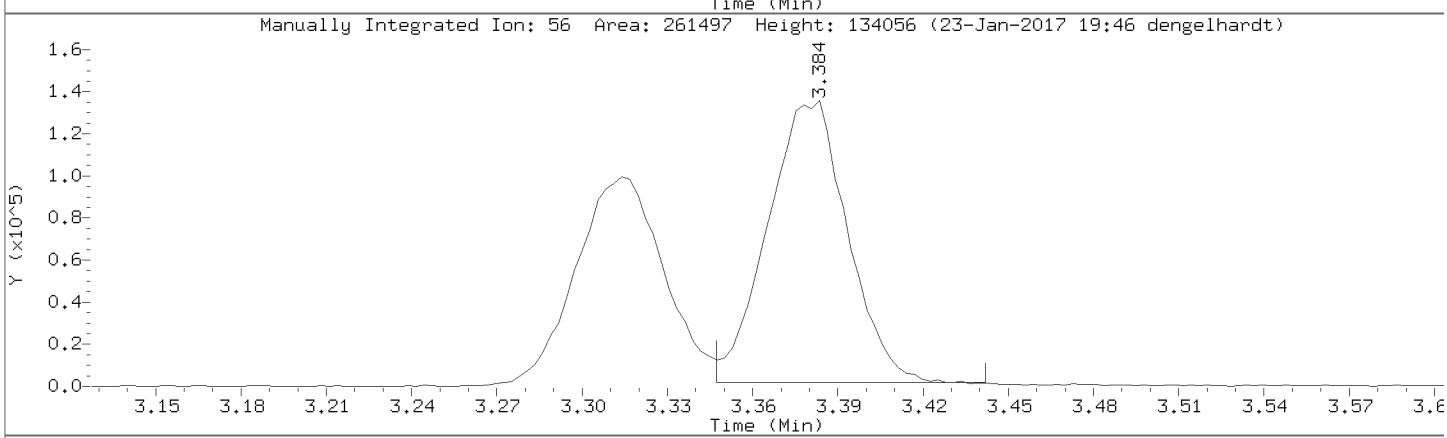
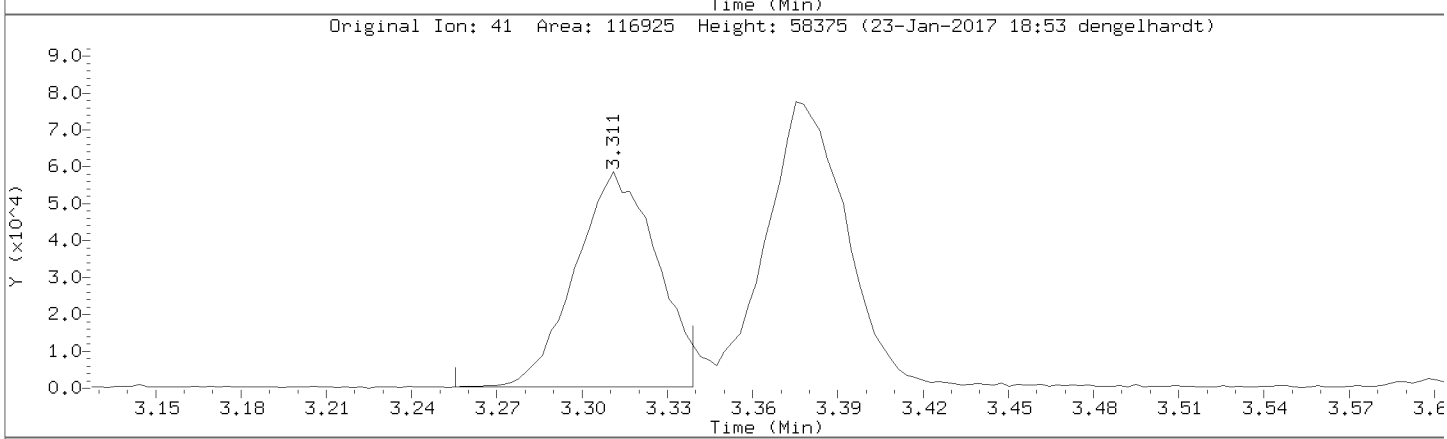
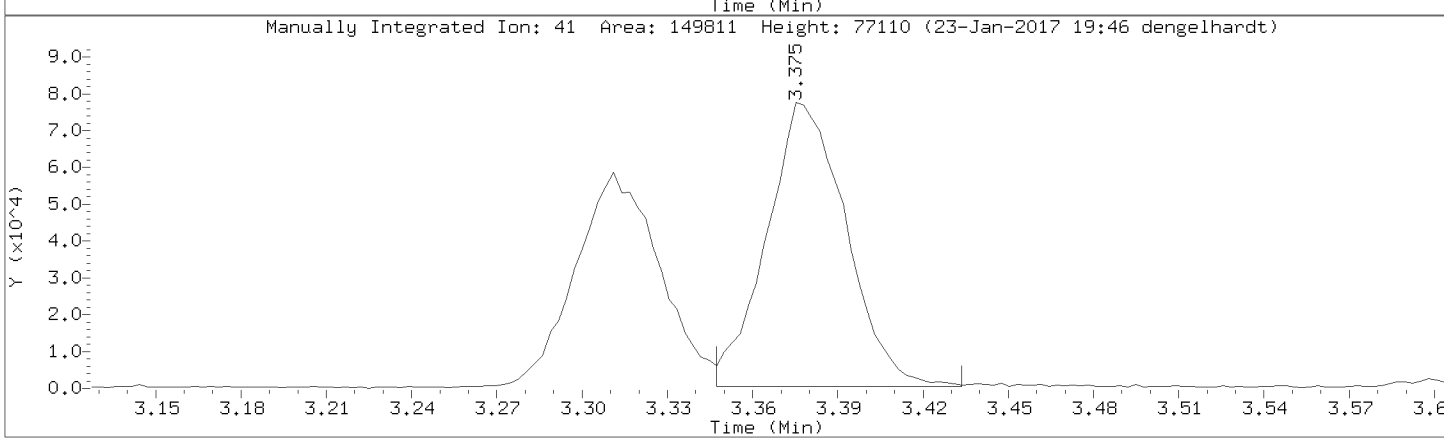
Injection Date: 23-JAN-2017 00:38
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: n-butyl chloride Review Code: WP
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a07cal7.d
Lab Smp Id: 8260-CAL7 Client Smp ID: 8260-CAL7
Inj Date : 23-JAN-2017 01:11
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal7,140432:0
Misc Info : 99071
Comment   :
Method   : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.871	0.874	(0.214)	334946	150.000	148	
2 Chloromethane	50	0.952	0.952	(0.234)	357860	150.000	139(M)	WP
3 Vinyl Chloride	62	0.996	0.999	(0.245)	480146	150.000	158	
4 Bromomethane	94	1.130	1.138	(0.278)	205776	150.000	89.9(M)	LT
5 Chloroethane	64	1.177	1.182	(0.290)	304903	150.000	152	
6 Trichlorofluoromethane	101	1.291	1.294	(0.318)	597360	150.000	158	
7 Diethyl ether	74	1.416	1.416	(0.348)	252854	150.000	135	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	476015	150.000	120	
9 Acrolein	56	1.489	1.489	(0.366)	1240596	3000.00	3040	
10 1,1,2trichlorotrifluoroethane	101	1.533	1.539	(0.377)	405583	150.000	138	
11 1,1-Dichloroethene	96	1.539	1.541	(0.379)	346716	150.000	121	
12 Acetone	43	1.555	1.555	(0.383)	658638	750.000	602	
13 Iodomethane	142	1.625	1.628	(0.400)	1033900	300.000	408	
14 Carbon Disulfide	76	1.669	1.672	(0.411)	1033873	150.000	139	
15 Methyl Acetate	43	1.719	1.719	(0.423)	452380	150.000	120	
16 Acetonitrile	39	1.731	1.733	(0.426)	819371	150.000	124	
17 allyl chloride	41	1.731	1.733	(0.426)	1174298	300.000	256	
18 Methylene Chloride	84	1.806	1.806	(0.444)	339617	150.000	107	
19 tert-Butyl Alcohol	59	1.861	1.853	(0.458)	92893	300.000	175	
20 Acrylonitrile	53	1.942	1.942	(0.478)	665086	600.000	462	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	1166991	150.000	136	
22 1,2-Dichloroethene (trans)	96	1.970	1.973	(0.485)	357418	150.000	125	
23 n-Hexane	57	2.148	2.148	(0.528)	518754	150.000	130	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.262	2.262	(0.557)	3591685	600.000	660	
25 1,1-Dichloroethane	63	2.270	2.270	(0.559)	648717	150.000	139	
26 Chloroprene	53	2.323	2.323	(0.572)	559562	150.000	134	
27 Ethyl acetate	88	2.766	2.763	(0.680)	168545	1200.00	1020(QM)	NI
28 2-Butanone	72	2.727	2.724	(0.671)	259765	750.000	644	
29 1,2-Dichloroethene (cis)	96	2.732	2.735	(0.672)	388184	150.000	122(Q)	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	551013	150.000	126	
31 Propionitrile	54	2.785	2.782	(0.685)	67111	150.000	129	
32 Methacrylonitrile	41	2.924	2.927	(0.719)	260622	150.000	111	
33 Bromochloromethane	49	2.963	2.963	(0.729)	256276	150.000	113	
34 Tetrahydrofuran	42	2.977	2.983	(0.732)	132415	150.000	105	
35 Chloroform	83	3.066	3.069	(0.754)	611172	150.000	138	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.797)	98495	50.0000	50.0	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.796)	580824	150.000	130	
38 cyclohexane	56	3.314	3.314	(0.815)	614984	150.000	119	
150 n-butyl chloride	56	3.380	3.378	(0.832)	777796	150.000	125(M)	WP
39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	523990	150.000	136(M)	WP
40 1,1-Dichloropropene	75	3.419	3.419	(0.841)	523038	150.000	140(M)	NI
41 Benzene	78	3.659	3.659	(0.900)	1432721	150.000	133	
42 1,2-Dichloroethane	62	3.748	3.748	(0.922)	486214	150.000	132(M)	WP
43 2,2,4-Trimethylpentane	57	3.826	3.826	(0.941)	964318	150.000	128(M)	NI
44 Isobutyl alcohol	43	3.776	3.770	(0.929)	3556708	150.000	146(M)	WP
* 45 Fluorobenzene	96	4.065	4.068	(1.000)	390872	50.0000		
46 isopropyl acetate	61	3.776	3.773	(0.929)	719157	600.000	548(M)	NI
47 Trichloroethene	95	4.527	4.527	(1.114)	362075	150.000	125	
48 Methylcyclohexane	55	4.794	4.794	(1.179)	435565	150.000	127	
49 1,2-Dichloropropane	63	4.844	4.847	(1.192)	355925	150.000	131	
50 1,4-Dioxane	88	4.952	4.947	(1.218)	90584	3000.00	2890(M)	NI
51 Dibromomethane	93	4.941	4.938	(1.216)	219498	150.000	130	
52 Methyl methacrylate	69	4.961	4.961	(1.220)	300499	150.000	132	
53 Bromodichloromethane	83	5.175	5.172	(1.273)	447680	150.000	130	
54 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	542313	300.000	279	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	583233	150.000	140	
56 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	1963099	750.000	683	
$ 57 Toluene-d8	98	5.948	5.948	(0.807)	367479	50.0000	49.8	
58 Toluene	91	6.024	6.024	(0.818)	1474910	150.000	127	
59 trans-1,3-Dichloropropene	75	6.316	6.316	(0.857)	525266	150.000	138	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	511979	150.000	132	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	260913	150.000	132	
62 Tetrachloroethene	166	6.558	6.561	(0.890)	436085	150.000	130	
63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	547159	150.000	134	
64 2-Hexanone	43	6.741	6.739	(0.915)	1327992	750.000	719	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	368652	150.000	134	
66 1,2-Dibromoethane	107	6.953	6.956	(0.944)	336663	150.000	138	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	285201	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	925717	150.000	137	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	355657	150.000	138	
70 Ethylbenzene	106	7.484	7.484	(1.016)	508014	150.000	139	
71 m&p-Xylene	106	7.598	7.598	(1.031)	1205718	300.000	271	
72 o-Xylene	106	7.896	7.899	(1.072)	580756	150.000	143	
73 Styrene	104	7.918	7.918	(1.075)	1023835	150.000	148	
74 Bromoform	173	8.055	8.055	(0.883)	303091	150.000	136	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	1491954	150.000	146	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	126899	50.0000	49.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	1181259	600.000	610	
78 Bromobenzene	77	8.402	8.402	(1.140)	539343	150.000	132	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	415666	150.000	136	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.447	(1.147)	116210	150.000	128	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	141091	150.000	129	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	1625798	150.000	152	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	925783	150.000	134	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	1127251	150.000	140	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	357817	150.000	140	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	1167729	150.000	136	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	1141231	150.000	136	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	1396230	150.000	142	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	722404	150.000	140	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	1188972	150.000	147	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	148151	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	734021	150.000	129	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	960441	150.000	142	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	697487	150.000	139	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.871	(1.082)	93153	150.000	148	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	485213	150.000	161	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	197037	150.000	157	
98 Naphthalene	128	10.534	10.534	(1.155)	1415712	150.000	158	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	473083	150.000	165	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	849435	150.000	173	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	716893	150.000	161	

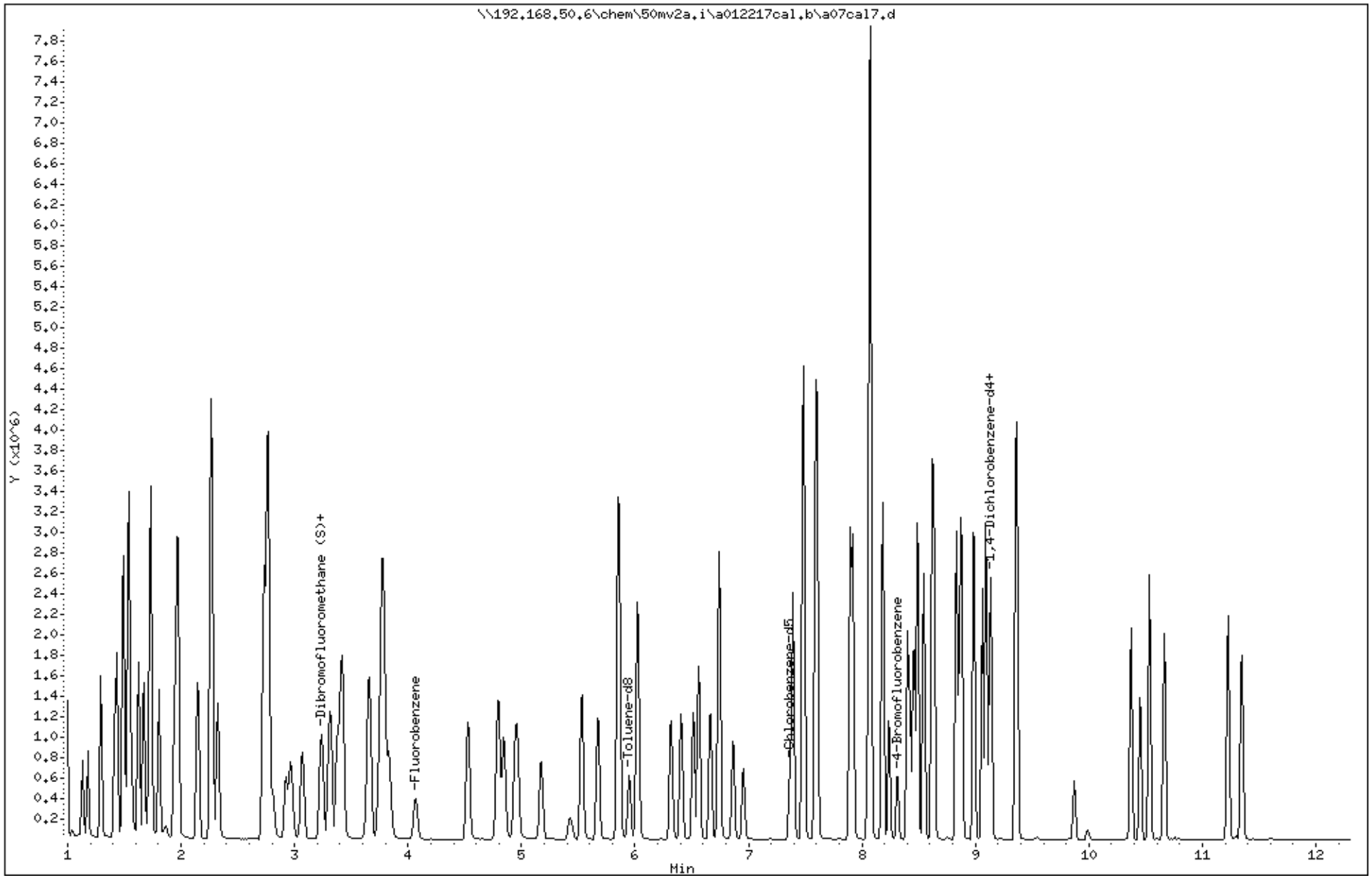
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

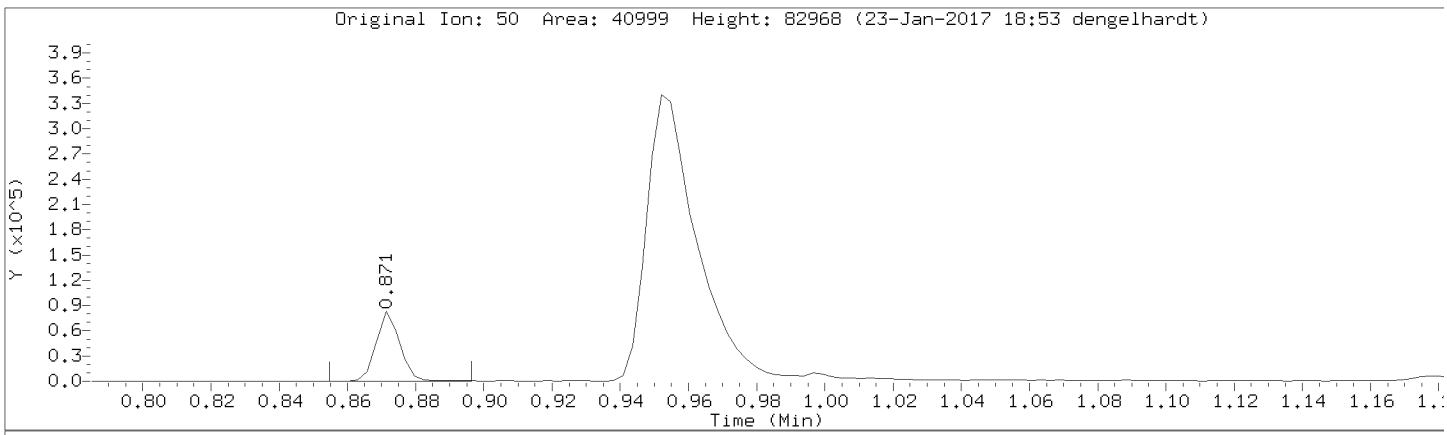
:
WP: Indicates that the wrong peak was chosen by the data system.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
NI: Indicates that the peak was not integrated at all by the computer software.

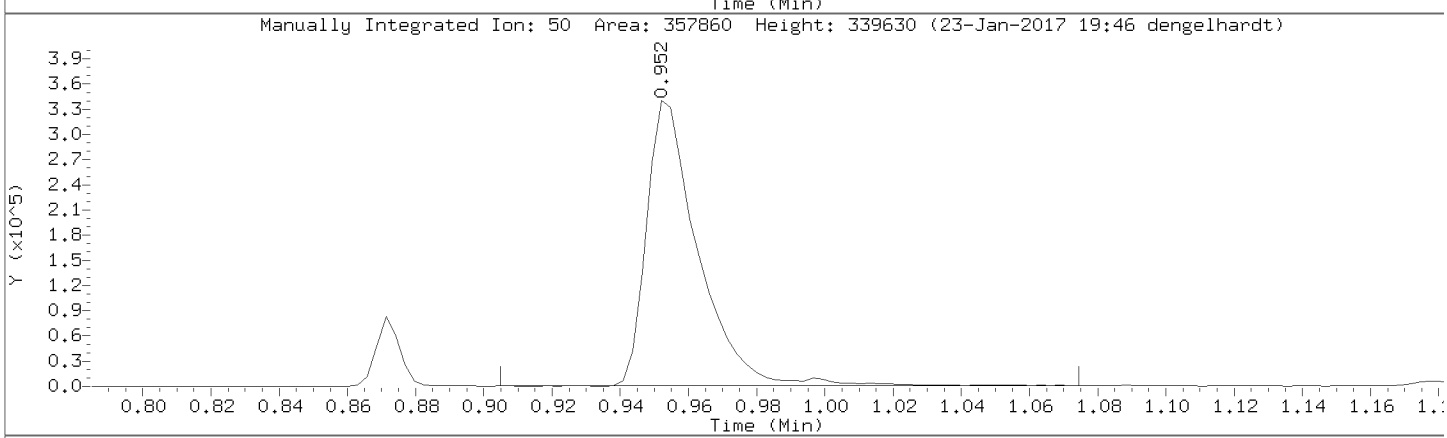
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a07cal7.d
Date : 23-JAN-2017 01:11
Client ID: 8260-CAL7
Instrument: 50mv2a.i
Sample Info: 8260-CAL7,140432:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18

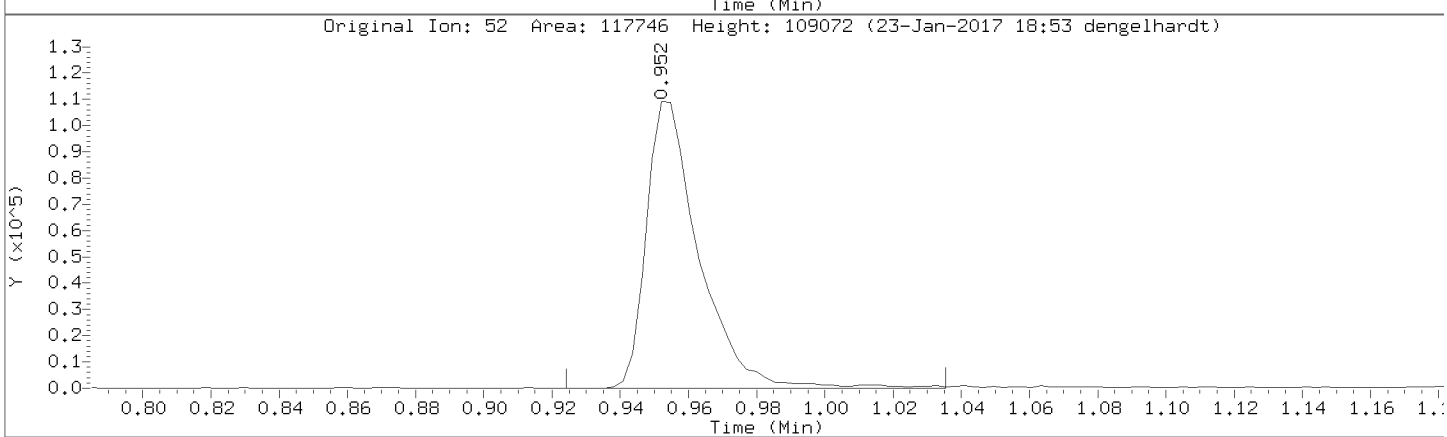


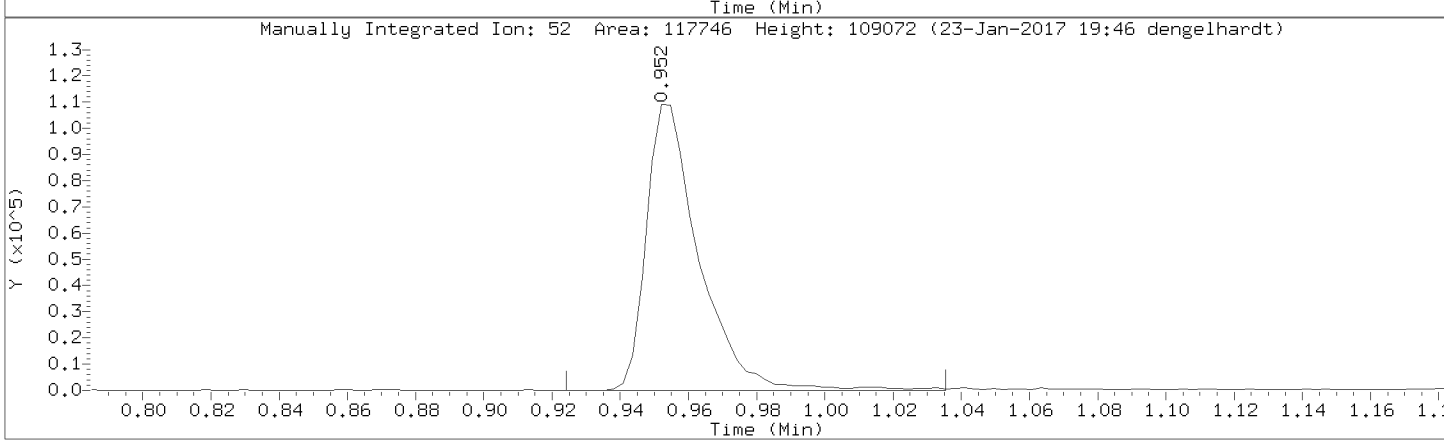
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a07cal7.d
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Chloromethane Review Code: WP
CAS Number: 74-87-3



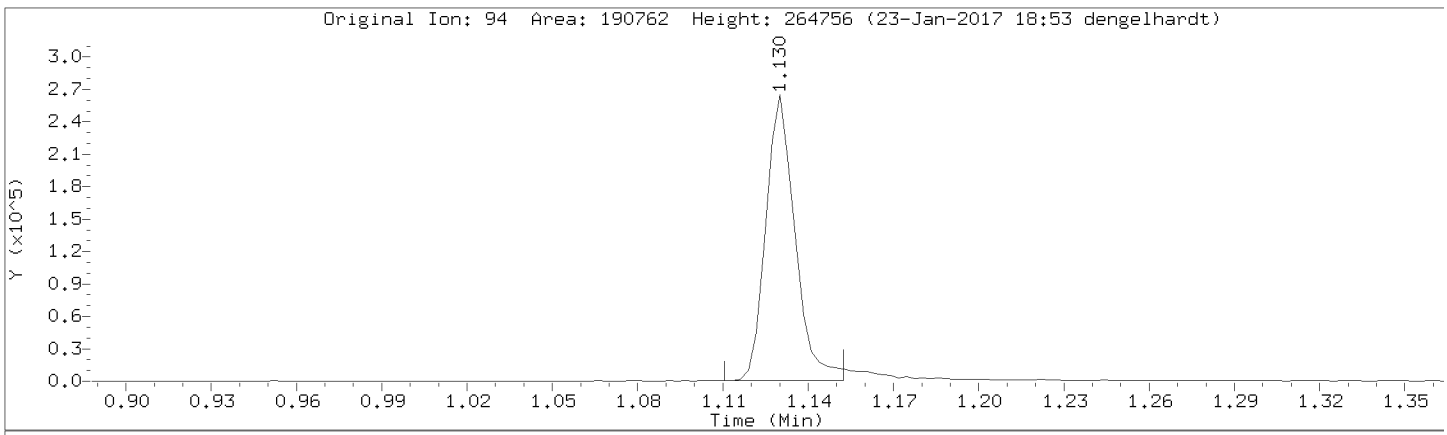


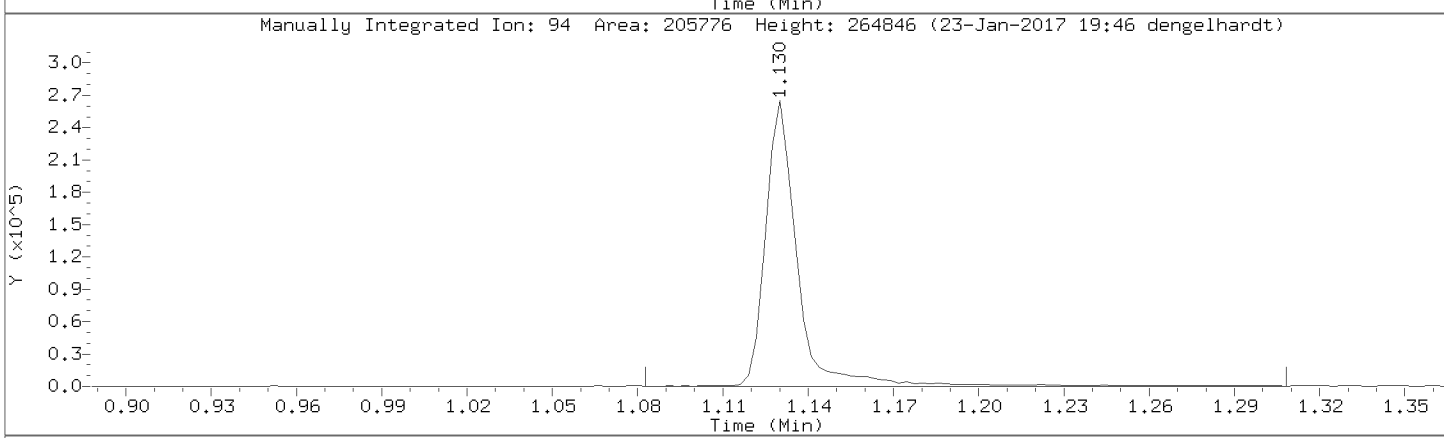


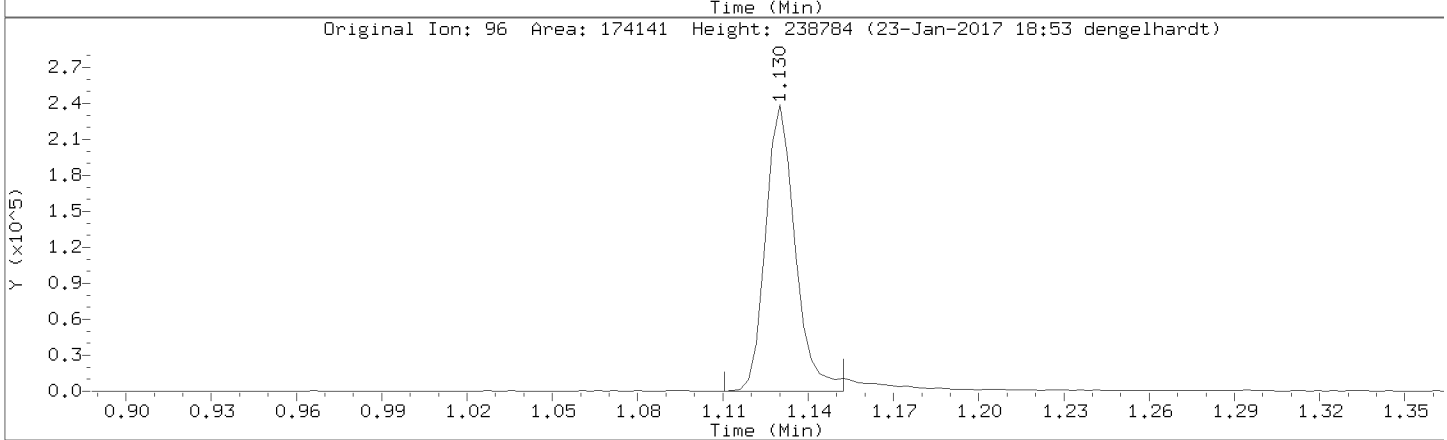


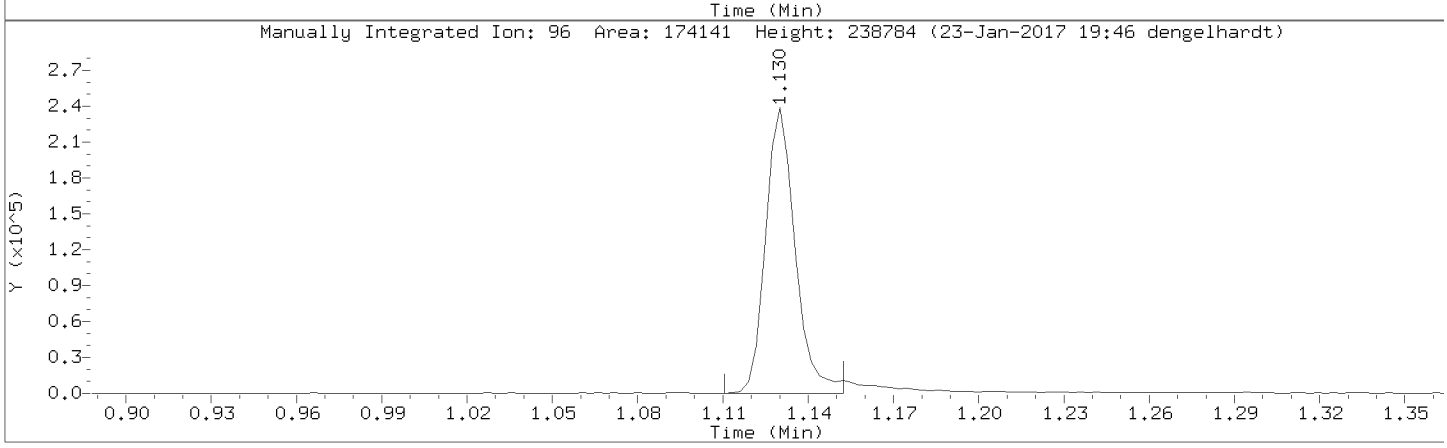
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a07cal7.d
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Bromomethane Review Code: LT
CAS Number: 74-83-9



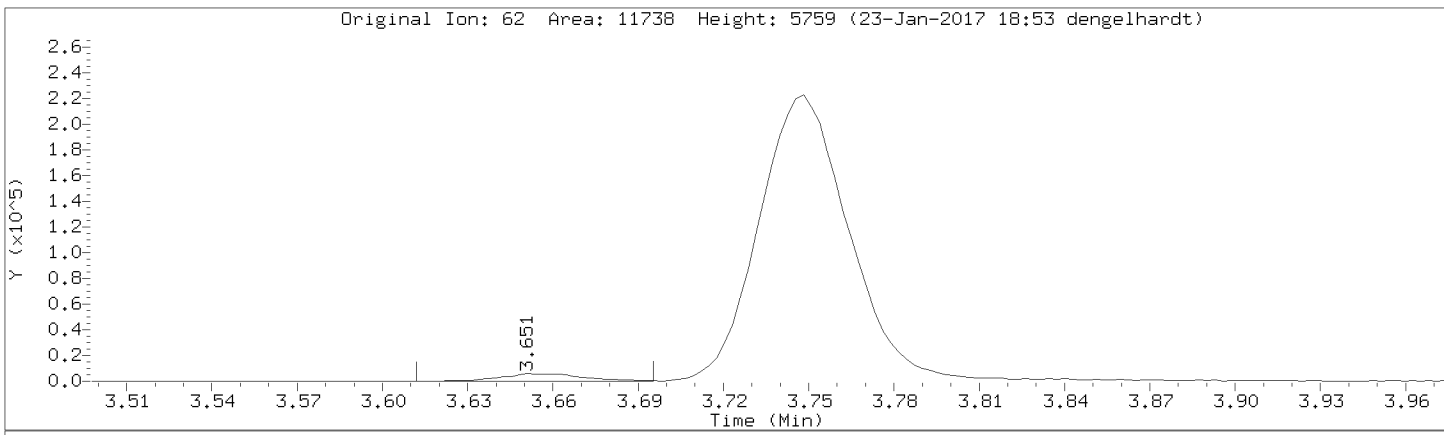


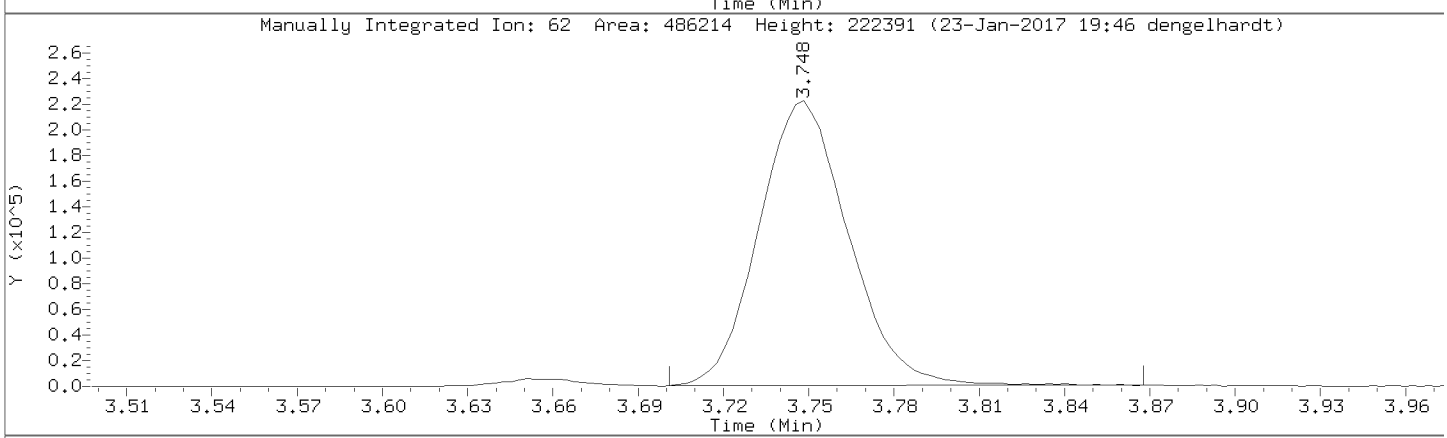


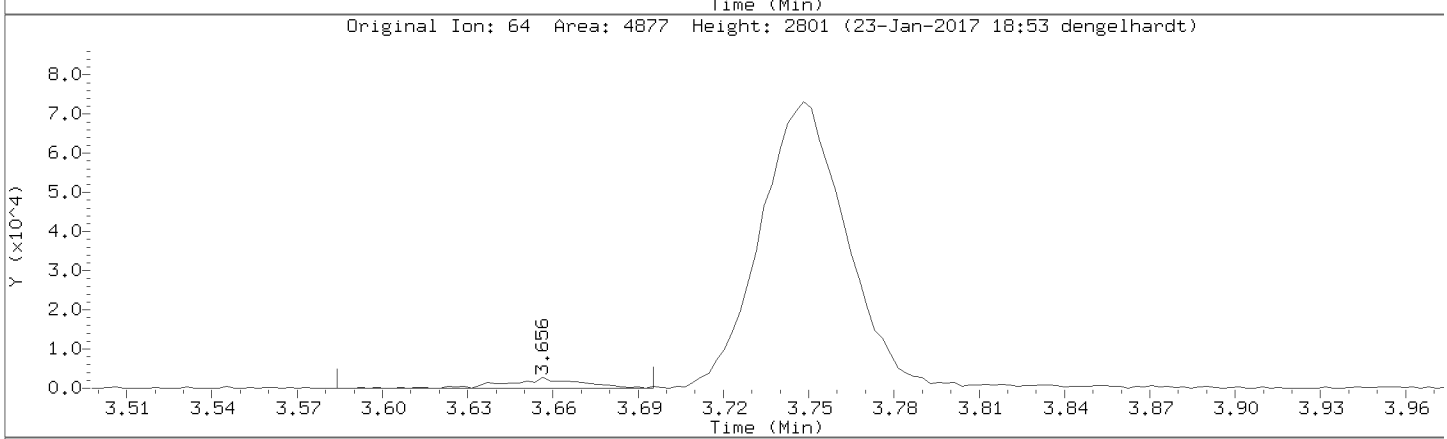


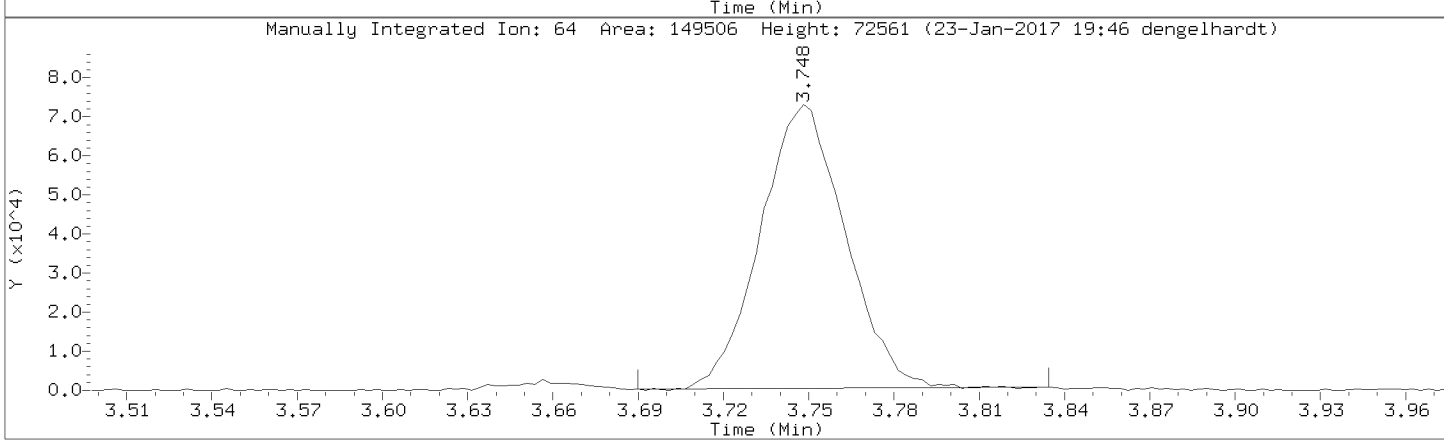
Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a07cal7.d
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: 1,2-Dichloroethane Review Code: WP
CAS Number: 107-06-2









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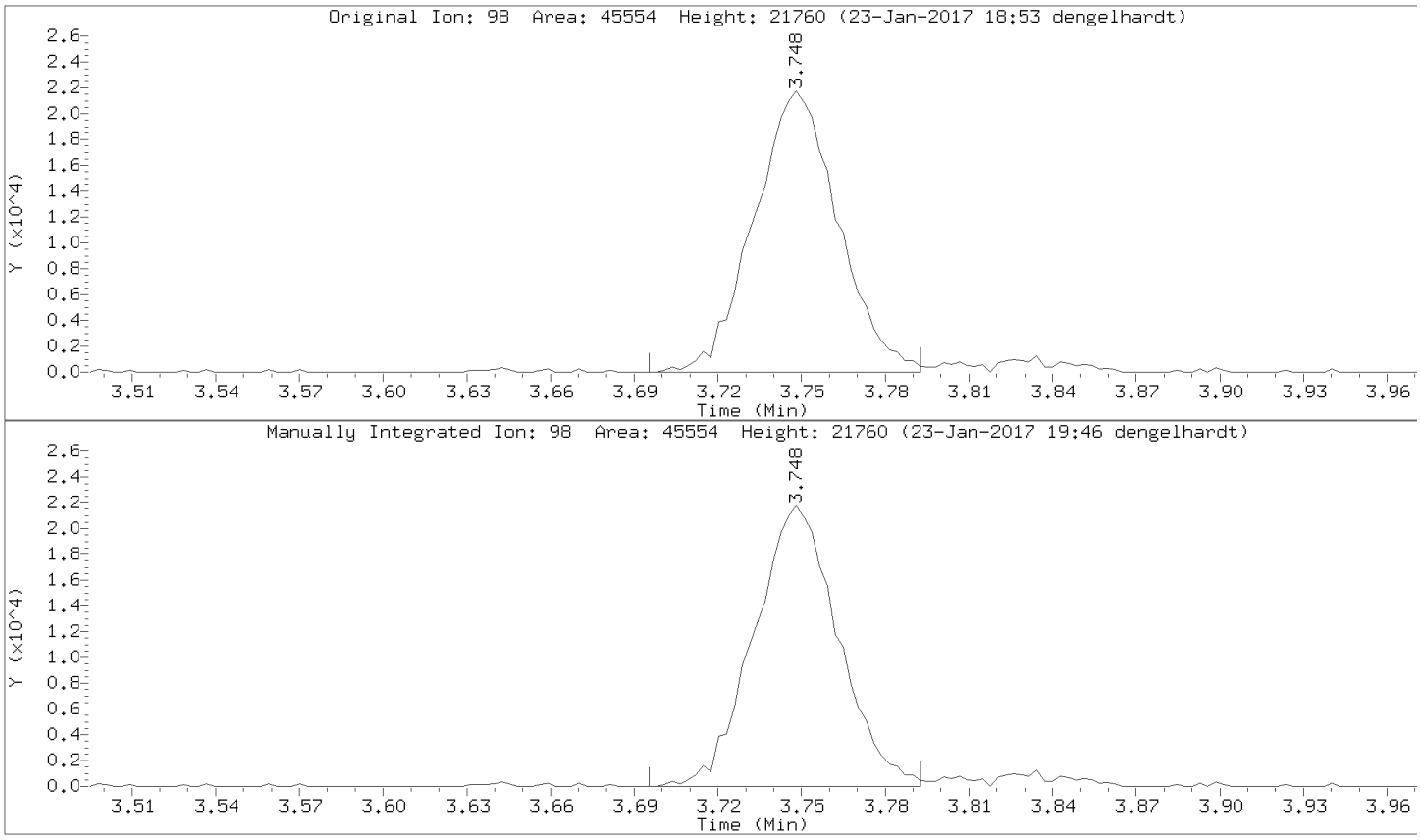
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7



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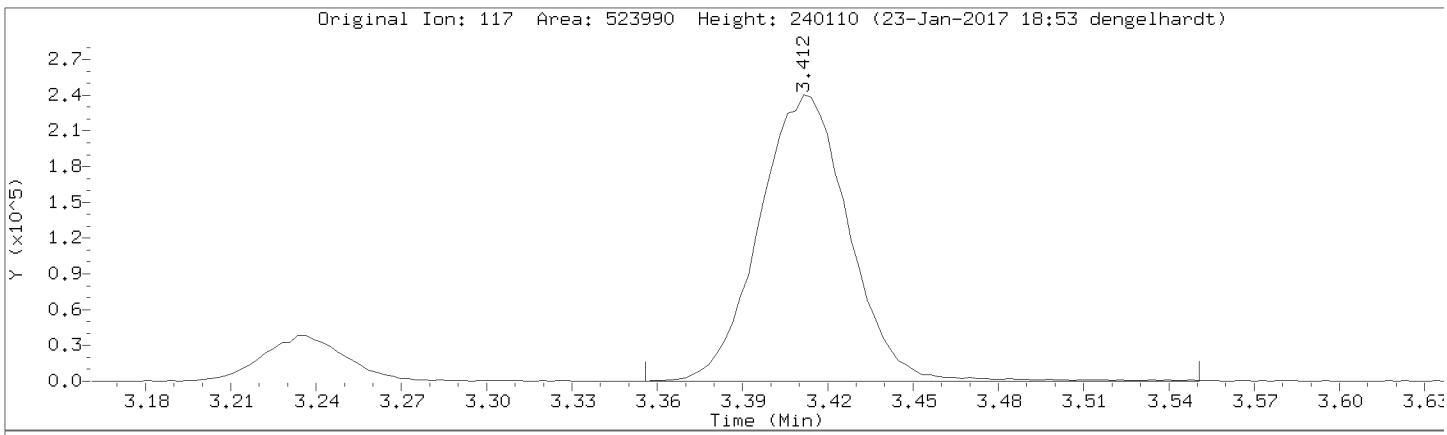
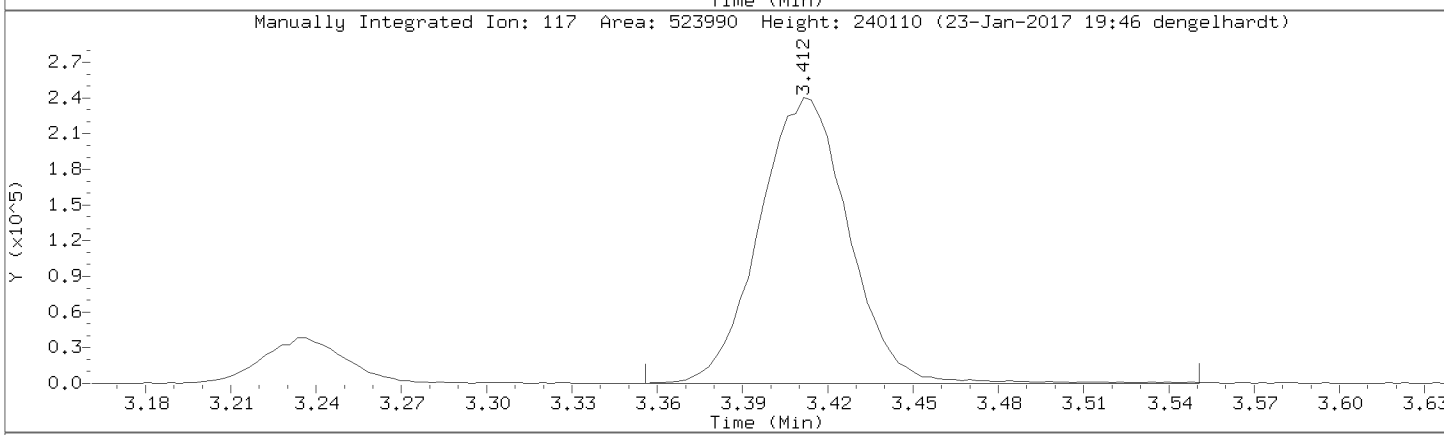
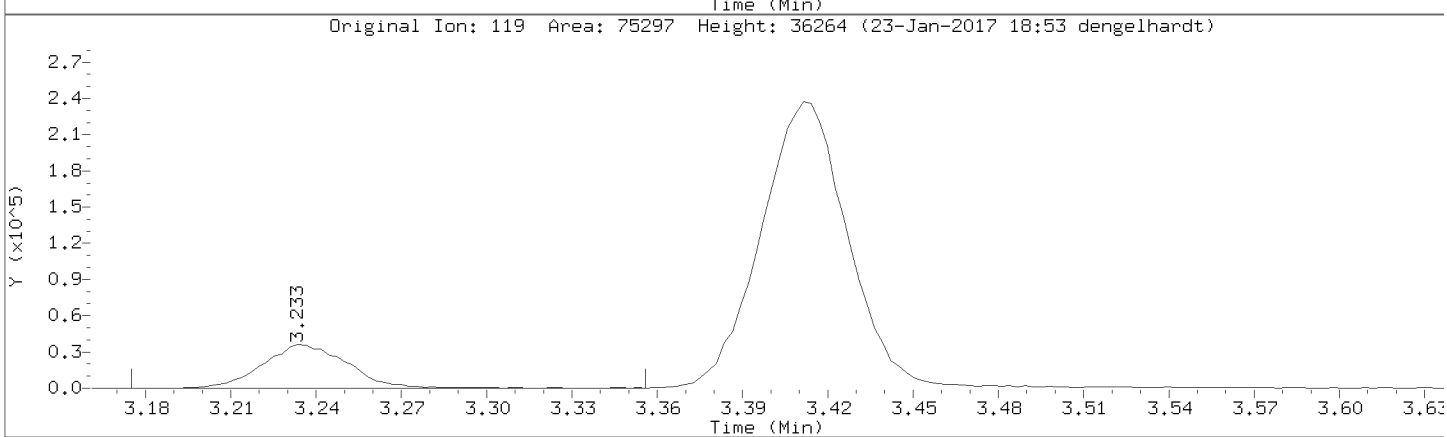
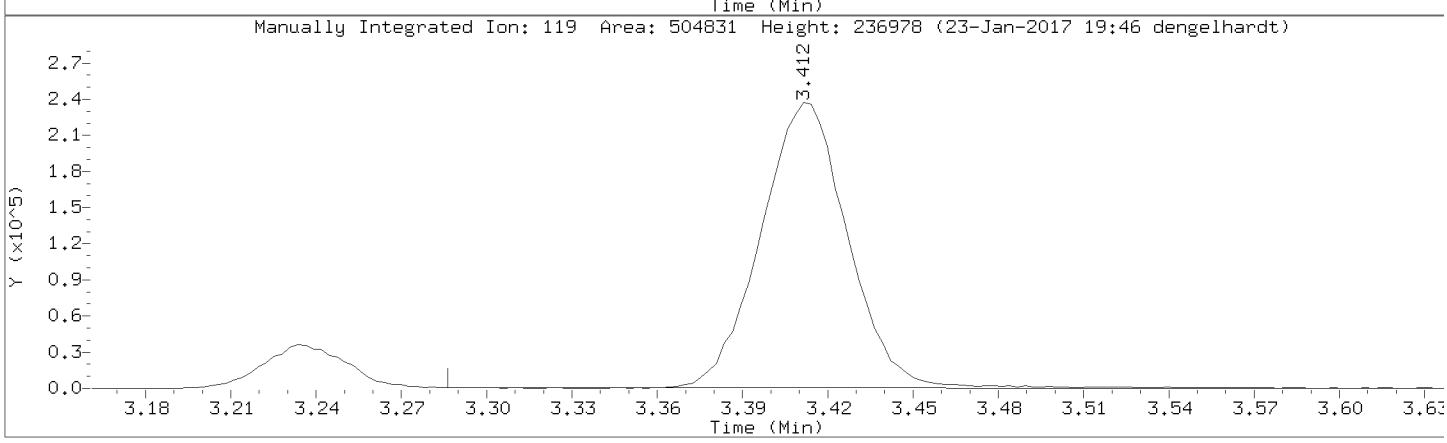
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Carbon Tetrachloride Review Code: WP
CAS Number: 56-23-5









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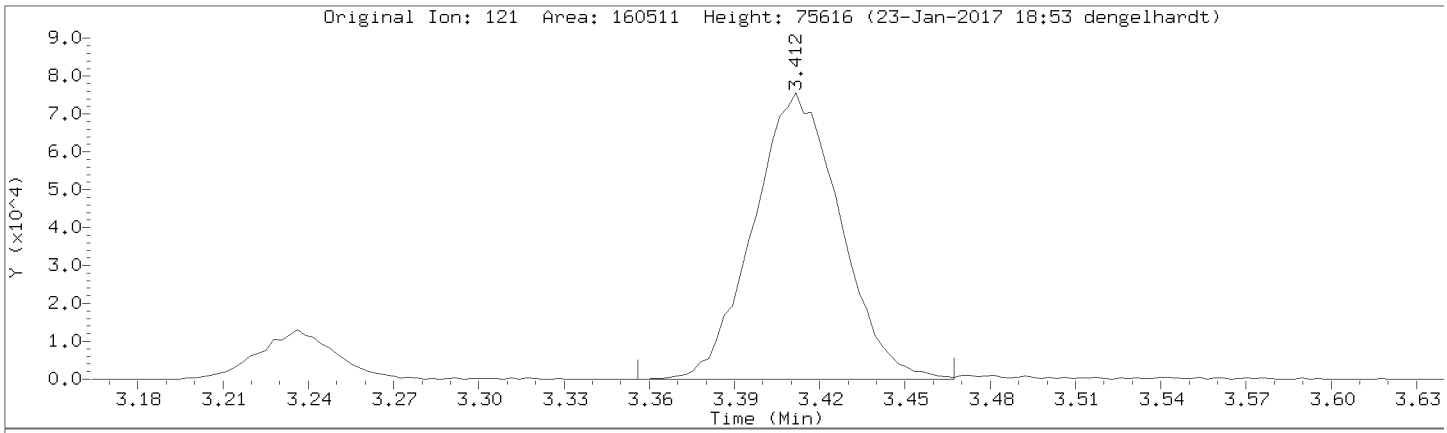
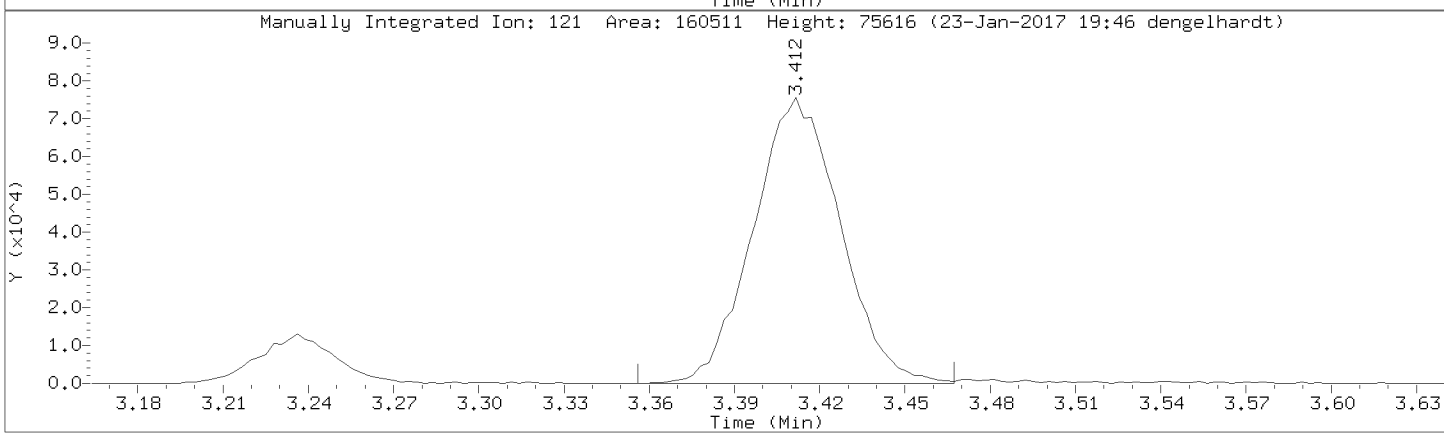
Lab Sample ID: 8260-CAL7





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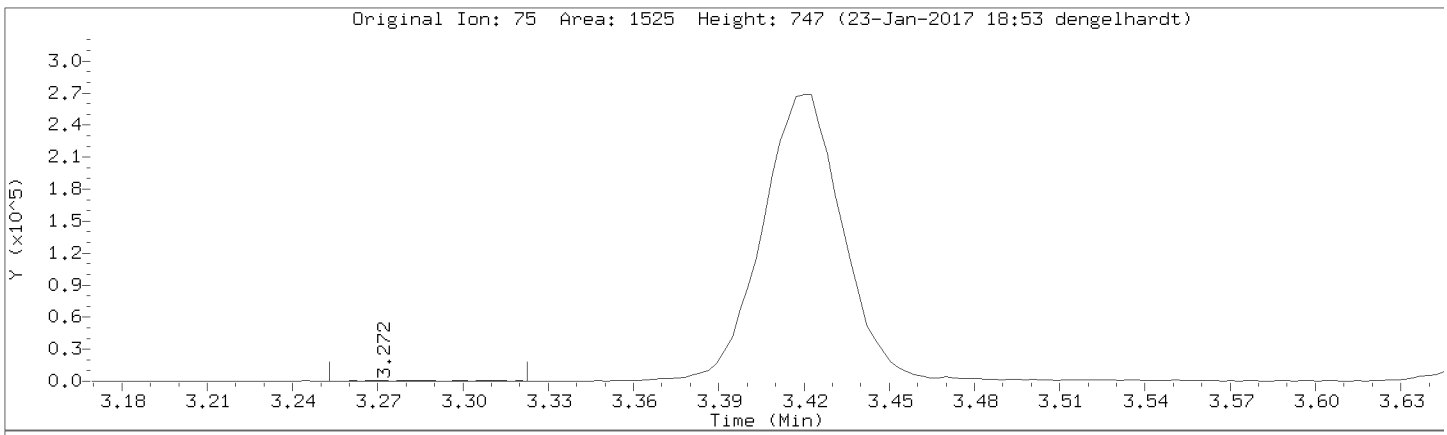
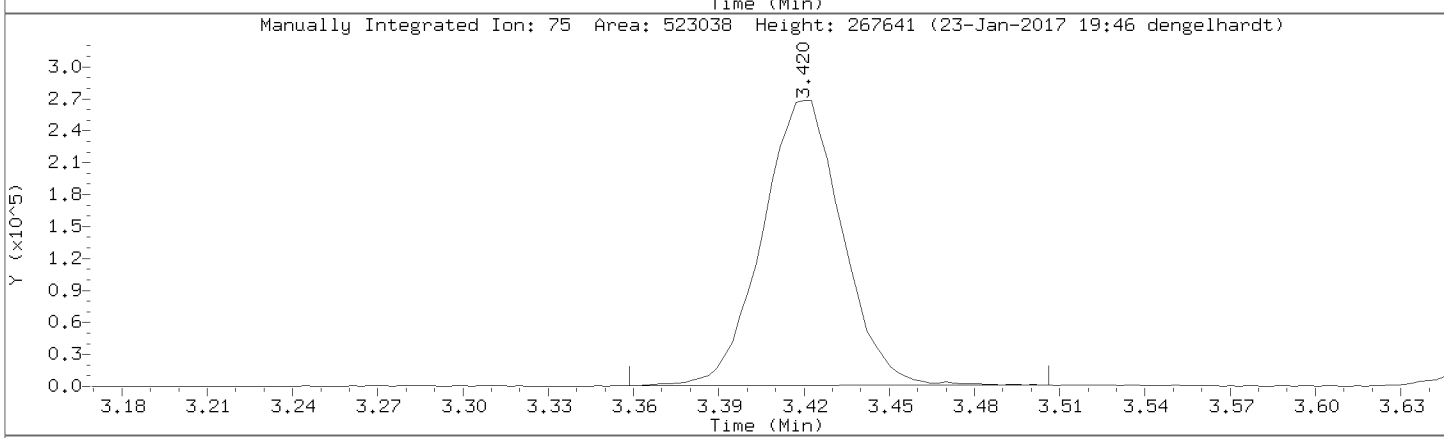
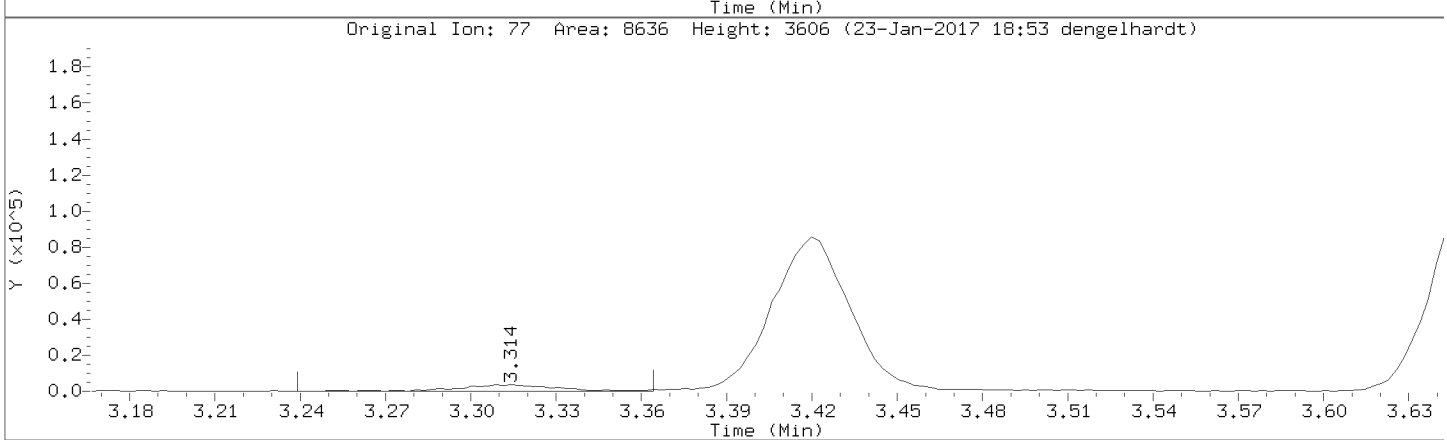
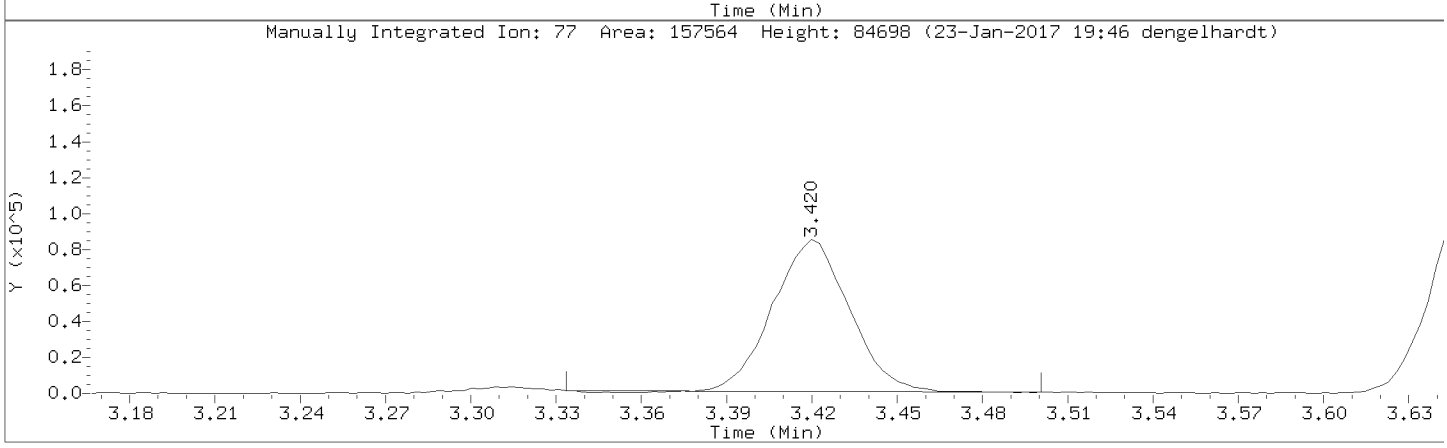
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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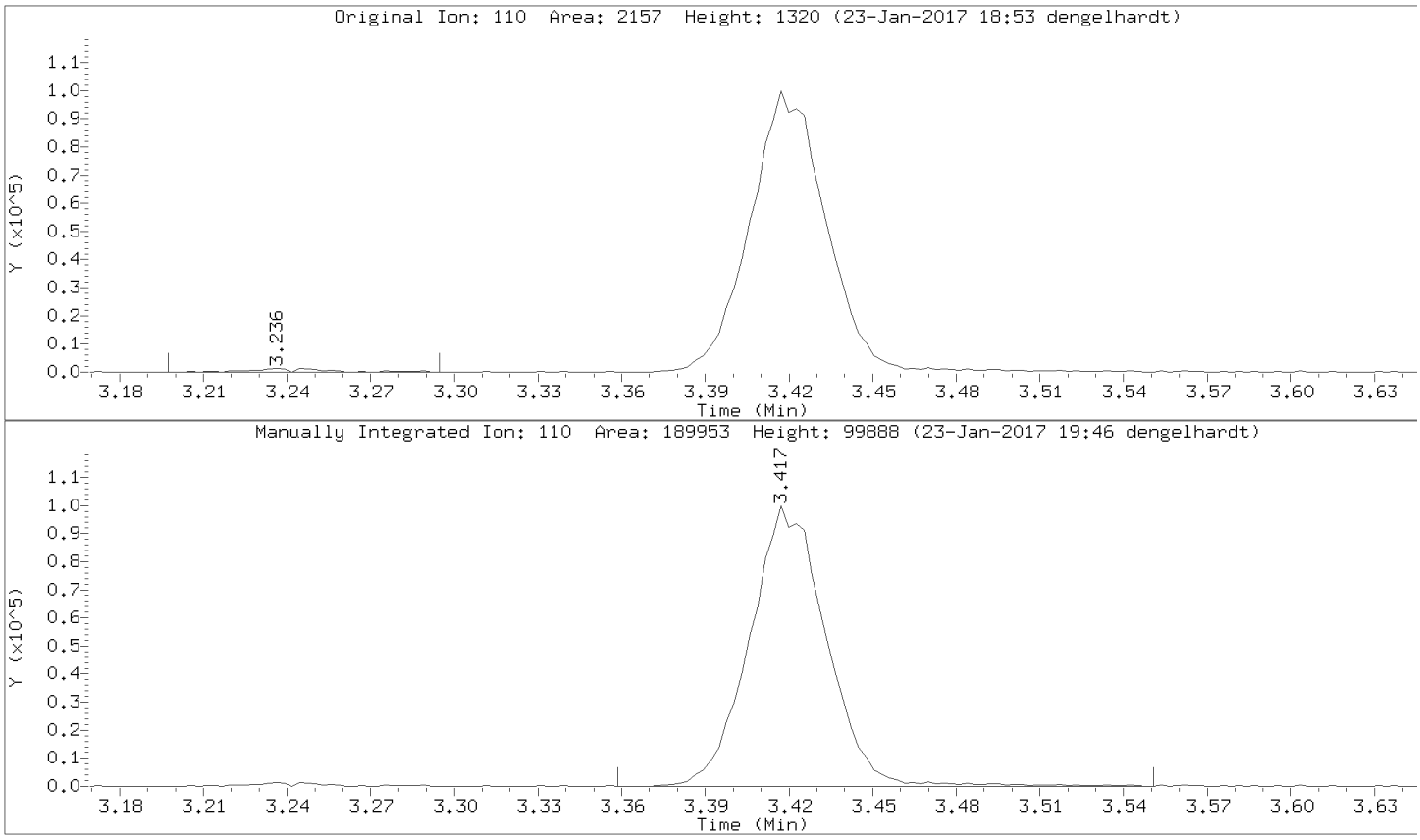
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7



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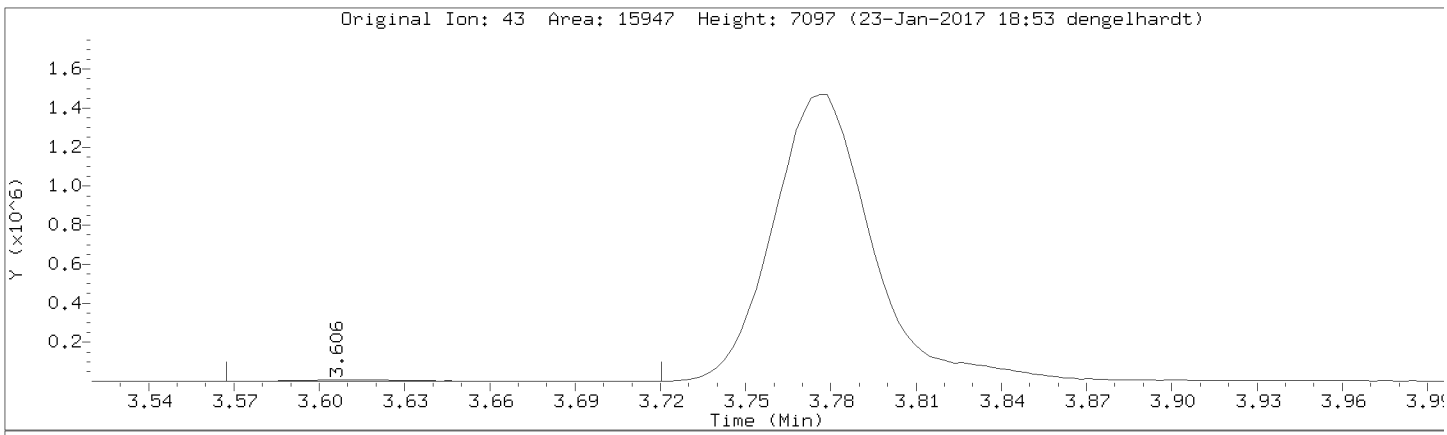
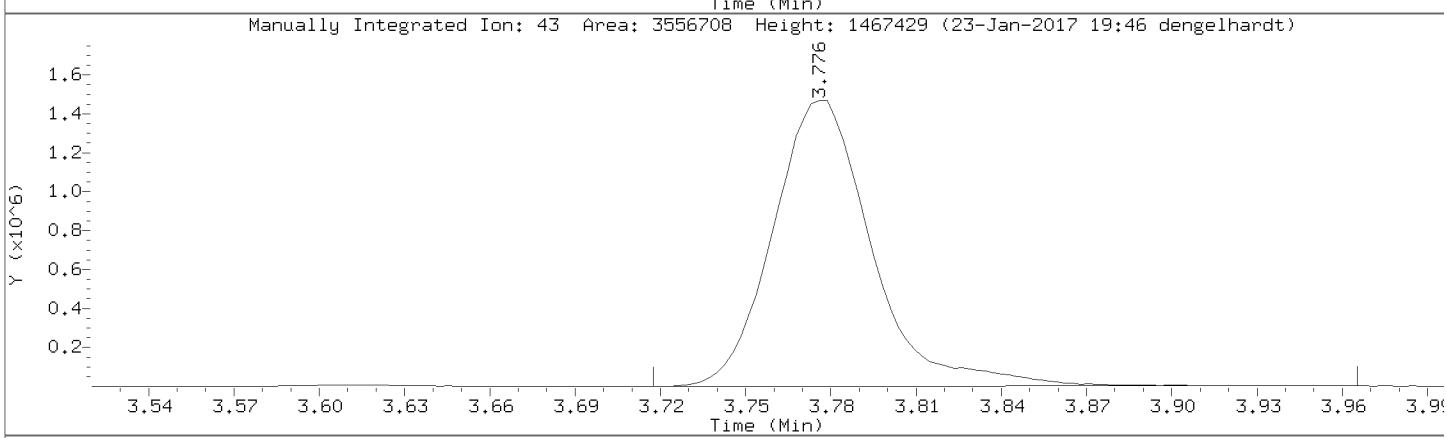
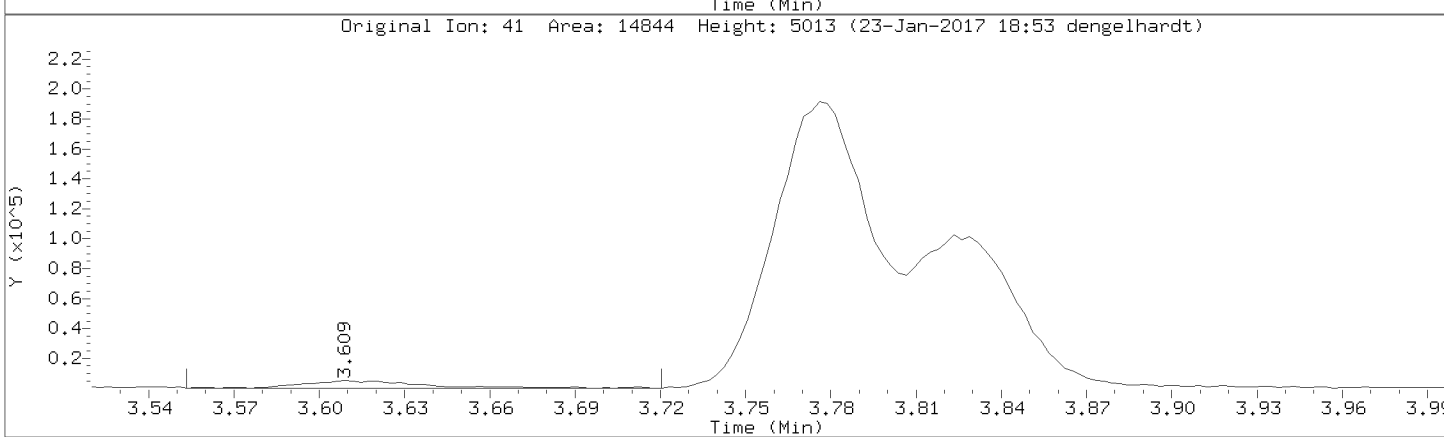
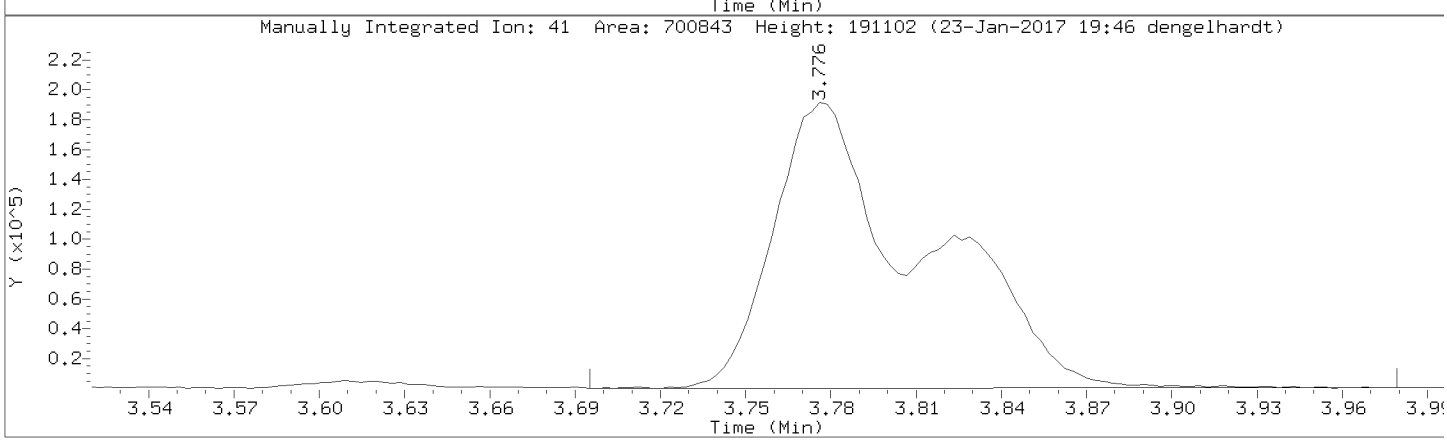
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1









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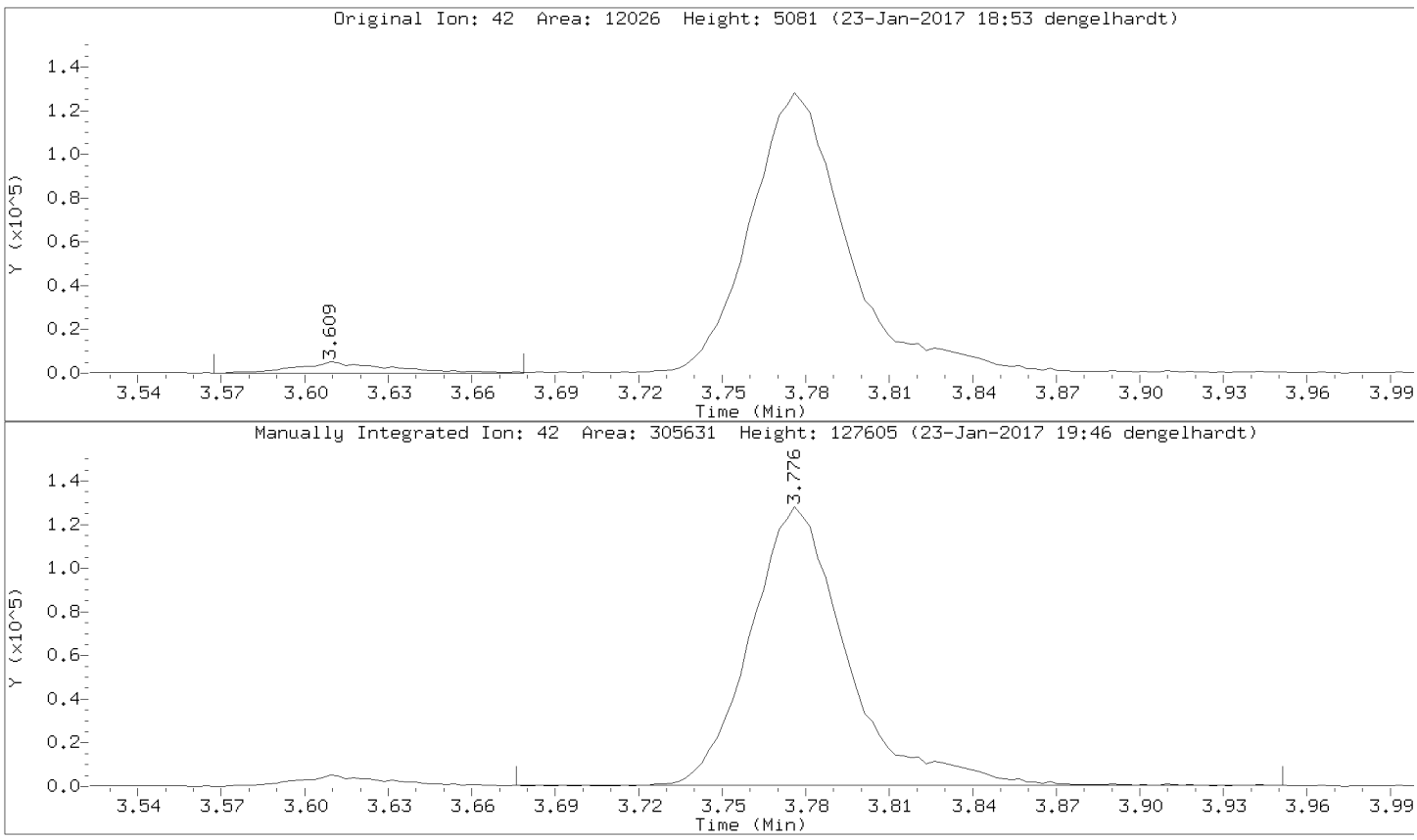
Lab Sample ID: 8260-CAL7



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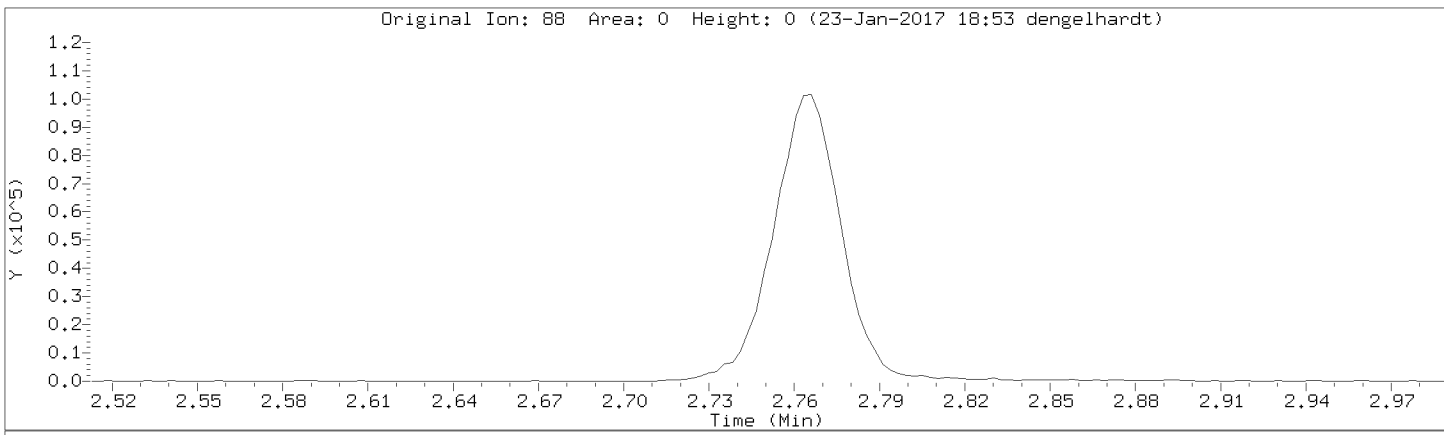
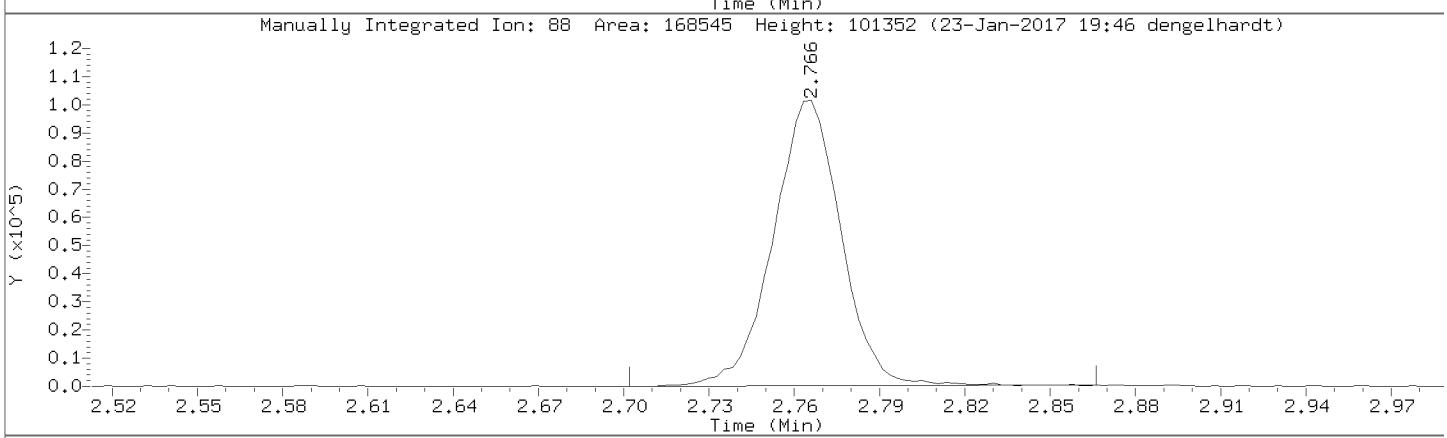
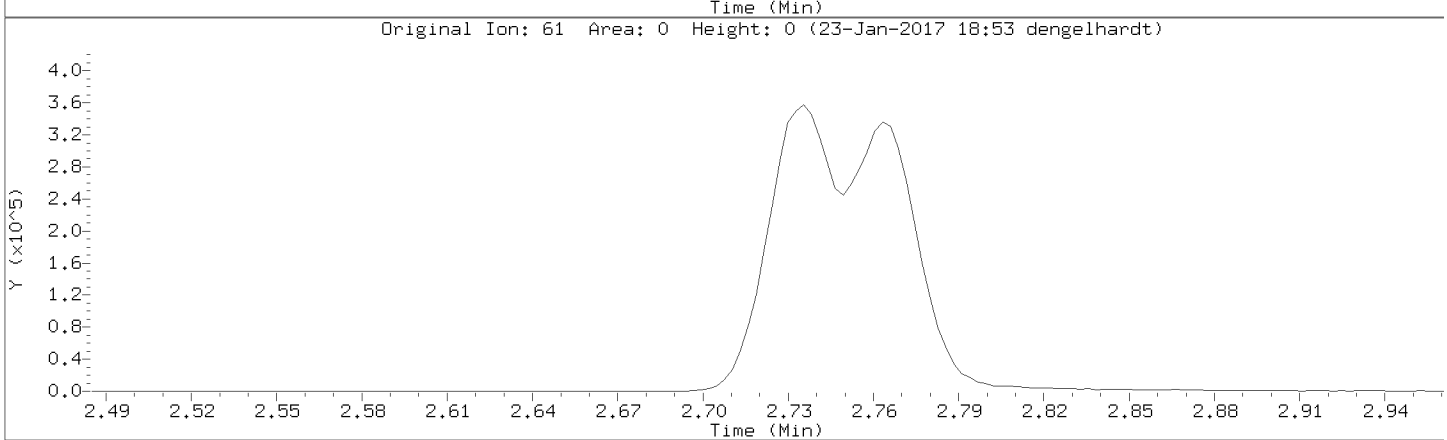
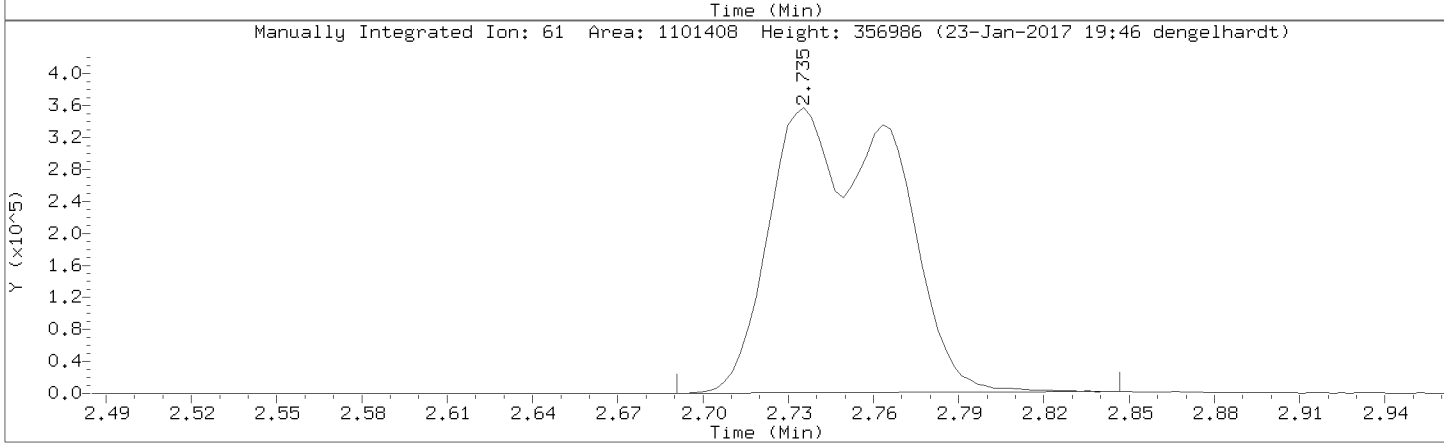
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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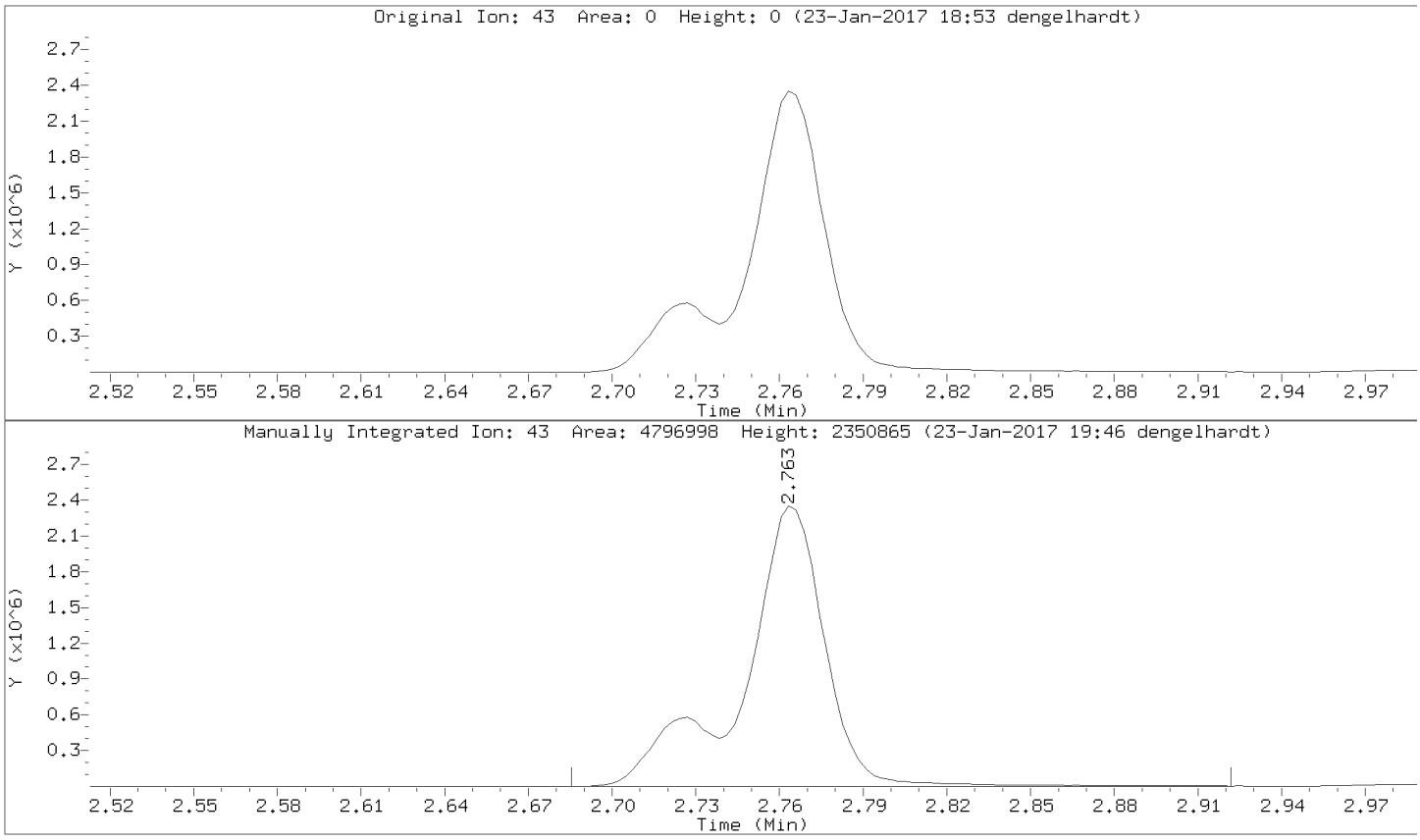
Lab Sample ID: 8260-CAL7



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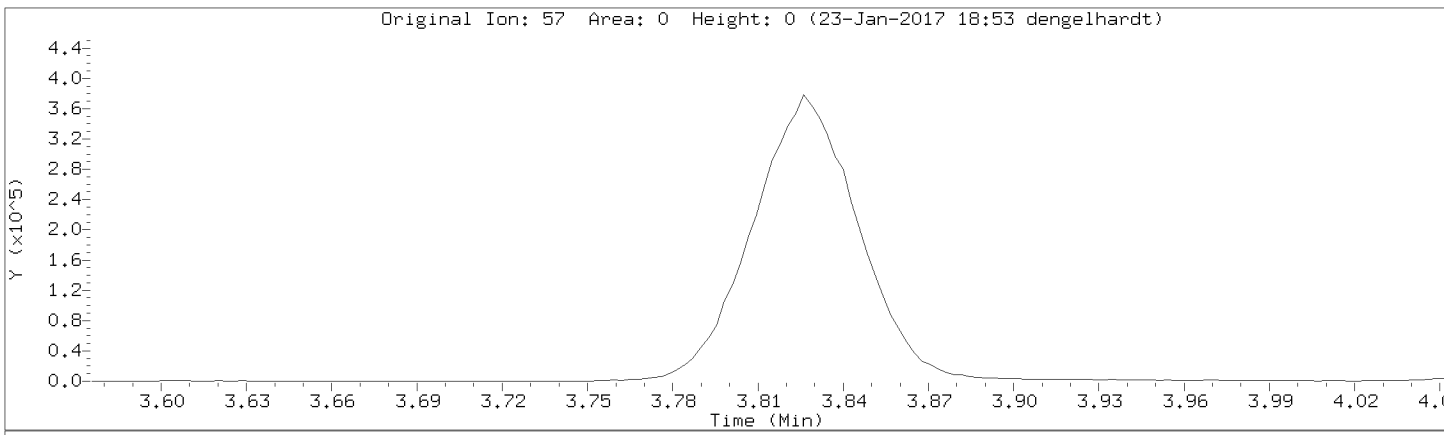
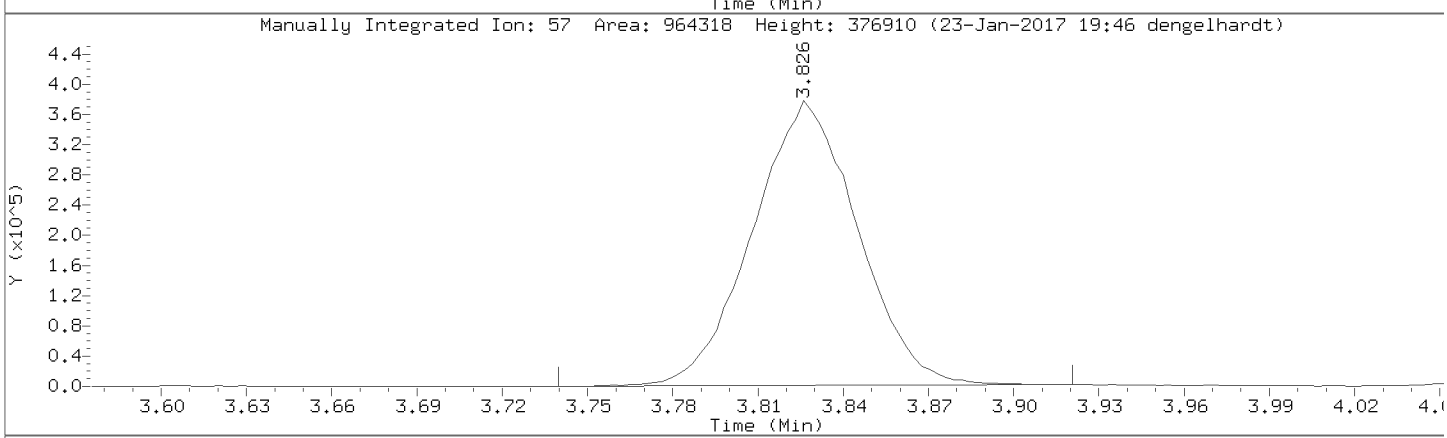
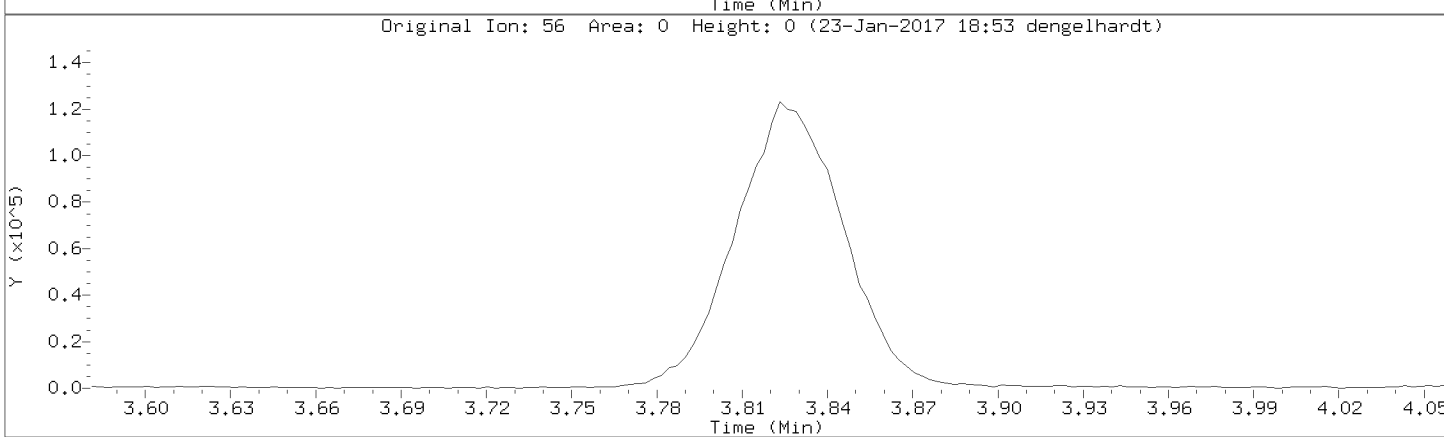
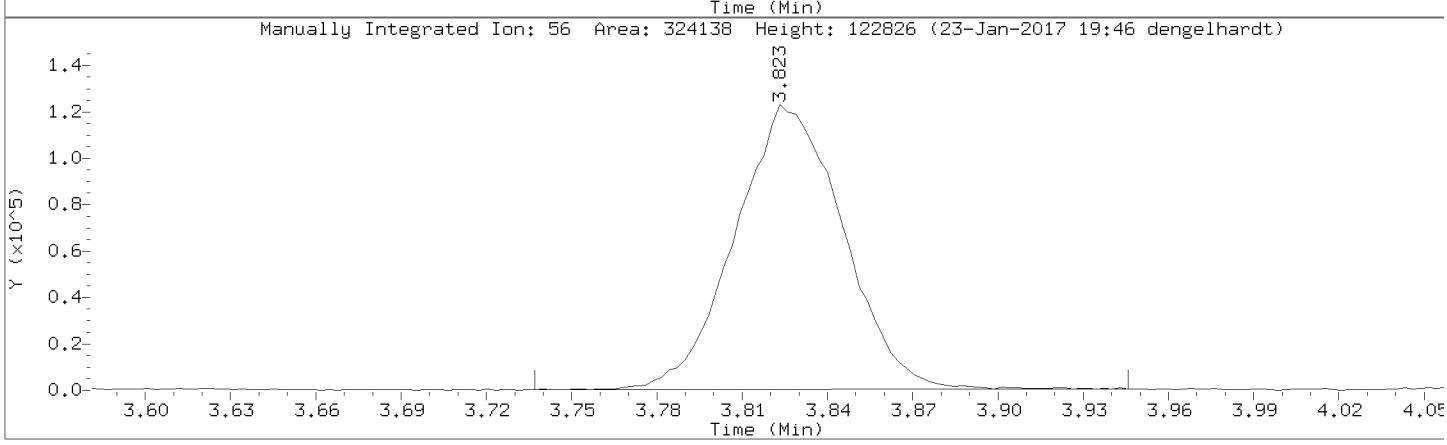
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: 2,2,4-Trimethylpentane Review Code: NI
CAS Number: 540-84-1









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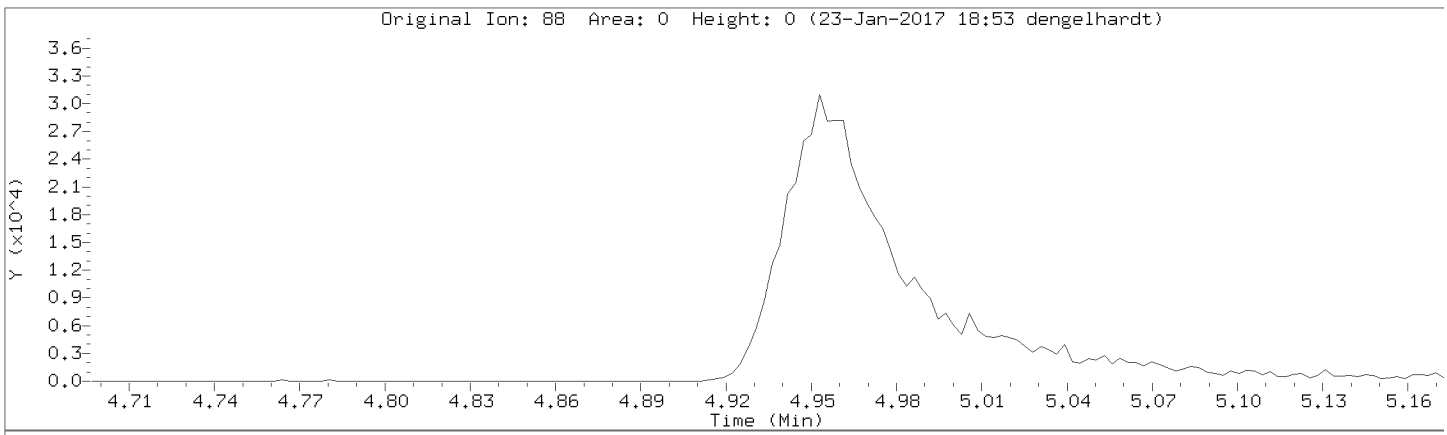
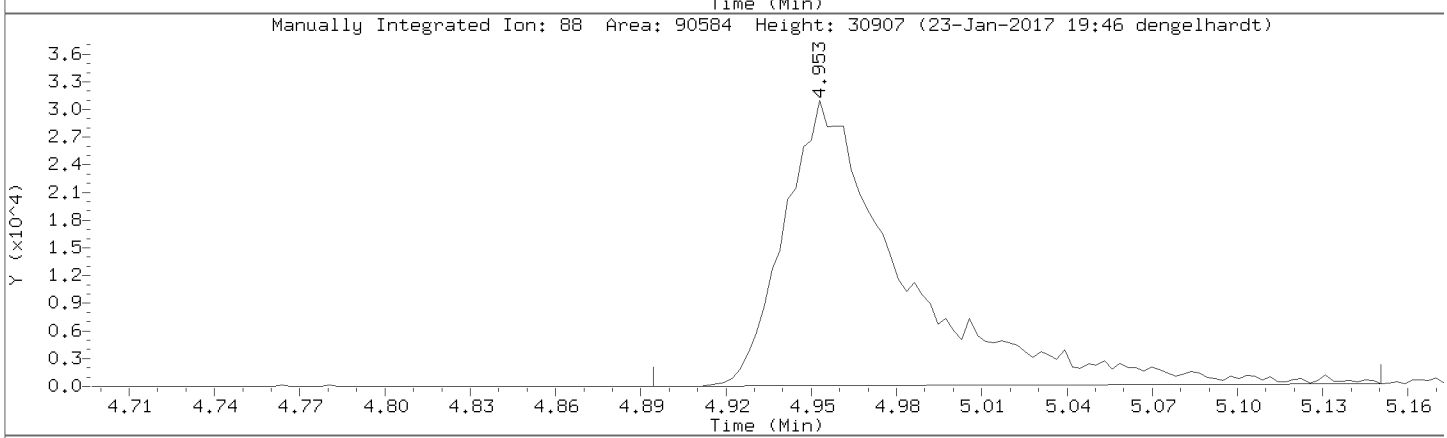
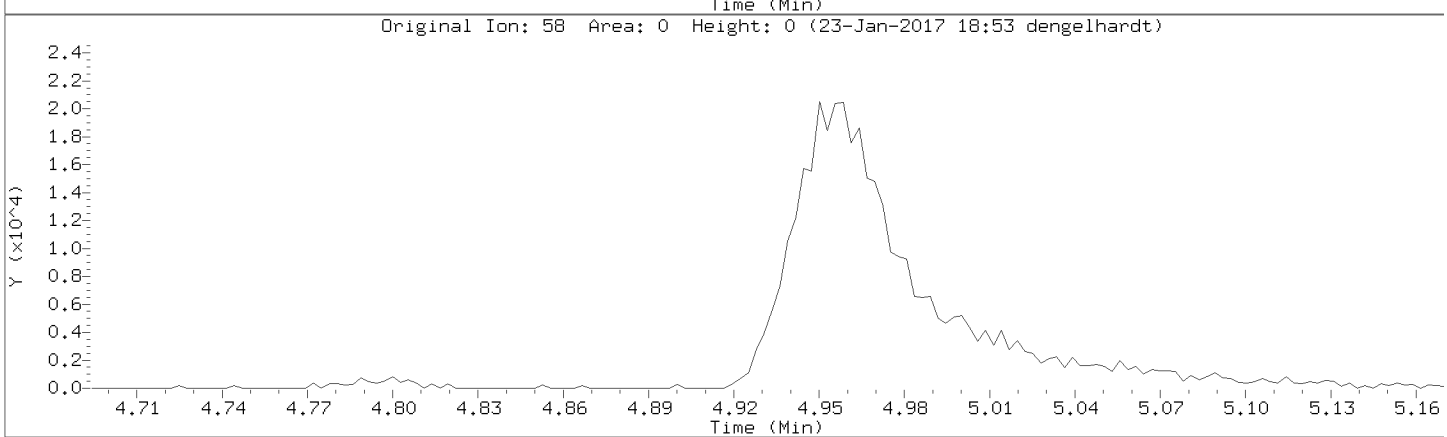
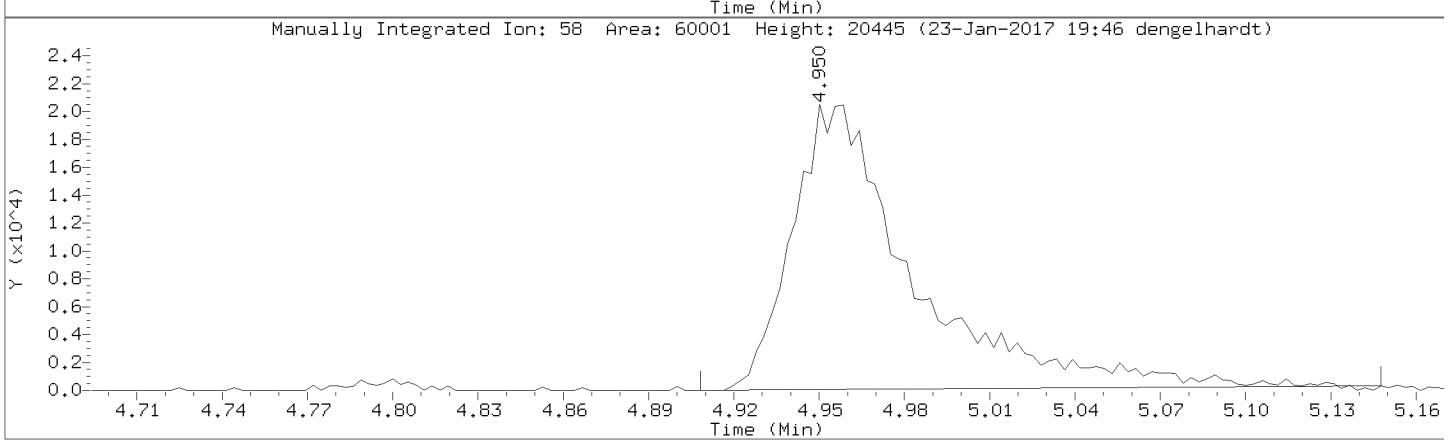
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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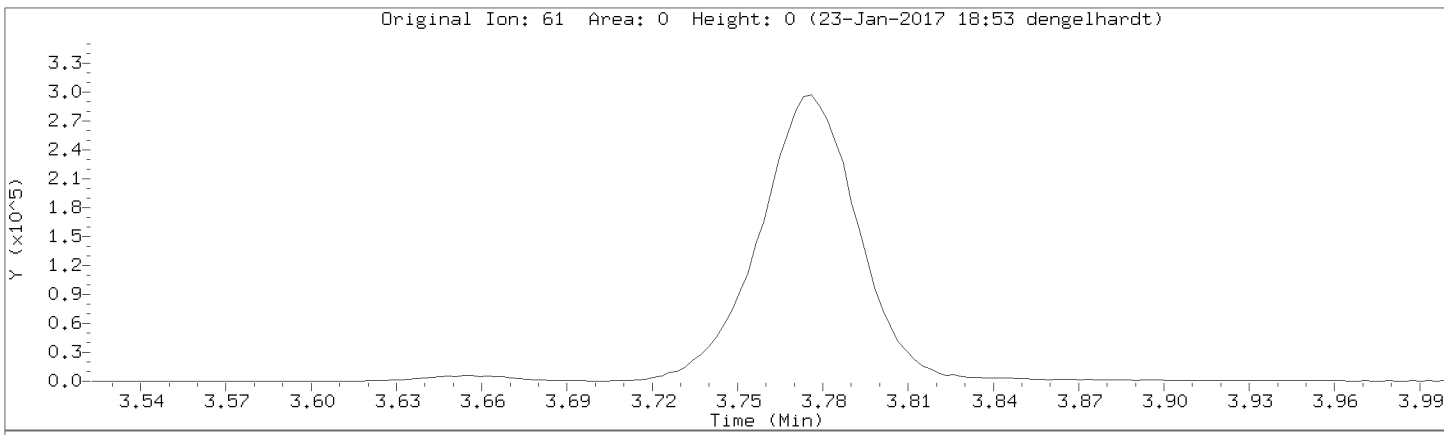
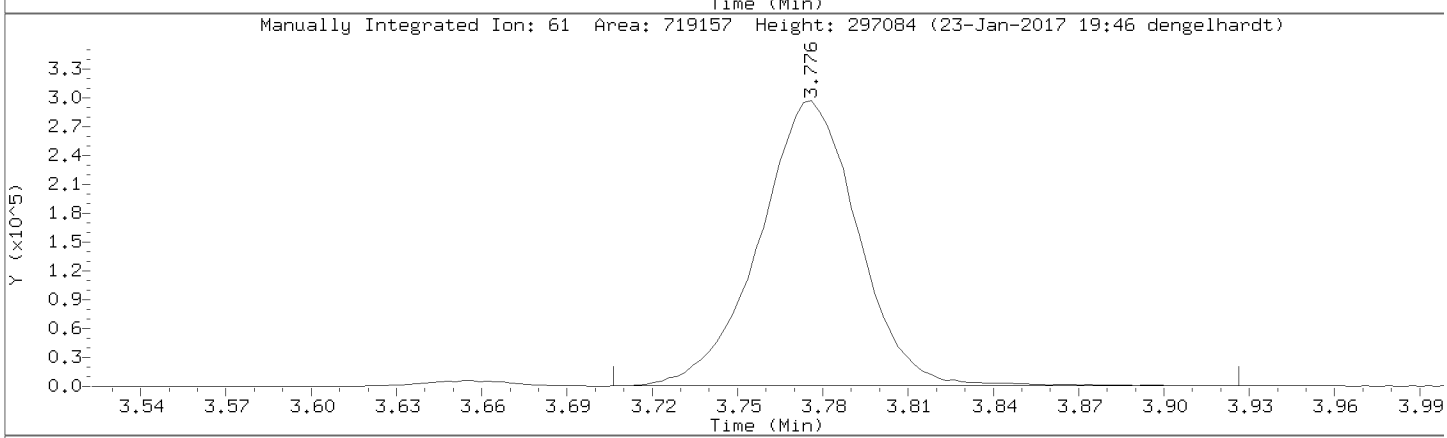
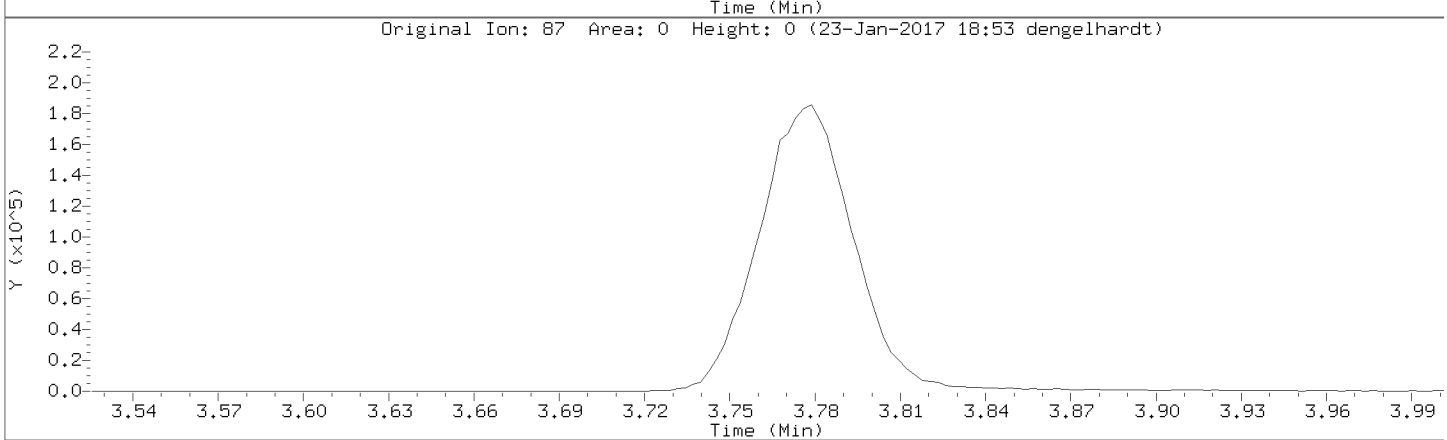
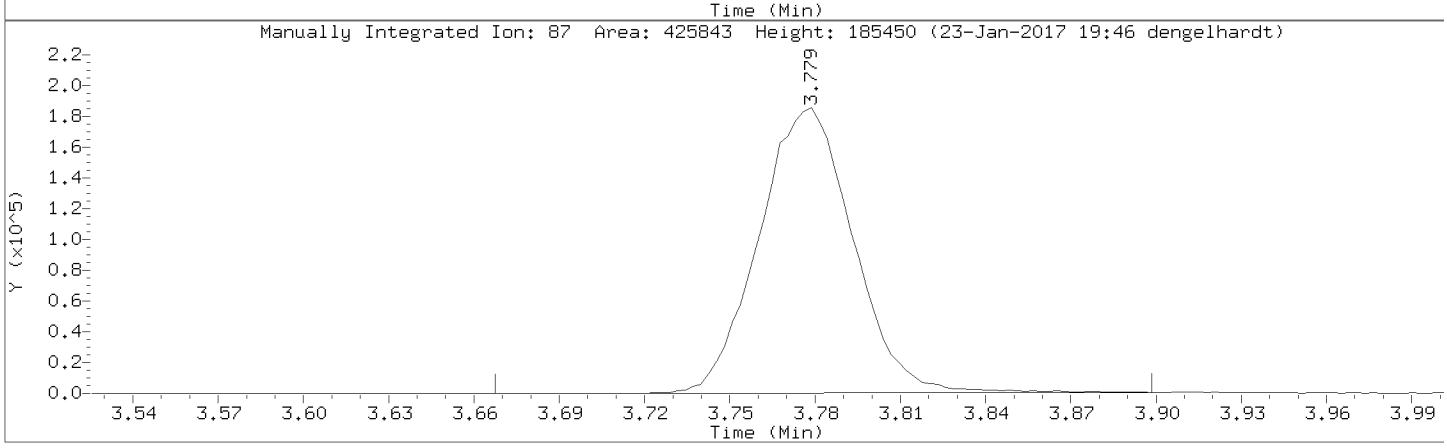
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: isopropyl acetate Review Code: NI
CAS Number: 108-21-4









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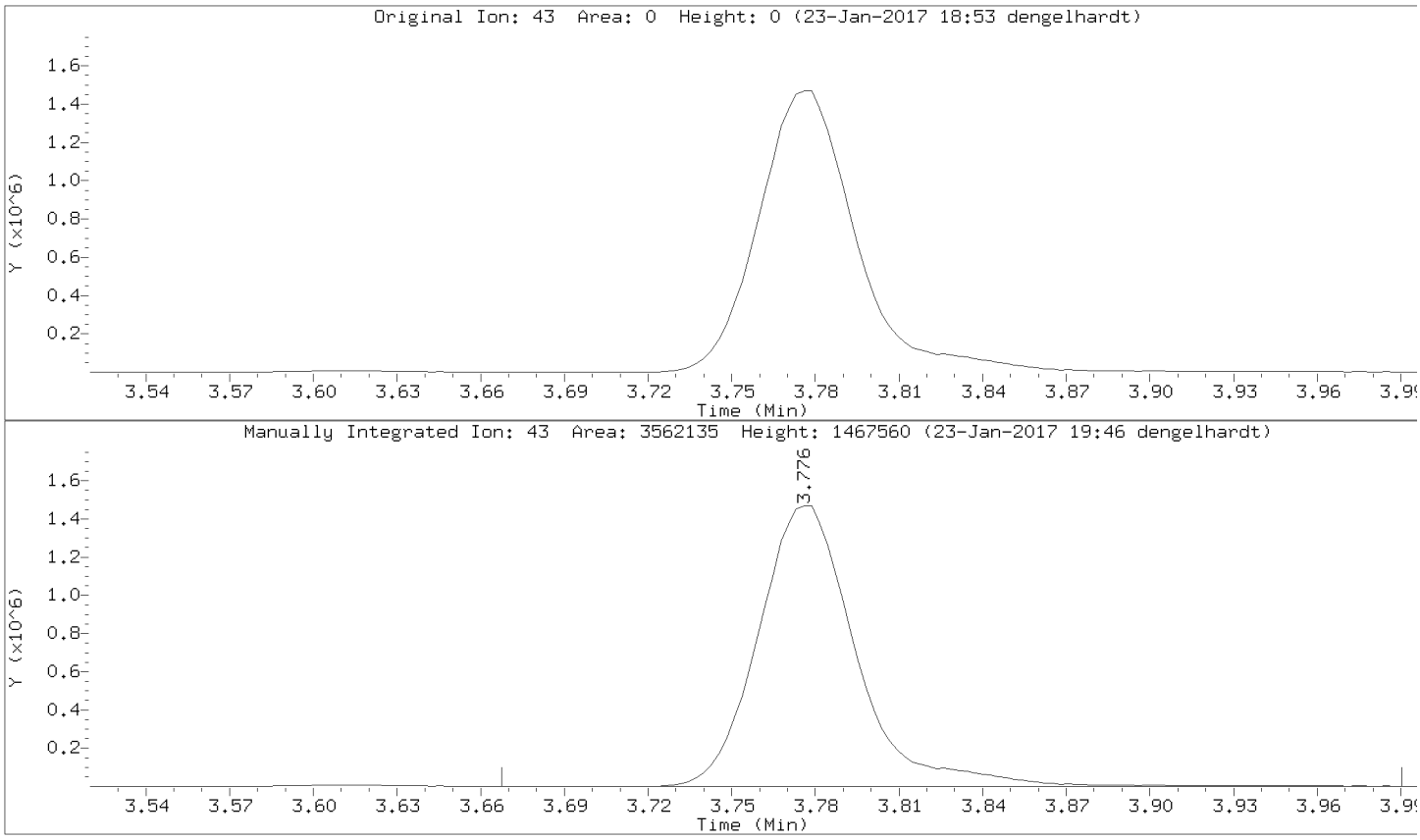
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7



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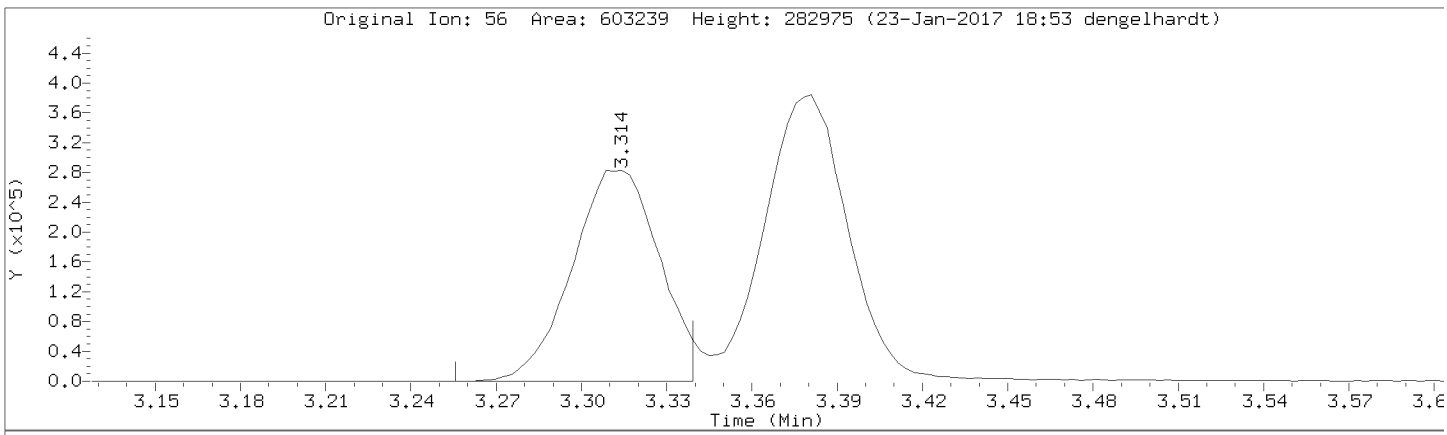
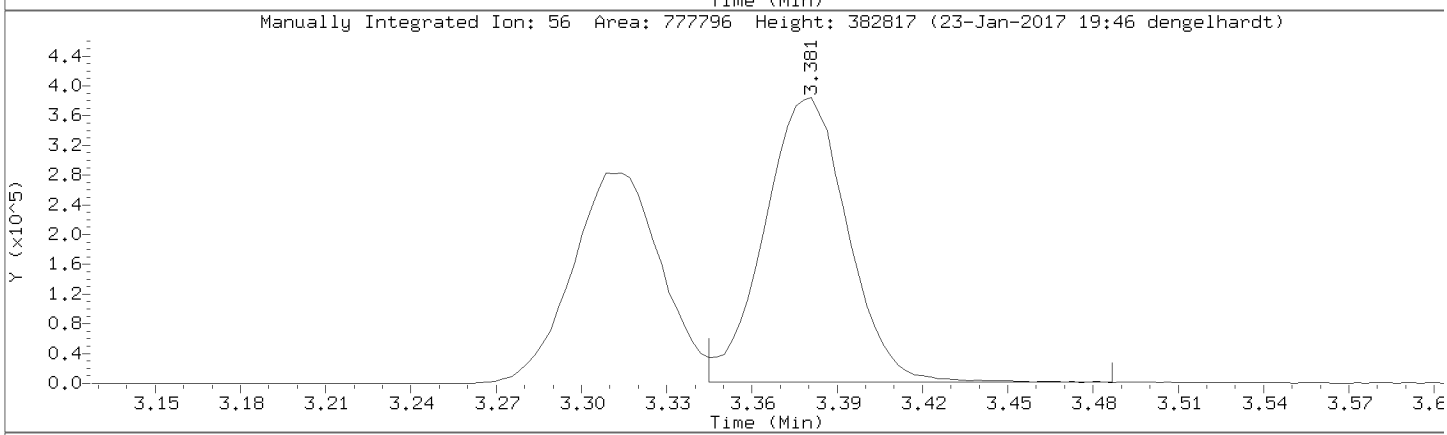
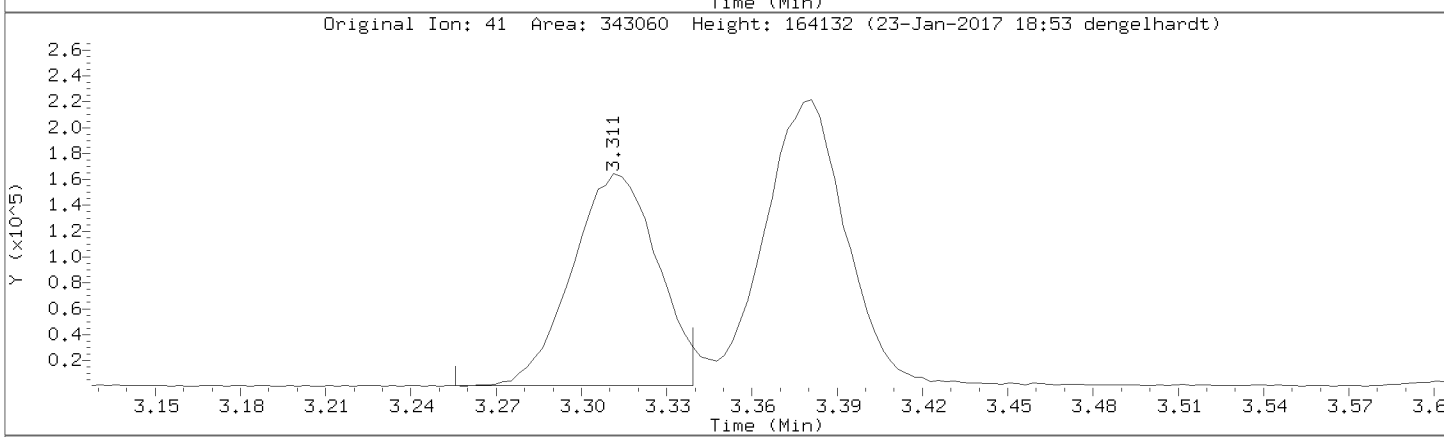
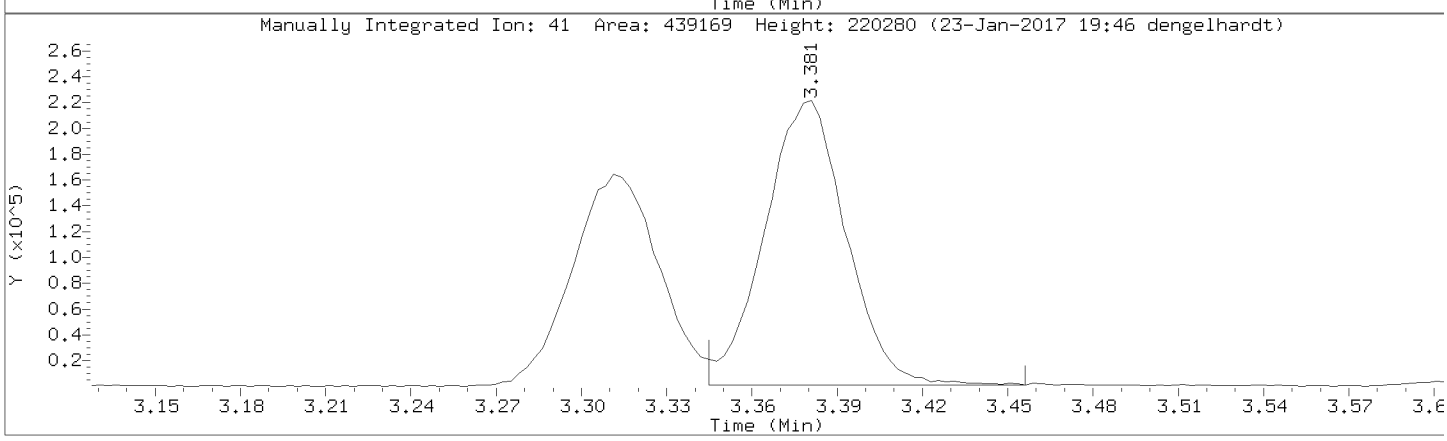
Injection Date: 23-JAN-2017 01:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: n-butyl chloride Review Code: WP
CAS Number: 109-69-3









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Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a08cal8.d
Lab Smp Id: 8260-CAL8 Client Smp ID: 8260-CAL8
Inj Date : 23-JAN-2017 01:44
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-cal8,140433:0
Misc Info : 99071
Comment   :
Method   : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\-a8260_a_c.m
Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 19-JAN-2017 01:58 Cal File: a08cal8.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.871	0.874	(0.214)	664072	300.000	306	
2 Chloromethane	50	0.952	0.952	(0.234)	758437	300.000	309(M)	WP
3 Vinyl Chloride	62	0.996	0.999	(0.245)	960216	300.000	325	
4 Bromomethane	94	1.124	1.138	(0.277)	196625	300.000	94.6	
5 Chloroethane	64	1.171	1.182	(0.288)	475864	300.000	245	
6 Trichlorofluoromethane	101	1.285	1.294	(0.316)	1182169	300.000	323	
7 Diethyl ether	74	1.416	1.416	(0.348)	510355	300.000	286	
8 1,2-dichlorotrifluoroethane	67	1.430	1.433	(0.352)	957726	300.000	259	
9 Acrolein	56	1.488	1.489	(0.366)	2518465	6000.00	6400(M)	NI
10 1,1,2trichlorotrifluoroethane	101	1.530	1.539	(0.377)	803612	300.000	287	
11 1,1-Dichloroethene	96	1.536	1.541	(0.378)	685931	300.000	255	
12 Acetone	43	1.558	1.555	(0.383)	1283714	1500.00	1250	
13 Iodomethane	142	1.622	1.628	(0.399)	1925190	600.000	749	
14 Carbon Disulfide	76	1.667	1.672	(0.410)	2095034	300.000	296	
15 Methyl Acetate	43	1.719	1.719	(0.423)	885611	300.000	252	
16 Acetonitrile	39	1.731	1.733	(0.426)	1499145	300.000	242	
17 allyl chloride	41	1.731	1.733	(0.426)	2222087	600.000	514	
18 Methylene Chloride	84	1.803	1.806	(0.444)	680319	300.000	232	
19 tert-Butyl Alcohol	59	1.878	1.853	(0.462)	170072	600.000	353	
20 Acrylonitrile	53	1.945	1.942	(0.478)	1351331	1200.00	1010	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	2506188	300.000	306	
22 1,2-Dichloroethene (trans)	96	1.970	1.973	(0.485)	727951	300.000	271	
23 n-Hexane	57	2.142	2.148	(0.527)	1051024	300.000	279	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.265	2.262	(0.557)	7424686	1200.00	1400	
25 1,1-Dichloroethane	63	2.270	2.270	(0.559)	1306319	300.000	293	
26 Chloroprene	53	2.320	2.323	(0.571)	1129118	300.000	285	
27 Ethyl acetate	88	2.768	2.763	(0.681)	328305	2400.00	2110(M)	NI
28 2-Butanone	72	2.729	2.724	(0.671)	504569	1500.00	1320(Q)	
29 1,2-Dichloroethene (cis)	96	2.735	2.735	(0.673)	776642	300.000	260	
30 2,2-Dichloropropane	77	2.735	2.738	(0.673)	1096046	300.000	266	
31 Propionitrile	54	2.791	2.782	(0.687)	130412	300.000	266(M)	WP
32 Methacrylonitrile	41	2.927	2.927	(0.720)	524428	300.000	241	
33 Bromochloromethane	49	2.963	2.963	(0.729)	522098	300.000	247	
34 Tetrahydrofuran	42	2.985	2.983	(0.734)	231190	300.000	198(QM)	WP
35 Chloroform	83	3.069	3.069	(0.755)	1213071	300.000	287	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.797)	95839	50.0000	50.5	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.796)	1152396	300.000	273	
38 cyclohexane	56	3.308	3.314	(0.814)	1238035	300.000	257	
150 n-butyl chloride	56	3.378	3.378	(0.831)	1507775	300.000	258(M)	WP
39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	1042231	300.000	285(M)	WP
40 1,1-Dichloropropene	75	3.417	3.419	(0.841)	1035392	300.000	290(M)	WP
41 Benzene	78	3.656	3.659	(0.899)	2812911	300.000	276	
42 1,2-Dichloroethane	62	3.745	3.748	(0.921)	955511	300.000	273(M)	WP
43 2,2,4-Trimethylpentane	57	3.826	3.826	(0.941)	1967351	300.000	278(M)	WP
44 Isobutyl alcohol	43	3.781	3.770	(0.930)	6893900	300.000	295(M)	WP
* 45 Fluorobenzene	96	4.065	4.068	(1.000)	376598	50.0000		
46 isopropyl acetate	61	3.781	3.773	(0.930)	1366491	1200.00	1090(M)	NI
47 Trichloroethene	95	4.527	4.527	(1.114)	710937	300.000	261	
48 Methylcyclohexane	55	4.794	4.794	(1.179)	876319	300.000	271	
49 1,2-Dichloropropane	63	4.841	4.847	(1.191)	696478	300.000	272	
50 1,4-Dioxane	88	4.958	4.947	(1.220)	174818	6000.00	5820(M)	NI
51 Dibromomethane	93	4.944	4.938	(1.216)	443769	300.000	279	
52 Methyl methacrylate	69	4.964	4.961	(1.221)	585414	300.000	271(M)	WP
53 Bromodichloromethane	83	5.172	5.172	(1.272)	876958	300.000	269	
54 2-Chloroethyl vinyl ether	63	5.534	5.531	(0.751)	1043779	600.000	567	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	1133689	300.000	286	
56 4-Methyl-2-Pentanone	43	5.857	5.854	(0.795)	3708195	1500.00	1370	
$ 57 Toluene-d8	98	5.948	5.948	(0.807)	362828	50.0000	51.4	
58 Toluene	91	6.024	6.024	(0.818)	2921810	300.000	269(M)	NI
59 trans-1,3-Dichloropropene	75	6.318	6.316	(0.858)	1019899	300.000	284	
60 Ethyl Methacrylate	69	6.408	6.405	(0.870)	998801	300.000	275	
61 1,1,2-Trichloroethane	83	6.516	6.513	(0.884)	498104	300.000	268	
62 Tetrachloroethene	166	6.563	6.561	(0.891)	842104	300.000	268	
63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	1052238	300.000	274	
64 2-Hexanone	43	6.744	6.739	(0.915)	2536125	1500.00	1440	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	708233	300.000	274	
66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	645832	300.000	279	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	272867	50.0000		
68 Chlorobenzene	112	7.392	7.390	(1.003)	1813636	300.000	284	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	684469	300.000	282	
70 Ethylbenzene	106	7.487	7.484	(1.016)	997796	300.000	288	
71 m&p-Xylene	106	7.598	7.598	(1.031)	2382710	600.000	568	
72 o-Xylene	106	7.899	7.899	(1.072)	1121401	300.000	291	
73 Styrene	104	7.918	7.918	(1.075)	1982155	300.000	300	
74 Bromoform	173	8.055	8.055	(0.883)	573001	300.000	266	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	2917014	300.000	300	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	119189	50.0000	49.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.074	8.071	(1.096)	2309364	1200.00	1240	
78 Bromobenzene	77	8.402	8.402	(1.140)	1057325	300.000	275	
79 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	803669	300.000	271	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.447	(1.147)	225832	300.000	266	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	263930	300.000	251	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	3218078	300.000	306	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	1819558	300.000	272	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	2229538	300.000	284	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	691725	300.000	278	
86 tert-Butylbenzene	119	8.836	8.834	(0.969)	2274211	300.000	272	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	2266870	300.000	278	
88 sec-Butylbenzene	105	8.987	8.984	(0.985)	2752408	300.000	288	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	1385280	300.000	276	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	2329979	300.000	295	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	145639	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	9.137	9.134	(1.002)	1414566	300.000	258	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	1939596	300.000	294	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	1337396	300.000	274	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.871	(1.082)	187319	300.000	303	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	988967	300.000	330	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	410330	300.000	330	
98 Naphthalene	128	10.534	10.534	(1.155)	2871271	300.000	324	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	969322	300.000	339	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	1746256	300.000	354	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	1468308	300.000	333	

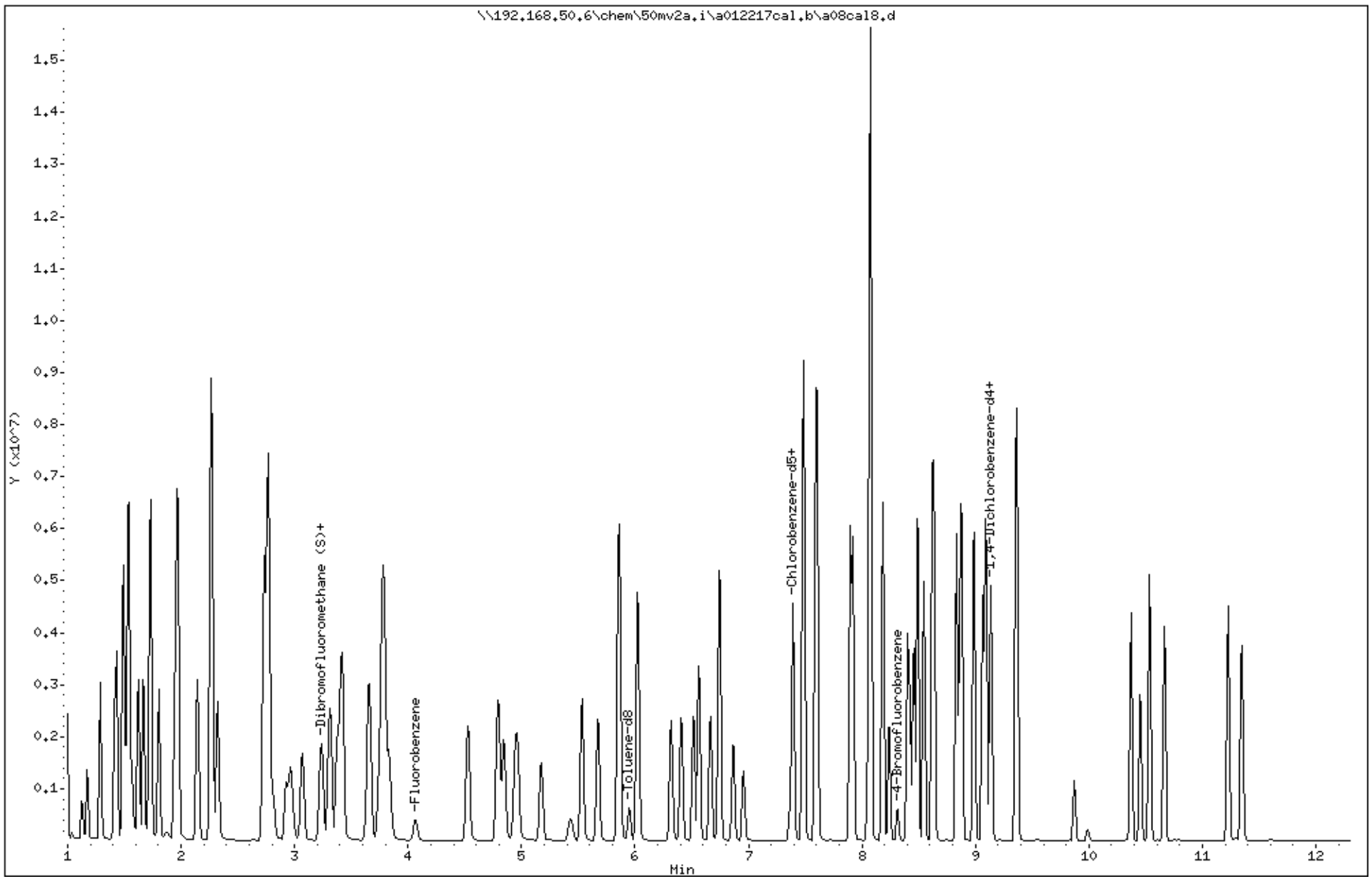
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a08cal8.d
Date : 23-JAN-2017 01:44
Client ID: 8260-CAL8
Instrument: 50mv2a.i
Sample Info: 8260-CAL8,140433:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



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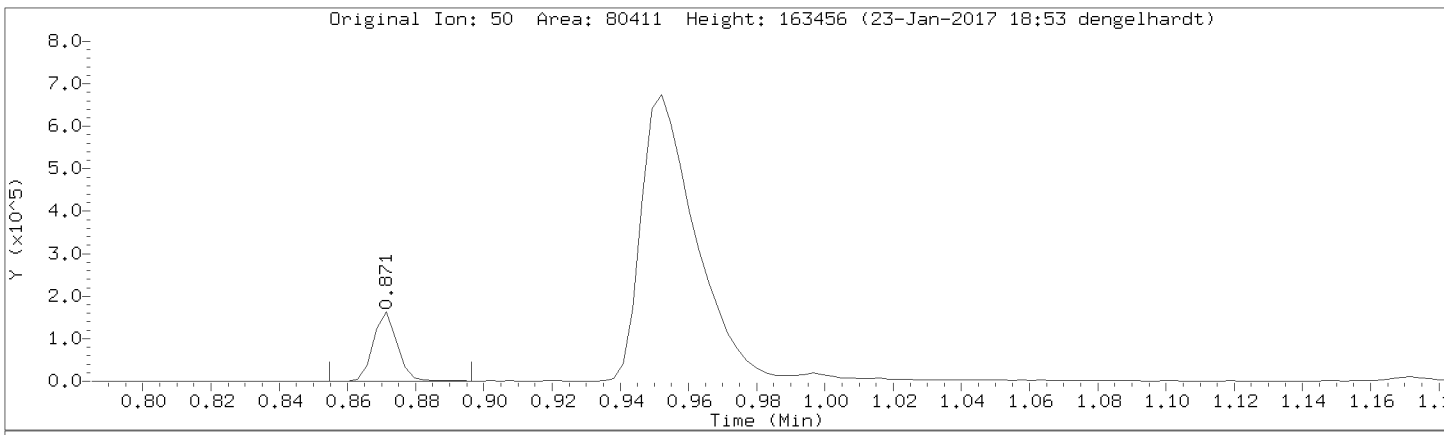
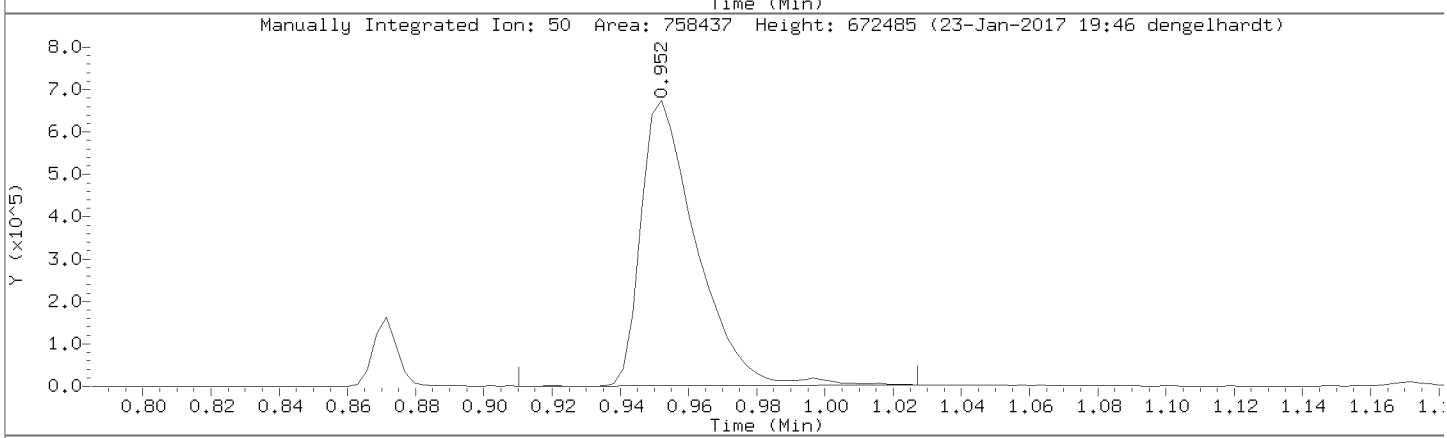
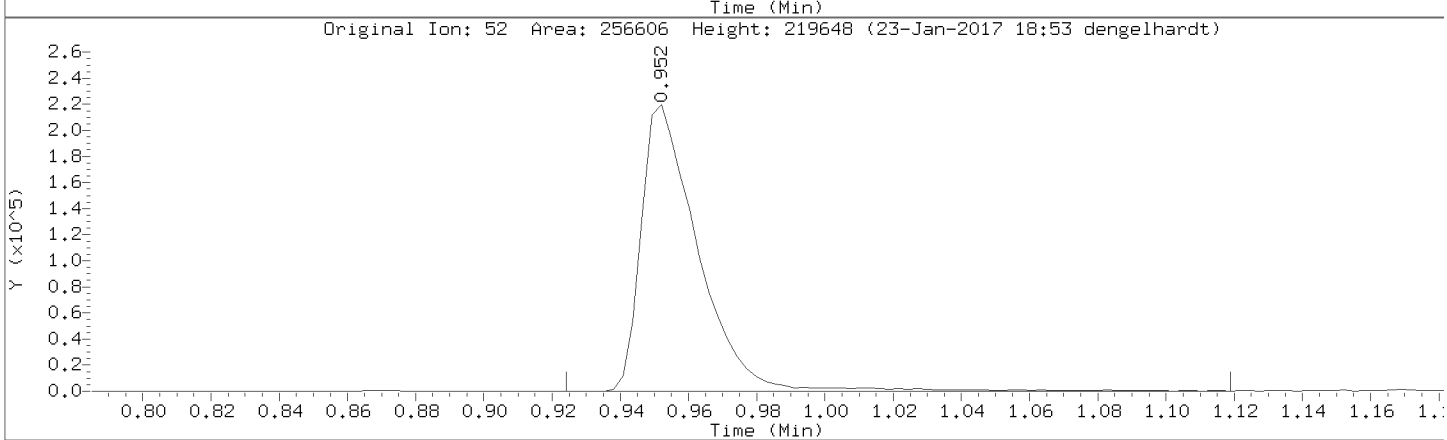
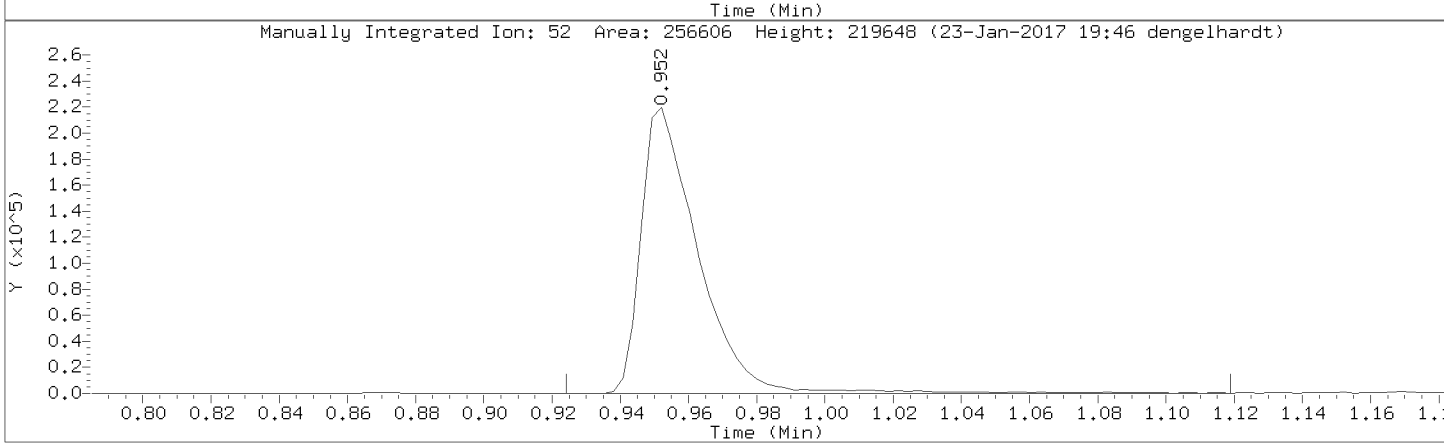
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Chloromethane Review Code: WP
CAS Number: 74-87-3









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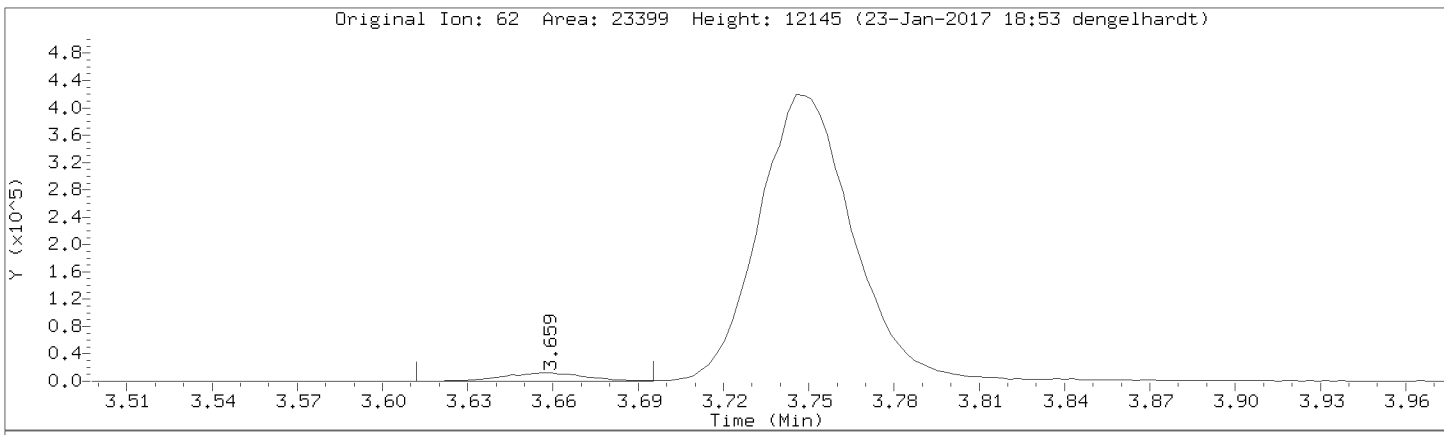
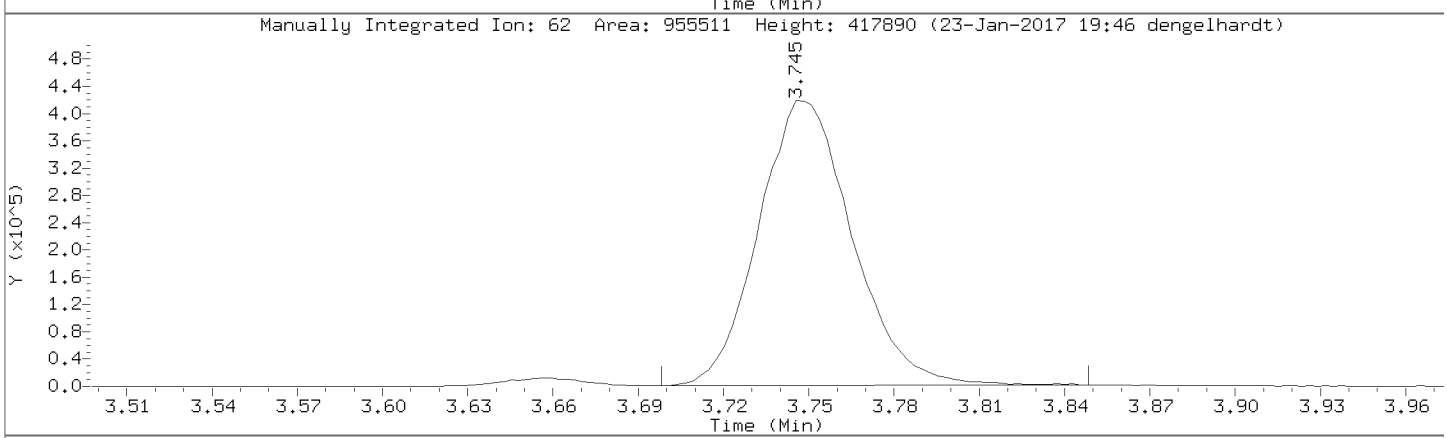
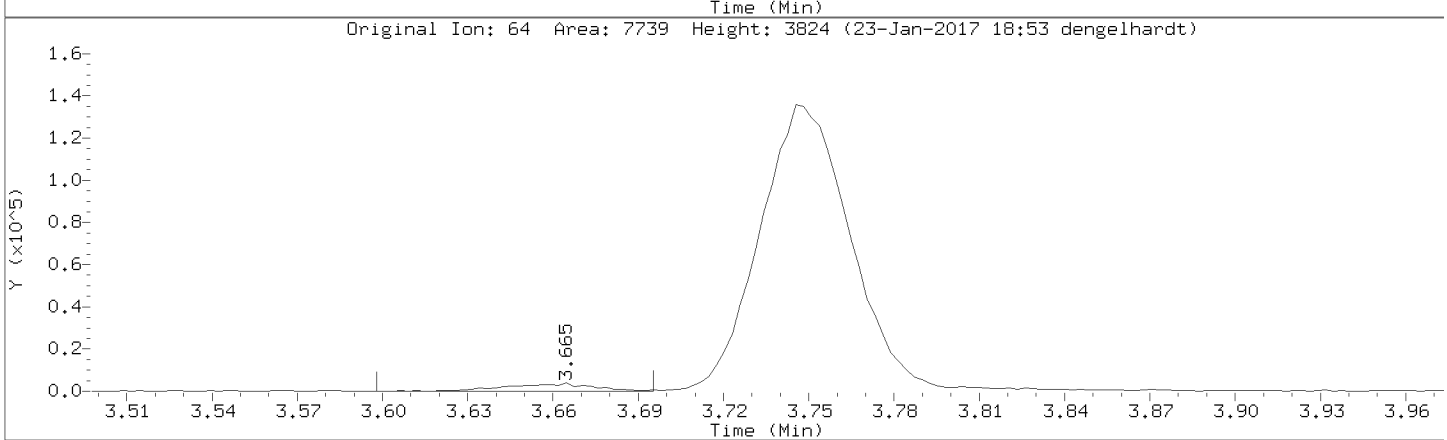
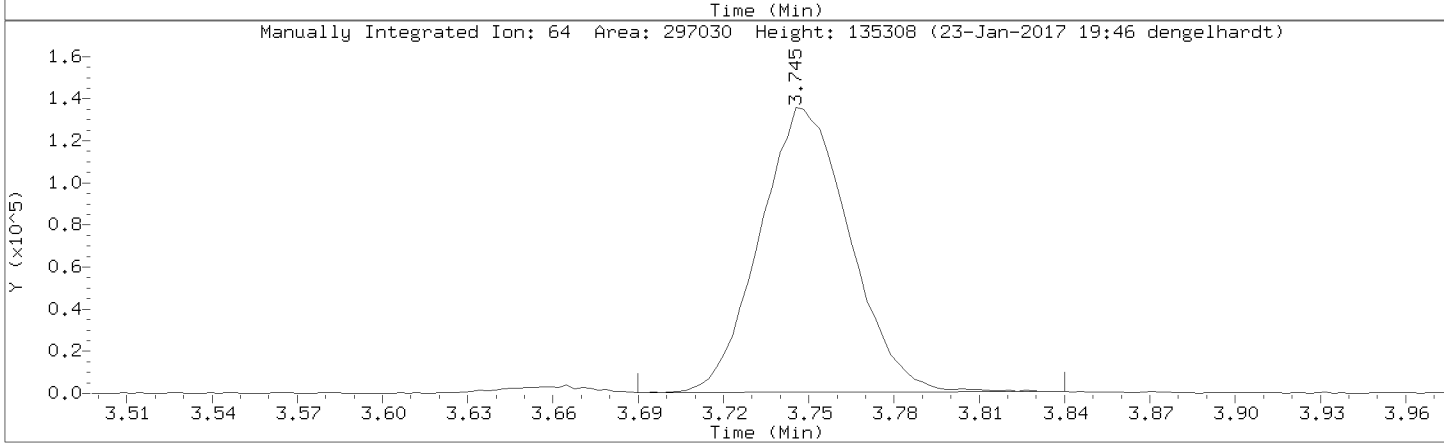
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: 1,2-Dichloroethane Review Code: WP
CAS Number: 107-06-2









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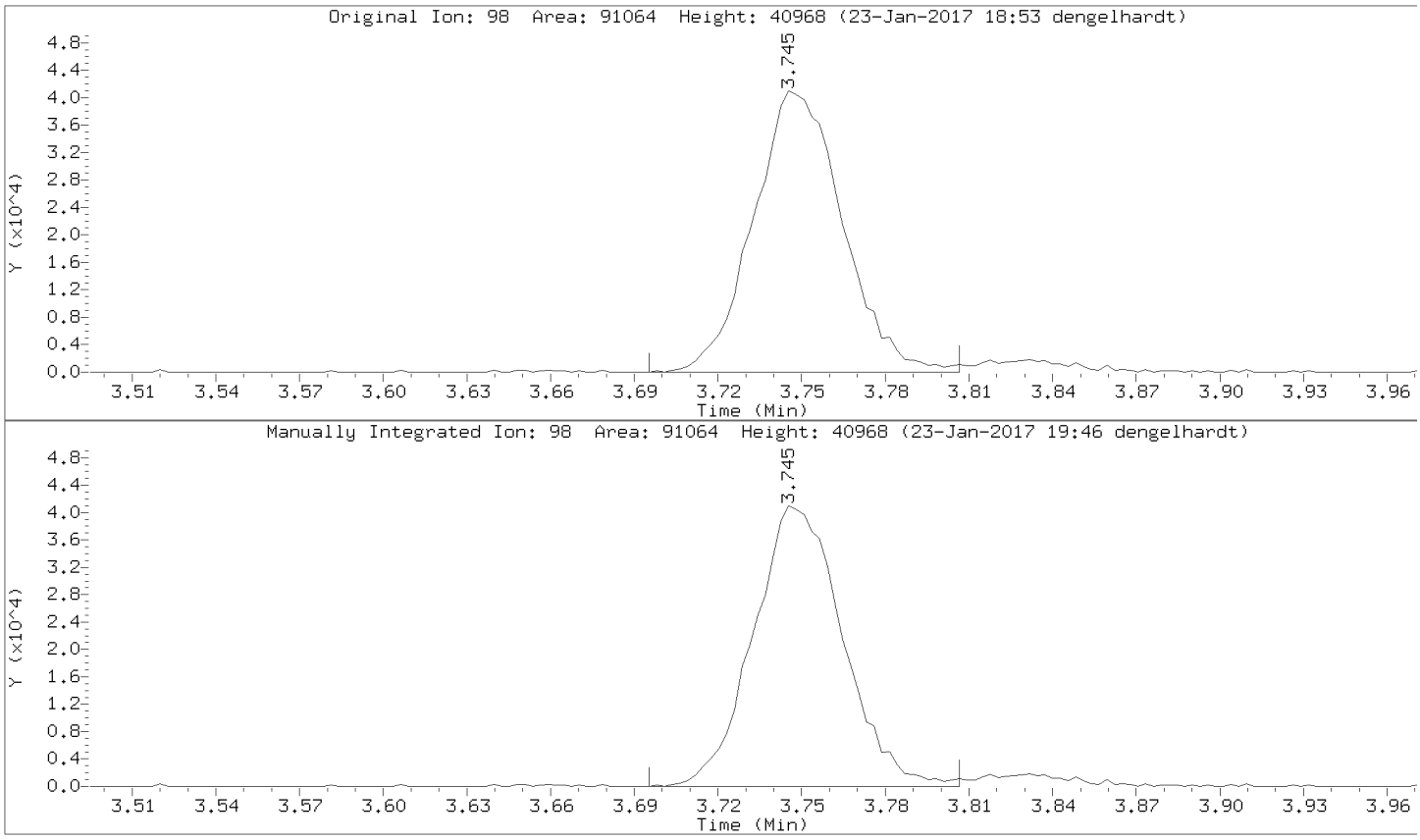
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8



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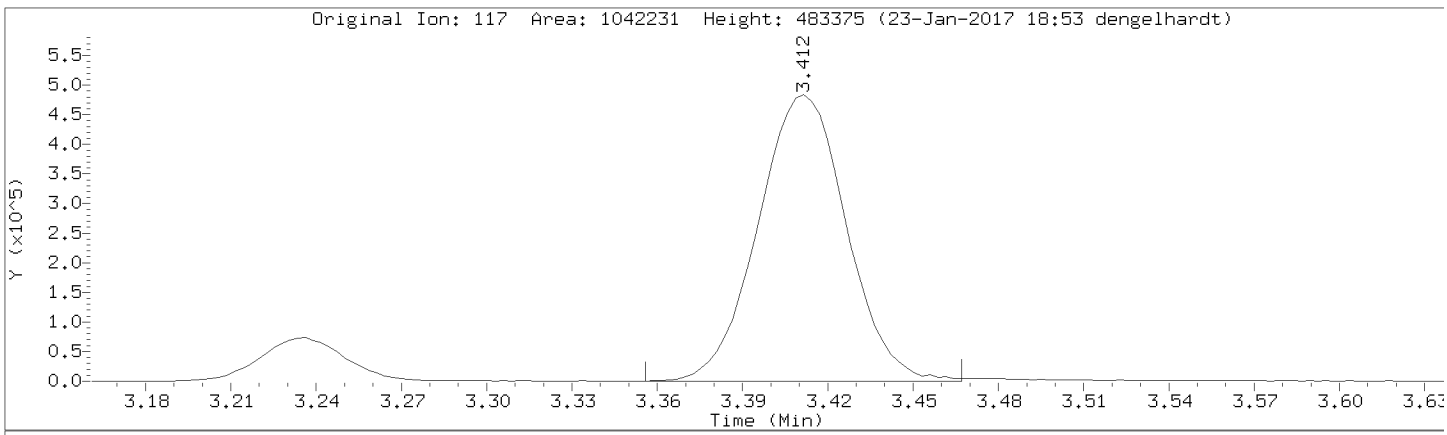
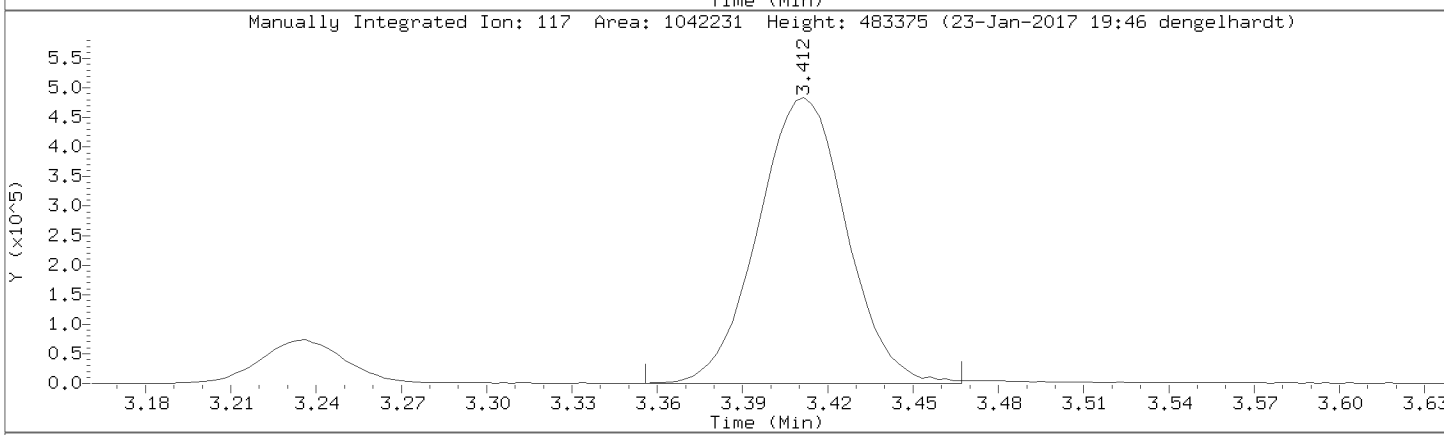
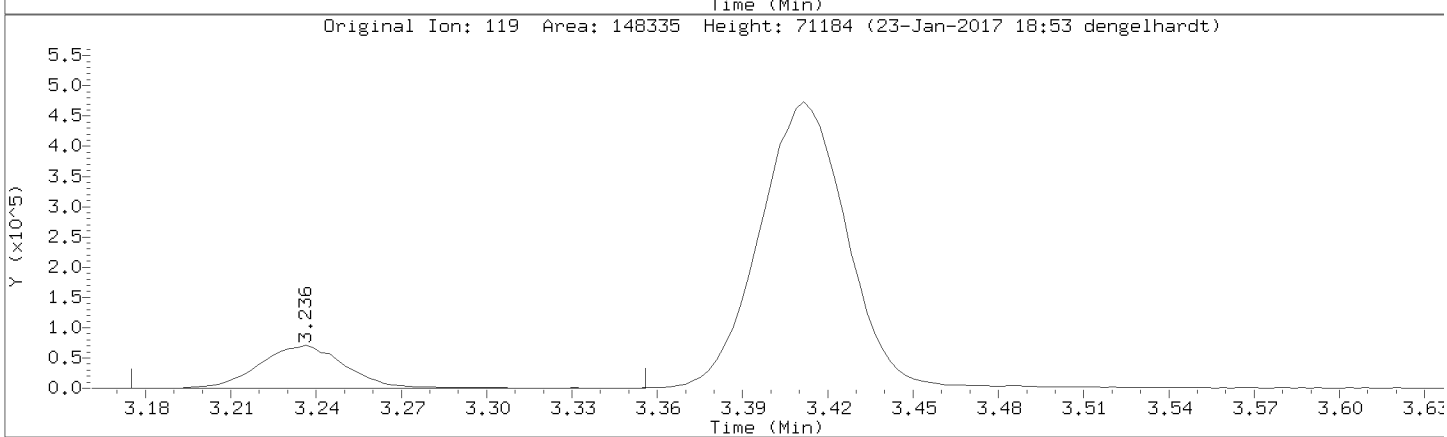
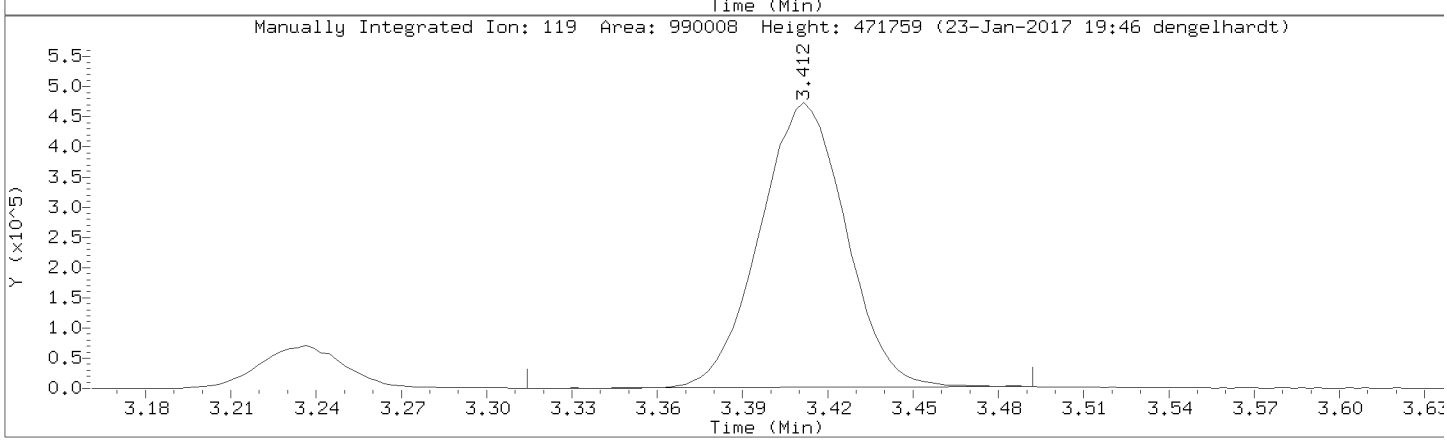
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Carbon Tetrachloride Review Code: WP
CAS Number: 56-23-5









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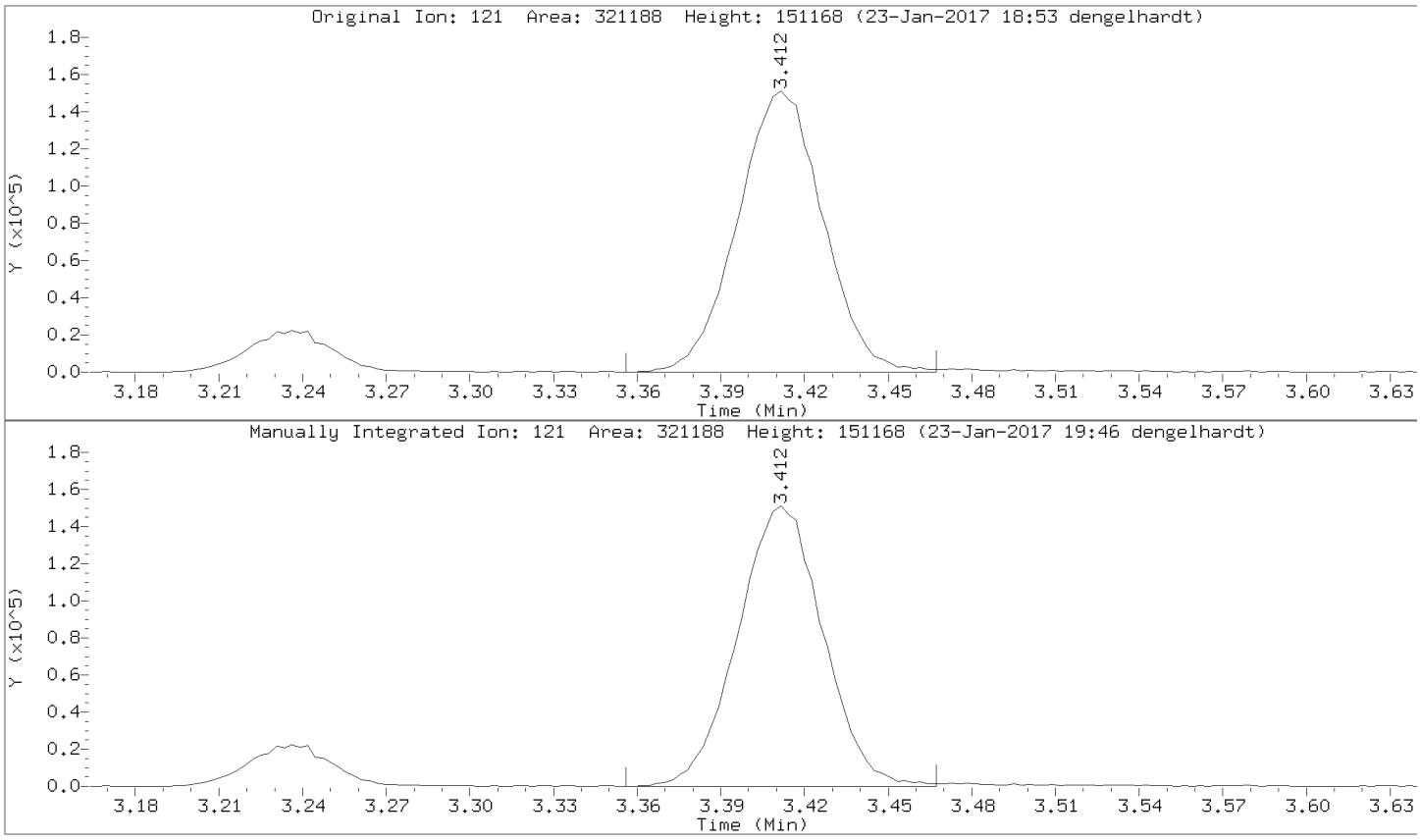
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8



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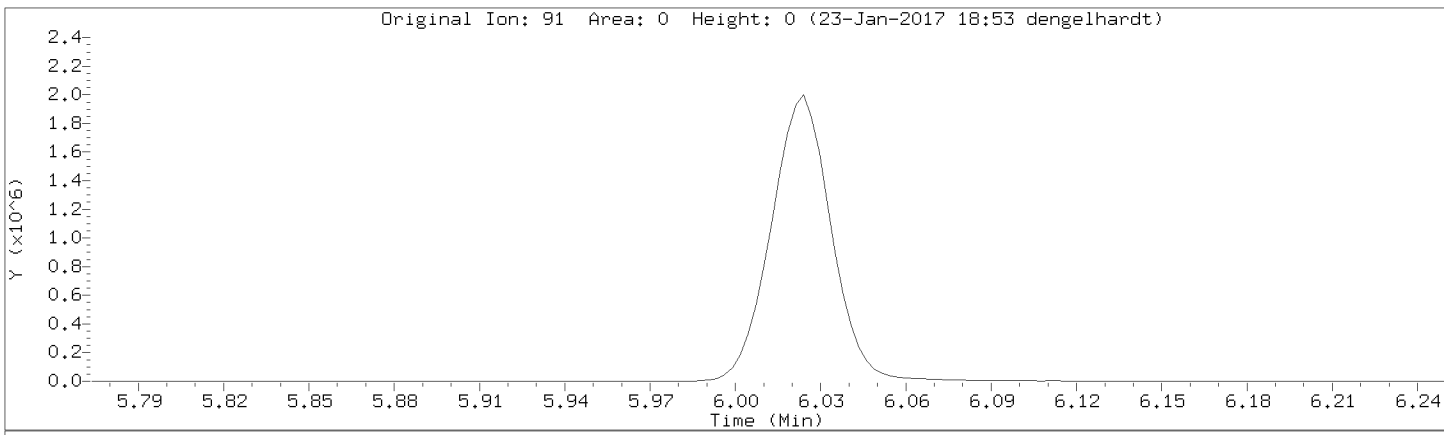
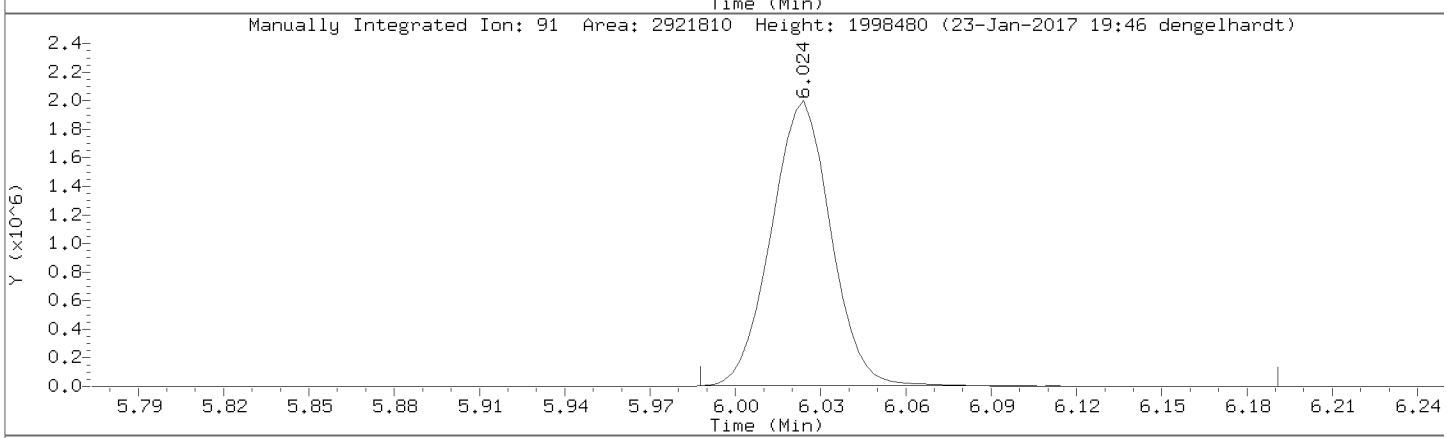
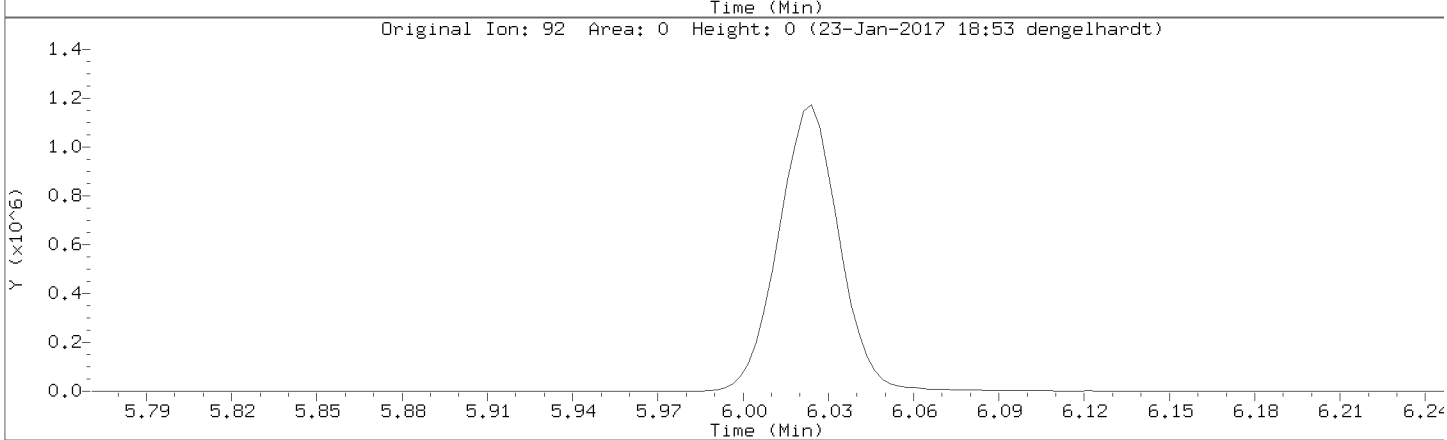
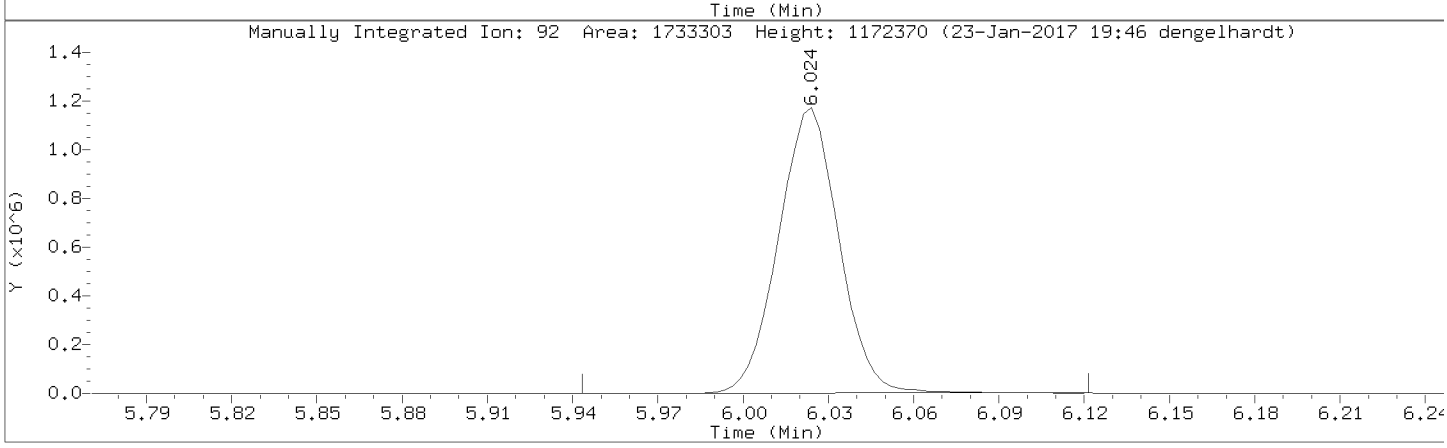
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Toluene Review Code: NI
CAS Number: 108-88-3









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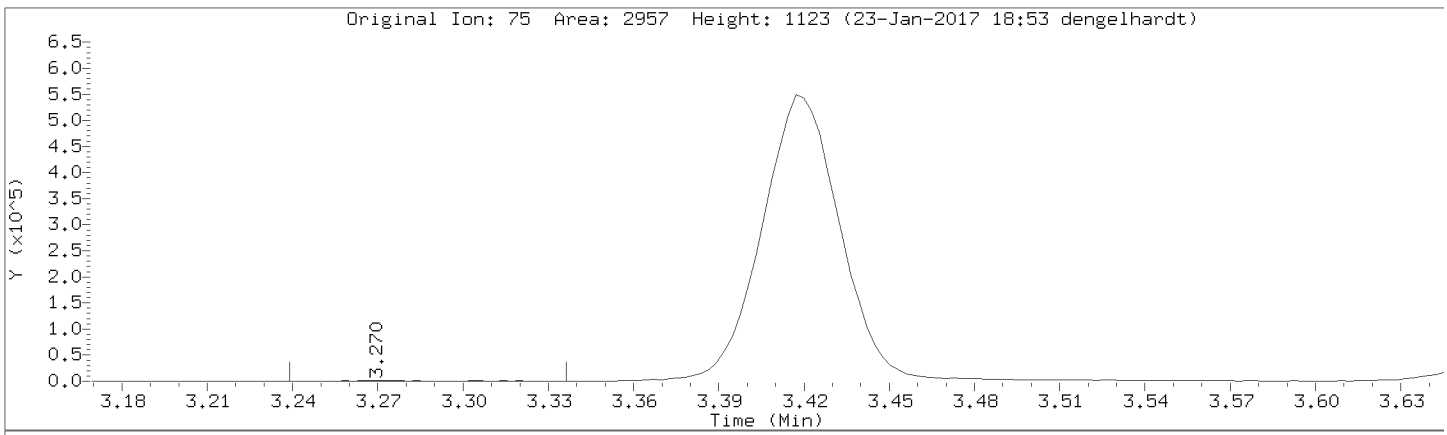
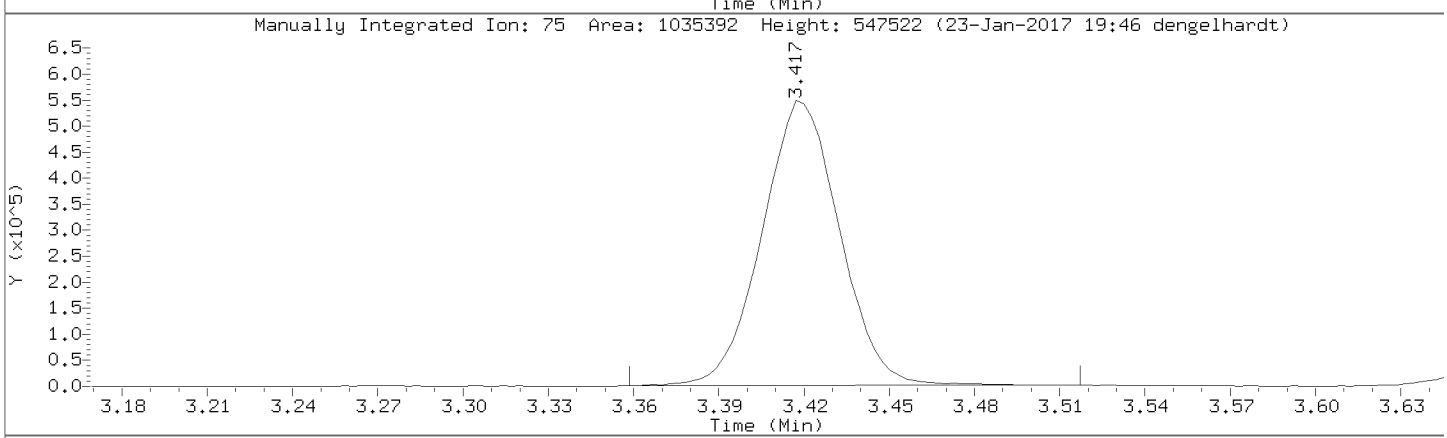
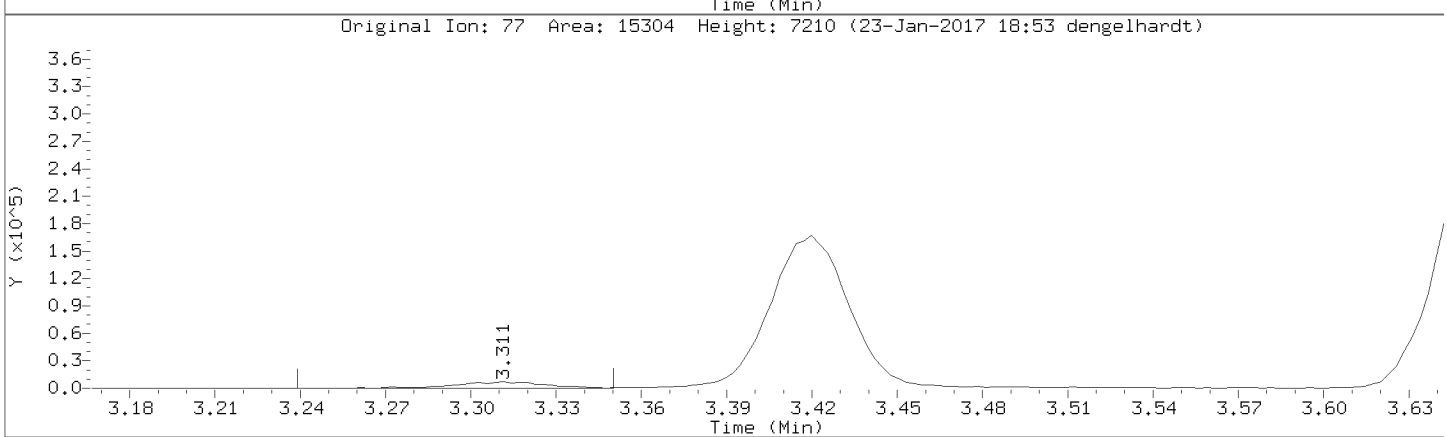
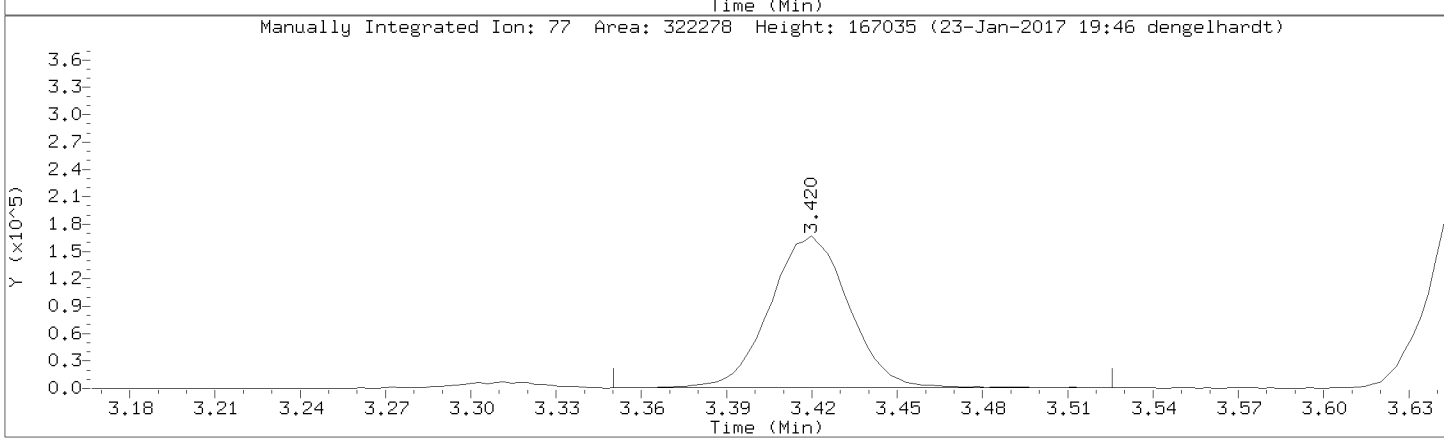
Injection Date: 23-JAN-2017 01:44
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: 1,1-Dichloropropene Review Code: WP
CAS Number: 563-58-6









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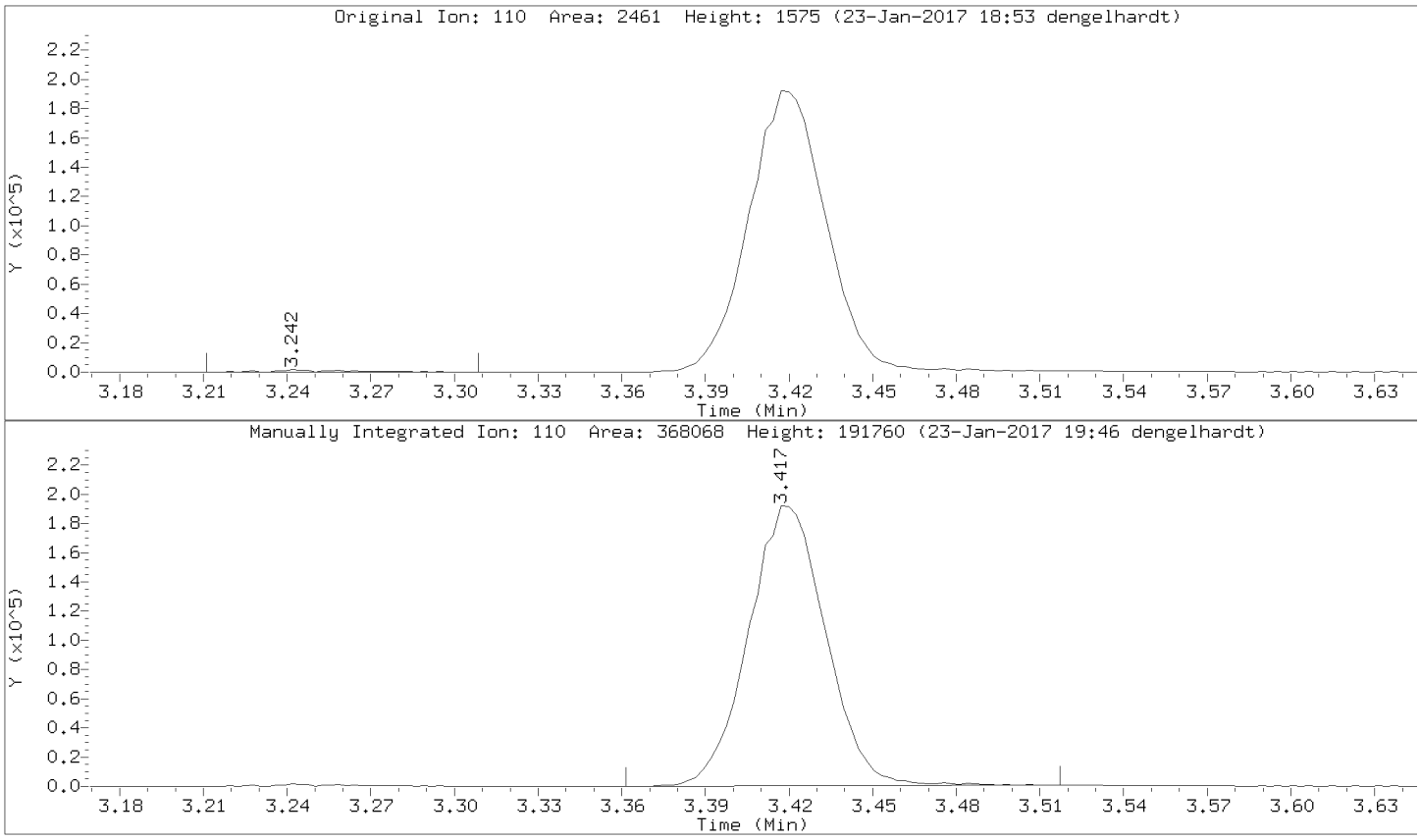
Lab Sample ID: 8260-CAL8



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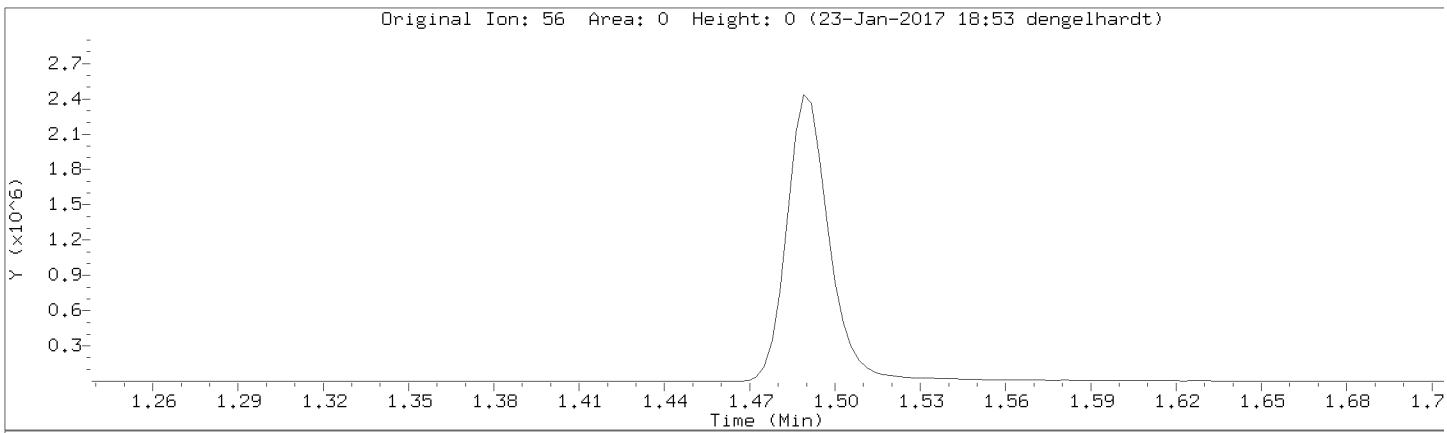
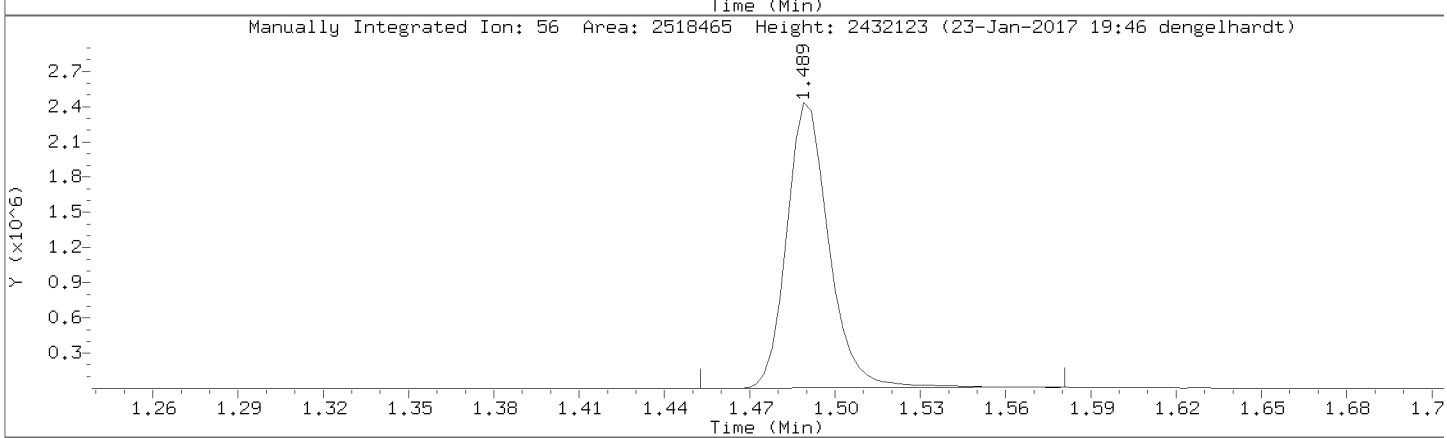
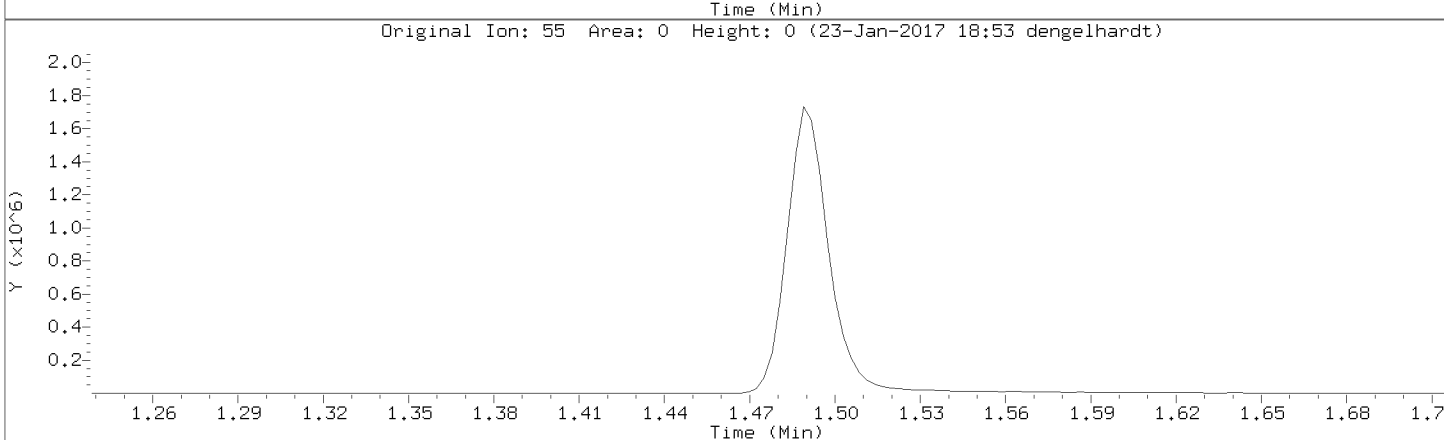
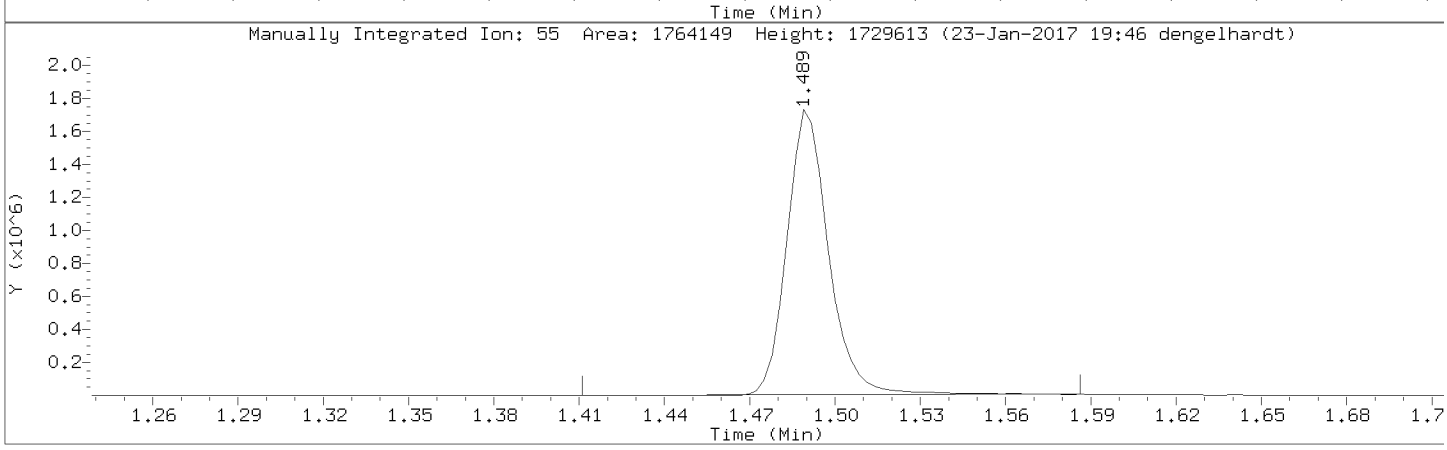
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Acrolein Review Code: NI
CAS Number: 107-02-8









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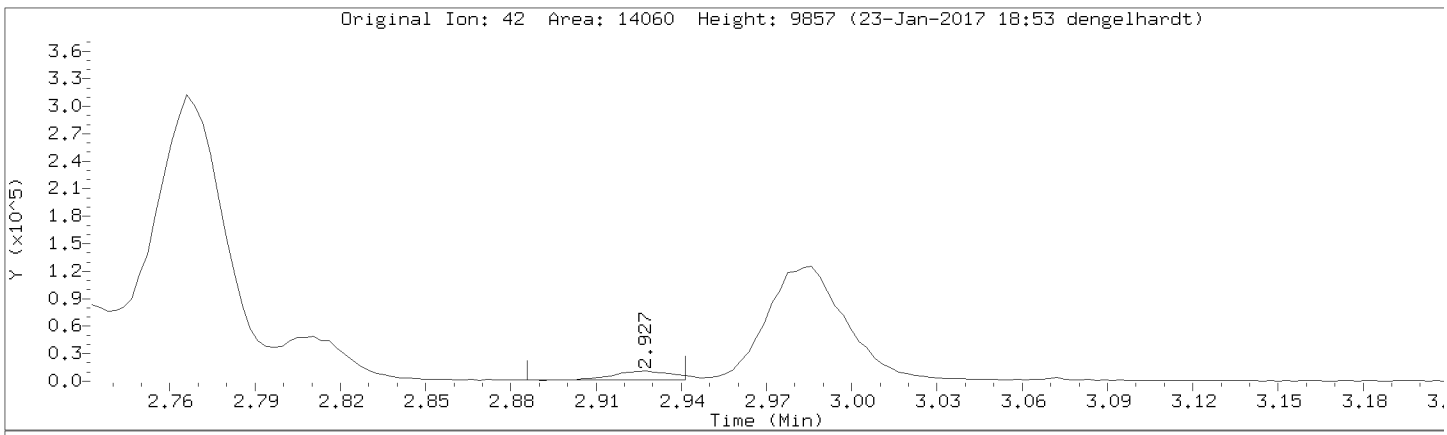
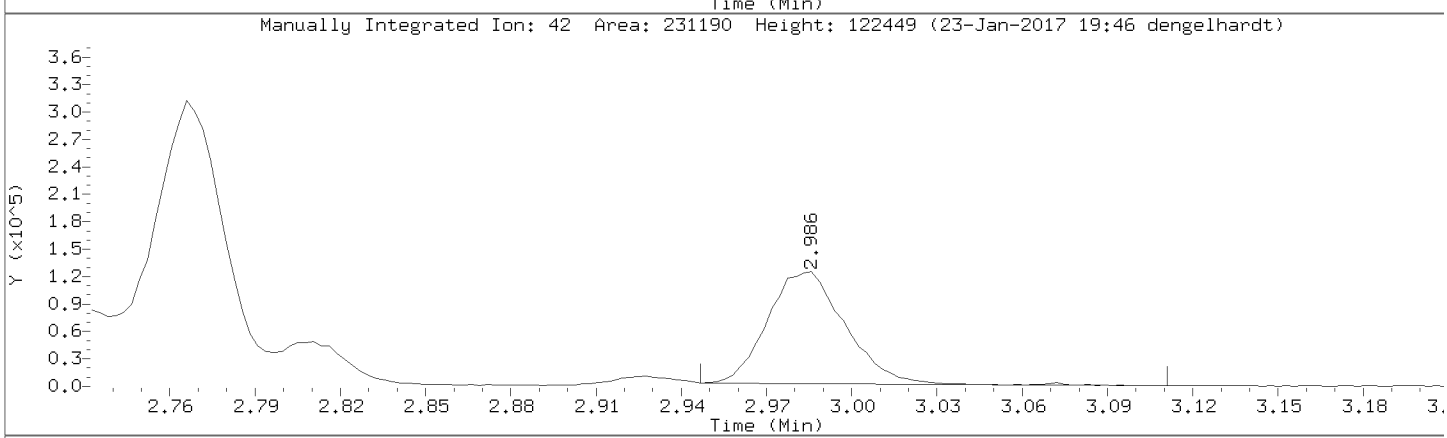
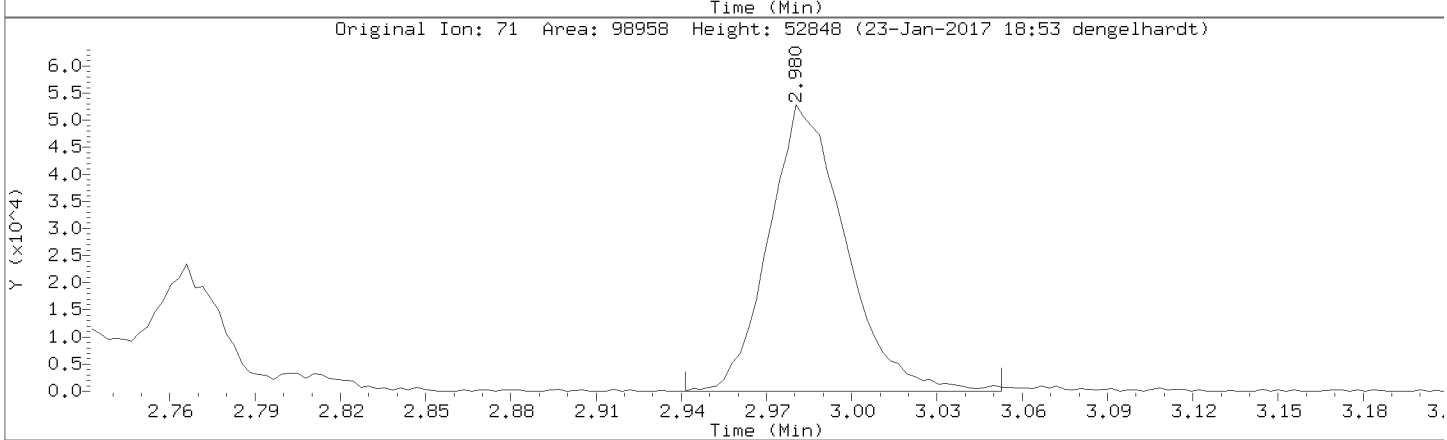
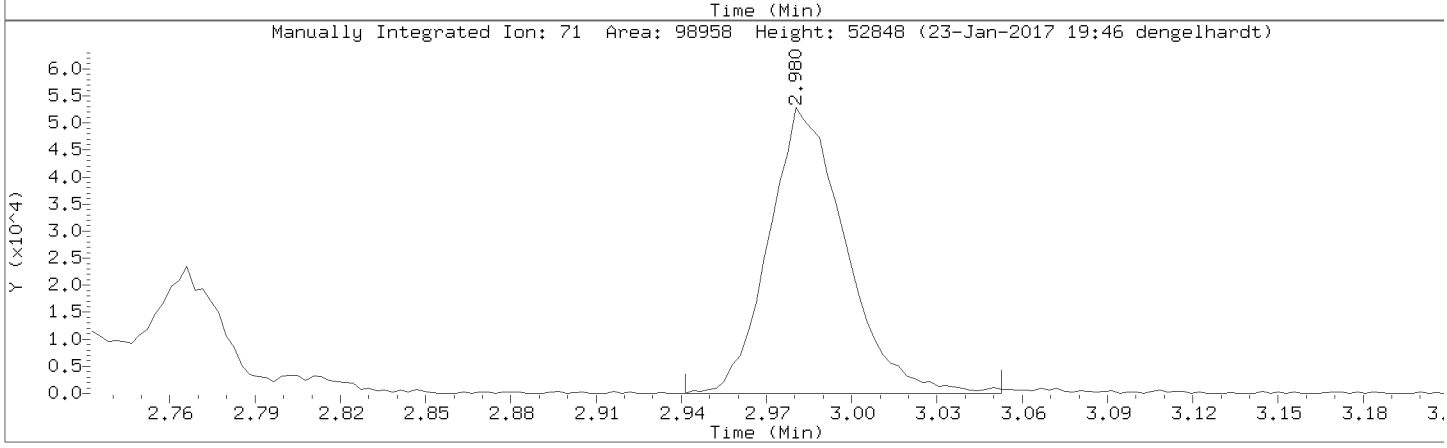
Injection Date: 23-JAN-2017 01:44
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Tetrahydrofuran Review Code: WP
CAS Number:









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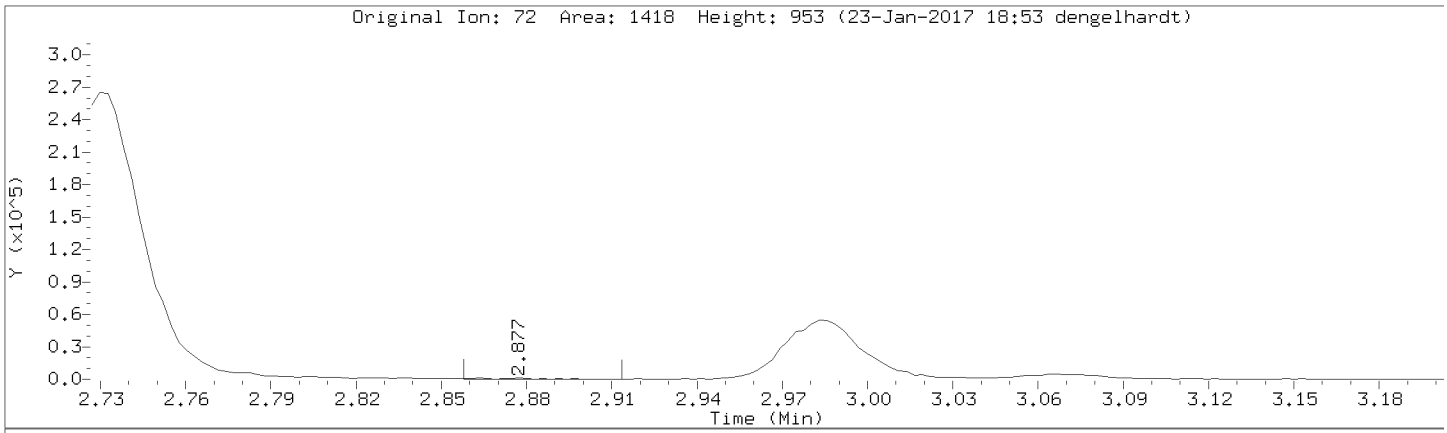
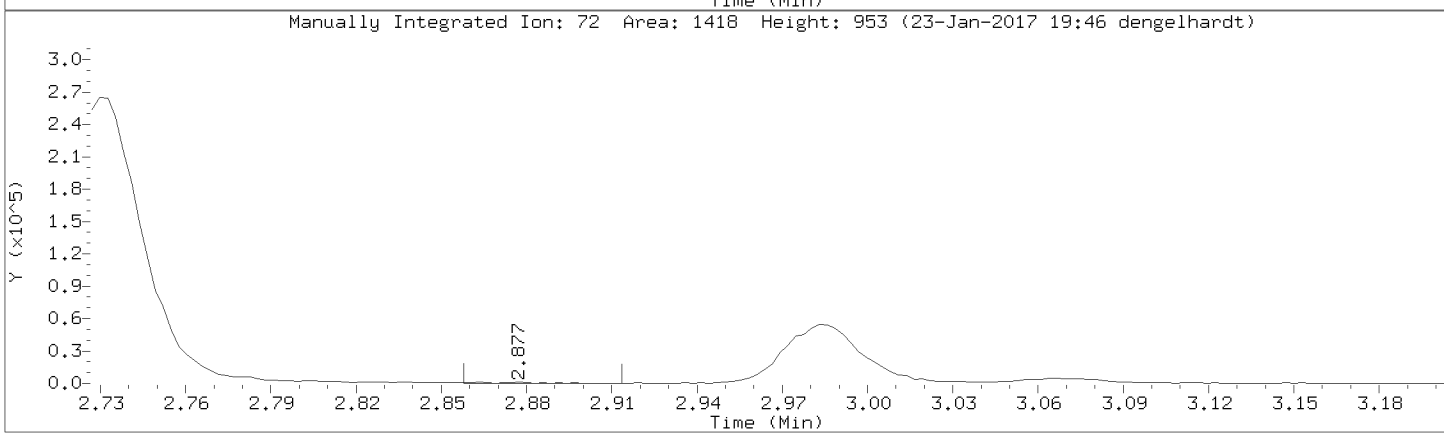
Lab Sample ID: 8260-CAL8





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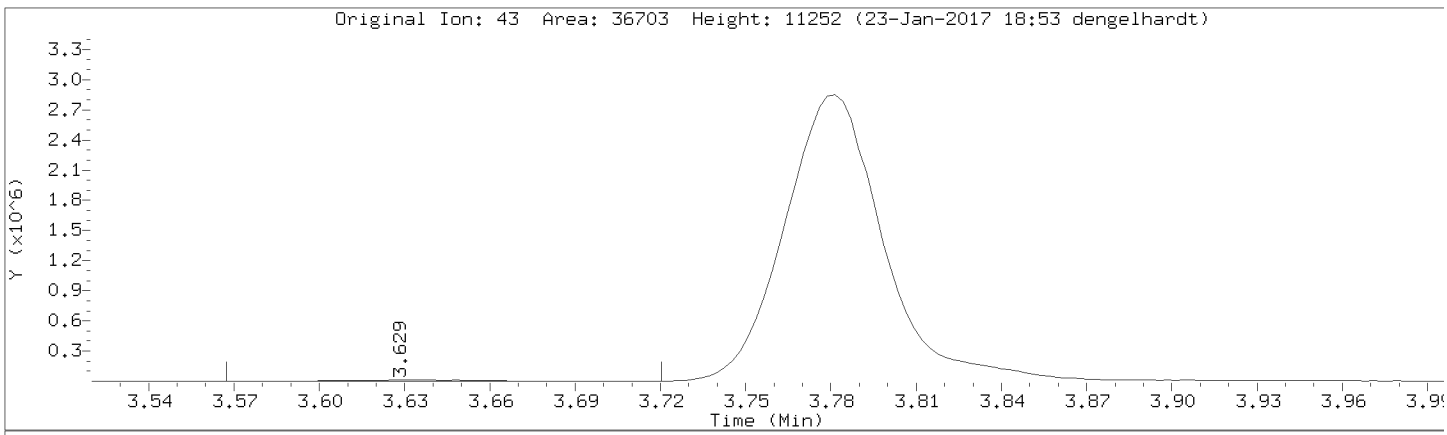
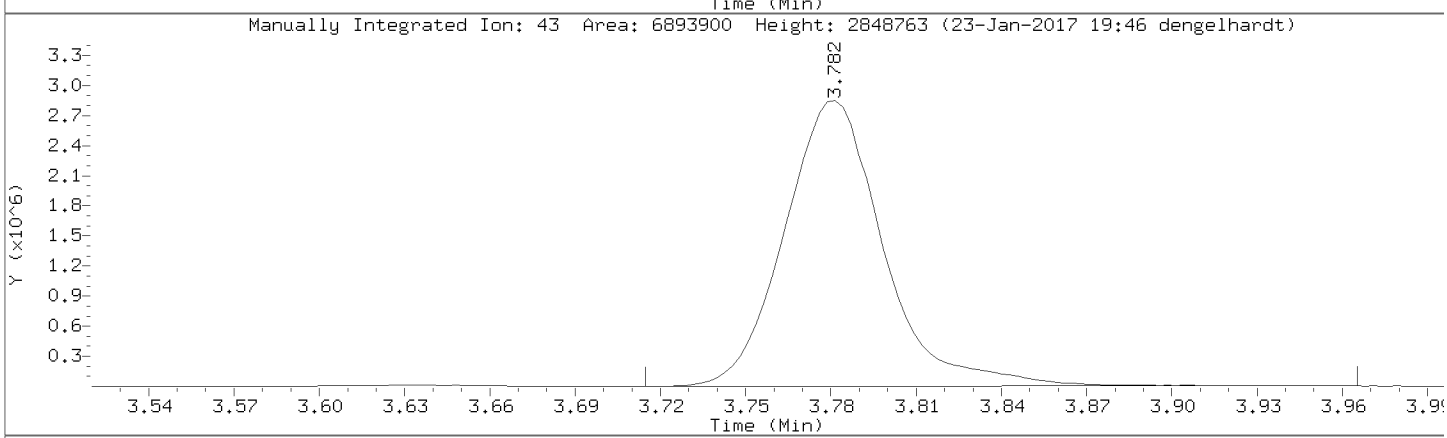
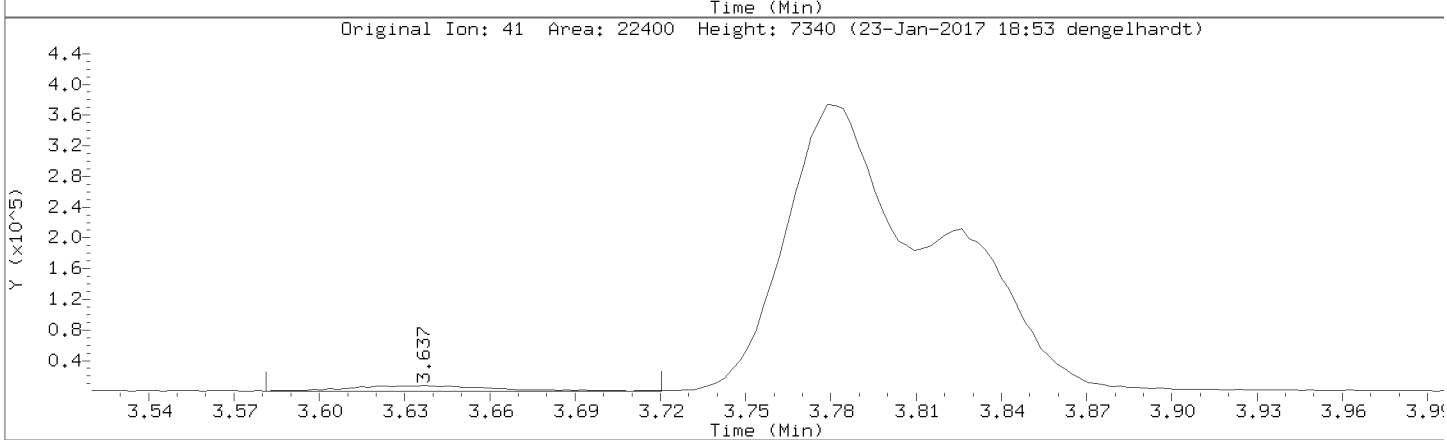
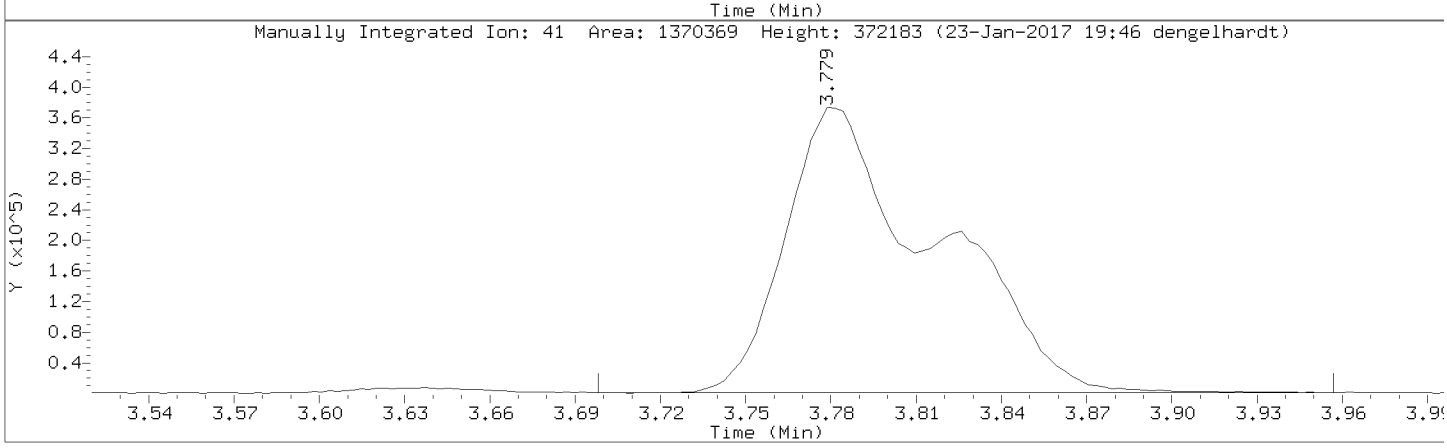
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1









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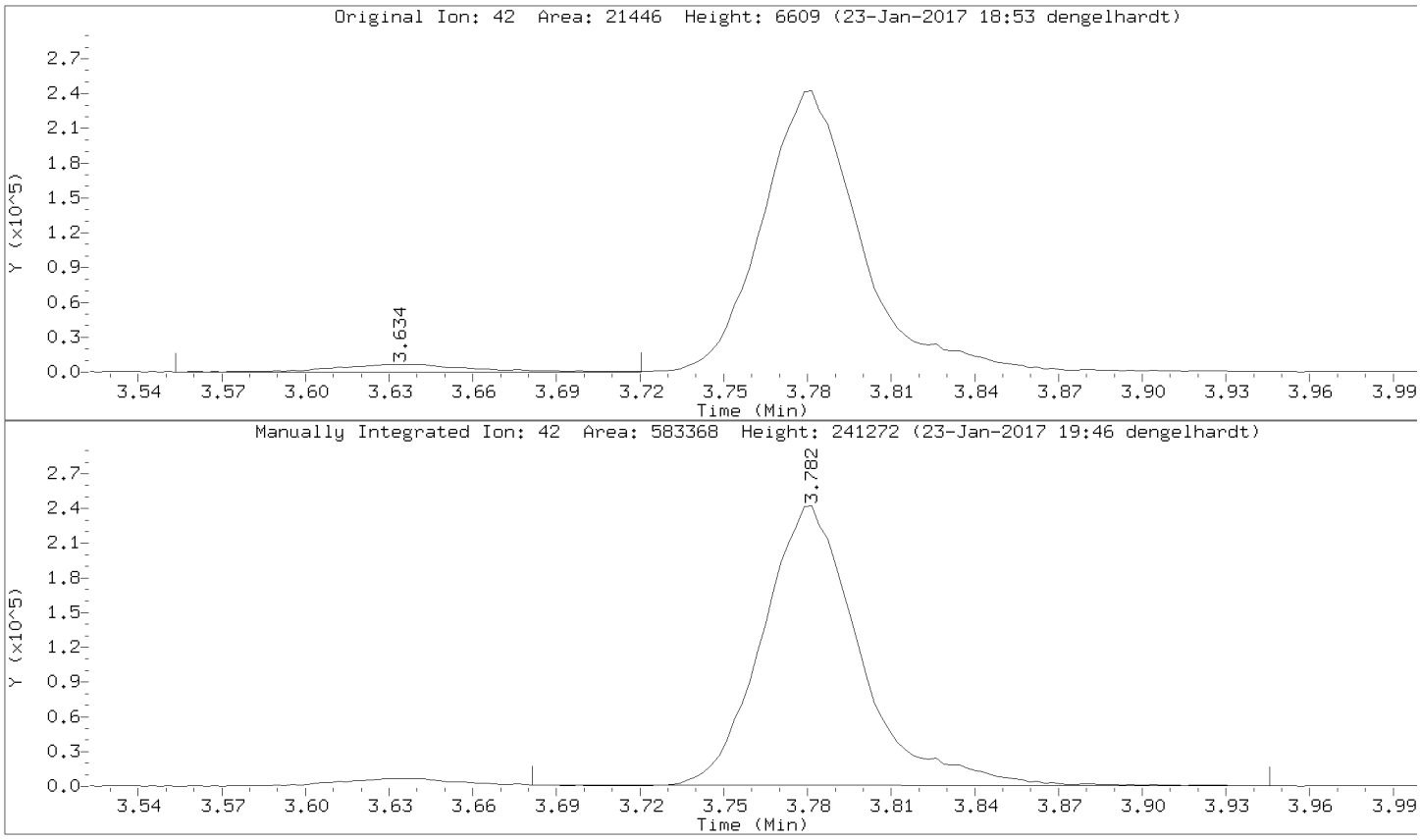
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8



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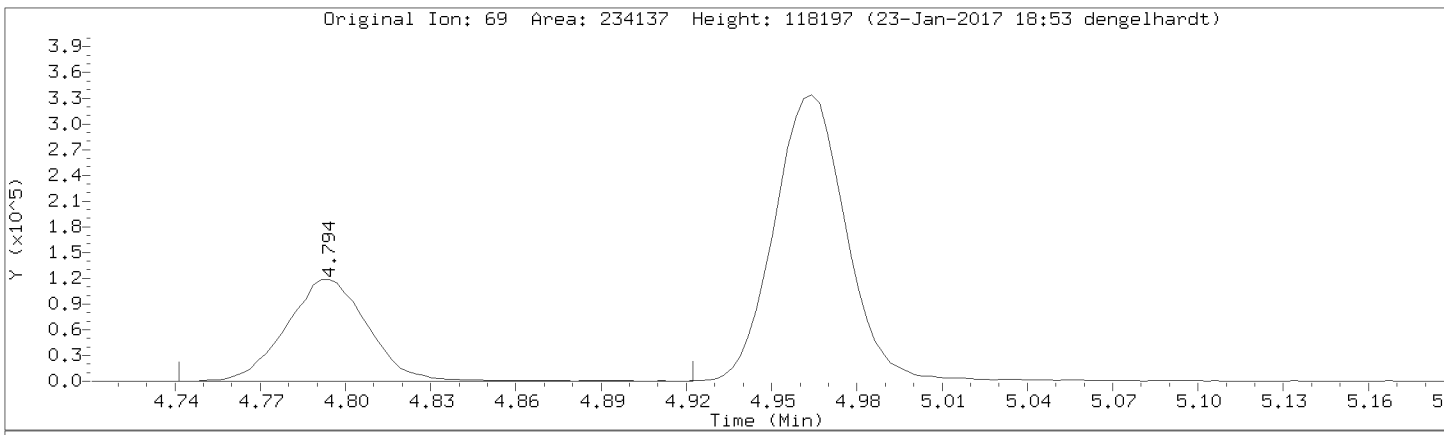
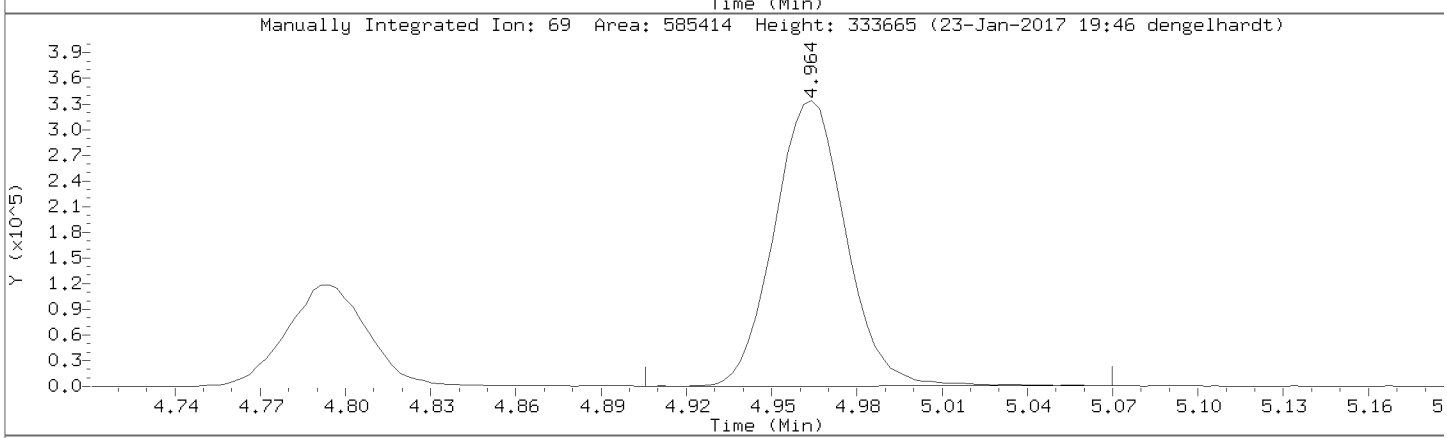
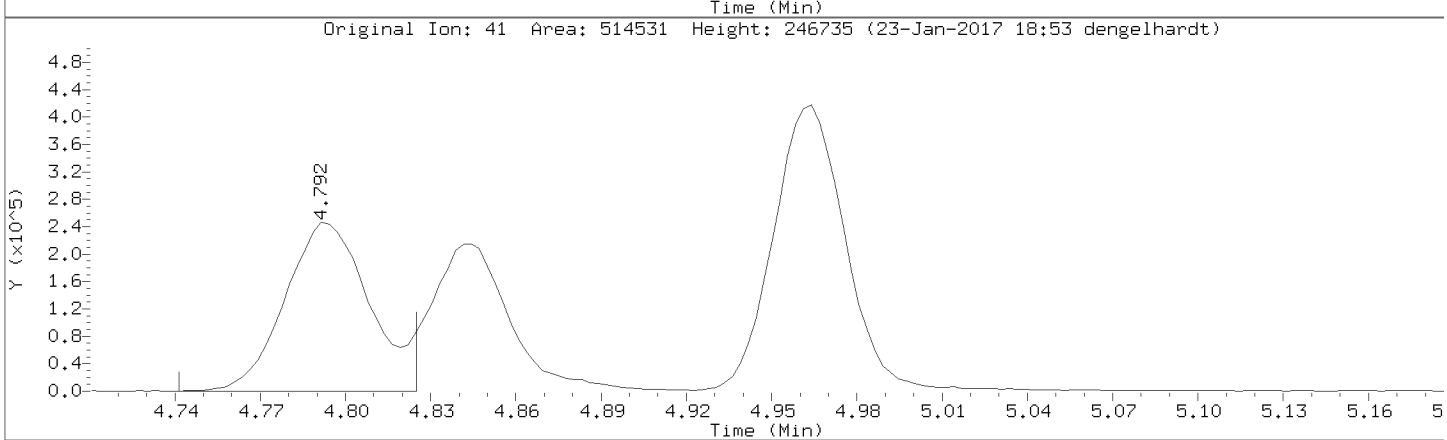
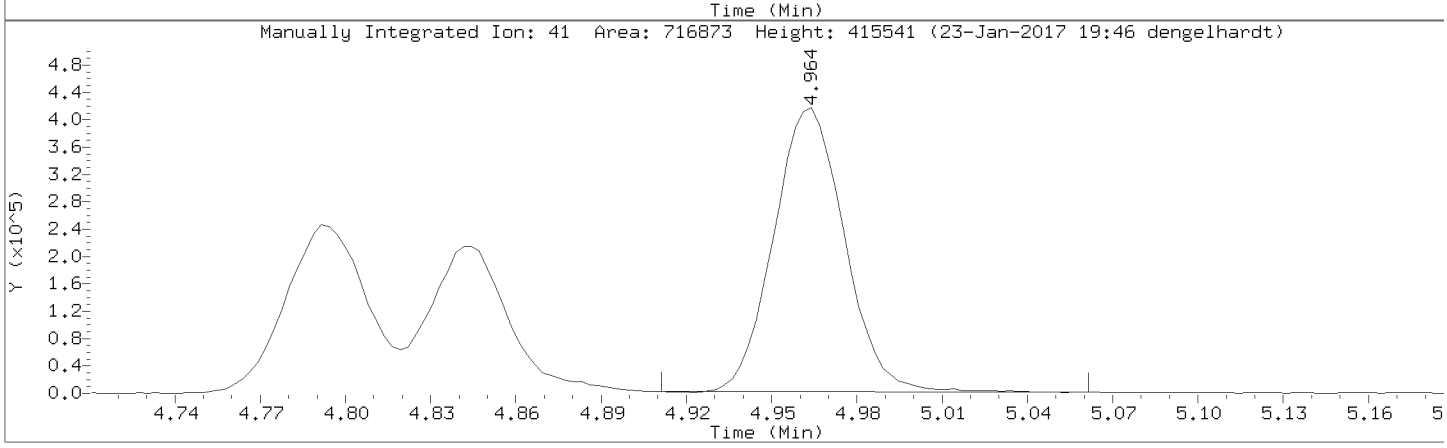
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Methyl methacrylate Review Code: WP
CAS Number: 80-62-6









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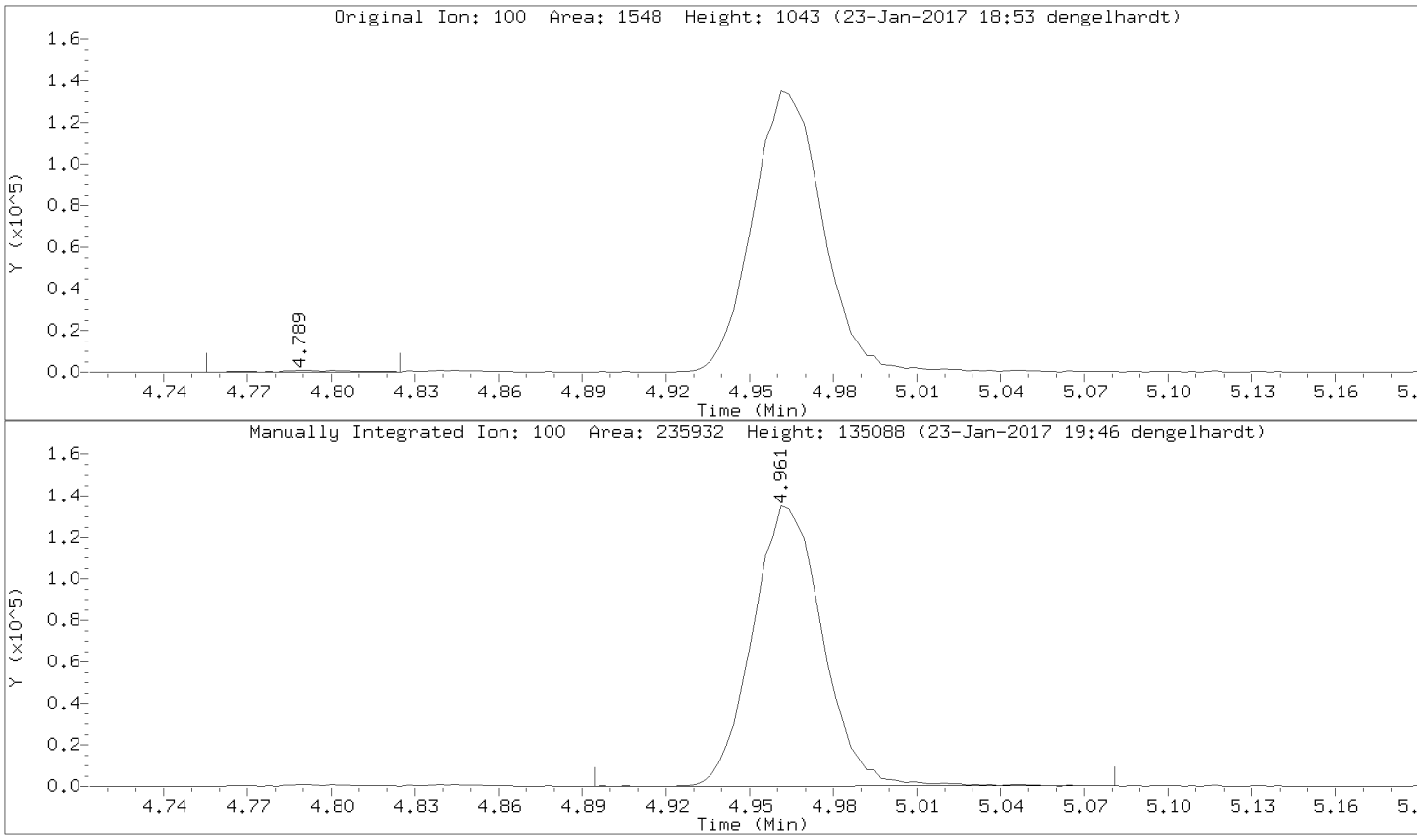
Lab Sample ID: 8260-CAL8



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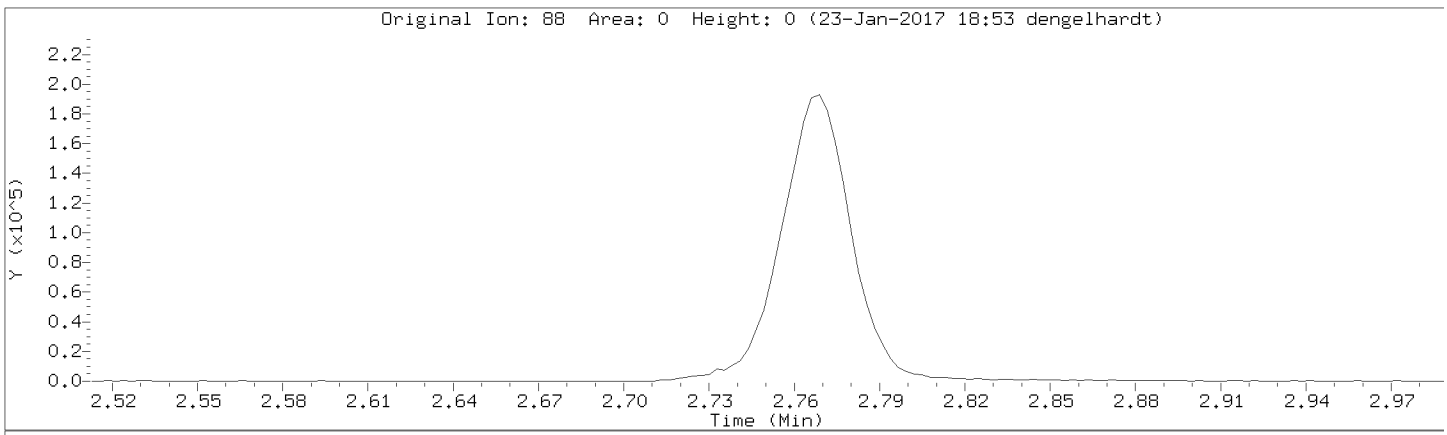
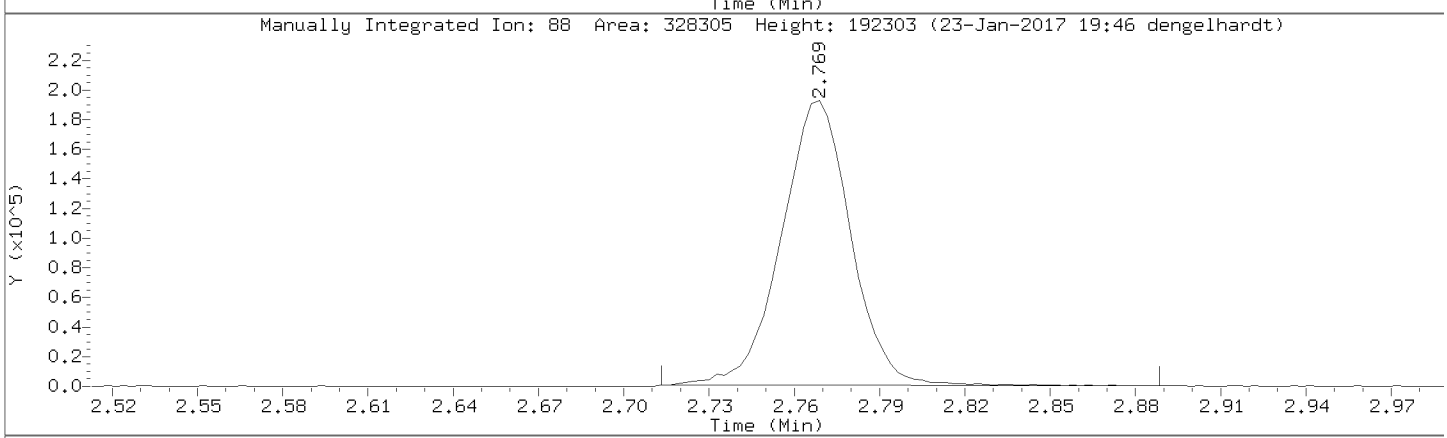
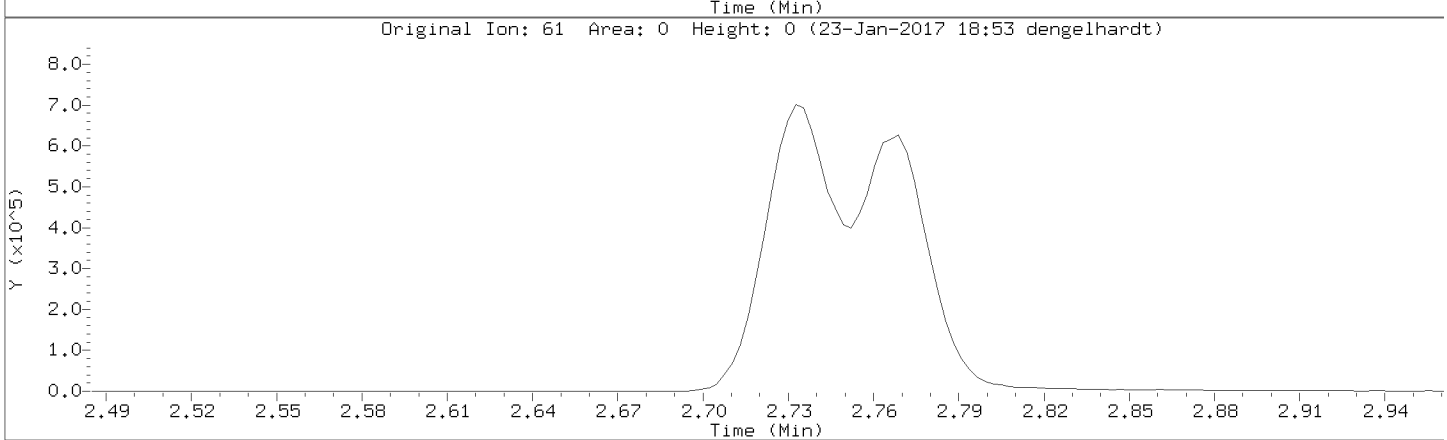
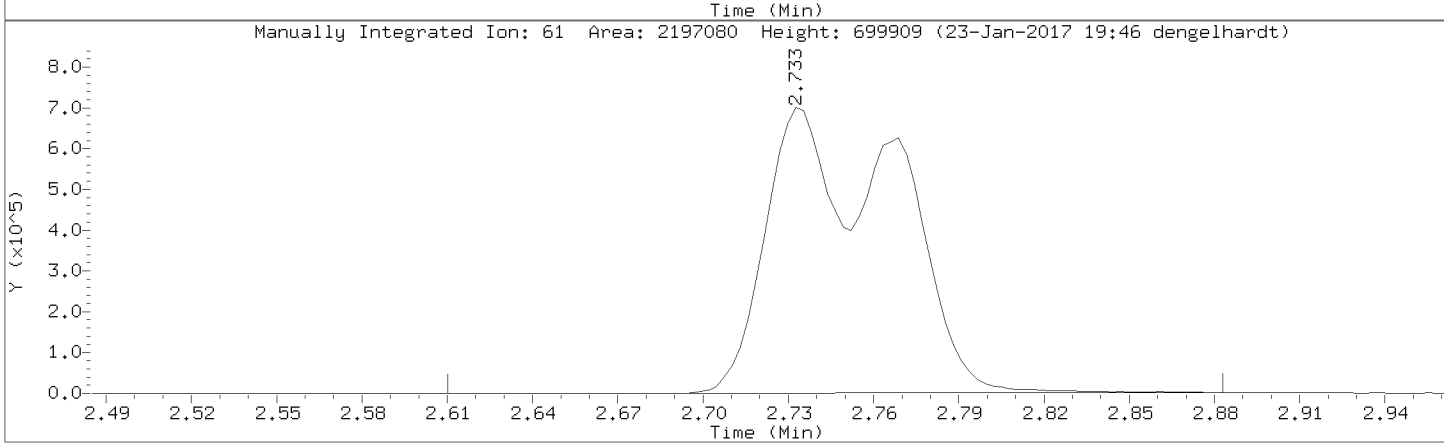
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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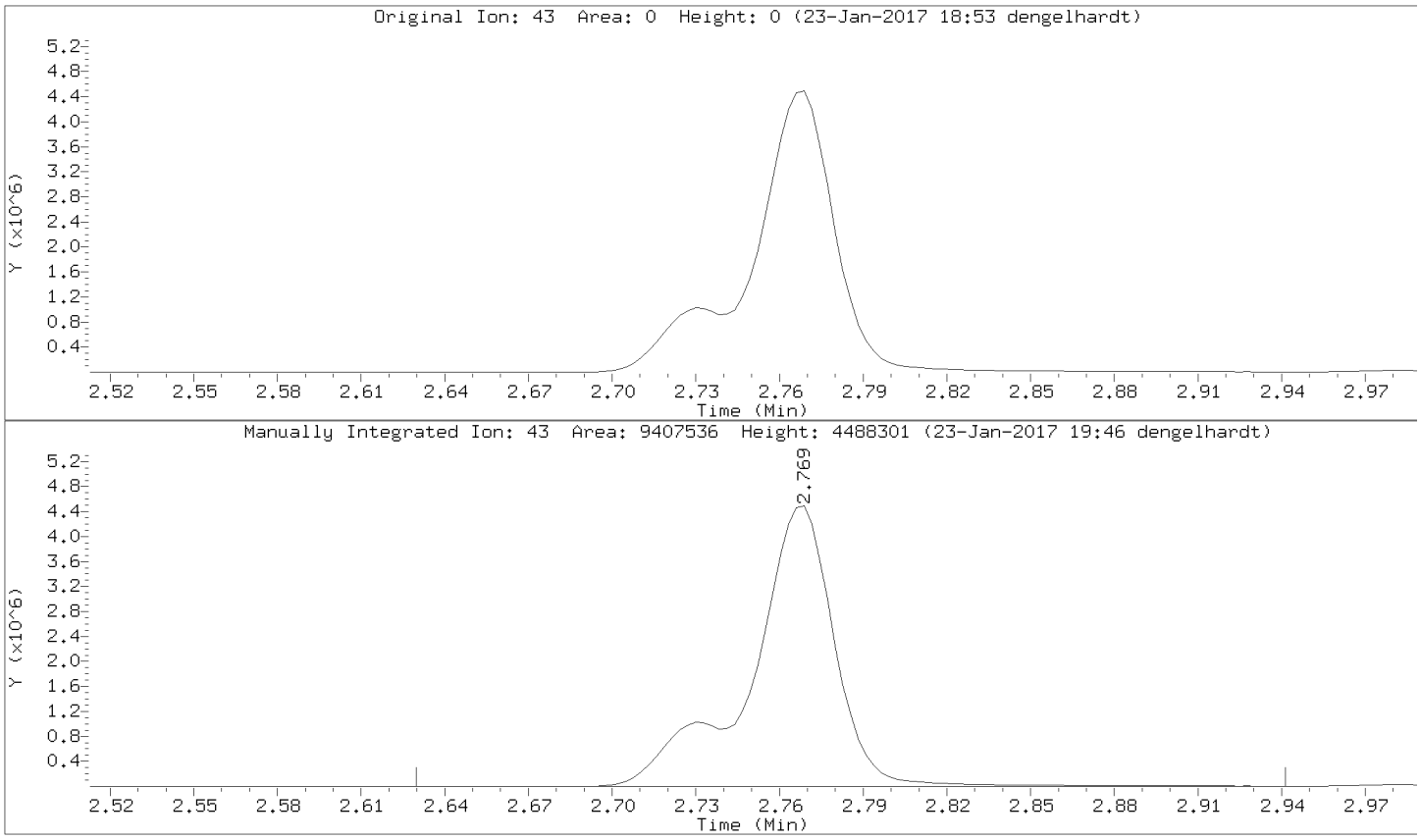
Lab Sample ID: 8260-CAL8



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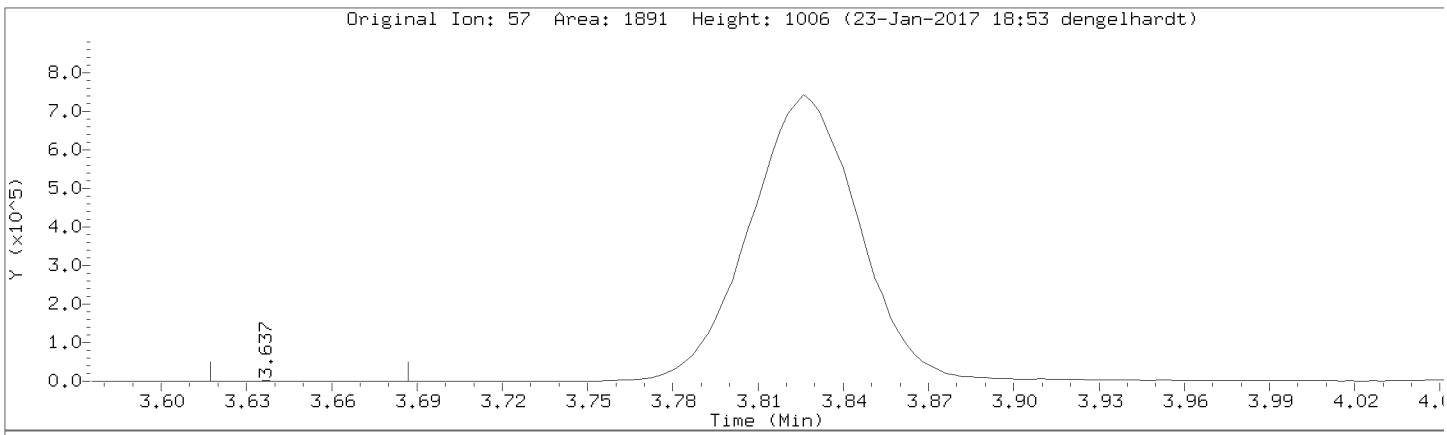
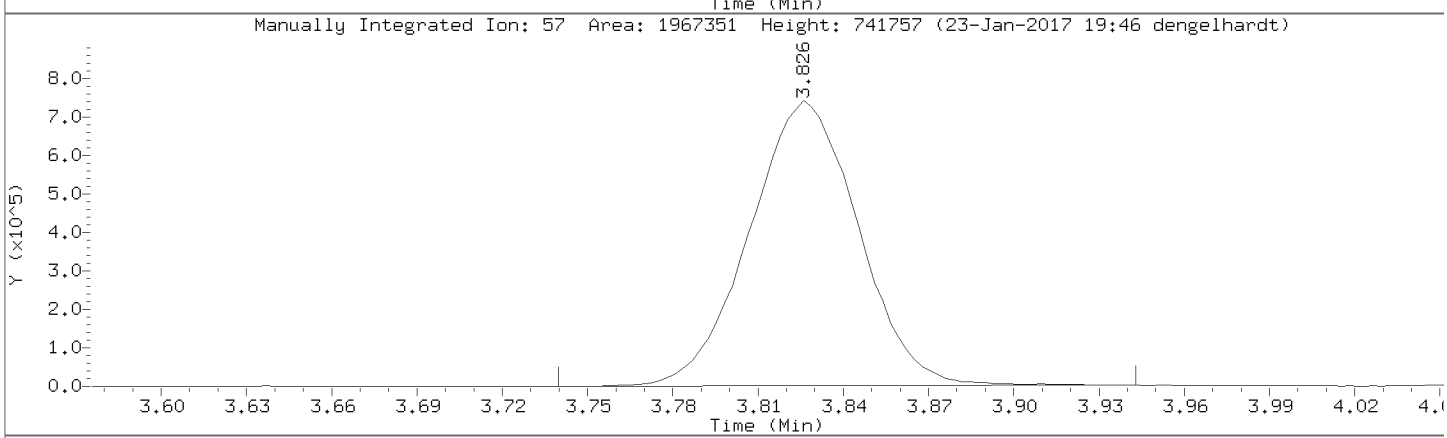
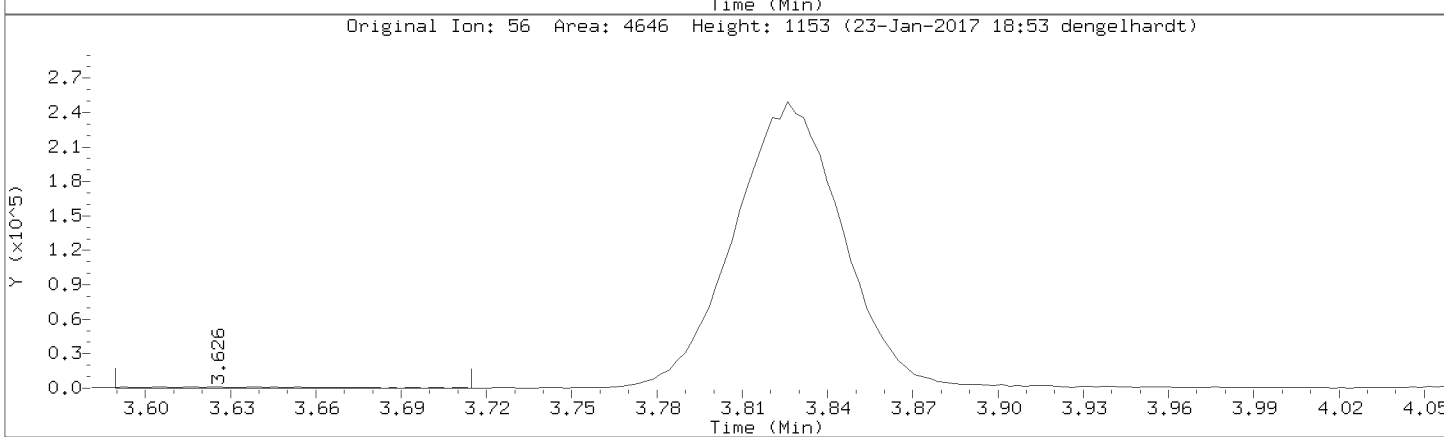
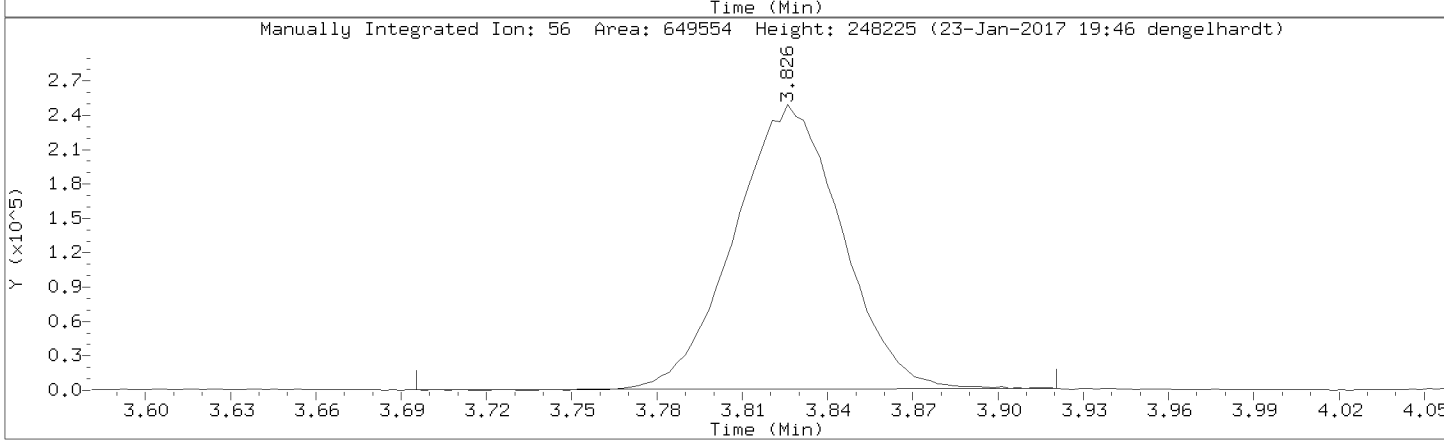
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: 2,2,4-Trimethylpentane Review Code: WP
CAS Number: 540-84-1









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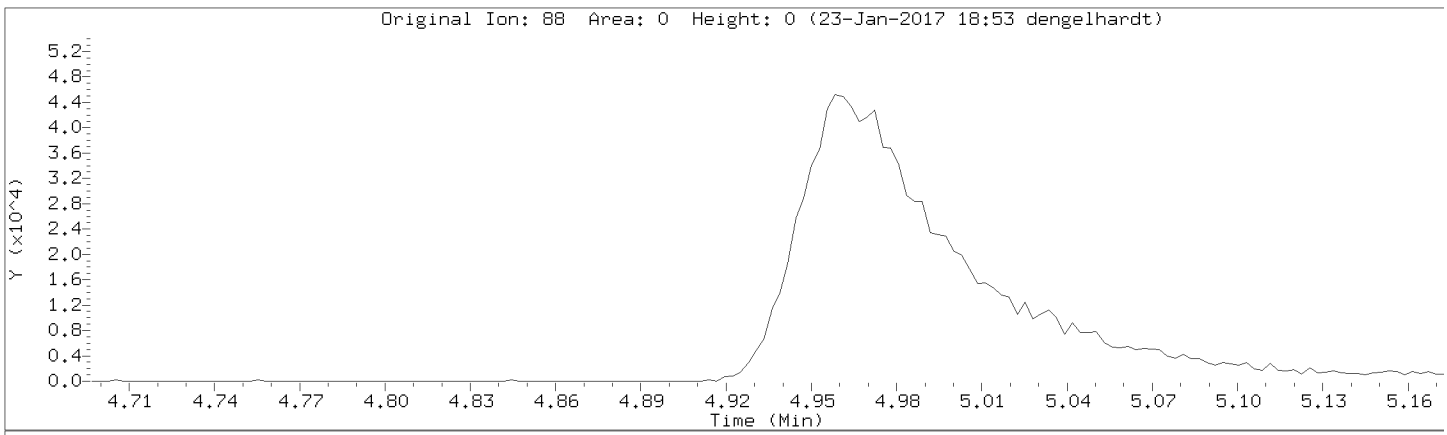
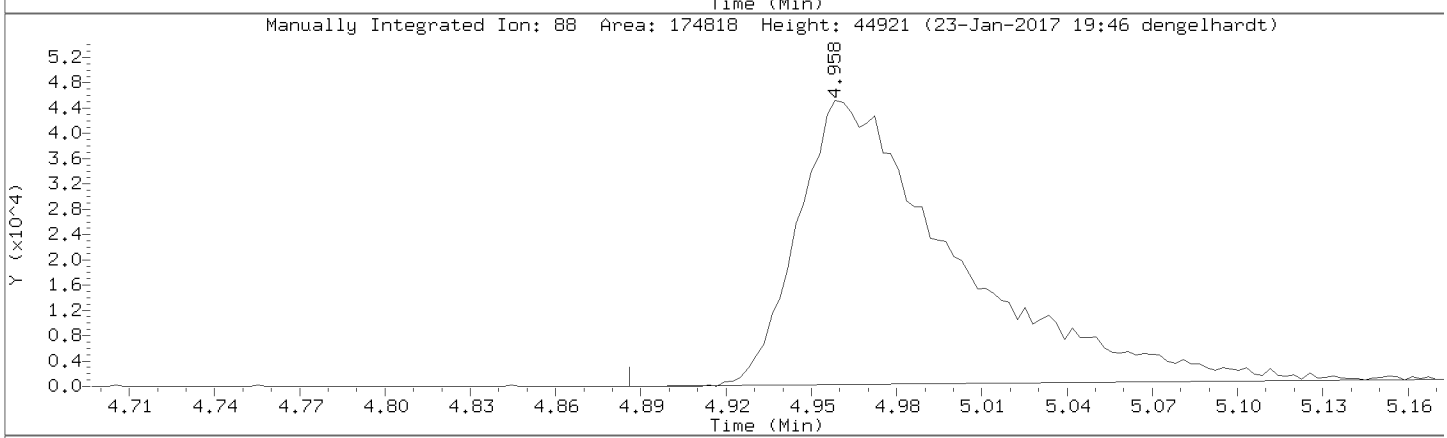
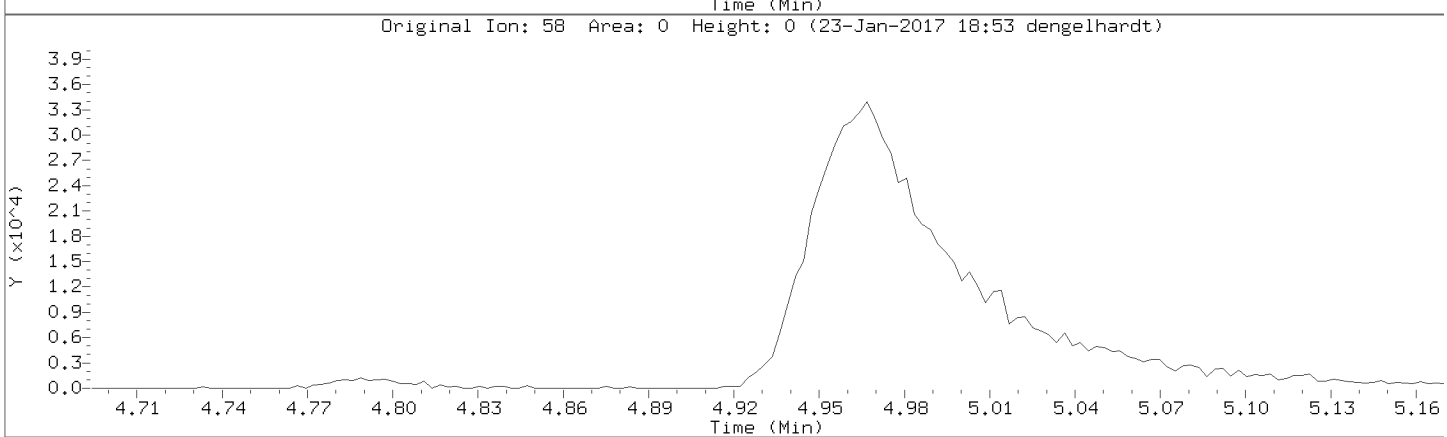
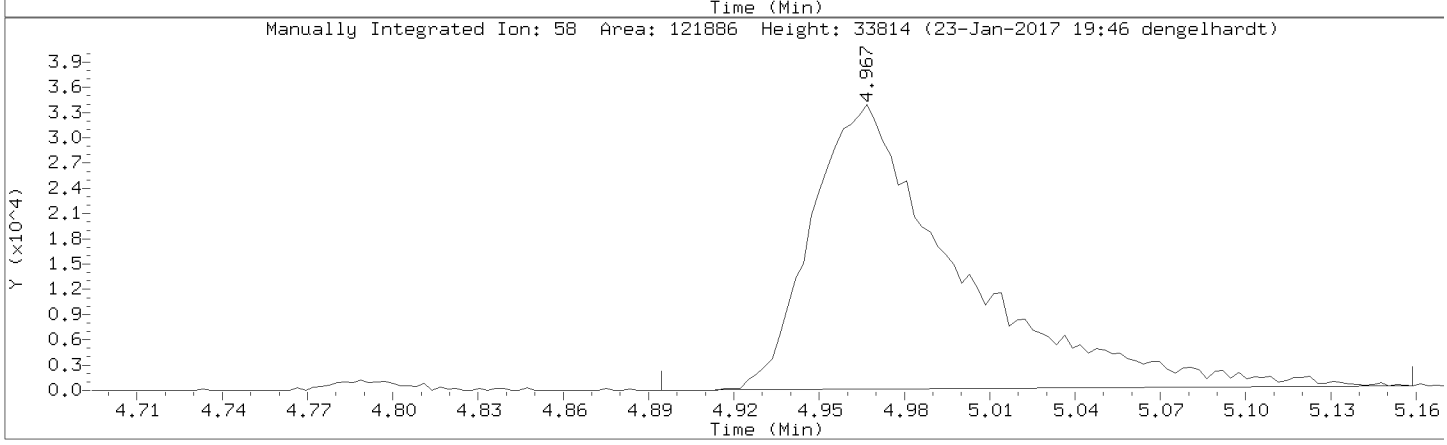
Injection Date: 23-JAN-2017 01:44
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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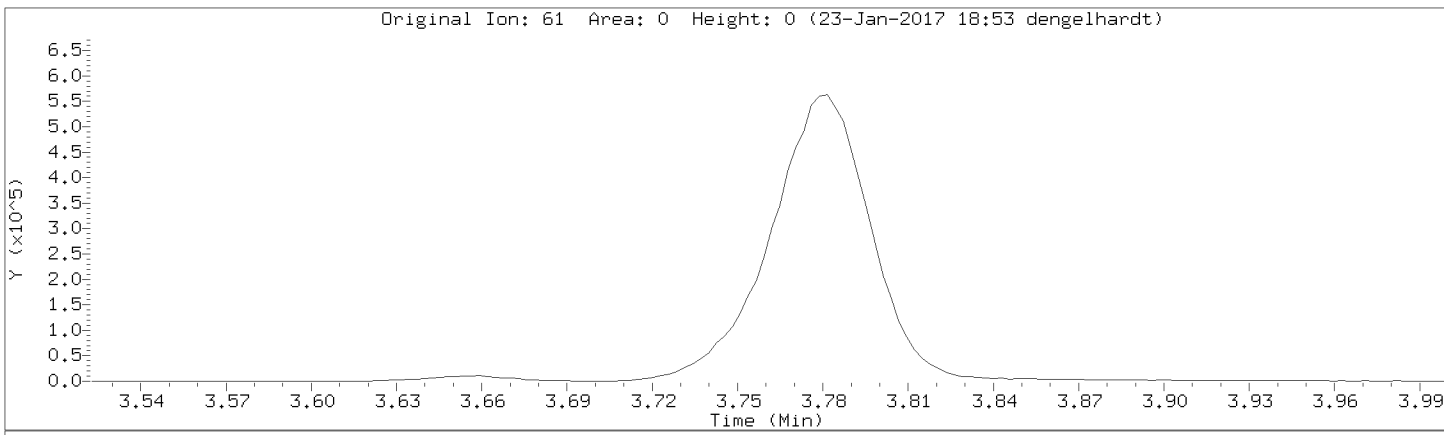
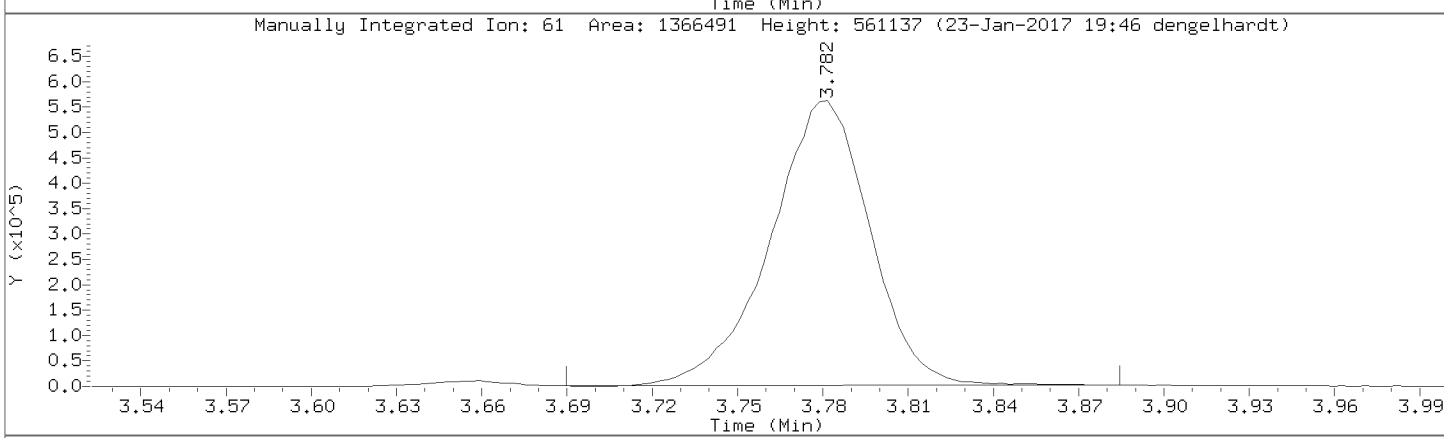
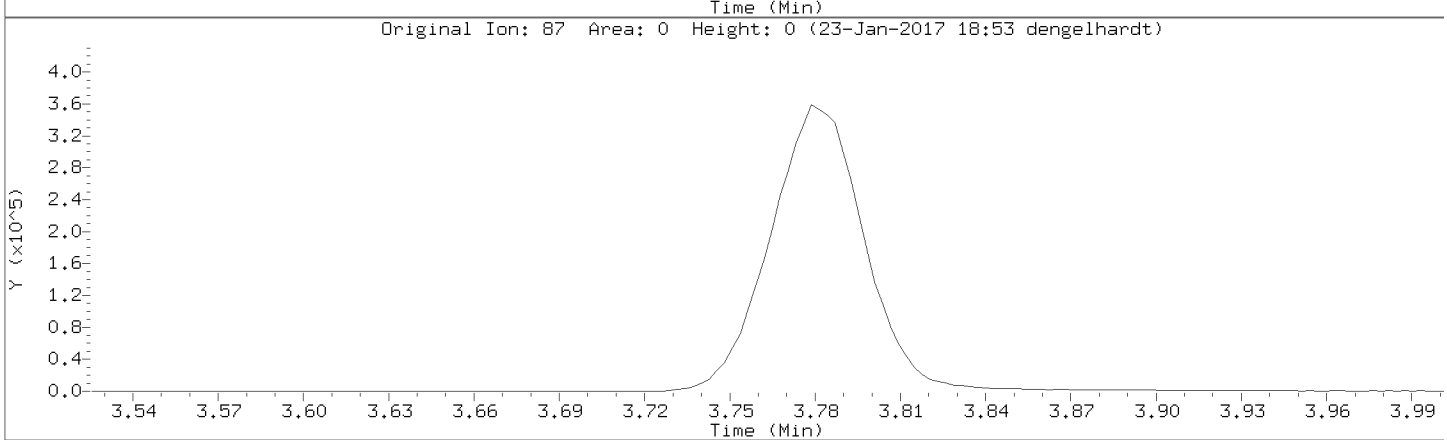
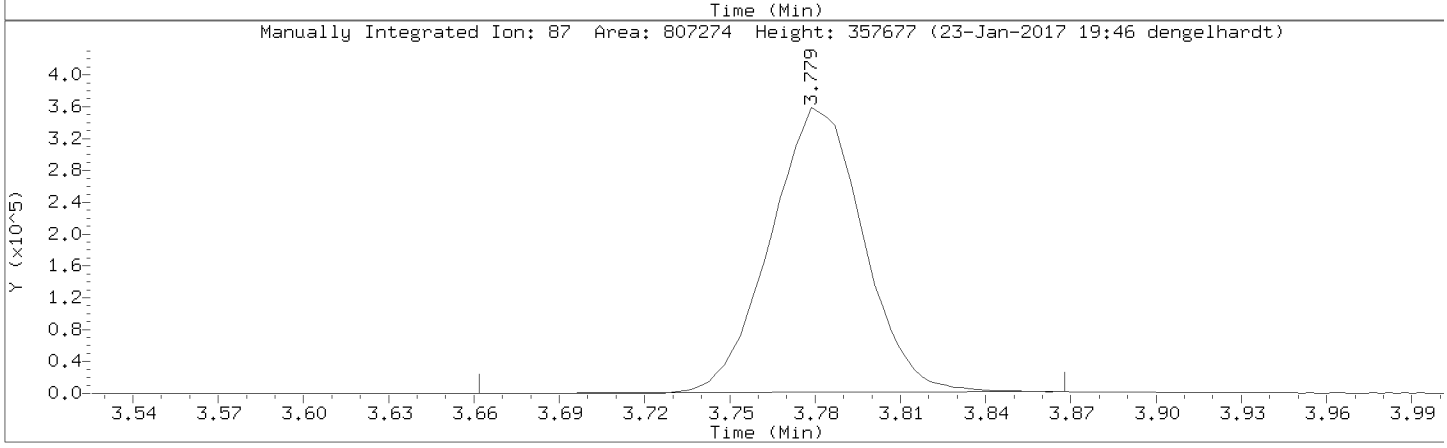
Injection Date: 23-JAN-2017 01:44
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: isopropyl acetate Review Code: NI
CAS Number: 108-21-4









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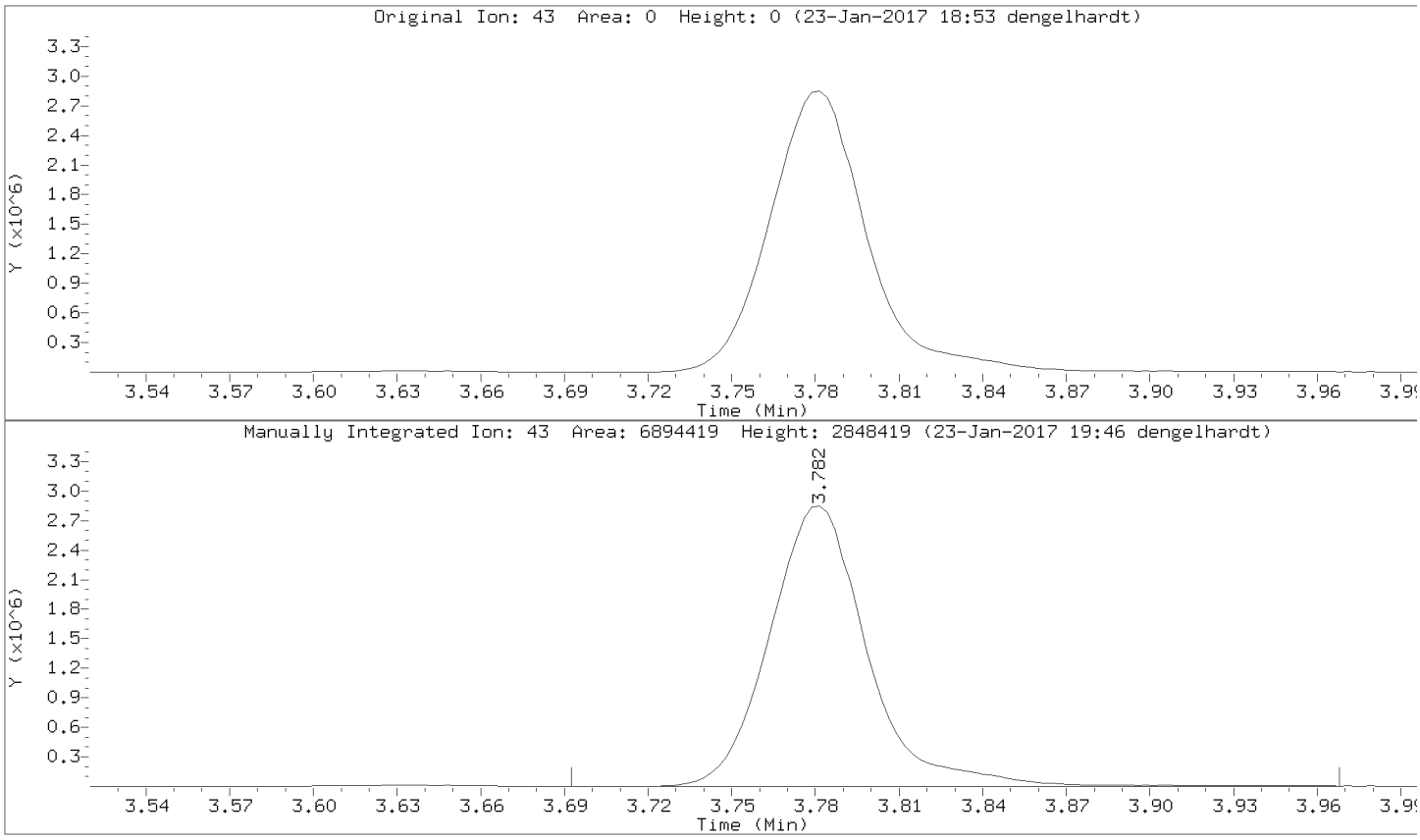
Lab Sample ID: 8260-CAL8



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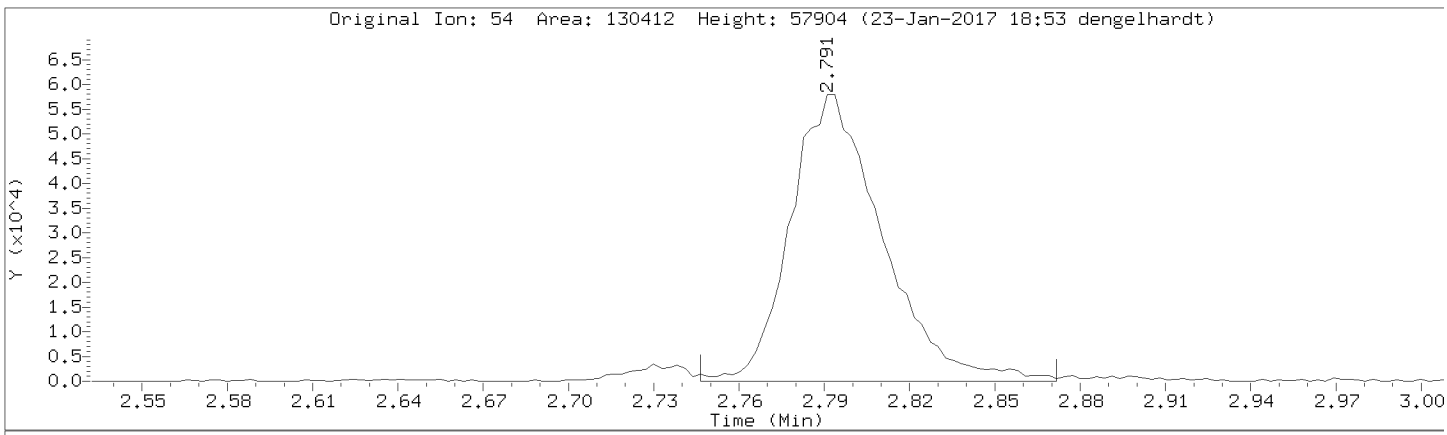
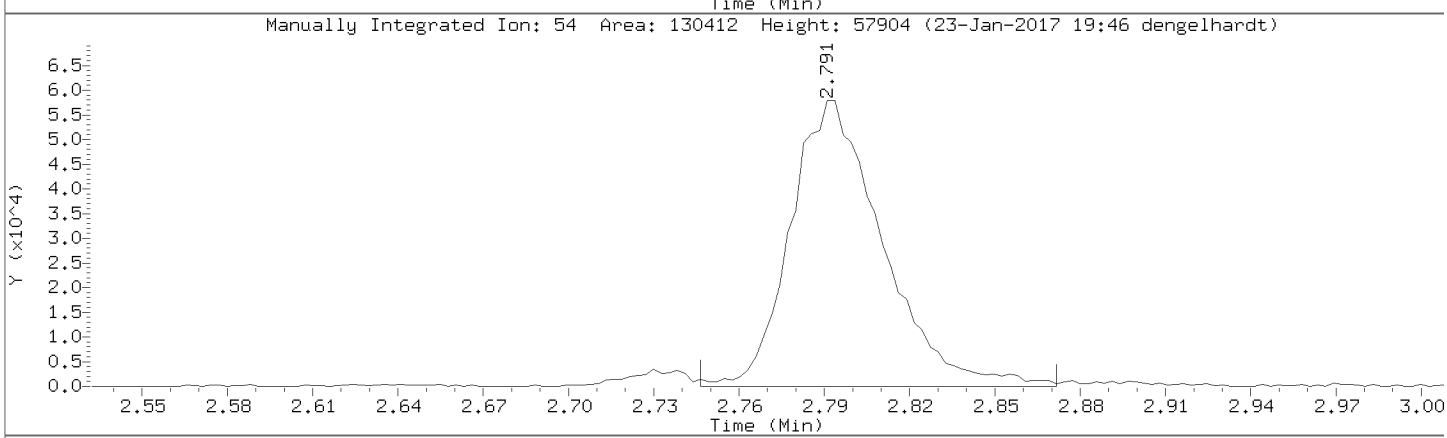
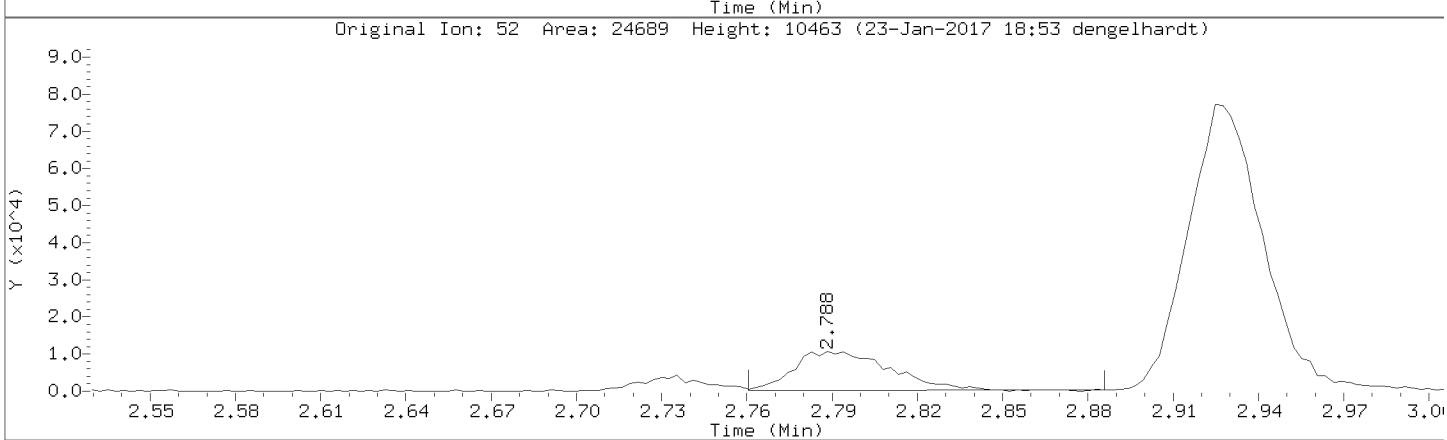
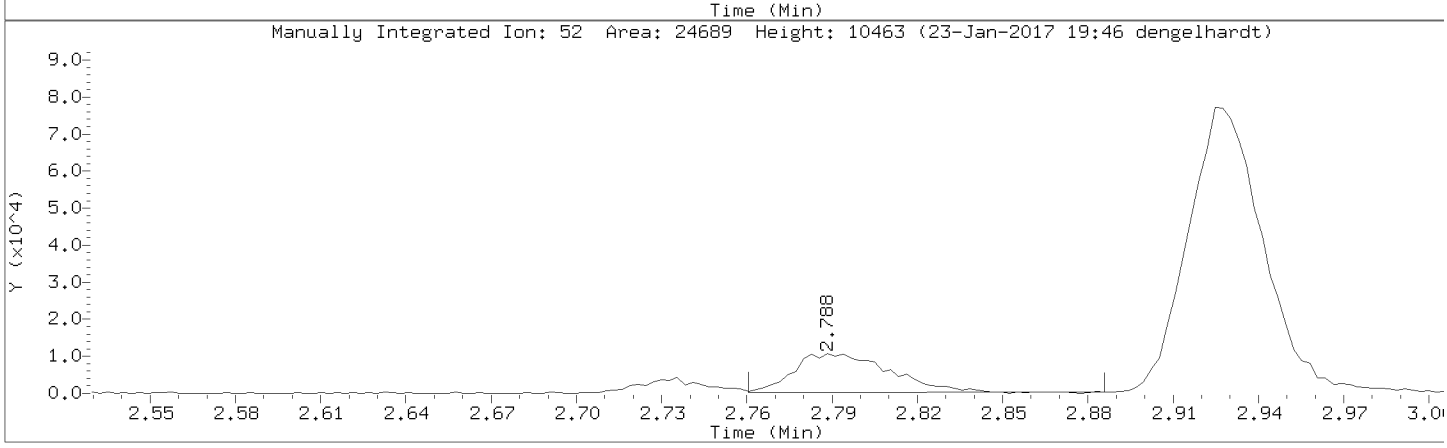
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0









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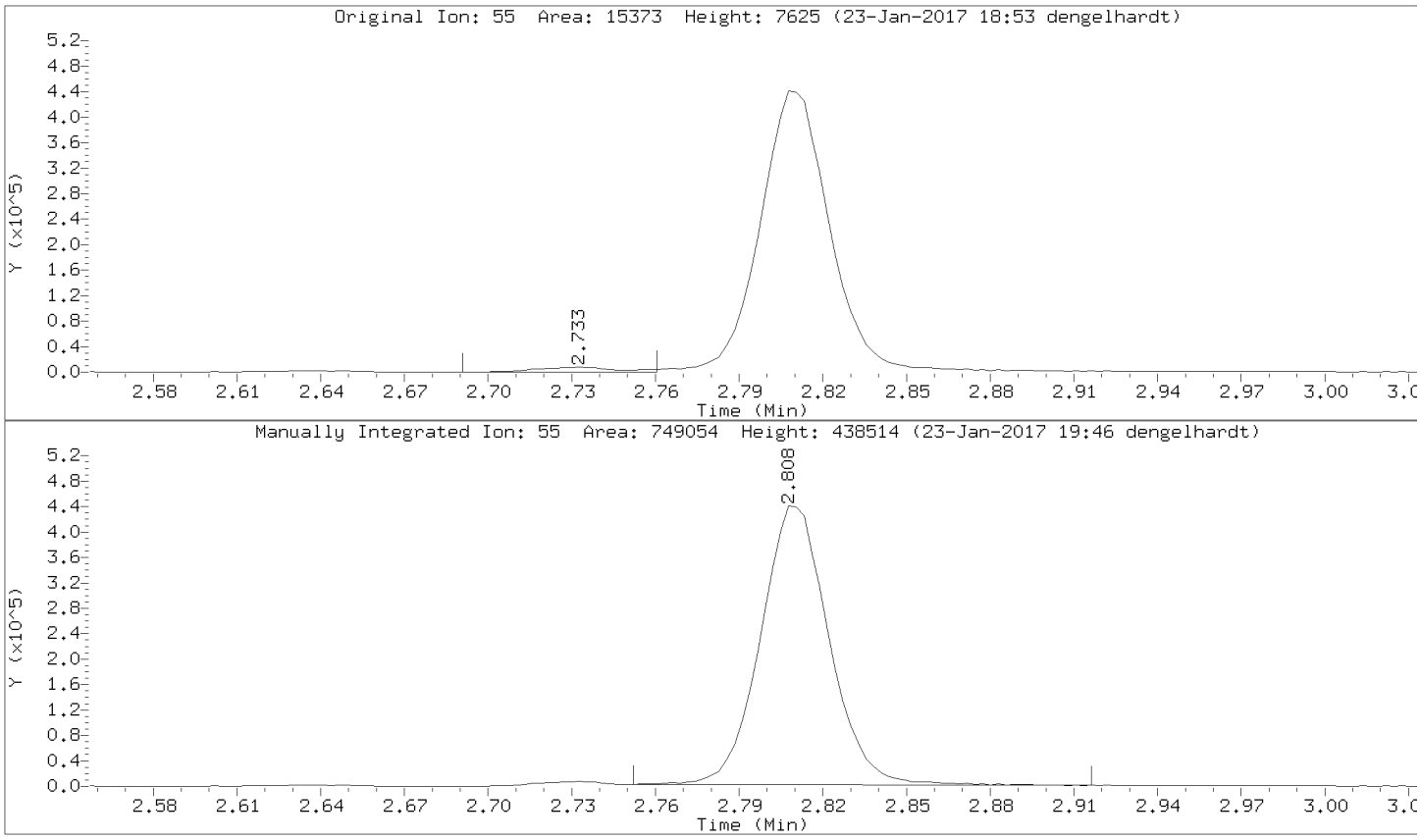
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8



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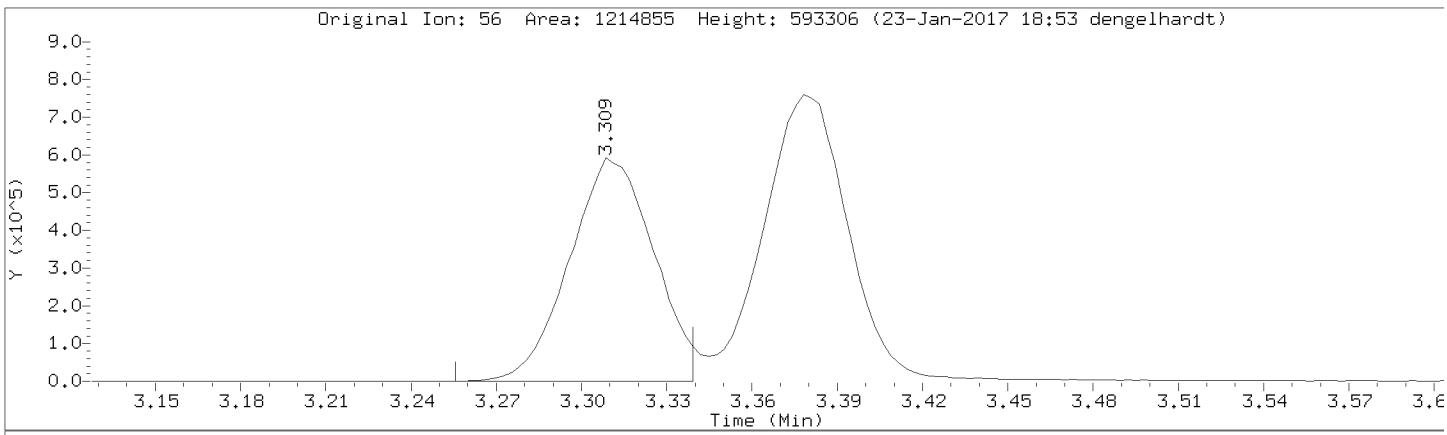
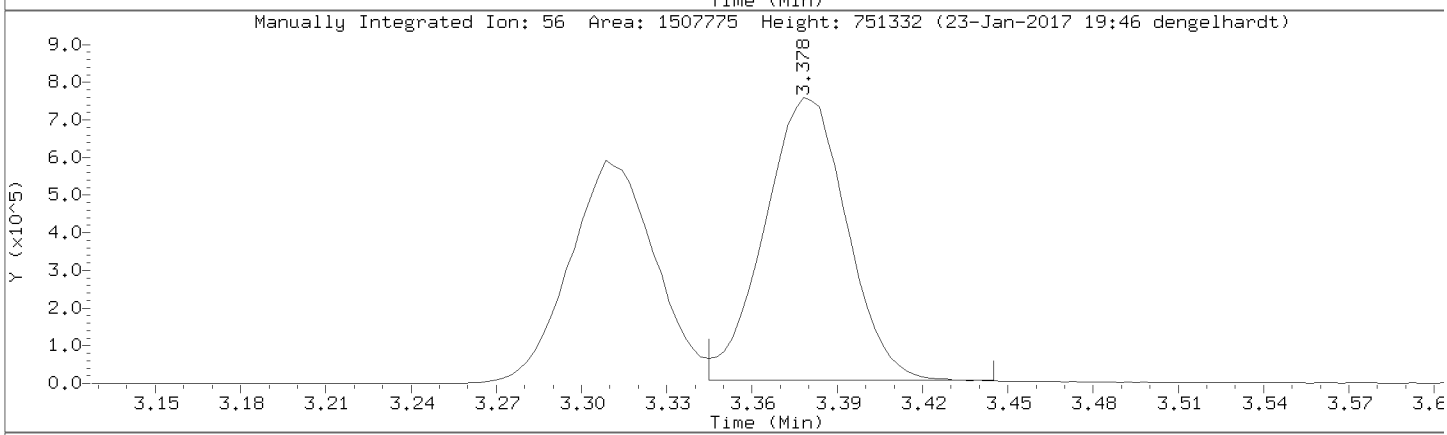
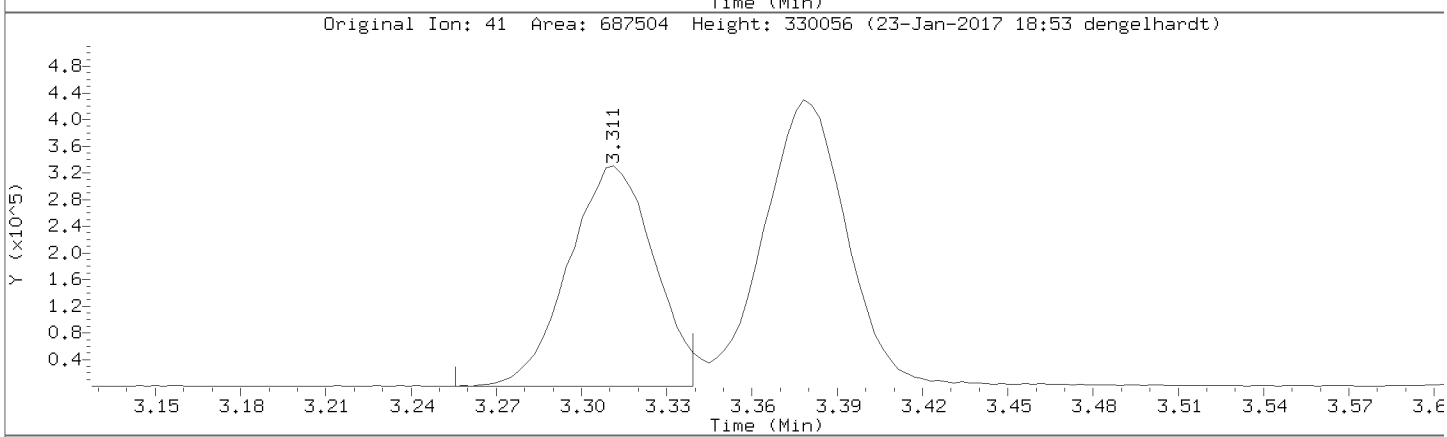
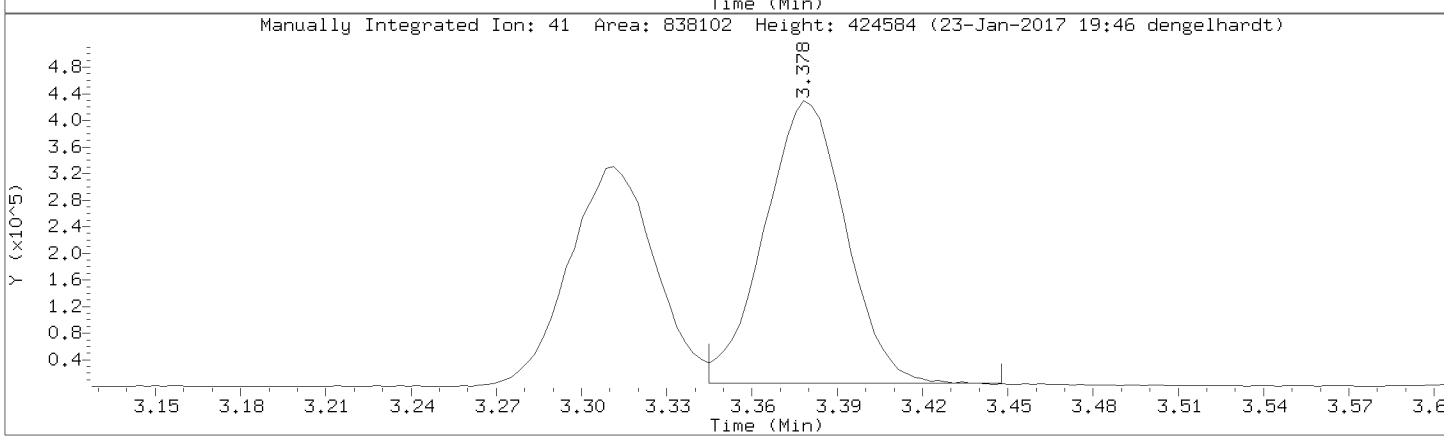
Injection Date: 23-JAN-2017 01:44
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: n-butyl chloride Review Code: WP
CAS Number: 109-69-3









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Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b01cal1.d
Lab Smp Id: 8260-CAL1,140426:0 Client Smp ID: 8260-CAL1,140426:0
Inj Date : 22-JAN-2017 22:10
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal1,140426:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 54 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)		REVIEW C
1 Dichlorodifluoromethane	85	0.885	0.882	(0.217)	329	0.50000		(QM)	NI
2 Chloromethane	50	0.982	0.990	(0.241)	1339	0.50000		(QM)	WP
3 Vinyl Chloride	62	1.007	1.007	(0.247)	1079	0.50000		(QM)	NI
4 Bromomethane	94	1.152	1.149	(0.283)	933	0.50000		(QM)	NI
5 Chloroethane	64	1.199	1.193	(0.294)	931	0.50000		(QM)	NI
6 Trichlorofluoromethane	101	1.302	1.305	(0.320)	1148	0.50000		(Q)	
7 Diethyl ether	74	1.430	1.427	(0.351)	778	0.50000		(QM)	NI
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.354)	2176	0.50000		(QM)	GT
9 Acrolein	56	1.502	1.500	(0.369)	2796	10.0000		(Q)	
10 1,1,2trichlorotrifluoroethane	101	1.550	1.547	(0.380)	1193	0.50000		(QM)	NI
11 1,1-Dichloroethene	96	1.553	1.550	(0.381)	1500	0.50000		(QM)	GT
12 Acetone	43	1.561	1.564	(0.383)	3579	2.50000		(QM)	GT
13 Iodomethane	142	1.639	1.636	(0.402)	571	1.00000		(QM)	NI
14 Carbon Disulfide	76	1.683	1.683	(0.413)	3876	0.50000		(Q)	
15 Methyl Acetate	43	1.731	1.728	(0.425)	3143	0.50000		(QM)	NI
16 Acetonitrile	39	1.747	1.742	(0.429)	2310	0.50000		(QM)	LT
17 allyl chloride	41	1.742	1.742	(0.427)	3449	1.00000		(QM)	LT
18 Methylene Chloride	84	1.817	1.817	(0.446)	3043	0.50000		(QM)	LT
19 tert-Butyl Alcohol	59	1.853	1.861	(0.455)	556	1.00000		(QM)	LT
20 Acrylonitrile	53	1.956	1.950	(0.480)	3790	2.00000		(QM)	LT
21 Methyl-tert-butyl ether	73	1.975	1.973	(0.485)	3742	0.50000		(QM)	LT
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.486)	2087	0.50000		(Q)	
23 n-Hexane	57	2.156	2.156	(0.529)	1823	0.50000		(QM)	LT

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.273	2.270	(0.558)	5874	2.00000	(QM)	LT
	25 1,1-Dichloroethane	63	2.276	2.279	(0.558)	2057	0.50000	(QM)	NI
	26 Chloroprene	53	2.329	2.331	(0.571)	1897	0.50000	(QM)	NI
	147 Ethyl acetate	88	2.777	2.774	(0.681)	613	4.00000	(QM)	NI
	27 2-Butanone	72	2.732	2.732	(0.670)	693	2.50000	(QM)	NI
	28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.673)	1478	0.50000	(Q)	
	29 2,2-Dichloropropane	77	2.732	2.746	(0.670)	1902	0.50000	(QM)	NI
	30 Propionitrile	54	2.802	2.788	(0.687)	575	0.50000	(QM)	NI
	31 Methacrylonitrile	41	2.944	2.932	(0.722)	1819	0.50000	(QM)	NI
	32 Bromochloromethane	49	2.969	2.971	(0.728)	1089	0.50000	(QM)	NI
	33 Tetrahydrofuran	42	3.010	2.985	(0.739)	2186	0.50000	(QM)	NI
	34 Chloroform	83	3.072	3.077	(0.754)	2690	0.50000	(Q)	
$	35 Dibromofluoromethane (S)	113	3.250	3.252	(0.797)	69413	50.0000	(Q)	
	36 1,1,1-Trichloroethane	97	3.241	3.247	(0.795)	2094	0.50000	(QM)	NI
	37 cyclohexane	56	3.317	3.325	(0.814)	2751	0.50000	(QM)	WP
	146 n-butyl chloride	56	3.386	3.325	(0.831)	3262	0.50000	(QM)	LT
	38 Carbon Tetrachloride	117	3.422	3.419	(0.840)	1533	0.50000	(QM)	NI
	39 1,1-Dichloropropene	75	3.433	3.430	(0.842)	1491	0.50000	(QM)	NI
	40 Benzene	78	3.670	3.667	(0.900)	4624	0.50000	(QM)	NI
	41 1,2-Dichloroethane	62	3.759	3.756	(0.922)	1663	0.50000	(QM)	NI
	42 2,2,4-Trimethylpentane	57	3.837	3.839	(0.941)	3677	0.50000	(QM)	NI
	43 Isobutyl alcohol	43	3.792	3.606	(0.930)	11771	0.50000	(QM)	NI
	148 Isopropyl acetate	61	3.784	3.784	(0.928)	2214	2.00000	(Q)	
*	44 Fluorobenzene	96	4.076	4.070	(1.000)	245124	50.0000		
	45 Trichloroethene	95	4.524	4.532	(1.110)	1346	0.50000	(QM)	NI
	46 Methylcyclohexane	55	4.791	4.799	(1.175)	2662	0.50000	(QM)	NI
	47 1,2-Dichloropropane	63	4.852	4.849	(1.190)	1074	0.50000	(QM)	NI
	48 Dibromomethane	93	4.950	4.947	(1.214)	1003	0.50000	(QM)	NI
	49 Methyl methacrylate	69	4.978	4.966	(1.221)	892	0.50000	(QM)	NI
	50 1,4-Dioxane	88	4.961	4.952	(1.217)	312	10.0000	(QM)	NI
	51 Bromodichloromethane	83	5.181	5.175	(1.271)	1810	0.50000	(QM)	NI
	52 2-Chloroethyl vinyl ether	63	5.548	5.537	(0.753)	905	1.00000	(QM)	NI
	53 cis-1,3-Dichloropropene	75	5.687	5.678	(0.772)	1778	0.50000	(Q)	
	54 4-Methyl-2-Pentanone	43	5.865	5.854	(0.796)	6199	2.50000	(Q)	
$	55 Toluene-d8	98	5.954	5.951	(0.808)	258803	50.0000	(Q)	
	56 Toluene	91	6.024	6.023	(0.817)	5478	0.50000	(Q)	
	57 trans-1,3-Dichloropropene	75	6.327	6.318	(0.858)	1548	0.50000	(QM)	NI
	58 Ethyl Methacrylate	69	6.424	6.407	(0.872)	2342	0.50000	(QM)	NI
	59 1,1,2-Trichloroethane	83	6.530	6.516	(0.886)	1051	0.50000	(QM)	NI
	60 Tetrachloroethene	166	6.566	6.566	(0.891)	1401	0.50000	(QM)	NI
	61 1,3-Dichloropropane	76	6.664	6.666	(0.904)	1614	0.50000	(Q)	
	62 2-Hexanone	43	6.758	6.741	(0.917)	4057	2.50000	(QM)	NI
	63 Dibromochloromethane	129	6.872	6.864	(0.932)	1247	0.50000	(Q)	
	64 1,2-Dibromoethane	107	6.961	6.956	(0.945)	1113	0.50000	(Q)	
*	65 Chlorobenzene-d5	117	7.370	7.367	(1.000)	211519	50.0000	(Q)	
	66 Chlorobenzene	112	7.395	7.392	(1.003)	3418	0.50000	(Q)	
	67 1,1,1,2-Tetrachloroethane	131	7.482	7.481	(1.015)	1158	0.50000	(Q)	
	68 Ethylbenzene	106	7.493	7.487	(1.017)	1851	0.50000	(Q)	
	69 m&p-Xylene	106	7.604	7.598	(1.032)	4282	1.00000	(Q)	
	70 o-Xylene	106	7.902	7.899	(1.072)	2032	0.50000	(Q)	
	71 Styrene	104	7.929	7.918	(1.076)	3178	0.50000	(Q)	
	72 Bromoform	173	8.057	8.057	(0.883)	1179	0.50000	(QM)	NI
	73 Isopropylbenzene	105	8.185	8.182	(1.111)	5752	0.50000	(QM)	LT
$	74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	98409	50.0000	(Q)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)		REVIEW C
149 n-amyl acetate	70	8.080	8.071	(1.096)	3498	2.00000		(QM)	LT
75 Bromobenzene	77	8.405	8.405	(1.140)	2656	0.50000		(Q)	
76 1,1,2,2-Tetrachloroethane	83	8.428	8.425	(0.924)	1685	0.50000		(QM)	NI
77 trans-1,4-Dichloro-2-butene	53	8.455	8.450	(1.147)	672	0.50000		(QM)	NI
78 1,2,3-Trichloropropane	110	8.461	8.458	(0.928)	518	0.50000		(QM)	NI
79 n-Propylbenzene	91	8.491	8.489	(0.931)	6006	0.50000		(QM)	NI
80 2-Chlorotoluene	91	8.547	8.544	(0.937)	4513	0.50000		(Q)	
81 1,3,5-Trimethylbenzene	105	8.625	8.622	(0.946)	4784	0.50000		(Q)	
82 4-Chlorotoluene	126	8.642	8.633	(0.948)	1395	0.50000		(Q)	
83 tert-Butylbenzene	119	8.839	8.834	(0.969)	5246	0.50000		(Q)	
84 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	5049	0.50000		(Q)	
85 sec-Butylbenzene	105	8.987	8.987	(0.985)	5738	0.50000		(Q)	
86 1,3-Dichlorobenzene	146	9.070	9.067	(0.995)	2780	0.50000		(Q)	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	4403	0.50000		(Q)	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	126318	50.0000		(Q)	
89 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	3634	0.50000		(Q)	
90 1,2-Dichlorobenzene	146	9.371	9.368	(1.027)	2830	0.50000		(Q)	
91 n-Butylbenzene	91	9.365	9.359	(1.027)	4035	0.50000		(QM)	LT
92 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	330	0.50000		(QM)	NI
93 1,2,4-Trichlorobenzene	180	10.375	10.372	(1.138)	1794	0.50000		(QM)	NI
94 Hexachlorobutadiene	225	10.450	10.453	(1.146)	551	0.50000		(QM)	NI
95 Naphthalene	128	10.548	10.533	(1.156)	5546	0.50000		(QM)	NI
96 1,2,3-Trichlorobenzene	180	10.673	10.664	(1.170)	1722	0.50000		(QM)	NI
97 2,methyl-naphthalene	142	11.243	11.226	(1.233)	2487	0.50000		(QM)	NI
98 1-Methylnaphthalene	142	11.357	11.349	(1.245)	2314	0.50000		(QM)	NI

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b01cal1.d

Date : 22-JAN-2017 22:10

Client ID: 8260-CAL1,140426:0

Instrument: 50mv2b.i

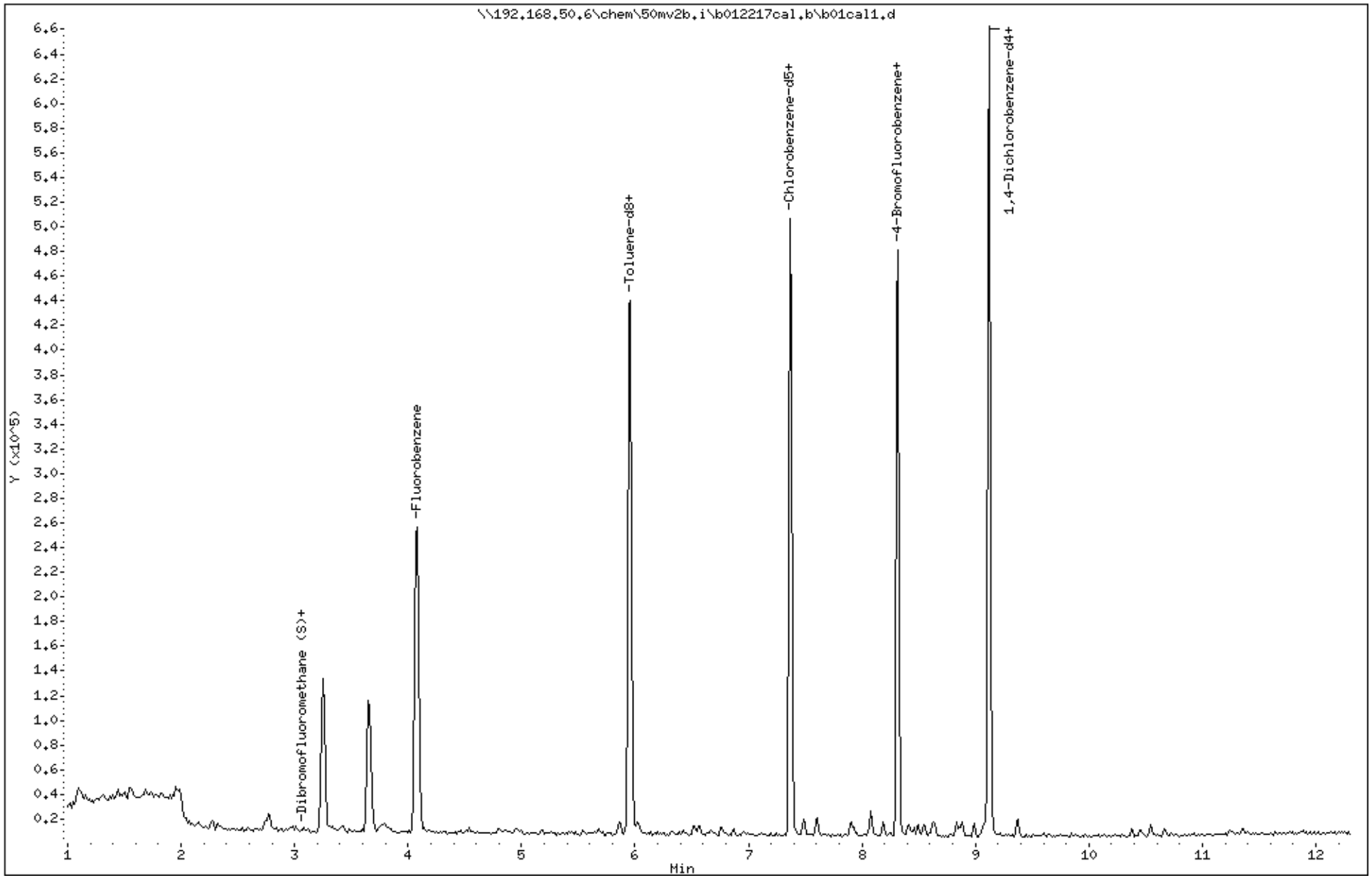
Sample Info: 8260-CAL1,140426:0

Purge Volume: 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



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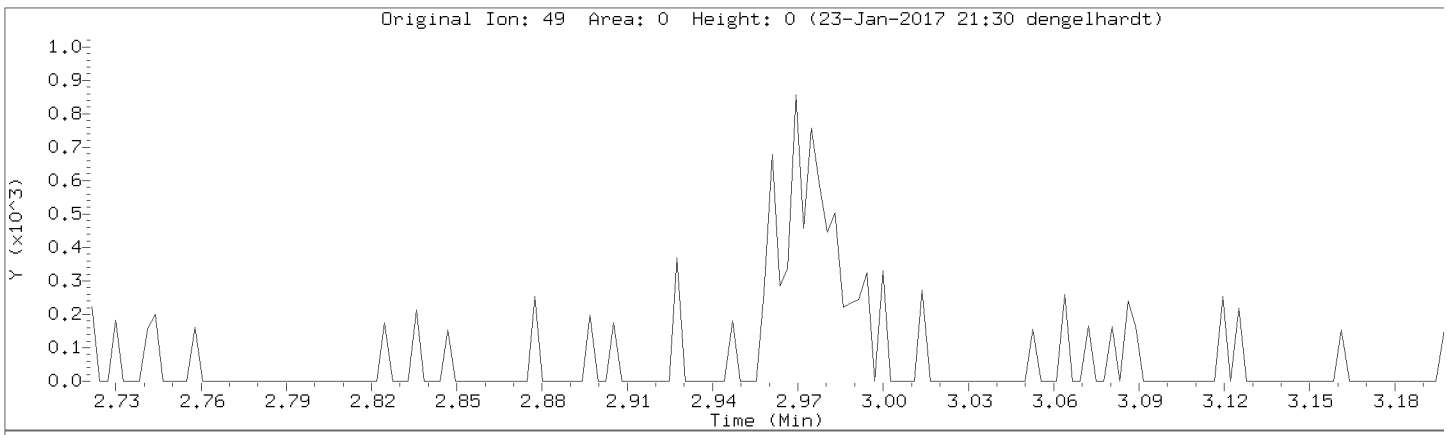
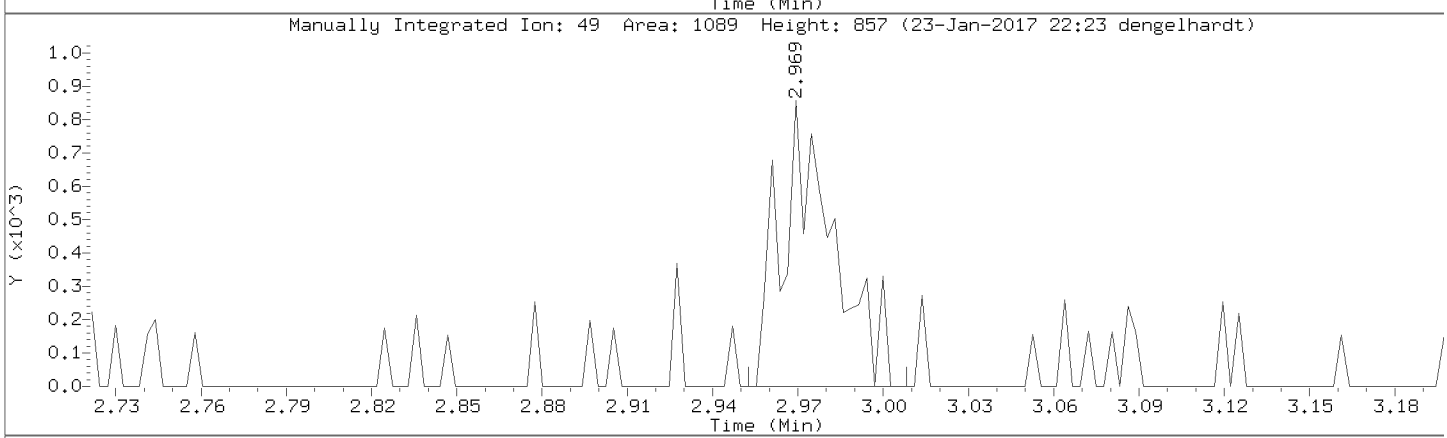
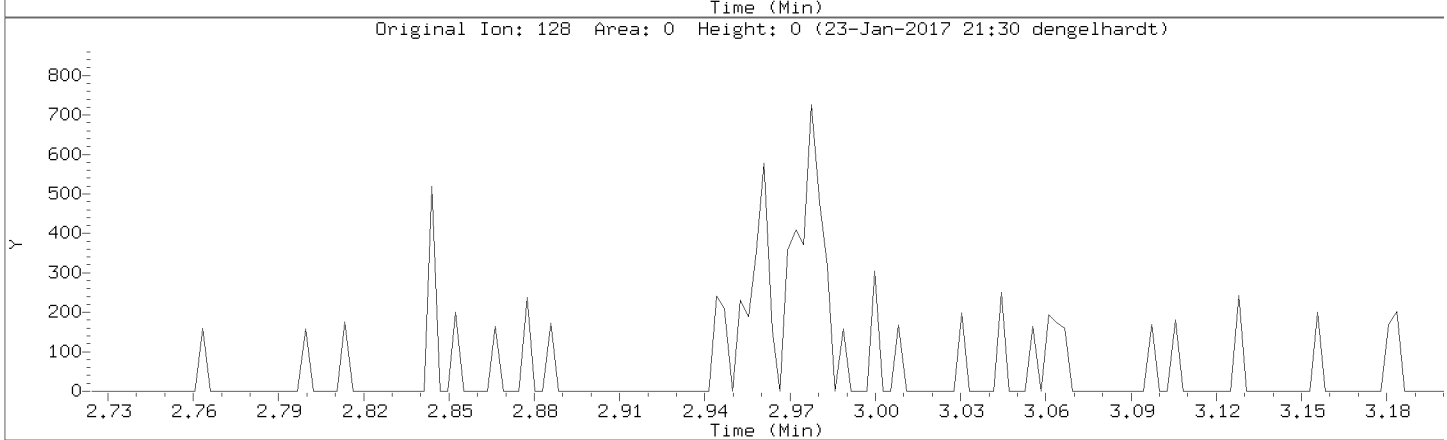
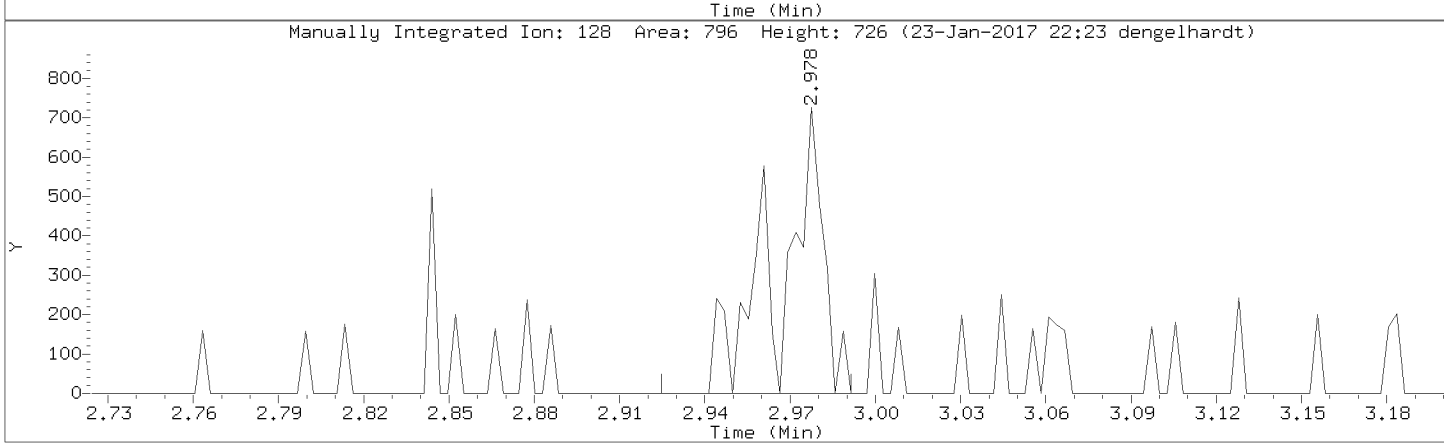
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromochloromethane Review Code: NI
CAS Number: 74-97-5









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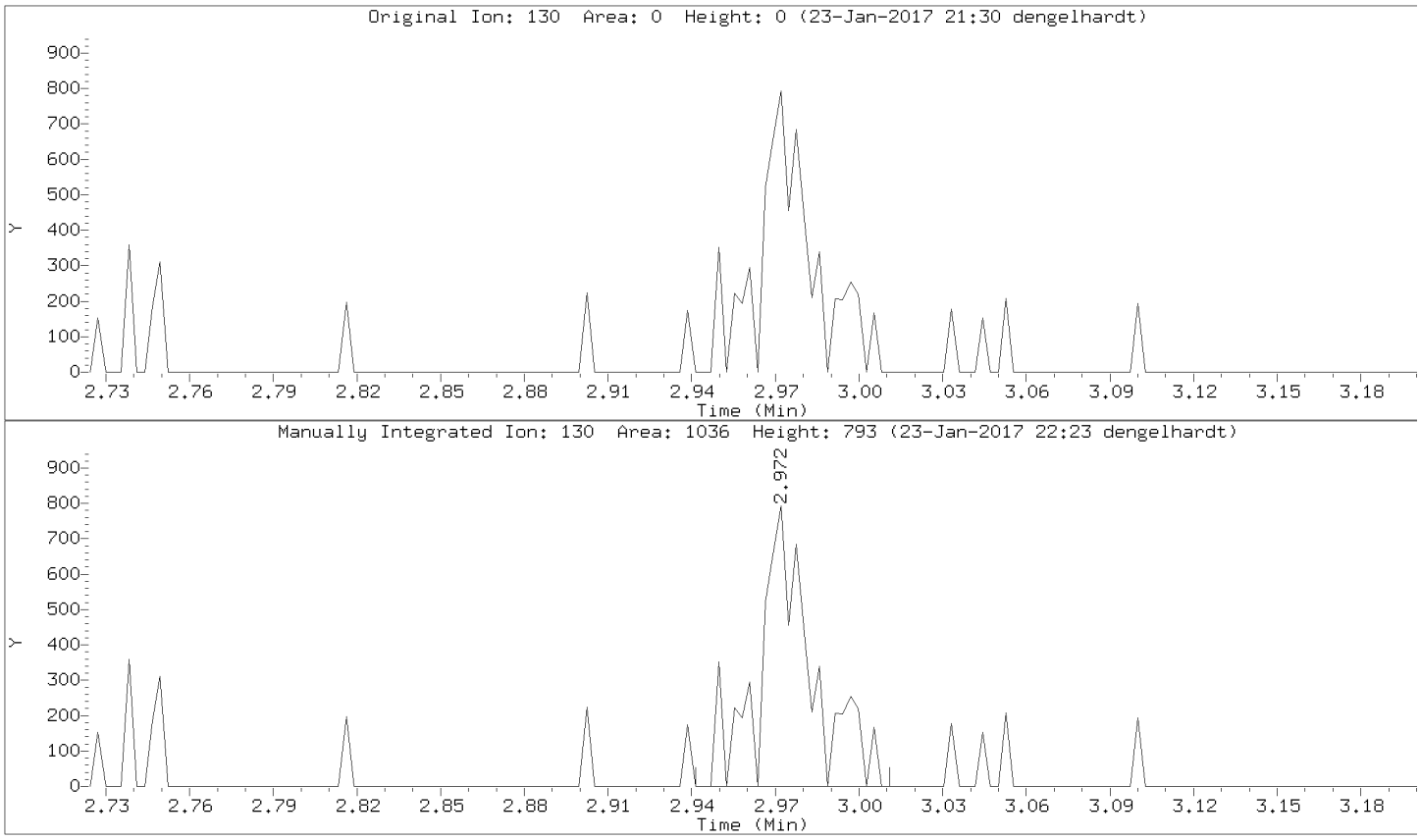
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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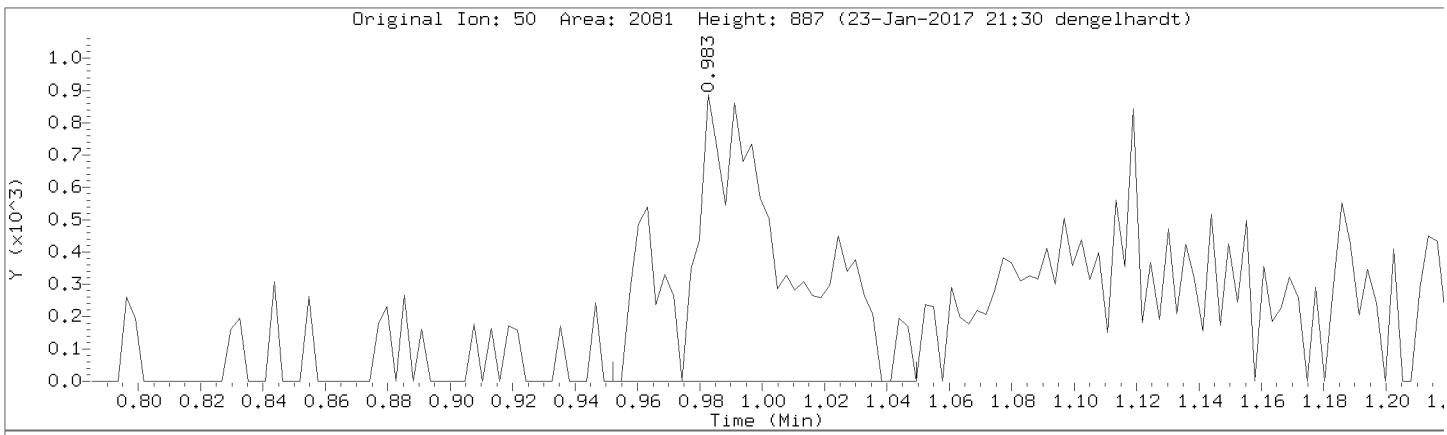
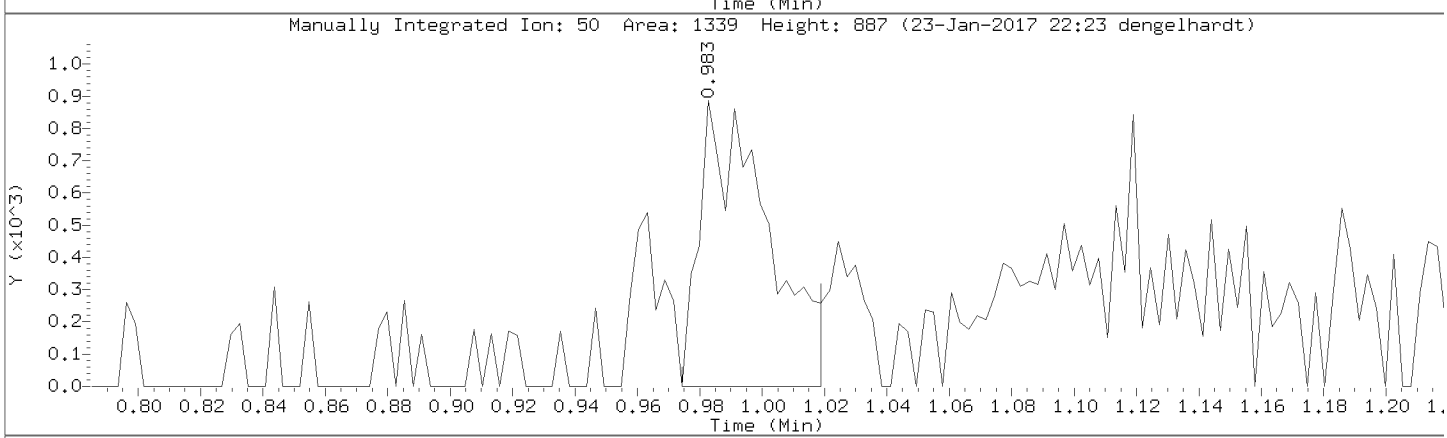
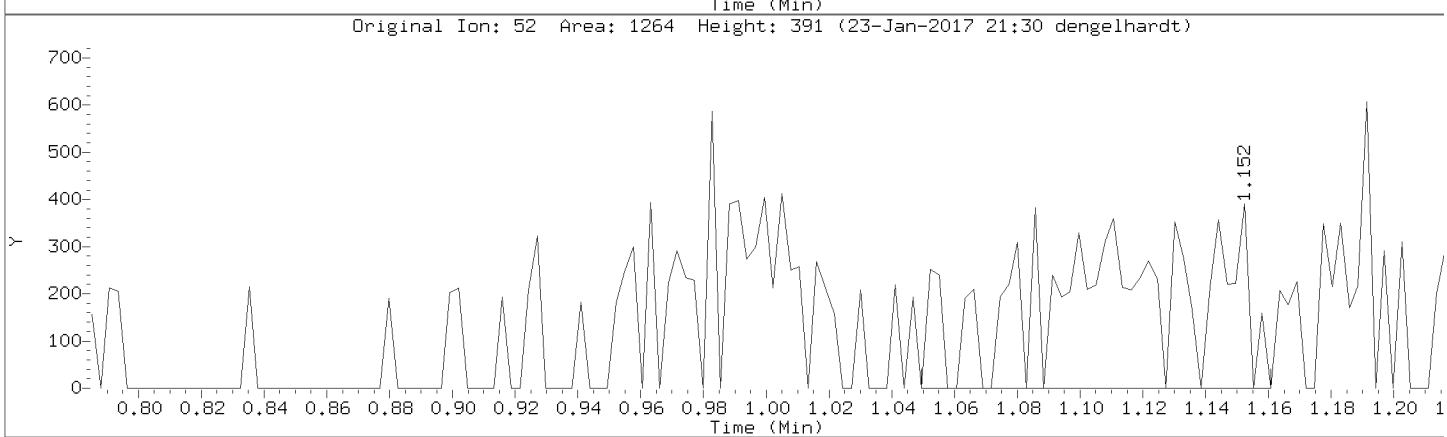
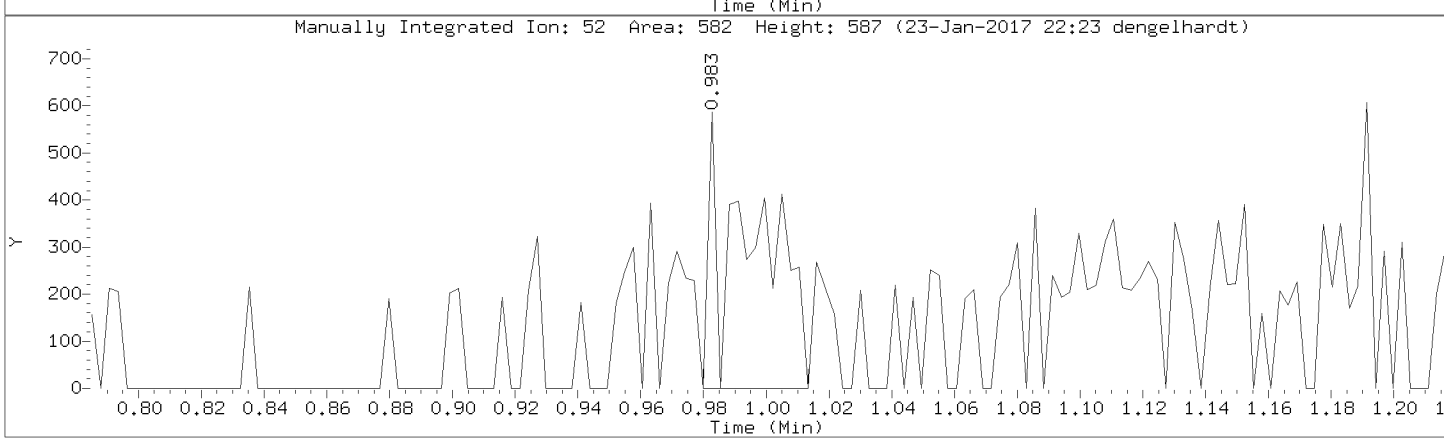
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloromethane Review Code: WP
CAS Number: 74-87-3









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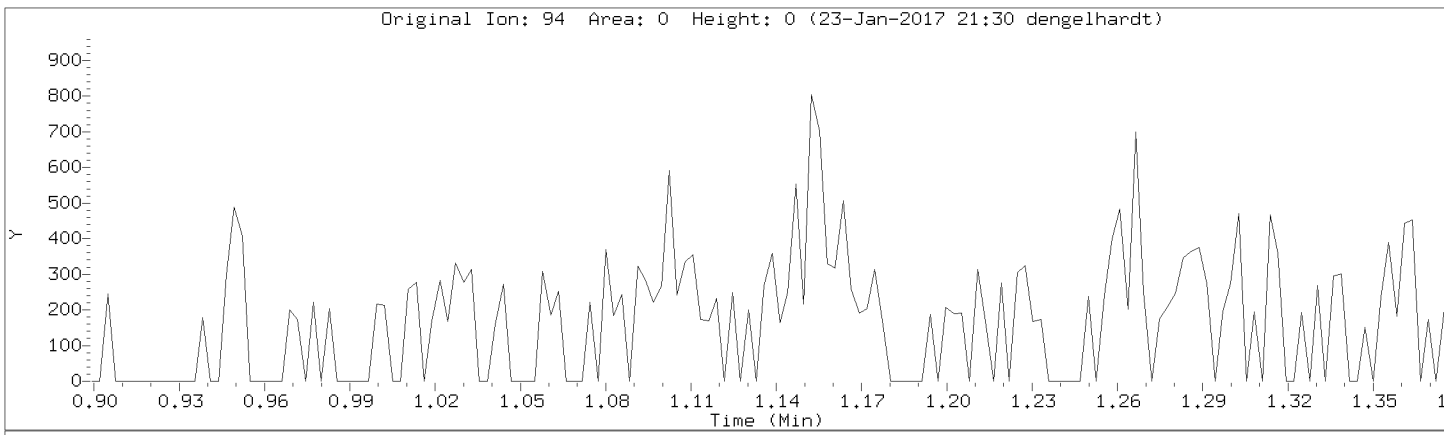
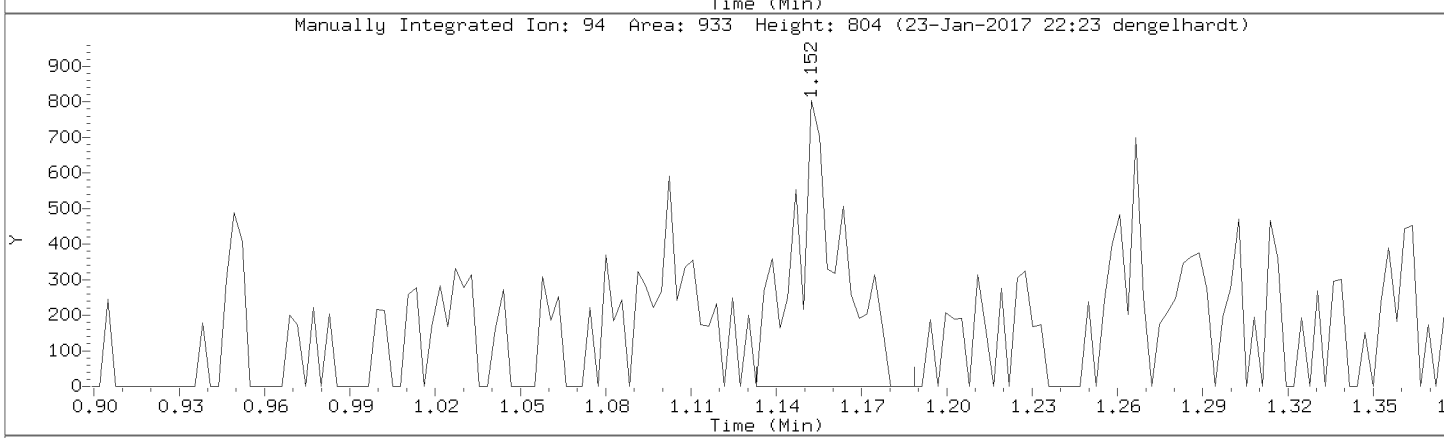
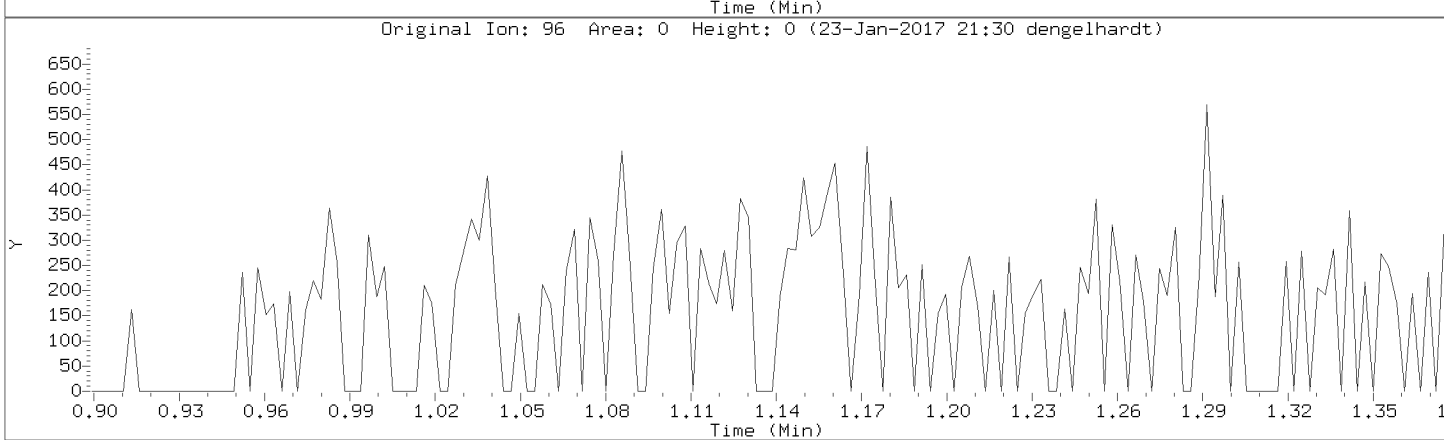
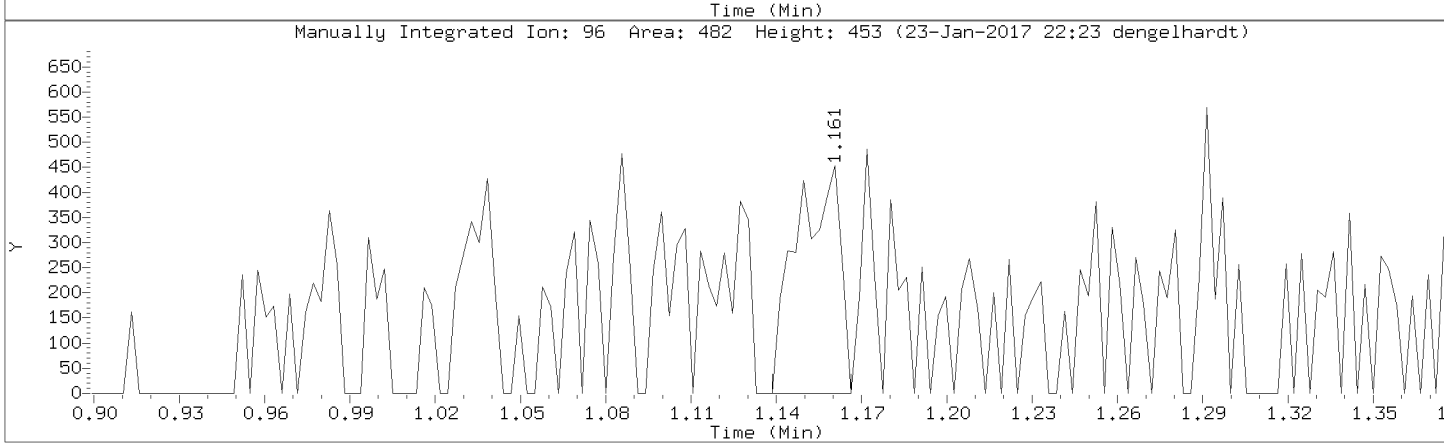
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromomethane Review Code: NI
CAS Number: 74-83-9









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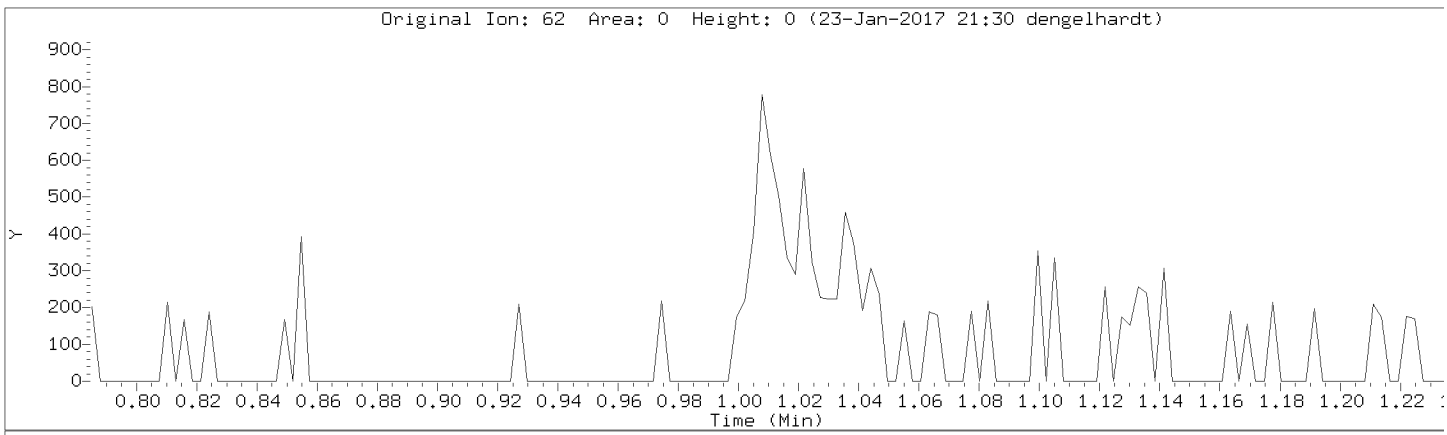
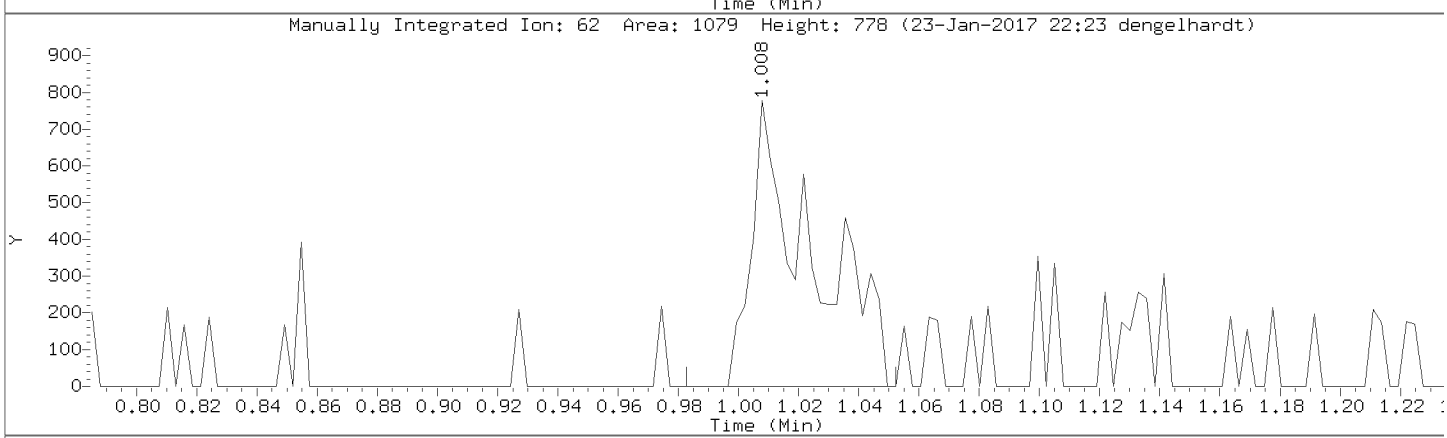
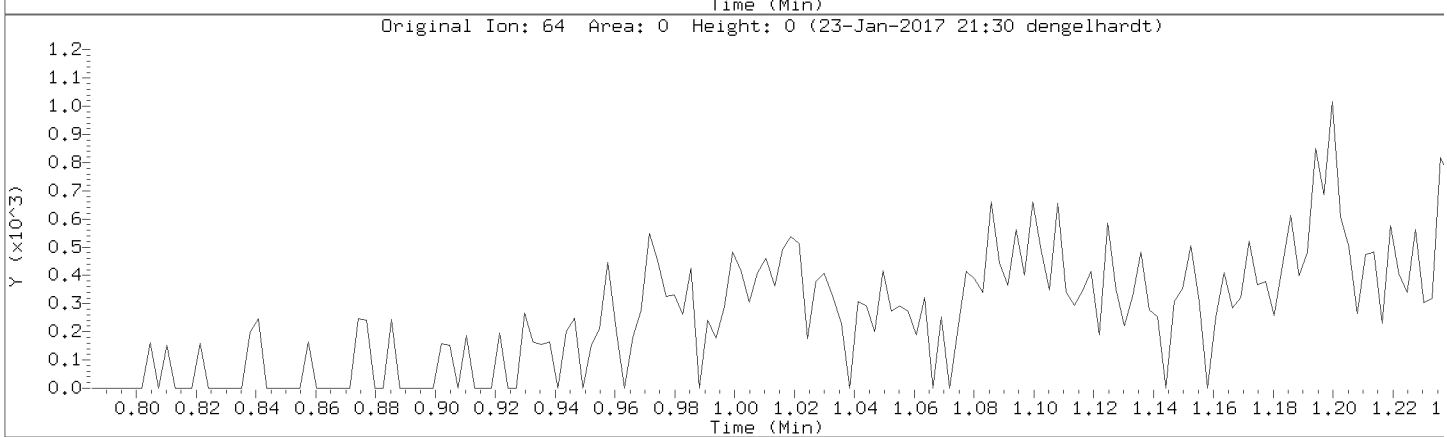
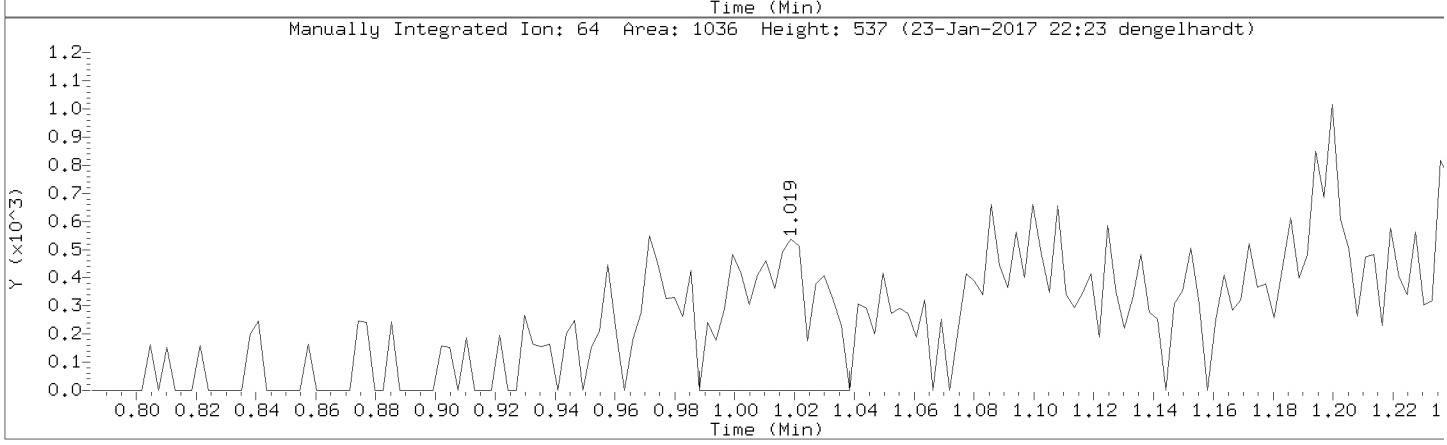
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4









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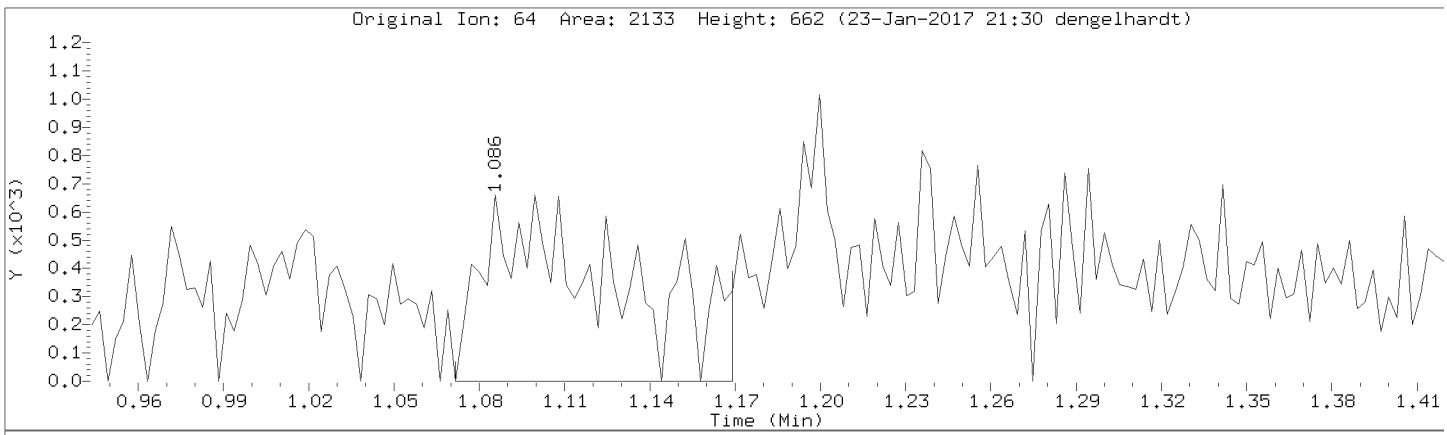
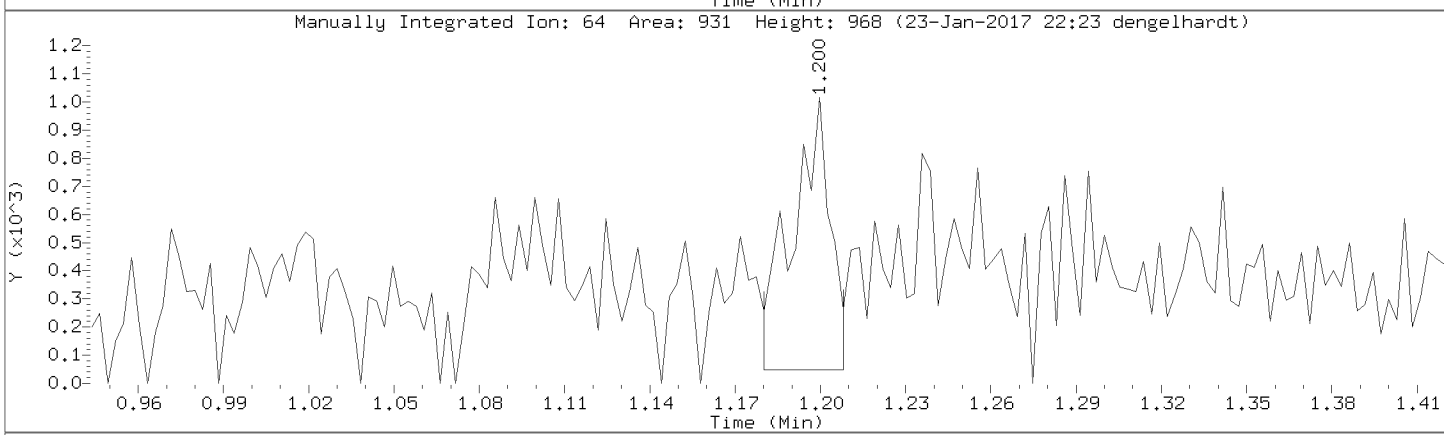
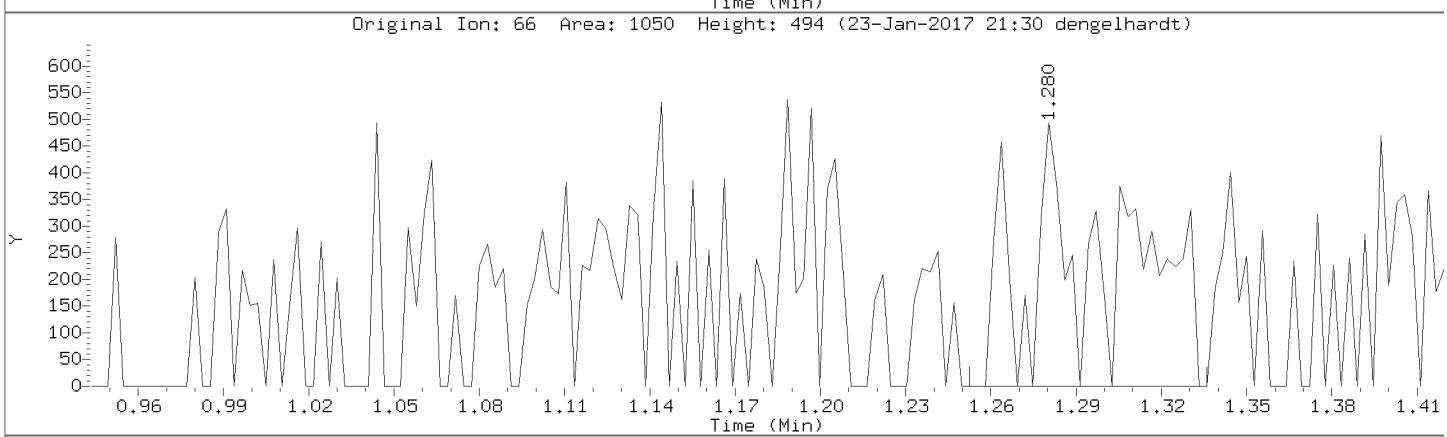
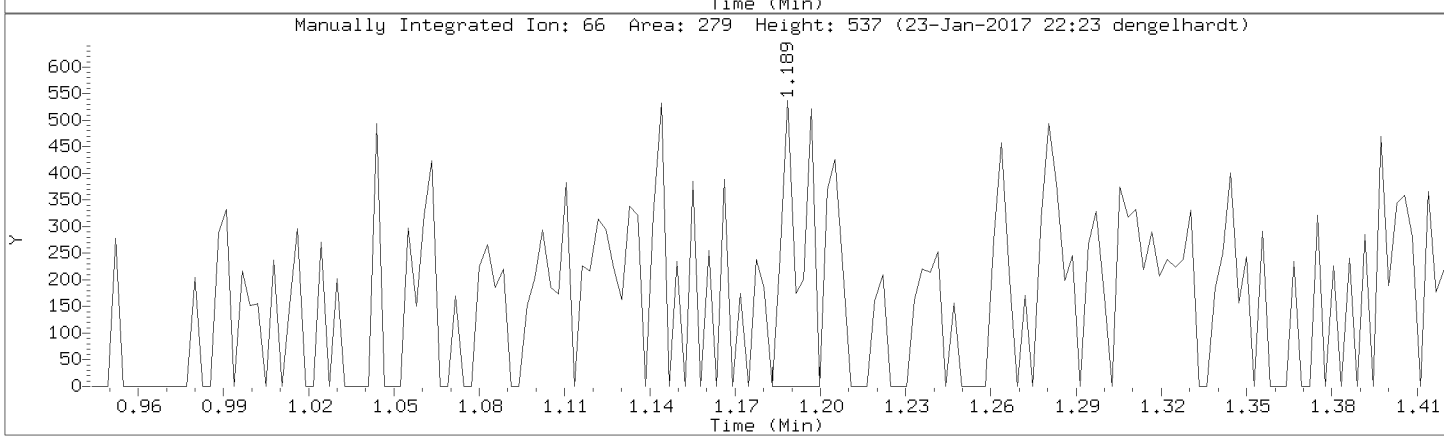
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloroethane Review Code: NI
CAS Number: 75-00-3









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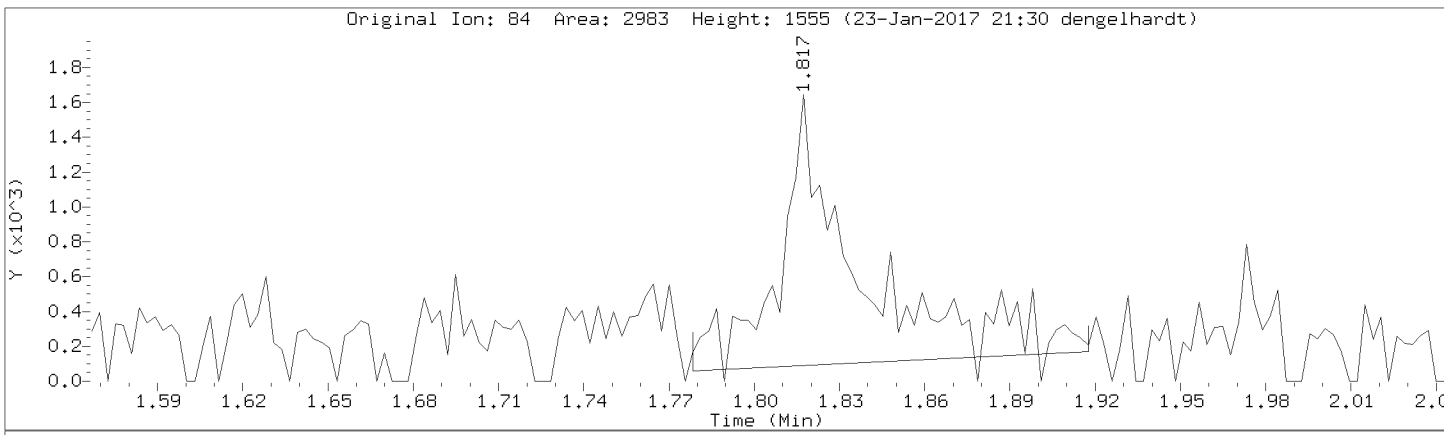
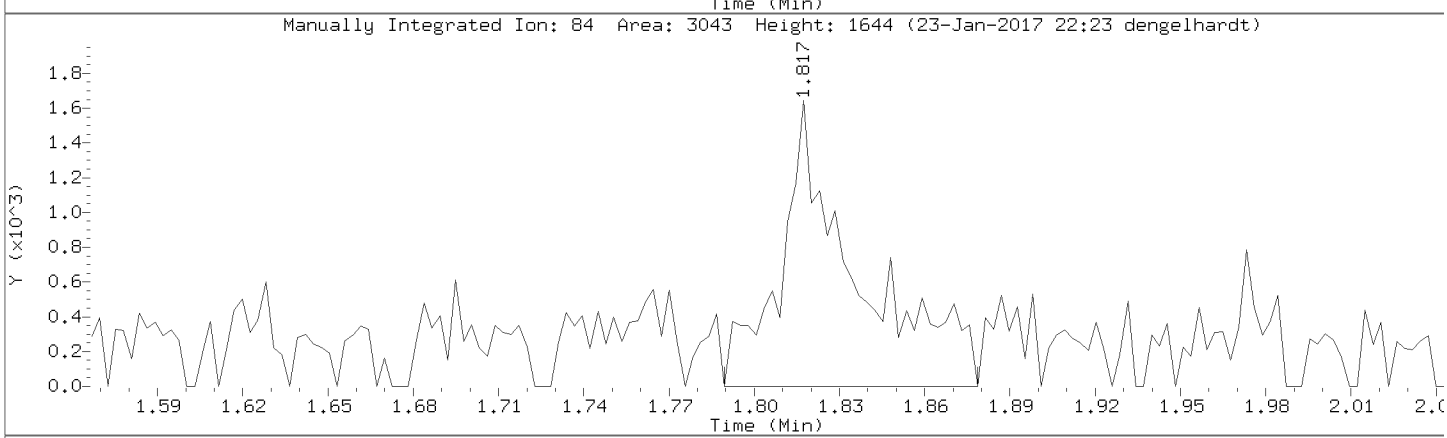
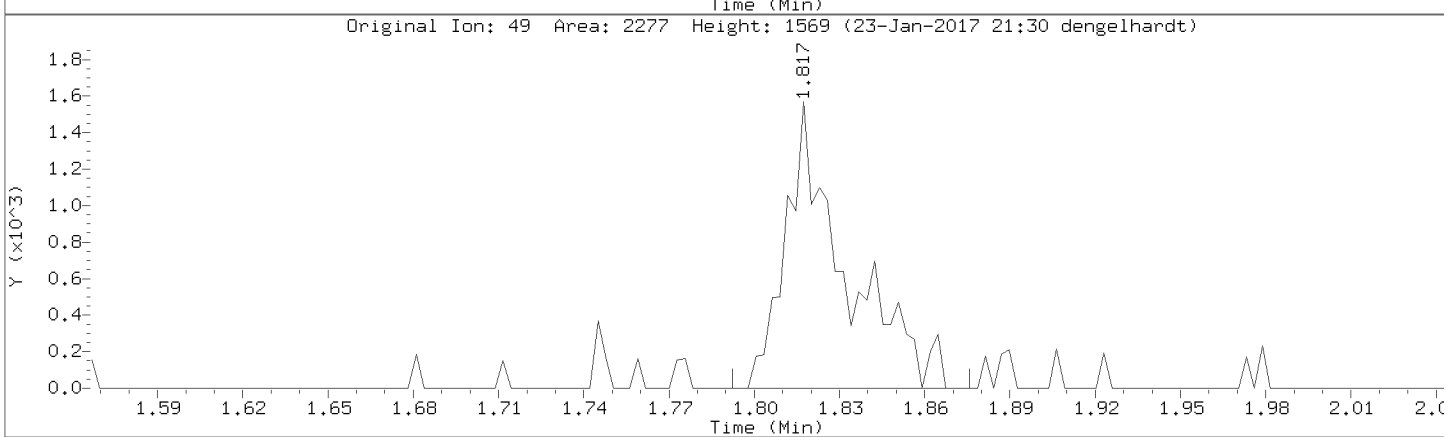
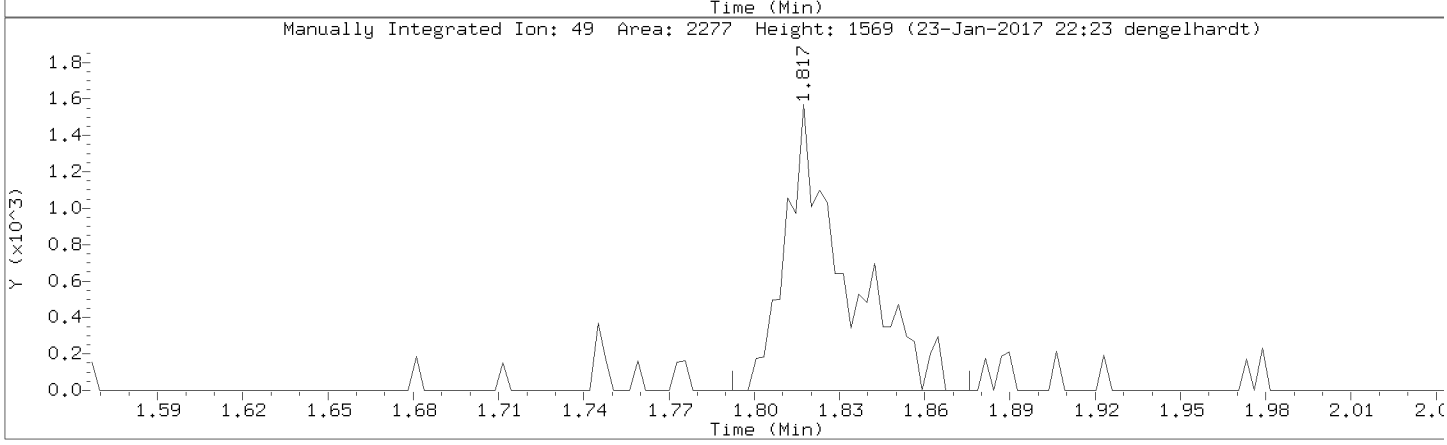
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methylene Chloride Review Code: LT
CAS Number: 75-09-2









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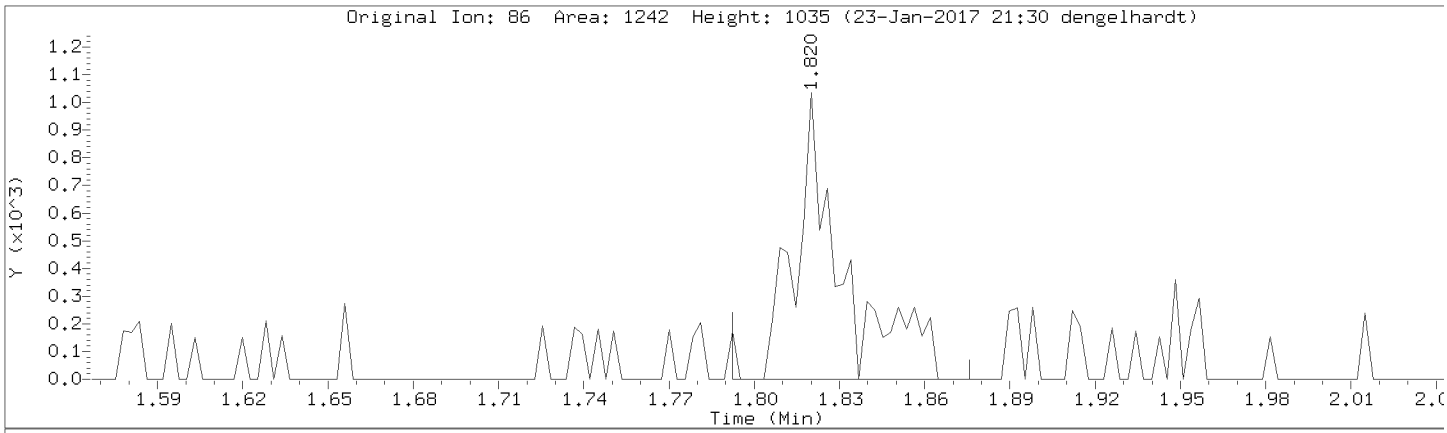
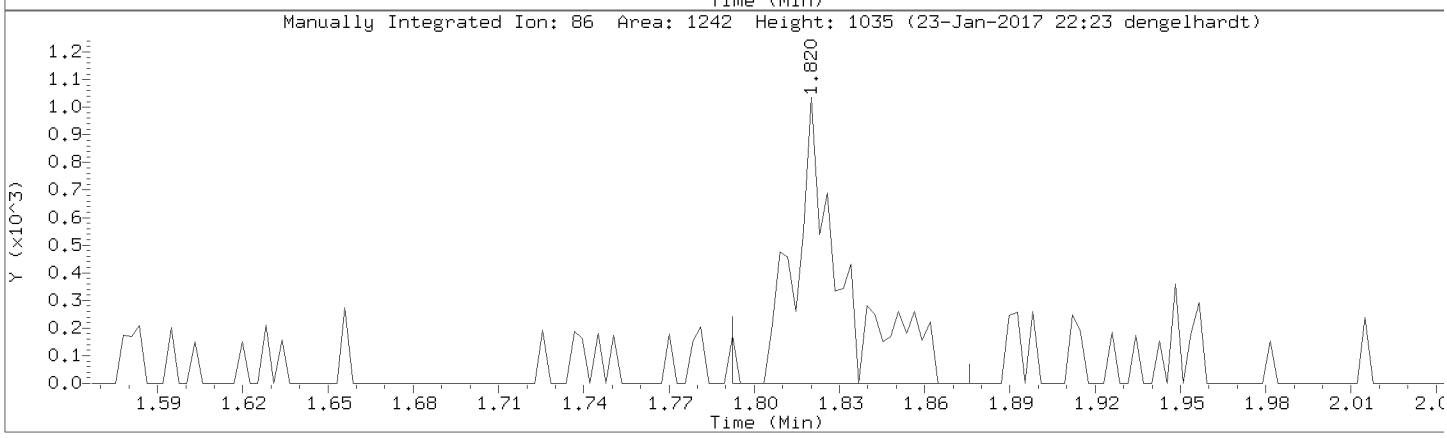
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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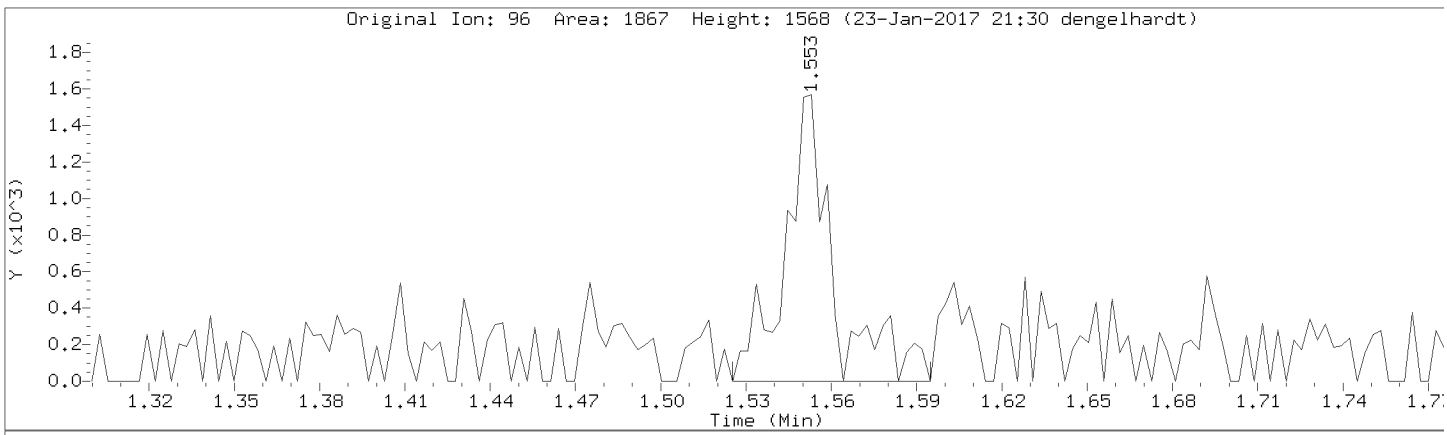
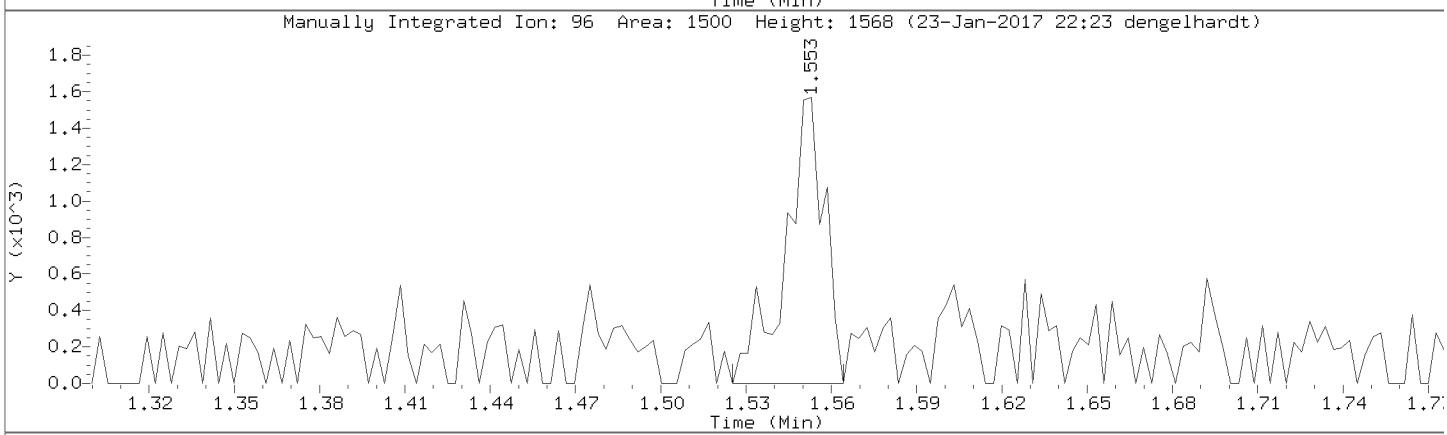
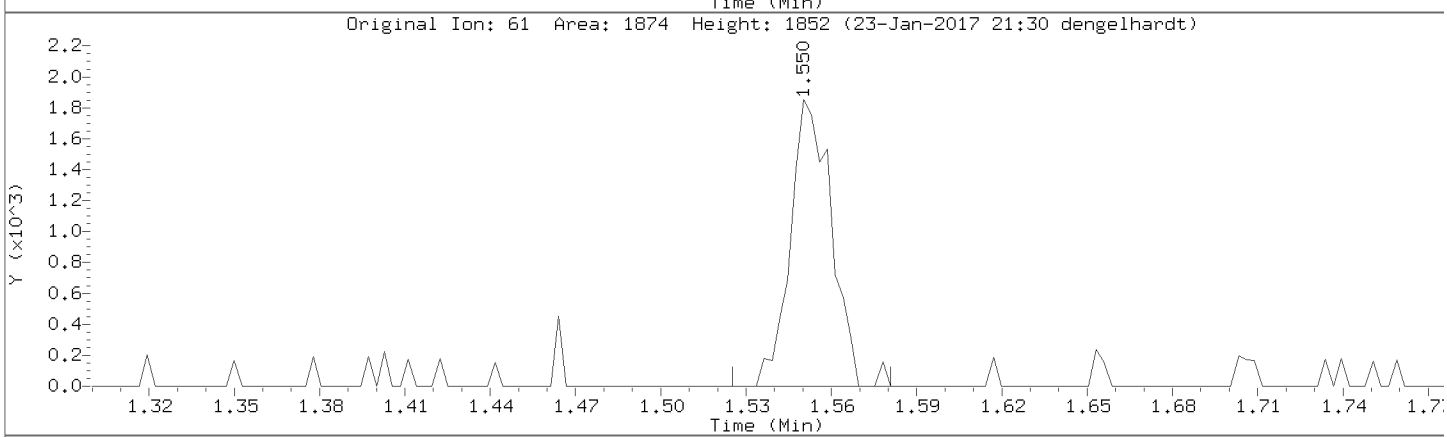
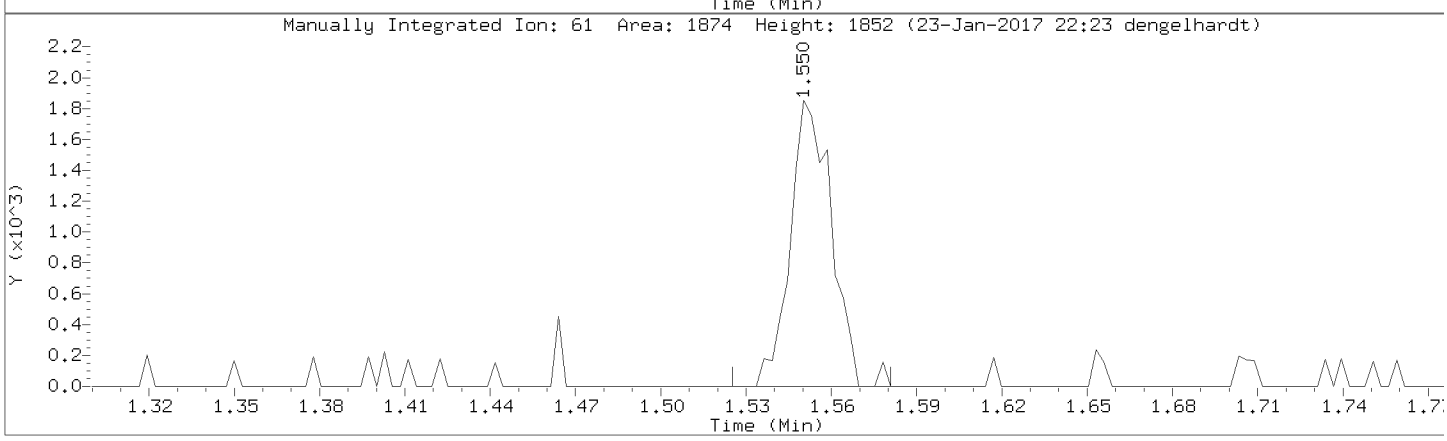
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1-Dichloroethene Review Code: GT
CAS Number: 75-35-4









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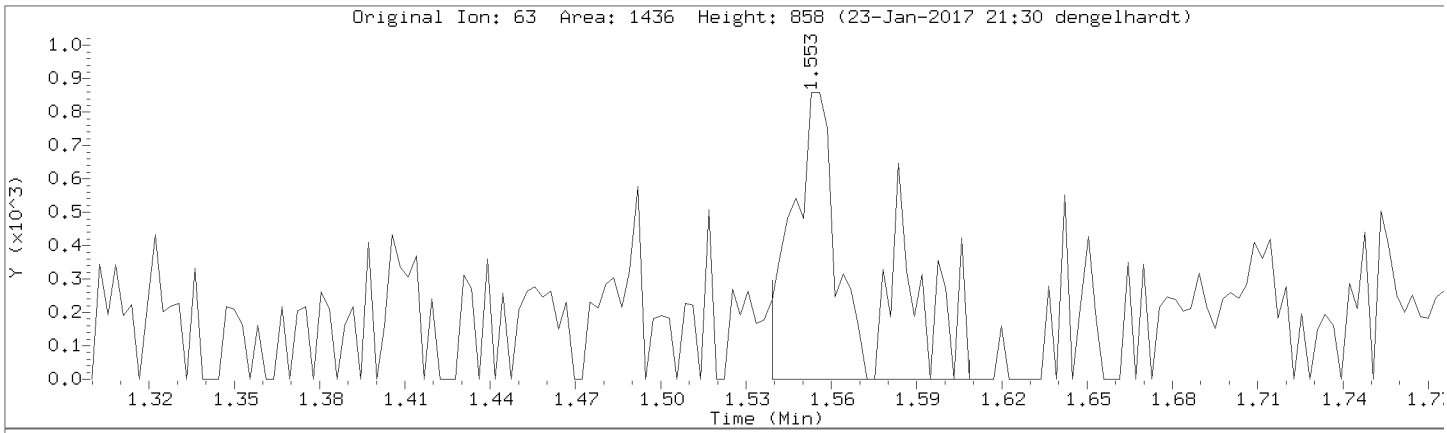
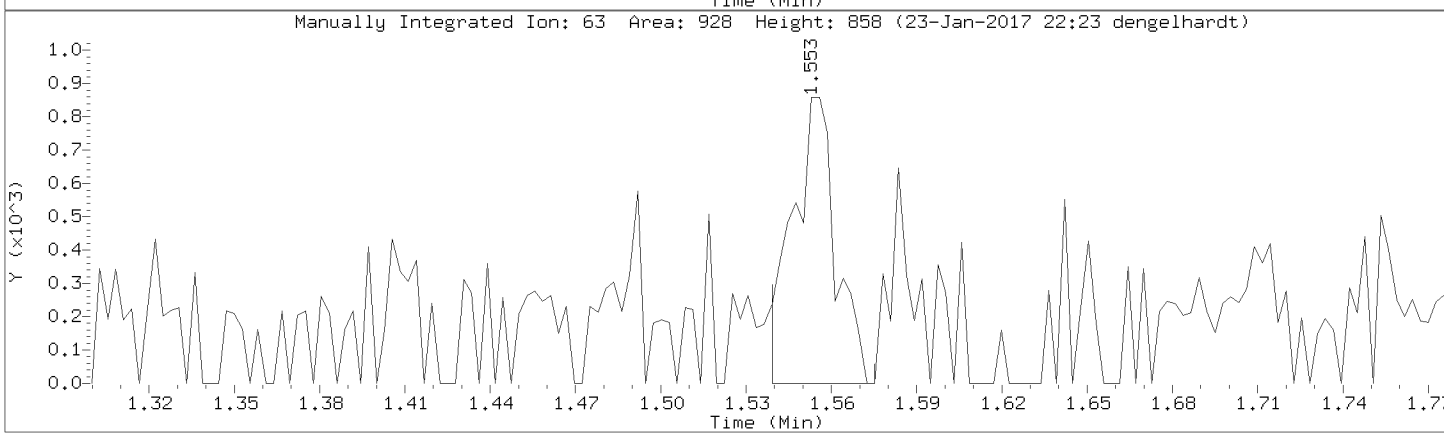
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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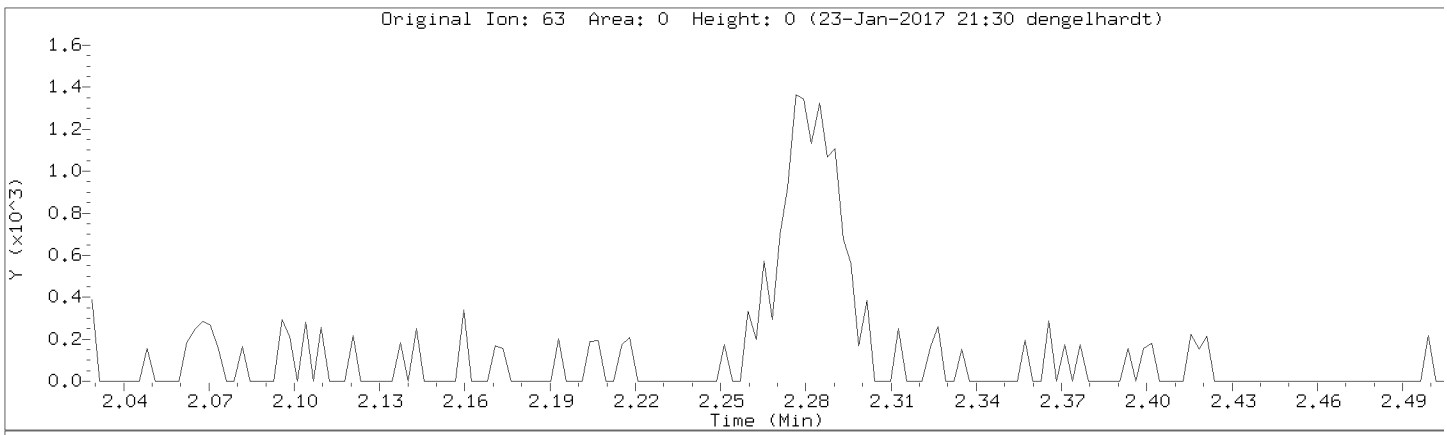
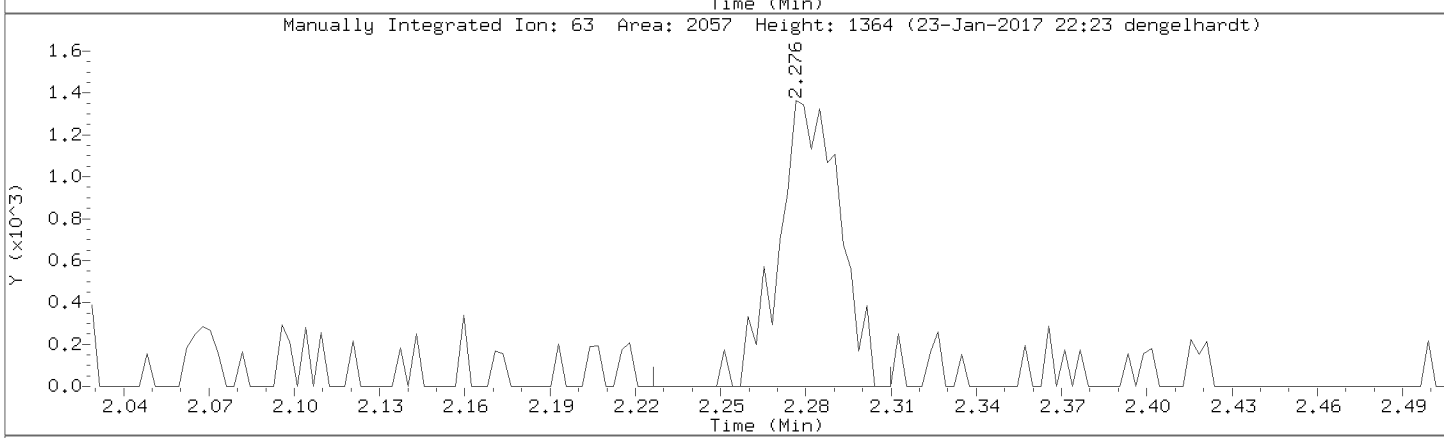
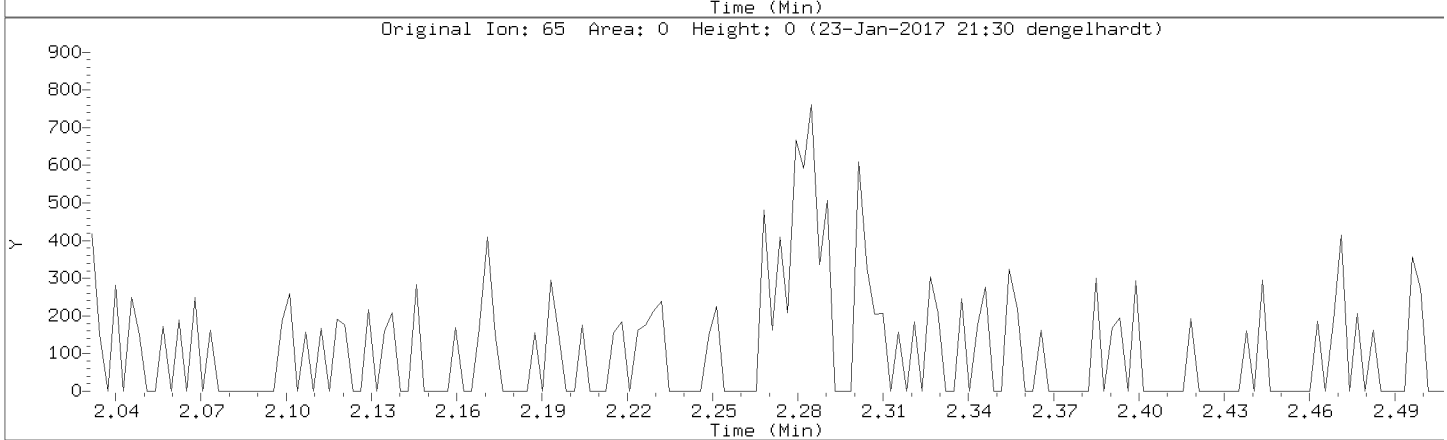
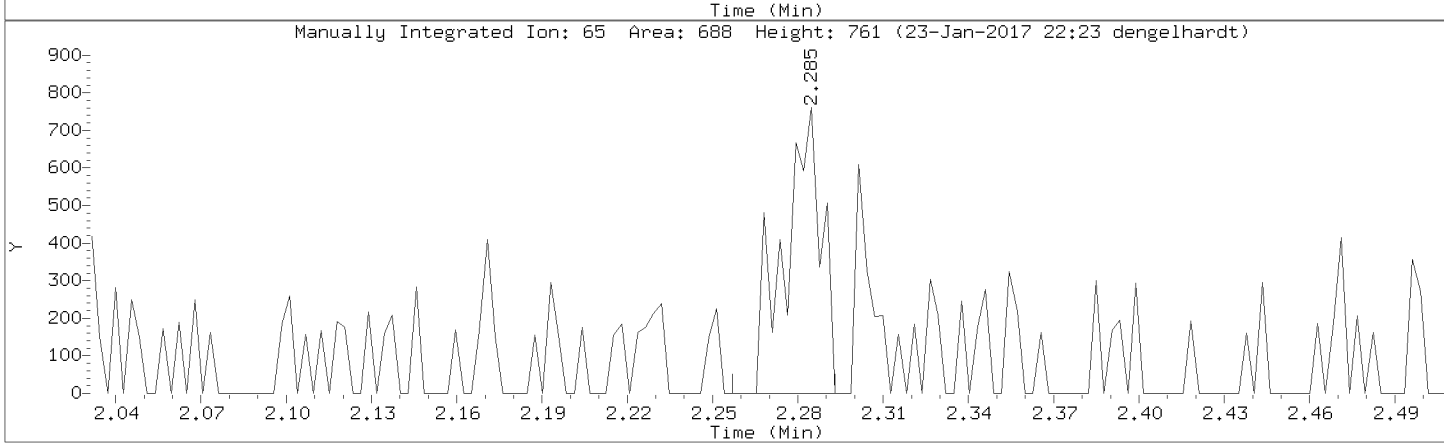
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3









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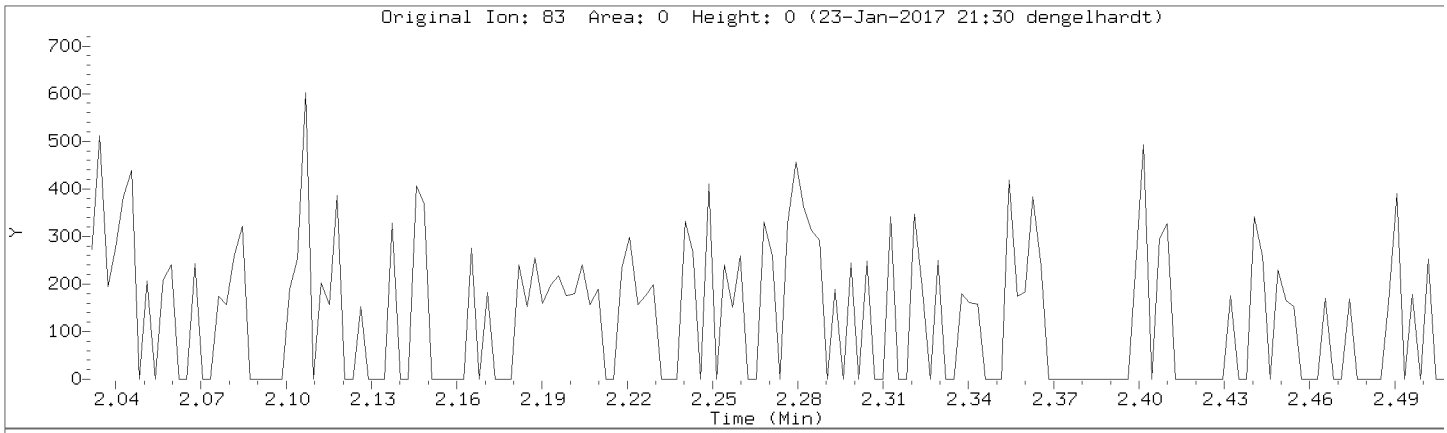
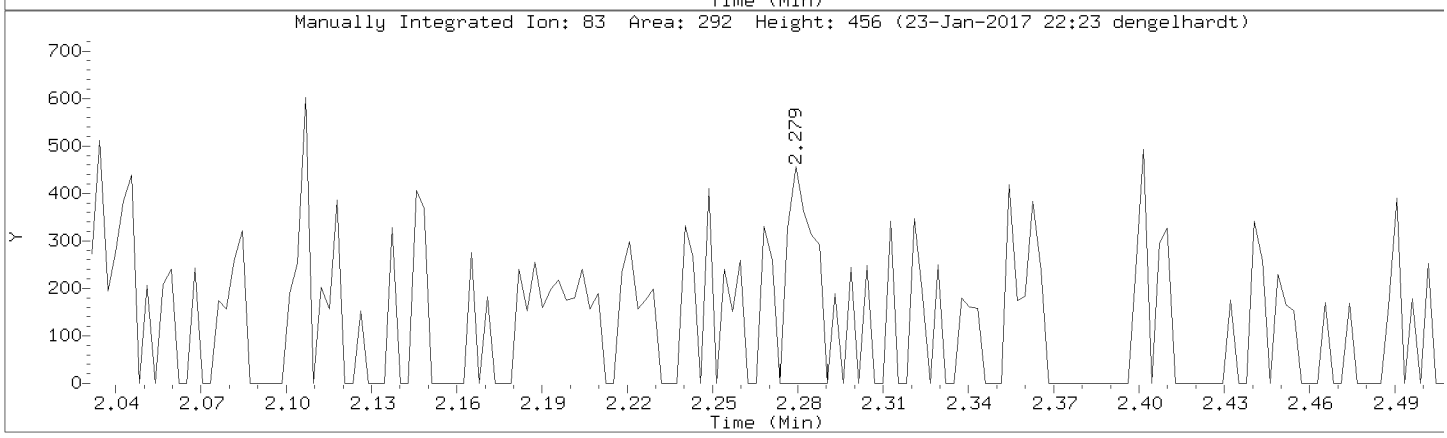
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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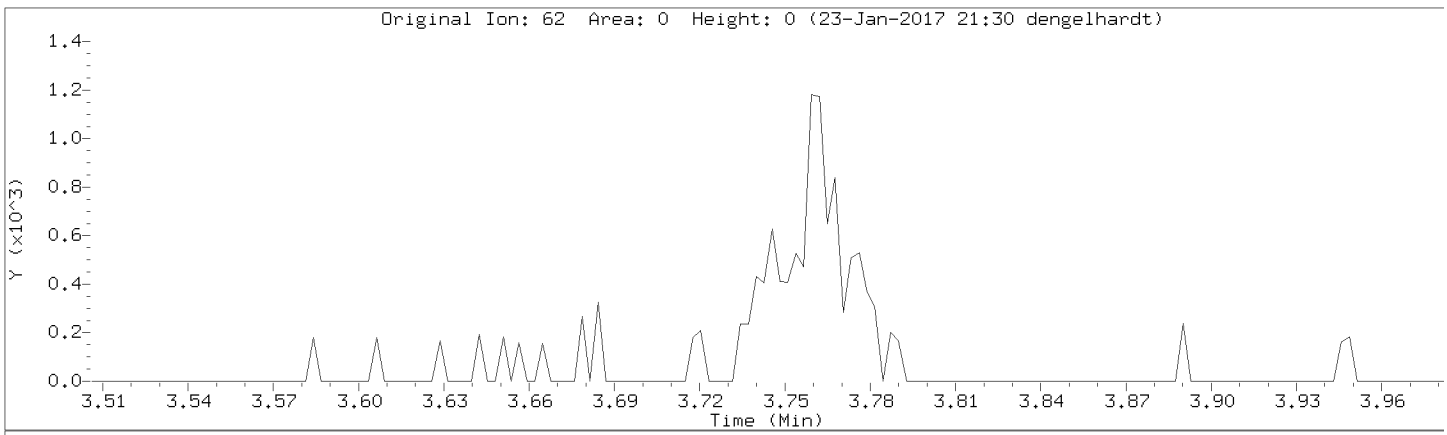
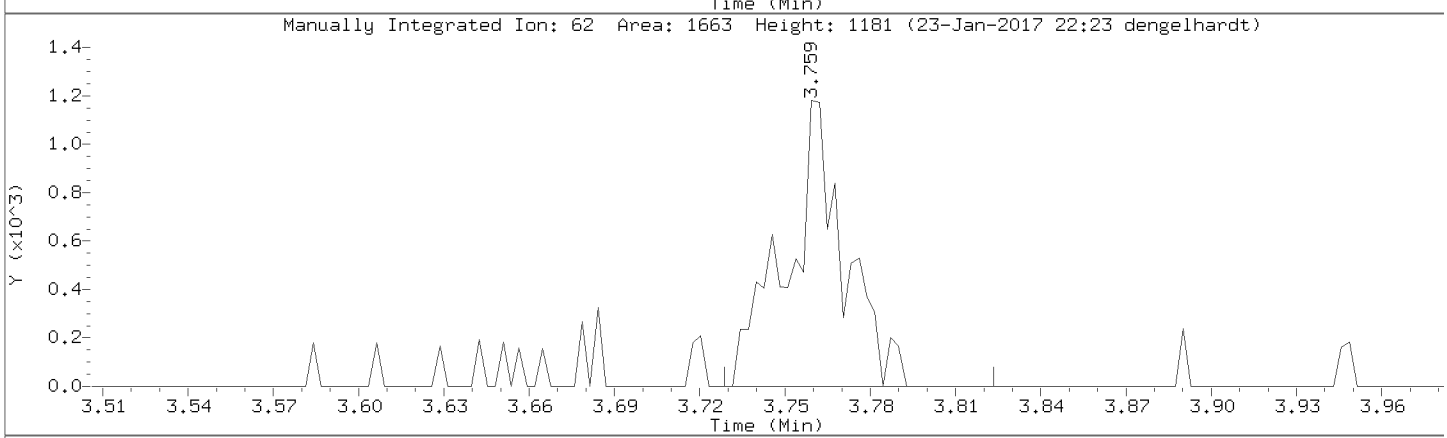
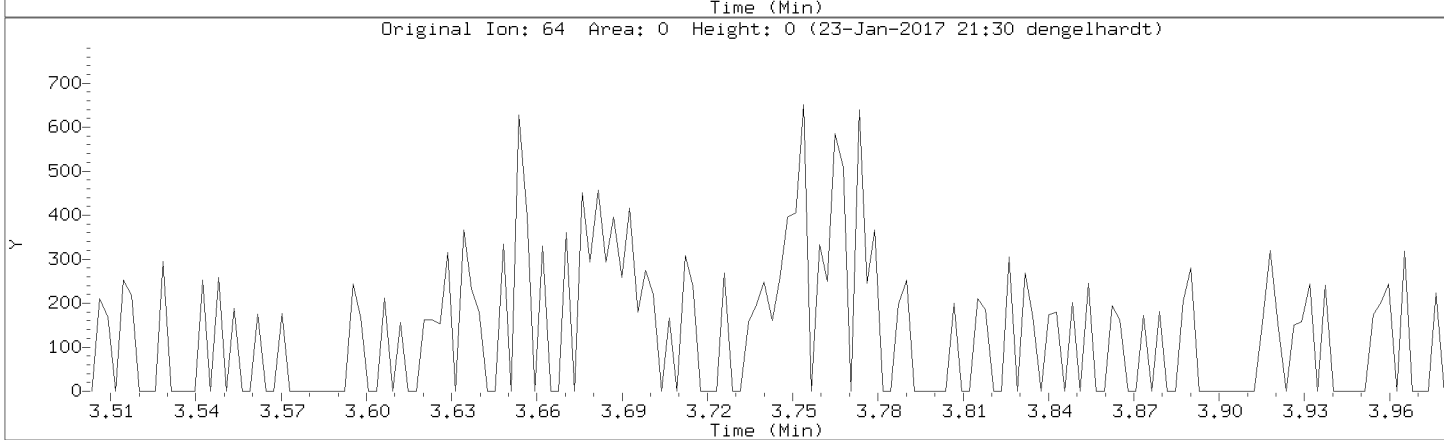
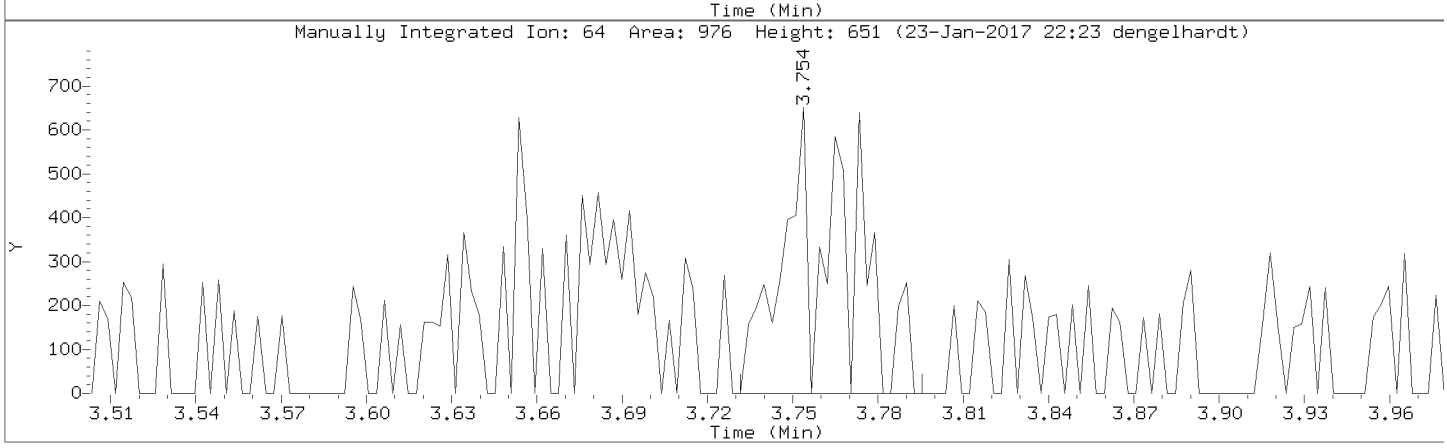
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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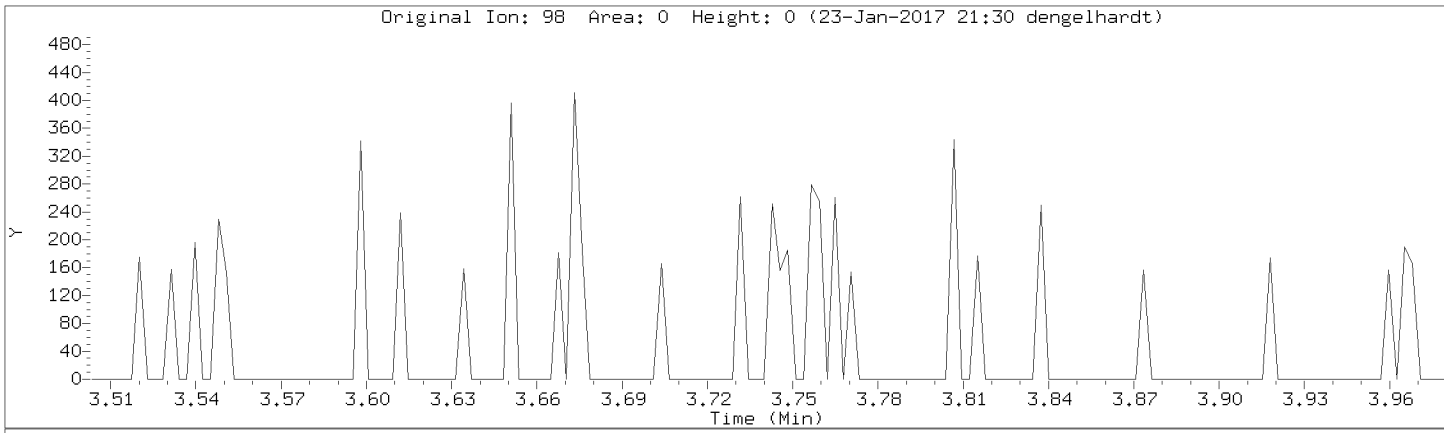
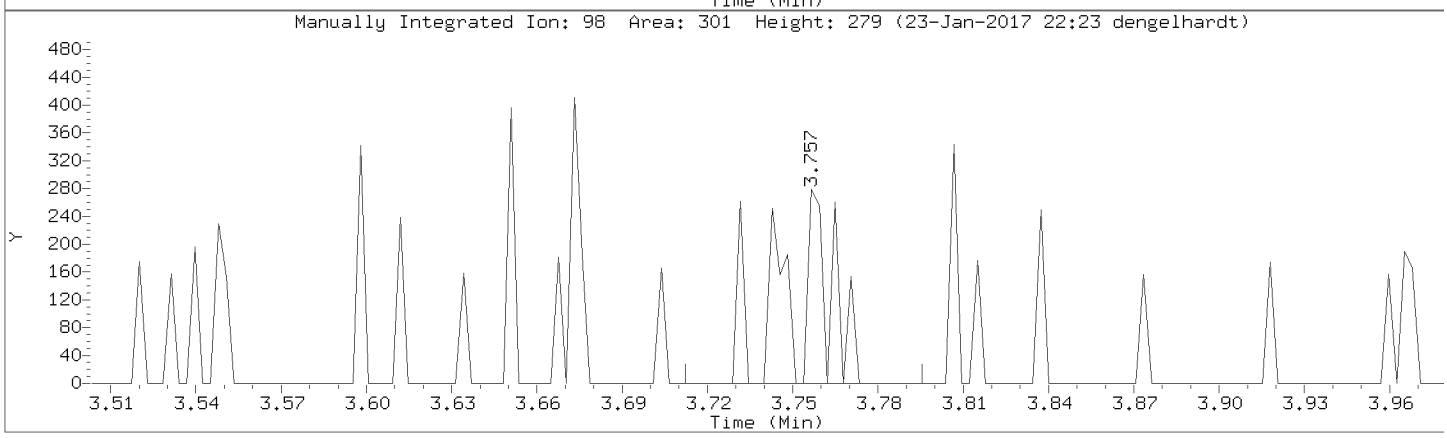
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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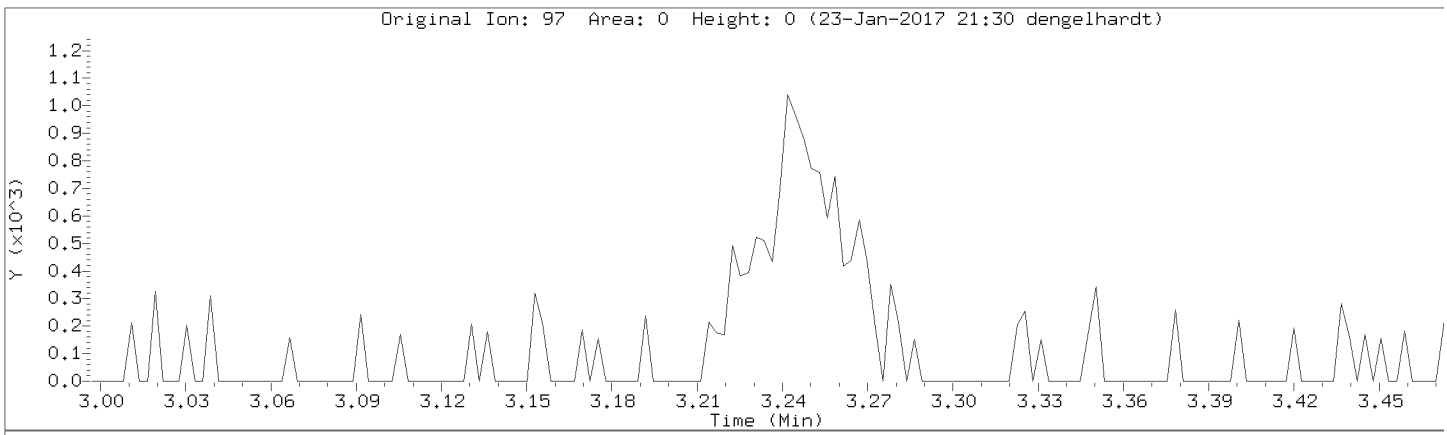
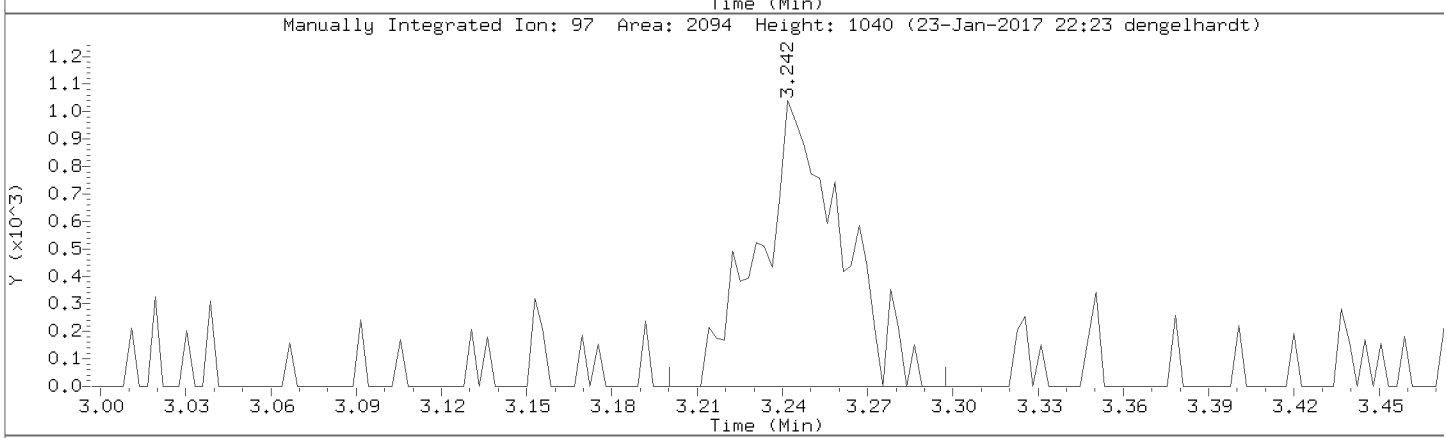
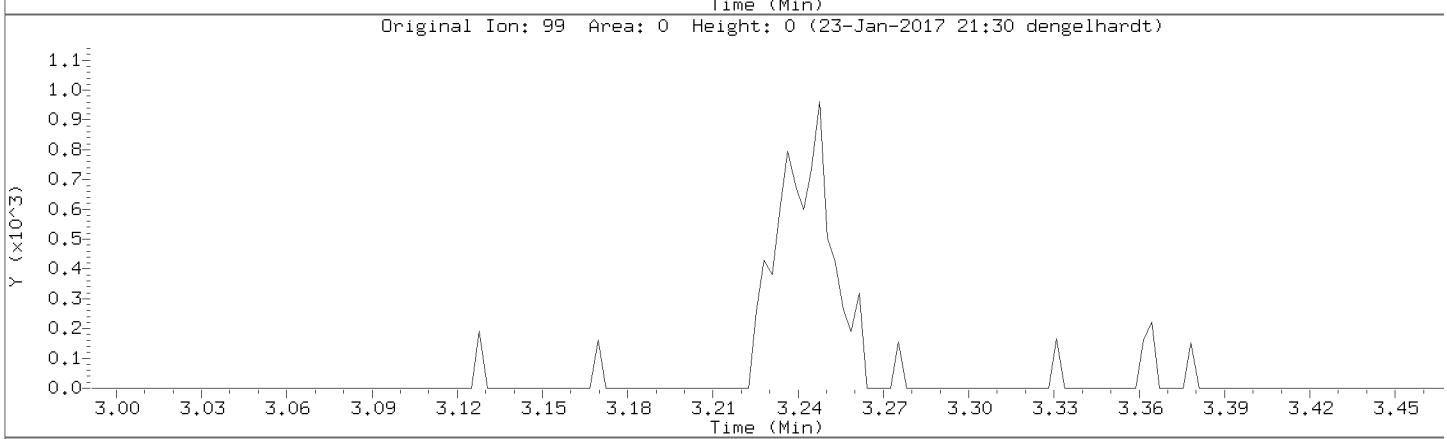
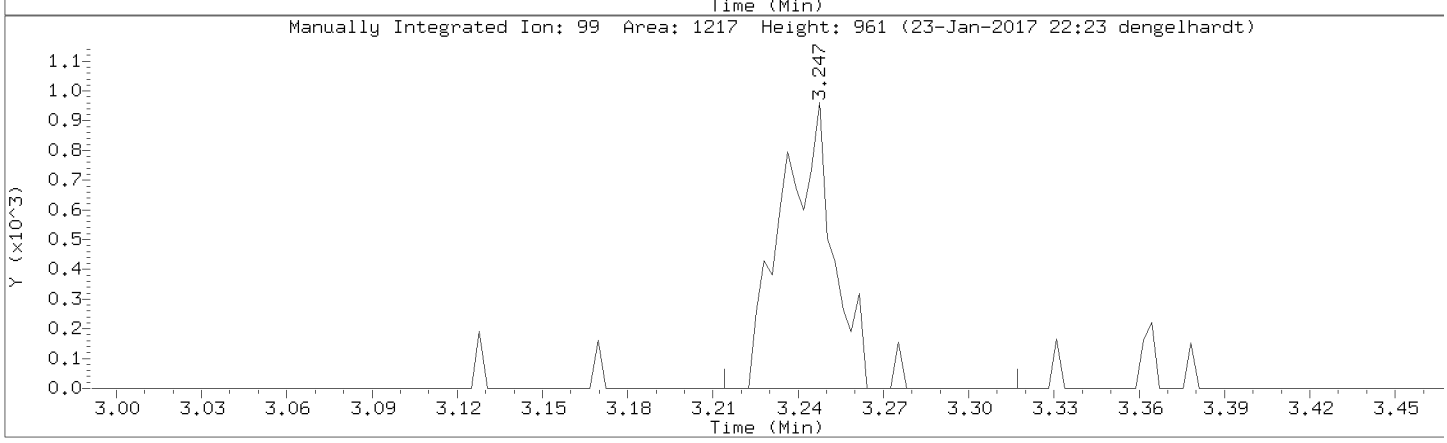
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,1-Trichloroethane Review Code: NI
CAS Number: 71-55-6









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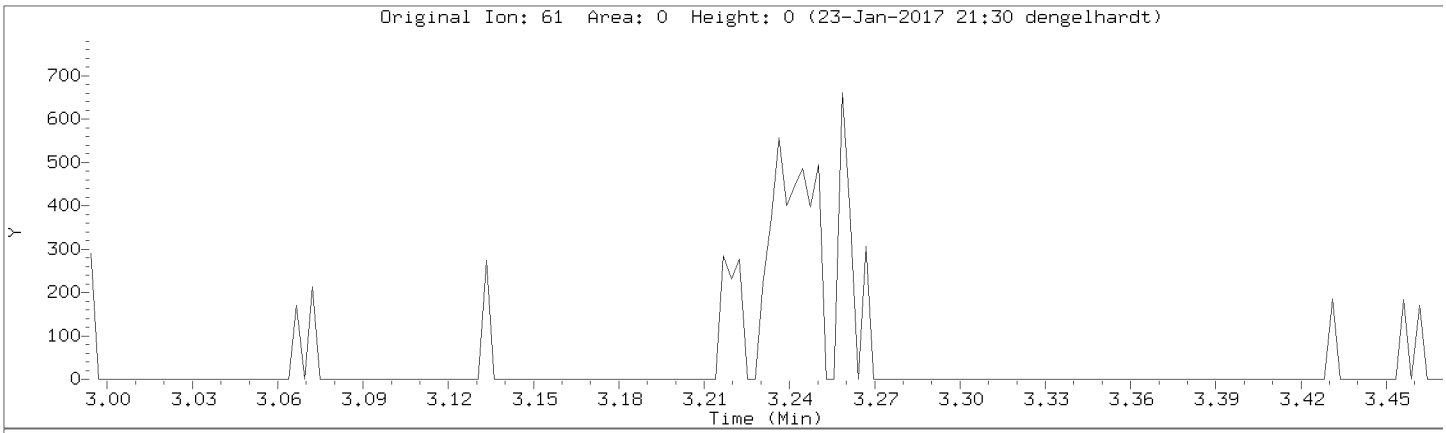
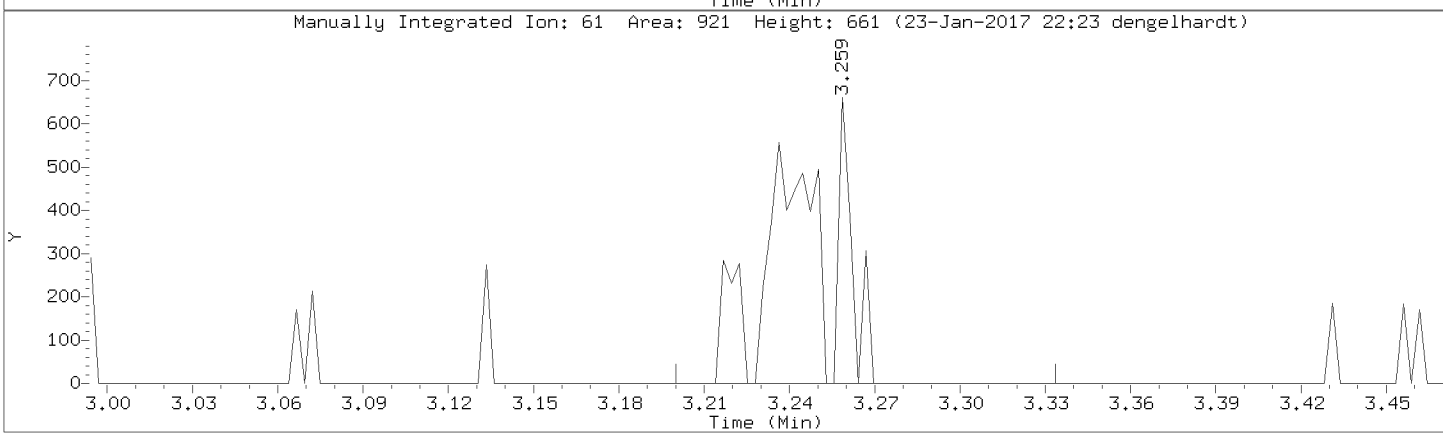
Lab Sample ID: 8260-CAL1,140426:0





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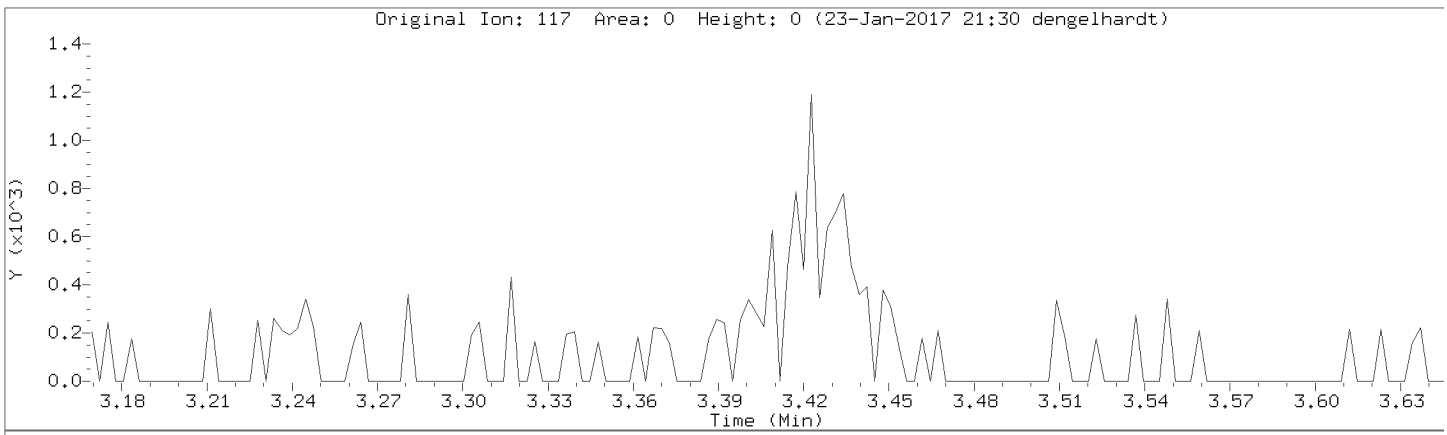
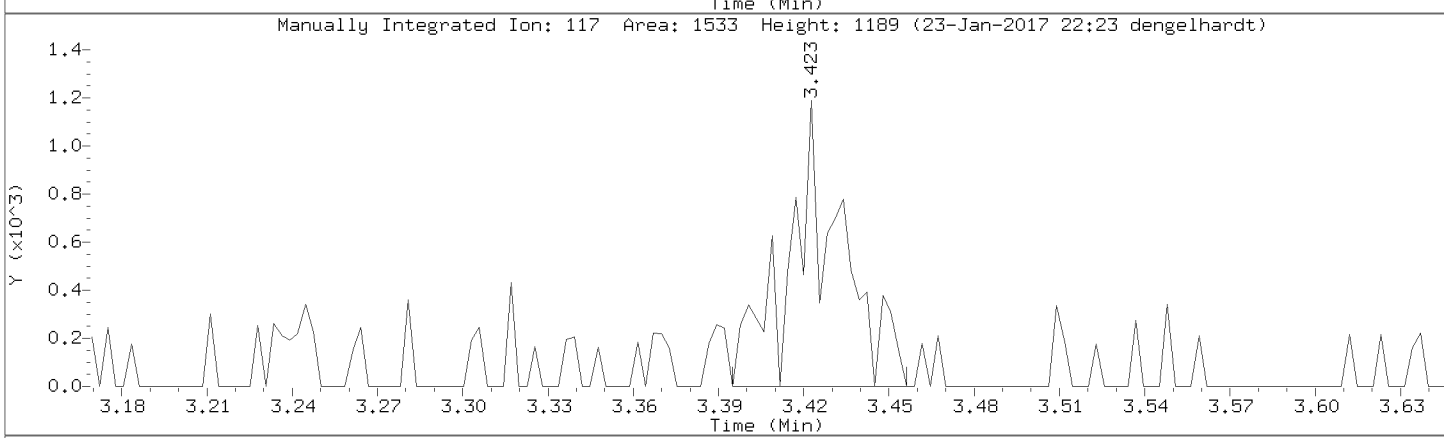
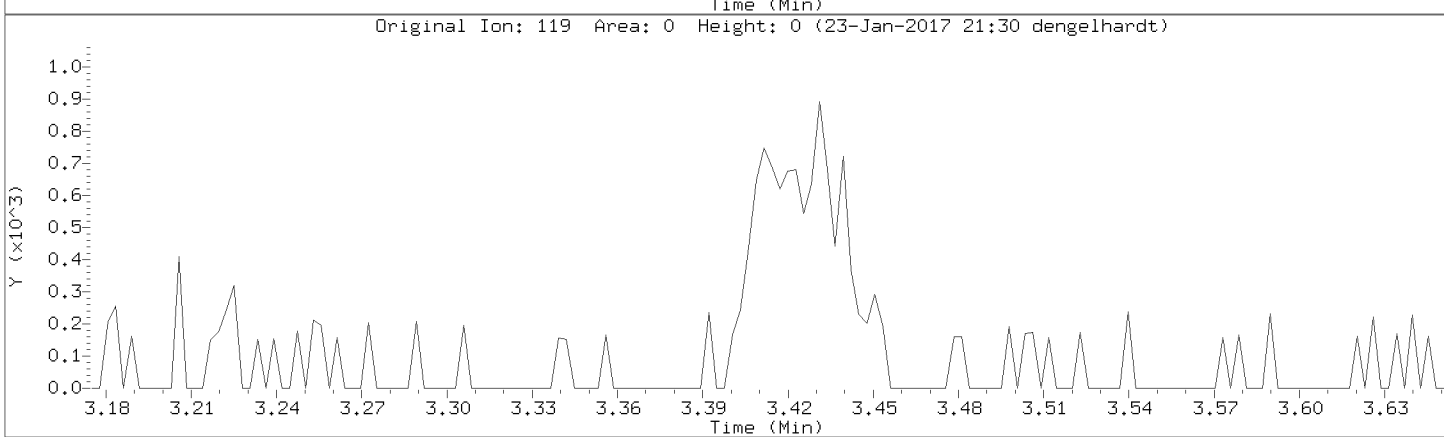
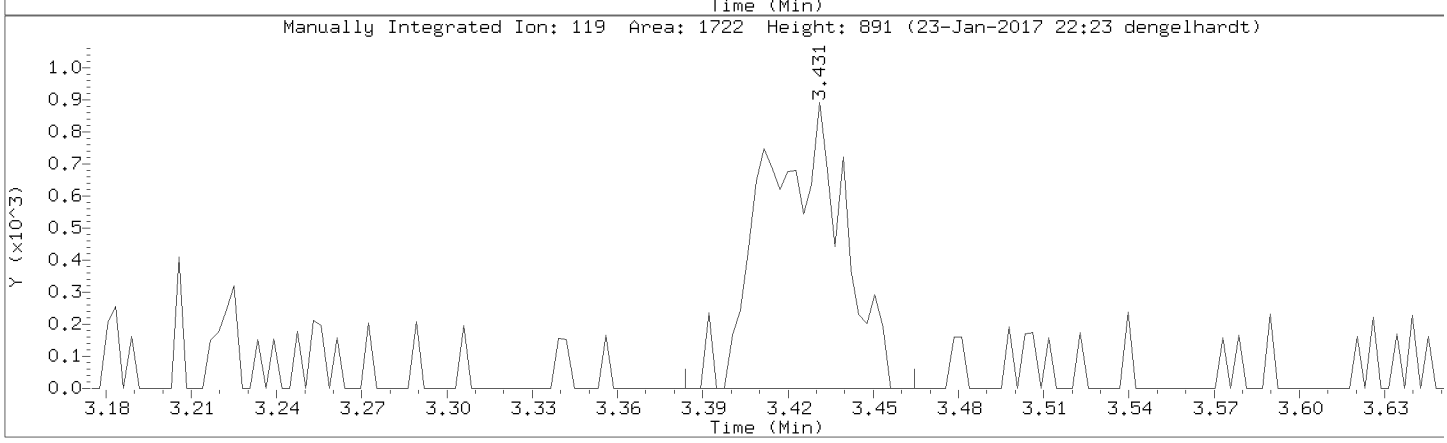
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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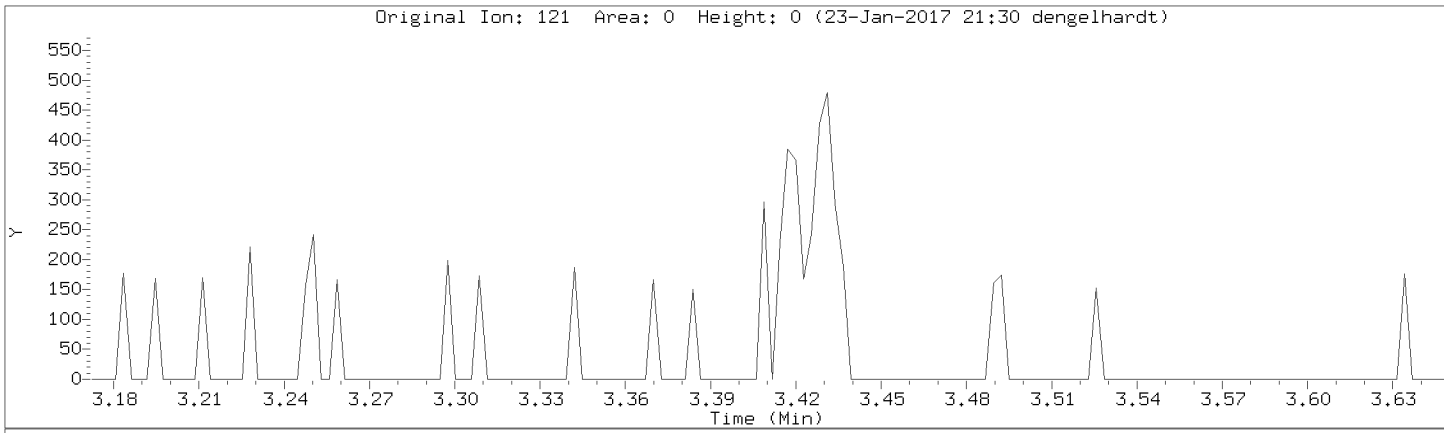
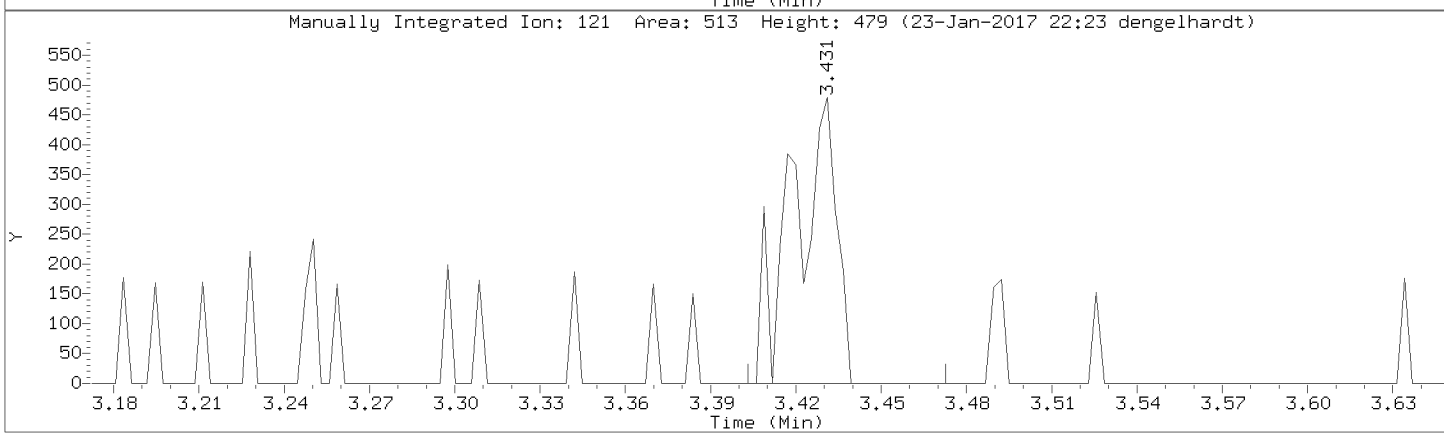
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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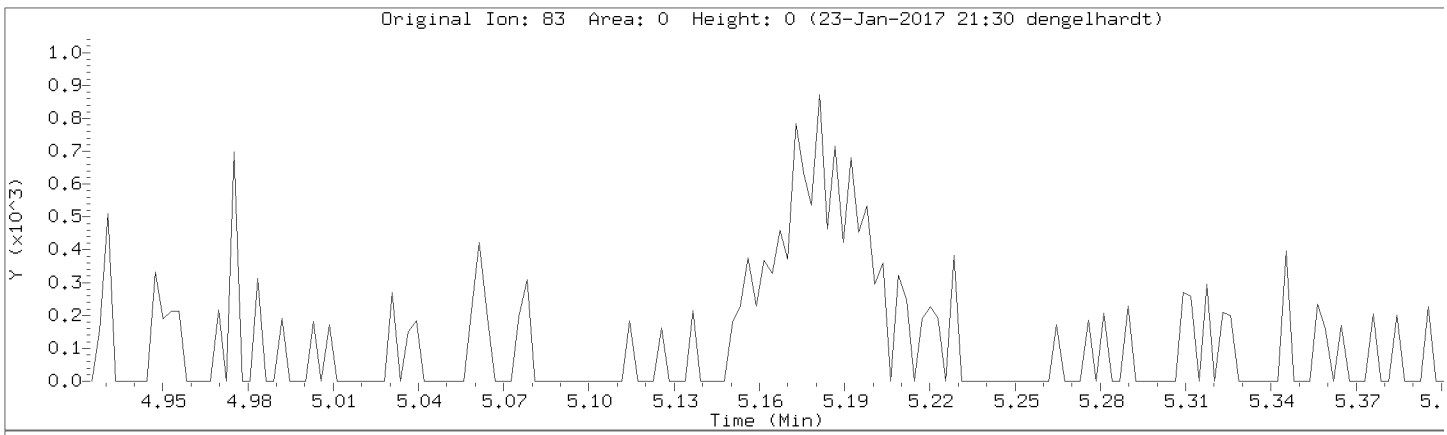
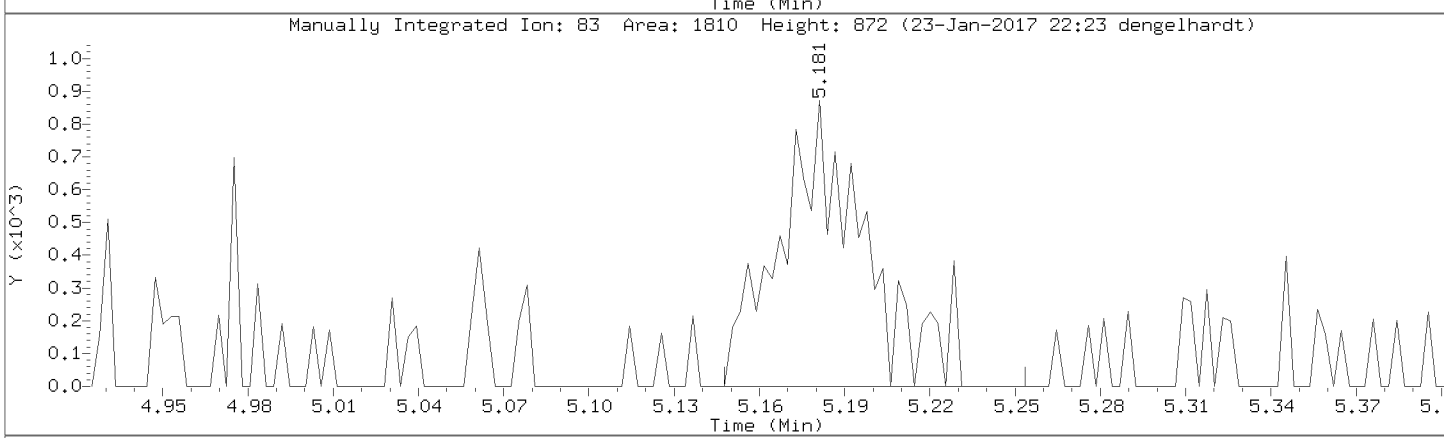
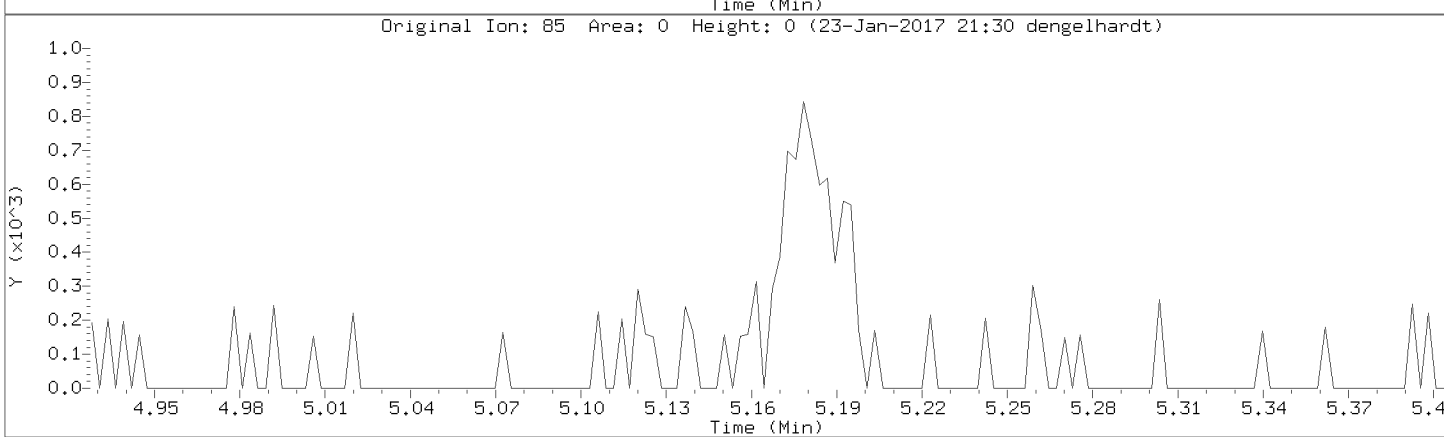
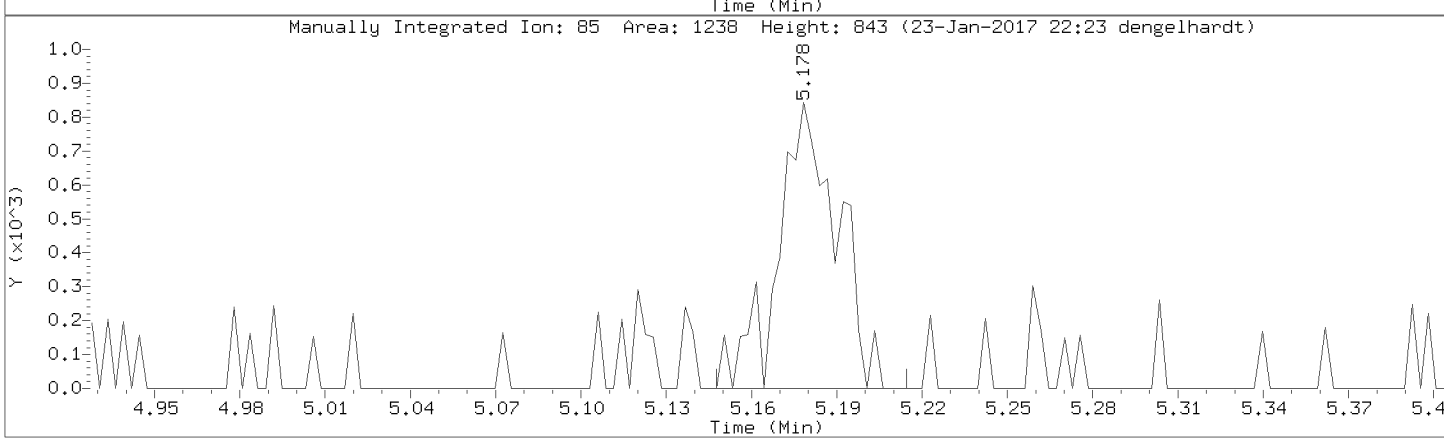
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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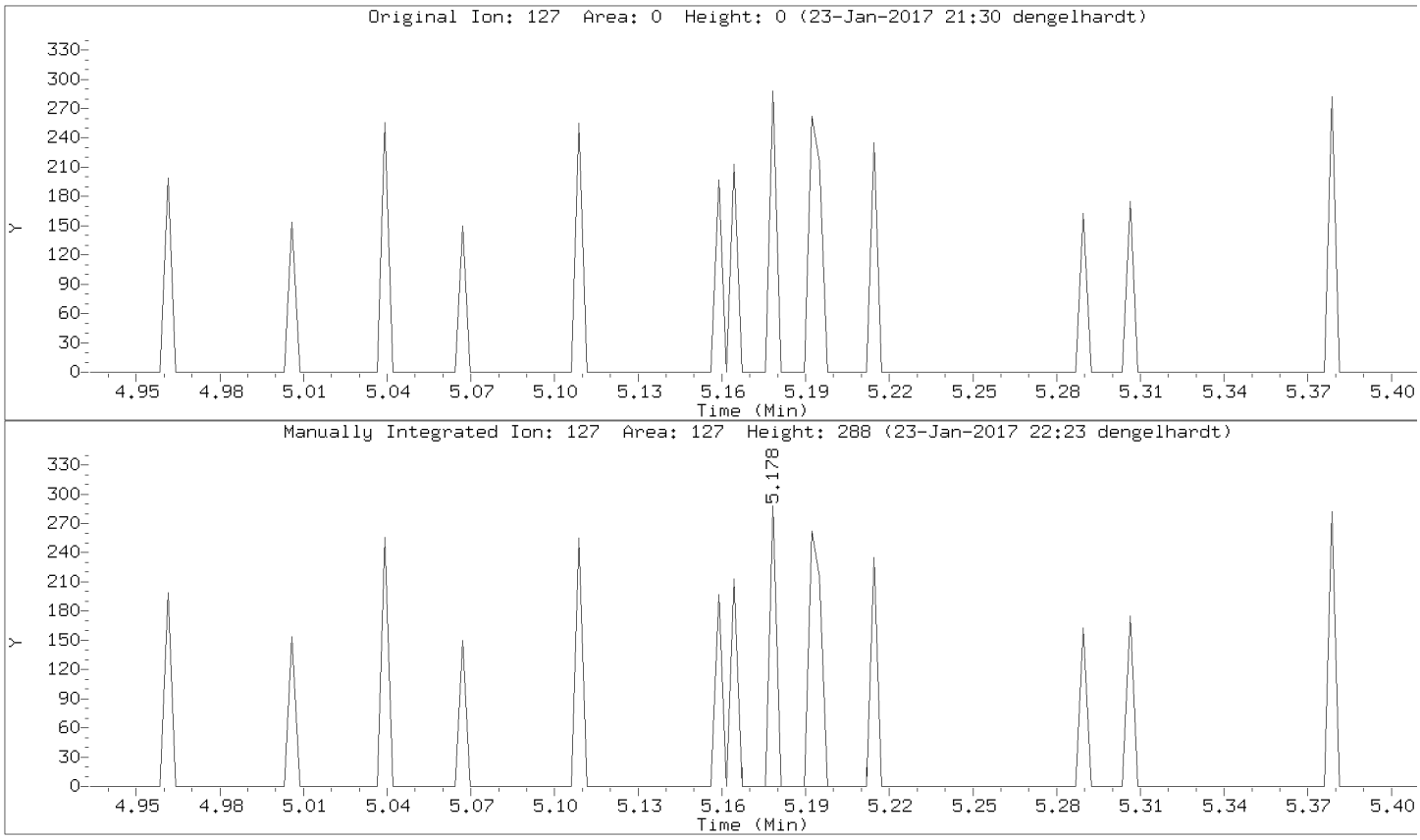
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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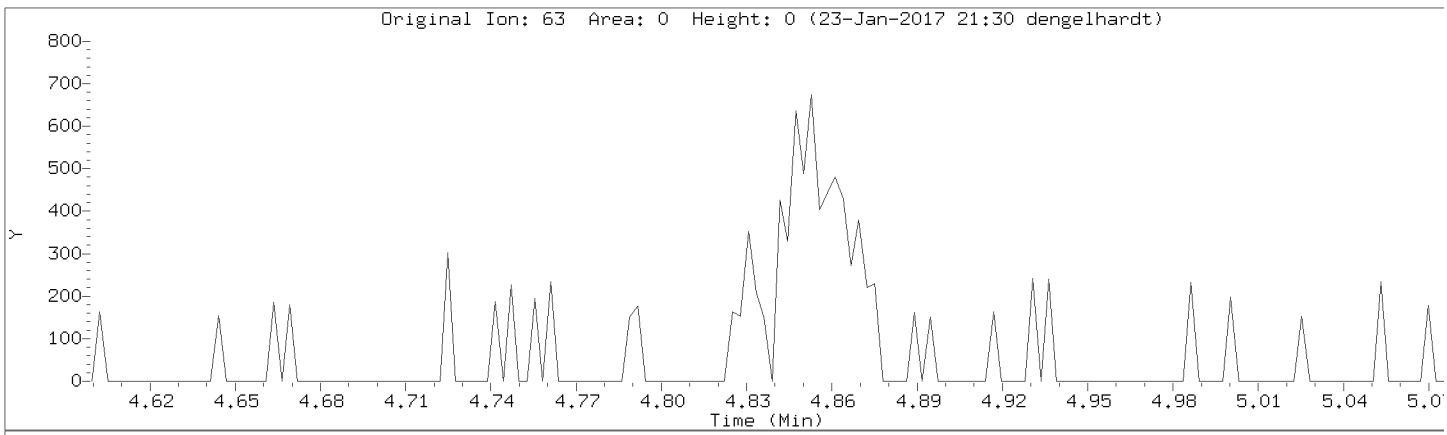
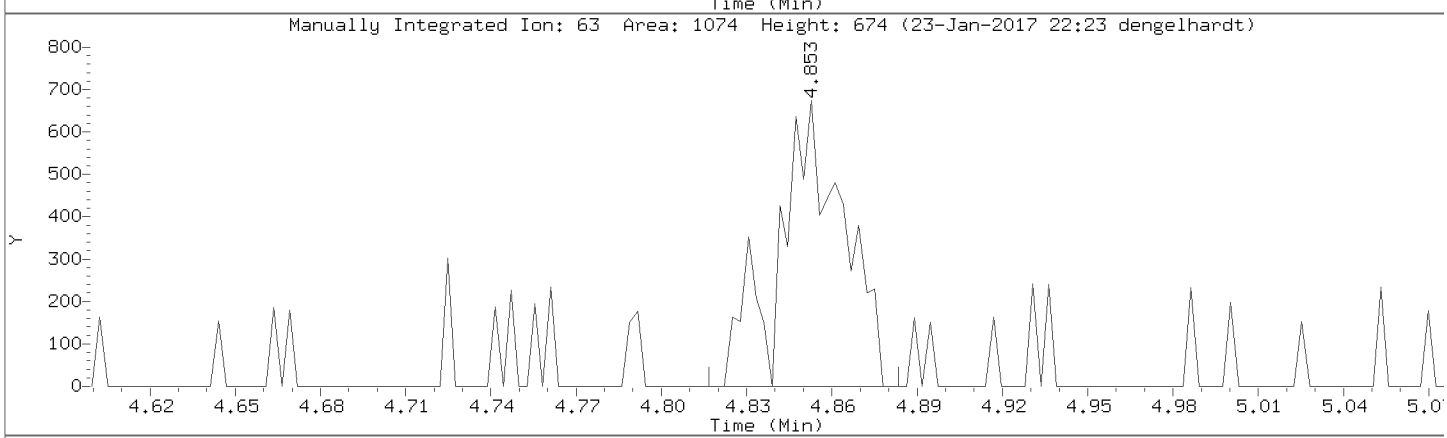
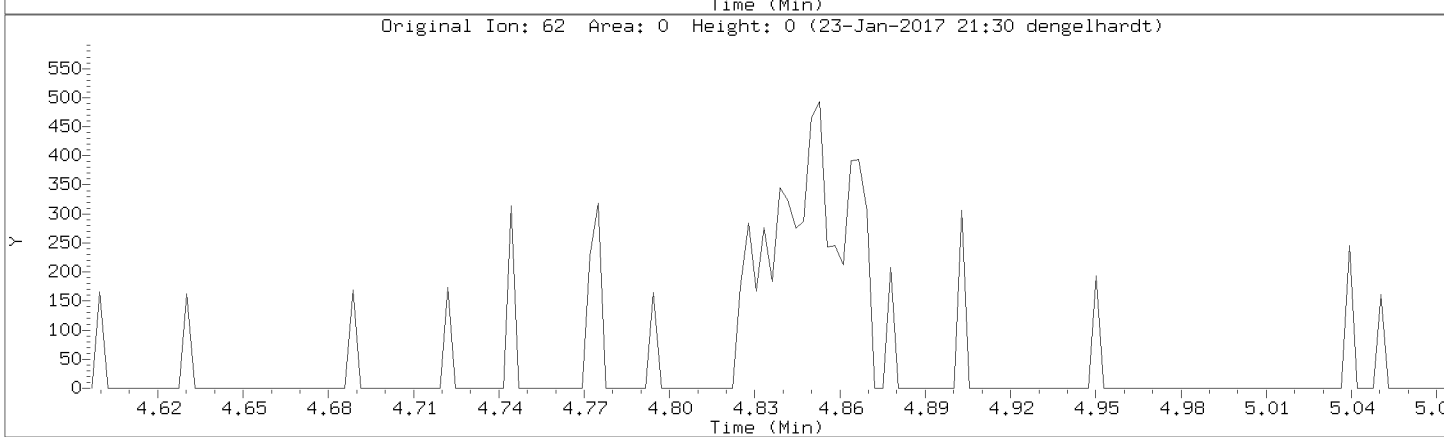
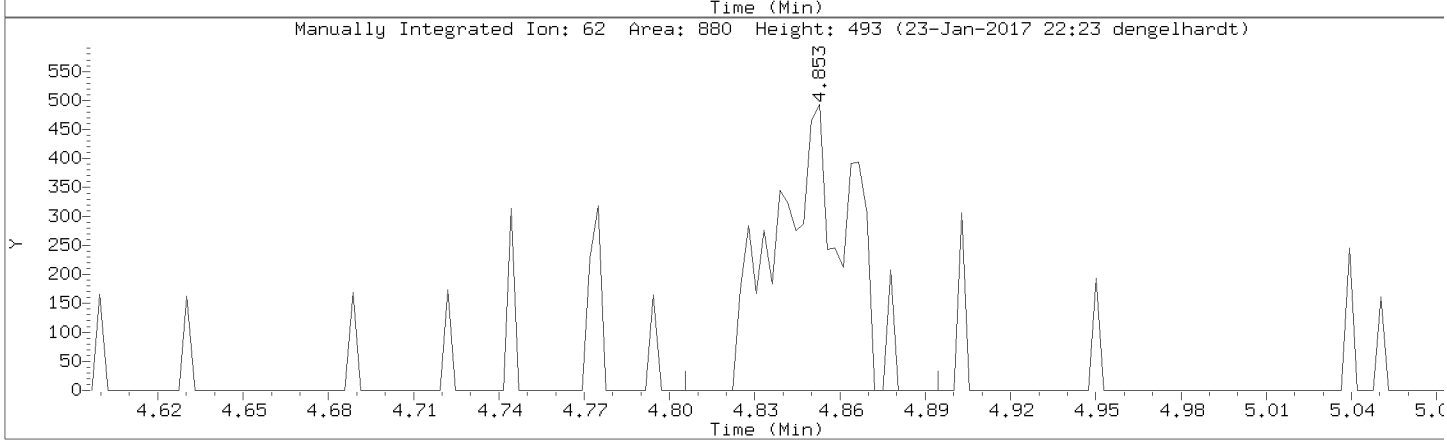
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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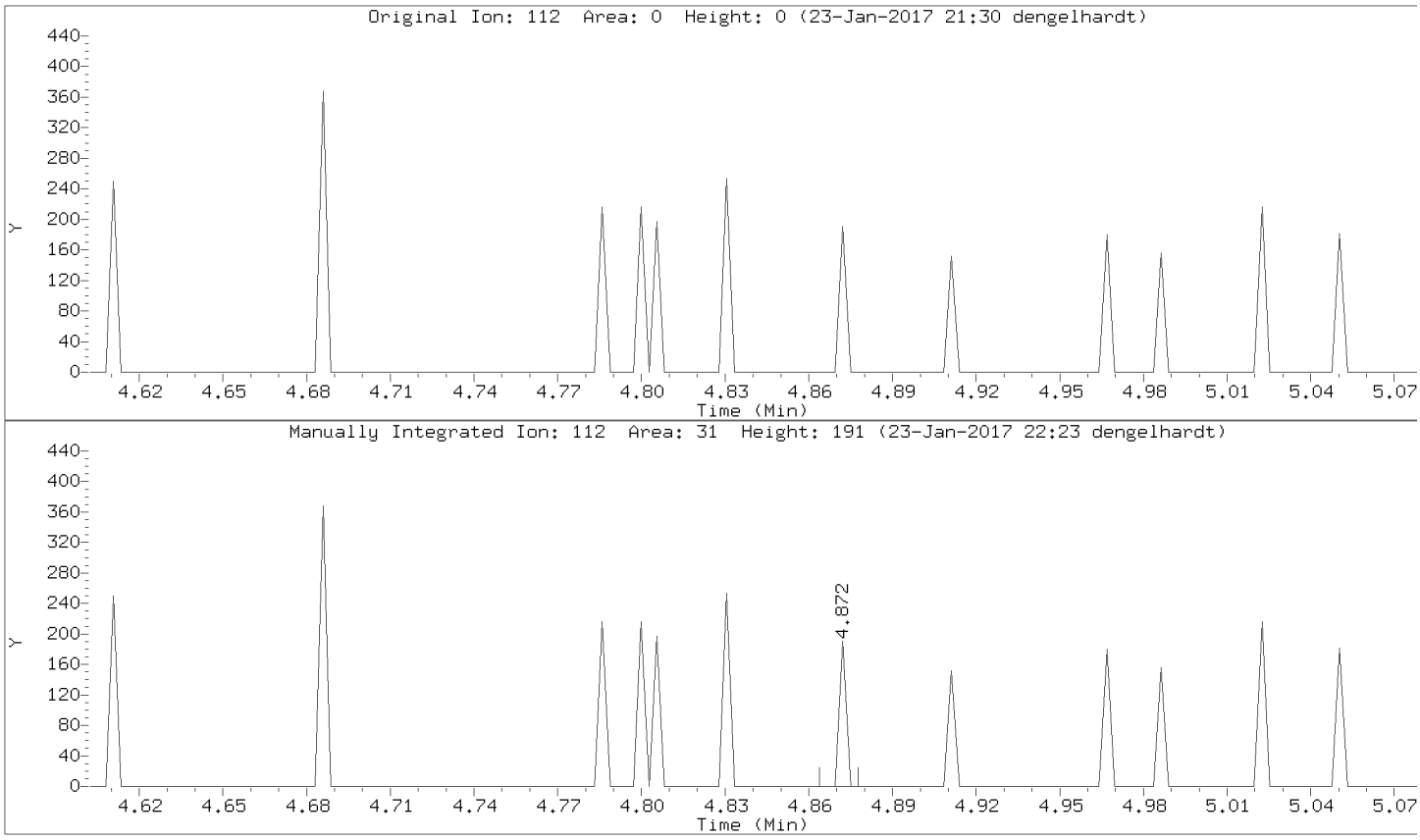
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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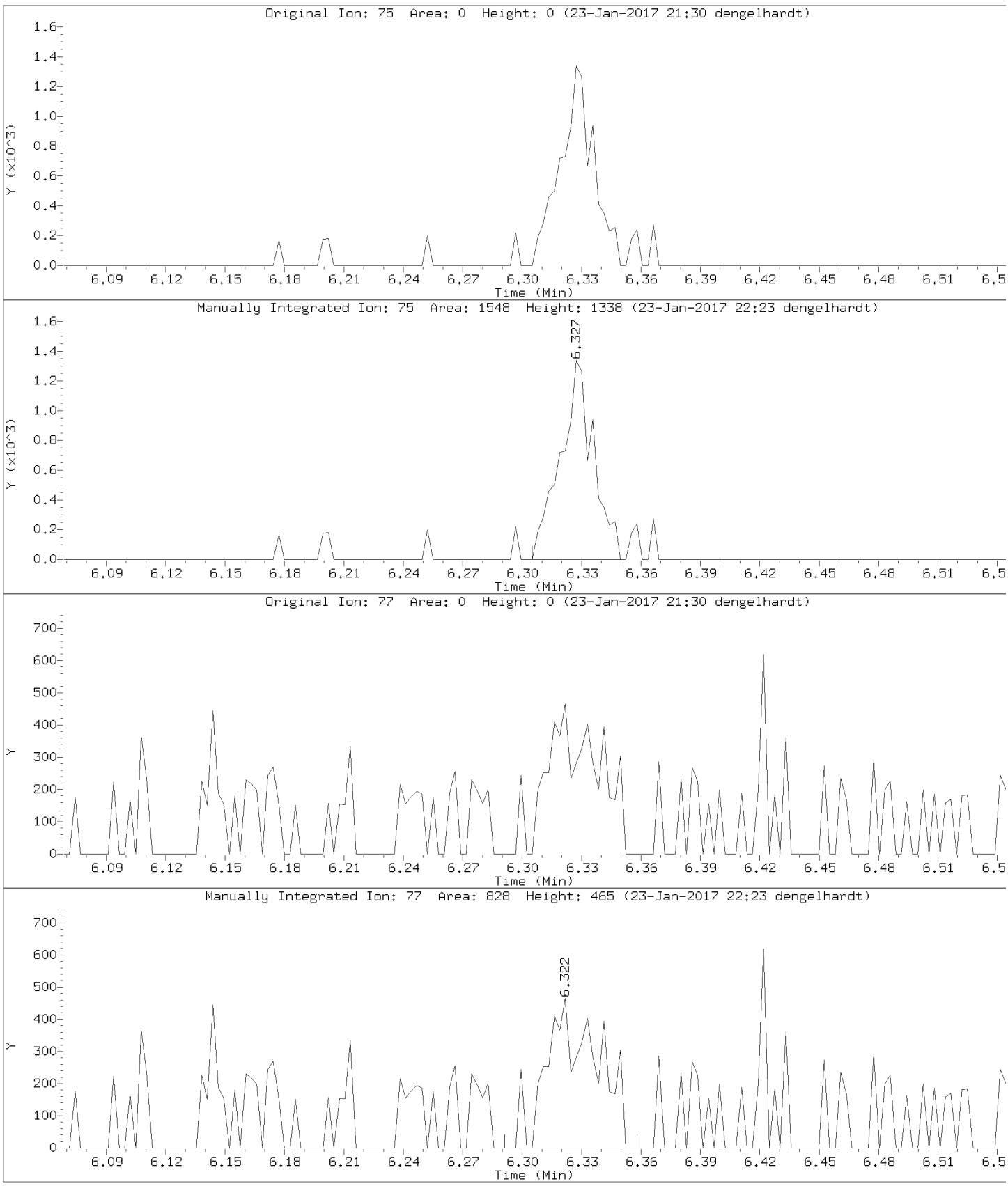
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: trans-1,3-Dichloropropene Review Code: NI
CAS Number: 10061-02-6



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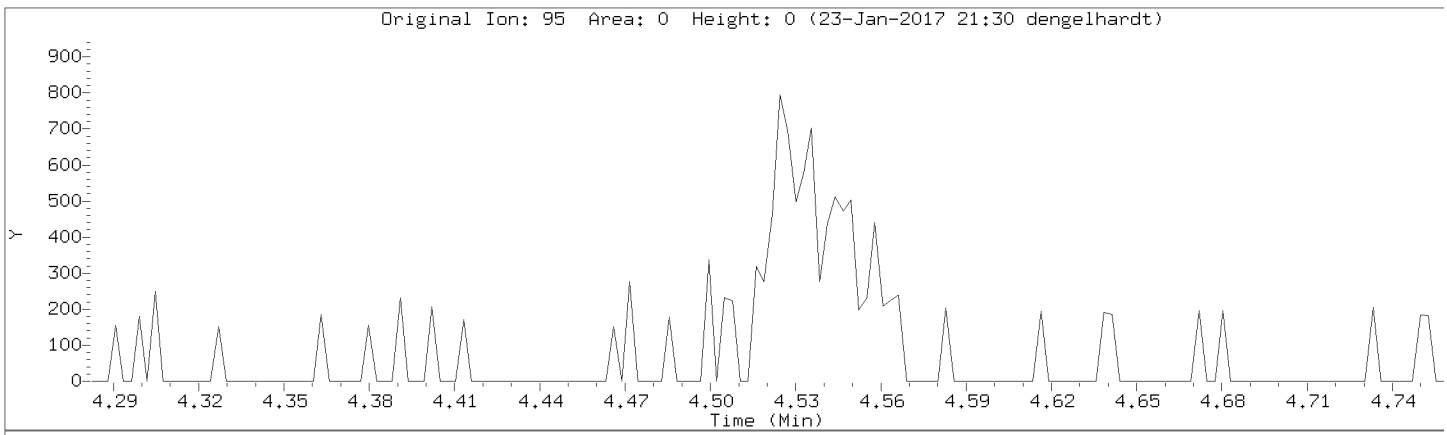
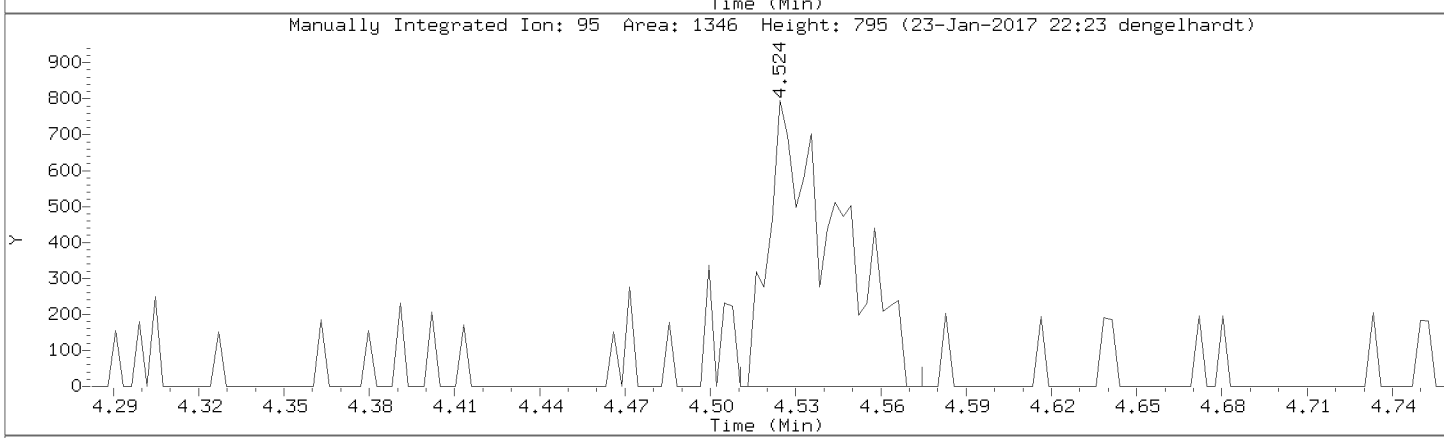
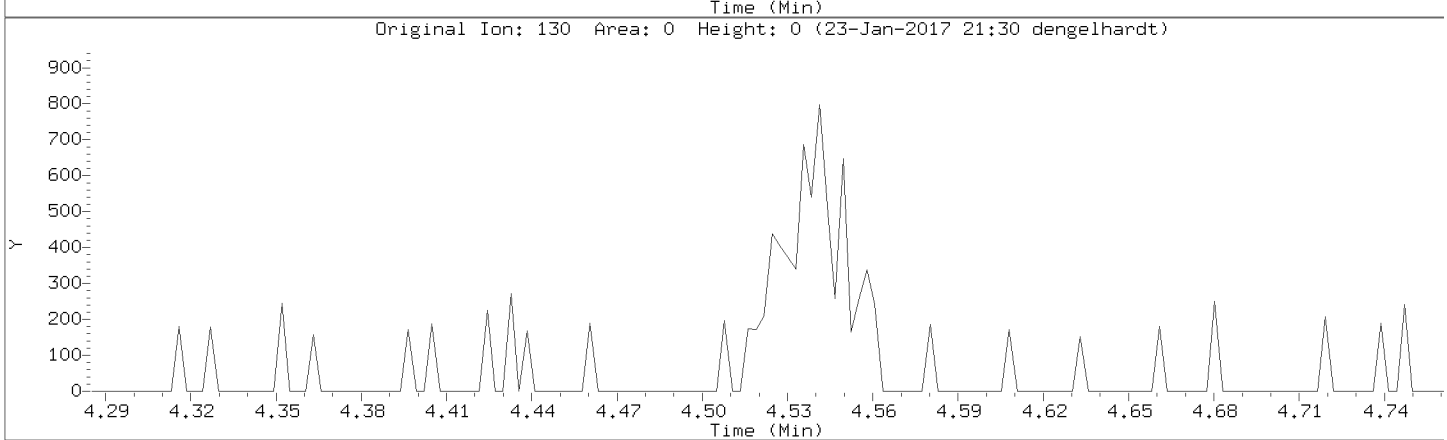
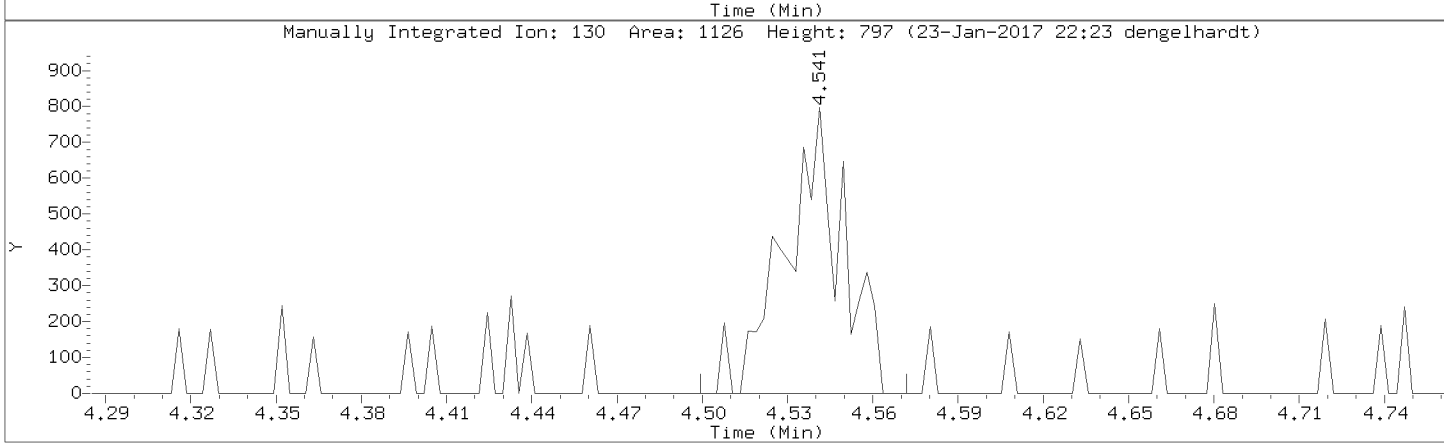
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Trichloroethene Review Code: NI
CAS Number: 79-01-6









Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
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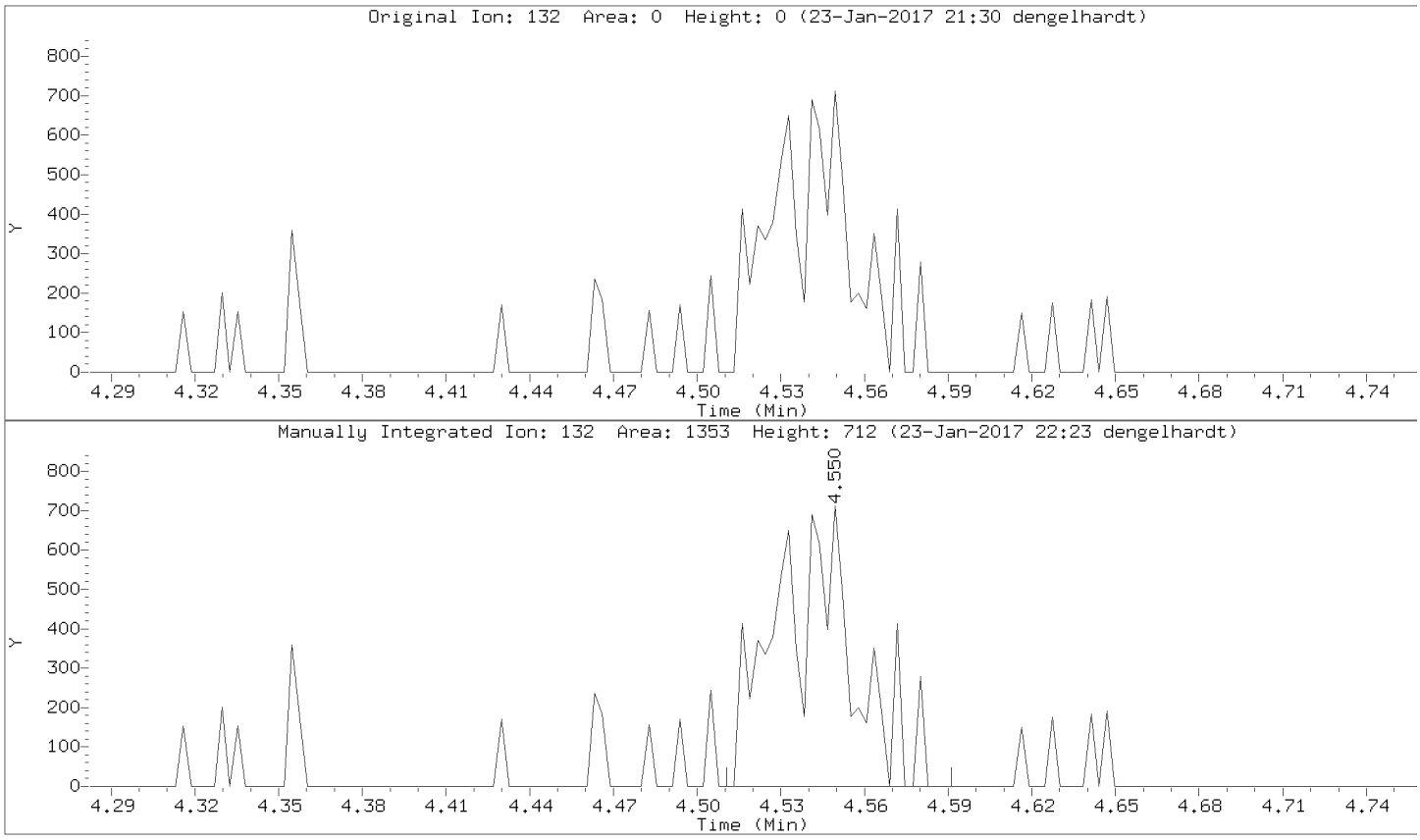
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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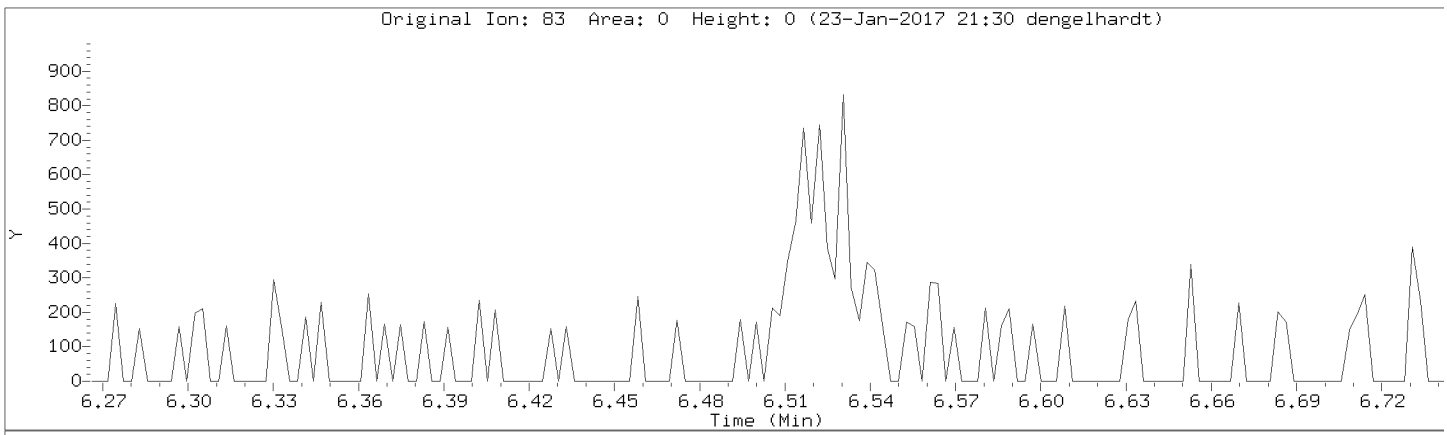
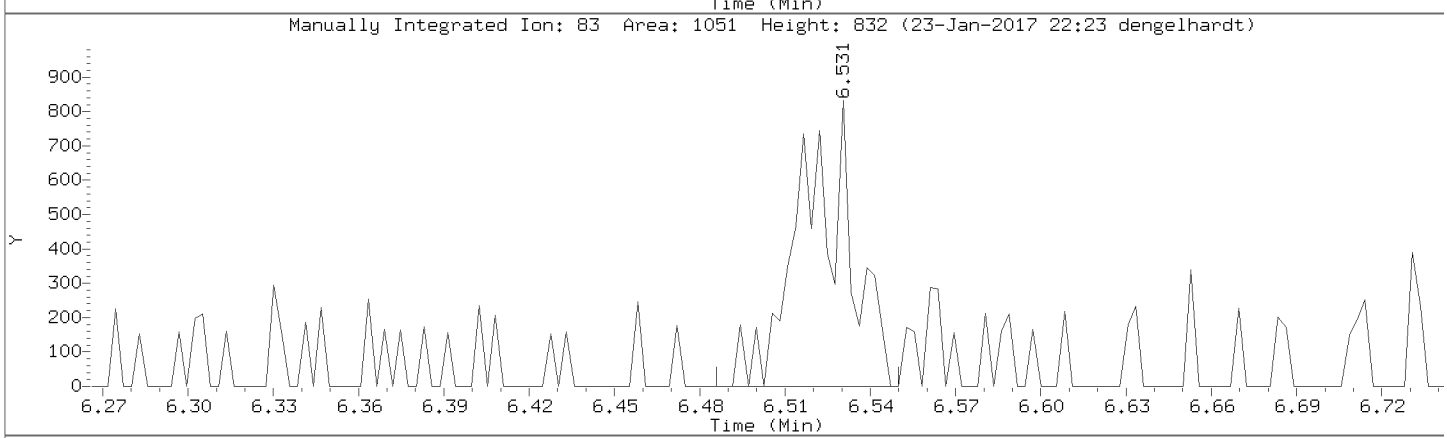
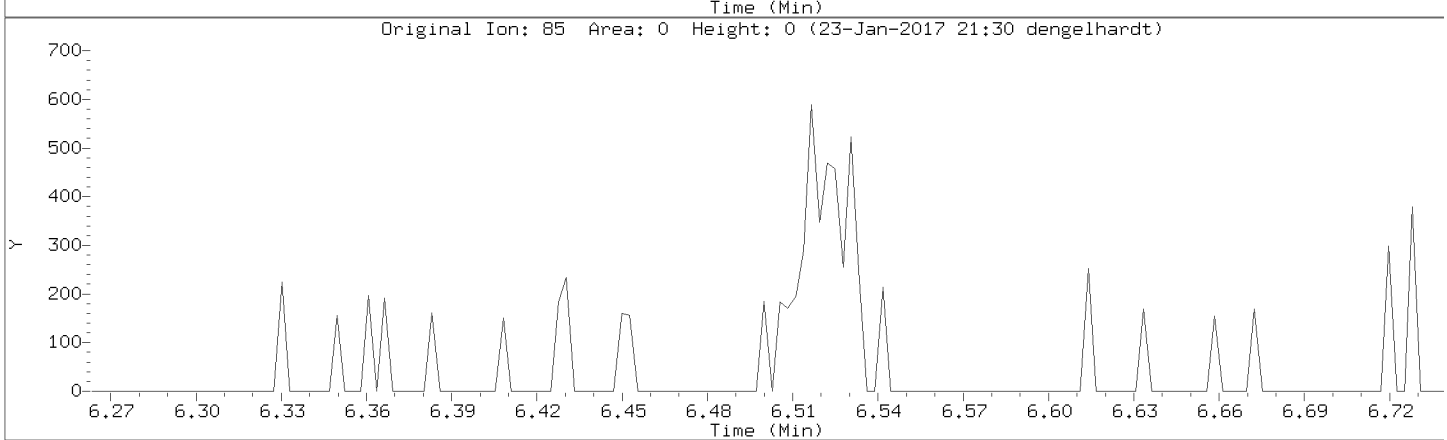
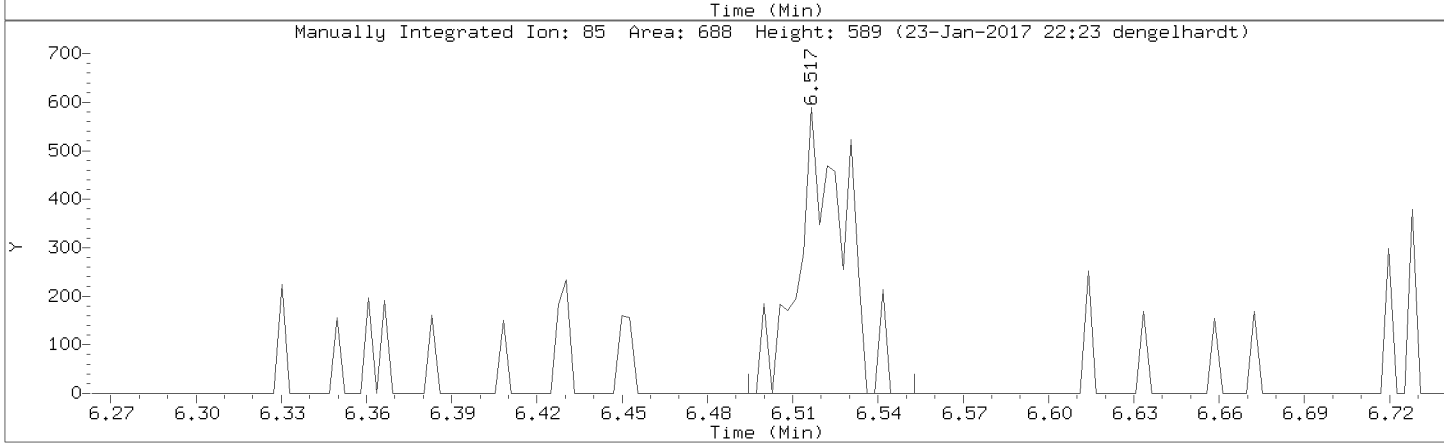
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,2-Trichloroethane Review Code: NI
CAS Number: 79-00-5









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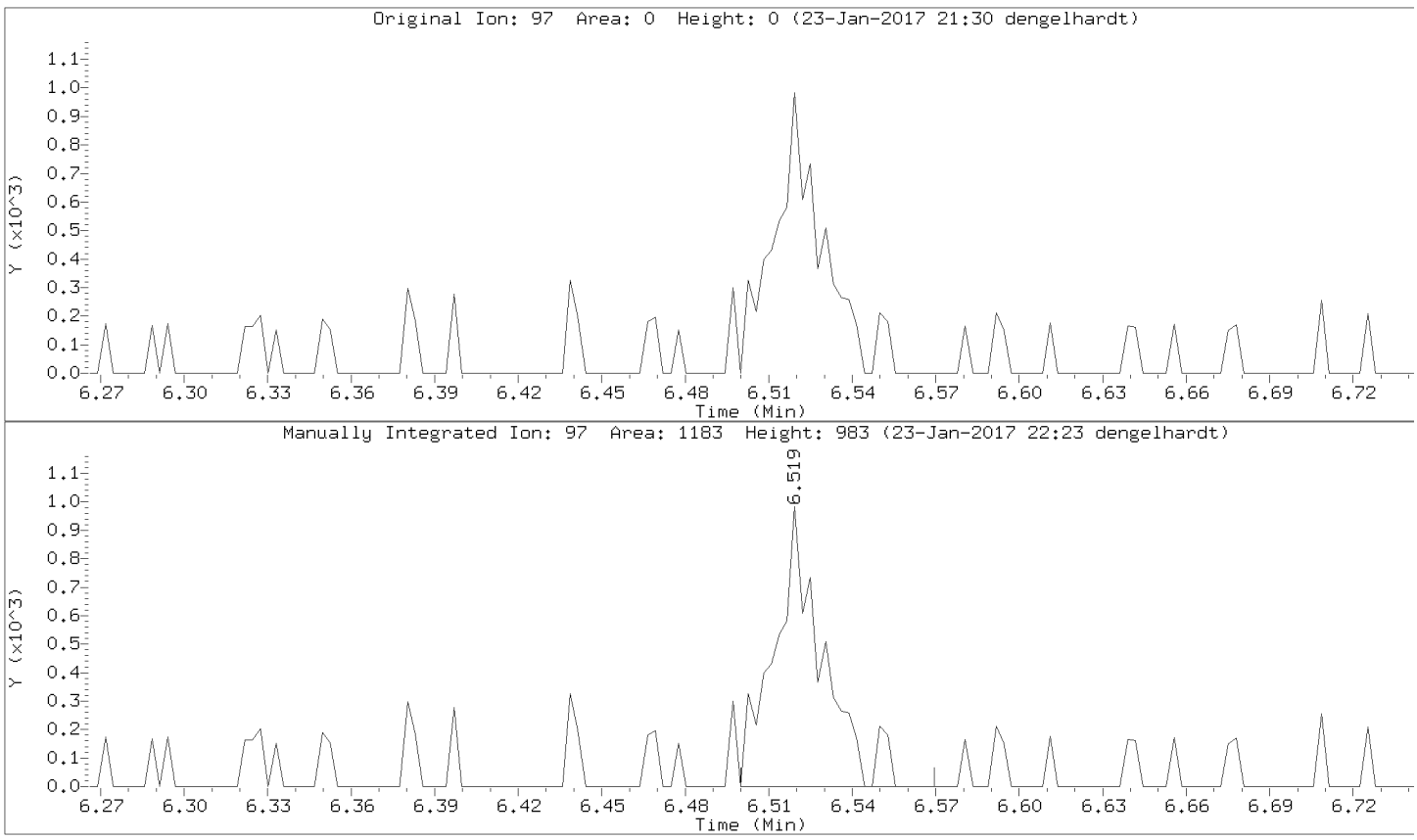
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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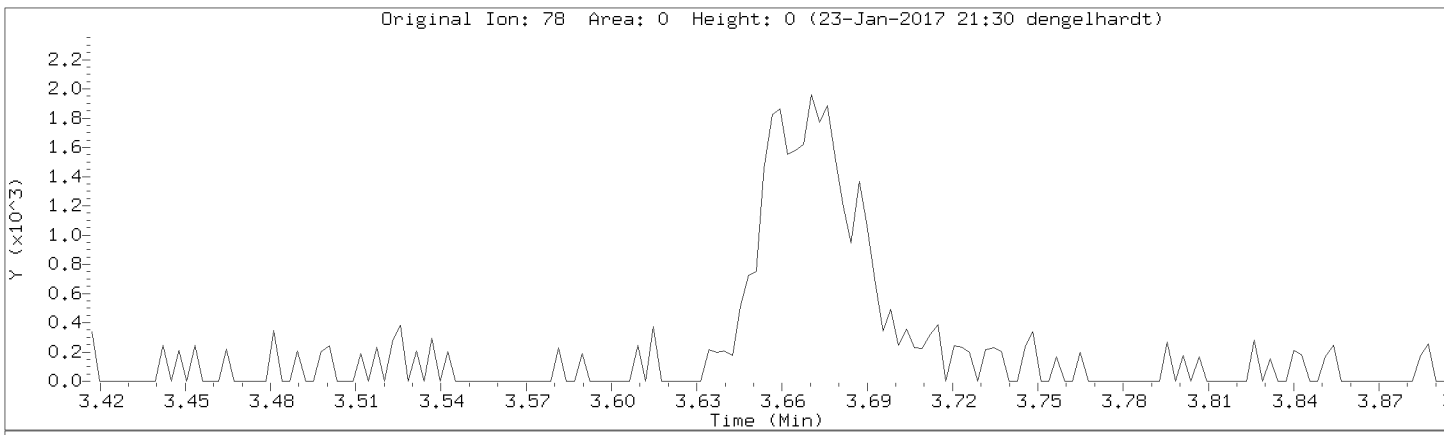
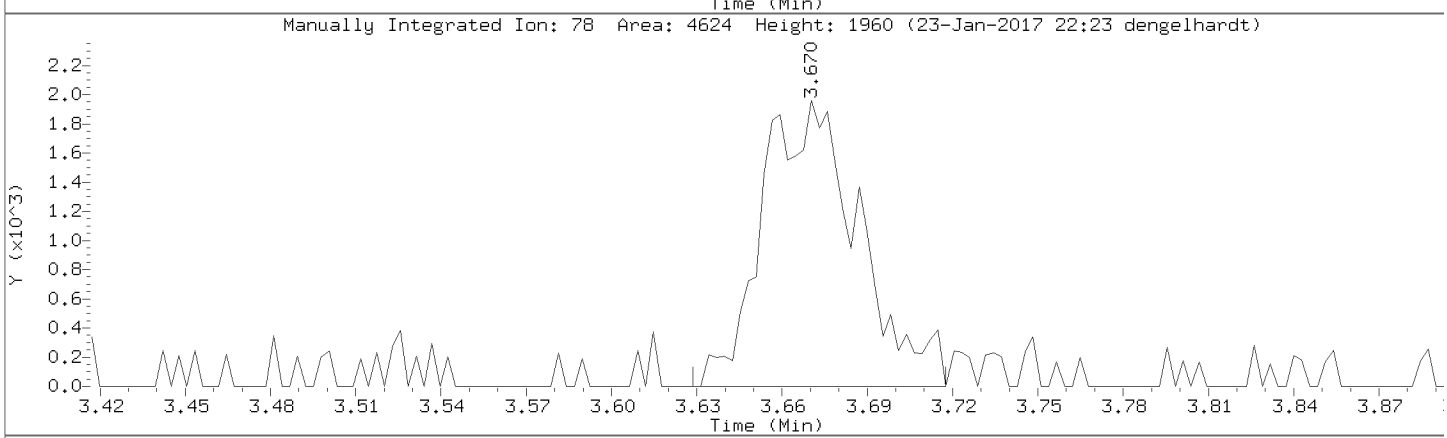
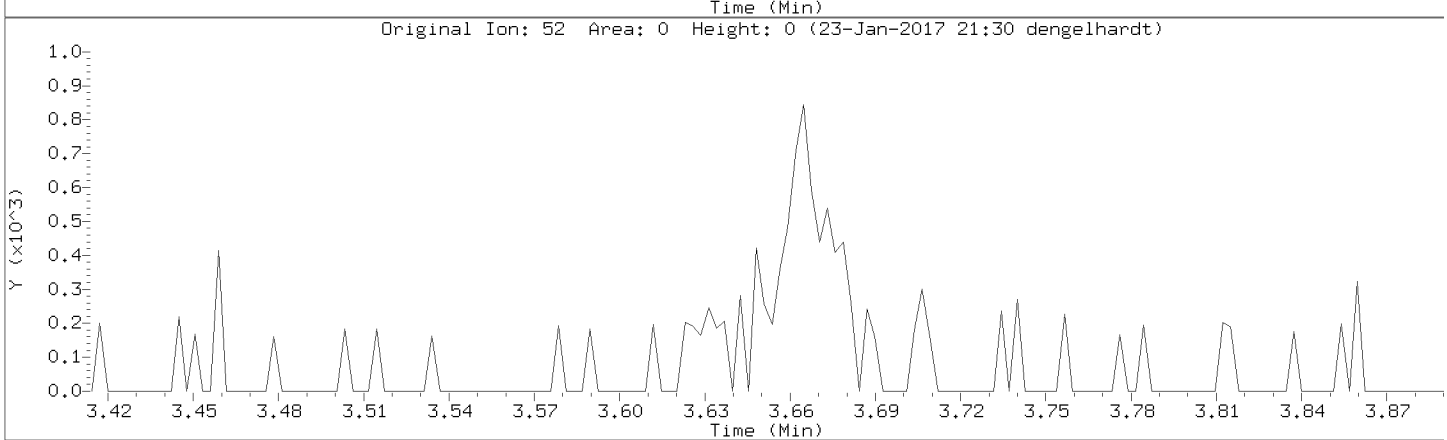
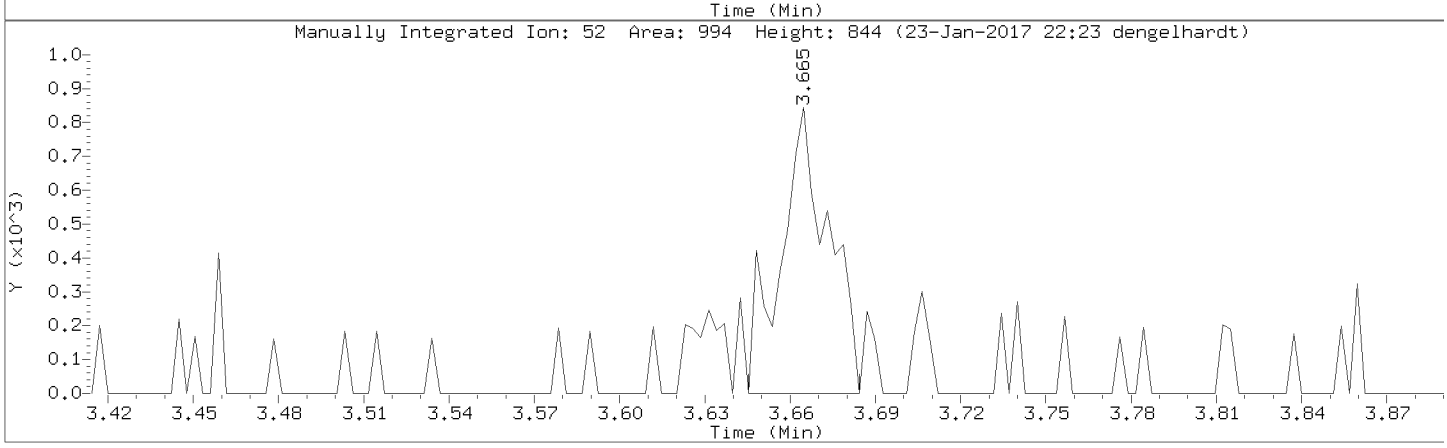
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Benzene Review Code: NI
CAS Number: 71-43-2









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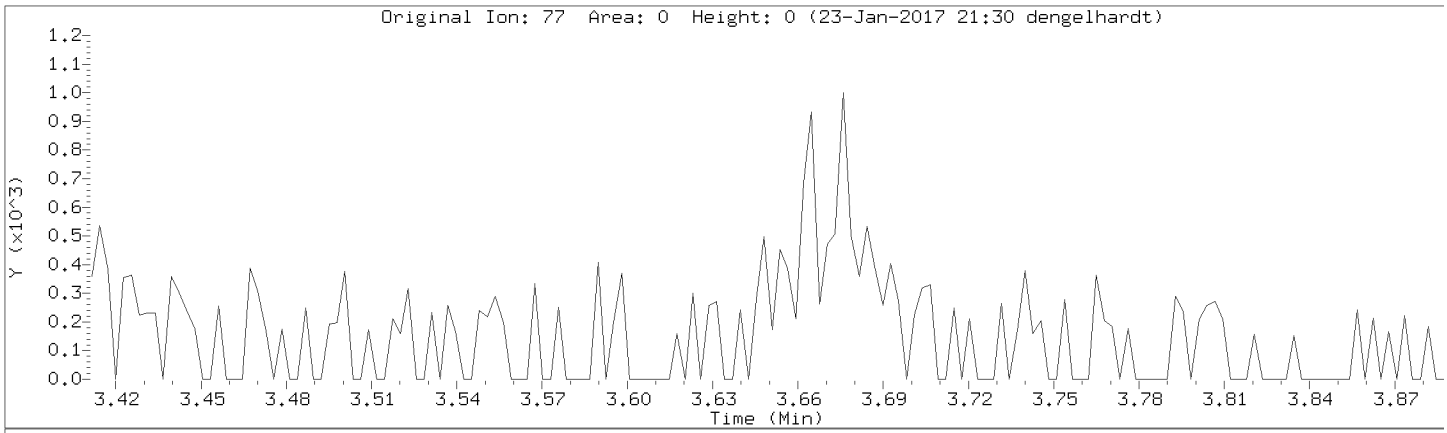
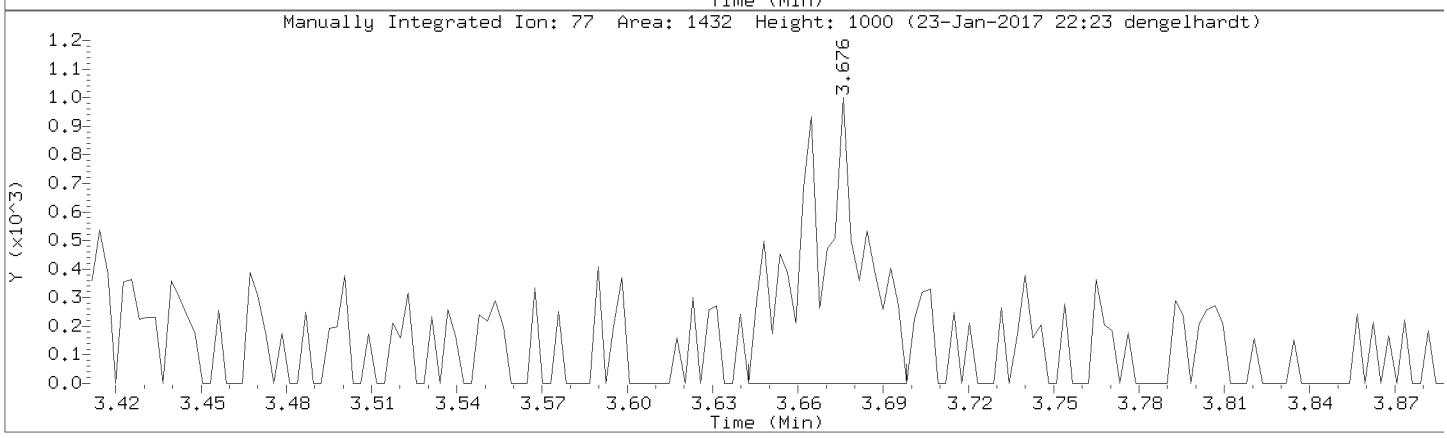
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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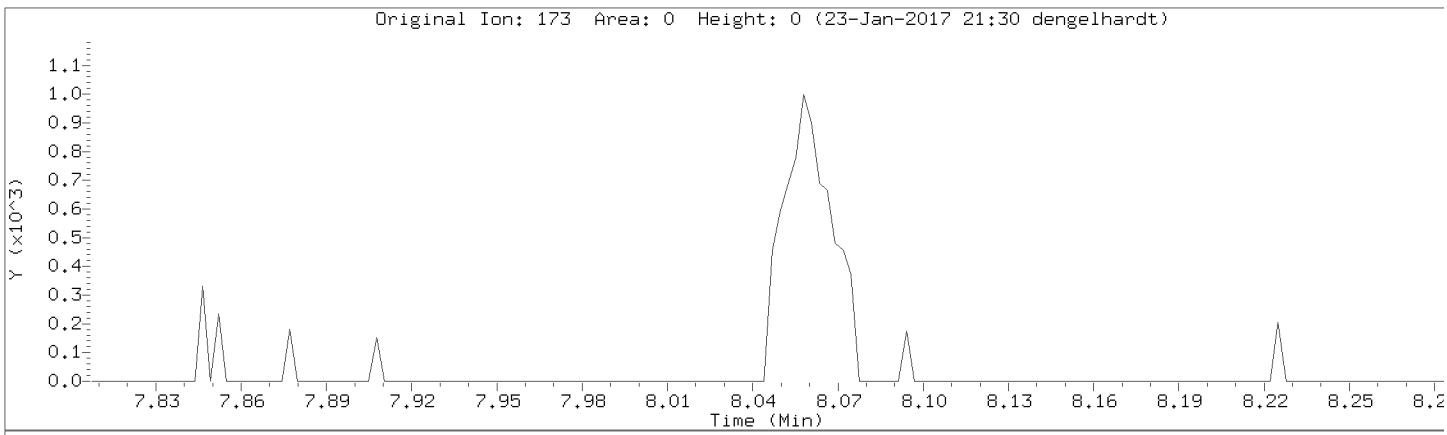
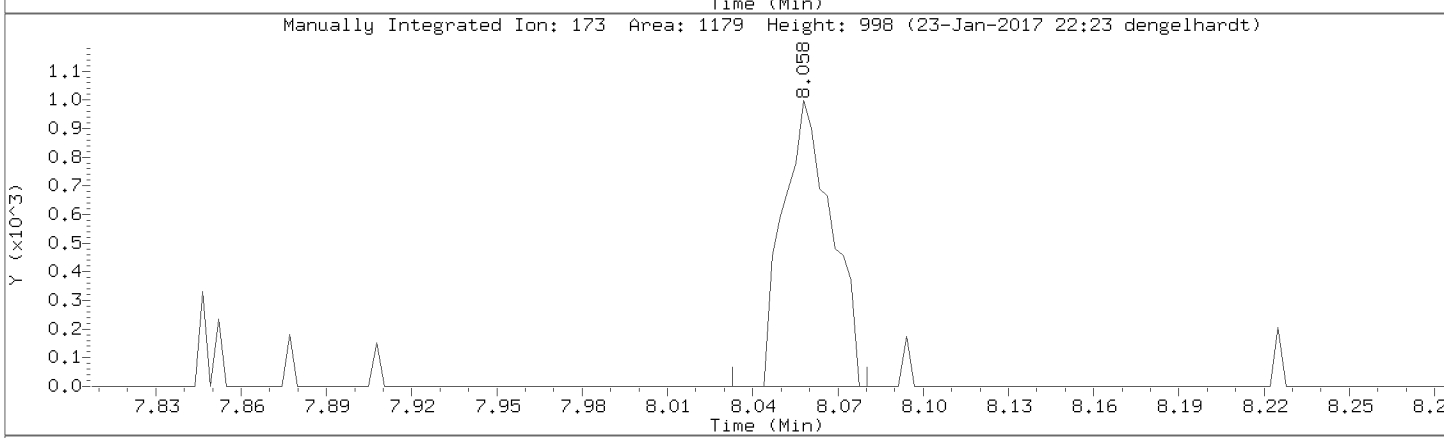
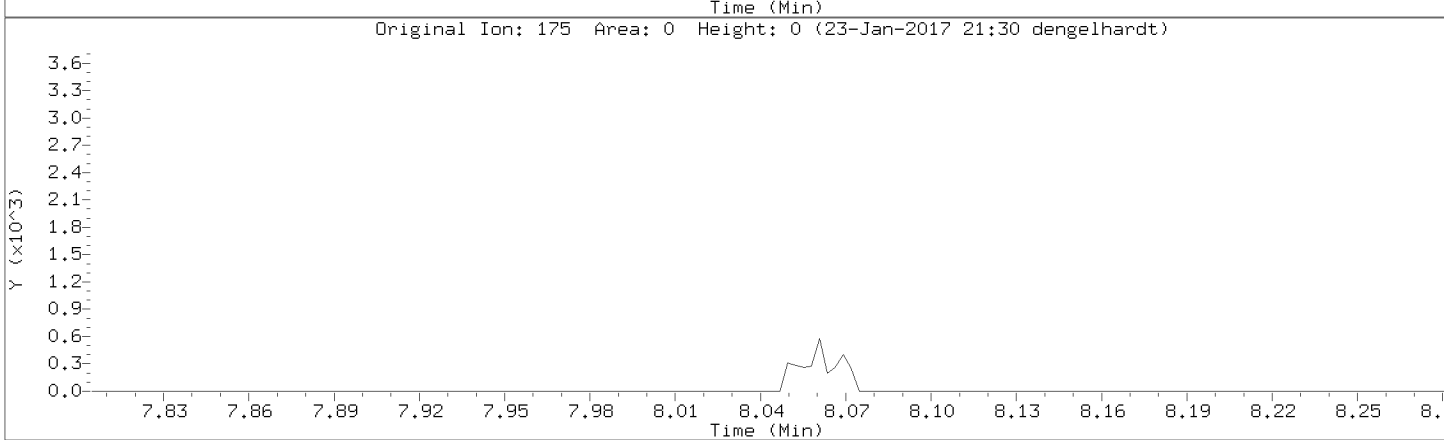
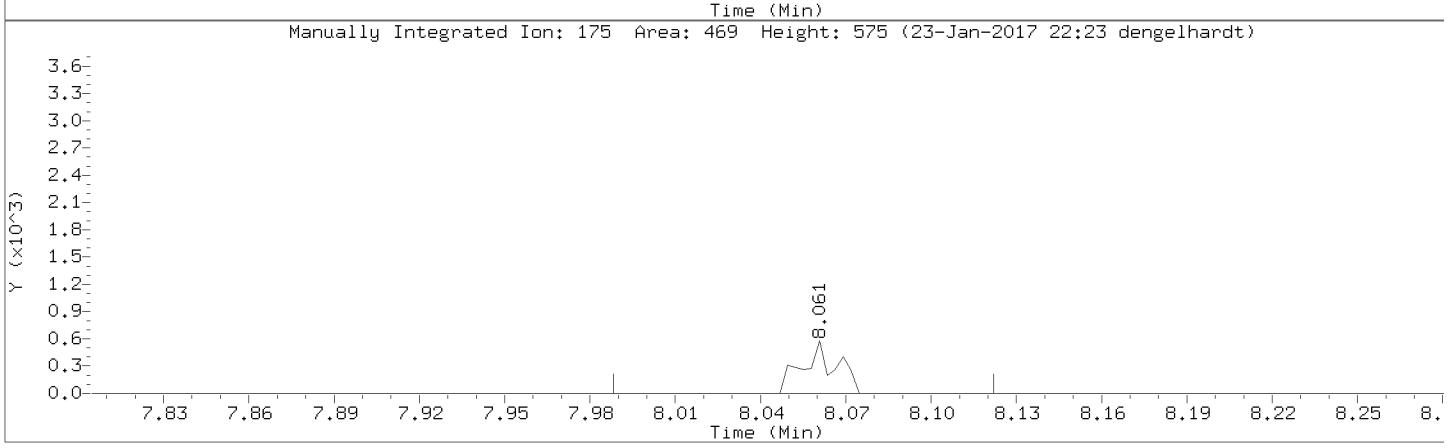
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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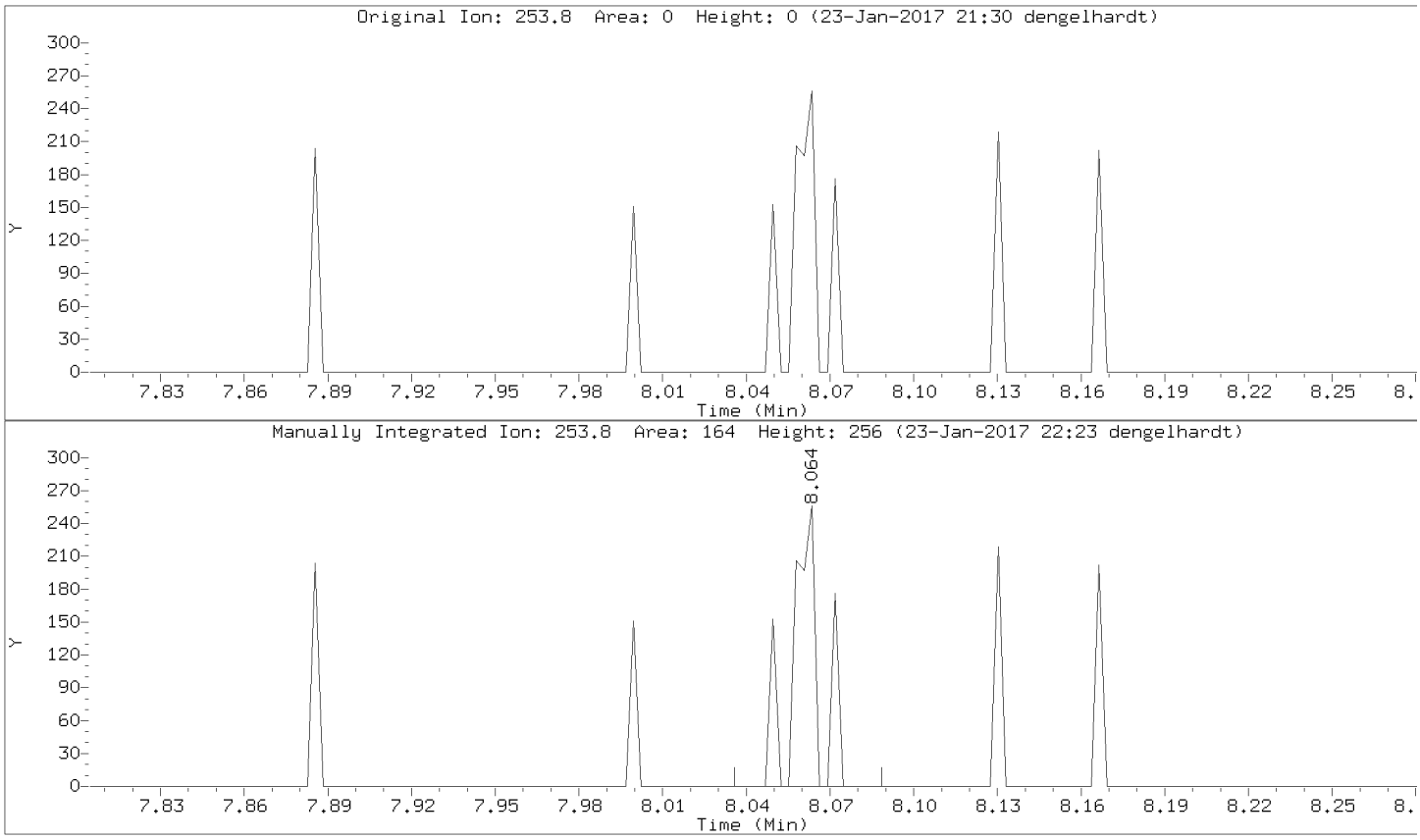
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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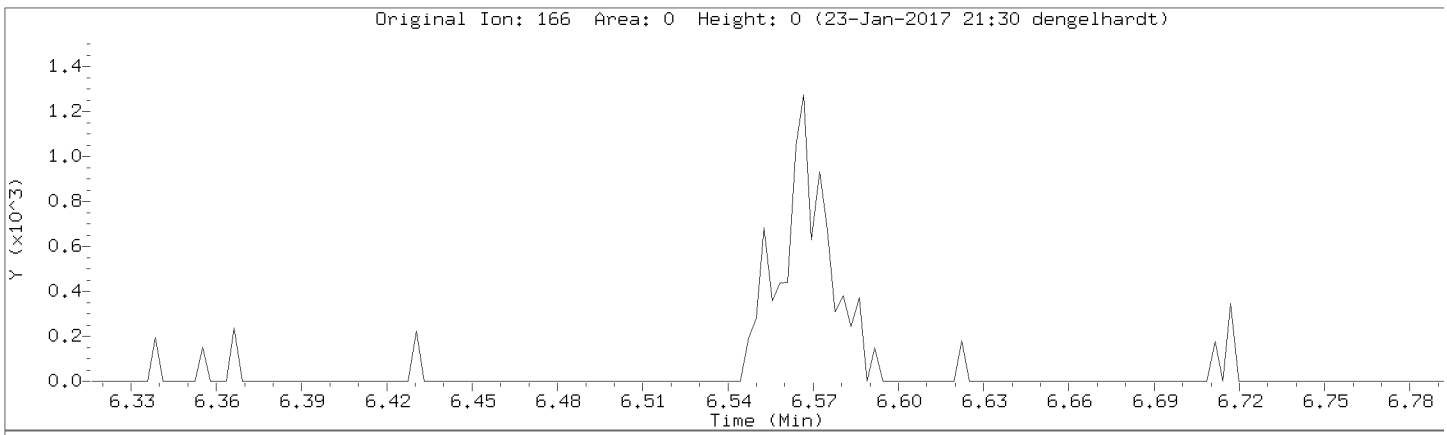
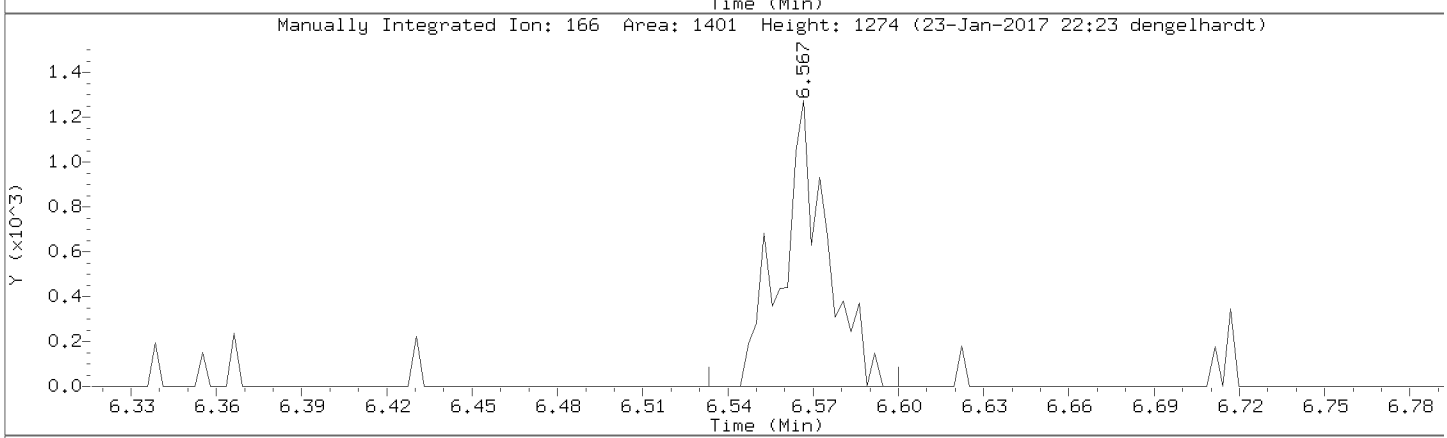
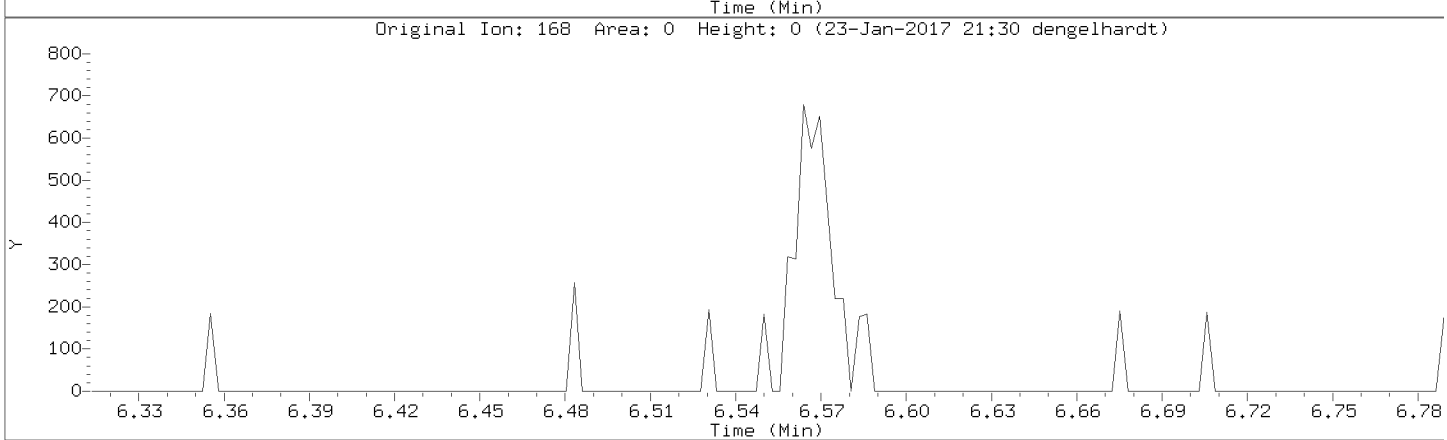
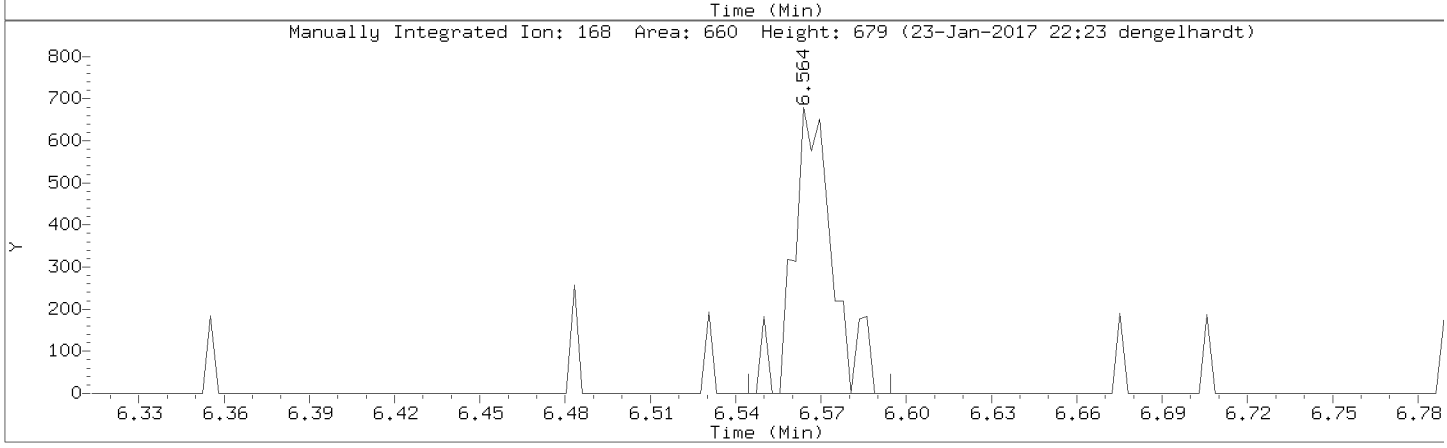
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Tetrachloroethene Review Code: NI
CAS Number: 127-18-4









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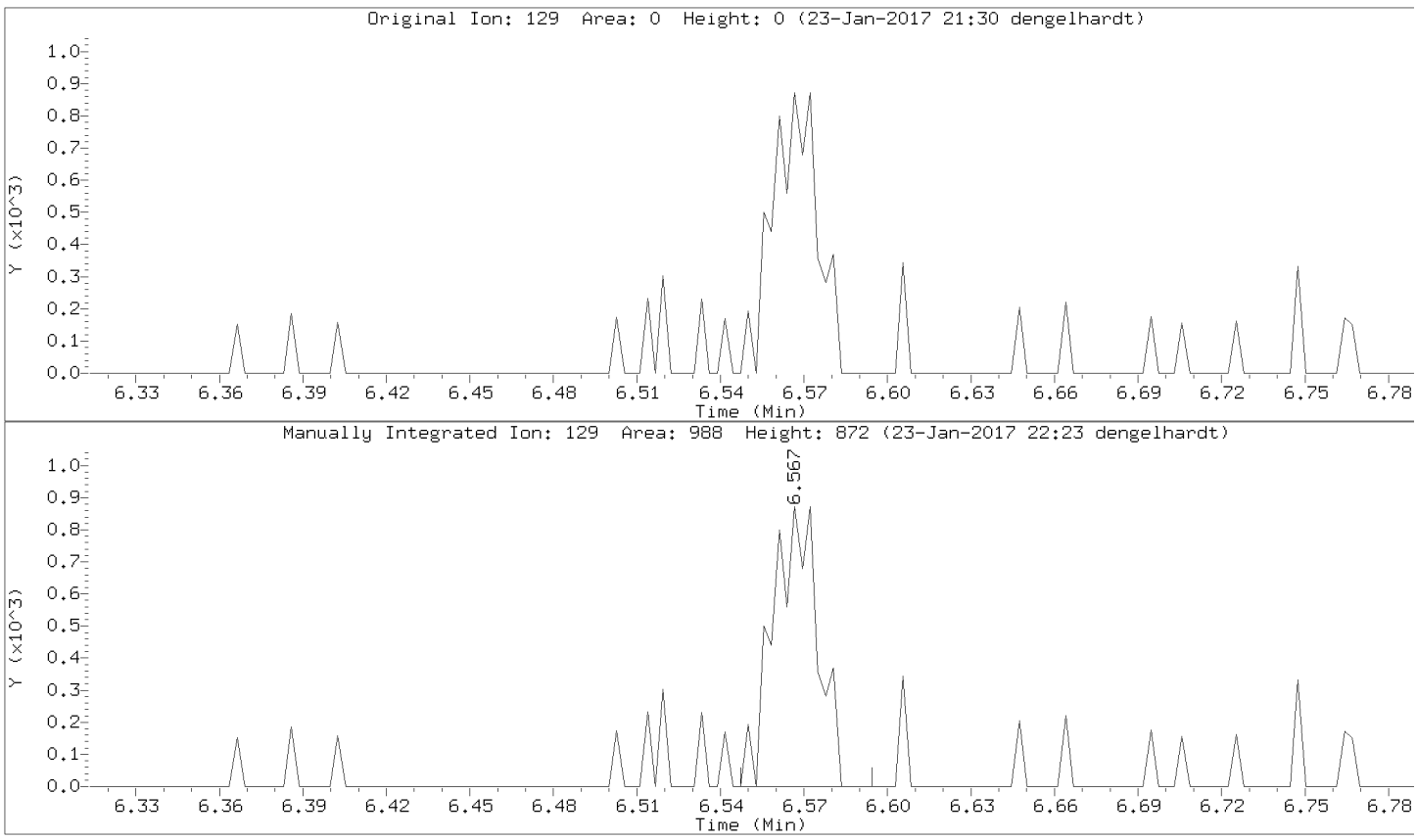
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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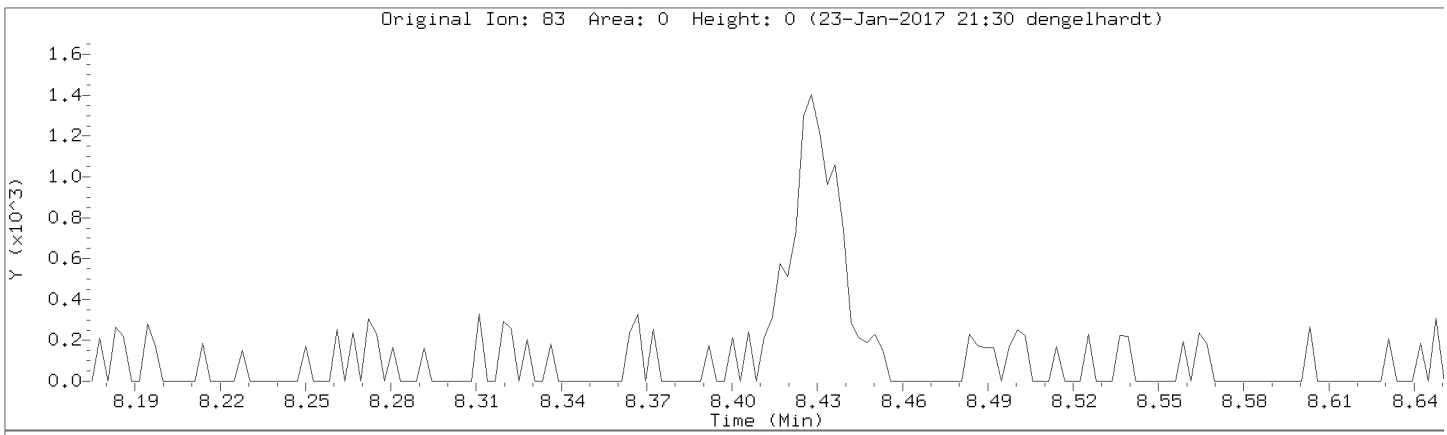
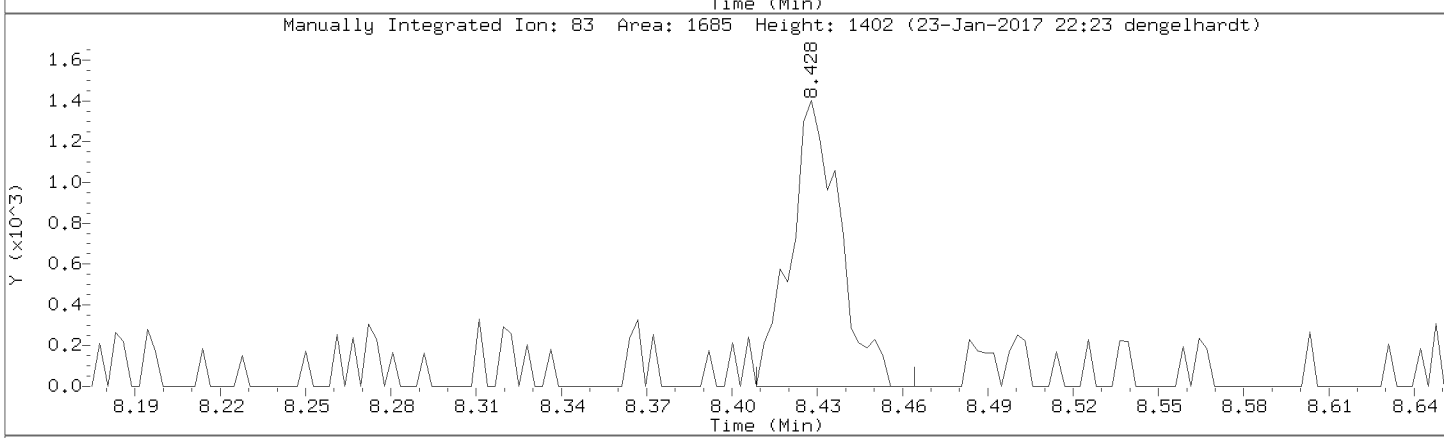
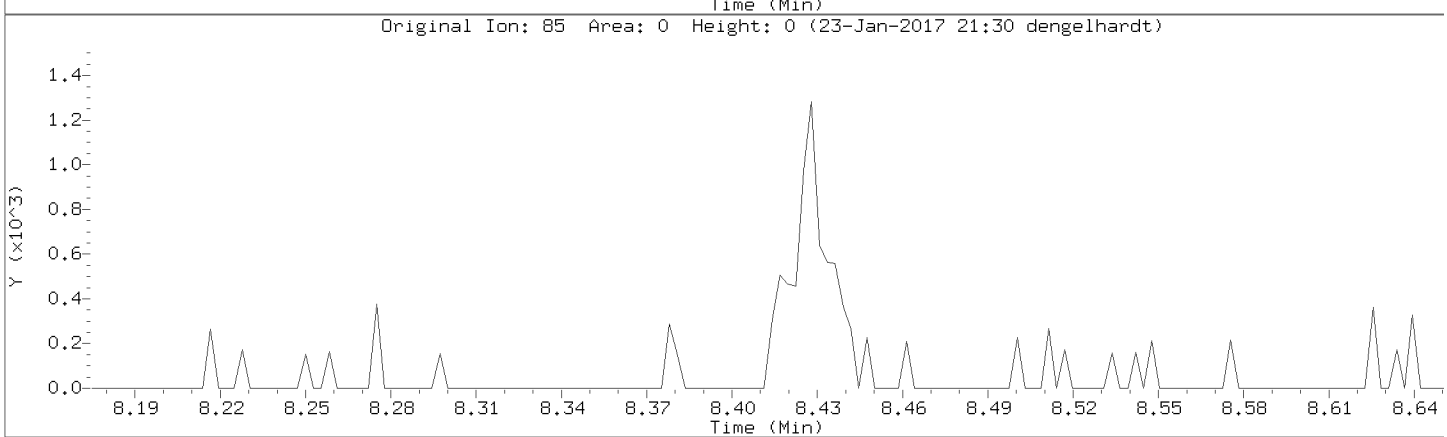
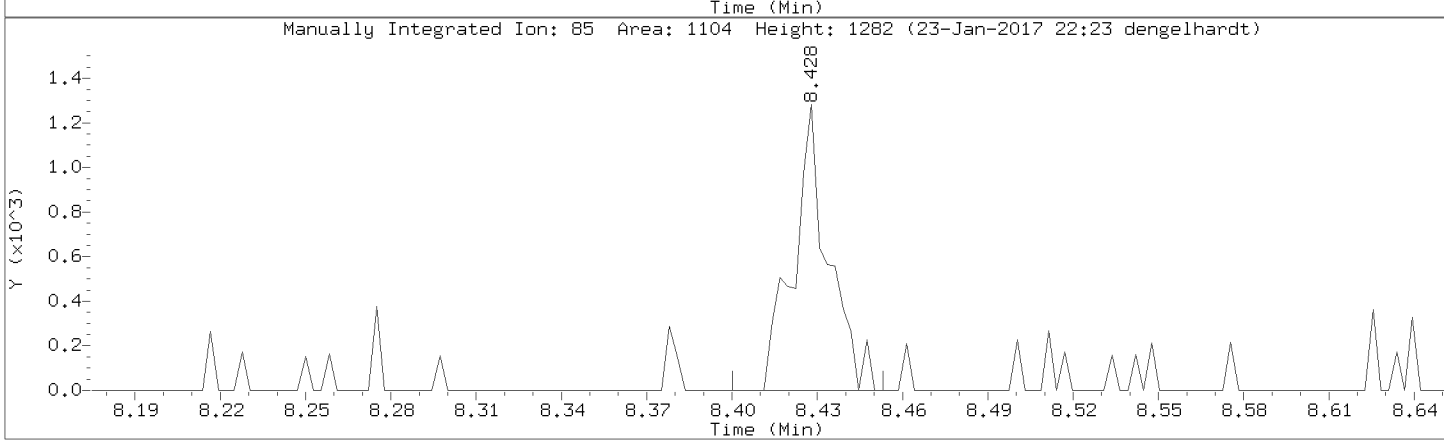
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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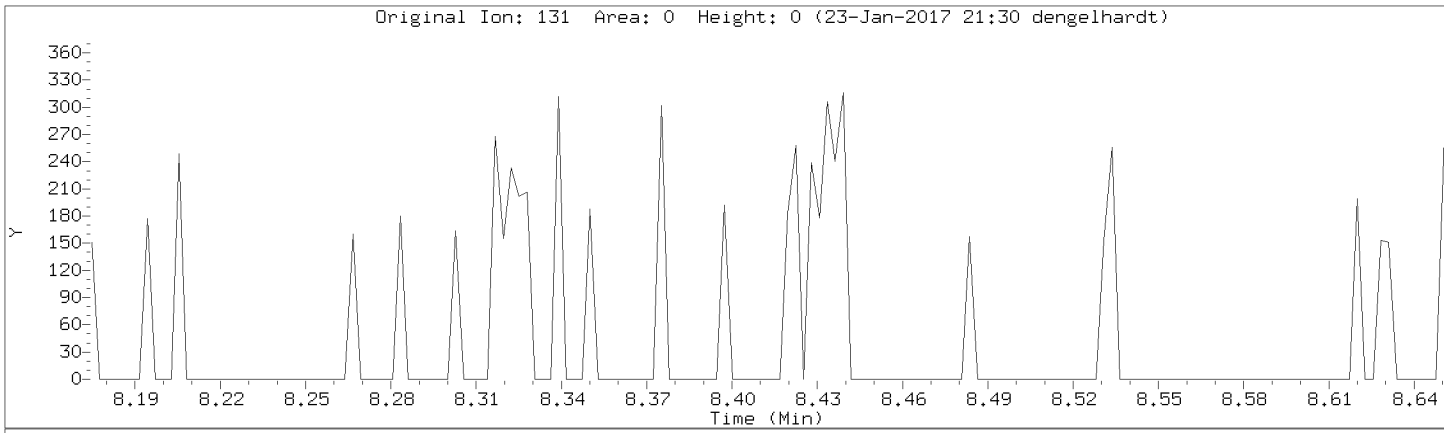
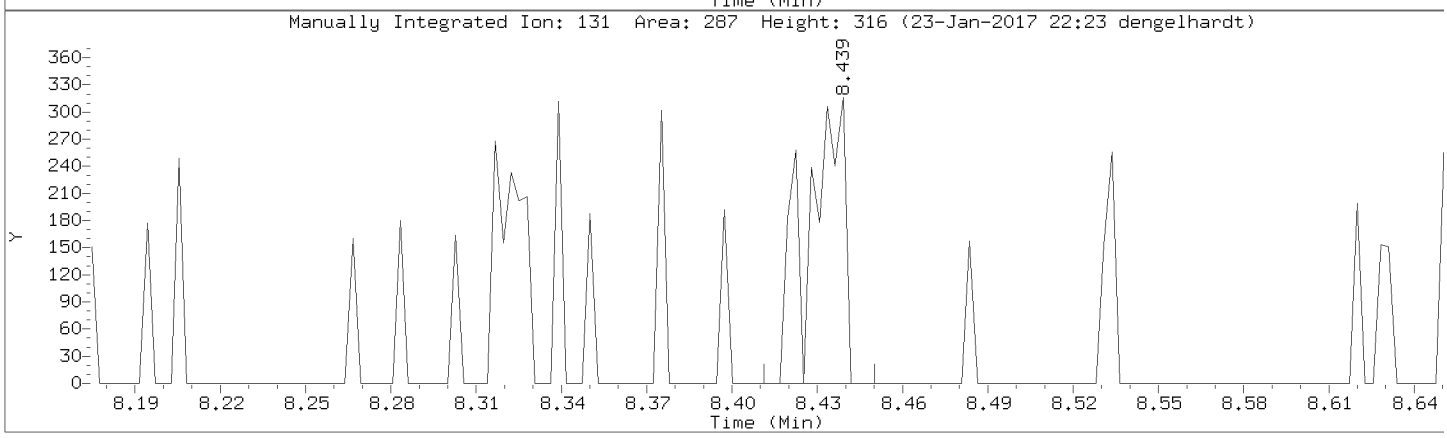
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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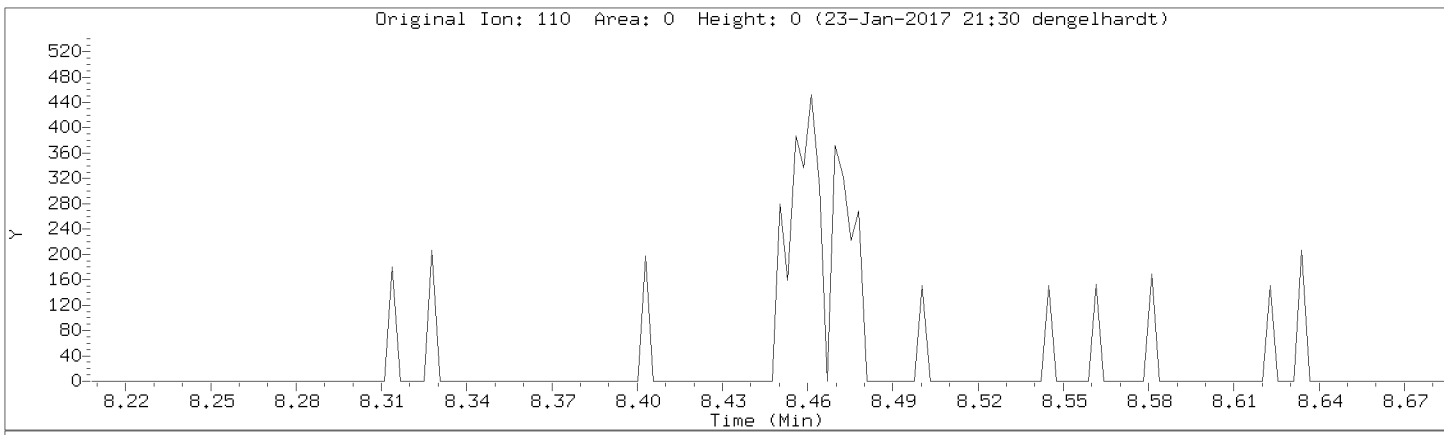
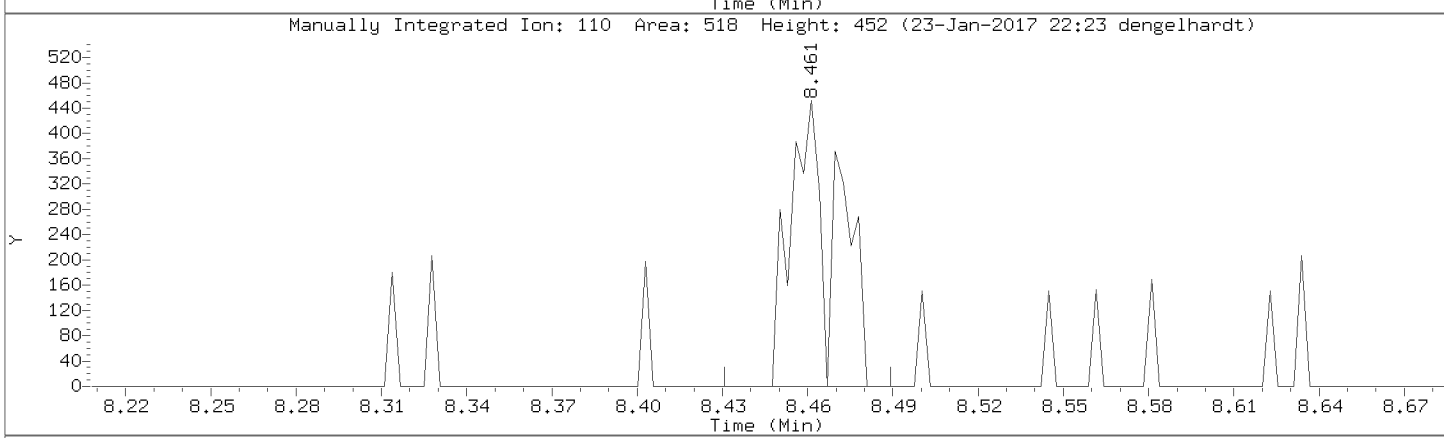
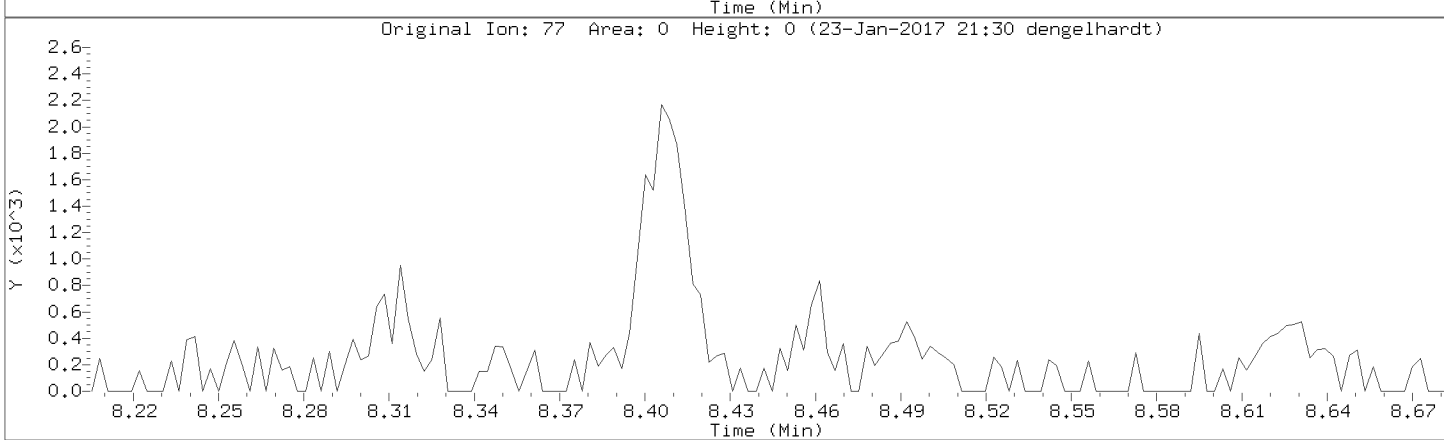
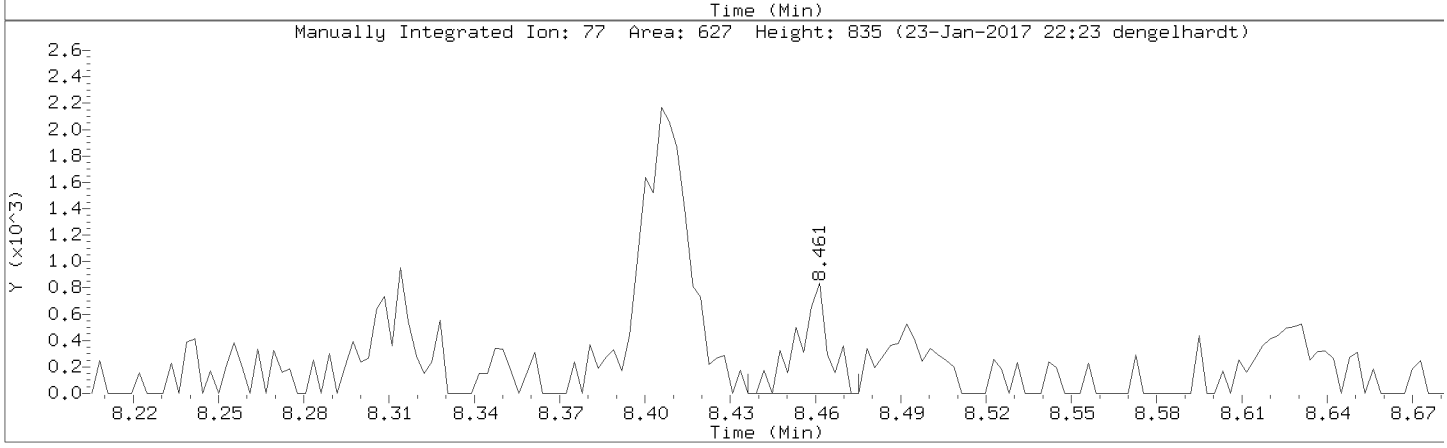
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,3-Trichloropropane Review Code: NI
CAS Number: 96-18-4









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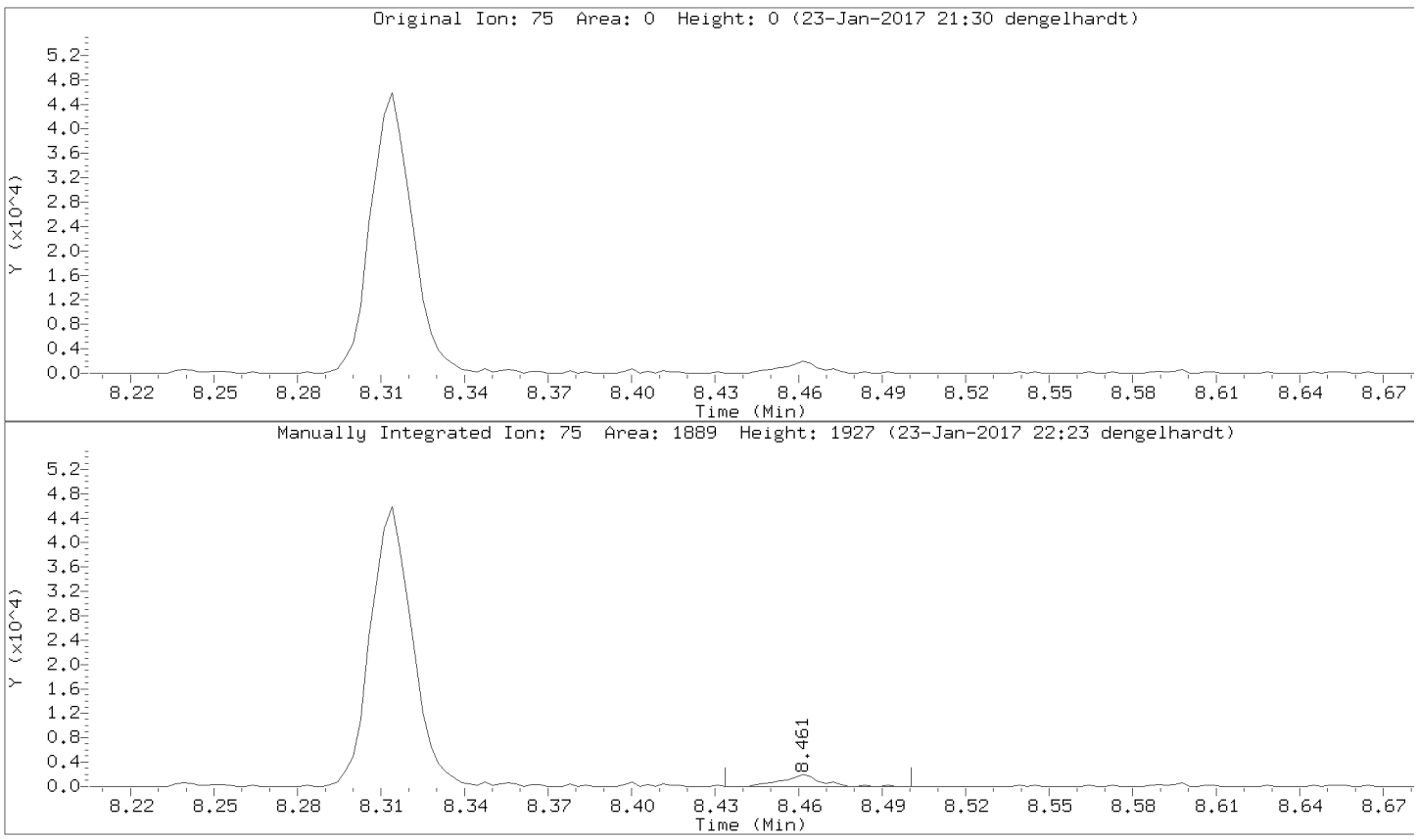
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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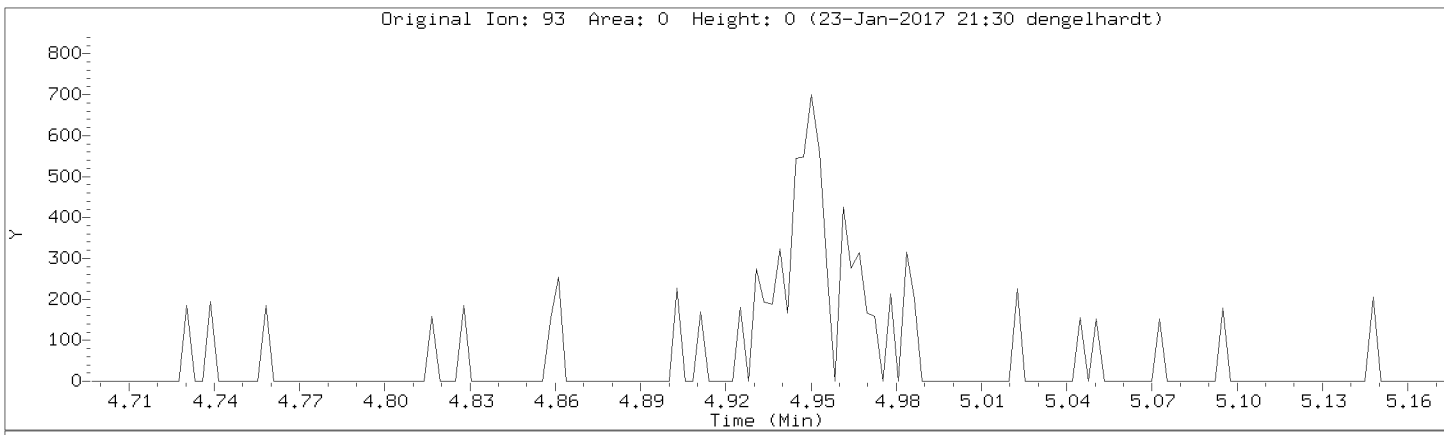
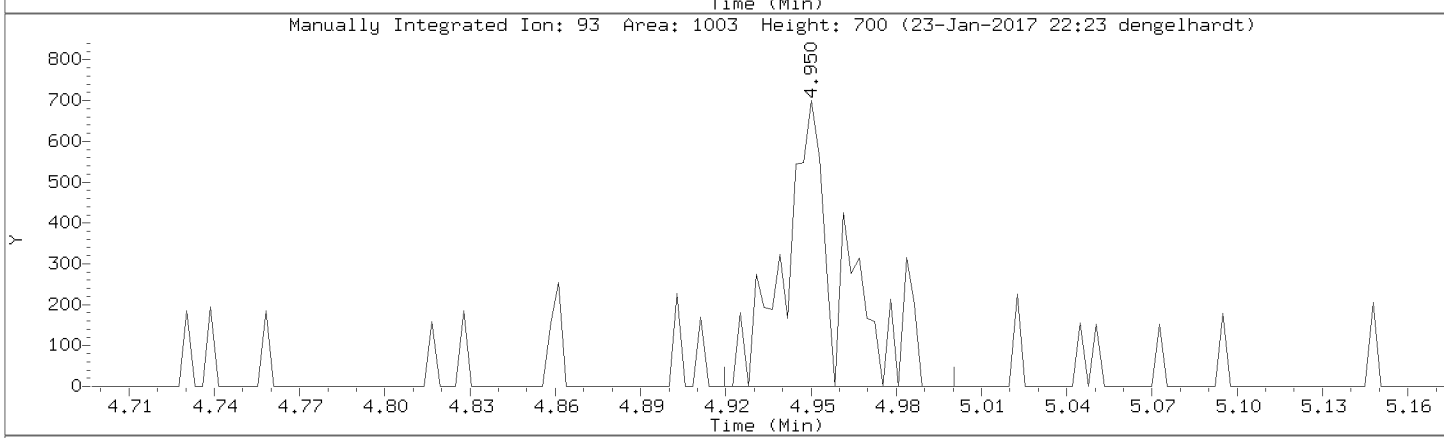
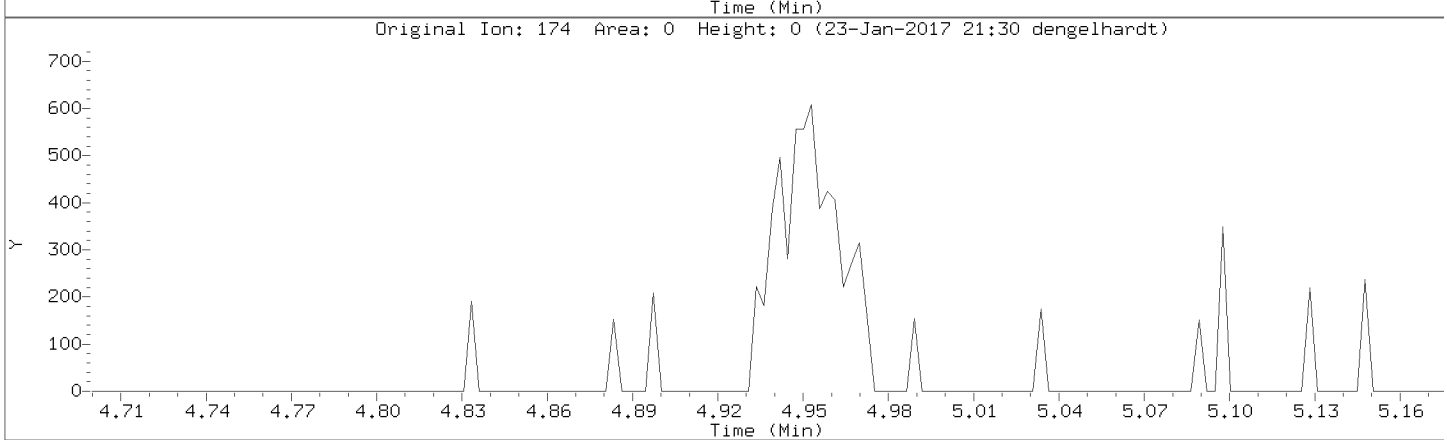
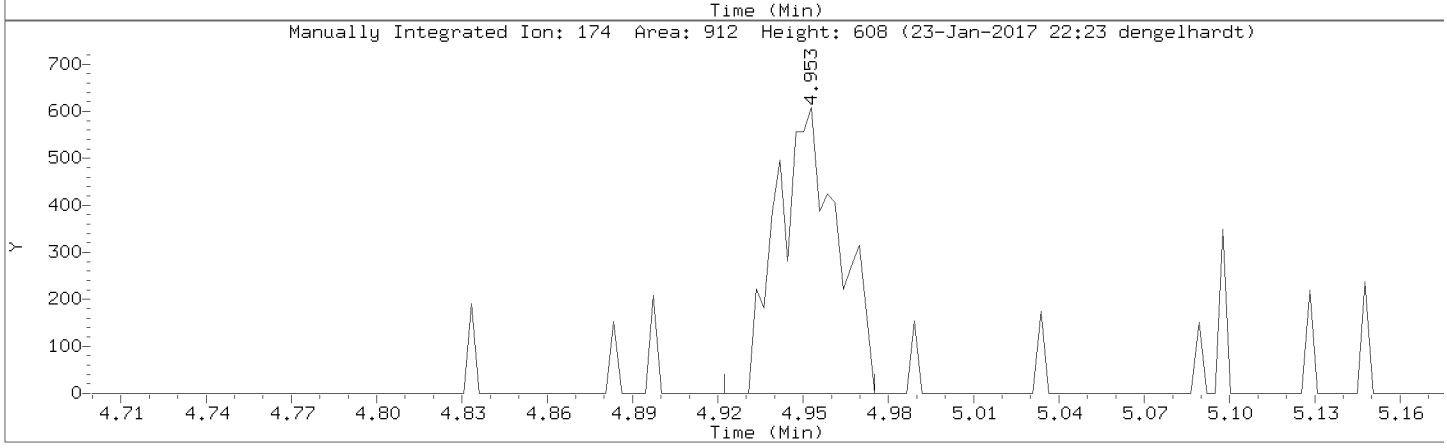
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Dibromomethane Review Code: NI
CAS Number: 74-95-3









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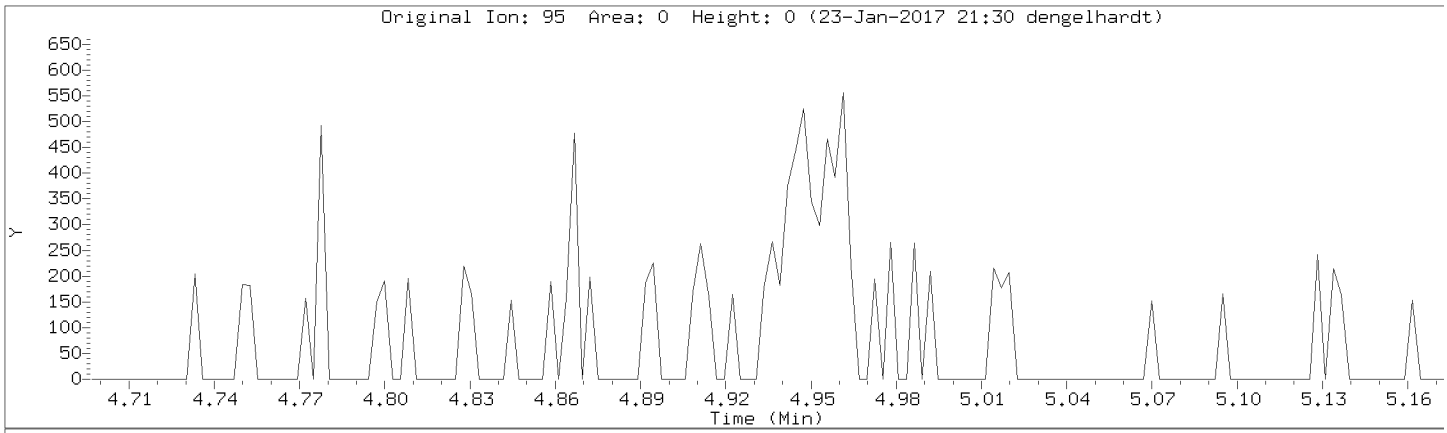
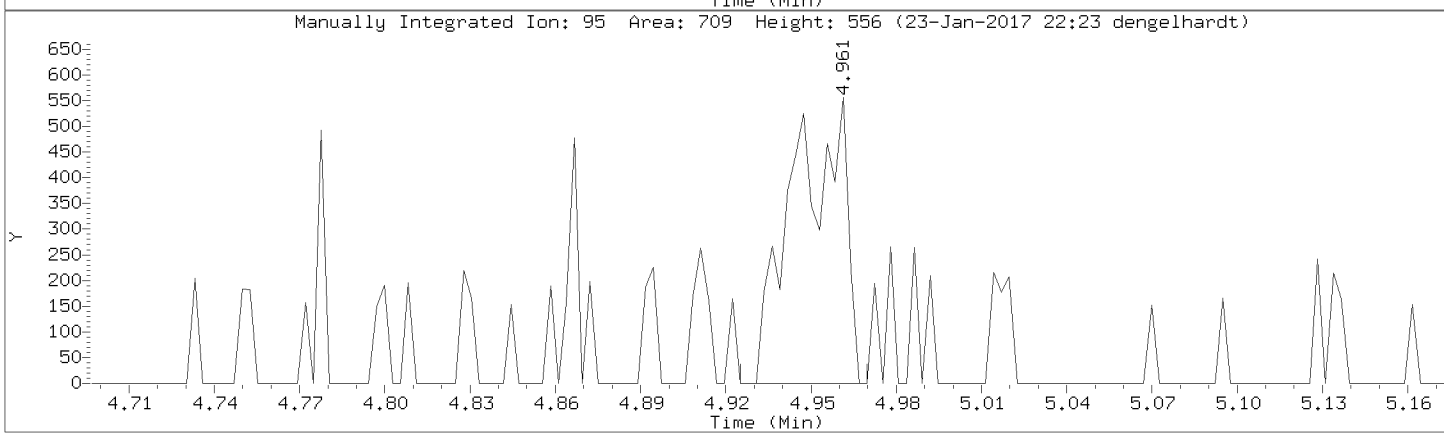
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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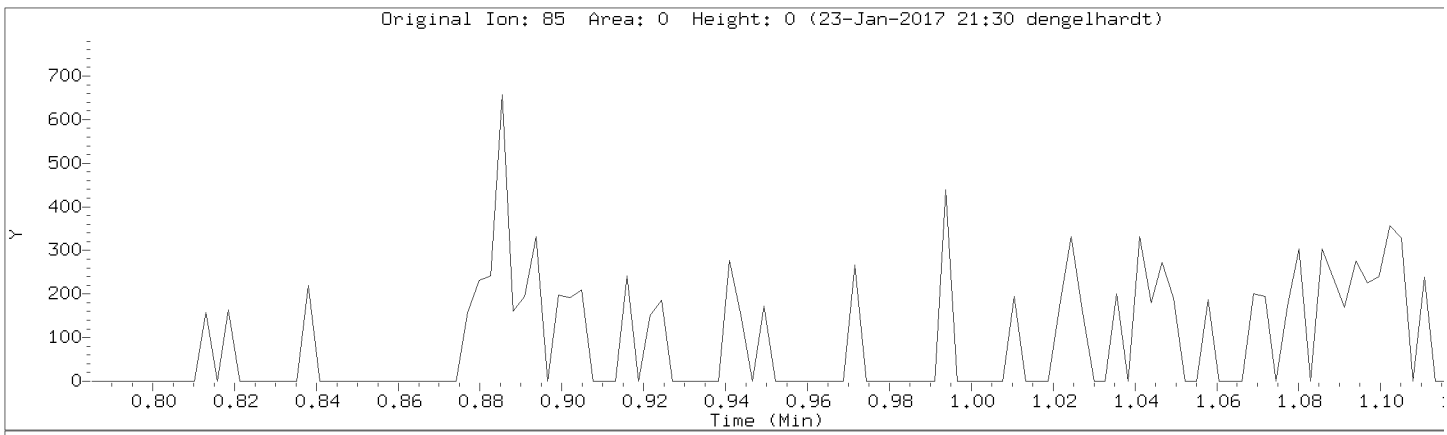
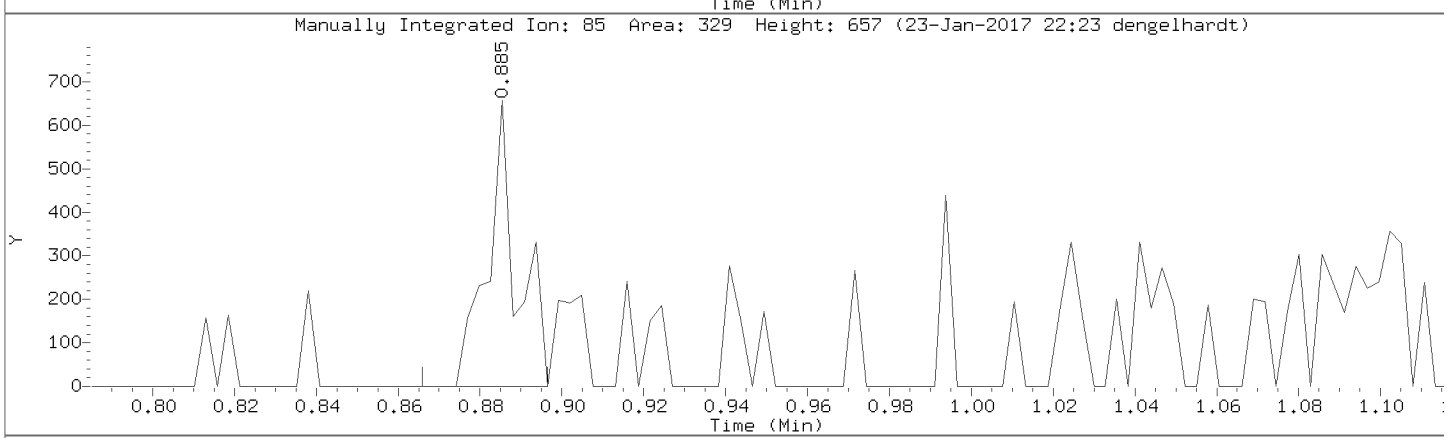
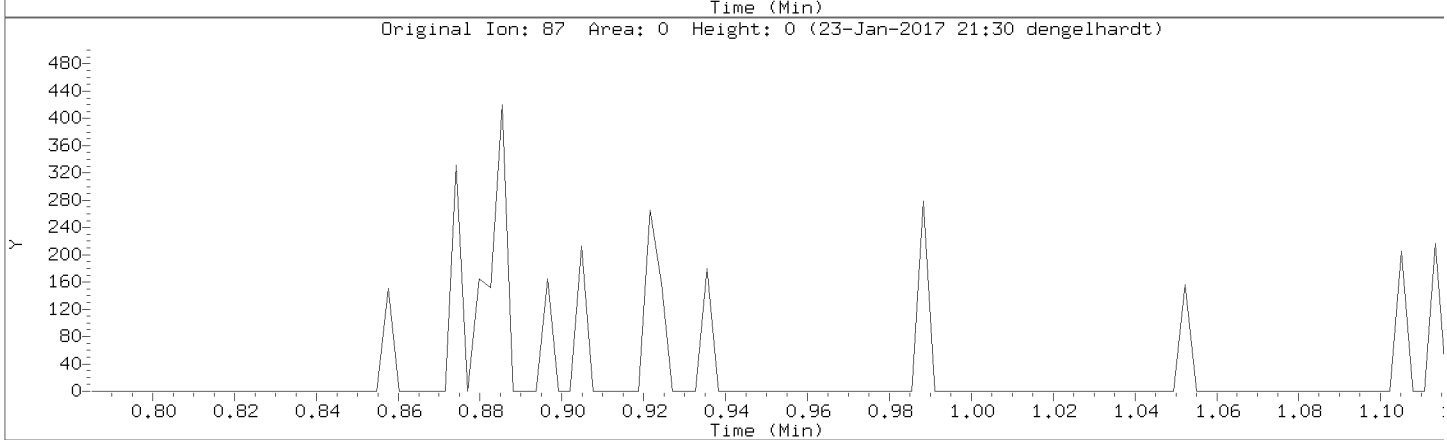
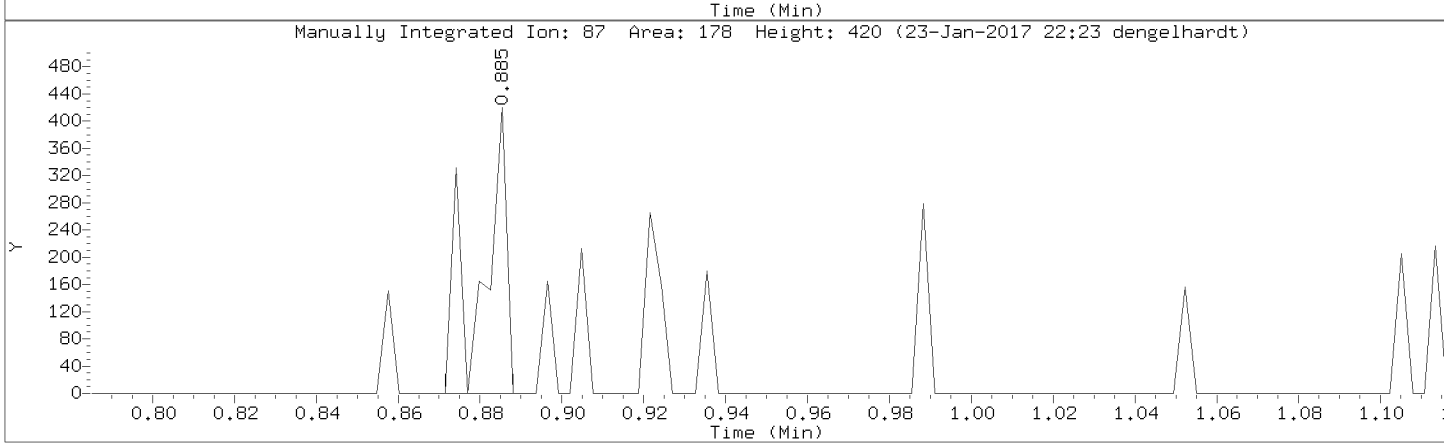
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 107-06-2









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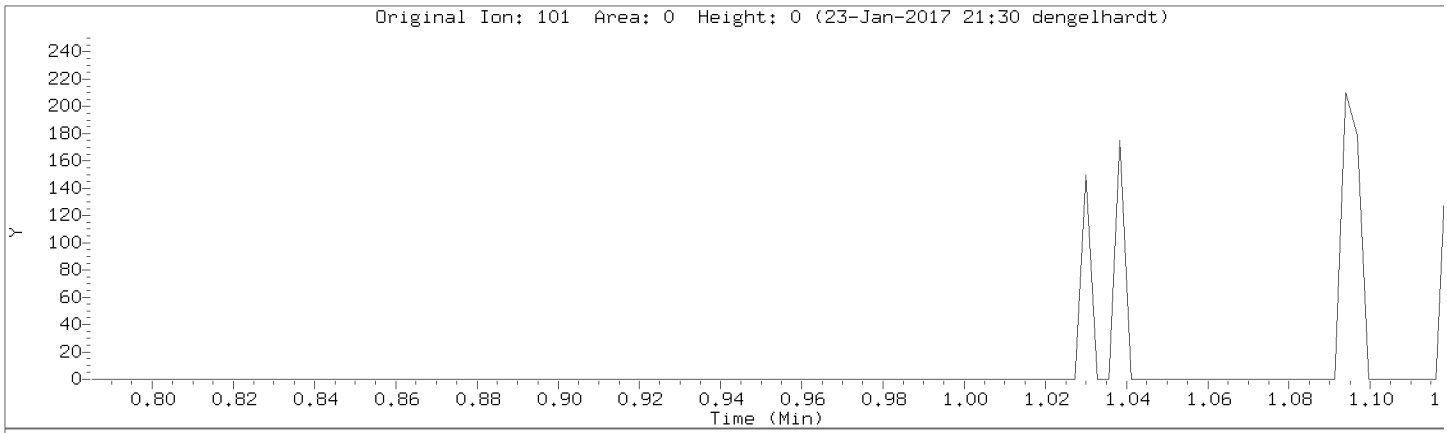
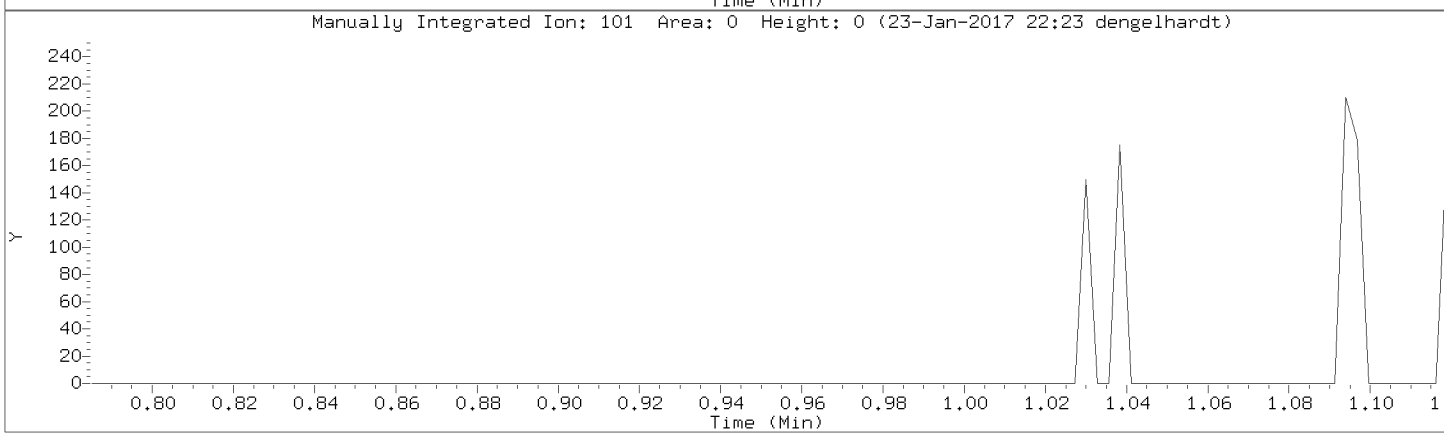
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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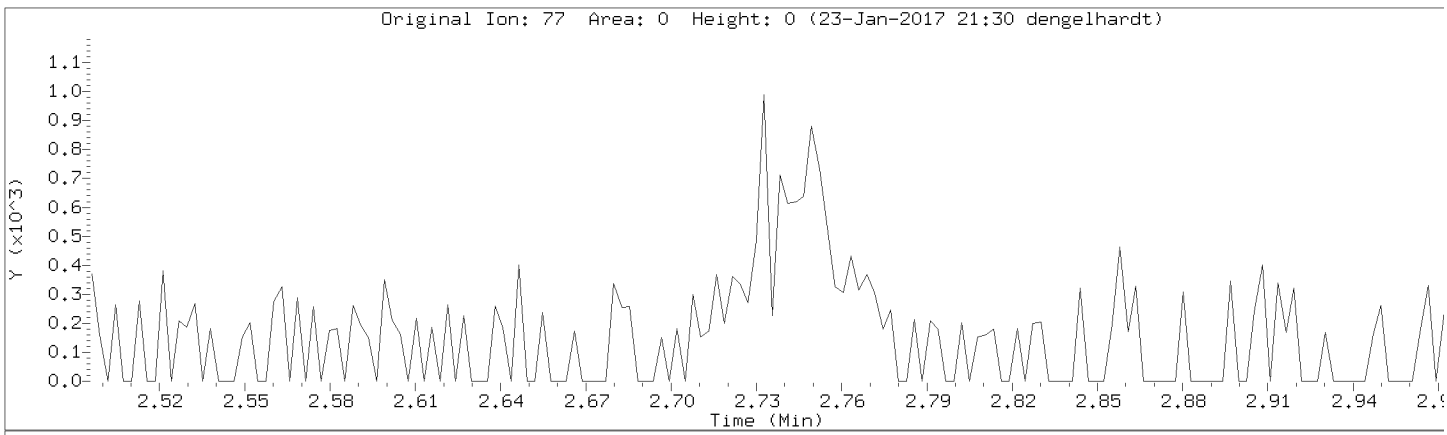
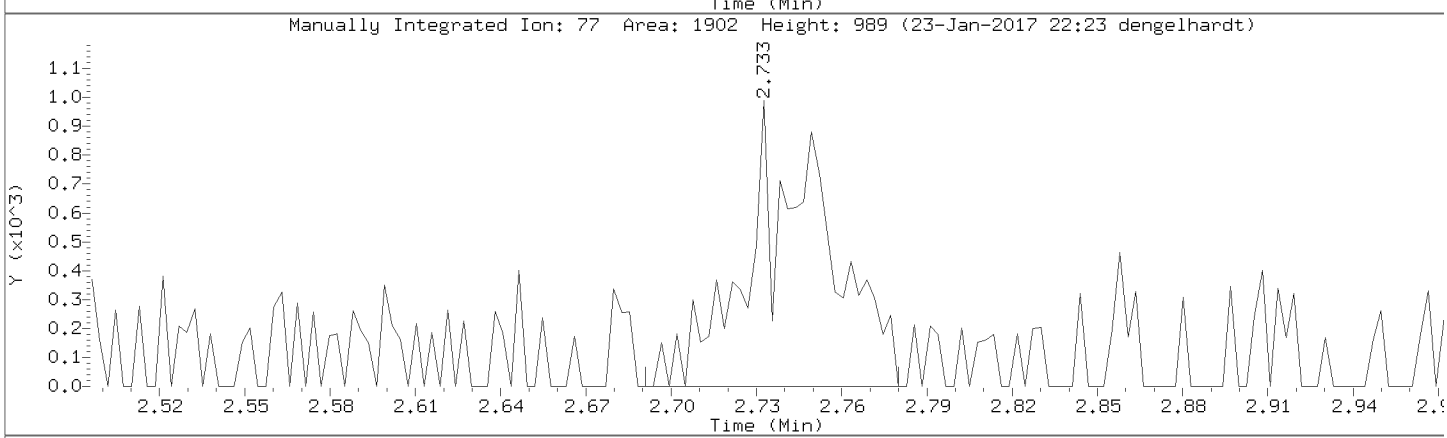
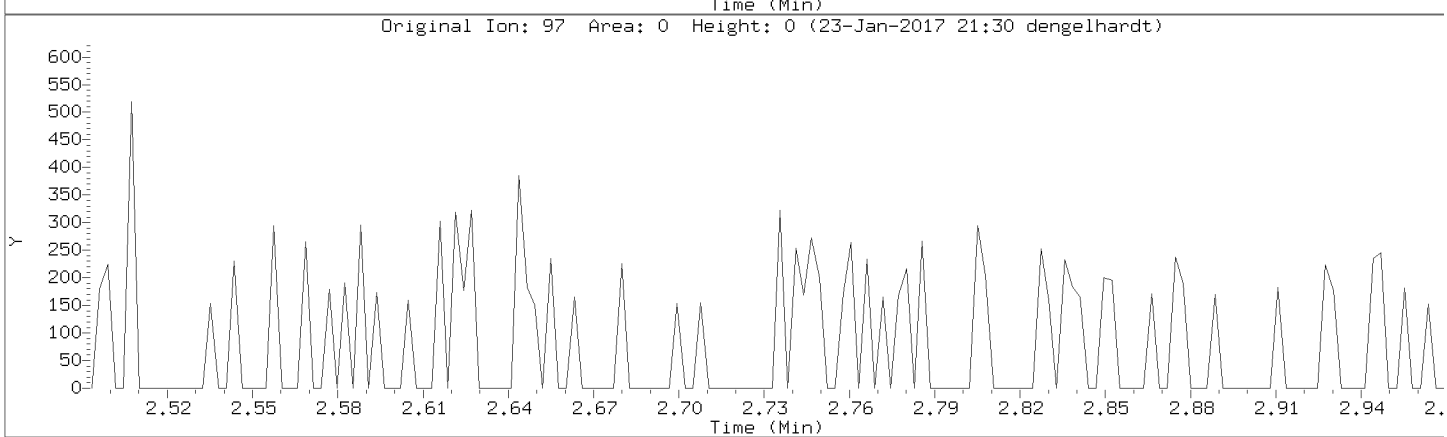
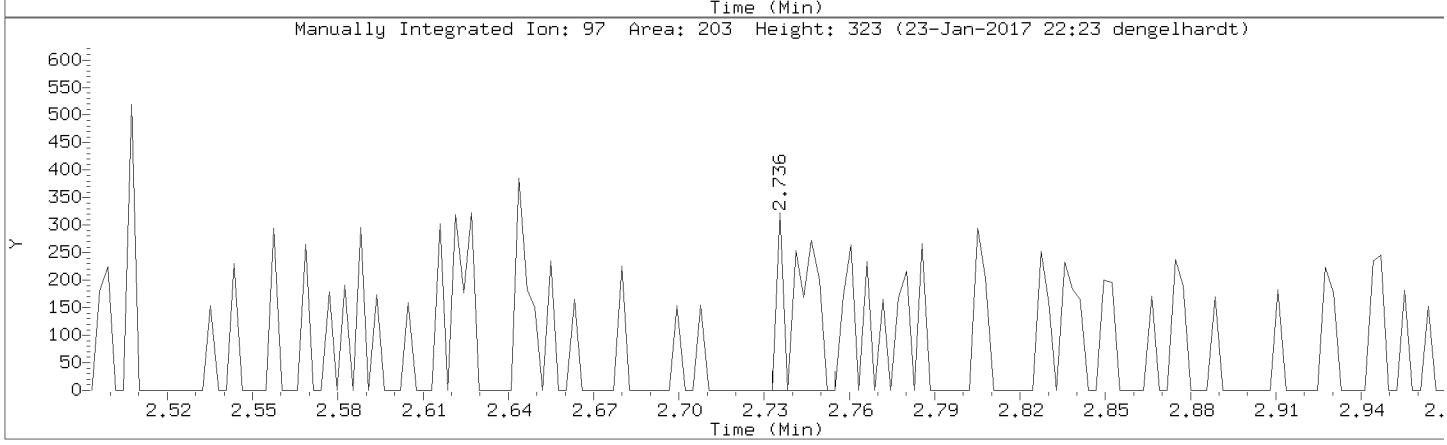
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7



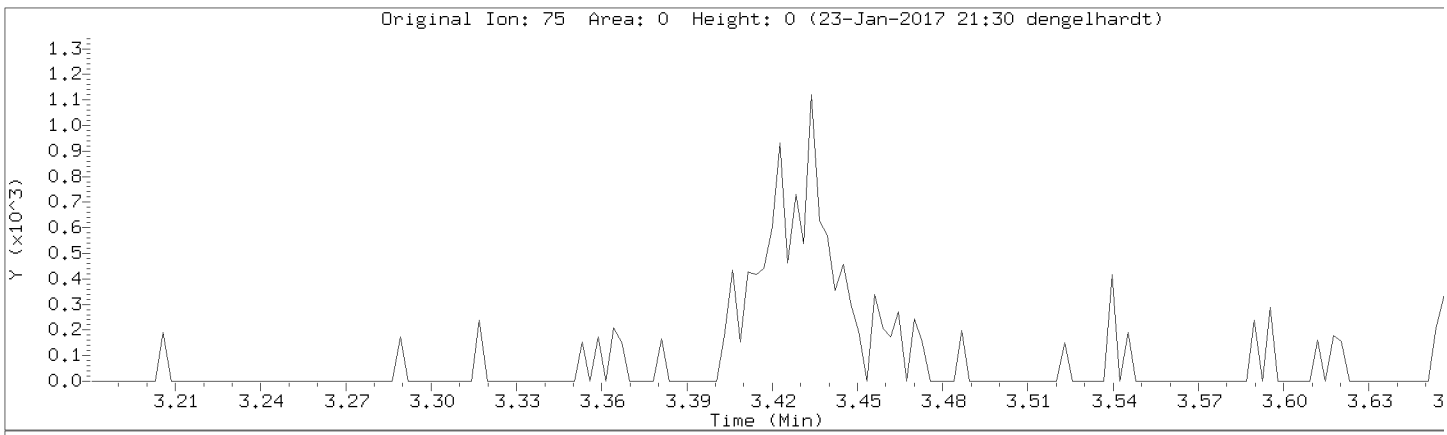


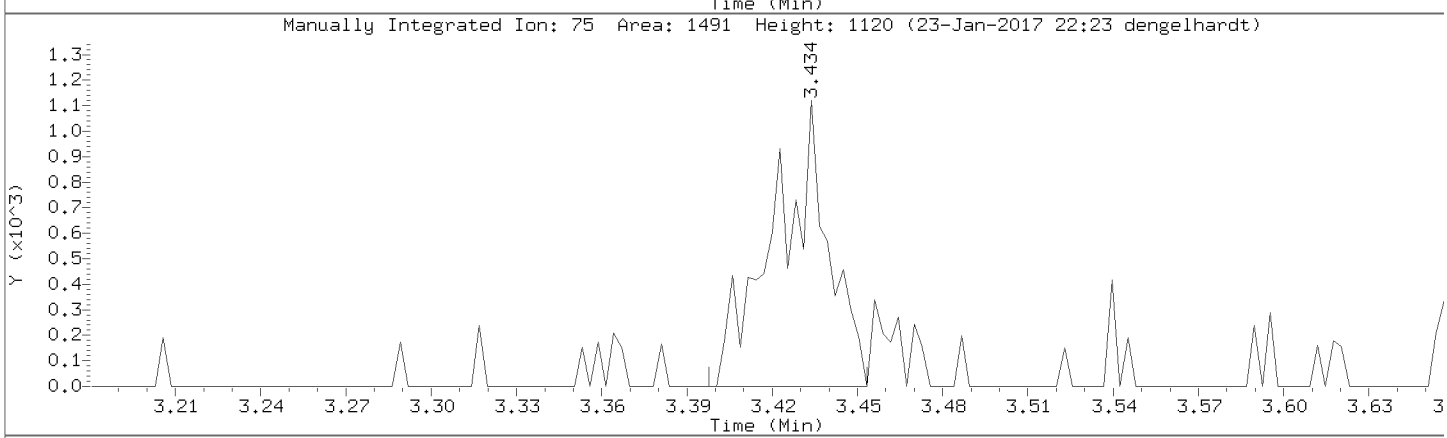


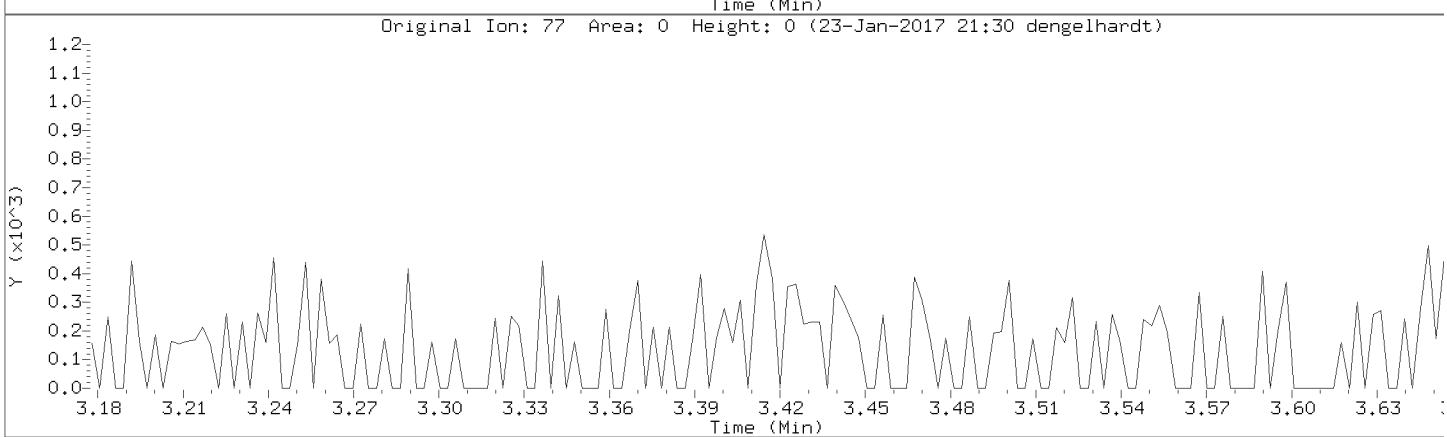


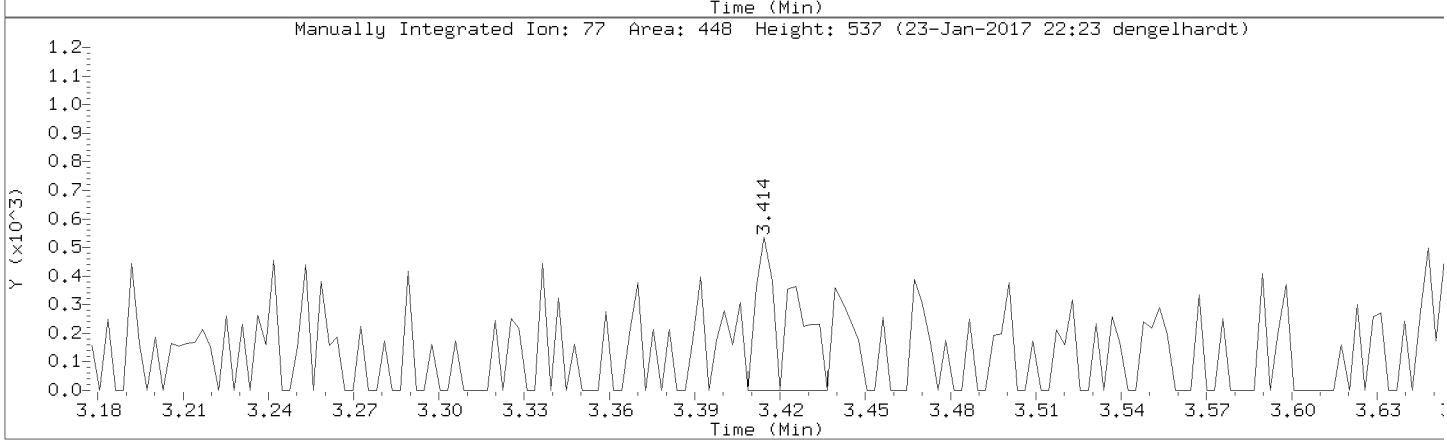
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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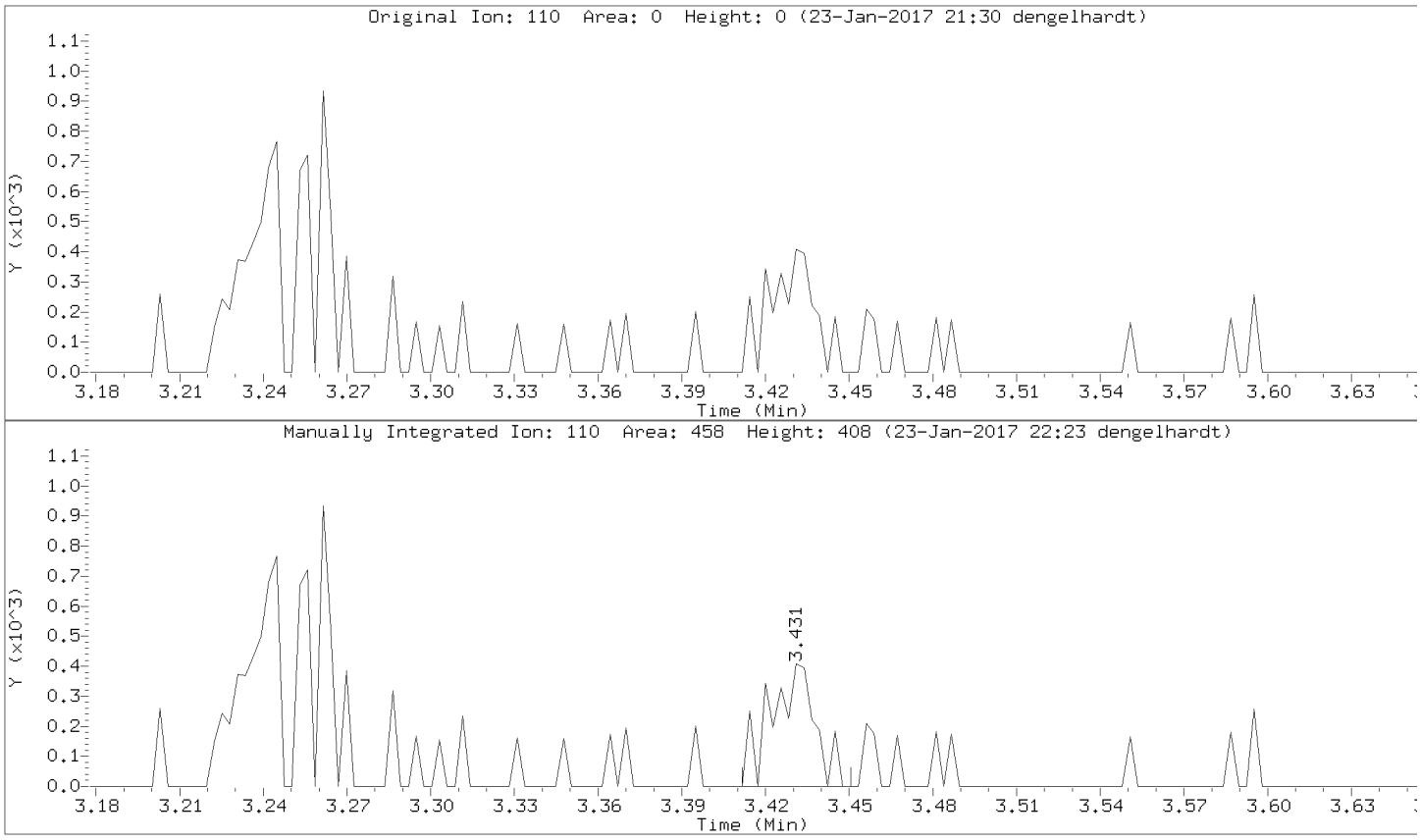
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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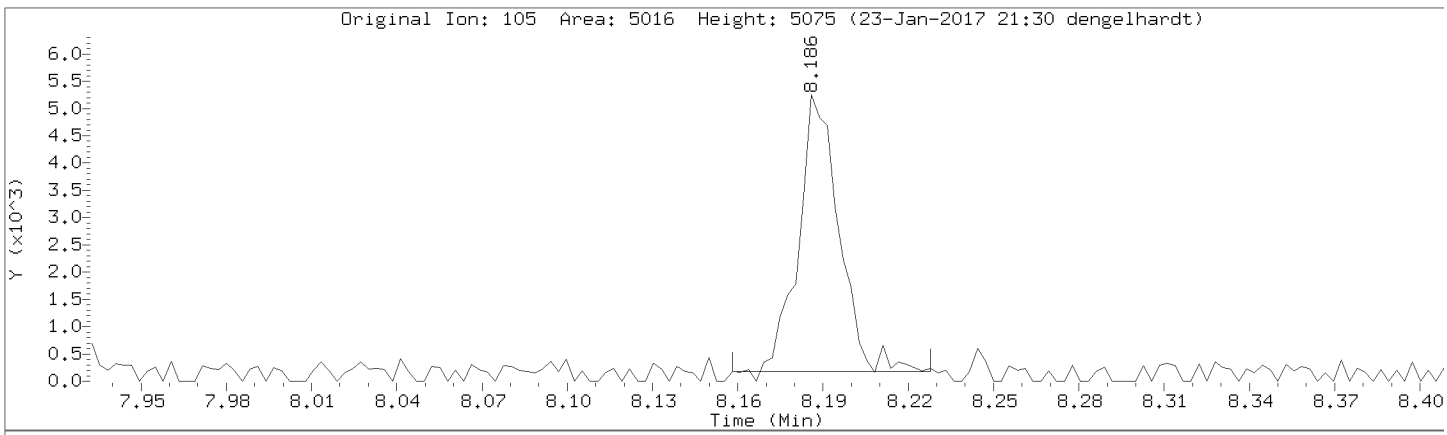
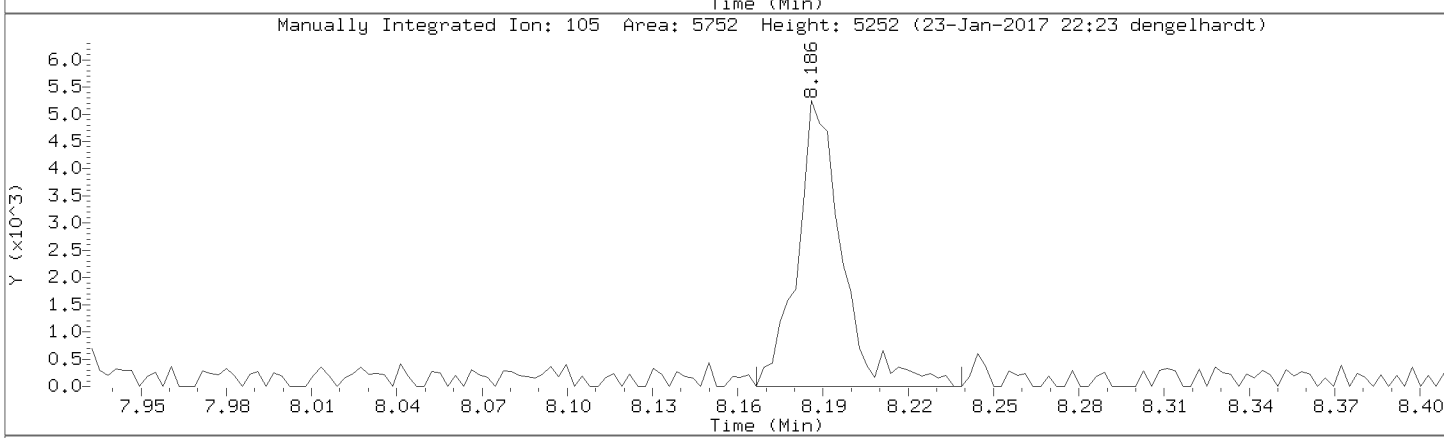
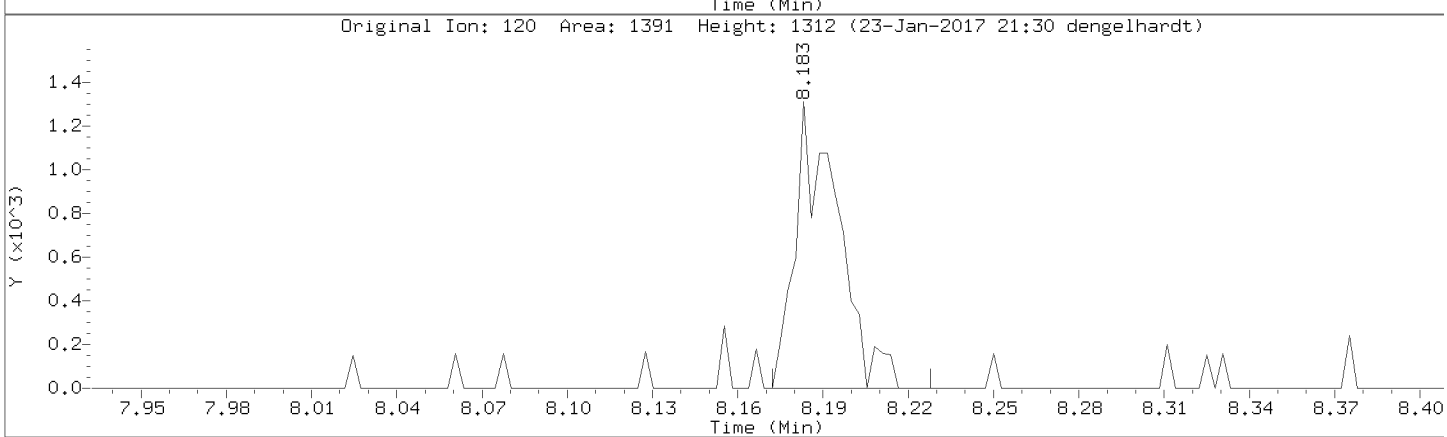
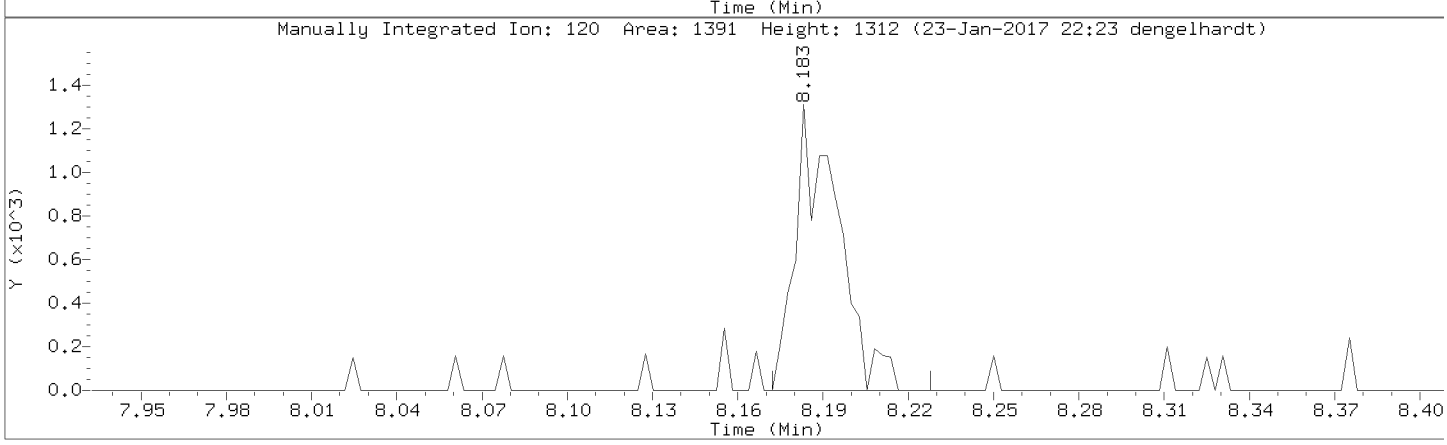
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Isopropylbenzene Review Code: LT
CAS Number: 98-82-8









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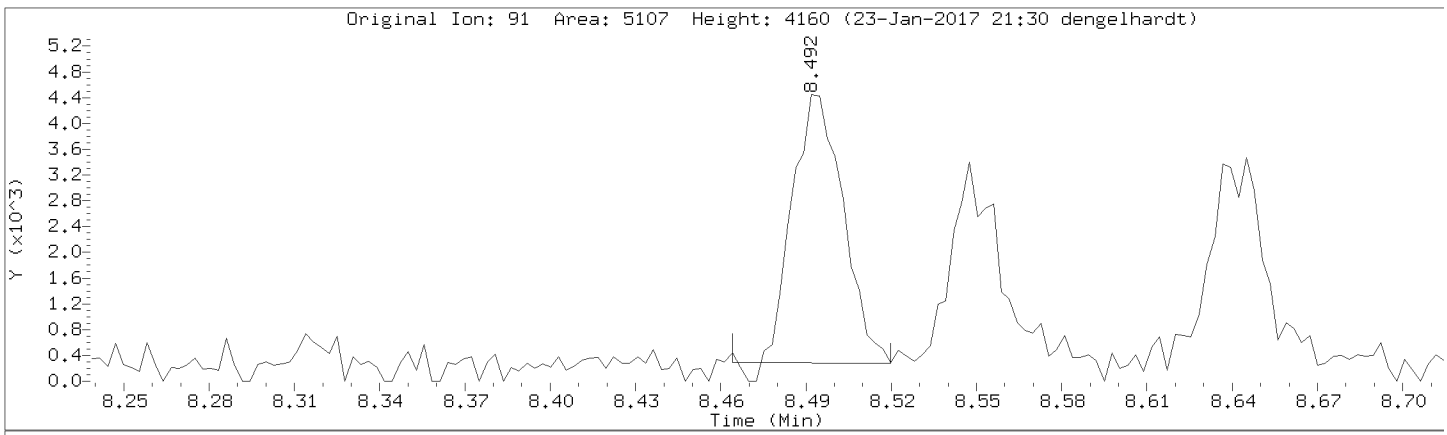
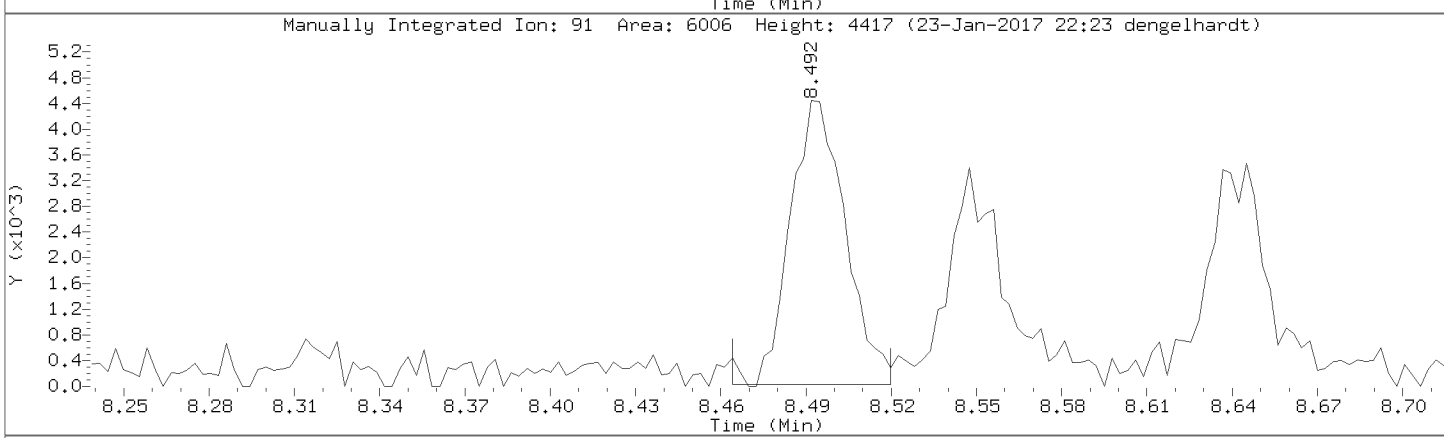
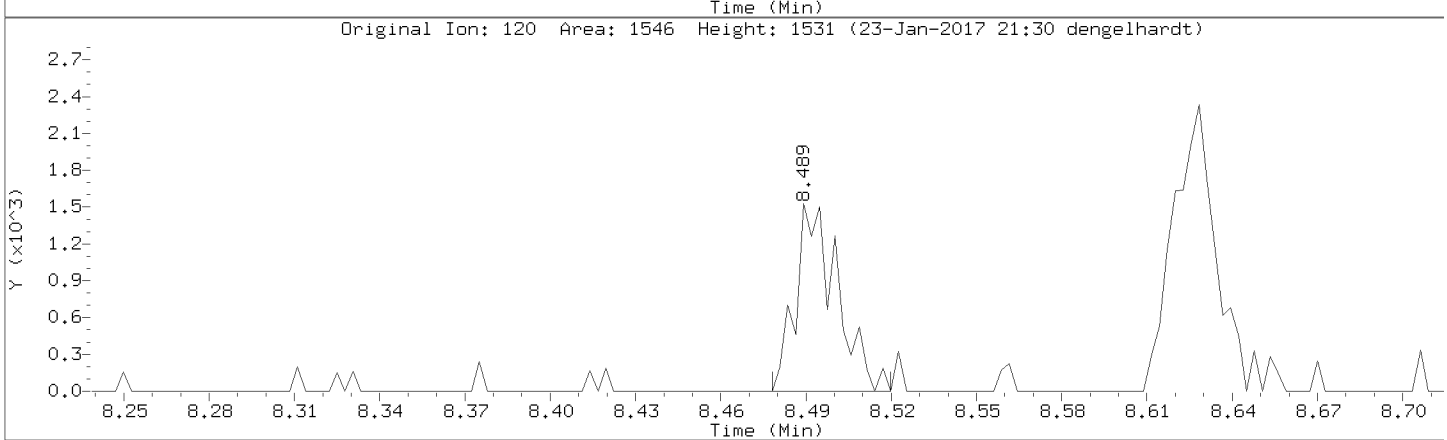
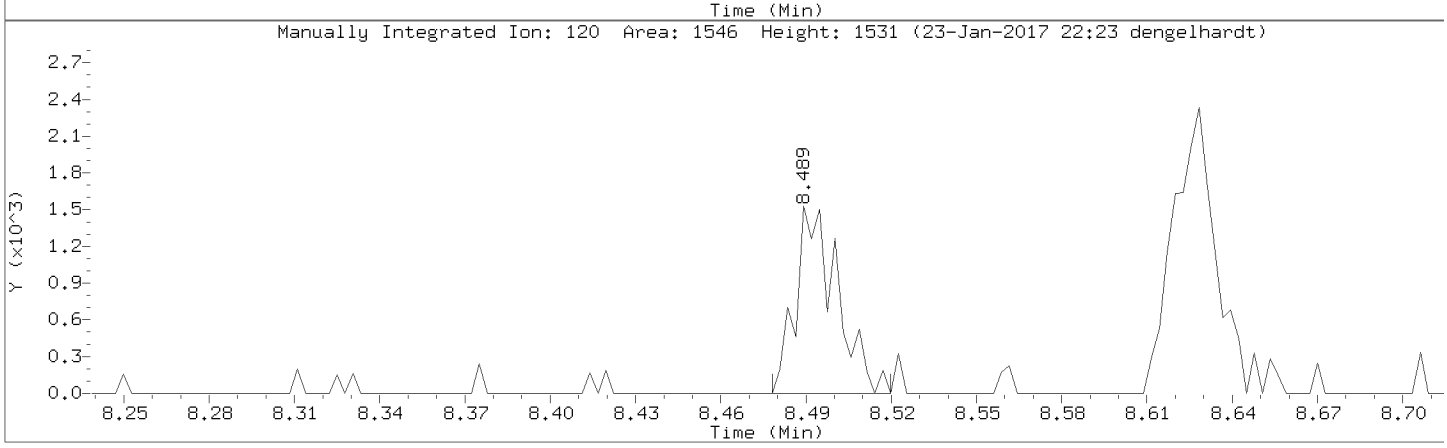
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-Propylbenzene Review Code: NI
CAS Number: 103-65-1









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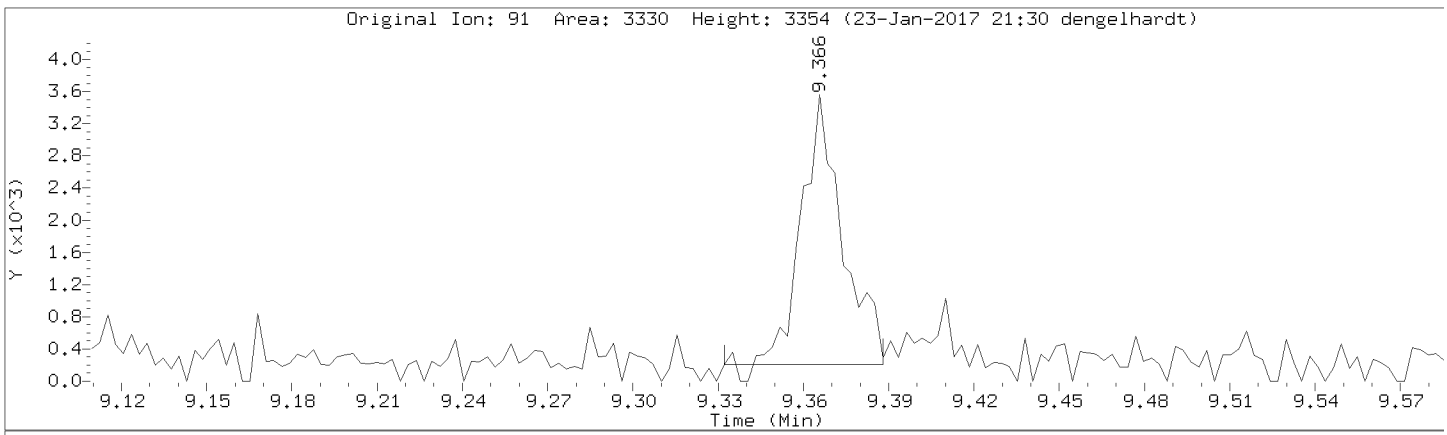
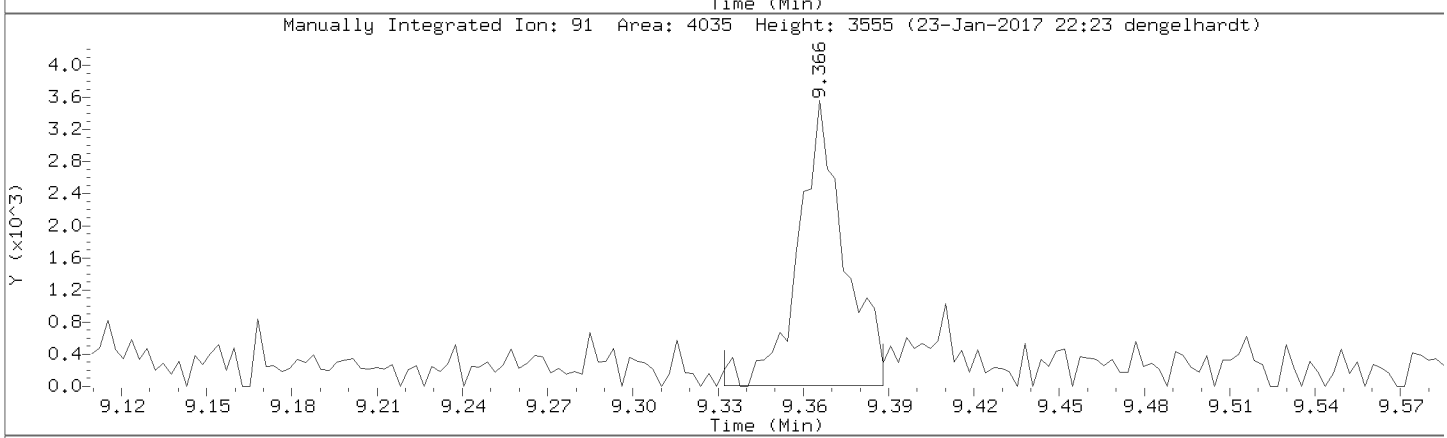
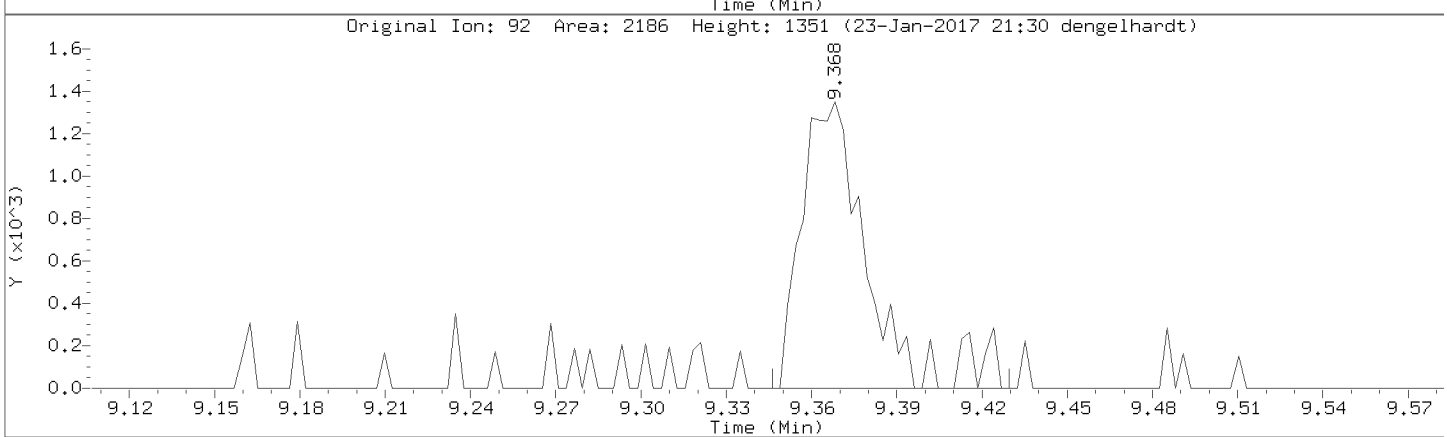
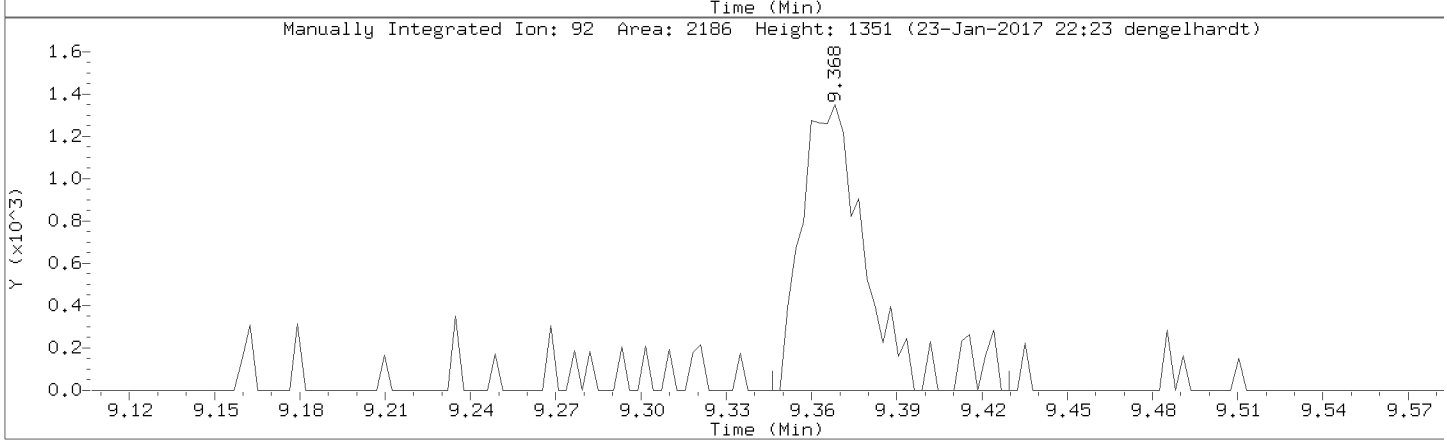
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-Butylbenzene Review Code: LT
CAS Number: 104-51-8









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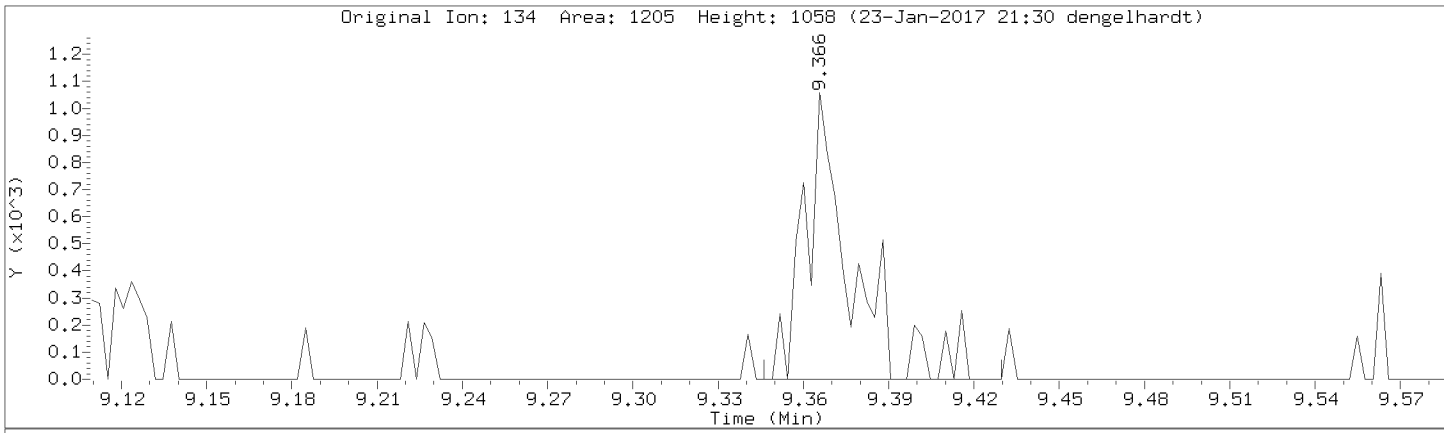
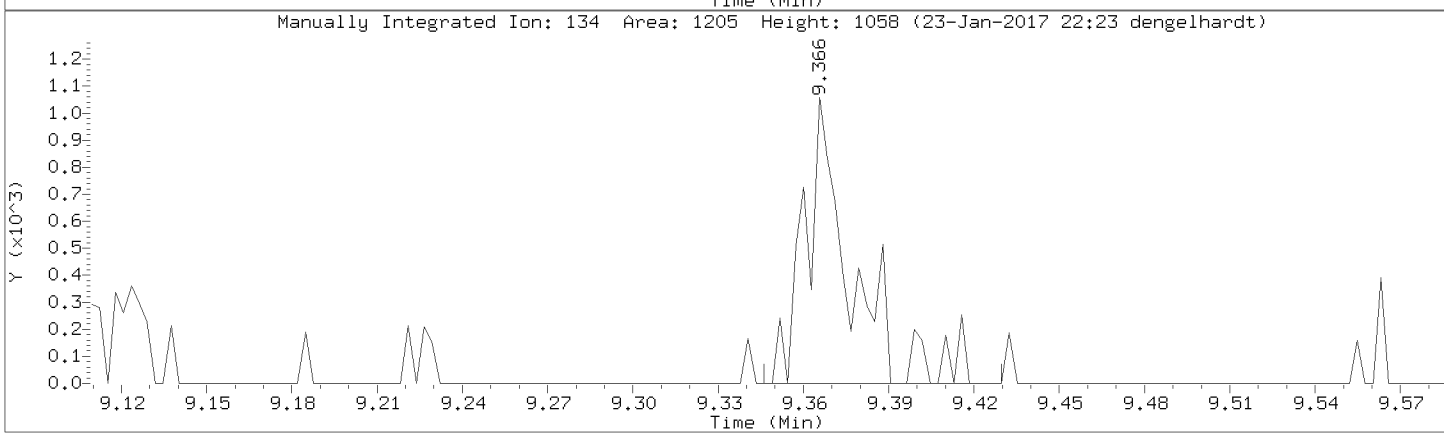
Lab Sample ID: 8260-CAL1,140426:0





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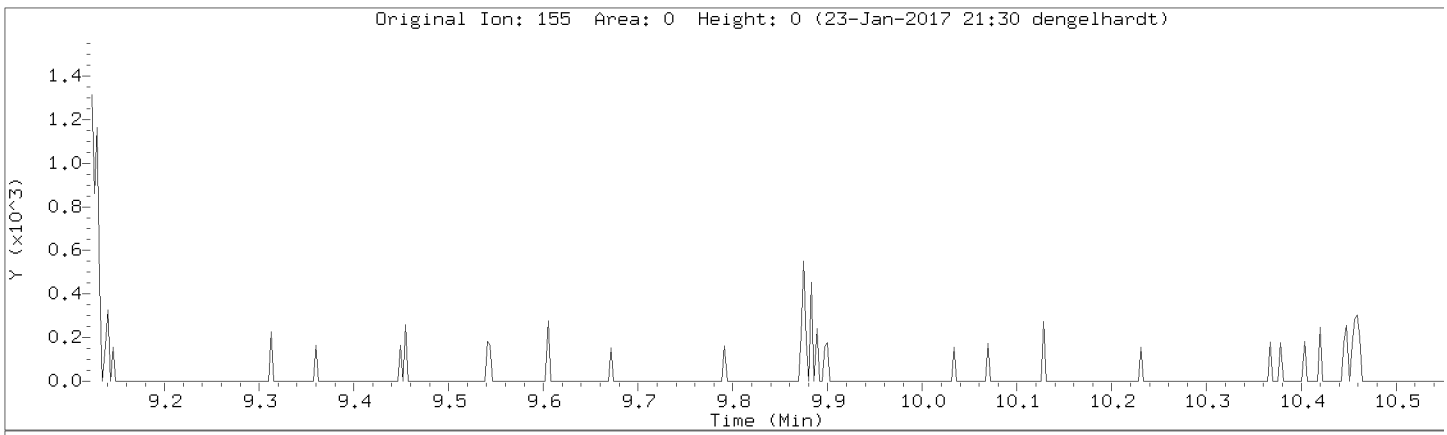
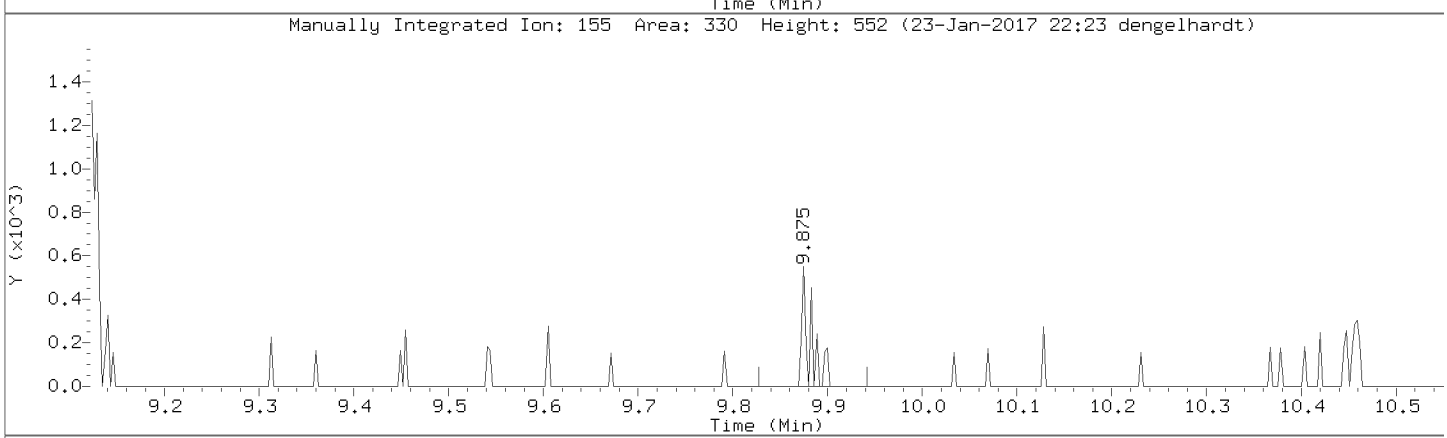
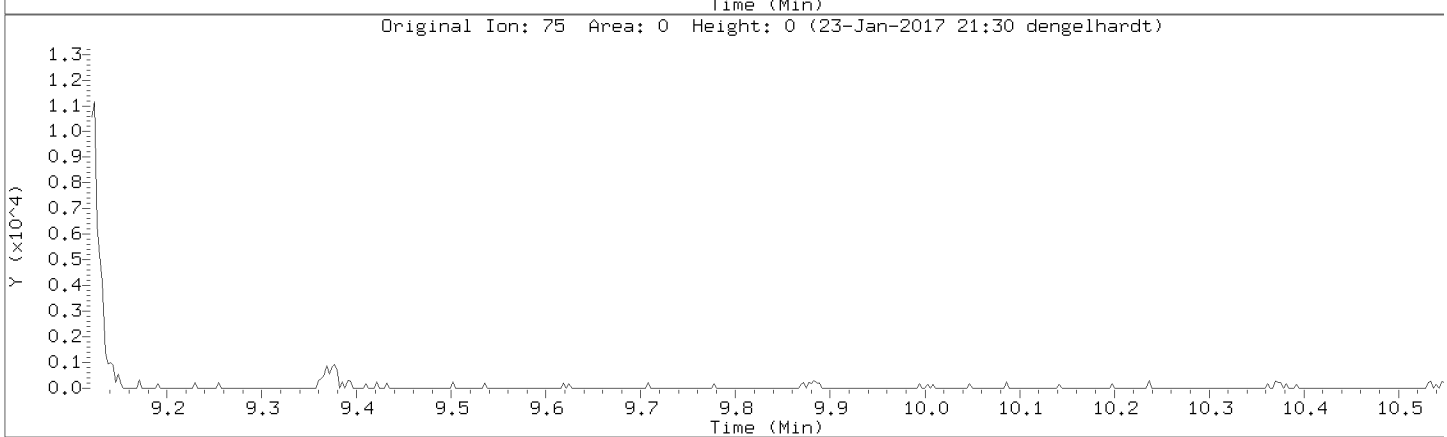
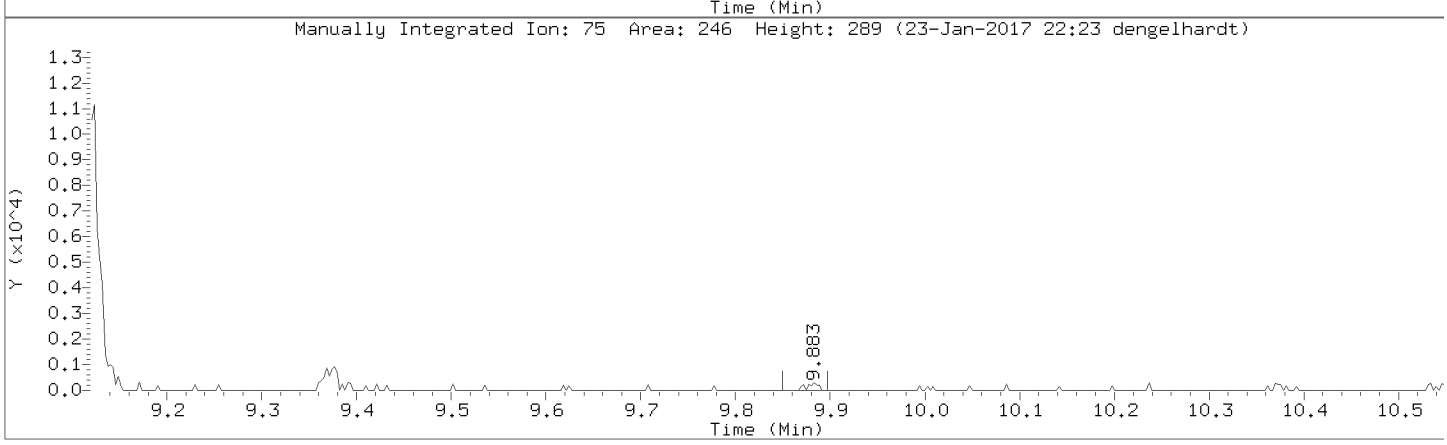
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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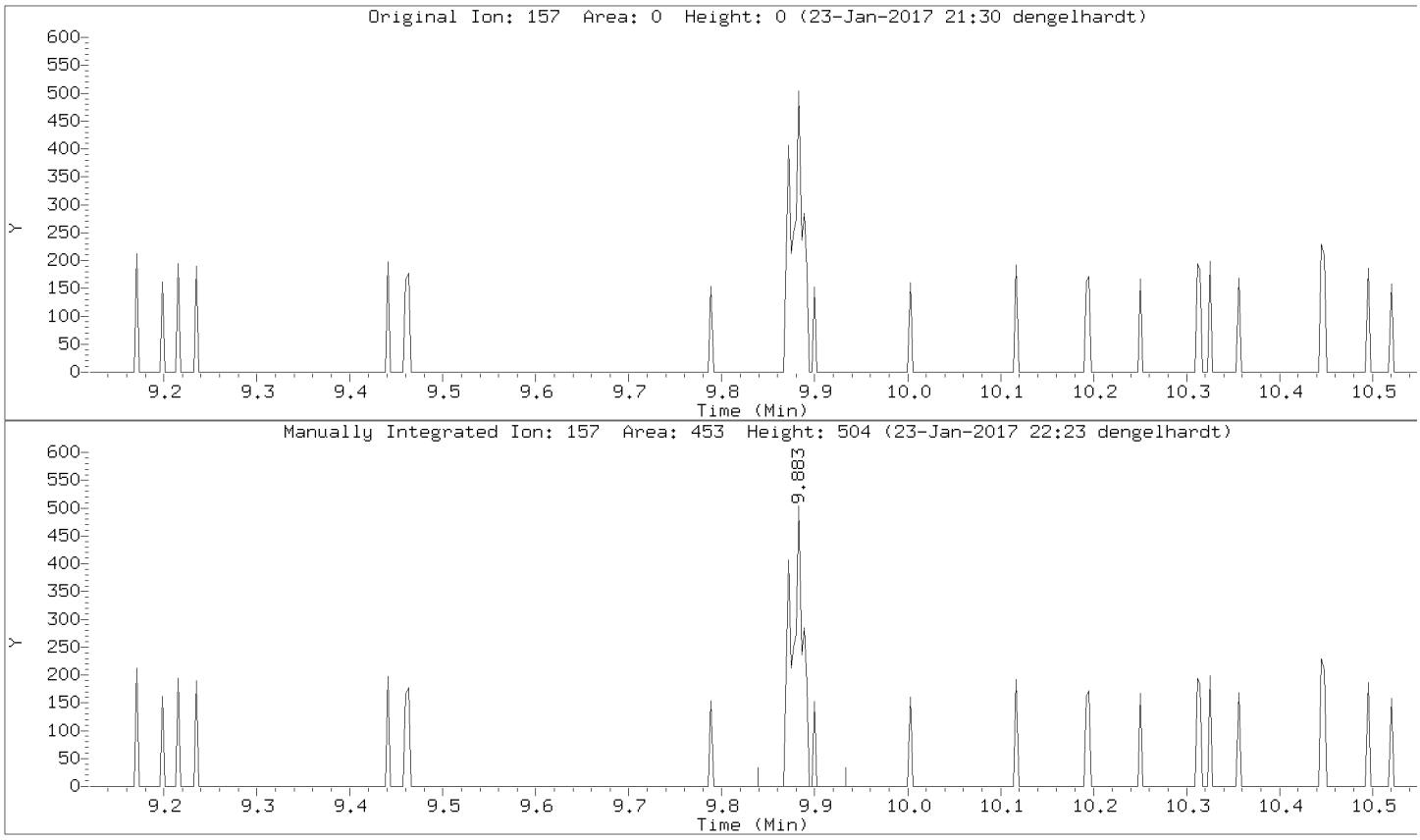
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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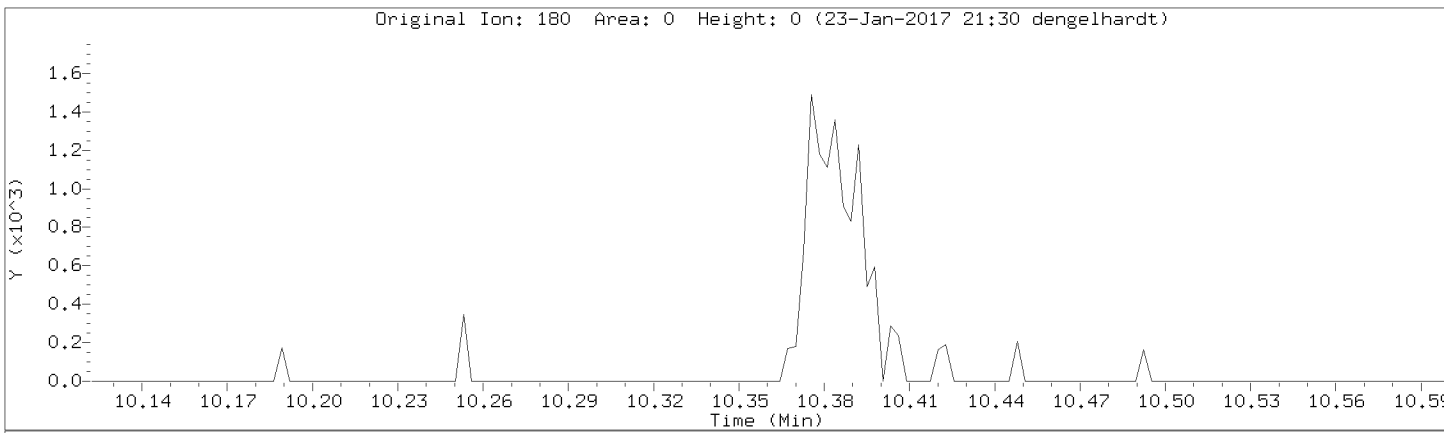
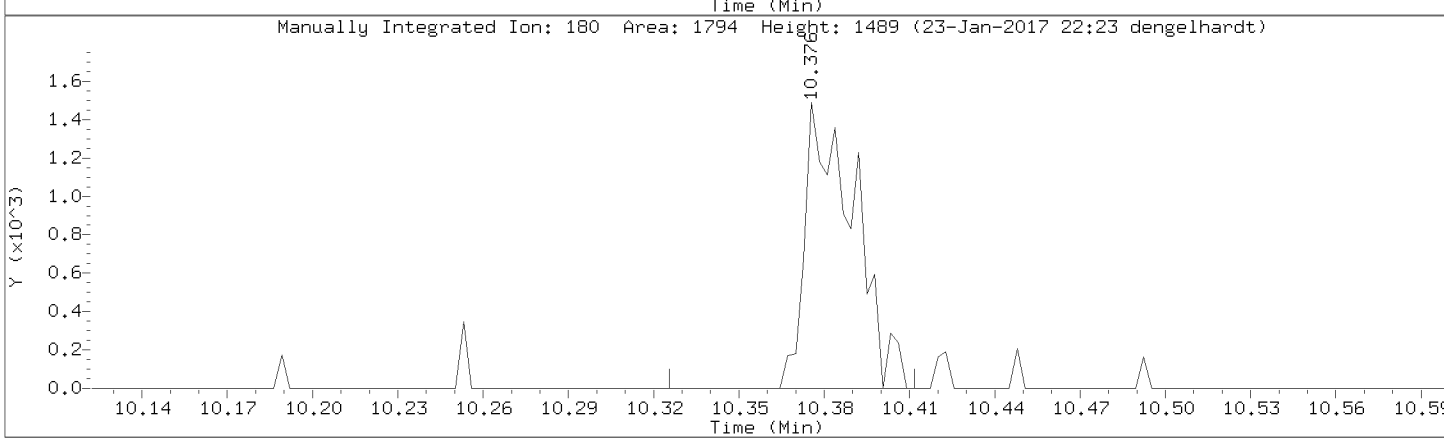
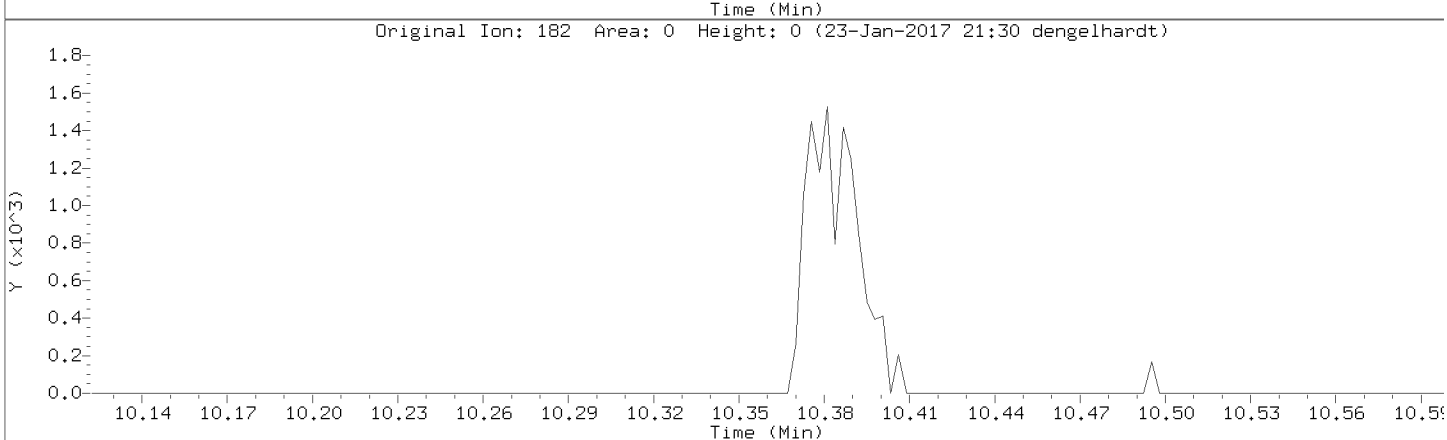
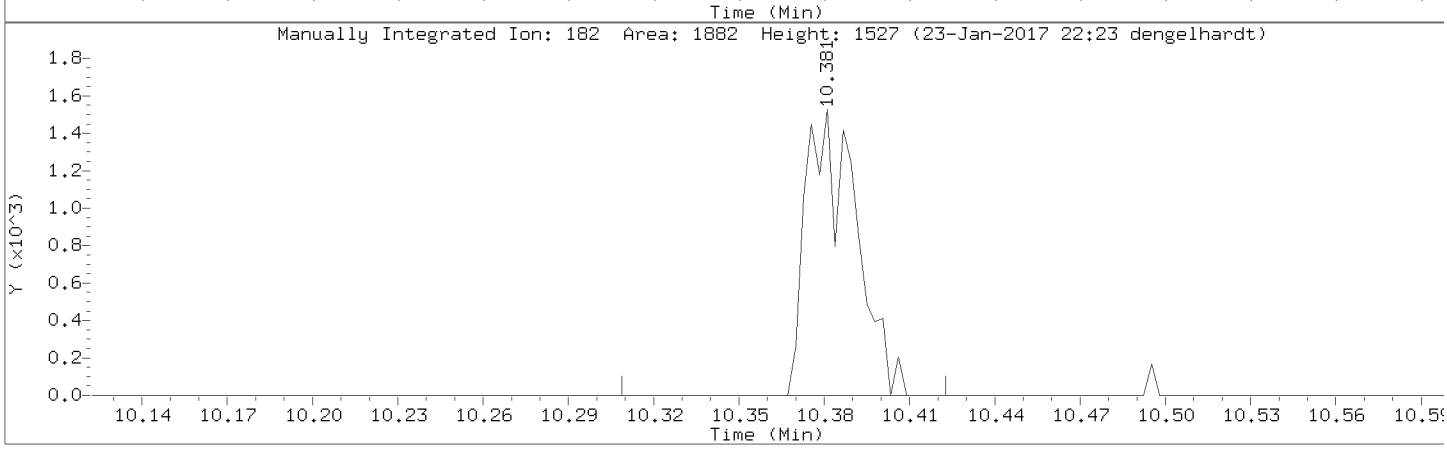
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1









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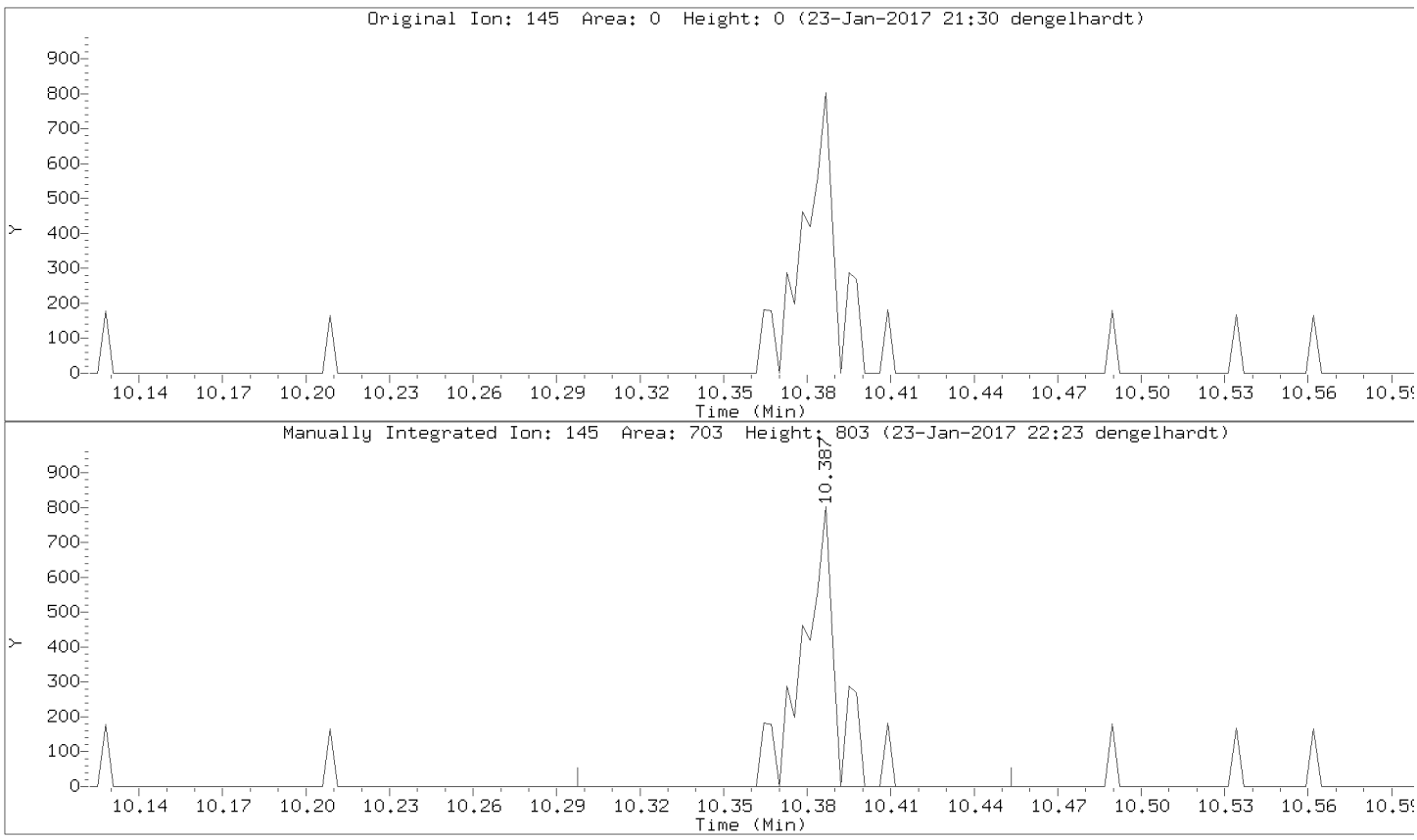

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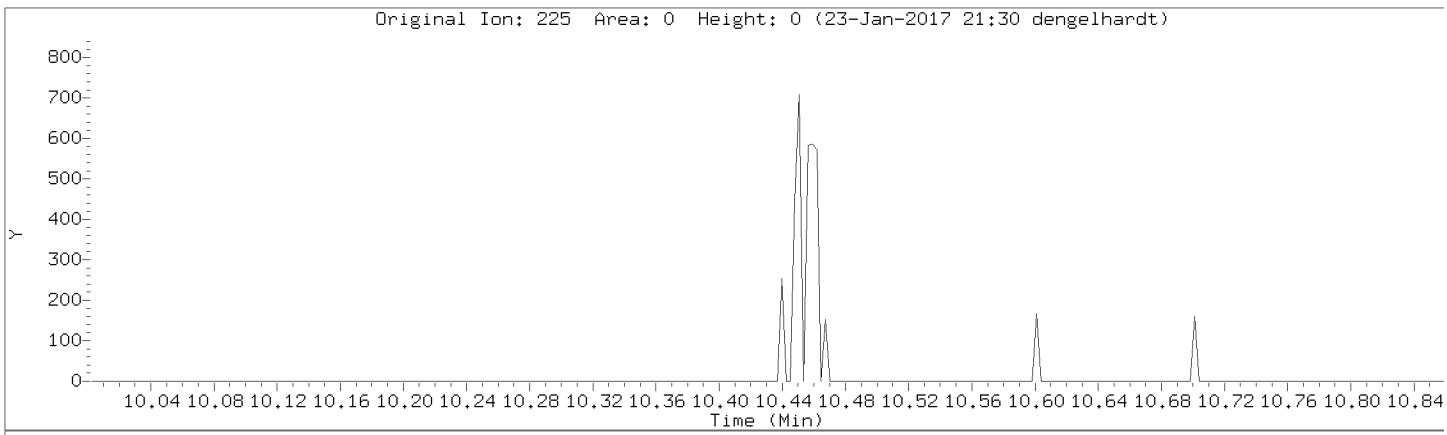
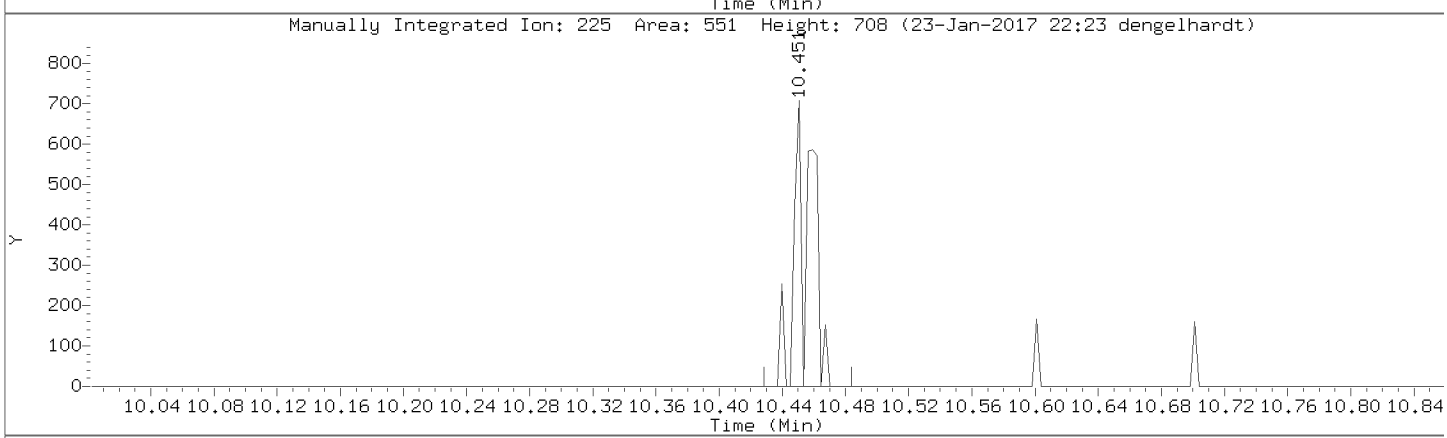
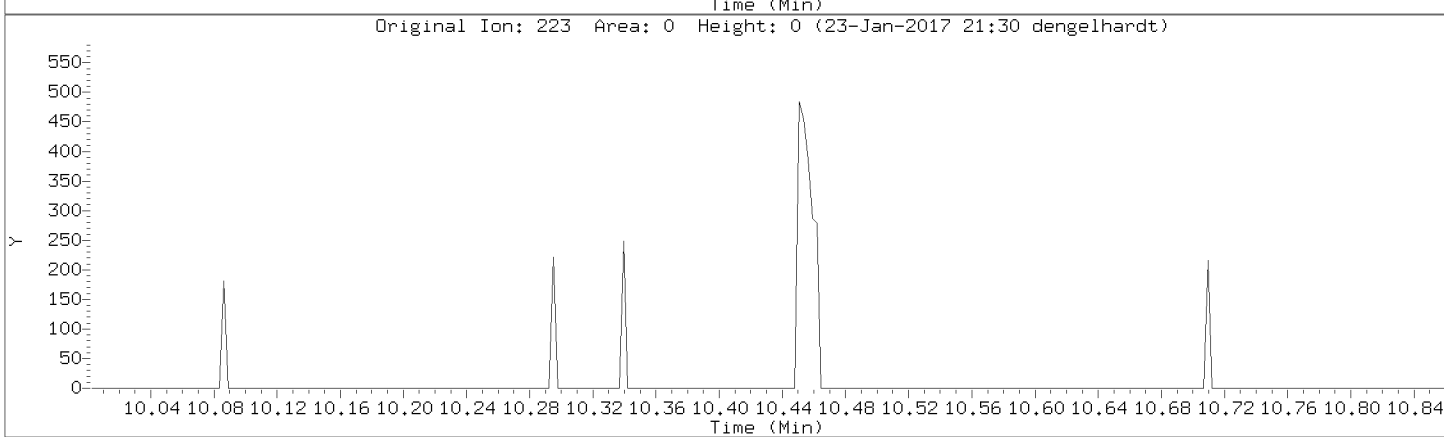
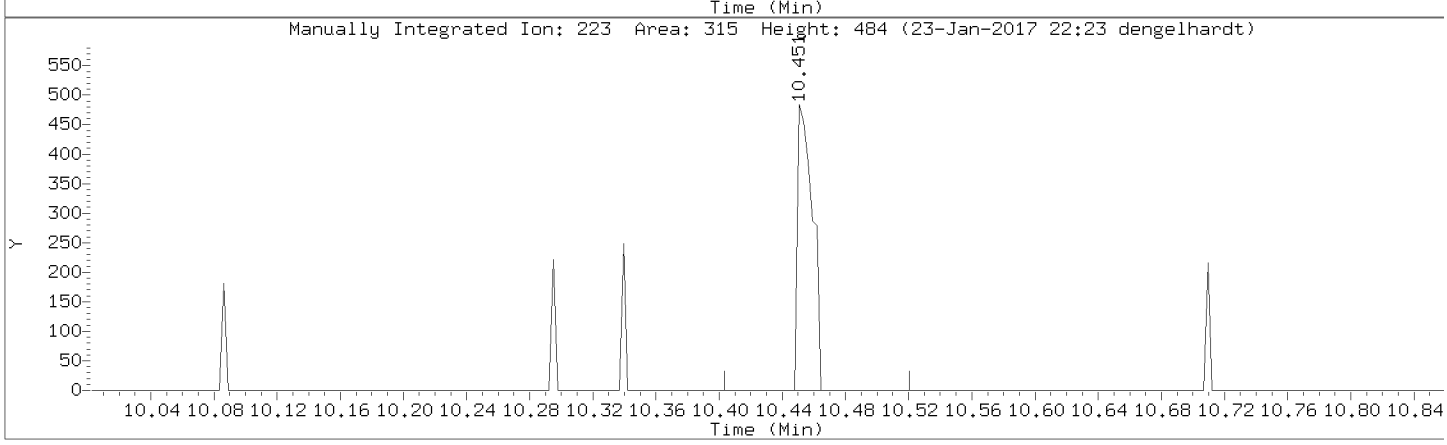
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3









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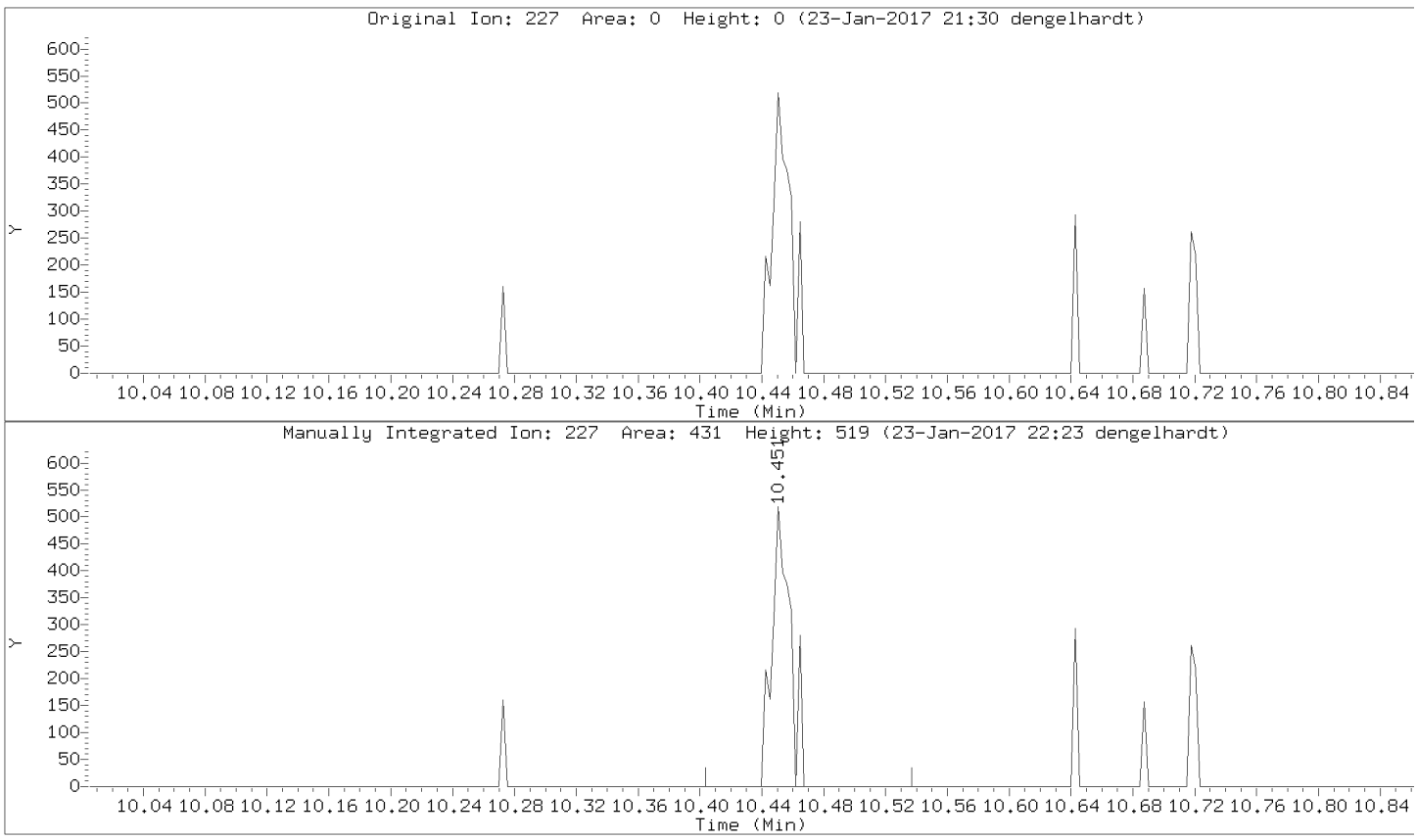
Lab Sample ID: 8260-CAL1,140426:0



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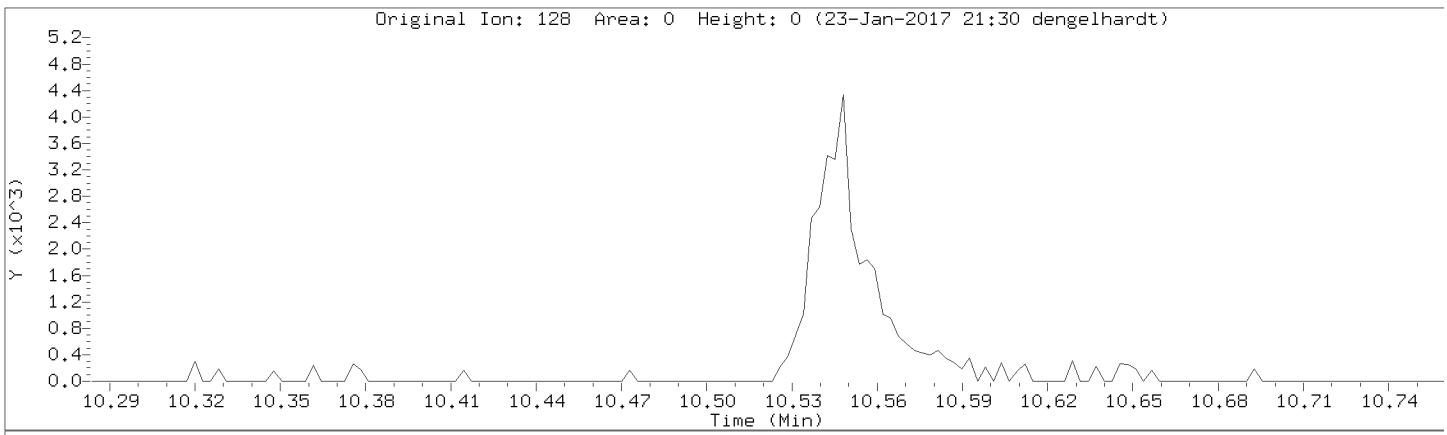
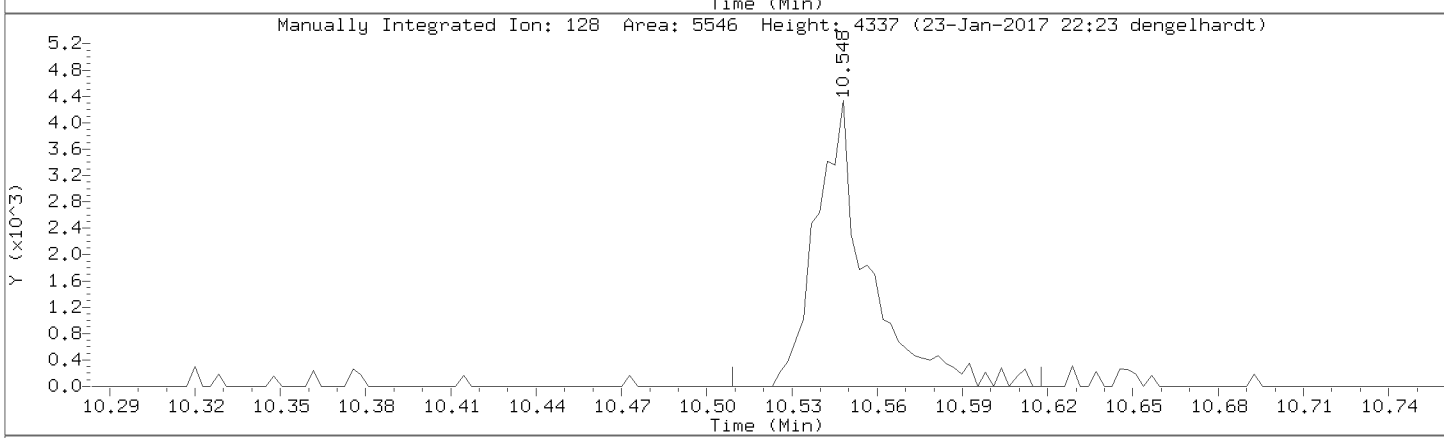
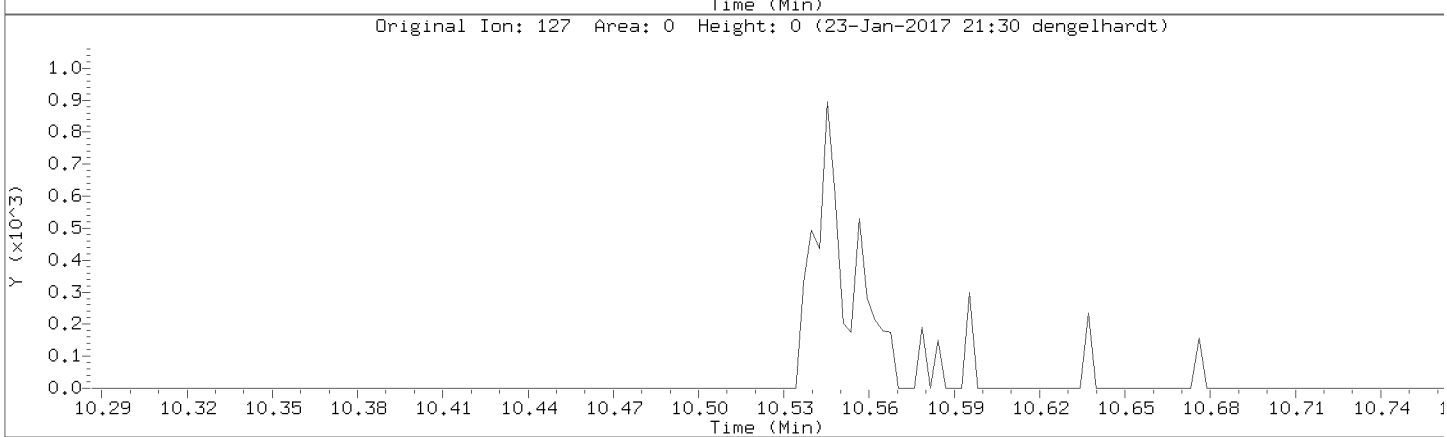
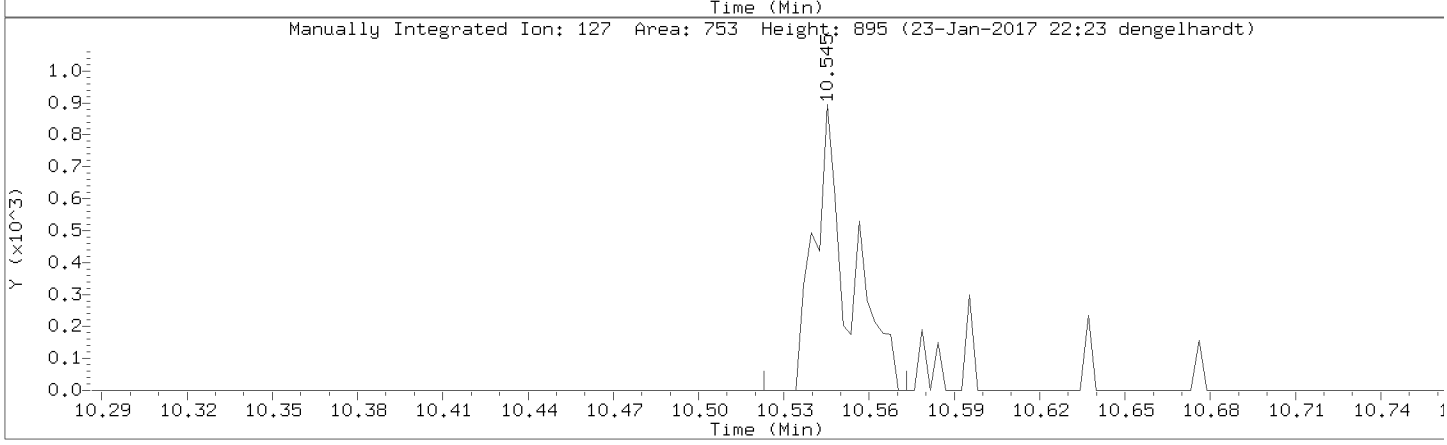
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Naphthalene Review Code: NI
CAS Number: 91-20-3









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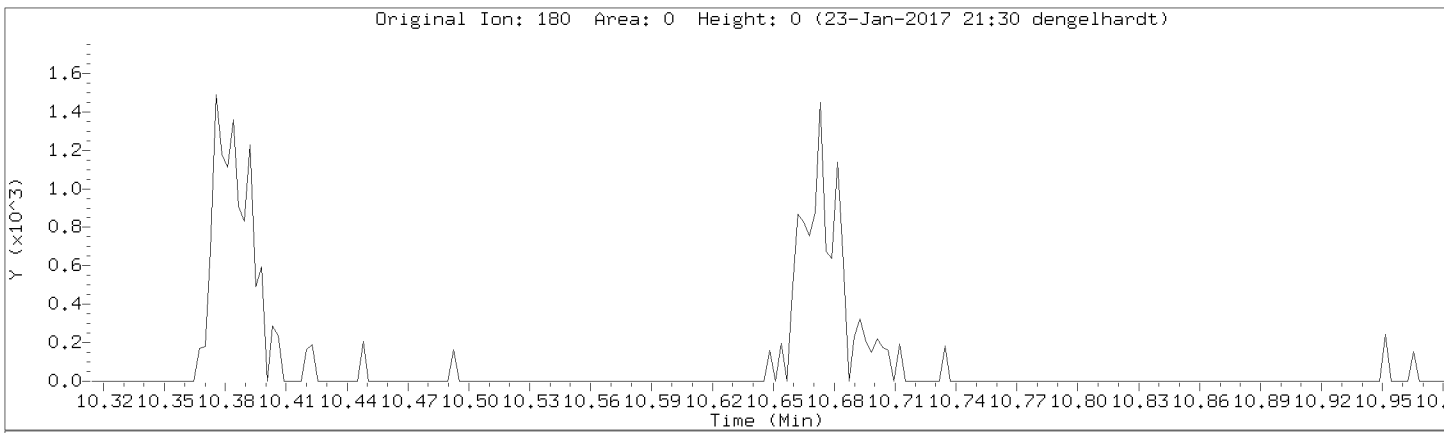
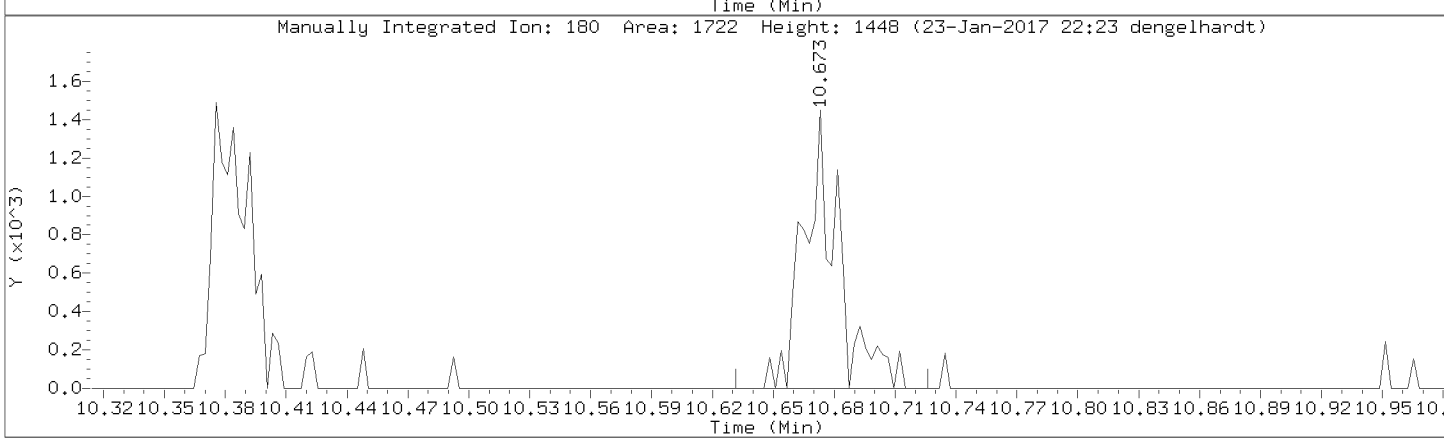
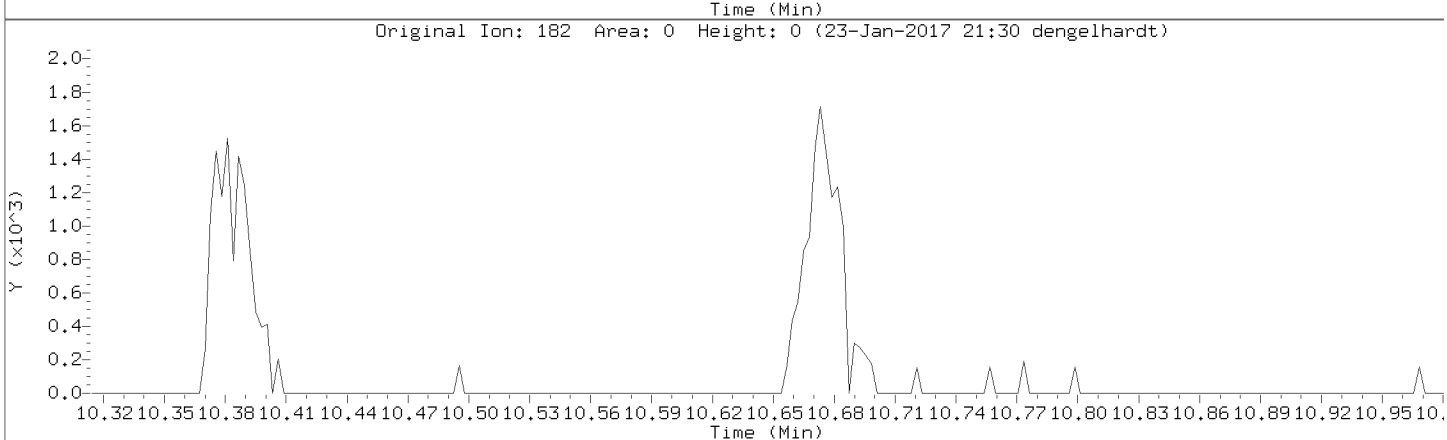
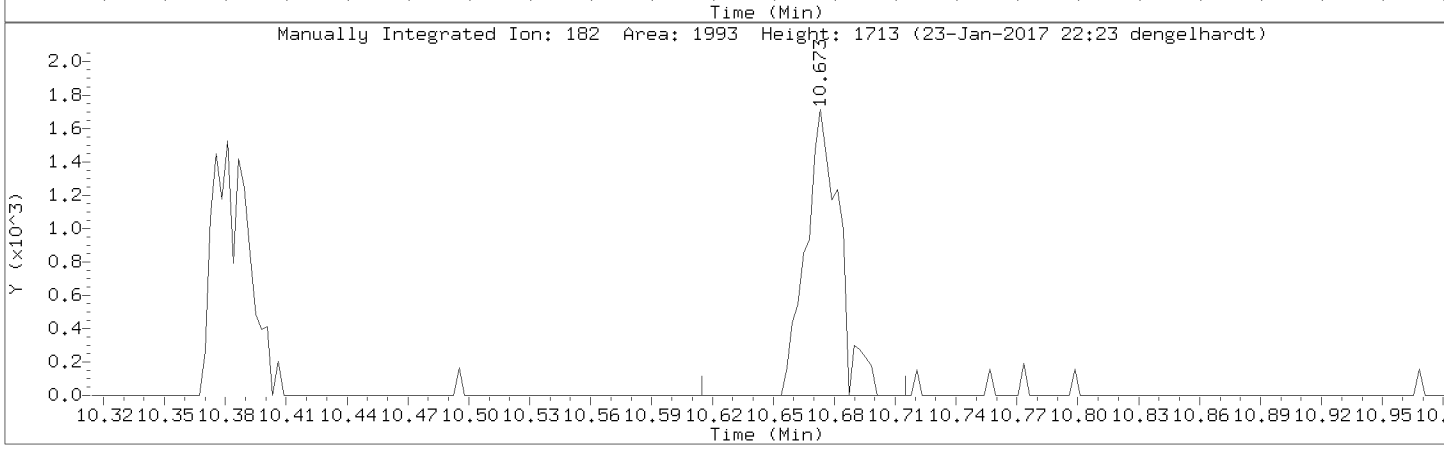
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2,3-Trichlorobenzene Review Code: NI
CAS Number: 87-61-6









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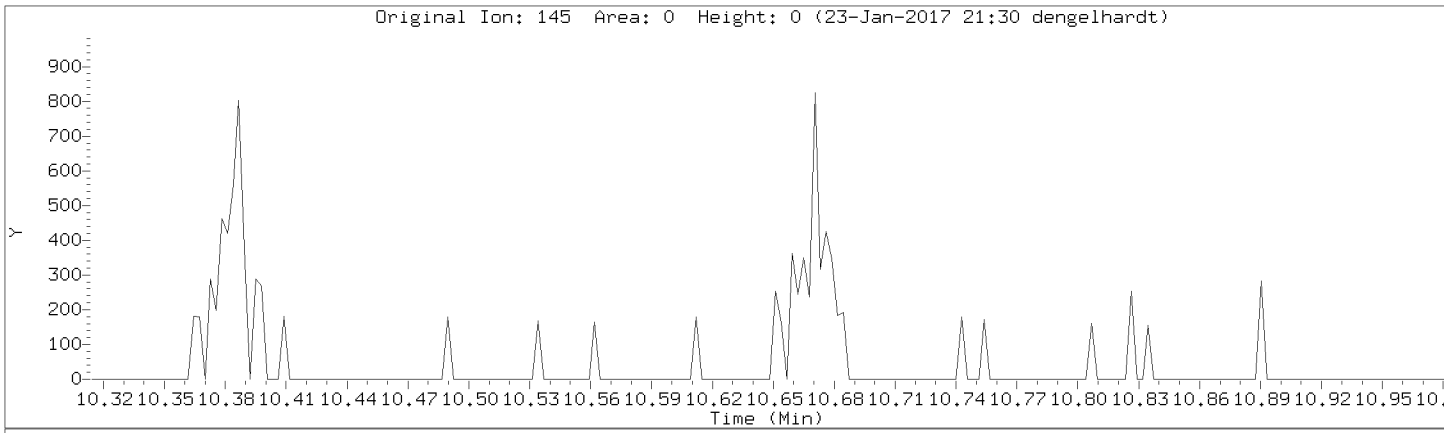
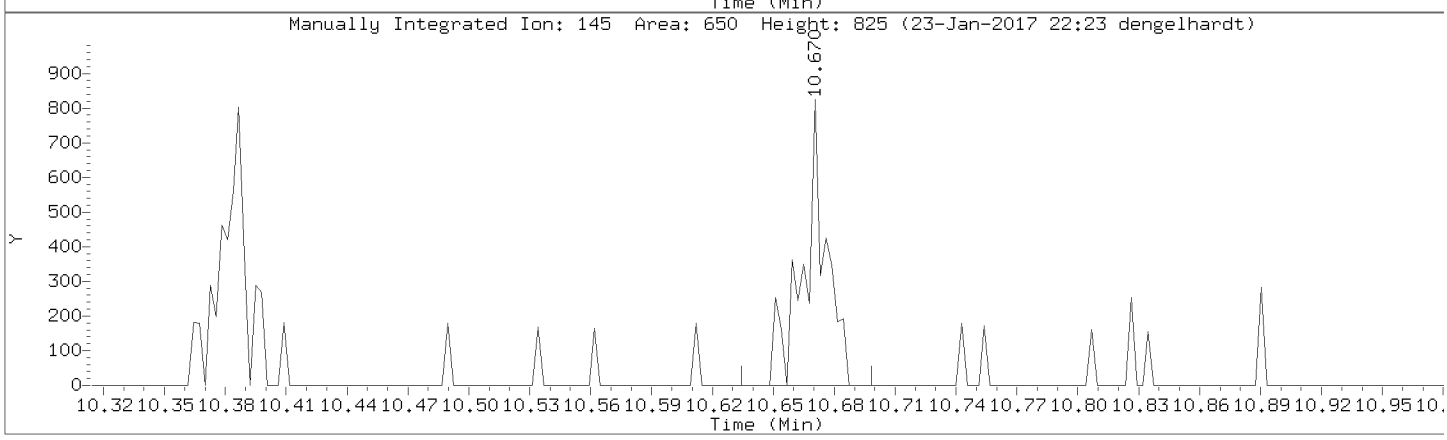
Lab Sample ID: 8260-CAL1,140426:0





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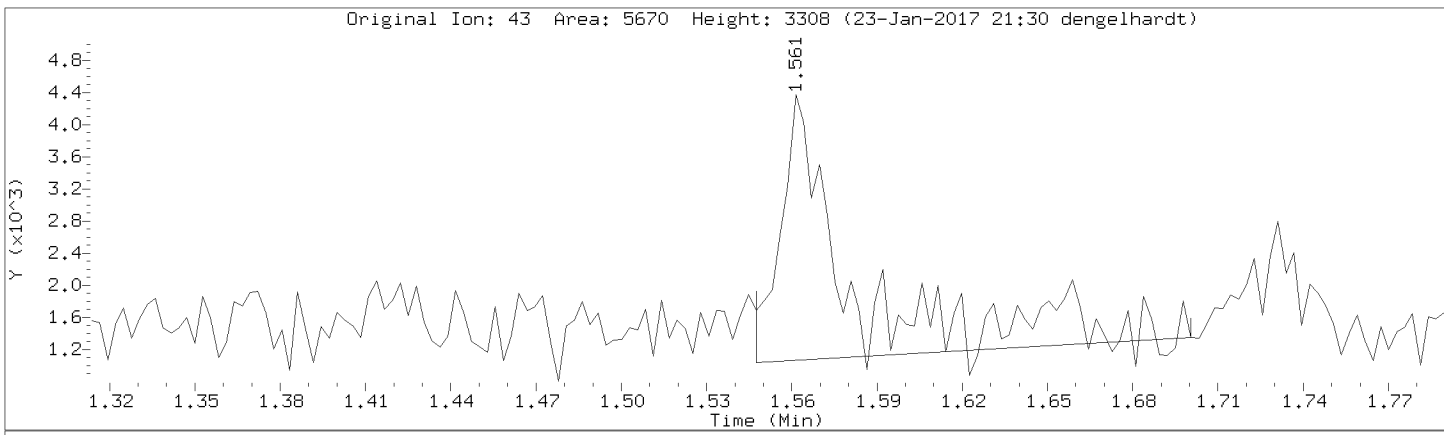
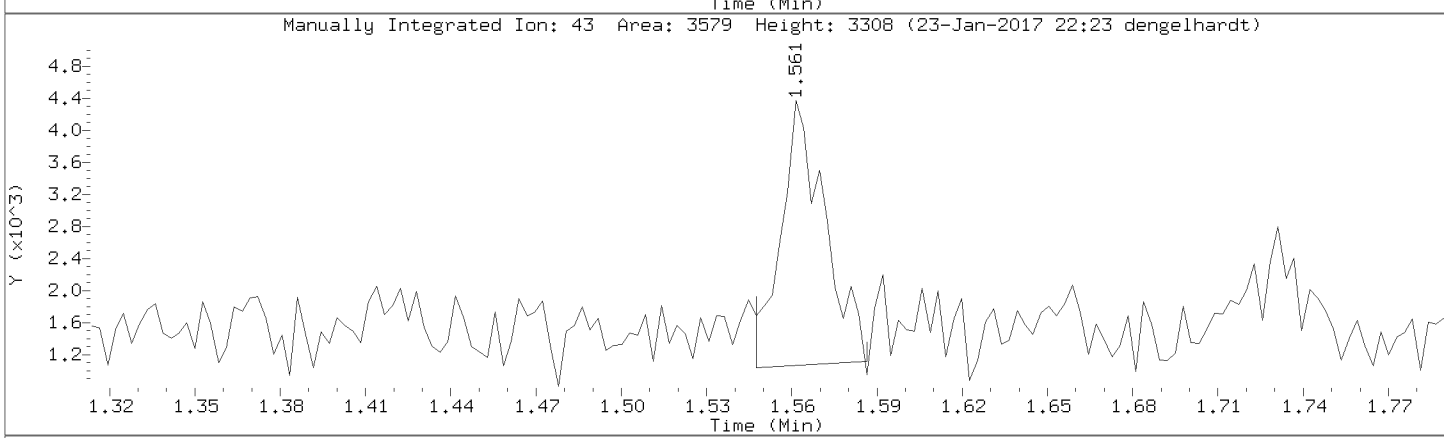
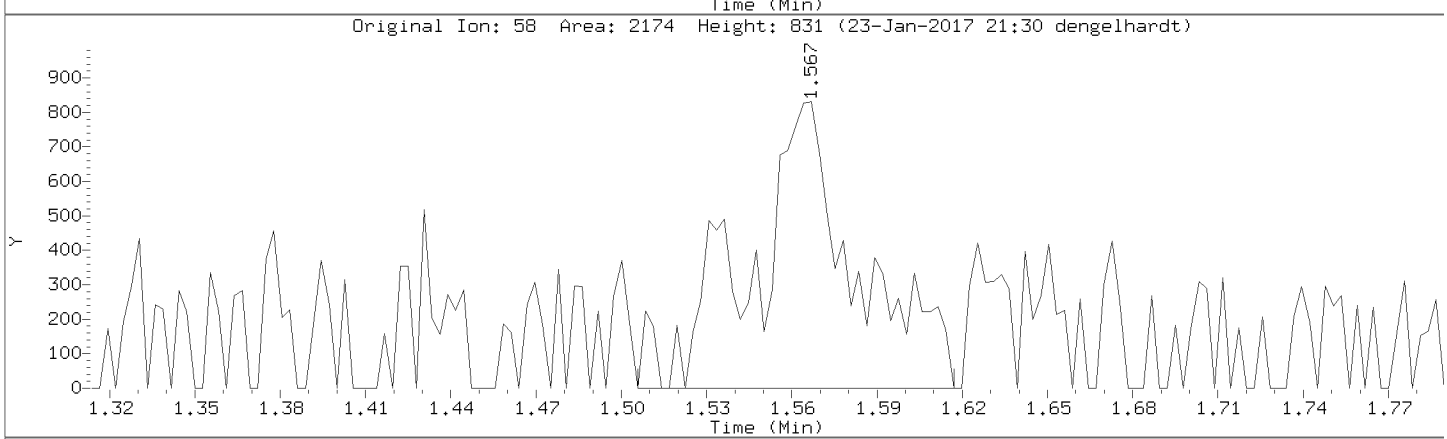
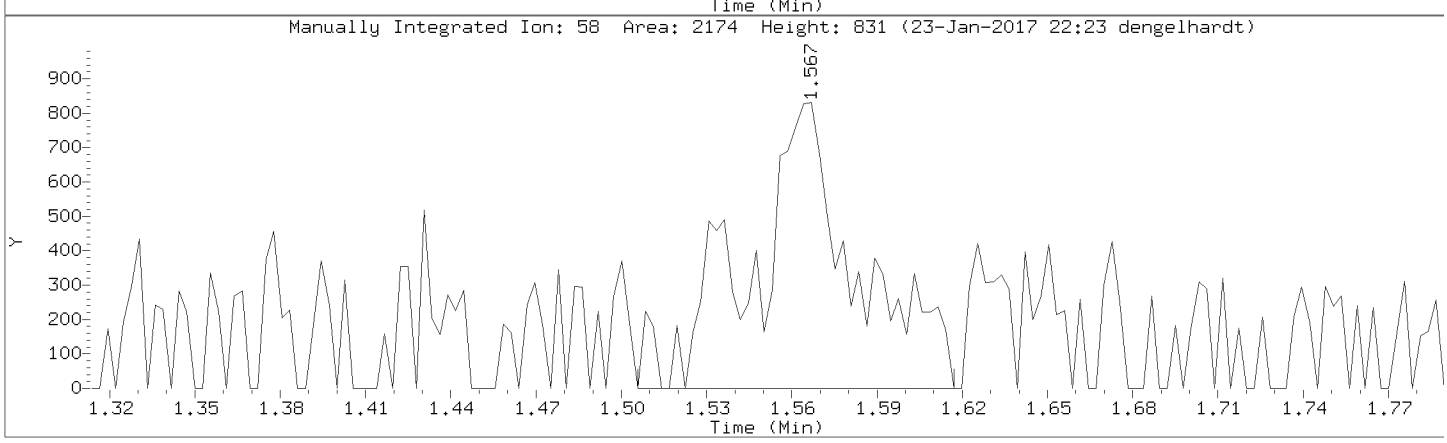
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acetone Review Code: GT
CAS Number: 67-64-1









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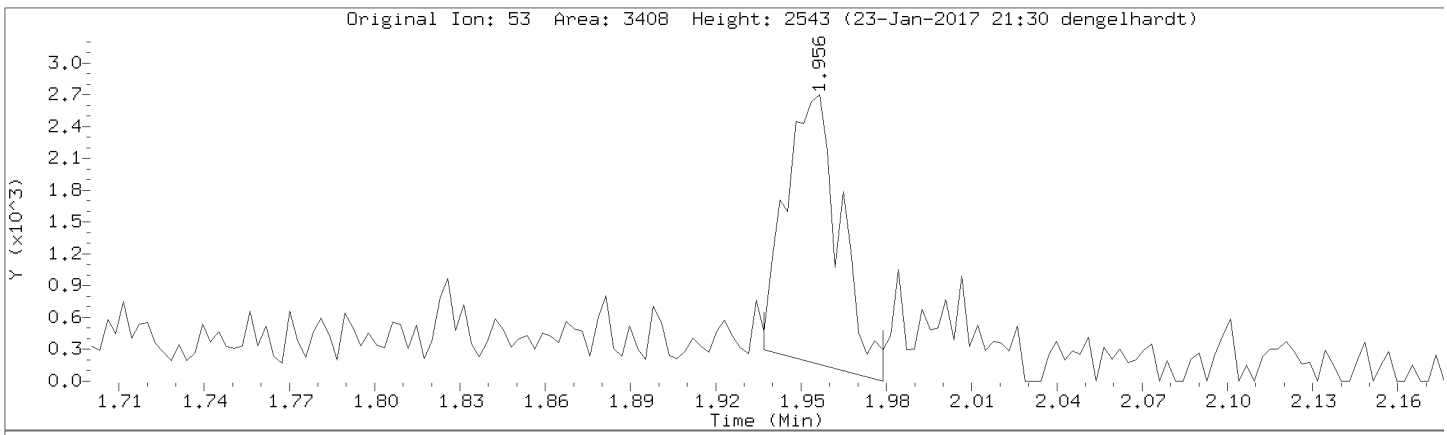
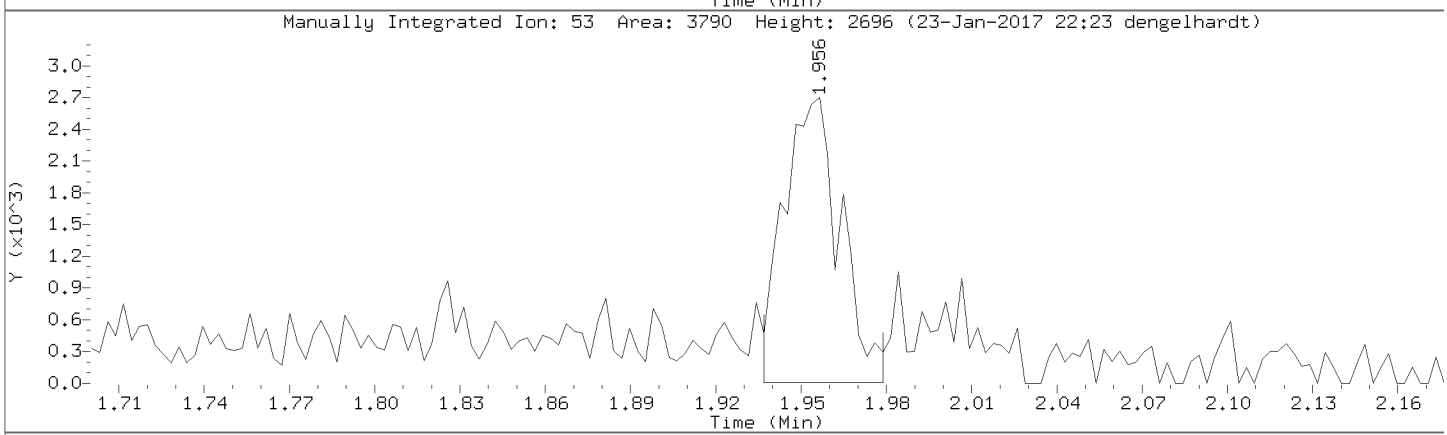
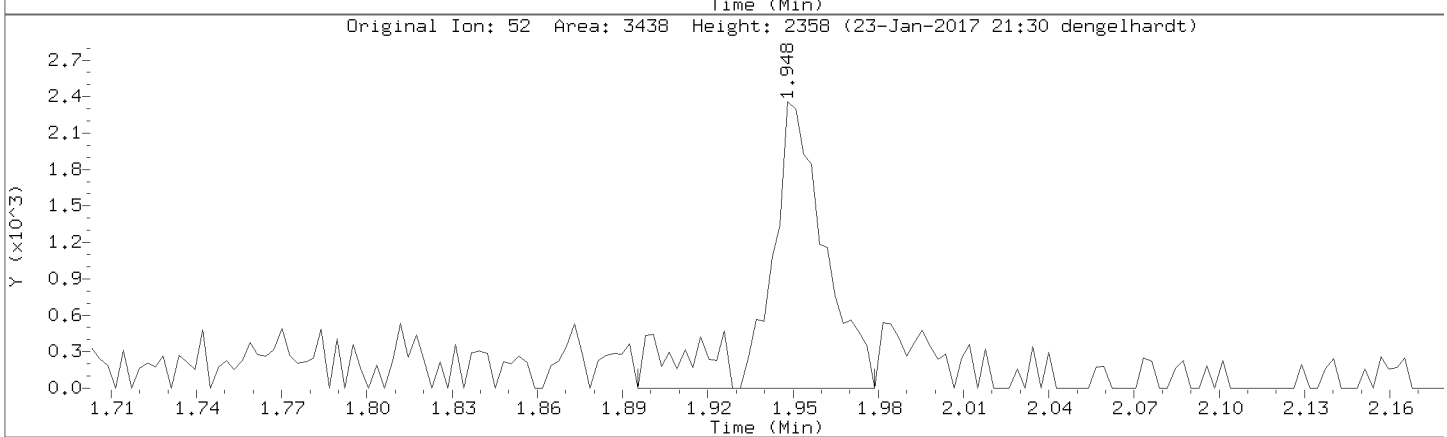
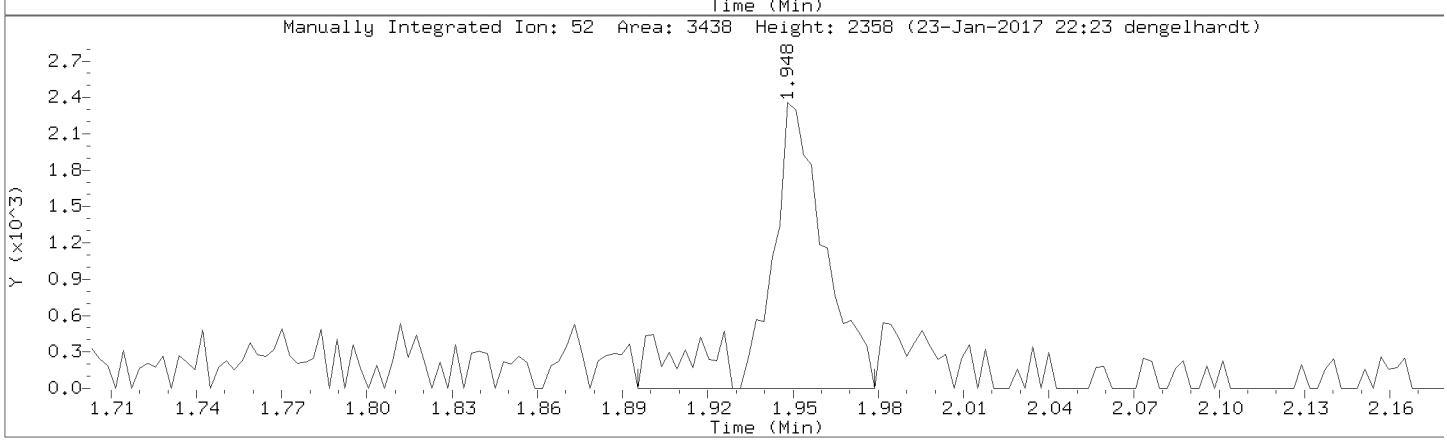
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acrylonitrile Review Code: LT
CAS Number: 107-13-1



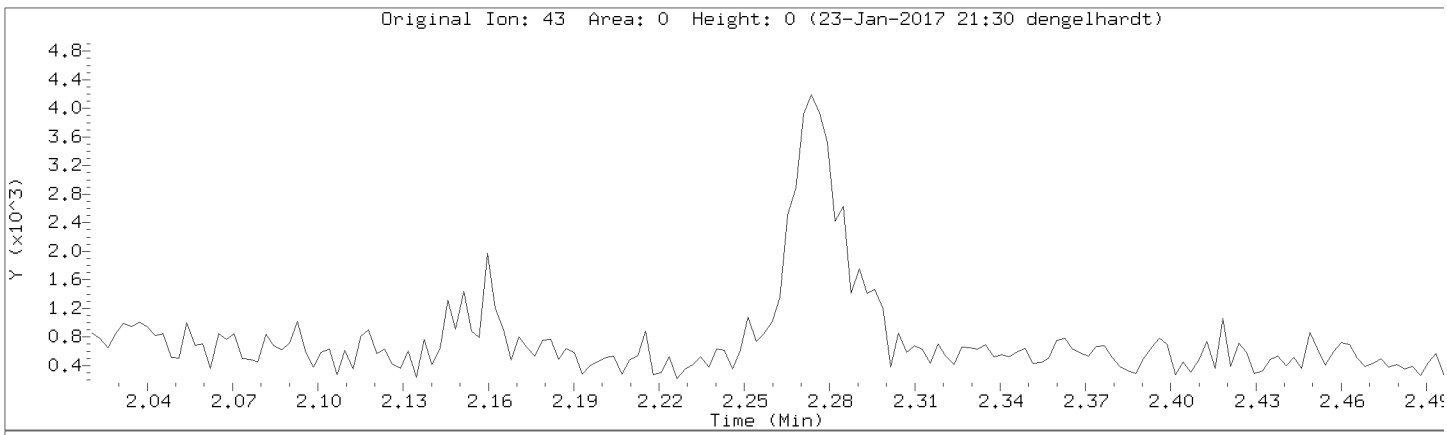


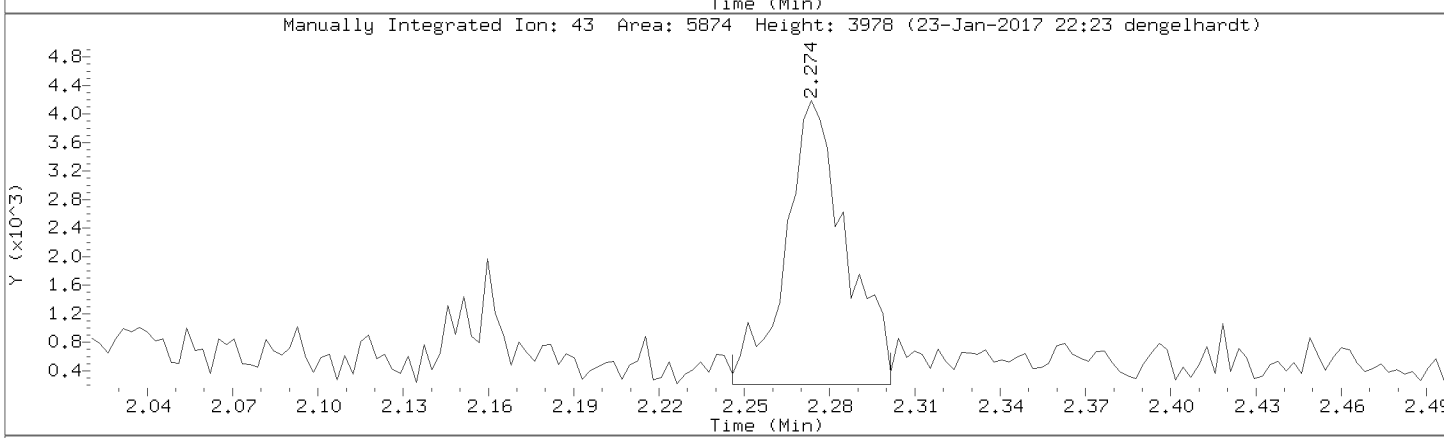


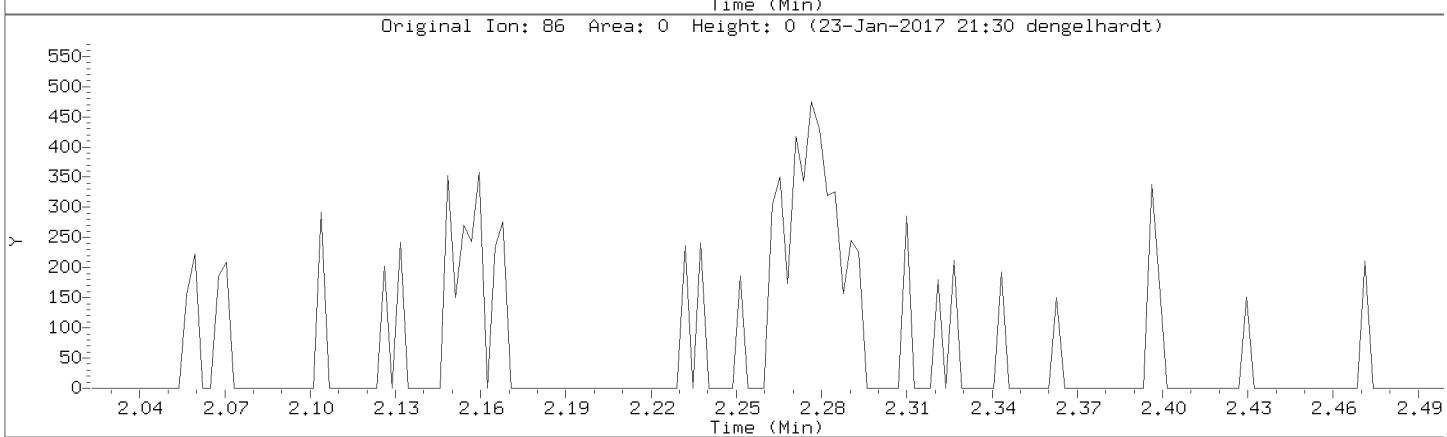


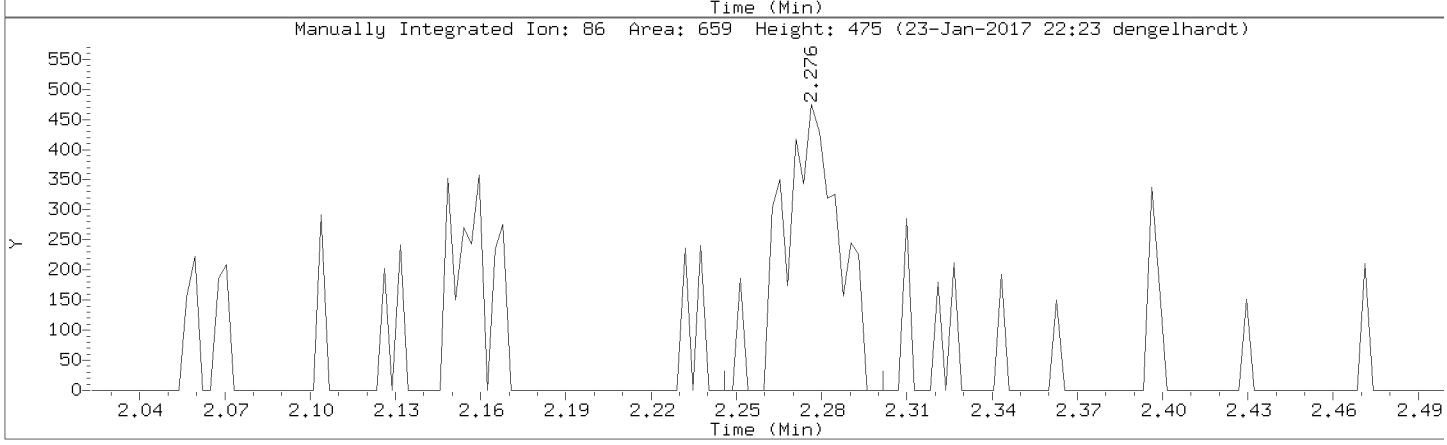
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Vinyl Acetate Review Code: LT
CAS Number: 108-05-4









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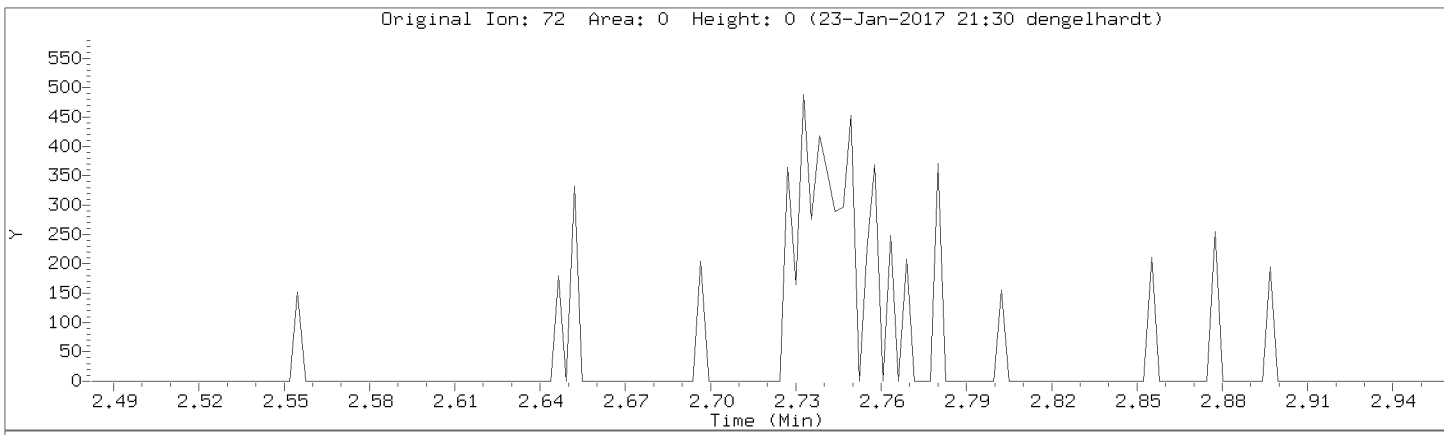
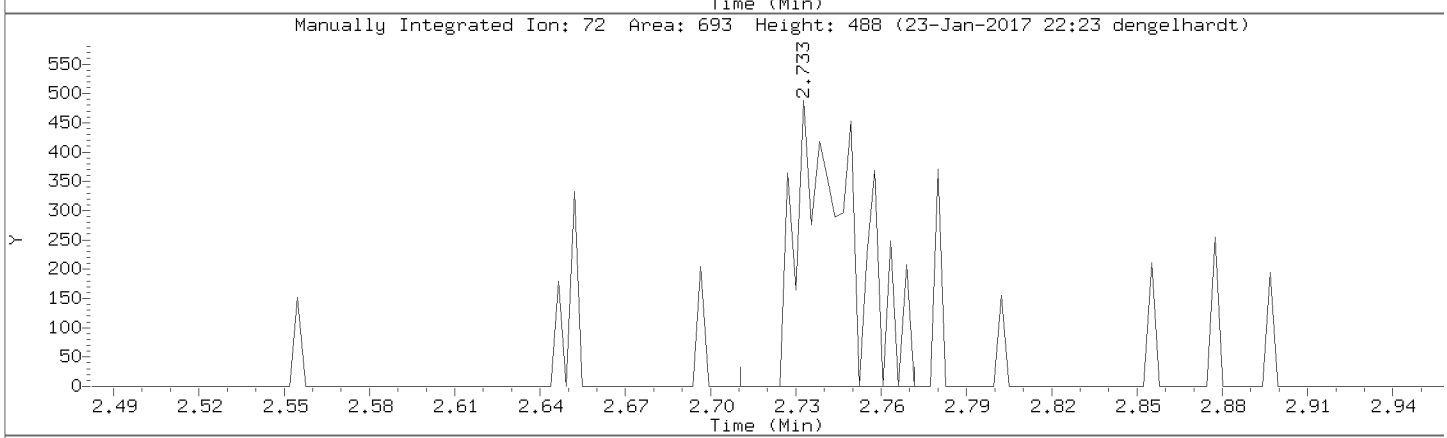
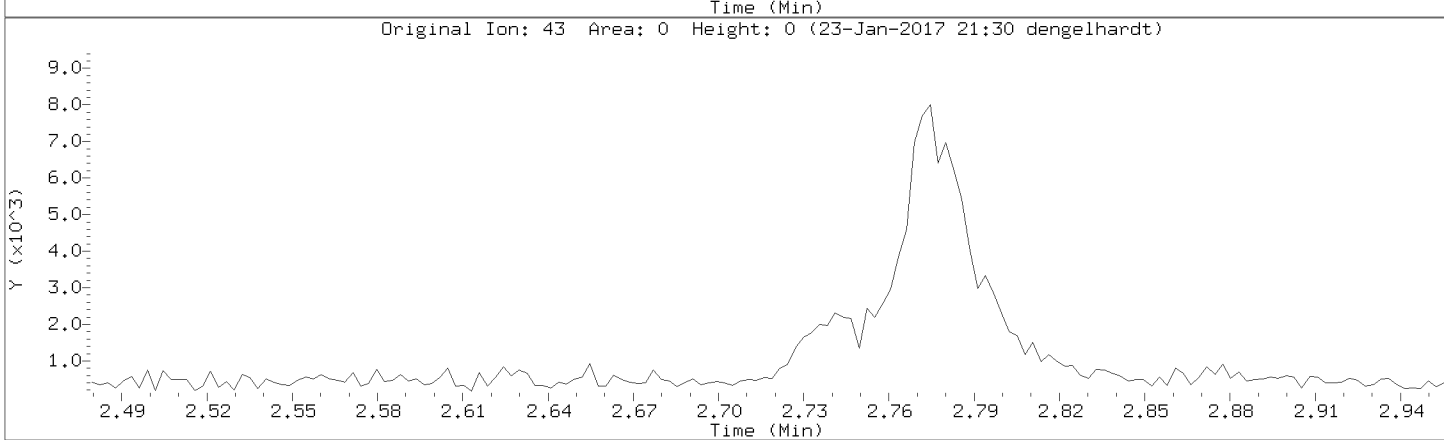
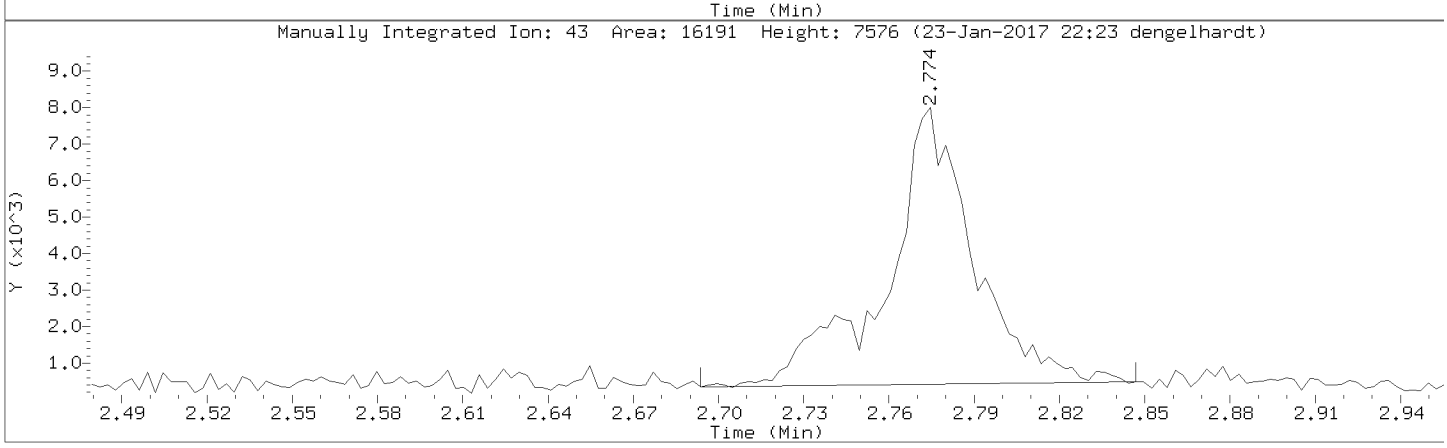
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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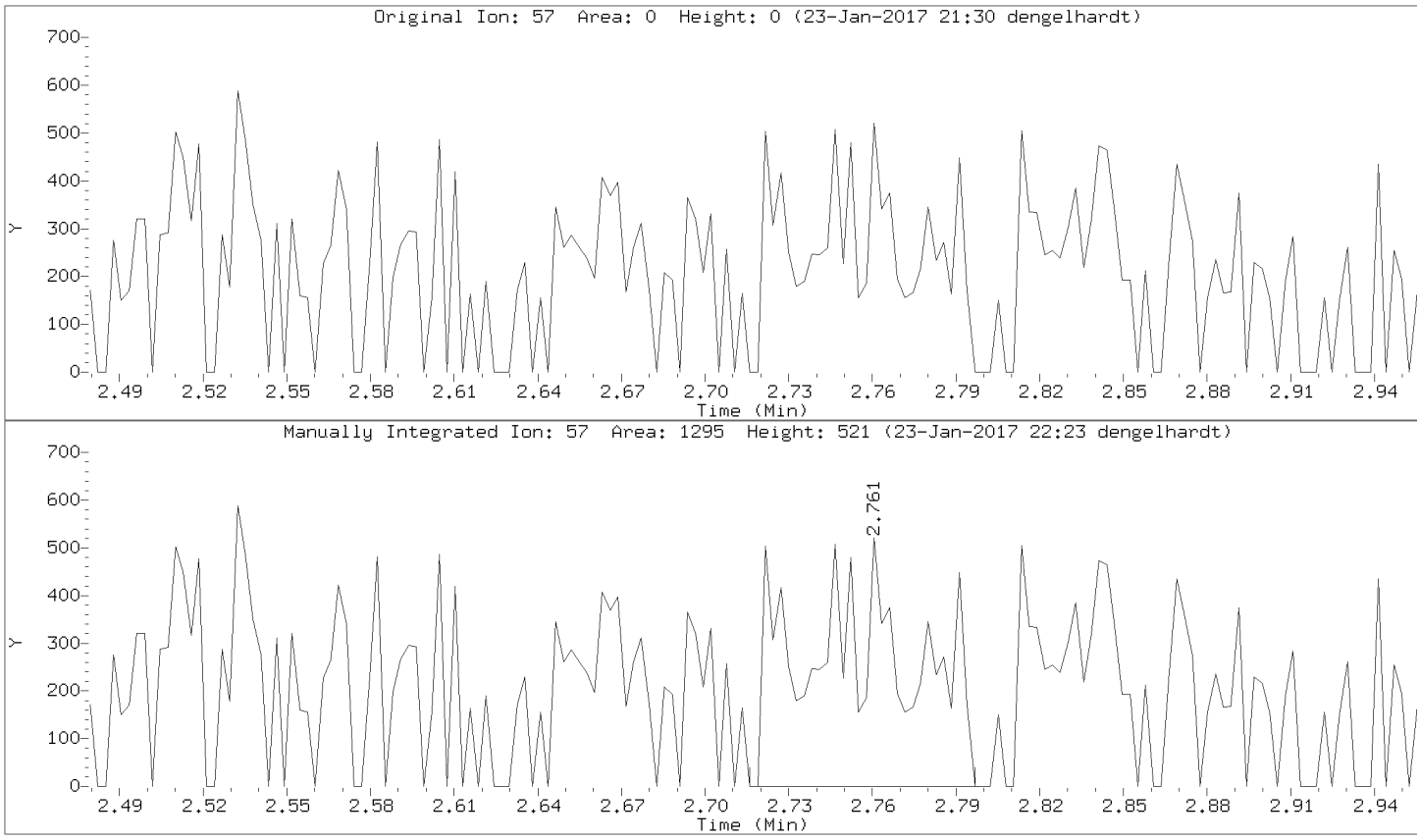
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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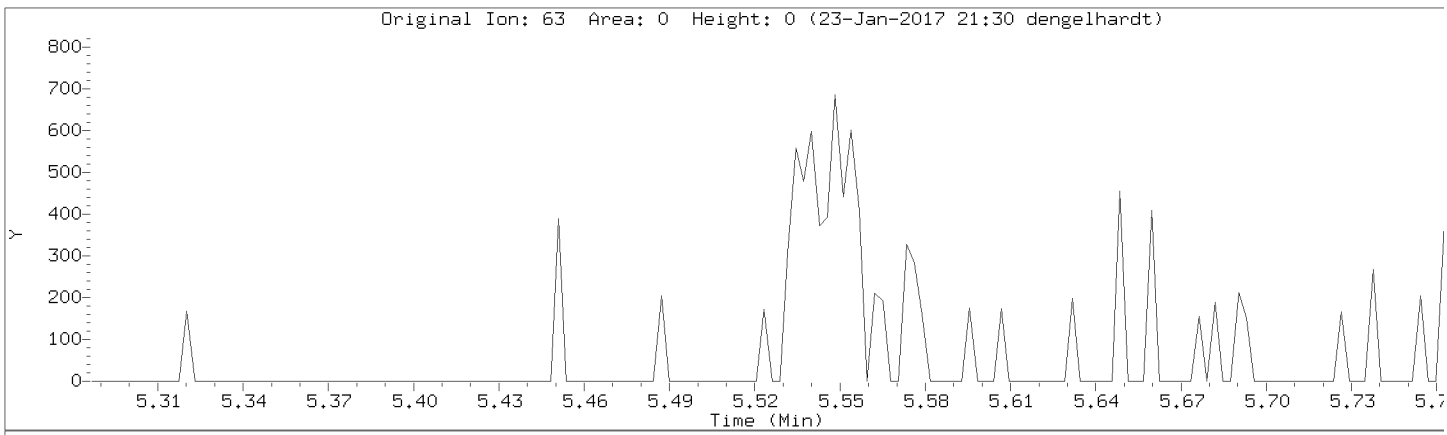
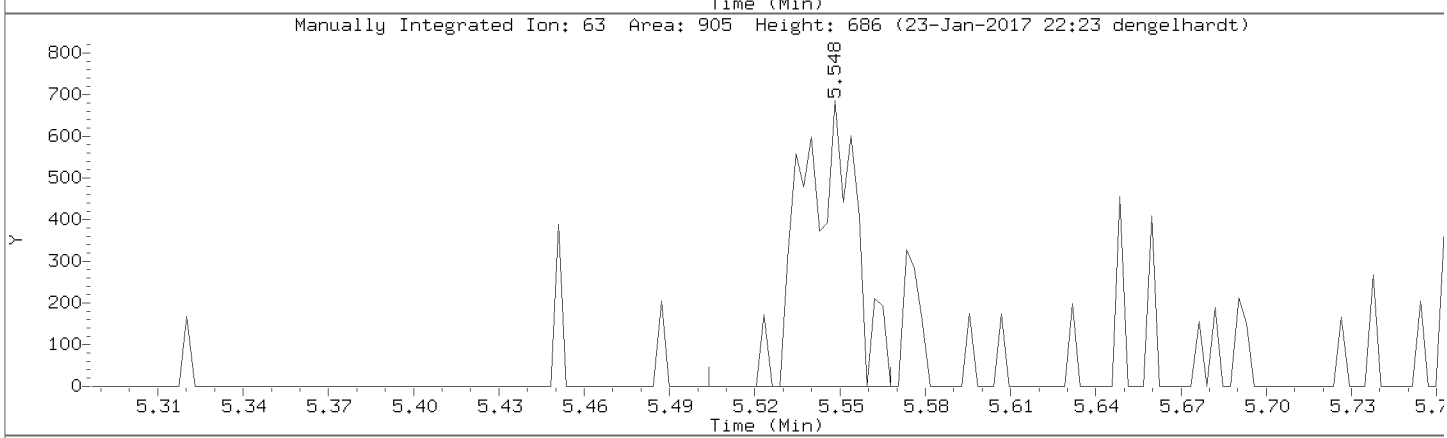
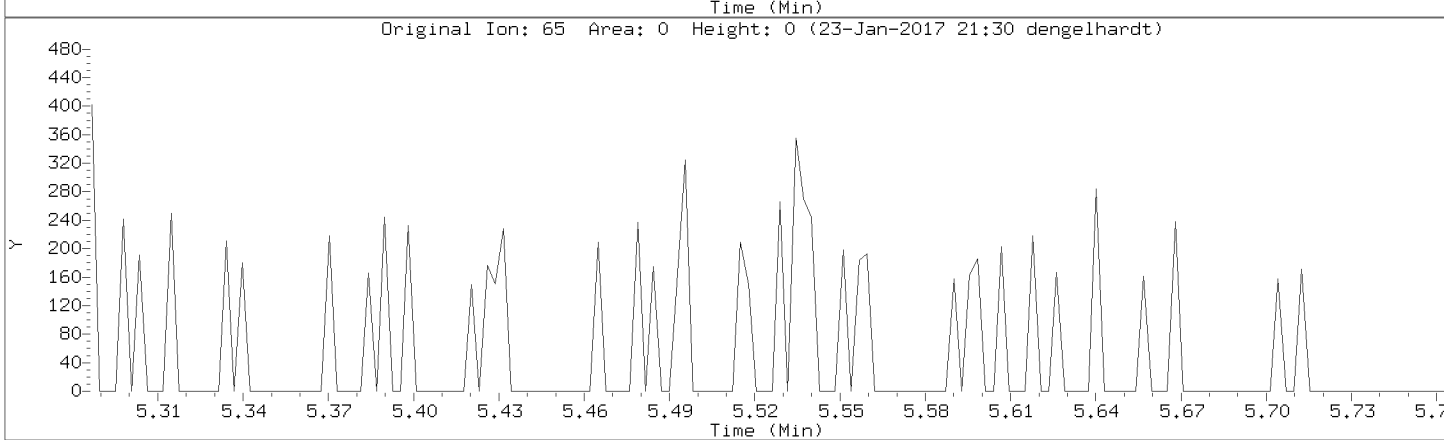
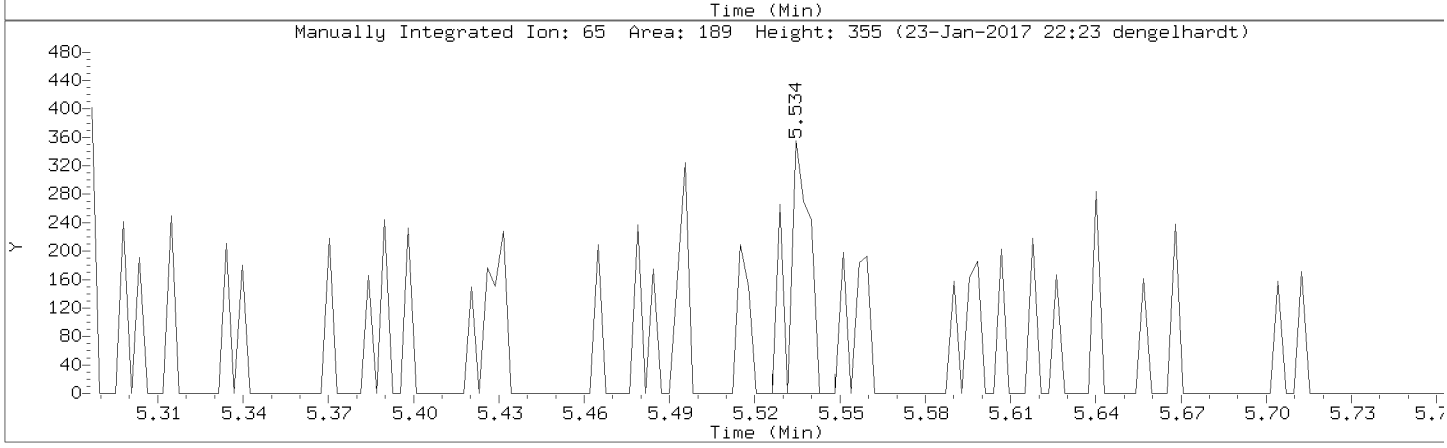
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8









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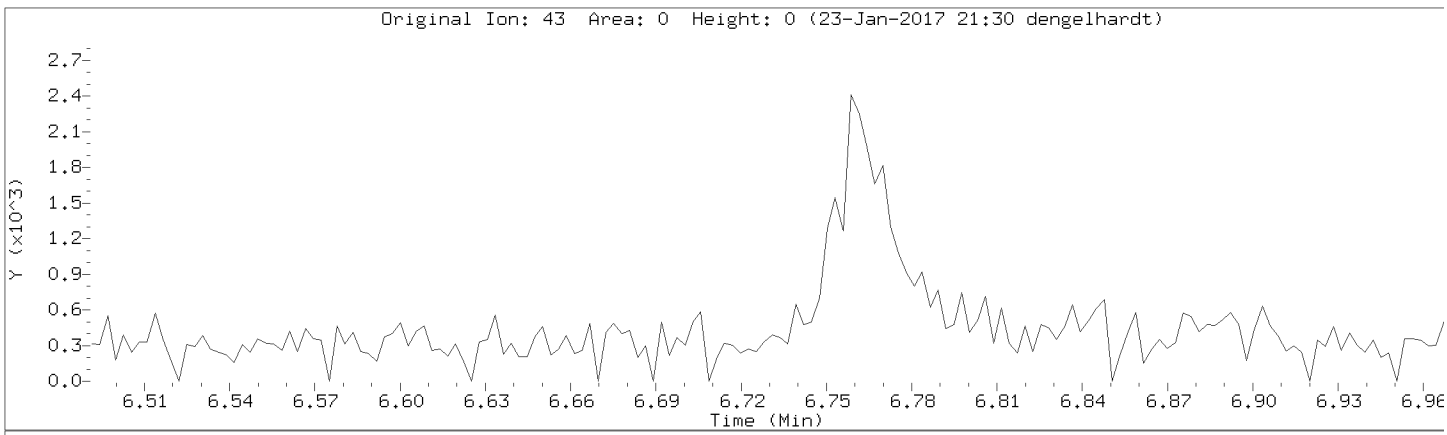
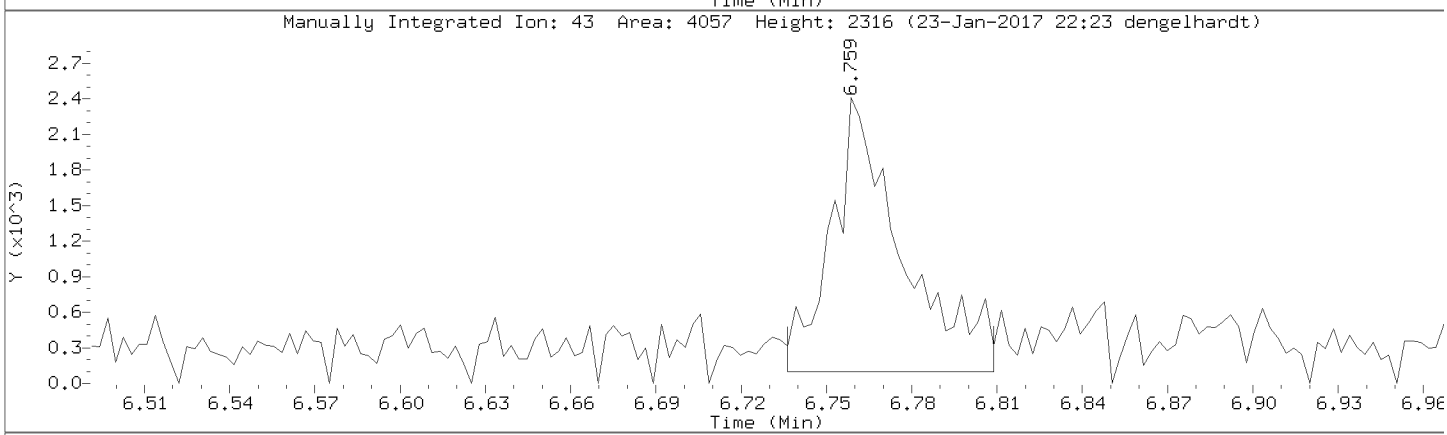
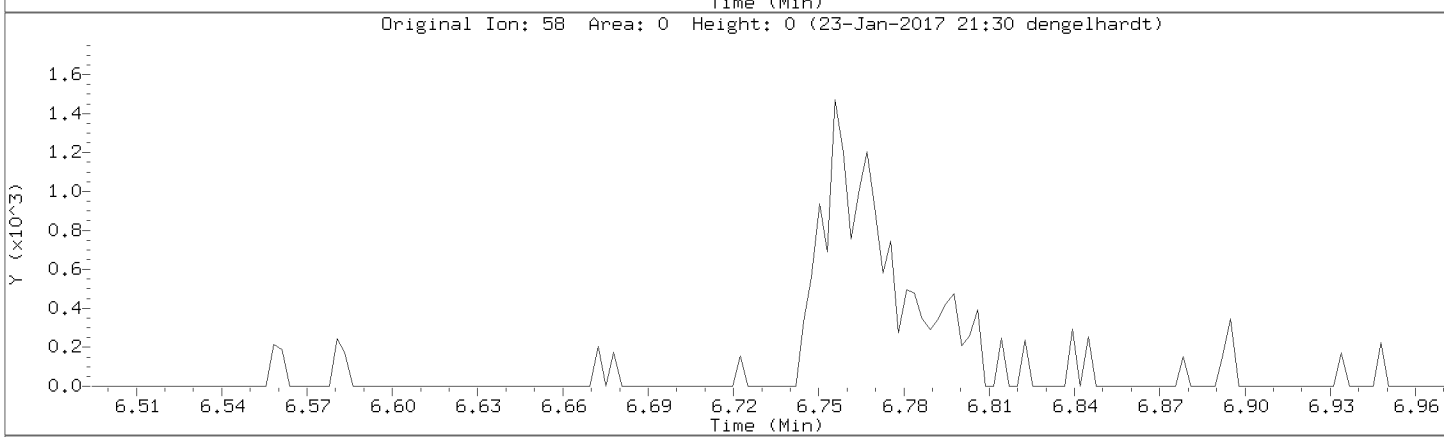
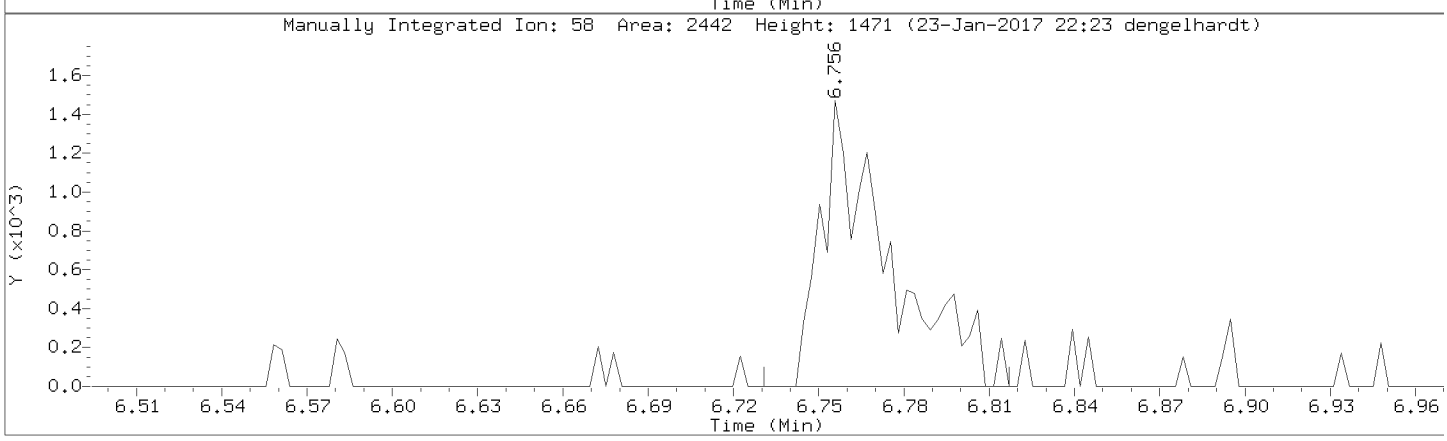
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6









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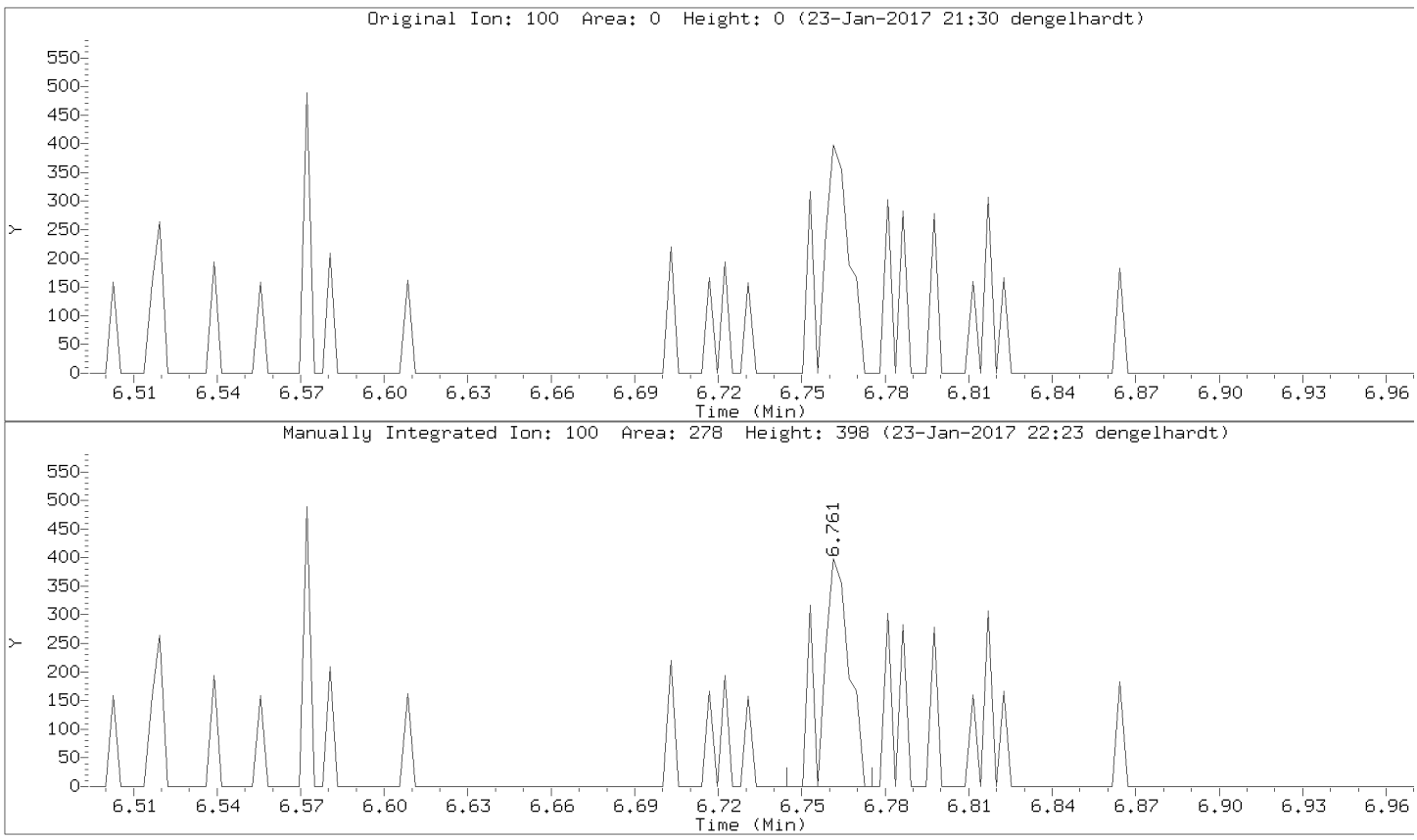
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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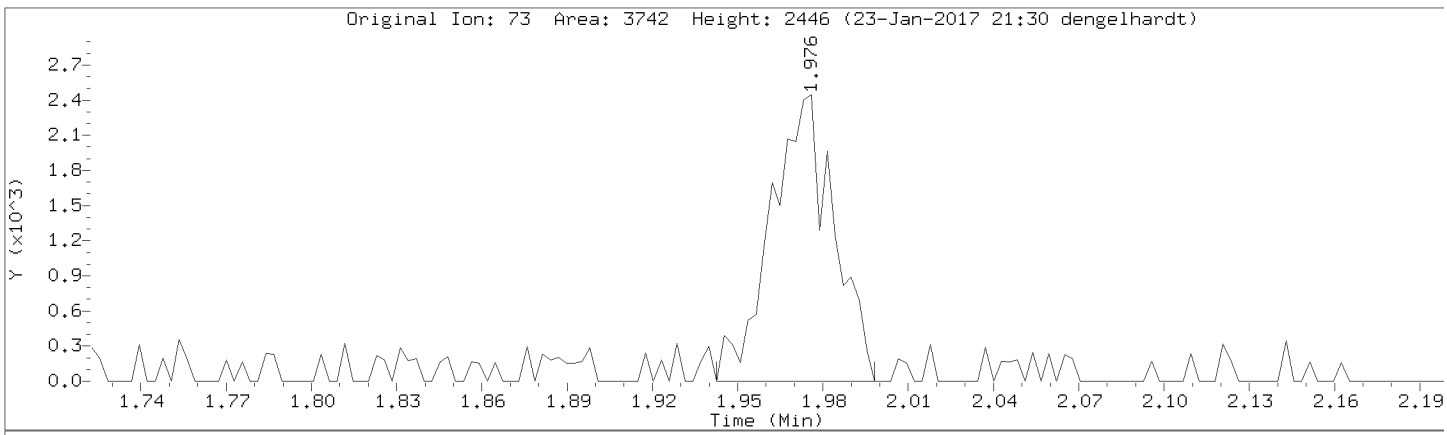
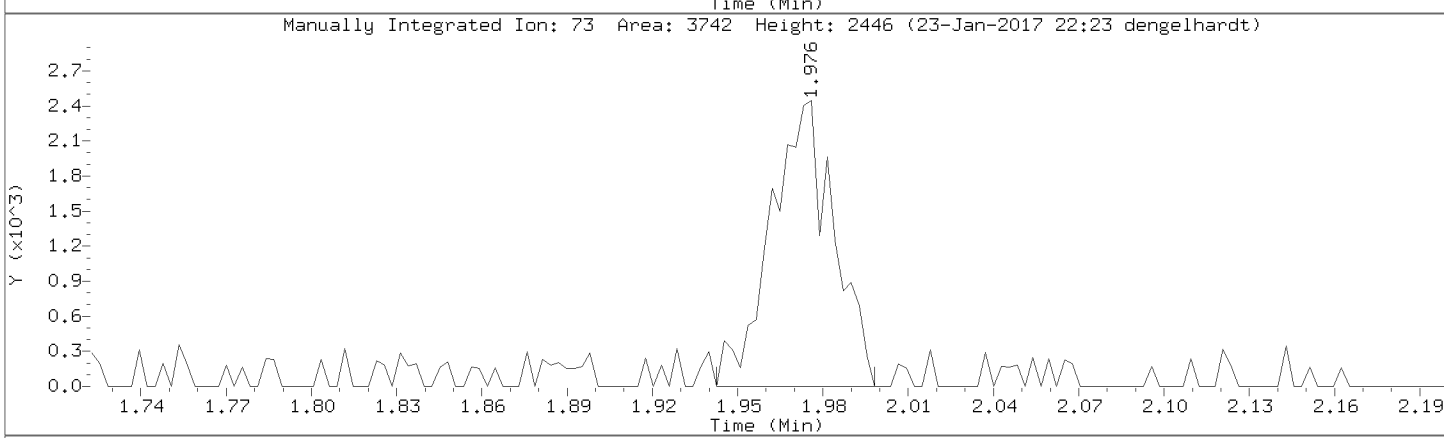
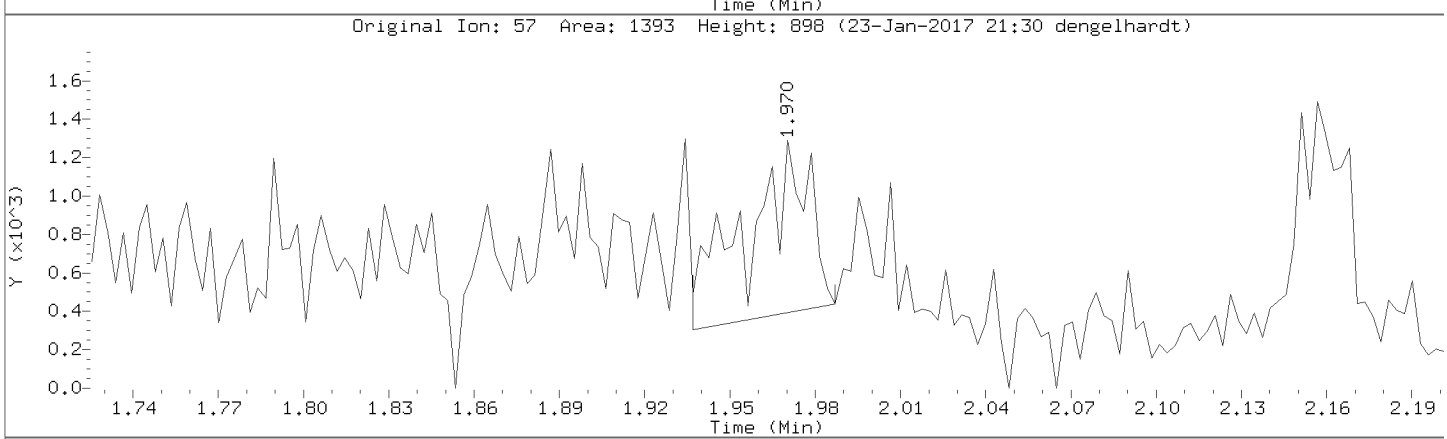
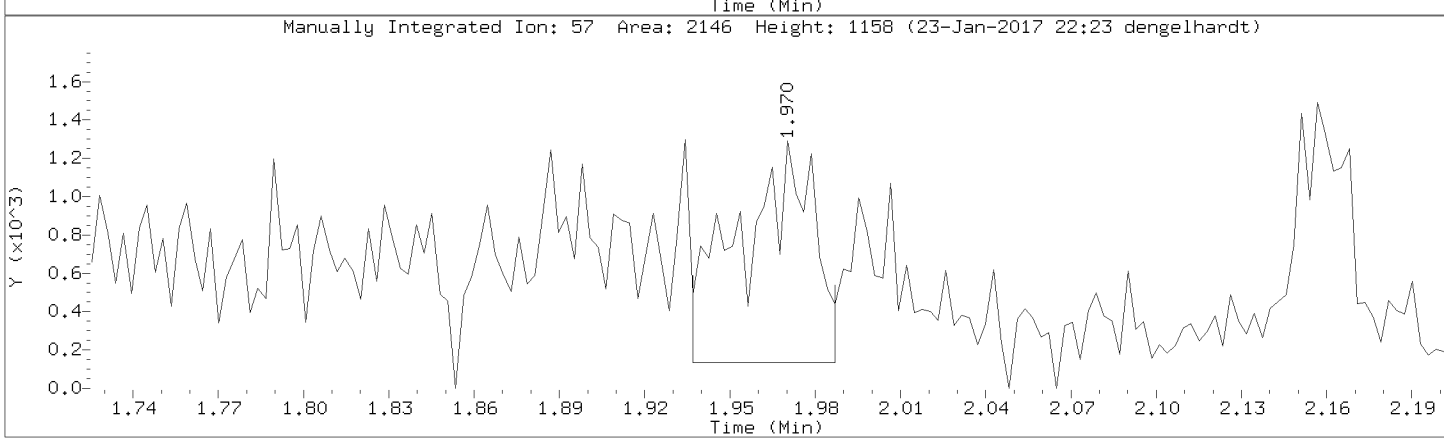
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methyl-tert-butyl ether Review Code: LT
CAS Number: 1634-04-4









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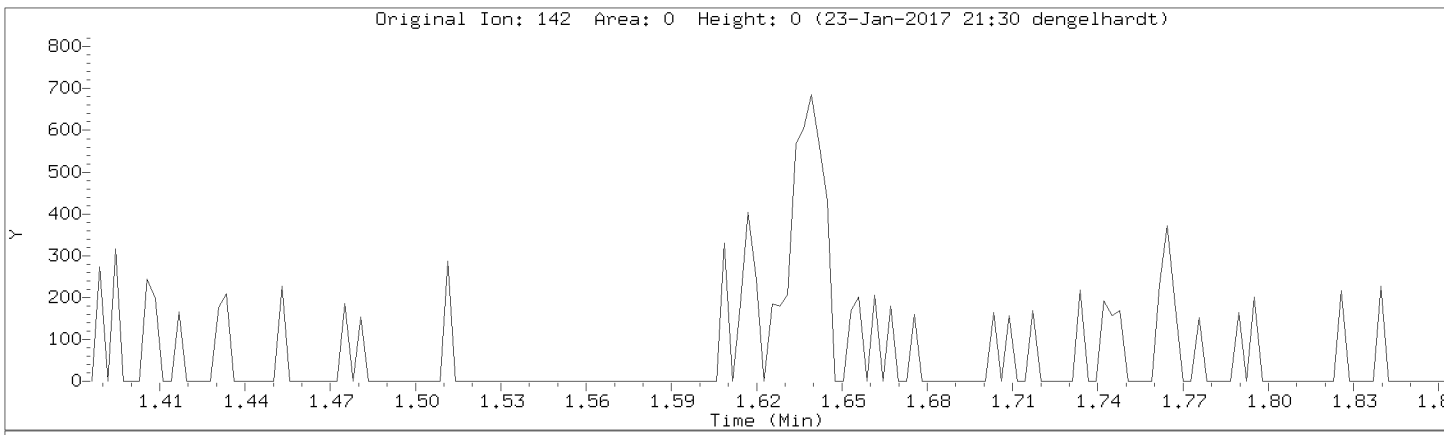
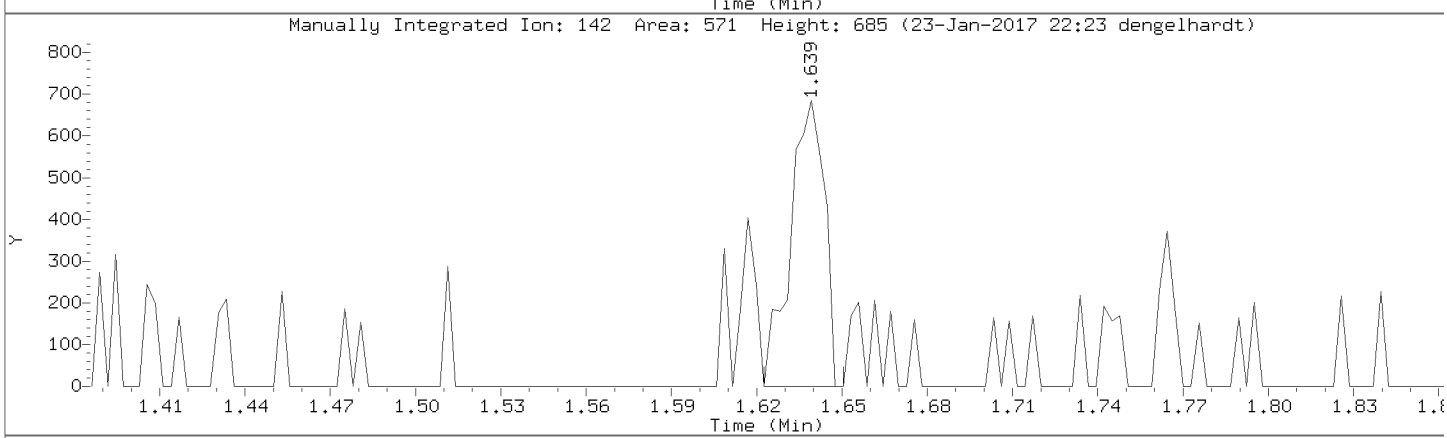
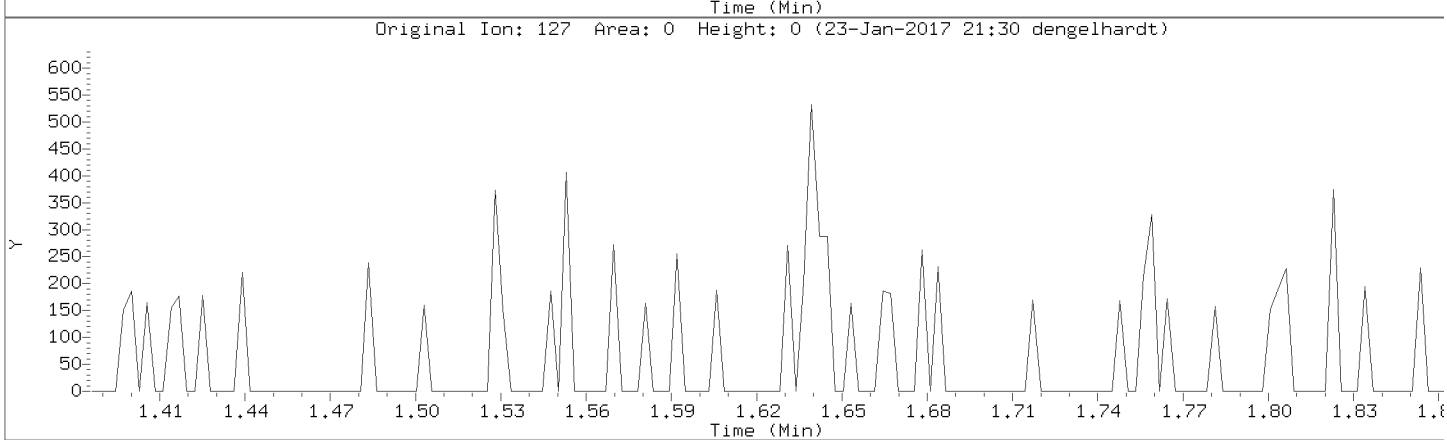
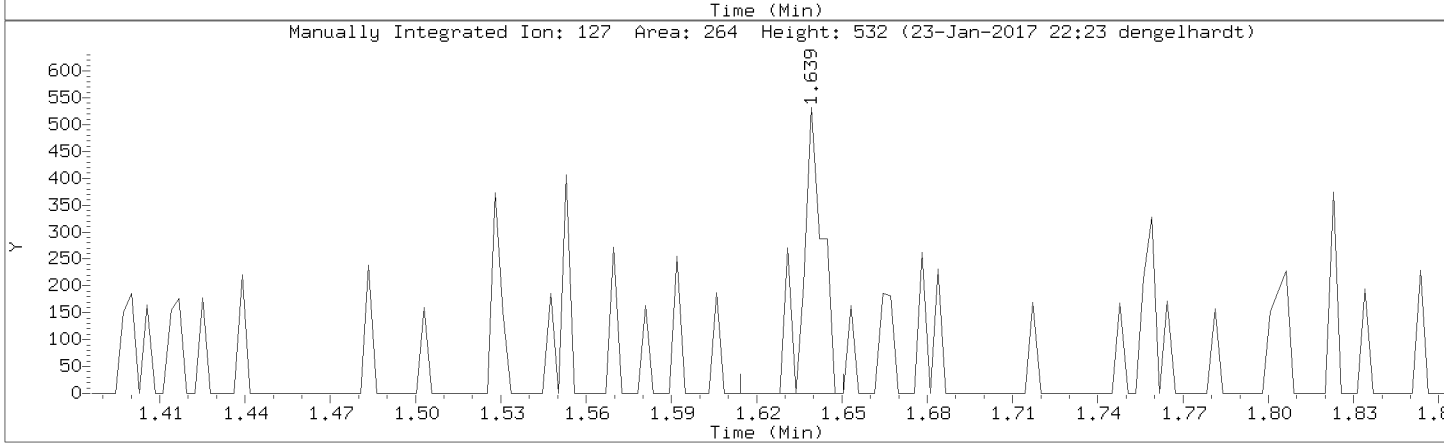
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Iodomethane Review Code: NI
CAS Number:









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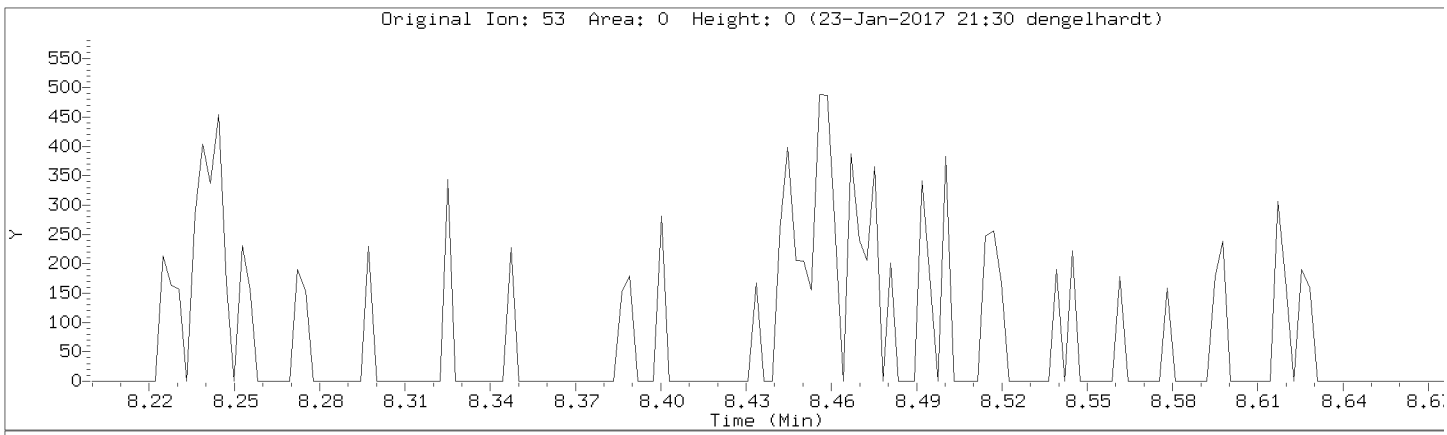
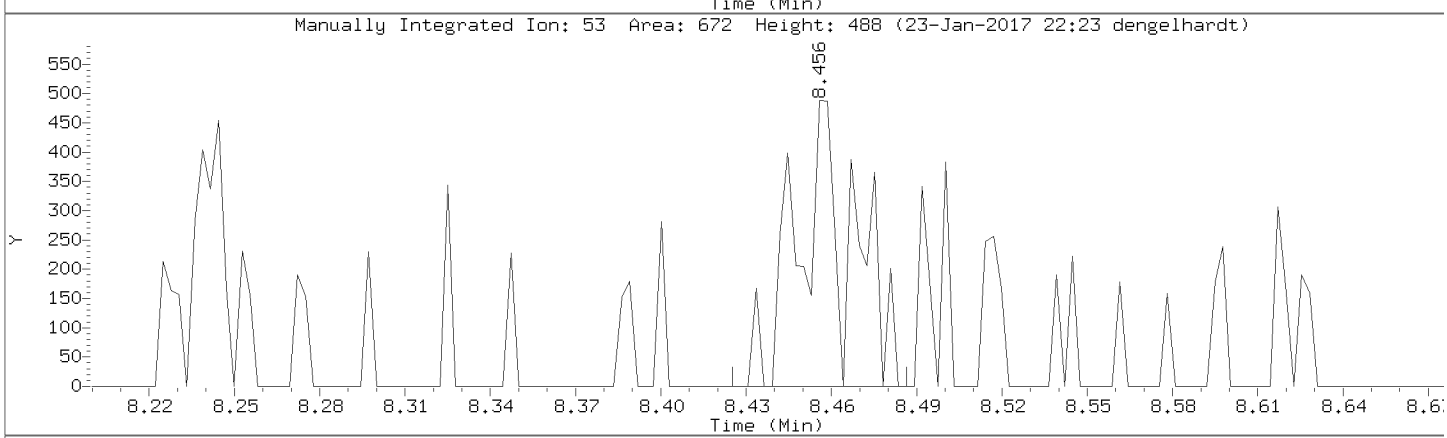
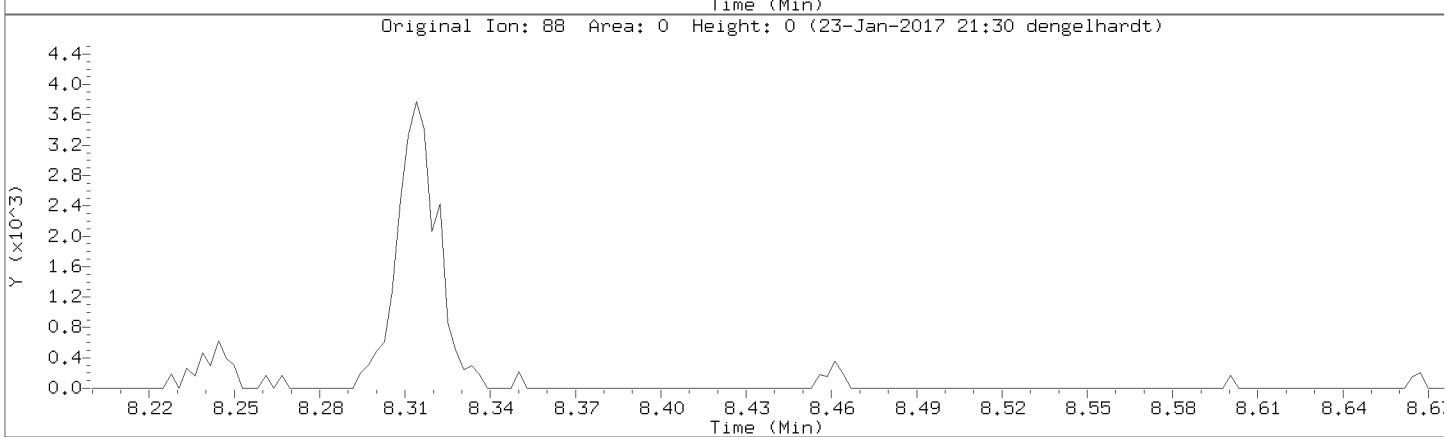
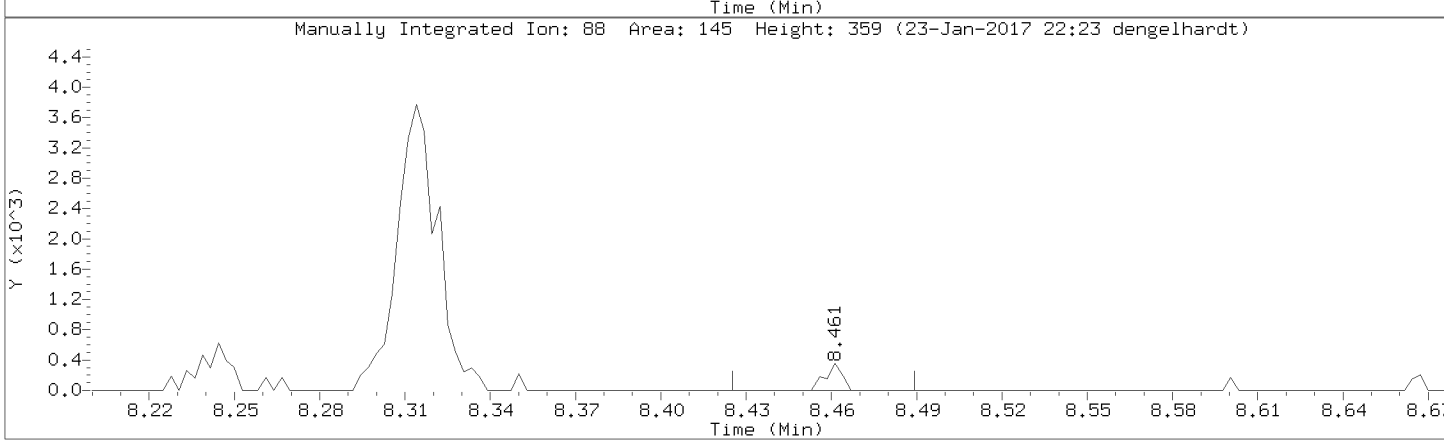
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: trans-1,4-Dichloro-2-butene Review Code: NI
CAS Number:









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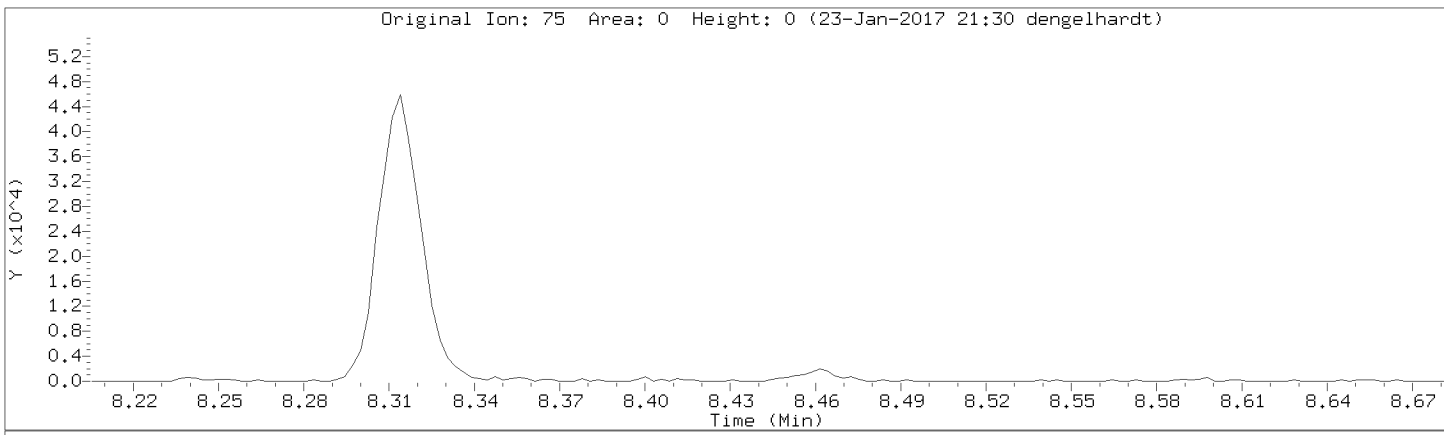
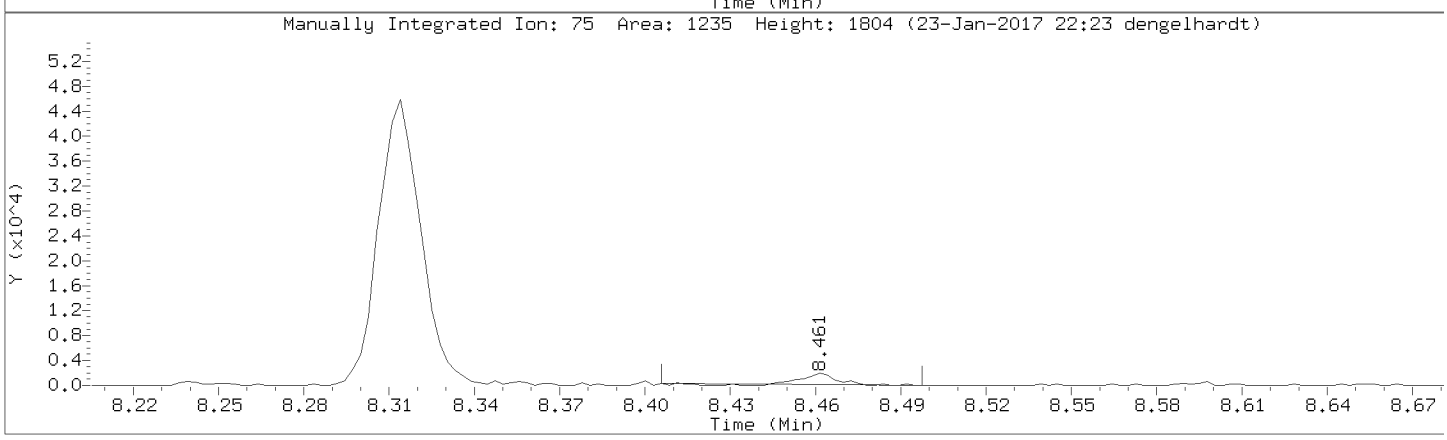
Lab Sample ID: 8260-CAL1,140426:0





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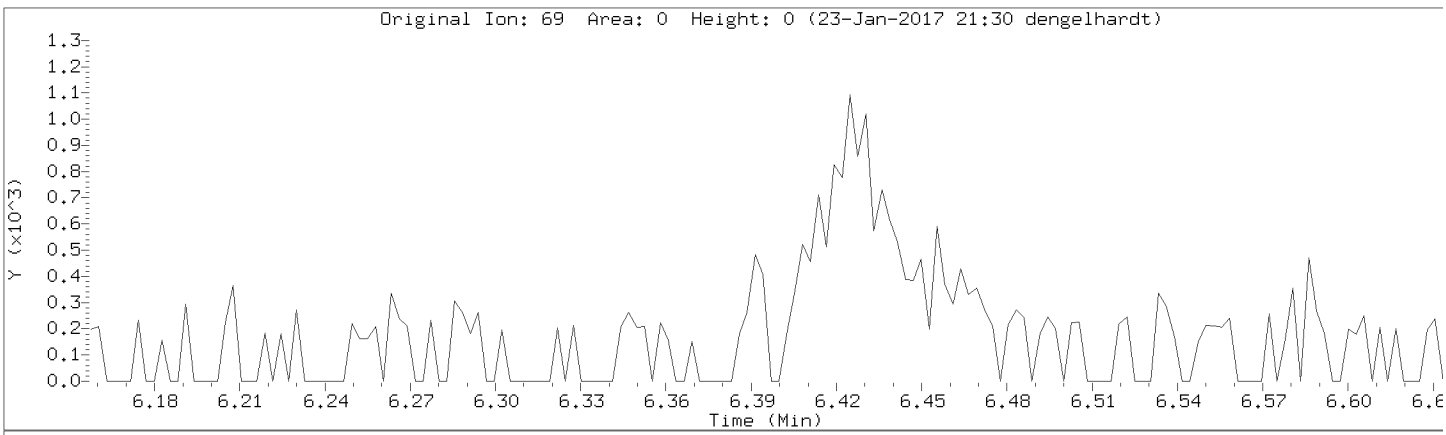
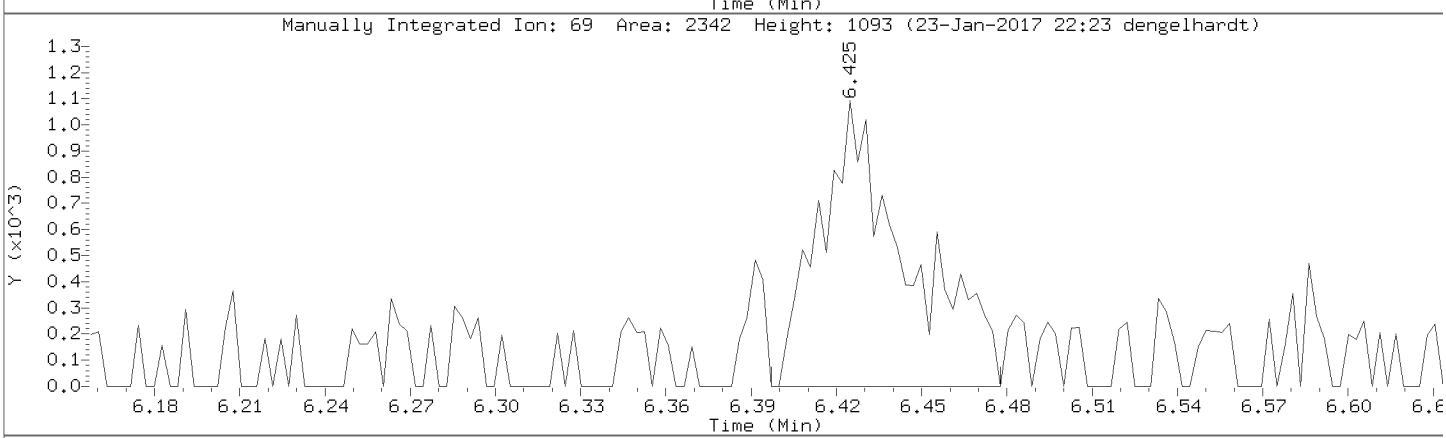
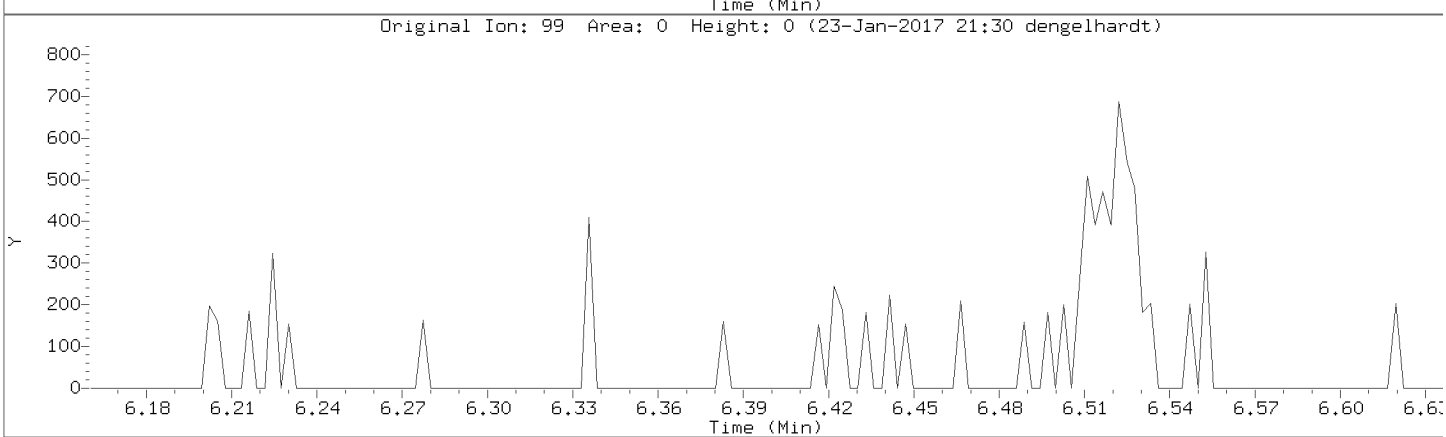
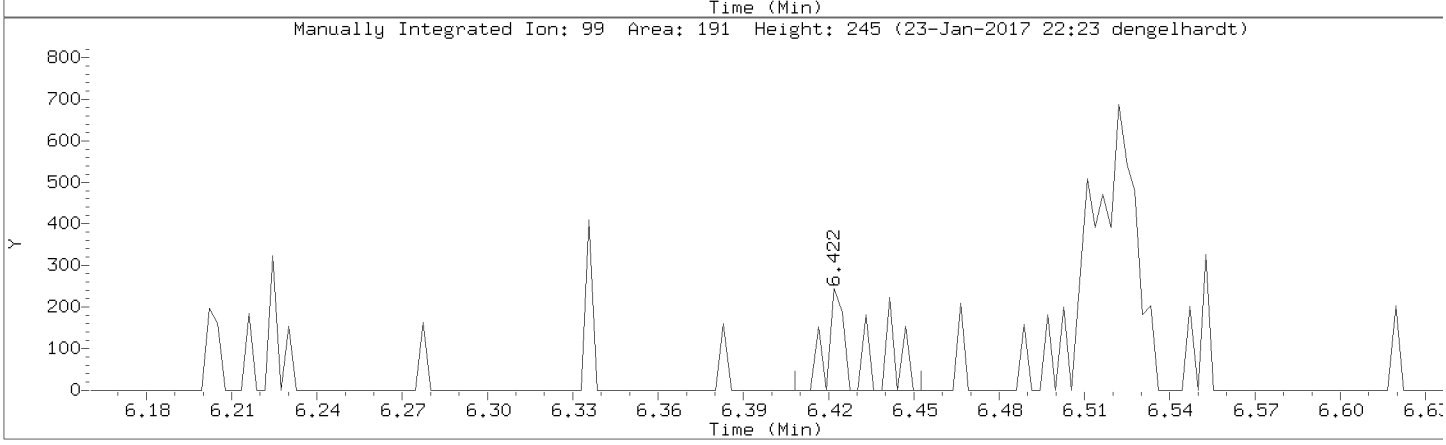
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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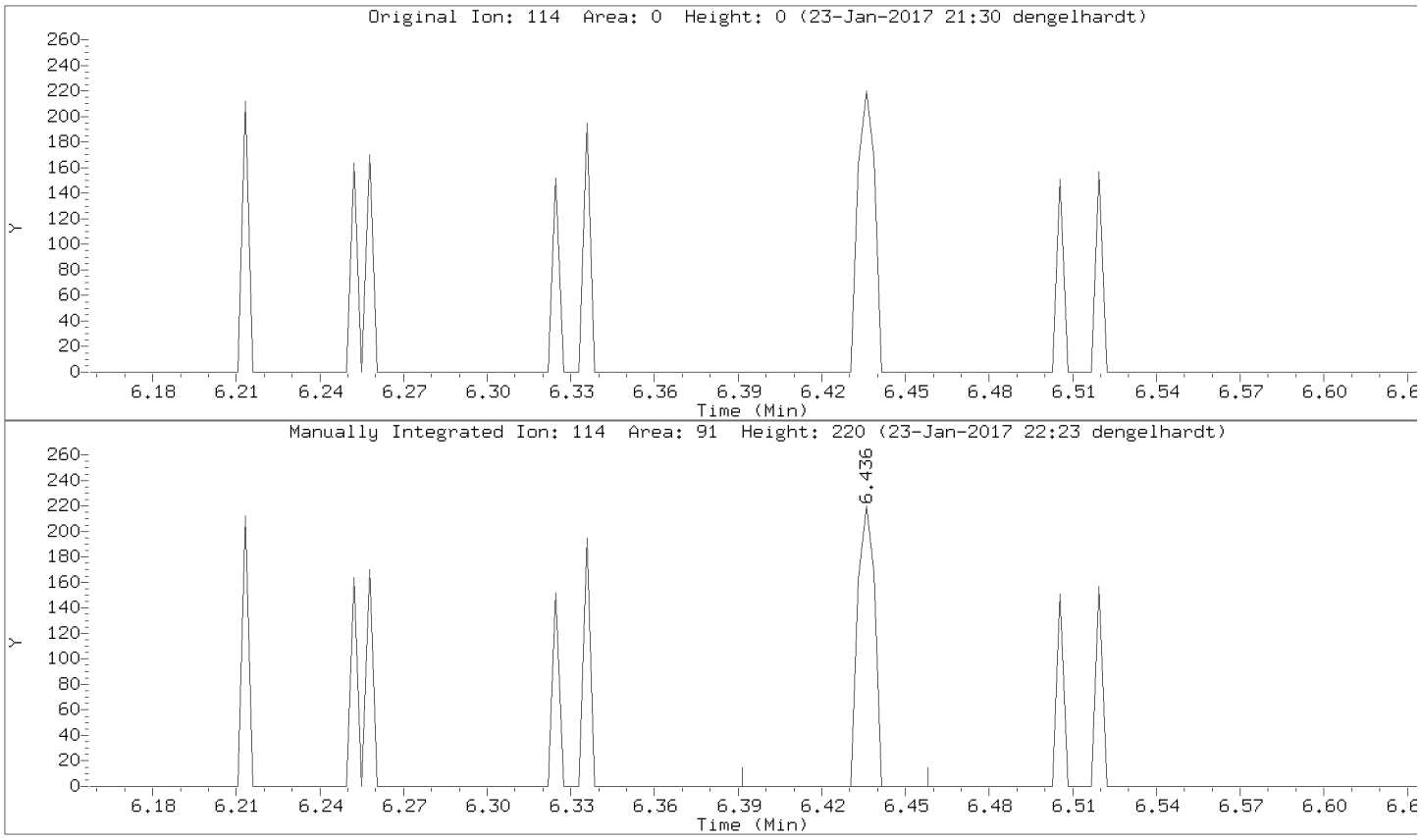
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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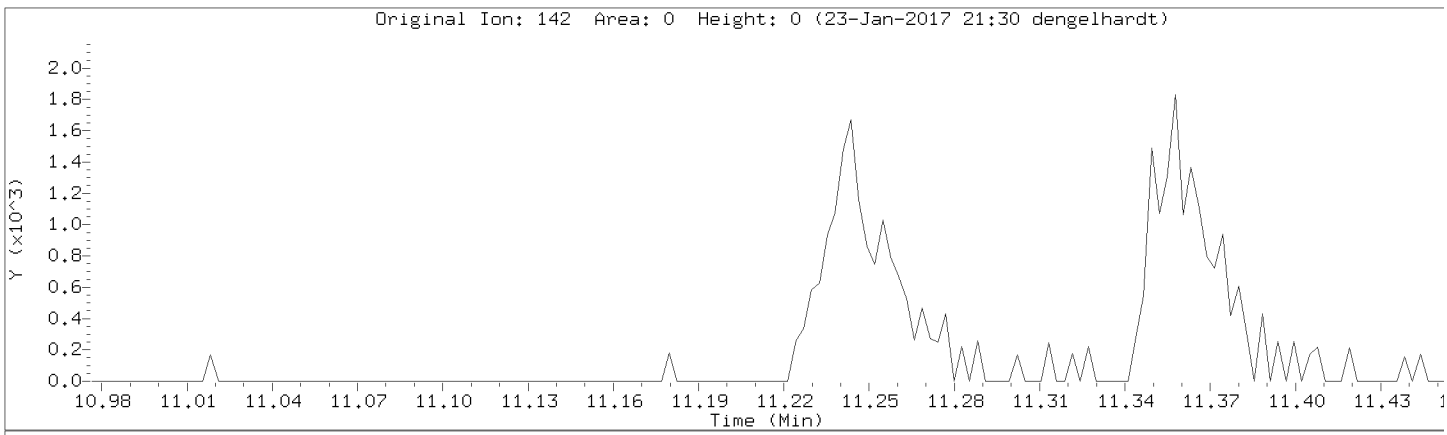
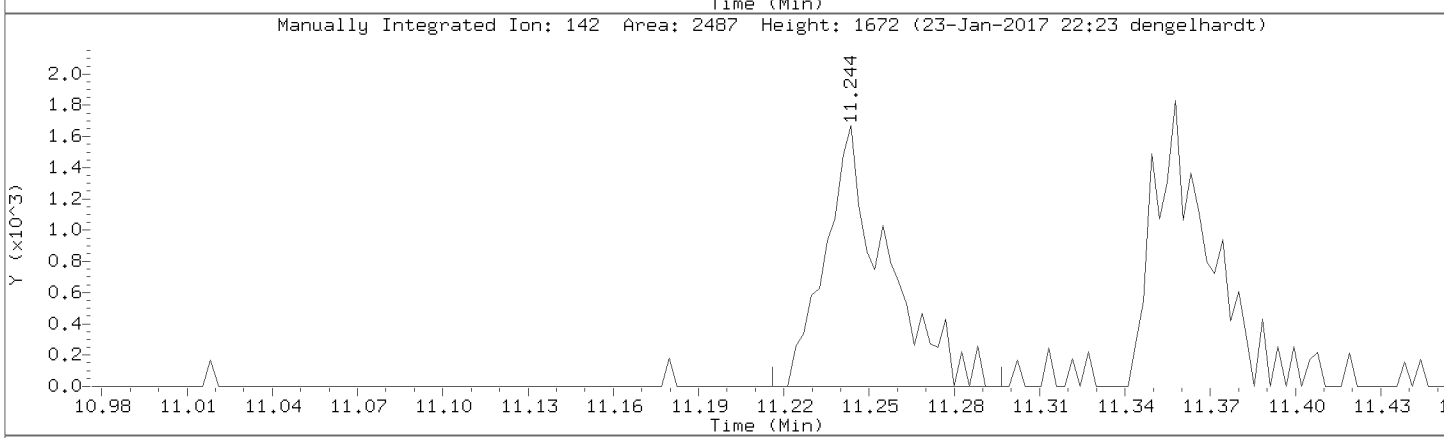
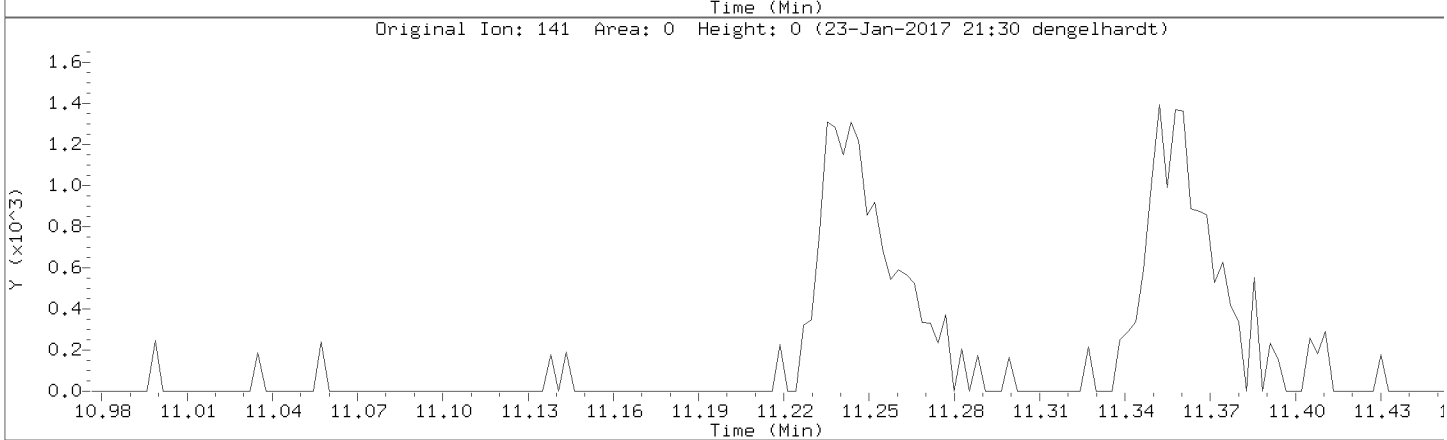
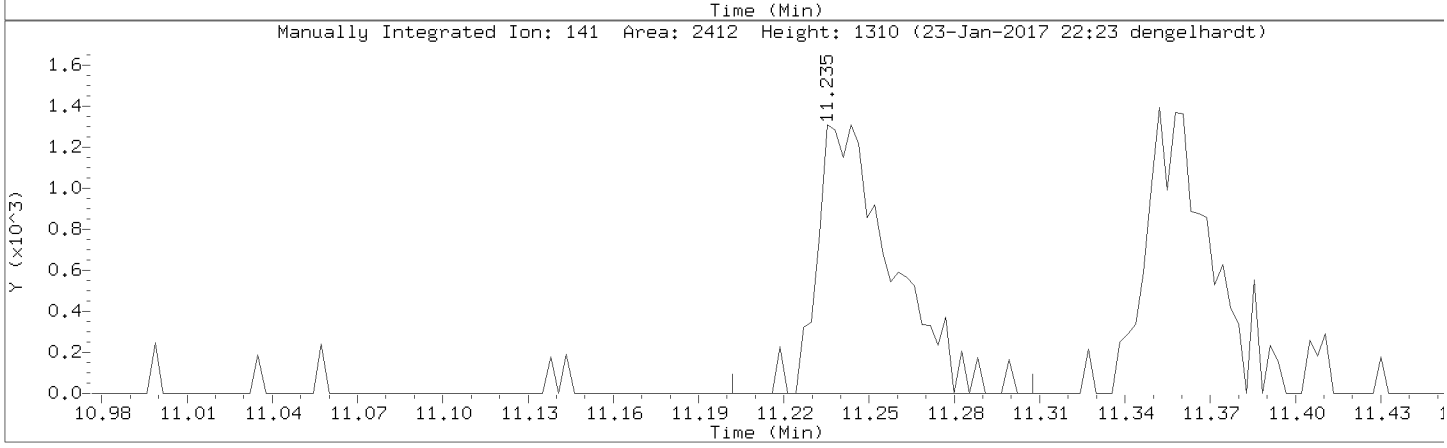
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,methyl-naphthalene Review Code: NI
CAS Number:









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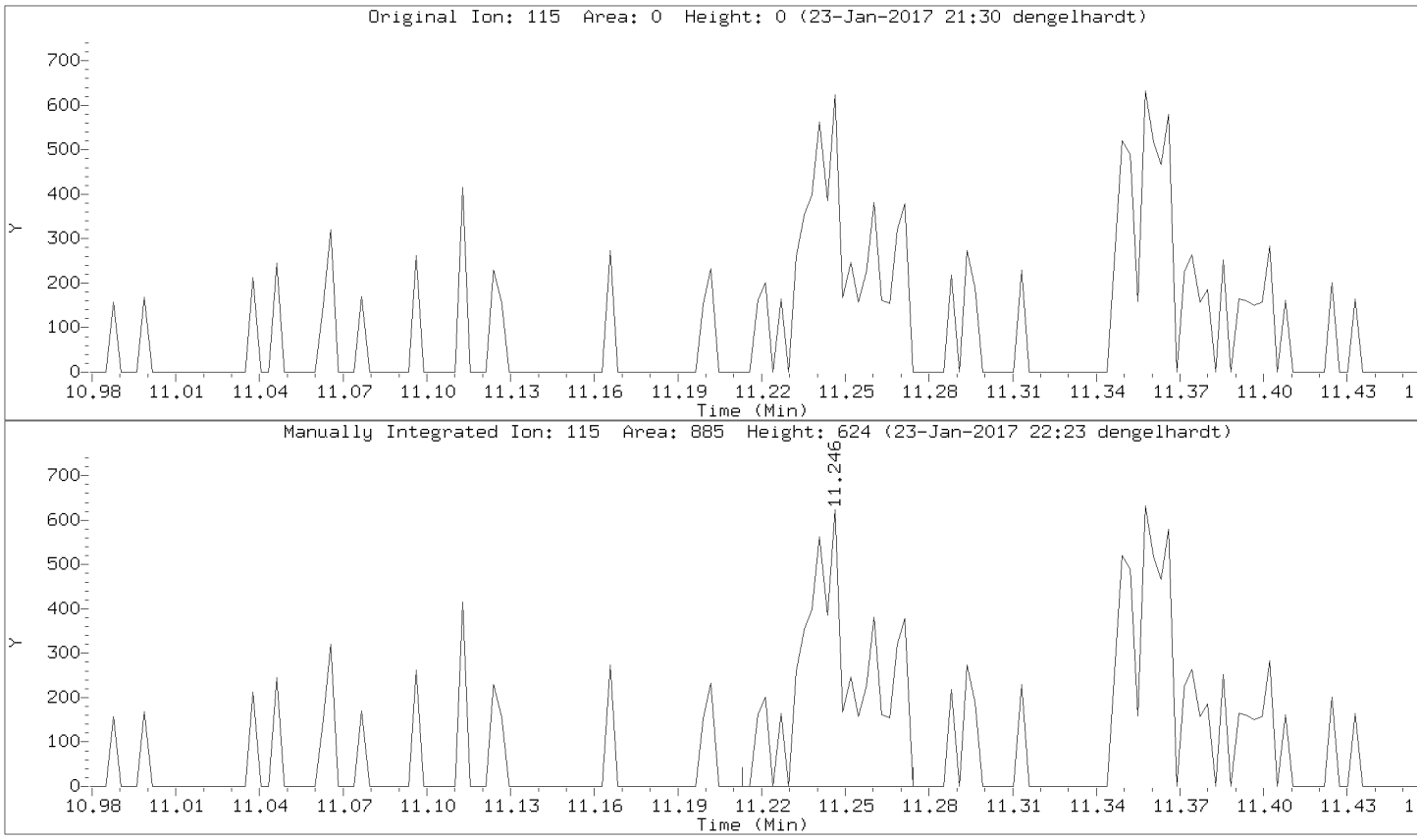
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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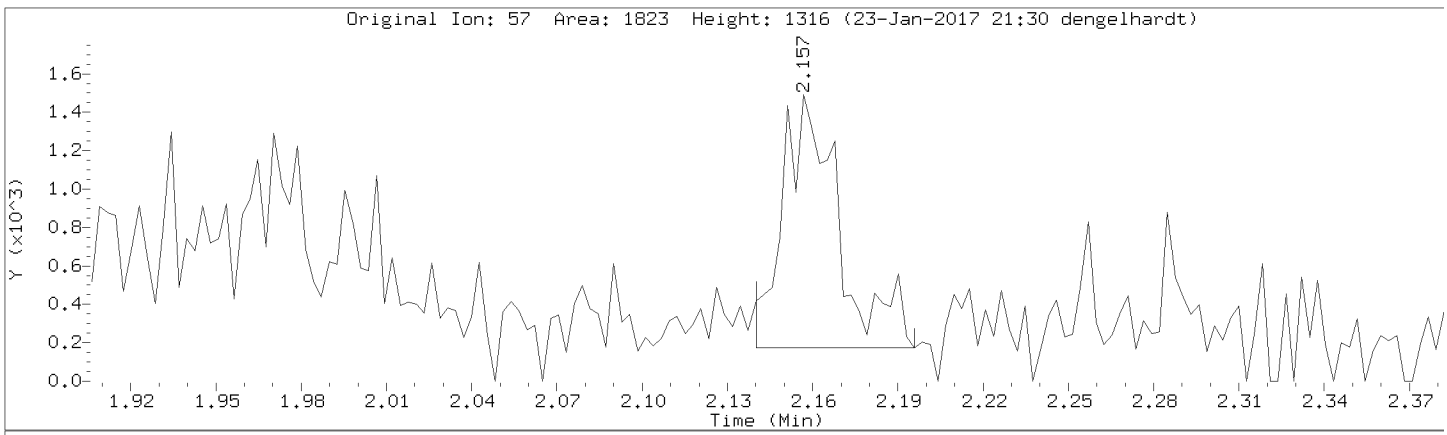
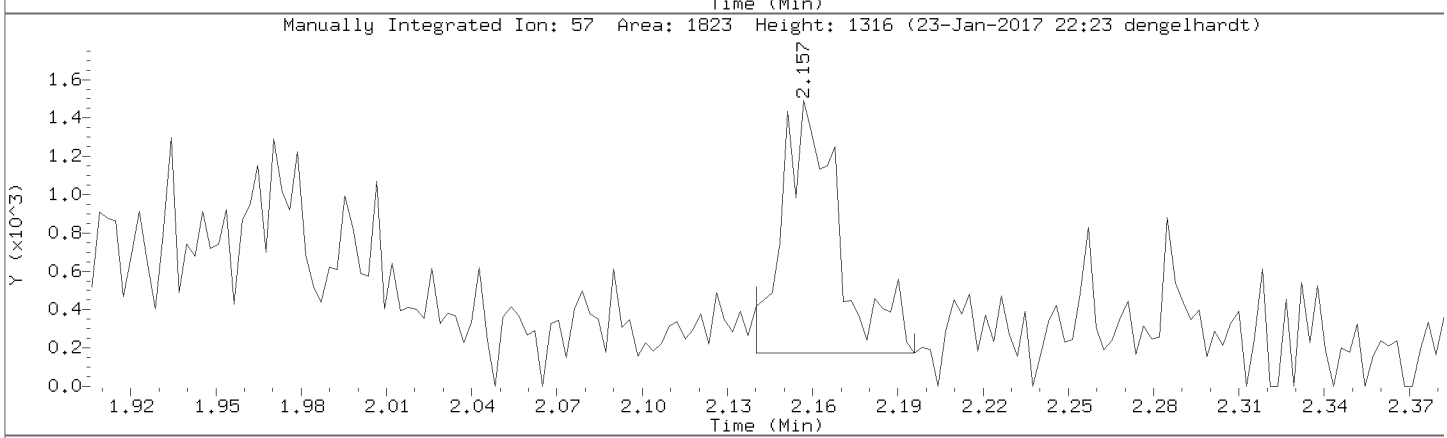
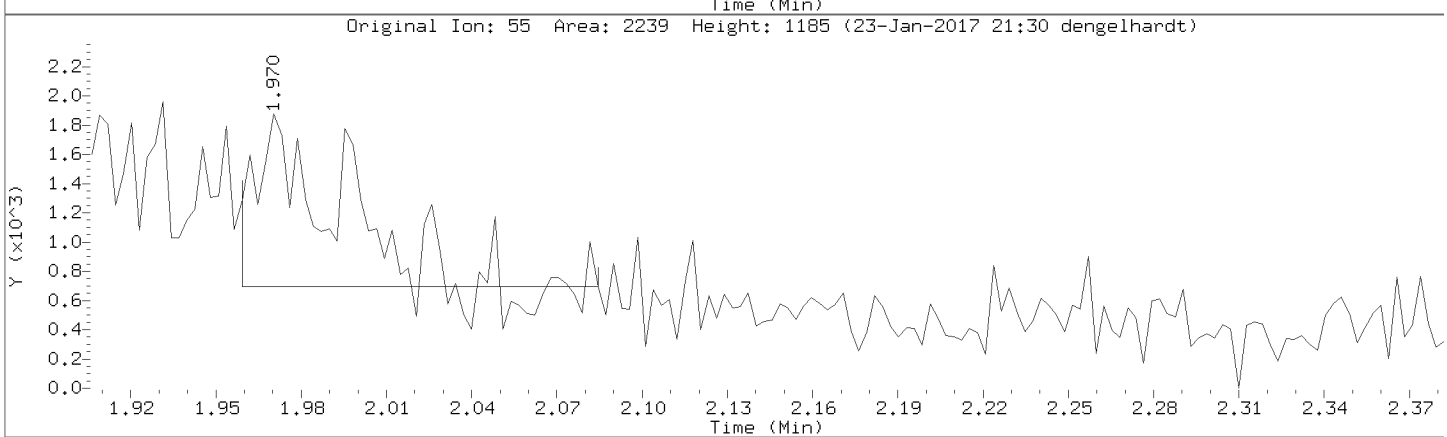
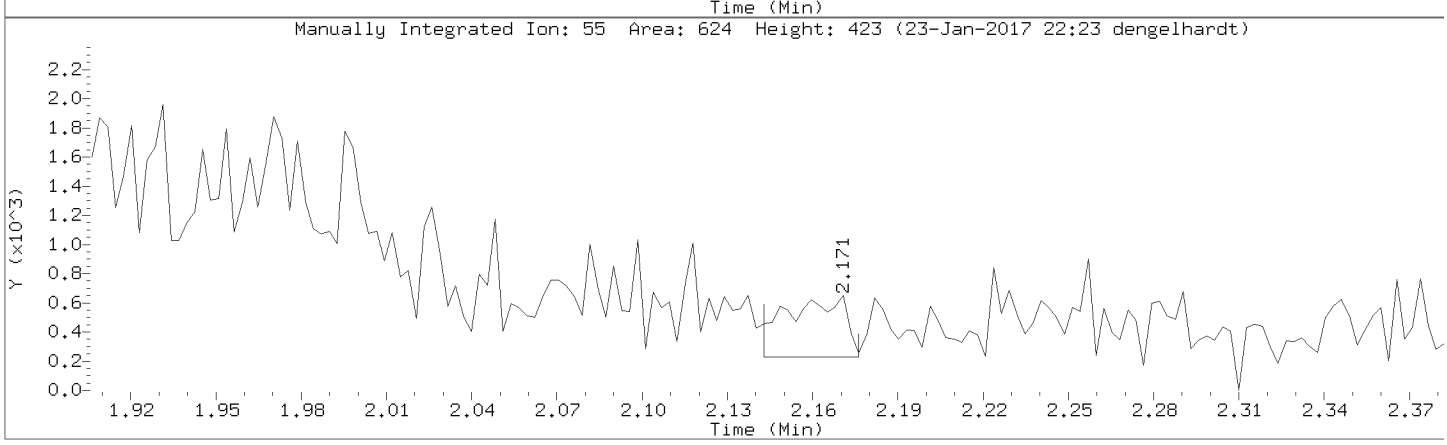
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-Hexane Review Code: LT
CAS Number:



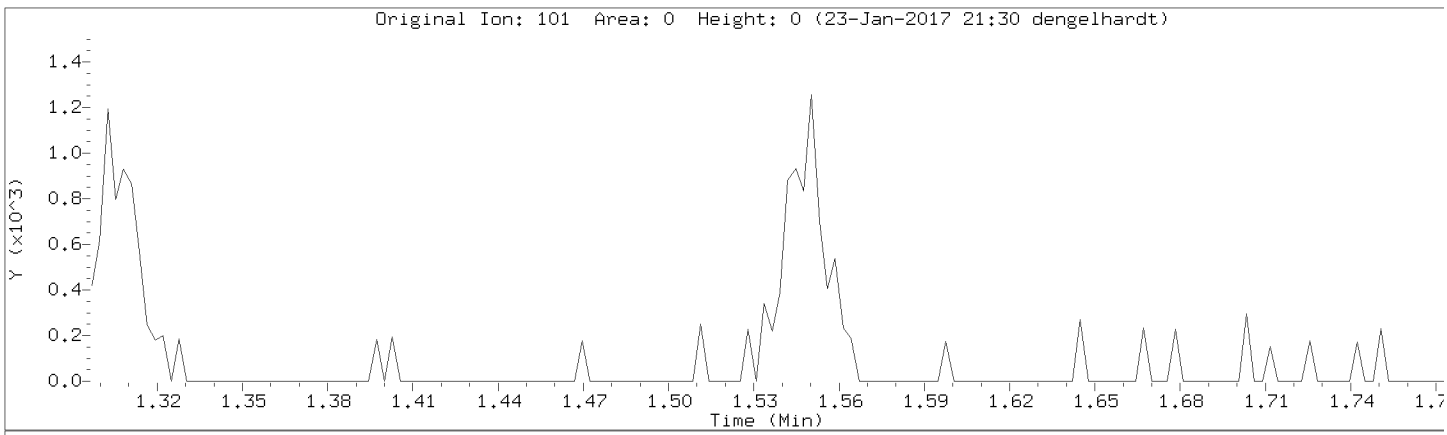


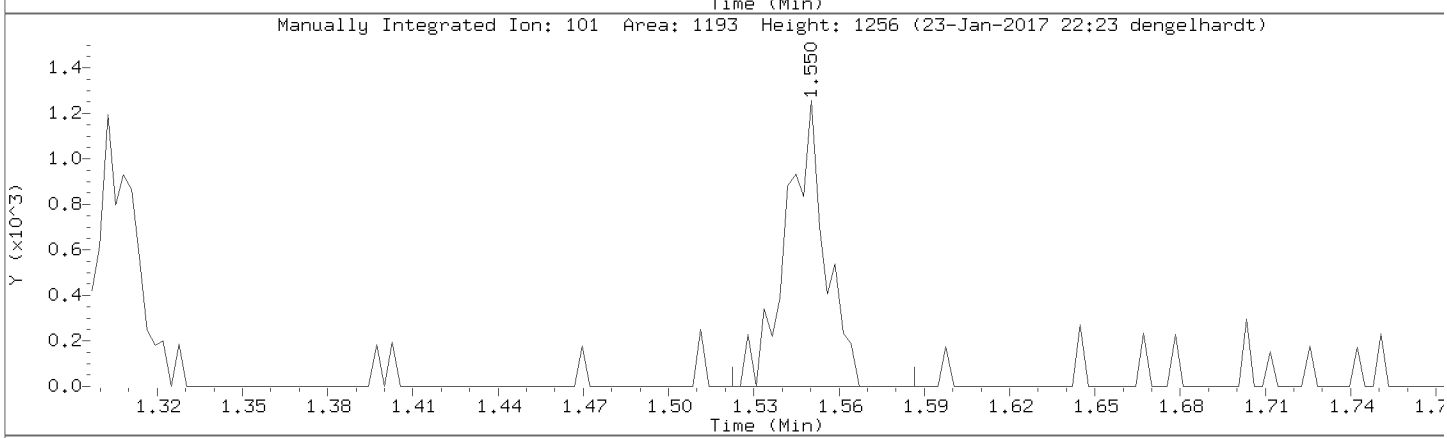


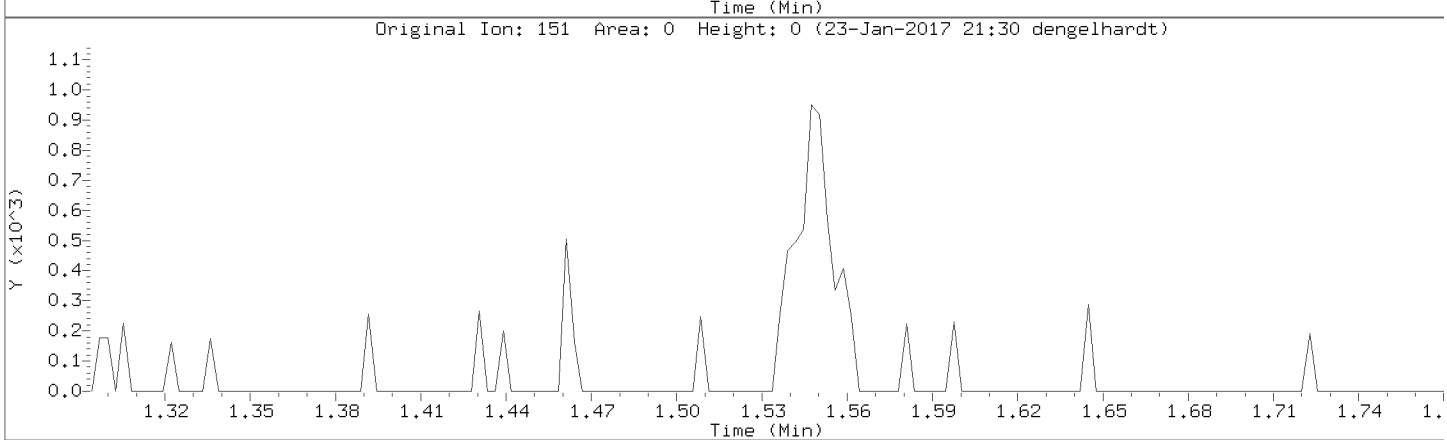


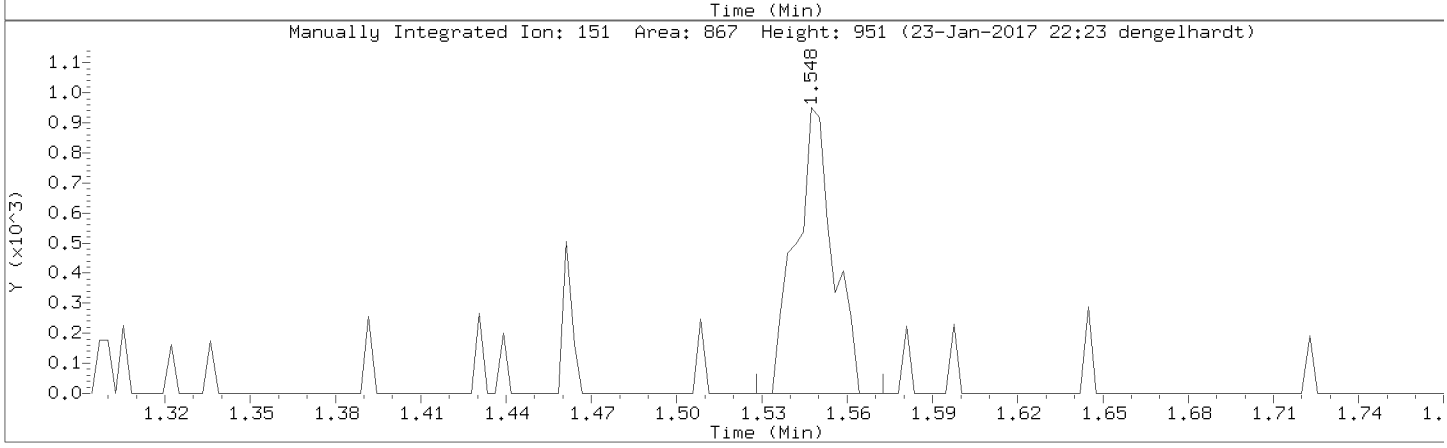
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,1,2trichlorotrifluoroethane Review Code: NI
CAS Number: 76-13-1



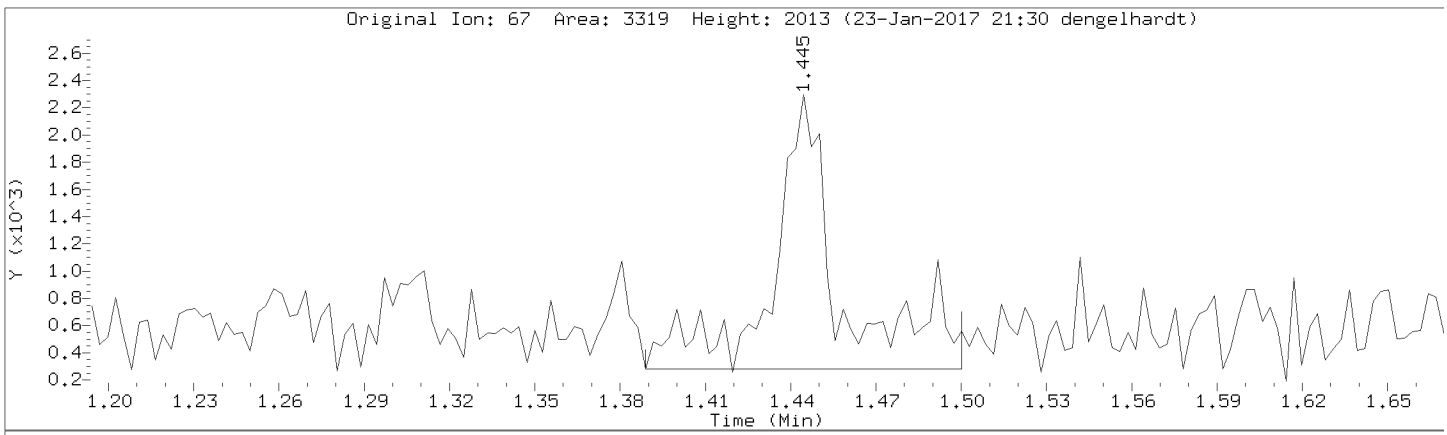


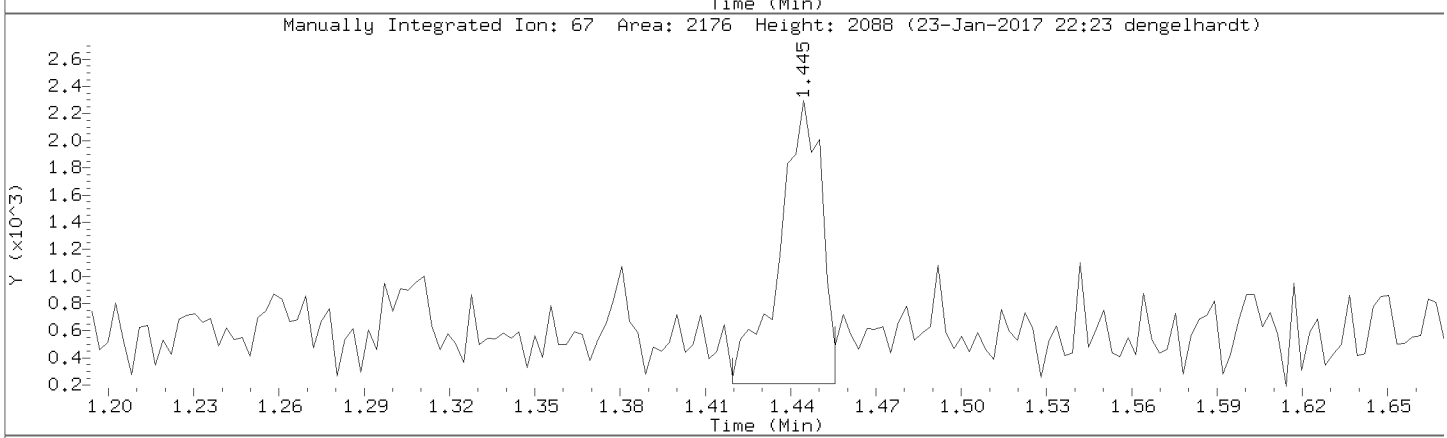


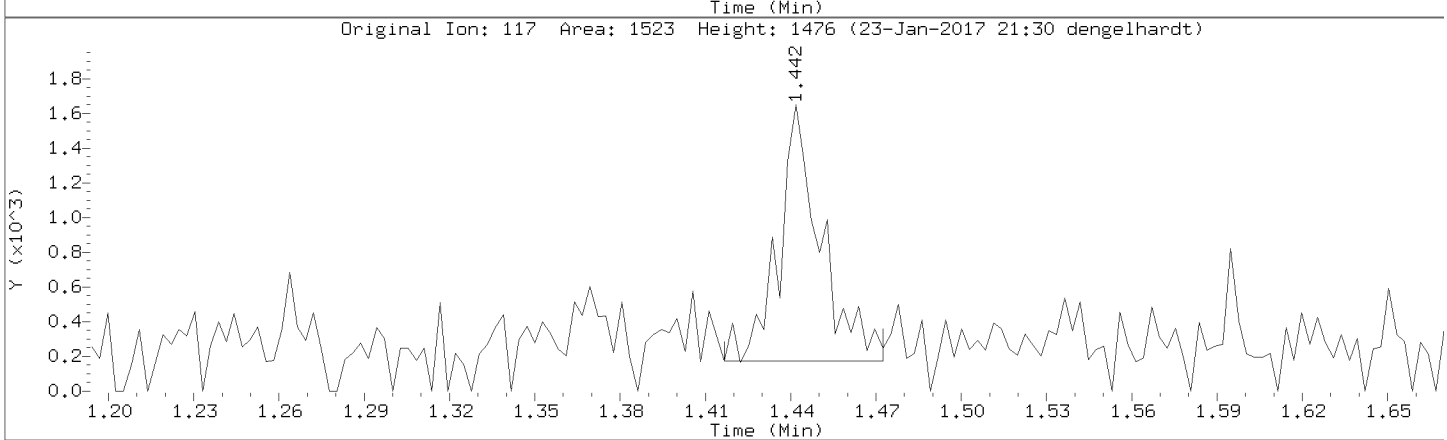


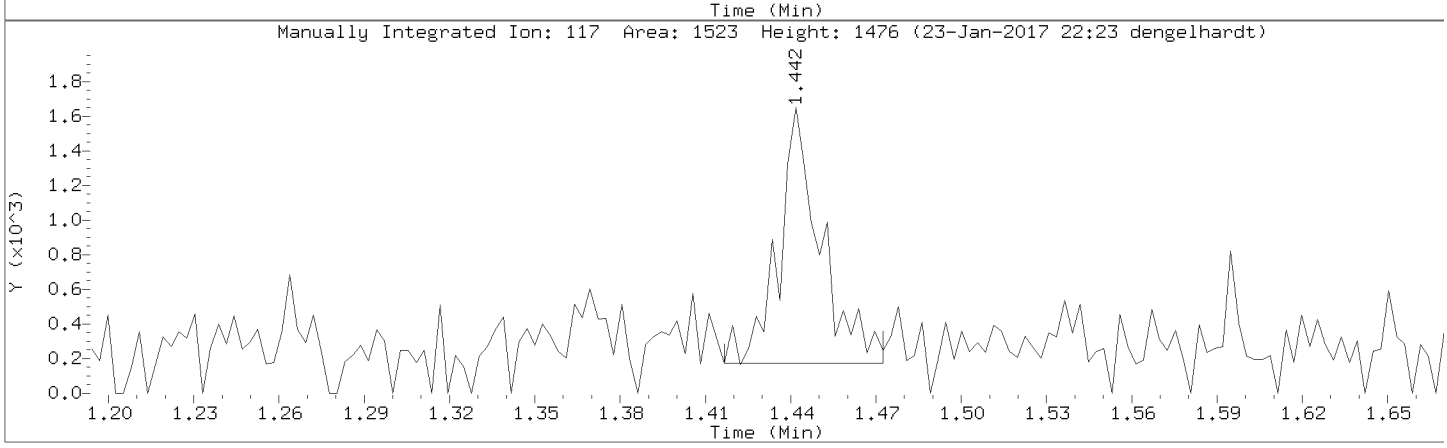
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,2-dichlorotrifluoroethane Review Code: GT
CAS Number: 354-23-4









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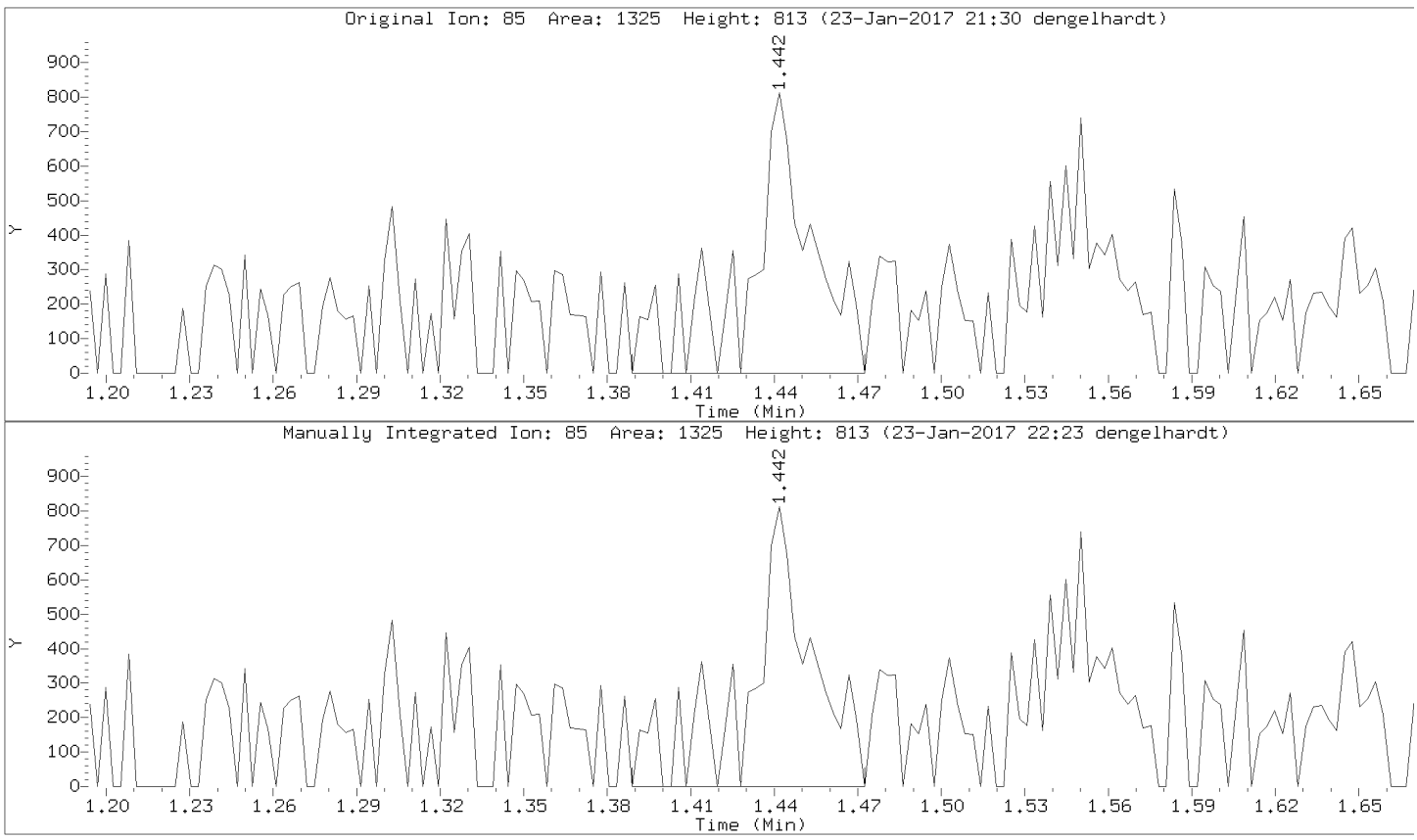
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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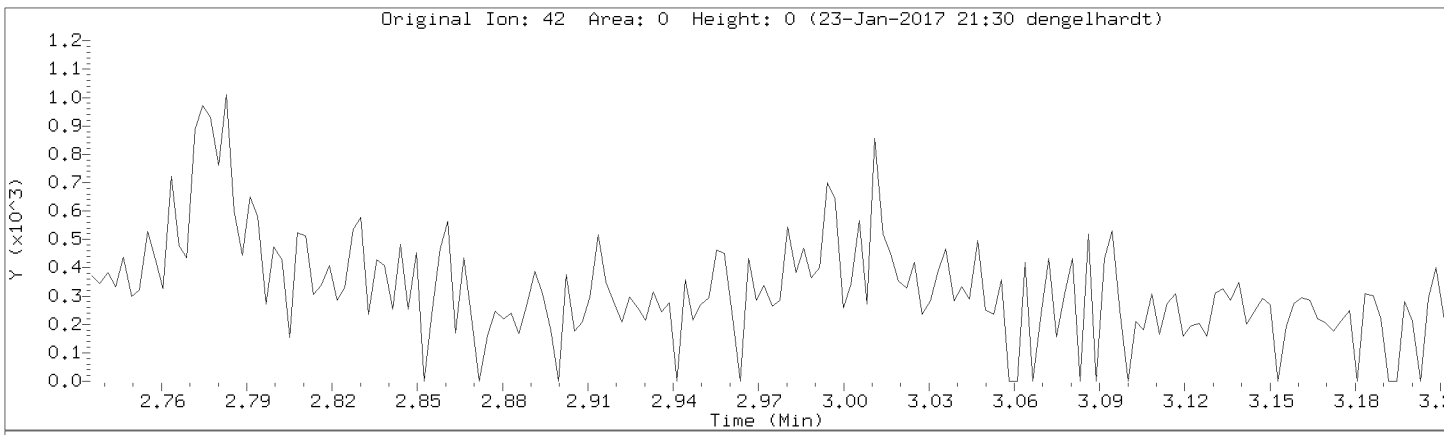
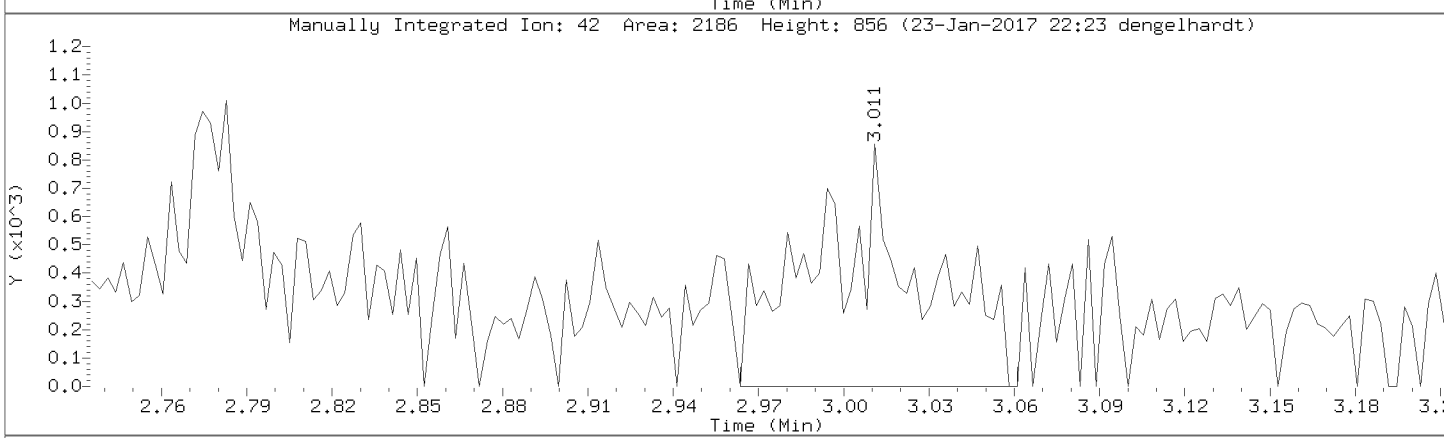
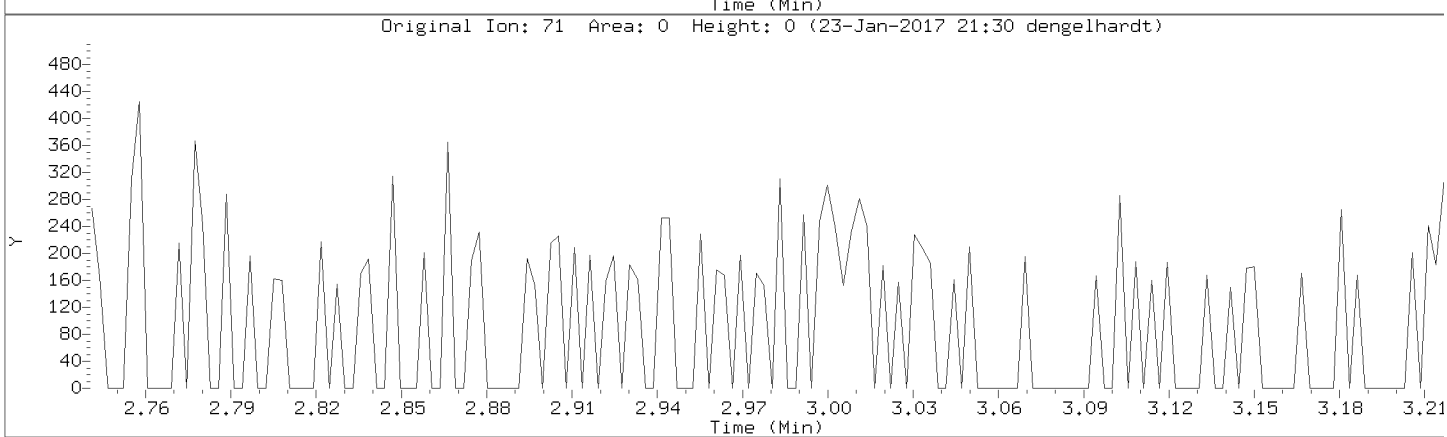
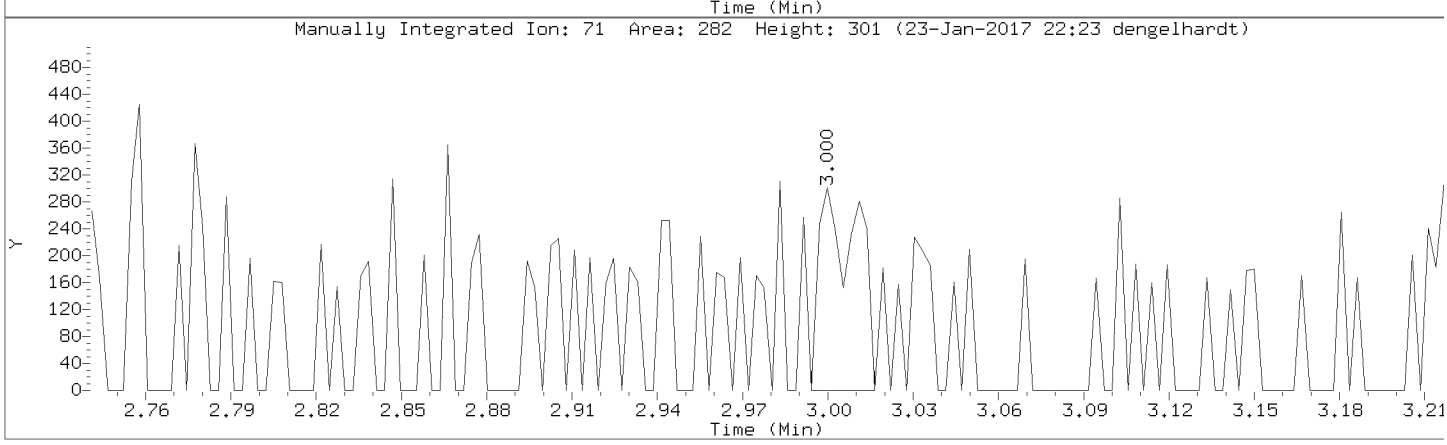
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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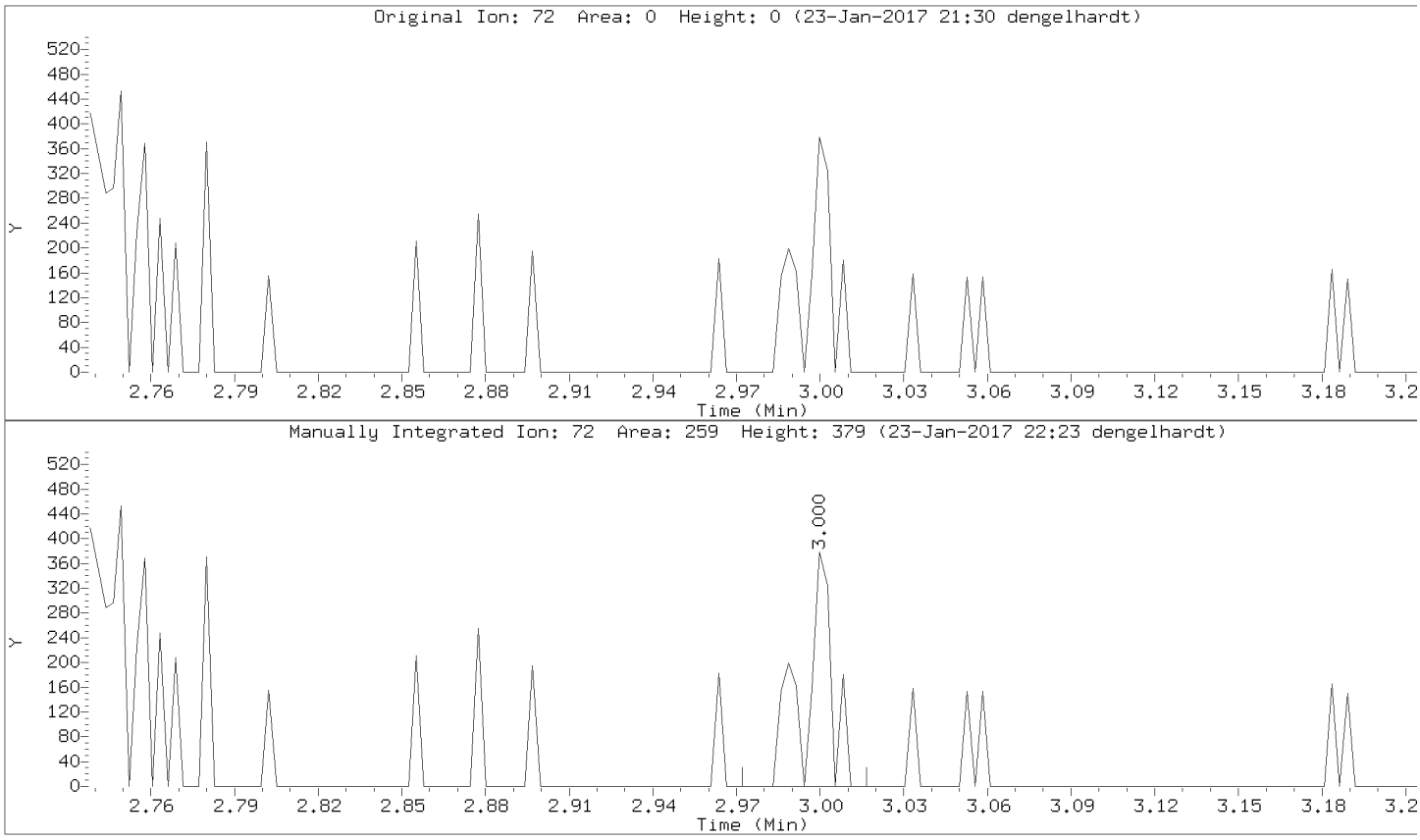
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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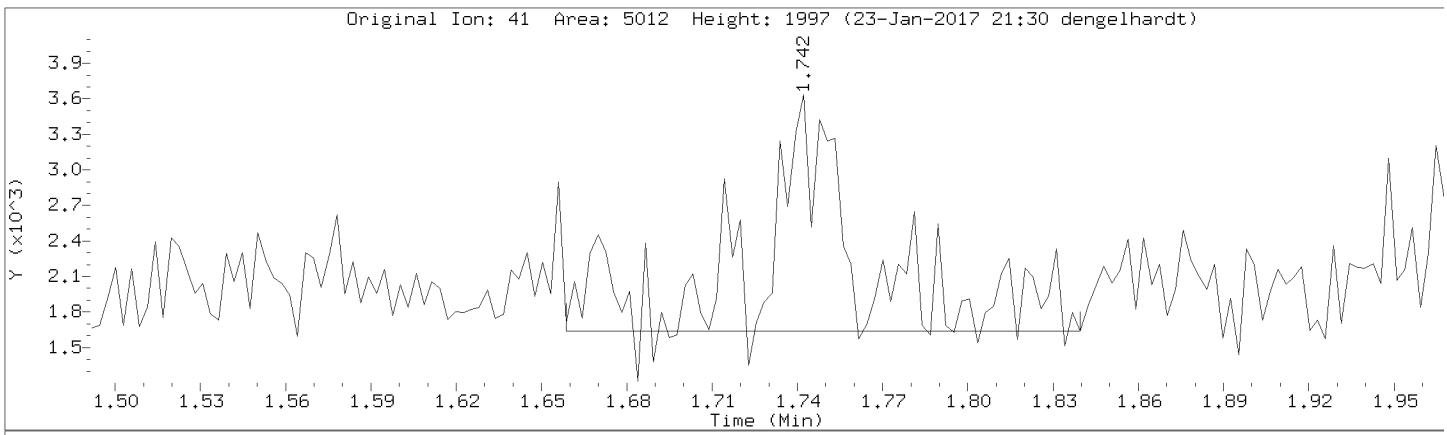
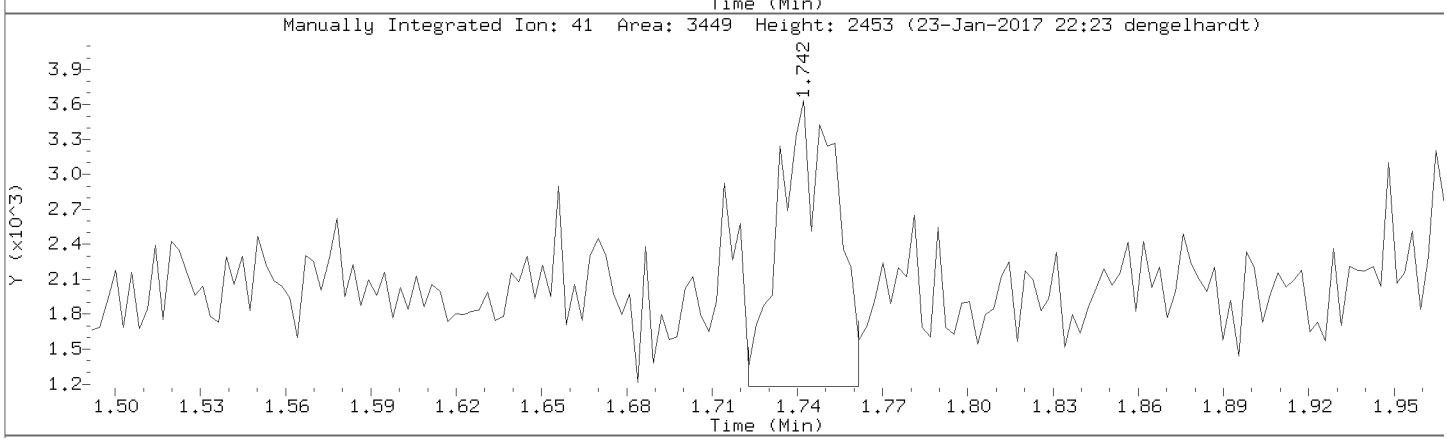
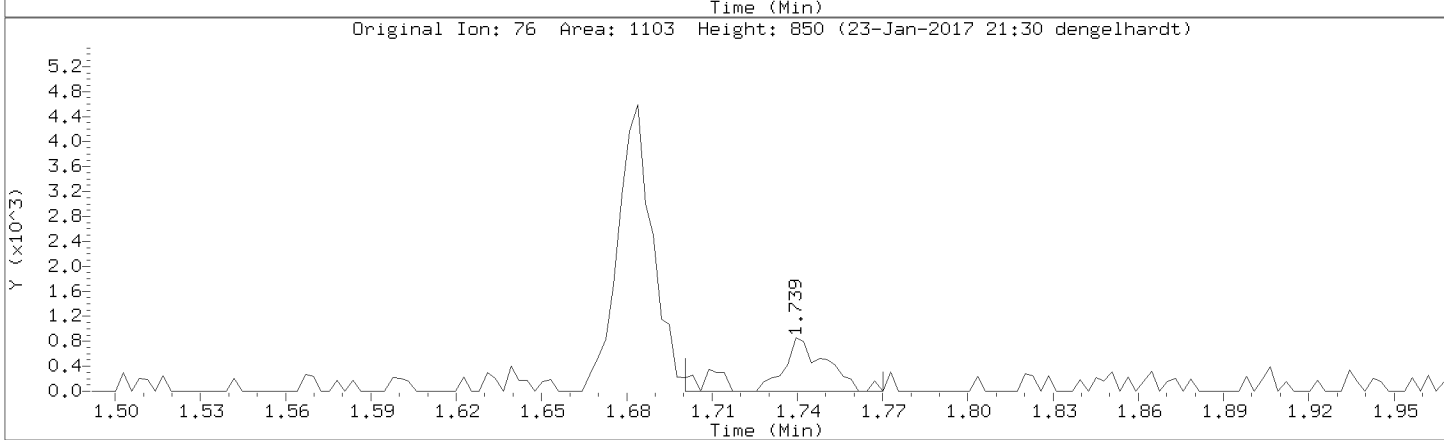
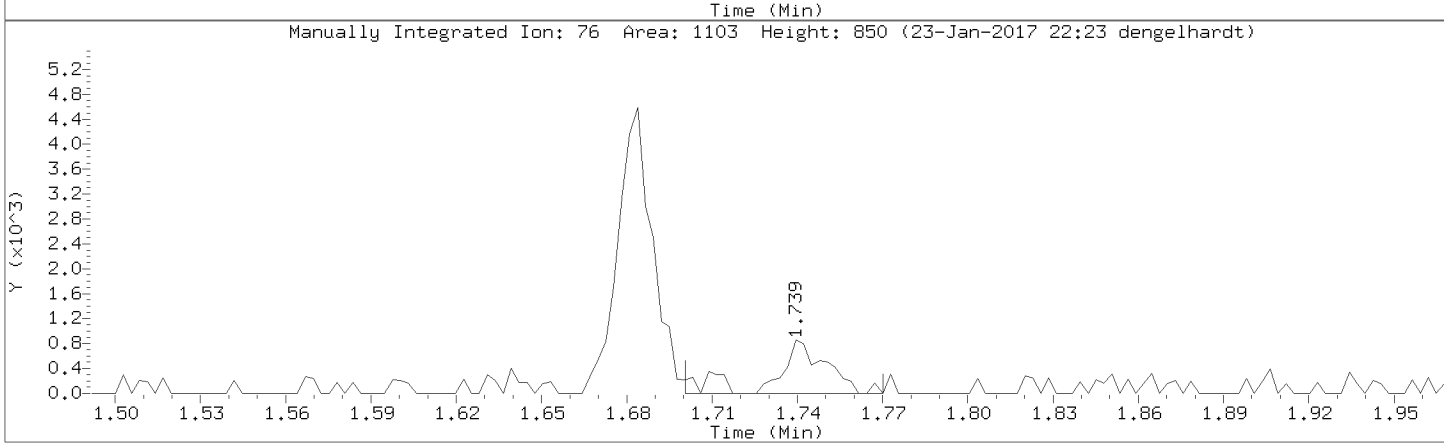
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: allyl chloride Review Code: LT
CAS Number: 107-05-1









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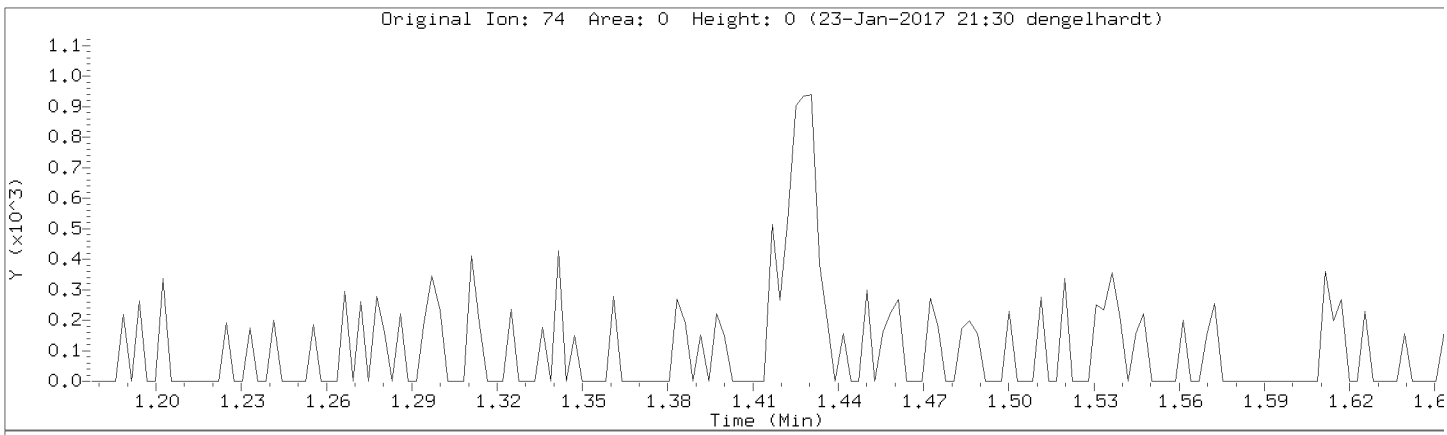
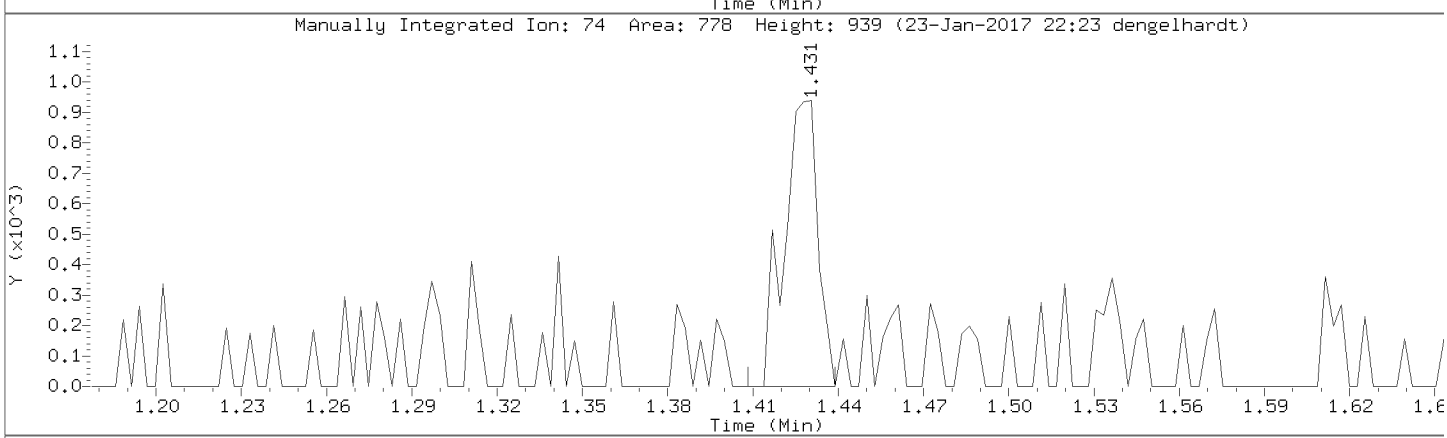
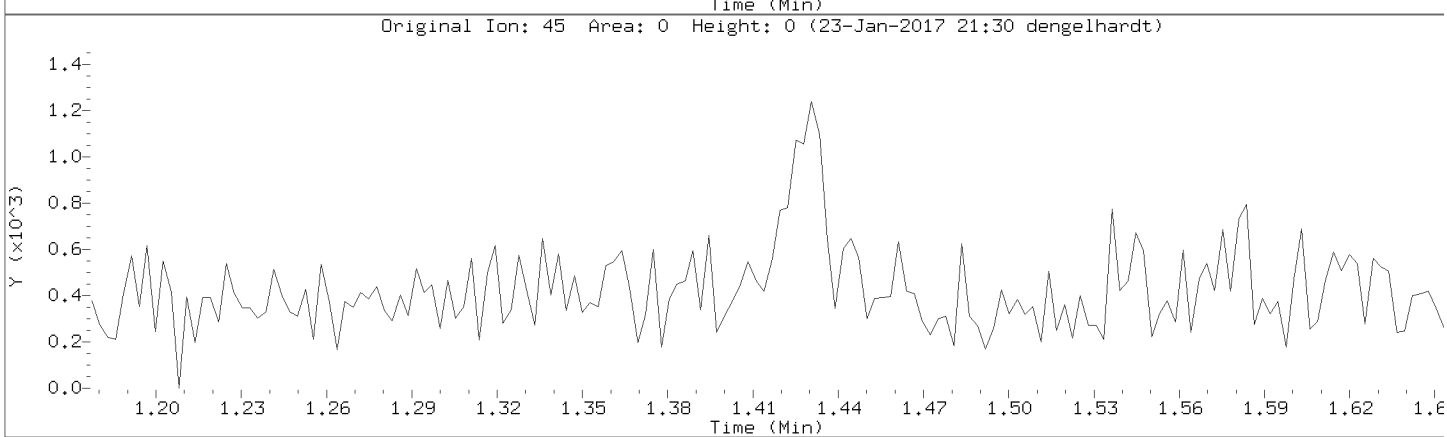
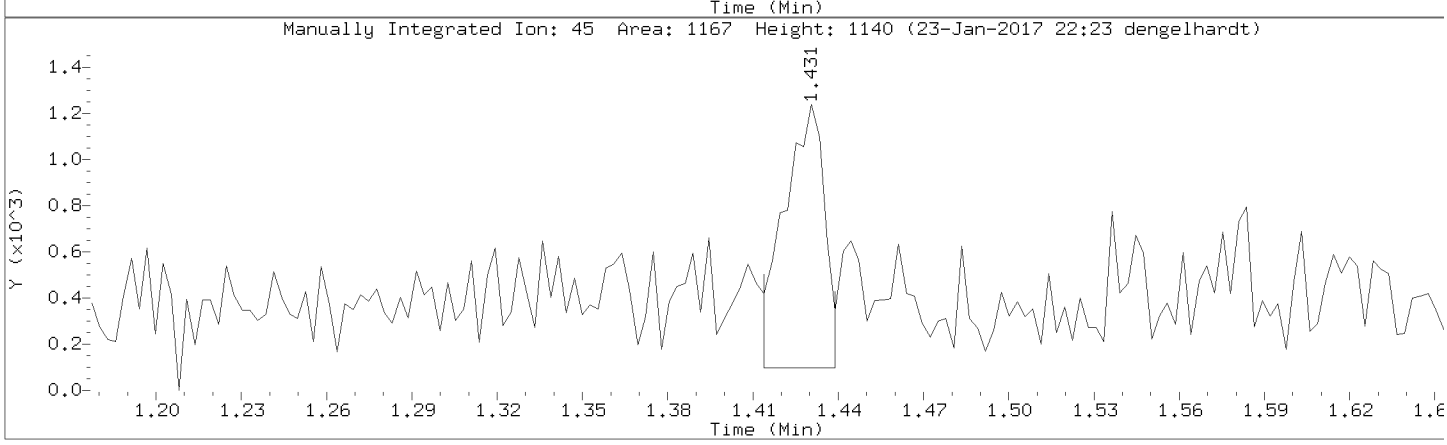
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Diethyl ether Review Code: NI
CAS Number: 60-29-7









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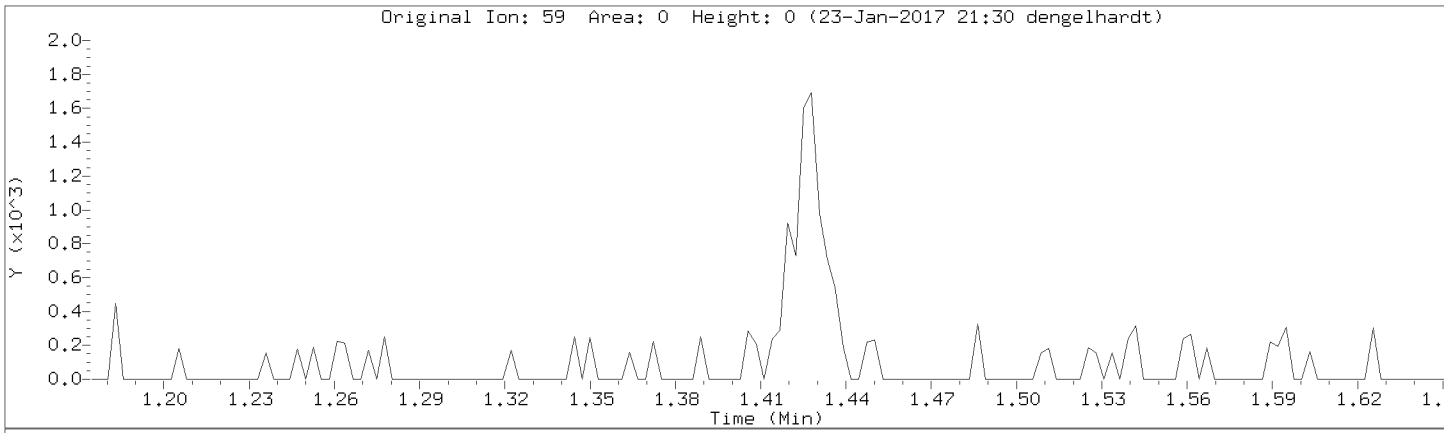
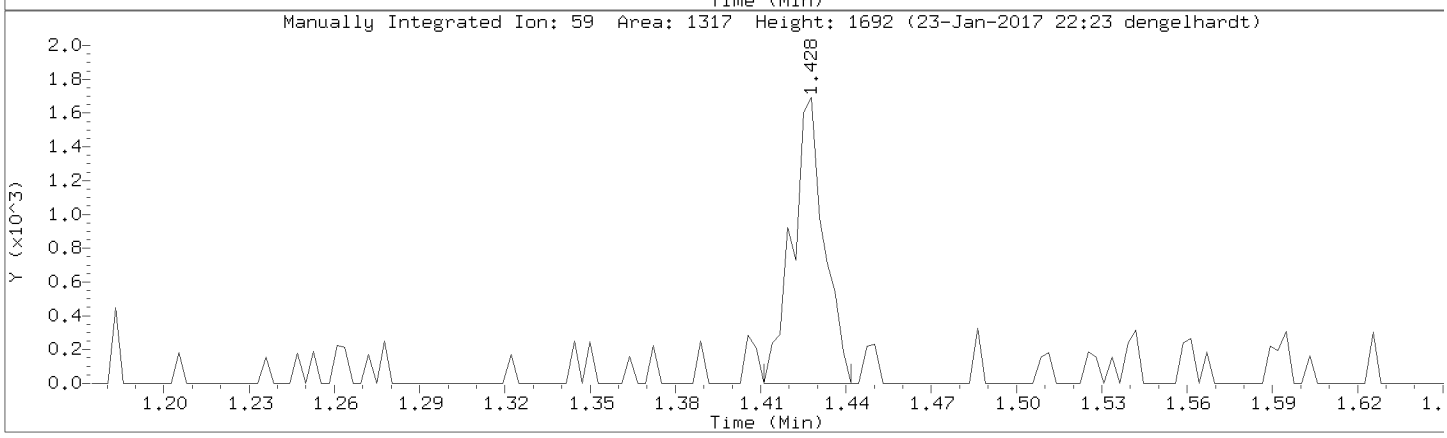
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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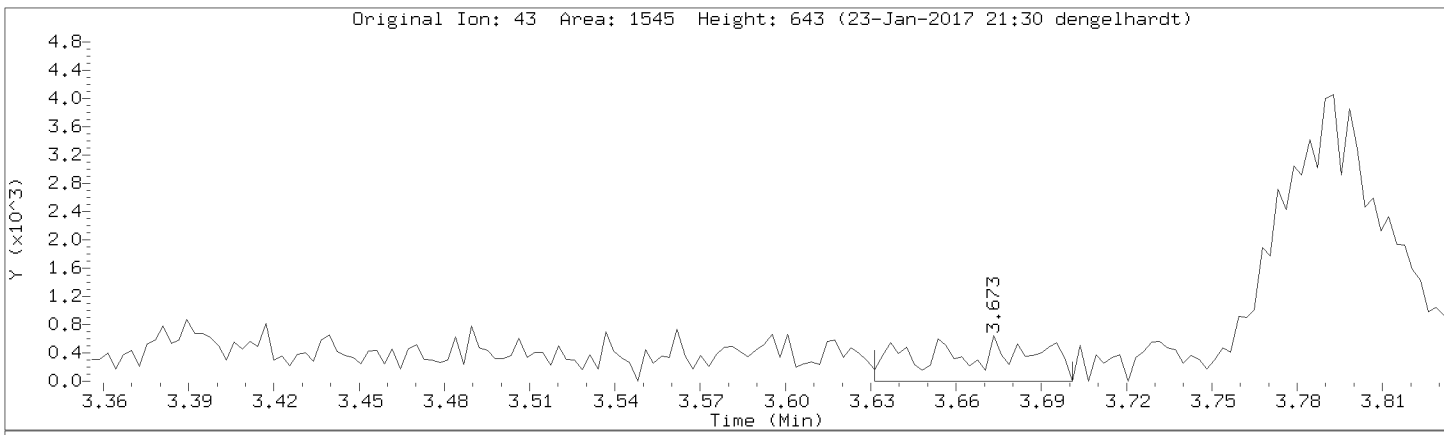
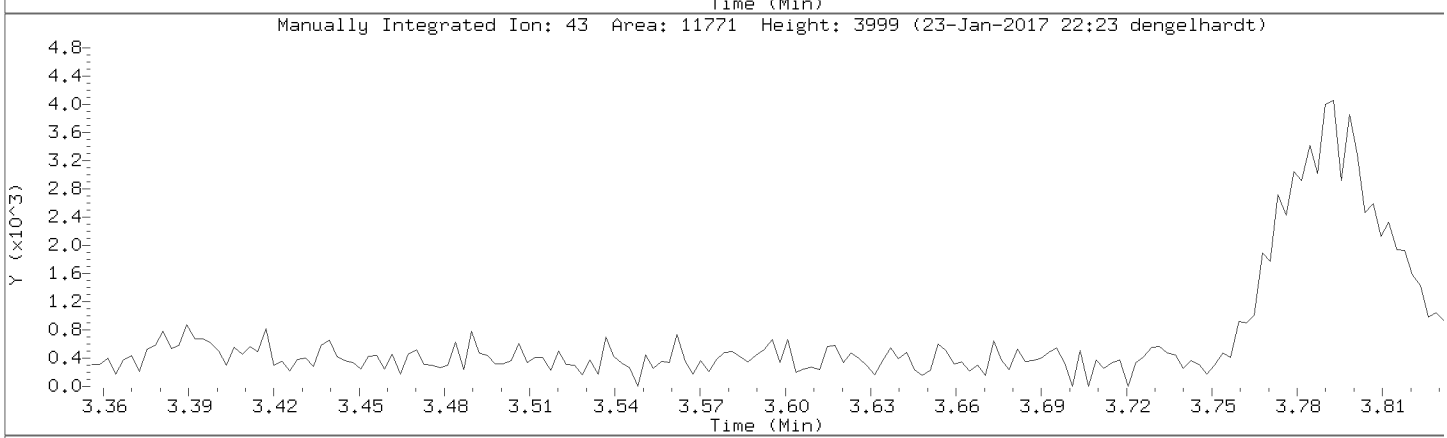
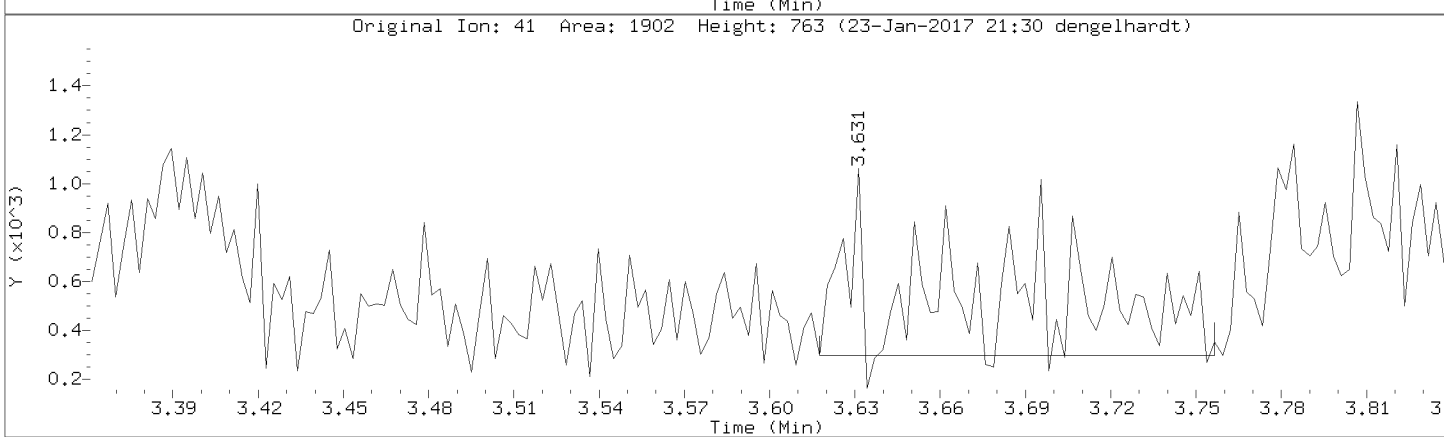
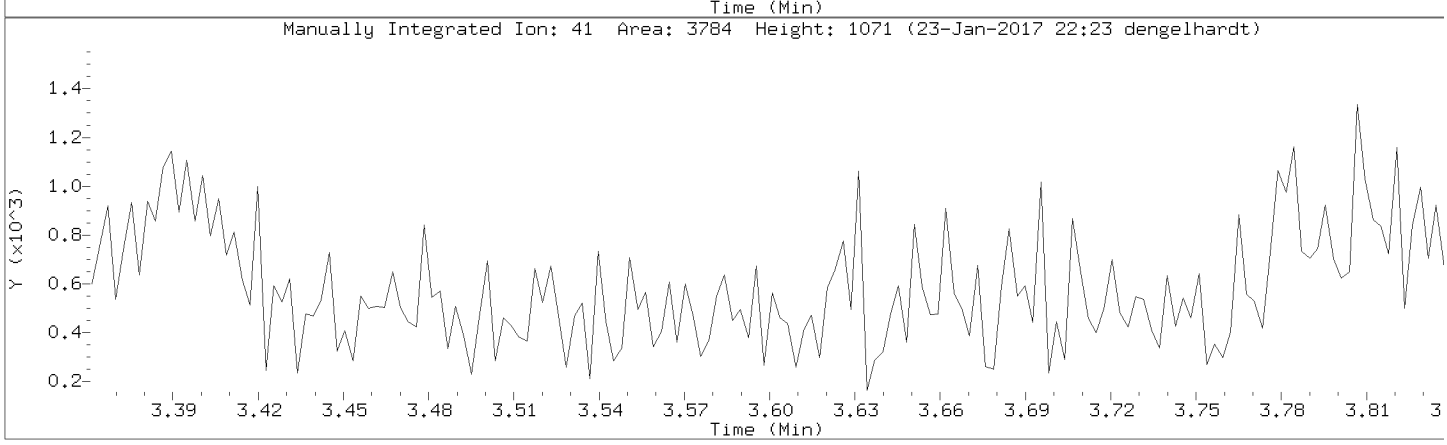
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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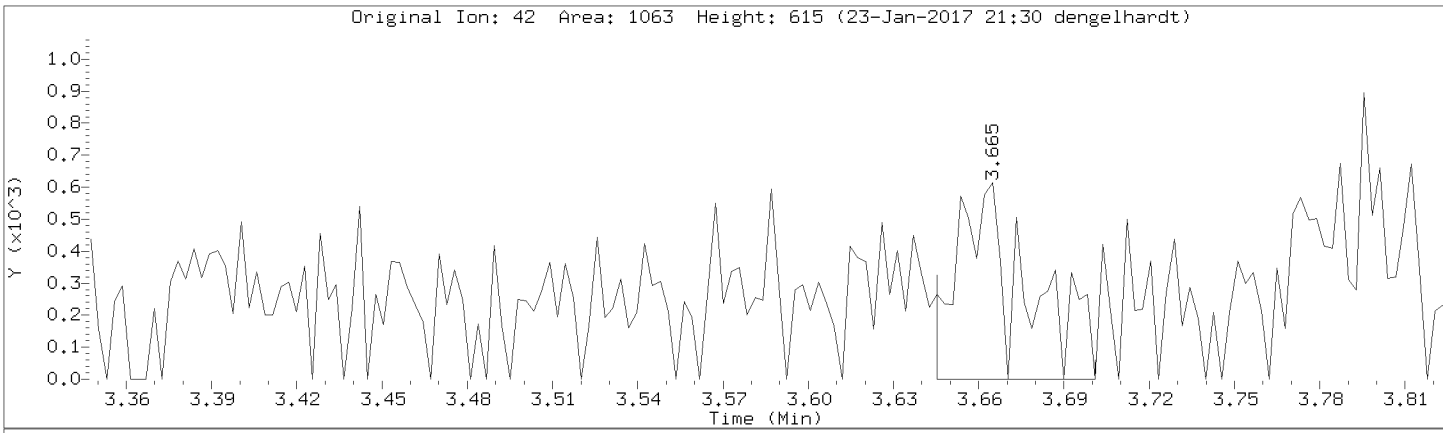
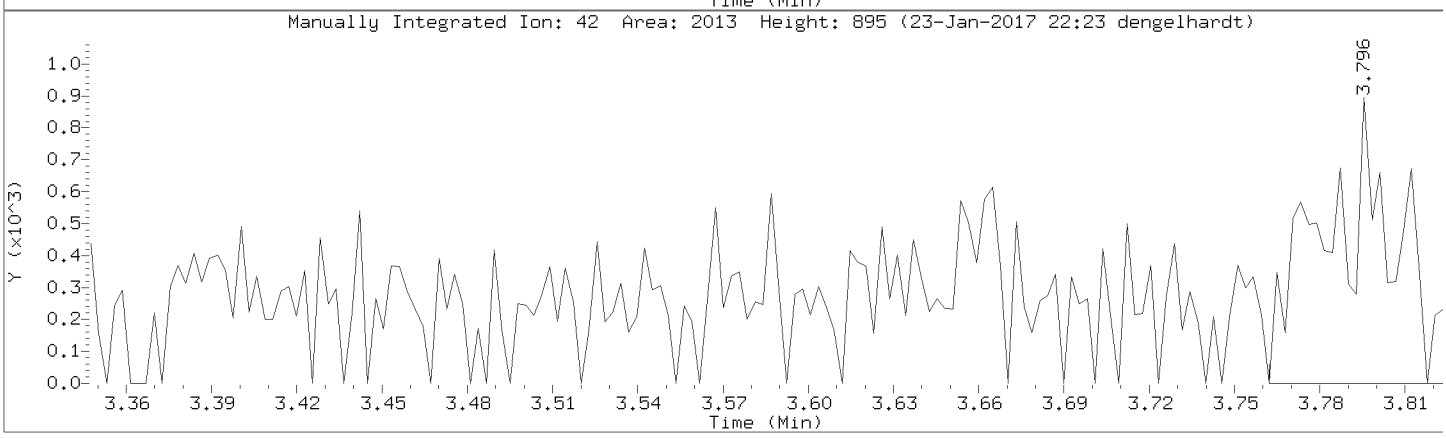
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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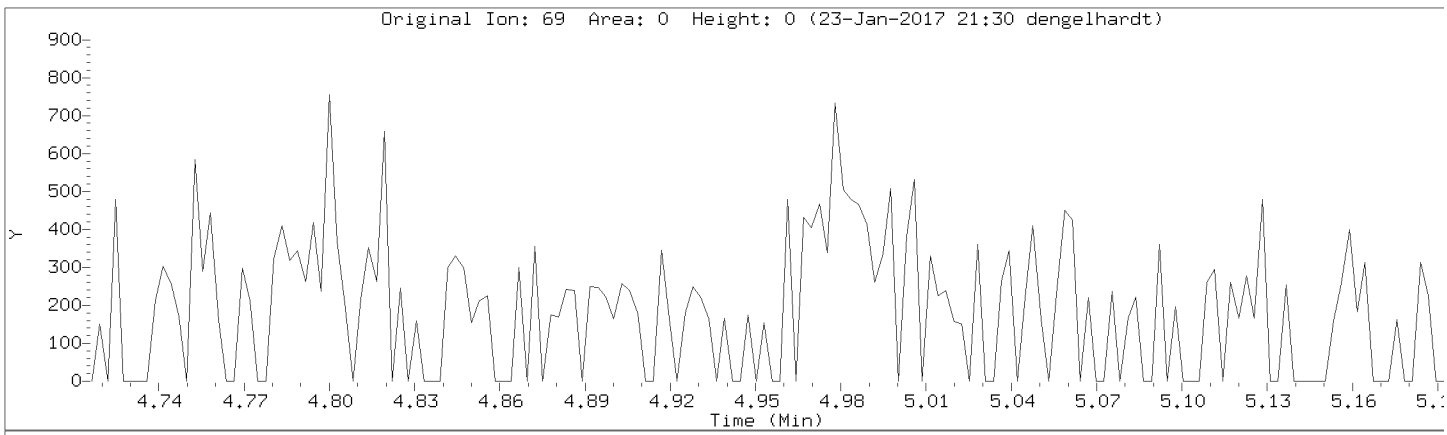
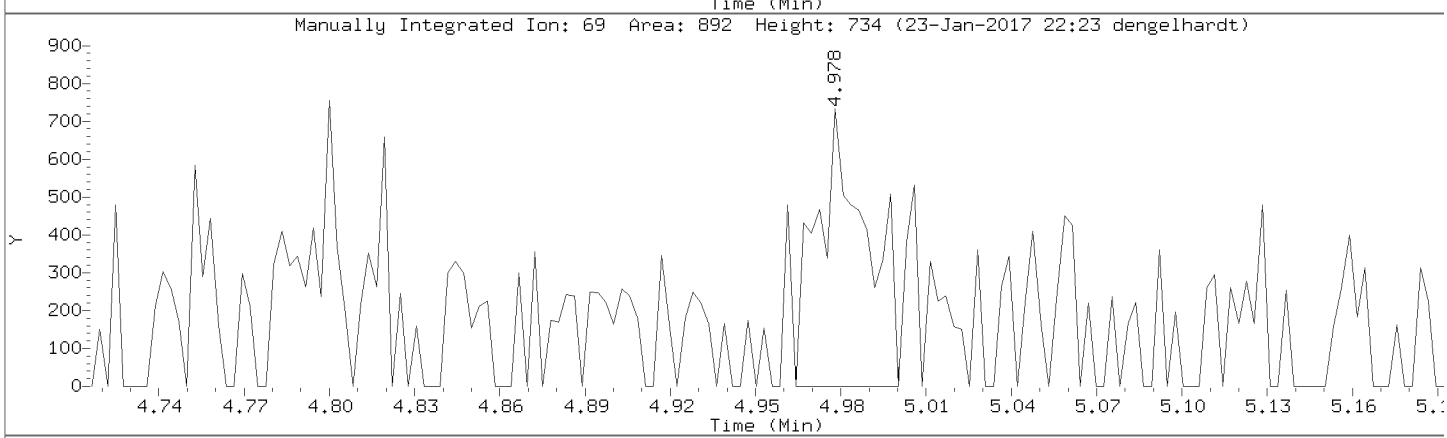
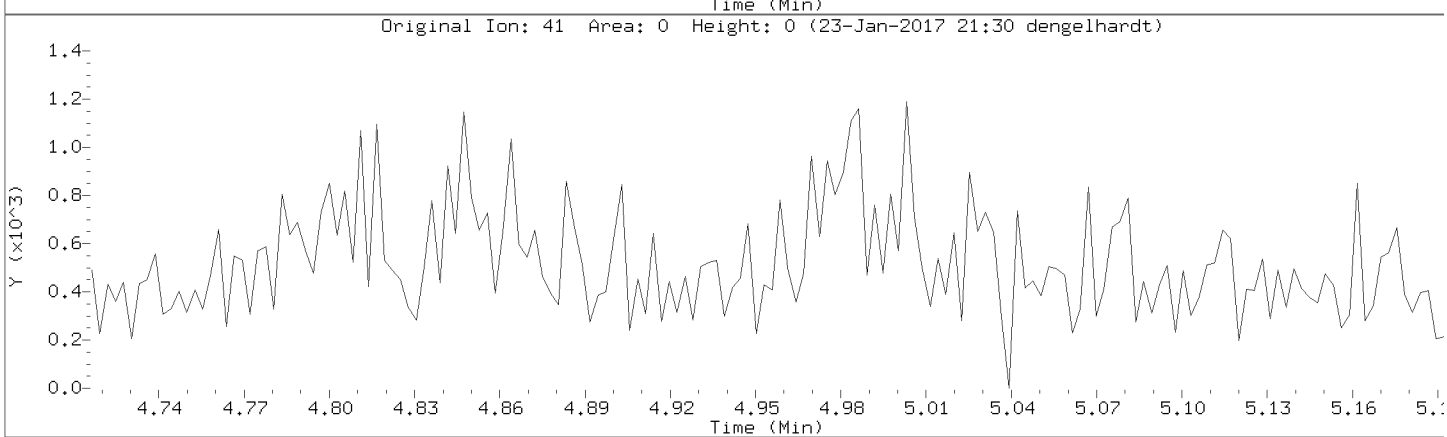
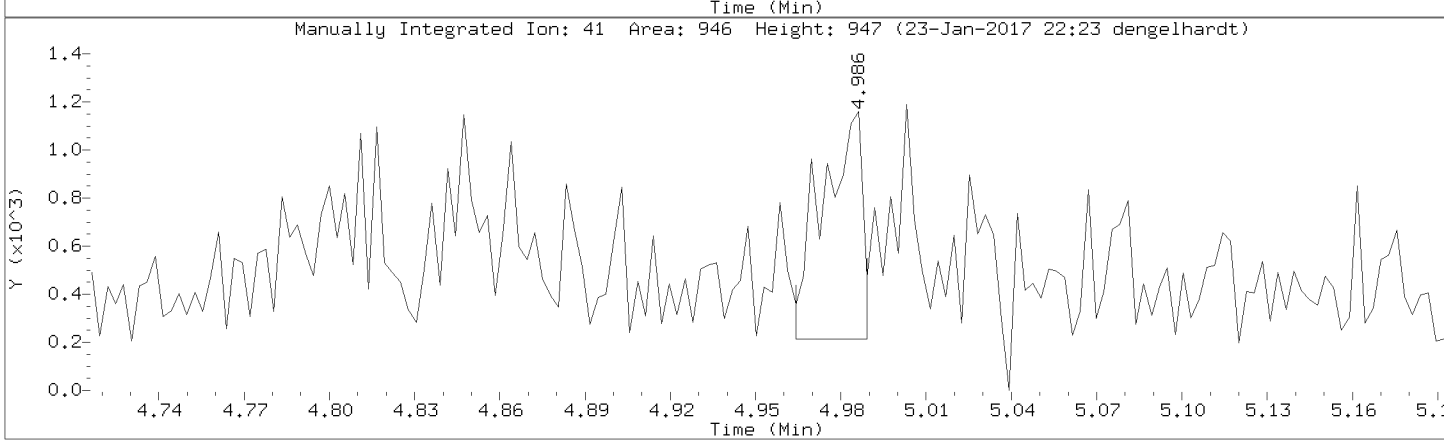
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6









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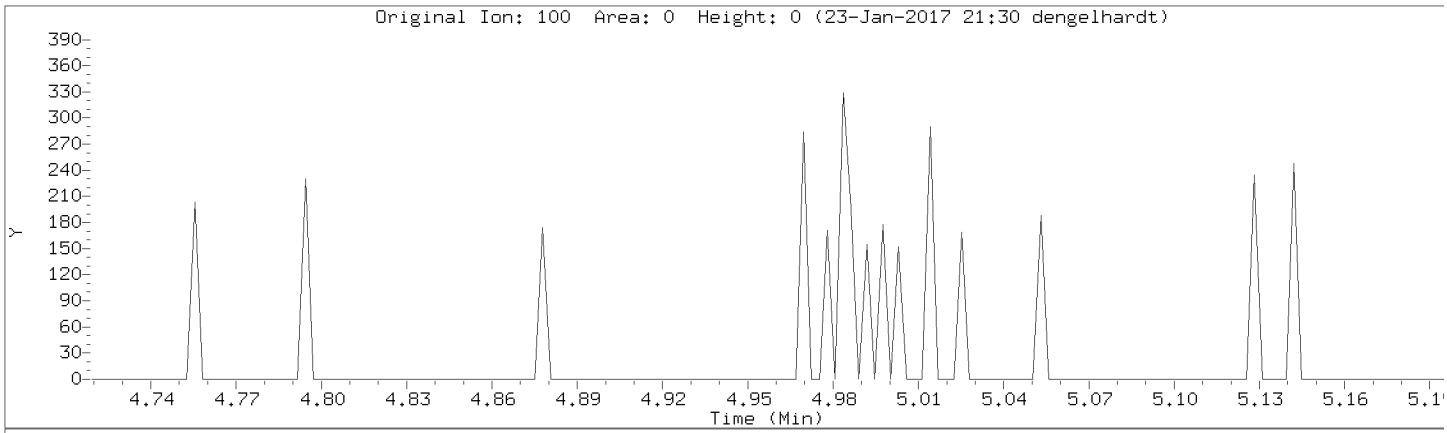
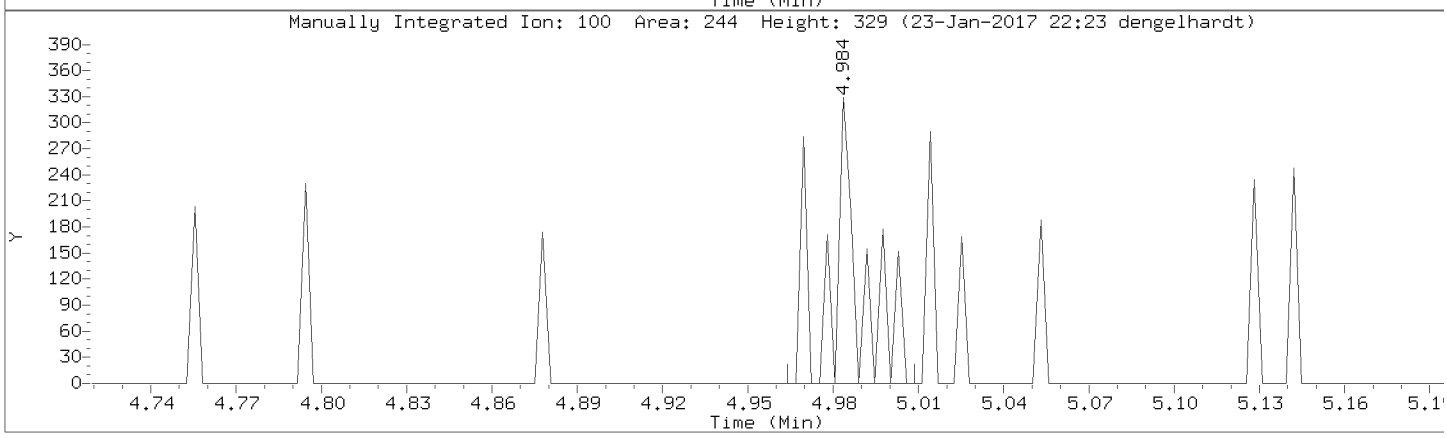
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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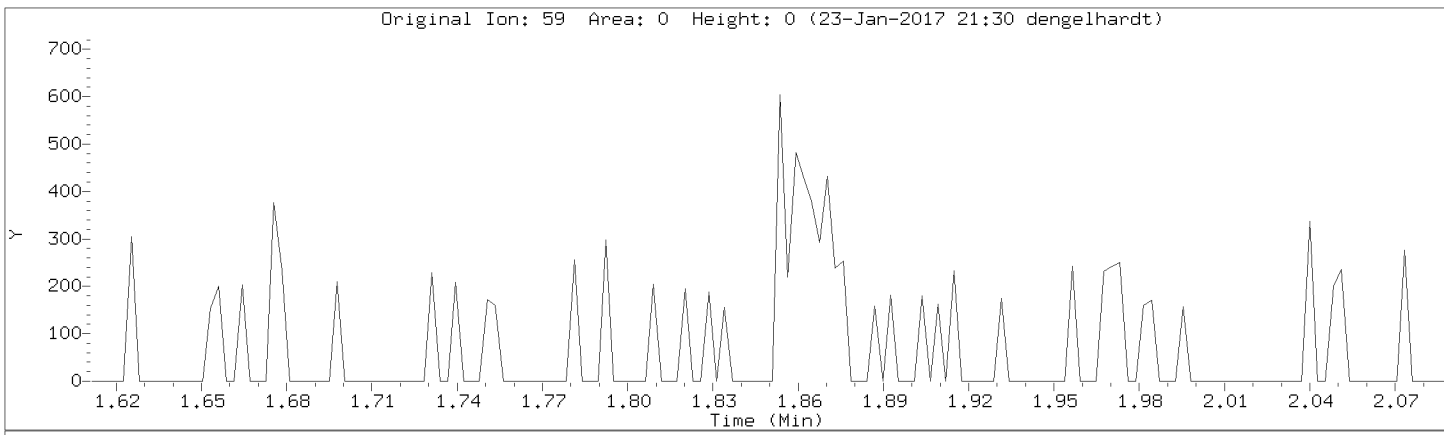
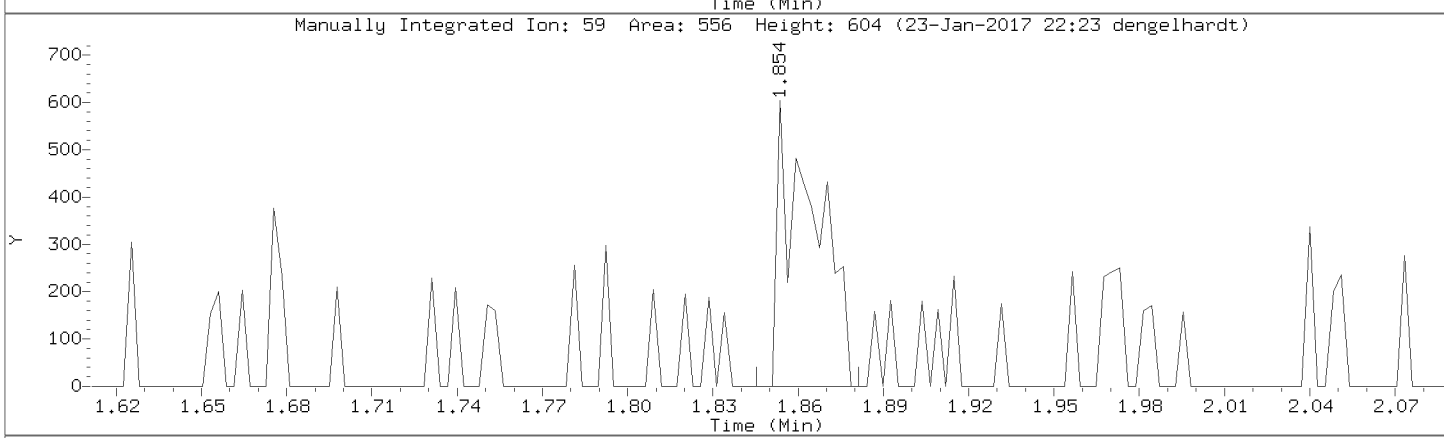
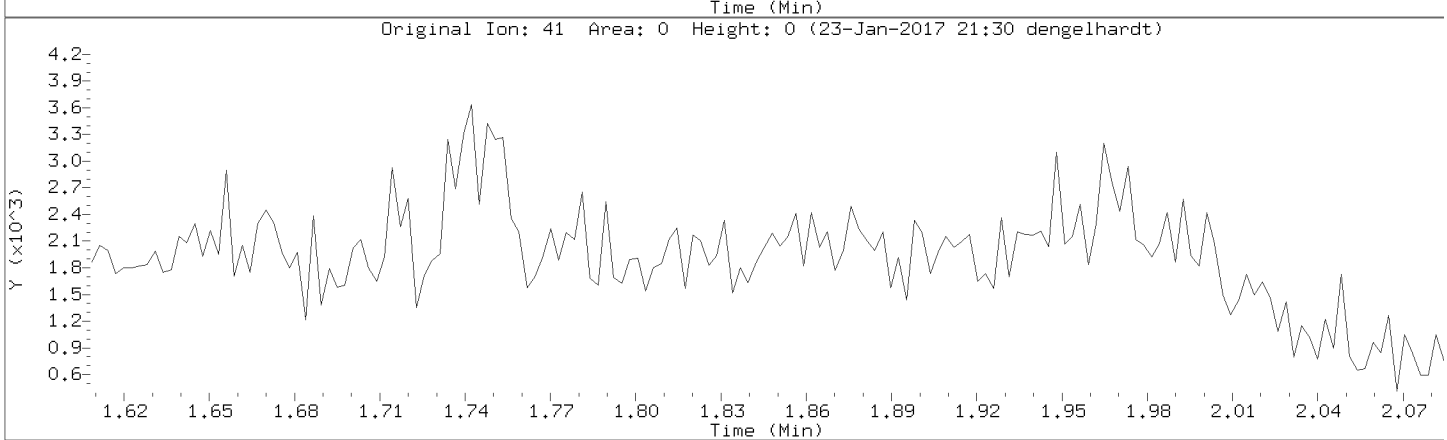
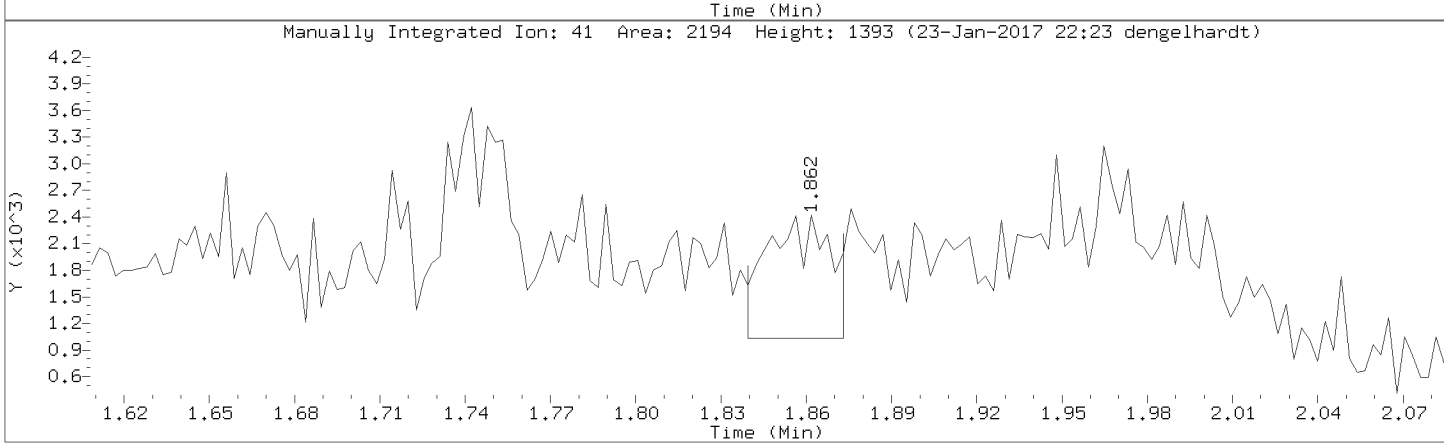
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: tert-Butyl Alcohol Review Code: LT
CAS Number: 75-65-0









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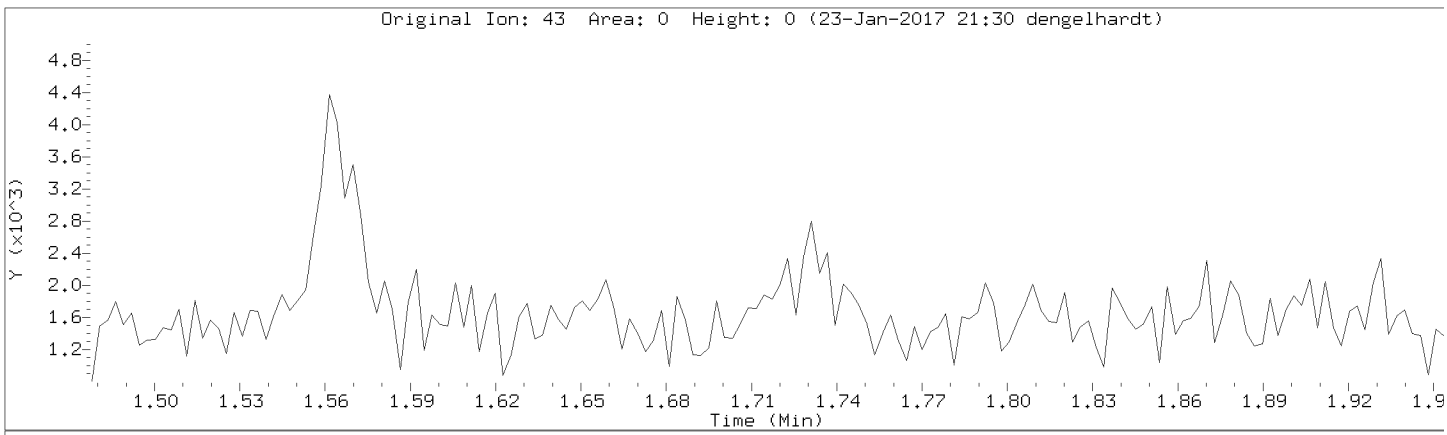
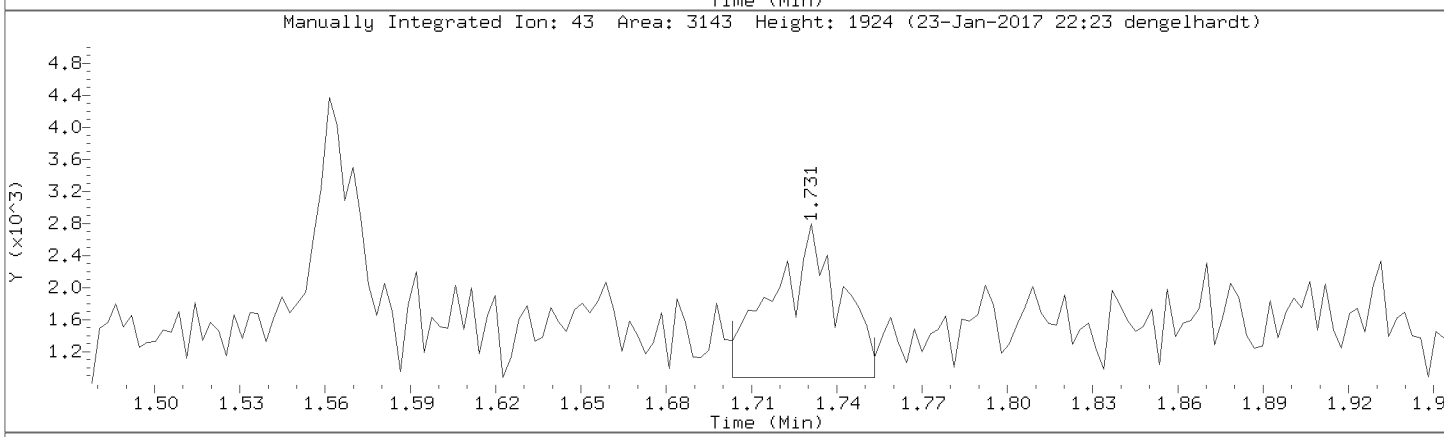
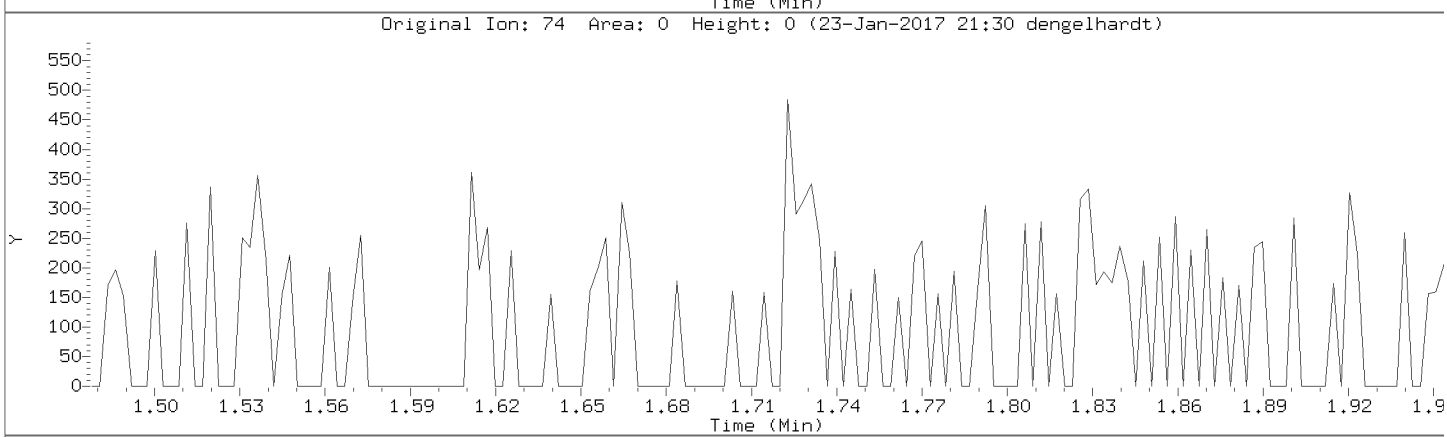
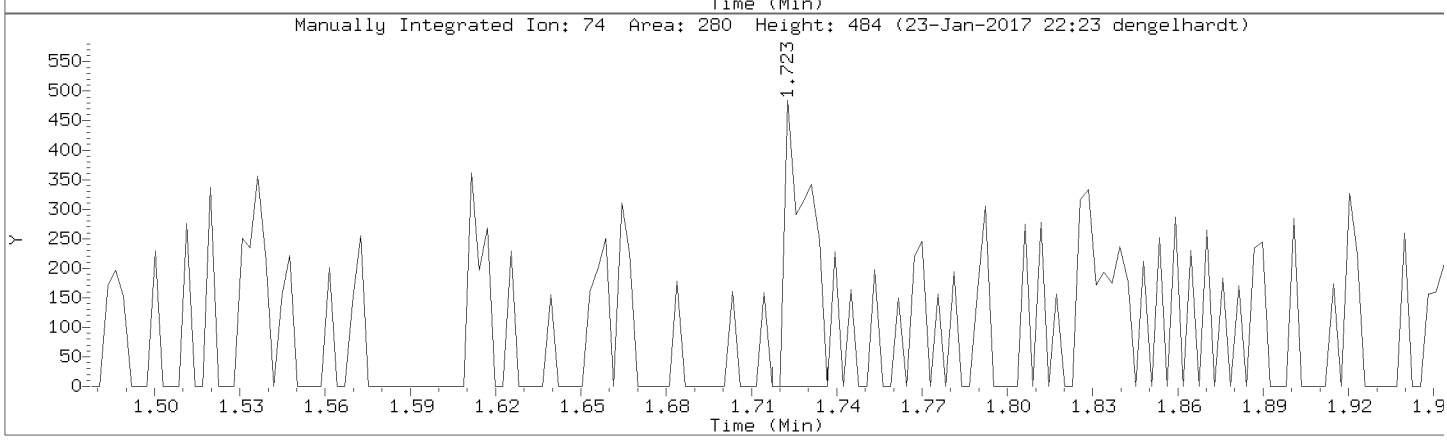
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9









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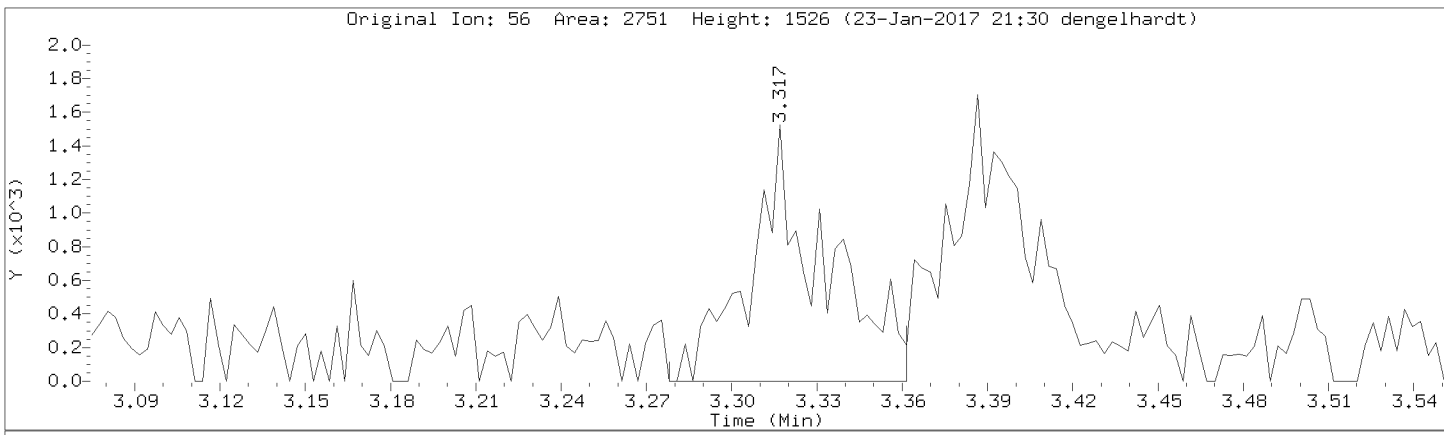
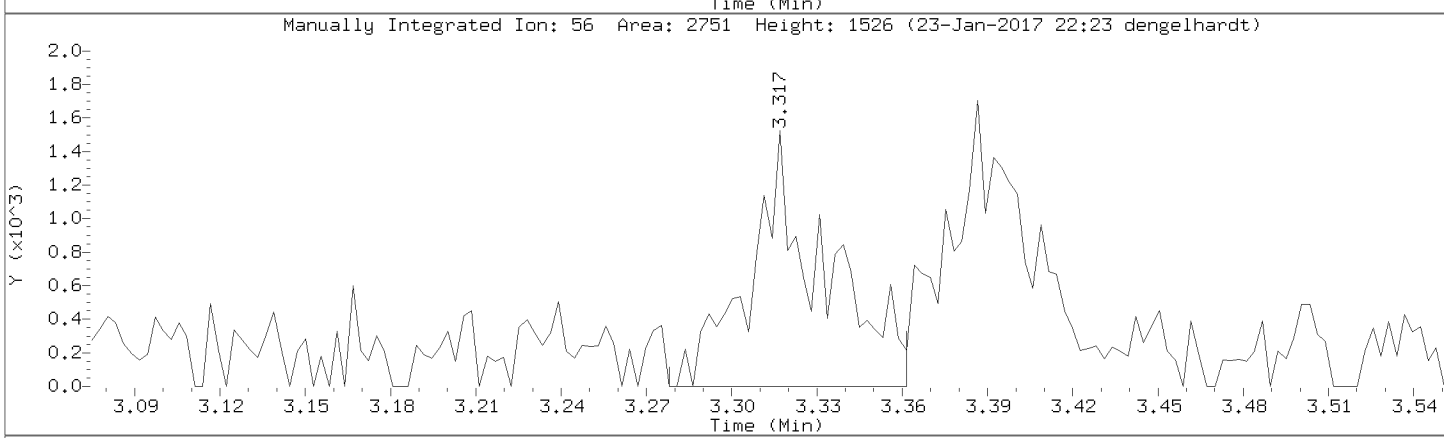
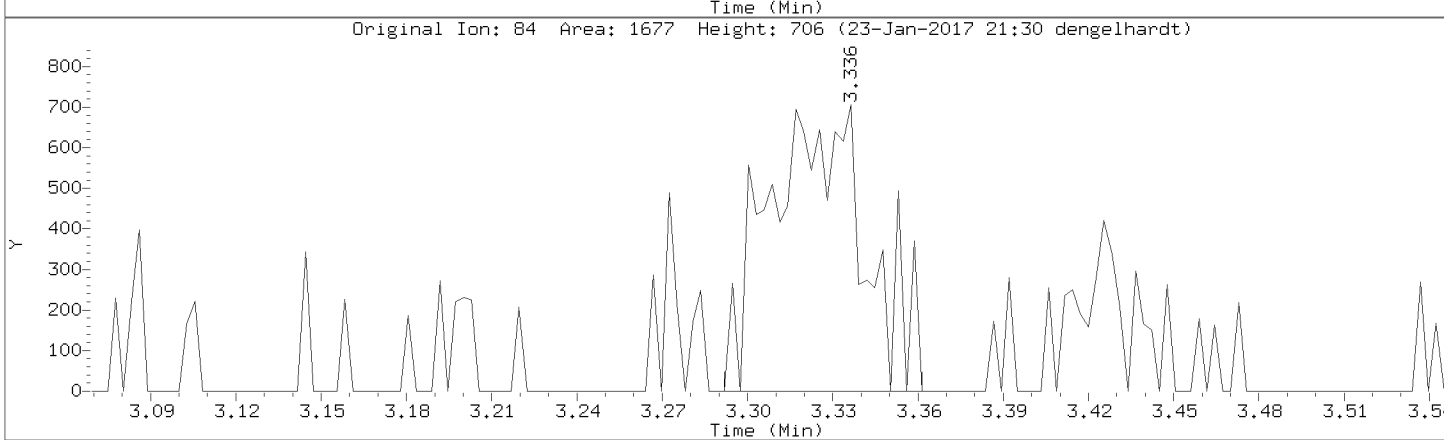
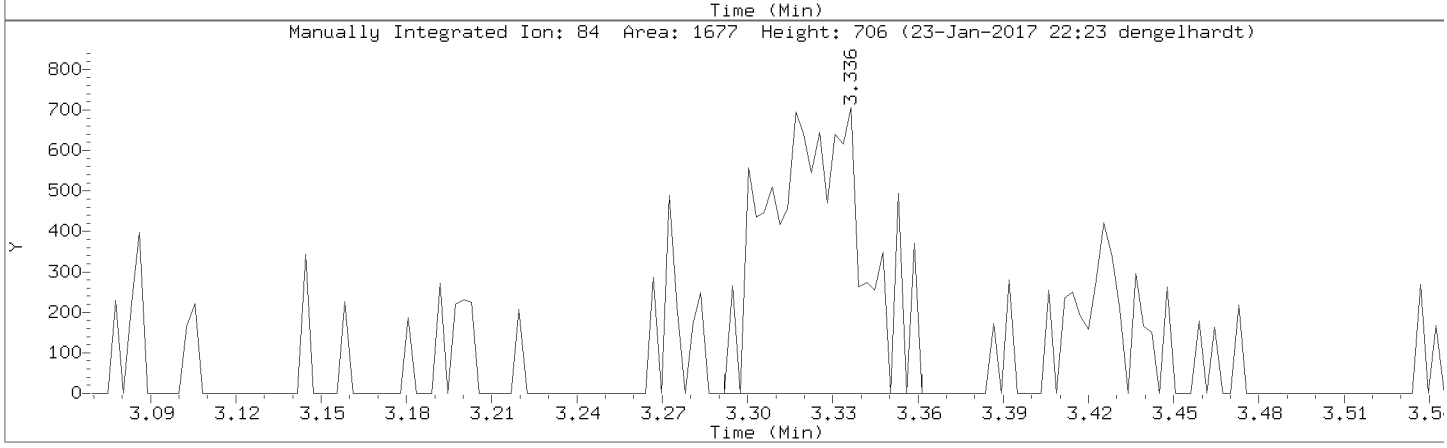
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: cyclohexane Review Code: WP
CAS Number: 110-82-7









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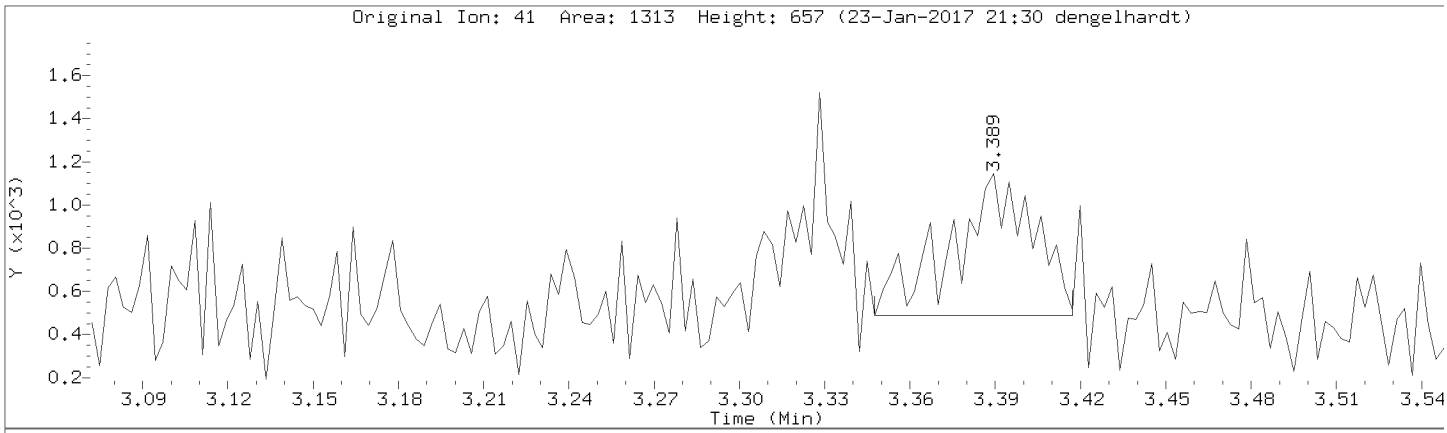
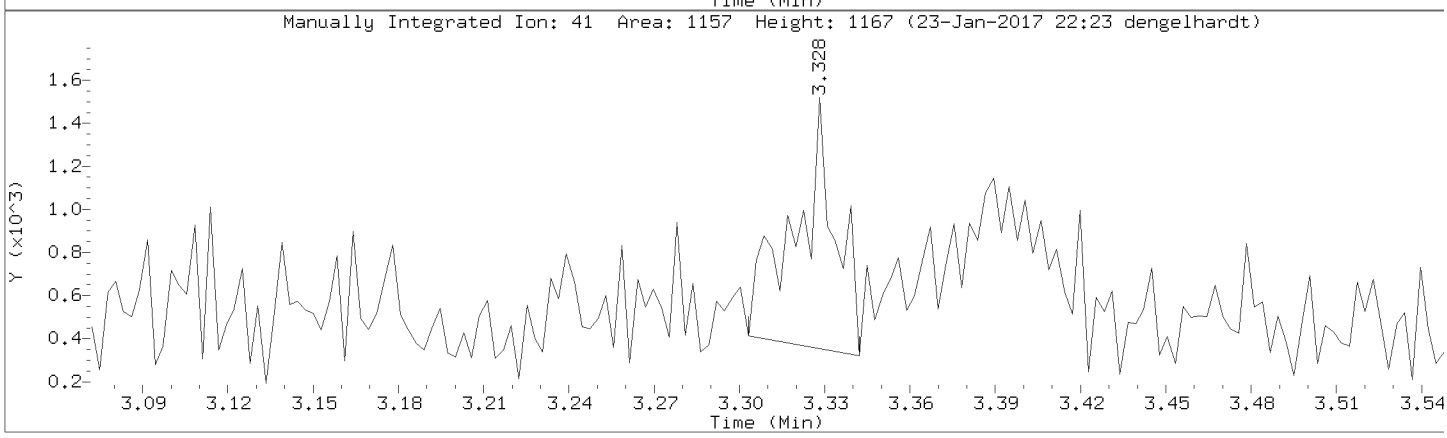
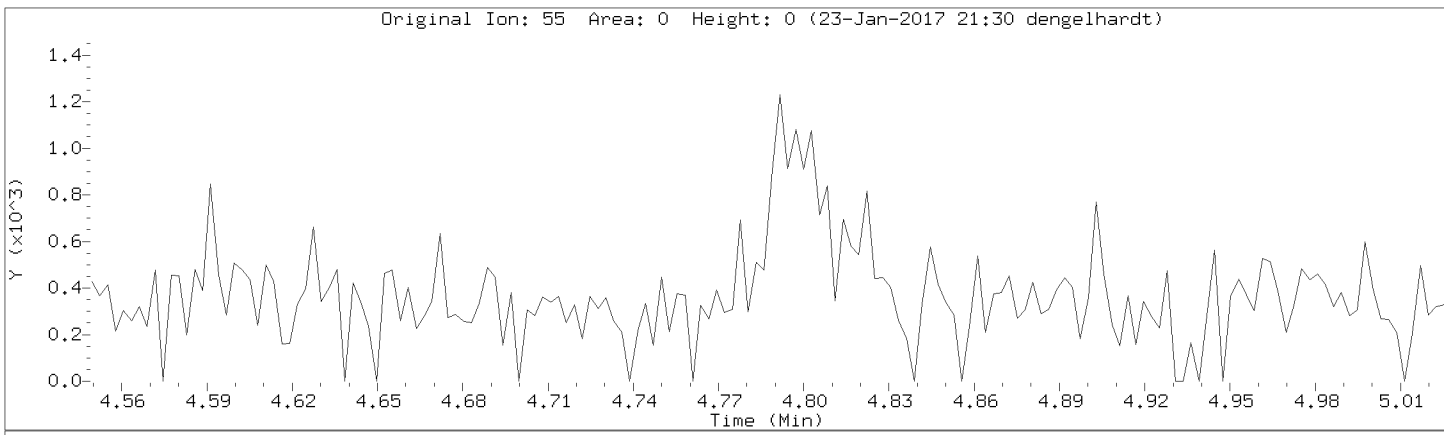
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

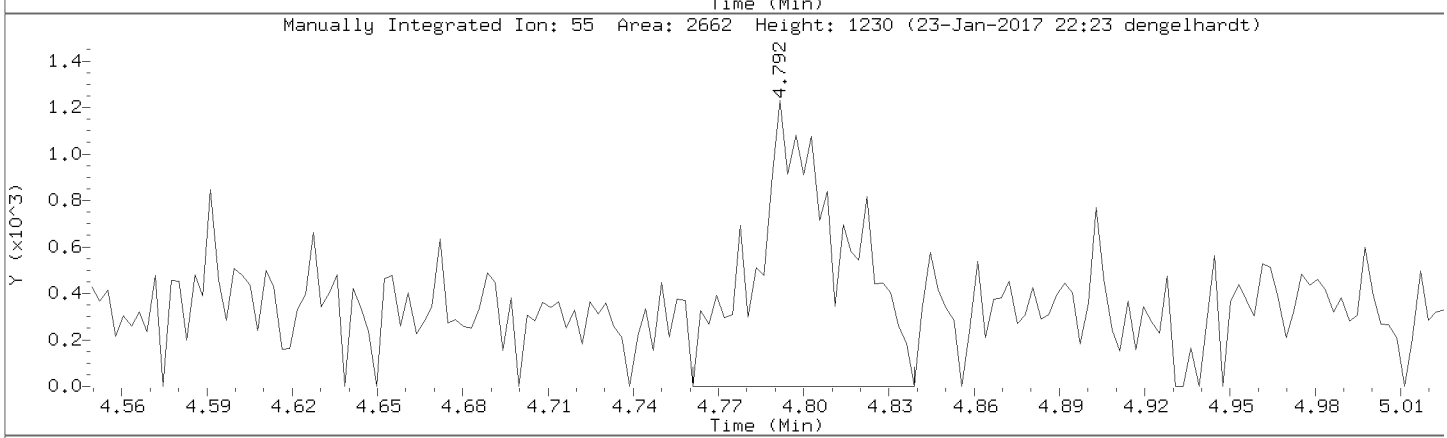


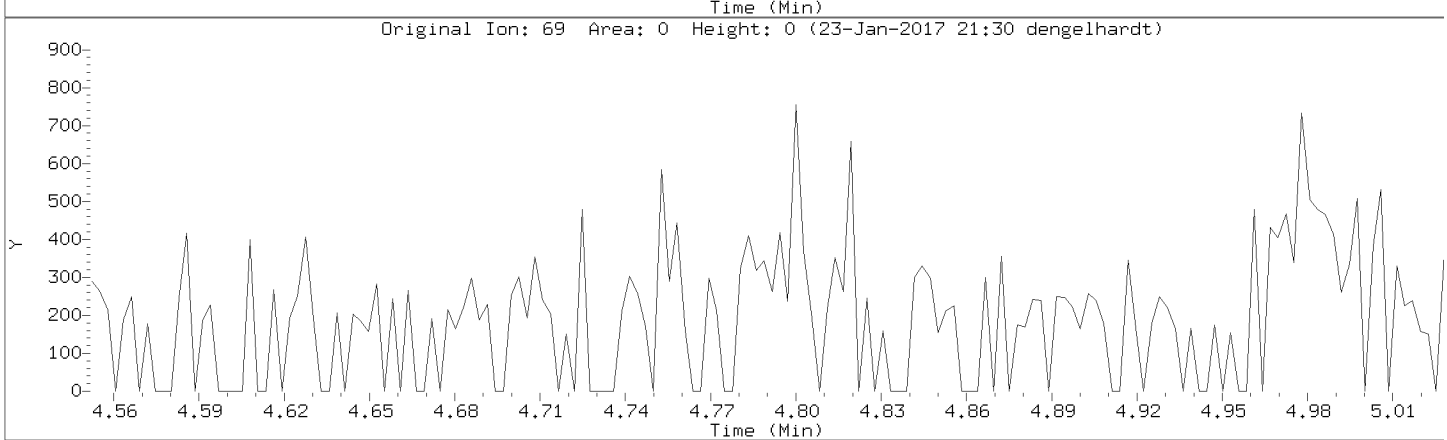


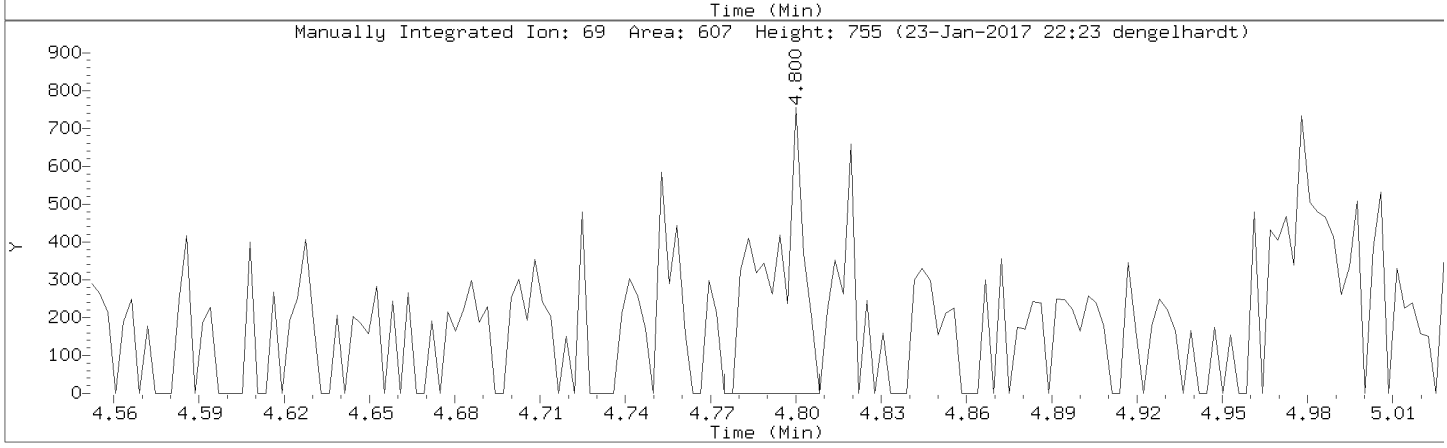
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methylcyclohexane Review Code: NI
CAS Number: 108-87-2









Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b01cal1.d
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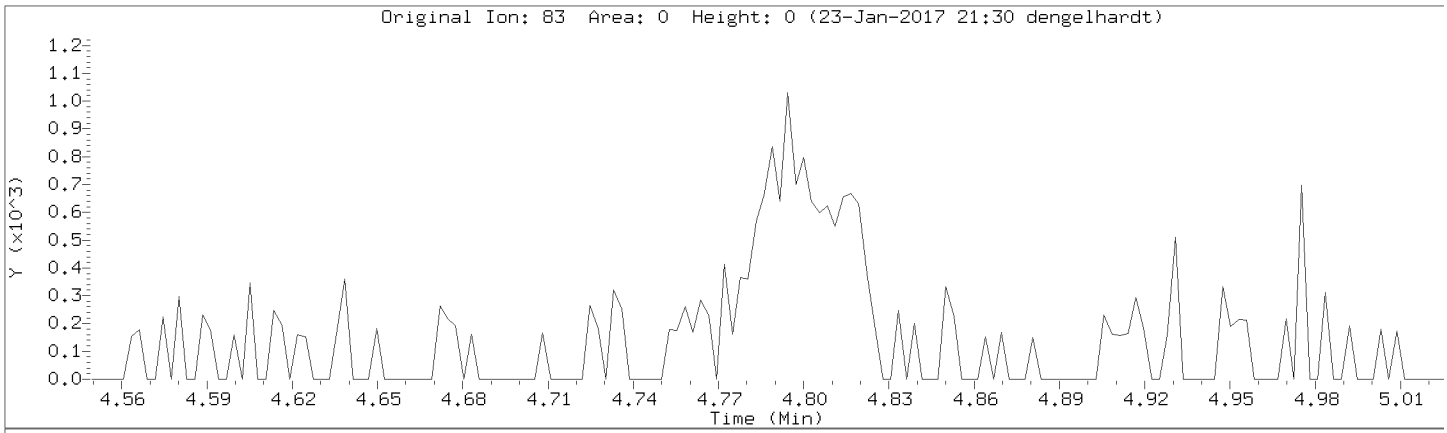
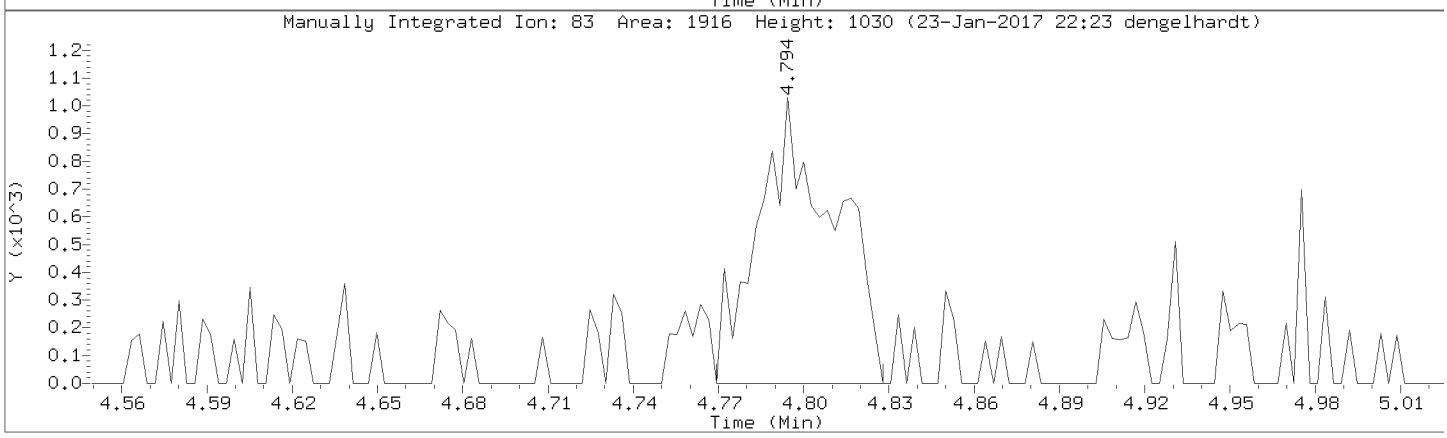
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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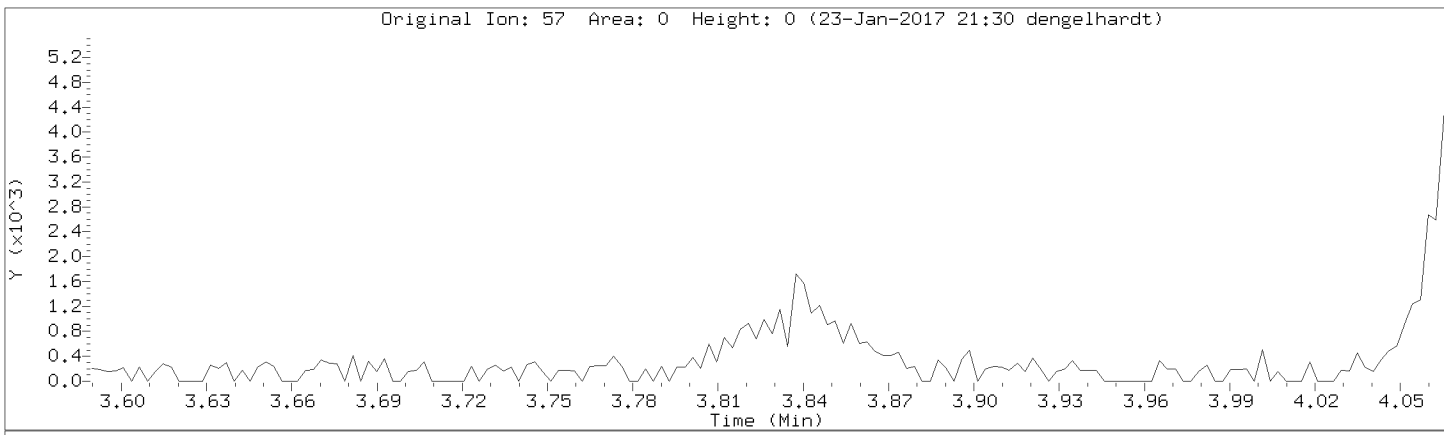
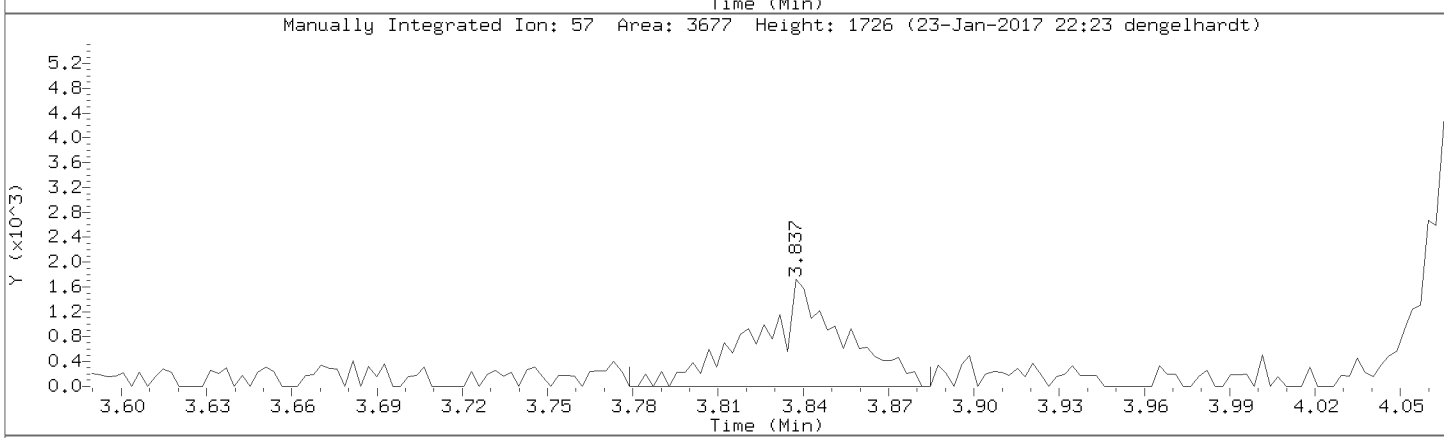
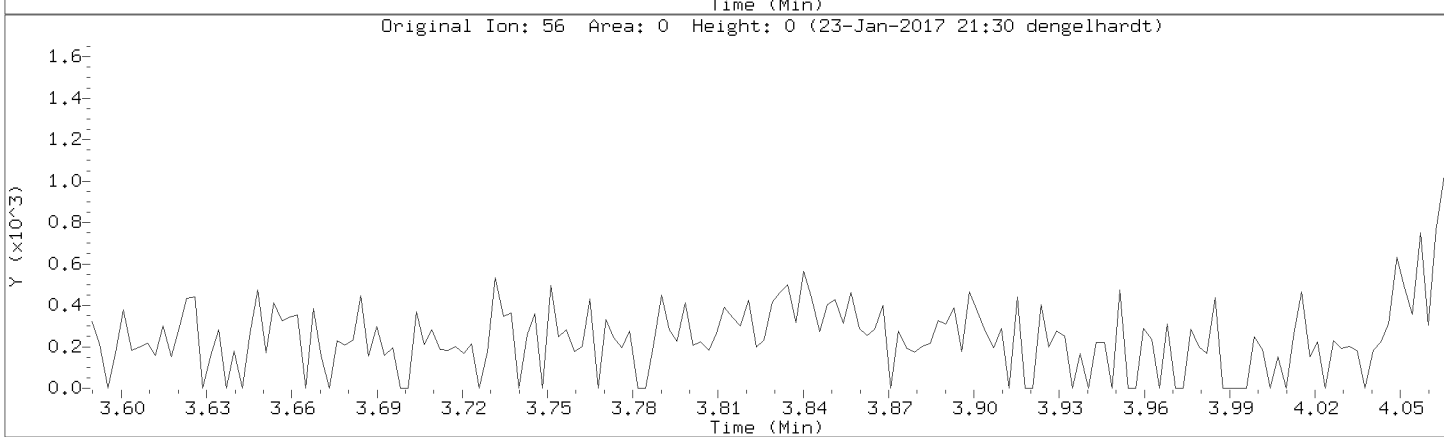
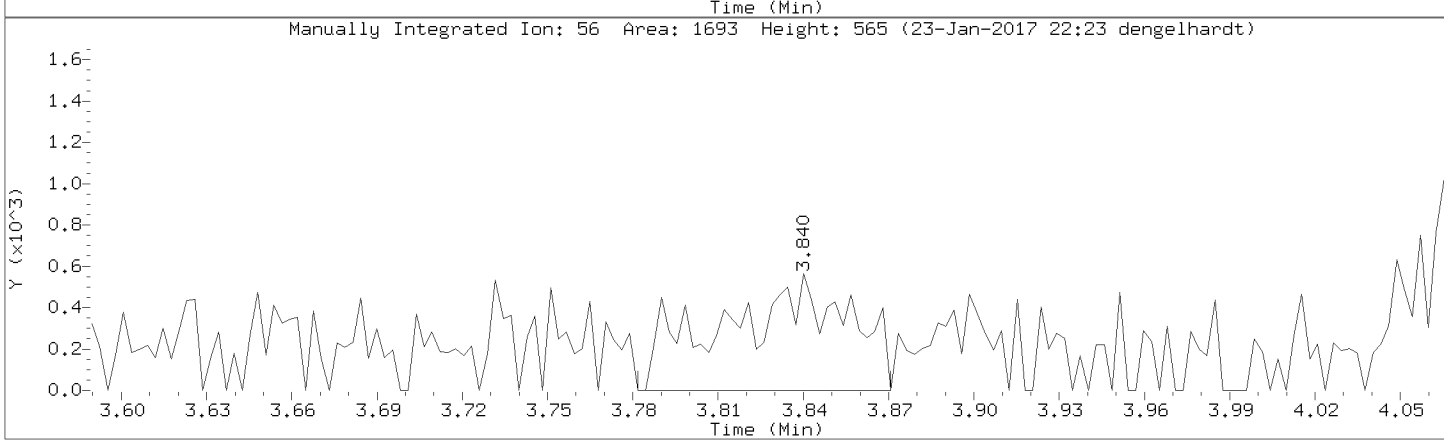
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 2,2,4-Trimethylpentane Review Code: NI
CAS Number: 540-84-1









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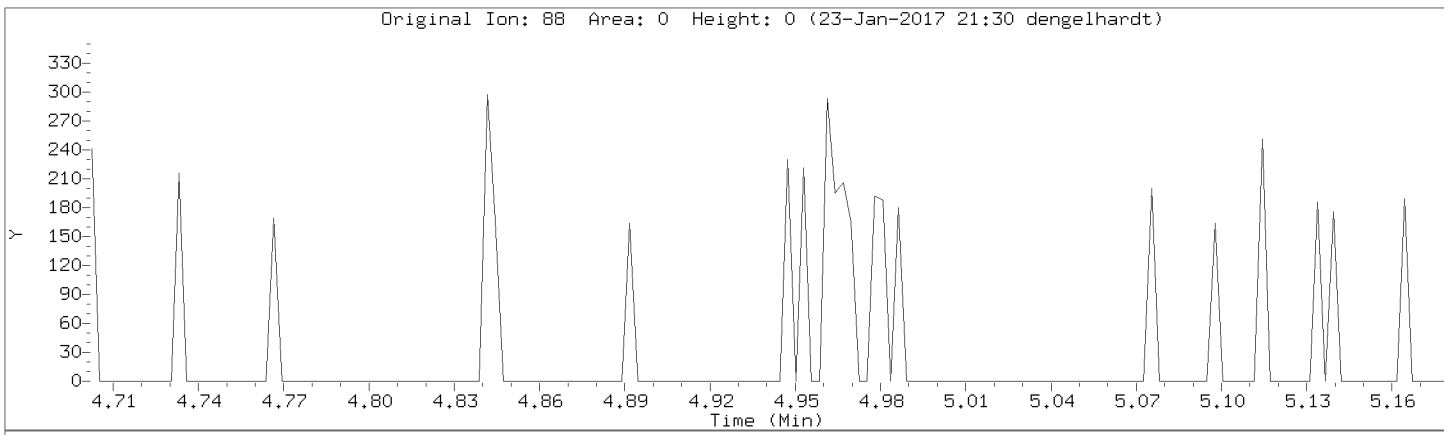
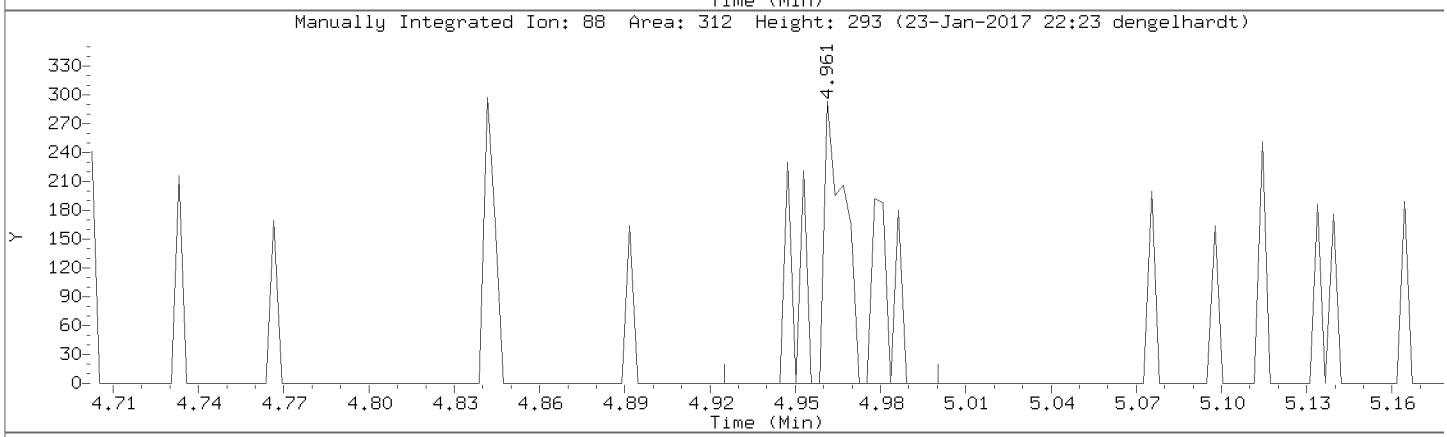
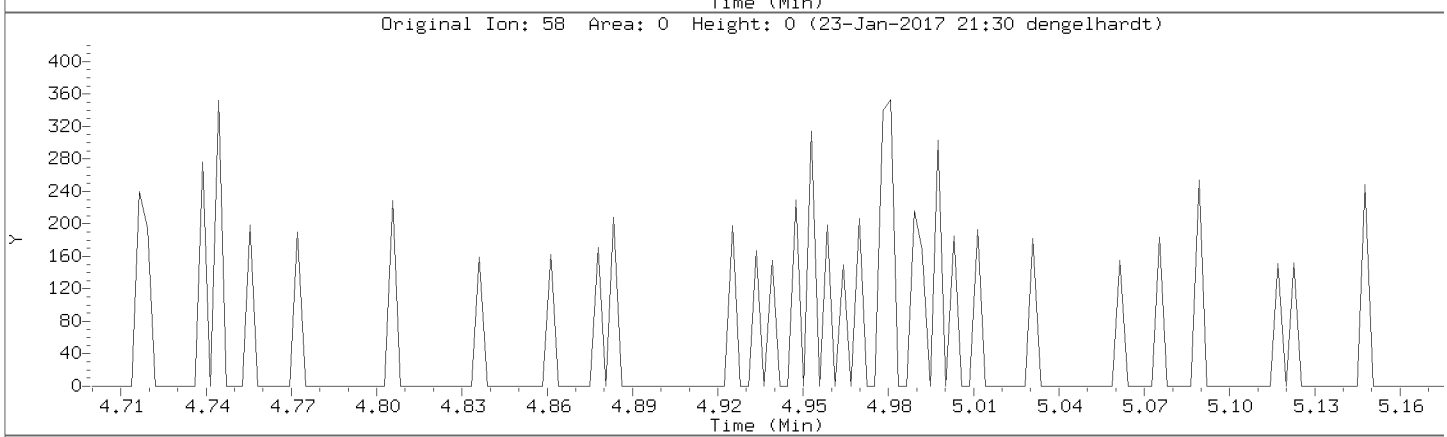
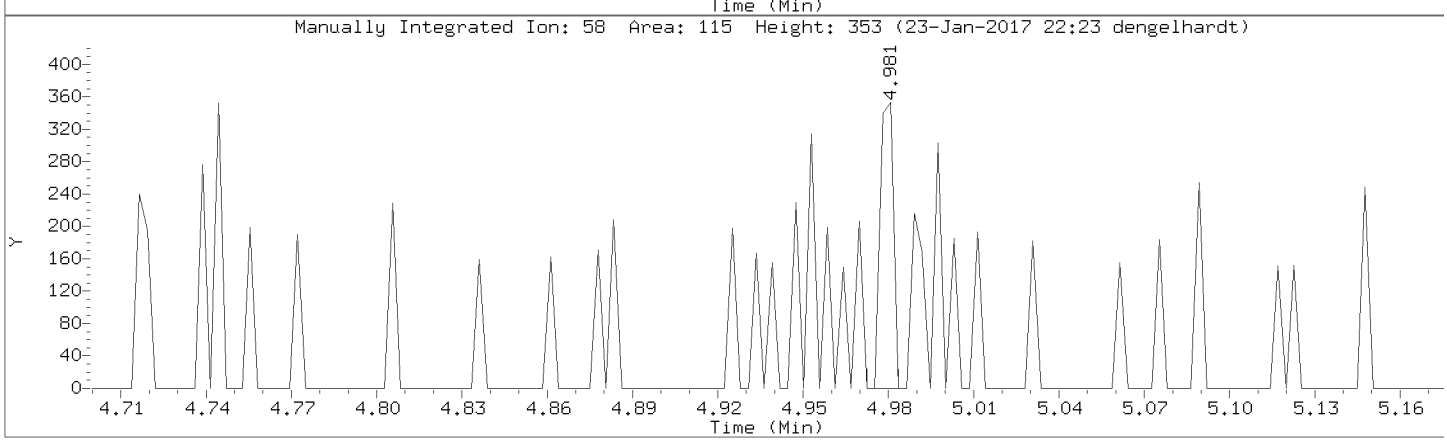
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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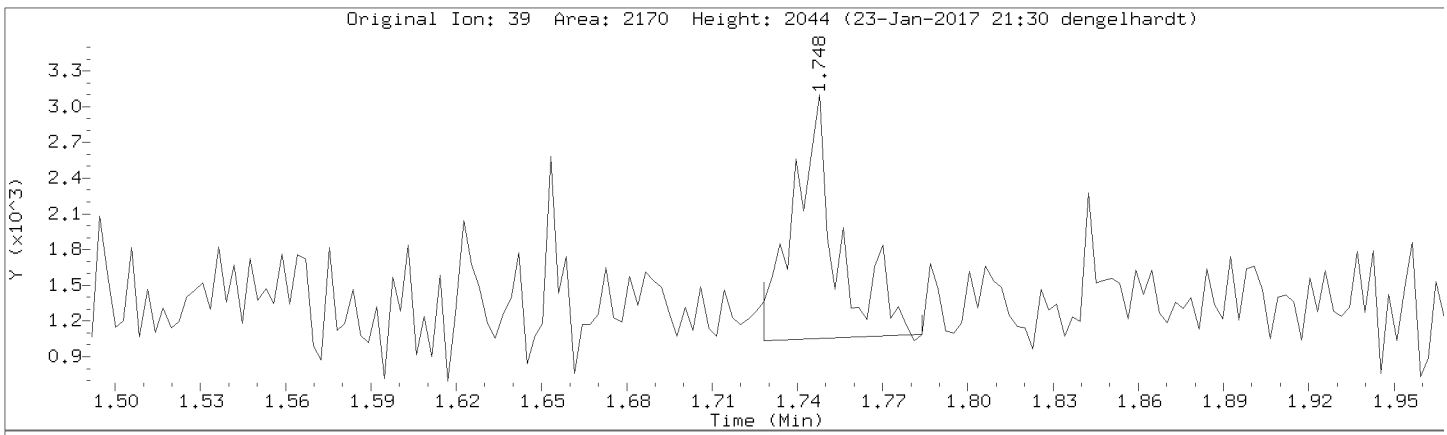
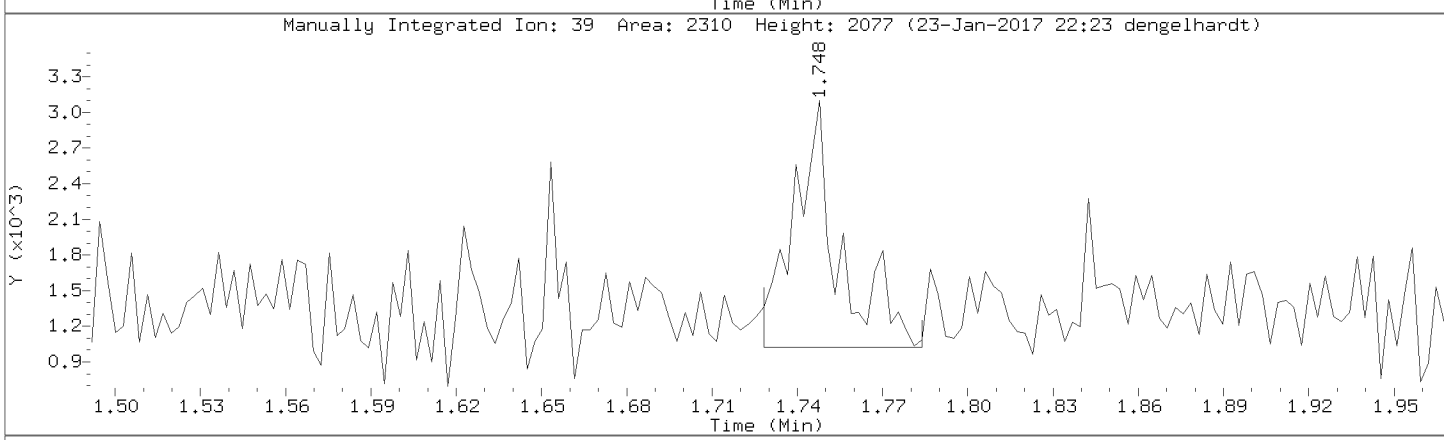
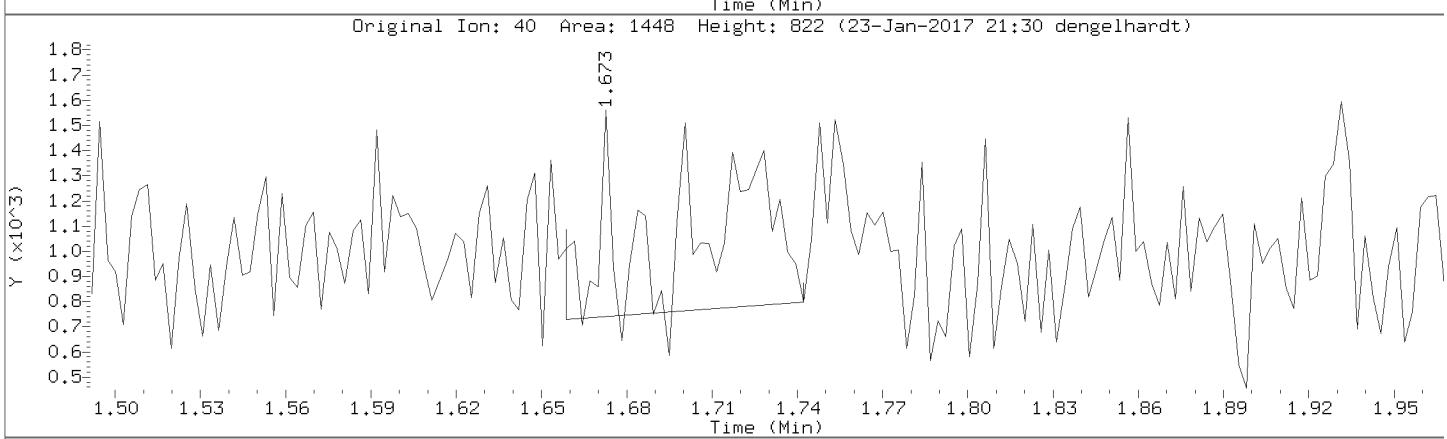
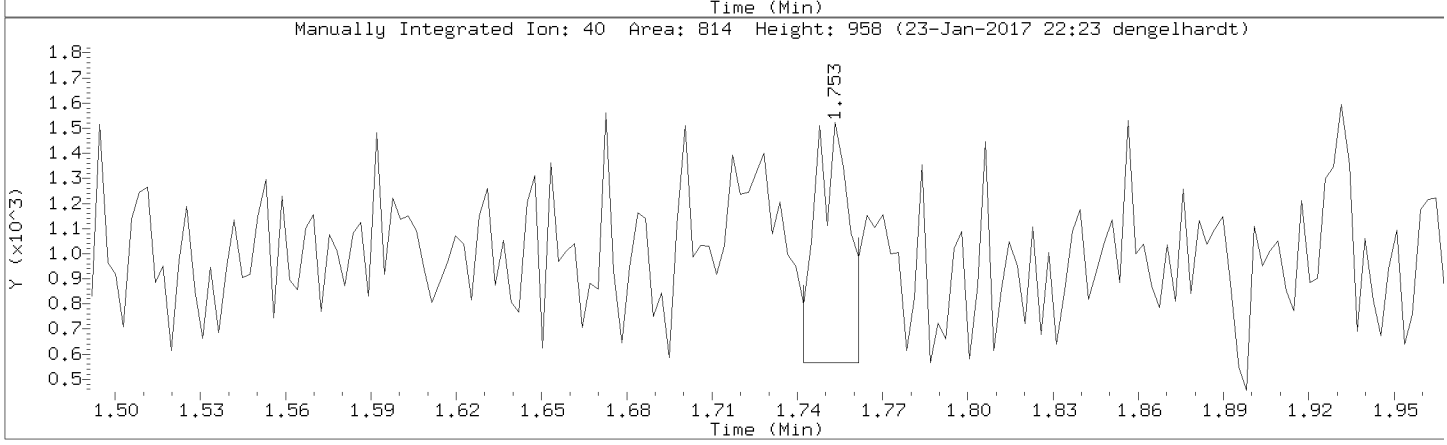
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Acetonitrile Review Code: LT
CAS Number: 75-05-8









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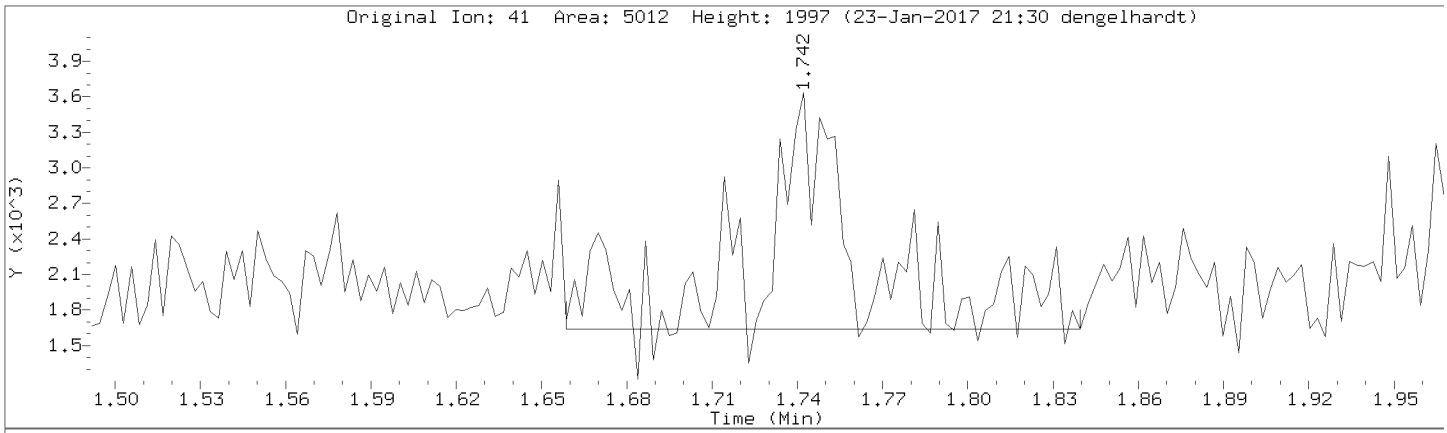
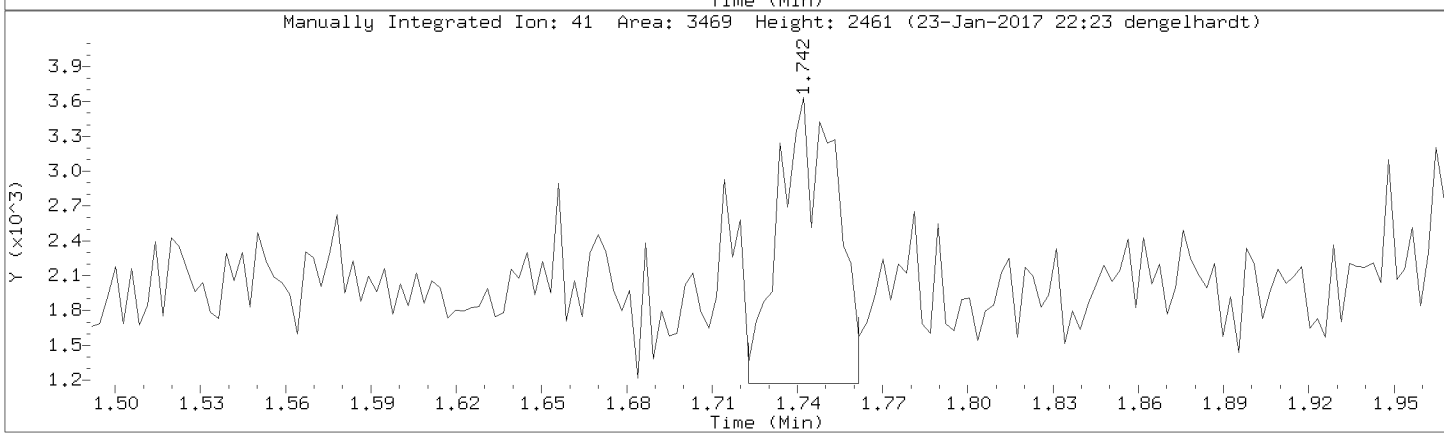
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0





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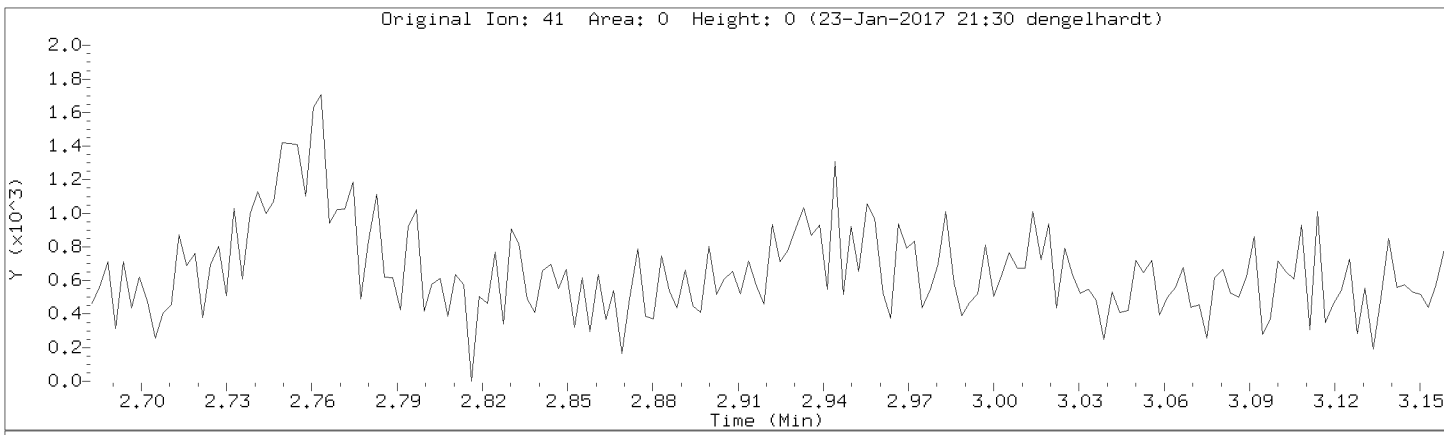
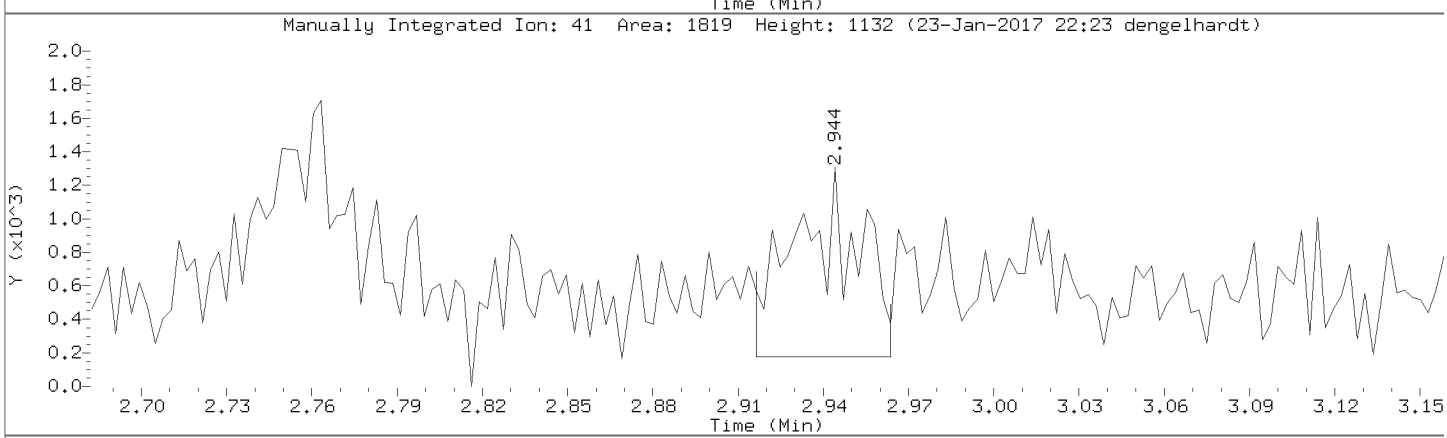
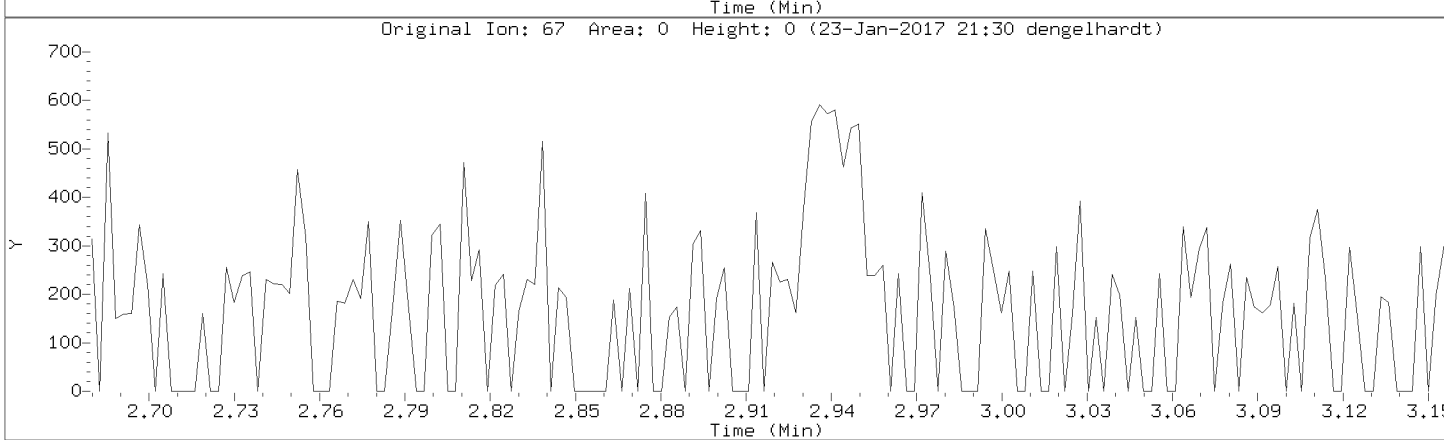
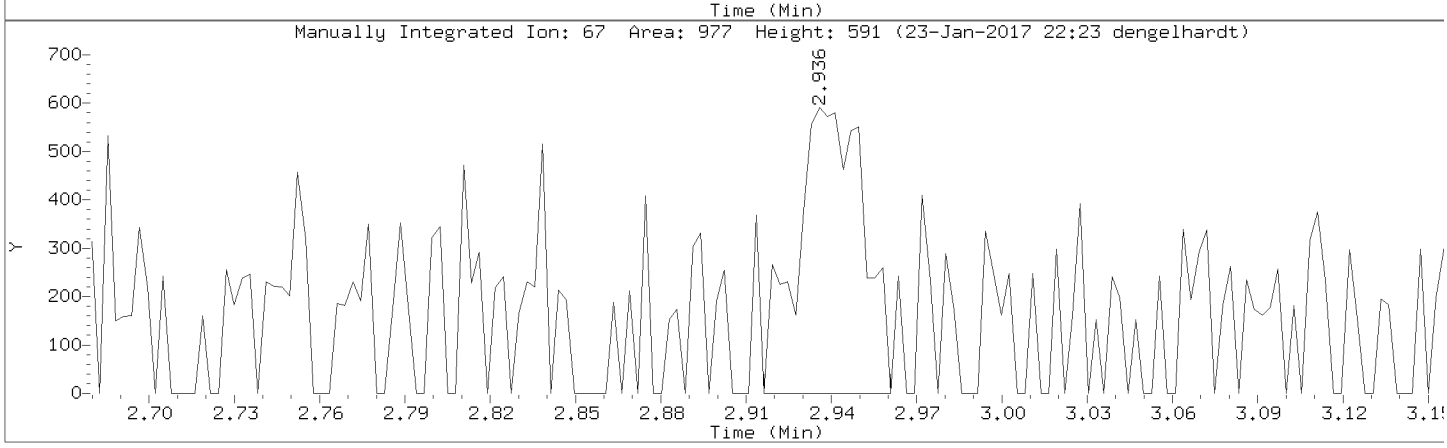
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7









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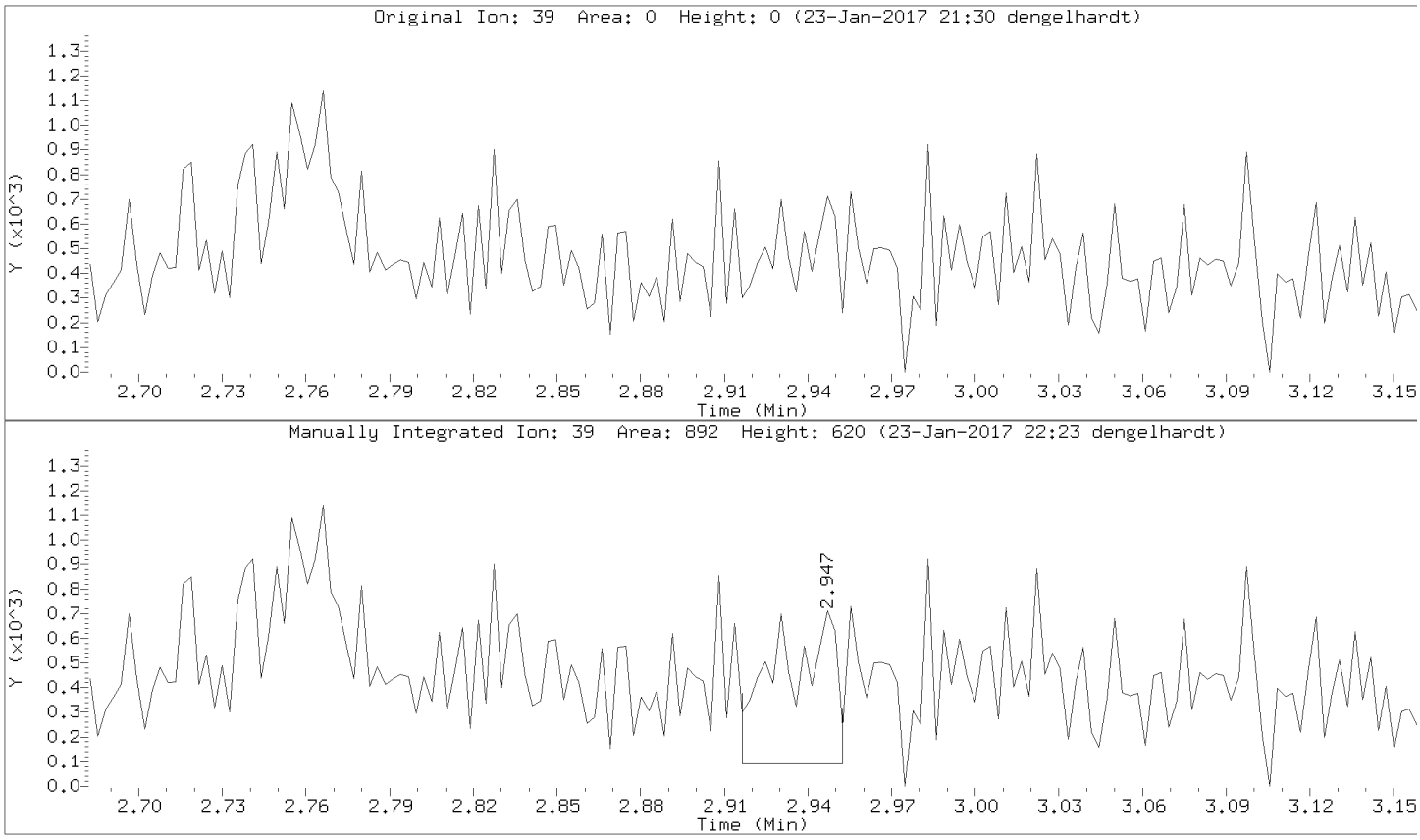
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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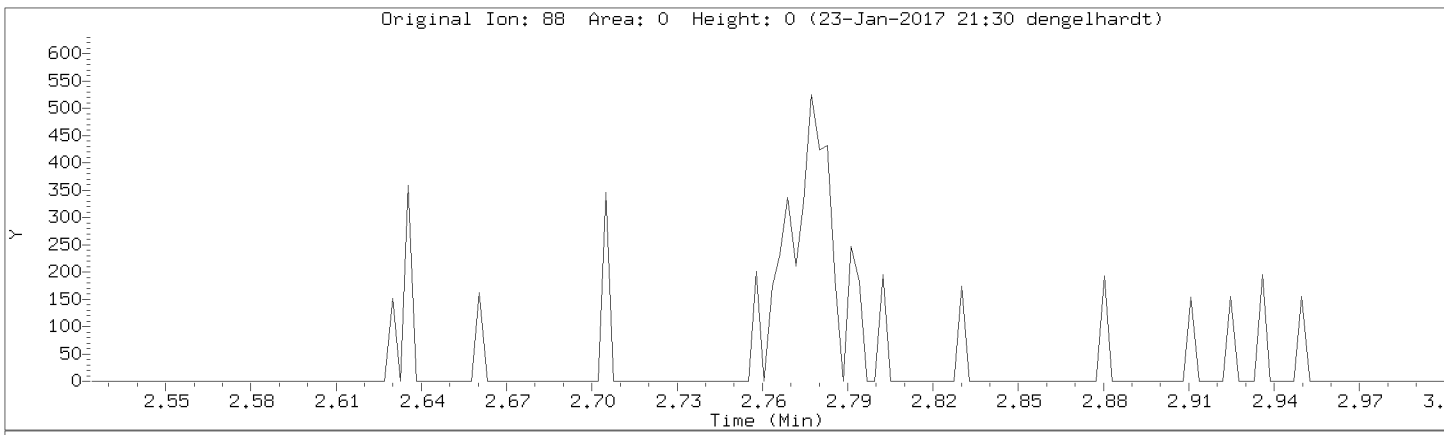
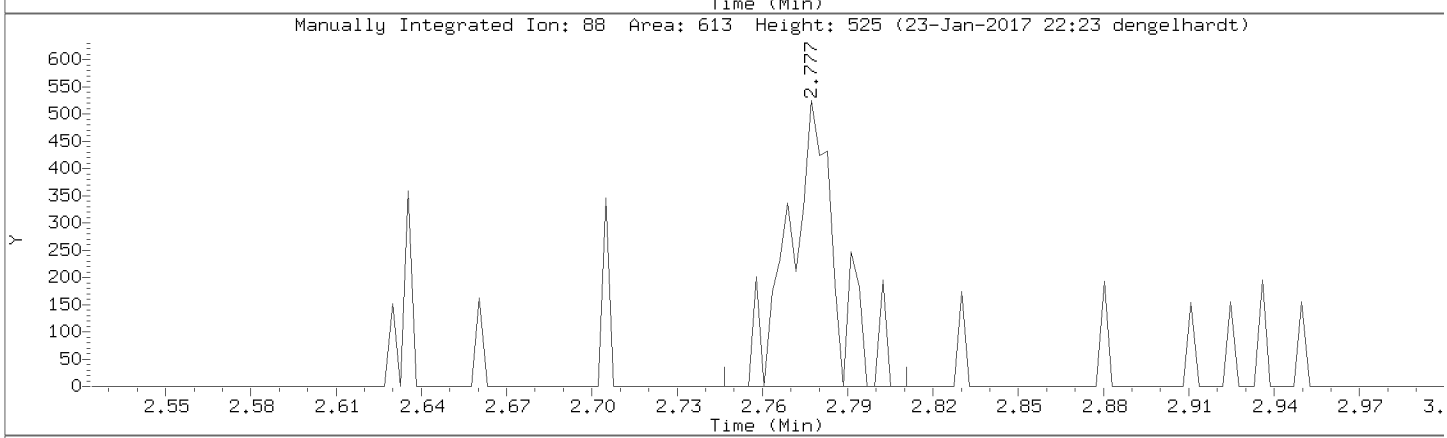
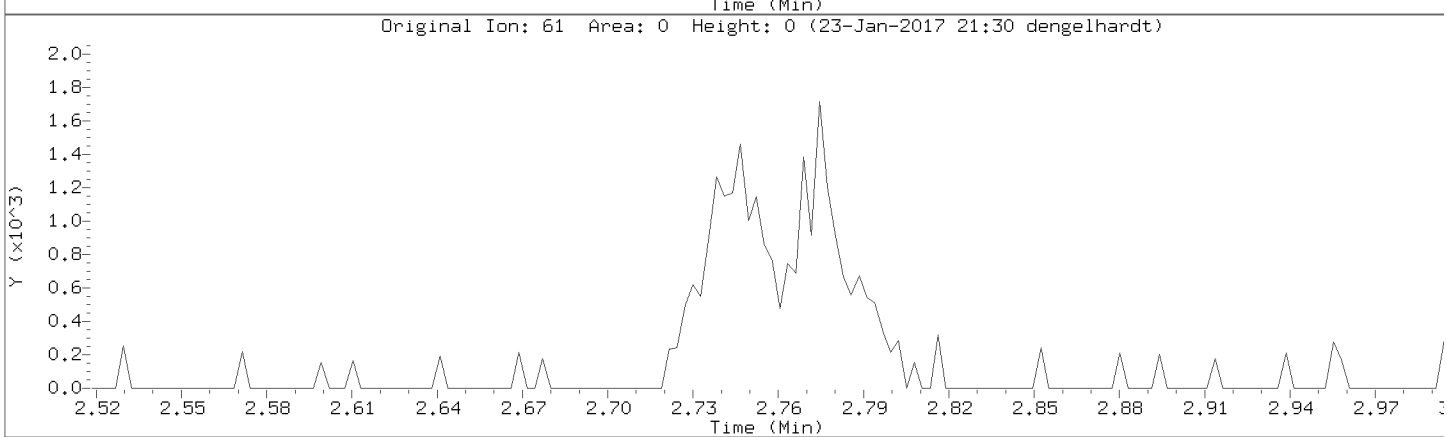
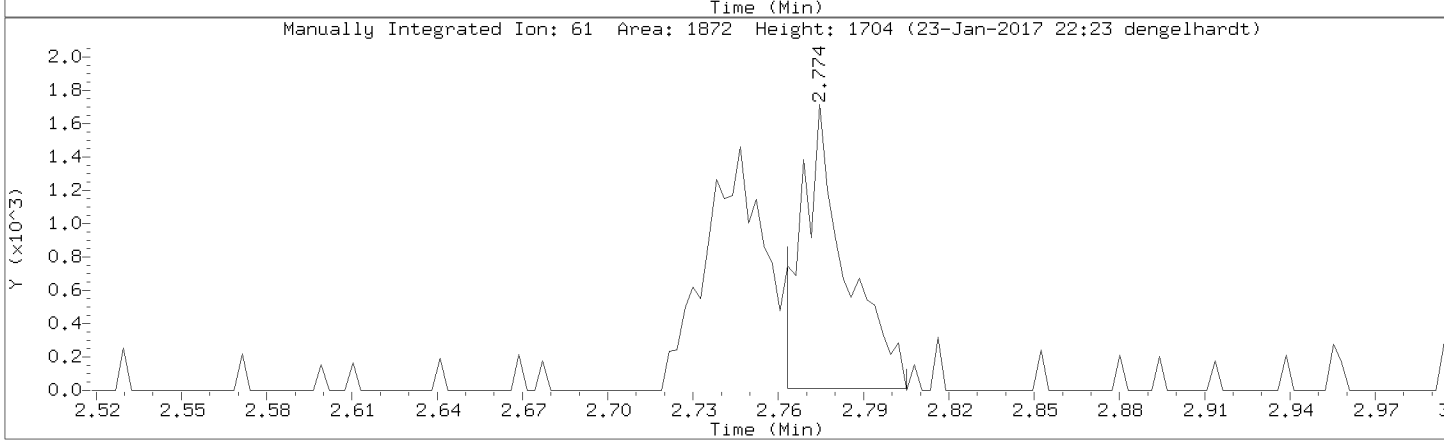
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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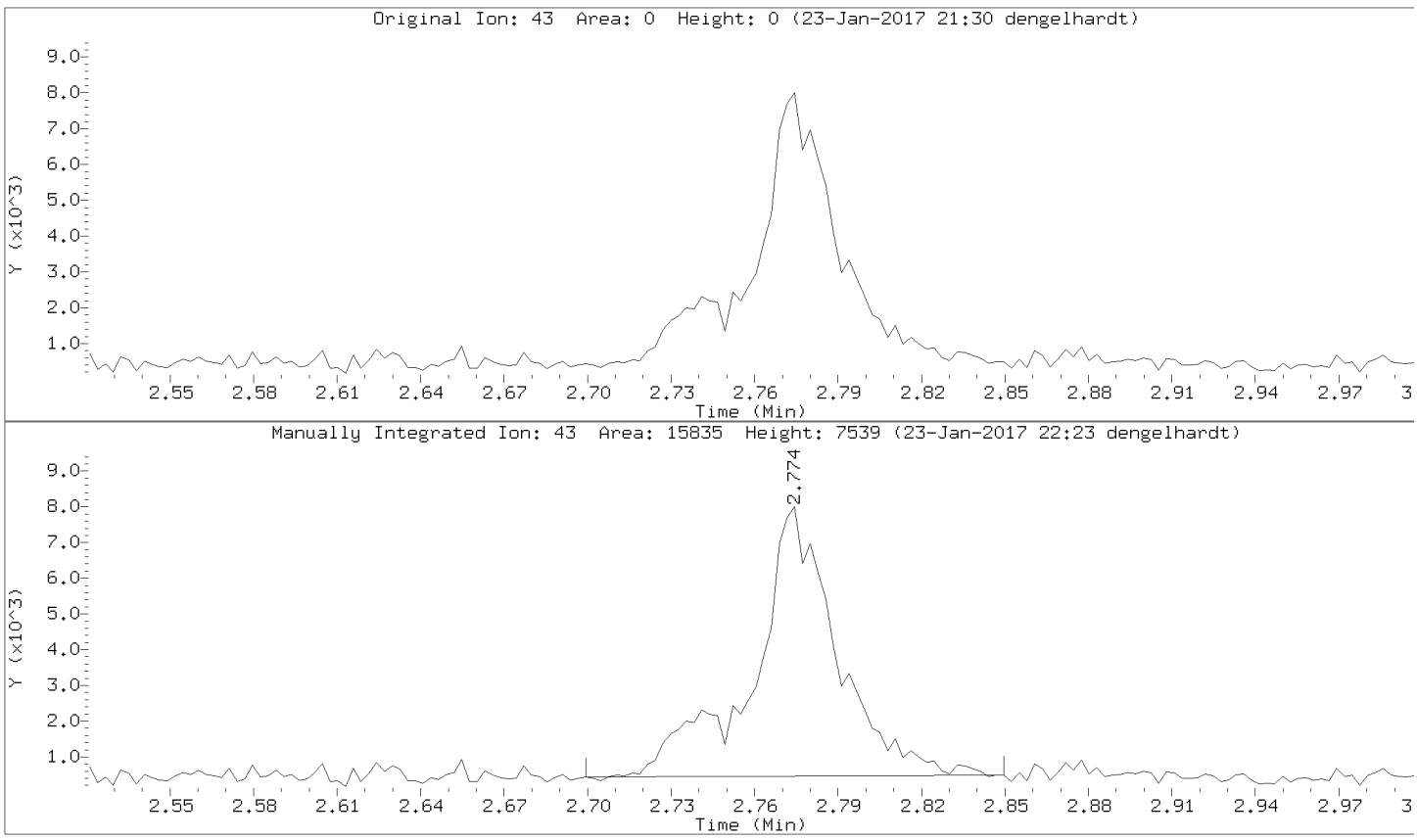

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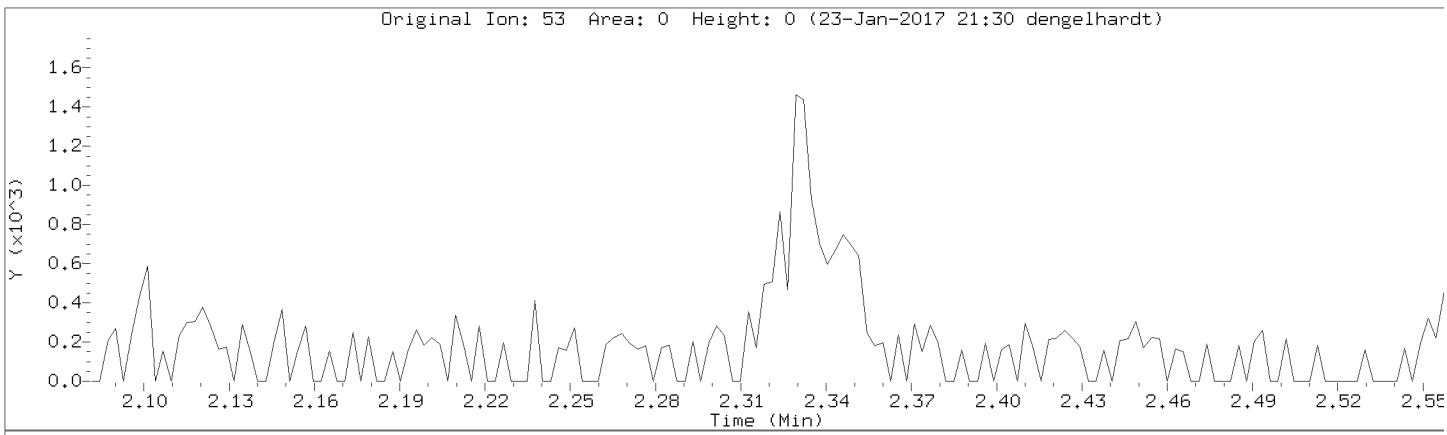
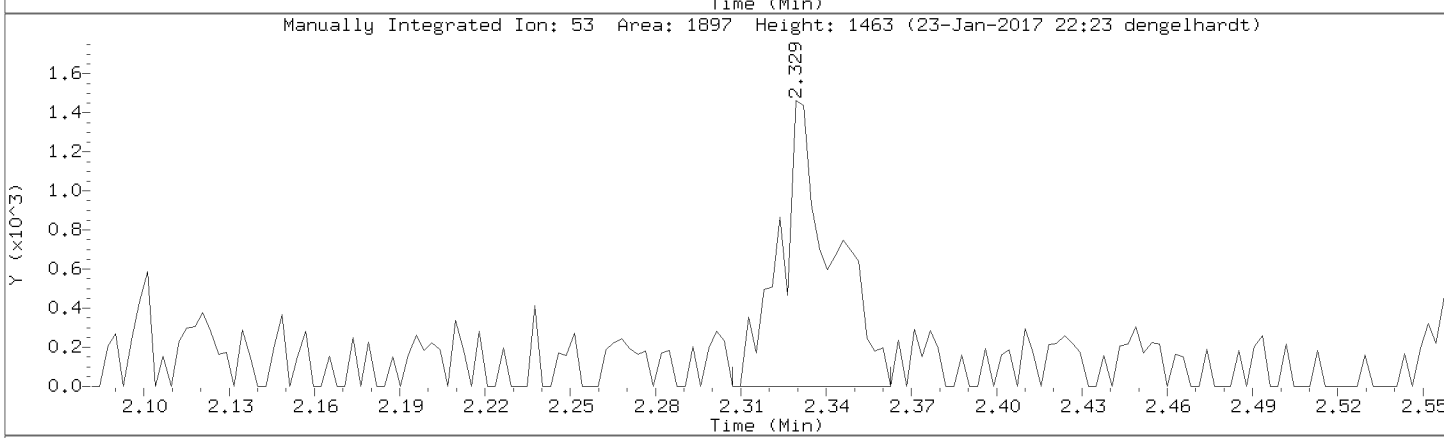
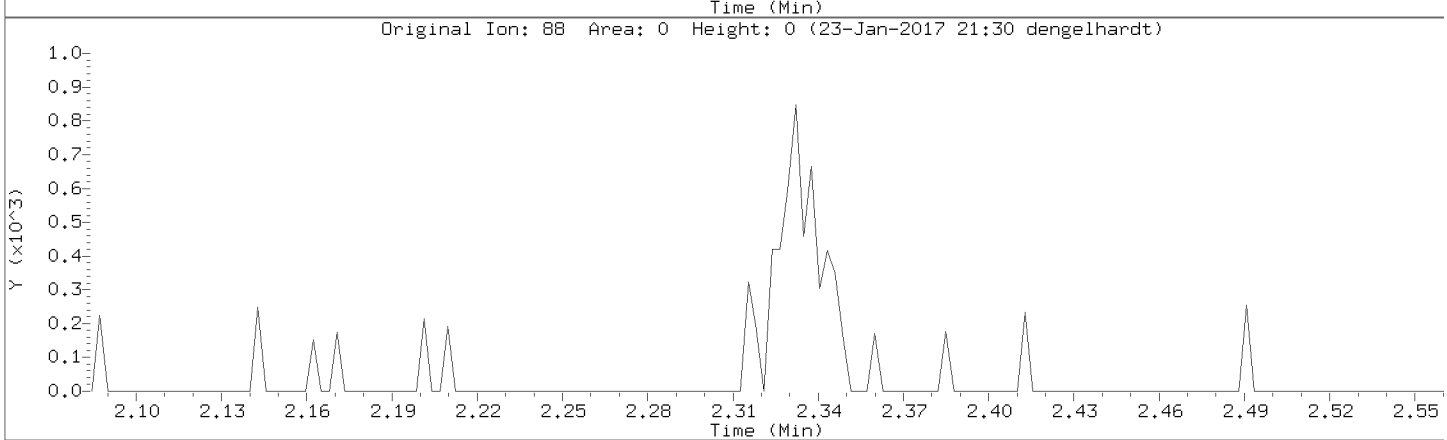
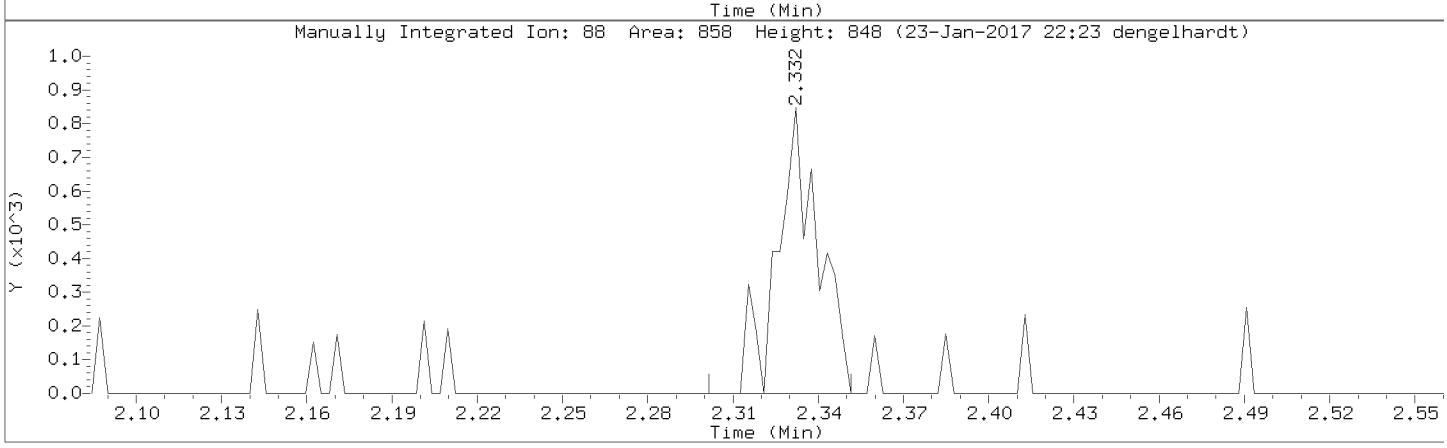
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8









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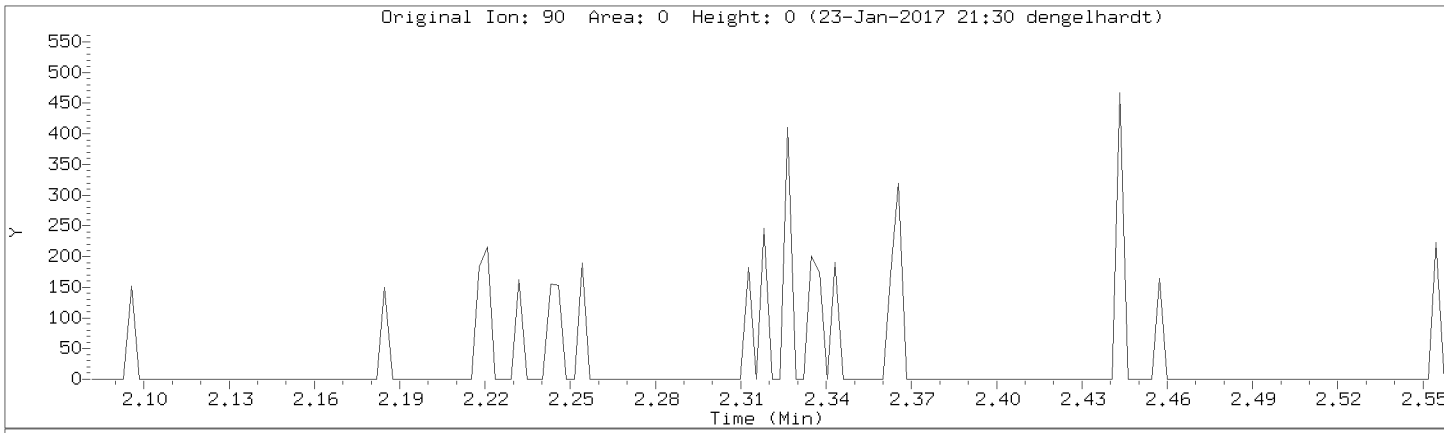
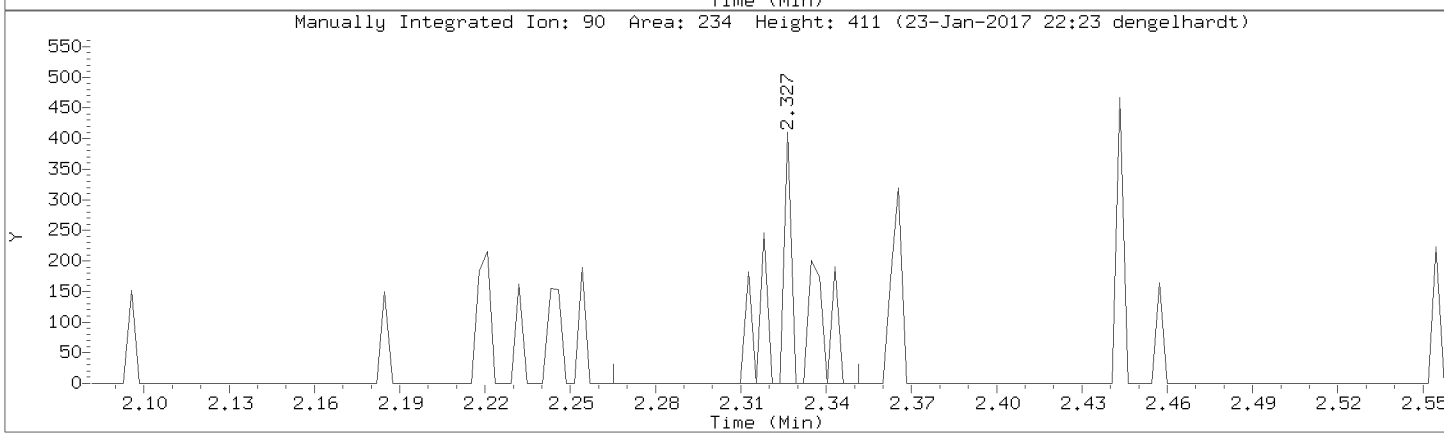
Lab Sample ID: 8260-CAL1,140426:0





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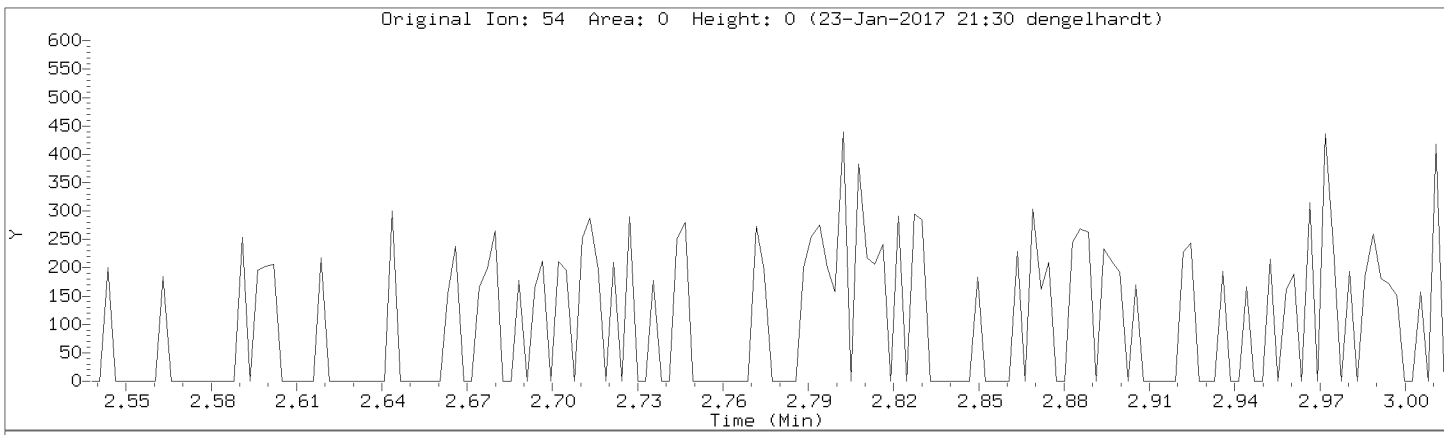
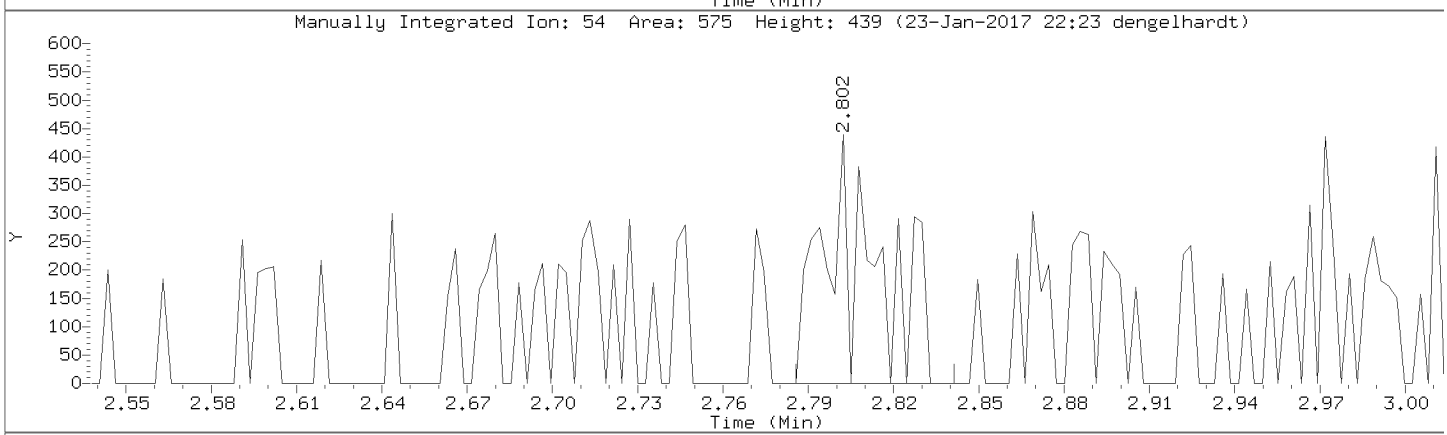
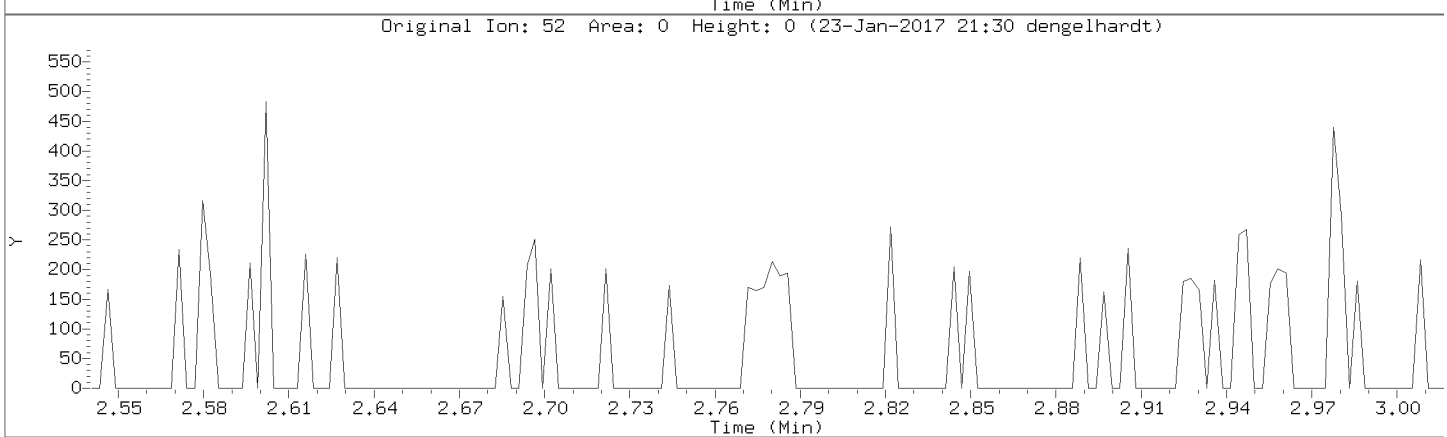
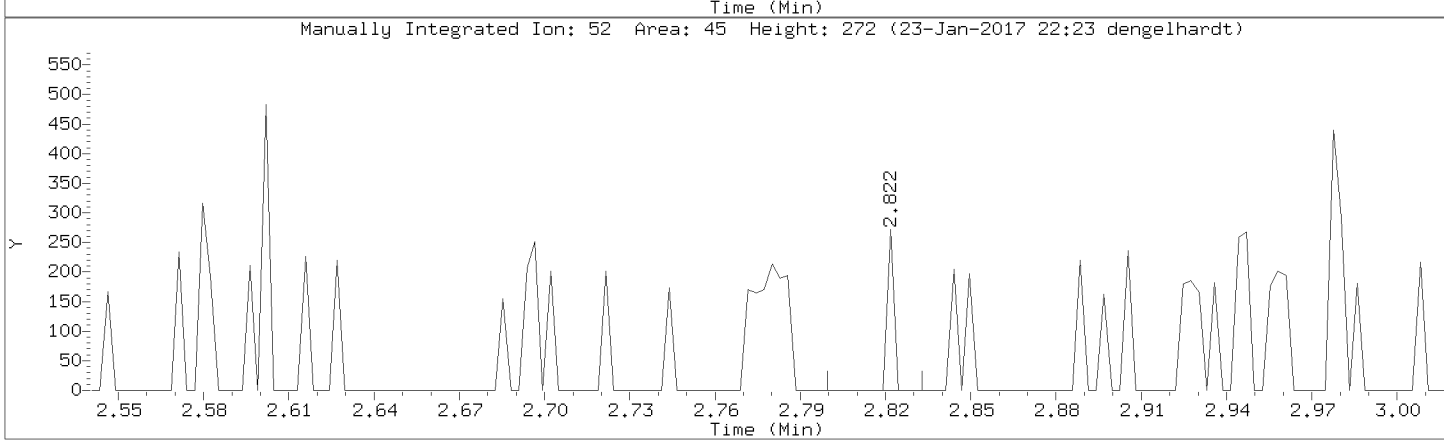
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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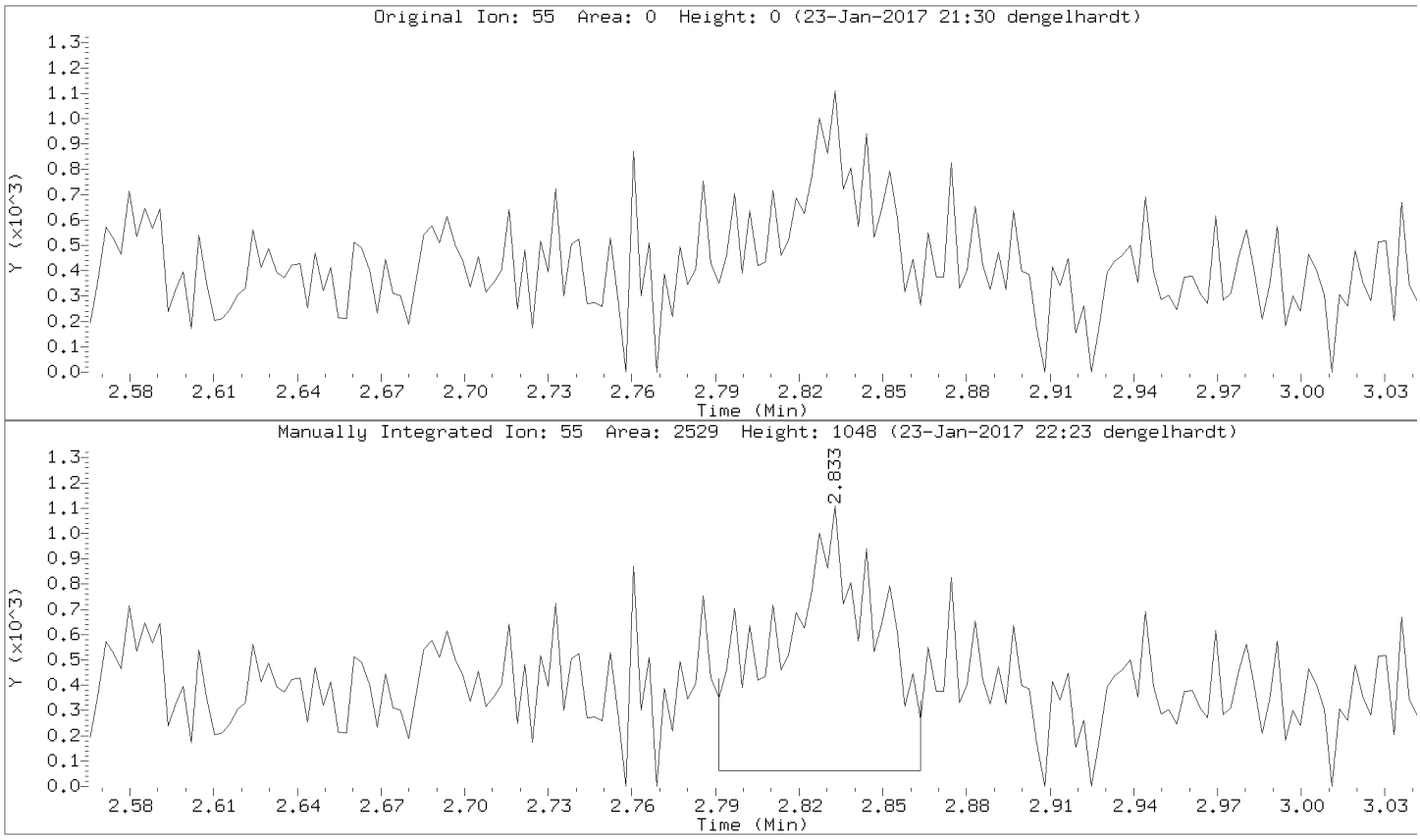
Lab Sample ID: 8260-CAL1,140426:0



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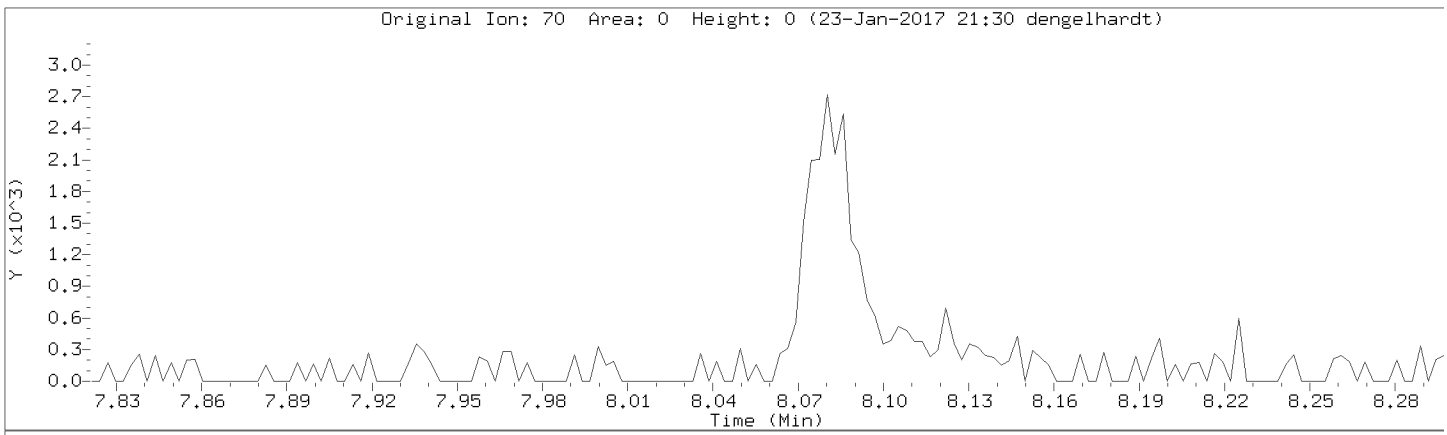
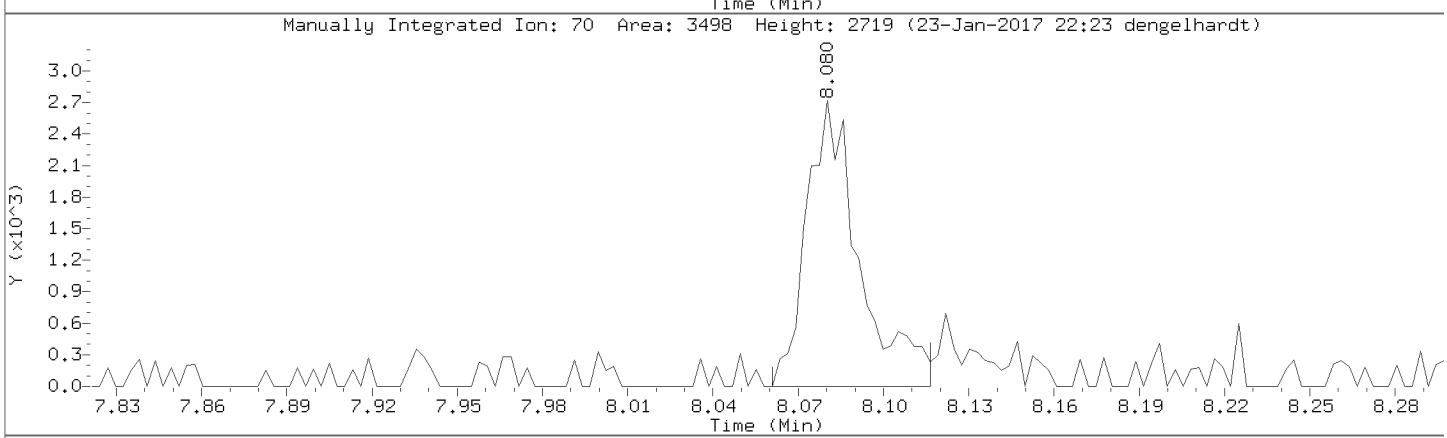
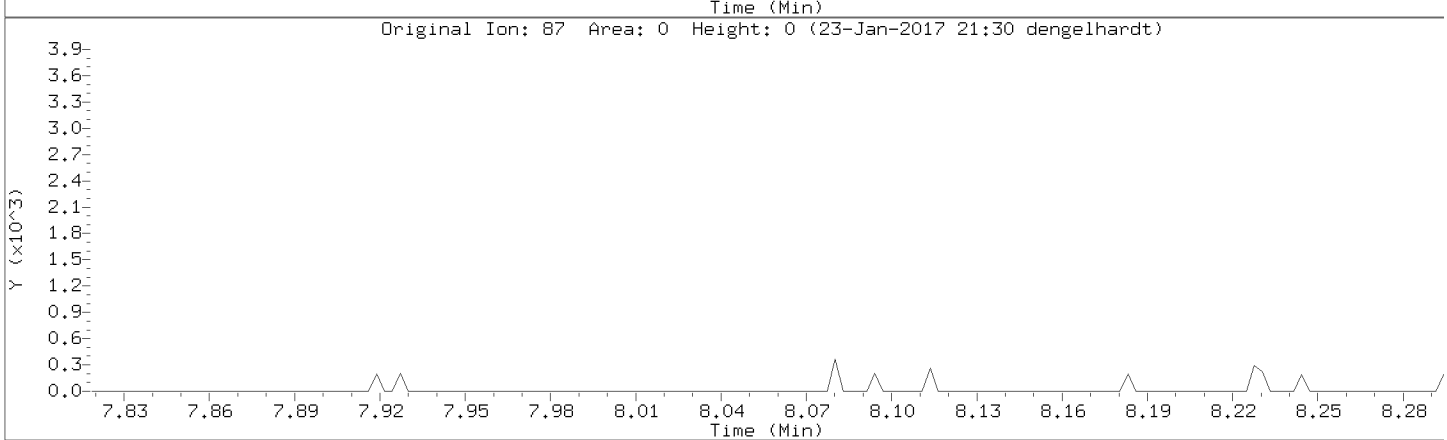
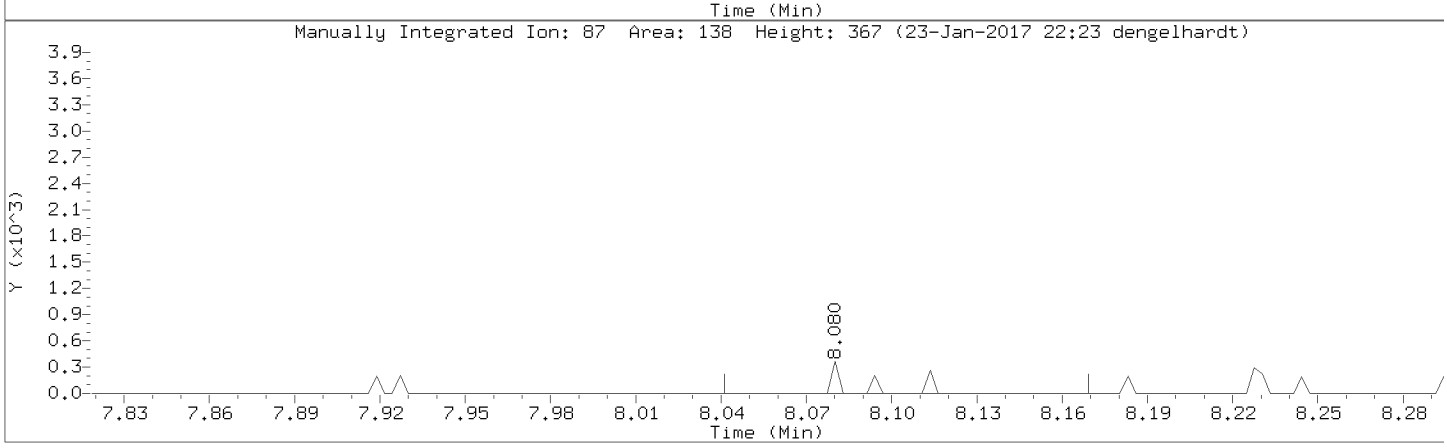
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-amyl acetate Review Code: LT
CAS Number: 628-63-7









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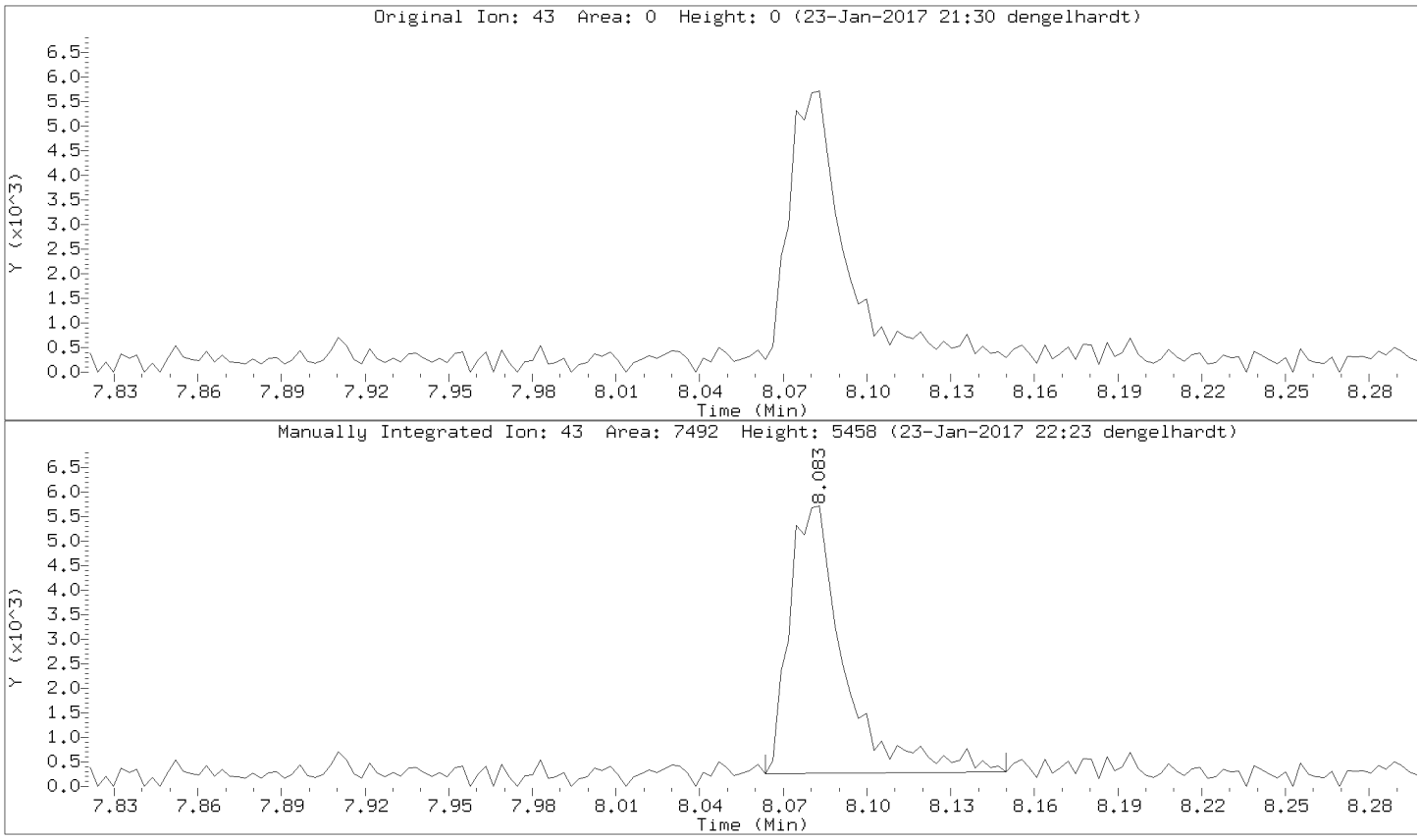
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0



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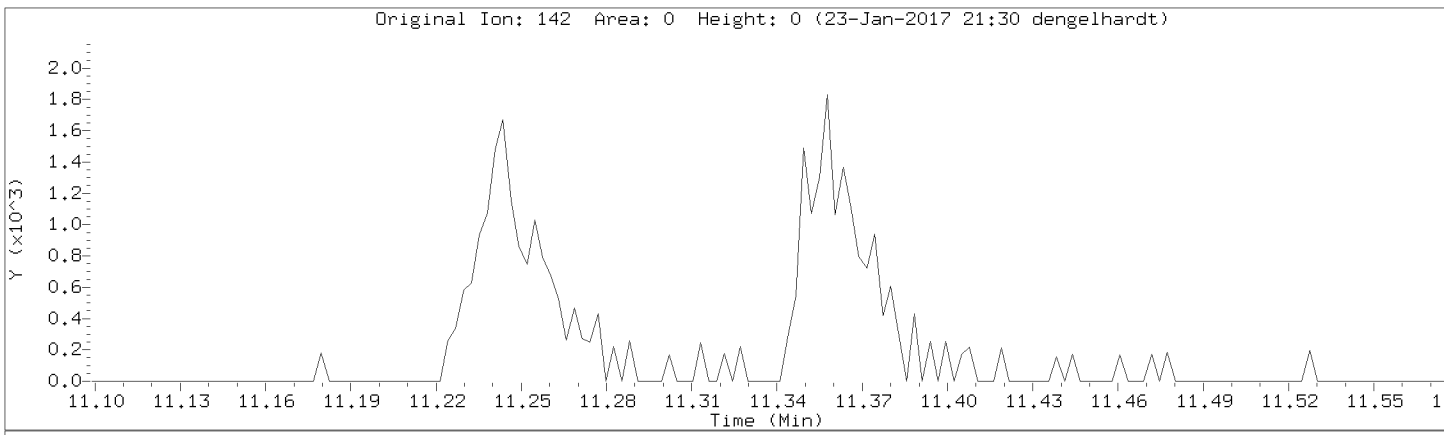
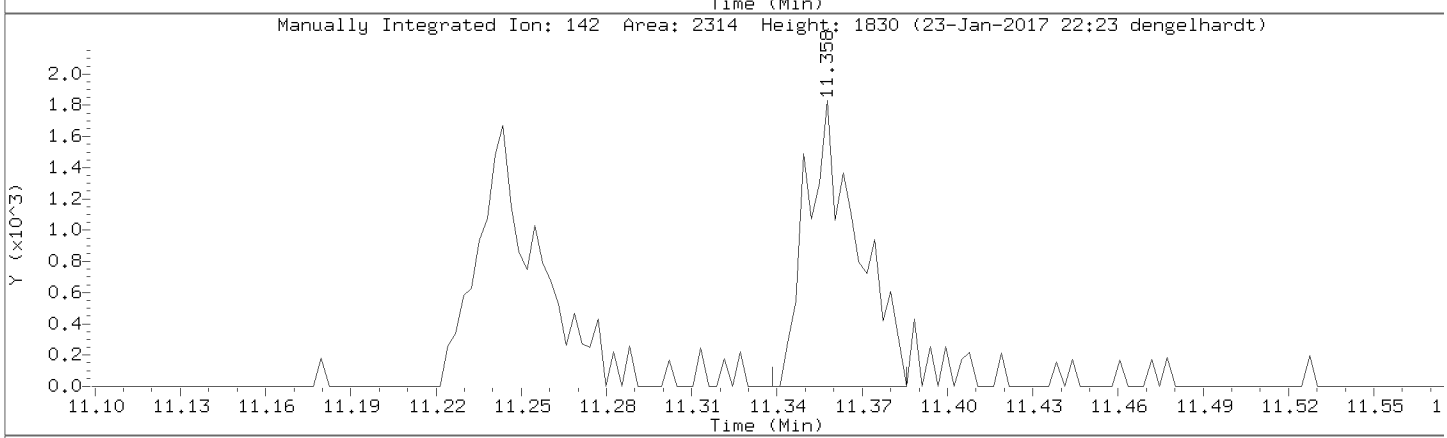
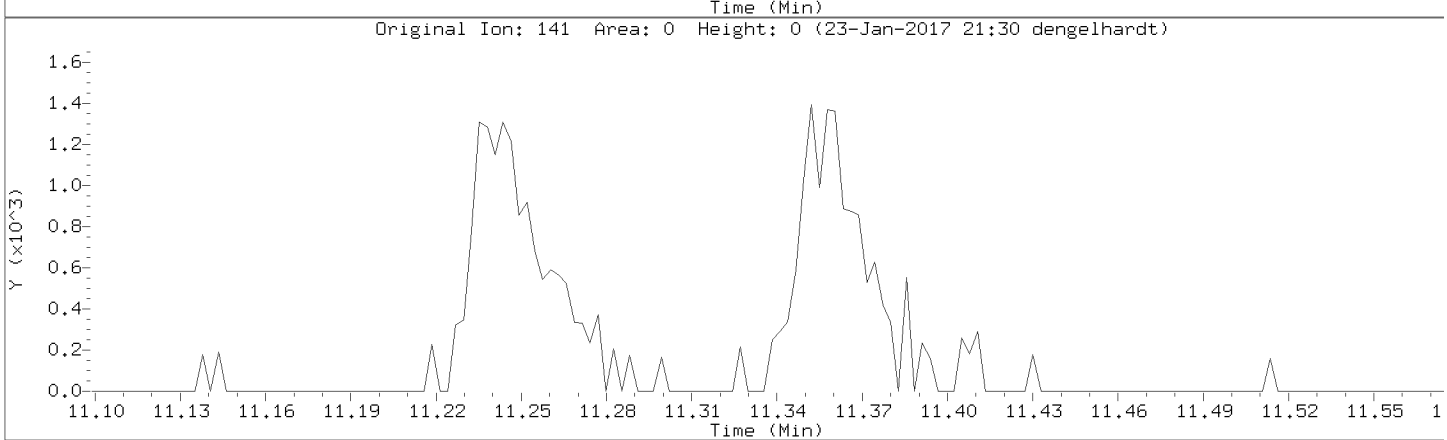
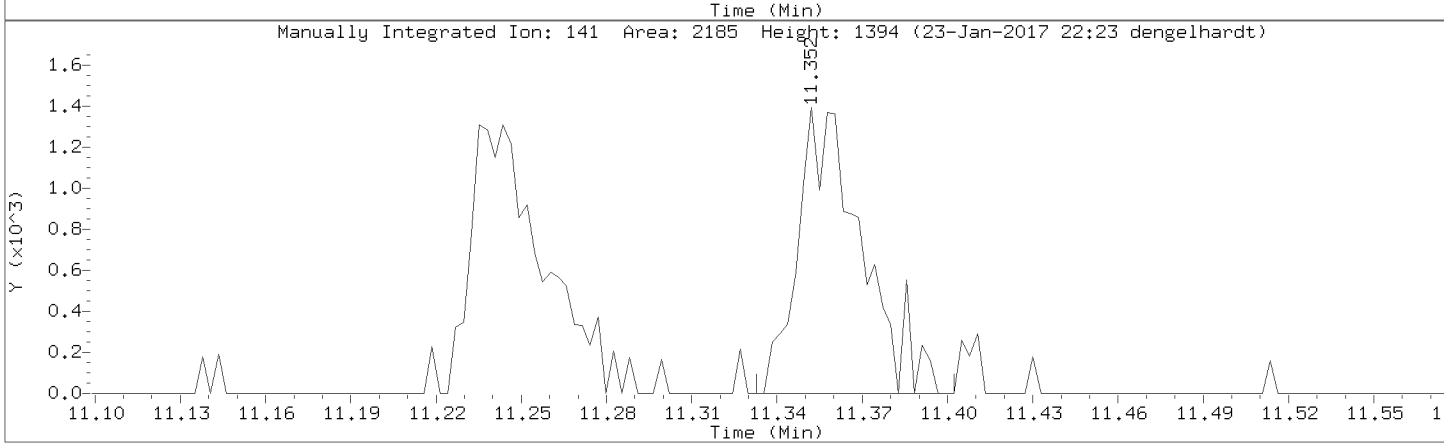
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: 1-Methylnaphthalene Review Code: NI
CAS Number: 90-12-0









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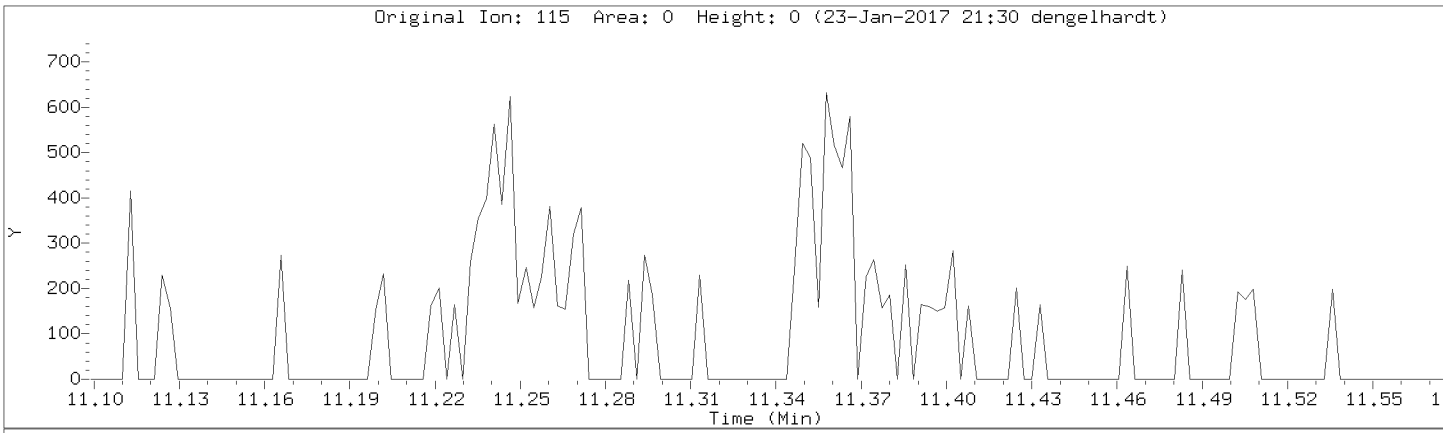
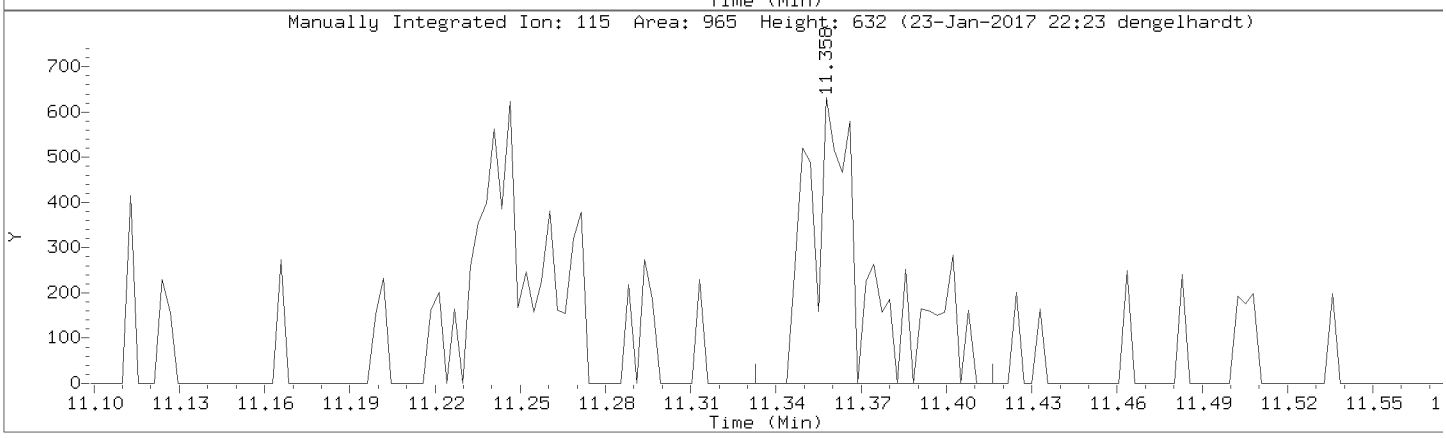
Lab Sample ID: 8260-CAL1,140426:0





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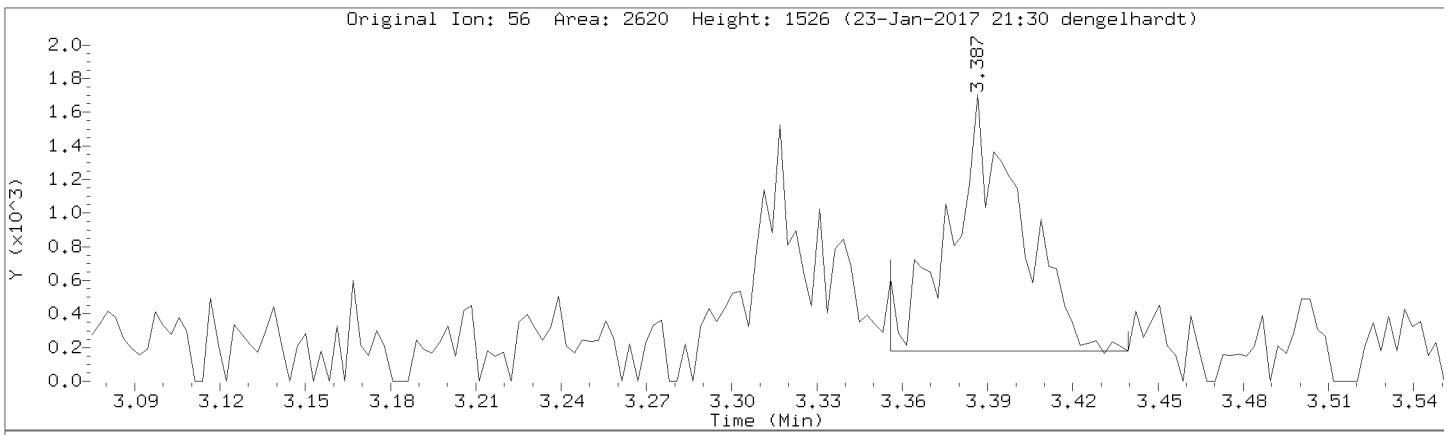
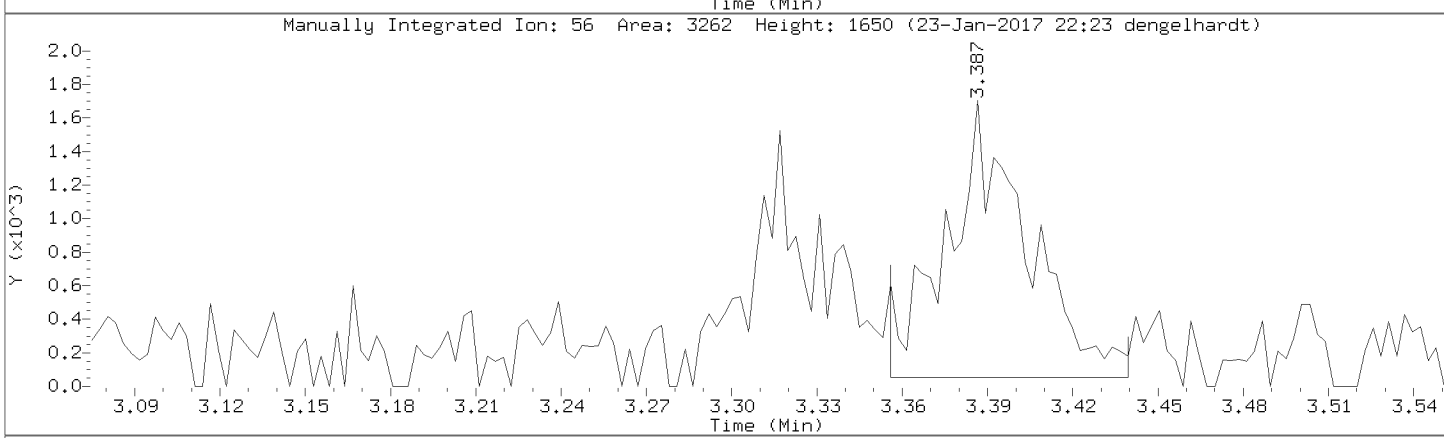
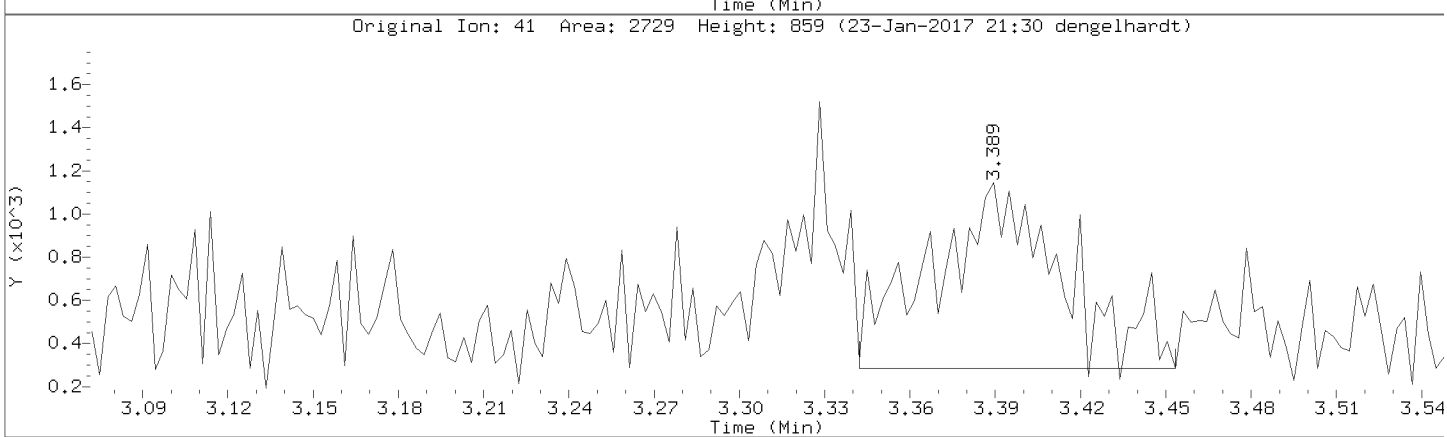
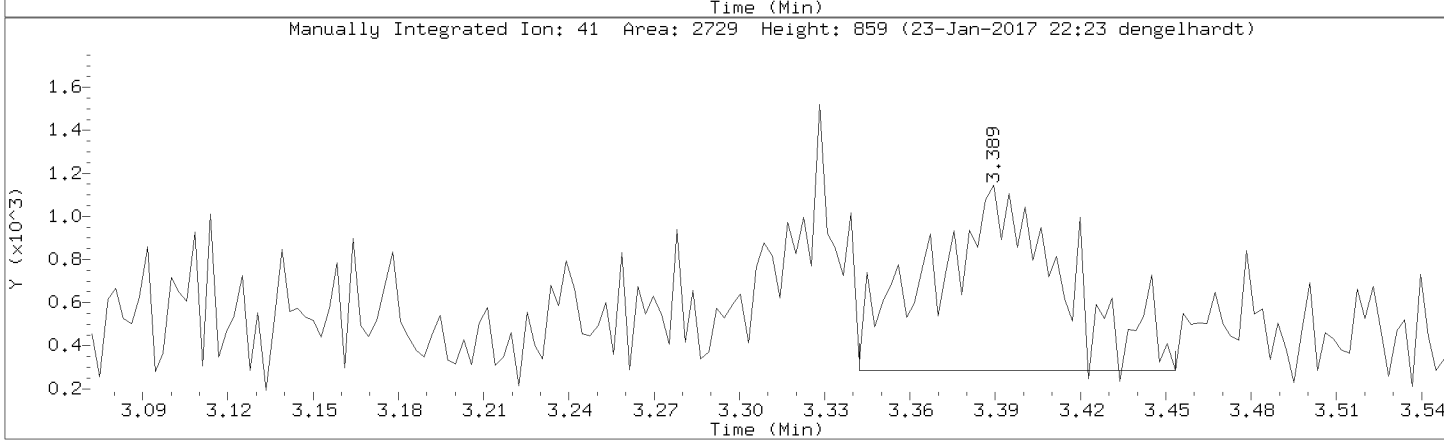
Injection Date: 22-JAN-2017 22:10
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL1,140426:0

Compound: n-butyl chloride Review Code: LT
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b02cal2.d
Lab Smp Id: 8260-CAL2 Client Smp ID: 8260-CAL2
Inj Date : 22-JAN-2017 22:43
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal2,140427:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 55 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.216)	1744	1.00000	2.72(QM)	NI
2 Chloromethane	50	0.993	0.990	(0.244)	3042	1.00000	1.16	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	2673	1.00000	1.27(Q)	
4 Bromomethane	94	1.152	1.149	(0.283)	1324	1.00000	0.727(Q)	
5 Chloroethane	64	1.193	1.193	(0.293)	1576	1.00000	0.867(QM)	LT
6 Trichlorofluoromethane	101	1.308	1.305	(0.321)	2949	1.00000	1.32(Q)	
7 Diethyl ether	74	1.422	1.427	(0.349)	1945	1.00000	1.28(Q)	
8 1,2-dichlorotrifluoroethane	67	1.441	1.444	(0.354)	4414	1.00000	1.04(M)	LT
9 Acrolein	56	1.497	1.500	(0.367)	7432	20.0000	27.2	
10 1,1,2trichlorotrifluoroethane	101	1.547	1.547	(0.380)	2025	1.00000	0.869	
11 1,1-Dichloroethene	96	1.550	1.550	(0.380)	2309	1.00000	0.788(M)	NI
12 Acetone	43	1.564	1.564	(0.384)	6230	5.00000	4.46(M)	GT
13 Iodomethane	142	1.636	1.636	(0.401)	1244	2.00000	2.23(M)	NI
14 Carbon Disulfide	76	1.683	1.683	(0.413)	6506	1.00000	0.860	
15 Methyl Acetate	43	1.722	1.728	(0.423)	4334	1.00000	0.706(M)	NI
16 Acetonitrile	39	1.742	1.742	(0.427)	3480	1.00000	0.772(QM)	LT
17 allyl chloride	41	1.739	1.742	(0.427)	4613	2.00000	1.37(M)	LT
18 Methylene Chloride	84	1.817	1.817	(0.446)	2317	1.00000	0.390(QM)	GT
19 tert-Butyl Alcohol	59	1.856	1.861	(0.455)	639	2.00000	1.18(QM)	LT
20 Acrylonitrile	53	1.950	1.950	(0.479)	4925	4.00000	2.66(M)	LT
21 Methyl-tert-butyl ether	73	1.975	1.973	(0.485)	6248	1.00000	0.855	
22 1,2-Dichloroethene (trans)	96	1.984	1.981	(0.487)	2547	1.00000	0.625(Q)	
23 n-Hexane	57	2.153	2.156	(0.528)	2686	1.00000	0.755(M)	LT

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.273	2.270	(0.558)	13578	4.00000	4.74(M)	LT
	25 1,1-Dichloroethane	63	2.281	2.279	(0.560)	3846	1.00000	0.958(M)	NI
	26 Chloroprene	53	2.331	2.331	(0.572)	2967	1.00000	0.801(M)	NI
	147 Ethyl acetate	88	2.777	2.774	(0.681)	868	8.00000	5.80(QM)	NI
	27 2-Butanone	72	2.738	2.732	(0.672)	1276	5.00000	4.72(QM)	NI
	28 1,2-Dichloroethene (cis)	96	2.738	2.740	(0.672)	2599	1.00000	0.901	
	29 2,2-Dichloropropane	77	2.749	2.746	(0.674)	1952	1.00000	0.526(M)	NI
	30 Propionitrile	54	2.791	2.788	(0.685)	167	1.00000	0.149(QM)	NI
	31 Methacrylonitrile	41	2.938	2.932	(0.721)	2014	1.00000	0.567(M)	LT
	32 Bromochloromethane	49	2.971	2.971	(0.729)	1837	1.00000	0.864	
	33 Tetrahydrofuran	42	3.002	2.985	(0.737)	1682	1.00000	0.394(M)	NI
	34 Chloroform	83	3.083	3.077	(0.756)	3998	1.00000	0.761	
$	35 Dibromofluoromethane (S)	113	3.250	3.252	(0.797)	67658	50.0000	49.9	
	36 1,1,1-Trichloroethane	97	3.236	3.247	(0.794)	3308	1.00000	0.809	
	37 cyclohexane	56	3.316	3.325	(0.814)	4082	1.00000	0.760(M)	LT
	146 n-butyl chloride	56	3.383	3.325	(0.830)	4352	1.00000	0.683(M)	NI
	38 Carbon Tetrachloride	117	3.422	3.419	(0.840)	2848	1.00000	0.952(M)	NI
	39 1,1-Dichloropropene	75	3.428	3.430	(0.841)	2700	1.00000	0.927(M)	NI
	40 Benzene	78	3.670	3.667	(0.900)	8181	1.00000	0.906	
	41 1,2-Dichloroethane	62	3.762	3.756	(0.923)	2847	1.00000	0.877(M)	NI
	42 2,2,4-Trimethylpentane	57	3.842	3.839	(0.943)	5279	1.00000	0.735(M)	LT
	43 Isobutyl alcohol	43	3.784	3.606	(0.928)	18672	1.00000	0.812(M)	NI
	148 Isopropyl acetate	61	3.787	3.784	(0.929)	3624	4.00000	3.35	
*	44 Fluorobenzene	96	4.076	4.070	(1.000)	239294	50.0000		
	45 Trichloroethene	95	4.535	4.532	(1.113)	1687	1.00000	0.642(QM)	LT
	46 Methylcyclohexane	55	4.788	4.799	(1.175)	3692	1.00000	0.710(M)	LT
	47 1,2-Dichloropropane	63	4.847	4.849	(1.189)	2353	1.00000	1.12(M)	NI
	48 Dibromomethane	93	4.950	4.947	(1.214)	1525	1.00000	0.779	
	49 Methyl methacrylate	69	4.983	4.966	(1.222)	1737	1.00000	0.997(QM)	LT
	50 1,4-Dioxane	88	4.961	4.952	(1.217)	452	20.0000	14.8(QM)	NI
	51 Bromodichloromethane	83	5.175	5.175	(1.270)	2761	1.00000	0.781(M)	NI
	52 2-Chloroethyl vinyl ether	63	5.545	5.537	(0.753)	1811	2.00000	2.05(M)	NI
	53 cis-1,3-Dichloropropene	75	5.678	5.678	(0.771)	2438	1.00000	0.703	
	54 4-Methyl-2-Pentanone	43	5.862	5.854	(0.796)	11444	5.00000	4.73(M)	LT
$	55 Toluene-d8	98	5.951	5.951	(0.808)	254414	50.0000	50.4	
	56 Toluene	91	6.029	6.023	(0.818)	10450	1.00000	0.978	
	57 trans-1,3-Dichloropropene	75	6.321	6.318	(0.858)	2632	1.00000	0.871(M)	NI
	58 Ethyl Methacrylate	69	6.413	6.407	(0.870)	2711	1.00000	0.593(M)	NI
	59 1,1,2-Trichloroethane	83	6.519	6.516	(0.885)	1697	1.00000	0.828(M)	NI
	60 Tetrachloroethene	166	6.569	6.566	(0.892)	2558	1.00000	0.936	
	61 1,3-Dichloropropane	76	6.669	6.666	(0.905)	3675	1.00000	1.17(Q)	
	62 2-Hexanone	43	6.755	6.741	(0.917)	8344	5.00000	5.27(M)	NI
	63 Dibromochloromethane	129	6.869	6.864	(0.932)	2302	1.00000	0.946	
	64 1,2-Dibromoethane	107	6.961	6.956	(0.945)	1907	1.00000	0.878	
*	65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	206349	50.0000		
	66 Chlorobenzene	112	7.395	7.392	(1.004)	6023	1.00000	0.903(Q)	
	67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	2156	1.00000	0.954(M)	WP
	68 Ethylbenzene	106	7.490	7.487	(1.017)	3214	1.00000	0.890	
	69 m&p-Xylene	106	7.598	7.598	(1.031)	8131	2.00000	1.95(Q)	
	70 o-Xylene	106	7.907	7.899	(1.073)	4024	1.00000	1.01	
	71 Styrene	104	7.927	7.918	(1.076)	6545	1.00000	1.06	
	72 Bromoform	173	8.055	8.057	(0.883)	1843	1.00000	0.781(M)	NI
	73 Isopropylbenzene	105	8.188	8.182	(1.111)	9715	1.00000	0.866(M)	LT
$	74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	98892	50.0000	51.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	149 n-amyl acetate	70	8.080	8.071	(1.097)	6487	4.00000	3.80(M)	NI
	75 Bromobenzene	77	8.405	8.405	(1.141)	4053	1.00000	0.782	
	76 1,1,2,2-Tetrachloroethane	83	8.433	8.425	(0.925)	3075	1.00000	0.912(M)	NI
	77 trans-1,4-Dichloro-2-butene	53	8.455	8.450	(1.148)	554	1.00000	0.422(QM)	NI
	78 1,2,3-Trichloropropane	110	8.461	8.458	(0.928)	948	1.00000	0.915(QM)	NI
	79 n-Propylbenzene	91	8.491	8.489	(0.931)	10081	1.00000	0.839(M)	LT
	80 2-Chlorotoluene	91	8.550	8.544	(0.937)	6135	1.00000	0.679	
	81 1,3,5-Trimethylbenzene	105	8.625	8.622	(0.946)	7924	1.00000	0.828	
	82 4-Chlorotoluene	126	8.639	8.633	(0.947)	2785	1.00000	0.998(Q)	
	83 tert-Butylbenzene	119	8.836	8.834	(0.969)	9823	1.00000	0.936	
	84 1,2,4-Trimethylbenzene	105	8.884	8.875	(0.974)	8410	1.00000	0.832(M)	LT
	85 sec-Butylbenzene	105	8.989	8.987	(0.986)	9090	1.00000	0.792(M)	LT
	86 1,3-Dichlorobenzene	146	9.073	9.067	(0.995)	5129	1.00000	0.922	
	87 p-Isopropyltoluene	119	9.095	9.092	(0.997)	8305	1.00000	0.943	
*	88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	126361	50.0000		
	89 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	5873	1.00000	0.808	
	90 1,2-Dichlorobenzene	146	9.373	9.368	(1.028)	4832	1.00000	0.853	
	91 n-Butylbenzene	91	9.362	9.359	(1.027)	6330	1.00000	0.784(M)	LT
	92 1,2-Dibromo-3-chloropropane	155	9.877	9.874	(1.083)	735	1.00000	1.11(M)	NI
	93 1,2,4-Trichlorobenzene	180	10.378	10.372	(1.138)	2897	1.00000	0.807(M)	NI
	94 Hexachlorobutadiene	225	10.456	10.453	(1.146)	1486	1.00000	1.35(M)	NI
	95 Naphthalene	128	10.545	10.533	(1.156)	9692	1.00000	0.873	
	96 1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	2796	1.00000	0.812(M)	NI
	97 2,methyl-naphthalene	142	11.237	11.226	(1.232)	4211	1.00000	0.846(M)	WP
	98 1-Methylnaphthalene	142	11.357	11.349	(1.245)	3758	1.00000	0.812	

QC Flag Legend

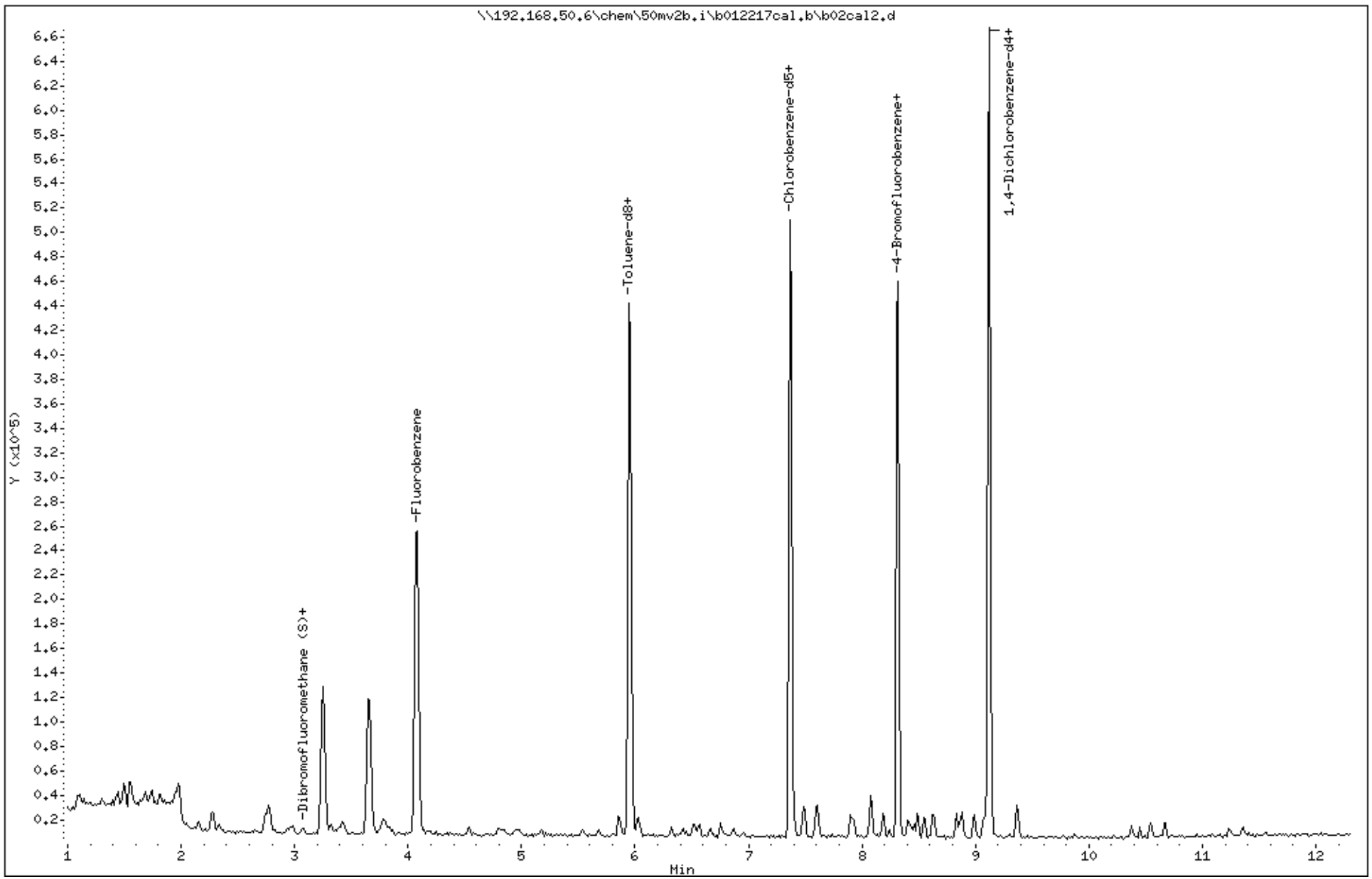
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b02cal2.d
Date : 22-JAN-2017 22:43
Client ID: 8260-CAL2
Sample Info: 8260-CAL2,140427:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



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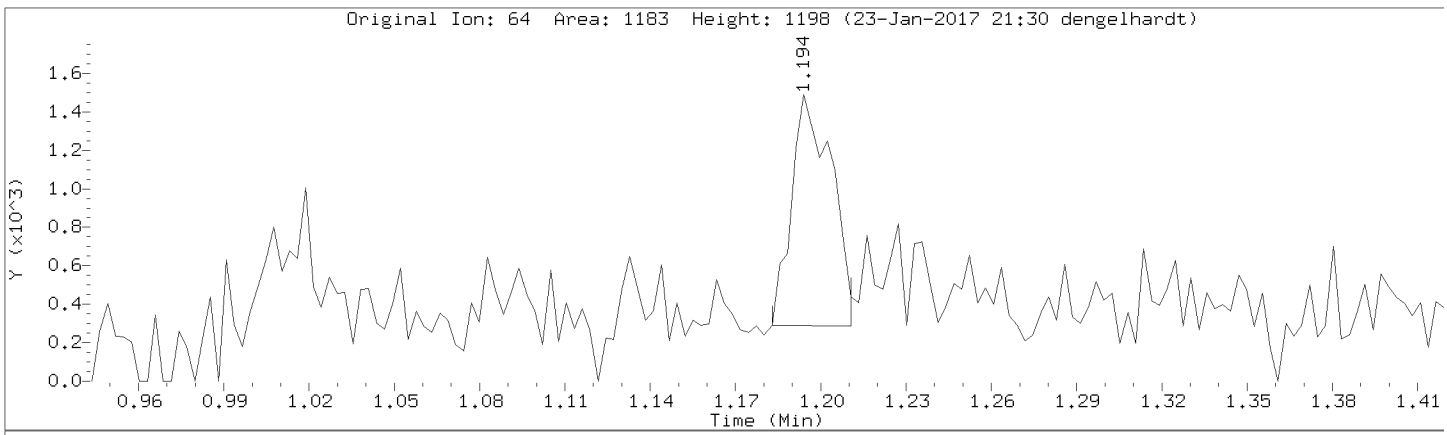
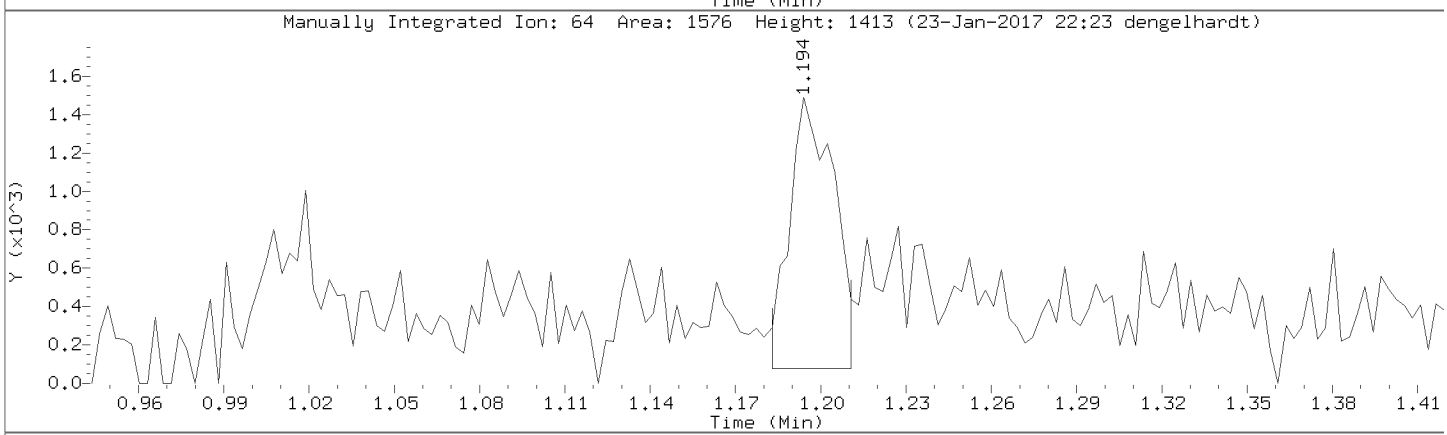
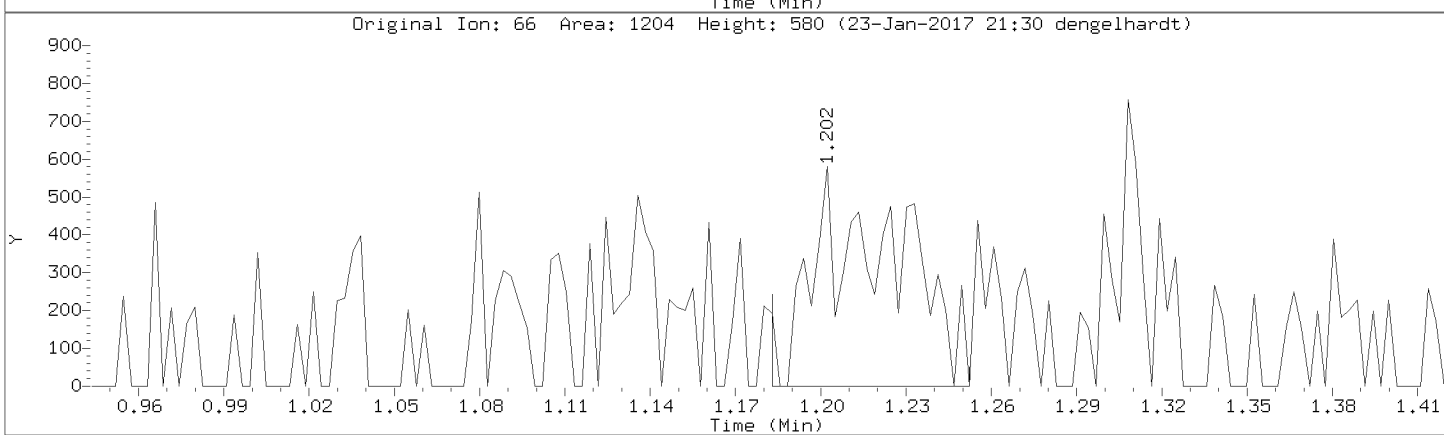
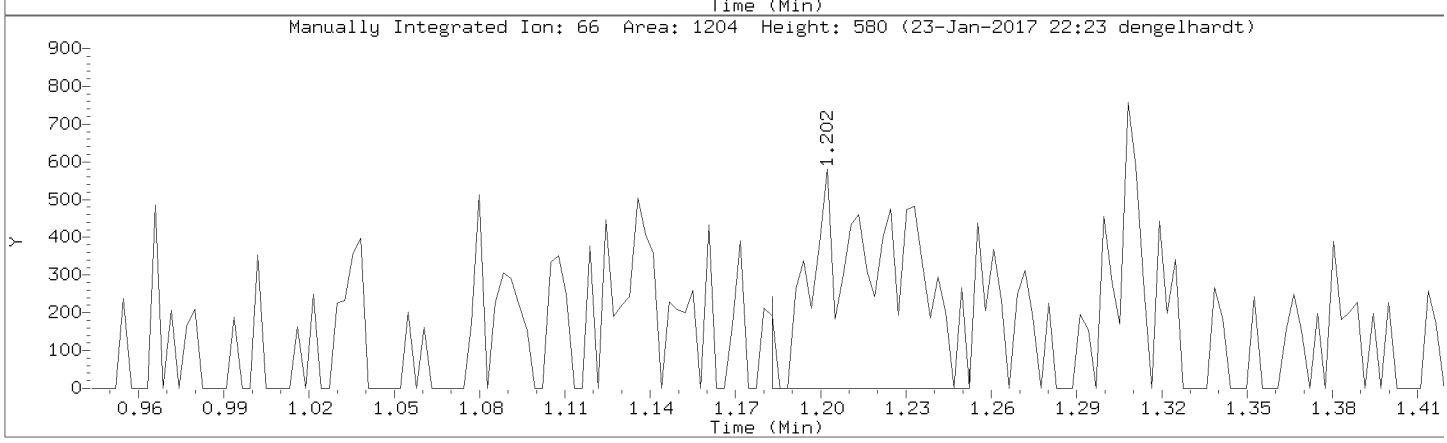
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Chloroethane Review Code: LT
CAS Number: 75-00-3









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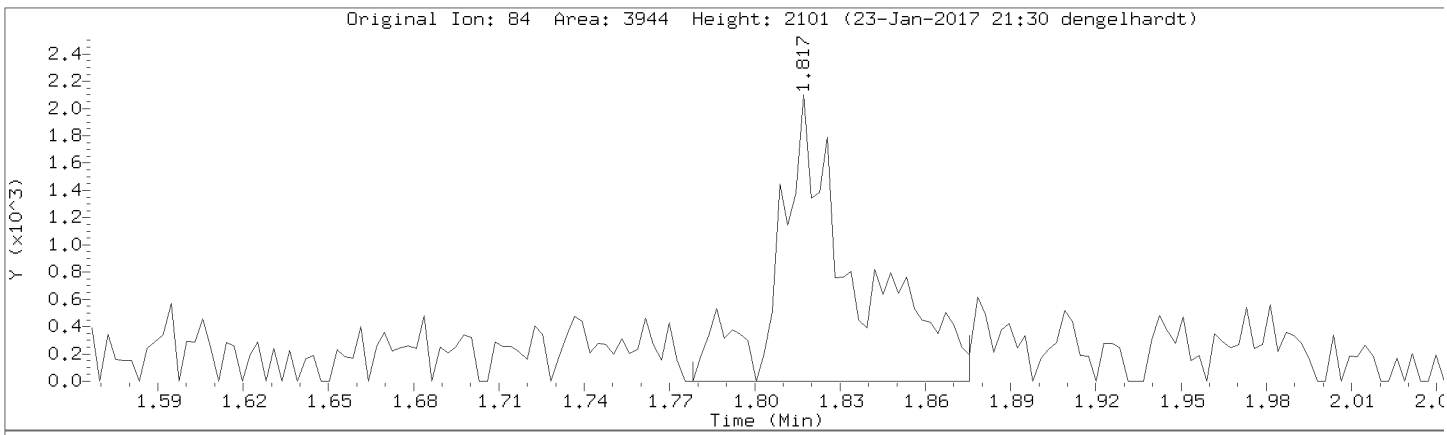
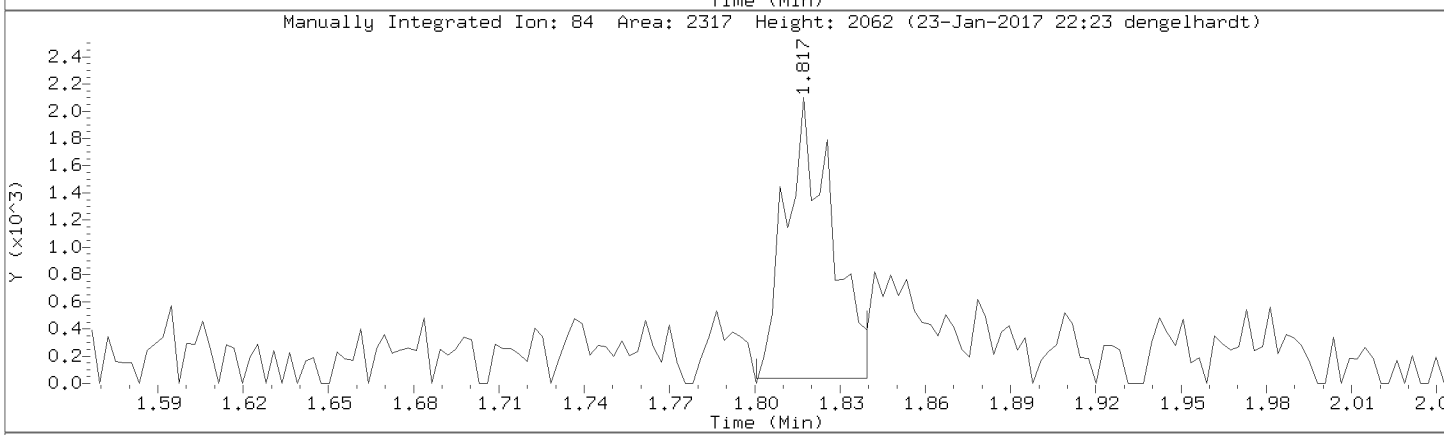
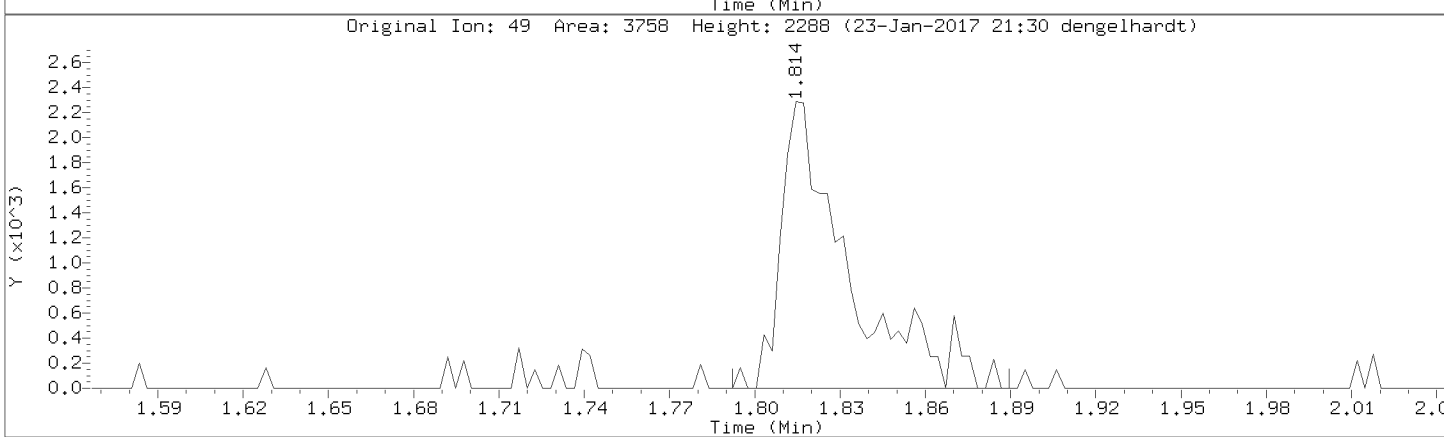
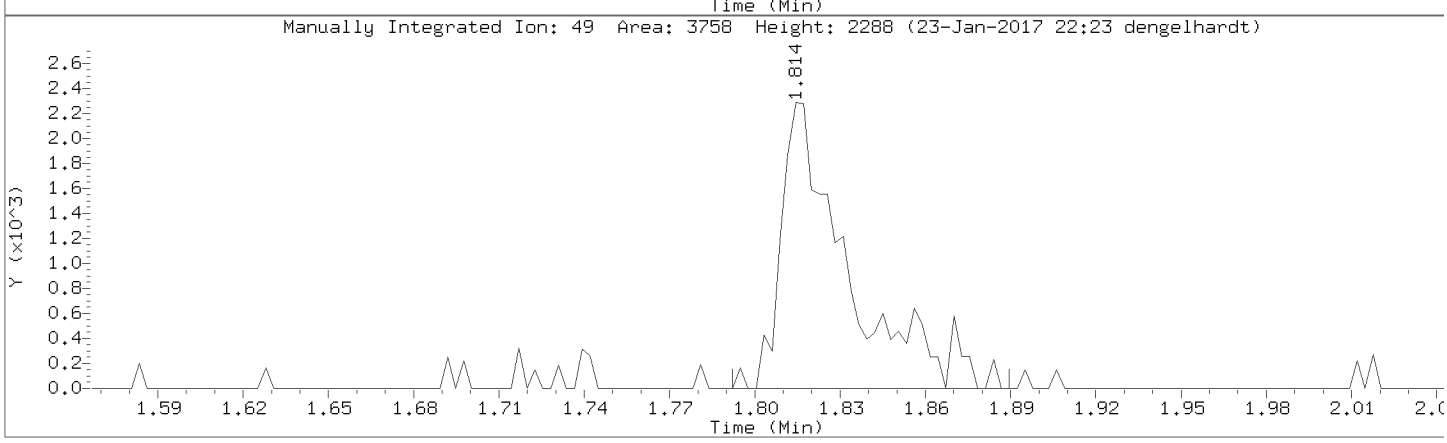
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Methylene Chloride Review Code: GT
CAS Number: 75-09-2









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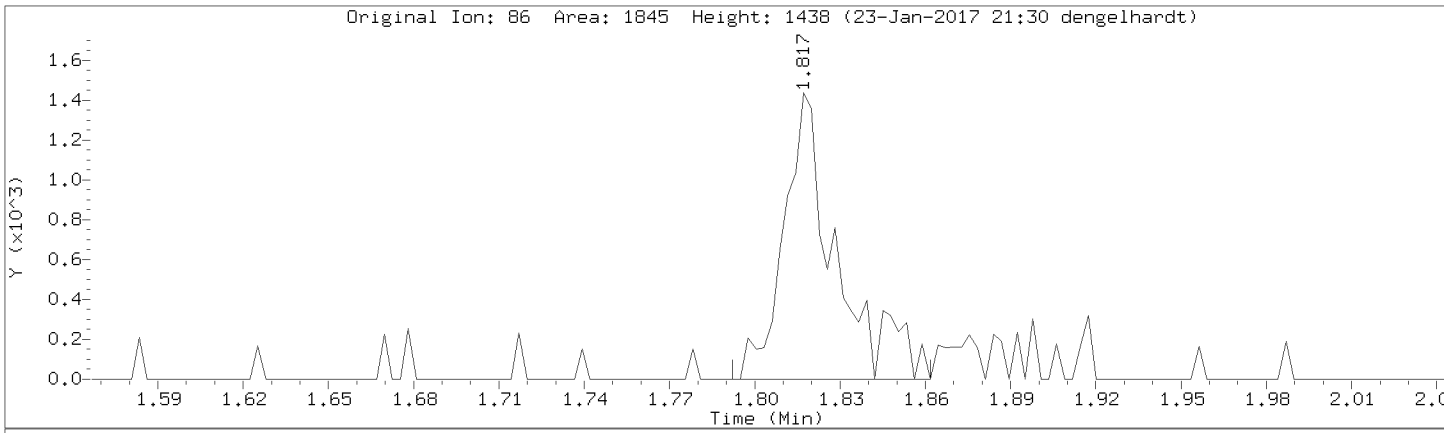
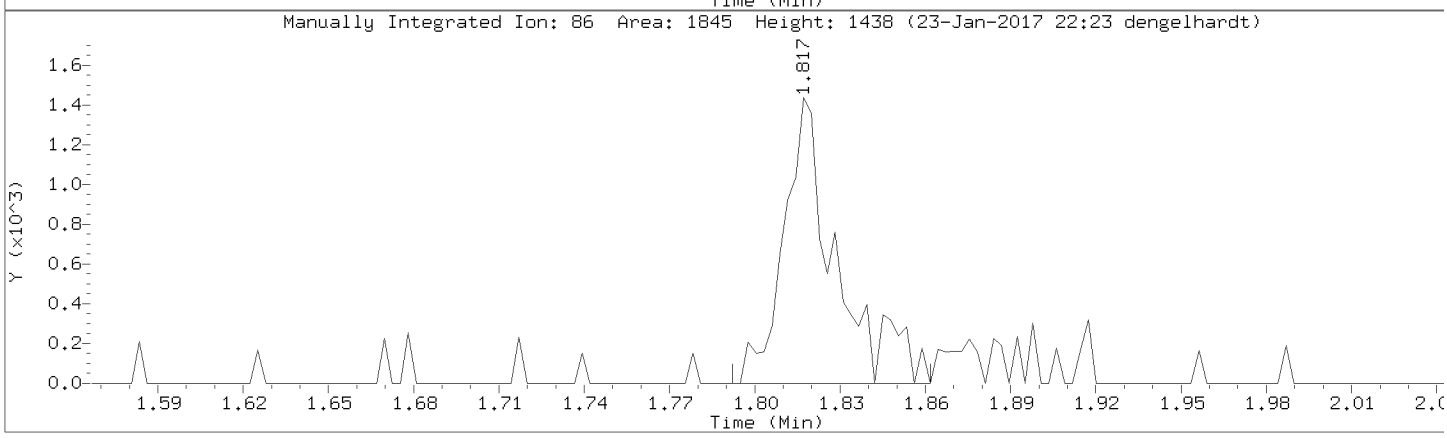
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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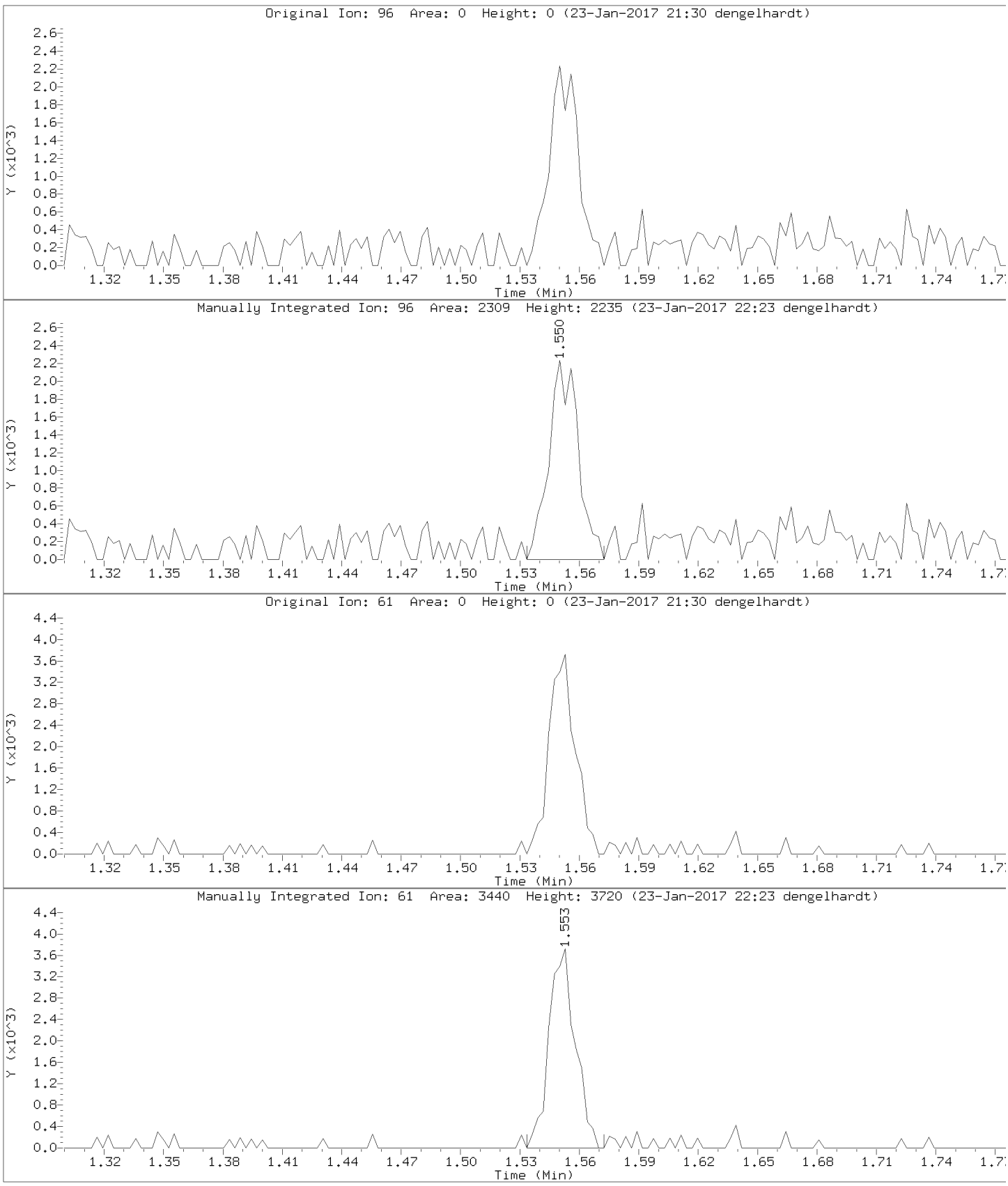
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethene Review Code: NI
CAS Number: 75-35-4



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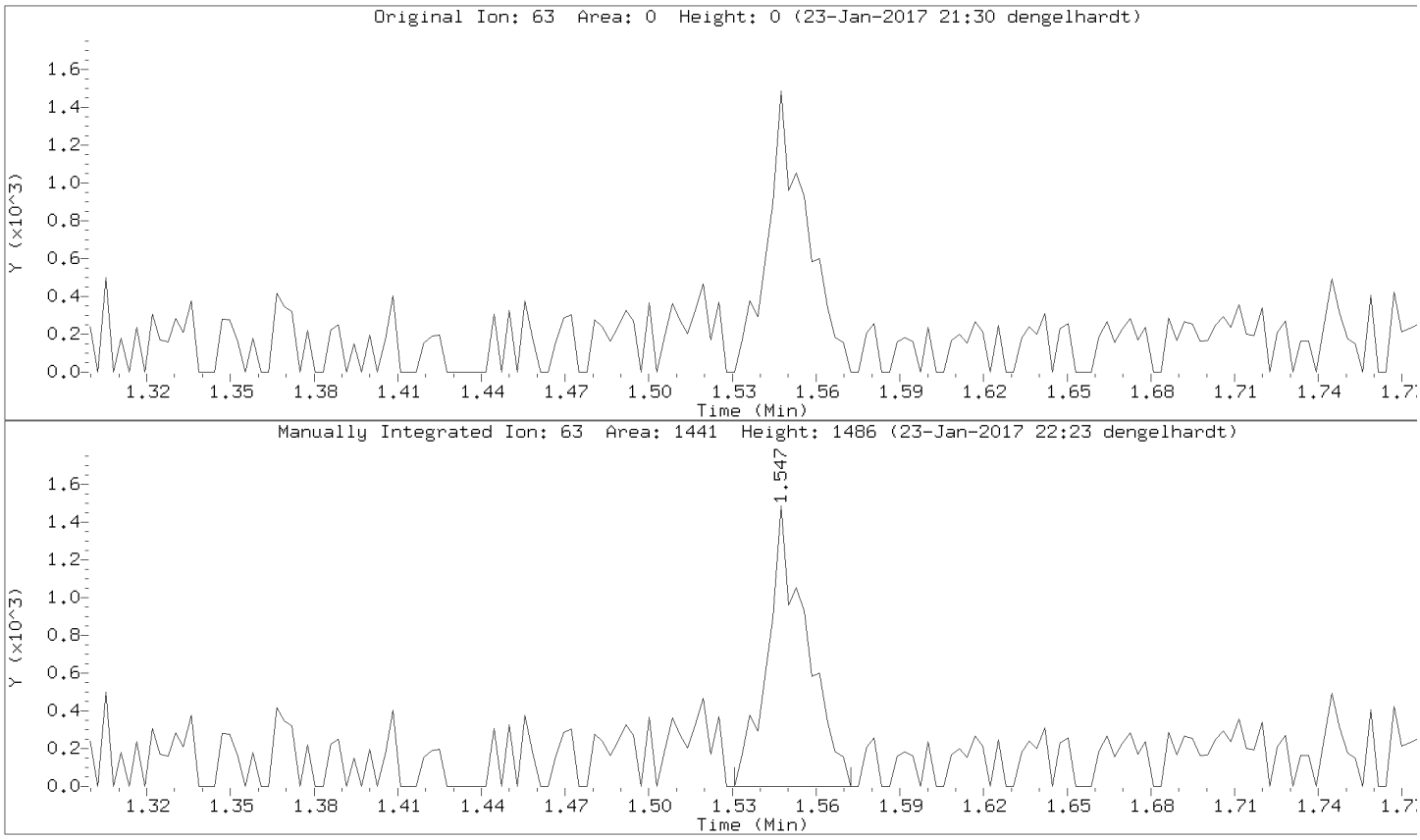
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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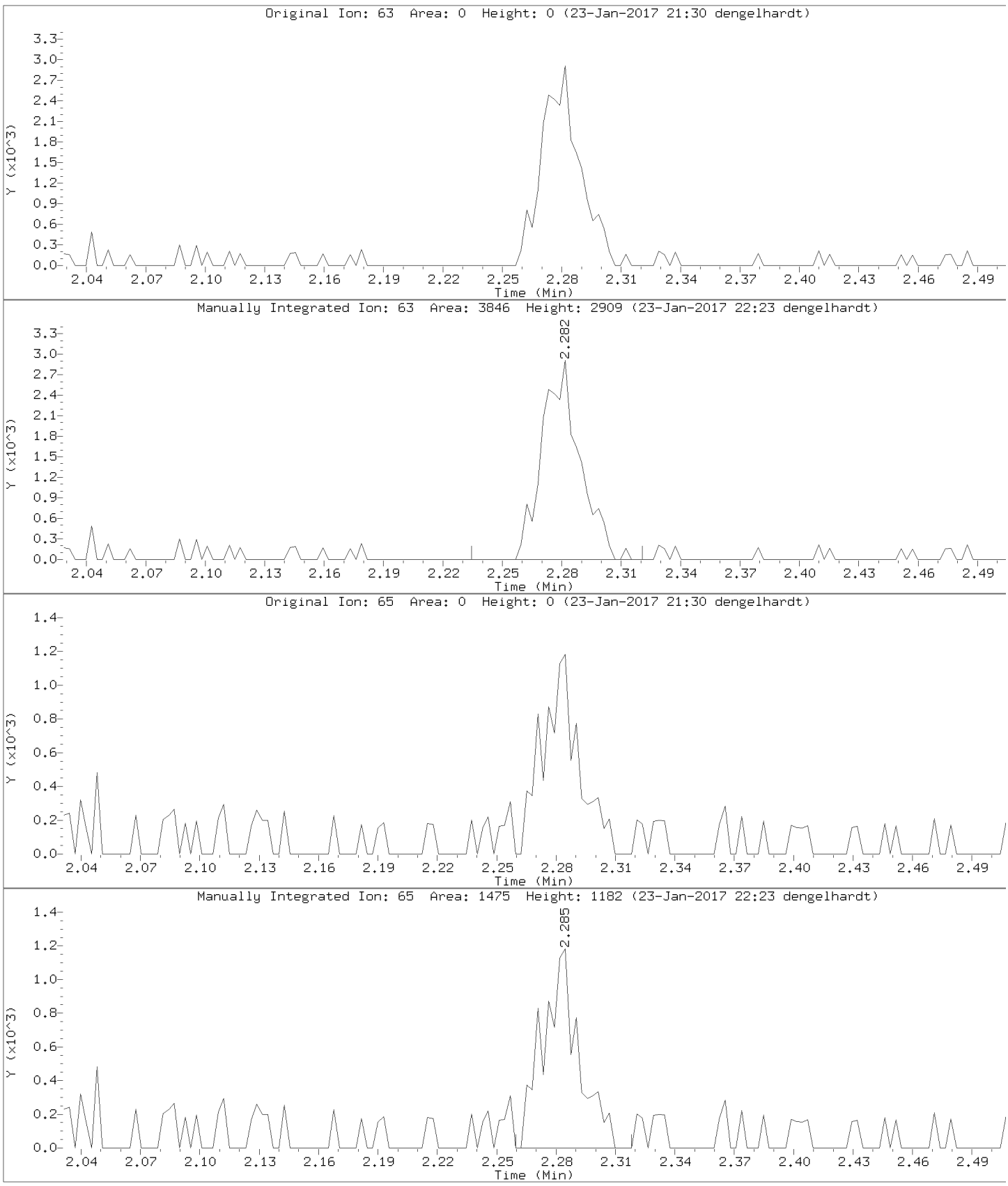
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3



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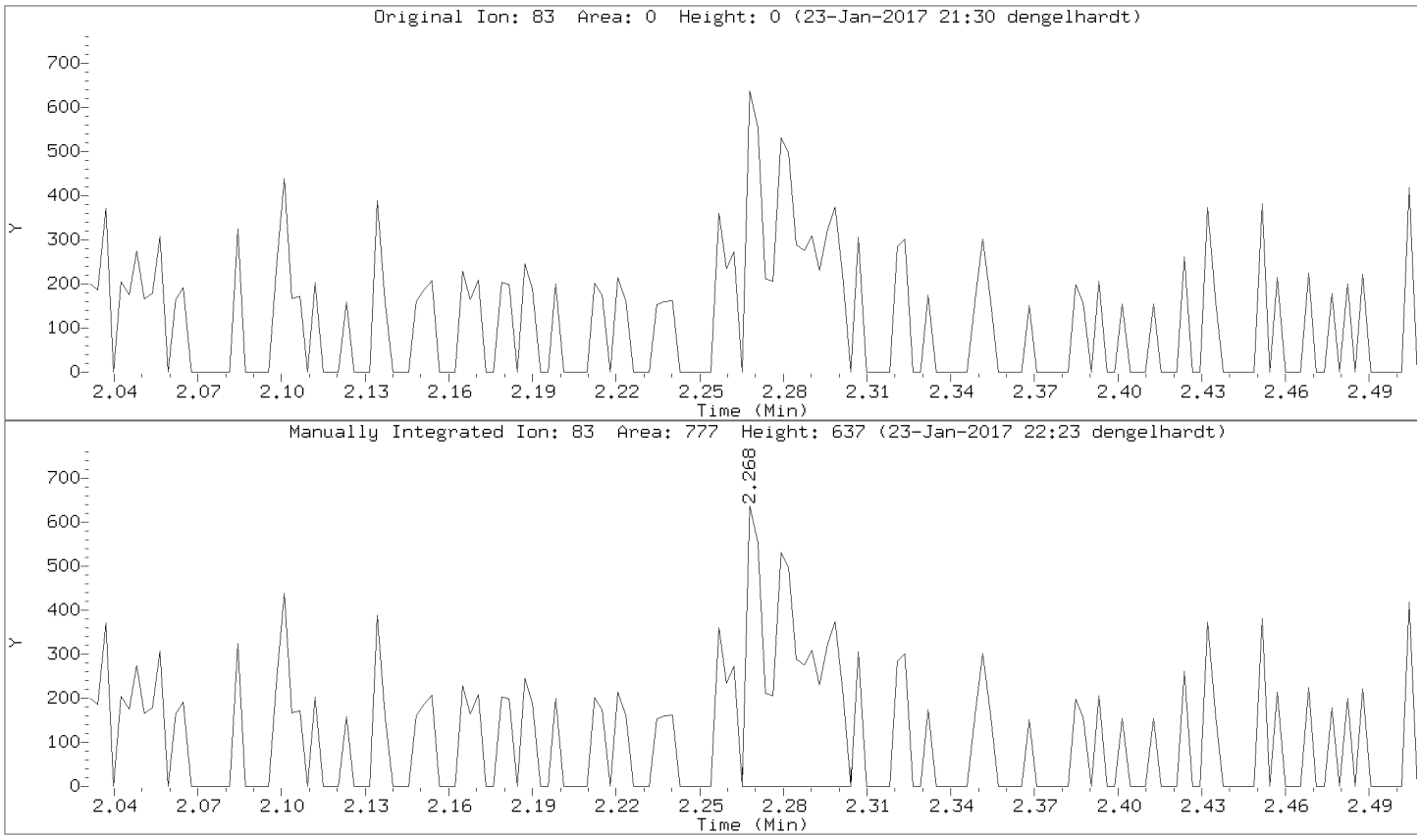
Lab Sample ID: 8260-CAL2



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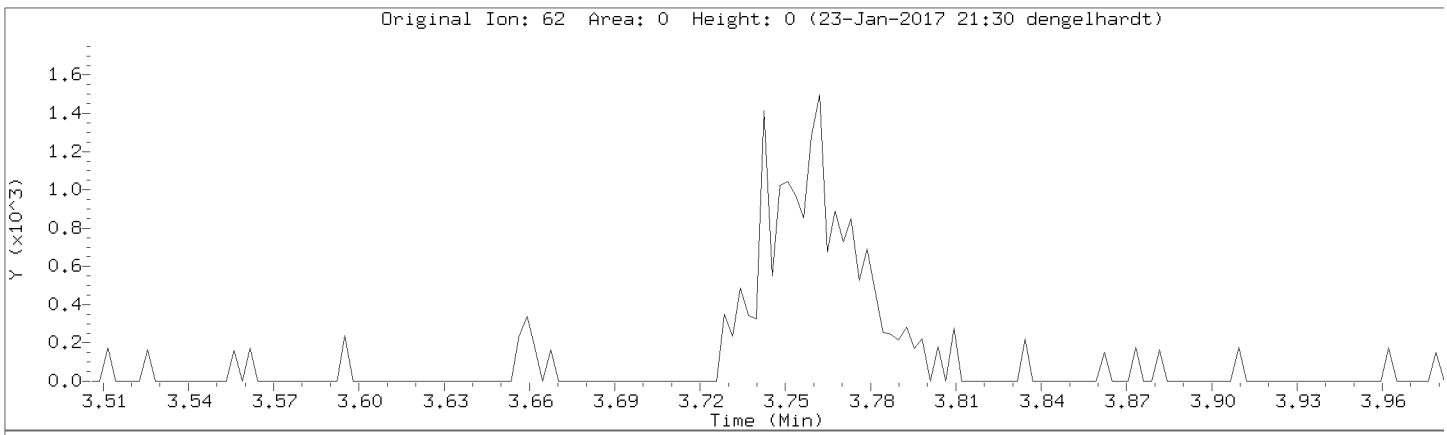
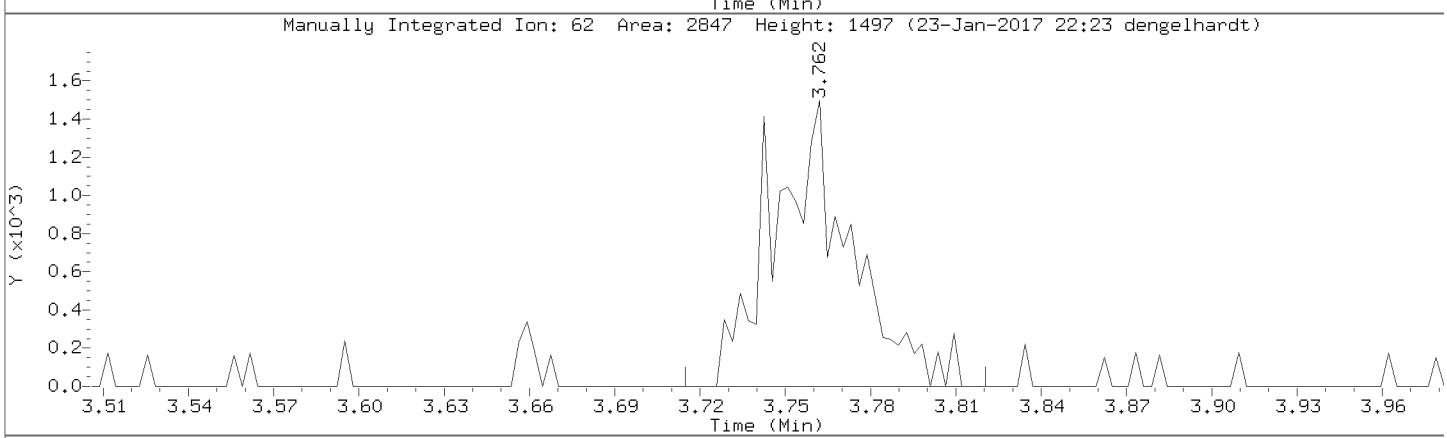
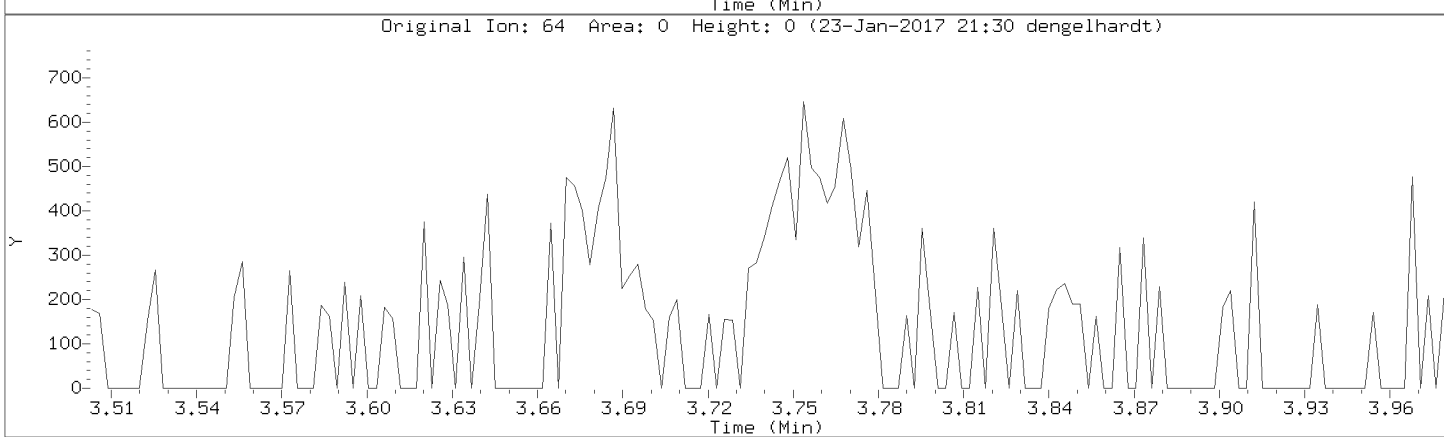
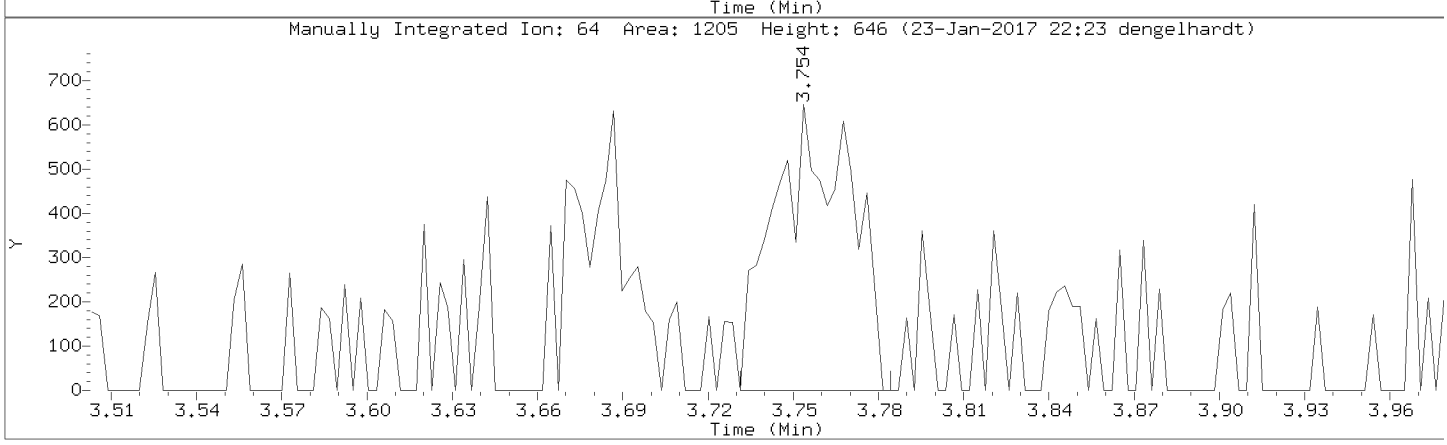
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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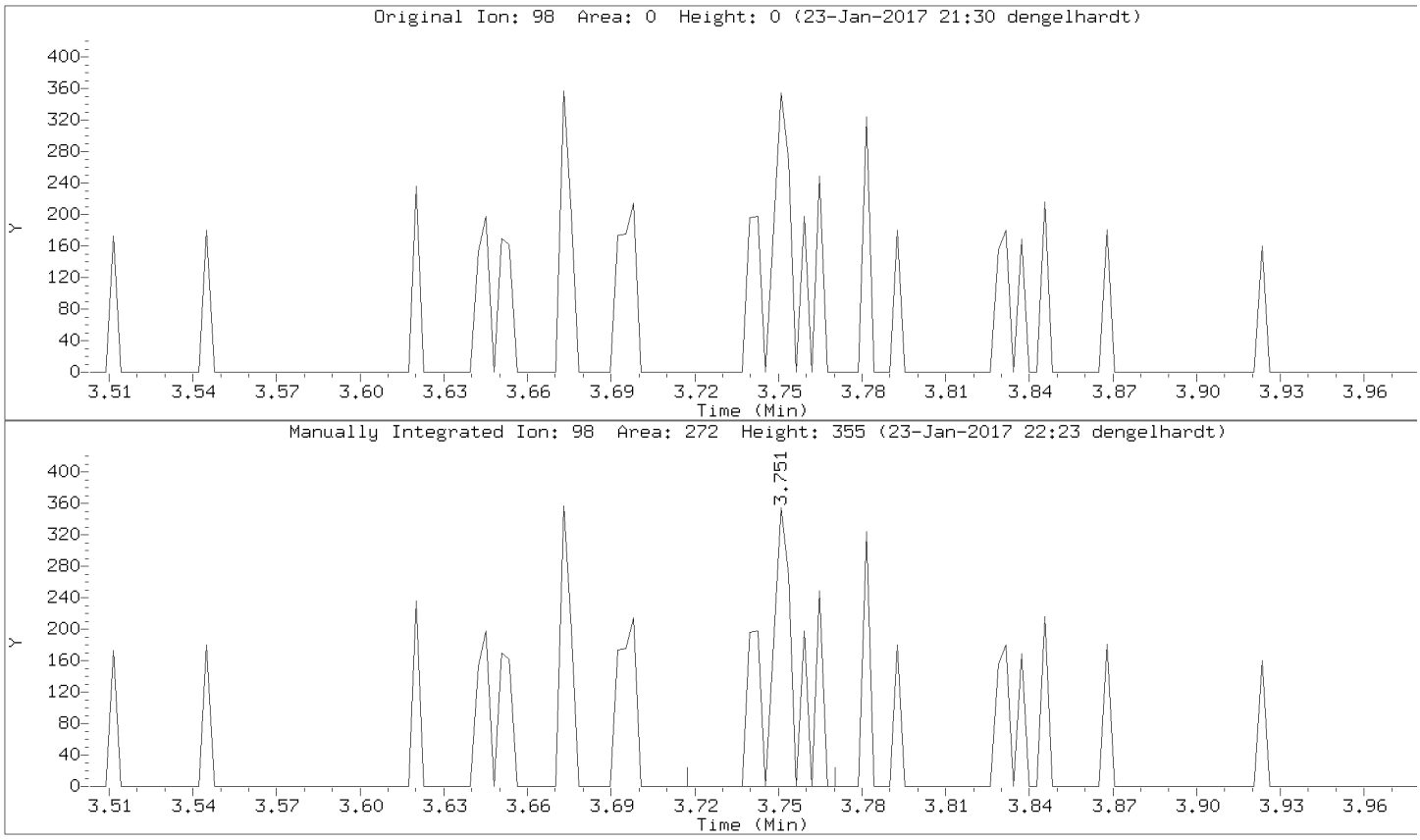
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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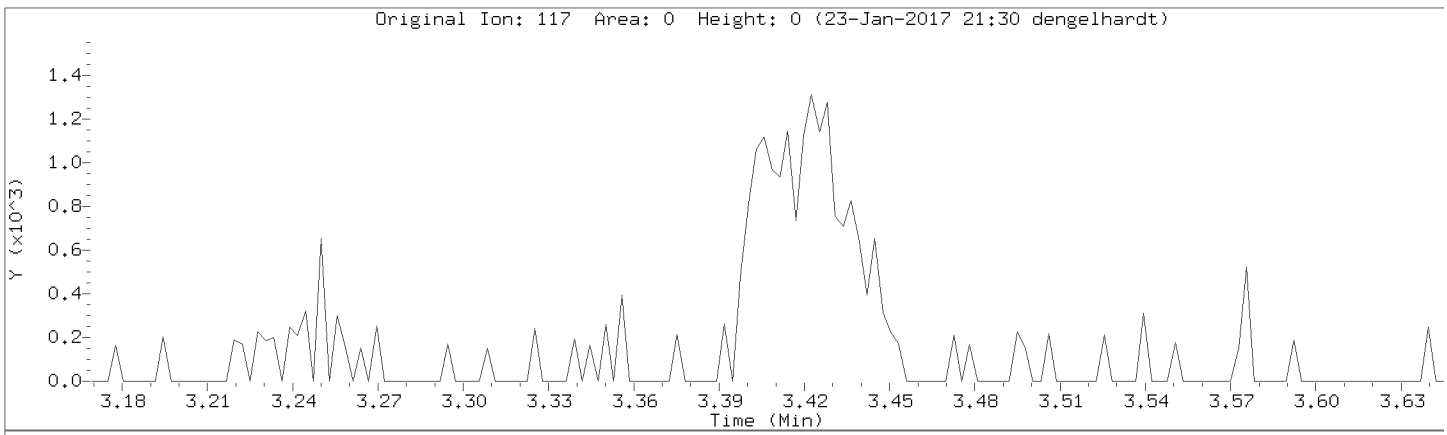
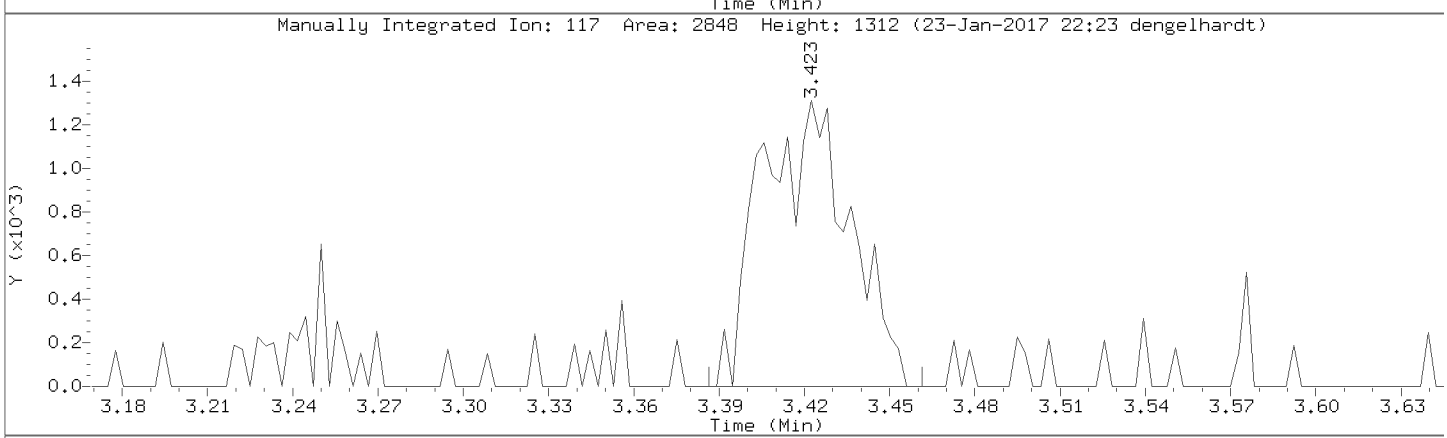
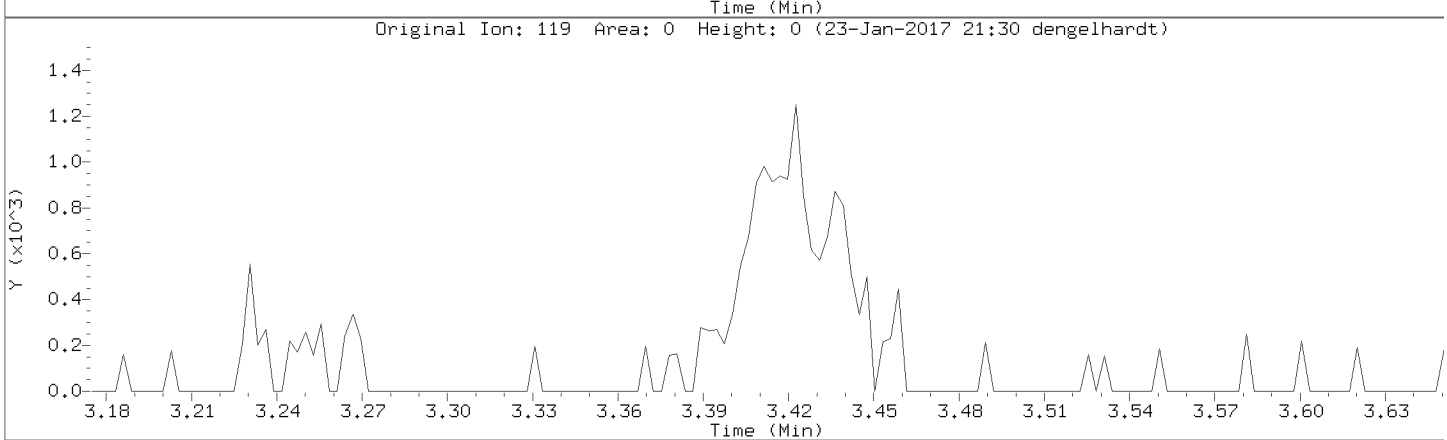
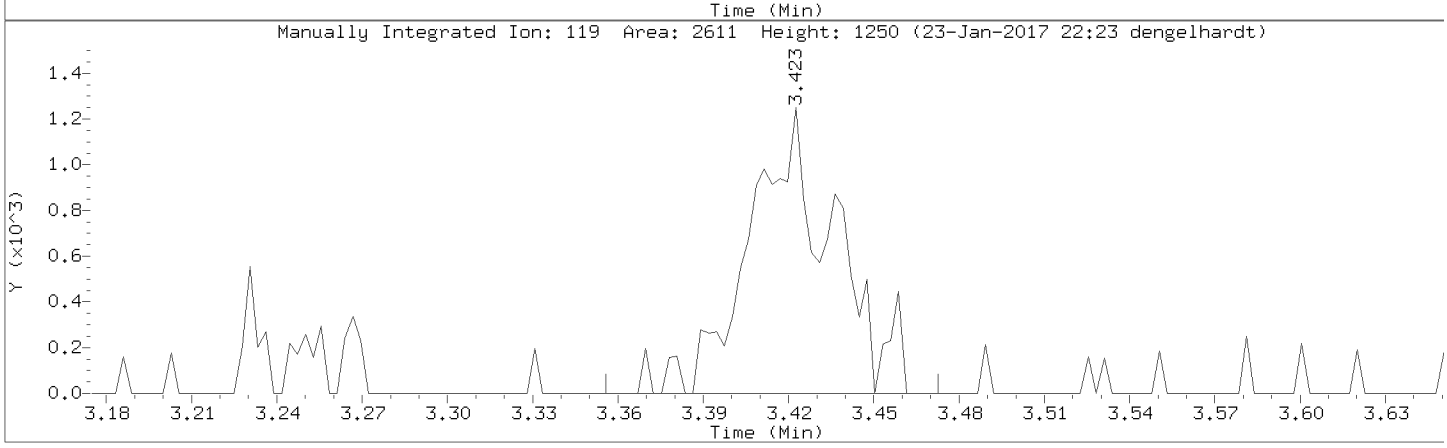
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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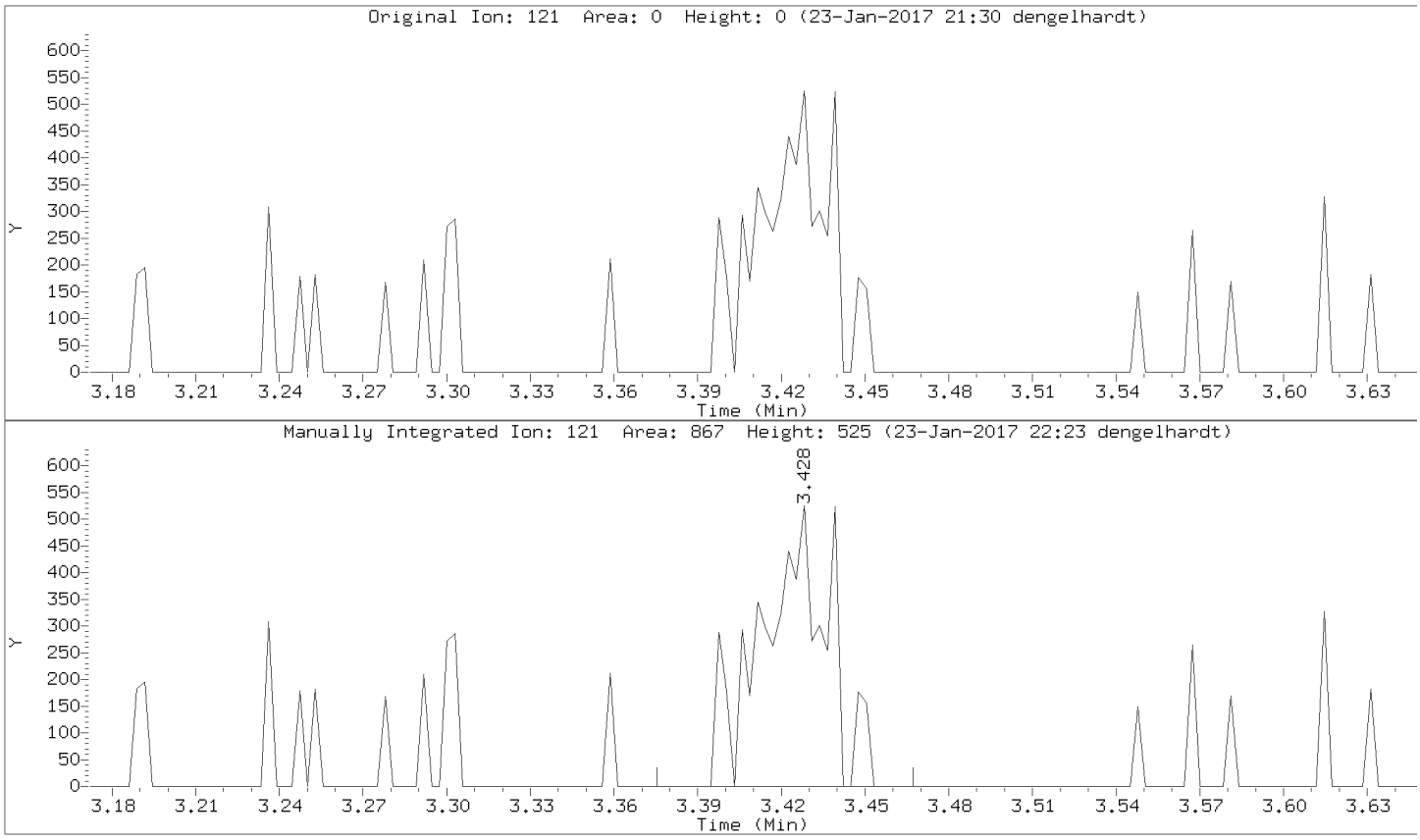
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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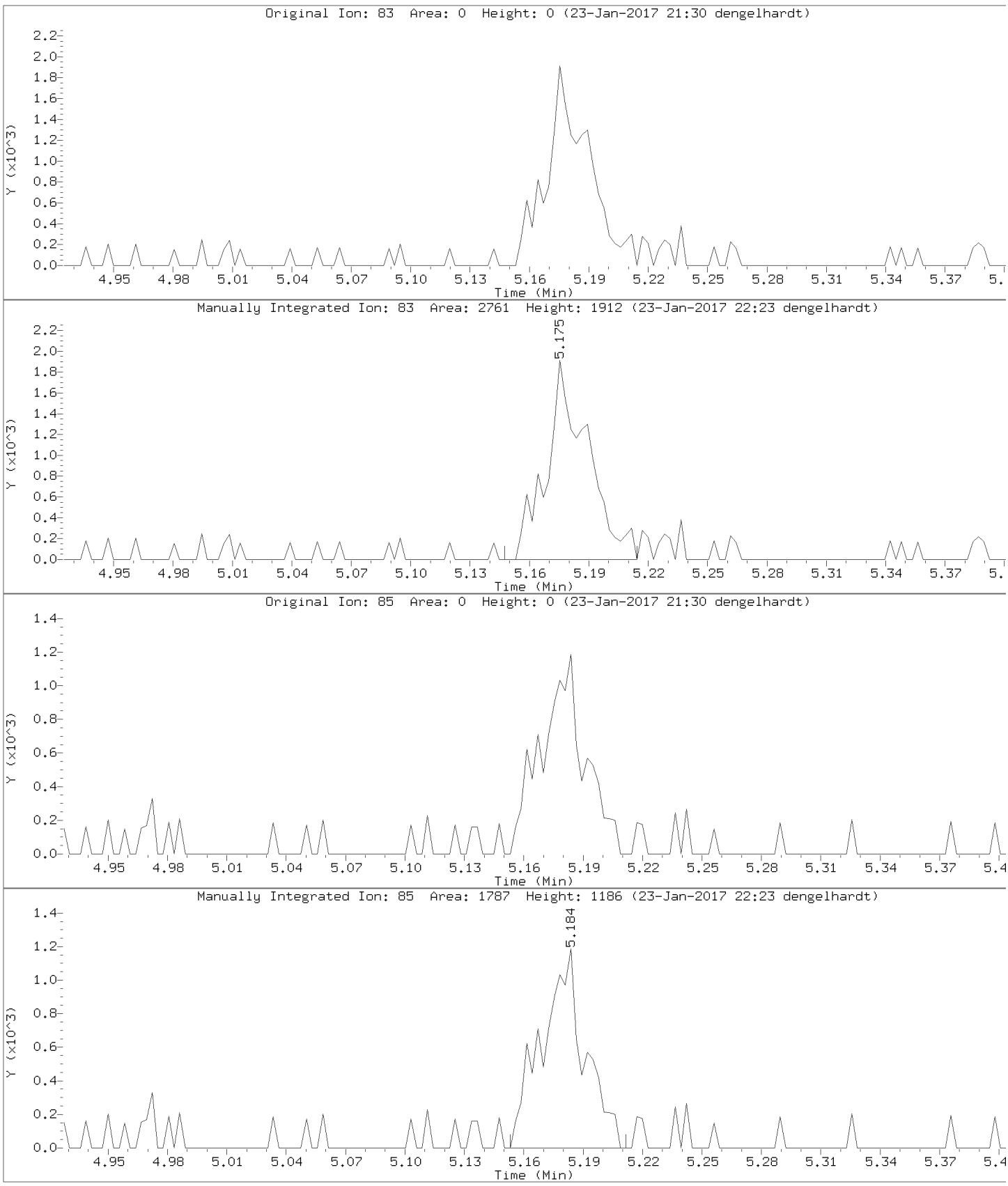
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4



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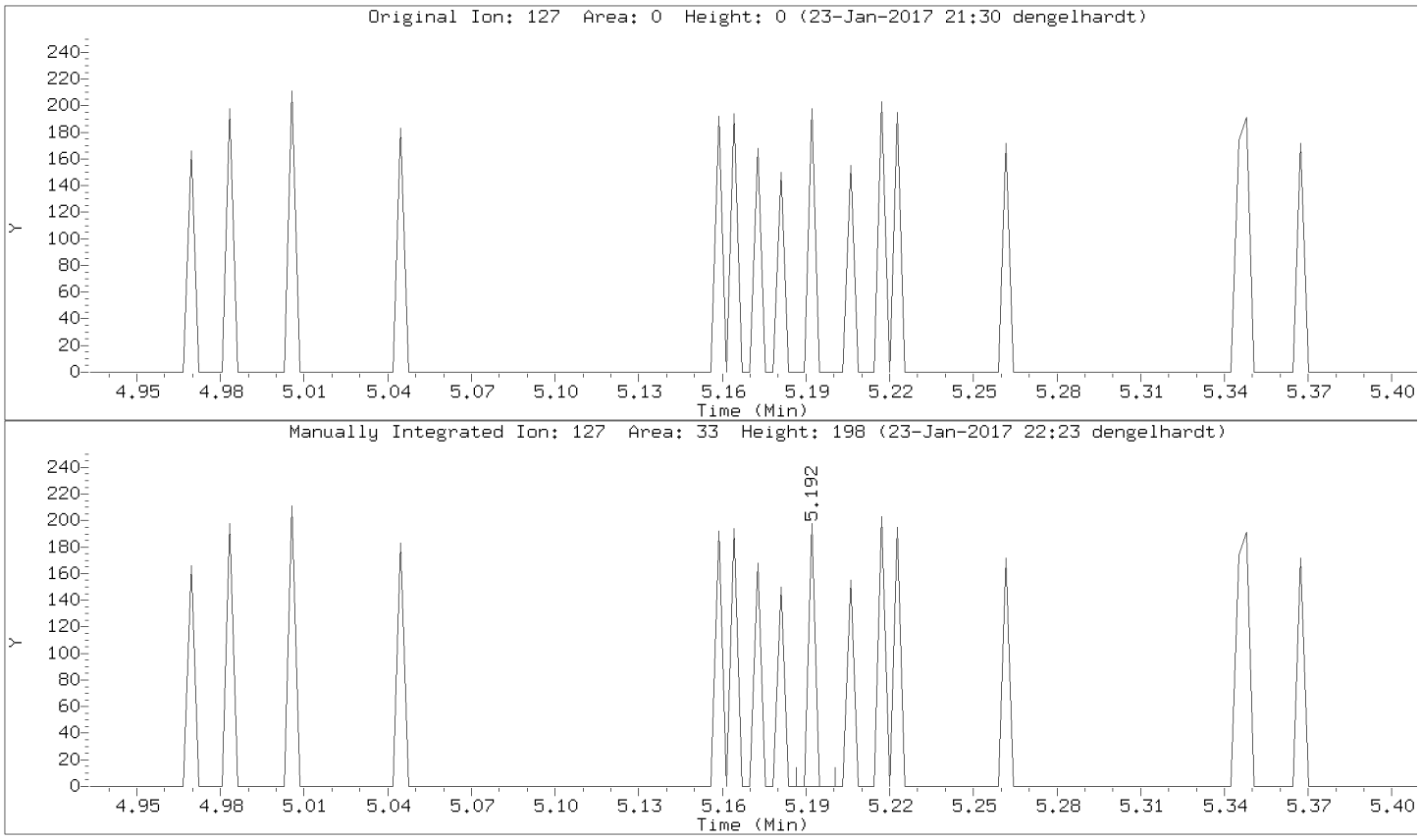
Lab Sample ID: 8260-CAL2



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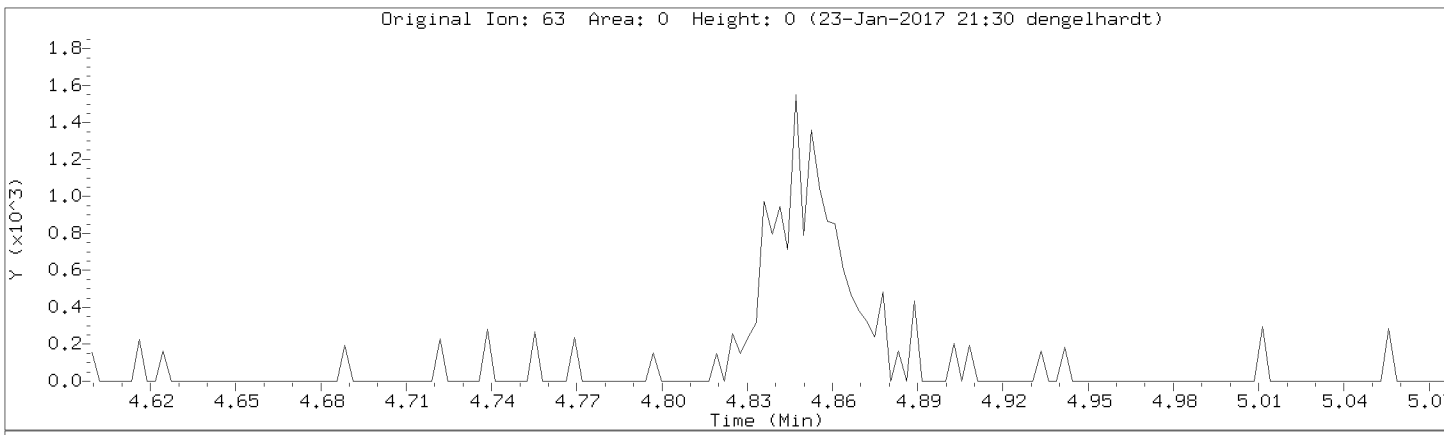
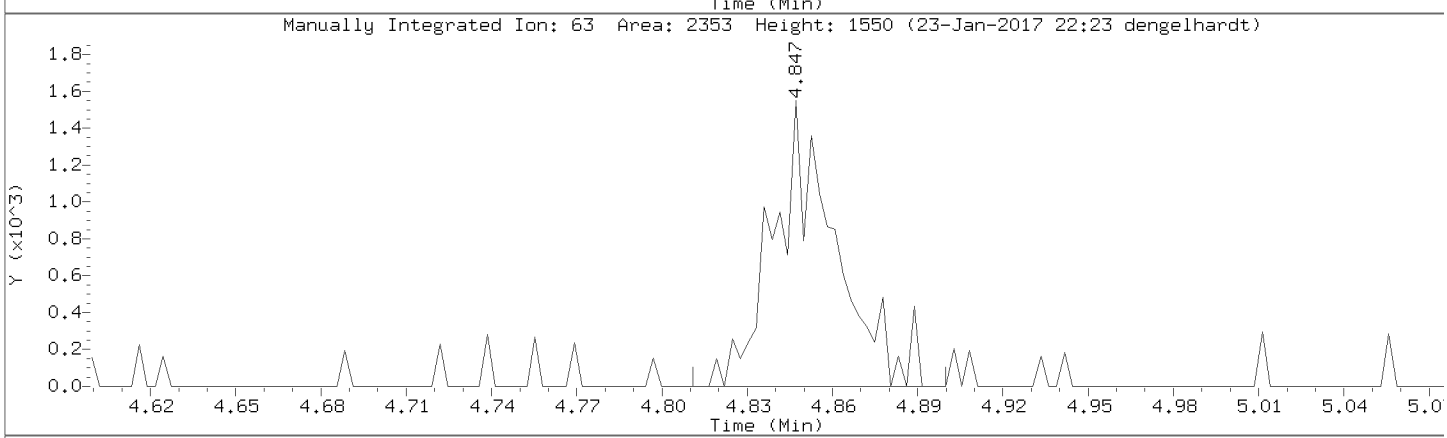
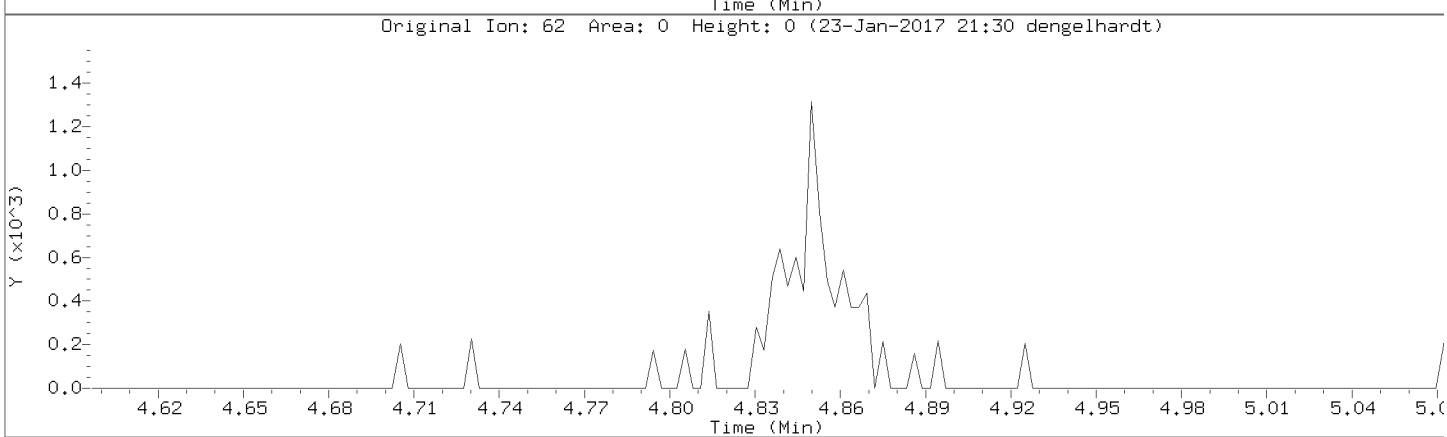
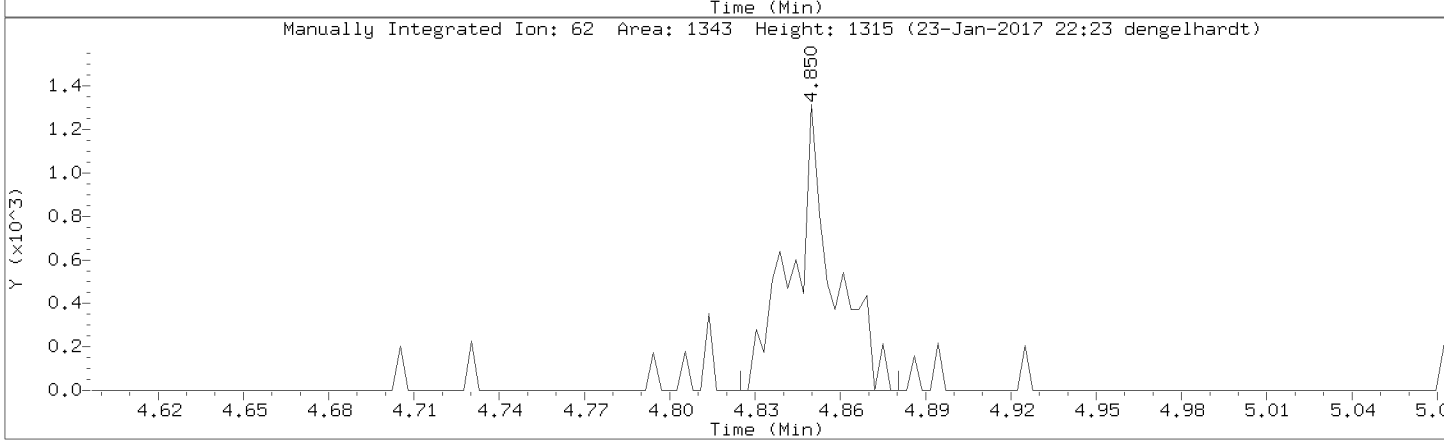
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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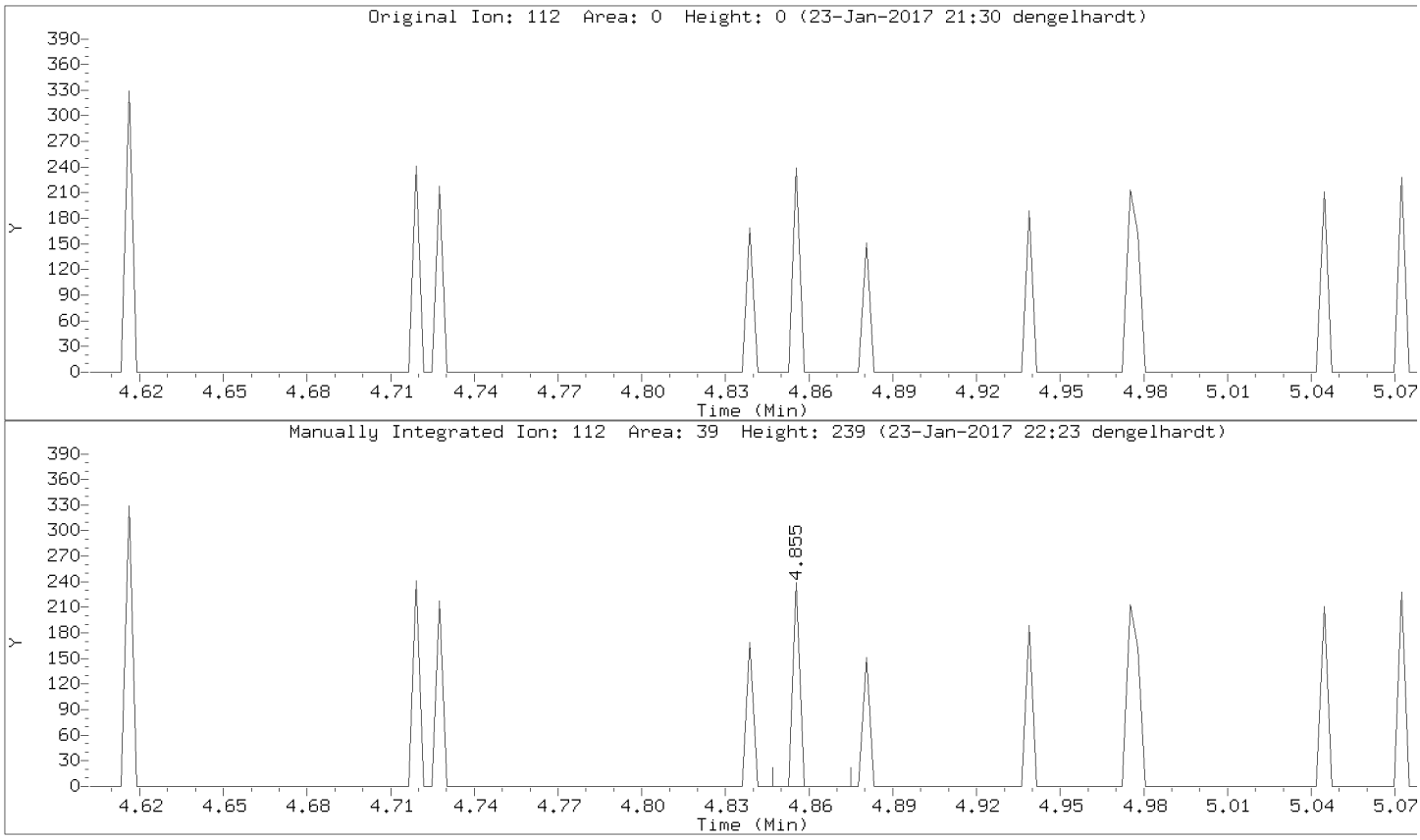
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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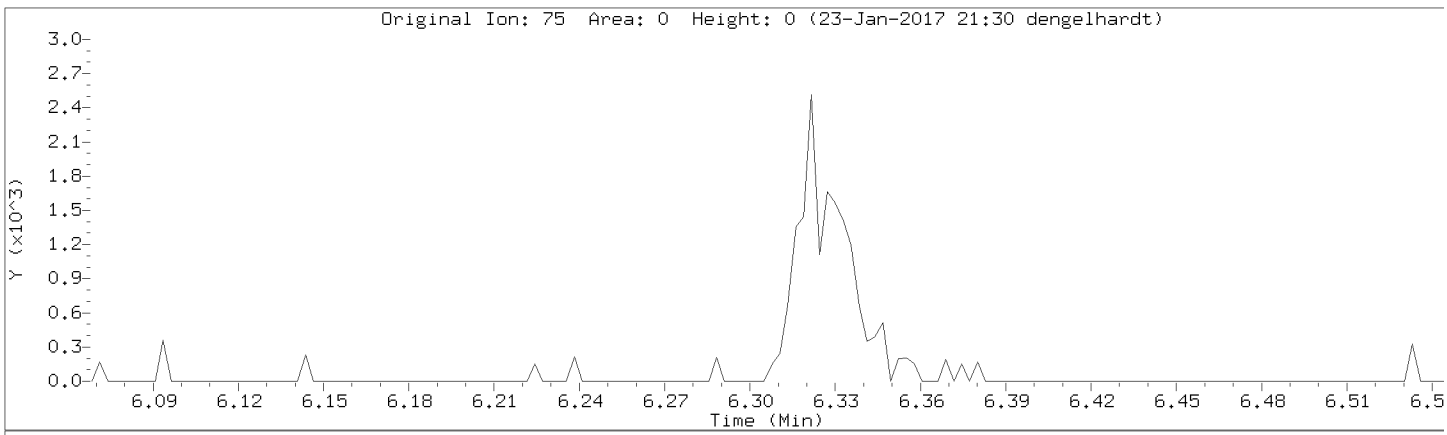
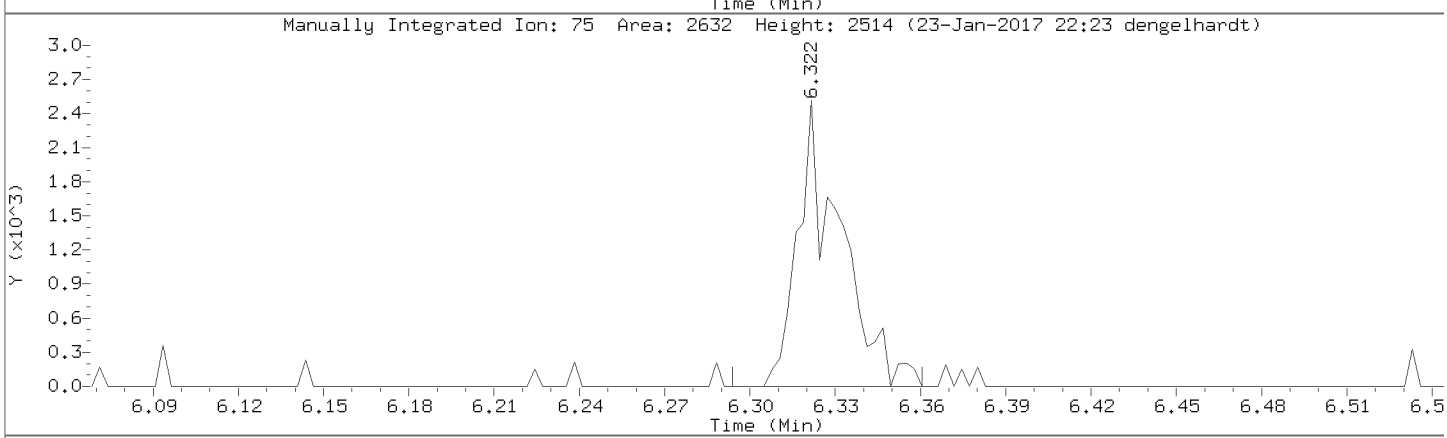
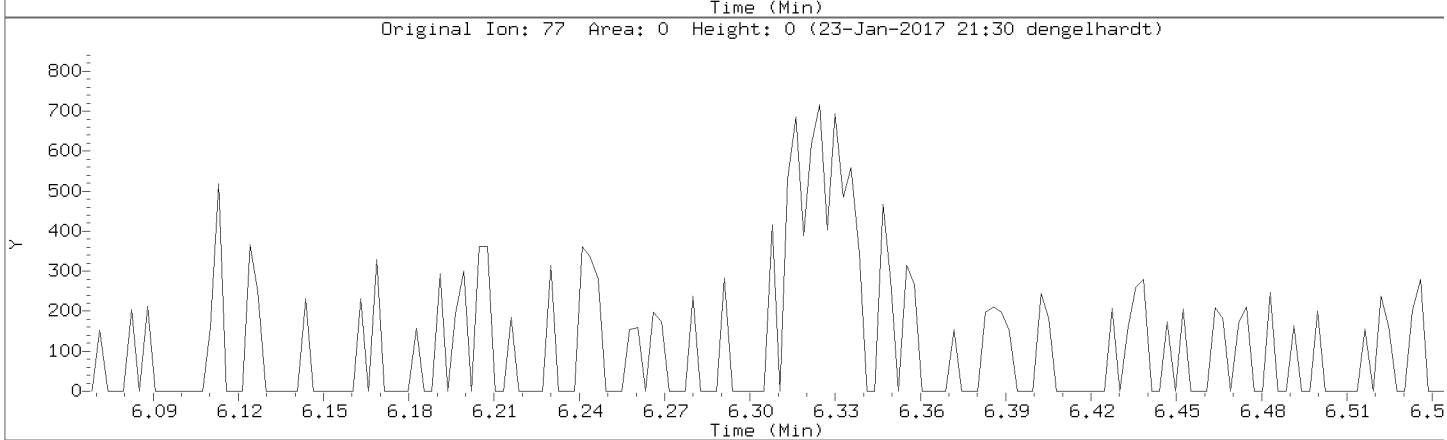
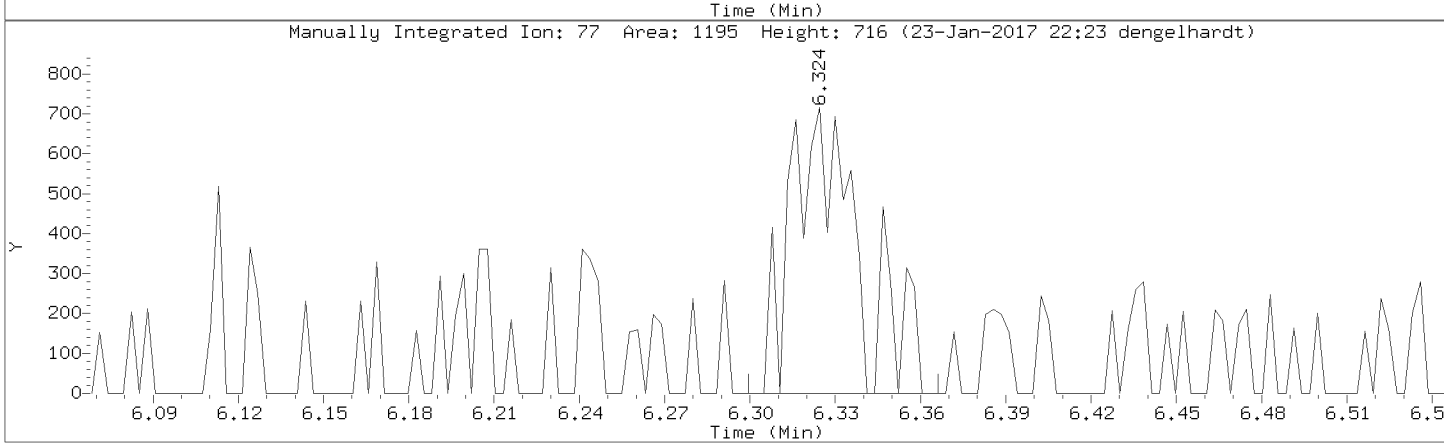
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,3-Dichloropropene Review Code: NI
CAS Number: 10061-02-6









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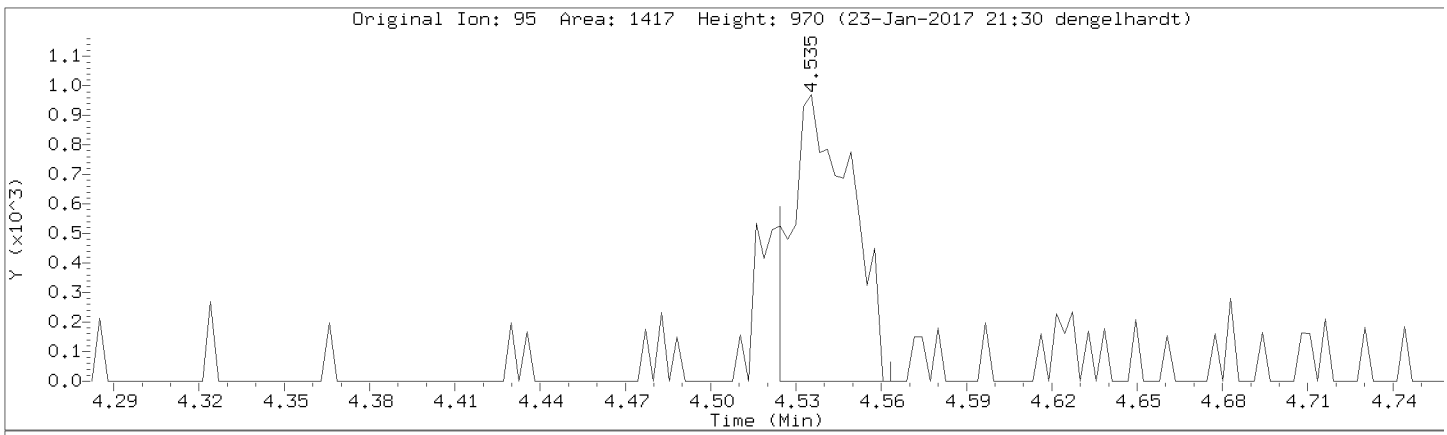
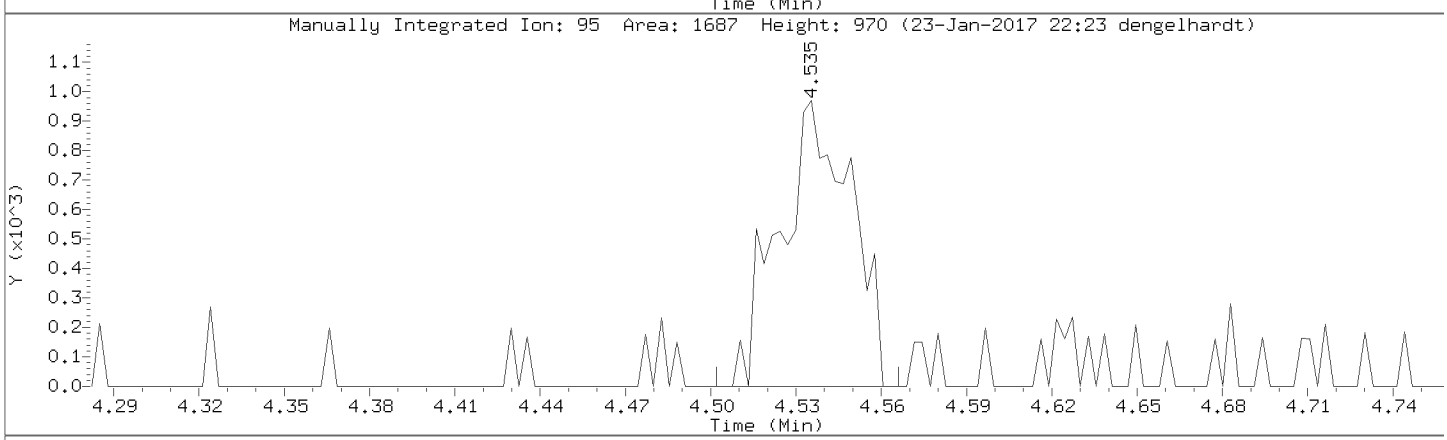
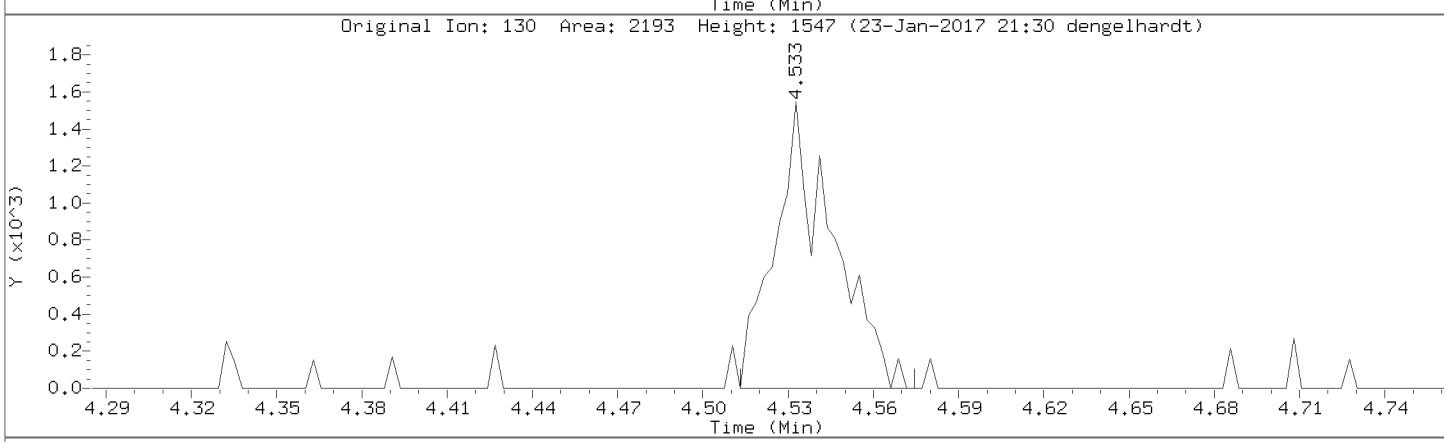
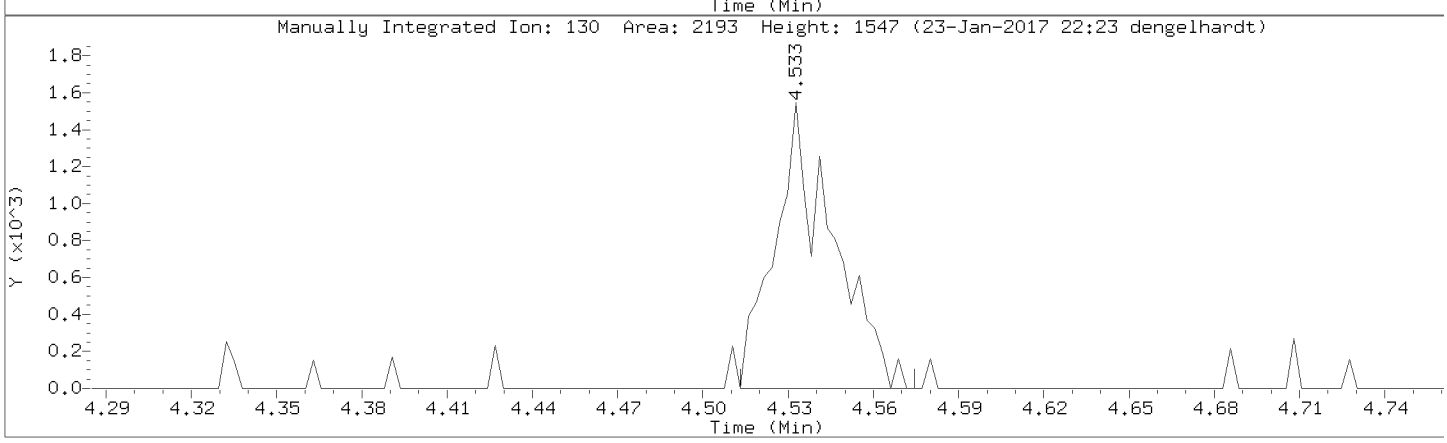
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Trichloroethene Review Code: LT
CAS Number: 79-01-6









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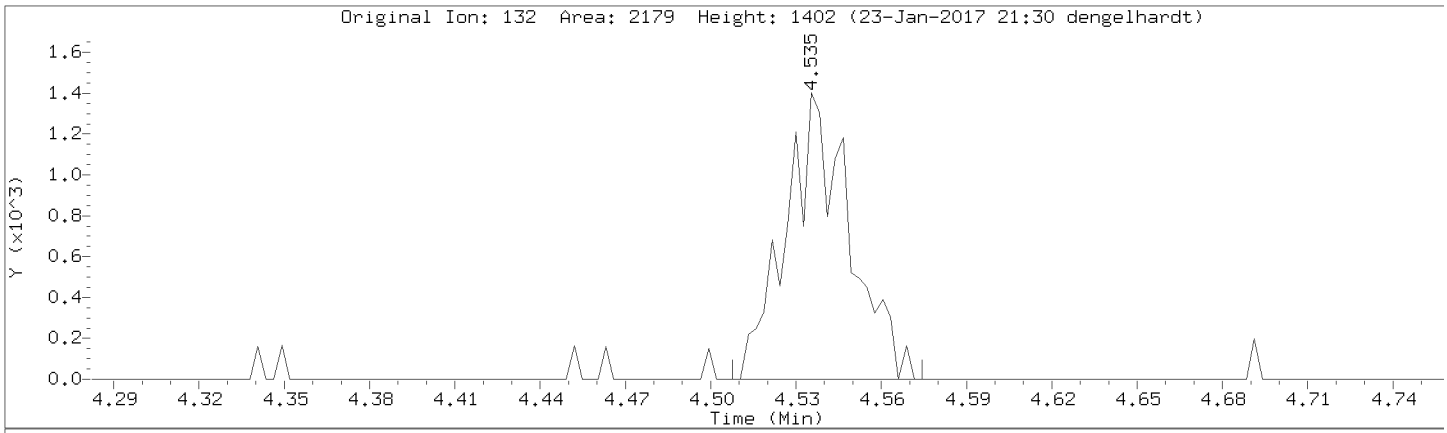
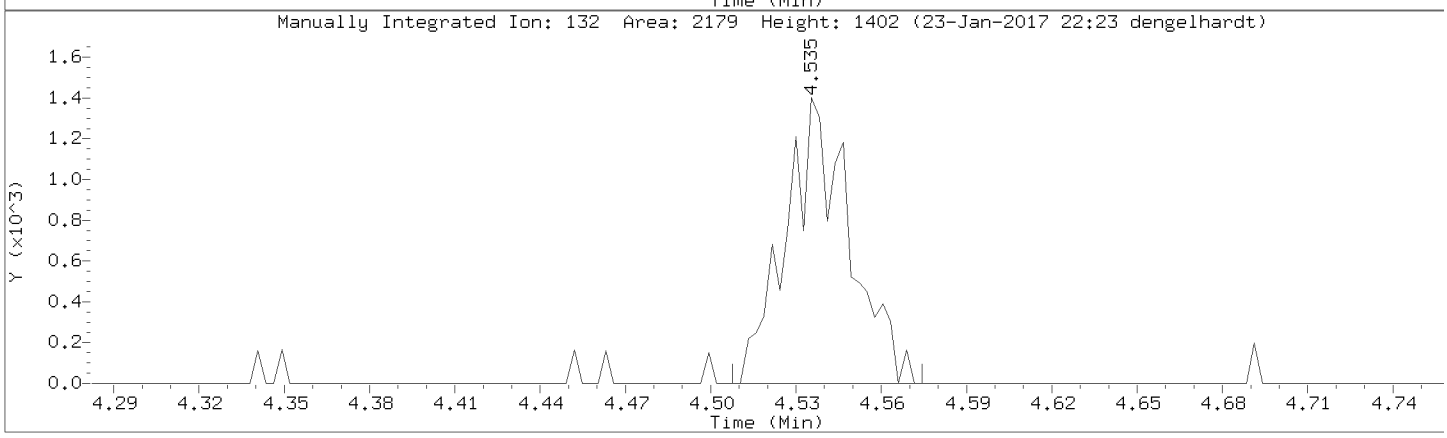
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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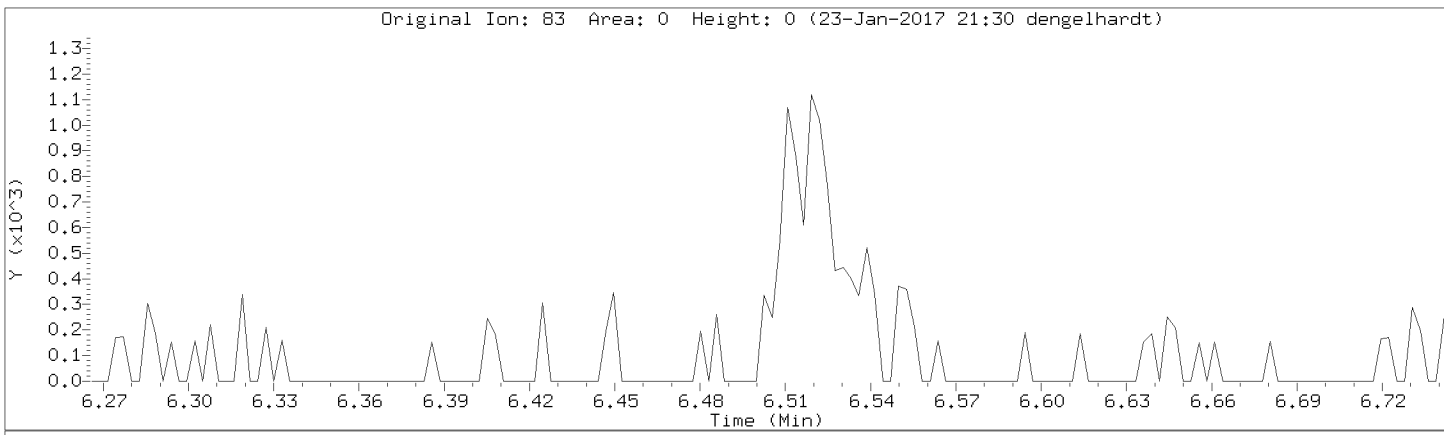
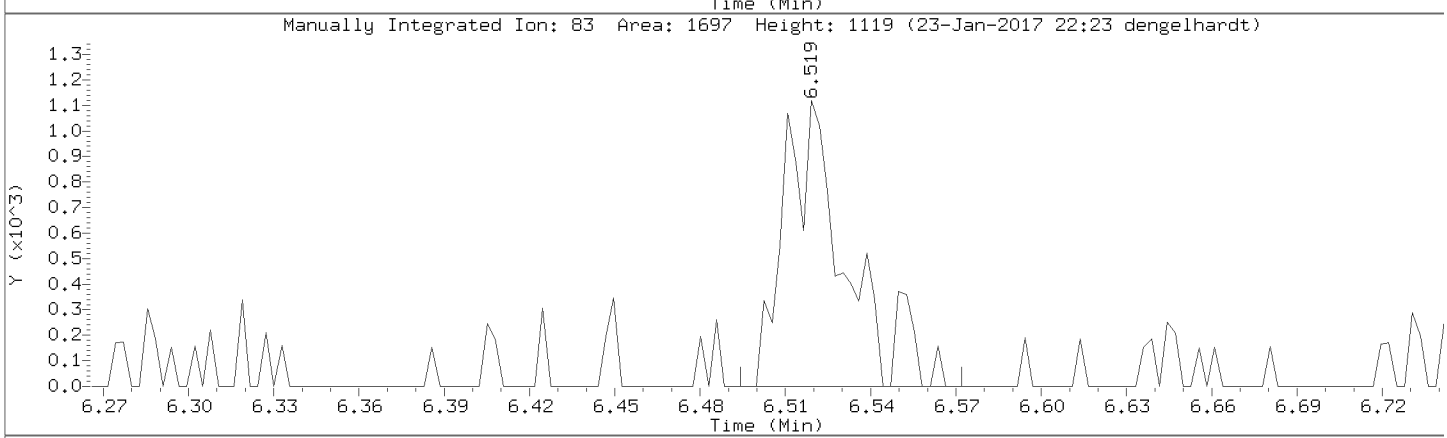
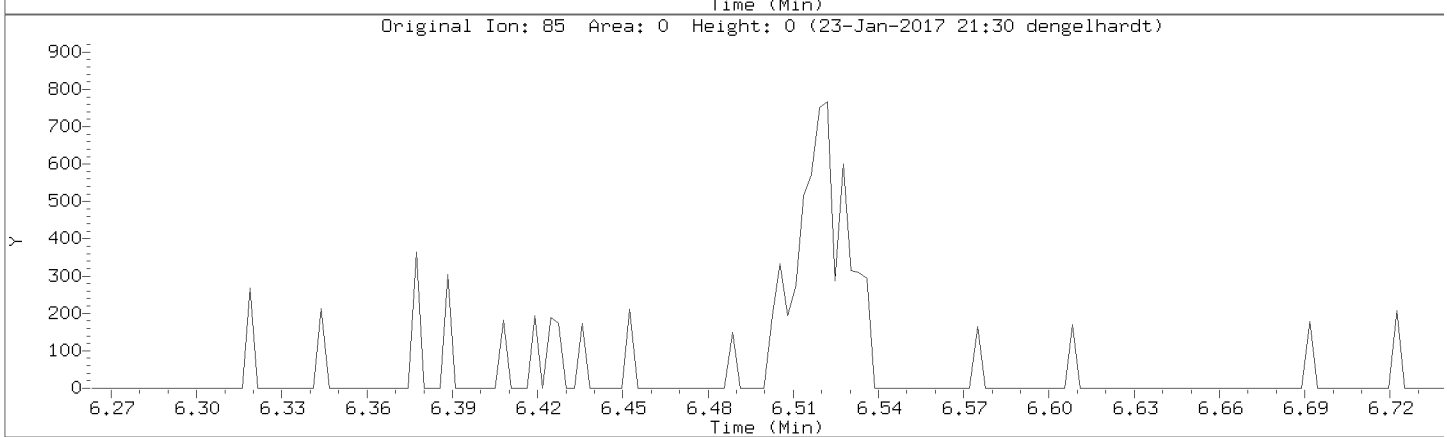
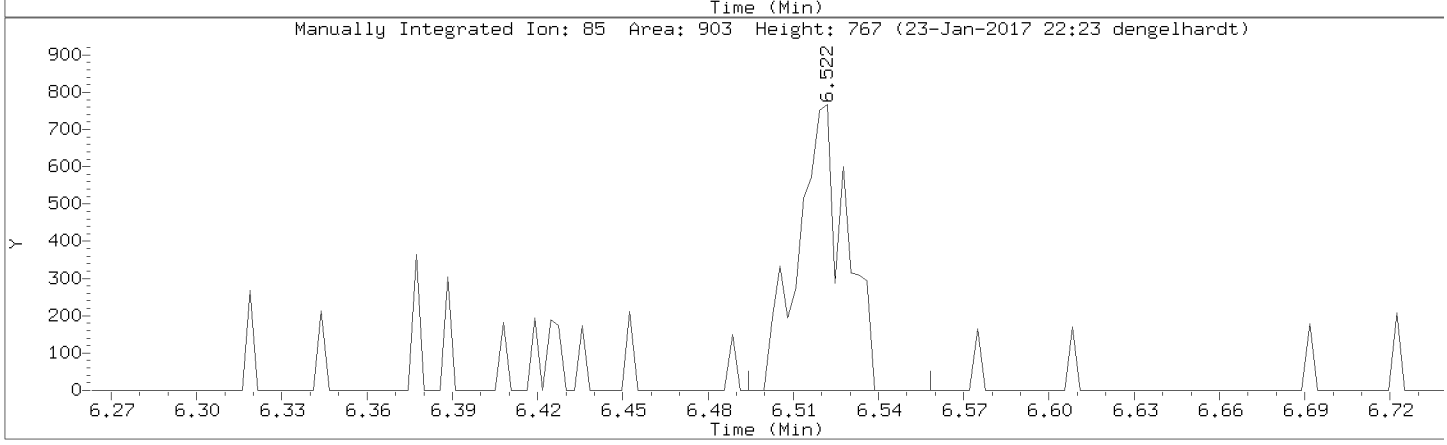
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2-Trichloroethane Review Code: NI
CAS Number: 79-00-5









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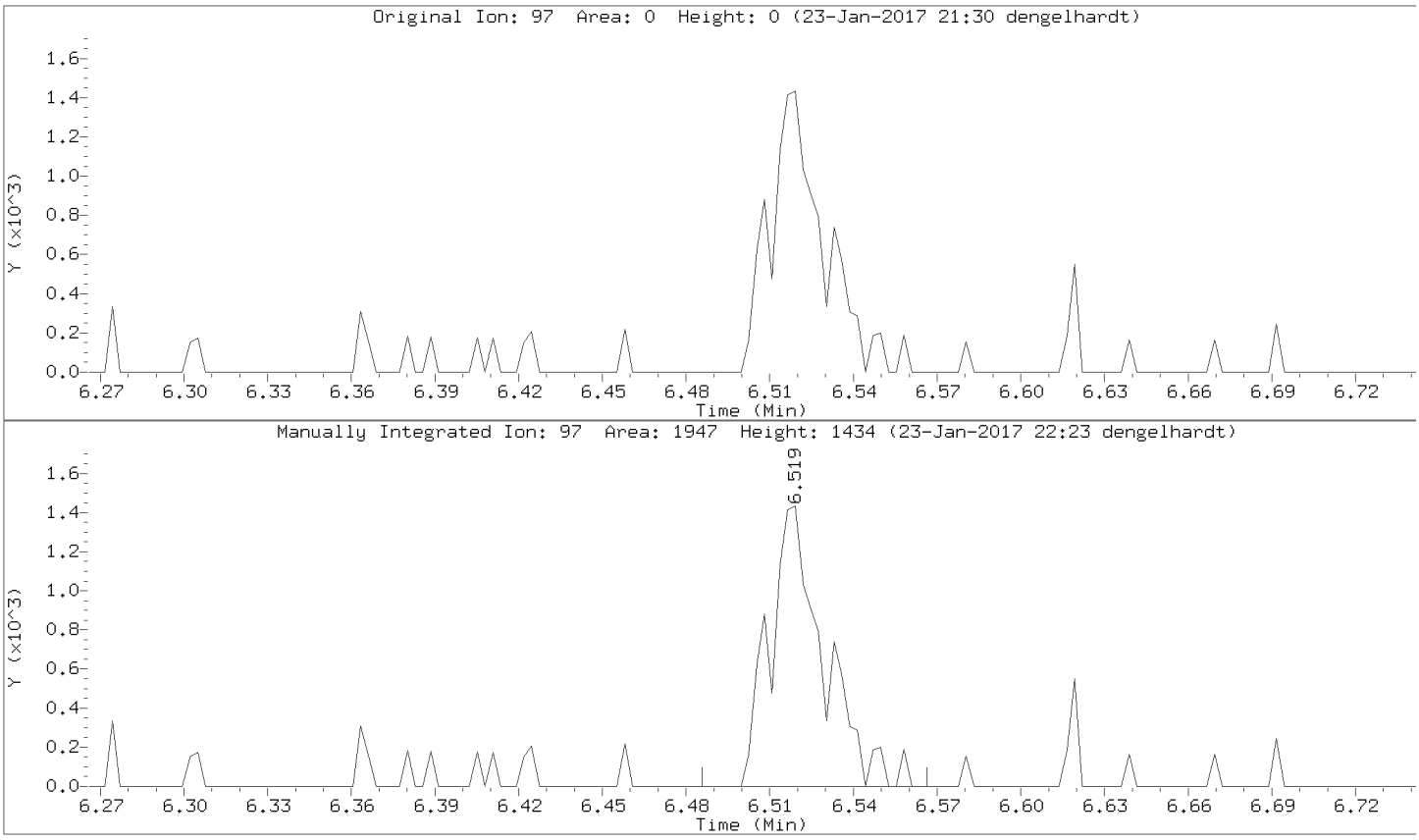
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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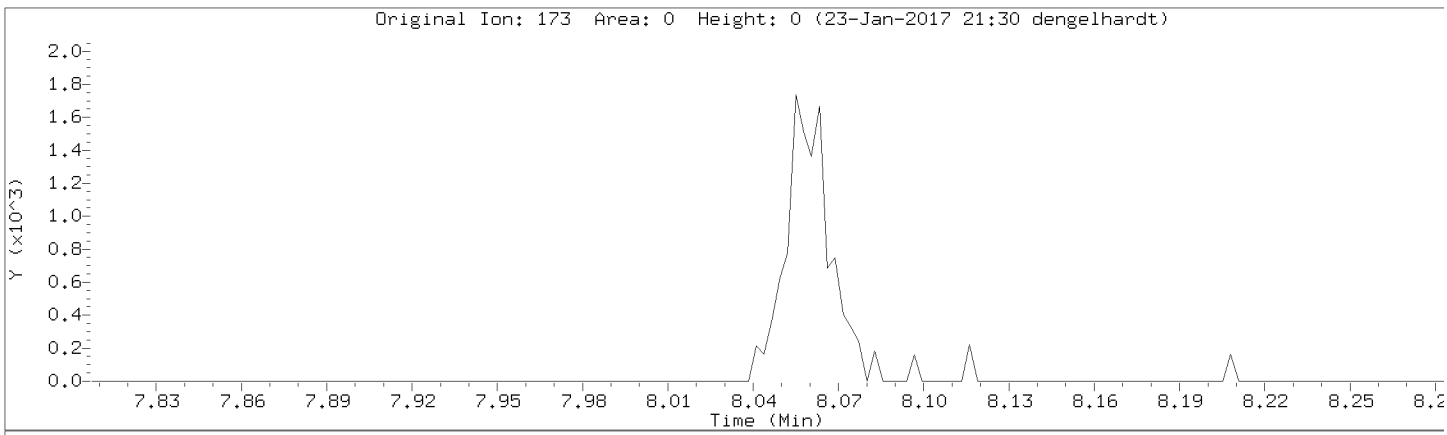
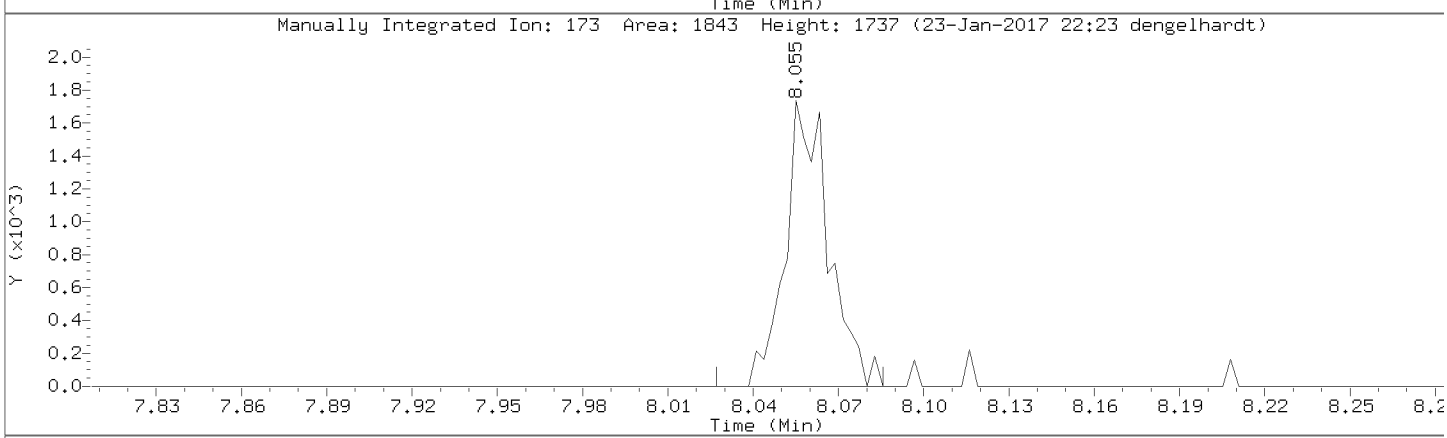
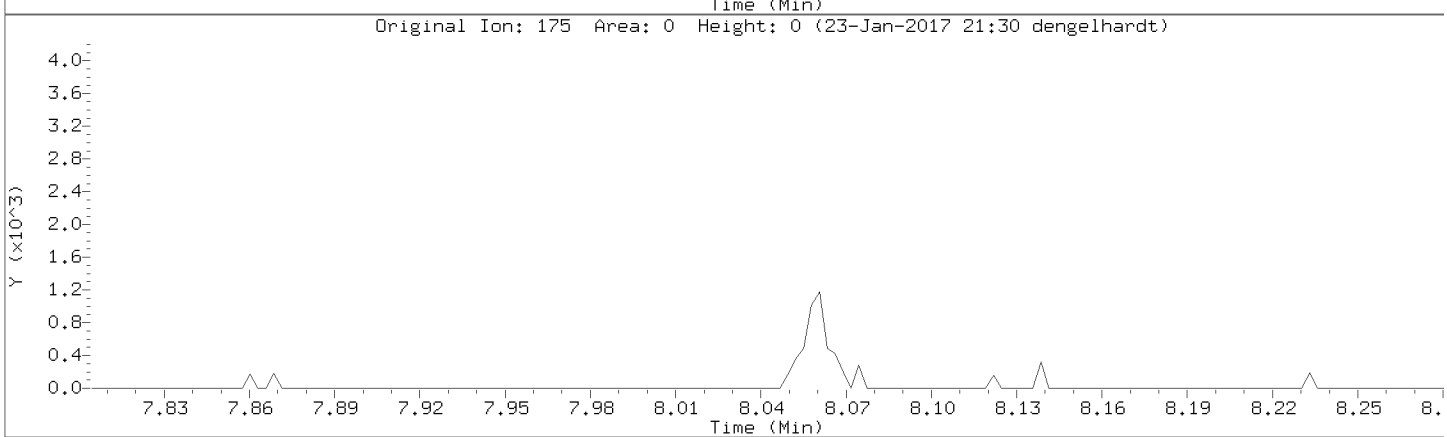
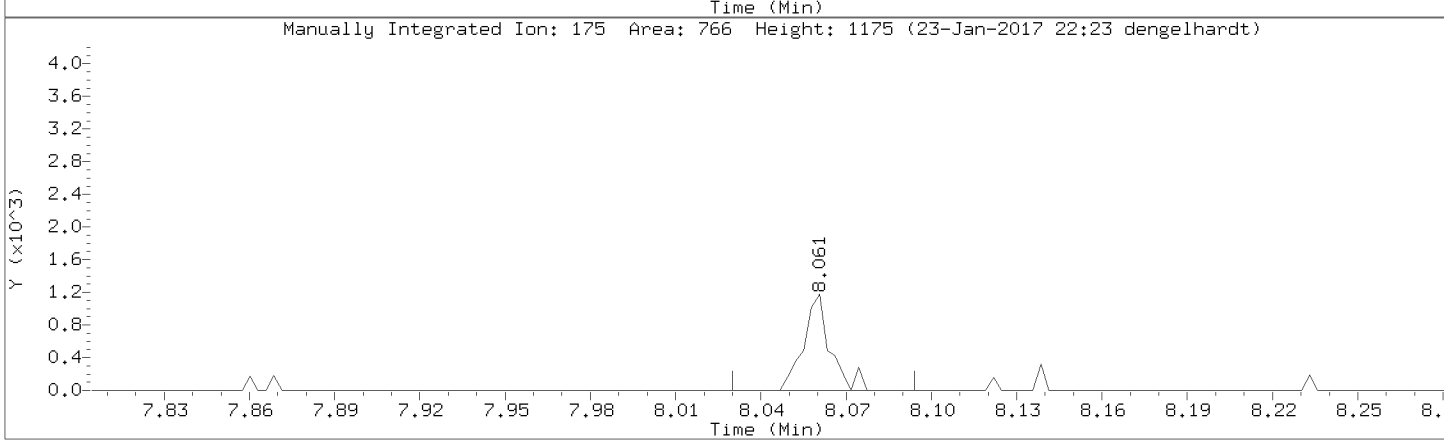
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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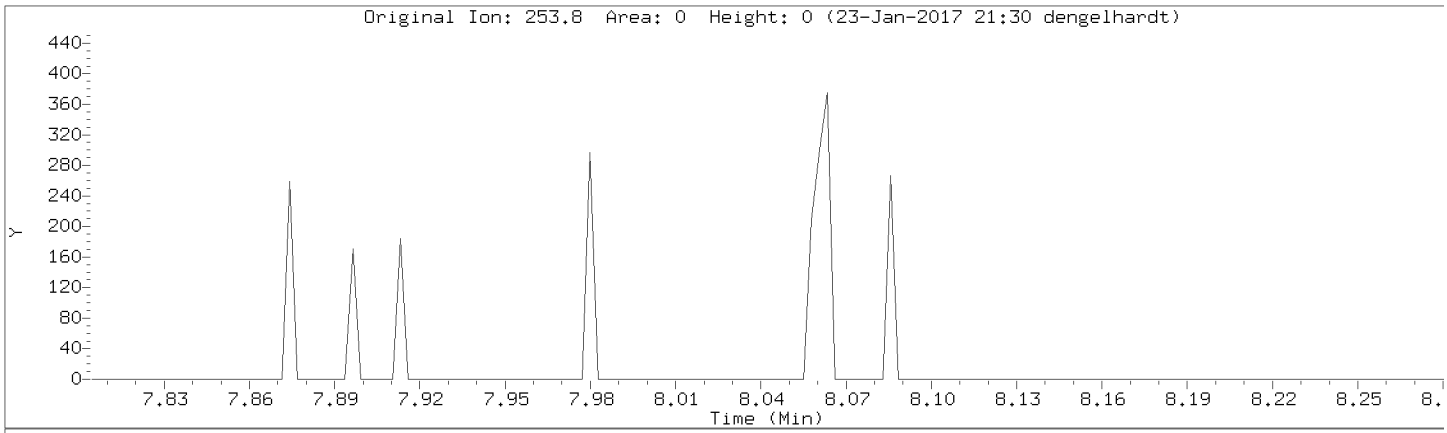
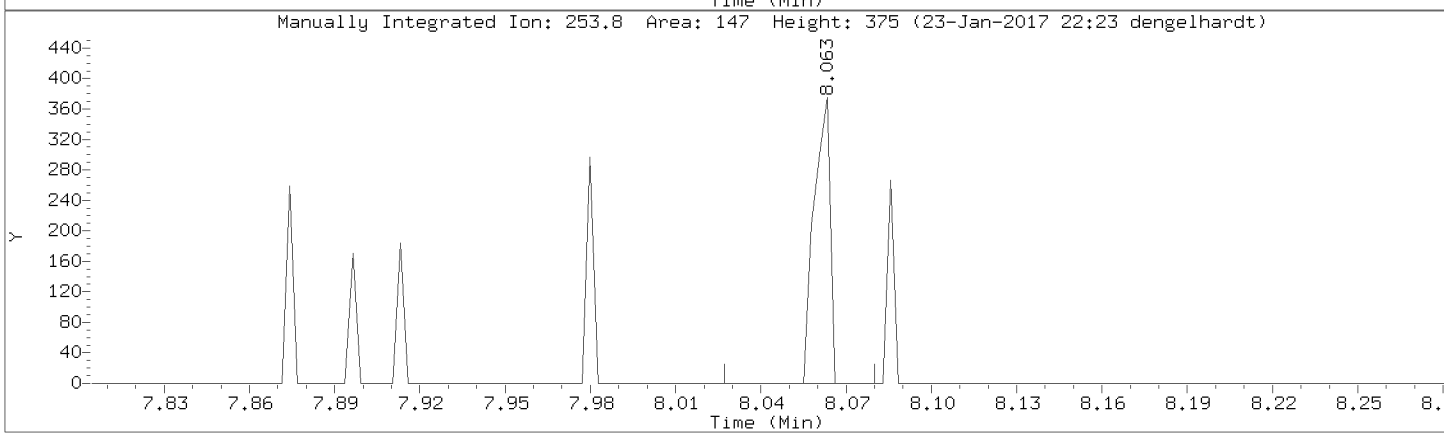
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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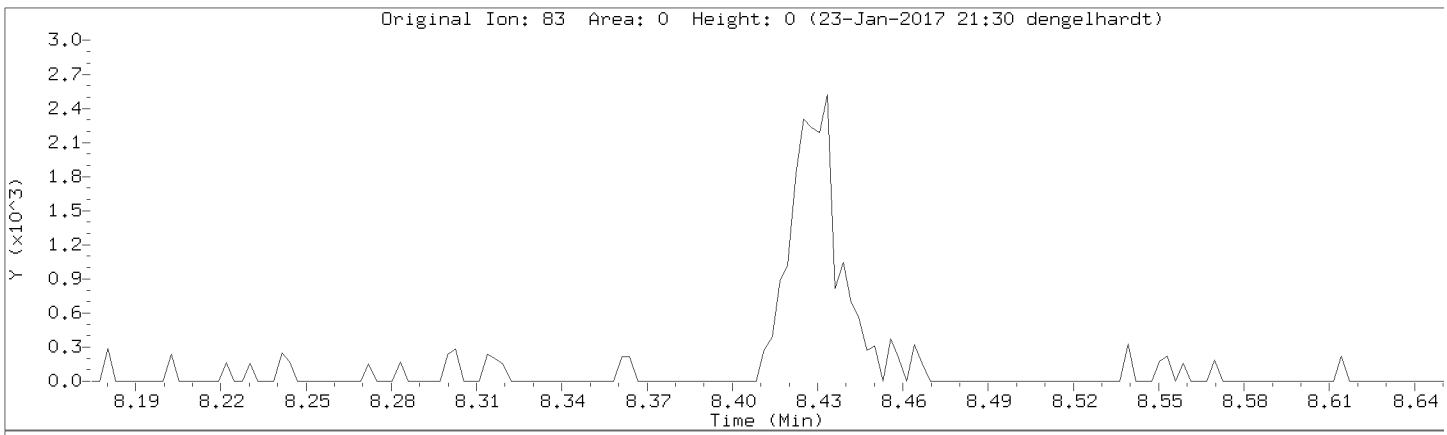
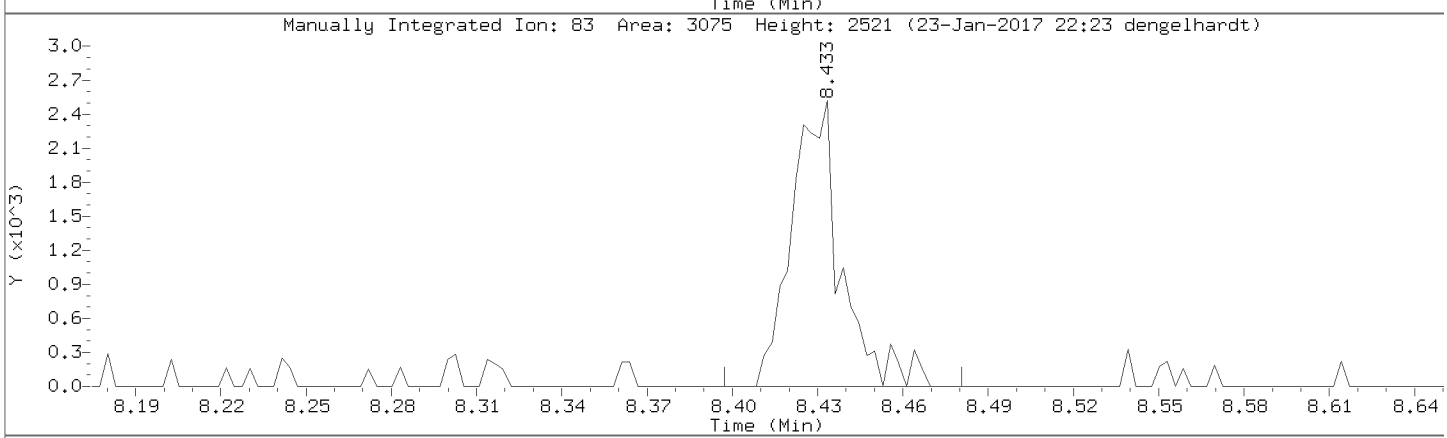
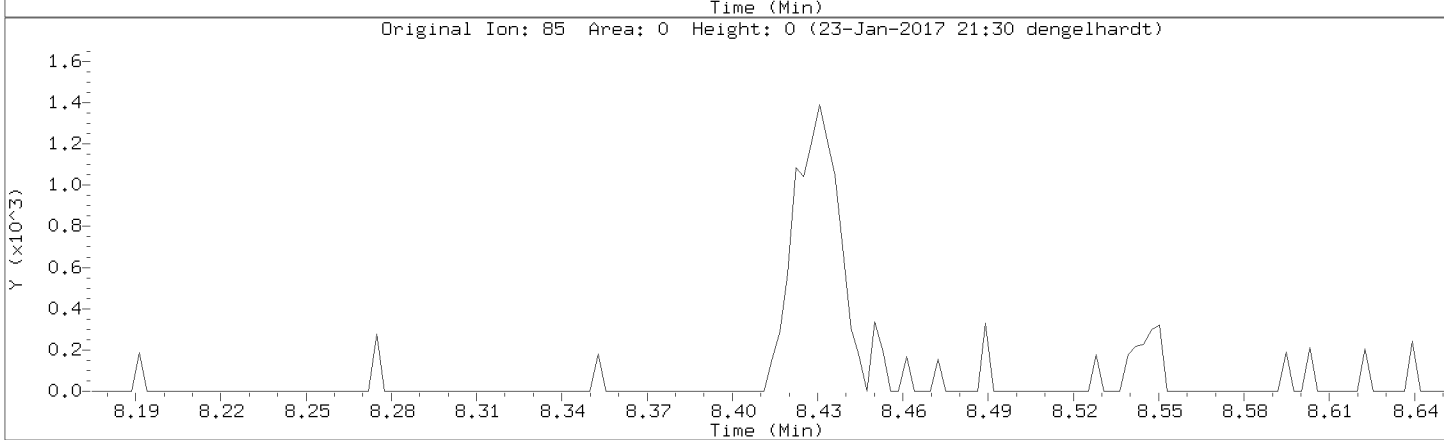
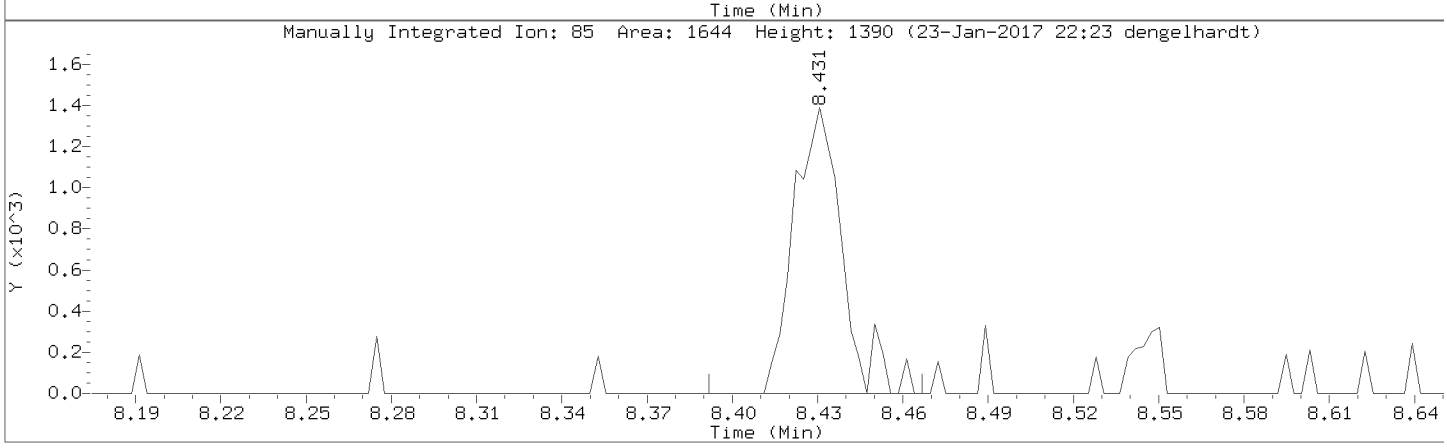
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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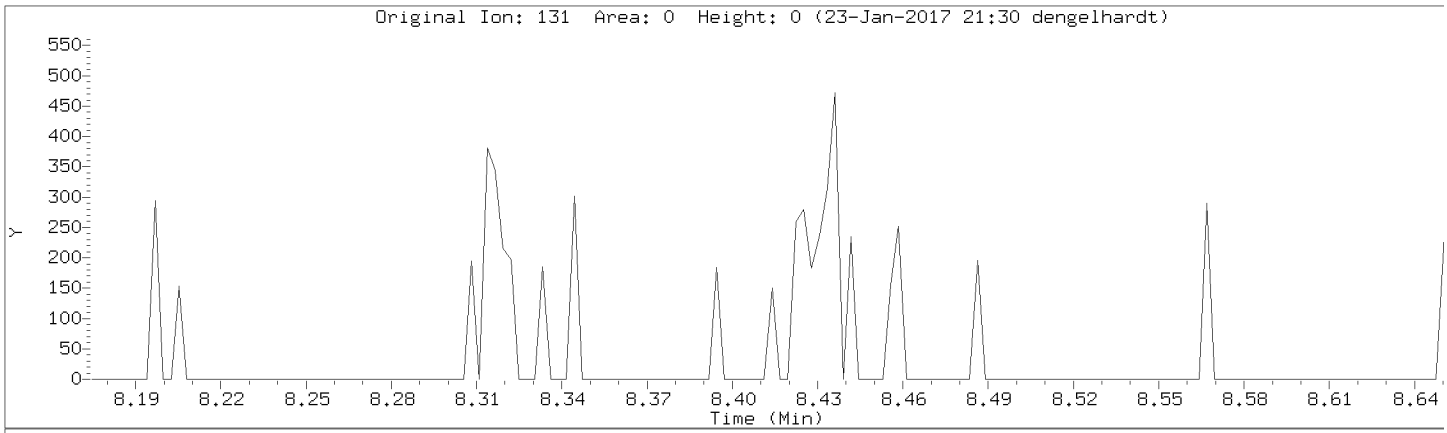
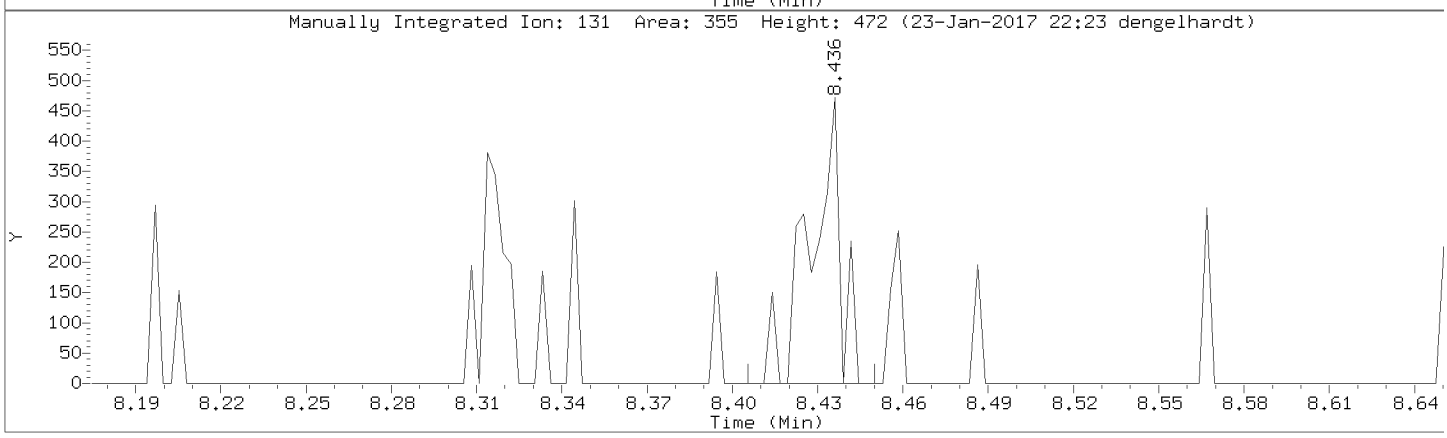
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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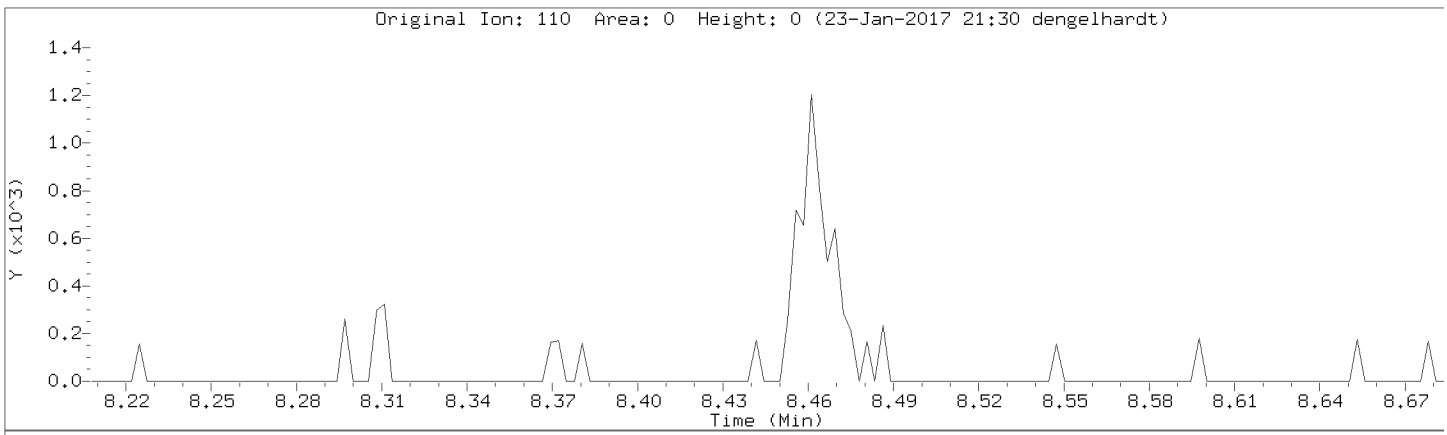
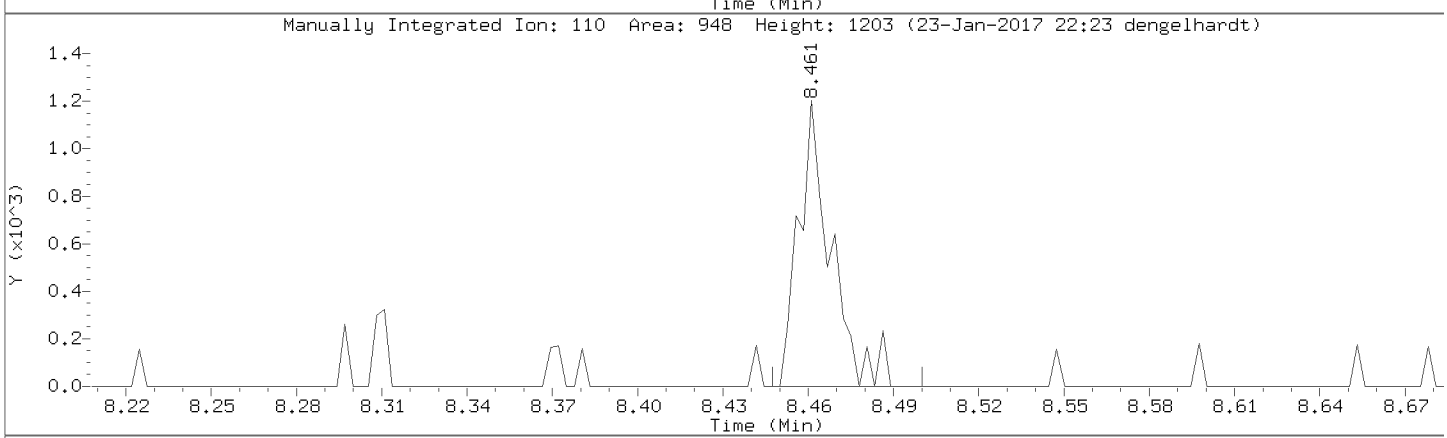
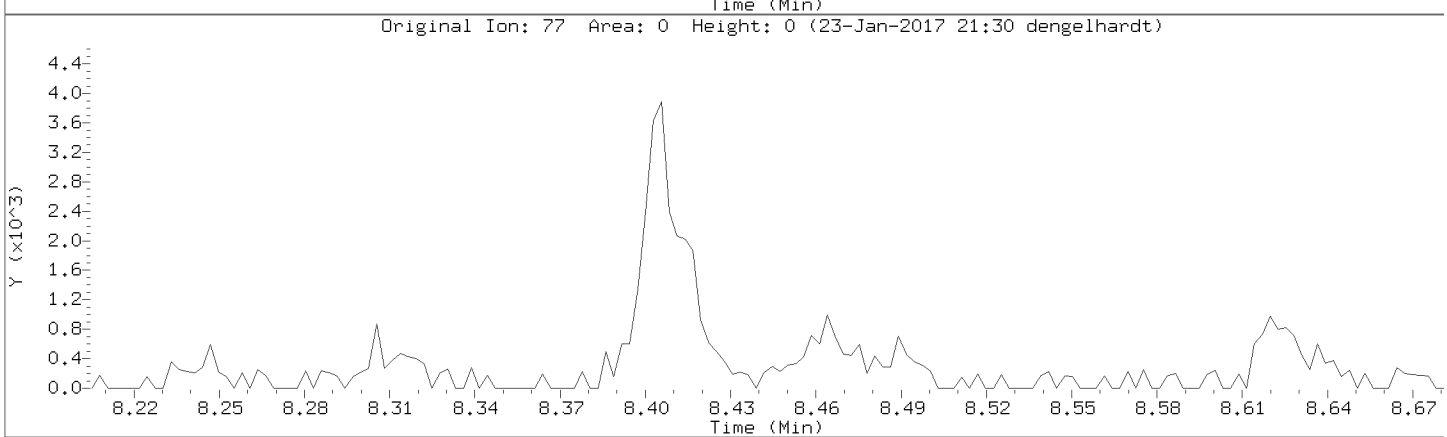
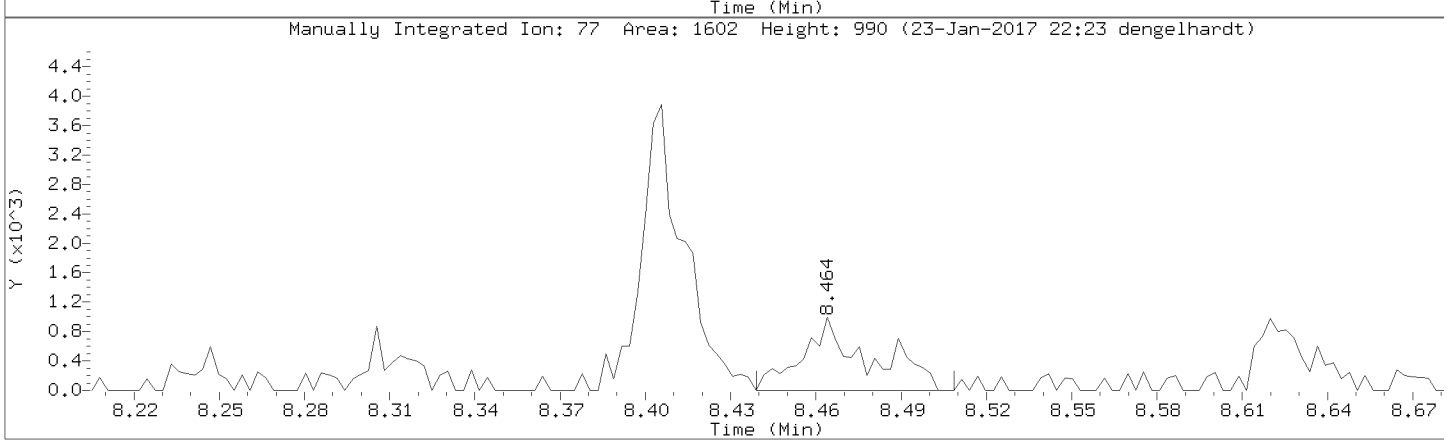
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trichloropropane Review Code: NI
CAS Number: 96-18-4









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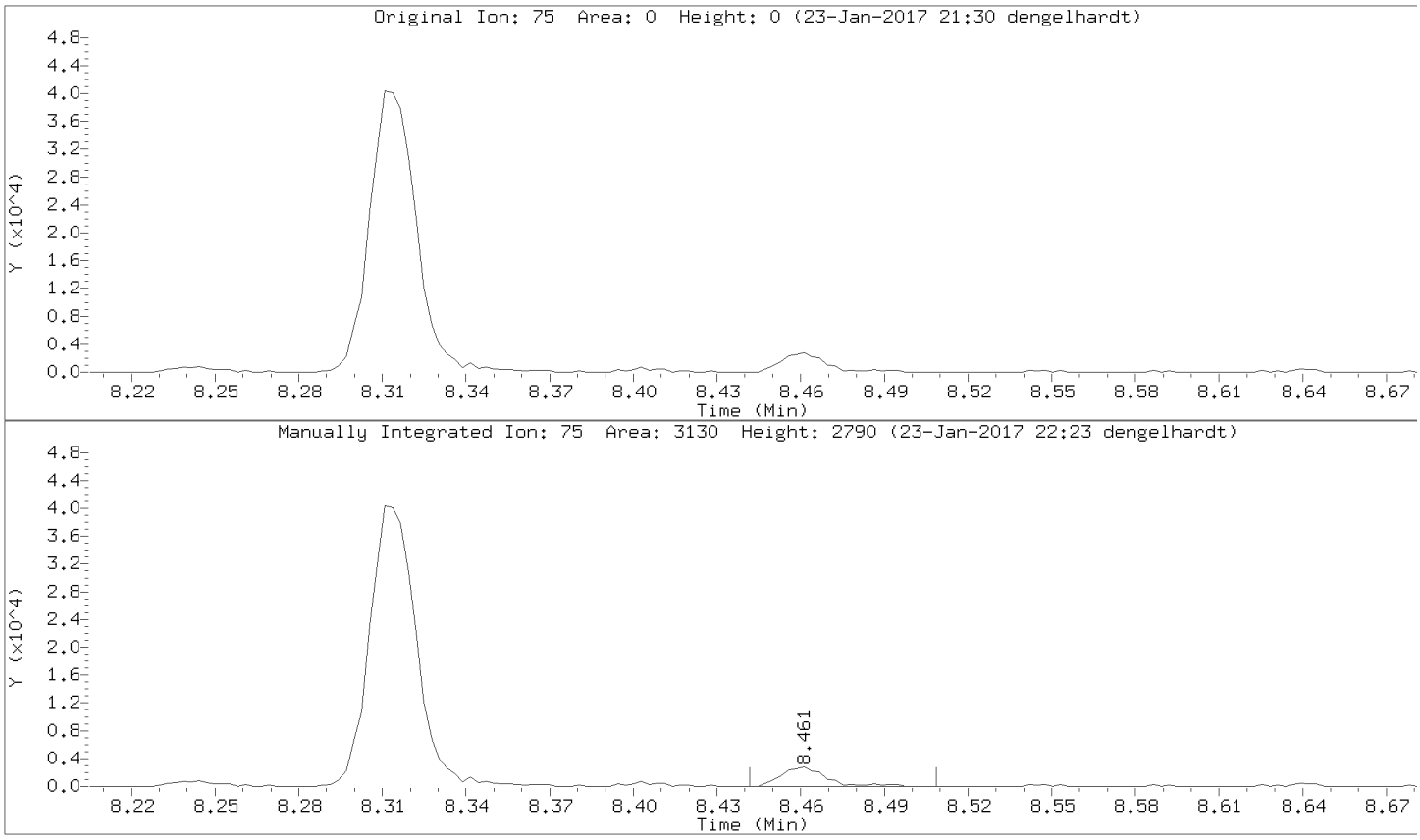
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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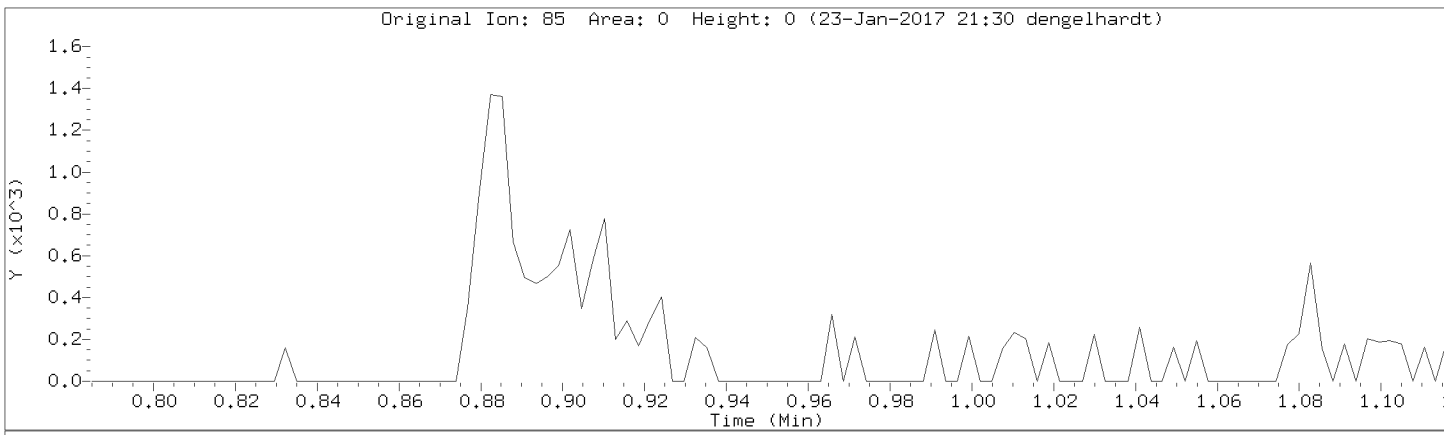
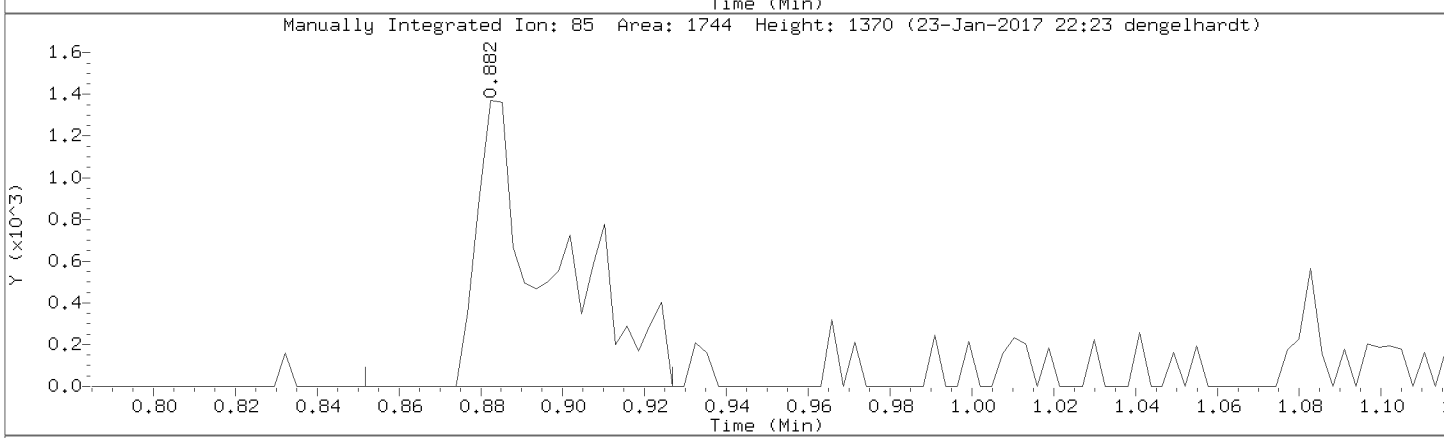
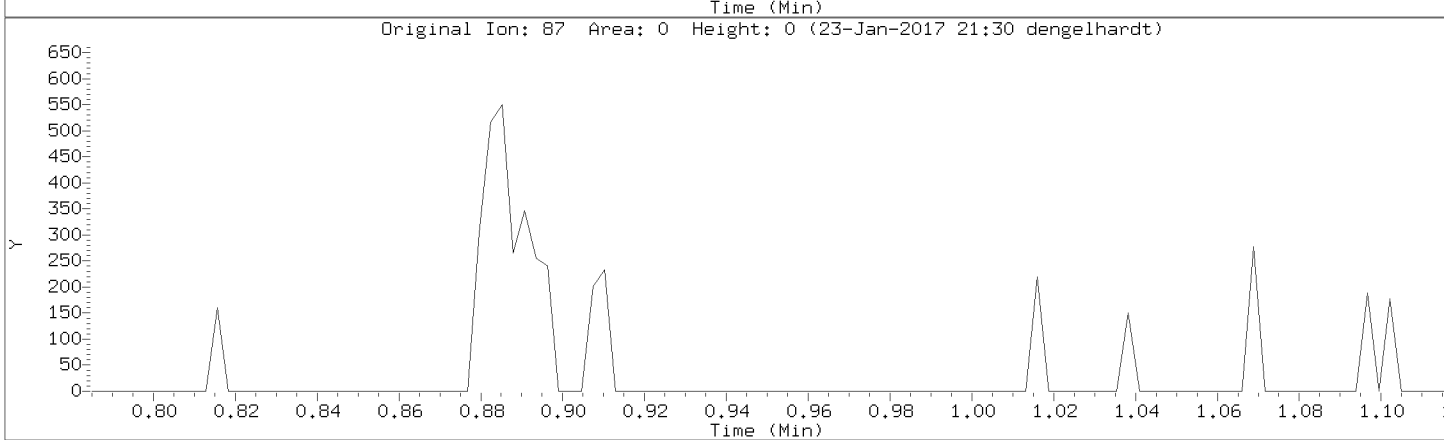
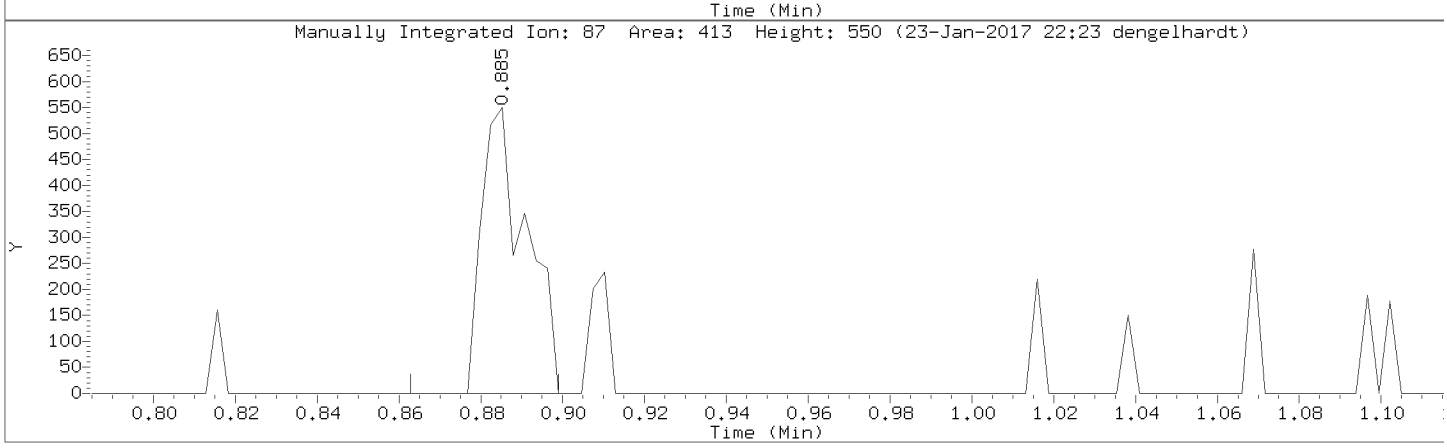
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 107-06-2









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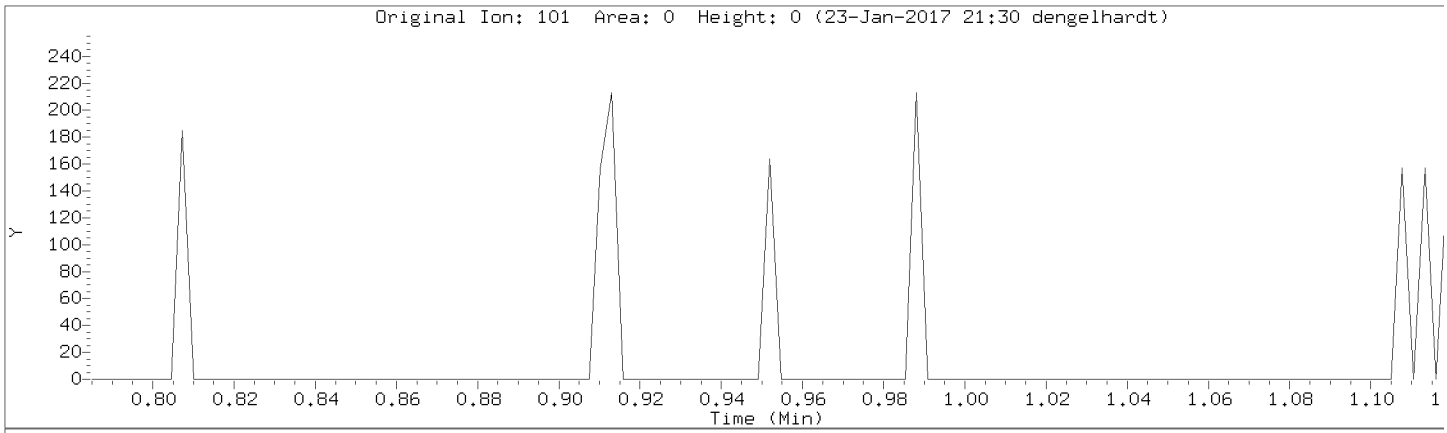
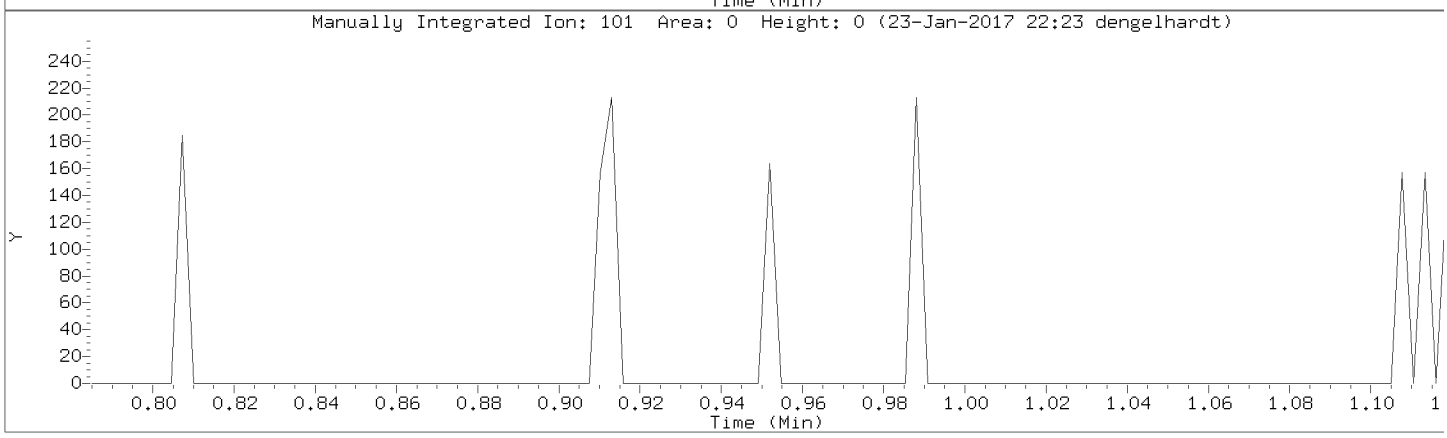
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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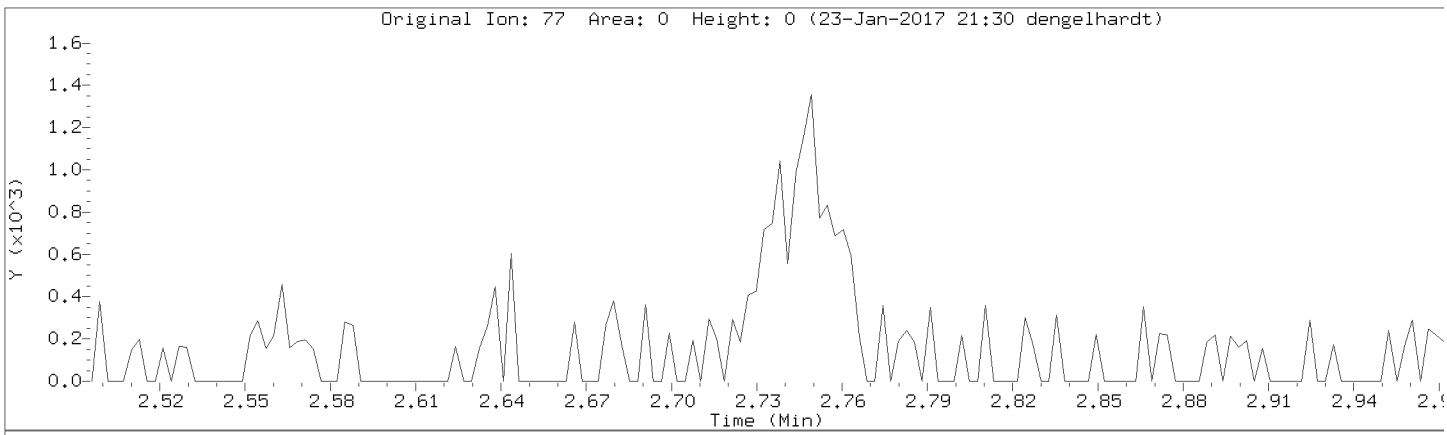
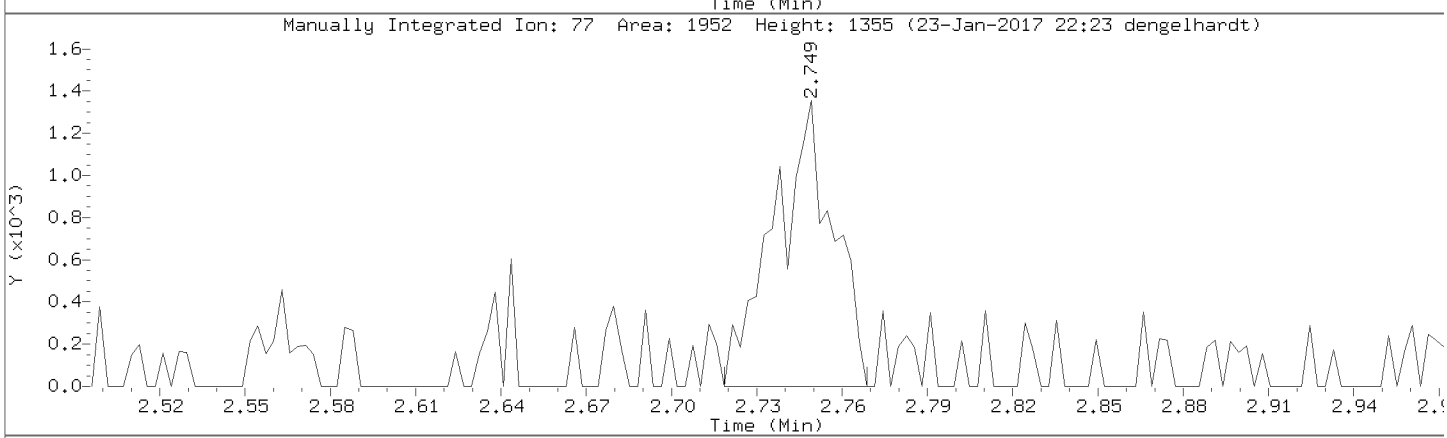
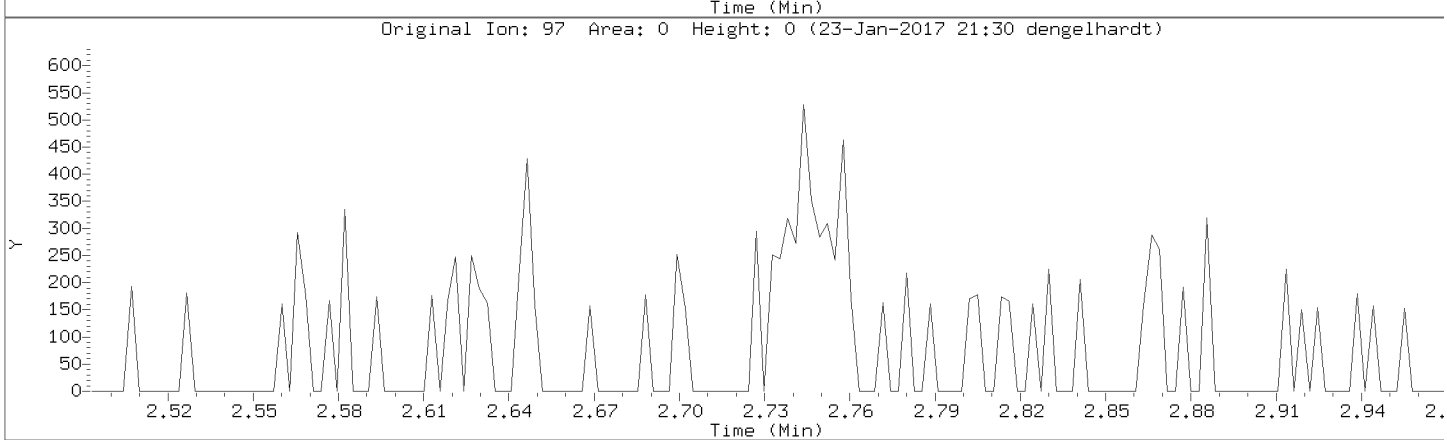
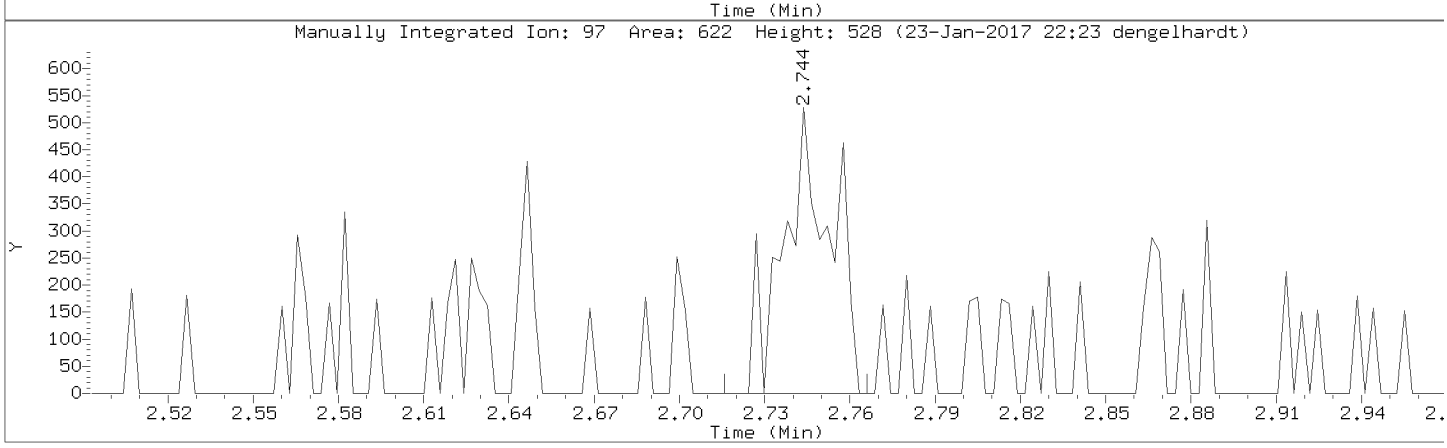
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7









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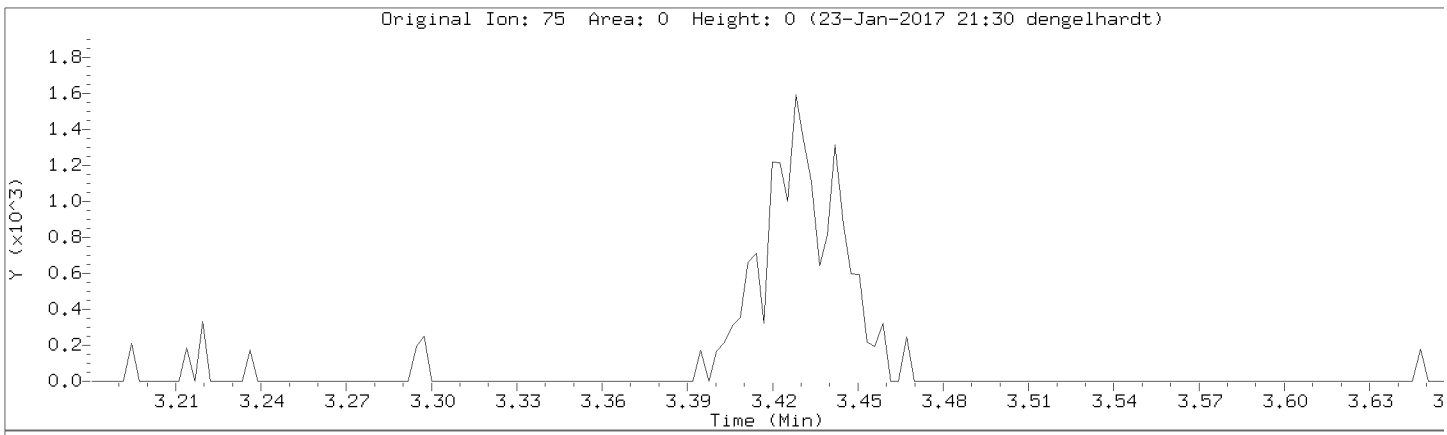
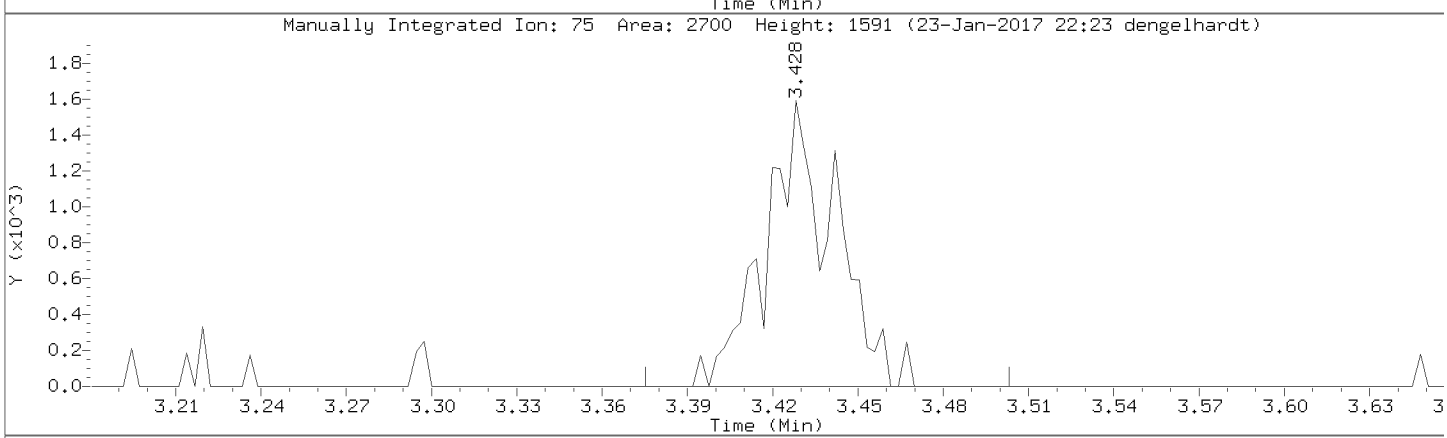
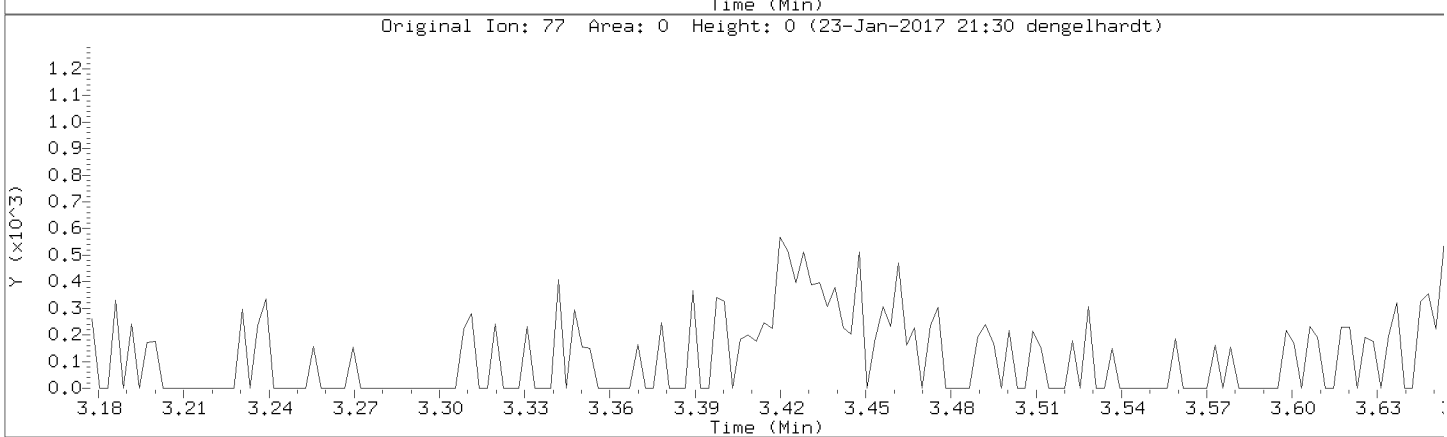
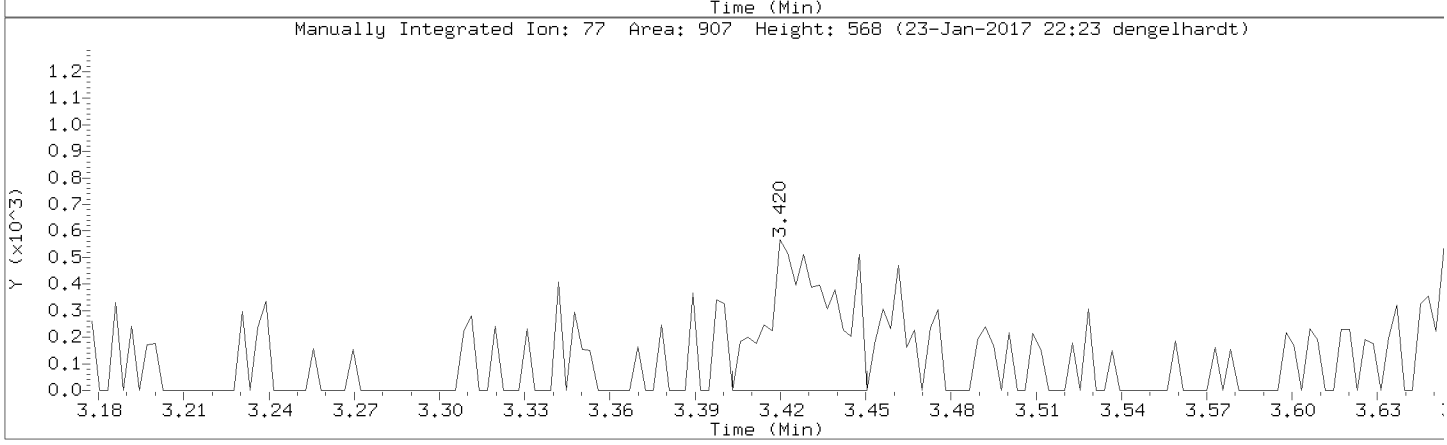
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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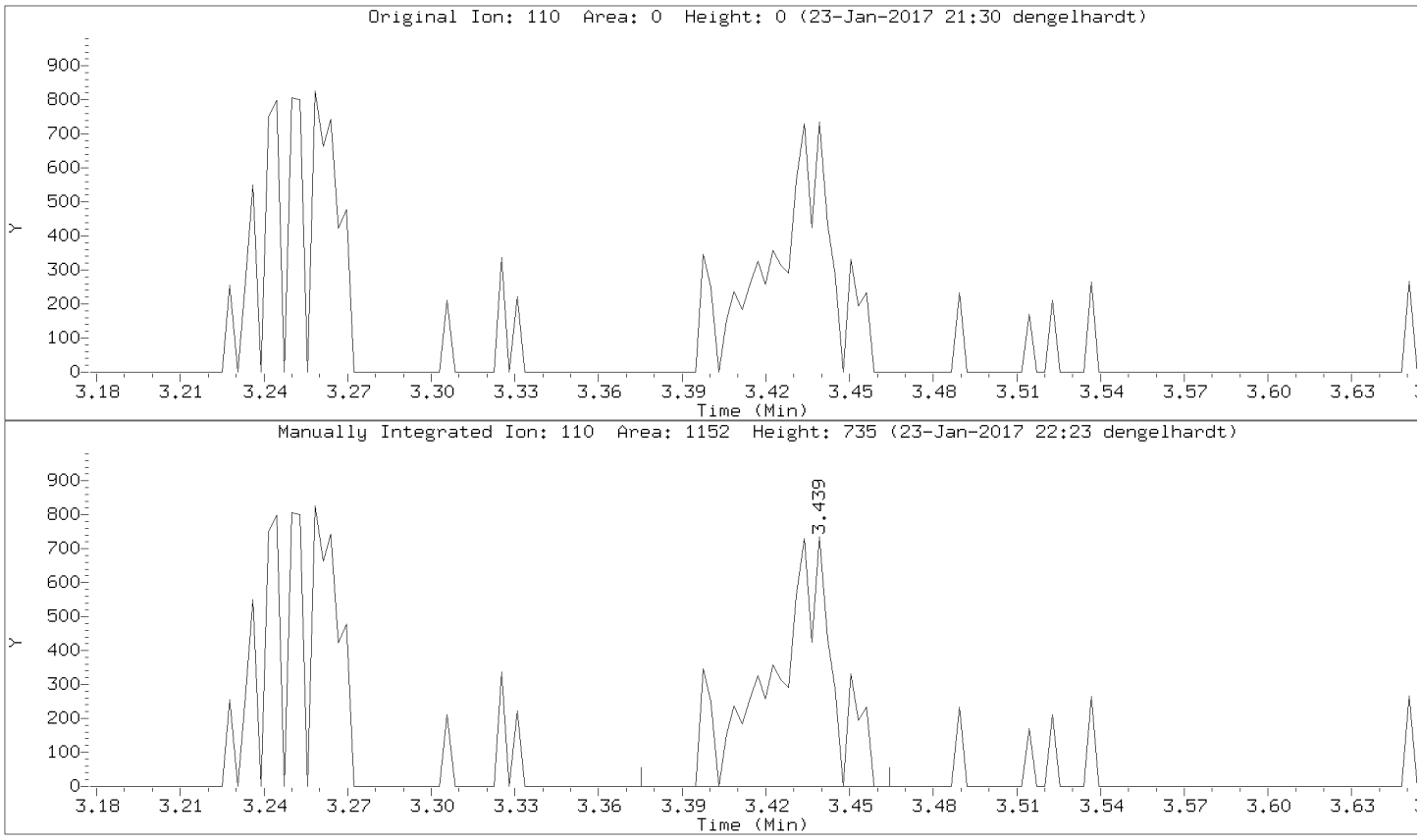
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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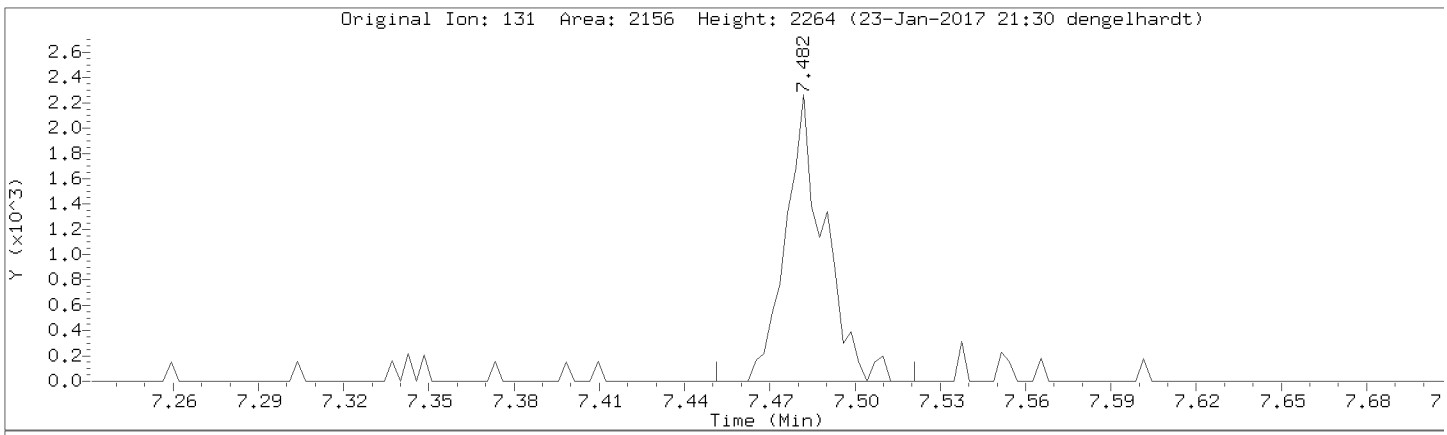
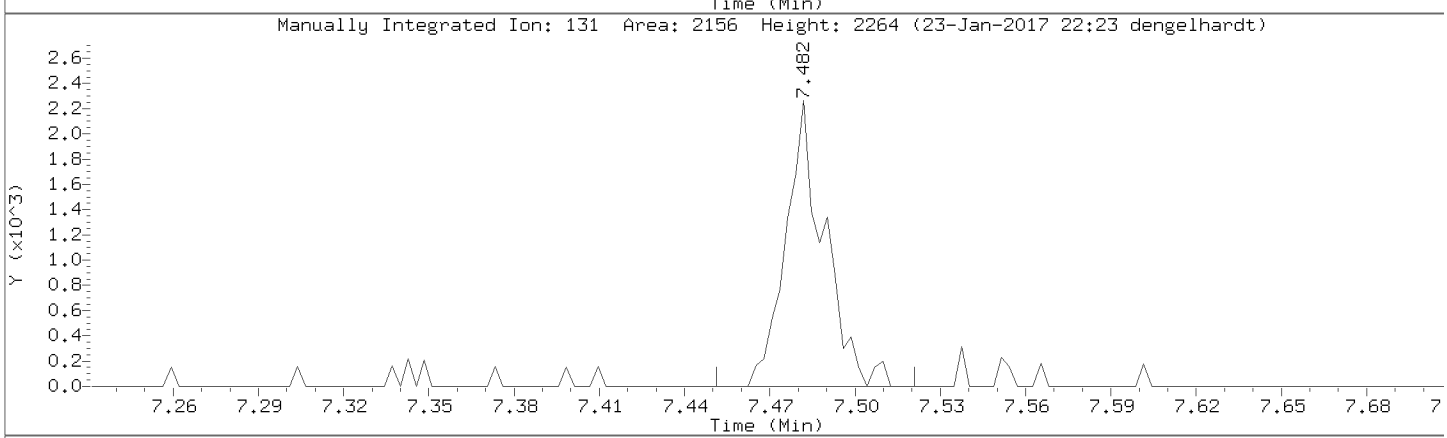
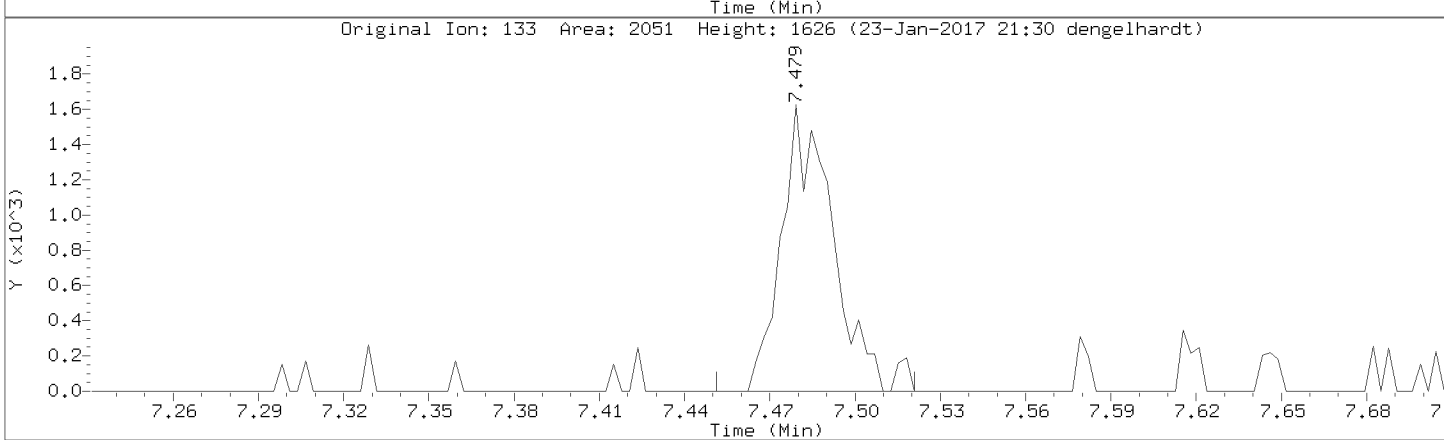
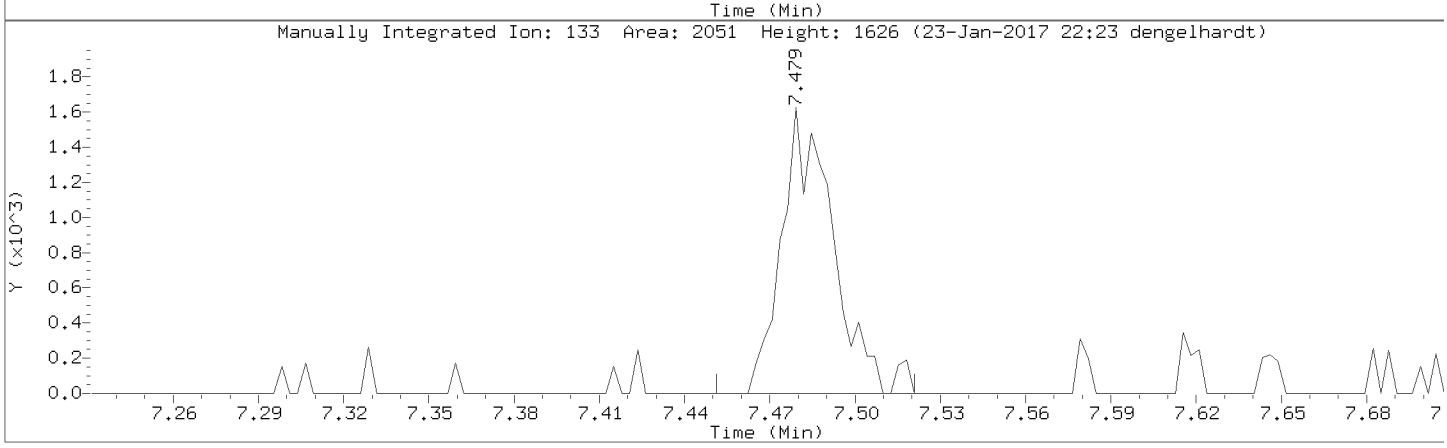
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,1,2-Tetrachloroethane Review Code: WP
CAS Number: 630-20-6









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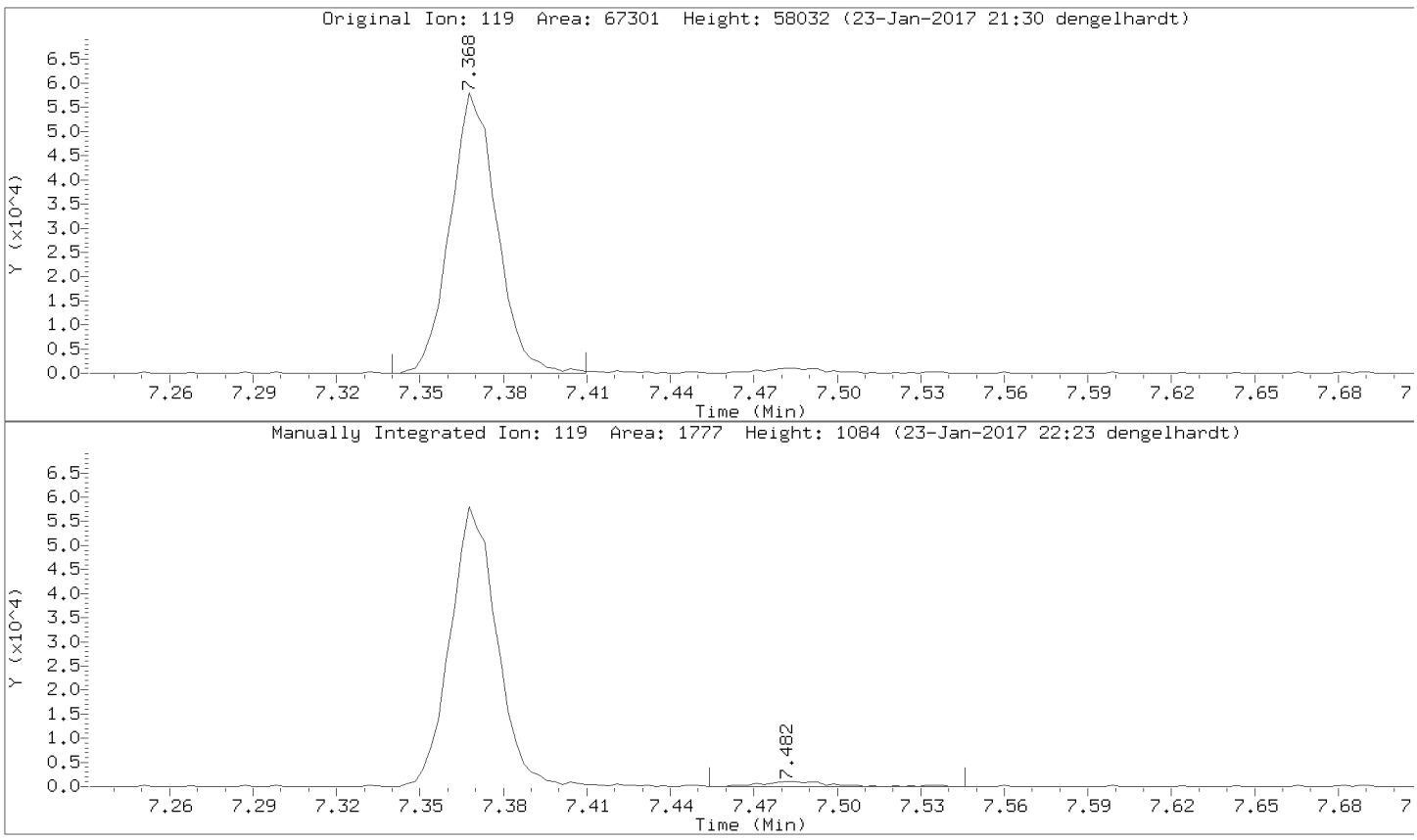
Lab Sample ID: 8260-CAL2



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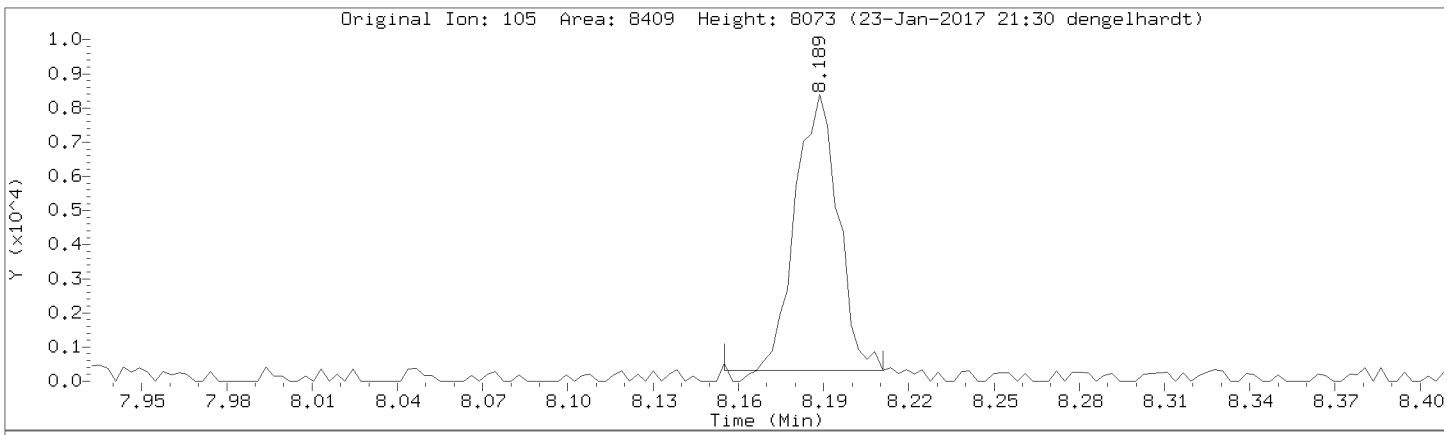
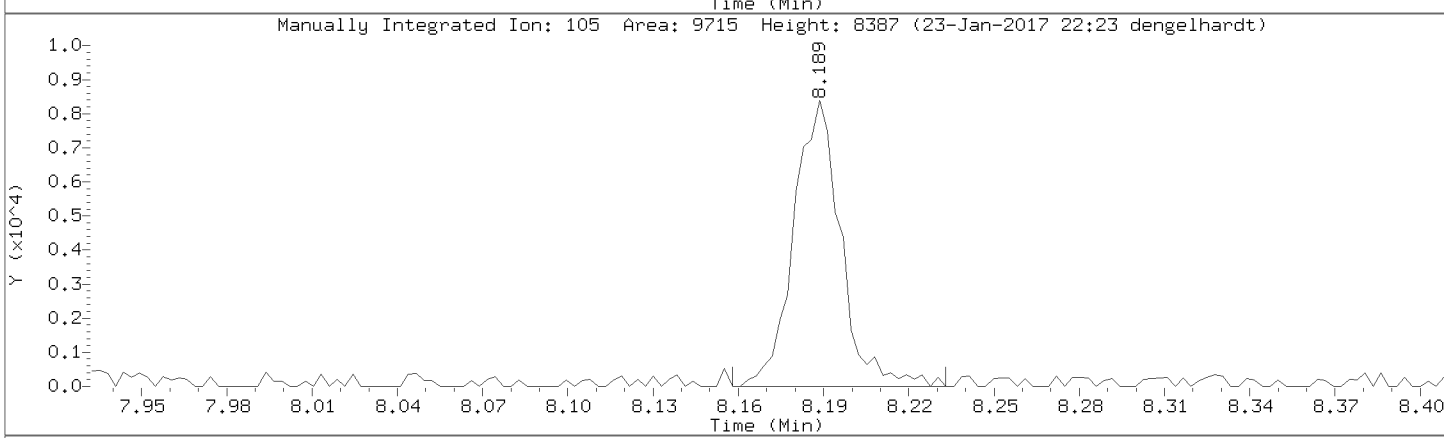
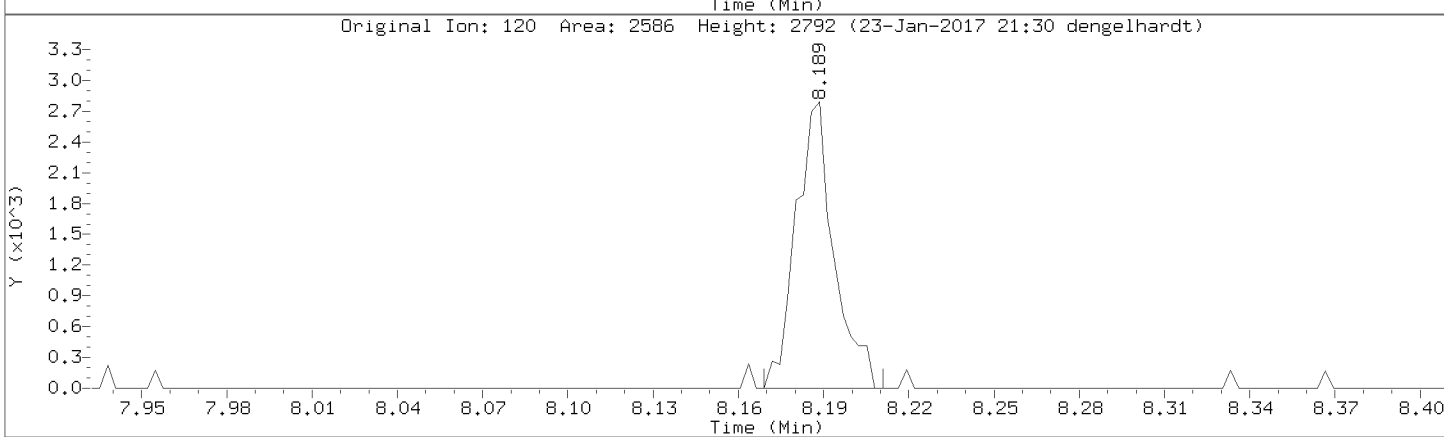
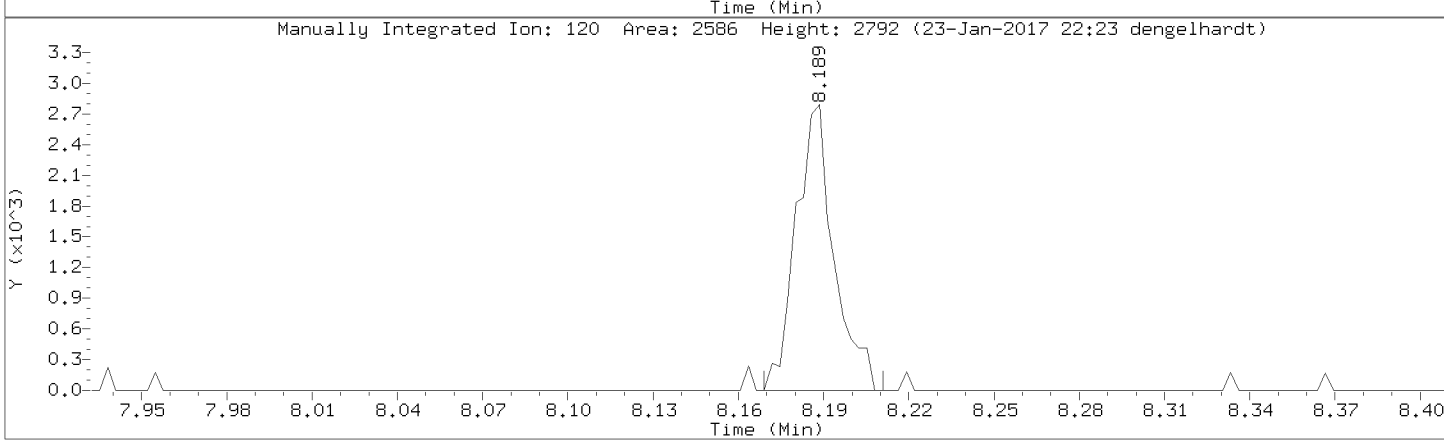
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Isopropylbenzene Review Code: LT
CAS Number: 98-82-8









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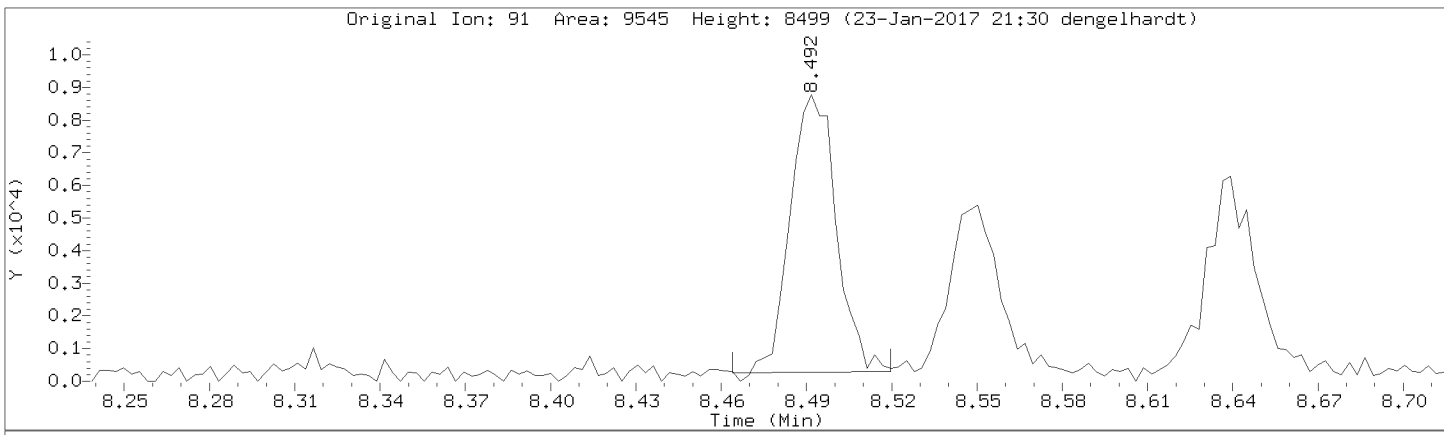
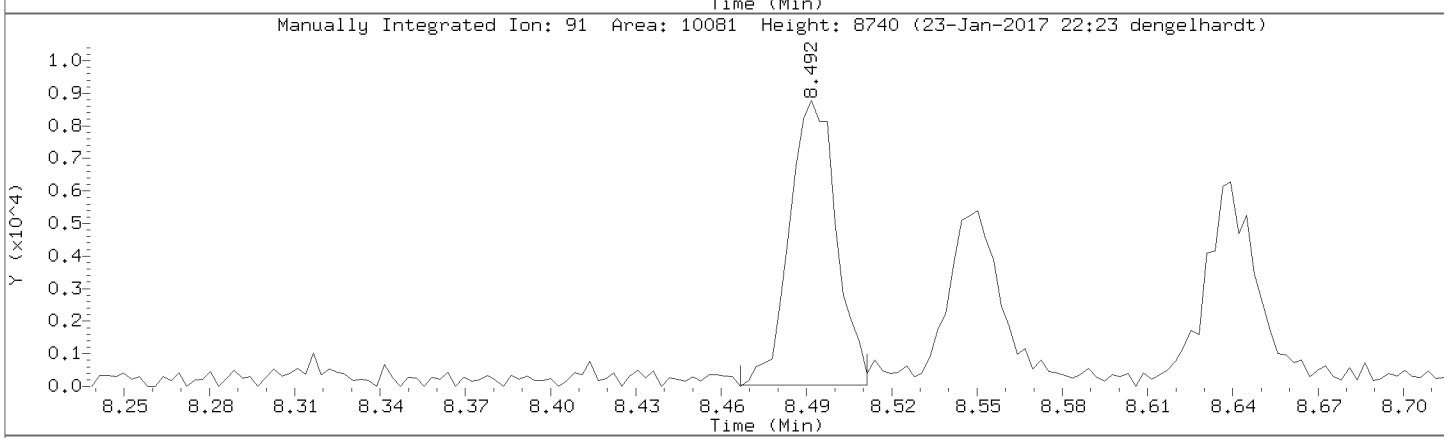
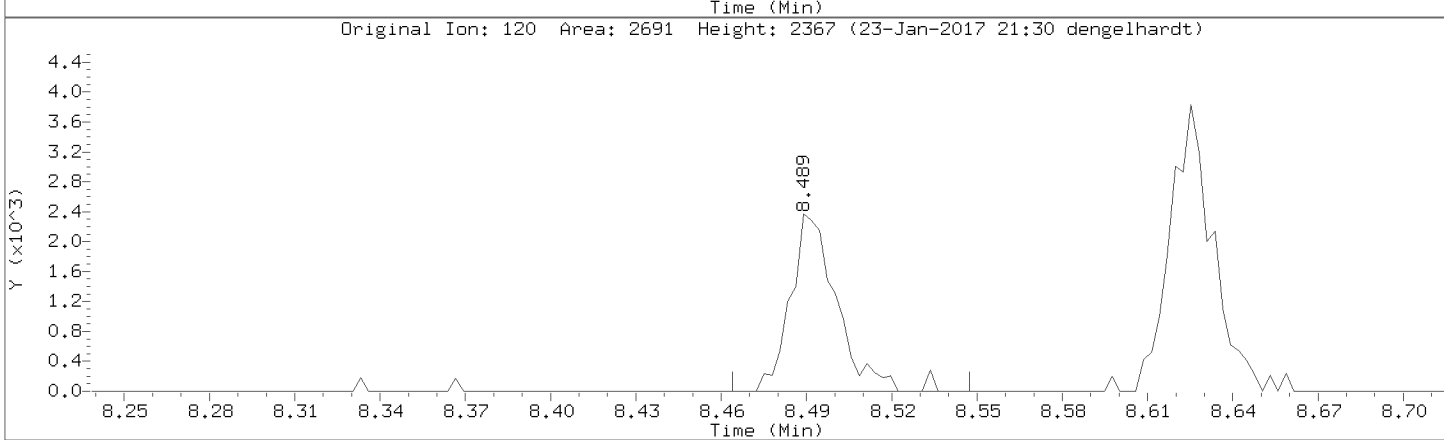
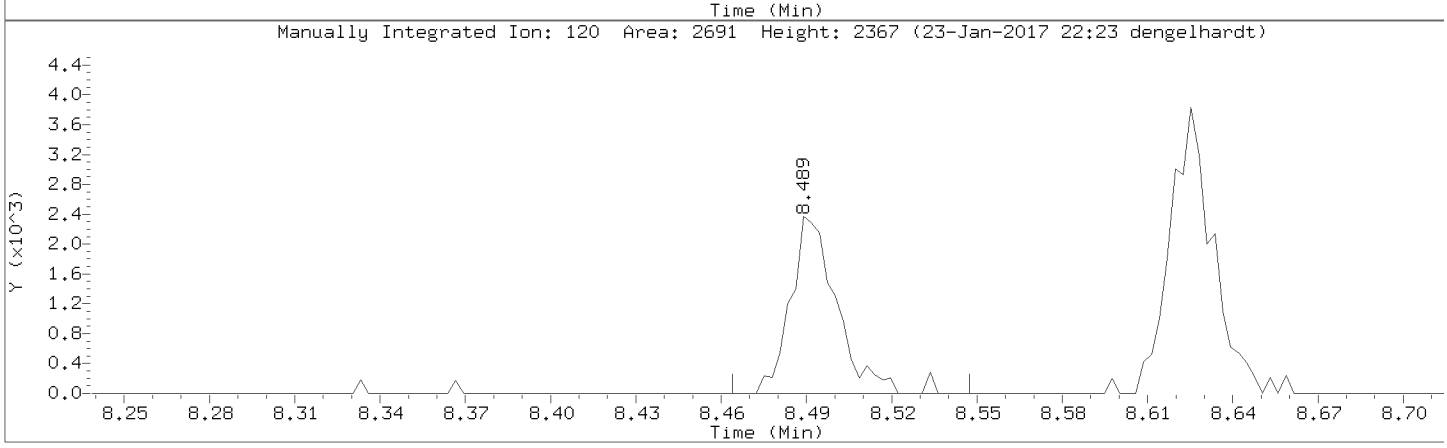
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: n-Propylbenzene Review Code: LT
CAS Number: 103-65-1









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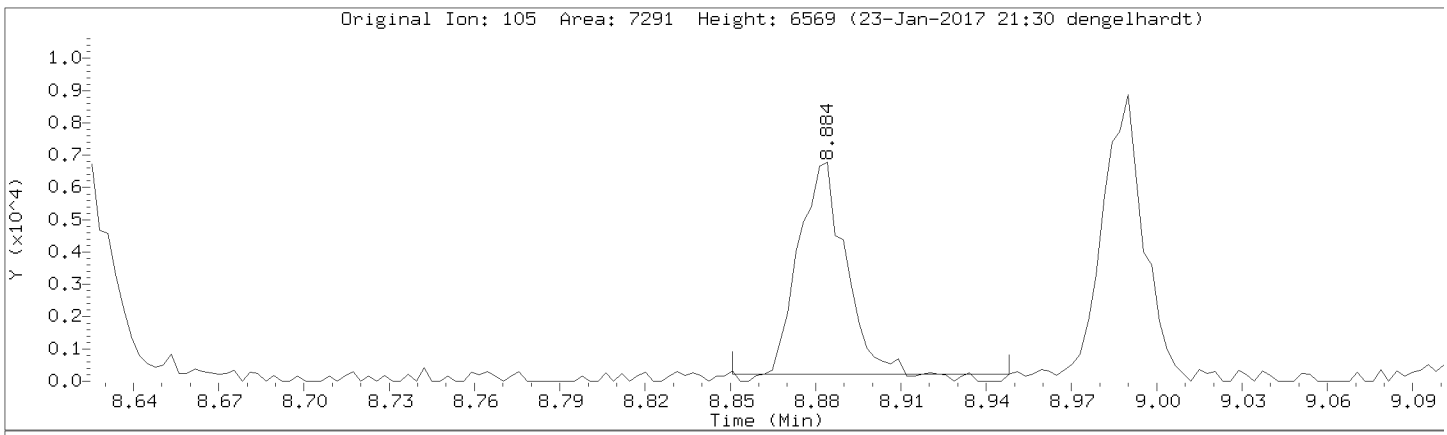
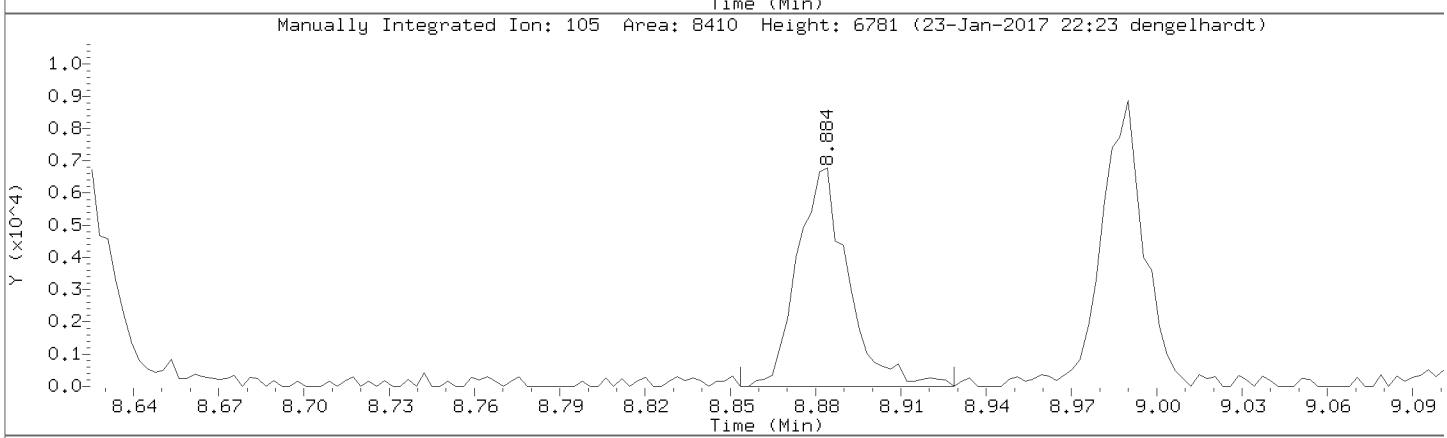
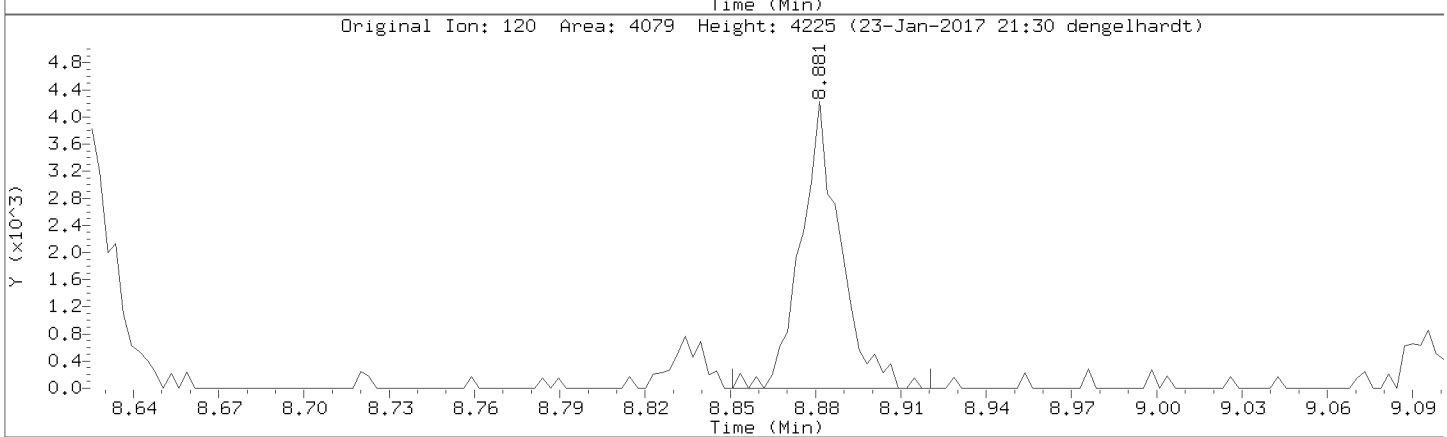
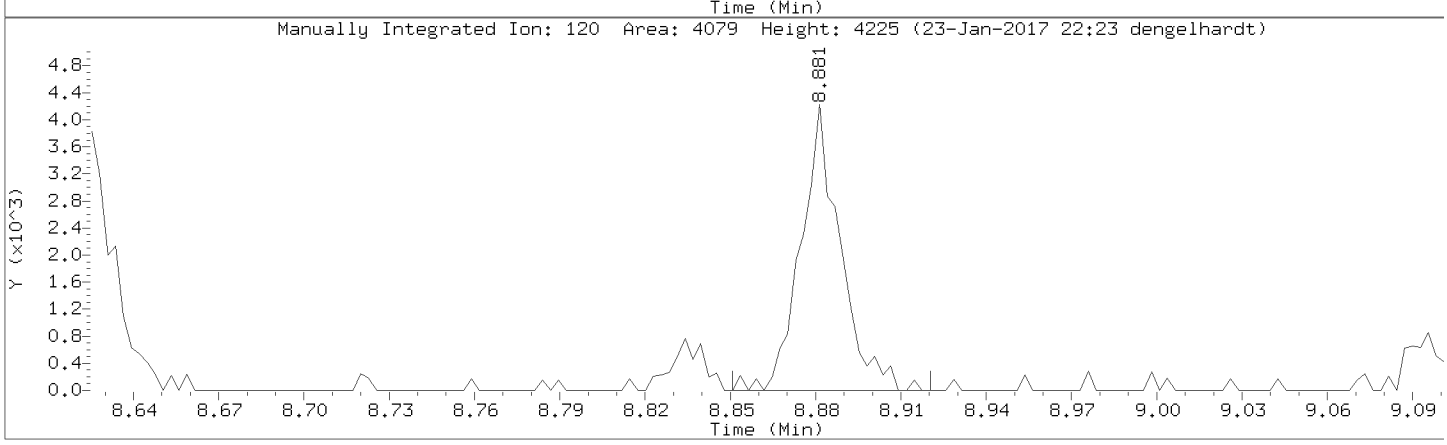
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,4-Trimethylbenzene Review Code: LT
CAS Number: 95-63-6









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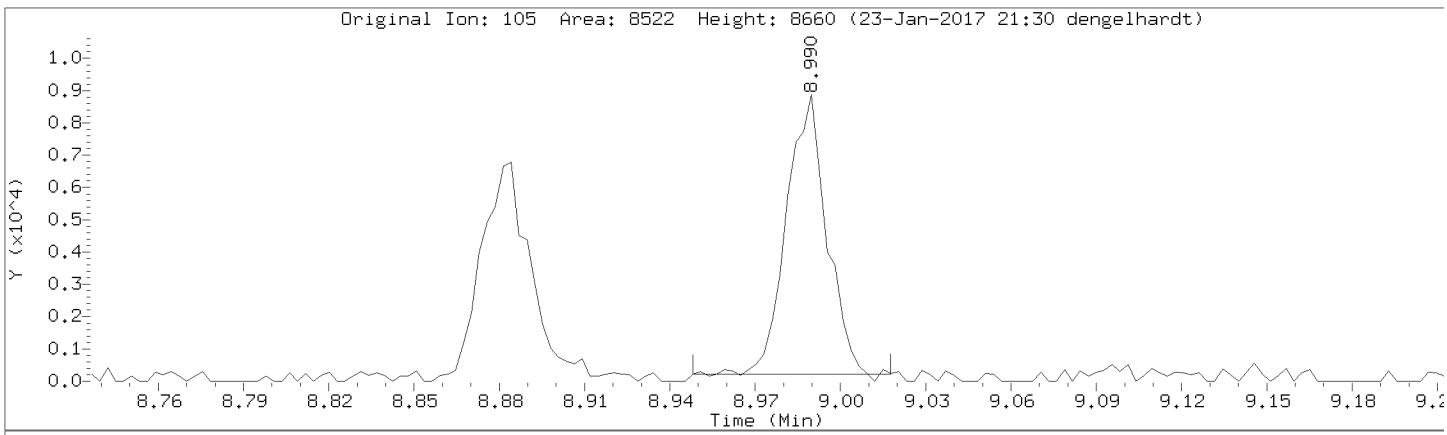
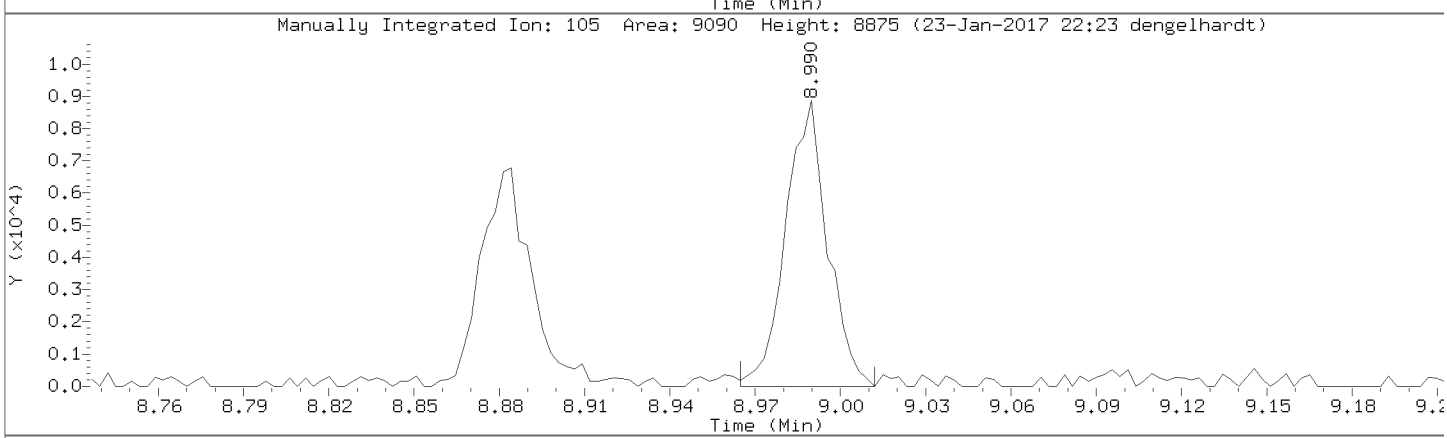
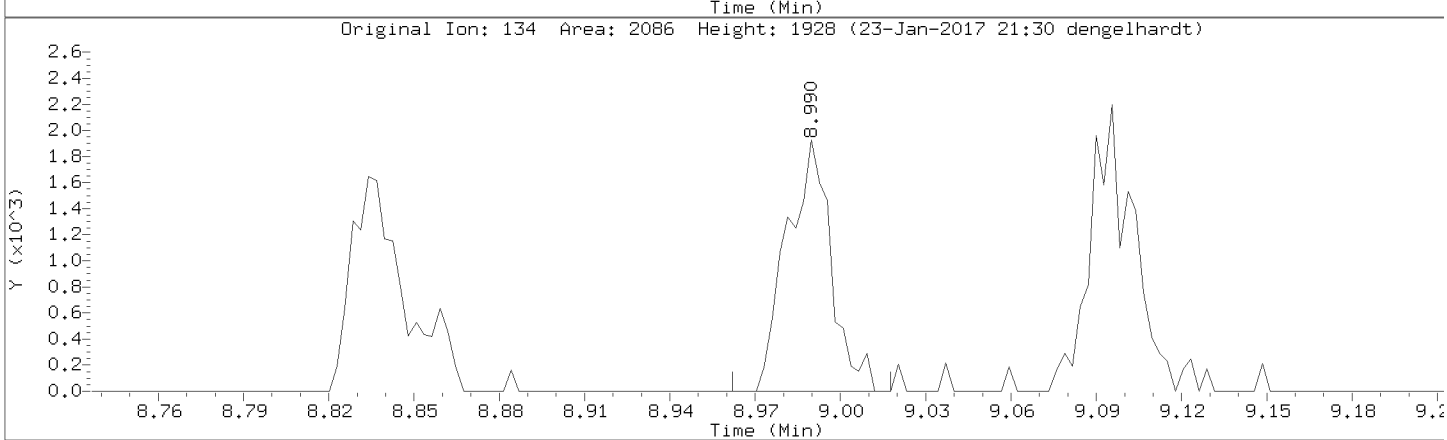
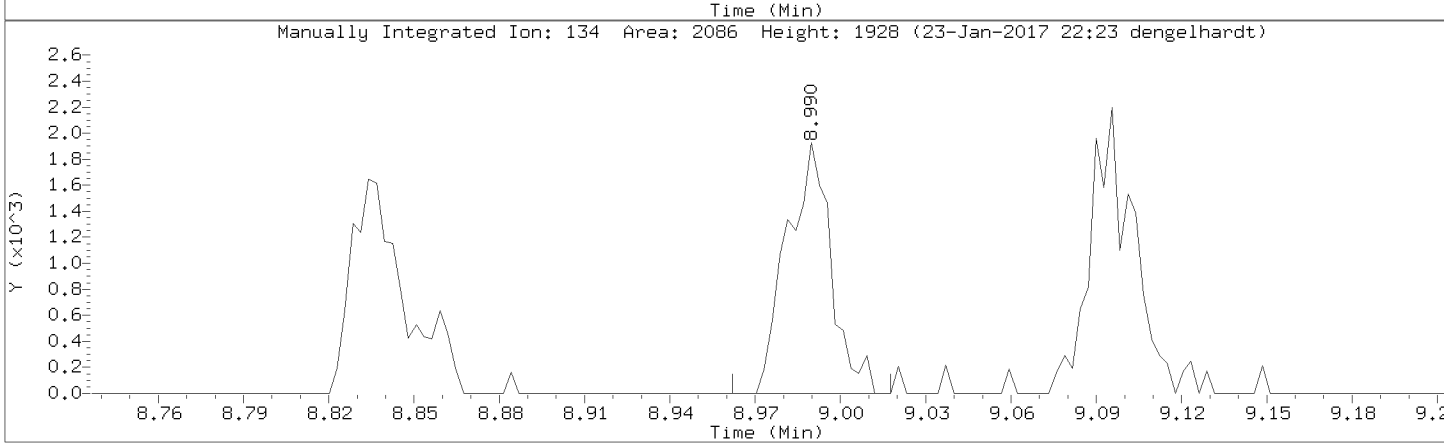
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: sec-Butylbenzene Review Code: LT
CAS Number: 135-98-8









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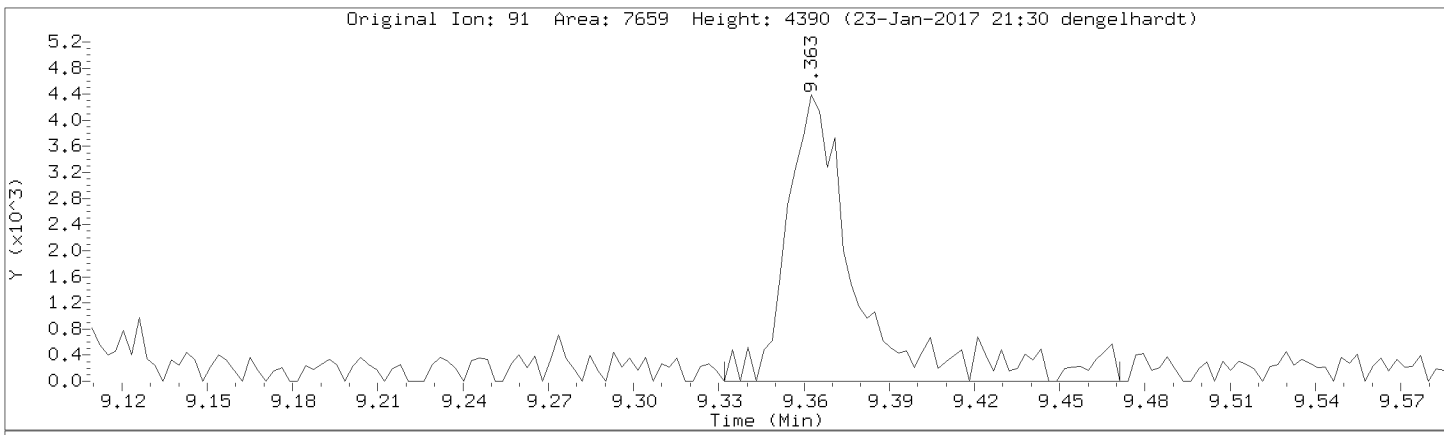
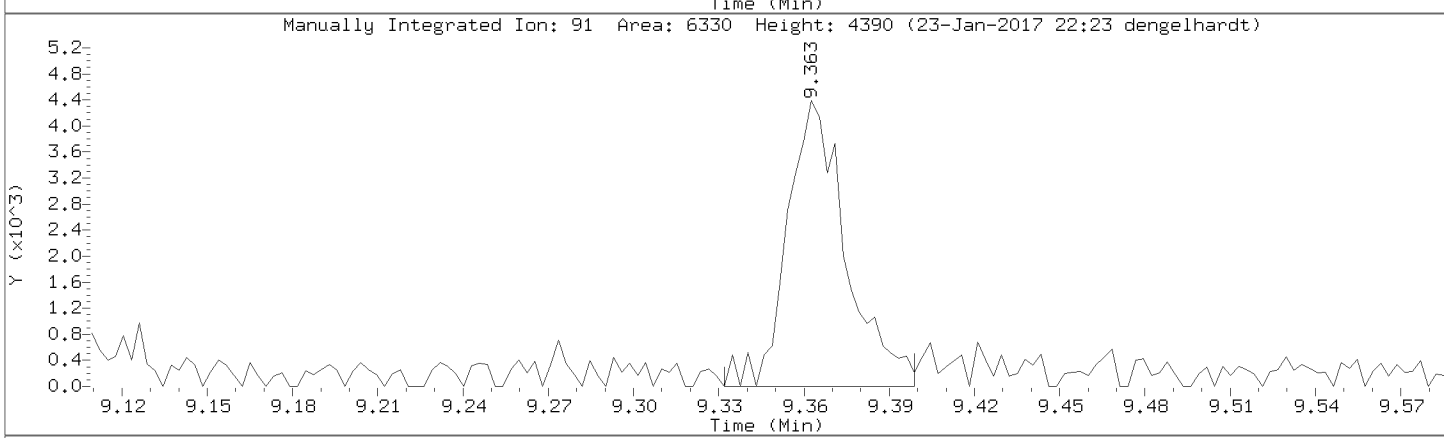
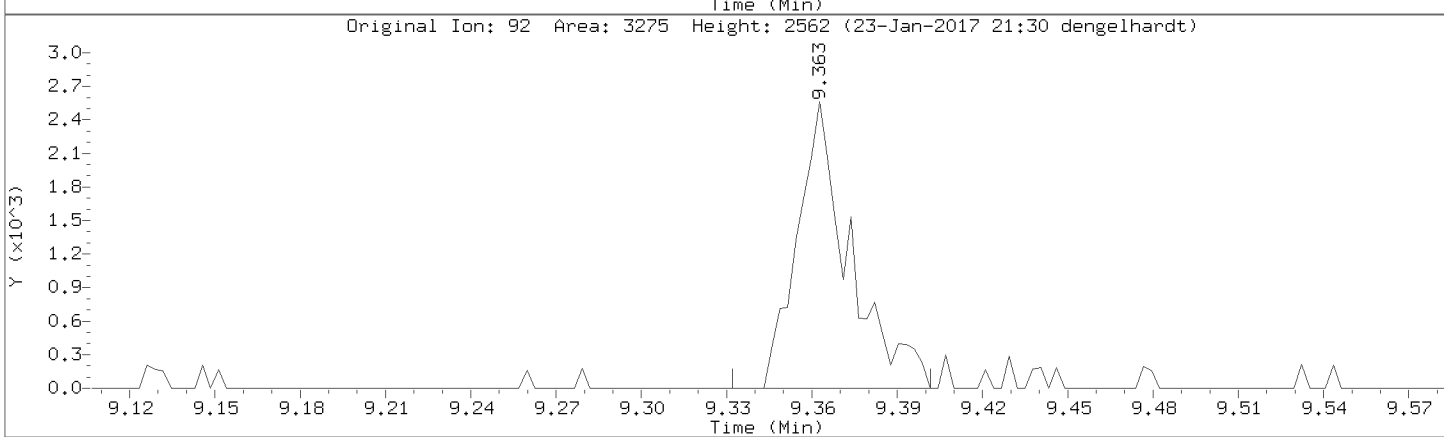
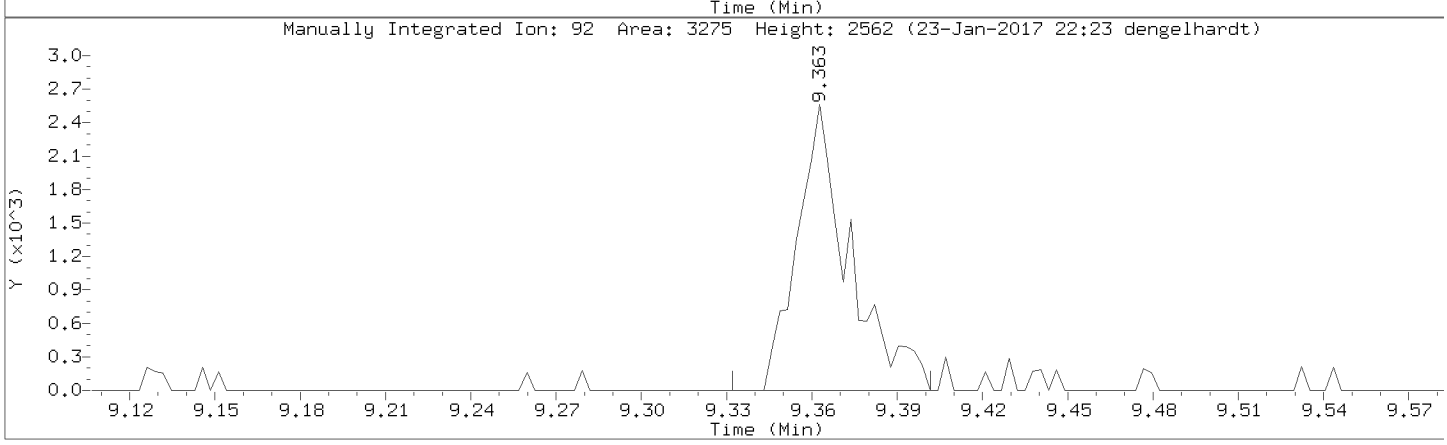
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: n-Butylbenzene Review Code: LT
CAS Number: 104-51-8









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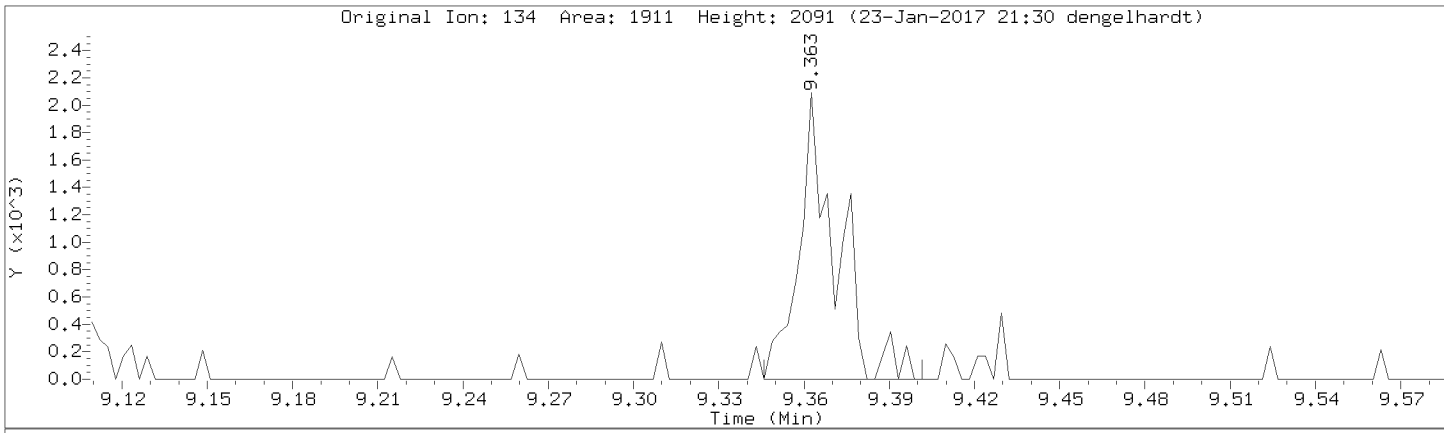
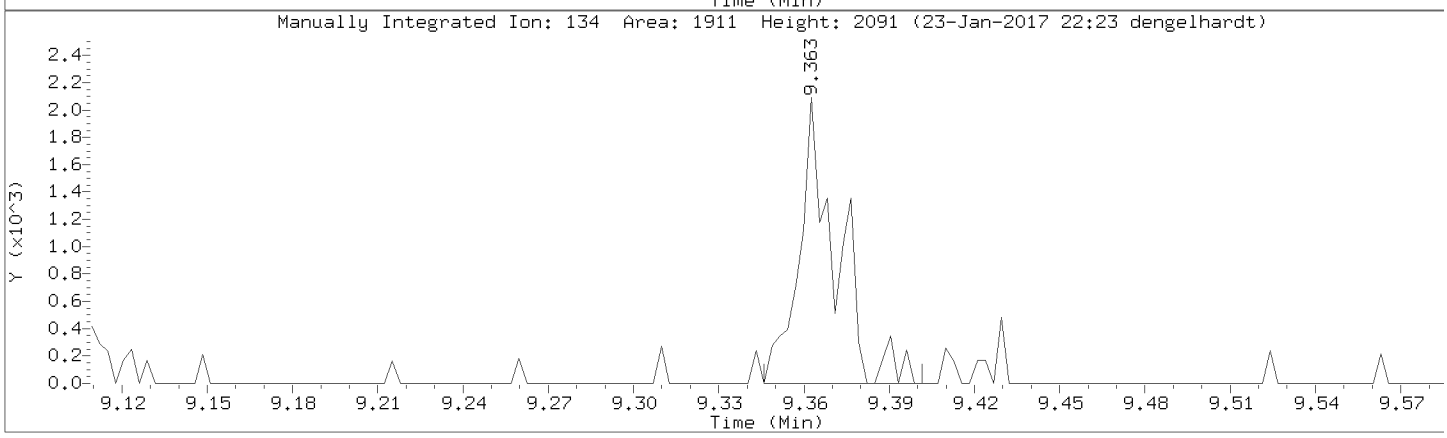
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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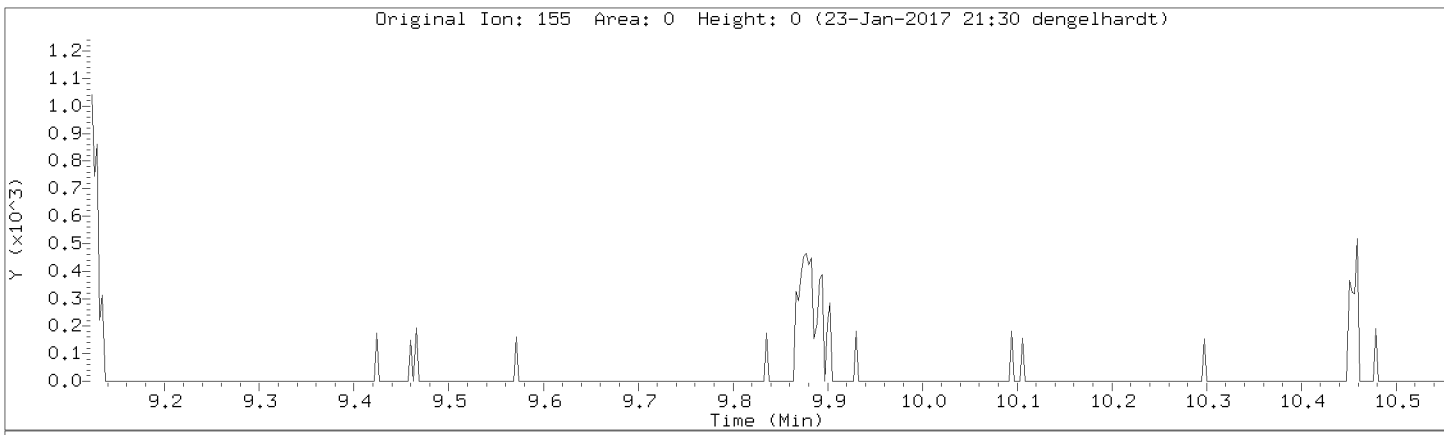
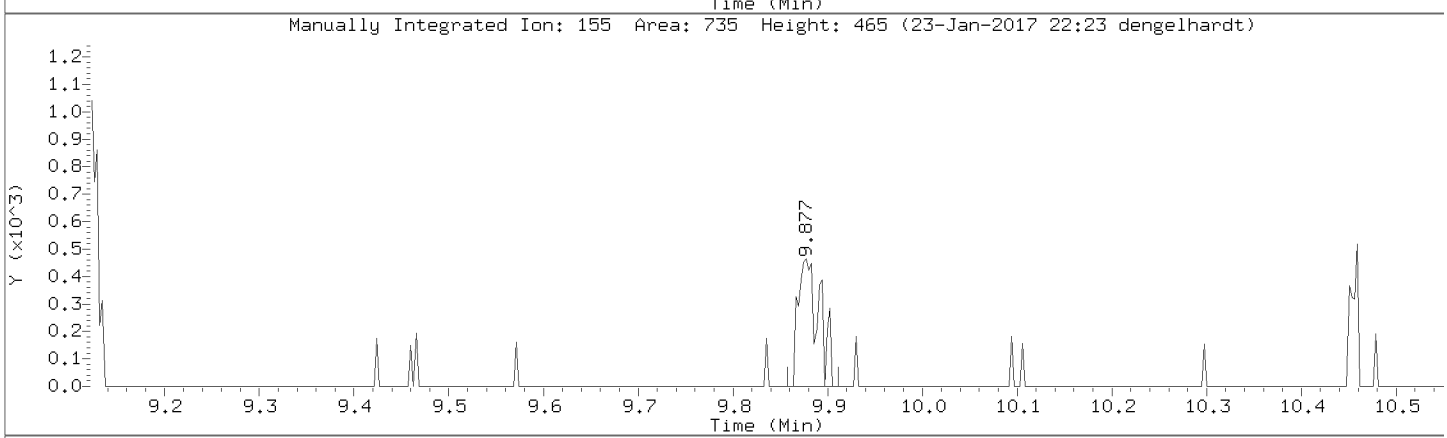
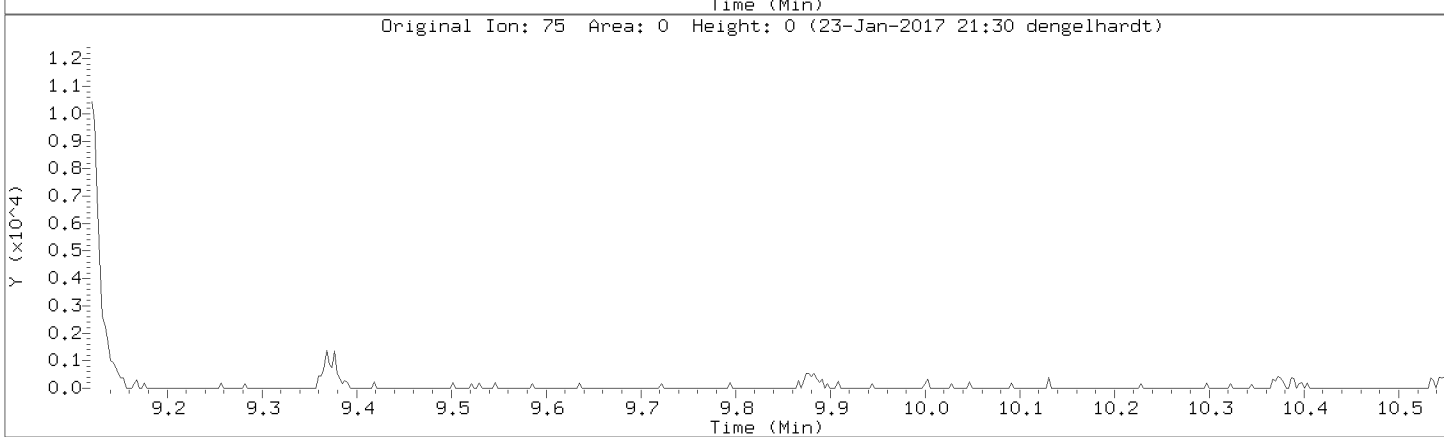
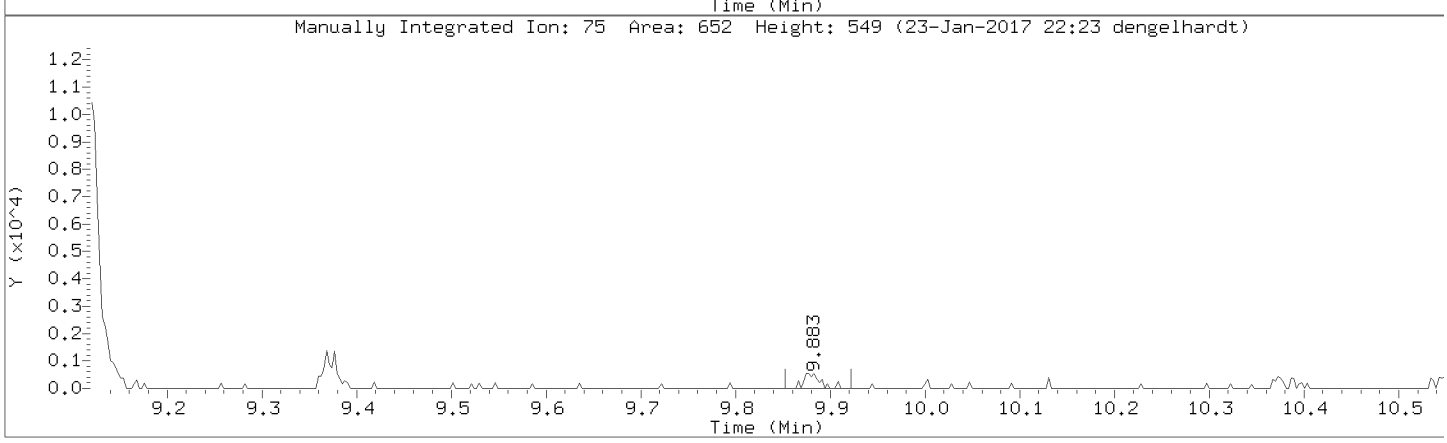
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8









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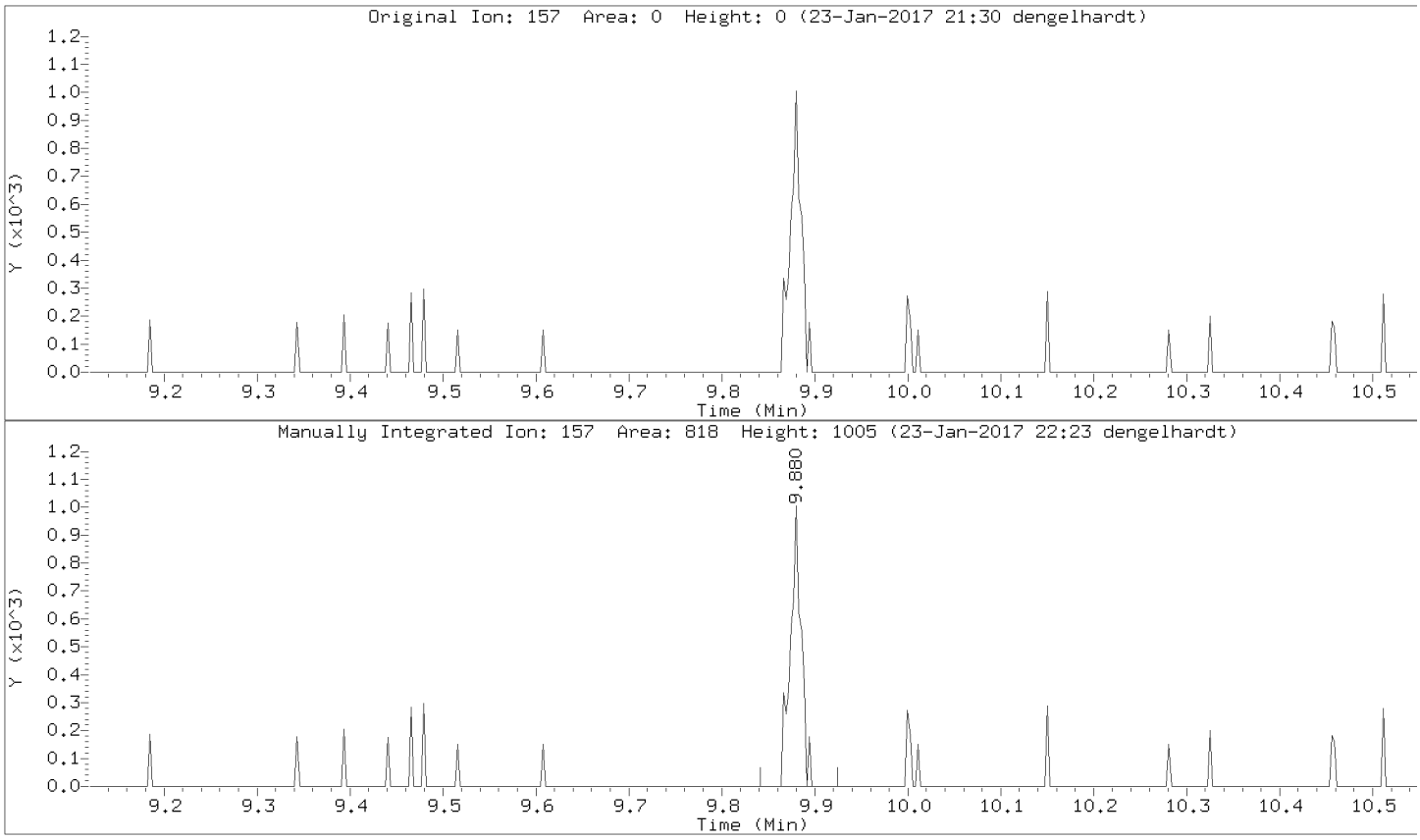
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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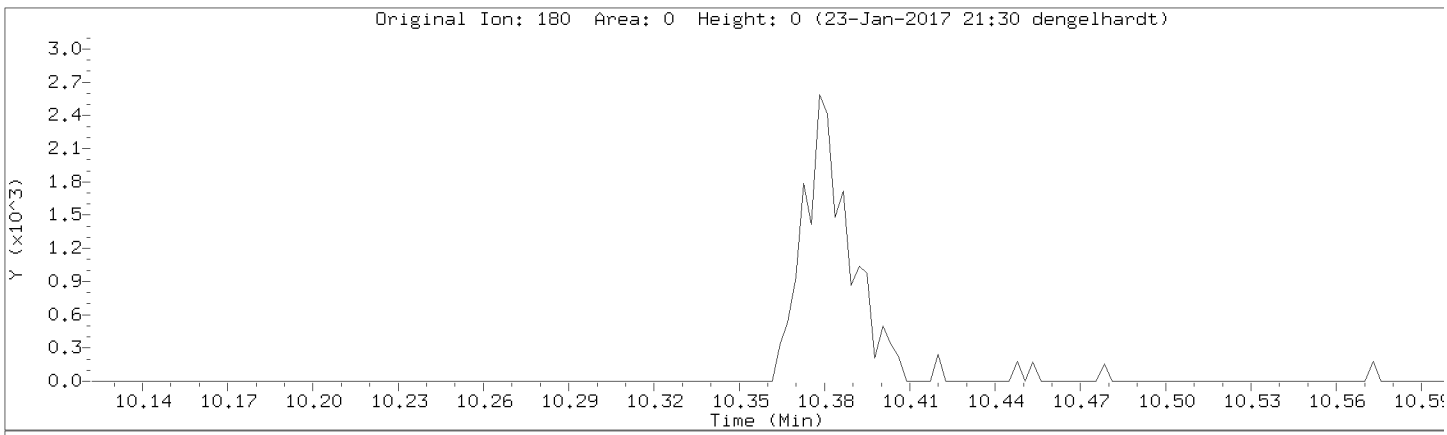
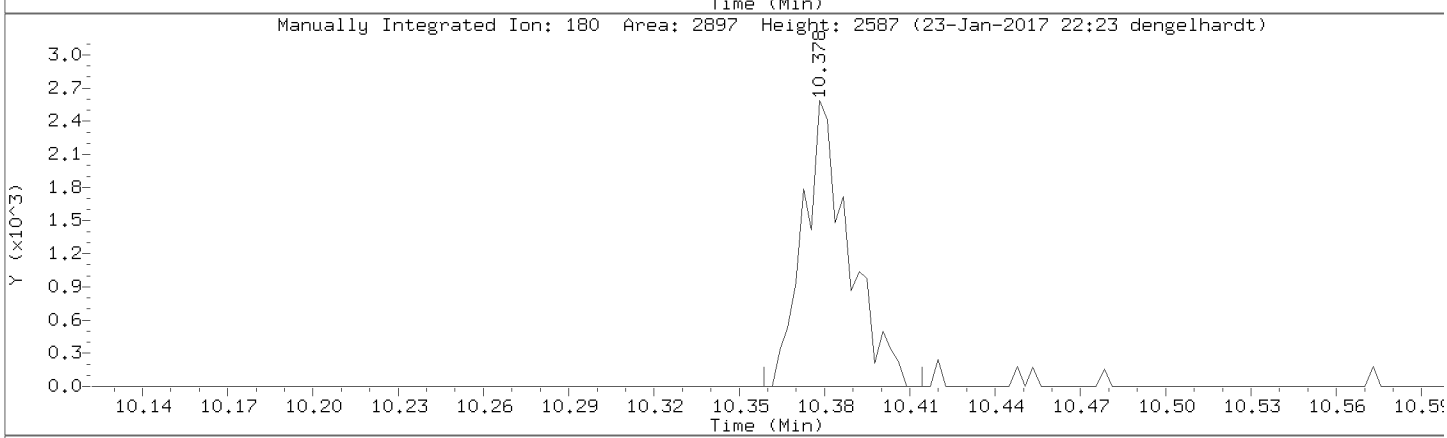
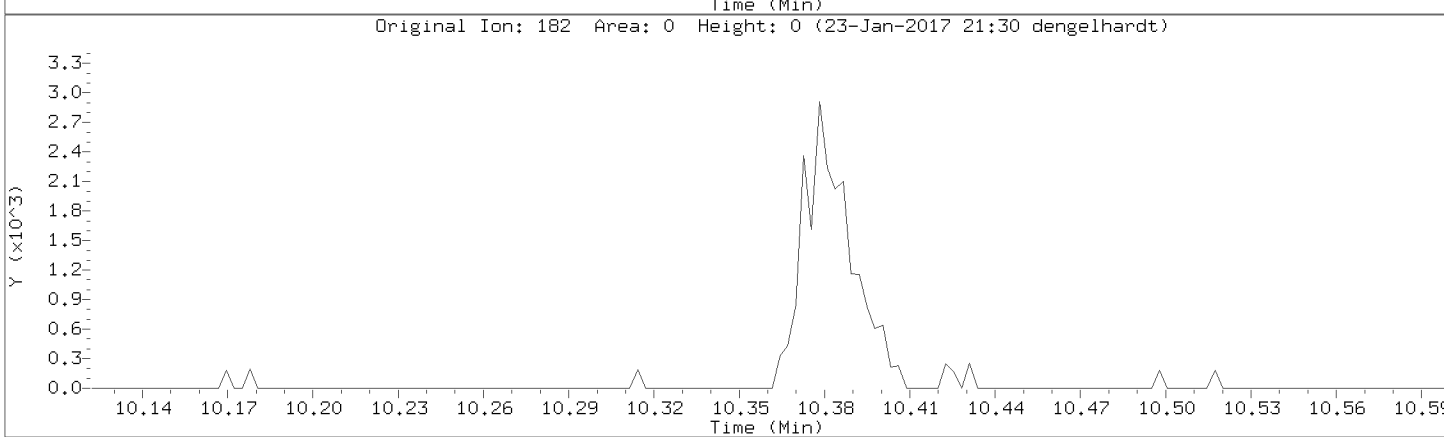
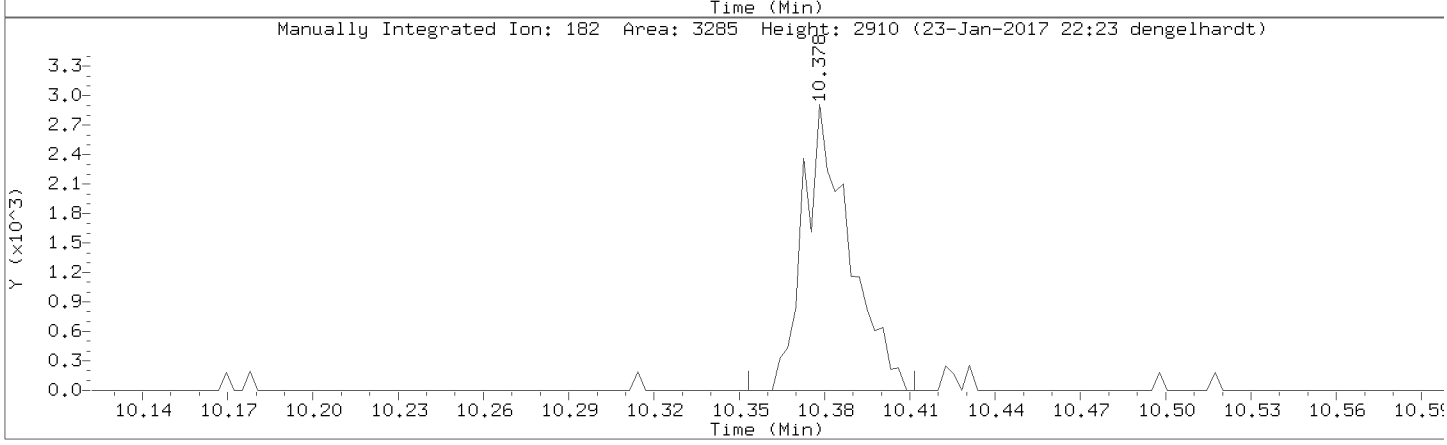
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1

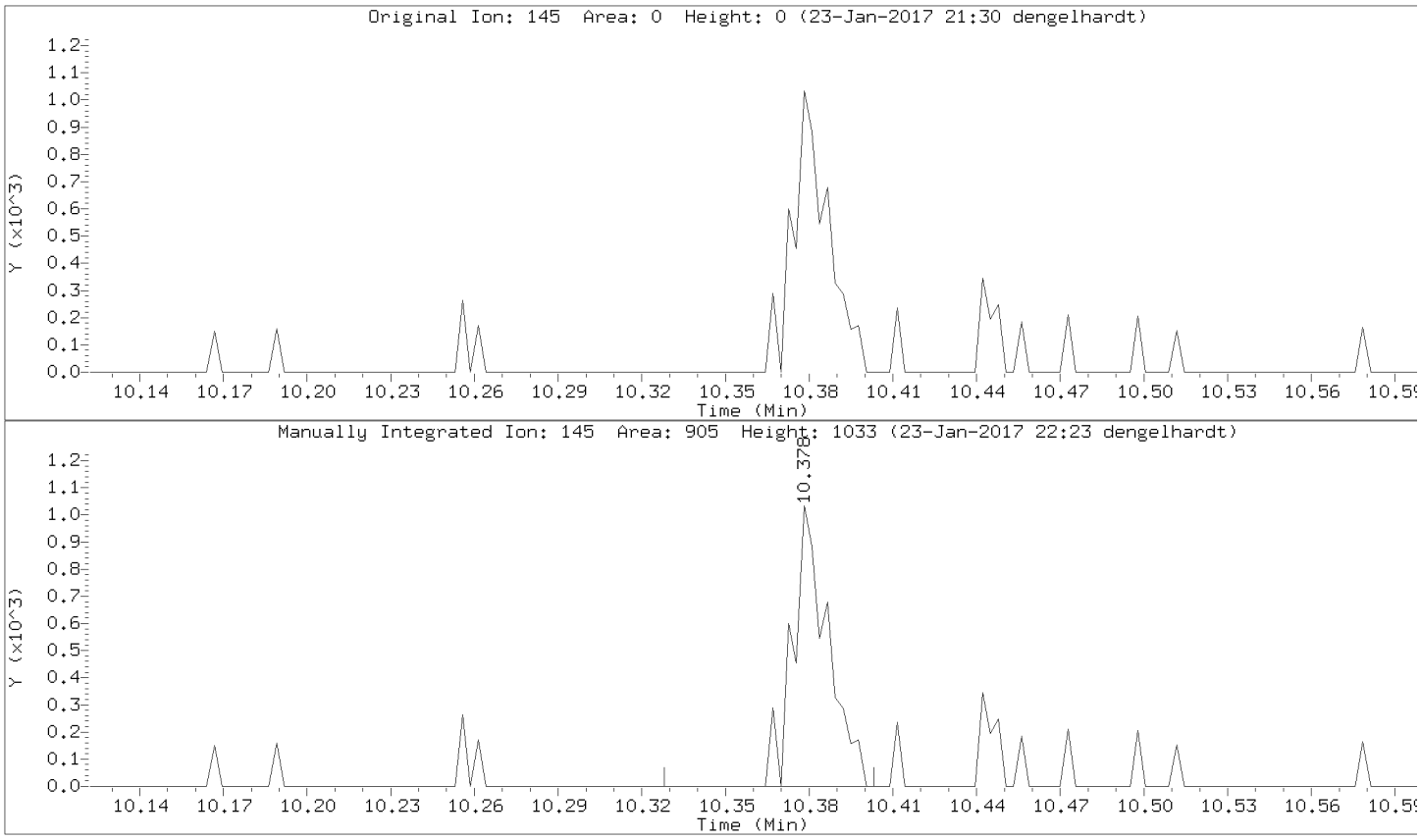






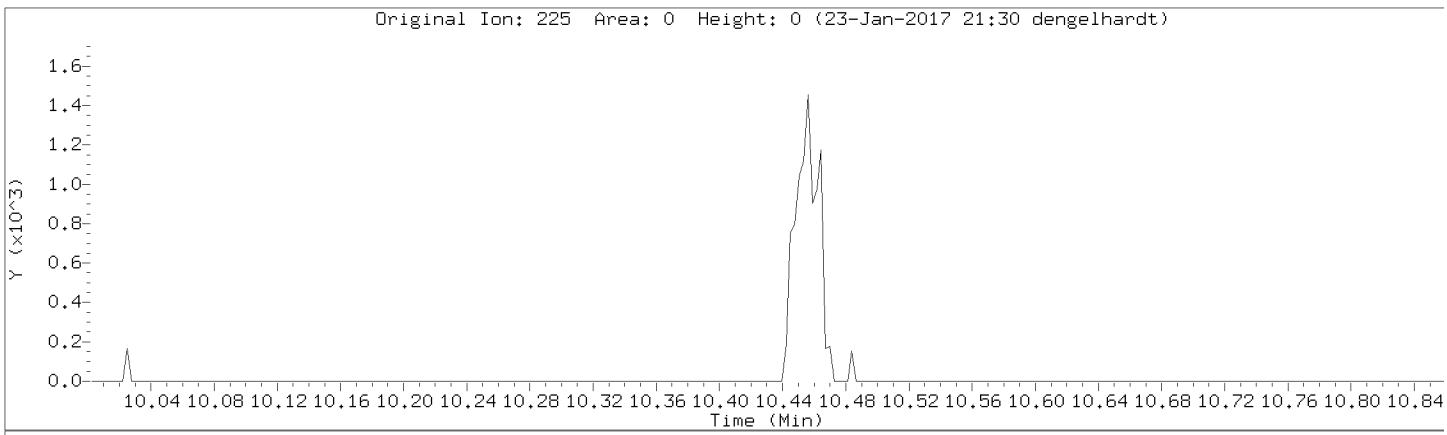


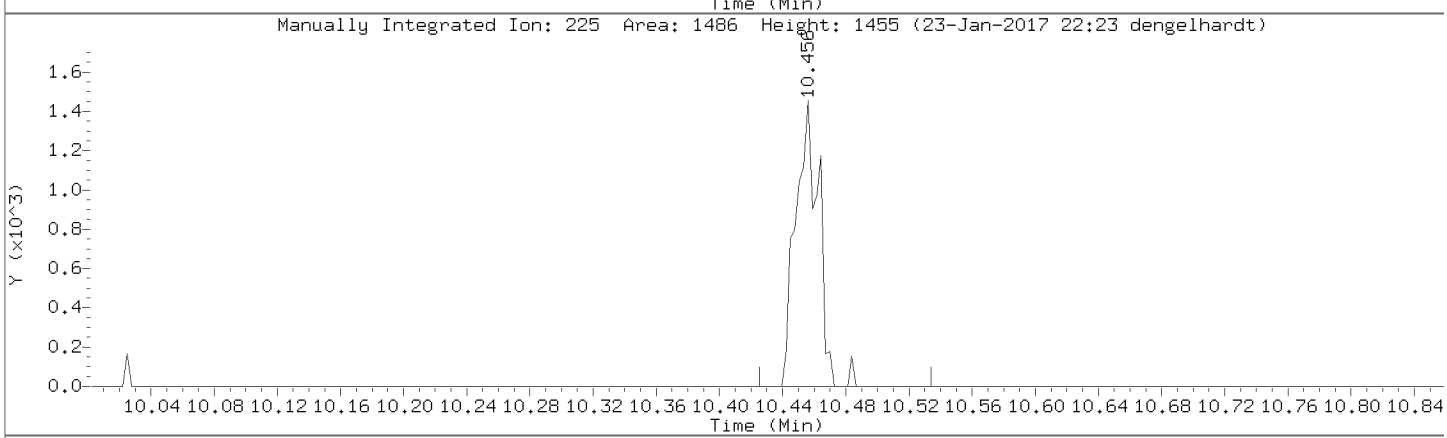
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

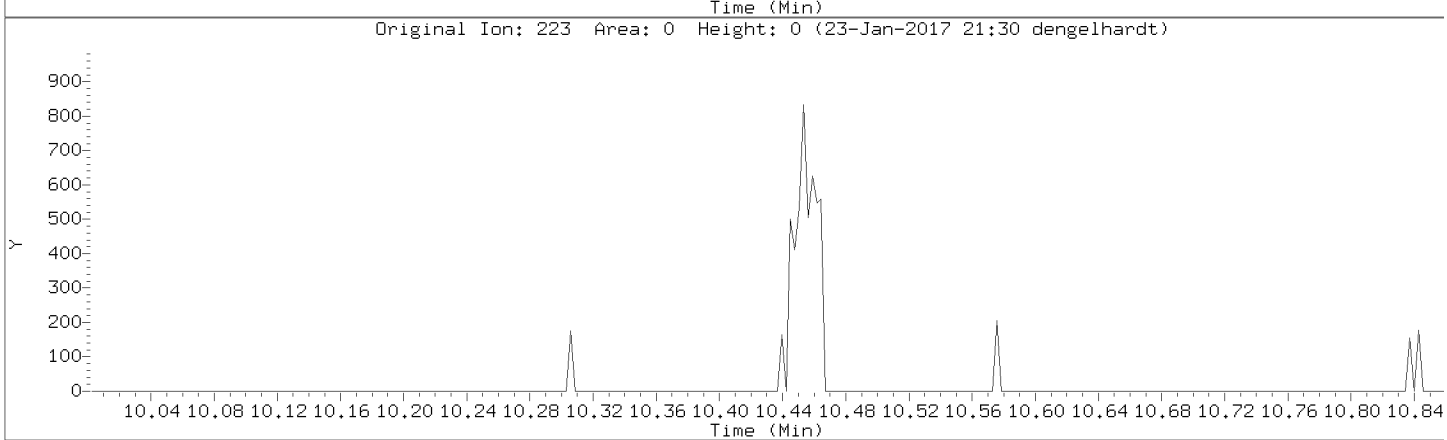


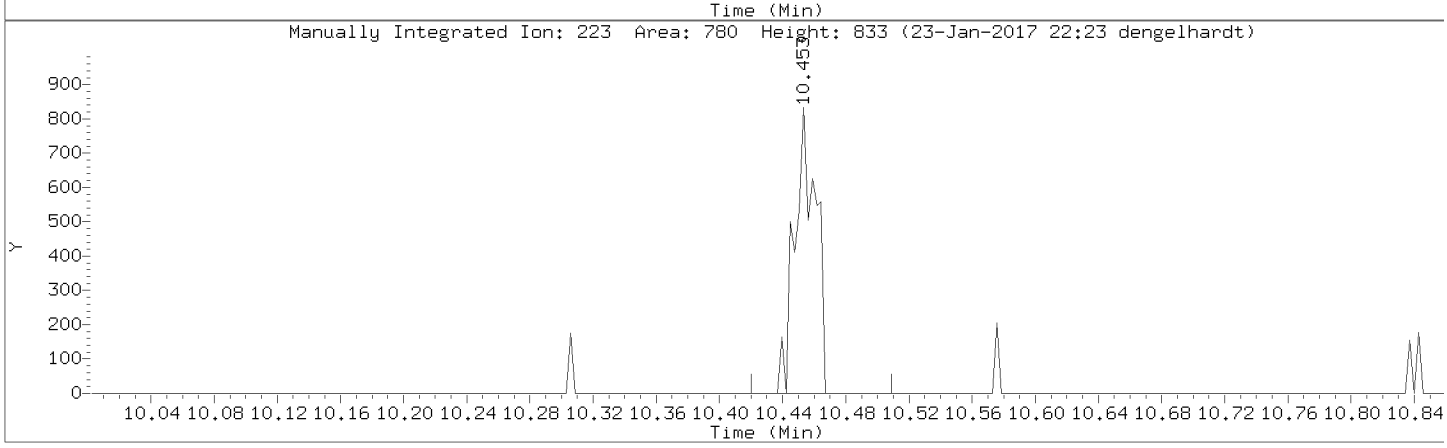
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3









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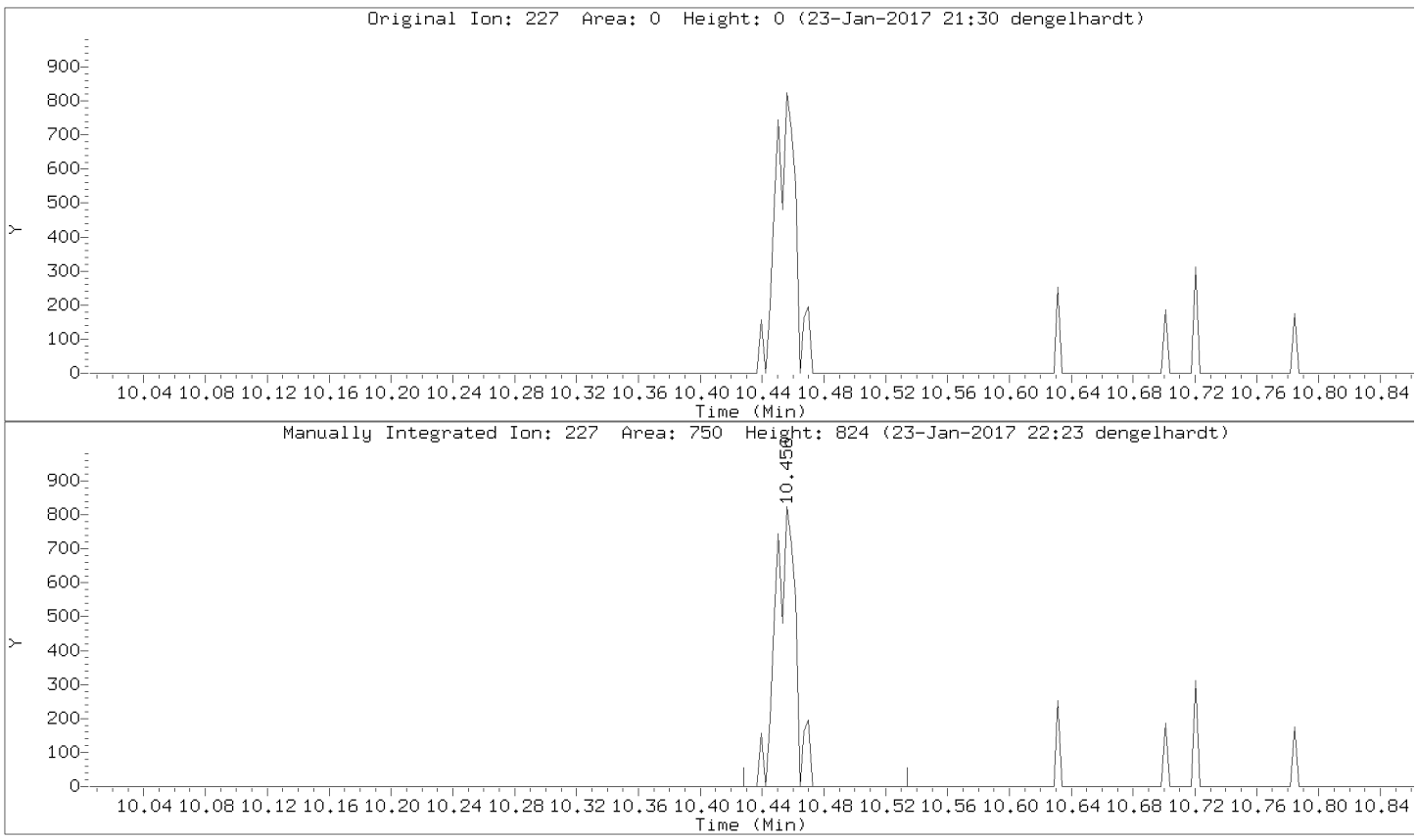
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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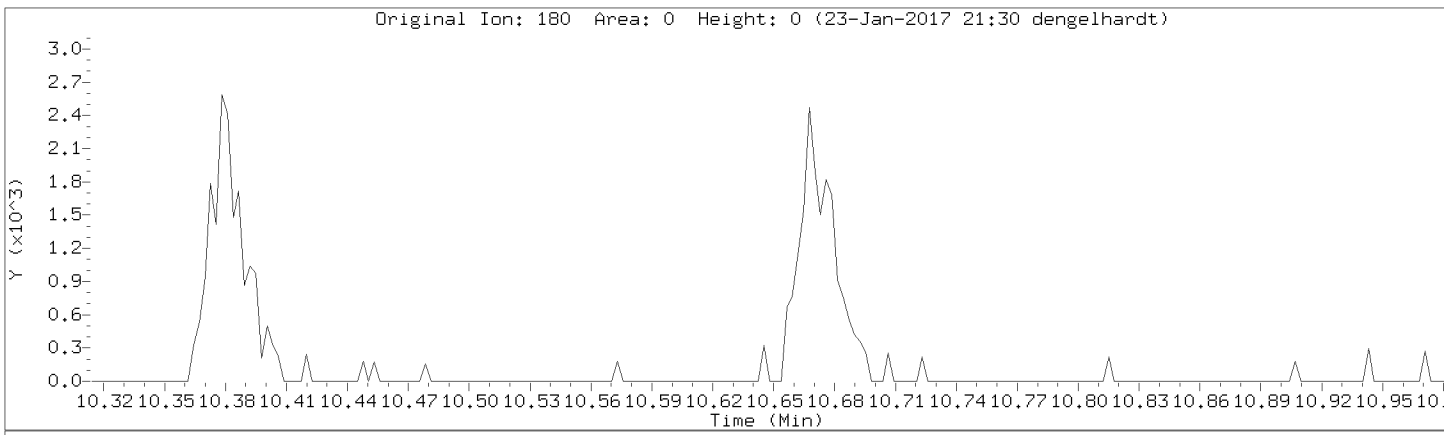
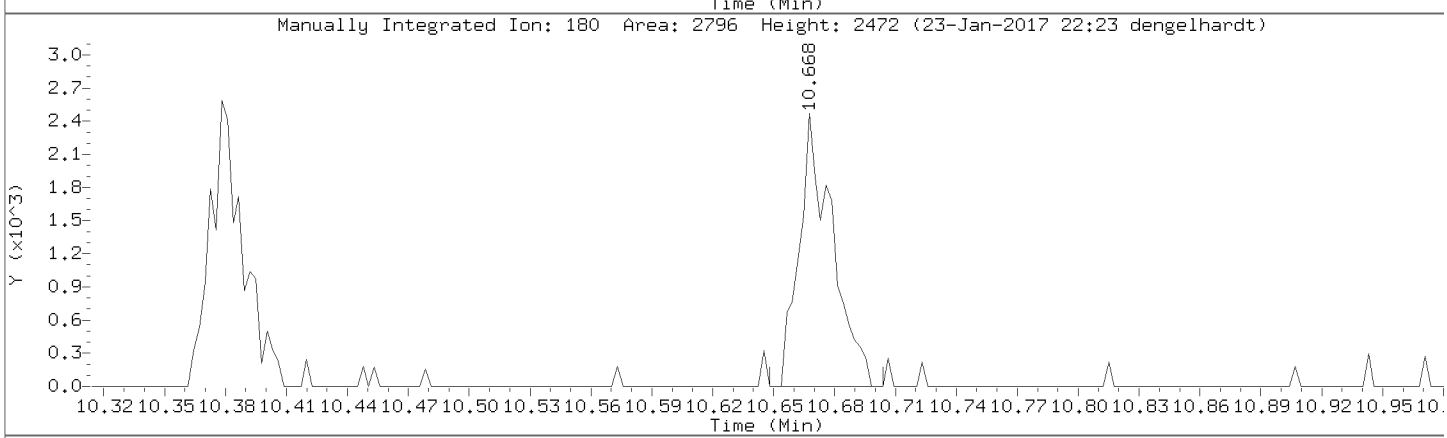
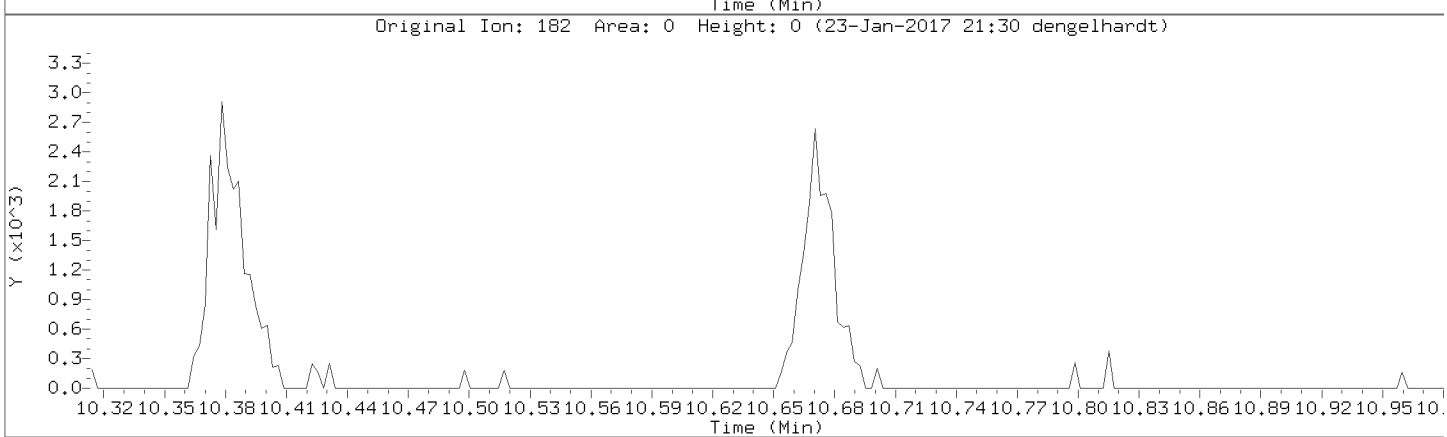
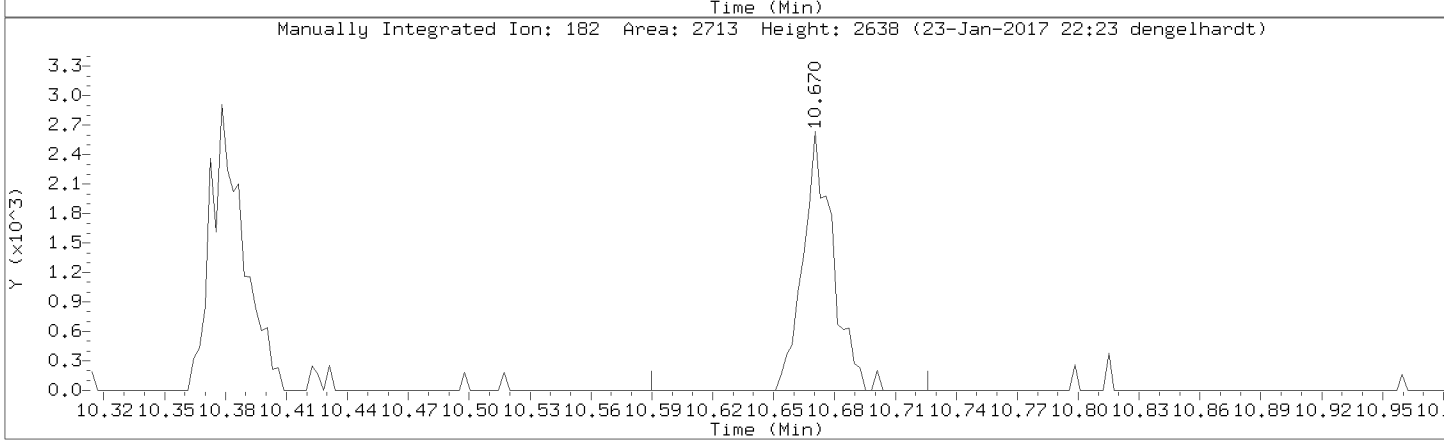
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trichlorobenzene Review Code: NI
CAS Number: 87-61-6









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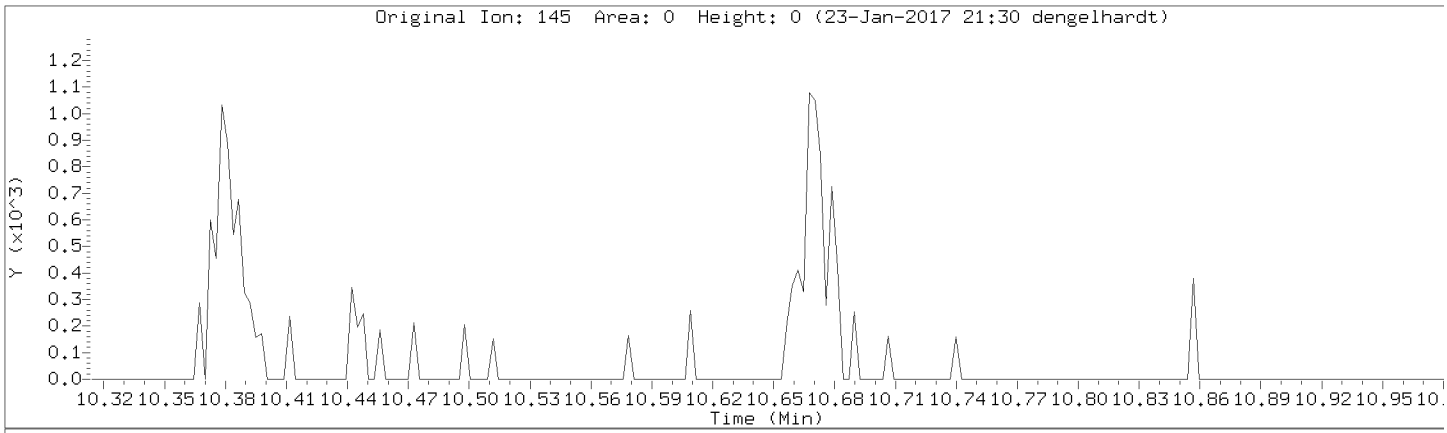
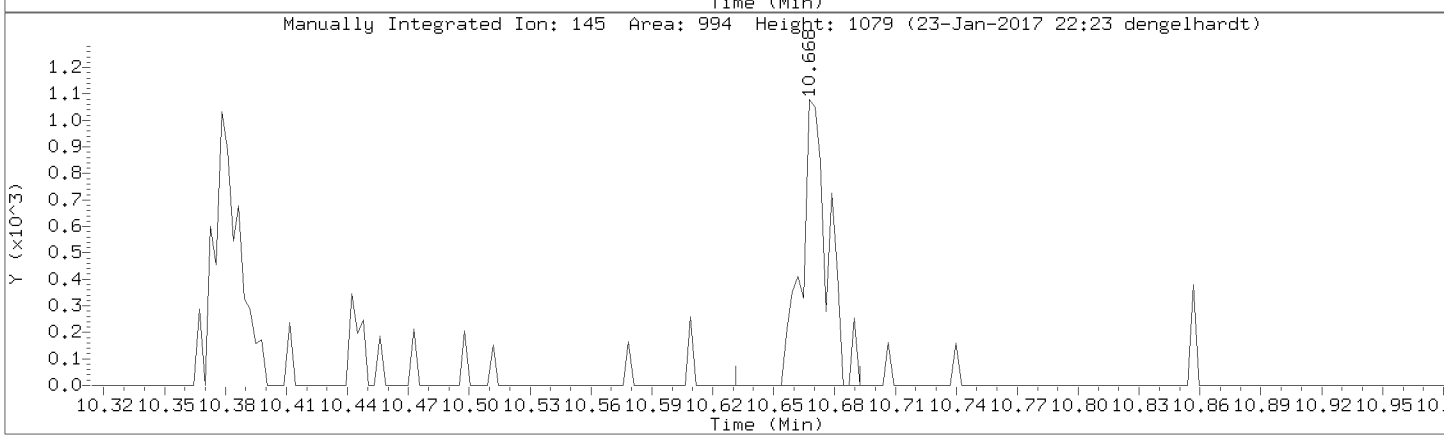
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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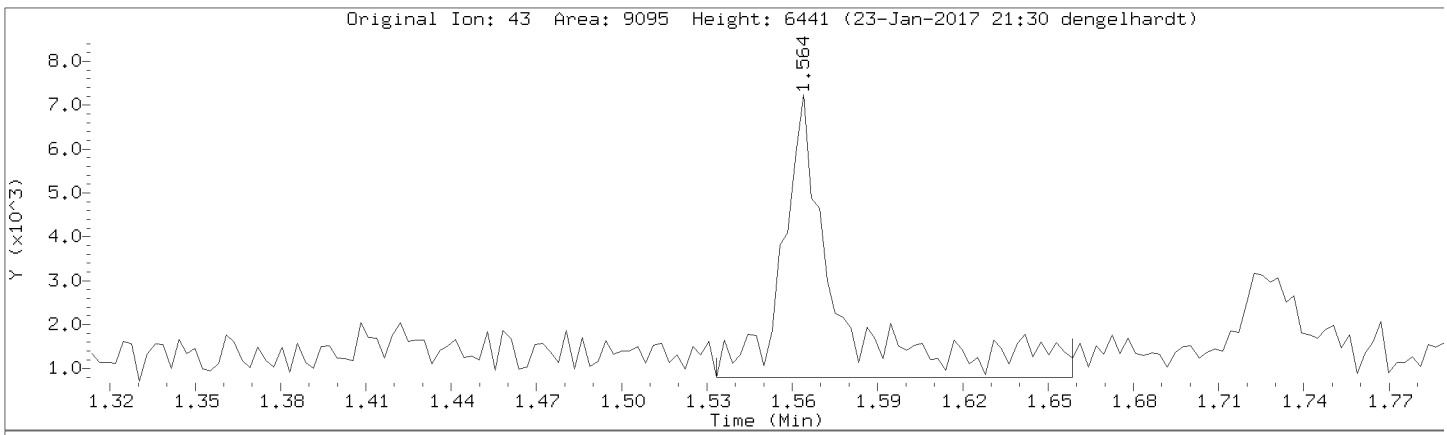
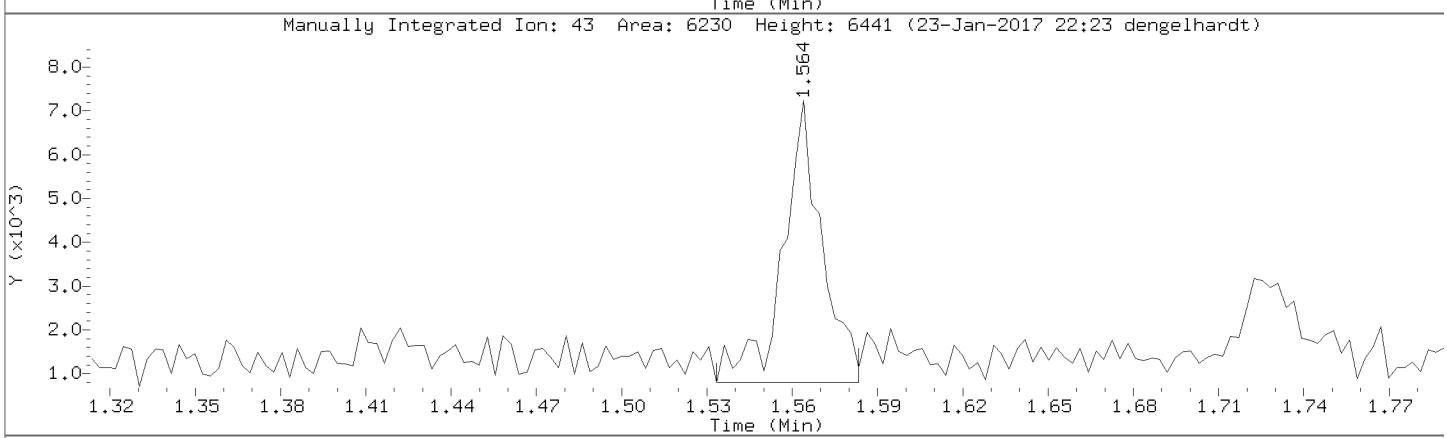
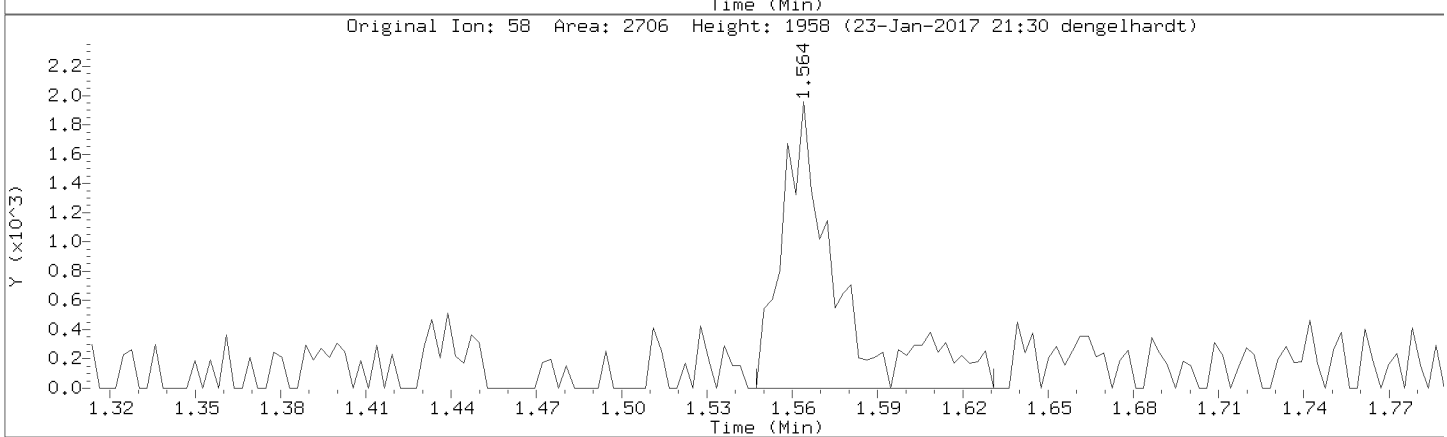
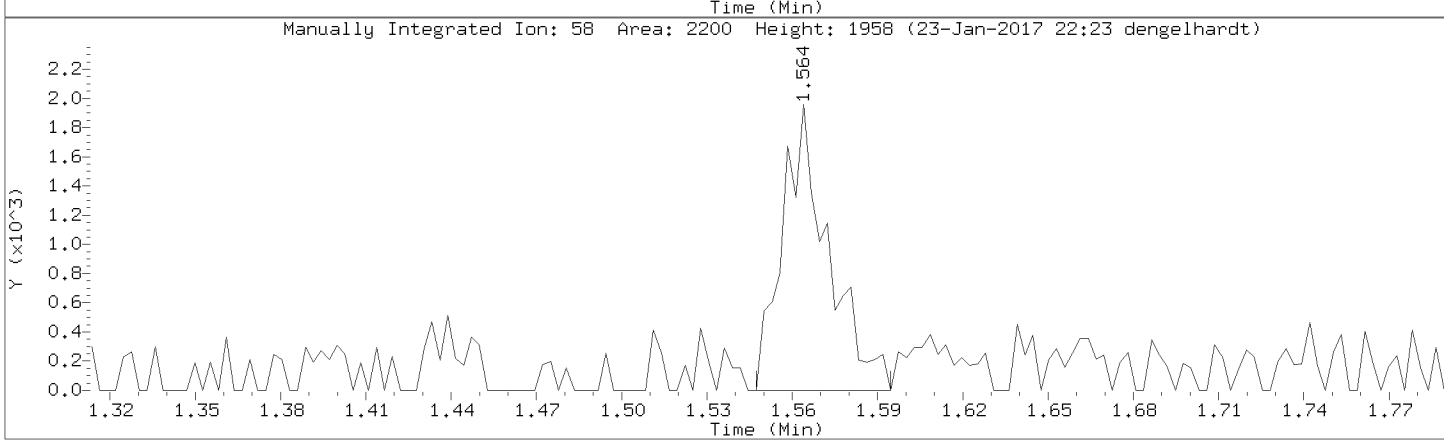
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Acetone Review Code: GT
CAS Number: 67-64-1









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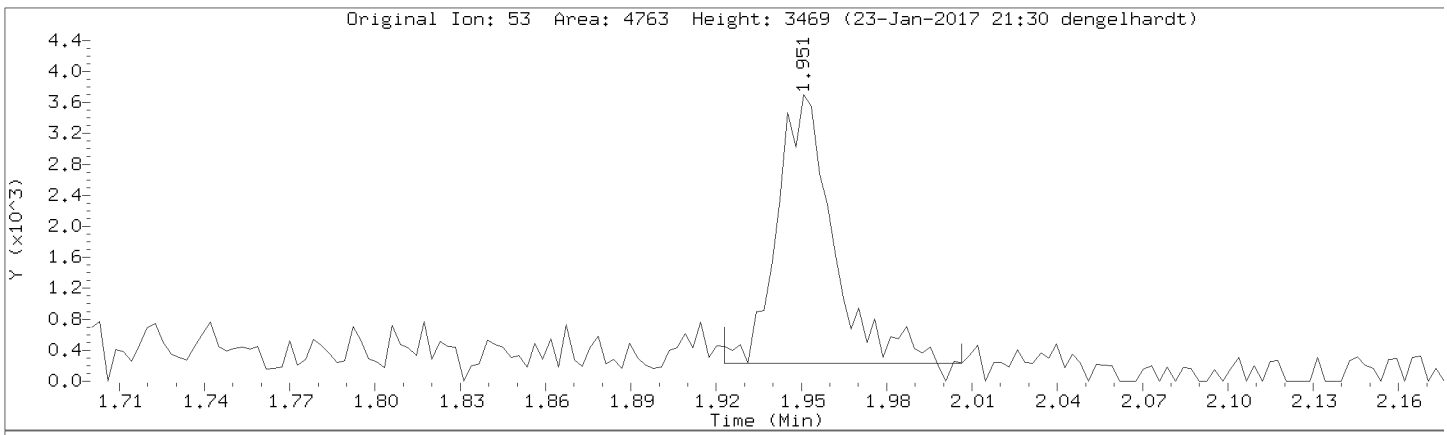
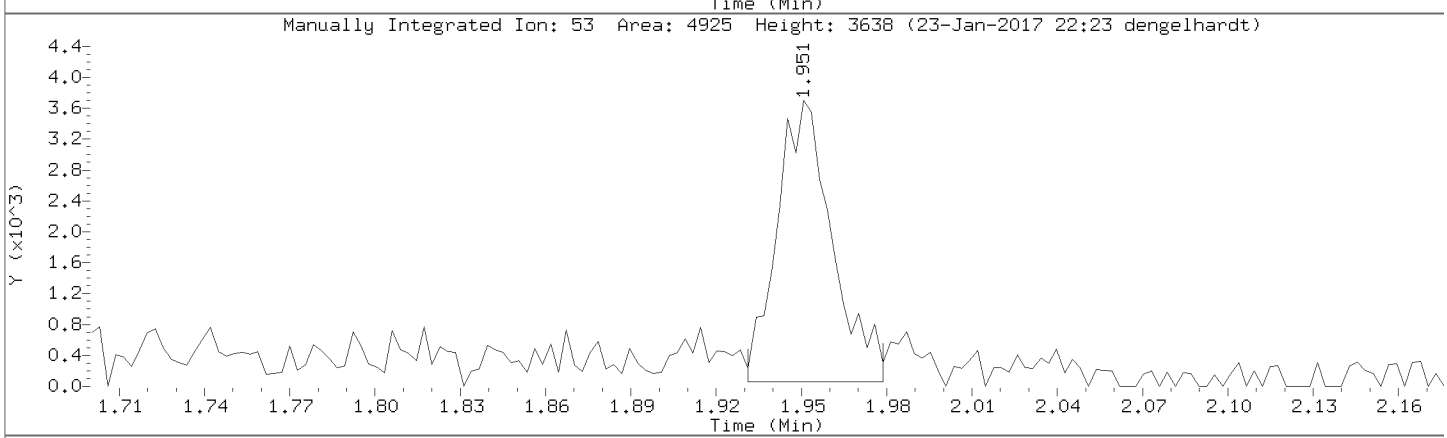
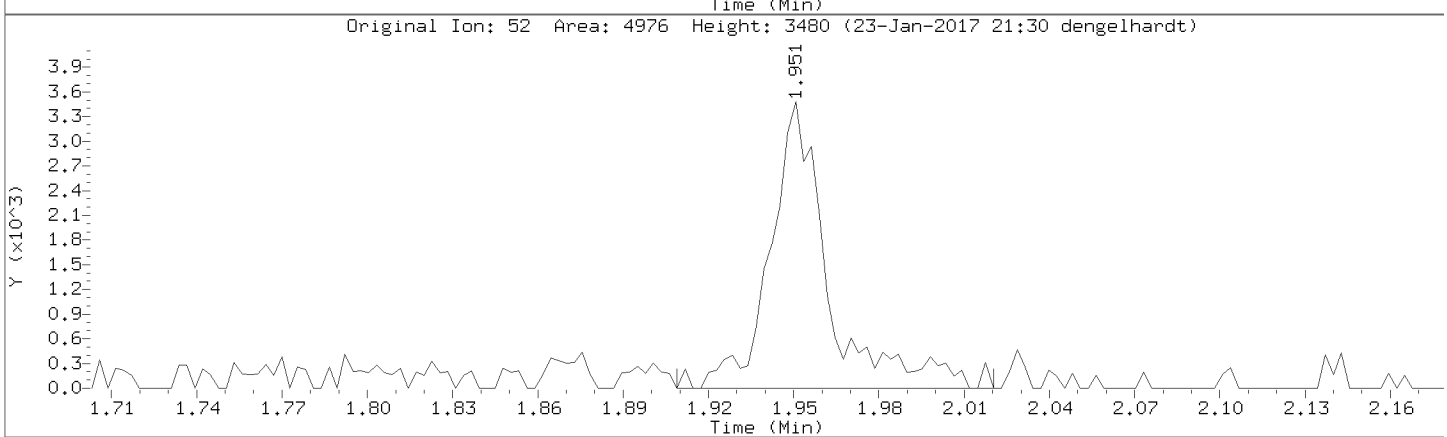
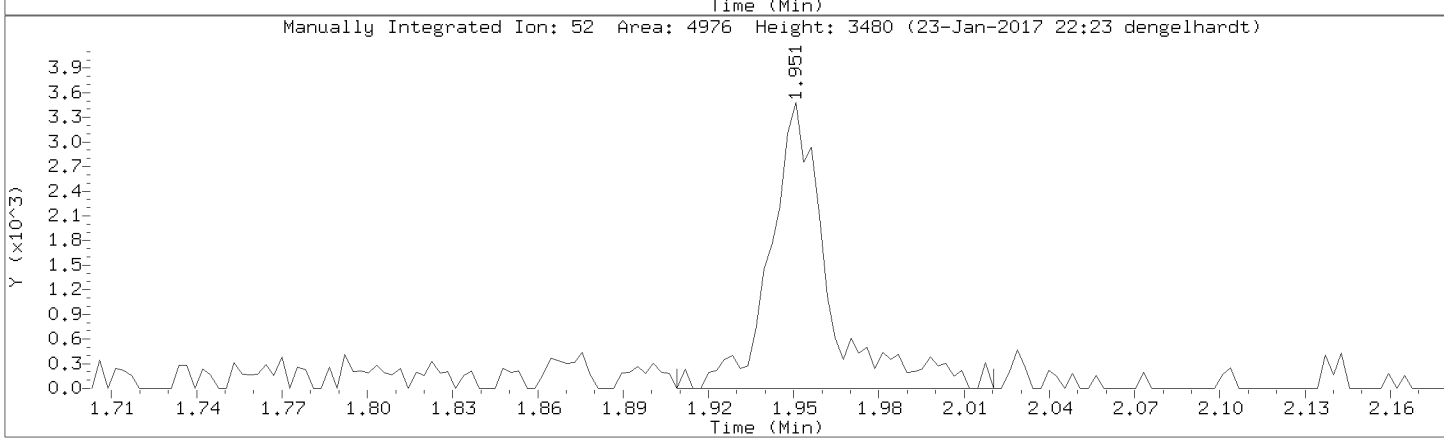
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Acrylonitrile Review Code: LT
CAS Number: 107-13-1



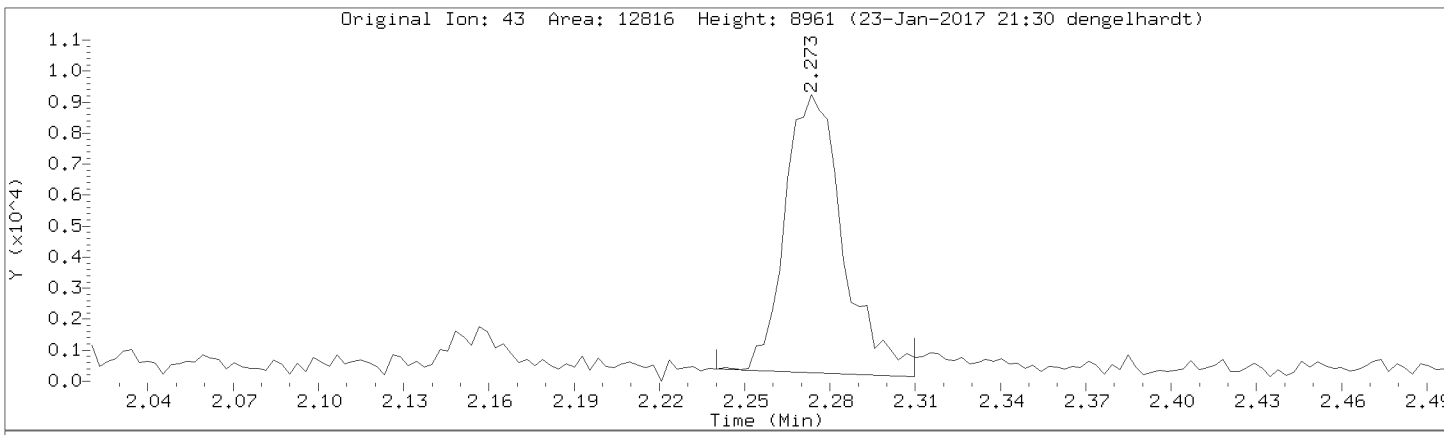


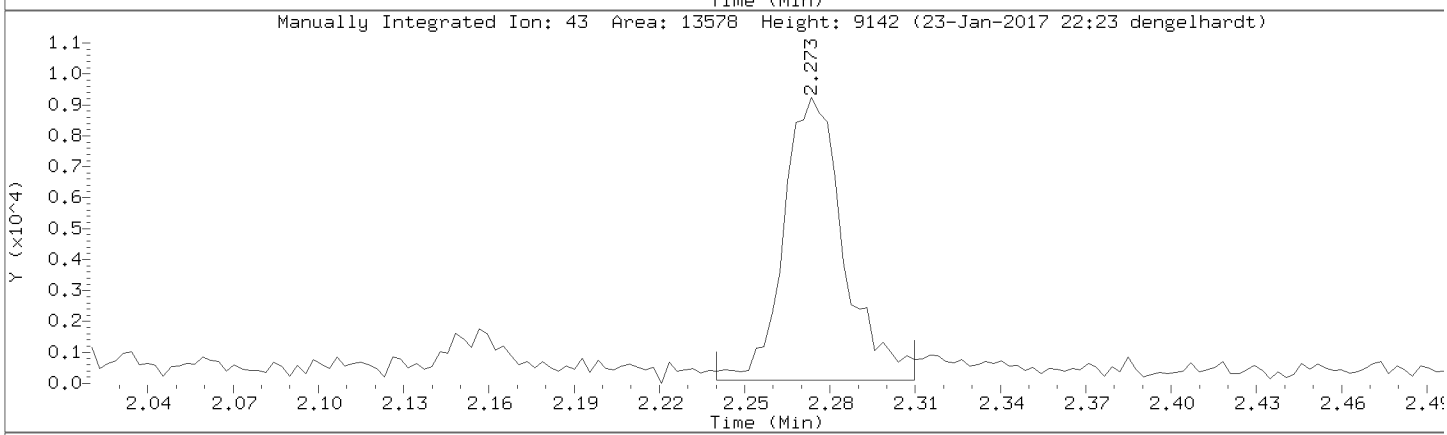


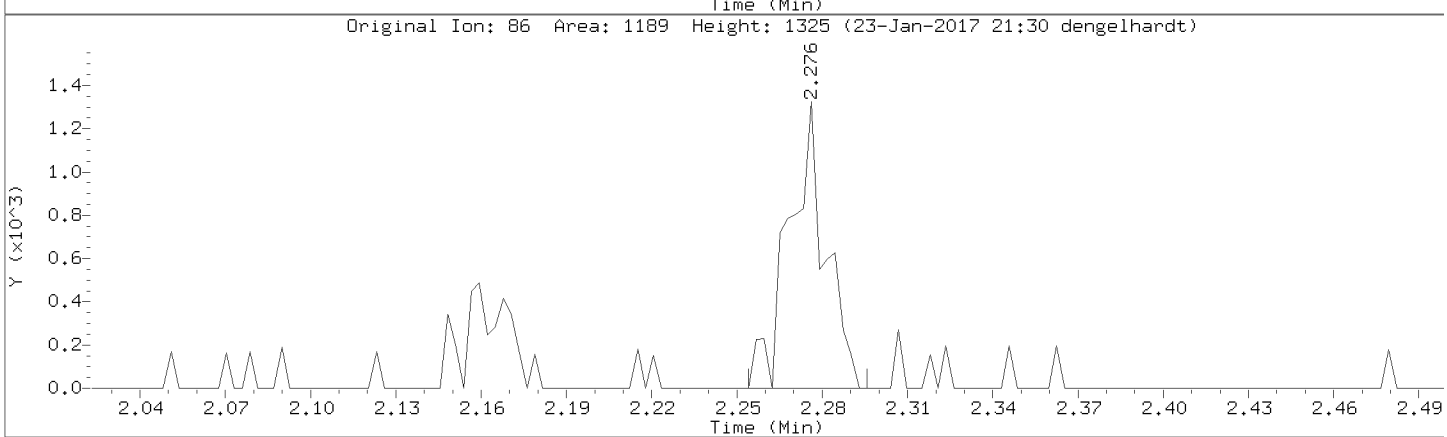


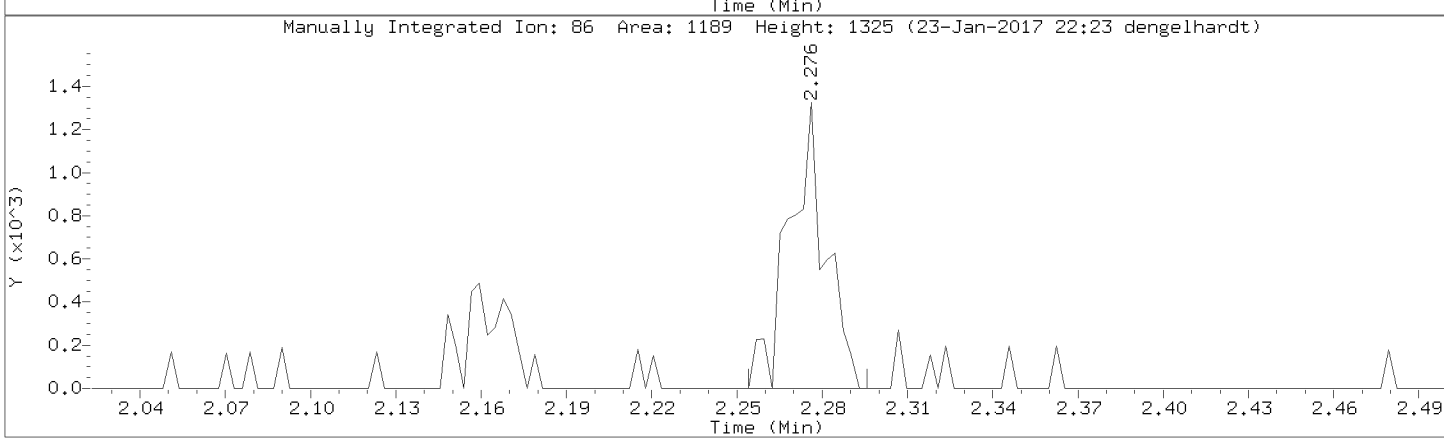
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Vinyl Acetate Review Code: LT
CAS Number: 108-05-4









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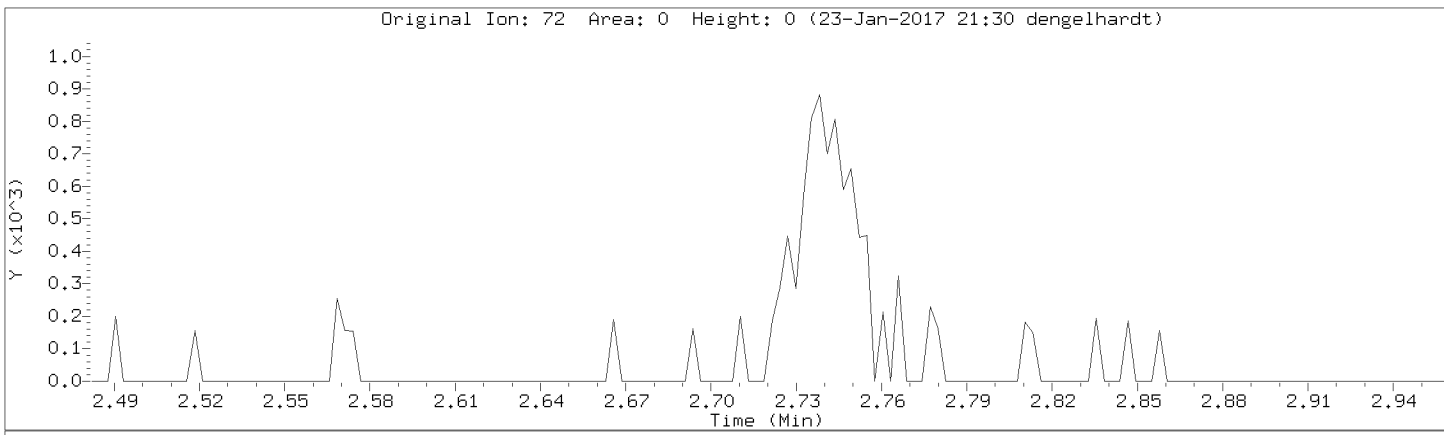
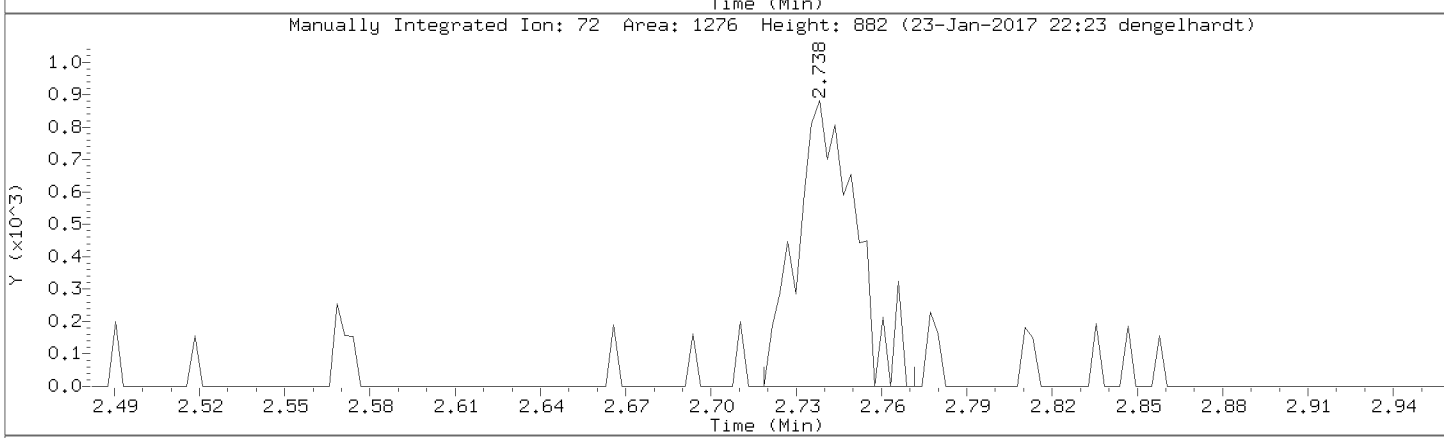
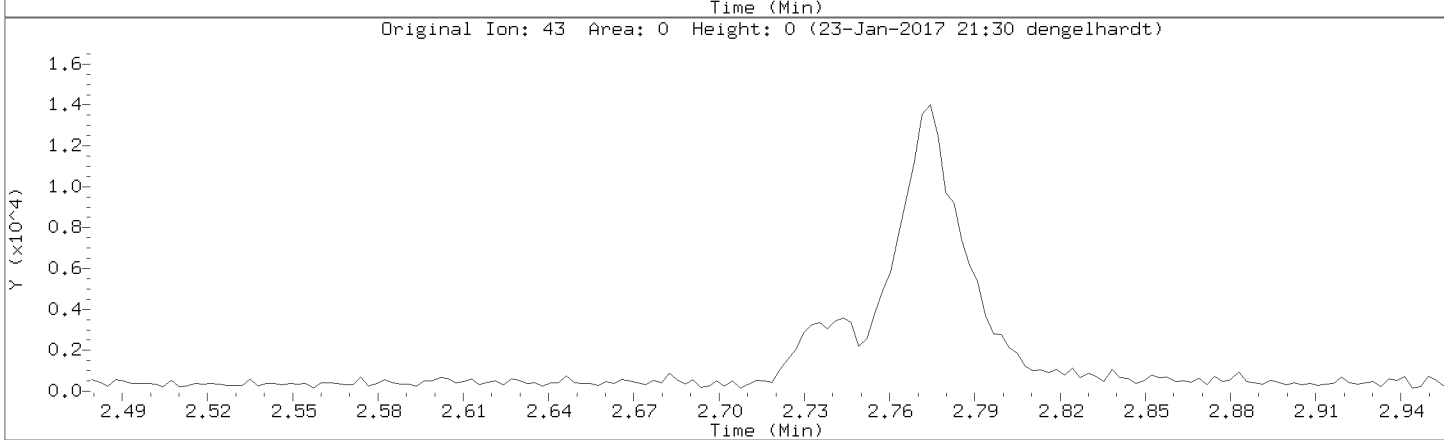
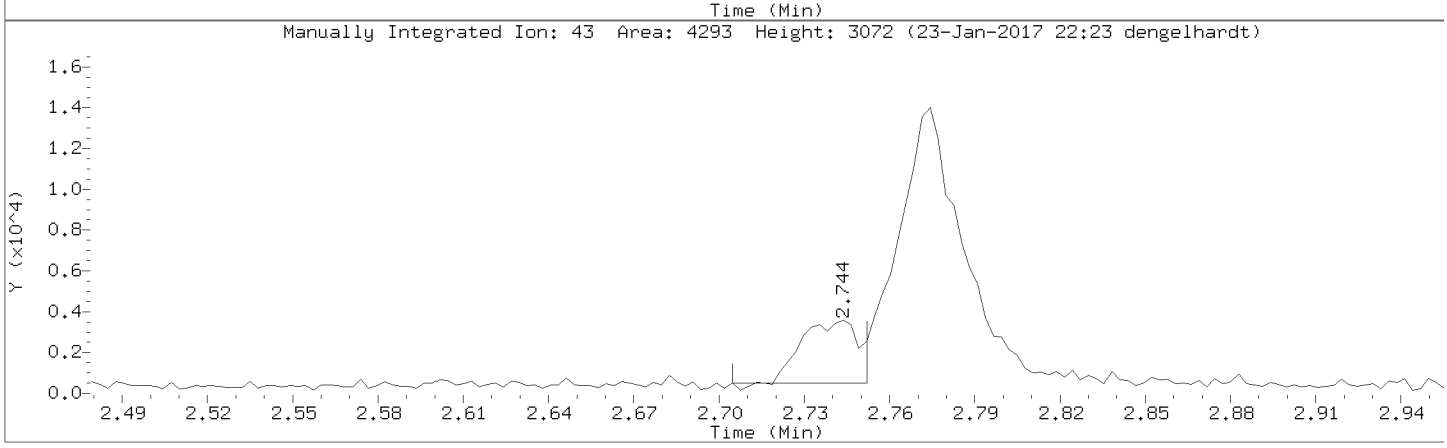
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3









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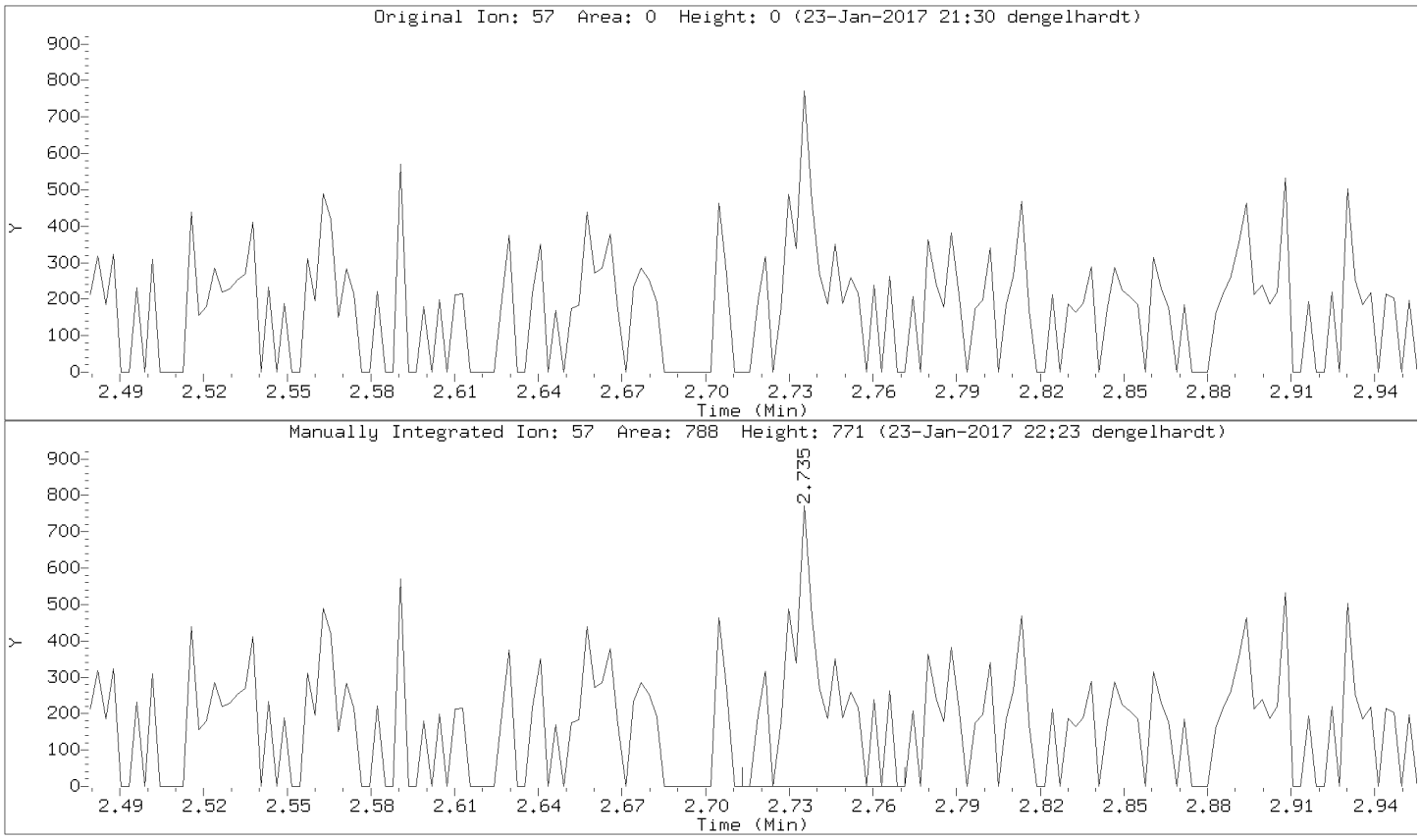
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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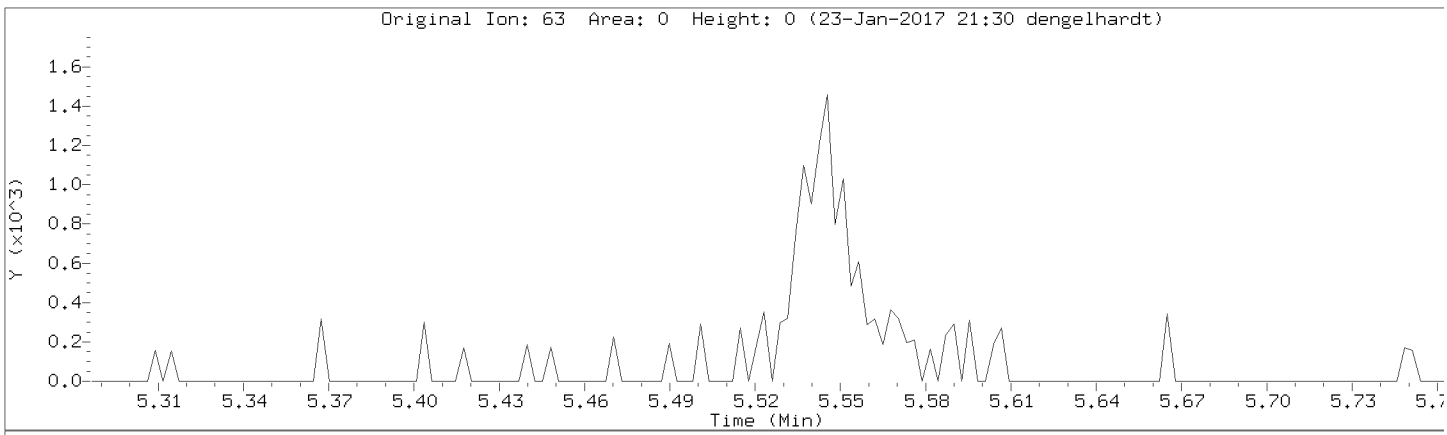
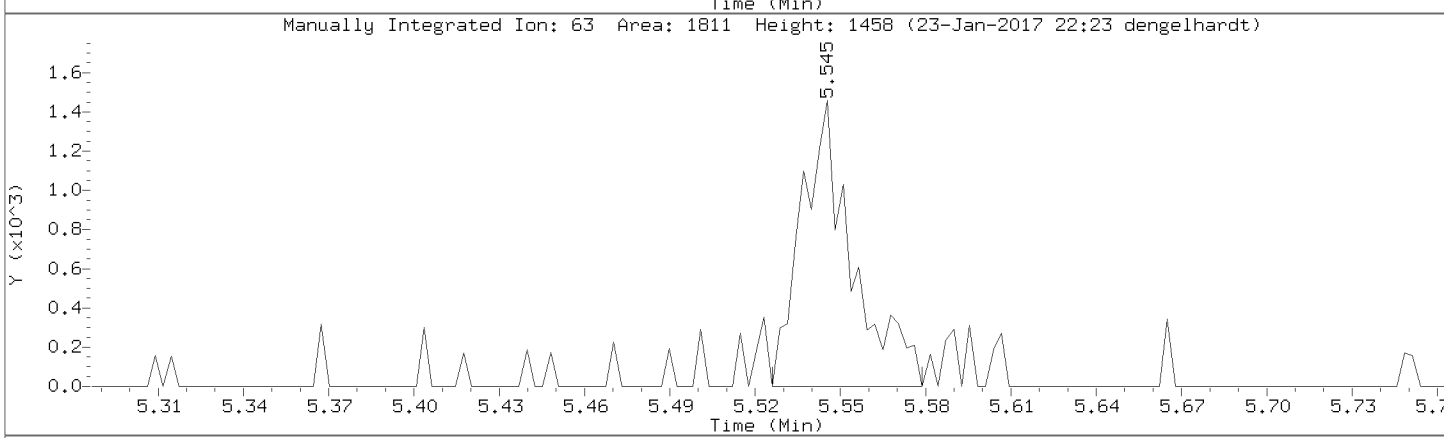
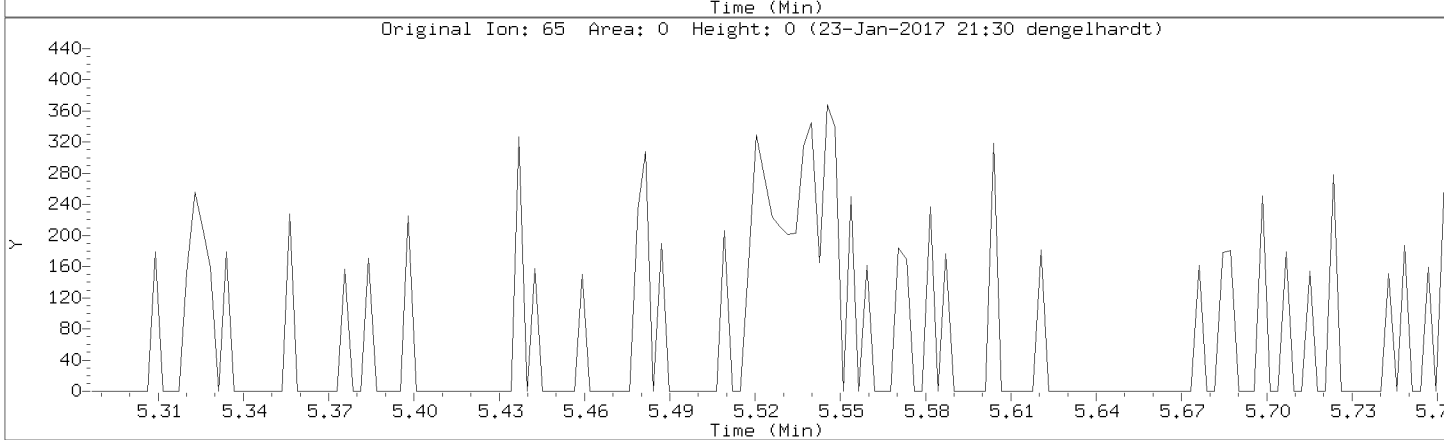
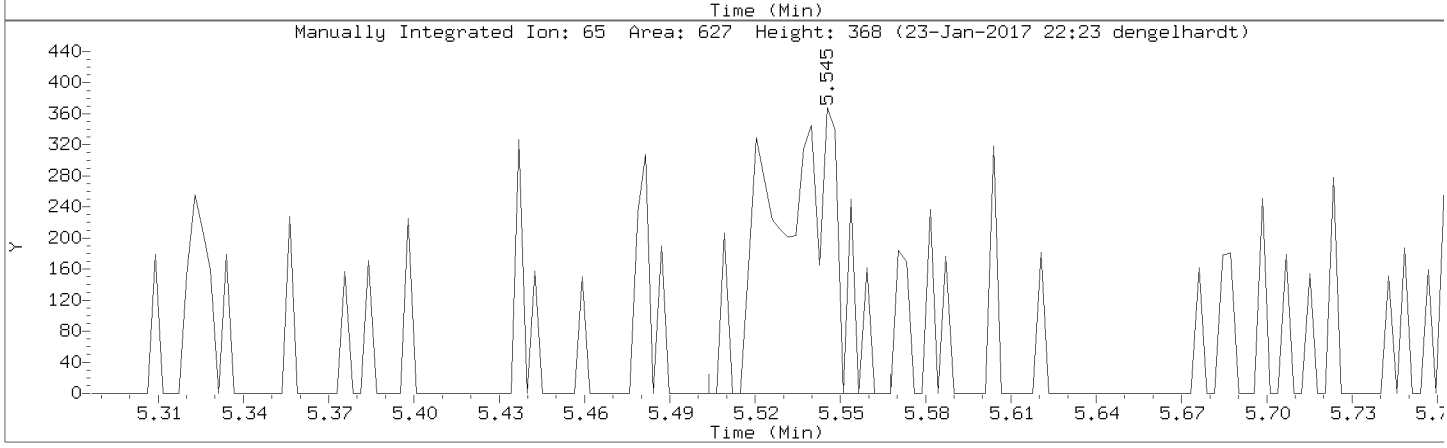
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8









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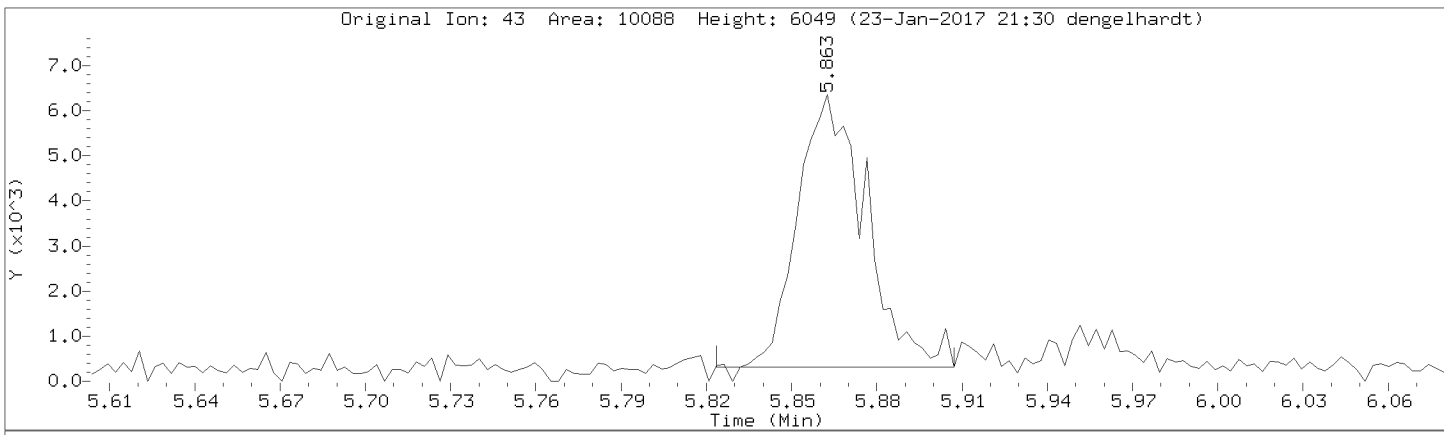
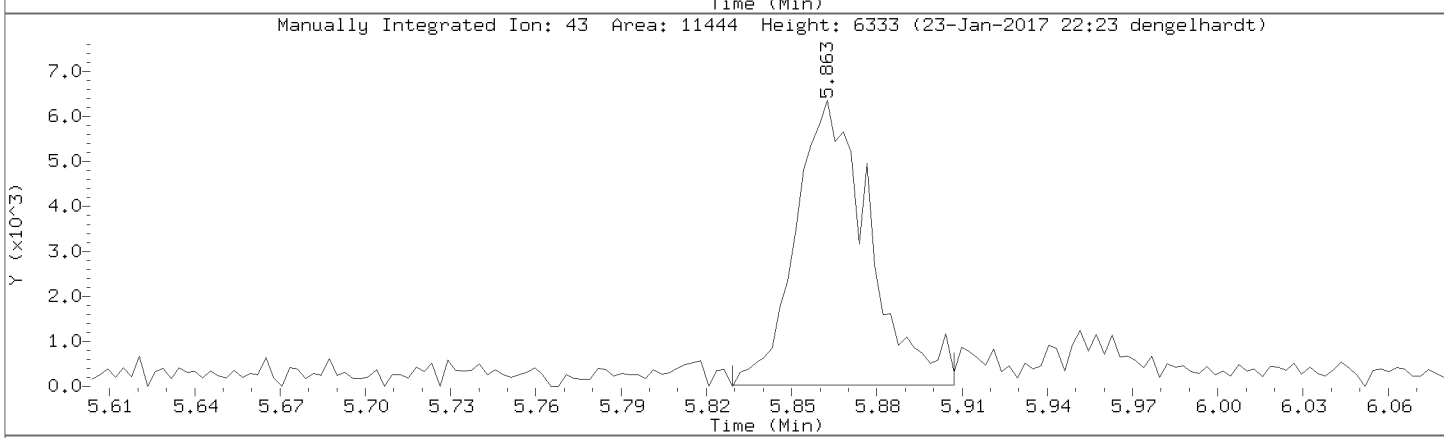
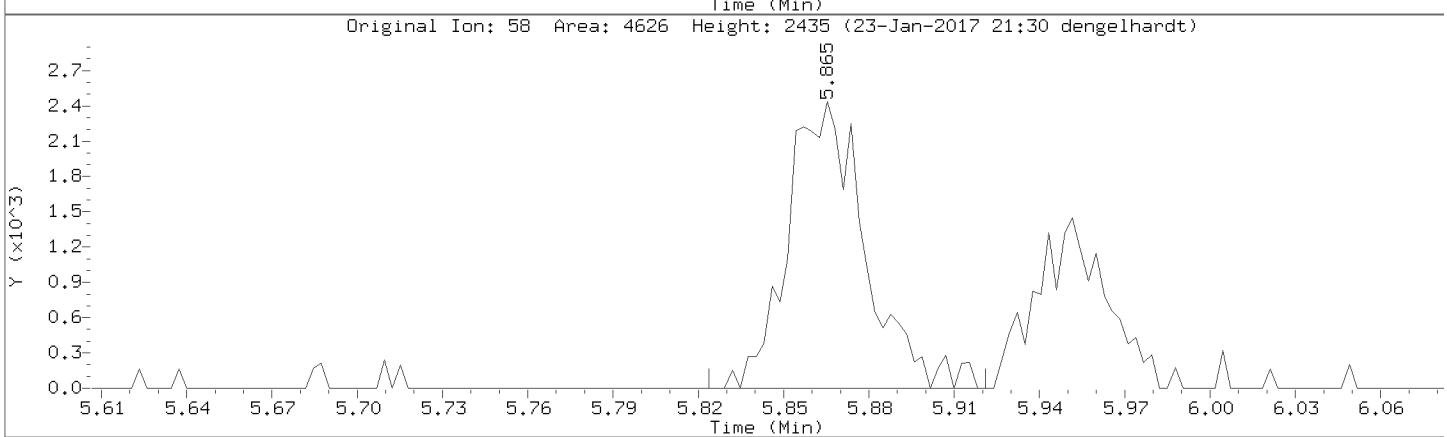
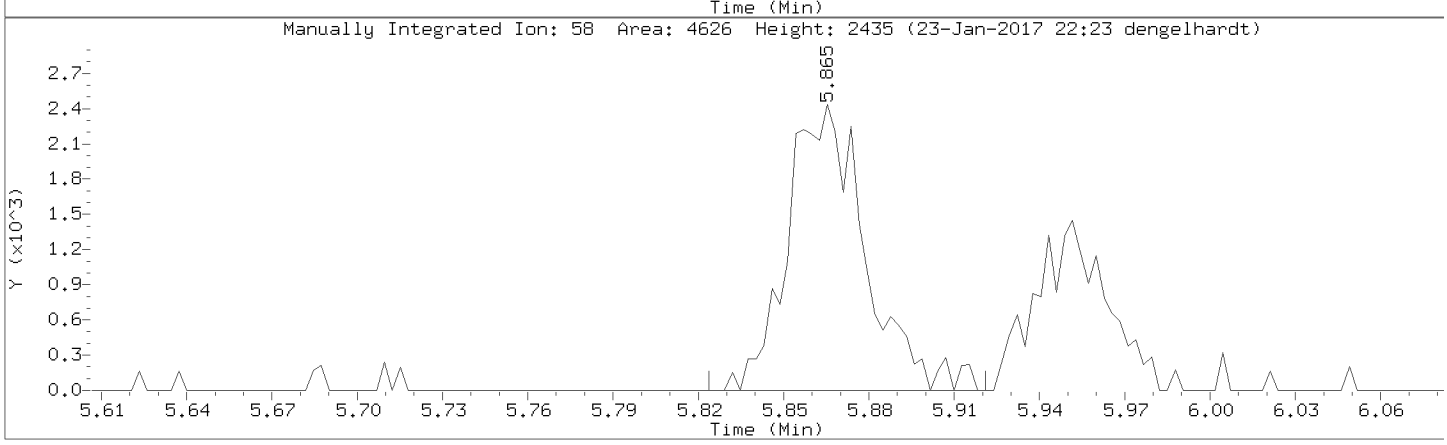
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 4-Methyl-2-Pentanone Review Code: LT
CAS Number: 108-10-1









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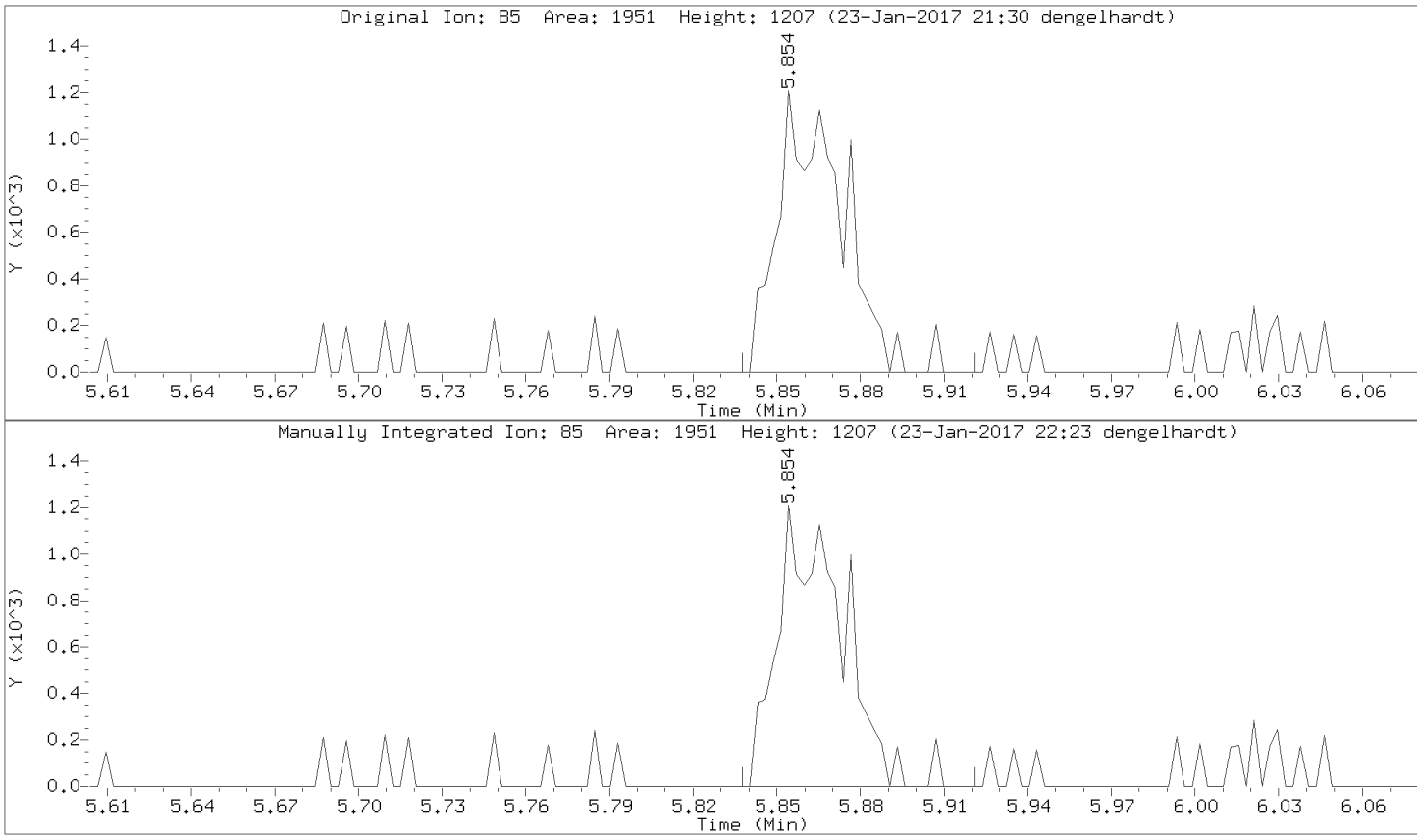
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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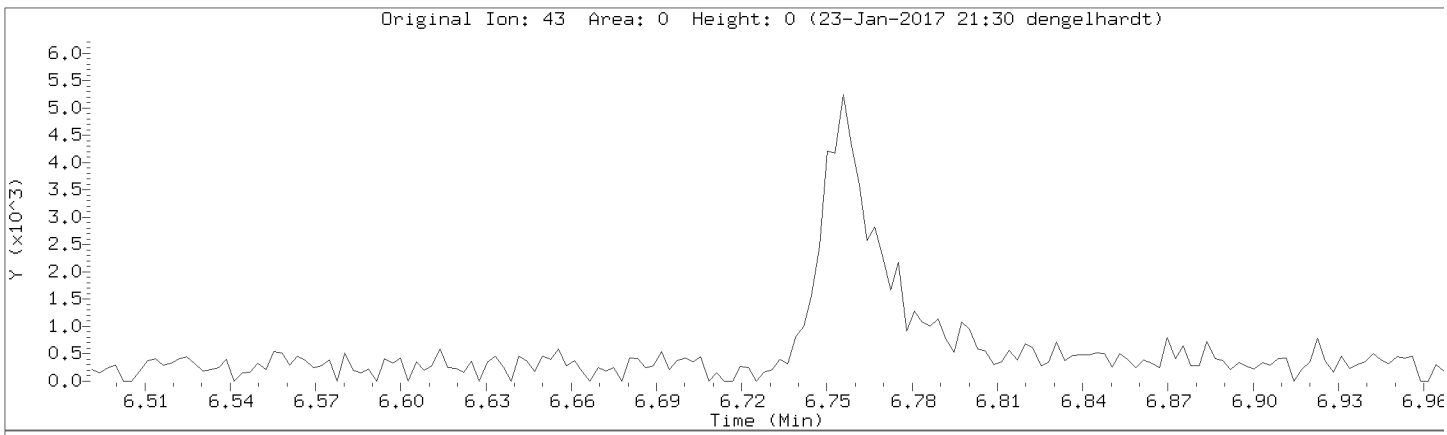
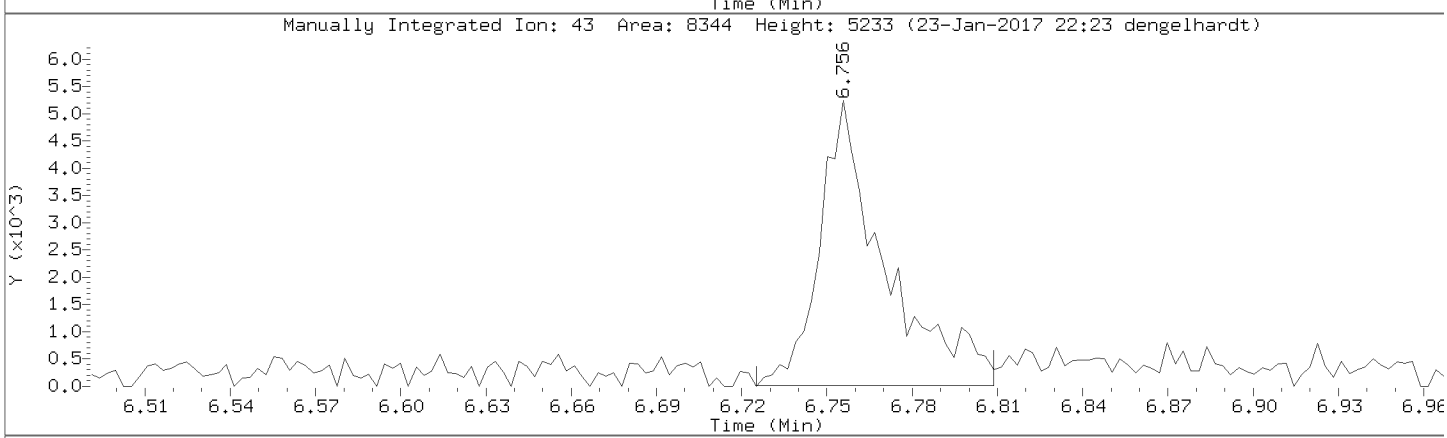
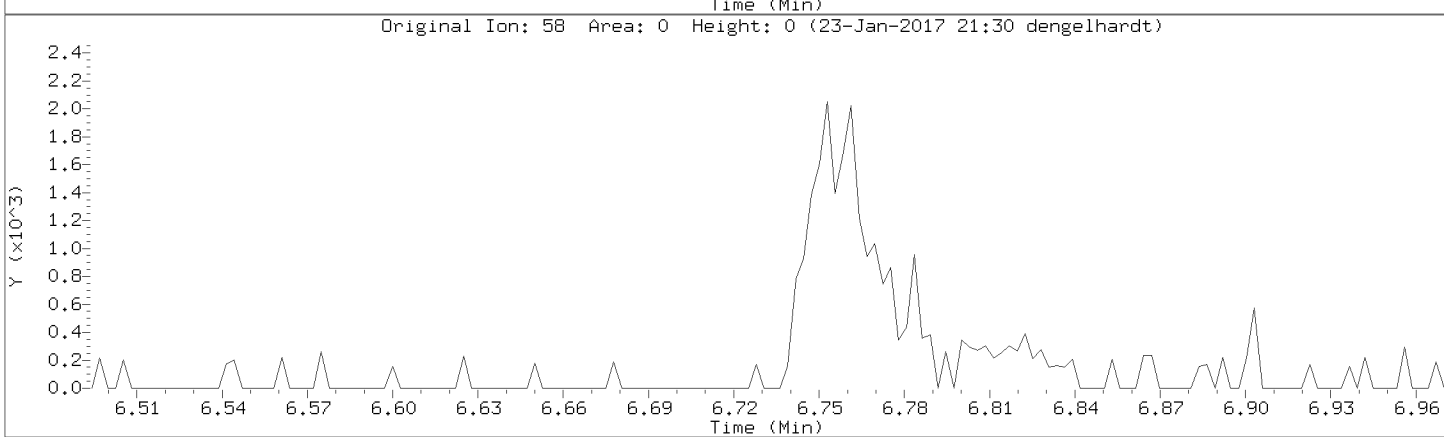
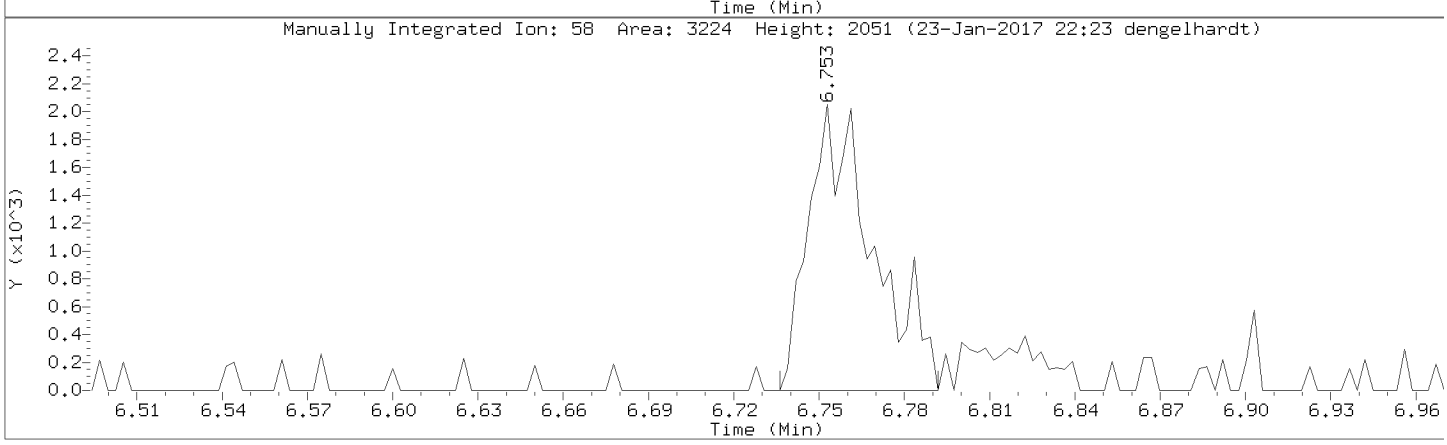
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6









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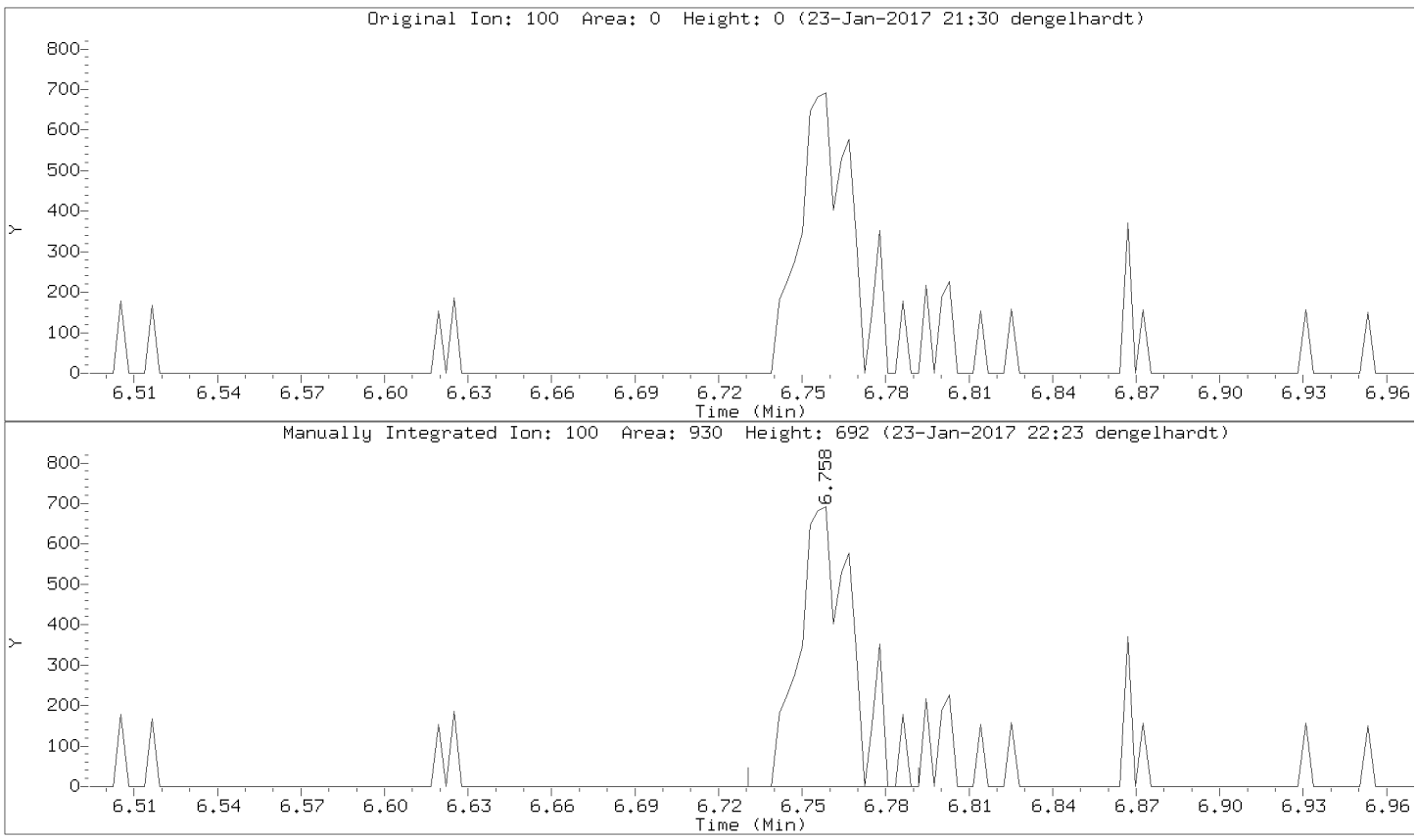
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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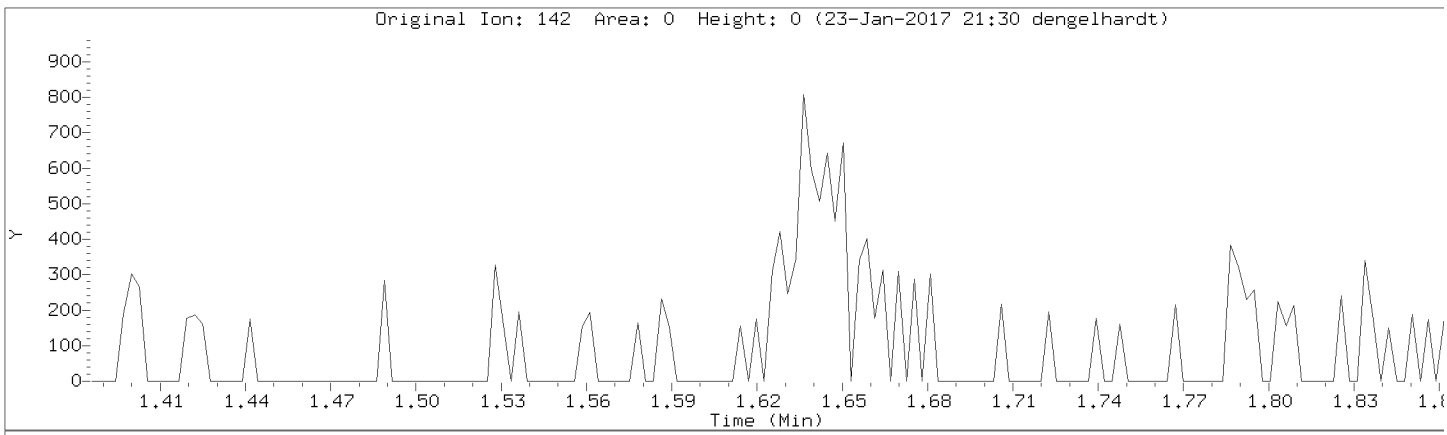
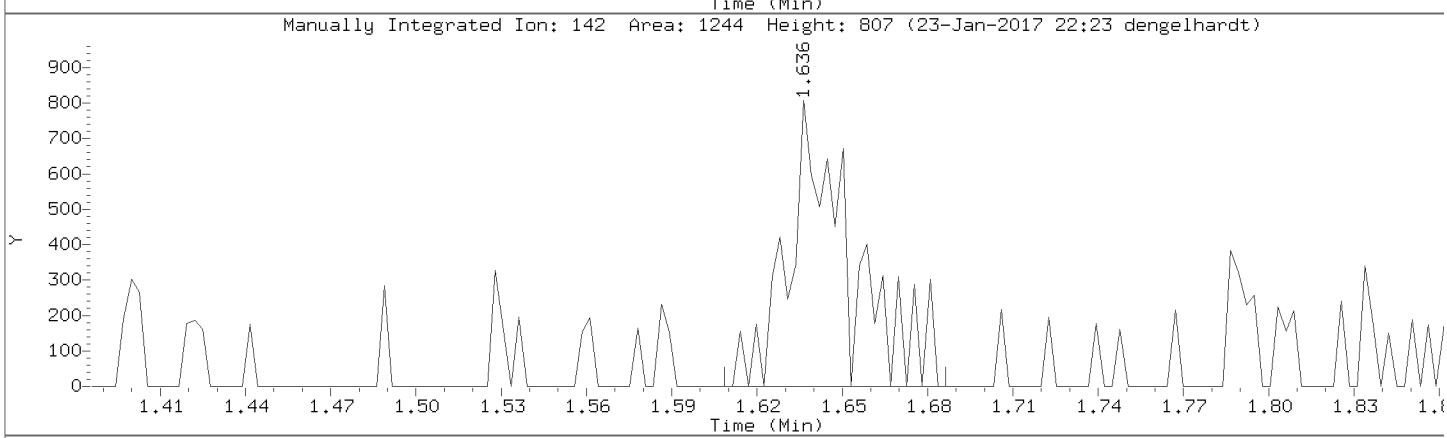
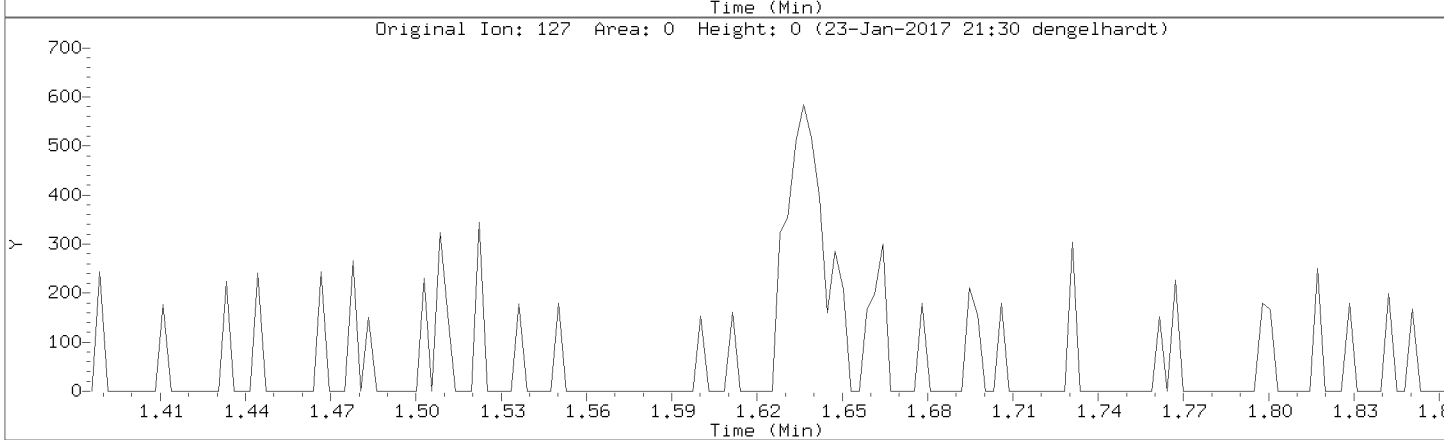
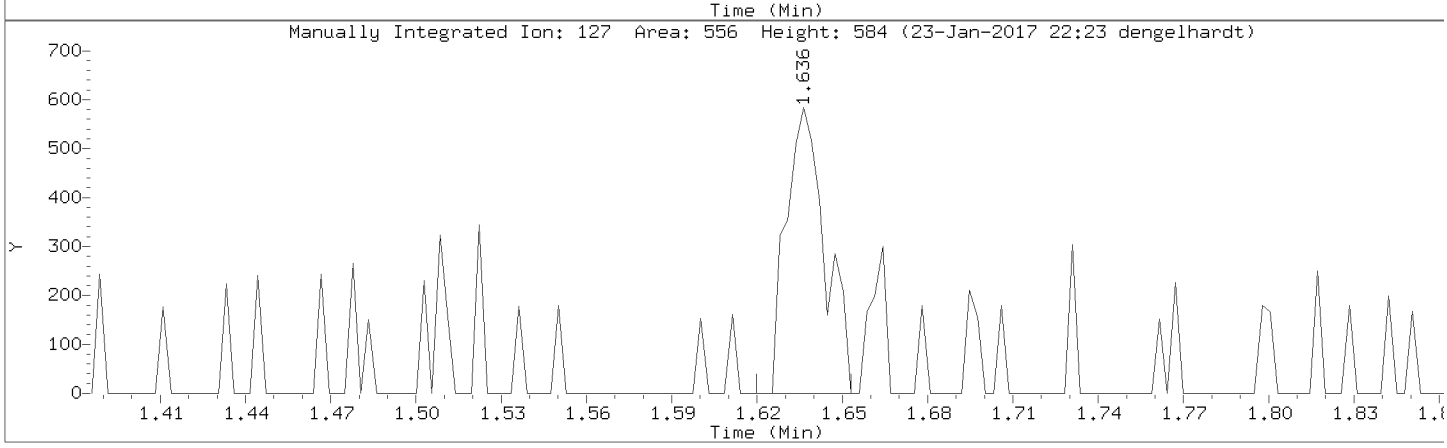
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Iodomethane Review Code: NI
CAS Number:



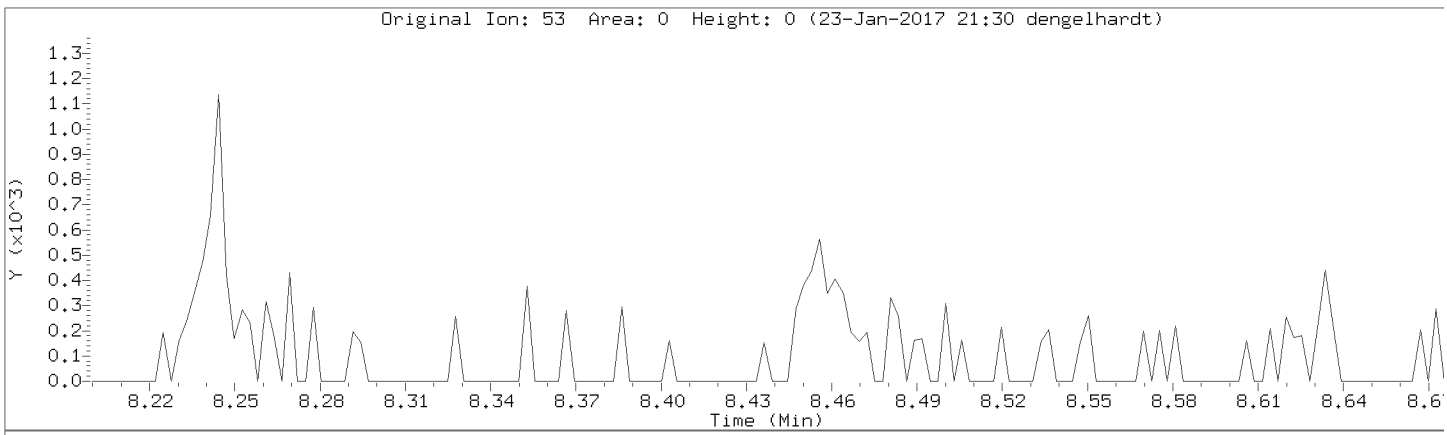


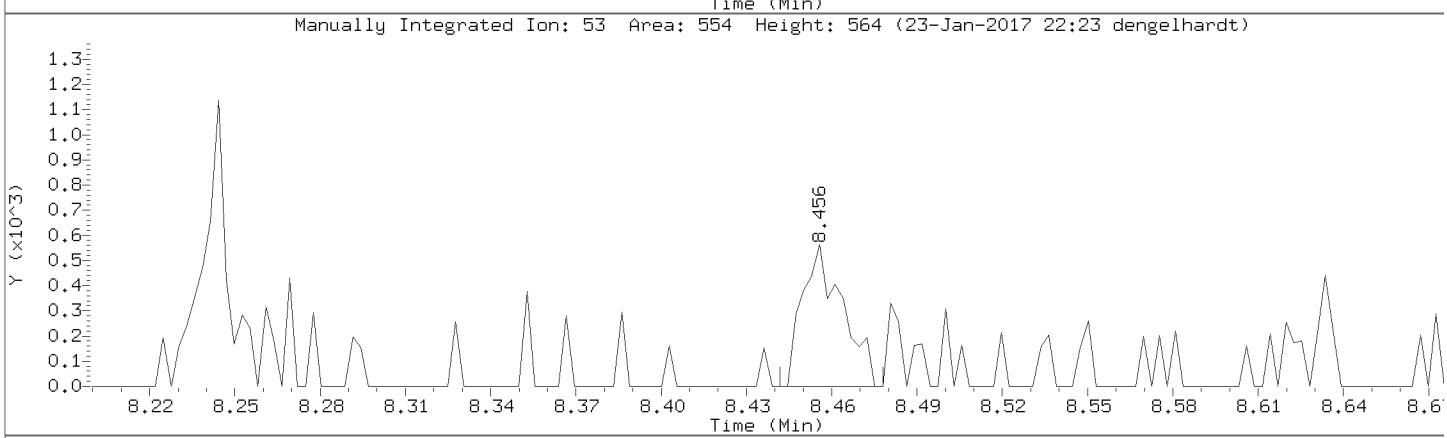


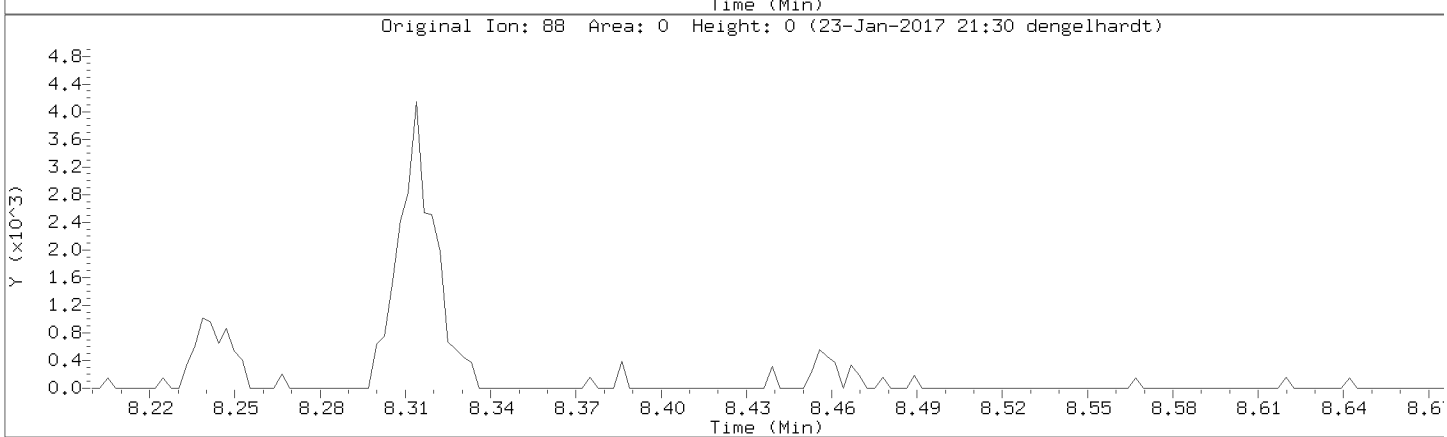


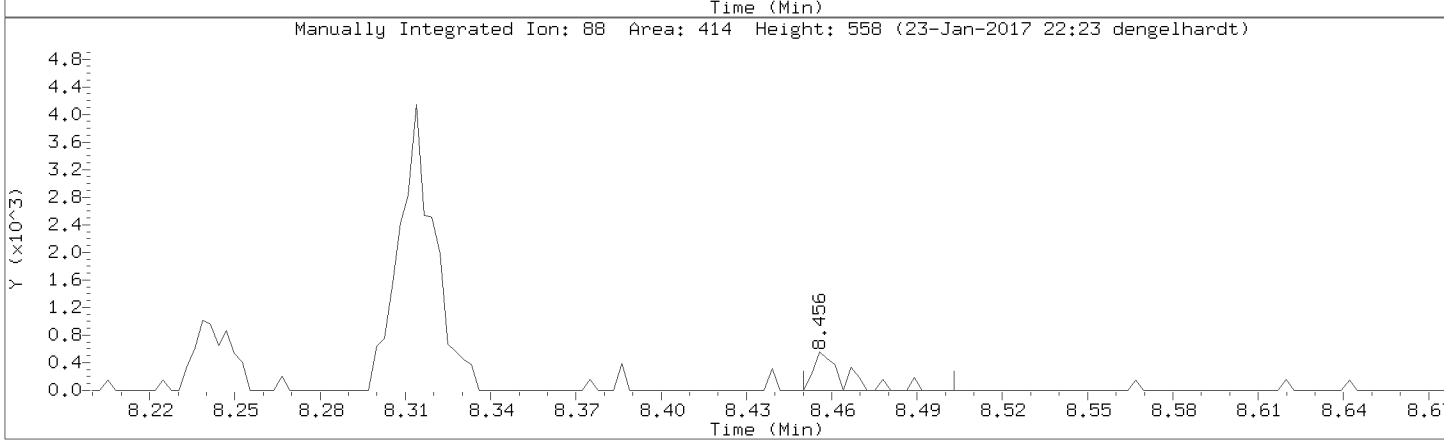
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,4-Dichloro-2-butene Review Code: NI
CAS Number:









Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
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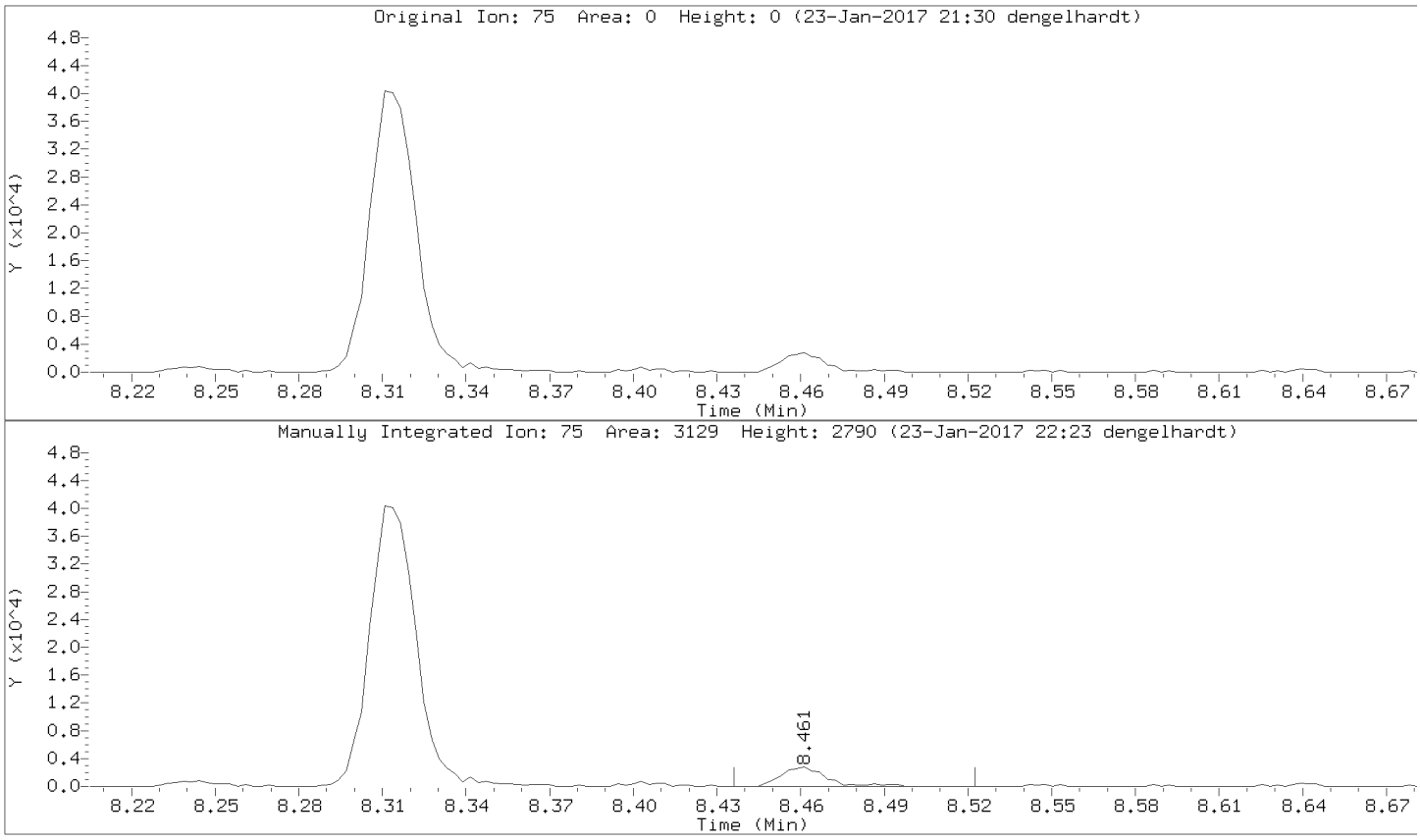
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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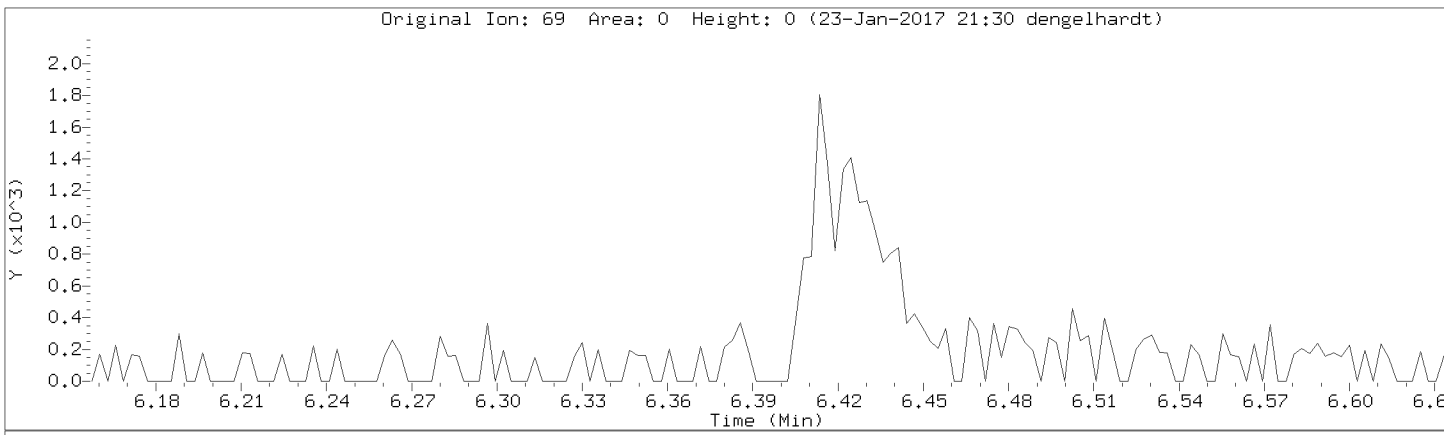
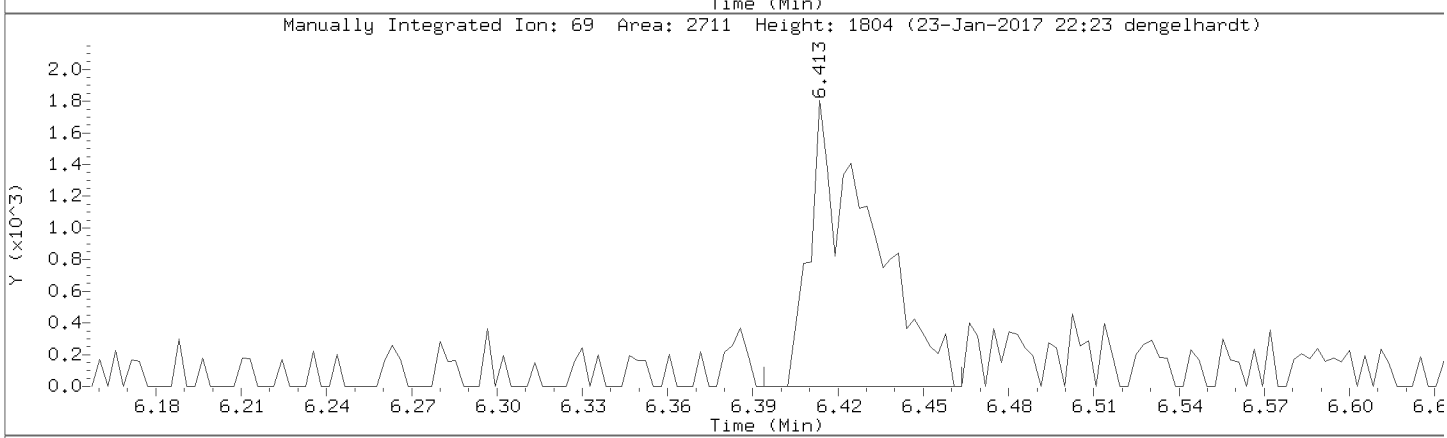
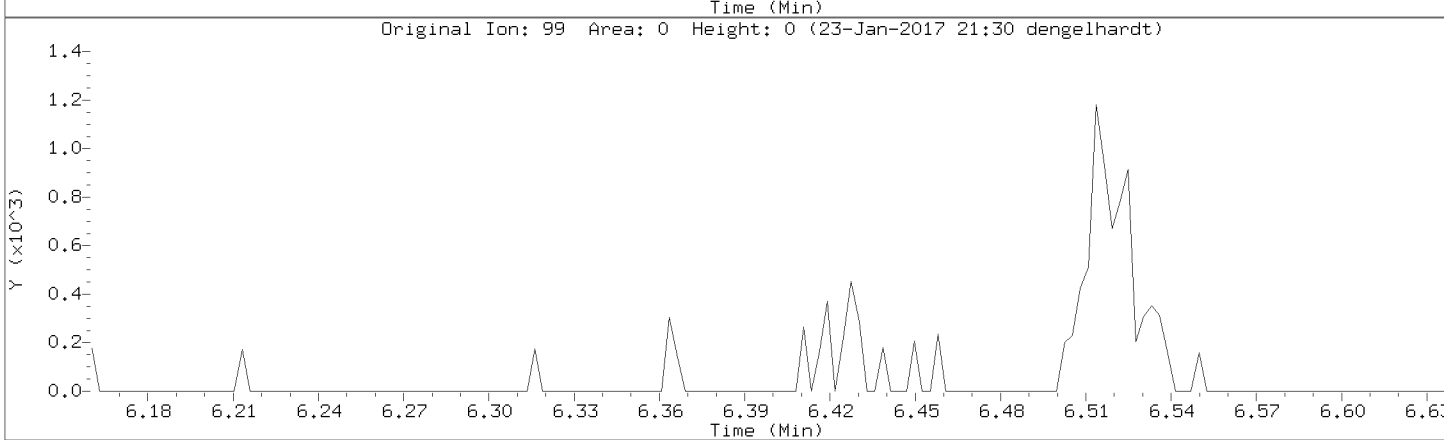
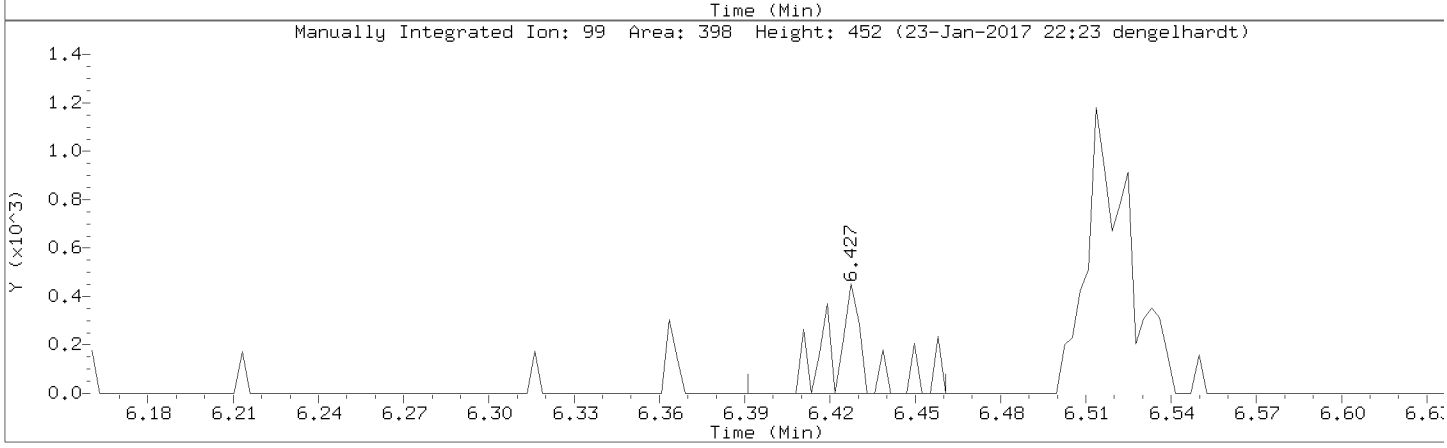
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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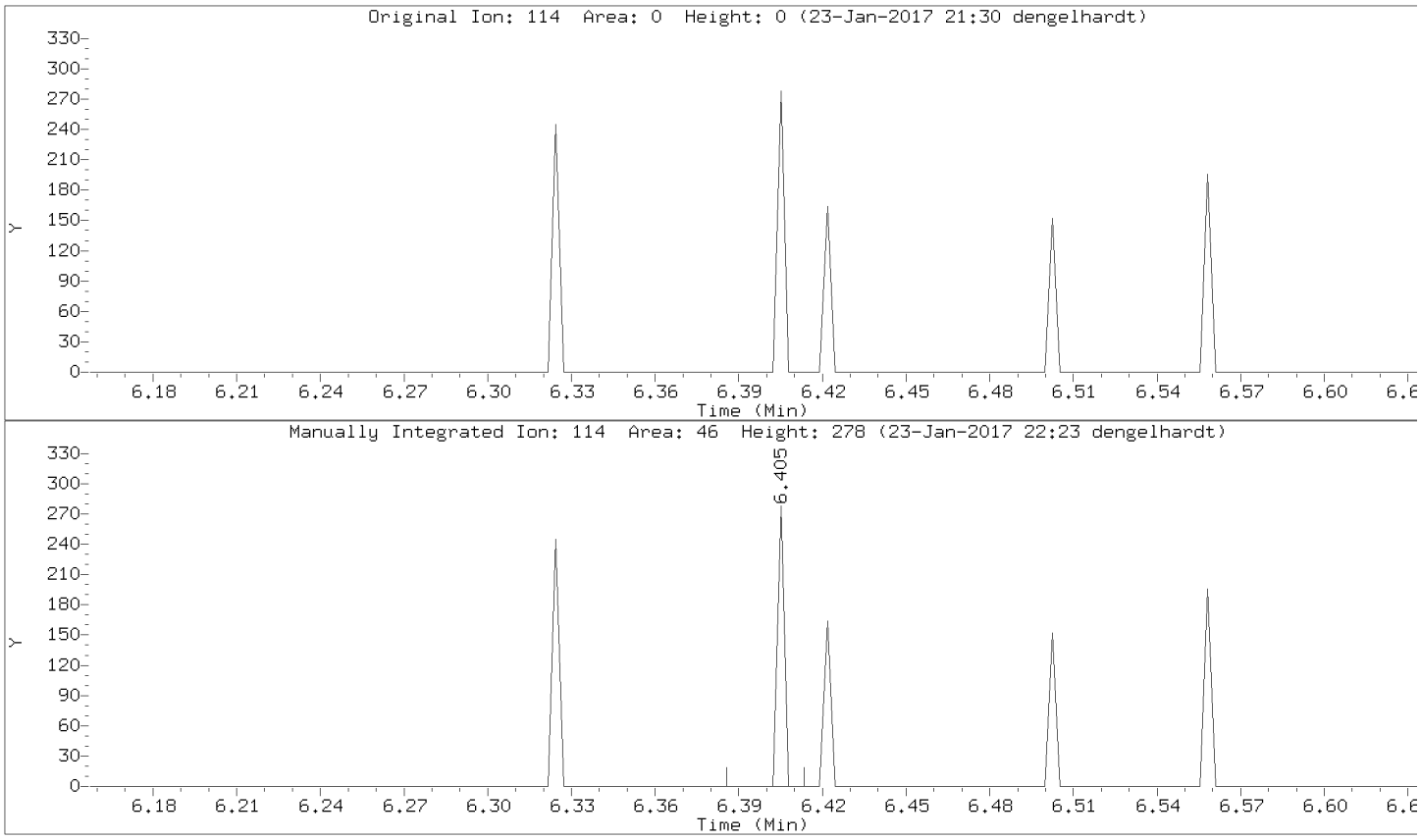
Lab Sample ID: 8260-CAL2



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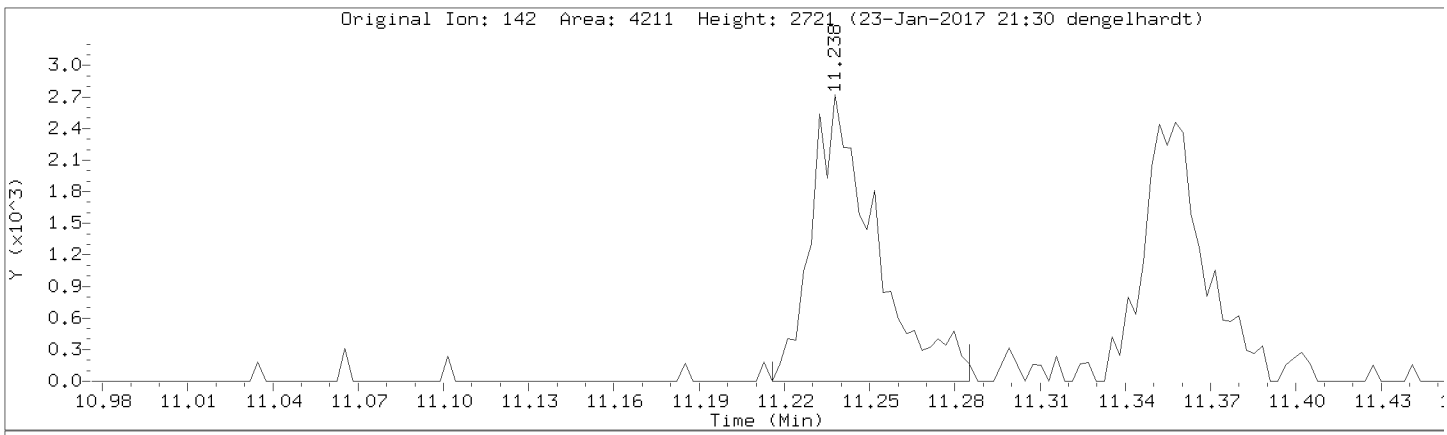
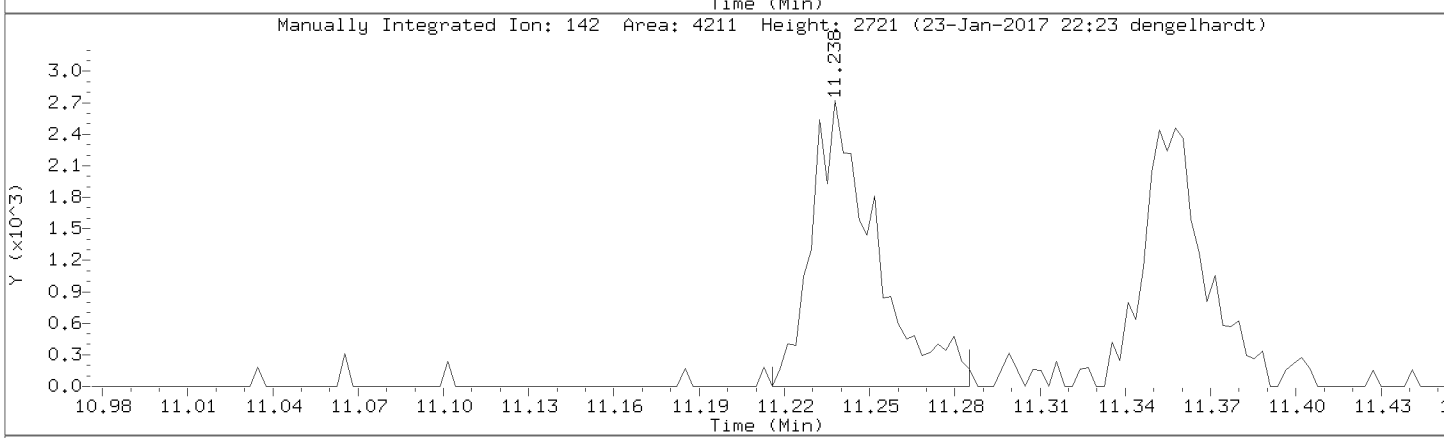
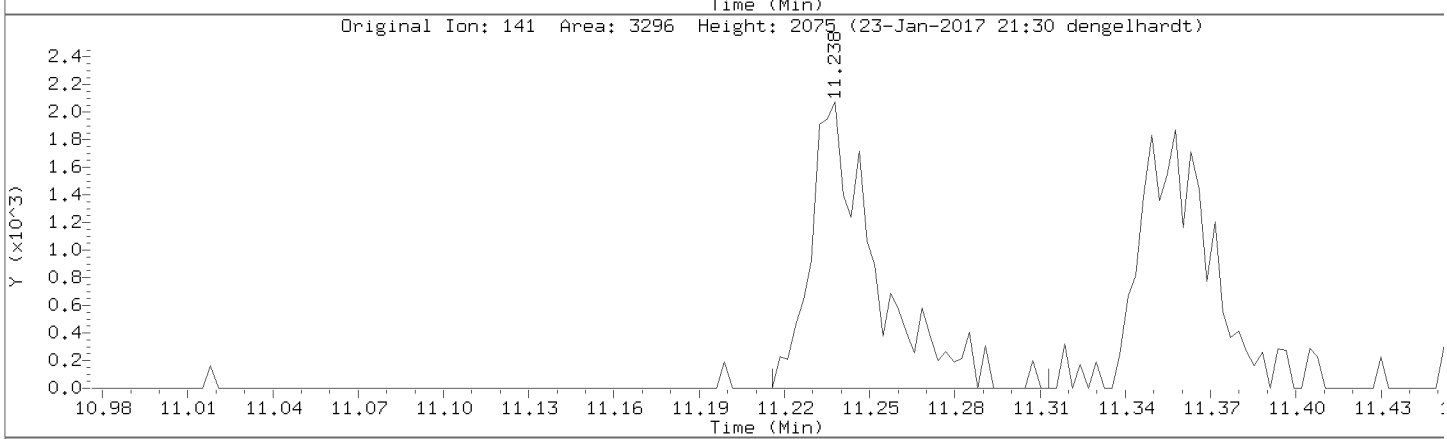
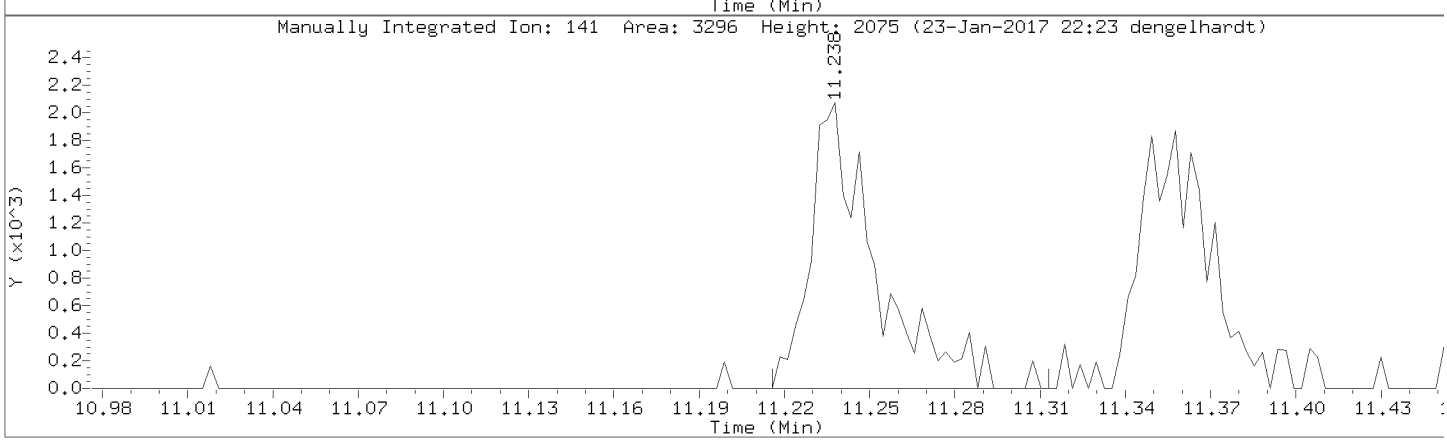
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2,methyl-naphthalene Review Code: WP
CAS Number:









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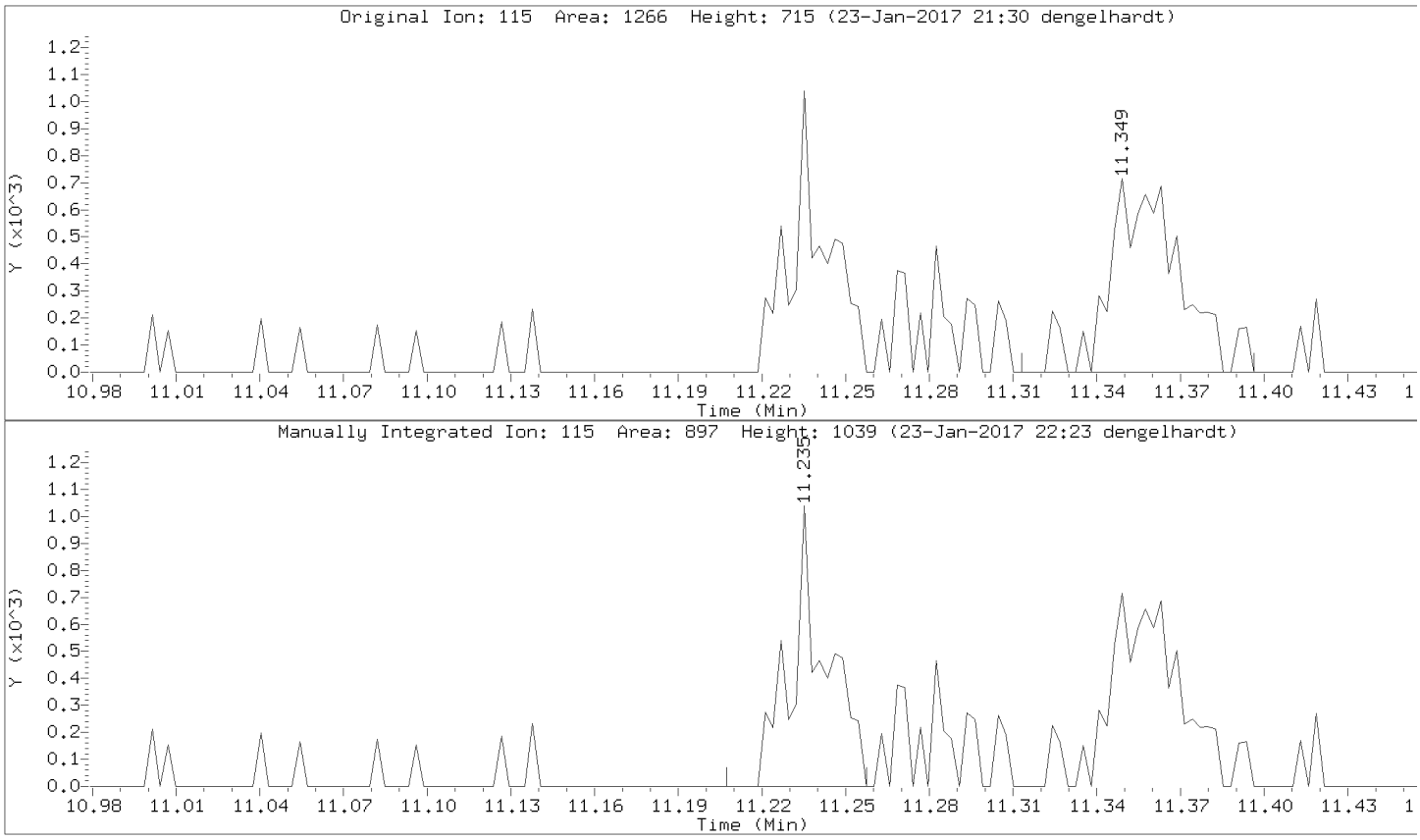
Lab Sample ID: 8260-CAL2



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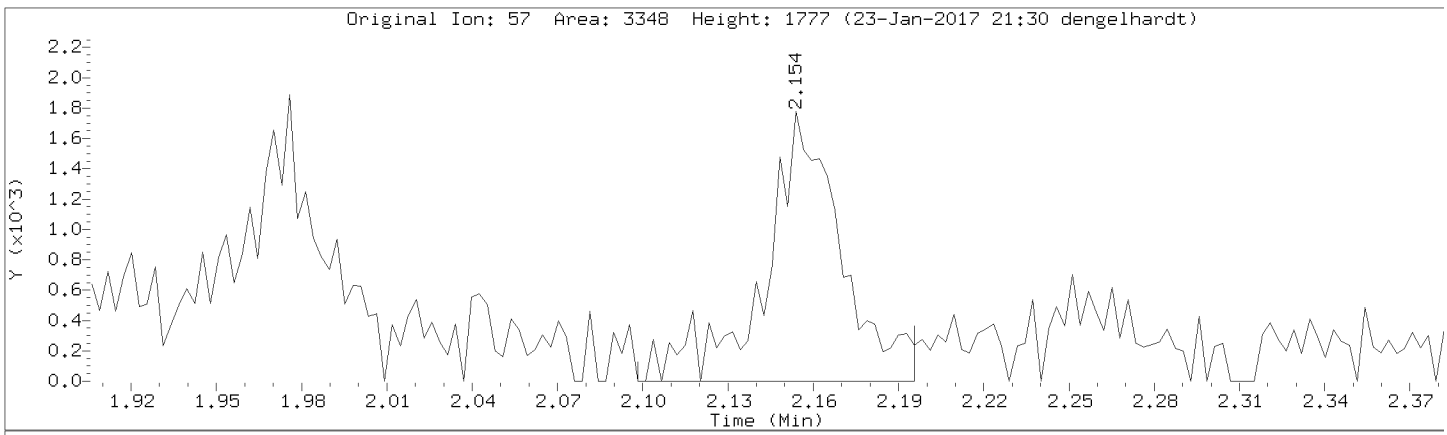
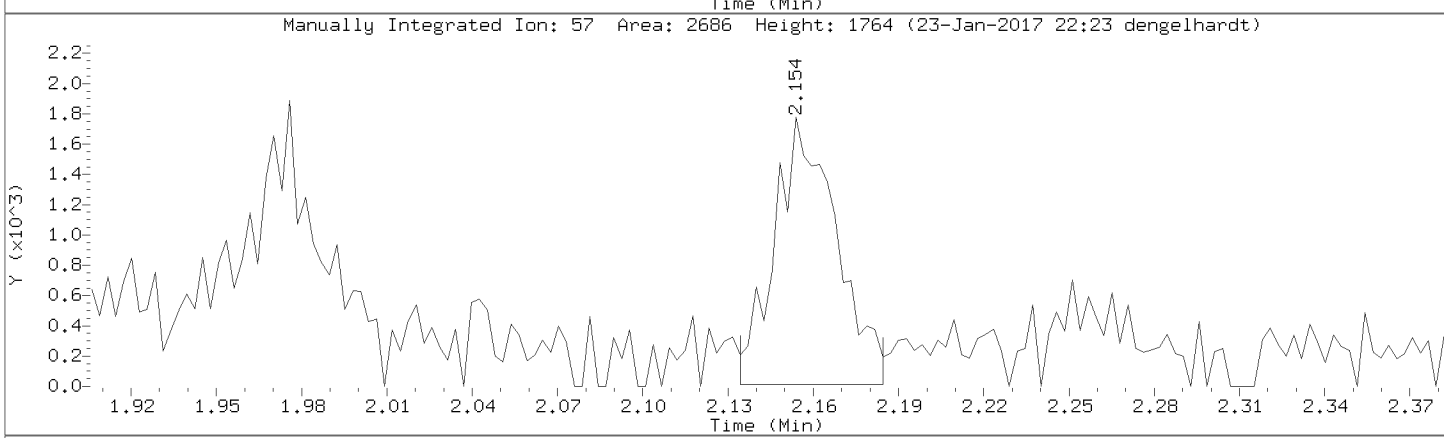
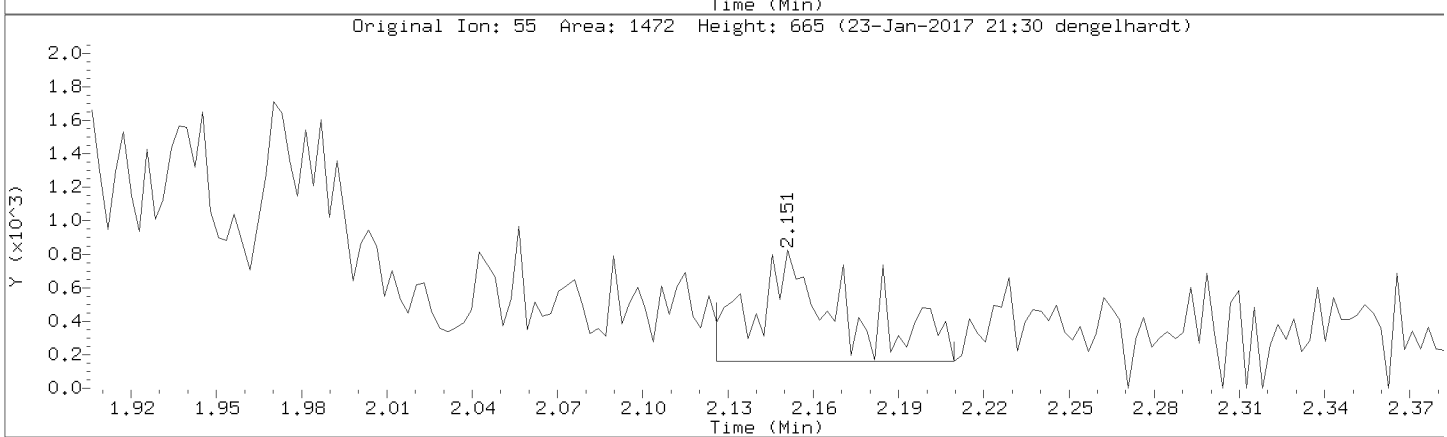
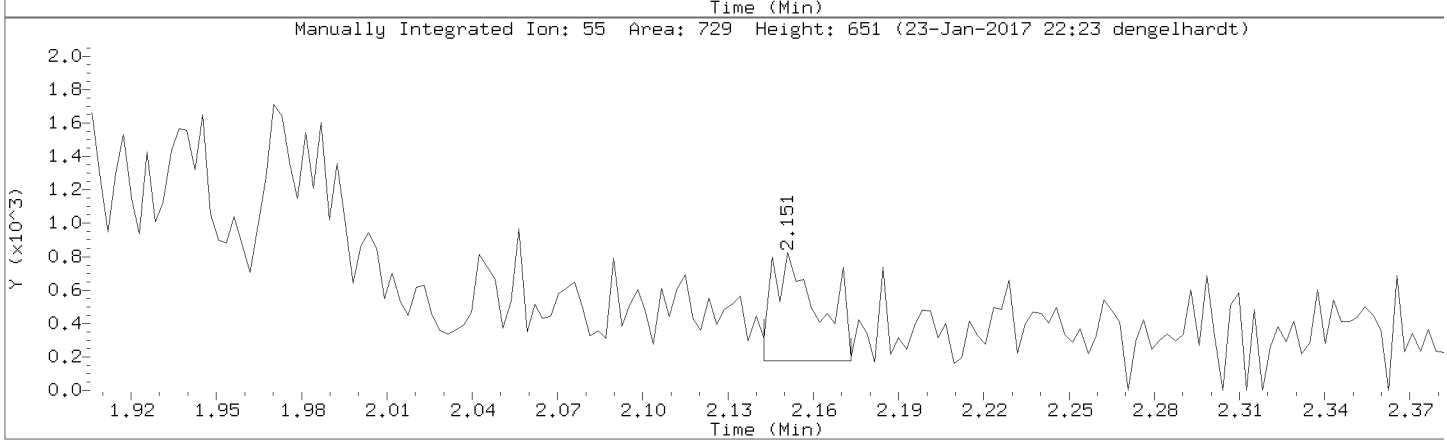
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: n-Hexane Review Code: LT
CAS Number:









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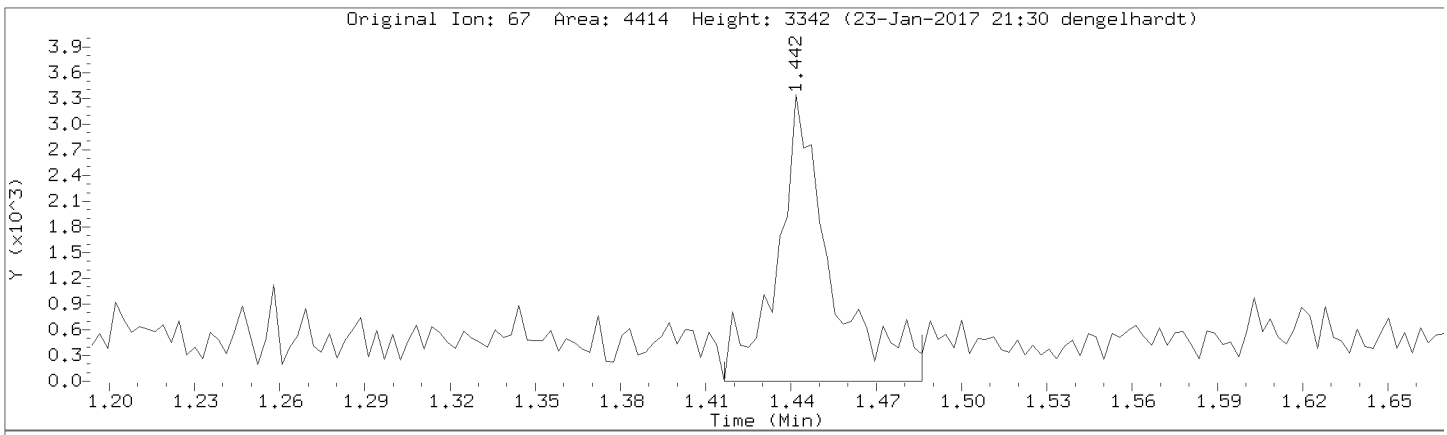
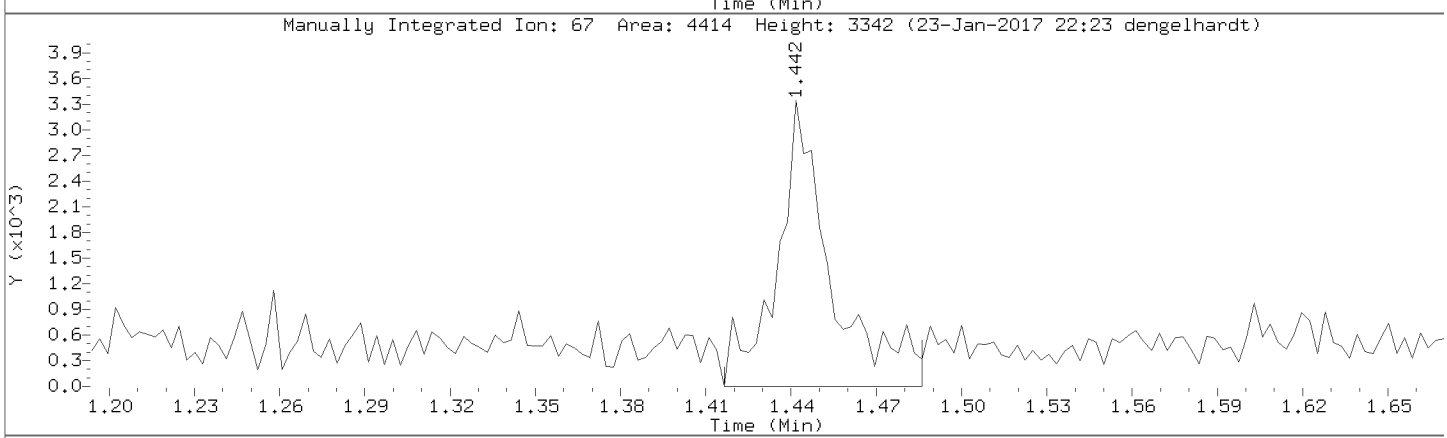
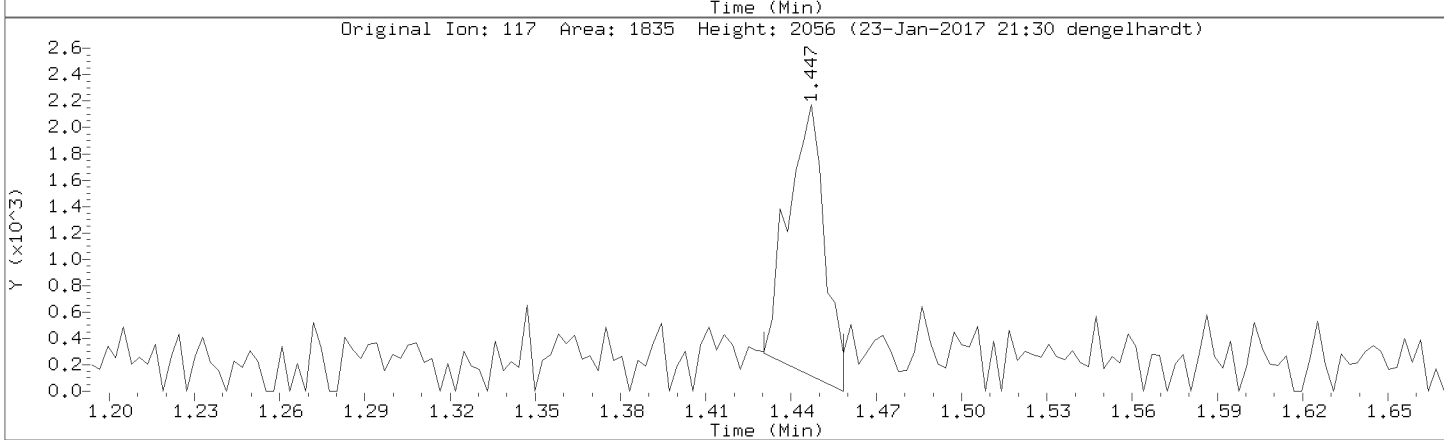
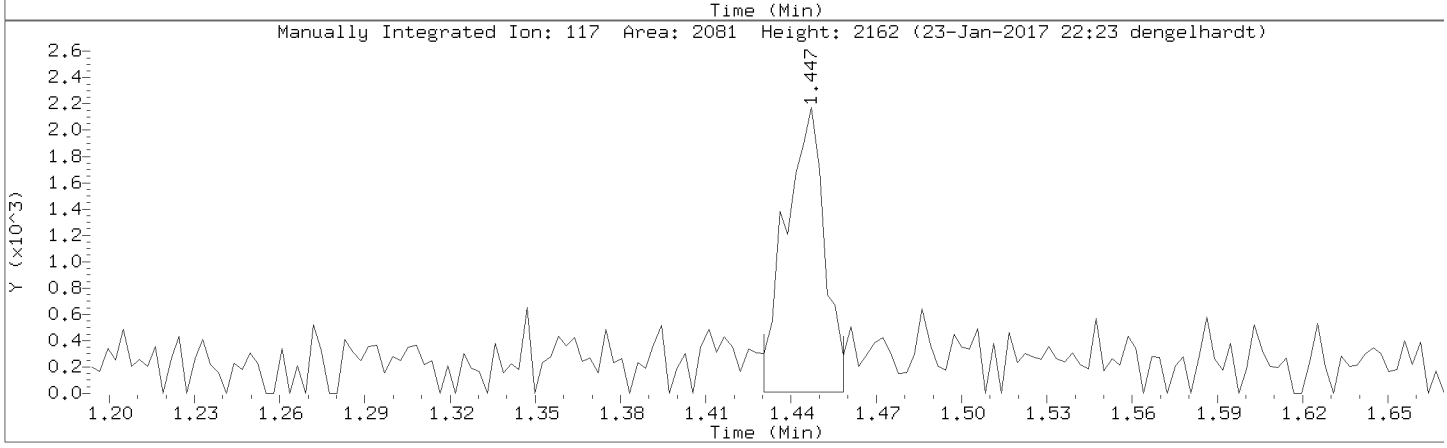
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-dichlorotrifluoroethane Review Code: LT
CAS Number: 354-23-4









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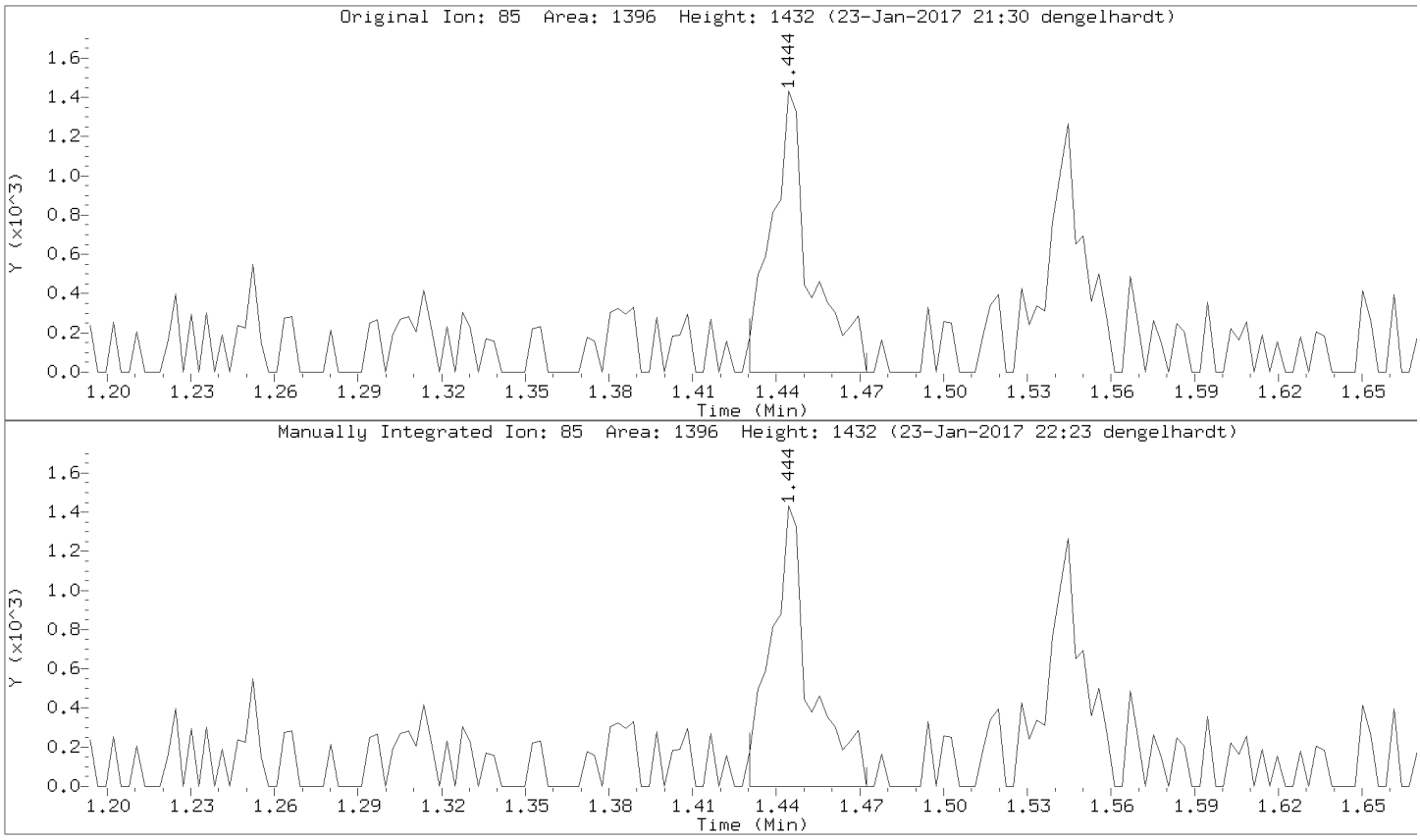
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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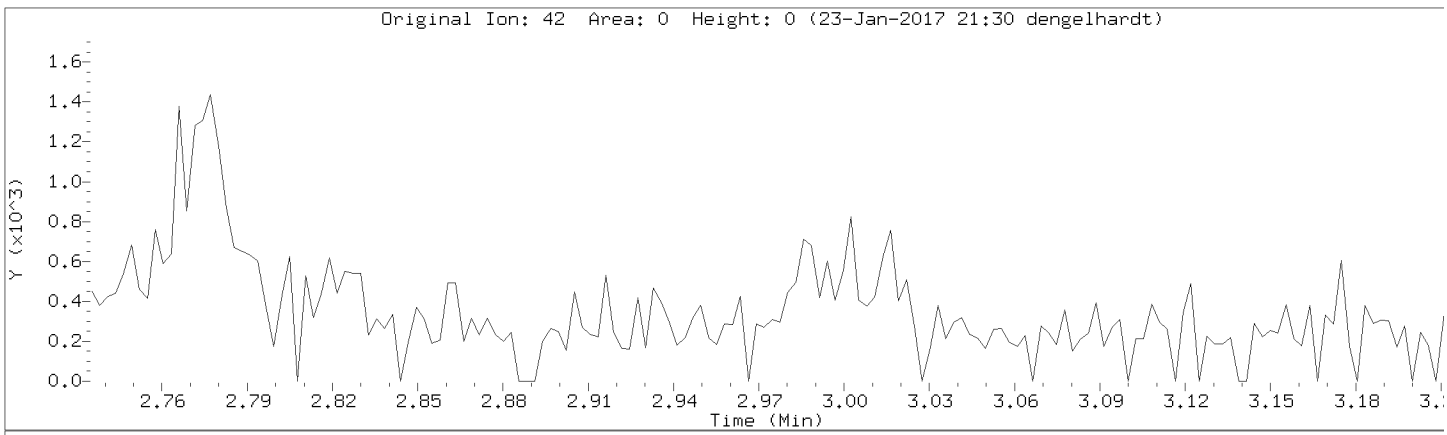
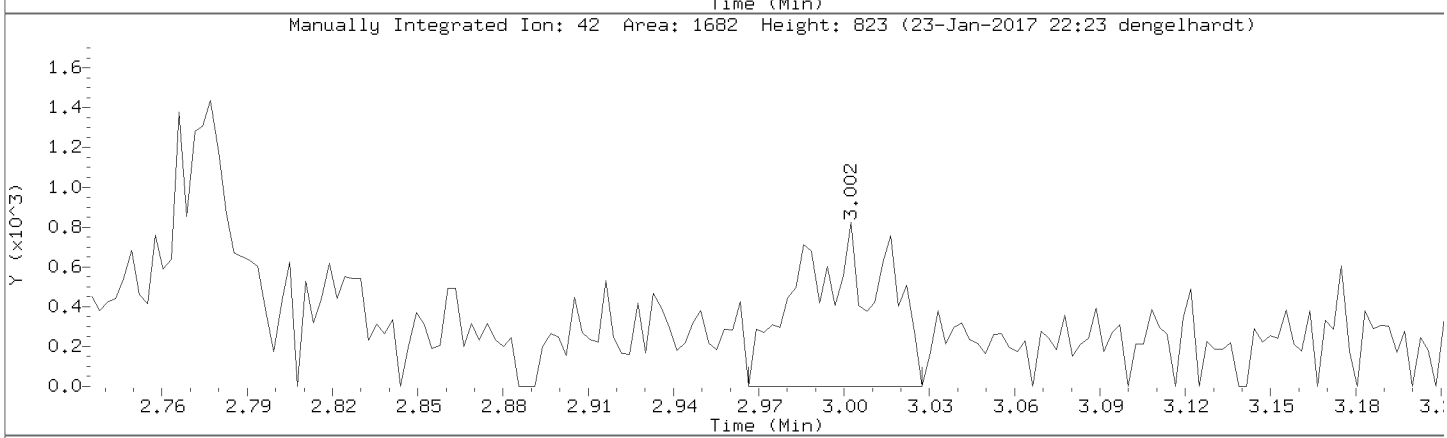
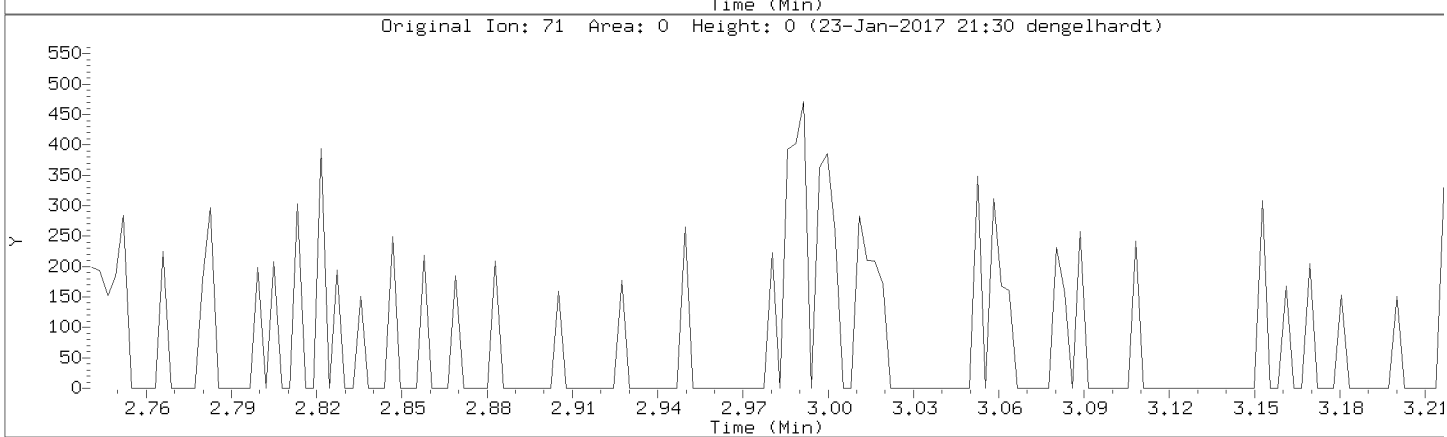
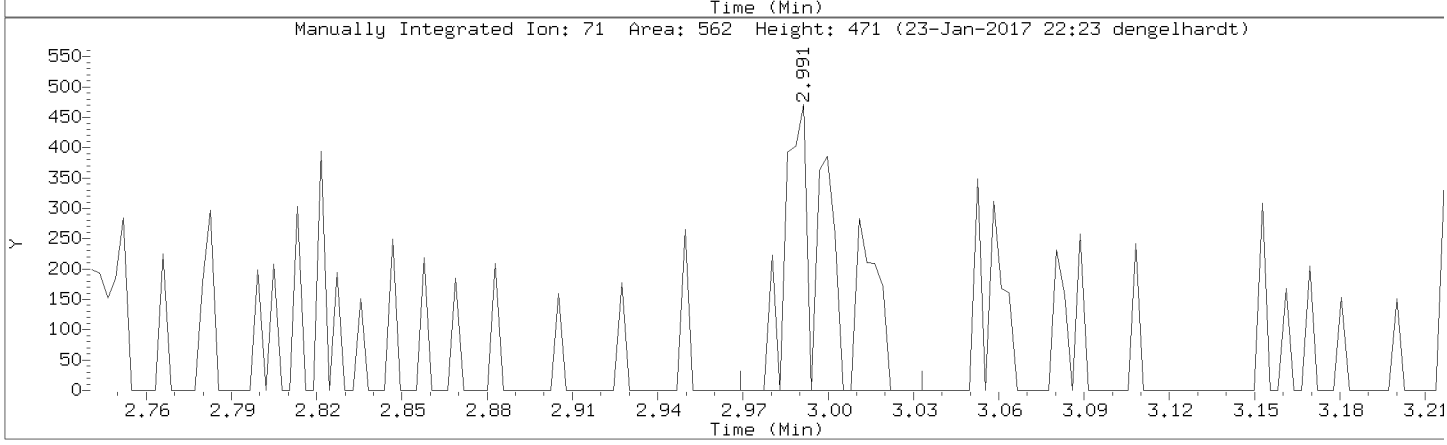
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Tetrahydrofuran Review Code: NI
CAS Number:









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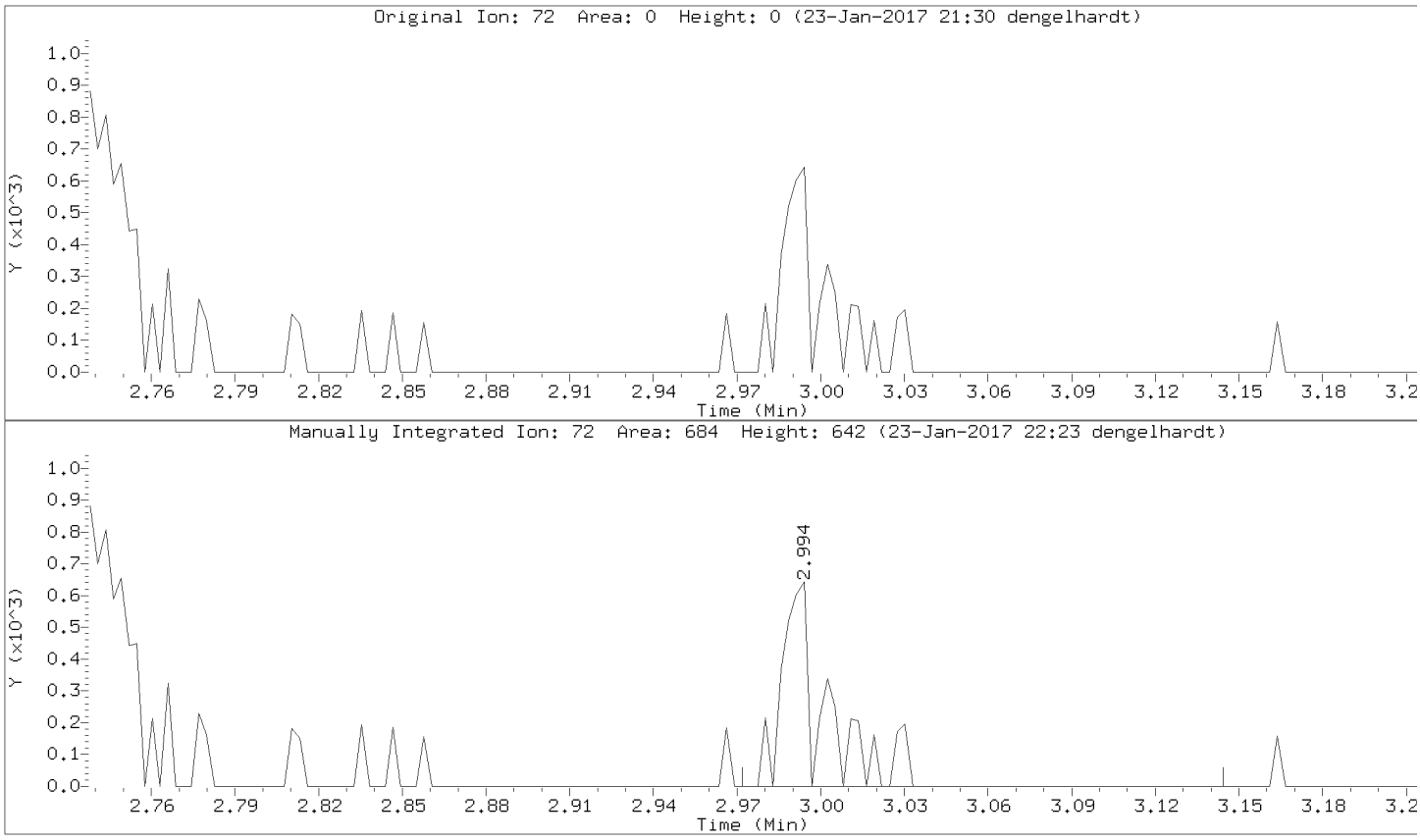
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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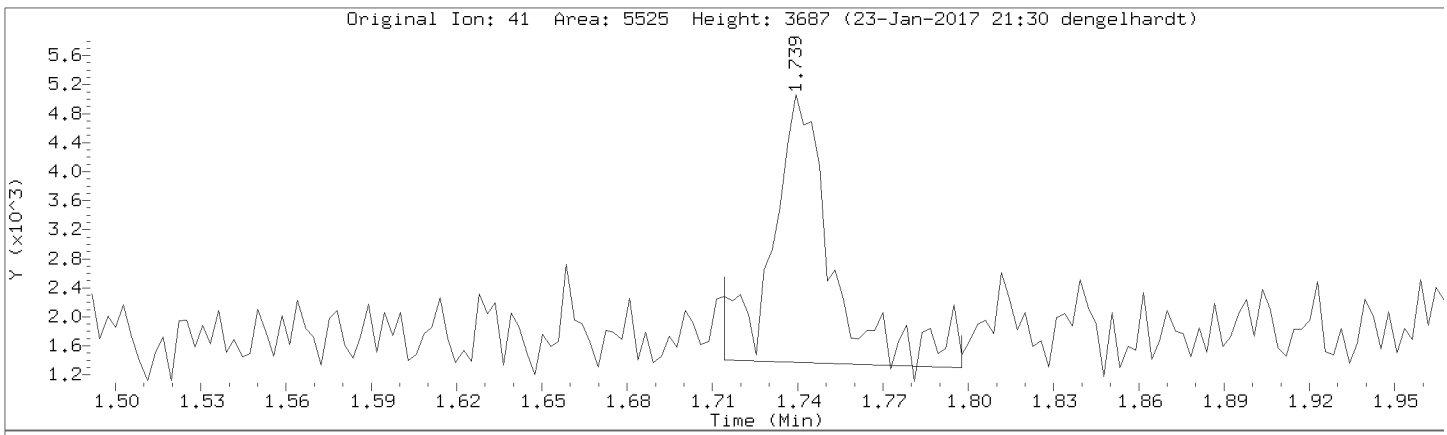
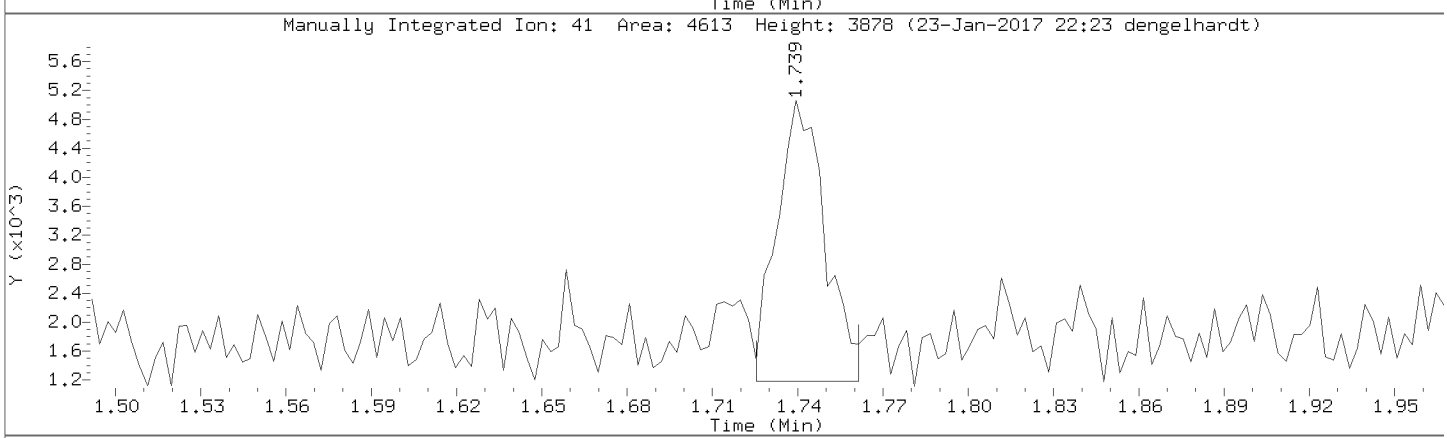
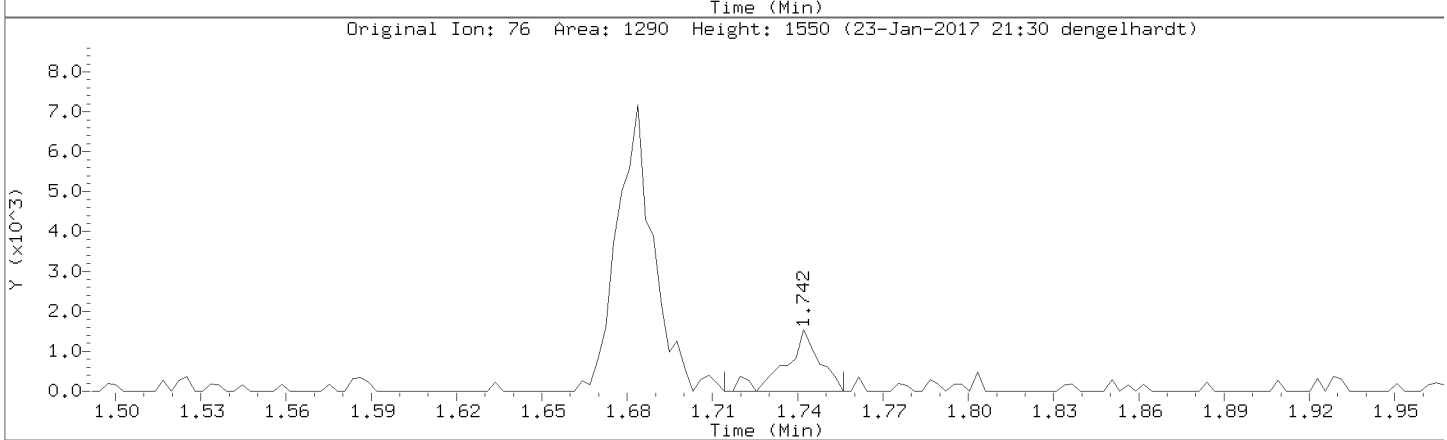
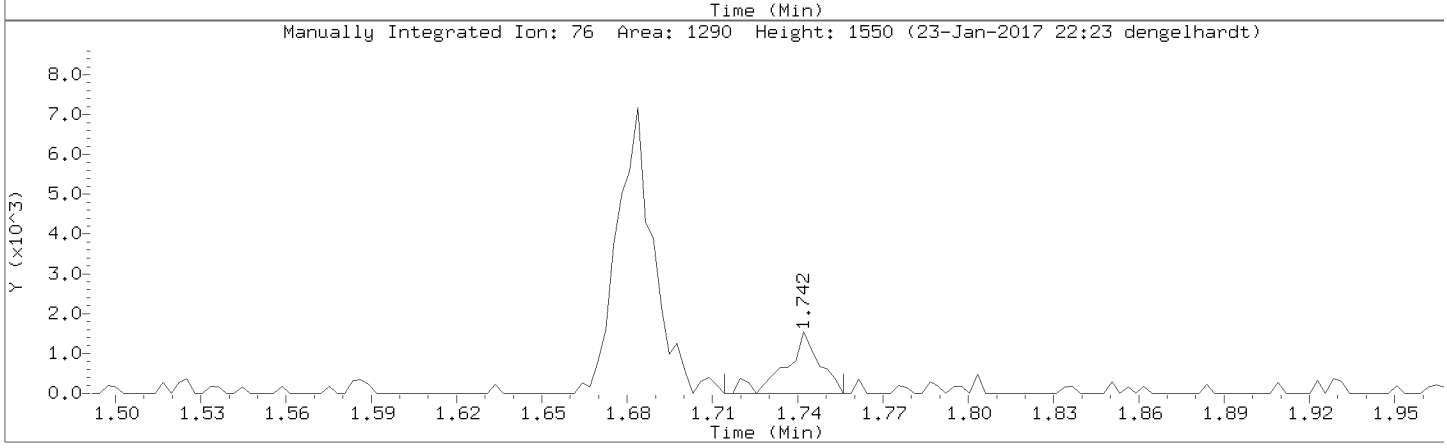
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: allyl chloride Review Code: LT
CAS Number: 107-05-1









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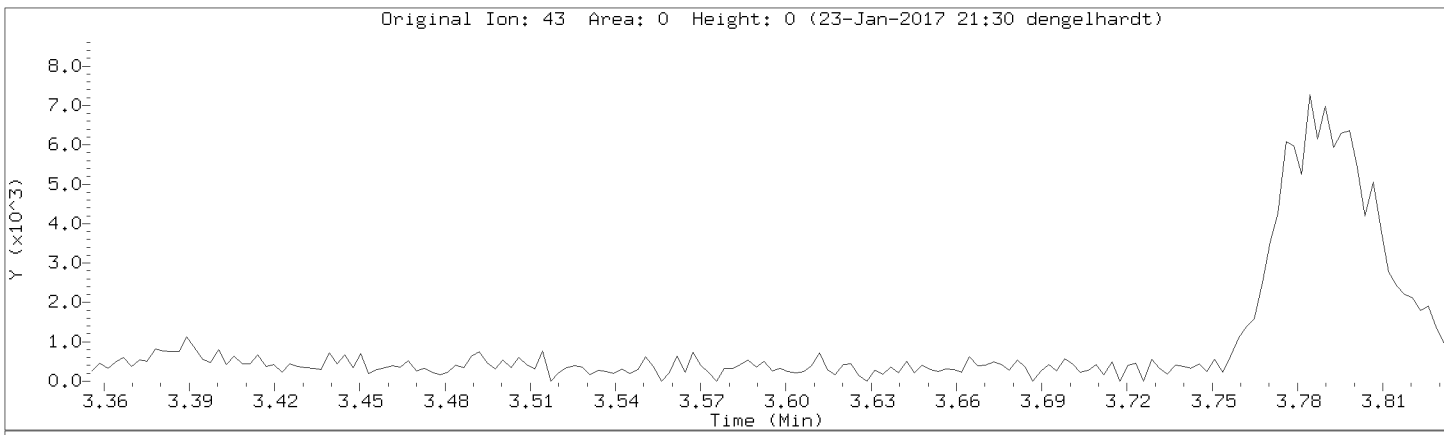
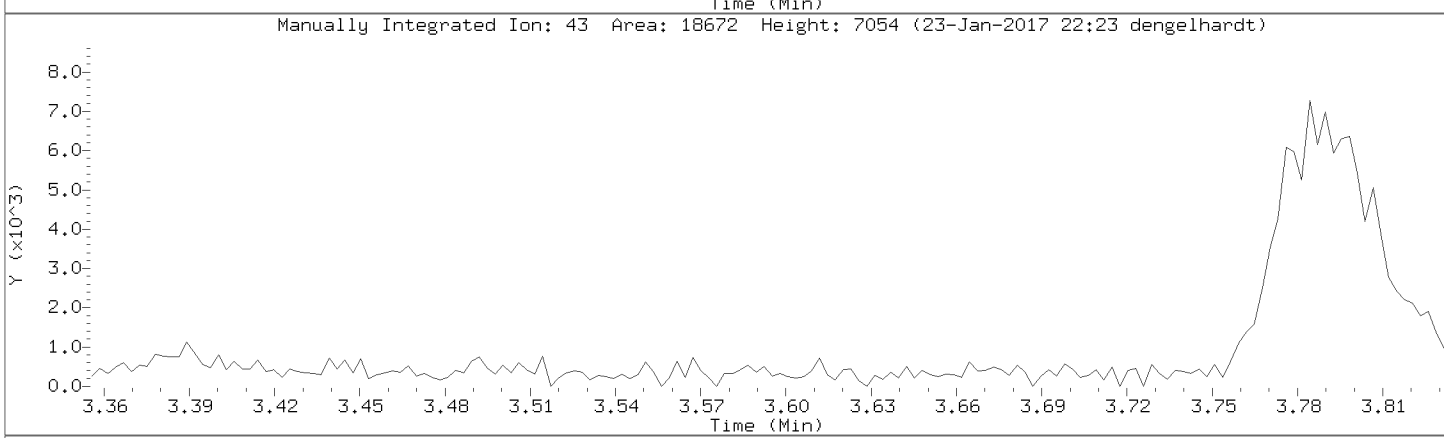
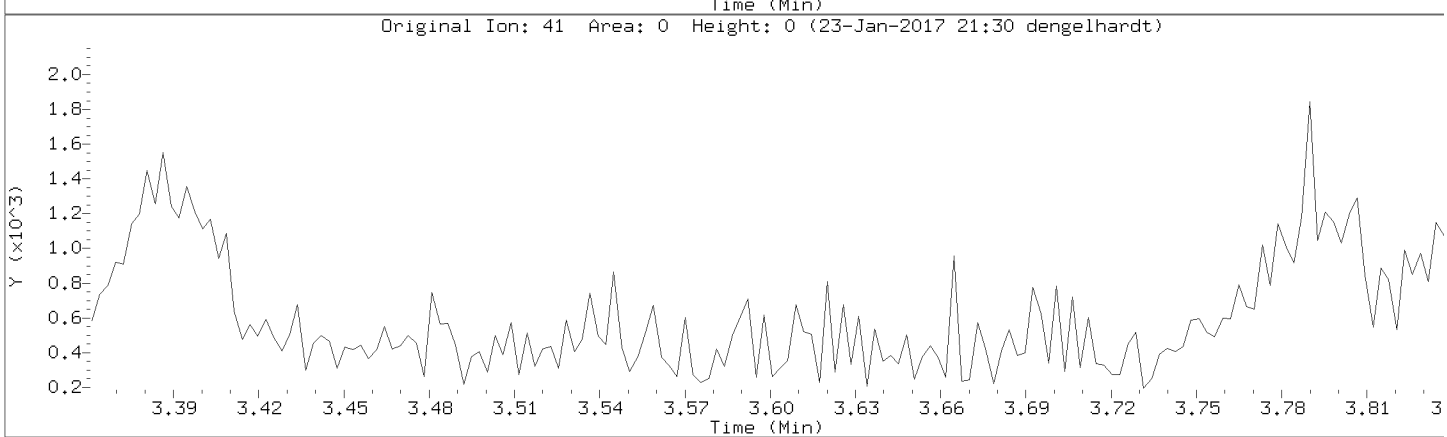
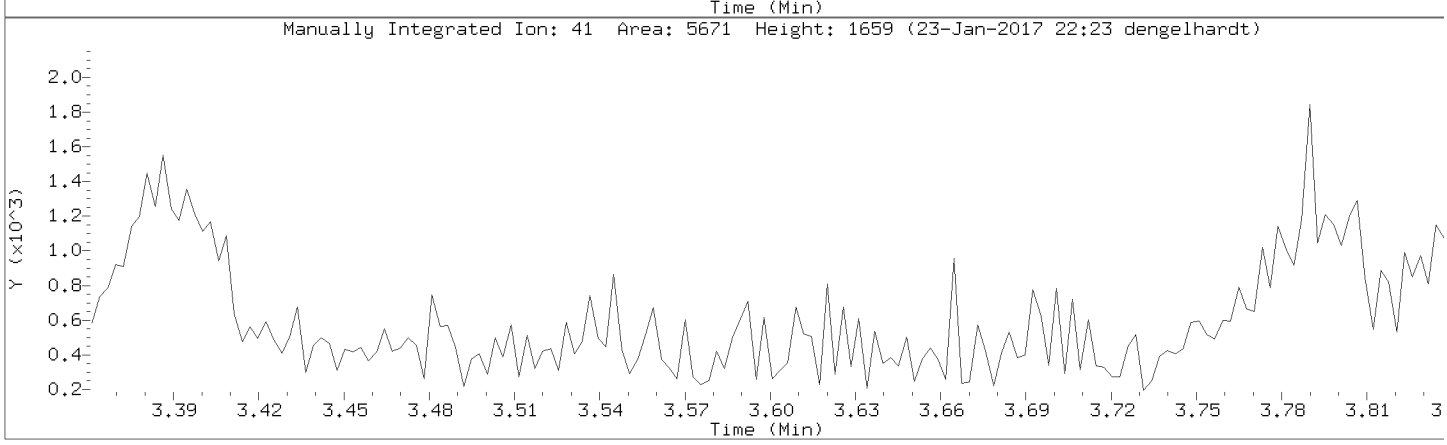
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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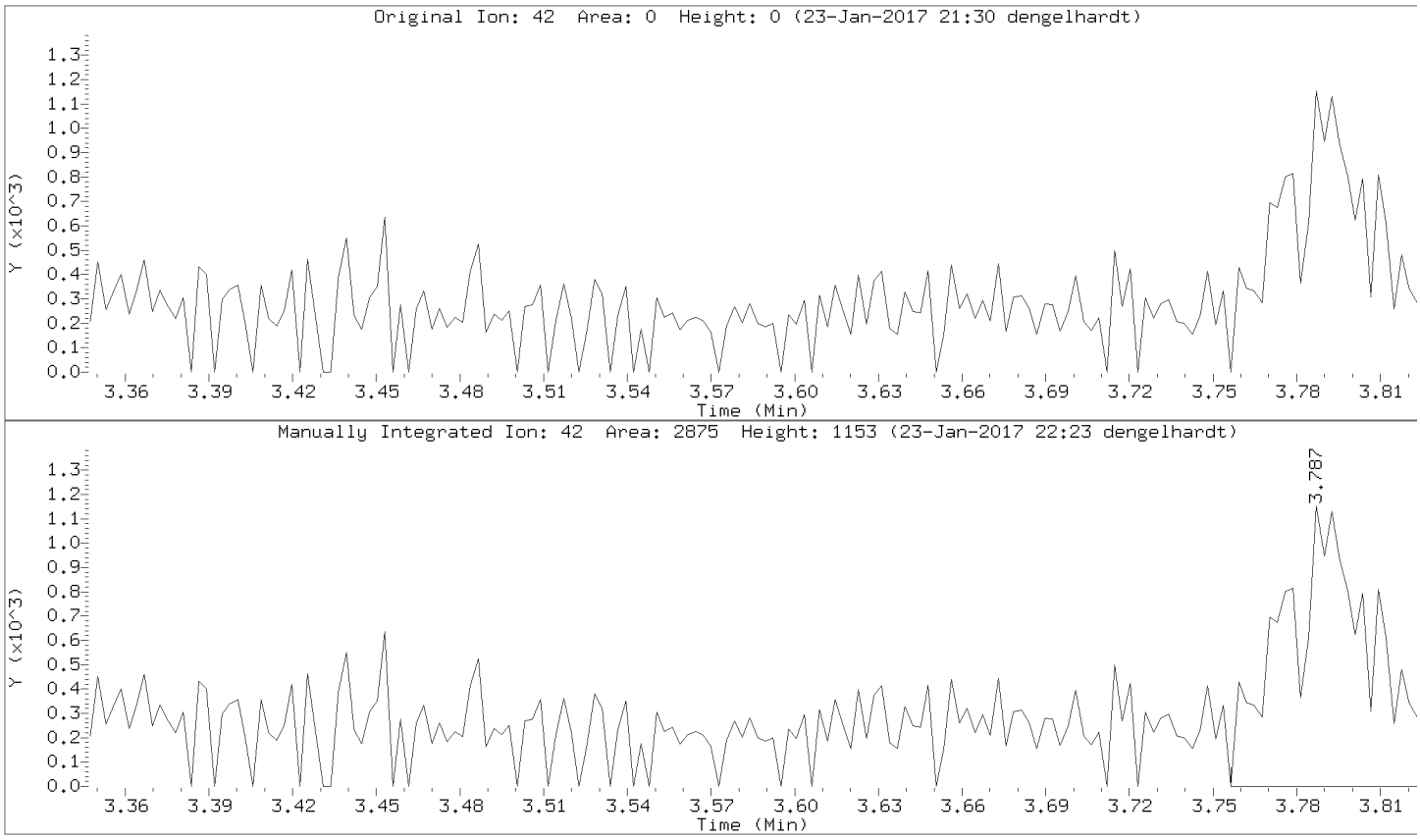
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2



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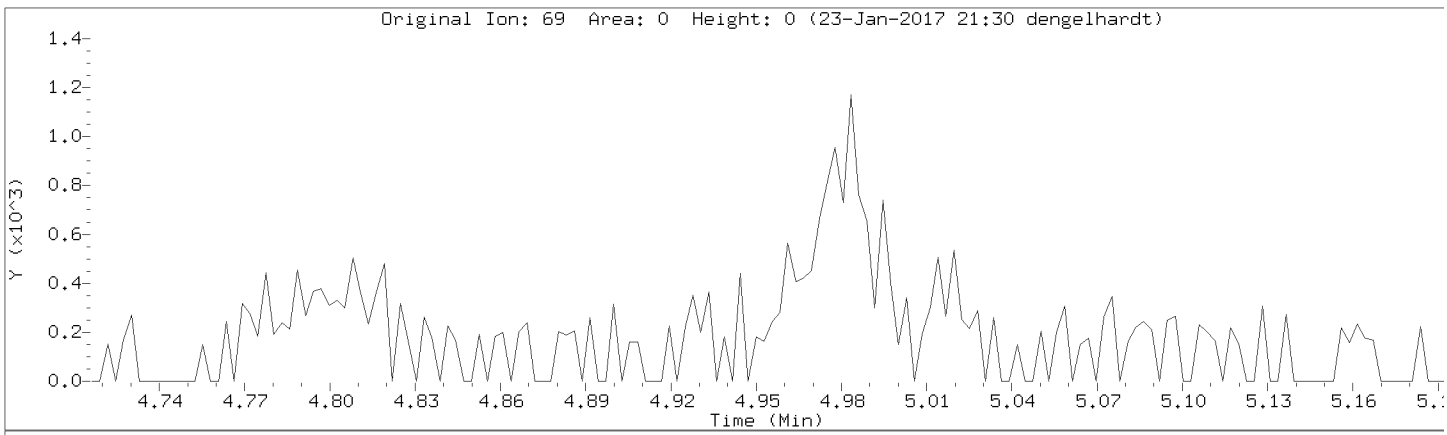
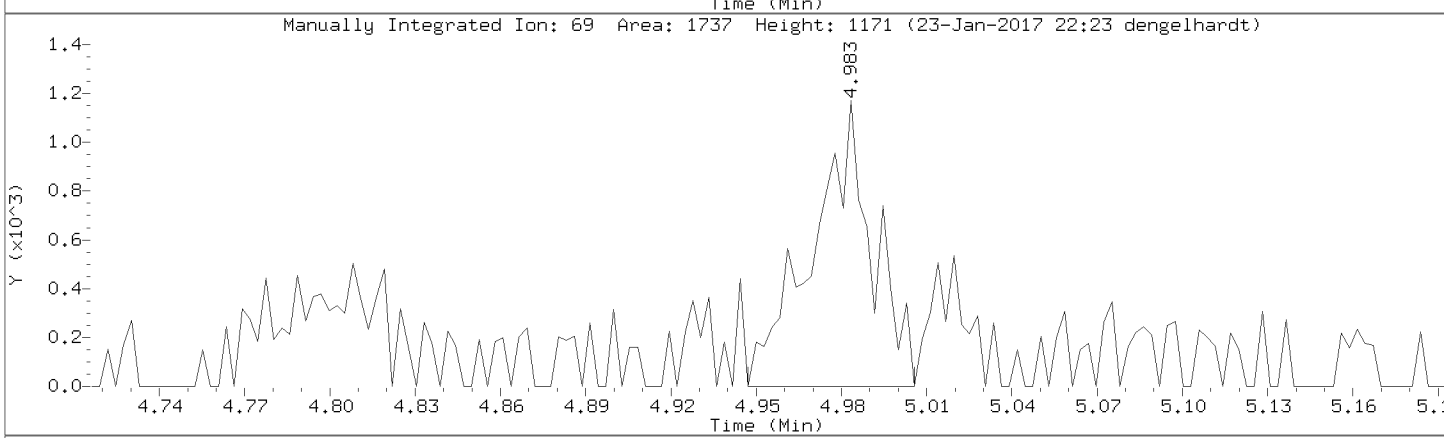
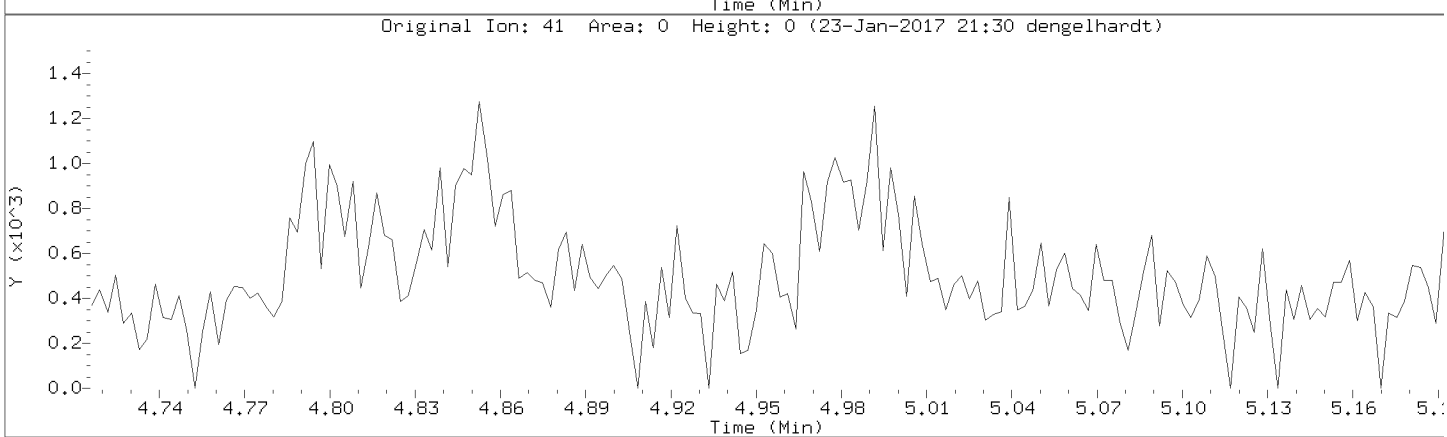
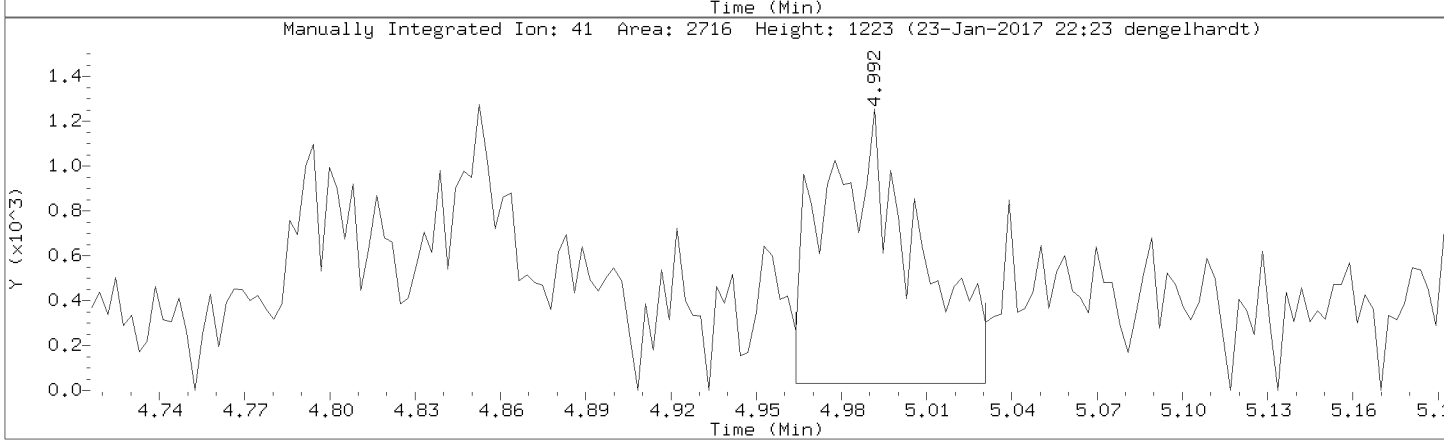
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Methyl methacrylate Review Code: LT
CAS Number: 80-62-6









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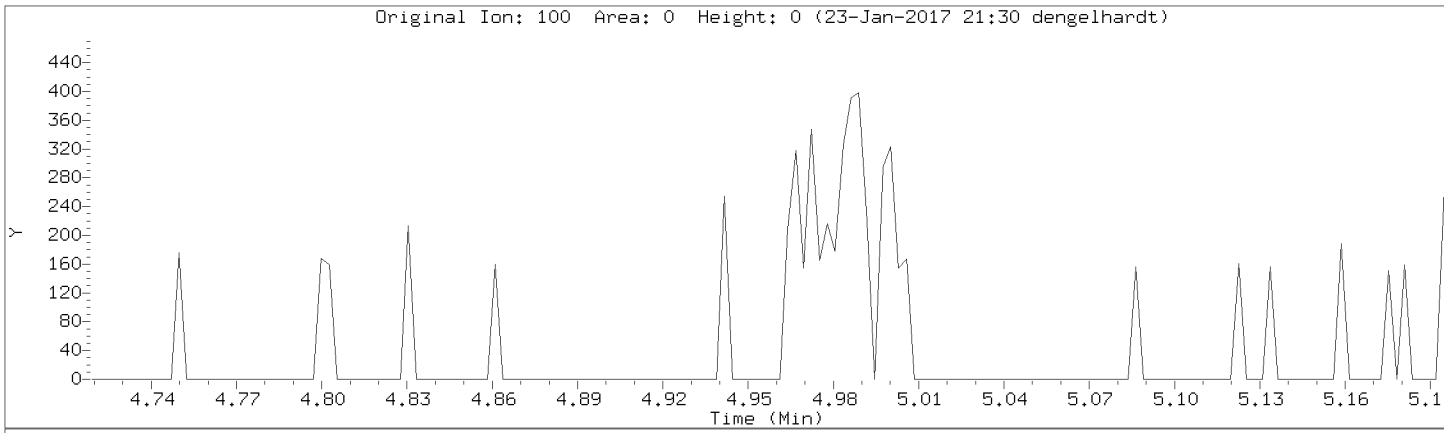
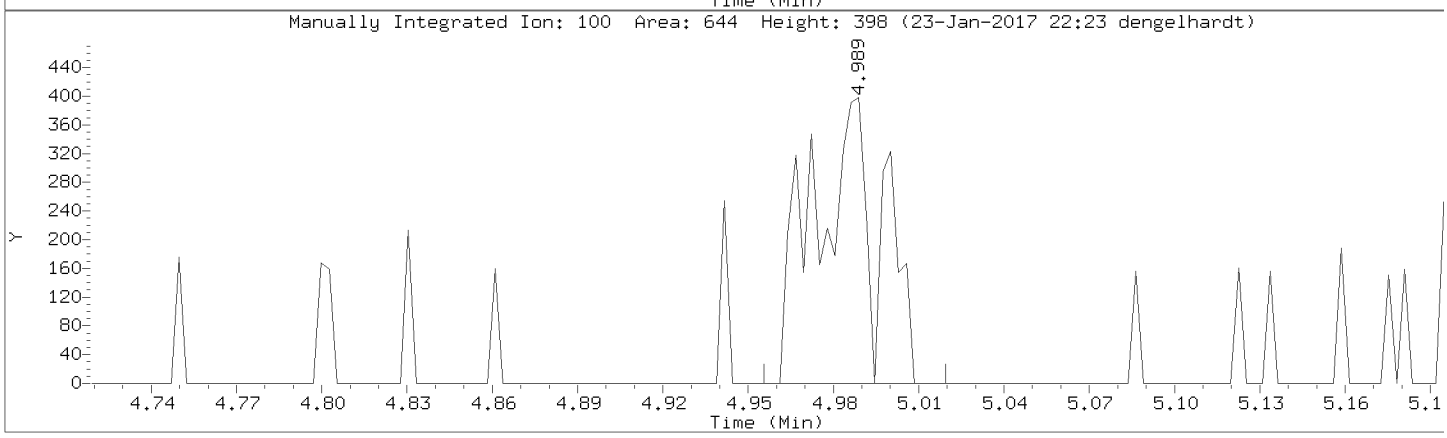
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2





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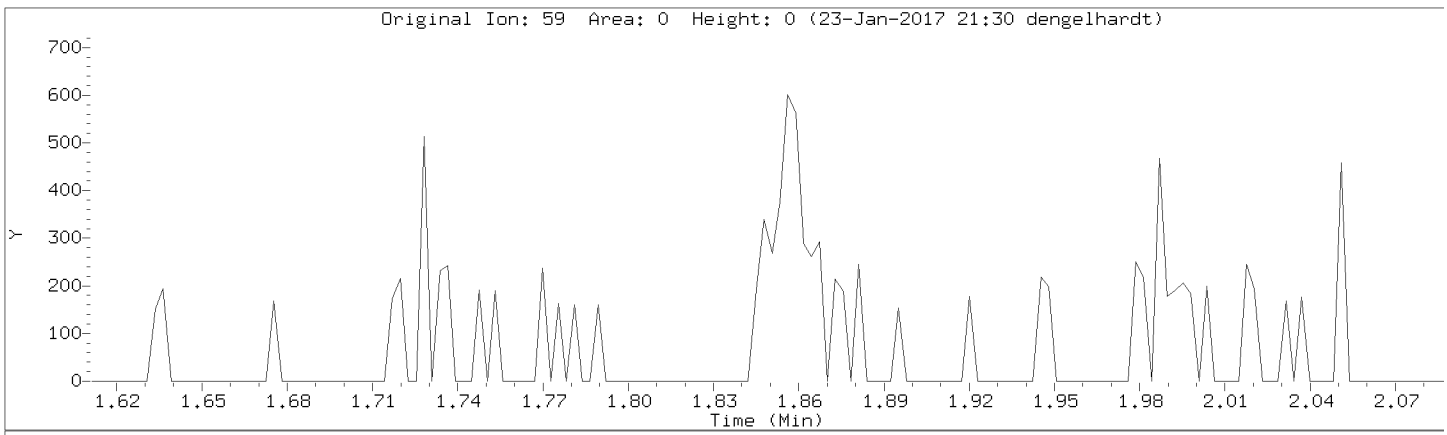
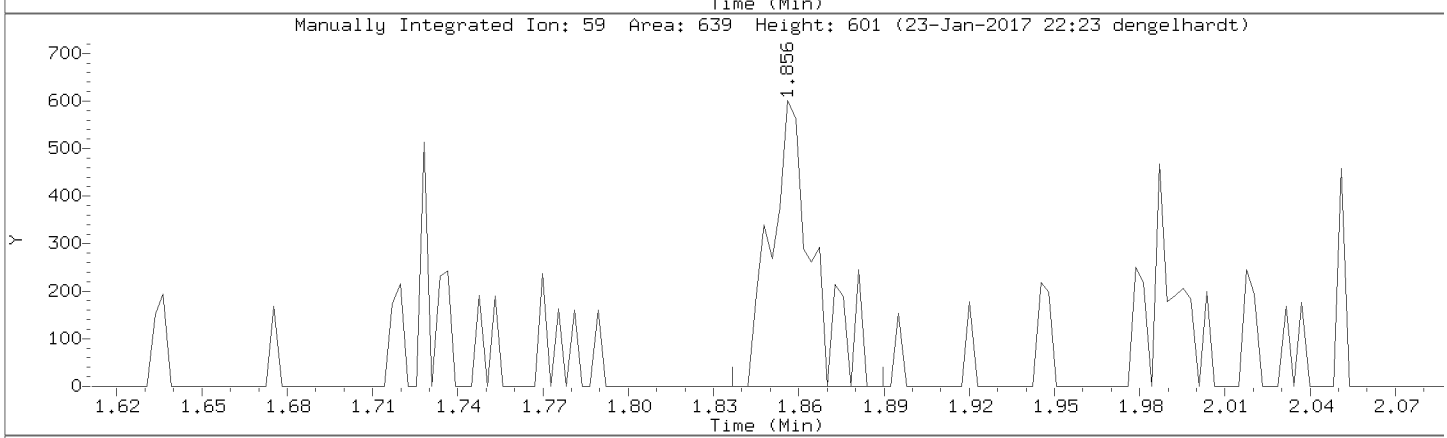
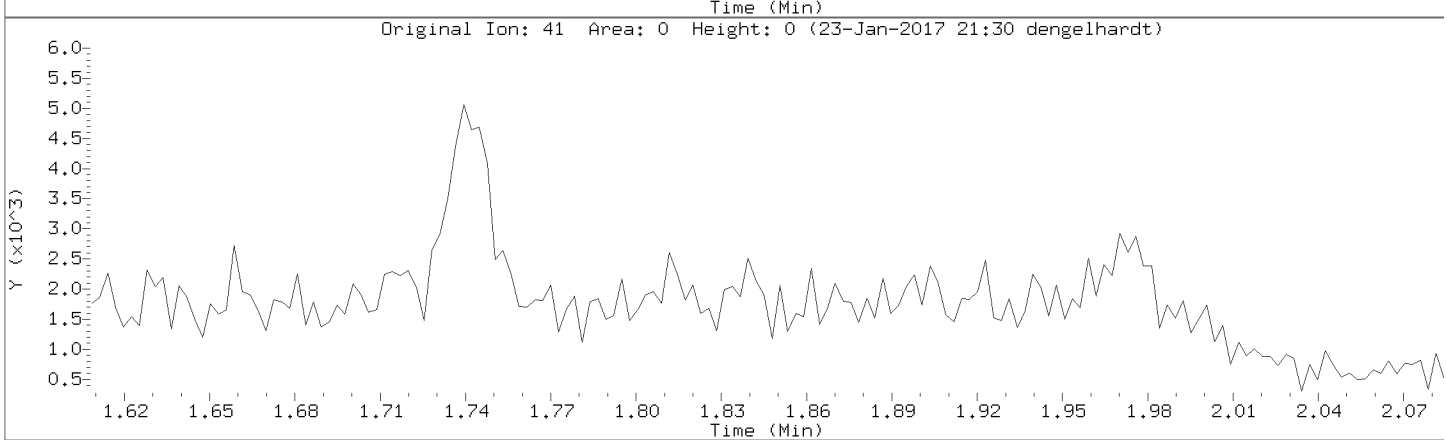
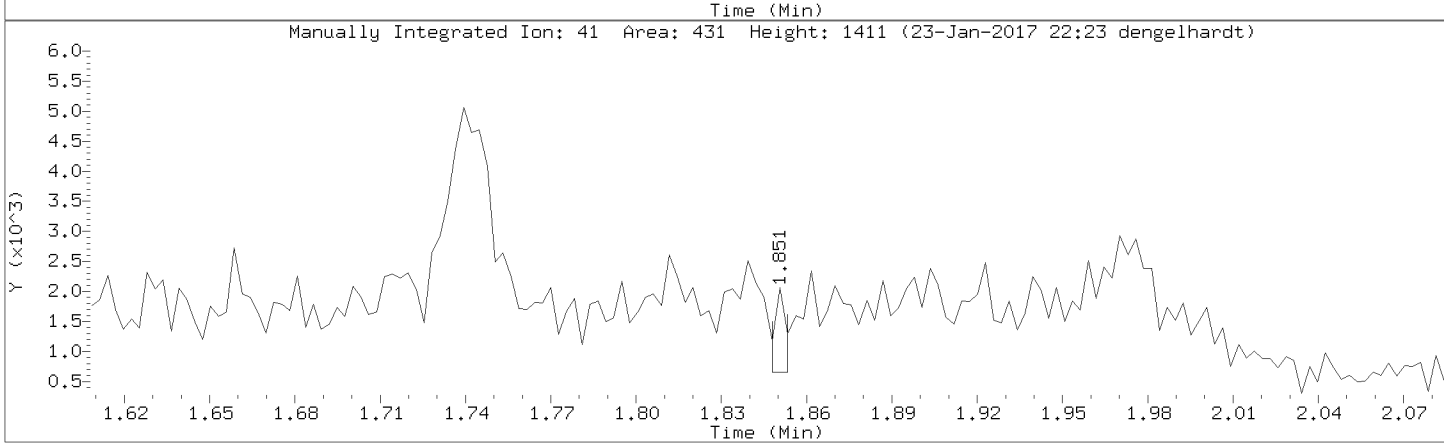
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butyl Alcohol Review Code: LT
CAS Number: 75-65-0



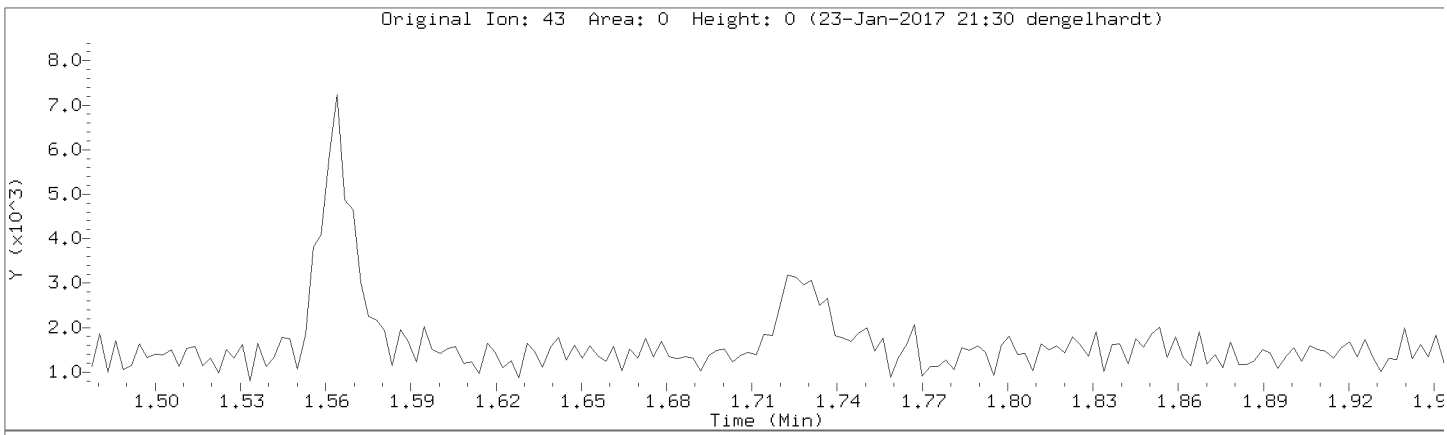


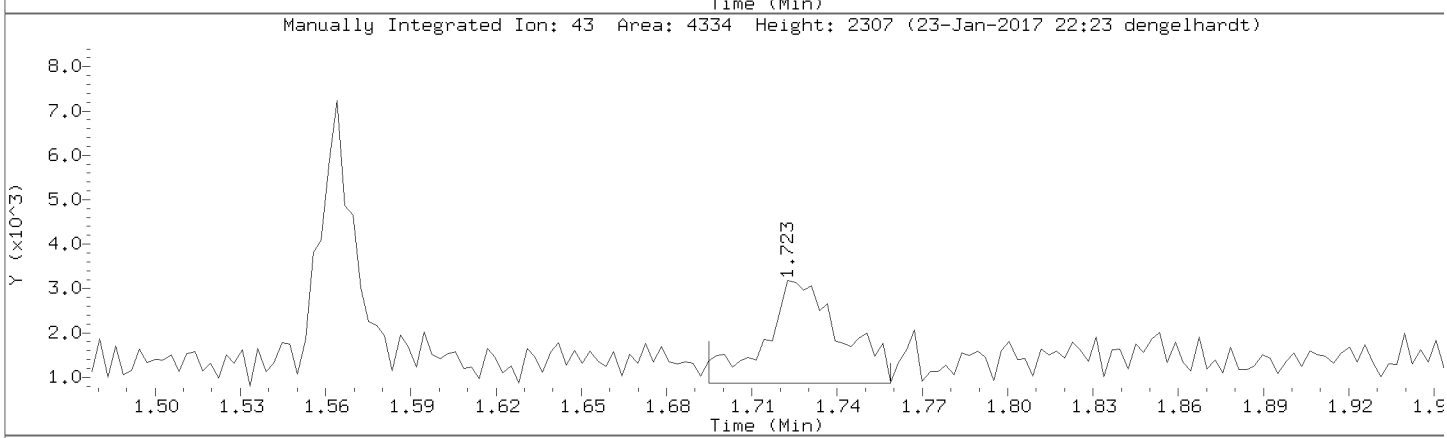


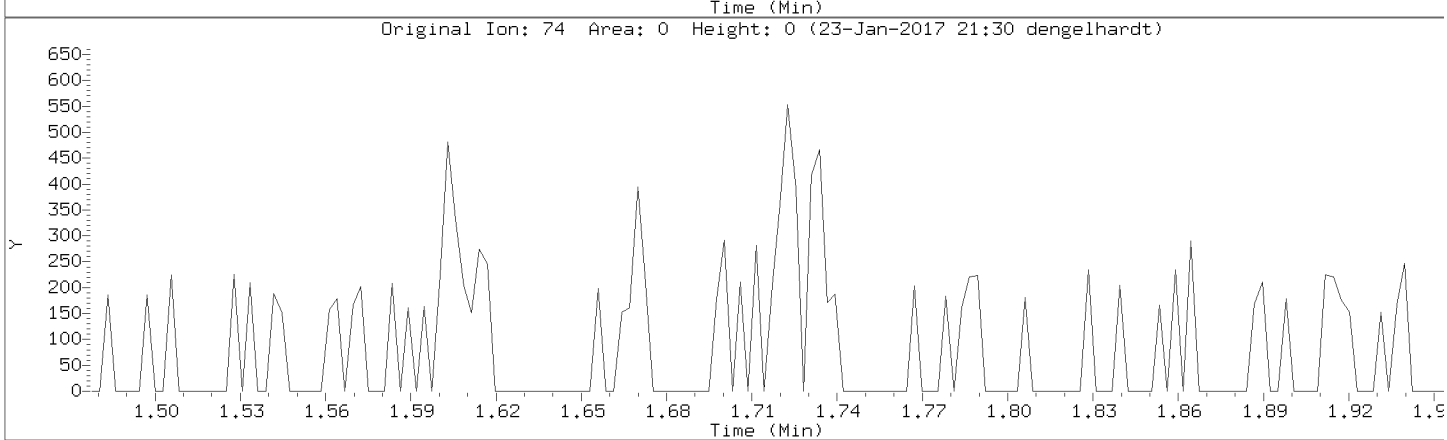


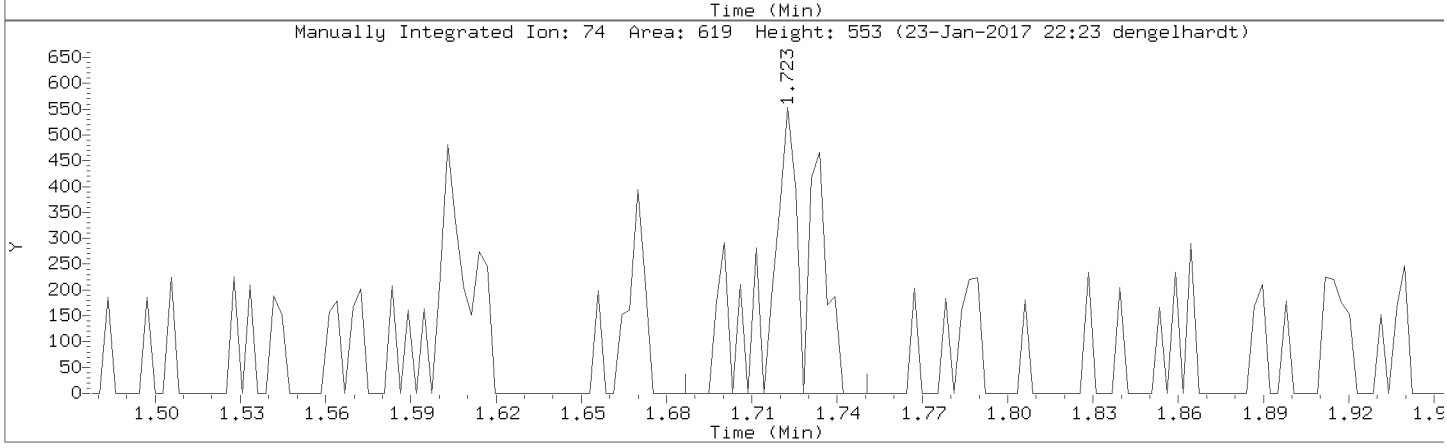
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9



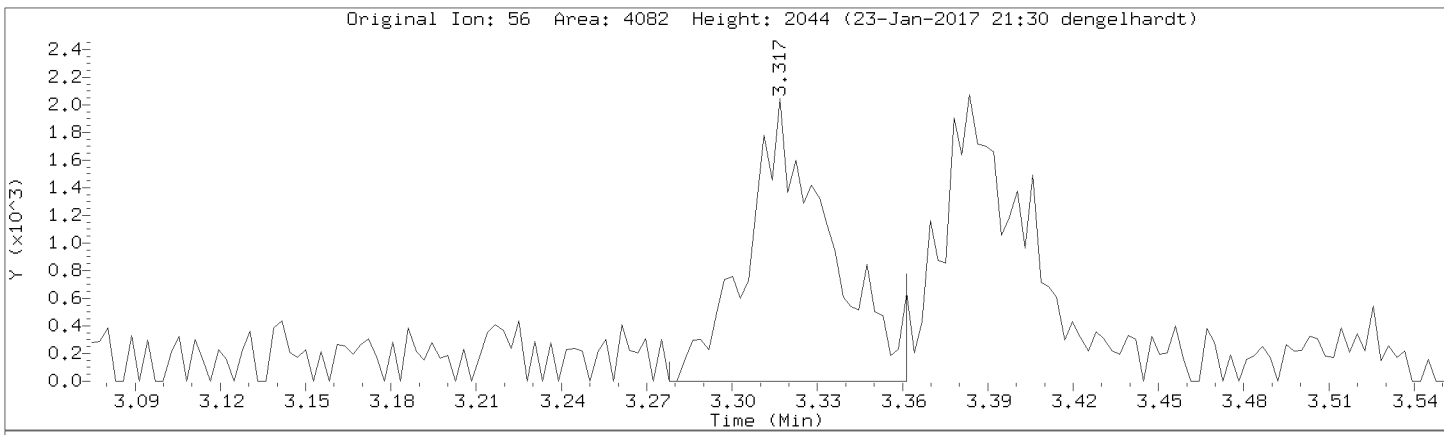


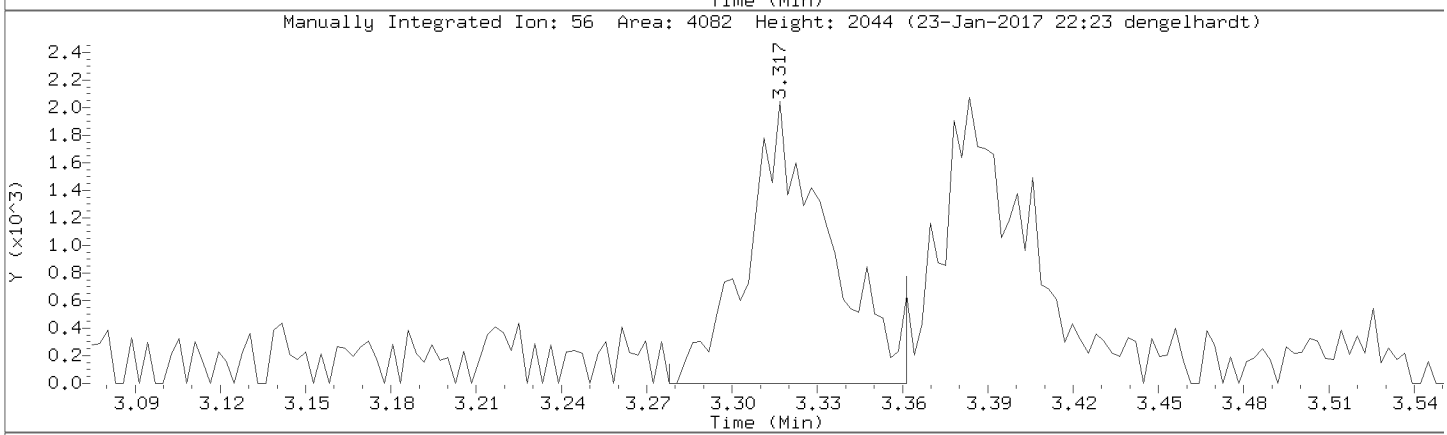


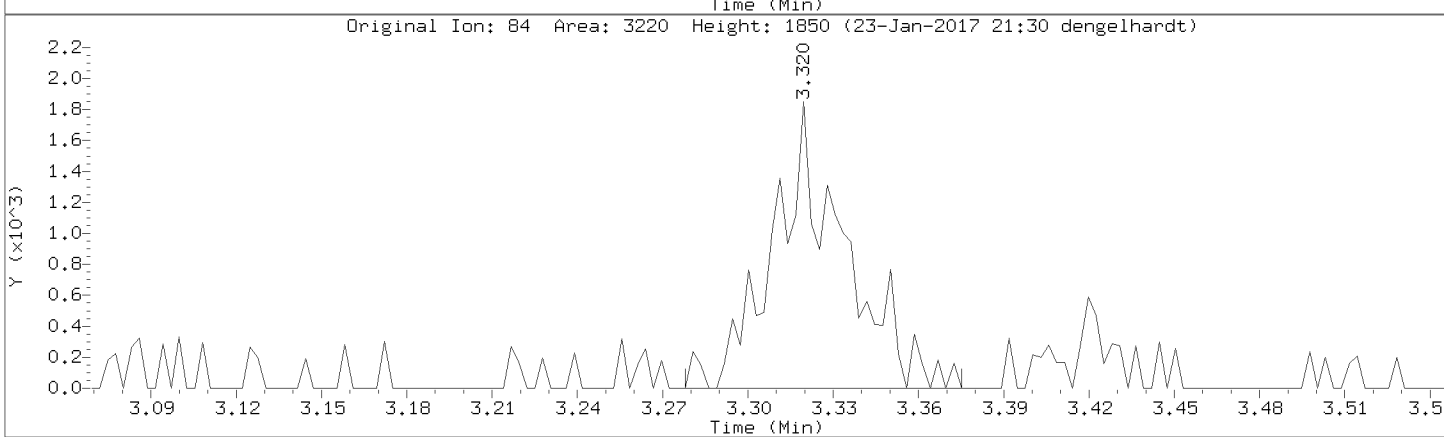


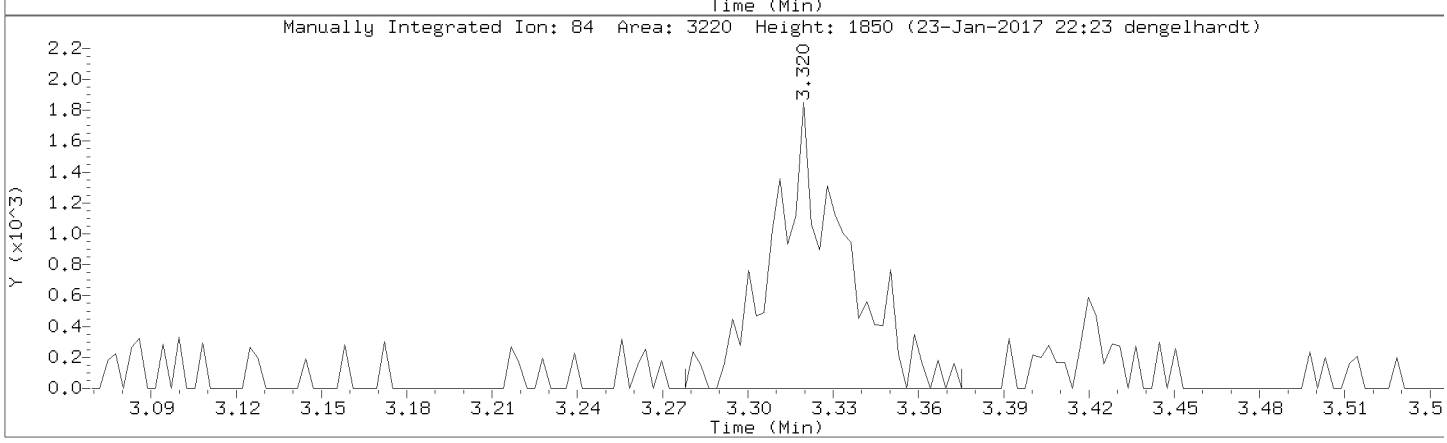
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b02cal2.d
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: cyclohexane Review Code: LT
CAS Number: 110-82-7









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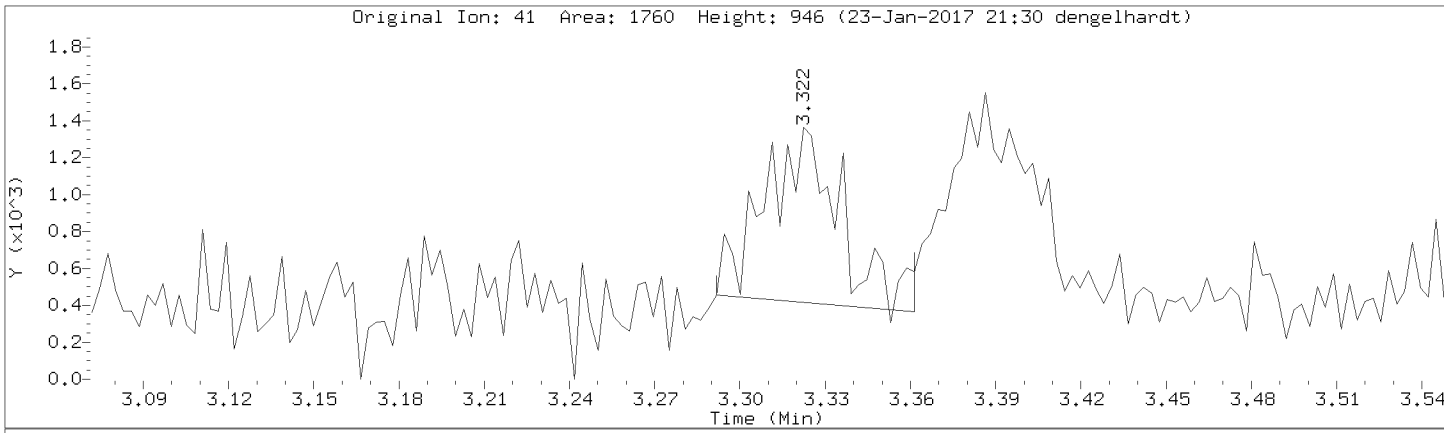
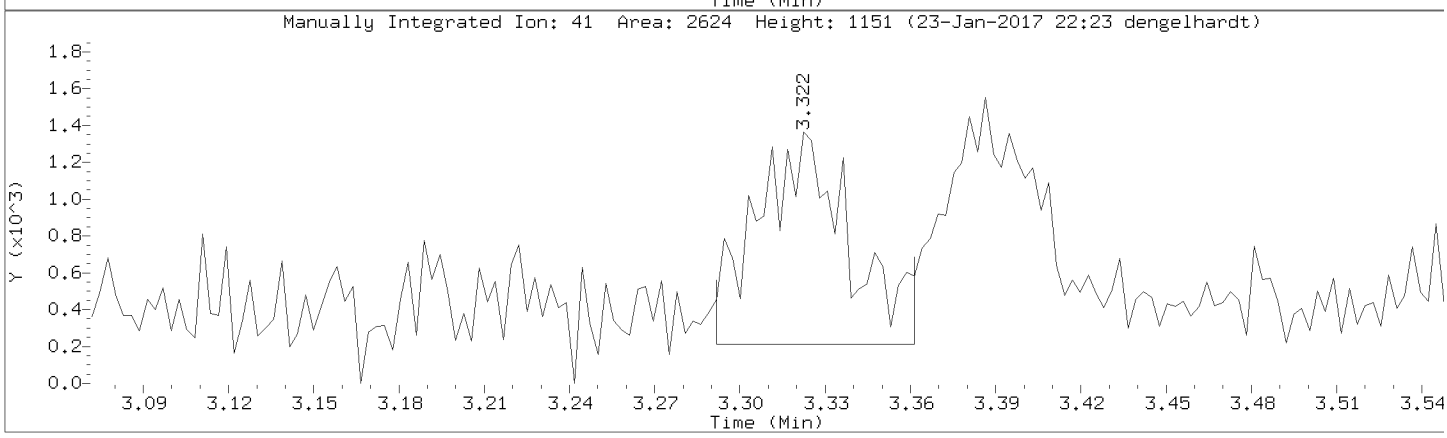
Lab Sample ID: 8260-CAL2





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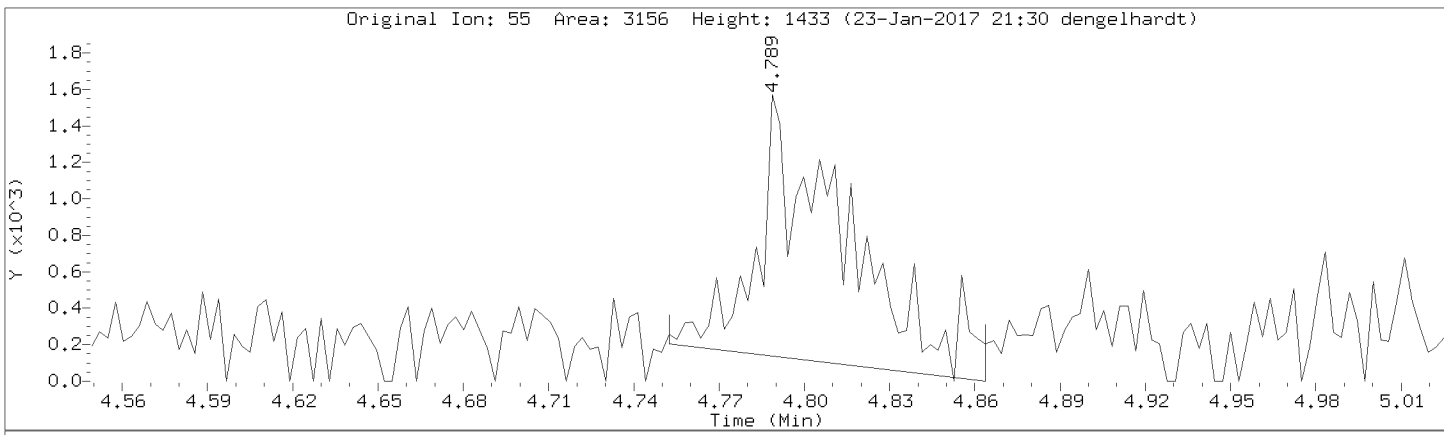
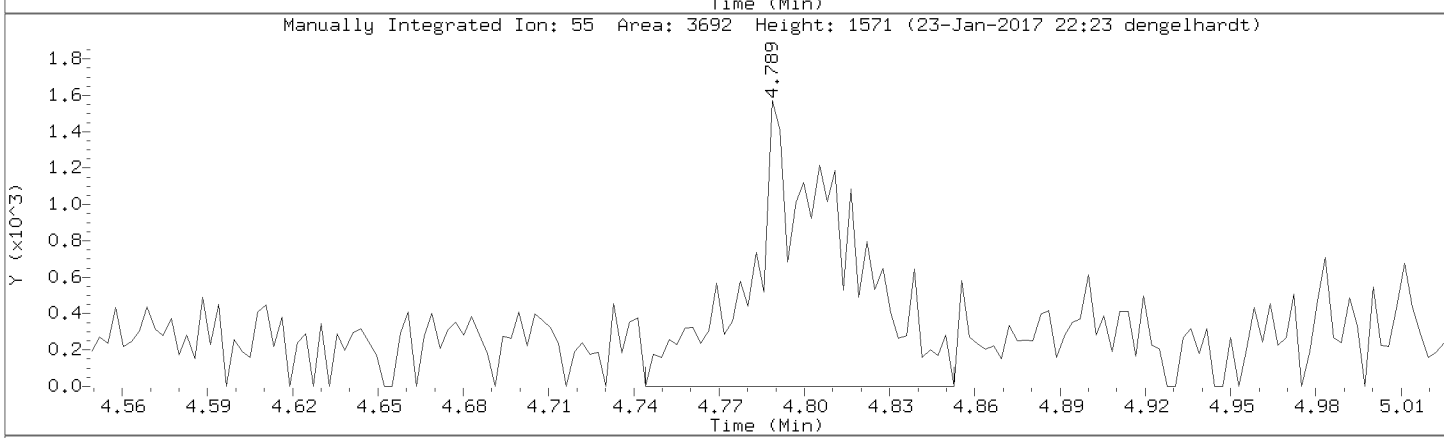
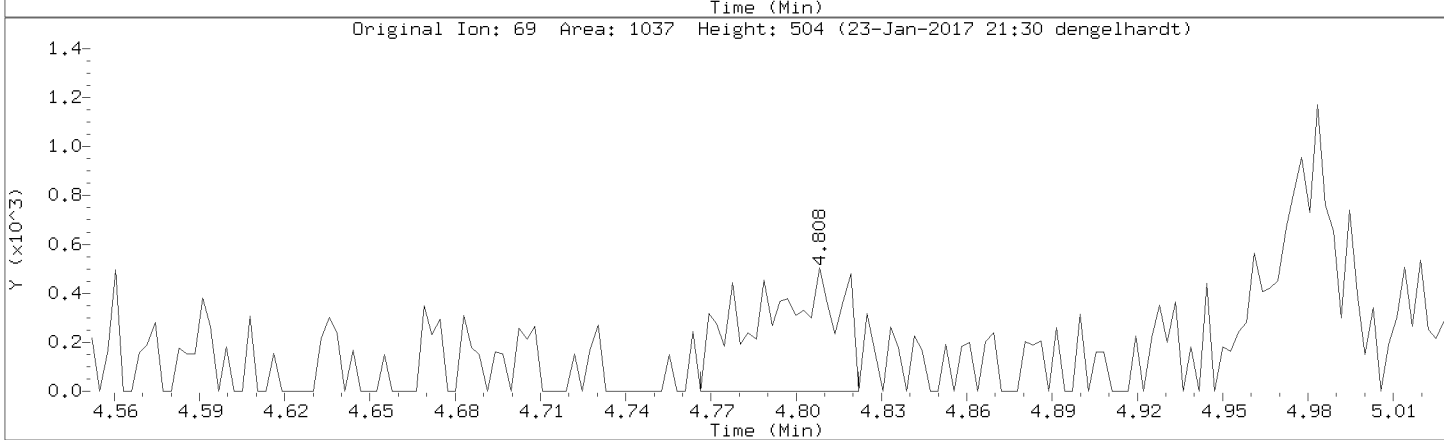
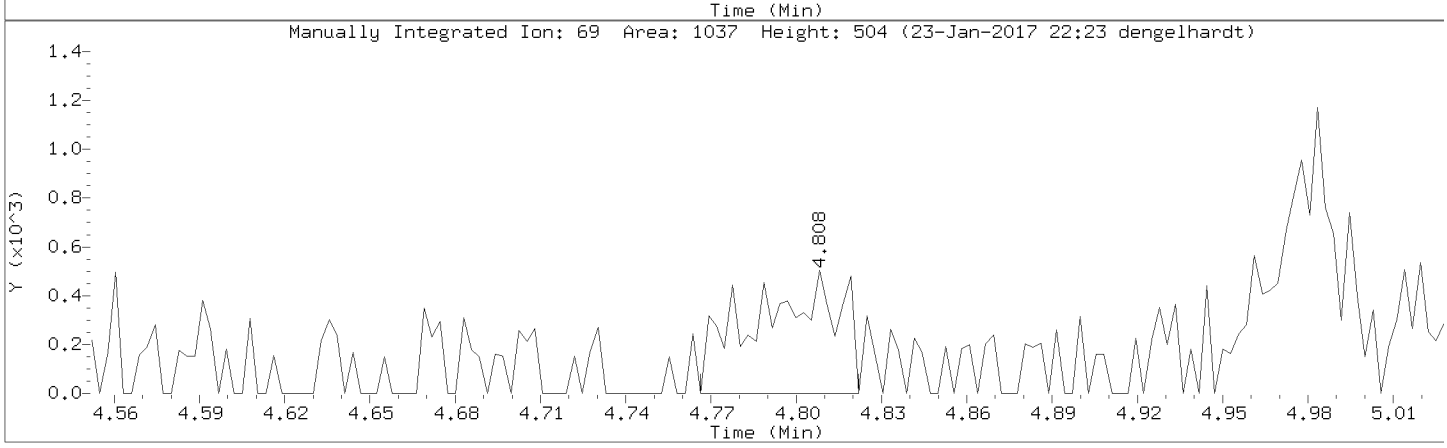
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Methylcyclohexane Review Code: LT
CAS Number: 108-87-2









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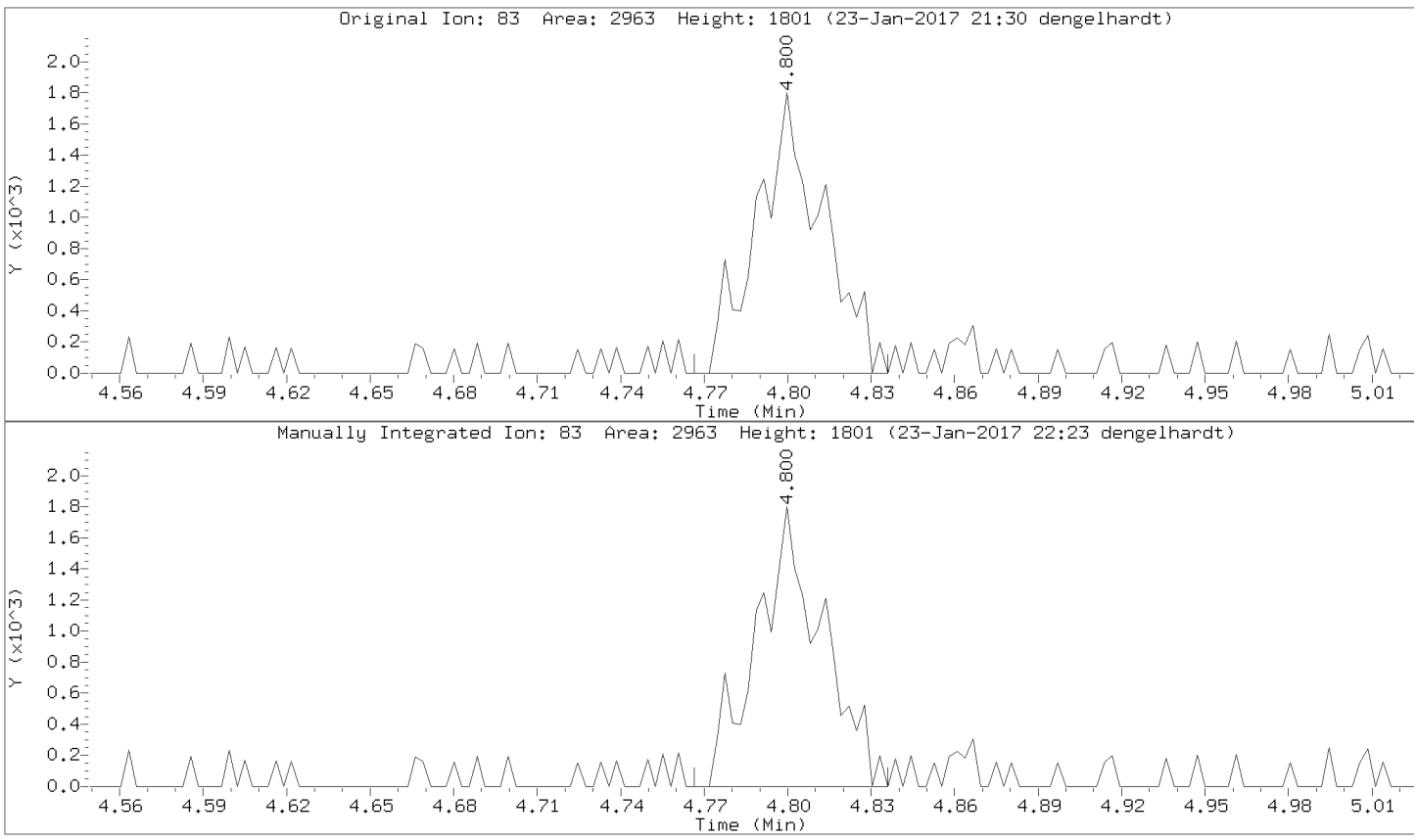
Lab Sample ID: 8260-CAL2



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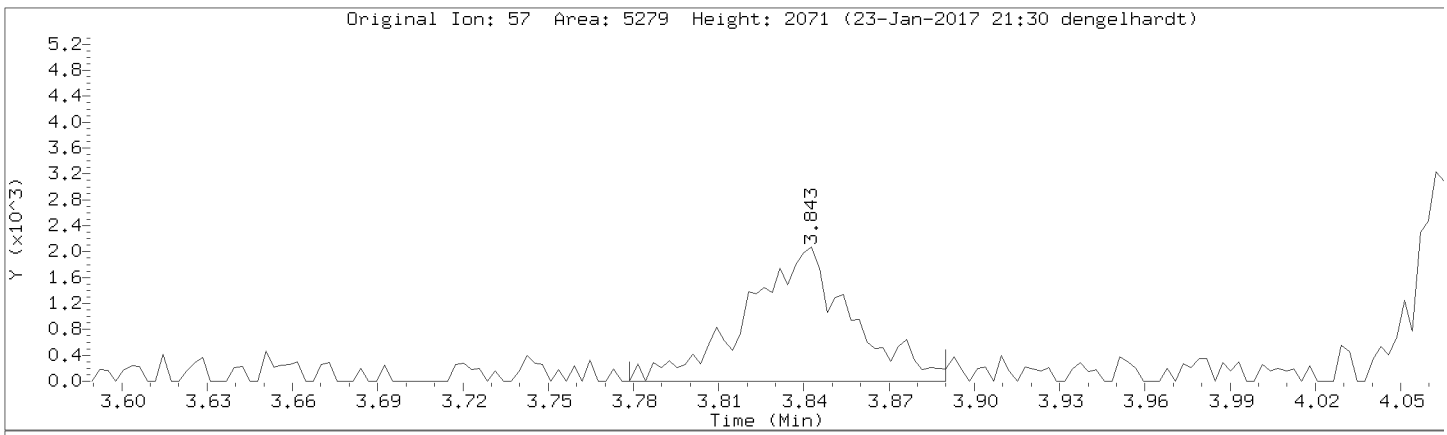
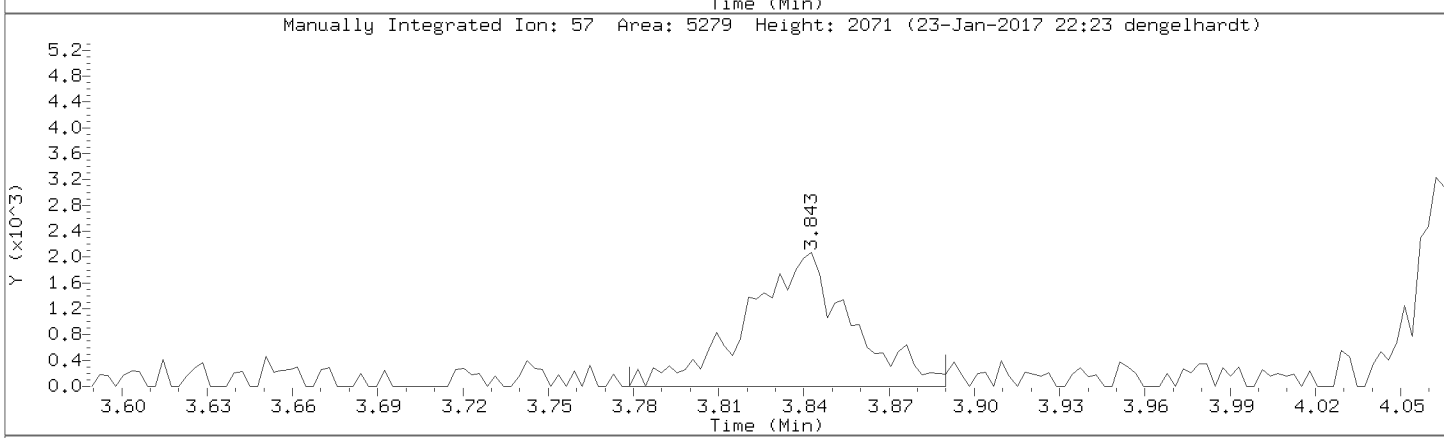
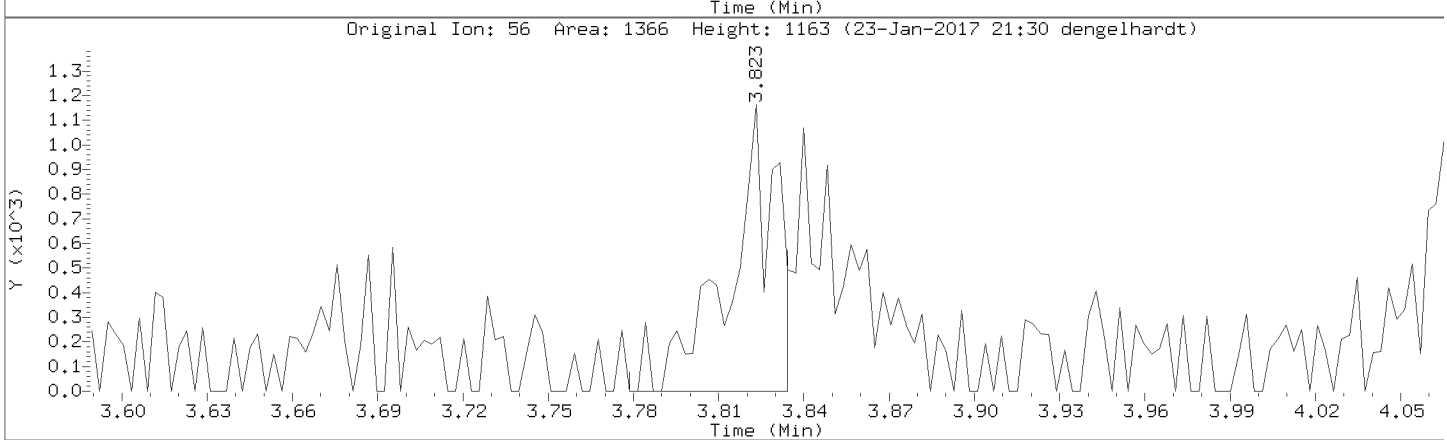
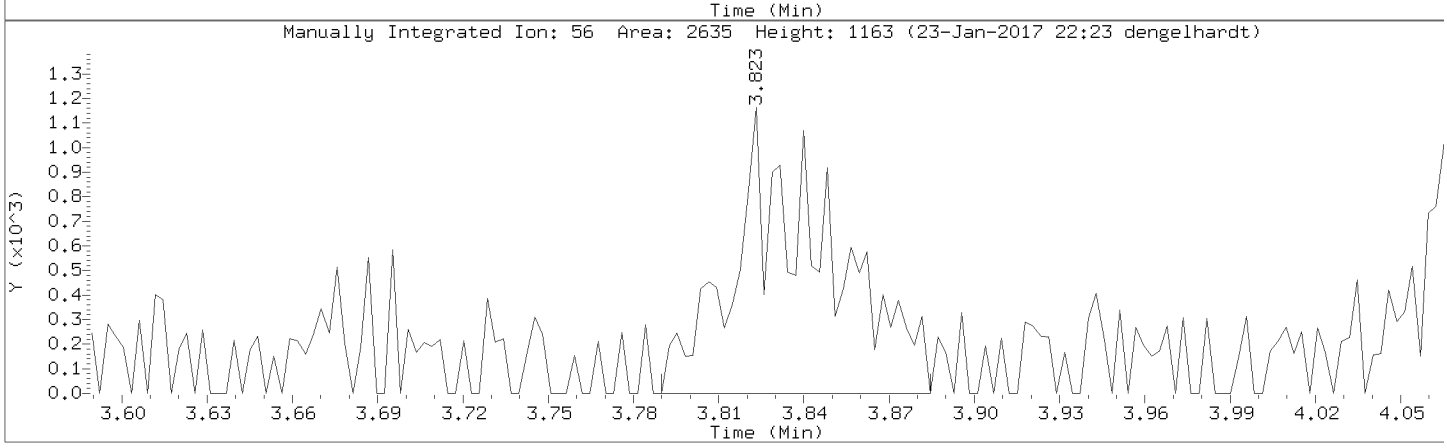
Injection Date: 22-JAN-2017 22:43
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 2,2,4-Trimethylpentane Review Code: LT
CAS Number: 540-84-1









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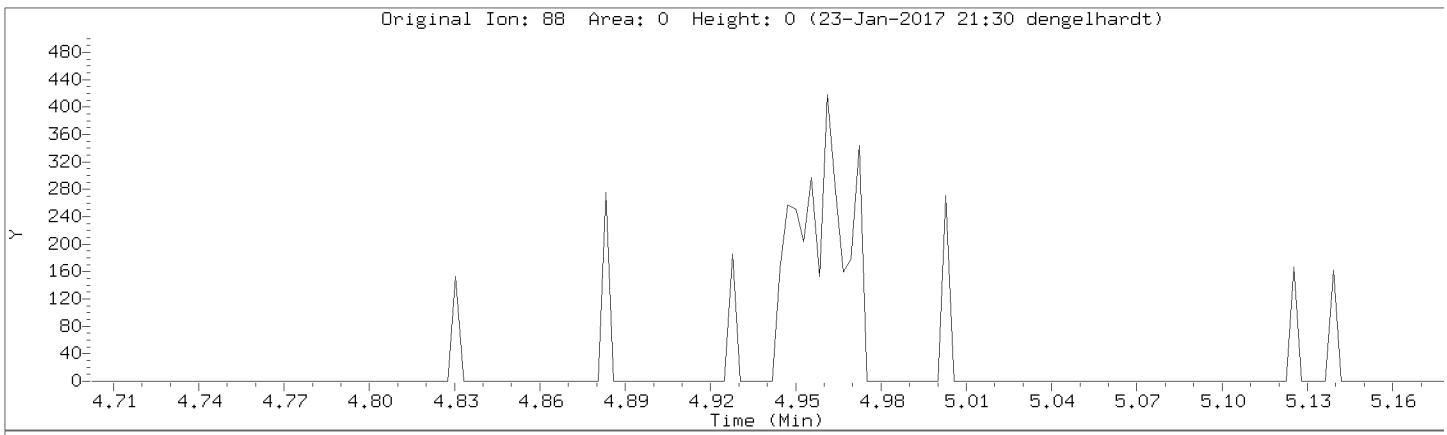
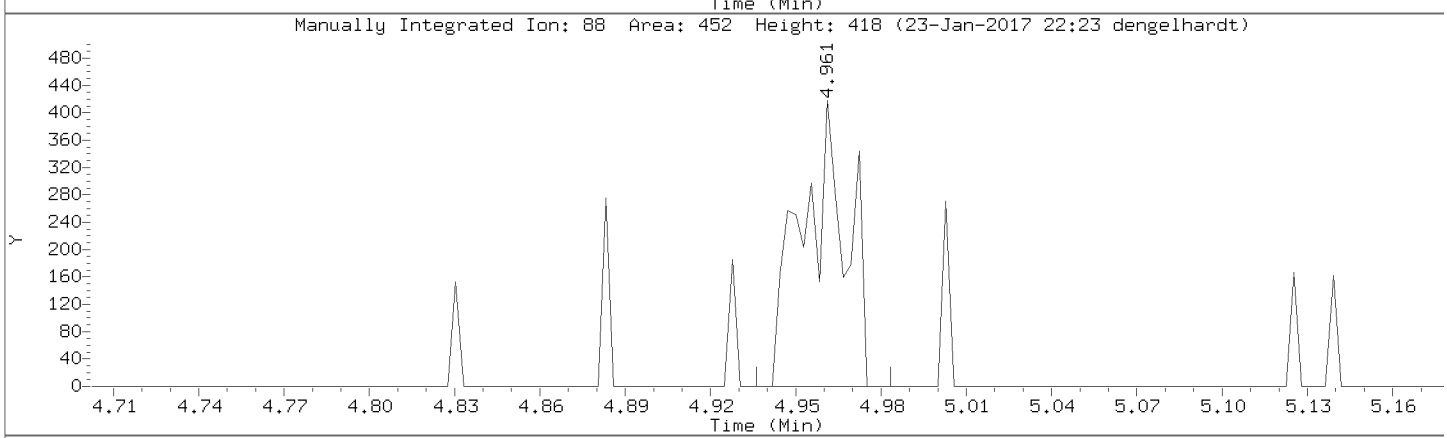
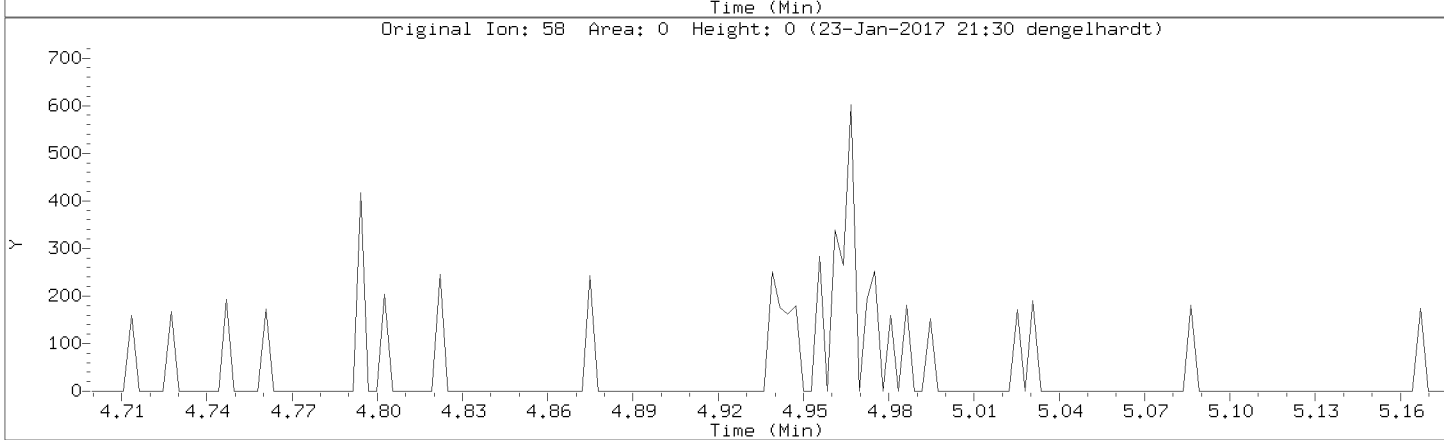
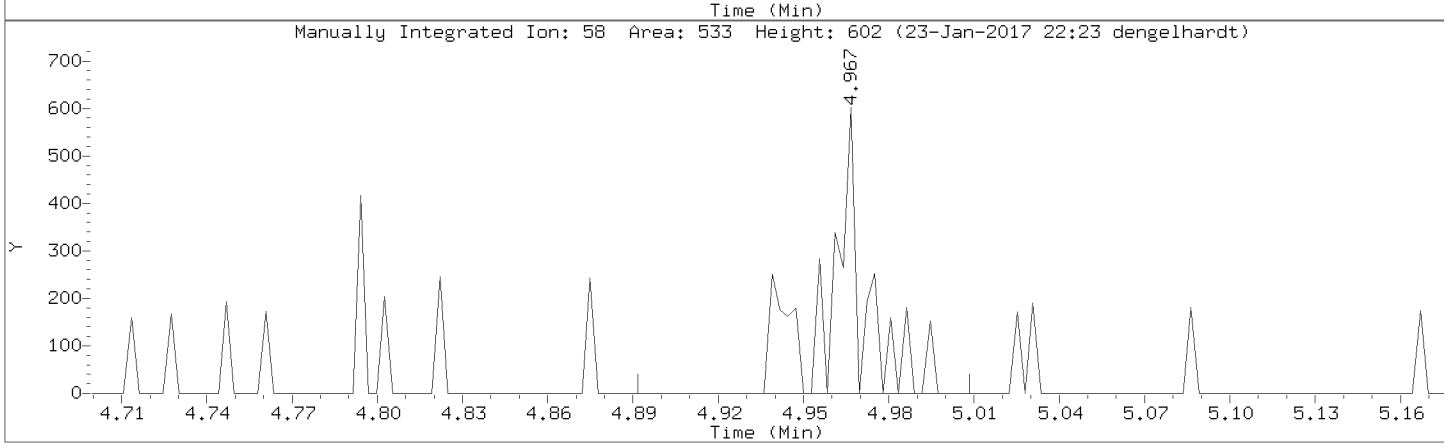
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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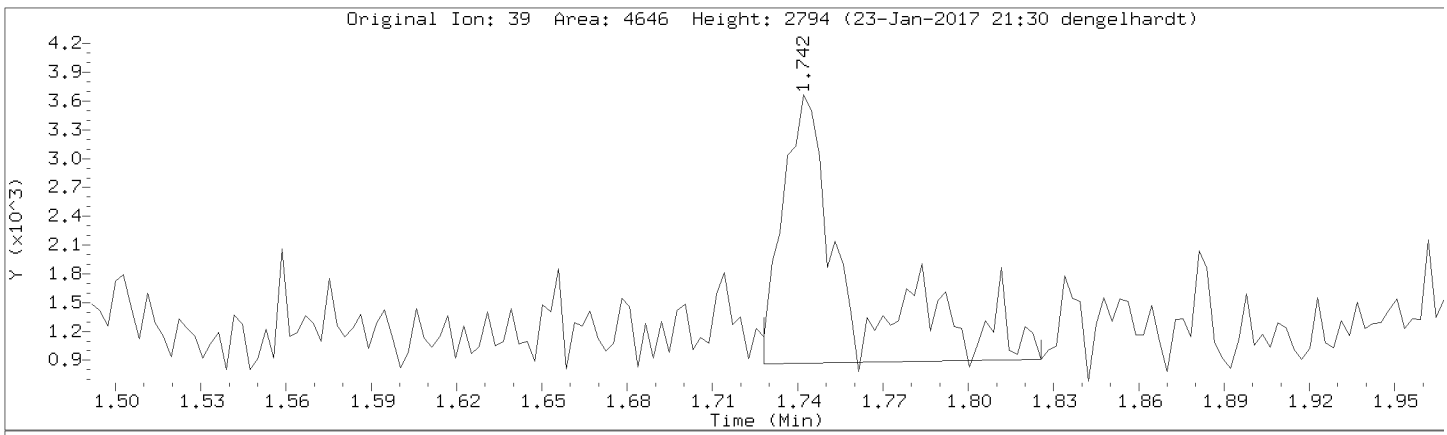
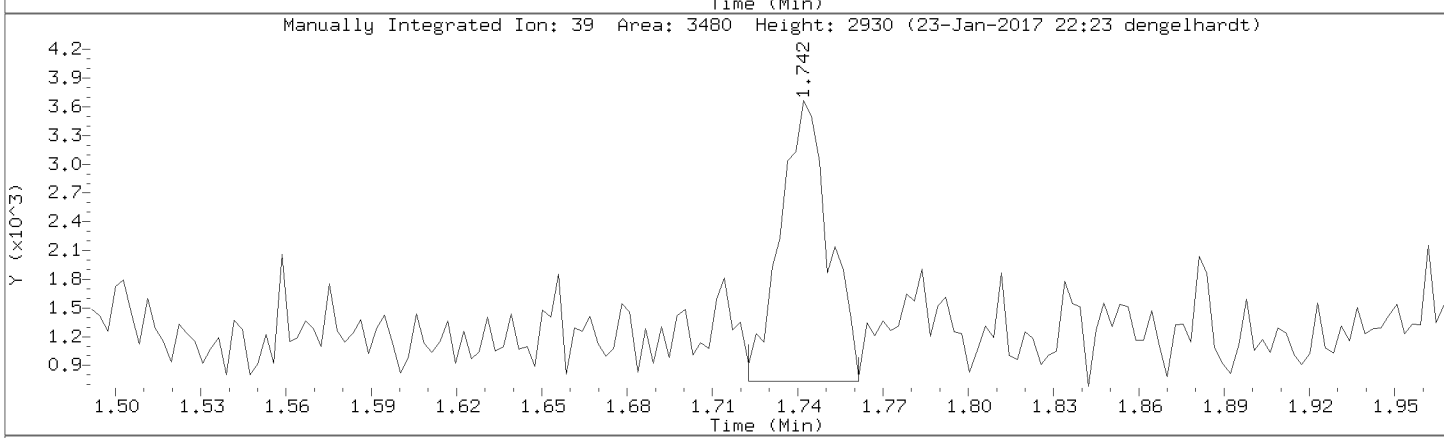
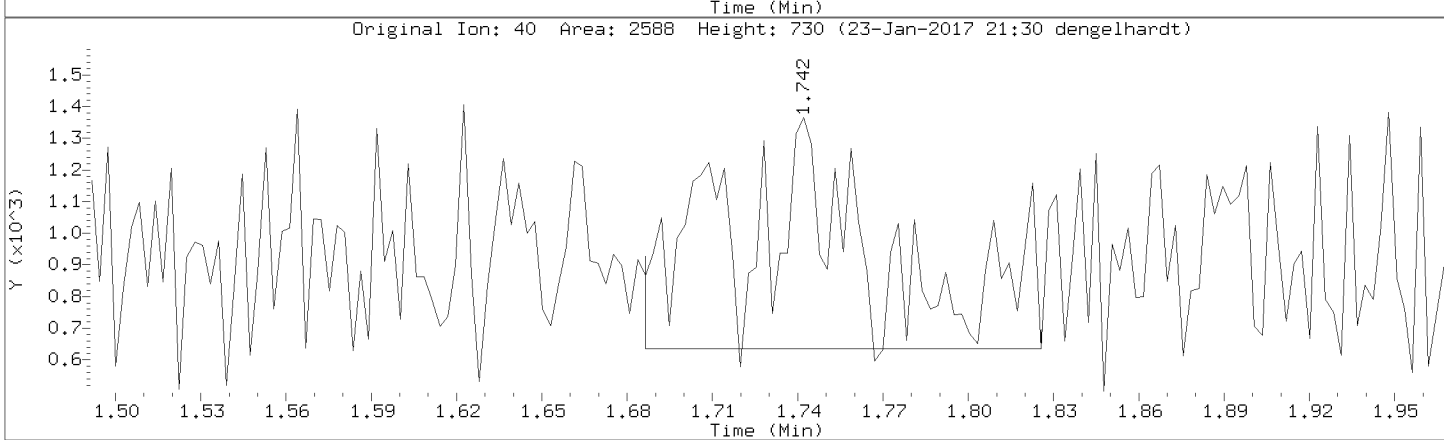
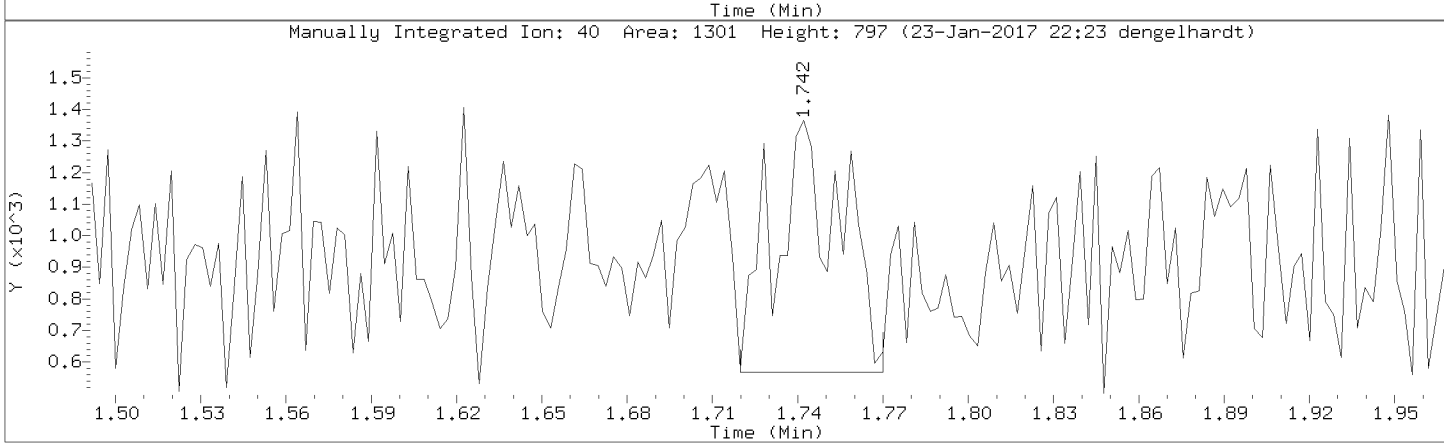
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile Review Code: LT
CAS Number: 75-05-8









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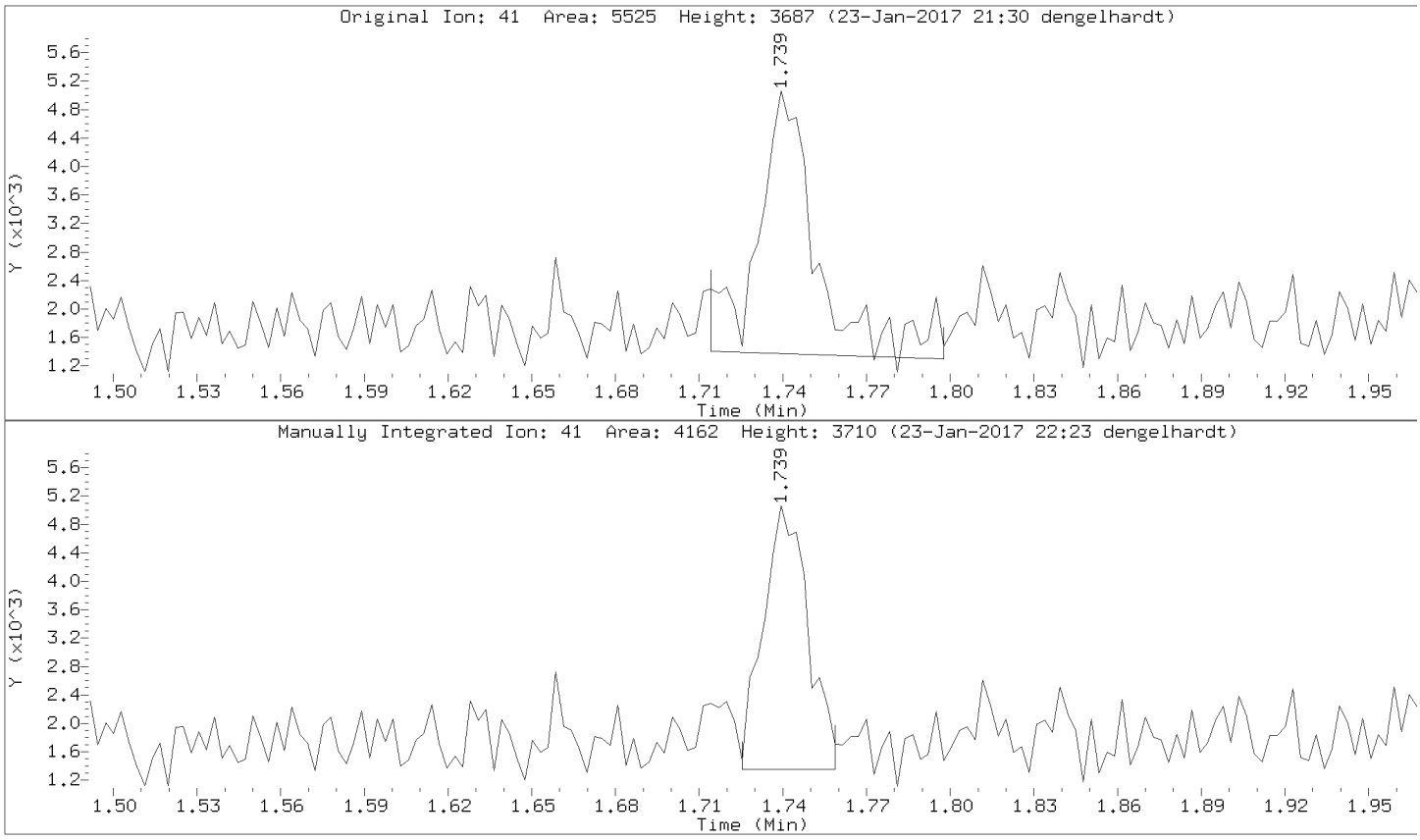
Lab Sample ID: 8260-CAL2



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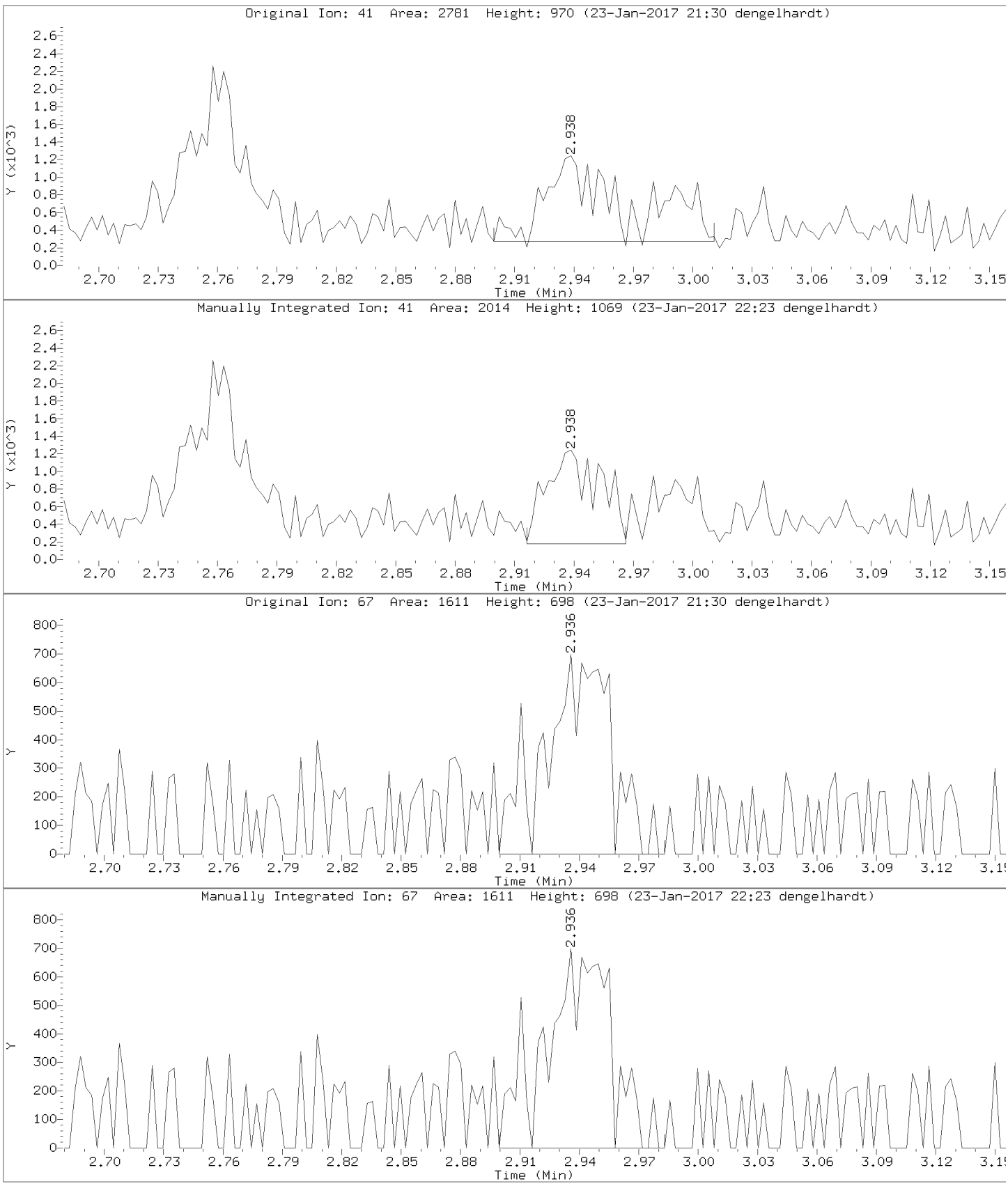
Lab Sample ID: 8260-CAL2

Compound: Methacrylonitrile Review Code: LT
CAS Number: 126-98-7



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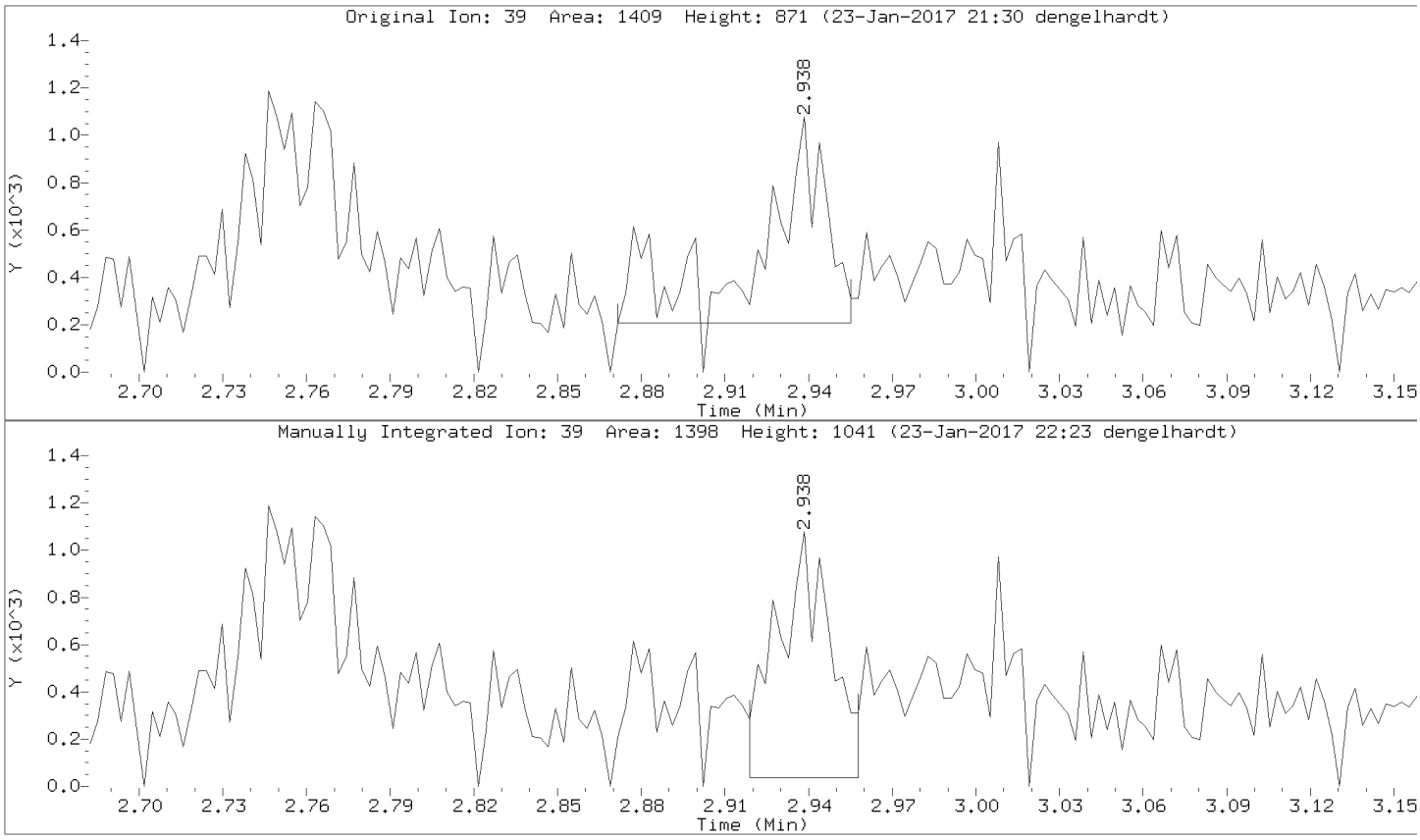

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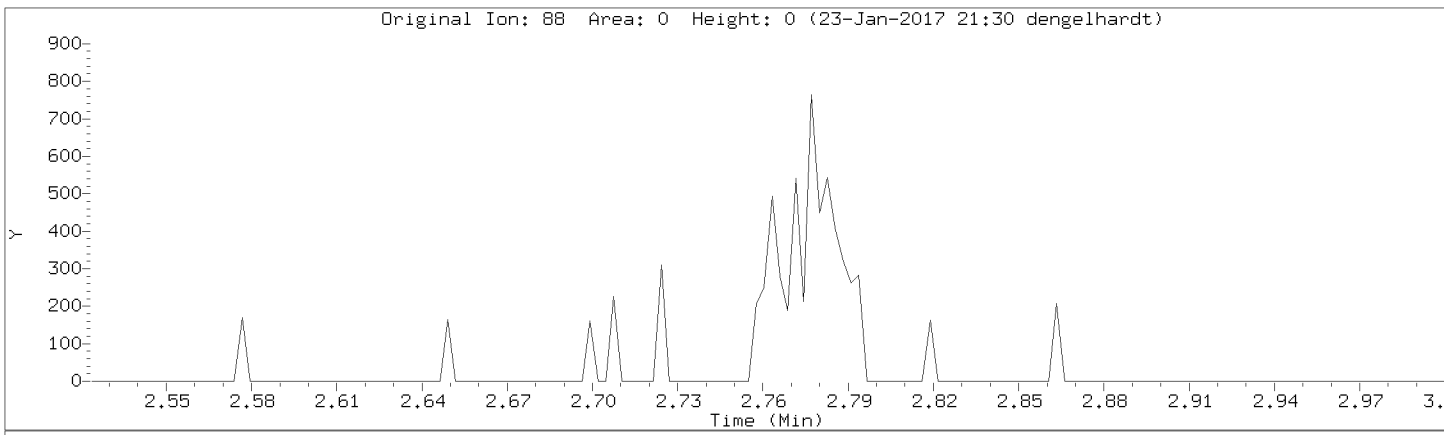
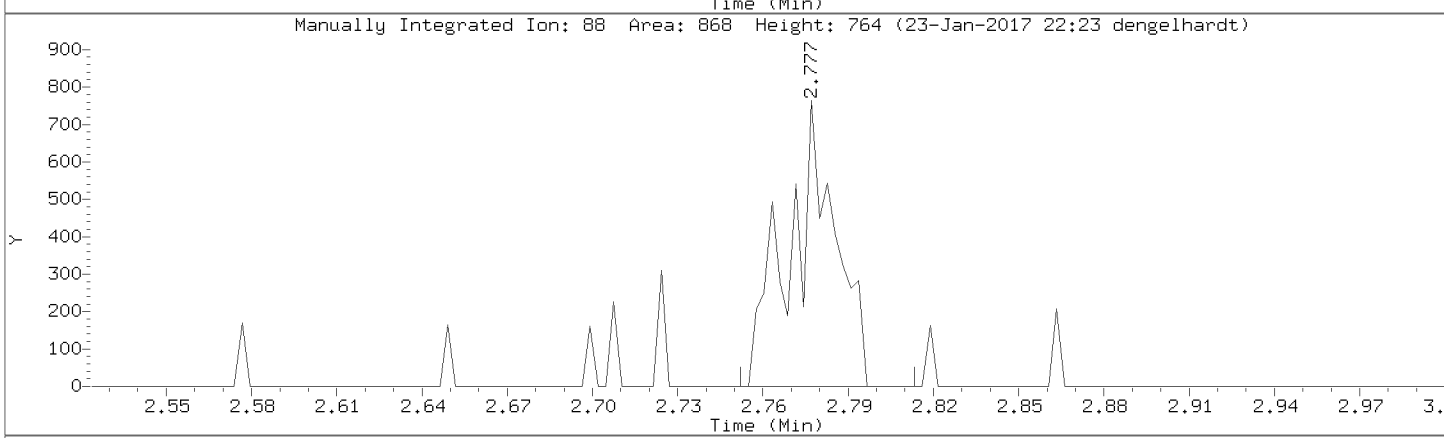
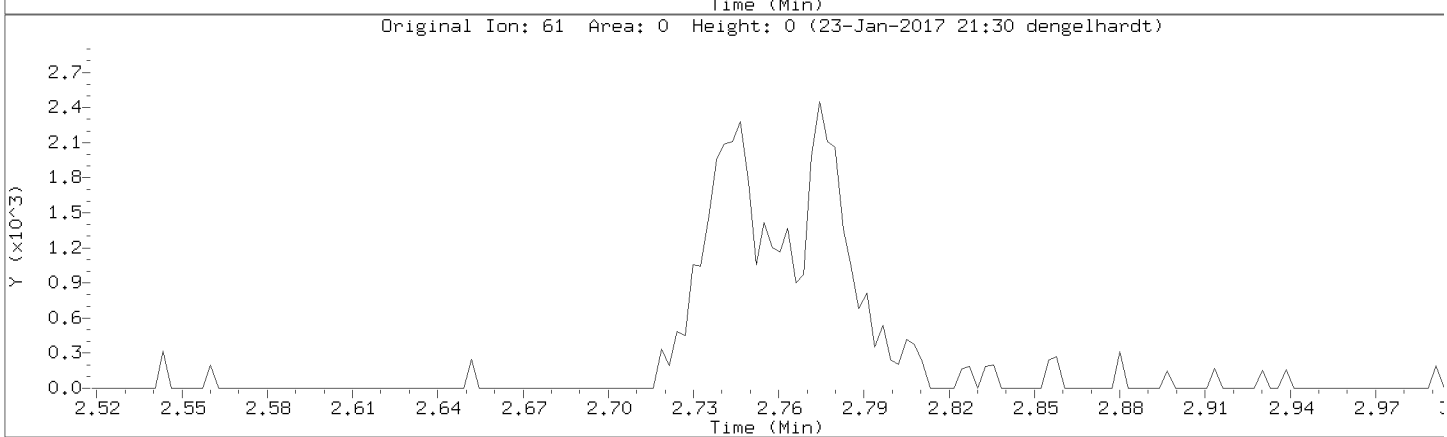
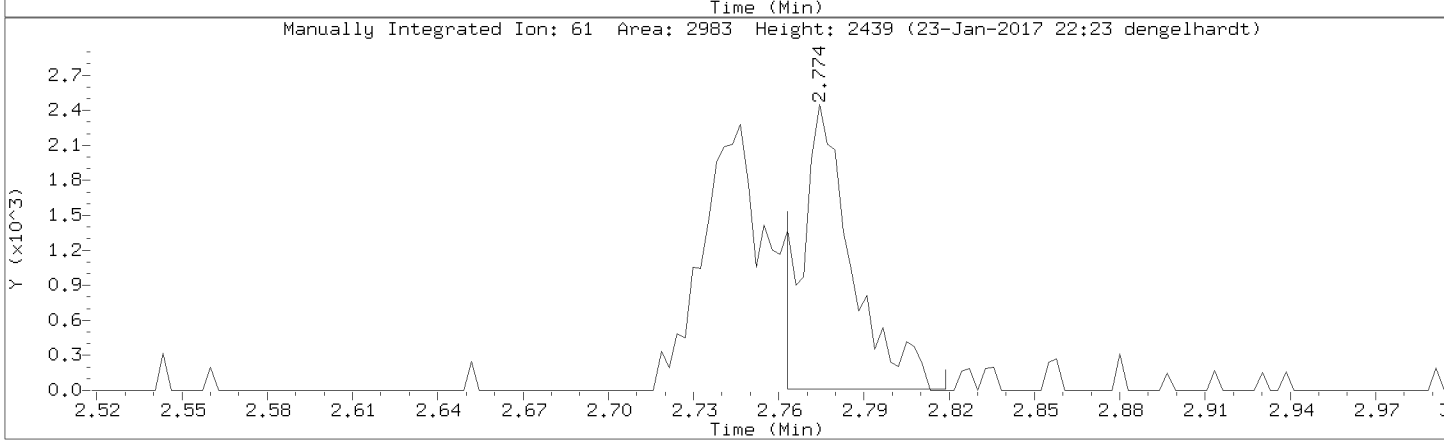
Lab Sample ID: 8260-CAL2

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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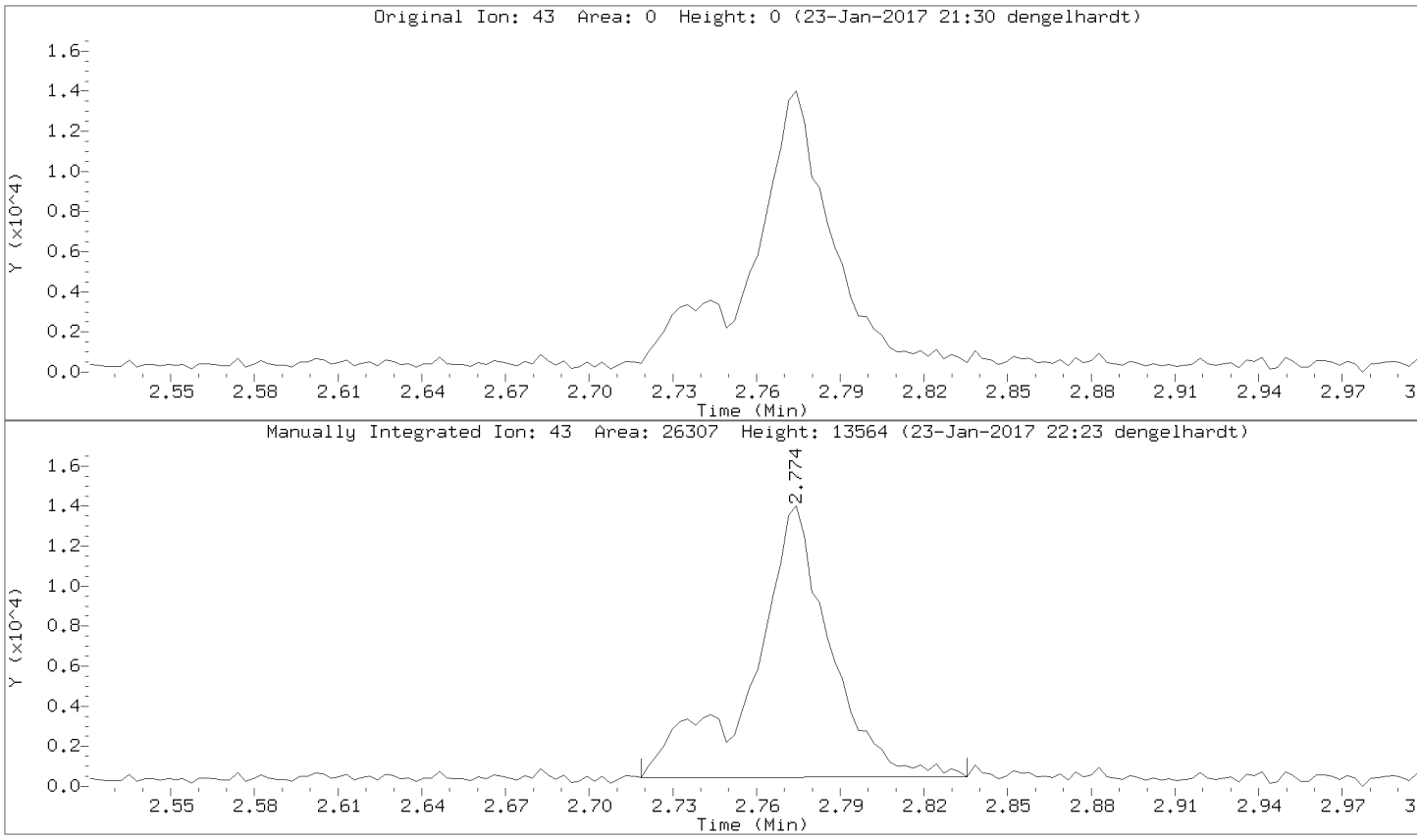

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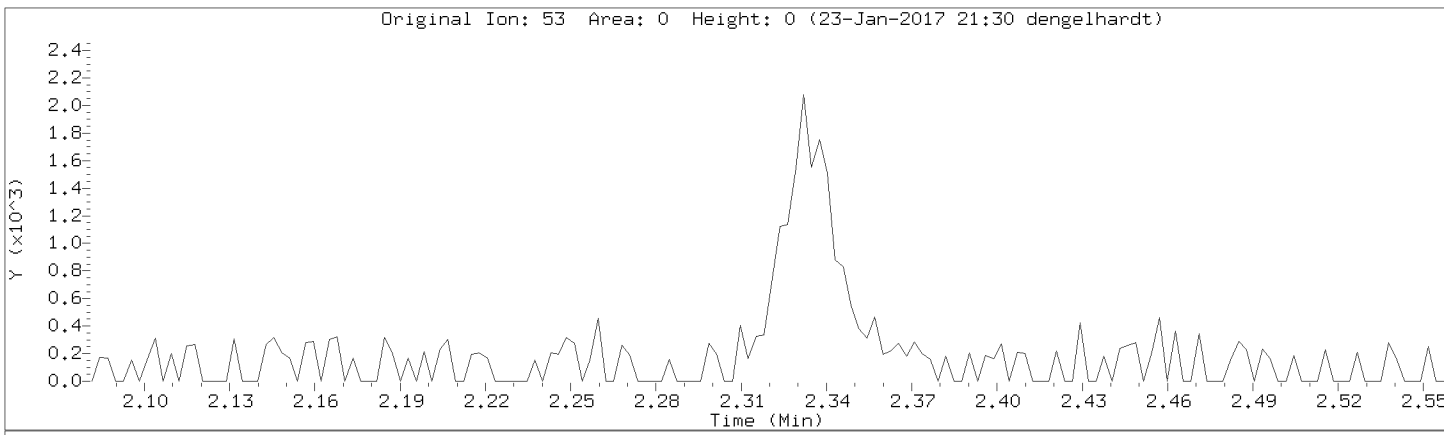
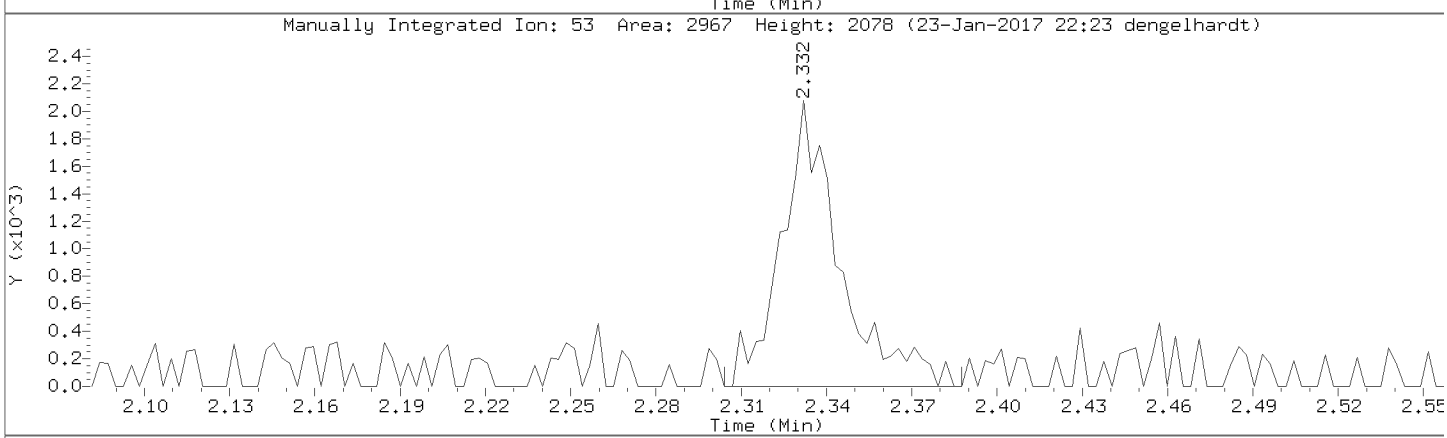
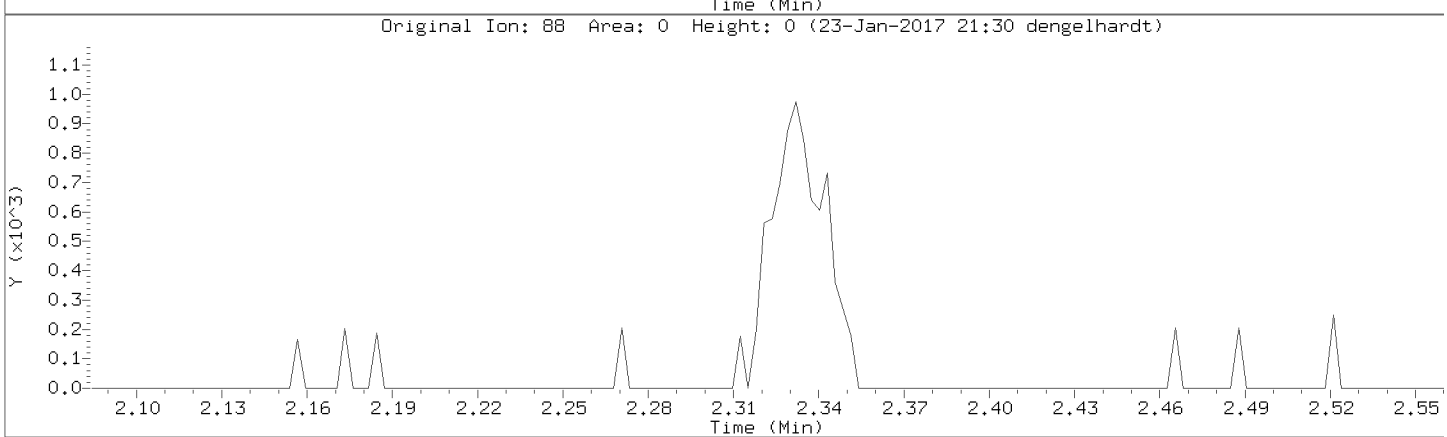
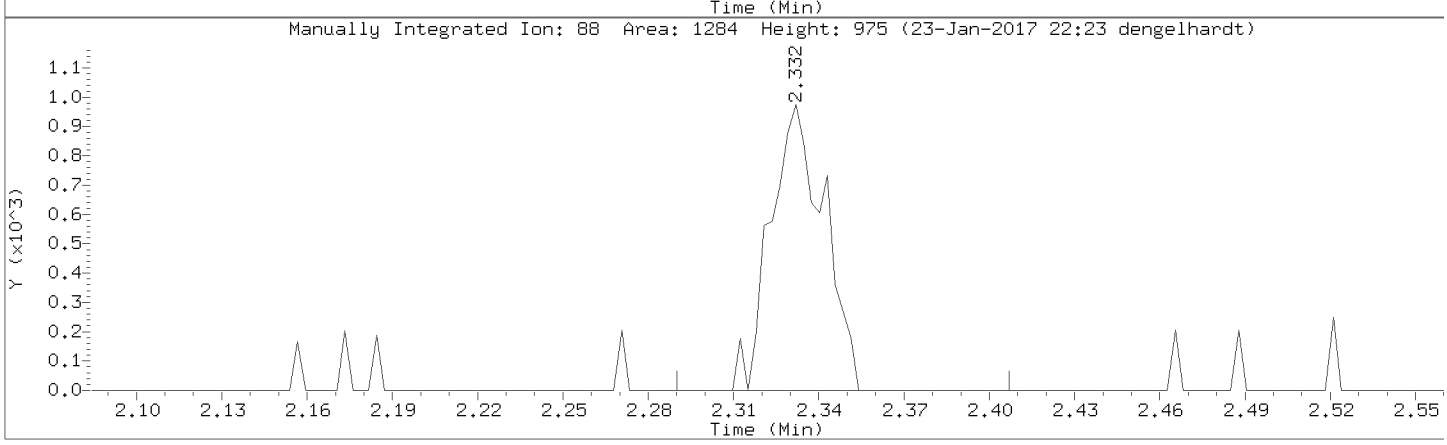
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8









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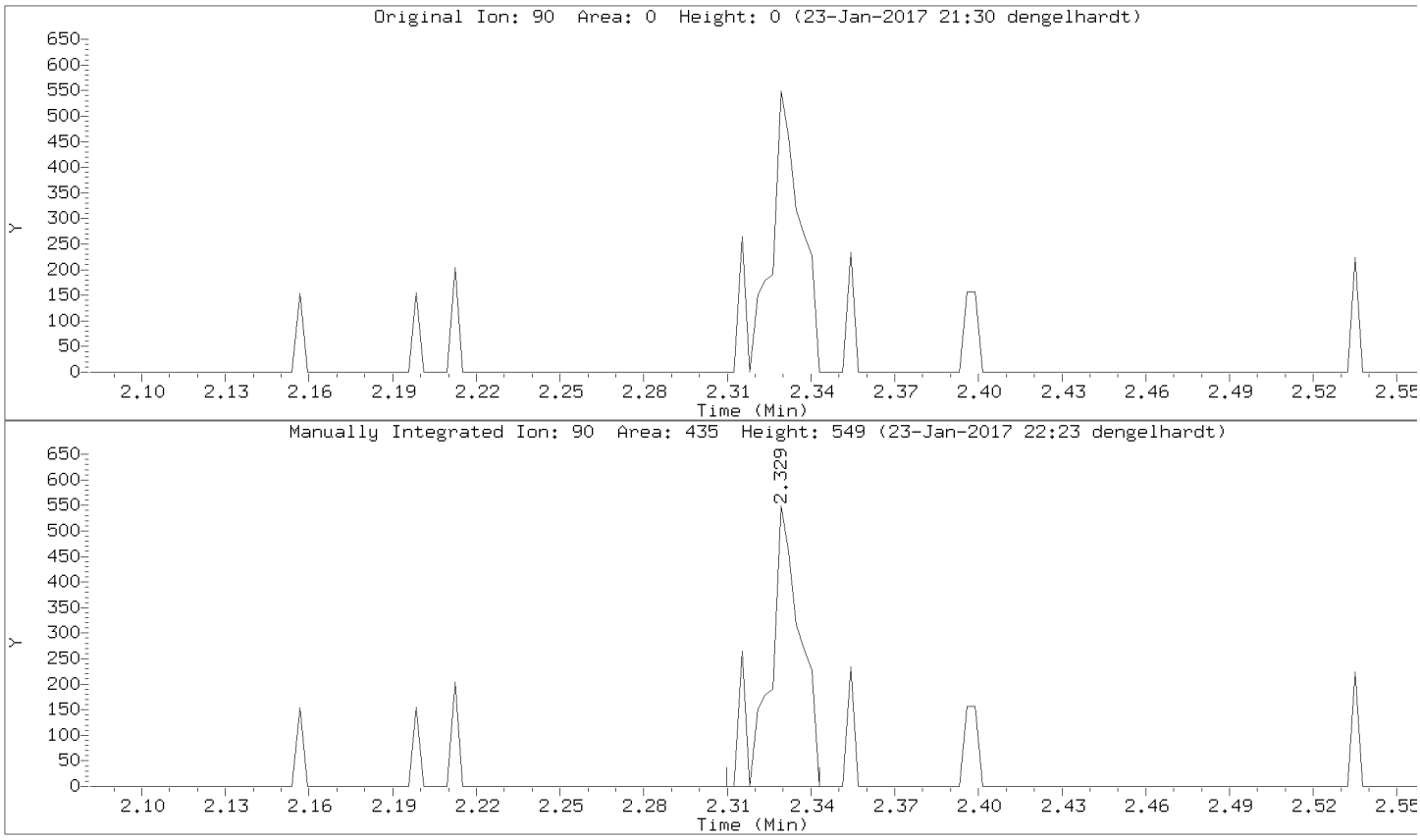
Lab Sample ID: 8260-CAL2



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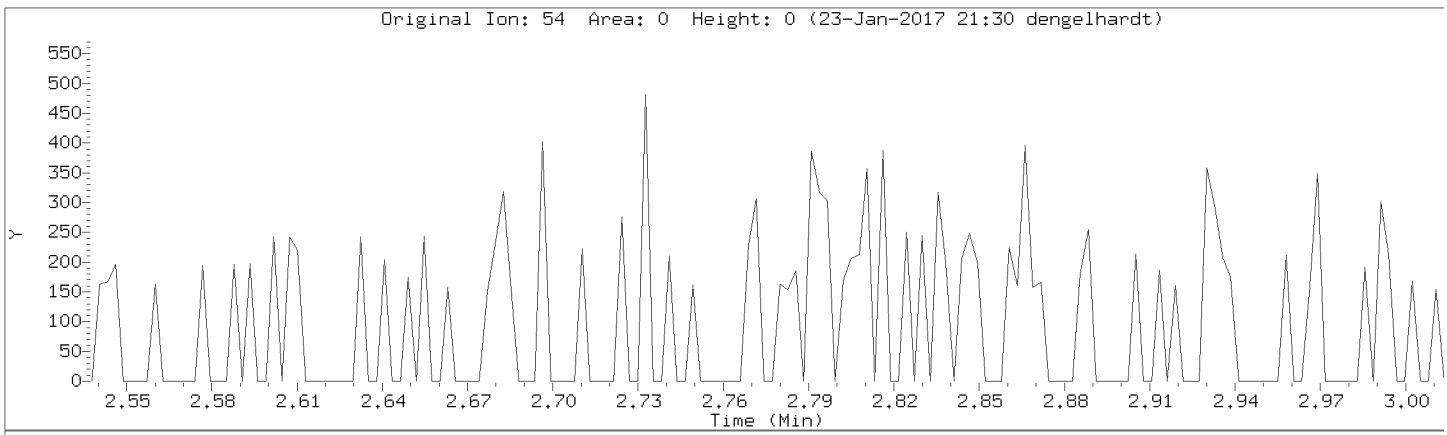
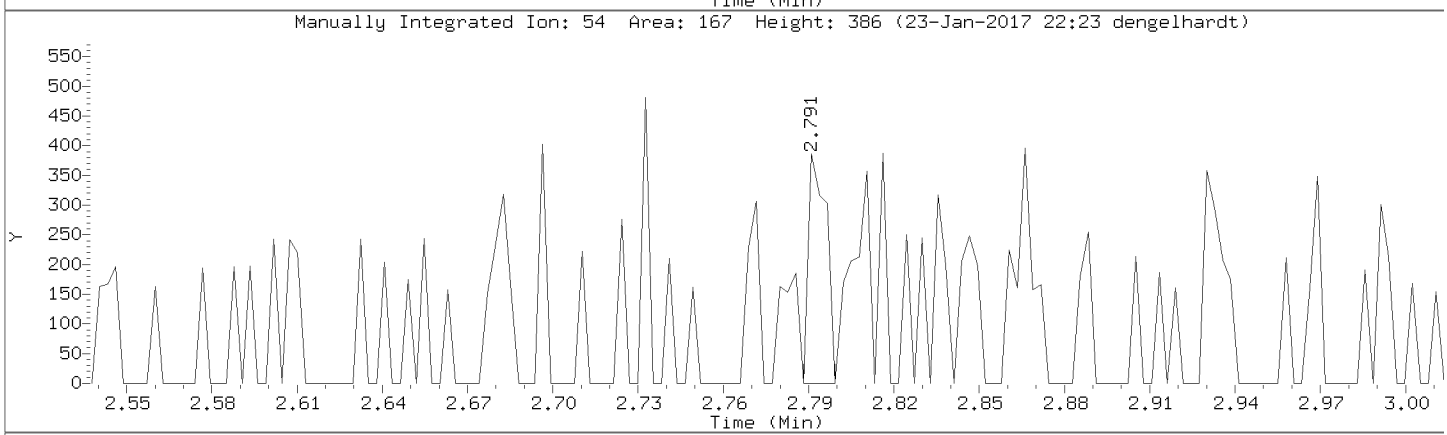
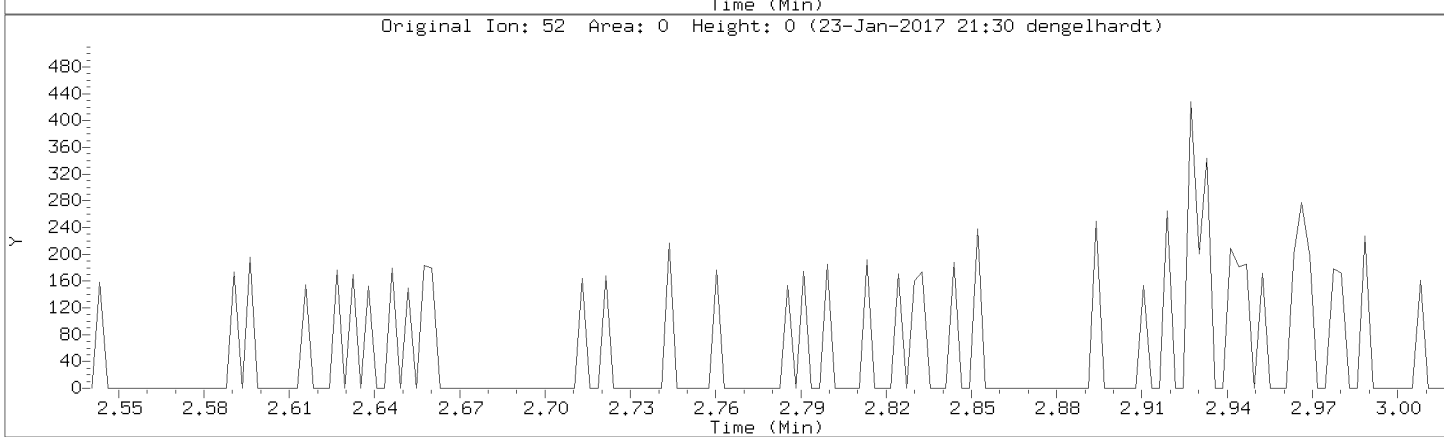
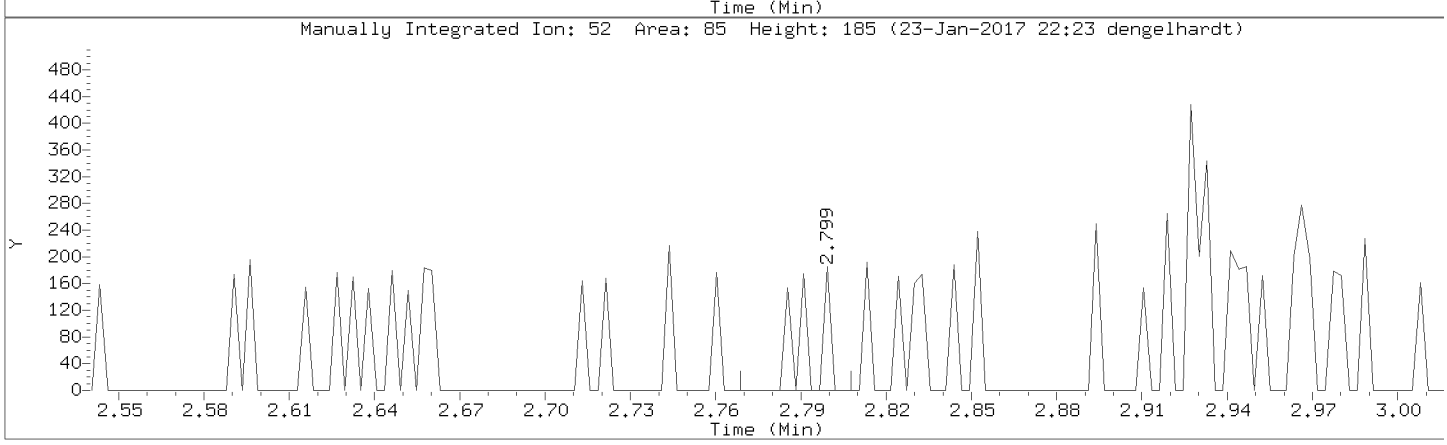
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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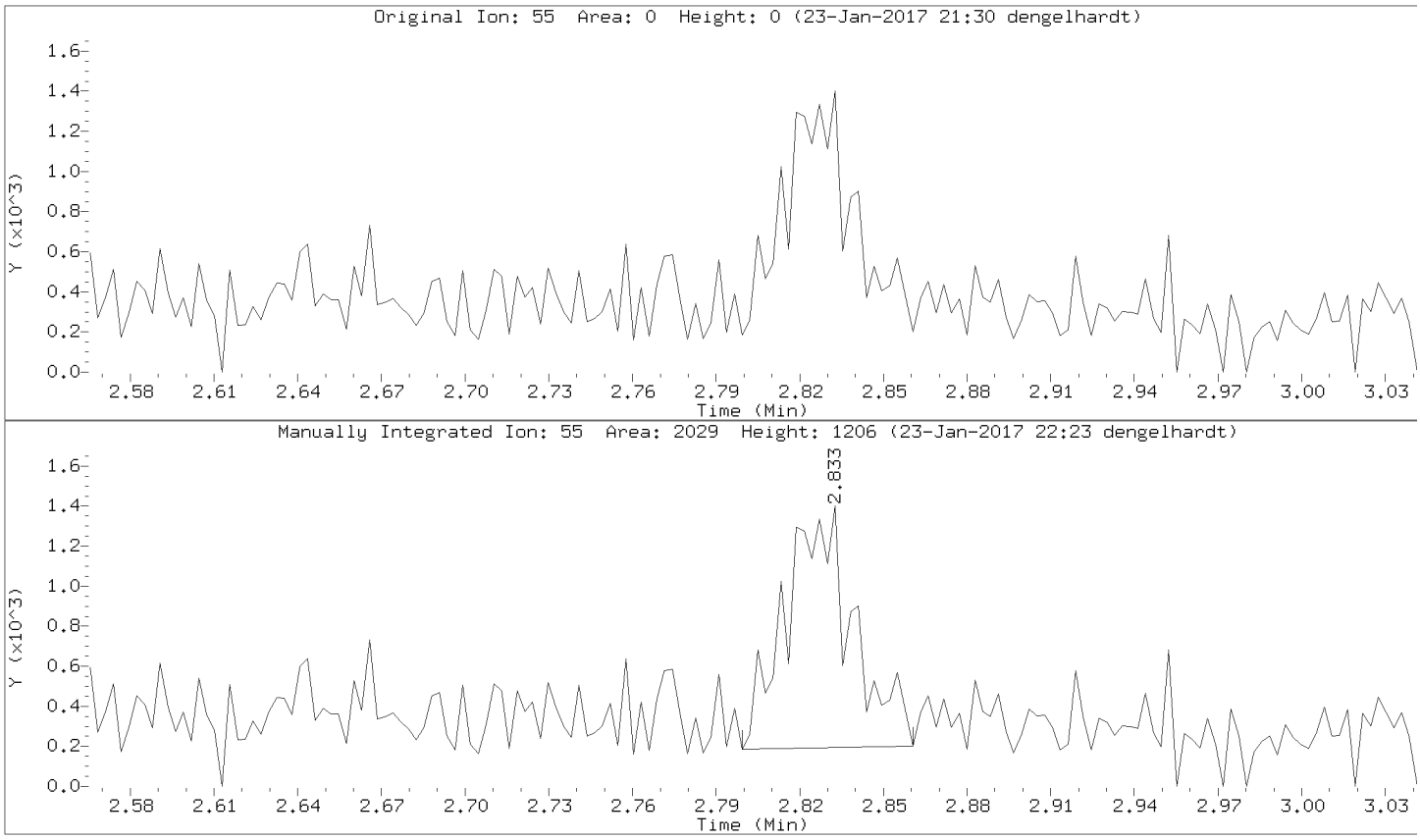
Lab Sample ID: 8260-CAL2



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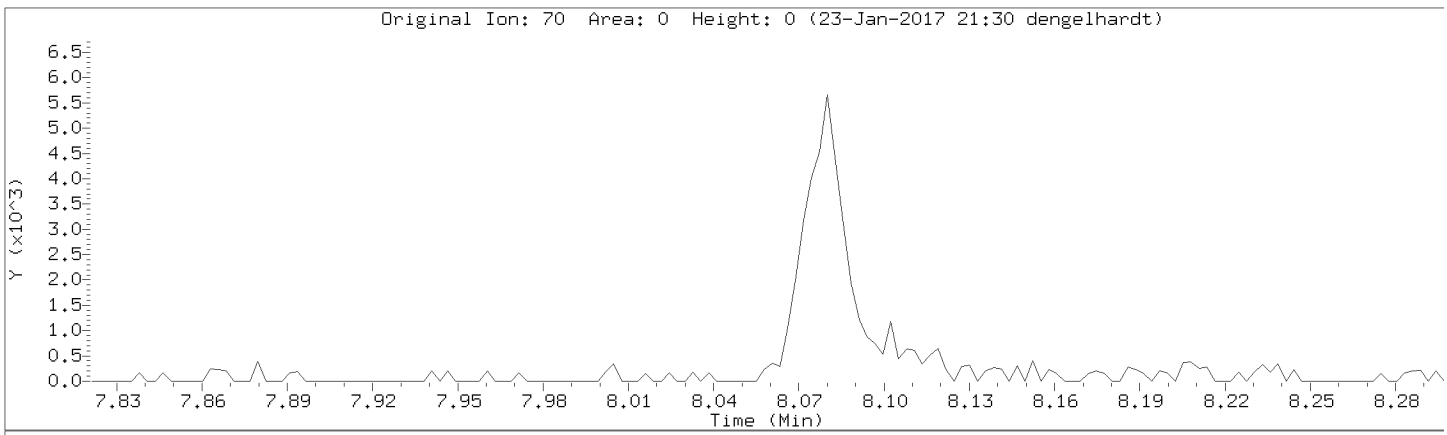
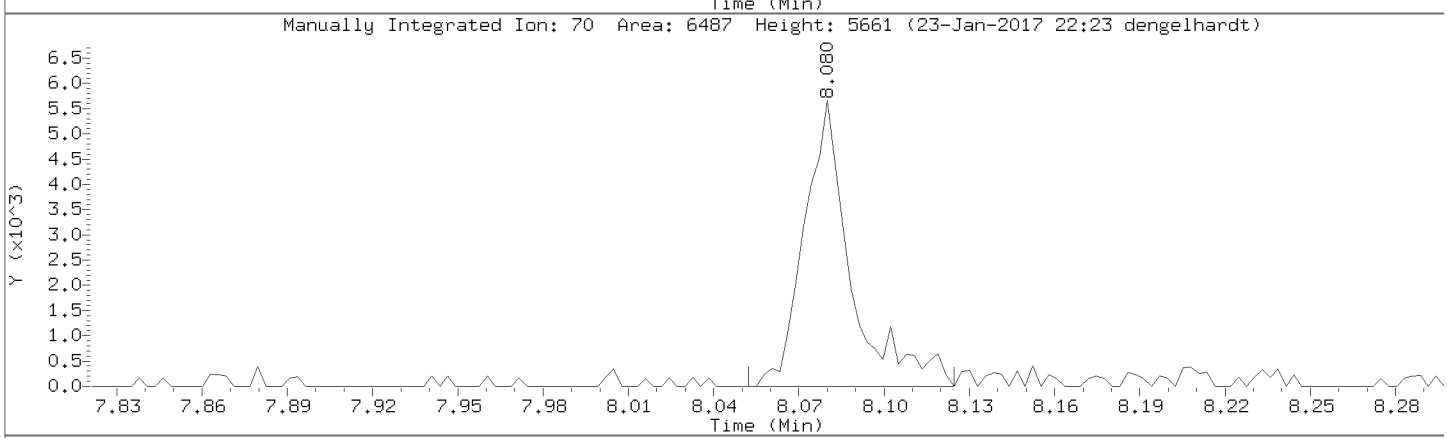
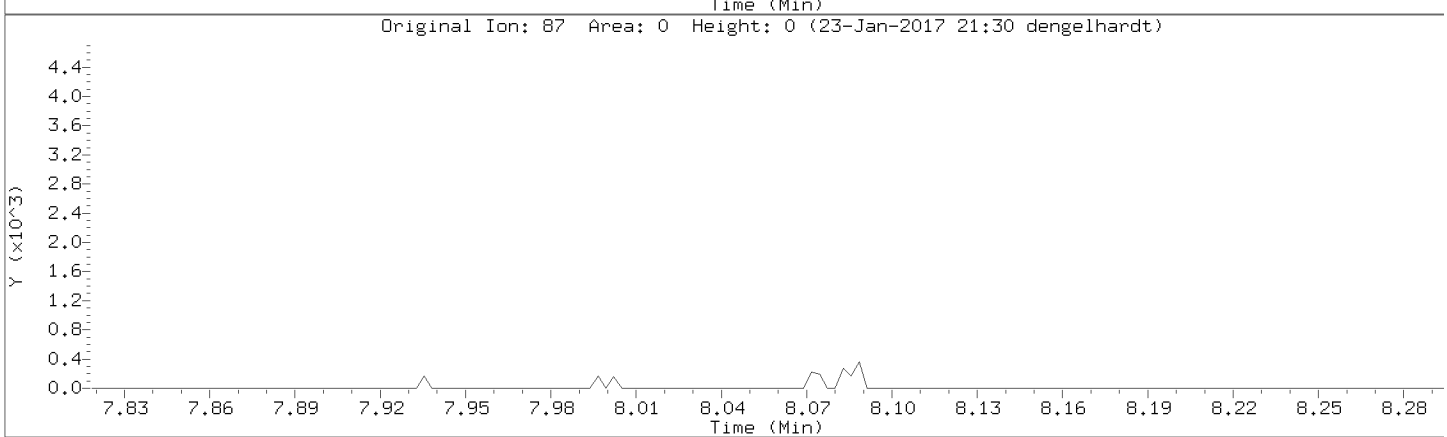
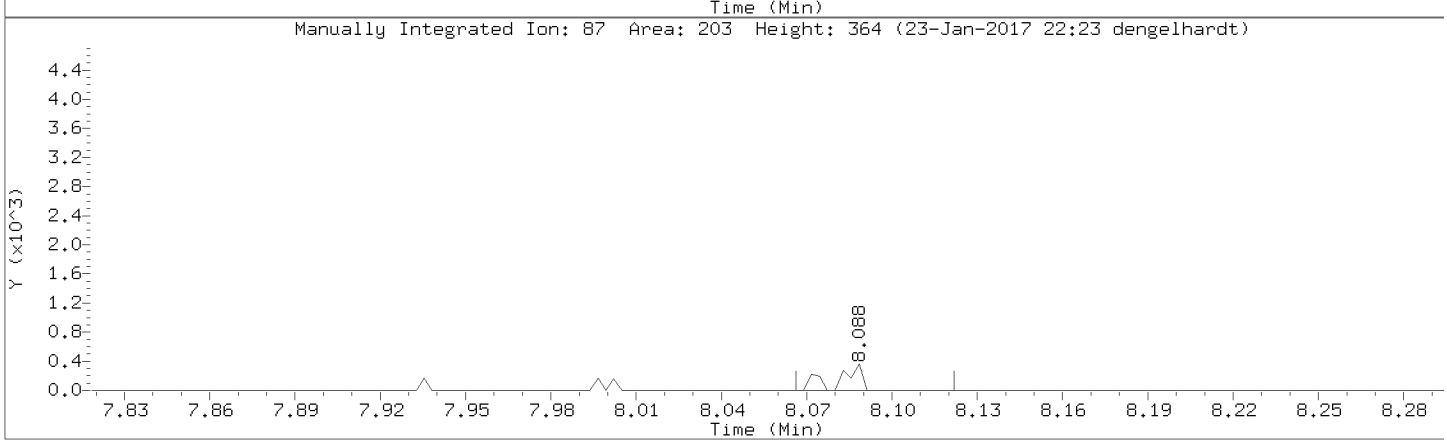
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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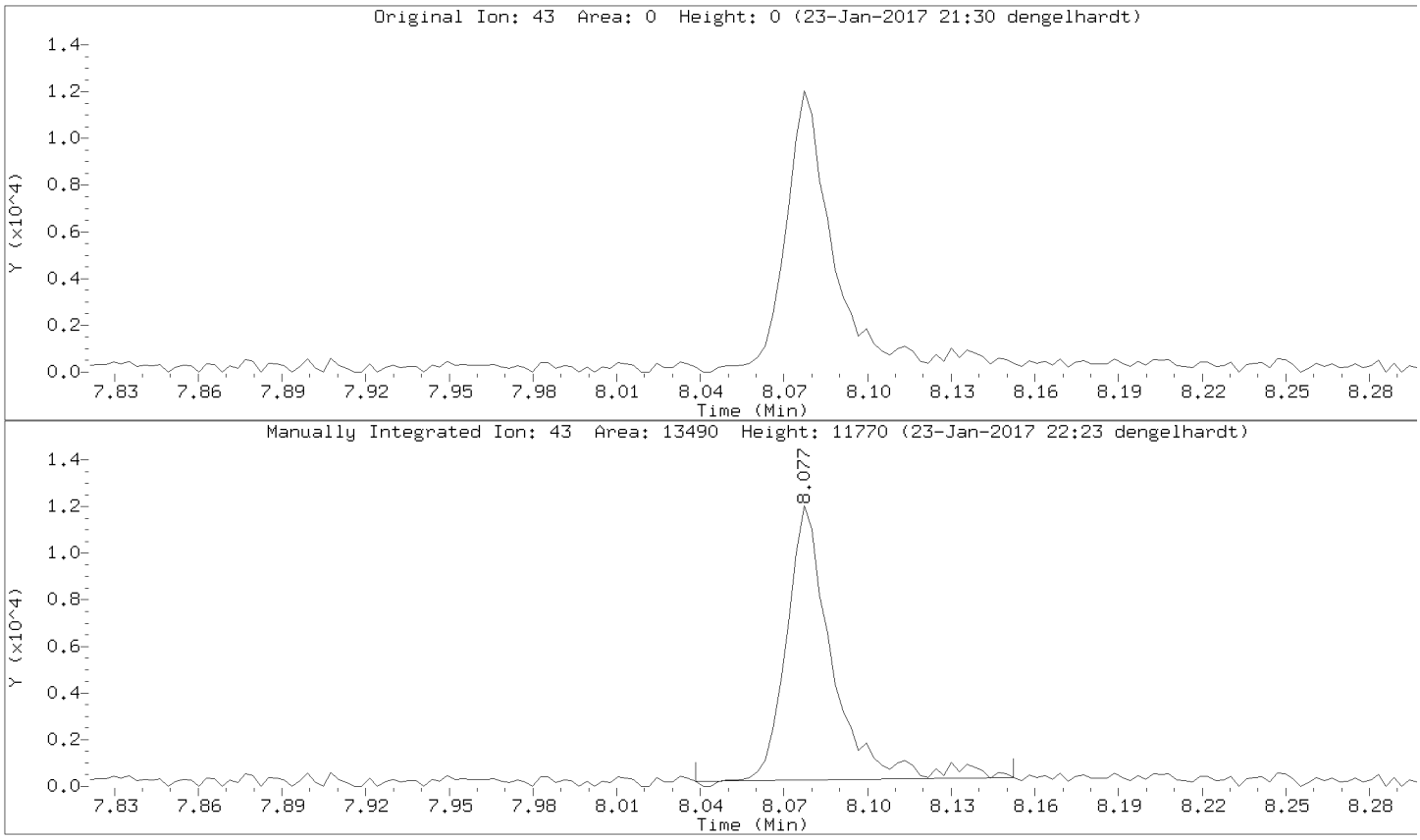
Lab Sample ID: 8260-CAL2



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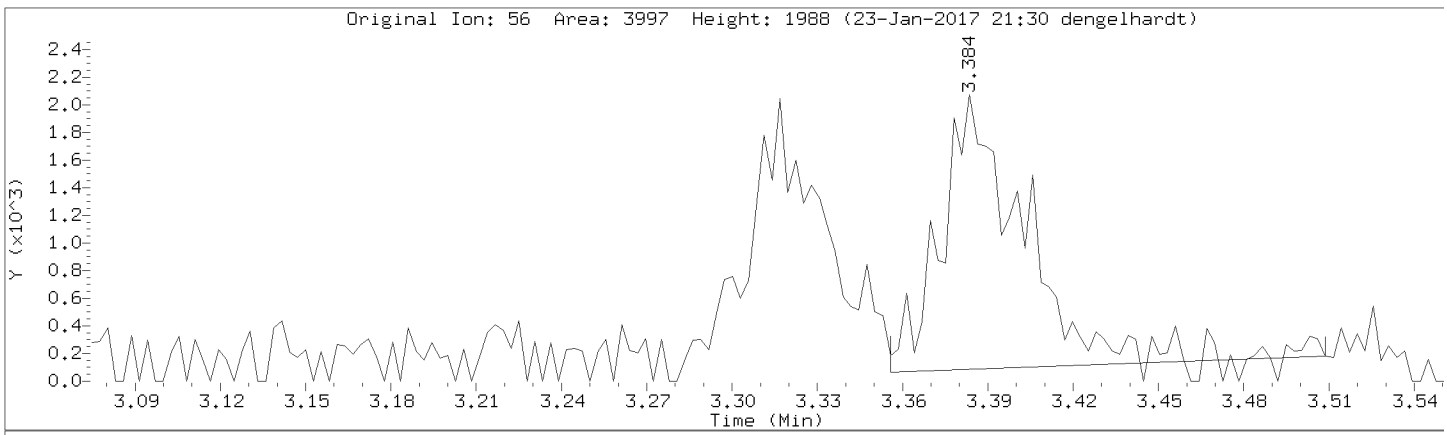
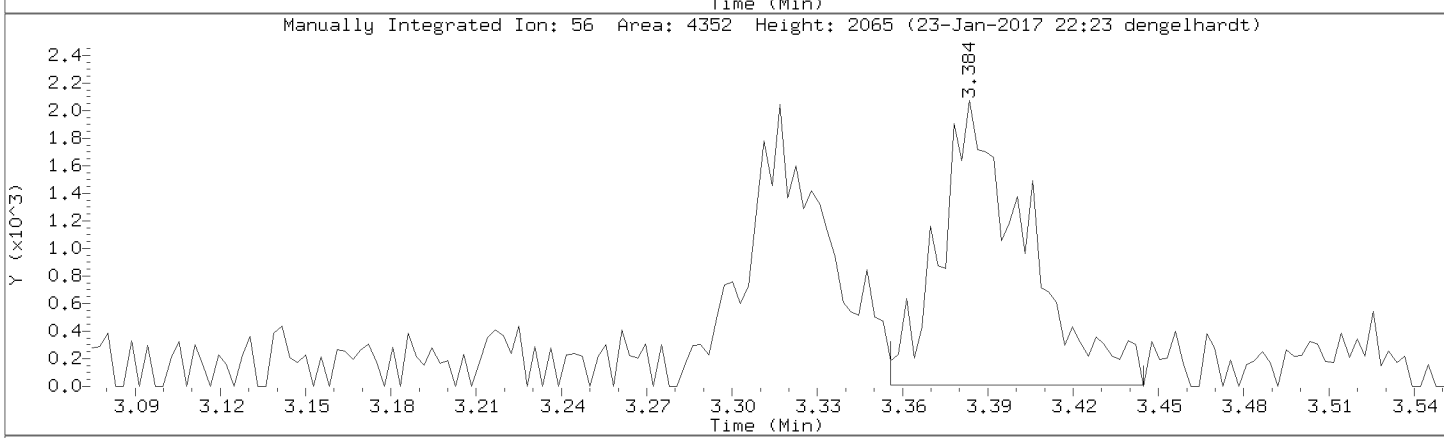
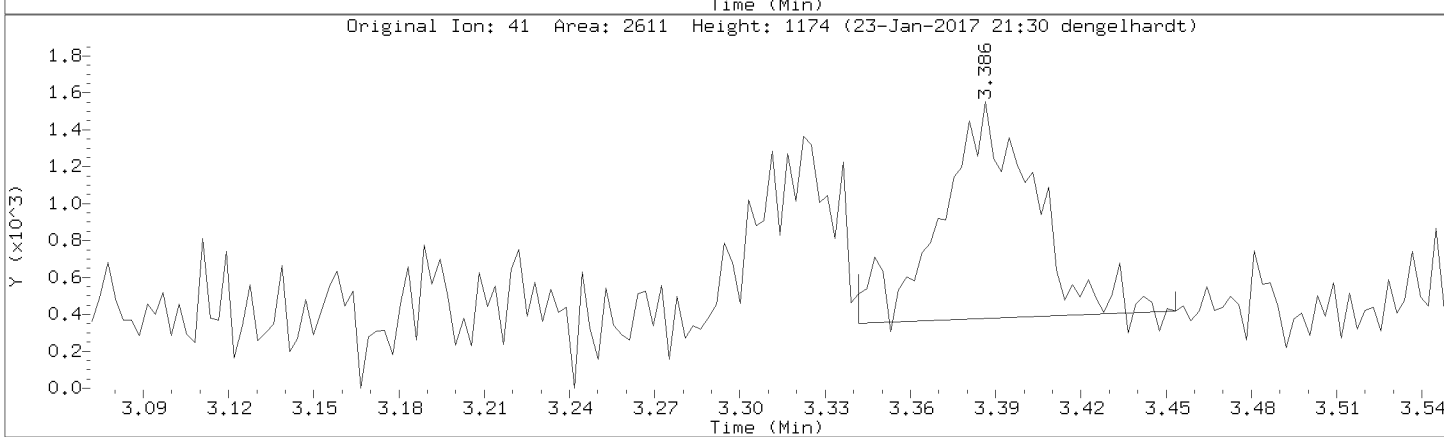
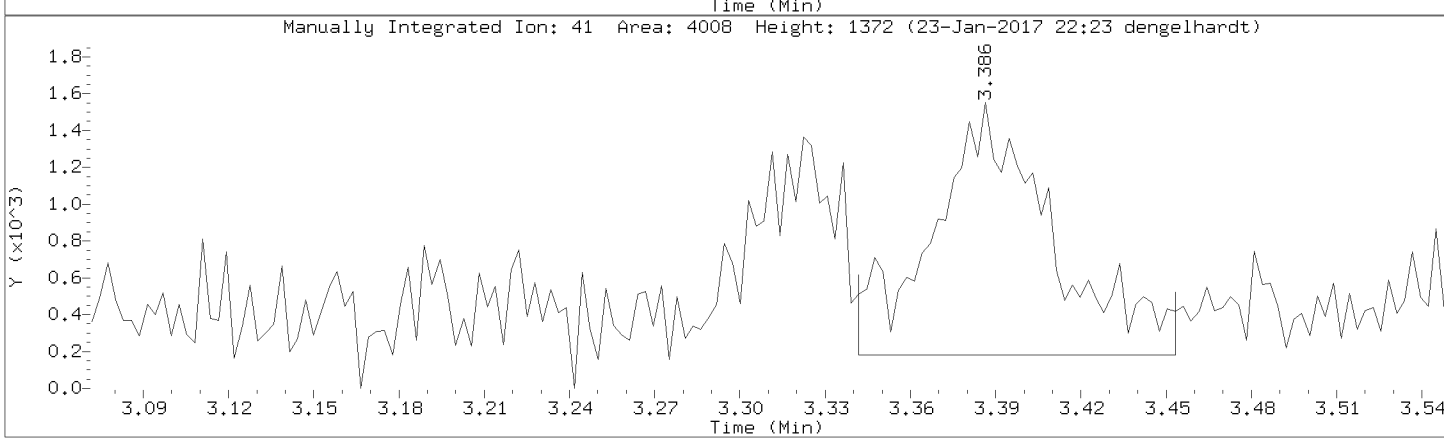
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL2

Compound: n-butyl chloride Review Code: NI
CAS Number: 109-69-3









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Inj Date : 22-JAN-2017 23:16
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal3,140428:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 56 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.217)	3533	2.00000	3.05(M)	NI
2 Chloromethane	50	0.987	0.990	(0.243)	5441	2.00000	1.98	
3 Vinyl Chloride	62	1.007	1.007	(0.247)	4749	2.00000	2.05	
4 Bromomethane	94	1.157	1.149	(0.284)	2396	2.00000	1.57(Q)	
5 Chloroethane	64	1.196	1.193	(0.294)	2413	2.00000	1.47	
6 Trichlorofluoromethane	101	1.305	1.305	(0.320)	5125	2.00000	2.04(M)	LT
7 Diethyl ether	74	1.430	1.427	(0.351)	2796	2.00000	1.66(Q)	
8 1,2-dichlorotrifluoroethane	67	1.447	1.444	(0.355)	6030	2.00000	1.44	
9 Acrolein	56	1.497	1.500	(0.368)	14067	40.0000	45.0	
10 1,1,2trichlorotrifluoroethane	101	1.544	1.547	(0.379)	4025	2.00000	1.91	
11 1,1-Dichloroethene	96	1.549	1.550	(0.381)	3788	2.00000	1.49(M)	WP
12 Acetone	43	1.561	1.564	(0.383)	12032	10.0000	9.39	
13 Iodomethane	142	1.641	1.636	(0.403)	2045	4.00000	3.58	
14 Carbon Disulfide	76	1.683	1.683	(0.413)	11035	2.00000	1.62(M)	WP
15 Methyl Acetate	43	1.730	1.728	(0.425)	5249	2.00000	1.03(M)	LT
16 Acetonitrile	39	1.747	1.742	(0.429)	5931	2.00000	1.53(M)	LT
17 allyl chloride	41	1.744	1.742	(0.428)	8813	4.00000	3.20(M)	LT
18 Methylene Chloride	84	1.822	1.817	(0.447)	5974	2.00000	1.49(QM)	LT
19 tert-Butyl Alcohol	59	1.856	1.861	(0.456)	1241	4.00000	2.97(Q)	
20 Acrylonitrile	53	1.950	1.950	(0.479)	10202	8.00000	6.83	
21 Methyl-tert-butyl ether	73	1.970	1.973	(0.484)	12102	2.00000	1.84	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.486)	4236	2.00000	1.32	
23 n-Hexane	57	2.164	2.156	(0.531)	5725	2.00000	1.89(M)	LT

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.273	2.270	(0.558)	28526	8.00000	9.40	
25 1,1-Dichloroethane	63	2.281	2.279	(0.560)	6496	2.00000	1.70(M)	LT
26 Chloroprene	53	2.334	2.331	(0.573)	4902	2.00000	1.52(M)	NI
147 Ethyl acetate	88	2.765	2.774	(0.679)	1613	16.0000	12.9(Q)	
27 2-Butanone	72	2.740	2.732	(0.673)	2579	10.0000	10.1	
28 1,2-Dichloroethene (cis)	96	2.740	2.740	(0.673)	4571	2.00000	1.72	
29 2,2-Dichloropropane	77	2.743	2.746	(0.674)	3986	2.00000	1.45(M)	NI
30 Propionitrile	54	2.799	2.788	(0.687)	844	2.00000	1.35(QM)	NI
31 Methacrylonitrile	41	2.938	2.932	(0.721)	3939	2.00000	1.46(M)	GT
32 Bromochloromethane	49	2.974	2.971	(0.730)	3549	2.00000	1.85	
33 Tetrahydrofuran	42	2.996	2.985	(0.736)	1965	2.00000	0.681(M)	LT
34 Chloroform	83	3.074	3.077	(0.755)	6883	2.00000	1.53	
$ 35 Dibromofluoromethane (S)	113	3.249	3.252	(0.798)	66523	50.0000	50.7	
36 1,1,1-Trichloroethane	97	3.247	3.247	(0.797)	5872	2.00000	1.64	
37 cyclohexane	56	3.316	3.325	(0.814)	6829	2.00000	1.49(M)	LT
146 n-butyl chloride	56	3.391	3.325	(0.833)	7467	2.00000	1.44(M)	LT
38 Carbon Tetrachloride	117	3.419	3.419	(0.839)	5011	2.00000	1.77	
39 1,1-Dichloropropene	75	3.425	3.430	(0.841)	5049	2.00000	1.86	
40 Benzene	78	3.664	3.667	(0.900)	13864	2.00000	1.66(M)	LT
41 1,2-Dichloroethane	62	3.753	3.756	(0.921)	5375	2.00000	1.82(M)	NI
42 2,2,4-Trimethylpentane	57	3.848	3.839	(0.945)	9821	2.00000	1.62	
43 Isobutyl alcohol	43	3.789	3.606	(0.930)	32250	2.00000	1.60(M)	NI
148 Isopropyl acetate	61	3.784	3.784	(0.929)	6609	8.00000	6.86	
* 44 Fluorobenzene	96	4.073	4.070	(1.000)	232033	50.0000		
45 Trichloroethene	95	4.538	4.532	(1.114)	3109	2.00000	1.49	
46 Methylcyclohexane	55	4.796	4.799	(1.178)	4937	2.00000	1.14(M)	WP
47 1,2-Dichloropropane	63	4.852	4.849	(1.191)	3856	2.00000	1.79(M)	NI
48 Dibromomethane	93	4.949	4.947	(1.215)	2811	2.00000	1.66	
49 Methyl methacrylate	69	4.972	4.966	(1.221)	3764	2.00000	2.23(Q)	
50 1,4-Dioxane	88	4.958	4.952	(1.217)	1174	40.0000	45.6(QM)	NI
51 Bromodichloromethane	83	5.183	5.175	(1.273)	5158	2.00000	1.69(M)	NI
52 2-Chloroethyl vinyl ether	63	5.539	5.537	(0.752)	3129	4.00000	3.63	
53 cis-1,3-Dichloropropene	75	5.678	5.678	(0.770)	5662	2.00000	1.99	
54 4-Methyl-2-Pentanone	43	5.862	5.854	(0.795)	21151	10.0000	9.33	
$ 55 Toluene-d8	98	5.951	5.951	(0.807)	244720	50.0000	50.1	
56 Toluene	91	6.023	6.023	(0.817)	15242	2.00000	1.50	
57 trans-1,3-Dichloropropene	75	6.327	6.318	(0.858)	4876	2.00000	1.79	
58 Ethyl Methacrylate	69	6.413	6.407	(0.870)	5326	2.00000	1.52(M)	NI
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	2986	2.00000	1.65	
60 Tetrachloroethene	166	6.566	6.566	(0.891)	4391	2.00000	1.72	
61 1,3-Dichloropropane	76	6.669	6.666	(0.905)	5377	2.00000	1.64	
62 2-Hexanone	43	6.752	6.741	(0.916)	16339	10.0000	10.4	
63 Dibromochloromethane	129	6.864	6.864	(0.931)	3864	2.00000	1.69	
64 1,2-Dibromoethane	107	6.961	6.956	(0.945)	3699	2.00000	1.88	
* 65 Chlorobenzene-d5	117	7.370	7.367	(1.000)	198759	50.0000		
66 Chlorobenzene	112	7.395	7.392	(1.003)	10566	2.00000	1.73	
67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	3995	2.00000	1.88	
68 Ethylbenzene	106	7.490	7.487	(1.016)	5819	2.00000	1.77(Q)	
69 m&p-Xylene	106	7.598	7.598	(1.031)	14273	4.00000	3.60	
70 o-Xylene	106	7.901	7.899	(1.072)	7331	2.00000	1.90	
71 Styrene	104	7.924	7.918	(1.075)	11965	2.00000	1.95	
72 Bromoform	173	8.054	8.057	(0.883)	2879	2.00000	1.43(M)	NI
73 Isopropylbenzene	105	8.185	8.182	(1.111)	16937	2.00000	1.68	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	92359	50.0000	49.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.077	8.071	(1.096)	13173	8.00000	8.22(M)	NI
75 Bromobenzene	77	8.405	8.405	(1.140)	6800	2.00000	1.53	
76 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	5390	2.00000	1.75(M)	NI
77 trans-1,4-Dichloro-2-butene	53	8.449	8.450	(1.146)	1299	2.00000	1.45(QM)	WP
78 1,2,3-Trichloropropane	110	8.461	8.458	(0.928)	1856	2.00000	1.95	
79 n-Propylbenzene	91	8.488	8.489	(0.931)	18193	2.00000	1.72	
80 2-Chlorotoluene	91	8.550	8.544	(0.937)	12484	2.00000	1.72	
81 1,3,5-Trimethylbenzene	105	8.622	8.622	(0.945)	15218	2.00000	1.82	
82 4-Chlorotoluene	126	8.639	8.633	(0.947)	4486	2.00000	1.68	
83 tert-Butylbenzene	119	8.836	8.834	(0.969)	14624	2.00000	1.50	
84 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	15267	2.00000	1.72	
85 sec-Butylbenzene	105	8.986	8.987	(0.985)	16888	2.00000	1.72	
86 1,3-Dichlorobenzene	146	9.070	9.067	(0.995)	9183	2.00000	1.80	
87 p-Isopropyltoluene	119	9.095	9.092	(0.997)	14556	2.00000	1.78	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	120919	50.0000		
89 1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	9810	2.00000	1.56	
90 1,2-Dichlorobenzene	146	9.368	9.368	(1.027)	9539	2.00000	1.90	
91 n-Butylbenzene	91	9.362	9.359	(1.027)	11456	2.00000	1.66	
92 1,2-Dibromo-3-chloropropane	155	9.877	9.874	(1.083)	1016	2.00000	1.52(Q)	
93 1,2,4-Trichlorobenzene	180	10.378	10.372	(1.138)	5419	2.00000	1.75	
94 Hexachlorobutadiene	225	10.453	10.453	(1.146)	2549	2.00000	2.06(M)	NI
95 Naphthalene	128	10.542	10.533	(1.156)	16995	2.00000	1.71	
96 1,2,3-Trichlorobenzene	180	10.670	10.664	(1.170)	5403	2.00000	1.81	
97 2,methyl-naphthalene	142	11.237	11.226	(1.232)	7292	2.00000	1.66	
98 1-Methylnaphthalene	142	11.354	11.349	(1.245)	6358	2.00000	1.58	

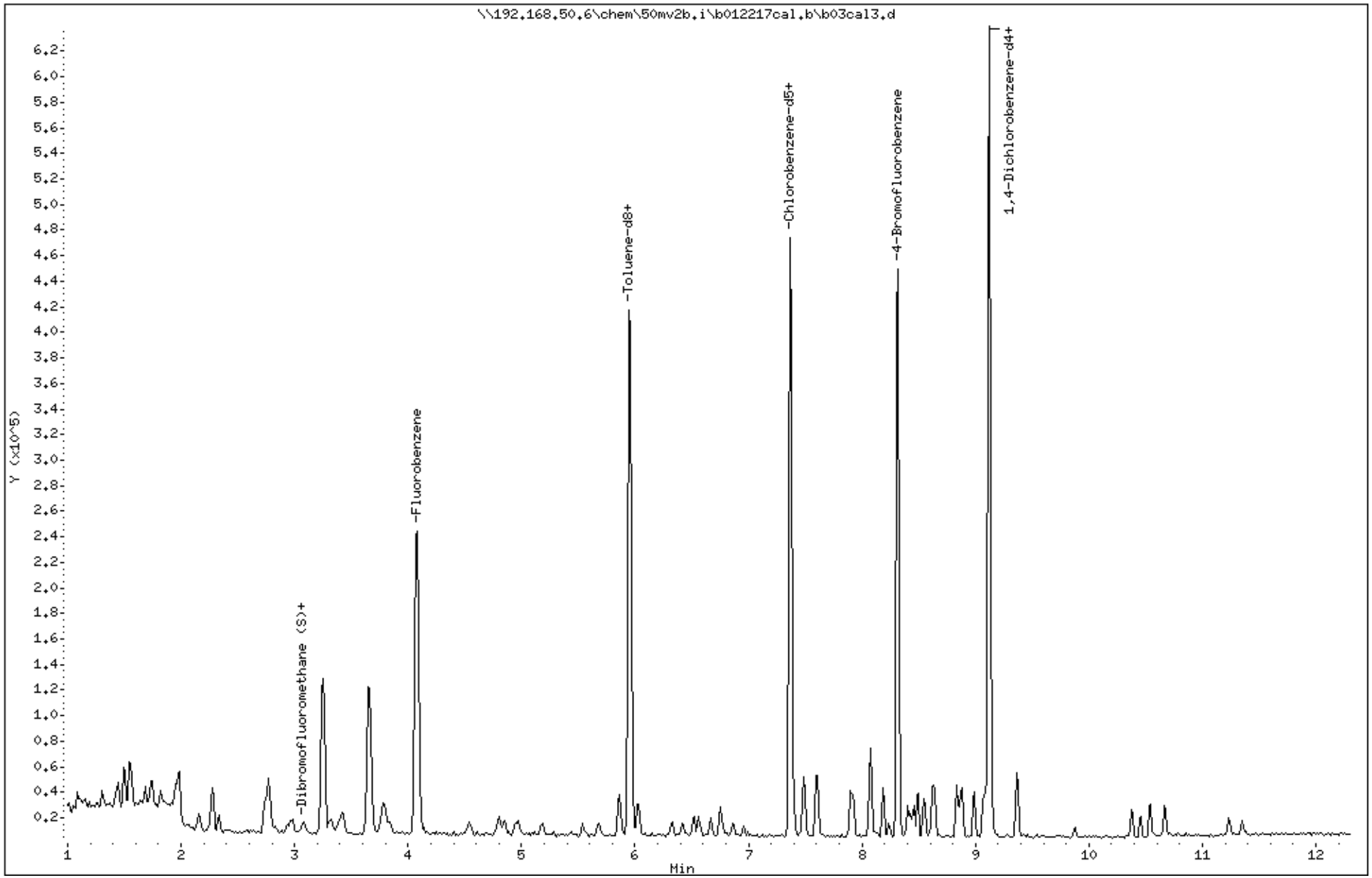
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
:
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
WP: Indicates that the wrong peak was chosen by the data system.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b03cal3.d
Date : 22-JAN-2017 23:16
Client ID: 8260-CAL3
Instrument: 50mv2b.i
Sample Info: 8260-CAL3,140428:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



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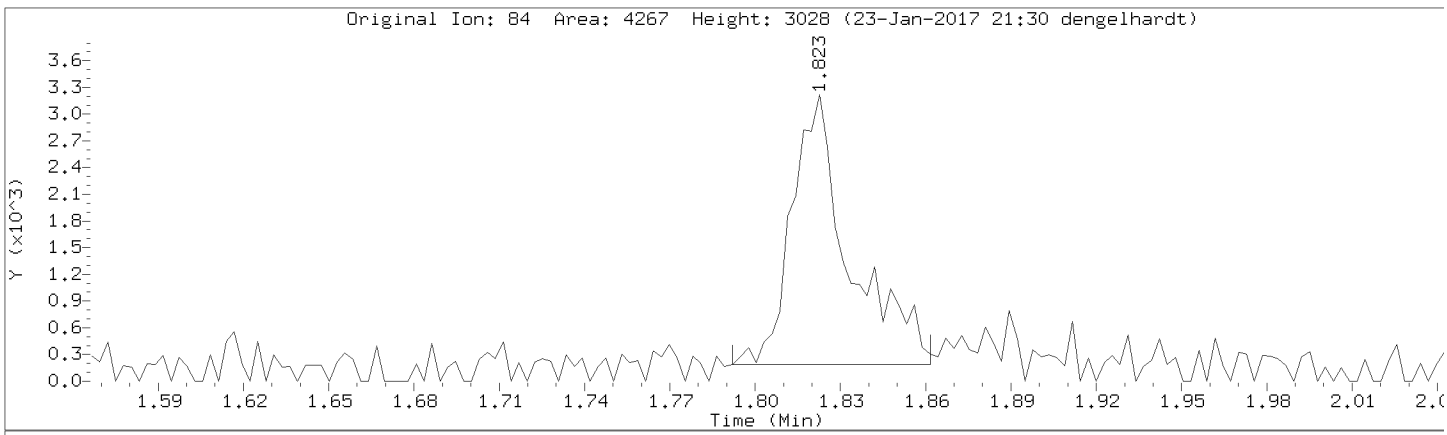
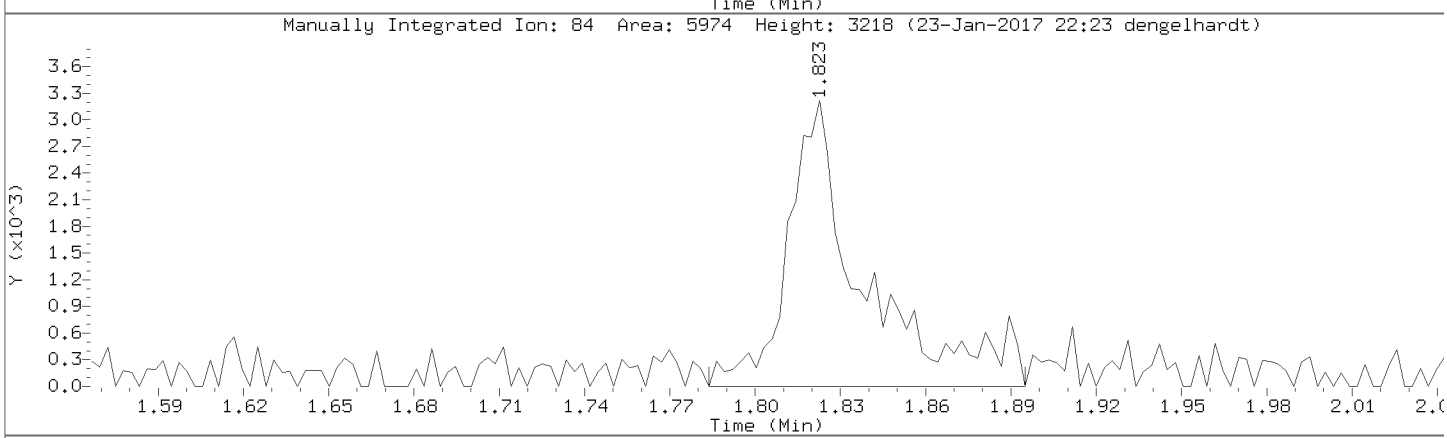
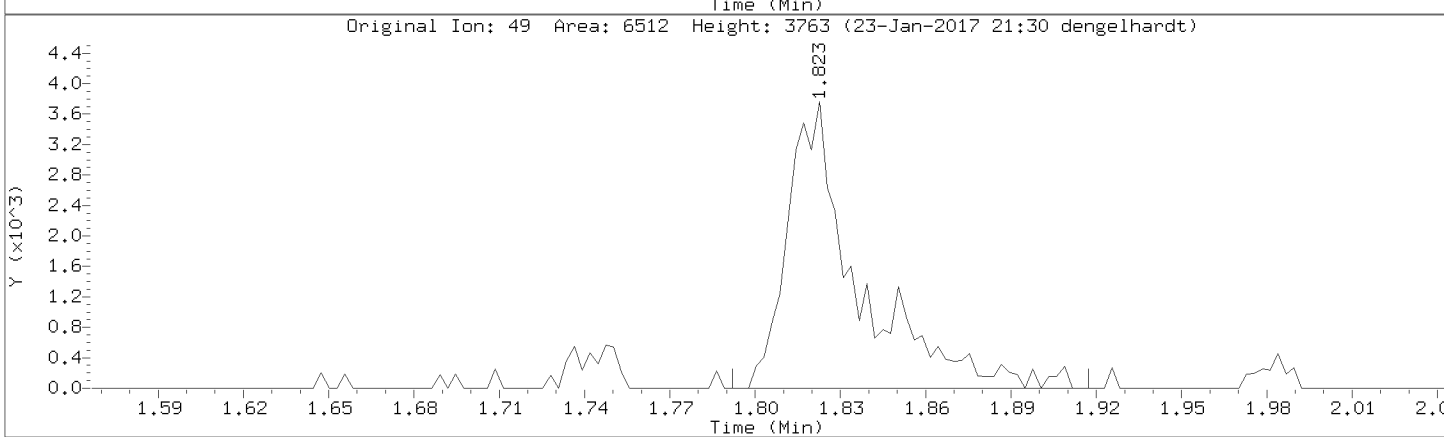
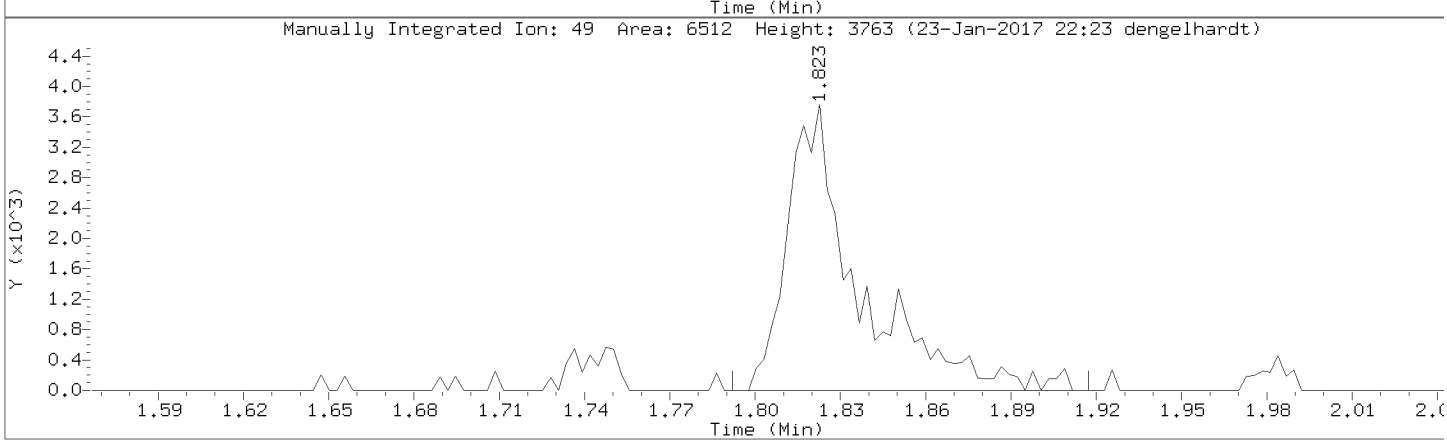
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Methylene Chloride Review Code: LT
CAS Number: 75-09-2









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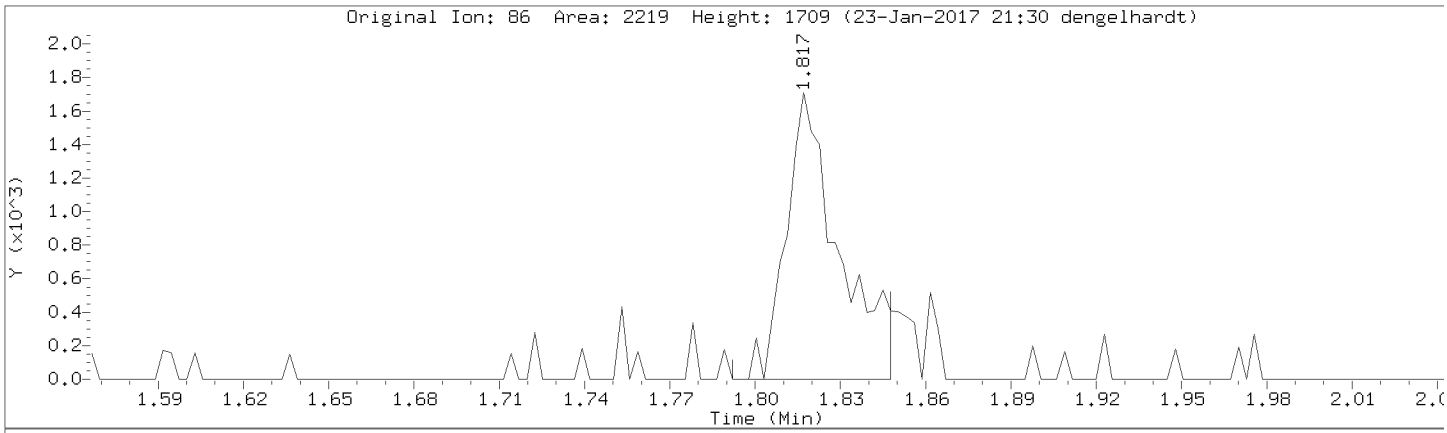
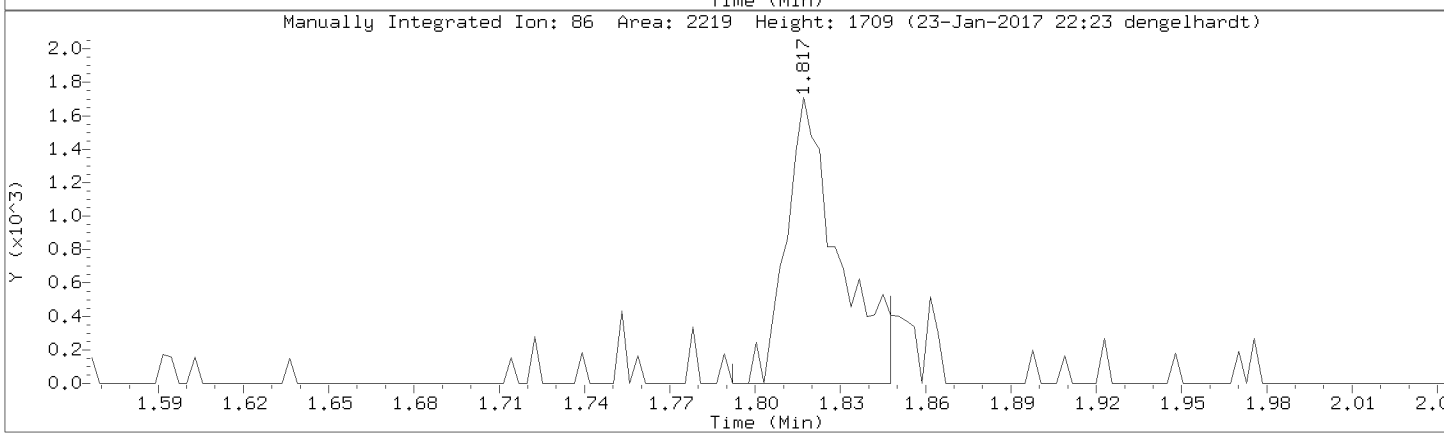
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3





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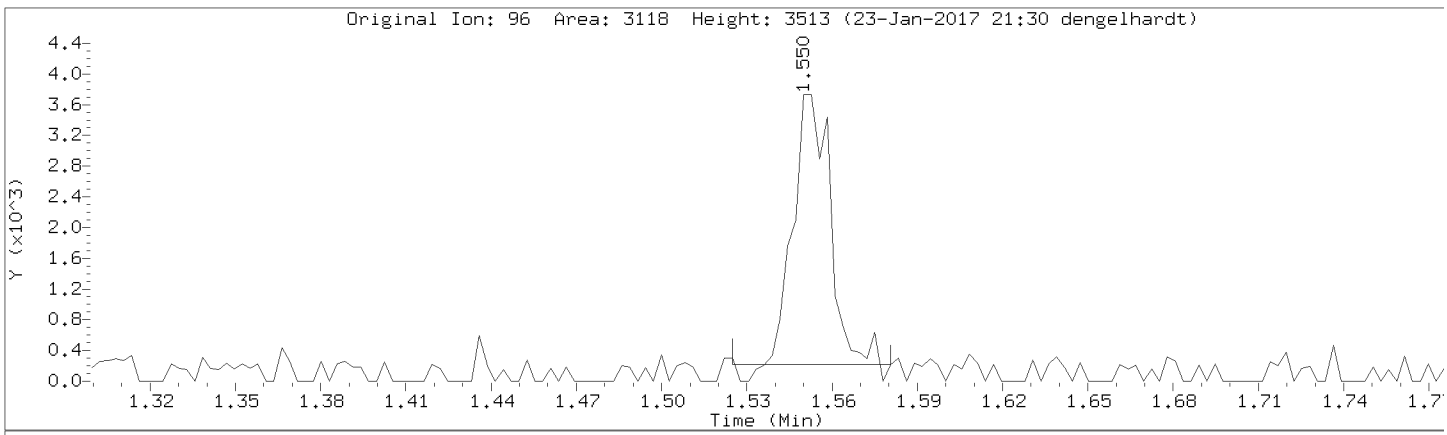
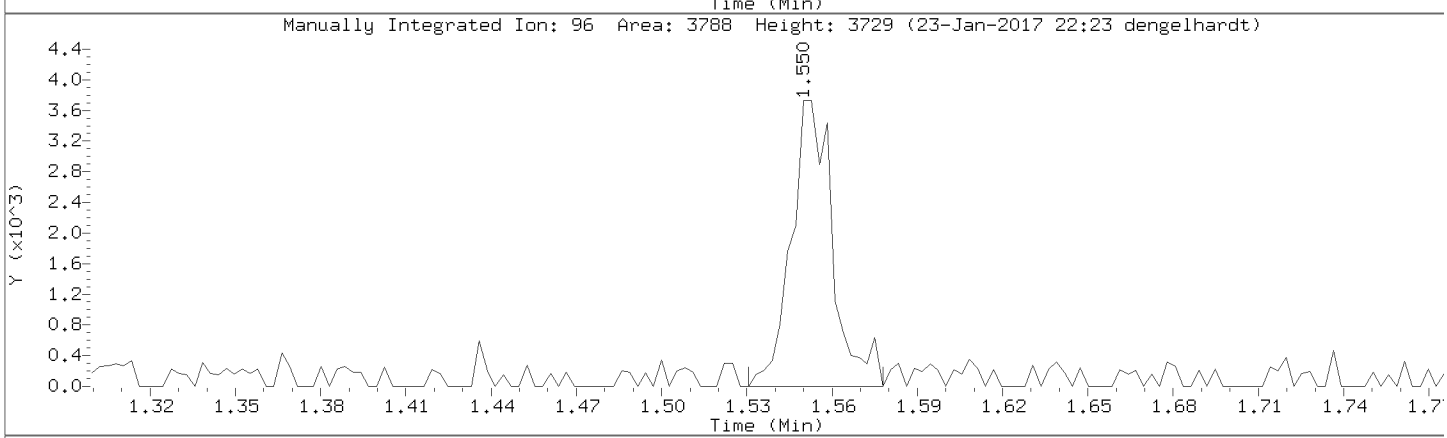
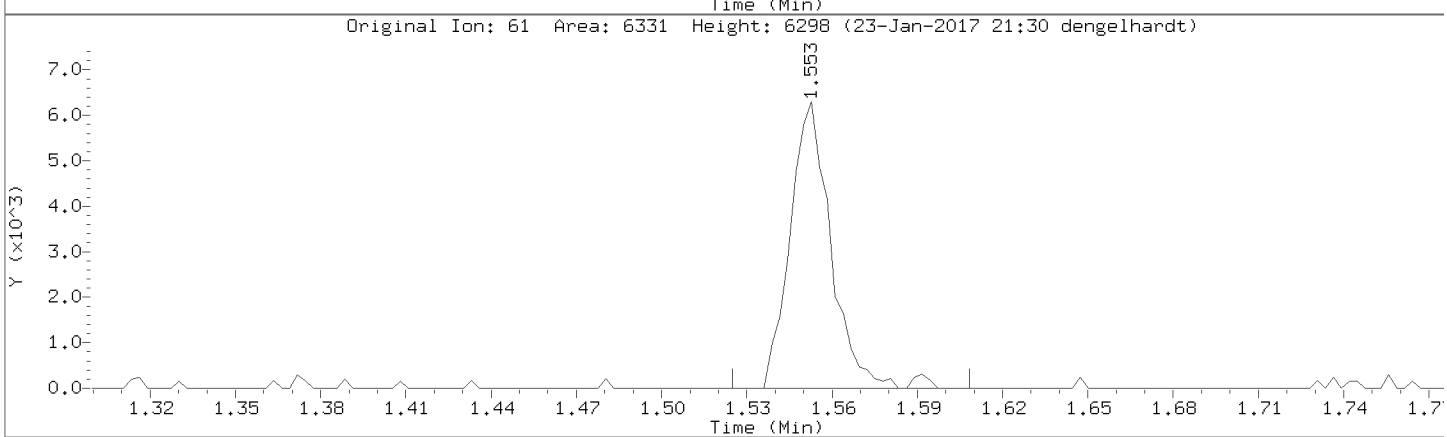
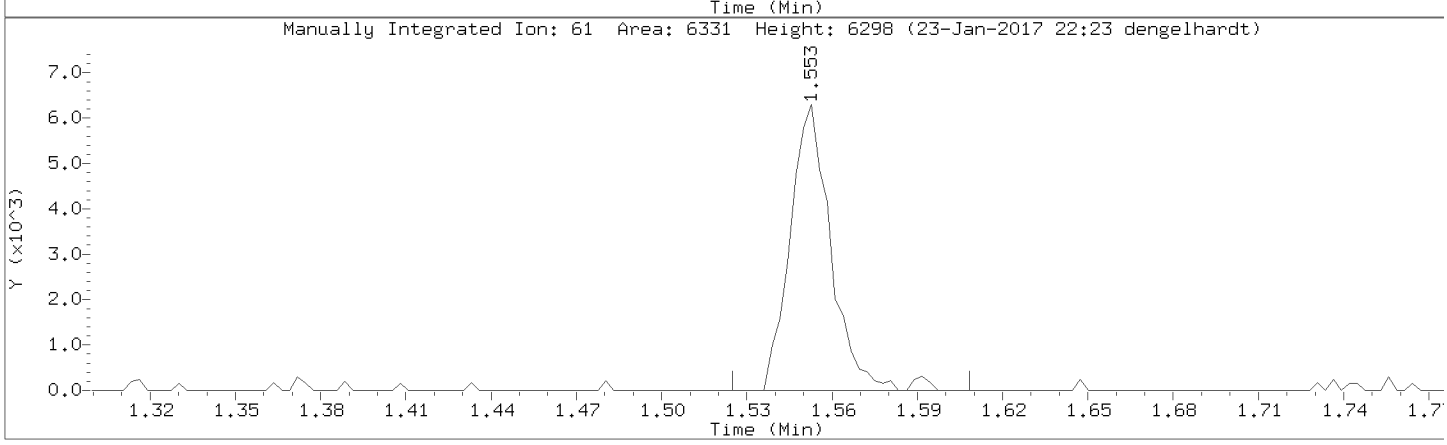
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,1-Dichloroethene Review Code: WP
CAS Number: 75-35-4









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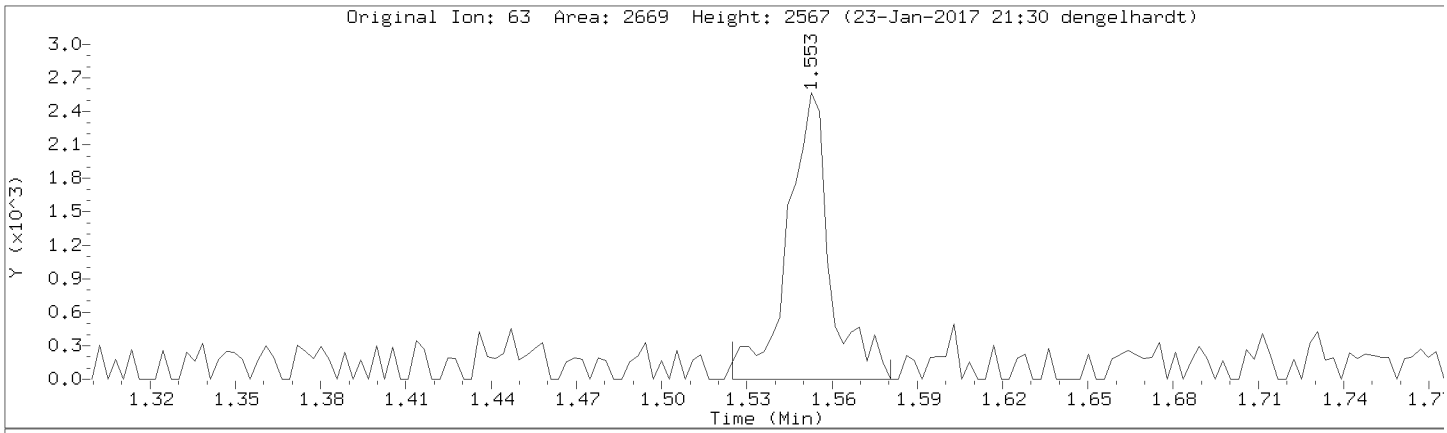
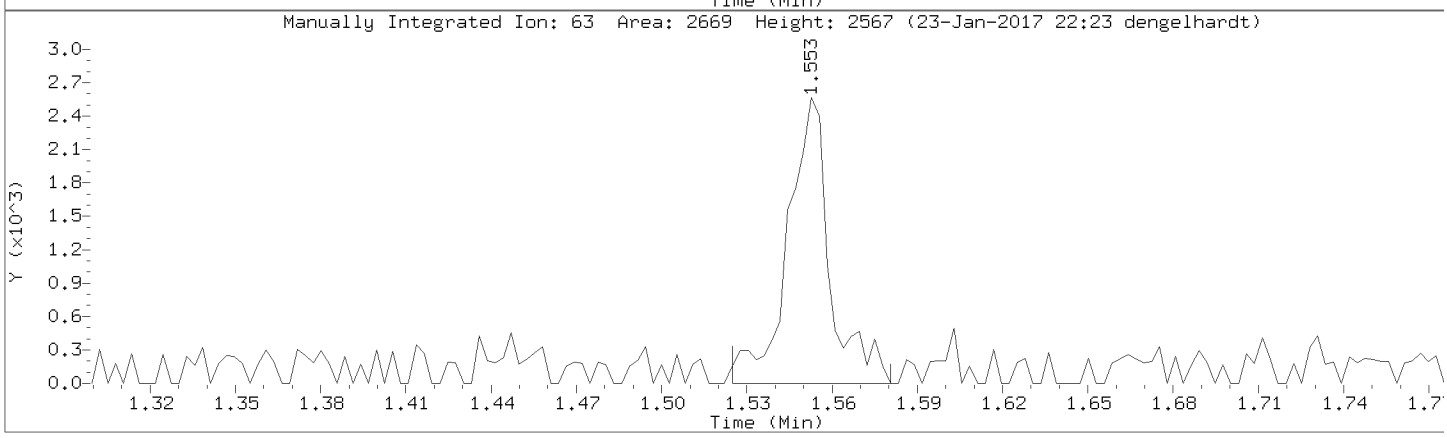
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3





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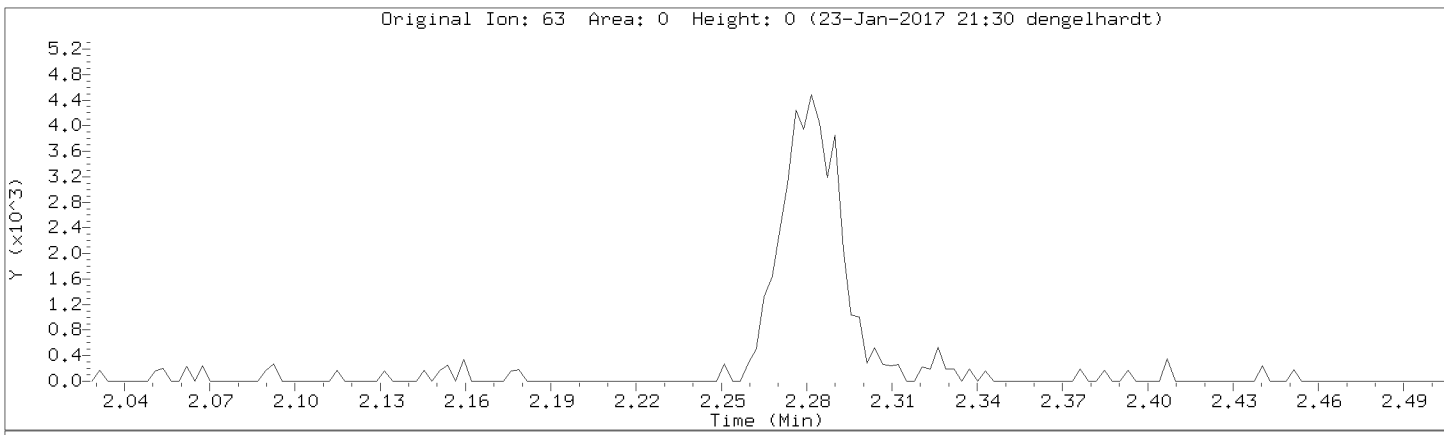
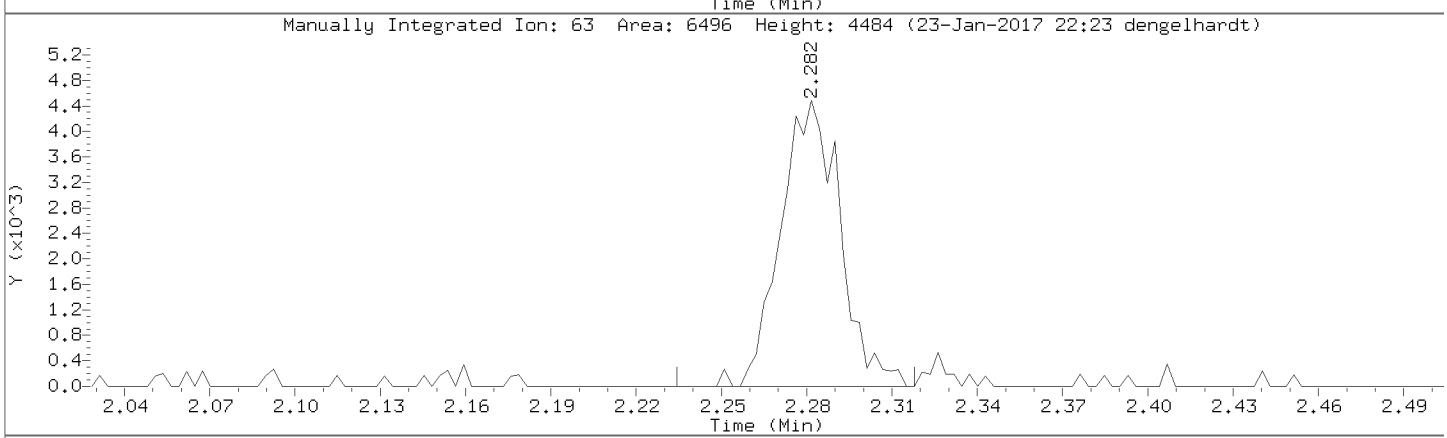
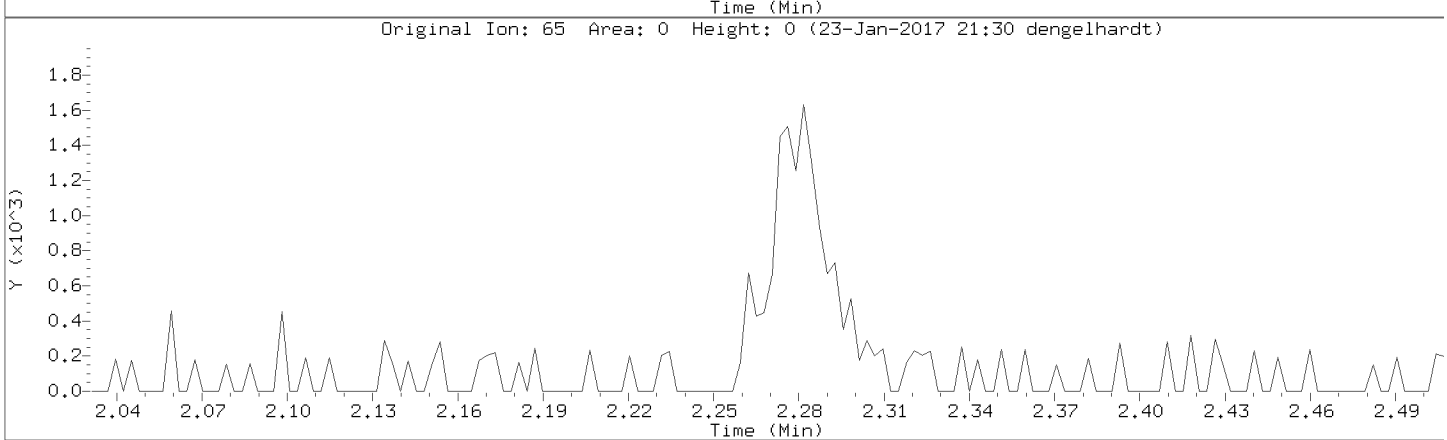
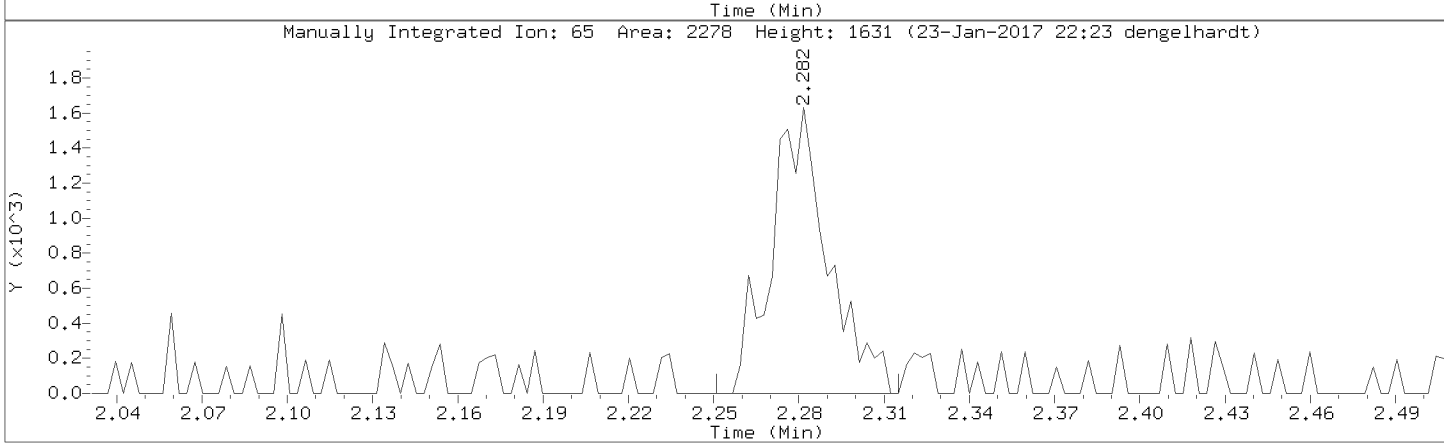
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,1-Dichloroethane Review Code: LT
CAS Number: 75-34-3









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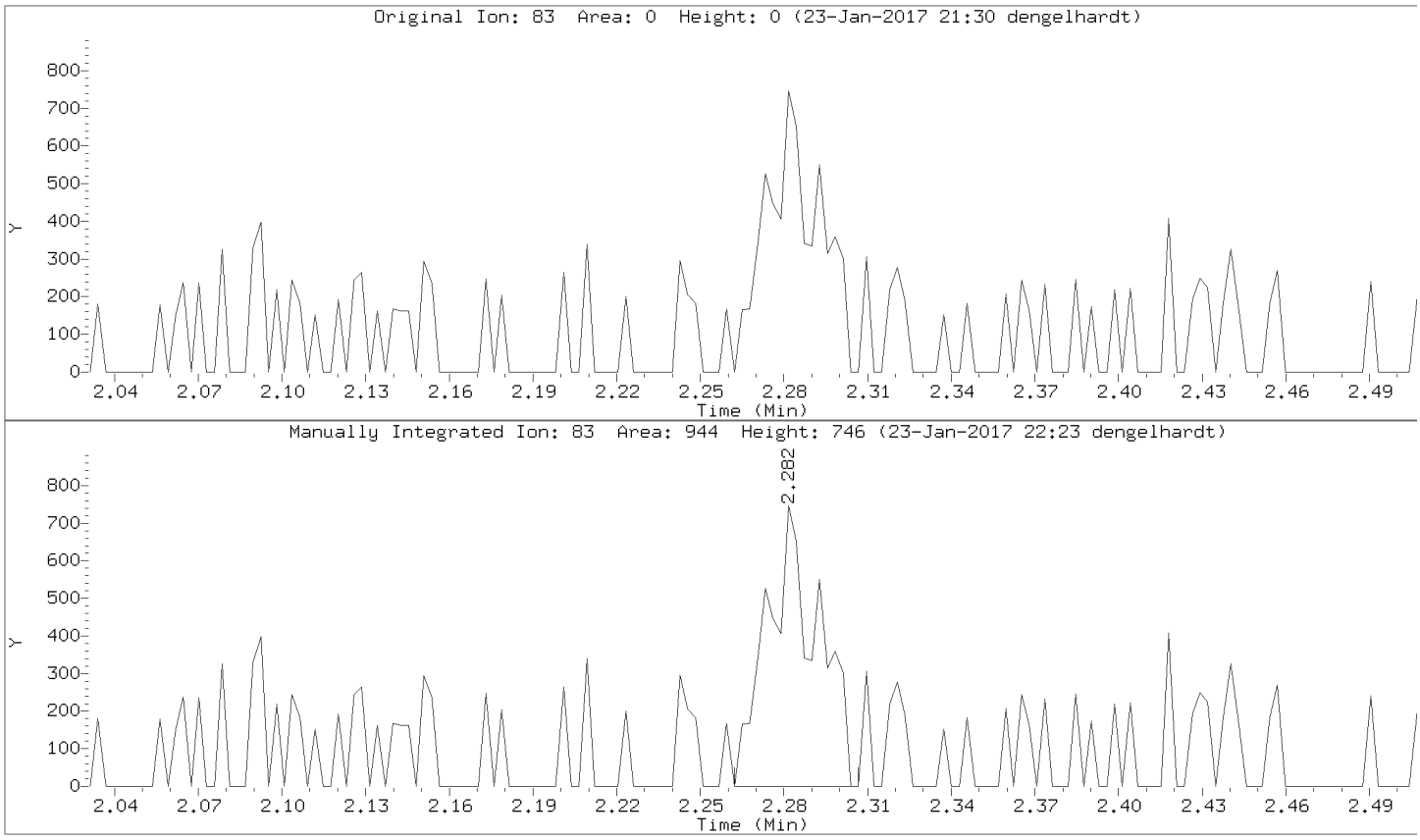
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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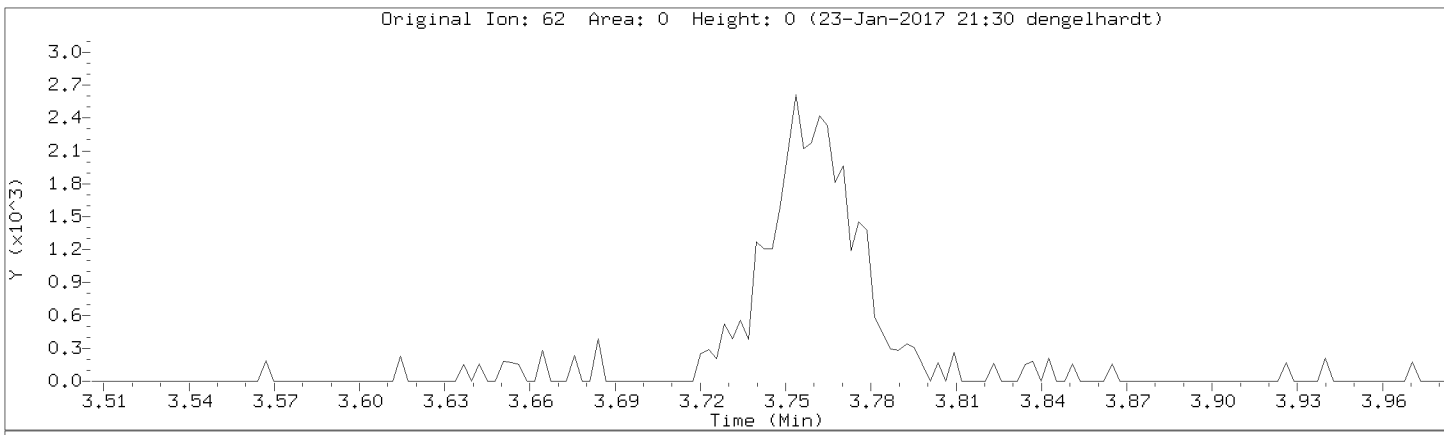
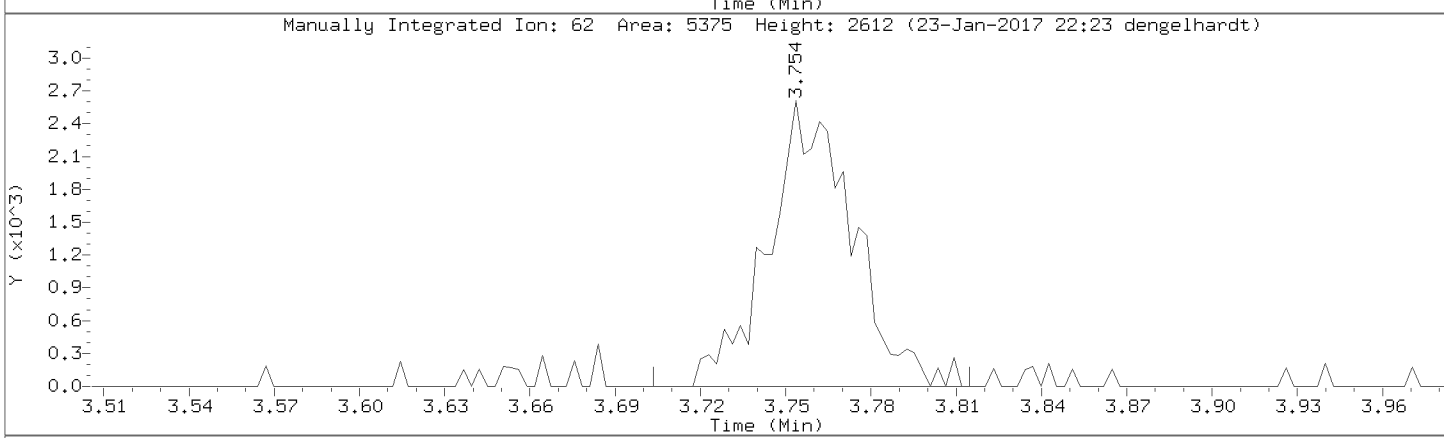
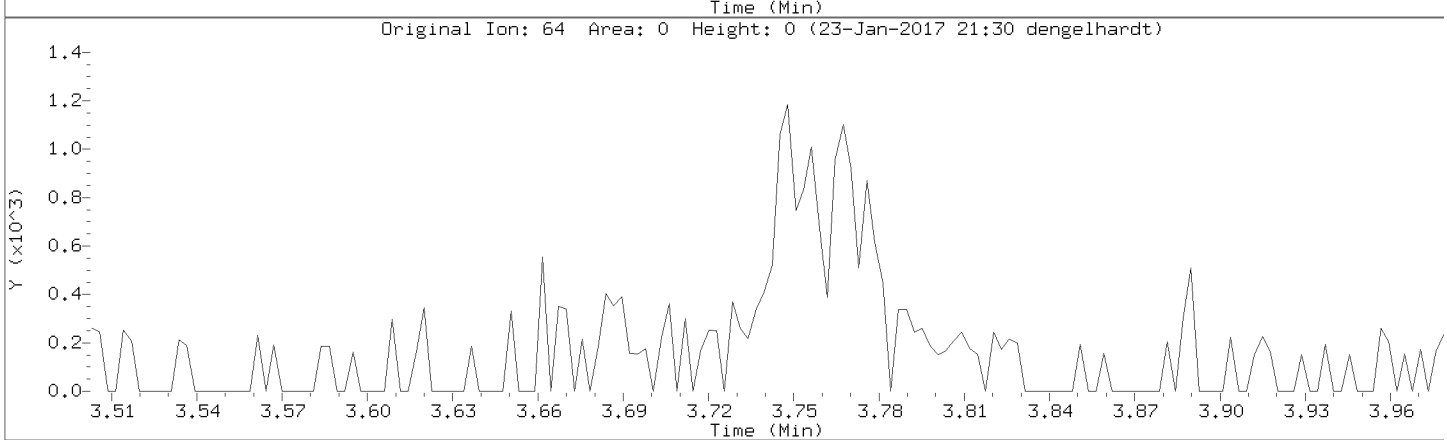
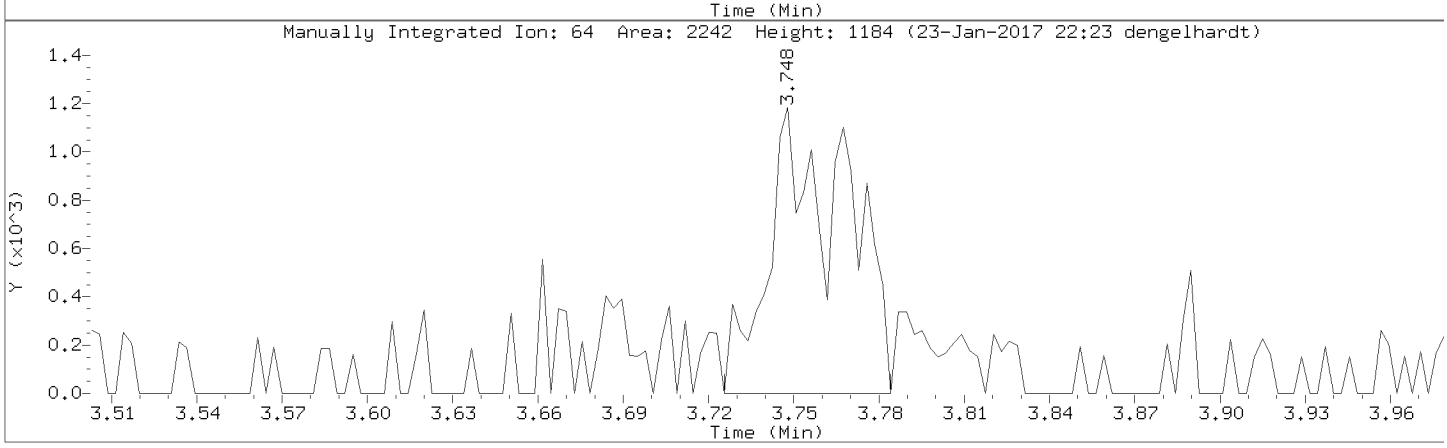
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2









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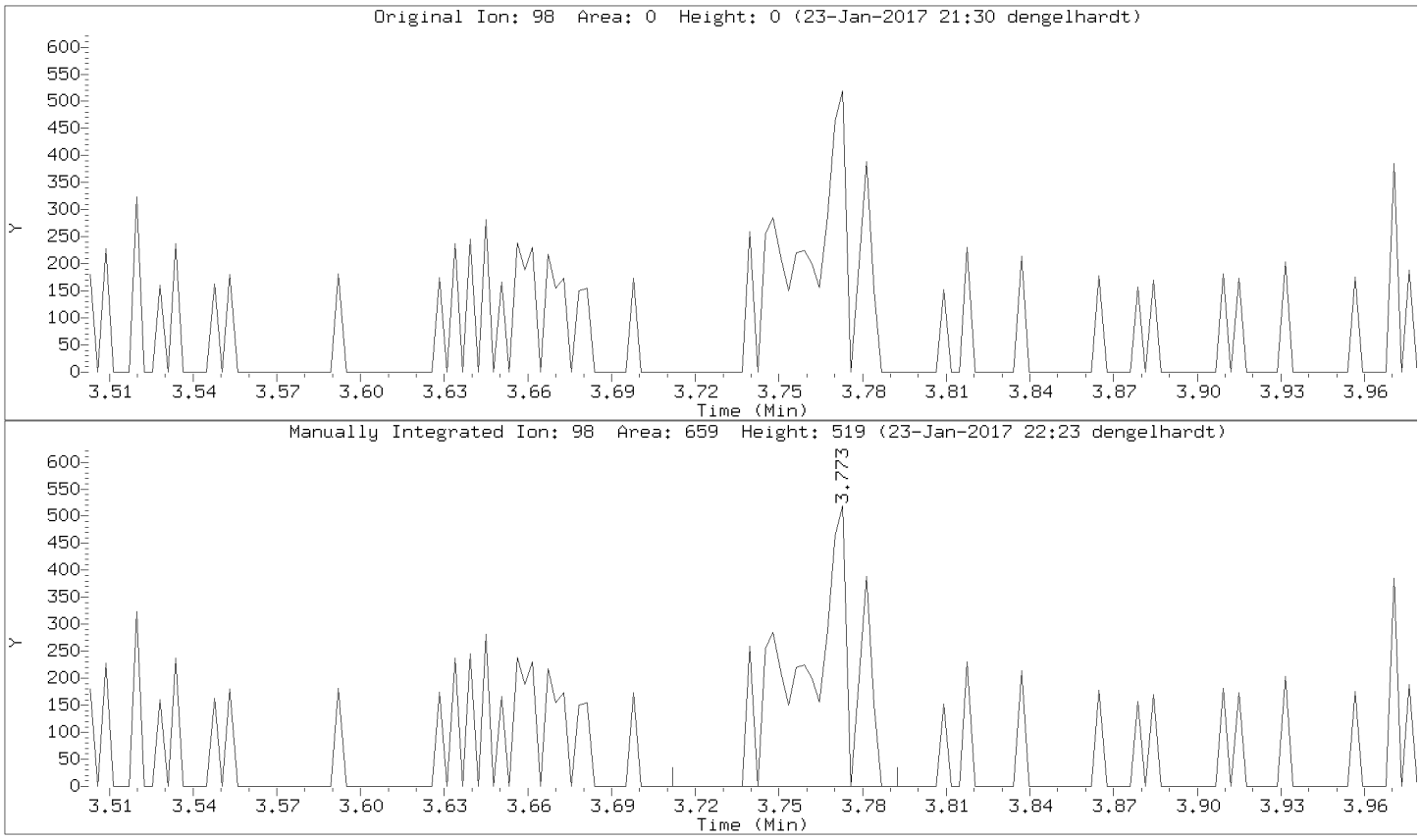
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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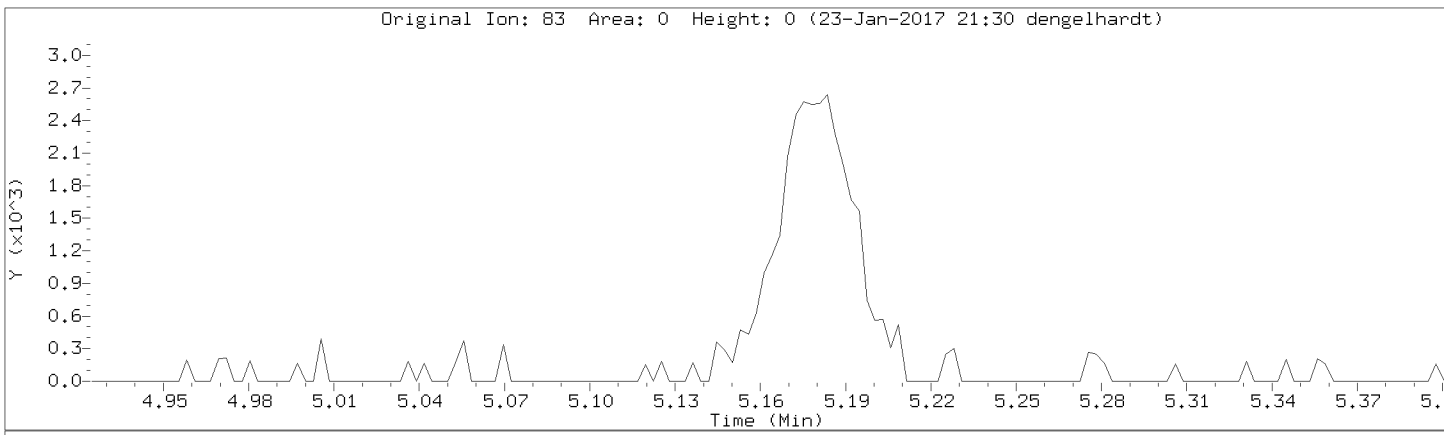
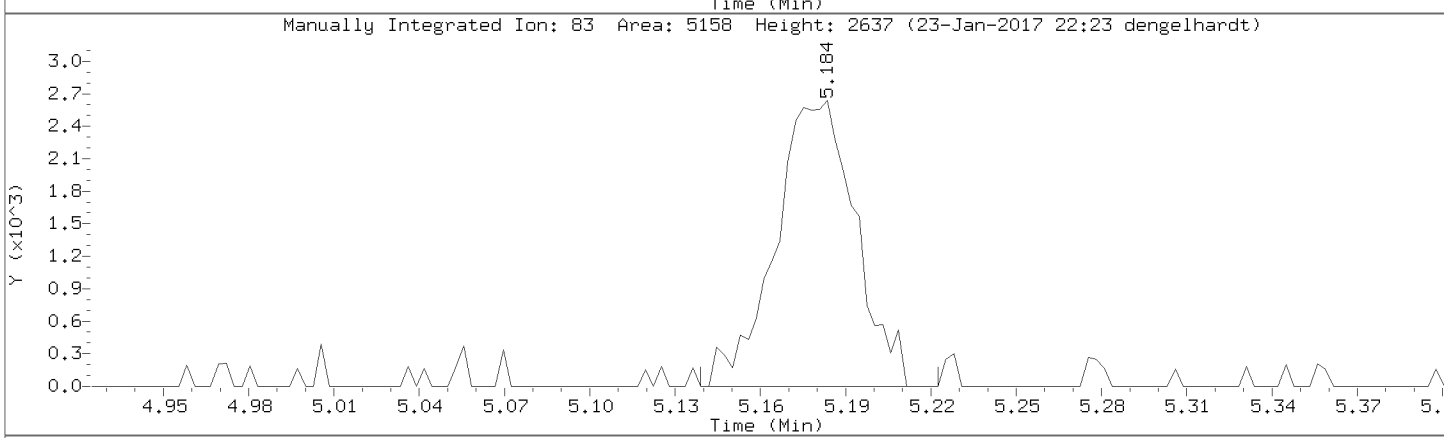
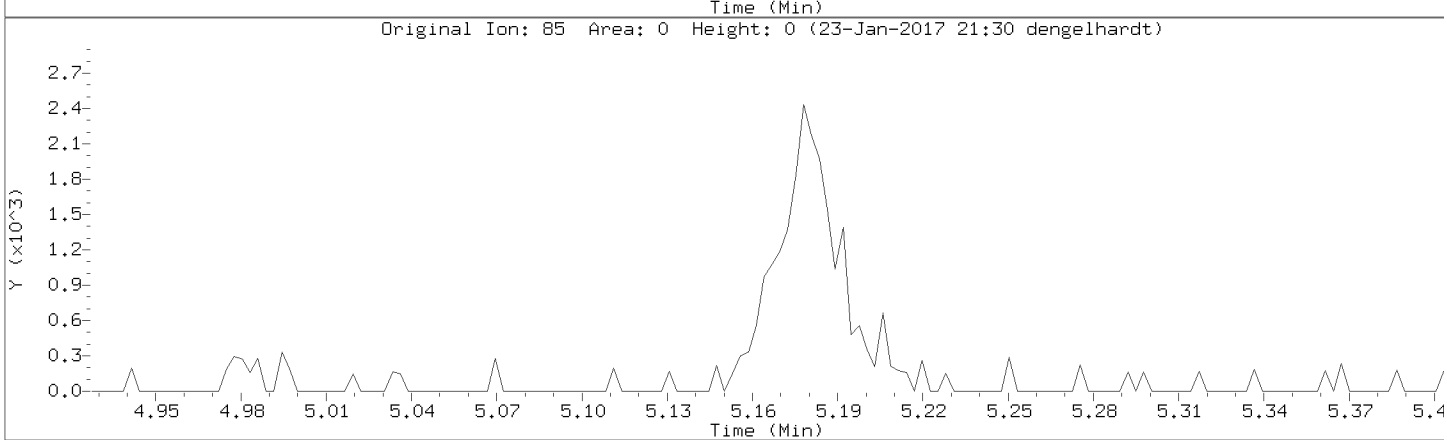
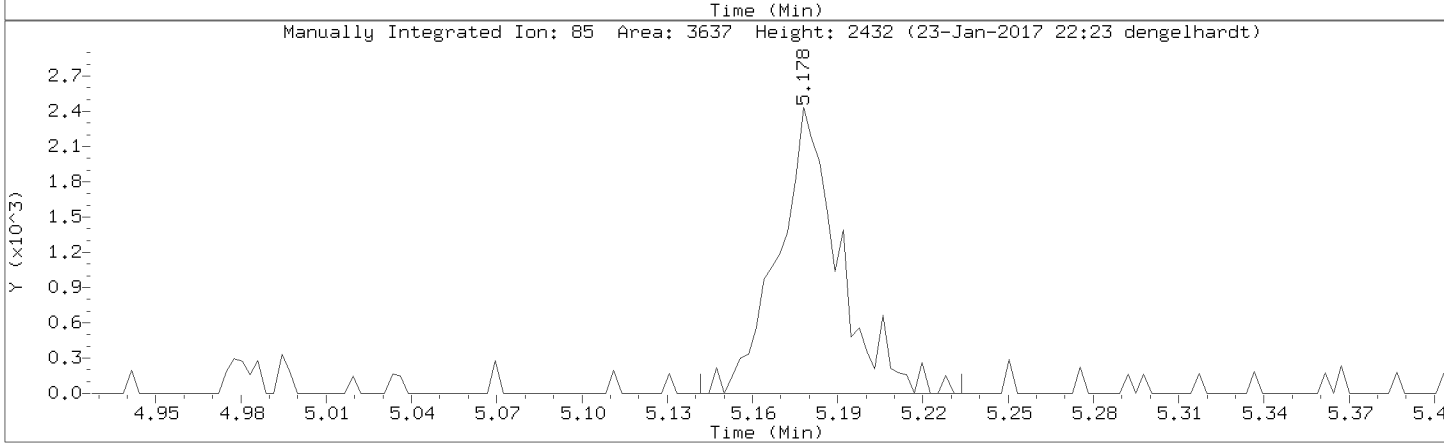
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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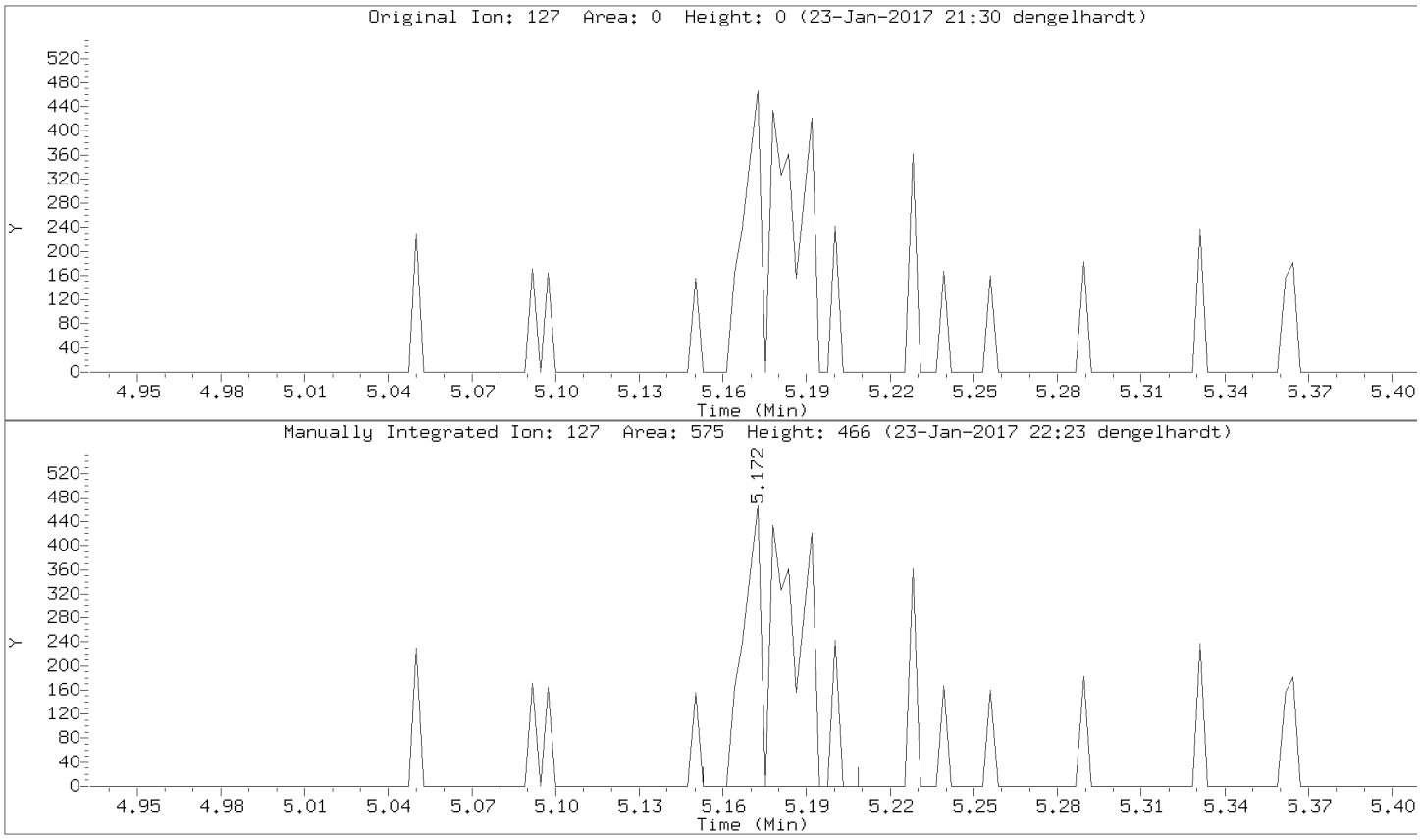
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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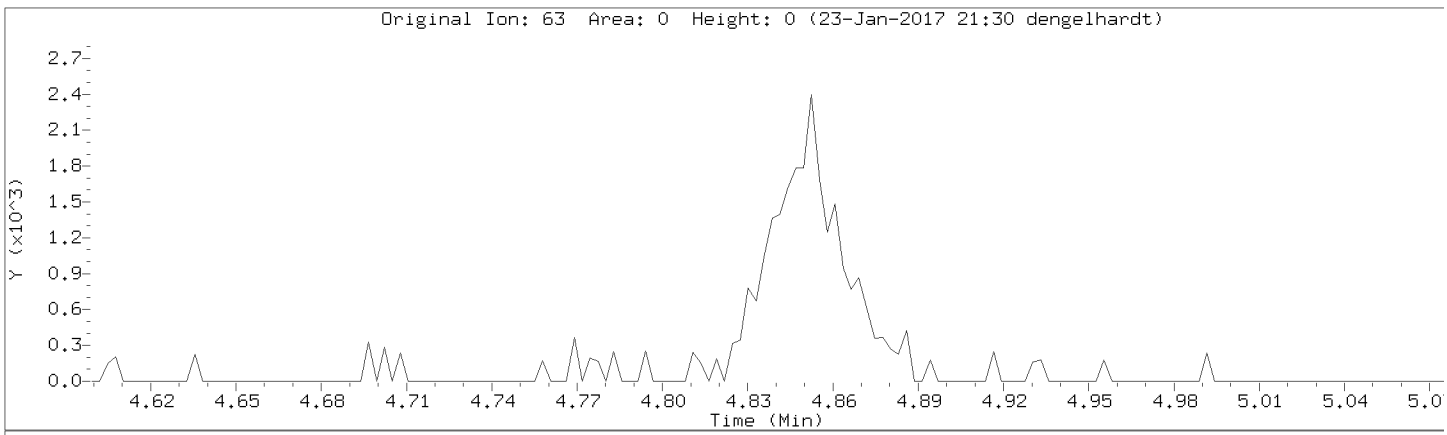
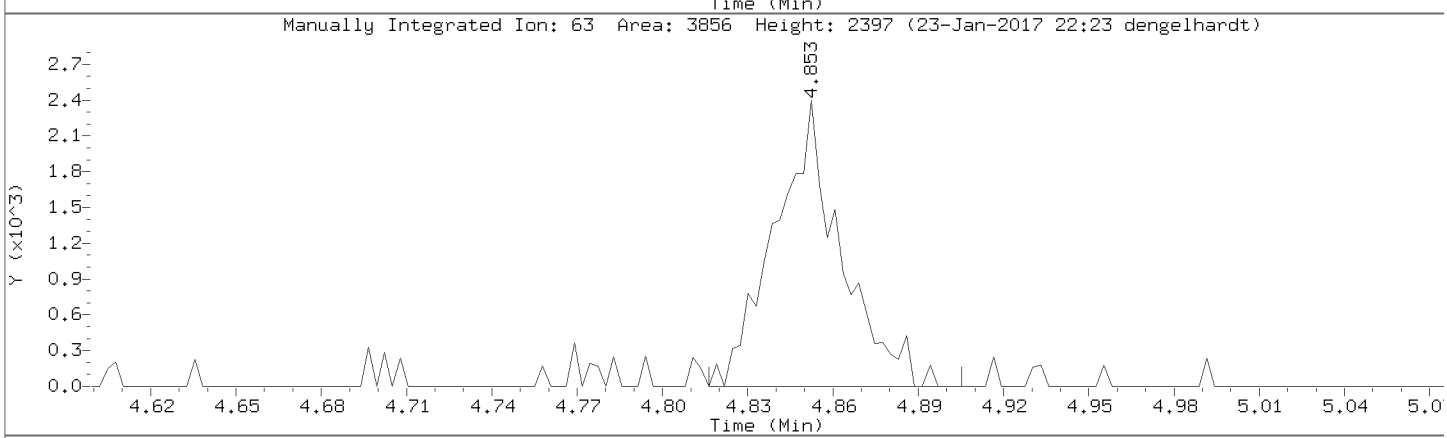
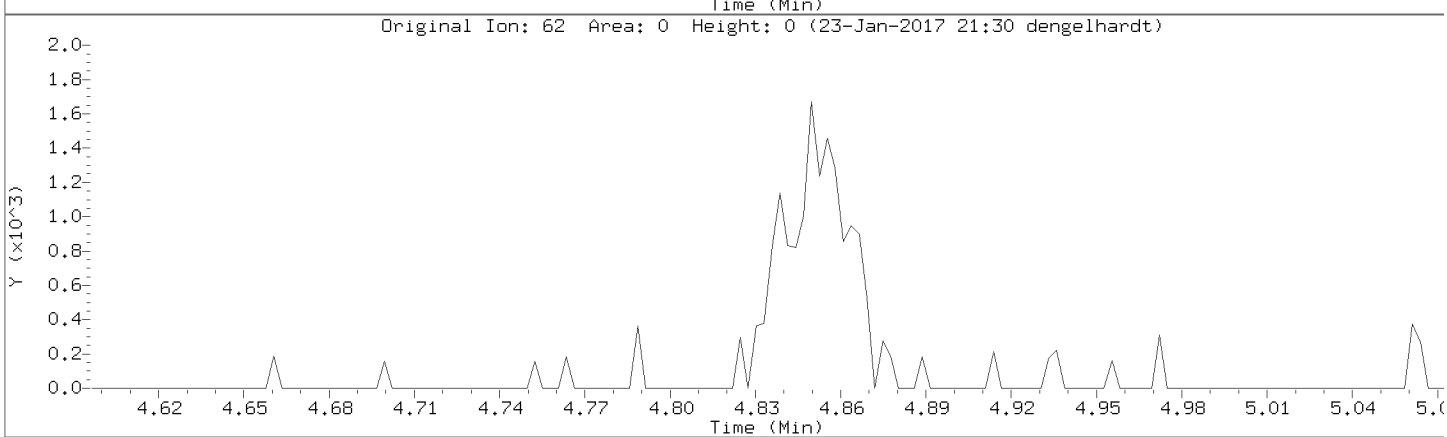
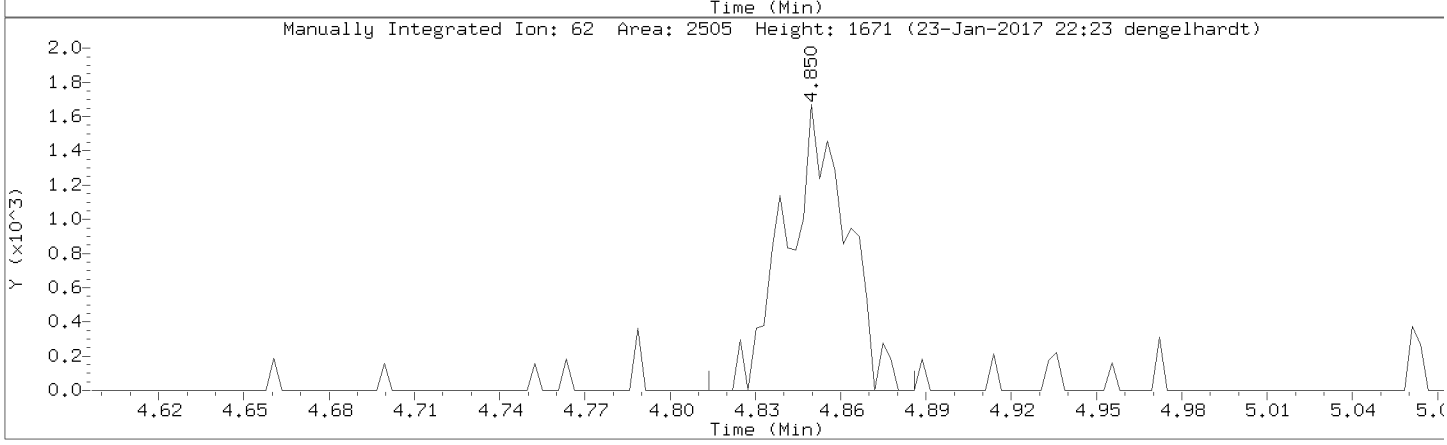
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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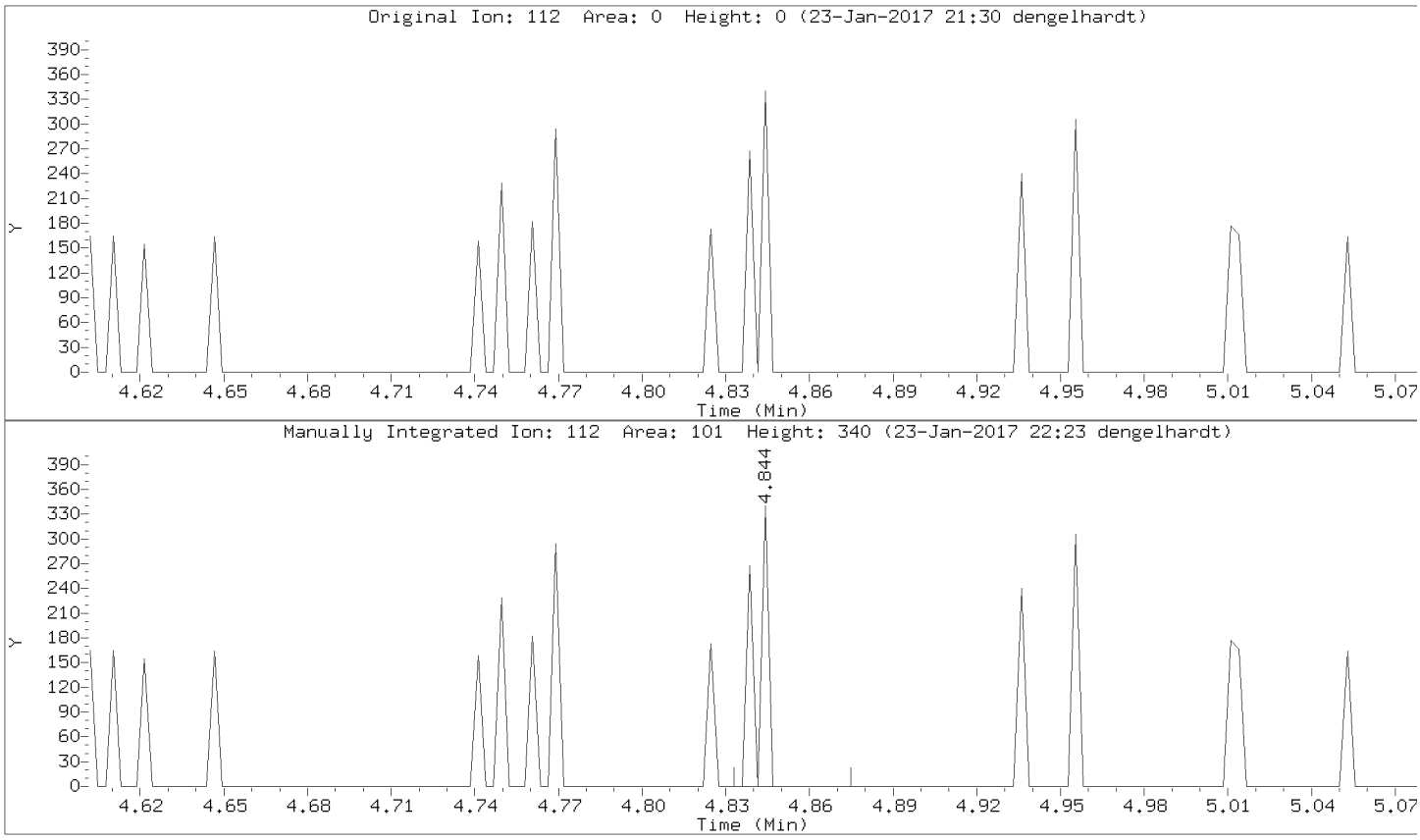
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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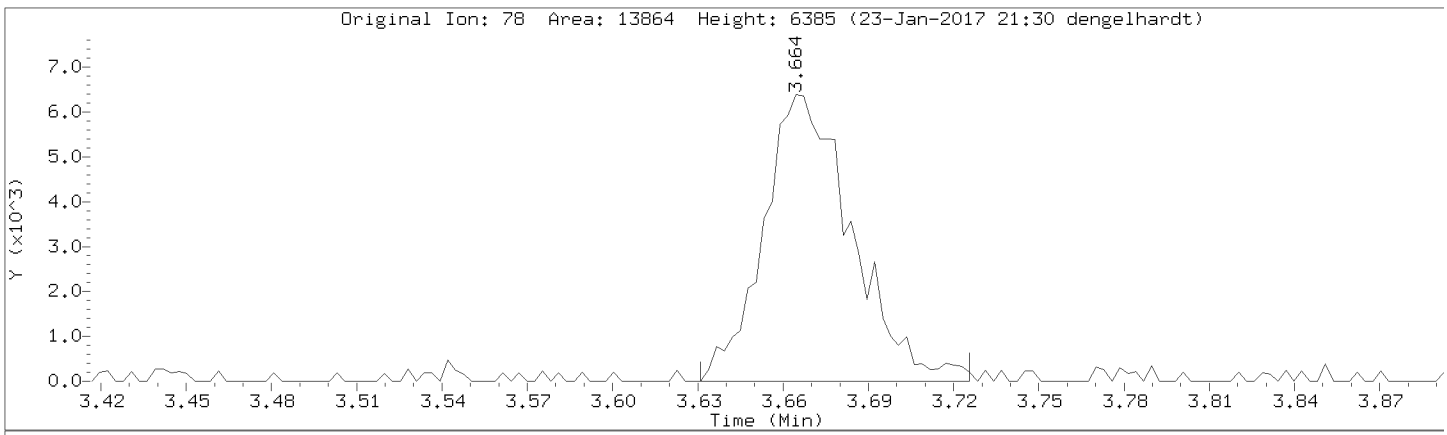
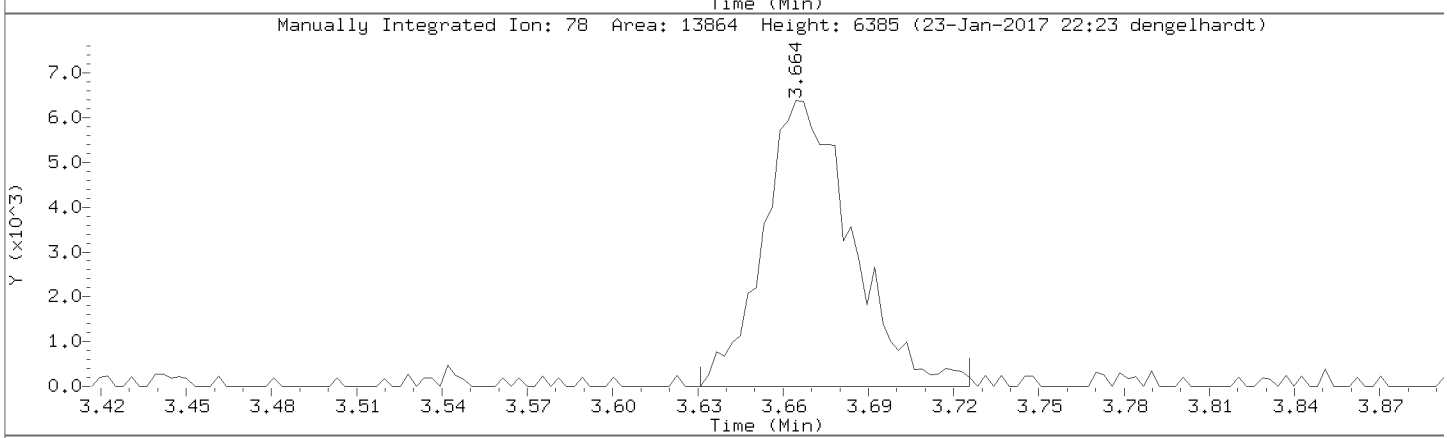
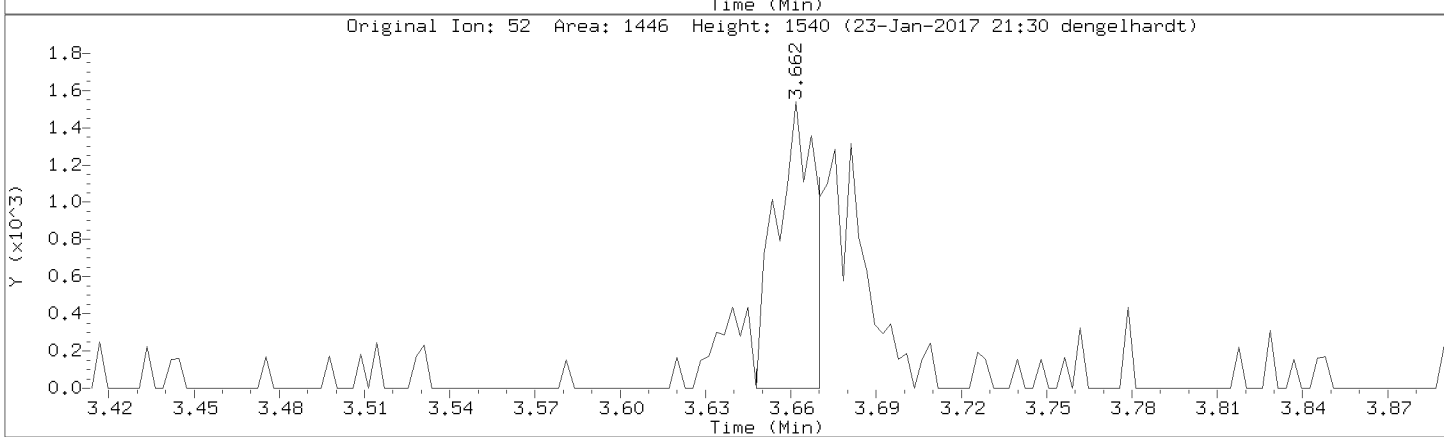
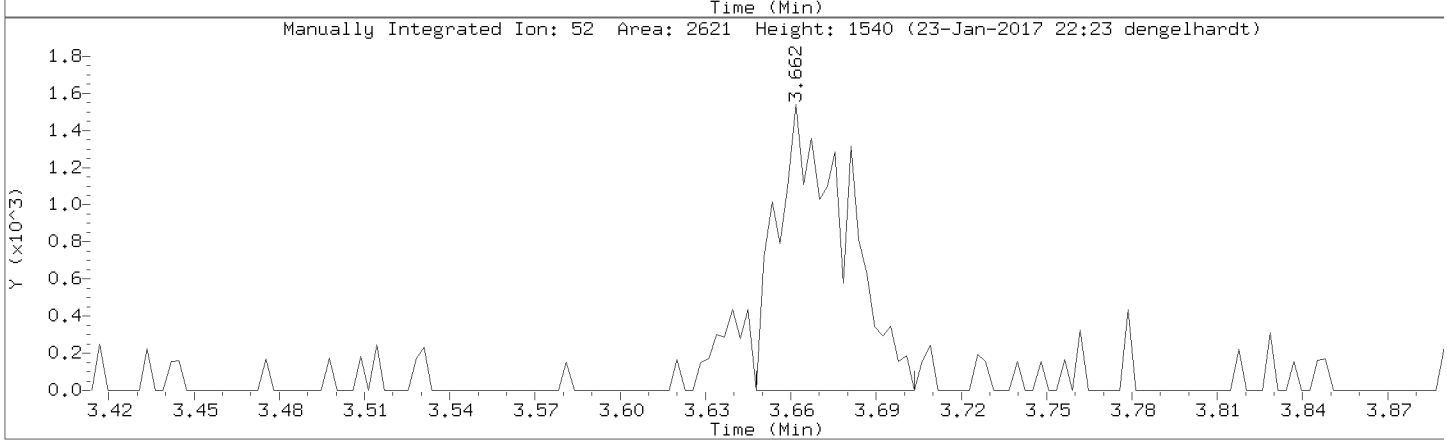
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Benzene Review Code: LT
CAS Number: 71-43-2









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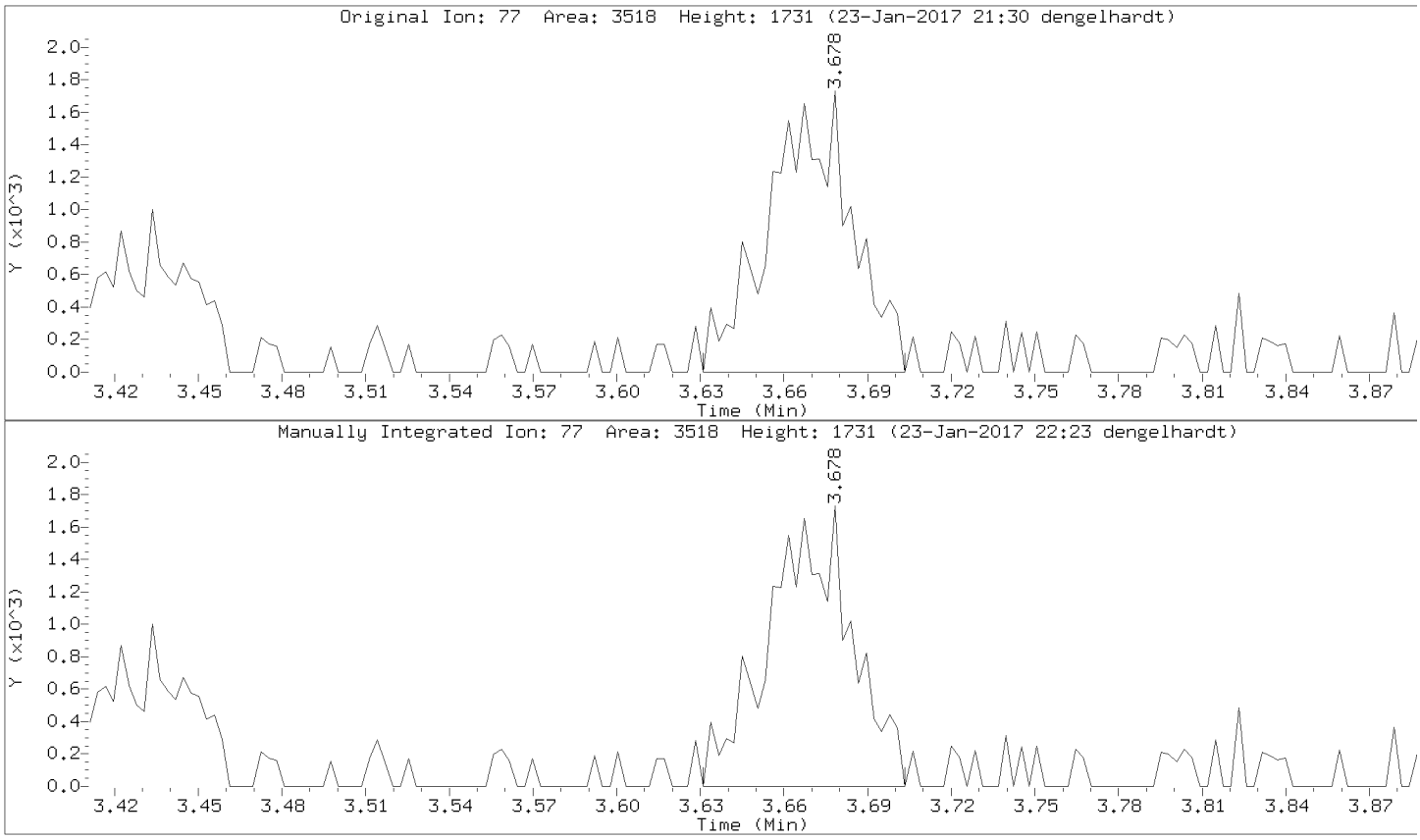
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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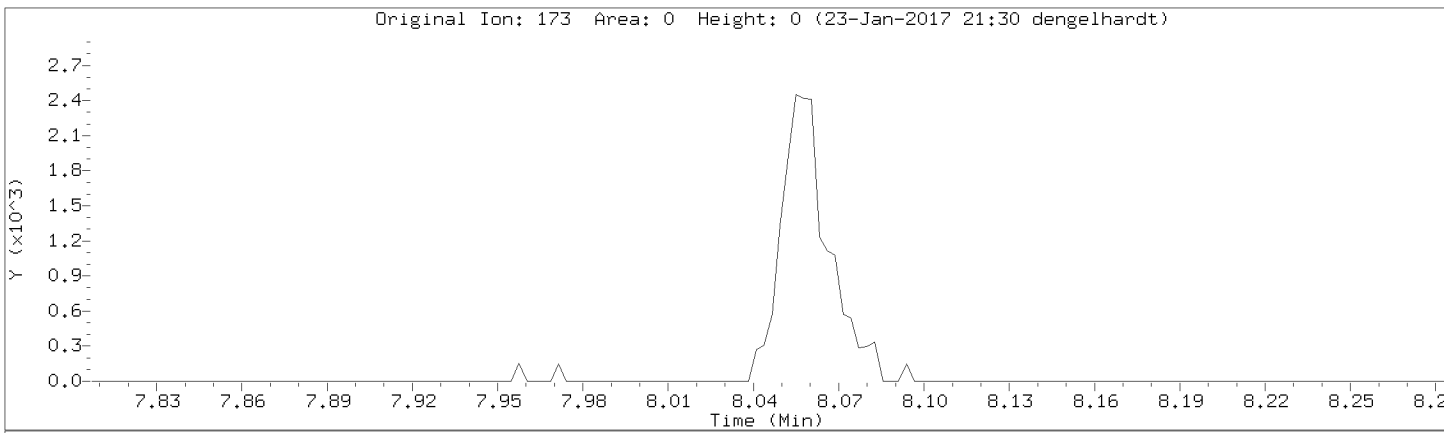
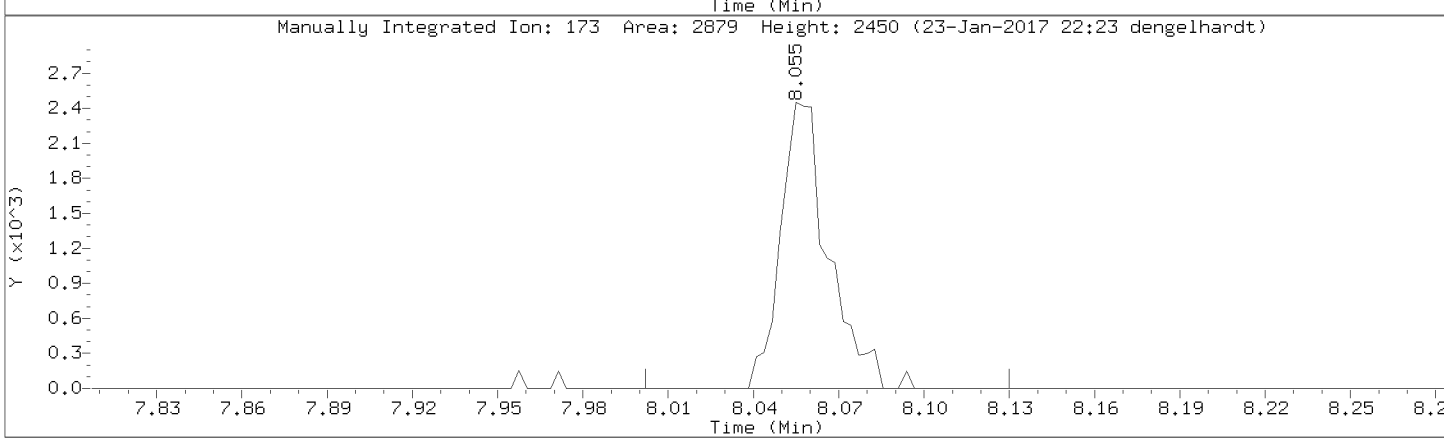
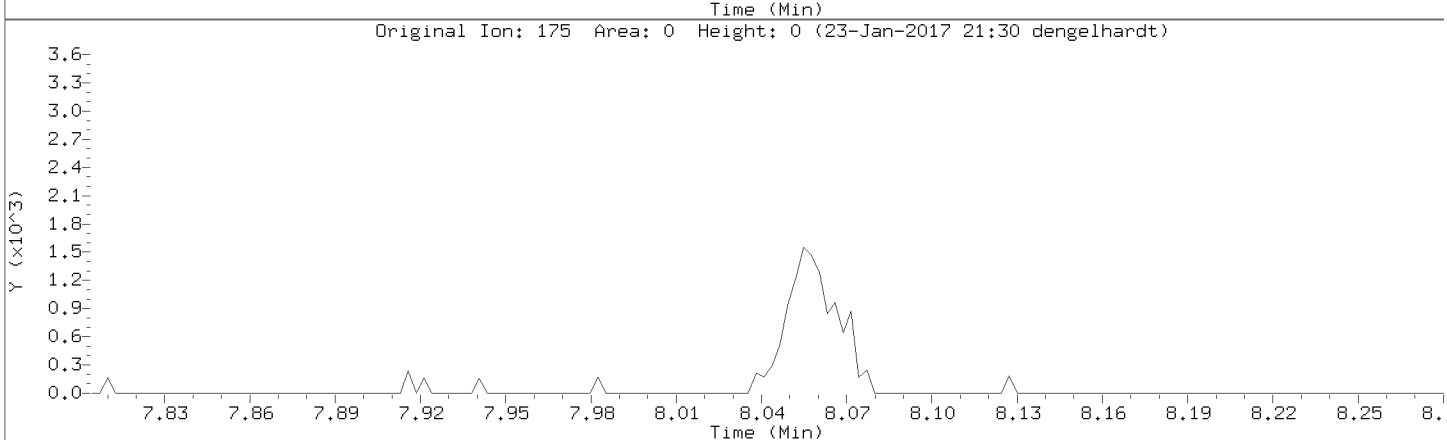
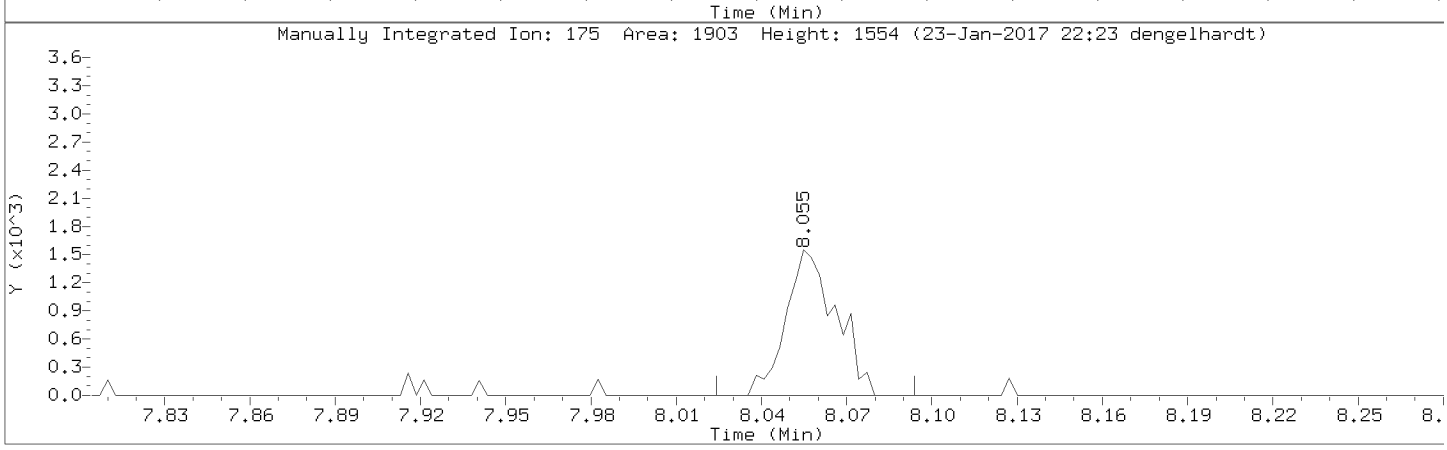
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2









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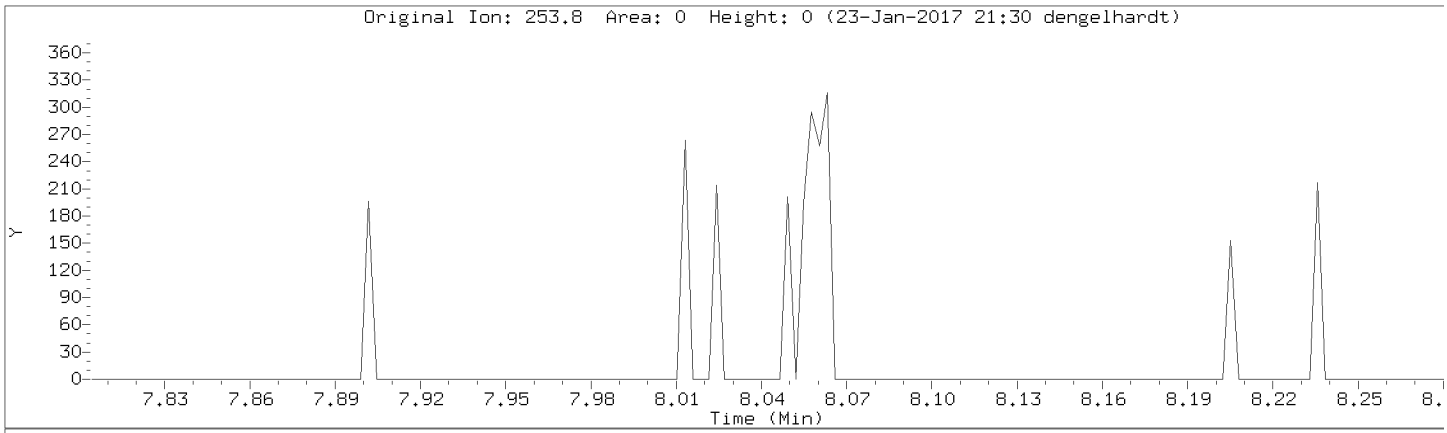
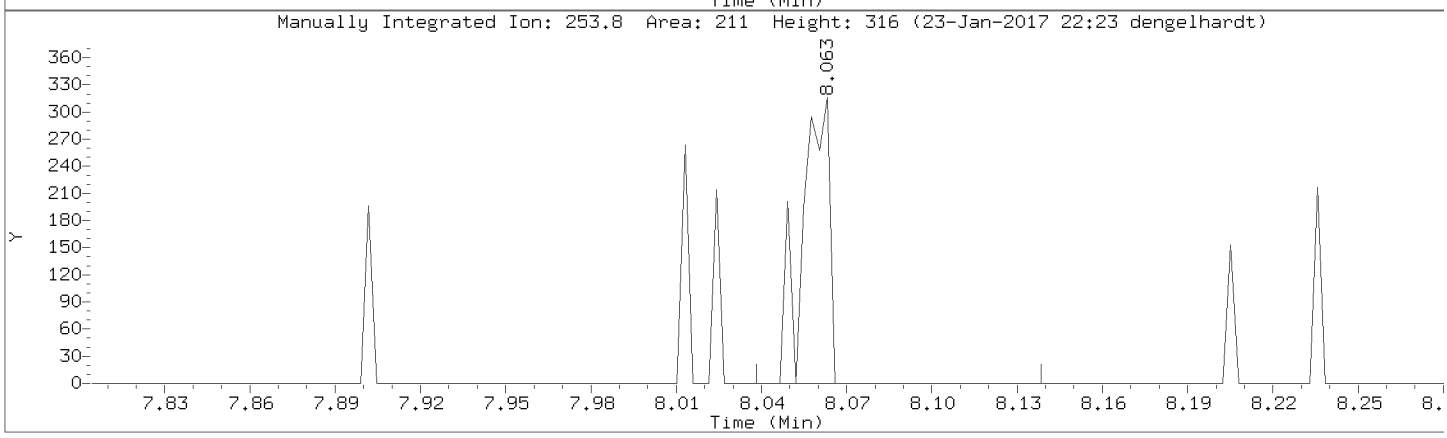
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3





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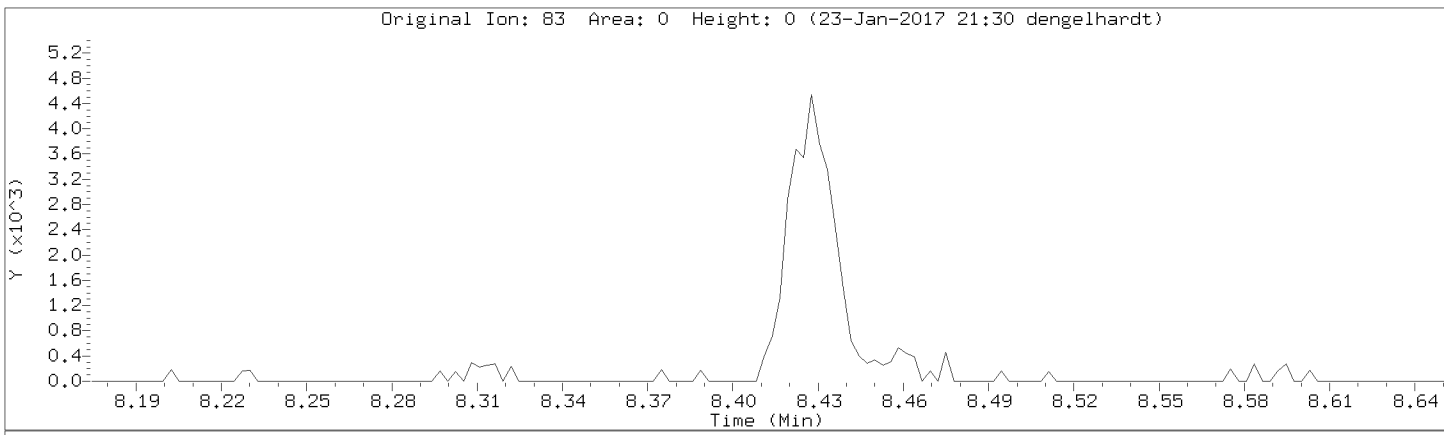
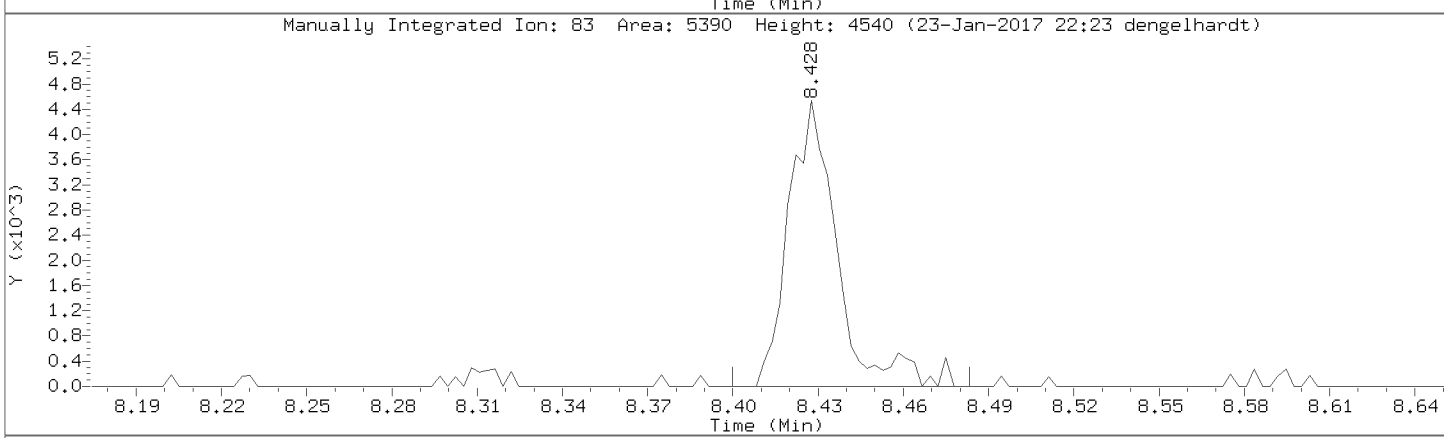
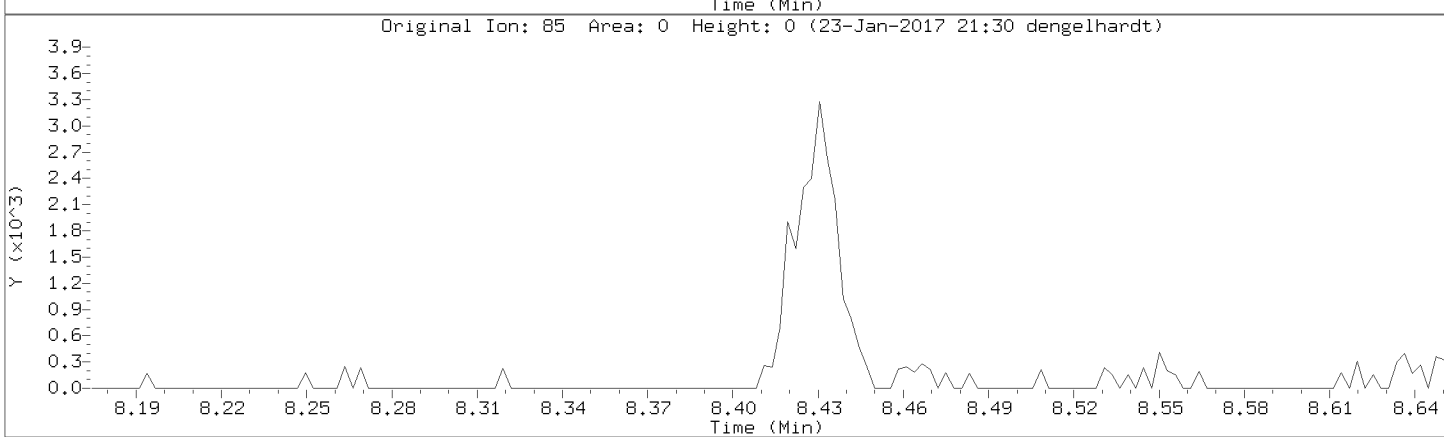
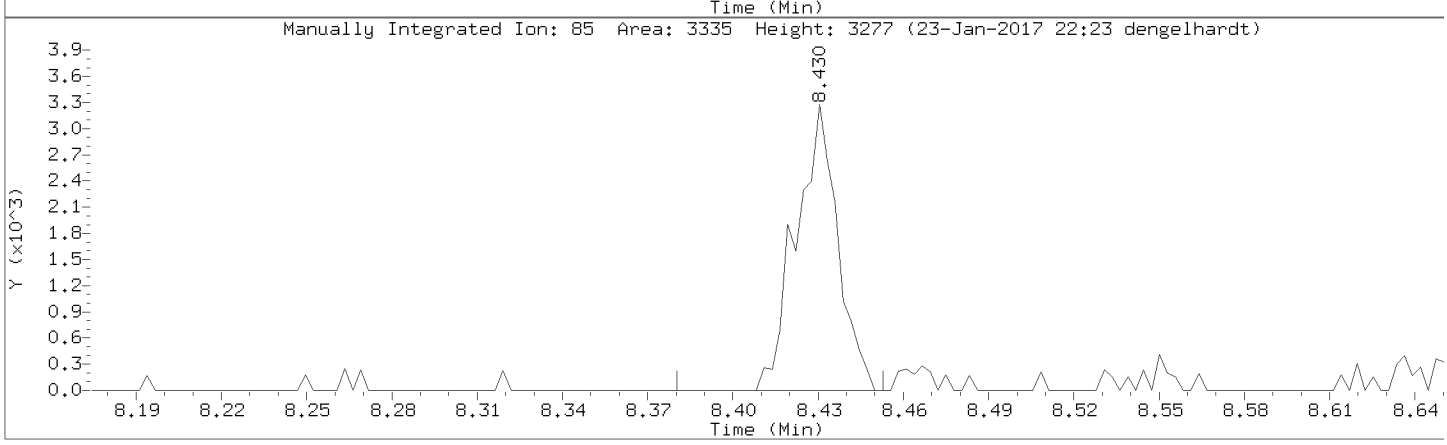
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5









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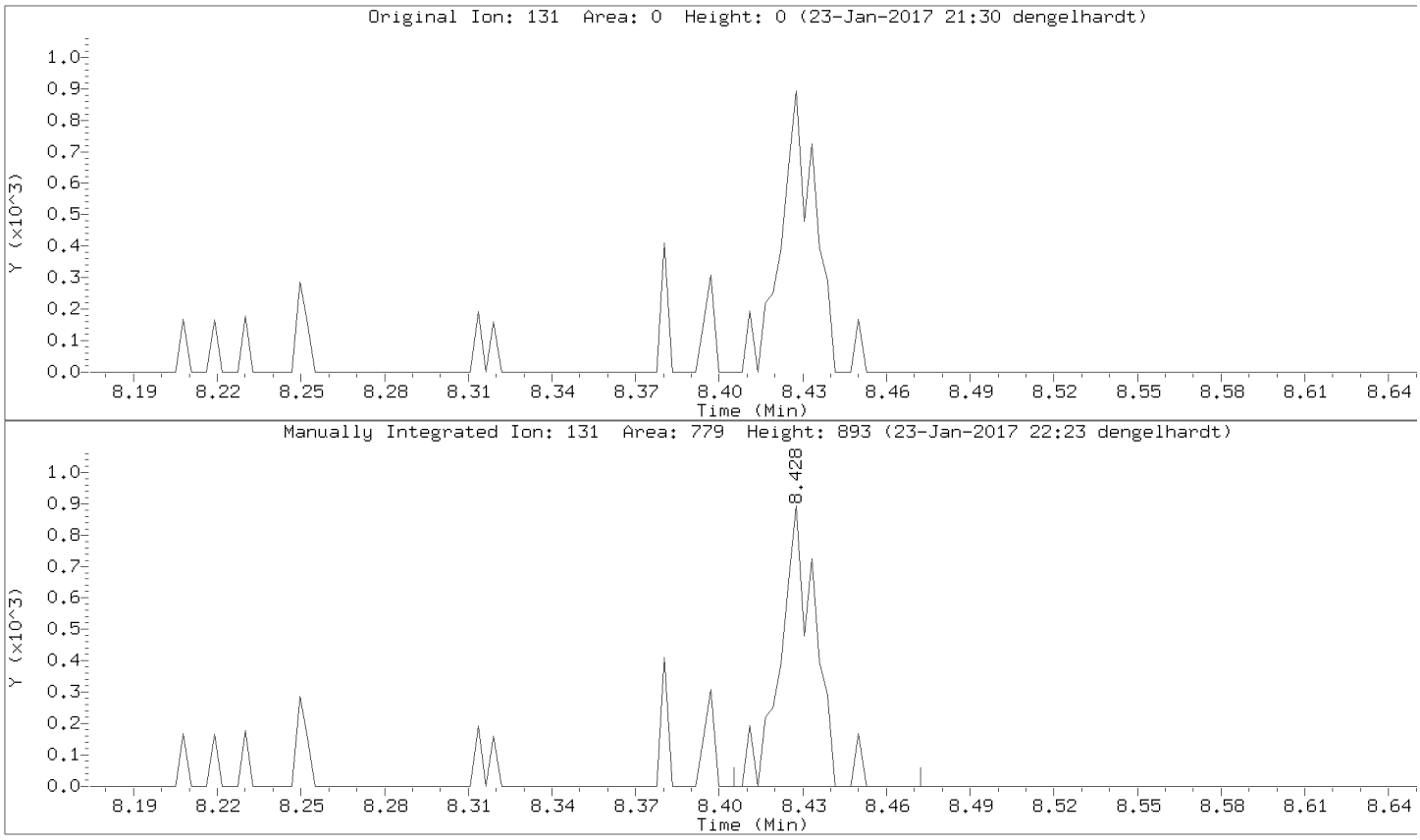
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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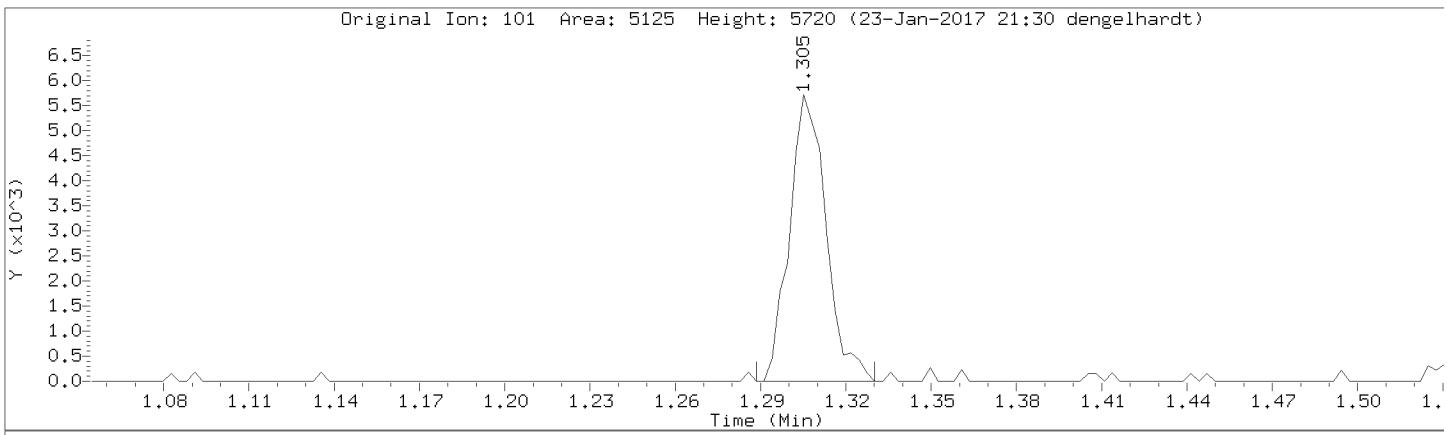
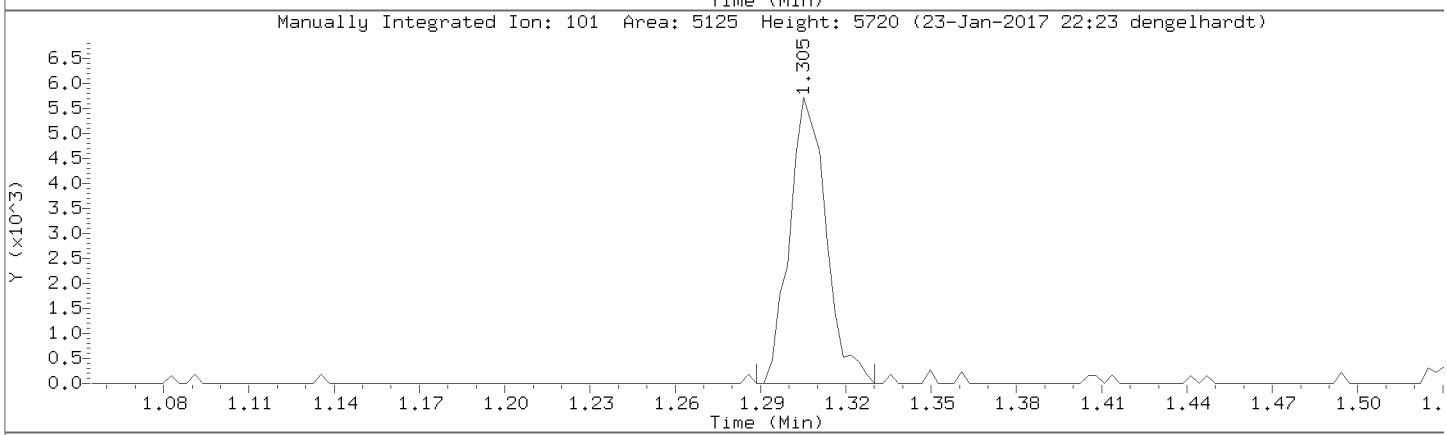
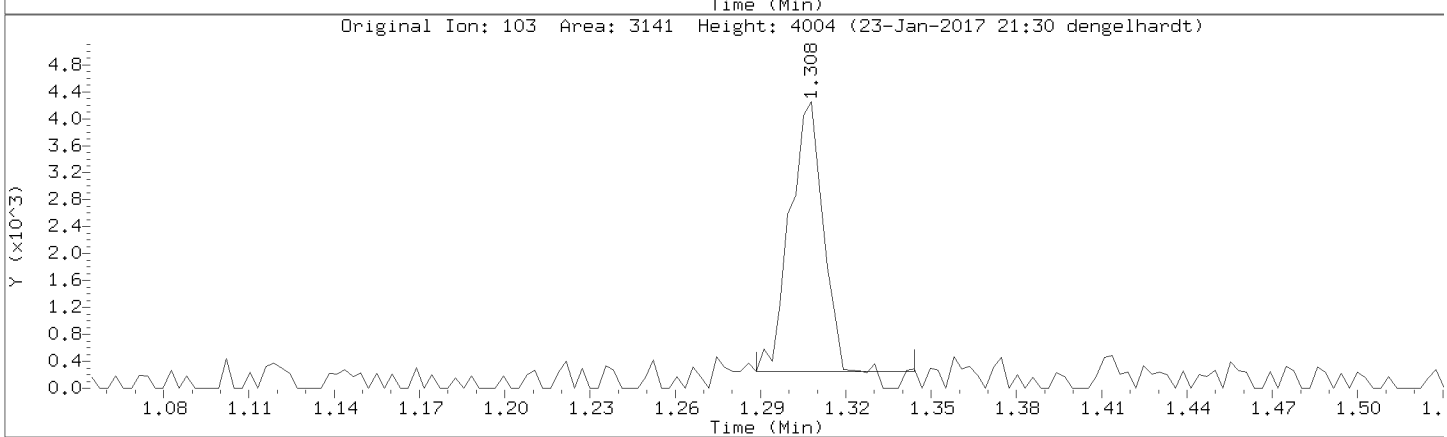
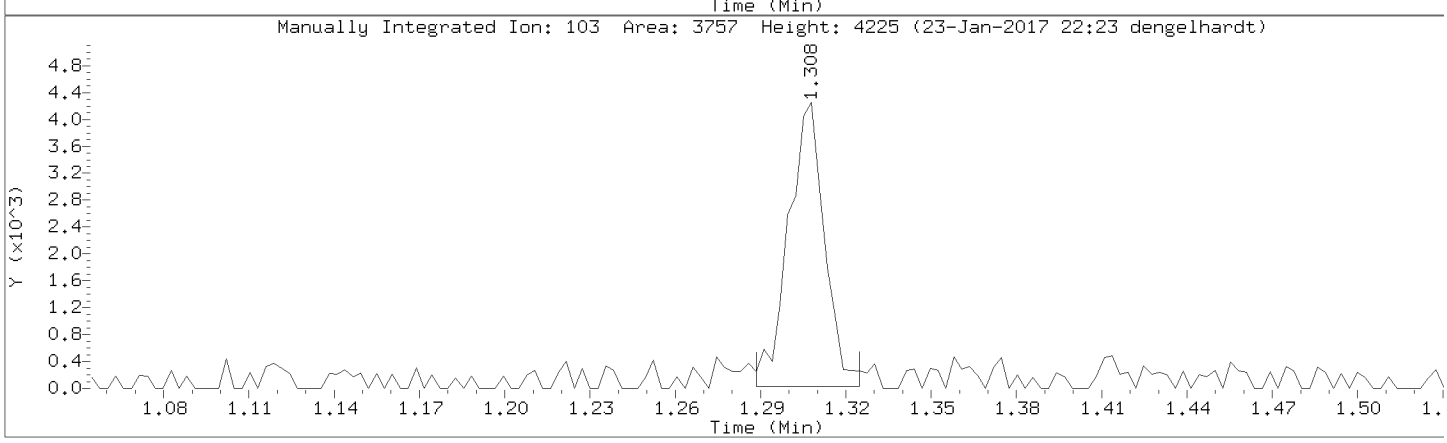
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Trichlorofluoromethane Review Code: LT
CAS Number: 75-69-4









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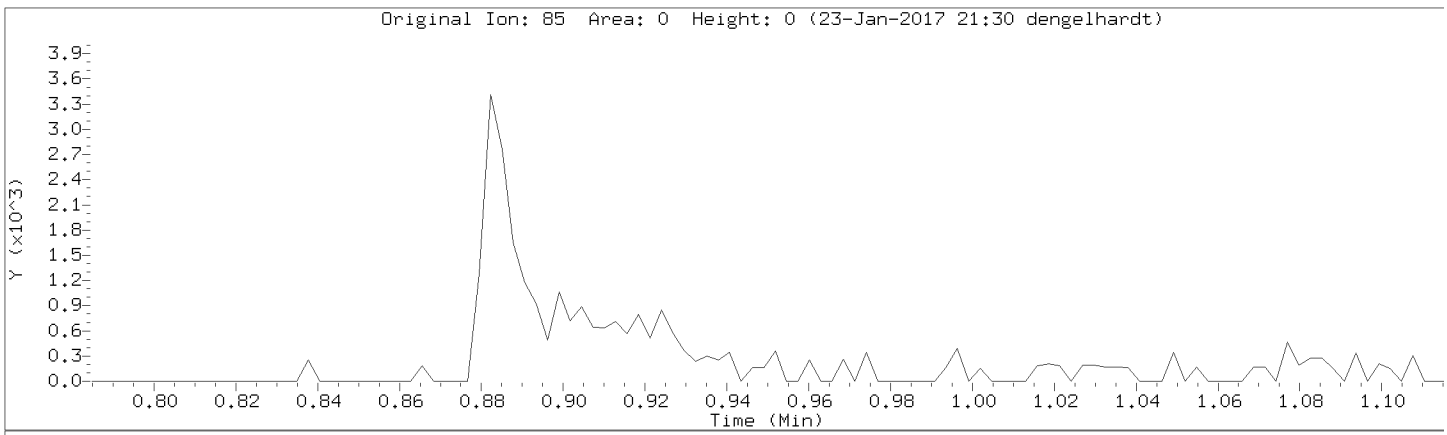
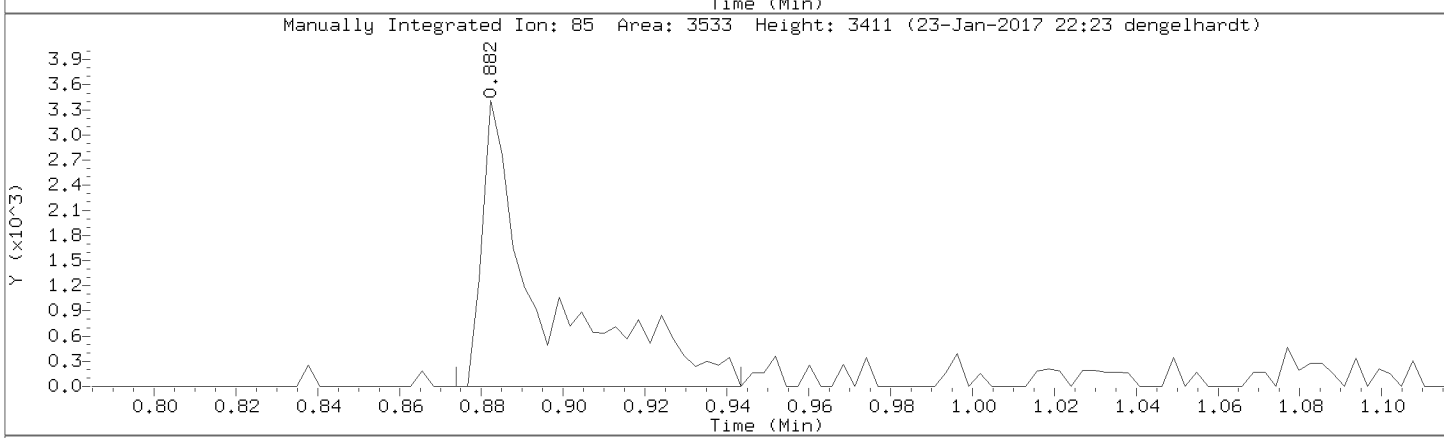
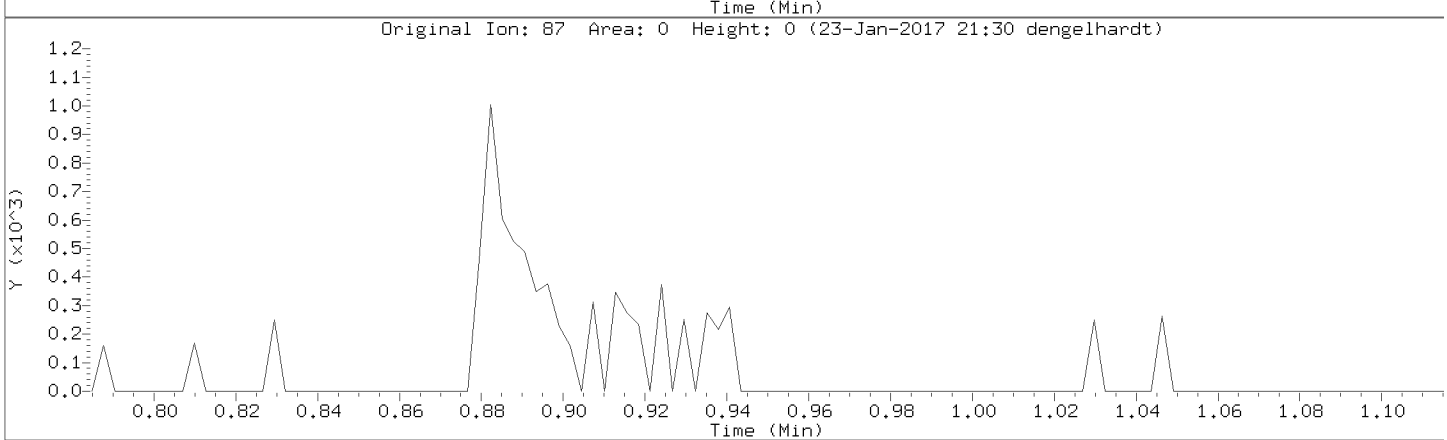
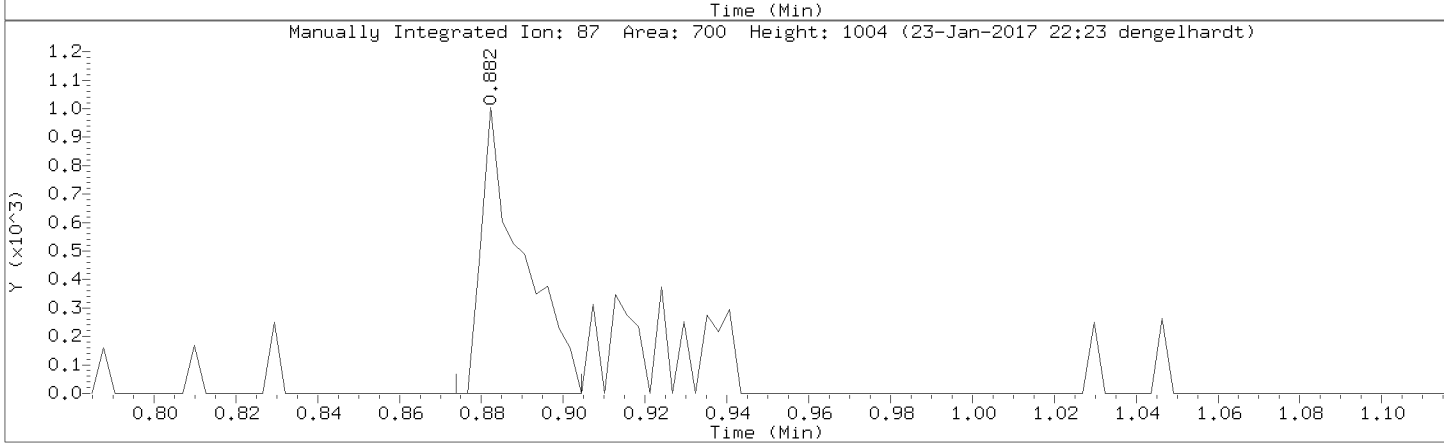
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 107-06-2









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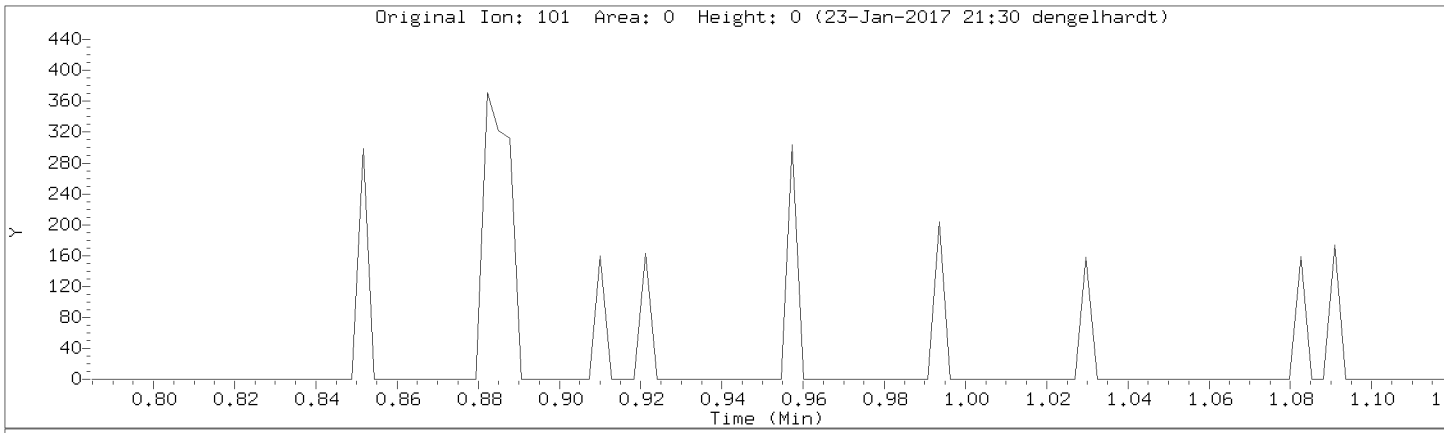
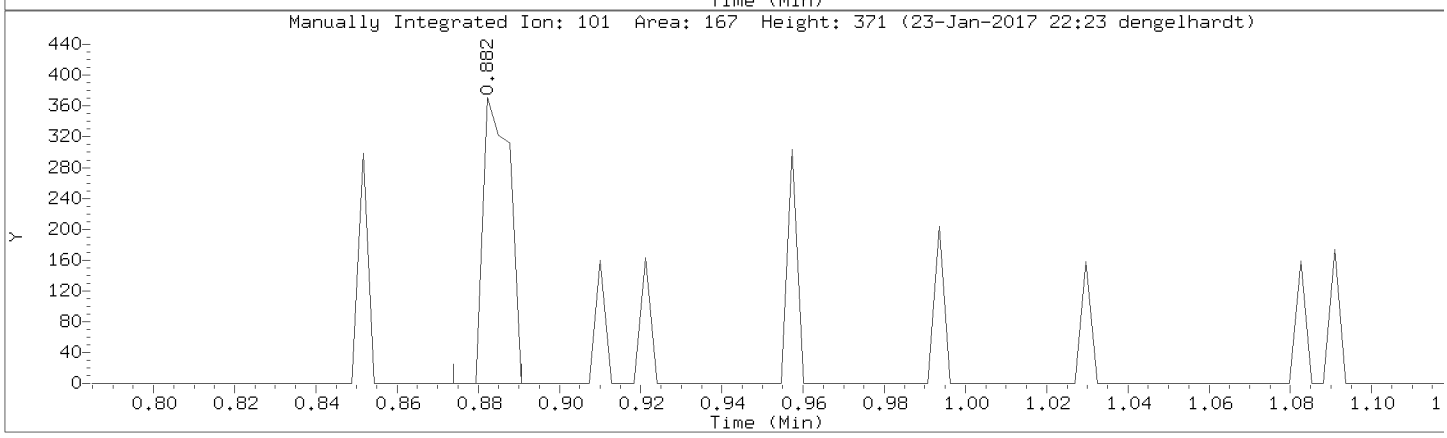
Lab Sample ID: 8260-CAL3





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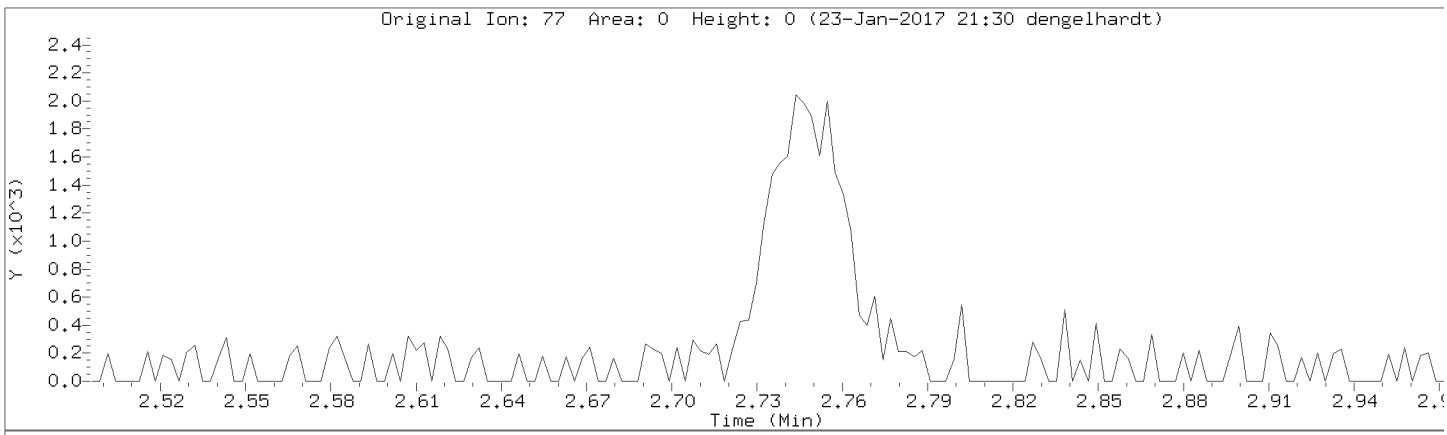
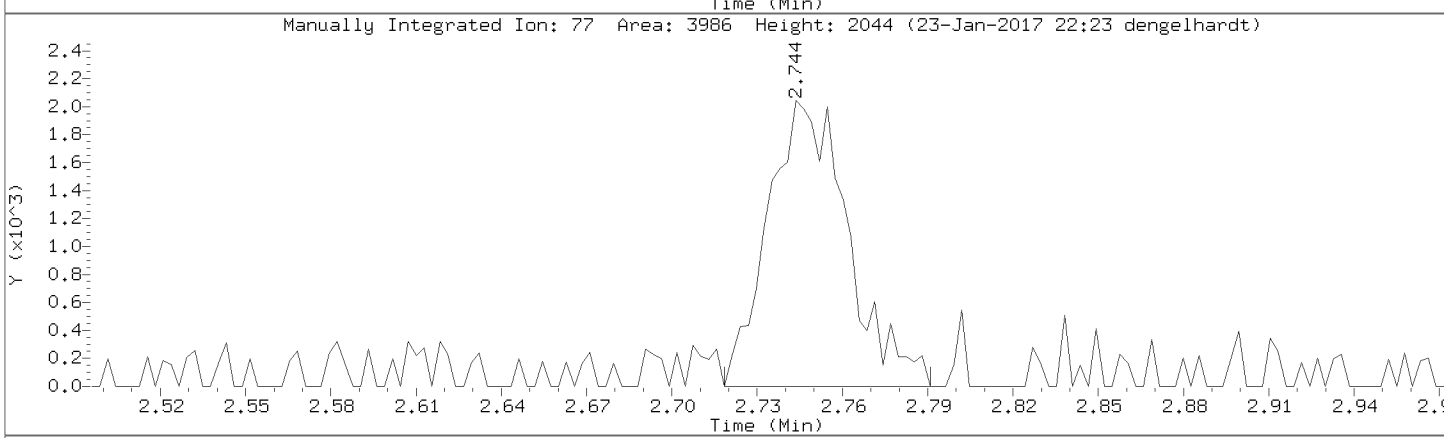
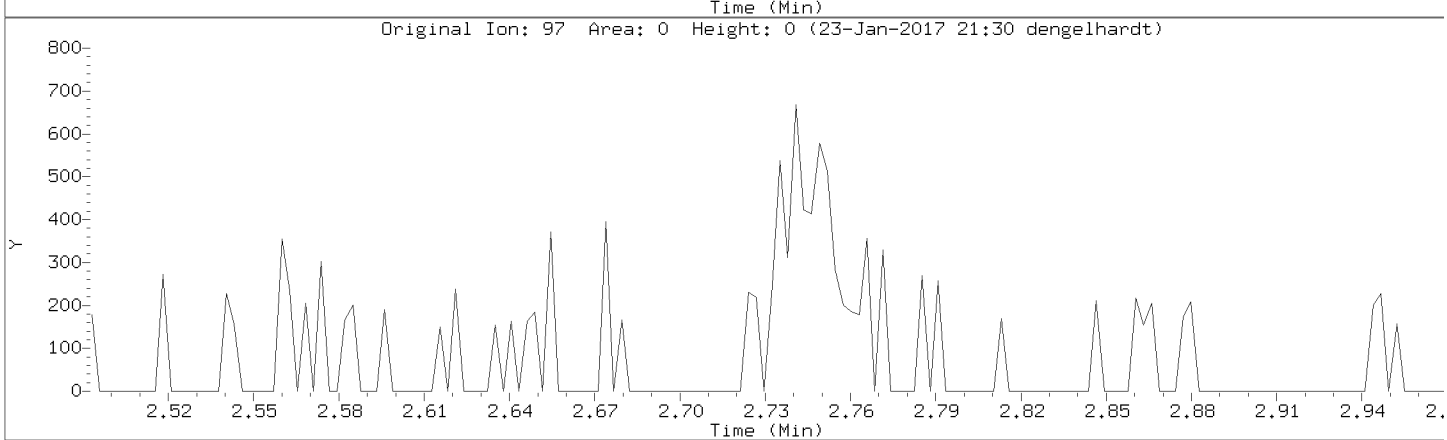
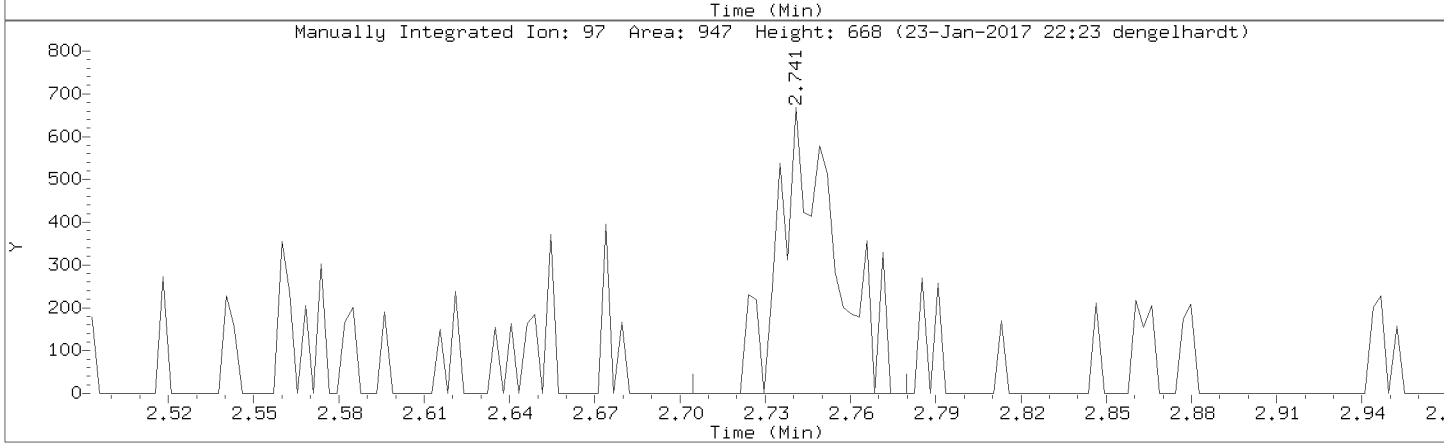
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7



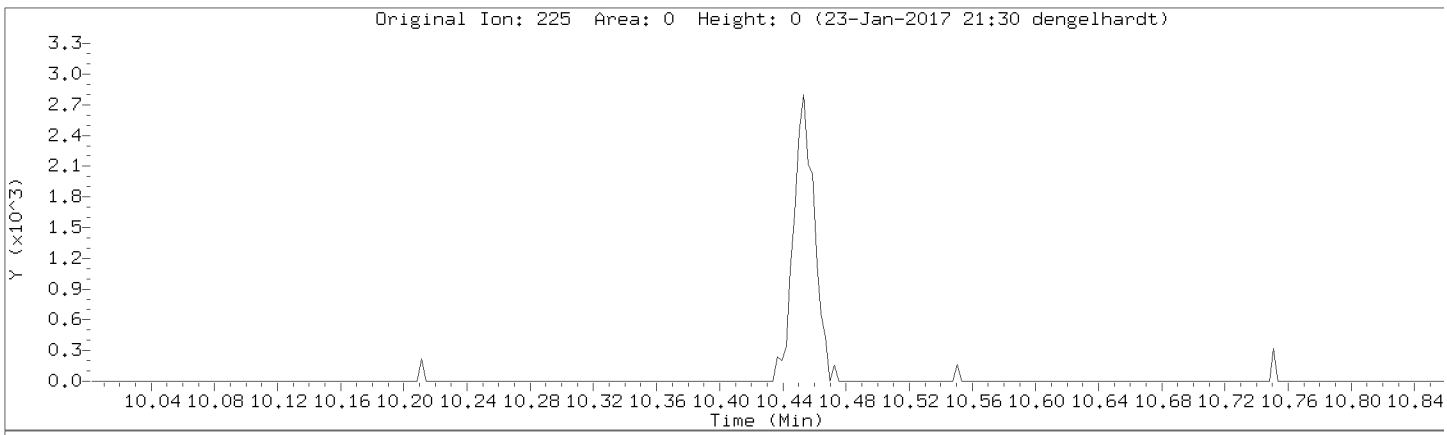


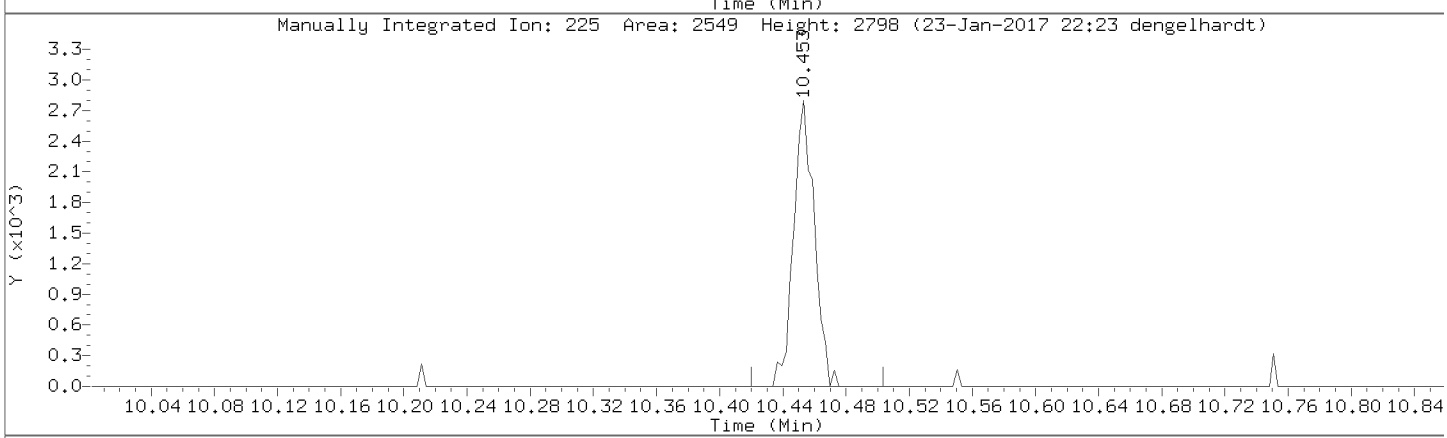


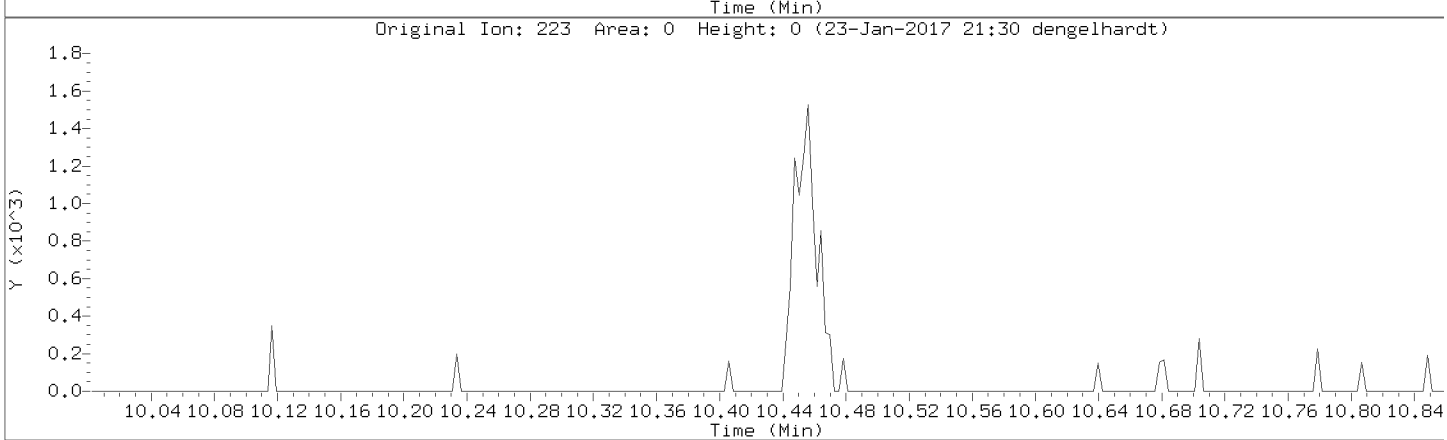


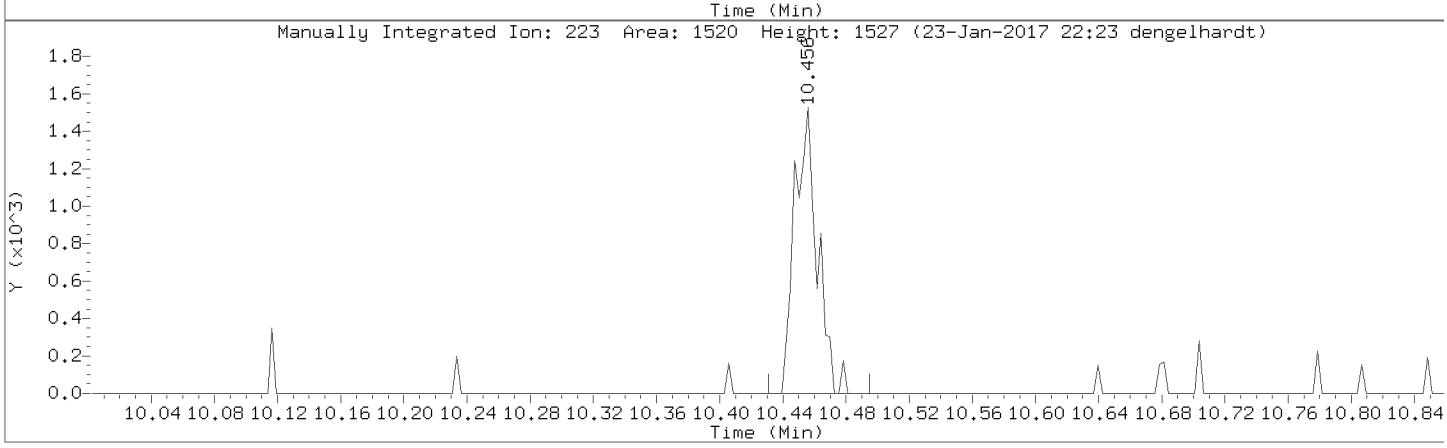
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b03cal3.d
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3

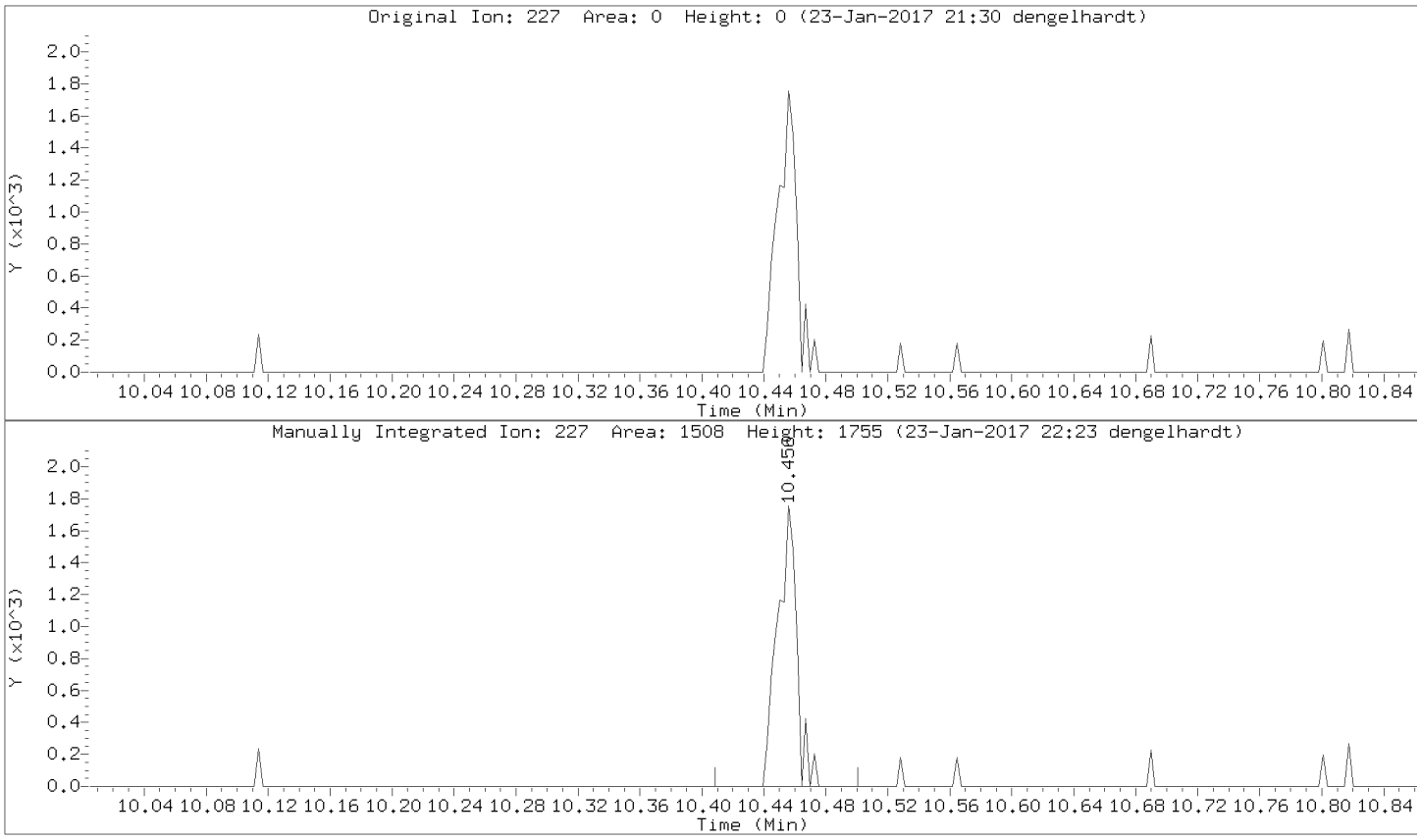








Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b03cal3.d
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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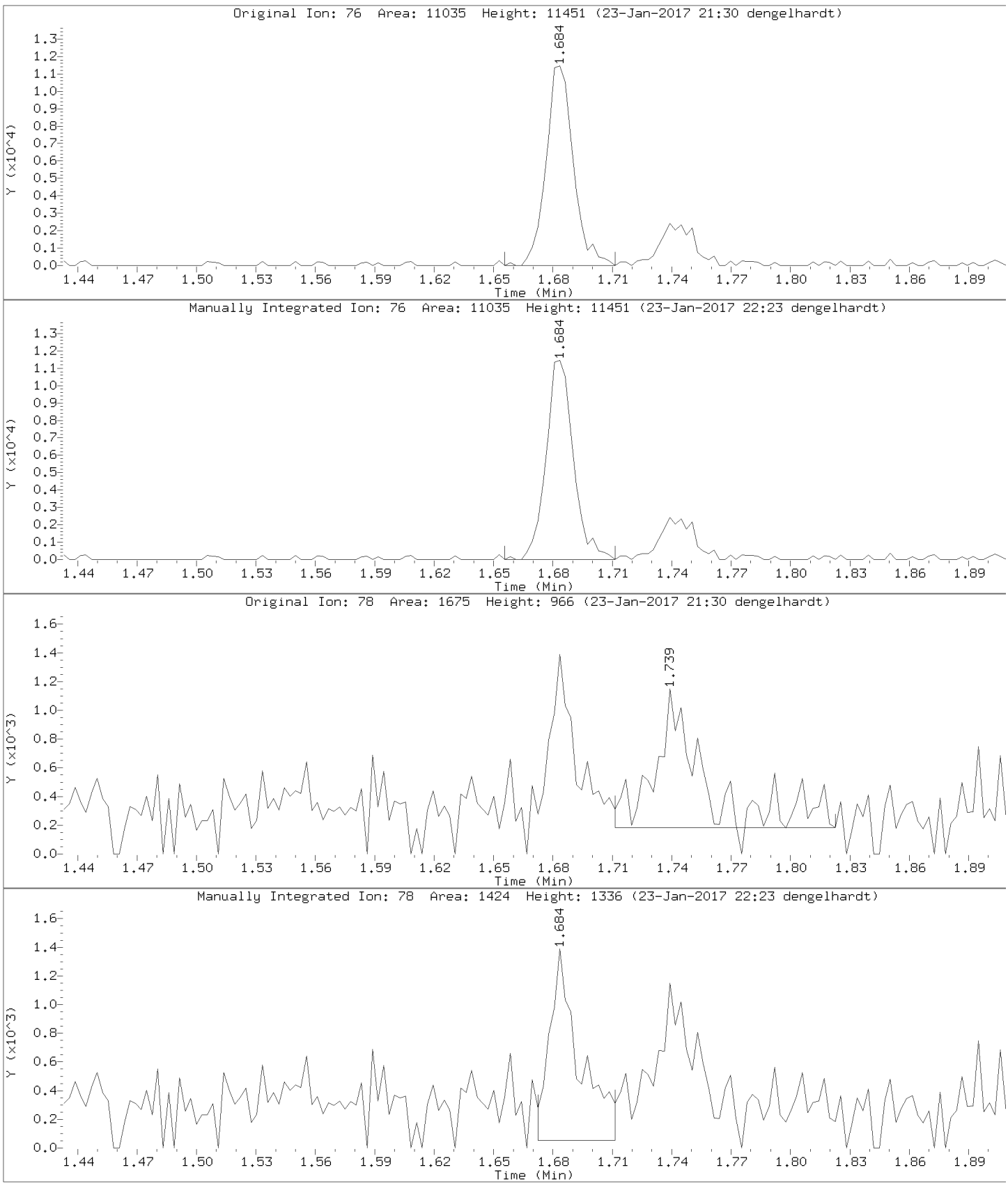
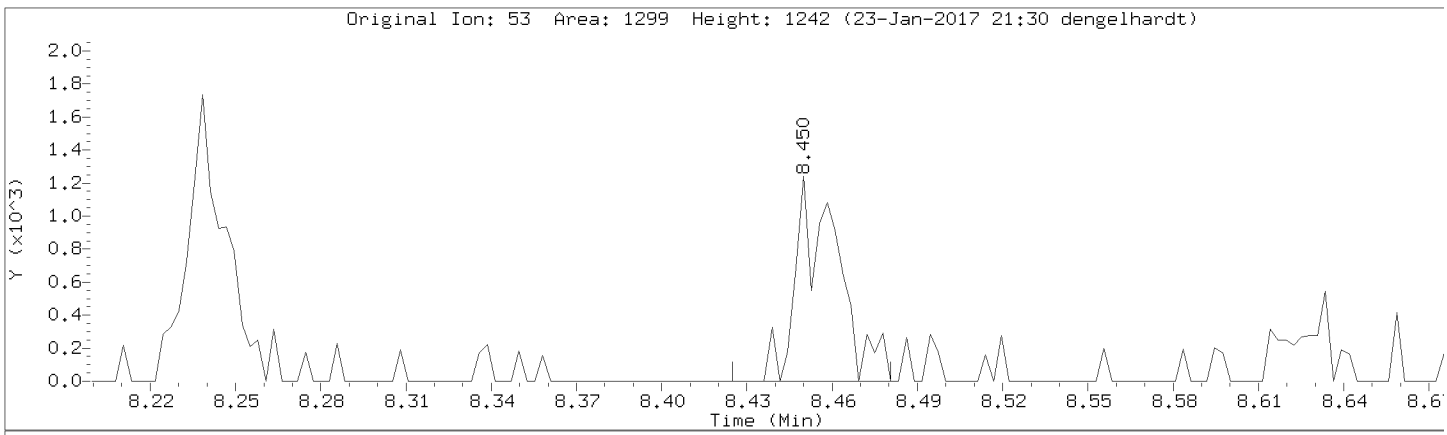
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

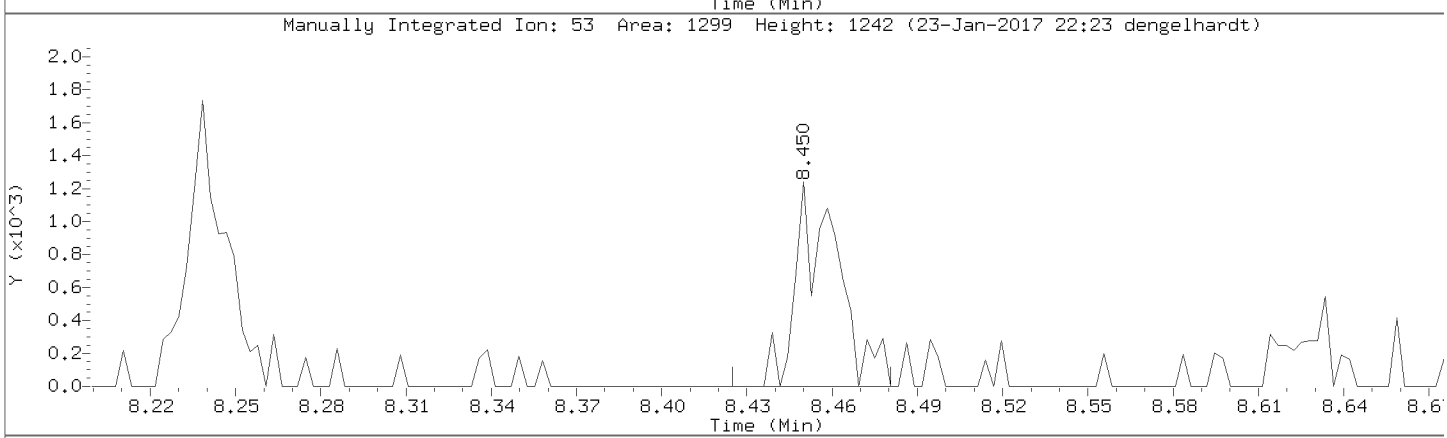
Compound: Carbon Disulfide Review Code: WP
CAS Number: 75-15-0

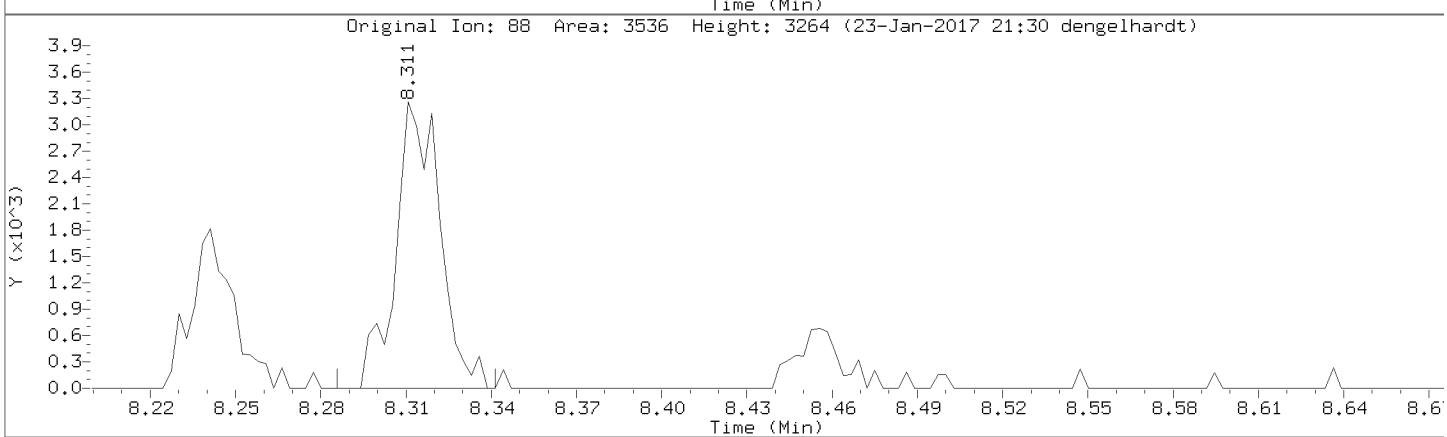


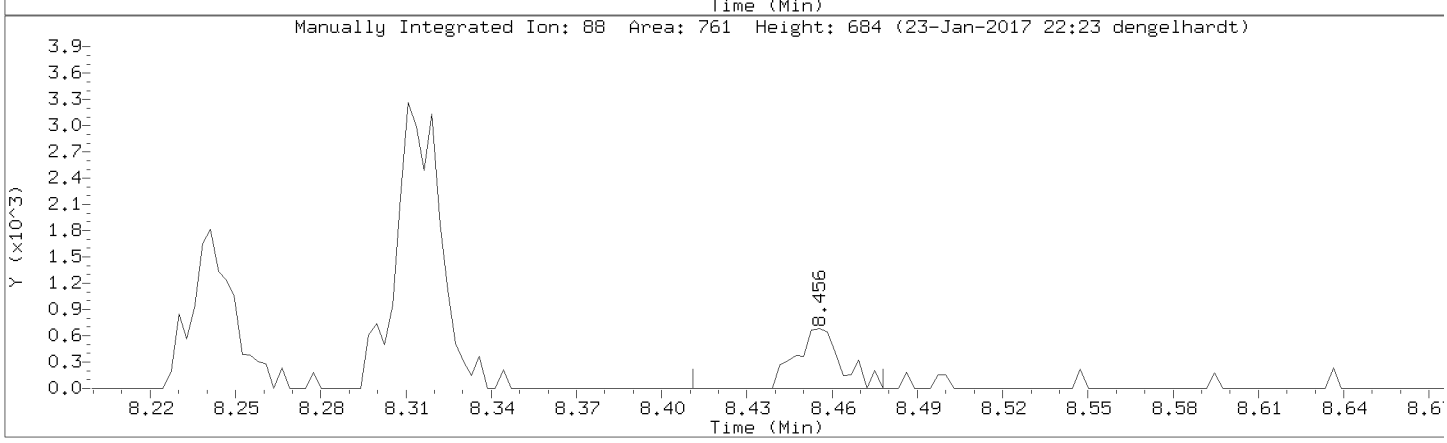
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b03cal3.d
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:









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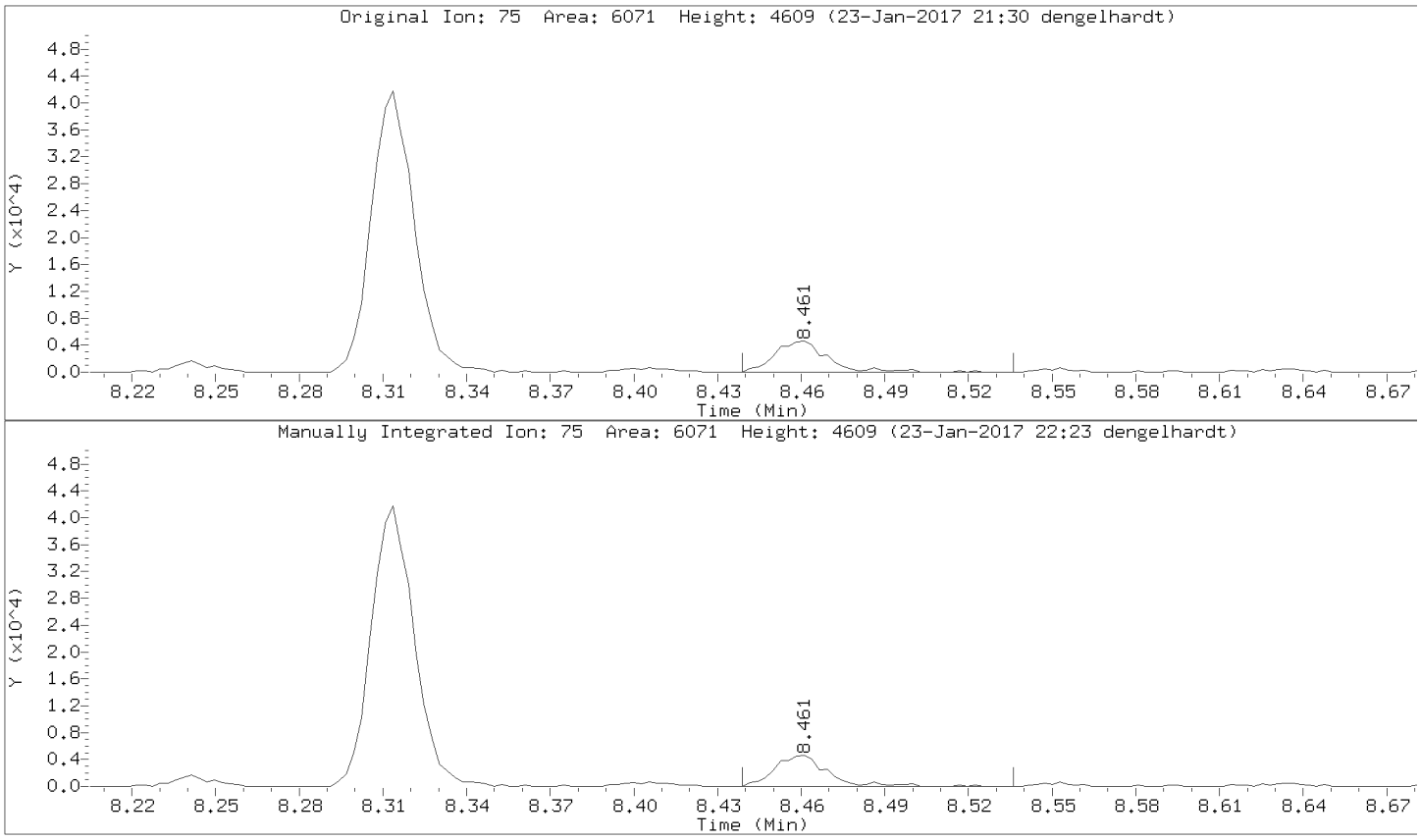
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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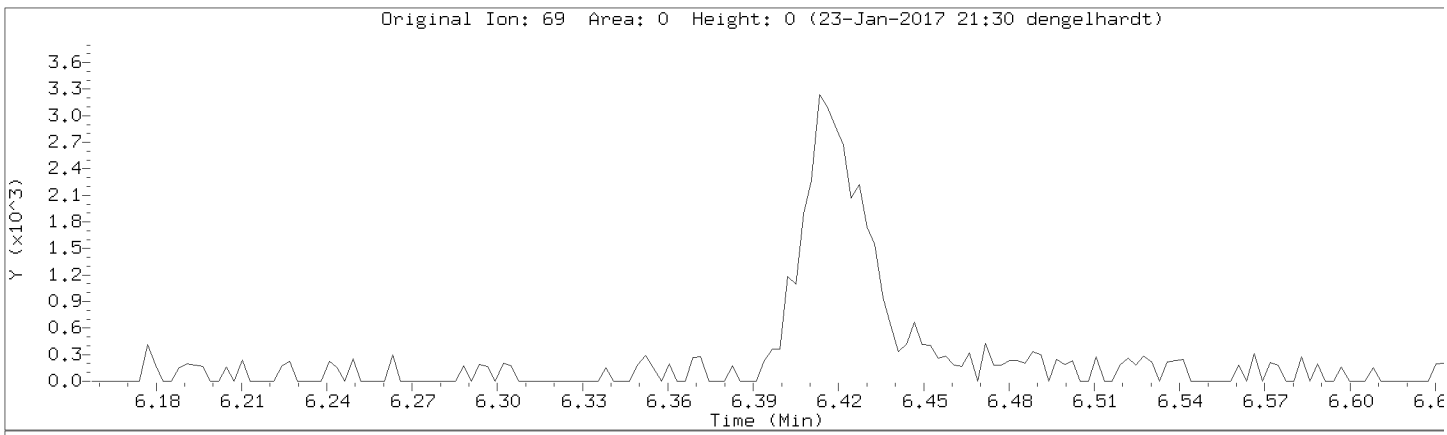
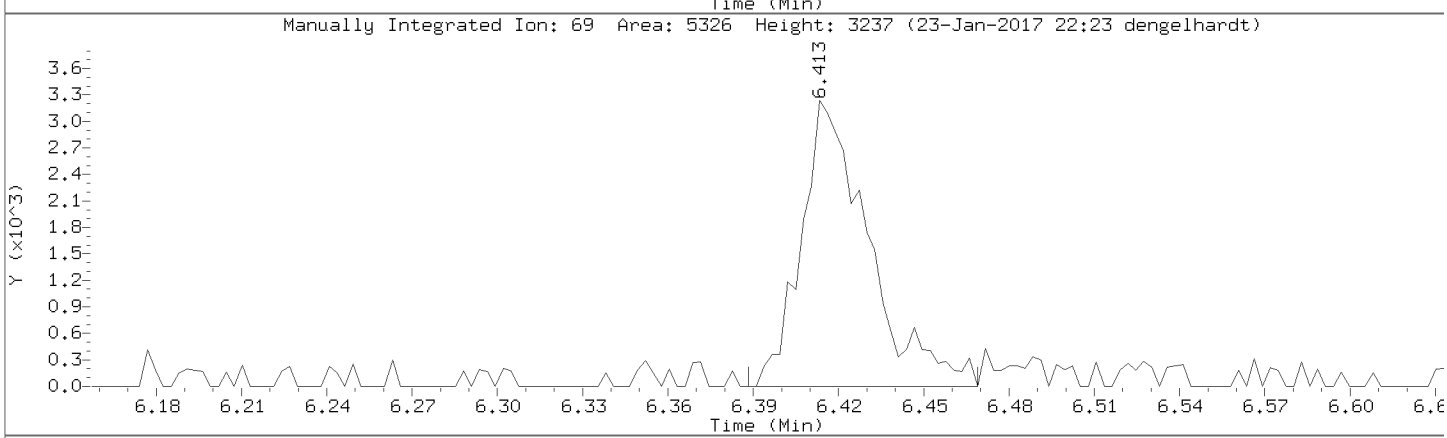
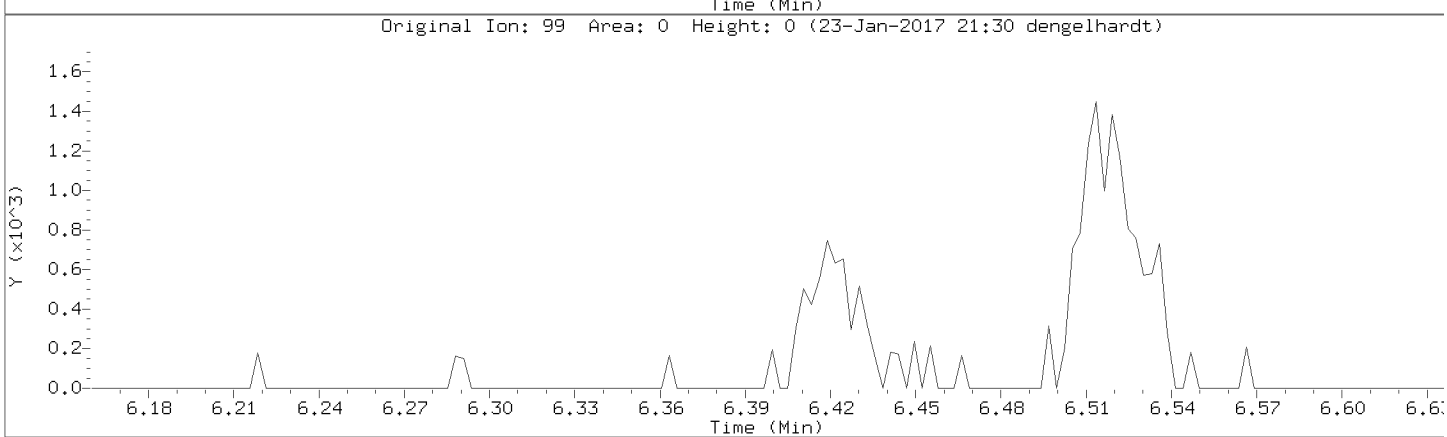
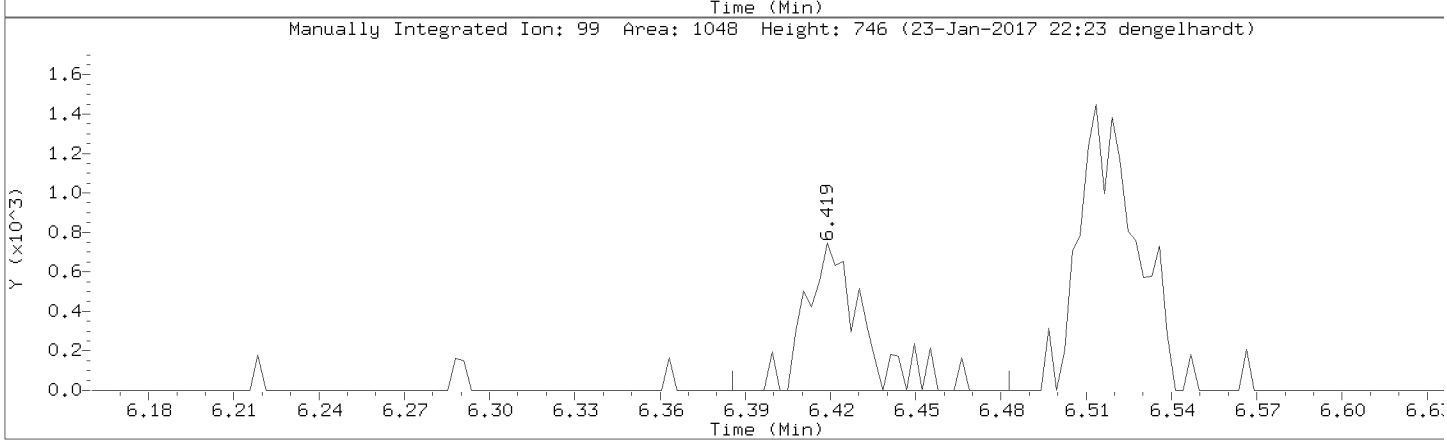
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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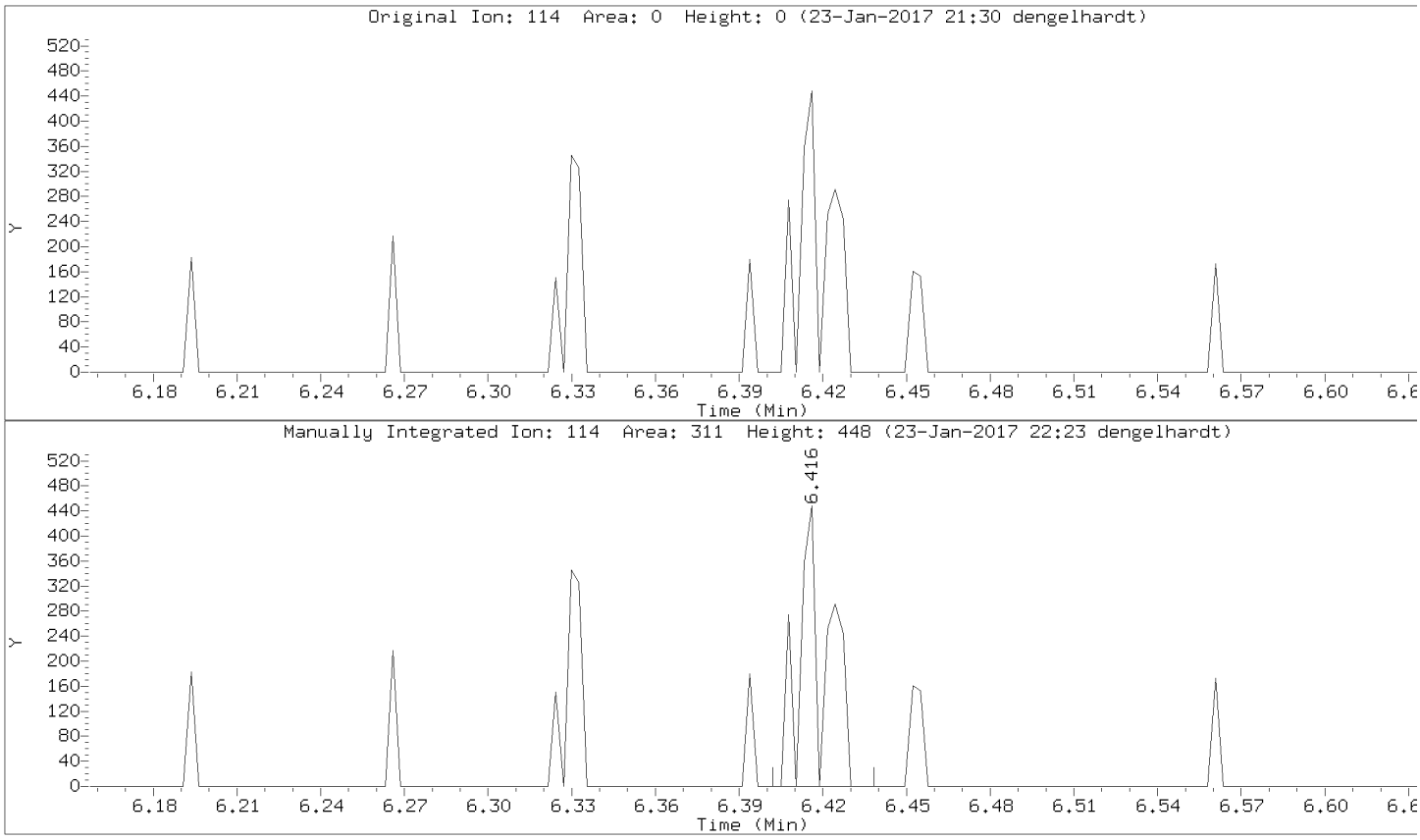
Lab Sample ID: 8260-CAL3



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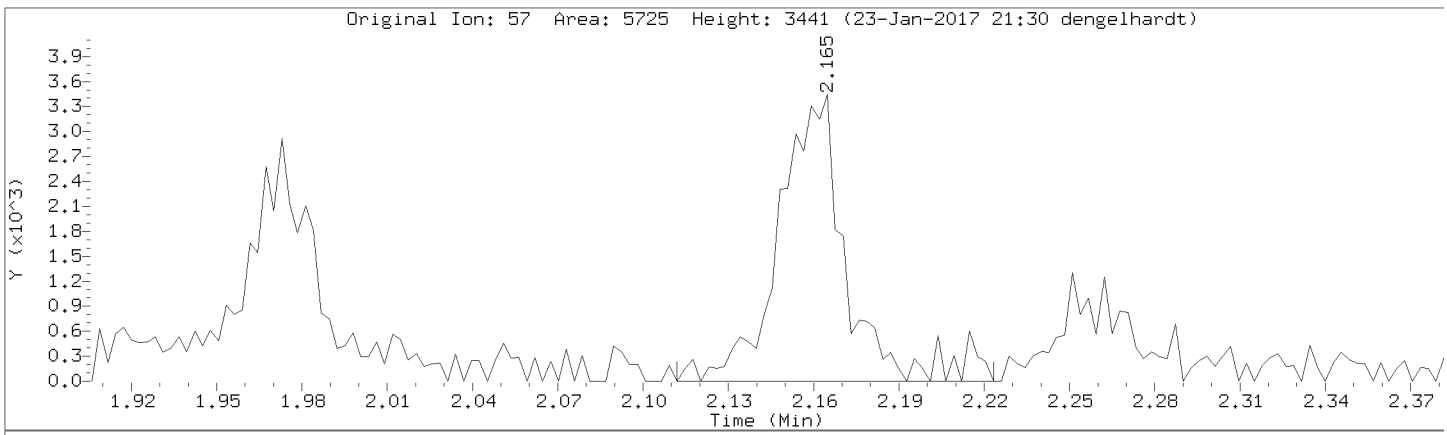
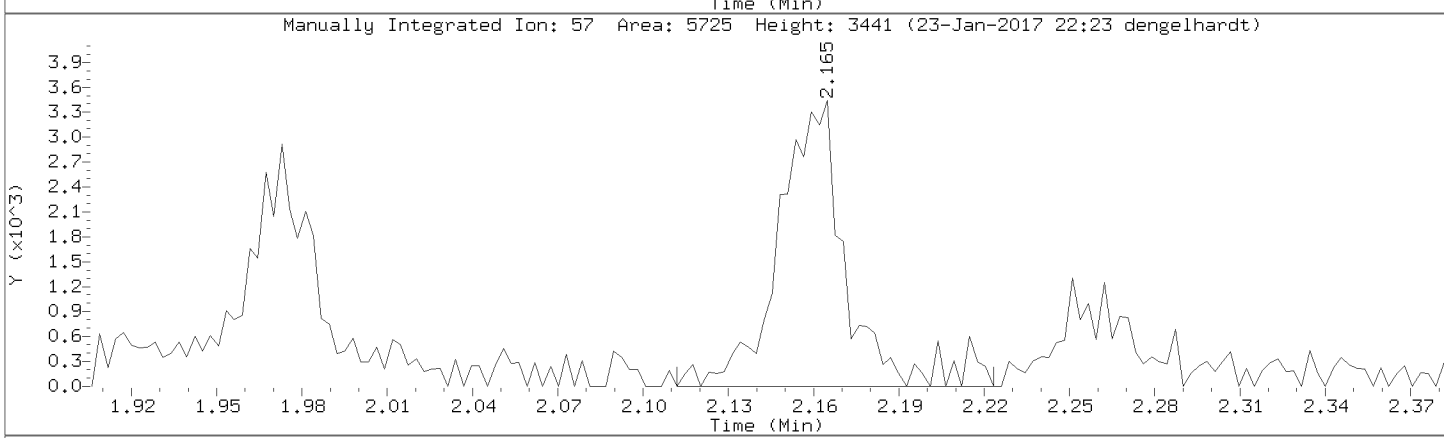
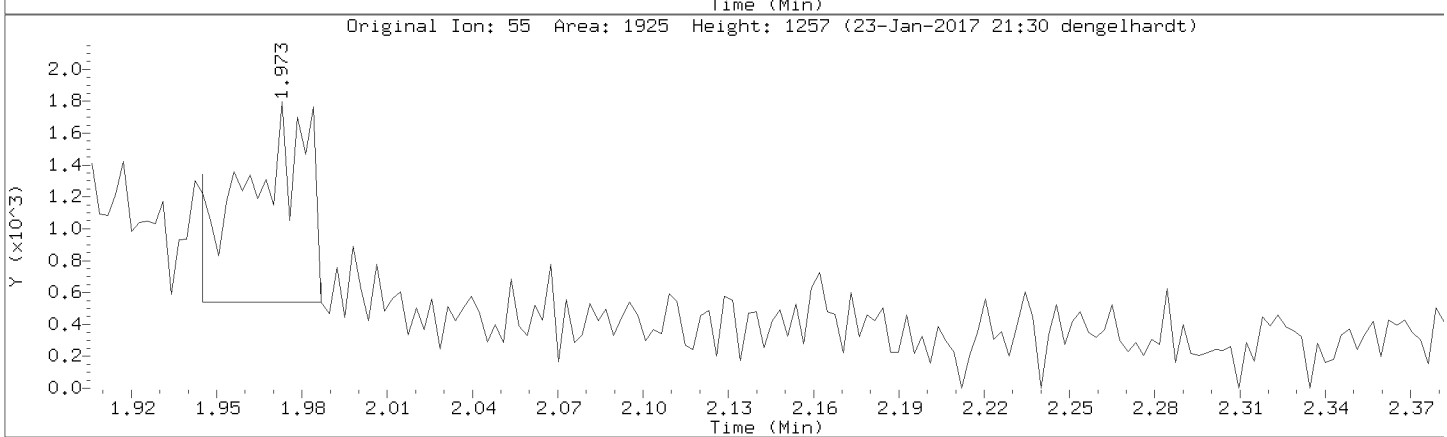
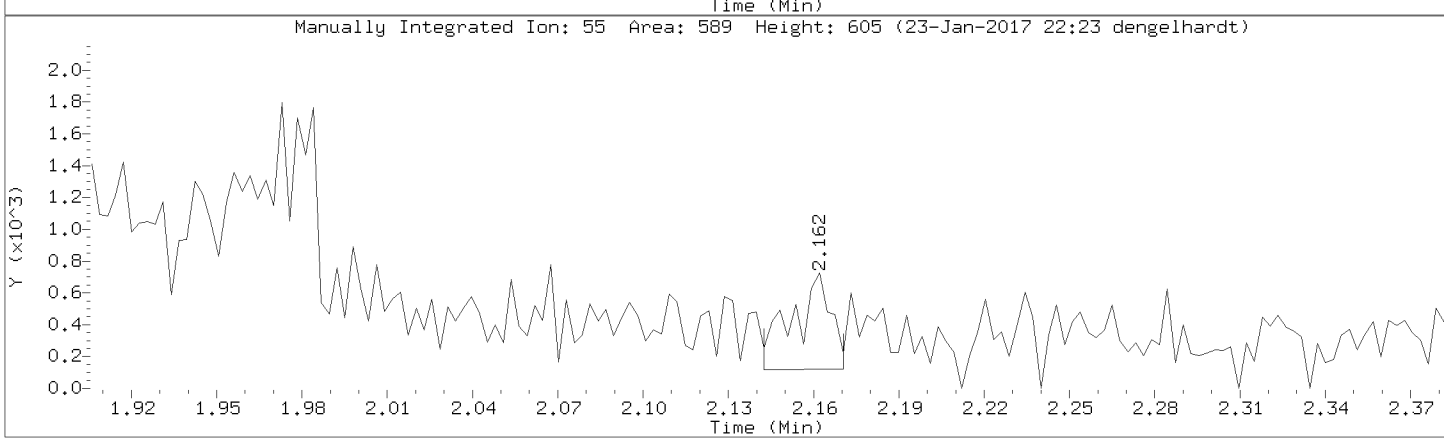
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: n-Hexane Review Code: LT
CAS Number:









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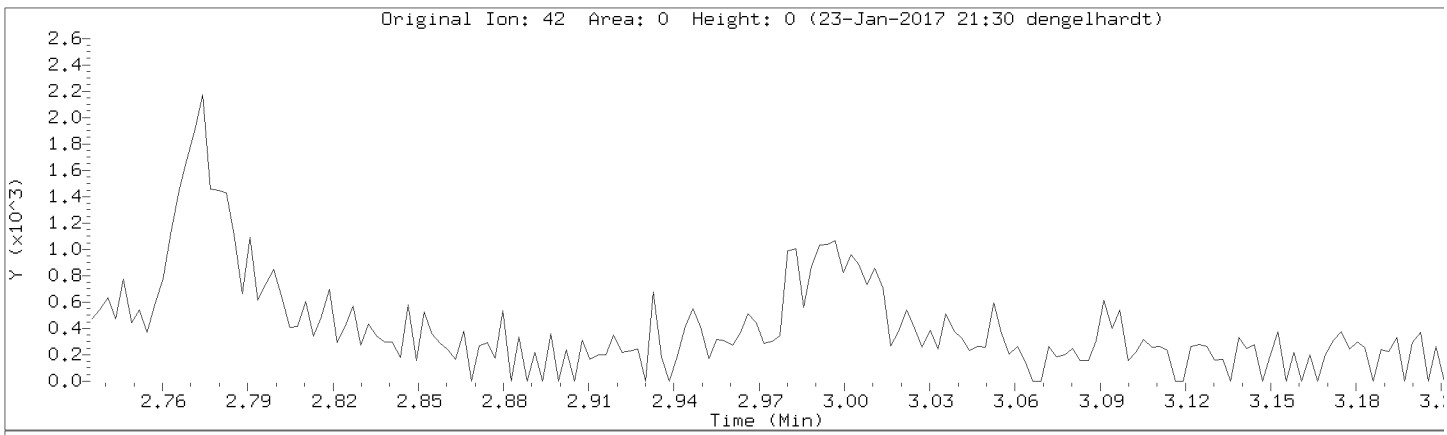
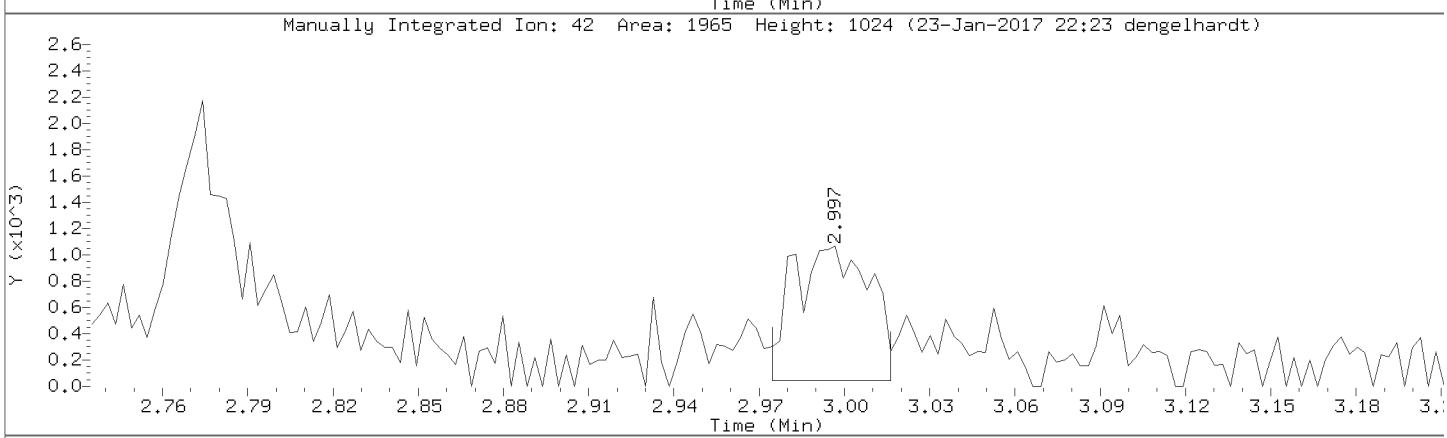
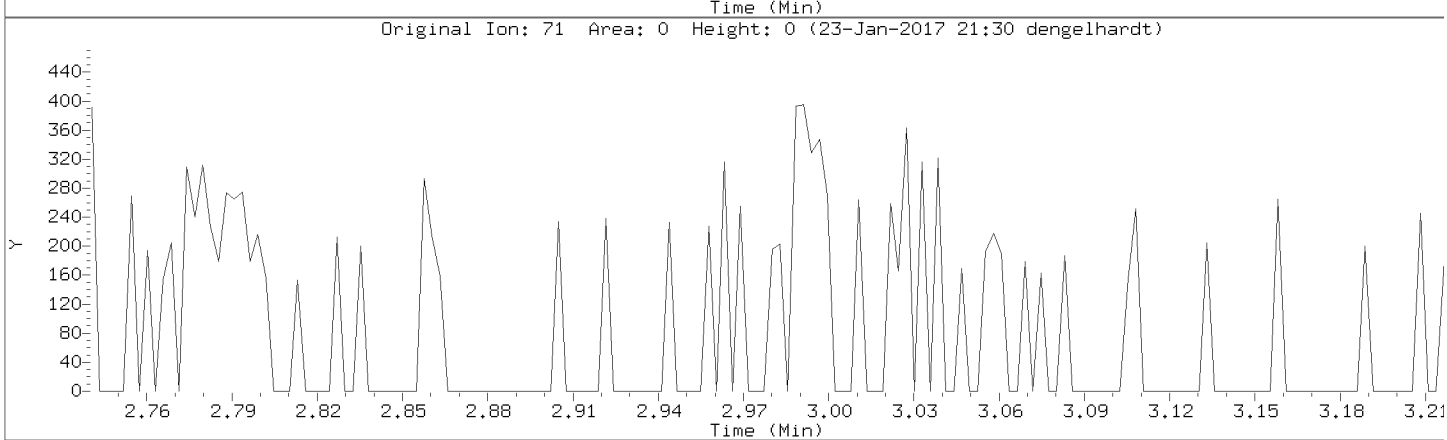
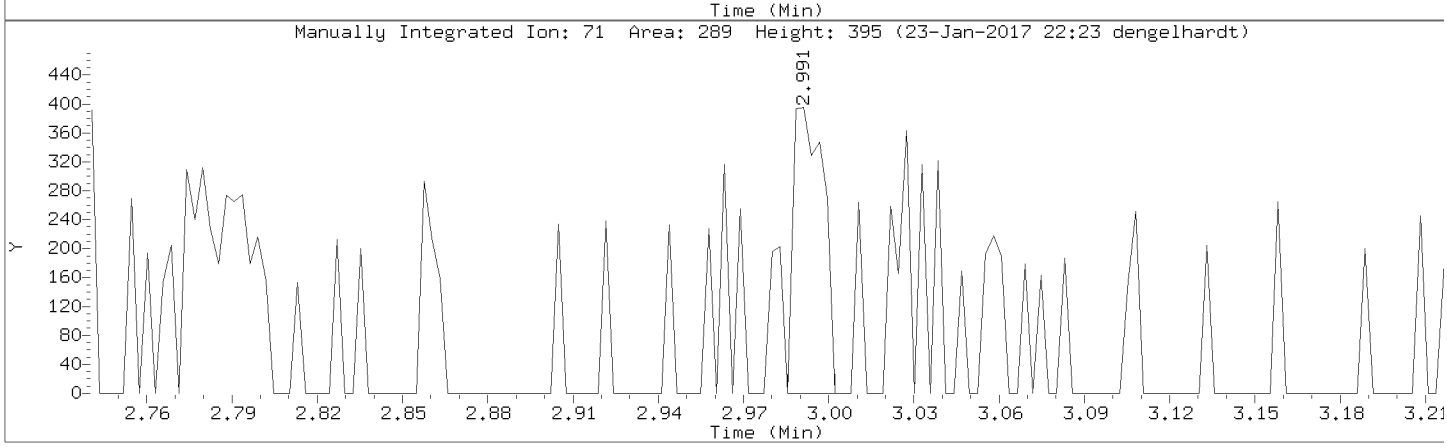
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Tetrahydrofuran Review Code: LT
CAS Number:









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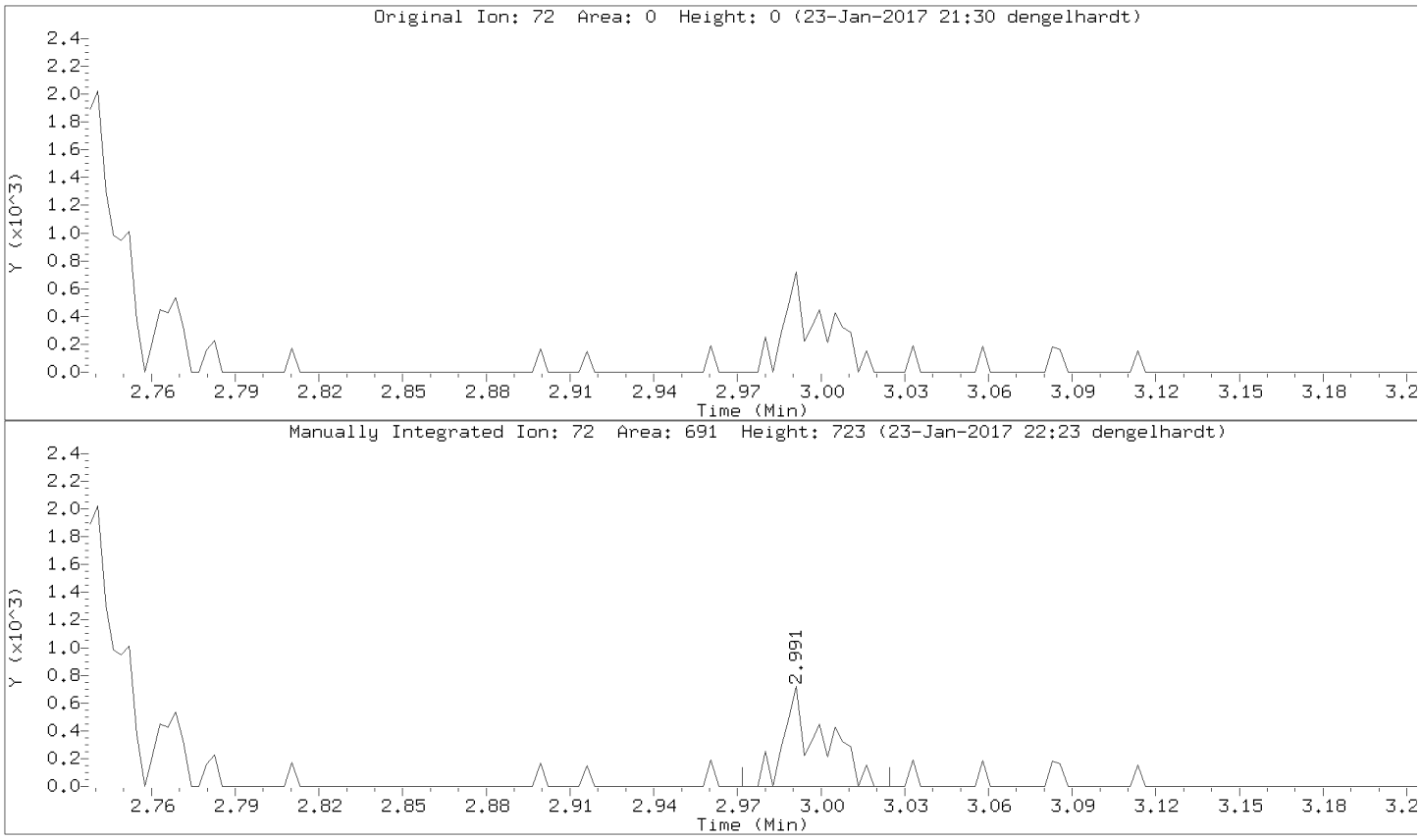
Lab Sample ID: 8260-CAL3



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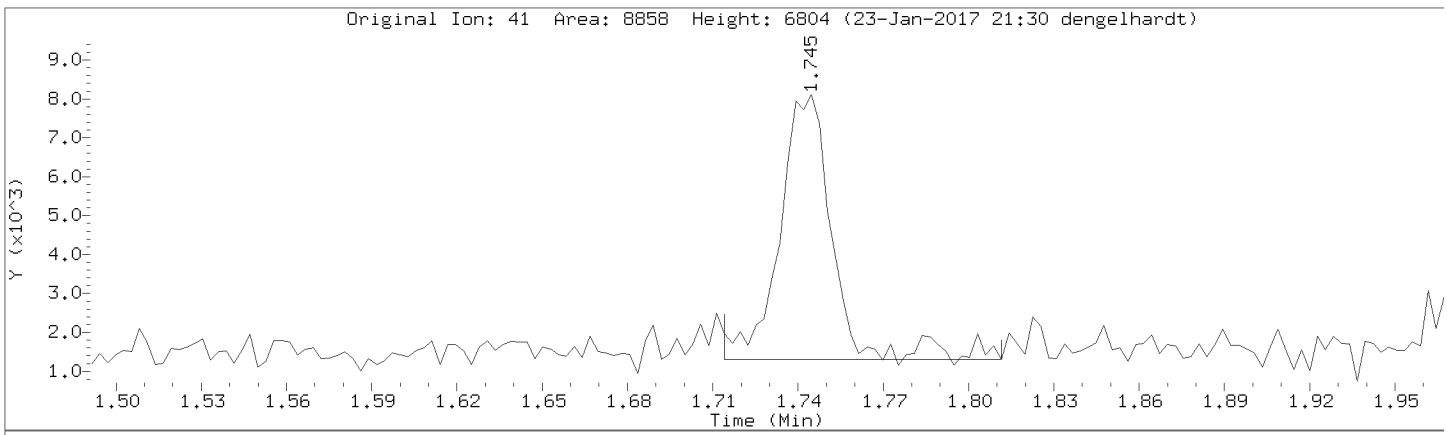
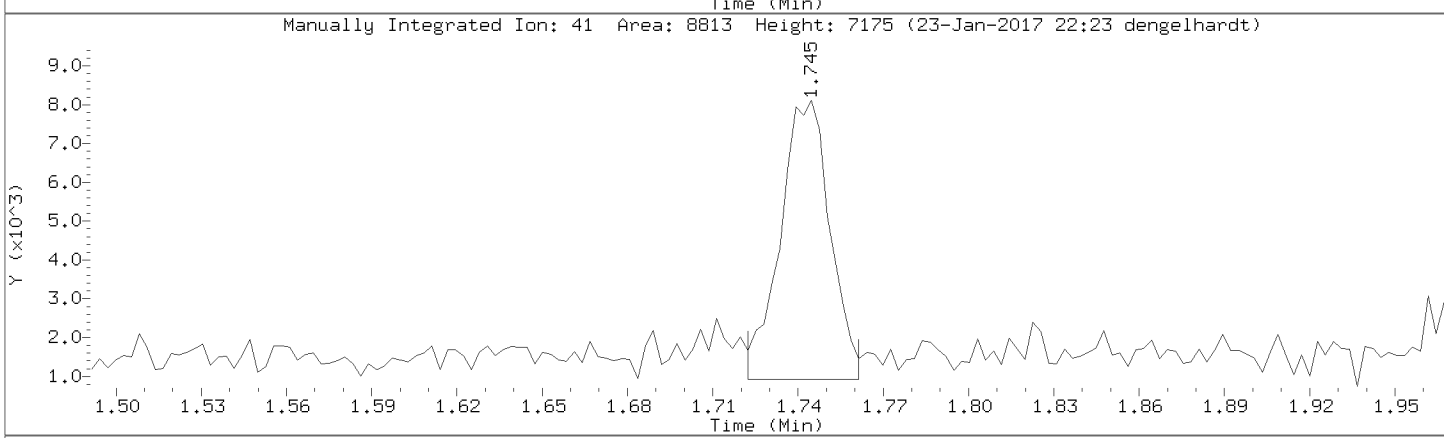
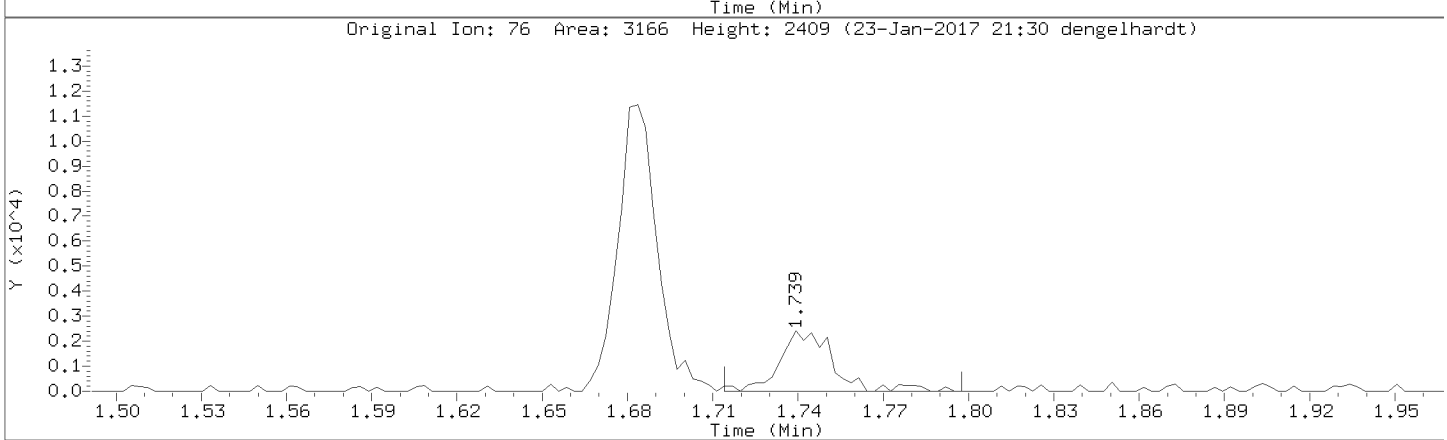
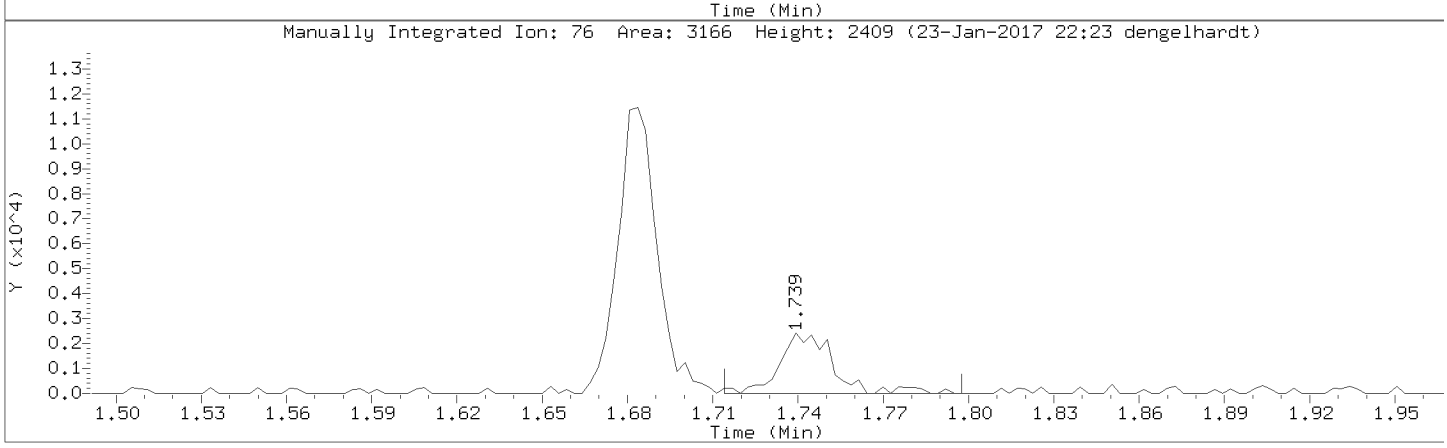
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: allyl chloride Review Code: LT
CAS Number: 107-05-1









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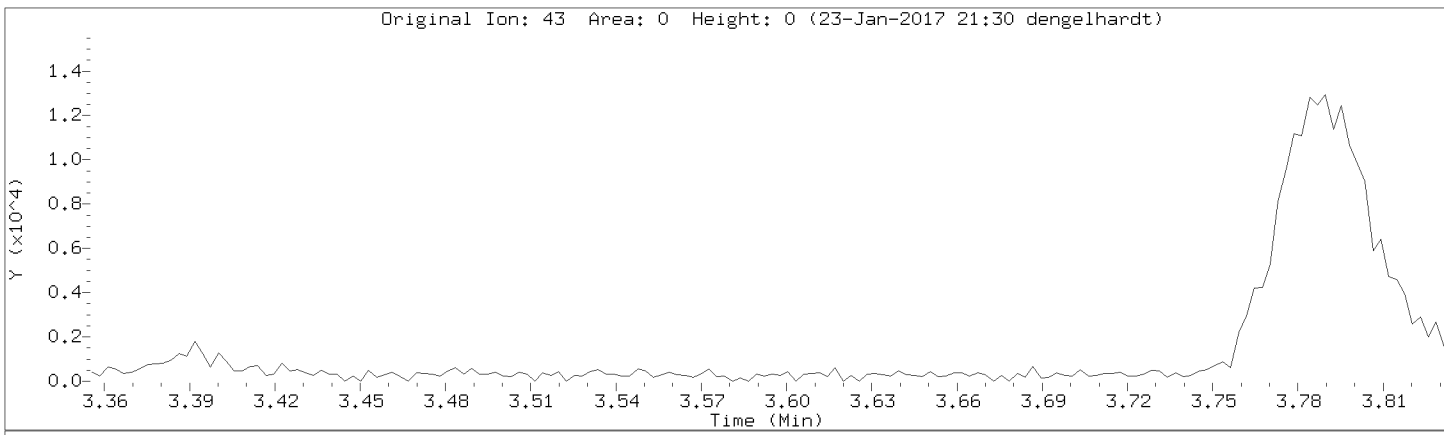
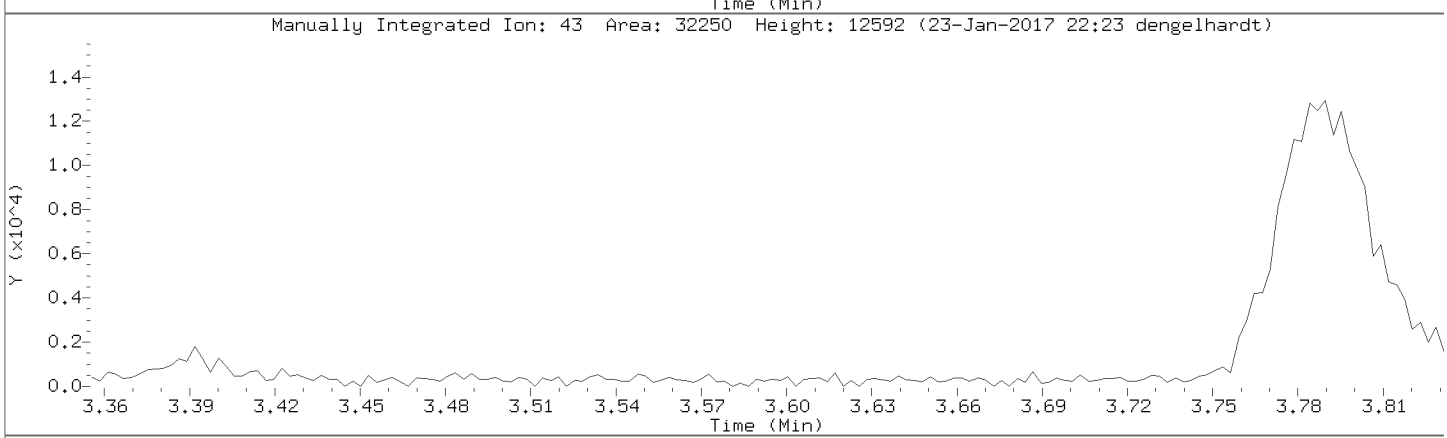
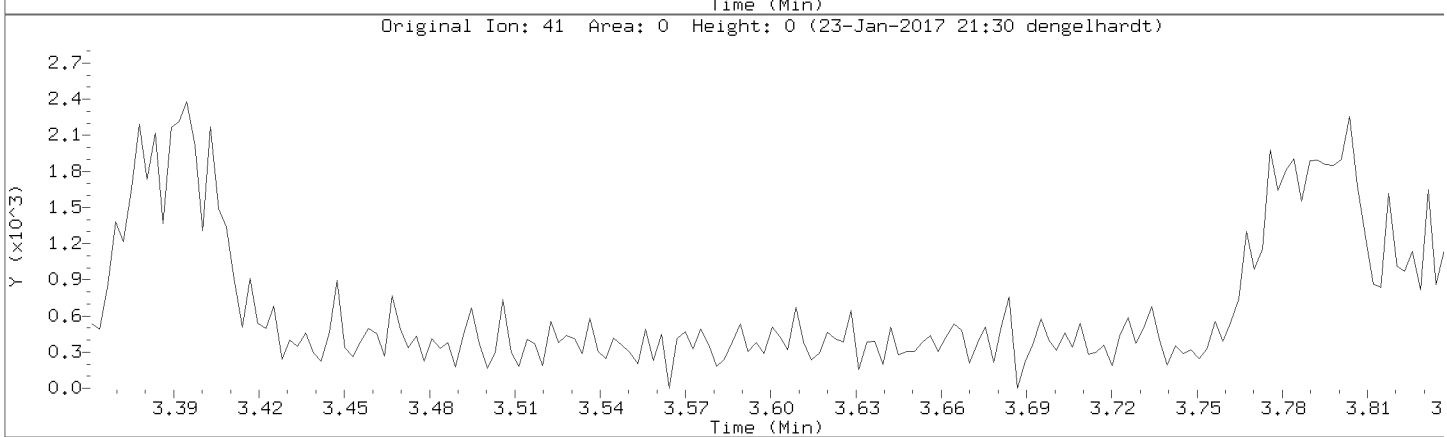
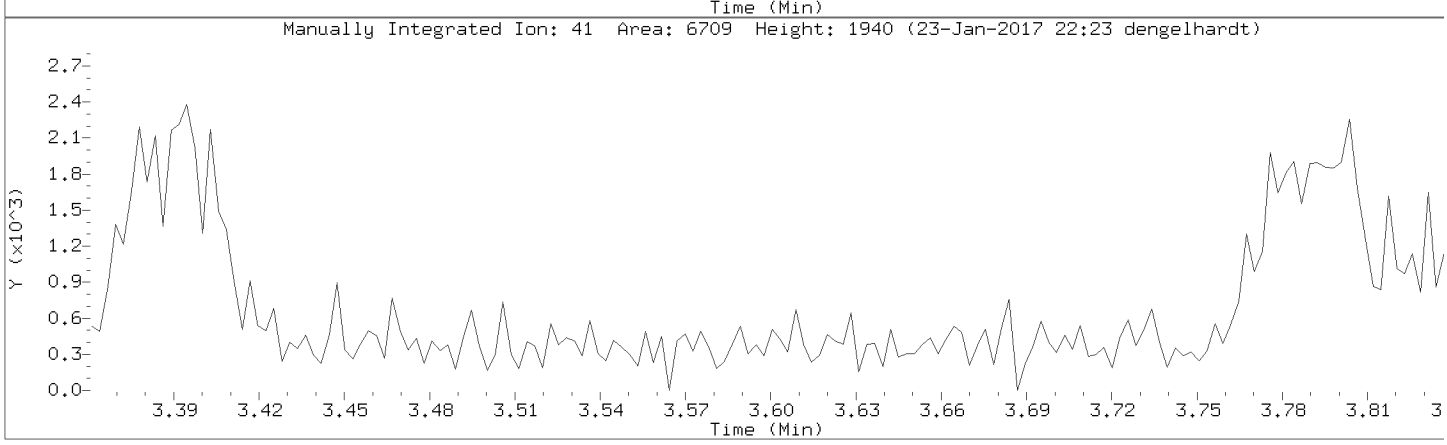
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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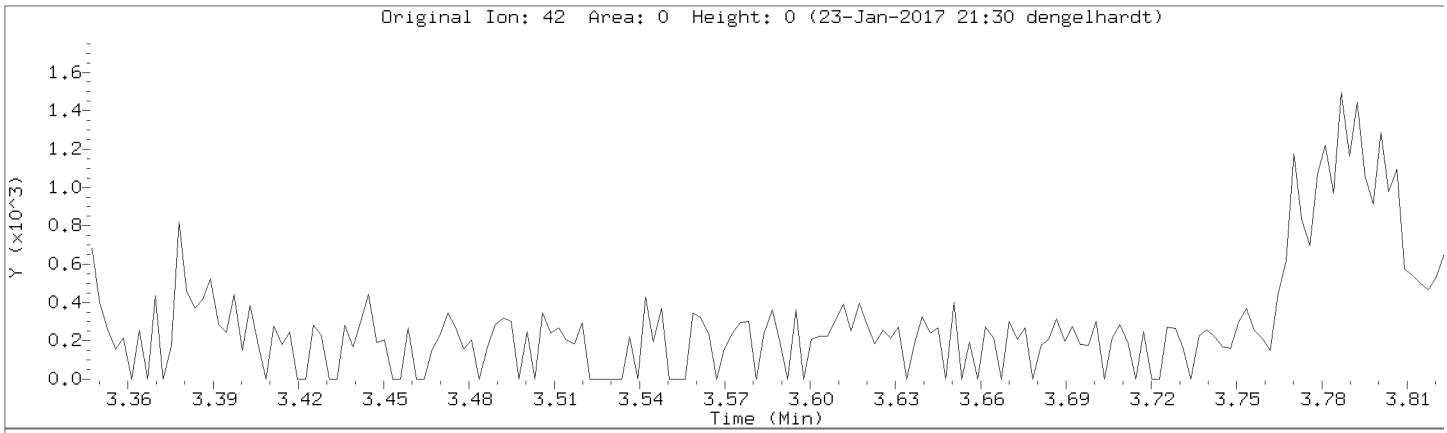
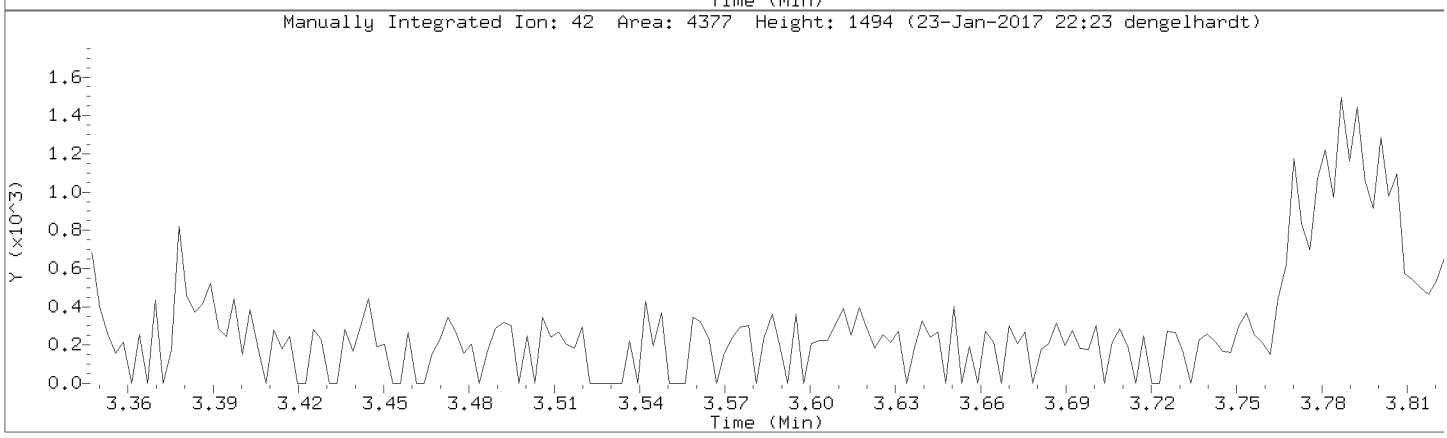
Lab Sample ID: 8260-CAL3





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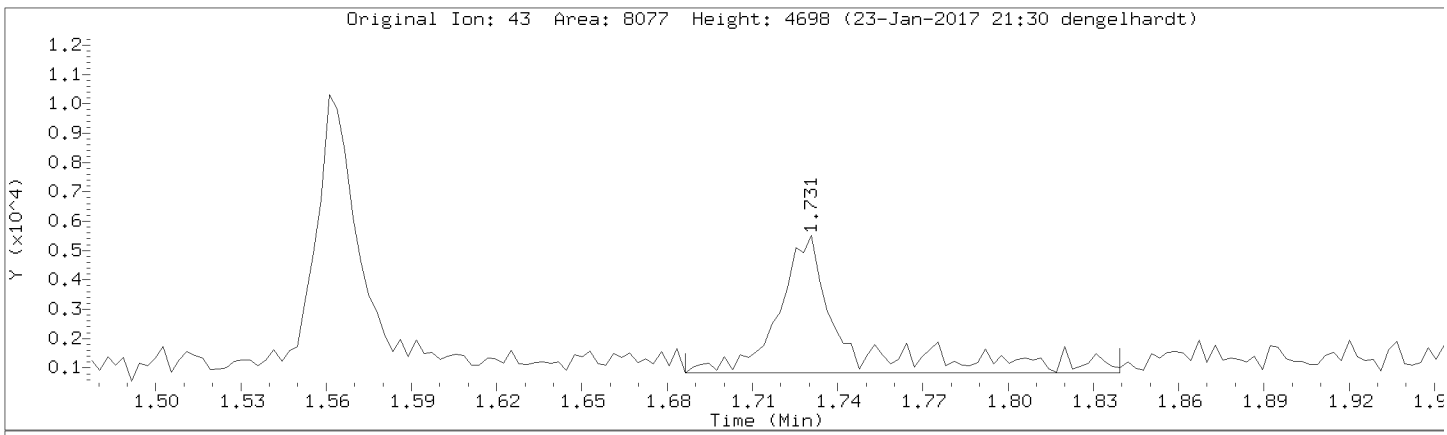
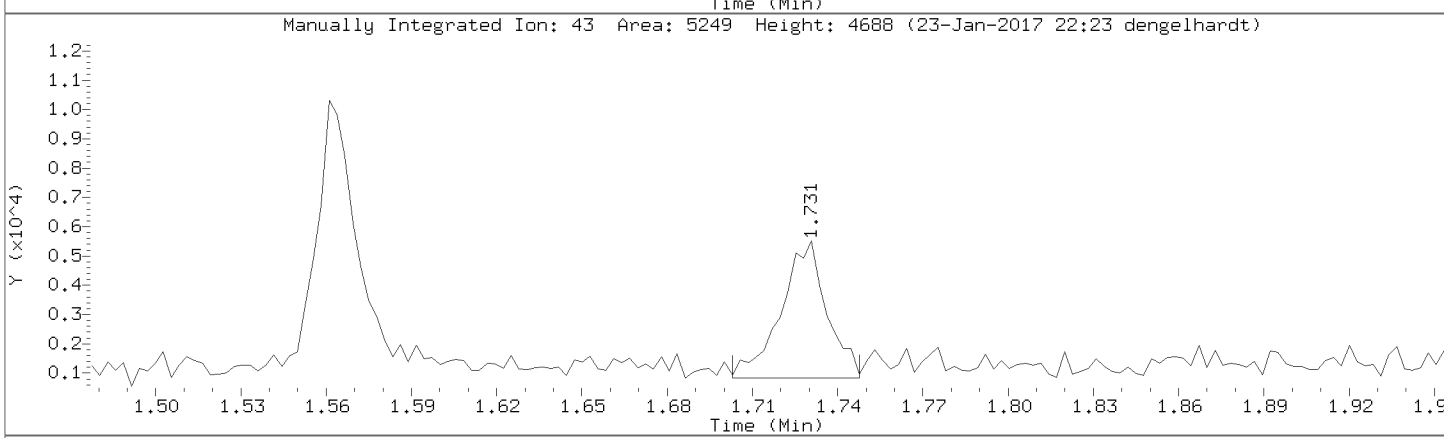
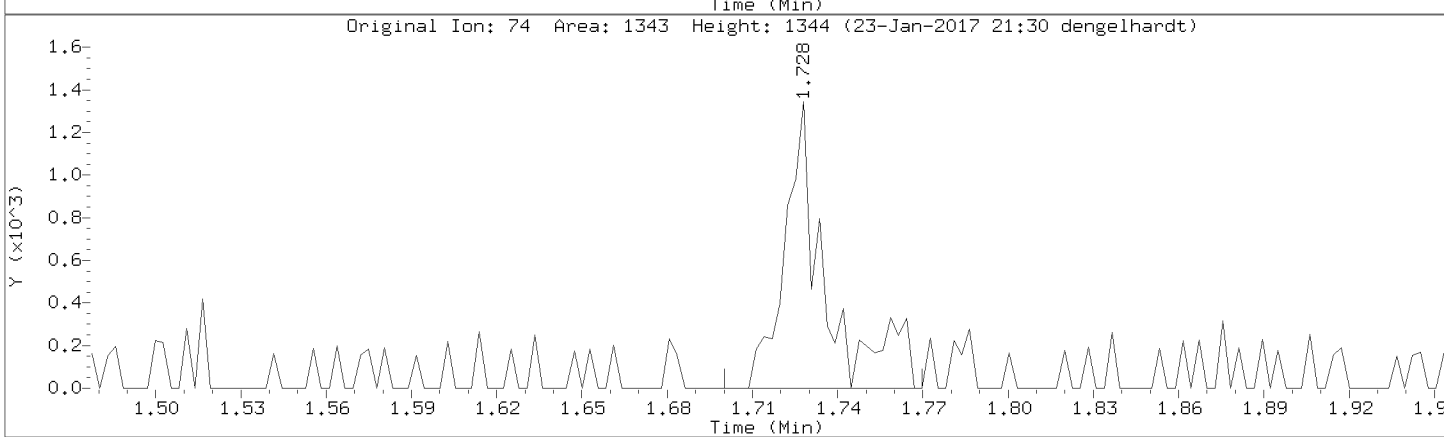
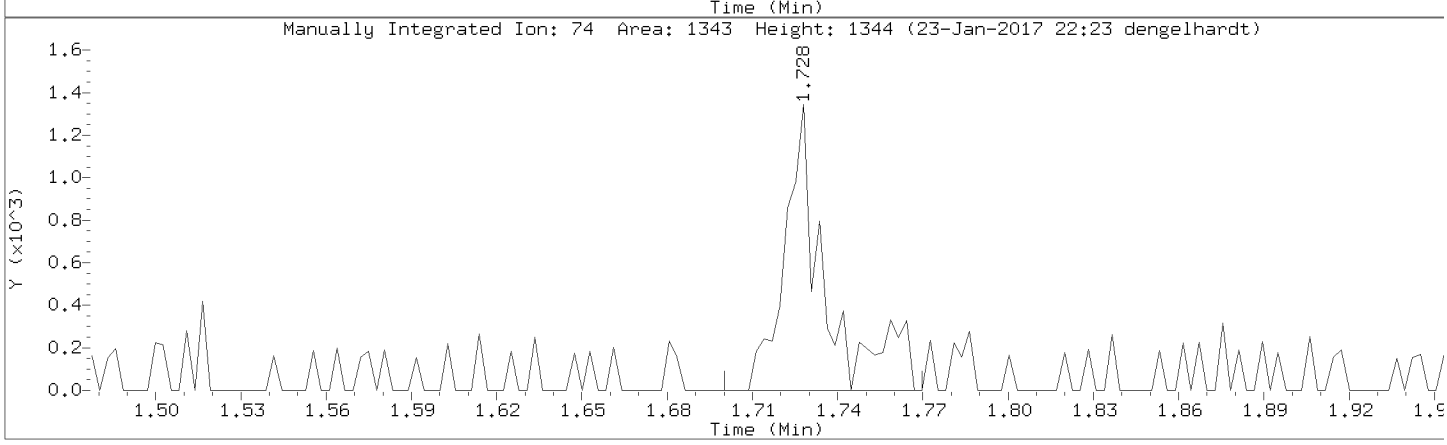
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Methyl Acetate Review Code: LT
CAS Number: 79-20-9









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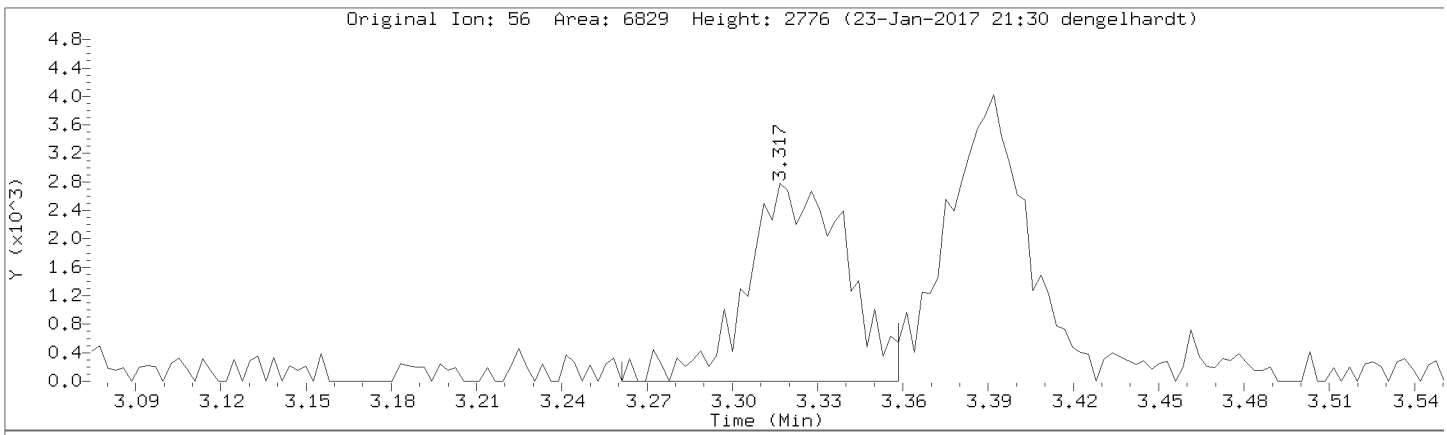
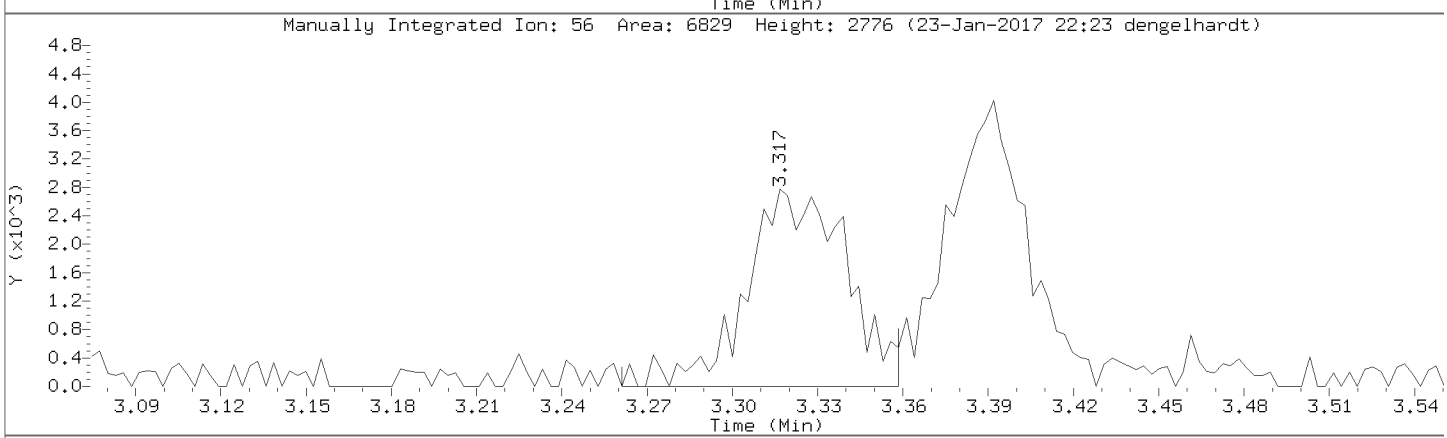
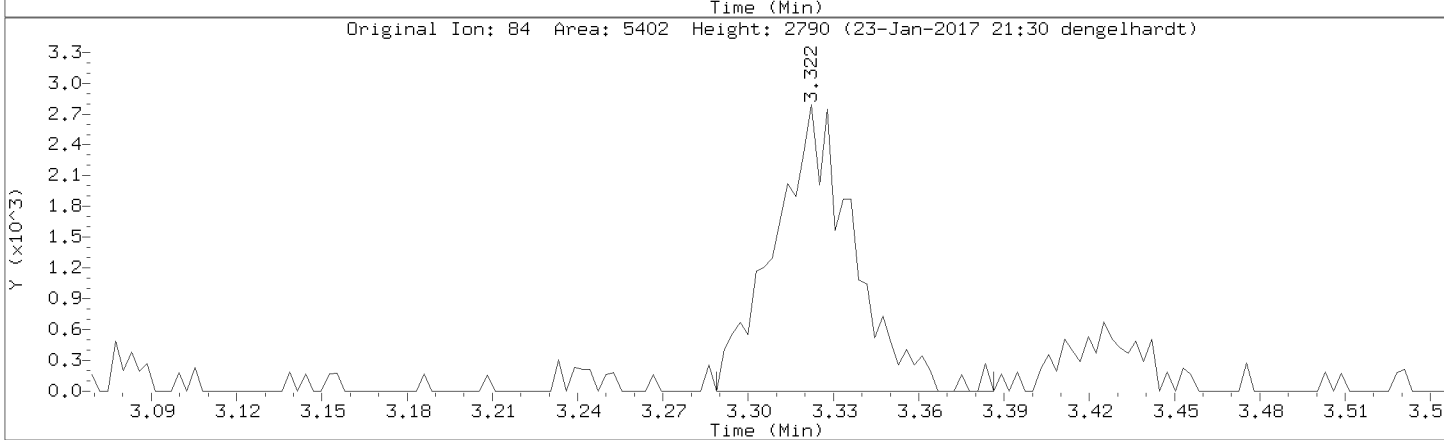
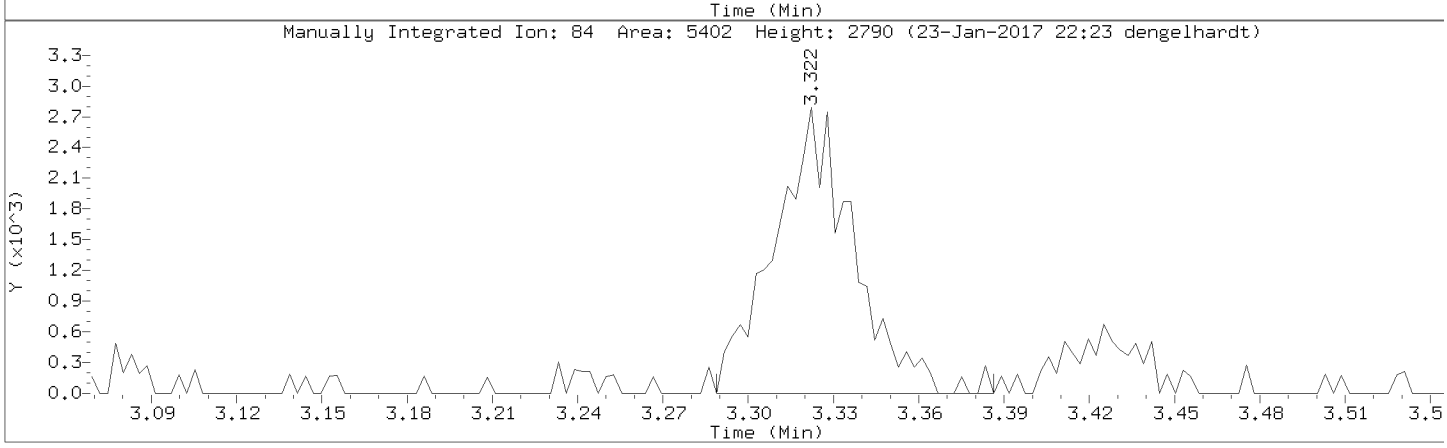
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: cyclohexane Review Code: LT
CAS Number: 110-82-7









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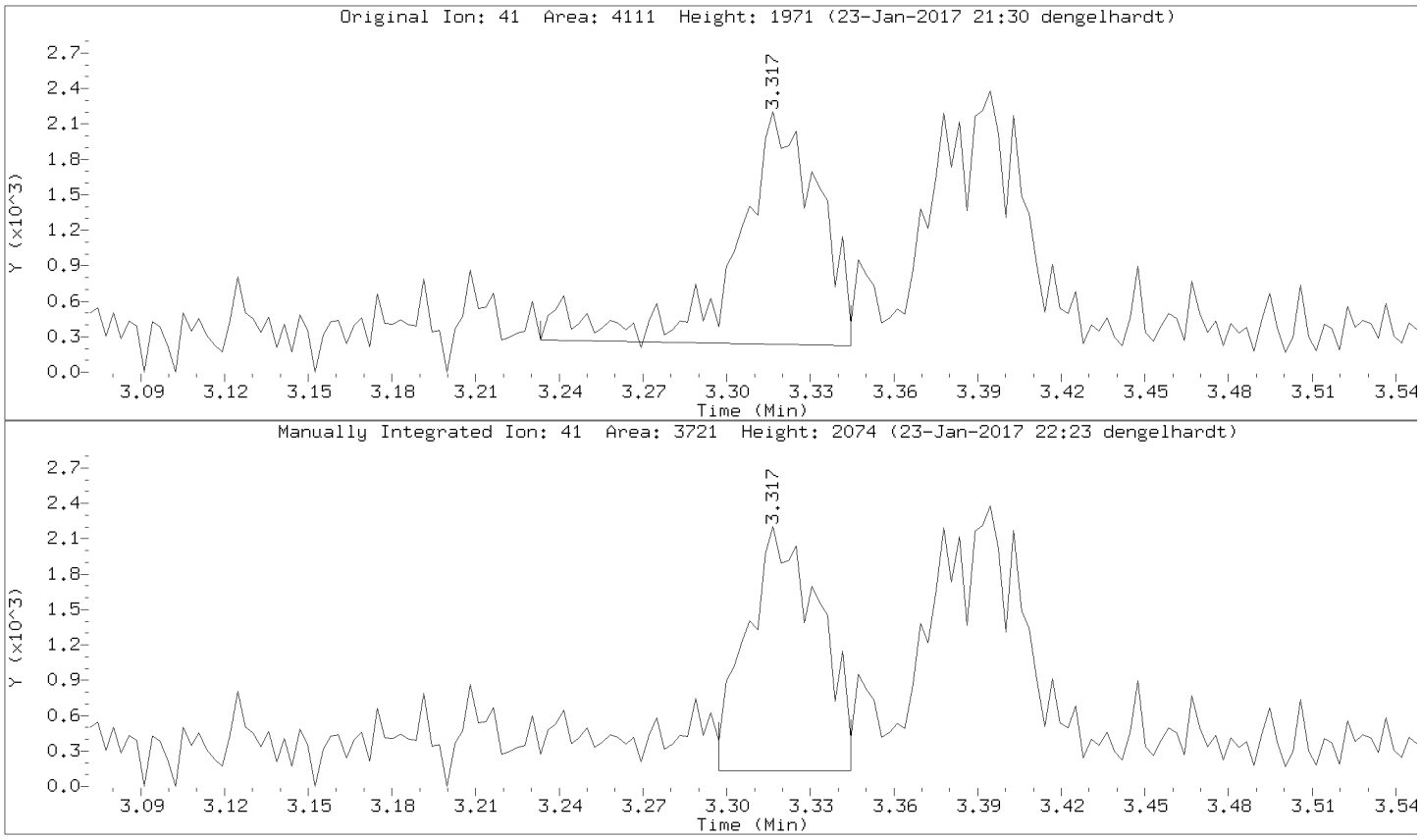
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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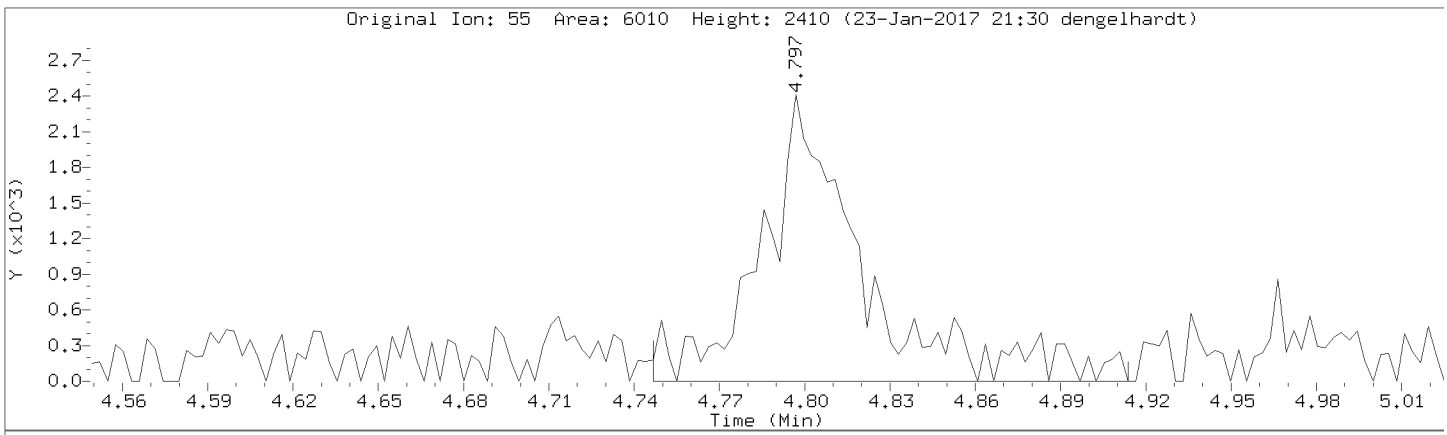
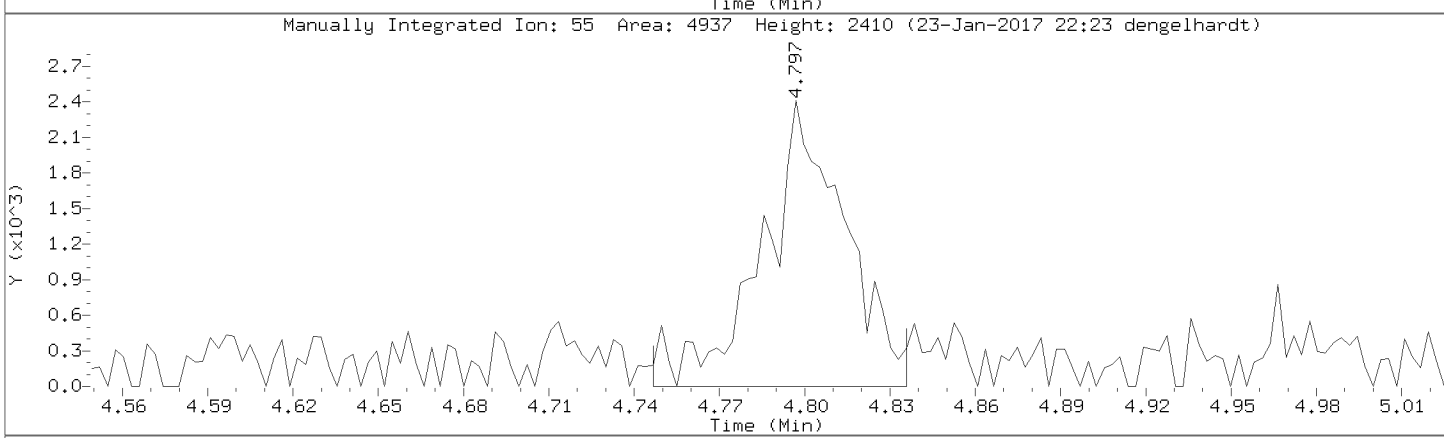
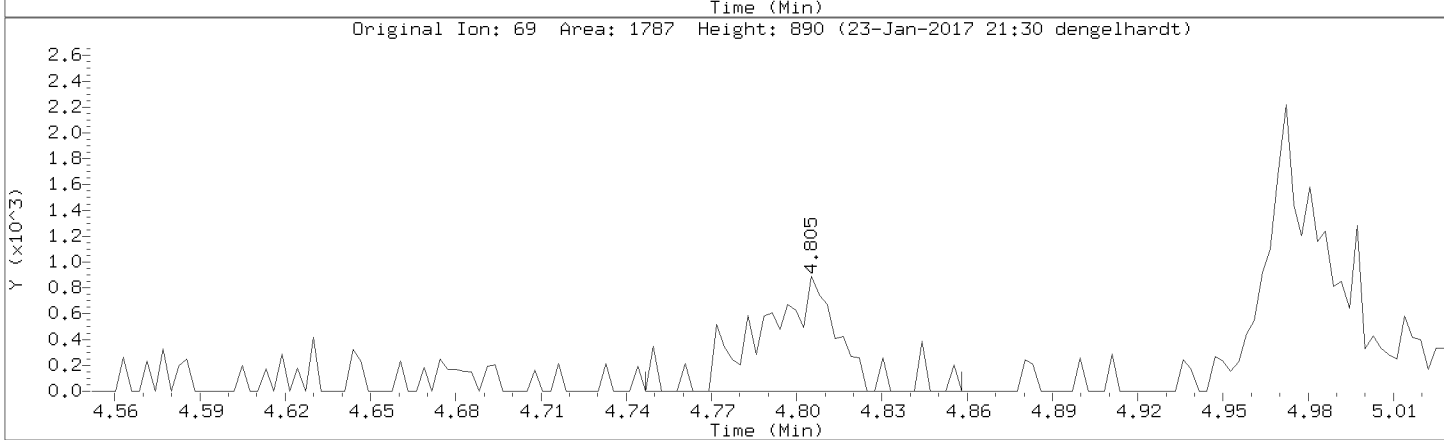
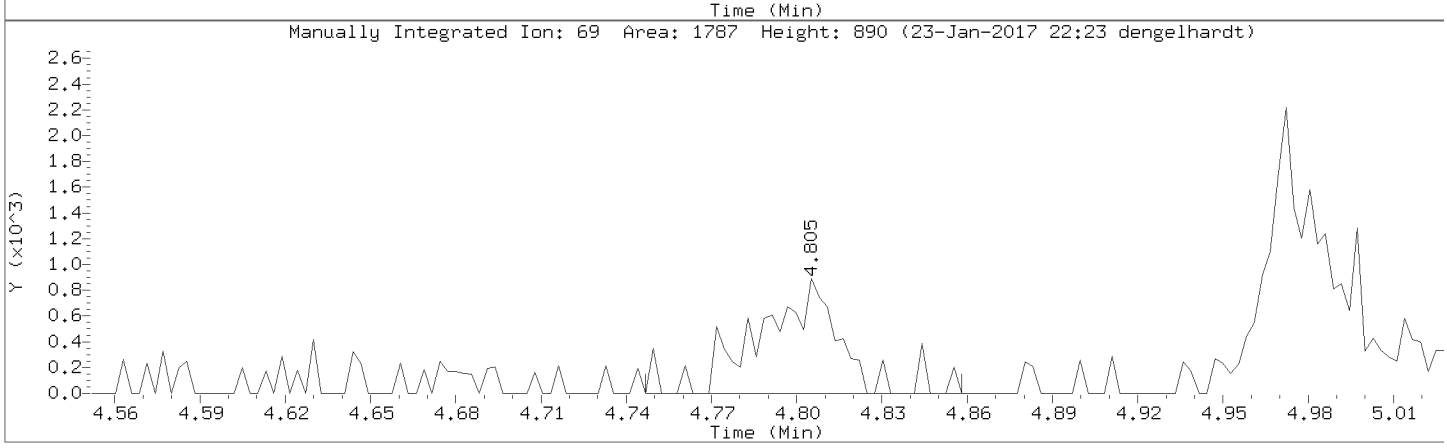
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Methylcyclohexane Review Code: WP
CAS Number: 108-87-2









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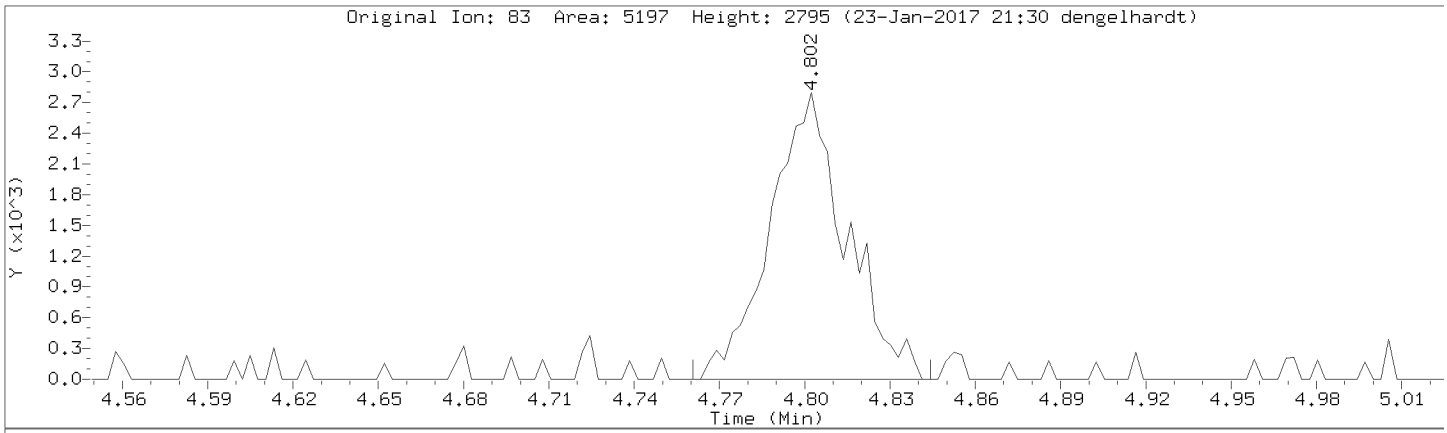
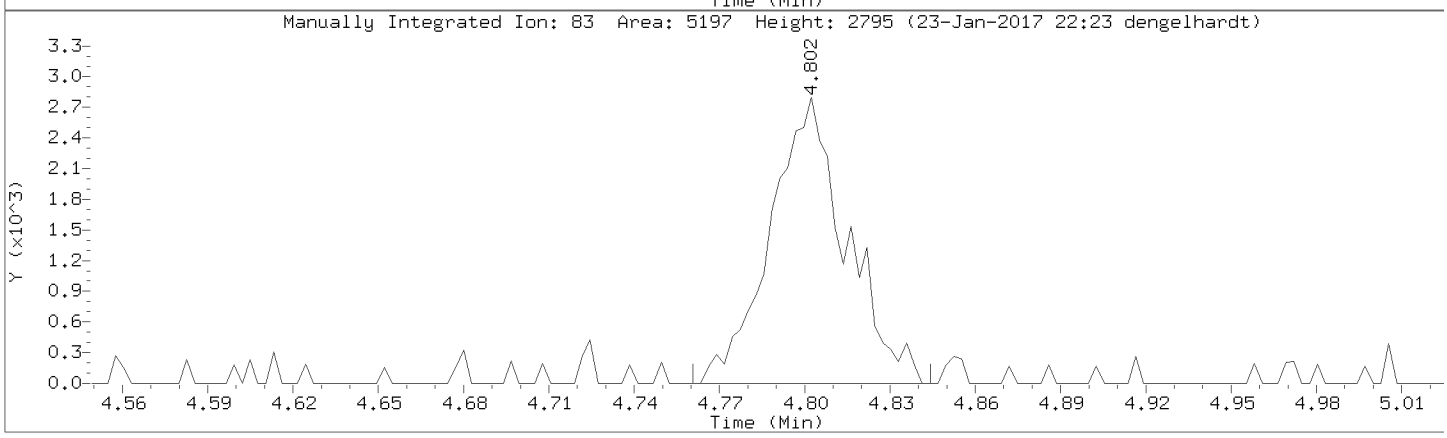
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3





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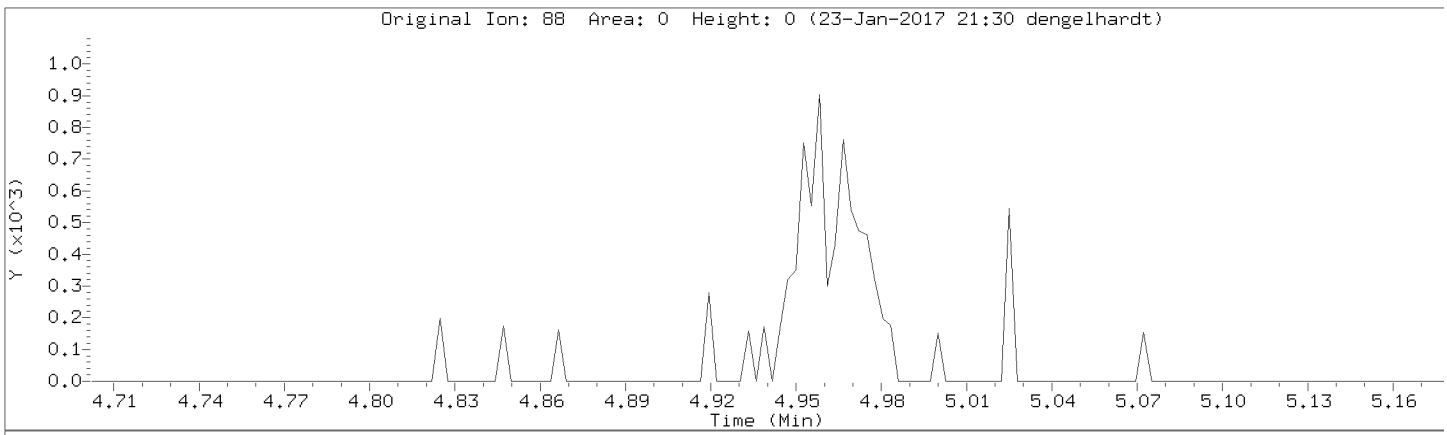
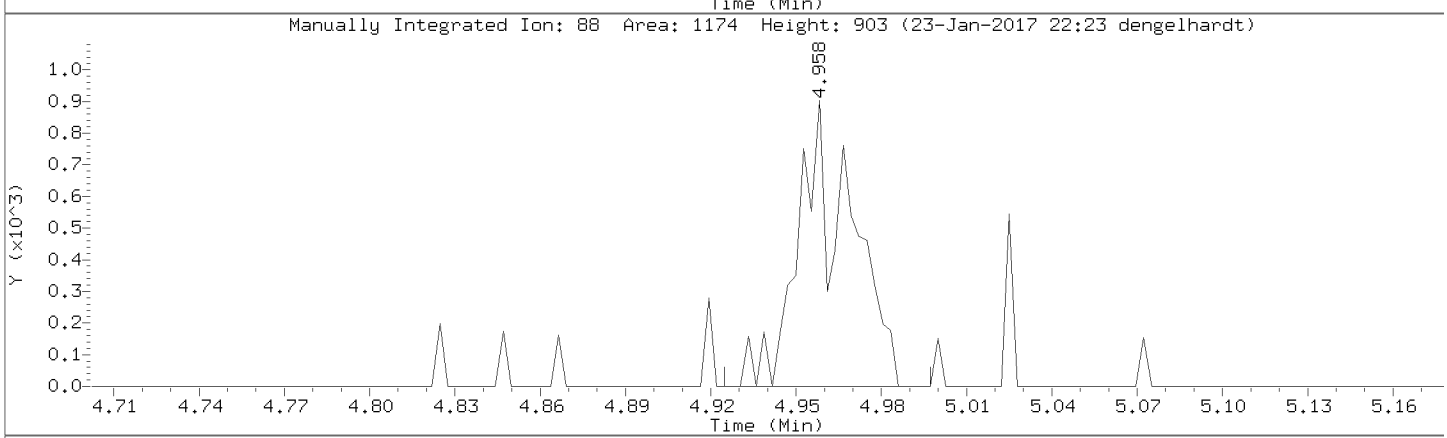
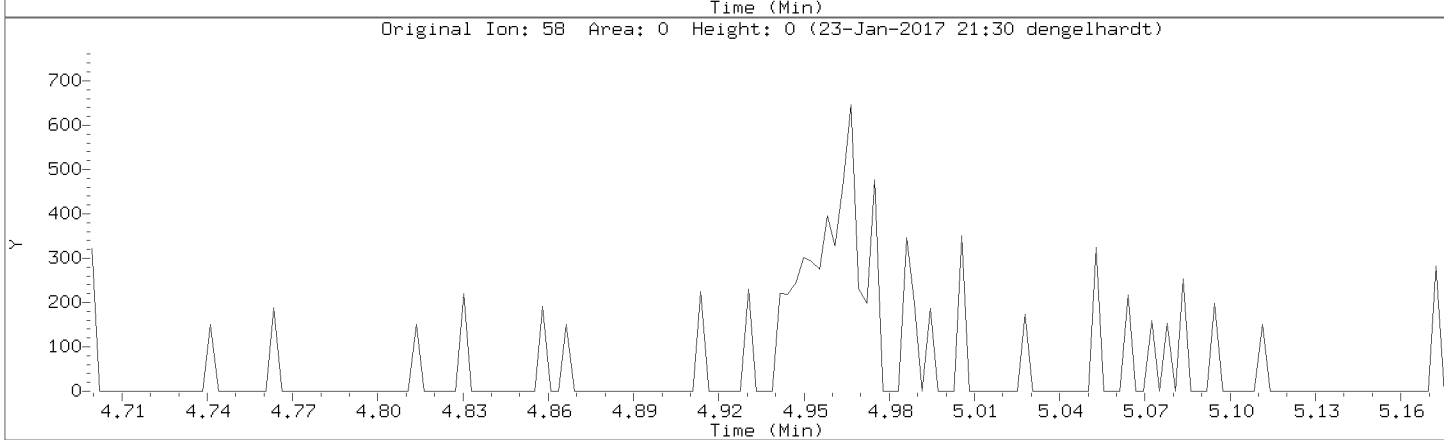
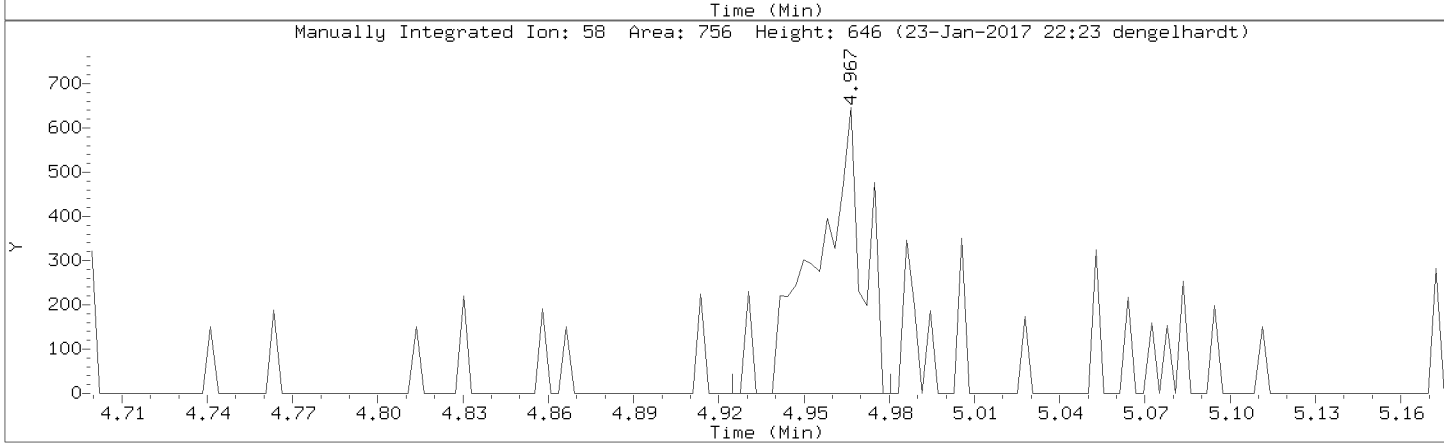
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: 1,4-Dioxane Review Code: NI
CAS Number:









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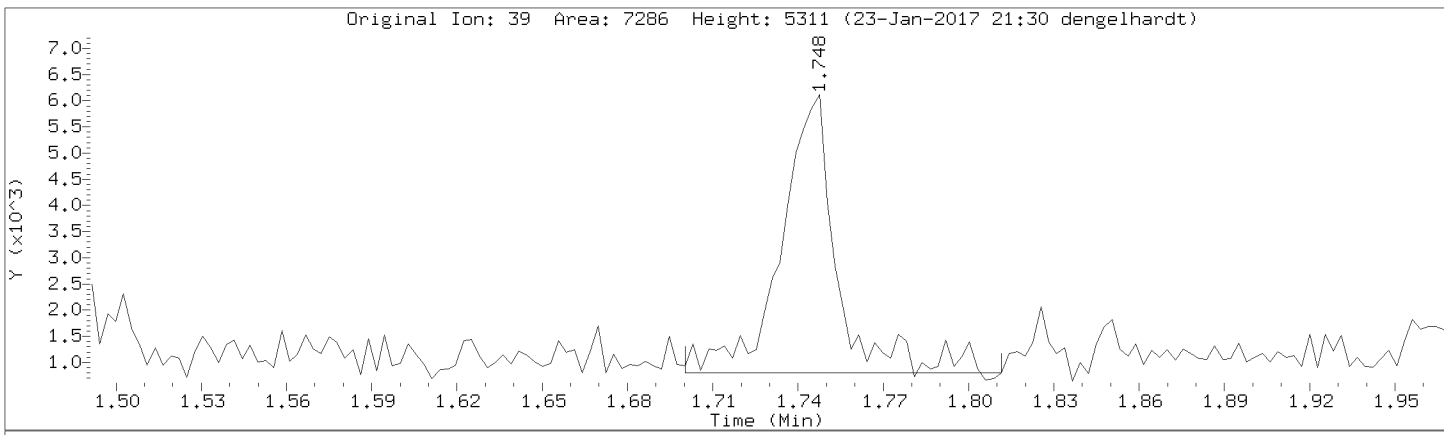
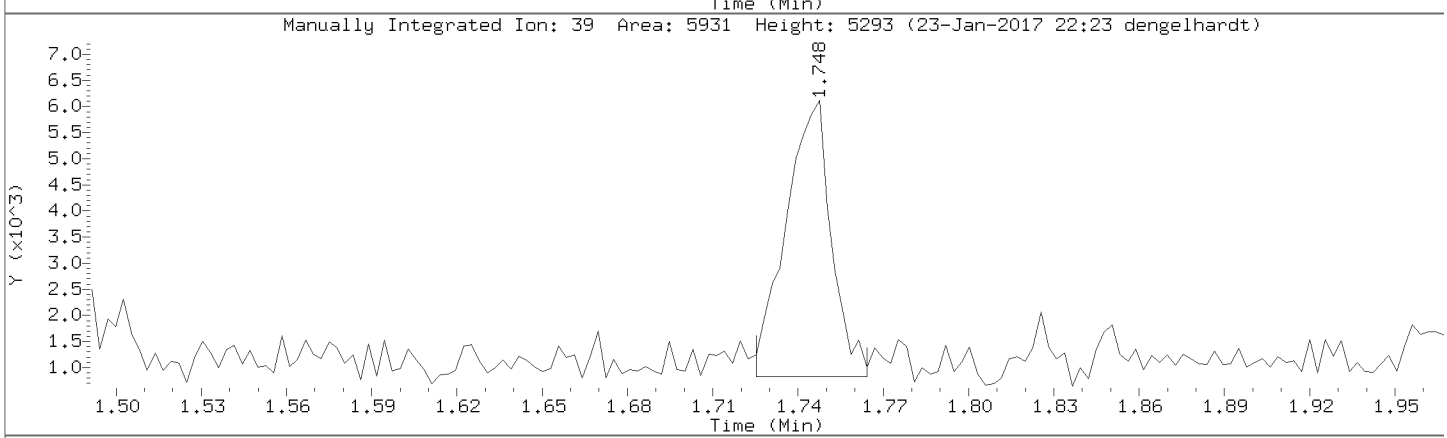
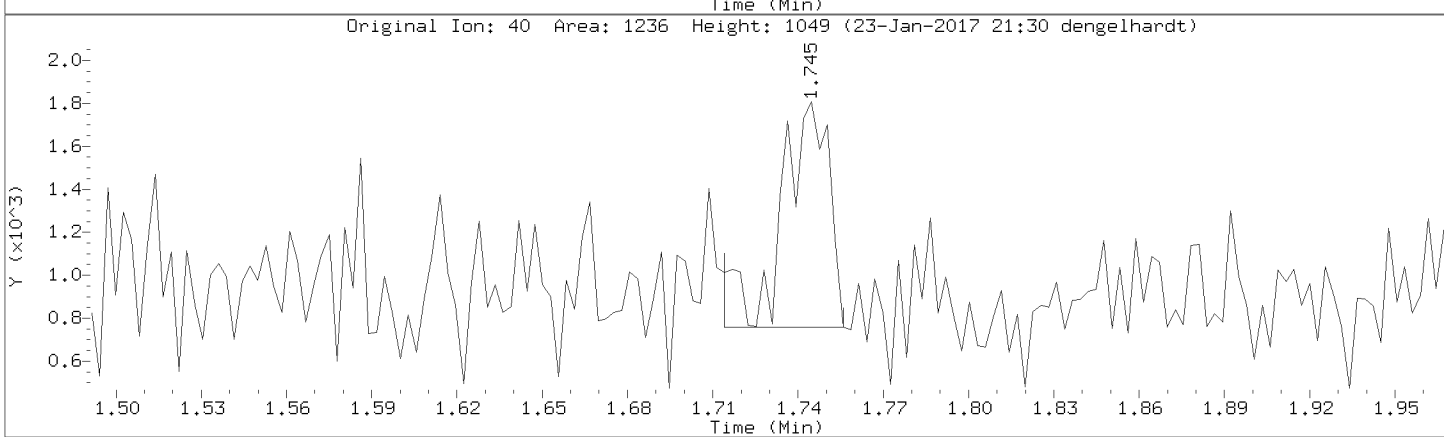
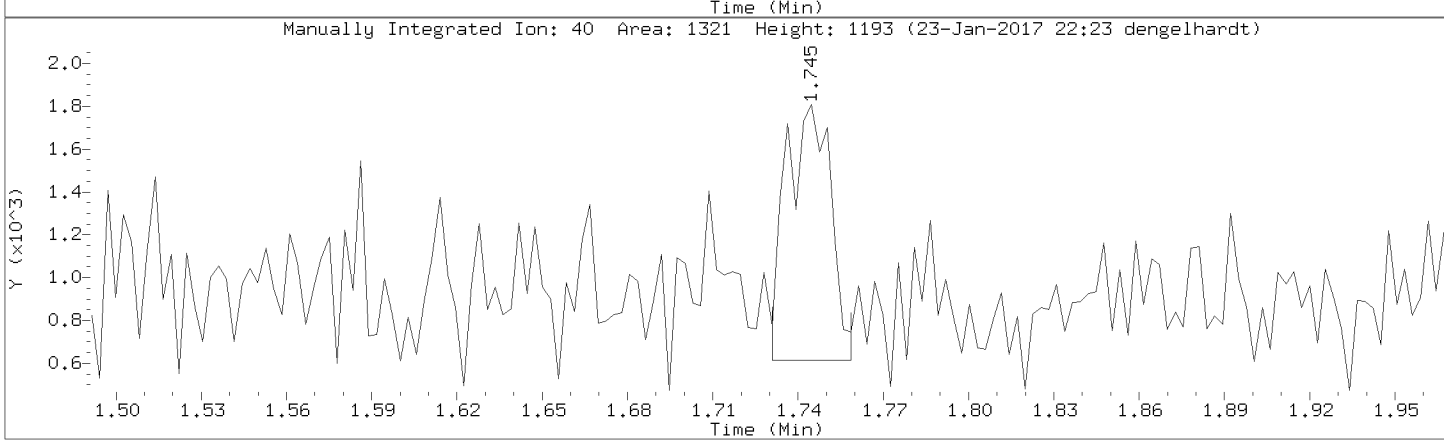
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Acetonitrile Review Code: LT
CAS Number: 75-05-8









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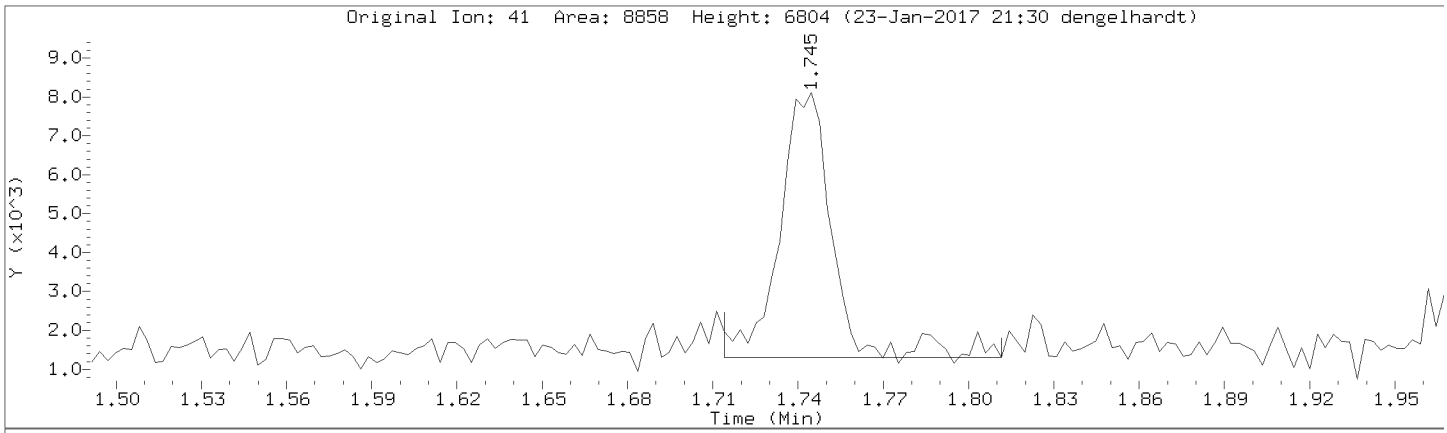
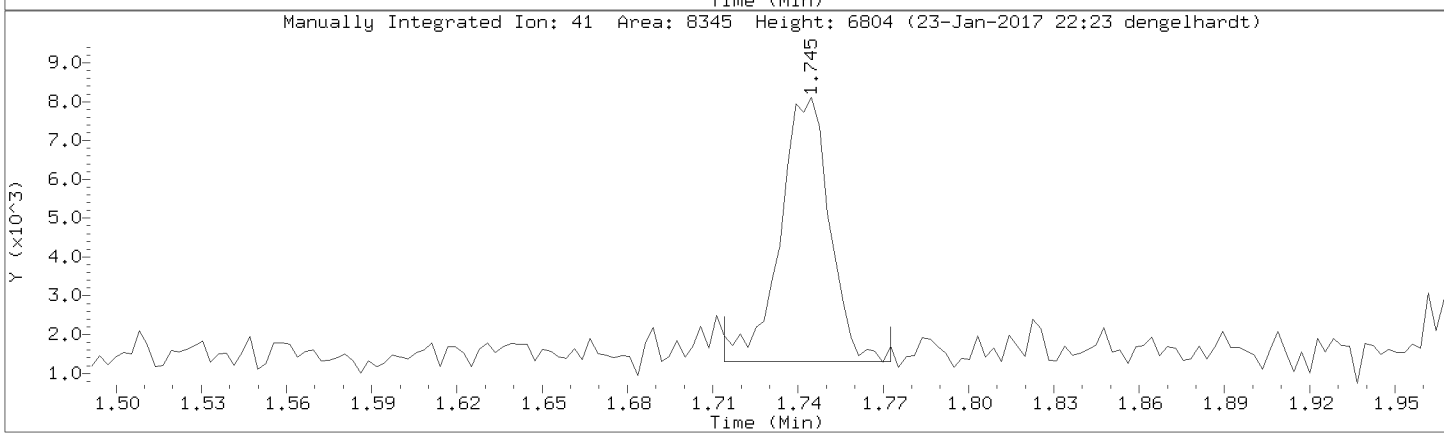
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3





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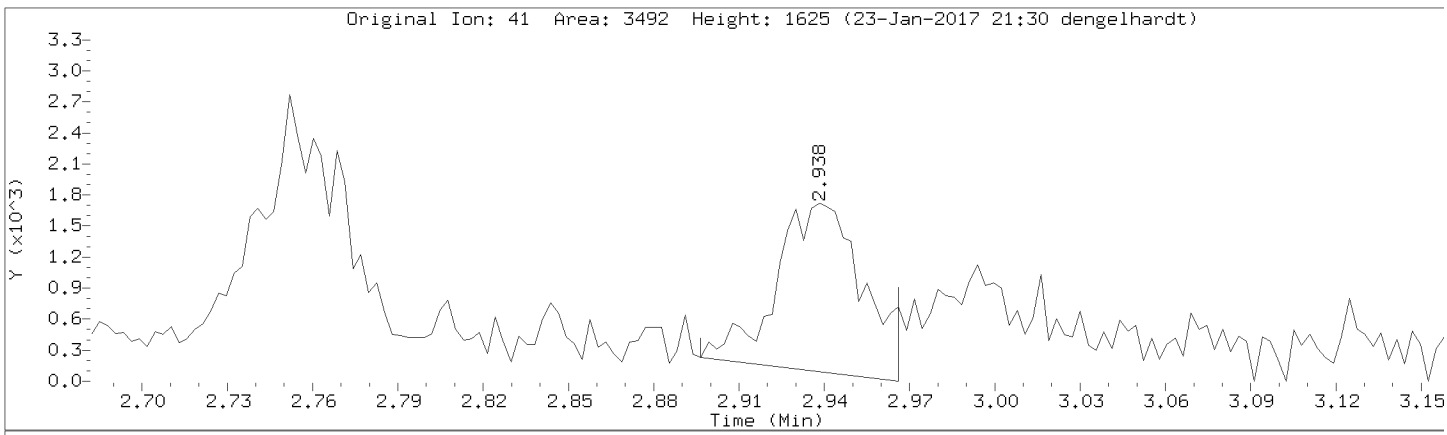
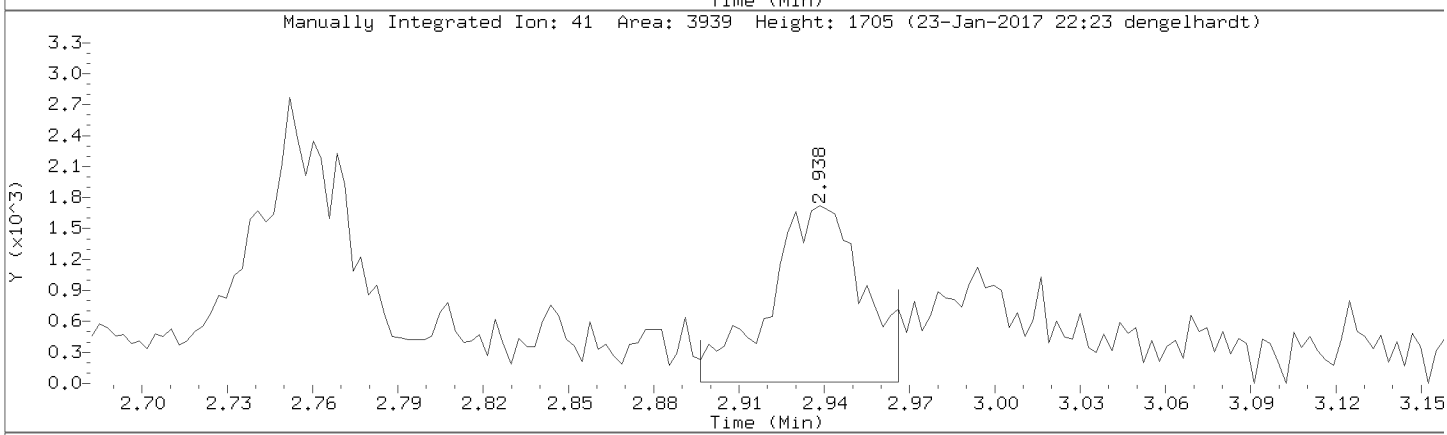
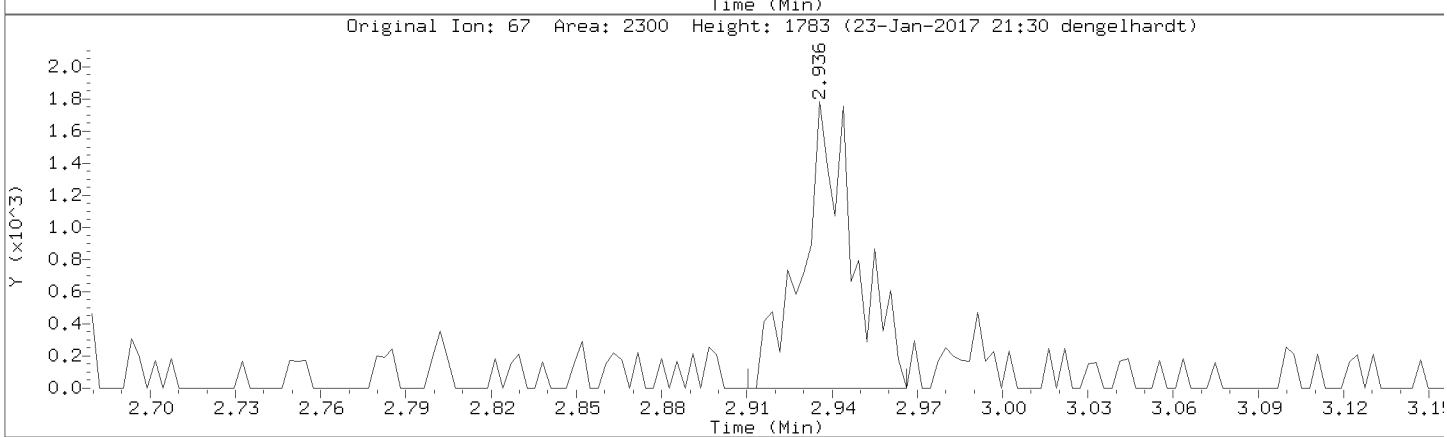
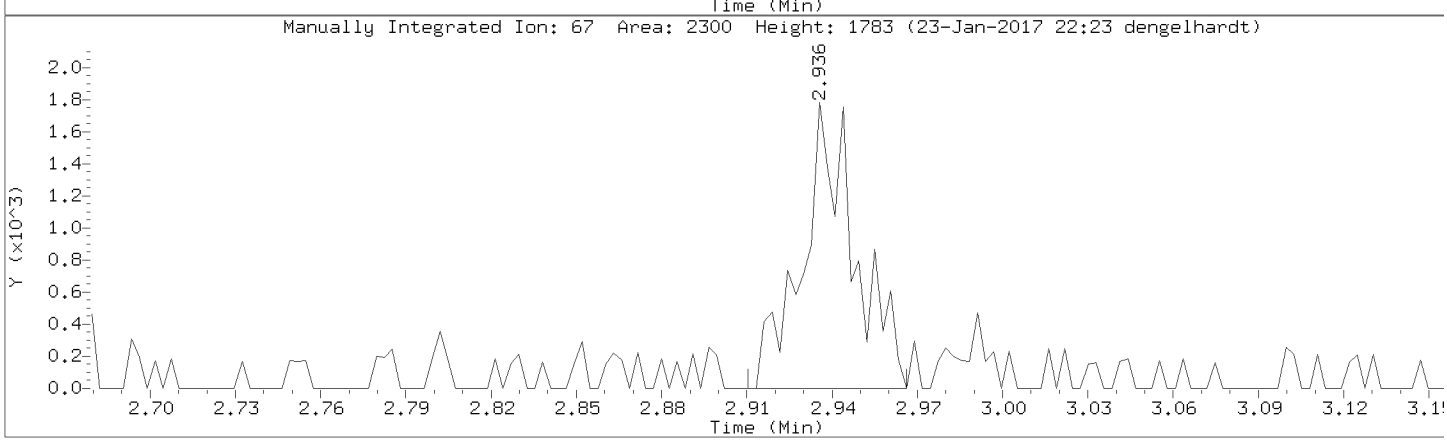
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7









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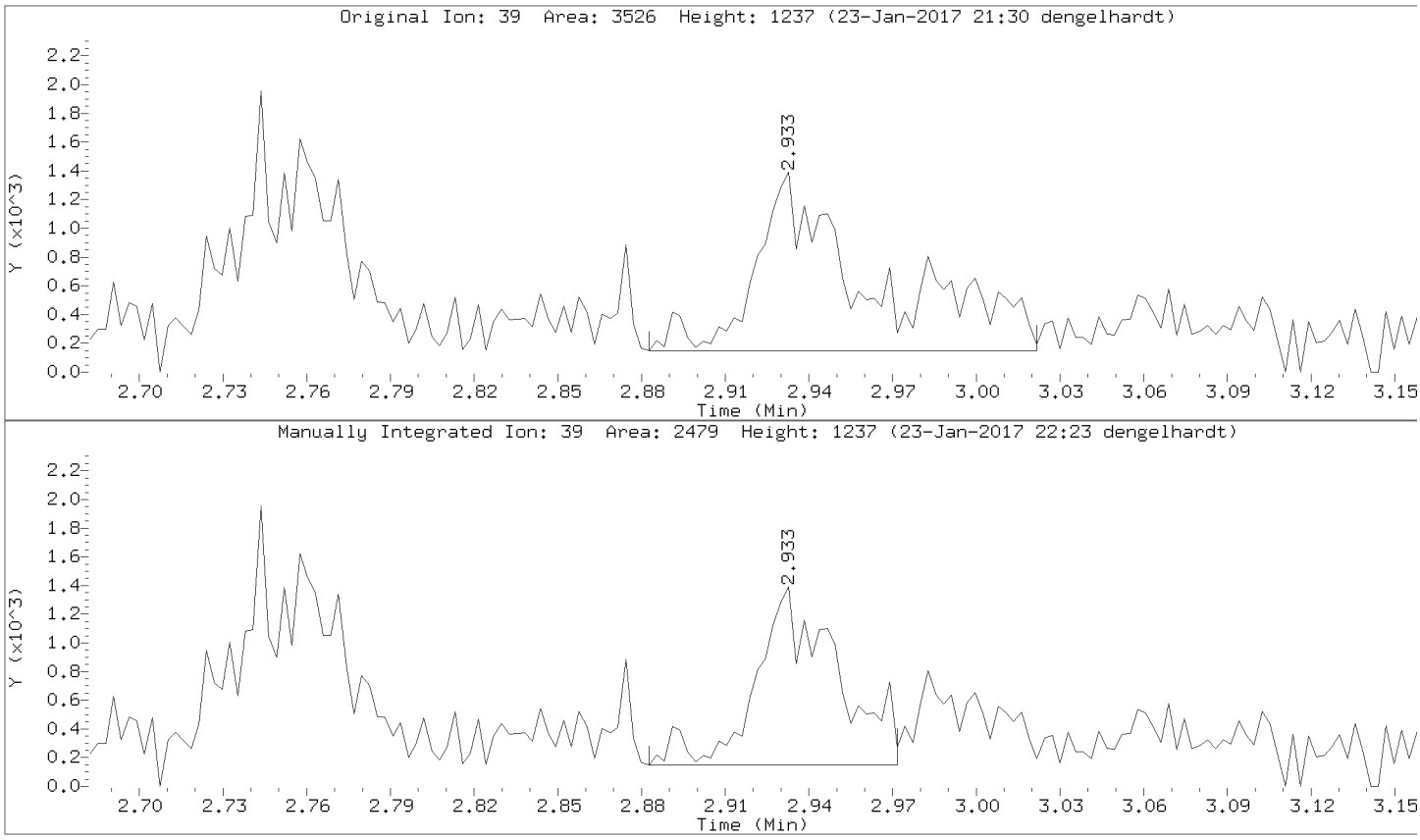
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3



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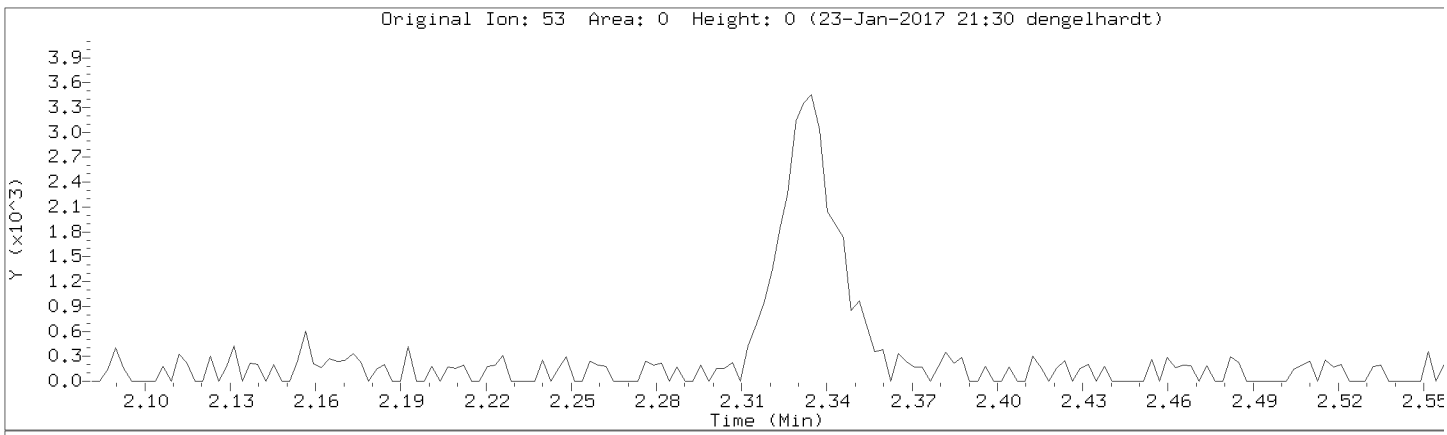
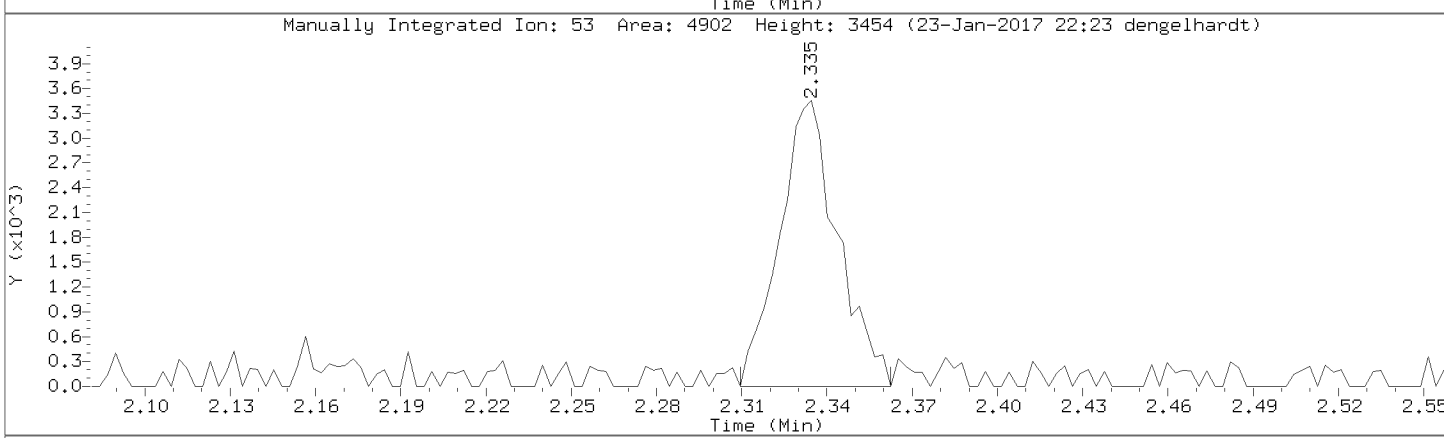
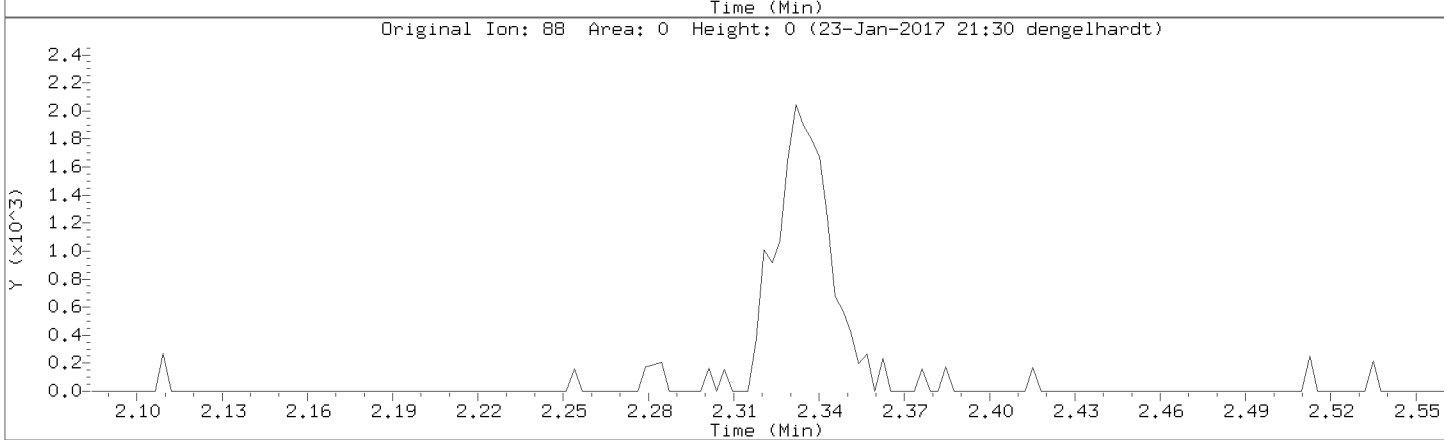
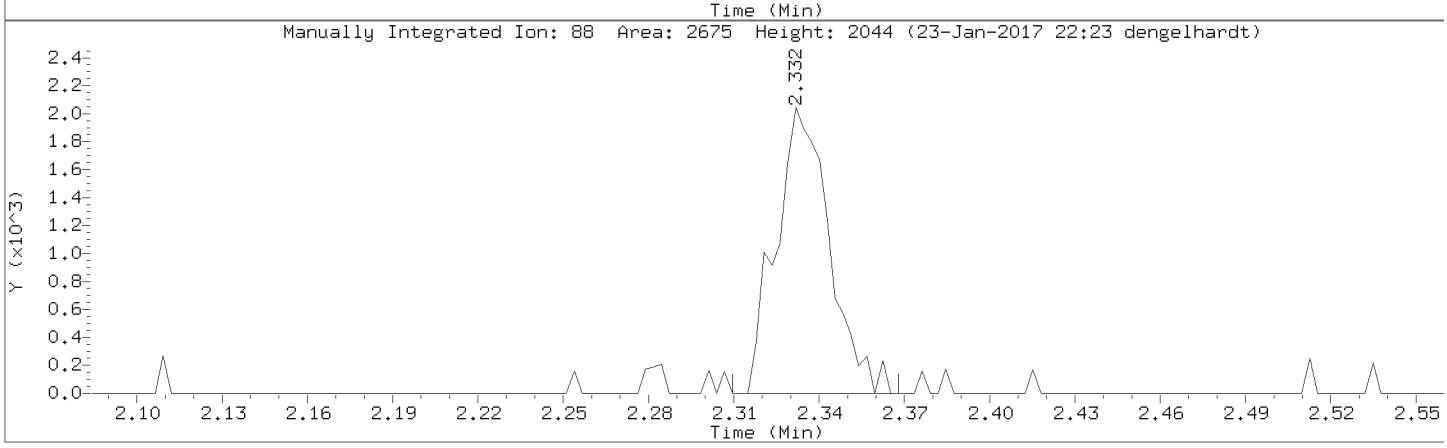
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8









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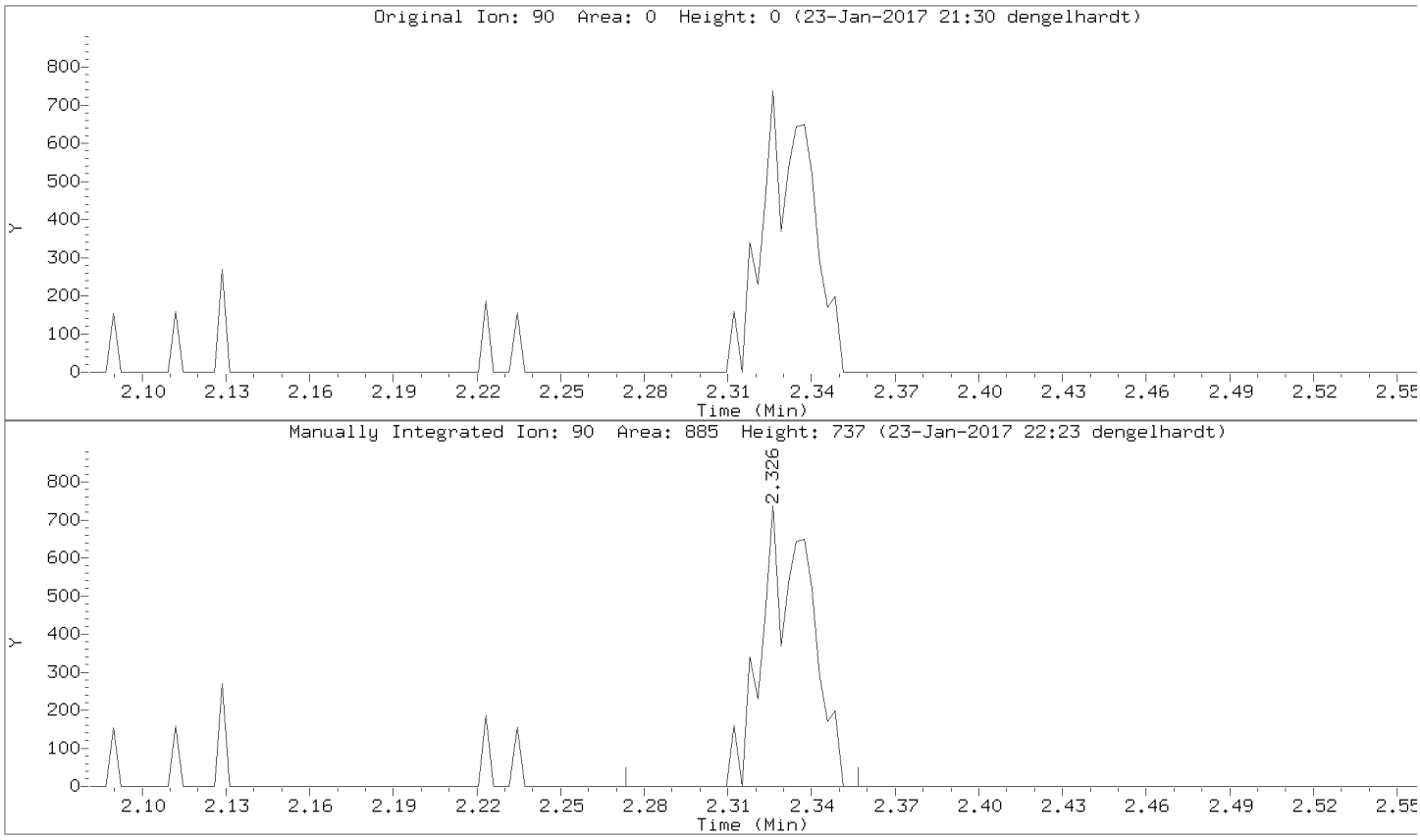
Lab Sample ID: 8260-CAL3



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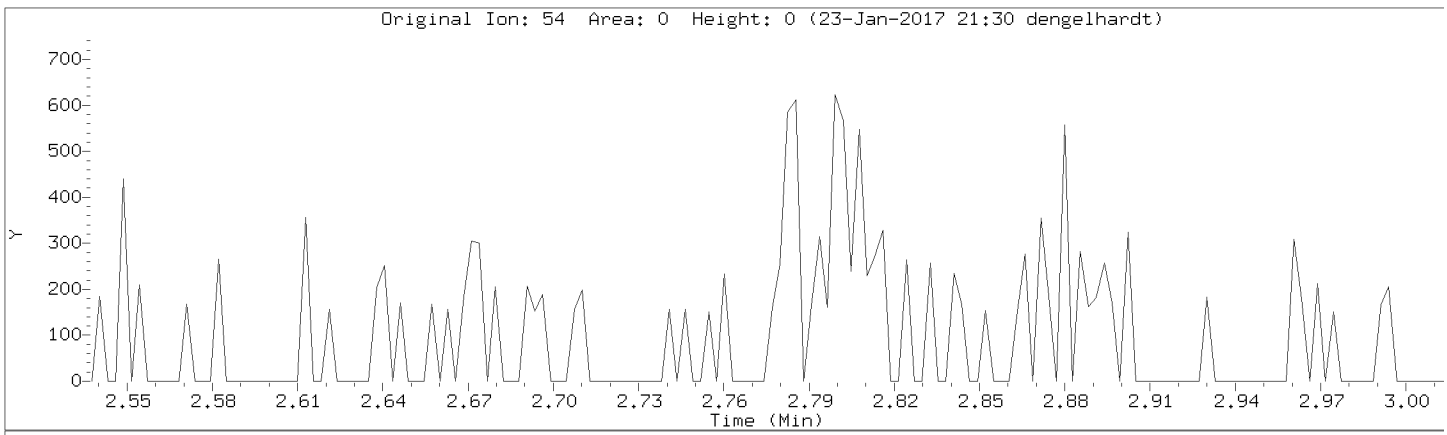
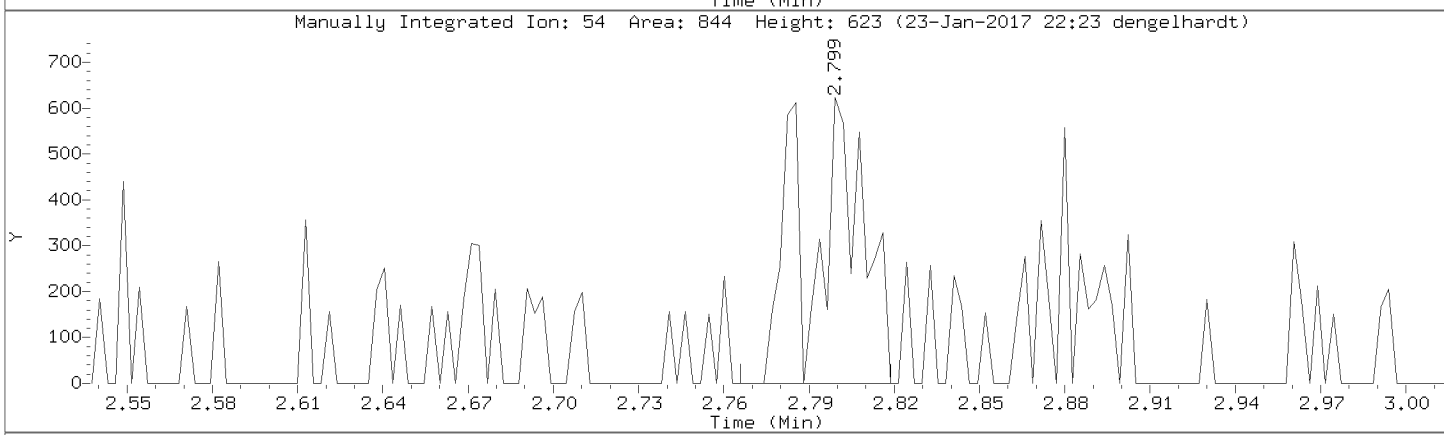
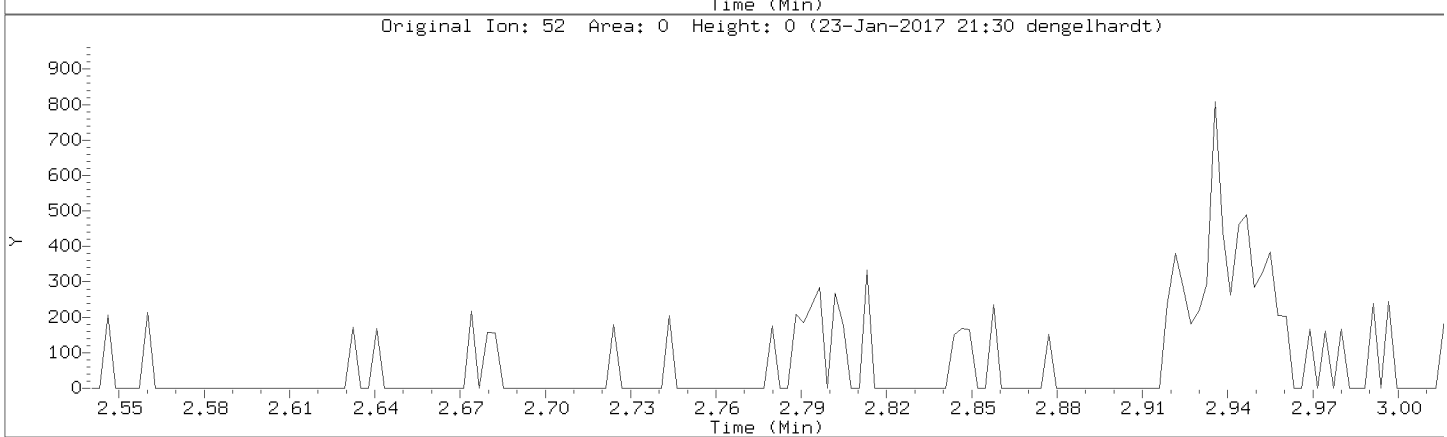
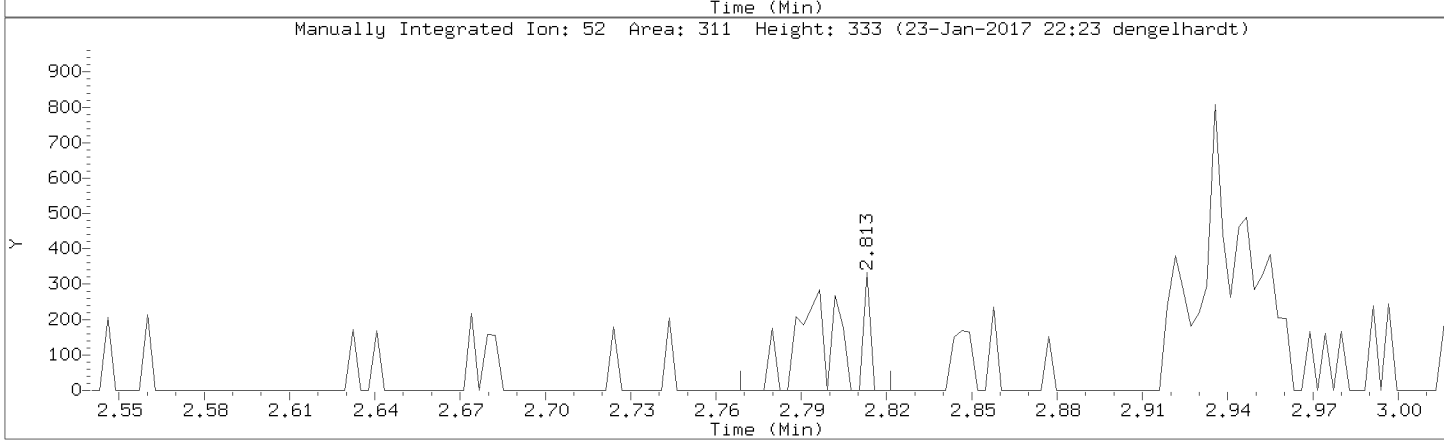
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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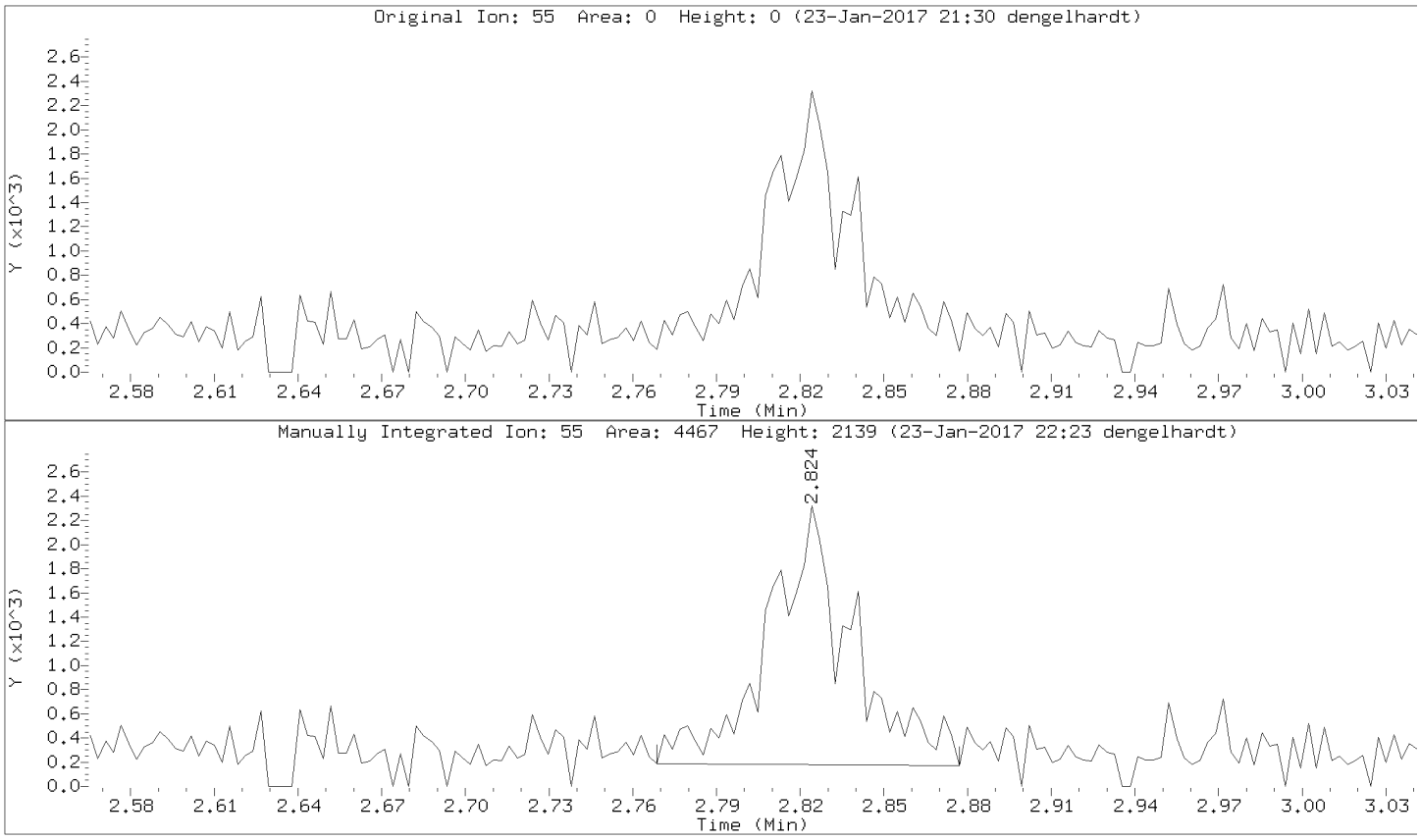
Lab Sample ID: 8260-CAL3



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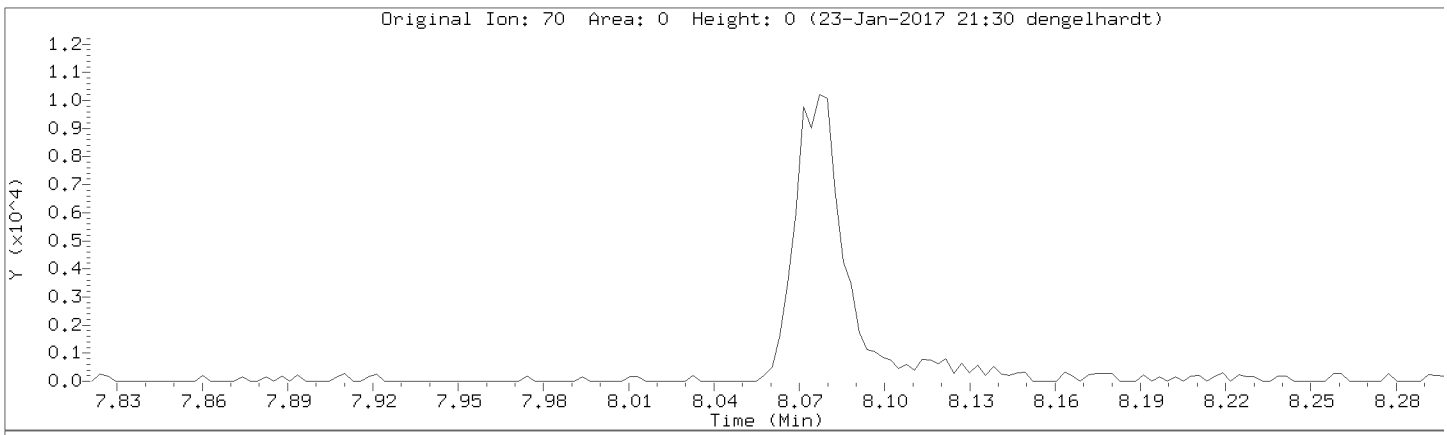
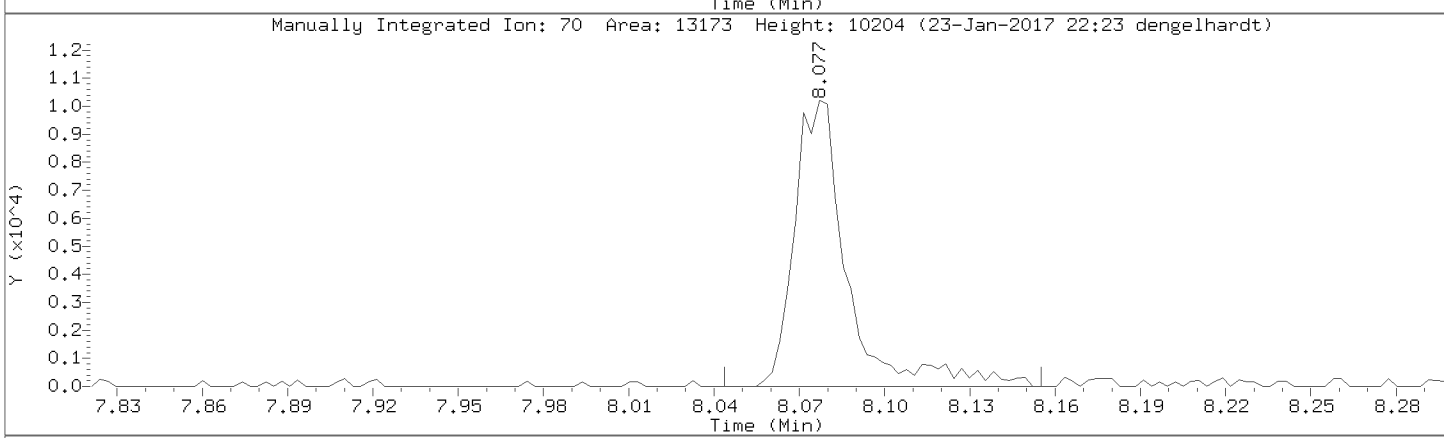
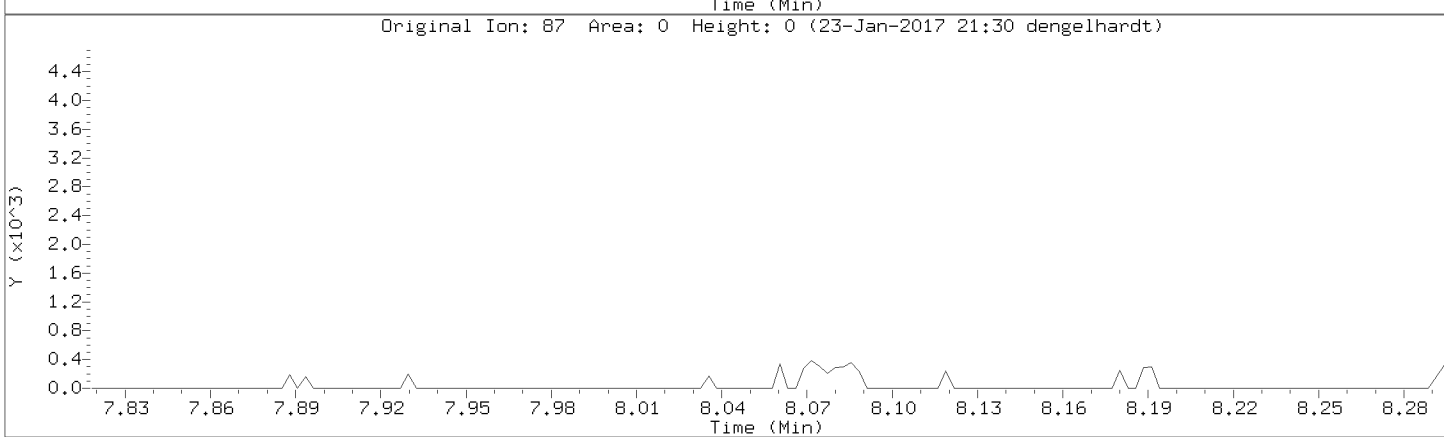
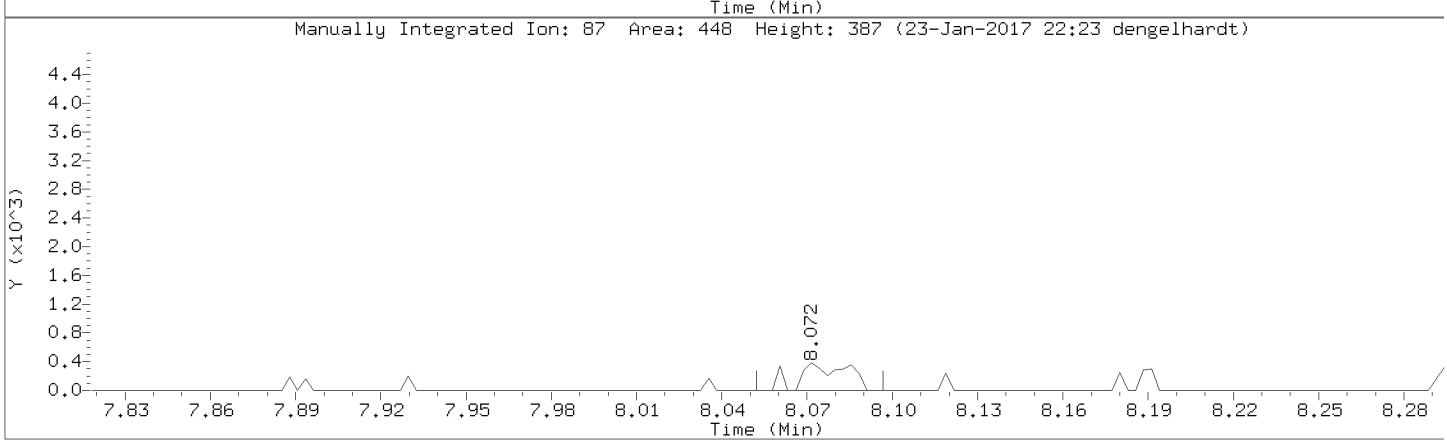
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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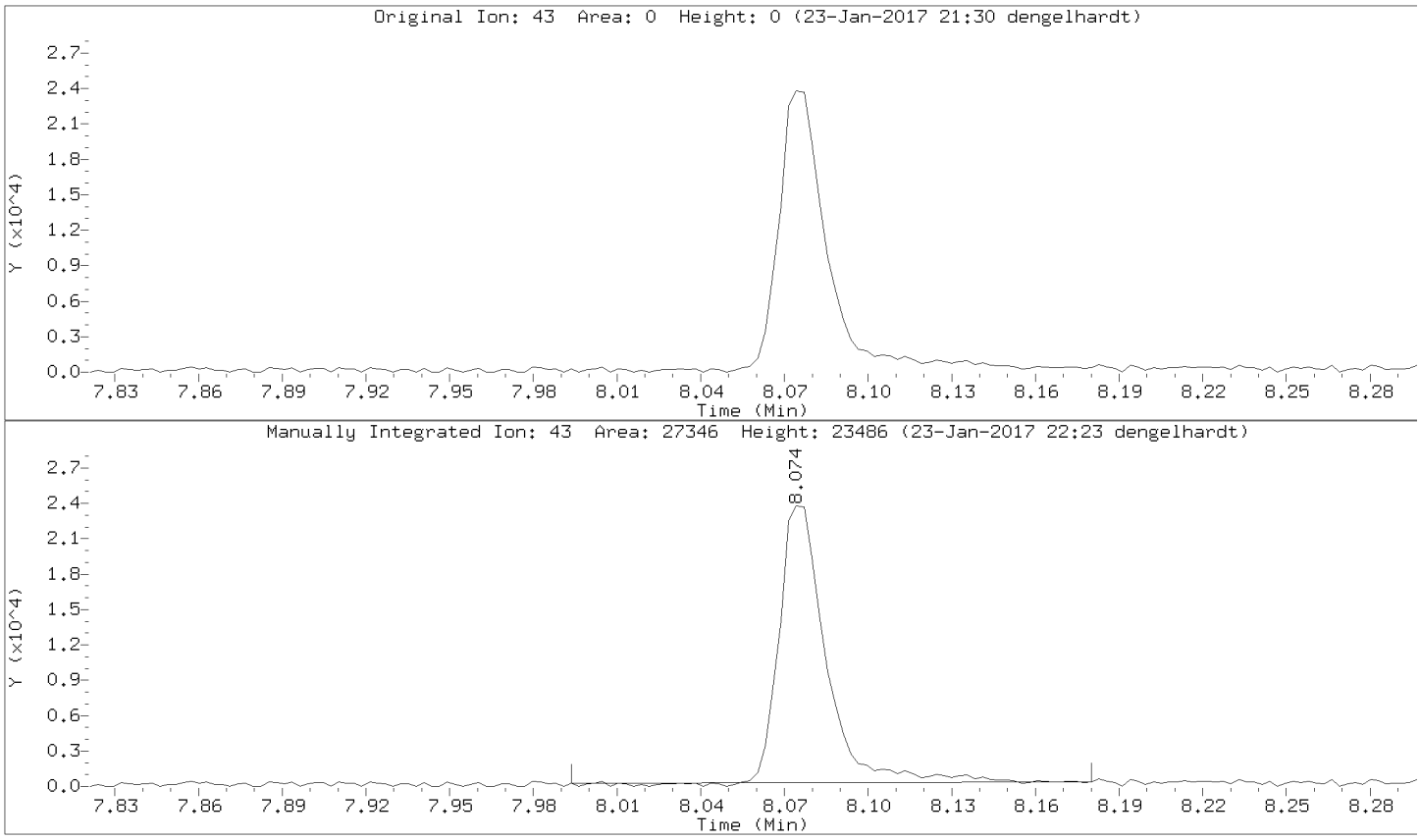

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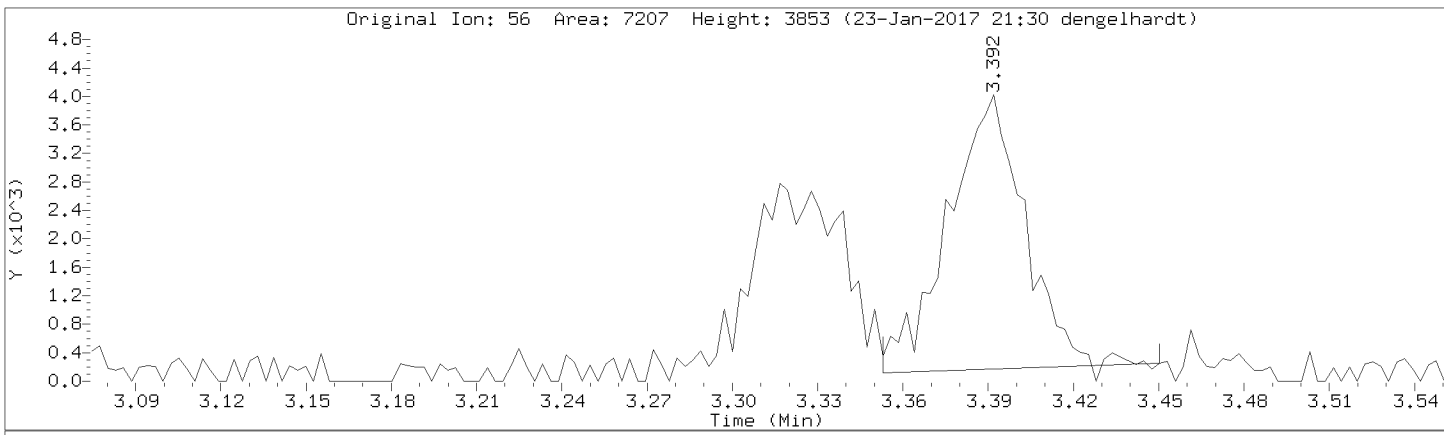
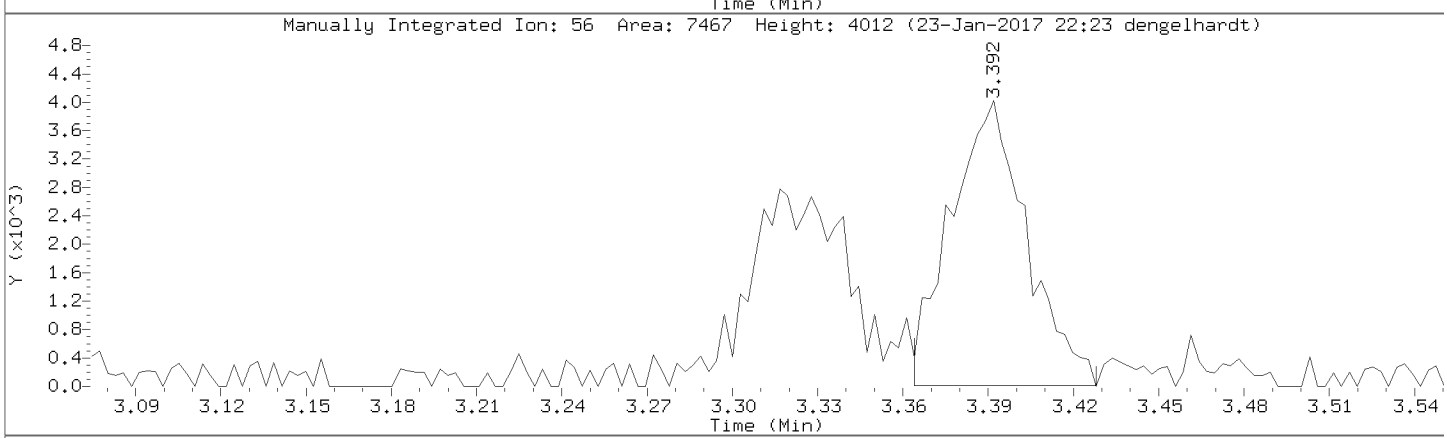
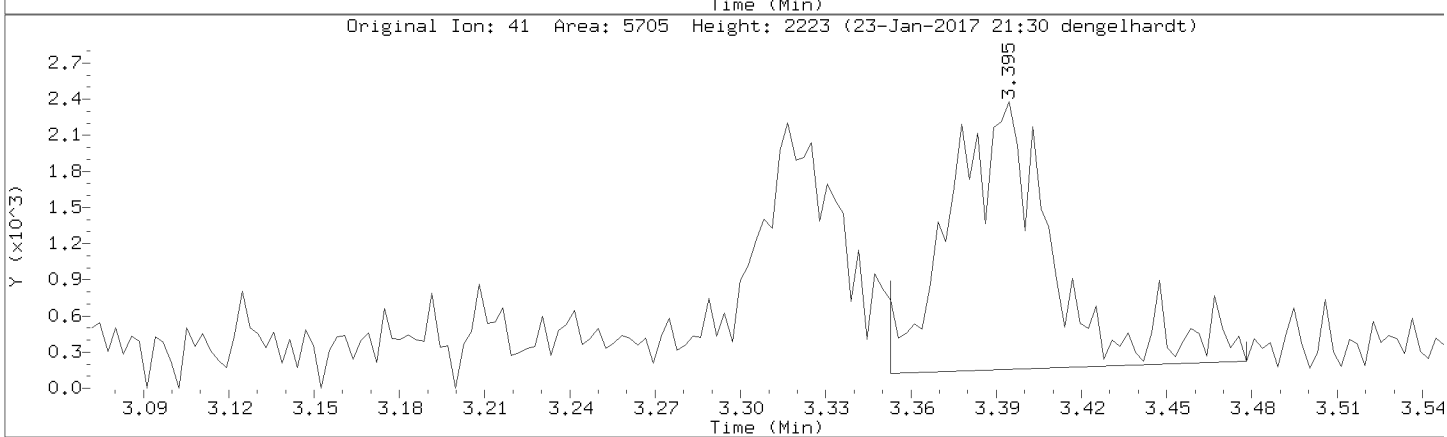
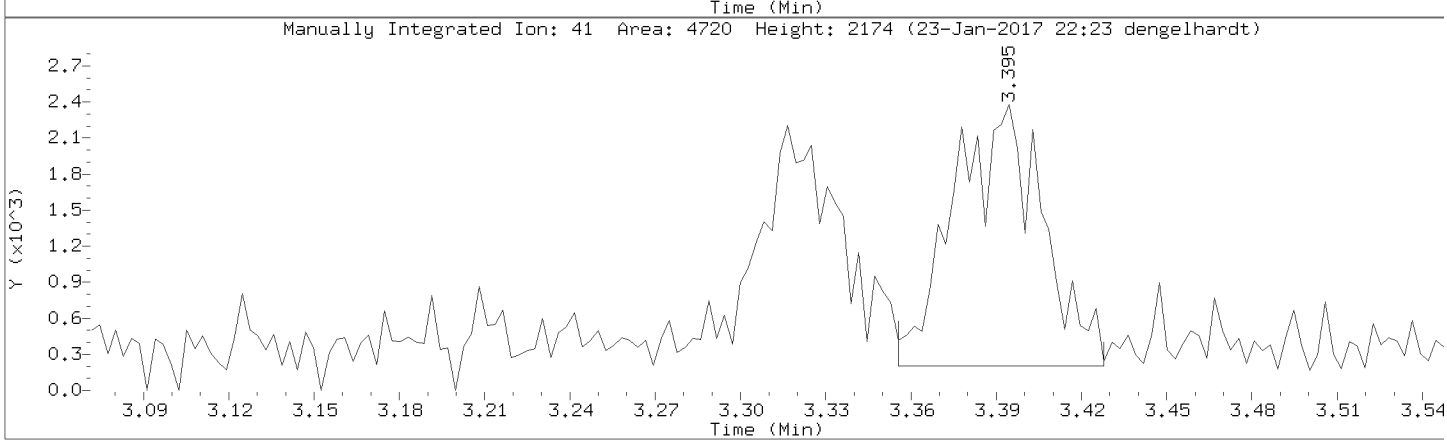
Injection Date: 22-JAN-2017 23:16
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL3

Compound: n-butyl chloride Review Code: LT
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b04cal4.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 22-JAN-2017 23:49
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal4,140429:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 57 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.885	0.882	(0.217)	8372	5.00000	6.17(M)	NI
2 Chloromethane	50	0.990	0.990	(0.243)	11224	5.00000	4.11	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	12056	5.00000	5.17(QM)	WP
4 Bromomethane	94	1.152	1.149	(0.283)	5108	5.00000	3.62	
5 Chloroethane	64	1.196	1.193	(0.294)	6341	5.00000	4.24(M)	GT
6 Trichlorofluoromethane	101	1.305	1.305	(0.320)	13786	5.00000	5.46	
7 Diethyl ether	74	1.427	1.427	(0.350)	6885	5.00000	4.35	
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.354)	12162	5.00000	3.20	
9 Acrolein	56	1.499	1.500	(0.368)	33595	100.000	103	
10 1,1,2trichlorotrifluoroethane	101	1.550	1.547	(0.380)	9253	5.00000	4.46	
11 1,1-Dichloroethene	96	1.550	1.550	(0.380)	9655	5.00000	4.16	
12 Acetone	43	1.563	1.564	(0.384)	21352	25.0000	17.0(M)	GT
13 Iodomethane	142	1.641	1.636	(0.403)	6841	10.0000	12.4	
14 Carbon Disulfide	76	1.683	1.683	(0.413)	25531	5.00000	4.01	
15 Methyl Acetate	43	1.728	1.728	(0.424)	10330	5.00000	2.43(M)	GT
16 Acetonitrile	39	1.744	1.742	(0.428)	16035	5.00000	4.50(M)	GT
17 allyl chloride	41	1.742	1.742	(0.427)	22280	10.0000	8.70	
18 Methylene Chloride	84	1.817	1.817	(0.446)	10456	5.00000	2.86(M)	LT
19 tert-Butyl Alcohol	59	1.858	1.861	(0.456)	2443	10.0000	6.41(QM)	
20 Acrylonitrile	53	1.953	1.950	(0.479)	20651	20.0000	14.6(M)	GT
21 Methyl-tert-butyl ether	73	1.972	1.973	(0.484)	27361	5.00000	4.29	
22 1,2-Dichloroethene (trans)	96	1.986	1.981	(0.487)	9424	5.00000	3.32(M)	LT
23 n-Hexane	57	2.156	2.156	(0.529)	10393	5.00000	3.50(M)	LT

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.273	2.270	(0.558)	79408	20.0000	24.8	
25 1,1-Dichloroethane	63	2.279	2.279	(0.559)	16449	5.00000	4.55	
26 Chloroprene	53	2.337	2.331	(0.573)	12495	5.00000	4.21	
147 Ethyl acetate	88	2.774	2.774	(0.681)	4519	40.0000	38.7(Q)	
27 2-Butanone	72	2.732	2.732	(0.670)	7213	25.0000	28.2(Q)	
28 1,2-Dichloroethene (cis)	96	2.740	2.740	(0.672)	10685	5.00000	4.23	
29 2,2-Dichloropropane	77	2.740	2.746	(0.672)	8906	5.00000	3.58	
30 Propionitrile	54	2.788	2.788	(0.684)	1845	5.00000	3.32(QM)	LT
31 Methacrylonitrile	41	2.941	2.932	(0.722)	7570	5.00000	3.09(M)	LT
32 Bromochloromethane	49	2.974	2.971	(0.730)	8453	5.00000	4.53	
33 Tetrahydrofuran	42	2.994	2.985	(0.734)	5230	5.00000	2.33	
34 Chloroform	83	3.077	3.077	(0.755)	15575	5.00000	3.77	
$ 35 Dibromofluoromethane (S)	113	3.250	3.252	(0.797)	64460	50.0000	49.0	
36 1,1,1-Trichloroethane	97	3.247	3.247	(0.797)	13363	5.00000	3.98	
37 cyclohexane	56	3.325	3.325	(0.816)	14050	5.00000	3.36	
146 n-butyl chloride	56	3.386	3.325	(0.831)	18408	5.00000	3.92	
38 Carbon Tetrachloride	117	3.419	3.419	(0.839)	11850	5.00000	4.36	
39 1,1-Dichloropropene	75	3.428	3.430	(0.841)	11457	5.00000	4.33	
40 Benzene	78	3.667	3.667	(0.900)	34291	5.00000	4.37	
41 1,2-Dichloroethane	62	3.756	3.756	(0.921)	12612	5.00000	4.41	
42 2,2,4-Trimethylpentane	57	3.837	3.839	(0.941)	22242	5.00000	3.94	
43 Isobutyl alcohol	43	3.781	3.606	(0.928)	79868	5.00000	4.25(M)	LT
148 Isopropyl acetate	61	3.789	3.784	(0.930)	16454	20.0000	18.0	
* 44 Fluorobenzene	96	4.076	4.070	(1.000)	231431	50.0000		
45 Trichloroethene	95	4.538	4.532	(1.113)	8236	5.00000	4.32	
46 Methylcyclohexane	55	4.794	4.799	(1.176)	10345	5.00000	2.81(M)	WP
47 1,2-Dichloropropane	63	4.852	4.849	(1.190)	9134	5.00000	4.40(M)	NI
48 Dibromomethane	93	4.944	4.947	(1.213)	6549	5.00000	4.12	
49 Methyl methacrylate	69	4.972	4.966	(1.220)	7375	5.00000	4.22	
50 1,4-Dioxane	88	4.961	4.952	(1.217)	2614	100.000	97.3	
51 Bromodichloromethane	83	5.178	5.175	(1.270)	12138	5.00000	4.20	
52 2-Chloroethyl vinyl ether	63	5.537	5.537	(0.752)	8260	10.0000	10.2	
53 cis-1,3-Dichloropropene	75	5.681	5.678	(0.771)	13996	5.00000	5.07	
54 4-Methyl-2-Pentanone	43	5.862	5.854	(0.796)	47405	25.0000	22.0	
$ 55 Toluene-d8	98	5.951	5.951	(0.808)	230388	50.0000	48.6	
56 Toluene	91	6.029	6.023	(0.818)	39647	5.00000	4.38	
57 trans-1,3-Dichloropropene	75	6.324	6.318	(0.858)	11227	5.00000	4.40	
58 Ethyl Methacrylate	69	6.410	6.407	(0.870)	12350	5.00000	3.94(M)	NI
59 1,1,2-Trichloroethane	83	6.519	6.516	(0.885)	7050	5.00000	4.27	
60 Tetrachloroethene	166	6.566	6.566	(0.891)	10154	5.00000	4.30	
61 1,3-Dichloropropane	76	6.669	6.666	(0.905)	13942	5.00000	4.65	
62 2-Hexanone	43	6.744	6.741	(0.915)	32530	25.0000	21.1	
63 Dibromochloromethane	129	6.869	6.864	(0.932)	9902	5.00000	4.71	
64 1,2-Dibromoethane	107	6.961	6.956	(0.945)	8120	5.00000	4.34	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	193003	50.0000		
66 Chlorobenzene	112	7.389	7.392	(1.003)	25709	5.00000	4.54	
67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	8952	5.00000	4.42	
68 Ethylbenzene	106	7.487	7.487	(1.016)	14857	5.00000	4.84(Q)	
69 m&p-Xylene	106	7.601	7.598	(1.032)	35512	10.0000	9.53	
70 o-Xylene	106	7.901	7.899	(1.073)	15294	5.00000	4.16(Q)	
71 Styrene	104	7.921	7.918	(1.075)	28235	5.00000	4.78(M)	LT
72 Bromoform	173	8.054	8.057	(0.883)	8266	5.00000	4.69	
73 Isopropylbenzene	105	8.185	8.182	(1.111)	39082	5.00000	4.22	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	93382	50.0000	51.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.074	8.071	(1.096)	32349	20.0000	20.6	
75 Bromobenzene	77	8.405	8.405	(1.141)	16017	5.00000	4.02	
76 1,1,2,2-Tetrachloroethane	83	8.424	8.425	(0.924)	13094	5.00000	4.57	
77 trans-1,4-Dichloro-2-butene	53	8.452	8.450	(1.147)	3387	5.00000	4.28(Q)	
78 1,2,3-Trichloropropane	110	8.463	8.458	(0.928)	4249	5.00000	4.65	
79 n-Propylbenzene	91	8.488	8.489	(0.931)	46072	5.00000	4.72	
80 2-Chlorotoluene	91	8.547	8.544	(0.937)	28759	5.00000	4.29	
81 1,3,5-Trimethylbenzene	105	8.622	8.622	(0.945)	34668	5.00000	4.41	
82 4-Chlorotoluene	126	8.639	8.633	(0.947)	11281	5.00000	4.61	
83 tert-Butylbenzene	119	8.836	8.834	(0.969)	35791	5.00000	4.14(M)	GT
84 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	35784	5.00000	4.37	
85 sec-Butylbenzene	105	8.987	8.987	(0.985)	40918	5.00000	4.50	
86 1,3-Dichlorobenzene	146	9.070	9.067	(0.995)	24165	5.00000	5.05	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	35966	5.00000	4.71	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	117160	50.0000		
89 1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	23895	5.00000	4.23	
90 1,2-Dichlorobenzene	146	9.370	9.368	(1.027)	23566	5.00000	4.93	
91 n-Butylbenzene	91	9.359	9.359	(1.026)	28801	5.00000	4.57	
92 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	2784	5.00000	4.68	
93 1,2,4-Trichlorobenzene	180	10.375	10.372	(1.138)	13987	5.00000	4.86	
94 Hexachlorobutadiene	225	10.453	10.453	(1.146)	5594	5.00000	4.62	
95 Naphthalene	128	10.539	10.533	(1.156)	42095	5.00000	4.59	
96 1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	13496	5.00000	4.82	
97 2,methyl-naphthalene	142	11.232	11.226	(1.232)	18447	5.00000	4.59	
98 1-Methylnaphthalene	142	11.351	11.349	(1.245)	16409	5.00000	4.53	

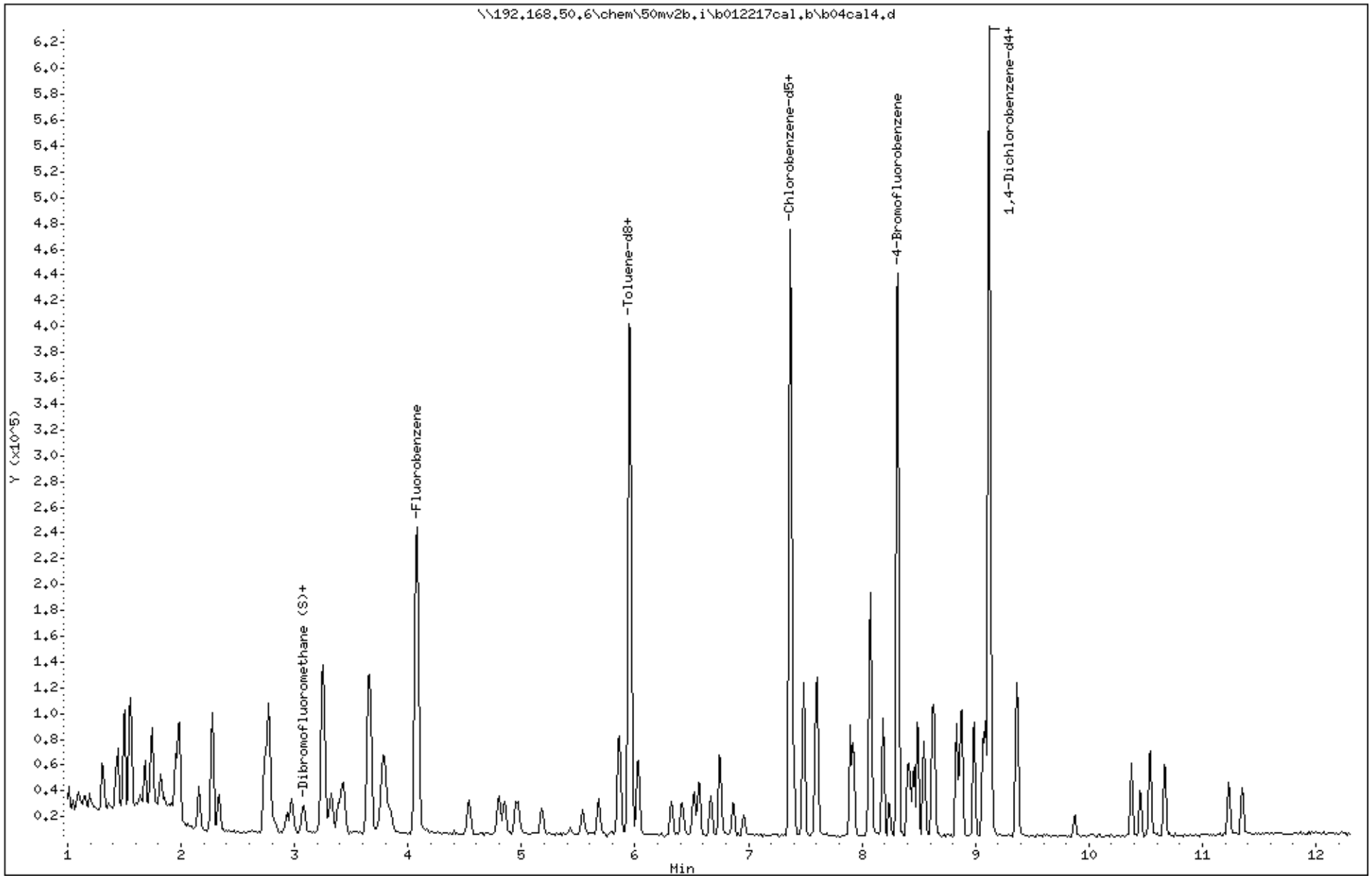
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

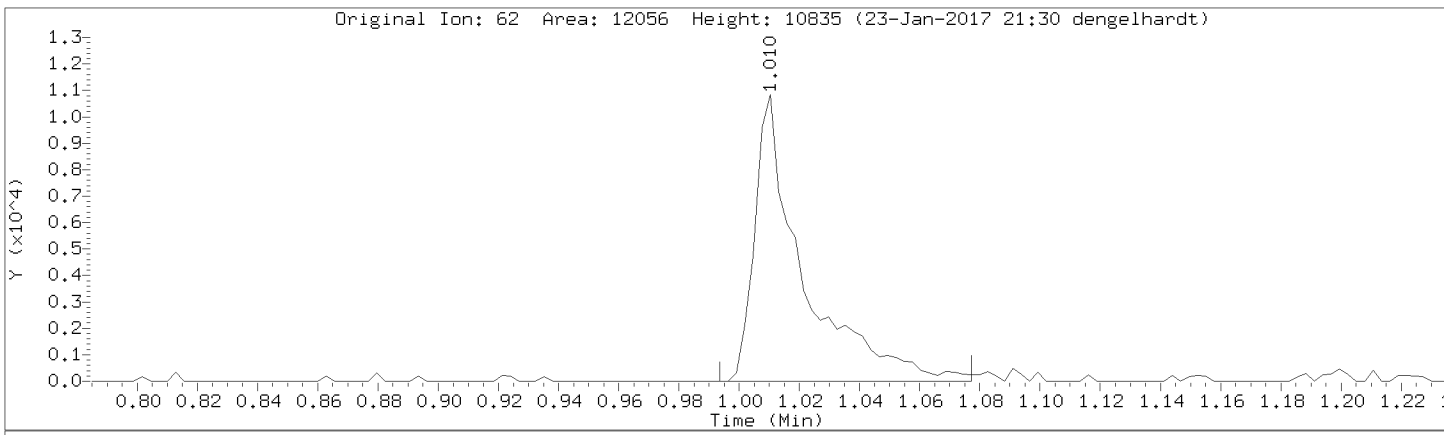
NI: Indicates that the peak was not integrated at all by the computer software.
:
WP: Indicates that the wrong peak was chosen by the data system.
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

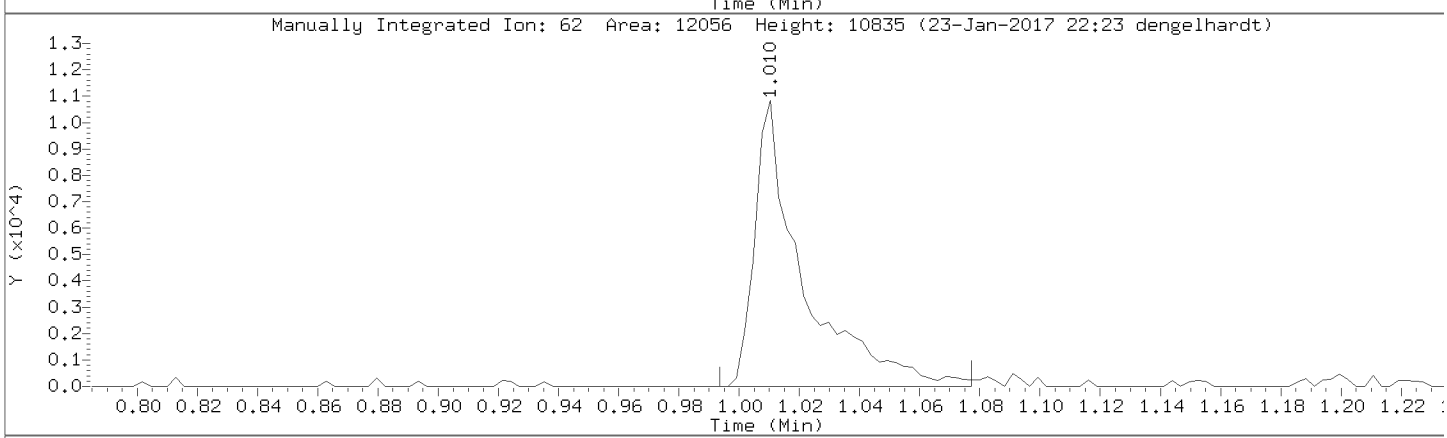
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b04cal4.d
Date : 22-JAN-2017 23:49
Client ID: 8260-CAL4
Instrument: 50mv2b.i
Sample Info: 8260-CAL4,140429:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18

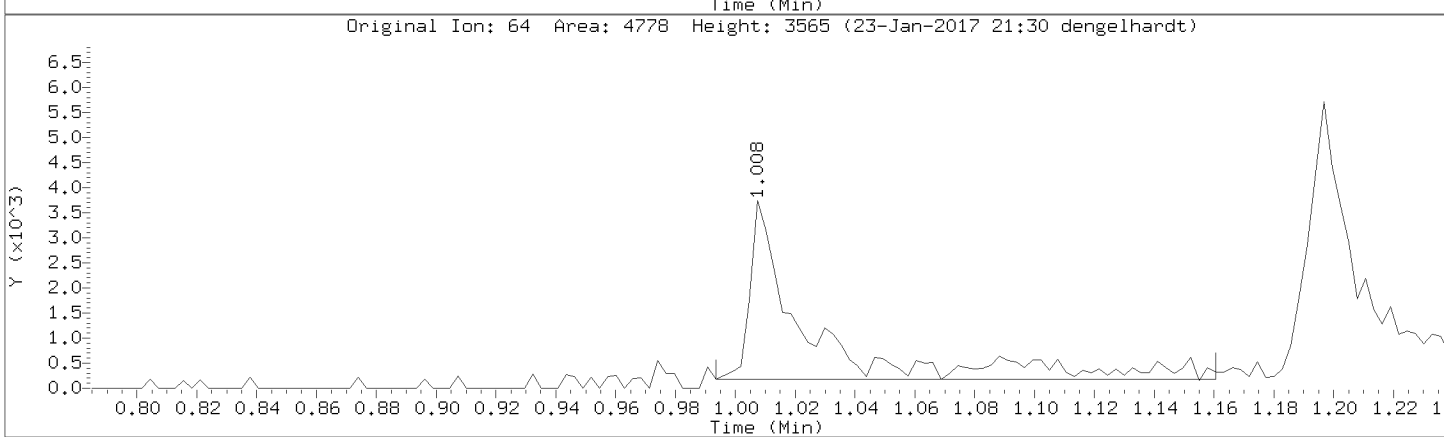


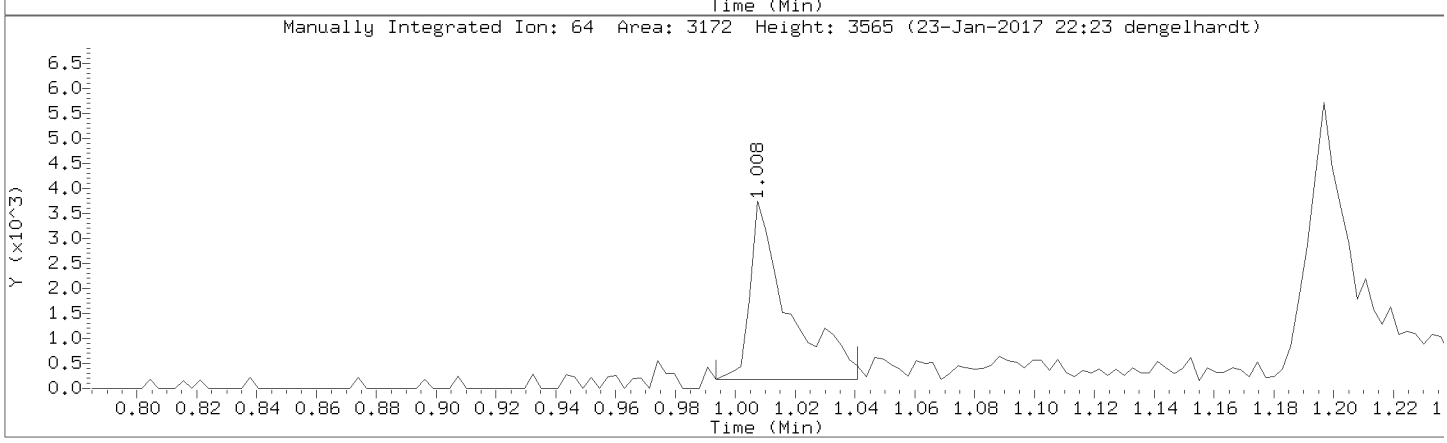
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b04cal4.d
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Vinyl Chloride Review Code: WP
CAS Number: 75-01-4









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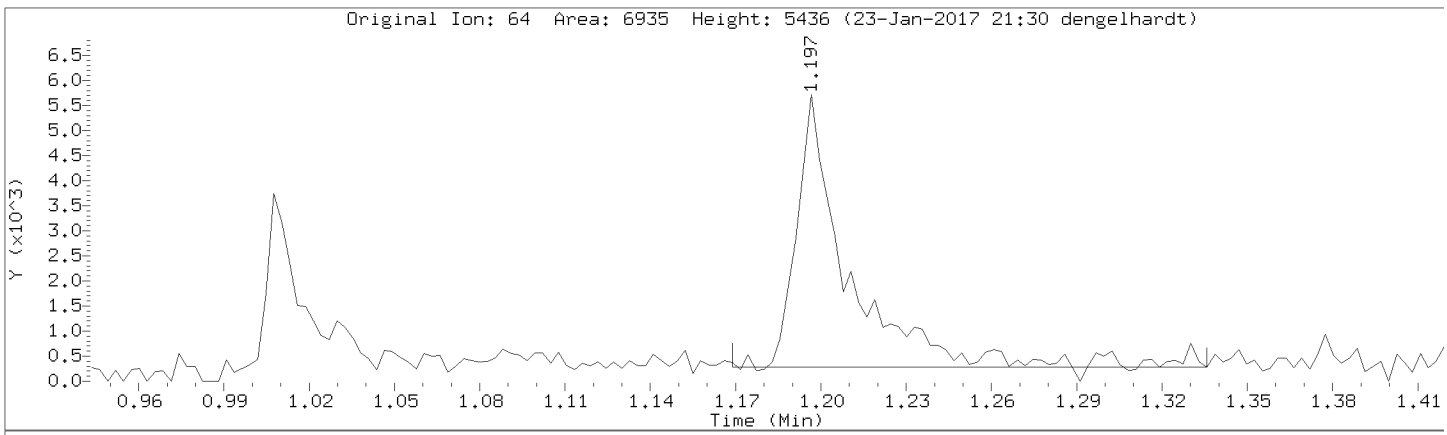
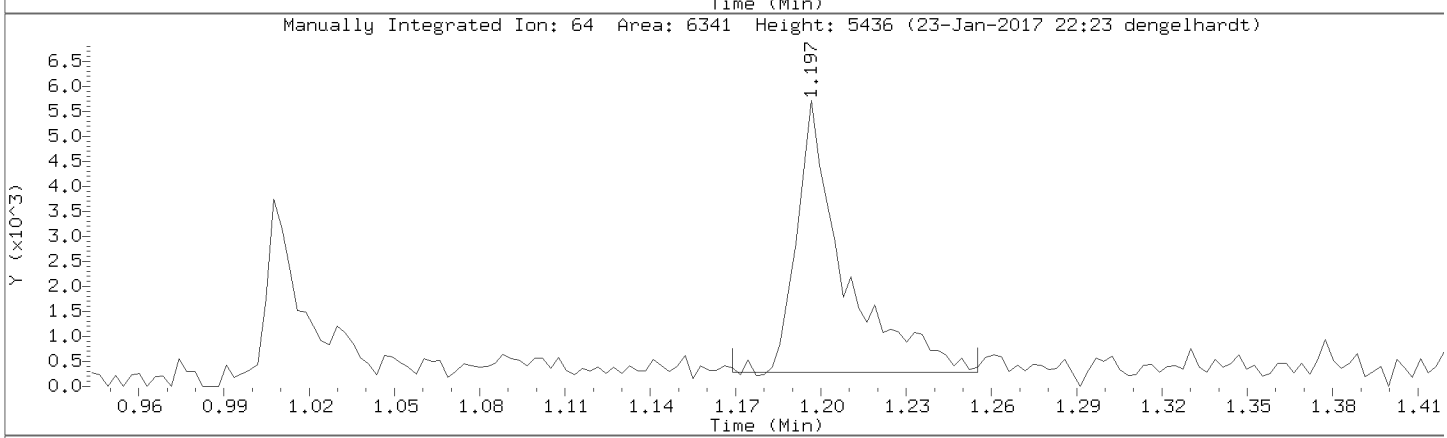
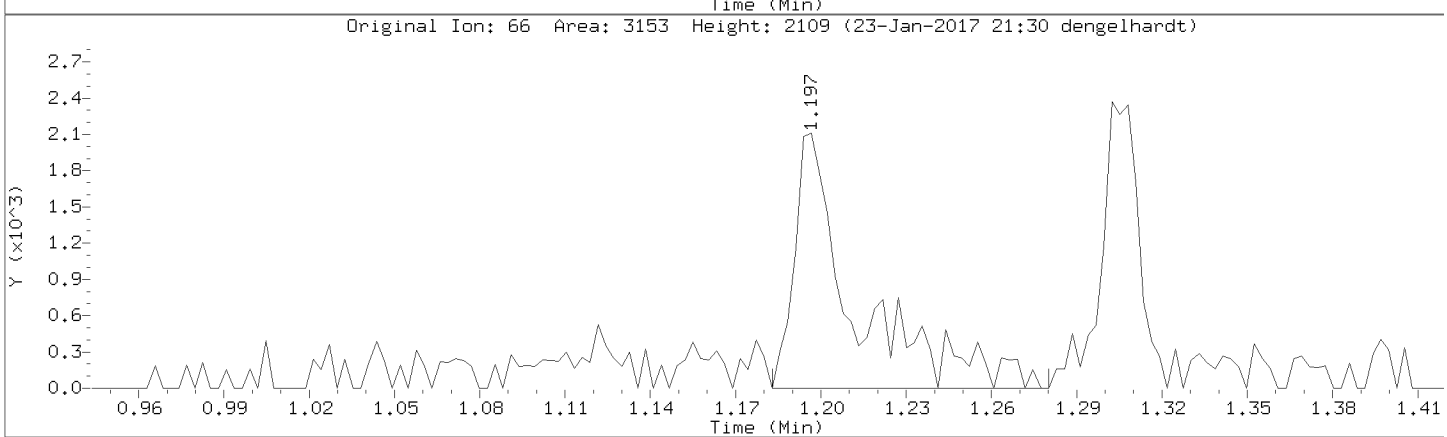
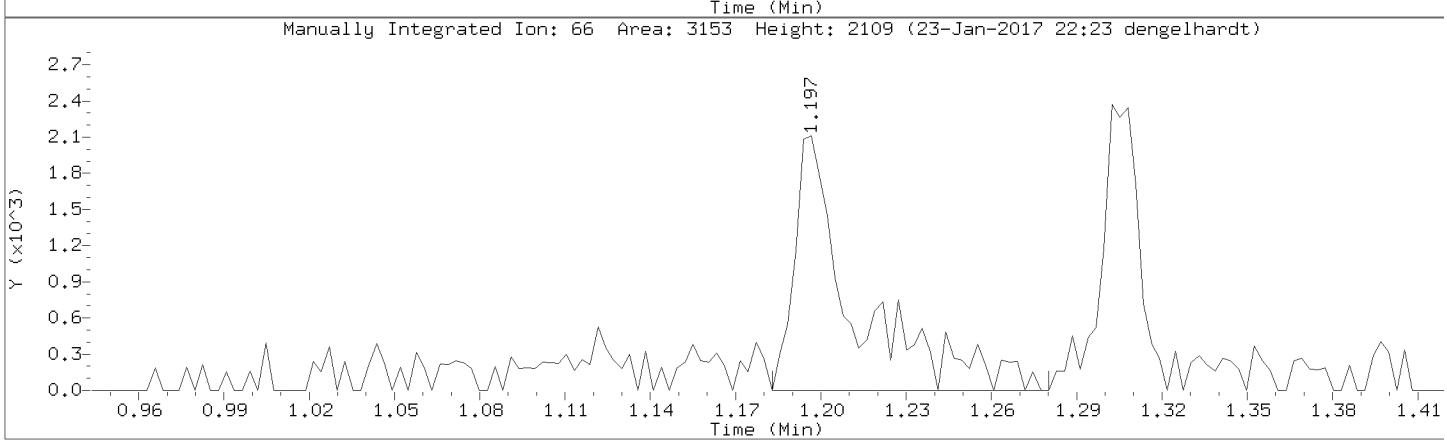
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3



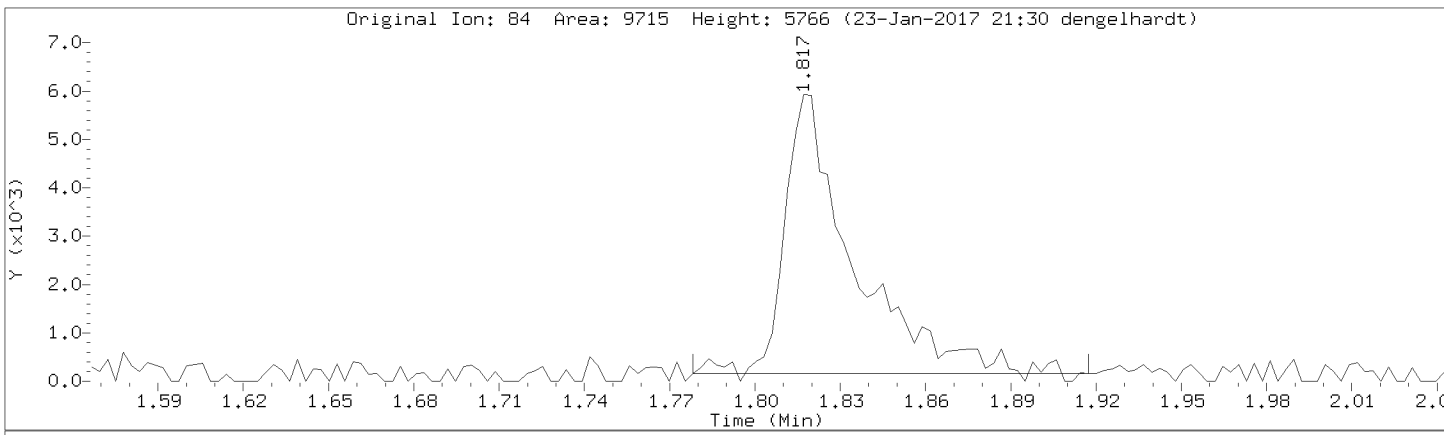


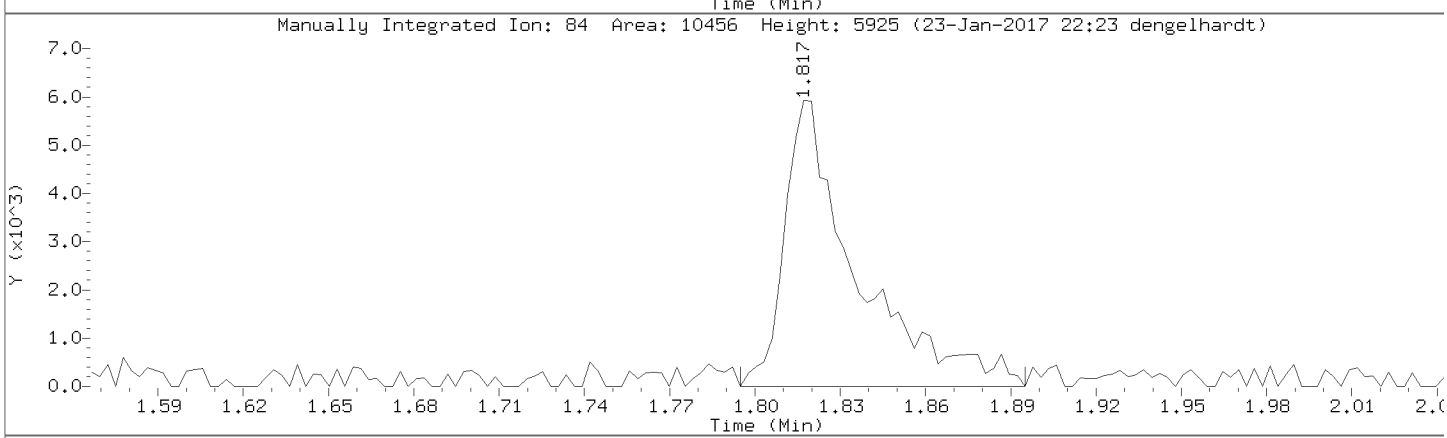


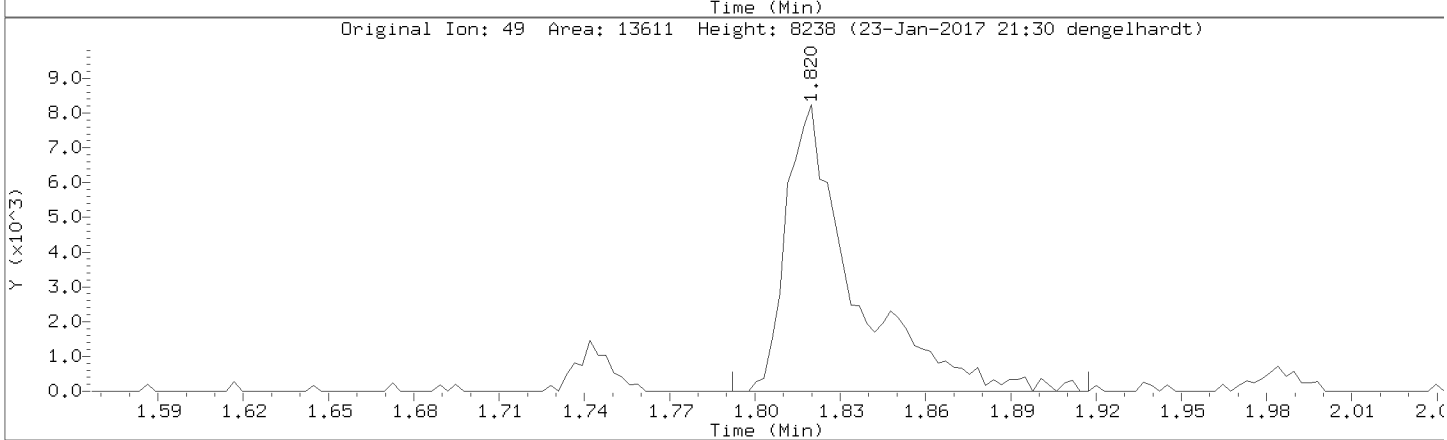


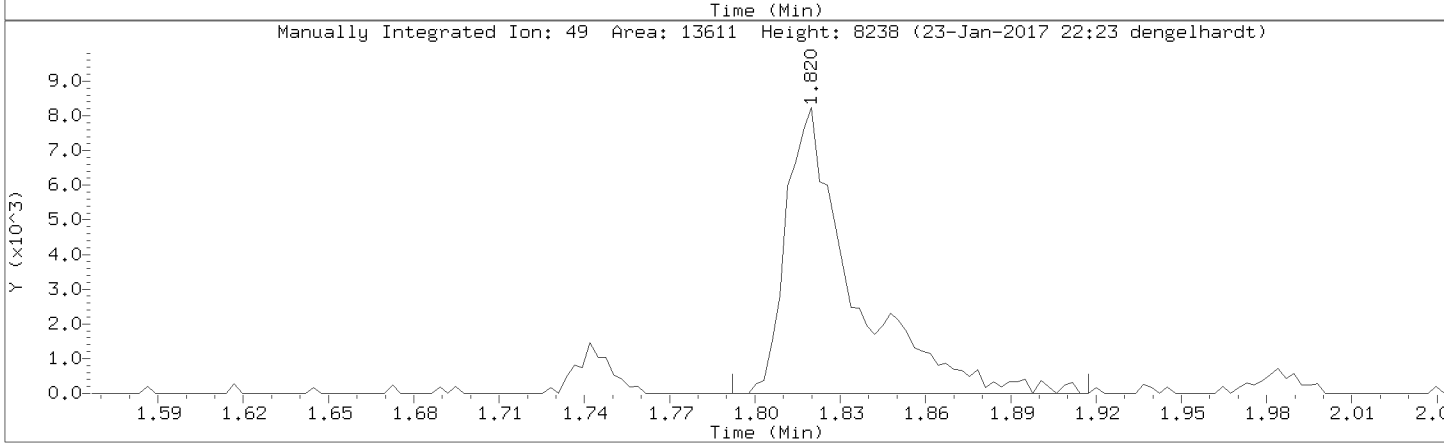
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b04cal4.d
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Methylene Chloride Review Code: LT
CAS Number: 75-09-2









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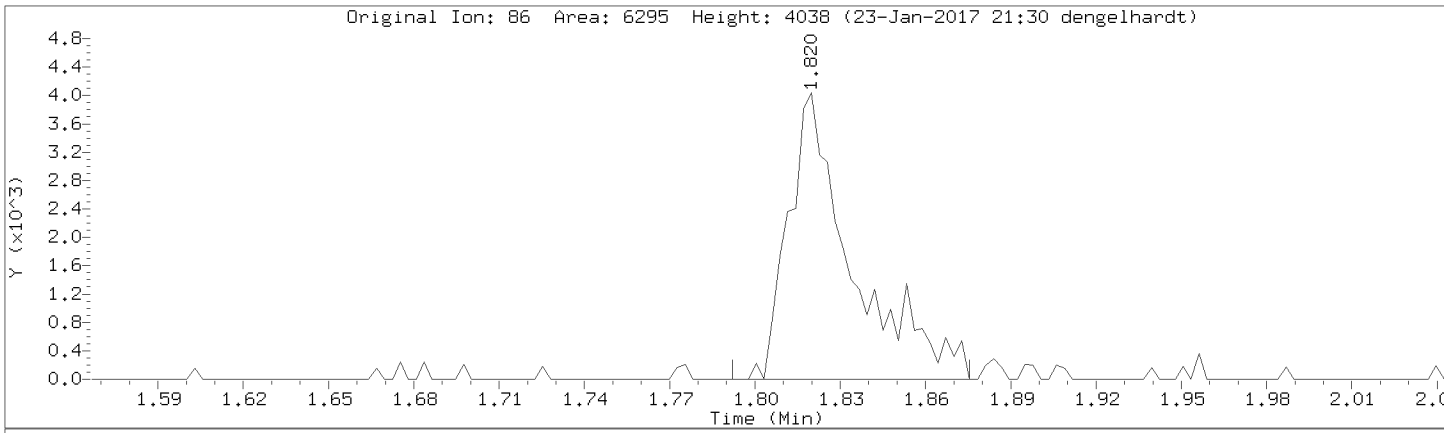
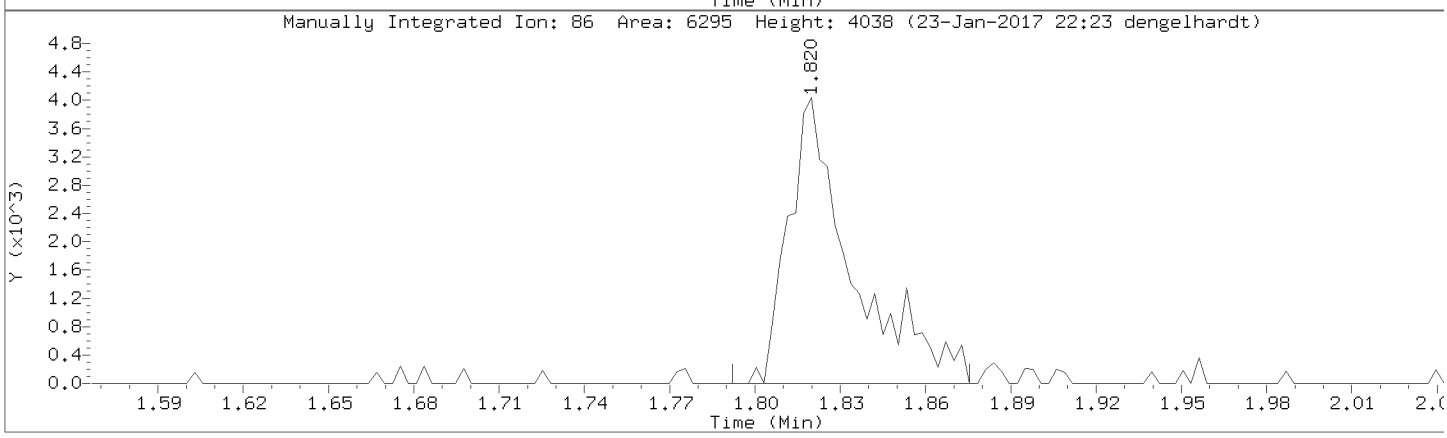
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4





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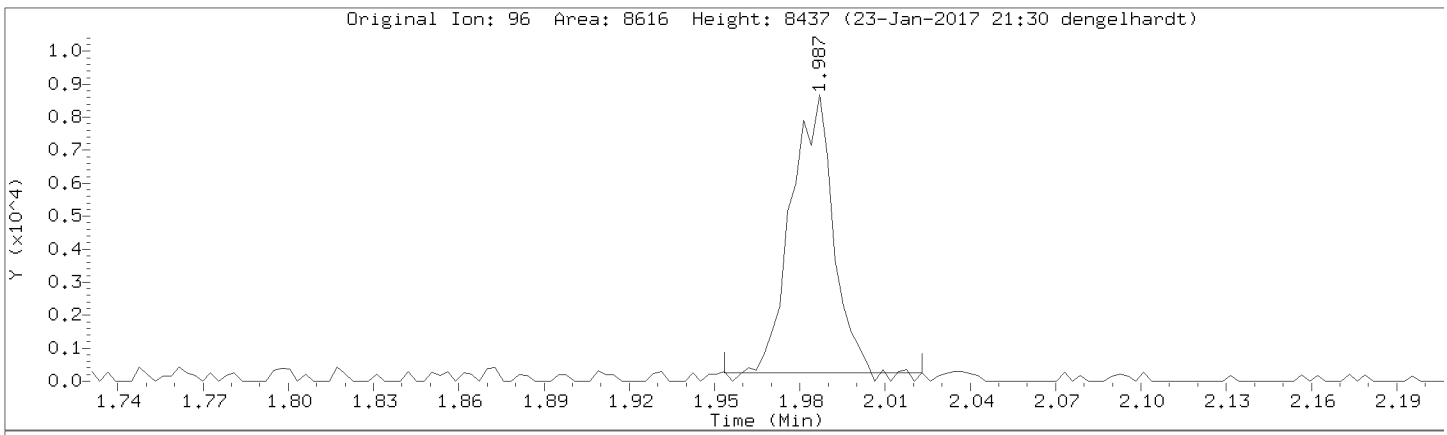
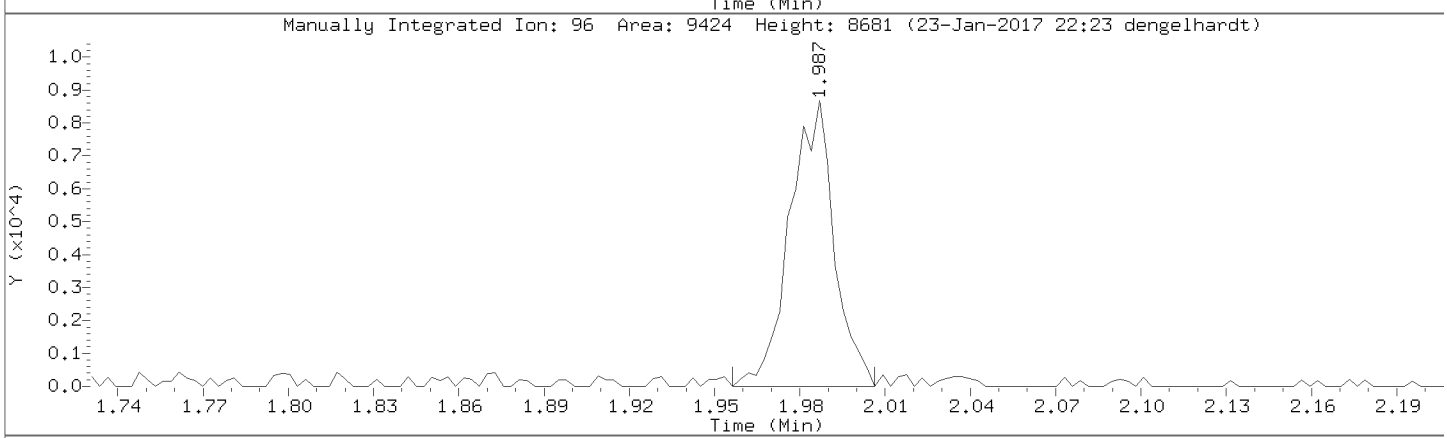
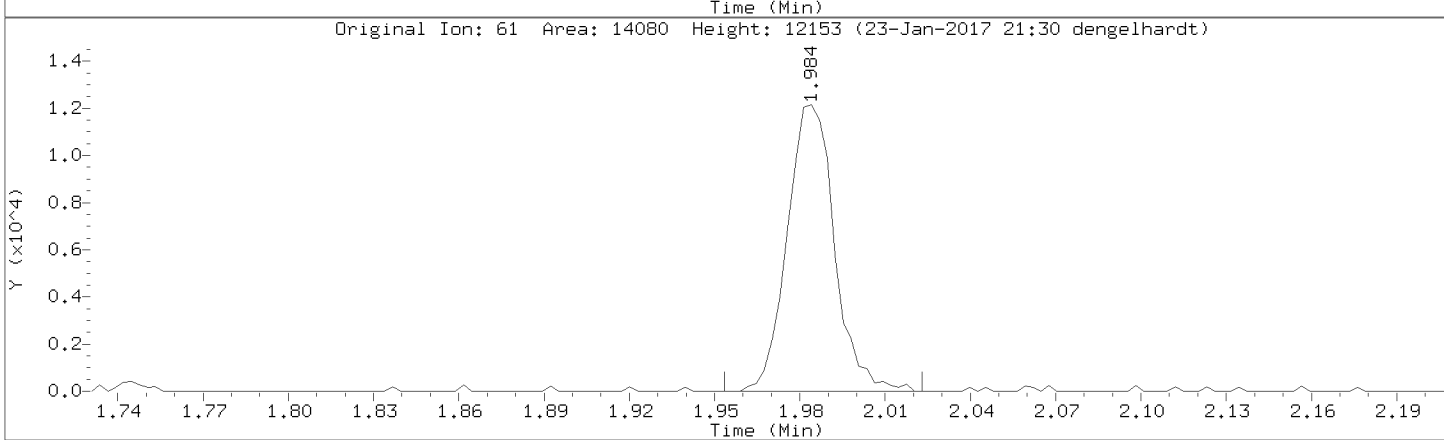
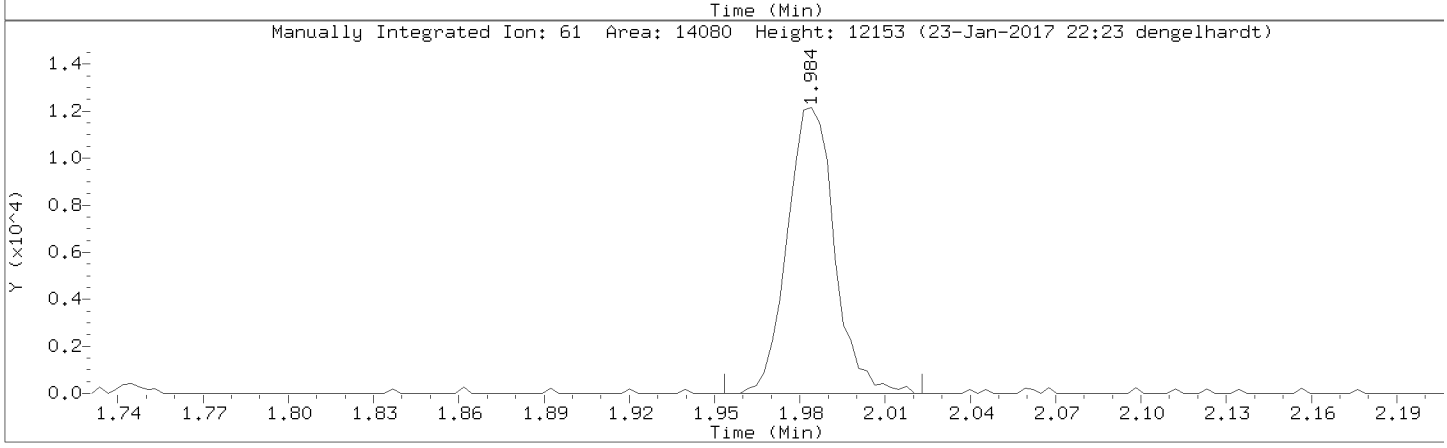
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dichloroethene (trans) Review Code: LT
CAS Number: 156-60-5









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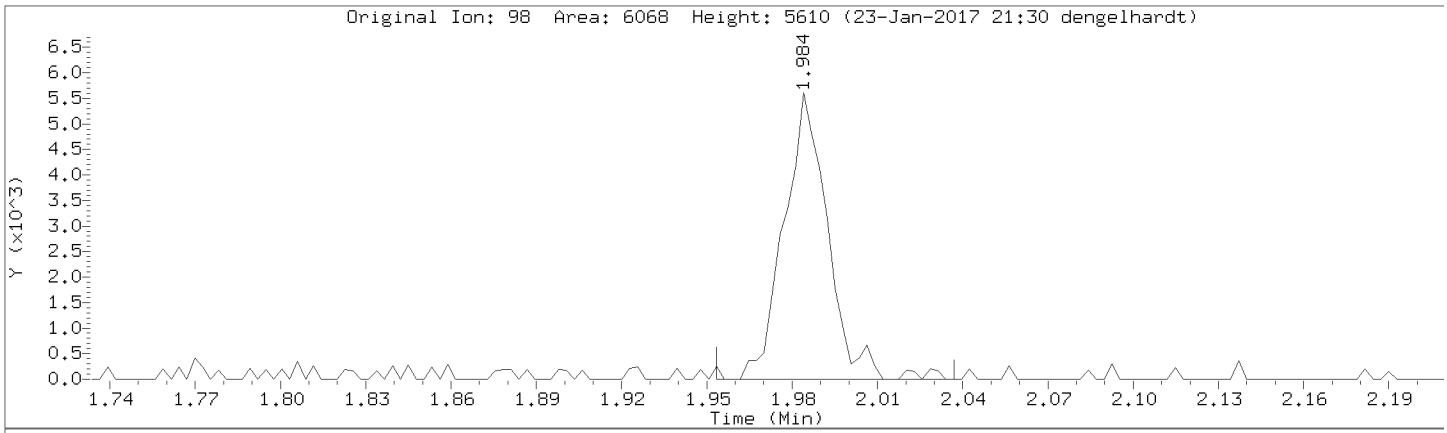
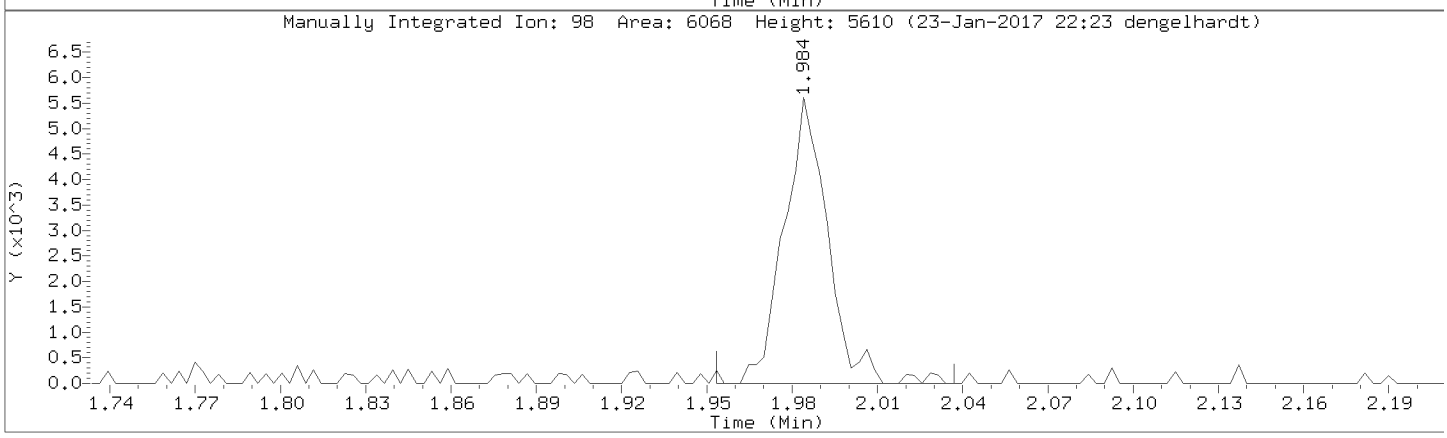
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4





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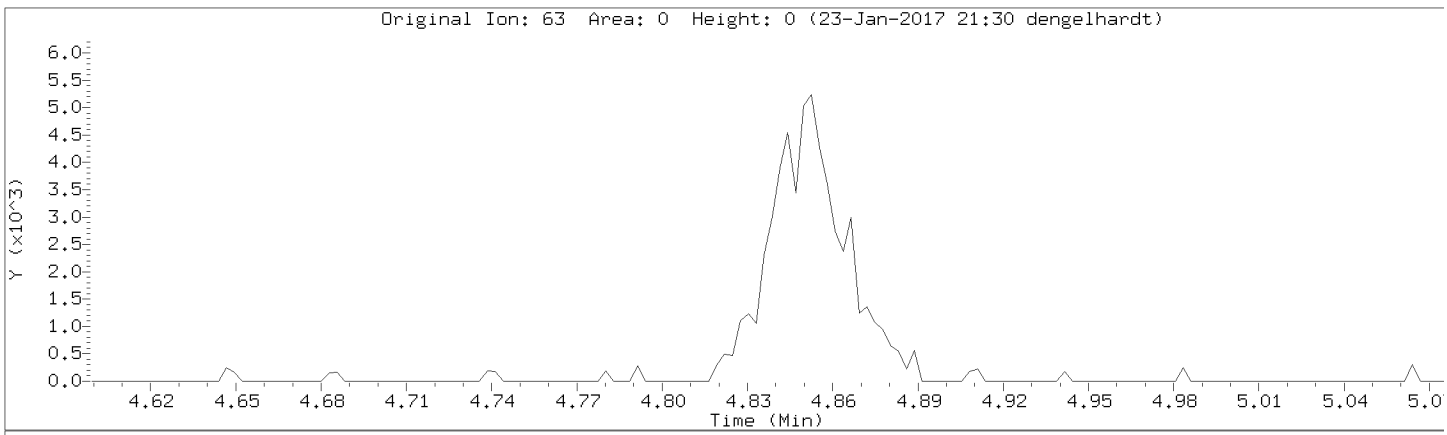
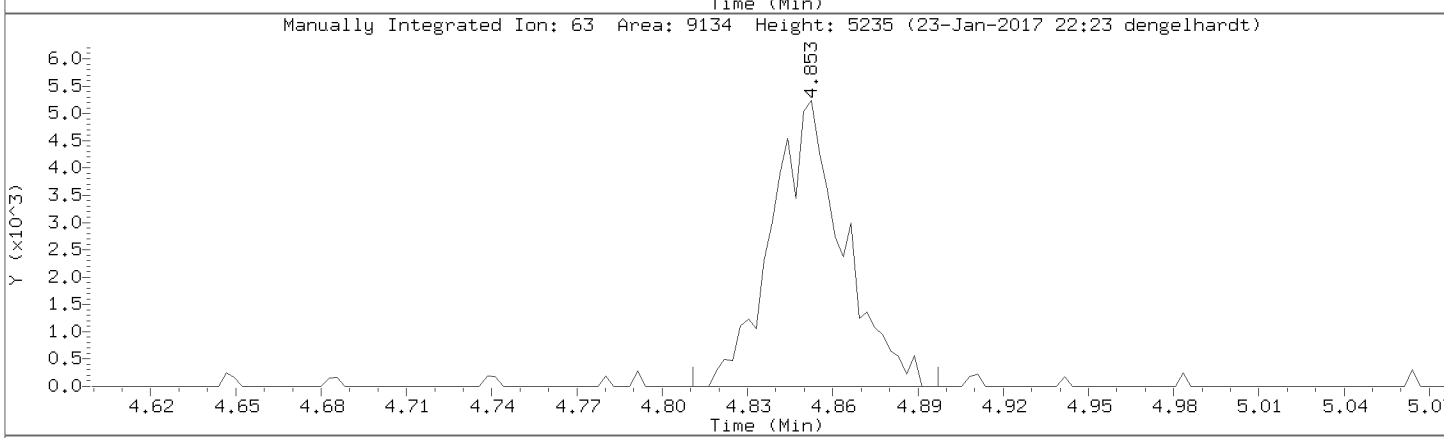
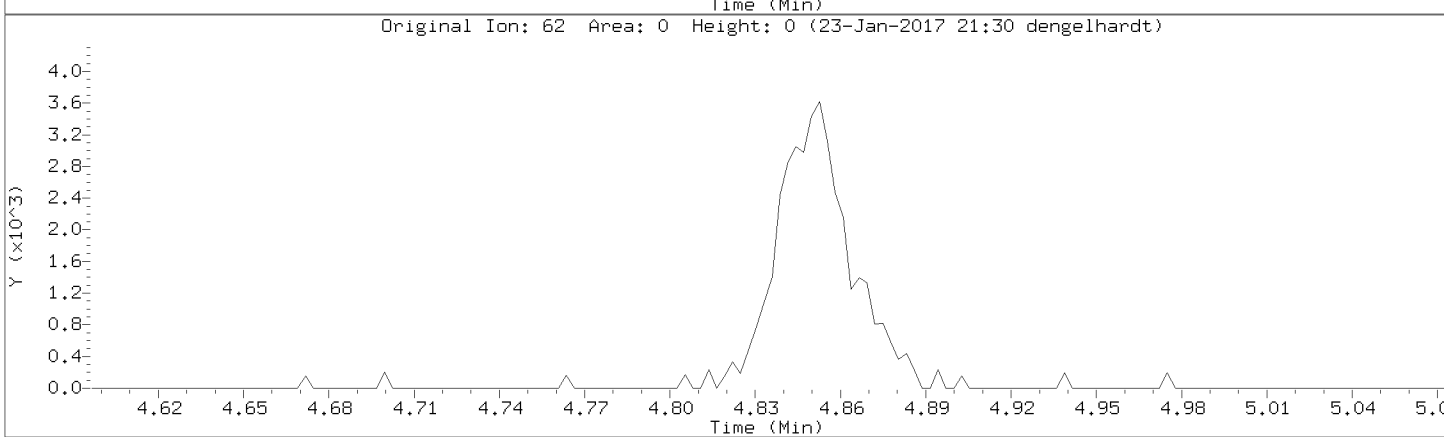
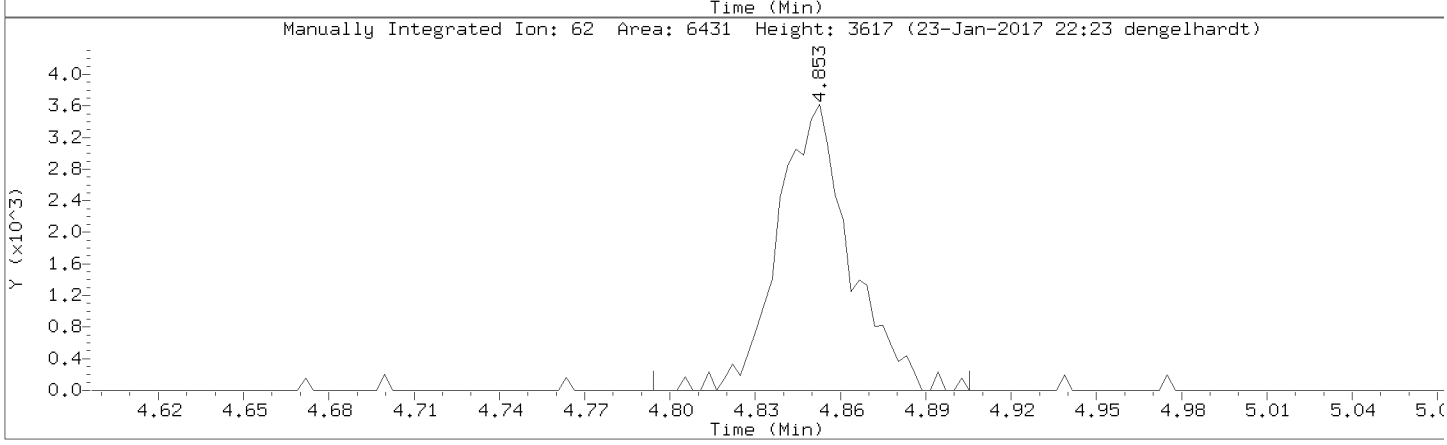
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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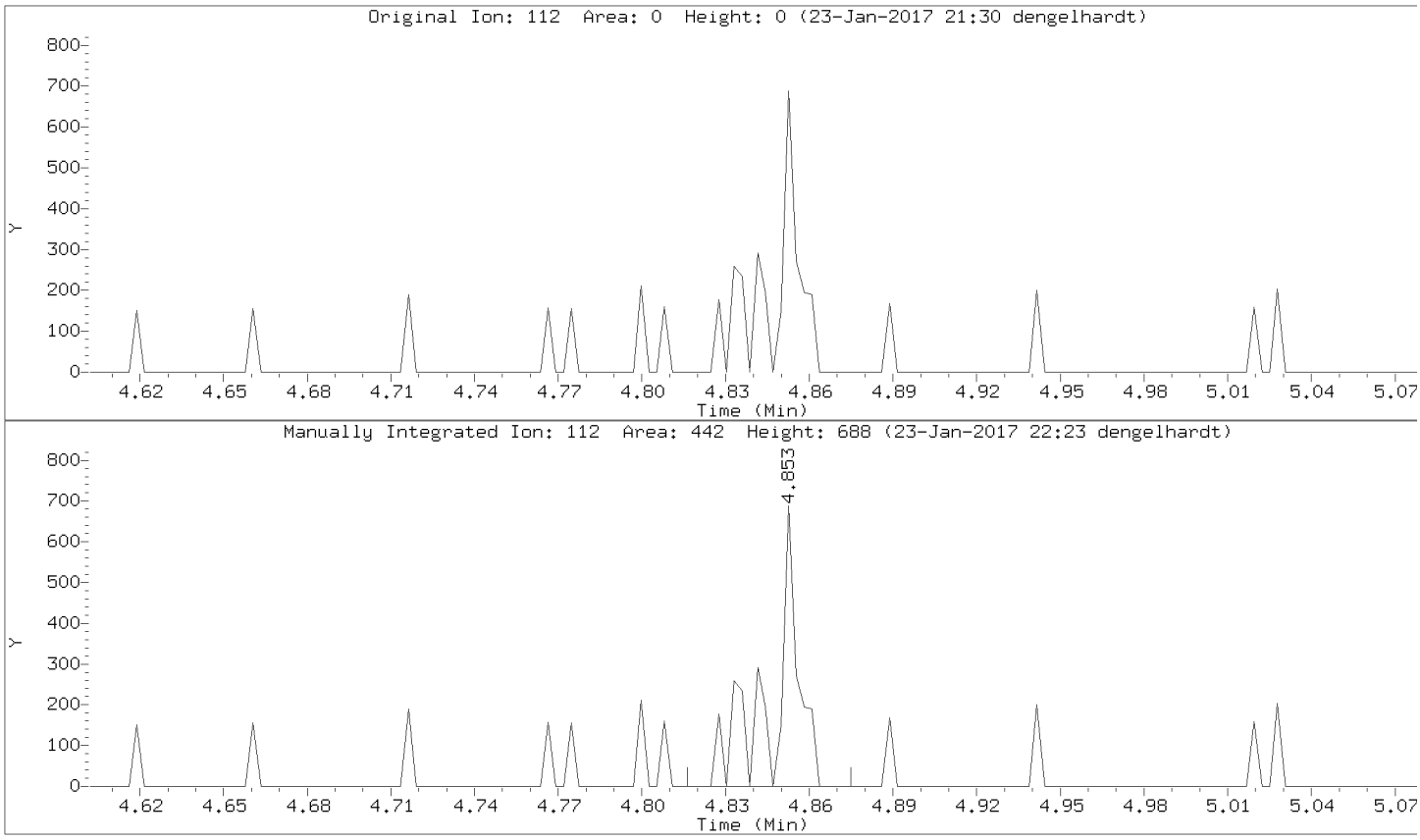
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4



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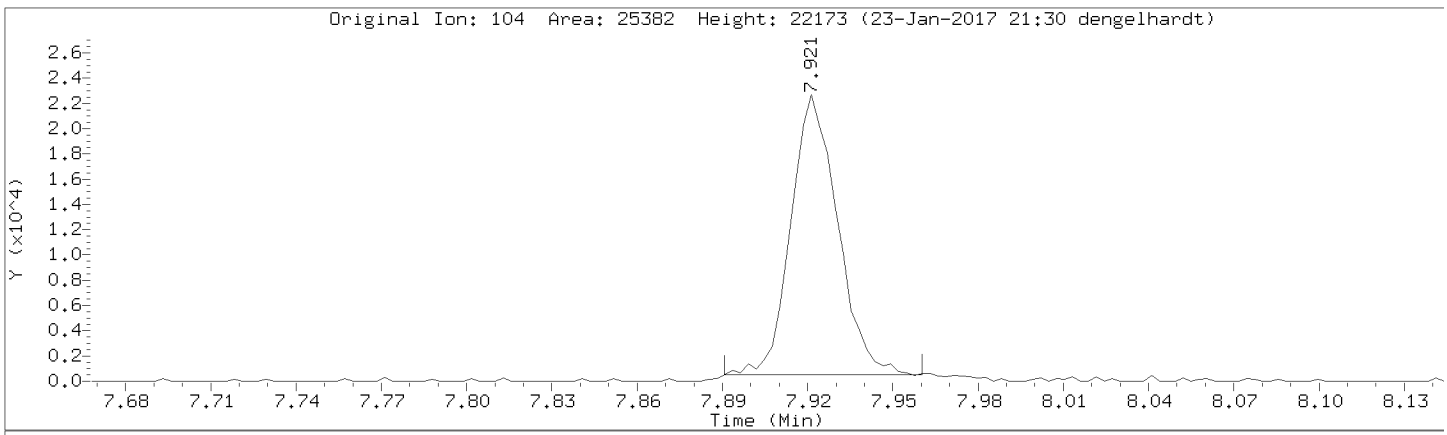
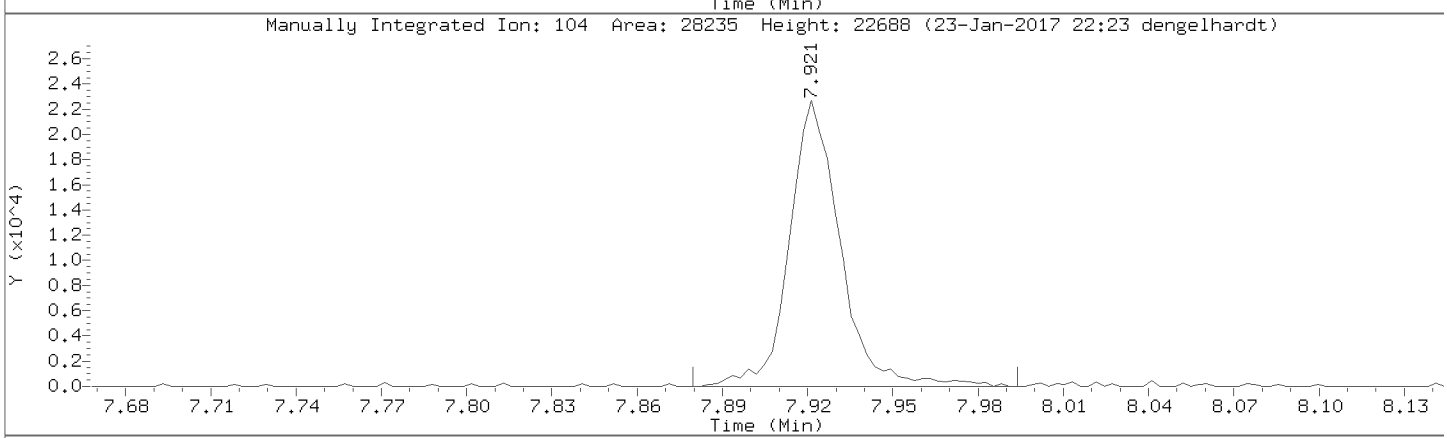
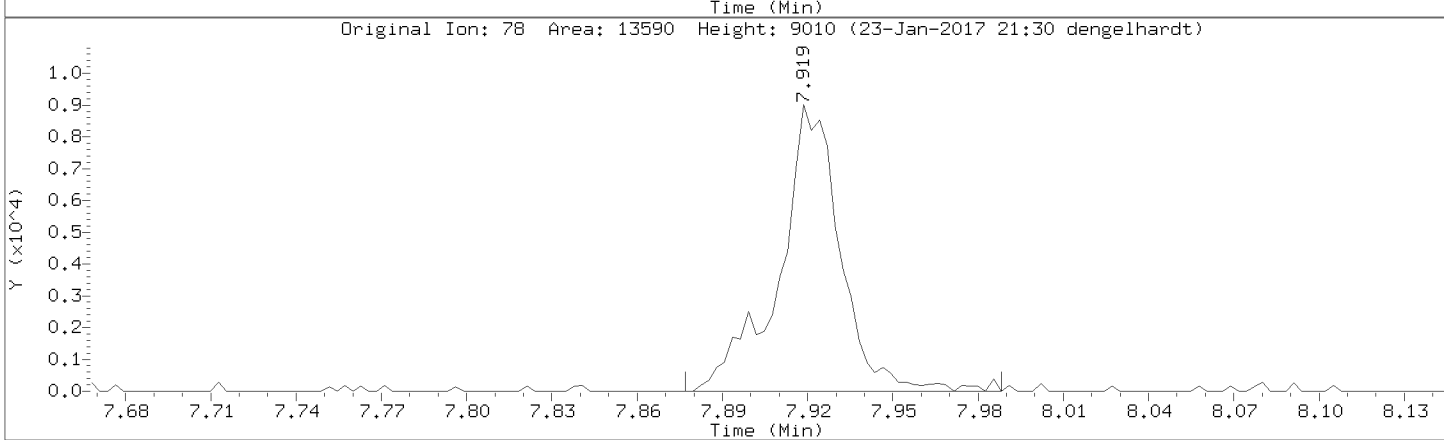
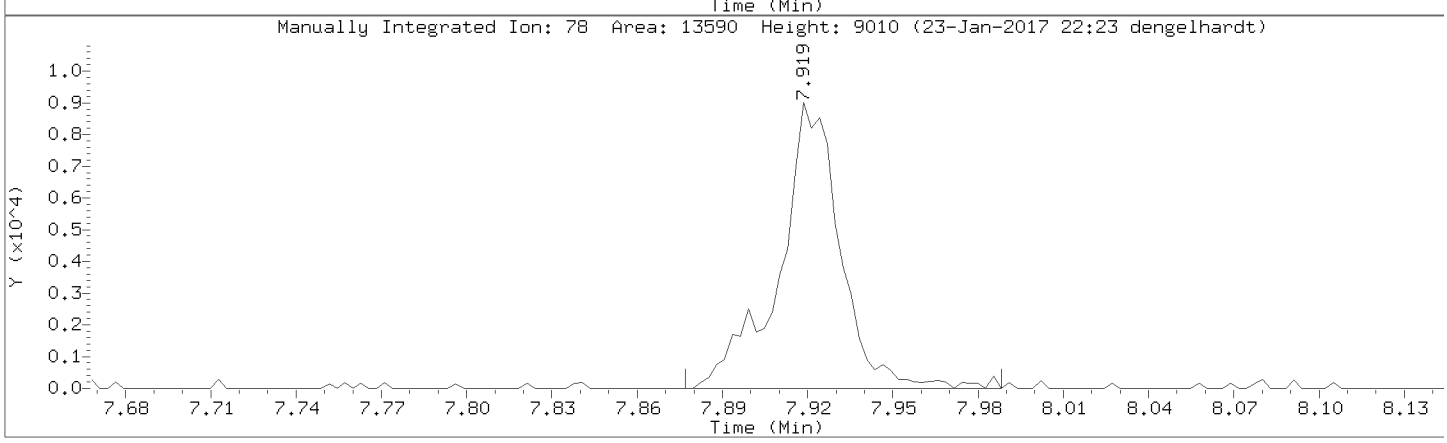
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Styrene Review Code: LT
CAS Number: 100-42-5









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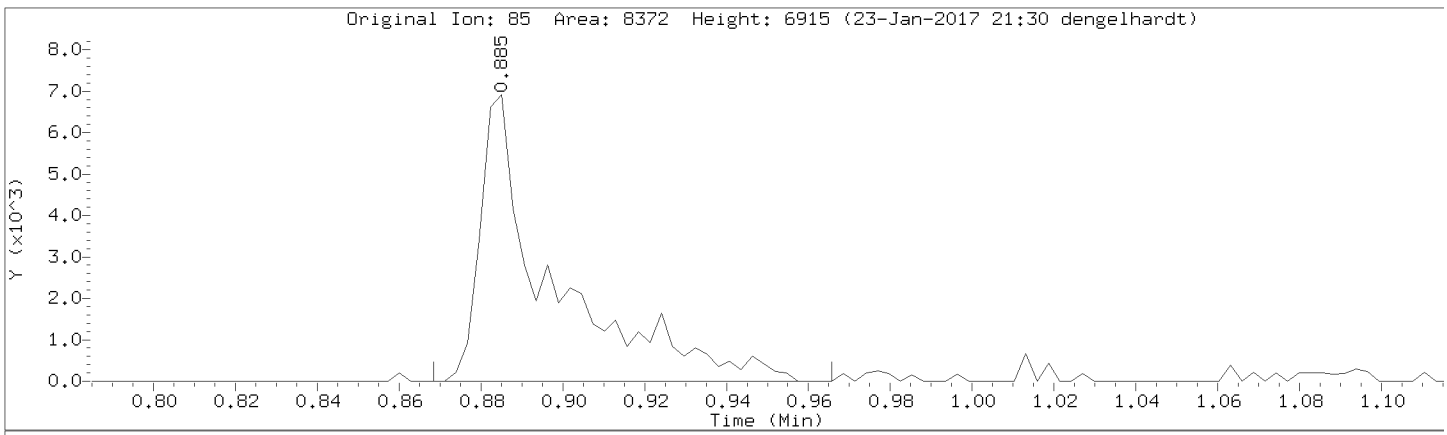
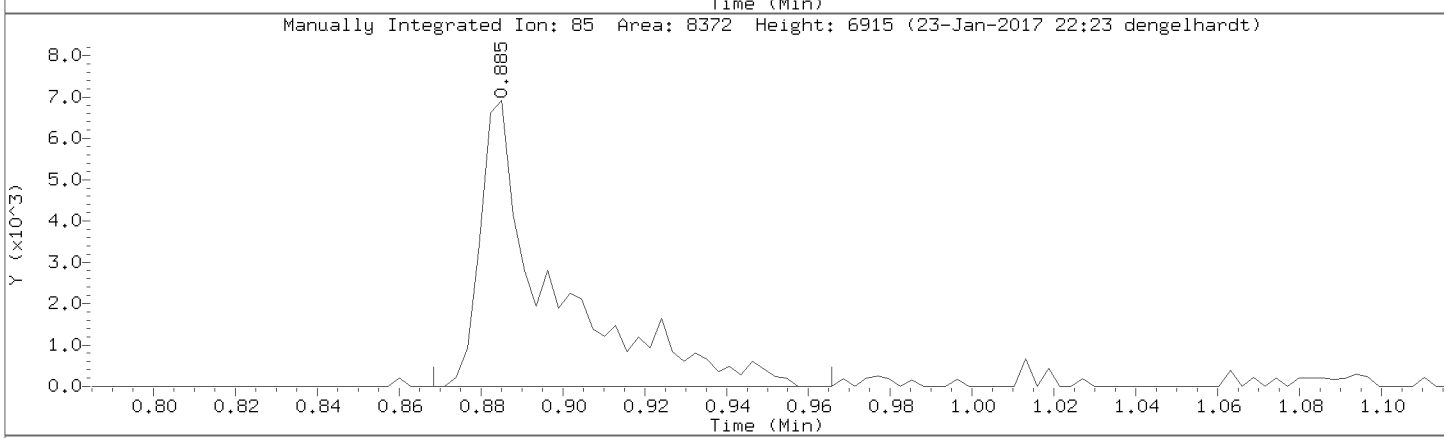
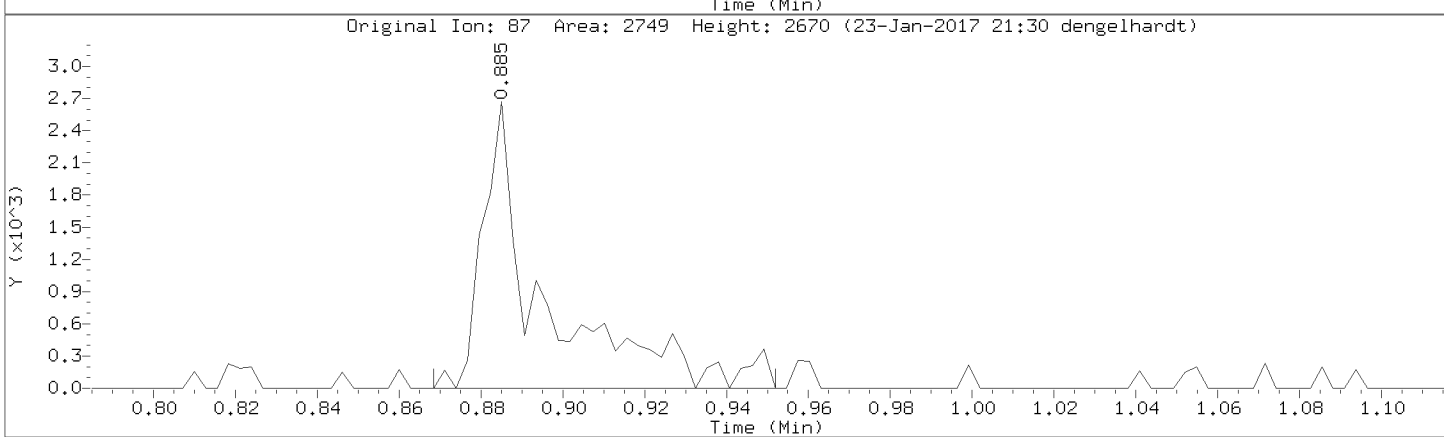
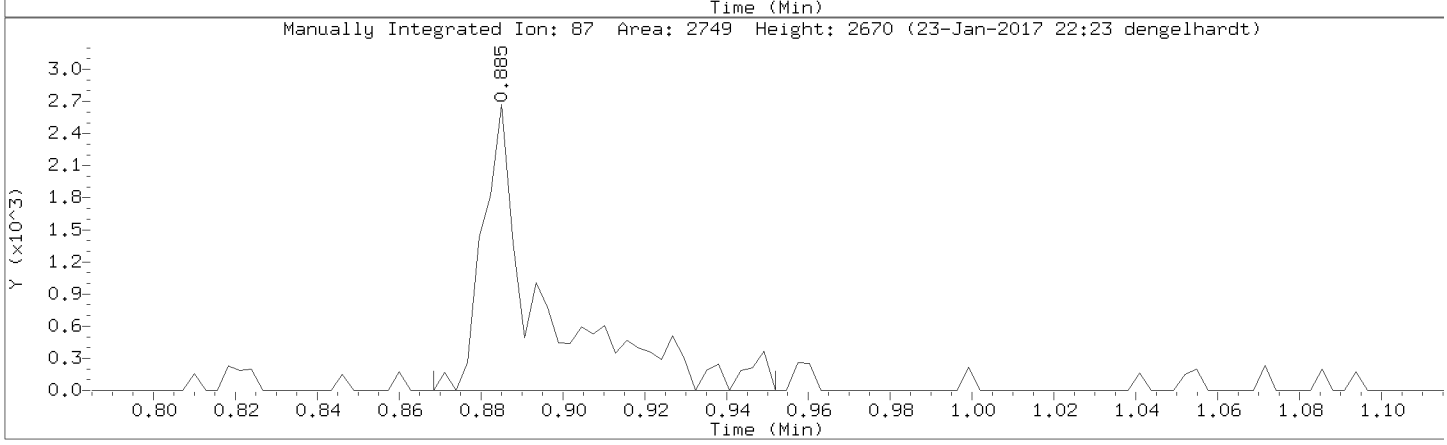
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 107-06-2









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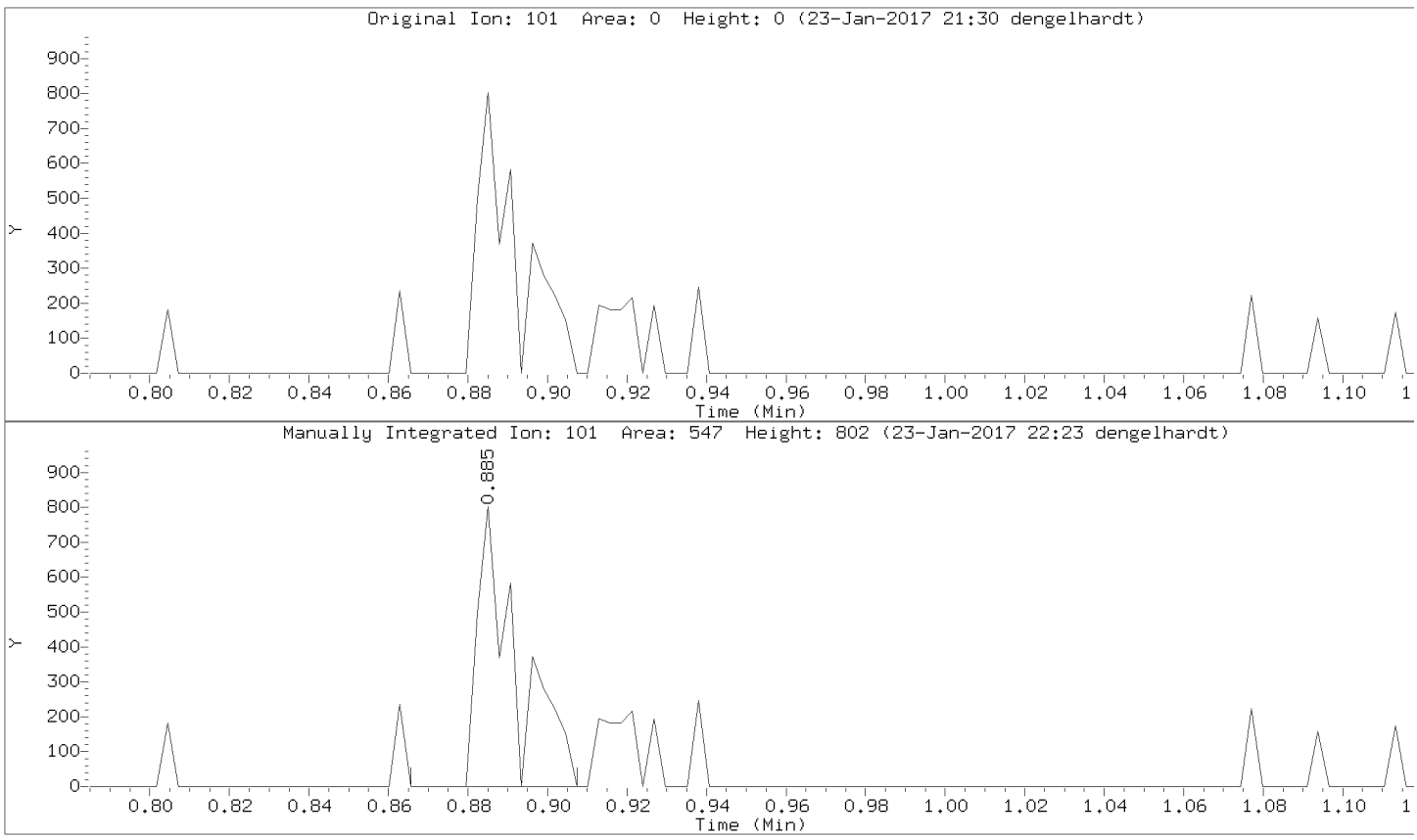
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4



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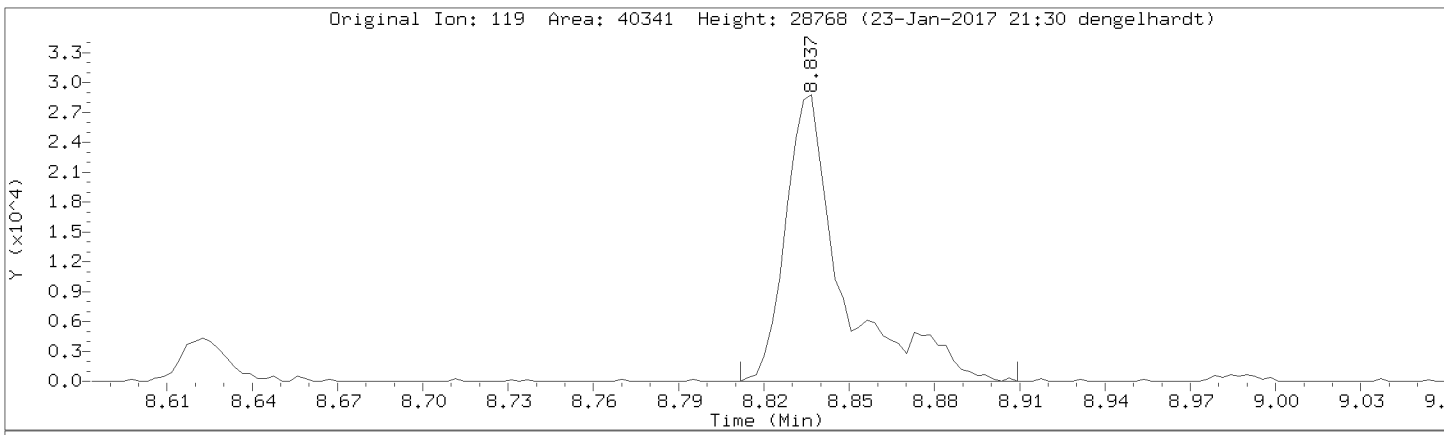
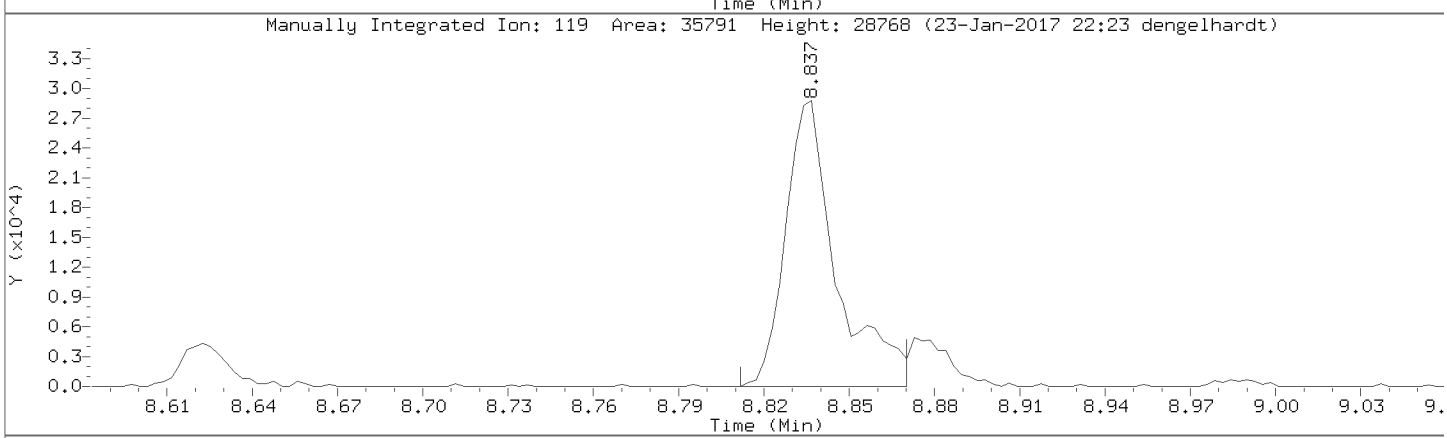
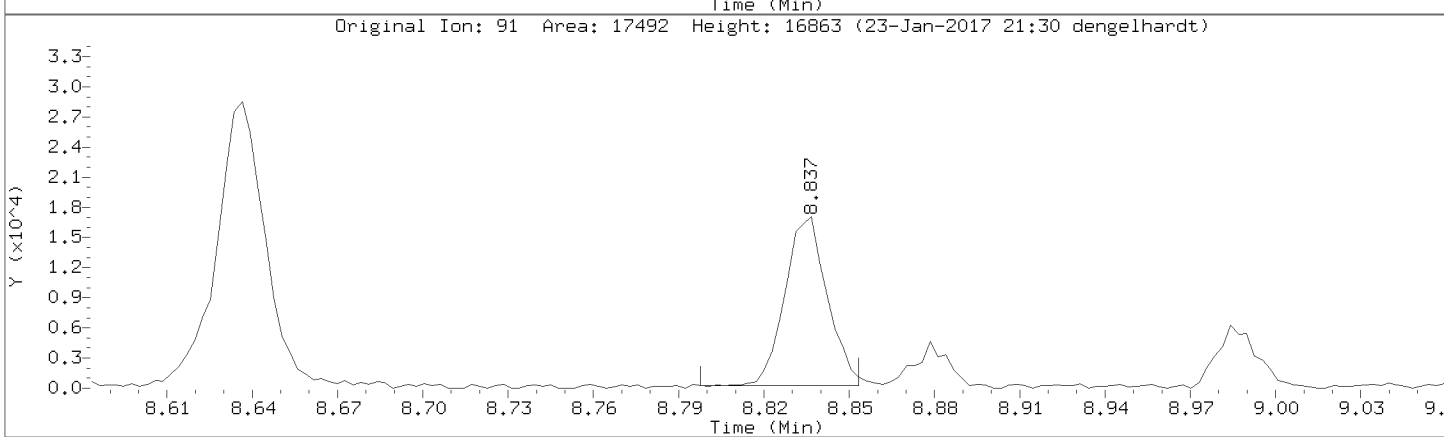
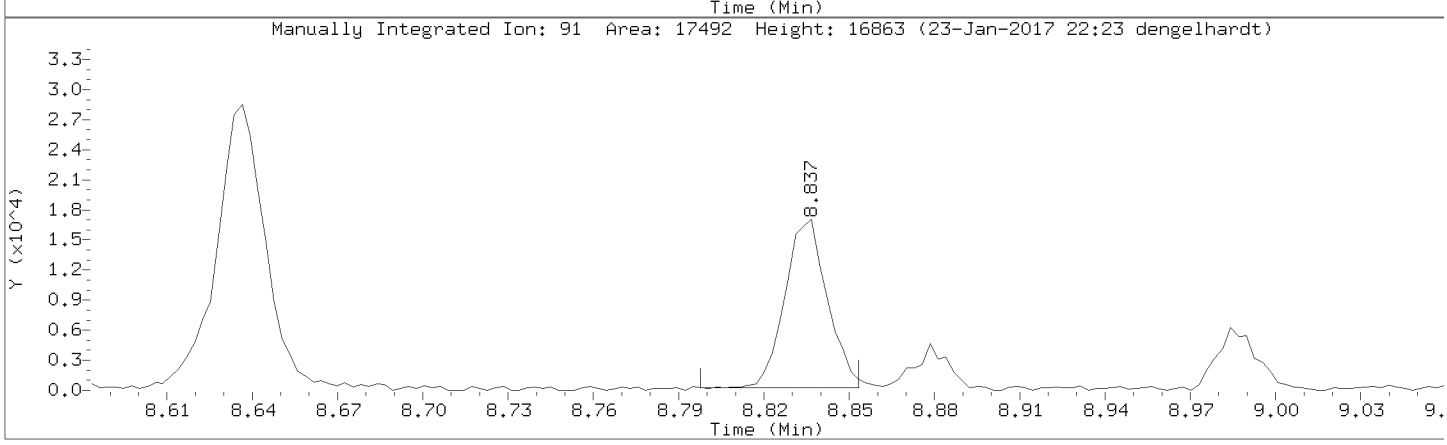
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butylbenzene Review Code: GT
CAS Number: 98-06-6









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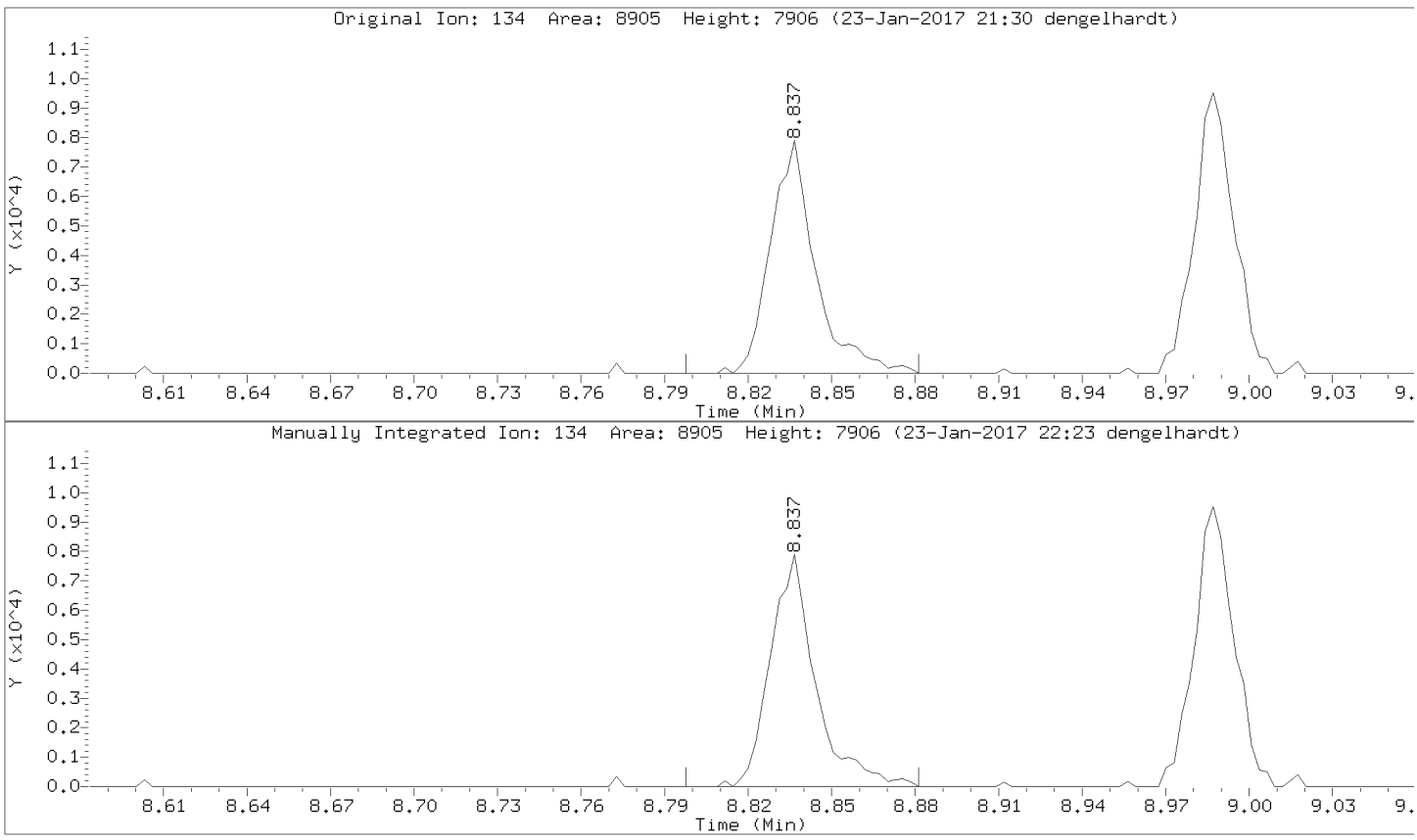
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4



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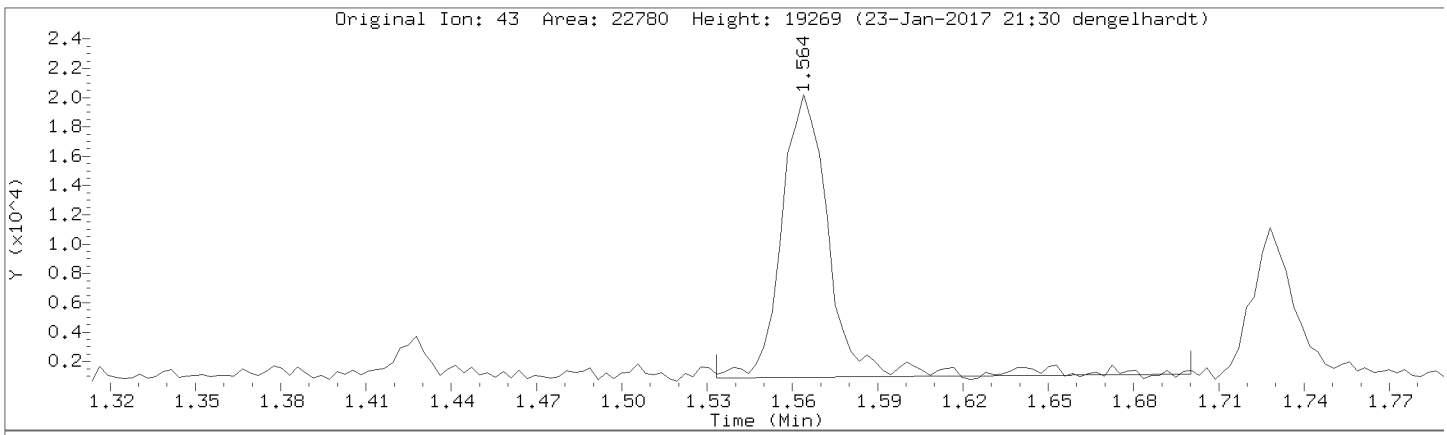
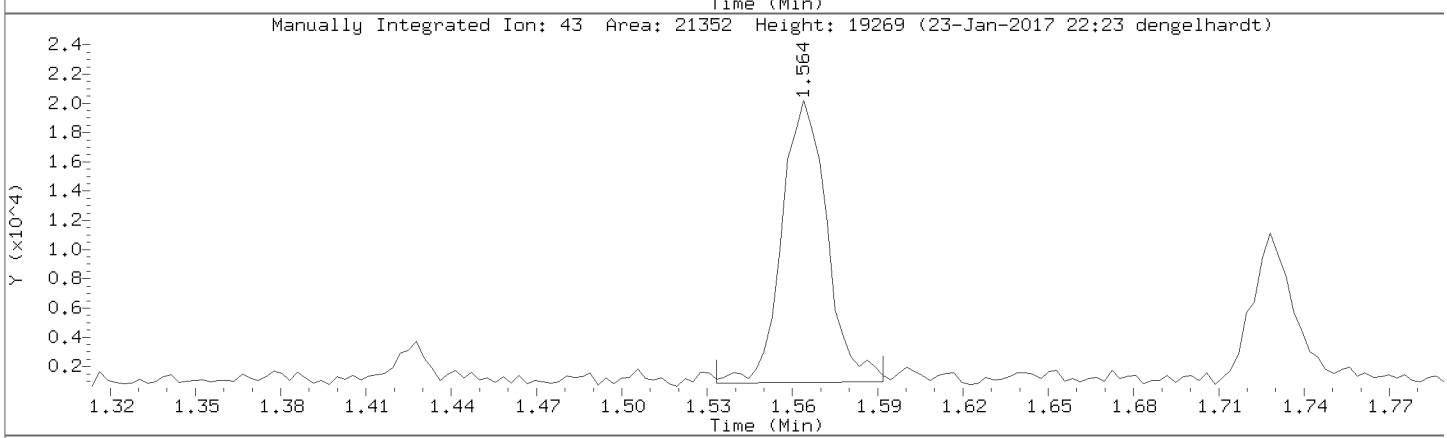
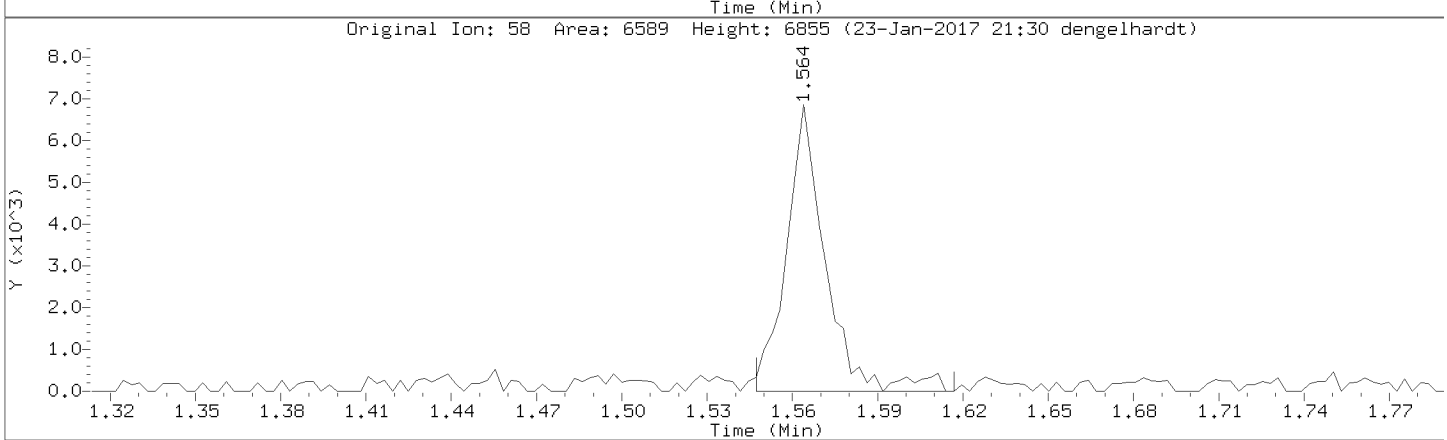
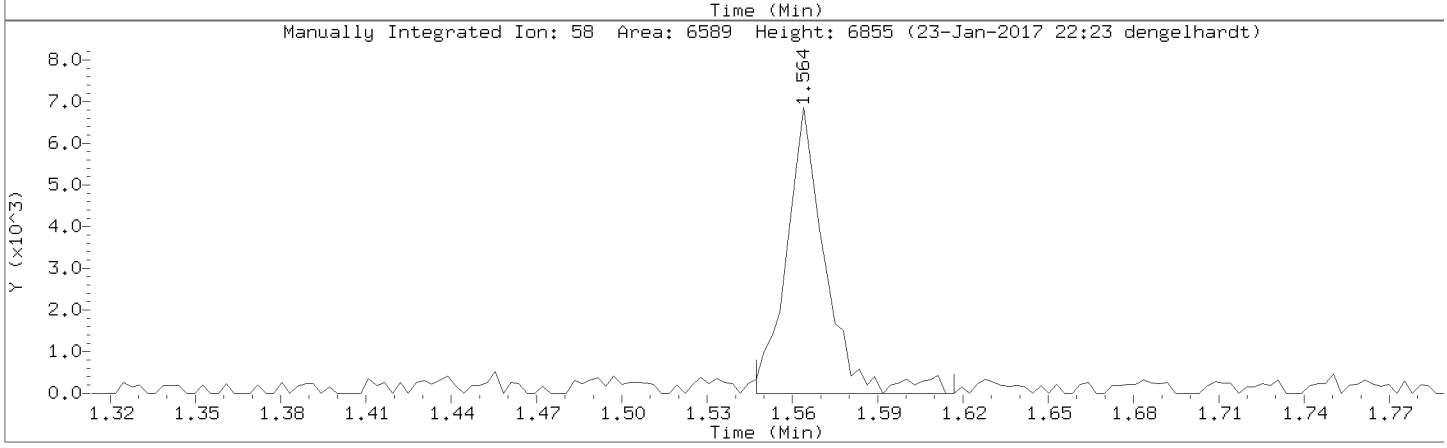
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Acetone Review Code: GT
CAS Number: 67-64-1



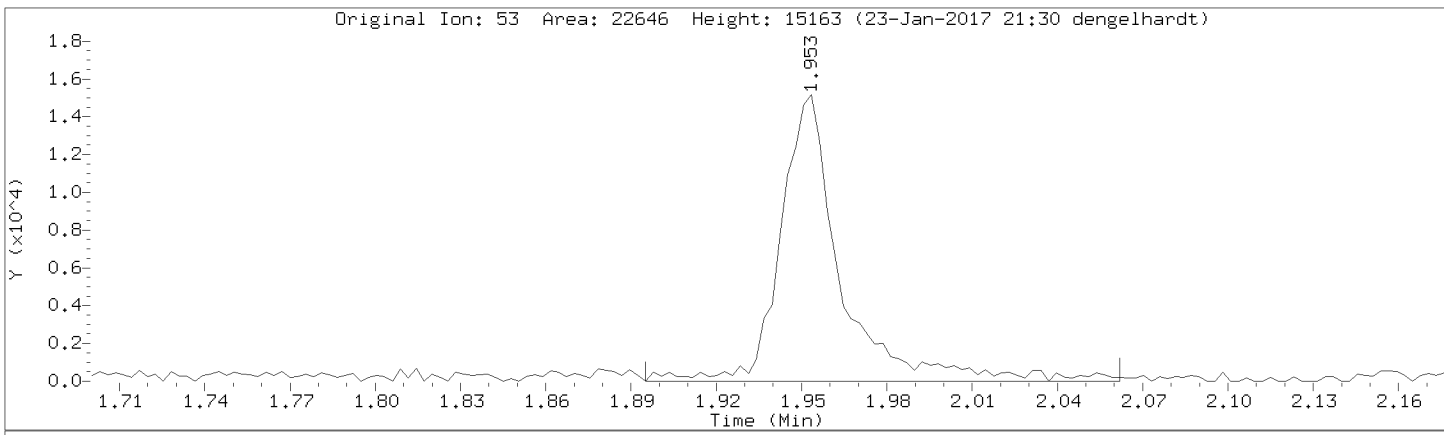


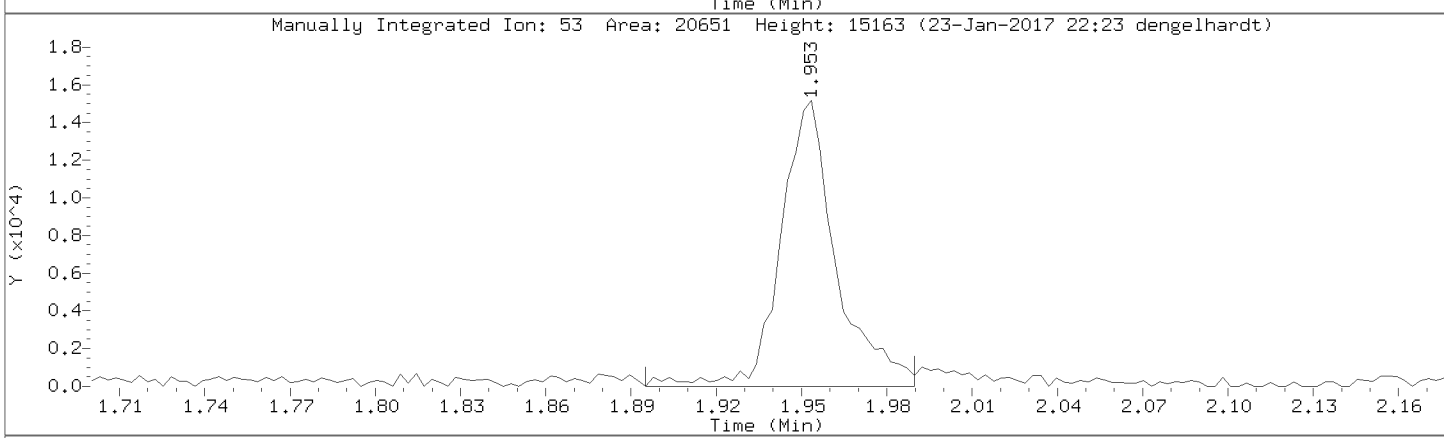


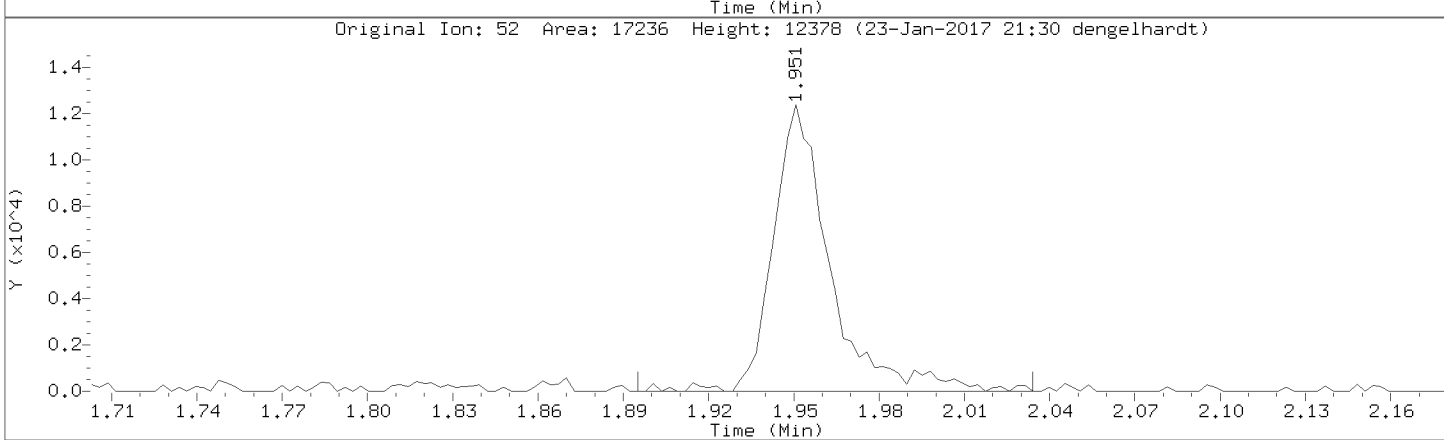


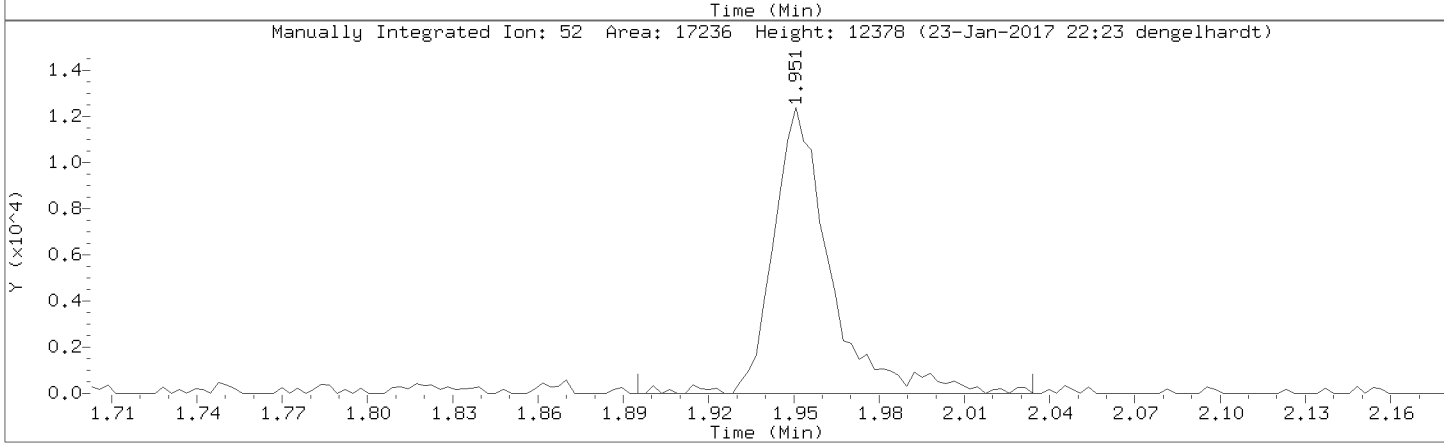
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b04cal4.d
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Acrylonitrile Review Code: GT
CAS Number: 107-13-1









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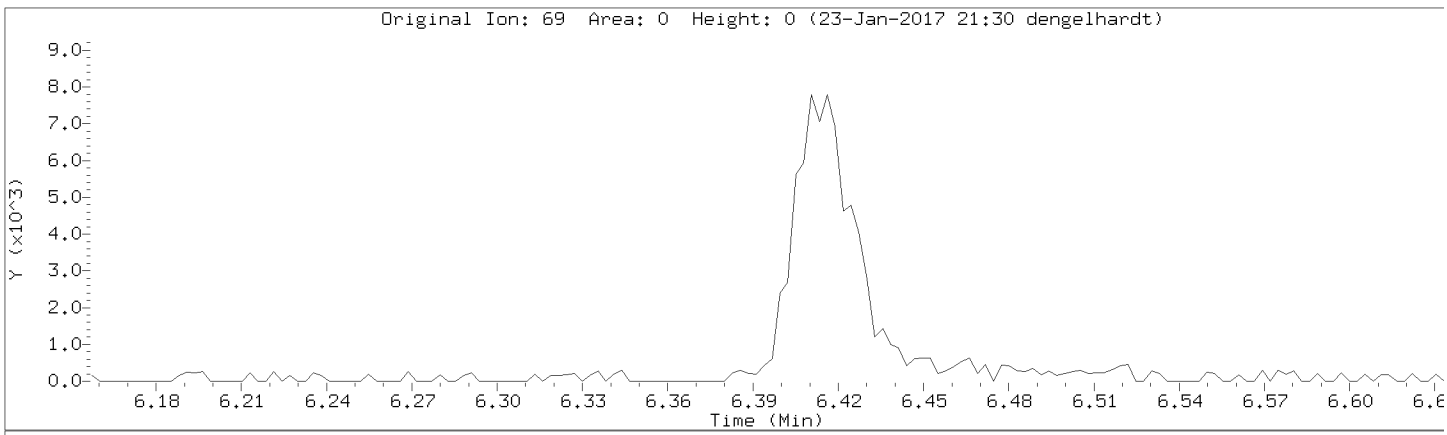
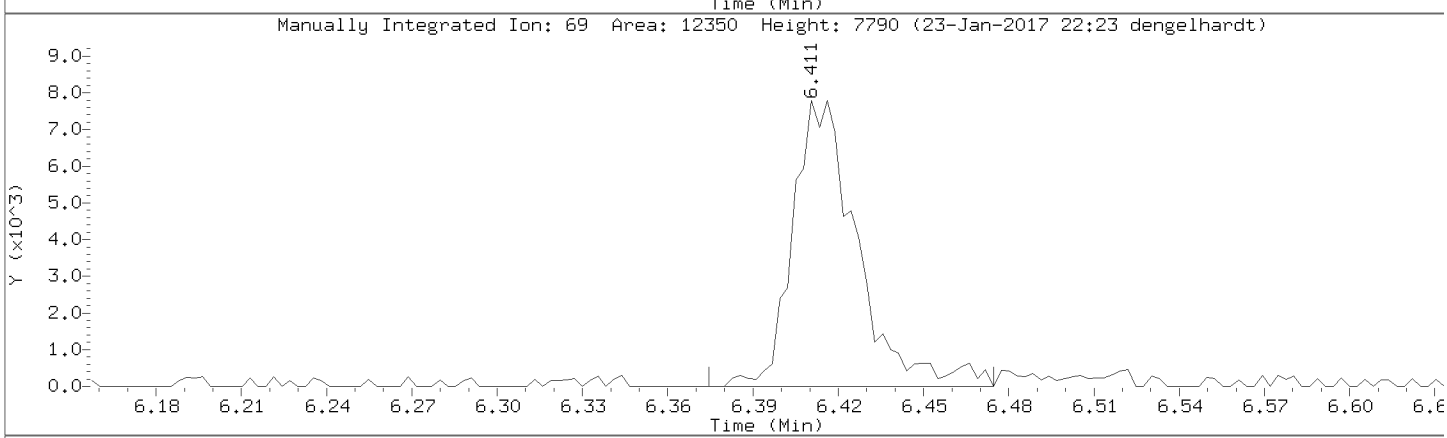
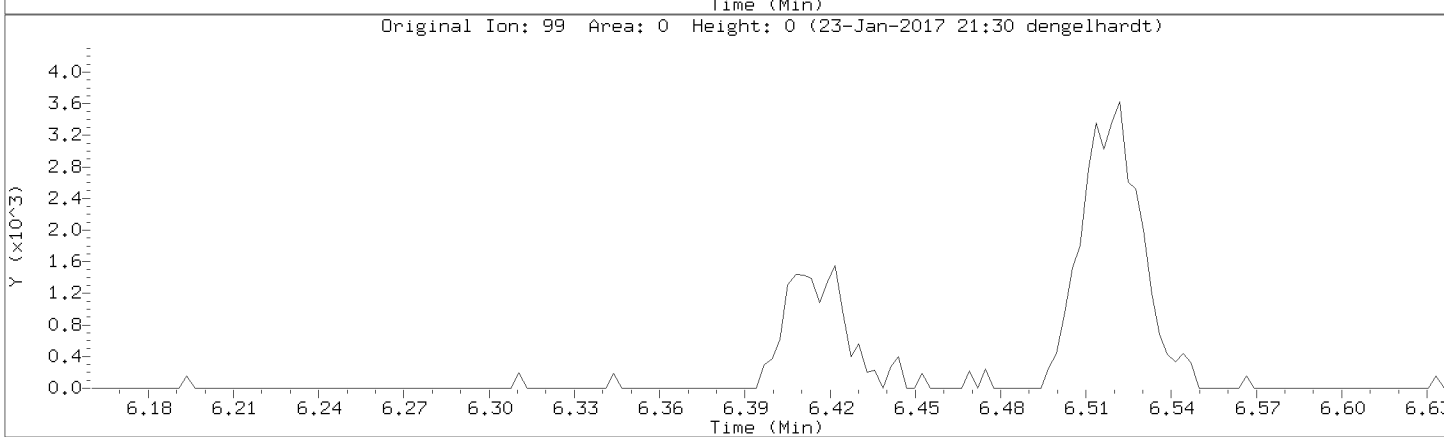
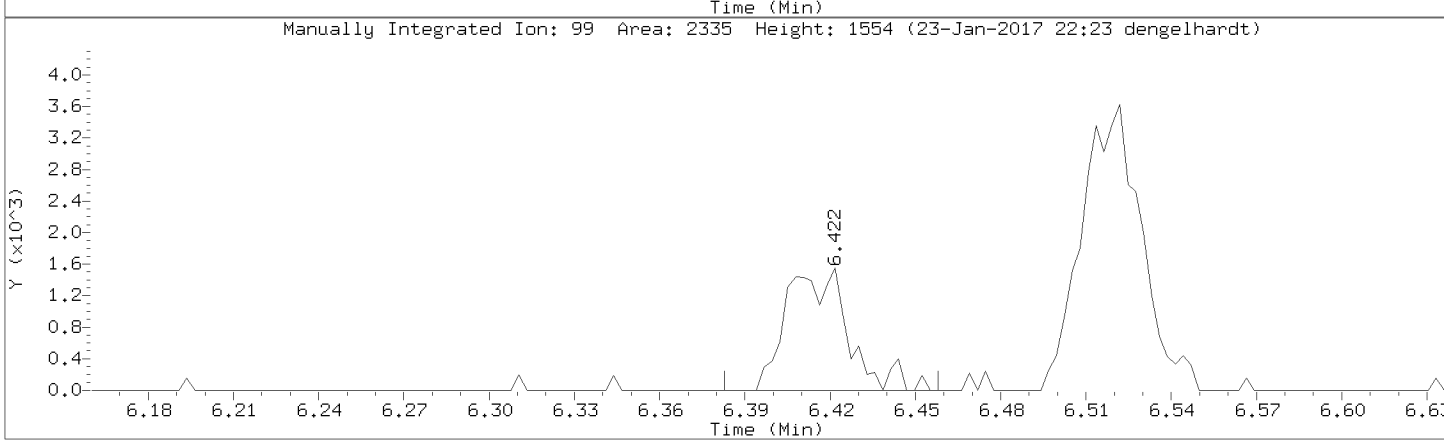
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:









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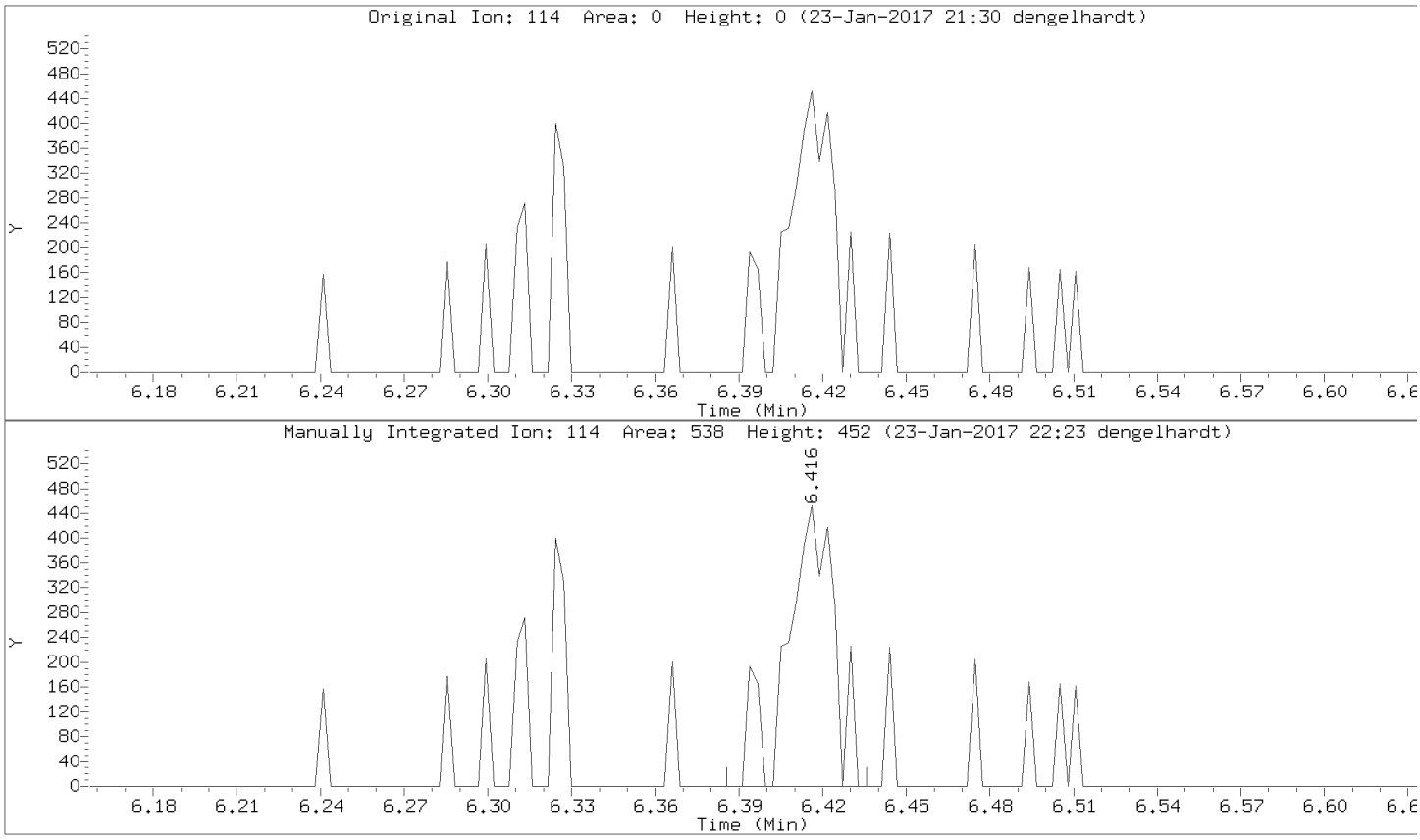
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4



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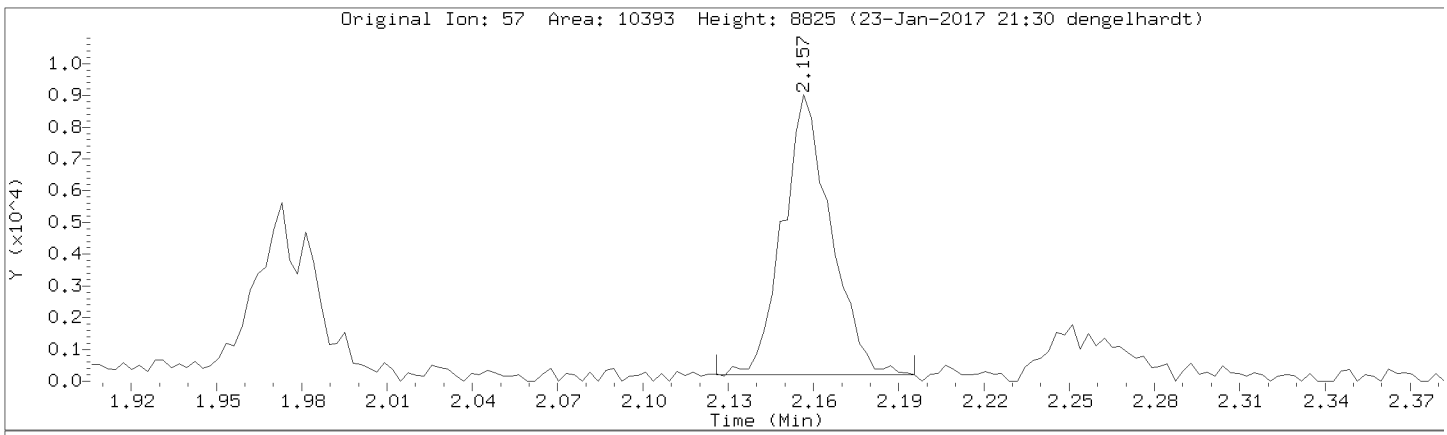
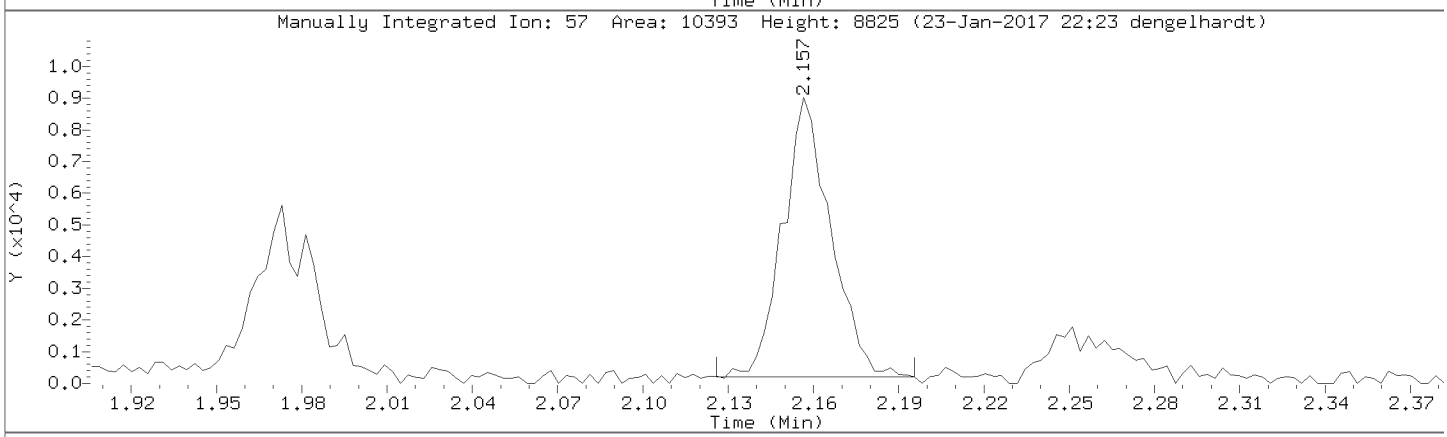
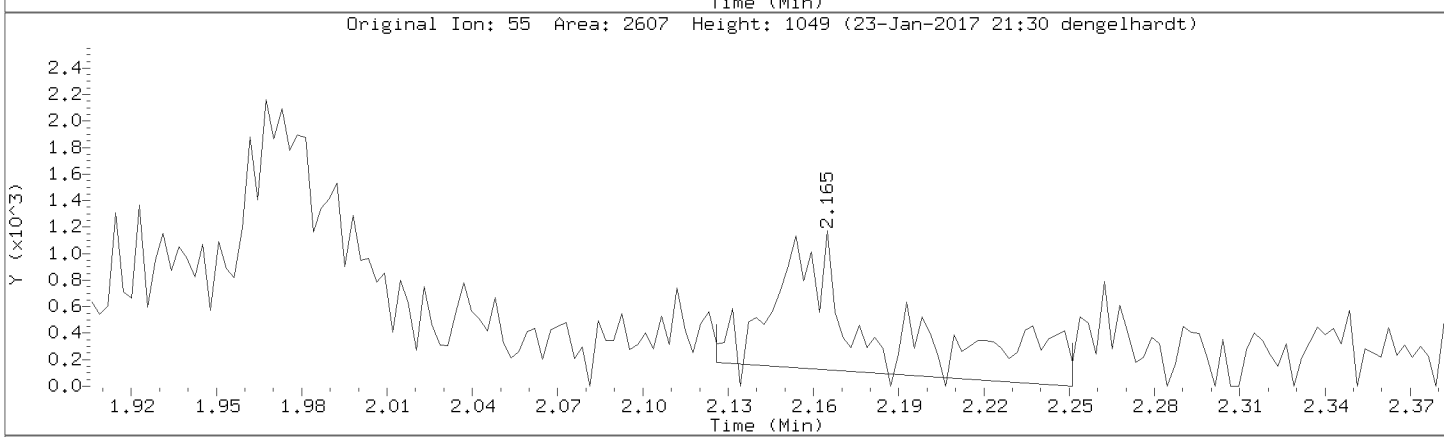
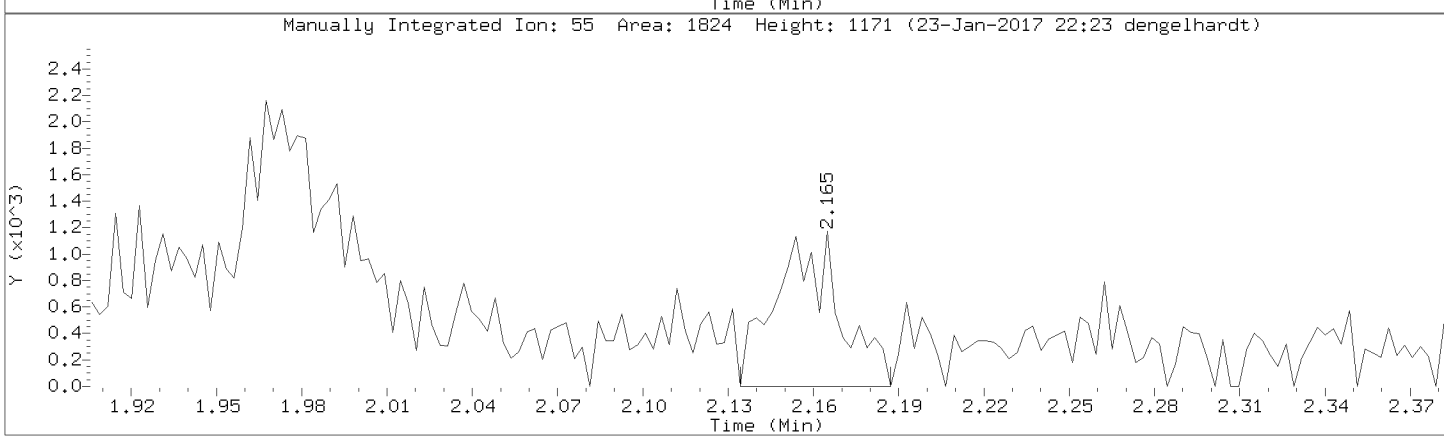
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: n-Hexane Review Code: LT
CAS Number:









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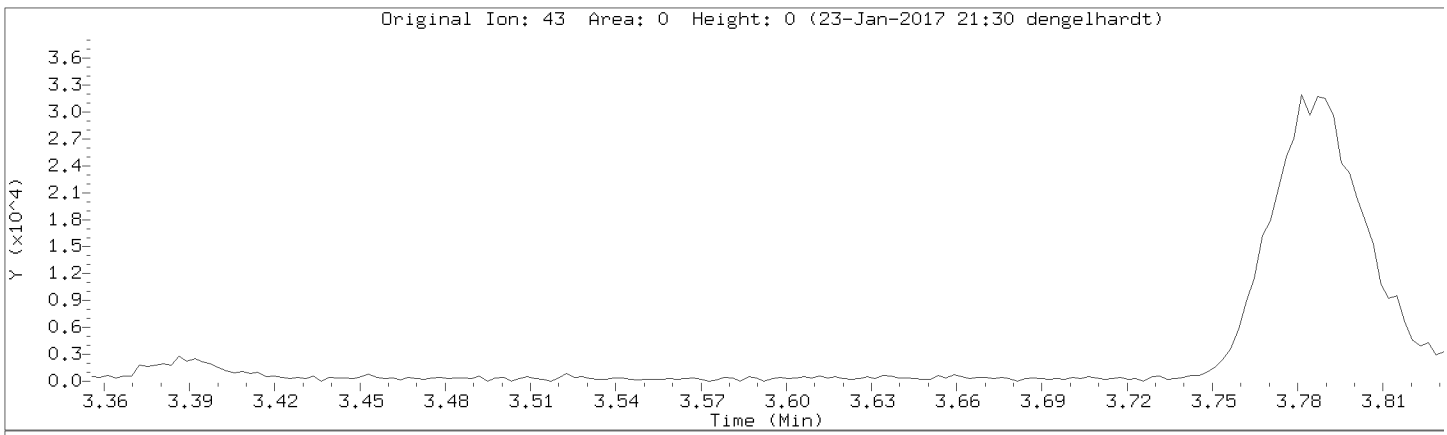
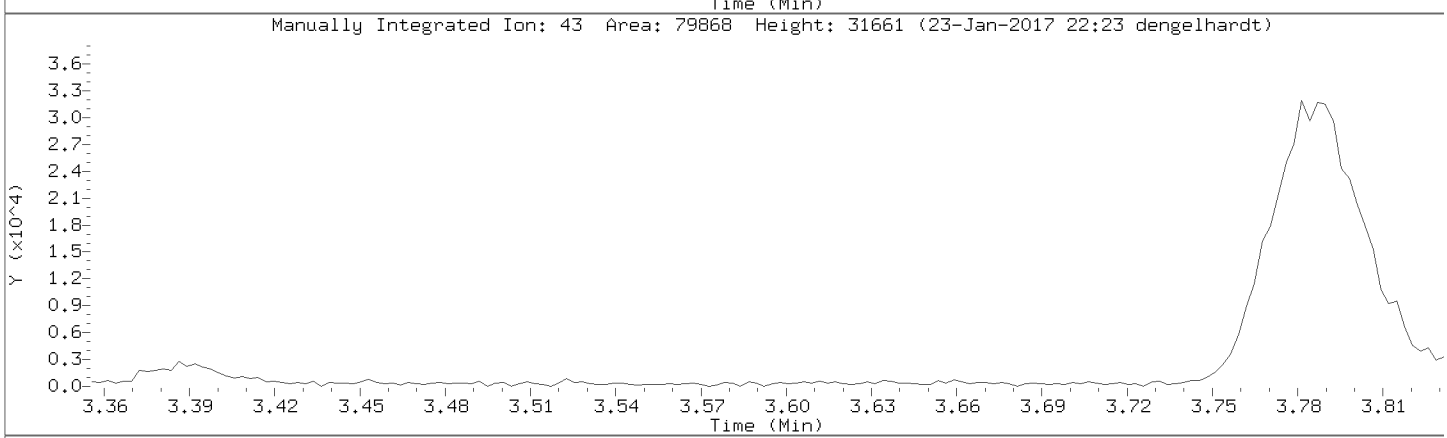
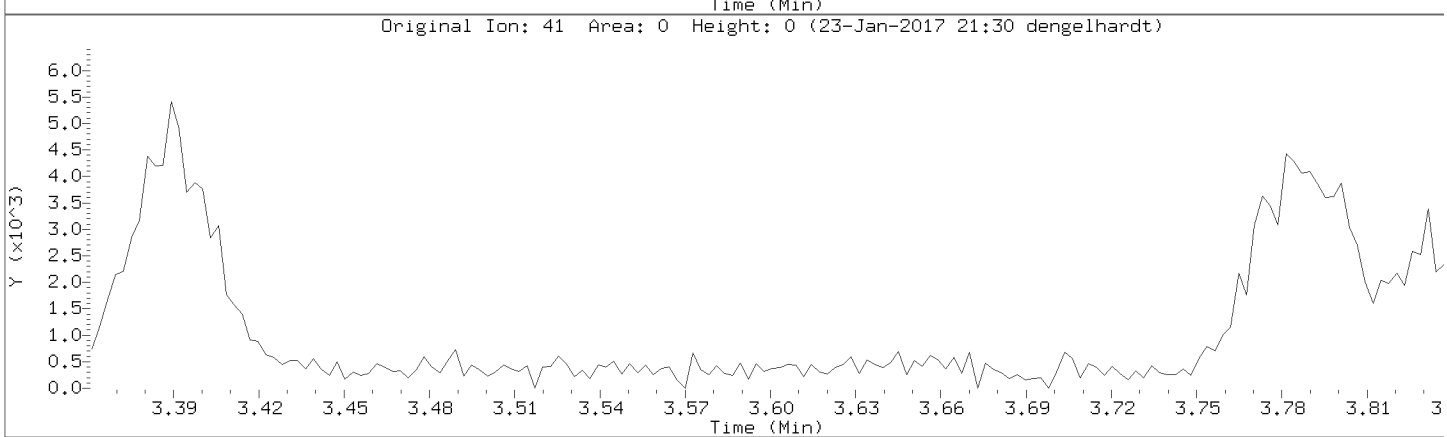
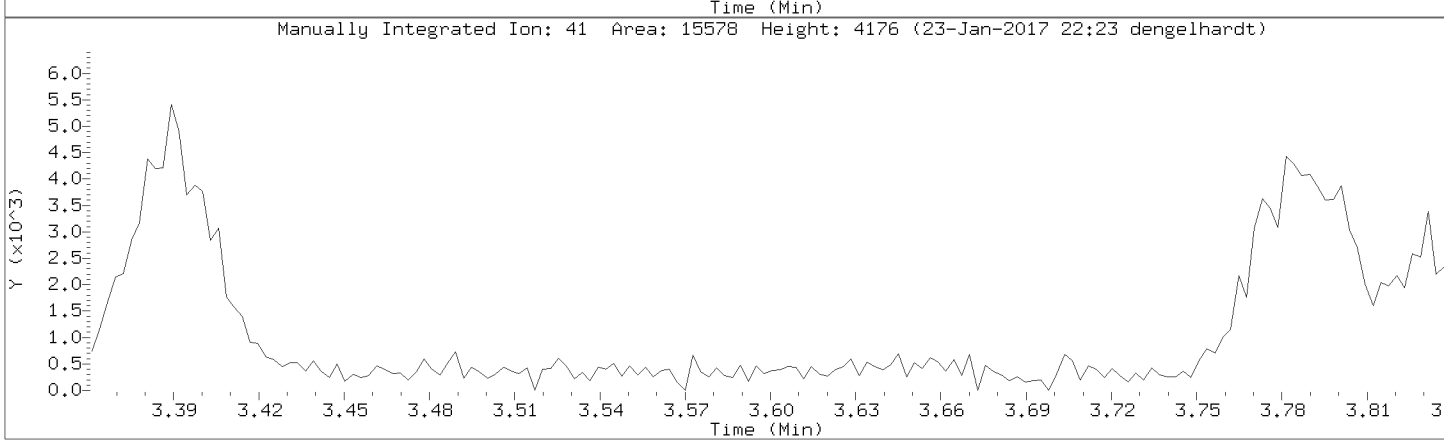
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Isobutyl alcohol Review Code: LT
CAS Number: 78-83-1









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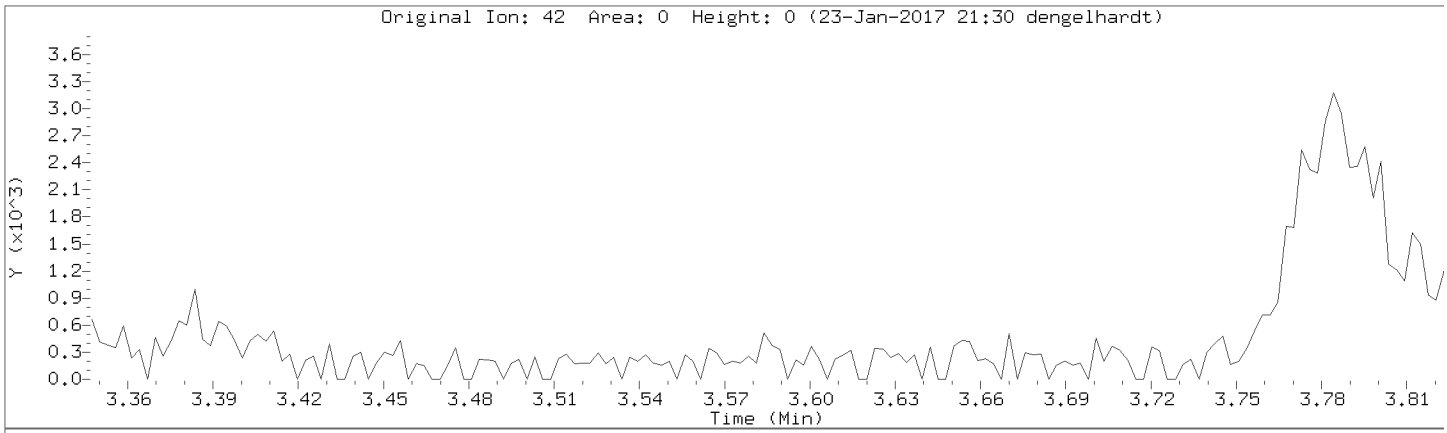
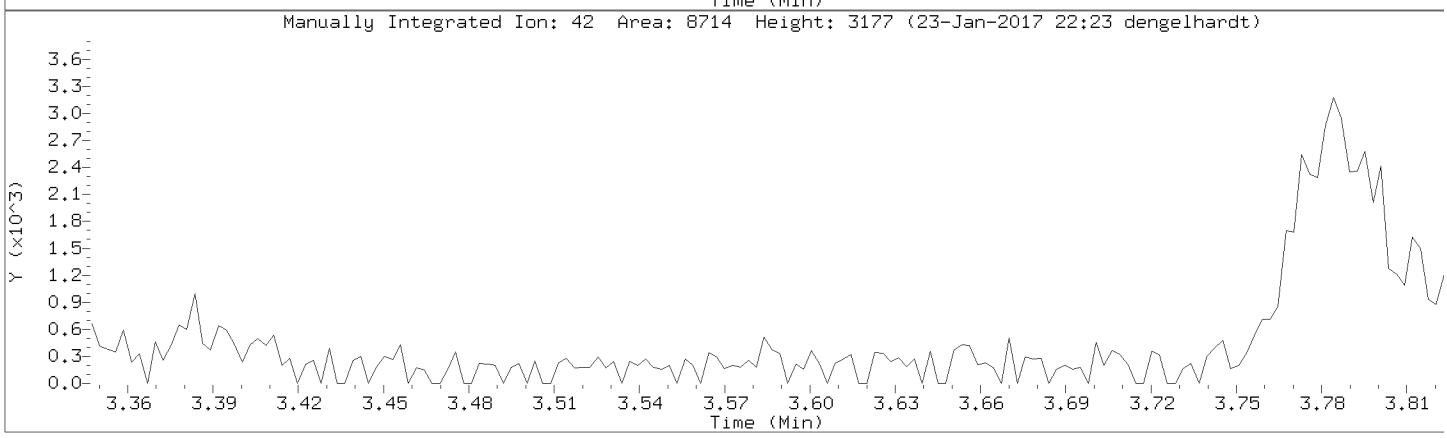
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4





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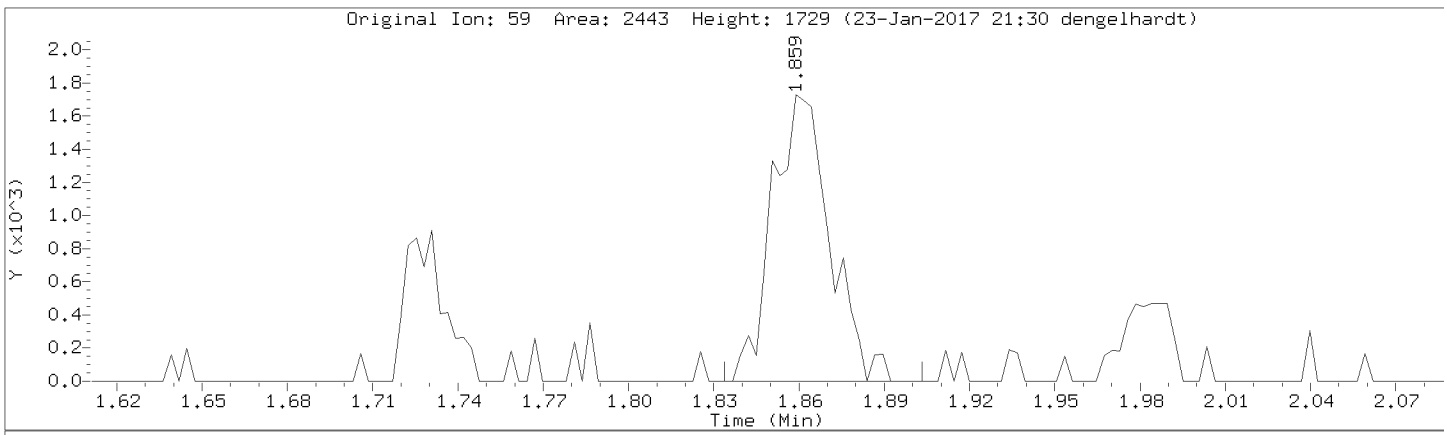
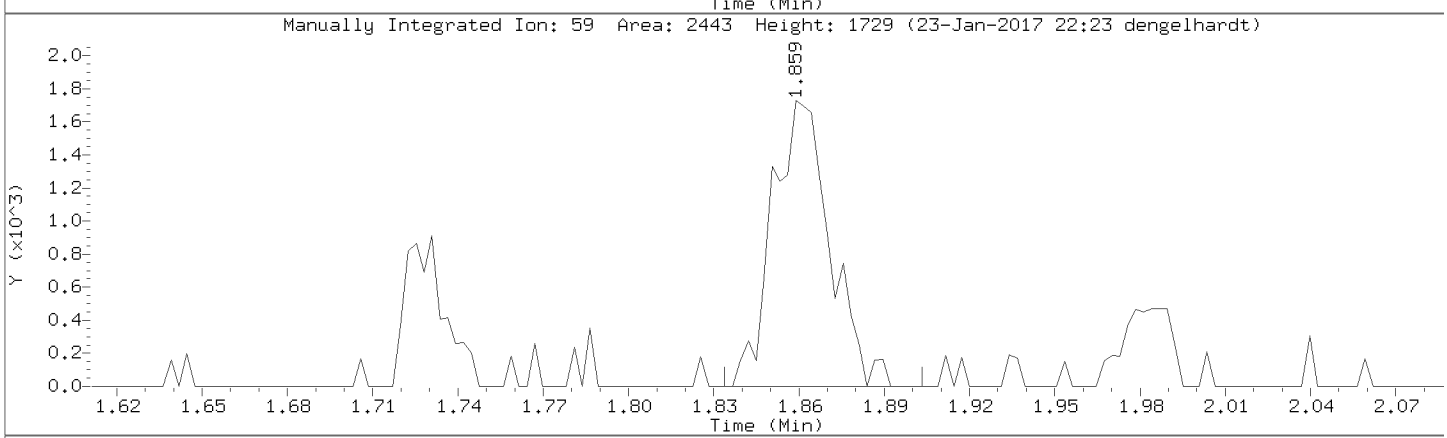
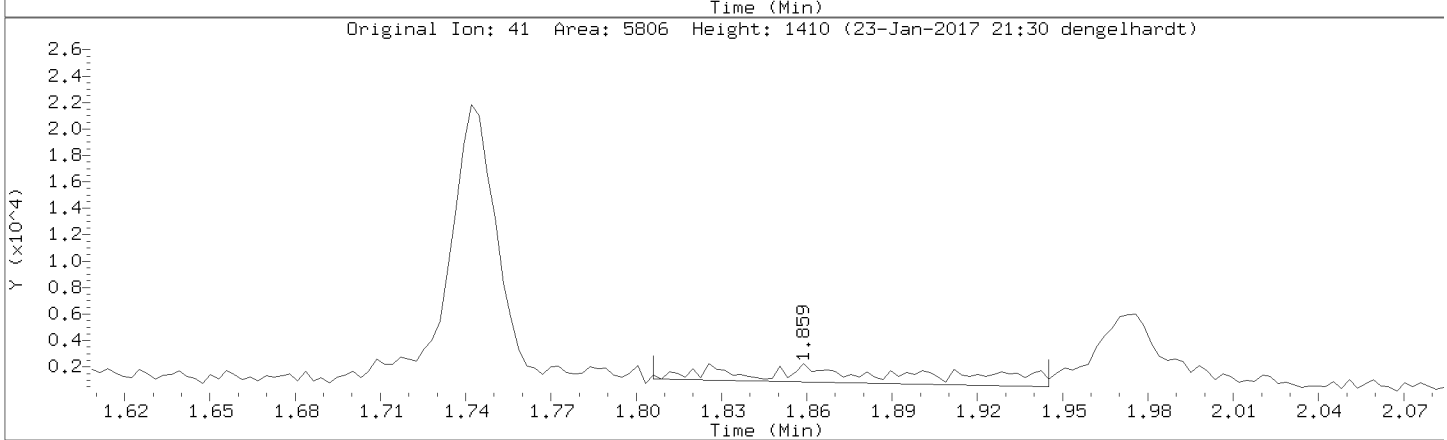
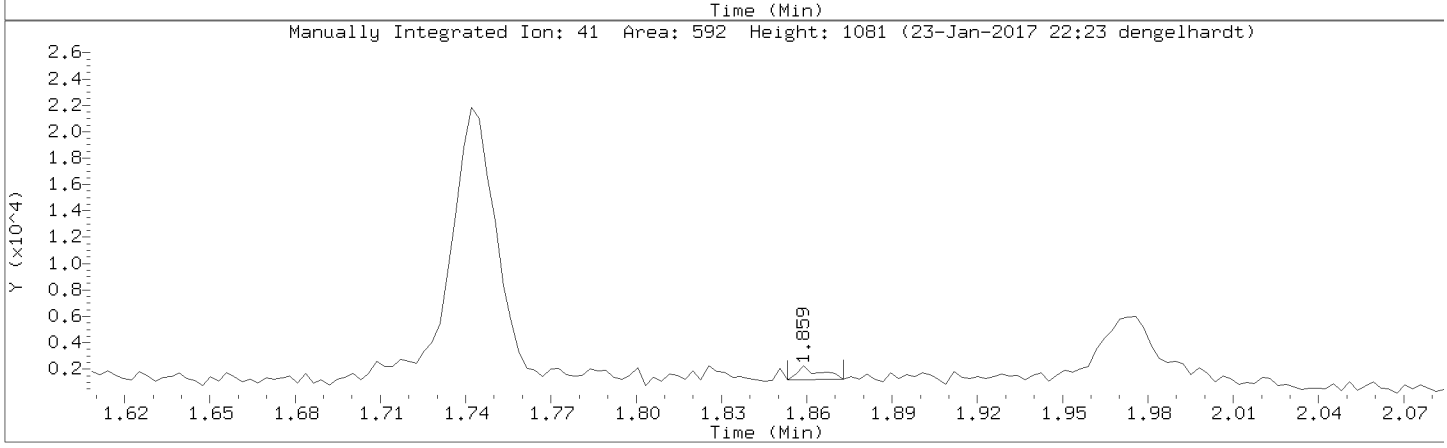
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butyl Alcohol Review Code:
CAS Number: 75-65-0









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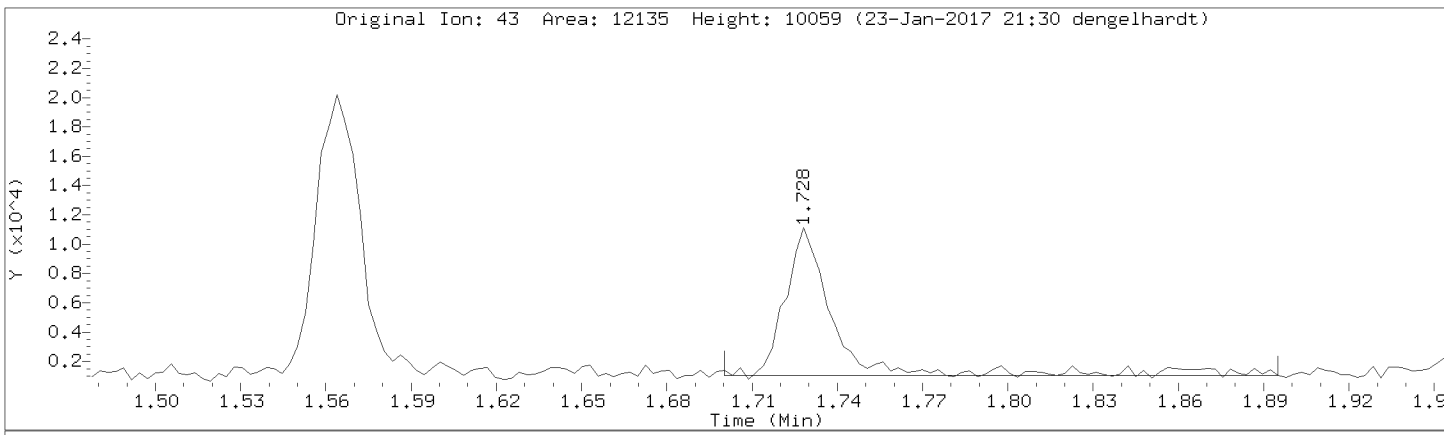
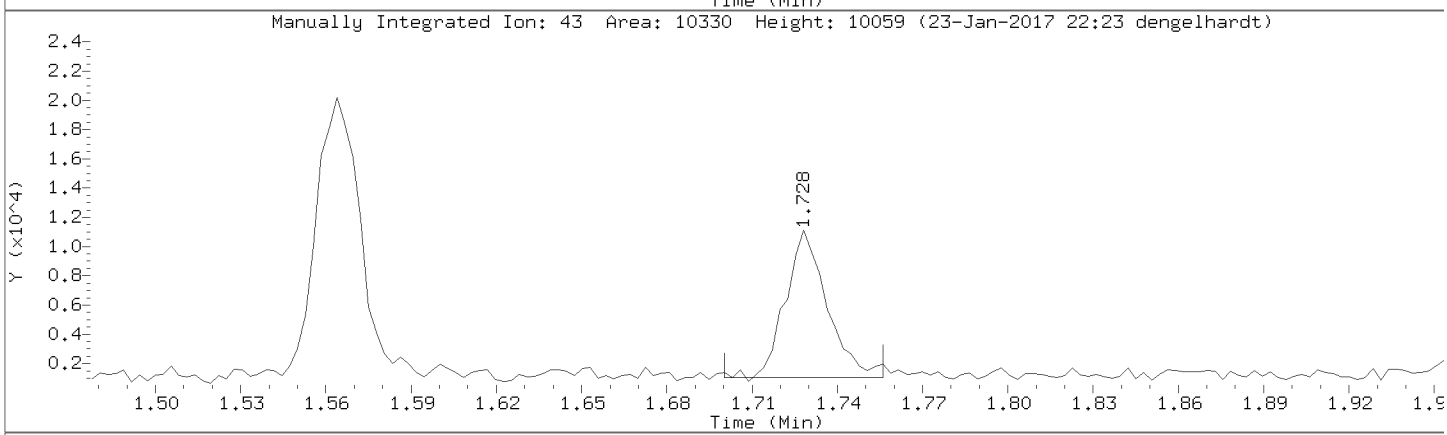
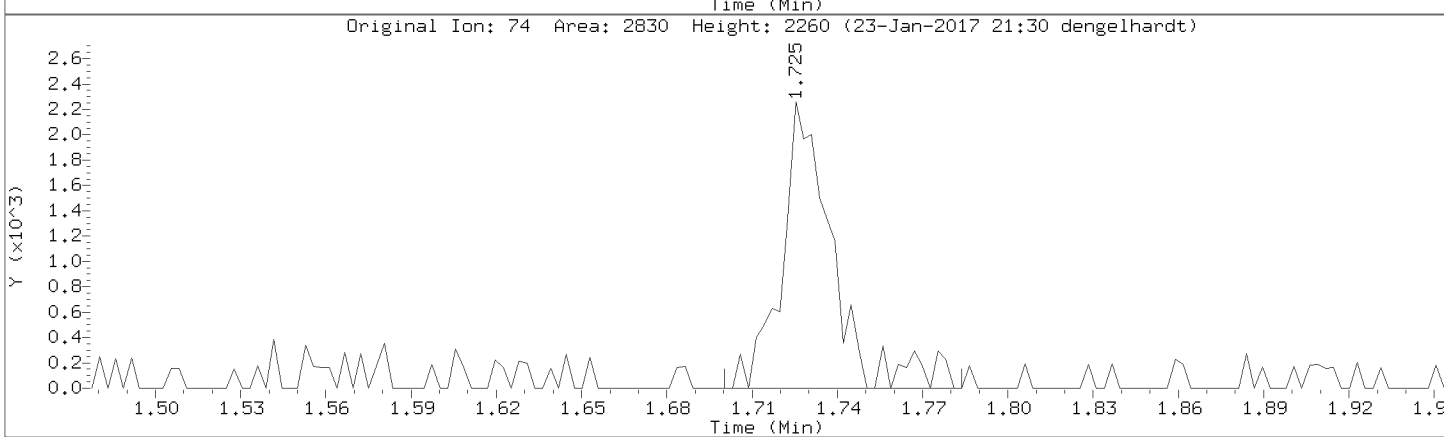
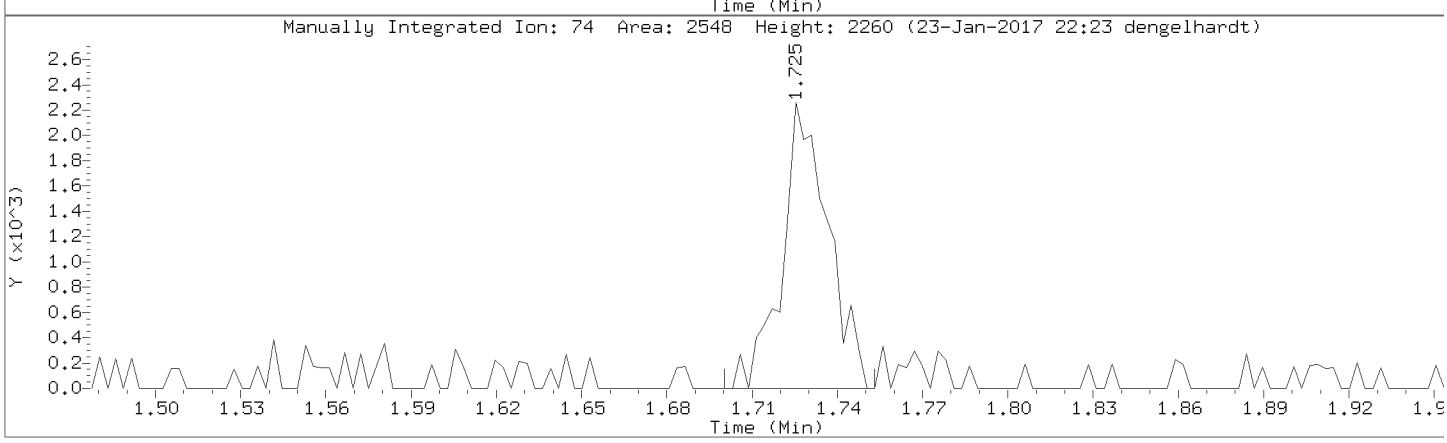
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9









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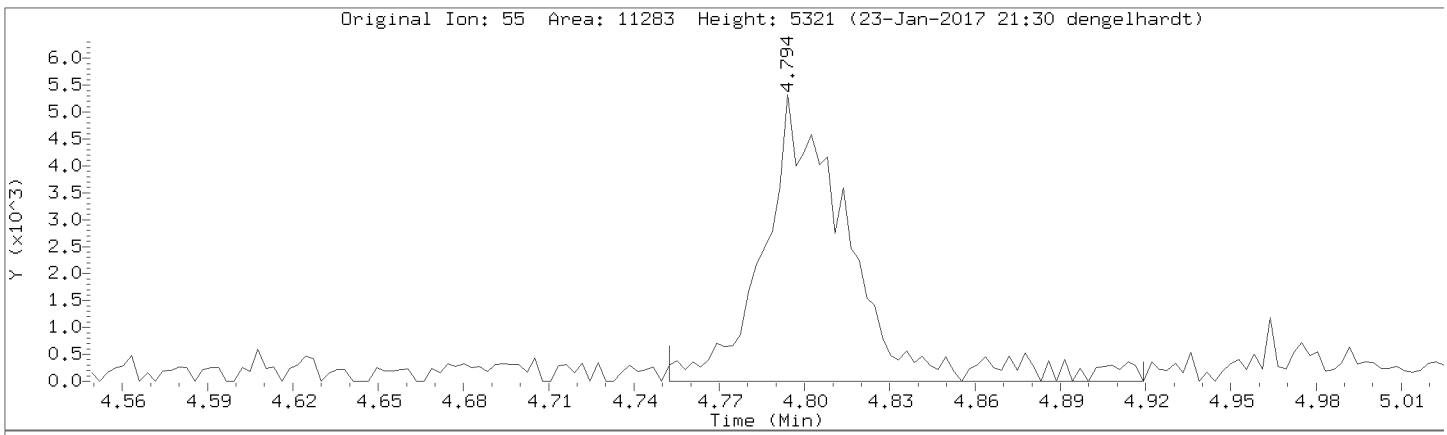
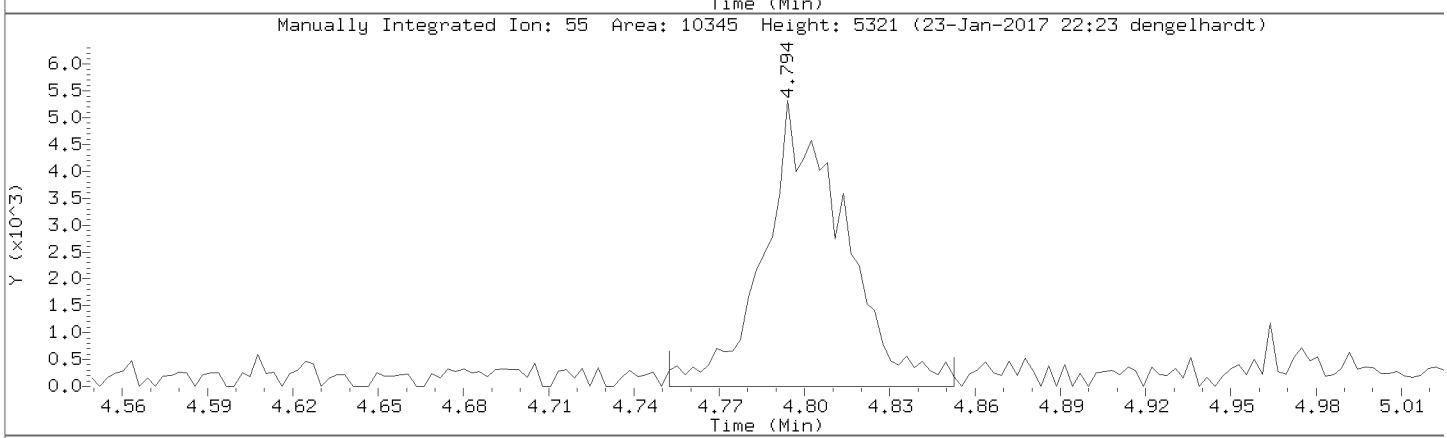
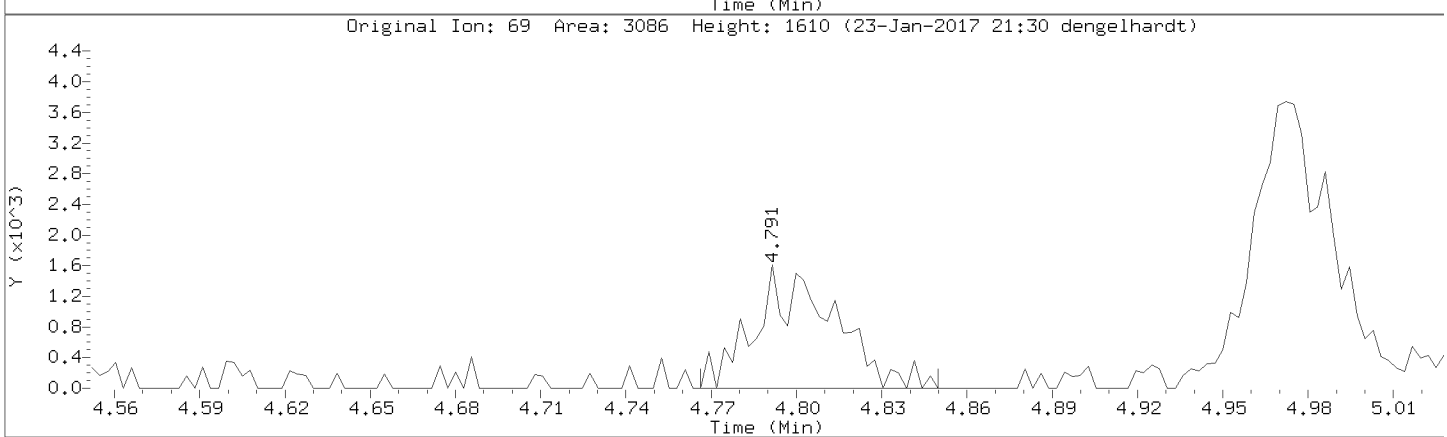
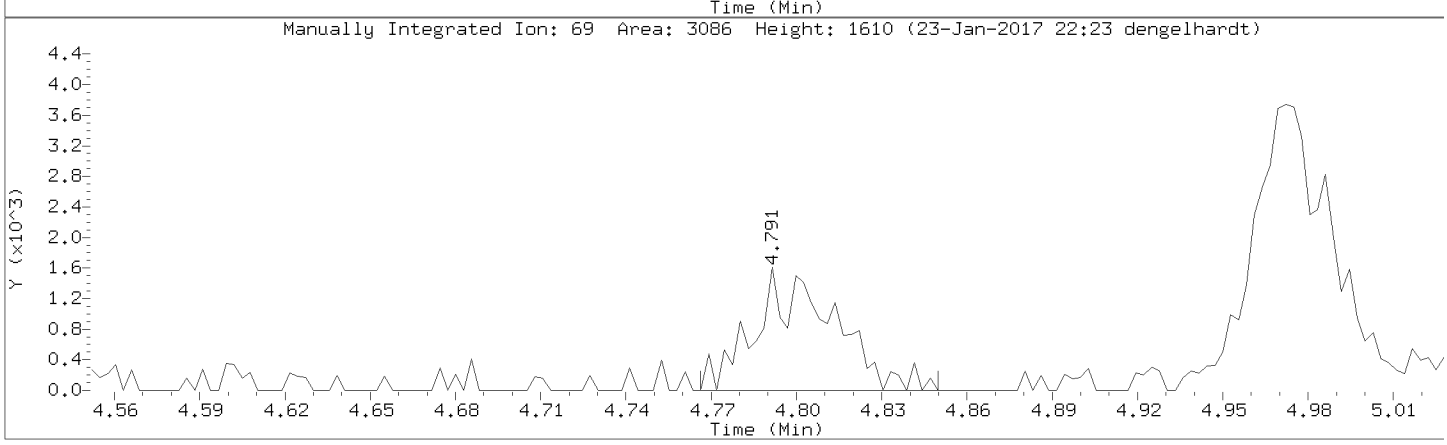
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Methylcyclohexane Review Code: WP
CAS Number: 108-87-2









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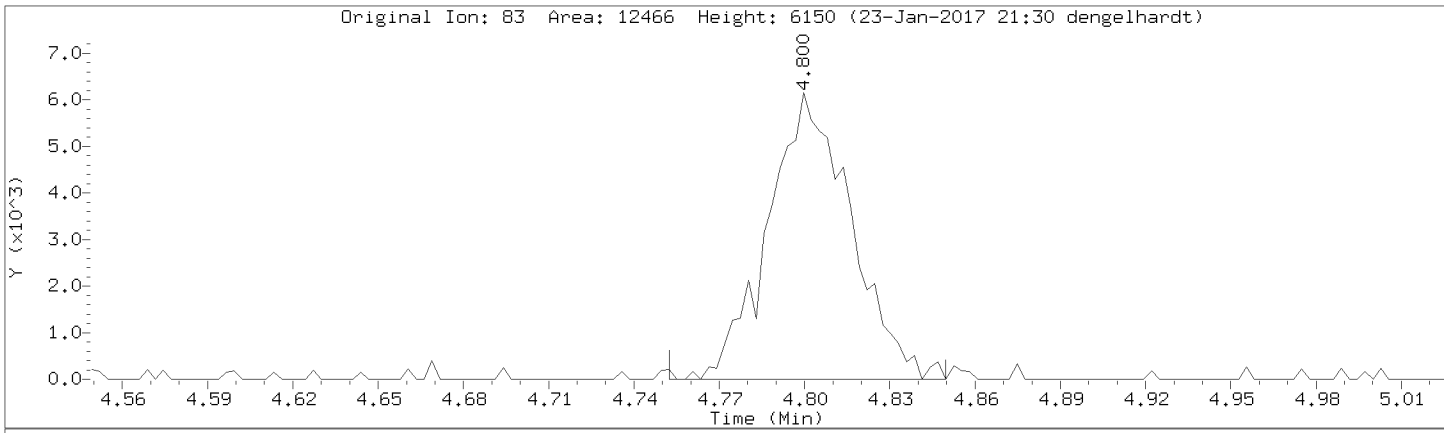
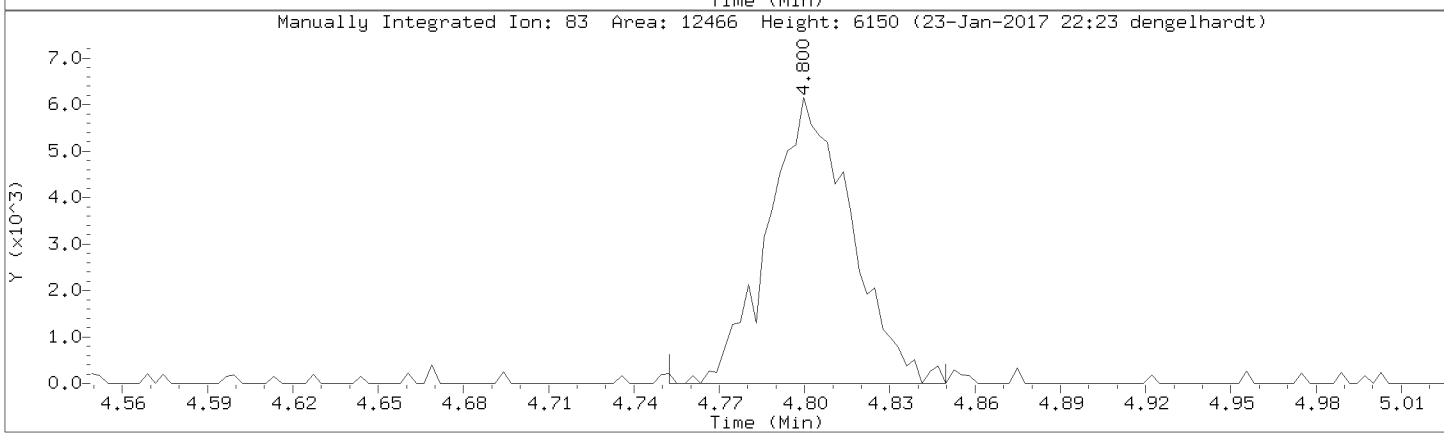
Lab Sample ID: 8260-CAL4





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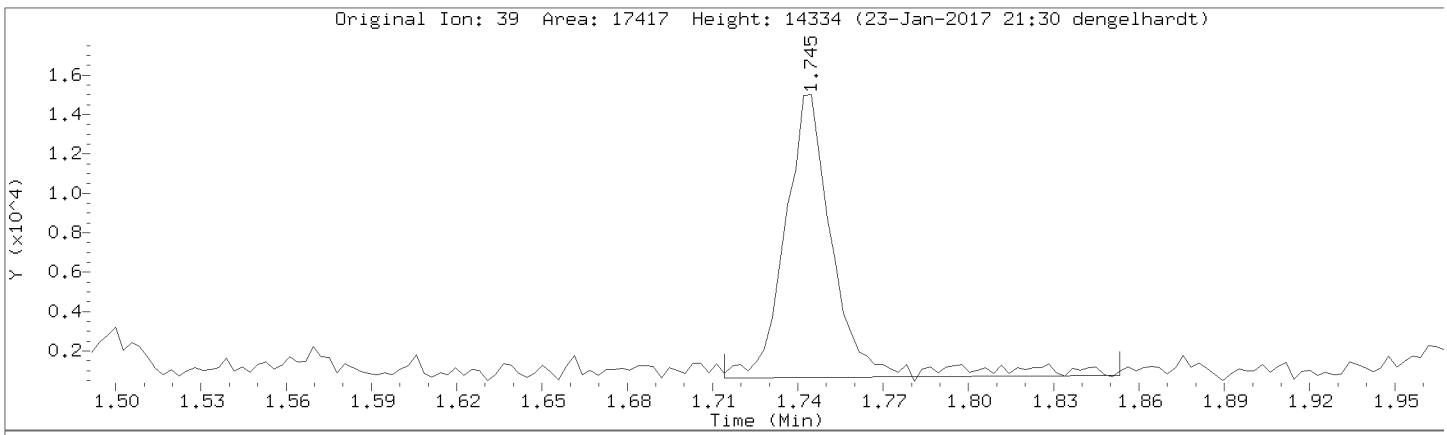
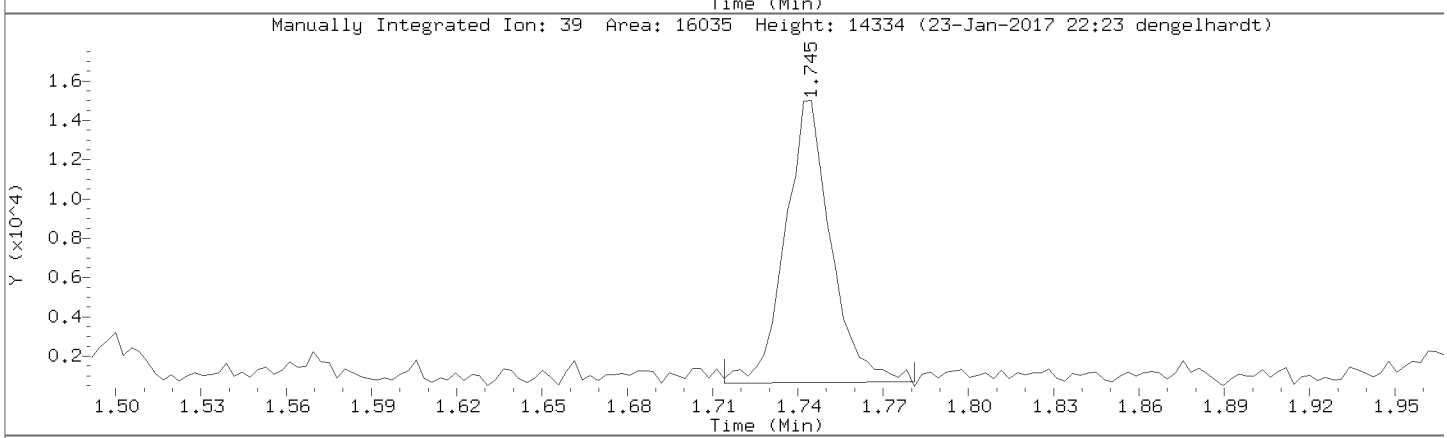
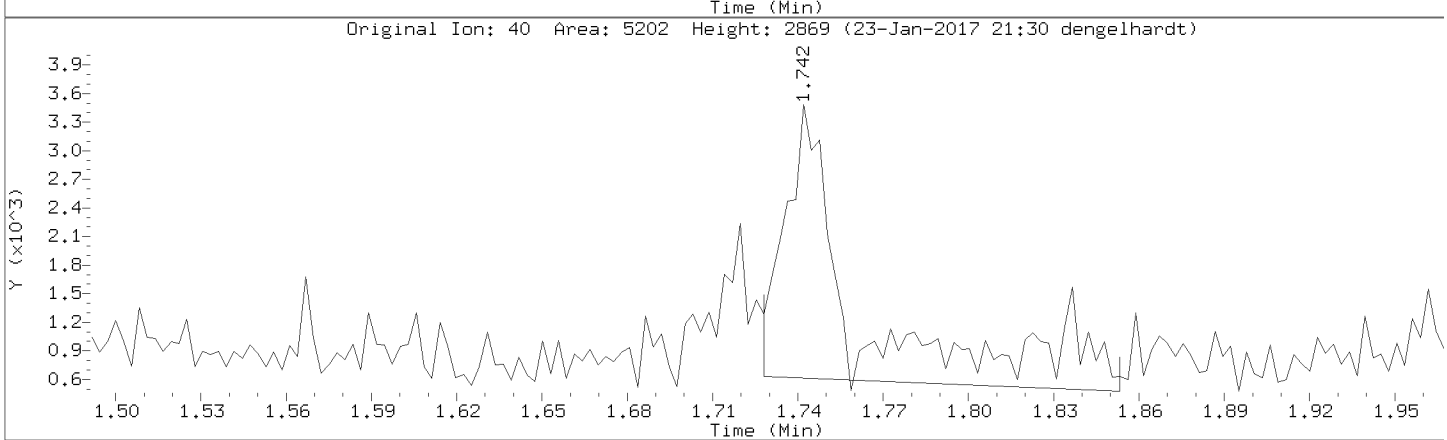
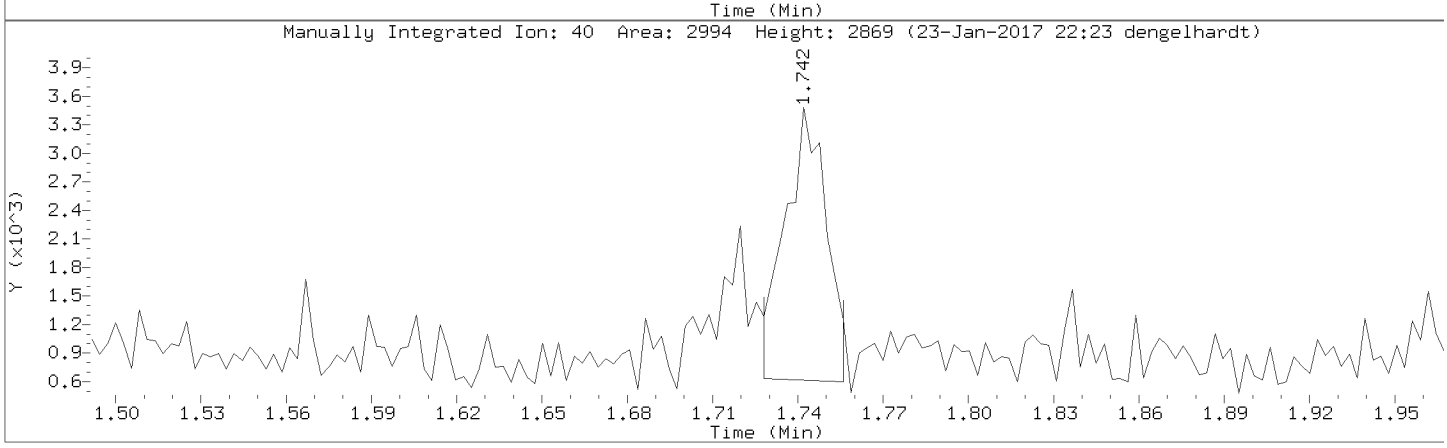
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8









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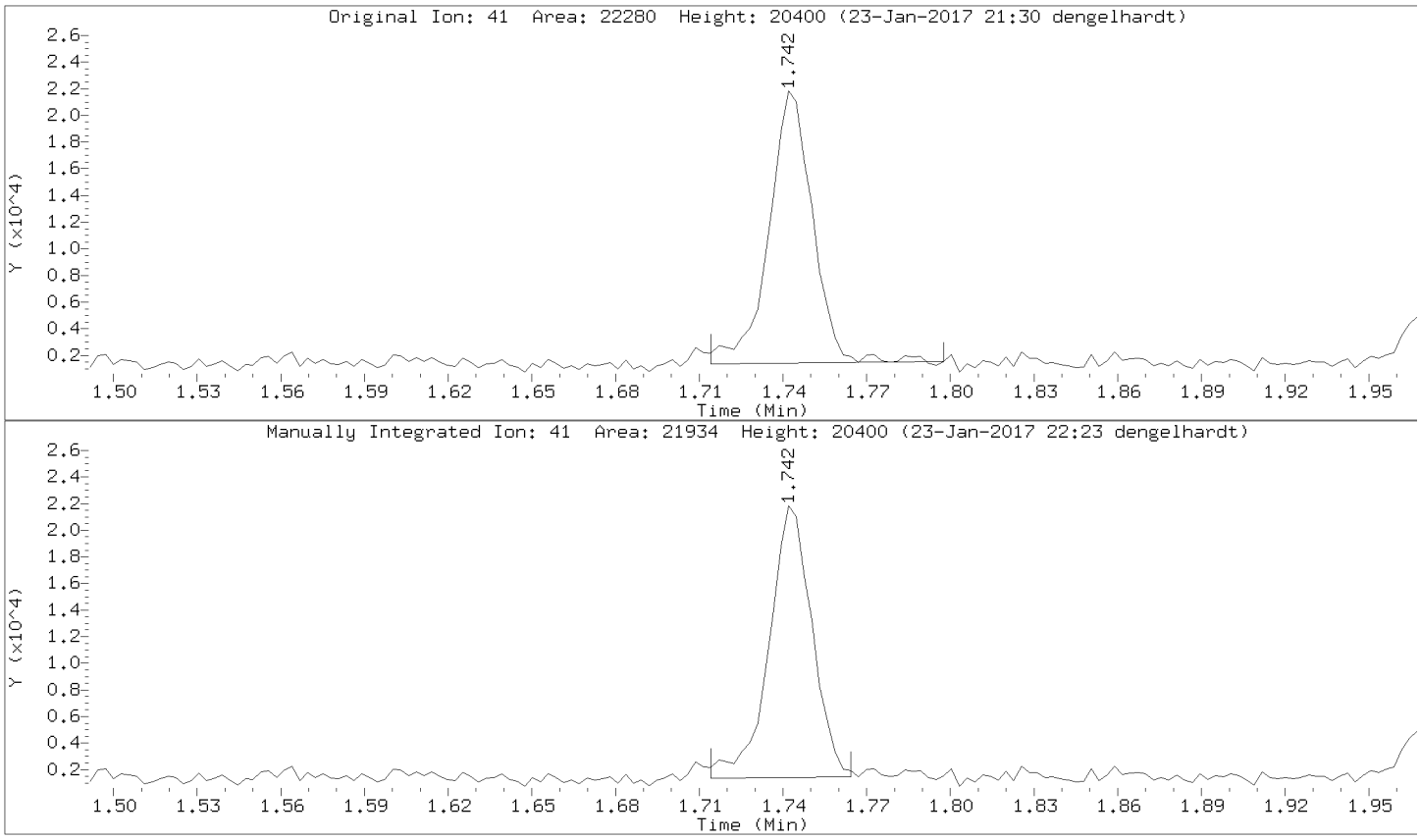
Lab Sample ID: 8260-CAL4



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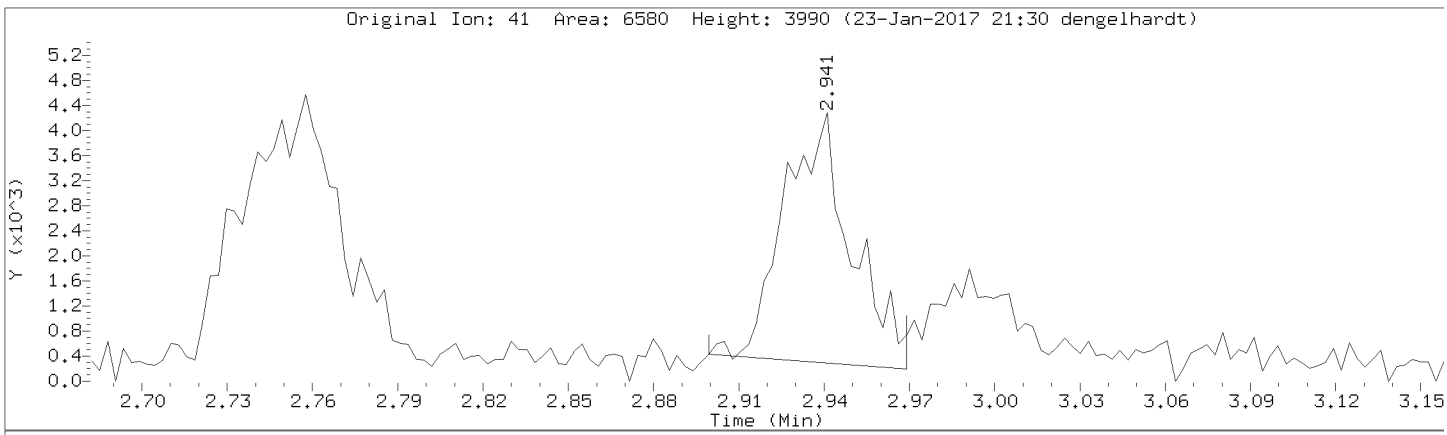
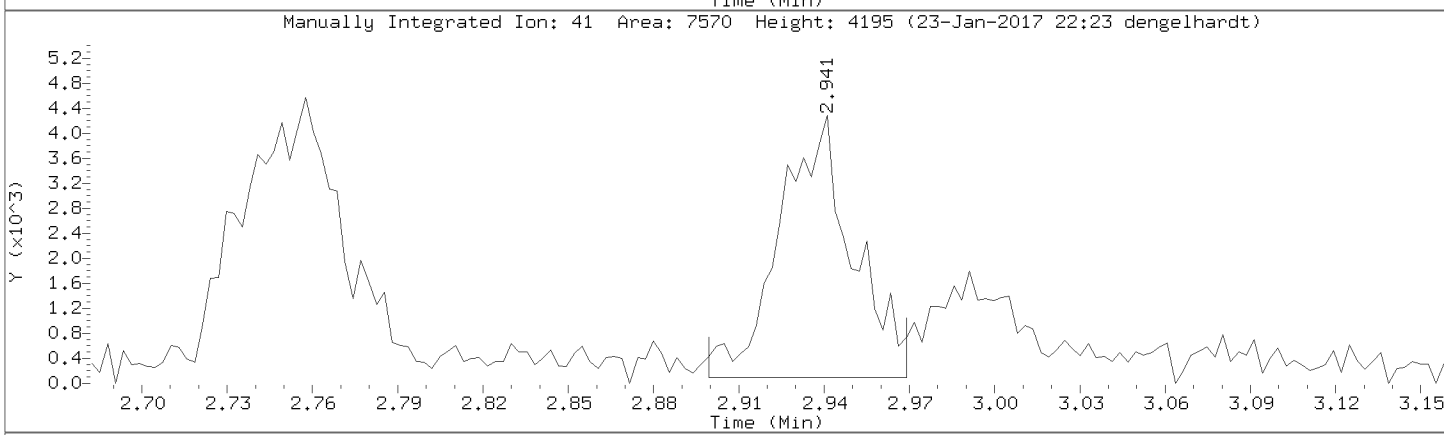
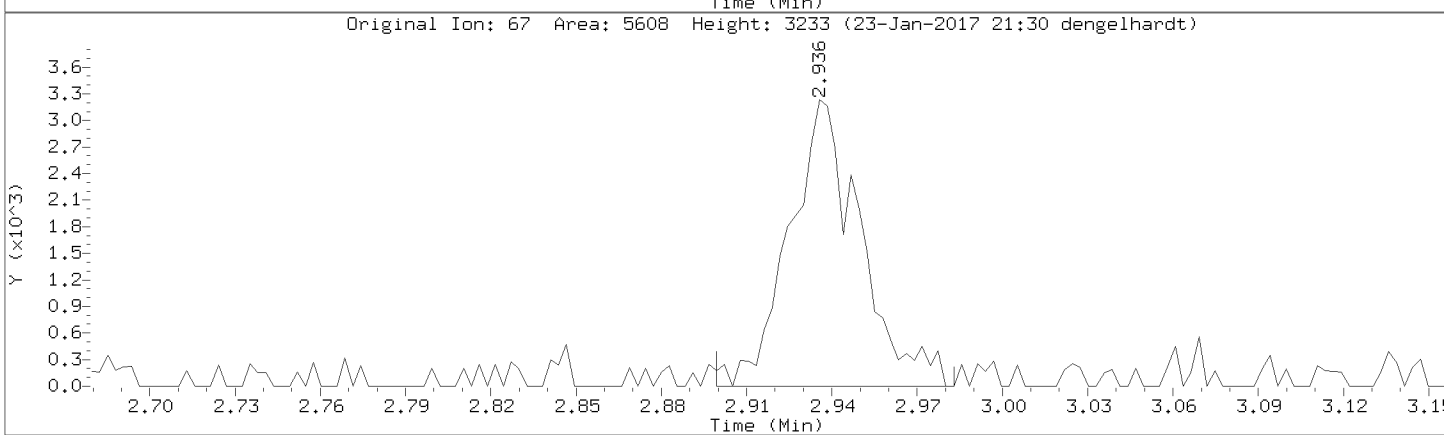
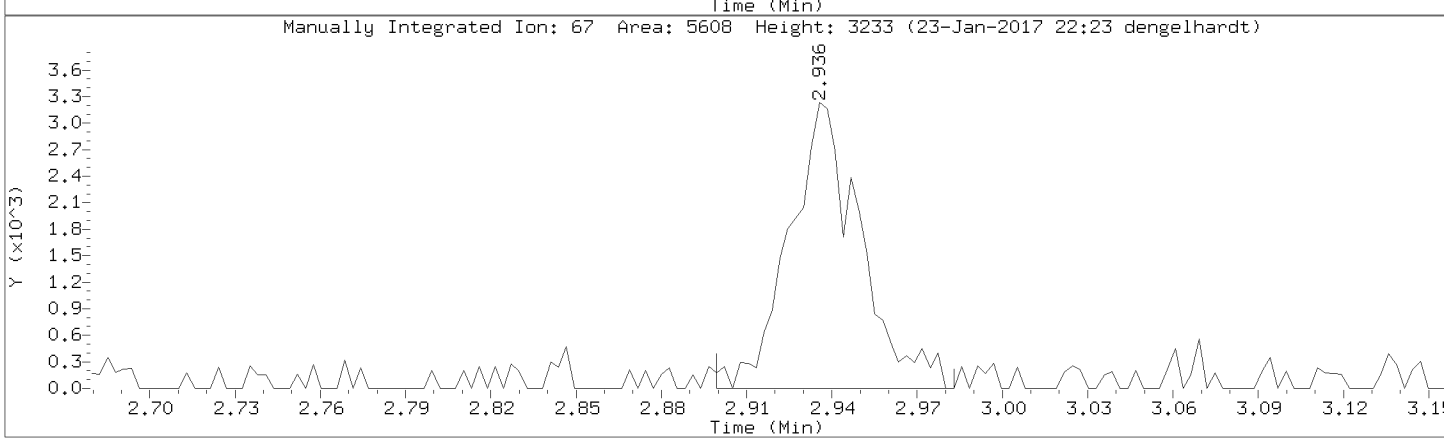
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Methacrylonitrile Review Code: LT
CAS Number: 126-98-7









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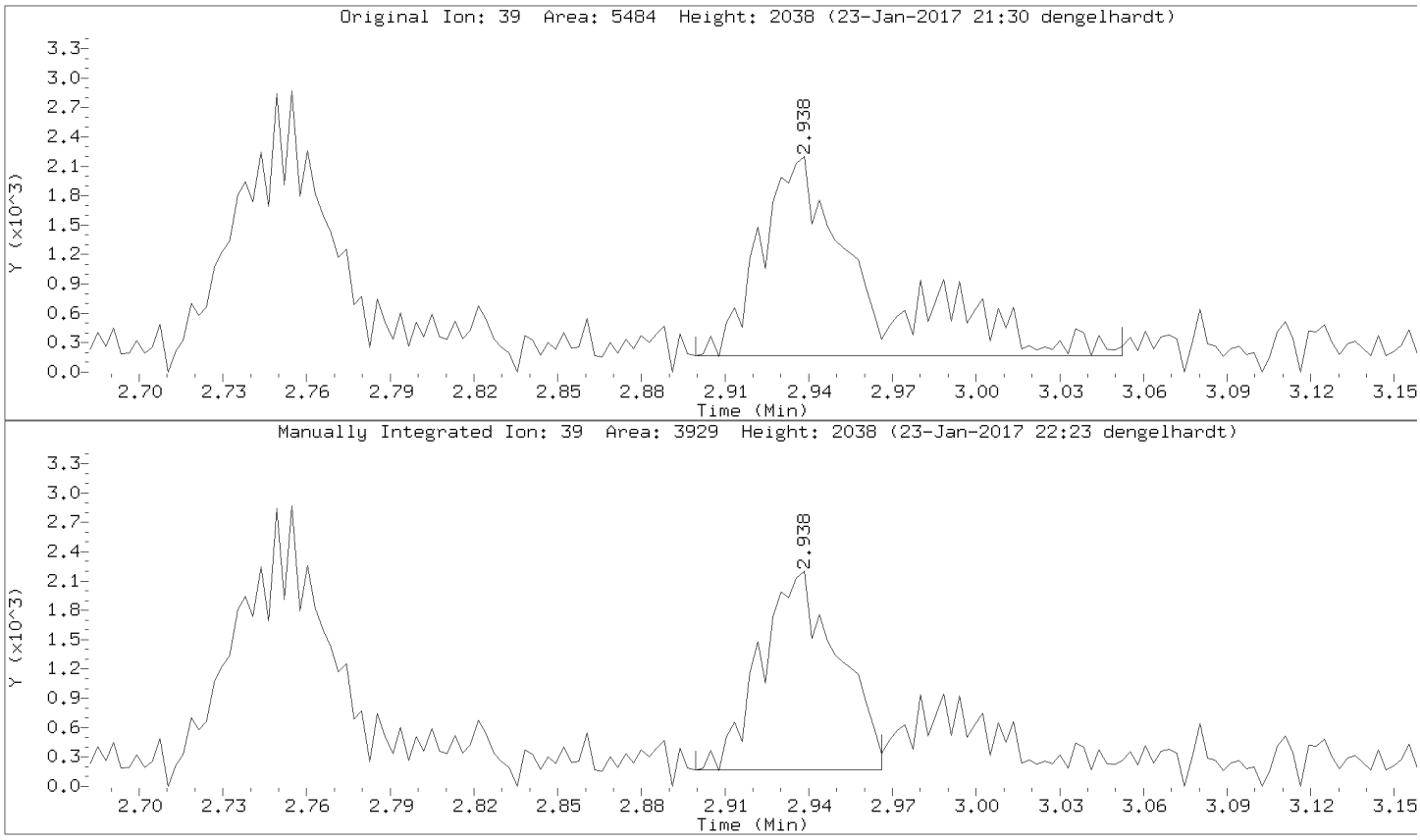
Lab Sample ID: 8260-CAL4



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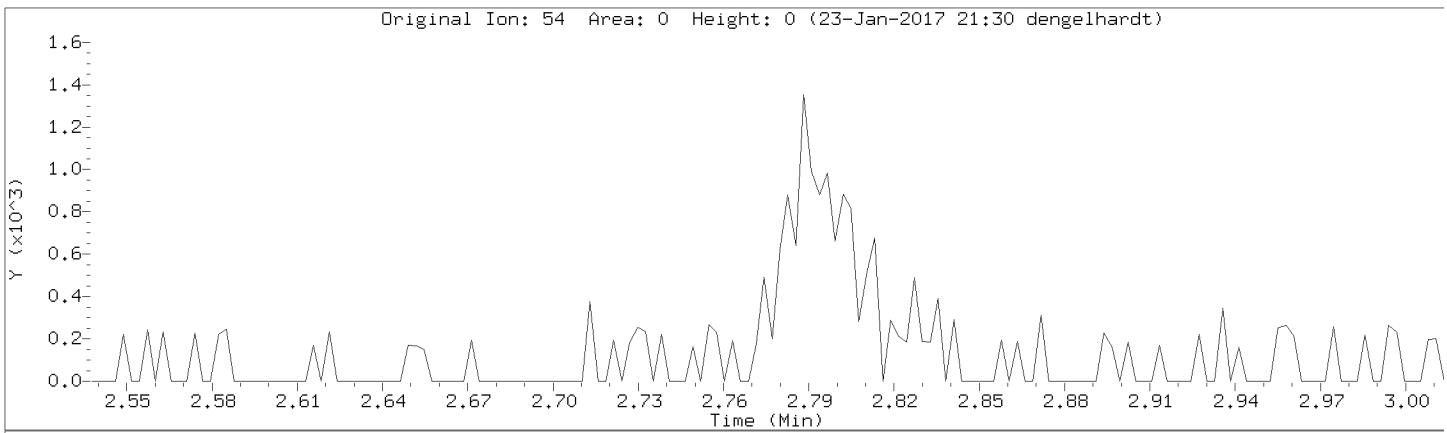
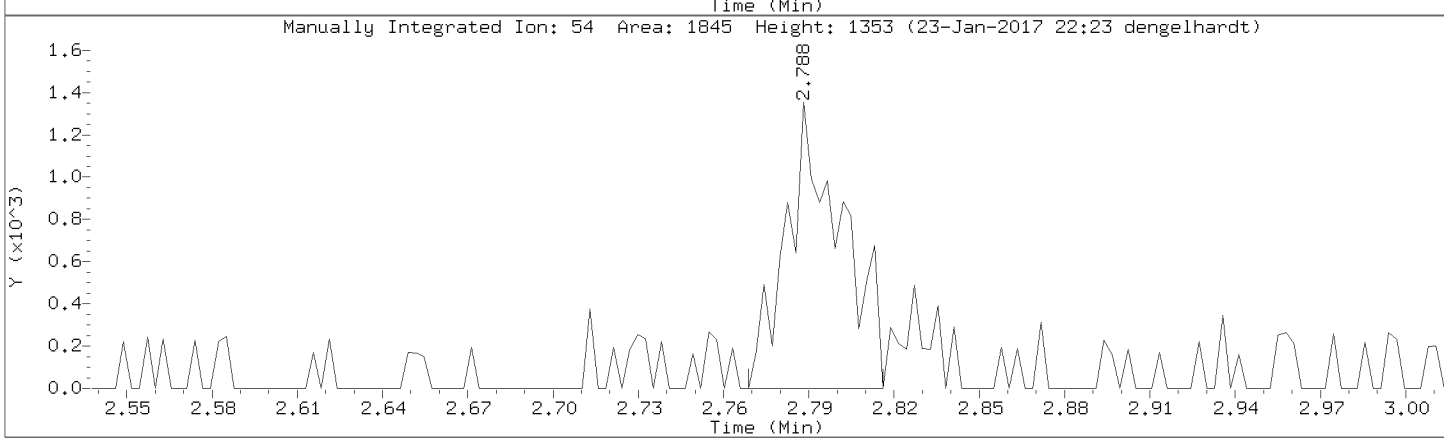
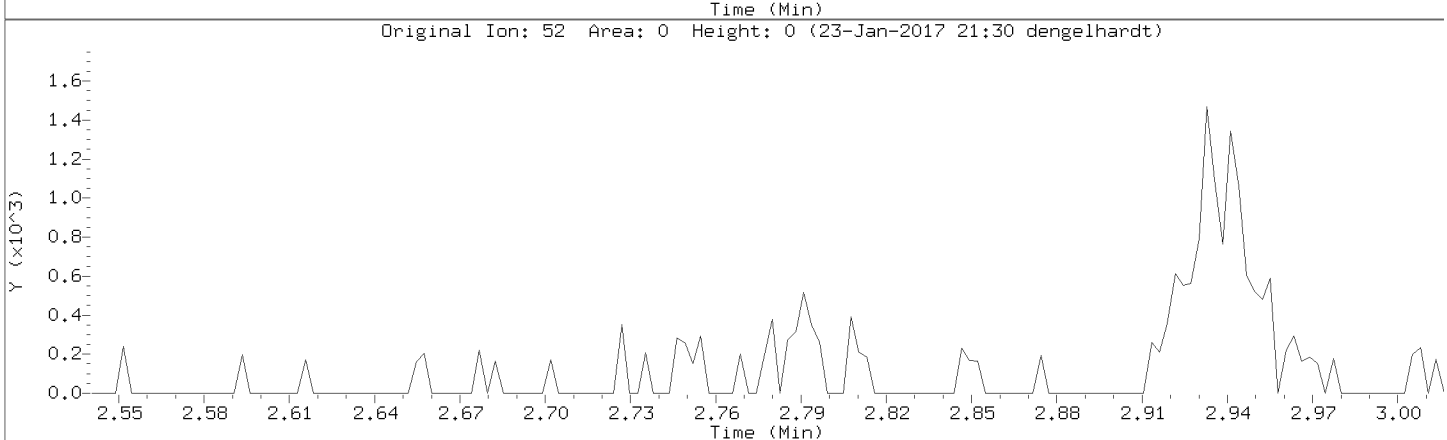
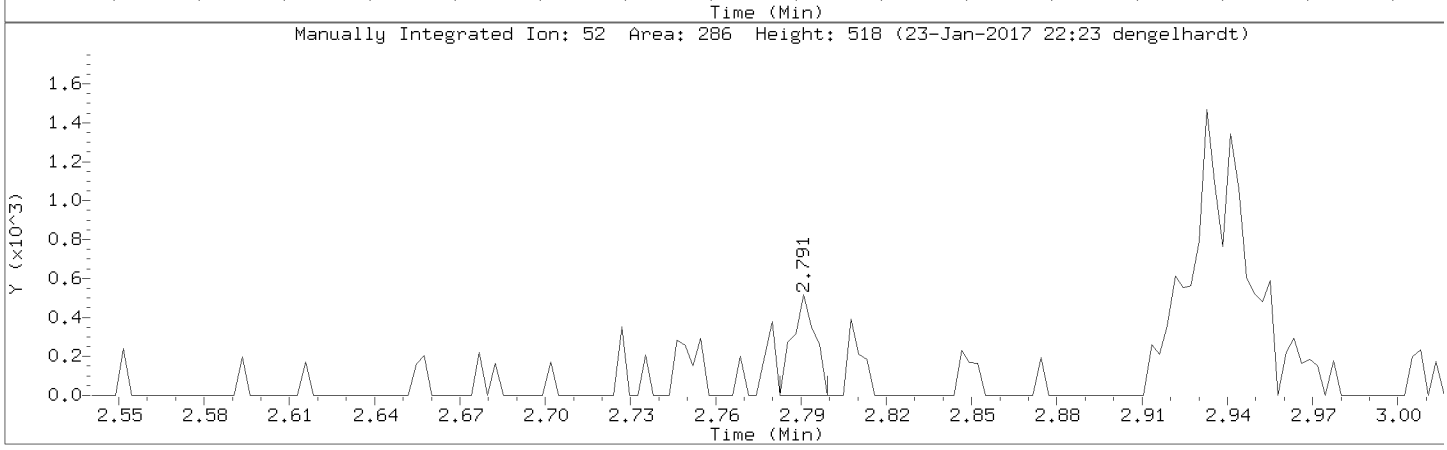
Injection Date: 22-JAN-2017 23:49
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4

Compound: Propionitrile Review Code: LT
CAS Number: 107-12-0









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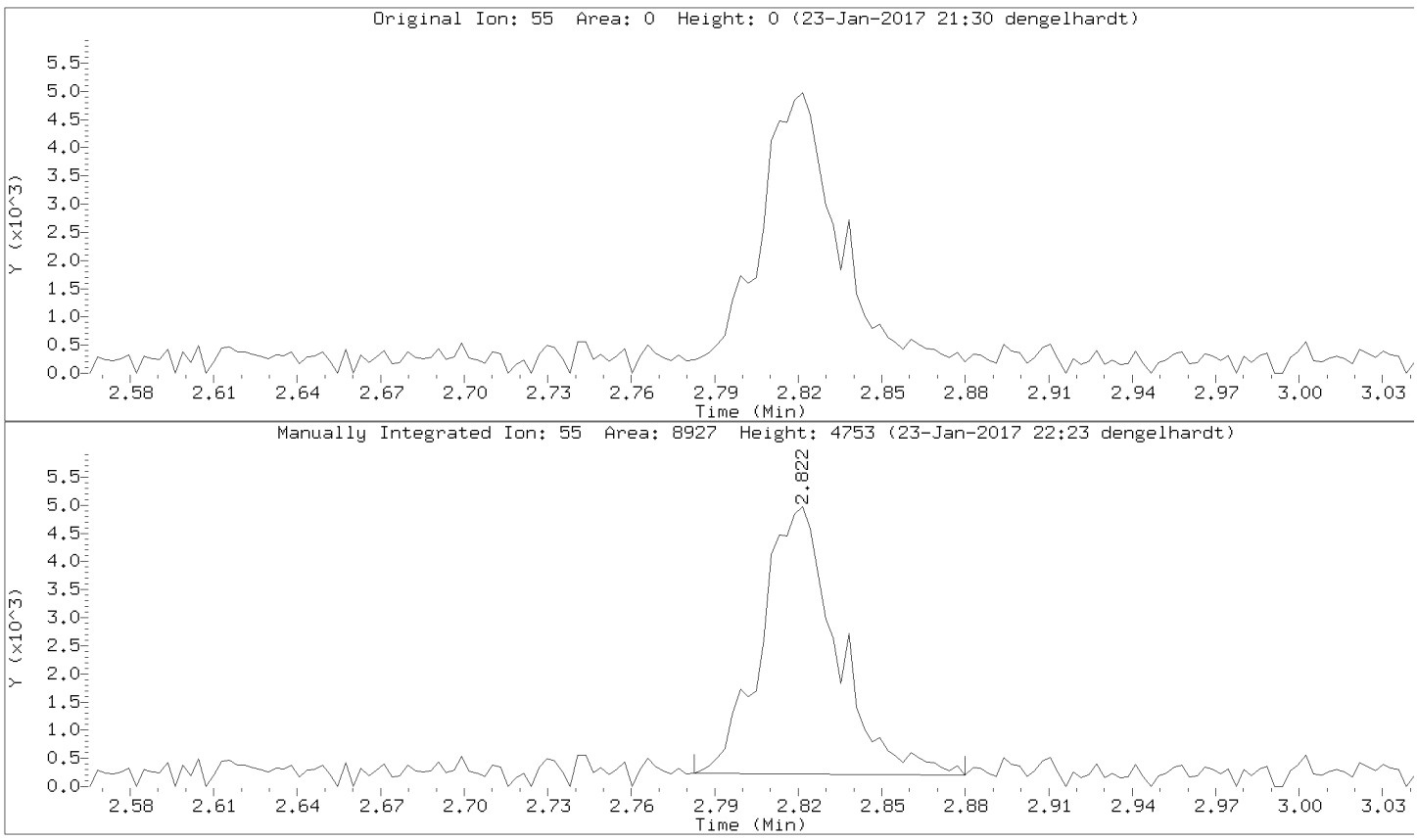
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL4



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Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b05cal5.d
Lab Smp Id: 8260-CAL5 Client Smp ID: 8260-CAL5
Inj Date : 23-JAN-2017 00:22
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal5,140430:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 58 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.217)	16444	10.0000	11.0	
2 Chloromethane	50	0.987	0.990	(0.243)	21762	10.0000	7.99	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	22714	10.0000	9.25	
4 Bromomethane	94	1.152	1.149	(0.283)	9803	10.0000	7.14	
5 Chloroethane	64	1.196	1.193	(0.294)	14023	10.0000	9.33	
6 Trichlorofluoromethane	101	1.307	1.305	(0.321)	27480	10.0000	10.2	
7 Diethyl ether	74	1.427	1.427	(0.351)	14671	10.0000	9.18	
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.355)	27145	10.0000	7.52	
9 Acrolein	56	1.497	1.500	(0.368)	63631	200.000	186	
10 1,1,2trichlorotrifluoroethane	101	1.547	1.547	(0.380)	21013	10.0000	9.97	
11 1,1-Dichloroethene	96	1.549	1.550	(0.381)	19628	10.0000	8.46	
12 Acetone	43	1.563	1.564	(0.384)	45317	50.0000	37.6	
13 Iodomethane	142	1.636	1.636	(0.402)	19202	20.0000	31.5	
14 Carbon Disulfide	76	1.680	1.683	(0.413)	54992	10.0000	8.69	
15 Methyl Acetate	43	1.727	1.728	(0.424)	23627	10.0000	6.11	
16 Acetonitrile	39	1.741	1.742	(0.428)	34534	10.0000	9.52	
17 allyl chloride	41	1.741	1.742	(0.428)	52448	20.0000	20.2	
18 Methylene Chloride	84	1.814	1.817	(0.446)	21412	10.0000	6.28	
19 tert-Butyl Alcohol	59	1.858	1.861	(0.457)	4751	20.0000	13.1(Q)	
20 Acrylonitrile	53	1.950	1.950	(0.479)	41399	40.0000	30.0	
21 Methyl-tert-butyl ether	73	1.970	1.973	(0.484)	63563	10.0000	9.89	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.487)	19677	10.0000	7.24	
23 n-Hexane	57	2.159	2.156	(0.530)	24847	10.0000	8.67	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.270	2.270	(0.558)	155295	40.0000	43.8	
25 1,1-Dichloroethane	63	2.281	2.279	(0.561)	34217	10.0000	9.27	
26 Chloroprene	53	2.334	2.331	(0.573)	27584	10.0000	9.27	
147 Ethyl acetate	88	2.768	2.774	(0.680)	9198	80.0000	76.0(Q)	
27 2-Butanone	72	2.732	2.732	(0.671)	14124	50.0000	51.3(Q)	
28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.674)	21499	10.0000	8.47	
29 2,2-Dichloropropane	77	2.743	2.746	(0.674)	20504	10.0000	8.49	
30 Propionitrile	54	2.790	2.788	(0.686)	4410	10.0000	8.29(QM)	NI
31 Methacrylonitrile	41	2.935	2.932	(0.721)	14567	10.0000	6.29	
32 Bromochloromethane	49	2.974	2.971	(0.731)	17592	10.0000	9.23	
33 Tetrahydrofuran	42	2.993	2.985	(0.735)	9026	10.0000	4.44	
34 Chloroform	83	3.077	3.077	(0.756)	33664	10.0000	8.32	
$ 35 Dibromofluoromethane (S)	113	3.247	3.252	(0.798)	66856	50.0000	48.9	
36 1,1,1-Trichloroethane	97	3.244	3.247	(0.797)	30127	10.0000	9.04	
37 cyclohexane	56	3.322	3.325	(0.816)	31447	10.0000	7.84	
146 n-butyl chloride	56	3.388	3.325	(0.833)	38009	10.0000	8.19	
38 Carbon Tetrachloride	117	3.416	3.419	(0.839)	26938	10.0000	9.80	
39 1,1-Dichloropropene	75	3.430	3.430	(0.843)	25704	10.0000	9.61	
40 Benzene	78	3.669	3.667	(0.902)	70848	10.0000	8.92	
41 1,2-Dichloroethane	62	3.756	3.756	(0.923)	28401	10.0000	9.80	
42 2,2,4-Trimethylpentane	57	3.834	3.839	(0.942)	45400	10.0000	8.12	
43 Isobutyl alcohol	43	3.784	3.606	(0.930)	171150	10.0000	9.06(M)	NI
148 Isopropyl acetate	61	3.781	3.784	(0.929)	35762	40.0000	38.4	
* 44 Fluorobenzene	96	4.070	4.070	(1.000)	241792	50.0000		
45 Trichloroethene	95	4.535	4.532	(1.114)	17742	10.0000	9.22	
46 Methylcyclohexane	55	4.799	4.799	(1.179)	21675	10.0000	6.32	
47 1,2-Dichloropropane	63	4.849	4.849	(1.191)	19334	10.0000	9.19	
48 Dibromomethane	93	4.952	4.947	(1.217)	12980	10.0000	8.17	
49 Methyl methacrylate	69	4.969	4.966	(1.221)	16865	10.0000	9.61	
50 1,4-Dioxane	88	4.949	4.952	(1.216)	5683	200.000	204	
51 Bromodichloromethane	83	5.177	5.175	(1.272)	26158	10.0000	9.03	
52 2-Chloroethyl vinyl ether	63	5.536	5.537	(0.752)	16470	20.0000	19.1	
53 cis-1,3-Dichloropropene	75	5.678	5.678	(0.771)	30188	10.0000	10.3	
54 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	105229	50.0000	47.6	
$ 55 Toluene-d8	98	5.951	5.951	(0.808)	250991	50.0000	50.4	
56 Toluene	91	6.026	6.023	(0.818)	80553	10.0000	8.68	
57 trans-1,3-Dichloropropene	75	6.318	6.318	(0.858)	25956	10.0000	9.92	
58 Ethyl Methacrylate	69	6.410	6.407	(0.870)	28464	10.0000	9.07	
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	13873	10.0000	8.24	
60 Tetrachloroethene	166	6.563	6.566	(0.891)	23289	10.0000	9.66	
61 1,3-Dichloropropane	76	6.669	6.666	(0.905)	30119	10.0000	9.67	
62 2-Hexanone	43	6.744	6.741	(0.915)	71764	50.0000	45.8	
63 Dibromochloromethane	129	6.866	6.864	(0.932)	21299	10.0000	9.72	
64 1,2-Dibromoethane	107	6.955	6.956	(0.944)	18873	10.0000	9.86	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	204138	50.0000		
66 Chlorobenzene	112	7.392	7.392	(1.003)	54536	10.0000	9.31	
67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	19619	10.0000	9.44	
68 Ethylbenzene	106	7.487	7.487	(1.016)	30196	10.0000	9.38	
69 m&p-Xylene	106	7.598	7.598	(1.031)	72851	20.0000	18.7	
70 o-Xylene	106	7.899	7.899	(1.072)	36647	10.0000	9.84(Q)	
71 Styrene	104	7.921	7.918	(1.075)	59916	10.0000	9.69	
72 Bromoform	173	8.057	8.057	(0.883)	17671	10.0000	9.44	
73 Isopropylbenzene	105	8.182	8.182	(1.111)	88008	10.0000	9.34	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	97540	50.0000	50.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.071	8.071	(1.096)	67889	40.0000	40.6(M)	NI
75 Bromobenzene	77	8.405	8.405	(1.141)	35260	10.0000	8.80	
76 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	26140	10.0000	8.65	
77 trans-1,4-Dichloro-2-butene	53	8.452	8.450	(1.147)	7125	10.0000	8.83	
78 1,2,3-Trichloropropane	110	8.461	8.458	(0.928)	9488	10.0000	9.80(Q)	
79 n-Propylbenzene	91	8.488	8.489	(0.931)	98710	10.0000	9.50	
80 2-Chlorotoluene	91	8.547	8.544	(0.937)	61065	10.0000	8.76	
81 1,3,5-Trimethylbenzene	105	8.622	8.622	(0.945)	75901	10.0000	9.22	
82 4-Chlorotoluene	126	8.636	8.633	(0.947)	24385	10.0000	9.42	
83 tert-Butylbenzene	119	8.833	8.834	(0.969)	86921	10.0000	9.74	
84 1,2,4-Trimethylbenzene	105	8.878	8.875	(0.973)	77575	10.0000	9.07	
85 sec-Butylbenzene	105	8.986	8.987	(0.985)	87043	10.0000	9.11	
86 1,3-Dichlorobenzene	146	9.067	9.067	(0.994)	50547	10.0000	9.76	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	76076	10.0000	9.37	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	126387	50.0000		
89 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	52288	10.0000	8.93	
90 1,2-Dichlorobenzene	146	9.368	9.368	(1.027)	49832	10.0000	9.69	
91 n-Butylbenzene	91	9.356	9.359	(1.026)	60533	10.0000	9.10	
92 1,2-Dibromo-3-chloropropane	155	9.871	9.874	(1.082)	6221	10.0000	9.85	
93 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	29819	10.0000	9.67	
94 Hexachlorobutadiene	225	10.450	10.453	(1.146)	11080	10.0000	8.64	
95 Naphthalene	128	10.536	10.533	(1.155)	90963	10.0000	9.39	
96 1,2,3-Trichlorobenzene	180	10.667	10.664	(1.170)	28314	10.0000	9.46	
97 2,methyl-naphthalene	142	11.229	11.226	(1.231)	40268	10.0000	9.49	
98 1-Methylnaphthalene	142	11.348	11.349	(1.244)	35145	10.0000	9.22	

QC Flag Legend

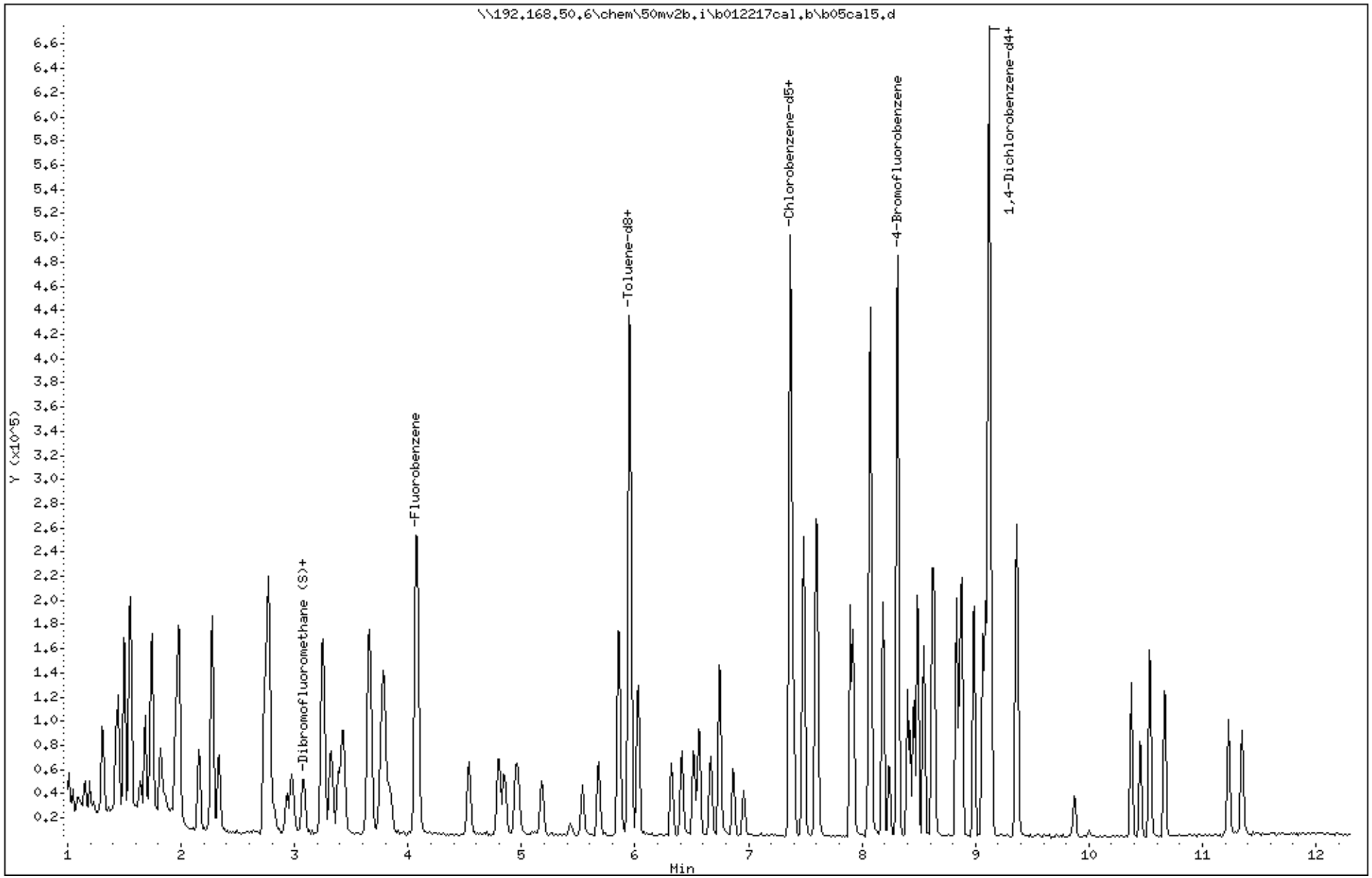
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b05cal5.d
Date : 23-JAN-2017 00:22
Client ID: 8260-CAL5
Sample Info: 8260-CAL5,140430:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



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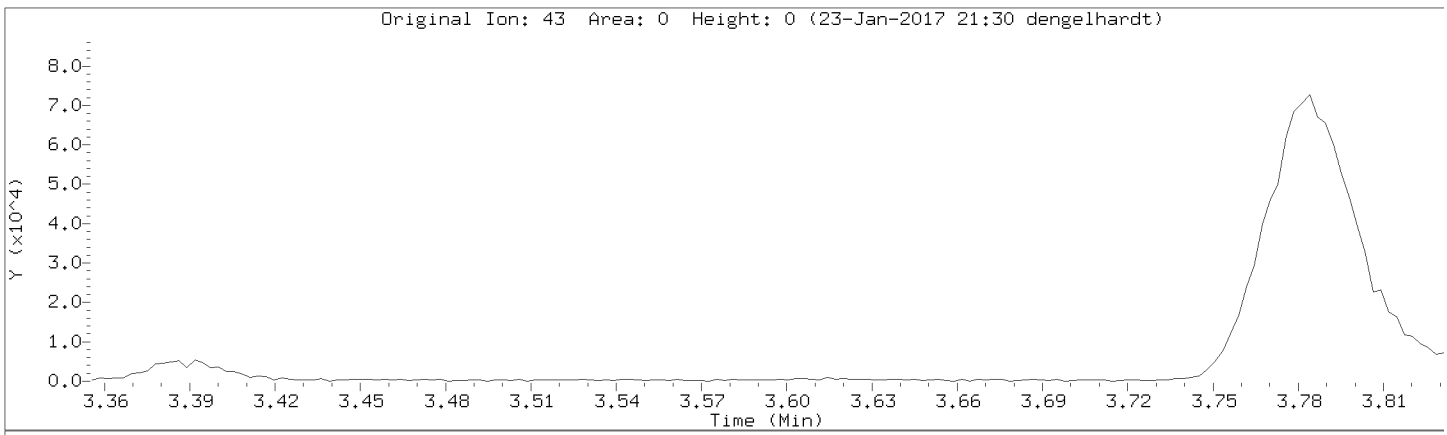
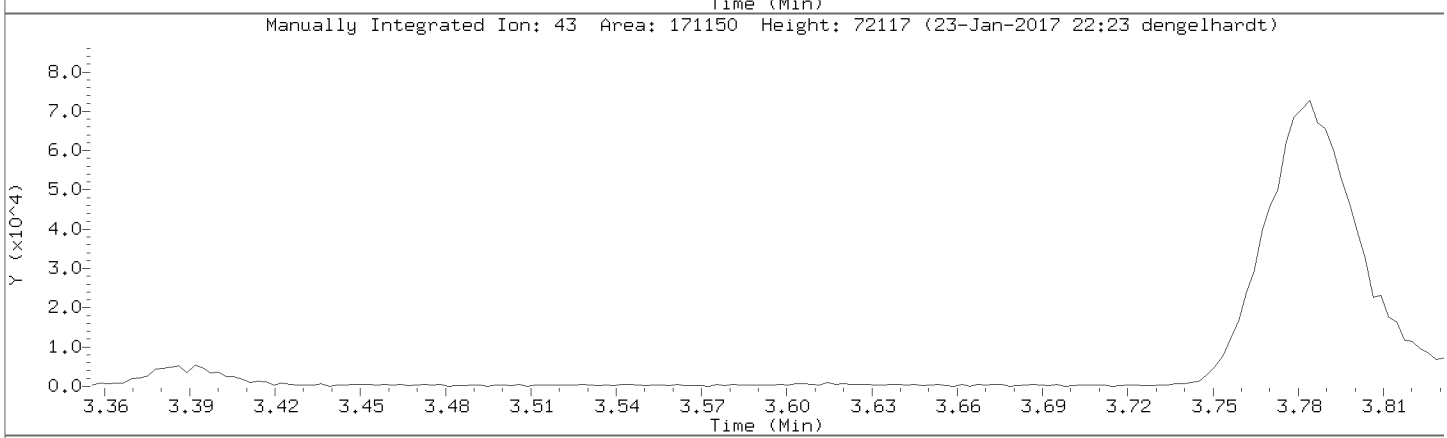
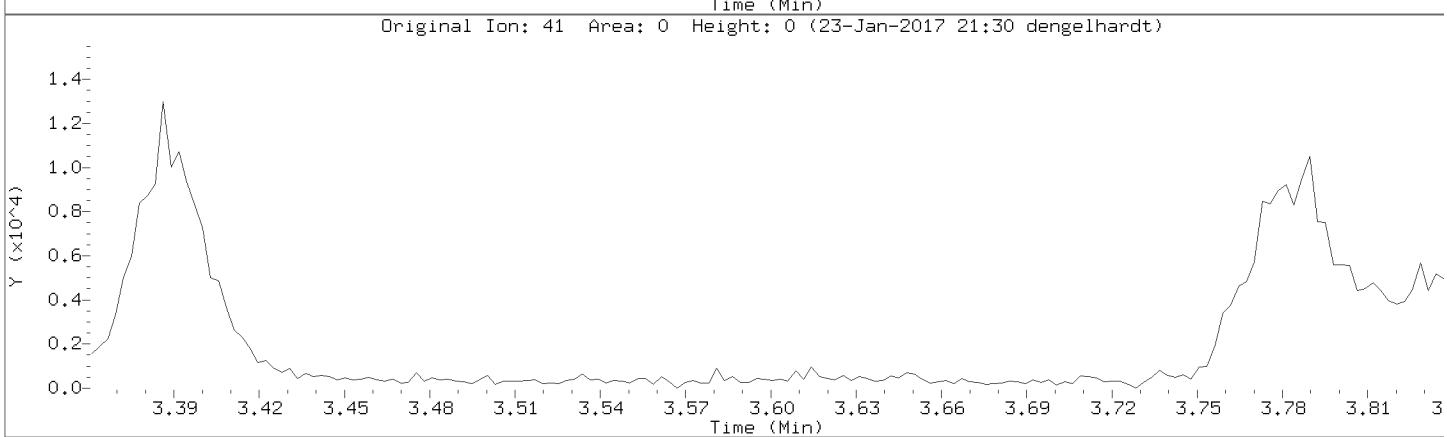
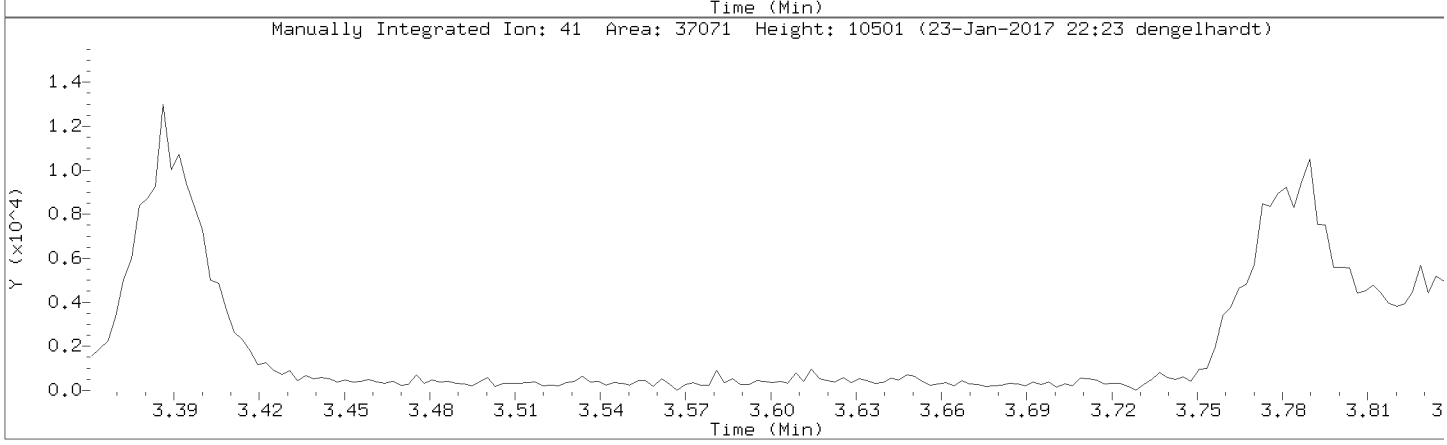
Injection Date: 23-JAN-2017 00:22
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1









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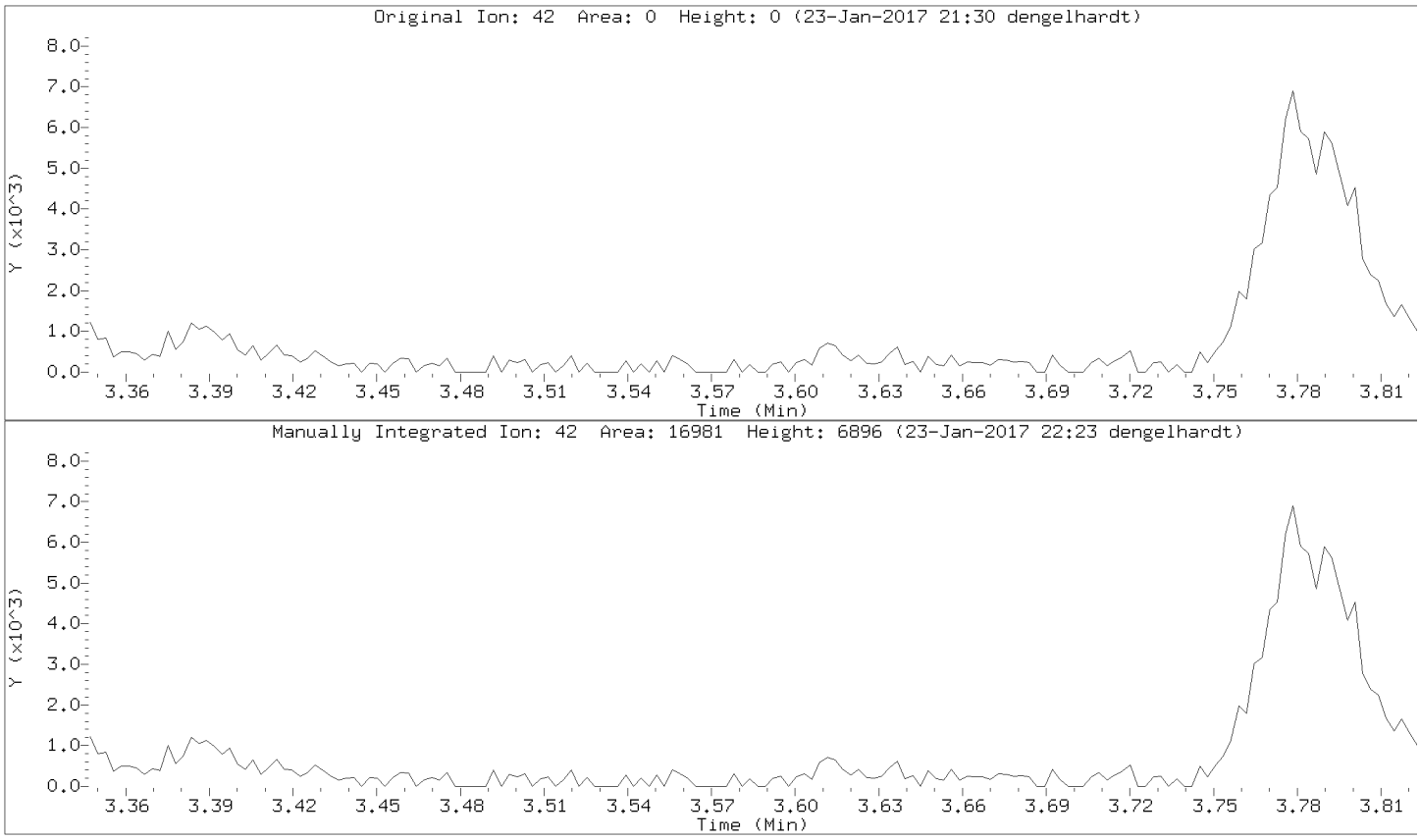
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5



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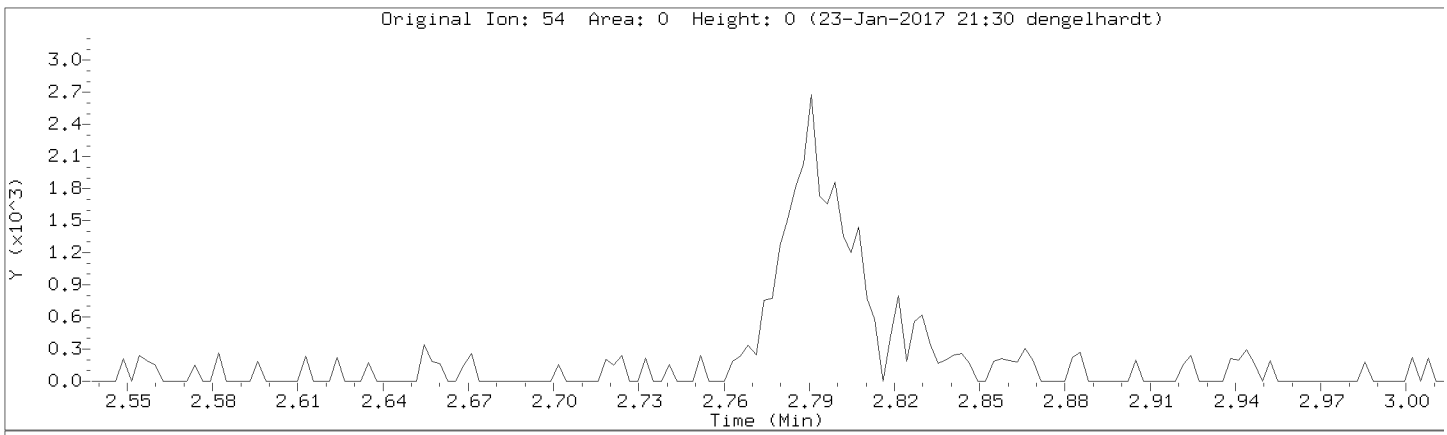
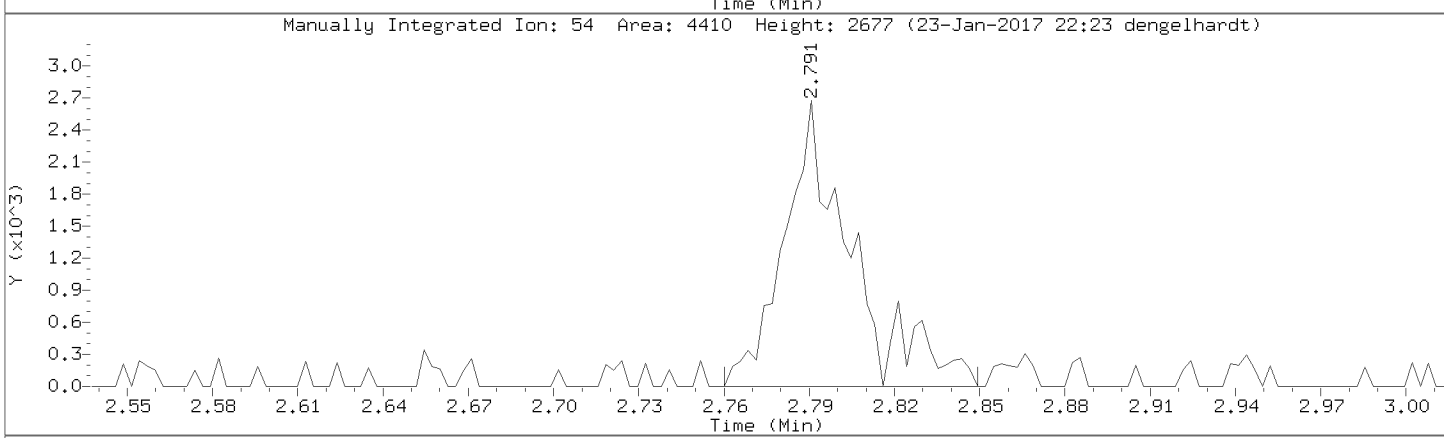
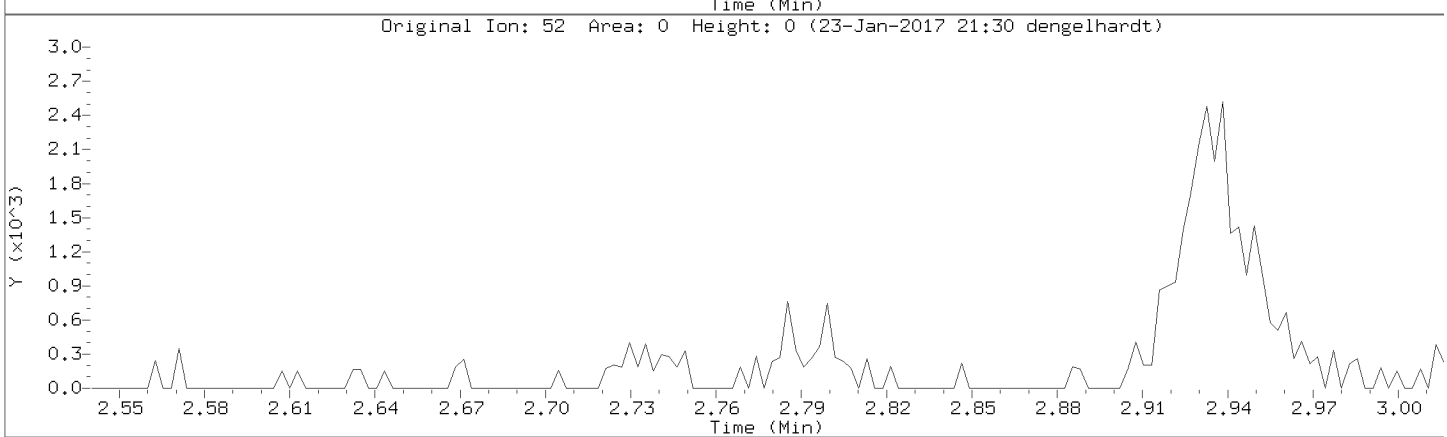
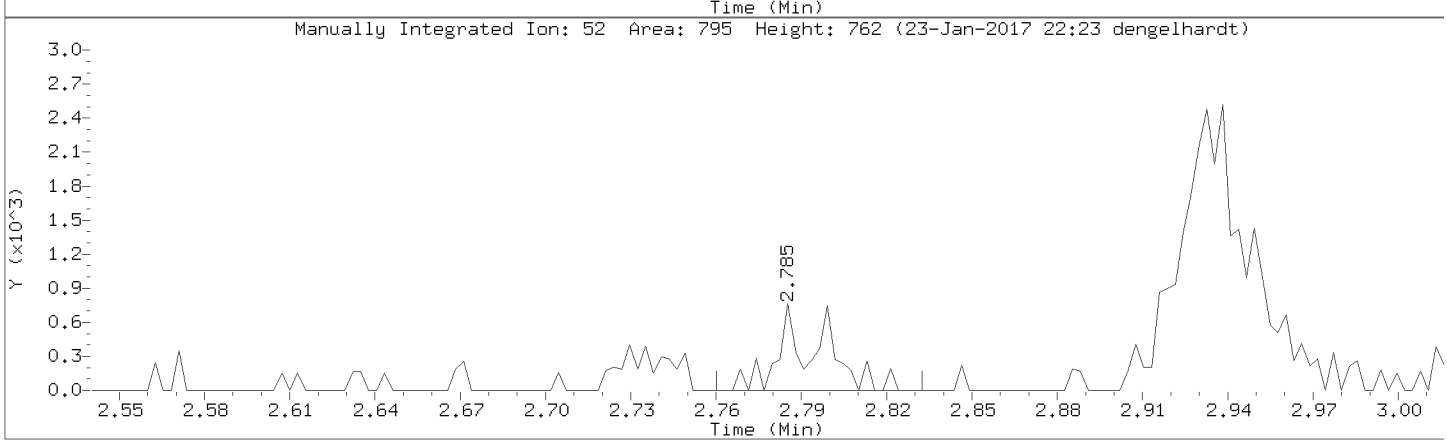
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0









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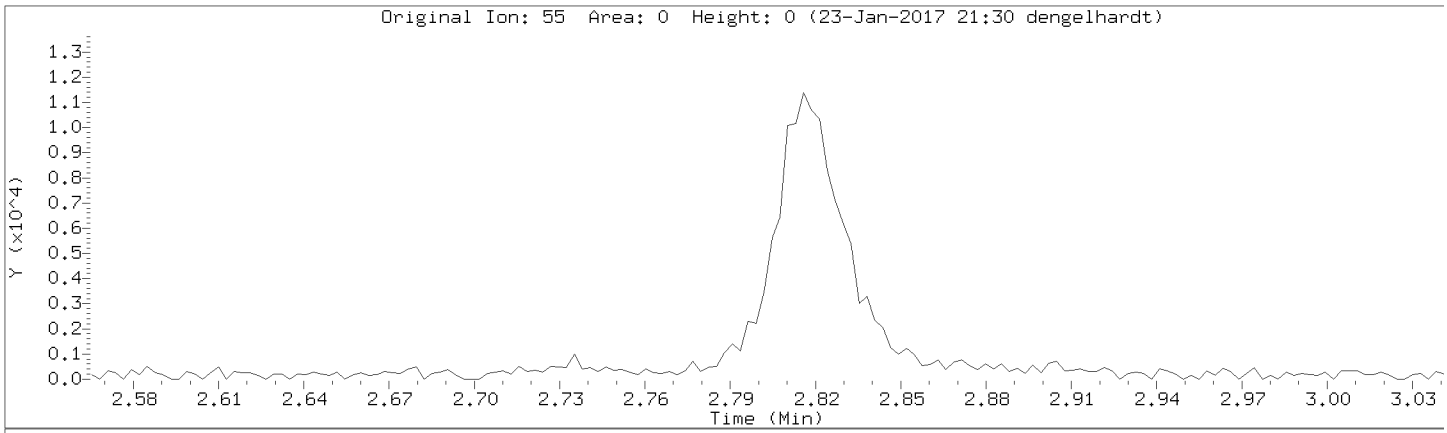
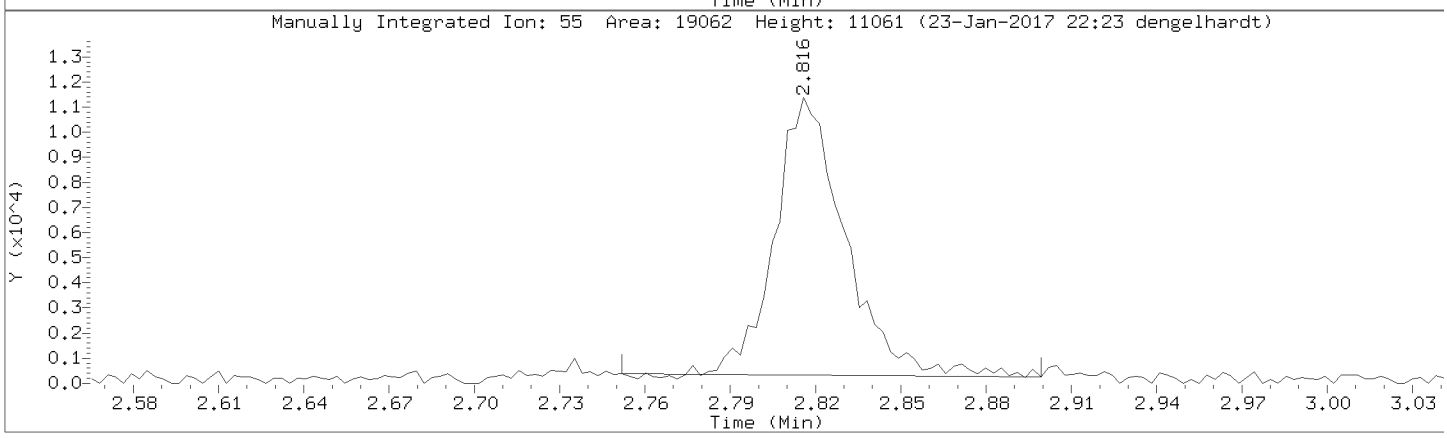
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5





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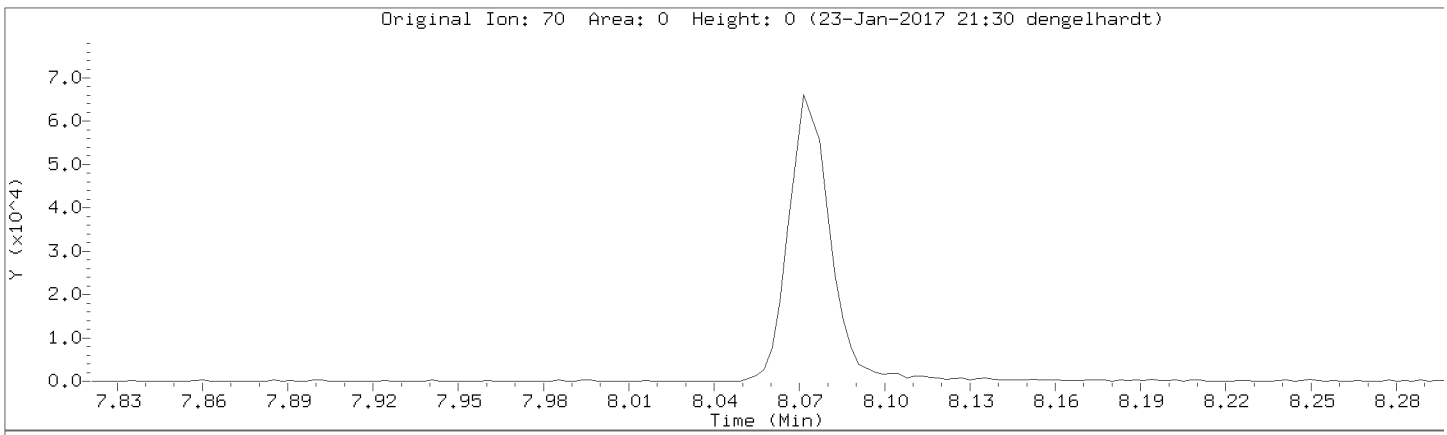
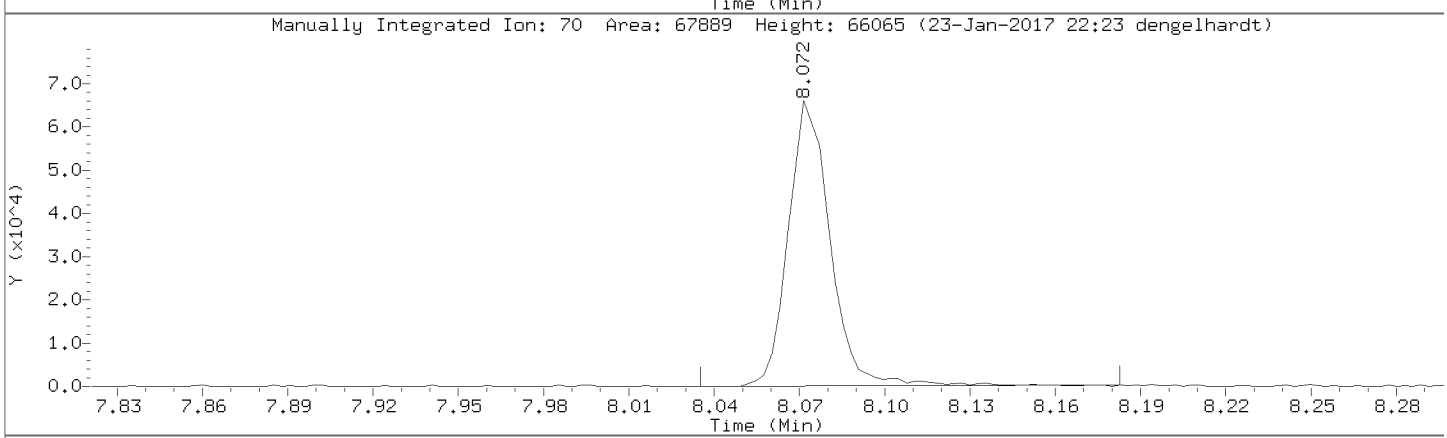
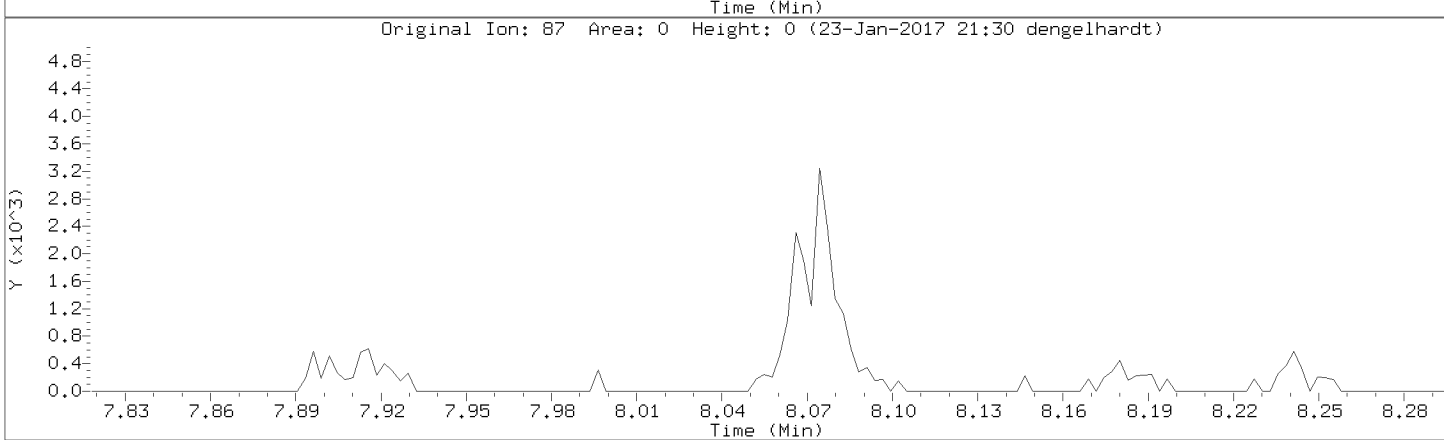
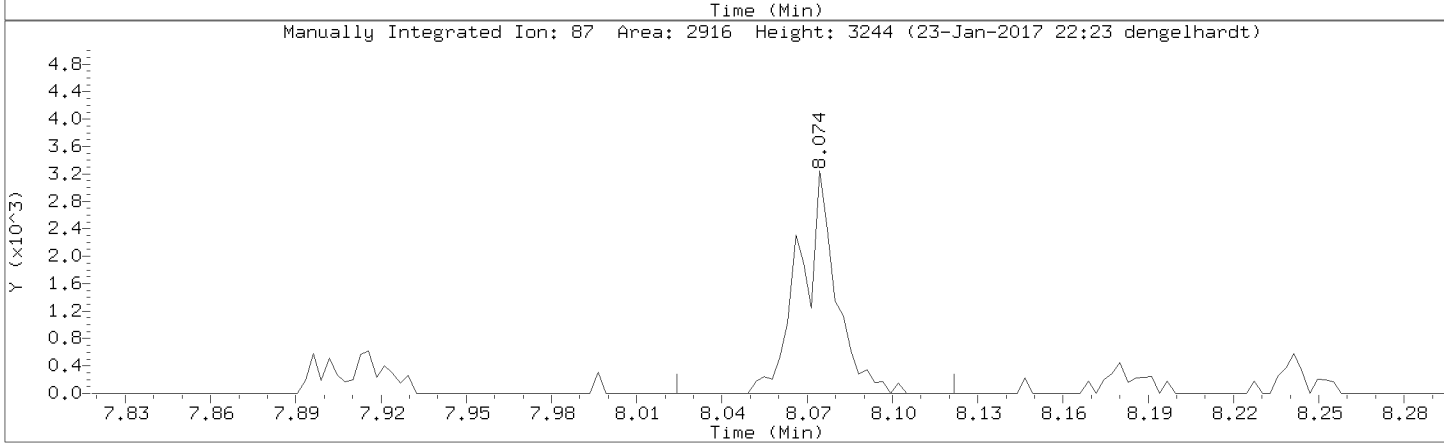
Injection Date: 23-JAN-2017 00:22
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5

Compound: n-amyl acetate Review Code: NI
CAS Number: 628-63-7









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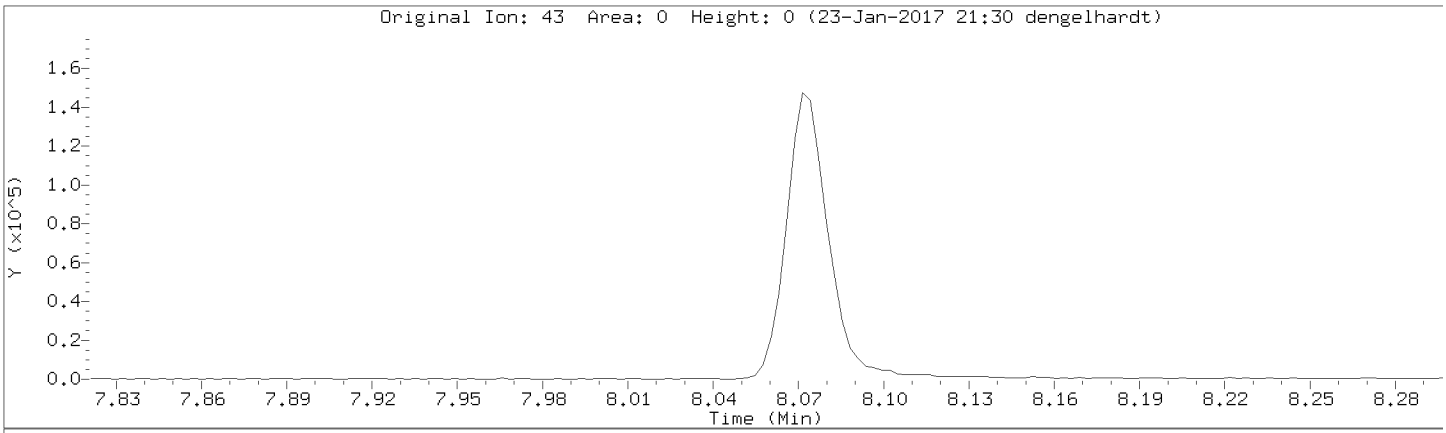
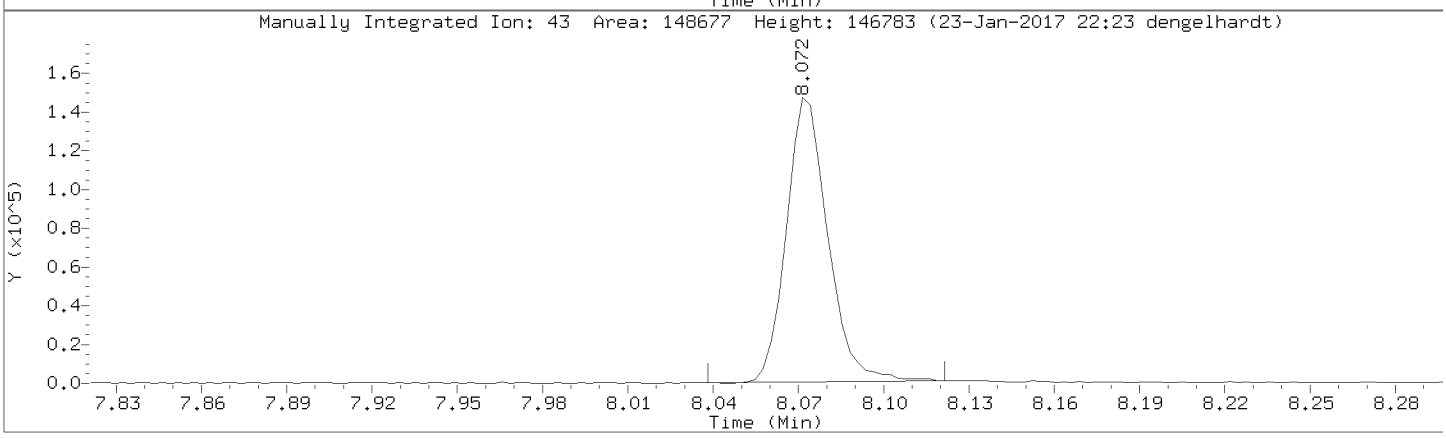
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL5





Pace Analytical Services, Inc.

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Inj Date : 23-JAN-2017 00:55
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal6,140431:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 59 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.216)	83838	50.0000	53.5	
2 Chloromethane	50	0.990	0.990	(0.243)	108596	50.0000	40.5	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	118992	50.0000	48.0	
4 Bromomethane	94	1.149	1.149	(0.282)	42552	50.0000	32.0	
5 Chloroethane	64	1.194	1.193	(0.293)	70291	50.0000	46.2	
6 Trichlorofluoromethane	101	1.305	1.305	(0.320)	150872	50.0000	54.3	
7 Diethyl ether	74	1.427	1.427	(0.350)	70546	50.0000	43.8	
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.354)	118056	50.0000	33.6	
9 Acrolein	56	1.500	1.500	(0.368)	343684	1000.00	994	
10 1,1,2trichlorotrifluoroethane	101	1.547	1.547	(0.379)	99102	50.0000	45.9	
11 1,1-Dichloroethene	96	1.552	1.550	(0.381)	87449	50.0000	37.9	
12 Acetone	43	1.564	1.564	(0.383)	198123	250.000	169	
13 Iodomethane	142	1.639	1.636	(0.402)	153047	100.000	220	
14 Carbon Disulfide	76	1.683	1.683	(0.413)	240476	50.0000	38.1	
15 Methyl Acetate	43	1.728	1.728	(0.424)	119825	50.0000	32.8	
16 Acetonitrile	39	1.742	1.742	(0.427)	213208	50.0000	57.9	
17 allyl chloride	41	1.742	1.742	(0.427)	309340	100.000	116	
18 Methylene Chloride	84	1.817	1.817	(0.445)	95052	50.0000	29.4	
19 tert-Butyl Alcohol	59	1.864	1.861	(0.457)	23360	100.000	67.5(Q)	
20 Acrylonitrile	53	1.950	1.950	(0.478)	205763	200.000	153	
21 Methyl-tert-butyl ether	73	1.973	1.973	(0.484)	324608	50.0000	49.4	
22 1,2-Dichloroethene (trans)	96	1.984	1.981	(0.486)	92278	50.0000	35.1	
23 n-Hexane	57	2.156	2.156	(0.529)	127000	50.0000	44.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.270	2.270	(0.557)	947845	200.000	256(M)	WP
25 1,1-Dichloroethane	63	2.279	2.279	(0.559)	165742	50.0000	44.4	
26 Chloroprene	53	2.332	2.331	(0.572)	140744	50.0000	46.8	
147 Ethyl acetate	88	2.768	2.774	(0.679)	49129	400.000	400(Q)	
27 2-Butanone	72	2.729	2.732	(0.669)	74546	250.000	263	
28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.673)	104067	50.0000	41.2	
29 2,2-Dichloropropane	77	2.746	2.746	(0.673)	107604	50.0000	44.8	
30 Propionitrile	54	2.791	2.788	(0.684)	21060	50.0000	40.0(Q)	
31 Methacrylonitrile	41	2.930	2.932	(0.718)	74485	50.0000	33.9	
32 Bromochloromethane	49	2.969	2.971	(0.728)	85736	50.0000	44.6	
33 Tetrahydrofuran	42	2.991	2.985	(0.733)	37561	50.0000	20.3	
34 Chloroform	83	3.080	3.077	(0.755)	166153	50.0000	41.4	
$ 35 Dibromofluoromethane (S)	113	3.250	3.252	(0.797)	65392	50.0000	46.8	
36 1,1,1-Trichloroethane	97	3.241	3.247	(0.795)	148123	50.0000	44.2	
37 cyclohexane	56	3.322	3.325	(0.814)	156465	50.0000	39.8	
146 n-butyl chloride	56	3.386	3.325	(0.830)	199887	50.0000	43.6	
38 Carbon Tetrachloride	117	3.419	3.419	(0.838)	134341	50.0000	47.9	
39 1,1-Dichloropropene	75	3.425	3.430	(0.840)	133263	50.0000	49.0	
40 Benzene	78	3.664	3.667	(0.898)	376687	50.0000	47.3	
41 1,2-Dichloroethane	62	3.759	3.756	(0.922)	138255	50.0000	46.7	
42 2,2,4-Trimethylpentane	57	3.837	3.839	(0.941)	230957	50.0000	41.9	
43 Isobutyl alcohol	43	3.784	3.606	(0.928)	927233	50.0000	48.8(M)	WP
148 Isopropyl acetate	61	3.784	3.784	(0.928)	195131	200.000	206(M)	WP
* 44 Fluorobenzene	96	4.079	4.070	(1.000)	247917	50.0000		
45 Trichloroethene	95	4.532	4.532	(1.111)	93896	50.0000	48.3	
46 Methylcyclohexane	55	4.799	4.799	(1.177)	104904	50.0000	32.2	
47 1,2-Dichloropropane	63	4.847	4.849	(1.188)	98083	50.0000	46.2	
48 Dibromomethane	93	4.947	4.947	(1.213)	64027	50.0000	40.8	
49 Methyl methacrylate	69	4.964	4.966	(1.217)	79447	50.0000	44.5	
50 1,4-Dioxane	88	4.952	4.952	(1.214)	30074	1000.00	1050	
51 Bromodichloromethane	83	5.178	5.175	(1.269)	128692	50.0000	44.2	
52 2-Chloroethyl vinyl ether	63	5.531	5.537	(0.751)	74430	100.000	91.1	
53 cis-1,3-Dichloropropene	75	5.676	5.678	(0.770)	162786	50.0000	57.7	
54 4-Methyl-2-Pentanone	43	5.857	5.854	(0.795)	536342	250.000	256	
$ 55 Toluene-d8	98	5.951	5.951	(0.808)	240356	50.0000	50.3	
56 Toluene	91	6.026	6.023	(0.818)	392768	50.0000	45.4	
57 trans-1,3-Dichloropropene	75	6.321	6.318	(0.858)	143128	50.0000	57.2	
58 Ethyl Methacrylate	69	6.408	6.407	(0.870)	140596	50.0000	47.7	
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	73400	50.0000	47.2	
60 Tetrachloroethene	166	6.563	6.566	(0.891)	114120	50.0000	49.8	
61 1,3-Dichloropropane	76	6.663	6.666	(0.904)	158893	50.0000	53.6	
62 2-Hexanone	43	6.741	6.741	(0.915)	372246	250.000	252	
63 Dibromochloromethane	129	6.867	6.864	(0.932)	107642	50.0000	51.6	
64 1,2-Dibromoethane	107	6.956	6.956	(0.944)	98235	50.0000	53.8	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	195390	50.0000		
66 Chlorobenzene	112	7.392	7.392	(1.003)	272399	50.0000	49.3	
67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	101887	50.0000	51.8	
68 Ethylbenzene	106	7.484	7.487	(1.016)	145725	50.0000	47.9	
69 m&p-Xylene	106	7.596	7.598	(1.031)	365586	100.000	99.4	
70 o-Xylene	106	7.899	7.899	(1.072)	178467	50.0000	50.2	
71 Styrene	104	7.918	7.918	(1.075)	314677	50.0000	53.5	
72 Bromoform	173	8.055	8.057	(0.883)	90962	50.0000	50.4	
73 Isopropylbenzene	105	8.183	8.182	(1.111)	444439	50.0000	50.0	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	94880	50.0000	51.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149	n-amyl acetate	70	8.071	8.071	(1.096)	352755	200.000	220	
75	Bromobenzene	77	8.402	8.405	(1.140)	170214	50.0000	45.5	
76	1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	127856	50.0000	44.6	
77	trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	33923	50.0000	45.0(Q)	
78	1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	43284	50.0000	46.1(Q)	
79	n-Propylbenzene	91	8.489	8.489	(0.931)	505878	50.0000	50.5	
80	2-Chlorotoluene	91	8.544	8.544	(0.937)	300657	50.0000	45.4	
81	1,3,5-Trimethylbenzene	105	8.619	8.622	(0.945)	370370	50.0000	46.9	
82	4-Chlorotoluene	126	8.633	8.633	(0.947)	119501	50.0000	47.9	
83	tert-Butylbenzene	119	8.834	8.834	(0.969)	435897	50.0000	50.4	
84	1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	393027	50.0000	48.0	
85	sec-Butylbenzene	105	8.984	8.987	(0.985)	443262	50.0000	48.4	
86	1,3-Dichlorobenzene	146	9.065	9.067	(0.994)	249782	50.0000	49.7	
87	p-Isopropyltoluene	119	9.090	9.092	(0.997)	392724	50.0000	50.2	
* 88	1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	123185	50.0000		
89	1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	258590	50.0000	46.3	
90	1,2-Dichlorobenzene	146	9.365	9.368	(1.027)	246749	50.0000	49.5	
91	n-Butylbenzene	91	9.357	9.359	(1.026)	314889	50.0000	49.5	
92	1,2-Dibromo-3-chloropropane	155	9.871	9.874	(1.082)	31350	50.0000	51.1	
93	1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	159390	50.0000	53.4	
94	Hexachlorobutadiene	225	10.450	10.453	(1.146)	61367	50.0000	50.5	
95	Naphthalene	128	10.534	10.533	(1.155)	460595	50.0000	49.4	
96	1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	149381	50.0000	51.7	
97	2,methyl-naphthalene	142	11.229	11.226	(1.231)	227757	50.0000	55.6	
98	1-Methylnaphthalene	142	11.349	11.349	(1.244)	196521	50.0000	53.7	

QC Flag Legend

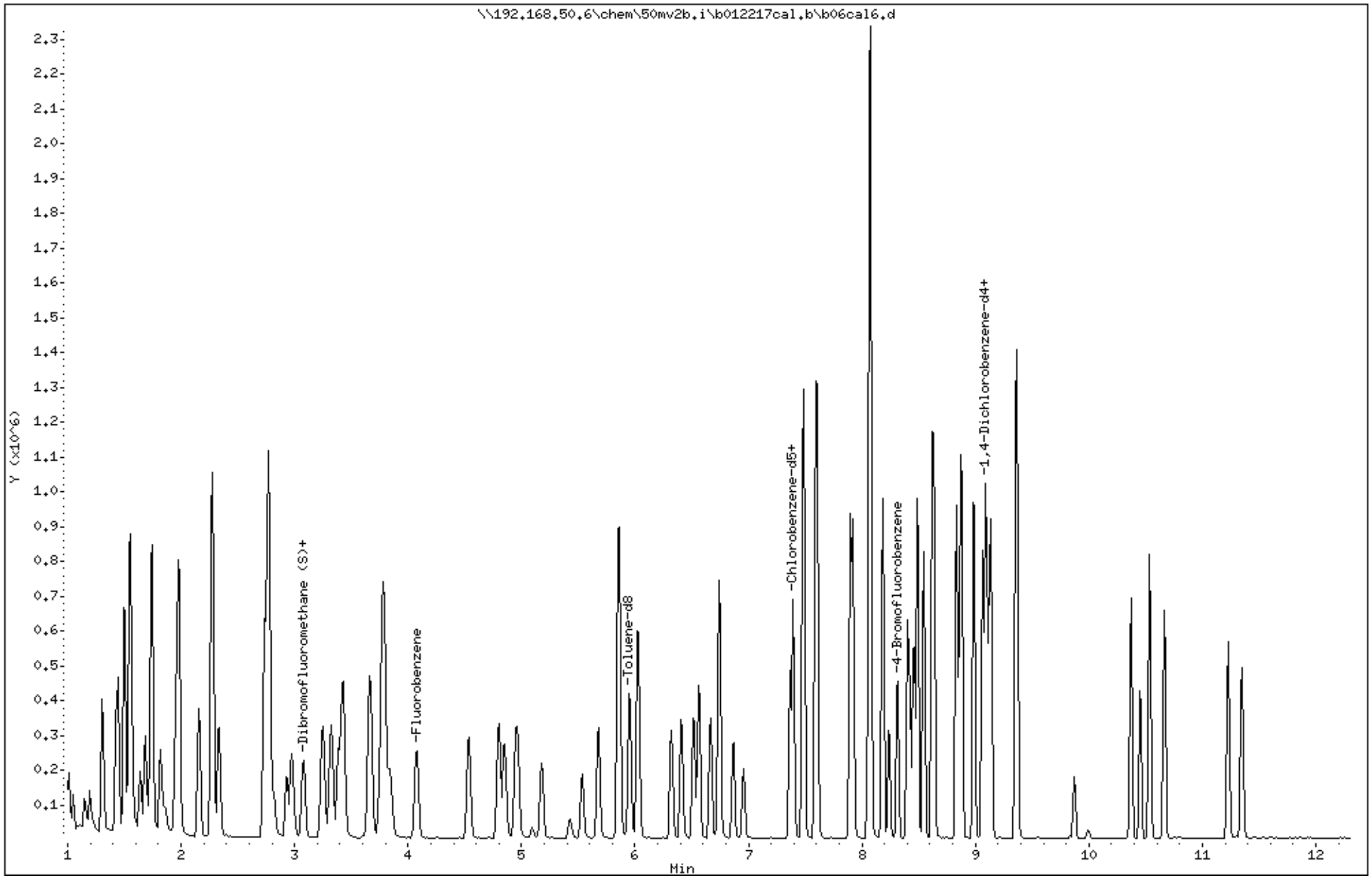
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b06cal6.d
Date : 23-JAN-2017 00:55
Client ID: 8260-CAL6
Sample Info: 8260-CAL6,140431:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



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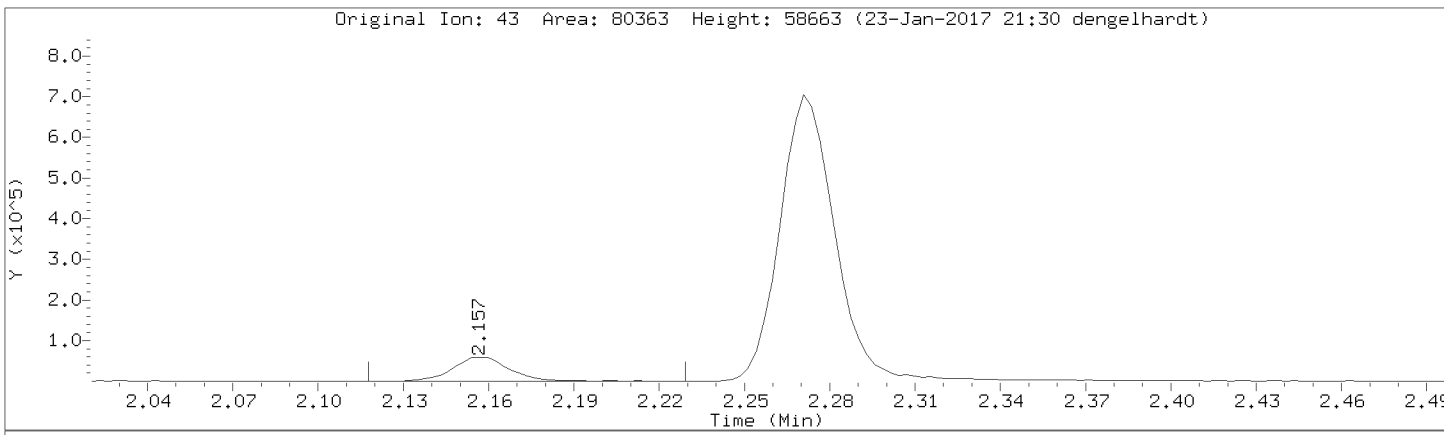
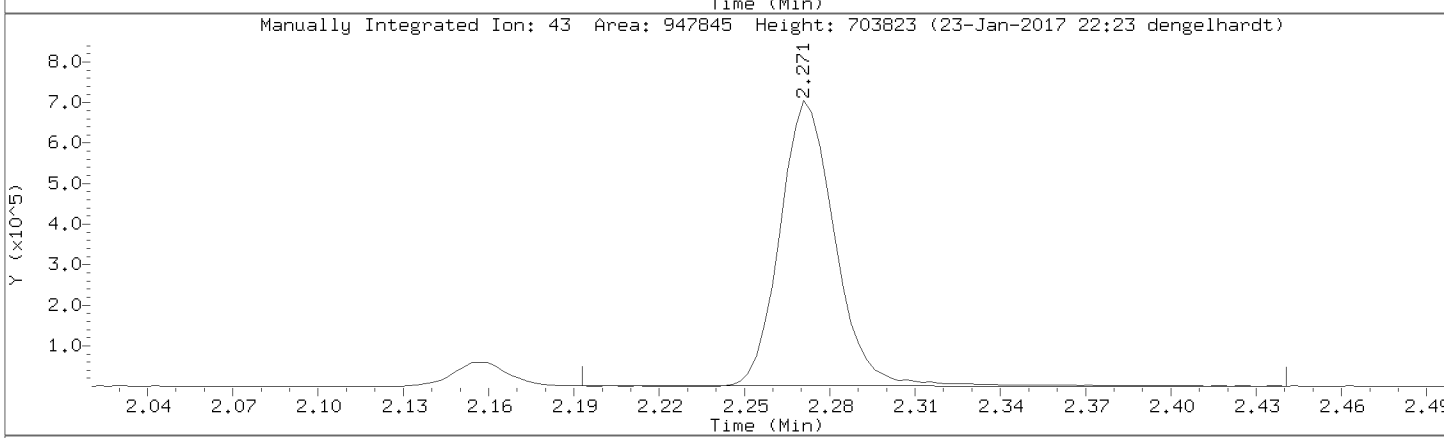
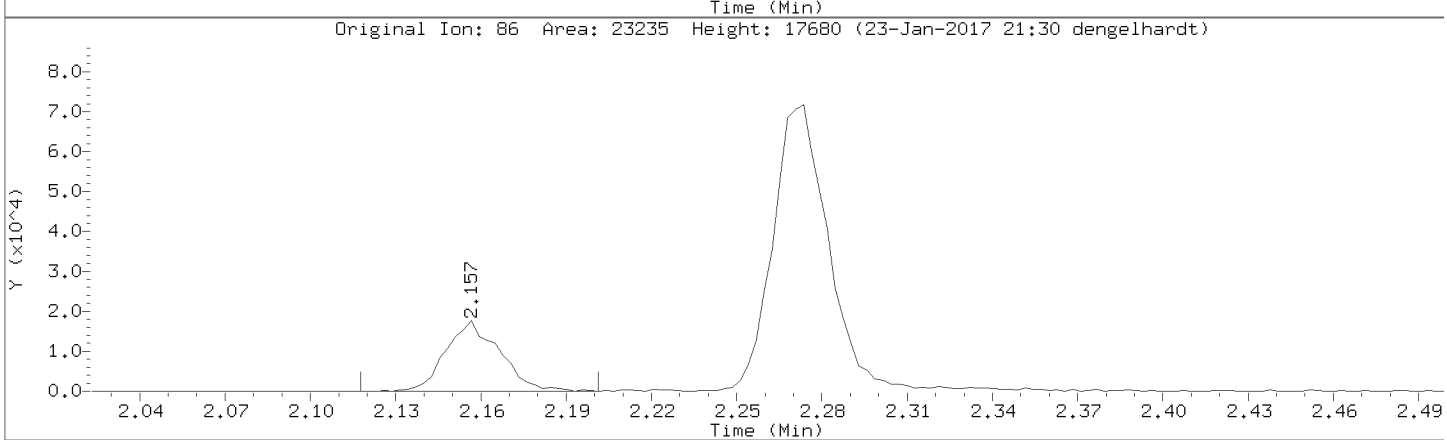
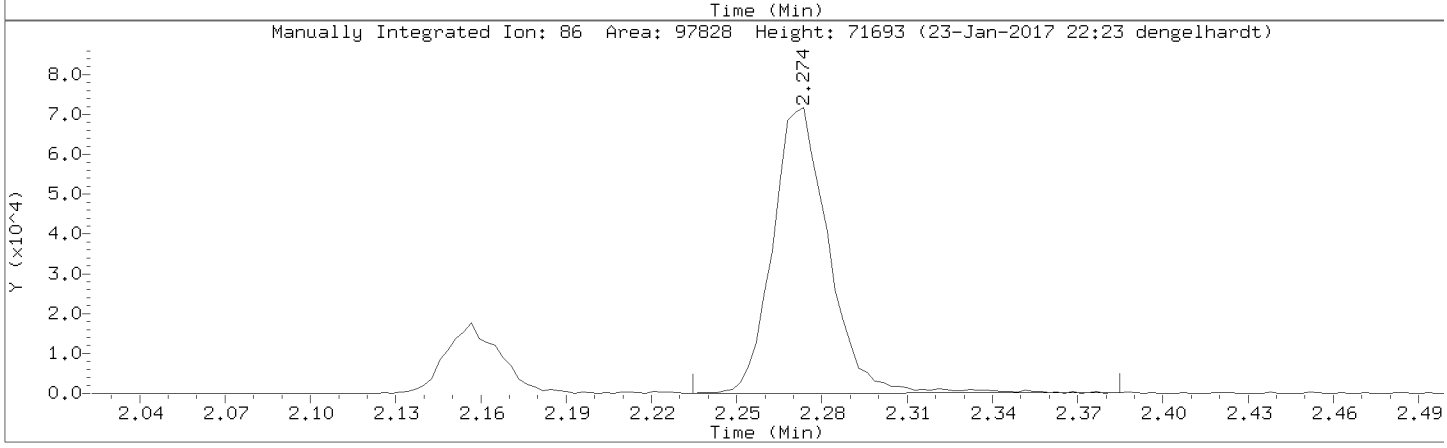
Injection Date: 23-JAN-2017 00:55
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL6

Compound: Vinyl Acetate Review Code: WP
CAS Number: 108-05-4









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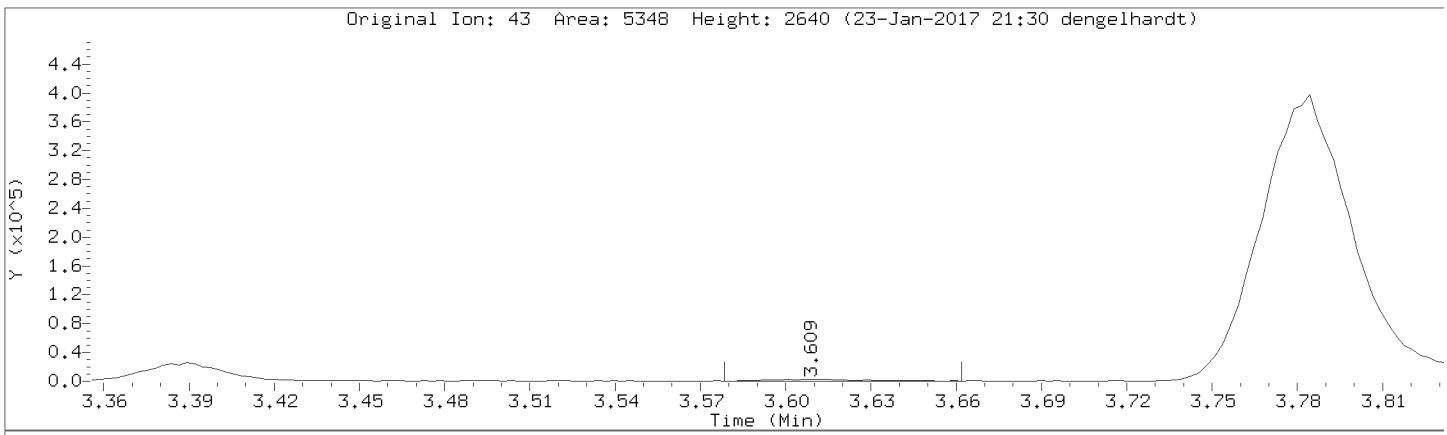
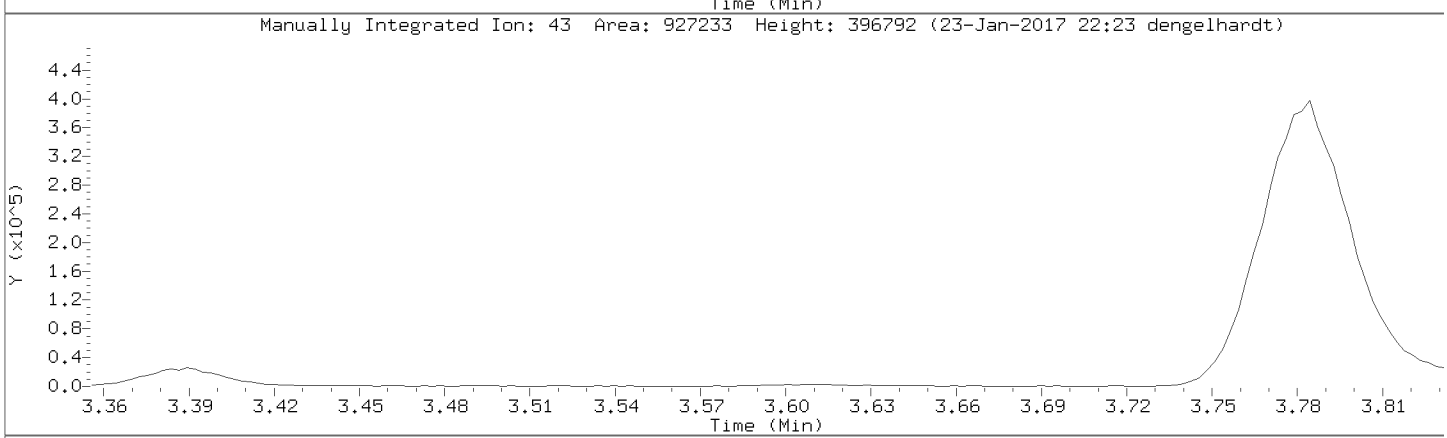
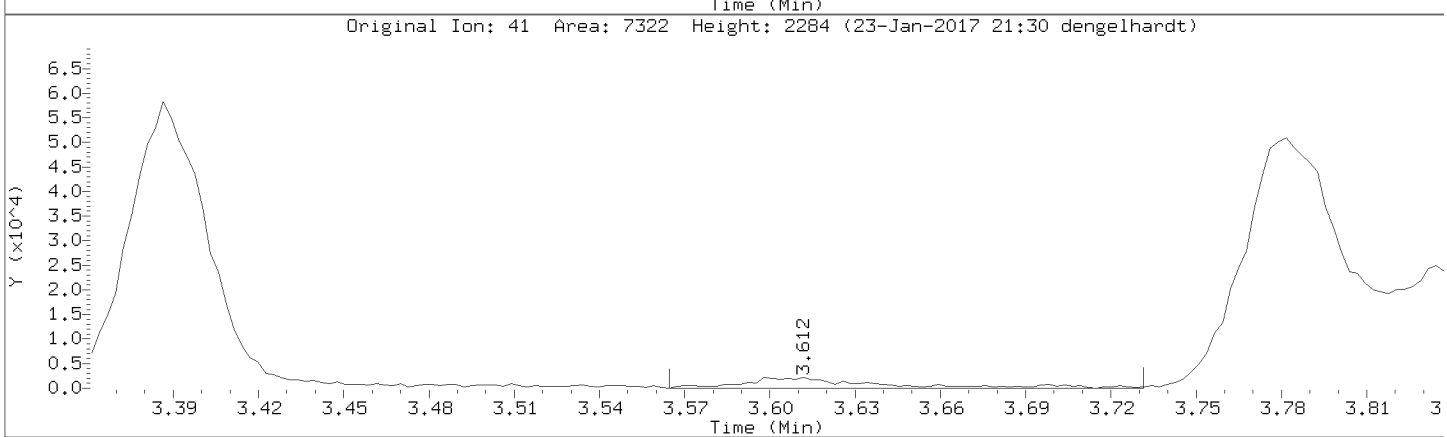
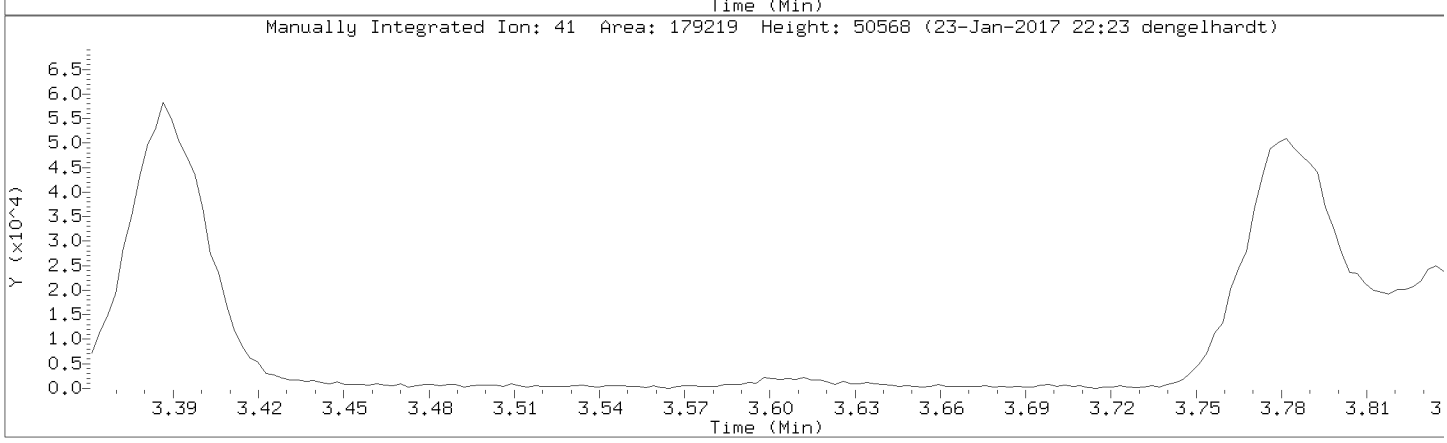
Injection Date: 23-JAN-2017 00:55
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL6

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1









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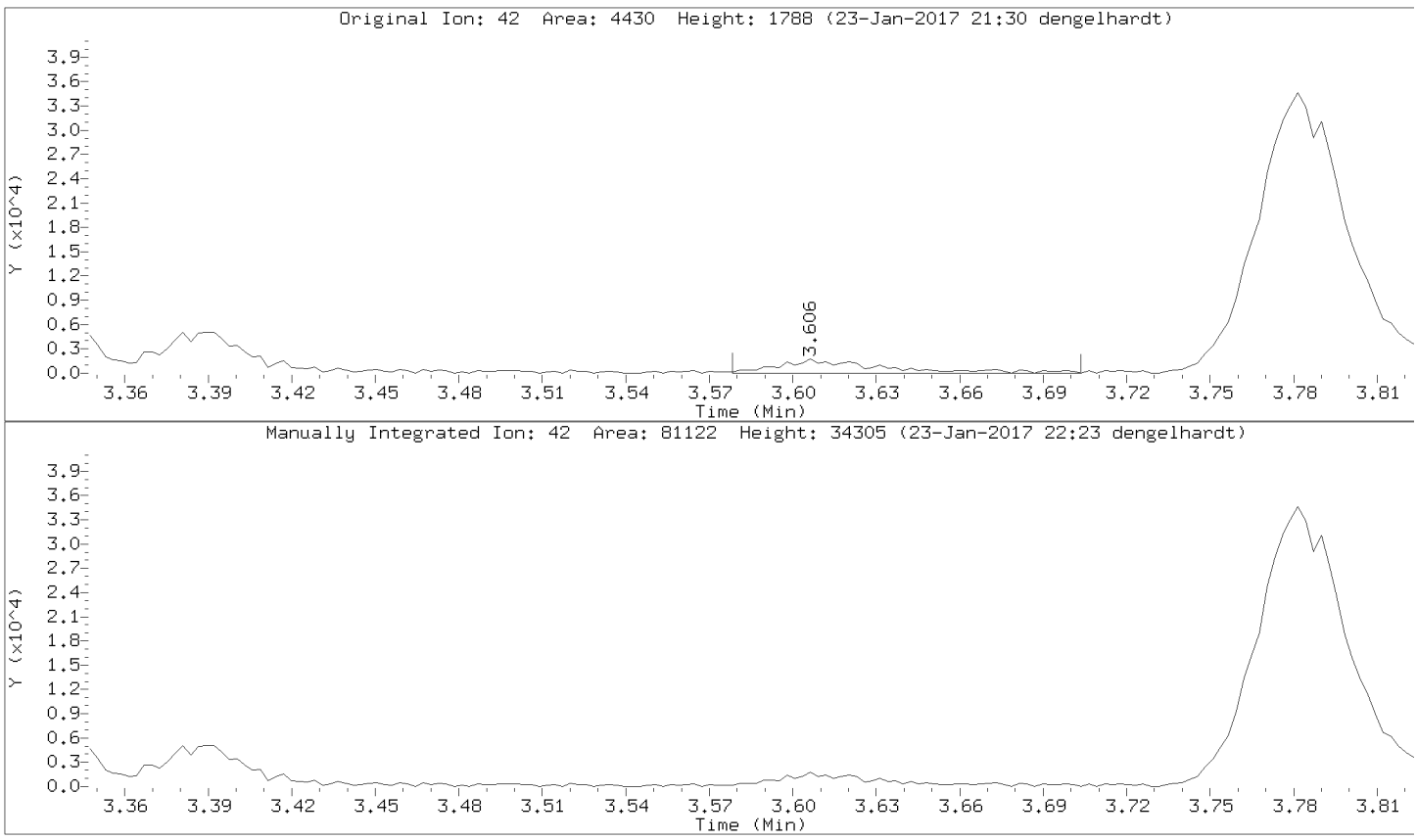
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL6



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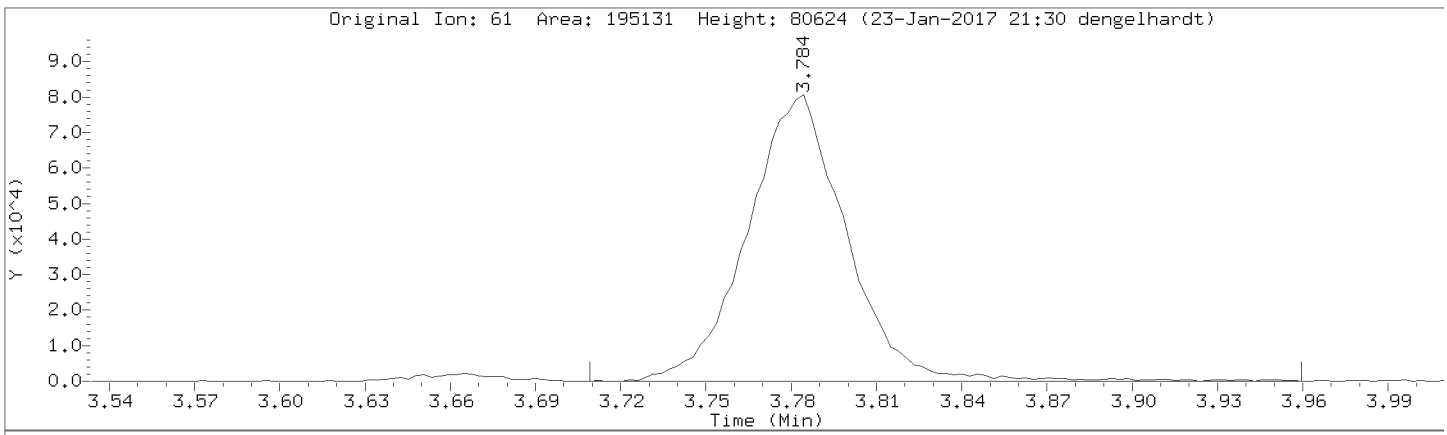
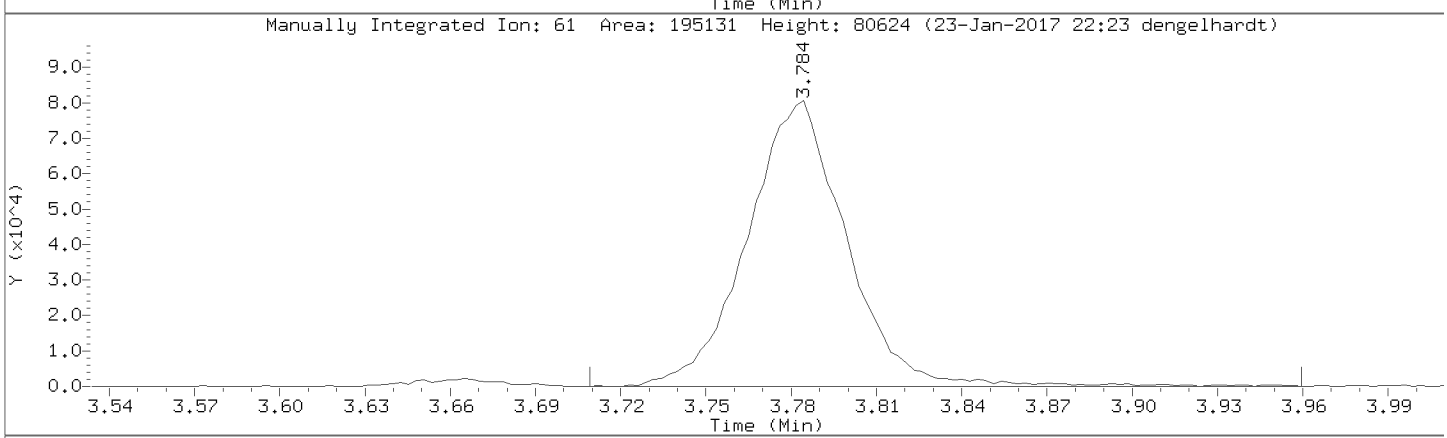
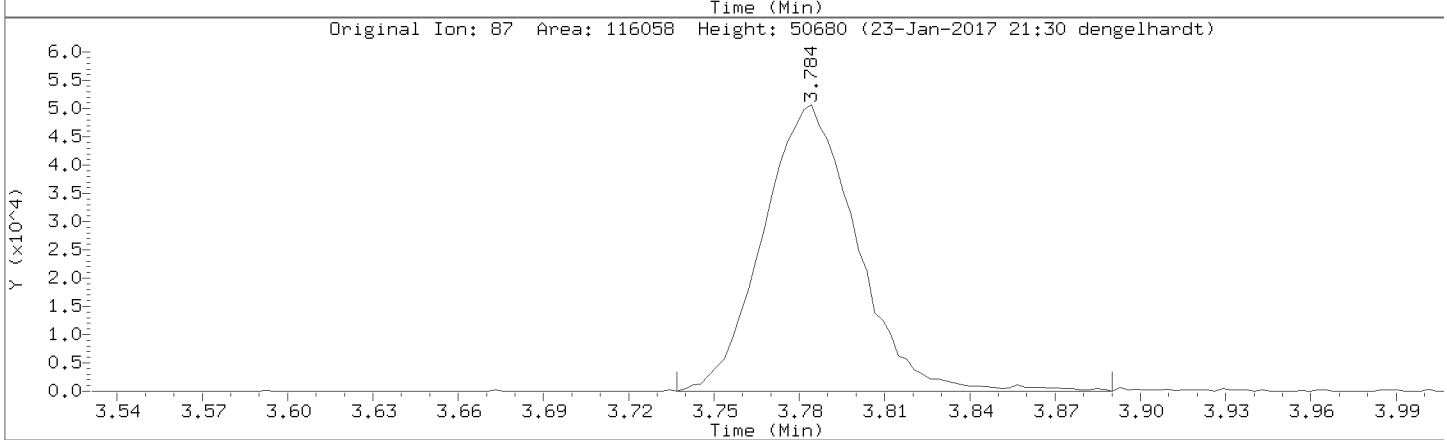
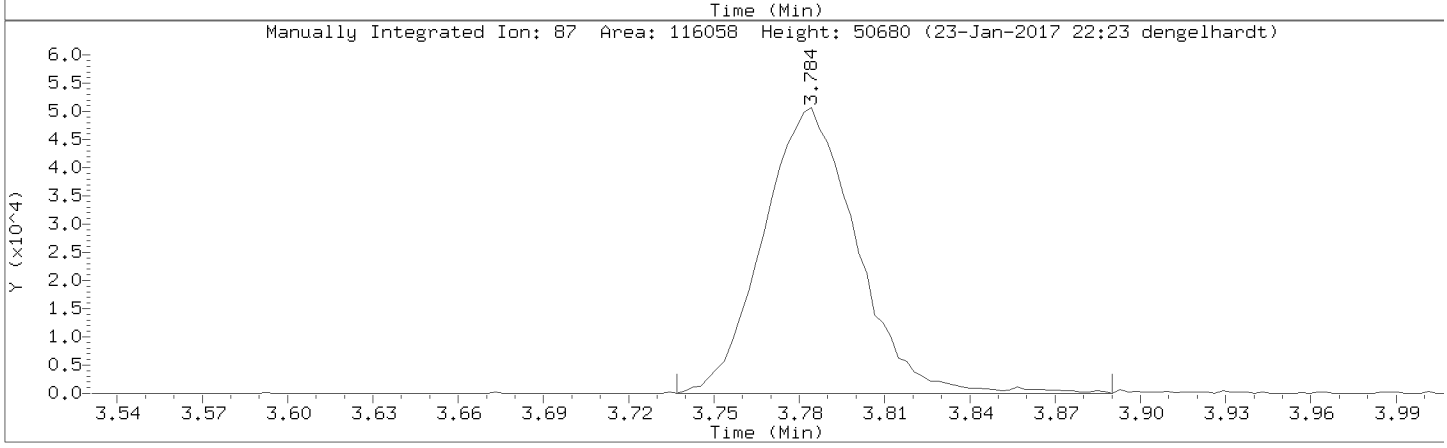
Injection Date: 23-JAN-2017 00:55
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL6

Compound: Isopropyl acetate Review Code: WP
CAS Number: 108-21-4









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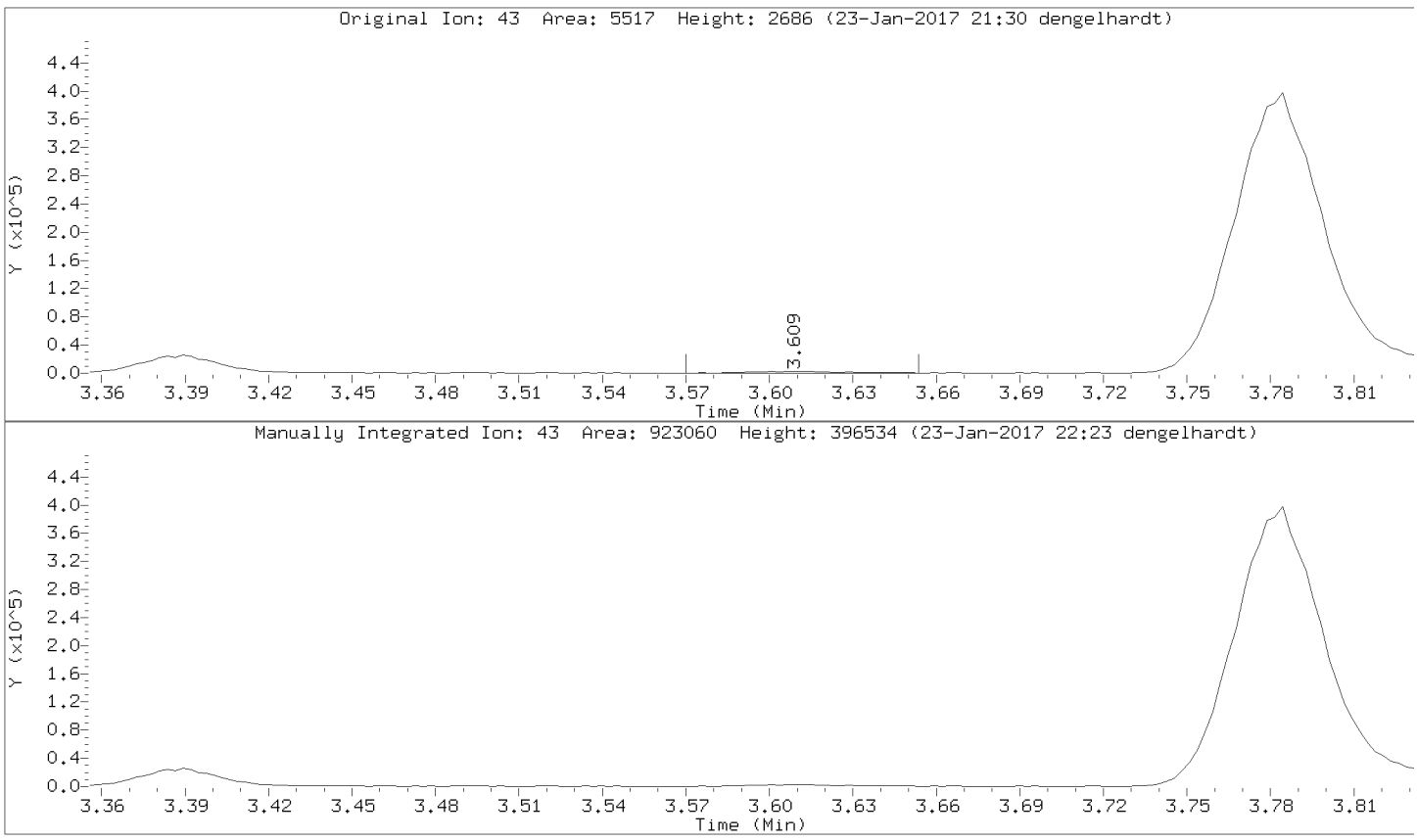
Injection Date: 23-JAN-2017 00:55
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL6



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b07cal7.d
Lab Smp Id: 8260-CAL7 Client Smp ID: 8260-CAL7
Inj Date : 23-JAN-2017 01:28
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal7,140432:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 60 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.216)	244841	150.000	146	
2 Chloromethane	50	0.988	0.990	(0.242)	316576	150.000	116	
3 Vinyl Chloride	62	1.007	1.007	(0.247)	347341	150.000	134	
4 Bromomethane	94	1.144	1.149	(0.281)	122690	150.000	93.2(M)	NI
5 Chloroethane	64	1.191	1.193	(0.292)	213589	150.000	135	
6 Trichlorofluoromethane	101	1.302	1.305	(0.320)	410719	150.000	138	
7 Diethyl ether	74	1.427	1.427	(0.350)	209013	150.000	125	
8 1,2-dichlorotrifluoroethane	67	1.441	1.444	(0.354)	359700	150.000	102	
9 Acrolein	56	1.500	1.500	(0.368)	1036261	3000.00	2840	
10 1,1,2trichlorotrifluoroethane	101	1.544	1.547	(0.379)	296604	150.000	132	
11 1,1-Dichloroethene	96	1.550	1.550	(0.380)	253470	150.000	108	
12 Acetone	43	1.566	1.564	(0.384)	580632	750.000	496	
13 Iodomethane	142	1.639	1.636	(0.402)	516102	300.000	585(M)	NI
14 Carbon Disulfide	76	1.683	1.683	(0.413)	653477	150.000	102	
15 Methyl Acetate	43	1.728	1.728	(0.424)	375849	150.000	103	
16 Acetonitrile	39	1.739	1.742	(0.427)	659820	150.000	165	
17 allyl chloride	41	1.739	1.742	(0.427)	971736	300.000	337	
18 Methylene Chloride	84	1.817	1.817	(0.446)	274694	150.000	86.4	
19 tert-Butyl Alcohol	59	1.861	1.861	(0.457)	72475	300.000	210	
20 Acrylonitrile	53	1.950	1.950	(0.479)	598474	600.000	439	
21 Methyl-tert-butyl ether	73	1.973	1.973	(0.484)	969839	150.000	140	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.486)	275379	150.000	104	
23 n-Hexane	57	2.156	2.156	(0.529)	390673	150.000	132	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.273	2.270	(0.558)	2899690	600.000	709	
25 1,1-Dichloroethane	63	2.279	2.279	(0.559)	489652	150.000	127	
26 Chloroprene	53	2.332	2.331	(0.572)	418251	150.000	133	
147 Ethyl acetate	88	2.771	2.774	(0.680)	148014	1200.00	1140(Q)	
27 2-Butanone	72	2.732	2.732	(0.670)	225659	750.000	747	
28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.673)	304652	150.000	118(M)	NI
29 2,2-Dichloropropane	77	2.746	2.746	(0.674)	323862	150.000	130	
30 Propionitrile	54	2.791	2.788	(0.685)	60953	150.000	113(M)	WP
31 Methacrylonitrile	41	2.933	2.932	(0.719)	227768	150.000	104	
32 Bromochloromethane	49	2.974	2.971	(0.730)	219014	150.000	110	
33 Tetrahydrofuran	42	2.991	2.985	(0.734)	108503	150.000	61.6	
34 Chloroform	83	3.080	3.077	(0.756)	482354	150.000	117	
$ 35 Dibromofluoromethane (S)	113	3.253	3.252	(0.798)	65919	50.0000	45.2	
36 1,1,1-Trichloroethane	97	3.244	3.247	(0.796)	441189	150.000	127	
37 cyclohexane	56	3.322	3.325	(0.815)	479297	150.000	120	
146 n-butyl chloride	56	3.386	3.325	(0.831)	591535	150.000	125	
38 Carbon Tetrachloride	117	3.419	3.419	(0.839)	384925	150.000	131(M)	WP
39 1,1-Dichloropropene	75	3.428	3.430	(0.841)	388803	150.000	136(M)	NI
40 Benzene	78	3.667	3.667	(0.900)	1120624	150.000	134	
41 1,2-Dichloroethane	62	3.759	3.756	(0.922)	408390	150.000	132	
42 2,2,4-Trimethylpentane	57	3.834	3.839	(0.941)	680423	150.000	120(M)	NI
43 Isobutyl alcohol	43	3.781	3.606	(0.928)	2885315	150.000	144(M)	WP
148 Isopropyl acetate	61	3.784	3.784	(0.928)	594724	600.000	592(M)	WP
* 44 Fluorobenzene	96	4.076	4.070	(1.000)	261549	50.0000		
45 Trichloroethene	95	4.535	4.532	(1.113)	282464	150.000	138	
46 Methylcyclohexane	55	4.799	4.799	(1.177)	327195	150.000	101	
47 1,2-Dichloropropane	63	4.847	4.849	(1.189)	297018	150.000	134	
48 Dibromomethane	93	4.950	4.947	(1.214)	187987	150.000	117	
49 Methyl methacrylate	69	4.966	4.966	(1.218)	251141	150.000	136	
50 1,4-Dioxane	88	4.952	4.952	(1.215)	88676	3000.00	2910	
51 Bromodichloromethane	83	5.178	5.175	(1.270)	380666	150.000	126	
52 2-Chloroethyl vinyl ether	63	5.534	5.537	(0.751)	225372	300.000	267	
53 cis-1,3-Dichloropropene	75	5.676	5.678	(0.770)	488128	150.000	161	
54 4-Methyl-2-Pentanone	43	5.857	5.854	(0.795)	1636808	750.000	743	
$ 55 Toluene-d8	98	5.951	5.951	(0.808)	251241	50.0000	50.1	
56 Toluene	91	6.026	6.023	(0.818)	1170911	150.000	131	
57 trans-1,3-Dichloropropene	75	6.319	6.318	(0.858)	449010	150.000	167	
58 Ethyl Methacrylate	69	6.408	6.407	(0.870)	426660	150.000	139	
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	224525	150.000	139	
60 Tetrachloroethene	166	6.563	6.566	(0.891)	335854	150.000	140	
61 1,3-Dichloropropane	76	6.666	6.666	(0.905)	481135	150.000	153	
62 2-Hexanone	43	6.741	6.741	(0.915)	1118049	750.000	722	
63 Dibromochloromethane	129	6.867	6.864	(0.932)	324474	150.000	148	
64 1,2-Dibromoethane	107	6.956	6.956	(0.944)	291917	150.000	151	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	204738	50.0000		
66 Chlorobenzene	112	7.392	7.392	(1.003)	795541	150.000	138	
67 1,1,1,2-Tetrachloroethane	131	7.482	7.481	(1.015)	309168	150.000	149	
68 Ethylbenzene	106	7.487	7.487	(1.016)	429573	150.000	136	
69 m&p-Xylene	106	7.598	7.598	(1.031)	1060277	300.000	275	
70 o-Xylene	106	7.899	7.899	(1.072)	526931	150.000	141	
71 Styrene	104	7.918	7.918	(1.075)	933948	150.000	150	
72 Bromoform	173	8.055	8.057	(0.883)	278737	150.000	148	
73 Isopropylbenzene	105	8.183	8.182	(1.111)	1338706	150.000	144	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	98524	50.0000	50.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.071	8.071	(1.096)	1074141	600.000	628	
75 Bromobenzene	77	8.402	8.405	(1.140)	505561	150.000	131	
76 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	387828	150.000	132	
77 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	103670	150.000	133	
78 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	128495	150.000	133	
79 n-Propylbenzene	91	8.489	8.489	(0.931)	1517682	150.000	145	
80 2-Chlorotoluene	91	8.544	8.544	(0.937)	891467	150.000	131	
81 1,3,5-Trimethylbenzene	105	8.622	8.622	(0.945)	1110135	150.000	136	
82 4-Chlorotoluene	126	8.633	8.633	(0.947)	349933	150.000	136	
83 tert-Butylbenzene	119	8.834	8.834	(0.969)	1271178	150.000	141	
84 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	1152189	150.000	136	
85 sec-Butylbenzene	105	8.987	8.987	(0.985)	1330129	150.000	140	
86 1,3-Dichlorobenzene	146	9.065	9.067	(0.994)	735509	150.000	141	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	1166132	150.000	143	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	128353	50.0000	(Q)	
89 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	753151	150.000	131	
90 1,2-Dichlorobenzene	146	9.365	9.368	(1.027)	710975	150.000	137	
91 n-Butylbenzene	91	9.357	9.359	(1.026)	943384	150.000	142	
92 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	90617	150.000	141	
93 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	494262	150.000	157	
94 Hexachlorobutadiene	225	10.453	10.453	(1.146)	179049	150.000	141	
95 Naphthalene	128	10.534	10.533	(1.155)	1416205	150.000	146	
96 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	471094	150.000	156	
97 2,methyl-naphthalene	142	11.226	11.226	(1.231)	734781	150.000	169	
98 1-Methylnaphthalene	142	11.346	11.349	(1.244)	610861	150.000	158	

QC Flag Legend

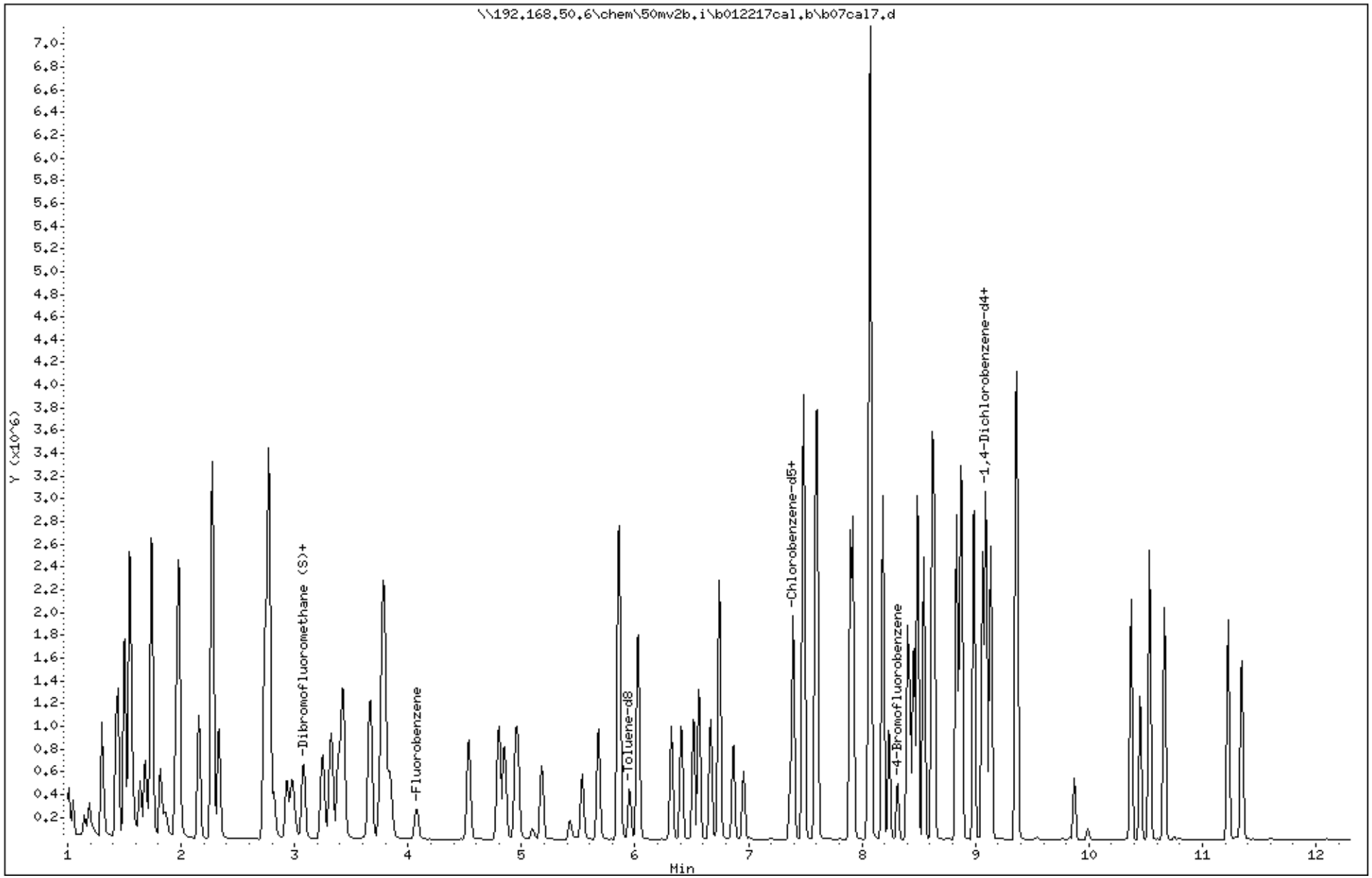
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

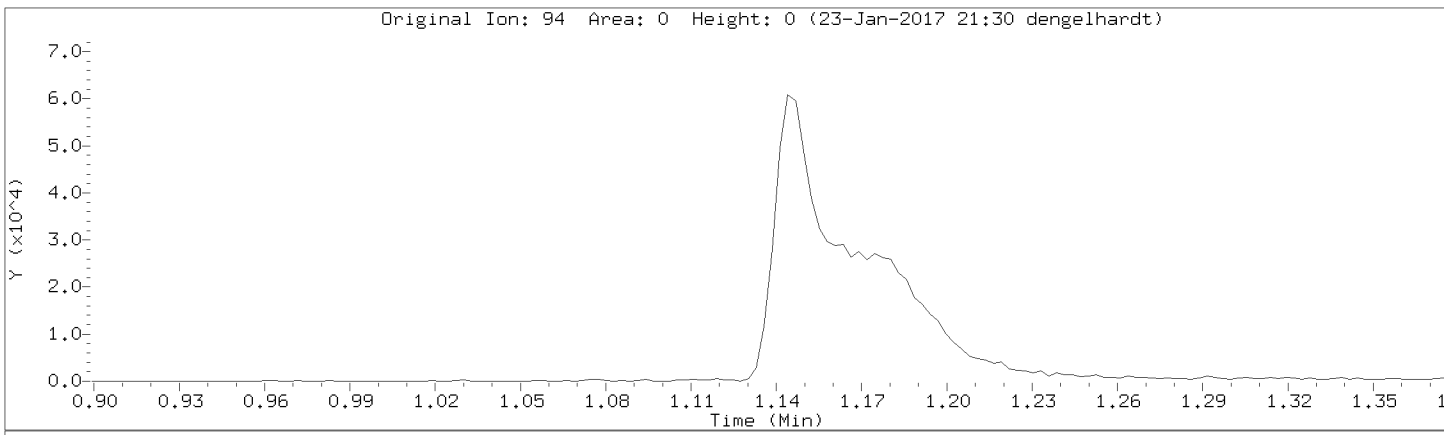
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b07cal7.d
Date : 23-JAN-2017 01:28
Client ID: 8260-CAL7
Sample Info: 8260-CAL7,140432:0
Purge Volume: 5.0
Column phase: DB-624

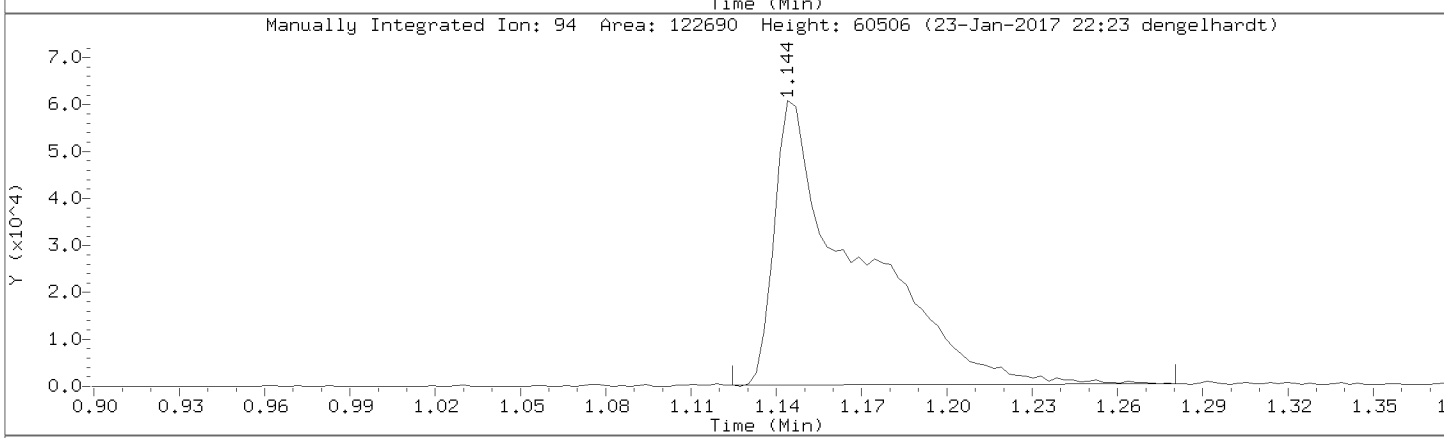
Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18

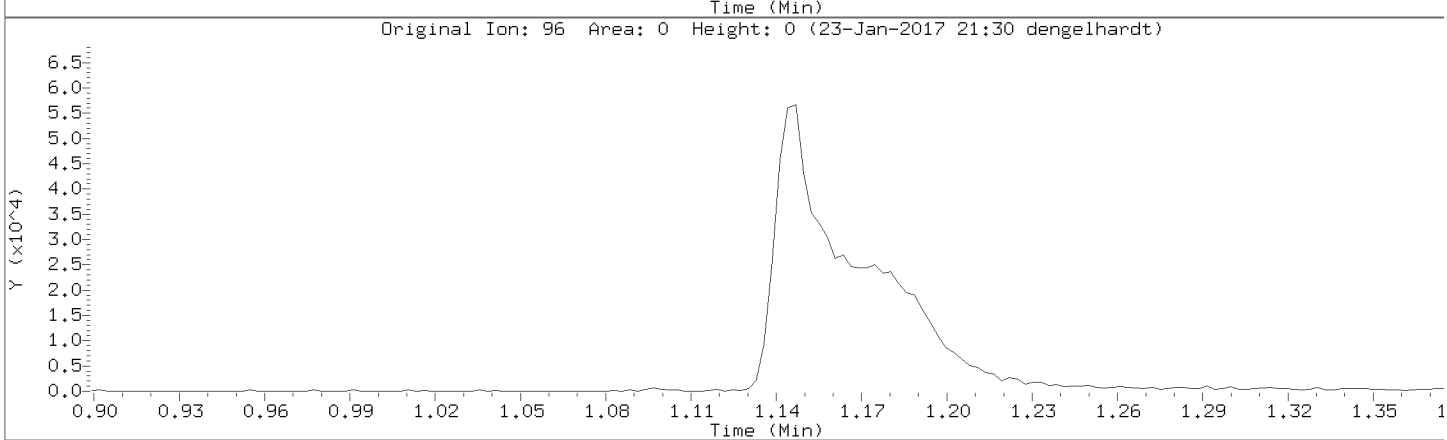


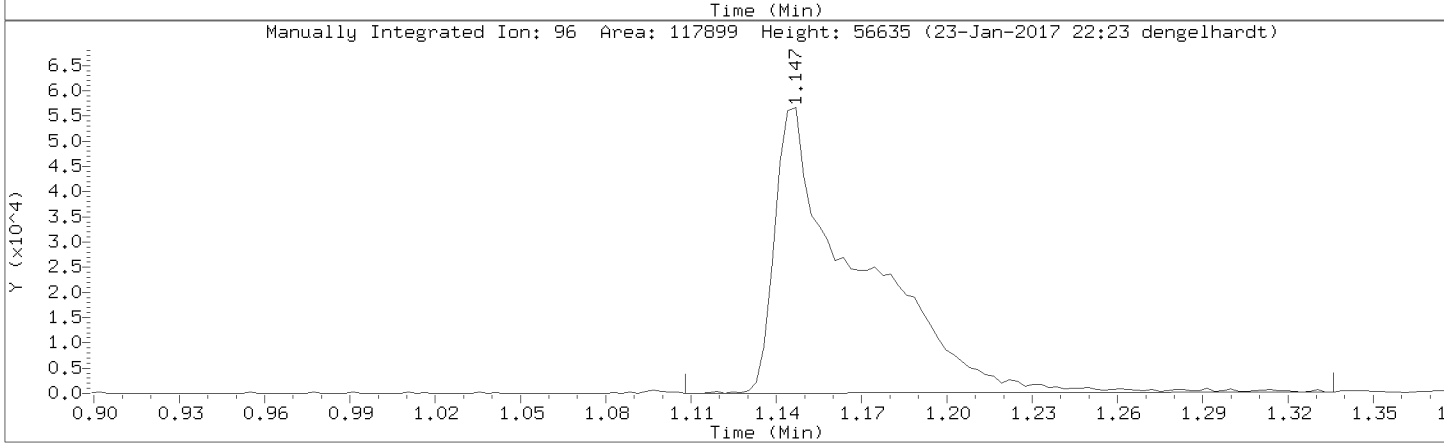
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b07cal7.d
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Bromomethane Review Code: NI
CAS Number: 74-83-9









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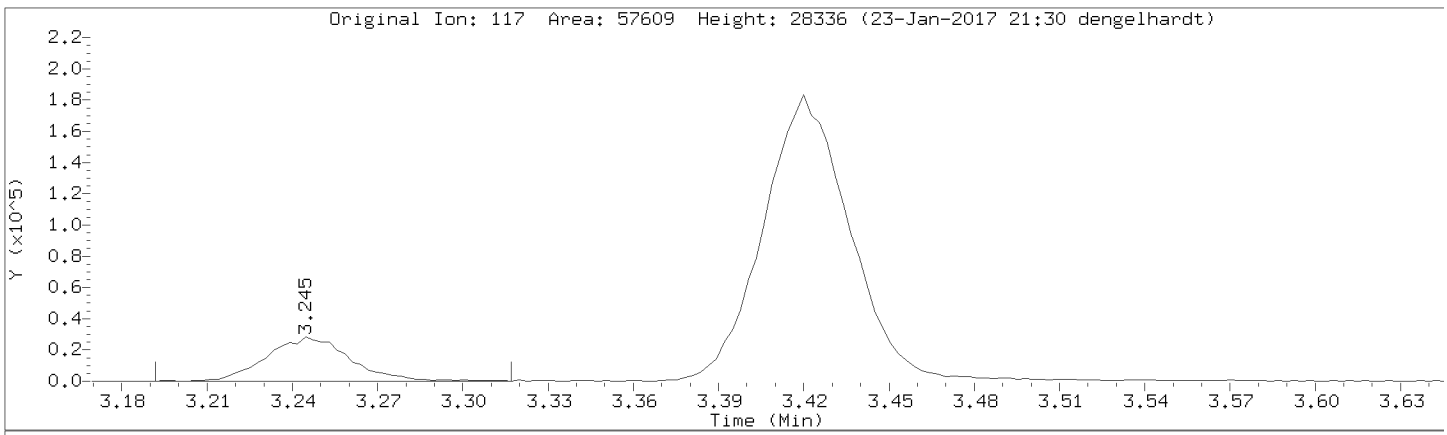
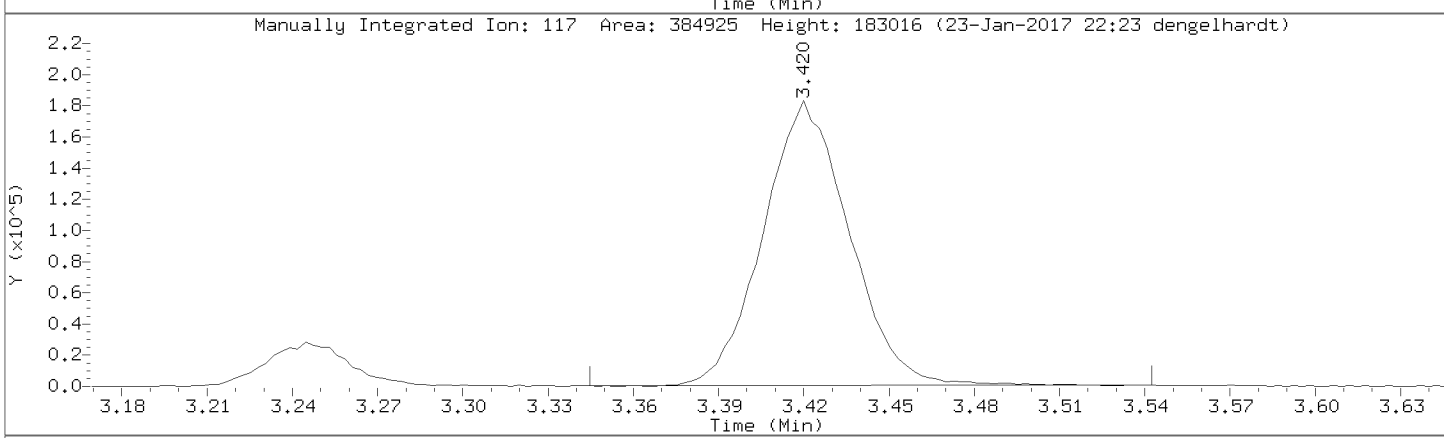
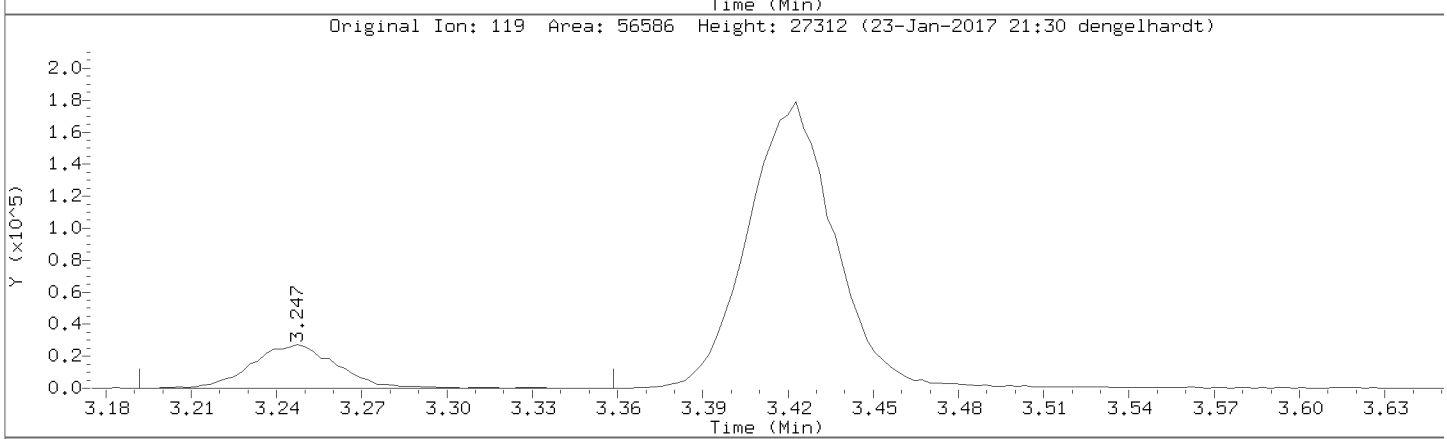
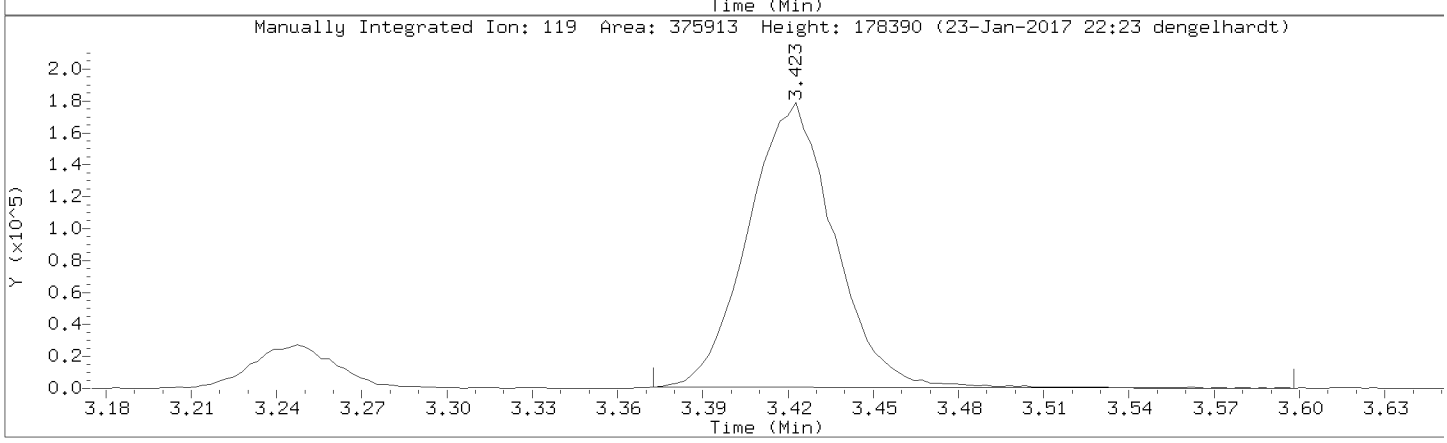
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Carbon Tetrachloride Review Code: WP
CAS Number: 56-23-5









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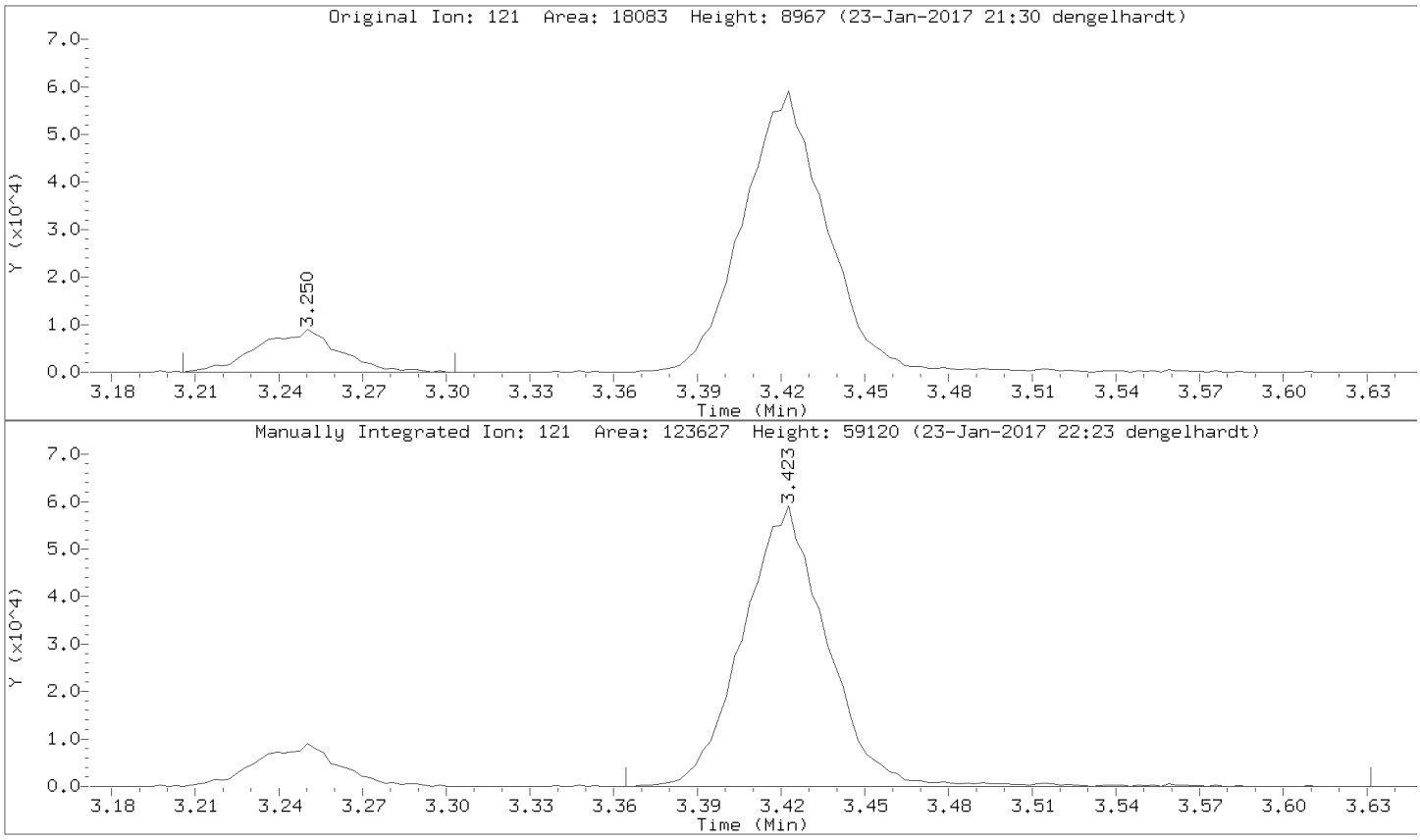
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



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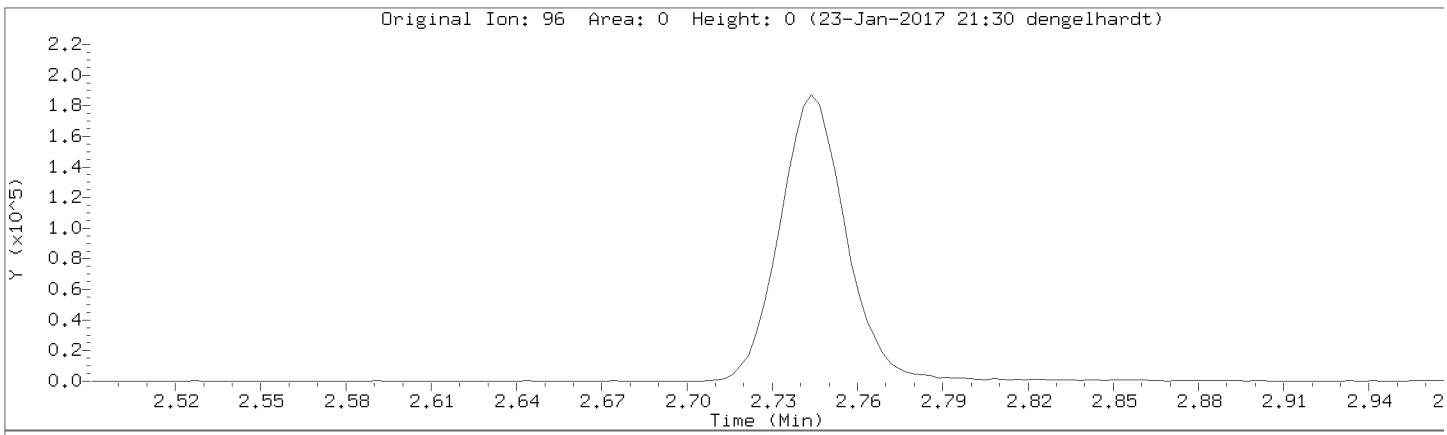
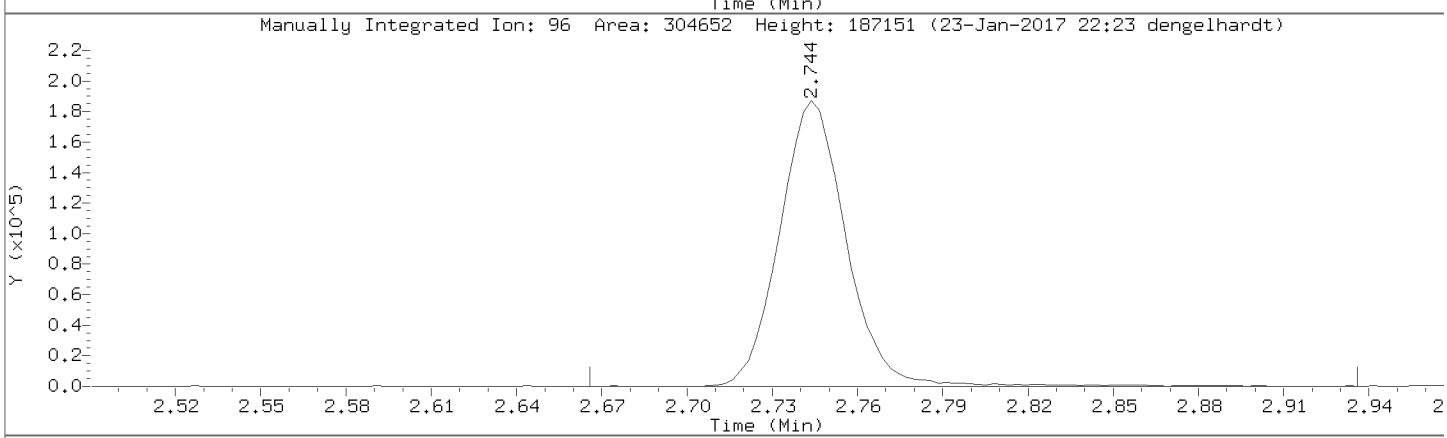
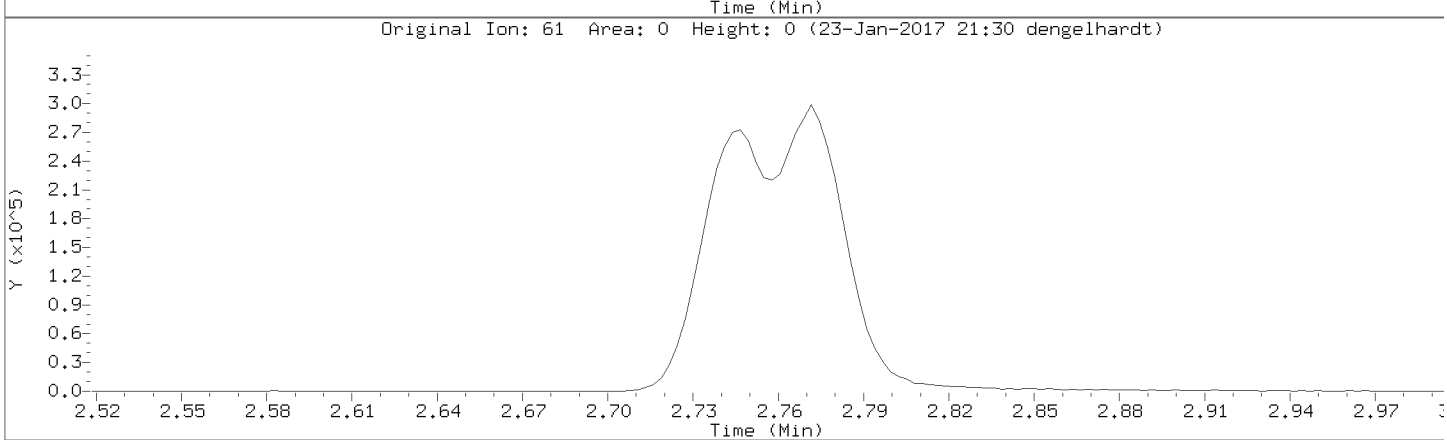
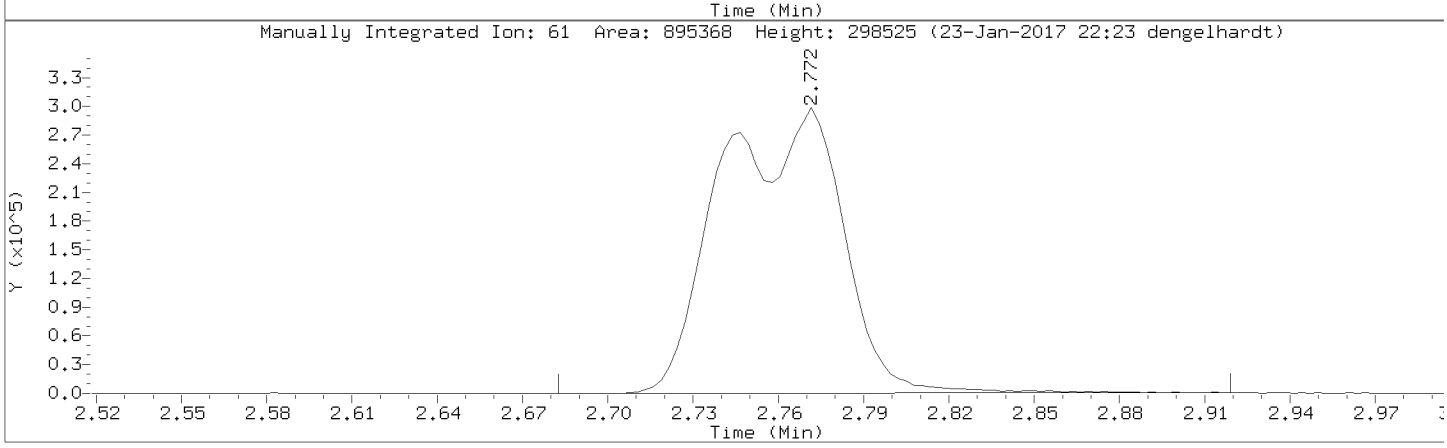
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: 1,2-Dichloroethene (cis) Review Code: NI
CAS Number: 156-59-2









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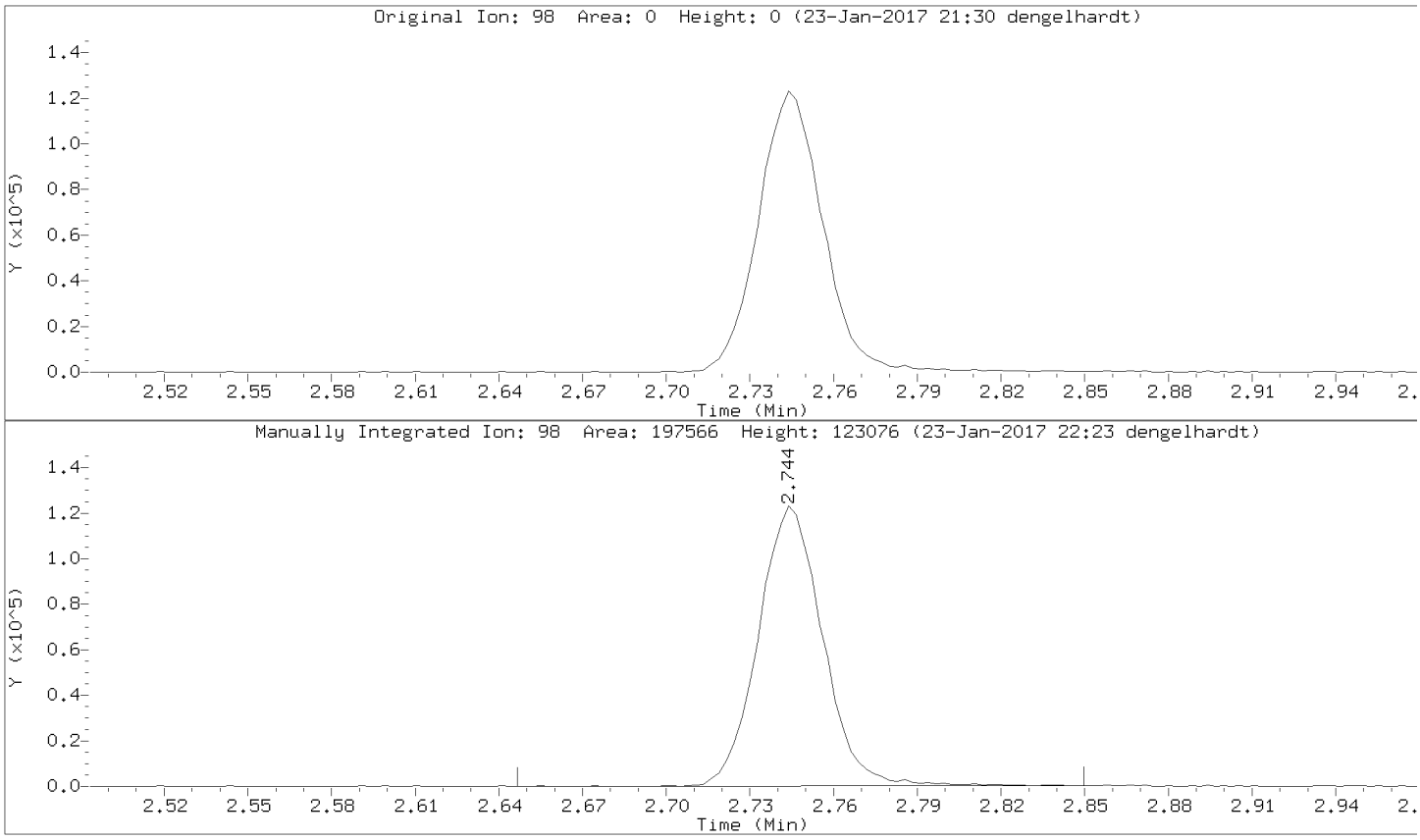
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



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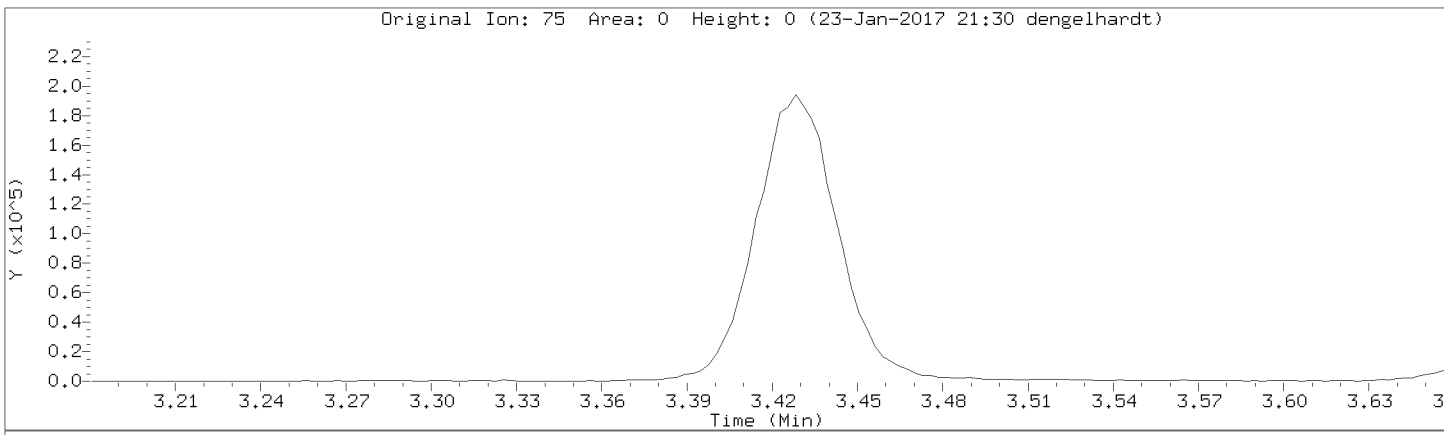
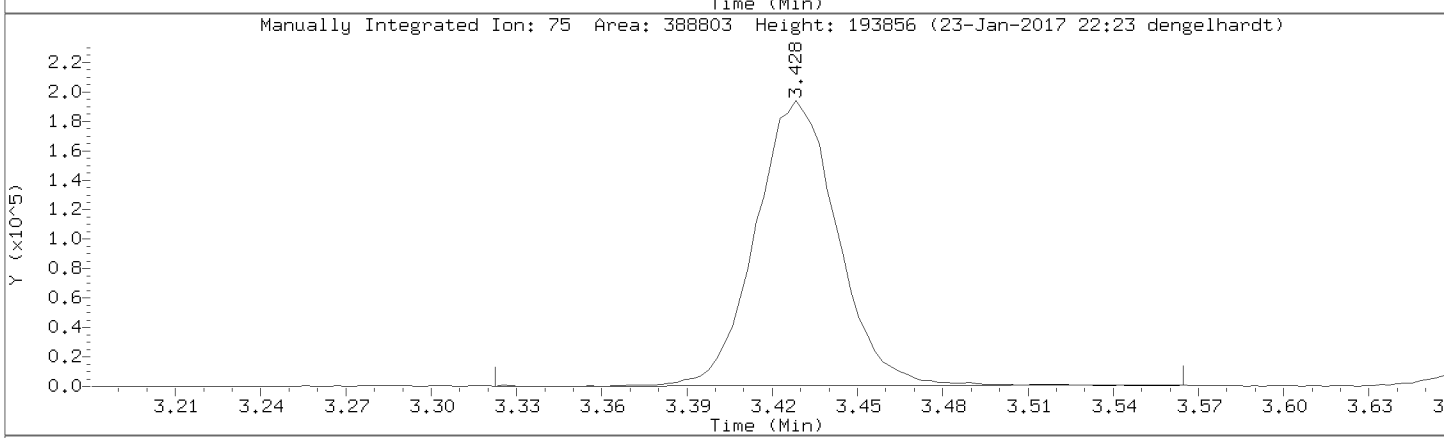
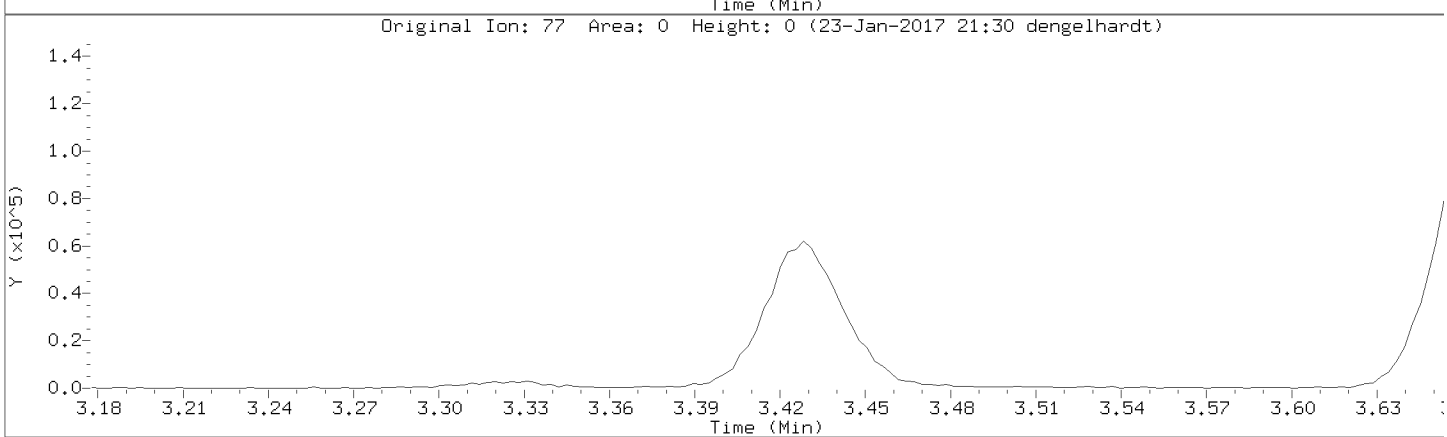
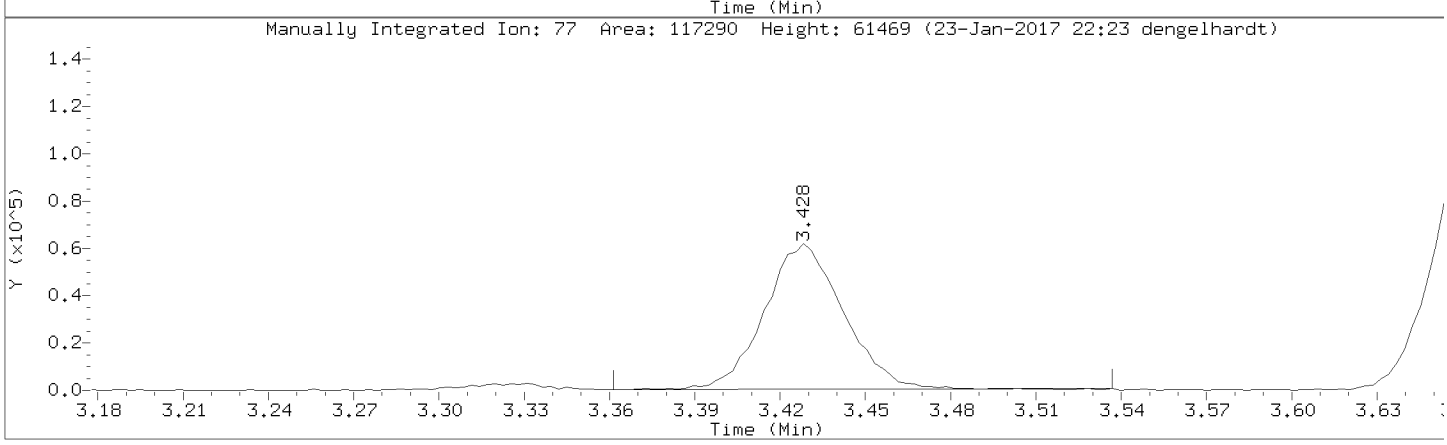
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: 1,1-Dichloropropene Review Code: NI
CAS Number: 563-58-6









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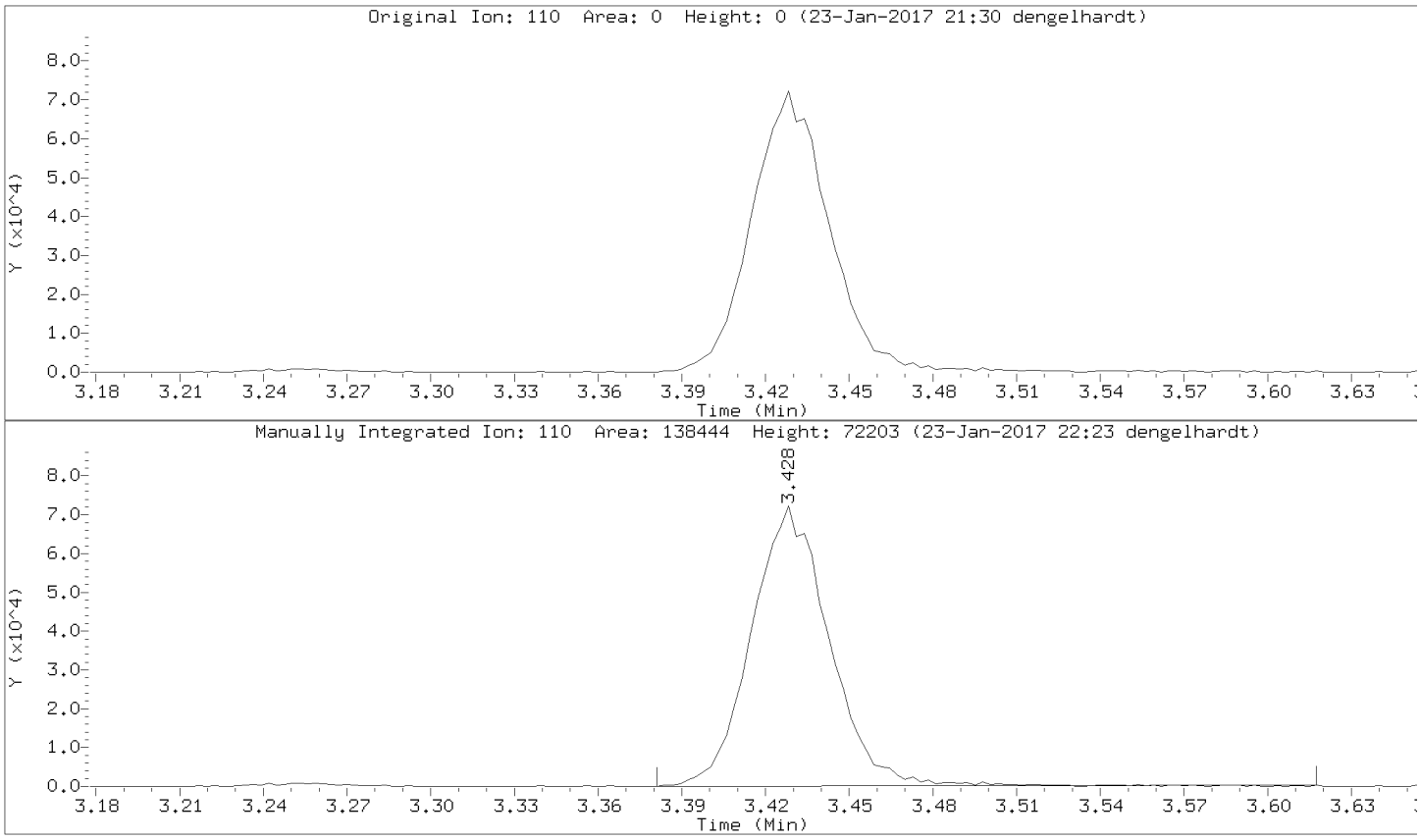
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



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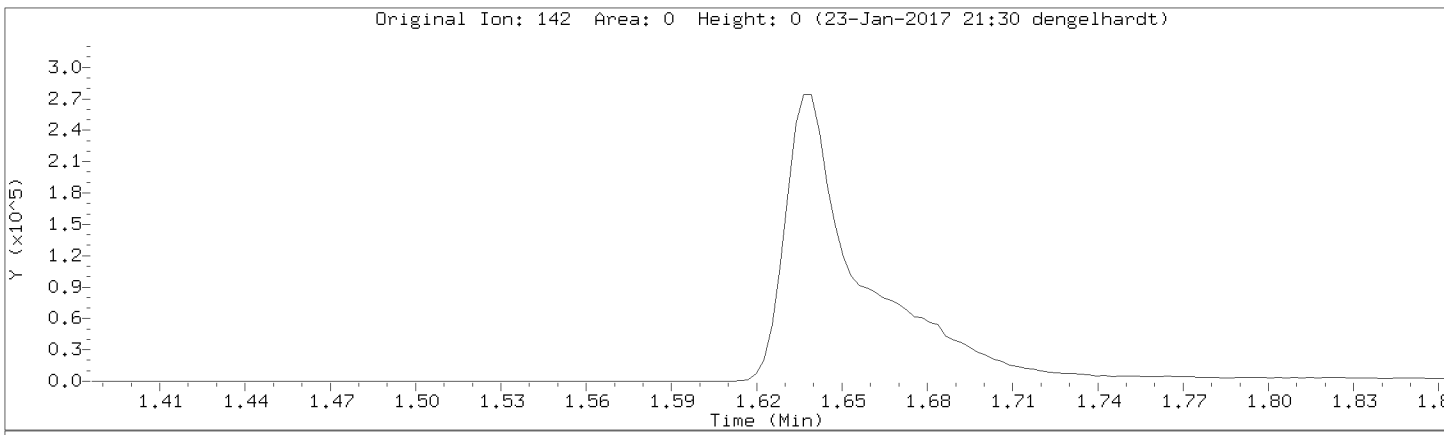
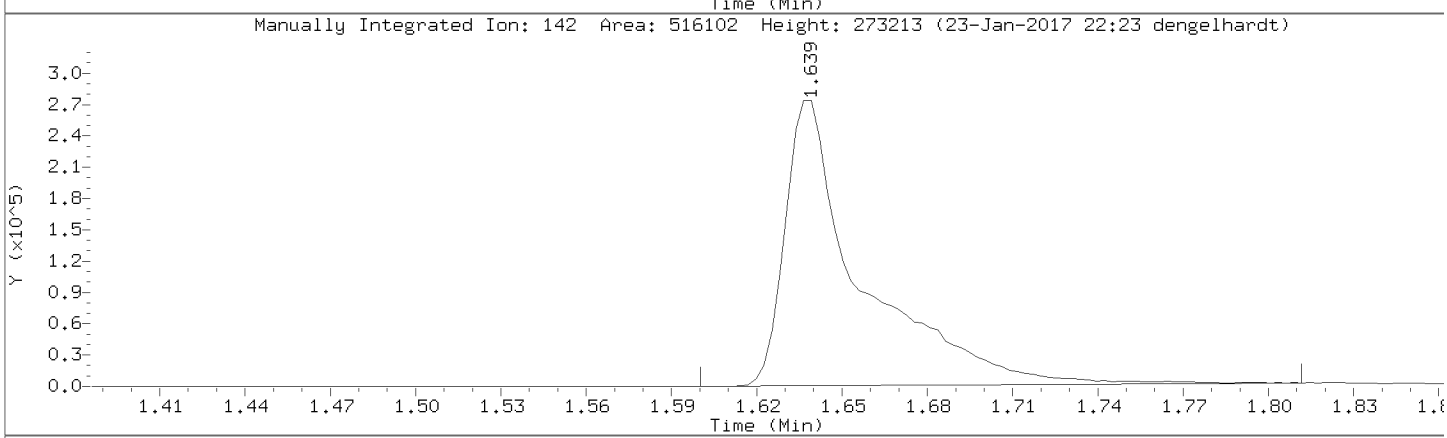
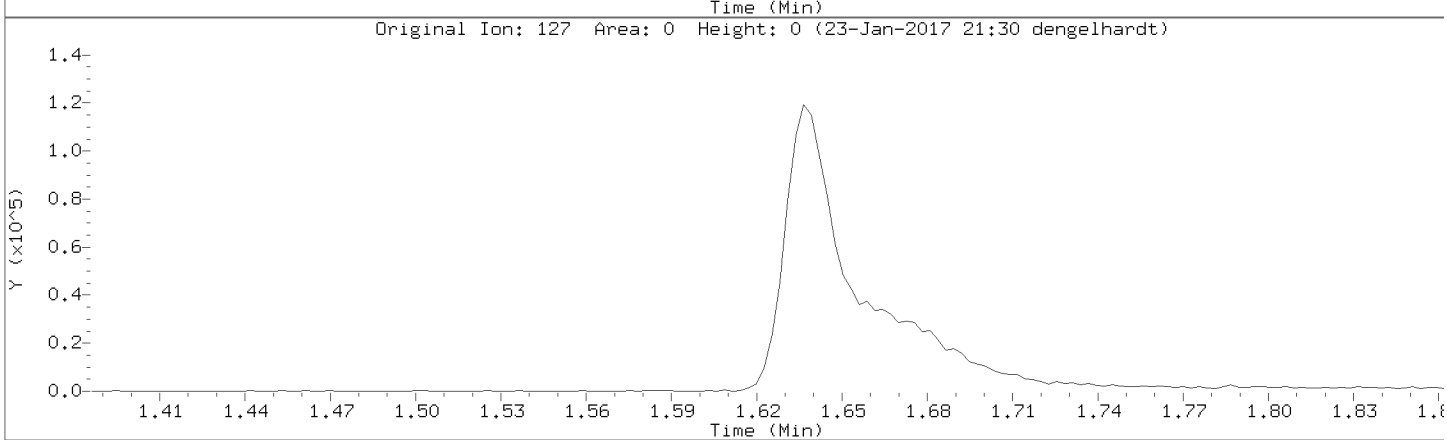
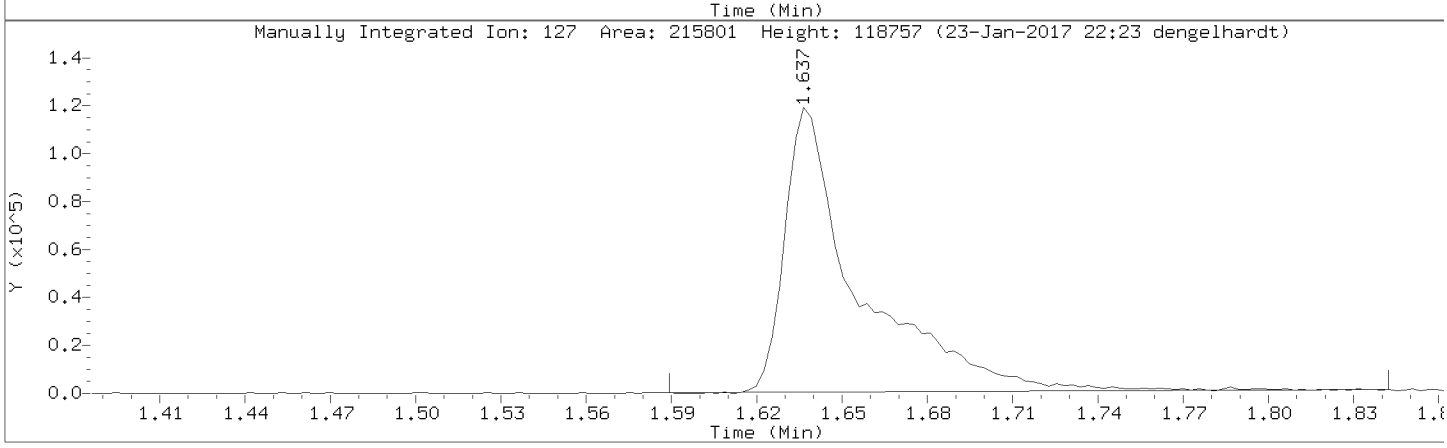
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Iodomethane Review Code: NI
CAS Number:



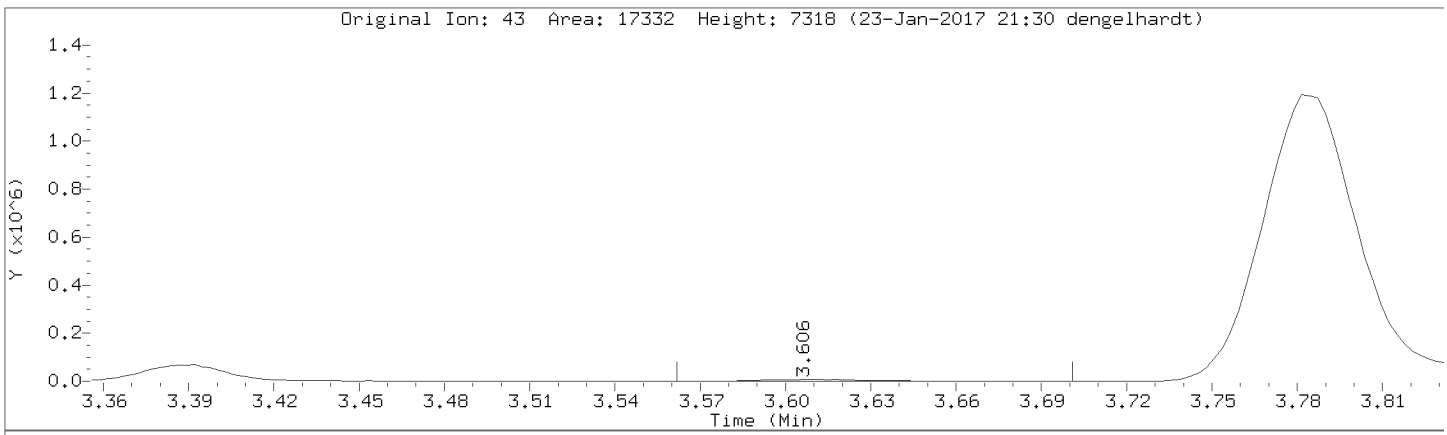


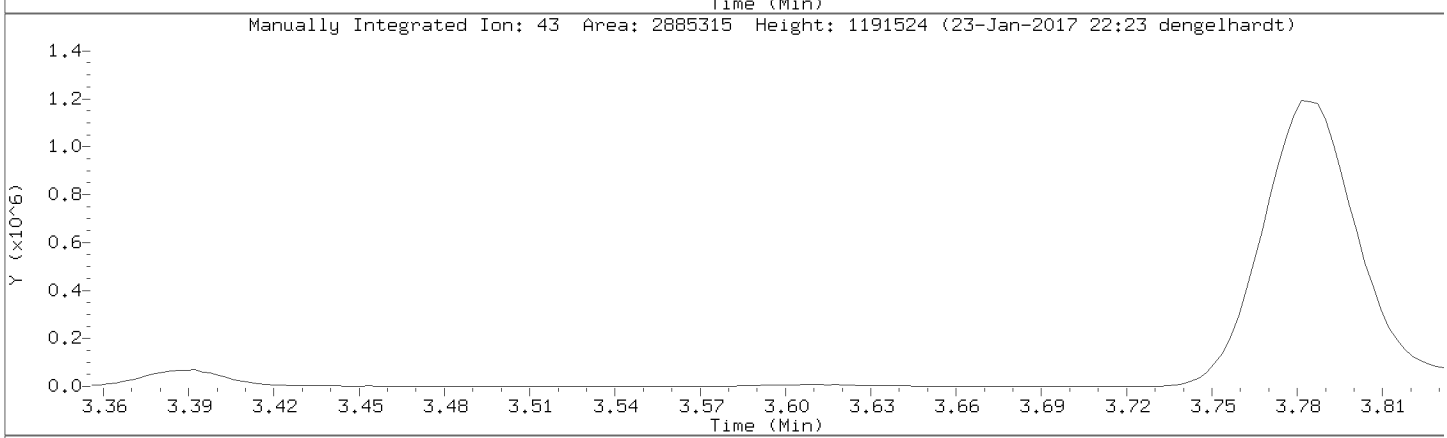


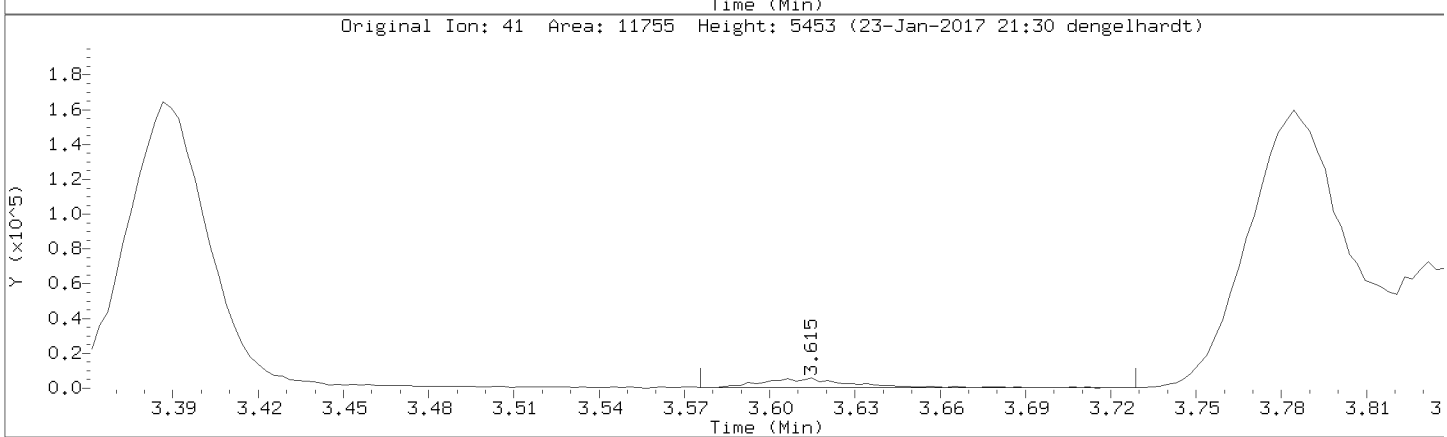


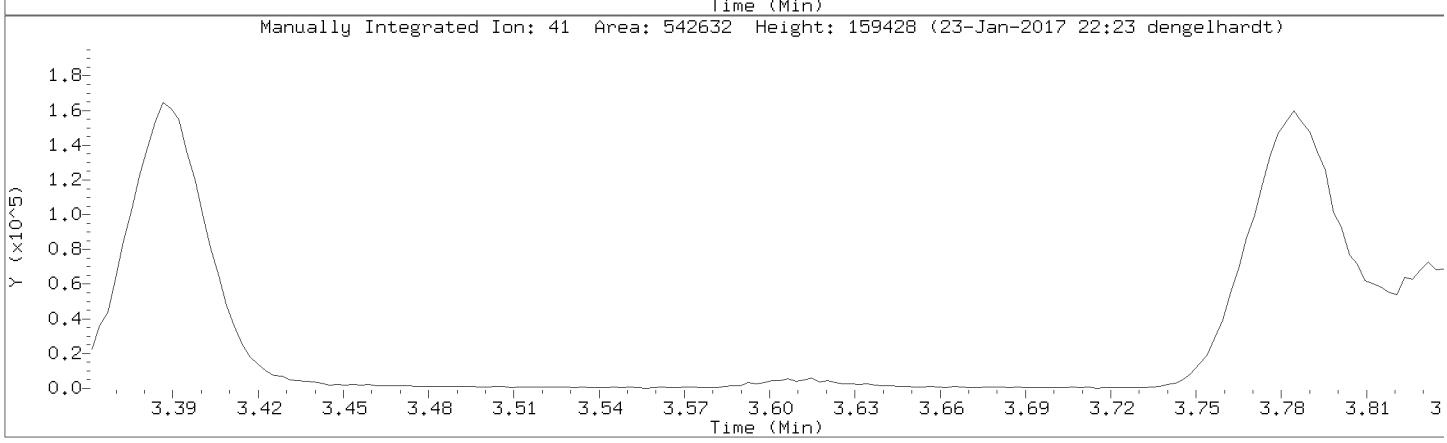
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b07cal7.d
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1









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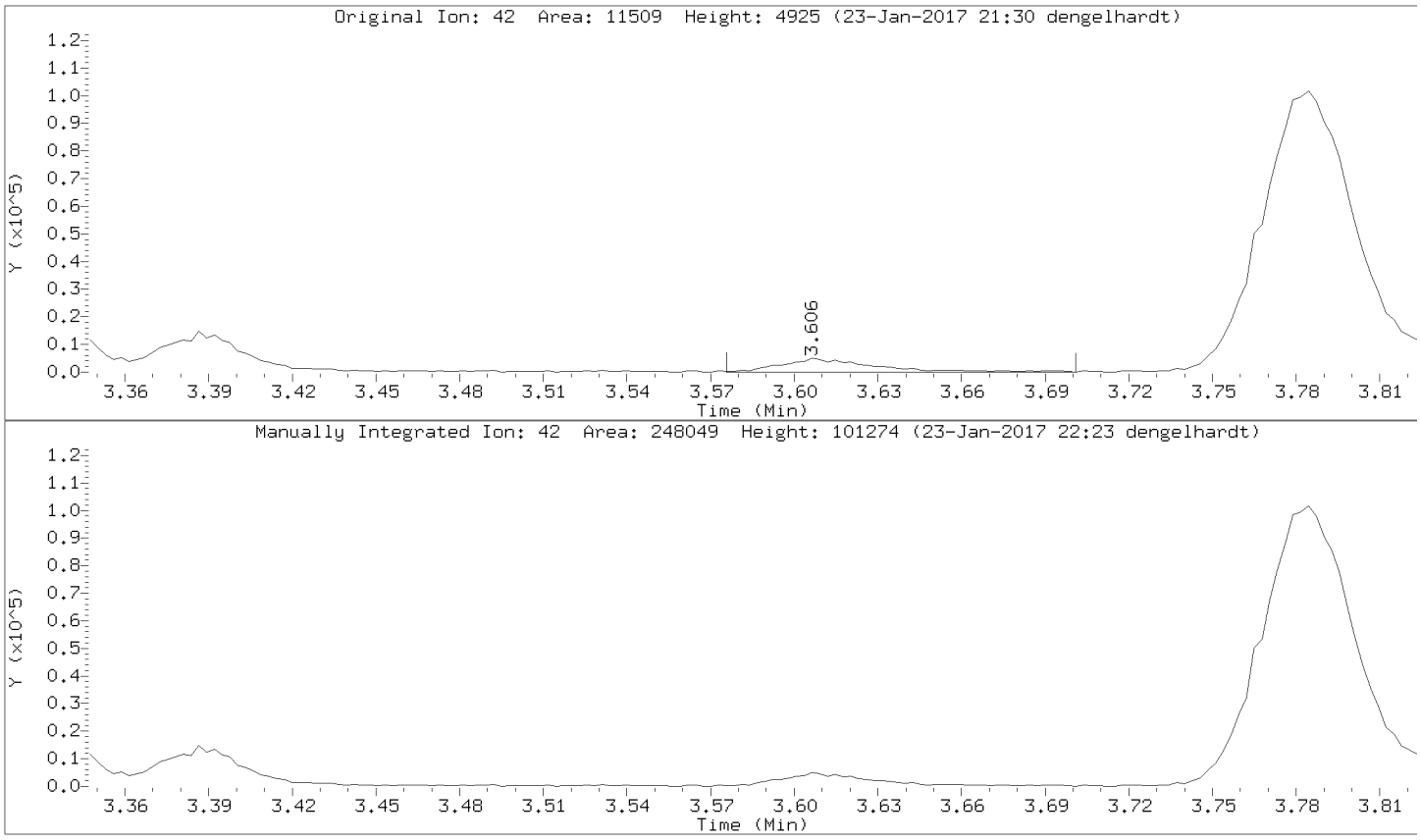
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



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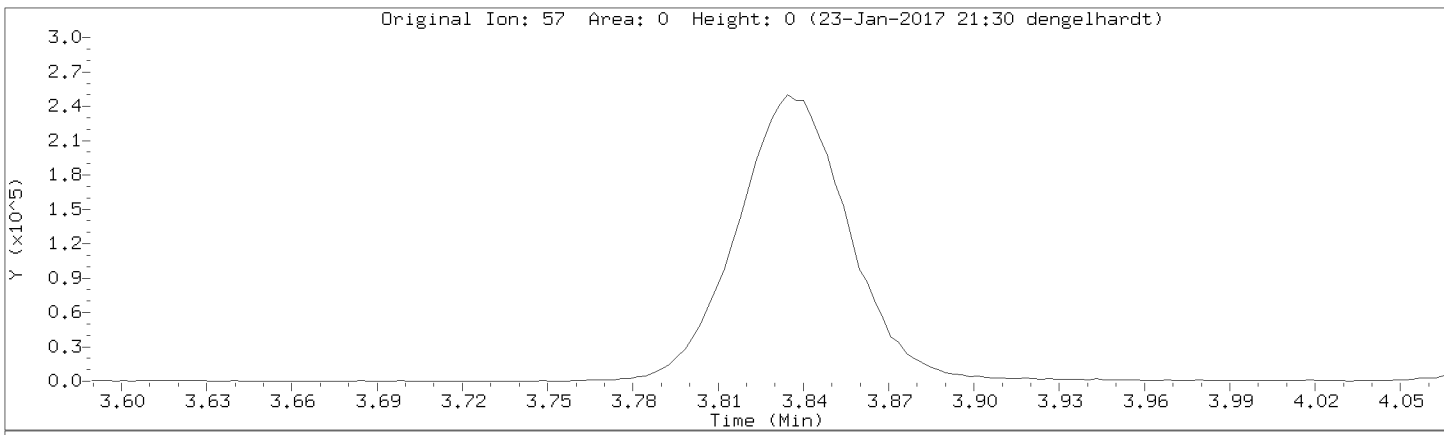
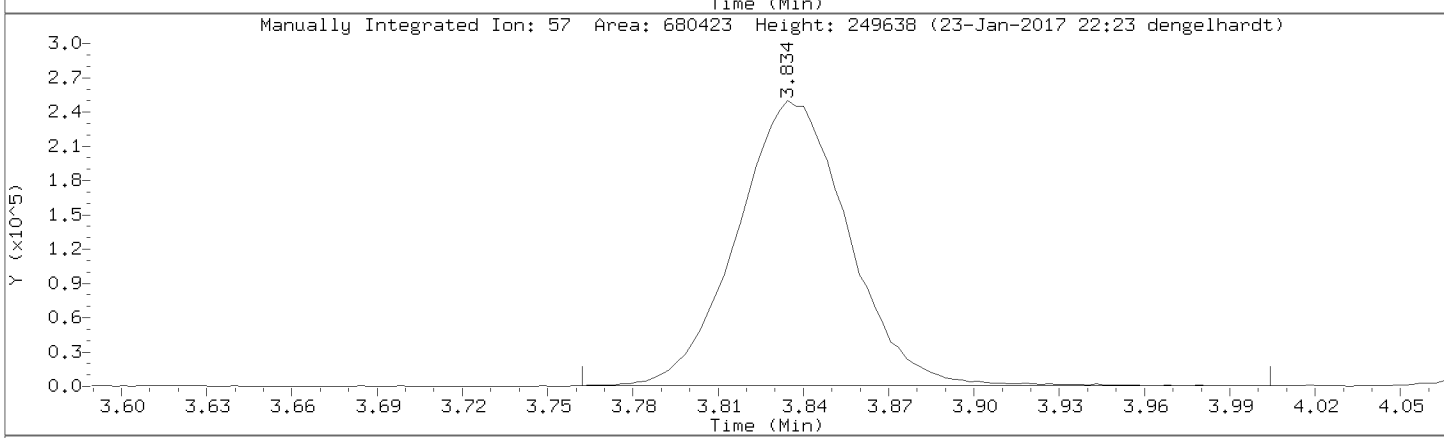
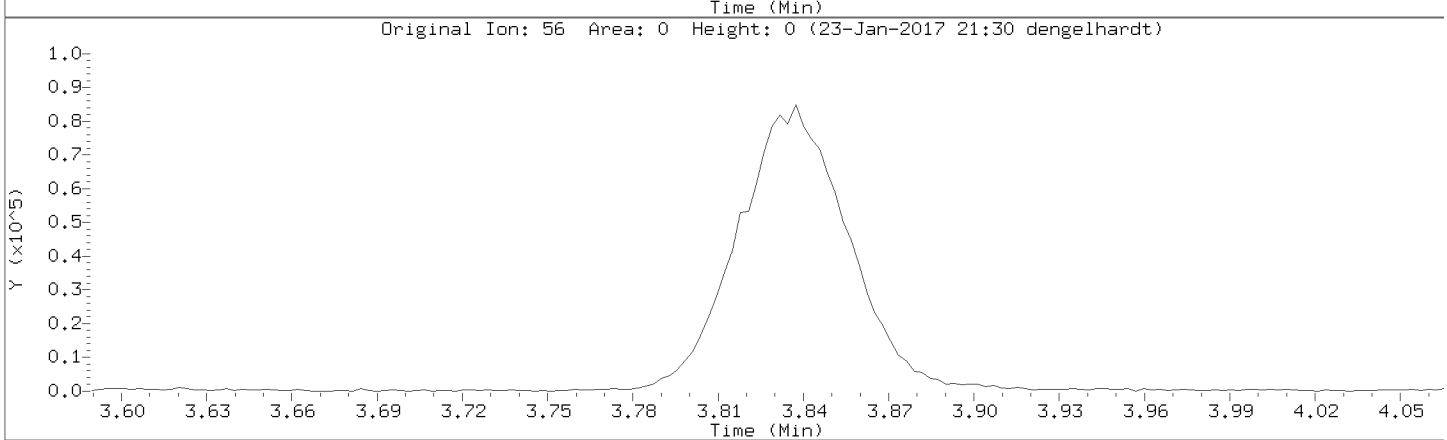
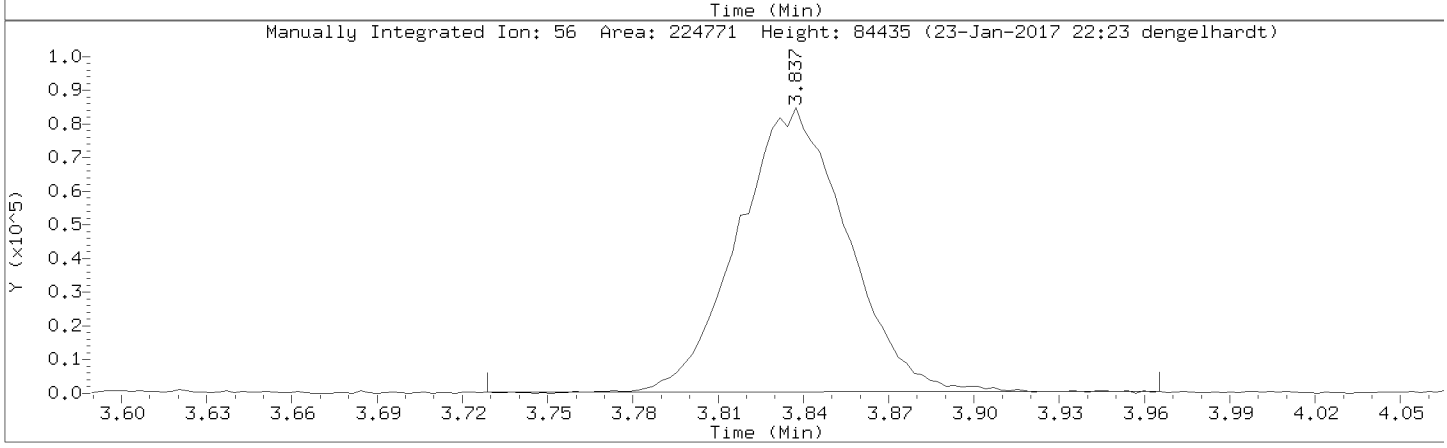
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: 2,2,4-Trimethylpentane Review Code: NI
CAS Number: 540-84-1









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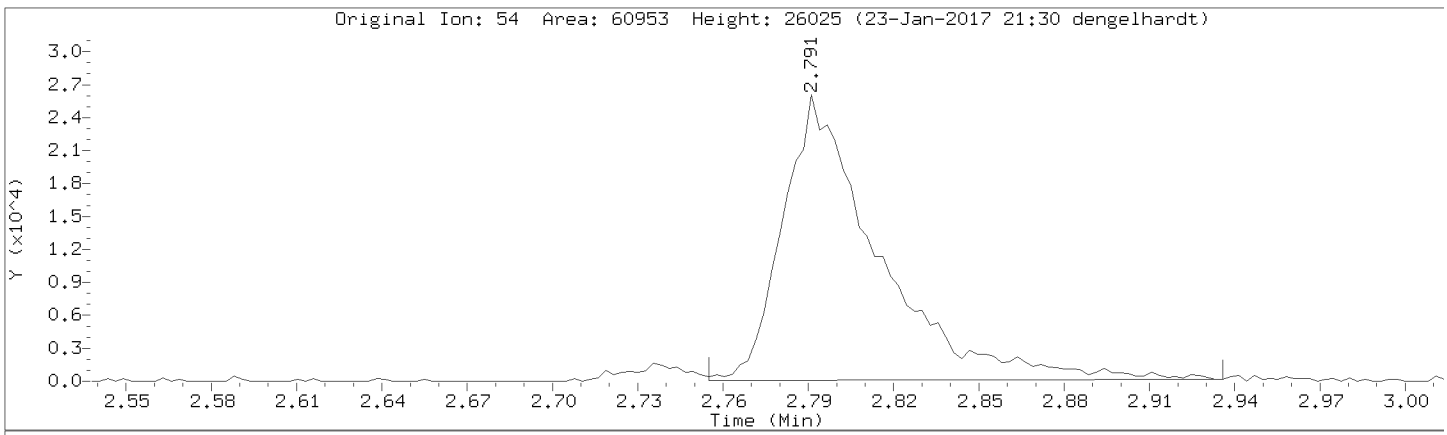
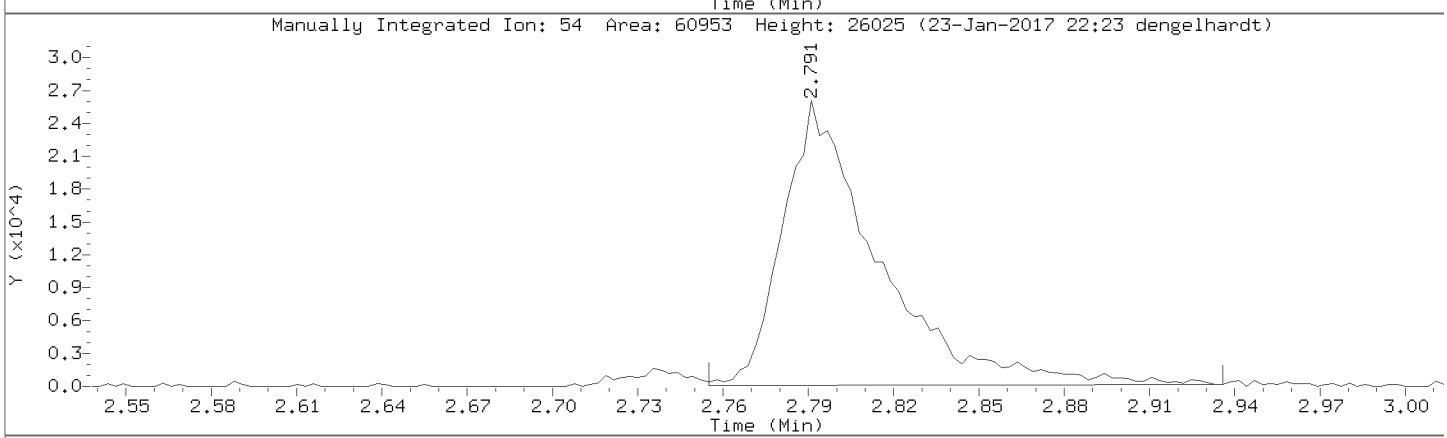
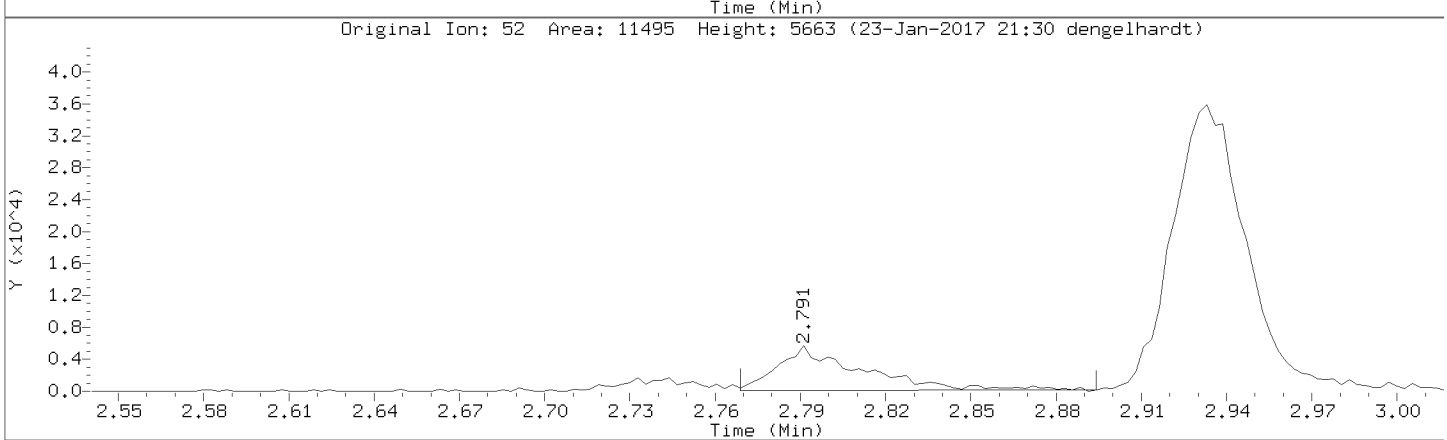
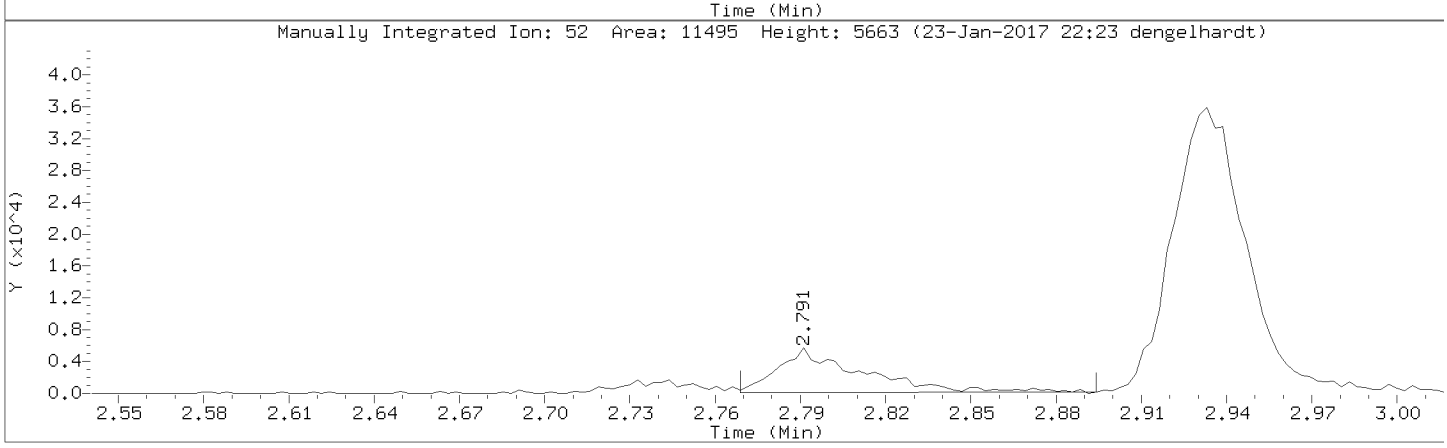
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

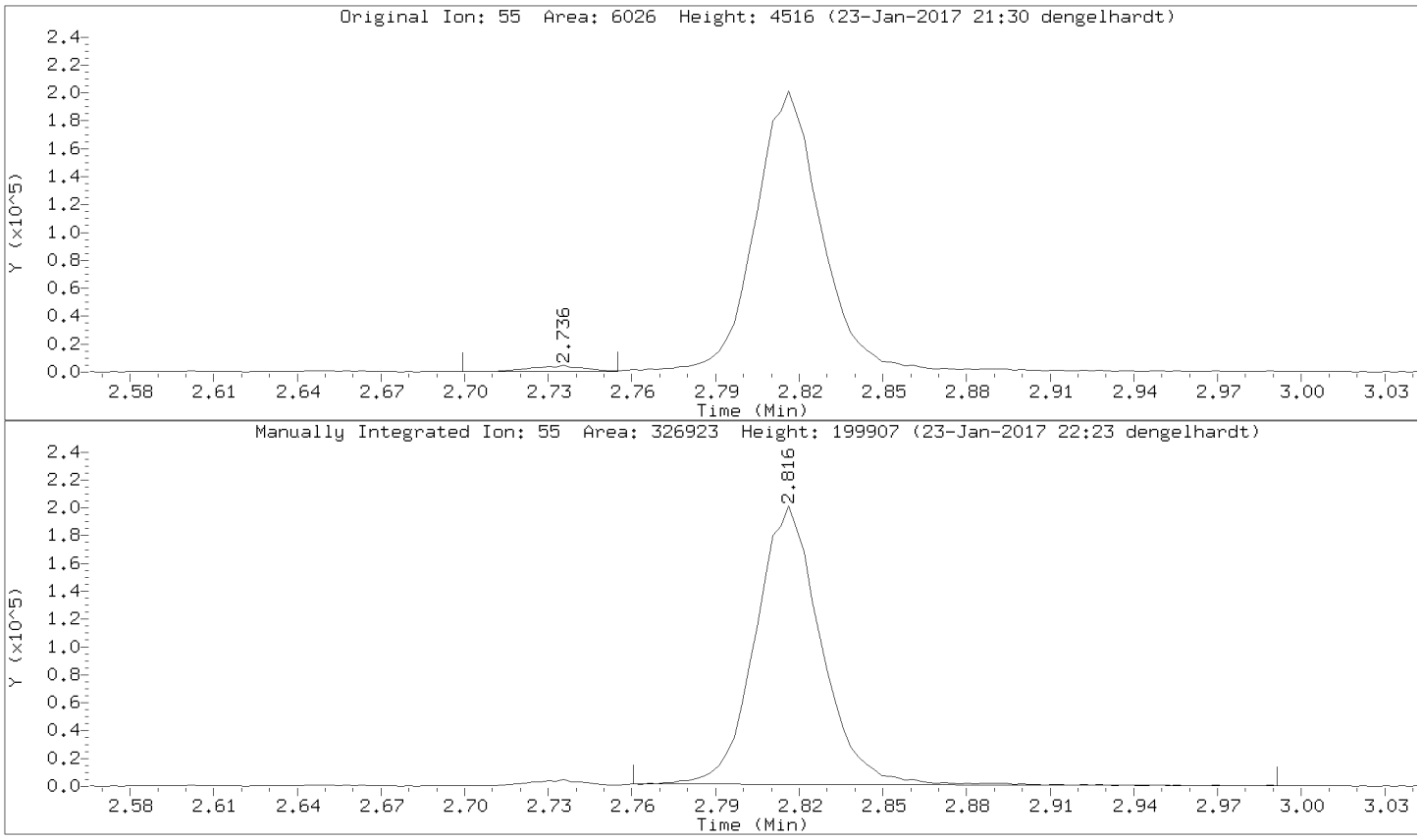








Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b07cal7.d
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



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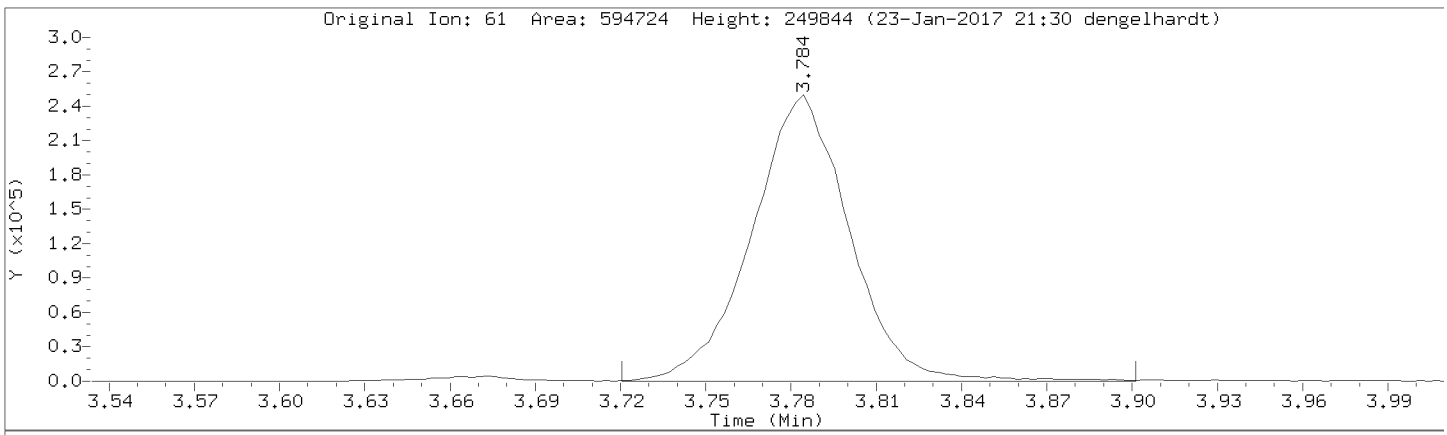
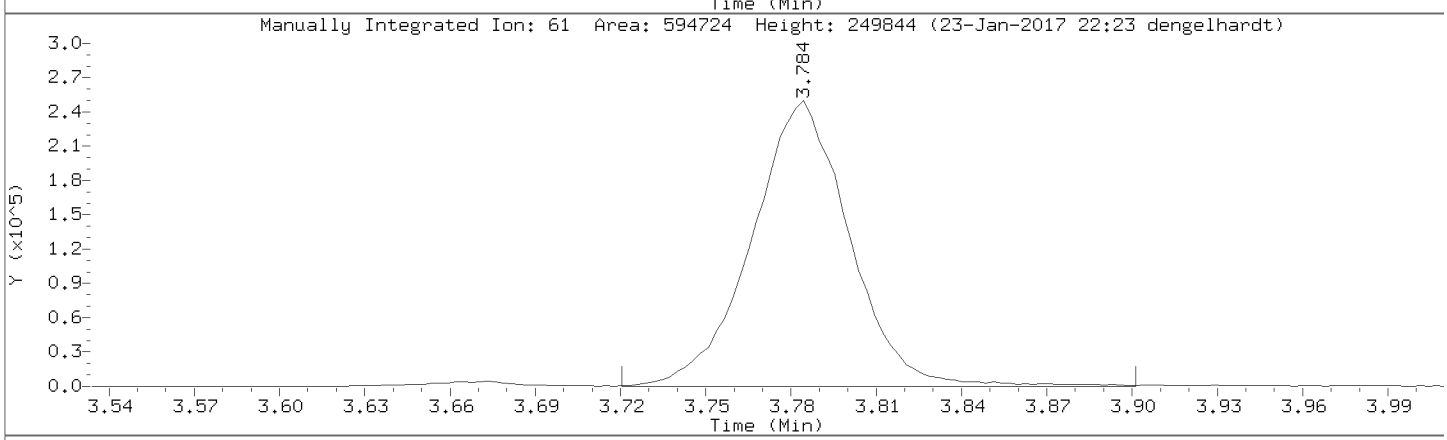
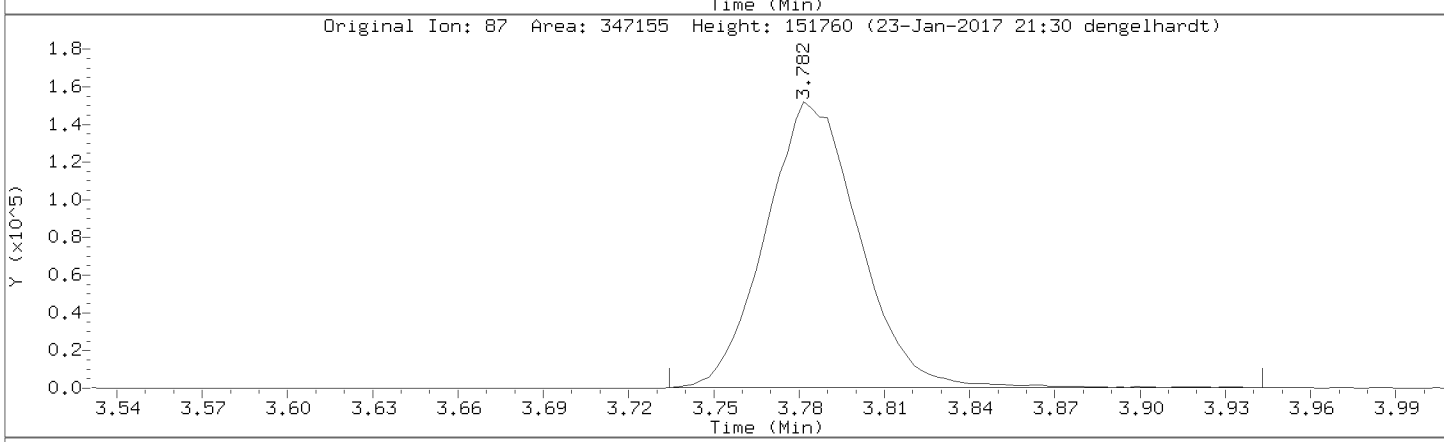
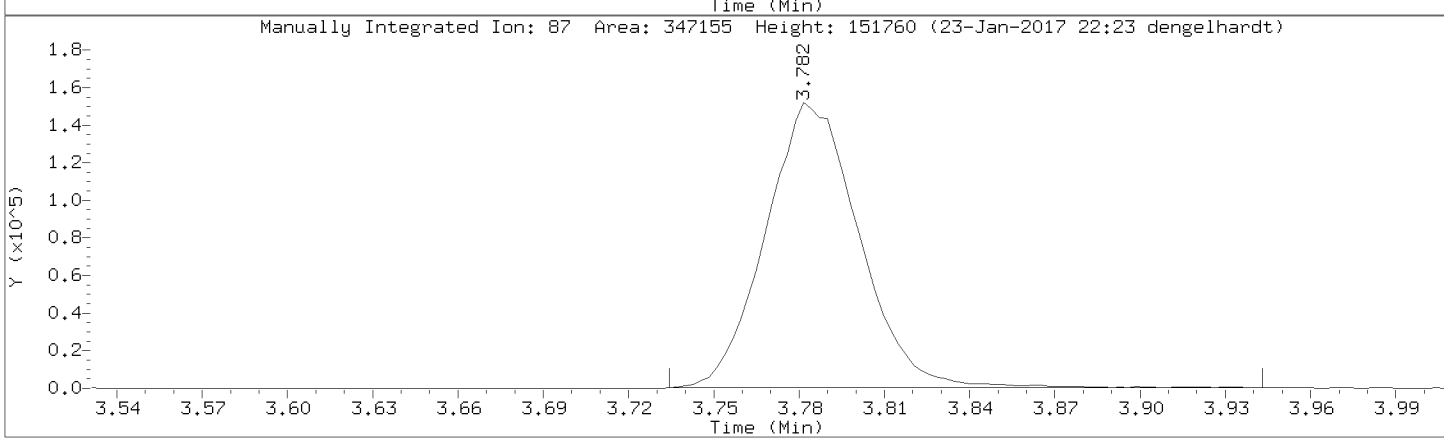
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7

Compound: Isopropyl acetate Review Code: WP
CAS Number: 108-21-4









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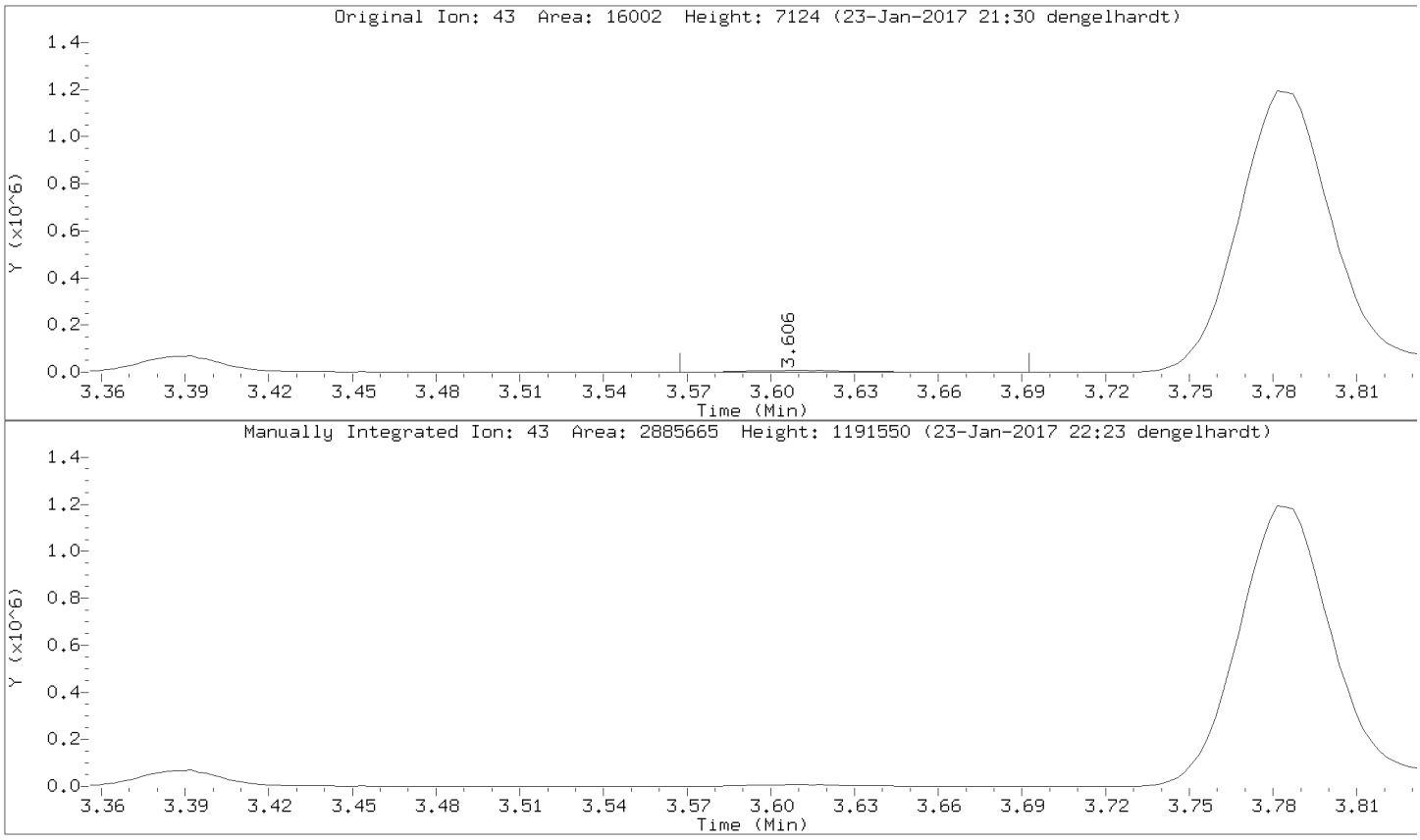
Injection Date: 23-JAN-2017 01:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL7



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b08cal8.d
Lab Smp Id: 8260-CAL8 Client Smp ID: 8260-CAL8
Inj Date : 23-JAN-2017 02:01
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-cal8,140433:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 19-JAN-2017 02:14 Cal File: b08cal8.d
Als bottle: 61 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.217)	496460	300.000	297	
2 Chloromethane	50	0.990	0.990	(0.243)	704310	300.000	265	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	714435	300.000	279	
4 Bromomethane	94	1.138	1.149	(0.279)	199398	300.000	160(M)	NI
5 Chloroethane	64	1.185	1.193	(0.291)	400544	300.000	256	
6 Trichlorofluoromethane	101	1.299	1.305	(0.319)	844175	300.000	287(M)	NI
7 Diethyl ether	74	1.427	1.427	(0.350)	408909	300.000	251	
8 1,2-dichlorotrifluoroethane	67	1.441	1.444	(0.354)	747321	300.000	223	
9 Acrolein	56	1.500	1.500	(0.368)	2119237	6000.00	5850	
10 1,1,2trichlorotrifluoroethane	101	1.541	1.547	(0.378)	592906	300.000	268(M)	NI
11 1,1-Dichloroethene	96	1.547	1.550	(0.380)	521528	300.000	232(M)	NI
12 Acetone	43	1.569	1.564	(0.385)	1148805	1500.00	1030	
13 Iodomethane	142	1.636	1.636	(0.402)	1096889	600.000	1090	
14 Carbon Disulfide	76	1.678	1.683	(0.412)	1316673	300.000	215	
15 Methyl Acetate	43	1.728	1.728	(0.424)	737130	300.000	212	
16 Acetonitrile	39	1.739	1.742	(0.427)	1094873	300.000	270	
17 allyl chloride	41	1.742	1.742	(0.428)	1595045	600.000	542(M)	NI
18 Methylene Chloride	84	1.817	1.817	(0.446)	555216	300.000	186(M)	NI
19 tert-Butyl Alcohol	59	1.870	1.861	(0.459)	143779	600.000	434	
20 Acrylonitrile	53	1.953	1.950	(0.480)	1178156	1200.00	897	
21 Methyl-tert-butyl ether	73	1.975	1.973	(0.485)	1906510	300.000	277	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.486)	574806	300.000	227	
23 n-Hexane	57	2.153	2.156	(0.529)	784751	300.000	269	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.273	2.270	(0.558)	6060524	1200.00	1440	
	25 1,1-Dichloroethane	63	2.279	2.279	(0.559)	1032291	300.000	273(M)	WP
	26 Chloroprene	53	2.331	2.331	(0.572)	849794	300.000	275	
	147 Ethyl acetate	88	2.777	2.774	(0.682)	295293	2400.00	2290(M)	NI
	27 2-Butanone	72	2.735	2.732	(0.671)	455571	1500.00	1510(Q)	
	28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.674)	629428	300.000	251(M)	NI
	29 2,2-Dichloropropane	77	2.746	2.746	(0.674)	667432	300.000	273(M)	NI
	30 Propionitrile	54	2.802	2.788	(0.688)	117870	300.000	227(M)	WP
	31 Methacrylonitrile	41	2.935	2.932	(0.721)	449067	300.000	214(M)	NI
	32 Bromochloromethane	49	2.977	2.971	(0.731)	429168	300.000	224(M)	NI
	33 Tetrahydrofuran	42	2.988	2.985	(0.734)	218922	300.000	136	
	34 Chloroform	83	3.077	3.077	(0.755)	984121	300.000	247(M)	NI
$	35 Dibromofluoromethane (S)	113	3.250	3.252	(0.798)	66781	50.0000	46.4	
	36 1,1,1-Trichloroethane	97	3.247	3.247	(0.797)	896100	300.000	264	
	37 cyclohexane	56	3.319	3.325	(0.815)	968785	300.000	248	
	146 n-butyl chloride	56	3.386	3.325	(0.831)	1230656	300.000	266	
	38 Carbon Tetrachloride	117	3.417	3.419	(0.839)	816084	300.000	282(M)	NI
	39 1,1-Dichloropropene	75	3.428	3.430	(0.842)	822316	300.000	291	
	40 Benzene	78	3.667	3.667	(0.900)	2296610	300.000	279	
	41 1,2-Dichloroethane	62	3.756	3.756	(0.922)	816170	300.000	268(M)	WP
	42 2,2,4-Trimethylpentane	57	3.831	3.839	(0.941)	1432898	300.000	260(M)	NI
	43 Isobutyl alcohol	43	3.787	3.606	(0.930)	5849503	300.000	294(M)	WP
	148 Isopropyl acetate	61	3.787	3.784	(0.930)	1180683	1200.00	1180(M)	WP
*	44 Fluorobenzene	96	4.073	4.070	(1.000)	262042	50.0000		
	45 Trichloroethene	95	4.532	4.532	(1.113)	575113	300.000	285	
	46 Methylcyclohexane	55	4.799	4.799	(1.178)	675518	300.000	219	
	47 1,2-Dichloropropane	63	4.849	4.849	(1.191)	597828	300.000	274	
	48 Dibromomethane	93	4.950	4.947	(1.215)	382513	300.000	246	
	49 Methyl methacrylate	69	4.969	4.966	(1.220)	496980	300.000	272	
	50 1,4-Dioxane	88	4.950	4.952	(1.215)	176690	6000.00	5800(M)	WP
	51 Bromodichloromethane	83	5.178	5.175	(1.271)	774064	300.000	262	
	52 2-Chloroethyl vinyl ether	63	5.534	5.537	(0.751)	412003	600.000	507	
	53 cis-1,3-Dichloropropene	75	5.679	5.678	(0.771)	999138	300.000	333	
	54 4-Methyl-2-Pentanone	43	5.859	5.854	(0.795)	3241705	1500.00	1500(M)	NI
$	55 Toluene-d8	98	5.951	5.951	(0.808)	247810	50.0000	50.5	
	56 Toluene	91	6.026	6.023	(0.818)	2407170	300.000	281	
	57 trans-1,3-Dichloropropene	75	6.321	6.318	(0.858)	914832	300.000	343	
	58 Ethyl Methacrylate	69	6.407	6.407	(0.870)	841167	300.000	283	
	59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	471200	300.000	302	
	60 Tetrachloroethene	166	6.563	6.566	(0.891)	697118	300.000	300	
	61 1,3-Dichloropropane	76	6.663	6.666	(0.904)	956168	300.000	310	
	62 2-Hexanone	43	6.744	6.741	(0.915)	2187303	1500.00	1450	
	63 Dibromochloromethane	129	6.867	6.864	(0.932)	662523	300.000	309	
	64 1,2-Dibromoethane	107	6.956	6.956	(0.944)	582969	300.000	307	
*	65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	200358	50.0000		
	66 Chlorobenzene	112	7.392	7.392	(1.003)	1623410	300.000	290	
	67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	631852	300.000	312	
	68 Ethylbenzene	106	7.487	7.487	(1.016)	878275	300.000	287	
	69 m&p-Xylene	106	7.598	7.598	(1.031)	2166379	600.000	582	
	70 o-Xylene	106	7.899	7.899	(1.072)	1063351	300.000	294	
	71 Styrene	104	7.918	7.918	(1.075)	1871658	300.000	307	
	72 Bromoform	173	8.055	8.057	(0.883)	550977	300.000	301	
	73 Isopropylbenzene	105	8.185	8.182	(1.111)	2723268	300.000	300	
$	74 4-Bromofluorobenzene	95	8.316	8.313	(1.129)	96282	50.0000	50.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.074	8.071	(1.096)	2126326	1200.00	1260	
75 Bromobenzene	77	8.405	8.405	(1.141)	1022341	300.000	276	
76 1,1,2,2-Tetrachloroethane	83	8.427	8.425	(0.924)	759775	300.000	270	
77 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	219312	300.000	293	
78 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	249482	300.000	269(Q)	
79 n-Propylbenzene	91	8.489	8.489	(0.931)	3116466	300.000	307	
80 2-Chlorotoluene	91	8.544	8.544	(0.937)	1815161	300.000	279	
81 1,3,5-Trimethylbenzene	105	8.619	8.622	(0.945)	2252998	300.000	287	
82 4-Chlorotoluene	126	8.633	8.633	(0.947)	700769	300.000	282	
83 tert-Butylbenzene	119	8.836	8.834	(0.969)	2548922	300.000	292	
84 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	2328770	300.000	286	
85 sec-Butylbenzene	105	8.987	8.987	(0.985)	2696371	300.000	294	
86 1,3-Dichlorobenzene	146	9.065	9.067	(0.994)	1424266	300.000	282	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	2387069	300.000	302	
* 88 1,4-Dichlorobenzene-d4	152	9.120	9.120	(1.000)	125178	50.0000	(Q)	
89 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	1466365	300.000	266	
90 1,2-Dichlorobenzene	146	9.365	9.368	(1.027)	1387662	300.000	278	
91 n-Butylbenzene	91	9.357	9.359	(1.026)	1969085	300.000	307	
92 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	178932	300.000	288	
93 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	1022767	300.000	331	
94 Hexachlorobutadiene	225	10.453	10.453	(1.146)	383242	300.000	312	
95 Naphthalene	128	10.534	10.533	(1.155)	2868732	300.000	304	
96 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	978936	300.000	330	
97 2,methyl-naphthalene	142	11.226	11.226	(1.231)	1536919	300.000	356	
98 1-Methylnaphthalene	142	11.349	11.349	(1.244)	1279822	300.000	337	

QC Flag Legend

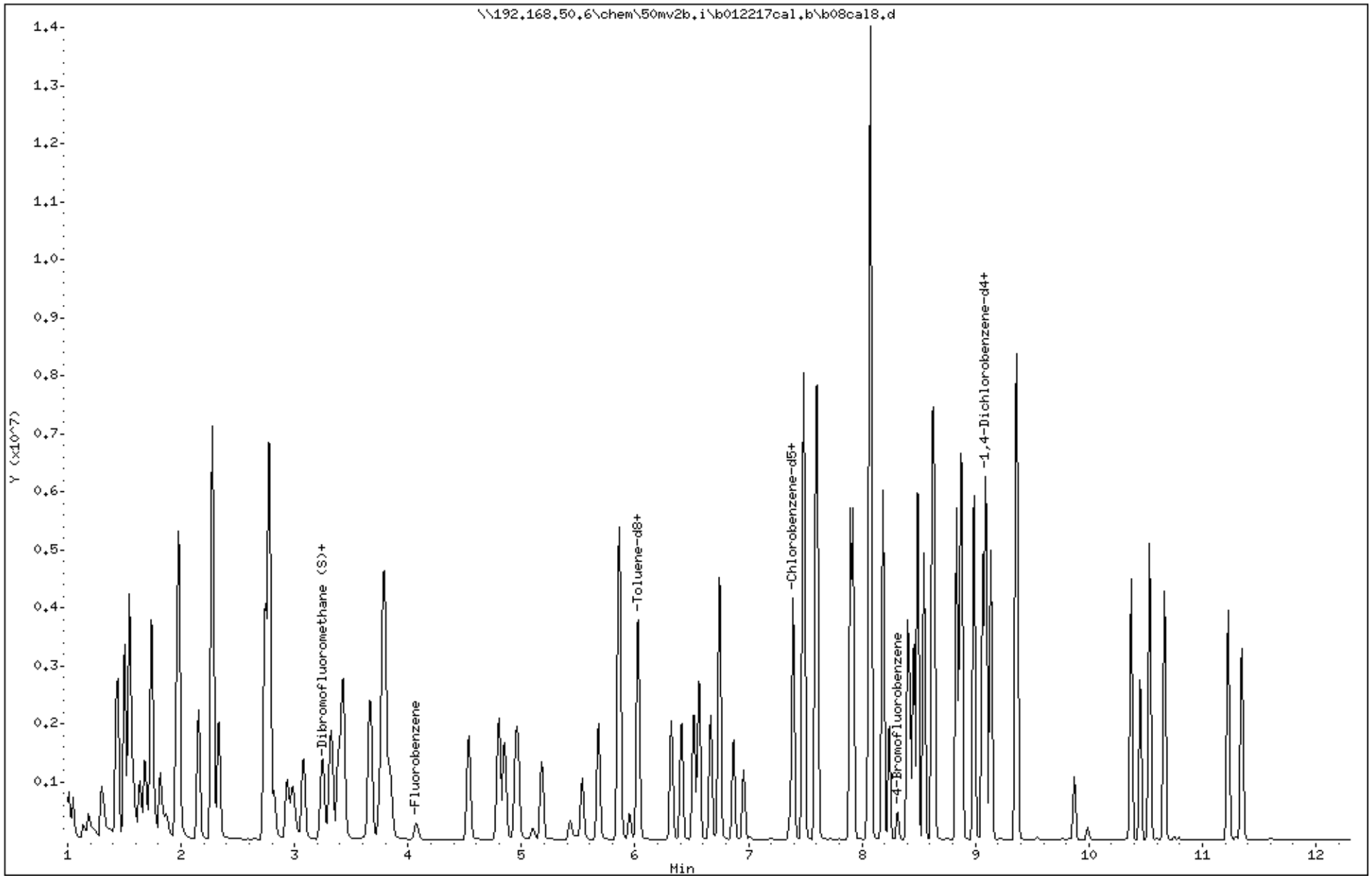
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b08cal8.d
Date : 23-JAN-2017 02:01
Client ID: 8260-CAL8
Sample Info: 8260-CAL8,140433:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



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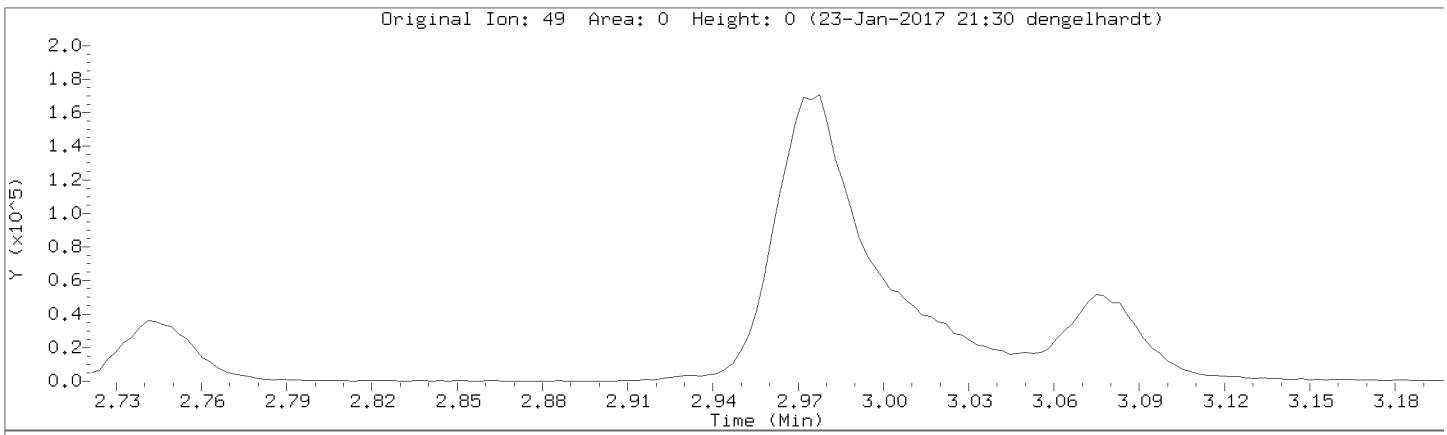
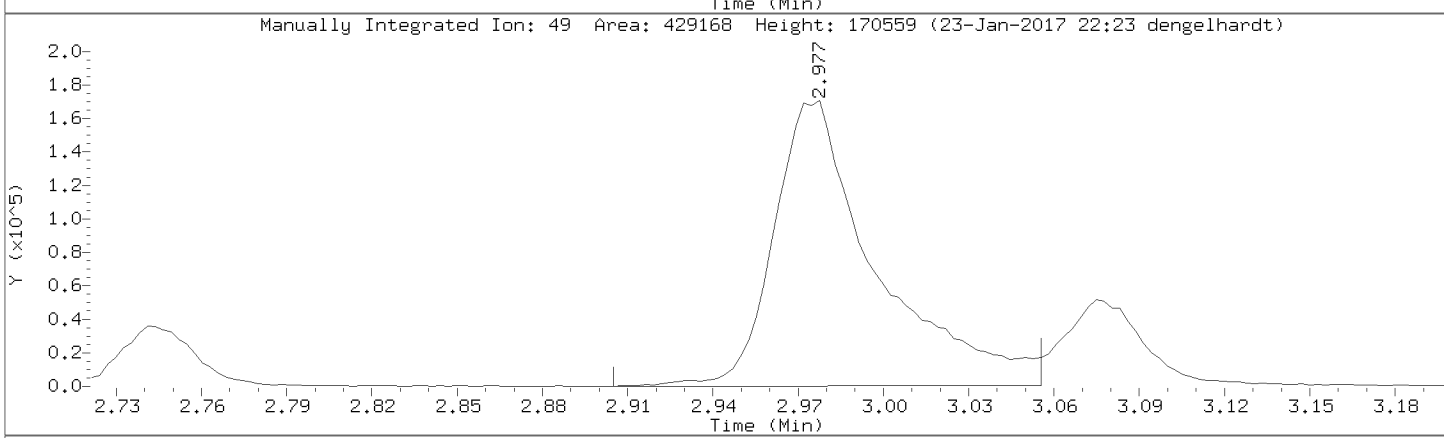
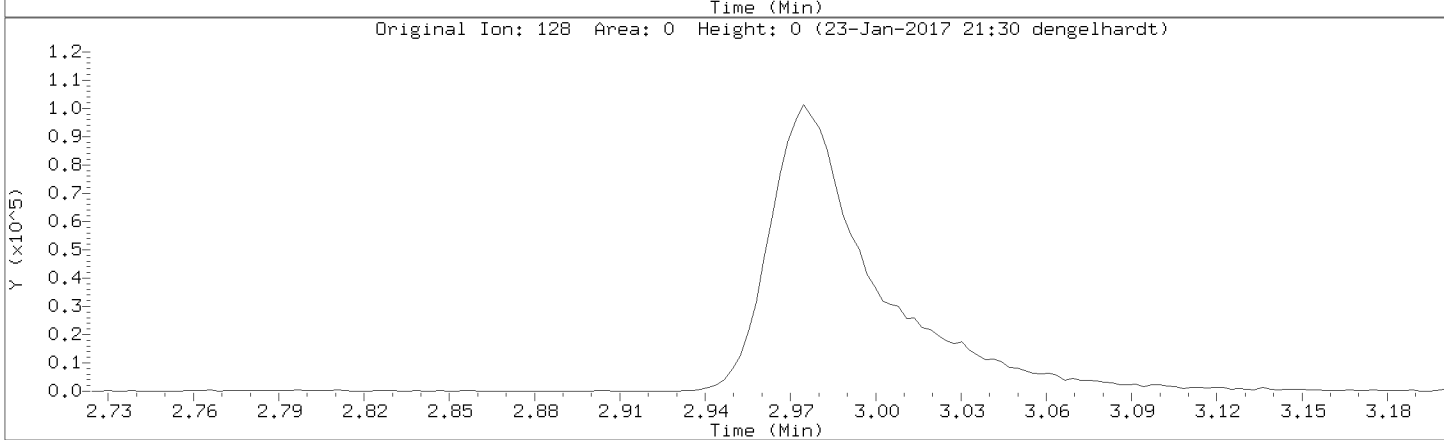
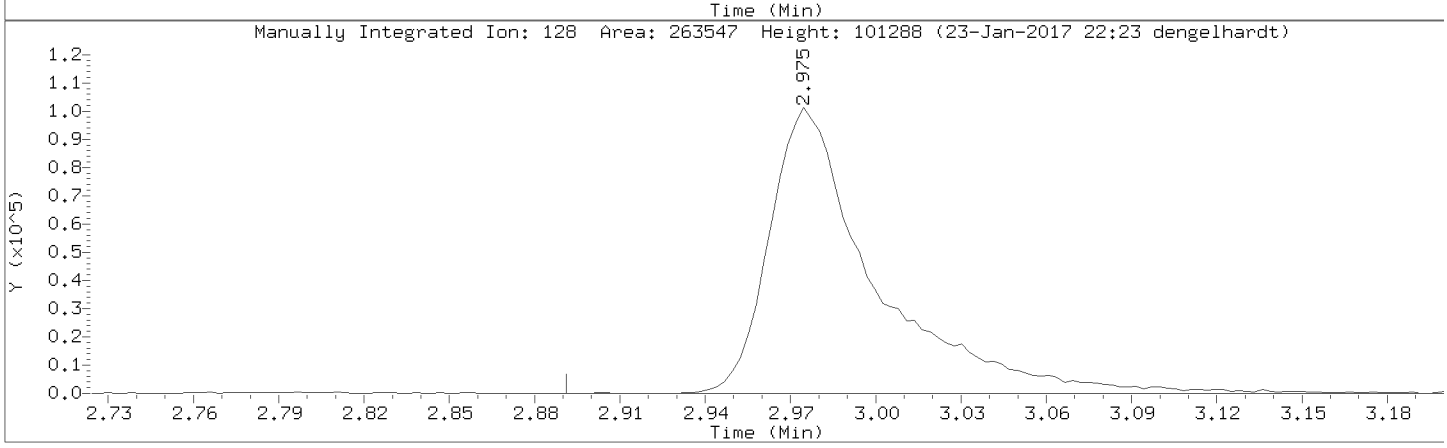
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Bromochloromethane Review Code: NI
CAS Number: 74-97-5









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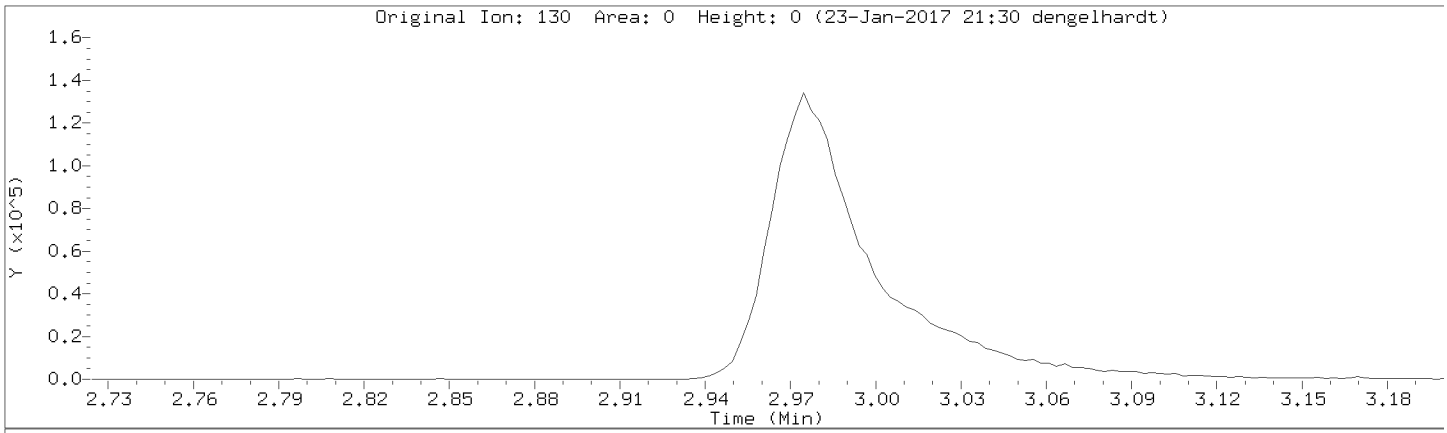
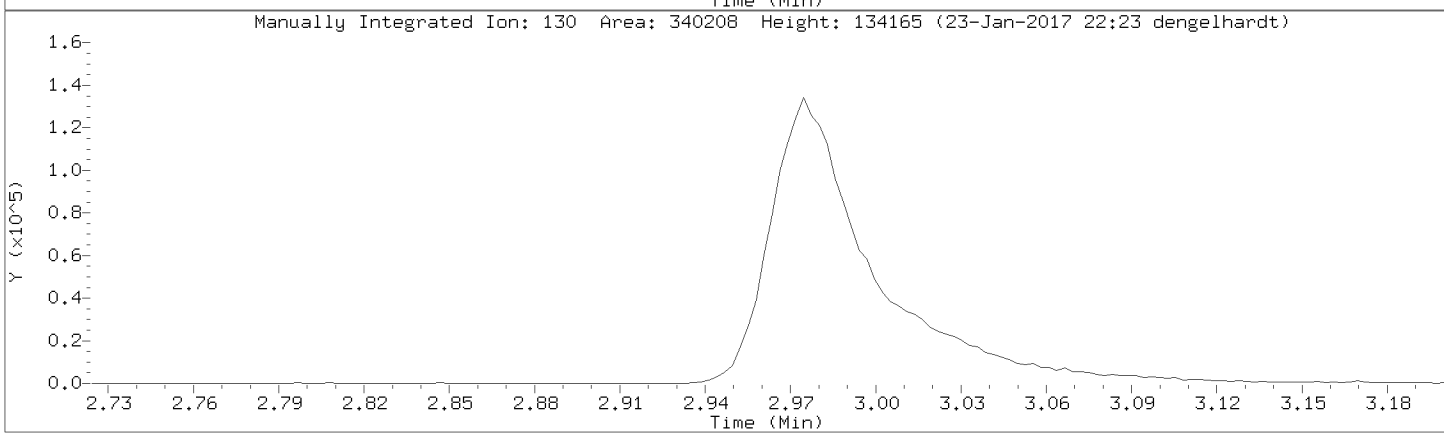
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8





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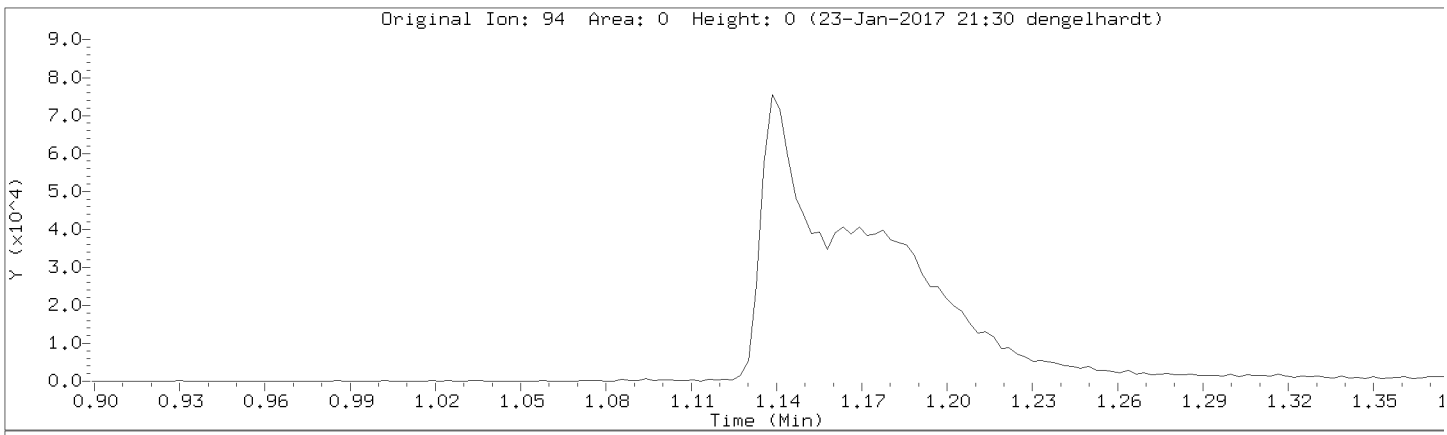
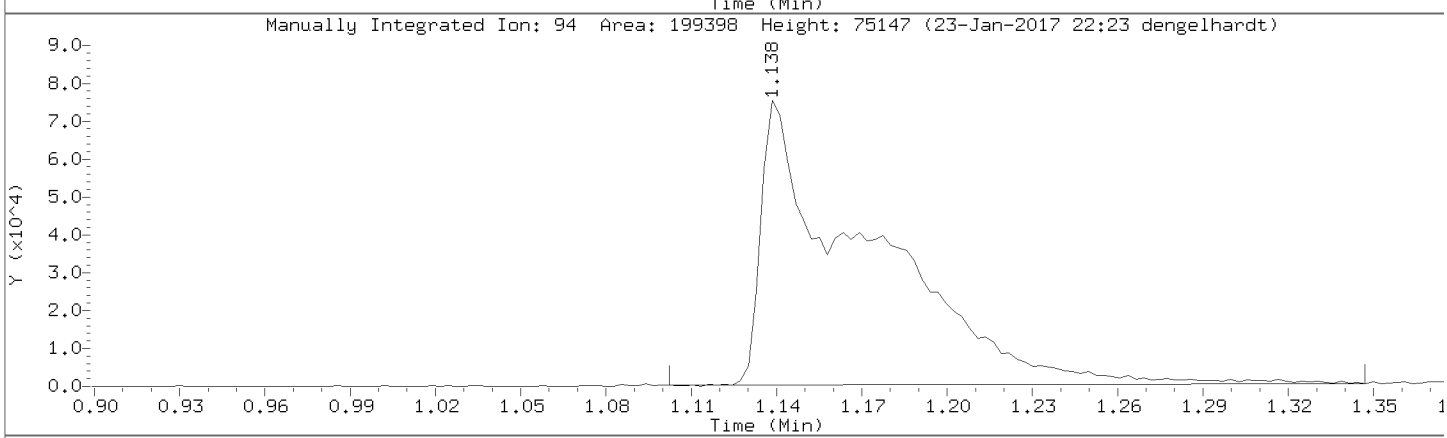
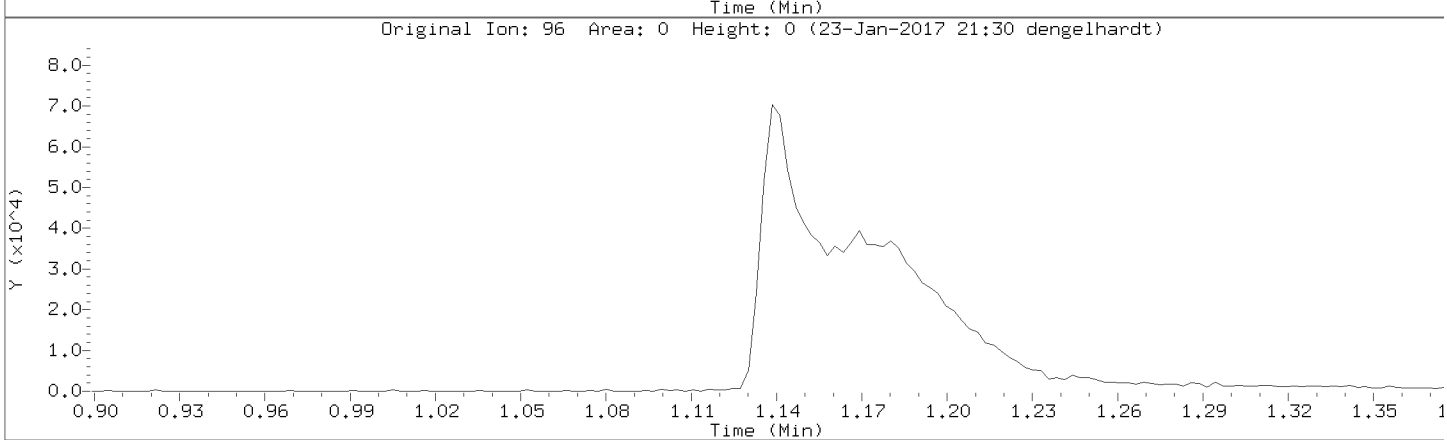
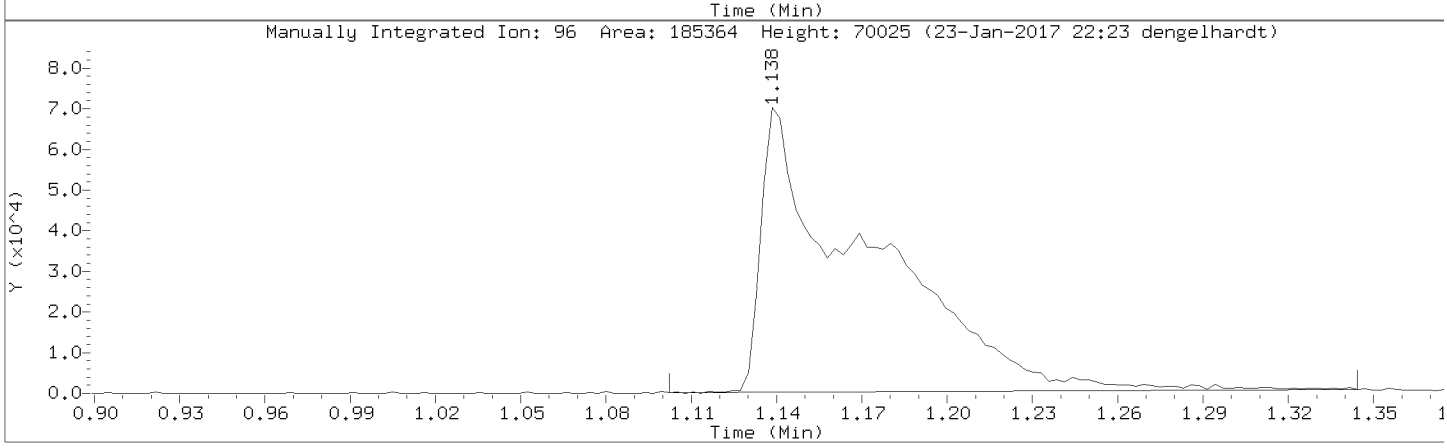
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Bromomethane Review Code: NI
CAS Number: 74-83-9









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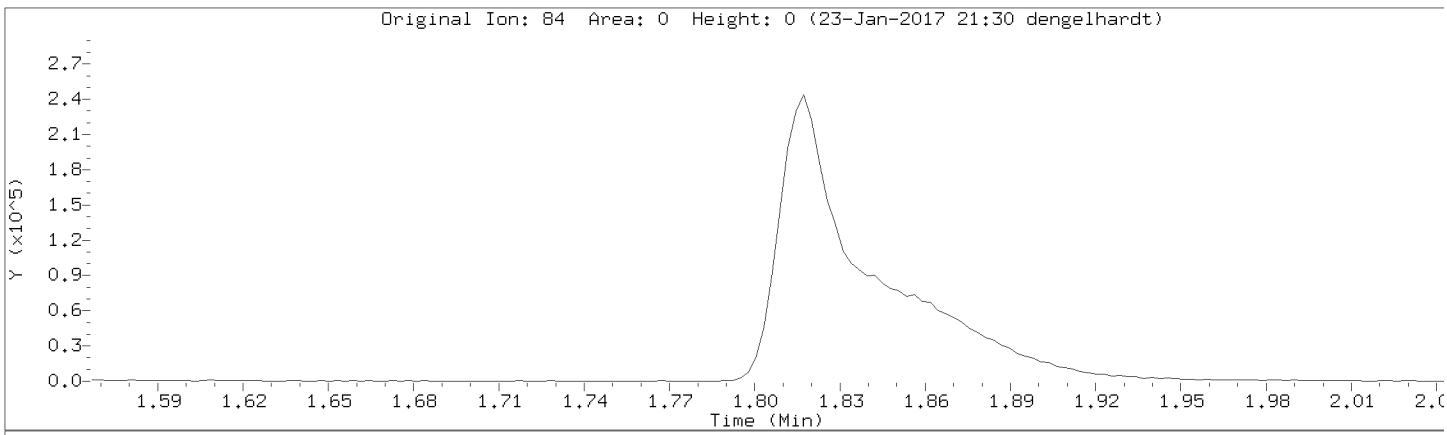
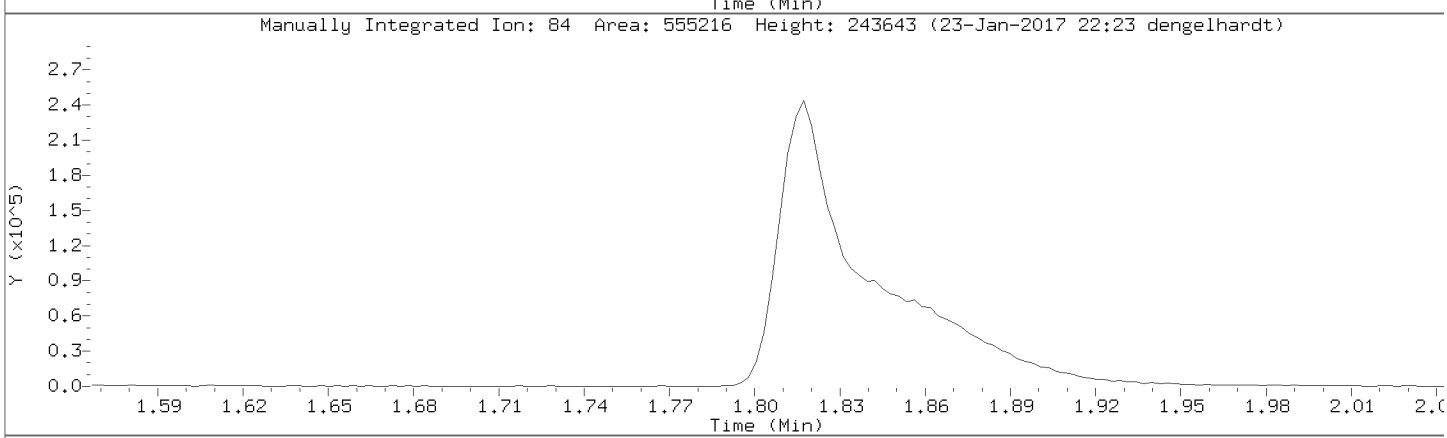
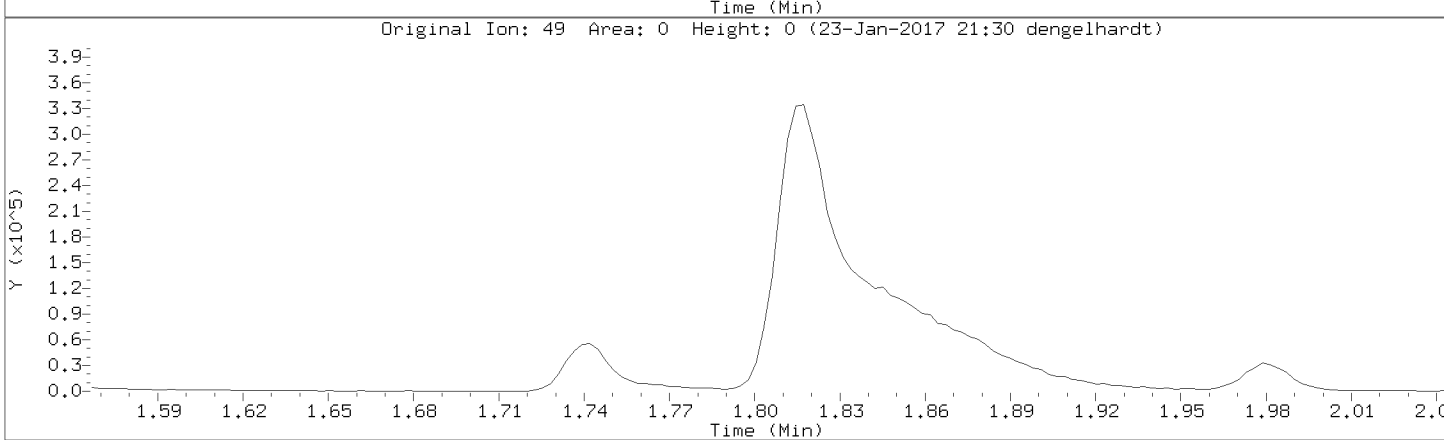
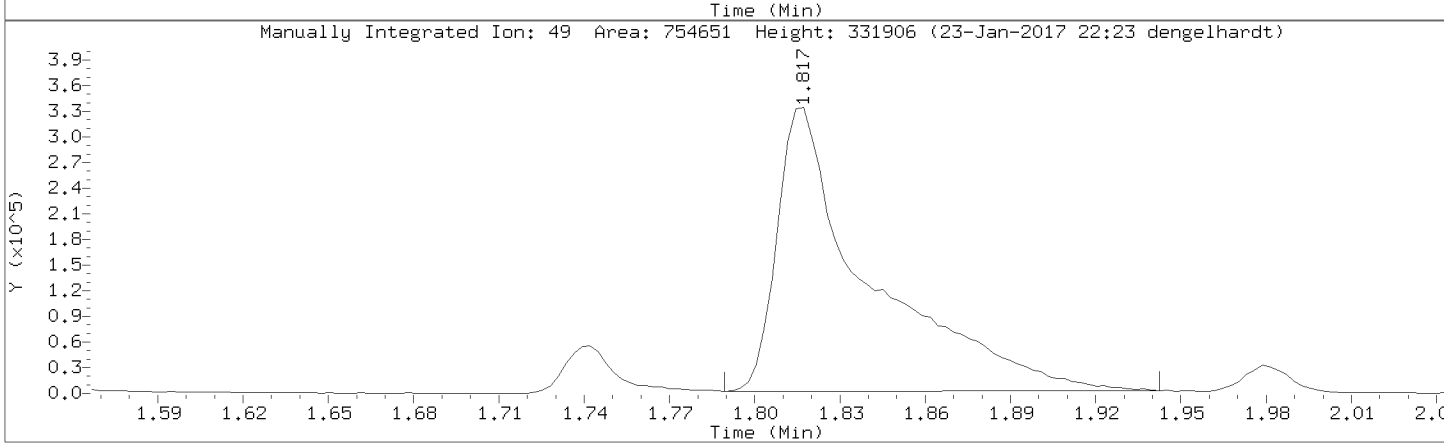
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Methylene Chloride Review Code: NI
CAS Number: 75-09-2









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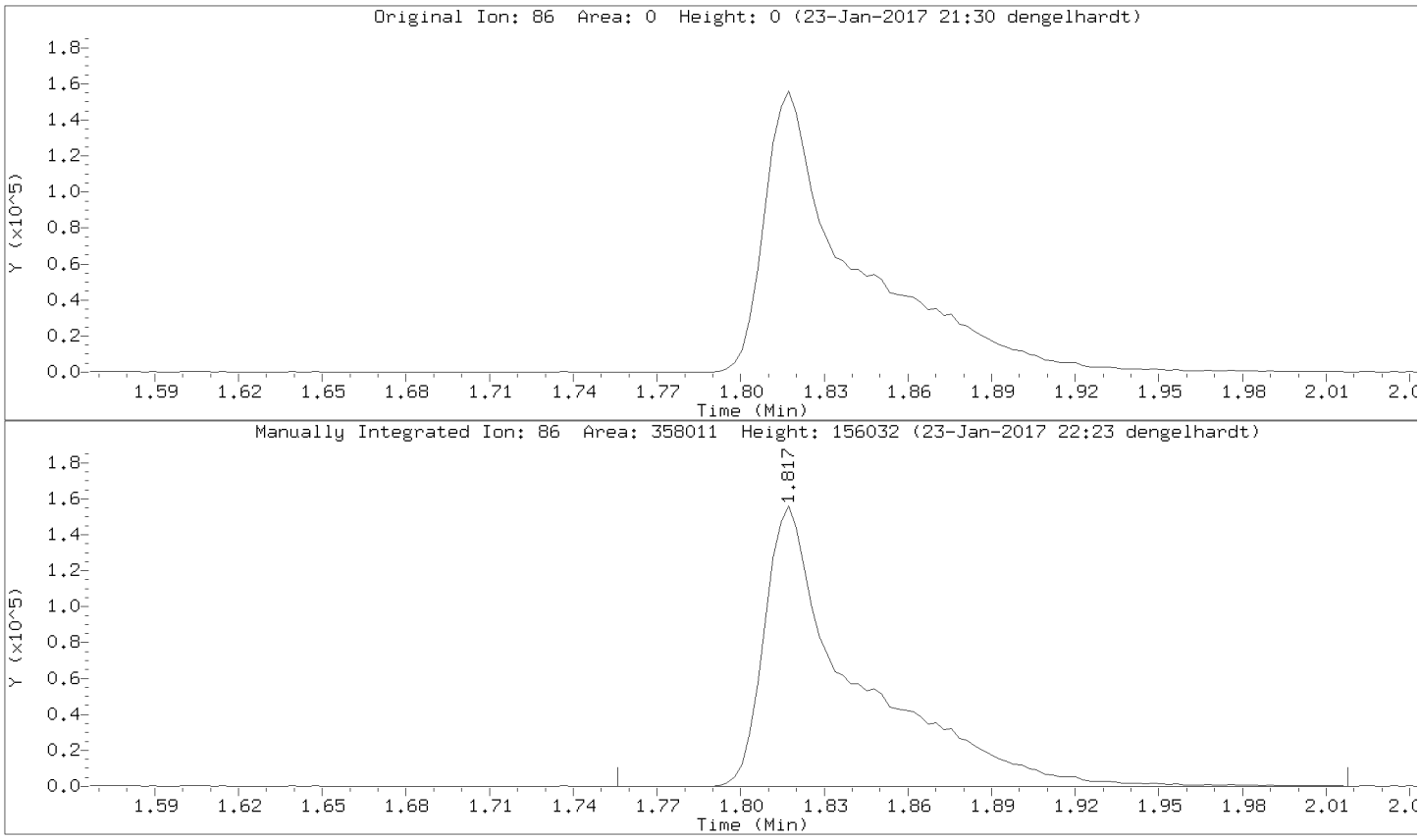
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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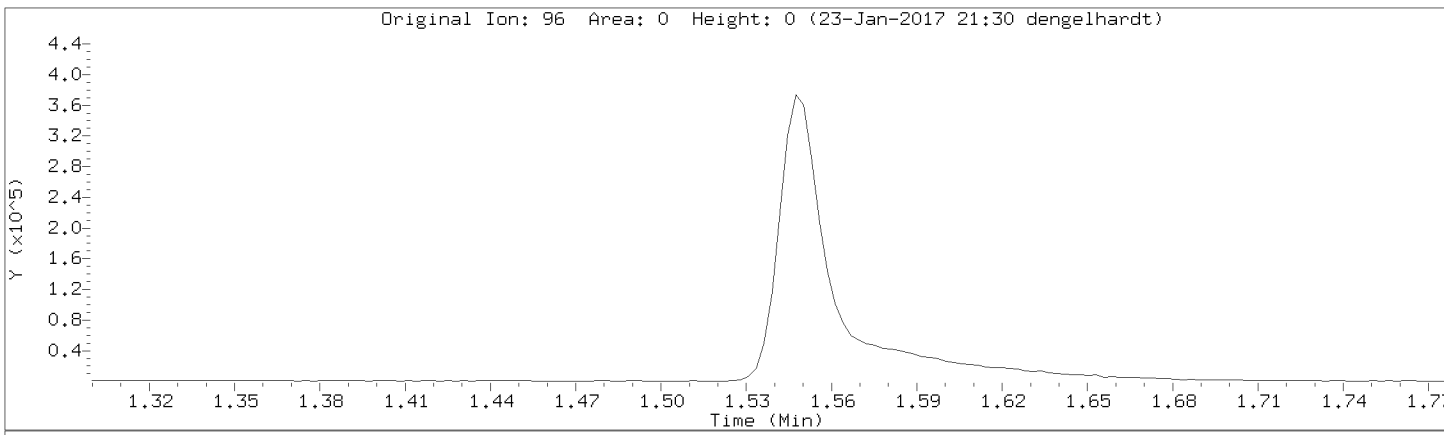
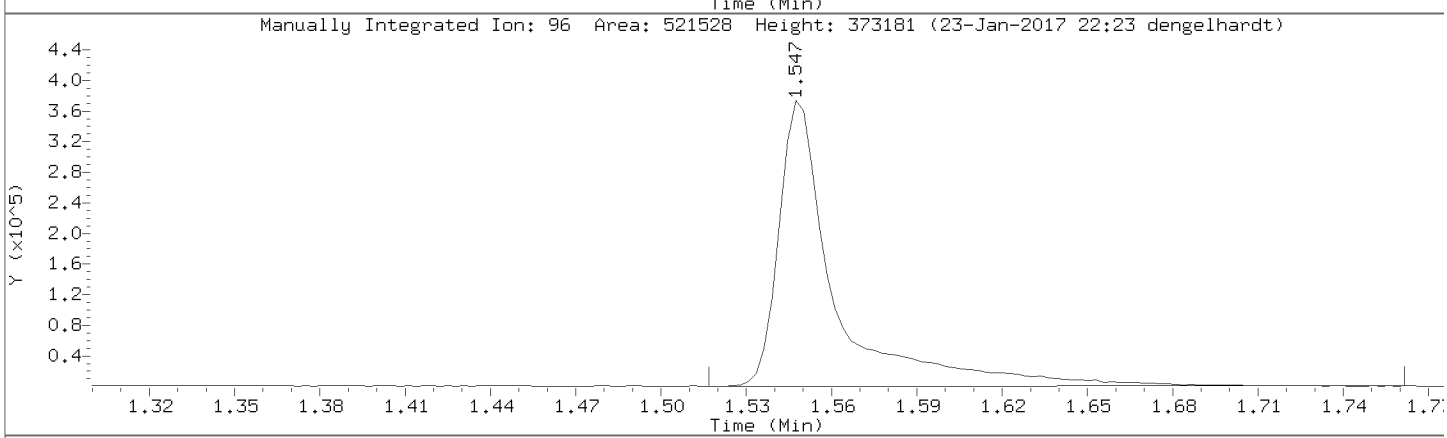
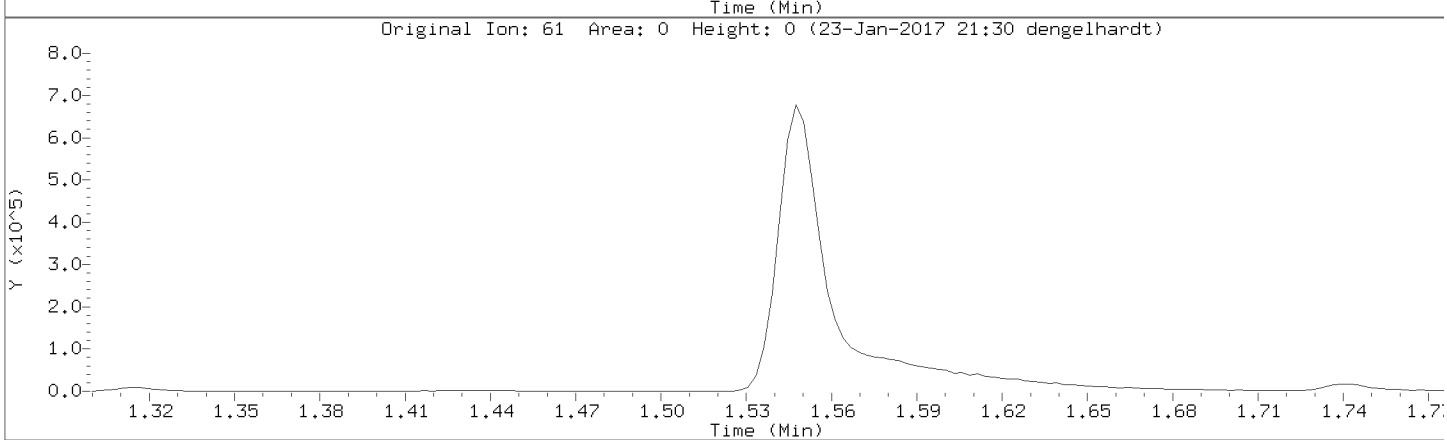
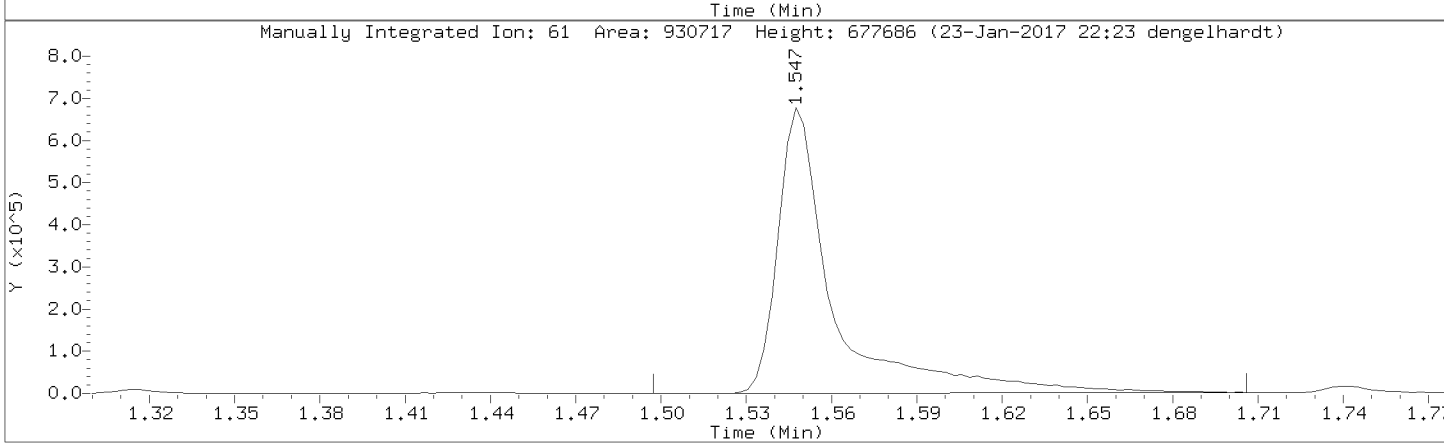
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,1-Dichloroethene Review Code: NI
CAS Number: 75-35-4









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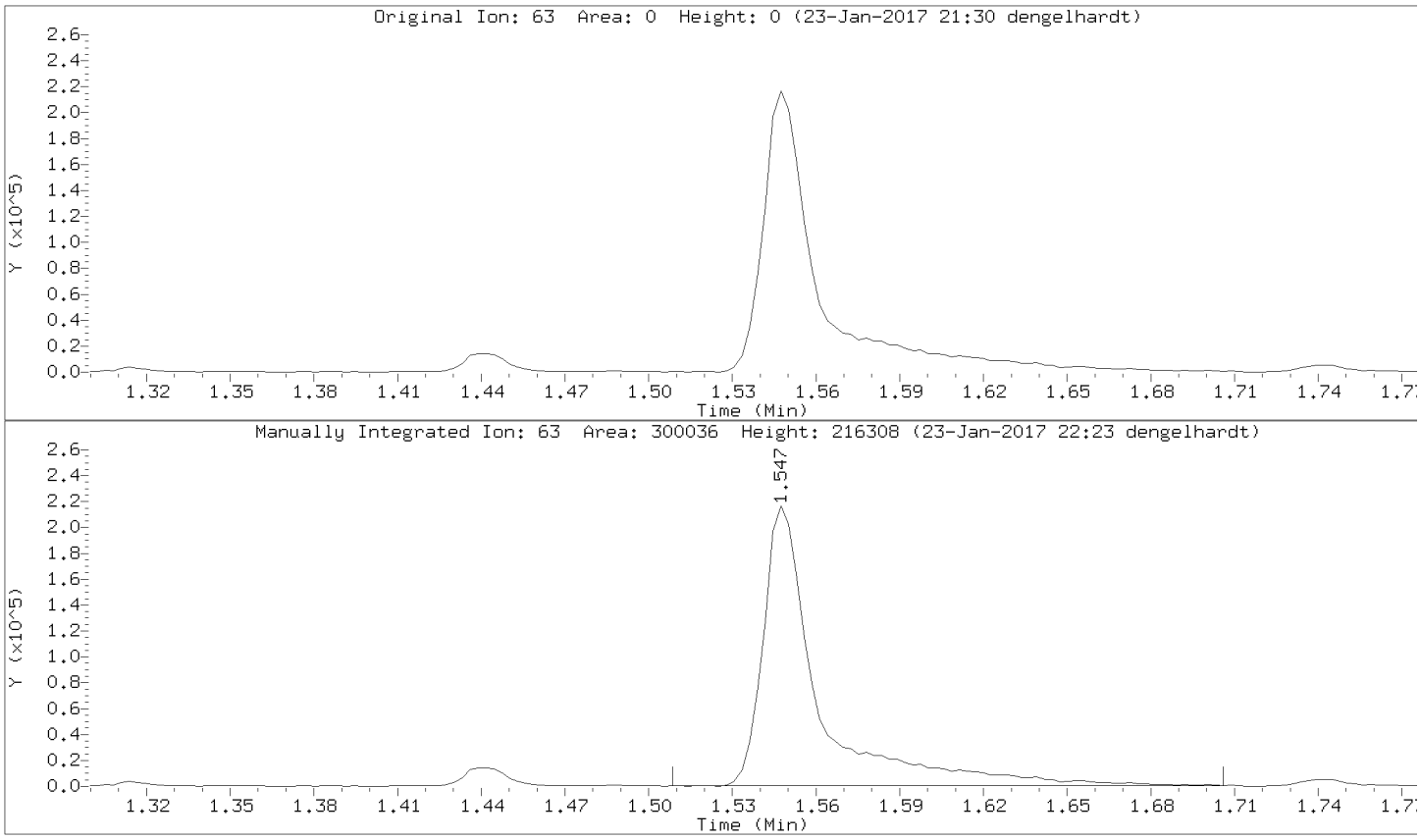
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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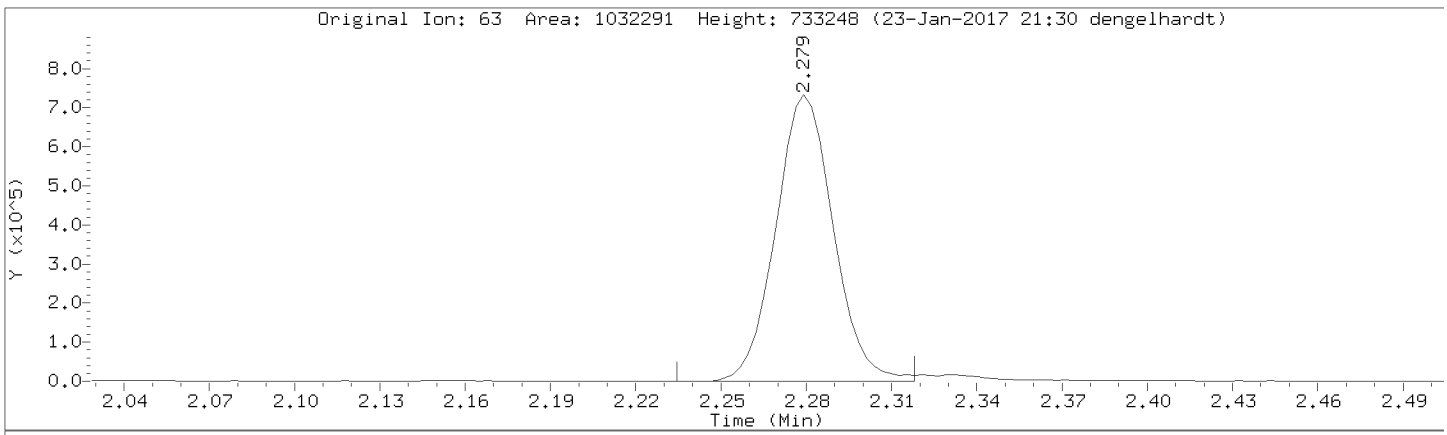
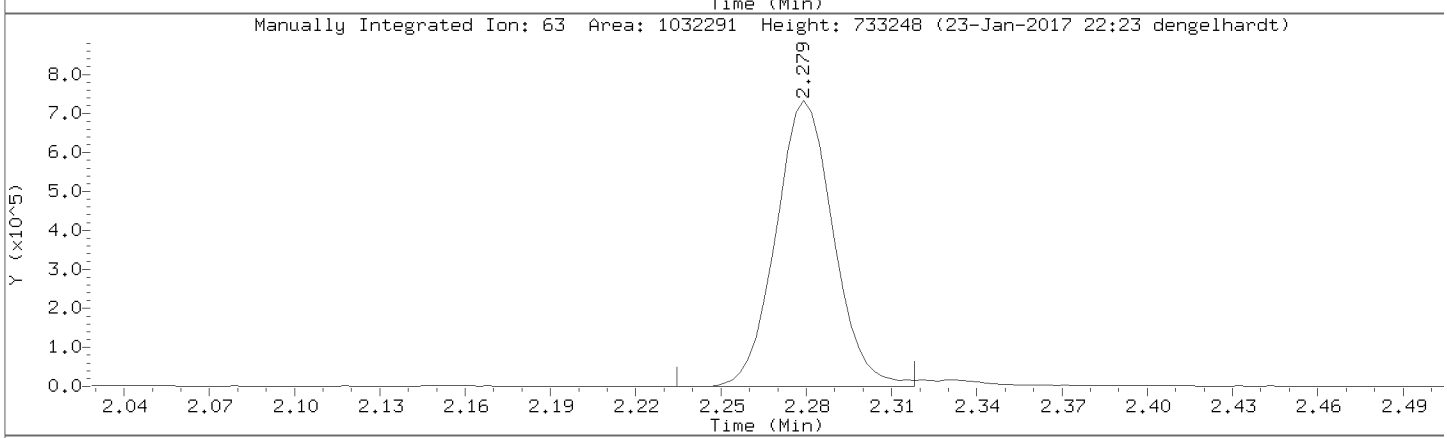
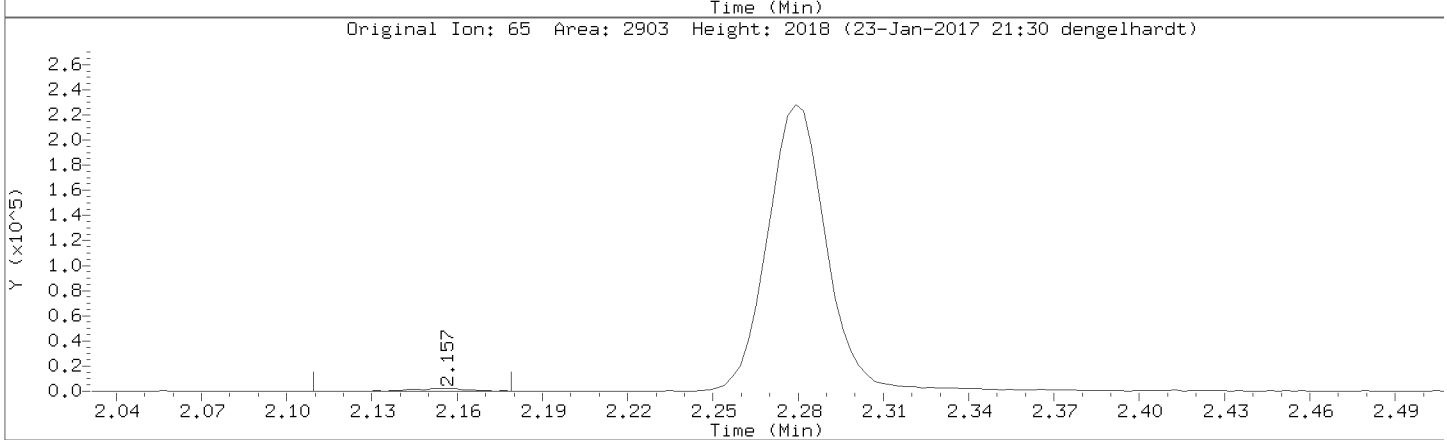
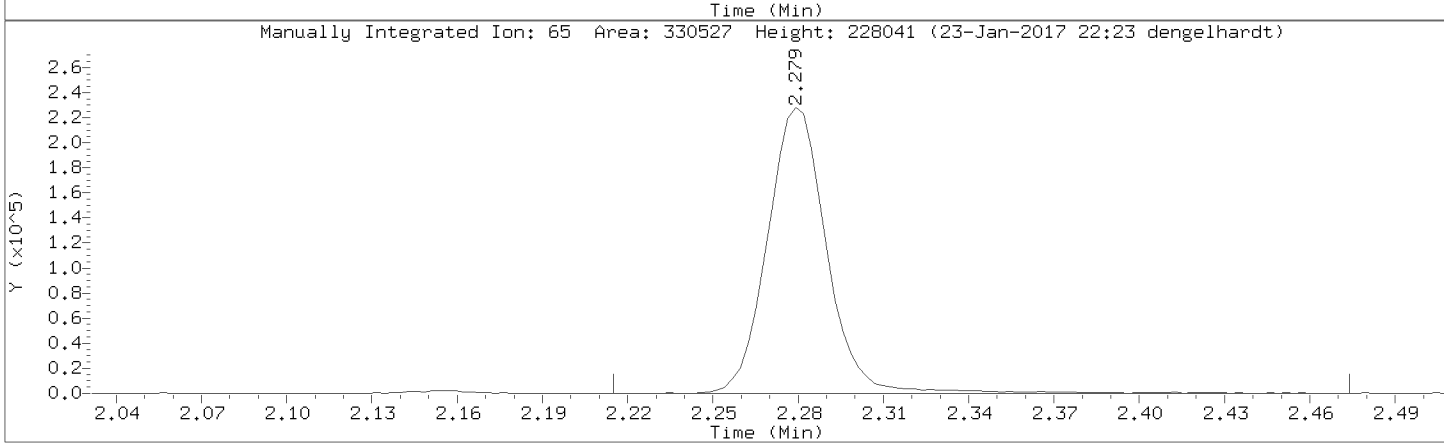
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,1-Dichloroethane Review Code: WP
CAS Number: 75-34-3









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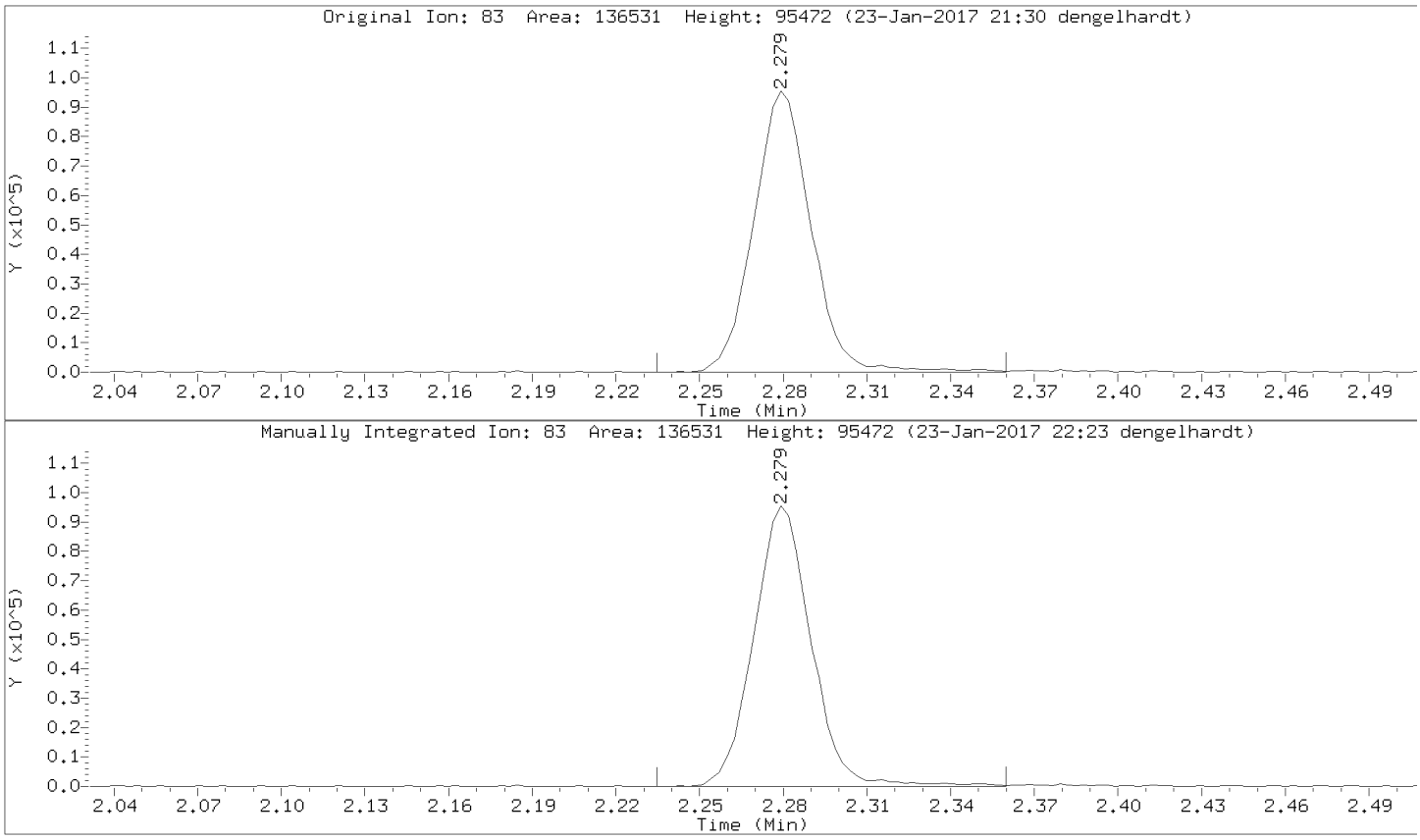
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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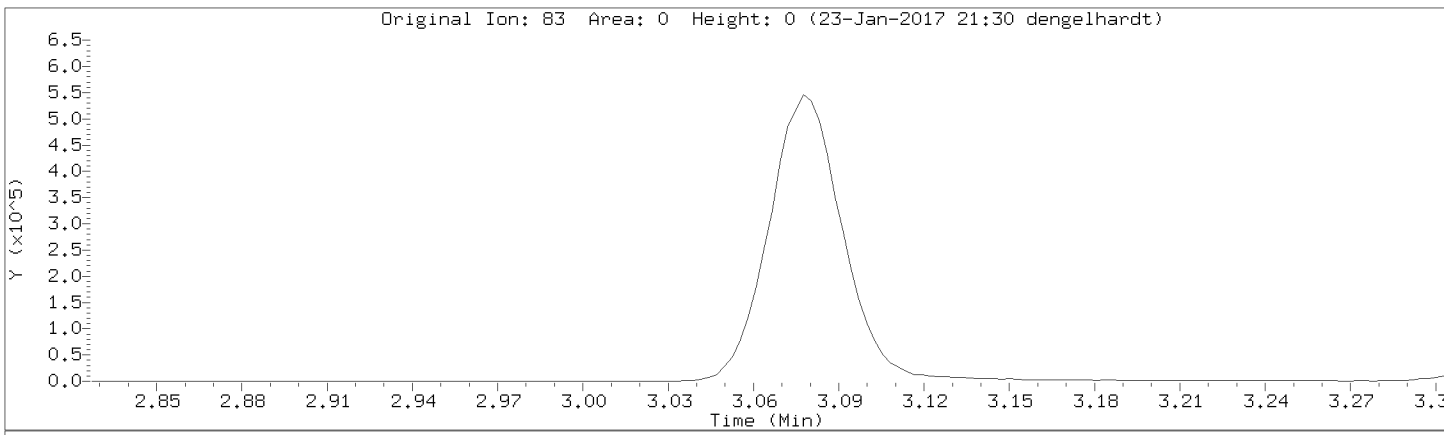
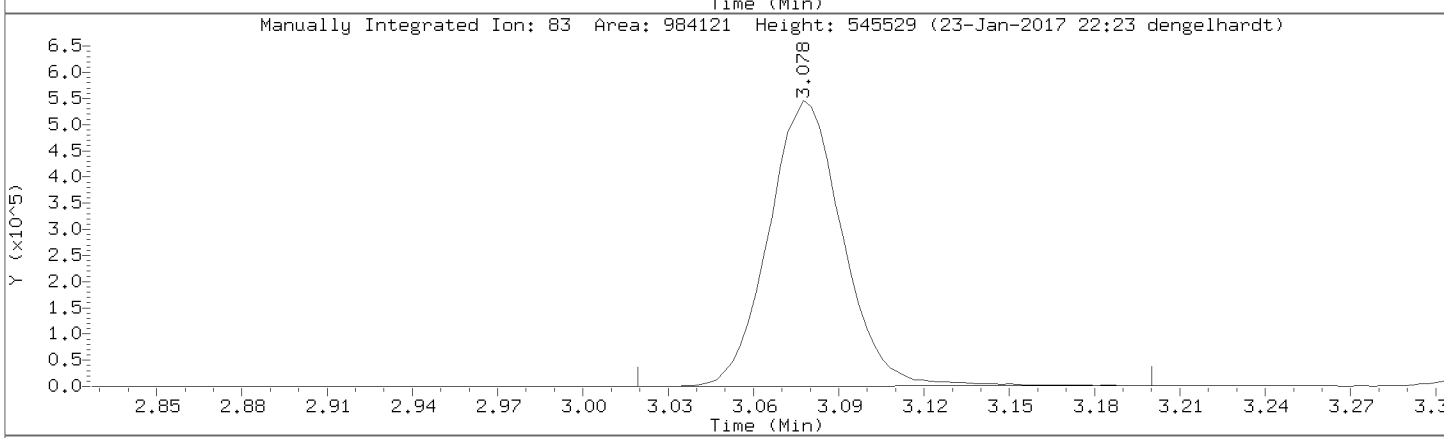
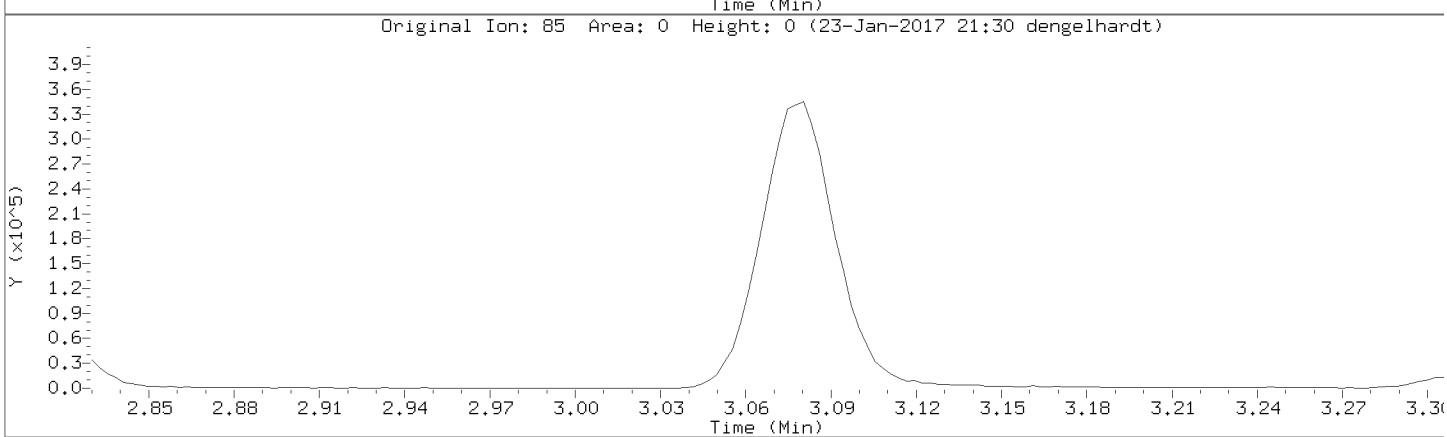
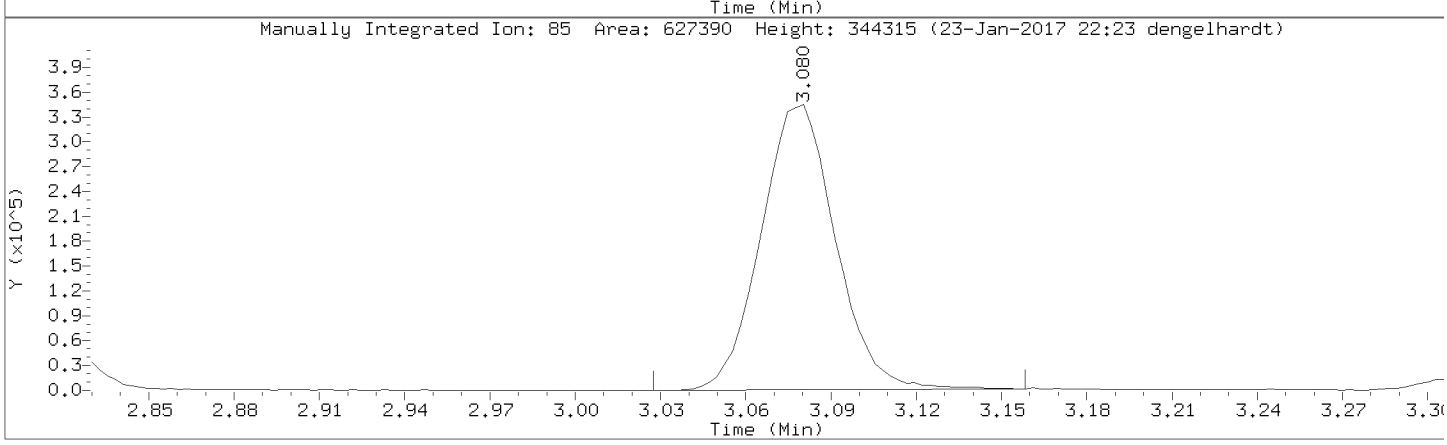
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Chloroform Review Code: NI
CAS Number: 67-66-3









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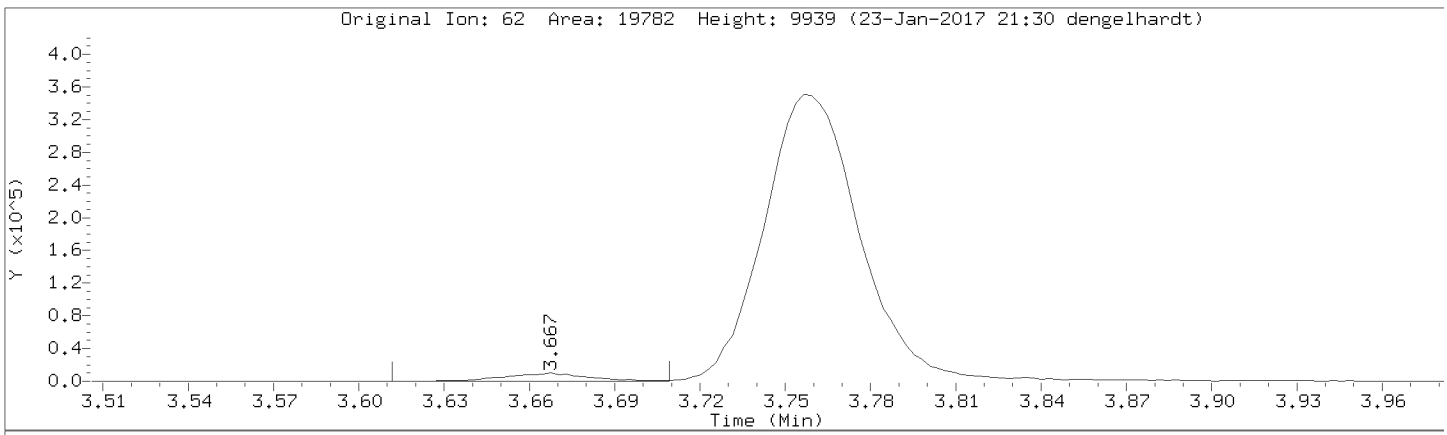
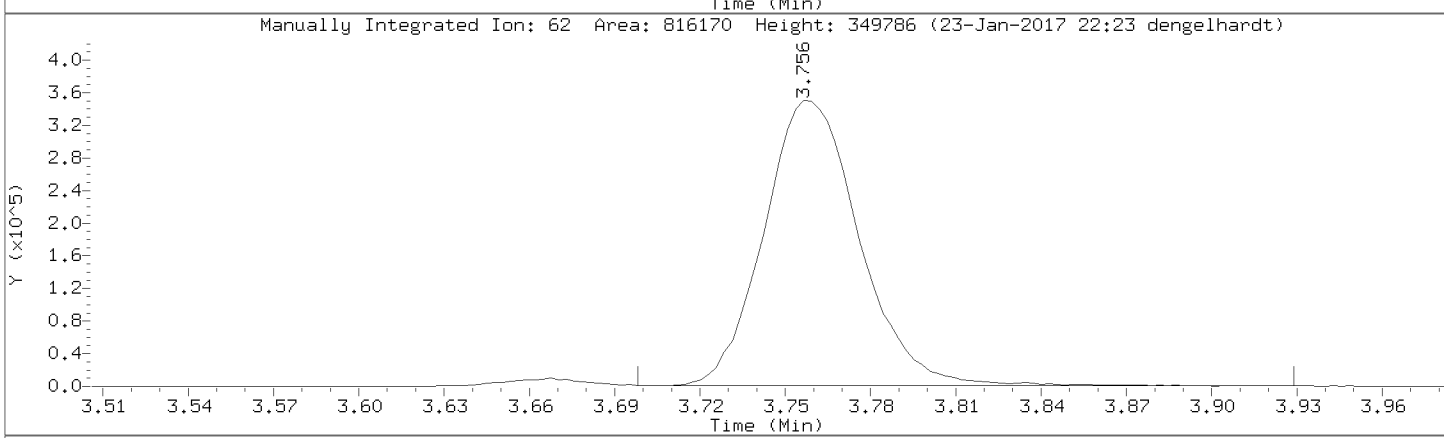
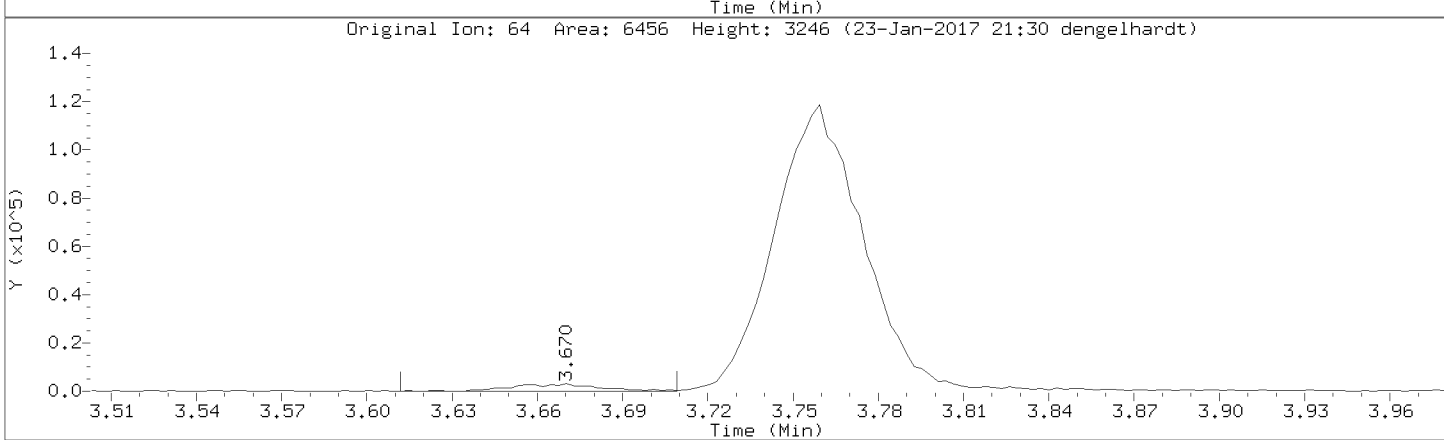
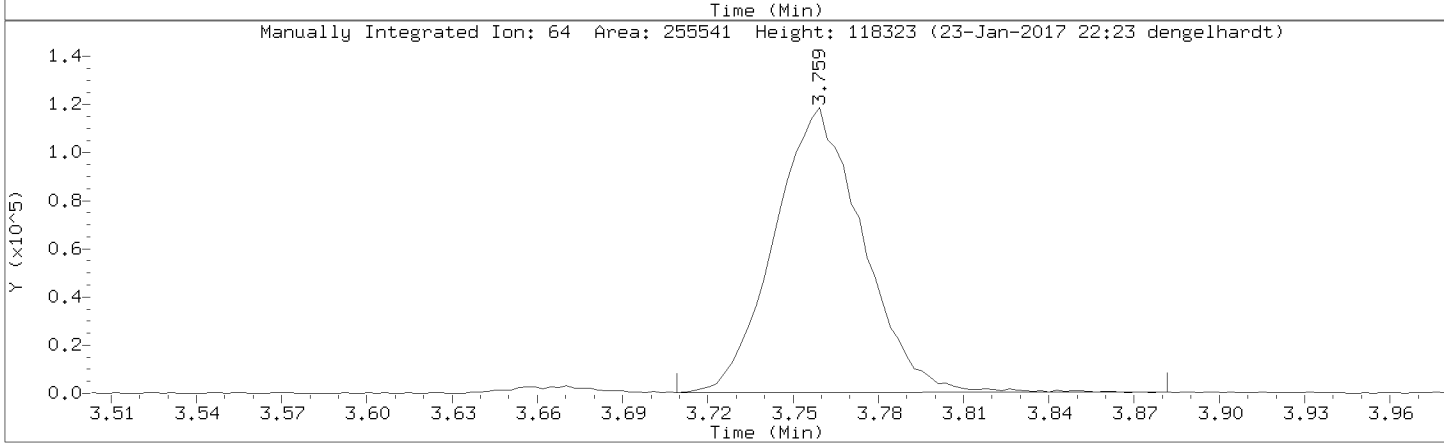
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,2-Dichloroethane Review Code: WP
CAS Number: 107-06-2









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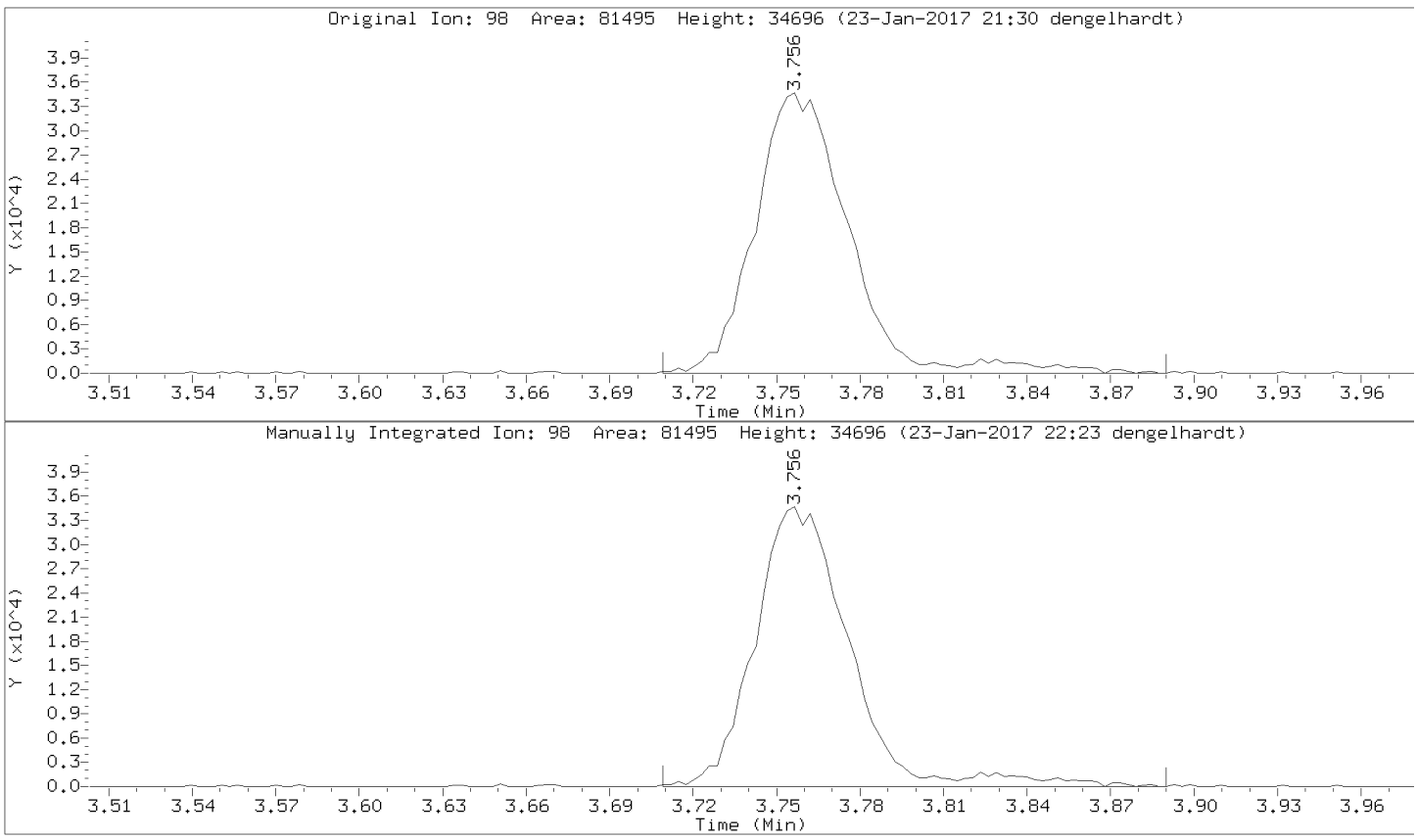
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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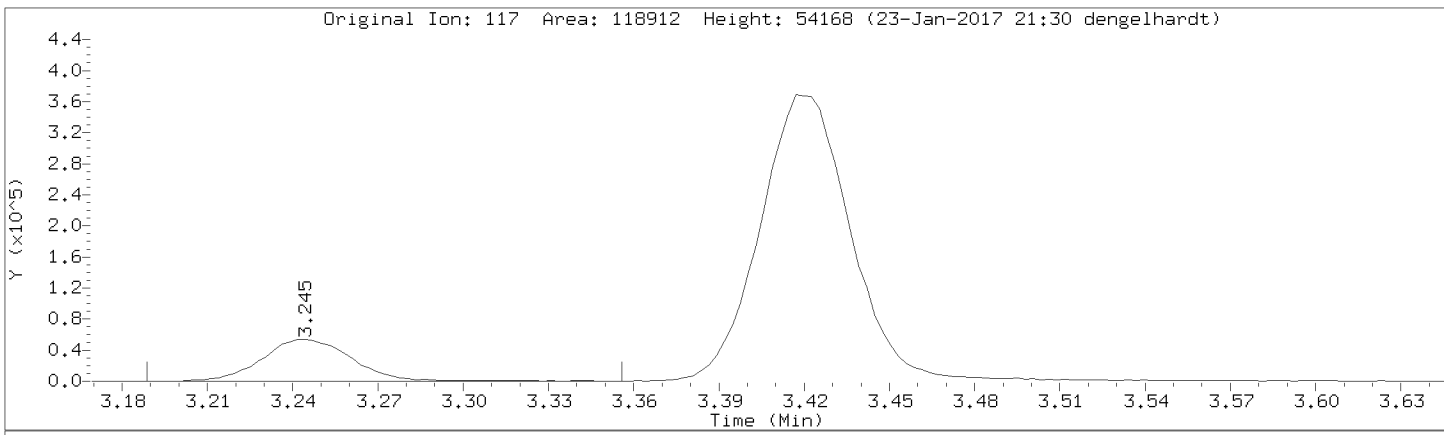
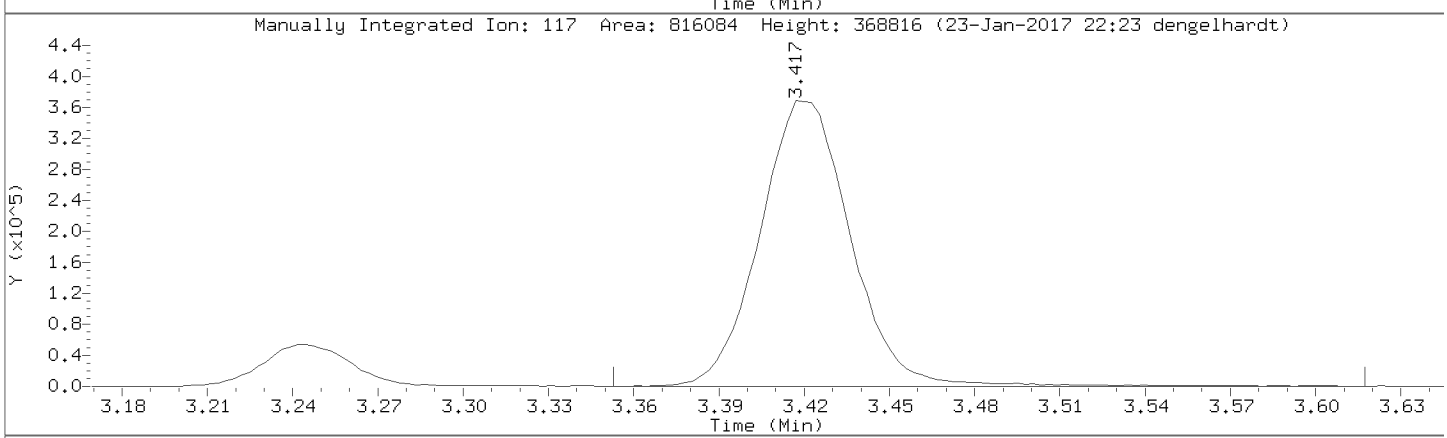
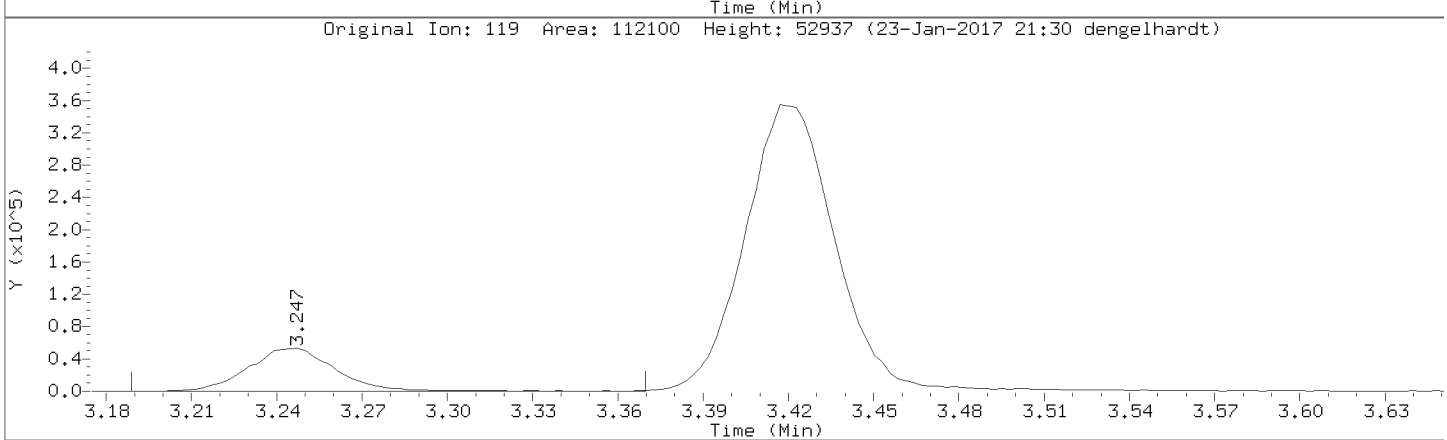
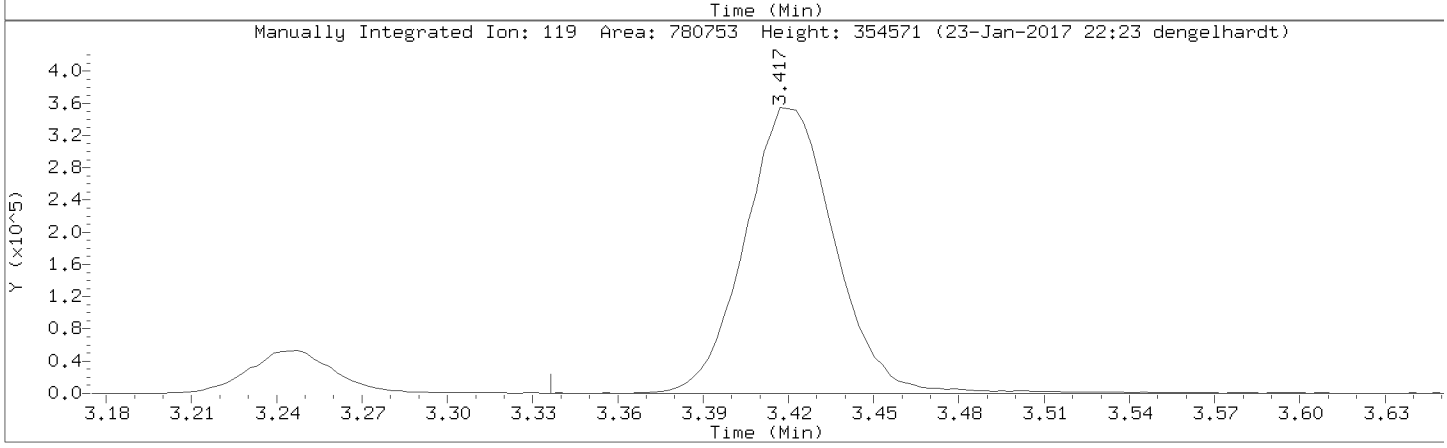
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Carbon Tetrachloride Review Code: NI
CAS Number: 56-23-5









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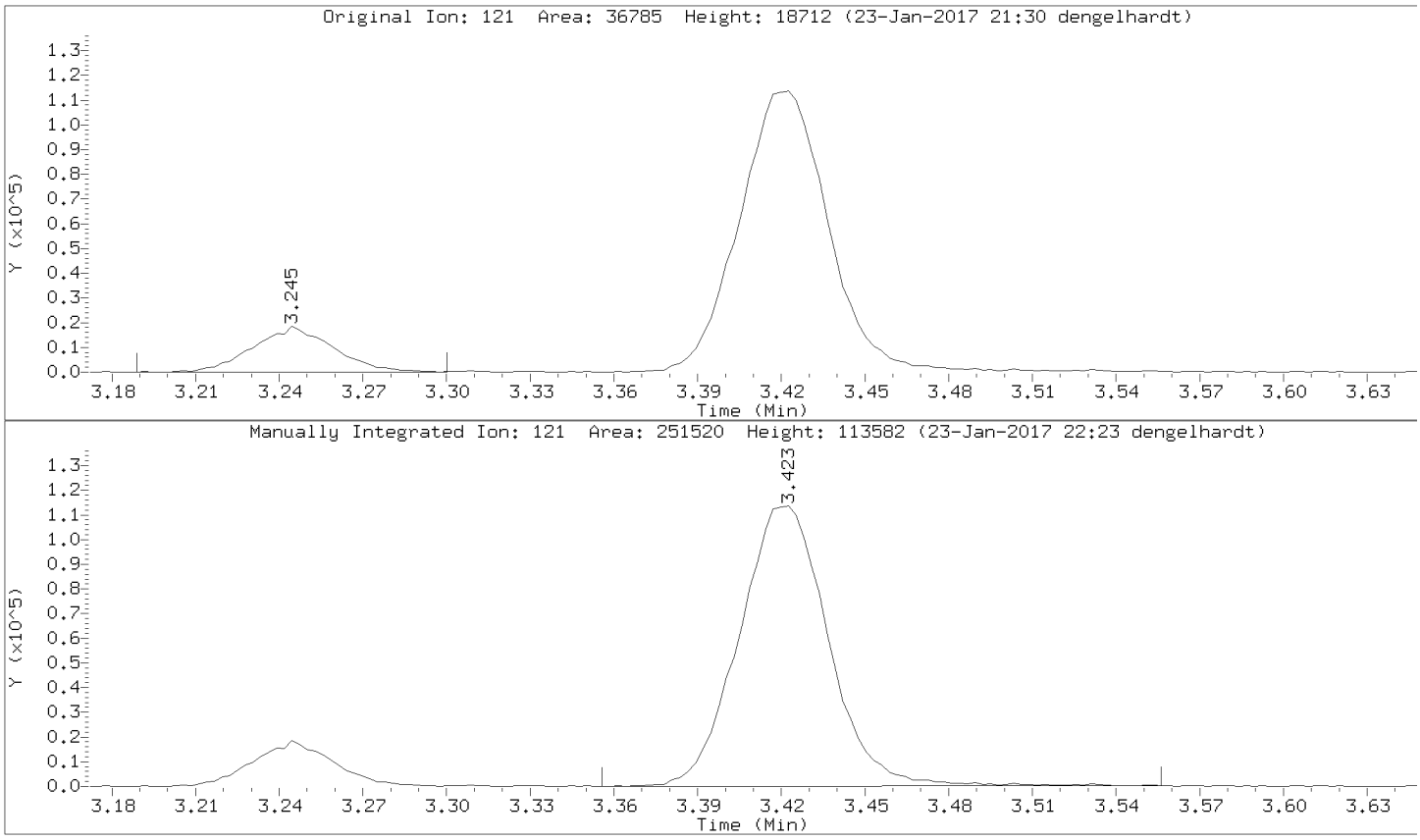
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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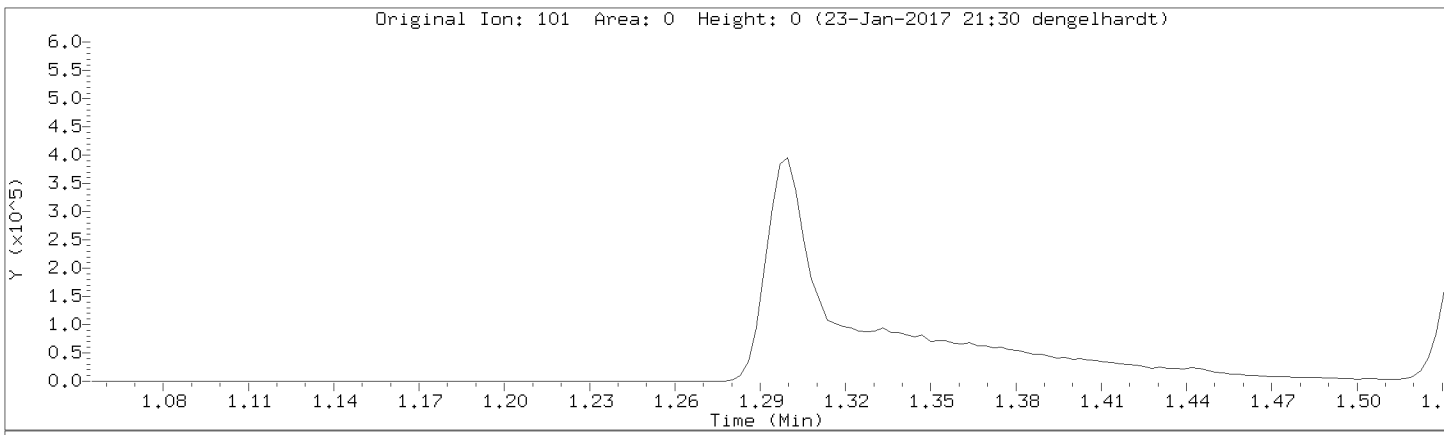
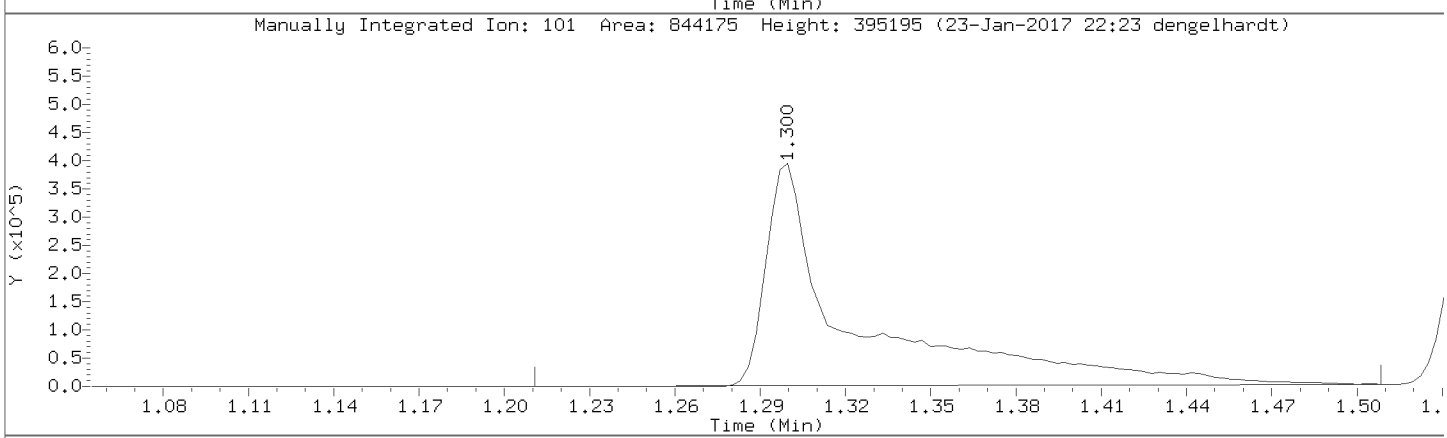
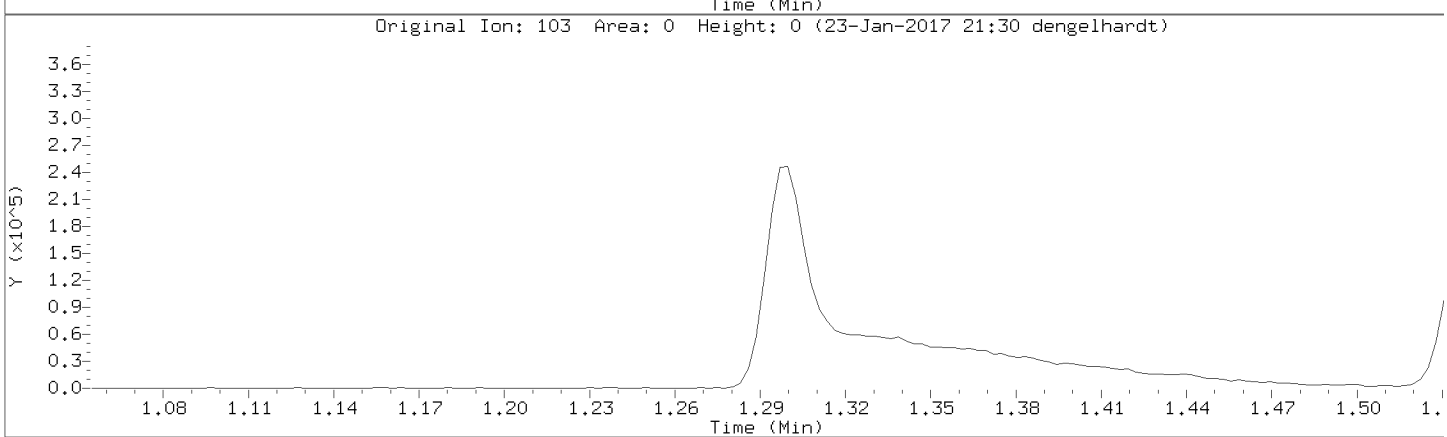
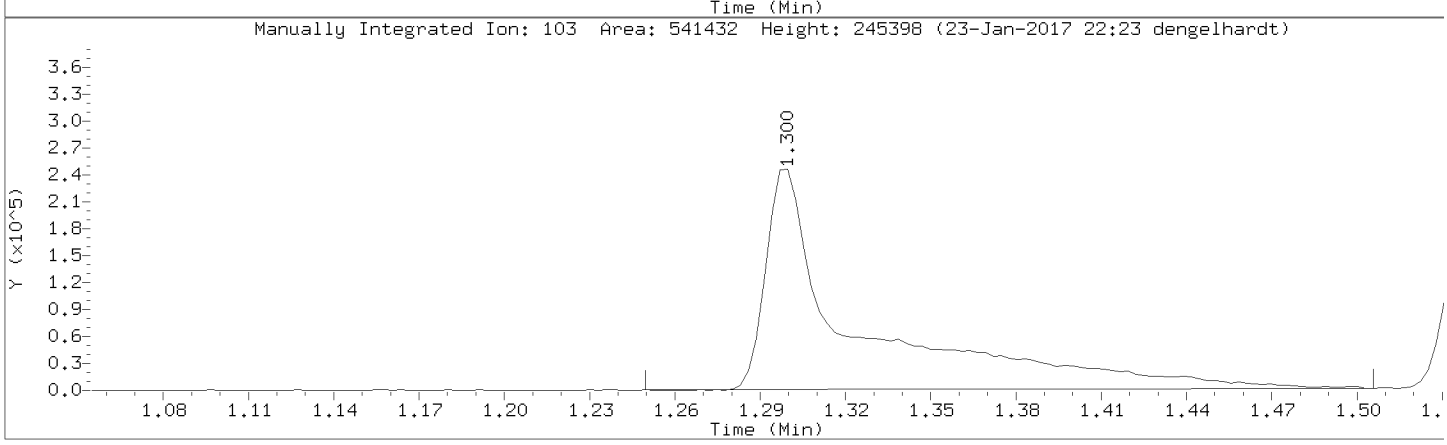
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Trichlorofluoromethane Review Code: NI
CAS Number: 75-69-4









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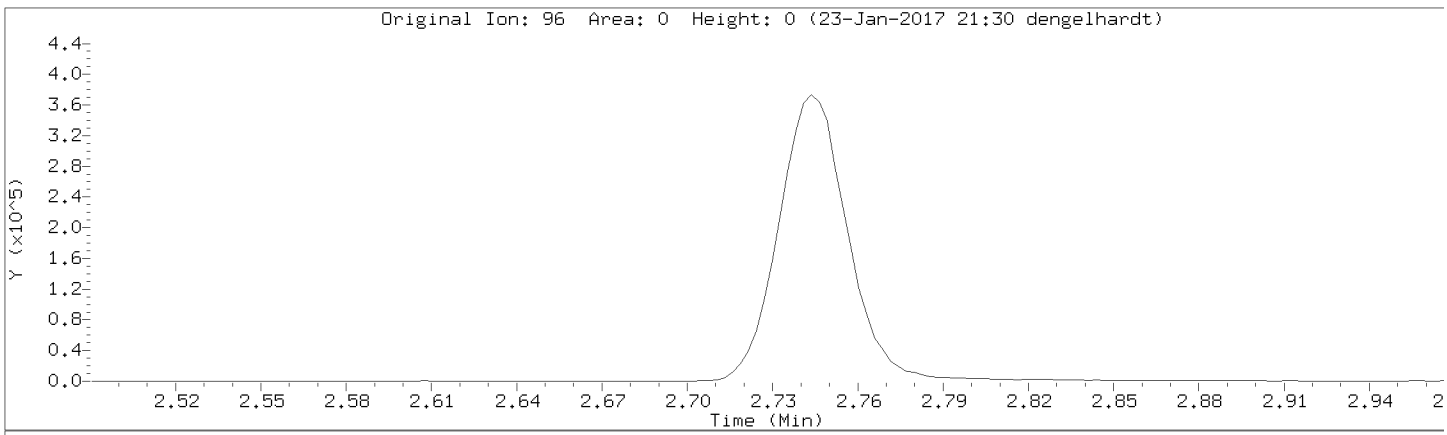
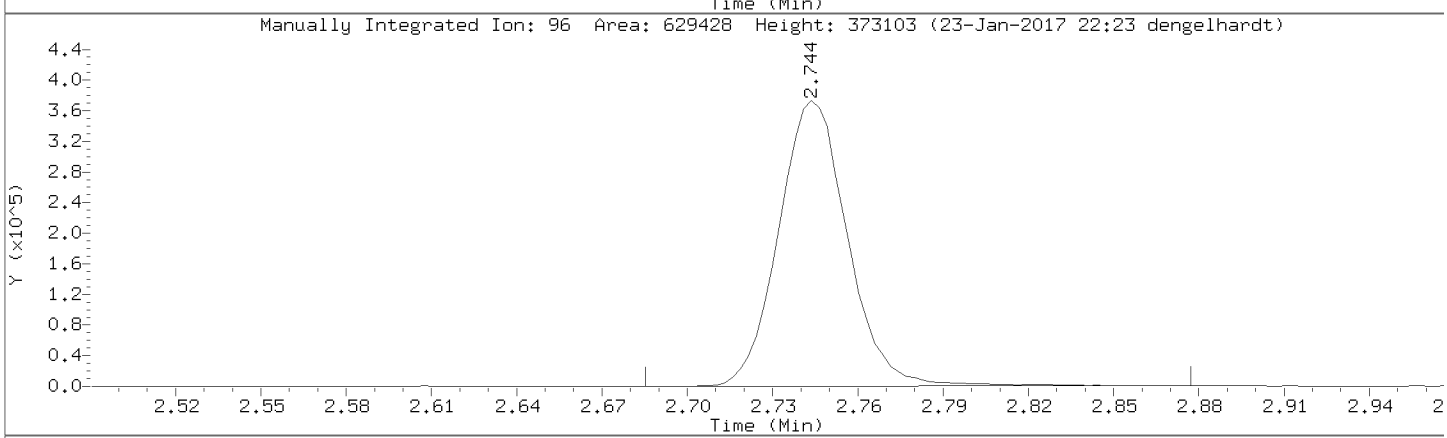
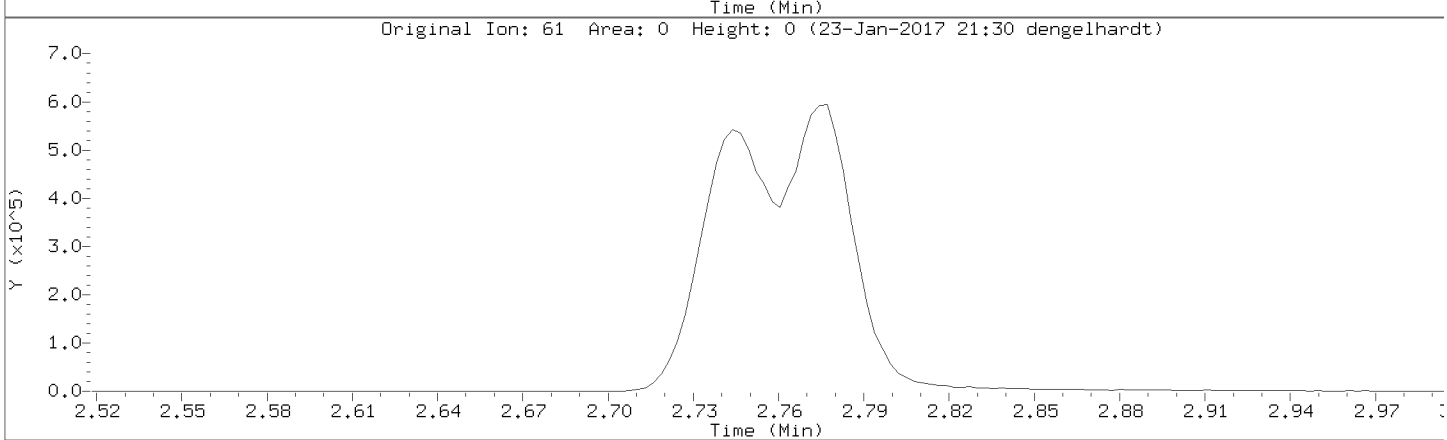
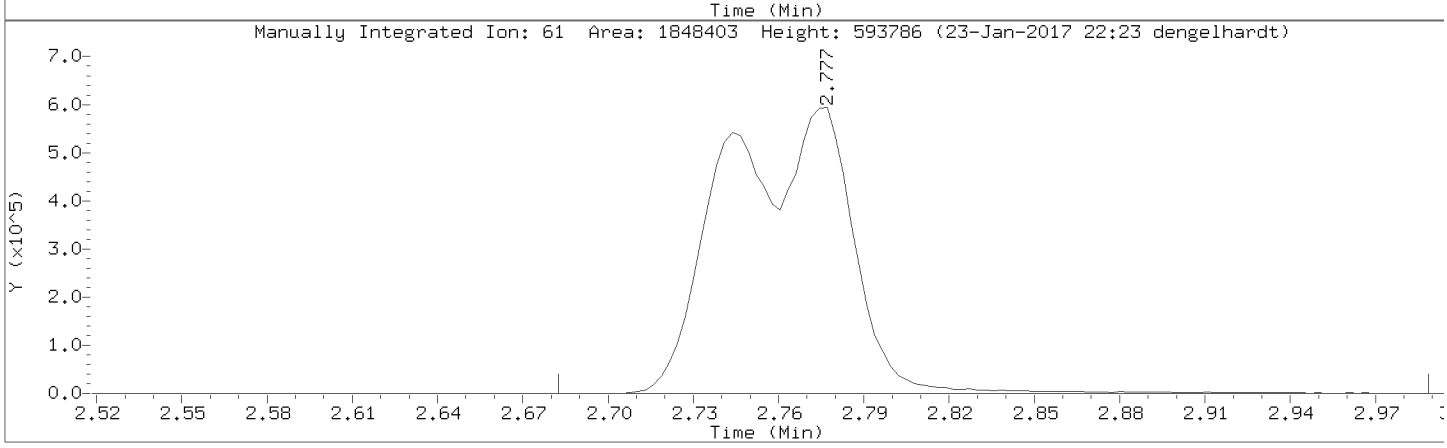
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,2-Dichloroethene (cis) Review Code: NI
CAS Number: 156-59-2









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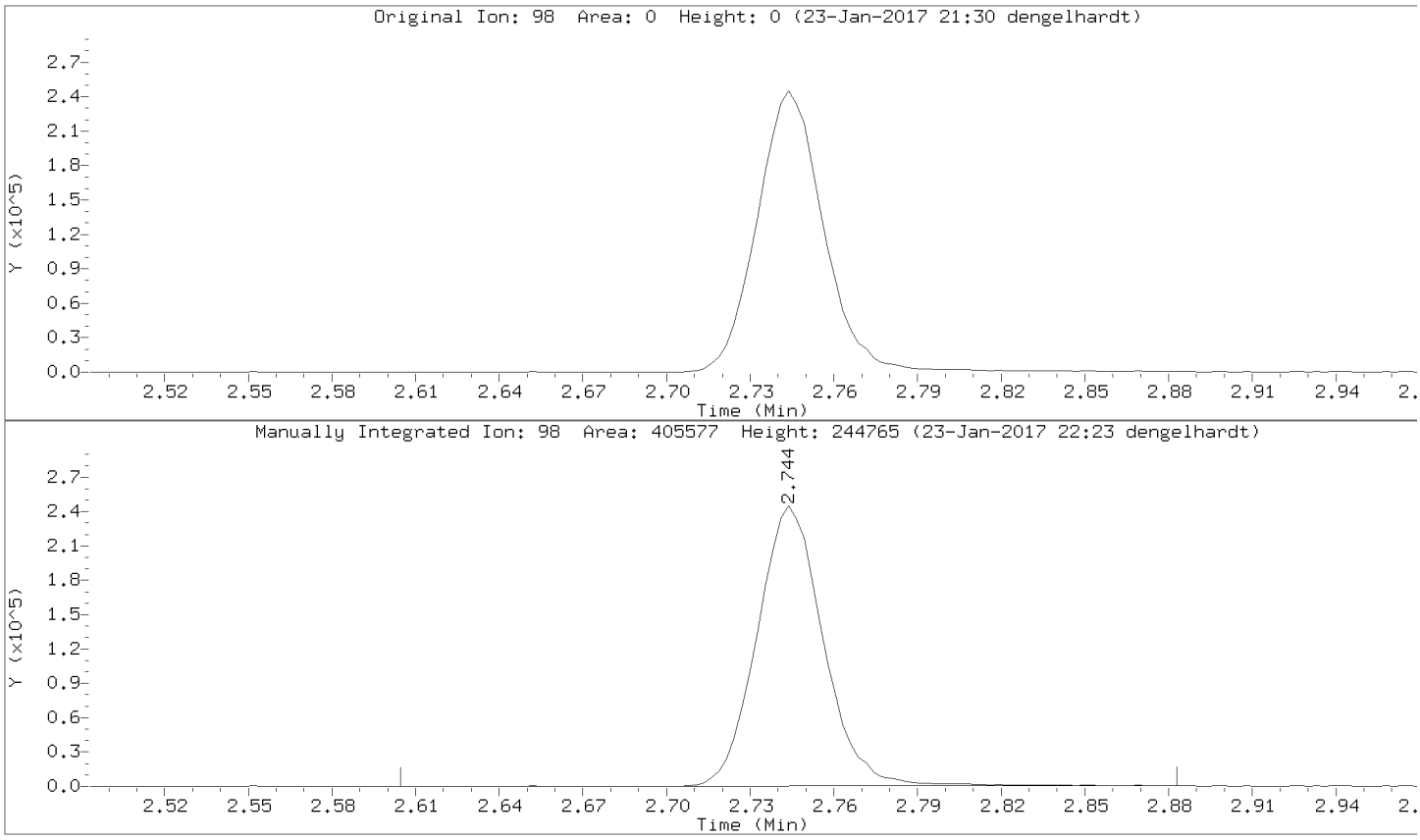
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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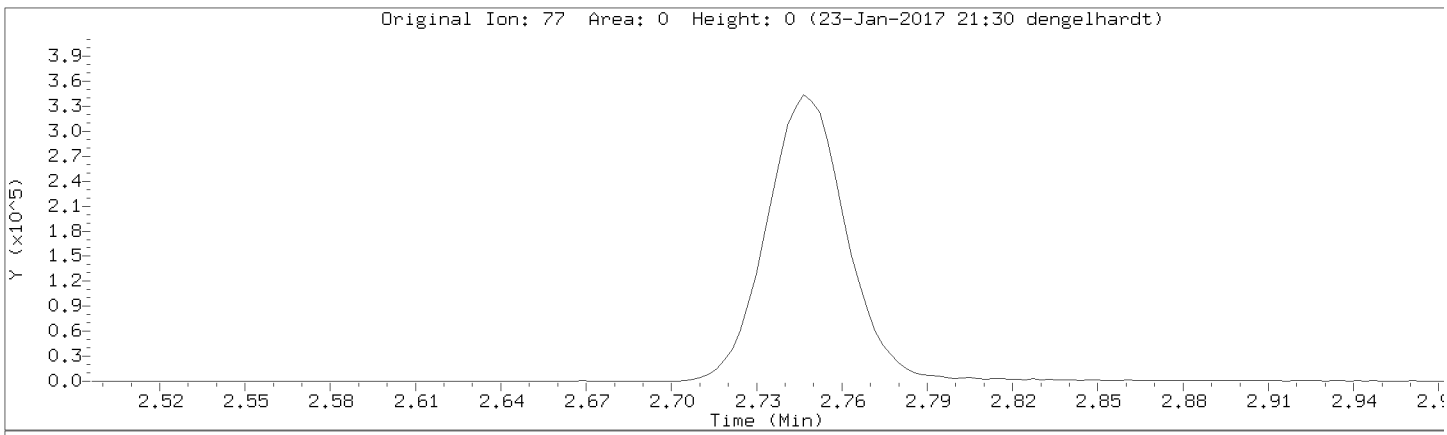
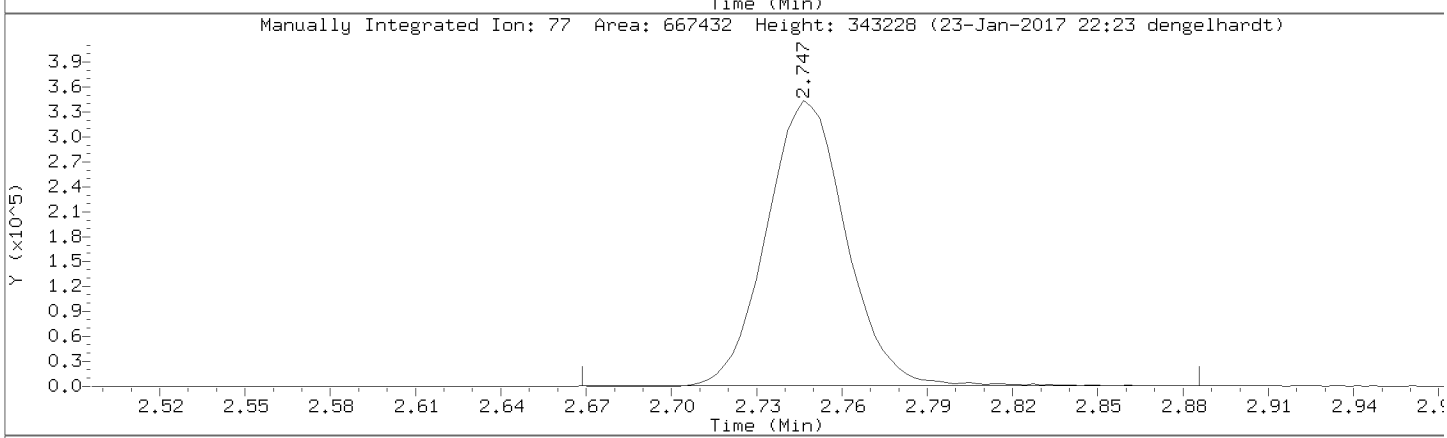
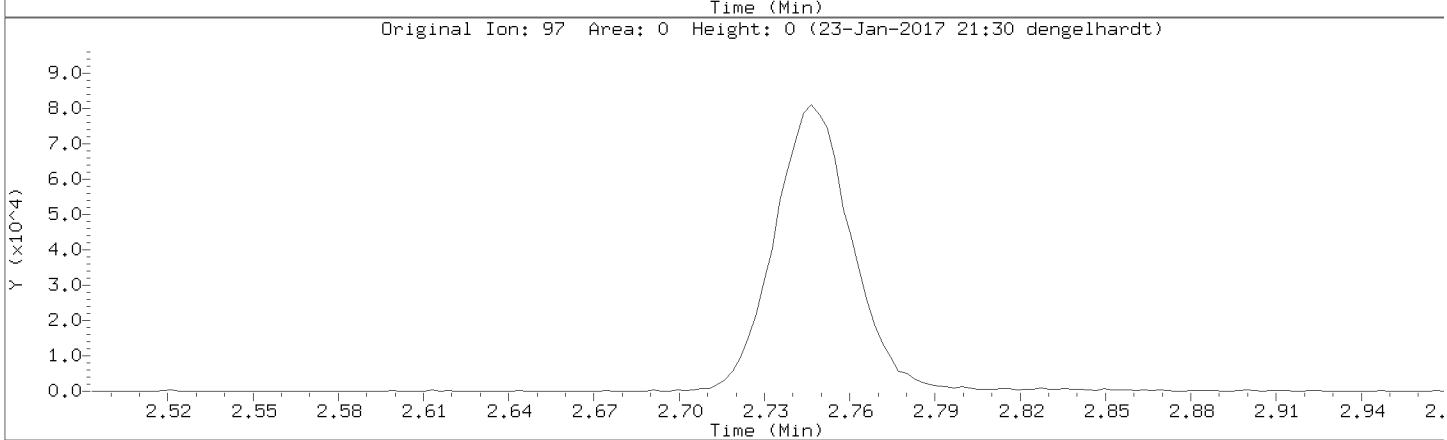
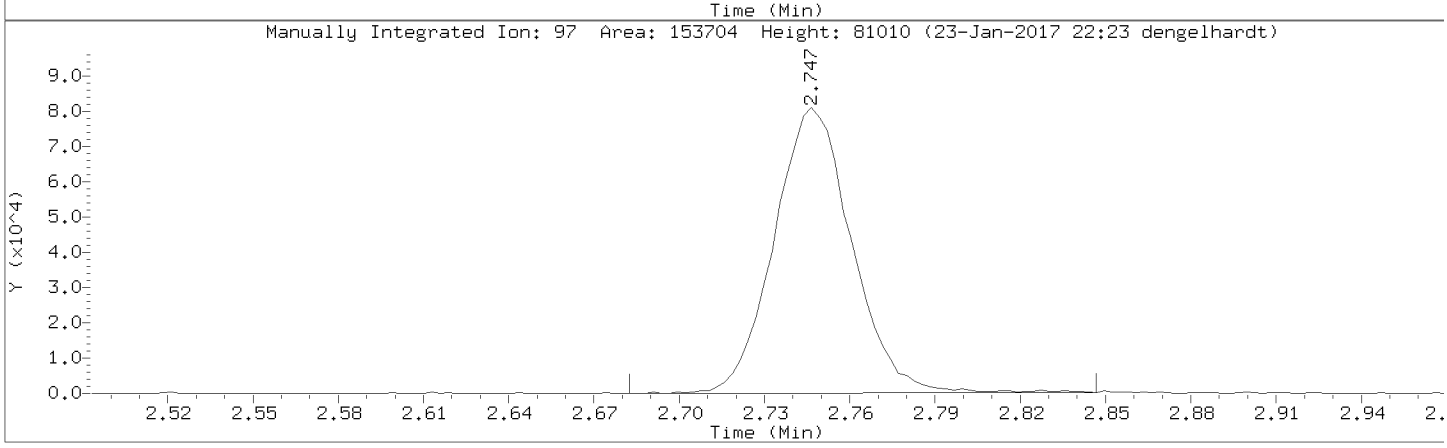
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7









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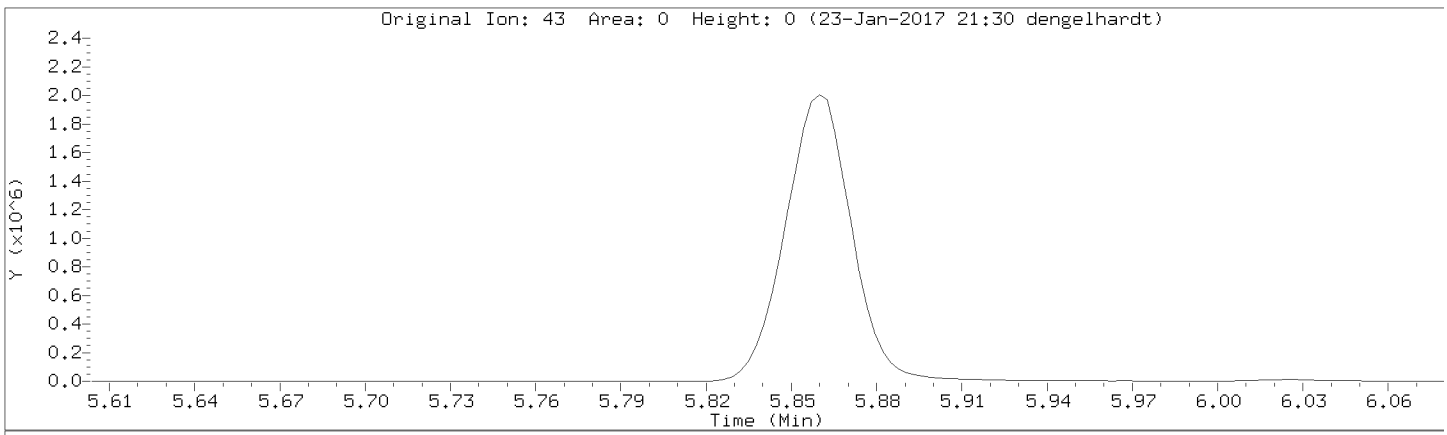
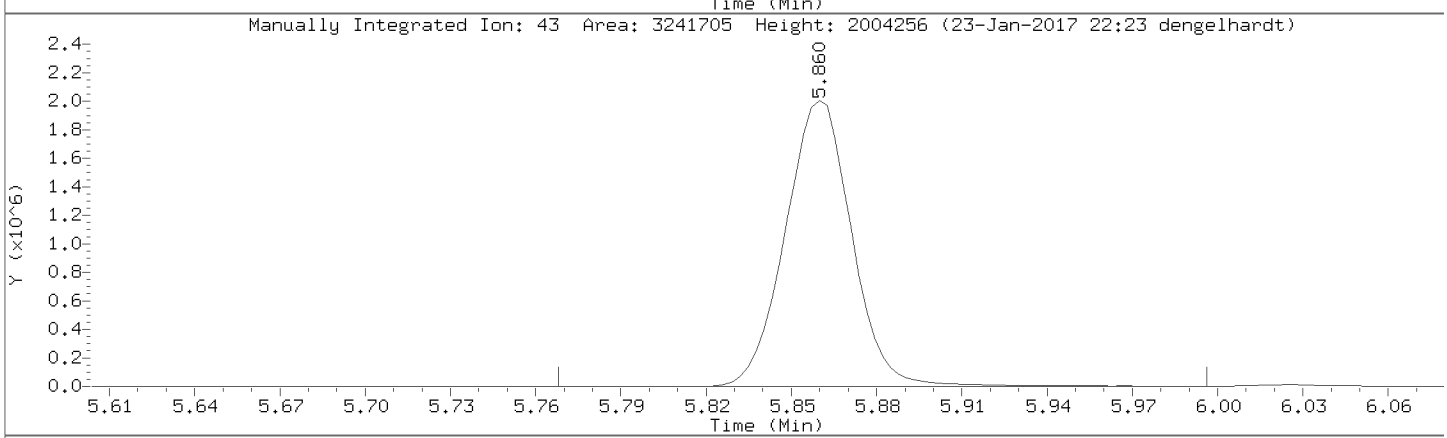
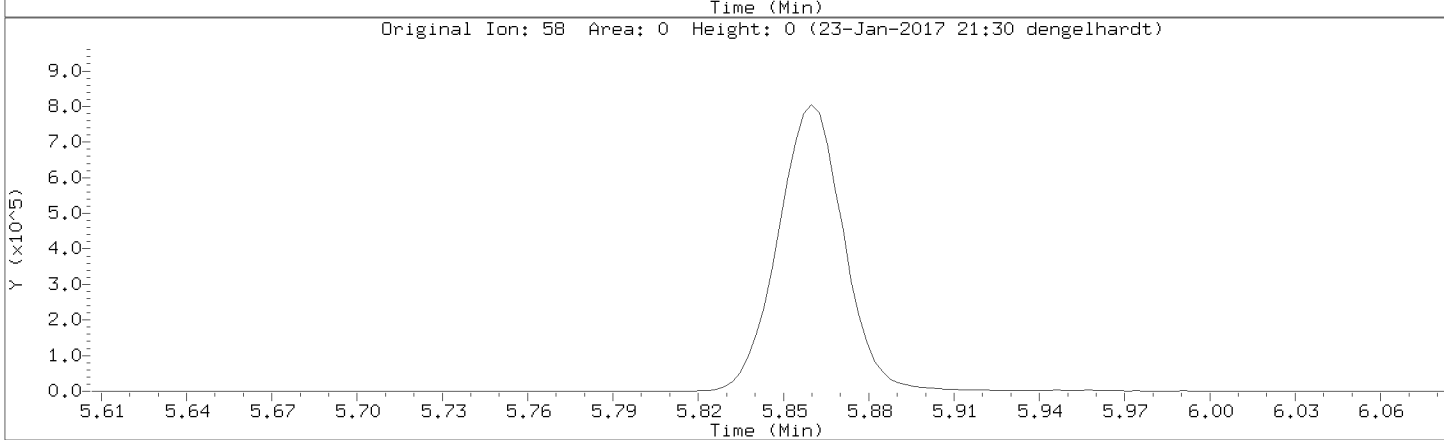
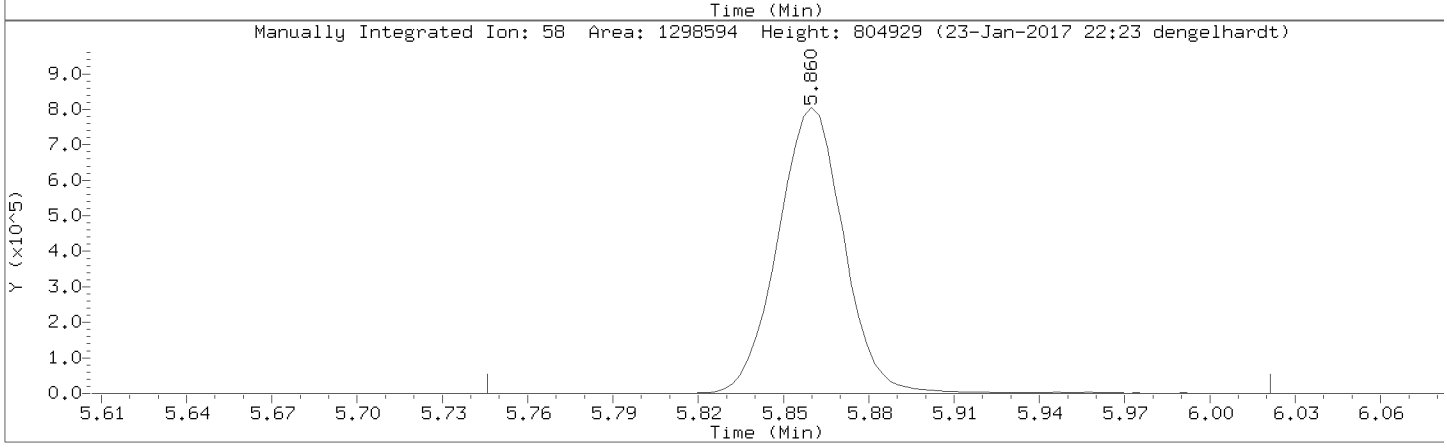
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 4-Methyl-2-Pentanone Review Code: NI
CAS Number: 108-10-1









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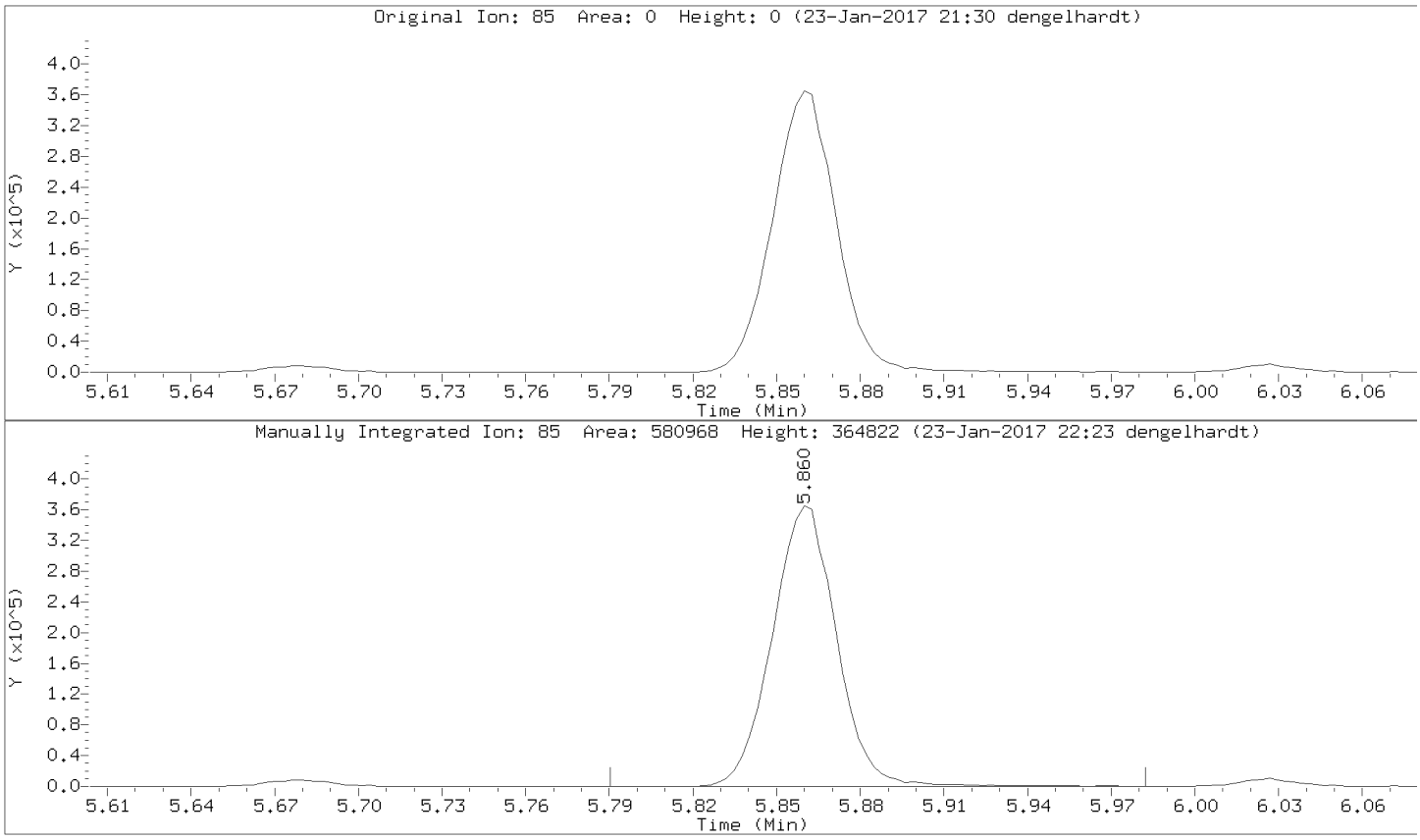
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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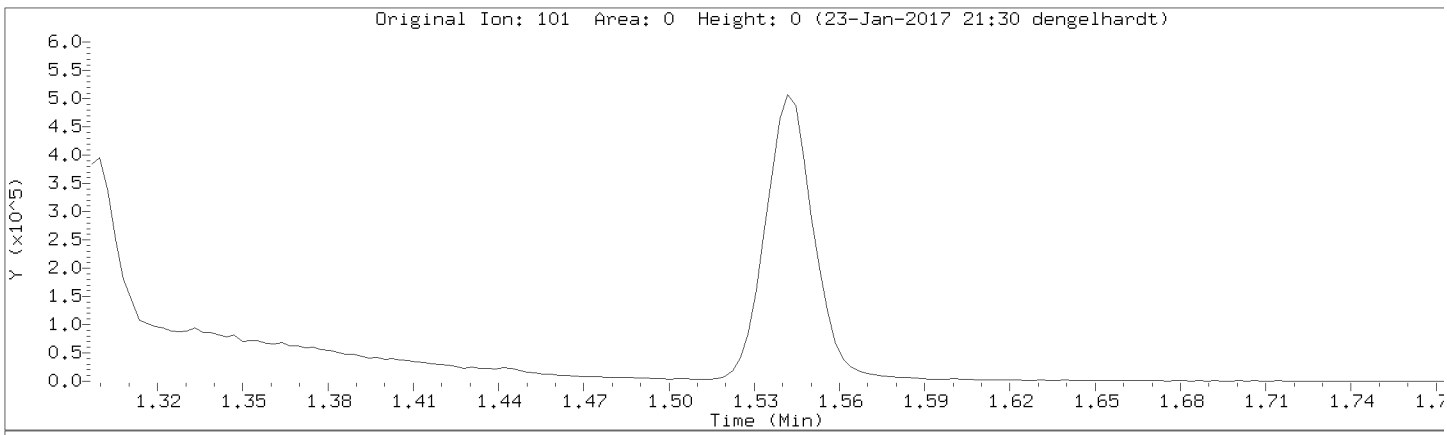
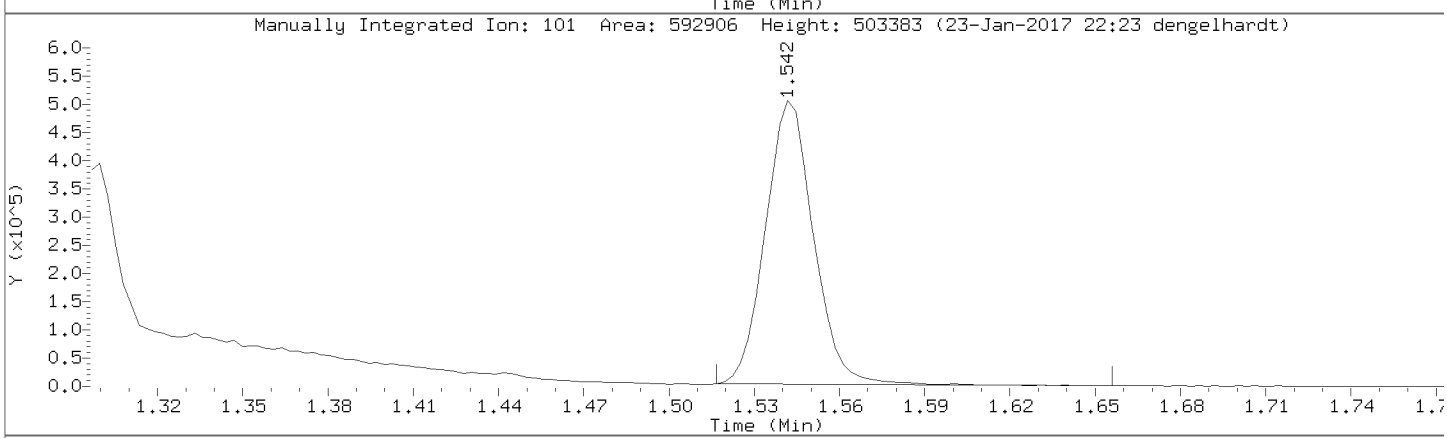
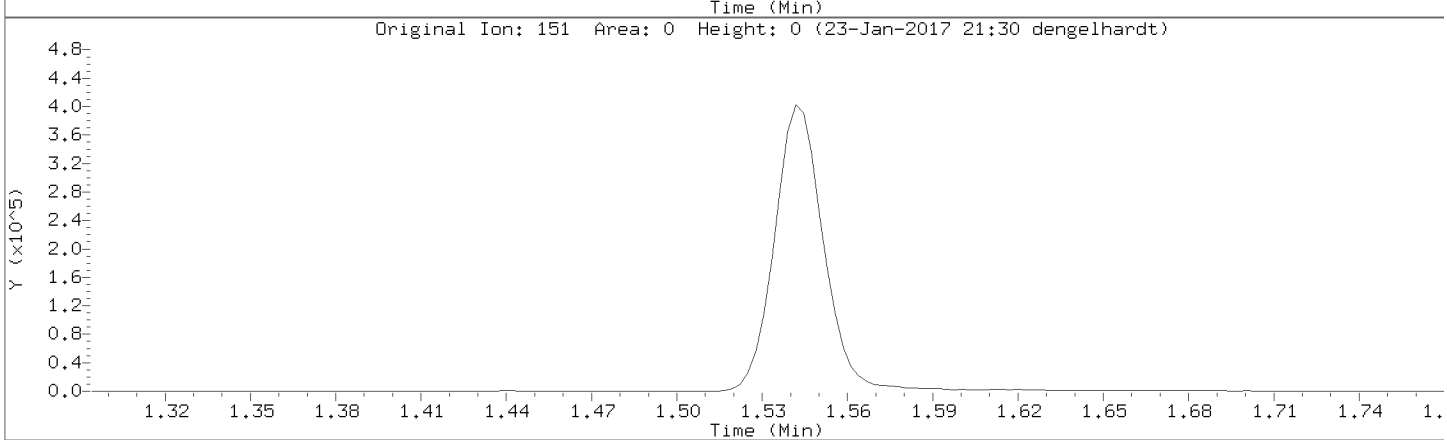
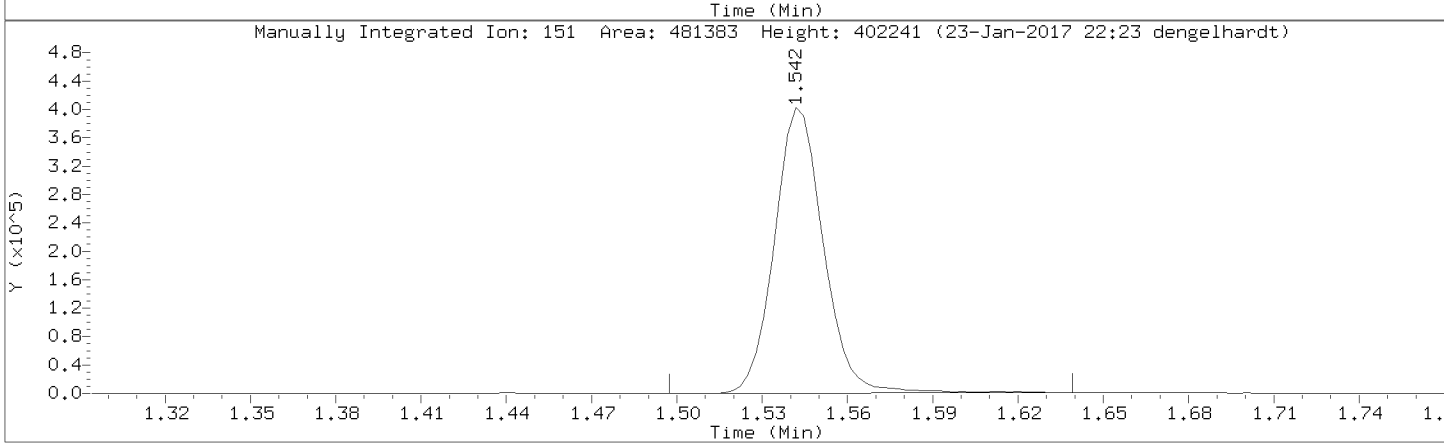
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,1,2trichlorotrifluoroethane Review Code: NI
CAS Number: 76-13-1



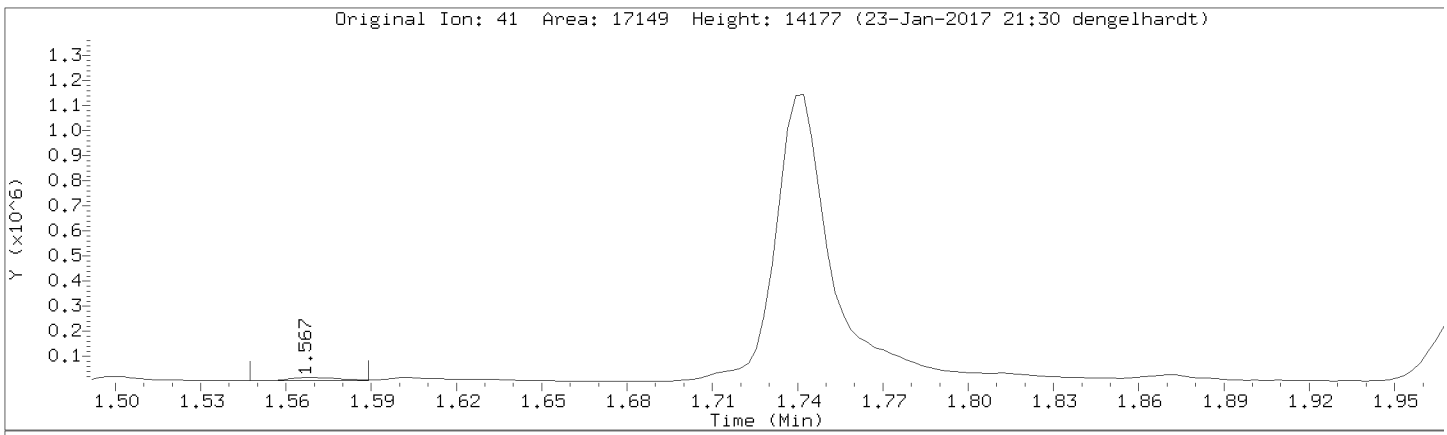


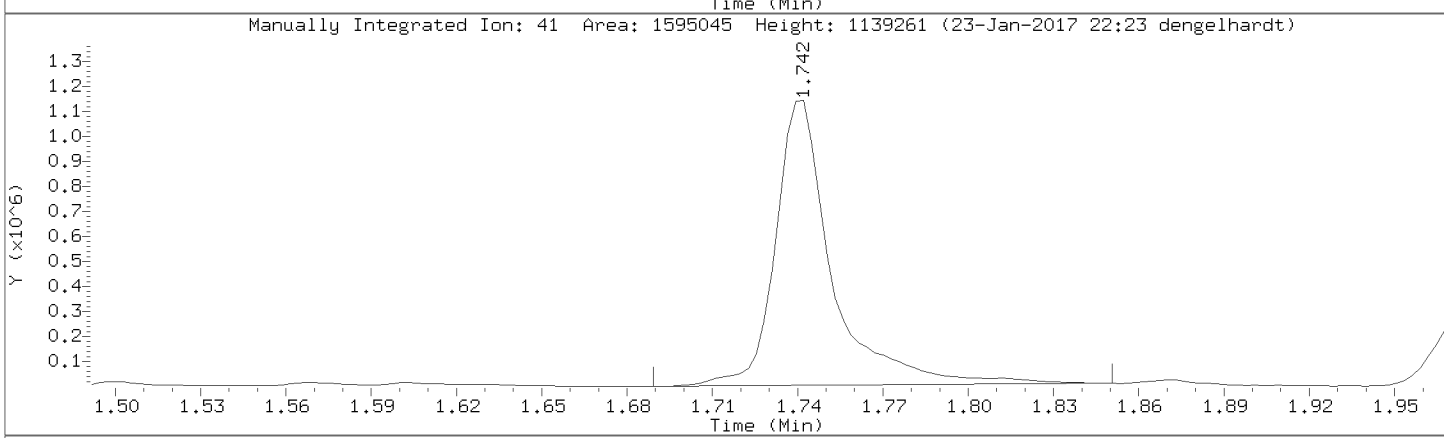


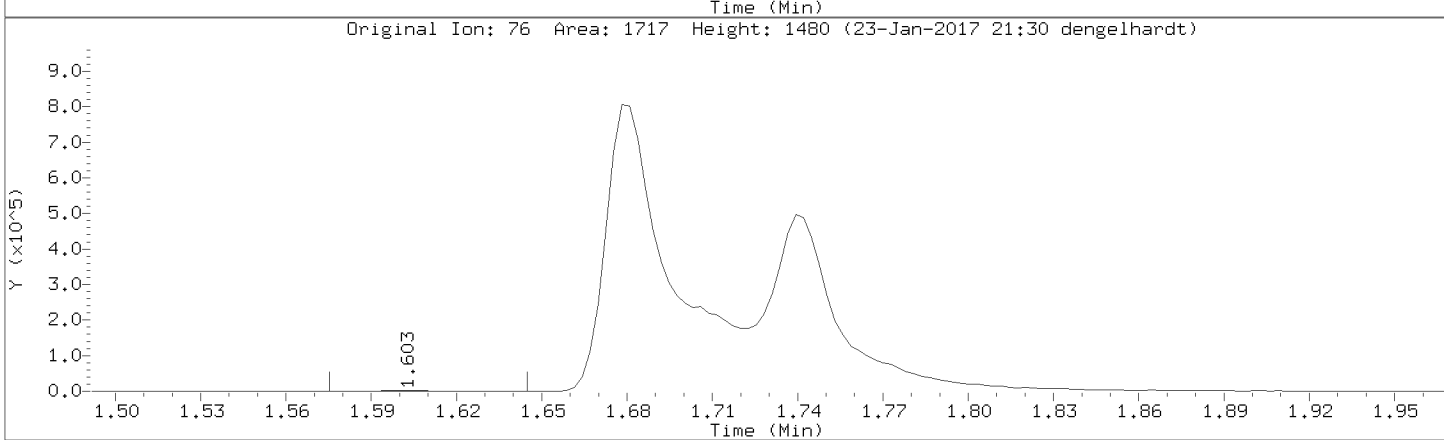


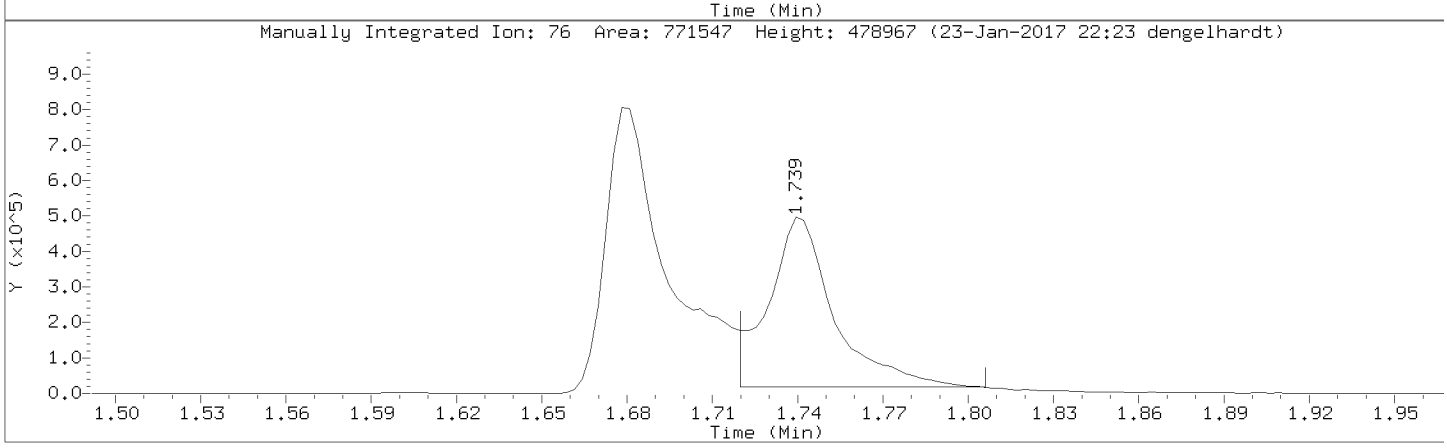
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: allyl chloride Review Code: NI
CAS Number: 107-05-1



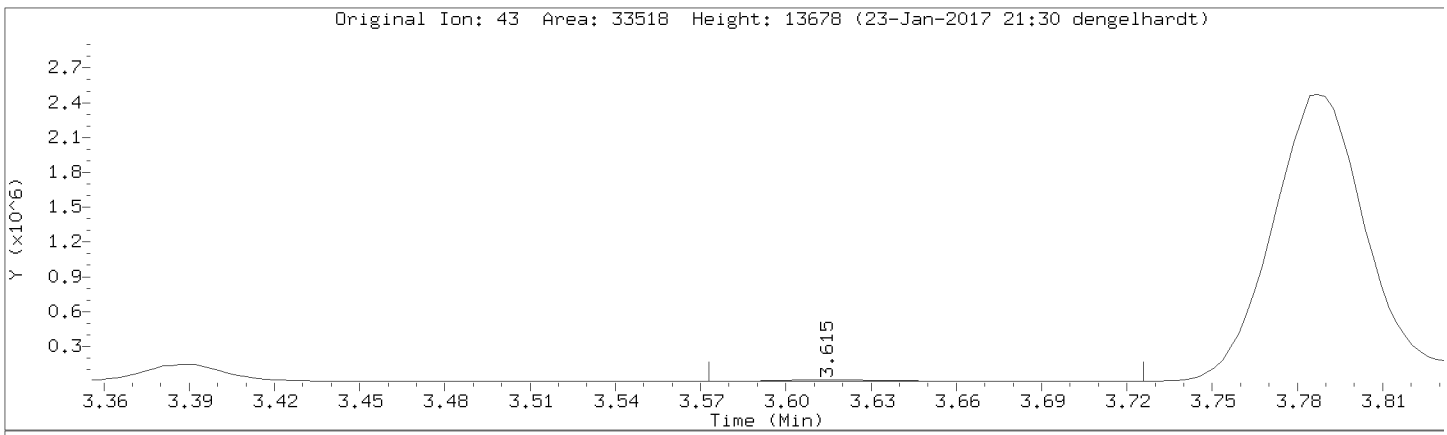


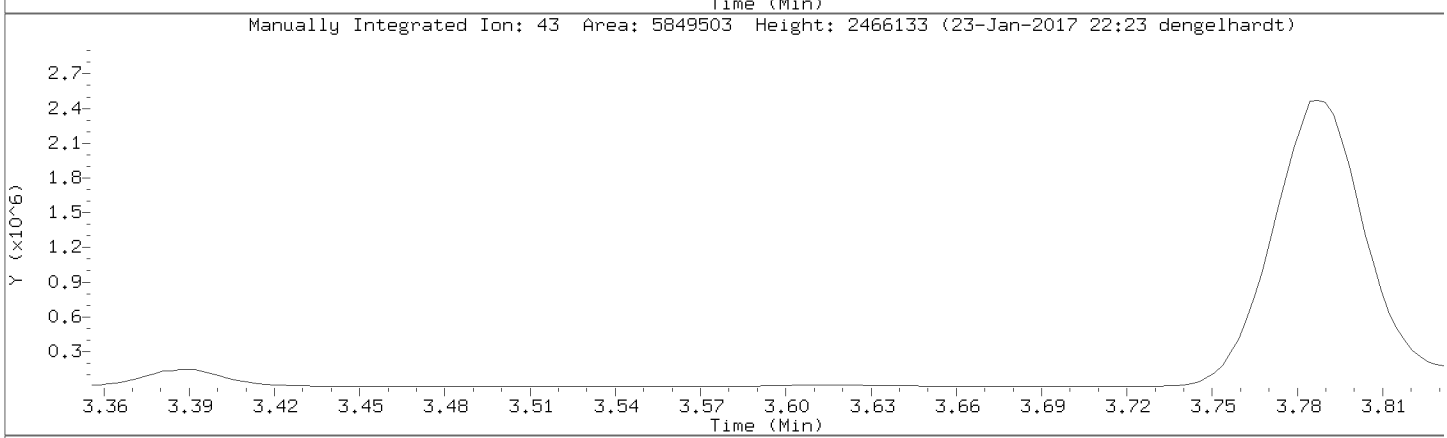


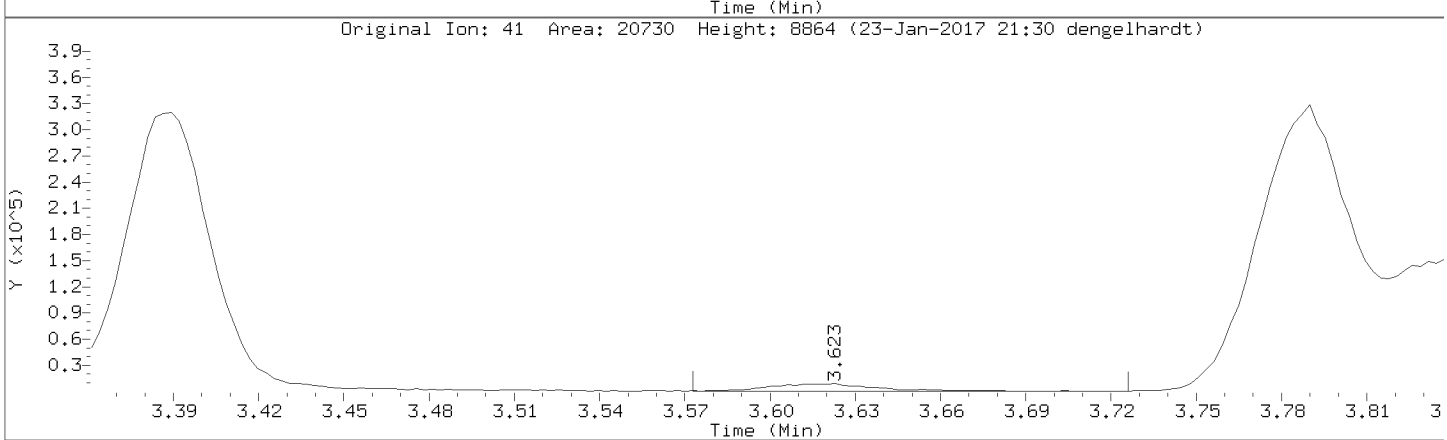


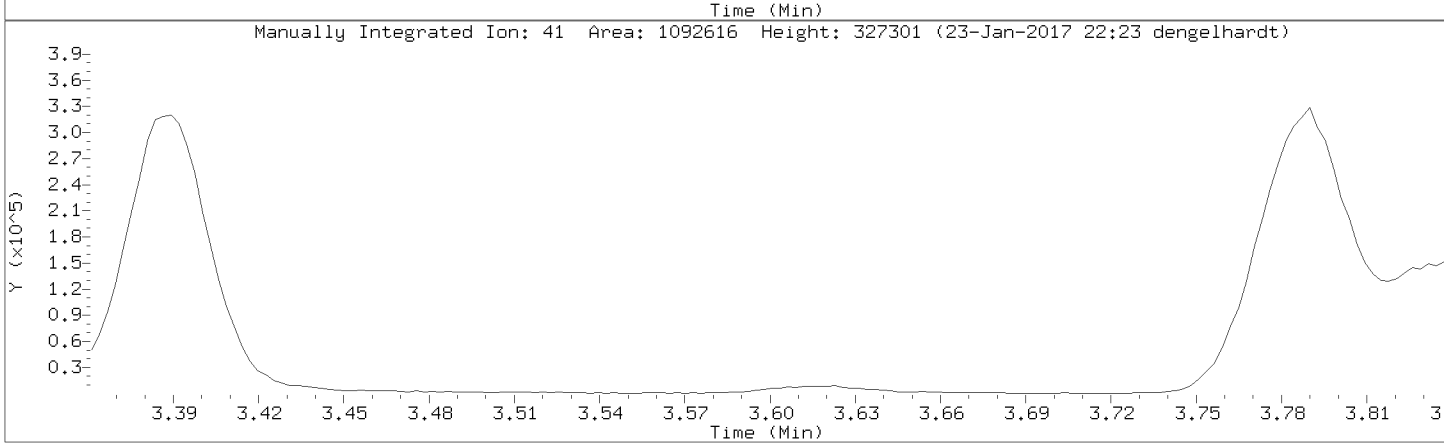
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Isobutyl alcohol Review Code: WP
CAS Number: 78-83-1

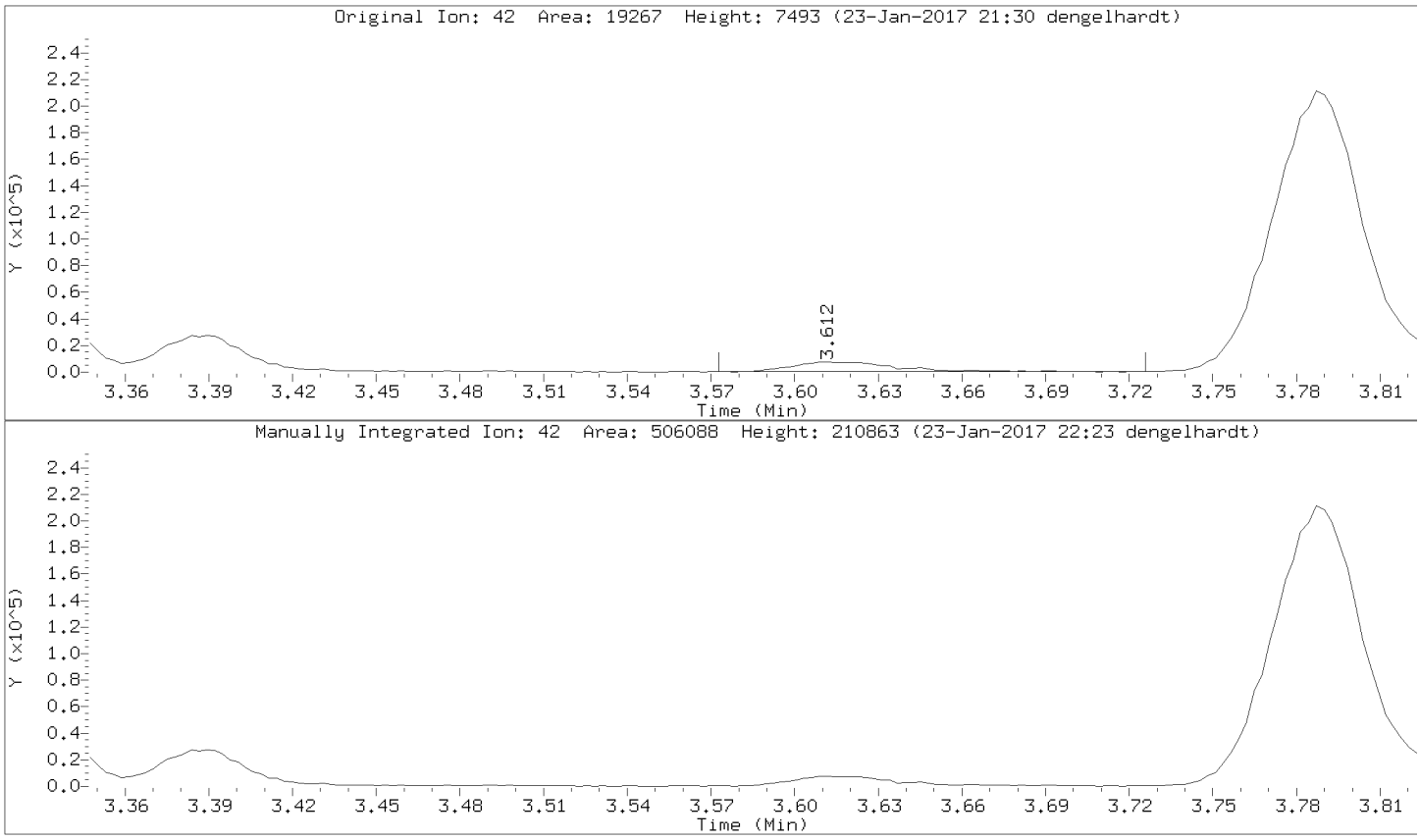






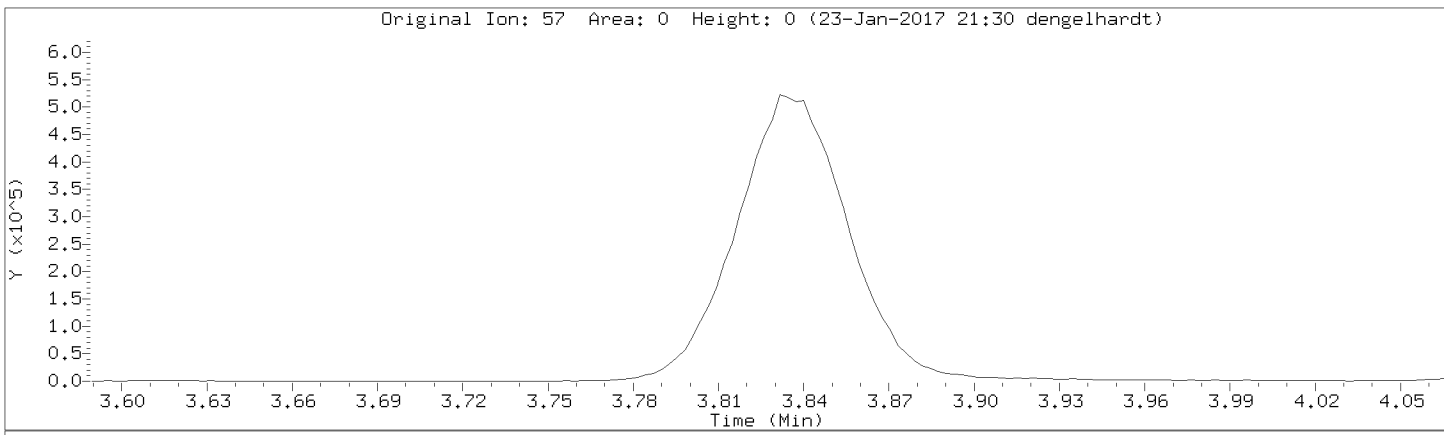


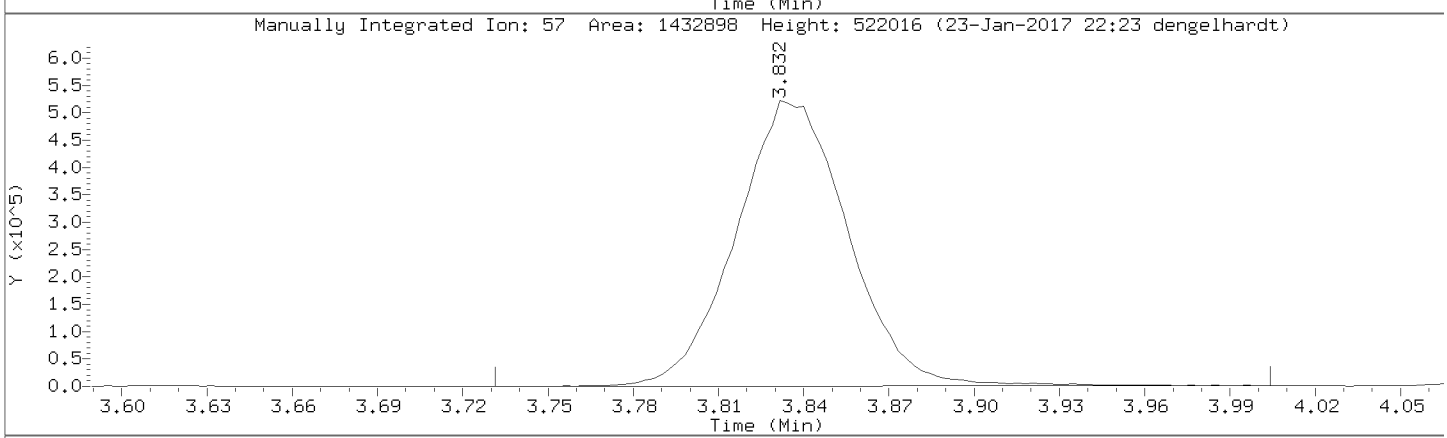
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

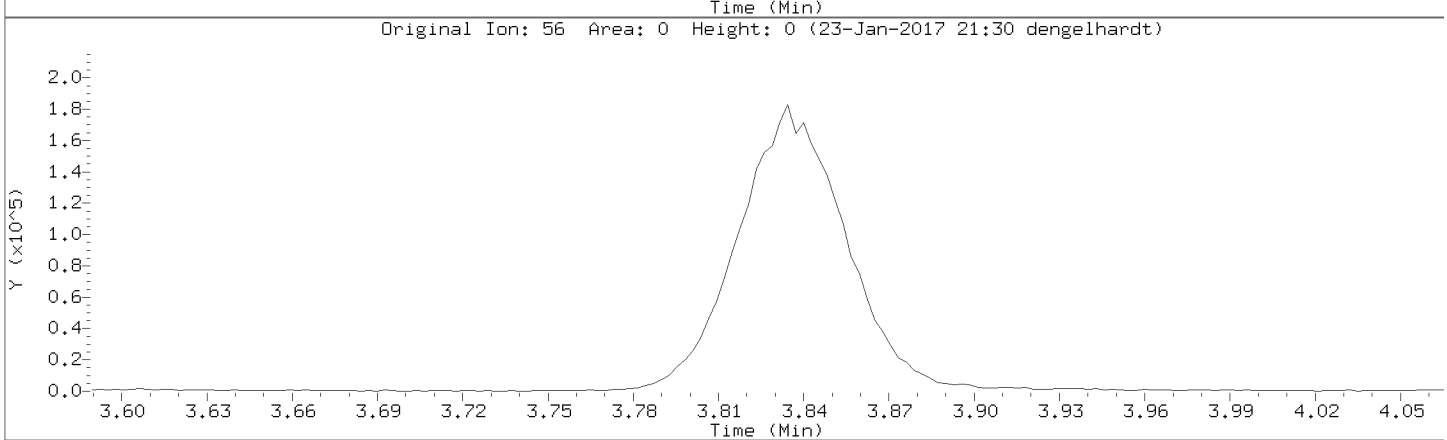


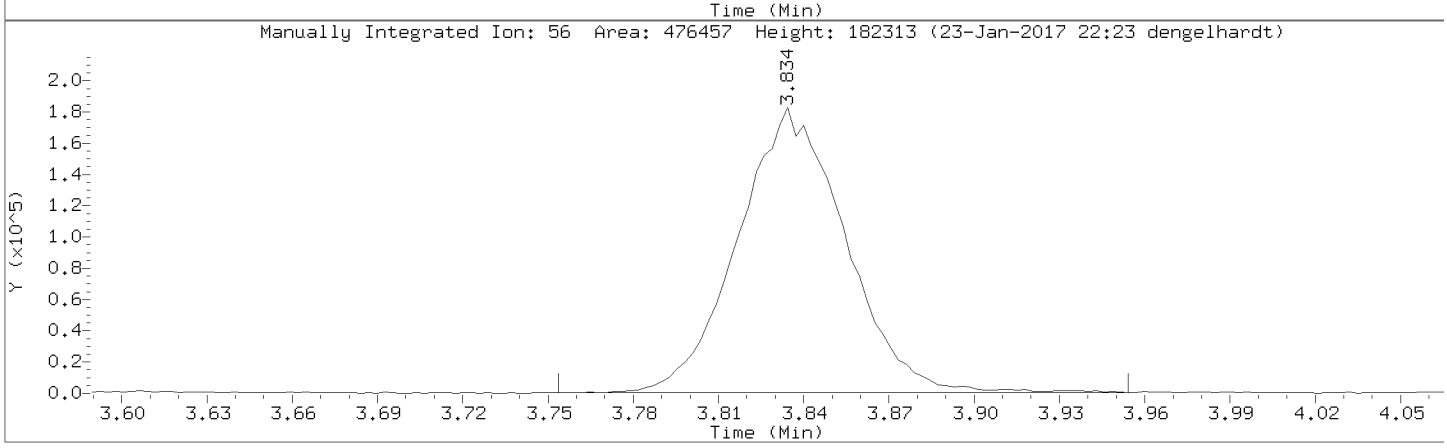
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 2,2,4-Trimethylpentane Review Code: NI
CAS Number: 540-84-1



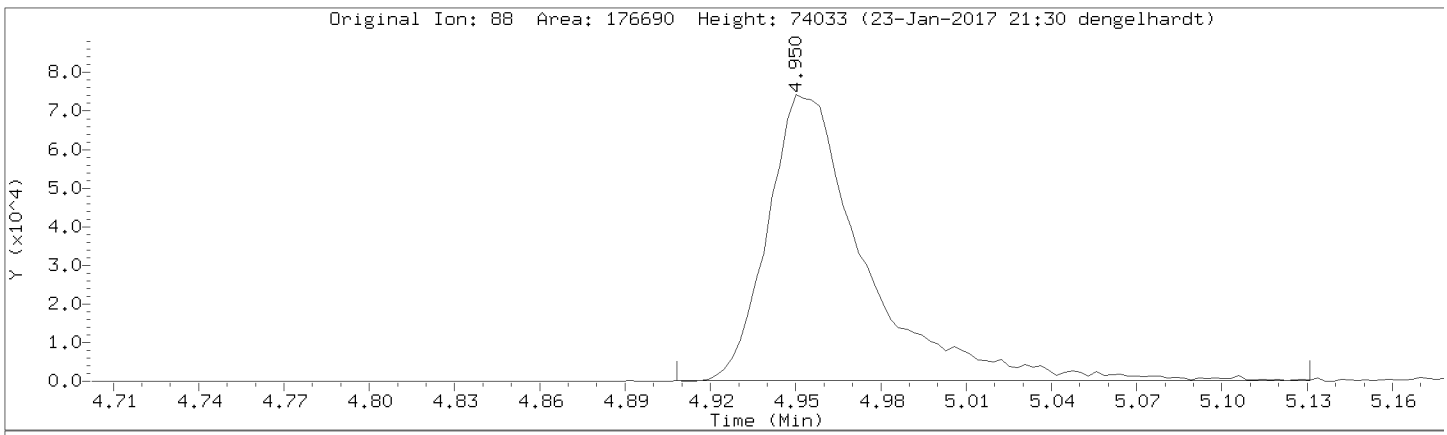


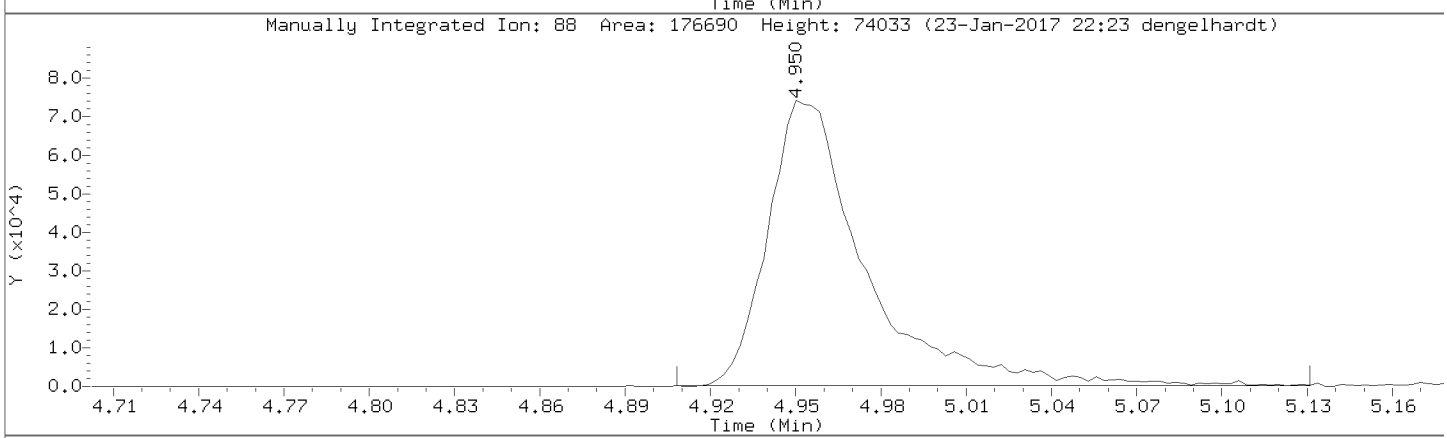


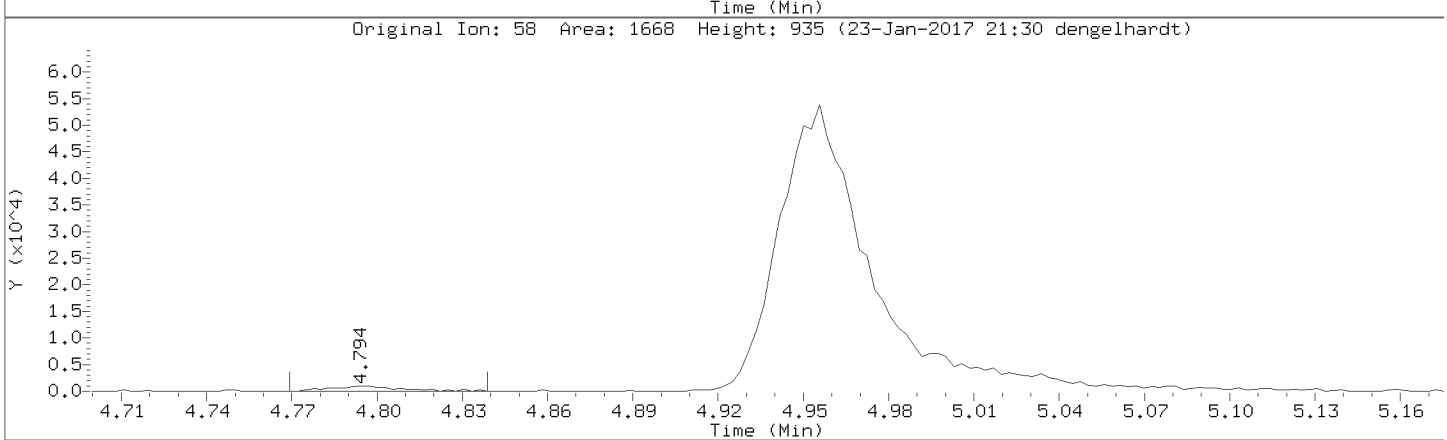


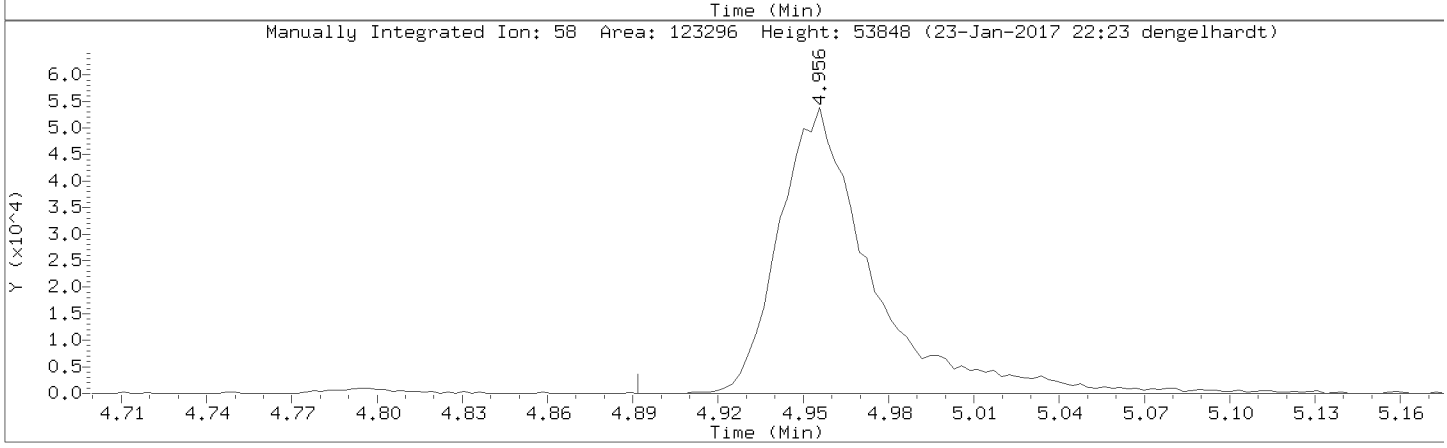
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: 1,4-Dioxane Review Code: WP
CAS Number:



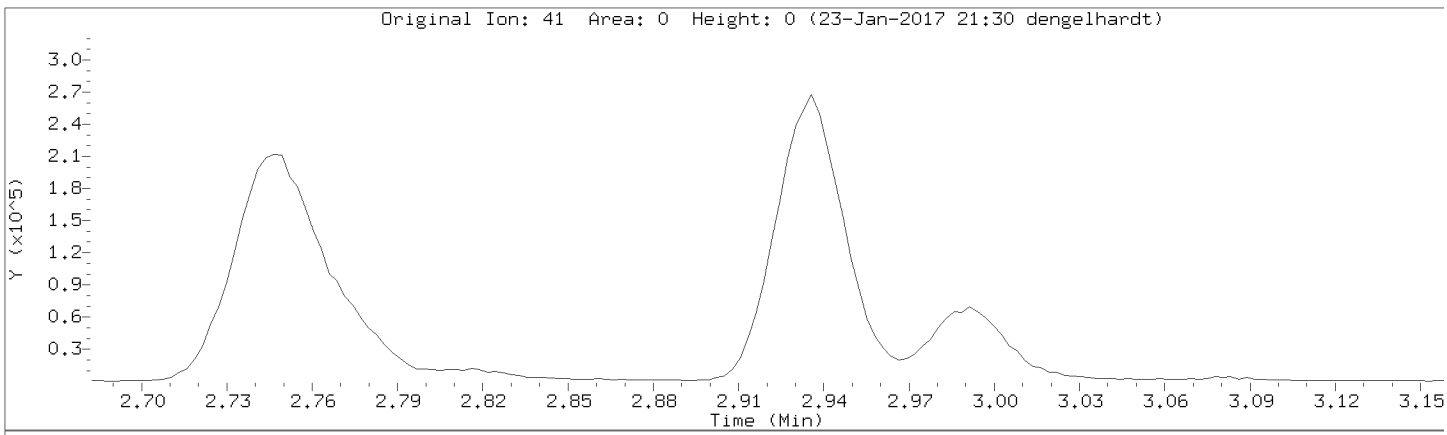


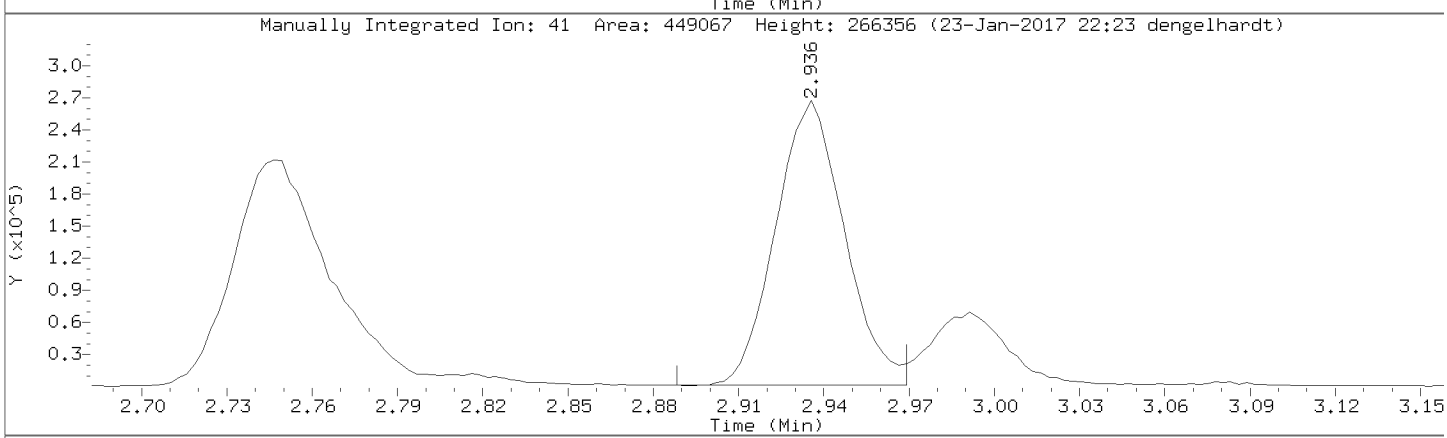


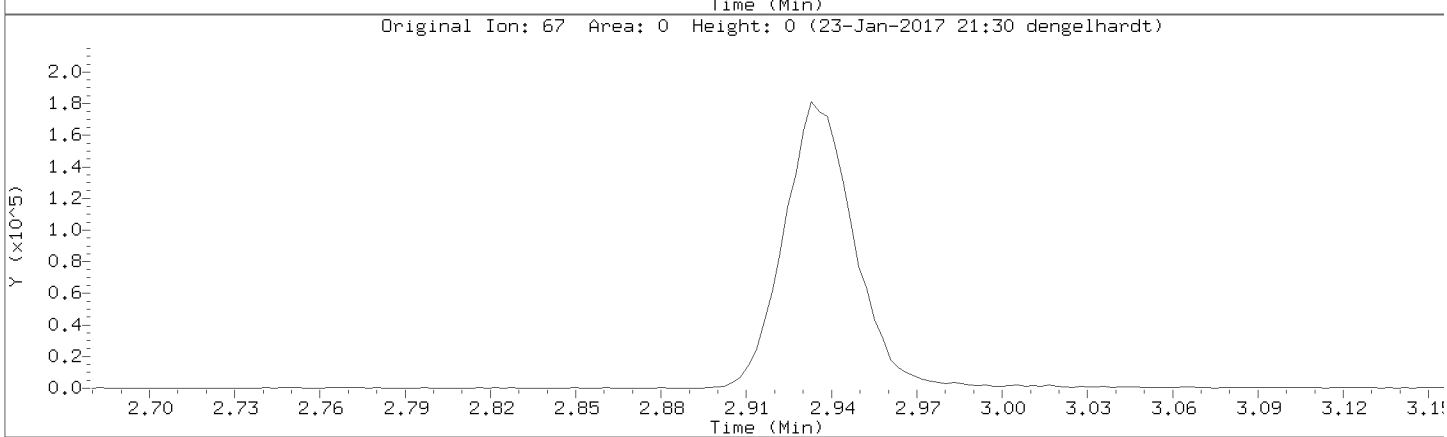


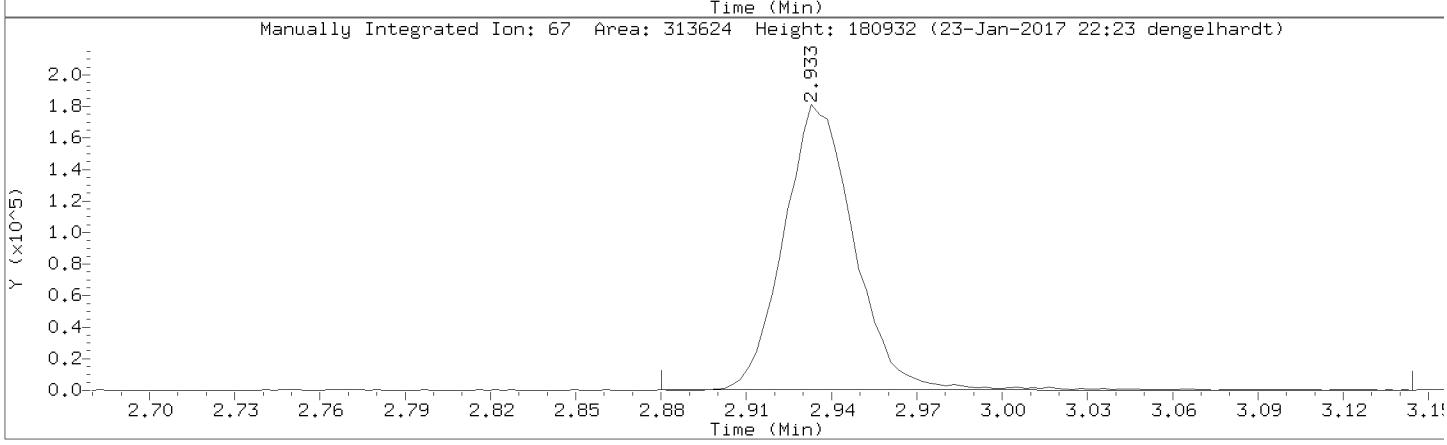
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7

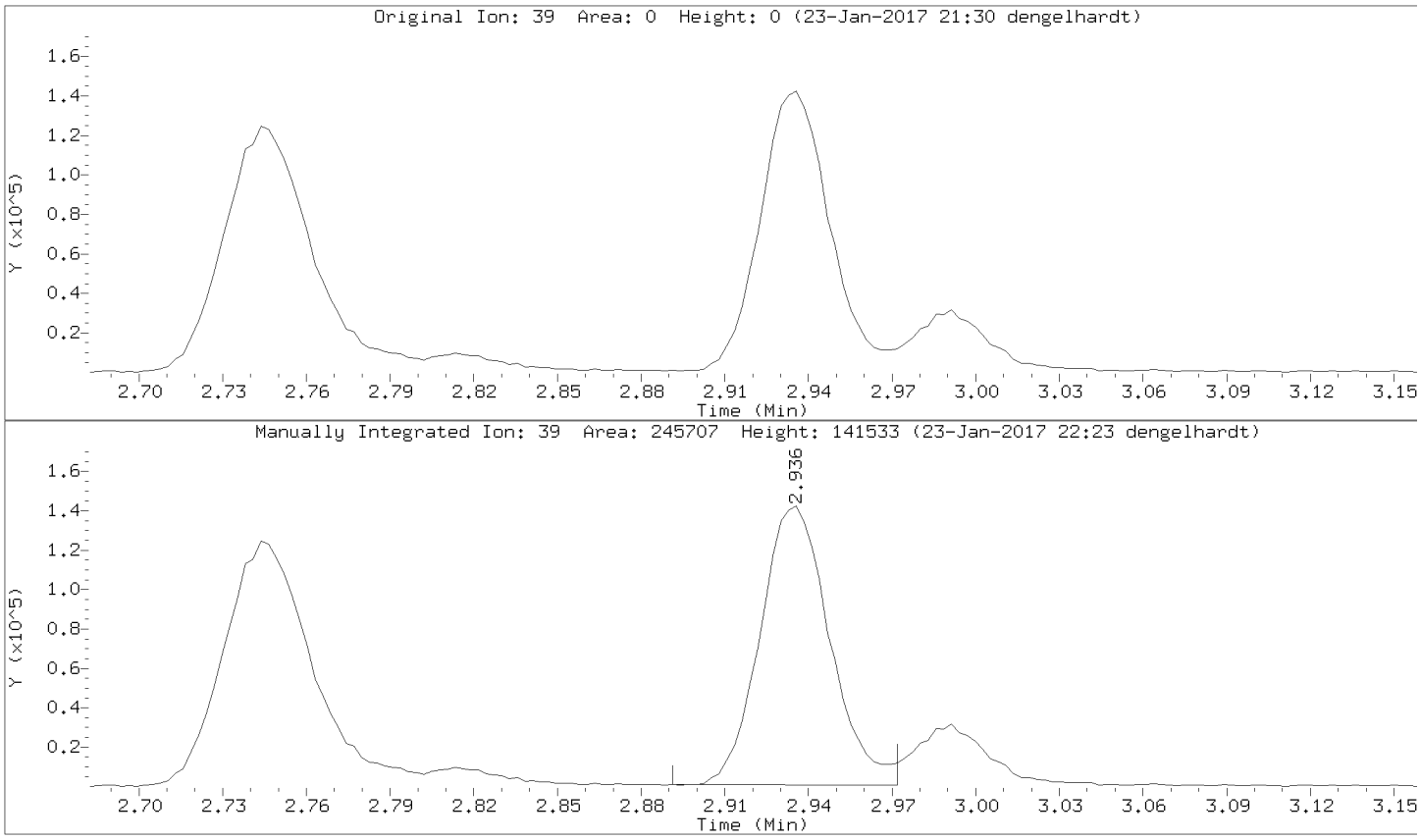






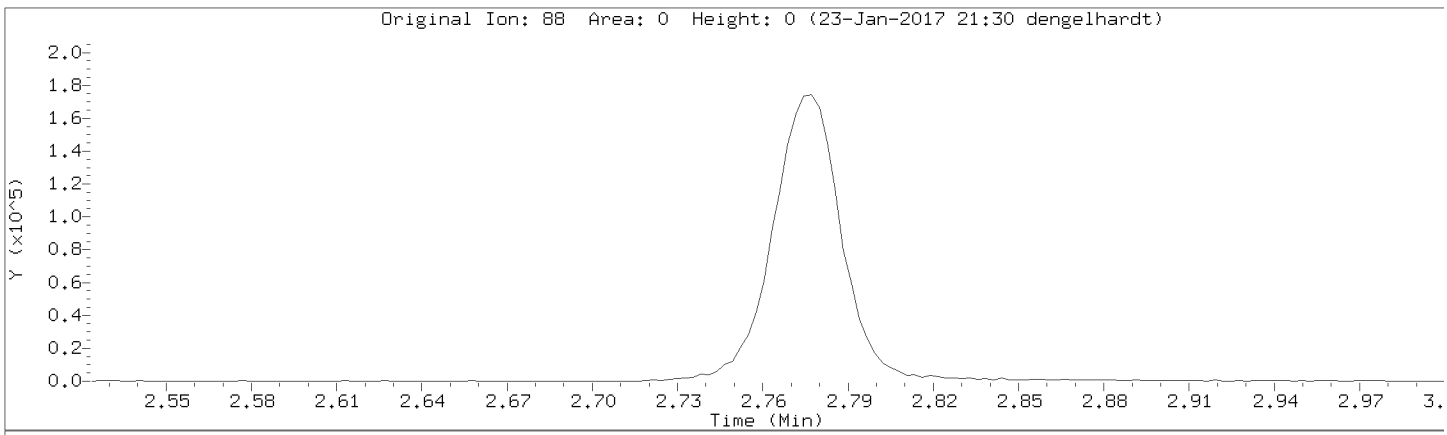


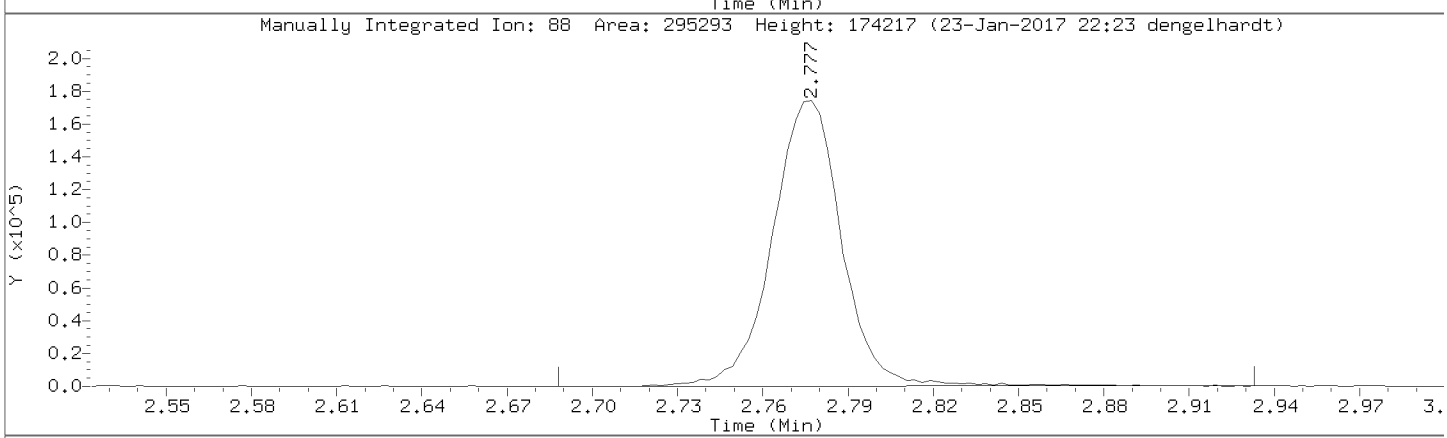
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

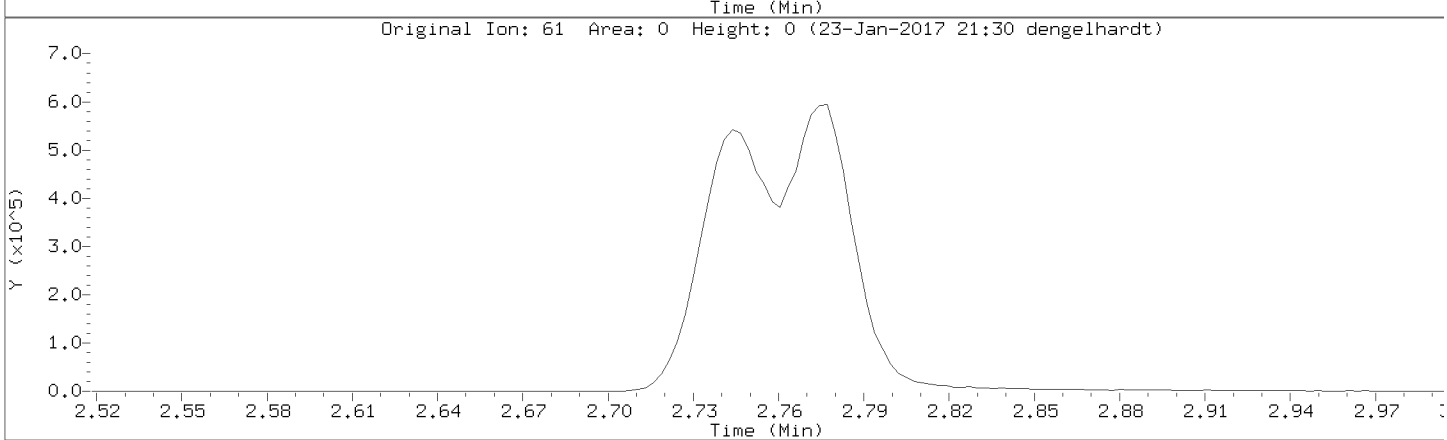


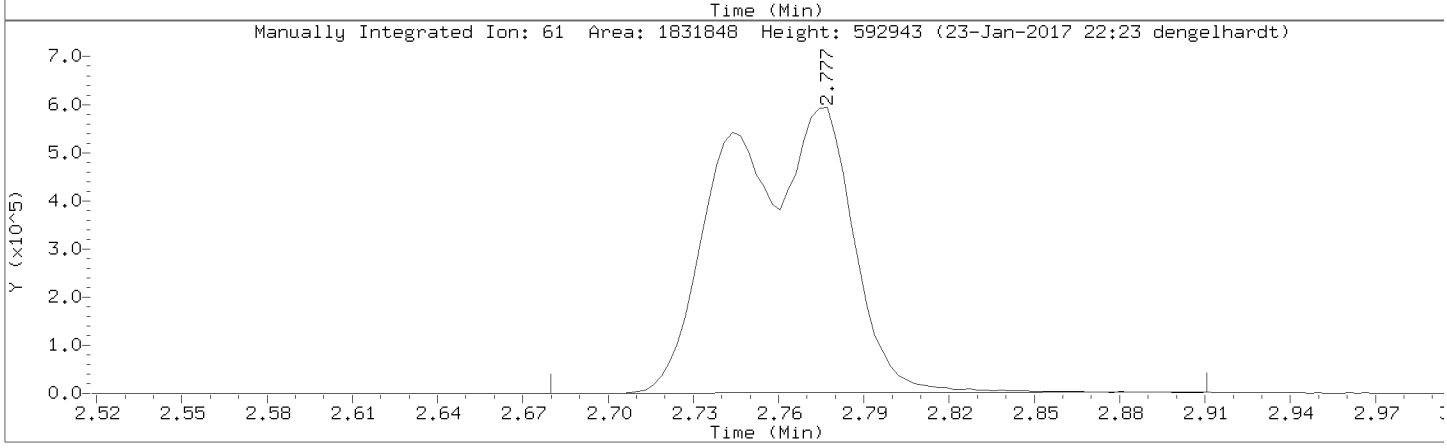
Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Ethyl acetate Review Code: NI
CAS Number: 141-78-6









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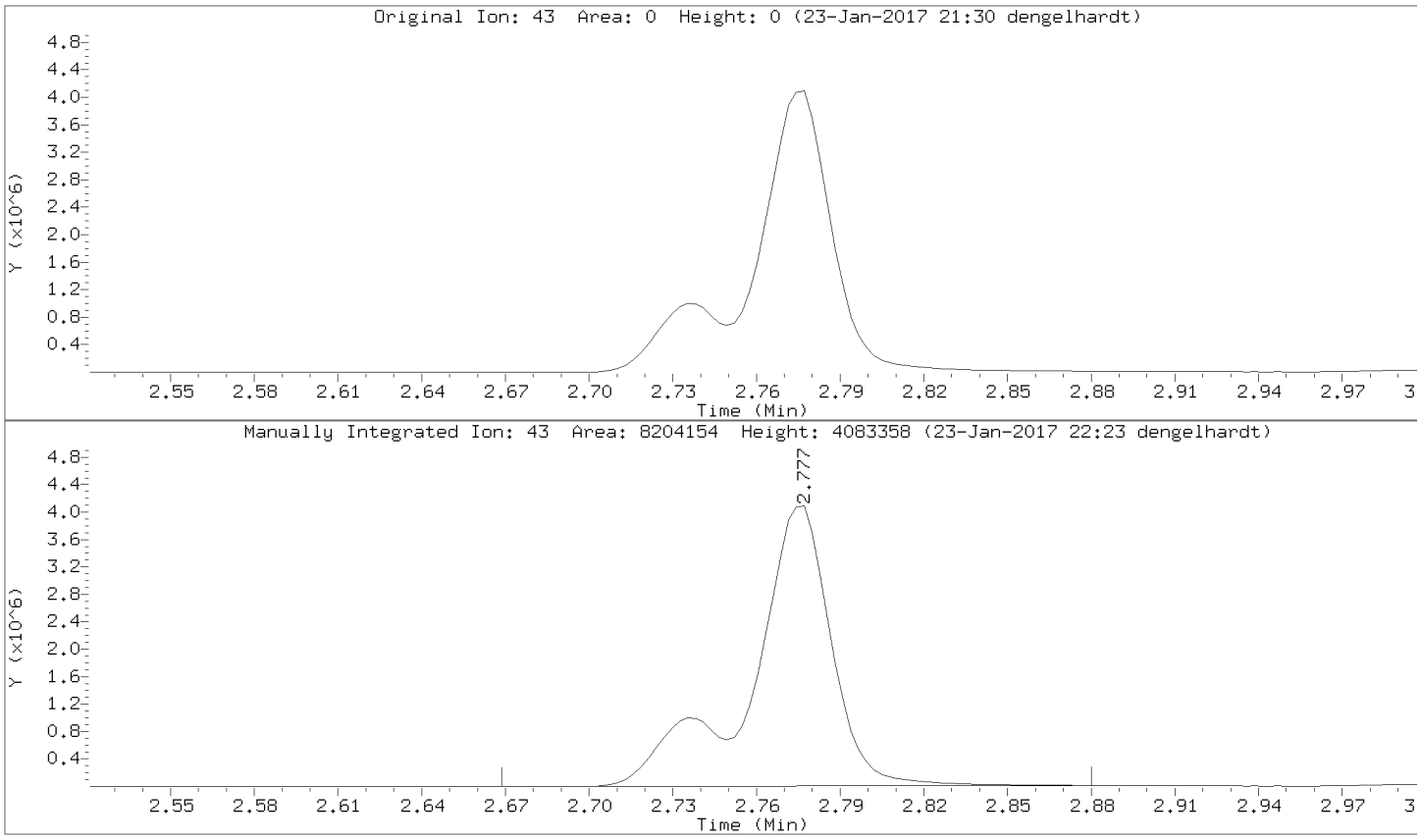
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



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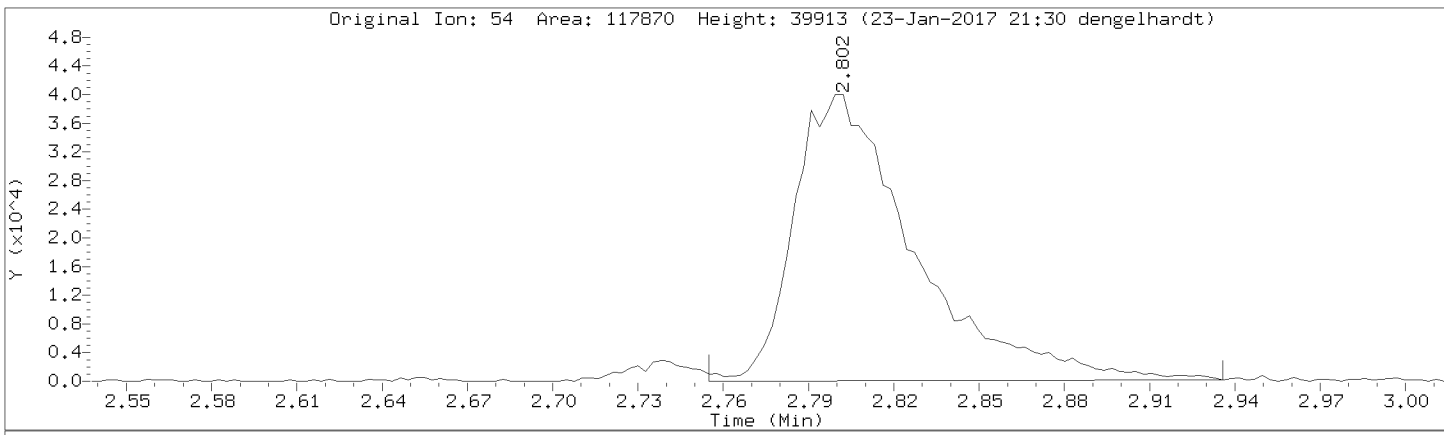
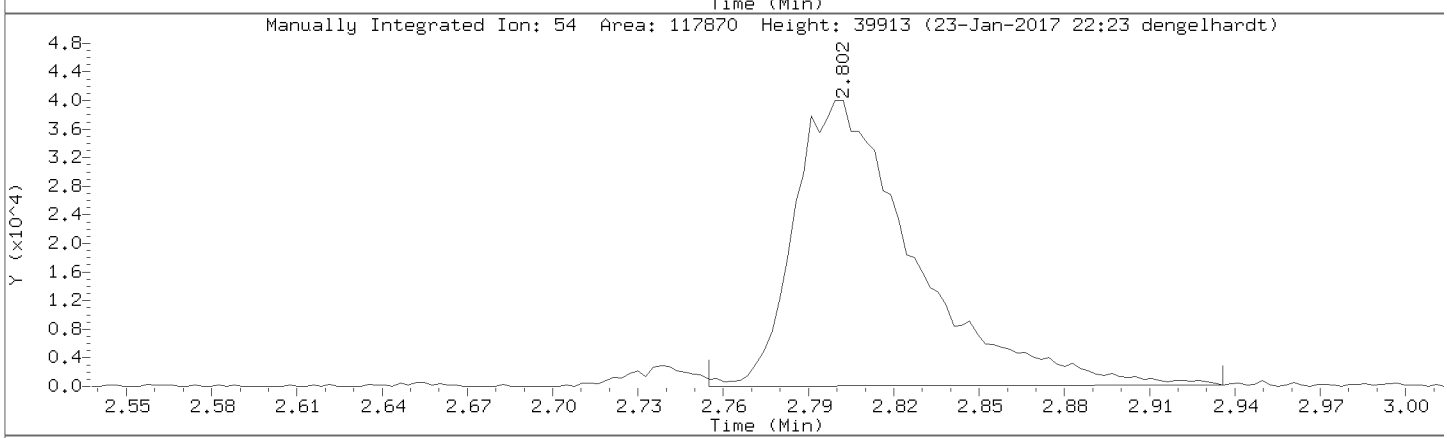
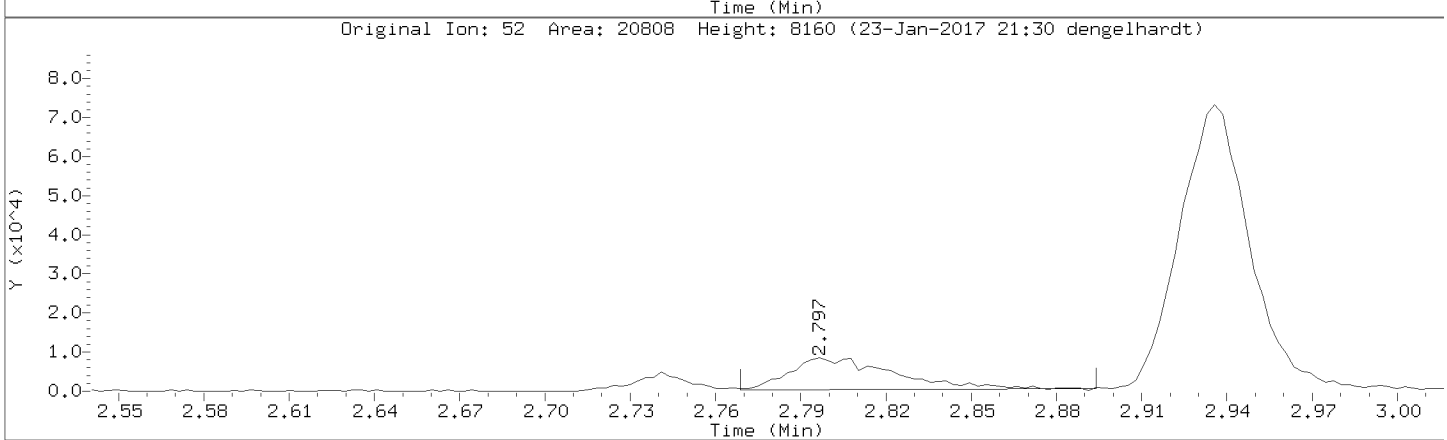
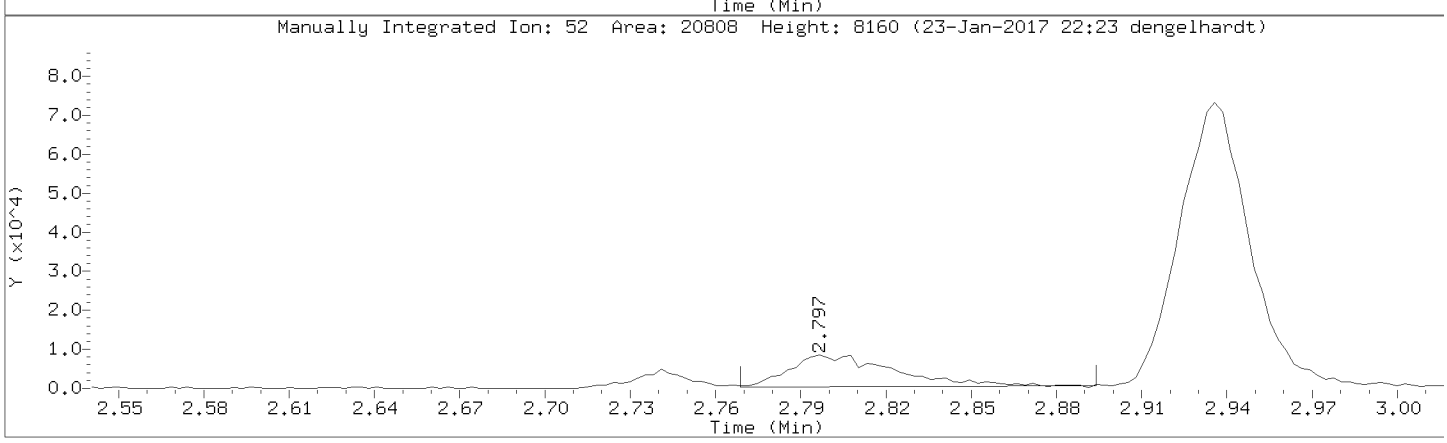
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

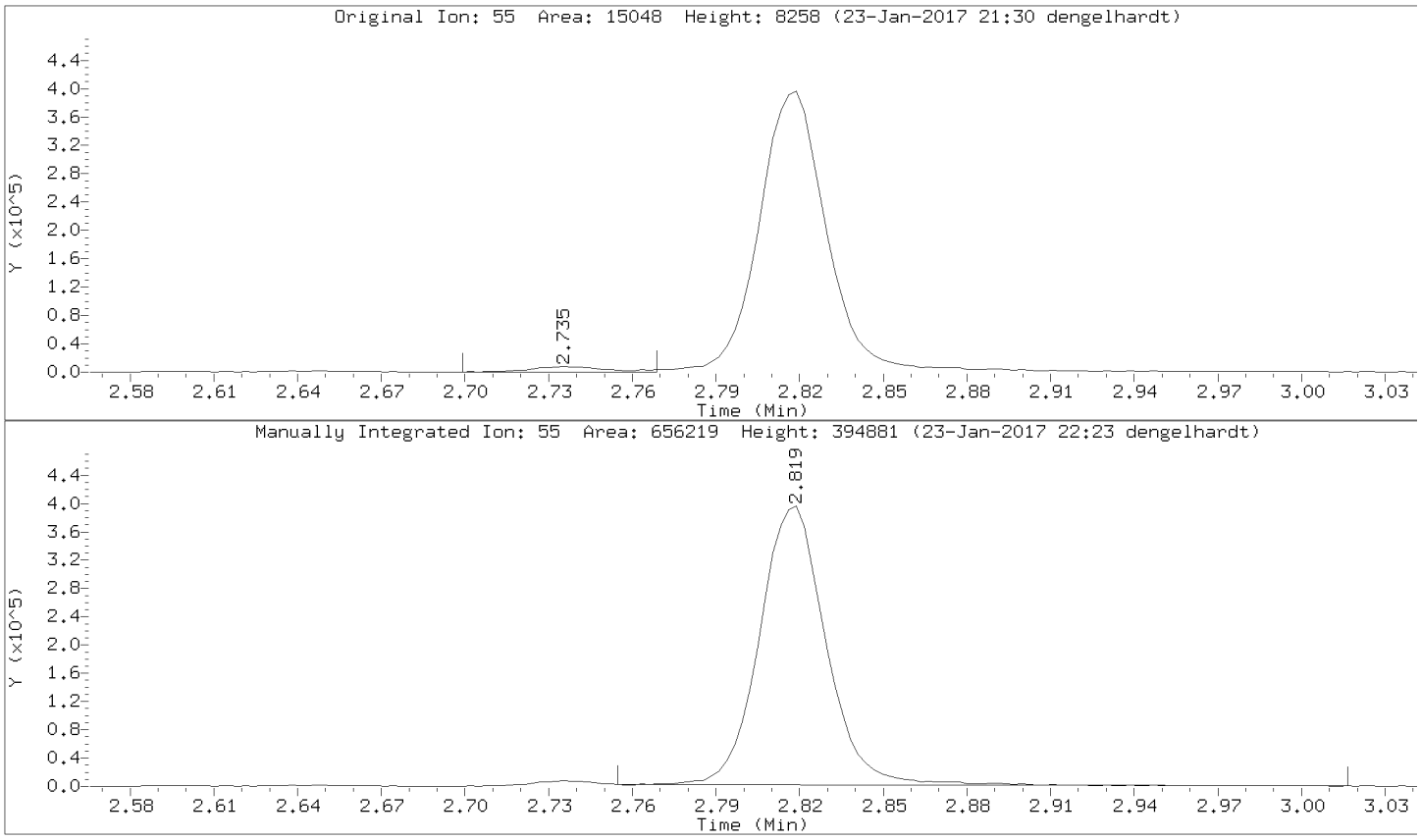






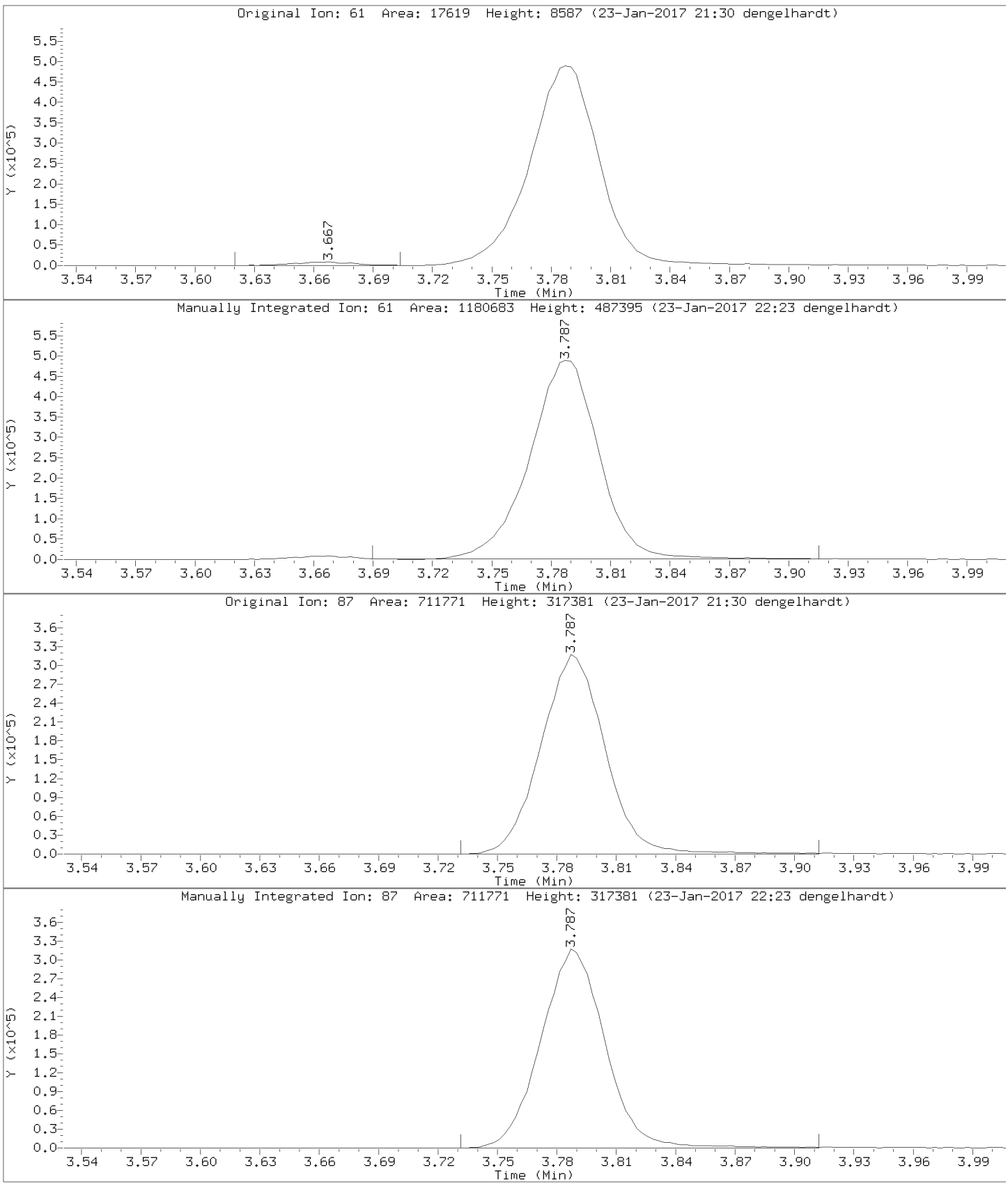


Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b/b08cal8.d
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8

Compound: Isopropyl acetate Review Code: WP
CAS Number: 108-21-4



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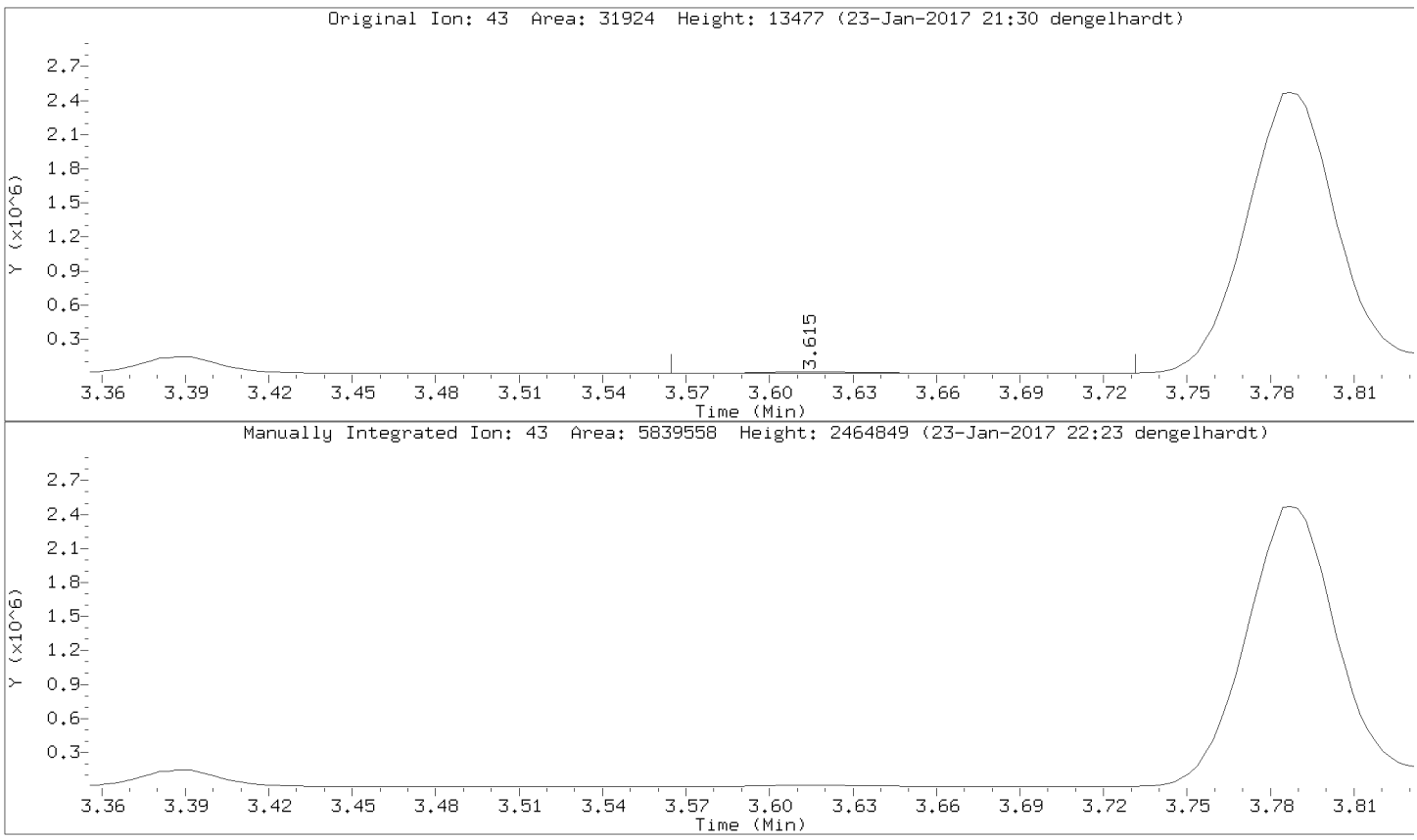
Injection Date: 23-JAN-2017 02:01
Instrument: 50mv2b.i
Lab Sample ID: 8260-CAL8



SAMPLE NO.

10926851CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/24/2017 Time: 23:13

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012417.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	250	245.6404	0.0100	-1.7438	20.0000
Acrolein	Averaged	0.05268	0.05140	0.0000	-2.4381	20.0000
Acrylonitrile	Linear	200	205.1775	0.0000	2.5888	20.0000
Benzene	Averaged	1.33849	1.26097	0.5000	-5.7914	20.0000
Bromobenzene	Averaged	0.69717	0.66441	0.0000	-4.6989	20.0000
Bromochloromethane	Averaged	0.27444	0.25688	0.0000	-6.3982	20.0000
Bromodichloromethane	Averaged	0.42712	0.38203	0.2000	-10.5572	20.0000
Bromoform	Averaged	0.72974	0.61018	0.1000	-16.3834	20.0000
Bromomethane	Linear	50	50.80105	0.1000	1.6021	20.0000
2-Butanone (MEK)	Averaged	0.04981	0.04424	0.0100	-11.1851	20.0000
n-Butylbenzene	Averaged	2.25708	2.30162	0.0000	1.9734	20.0000
sec-Butylbenzene	Averaged	3.26545	3.37460	0.0000	3.3426	20.0000
tert-Butylbenzene	Averaged	2.83347	2.76141	0.0000	-2.5432	20.0000
Carbon disulfide	Averaged	0.93720	0.83405	0.1000	-11.0070	20.0000
Carbon tetrachloride	Averaged	0.48285	0.44712	0.1000	-7.4007	20.0000
Chlorobenzene	Averaged	1.16132	1.15488	0.5000	-0.5544	20.0000
Chloroethane	Averaged	0.25167	0.24412	0.1000	-2.9993	20.0000
Chloroform	Averaged	0.55775	0.52040	0.2000	-6.6963	20.0000
Chloromethane	Averaged	0.32720	0.28154	0.1000	-13.9536	20.0000
2-Chlorotoluene	Averaged	2.26801	2.30131	0.0000	1.4682	20.0000
4-Chlorotoluene	Averaged	0.84700	0.85811	0.0000	1.3120	20.0000
Dibromochloromethane	Averaged	0.46923	0.42243	0.1000	-9.9732	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.42041	0.40468	0.1000	-3.7422	20.0000
Dibromomethane	Averaged	0.20952	0.19969	0.0000	-4.6949	20.0000
1,2-Dichlorobenzene	Averaged	1.65740	1.63786	0.4000	-1.1789	20.0000
1,3-Dichlorobenzene	Averaged	1.70696	1.65766	0.6000	-2.8883	20.0000
1,4-Dichlorobenzene	Averaged	1.84983	1.72491	0.5000	-6.7528	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.15335	0.14563	0.0000	-5.0342	20.0000
Dichlorodifluoromethane	Averaged	0.28889	0.26017	0.1000	-9.9416	20.0000
1,1-Dichloroethane	Averaged	0.58957	0.55023	0.2000	-6.6724	20.0000
1,2-Dichloroethane	Averaged	0.45928	0.44037	0.1000	-4.1167	20.0000
1,1-Dichloroethene	Linear	50	49.53524	0.1000	-0.9295	20.0000
cis-1,2-Dichloroethene	Averaged	0.35560	0.34045	0.1000	-4.2598	20.0000
trans-1,2-Dichloroethene	Averaged	0.32256	0.31361	0.1000	-2.7734	20.0000
1,2-Dichloropropane	Averaged	0.33618	0.31473	0.1000	-6.3785	20.0000
1,3-Dichloropropane	Averaged	0.69502	0.68106	0.0000	-2.0078	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10926851CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/24/2017 Time: 23:13
Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017
Lab File ID: A012417.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44
SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.50377	0.47483	0.0000	-5.7446	20.0000
1,1-Dichloropropene	Averaged	0.47253	0.46337	0.0000	-1.9384	20.0000
cis-1,3-Dichloropropene	Averaged	0.72142	0.67787	0.2000	-6.0374	20.0000
trans-1,3-Dichloropropene	Averaged	0.65358	0.60910	0.1000	-6.8057	20.0000
Ethylbenzene	Averaged	0.63200	0.61841	0.1000	-2.1504	20.0000
Ethyl methacrylate	Averaged	0.65890	0.60224	0.0000	-8.6000	20.0000
Hexachloro-1,3-butadiene	Averaged	0.43161	0.43499	0.0000	0.7828	20.0000
n-Hexane	Averaged	0.46146	0.45088	0.0000	-2.2924	20.0000
2-Hexanone	Averaged	0.32048	0.31608	0.0500	-1.3711	20.0000
Iodomethane	Linear	100	88.88470	0.0000	-11.1153	20.0000
Isopropylbenzene (Cumene)	Averaged	1.78119	1.84017	0.1000	3.3114	20.0000
p-Isopropyltoluene	Averaged	2.70856	2.85863	0.0000	5.5405	20.0000
Methylene Chloride	Linear	50	50.80126	0.1000	1.6025	20.0000
1-Methylnaphthalene	Averaged	1.53530	1.40580	0.0000	-8.4350	20.0000
2-Methylnaphthalene	Averaged	1.73228	1.61079	0.0000	-7.0130	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.49177	0.45532	0.0500	-7.4125	20.0000
Methyl-tert-butyl ether	Averaged	1.08849	1.00700	0.1000	-7.4864	20.0000
Naphthalene	Averaged	3.06956	2.95129	0.0000	-3.8529	20.0000
n-Propylbenzene	Averaged	3.61824	4.00319	0.0000	10.6393	20.0000
Styrene	Averaged	1.21222	1.20902	0.3000	-0.2645	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.44205	0.41760	0.0000	-5.5311	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.00528	1.03708	0.3000	3.1636	20.0000
Tetrachloroethene	Averaged	0.56824	0.50509	0.2000	-11.1133	20.0000
Toluene	Averaged	1.82864	1.79460	0.4000	-1.8614	20.0000
1,2,3-Trichlorobenzene	Averaged	0.99687	0.98557	0.0000	-1.1333	20.0000
1,2,4-Trichlorobenzene	Averaged	1.04199	1.03070	0.2000	-1.0835	20.0000
1,1,1-Trichloroethane	Averaged	0.55325	0.48782	0.1000	-11.8254	20.0000
1,1,2-Trichloroethane	Averaged	0.33566	0.32246	0.1000	-3.9337	20.0000
Trichloroethene	Averaged	0.33026	0.32211	0.2000	-2.4660	20.0000
Trichlorofluoromethane	Averaged	0.49094	0.51644	0.1000	5.1948	20.0000
1,2,3-Trichloropropane	Averaged	0.35409	0.34510	0.0000	-2.5388	20.0000
1,2,4-Trimethylbenzene	Averaged	2.76934	2.77447	0.0000	0.1851	20.0000
1,3,5-Trimethylbenzene	Averaged	2.67684	2.77371	0.0000	3.6187	20.0000
Vinyl acetate	Averaged	0.72079	0.71258	0.0000	-1.1393	20.0000
Vinyl chloride	Averaged	0.39584	0.39845	0.1000	0.6607	20.0000
m&p-Xylene	Averaged	0.76350	0.74449	0.1000	-2.4897	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10926851CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/24/2017 Time: 23:13
Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017
Lab File ID: A012417.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44
SDG No.: 50163373

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.70292	0.71911	0.3000	2.3028	20.0000
4-Bromofluorobenzene (S)	Averaged	0.44460	0.46501	0.1000	4.5902	20.0000
Dibromofluoromethane (S)	Averaged	0.25218	0.24365	0.1000	-3.3842	20.0000
Toluene-d8 (S)	Averaged	1.29808	1.33662	0.1000	2.9691	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10926853CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/25/2017 Time: 11:17

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012417.B\C01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	250	261.5604	0.0100	4.6242	20.0000
Acrolein	Averaged	0.05268	0.04967	0.0000	-5.7060	20.0000
Acrylonitrile	Linear	200	208.0705	0.0000	4.0353	20.0000
Benzene	Averaged	1.33849	1.29857	0.5000	-2.9819	20.0000
Bromobenzene	Averaged	0.69717	0.68599	0.0000	-1.6041	20.0000
Bromochloromethane	Averaged	0.27444	0.26646	0.0000	-2.9061	20.0000
Bromodichloromethane	Averaged	0.42712	0.40196	0.2000	-5.8907	20.0000
Bromoform	Averaged	0.72974	0.63308	0.1000	-13.2457	20.0000
Bromomethane	Linear	50	18.77088	0.1000	-62.4582	20.0000
2-Butanone (MEK)	Averaged	0.04981	0.04571	0.0100	-8.2350	20.0000
n-Butylbenzene	Averaged	2.25708	2.32931	0.0000	3.2004	20.0000
sec-Butylbenzene	Averaged	3.26545	3.52264	0.0000	7.8760	20.0000
tert-Butylbenzene	Averaged	2.83347	2.88551	0.0000	1.8367	20.0000
Carbon disulfide	Averaged	0.93720	0.81819	0.1000	-12.6983	20.0000
Carbon tetrachloride	Averaged	0.48285	0.45566	0.1000	-5.6313	20.0000
Chlorobenzene	Averaged	1.16132	1.16655	0.5000	0.4506	20.0000
Chloroethane	Averaged	0.25167	0.25888	0.1000	2.8640	20.0000
Chloroform	Averaged	0.55775	0.54403	0.2000	-2.4587	20.0000
Chloromethane	Averaged	0.32720	0.21570	0.1000	-34.0758	20.0000
2-Chlorotoluene	Averaged	2.26801	2.40087	0.0000	5.8577	20.0000
4-Chlorotoluene	Averaged	0.84700	0.91255	0.0000	7.7395	20.0000
Dibromochloromethane	Averaged	0.46923	0.43067	0.1000	-8.2181	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.42041	0.42410	0.1000	0.8776	20.0000
Dibromomethane	Averaged	0.20952	0.20947	0.0000	-0.0272	20.0000
1,2-Dichlorobenzene	Averaged	1.65740	1.68170	0.4000	1.4664	20.0000
1,3-Dichlorobenzene	Averaged	1.70696	1.74046	0.6000	1.9629	20.0000
1,4-Dichlorobenzene	Averaged	1.84983	1.74387	0.5000	-5.7281	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.15335	0.13251	0.0000	-13.5890	20.0000
Dichlorodifluoromethane	Averaged	0.28889	0.27382	0.1000	-5.2185	20.0000
1,1-Dichloroethane	Averaged	0.58957	0.57228	0.2000	-2.9313	20.0000
1,2-Dichloroethane	Averaged	0.45928	0.45427	0.1000	-1.0902	20.0000
1,1-Dichloroethene	Linear	50	49.51314	0.1000	-0.9737	20.0000
cis-1,2-Dichloroethene	Averaged	0.35560	0.34705	0.1000	-2.4035	20.0000
trans-1,2-Dichloroethene	Averaged	0.32256	0.31425	0.1000	-2.5750	20.0000
1,2-Dichloropropane	Averaged	0.33618	0.32393	0.1000	-3.6442	20.0000
1,3-Dichloropropane	Averaged	0.69502	0.70117	0.0000	0.8862	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10926853CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/25/2017 Time: 11:17

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012417.B\C01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.50377	0.36264	0.0000	-28.0149	20.0000
1,1-Dichloropropene	Averaged	0.47253	0.46972	0.0000	-0.5952	20.0000
cis-1,3-Dichloropropene	Averaged	0.72142	0.65674	0.2000	-8.9665	20.0000
trans-1,3-Dichloropropene	Averaged	0.65358	0.59327	0.1000	-9.2275	20.0000
Ethylbenzene	Averaged	0.63200	0.62546	0.1000	-1.0348	20.0000
Ethyl methacrylate	Averaged	0.65890	0.61574	0.0000	-6.5508	20.0000
Hexachloro-1,3-butadiene	Averaged	0.43161	0.41039	0.0000	-4.9160	20.0000
n-Hexane	Averaged	0.46146	0.40115	0.0000	-13.0697	20.0000
2-Hexanone	Averaged	0.32048	0.31849	0.0500	-0.6204	20.0000
Iodomethane	Linear	100	54.33083	0.0000	-45.6692	20.0000
Isopropylbenzene (Cumene)	Averaged	1.78119	1.85500	0.1000	4.1442	20.0000
p-Isopropyltoluene	Averaged	2.70856	2.97064	0.0000	9.6759	20.0000
Methylene Chloride	Linear	50	50.77689	0.1000	1.5538	20.0000
1-Methylnaphthalene	Averaged	1.53530	1.40186	0.0000	-8.6919	20.0000
2-Methylnaphthalene	Averaged	1.73228	1.64703	0.0000	-4.9213	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.49177	0.47273	0.0500	-3.8732	20.0000
Methyl-tert-butyl ether	Averaged	1.08849	1.00884	0.1000	-7.3173	20.0000
Naphthalene	Averaged	3.06956	2.98543	0.0000	-2.7408	20.0000
n-Propylbenzene	Averaged	3.61824	4.11663	0.0000	13.7744	20.0000
Styrene	Averaged	1.21222	1.22740	0.3000	1.2524	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.44205	0.42004	0.0000	-4.9791	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.00528	1.10264	0.3000	9.6845	20.0000
Tetrachloroethene	Averaged	0.56824	0.51226	0.2000	-9.8519	20.0000
Toluene	Averaged	1.82864	1.85567	0.4000	1.4781	20.0000
1,2,3-Trichlorobenzene	Averaged	0.99687	0.96294	0.0000	-3.4042	20.0000
1,2,4-Trichlorobenzene	Averaged	1.04199	1.02507	0.2000	-1.6241	20.0000
1,1,1-Trichloroethane	Averaged	0.55325	0.51313	0.1000	-7.2514	20.0000
1,1,2-Trichloroethane	Averaged	0.33566	0.32719	0.1000	-2.5256	20.0000
Trichloroethene	Averaged	0.33026	0.34846	0.2000	5.5113	20.0000
Trichlorofluoromethane	Averaged	0.49094	0.51095	0.1000	4.0750	20.0000
1,2,3-Trichloropropane	Averaged	0.35409	0.38353	0.0000	8.3164	20.0000
1,2,4-Trimethylbenzene	Averaged	2.76934	2.90562	0.0000	4.9208	20.0000
1,3,5-Trimethylbenzene	Averaged	2.67684	2.82644	0.0000	5.5886	20.0000
Vinyl acetate	Averaged	0.72079	0.71659	0.0000	-0.5825	20.0000
Vinyl chloride	Averaged	0.39584	0.39186	0.1000	-1.0045	20.0000
m&p-Xylene	Averaged	0.76350	0.76247	0.1000	-0.1345	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10926853CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/25/2017 Time: 11:17

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012417.B\C01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.70292	0.73094	0.3000	3.9861	20.0000
4-Bromofluorobenzene (S)	Averaged	0.44460	0.46674	0.1000	4.9794	20.0000
Dibromofluoromethane (S)	Averaged	0.25218	0.24777	0.1000	-1.7497	20.0000
Toluene-d8 (S)	Averaged	1.29808	1.31751	0.1000	1.4968	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10927559CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:11

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012517.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	250	229.4342	0.0100	-8.2263	20.0000
Acrolein	Averaged	0.05268	0.06102	0.0000	15.8223	20.0000
Acrylonitrile	Linear	200	189.1169	0.0000	-5.4415	20.0000
Benzene	Averaged	1.33849	1.18812	0.5000	-11.2336	20.0000
Bromobenzene	Averaged	0.69717	0.63303	0.0000	-9.1995	20.0000
Bromochloromethane	Averaged	0.27444	0.24312	0.0000	-11.4098	20.0000
Bromodichloromethane	Averaged	0.42712	0.37710	0.2000	-11.7115	20.0000
Bromoform	Averaged	0.72974	0.56451	0.1000	-22.6419	20.0000
Bromomethane	Linear	50	38.35501	0.1000	-23.2900	20.0000
2-Butanone (MEK)	Averaged	0.04981	0.04271	0.0100	-14.2458	20.0000
n-Butylbenzene	Averaged	2.25708	2.11867	0.0000	-6.1323	20.0000
sec-Butylbenzene	Averaged	3.26545	3.08915	0.0000	-5.3989	20.0000
tert-Butylbenzene	Averaged	2.83347	2.53978	0.0000	-10.3649	20.0000
Carbon disulfide	Averaged	0.93720	0.74016	0.1000	-21.0248	20.0000
Carbon tetrachloride	Averaged	0.48285	0.43420	0.1000	-10.0758	20.0000
Chlorobenzene	Averaged	1.16132	1.05946	0.5000	-8.7711	20.0000
Chloroethane	Averaged	0.25167	0.24524	0.1000	-2.5564	20.0000
Chloroform	Averaged	0.55775	0.51051	0.2000	-8.4687	20.0000
Chloromethane	Averaged	0.32720	0.25287	0.1000	-22.7160	20.0000
2-Chlorotoluene	Averaged	2.26801	2.13362	0.0000	-5.9254	20.0000
4-Chlorotoluene	Averaged	0.84700	0.81205	0.0000	-4.1257	20.0000
Dibromochloromethane	Averaged	0.46923	0.39220	0.1000	-16.4150	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.42041	0.38501	0.1000	-8.4194	20.0000
Dibromomethane	Averaged	0.20952	0.19156	0.0000	-8.5741	20.0000
1,2-Dichlorobenzene	Averaged	1.65740	1.47513	0.4000	-10.9968	20.0000
1,3-Dichlorobenzene	Averaged	1.70696	1.53884	0.6000	-9.8488	20.0000
1,4-Dichlorobenzene	Averaged	1.84983	1.56284	0.5000	-15.5144	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.15335	0.14012	0.0000	-8.6264	20.0000
Dichlorodifluoromethane	Averaged	0.28889	0.44686	0.1000	54.6780	20.0000
1,1-Dichloroethane	Averaged	0.58957	0.52306	0.2000	-11.2808	20.0000
1,2-Dichloroethane	Averaged	0.45928	0.42830	0.1000	-6.7447	20.0000
1,1-Dichloroethene	Linear	50	46.07274	0.1000	-7.8545	20.0000
cis-1,2-Dichloroethene	Averaged	0.35560	0.32470	0.1000	-8.6877	20.0000
trans-1,2-Dichloroethene	Averaged	0.32256	0.28759	0.1000	-10.8402	20.0000
1,2-Dichloropropane	Averaged	0.33618	0.29218	0.1000	-13.0872	20.0000
1,3-Dichloropropane	Averaged	0.69502	0.63589	0.0000	-8.5072	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10927559CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:11

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012517.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.50377	0.43714	0.0000	-13.2262	20.0000
1,1-Dichloropropene	Averaged	0.47253	0.44752	0.0000	-5.2929	20.0000
cis-1,3-Dichloropropene	Averaged	0.72142	0.62124	0.2000	-13.8873	20.0000
trans-1,3-Dichloropropene	Averaged	0.65358	0.55260	0.1000	-15.4508	20.0000
Ethylbenzene	Averaged	0.63200	0.57174	0.1000	-9.5338	20.0000
Ethyl methacrylate	Averaged	0.65890	0.56296	0.0000	-14.5617	20.0000
Hexachloro-1,3-butadiene	Averaged	0.43161	0.37196	0.0000	-13.8206	20.0000
n-Hexane	Averaged	0.46146	0.41611	0.0000	-9.8280	20.0000
2-Hexanone	Averaged	0.32048	0.29153	0.0500	-9.0321	20.0000
Iodomethane	Linear	100	64.49928	0.0000	-35.5007	20.0000
Isopropylbenzene (Cumene)	Averaged	1.78119	1.69702	0.1000	-4.7255	20.0000
p-Isopropyltoluene	Averaged	2.70856	2.63296	0.0000	-2.7912	20.0000
Methylene Chloride	Linear	50	46.4602	0.1000	-7.0796	20.0000
1-Methylnaphthalene	Averaged	1.53530	1.27054	0.0000	-17.2447	20.0000
2-Methylnaphthalene	Averaged	1.73228	1.43213	0.0000	-17.3269	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.49177	0.41661	0.0500	-15.2849	20.0000
Methyl-tert-butyl ether	Averaged	1.08849	0.91189	0.1000	-16.2240	20.0000
Naphthalene	Averaged	3.06956	2.65169	0.0000	-13.6135	20.0000
n-Propylbenzene	Averaged	3.61824	3.68548	0.0000	1.8585	20.0000
Styrene	Averaged	1.21222	1.15130	0.3000	-5.0254	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.44205	0.38227	0.0000	-13.5228	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.00528	0.97616	0.3000	-2.8966	20.0000
Tetrachloroethene	Averaged	0.56824	0.46203	0.2000	-18.6916	20.0000
Toluene	Averaged	1.82864	1.66037	0.4000	-9.2022	20.0000
1,2,3-Trichlorobenzene	Averaged	0.99687	0.89551	0.0000	-10.1678	20.0000
1,2,4-Trichlorobenzene	Averaged	1.04199	0.92923	0.2000	-10.8213	20.0000
1,1,1-Trichloroethane	Averaged	0.55325	0.47947	0.1000	-13.3352	20.0000
1,1,2-Trichloroethane	Averaged	0.33566	0.30242	0.1000	-9.9045	20.0000
Trichloroethene	Averaged	0.33026	0.30954	0.2000	-6.2717	20.0000
Trichlorofluoromethane	Averaged	0.49094	0.53986	0.1000	9.9656	20.0000
1,2,3-Trichloropropane	Averaged	0.35409	0.33484	0.0000	-5.4346	20.0000
1,2,4-Trimethylbenzene	Averaged	2.76934	2.60618	0.0000	-5.8918	20.0000
1,3,5-Trimethylbenzene	Averaged	2.67684	2.54270	0.0000	-5.0111	20.0000
Vinyl acetate	Averaged	0.72079	0.69458	0.0000	-3.6362	20.0000
Vinyl chloride	Averaged	0.39584	0.44032	0.1000	11.2380	20.0000
m&p-Xylene	Averaged	0.76350	0.69148	0.1000	-9.4322	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10927559CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:11

Instrument ID: 50MV2A GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: A012517.B\A01CCV.D
Init. Calib. Time(s): 21:54 01:44

SDG No.: 50163373

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.70292	0.66722	0.3000	-5.0791	20.0000
4-Bromofluorobenzene (S)	Averaged	0.44460	0.45829	0.1000	3.0783	20.0000
Dibromofluoromethane (S)	Averaged	0.25218	0.25329	0.1000	0.4372	20.0000
Toluene-d8 (S)	Averaged	1.29808	1.28713	0.1000	-0.8432	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10929458CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:28

Instrument ID: 50MV2B GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: B012517.B\B01CCV.D
Init. Calib. Time(s): 22:10 02:01

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	250	247.9070	0.0100	-0.8372	20.0000
Acrolein	Averaged	0.06895	0.08147	0.0000	18.1673	20.0000
Acrylonitrile	Linear	200	196.7105	0.0000	-1.6447	20.0000
Benzene	Averaged	1.55558	1.43462	0.5000	-7.7754	20.0000
Bromobenzene	Averaged	0.91641	0.84333	0.0000	-7.9744	20.0000
Bromochloromethane	Averaged	0.35468	0.31563	0.0000	-11.0100	20.0000
Bromodichloromethane	Averaged	0.55413	0.48003	0.2000	-13.3714	20.0000
Bromoform	Averaged	0.73229	0.61034	0.1000	-16.6536	20.0000
Bromomethane	Linear	50	49.92697	0.1000	-0.1460	20.0000
2-Butanone (MEK)	Averaged	0.05772	0.05935	0.0100	2.8218	20.0000
n-Butylbenzene	Averaged	2.56856	2.48013	0.0000	-3.4430	20.0000
sec-Butylbenzene	Averaged	3.65121	3.57750	0.0000	-2.0187	20.0000
tert-Butylbenzene	Linear	50	41.99325	0.0000	-16.0135	20.0000
Carbon disulfide	Linear	50	44.52559	0.1000	-10.9488	20.0000
Carbon tetrachloride	Averaged	0.54762	0.49078	0.1000	-10.3789	20.0000
Chlorobenzene	Averaged	1.38899	1.30482	0.5000	-6.0600	20.0000
Chloroethane	Averaged	0.29295	0.28216	0.1000	-3.6815	20.0000
Chloroform	Linear	50	50.49861	0.2000	0.9972	20.0000
Chloromethane	Averaged	0.49907	0.44462	0.1000	-10.9094	20.0000
2-Chlorotoluene	Averaged	2.57806	2.50335	0.0000	-2.8977	20.0000
4-Chlorotoluene	Averaged	0.98416	0.94376	0.0000	-4.1055	20.0000
Dibromochloromethane	Averaged	0.53730	0.48730	0.1000	-9.3057	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.47494	0.47600	0.1000	0.2244	20.0000
Dibromomethane	Linear	50	50.32452	0.0000	0.6491	20.0000
1,2-Dichlorobenzene	Averaged	1.97556	1.85503	0.4000	-6.1011	20.0000
1,3-Dichlorobenzene	Averaged	2.00316	1.88658	0.6000	-5.8199	20.0000
1,4-Dichlorobenzene	Averaged	2.16807	1.91193	0.5000	-11.8144	20.0000
trans-1,4-Dichloro-2-butene	Linear	50	49.00234	0.0000	-1.9953	20.0000
Dichlorodifluoromethane	Linear	50	79.60995	0.1000	59.2199	20.0000
1,1-Dichloroethane	Averaged	0.71377	0.63479	0.2000	-11.0647	20.0000
1,2-Dichloroethane	Averaged	0.57274	0.55150	0.1000	-3.7083	20.0000
1,1-Dichloroethene	Linear	50	46.72249	0.1000	-6.5550	20.0000
cis-1,2-Dichloroethene	Linear	50	48.96265	0.1000	-2.0747	20.0000
trans-1,2-Dichloroethene	Linear	50	46.43319	0.1000	-7.1336	20.0000
1,2-Dichloropropane	Averaged	0.41177	0.36115	0.1000	-12.2933	20.0000
1,3-Dichloropropane	Averaged	0.77273	0.77339	0.0000	0.0846	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10929458CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:28

Instrument ID: 50MV2B GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017

Lab File ID: B012517.B\B01CCV.D
Init. Calib. Time(s): 22:10 02:01

SDG No.: 50163373

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Linear	50	48.07506	0.0000	-3.8499	20.0000
1,1-Dichloropropene	Averaged	0.53738	0.51443	0.0000	-4.2706	20.0000
cis-1,3-Dichloropropene	Averaged	0.75838	0.74758	0.2000	-1.4238	20.0000
trans-1,3-Dichloropropene	Averaged	0.67811	0.67352	0.1000	-0.6780	20.0000
Ethylbenzene	Averaged	0.75887	0.70333	0.1000	-7.3192	20.0000
Ethyl methacrylate	Linear	50	48.87271	0.0000	-2.2546	20.0000
Hexachloro-1,3-butadiene	Averaged	0.49255	0.43038	0.0000	-12.6234	20.0000
n-Hexane	Averaged	0.54924	0.46797	0.0000	-14.7981	20.0000
2-Hexanone	Averaged	0.37458	0.36312	0.0500	-3.0582	20.0000
Iodomethane	Linear	100	72.54006	0.0000	-27.4599	20.0000
Isopropylbenzene (Cumene)	Averaged	2.26297	2.22175	0.1000	-1.8215	20.0000
p-Isopropyltoluene	Averaged	3.15694	3.09472	0.0000	-1.9710	20.0000
Methylene Chloride	Linear	50	48.00952	0.1000	-3.9810	20.0000
1-Methylnaphthalene	Averaged	1.53876	1.37865	0.0000	-10.4052	20.0000
2-Methylnaphthalene	Averaged	1.76421	1.59048	0.0000	-9.8479	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.53760	0.50685	0.0500	-5.7199	20.0000
Methyl-tert-butyl ether	Averaged	1.29883	1.14149	0.1000	-12.1137	20.0000
Naphthalene	Averaged	3.77091	3.48825	0.0000	-7.4959	20.0000
n-Propylbenzene	Averaged	4.06750	4.19847	0.0000	3.2201	20.0000
Styrene	Averaged	1.52647	1.52423	0.3000	-0.1468	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.50839	0.47028	0.0000	-7.4974	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.10919	1.08245	0.3000	-2.4104	20.0000
Tetrachloroethene	Averaged	0.58022	0.55206	0.2000	-4.8529	20.0000
Toluene	Averaged	2.12316	1.94231	0.4000	-8.5179	20.0000
1,2,3-Trichlorobenzene	Averaged	1.19977	1.10929	0.0000	-7.5414	20.0000
1,2,4-Trichlorobenzene	Averaged	1.24996	1.16518	0.2000	-6.7829	20.0000
1,1,1-Trichloroethane	Averaged	0.63853	0.55222	0.1000	-13.5164	20.0000
1,1,2-Trichloroethane	Averaged	0.39024	0.36262	0.1000	-7.0760	20.0000
Trichloroethene	Averaged	0.38298	0.36301	0.2000	-5.2156	20.0000
Trichlorofluoromethane	Averaged	0.55870	0.62317	0.1000	11.5394	20.0000
1,2,3-Trichloropropane	Averaged	0.36552	0.36293	0.0000	-0.7086	20.0000
1,2,4-Trimethylbenzene	Averaged	3.23599	3.15166	0.0000	-2.6059	20.0000
1,3,5-Trimethylbenzene	Averaged	3.11502	3.02333	0.0000	-2.9434	20.0000
Vinyl acetate	Averaged	0.82259	0.85727	0.0000	4.2155	20.0000
Vinyl chloride	Averaged	0.48476	0.50037	0.1000	3.2207	20.0000
m&p-Xylene	Averaged	0.92585	0.89962	0.1000	-2.8332	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

10929458CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana
Calibration Date: 01/26/2017 Time: 00:28
Instrument ID: 50MV2B GC Column: Col 1
Init. Calib. Date(s): 01/22/2017 01/23/2017
Lab File ID: B012517.B\B01CCV.D
Init. Calib. Time(s): 22:10 02:01
SDG No.: 50163373

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.90046	0.86821	0.3000	-3.5815	20.0000
4-Bromofluorobenzene (S)	Averaged	0.47727	0.50977	0.1000	6.8097	20.0000
Dibromofluoromethane (S)	Averaged	0.27229	0.25638	0.1000	-5.8414	20.0000
Toluene-d8 (S)	Averaged	1.22563	1.25803	0.1000	2.6439	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d
Lab Smp Id: 8260-ICV,140434:5 Client Smp ID: 8260-ICV,140434:5
Inj Date : 23-JAN-2017 02:50
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-icv,140434:5
Misc Info : 99071
Comment :
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Meth Date : 23-Jan-2017 20:03 dengelhard Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 13 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	149591	65.8416	65.8(R)	
2 Chloromethane	50	0.952	0.952	(0.234)	143712	55.8490	55.8	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	188681	60.6105	60.6	
4 Bromomethane	94	1.138	1.138	(0.280)	111698	79.0946	79.1(R)	
5 Chloroethane	64	1.185	1.182	(0.291)	107734	54.4320	54.4	
6 Trichlorofluoromethane	101	1.297	1.294	(0.319)	233949	60.5937	60.6	
7 Diethyl ether	74	1.416	1.416	(0.348)	88536	47.8587	47.8	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.352)	162660	46.2432	46.2	
9 Acrolein	56	1.489	1.489	(0.366)	556622	1343.54	1340	
10 1,1,2trichlorotrifluoroethane	101	1.536	1.539	(0.378)	138514	47.6547	47.6	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	111873	47.0293	47.0	
12 Acetone	43	1.555	1.555	(0.382)	219874	244.546	244	
13 Iodomethane	142	1.628	1.628	(0.400)	313597	93.4377	93.4	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	367271	49.8296	49.8	
15 Methyl Acetate	43	1.719	1.719	(0.423)	222011	68.1476	68.1	
16 Acetonitrile	39	1.733	1.733	(0.426)	287000	45.4522	45.4	
17 allyl chloride	41	1.733	1.733	(0.426)	413646	93.2575	93.2	
18 Methylene Chloride	84	1.806	1.806	(0.444)	120955	51.3921	51.4	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	36000	114.591	114	
20 Acrylonitrile	53	1.942	1.942	(0.477)	219402	193.464	193	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	395751	46.2310	46.2	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	122238	48.1878	48.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.148	2.148	(0.528)	174025	47.9529	48.0	
24 Vinyl Acetate	43	2.262	2.262	(0.556)	1070685	188.881	189	
25 1,1-Dichloroethane	63	2.270	2.270	(0.558)	219420	47.3237	47.3	
26 Chloroprene	53	2.326	2.323	(0.572)	196431	47.8500	47.8	
27 Ethyl acetate	88	2.732	2.763	(0.672)	1736	10.8648	10.9(Q)	
28 2-Butanone	72	2.721	2.724	(0.669)	90040	229.869	230(Q)	
29 1,2-Dichloroethene (cis)	96	2.735	2.735	(0.672)	131409	46.9894	47.0	
30 2,2-Dichloropropane	77	2.735	2.738	(0.672)	179071	45.1989	45.2	
31 Propionitrile	54	2.779	2.782	(0.683)	19888	43.0735	43.1(Q)	
32 Methacrylonitrile	41	2.921	2.927	(0.718)	363874	200.870	201	
33 Bromochloromethane	49	2.963	2.963	(0.728)	100573	46.5986	46.6	
34 Tetrahydrofuran	42	2.985	2.983	(0.734)	47903	56.5301	56.5(Q)	
35 Chloroform	83	3.069	3.069	(0.754)	212532	48.4532	48.4	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	99226	50.0312	50.0	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.795)	198525	45.6280	45.6	
38 cyclohexane	56	3.311	3.314	(0.814)	216916	48.1781	48.2	
150 n-butyl chloride	56	3.380	3.378	(0.831)	269564	48.1798	48.2	
39 Carbon Tetrachloride	117	3.411	3.411	(0.839)	179303	47.2181	47.2	
40 1,1-Dichloropropene	75	3.419	3.419	(0.841)	185558	49.9327	49.9	
41 Benzene	78	3.656	3.659	(0.899)	497295	47.2427	47.2	
42 1,2-Dichloroethane	62	3.745	3.748	(0.921)	166728	46.1600	46.2	
43 2,2,4-Trimethylpentane	57	3.828	3.826	(0.941)	347523	51.3307	51.3	
44 Isobutyl alcohol	43	3.592	3.770	(0.883)	31313	1.28858	1.29(Q)	
* 45 Fluorobenzene	96	4.068	4.068	(1.000)	393220	50.0000		
46 isopropyl acetate	61	3.648	3.773	(0.897)	5825	4.51762	4.52(Q)	
47 Trichloroethene	95	4.530	4.527	(1.114)	124101	47.7813	47.8	
48 Methylcyclohexane	55	4.794	4.794	(1.179)	151423	49.6249	49.6	
49 1,2-Dichloropropane	63	4.838	4.847	(1.189)	128595	48.6397	48.6	
50 1,4-Dioxane	88	4.950	4.947	(1.217)	34378	1101.18	1100	
51 Dibromomethane	93	4.941	4.938	(1.215)	78560	47.6760	47.7	
52 Methyl methacrylate	69	4.961	4.961	(1.220)	109182	48.9945	49.0	
53 Bromodichloromethane	83	5.172	5.172	(1.272)	159736	47.5542	47.6	
54 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	90527	46.0709	46.1	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	205796	48.6224	48.6	
56 4-Methyl-2-Pentanone	43	5.851	5.854	(0.794)	687066	238.135	238	
$ 57 Toluene-d8	98	5.948	5.948	(0.807)	372270	48.8819	48.9	
58 Toluene	91	6.021	6.024	(0.817)	520776	48.5414	48.5	
59 trans-1,3-Dichloropropene	75	6.316	6.316	(0.857)	187003	48.7686	48.8	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	736393	190.492	190	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	92371	46.9053	46.9	
62 Tetrachloroethene	166	6.561	6.561	(0.890)	146103	43.8246	43.8	
63 1,3-Dichloropropane	76	6.663	6.663	(0.904)	200336	49.1308	49.1	
64 2-Hexanone	43	6.739	6.739	(0.915)	466656	248.193	248	
65 Dibromochloromethane	129	6.867	6.864	(0.932)	130733	47.4888	47.5	
66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	120748	48.9549	49.0	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	293346	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	323287	47.4491	47.4	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	128460	49.5320	49.5	
70 Ethylbenzene	106	7.484	7.484	(1.016)	179918	48.5232	48.5	
71 m&p-Xylene	106	7.596	7.598	(1.031)	432502	96.5543	96.6	
72 o-Xylene	106	7.899	7.899	(1.072)	203950	49.4547	49.4	
73 Styrene	104	7.918	7.918	(1.075)	355731	50.0184	50.0	
74 Bromoform	173	8.055	8.055	(0.883)	98635	43.9985	44.0	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	520248	49.7841	49.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 76 4-Bromofluorobenzene	95	8.311	8.313	(1.128)	131012	50.2260	50.2	
77 n-amyl acetate	70	8.071	8.071	(1.096)	473063	238.388	238	
78 Bromobenzene	77	8.402	8.402	(1.140)	189188	46.2535	46.2	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	149999	48.5707	48.6	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.447	(1.147)	148443	164.990	165(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	52627	48.3808	48.4(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	583919	52.5326	52.5	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	326918	46.9209	46.9	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	396091	48.1666	48.2	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	129527	49.7797	49.8	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	363922	41.8083	41.8	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	412828	48.5250	48.5	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	501252	49.9674	50.0	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	257158	49.0400	49.0	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	422591	50.7873	50.8	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	153602	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	260760	45.8862	45.9	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	334115	48.1862	48.2	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	252466	49.5849	49.6	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.871	(1.083)	31494	48.2500	48.2	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	162105	50.6413	50.6	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	70278	53.0030	53.0	
98 Naphthalene	128	10.534	10.534	(1.155)	450746	47.8001	47.8	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	151982	49.6279	49.6	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	234304	44.0287	44.0	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	246495	52.2622	52.3	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d
Date : 23-JAN-2017 02:50
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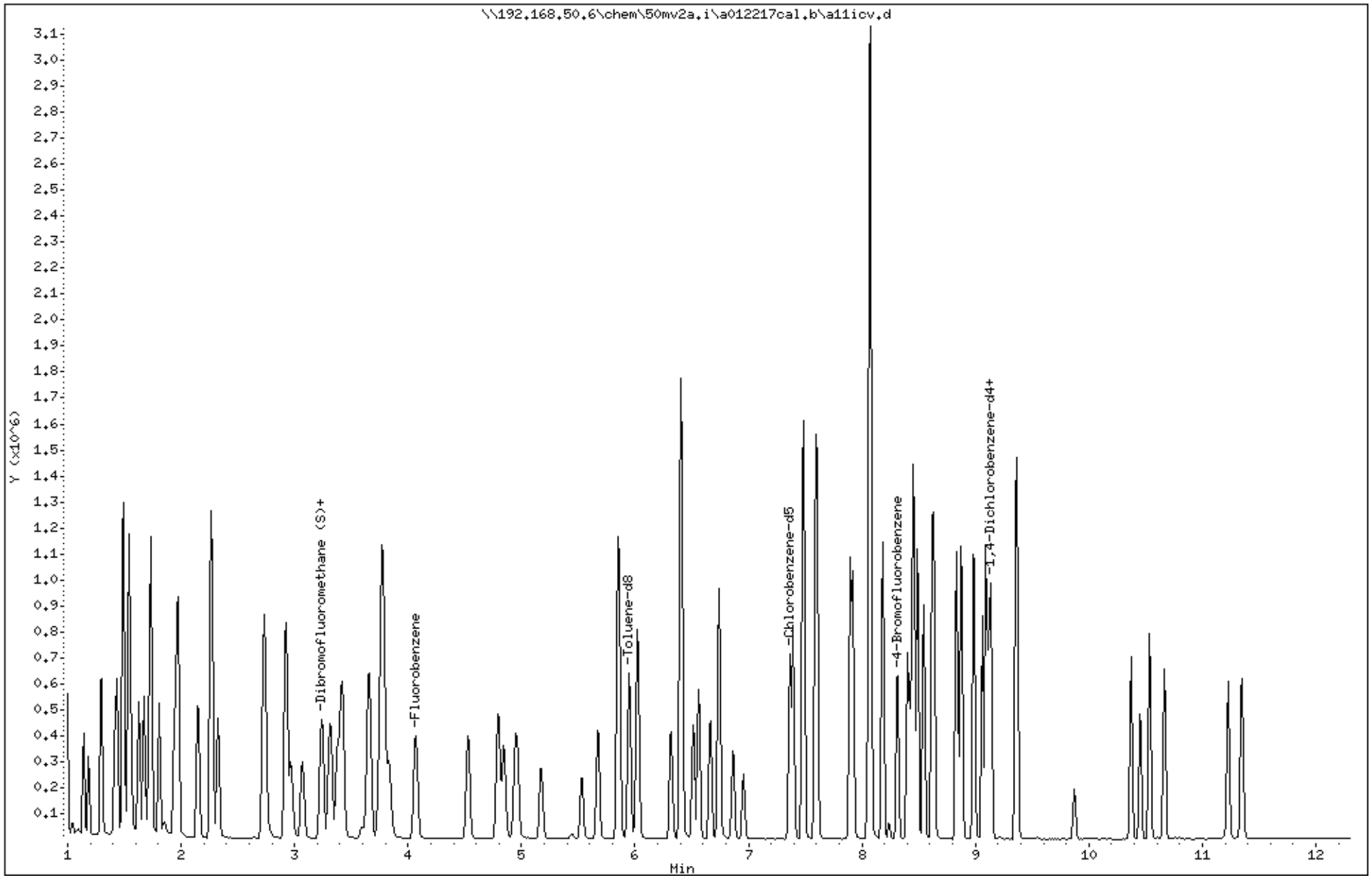
Sample Info: 8260-ICV,140434:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

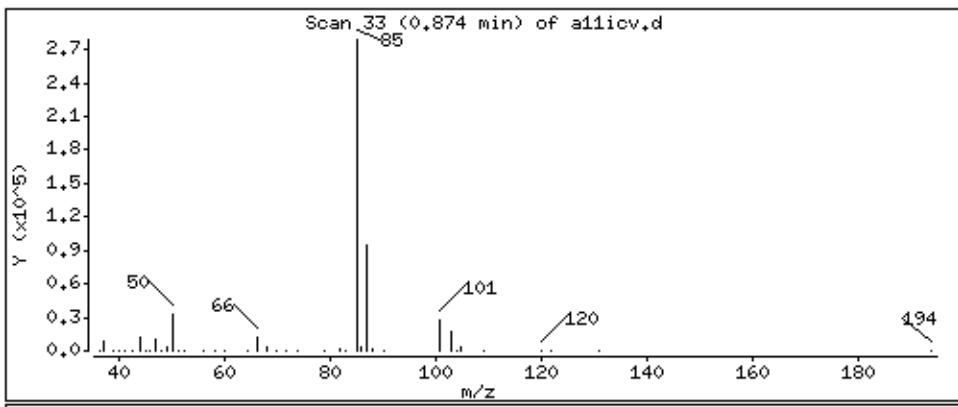
Operator: dae

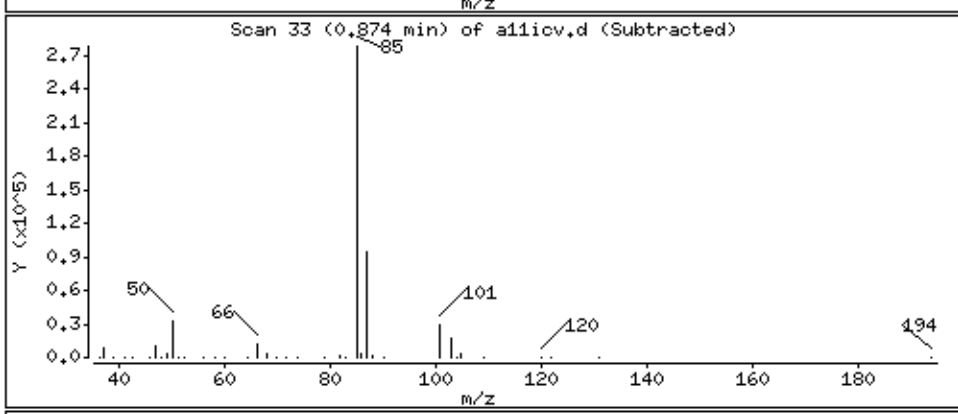
Column phase: DB-624

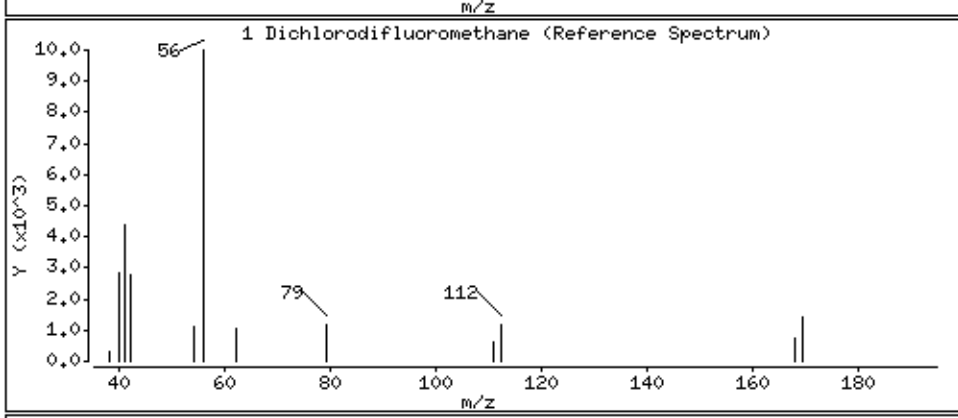
Column diameter: 0.18

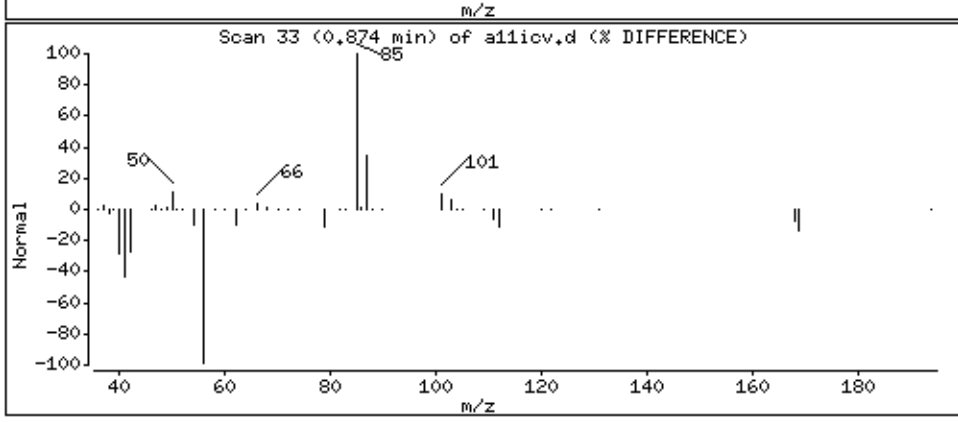
1 Dichlorodifluoromethane

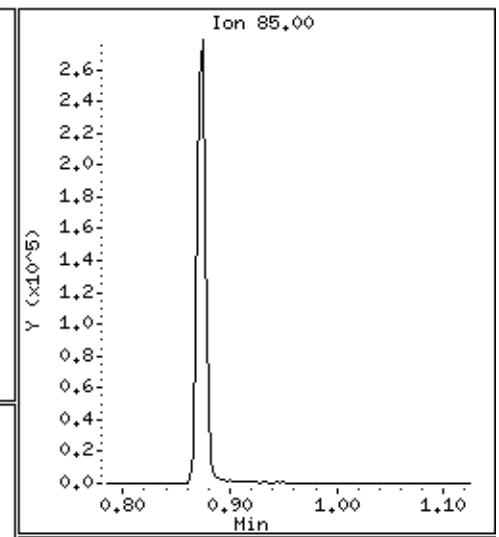
Concentration: 65.8 ppb

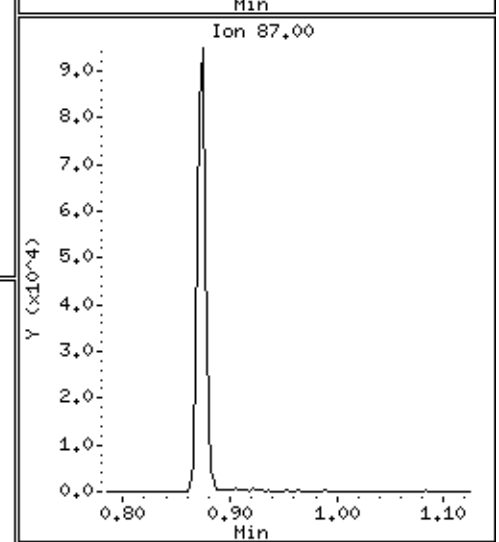


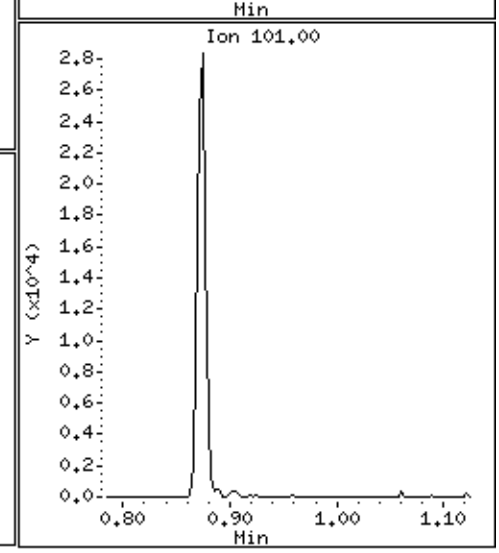












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

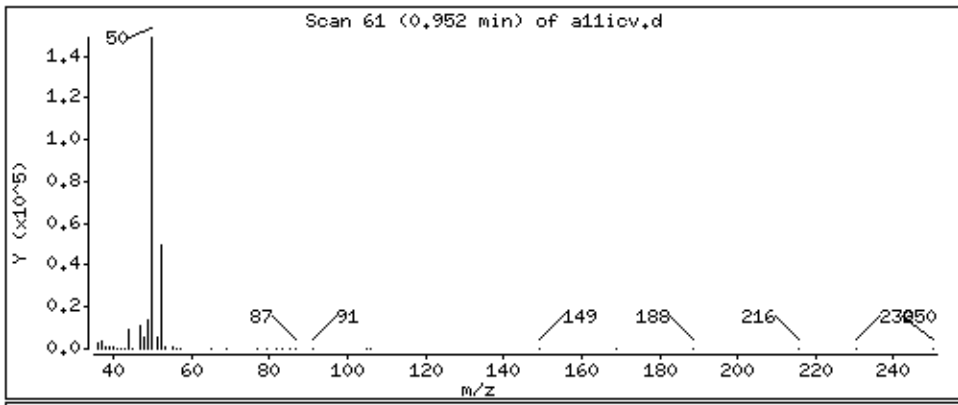
Operator: dae

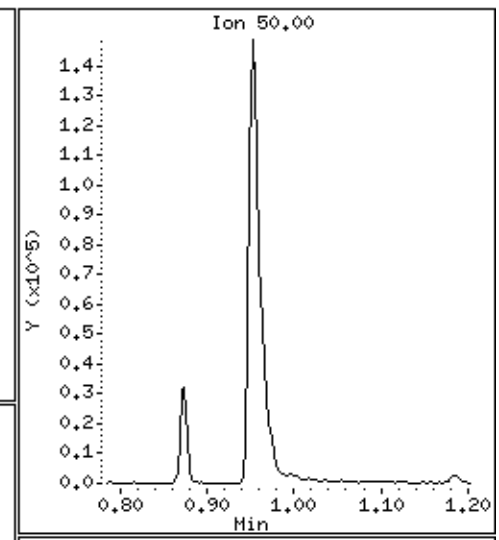
Column phase: DB-624

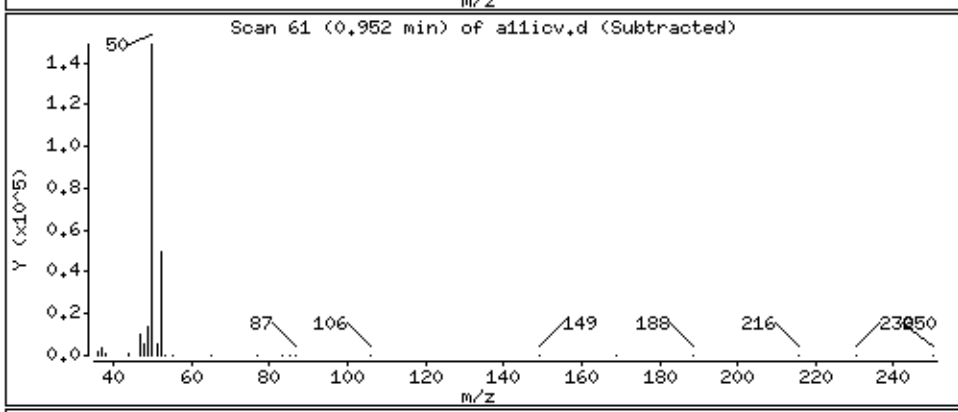
Column diameter: 0.18

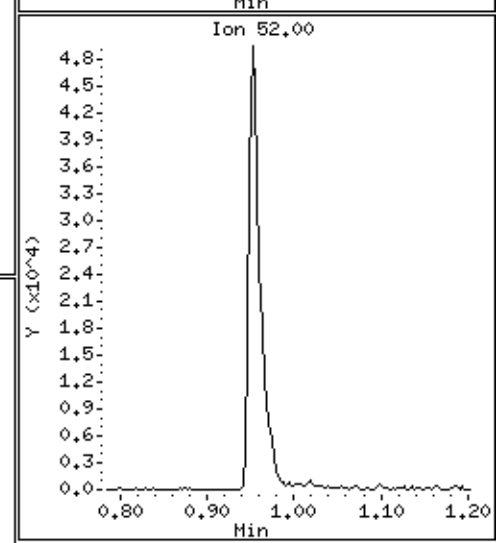
2 Chloromethane

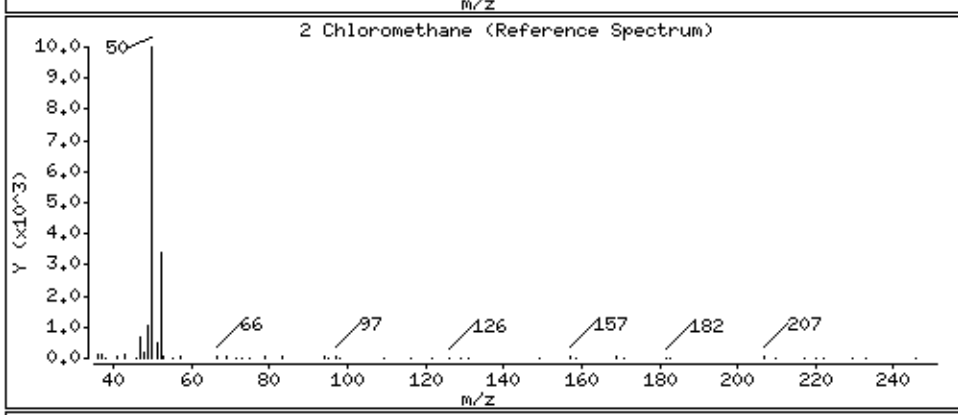
Concentration: 55.8 ppb

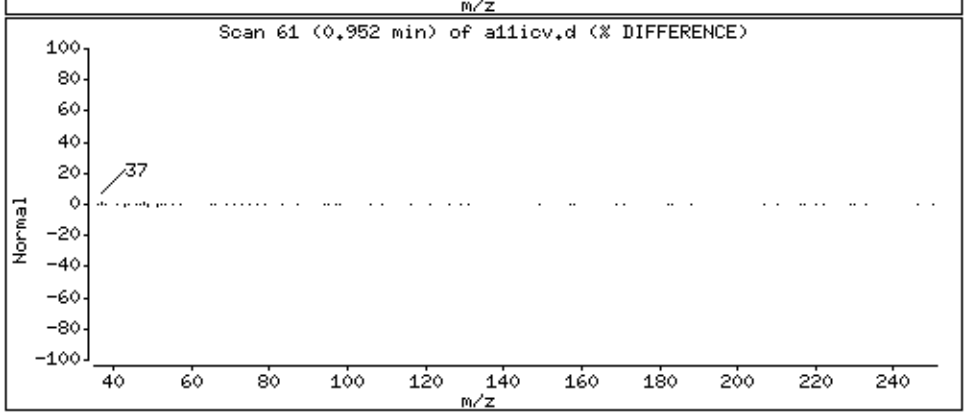












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

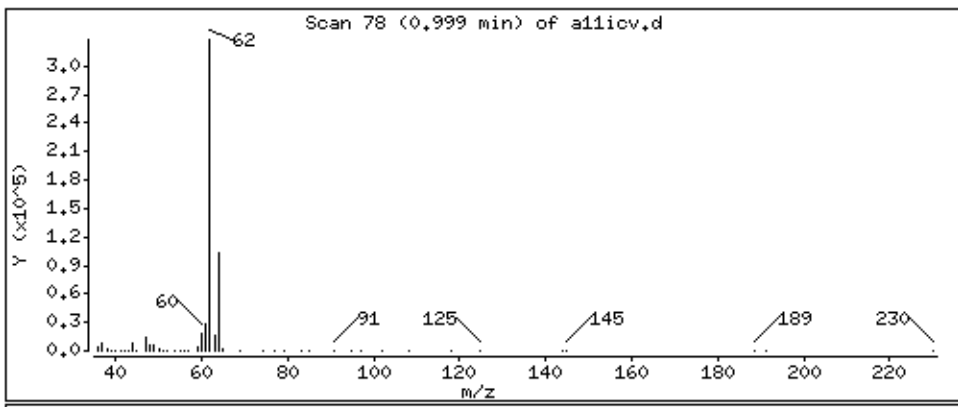
Operator: dae

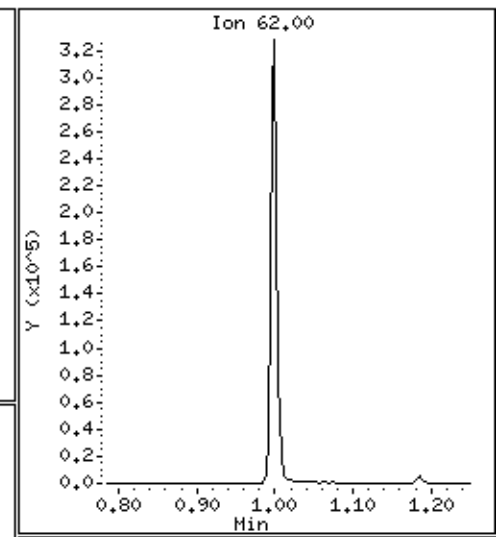
Column phase: DB-624

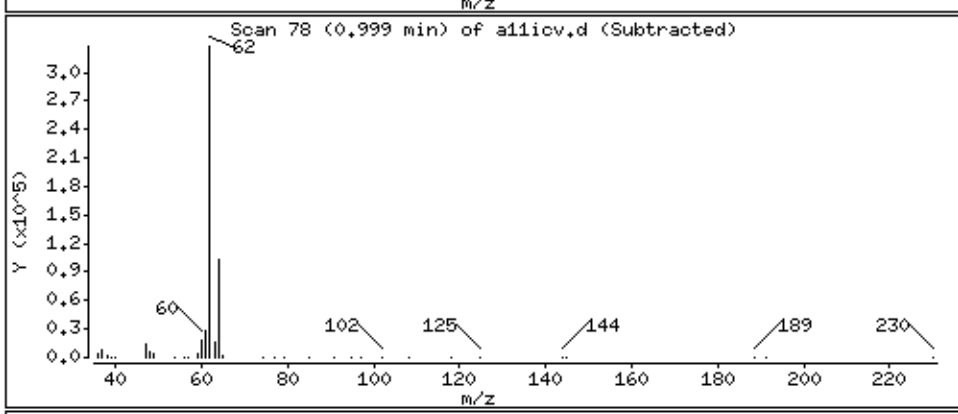
Column diameter: 0.18

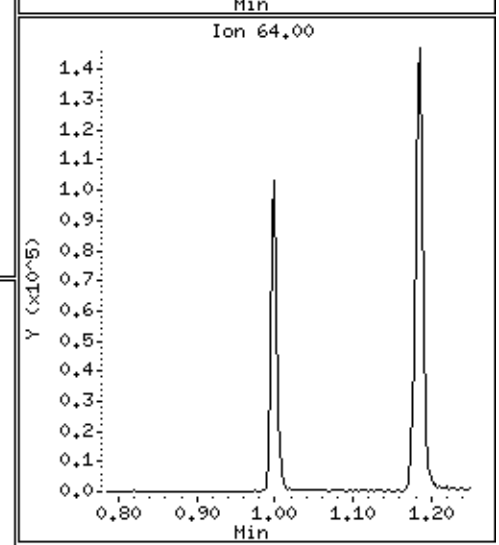
3 Vinyl Chloride

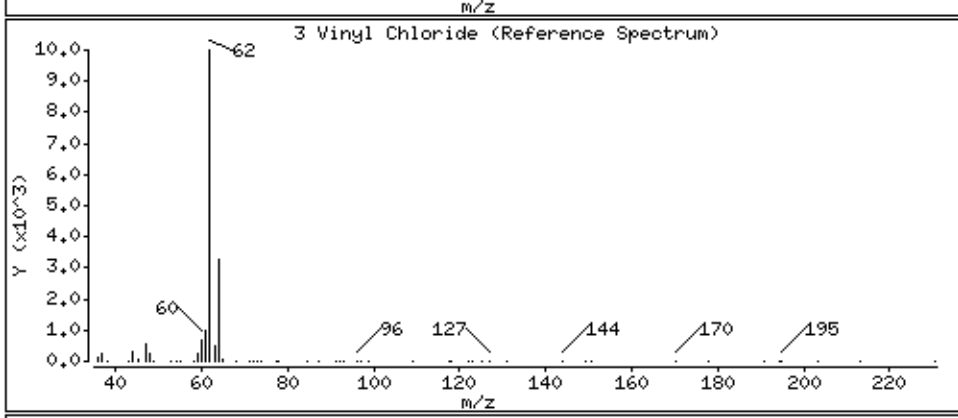
Concentration: 60.6 ppb

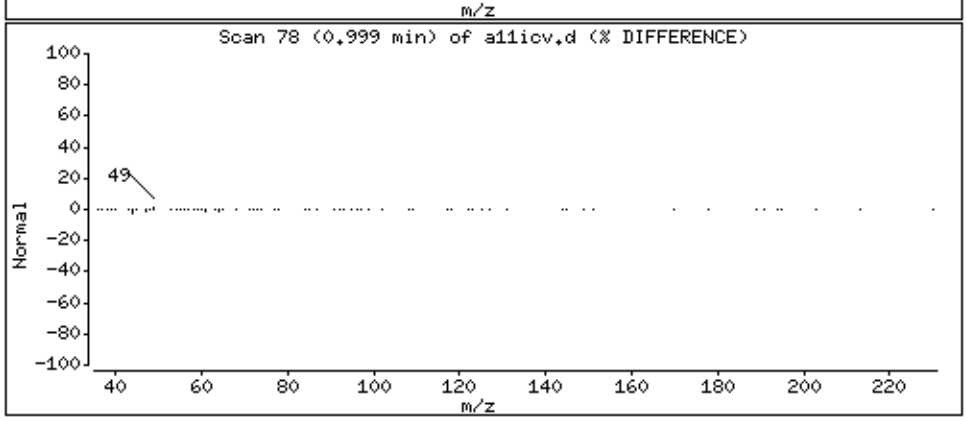












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

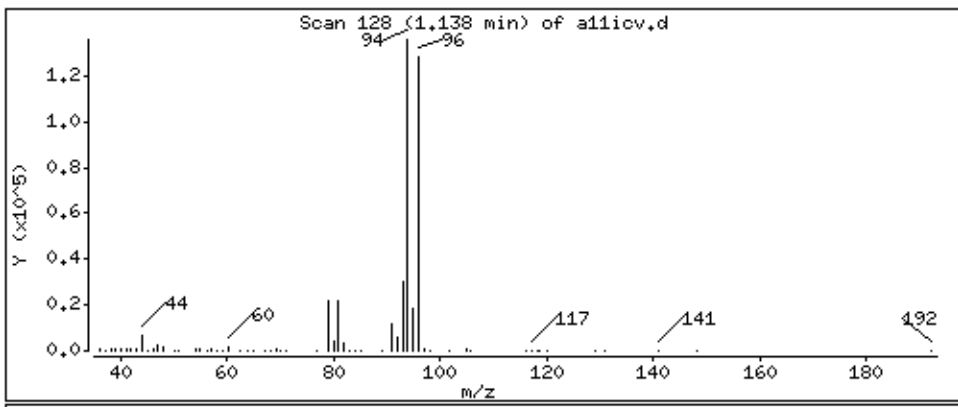
Operator: dae

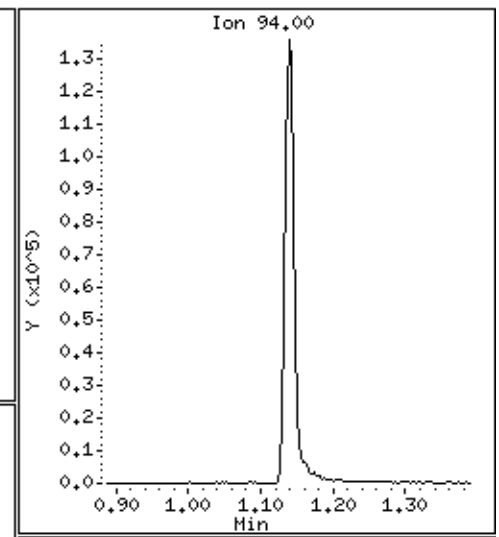
Column phase: DB-624

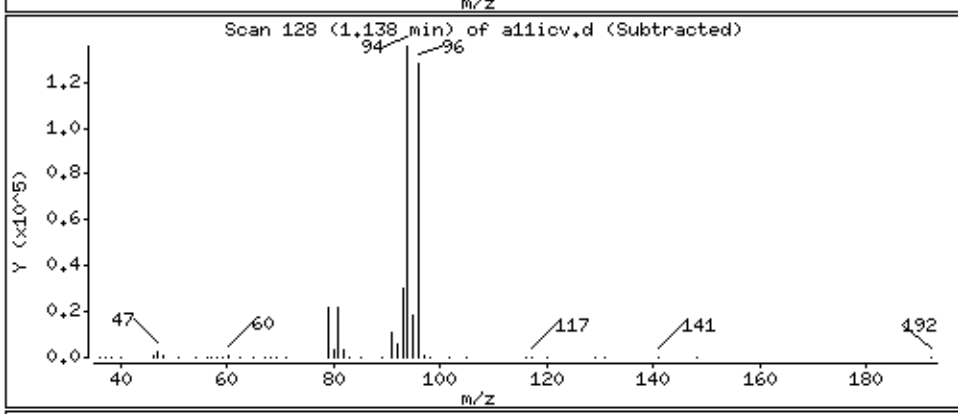
Column diameter: 0.18

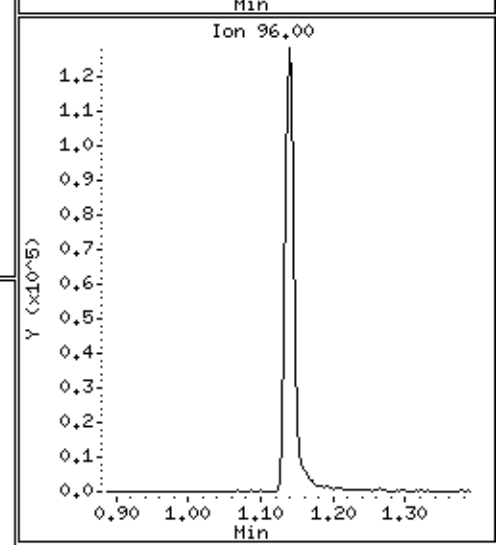
4 Bromomethane

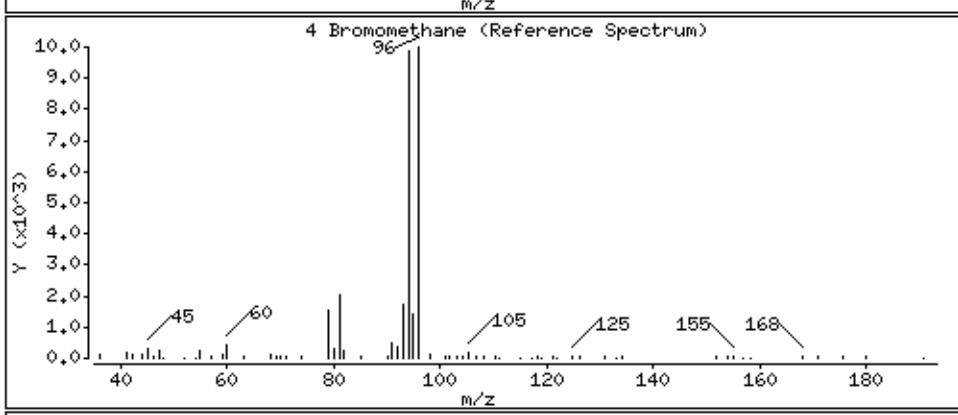
Concentration: 79.1 ppb

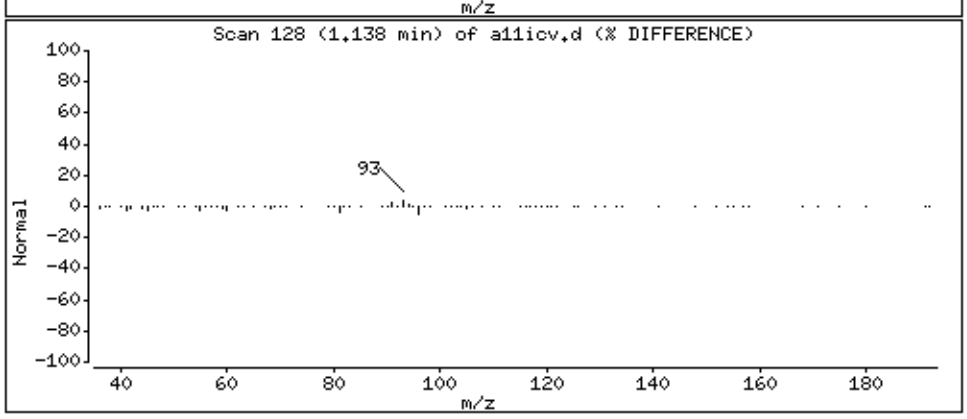












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

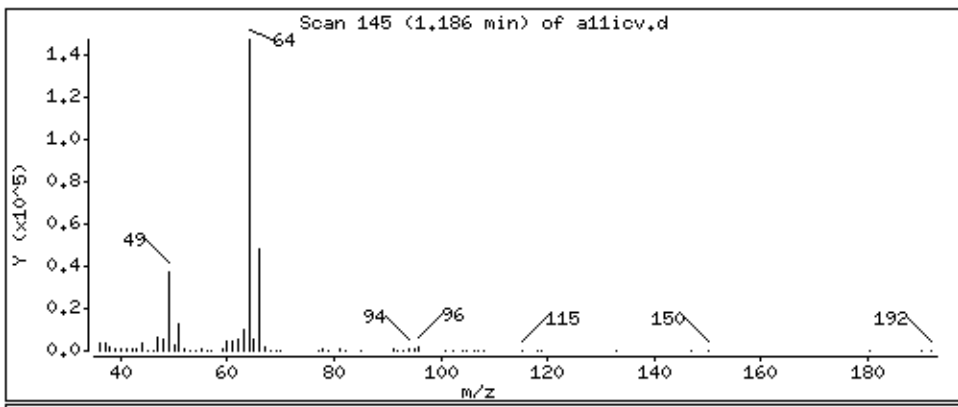
Operator: dae

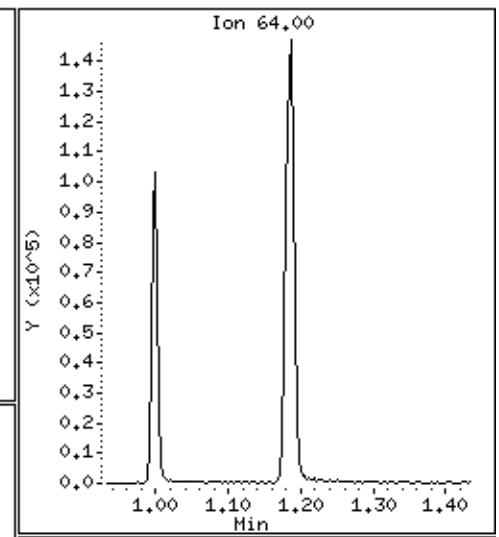
Column phase: DB-624

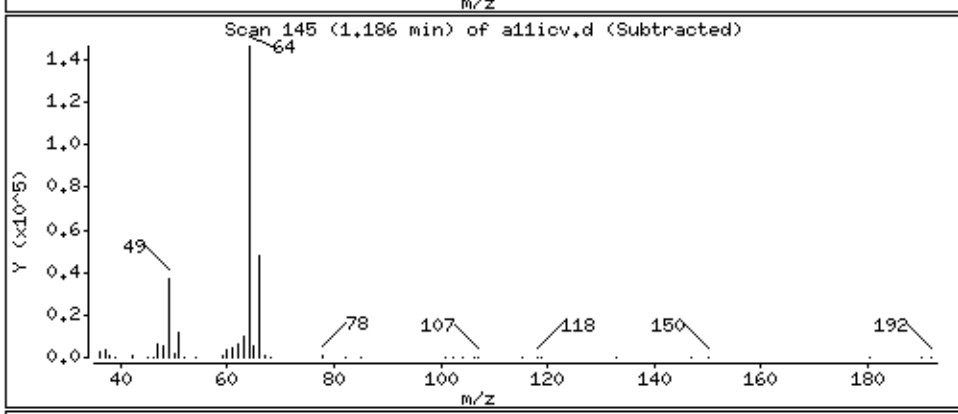
Column diameter: 0.18

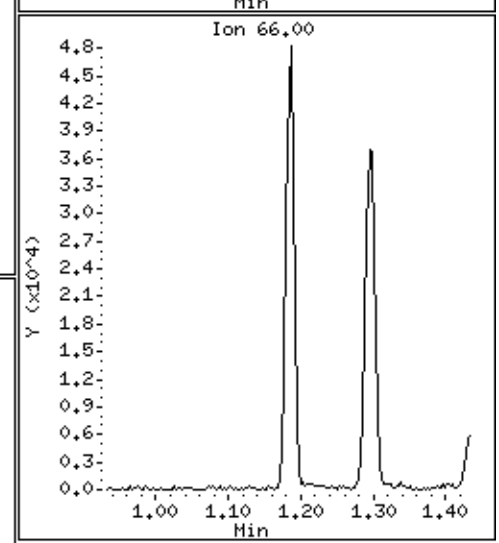
5 Chloroethane

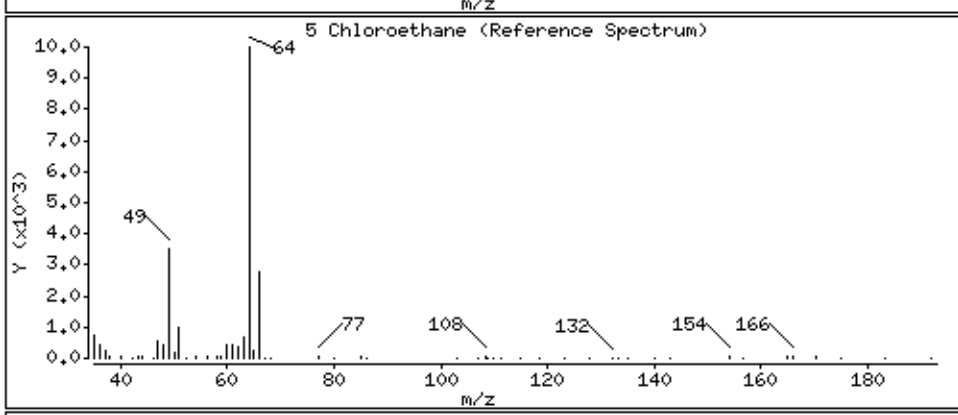
Concentration: 54.4 ppb

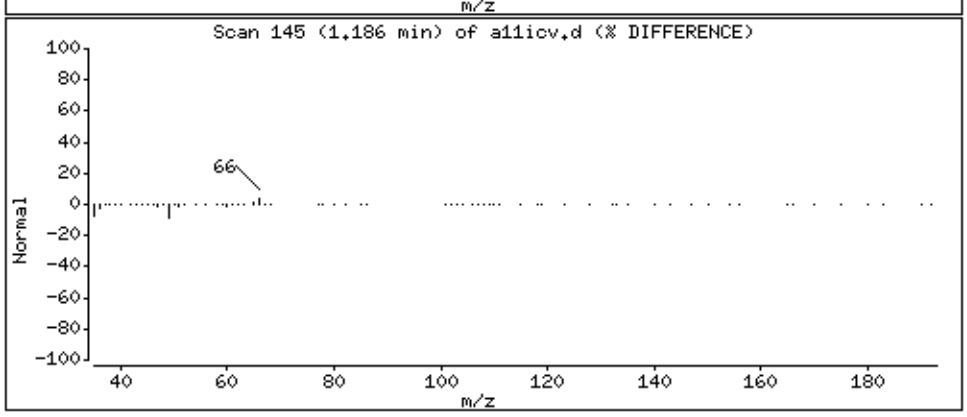












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

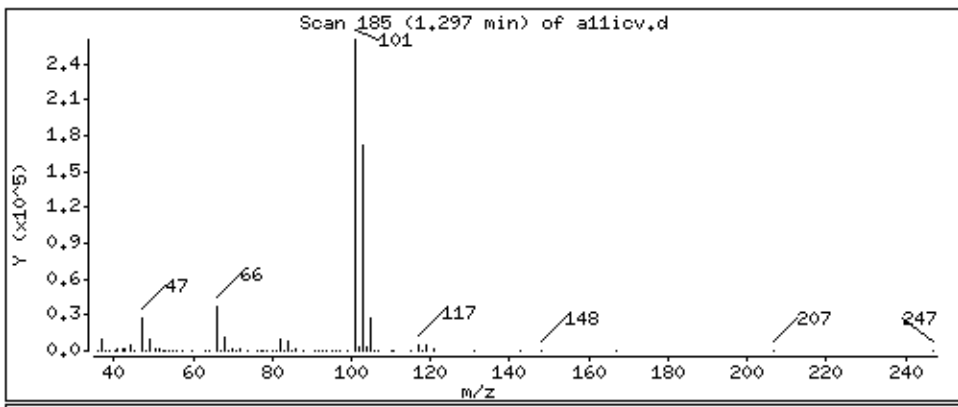
Operator: dae

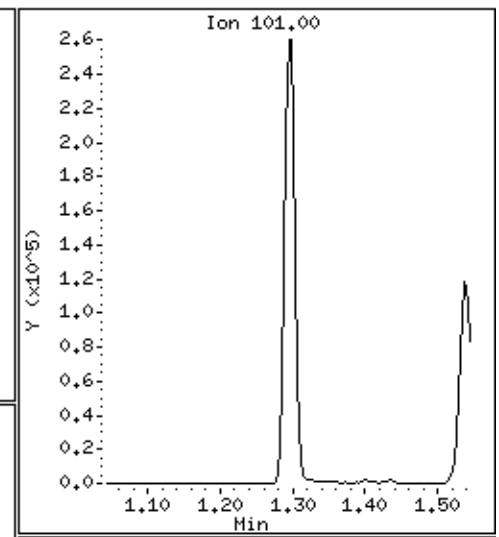
Column phase: DB-624

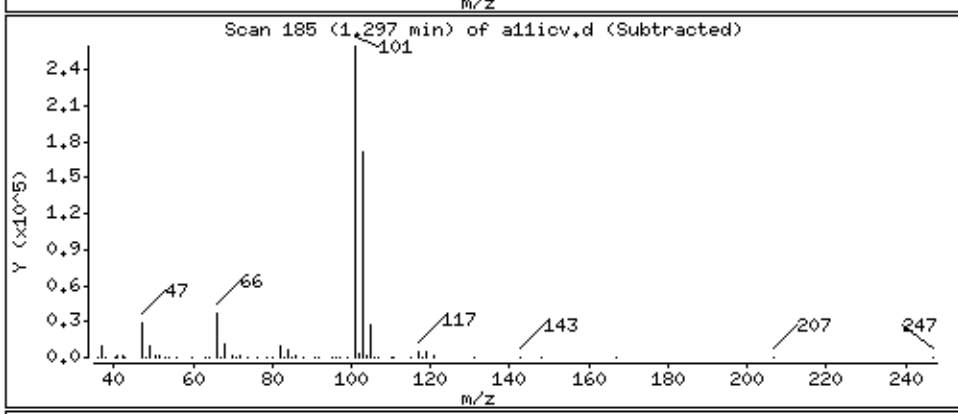
Column diameter: 0.18

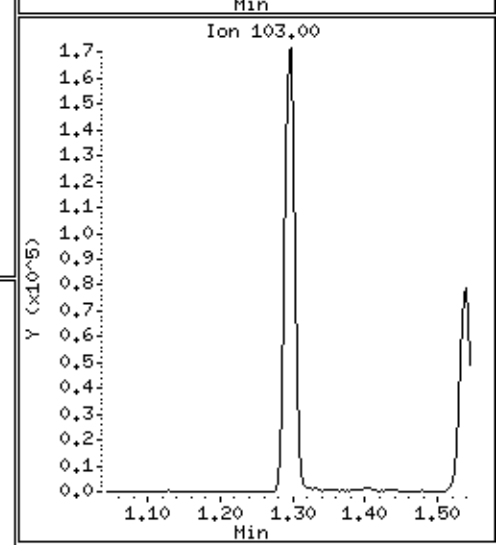
6 Trichlorofluoromethane

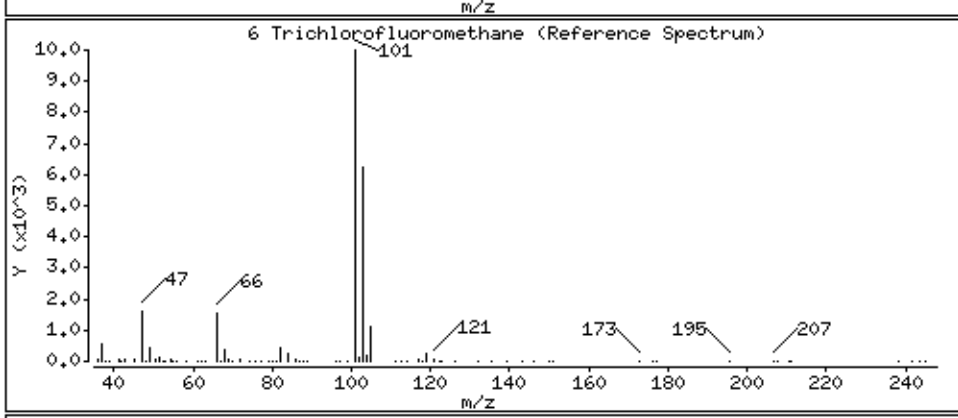
Concentration: 60.6 ppb

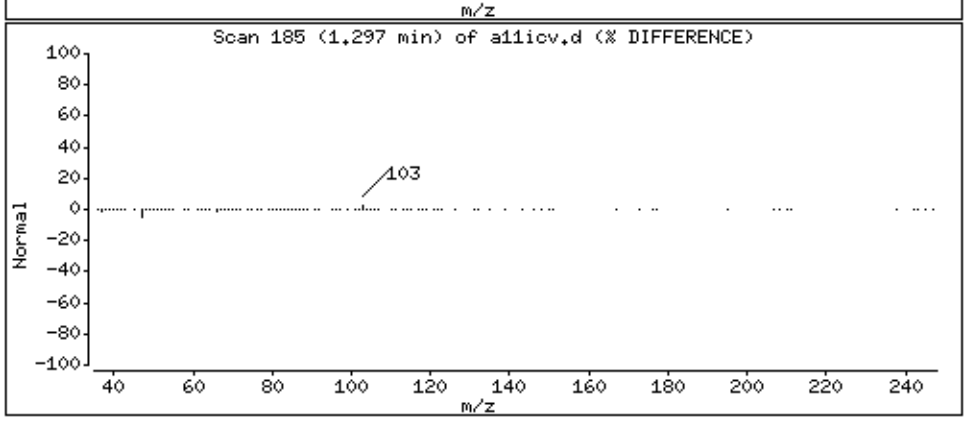












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

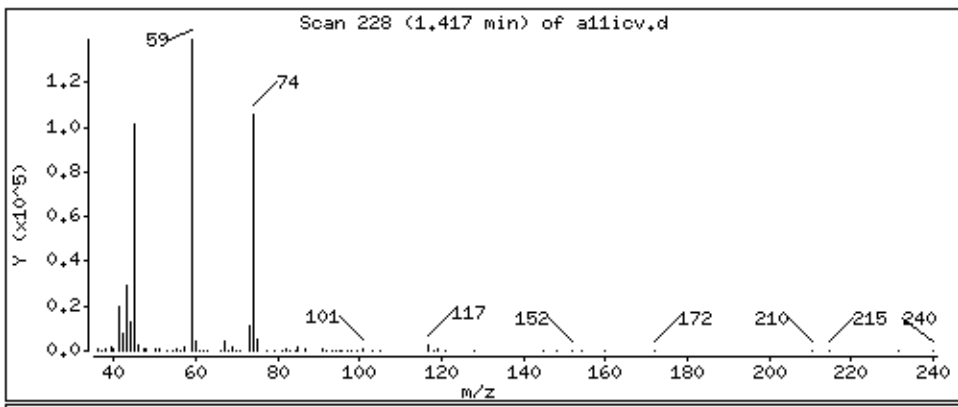
Operator: dae

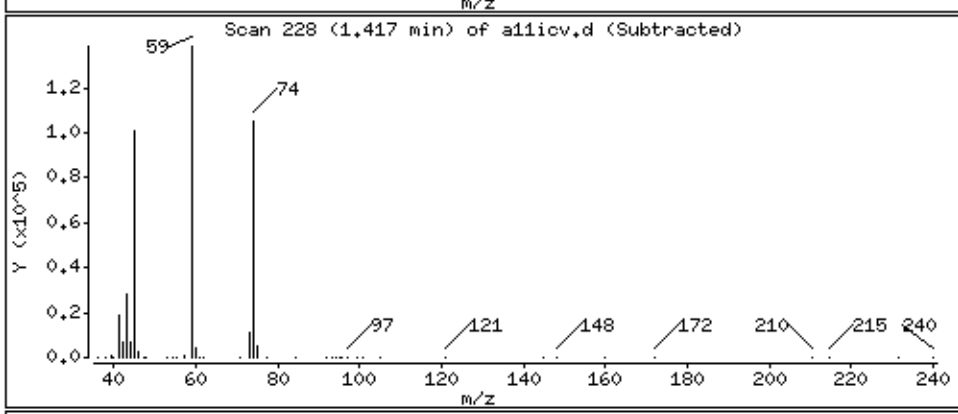
Column phase: DB-624

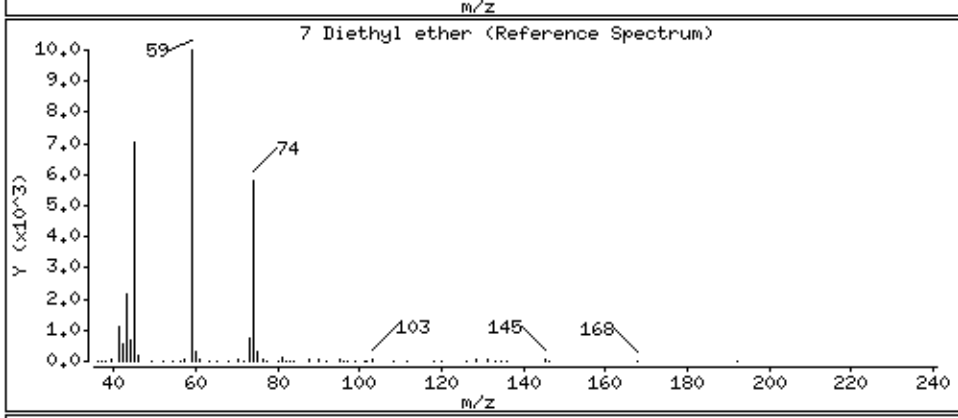
Column diameter: 0.18

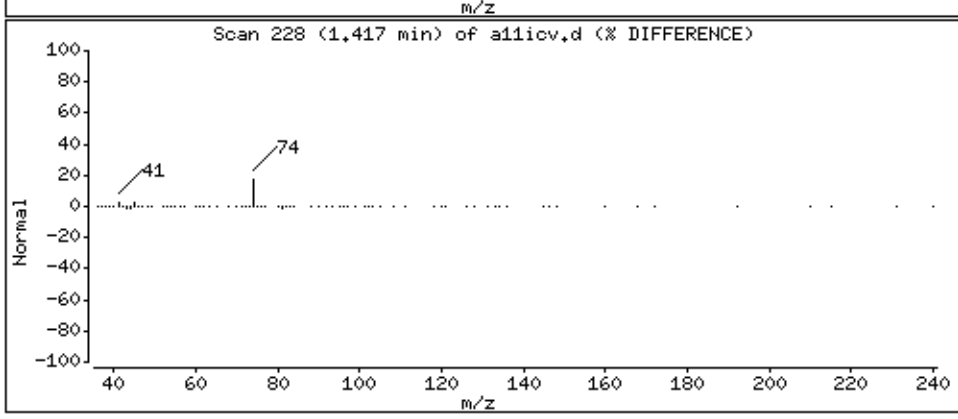
7 Diethyl ether

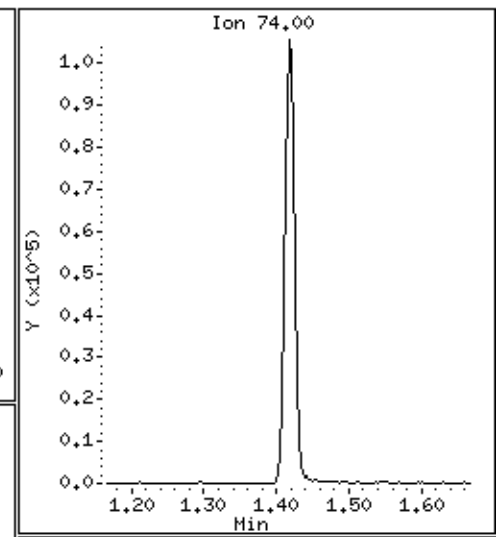
Concentration: 47.8 ppb

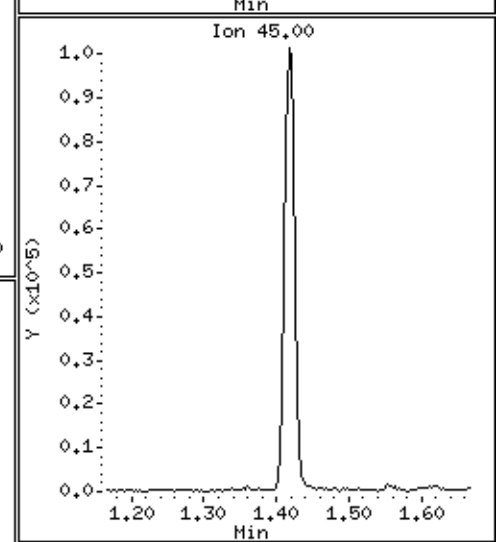


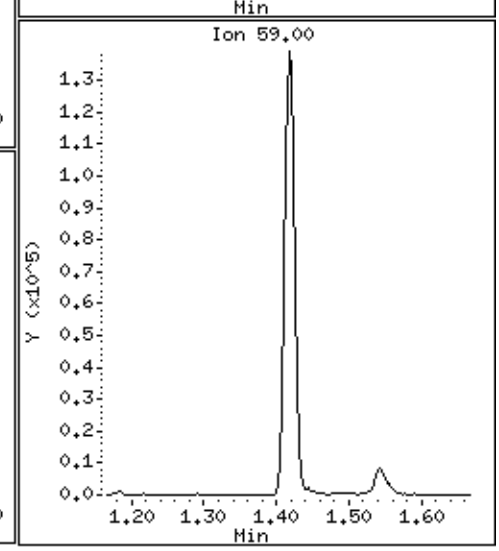












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

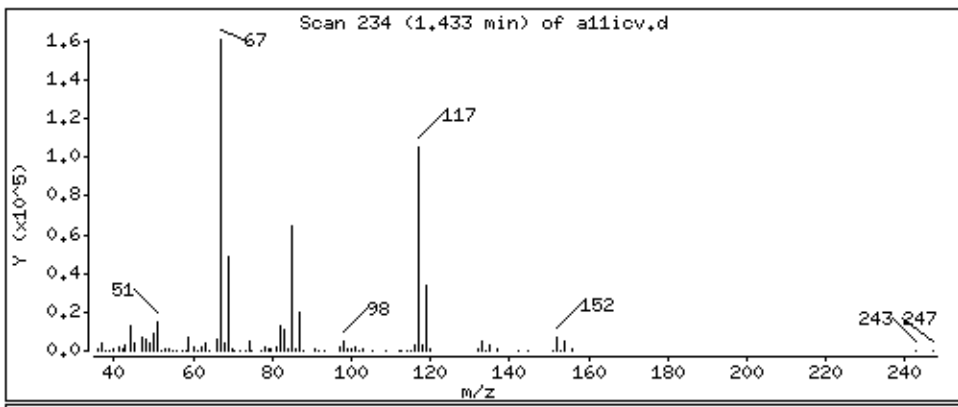
Operator: dae

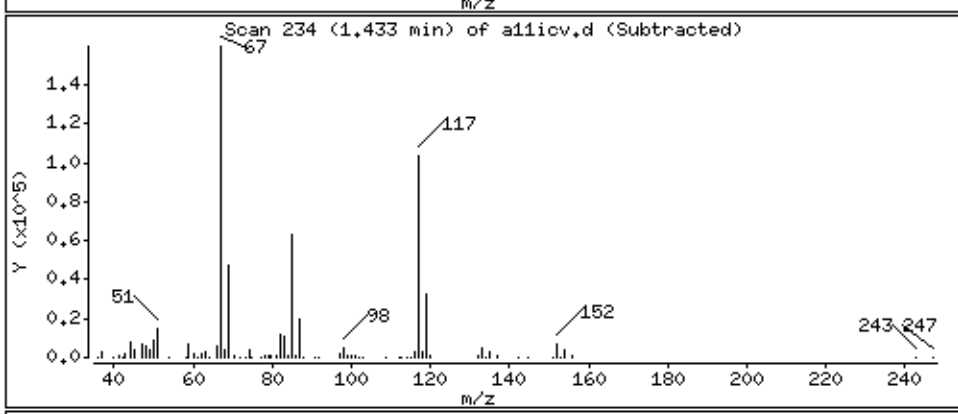
Column phase: DB-624

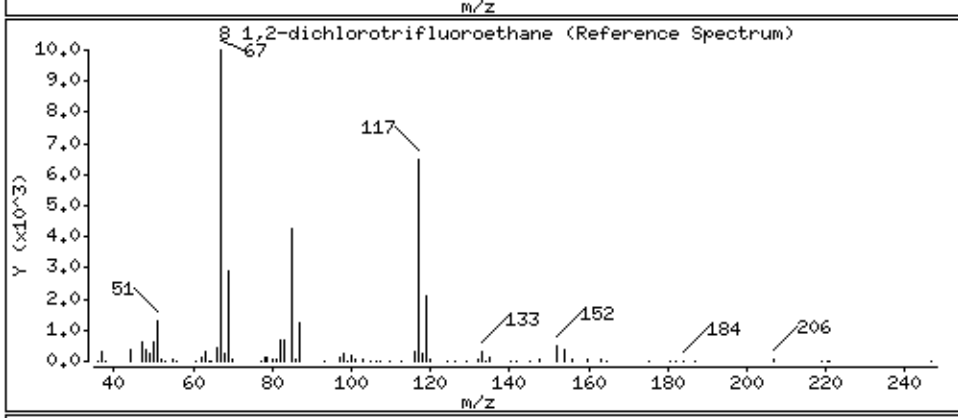
Column diameter: 0.18

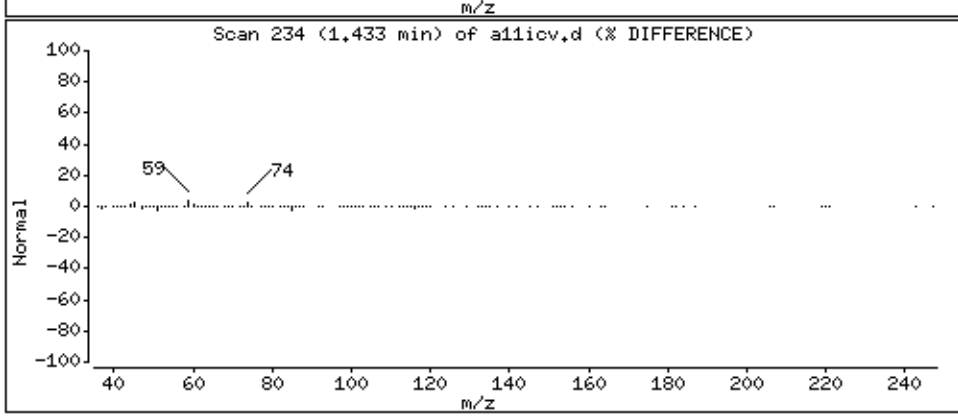
8 1,2-dichlorotrifluoroethane

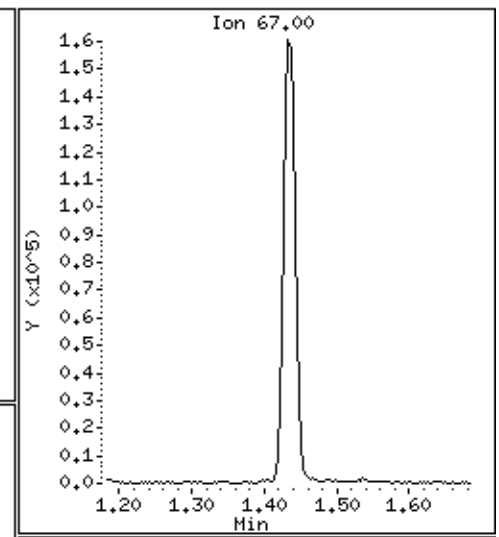
Concentration: 46.2 ppb

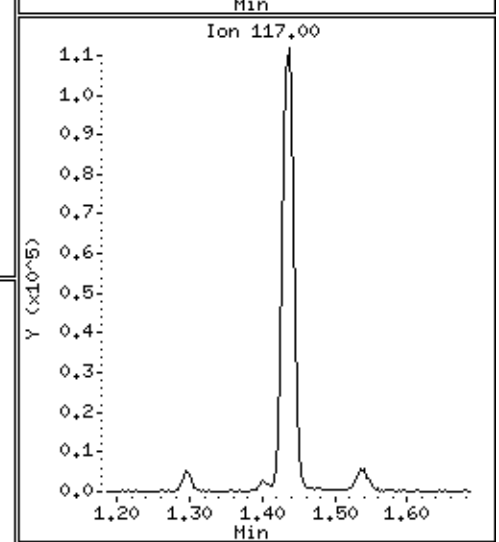


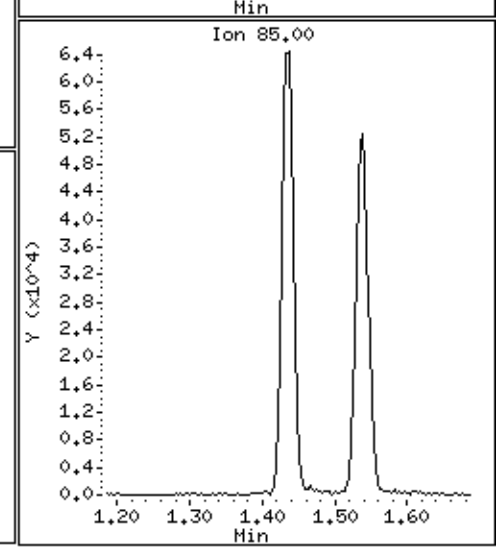












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

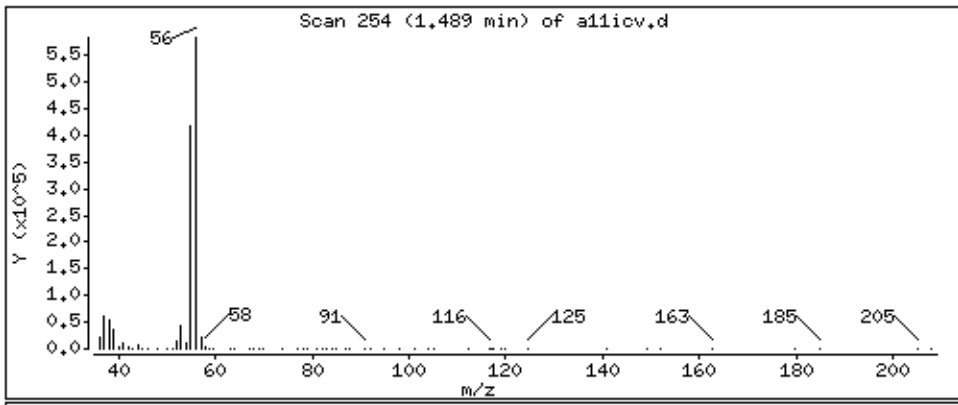
Operator: dae

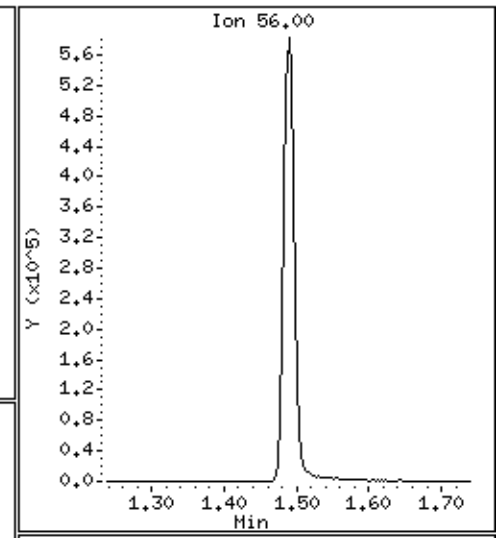
Column phase: DB-624

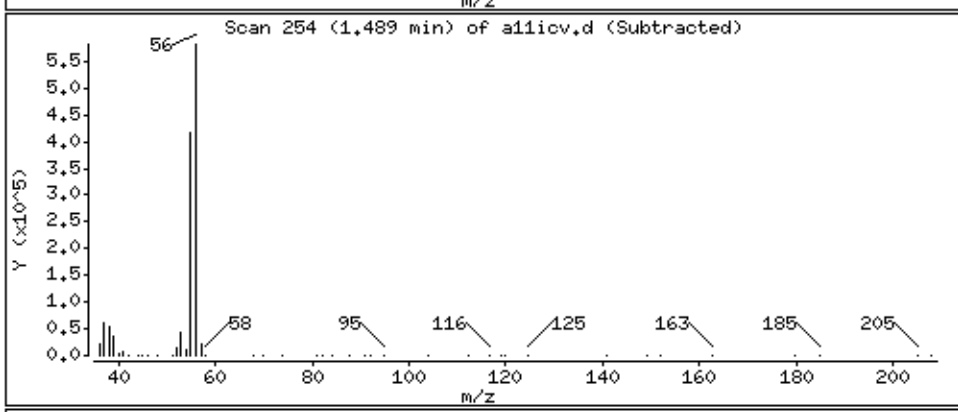
Column diameter: 0.18

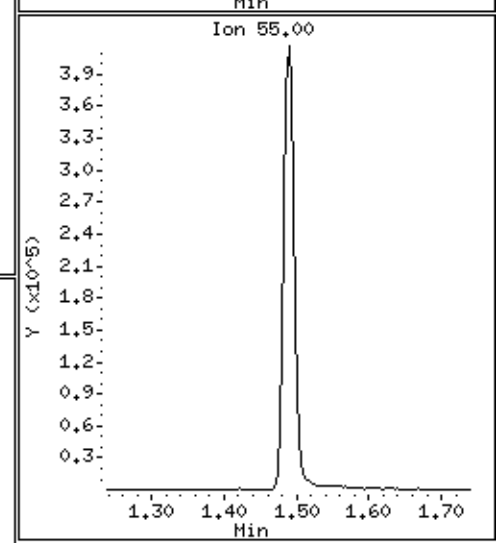
9 Acrolein

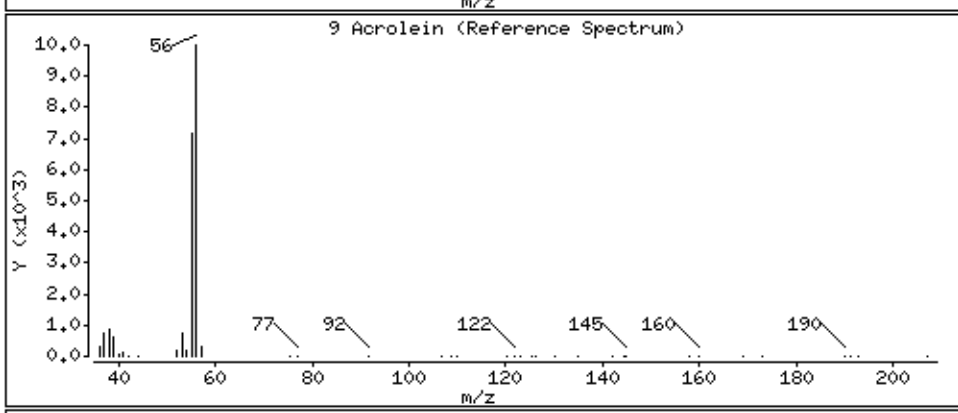
Concentration: 1340 ppb

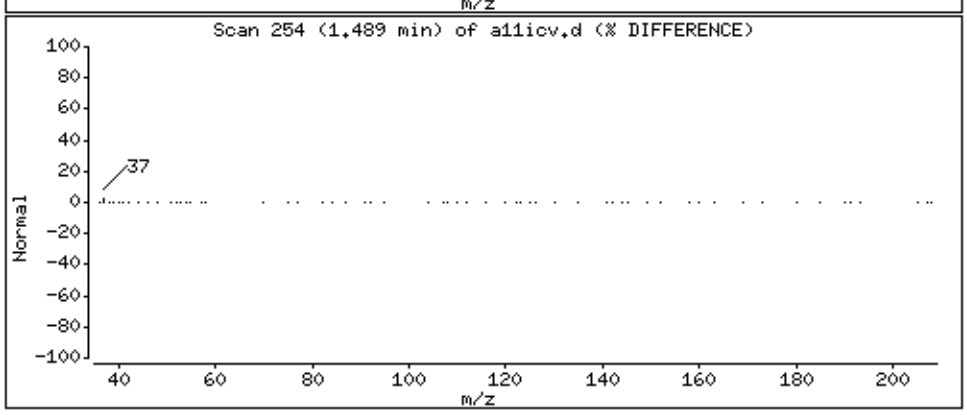












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

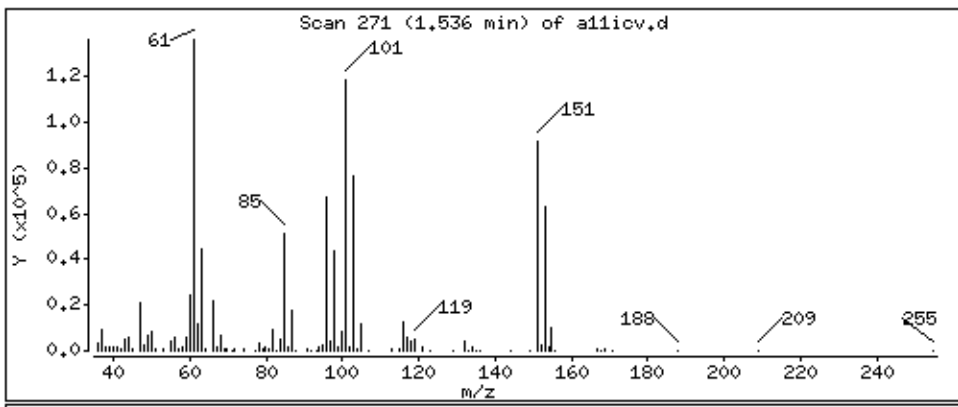
Client ID: 8260-ICV,140434:5 Instrument: 50mv2a.i

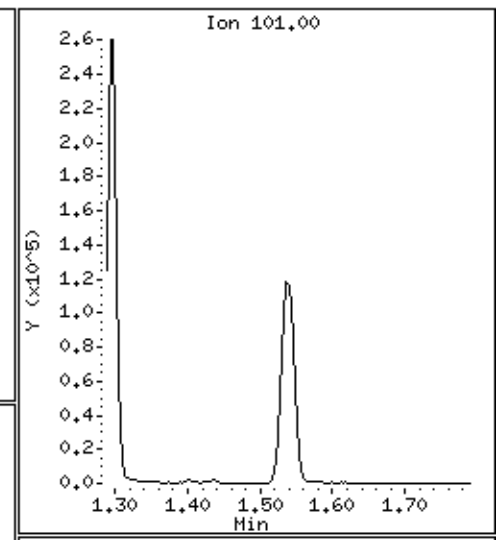
Sample Info: 8260-ICV,140434:5

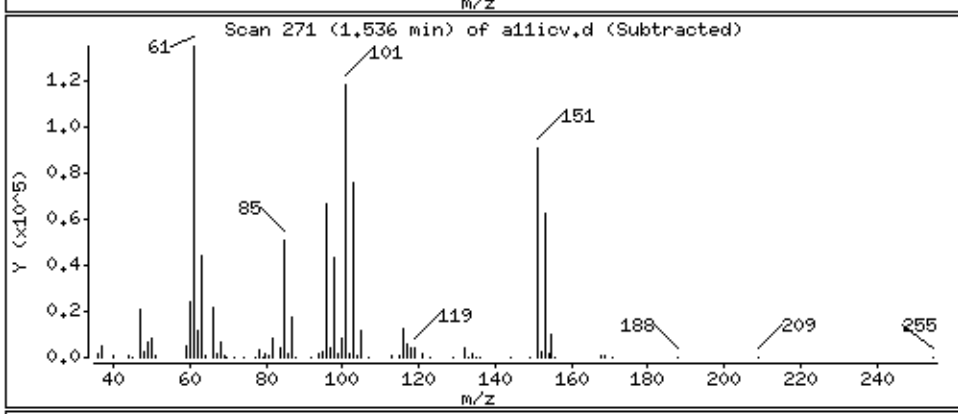
Purge Volume: 5.0 Operator: dae

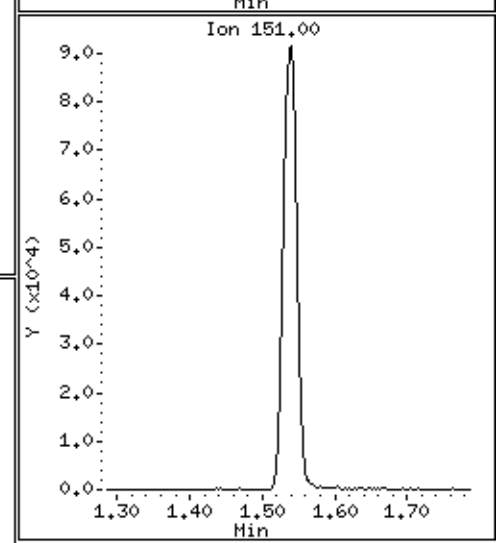
Column phase: DB-624 Column diameter: 0.18

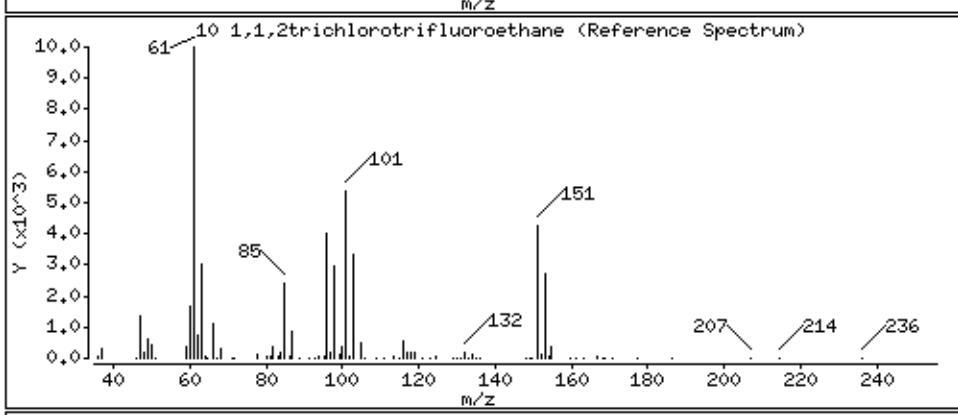
10 1,1,2trichlorotrifluoroethane Concentration: 47.6 ppb

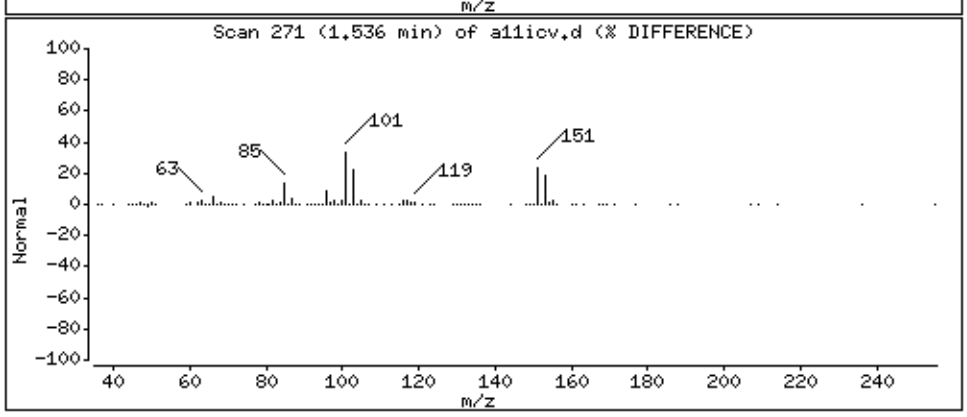












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

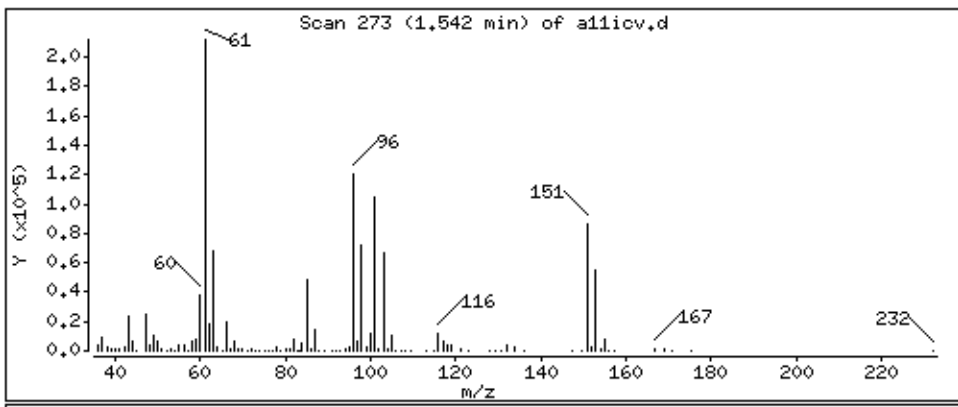
Operator: dae

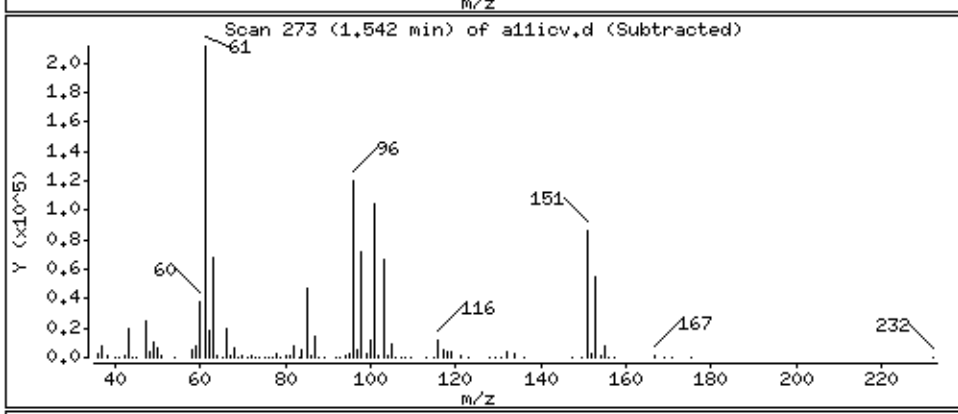
Column phase: DB-624

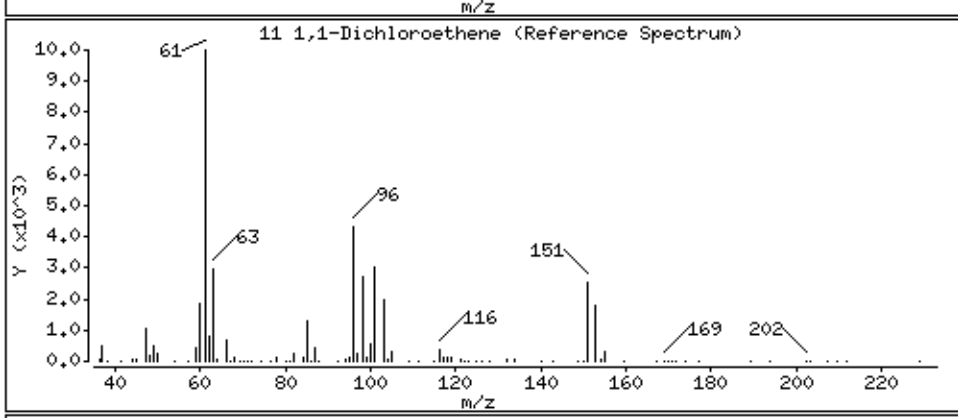
Column diameter: 0.18

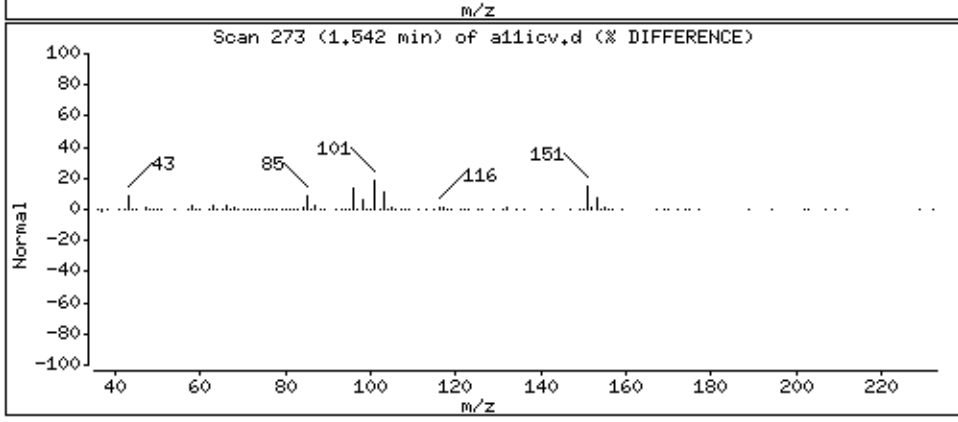
11 1,1-Dichloroethene

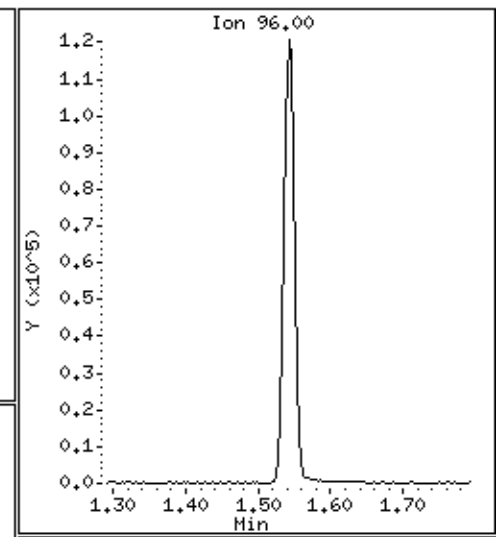
Concentration: 47.0 ppb

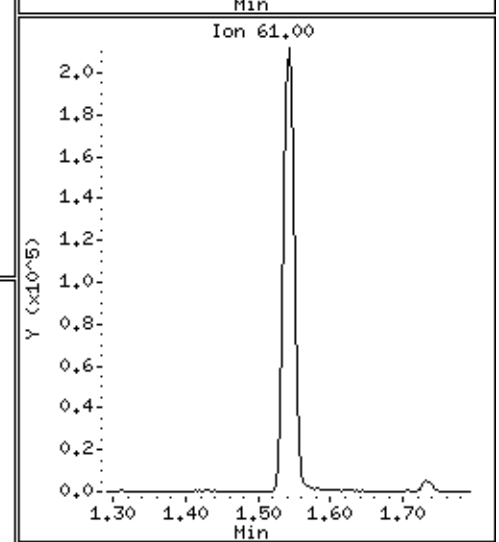


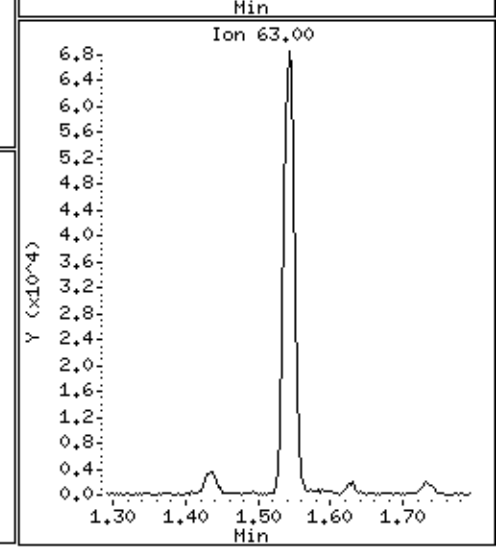












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

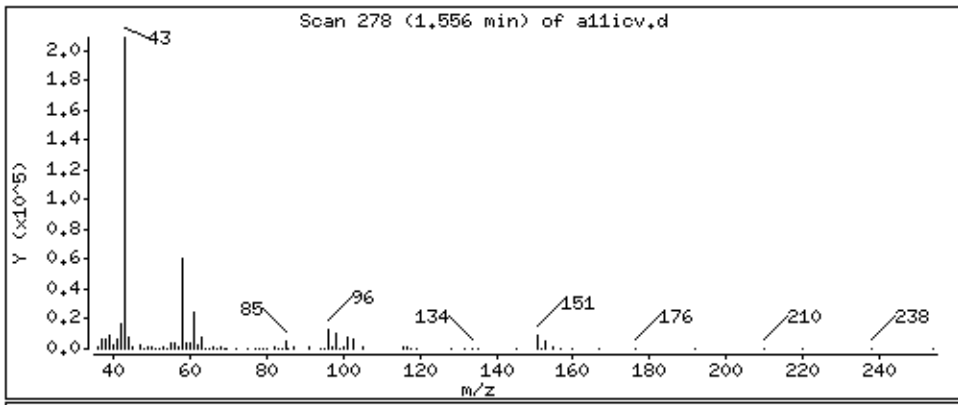
Operator: dae

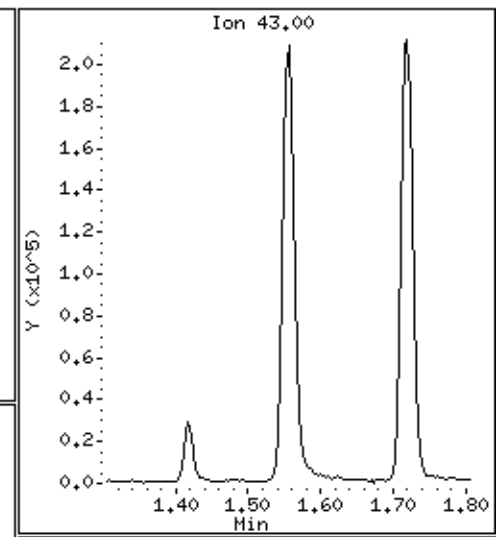
Column phase: DB-624

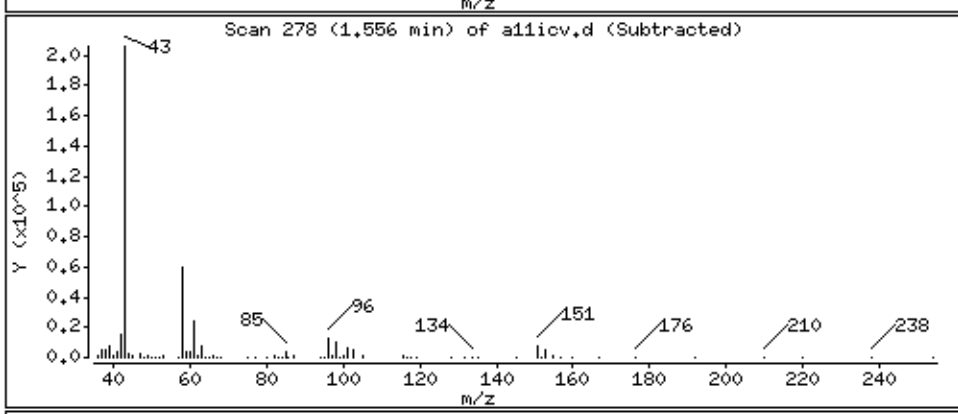
Column diameter: 0.18

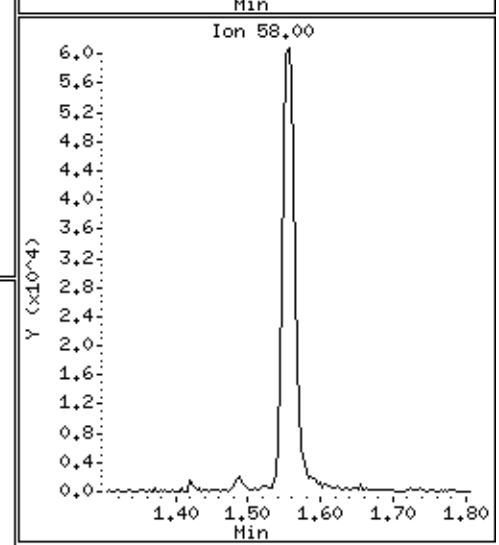
12 Acetone

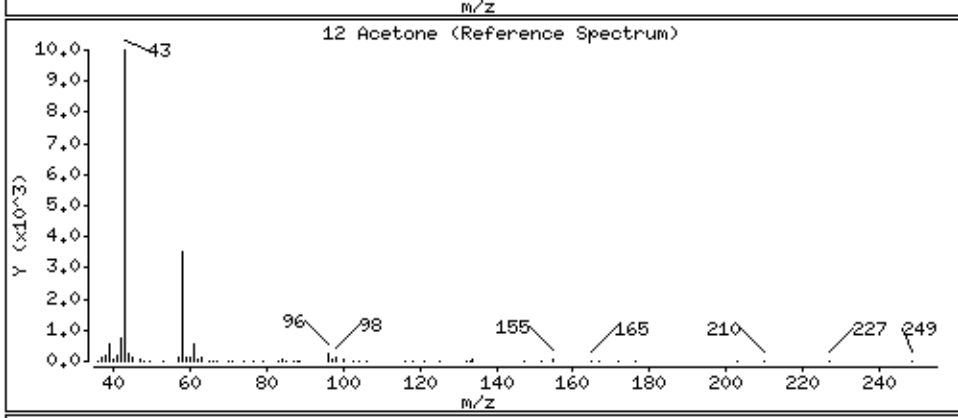
Concentration: 244 ppb

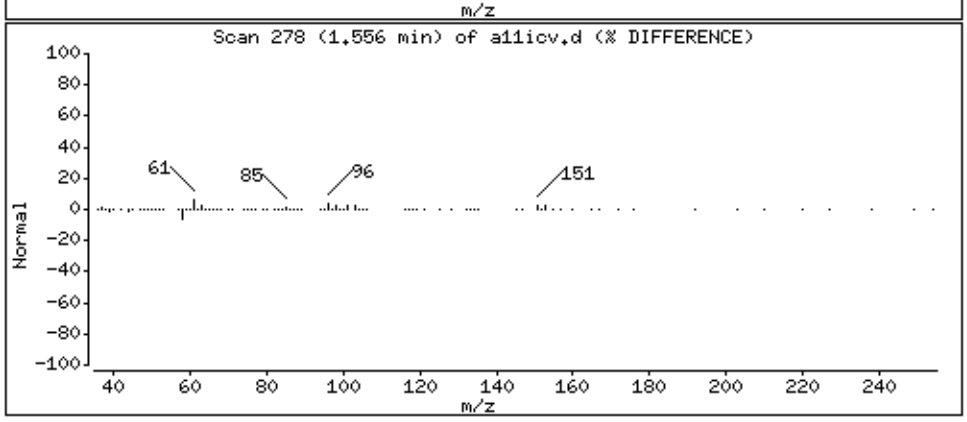












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

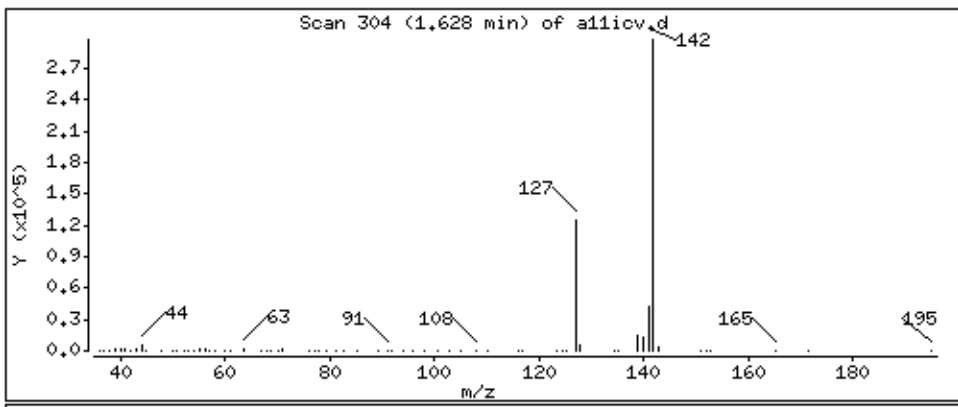
Operator: dae

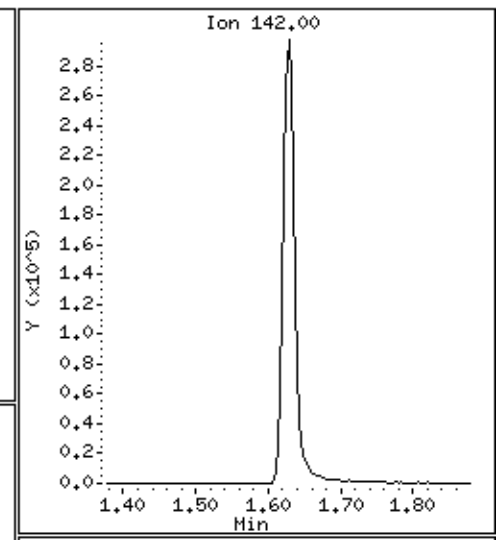
Column phase: DB-624

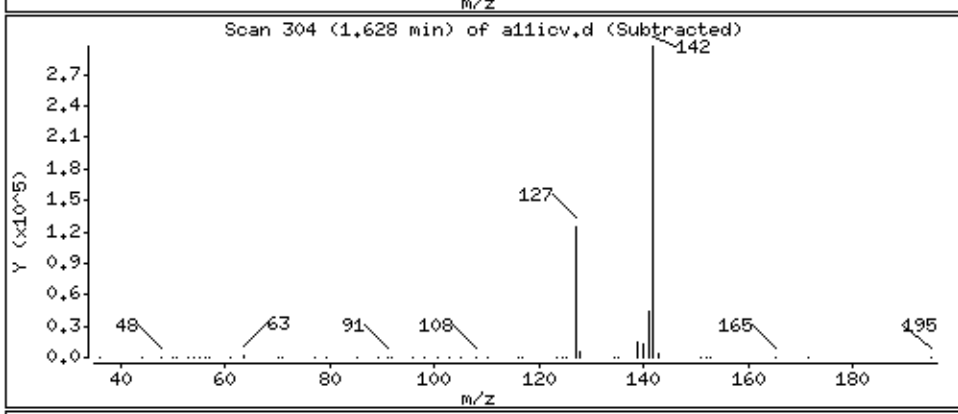
Column diameter: 0.18

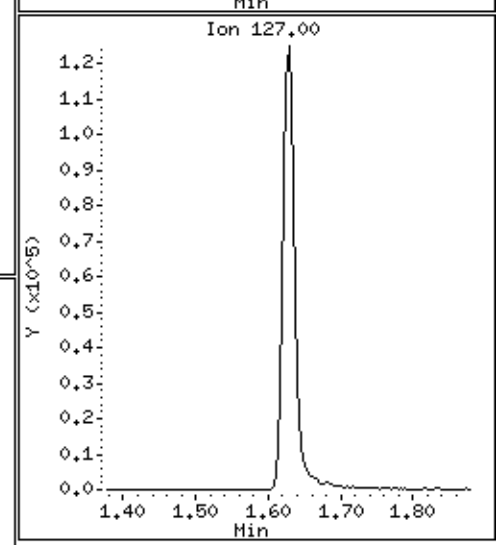
13 Iodomethane

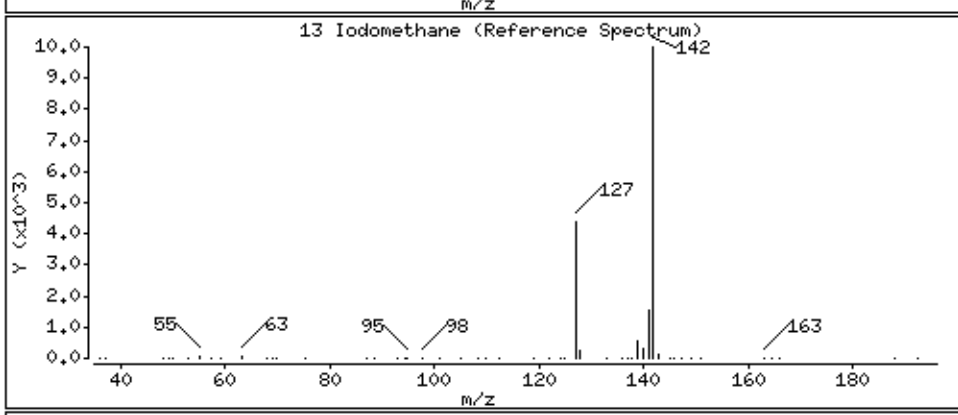
Concentration: 93.4 ppb

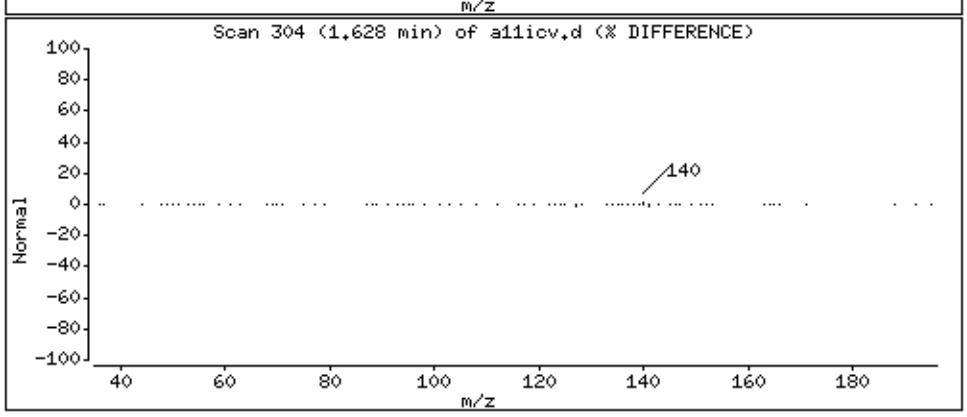












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

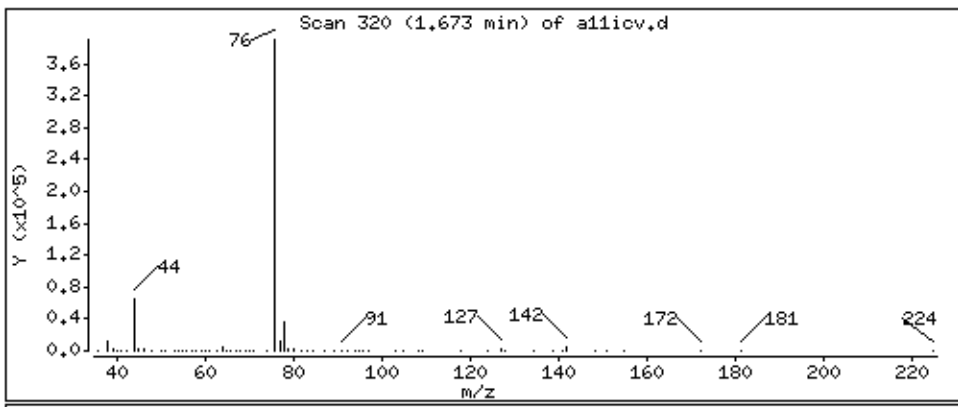
Operator: dae

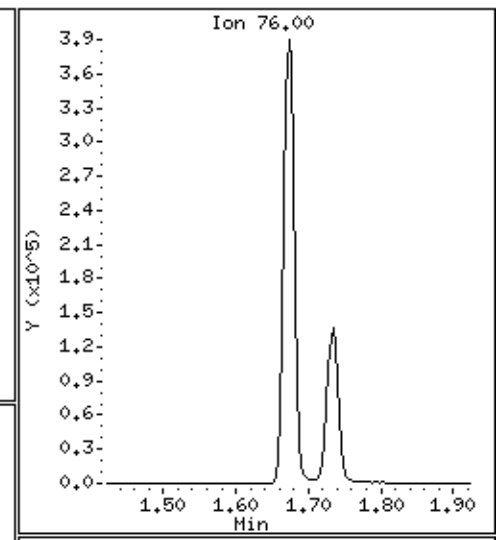
Column phase: DB-624

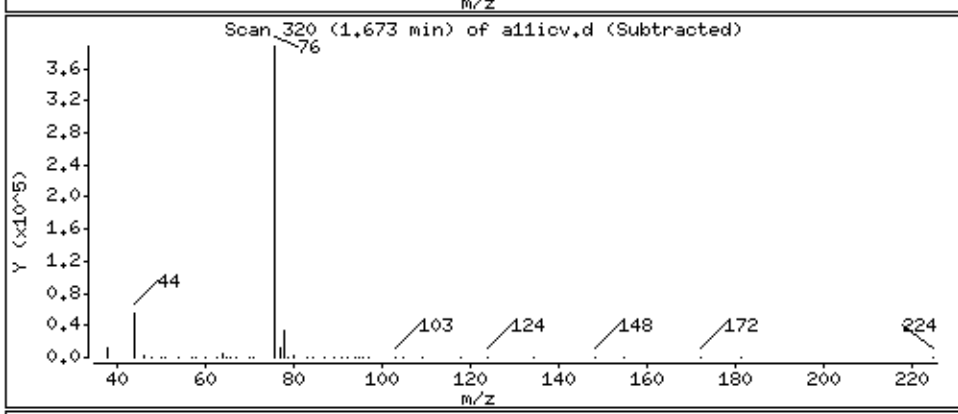
Column diameter: 0.18

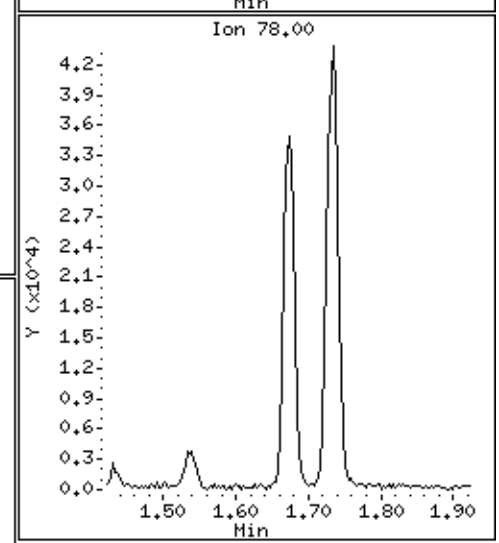
14 Carbon Disulfide

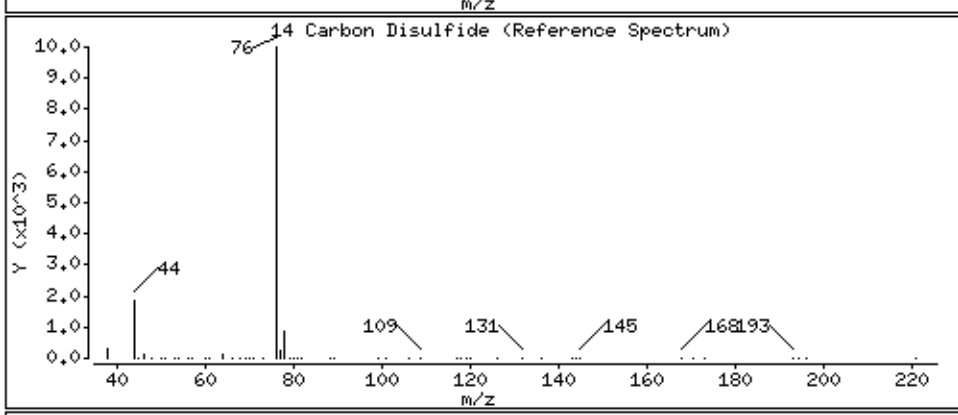
Concentration: 49.8 ppb

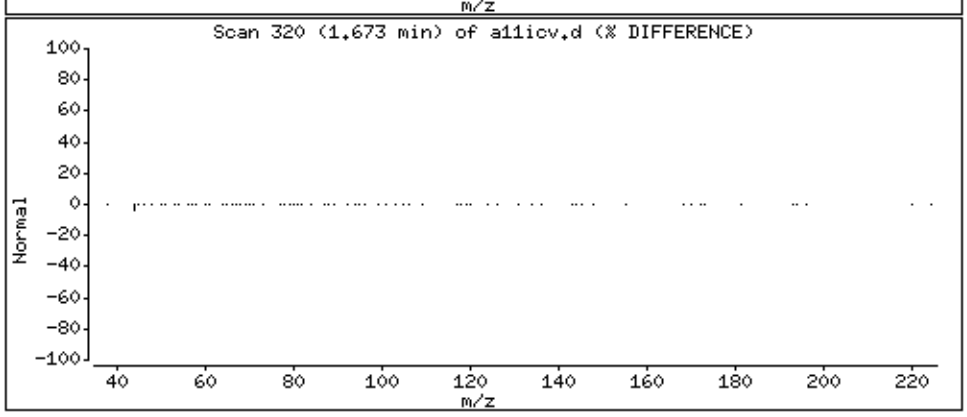












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

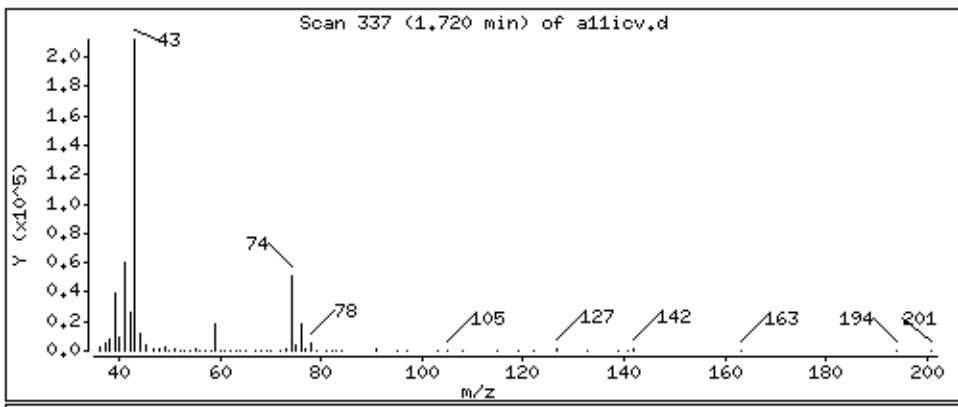
Operator: dae

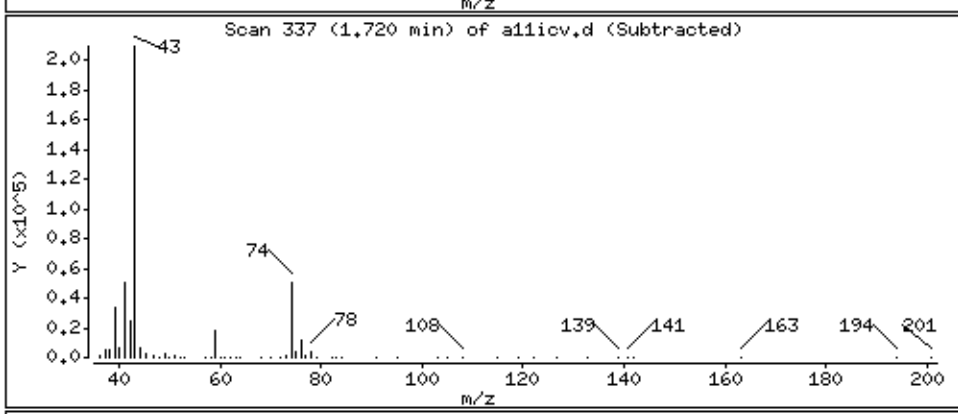
Column phase: DB-624

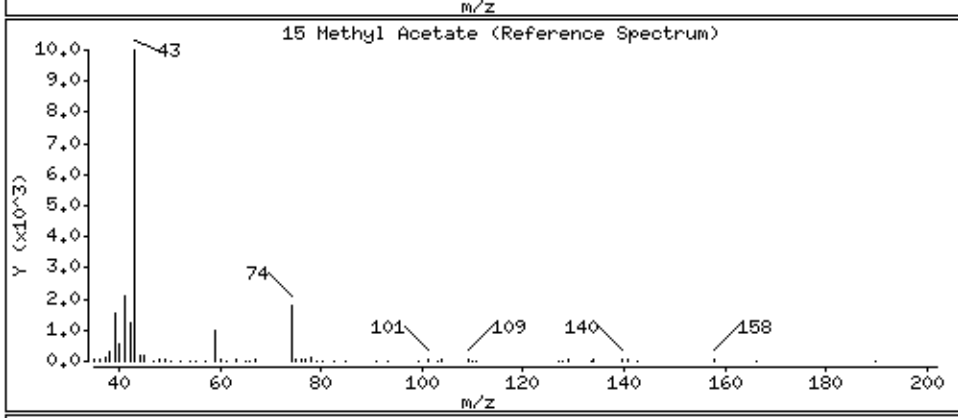
Column diameter: 0.18

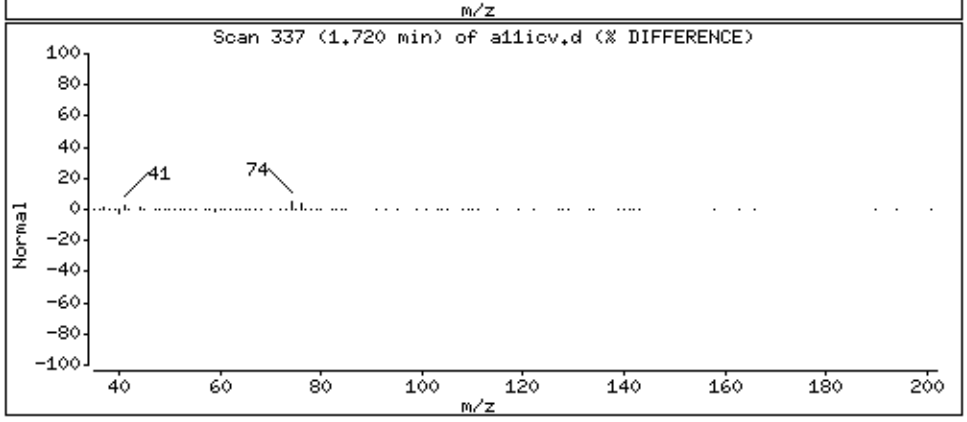
15 Methyl Acetate

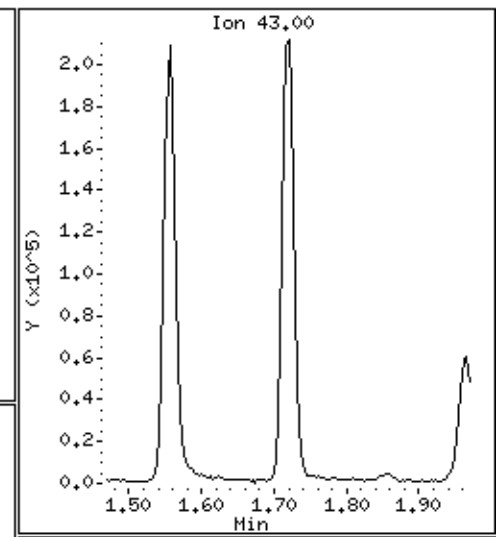
Concentration: 68.1 ppb

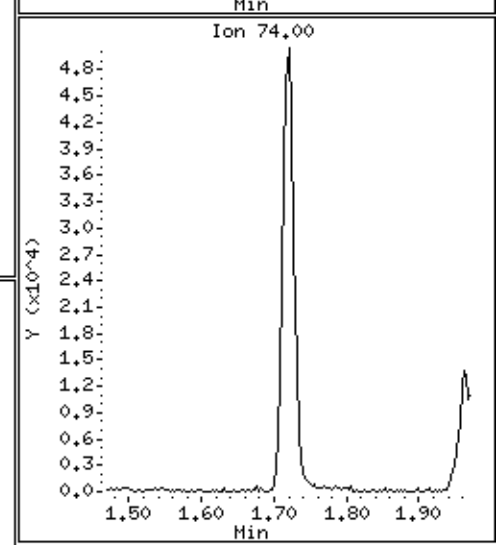












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

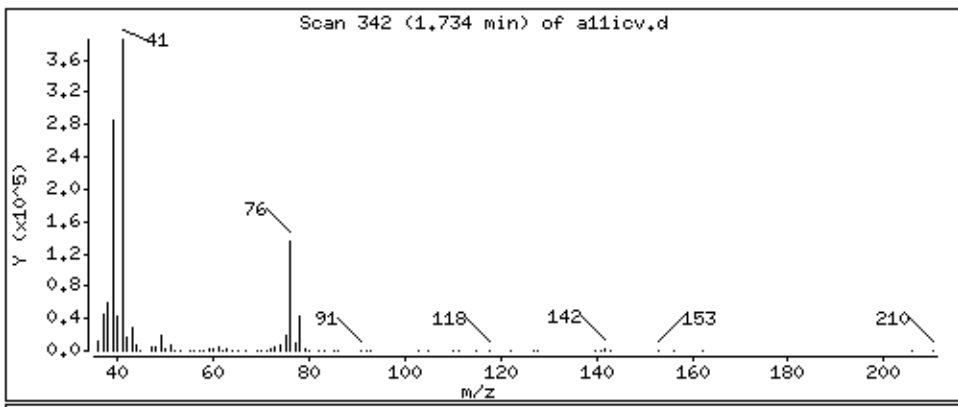
Operator: dae

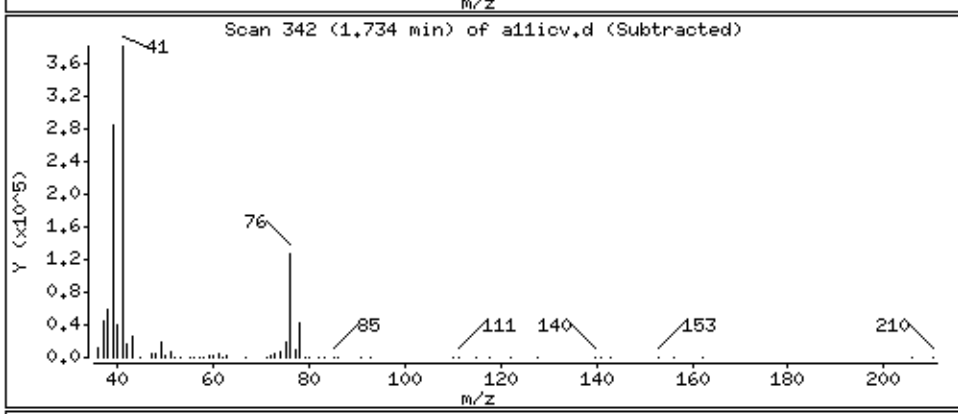
Column phase: DB-624

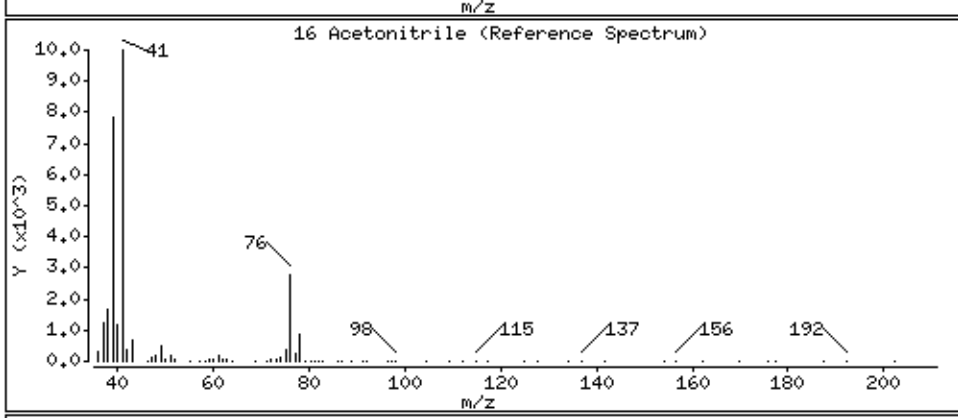
Column diameter: 0.18

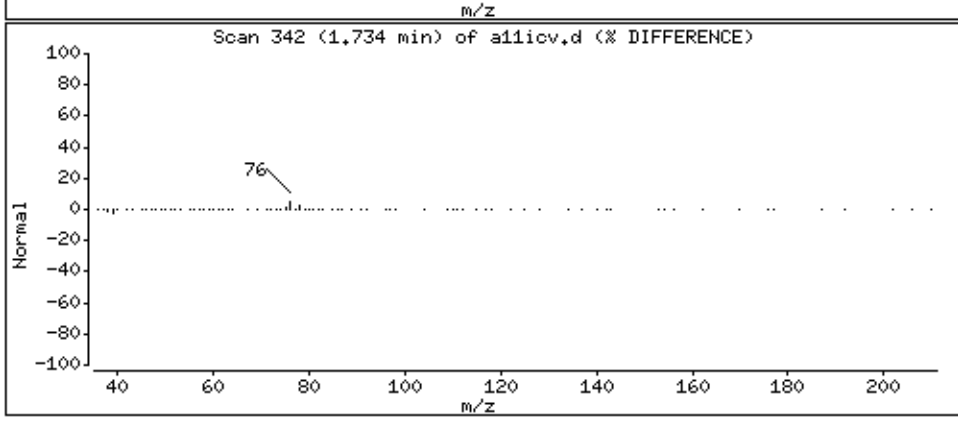
16 Acetonitrile

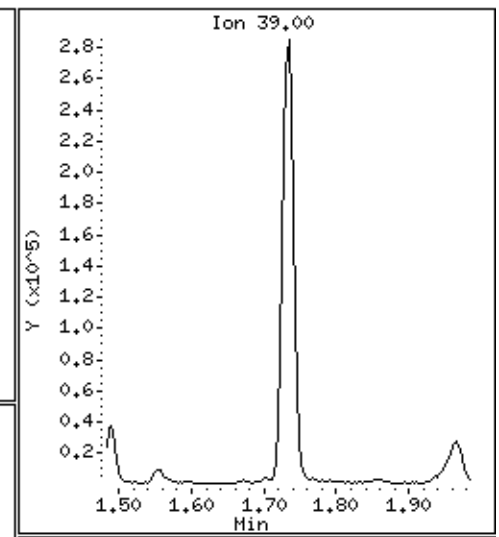
Concentration: 45.4 ppb

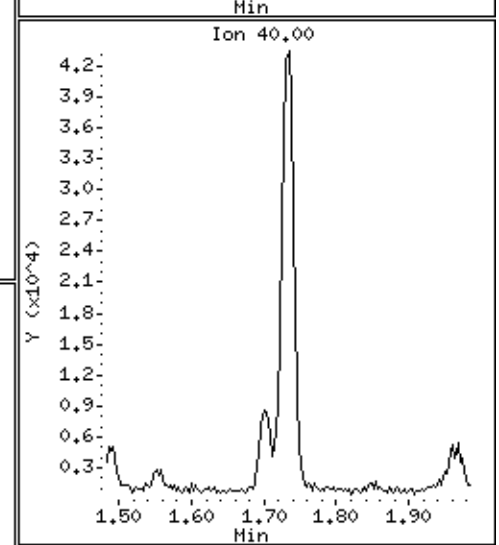


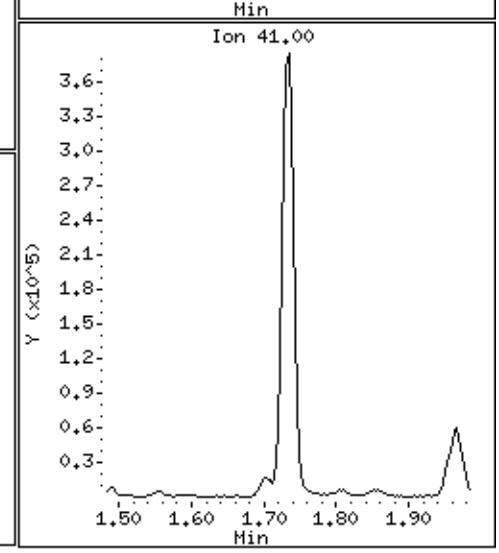












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

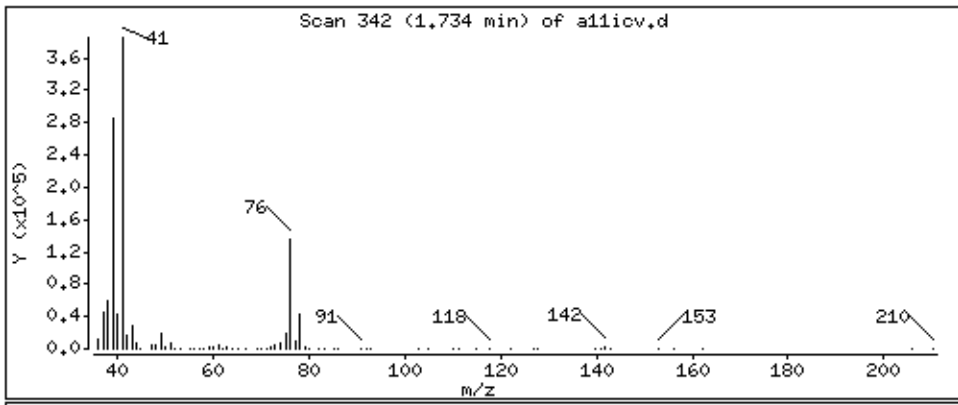
Operator: dae

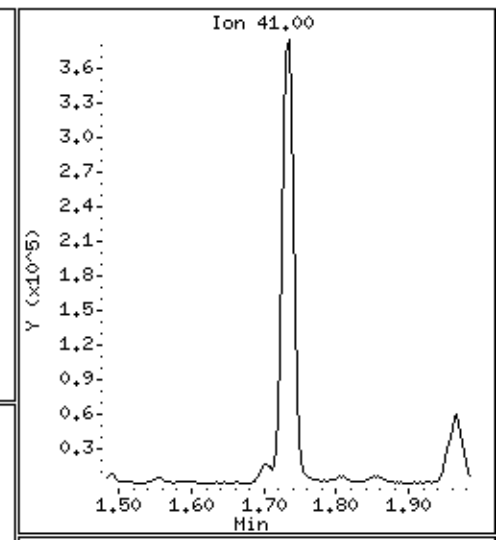
Column phase: DB-624

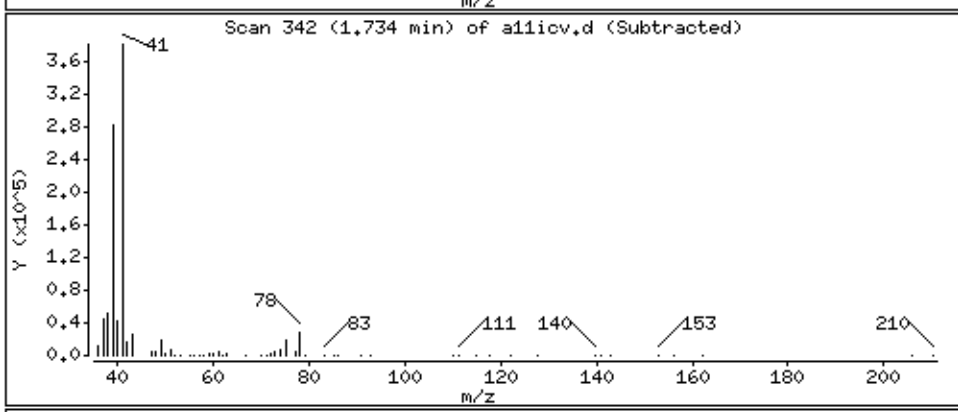
Column diameter: 0.18

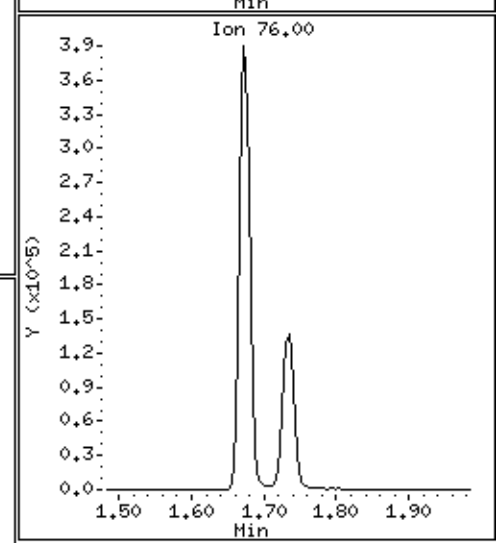
17 allyl chloride

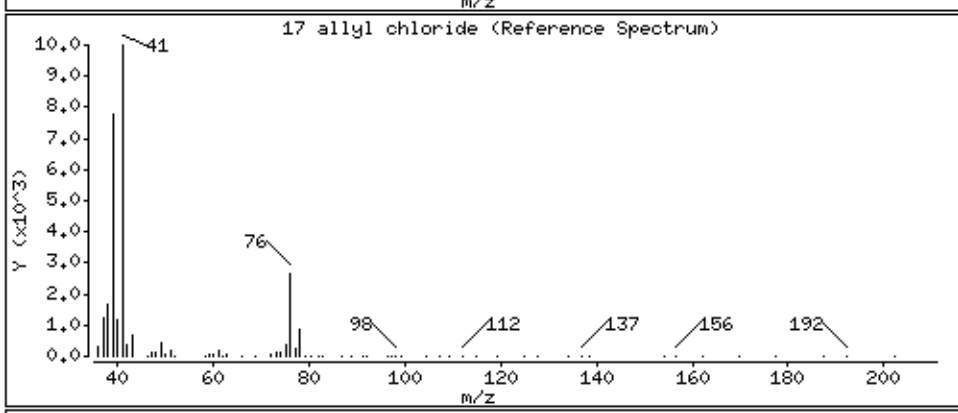
Concentration: 93.2 ppb

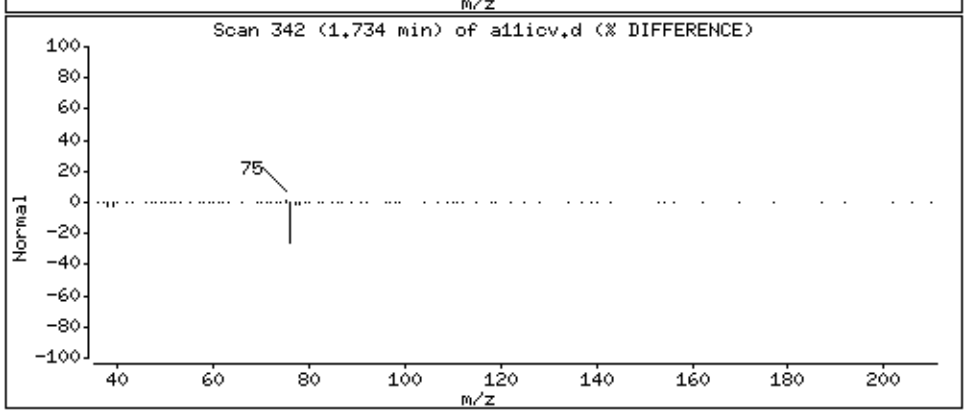












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

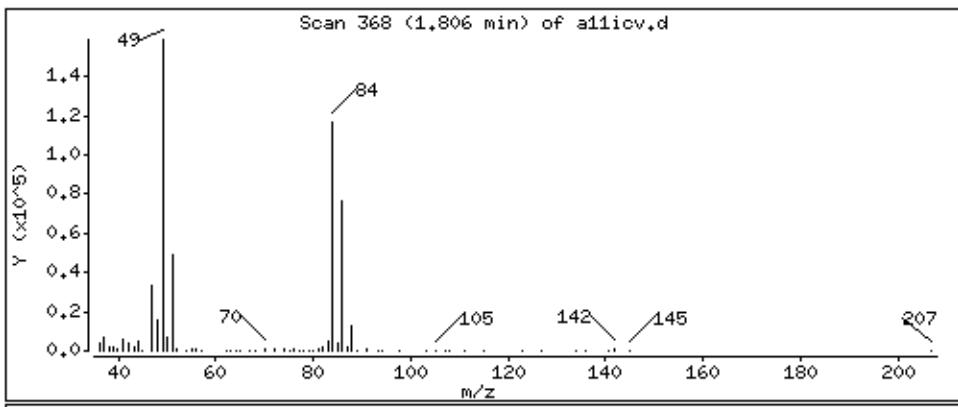
Operator: dae

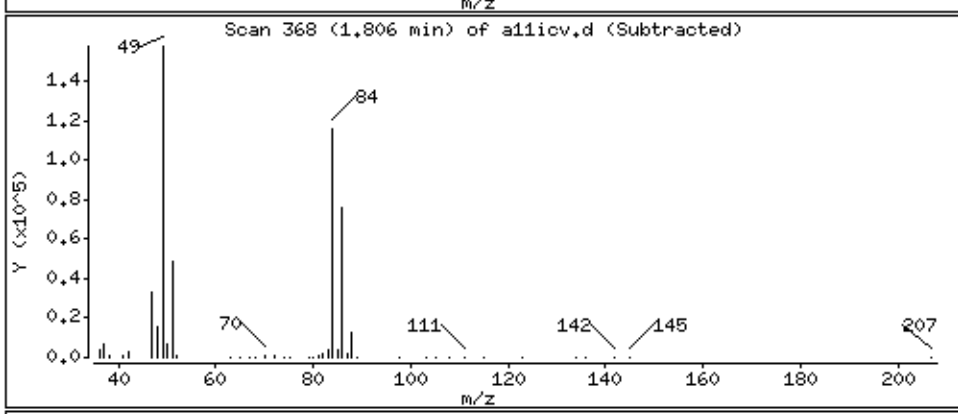
Column phase: DB-624

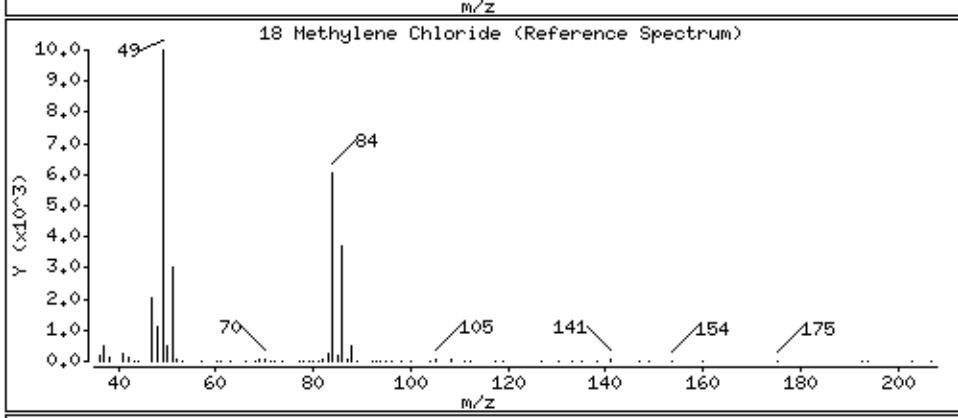
Column diameter: 0.18

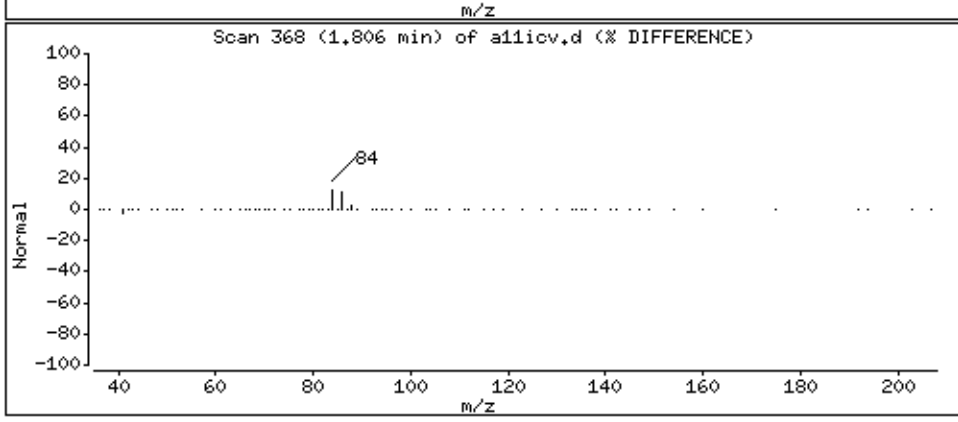
18 Methylene Chloride

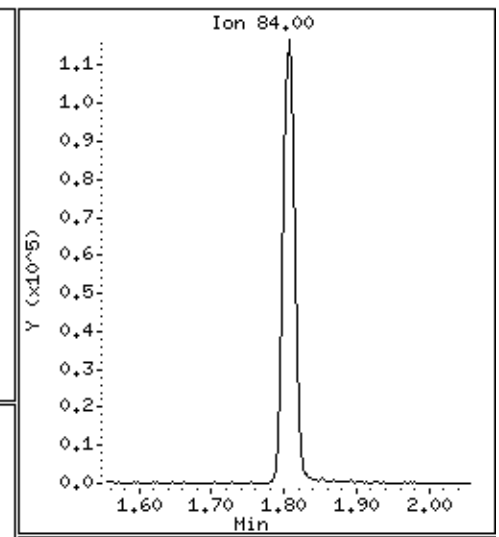
Concentration: 51.4 ppb

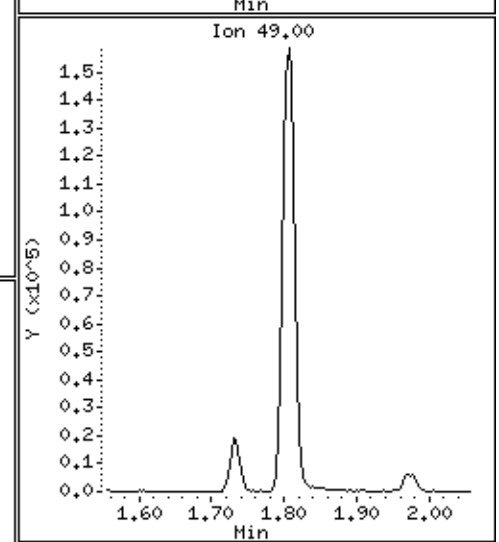


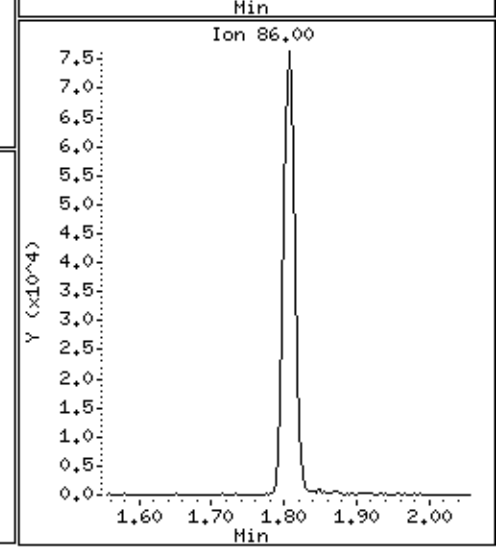












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

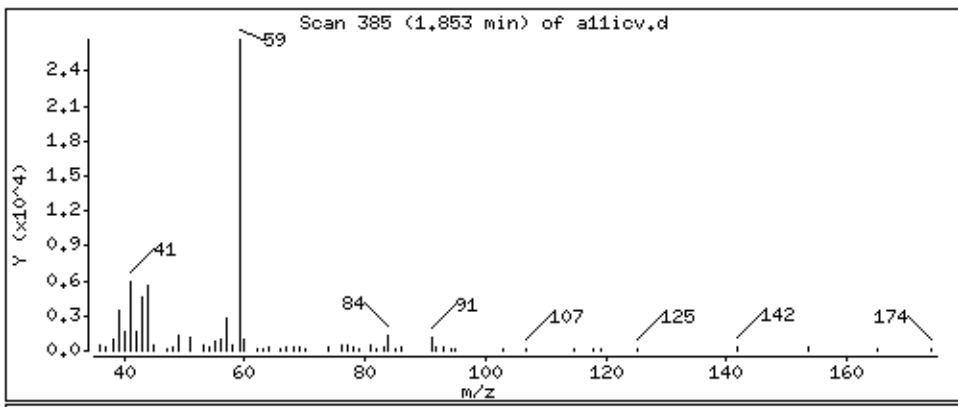
Operator: dae

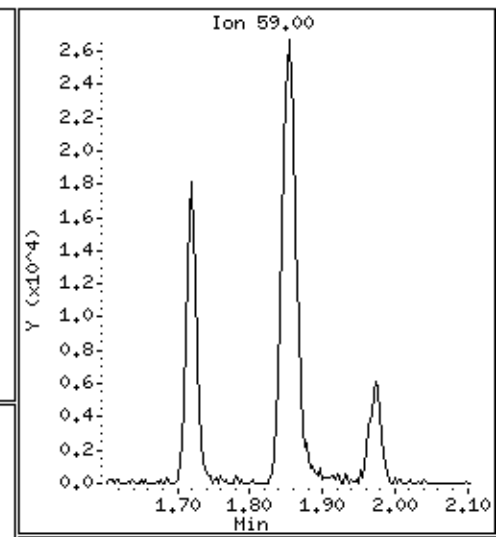
Column phase: DB-624

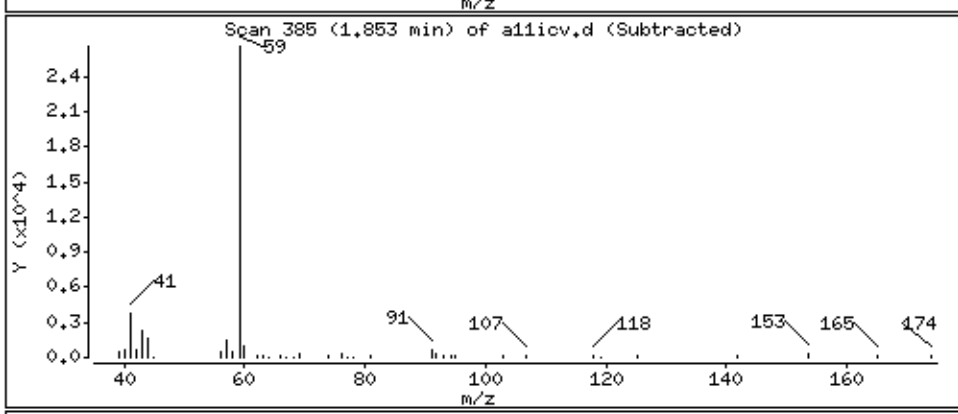
Column diameter: 0.18

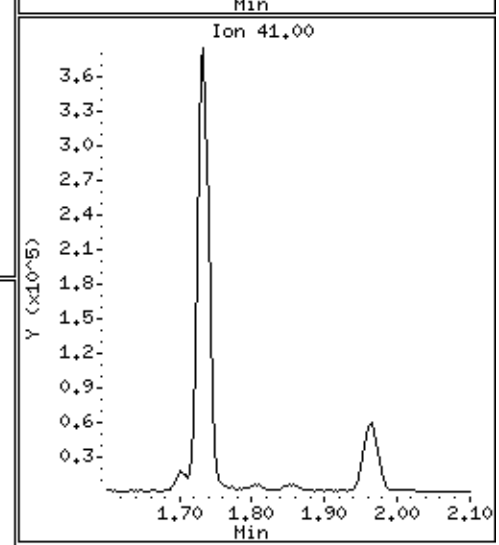
19 tert-Butyl Alcohol

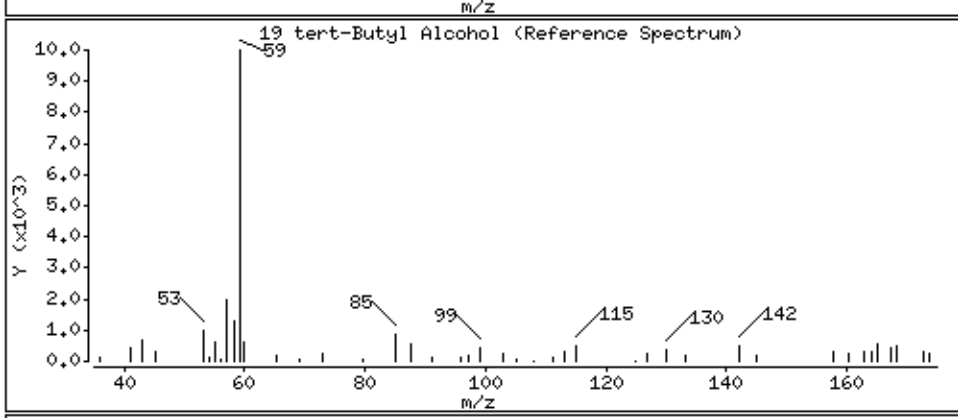
Concentration: 114 ppb

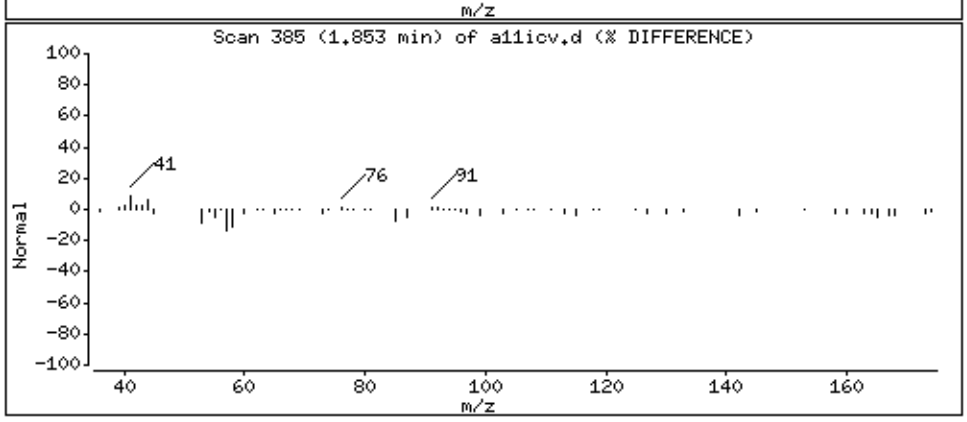












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

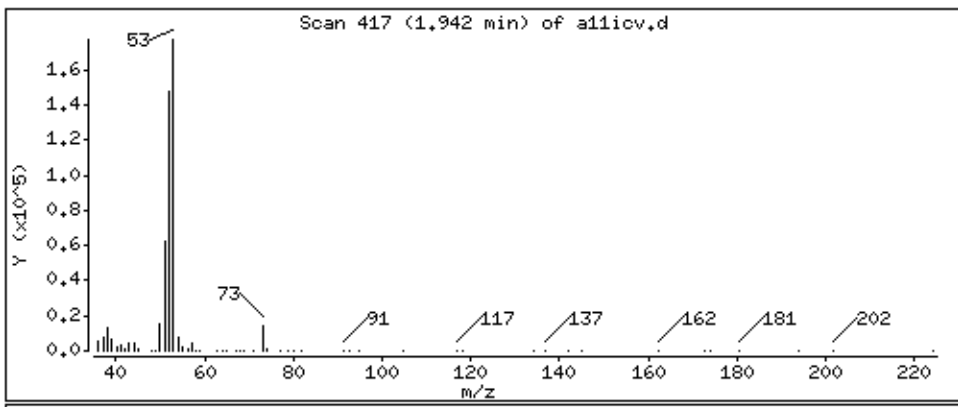
Operator: dae

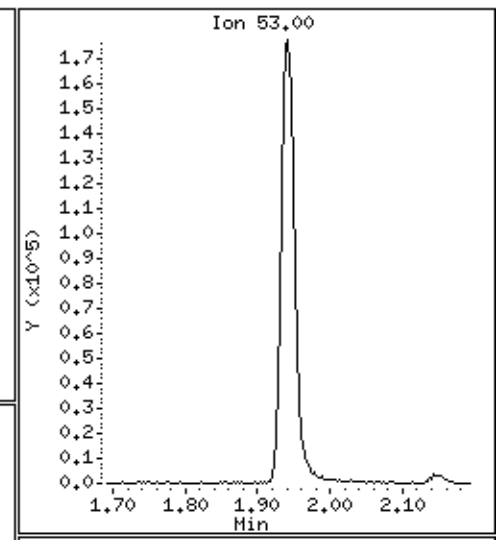
Column phase: DB-624

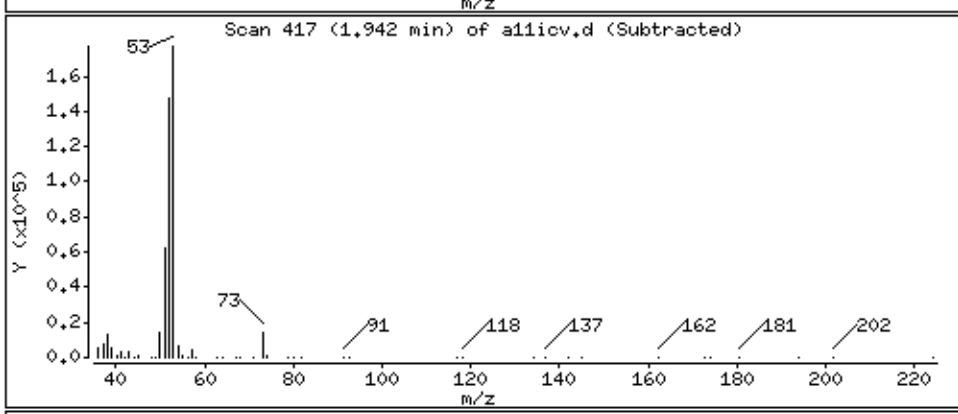
Column diameter: 0.18

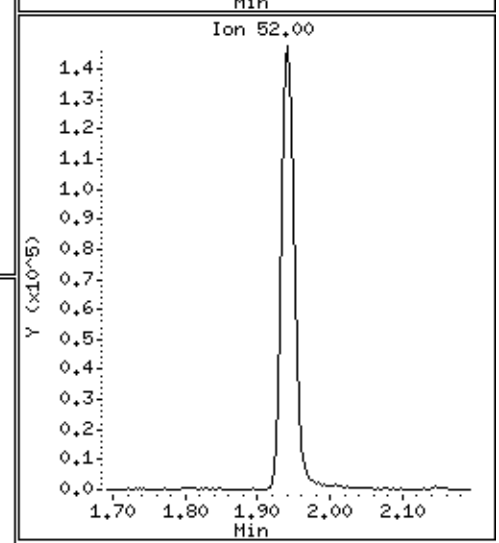
20 Acrylonitrile

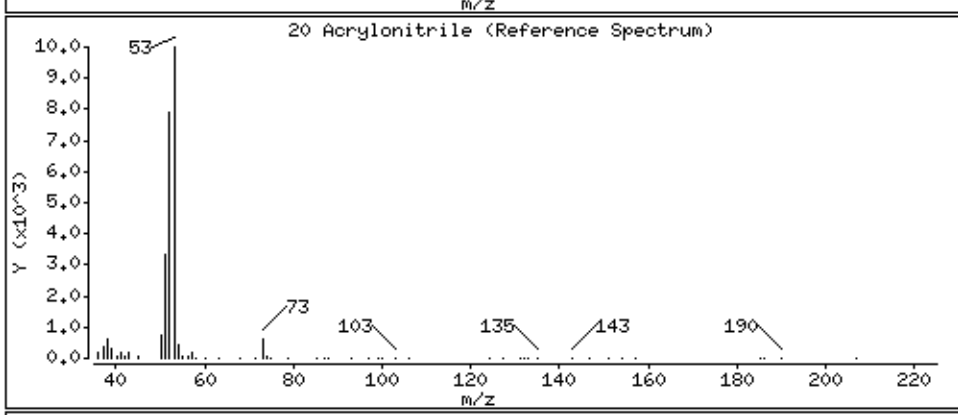
Concentration: 193 ppb

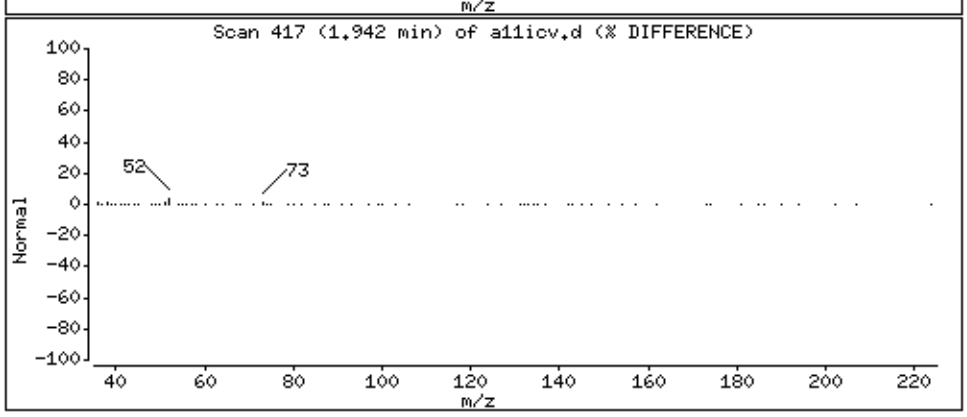












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

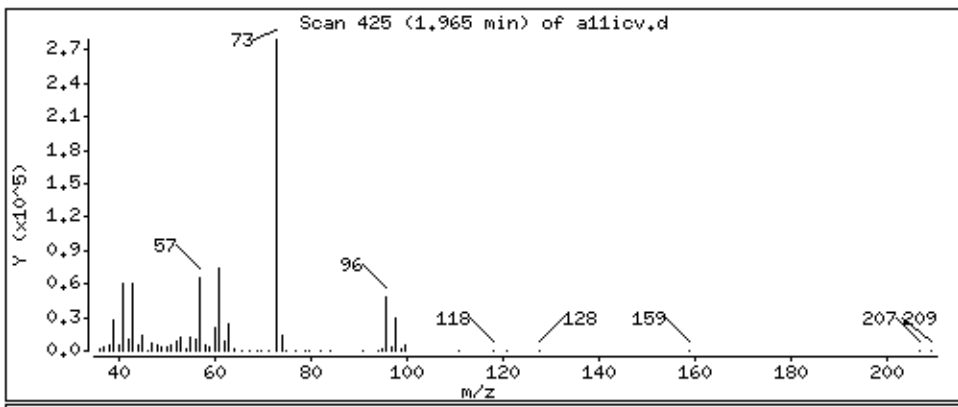
Operator: dae

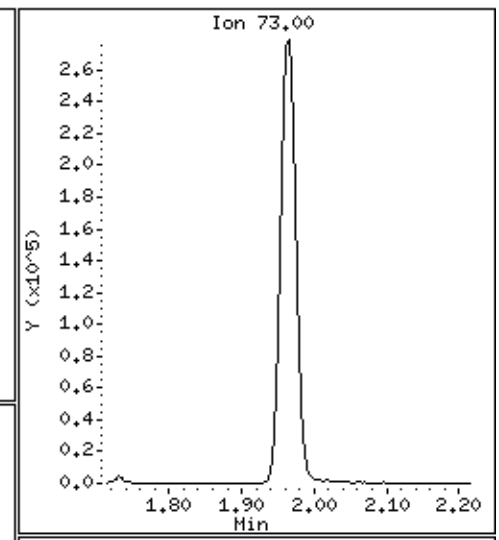
Column phase: DB-624

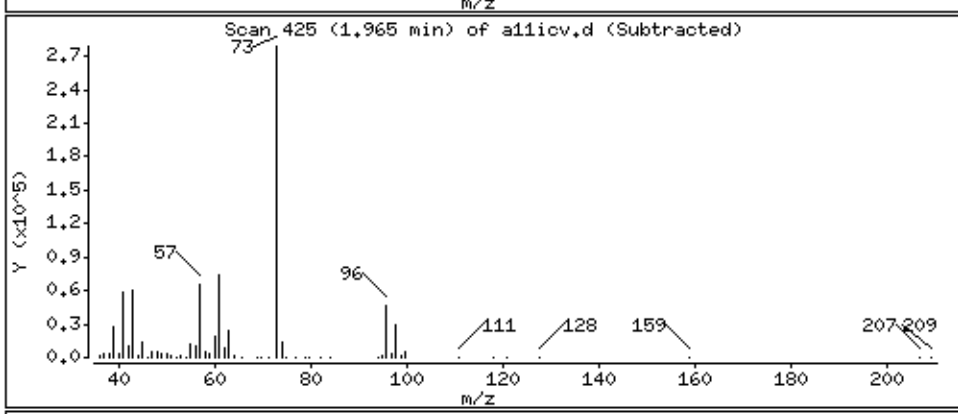
Column diameter: 0.18

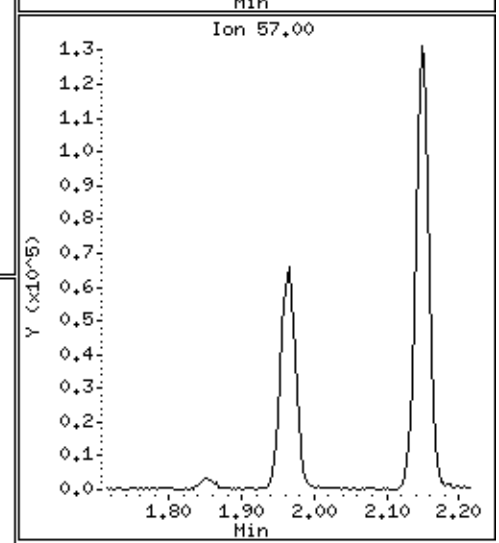
21 Methyl-tert-butyl ether

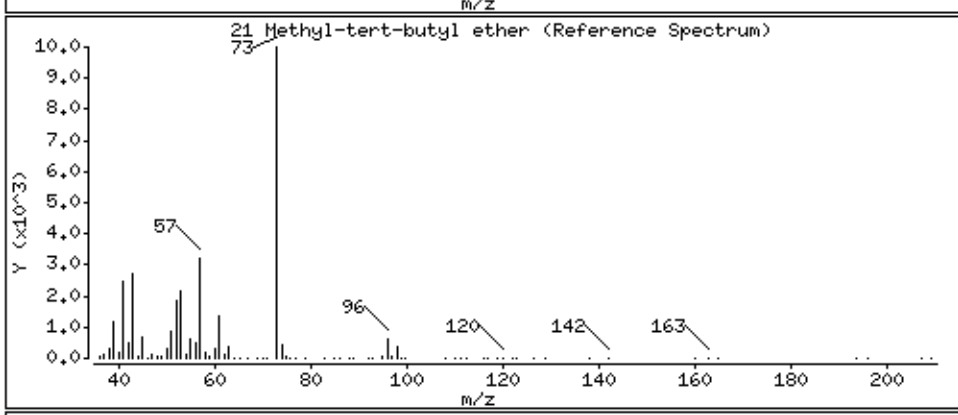
Concentration: 46.2 ppb

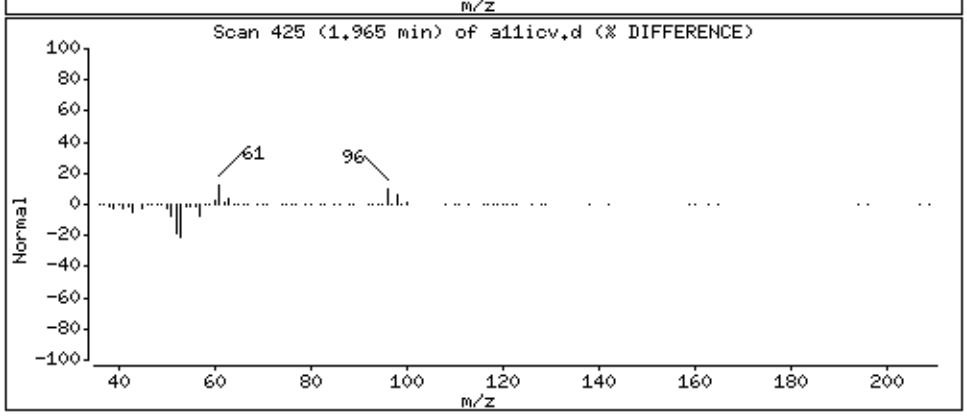












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

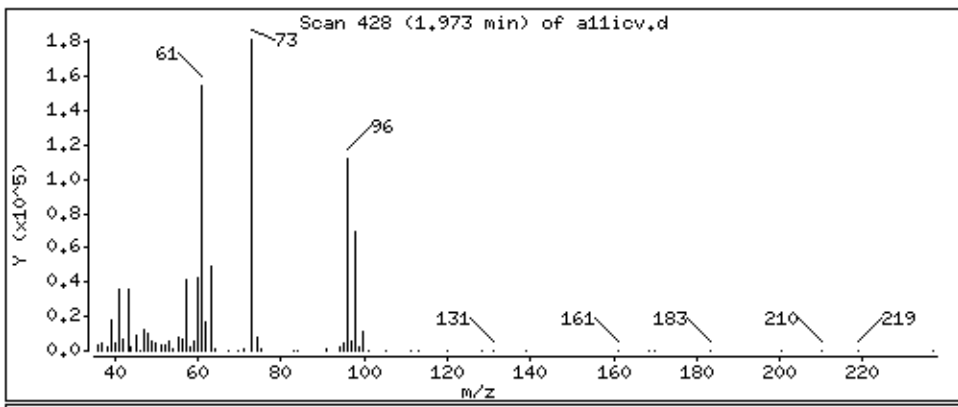
Operator: dae

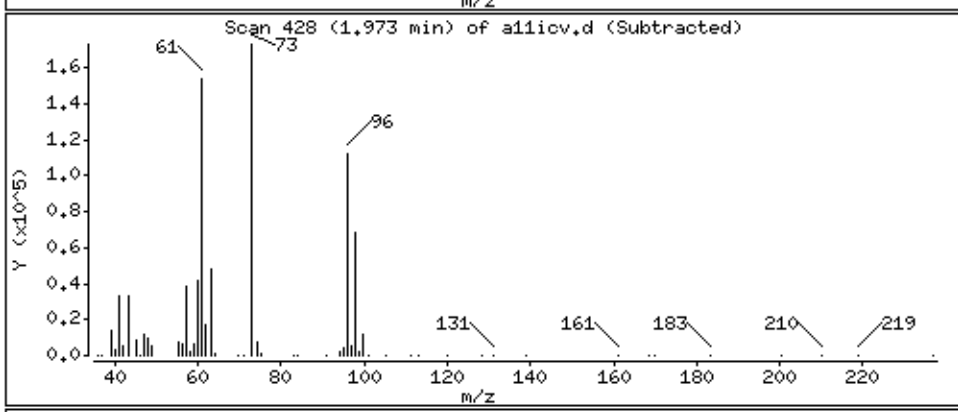
Column phase: DB-624

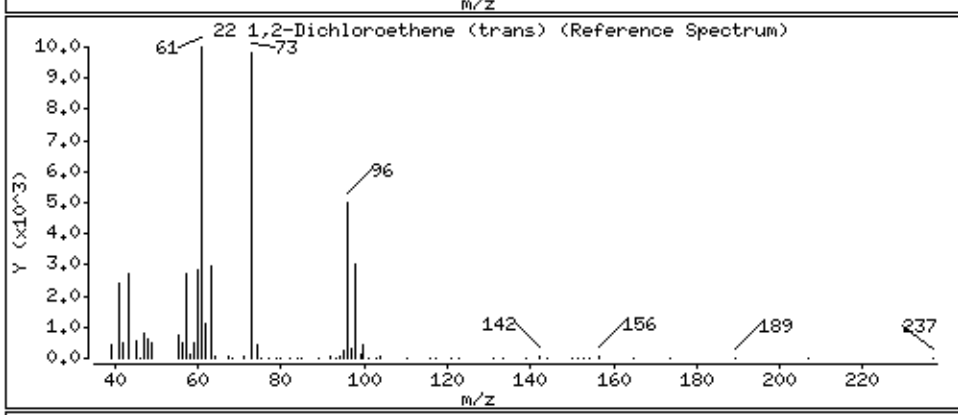
Column diameter: 0.18

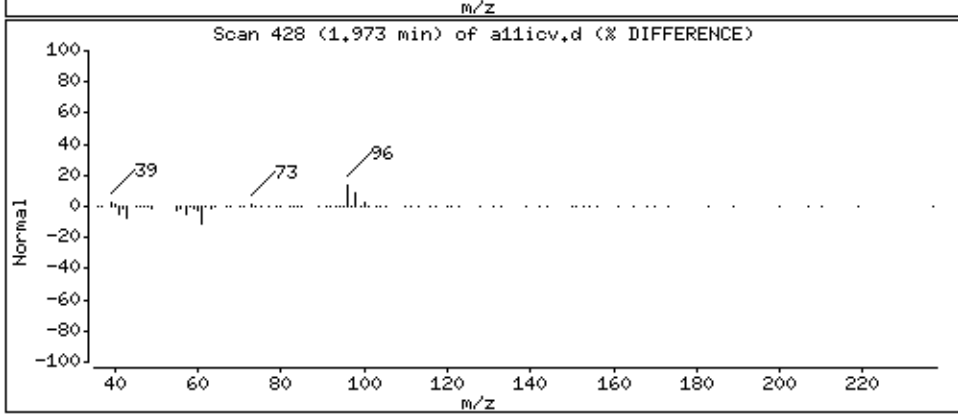
22 1,2-Dichloroethene (trans)

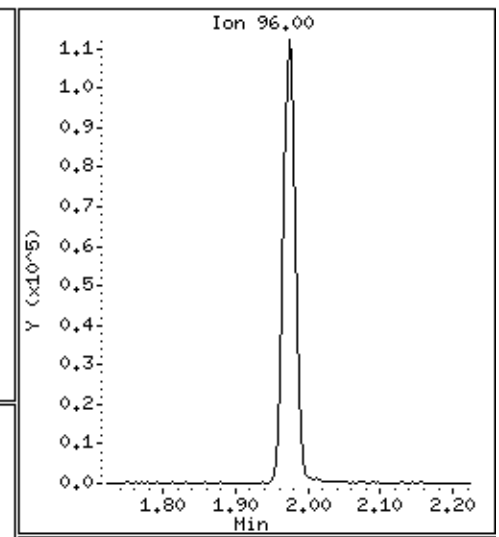
Concentration: 48.2 ppb

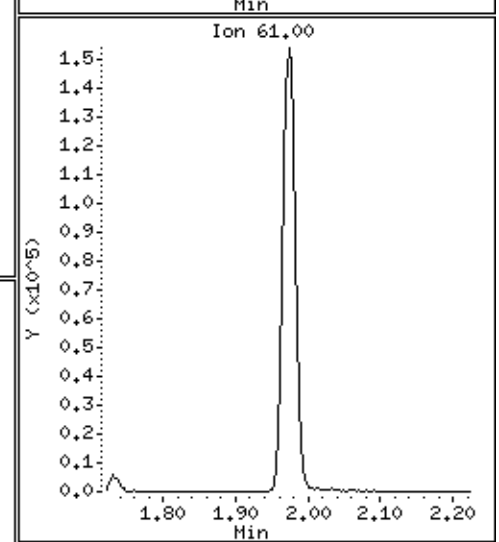


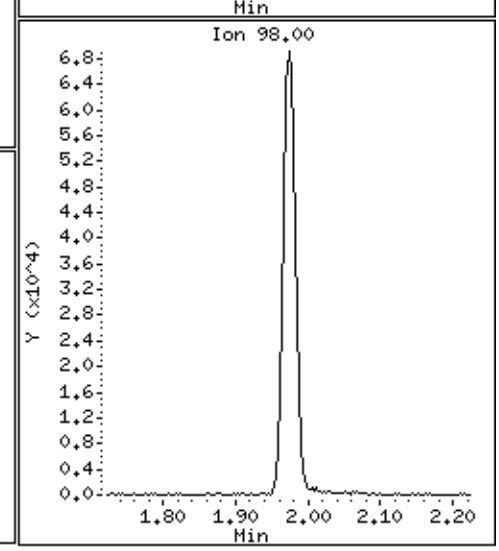












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

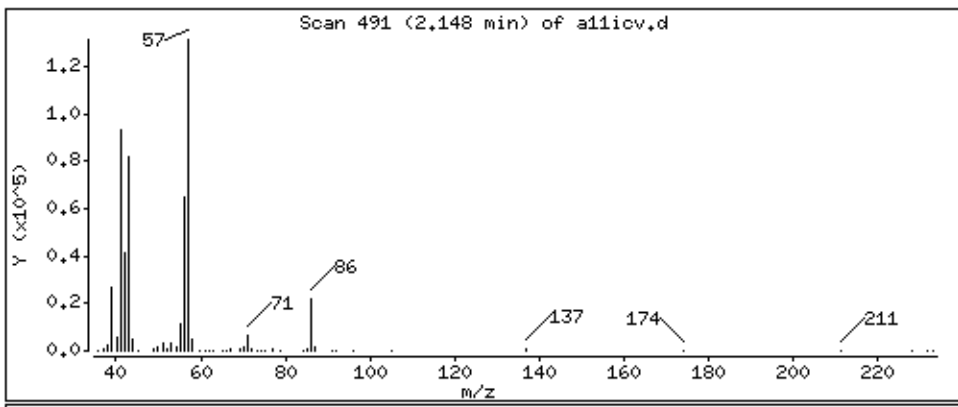
Operator: dae

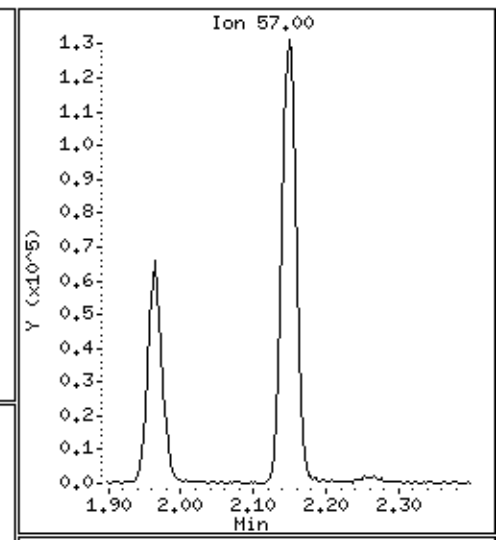
Column phase: DB-624

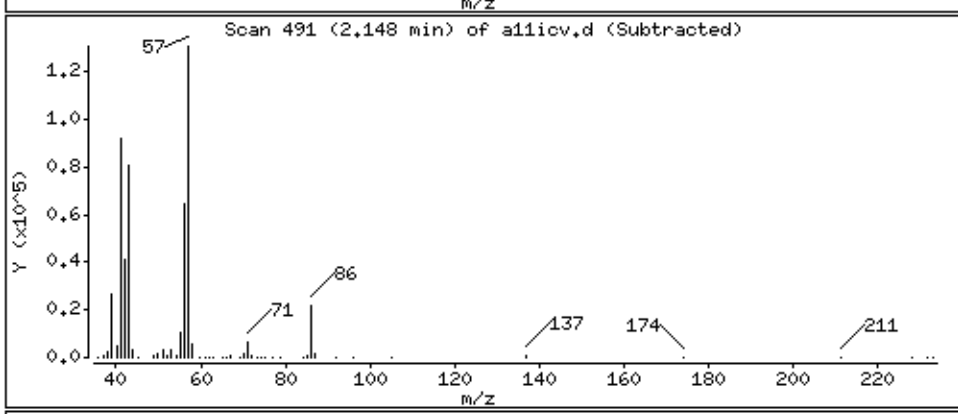
Column diameter: 0.18

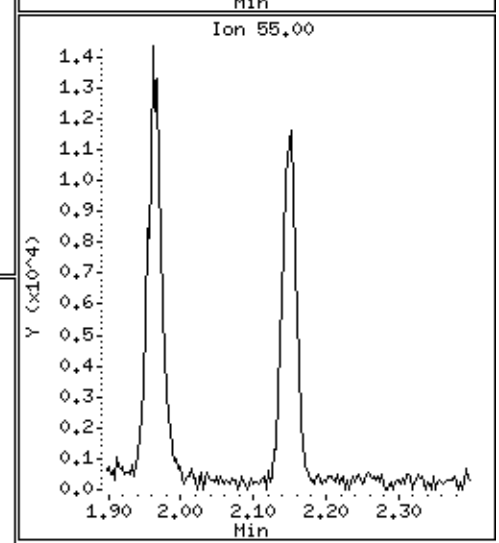
23 n-Hexane

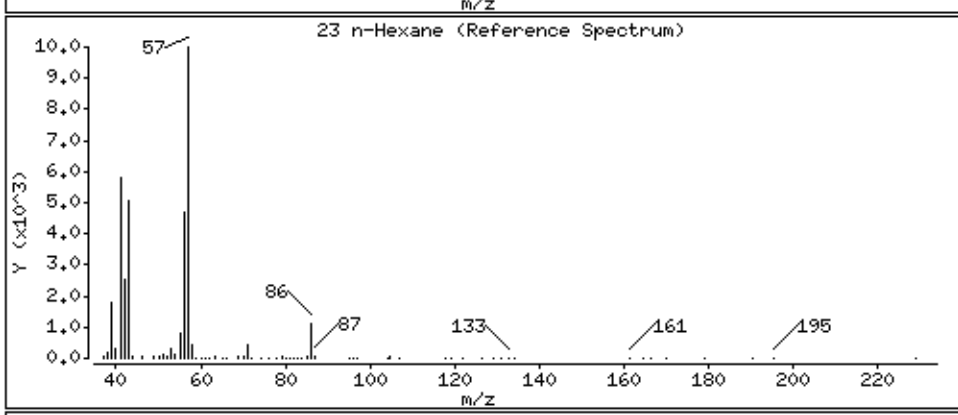
Concentration: 48.0 ppb

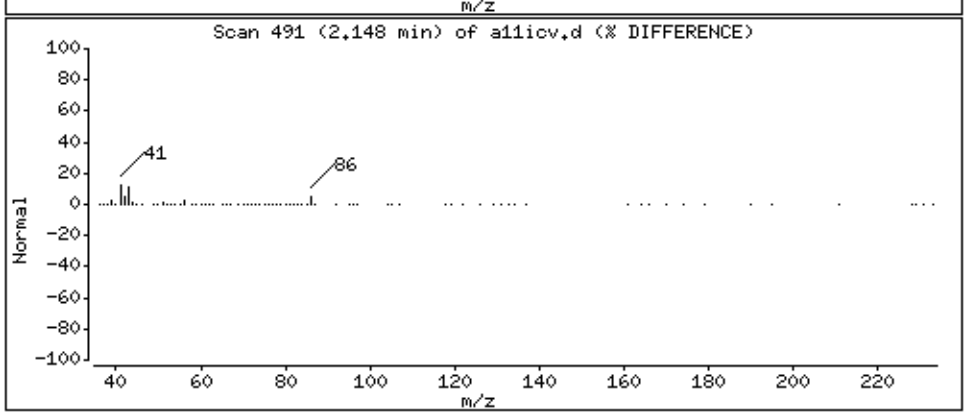












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

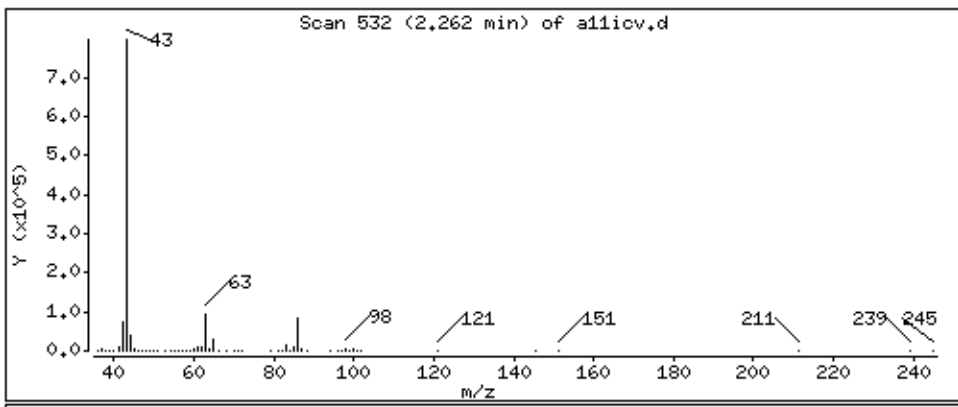
Operator: dae

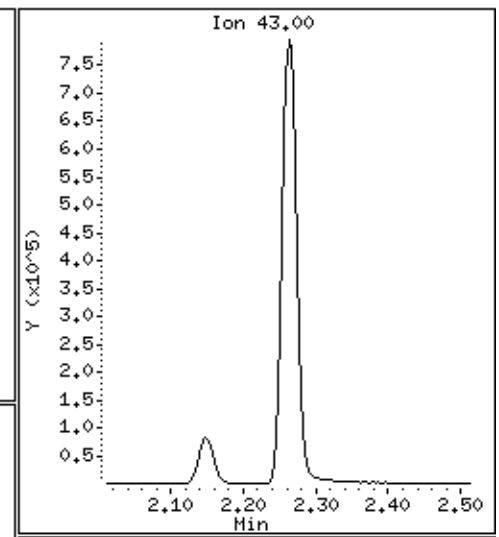
Column phase: DB-624

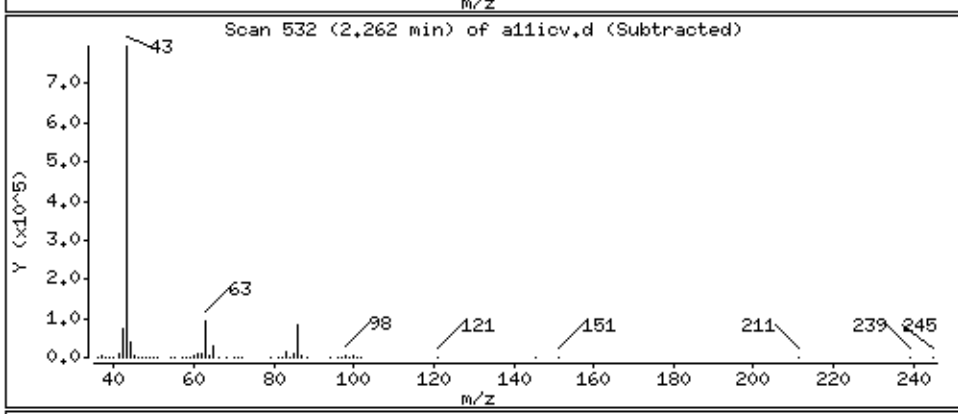
Column diameter: 0.18

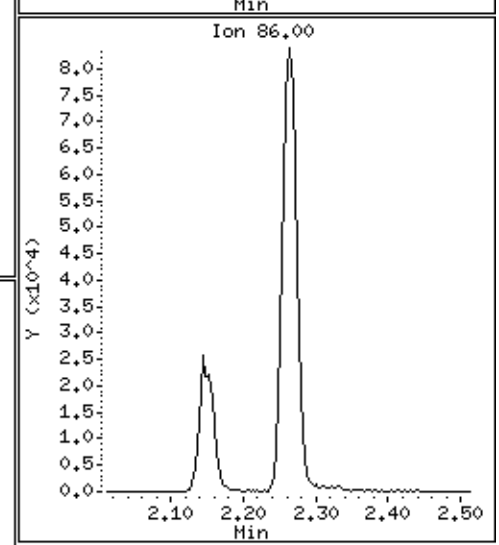
24 Vinyl Acetate

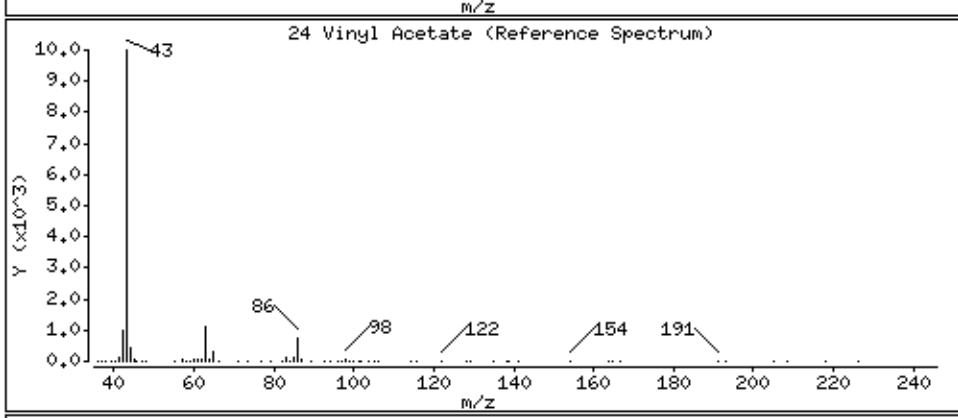
Concentration: 189 ppb

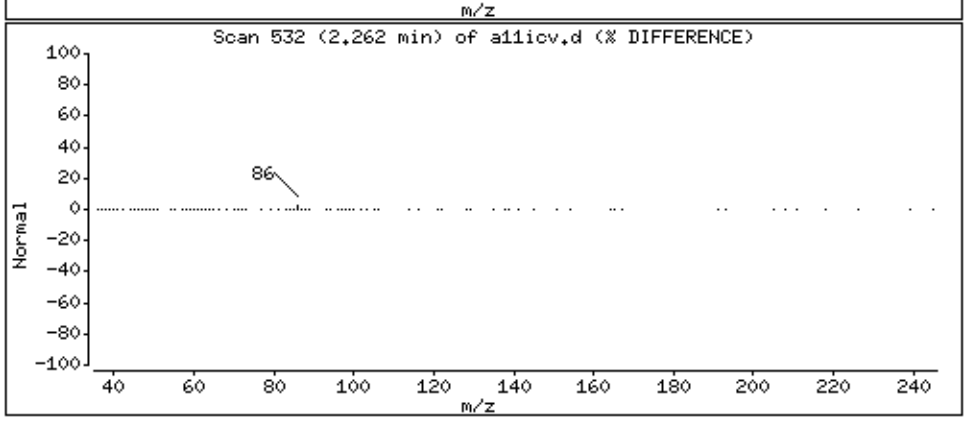












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

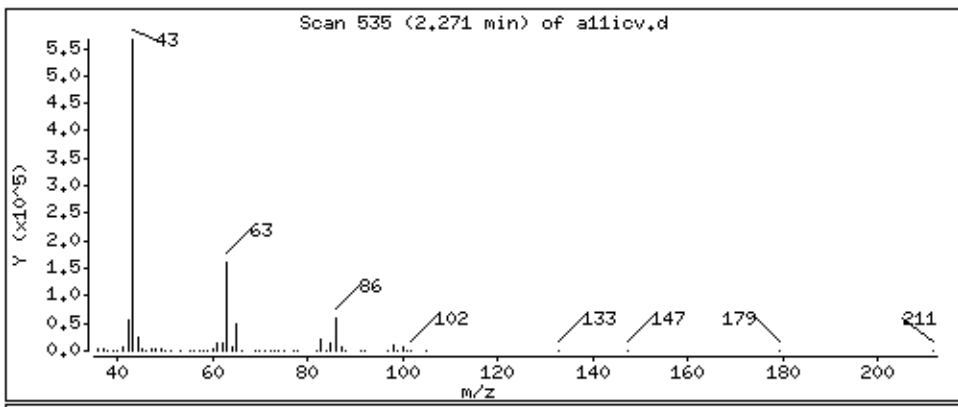
Operator: dae

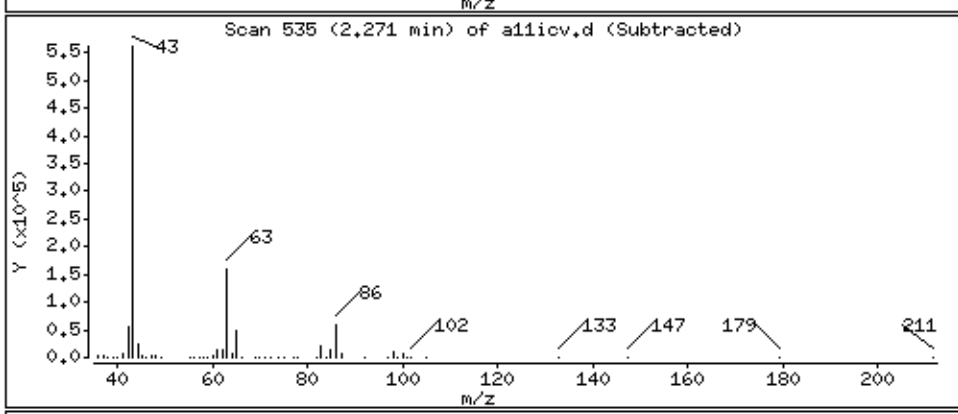
Column phase: DB-624

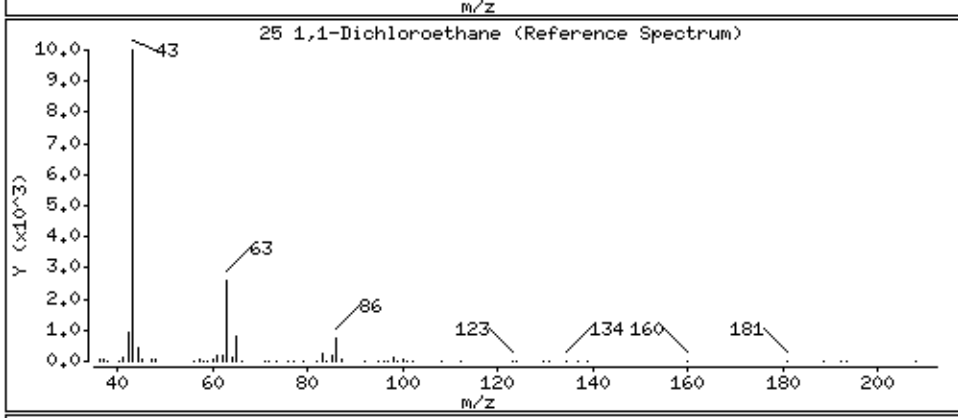
Column diameter: 0.18

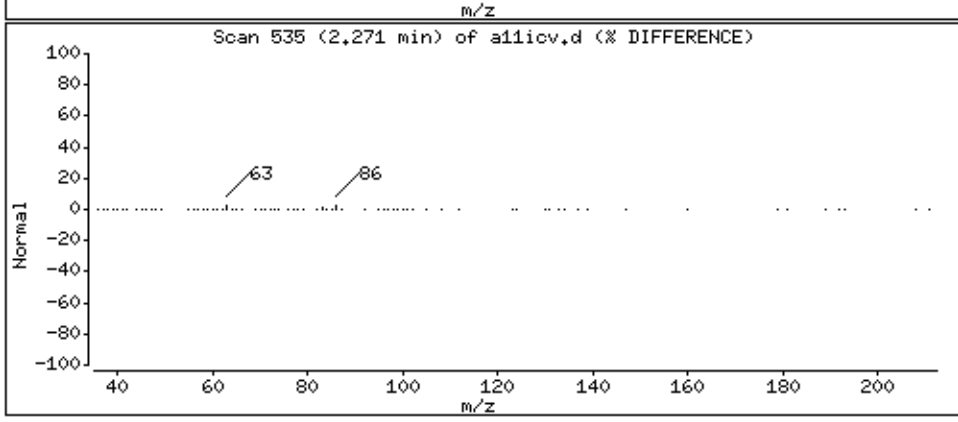
25 1,1-Dichloroethane

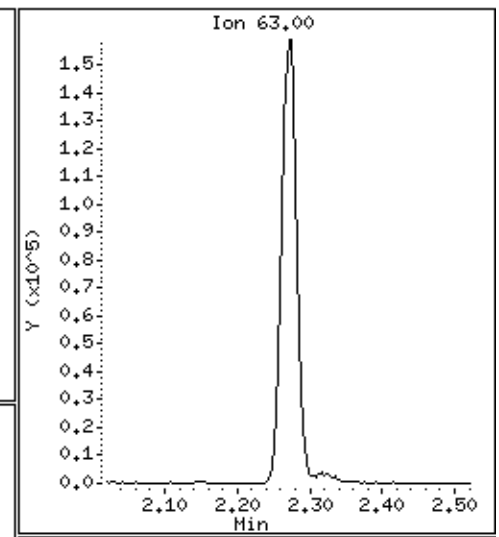
Concentration: 47.3 ppb

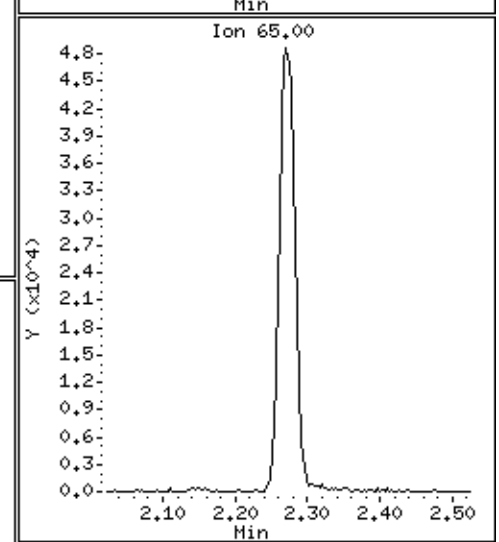


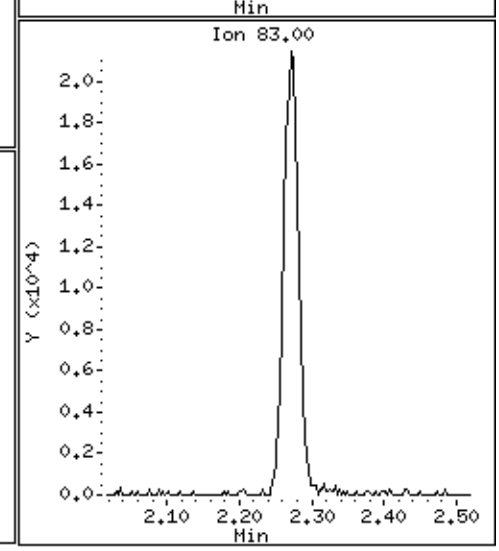












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

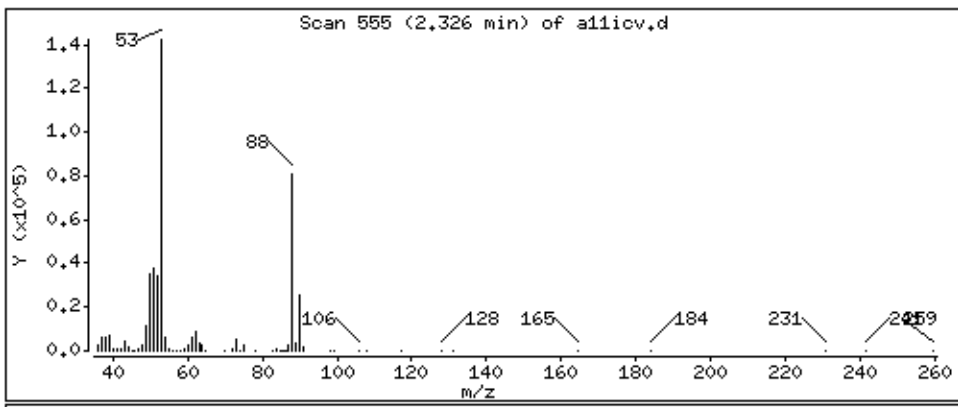
Operator: dae

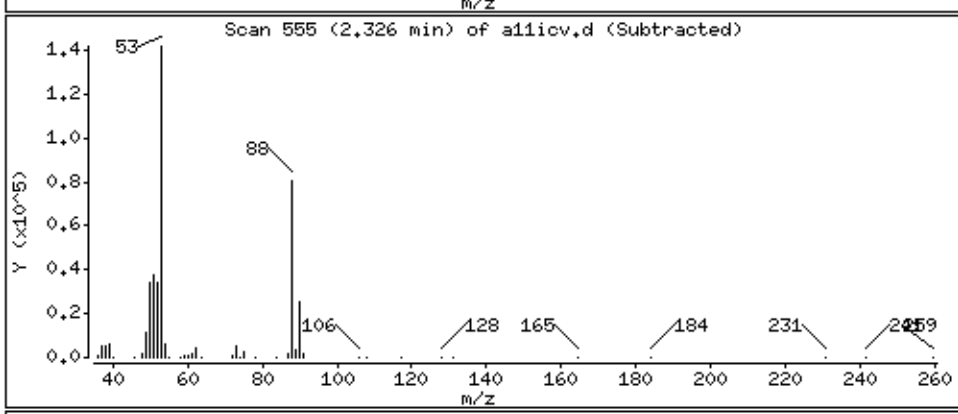
Column phase: DB-624

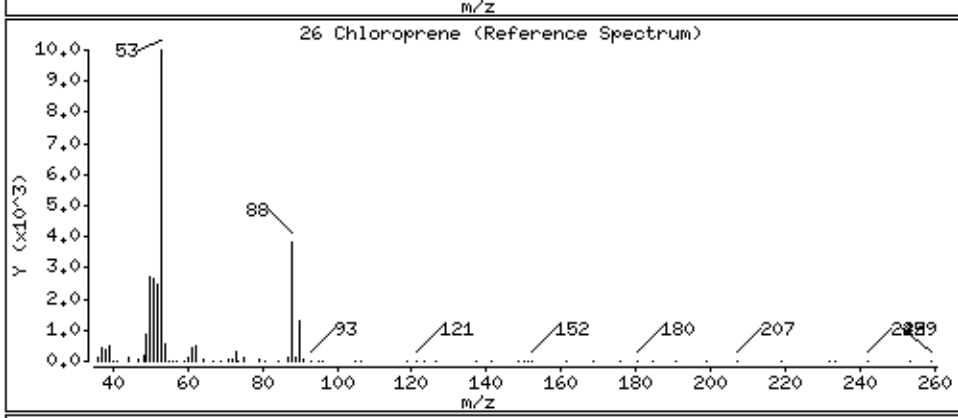
Column diameter: 0.18

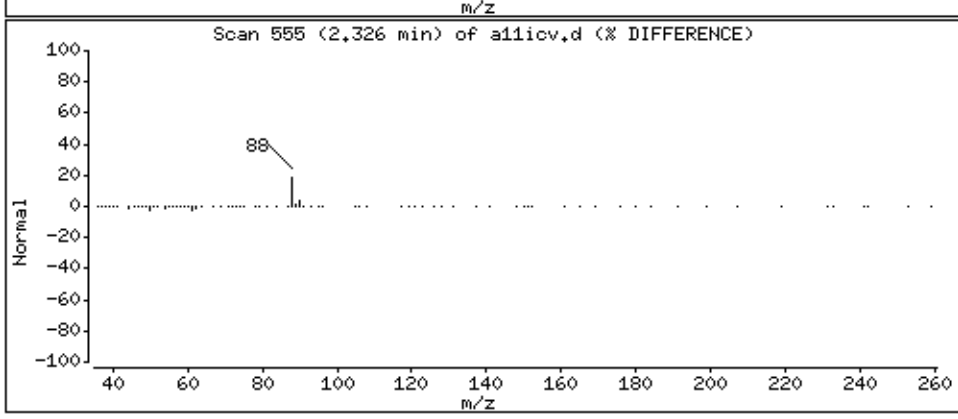
26 Chloroprene

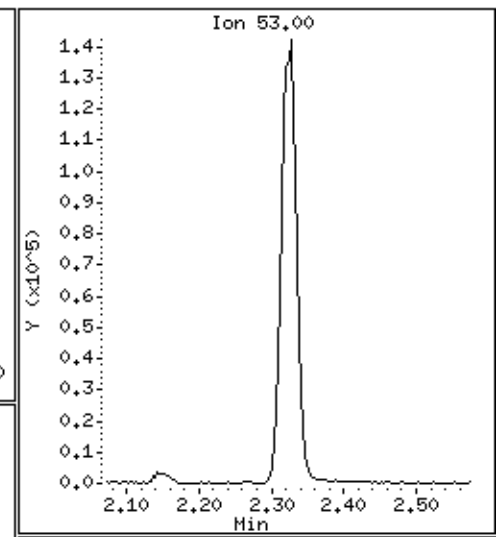
Concentration: 47.8 ppb

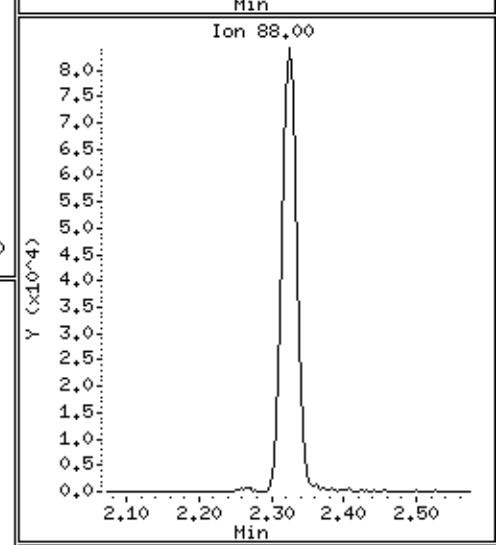


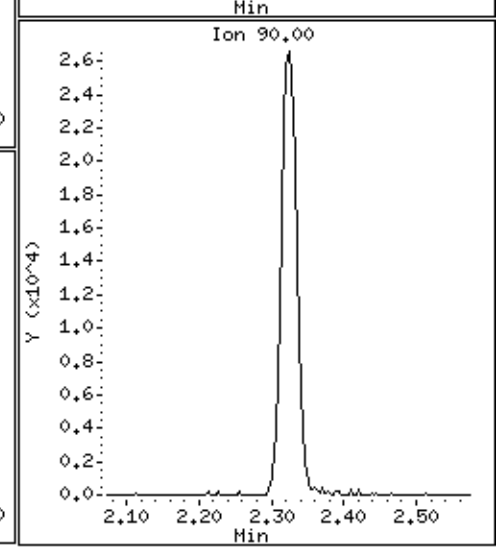












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

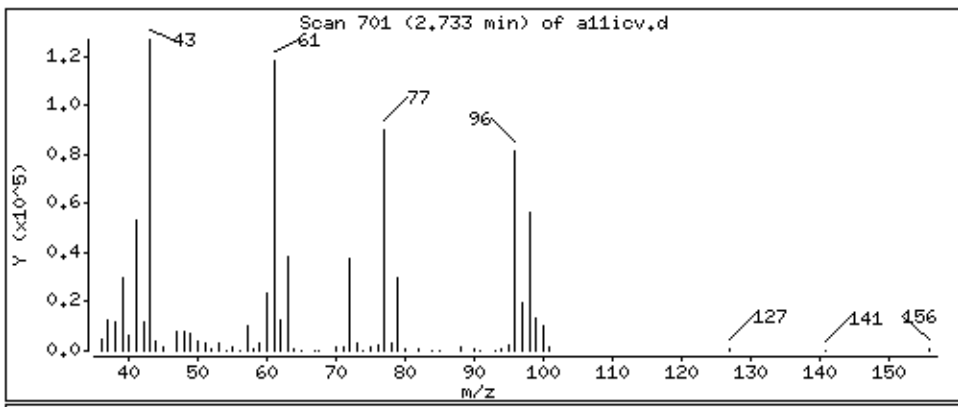
Operator: dae

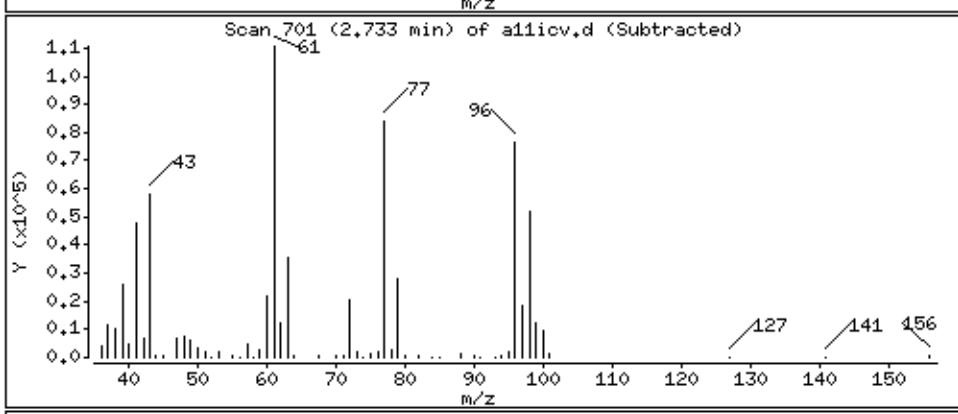
Column phase: DB-624

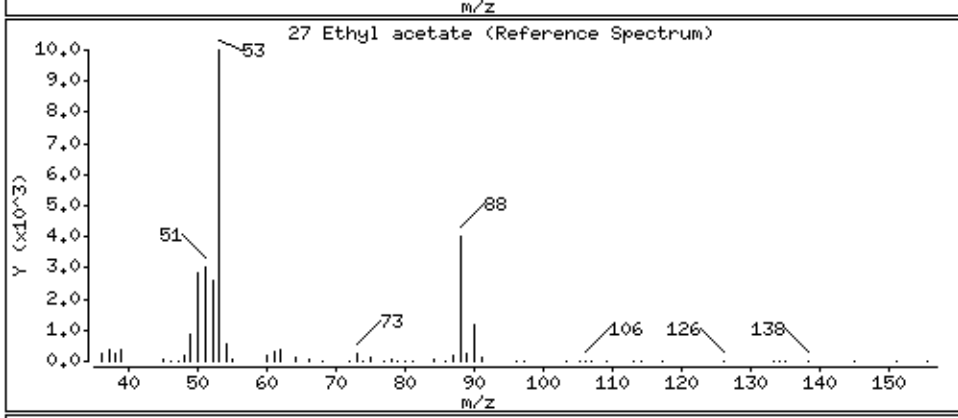
Column diameter: 0.18

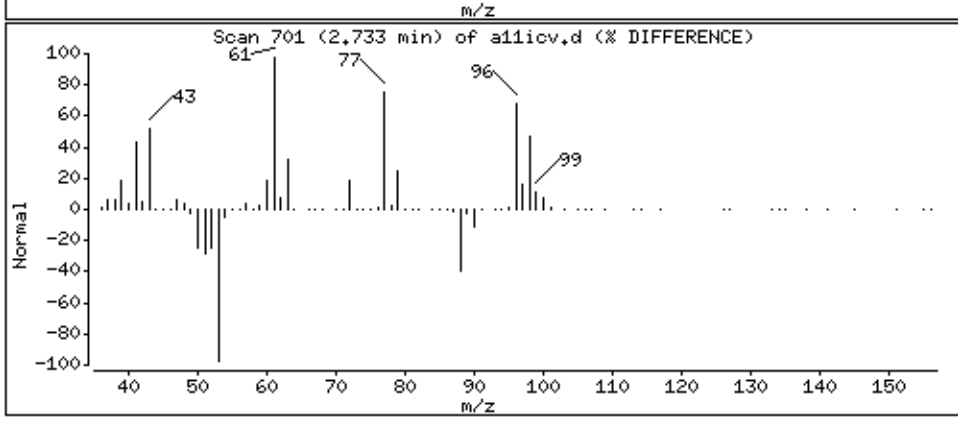
27 Ethyl acetate

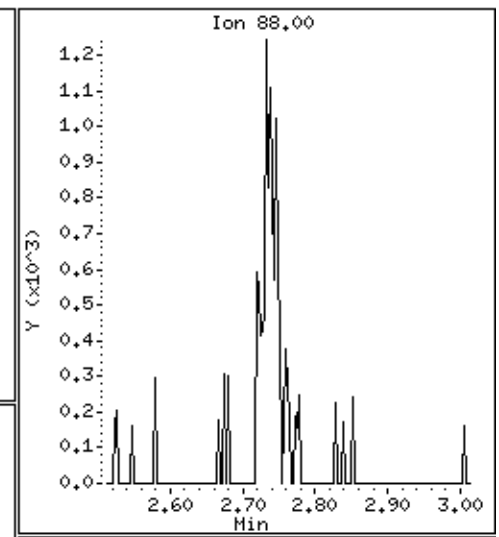
Concentration: 10.9 ppb

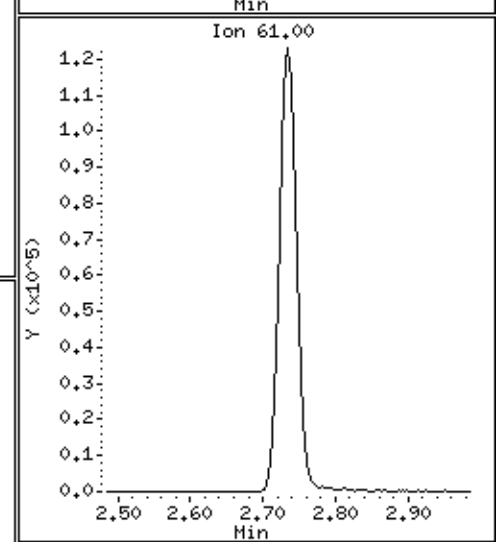


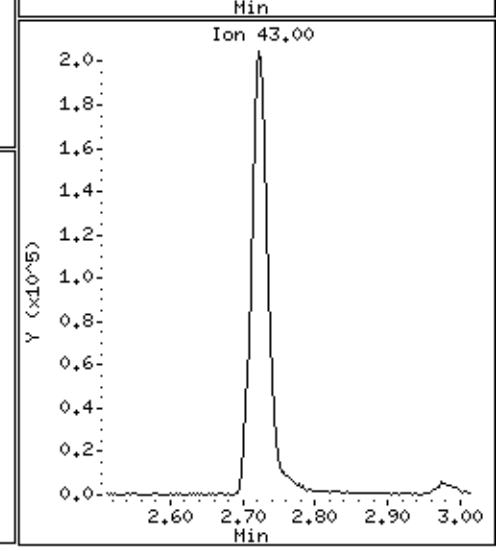












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

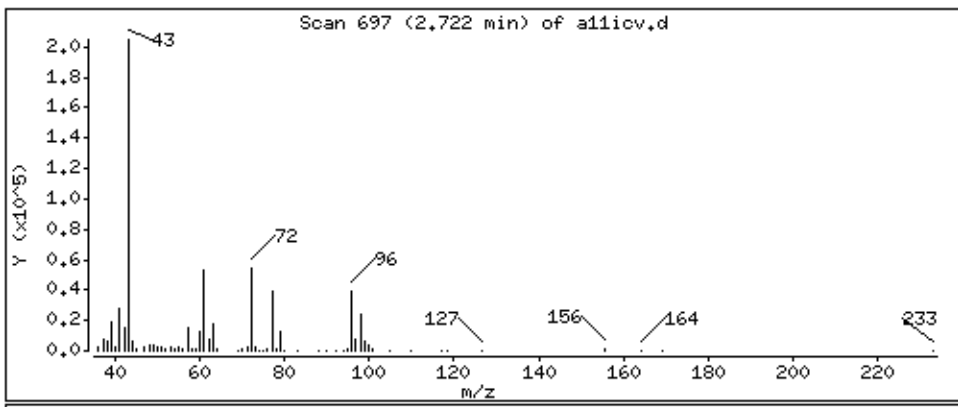
Operator: dae

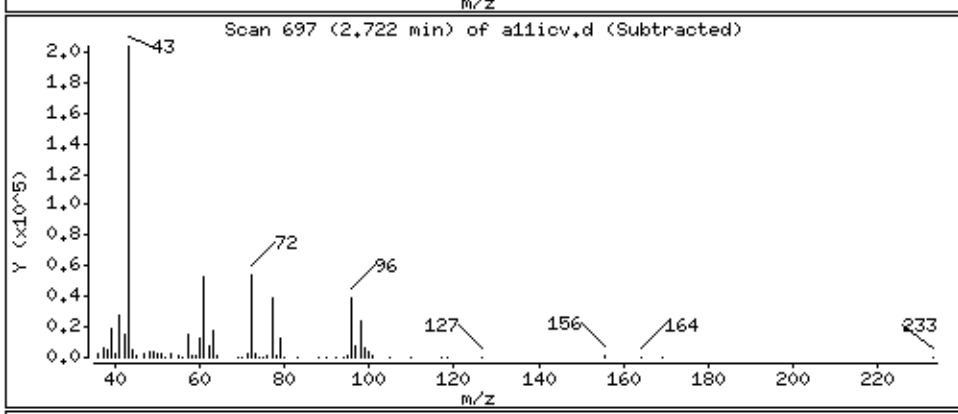
Column phase: DB-624

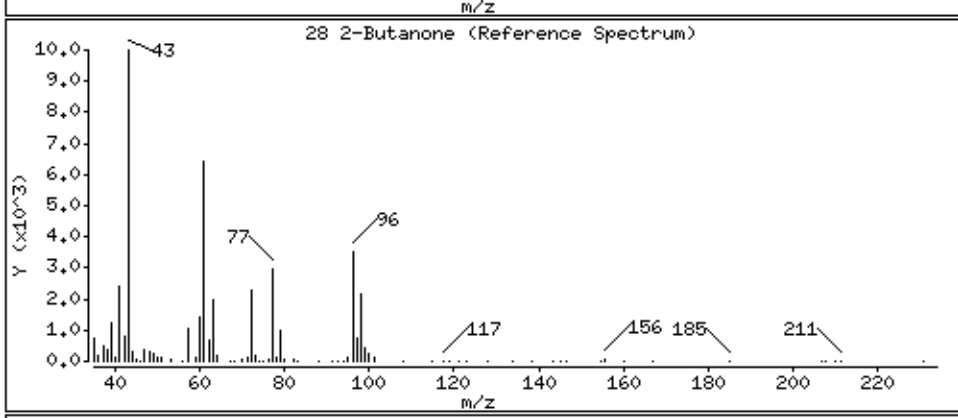
Column diameter: 0.18

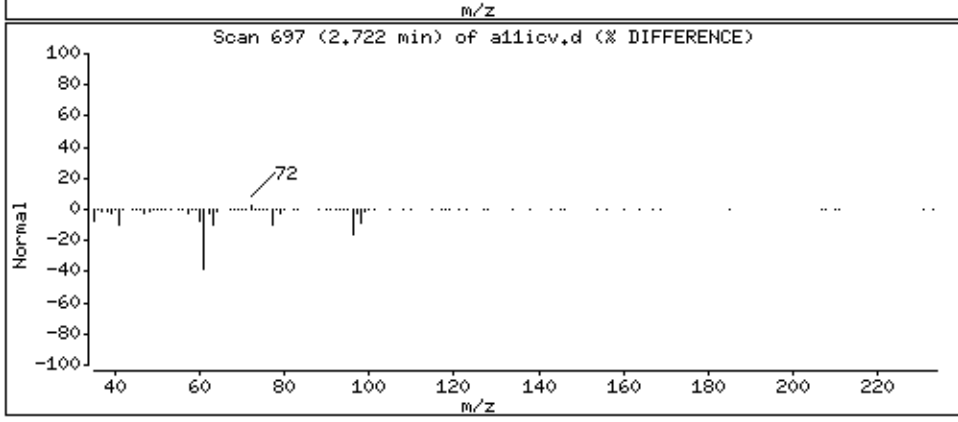
28 2-Butanone

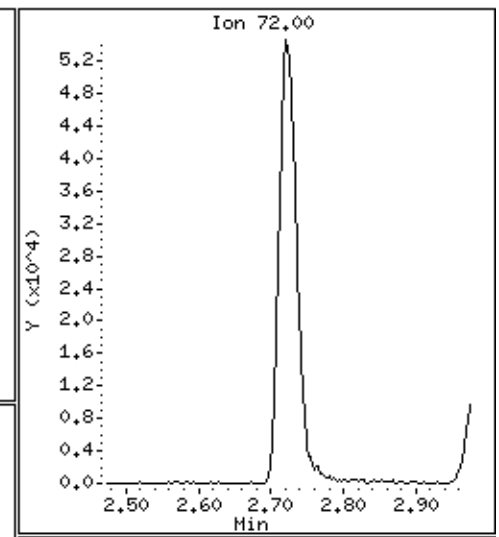
Concentration: 230 ppb

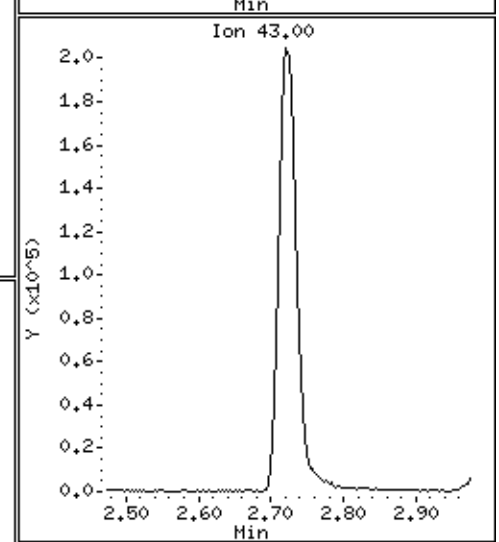


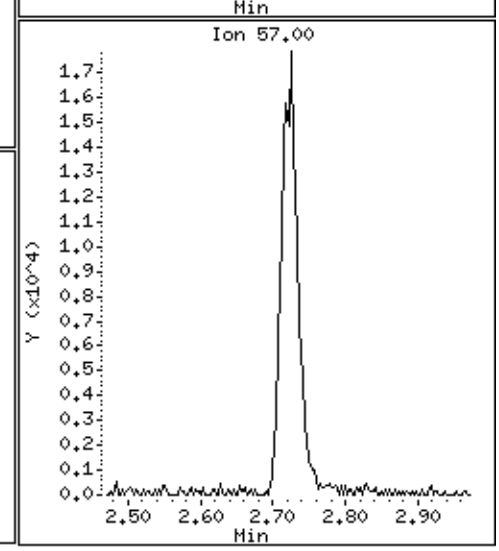












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

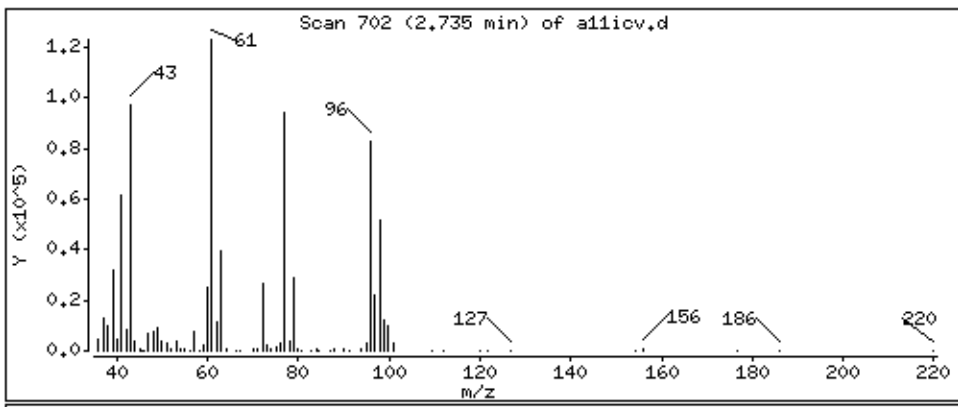
Operator: dae

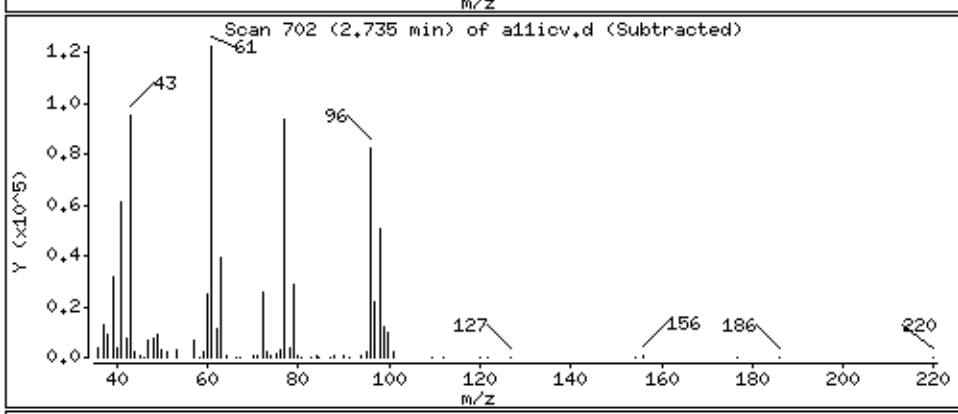
Column phase: DB-624

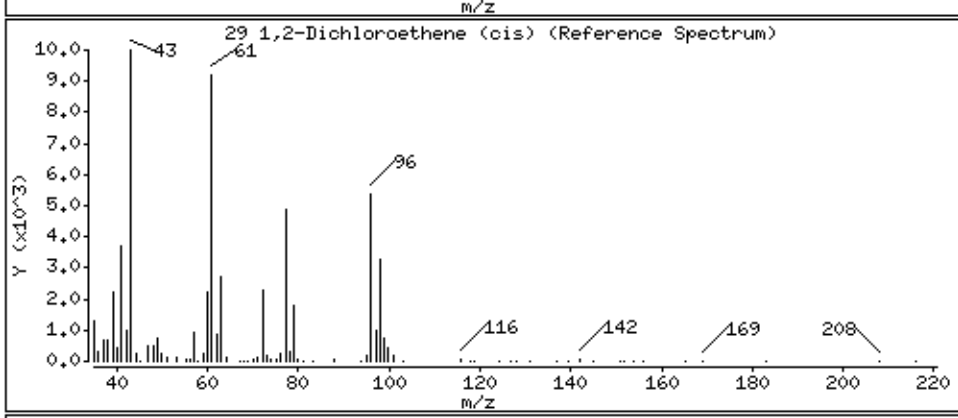
Column diameter: 0.18

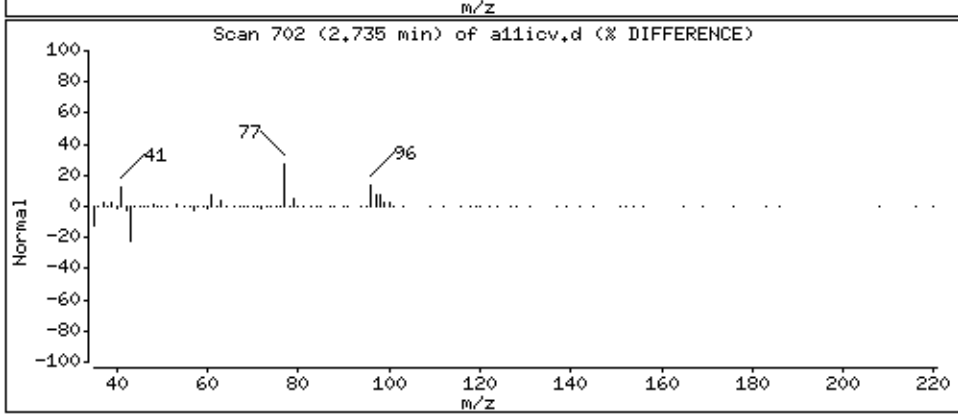
29 1,2-Dichloroethene (cis)

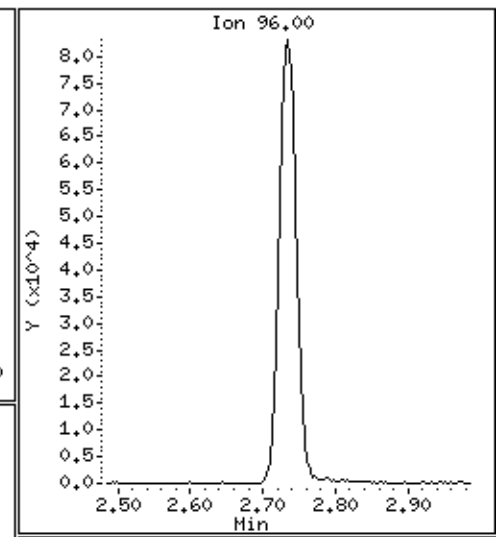
Concentration: 47.0 ppb

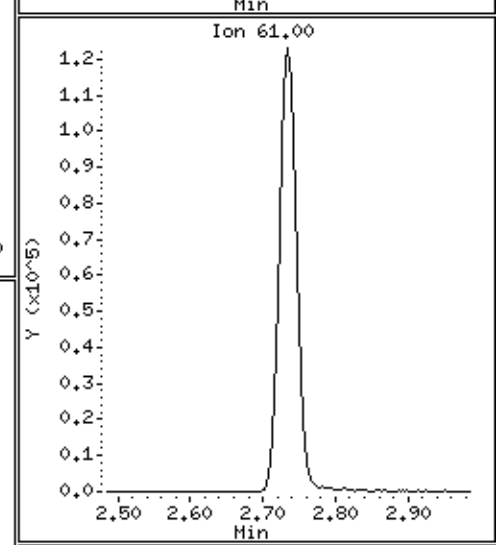


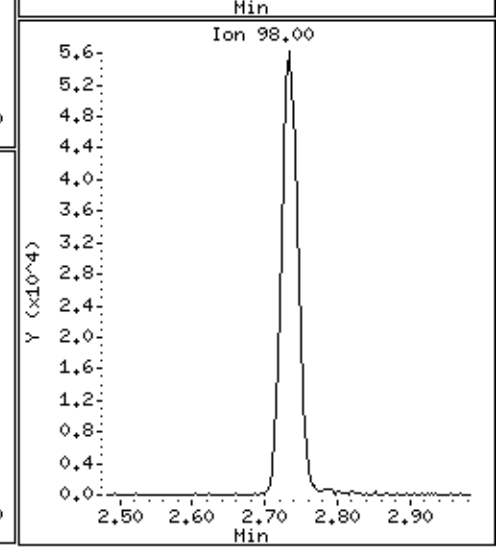












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

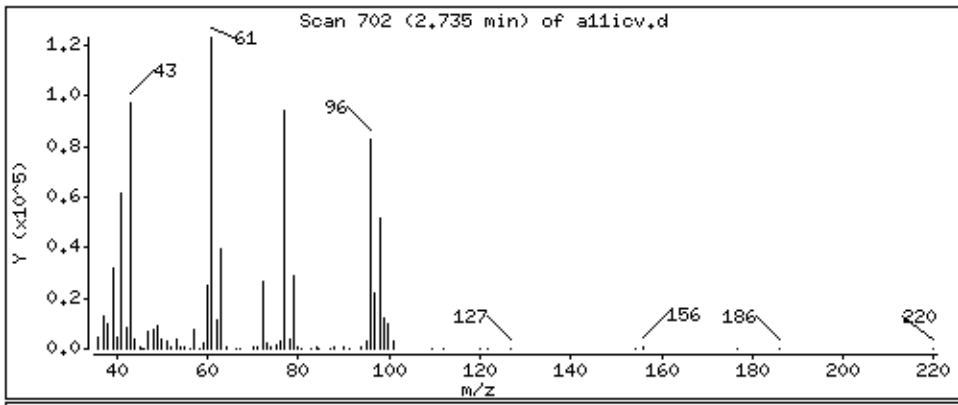
Operator: dae

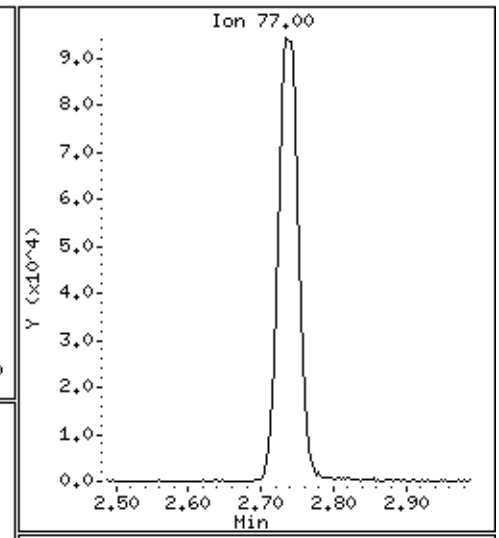
Column phase: DB-624

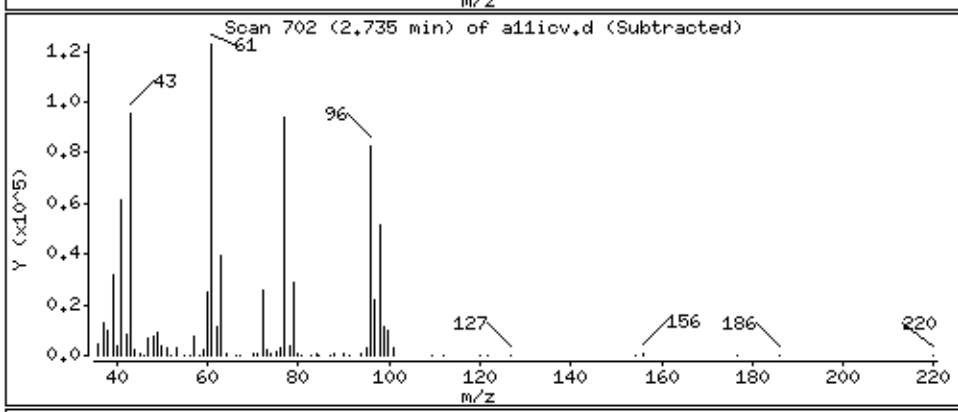
Column diameter: 0.18

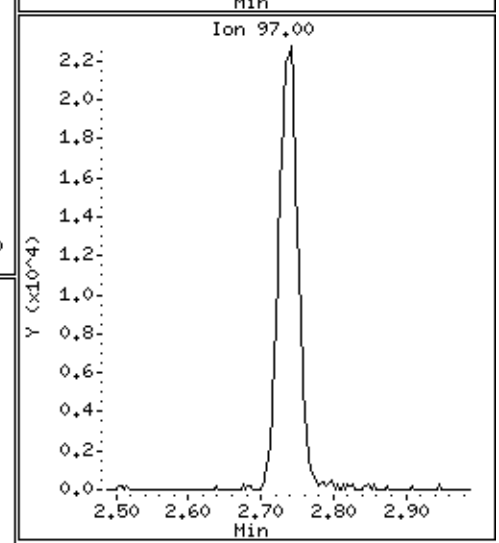
30 2,2-Dichloropropane

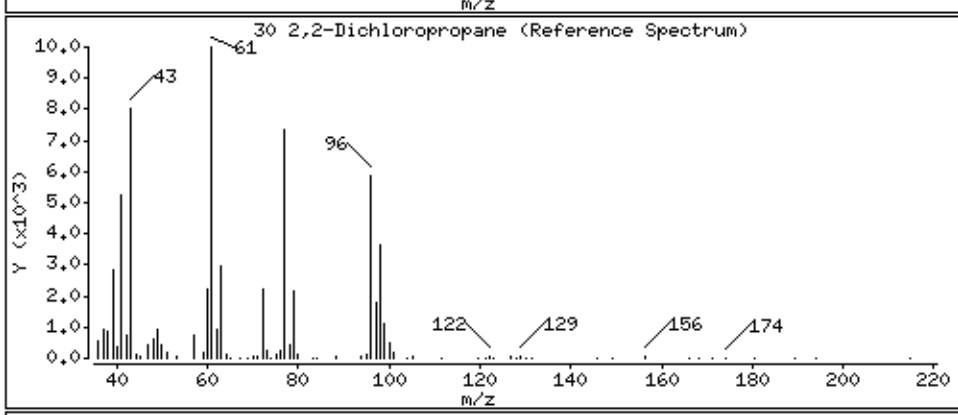
Concentration: 45.2 ppb

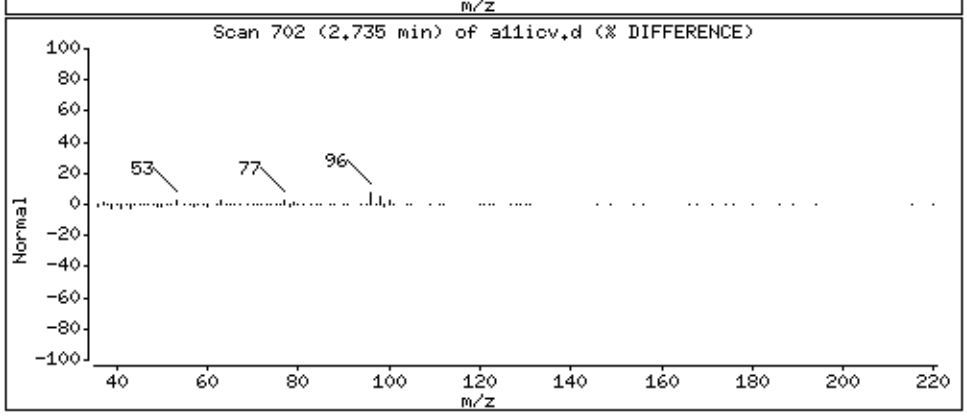












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

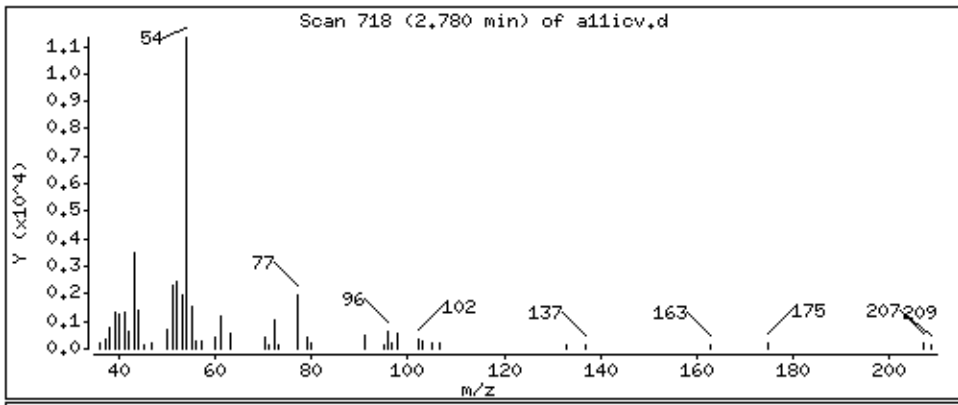
Operator: dae

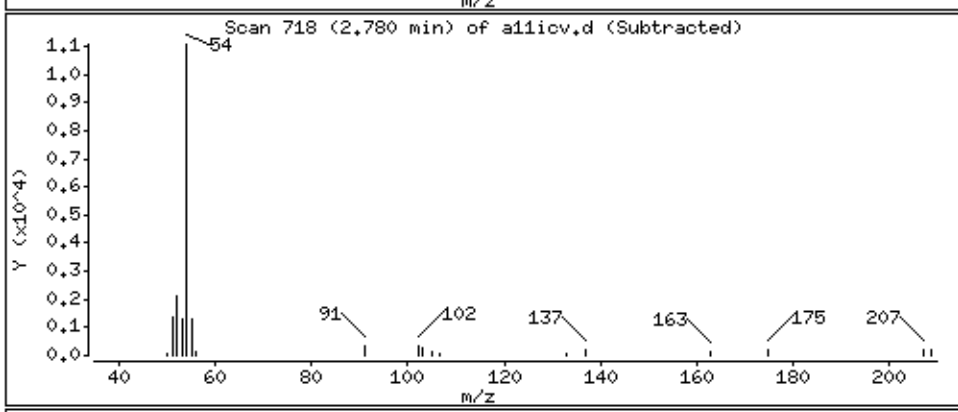
Column phase: DB-624

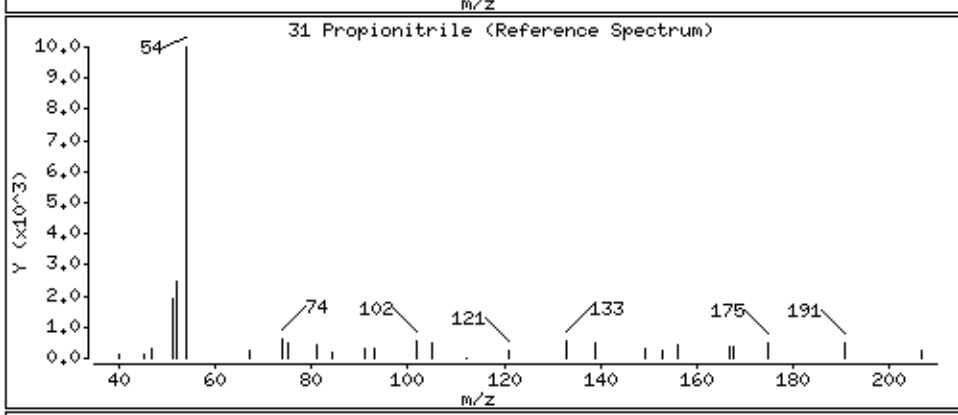
Column diameter: 0.18

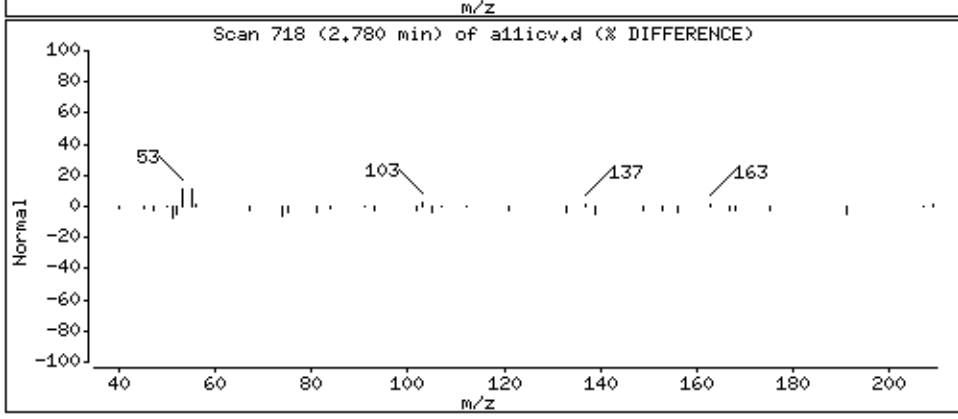
31 Propionitrile

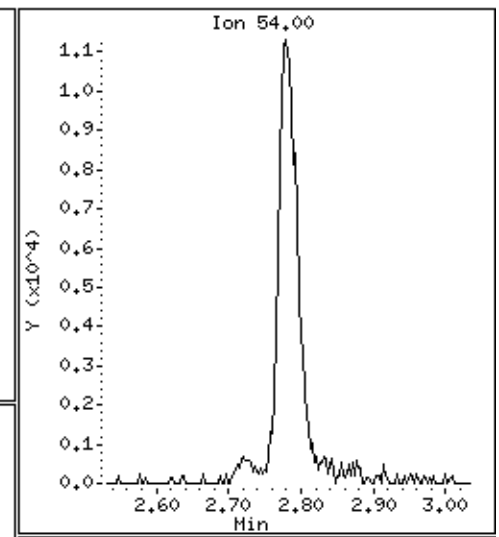
Concentration: 43.1 ppb

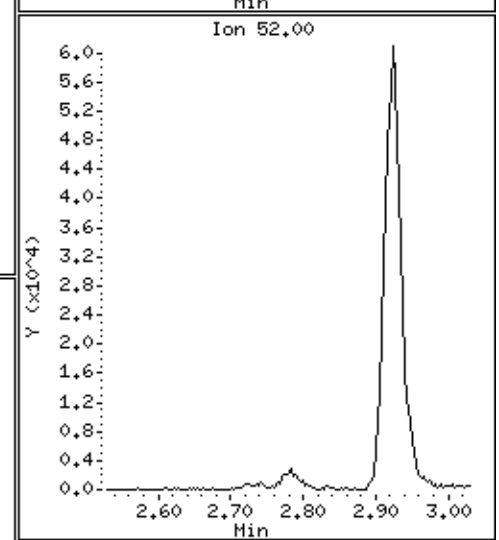


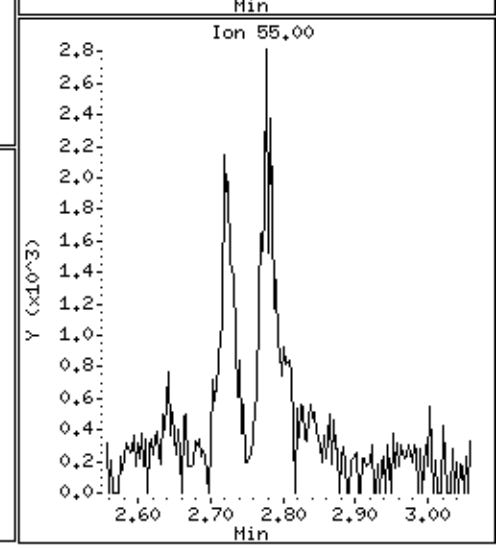












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

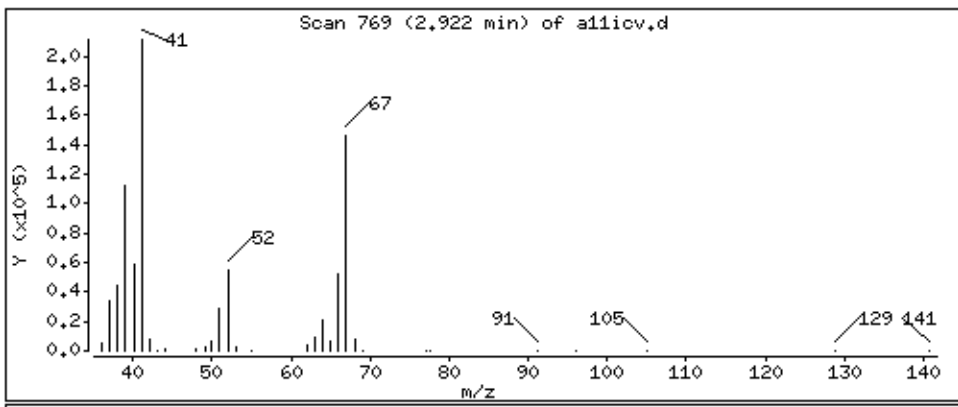
Operator: dae

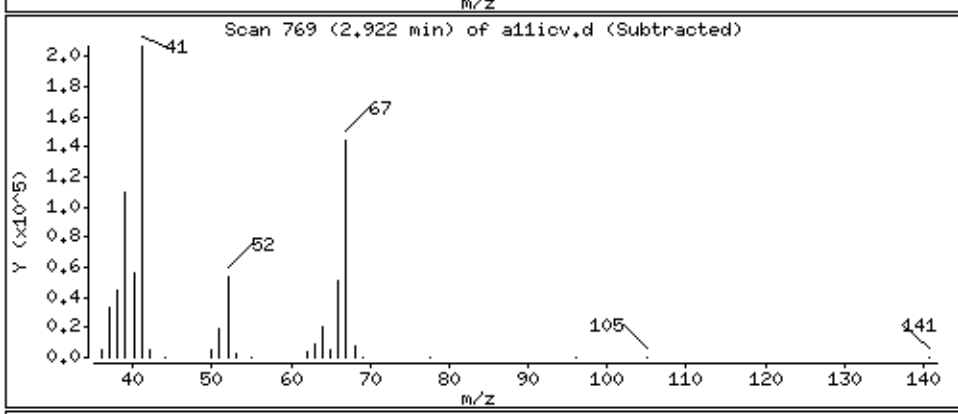
Column phase: DB-624

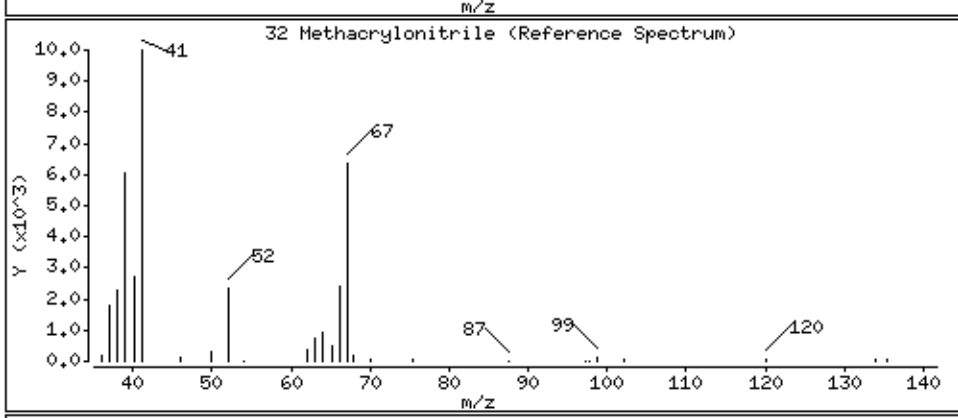
Column diameter: 0.18

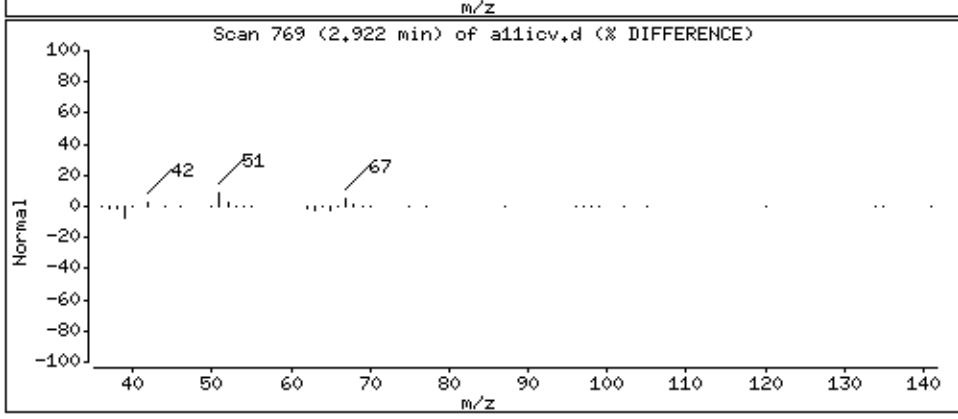
32 Methacrylonitrile

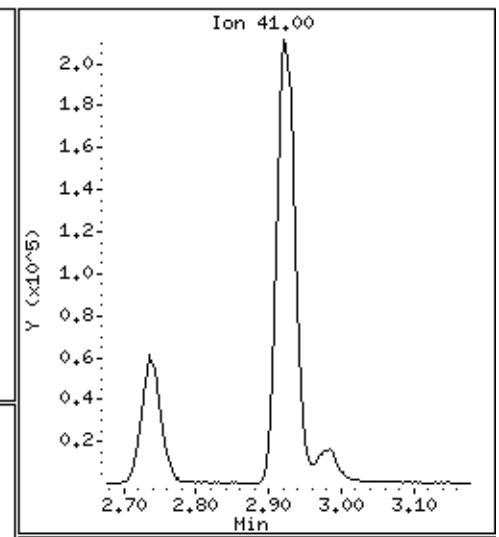
Concentration: 201 ppb

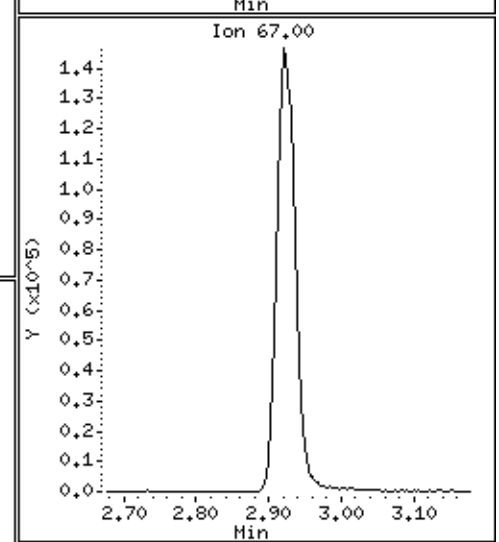


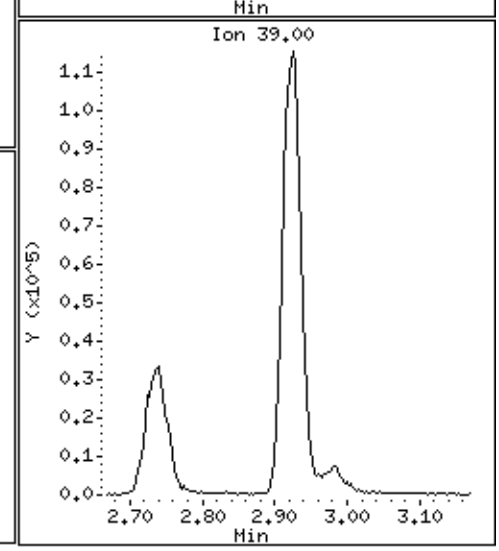












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

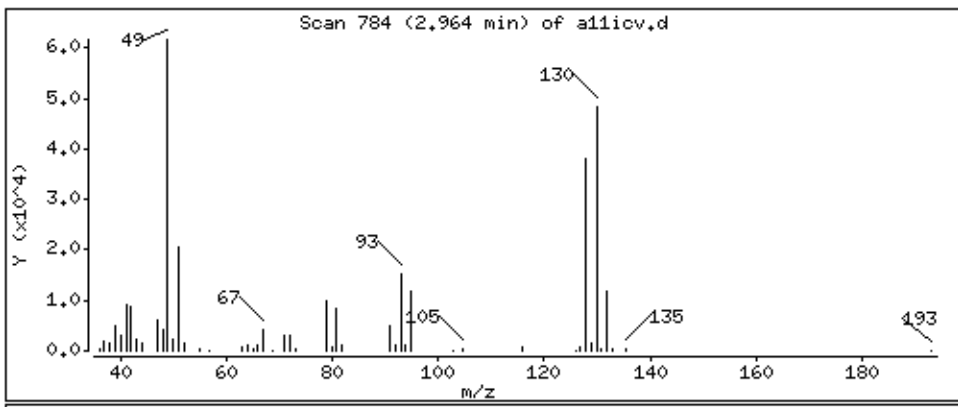
Operator: dae

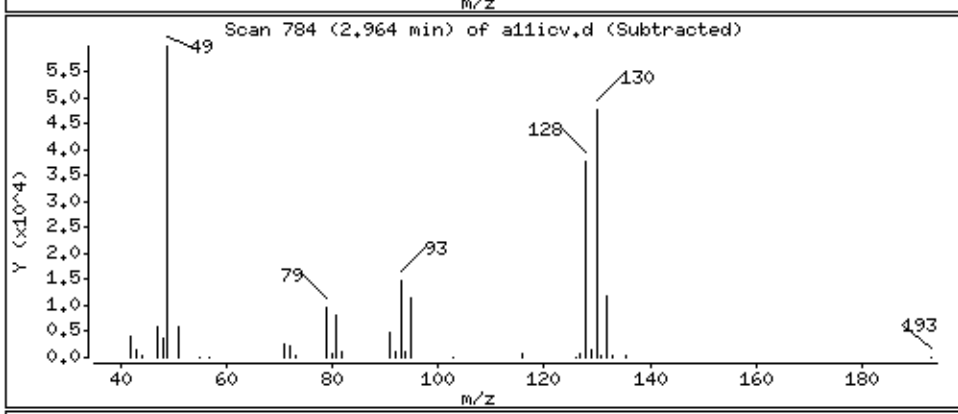
Column phase: DB-624

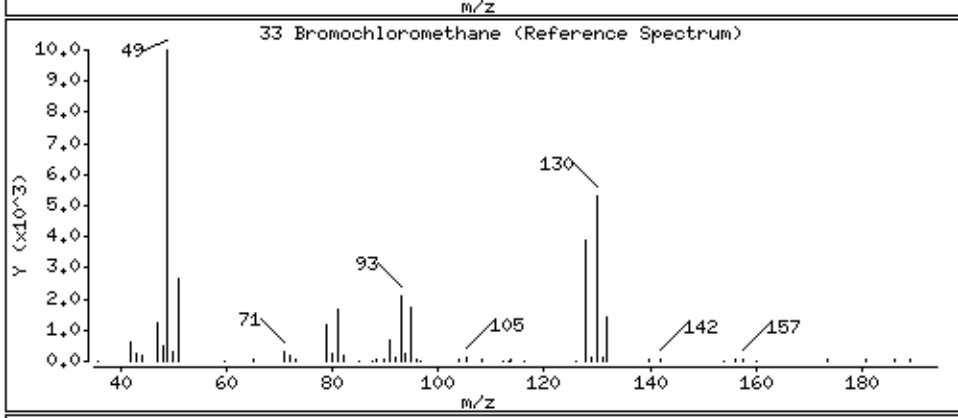
Column diameter: 0.18

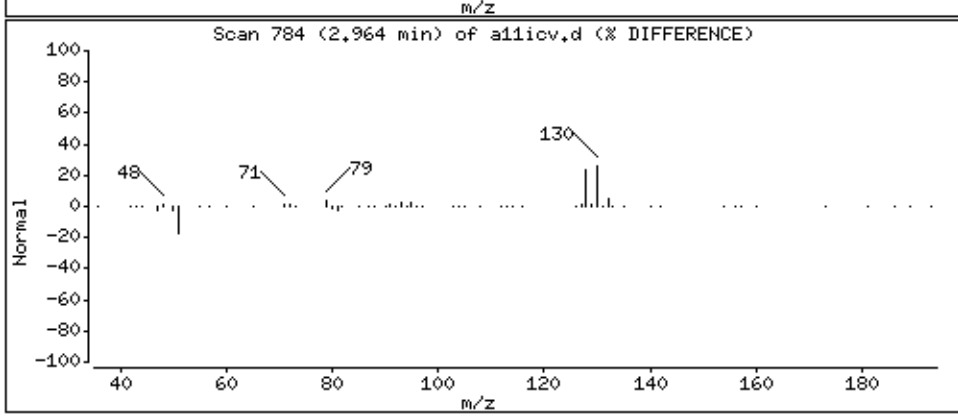
33 Bromochloromethane

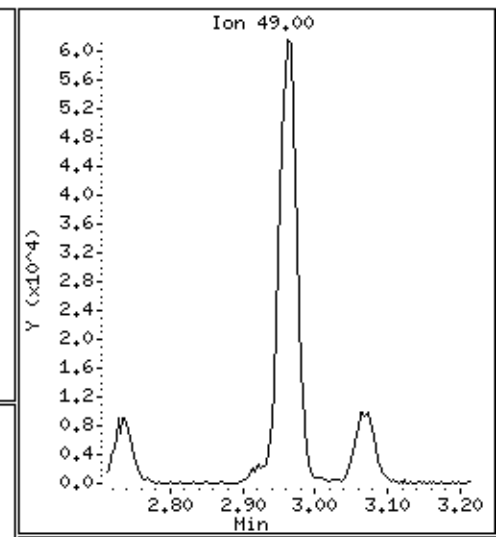
Concentration: 46.6 ppb

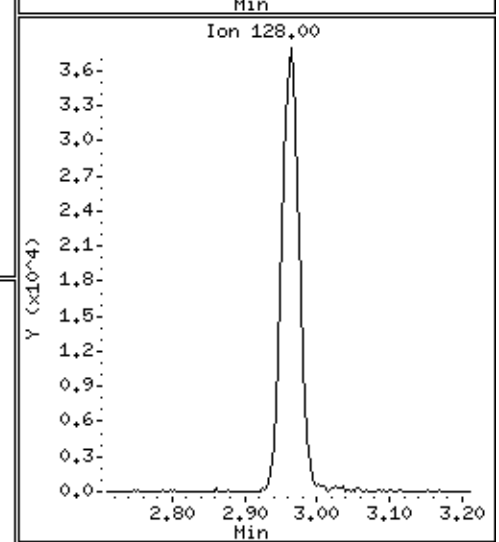


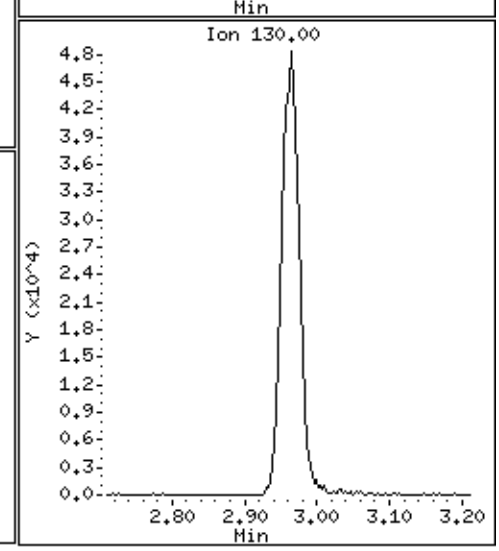












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

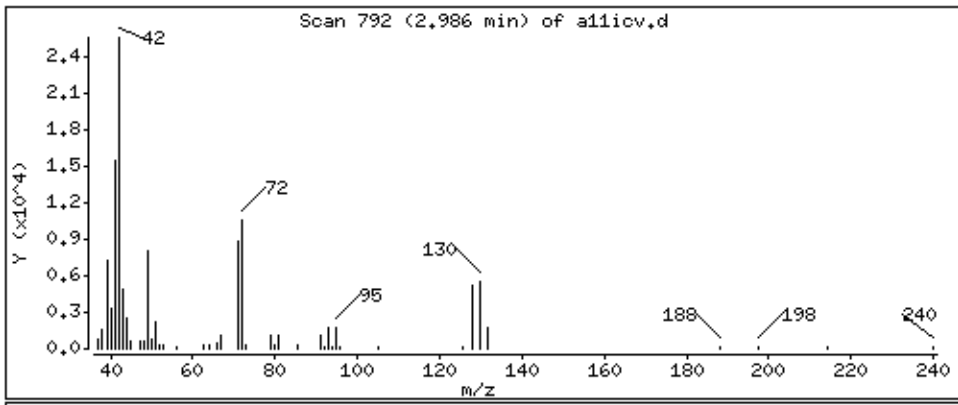
Operator: dae

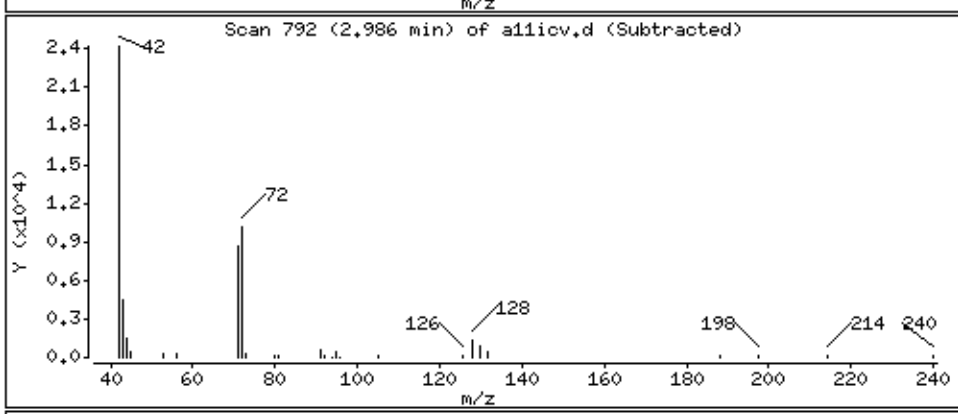
Column phase: DB-624

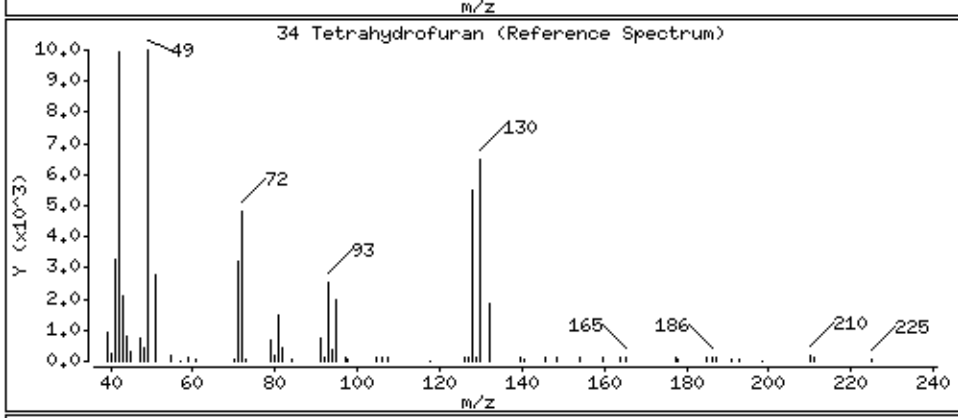
Column diameter: 0.18

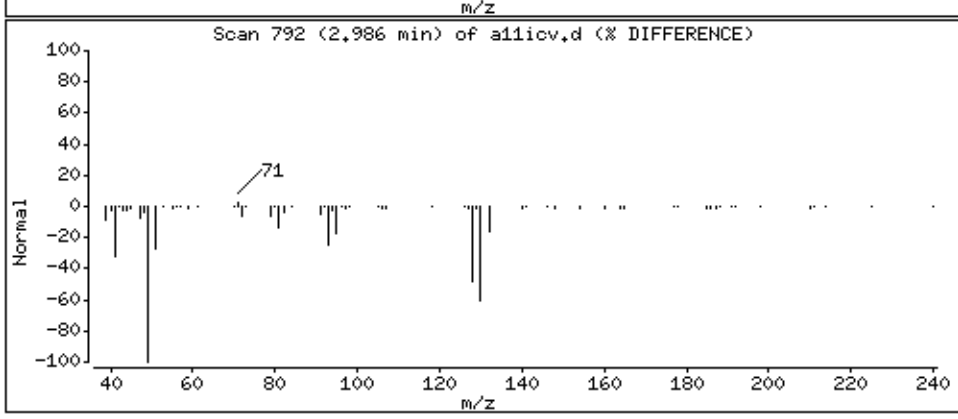
34 Tetrahydrofuran

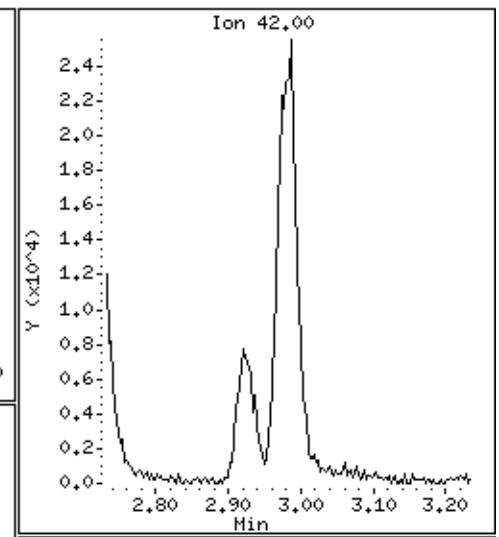
Concentration: 56.5 ppb

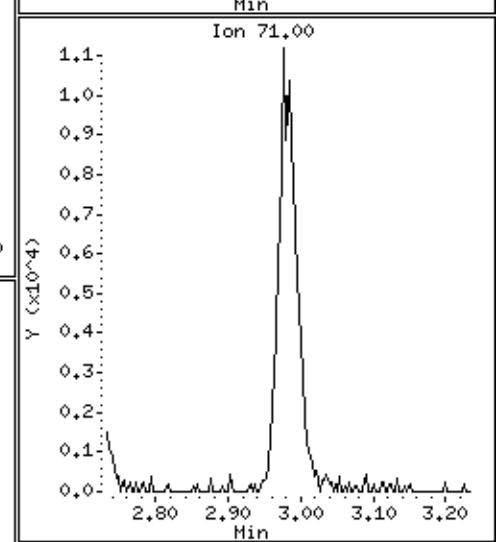


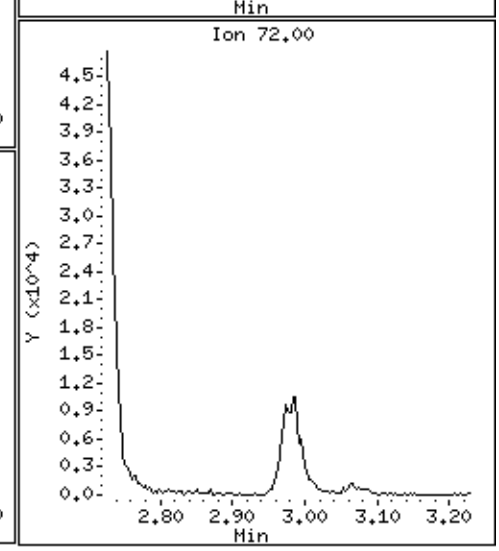












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

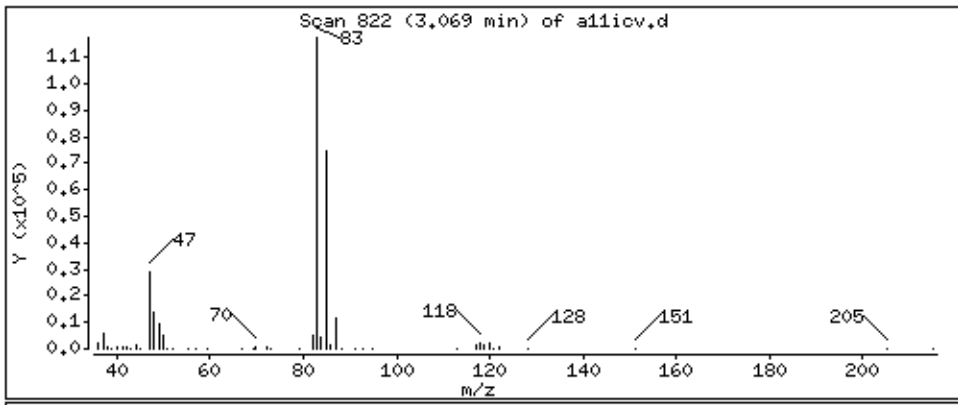
Operator: dae

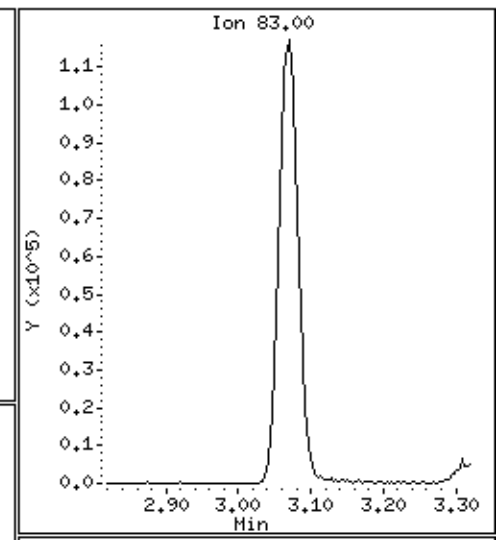
Column phase: DB-624

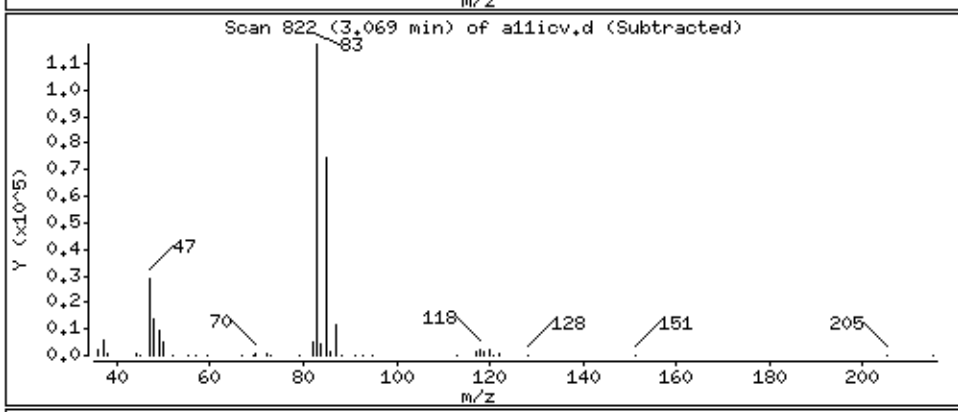
Column diameter: 0.18

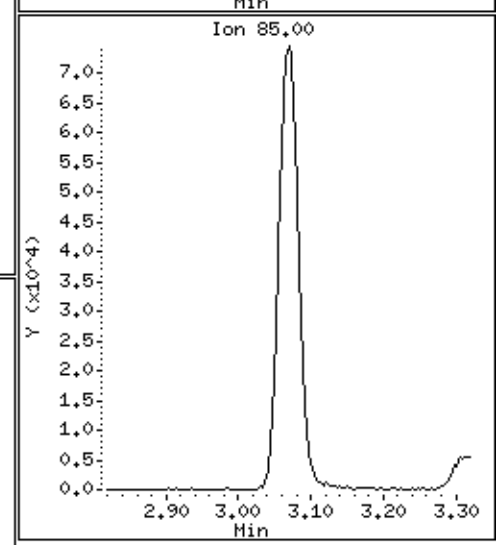
35 Chloroform

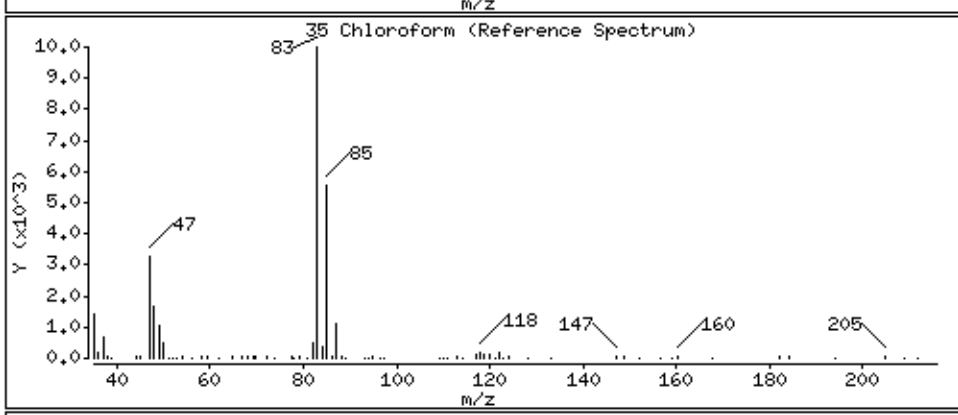
Concentration: 48.4 ppb

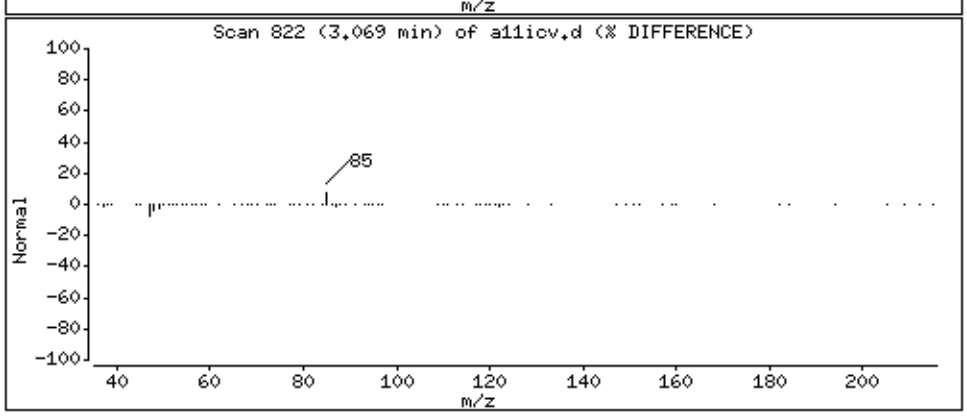












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

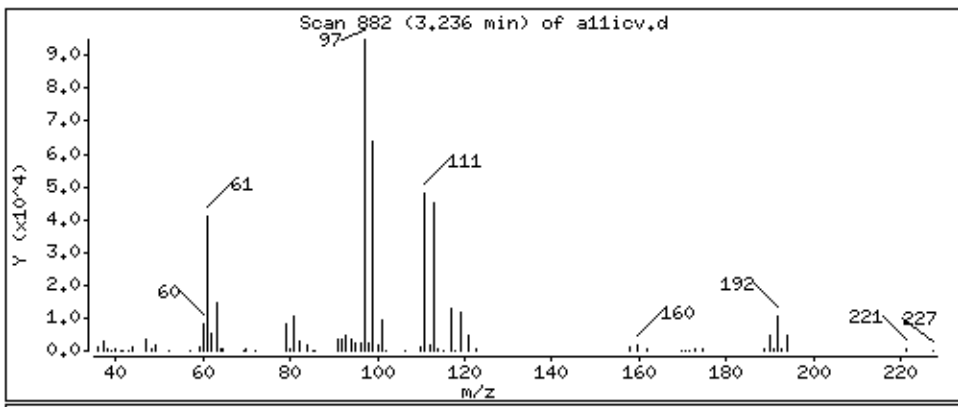
Operator: dae

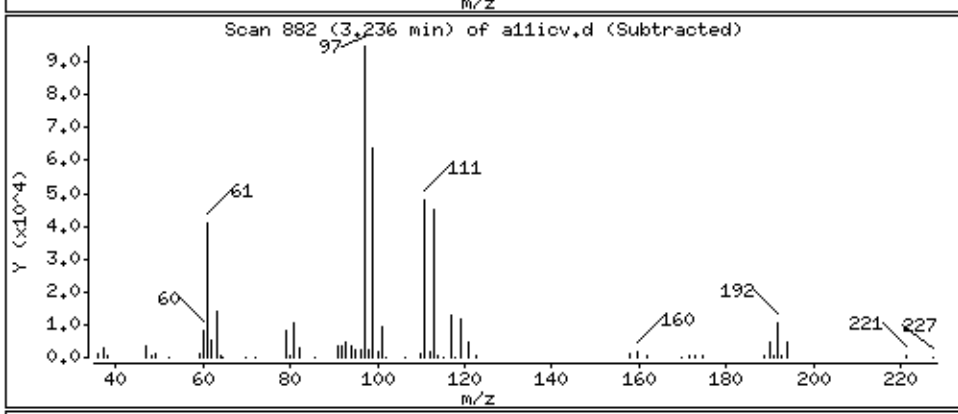
Column phase: DB-624

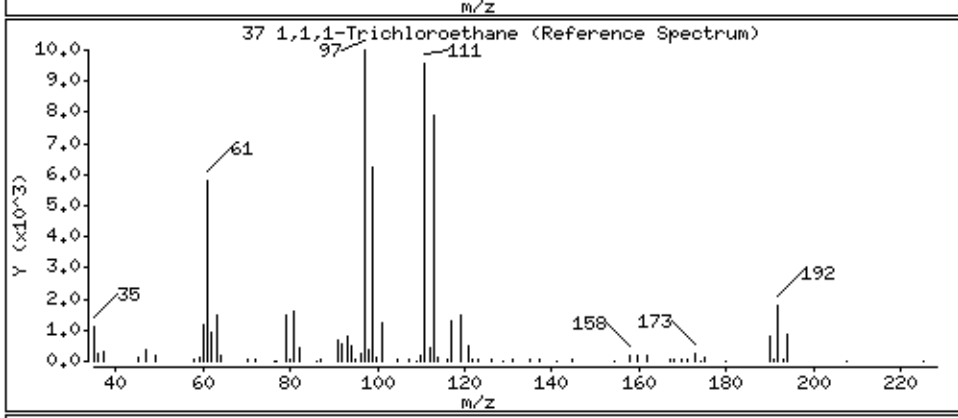
Column diameter: 0.18

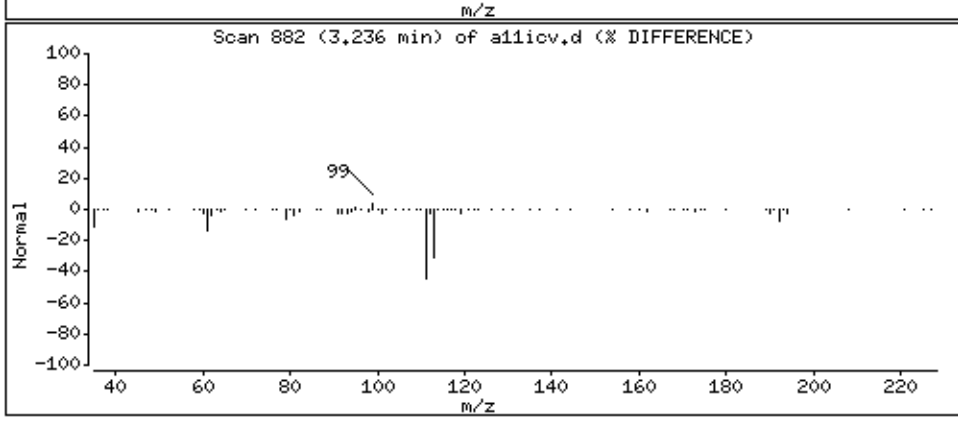
37 1,1,1-Trichloroethane

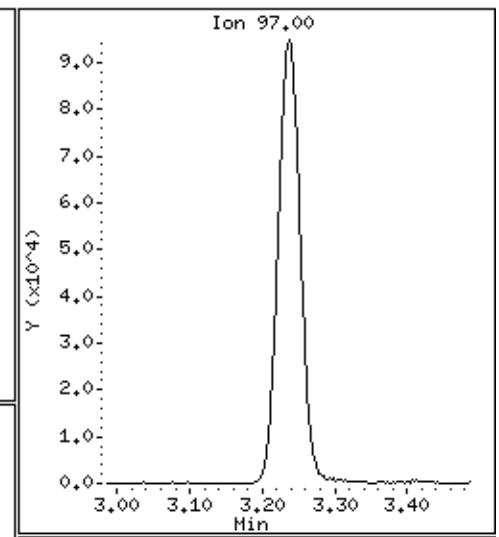
Concentration: 45.6 ppb

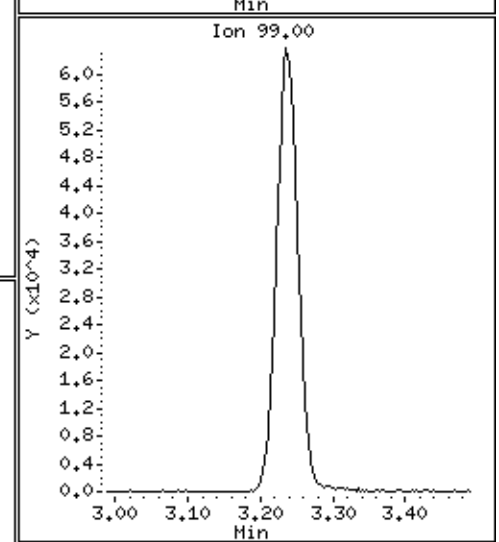


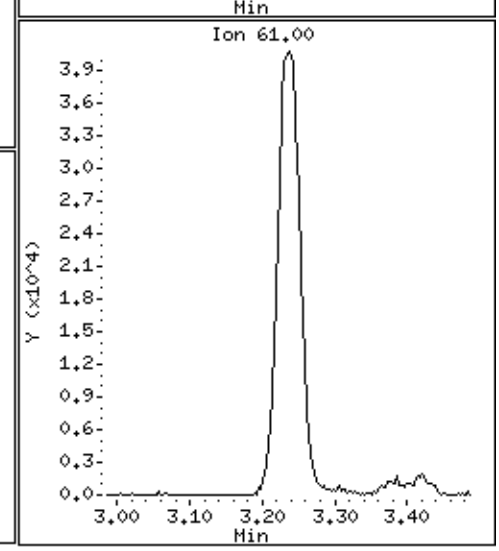












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

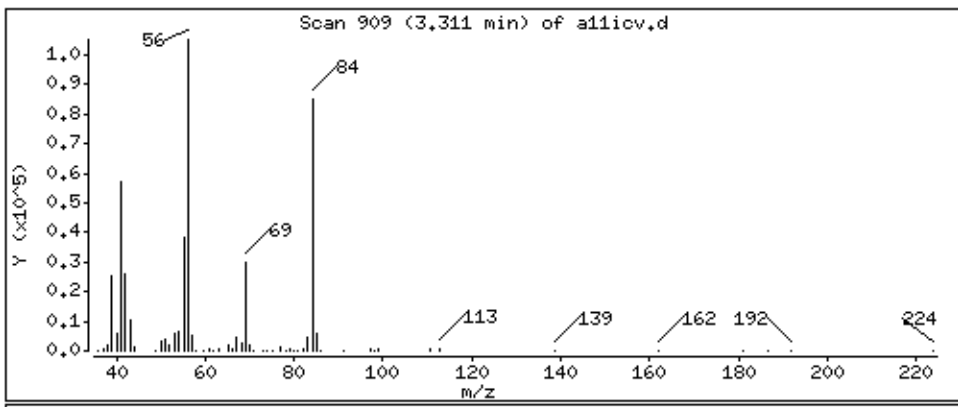
Operator: dae

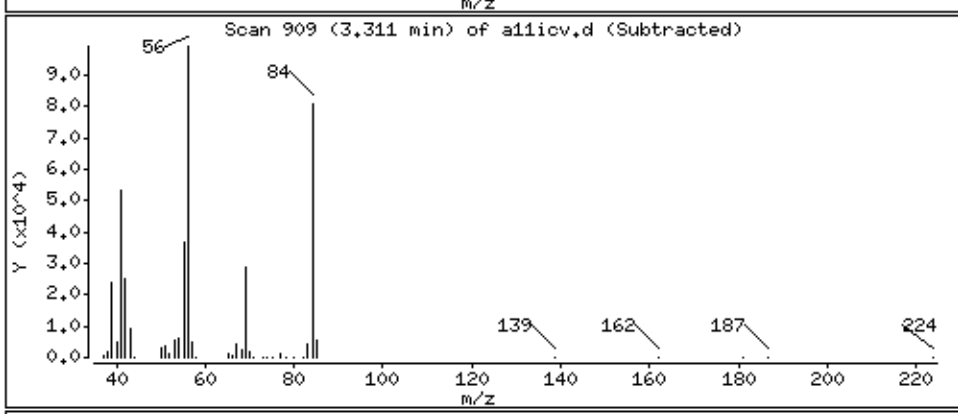
Column phase: DB-624

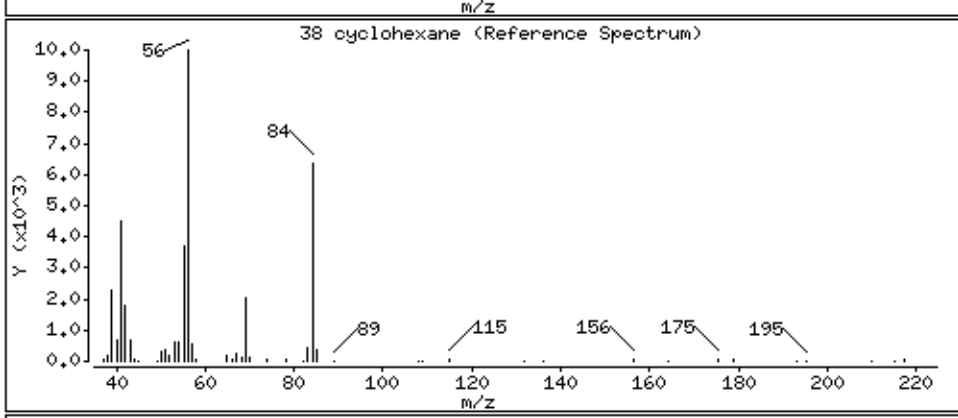
Column diameter: 0.18

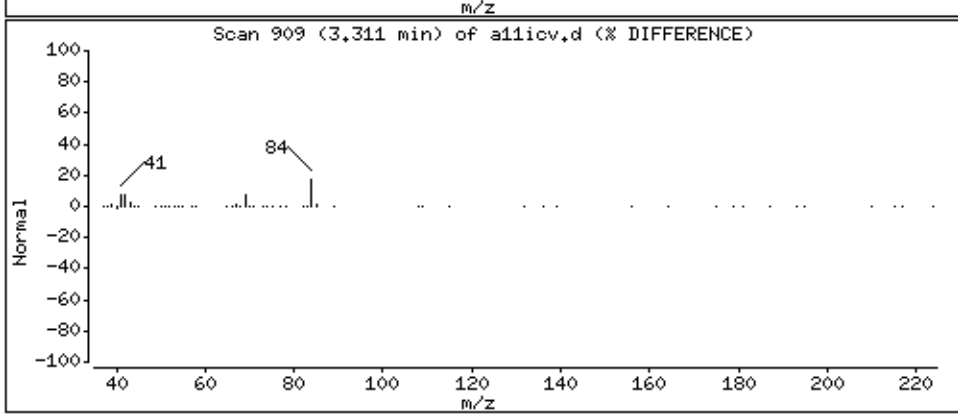
38 cyclohexane

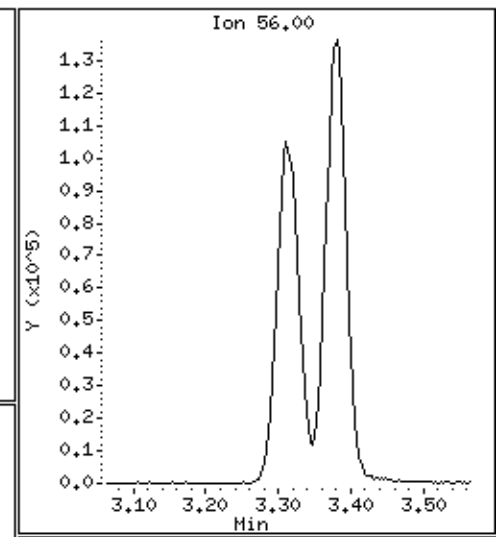
Concentration: 48.2 ppb

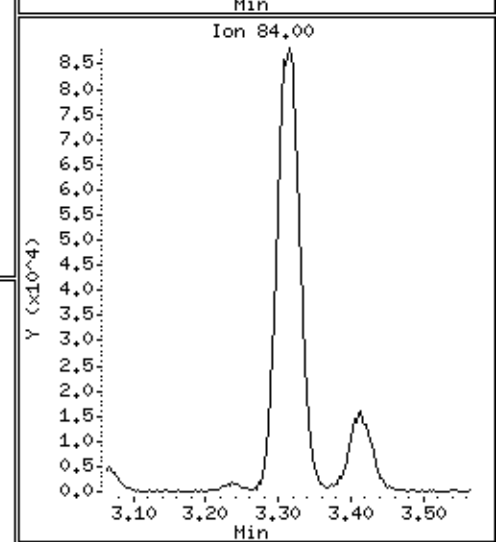


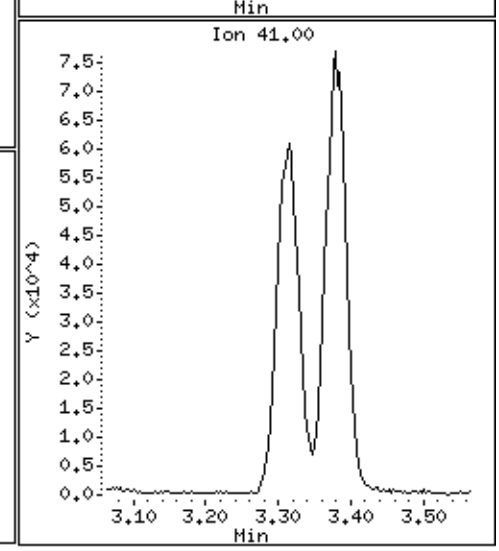












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

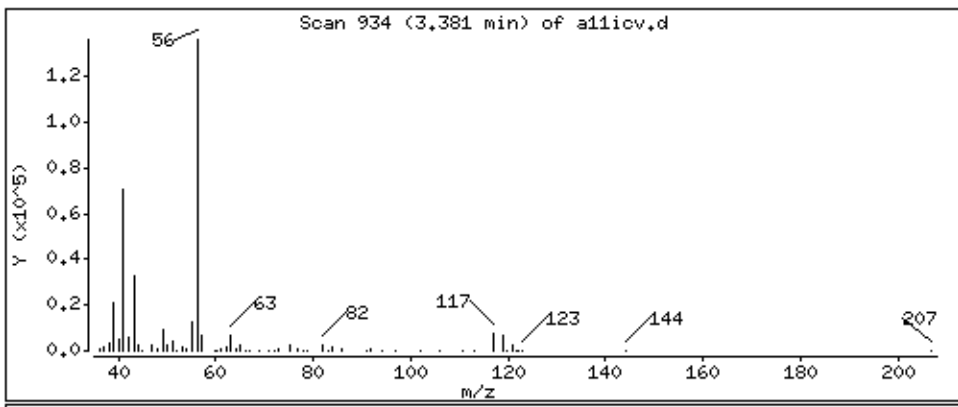
Operator: dae

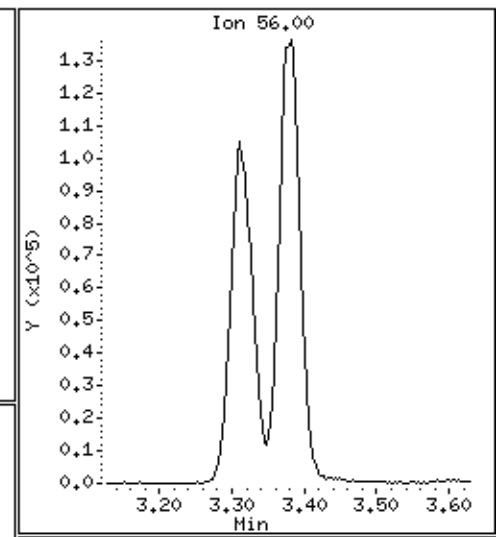
Column phase: DB-624

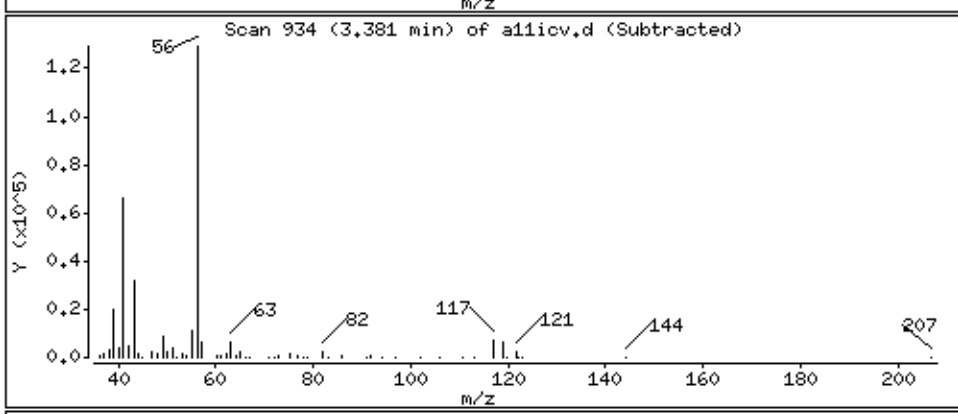
Column diameter: 0.18

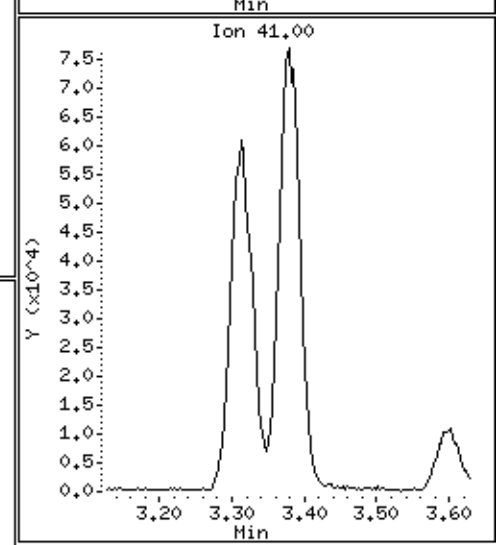
150 n-butyl chloride

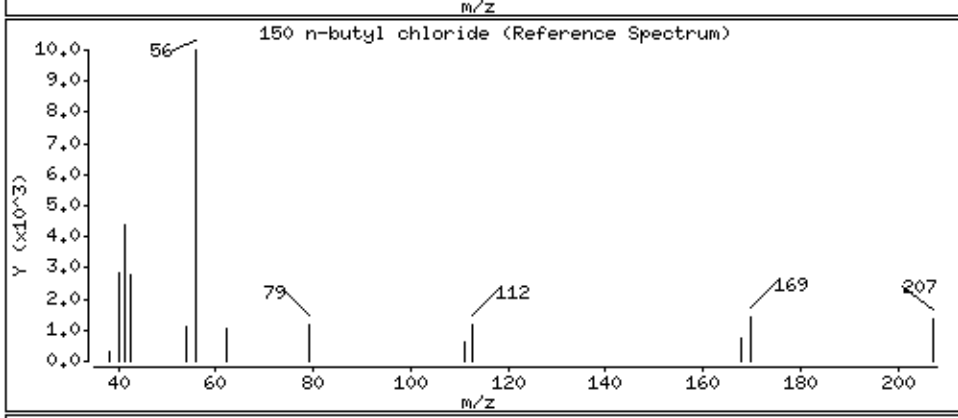
Concentration: 48.2 ppb

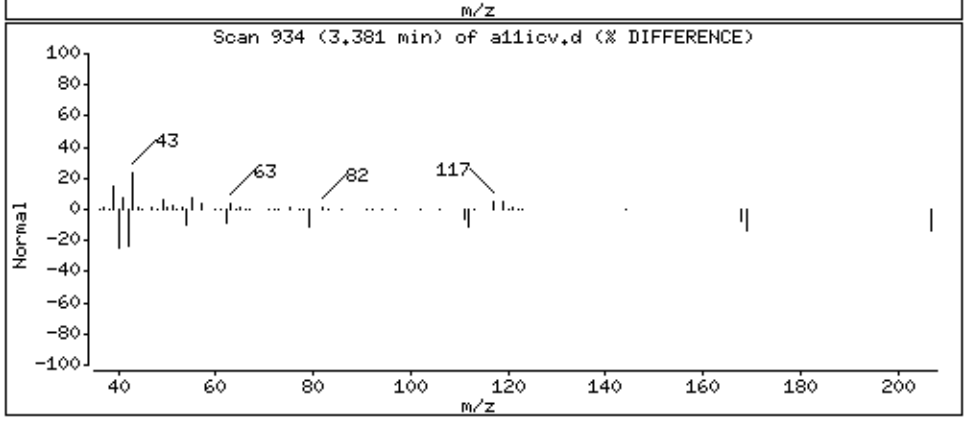












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

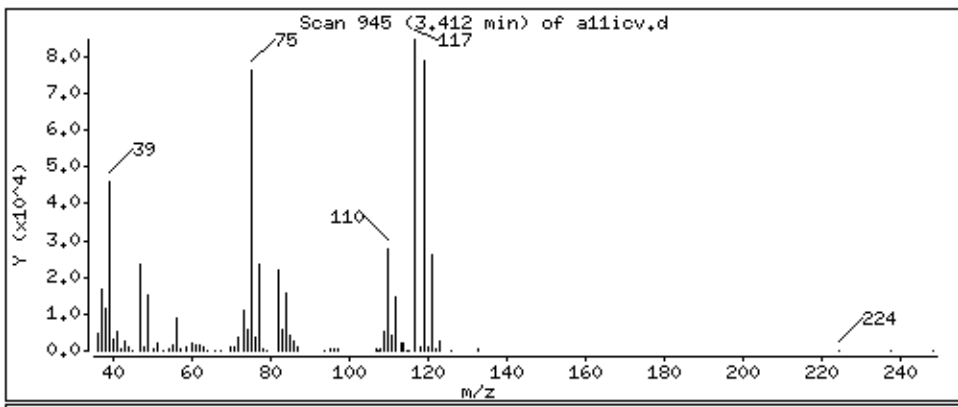
Operator: dae

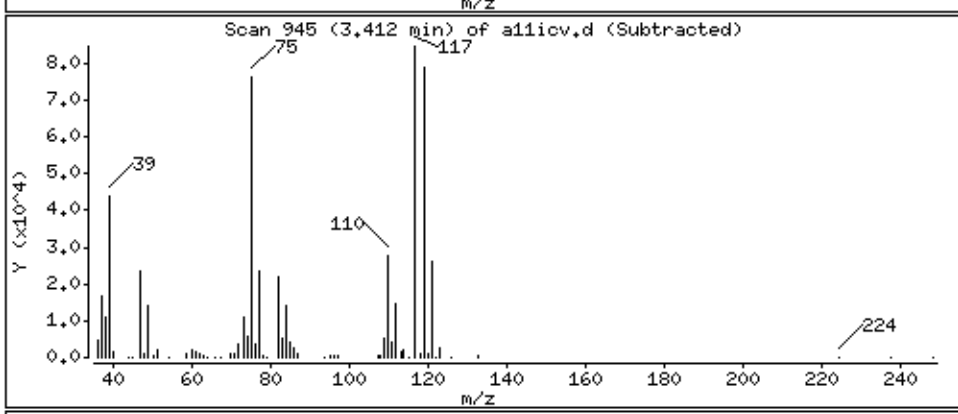
Column phase: DB-624

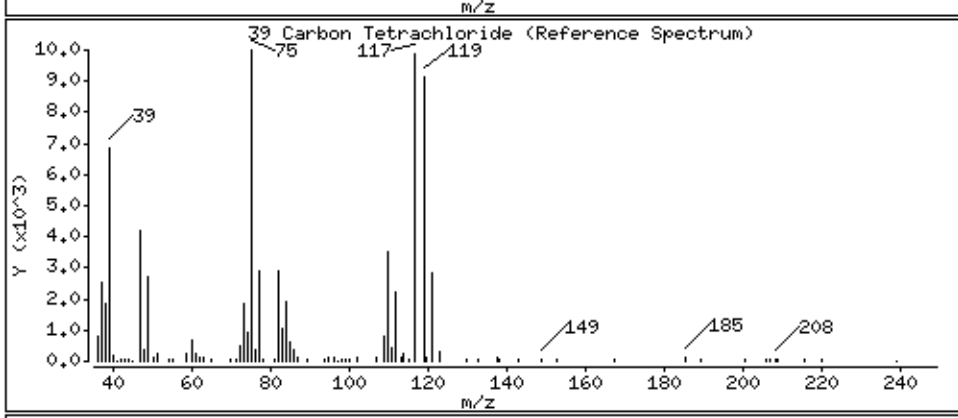
Column diameter: 0.18

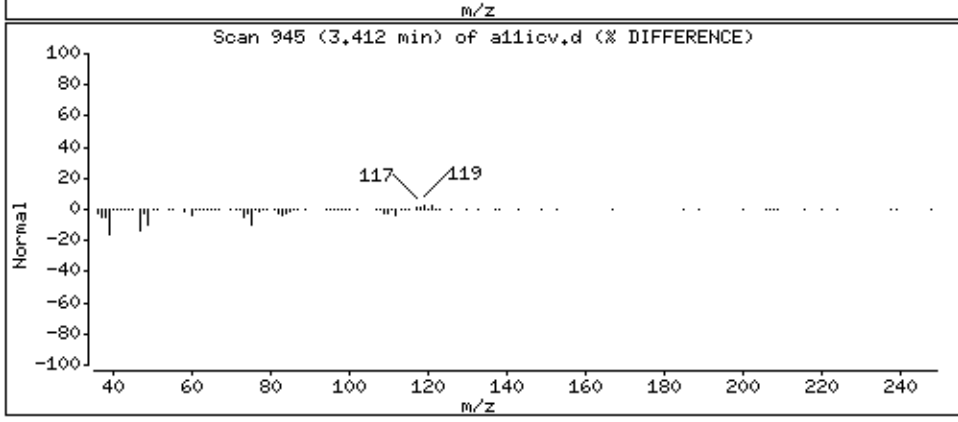
39 Carbon Tetrachloride

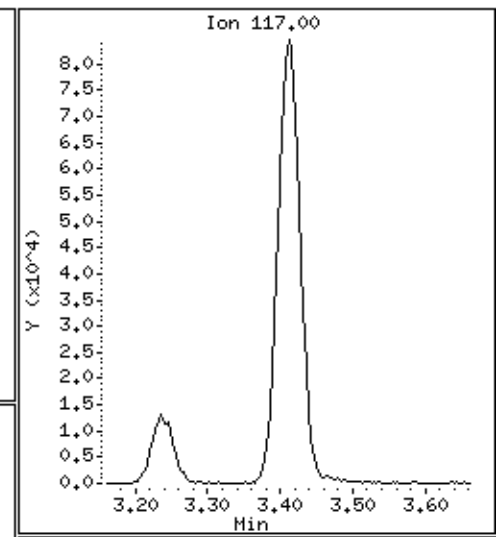
Concentration: 47.2 ppb

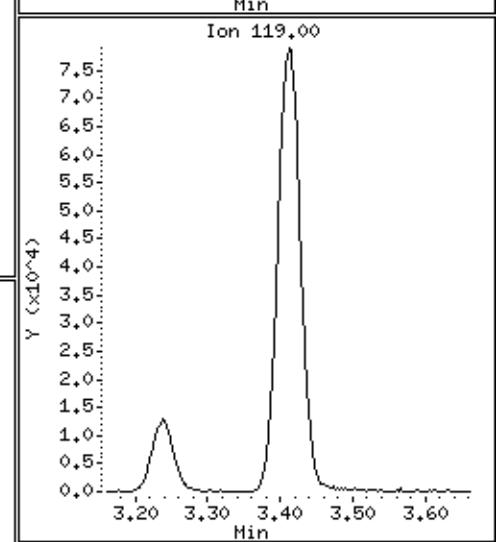


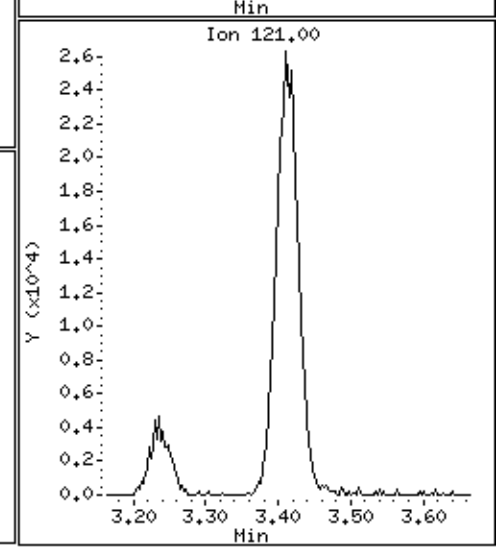












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

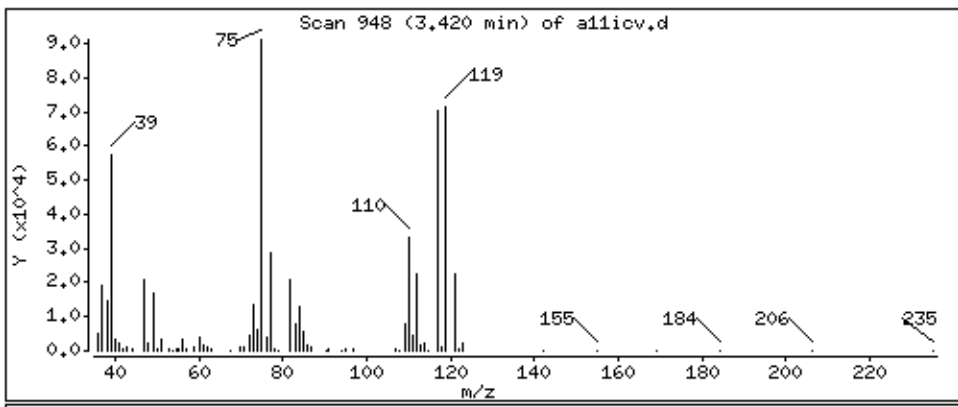
Operator: dae

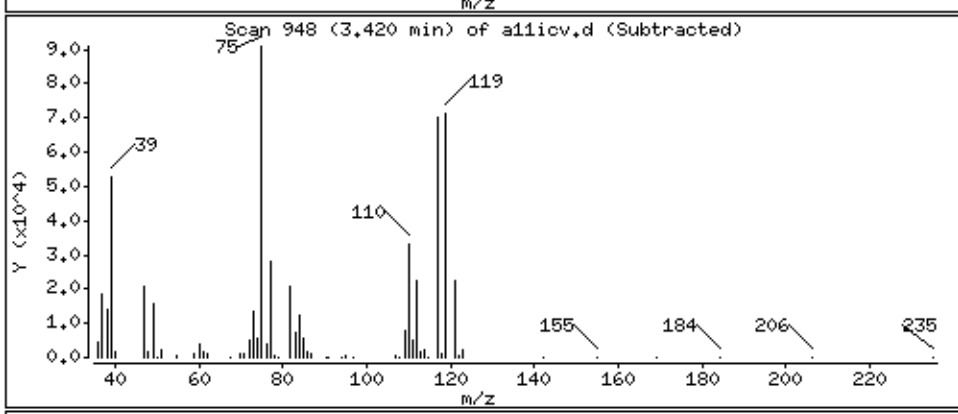
Column phase: DB-624

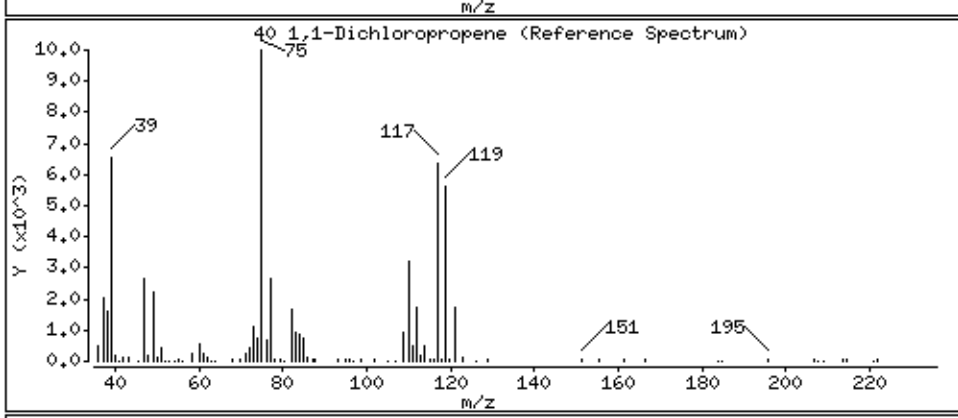
Column diameter: 0.18

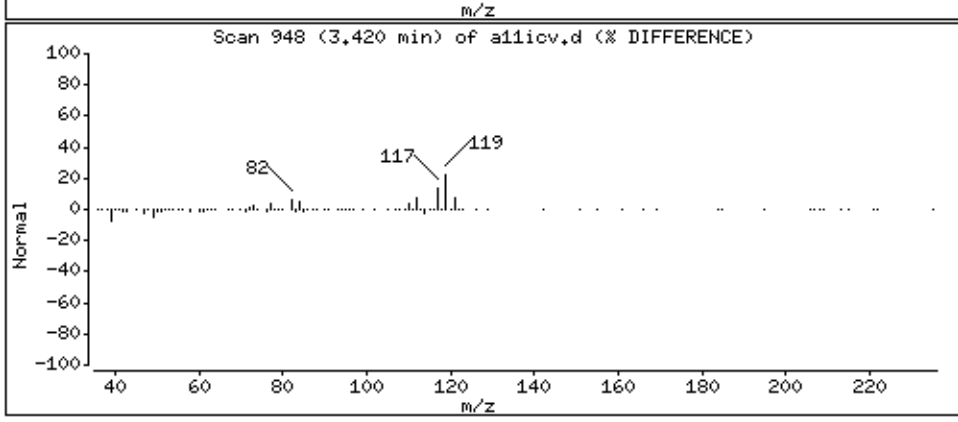
40 1,1-Dichloropropene

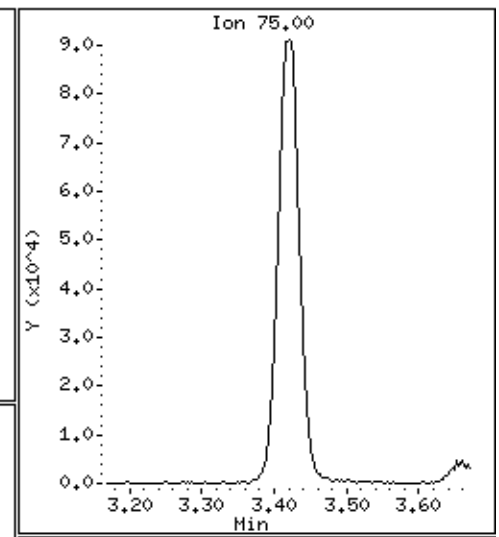
Concentration: 49.9 ppb

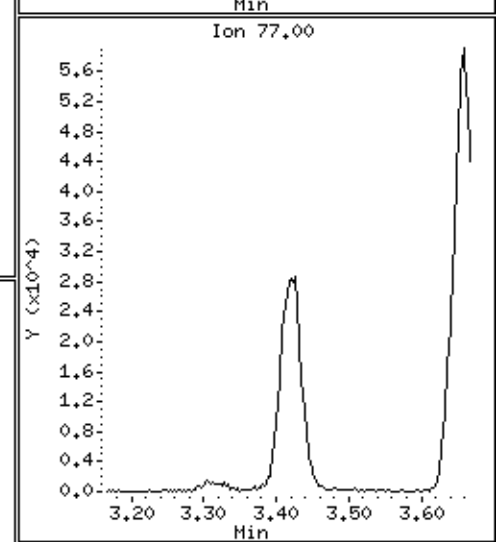


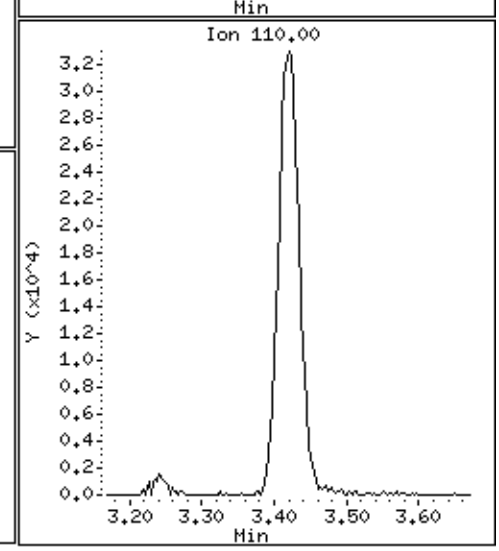












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

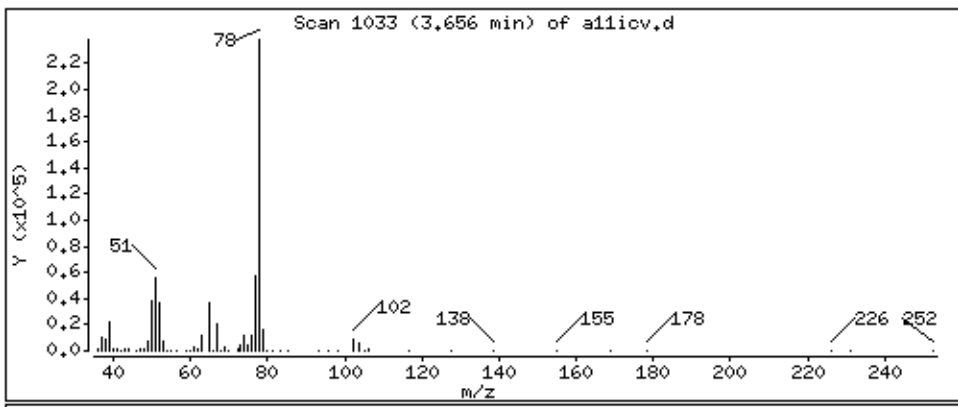
Operator: dae

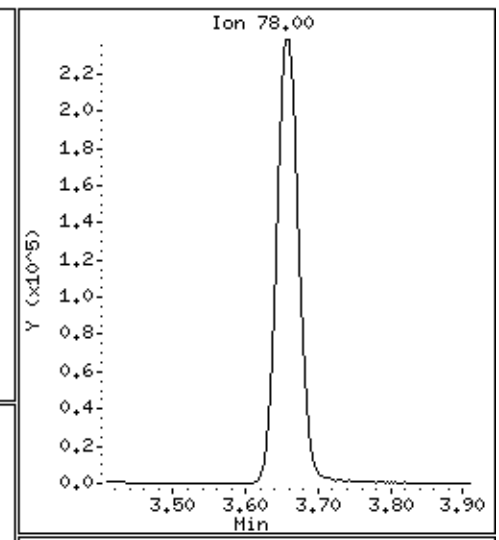
Column phase: DB-624

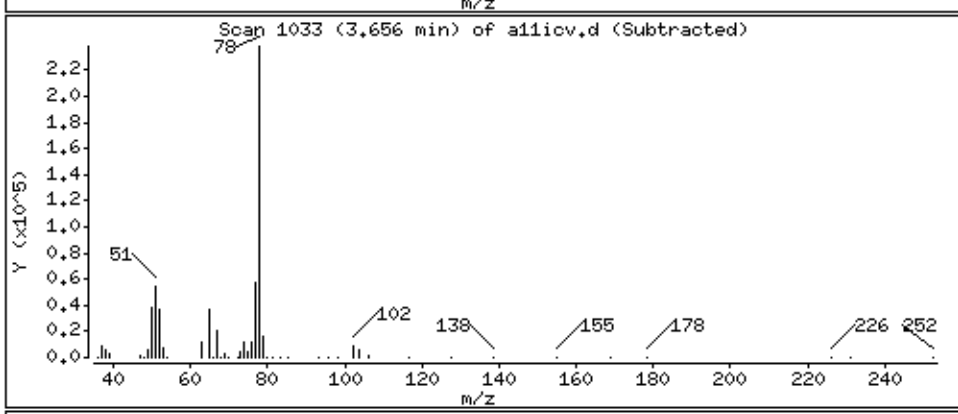
Column diameter: 0.18

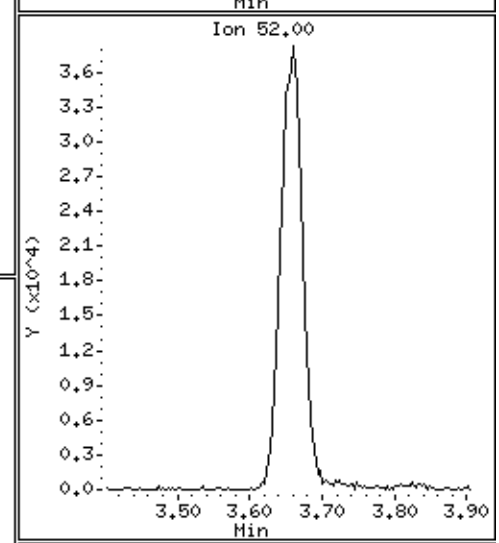
41 Benzene

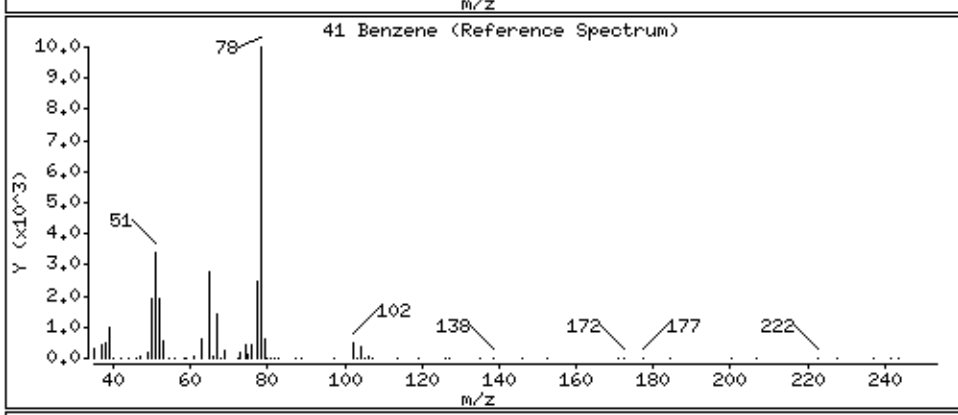
Concentration: 47.2 ppb

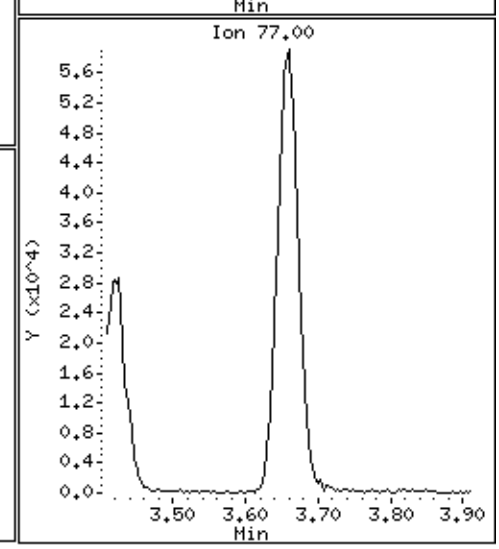


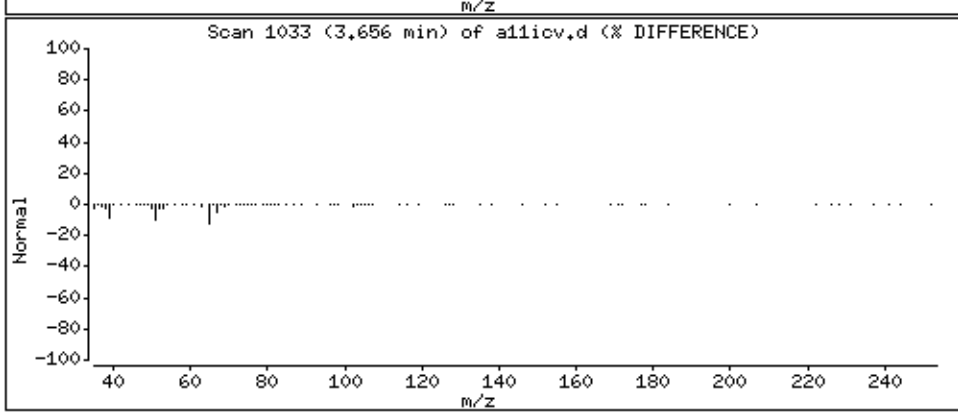












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

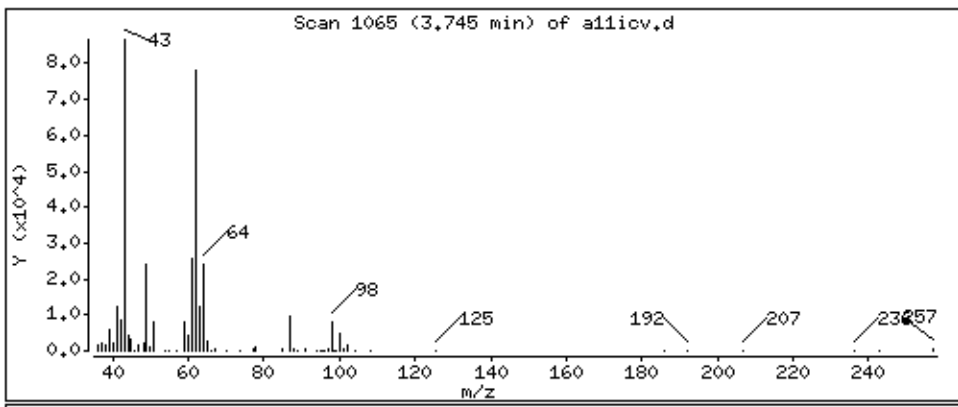
Operator: dae

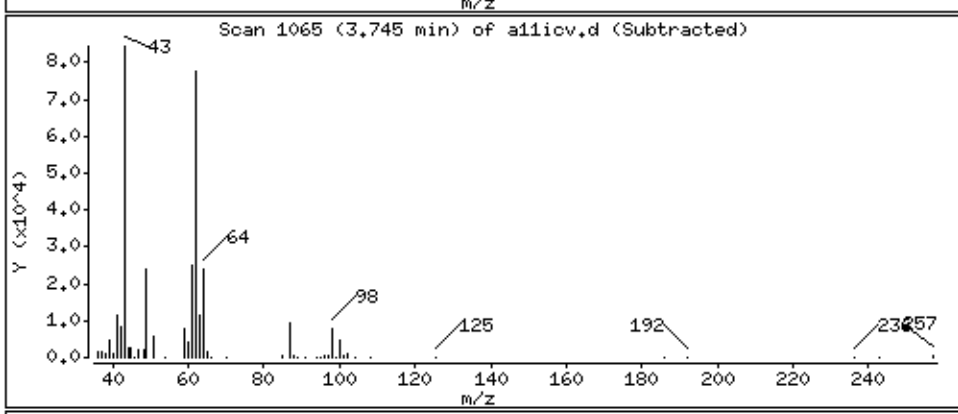
Column phase: DB-624

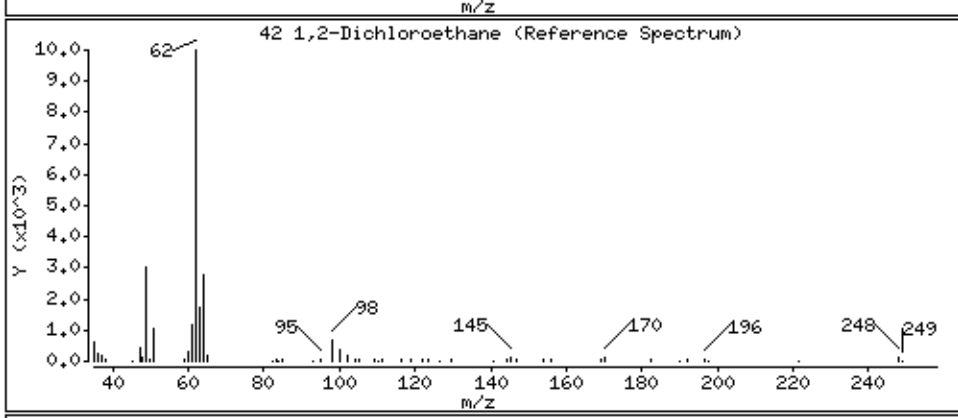
Column diameter: 0.18

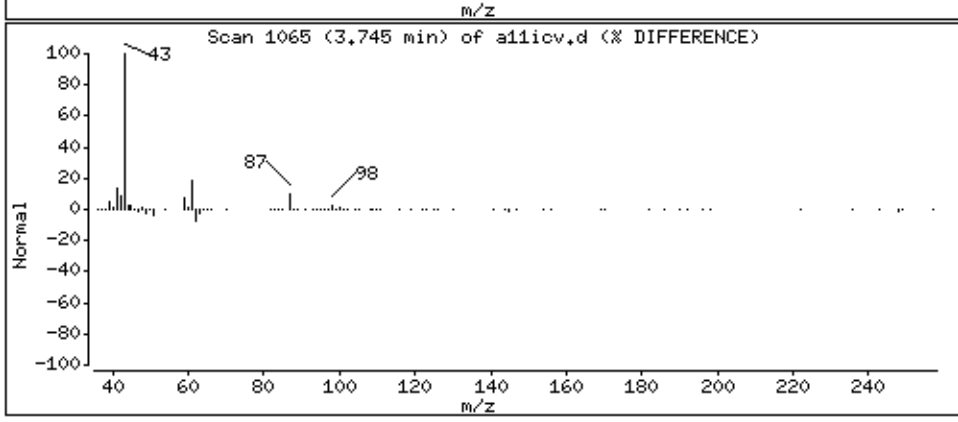
42 1,2-Dichloroethane

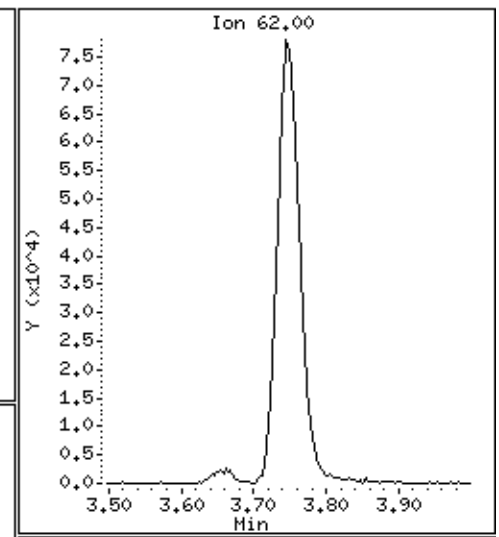
Concentration: 46.2 ppb

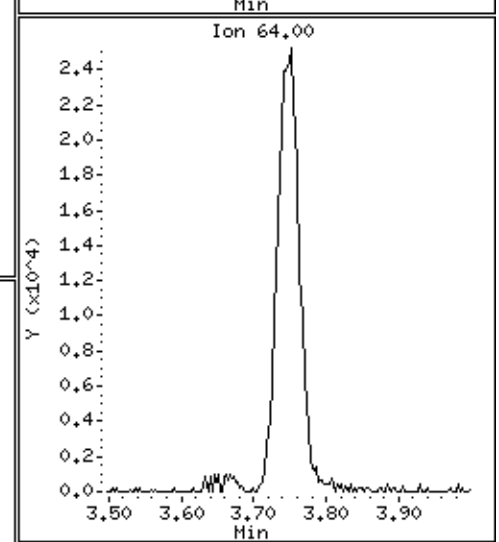


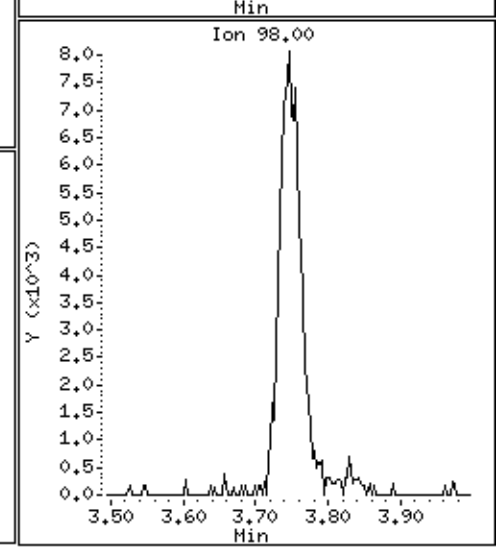












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

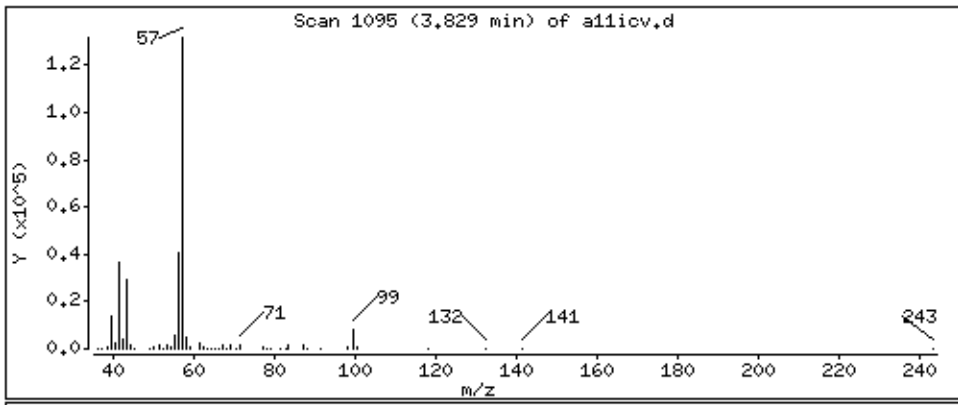
Operator: dae

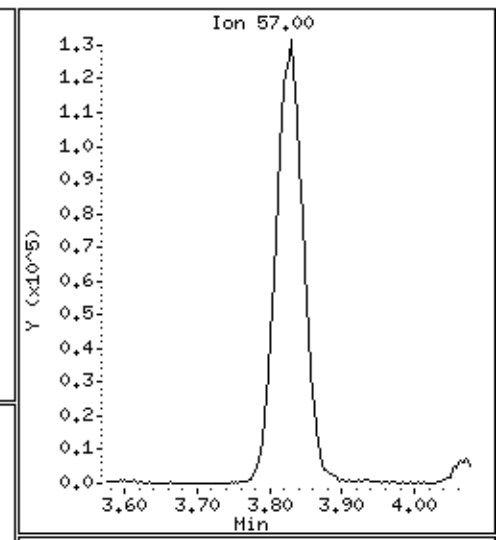
Column phase: DB-624

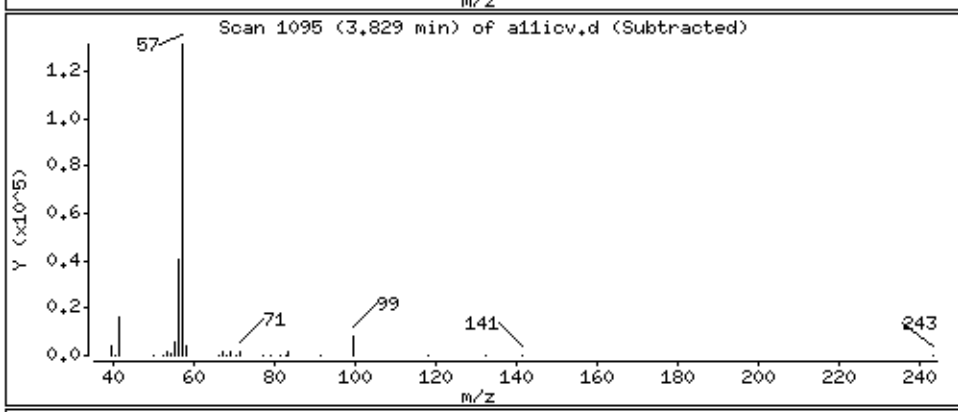
Column diameter: 0.18

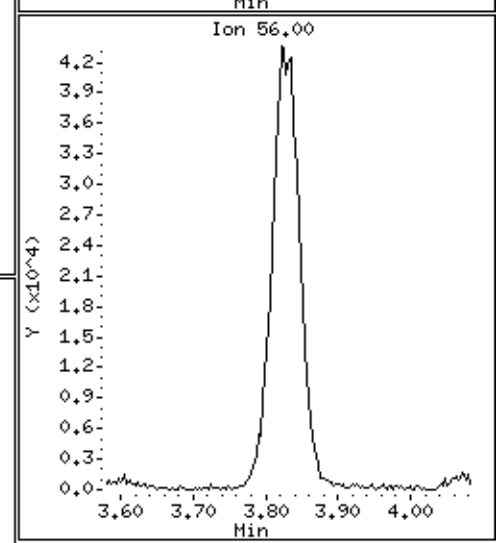
43 2,2,4-Trimethylpentane

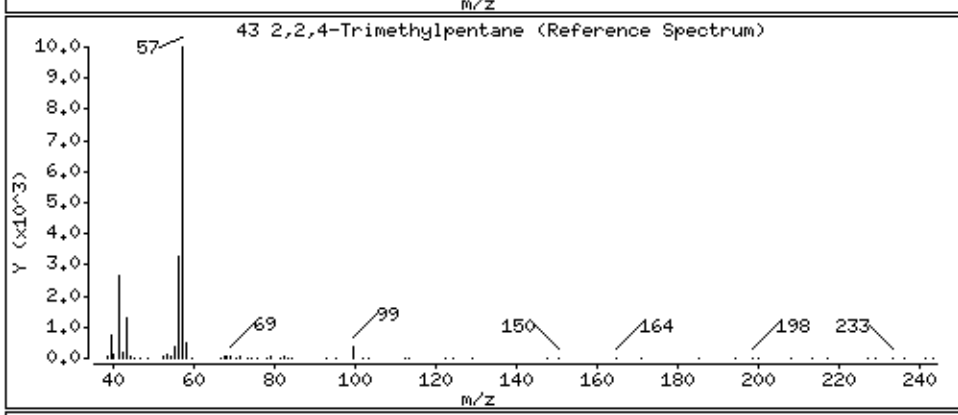
Concentration: 51.3 ppb

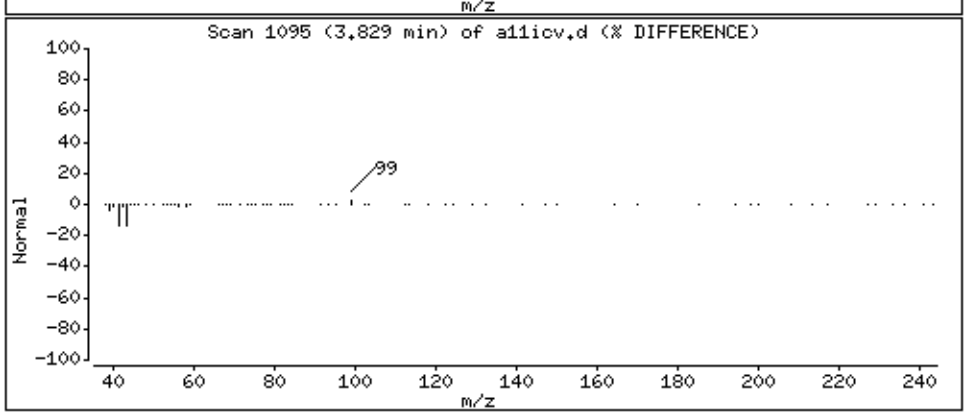












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

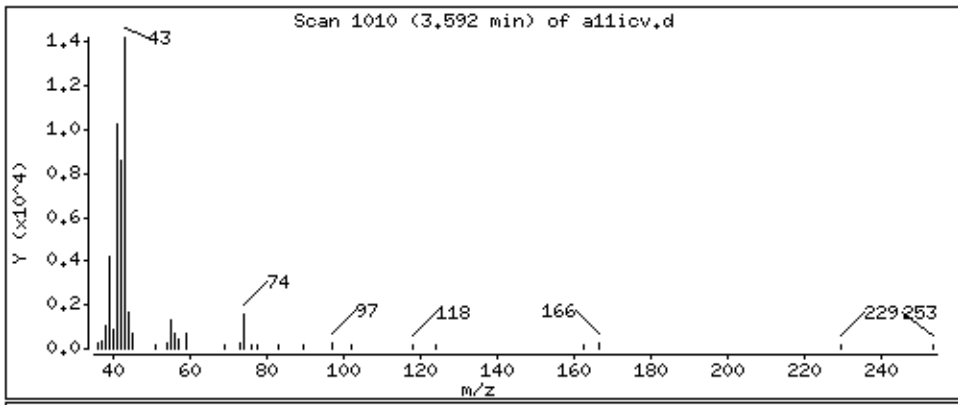
Operator: dae

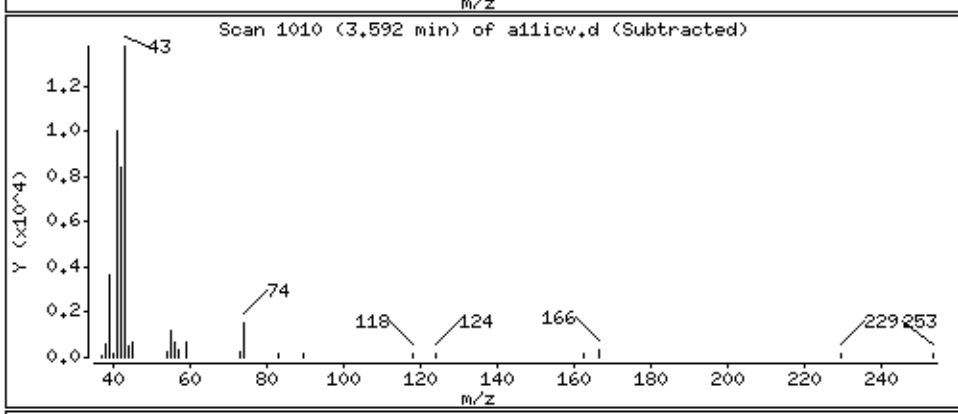
Column phase: DB-624

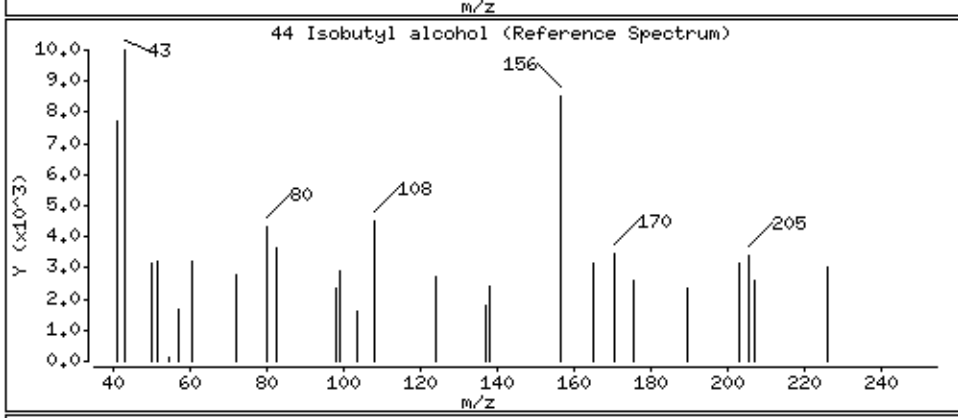
Column diameter: 0.18

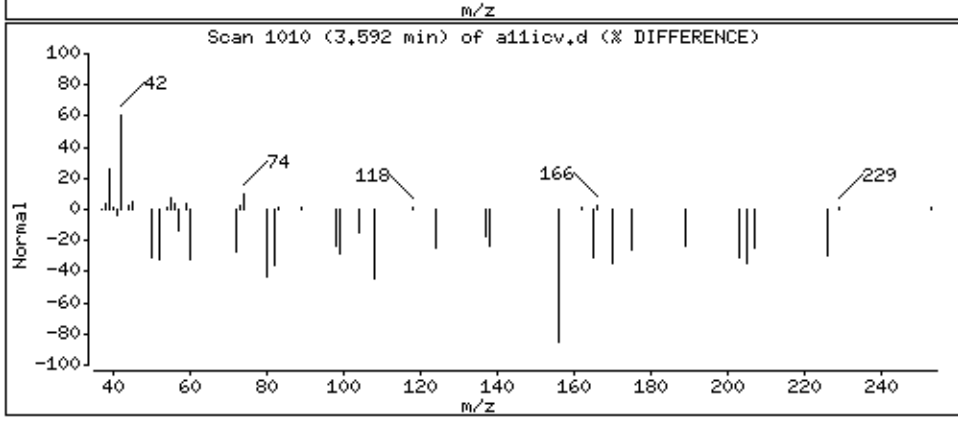
44 Isobutyl alcohol

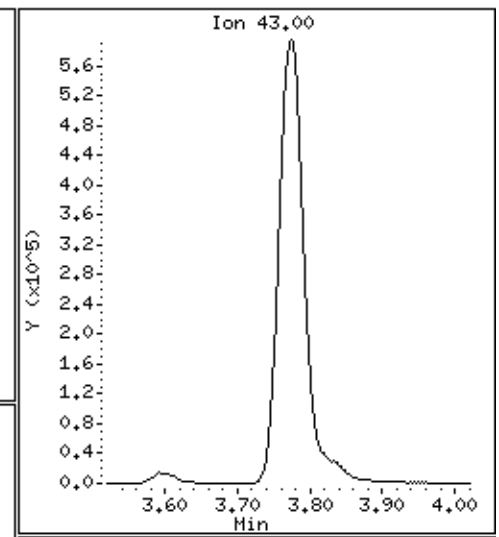
Concentration: 1.29 ppb

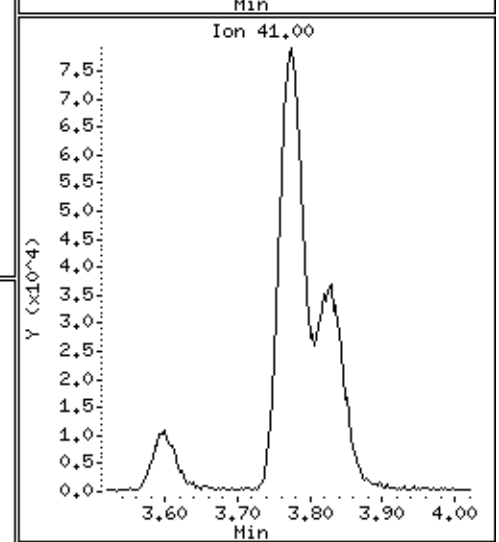


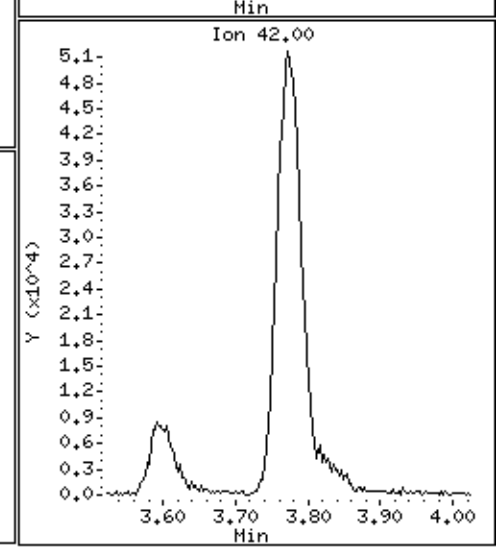












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

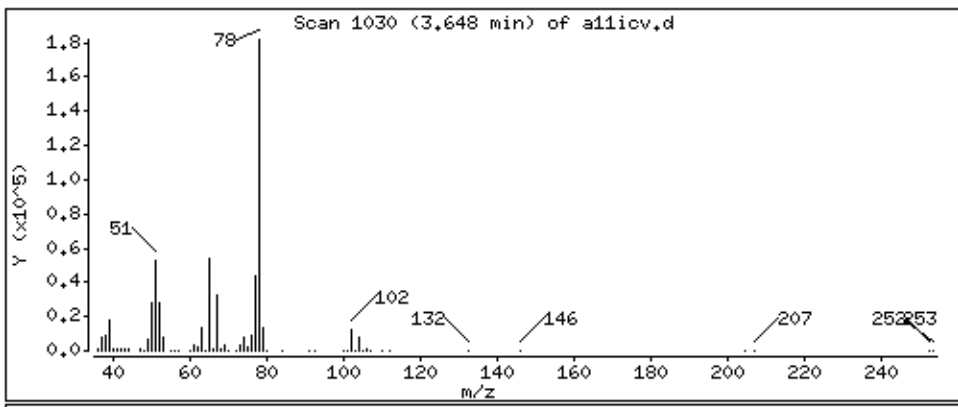
Operator: dae

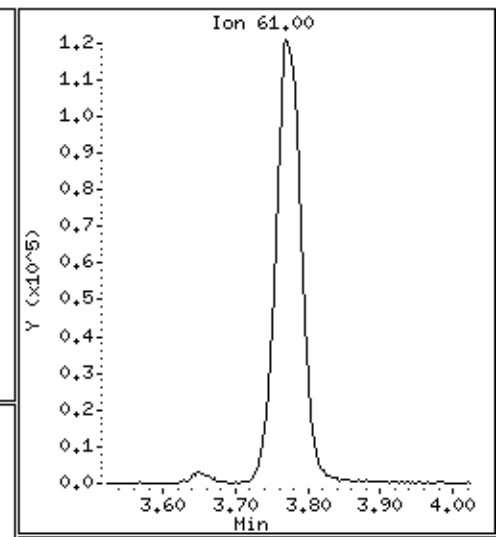
Column phase: DB-624

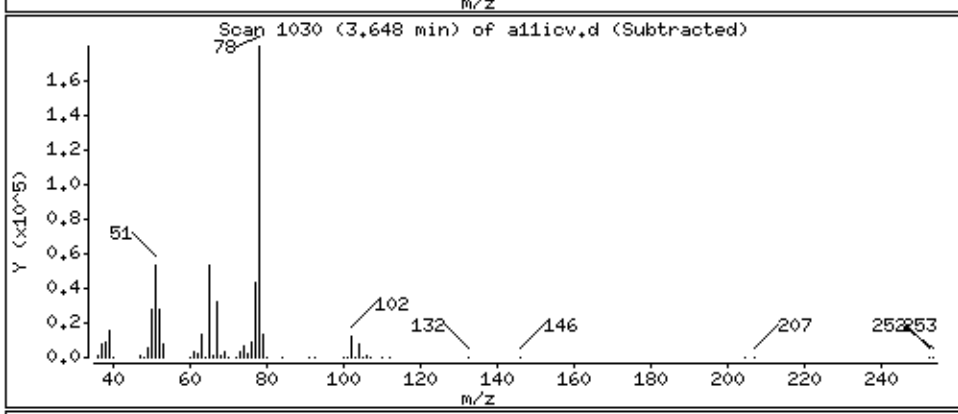
Column diameter: 0.18

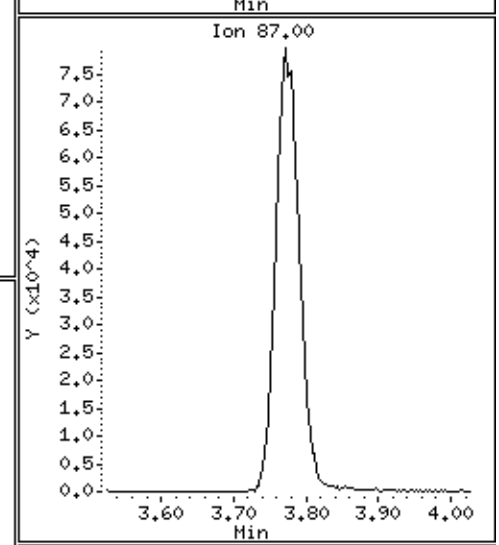
46 isopropyl acetate

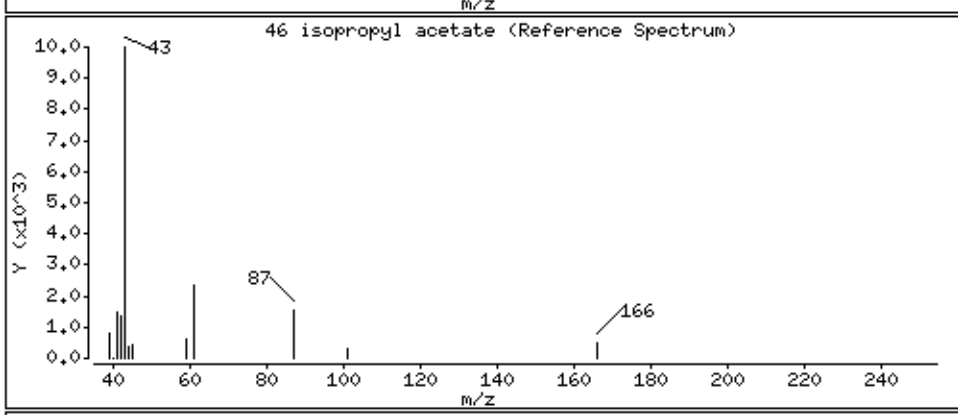
Concentration: 4.52 ppb

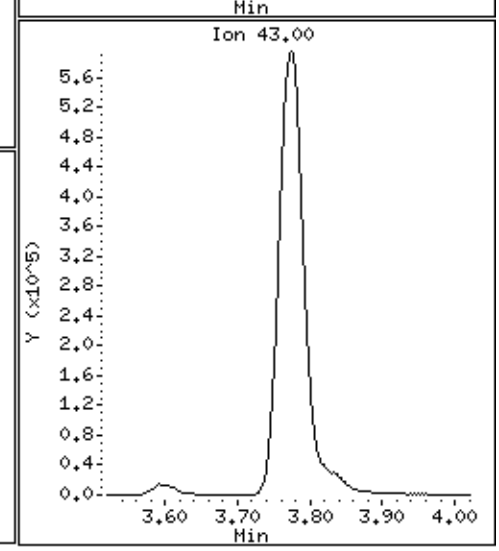


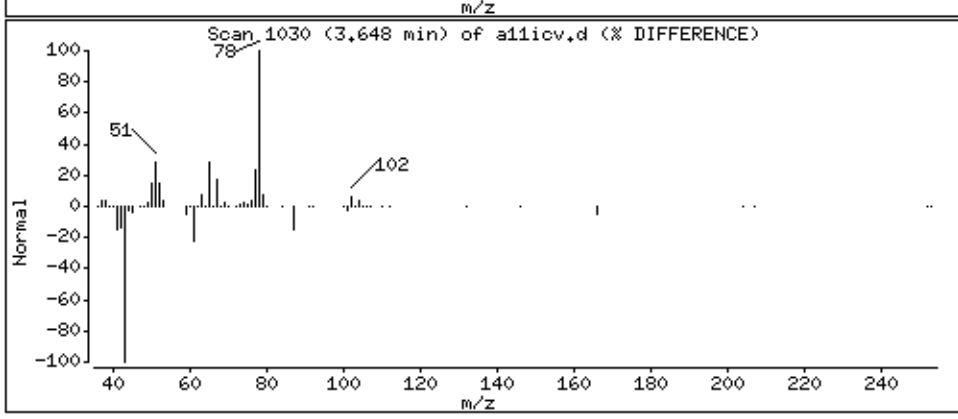












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

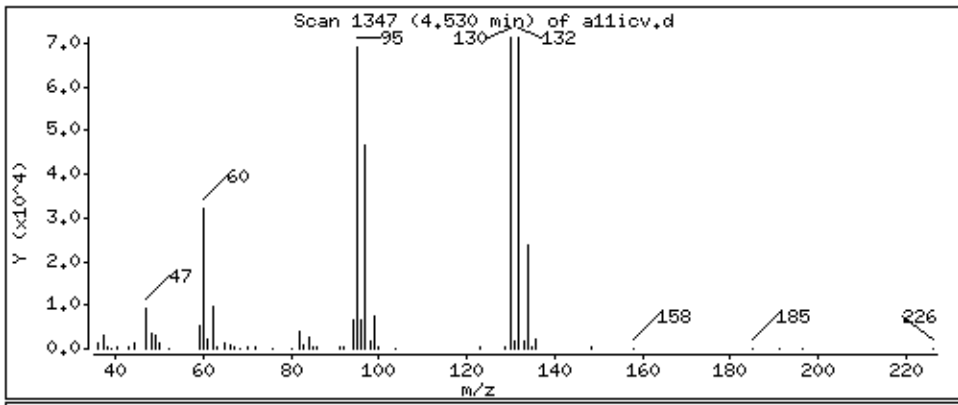
Operator: dae

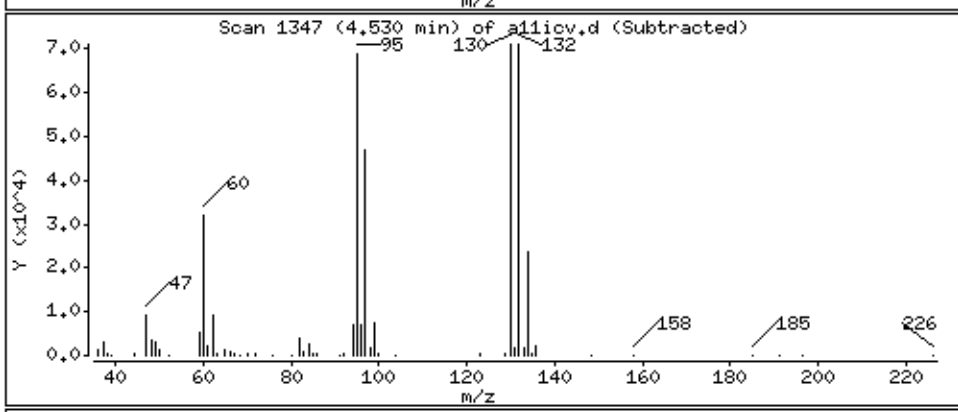
Column phase: DB-624

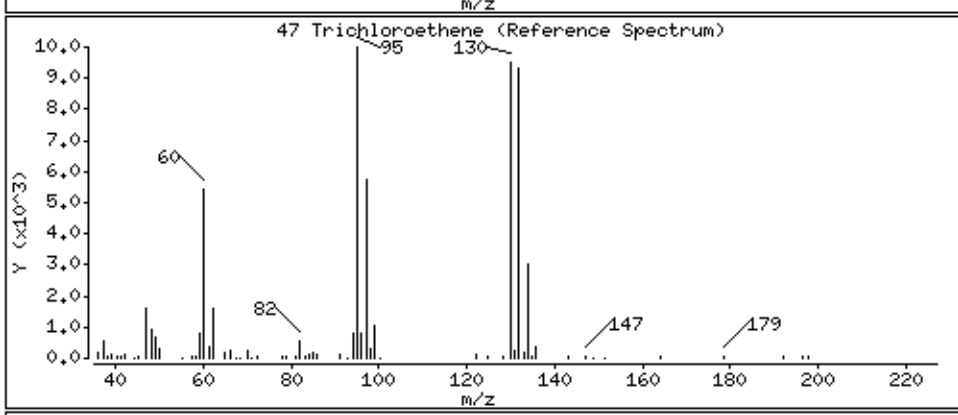
Column diameter: 0.18

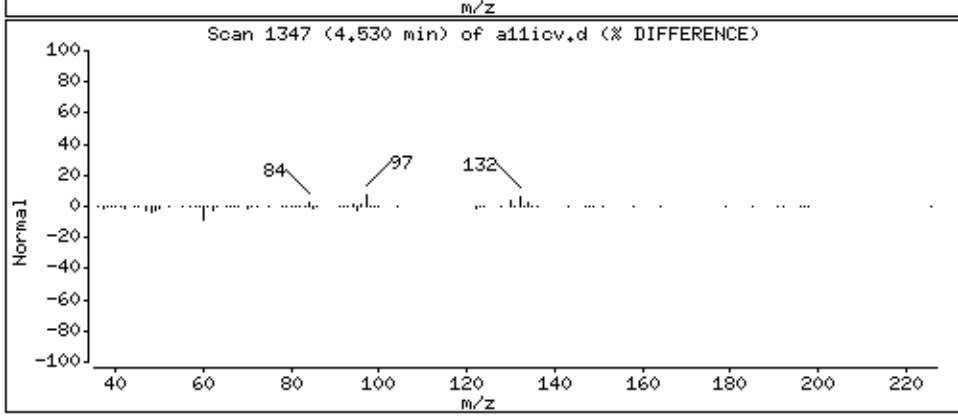
47 Trichloroethene

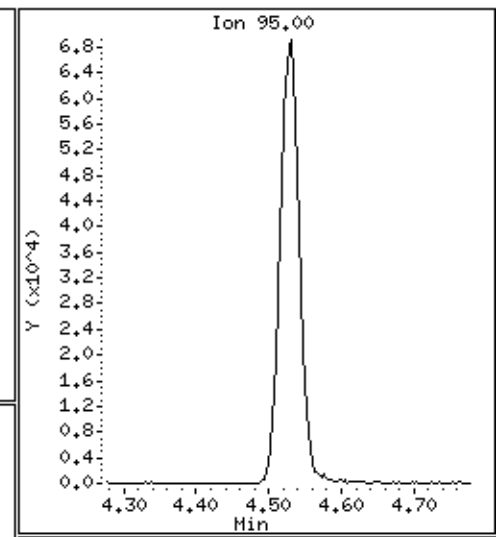
Concentration: 47.8 ppb

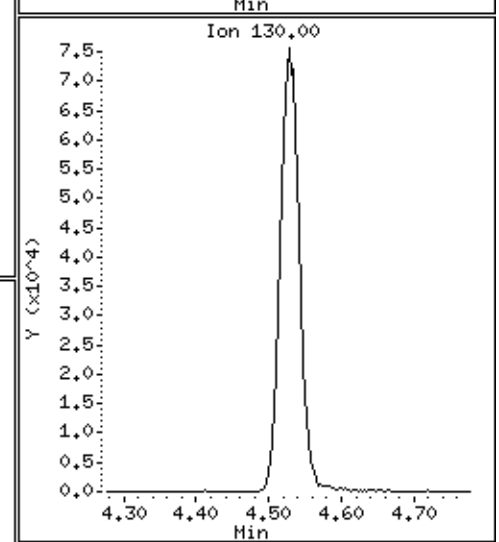


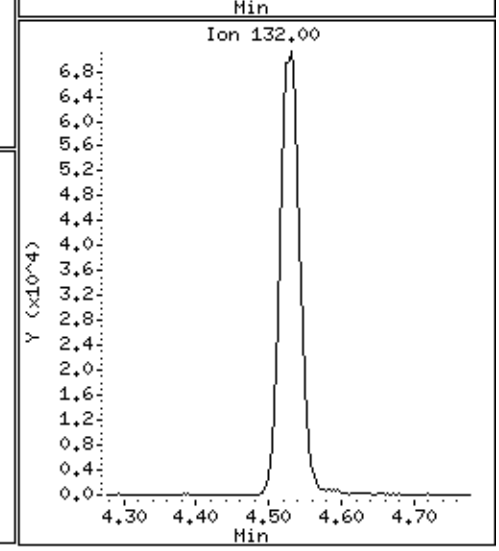












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

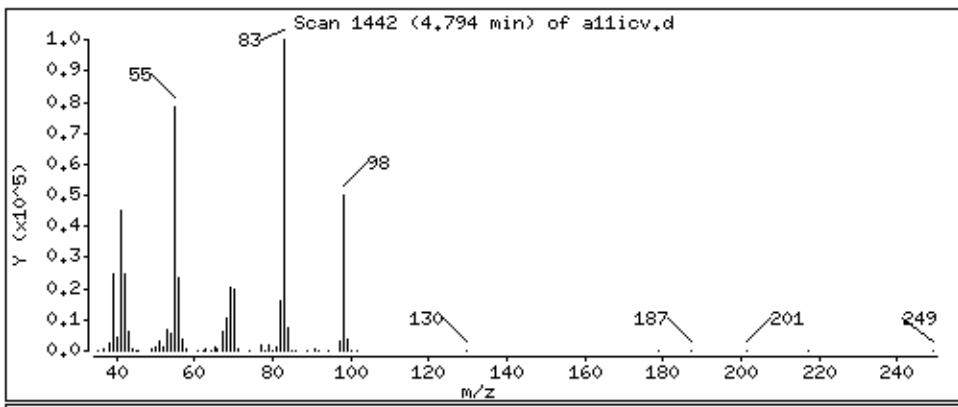
Operator: dae

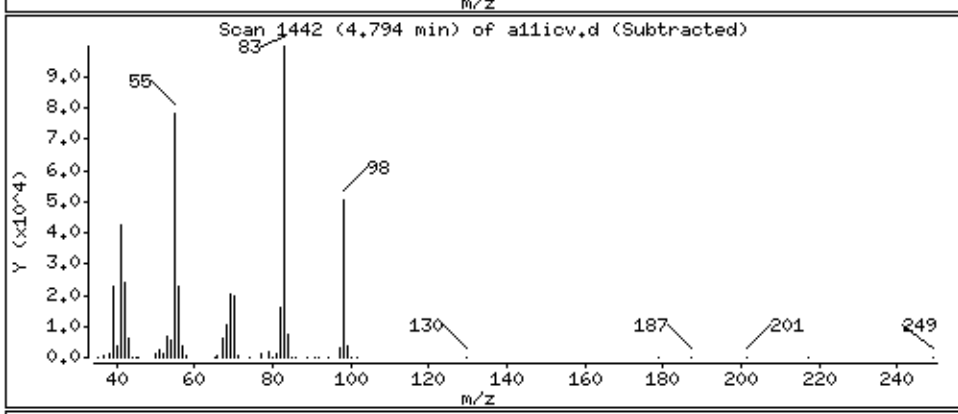
Column phase: DB-624

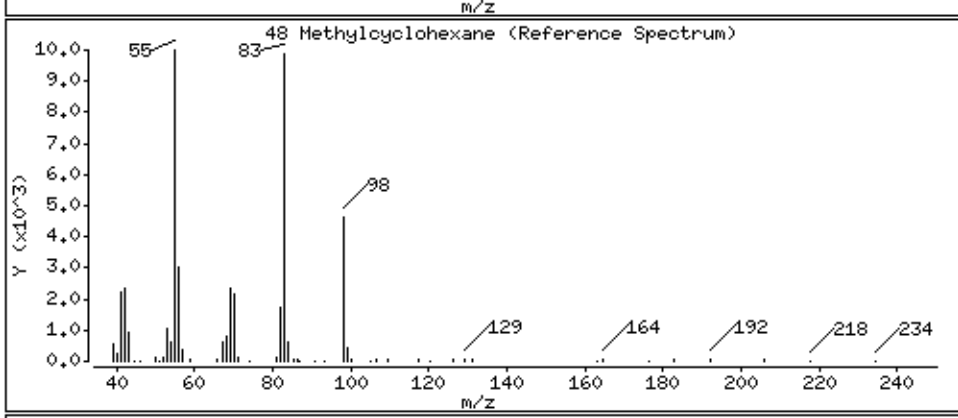
Column diameter: 0.18

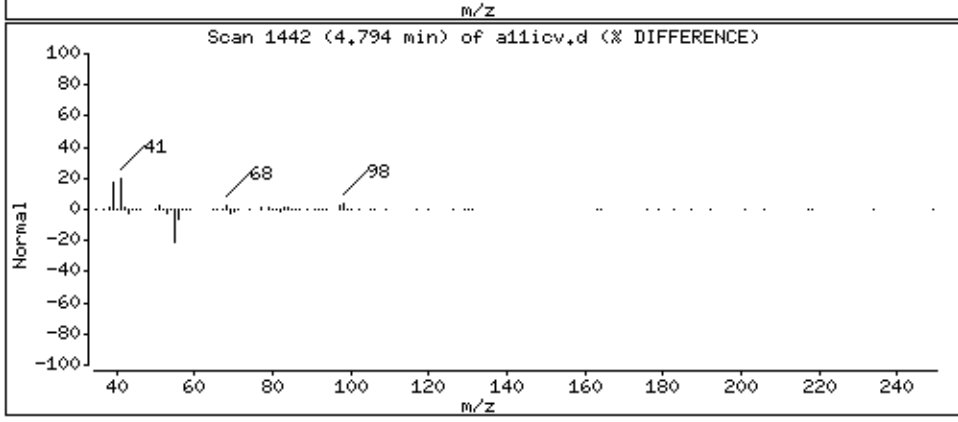
48 Methylcyclohexane

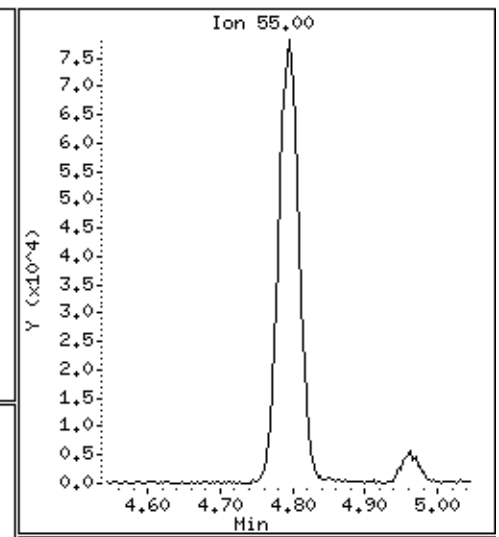
Concentration: 49.6 ppb

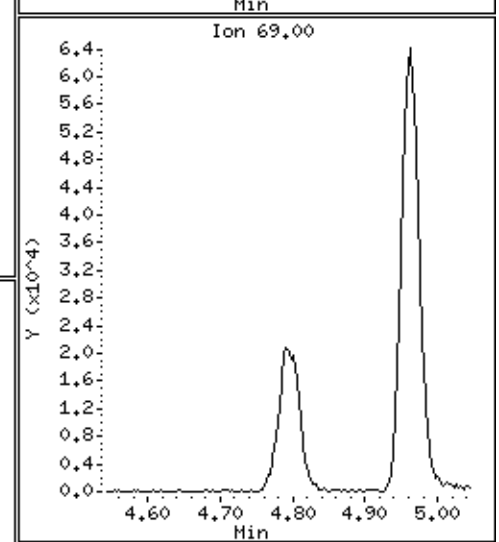


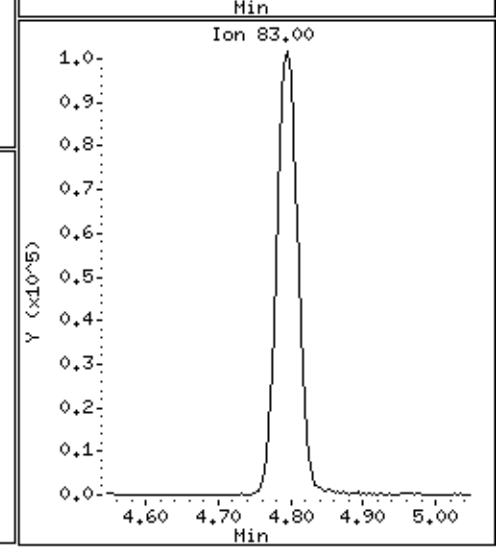












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

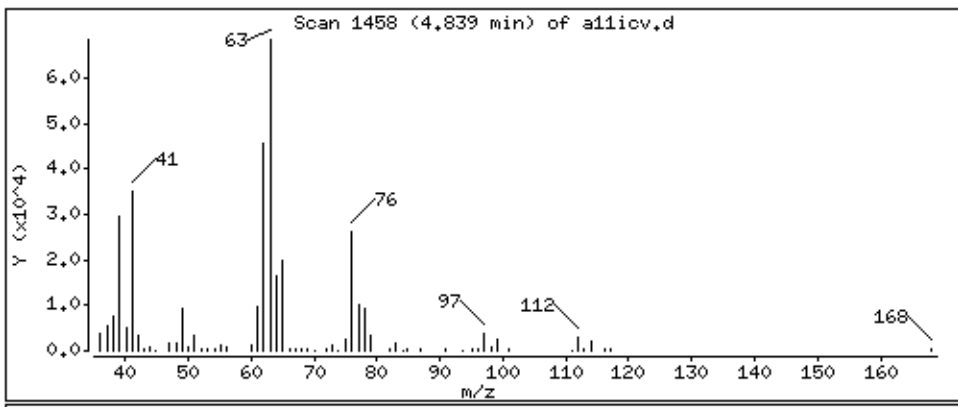
Operator: dae

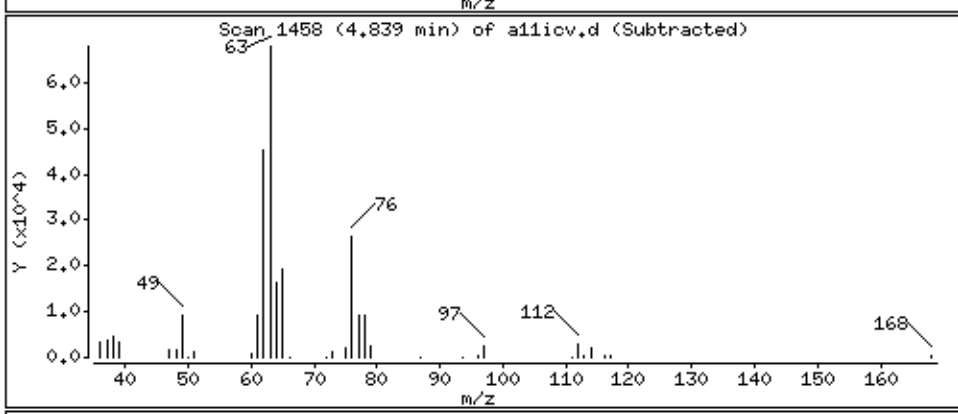
Column phase: DB-624

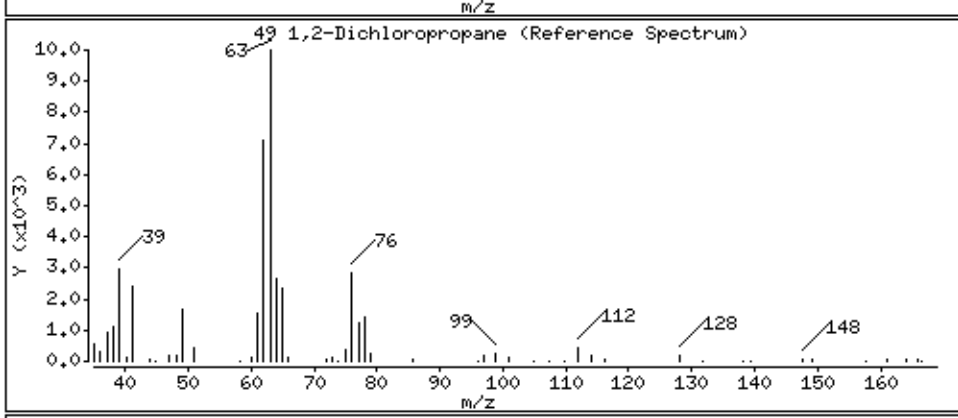
Column diameter: 0.18

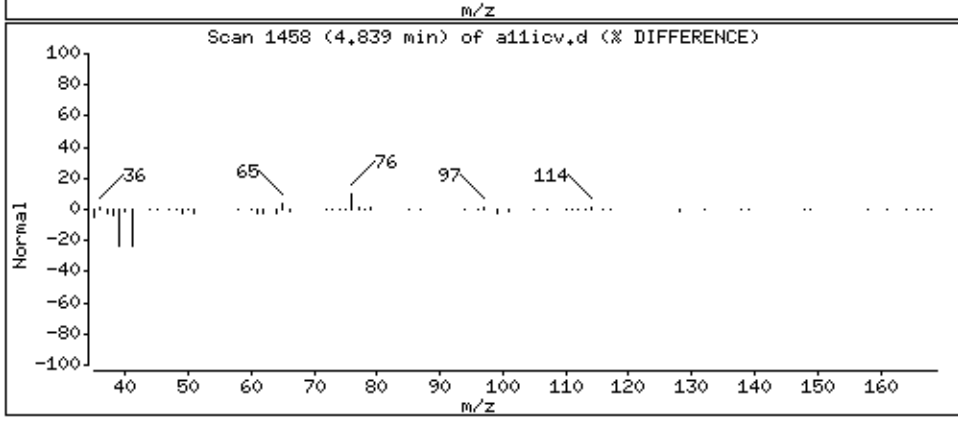
49 1,2-Dichloropropane

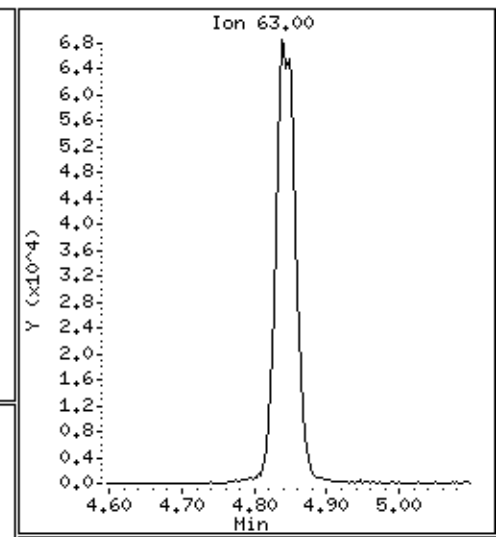
Concentration: 48.6 ppb

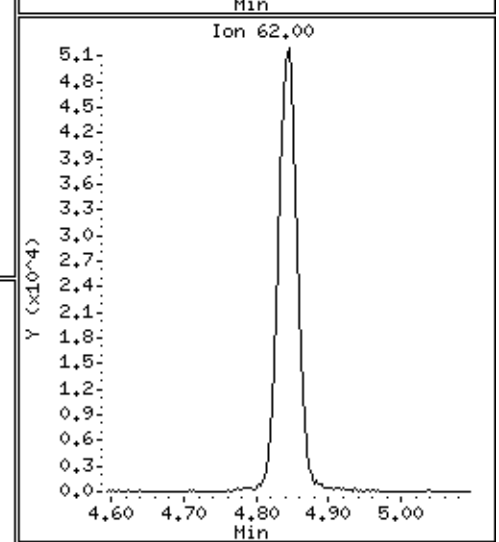


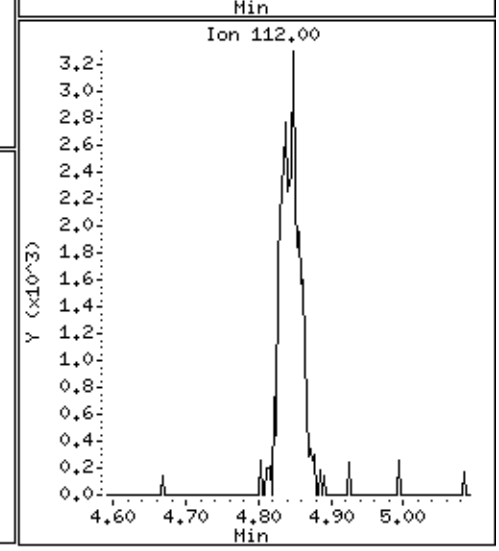












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

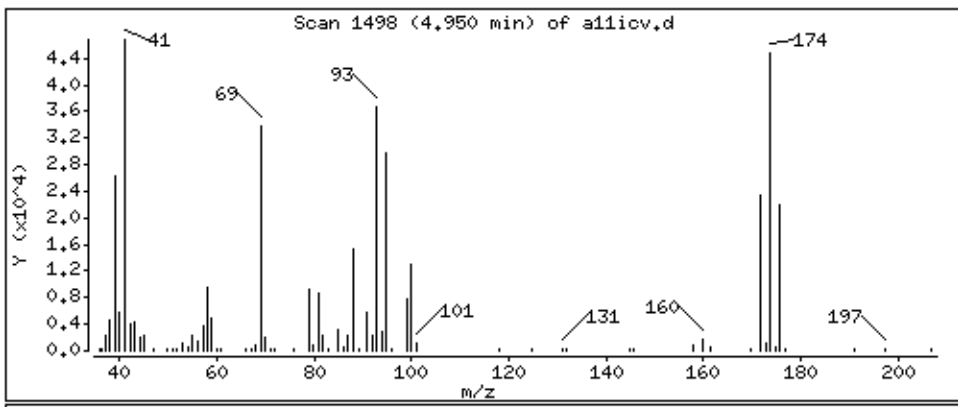
Operator: dae

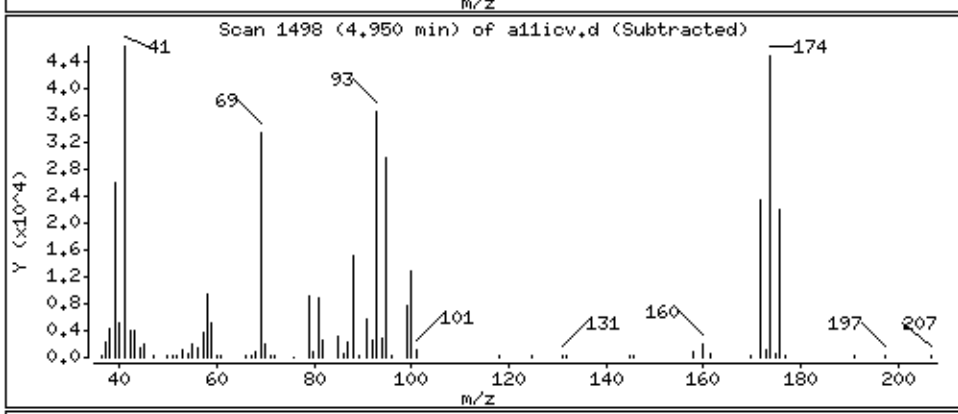
Column phase: DB-624

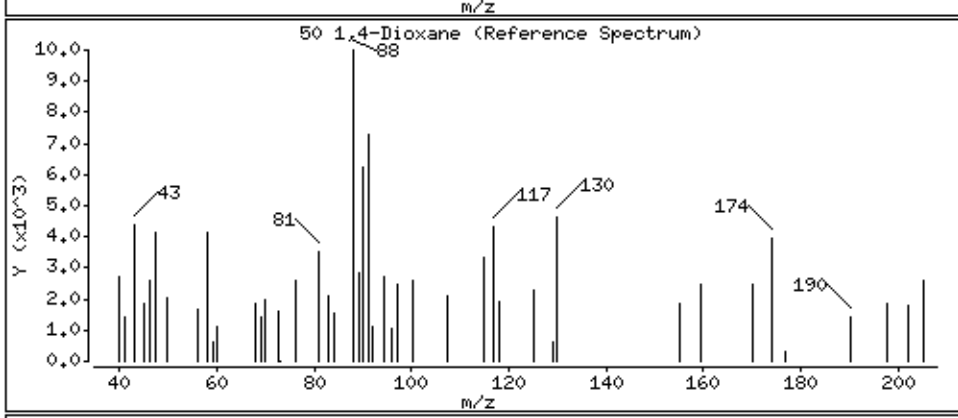
Column diameter: 0.18

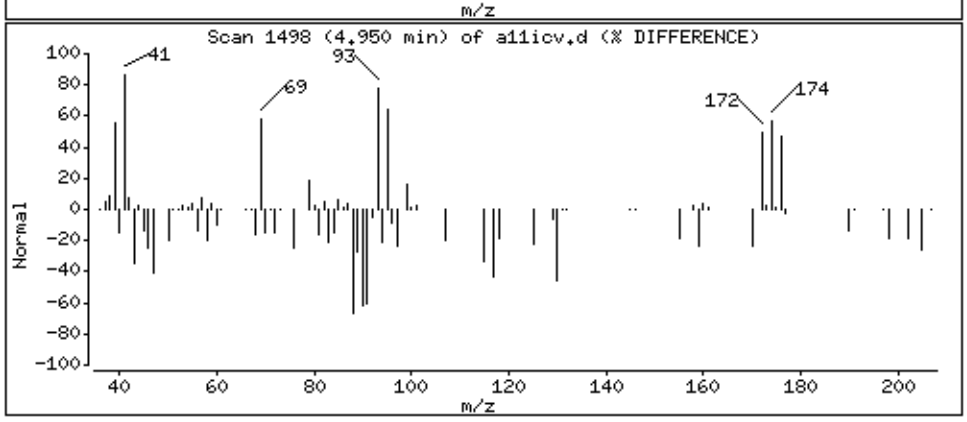
50 1,4-Dioxane

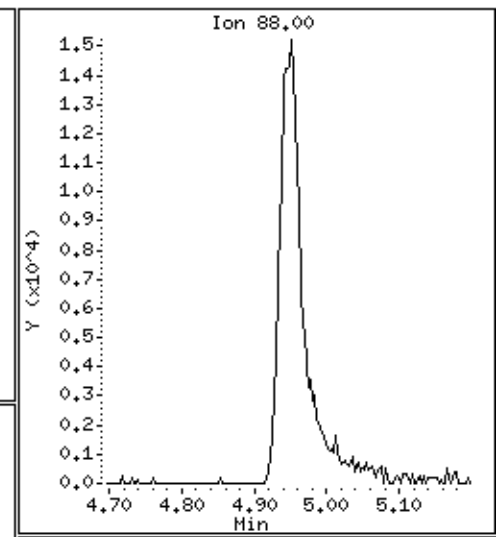
Concentration: 1100 ppb

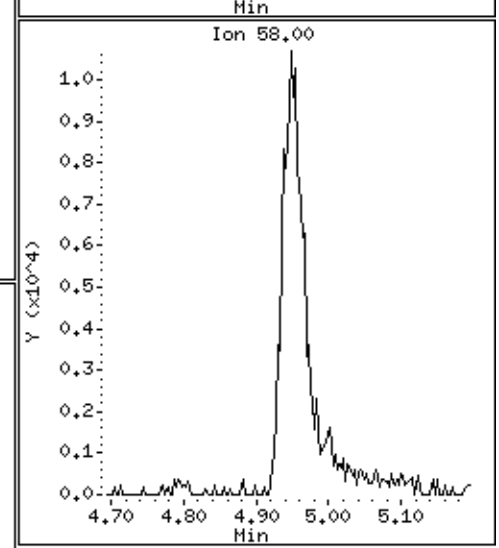












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

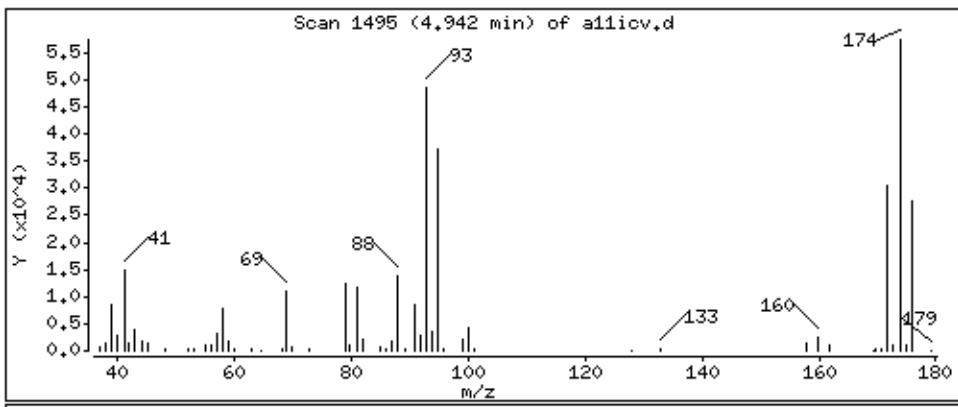
Operator: dae

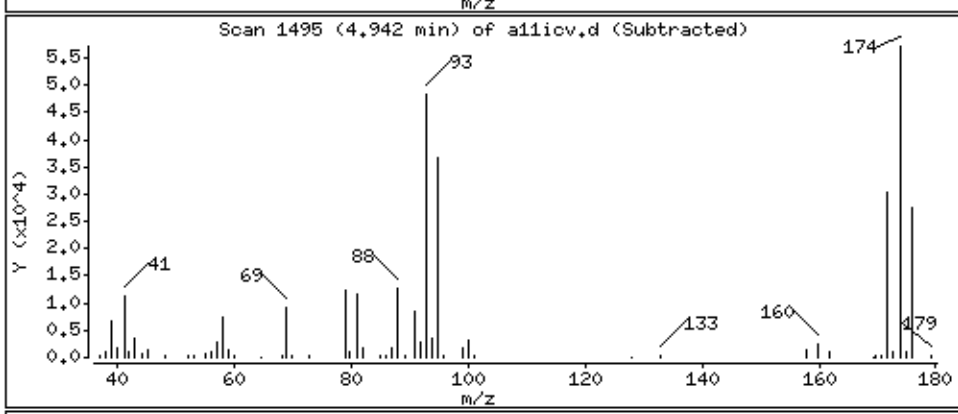
Column phase: DB-624

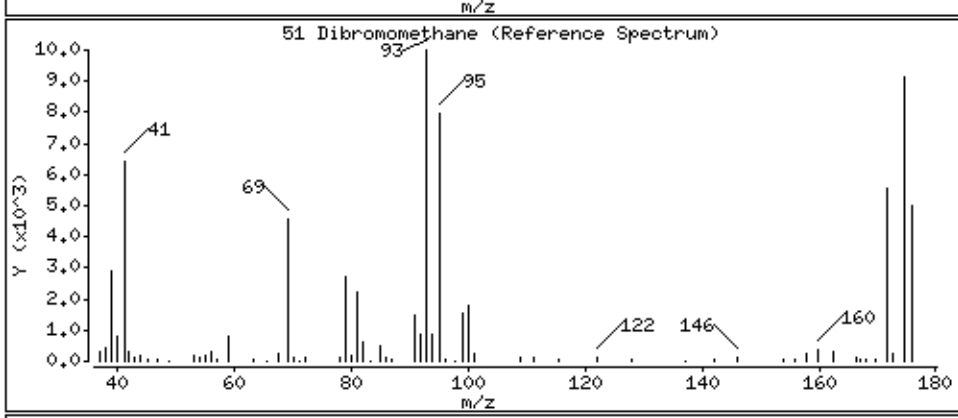
Column diameter: 0.18

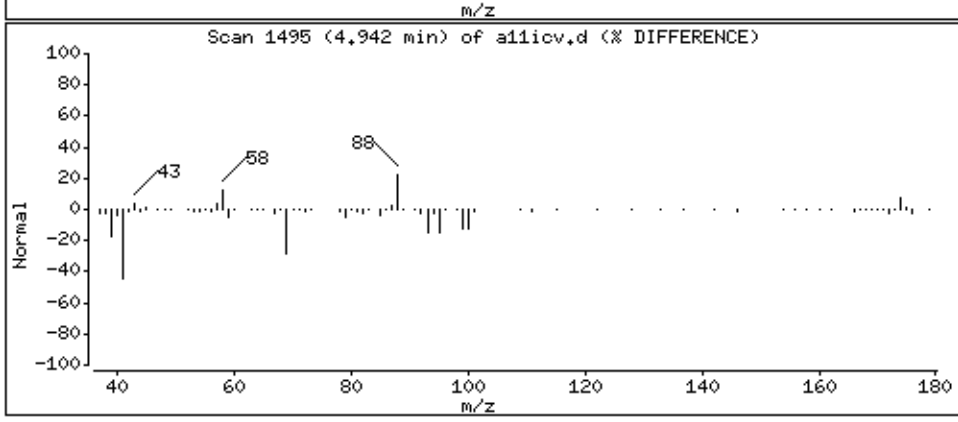
51 Dibromomethane

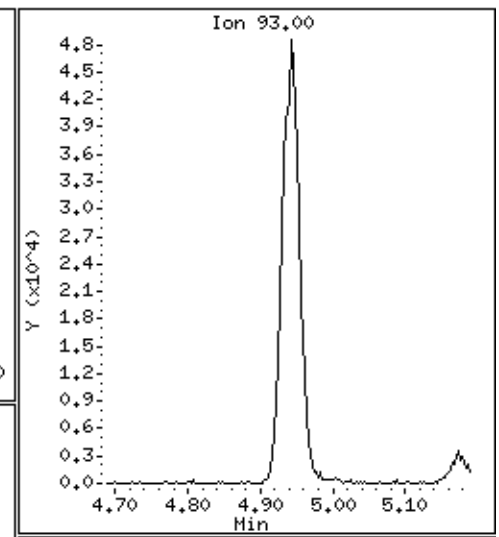
Concentration: 47.7 ppb

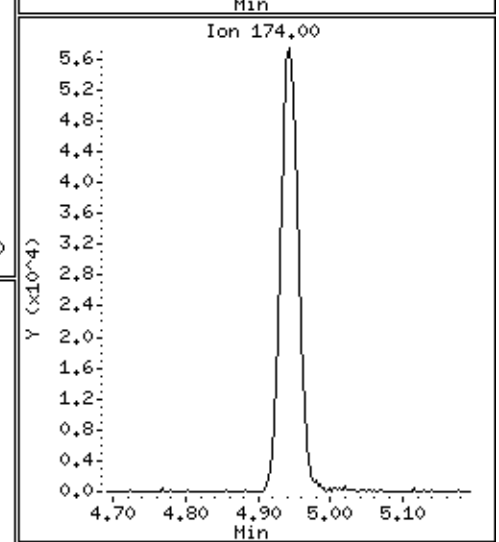


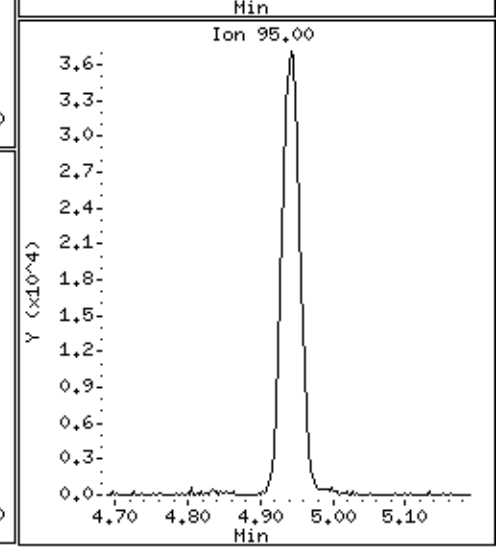












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

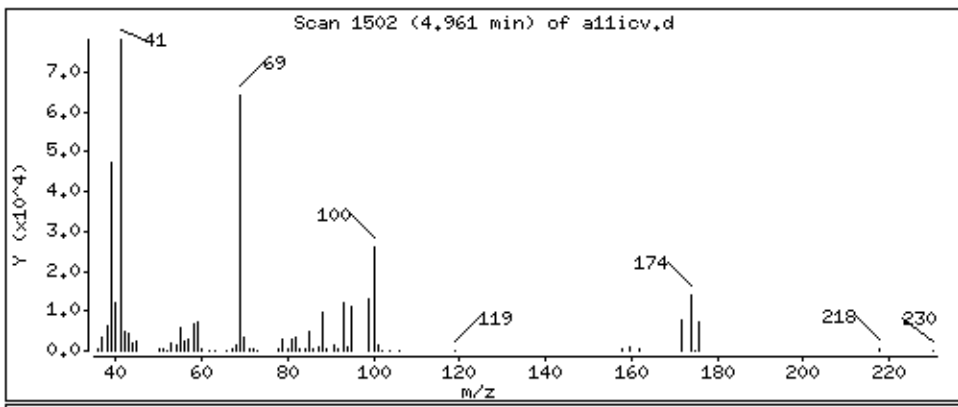
Operator: dae

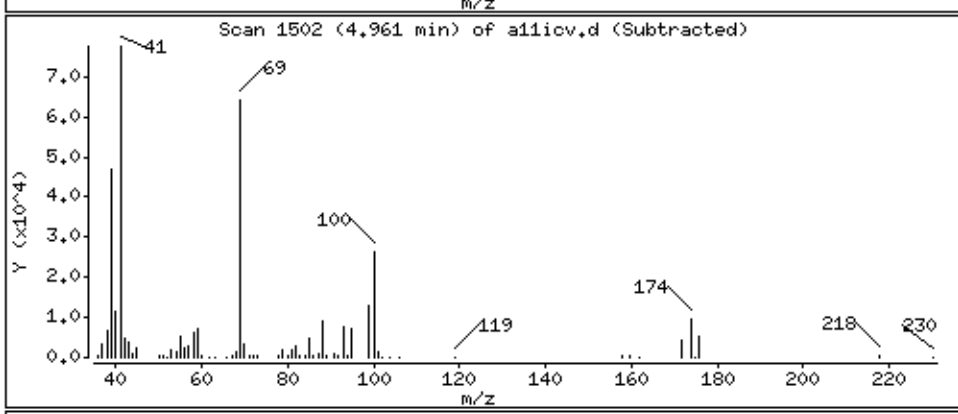
Column phase: DB-624

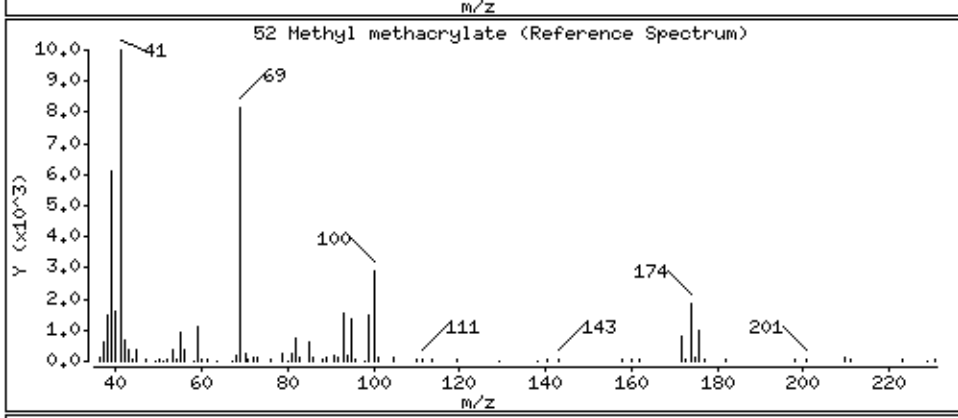
Column diameter: 0.18

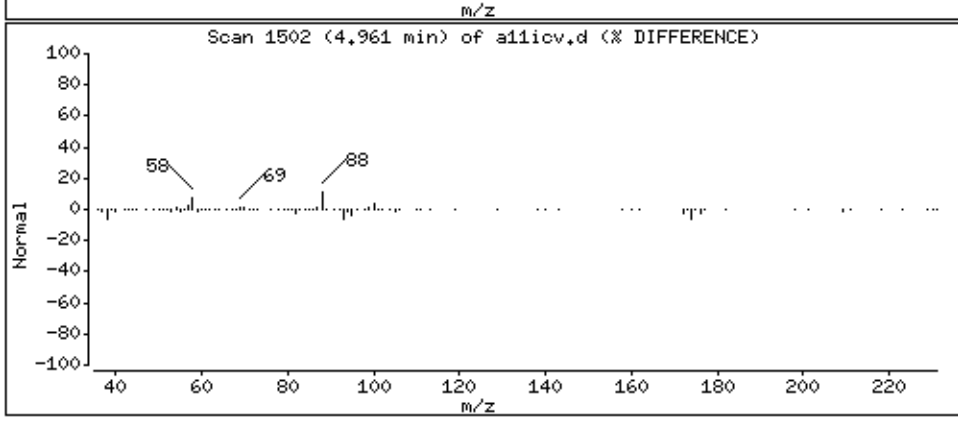
52 Methyl methacrylate

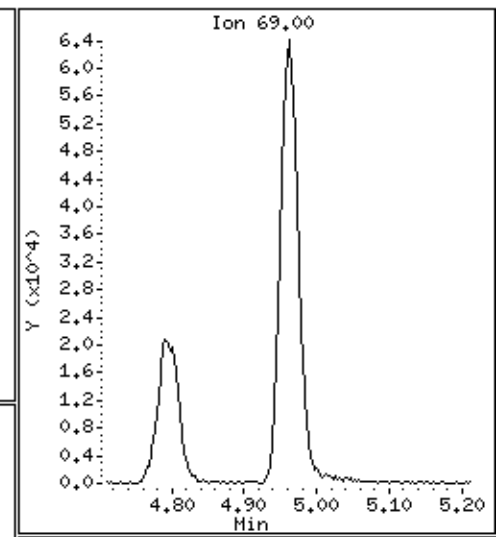
Concentration: 49.0 ppb

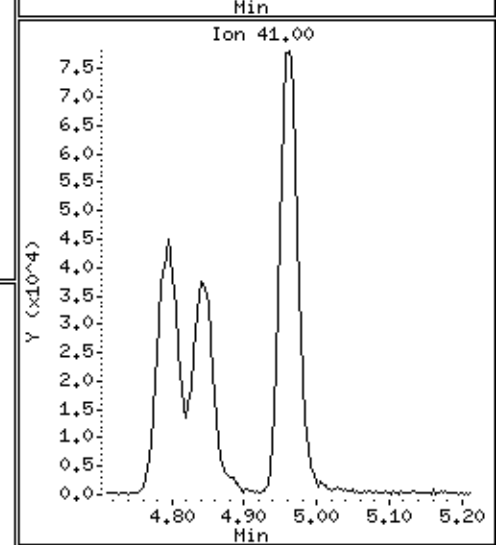


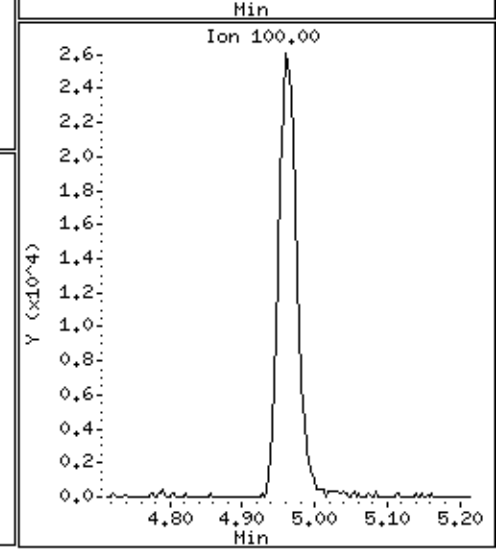












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

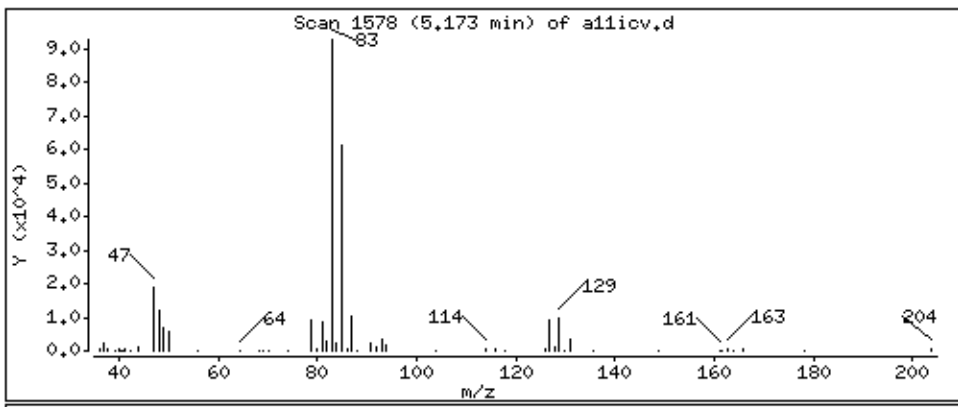
Operator: dae

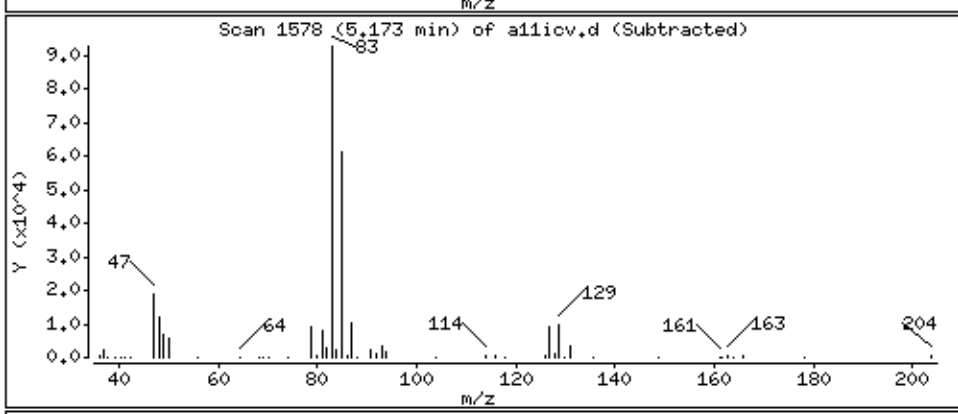
Column phase: DB-624

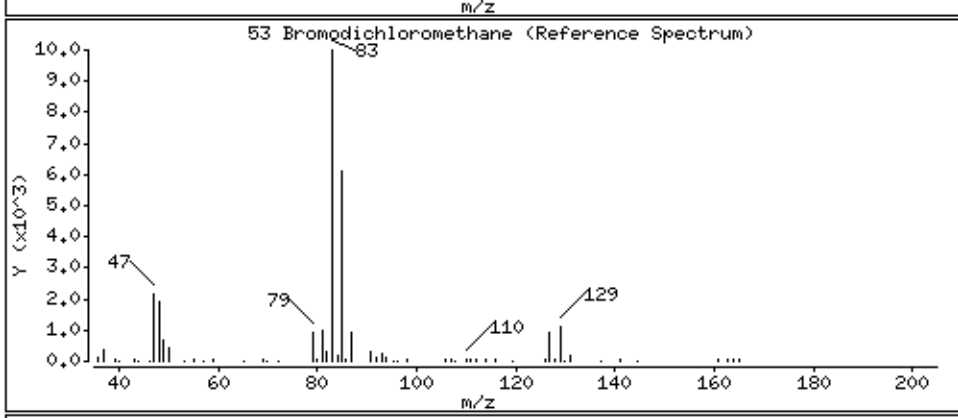
Column diameter: 0.18

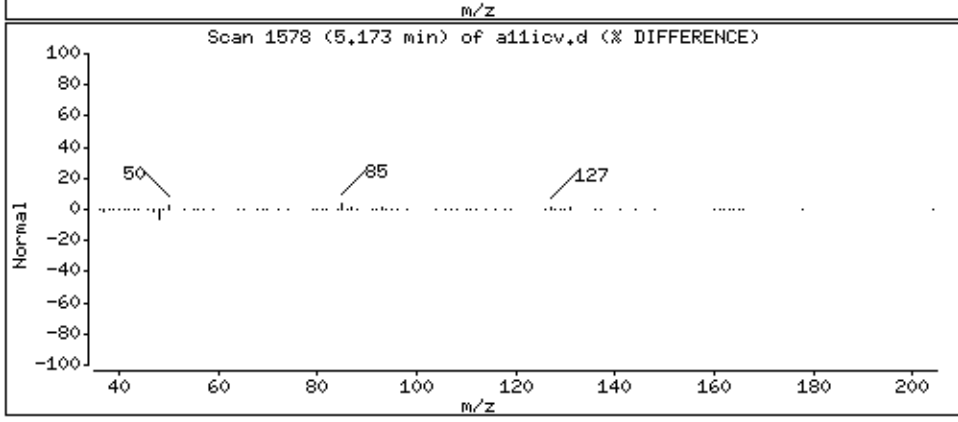
53 Bromodichloromethane

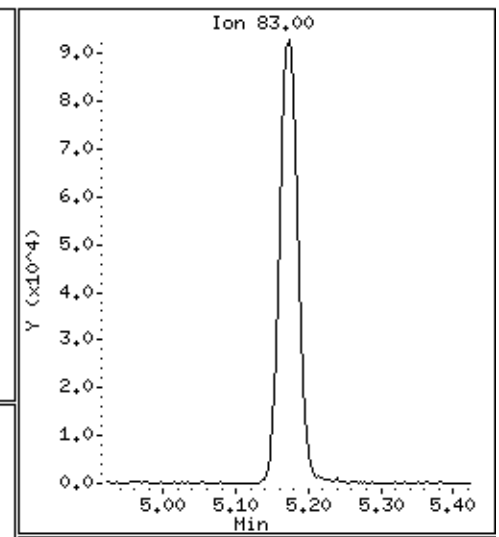
Concentration: 47.6 ppb

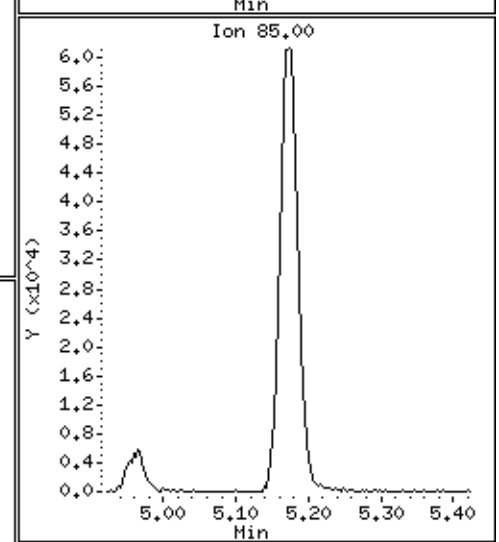


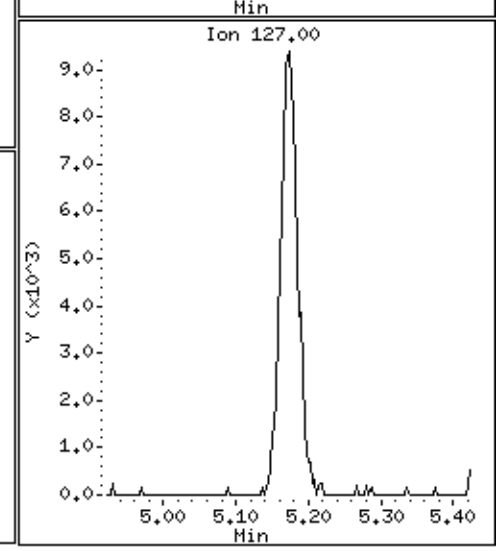












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

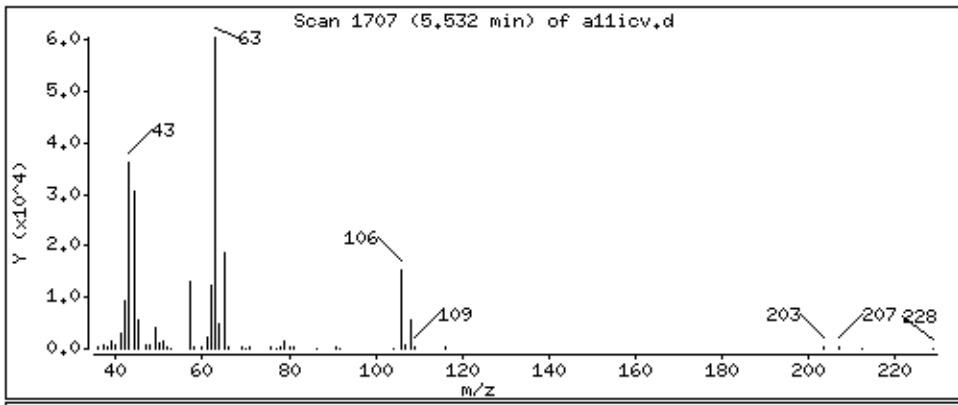
Operator: dae

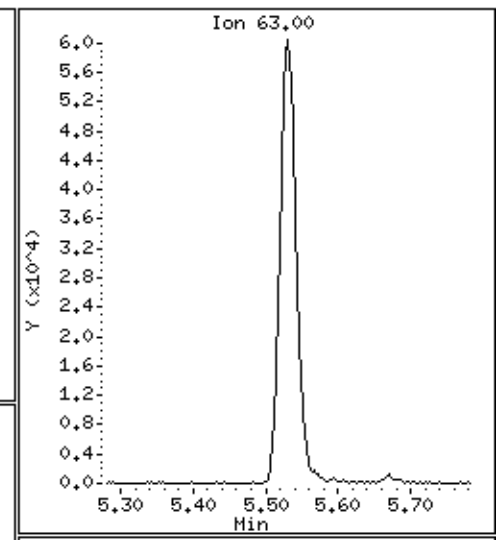
Column phase: DB-624

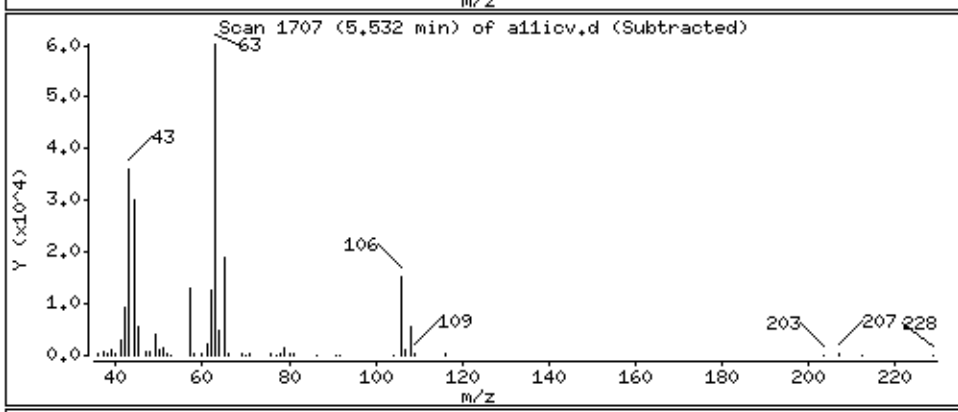
Column diameter: 0.18

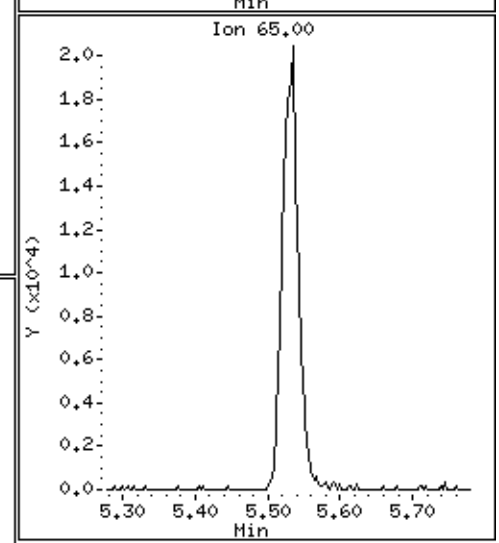
54 2-Chloroethyl vinyl ether

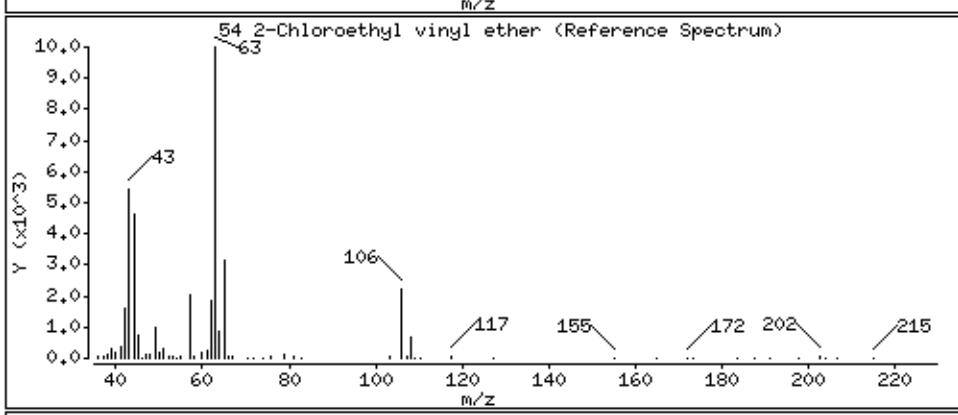
Concentration: 46.1 ppb

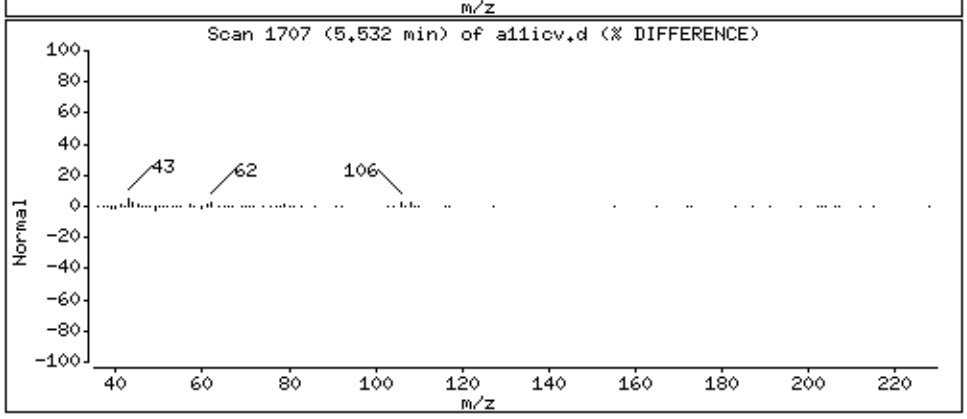












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

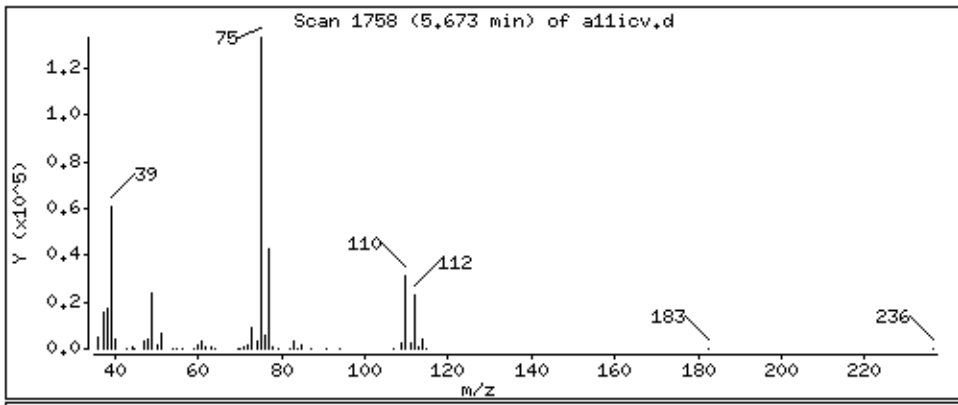
Operator: dae

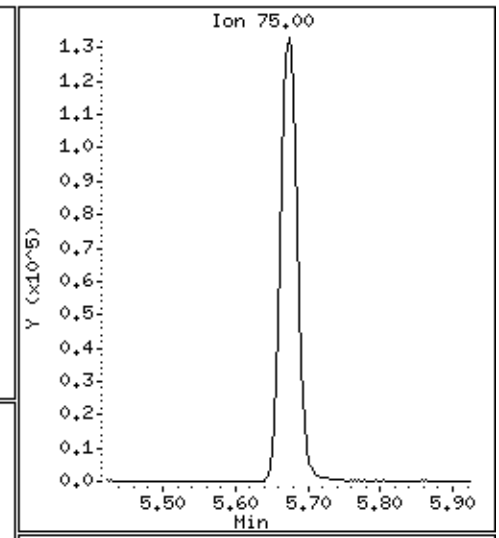
Column phase: DB-624

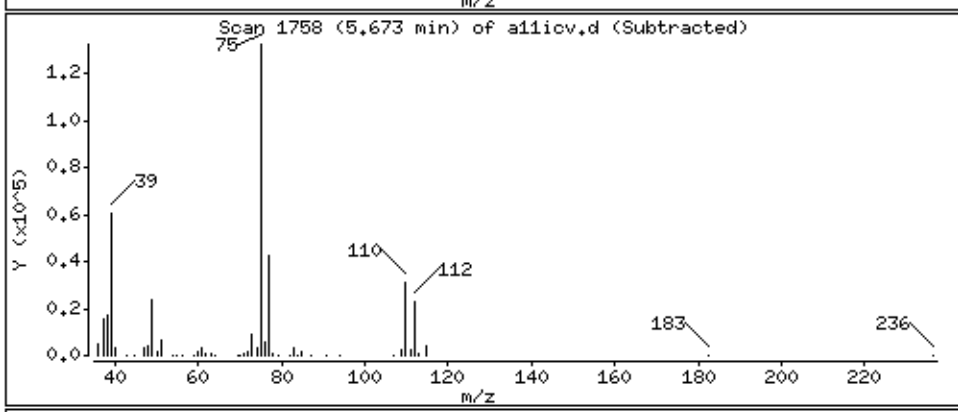
Column diameter: 0.18

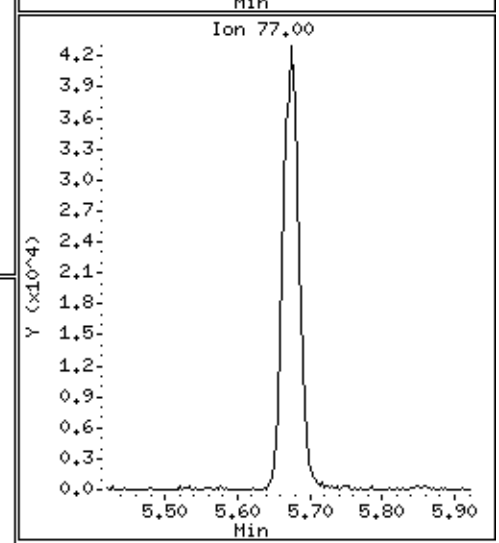
55 cis-1,3-Dichloropropene

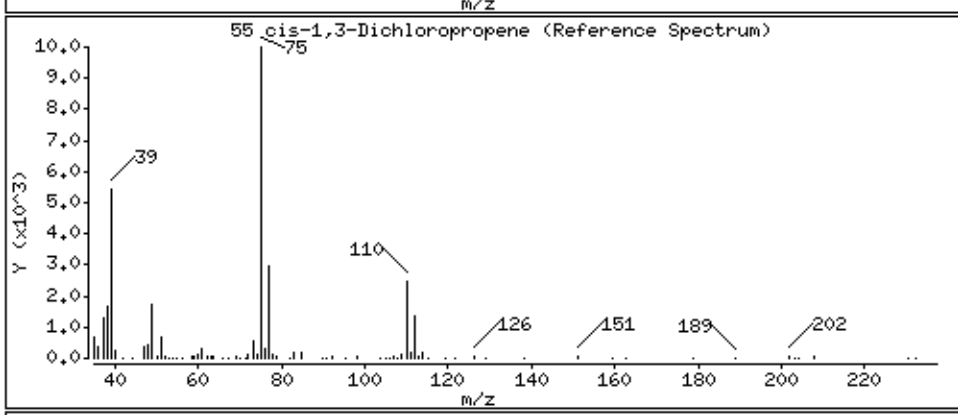
Concentration: 48.6 ppb

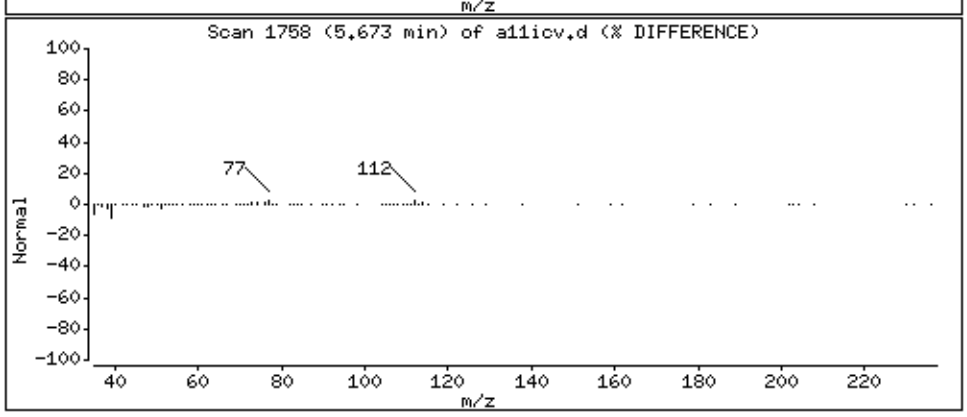












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

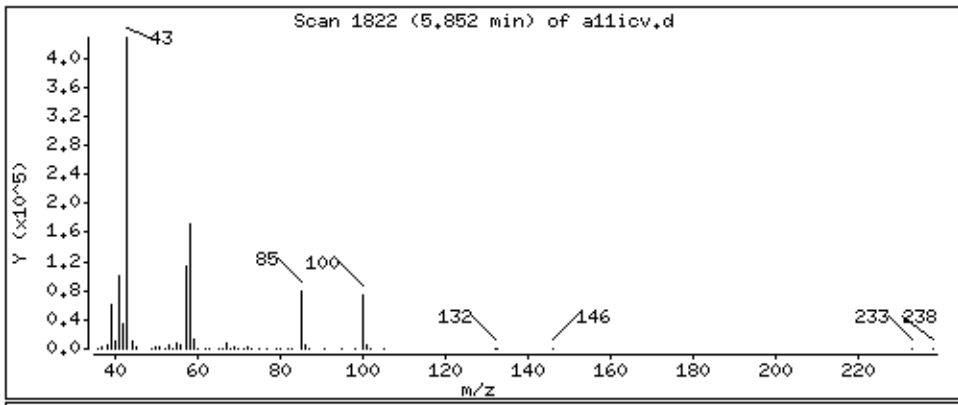
Operator: dae

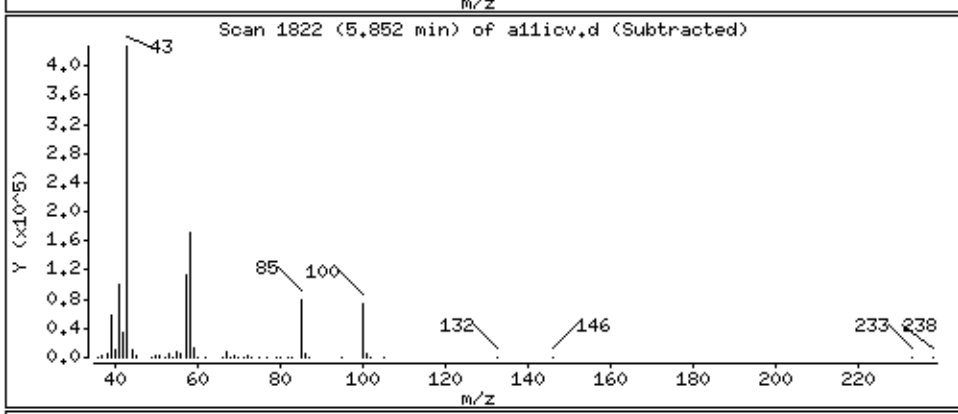
Column phase: DB-624

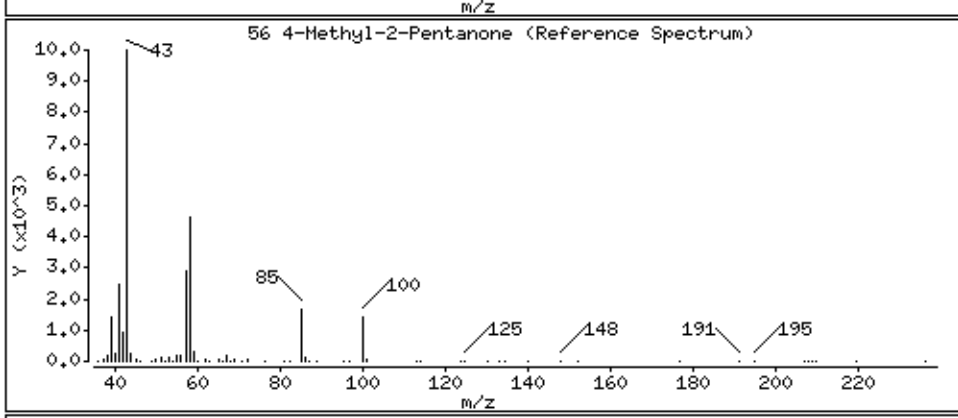
Column diameter: 0.18

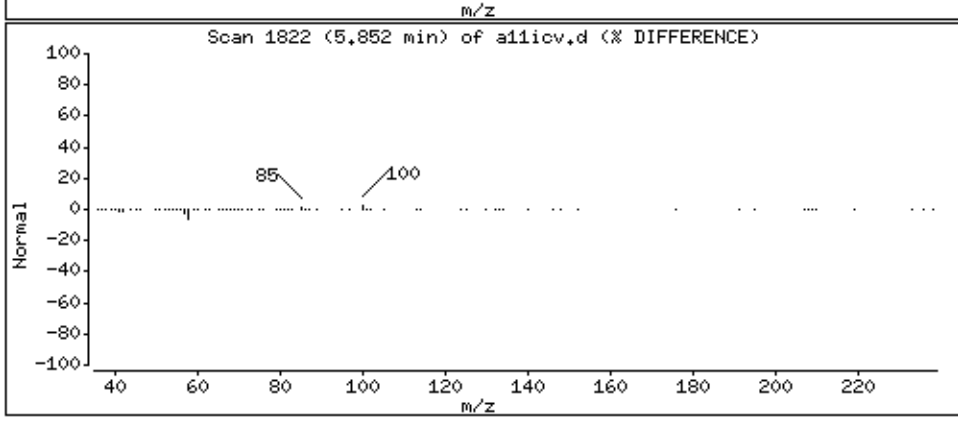
56 4-Methyl-2-Pentanone

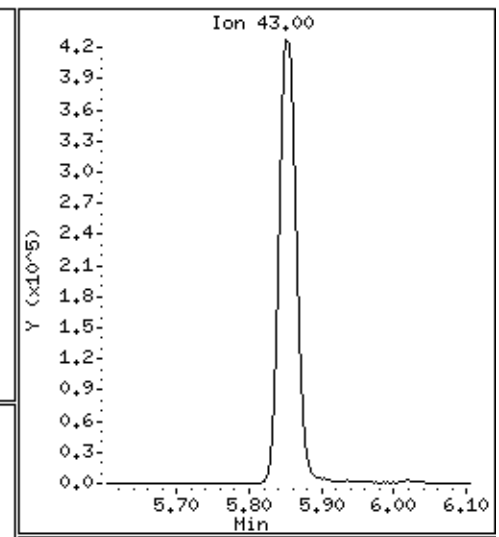
Concentration: 238 ppb

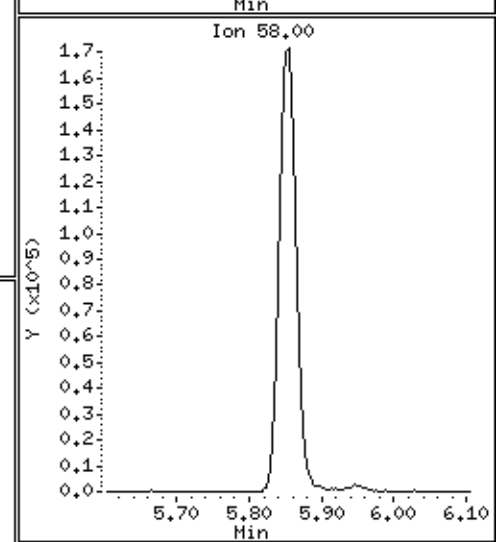


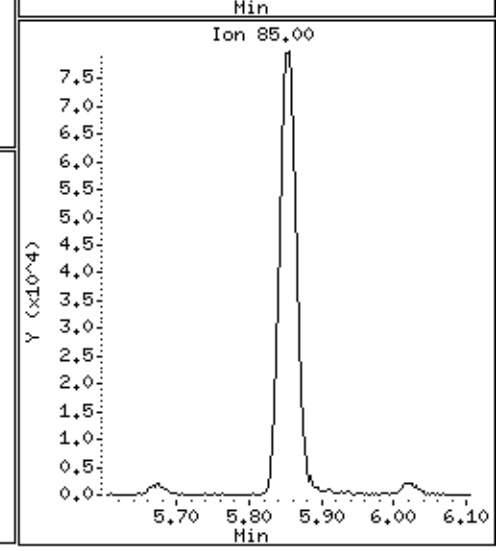












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

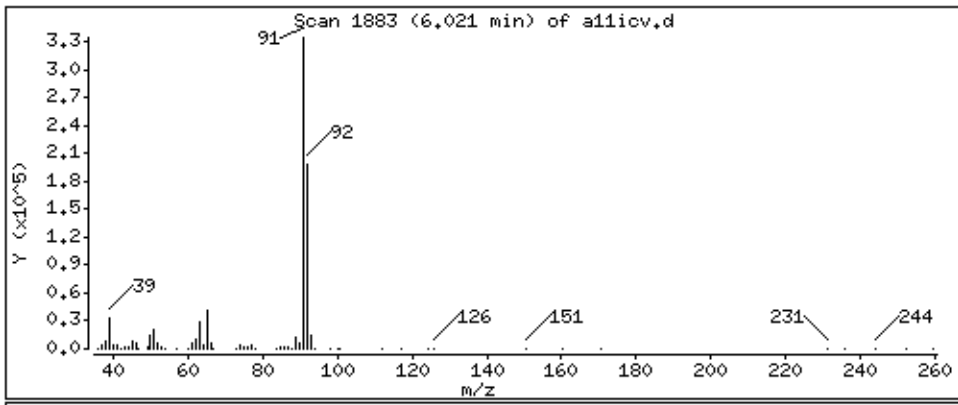
Operator: dae

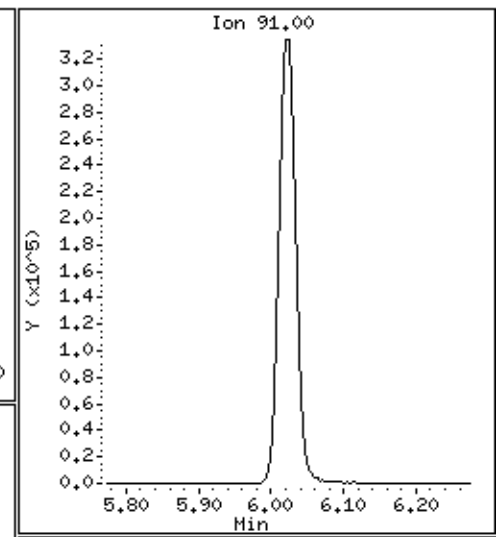
Column phase: DB-624

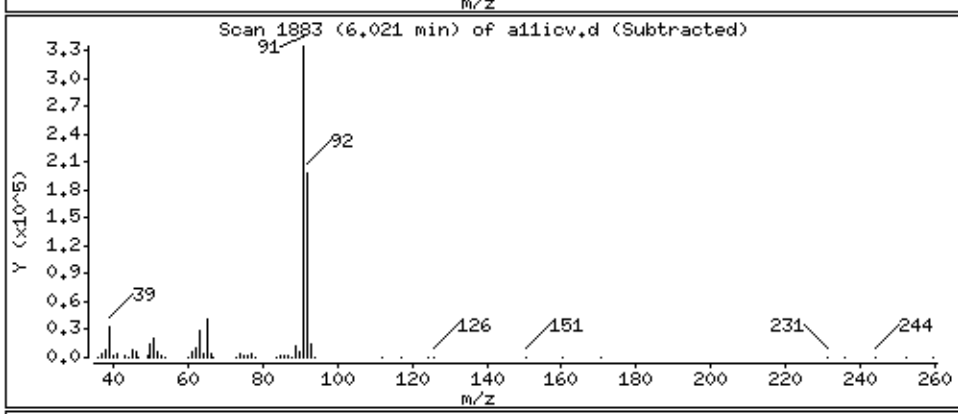
Column diameter: 0.18

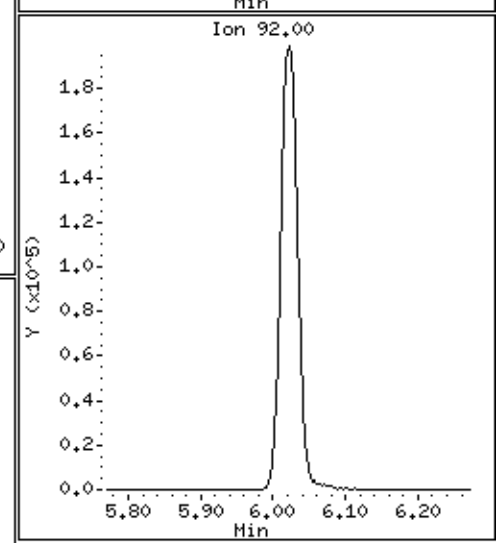
58 Toluene

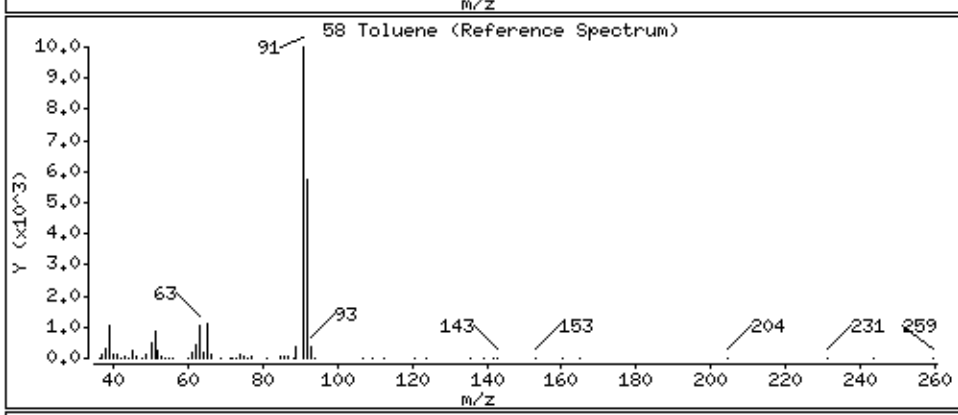
Concentration: 48.5 ppb

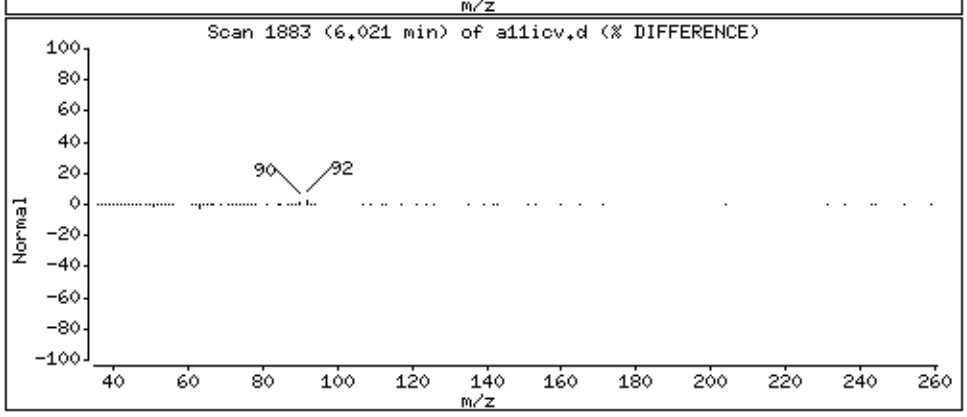












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

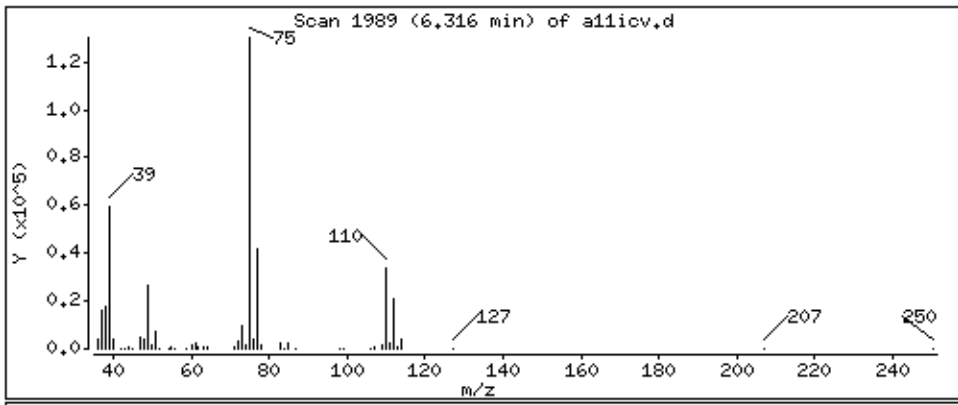
Operator: dae

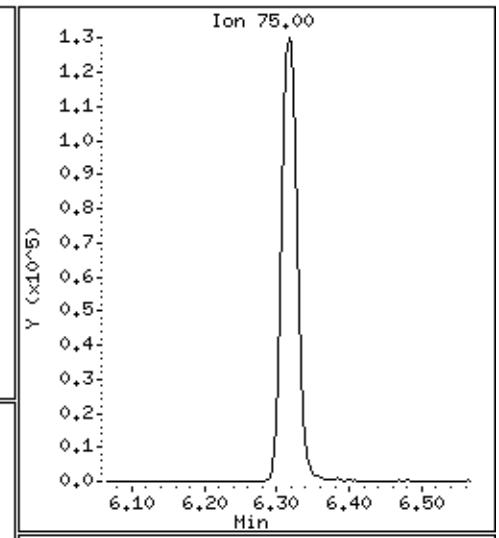
Column phase: DB-624

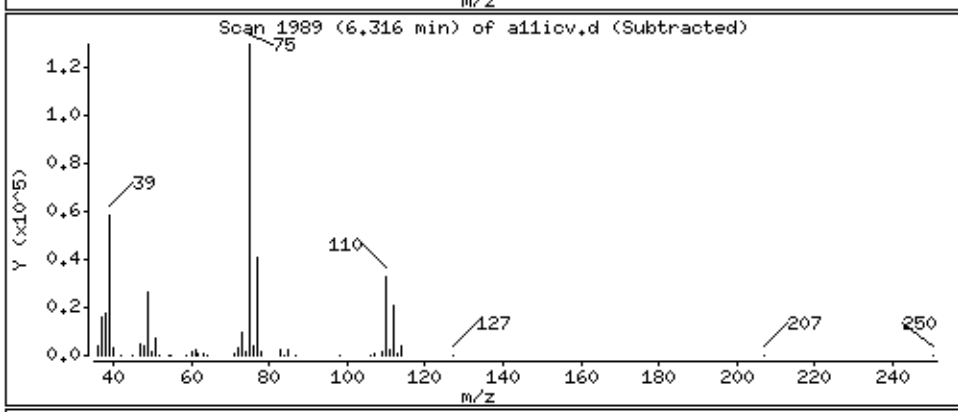
Column diameter: 0.18

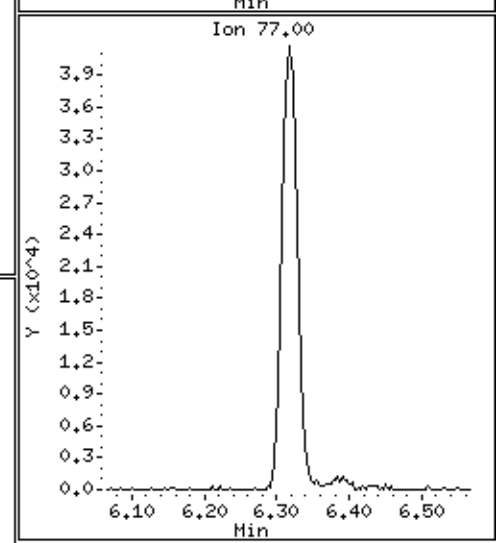
59 trans-1,3-Dichloropropene

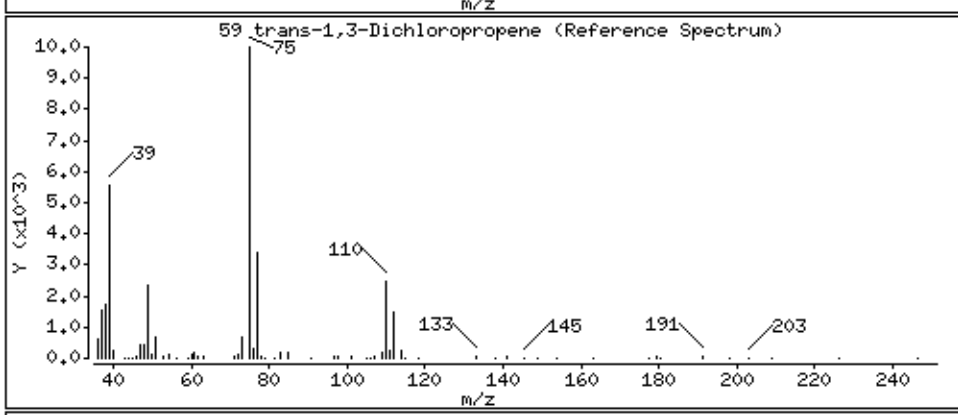
Concentration: 48.8 ppb

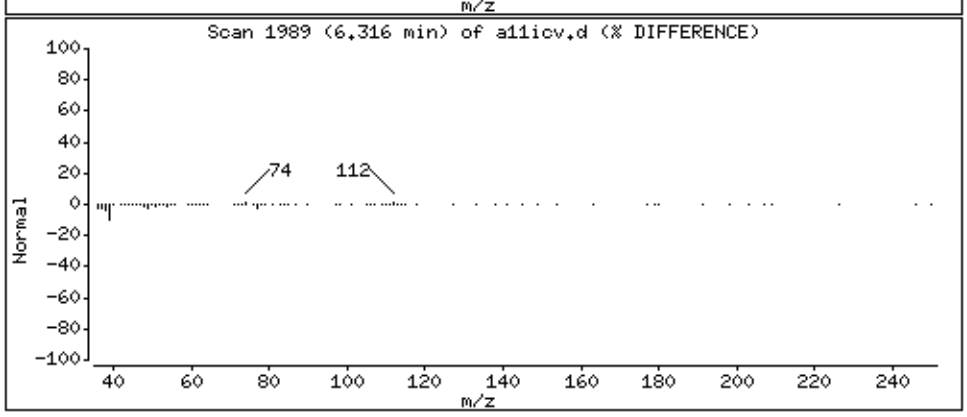












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

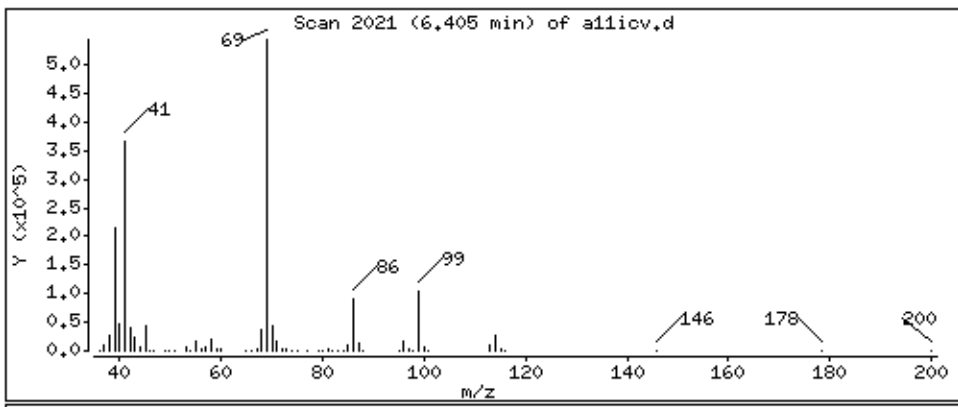
Operator: dae

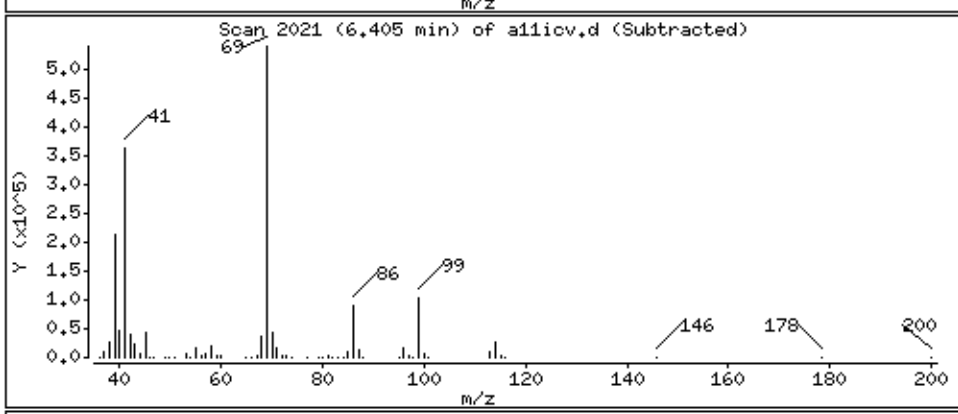
Column phase: DB-624

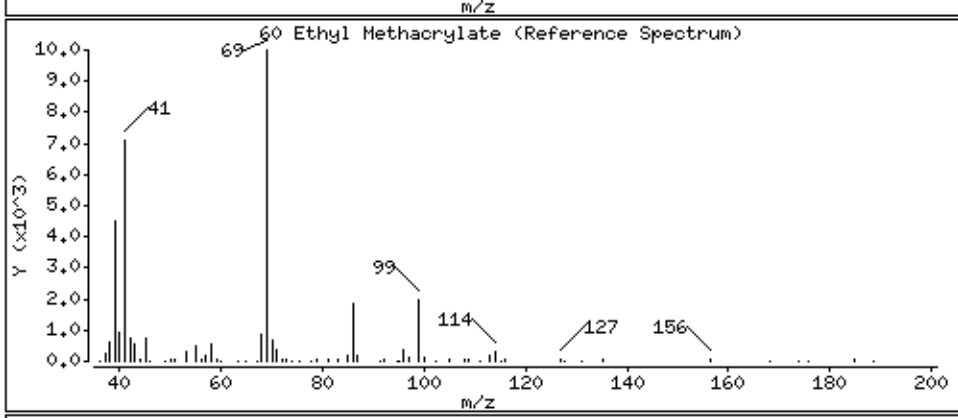
Column diameter: 0.18

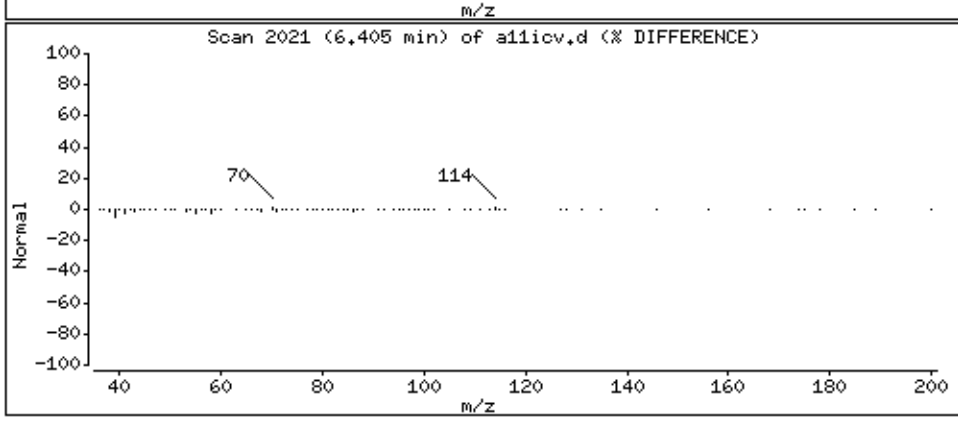
60 Ethyl Methacrylate

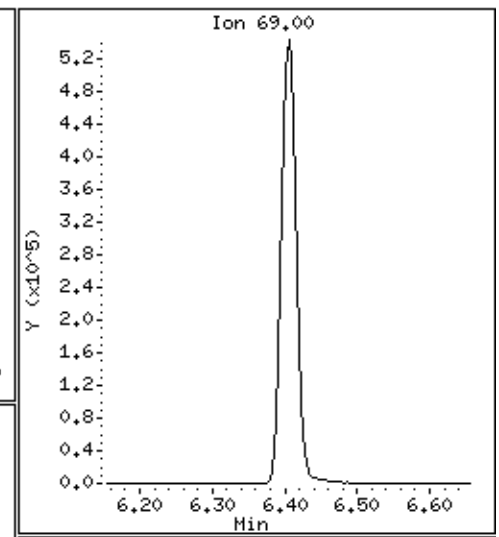
Concentration: 190 ppb

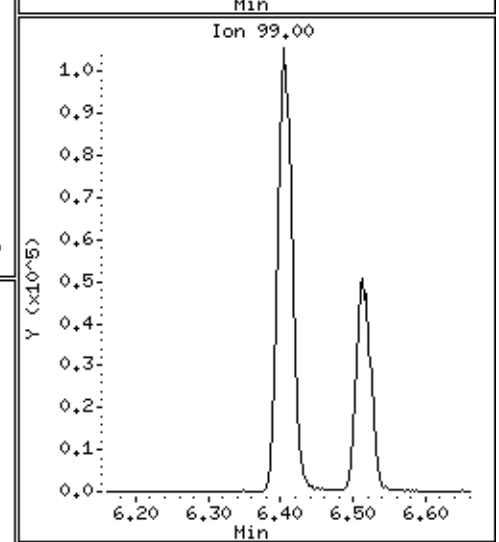


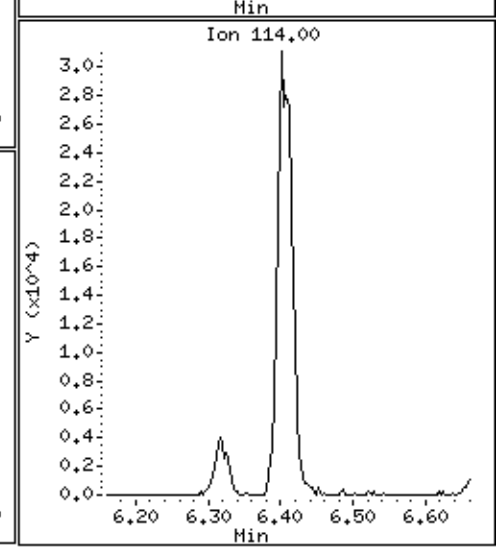












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

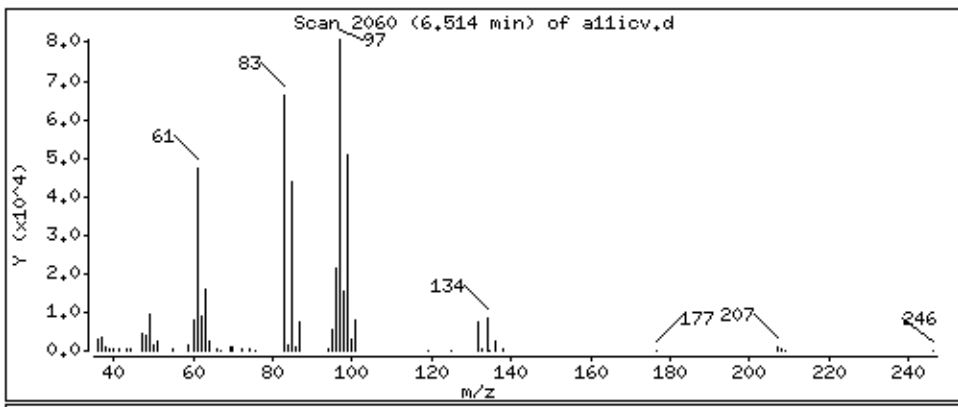
Operator: dae

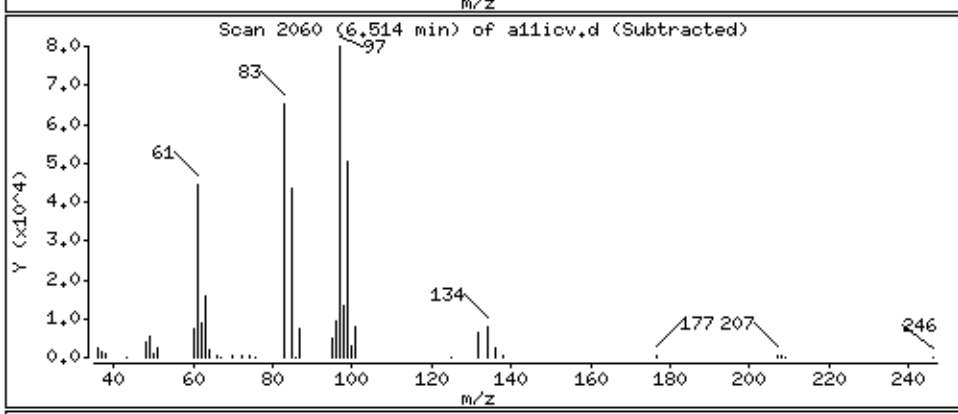
Column phase: DB-624

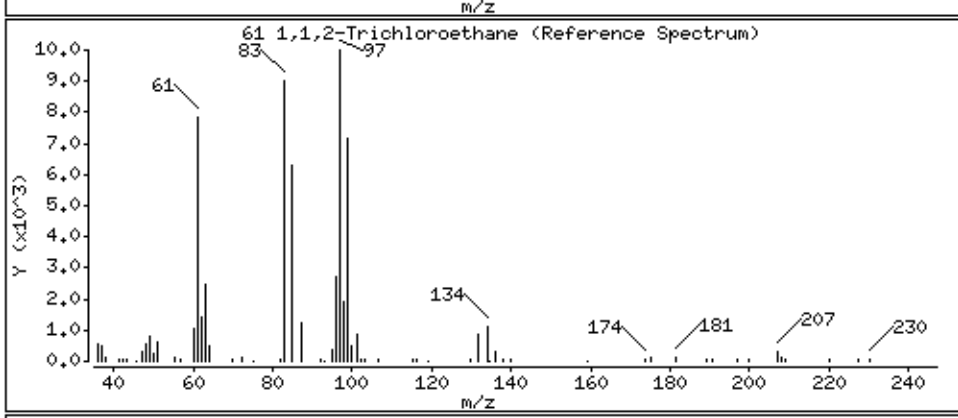
Column diameter: 0.18

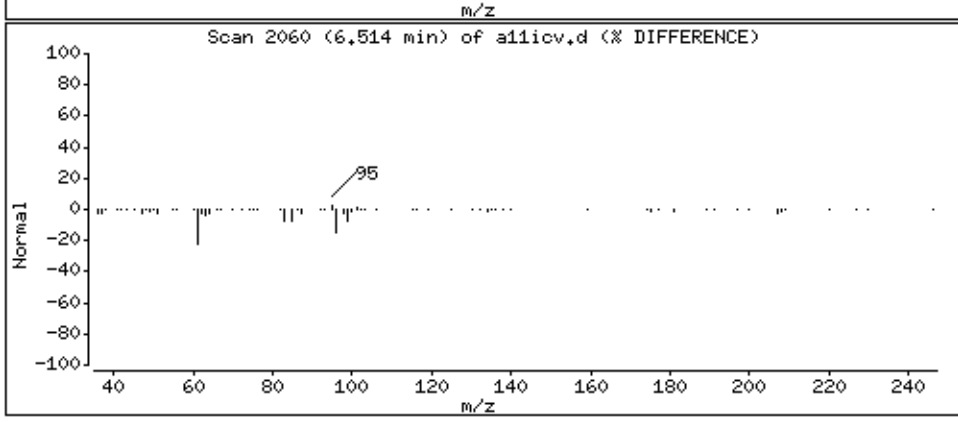
61 1,1,2-Trichloroethane

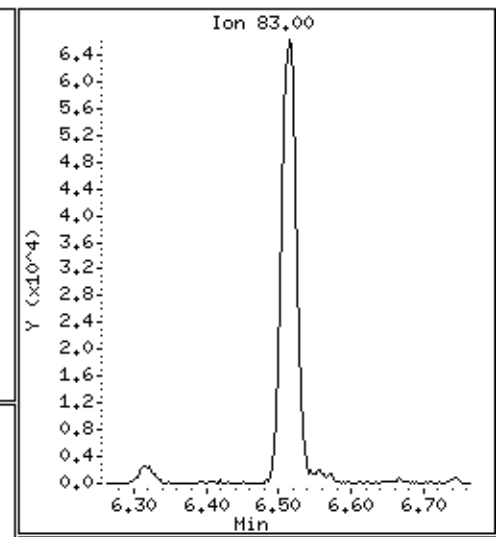
Concentration: 46.9 ppb

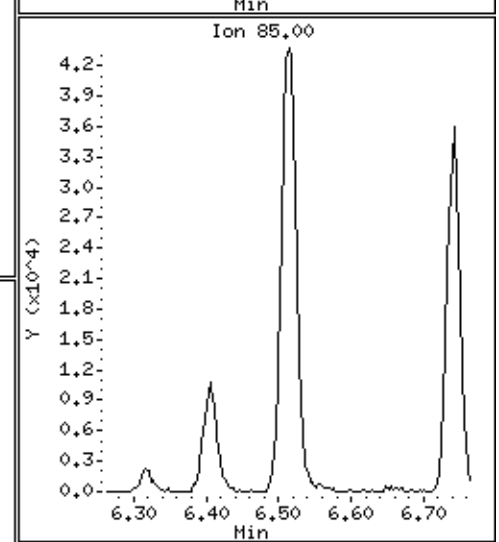


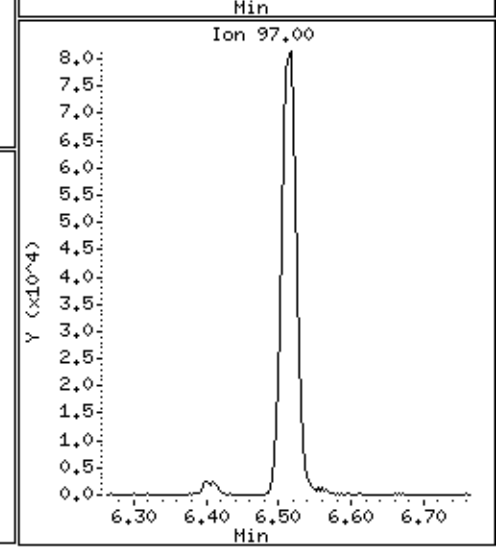












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

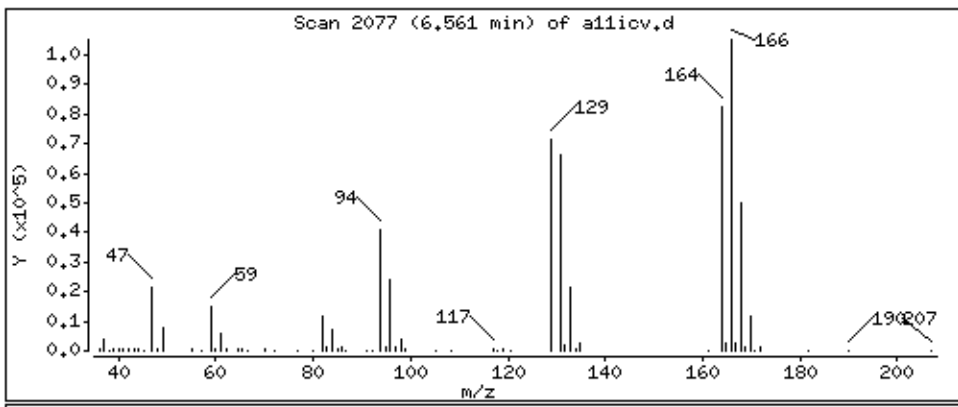
Operator: dae

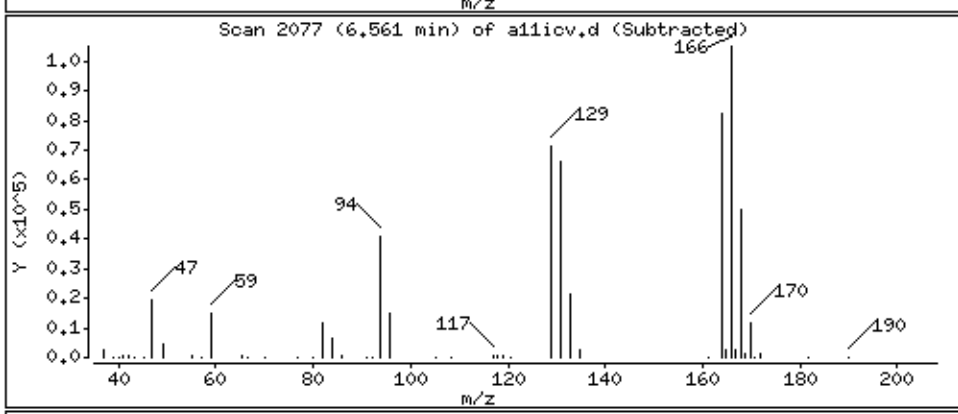
Column phase: DB-624

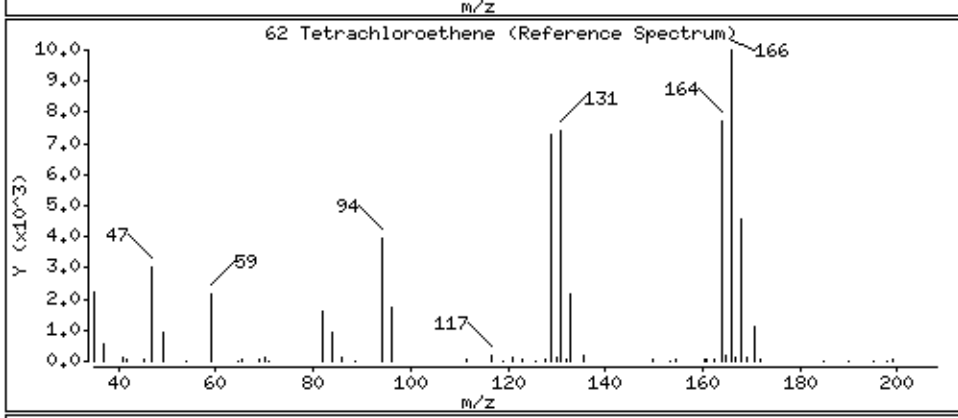
Column diameter: 0.18

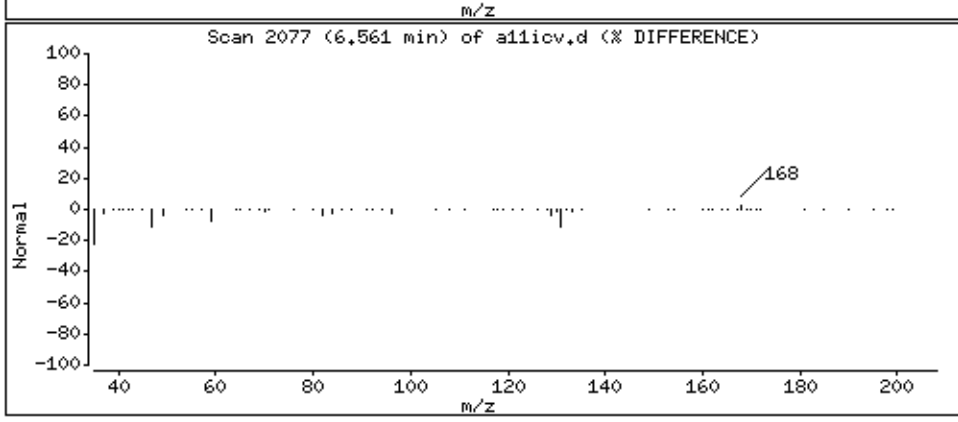
62 Tetrachloroethene

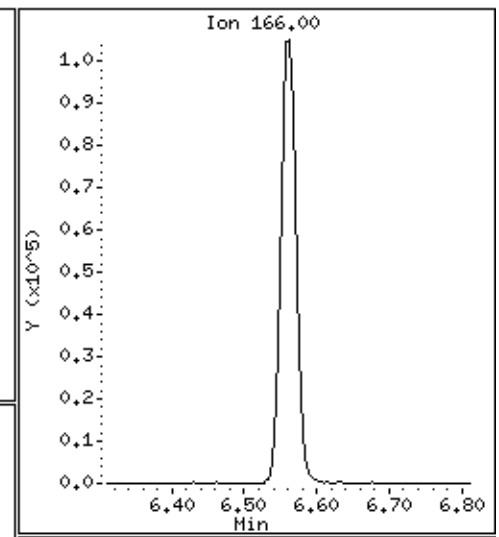
Concentration: 43.8 ppb

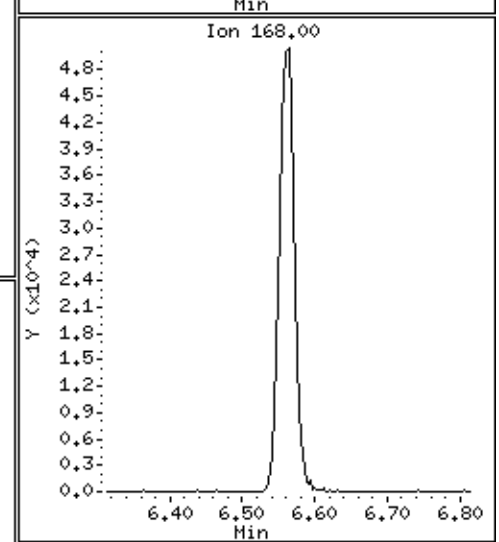


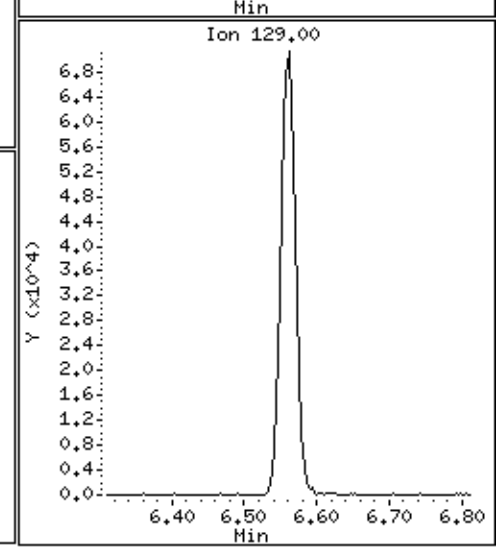












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

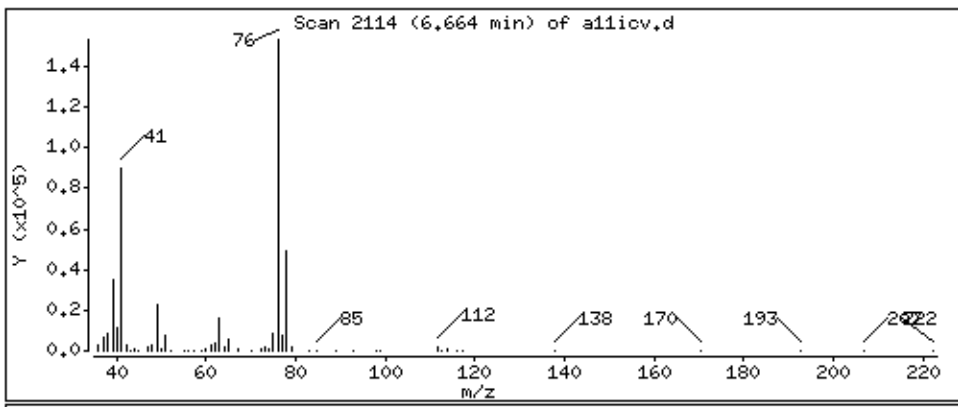
Operator: dae

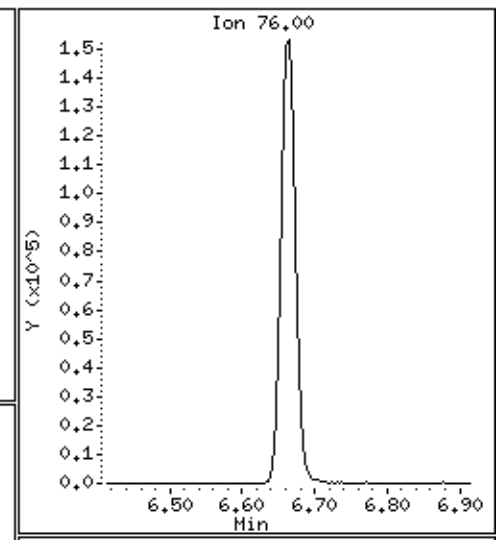
Column phase: DB-624

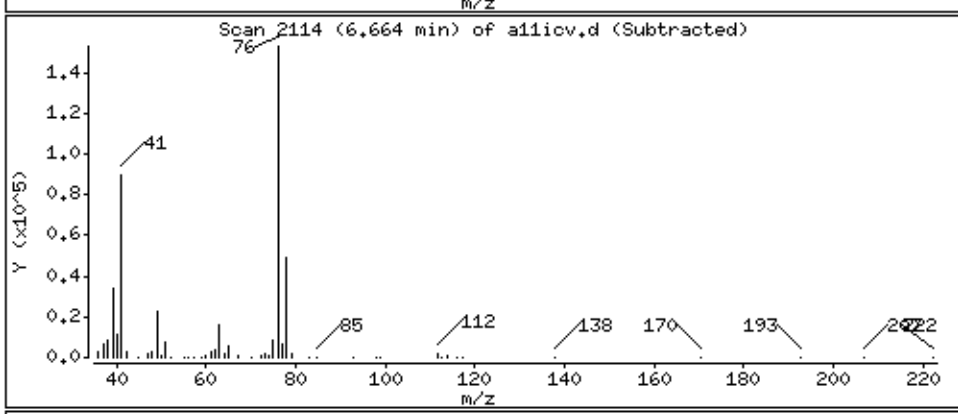
Column diameter: 0.18

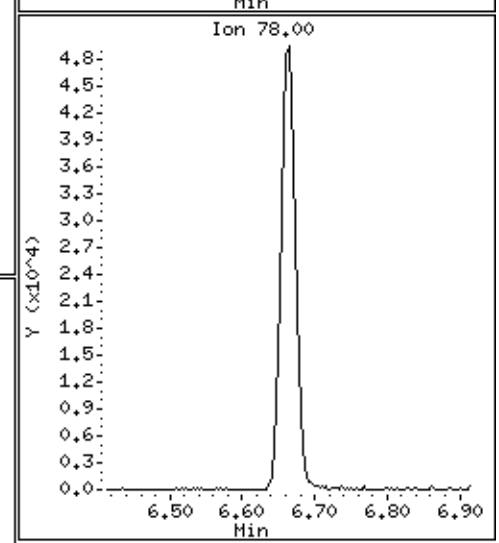
63 1,3-Dichloropropane

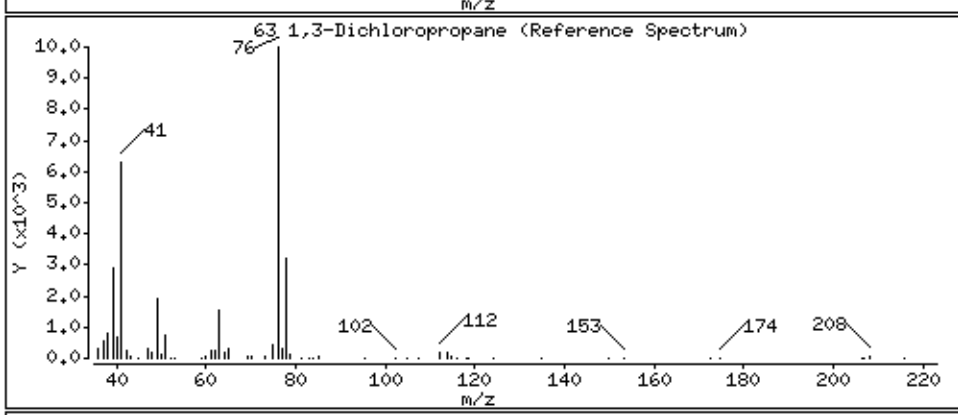
Concentration: 49.1 ppb

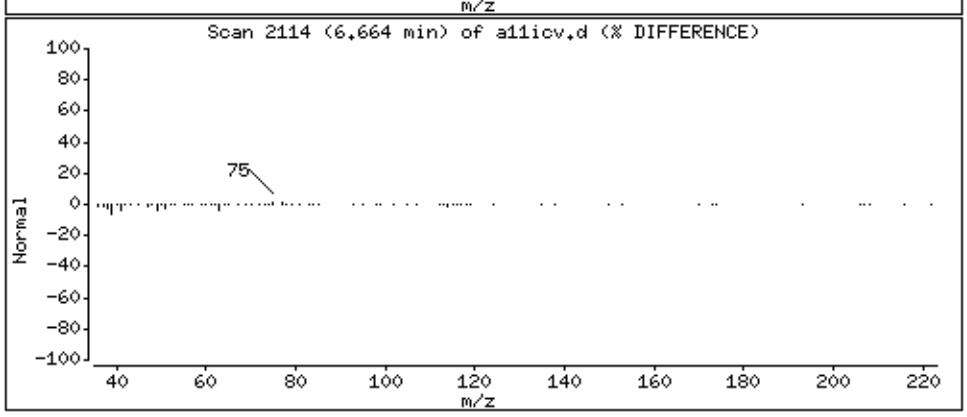












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

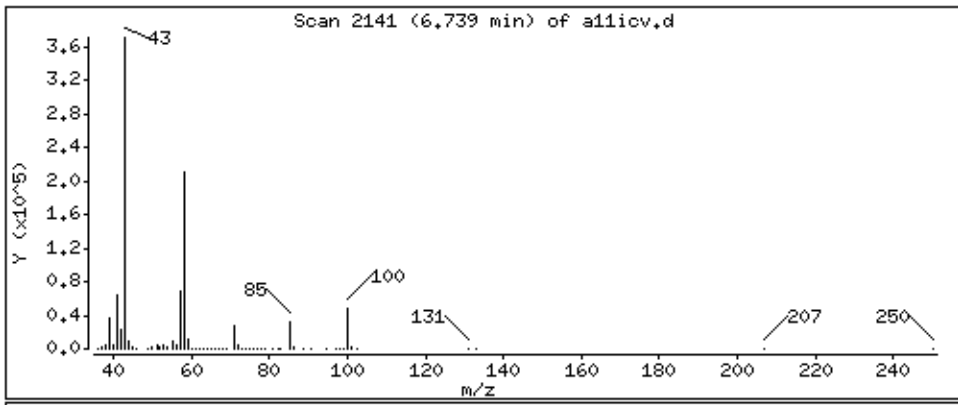
Operator: dae

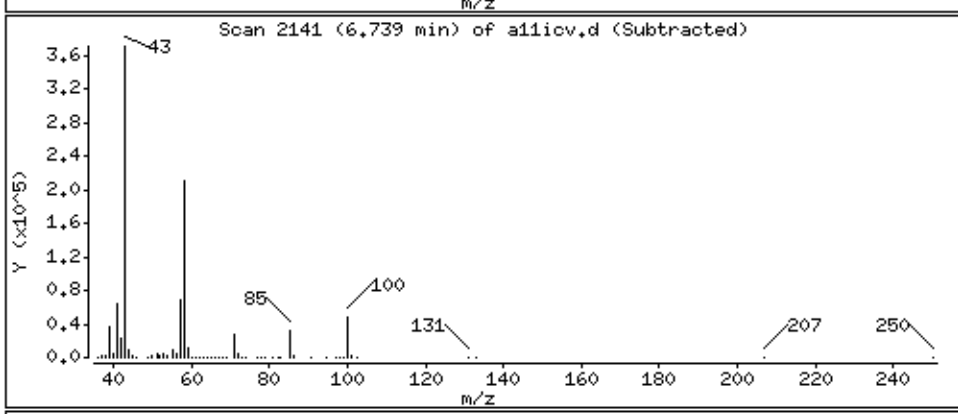
Column phase: DB-624

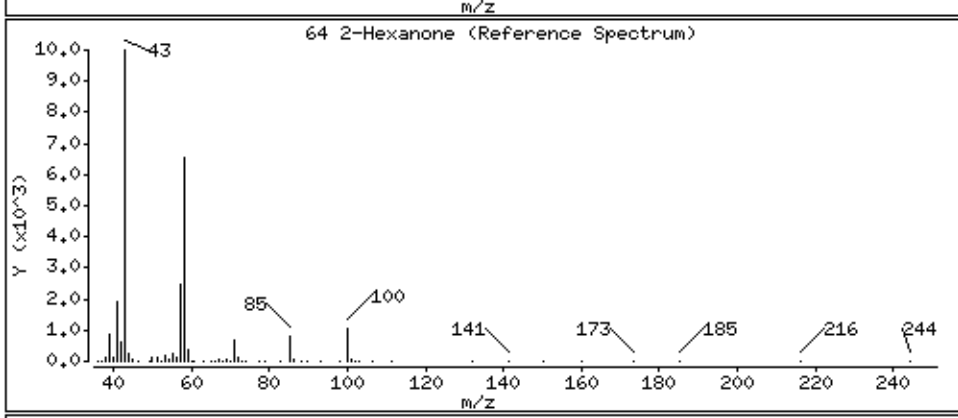
Column diameter: 0.18

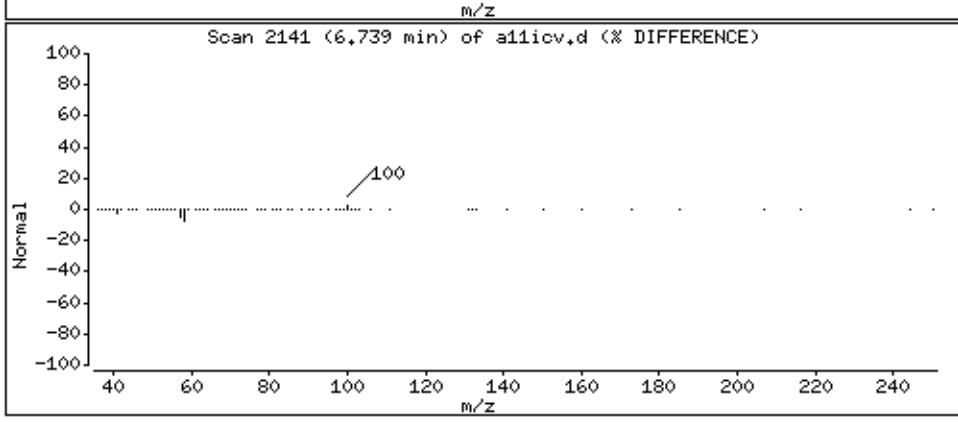
64 2-Hexanone

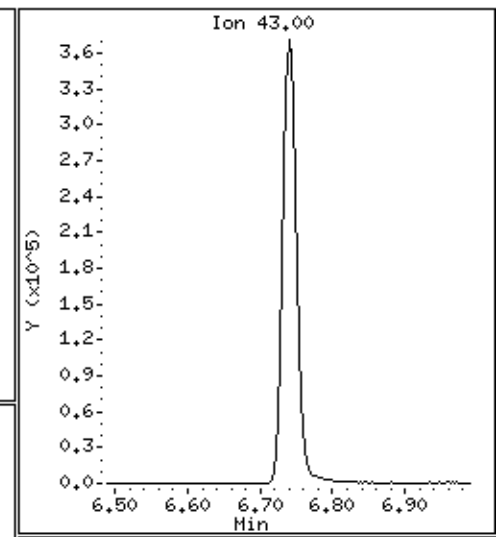
Concentration: 248 ppb

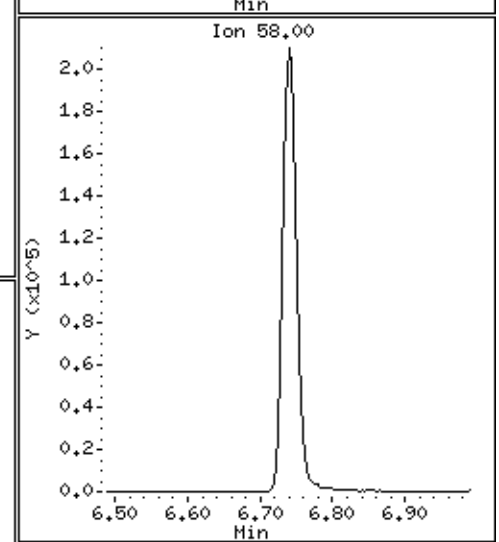


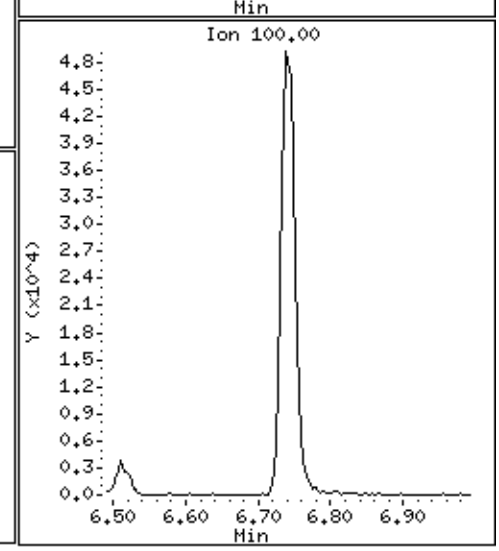












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

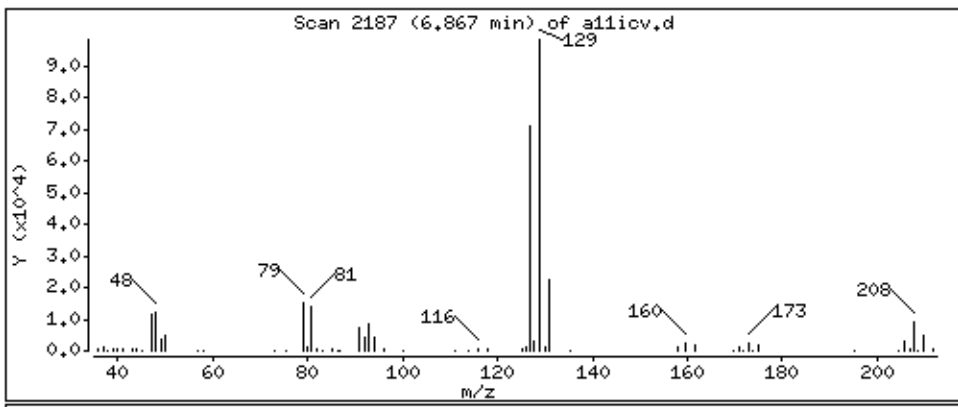
Operator: dae

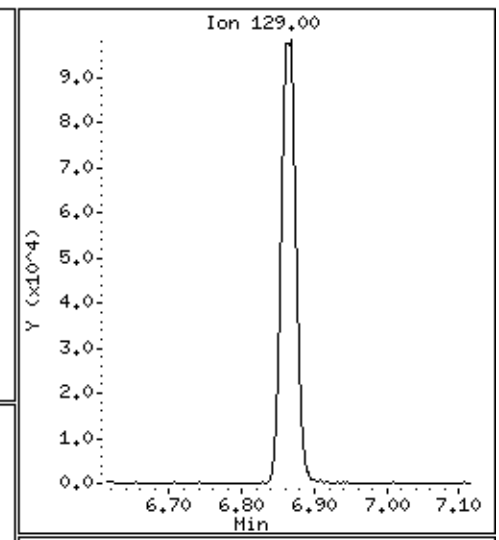
Column phase: DB-624

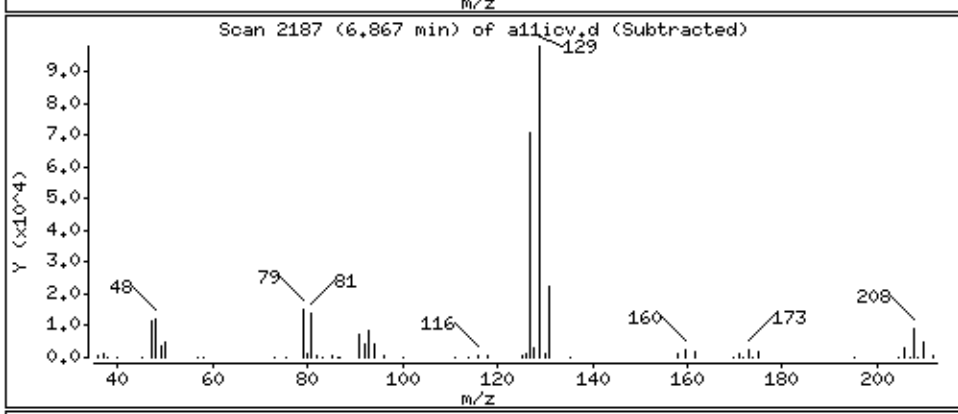
Column diameter: 0.18

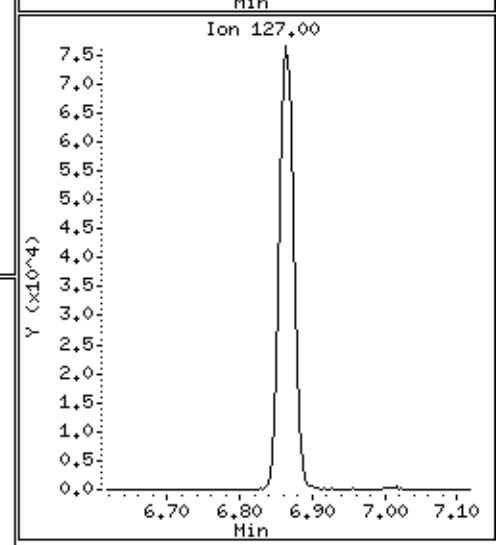
65 Dibromochloromethane

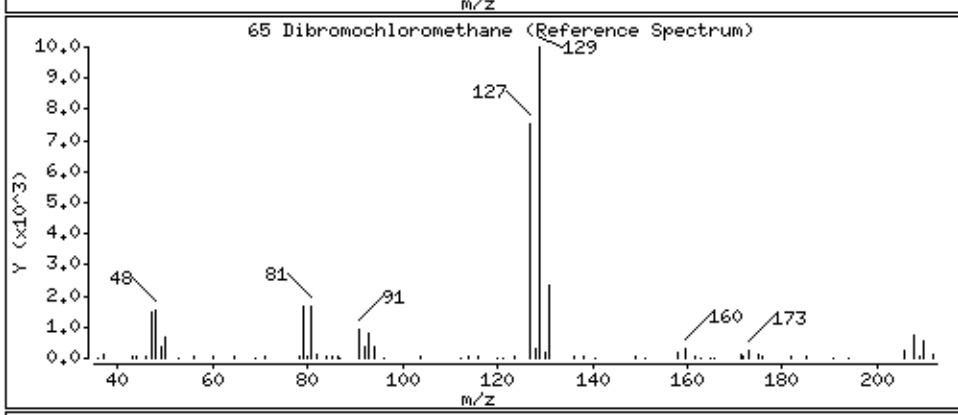
Concentration: 47.5 ppb

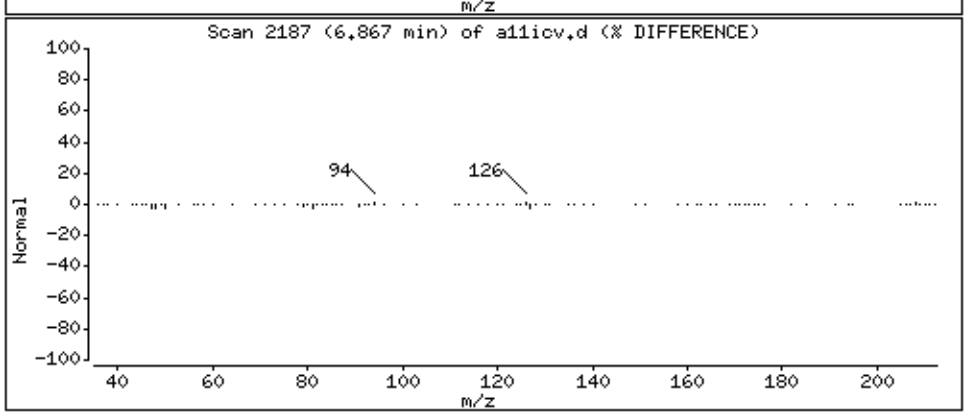












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

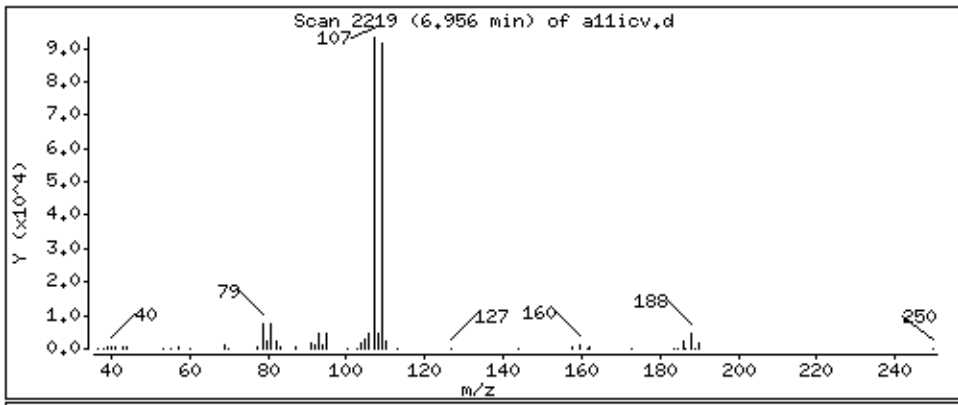
Operator: dae

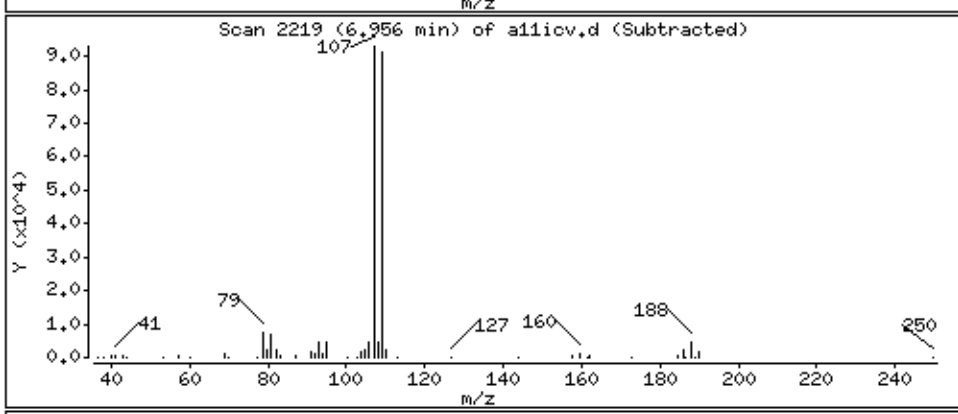
Column phase: DB-624

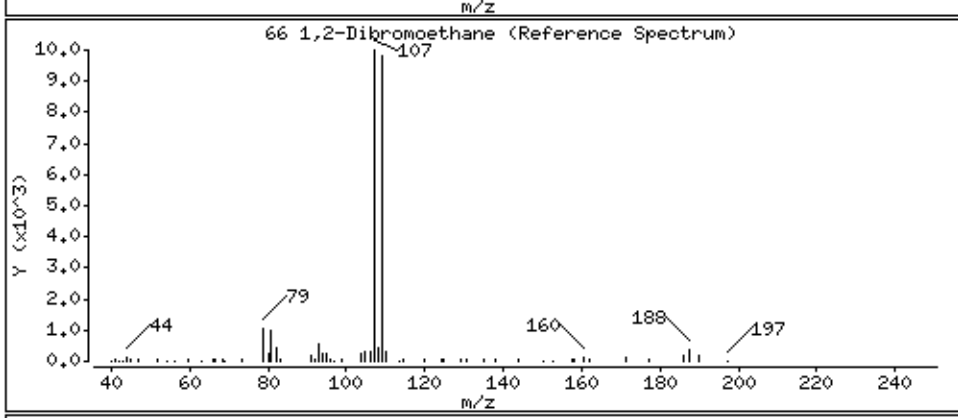
Column diameter: 0.18

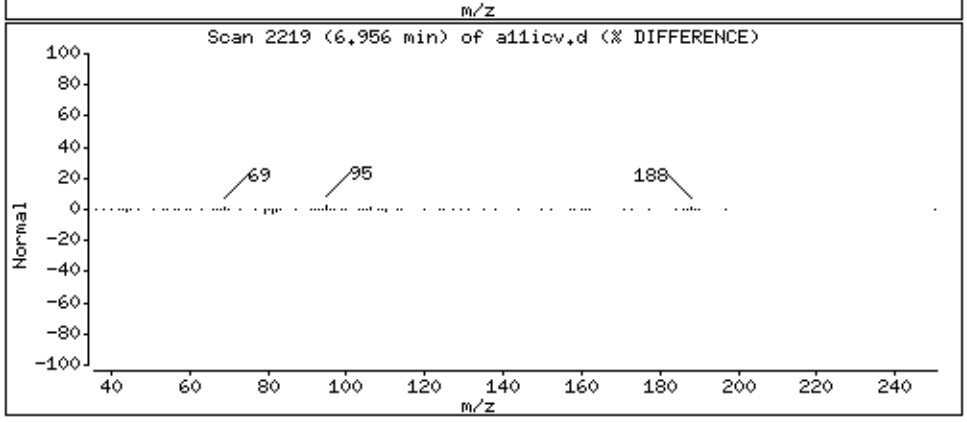
66 1,2-Dibromoethane

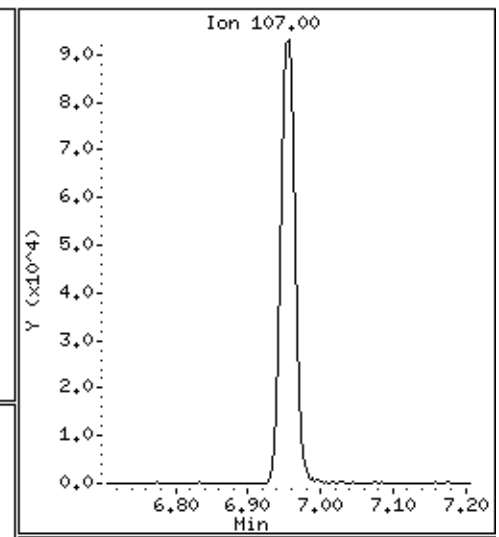
Concentration: 49.0 ppb

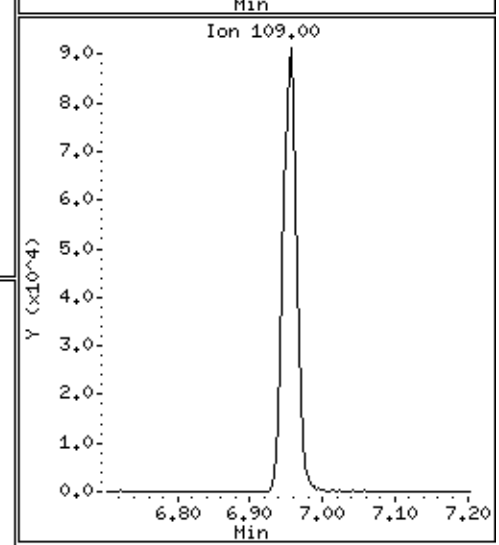












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

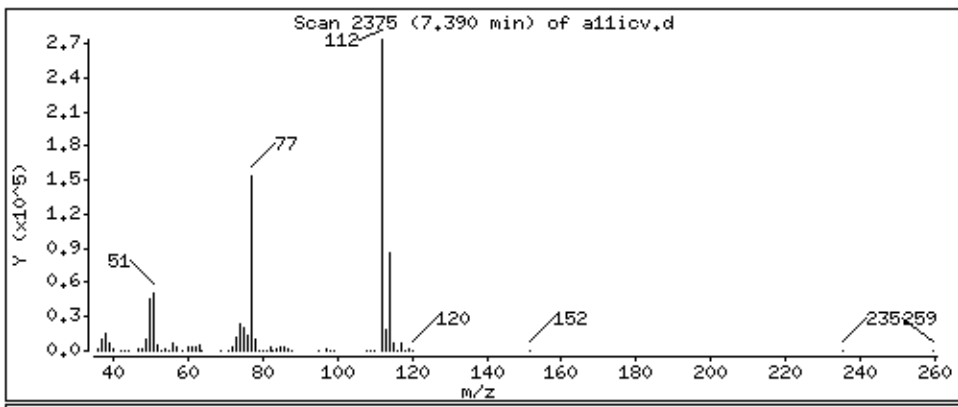
Operator: dae

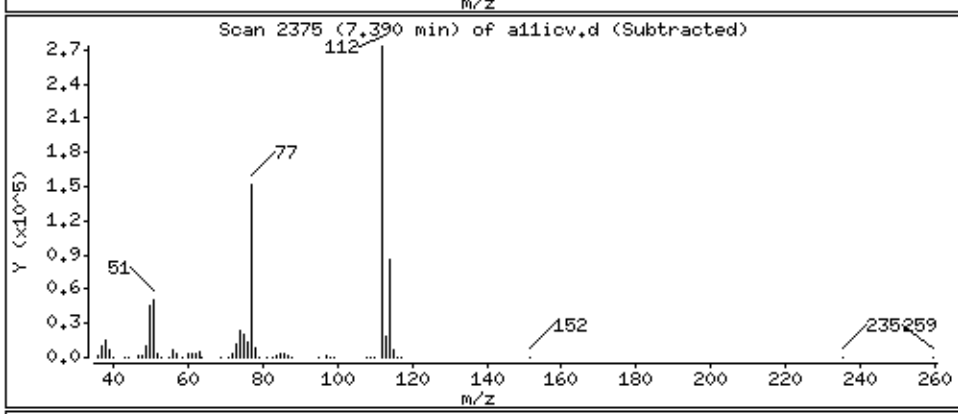
Column phase: DB-624

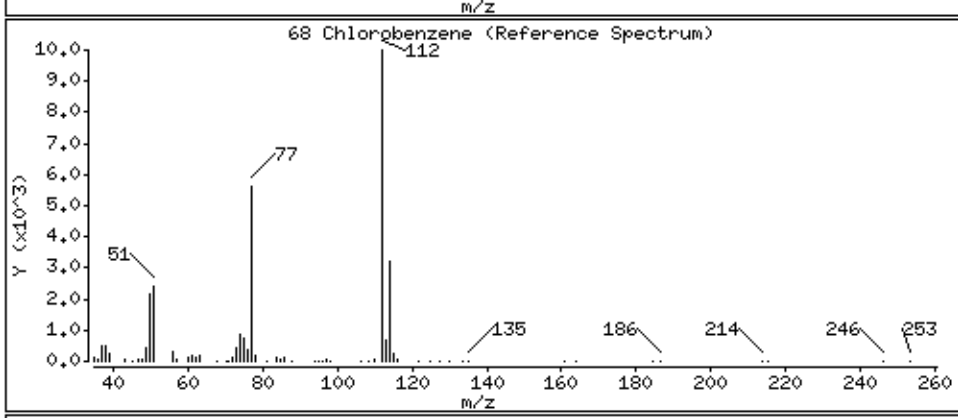
Column diameter: 0.18

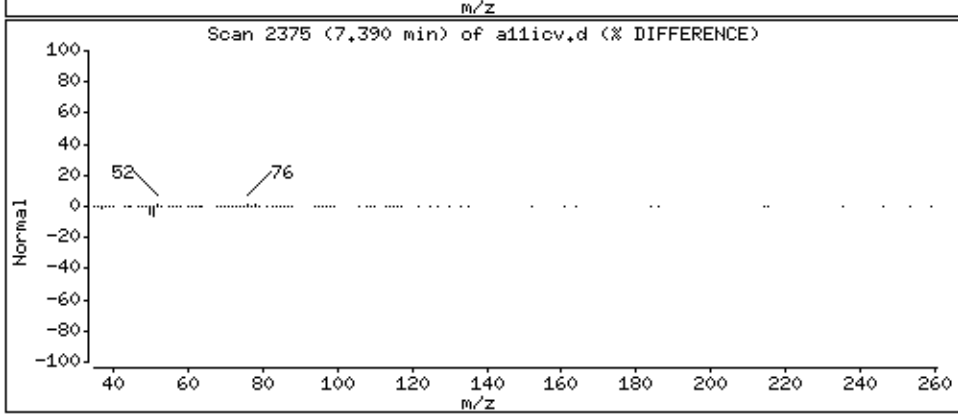
68 Chlorobenzene

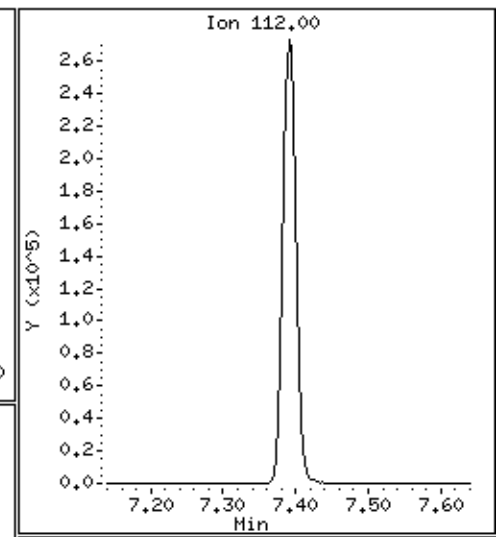
Concentration: 47.4 ppb

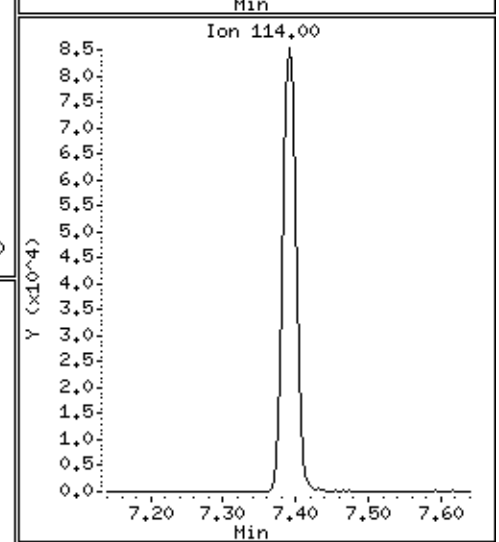


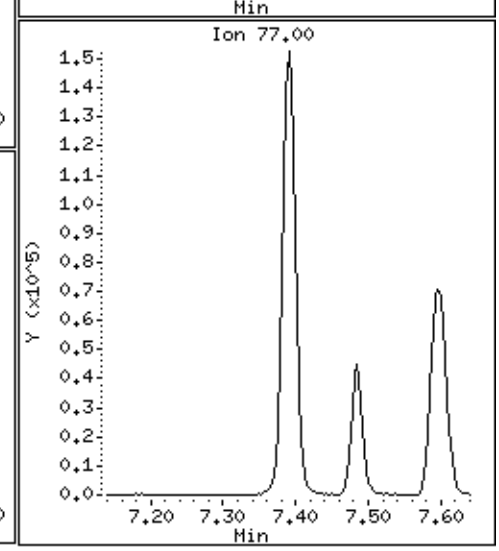












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

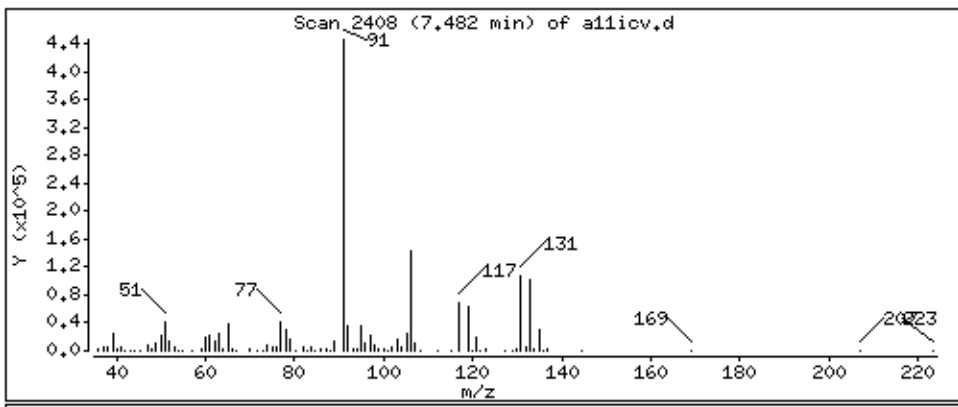
Operator: dae

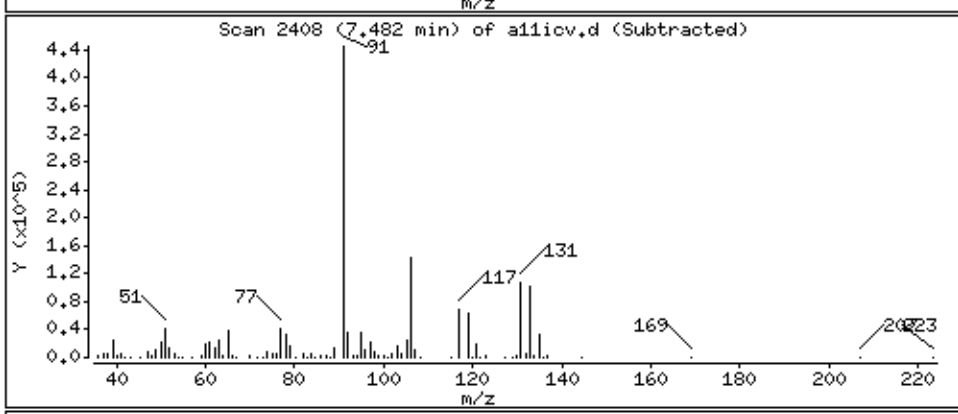
Column phase: DB-624

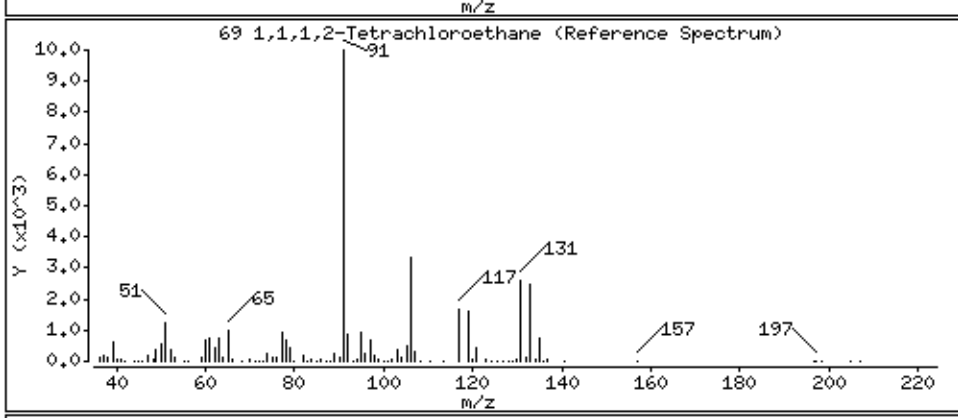
Column diameter: 0.18

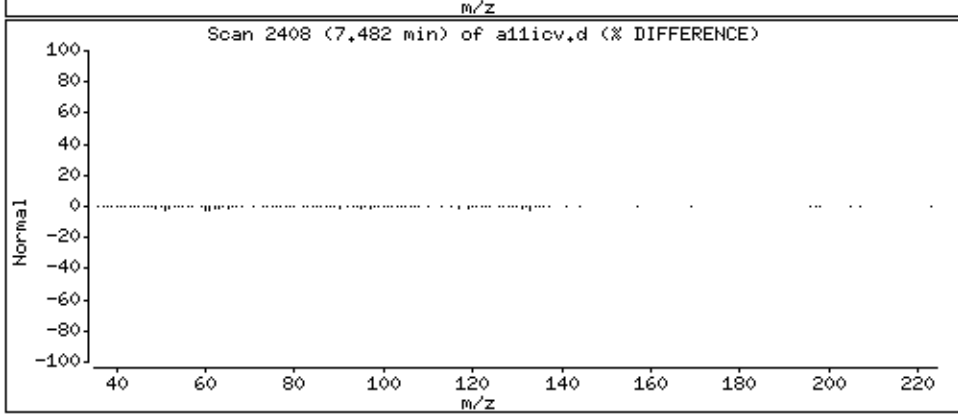
69 1,1,1,2-Tetrachloroethane

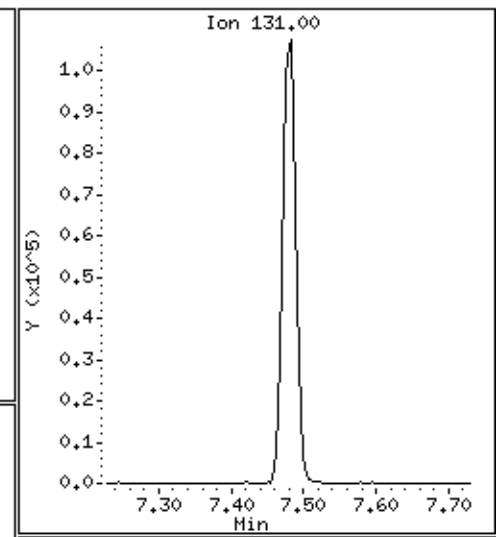
Concentration: 49.5 ppb

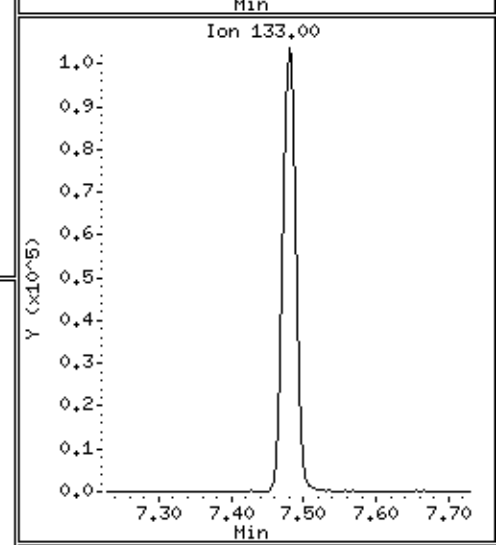


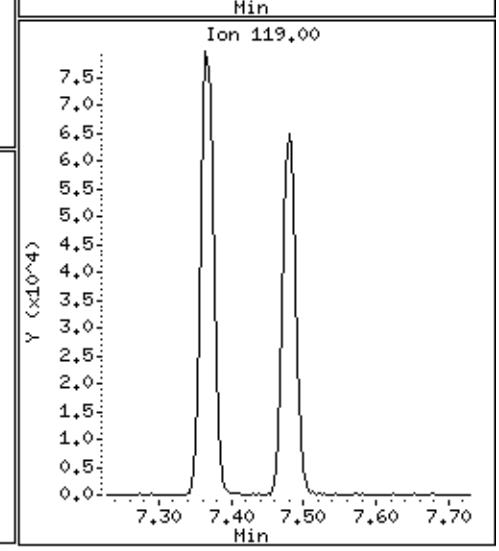












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

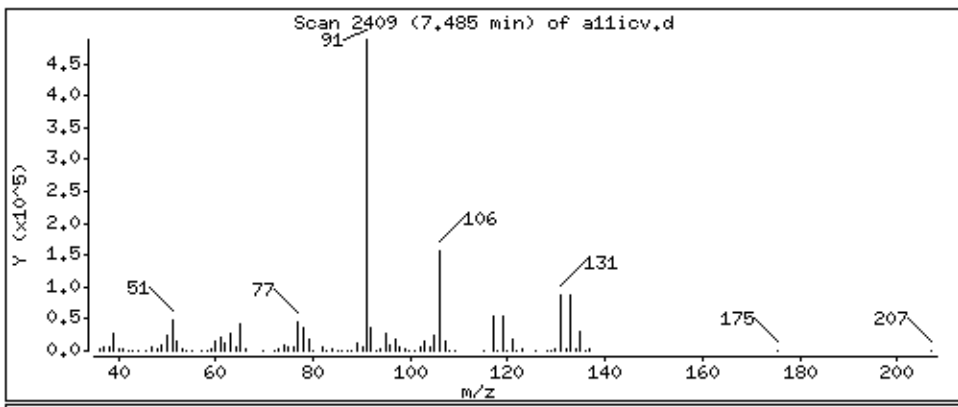
Operator: dae

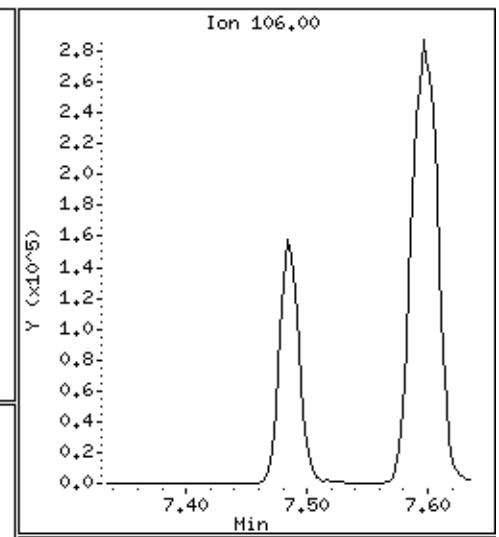
Column phase: DB-624

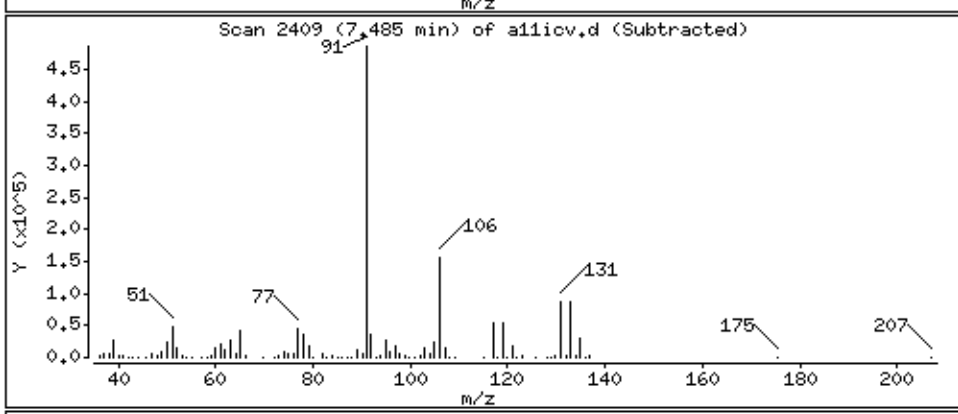
Column diameter: 0.18

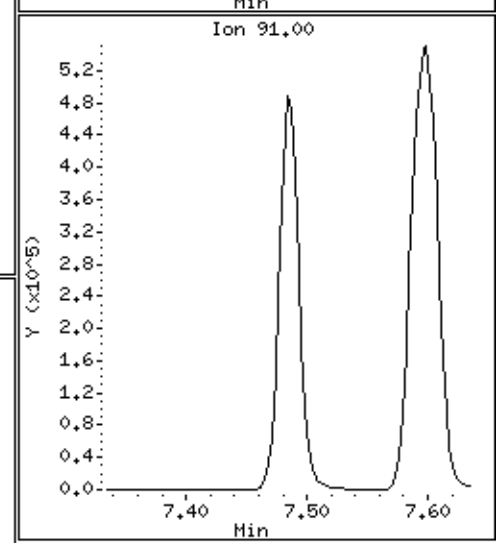
70 Ethylbenzene

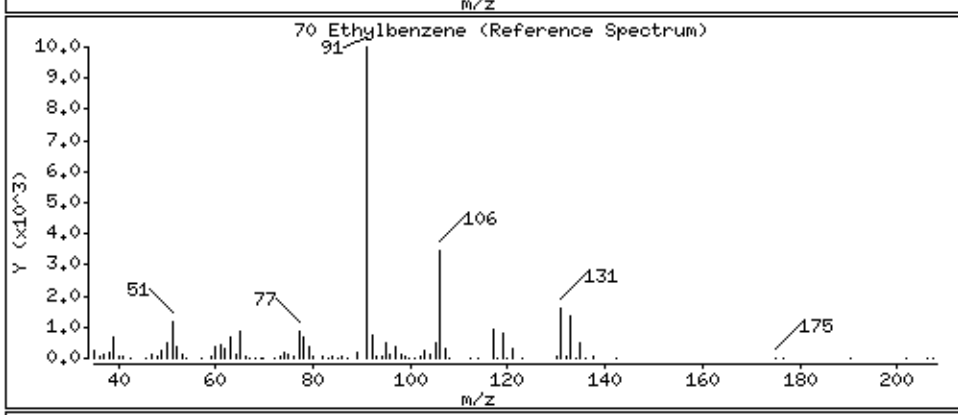
Concentration: 48.5 ppb

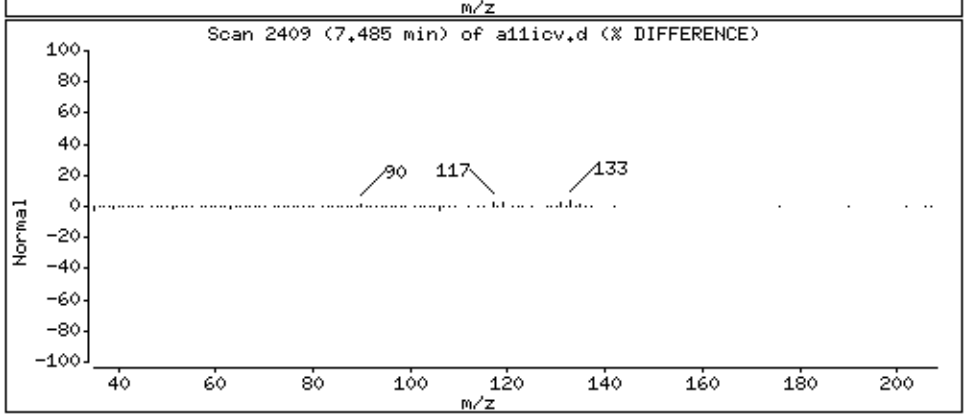












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

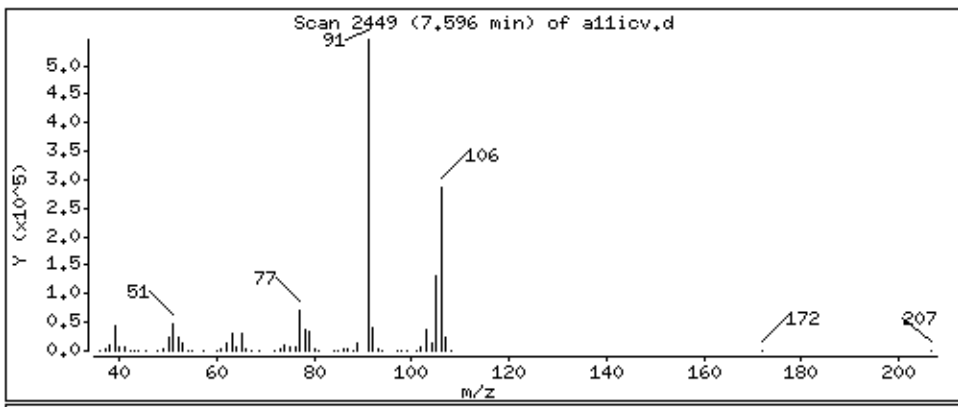
Operator: dae

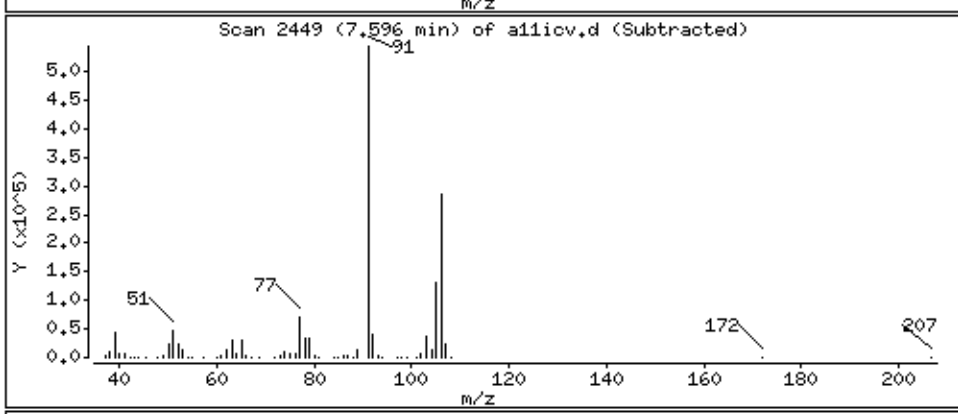
Column phase: DB-624

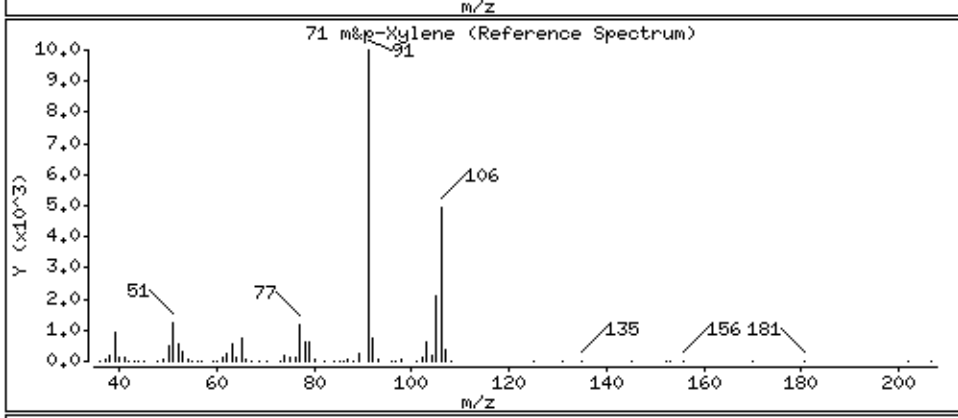
Column diameter: 0.18

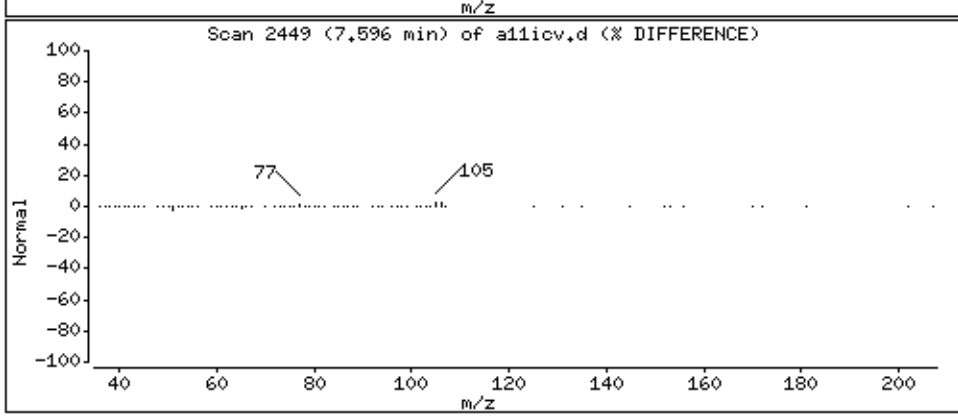
71 m&p-Xylene

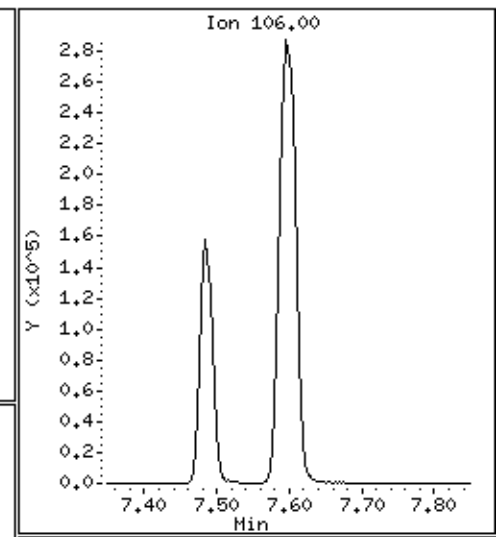
Concentration: 96.6 ppb

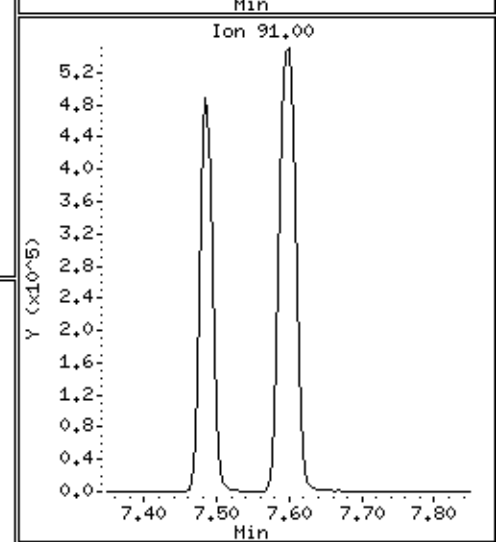


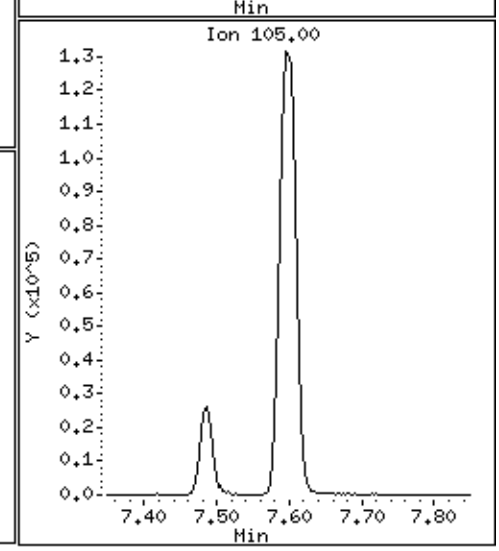












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

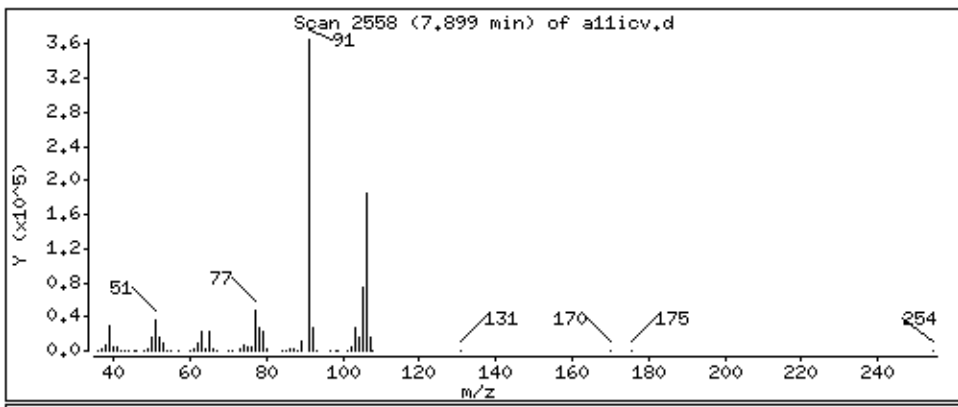
Operator: dae

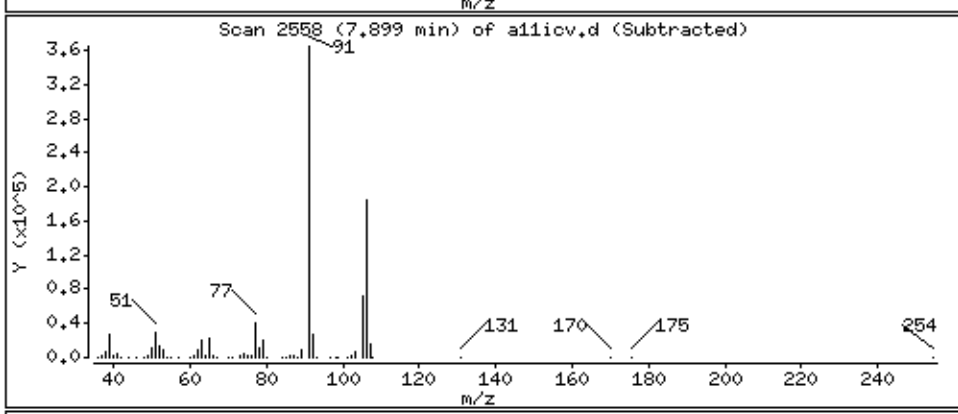
Column phase: DB-624

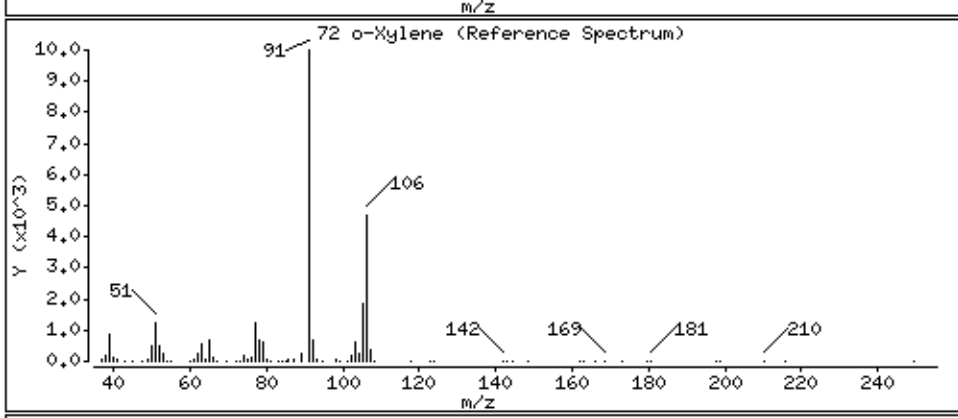
Column diameter: 0.18

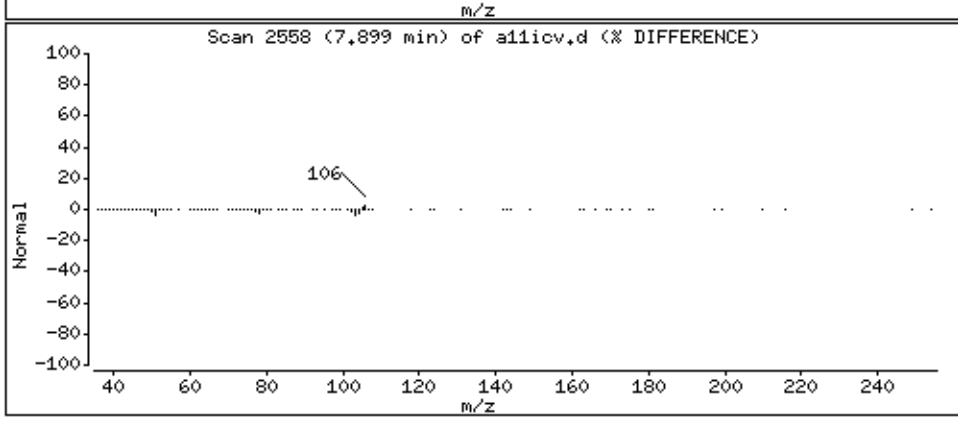
72 o-Xylene

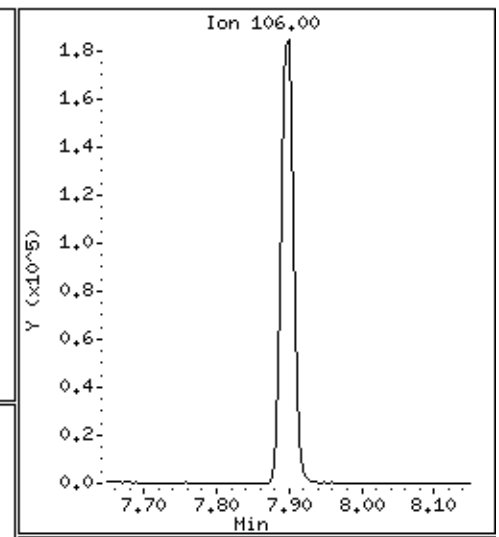
Concentration: 49.4 ppb

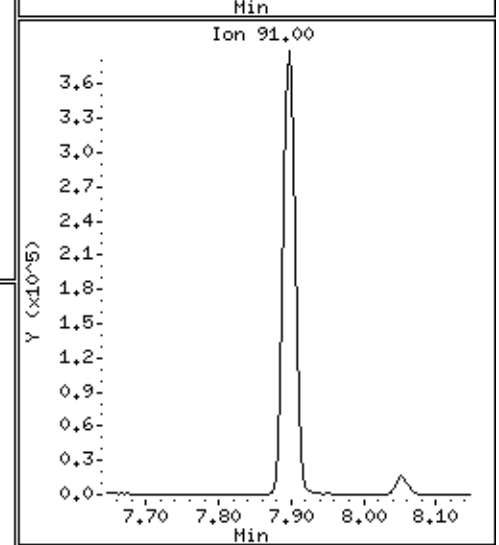


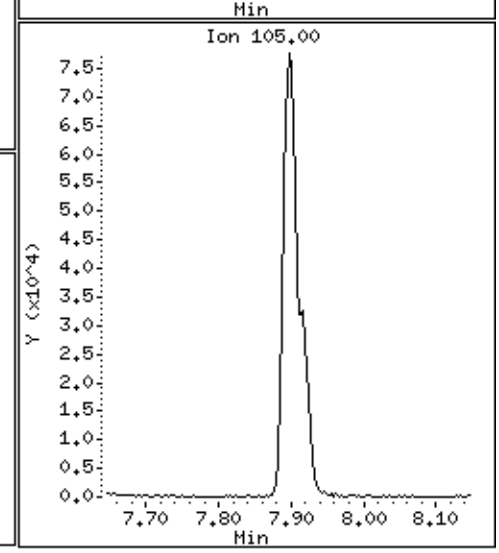












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

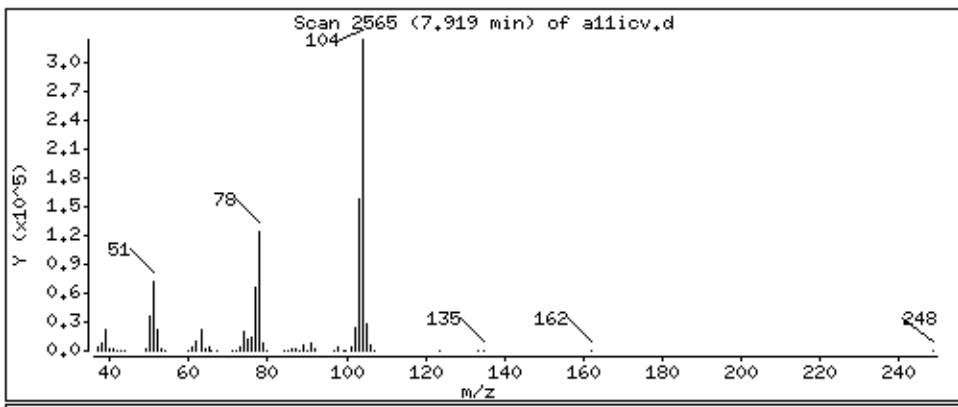
Operator: dae

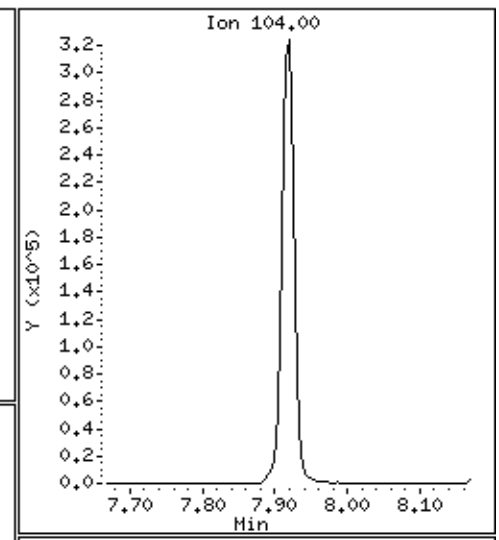
Column phase: DB-624

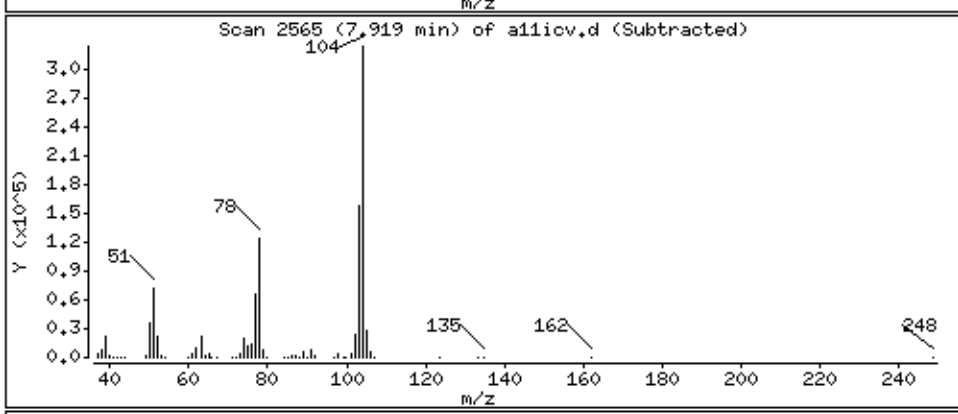
Column diameter: 0.18

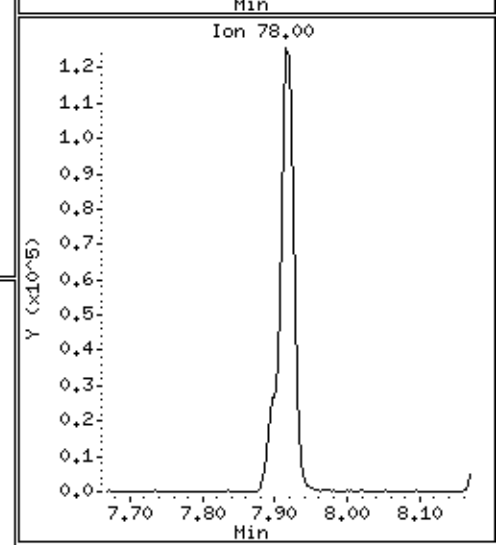
73 Styrene

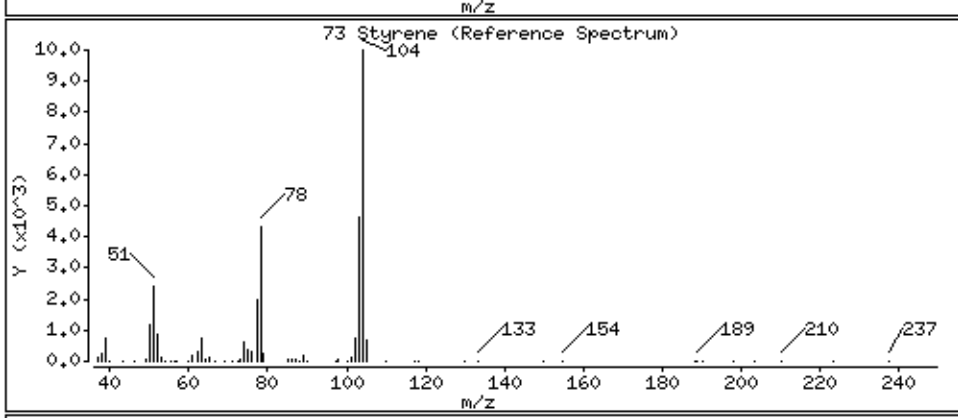
Concentration: 50.0 ppb

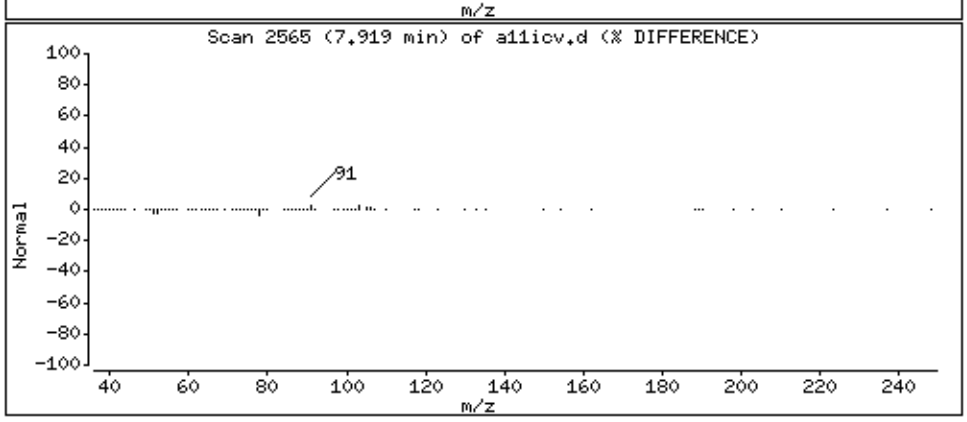












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

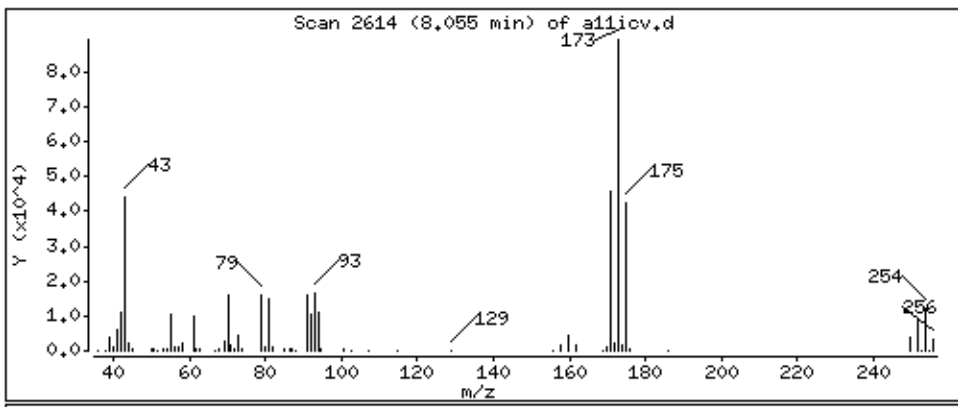
Operator: dae

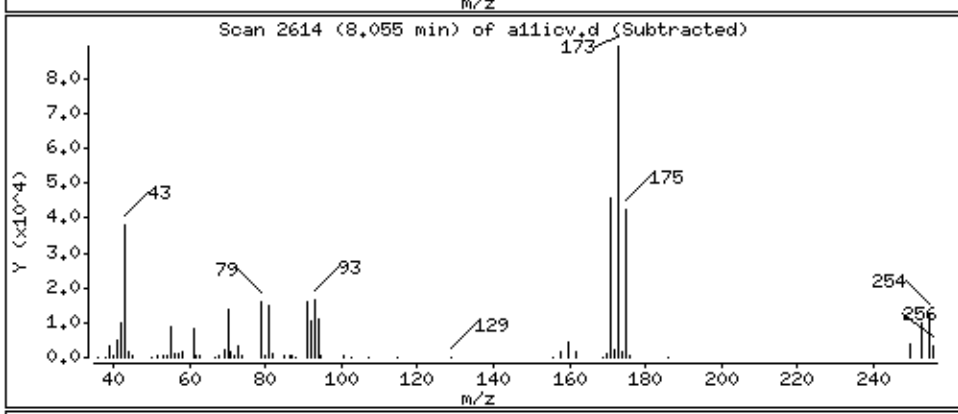
Column phase: DB-624

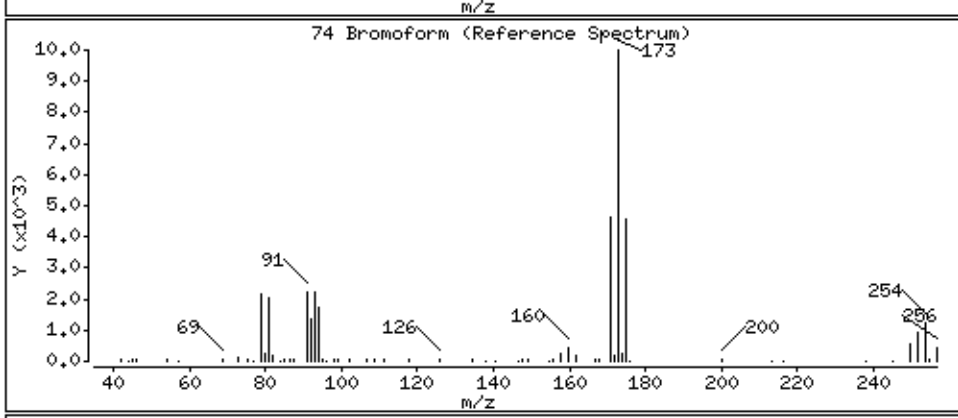
Column diameter: 0.18

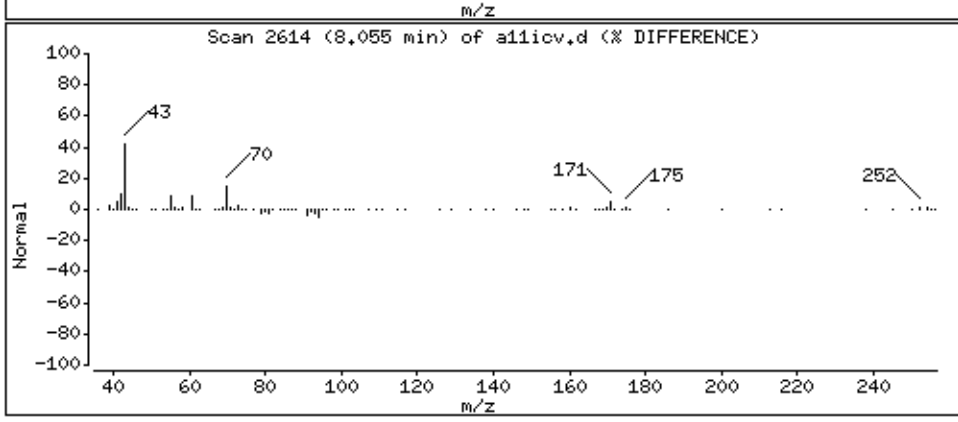
74 Bromoform

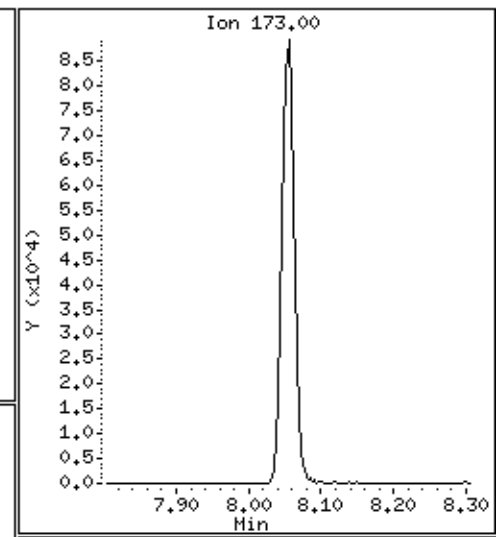
Concentration: 44.0 ppb

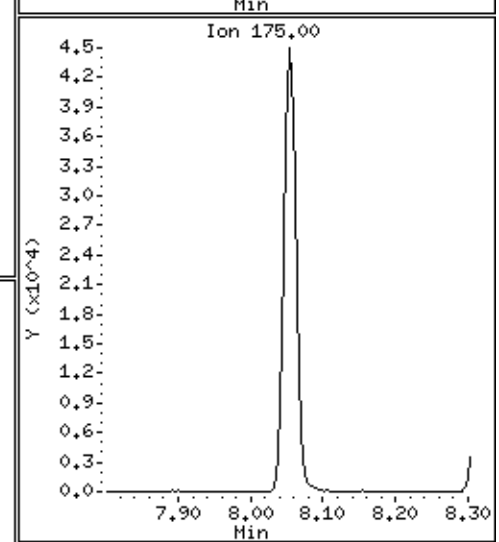


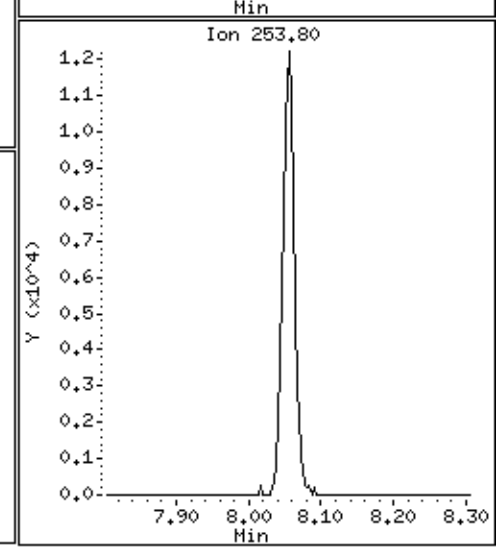












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

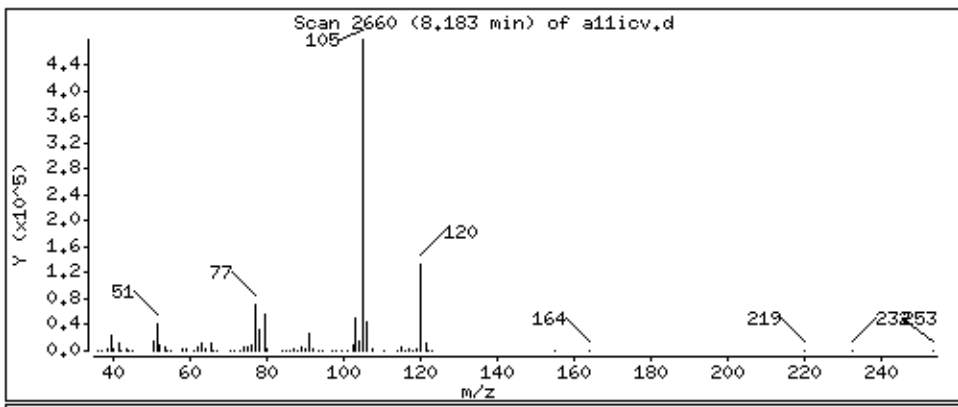
Operator: dae

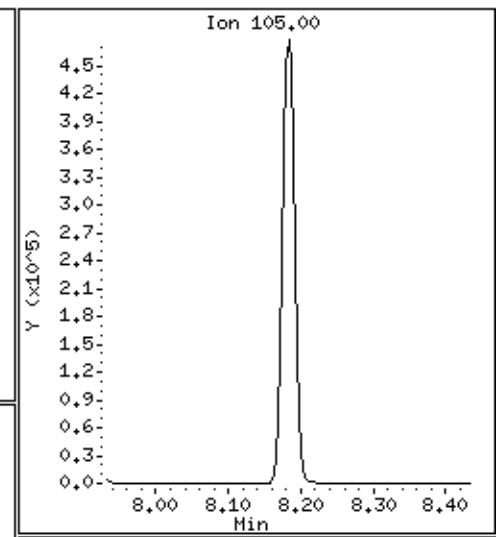
Column phase: DB-624

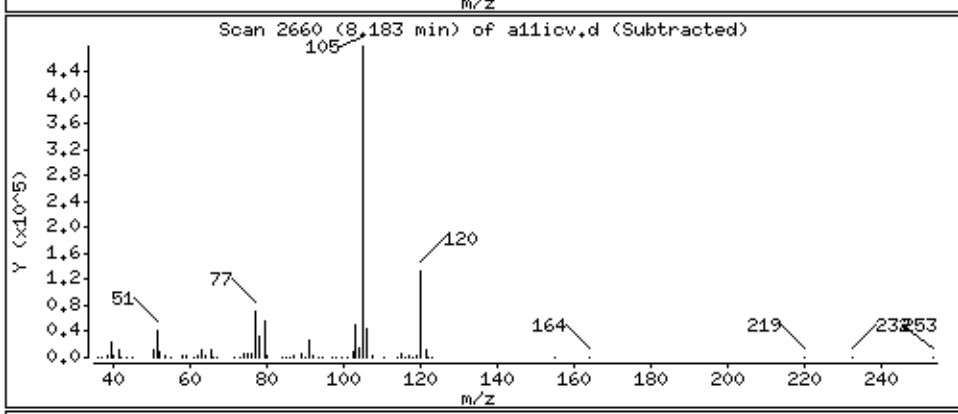
Column diameter: 0.18

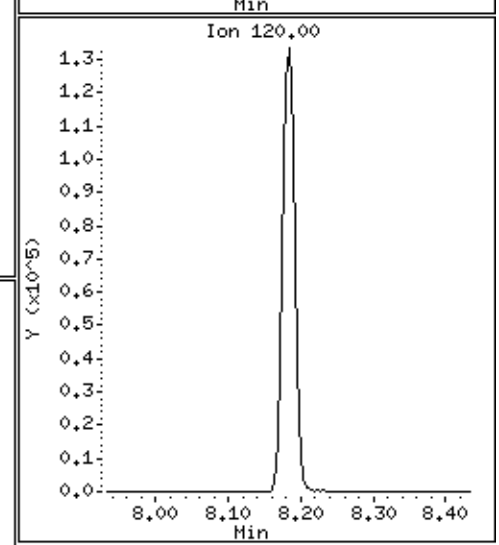
75 Isopropylbenzene

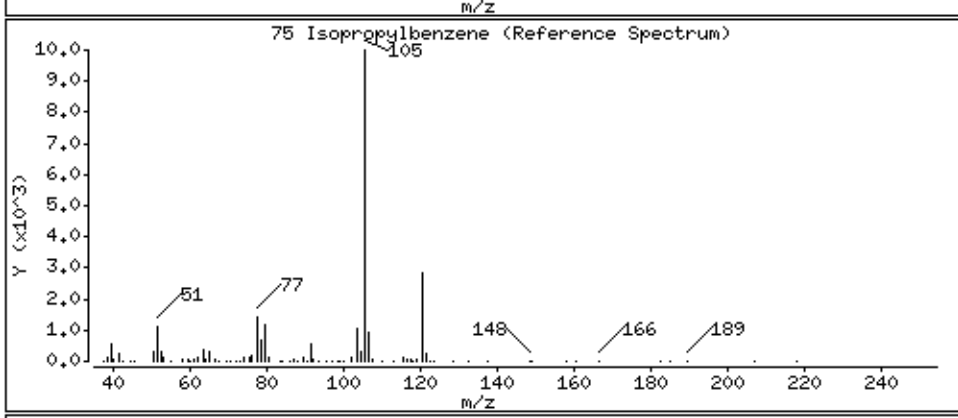
Concentration: 49.8 ppb

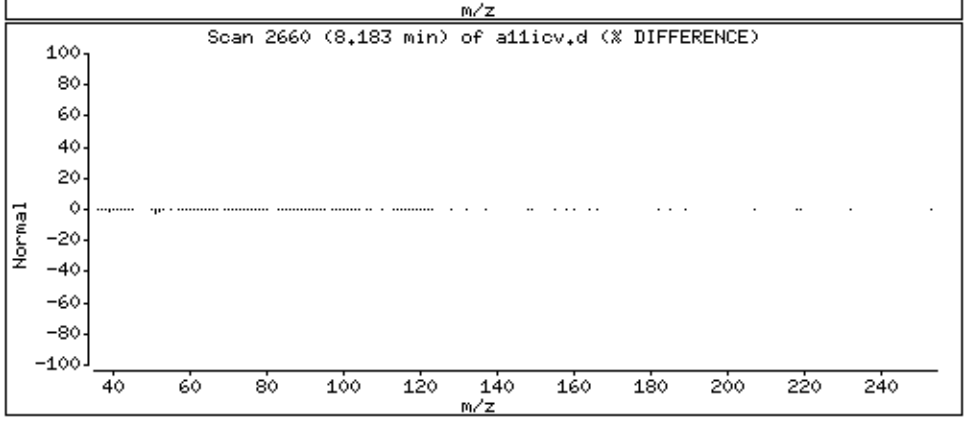












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

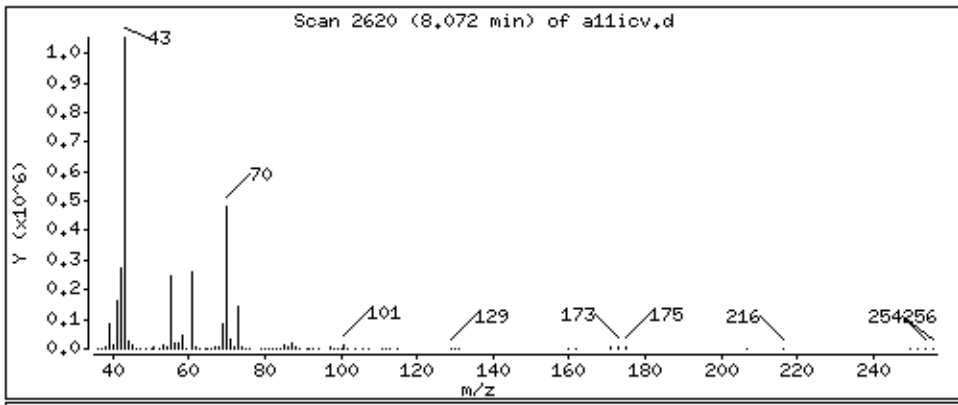
Operator: dae

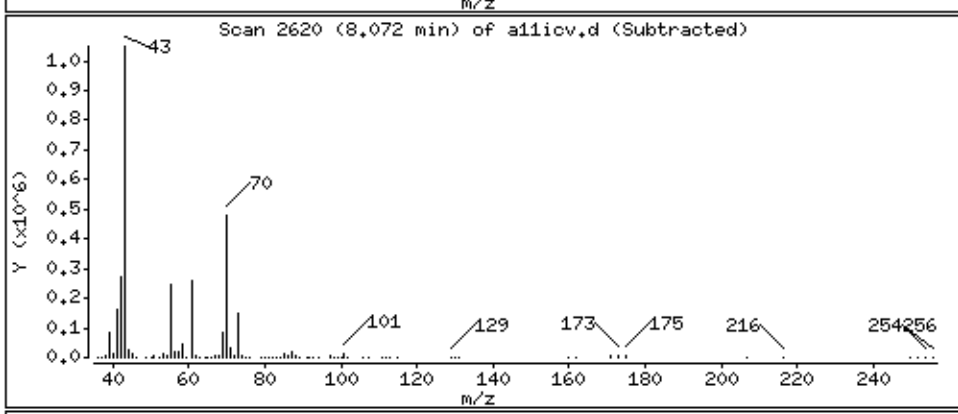
Column phase: DB-624

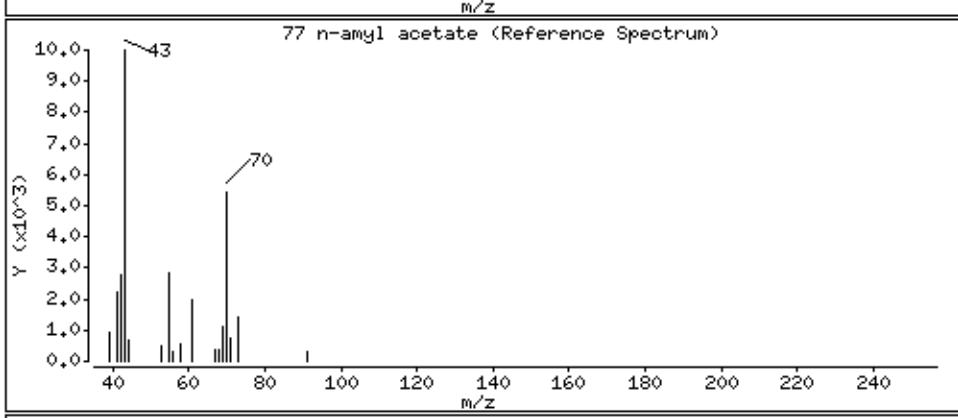
Column diameter: 0.18

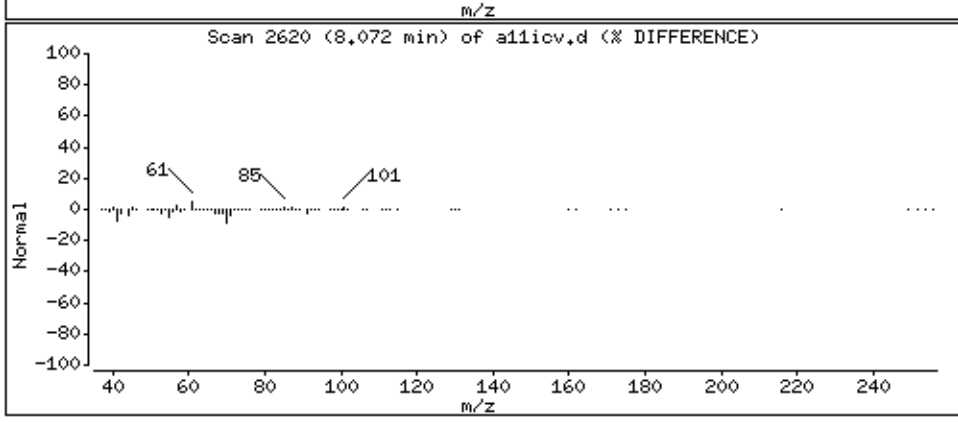
77 n-amyl acetate

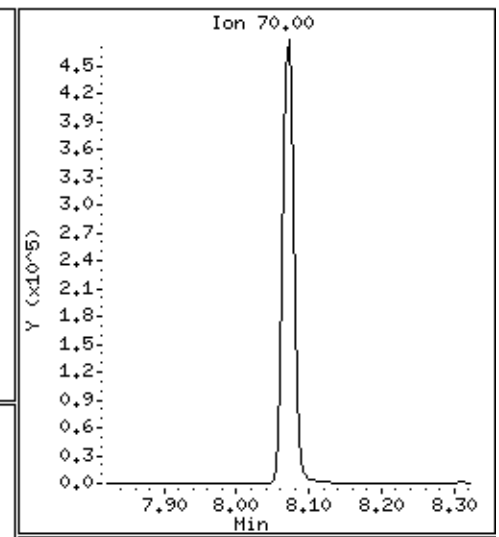
Concentration: 238 ppb

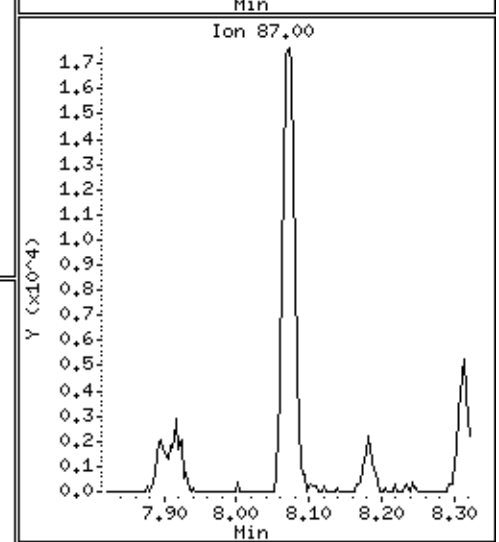


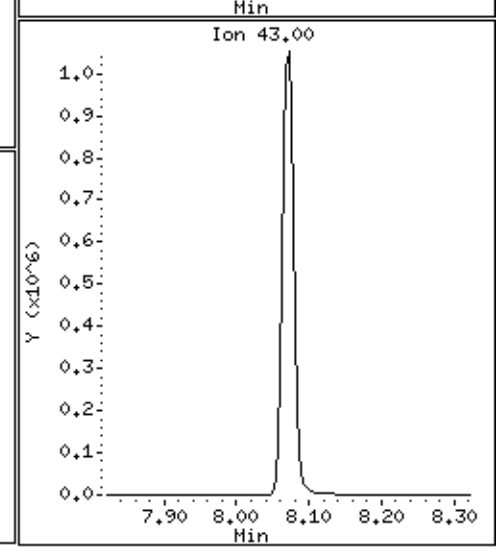












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

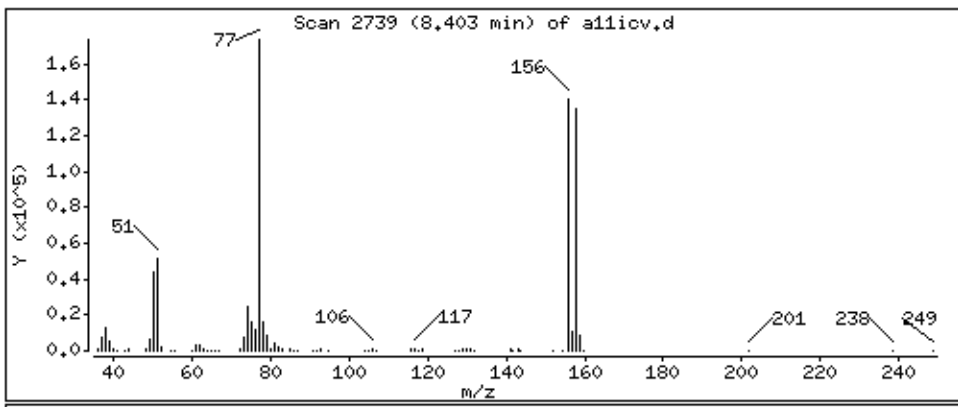
Operator: dae

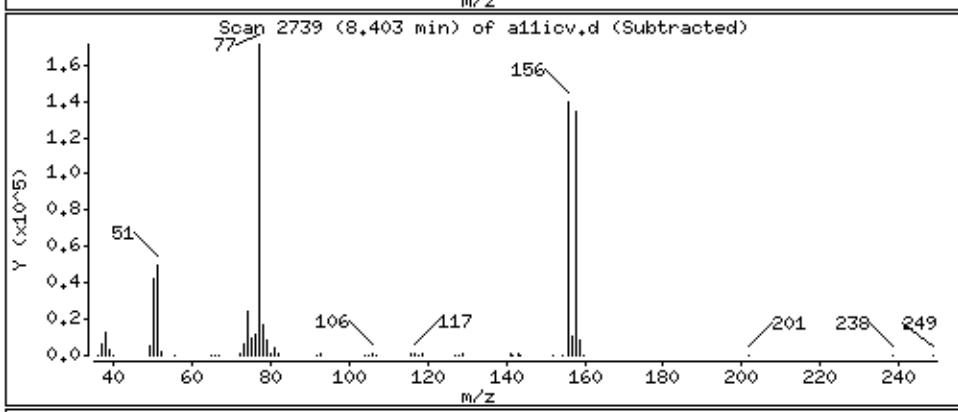
Column phase: DB-624

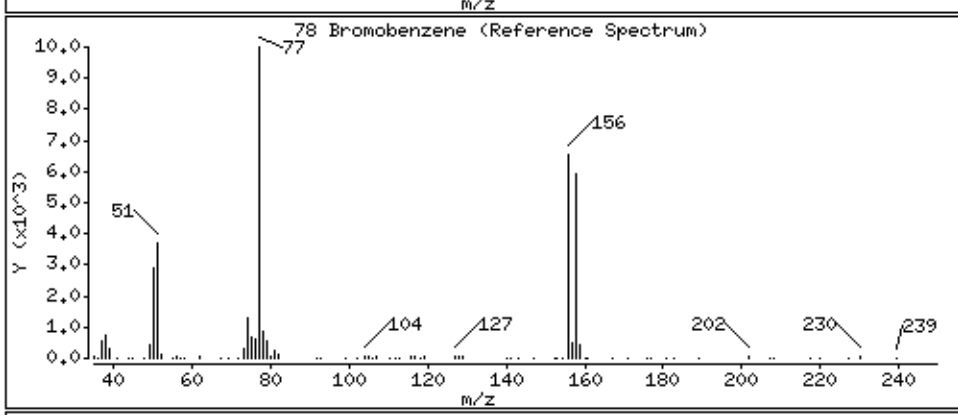
Column diameter: 0.18

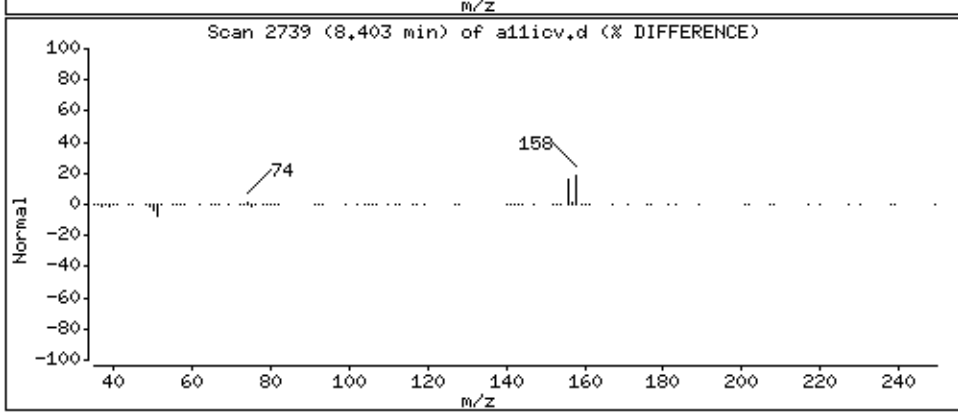
78 Bromobenzene

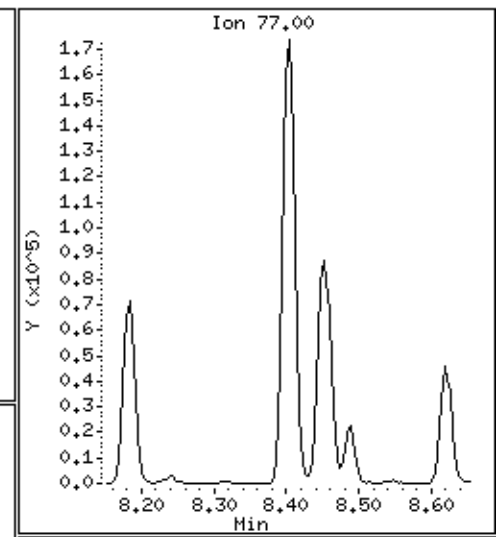
Concentration: 46.2 ppb

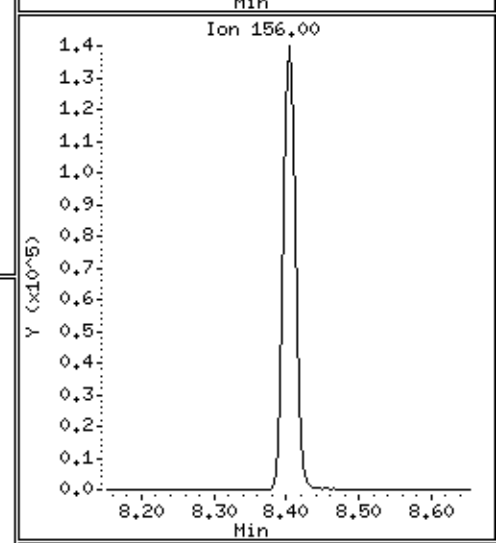


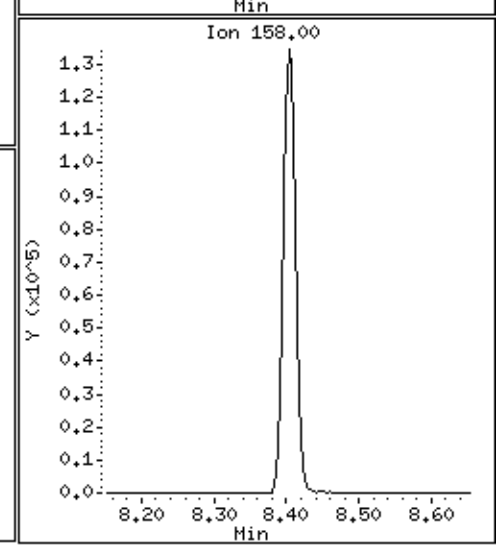












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

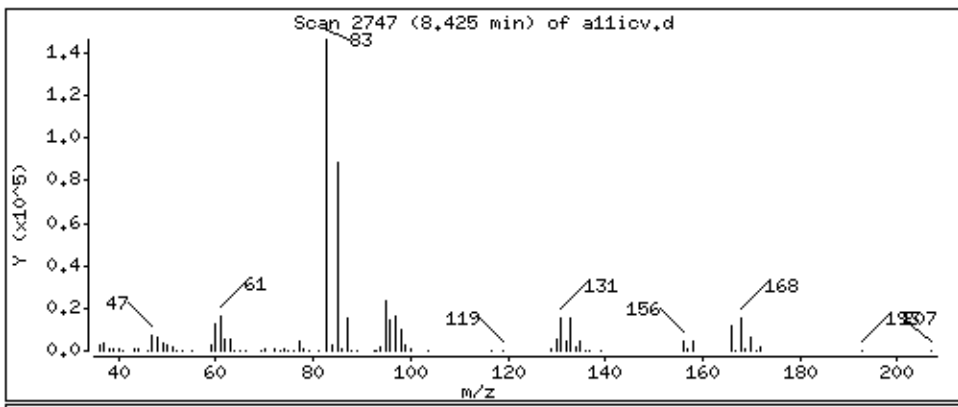
Operator: dae

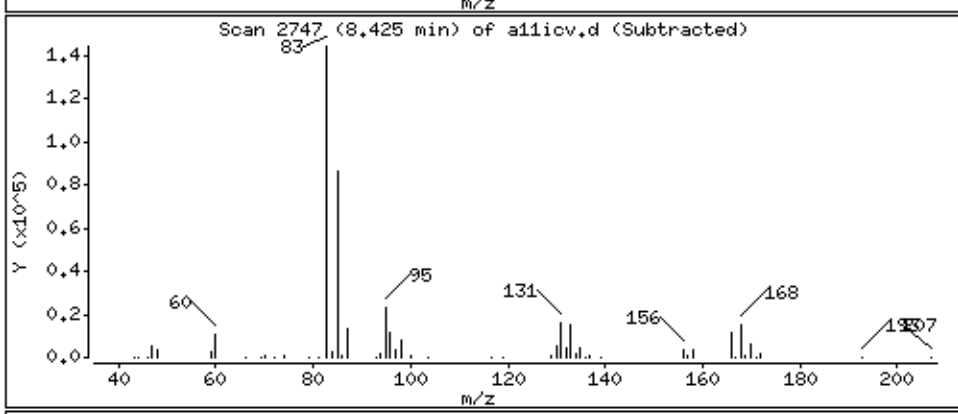
Column phase: DB-624

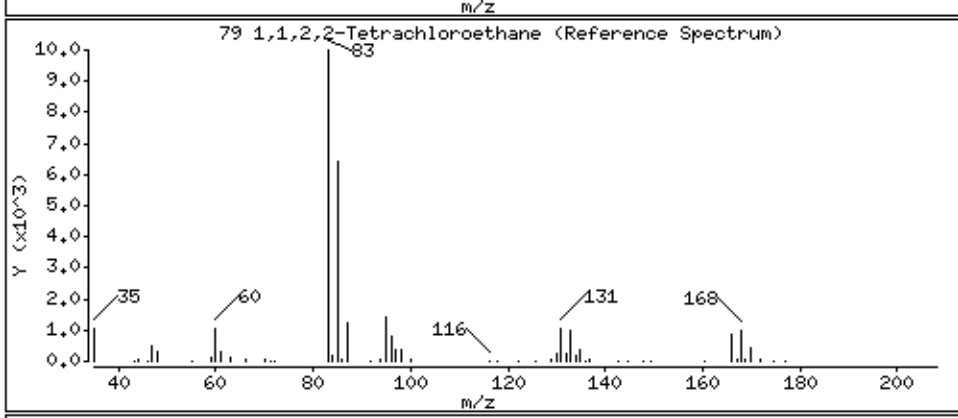
Column diameter: 0.18

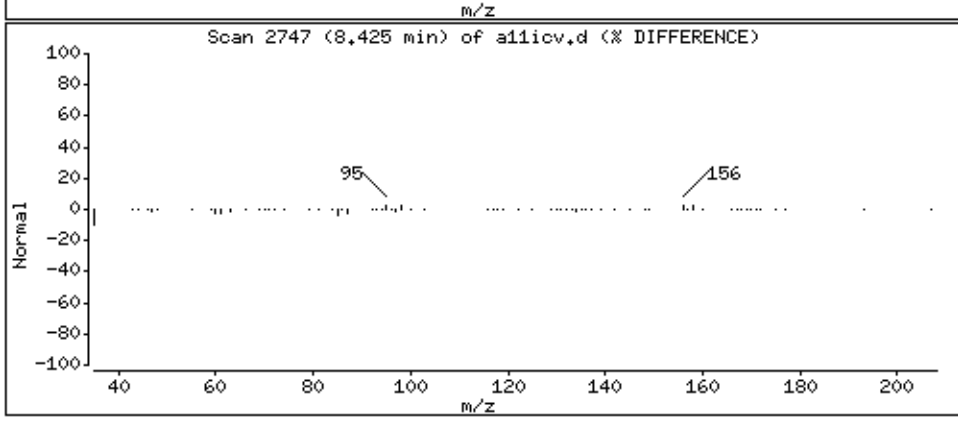
79 1,1,2,2-Tetrachloroethane

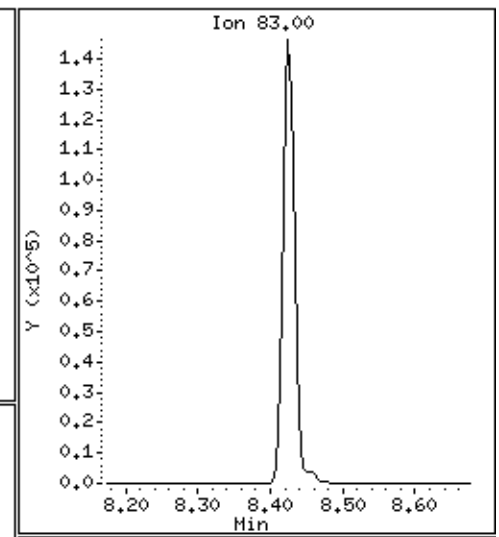
Concentration: 48.6 ppb

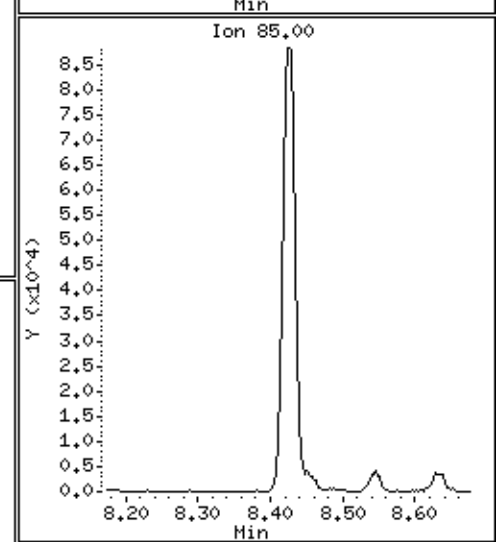


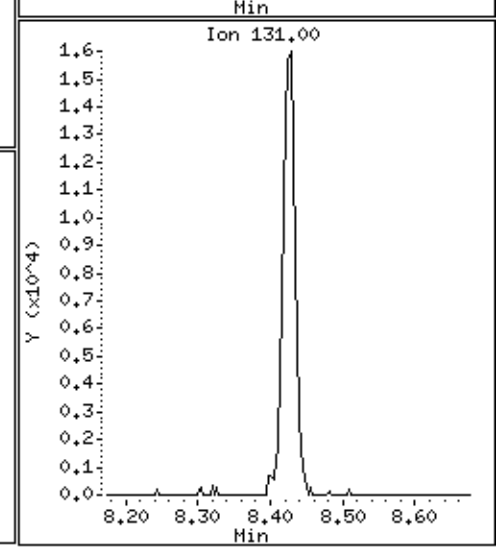












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

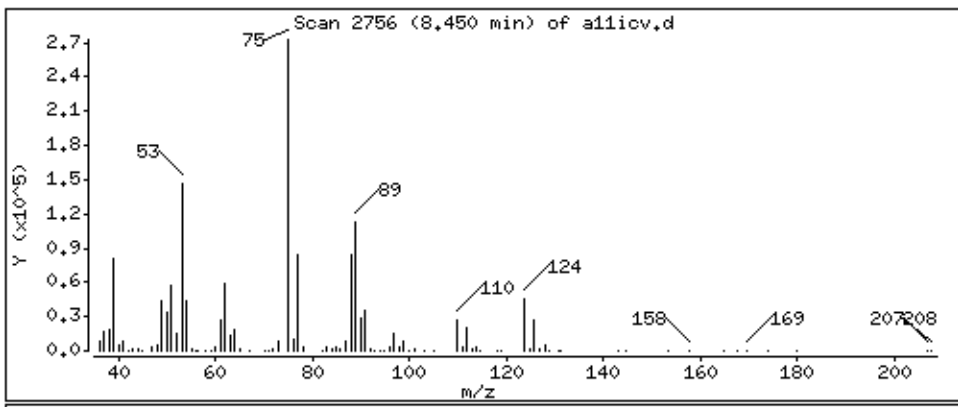
Operator: dae

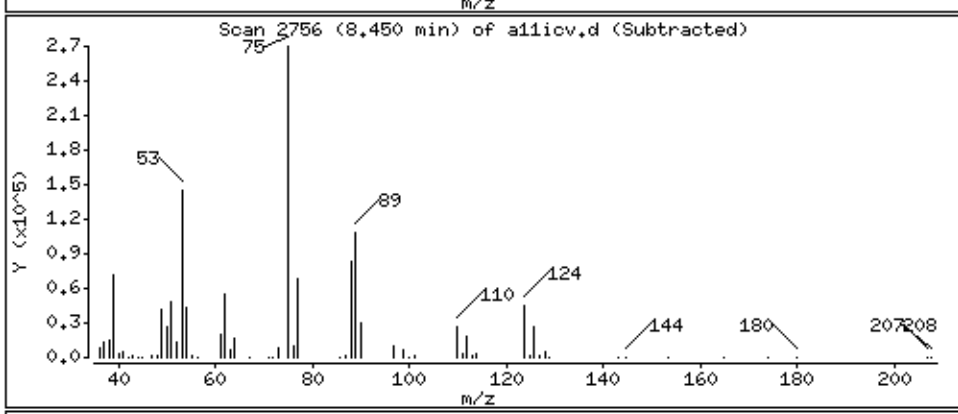
Column phase: DB-624

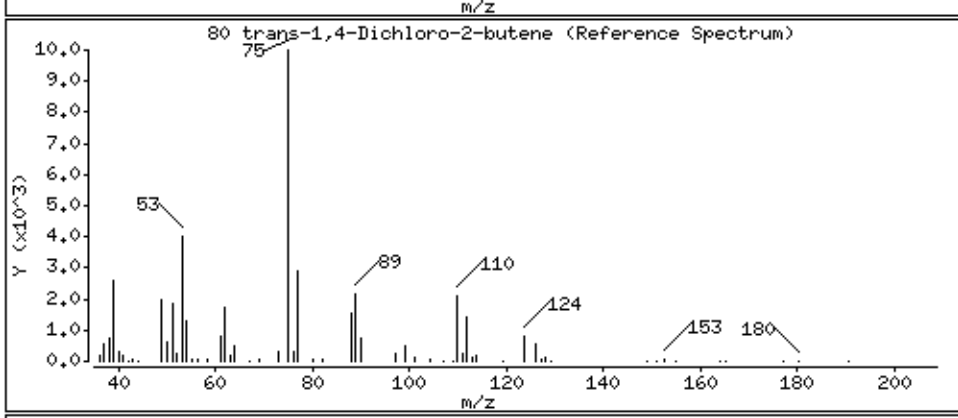
Column diameter: 0.18

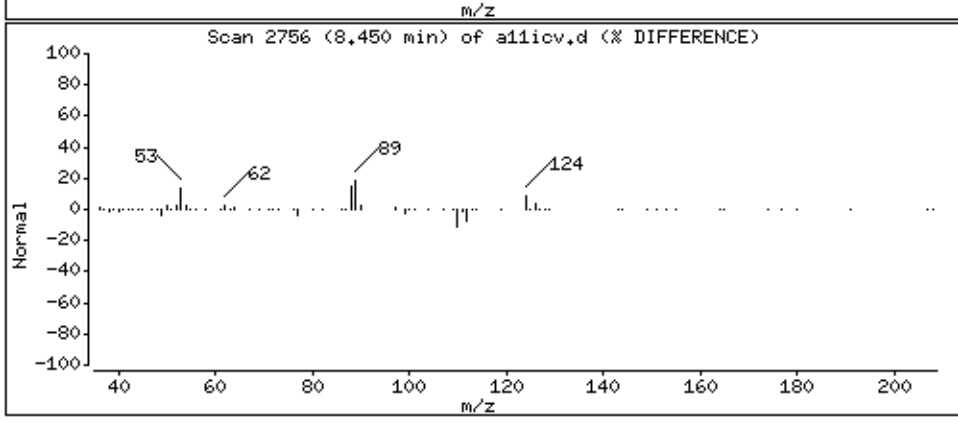
80 trans-1,4-Dichloro-2-butene

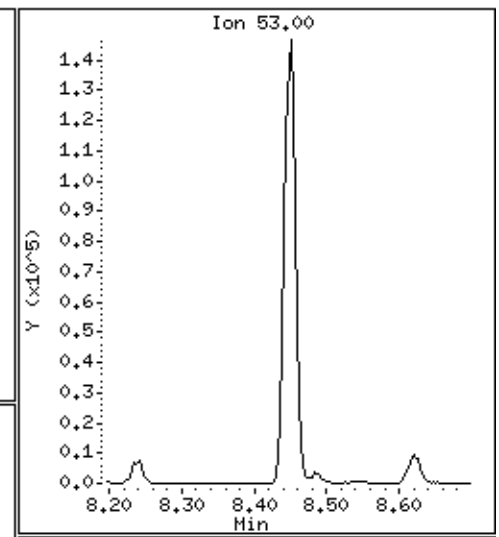
Concentration: 165 ppb

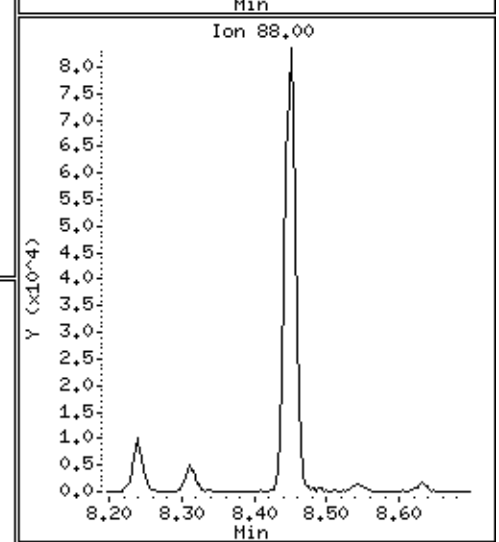


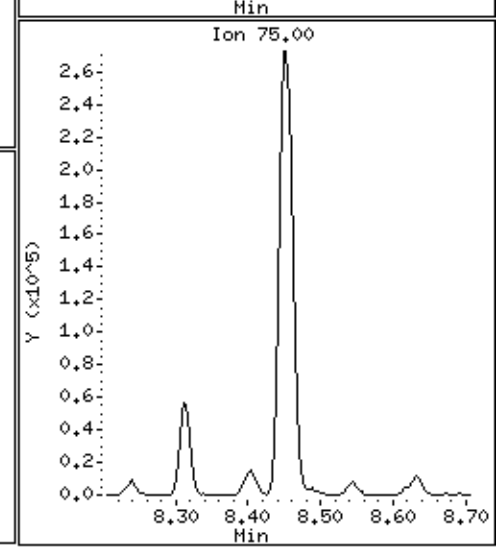












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

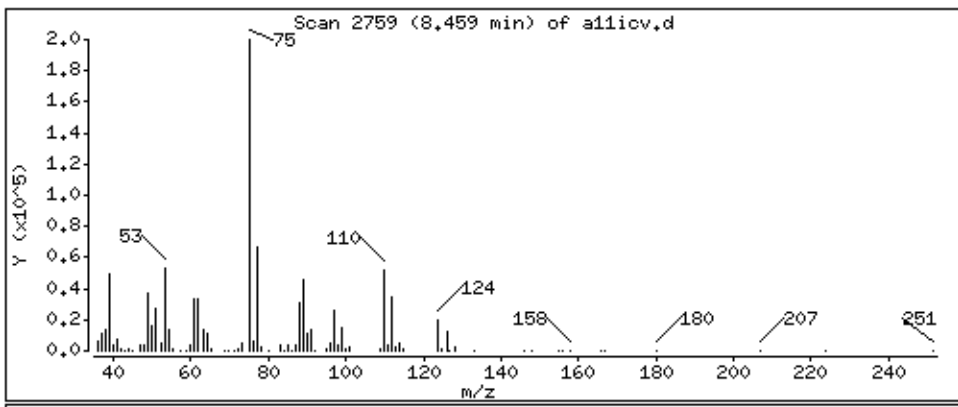
Operator: dae

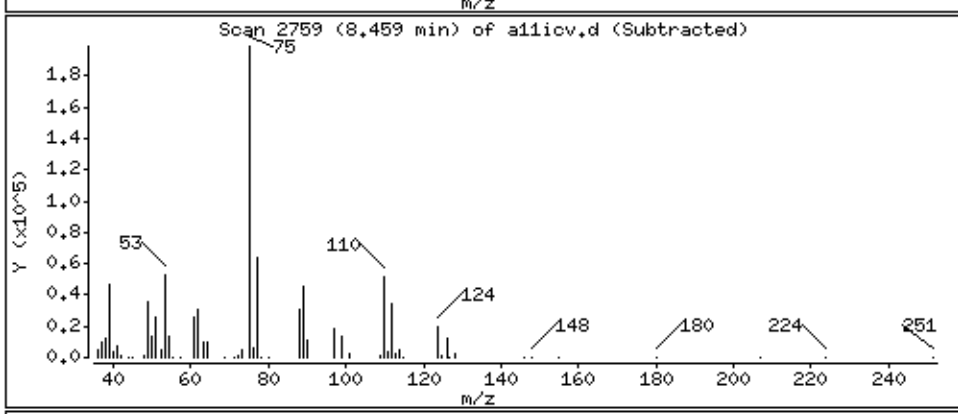
Column phase: DB-624

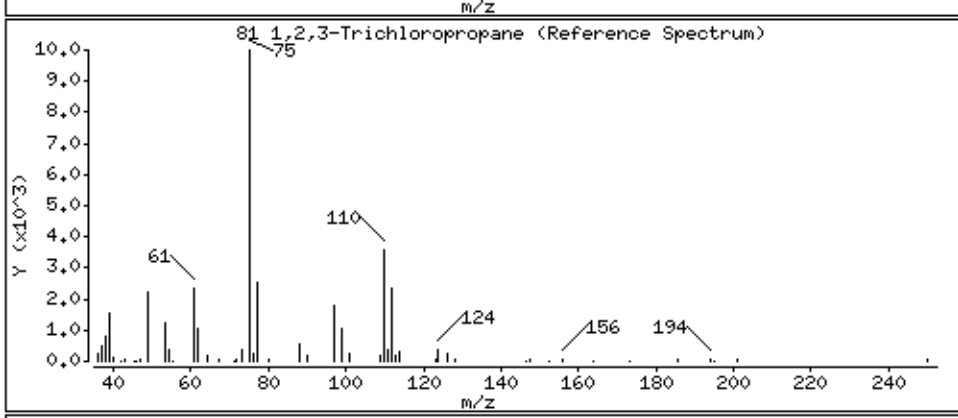
Column diameter: 0.18

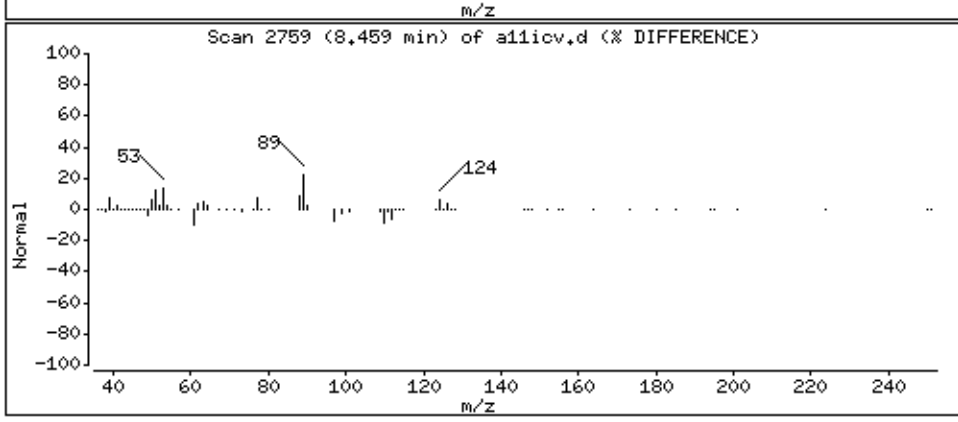
81 1,2,3-Trichloropropane

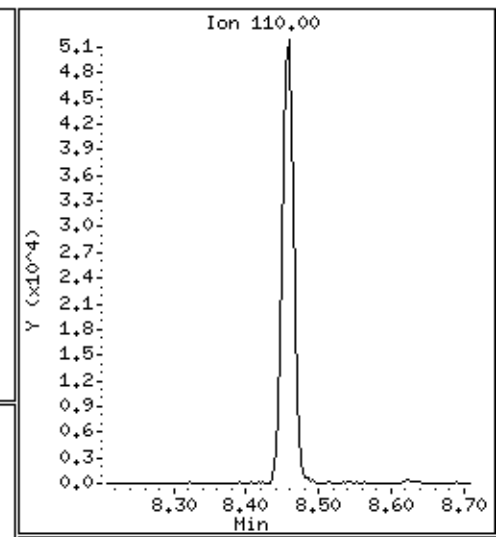
Concentration: 48.4 ppb

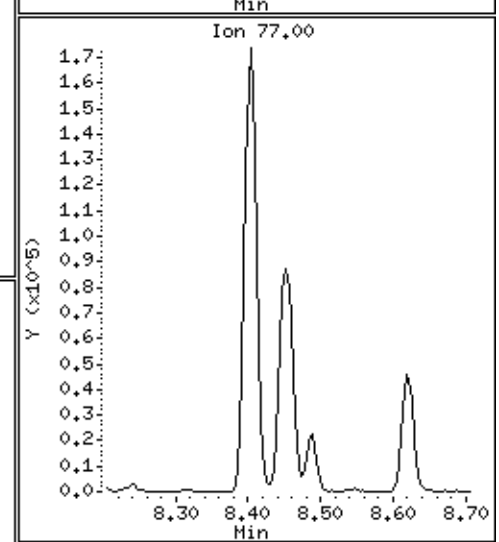


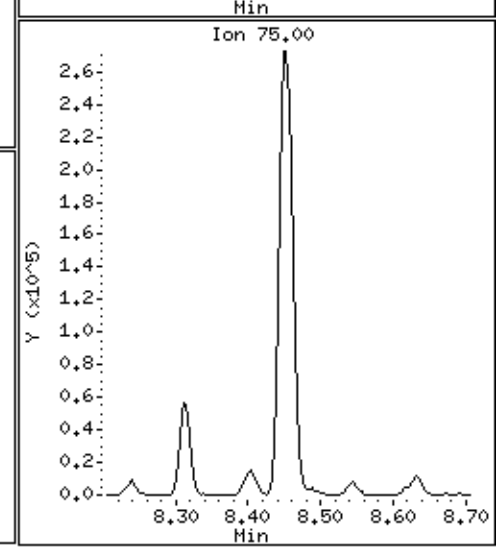












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

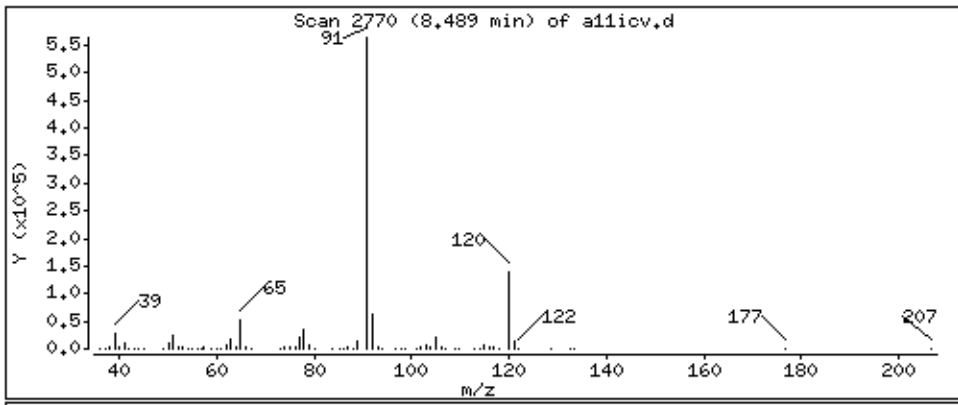
Operator: dae

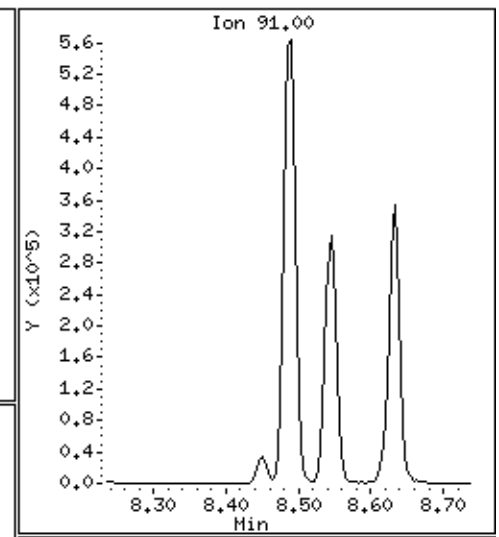
Column phase: DB-624

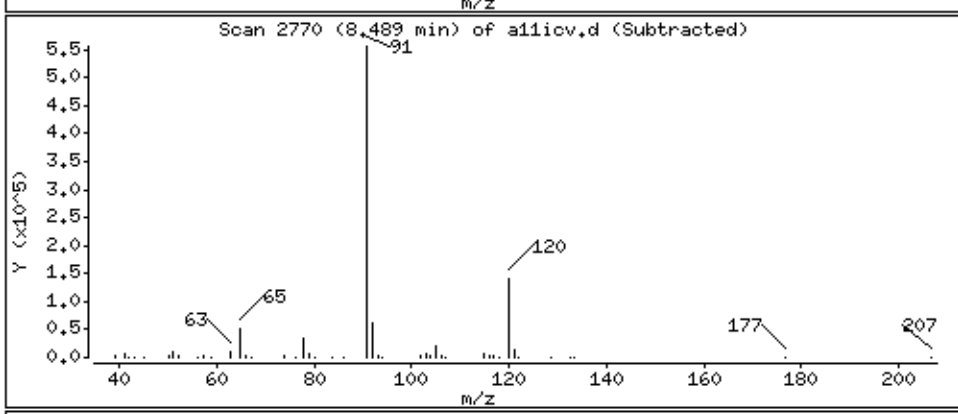
Column diameter: 0.18

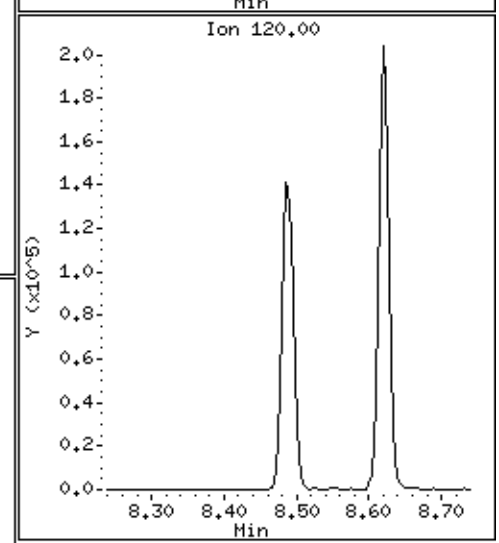
82 n-Propylbenzene

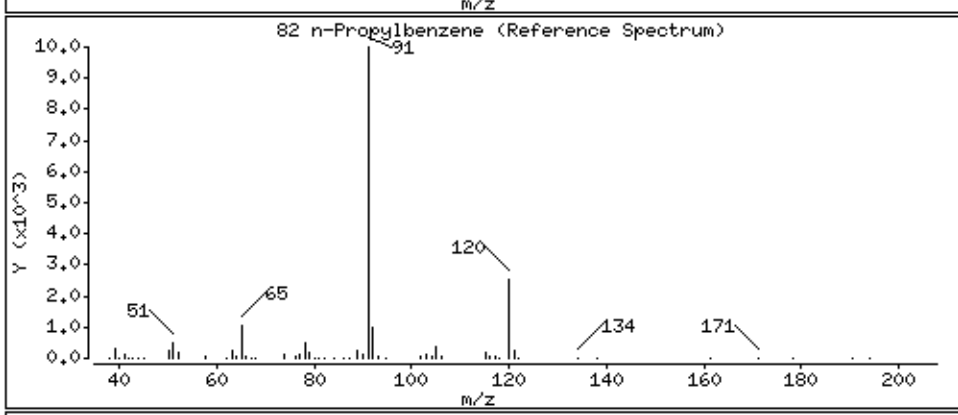
Concentration: 52.5 ppb

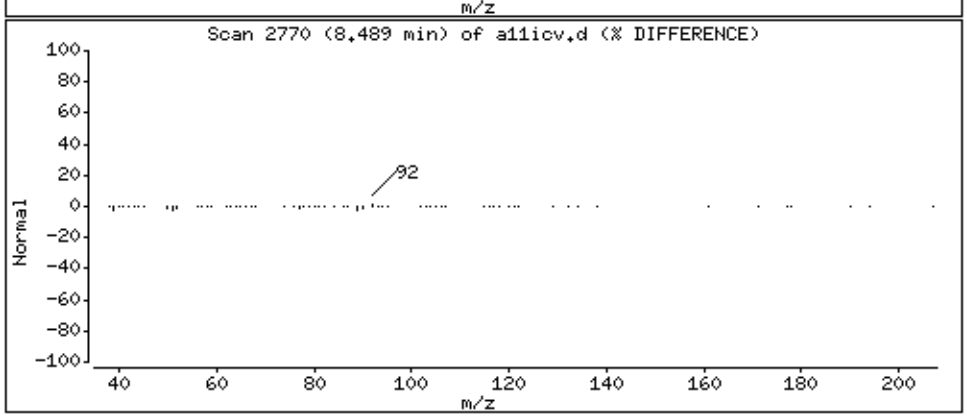












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

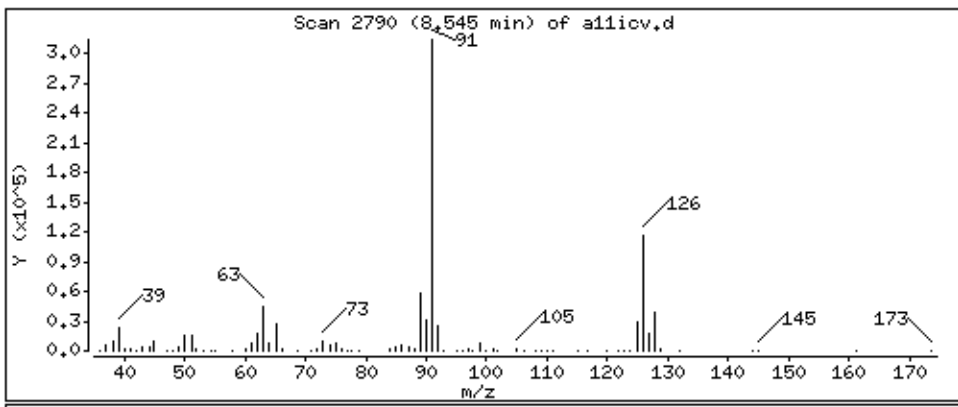
Operator: dae

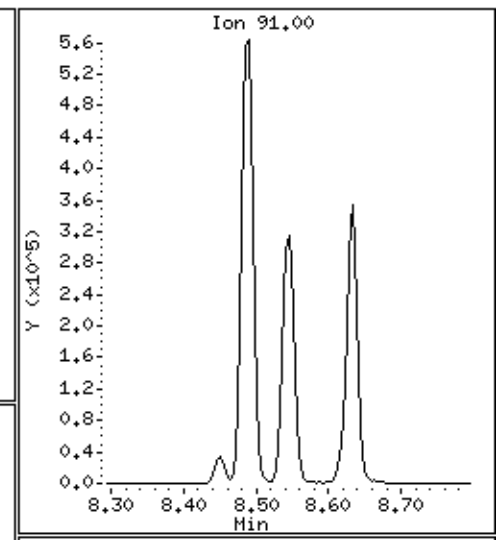
Column phase: DB-624

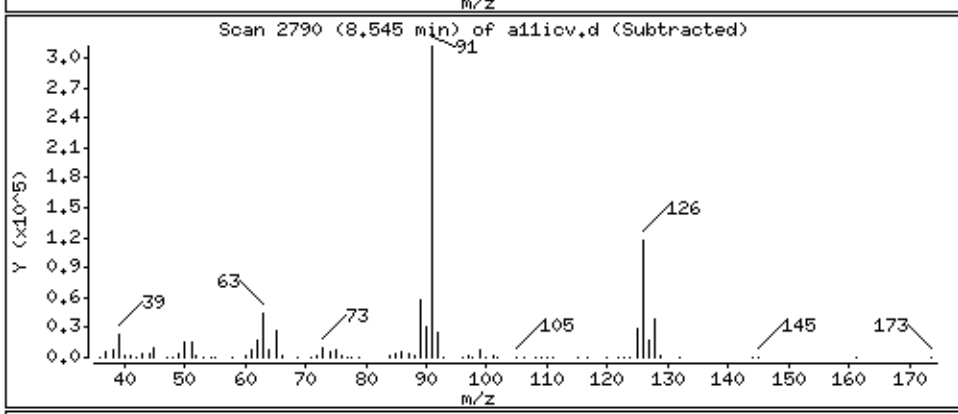
Column diameter: 0.18

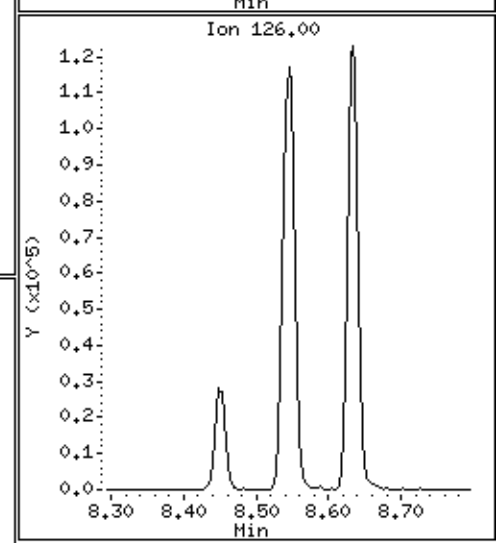
83 2-Chlorotoluene

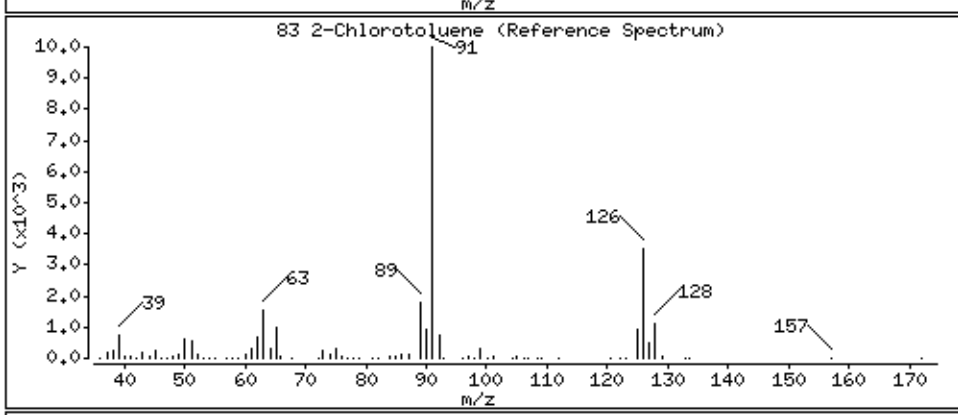
Concentration: 46.9 ppb

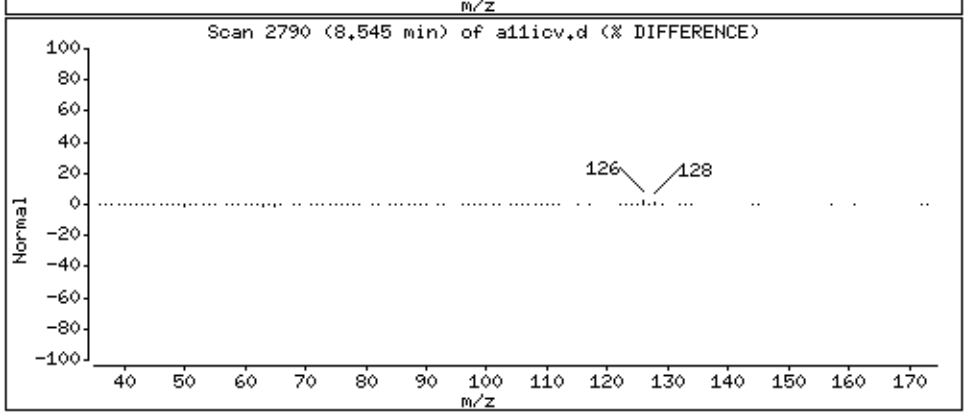












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

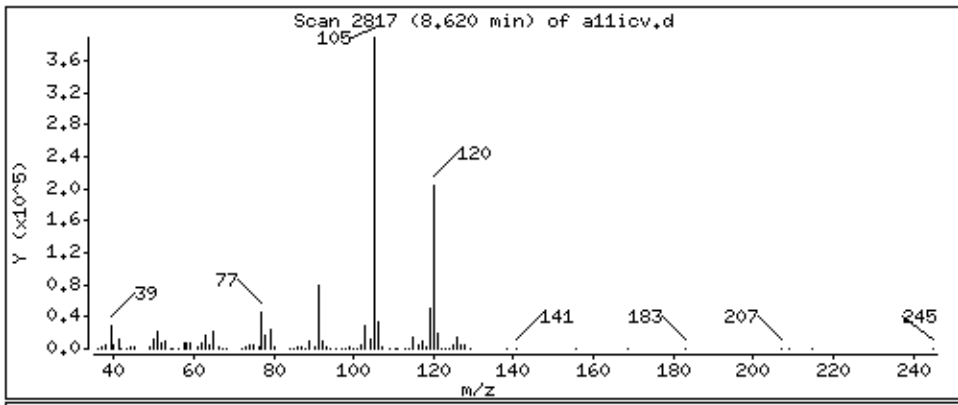
Operator: dae

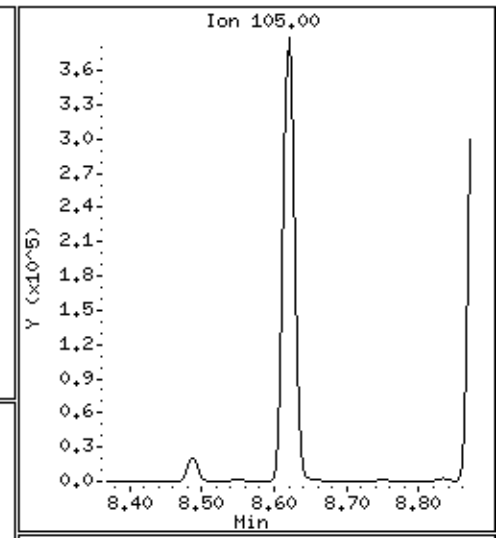
Column phase: DB-624

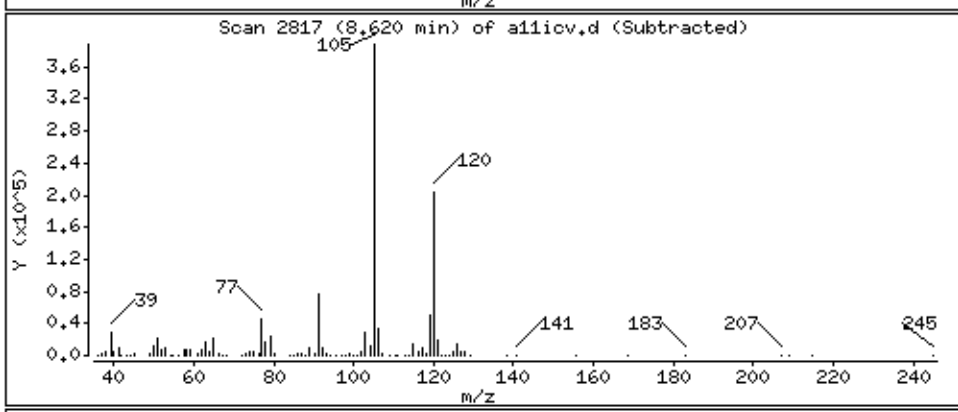
Column diameter: 0.18

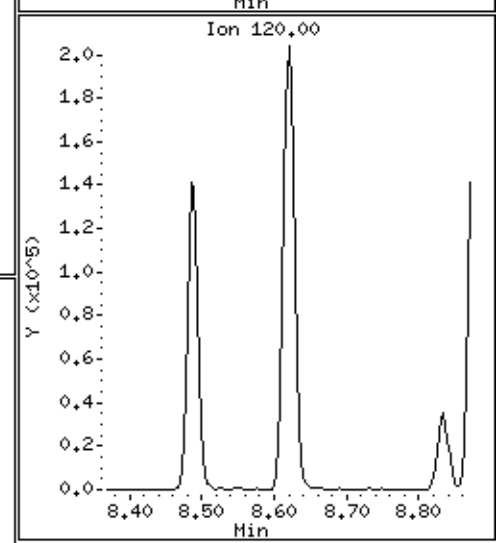
84 1,3,5-Trimethylbenzene

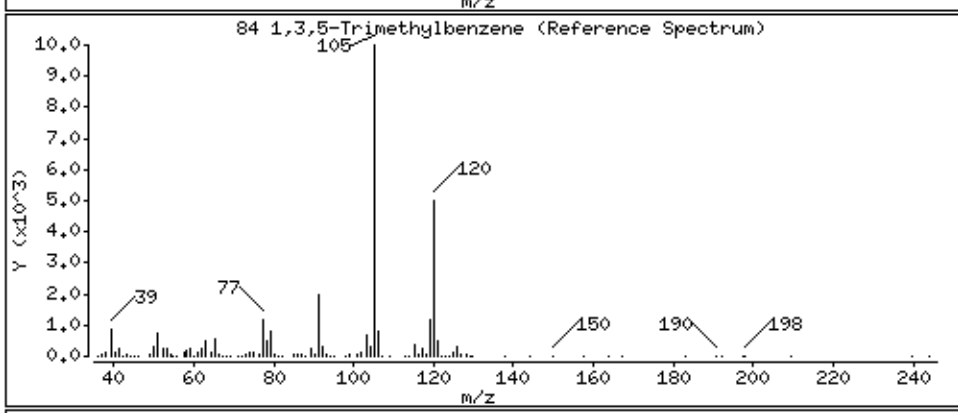
Concentration: 48.2 ppb

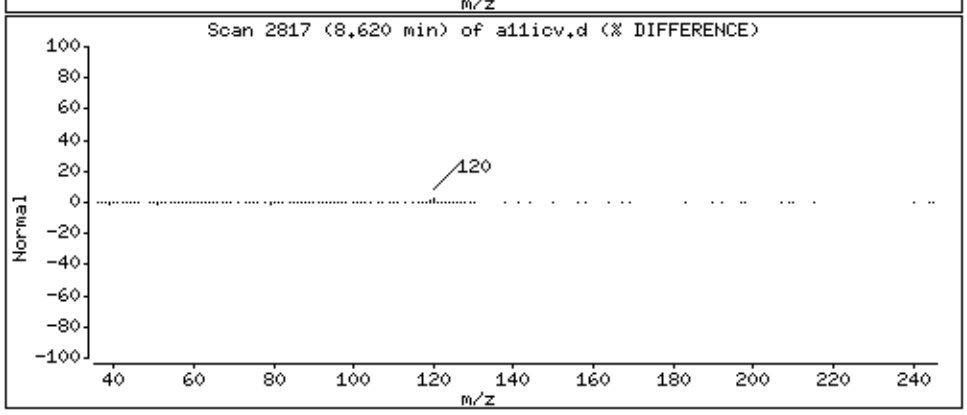












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

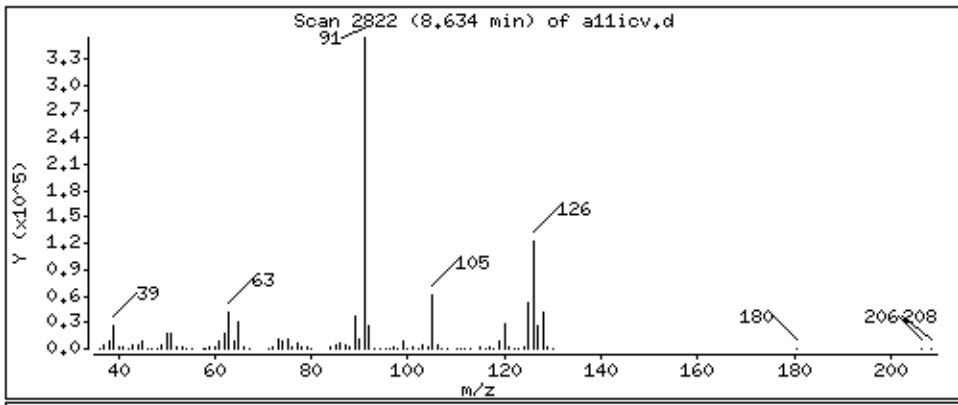
Operator: dae

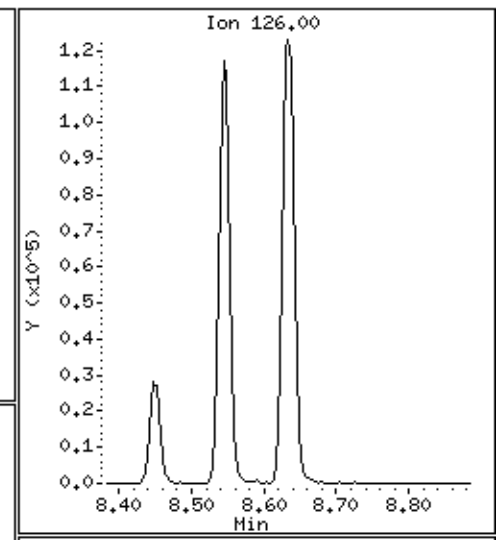
Column phase: DB-624

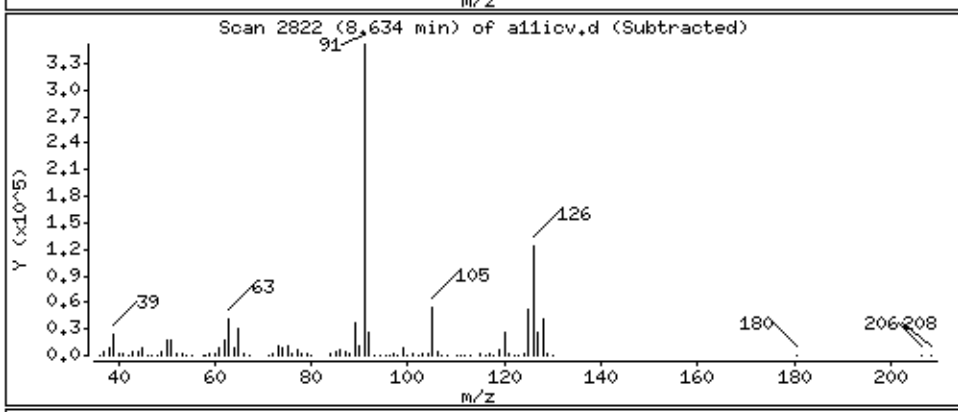
Column diameter: 0.18

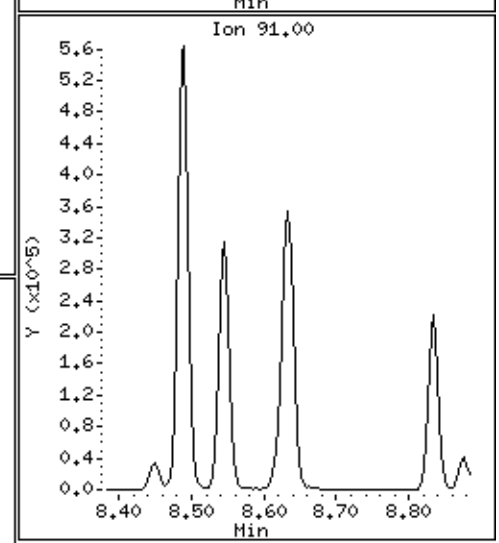
85 4-Chlorotoluene

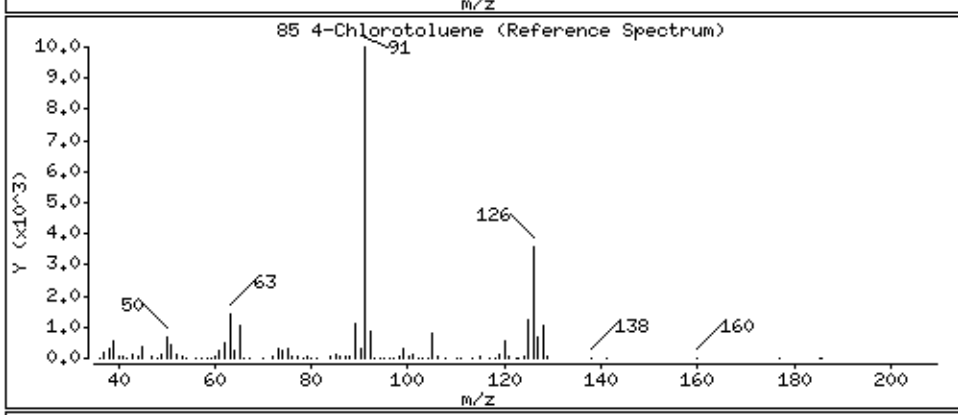
Concentration: 49.8 ppb

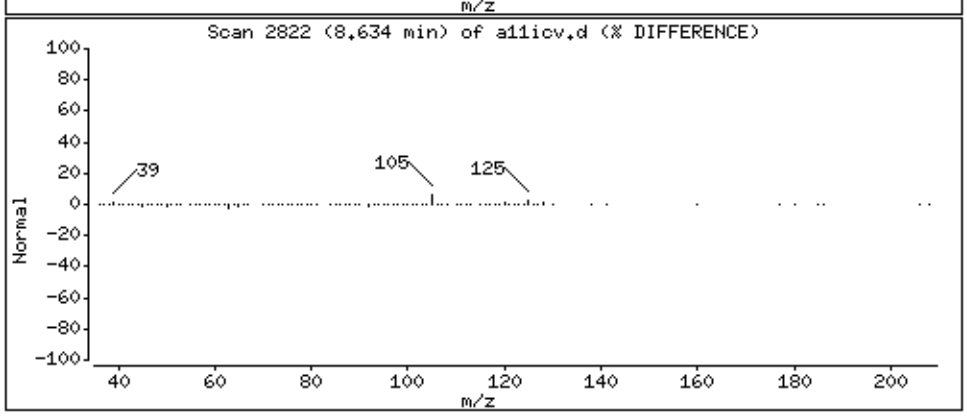












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

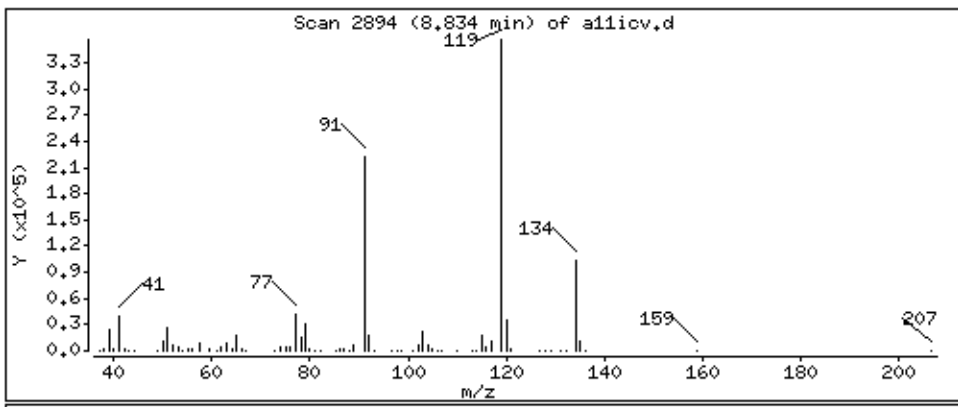
Operator: dae

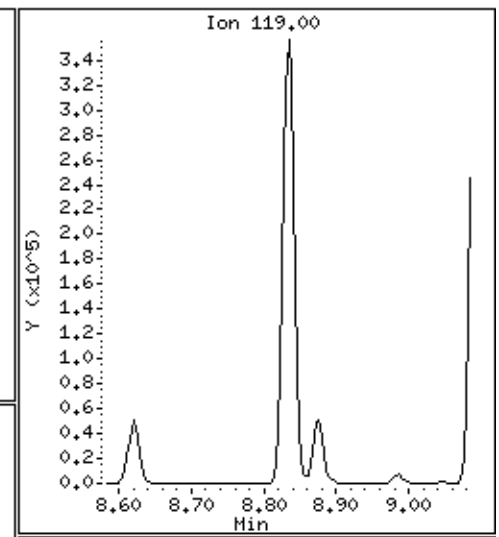
Column phase: DB-624

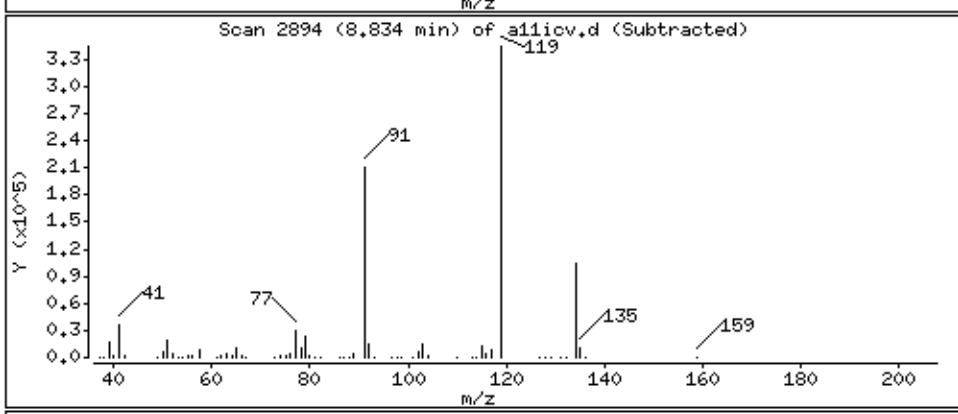
Column diameter: 0.18

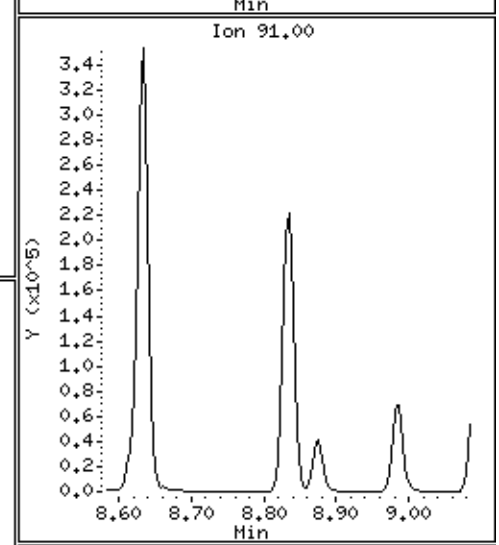
86 tert-Butylbenzene

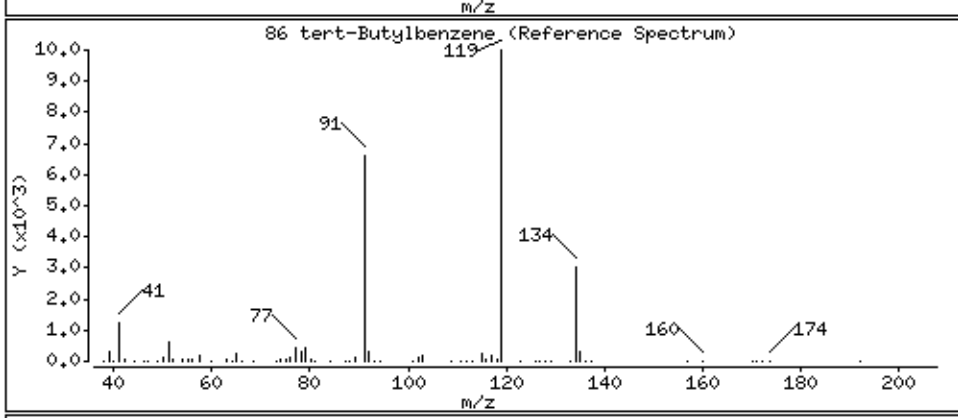
Concentration: 41.8 ppb

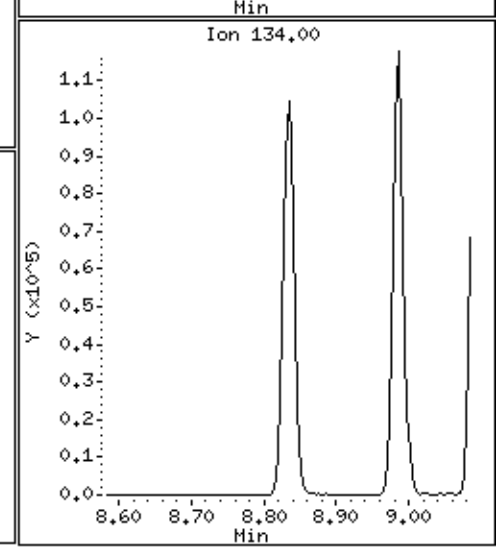


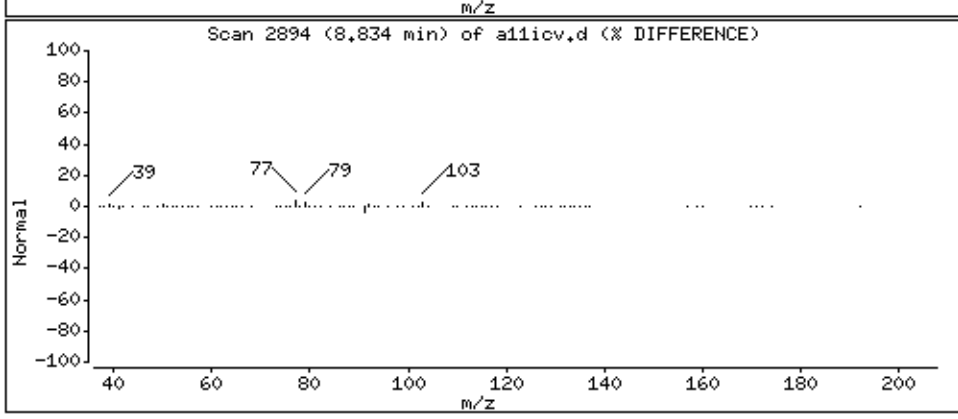












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

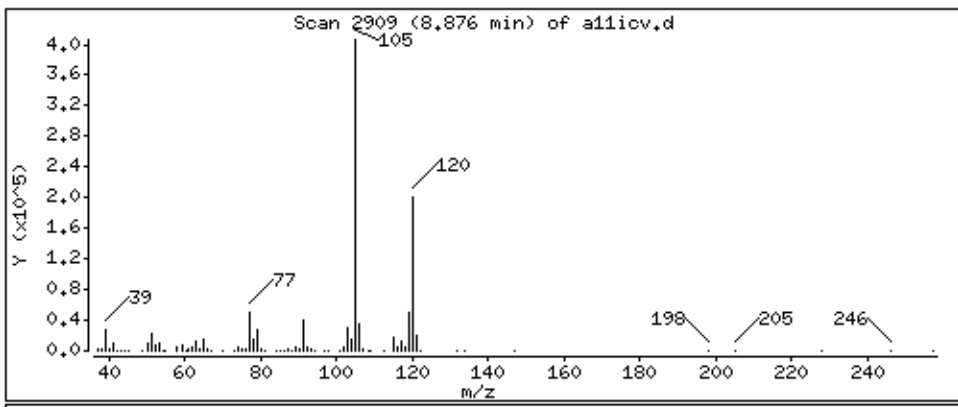
Operator: dae

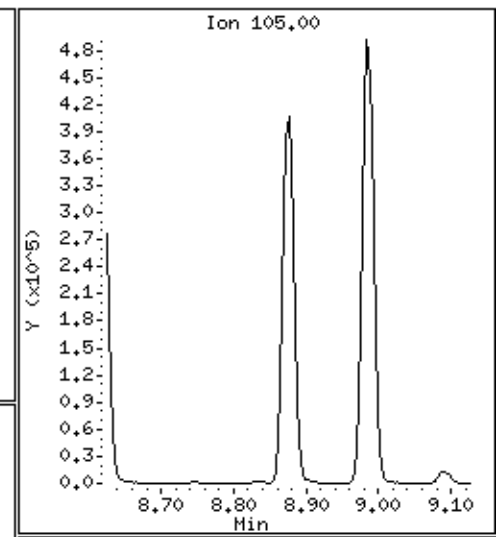
Column phase: DB-624

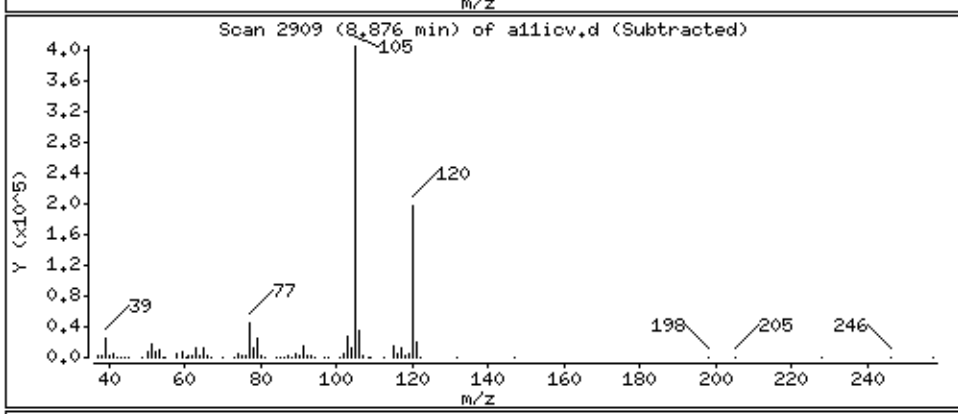
Column diameter: 0.18

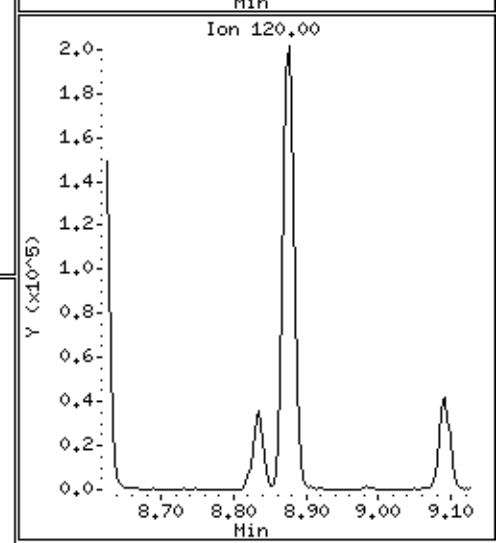
87 1,2,4-Trimethylbenzene

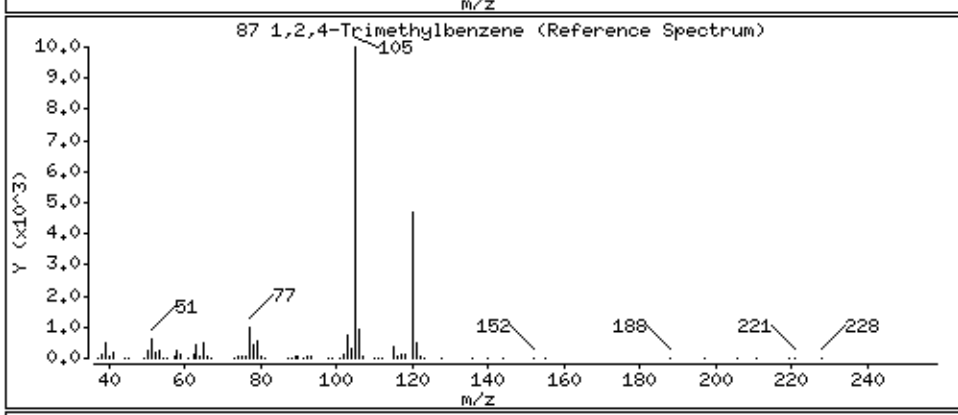
Concentration: 48.5 ppb

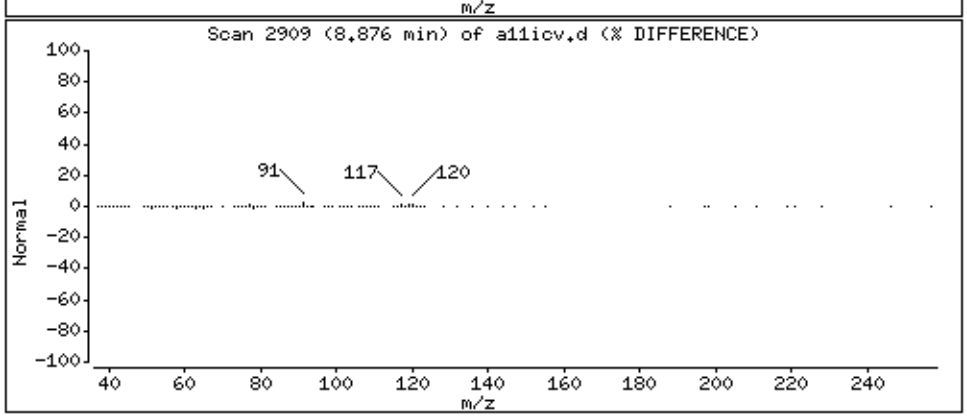












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

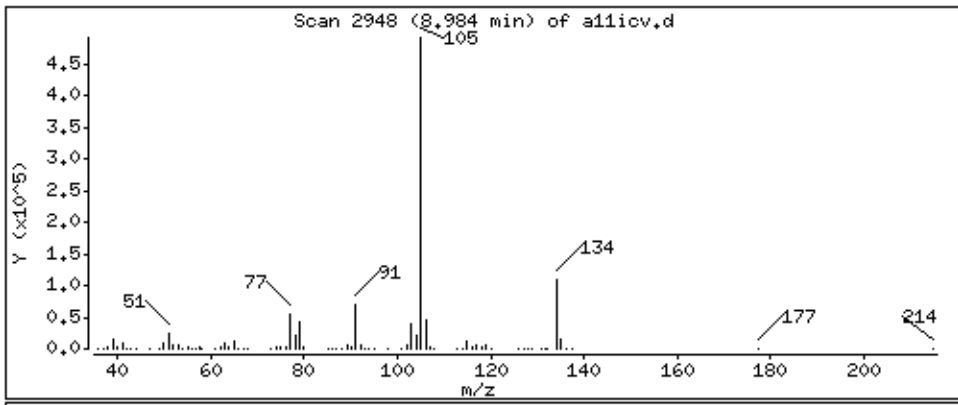
Operator: dae

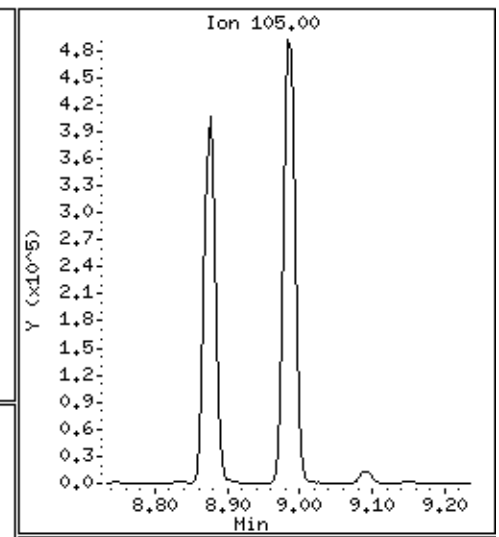
Column phase: DB-624

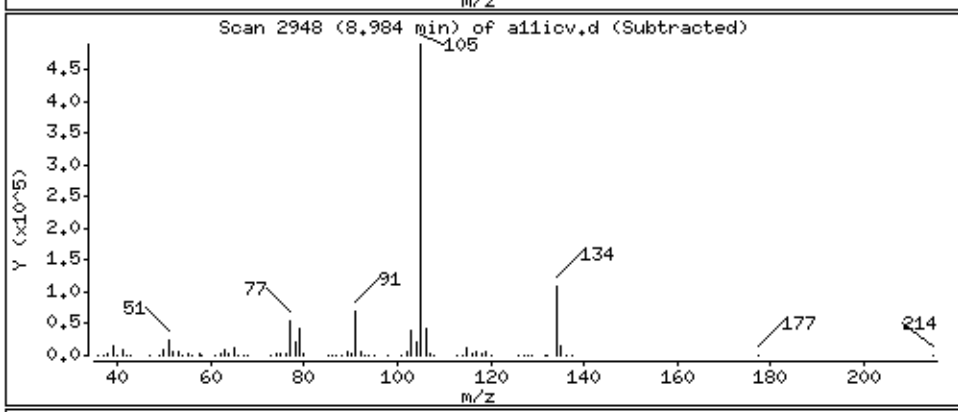
Column diameter: 0.18

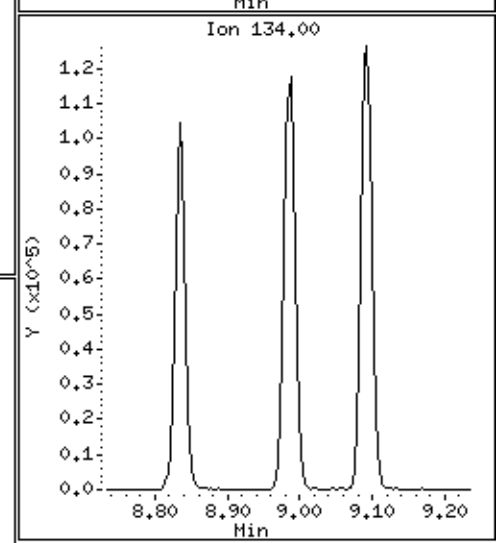
88 sec-Butylbenzene

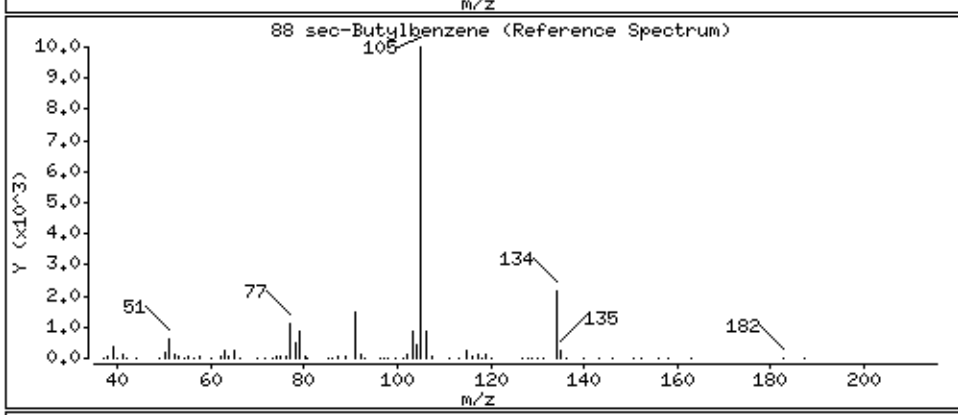
Concentration: 50.0 ppb

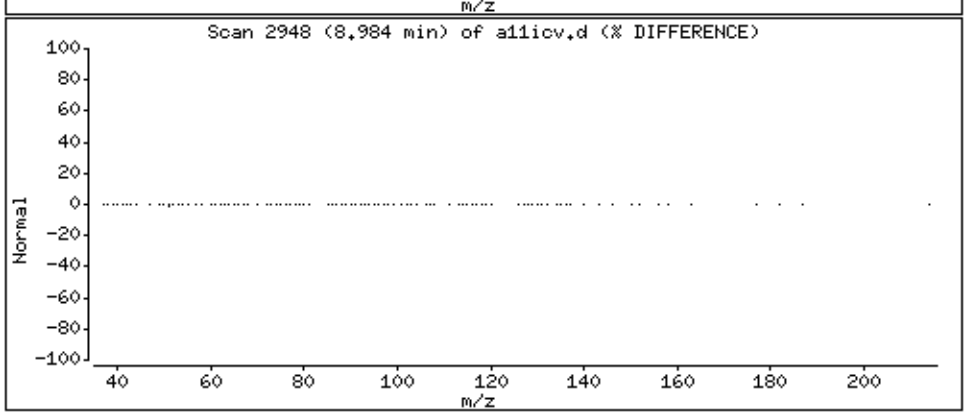












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

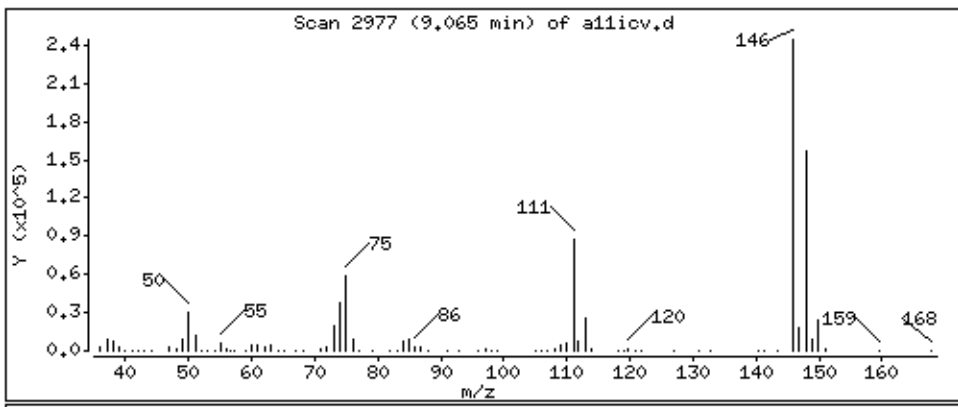
Operator: dae

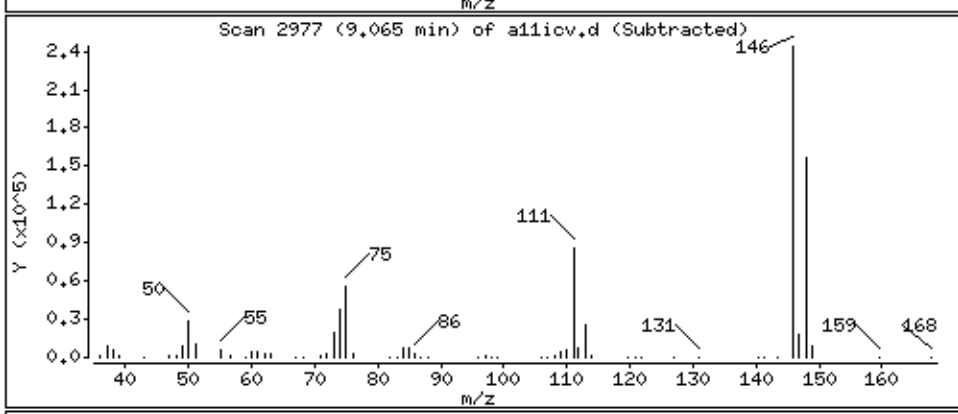
Column phase: DB-624

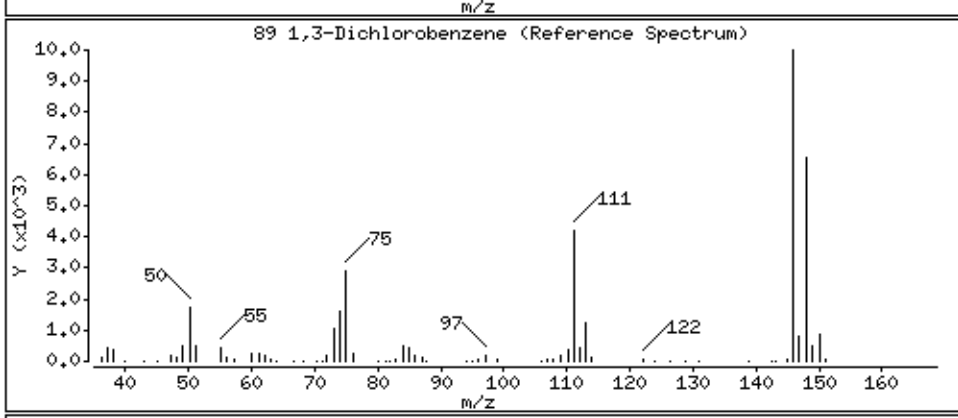
Column diameter: 0.18

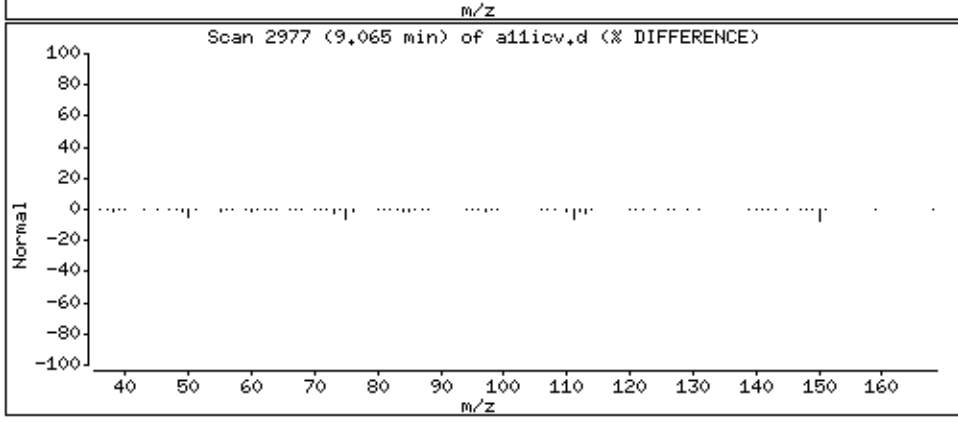
89 1,3-Dichlorobenzene

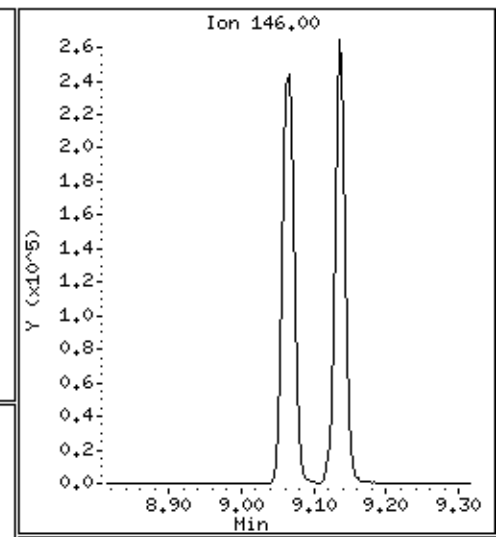
Concentration: 49.0 ppb

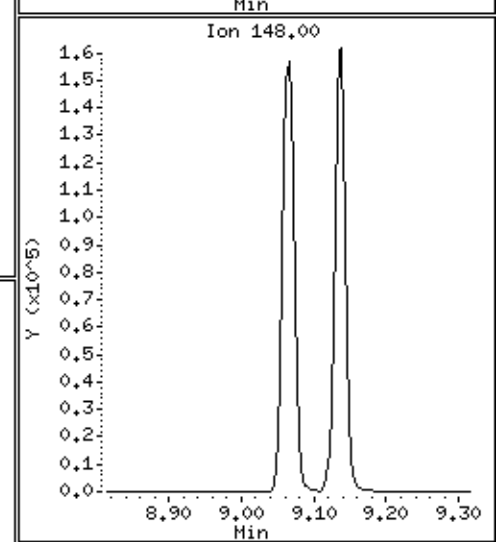


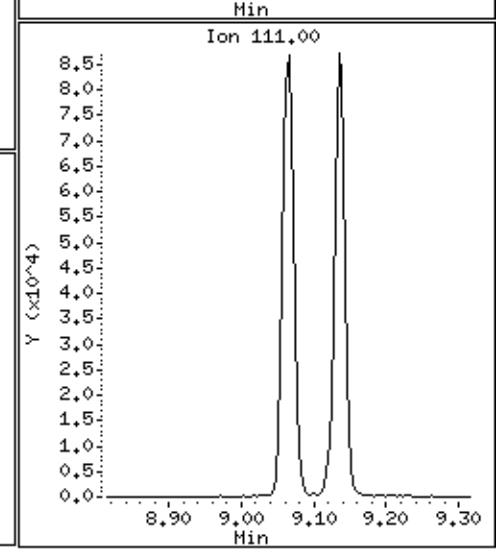












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

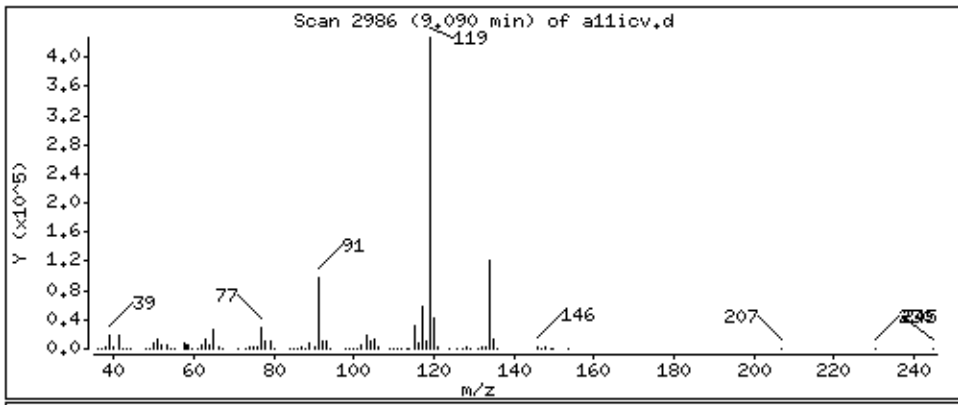
Operator: dae

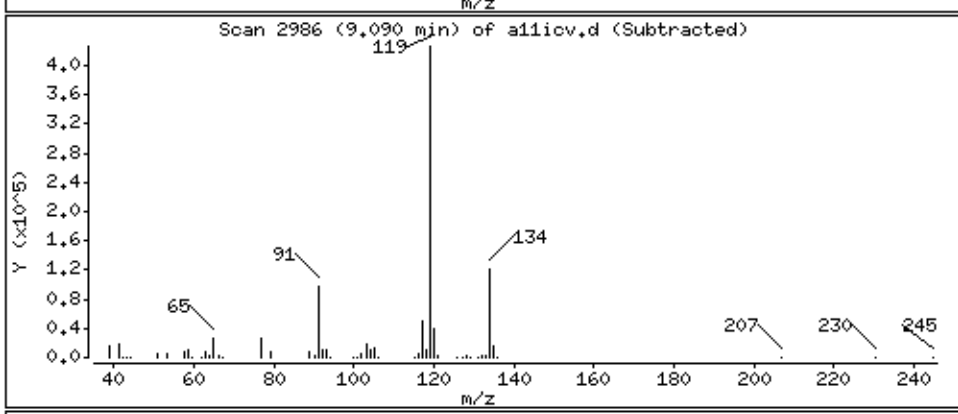
Column phase: DB-624

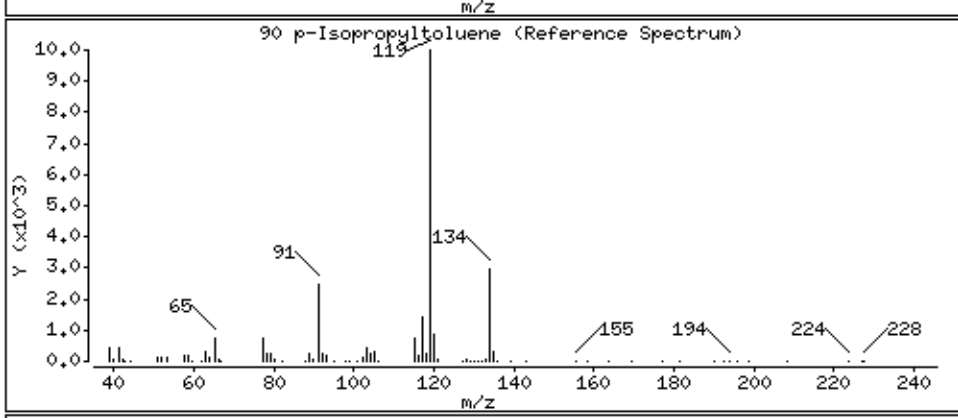
Column diameter: 0.18

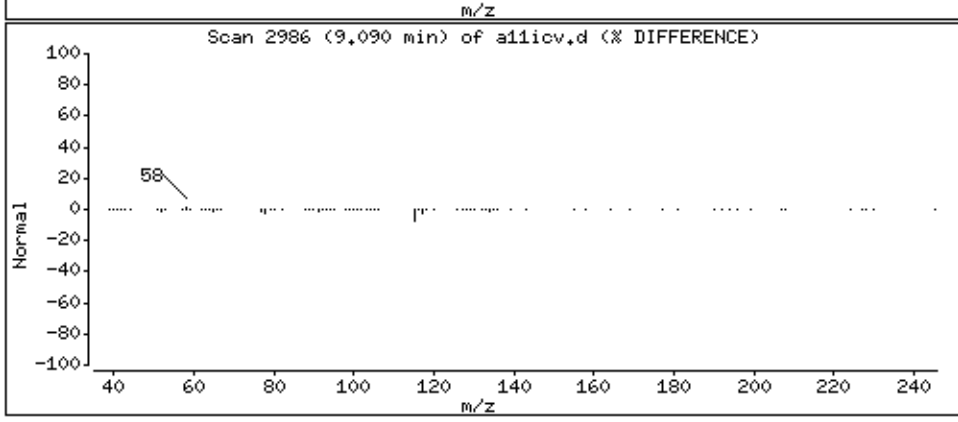
90 p-Isopropyltoluene

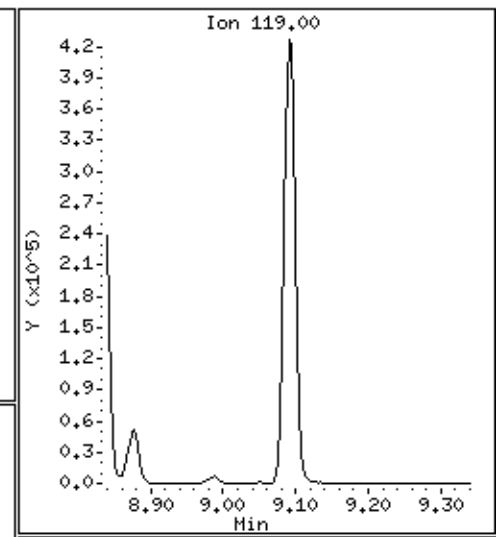
Concentration: 50.8 ppb

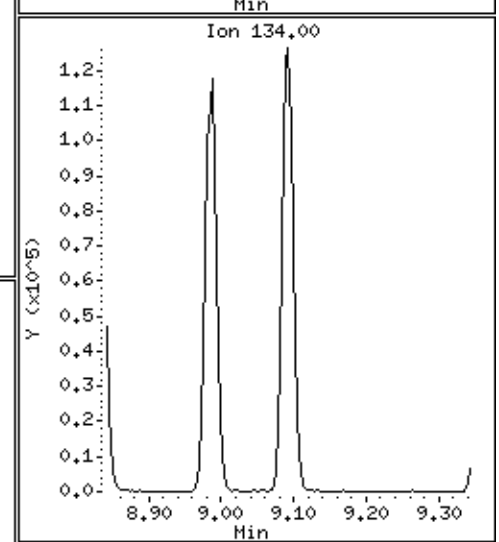


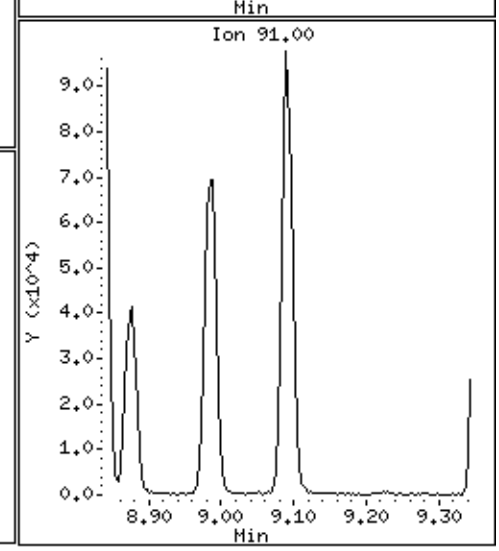












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

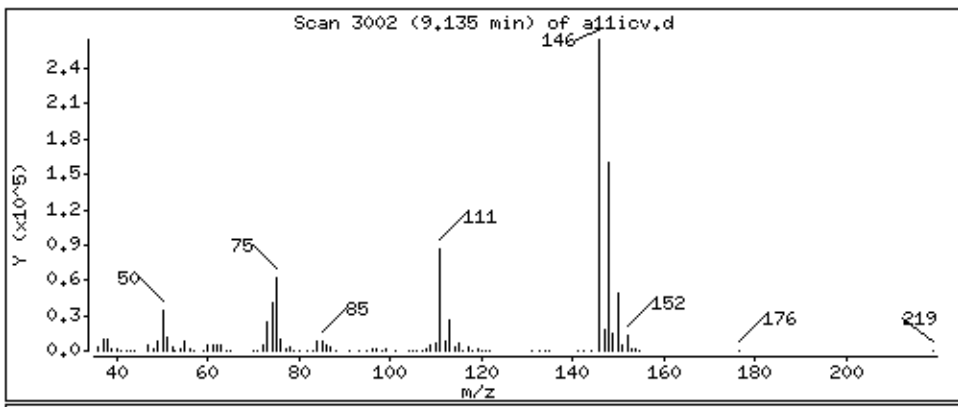
Operator: dae

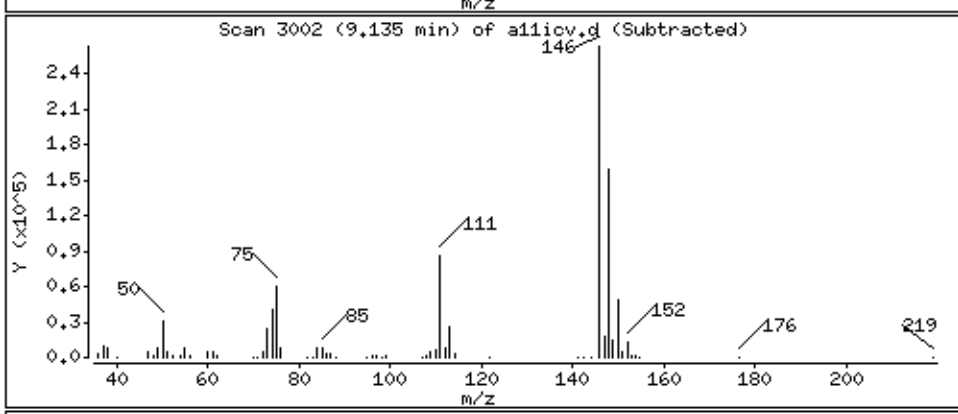
Column phase: DB-624

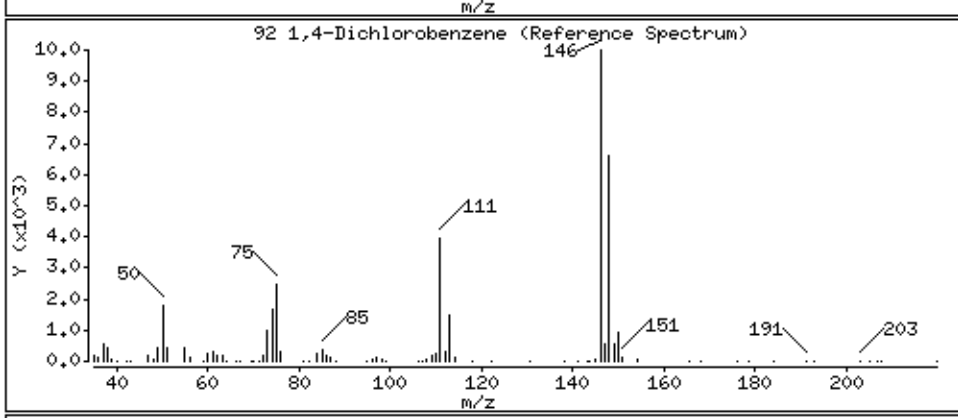
Column diameter: 0.18

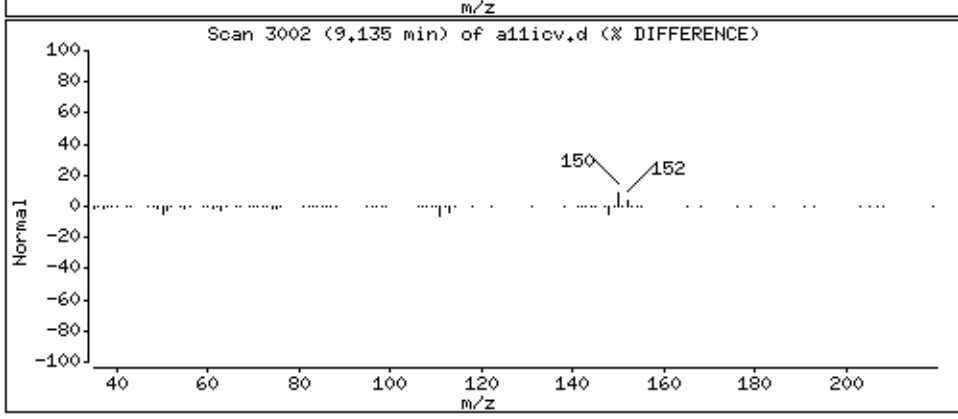
92 1,4-Dichlorobenzene

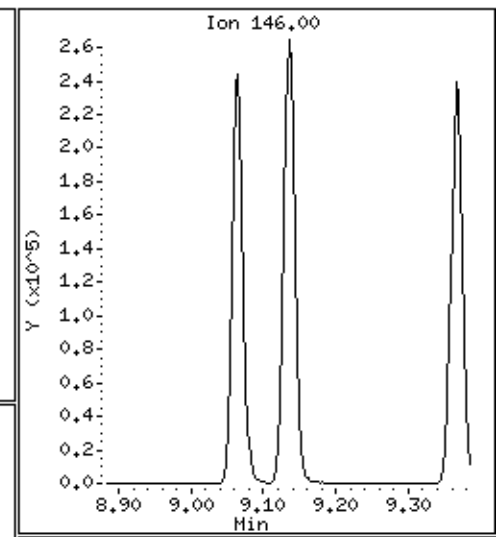
Concentration: 45.9 ppb

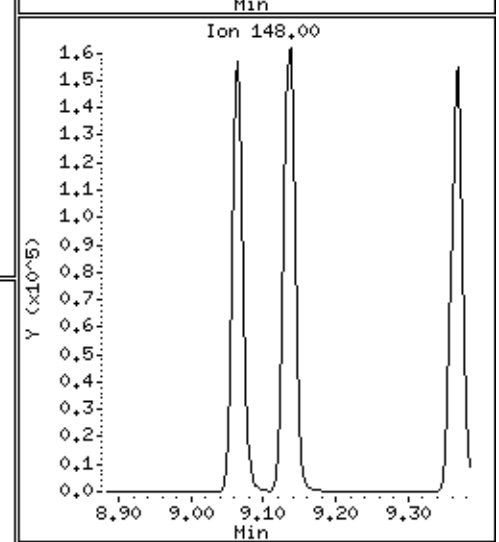


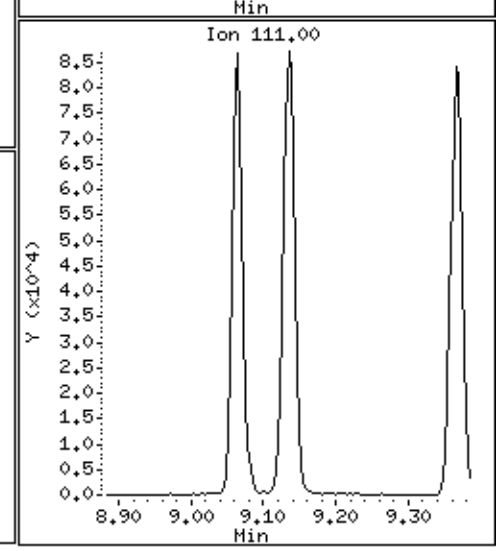












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

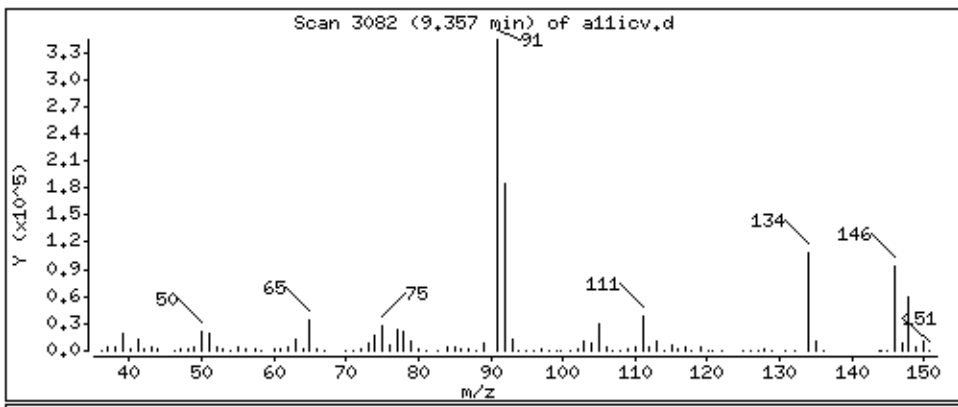
Operator: dae

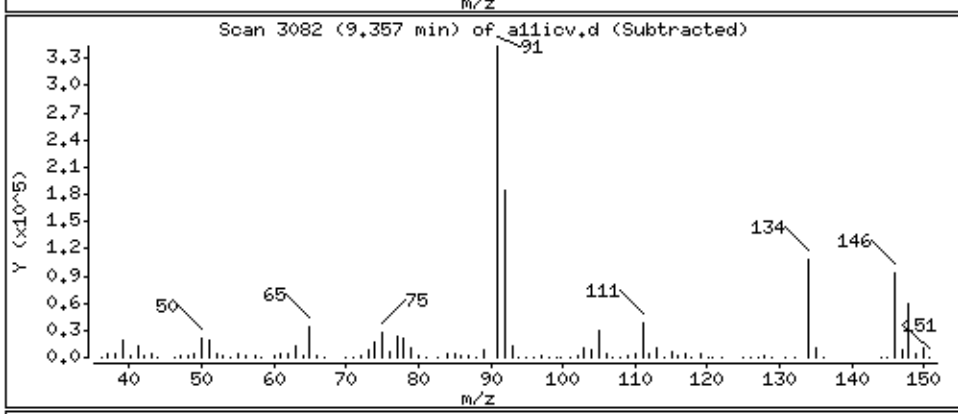
Column phase: DB-624

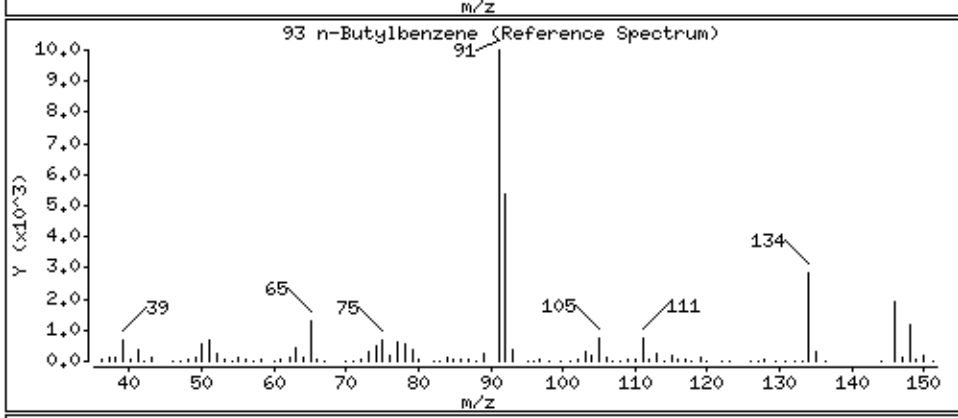
Column diameter: 0.18

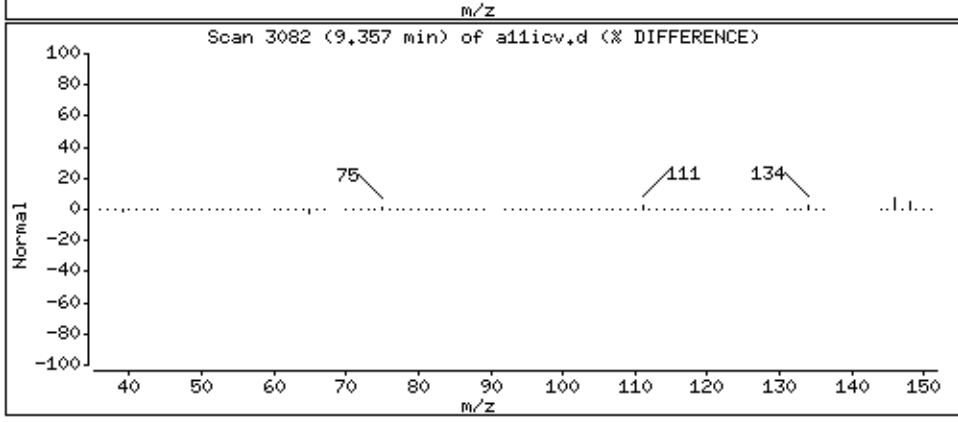
93 n-Butylbenzene

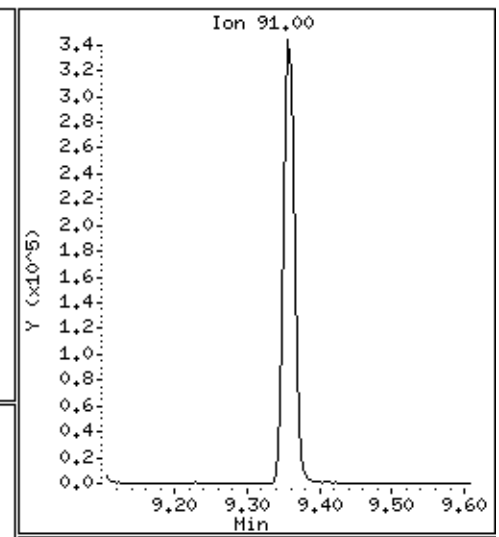
Concentration: 48.2 ppb

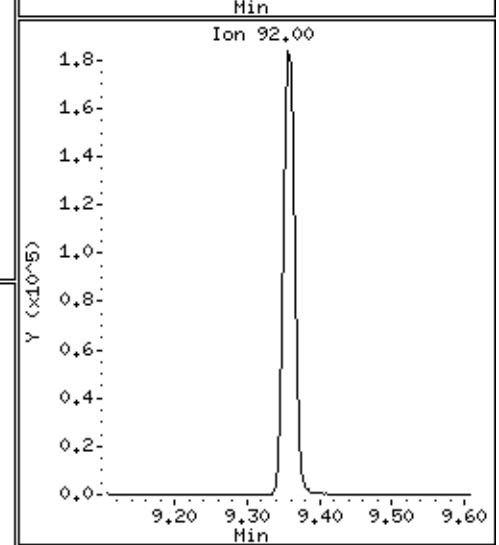


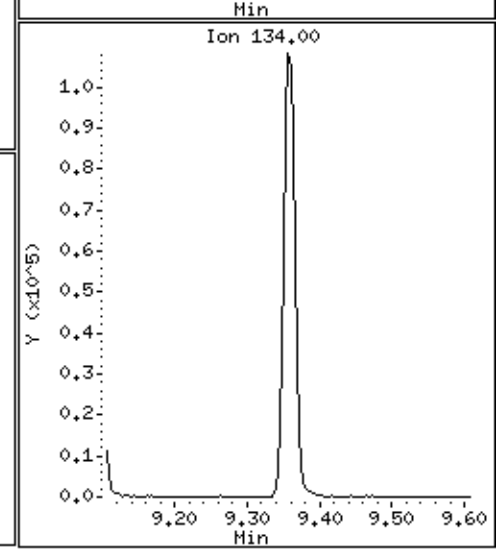












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

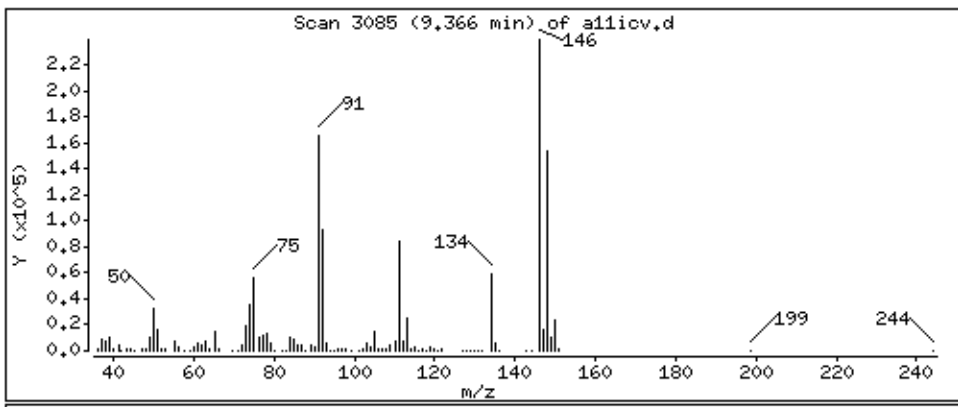
Operator: dae

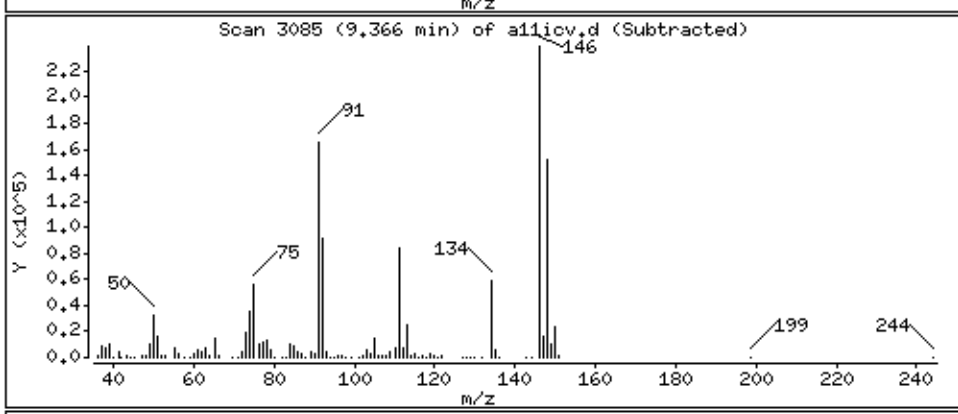
Column phase: DB-624

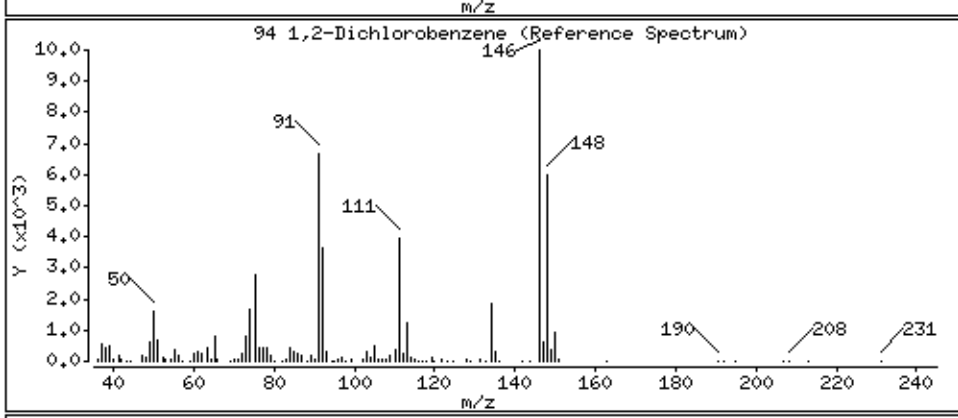
Column diameter: 0.18

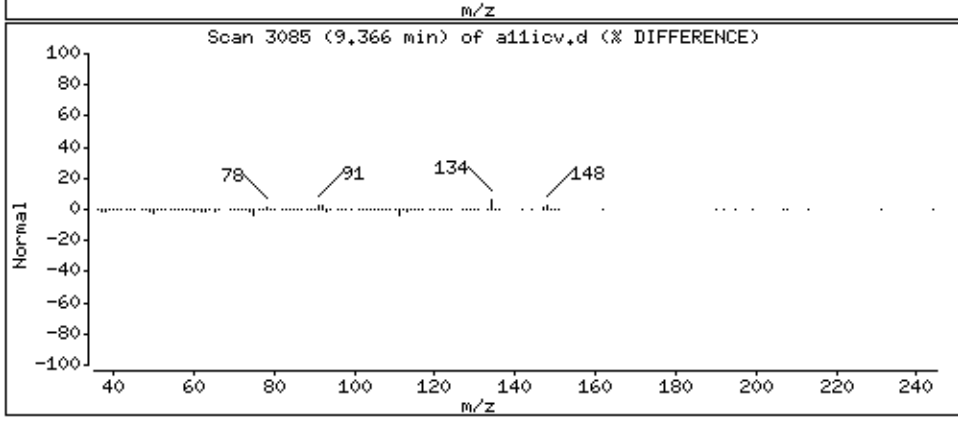
94 1,2-Dichlorobenzene

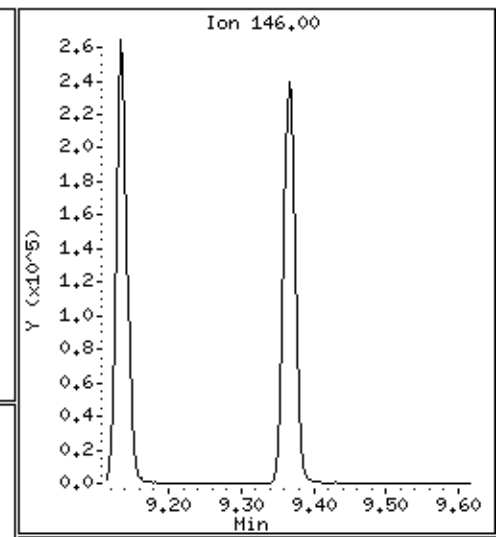
Concentration: 49.6 ppb

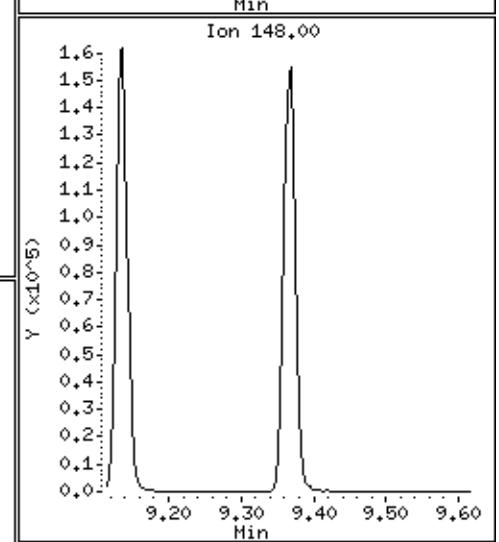


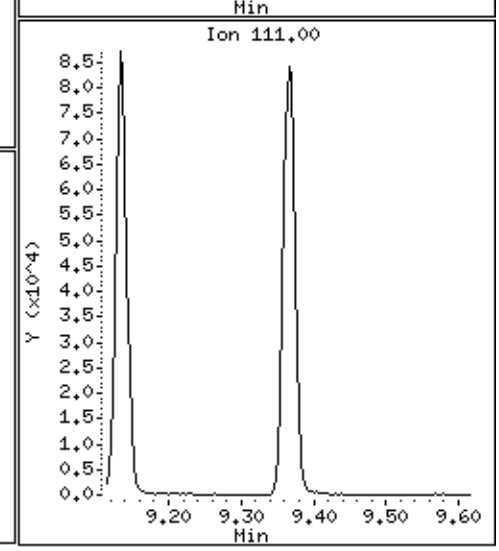












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

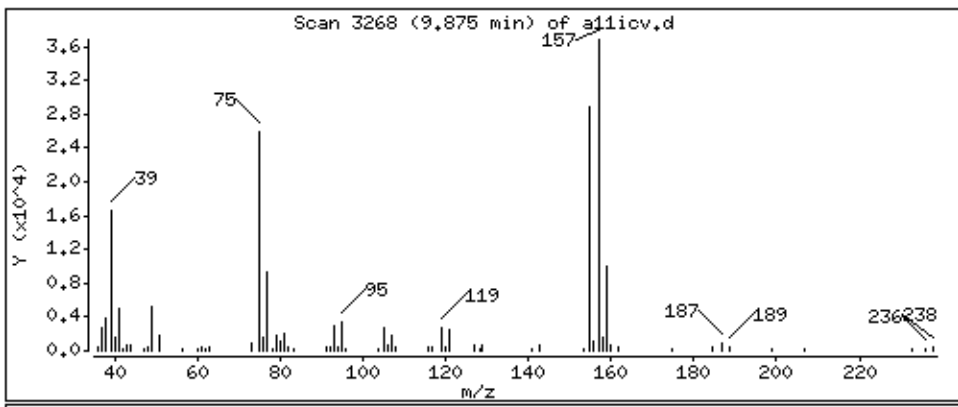
Operator: dae

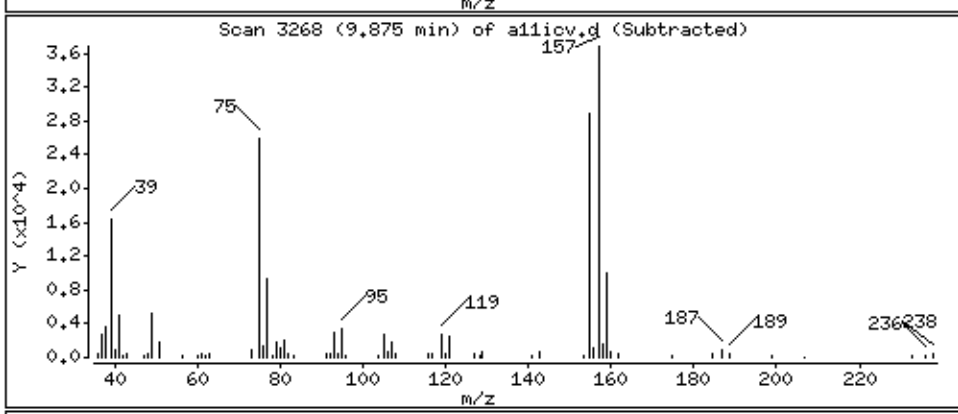
Column phase: DB-624

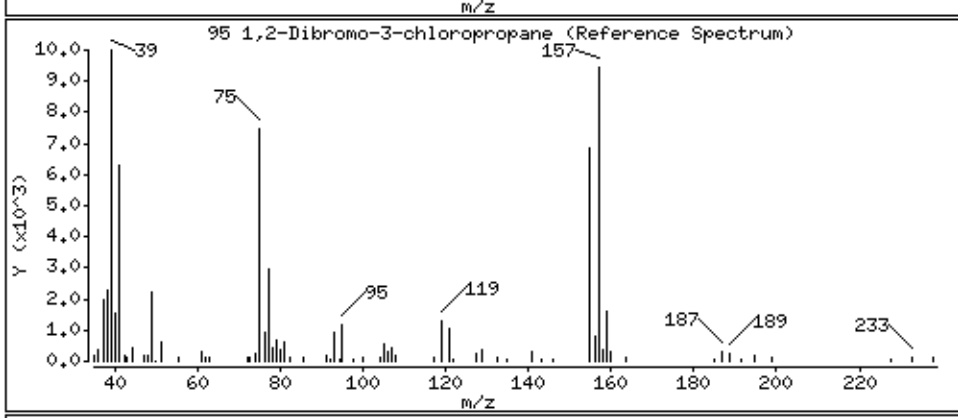
Column diameter: 0.18

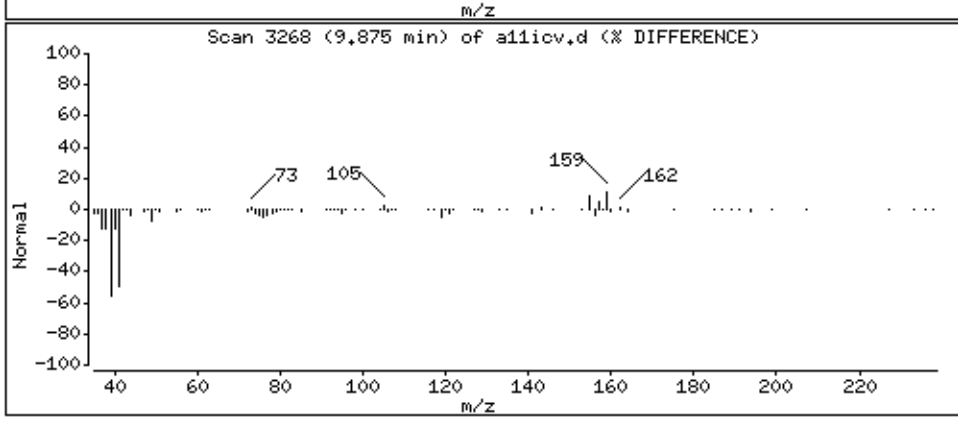
95 1,2-Dibromo-3-chloropropane

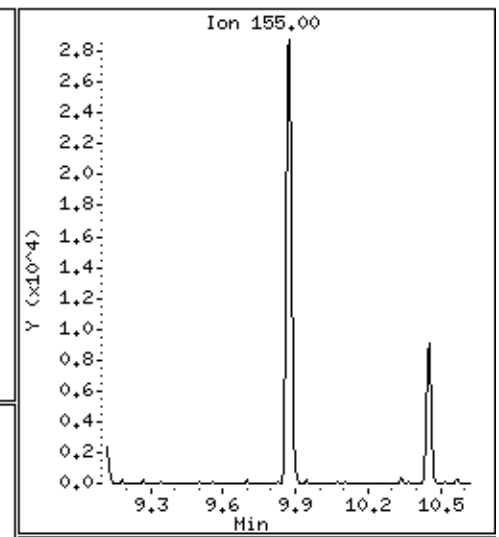
Concentration: 48.2 ppb

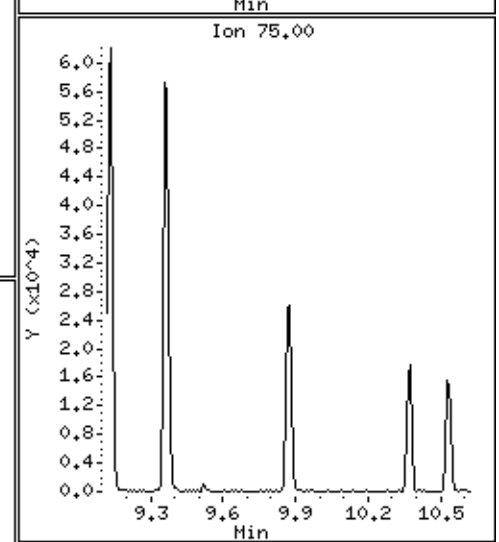


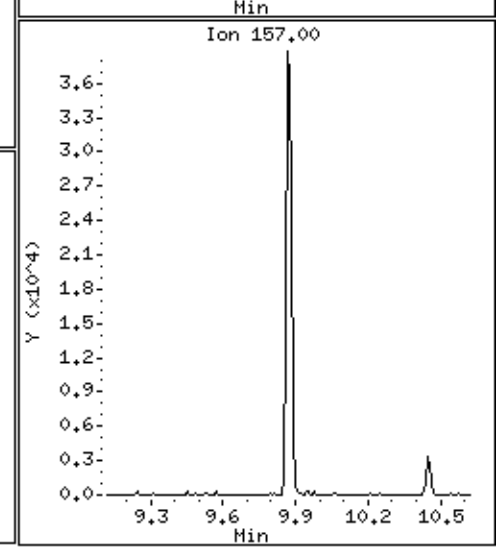












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

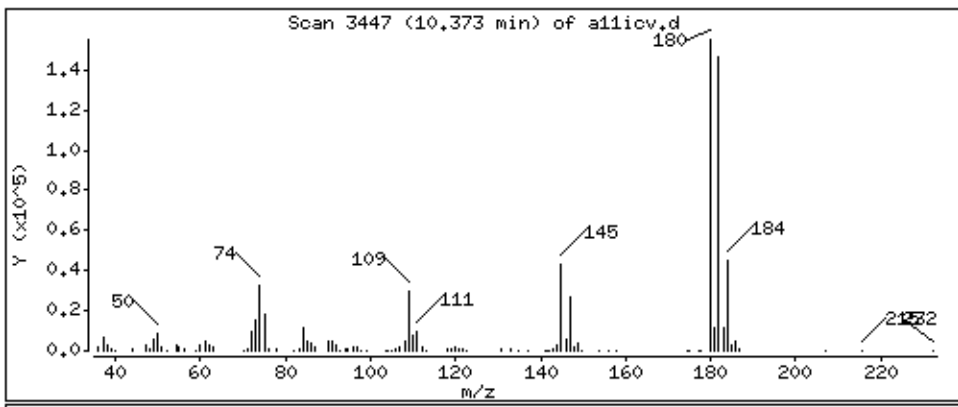
Operator: dae

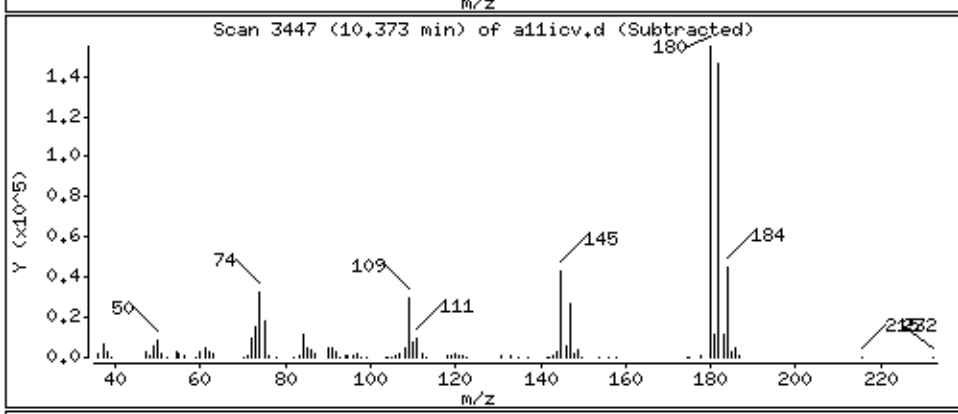
Column phase: DB-624

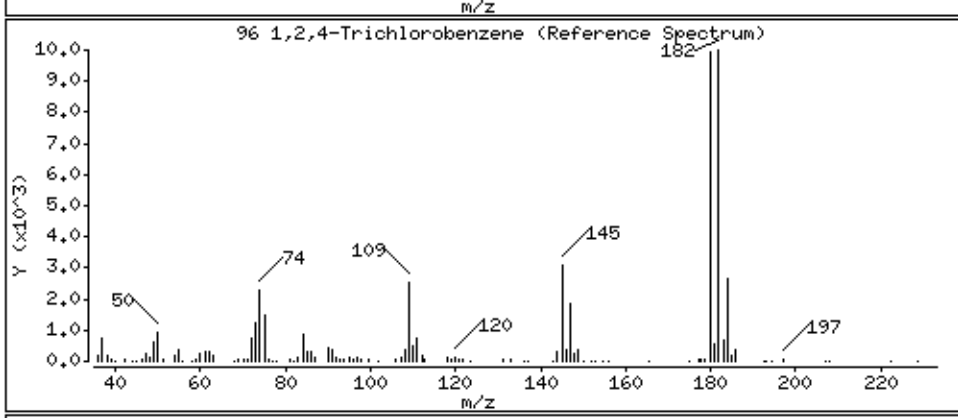
Column diameter: 0.18

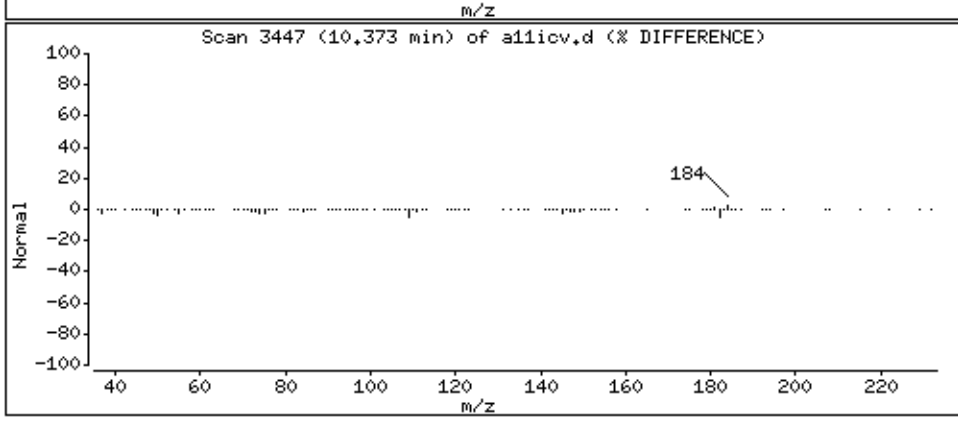
96 1,2,4-Trichlorobenzene

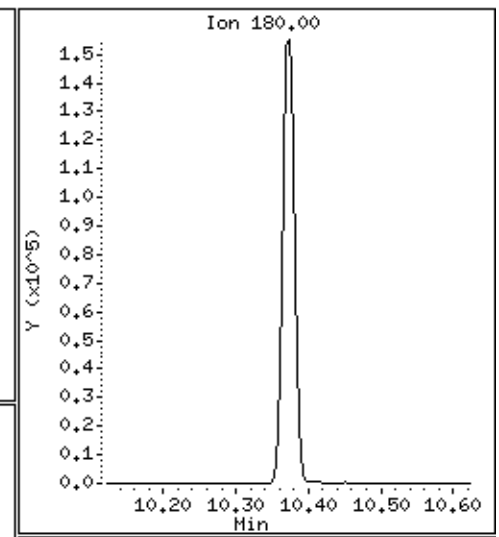
Concentration: 50.6 ppb

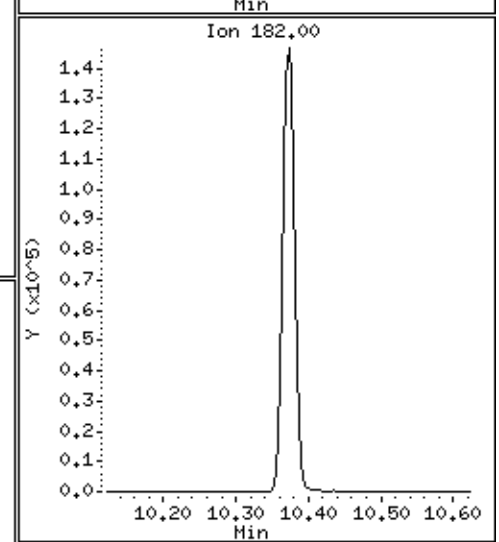


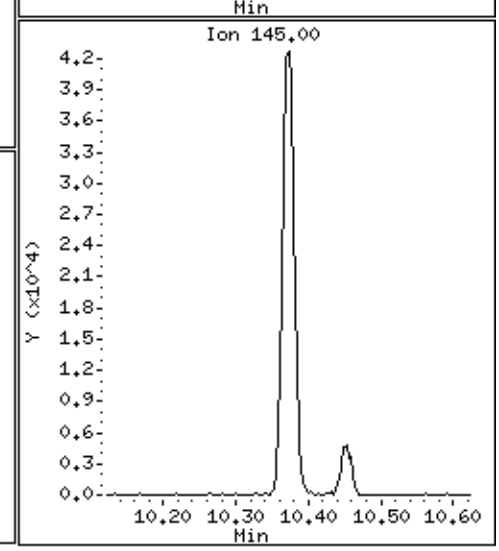












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Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

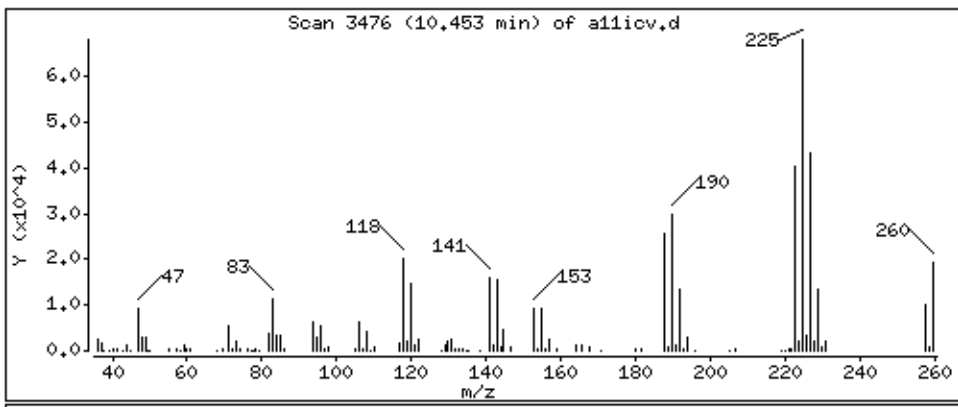
Operator: dae

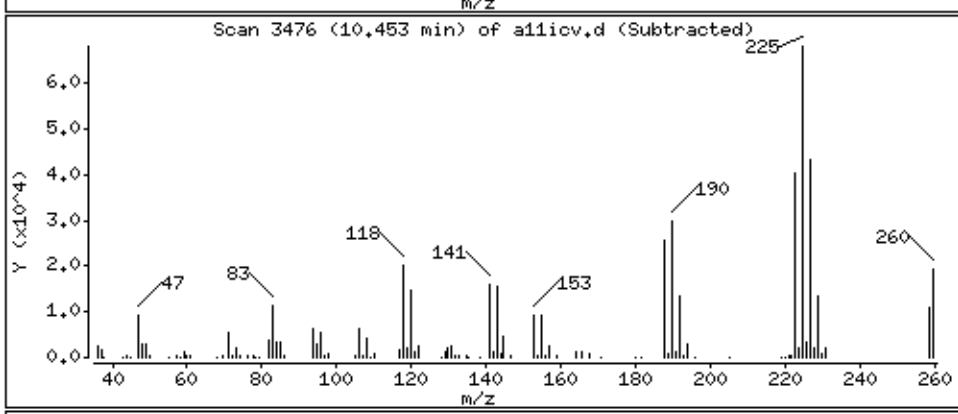
Column phase: DB-624

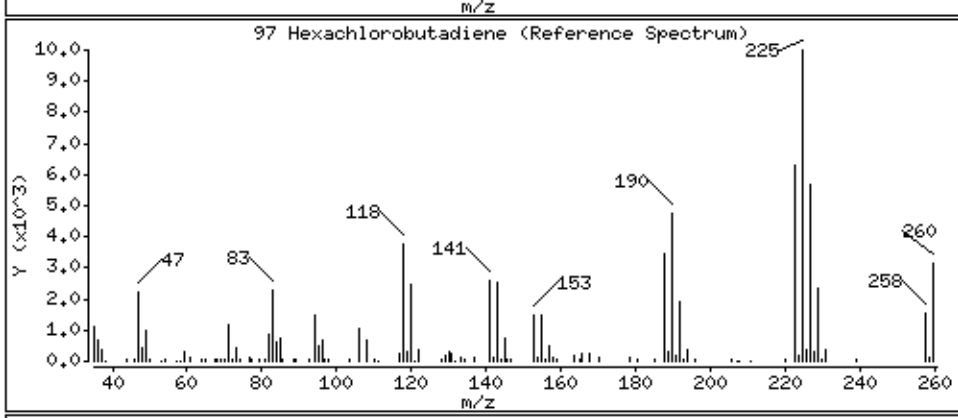
Column diameter: 0.18

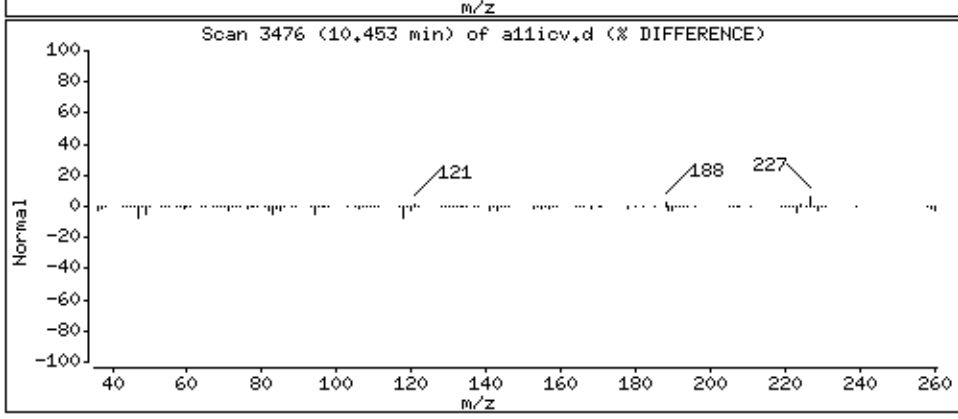
97 Hexachlorobutadiene

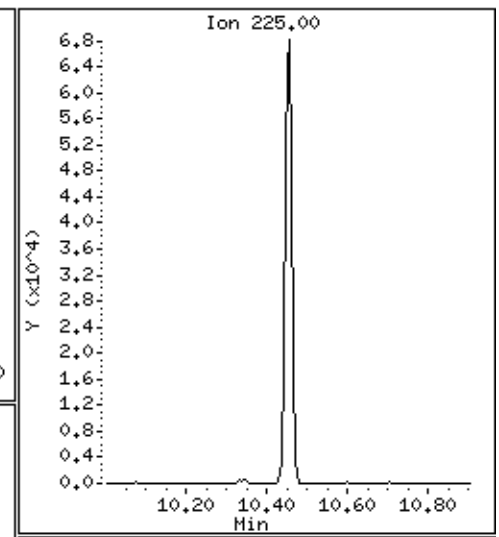
Concentration: 53.0 ppb

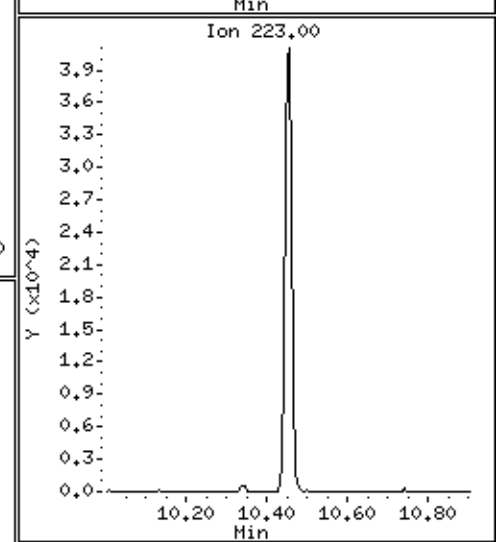


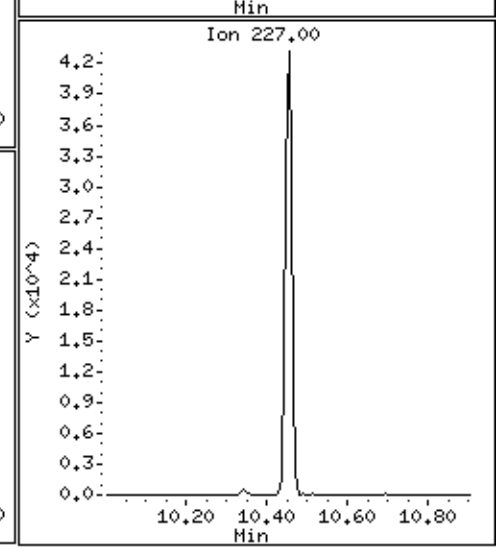












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

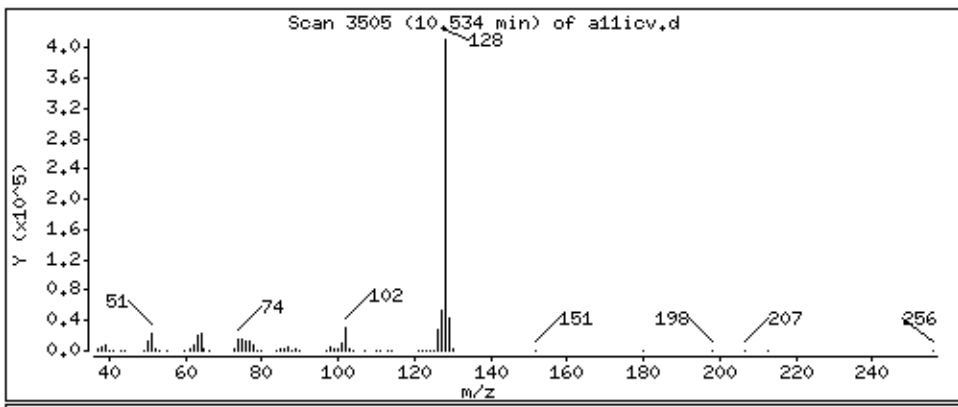
Operator: dae

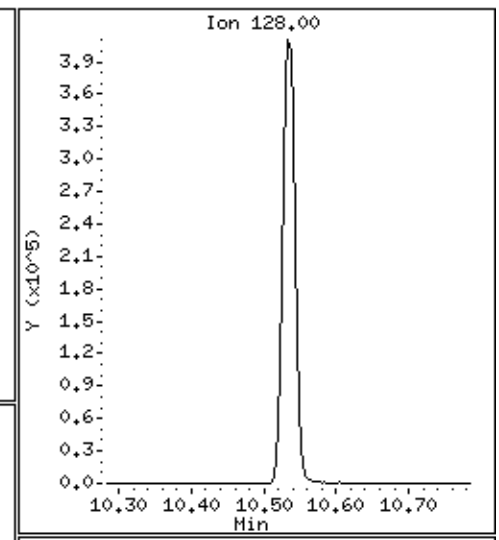
Column phase: DB-624

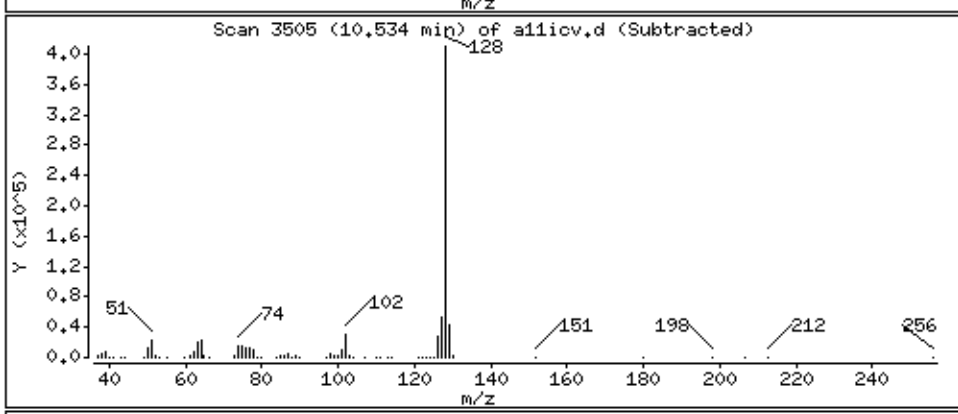
Column diameter: 0.18

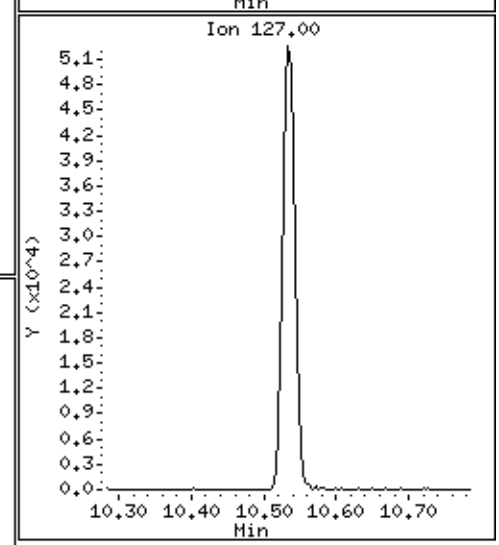
98 Naphthalene

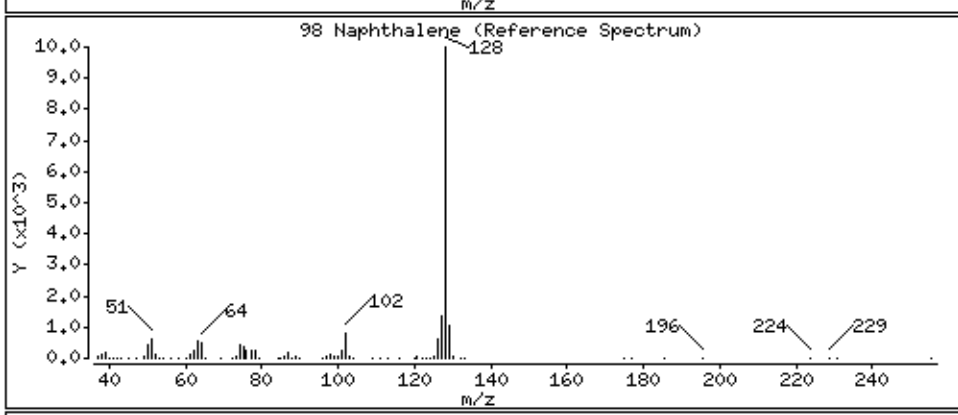
Concentration: 47.8 ppb

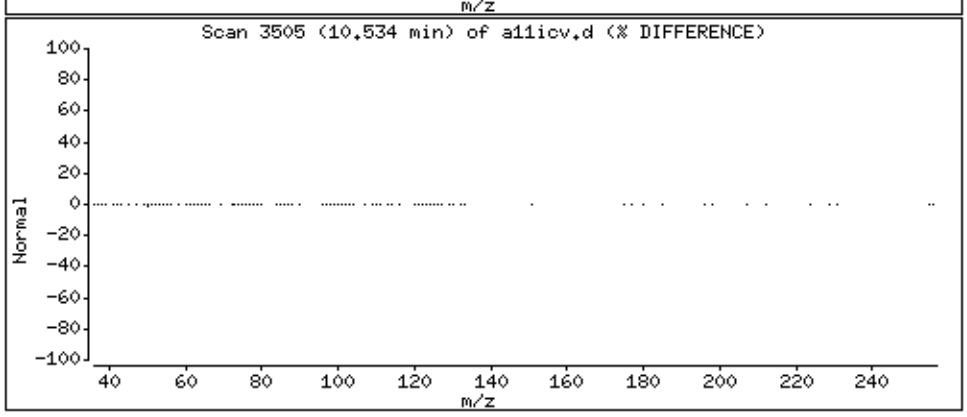












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

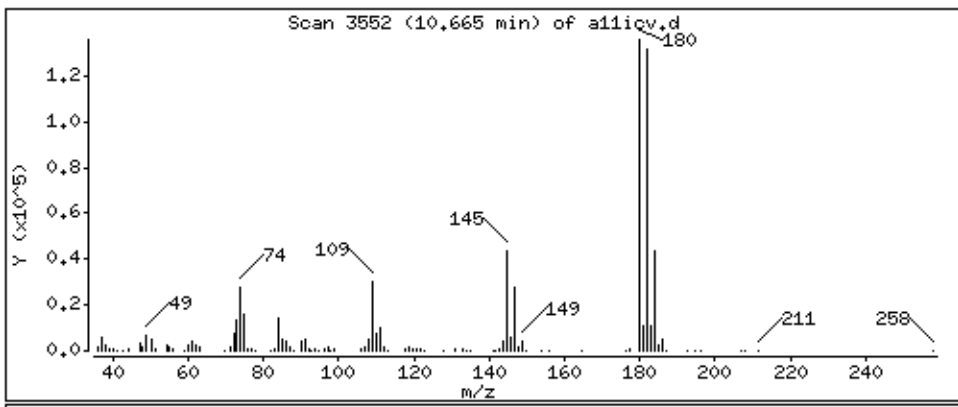
Operator: dae

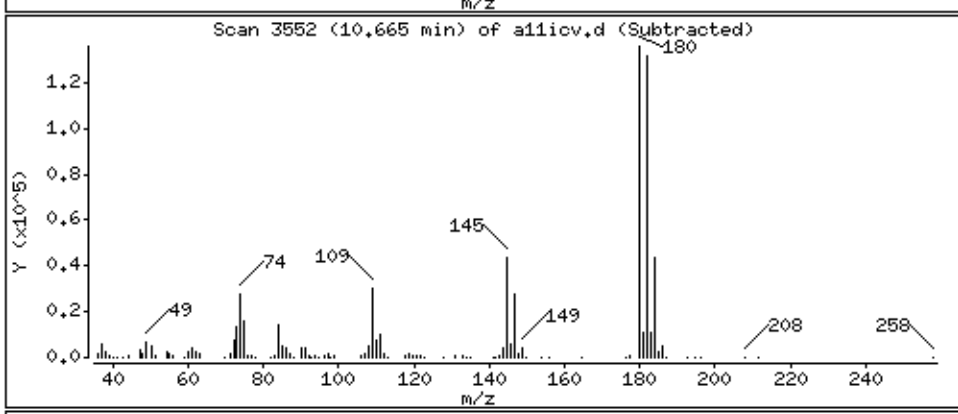
Column phase: DB-624

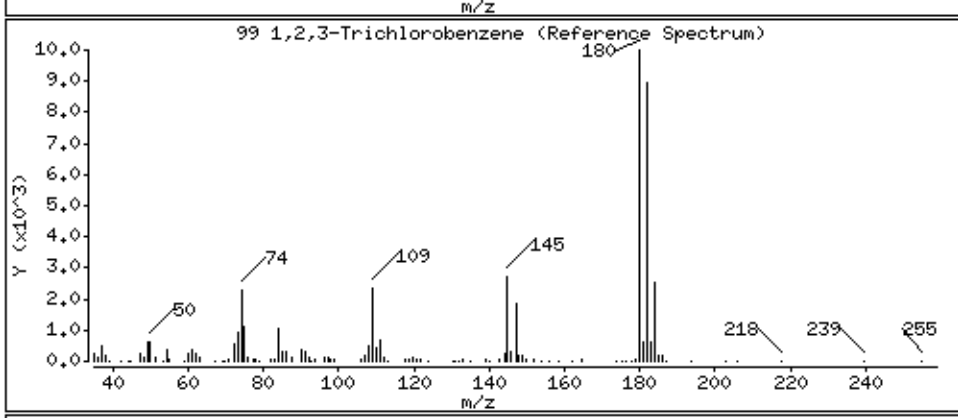
Column diameter: 0.18

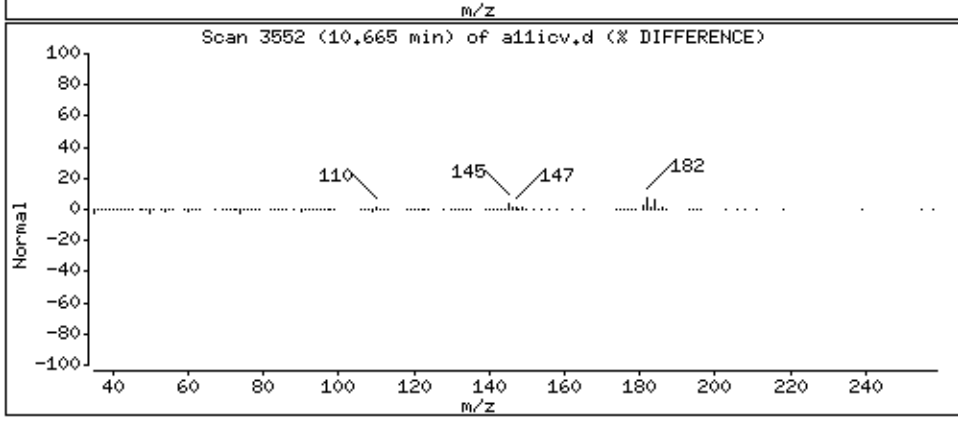
99 1,2,3-Trichlorobenzene

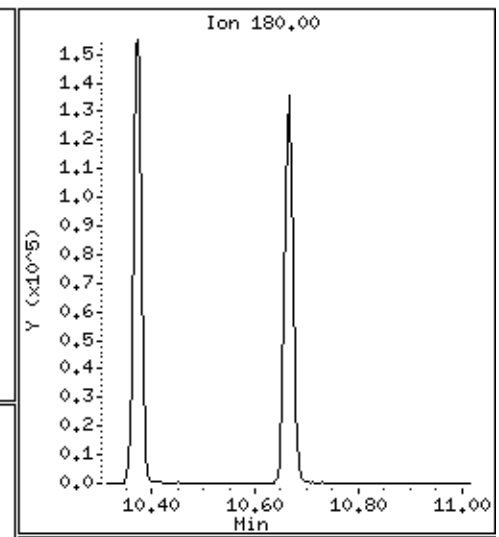
Concentration: 49.6 ppb

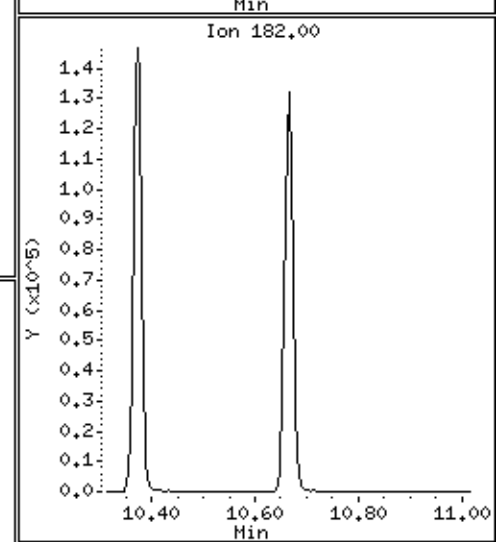


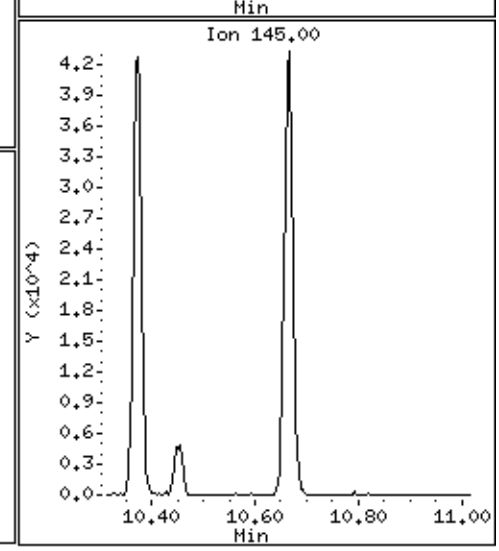












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

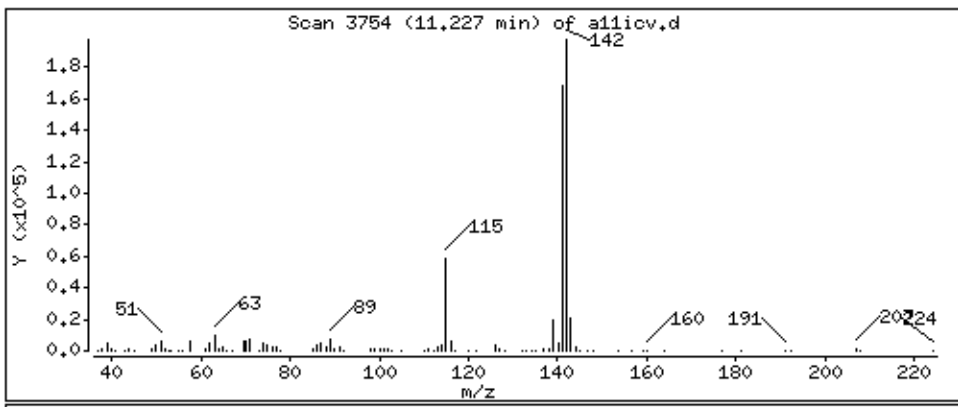
Operator: dae

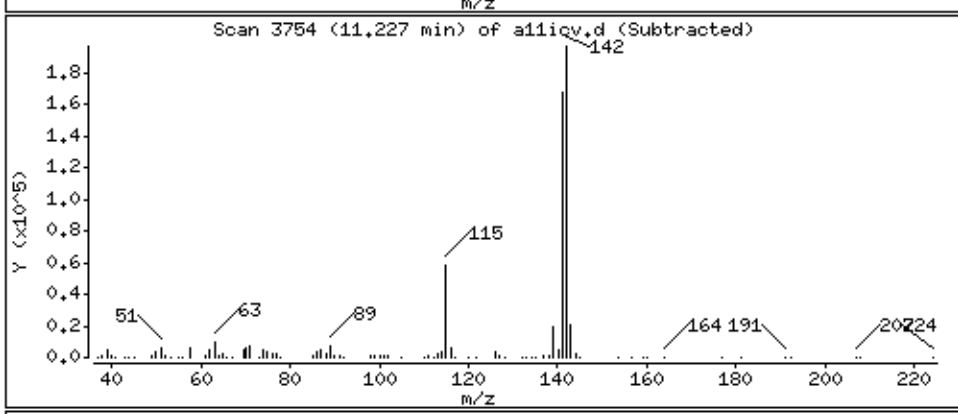
Column phase: DB-624

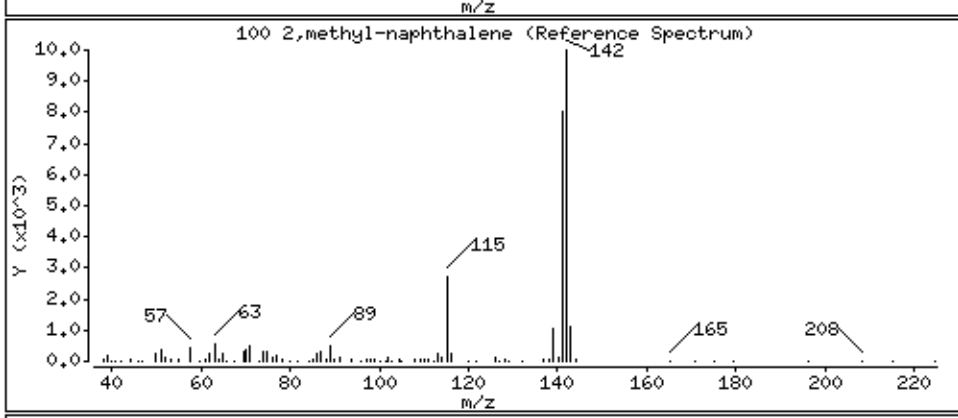
Column diameter: 0.18

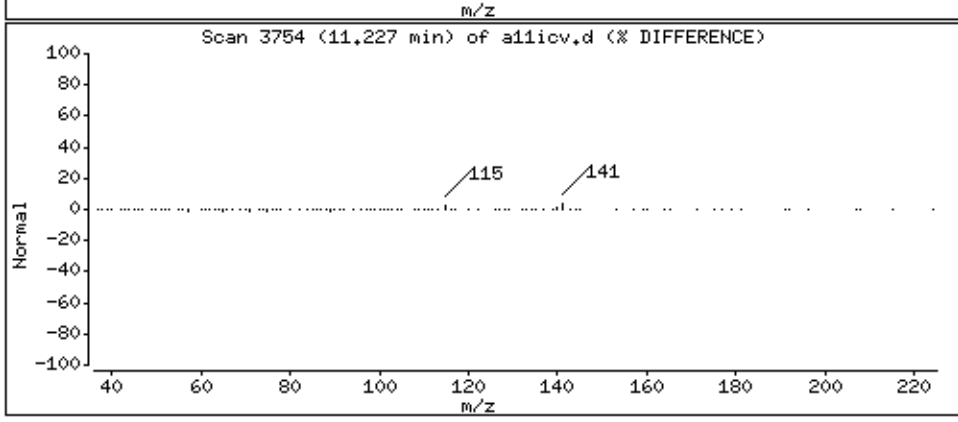
100 2,methyl-naphthalene

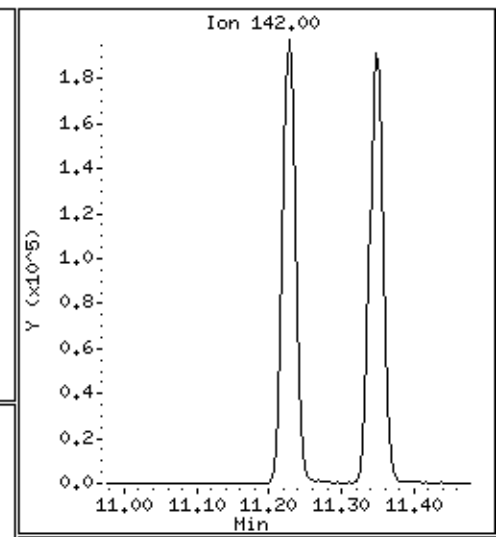
Concentration: 44.0 ppb

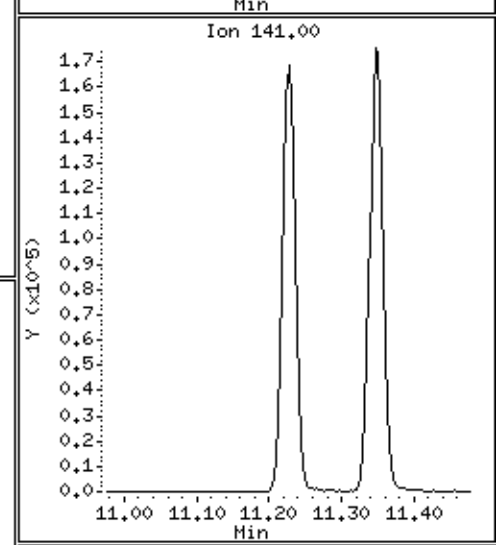


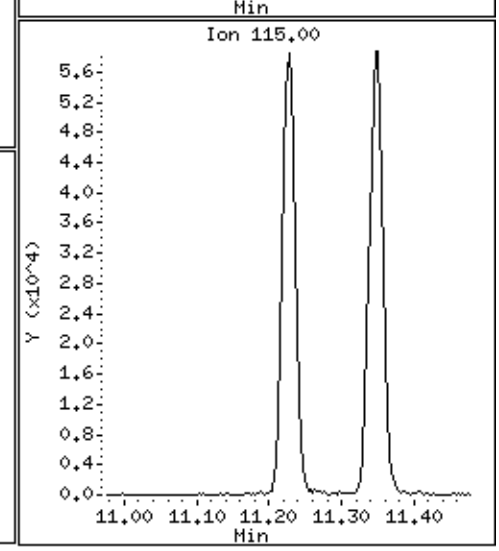












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a11icv.d

Date : 23-JAN-2017 02:50

Client ID: 8260-ICV,140434:5

Instrument: 50mv2a.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

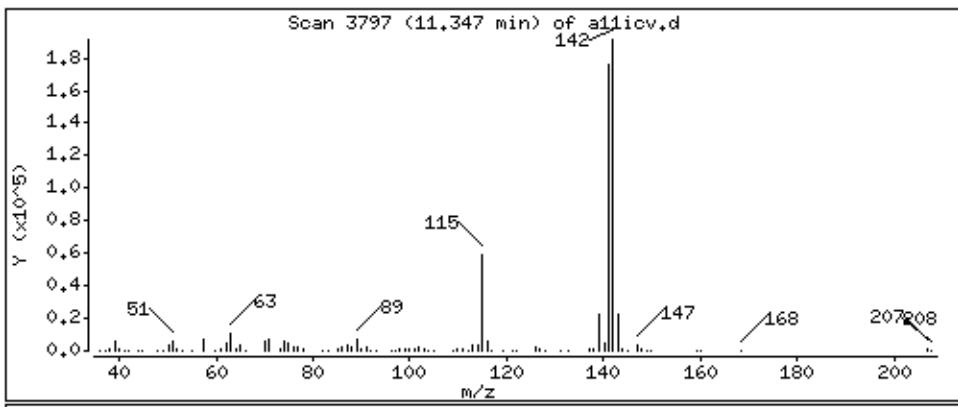
Operator: dae

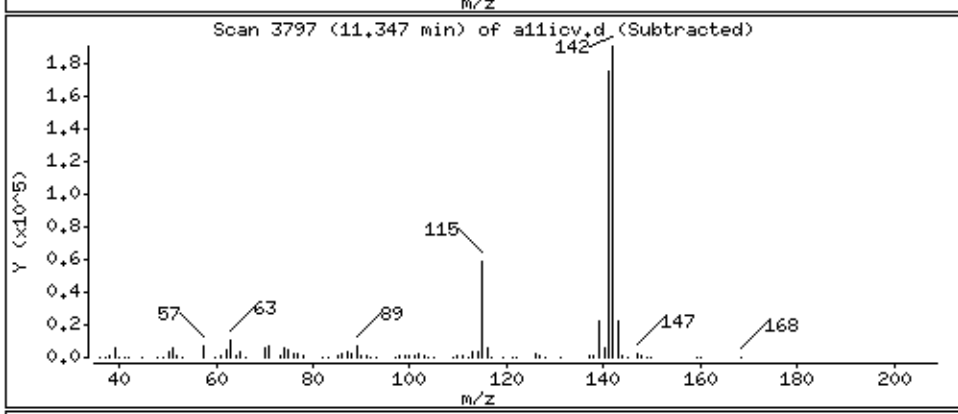
Column phase: DB-624

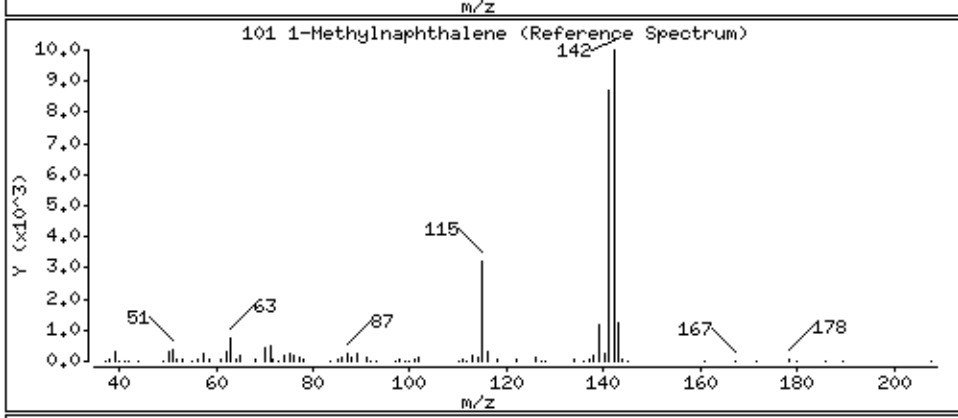
Column diameter: 0.18

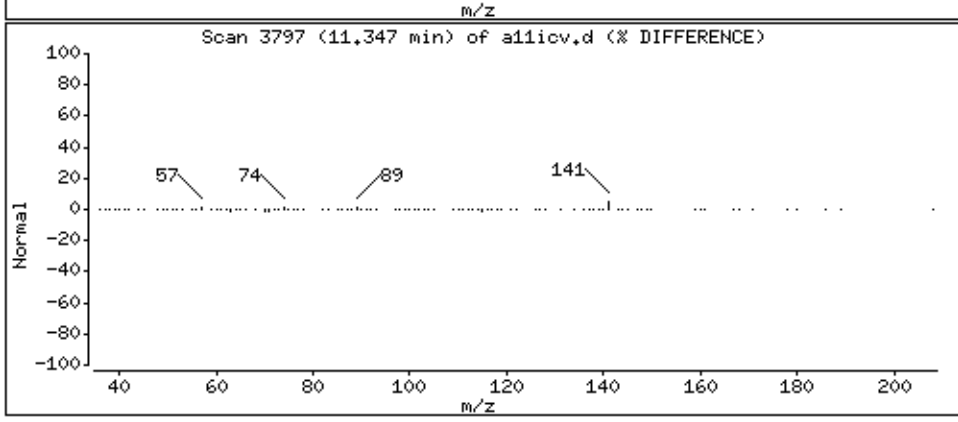
101 1-Methylnaphthalene

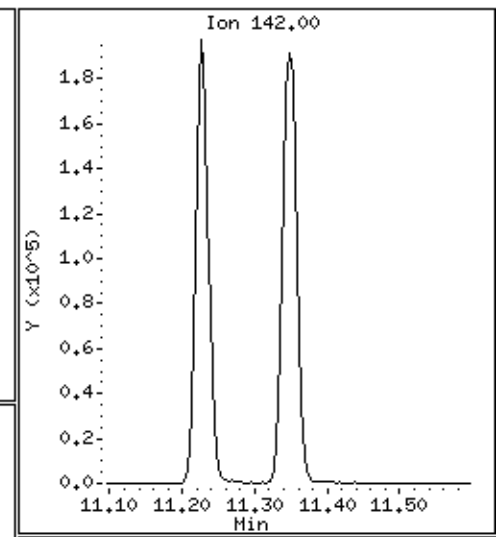
Concentration: 52.3 ppb

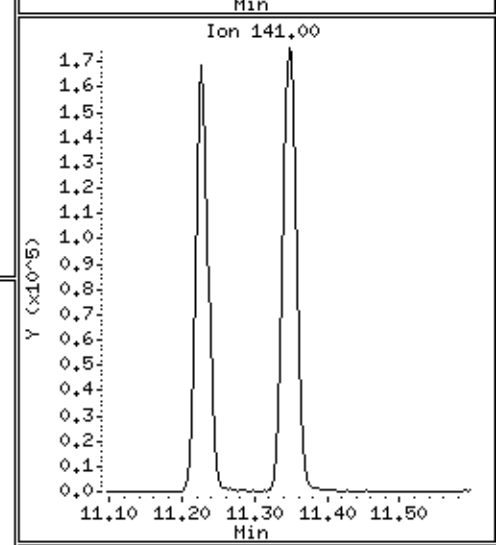


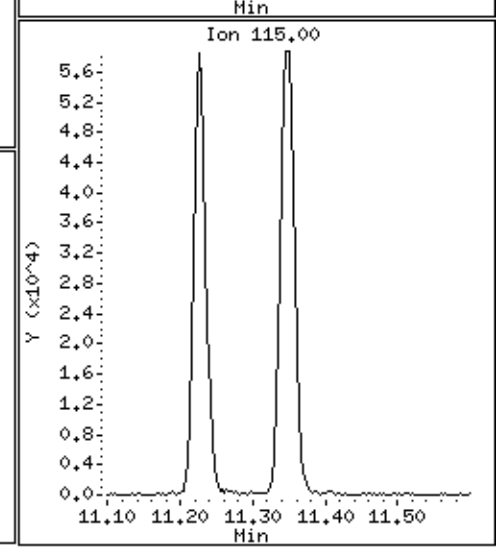












Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b/a11icv.d
Injection Date: 23-JAN-2017 02:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-ICV,140434:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\a01ccv.d
Lab Smp Id: 8260-CCV Client Smp ID: 8260-CCV
Inj Date : 24-JAN-2017 23:13
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-ccv,140436:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.871	0.871	(0.214)	99229	50.0000	45.0	
2 Chloromethane	50	0.952	0.952	(0.234)	107379	50.0000	43.0	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	151967	50.0000	50.3	
4 Bromomethane	94	1.138	1.138	(0.280)	70669	50.0000	50.8	
5 Chloroethane	64	1.183	1.183	(0.291)	93107	50.0000	48.5	
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	196969	50.0000	52.6	
7 Diethyl ether	74	1.416	1.416	(0.348)	82860	50.0000	46.2	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	158385	50.0000	46.4	
9 Acrolein	56	1.489	1.489	(0.366)	392040	1000.00	976	
10 1,1,2trichlorotrifluoroethane	101	1.536	1.536	(0.378)	132978	50.0000	47.2	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	114282	50.0000	49.5	
12 Acetone	43	1.553	1.553	(0.382)	214206	250.000	246	
13 Iodomethane	142	1.625	1.625	(0.400)	289245	100.000	88.9	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	318101	50.0000	44.5	
15 Methyl Acetate	43	1.717	1.717	(0.422)	143787	50.0000	45.5	
16 Acetonitrile	39	1.731	1.731	(0.426)	284042	50.0000	46.4	
17 allyl chloride	41	1.731	1.731	(0.426)	391961	100.000	91.1	
18 Methylene Chloride	84	1.806	1.806	(0.444)	115971	50.0000	50.8	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	28852	100.000	93.4	
20 Acrylonitrile	53	1.939	1.939	(0.477)	225444	200.000	205	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	384064	50.0000	46.2	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	119609	50.0000	48.6	
23 n-Hexane	57	2.148	2.148	(0.528)	171963	50.0000	48.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.262	2.262	(0.557)	1087094	200.000	198	
25 1,1-Dichloroethane	63	2.268	2.268	(0.558)	209854	50.0000	46.7	
26 Chloroprene	53	2.323	2.323	(0.572)	183813	50.0000	46.2	
27 Ethyl acetate	88	2.763	2.763	(0.680)	55606	400.000	359(Q)	
28 2-Butanone	72	2.724	2.724	(0.670)	84357	250.000	222	
29 1,2-Dichloroethene (cis)	96	2.730	2.730	(0.671)	129846	50.0000	47.9(Q)	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	181098	50.0000	47.1	
31 Propionitrile	54	2.782	2.782	(0.685)	22323	50.0000	50.0(Q)	
32 Methacrylonitrile	41	2.924	2.924	(0.719)	85756	50.0000	48.6	
33 Bromochloromethane	49	2.960	2.960	(0.728)	97972	50.0000	46.8	
34 Tetrahydrofuran	42	2.977	2.977	(0.732)	39060	50.0000	47.2	
35 Chloroform	83	3.063	3.063	(0.754)	198477	50.0000	46.6	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.797)	92927	50.0000	48.3	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.796)	186053	50.0000	44.1	
38 cyclohexane	56	3.311	3.311	(0.815)	198351	50.0000	45.4	
150 n-butyl chloride	56	3.378	3.378	(0.831)	257176	50.0000	47.4	
39 Carbon Tetrachloride	117	3.408	3.408	(0.838)	170528	50.0000	46.3	
40 1,1-Dichloropropene	75	3.417	3.417	(0.841)	176727	50.0000	49.0	
41 Benzene	78	3.653	3.653	(0.899)	480927	50.0000	47.1	
42 1,2-Dichloroethane	62	3.742	3.742	(0.921)	167956	50.0000	47.9	
43 2,2,4-Trimethylpentane	57	3.828	3.828	(0.942)	331956	50.0000	50.6	
44 Isobutyl alcohol	43	3.600	3.600	(0.886)	5824	50.0000	0.247	
* 45 Fluorobenzene	96	4.065	4.065	(1.000)	381395	50.0000		
47 Trichloroethene	95	4.527	4.527	(1.114)	122852	50.0000	48.8	
48 Methylcyclohexane	55	4.791	4.791	(1.179)	144025	50.0000	48.7	
49 1,2-Dichloropropane	63	4.838	4.838	(1.190)	120038	50.0000	46.8	
50 1,4-Dioxane	88	4.953	4.953	(1.218)	27343	1000.00	903	
51 Dibromomethane	93	4.939	4.939	(1.215)	76160	50.0000	47.6	
52 Methyl methacrylate	69	4.964	4.964	(1.221)	100649	50.0000	46.6	
53 Bromodichloromethane	83	5.170	5.170	(1.272)	145703	50.0000	44.7	
54 2-Chloroethyl vinyl ether	63	5.528	5.528	(0.751)	175676	100.000	93.6	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	189844	50.0000	47.0	
56 4-Methyl-2-Pentanone	43	5.851	5.851	(0.794)	637586	250.000	231	
$ 57 Toluene-d8	98	5.946	5.946	(0.807)	374333	50.0000	51.5	
58 Toluene	91	6.021	6.021	(0.818)	502597	50.0000	49.1	
59 trans-1,3-Dichloropropene	75	6.316	6.316	(0.858)	170584	50.0000	46.6	
60 Ethyl Methacrylate	69	6.405	6.405	(0.870)	168663	50.0000	45.7	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	90308	50.0000	48.0	
62 Tetrachloroethene	166	6.561	6.561	(0.891)	141455	50.0000	44.4	
63 1,3-Dichloropropane	76	6.661	6.661	(0.904)	190738	50.0000	49.0	
64 2-Hexanone	43	6.739	6.739	(0.915)	442612	250.000	246	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	118306	50.0000	45.0	
66 1,2-Dibromoethane	107	6.953	6.953	(0.944)	113334	50.0000	48.1	
* 67 Chlorobenzene-d5	117	7.365	7.365	(1.000)	280060	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	323435	50.0000	49.7	
69 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	116953	50.0000	47.2	
70 Ethylbenzene	106	7.484	7.484	(1.016)	173191	50.0000	48.9	
71 m&p-Xylene	106	7.596	7.596	(1.031)	417002	100.000	97.5	
72 o-Xylene	106	7.896	7.896	(1.072)	201393	50.0000	51.2	
73 Styrene	104	7.916	7.916	(1.075)	338597	50.0000	49.9	
74 Bromoform	173	8.052	8.052	(0.883)	87129	50.0000	41.8	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	515358	50.0000	51.6	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.129)	130231	50.0000	52.3	
77 n-amyl acetate	70	8.071	8.071	(1.096)	402388	200.000	212	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.403	8.403	(1.141)	186075	50.0000	47.6	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	148087	50.0000	51.6	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	40786	50.0000	47.5(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	49277	50.0000	48.7	
82 n-Propylbenzene	91	8.486	8.486	(0.931)	571624	50.0000	55.3	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	328609	50.0000	50.7	
84 1,3,5-Trimethylbenzene	105	8.620	8.620	(0.945)	396063	50.0000	51.8	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	122531	50.0000	50.6	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	394307	50.0000	48.7	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	396172	50.0000	50.1	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	481866	50.0000	51.7	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	236700	50.0000	48.6	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	408189	50.0000	52.8	
* 91 1,4-Dichlorobenzene-d4	152	9.118	9.118	(1.000)	142792	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	246304	50.0000	46.6	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	328653	50.0000	51.0	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	233873	50.0000	49.4	
95 1,2-Dibromo-3-chloropropane	155	9.872	9.872	(1.083)	25439	50.0000	41.9	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	147176	50.0000	49.4	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	62113	50.0000	50.4	
98 Naphthalene	128	10.534	10.534	(1.155)	421421	50.0000	48.1	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	140732	50.0000	49.4	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	230008	50.0000	46.5	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	200737	50.0000	45.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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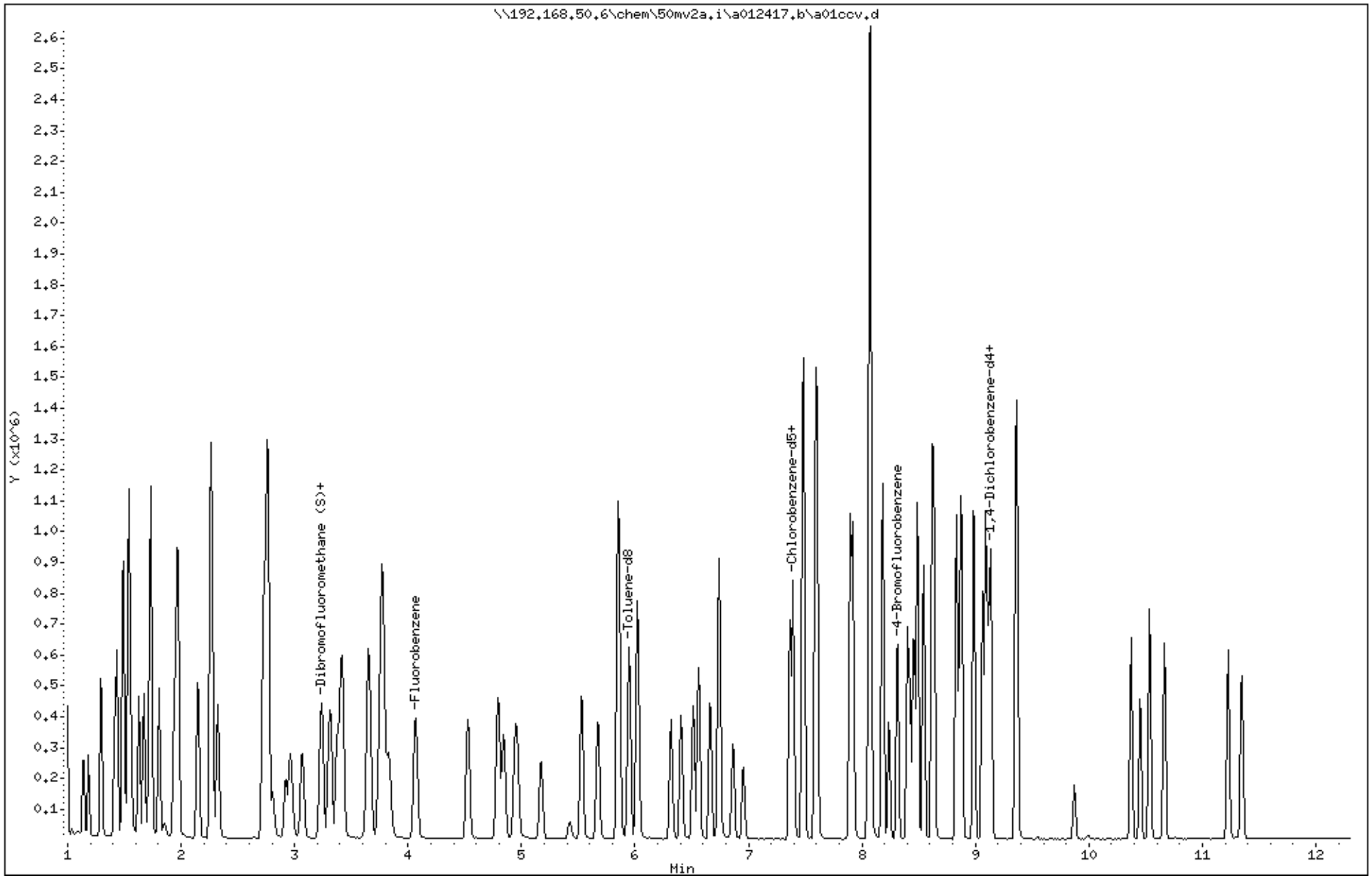
Date : 24-JAN-2017 23:13
Client ID: 8260-CCV
Sample Info: 8260-CCV,140436:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Injection Date: 24-JAN-2017 23:13
Instrument: 50mv2a.i
Lab Sample ID: 8260-CCV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c01ccv.d
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Inj Date : 25-JAN-2017 11:17
Operator : dae Inst ID: 50mv2a.i
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Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.871	0.871	(0.214)	83702	50.0000	47.4	
2 Chloromethane	50	0.952	0.952	(0.234)	65937	50.0000	33.0	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	119785	50.0000	49.5	
4 Bromomethane	94	1.138	1.138	(0.280)	22461	50.0000	18.8	
5 Chloroethane	64	1.183	1.183	(0.291)	79135	50.0000	51.4	
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	156188	50.0000	52.0	
7 Diethyl ether	74	1.416	1.416	(0.348)	65127	50.0000	45.3	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.353)	126264	50.0000	46.2	
9 Acrolein	56	1.489	1.489	(0.366)	303691	1000.00	943	
10 1,1,2trichlorotrifluoroethane	101	1.536	1.536	(0.378)	105003	50.0000	46.5	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	91555	50.0000	49.5	
12 Acetone	43	1.555	1.553	(0.383)	182695	250.000	262	
13 Iodomethane	142	1.628	1.625	(0.400)	141064	100.000	54.3	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	250109	50.0000	43.6	
15 Methyl Acetate	43	1.717	1.717	(0.422)	112166	50.0000	44.3	
16 Acetonitrile	39	1.733	1.731	(0.426)	213511	50.0000	43.5	
17 allyl chloride	41	1.731	1.731	(0.426)	299244	100.000	86.8	
18 Methylene Chloride	84	1.806	1.806	(0.444)	92905	50.0000	50.8	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.456)	23919	100.000	96.9	
20 Acrylonitrile	53	1.942	1.939	(0.478)	183193	200.000	208	
21 Methyl-tert-butyl ether	73	1.962	1.964	(0.483)	308386	50.0000	46.3	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	96061	50.0000	48.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
23 n-Hexane	57	2.145	2.148	(0.528)	122624	50.0000	43.5	
24 Vinyl Acetate	43	2.262	2.262	(0.557)	876202	200.000	199	
25 1,1-Dichloroethane	63	2.268	2.268	(0.558)	174938	50.0000	48.5	
26 Chloroprene	53	2.323	2.323	(0.572)	151486	50.0000	47.5	
27 Ethyl acetate	88	2.763	2.763	(0.680)	47914	400.000	386	
28 2-Butanone	72	2.721	2.724	(0.669)	69857	250.000	229	
29 1,2-Dichloroethene (cis)	96	2.732	2.730	(0.672)	106088	50.0000	48.8	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	110853	50.0000	36.0	
31 Propionitrile	54	2.780	2.782	(0.684)	16837	50.0000	47.0	
32 Methacrylonitrile	41	2.924	2.924	(0.719)	70335	50.0000	49.7	
33 Bromochloromethane	49	2.963	2.960	(0.729)	81453	50.0000	48.5	
34 Tetrahydrofuran	42	2.985	2.977	(0.734)	32140	50.0000	48.5	
35 Chloroform	83	3.069	3.063	(0.755)	166302	50.0000	48.8	
$ 36 Dibromofluoromethane (S)	113	3.241	3.239	(0.797)	75740	50.0000	49.1	
37 1,1,1-Trichloroethane	97	3.239	3.236	(0.797)	156855	50.0000	46.4	
38 cyclohexane	56	3.314	3.311	(0.815)	165719	50.0000	47.3	
150 n-butyl chloride	56	3.378	3.378	(0.831)	210865	50.0000	48.5	
39 Carbon Tetrachloride	117	3.414	3.408	(0.840)	139288	50.0000	47.2	
40 1,1-Dichloropropene	75	3.419	3.417	(0.841)	143585	50.0000	49.7	
41 Benzene	78	3.659	3.653	(0.900)	396953	50.0000	48.5	
42 1,2-Dichloroethane	62	3.745	3.742	(0.921)	138864	50.0000	49.4	
43 2,2,4-Trimethylpentane	57	3.831	3.828	(0.943)	242780	50.0000	46.1	
44 Isobutyl alcohol	43	3.600	3.600	(0.886)	4890	50.0000	0.259	
* 45 Fluorobenzene	96	4.065	4.065	(1.000)	305684	50.0000		
47 Trichloroethene	95	4.530	4.527	(1.114)	106518	50.0000	52.8	
48 Methylcyclohexane	55	4.794	4.791	(1.179)	112968	50.0000	47.6	
49 1,2-Dichloropropane	63	4.844	4.838	(1.192)	99019	50.0000	48.2	
50 1,4-Dioxane	88	4.950	4.953	(1.218)	25703	1000.00	1060	
51 Dibromomethane	93	4.941	4.939	(1.216)	64031	50.0000	50.0	
52 Methyl methacrylate	69	4.961	4.964	(1.220)	81249	50.0000	46.9	
53 Bromodichloromethane	83	5.172	5.170	(1.272)	122872	50.0000	47.0	
54 2-Chloroethyl vinyl ether	63	5.528	5.528	(0.751)	142909	100.000	93.8	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	149314	50.0000	45.5	
56 4-Methyl-2-Pentanone	43	5.854	5.851	(0.795)	537388	250.000	240	
$ 57 Toluene-d8	98	5.949	5.946	(0.808)	299544	50.0000	50.7	
58 Toluene	91	6.021	6.021	(0.818)	421900	50.0000	50.7	
59 trans-1,3-Dichloropropene	75	6.319	6.316	(0.858)	134884	50.0000	45.4	
60 Ethyl Methacrylate	69	6.408	6.405	(0.870)	139993	50.0000	46.7	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	74388	50.0000	48.7	
62 Tetrachloroethene	166	6.561	6.561	(0.891)	116465	50.0000	45.1	
63 1,3-Dichloropropane	76	6.664	6.661	(0.905)	159417	50.0000	50.4	
64 2-Hexanone	43	6.739	6.739	(0.915)	362054	250.000	248	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	97915	50.0000	45.9	
66 1,2-Dibromoethane	107	6.953	6.953	(0.944)	96422	50.0000	50.4	
* 67 Chlorobenzene-d5	117	7.365	7.365	(1.000)	227357	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	265223	50.0000	50.2	
69 1,1,1,2-Tetrachloroethane	131	7.482	7.479	(1.016)	95499	50.0000	47.5	
70 Ethylbenzene	106	7.484	7.484	(1.016)	142202	50.0000	49.5	
71 m&p-Xylene	106	7.596	7.596	(1.031)	346705	100.000	99.9	
72 o-Xylene	106	7.896	7.896	(1.072)	166184	50.0000	52.0	
73 Styrene	104	7.918	7.916	(1.075)	279059	50.0000	50.6	
74 Bromoform	173	8.055	8.052	(0.883)	71039	50.0000	43.4	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	421748	50.0000	52.1	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.129)	106117	50.0000	52.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.402	8.403	(1.141)	155964	50.0000	49.2	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	123729	50.0000	54.8	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	30128	50.0000	43.2	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	43037	50.0000	54.2	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	461935	50.0000	56.9	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	269406	50.0000	52.9	
84 1,3,5-Trimethylbenzene	105	8.620	8.620	(0.945)	317160	50.0000	52.8	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	102399	50.0000	53.9	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	323789	50.0000	50.9	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	326045	50.0000	52.5	
88 sec-Butylbenzene	105	8.987	8.984	(0.986)	395282	50.0000	53.9	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	195301	50.0000	51.0	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	333341	50.0000	54.8	
* 91 1,4-Dichlorobenzene-d4	152	9.118	9.118	(1.000)	112212	50.0000		
92 1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	195683	50.0000	47.1	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	261377	50.0000	51.6	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	188707	50.0000	50.7	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.872	(1.083)	22037	50.0000	46.2	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	115025	50.0000	49.2	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	46051	50.0000	47.5	
98 Naphthalene	128	10.534	10.534	(1.155)	335001	50.0000	48.6	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	108053	50.0000	48.3	
100 2,methyl-naphthalene	142	11.229	11.226	(1.232)	184816	50.0000	47.5	
101 1-Methylnaphthalene	142	11.349	11.346	(1.245)	157305	50.0000	45.6	

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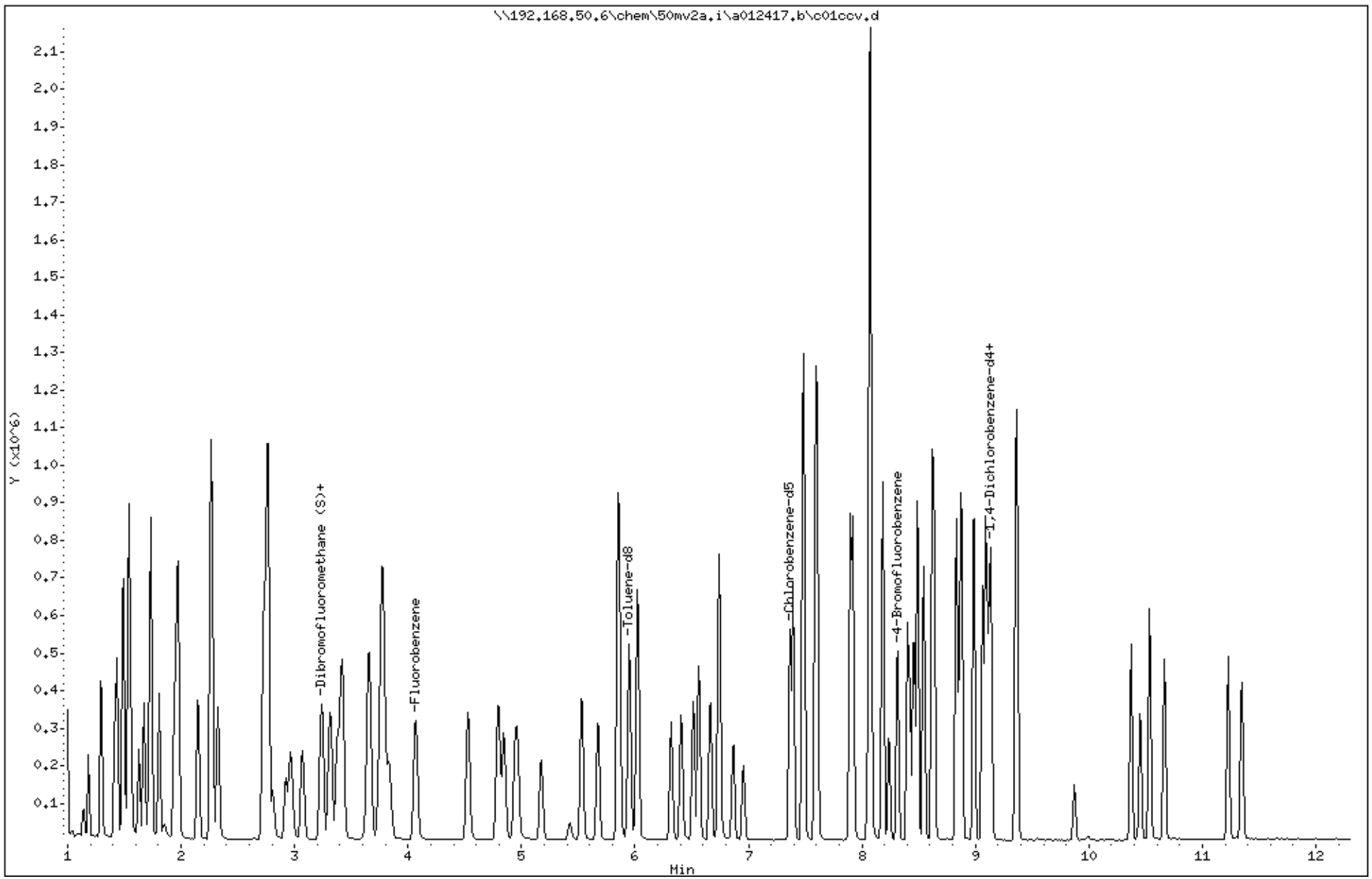
Client ID: 8260-CCV
Instrument: 50mv2a.i
Sample Info: 8260-CCV,140436:0
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/c01ccv.d
Injection Date: 25-JAN-2017 11:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CCV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012517.b\a01ccv.d
Lab Smp Id: 8260-CCV Client Smp ID: 8260-CCV
Inj Date : 26-JAN-2017 00:11
Operator : dae Inst ID: 50mv2a.i
Smp Info : 8260-ccv,140:0
Misc Info : 99071
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012517.b\-a8260_a_c.m
Meth Date : 26-Jan-2017 01:09 dengelhard Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

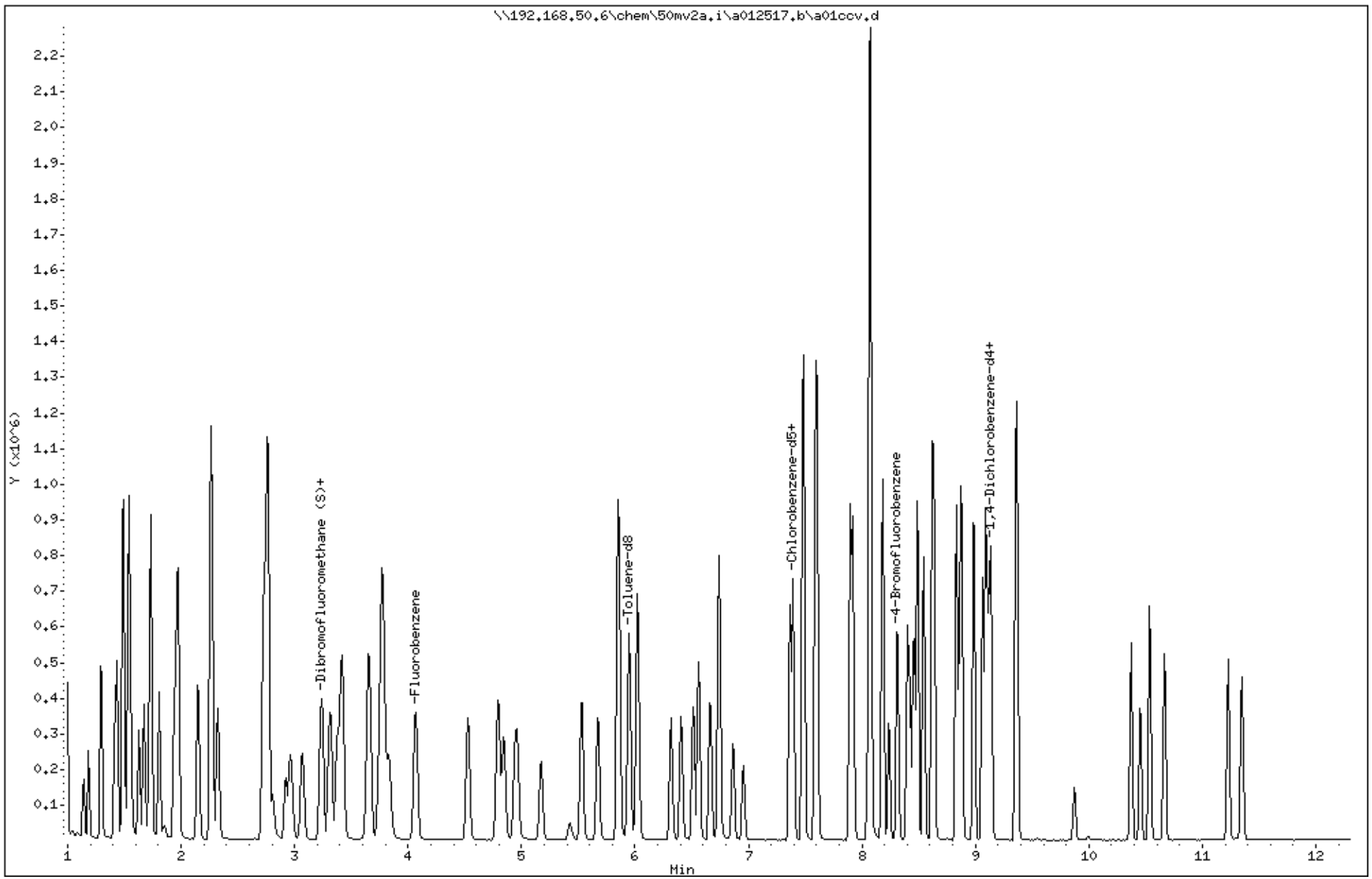
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	155035	50.0000	77.3	
2 Chloromethane	50	0.952	0.952	(0.234)	87733	50.0000	38.6	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	152767	50.0000	55.6	
4 Bromomethane	94	1.138	1.138	(0.280)	49212	50.0000	38.4	
5 Chloroethane	64	1.183	1.183	(0.291)	85084	50.0000	48.7	
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	187304	50.0000	55.0	
7 Diethyl ether	74	1.416	1.416	(0.348)	70305	50.0000	43.1	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.352)	134254	50.0000	43.2	
9 Acrolein	56	1.489	1.489	(0.366)	423379	1000.00	1160	
10 1,1,2trichlorotrifluoroethane	101	1.536	1.536	(0.378)	114106	50.0000	44.5	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	96703	50.0000	46.1	
12 Acetone	43	1.555	1.555	(0.382)	182136	250.000	229	
13 Iodomethane	142	1.628	1.628	(0.400)	190420	100.000	64.5	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	256795	50.0000	39.5	
15 Methyl Acetate	43	1.717	1.717	(0.422)	109293	50.0000	38.0	
16 Acetonitrile	39	1.733	1.733	(0.426)	227246	50.0000	40.8	
17 allyl chloride	41	1.733	1.733	(0.426)	323455	100.000	82.6	
18 Methylene Chloride	84	1.806	1.806	(0.444)	96496	50.0000	46.5	
19 tert-Butyl Alcohol	59	1.856	1.856	(0.456)	22799	100.000	80.2	
20 Acrylonitrile	53	1.942	1.942	(0.477)	189316	200.000	189	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	316377	50.0000	41.9	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	99778	50.0000	44.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
23 n-Hexane	57	2.148	2.148	(0.528)	144366	50.0000	45.1	
24 Vinyl Acetate	43	2.262	2.262	(0.556)	963927	200.000	193	
25 1,1-Dichloroethane	63	2.270	2.270	(0.558)	181473	50.0000	44.4	
26 Chloroprene	53	2.320	2.320	(0.571)	161575	50.0000	44.6	
27 Ethyl acetate	88	2.763	2.763	(0.679)	47332	400.000	336	
28 2-Butanone	72	2.724	2.724	(0.670)	74093	250.000	214	
29 1,2-Dichloroethene (cis)	96	2.732	2.732	(0.672)	112655	50.0000	45.6	
30 2,2-Dichloropropane	77	2.738	2.738	(0.673)	151664	50.0000	43.4	
31 Propionitrile	54	2.780	2.780	(0.683)	17207	50.0000	42.2	
32 Methacrylonitrile	41	2.924	2.924	(0.719)	71231	50.0000	44.3	
33 Bromochloromethane	49	2.960	2.960	(0.728)	84351	50.0000	44.3	
34 Tetrahydrofuran	42	2.980	2.980	(0.733)	34627	50.0000	45.9	
35 Chloroform	83	3.069	3.069	(0.754)	177120	50.0000	45.8	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.796)	87877	50.0000	50.2	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.795)	166350	50.0000	43.3	
38 cyclohexane	56	3.311	3.311	(0.814)	172084	50.0000	43.3	
150 n-butyl chloride	56	3.375	3.375	(0.830)	219339	50.0000	44.4	
39 Carbon Tetrachloride	117	3.414	3.414	(0.839)	150644	50.0000	45.0	
40 1,1-Dichloropropene	75	3.422	3.422	(0.841)	155265	50.0000	47.4	
41 Benzene	78	3.656	3.656	(0.899)	412215	50.0000	44.4	
42 1,2-Dichloroethane	62	3.748	3.748	(0.921)	148598	50.0000	46.6	
43 2,2,4-Trimethylpentane	57	3.823	3.823	(0.940)	271617	50.0000	45.5	
44 Isobutyl alcohol	43	3.592	3.592	(0.883)	4241	50.0000	0.198	
* 45 Fluorobenzene	96	4.068	4.068	(1.000)	346946	50.0000		
47 Trichloroethene	95	4.527	4.527	(1.113)	107395	50.0000	46.9	
48 Methylcyclohexane	55	4.797	4.797	(1.179)	124895	50.0000	46.4	
49 1,2-Dichloropropane	63	4.838	4.838	(1.189)	101371	50.0000	43.4	
50 1,4-Dioxane	88	4.947	4.947	(1.216)	21784	1000.00	791	
51 Dibromomethane	93	4.939	4.939	(1.214)	66461	50.0000	45.7	
52 Methyl methacrylate	69	4.958	4.958	(1.219)	85788	50.0000	43.6	
53 Bromodichloromethane	83	5.172	5.172	(1.272)	130832	50.0000	44.1	
54 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	150132	100.000	84.4	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	164943	50.0000	43.0	
56 4-Methyl-2-Pentanone	43	5.851	5.851	(0.794)	553060	250.000	212	
$ 57 Toluene-d8	98	5.949	5.949	(0.807)	341742	50.0000	49.6	
58 Toluene	91	6.021	6.021	(0.817)	440839	50.0000	45.4	
59 trans-1,3-Dichloropropene	75	6.319	6.319	(0.858)	146718	50.0000	42.3	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	149469	50.0000	42.7	
61 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	80294	50.0000	45.0	
62 Tetrachloroethene	166	6.561	6.561	(0.890)	122671	50.0000	40.6	
63 1,3-Dichloropropane	76	6.661	6.661	(0.904)	168833	50.0000	45.7	
64 2-Hexanone	43	6.739	6.739	(0.915)	387019	250.000	227	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	104133	50.0000	41.8	
66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	102224	50.0000	45.8	
* 67 Chlorobenzene-d5	117	7.367	7.367	(1.000)	265507	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	281293	50.0000	45.6	
69 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	101496	50.0000	43.2	
70 Ethylbenzene	106	7.484	7.484	(1.016)	151802	50.0000	45.2	
71 m&p-Xylene	106	7.596	7.596	(1.031)	367186	100.000	90.6	
72 o-Xylene	106	7.896	7.896	(1.072)	177151	50.0000	47.5	
73 Styrene	104	7.918	7.918	(1.075)	305679	50.0000	47.5	
74 Bromoform	173	8.052	8.052	(0.883)	75680	50.0000	38.7	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	450570	50.0000	47.6	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	121679	50.0000	51.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	346867	200.000	193	
78 Bromobenzene	77	8.402	8.402	(1.140)	168075	50.0000	45.4	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	130867	50.0000	48.6	
80 trans-1,4-Dichloro-2-butene	53	8.447	8.447	(1.147)	37204	50.0000	45.7	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	44890	50.0000	47.3	
82 n-Propylbenzene	91	8.486	8.486	(0.931)	494087	50.0000	50.9	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	286040	50.0000	47.0	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	340882	50.0000	47.5	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	108866	50.0000	47.9	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	340491	50.0000	44.8	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	349392	50.0000	47.0	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	414141	50.0000	47.3	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	206302	50.0000	45.1	
90 p-Isopropyltoluene	119	9.092	9.092	(0.997)	352982	50.0000	48.6	
* 91 1,4-Dichlorobenzene-d4	152	9.117	9.117	(1.000)	134063	50.0000		
92 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	209519	50.0000	42.2	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	284035	50.0000	46.9	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	197761	50.0000	44.5	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	22630	50.0000	39.7	
96 1,2,4-Trichlorobenzene	180	10.375	10.375	(1.138)	124576	50.0000	44.6	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	49866	50.0000	43.1	
98 Naphthalene	128	10.534	10.534	(1.155)	355493	50.0000	43.2	
99 1,2,3-Trichlorobenzene	180	10.667	10.667	(1.170)	120055	50.0000	44.9	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	191995	50.0000	41.3	
101 1-Methylnaphthalene	142	11.349	11.349	(1.245)	170333	50.0000	41.4	

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a01ccv.d
Date : 26-JAN-2017 00:11
Client ID: 8260-CCV
Sample Info: 8260-CCV,140:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b/a01ccv.d
Injection Date: 26-JAN-2017 00:11
Instrument: 50mv2a.i
Lab Sample ID: 8260-CCV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d
Lab Smp Id: 8260-ICV,140434:5 Client Smp ID: 8260-ICV,140434:5
Inj Date : 23-JAN-2017 03:07
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-icv,140434:5
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012217cal.b\-b8260_a_c.m
Meth Date : 23-Jan-2017 23:20 50mv2b.i Quant Type: ISTD
Cal Date : 23-JAN-2017 02:01 Cal File: b08cal8.d
Als bottle: 63 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.217)	107789	70.8047	70.8(R)	
2 Chloromethane	50	0.988	0.990	(0.243)	120831	50.5179	50.5	
3 Vinyl Chloride	62	1.010	1.007	(0.248)	138339	59.5456	59.5	
4 Bromomethane	94	1.152	1.149	(0.283)	60732	79.5146	79.5(R)	
5 Chloroethane	64	1.196	1.193	(0.294)	75395	53.7013	53.7	
6 Trichlorofluoromethane	101	1.305	1.305	(0.320)	169712	63.3819	63.4	
7 Diethyl ether	74	1.424	1.427	(0.350)	70490	48.2839	48.3	
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.355)	116528	51.1318	51.1	
9 Acrolein	56	1.499	1.500	(0.368)	454663	1375.96	1380	
10 1,1,2trichlorotrifluoroethane	101	1.547	1.547	(0.380)	99313	49.7430	49.7	
11 1,1-Dichloroethene	96	1.552	1.550	(0.381)	83887	52.1504	52.2	
12 Acetone	43	1.563	1.564	(0.384)	193488	267.567	268	
13 Iodomethane	142	1.639	1.636	(0.402)	160065	101.678	102	
14 Carbon Disulfide	76	1.683	1.683	(0.413)	242725	58.3754	58.4	
15 Methyl Acetate	43	1.728	1.728	(0.424)	176729	77.7375	77.7(R)	
16 Acetonitrile	39	1.742	1.742	(0.428)	181724	49.6238	49.6	
17 allyl chloride	41	1.742	1.742	(0.428)	269293	101.374	101	
18 Methylene Chloride	84	1.819	1.817	(0.447)	97234	56.1127	56.1	
19 tert-Butyl Alcohol	59	1.858	1.861	(0.456)	22971	103.121	103	
20 Acrylonitrile	53	1.950	1.950	(0.479)	197631	213.926	214	
21 Methyl-tert-butyl ether	73	1.972	1.973	(0.484)	325904	52.3561	52.4	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.486)	92792	53.0778	53.1	
23 n-Hexane	57	2.156	2.156	(0.529)	120776	45.8823	45.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.270	2.270	(0.557)	824243	209.074	209(M)	WP
25 1,1-Dichloroethane	63	2.281	2.279	(0.560)	165452	48.3663	48.4	
26 Chloroprene	53	2.334	2.331	(0.573)	141883	50.6759	50.7	
147 Ethyl acetate	88	2.749	2.774	(0.675)	1482	12.6431	12.6(Q)	
27 2-Butanone	72	2.732	2.732	(0.671)	73423	265.400	265(Q)	
28 1,2-Dichloroethene (cis)	96	2.743	2.740	(0.674)	106249	55.2011	55.2(Q)	
29 2,2-Dichloropropane	77	2.746	2.746	(0.674)	102766	50.8381	50.8	
30 Propionitrile	54	2.788	2.788	(0.684)	15748	41.9364	41.9(Q)	
31 Methacrylonitrile	41	2.932	2.932	(0.720)	300037	218.203	218	
32 Bromochloromethane	49	2.971	2.971	(0.730)	86806	51.0674	51.1	
33 Tetrahydrofuran	42	2.985	2.985	(0.733)	39162	56.7043	56.7	
34 Chloroform	83	3.080	3.077	(0.756)	166888	55.1519	55.2	
$ 35 Dibromofluoromethane (S)	113	3.252	3.252	(0.798)	62958	48.2452	48.2	
36 1,1,1-Trichloroethane	97	3.247	3.247	(0.797)	148157	48.4140	48.4	
37 cyclohexane	56	3.325	3.325	(0.816)	163565	55.1634	55.2	
146 n-butyl chloride	56	3.389	3.325	(0.832)	205796	55.2131	55.2	
38 Carbon Tetrachloride	117	3.416	3.419	(0.839)	133725	50.9520	51.0	
39 1,1-Dichloropropene	75	3.428	3.430	(0.842)	132159	51.3147	51.3	
40 Benzene	78	3.667	3.667	(0.900)	376611	50.5162	50.5	
41 1,2-Dichloroethane	62	3.753	3.756	(0.921)	137612	50.1333	50.1	
42 2,2,4-Trimethylpentane	57	3.837	3.839	(0.942)	233626	53.9839	54.0	
43 Isobutyl alcohol	43	3.781	3.606	(0.928)	1109758	61.1244	61.1	
148 Isopropyl acetate	61	3.781	3.784	(0.928)	228258	249.072	249	
* 44 Fluorobenzene	96	4.073	4.070	(1.000)	239630	50.0000		
45 Trichloroethene	95	4.535	4.532	(1.113)	92838	50.5797	50.6	
46 Methylcyclohexane	55	4.805	4.799	(1.180)	107950	52.6589	52.6	
47 1,2-Dichloropropane	63	4.849	4.849	(1.191)	103744	52.5702	52.6	
48 Dibromomethane	93	4.947	4.947	(1.214)	64843	55.0897	55.1	
49 Methyl methacrylate	69	4.969	4.966	(1.220)	82206	49.7824	49.8	
50 1,4-Dioxane	88	4.955	4.952	(1.216)	31261	1127.79	1130	
51 Bromodichloromethane	83	5.178	5.175	(1.271)	131513	49.5210	49.5	
52 2-Chloroethyl vinyl ether	63	5.534	5.537	(0.751)	29994	39.1622	39.2	
53 cis-1,3-Dichloropropene	75	5.678	5.678	(0.771)	165707	56.7405	56.7	
54 4-Methyl-2-Pentanone	43	5.856	5.854	(0.795)	533881	257.883	258	
$ 55 Toluene-d8	98	5.948	5.951	(0.807)	235021	49.7952	49.8	
56 Toluene	91	6.023	6.023	(0.818)	398119	48.6935	48.7	
57 trans-1,3-Dichloropropene	75	6.321	6.318	(0.858)	146051	55.9296	55.9	
58 Ethyl Methacrylate	69	6.405	6.407	(0.869)	587560	218.235	218	
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	74665	49.6852	49.7	
60 Tetrachloroethene	166	6.563	6.566	(0.891)	110502	49.4558	49.4	
61 1,3-Dichloropropane	76	6.663	6.666	(0.904)	163040	54.7904	54.8	
62 2-Hexanone	43	6.741	6.741	(0.915)	371969	257.872	258	
63 Dibromochloromethane	129	6.866	6.864	(0.932)	108322	52.3530	52.4	
64 1,2-Dibromoethane	107	6.955	6.956	(0.944)	95870	52.4189	52.4	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	192544	50.0000		
66 Chlorobenzene	112	7.392	7.392	(1.003)	267052	49.9271	49.9	
67 1,1,1,2-Tetrachloroethane	131	7.481	7.481	(1.015)	103434	52.8327	52.8	
68 Ethylbenzene	106	7.487	7.487	(1.016)	148859	50.9387	50.9	
69 m&p-Xylene	106	7.601	7.598	(1.032)	368119	103.250	103	
70 o-Xylene	106	7.899	7.899	(1.072)	181494	52.3406	52.3	
71 Styrene	104	7.918	7.918	(1.075)	305421	51.9576	52.0	
72 Bromoform	173	8.054	8.057	(0.883)	87146	49.8701	49.9	
73 Isopropylbenzene	105	8.182	8.182	(1.111)	447105	51.3062	51.3	
$ 74 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	91261	49.6544	49.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
149 n-amyl acetate	70	8.071	8.071	(1.096)	404706	248.296	248	
75 Bromobenzene	77	8.402	8.405	(1.140)	169440	48.0140	48.0	
76 1,1,2,2-Tetrachloroethane	83	8.424	8.425	(0.924)	131703	49.7587	49.8	
77 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	121768	176.326	176(Q)	
78 1,2,3-Trichloropropane	110	8.455	8.458	(0.927)	44332	50.8254	50.8(Q)	
79 n-Propylbenzene	91	8.488	8.489	(0.931)	521892	53.7690	53.8	
80 2-Chlorotoluene	91	8.544	8.544	(0.937)	304686	49.5266	49.5	
81 1,3,5-Trimethylbenzene	105	8.619	8.622	(0.945)	367446	49.4323	49.4	
82 4-Chlorotoluene	126	8.636	8.633	(0.947)	117501	50.0326	50.0	
83 tert-Butylbenzene	119	8.833	8.834	(0.969)	327484	40.6165	40.6	
84 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	393593	50.9705	51.0	
85 sec-Butylbenzene	105	8.986	8.987	(0.986)	450759	51.7352	51.7	
86 1,3-Dichlorobenzene	146	9.064	9.067	(0.994)	252095	52.7384	52.7	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	391907	52.0229	52.0	
* 88 1,4-Dichlorobenzene-d4	152	9.117	9.120	(1.000)	119314	50.0000	(Q)	
89 1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	256115	49.5040	49.5	
90 1,2-Dichlorobenzene	146	9.365	9.368	(1.027)	248301	52.6705	52.7	
91 n-Butylbenzene	91	9.357	9.359	(1.026)	311691	50.8525	50.8	
92 1,2-Dibromo-3-chloropropane	155	9.871	9.874	(1.083)	30988	52.6295	52.6	
93 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	162592	54.5106	54.5	
94 Hexachlorobutadiene	225	10.453	10.453	(1.146)	63242	53.8060	53.8	
95 Naphthalene	128	10.533	10.533	(1.155)	448069	49.7940	49.8	
96 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	153566	53.6382	53.6	
97 2,methyl-naphthalene	142	11.226	11.226	(1.231)	201323	47.8212	47.8	
98 1-Methylnaphthalene	142	11.346	11.349	(1.244)	211205	57.5190	57.5	

QC Flag Legend

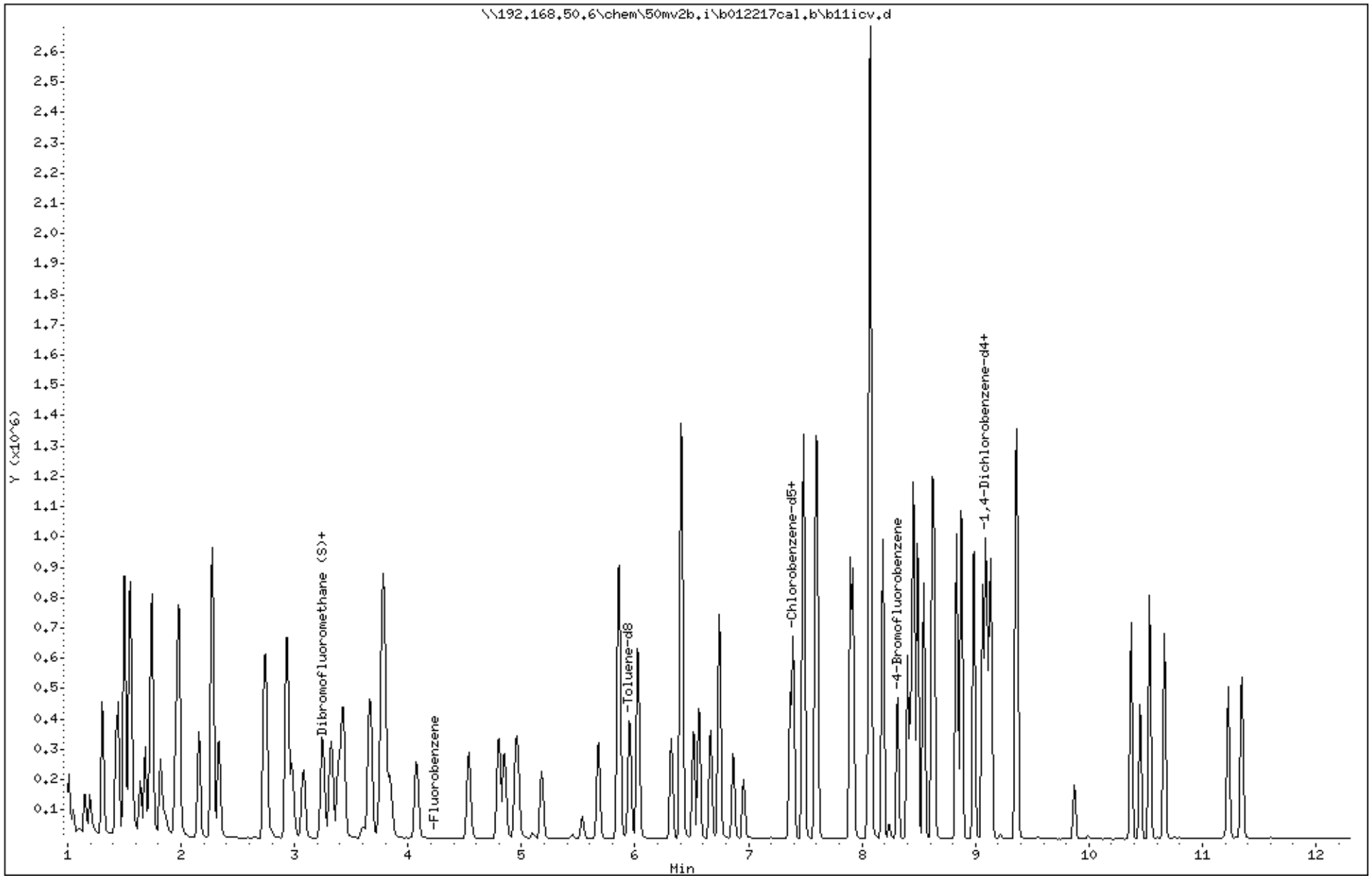
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d
Date : 23-JAN-2017 03:07
Client ID: 8260-ICV,140434:5
Sample Info: 8260-ICV,140434:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

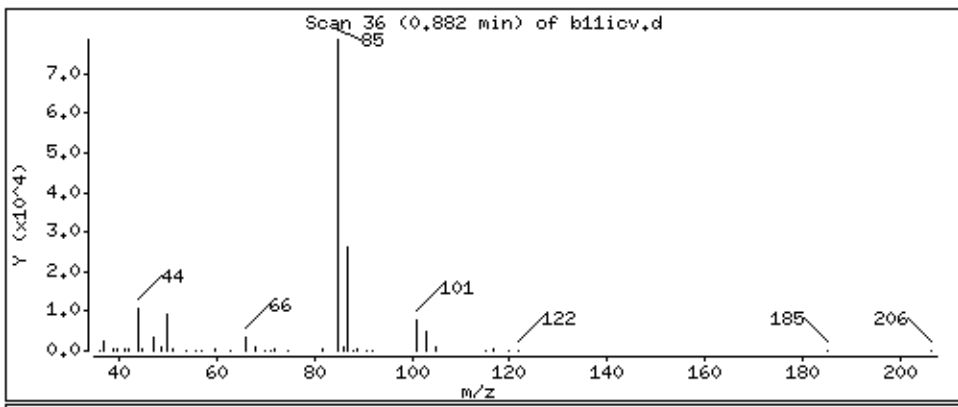
Operator: dae

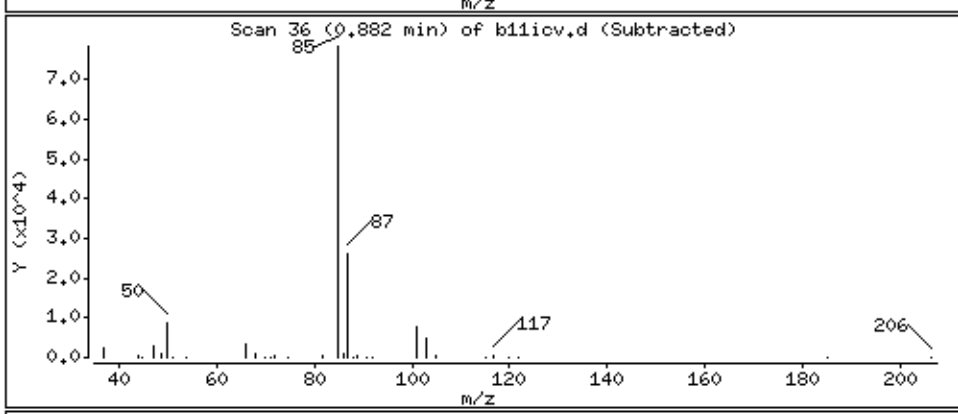
Column phase: DB-624

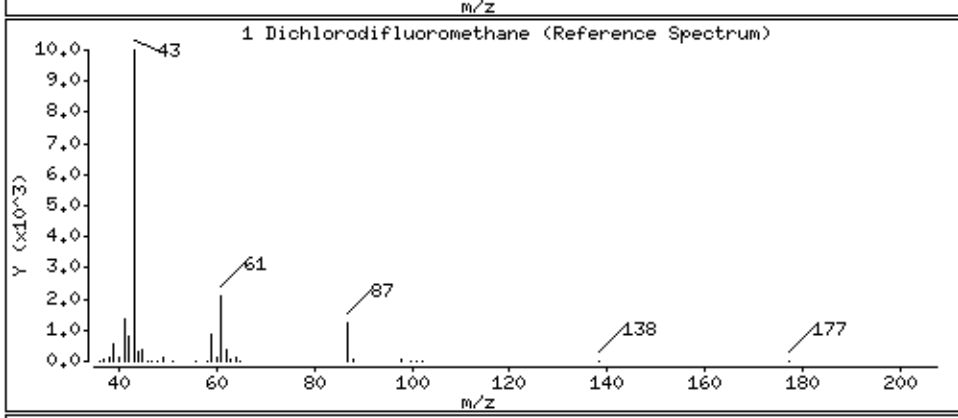
Column diameter: 0.18

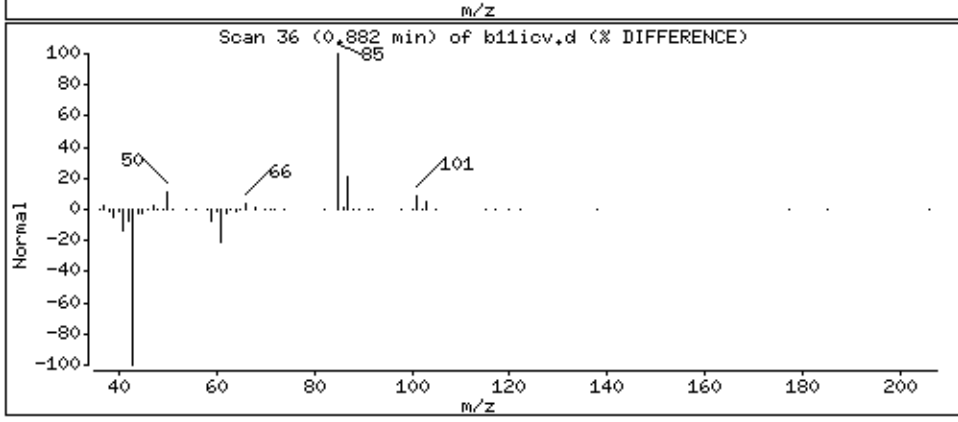
1 Dichlorodifluoromethane

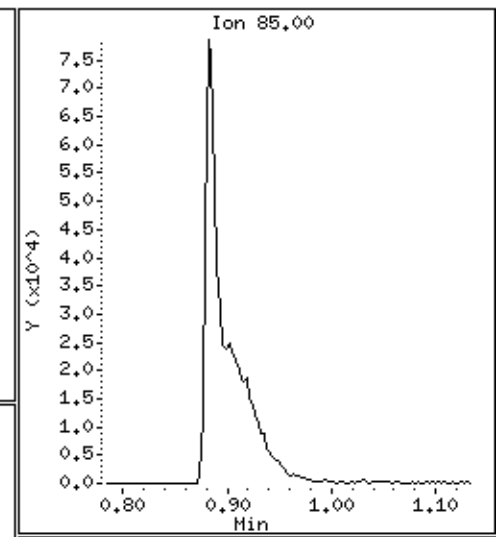
Concentration: 70.8 ppb

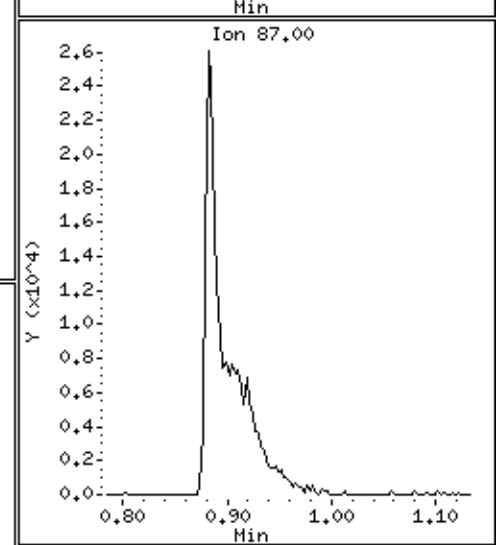


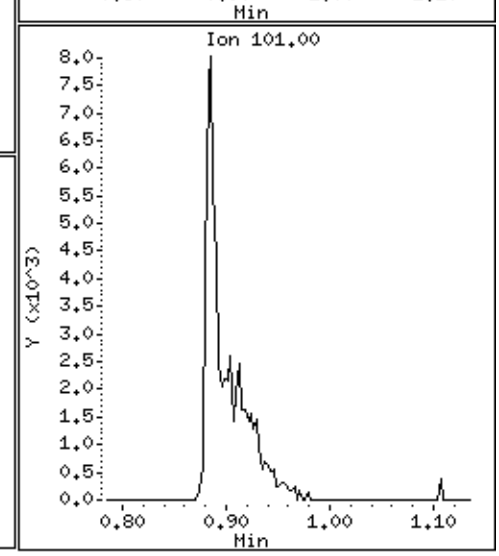












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

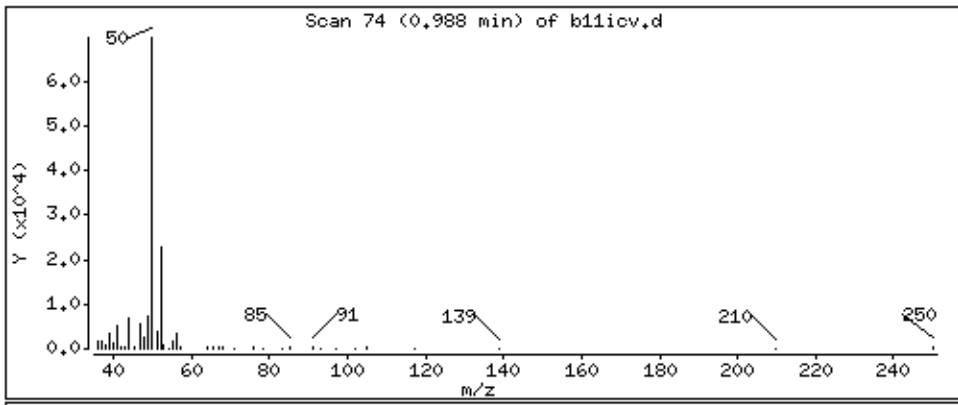
Operator: dae

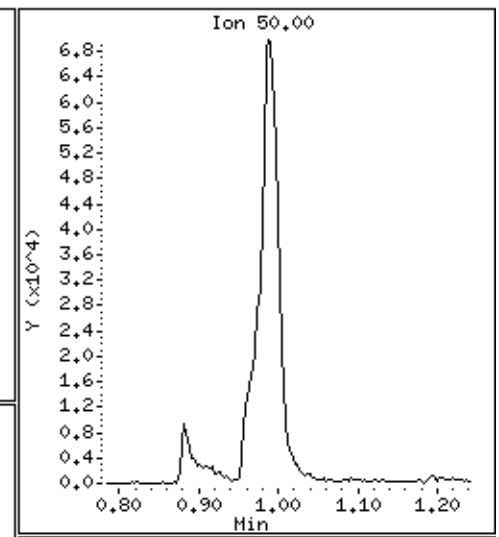
Column phase: DB-624

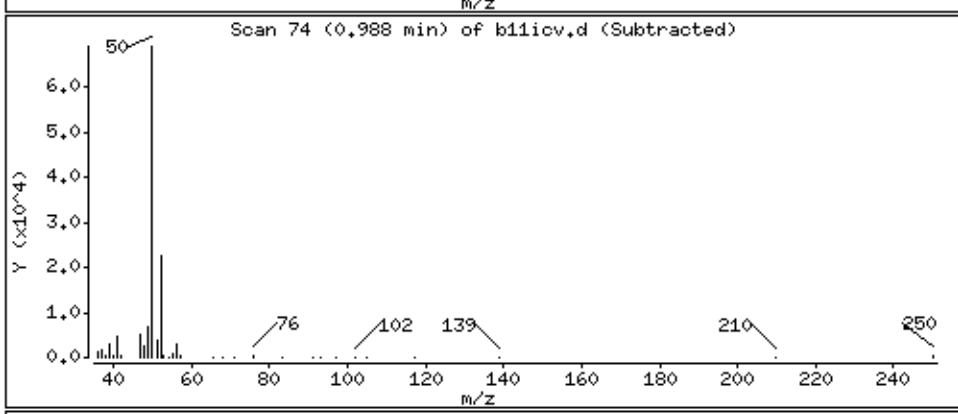
Column diameter: 0.18

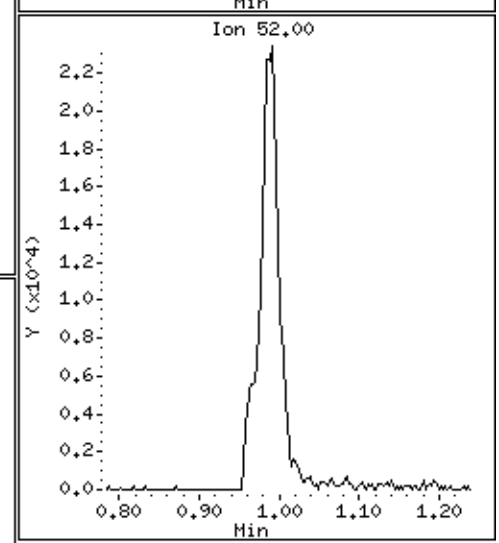
2 Chloromethane

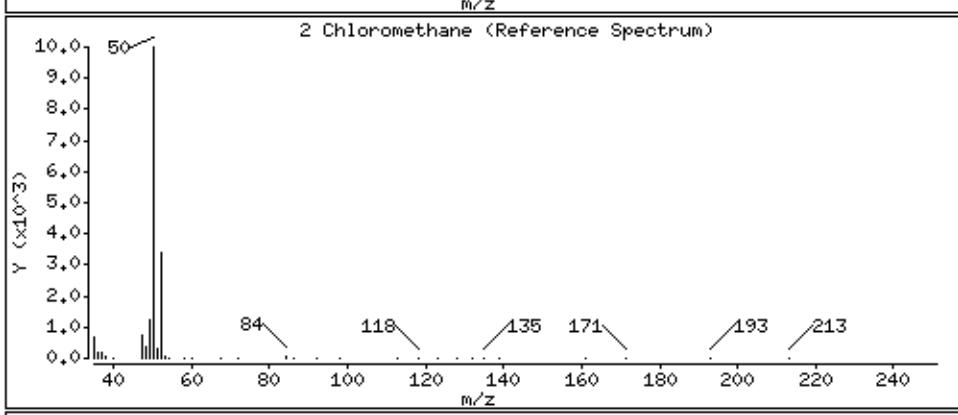
Concentration: 50.5 ppb

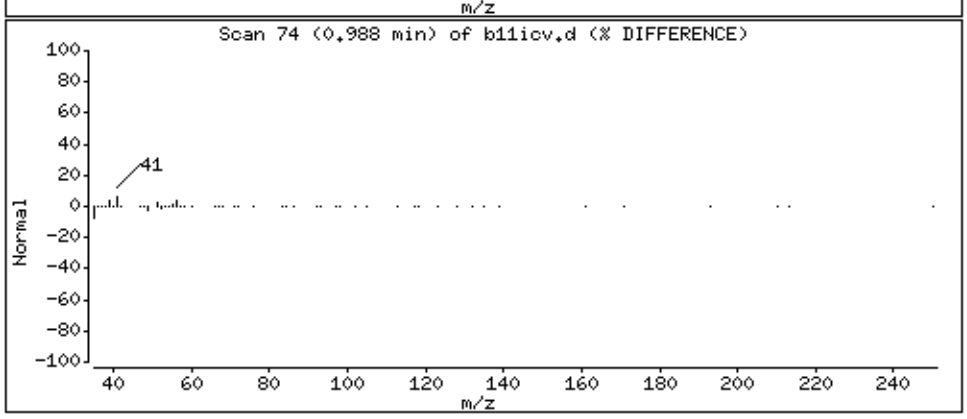












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

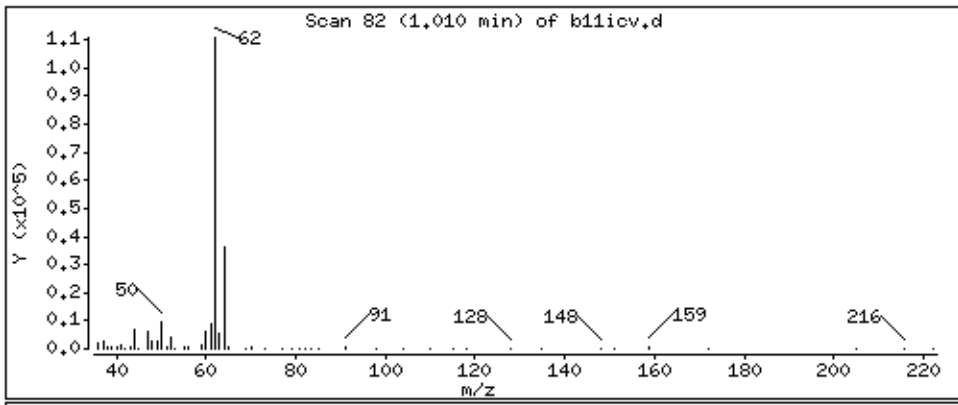
Operator: dae

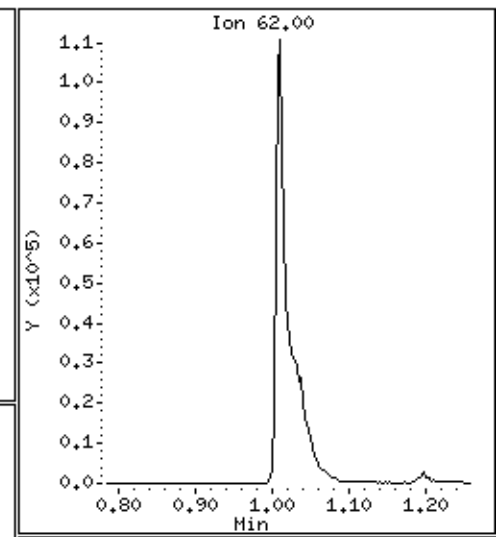
Column phase: DB-624

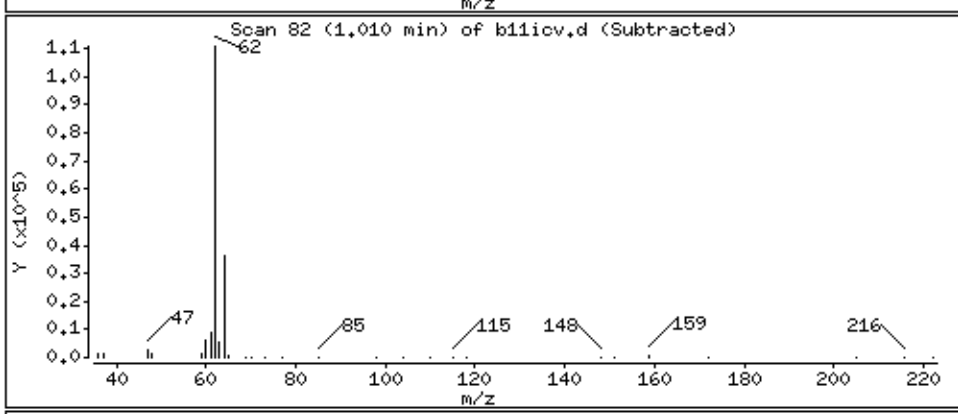
Column diameter: 0.18

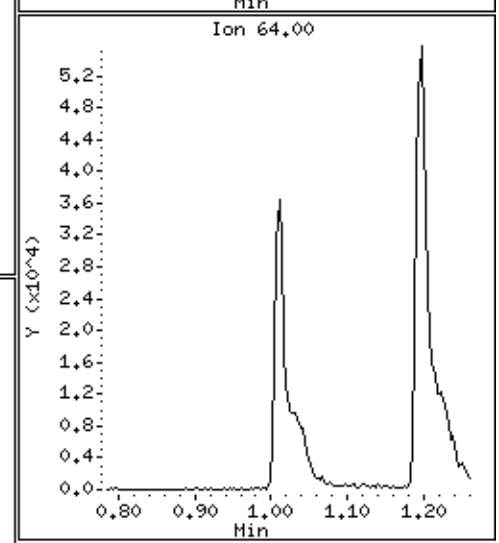
3 Vinyl Chloride

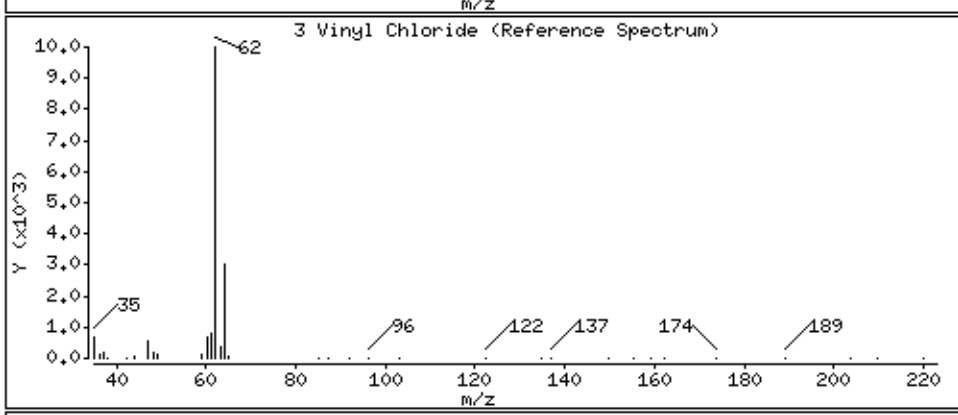
Concentration: 59.5 ppb

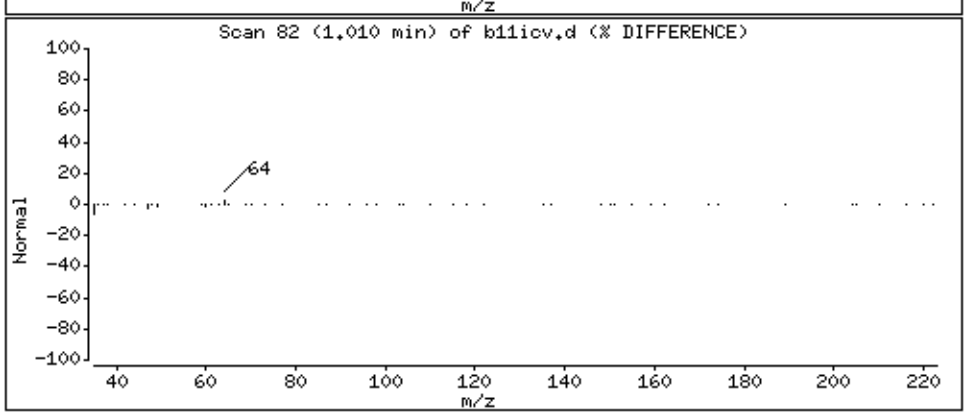












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

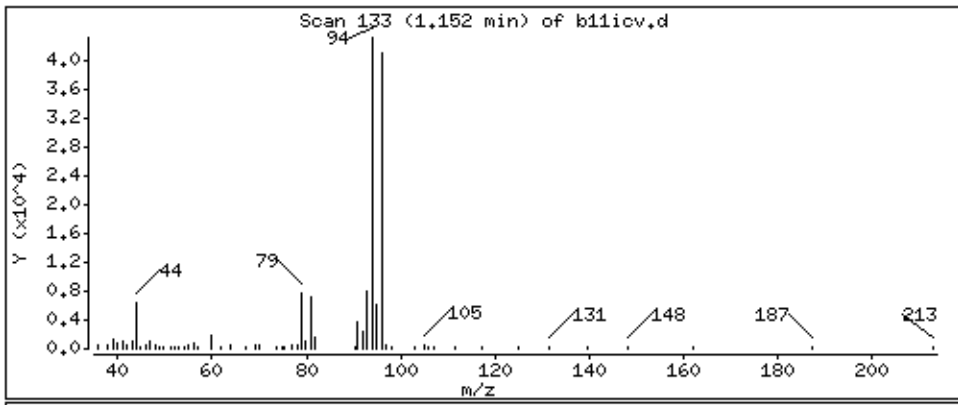
Operator: dae

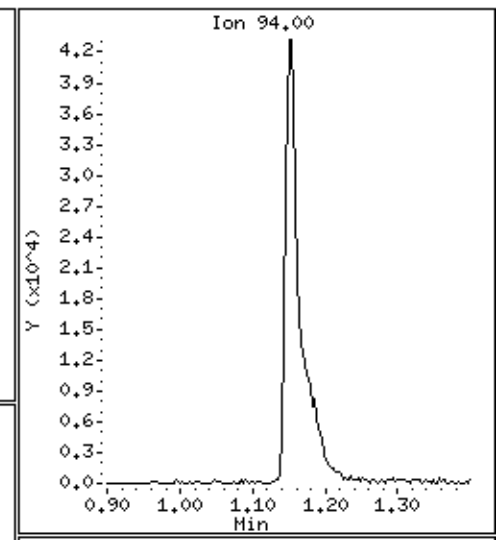
Column phase: DB-624

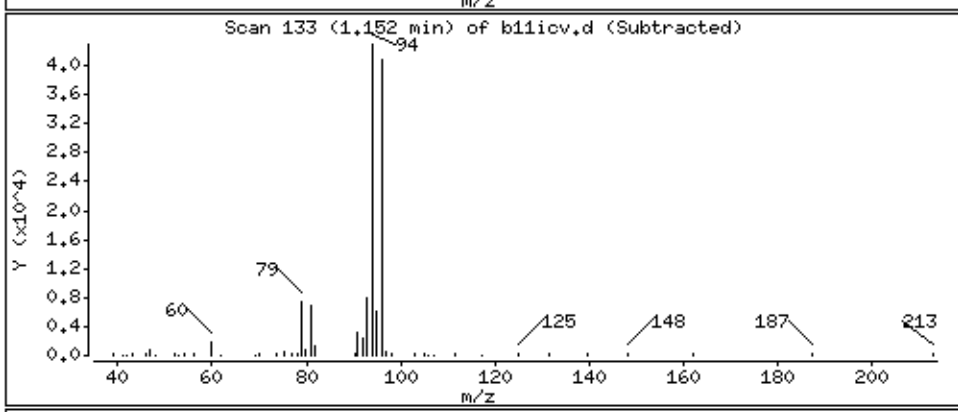
Column diameter: 0.18

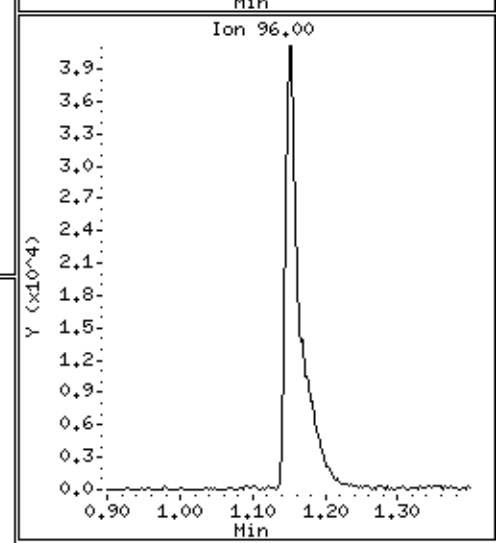
4 Bromomethane

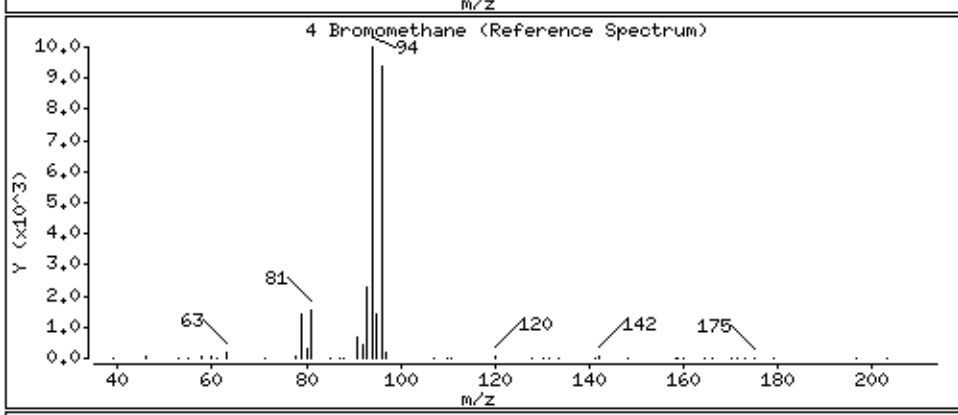
Concentration: 79.5 ppb

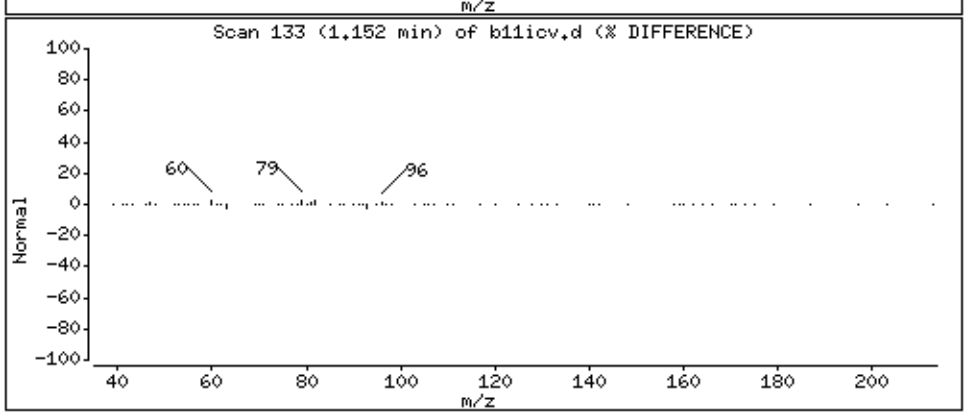












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

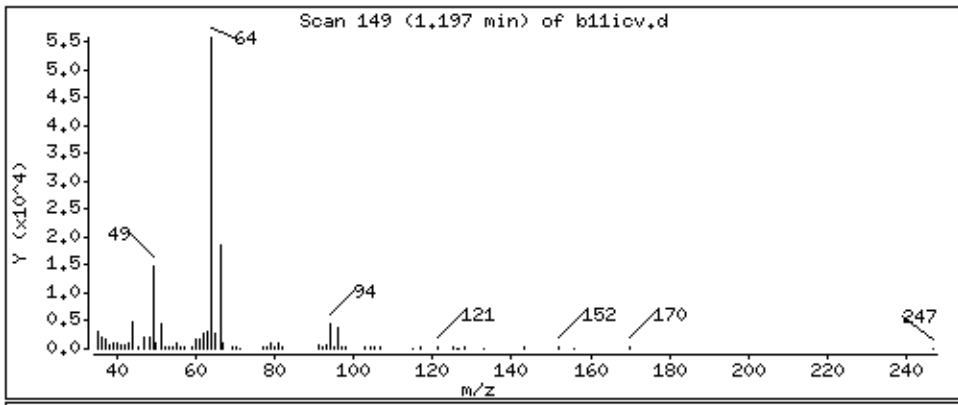
Operator: dae

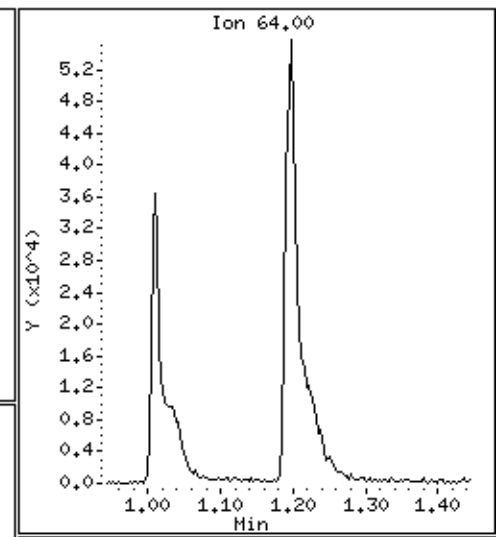
Column phase: DB-624

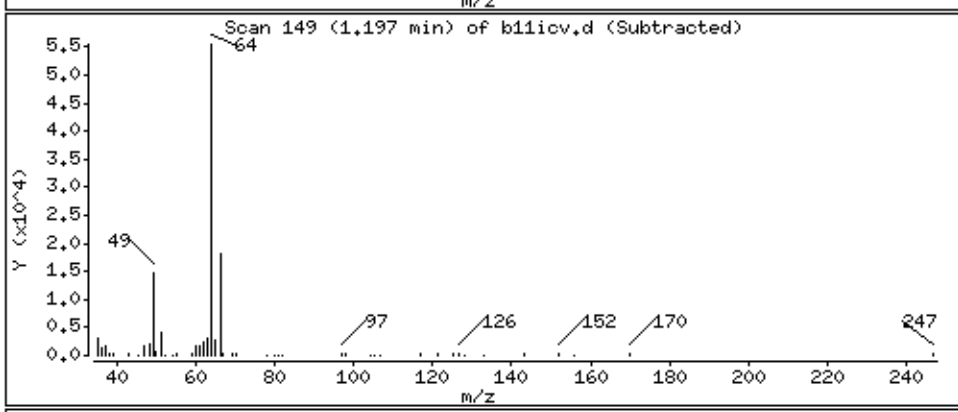
Column diameter: 0.18

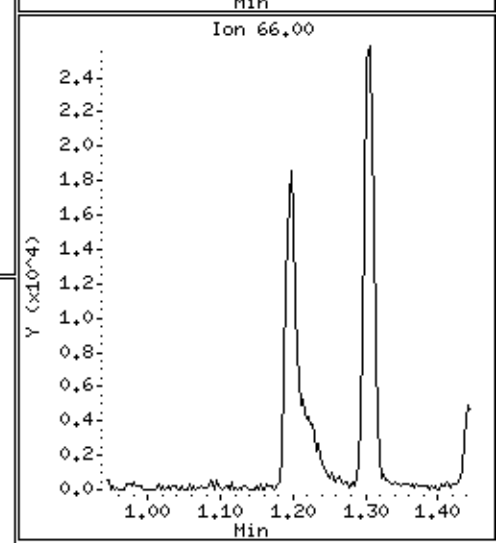
5 Chloroethane

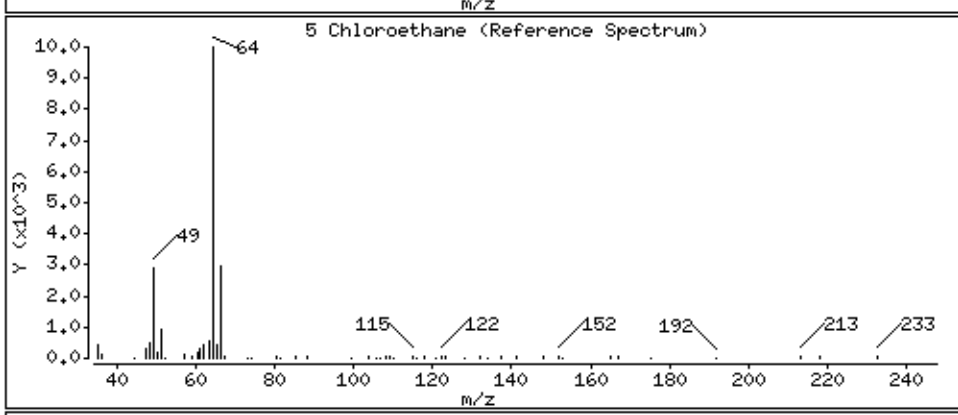
Concentration: 53.7 ppb

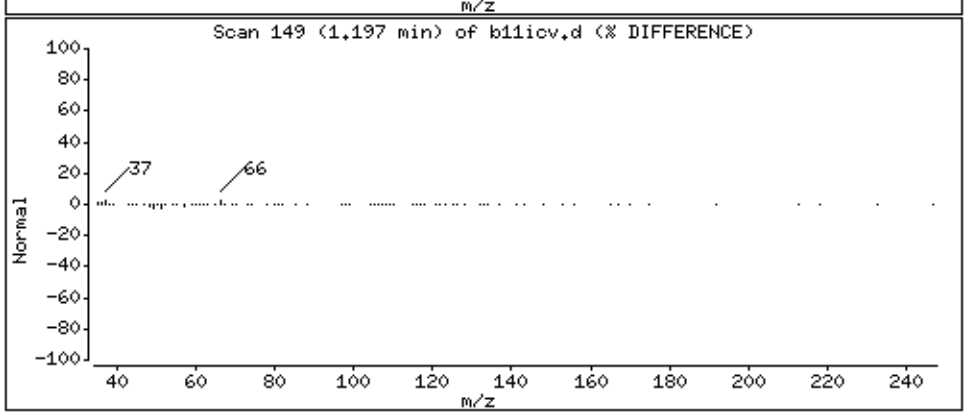












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

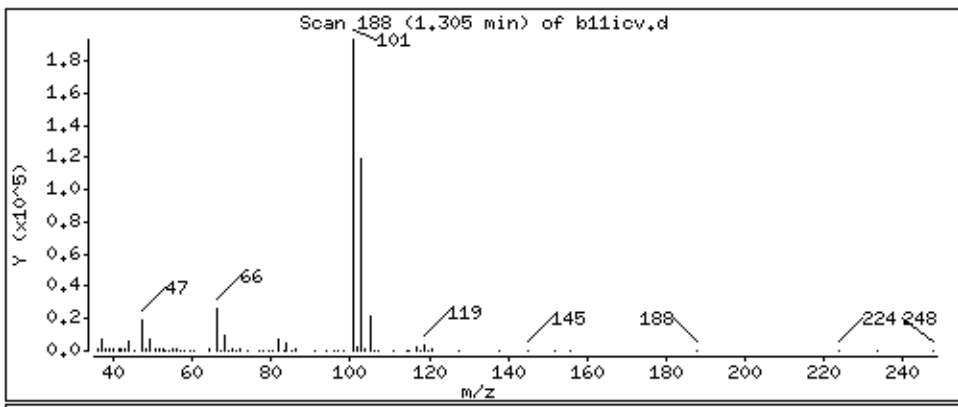
Operator: dae

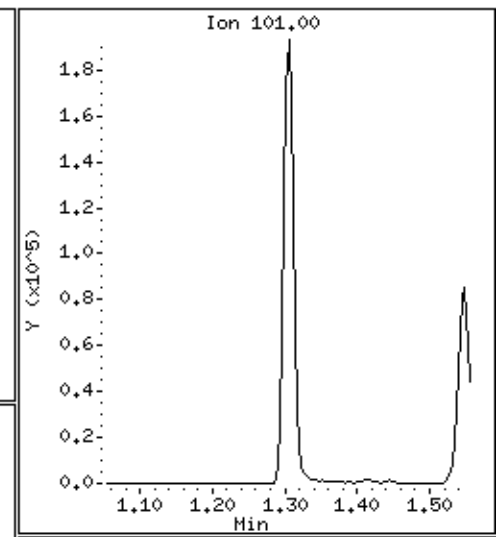
Column phase: DB-624

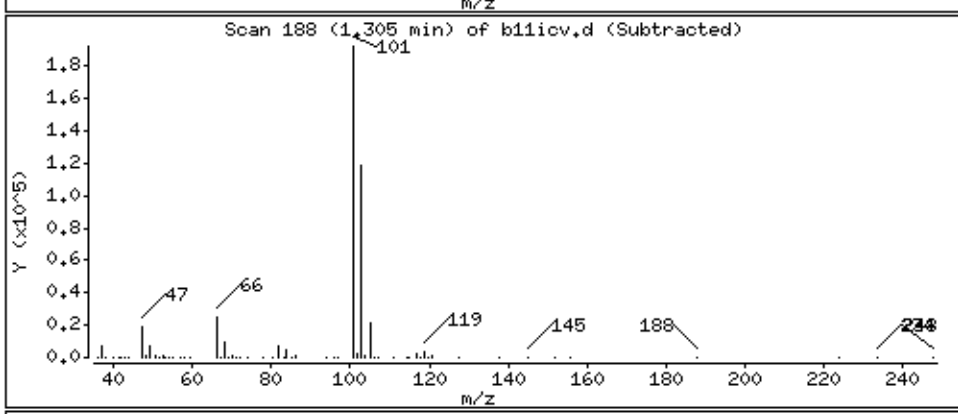
Column diameter: 0.18

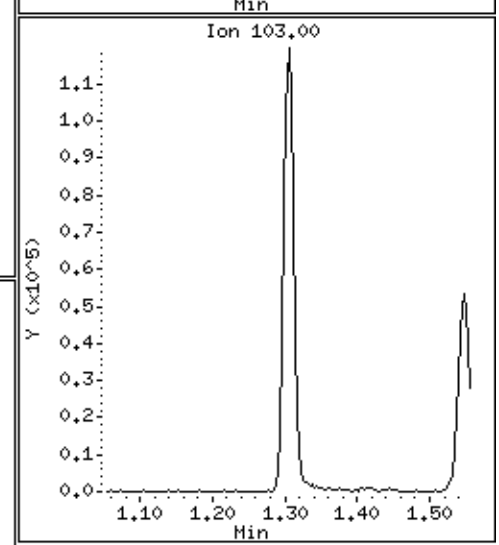
6 Trichlorofluoromethane

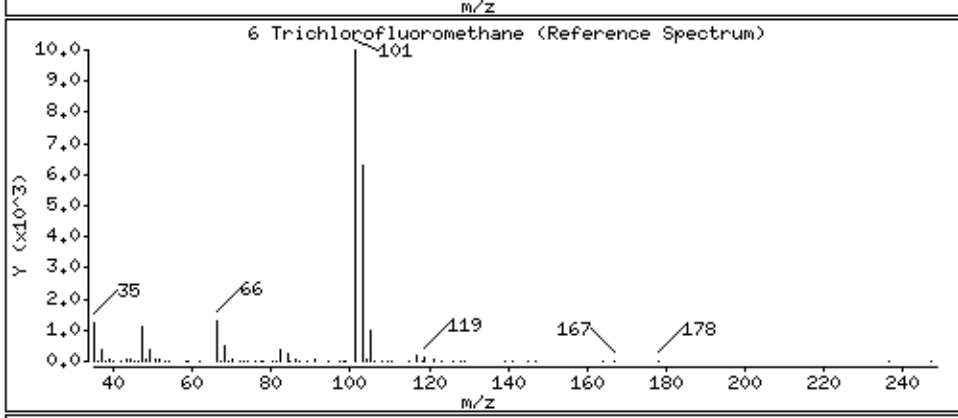
Concentration: 63.4 ppb

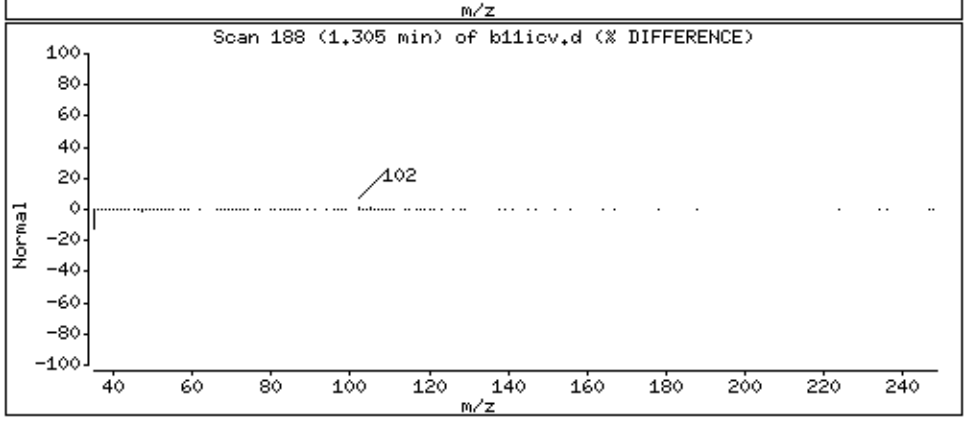












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

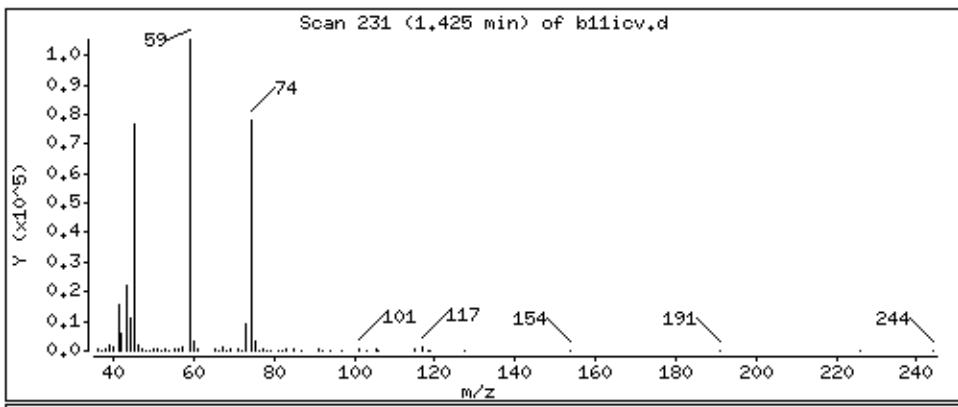
Operator: dae

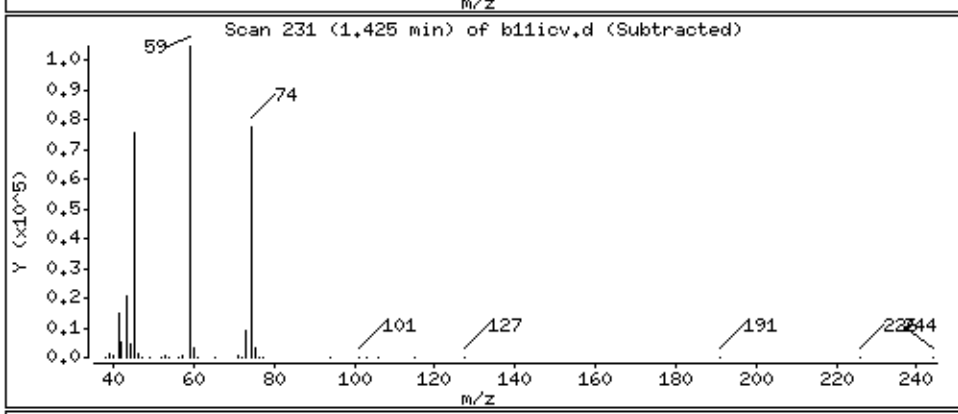
Column phase: DB-624

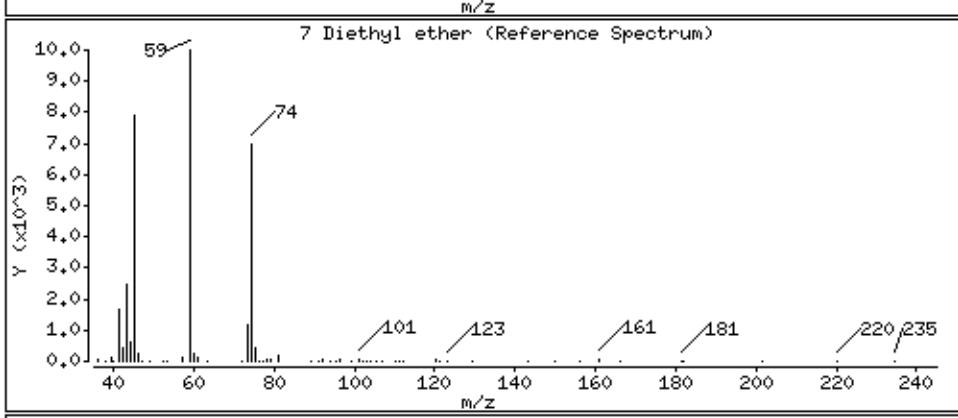
Column diameter: 0.18

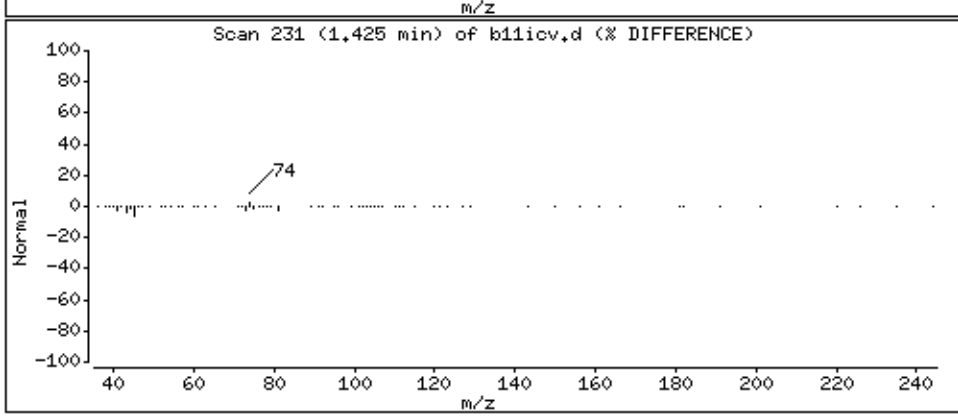
7 Diethyl ether

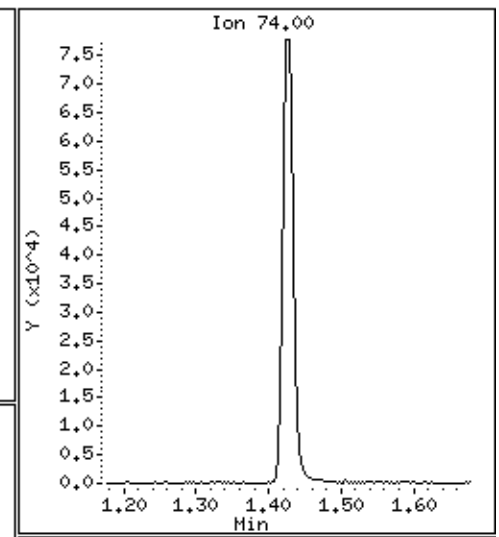
Concentration: 48.3 ppb

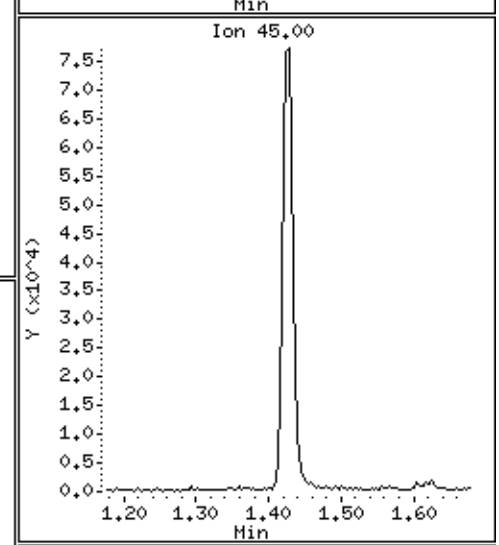


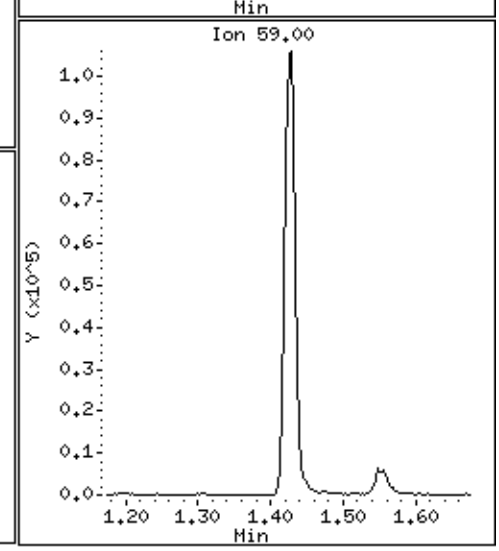












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

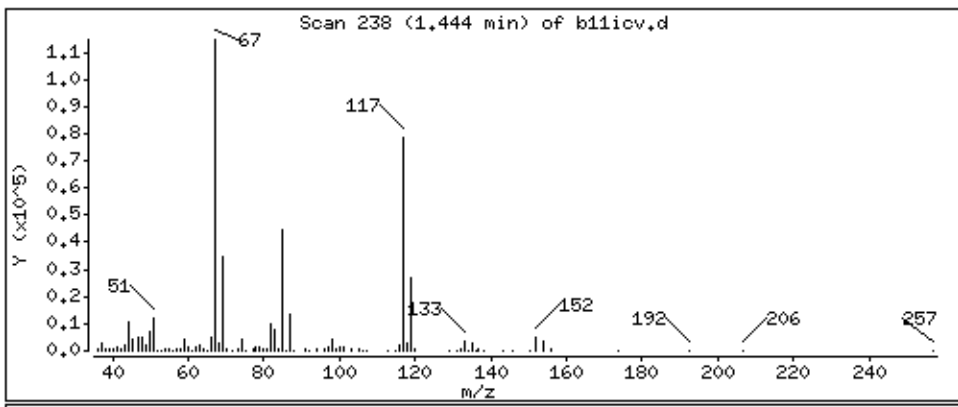
Operator: dae

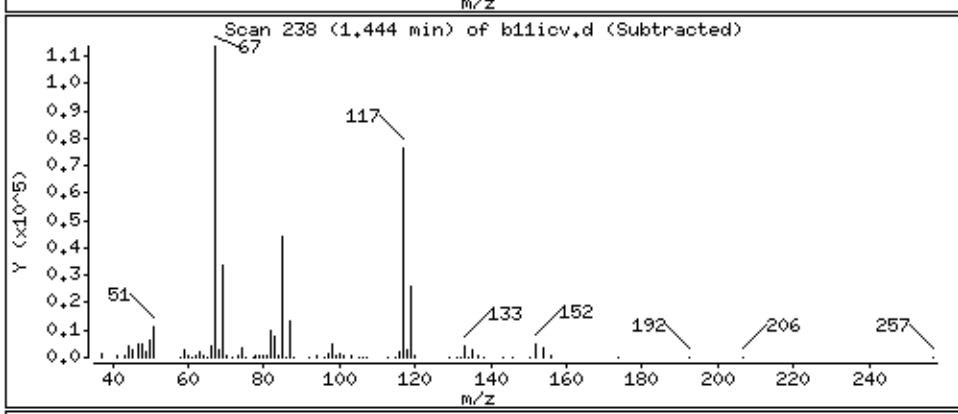
Column phase: DB-624

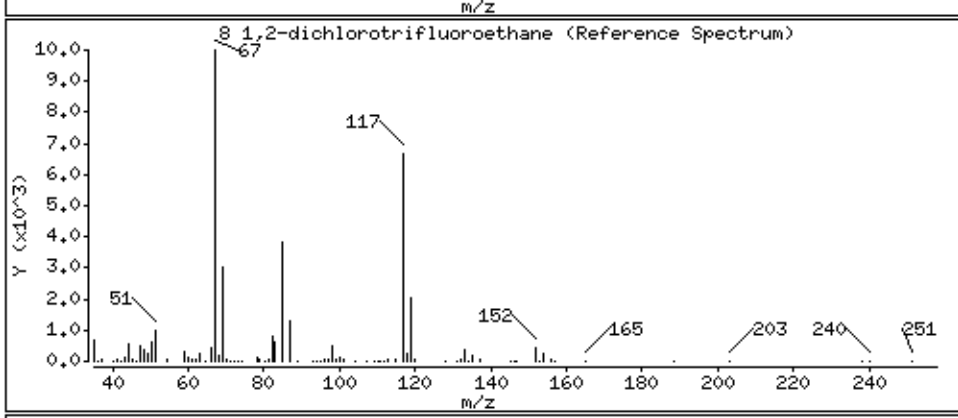
Column diameter: 0.18

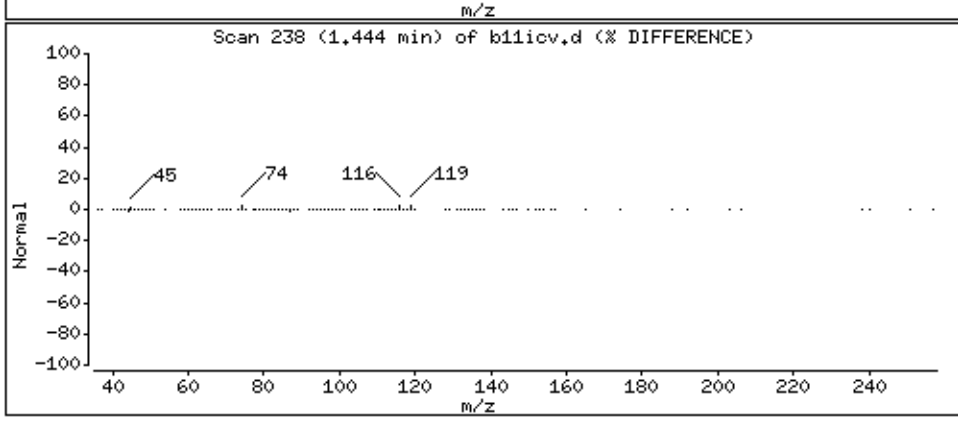
8 1,2-dichlorotrifluoroethane

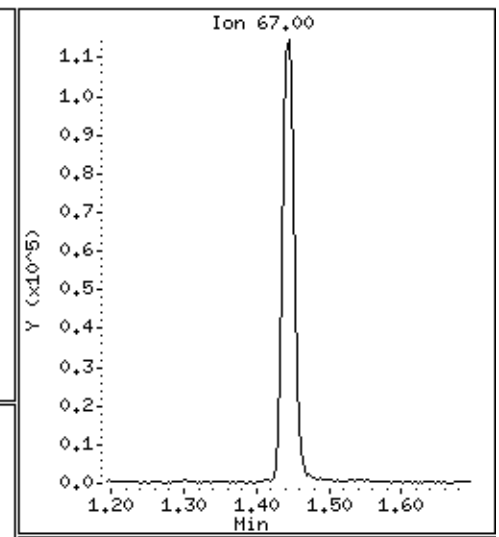
Concentration: 51.1 ppb

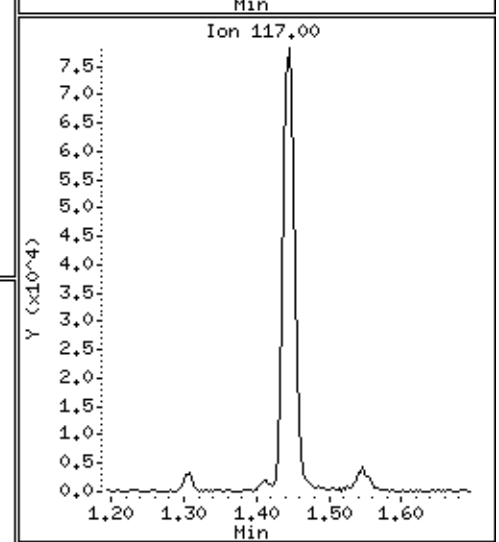


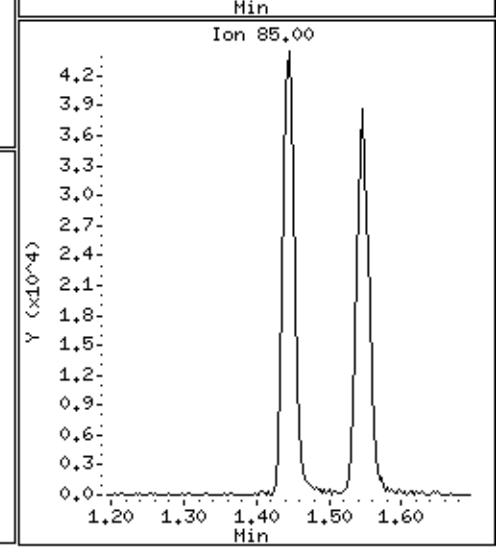












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

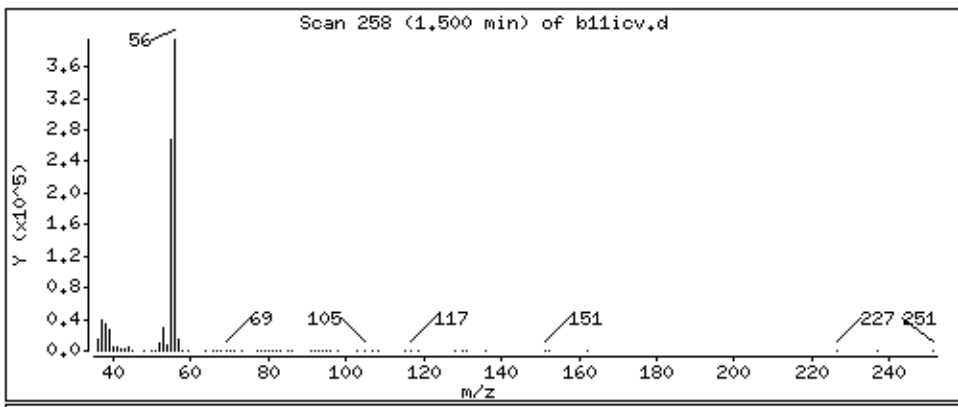
Operator: dae

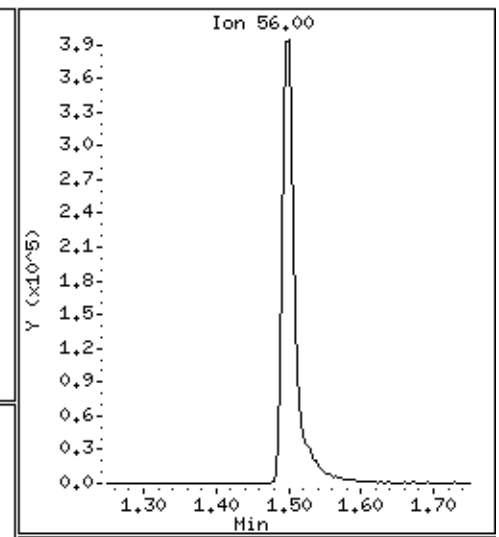
Column phase: DB-624

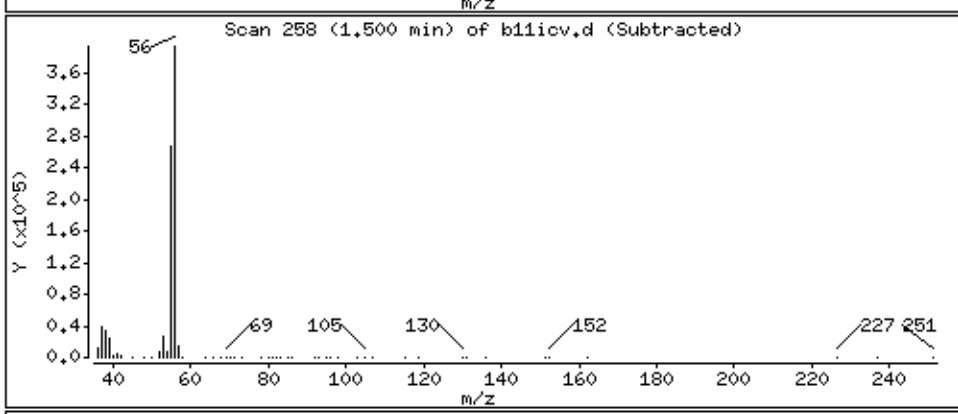
Column diameter: 0.18

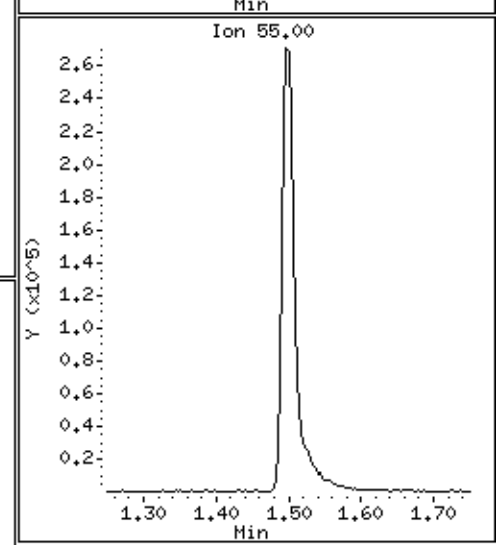
9 Acrolein

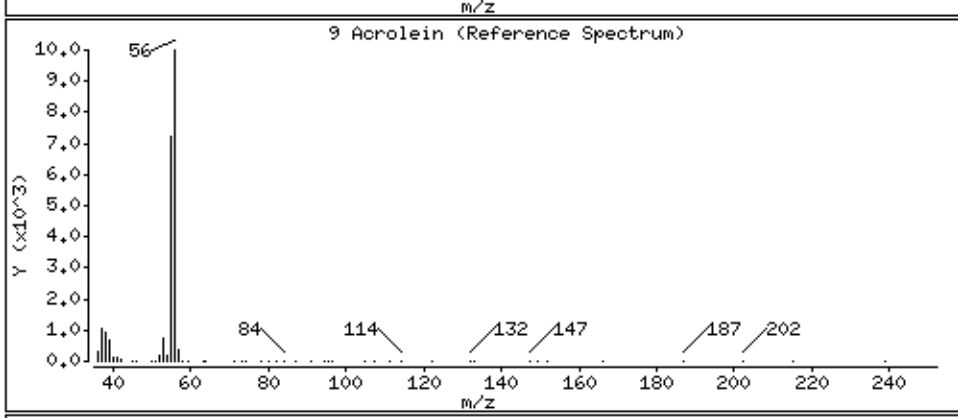
Concentration: 1380 ppb

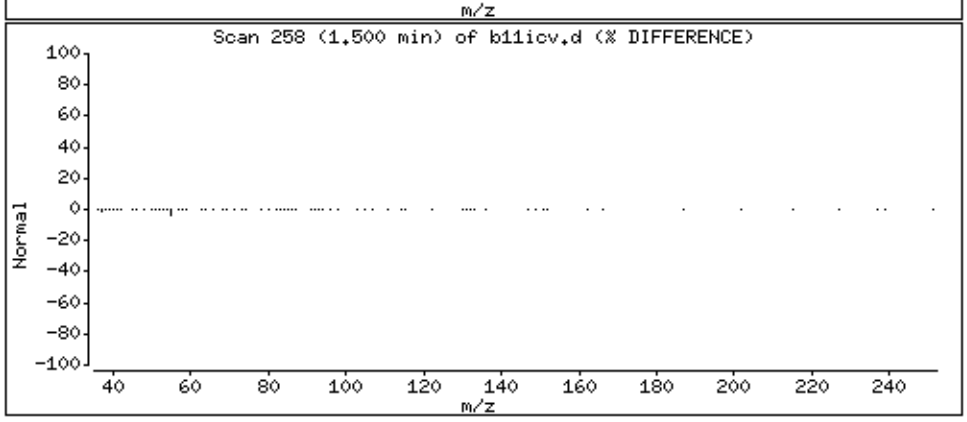












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Date : 23-JAN-2017 03:07

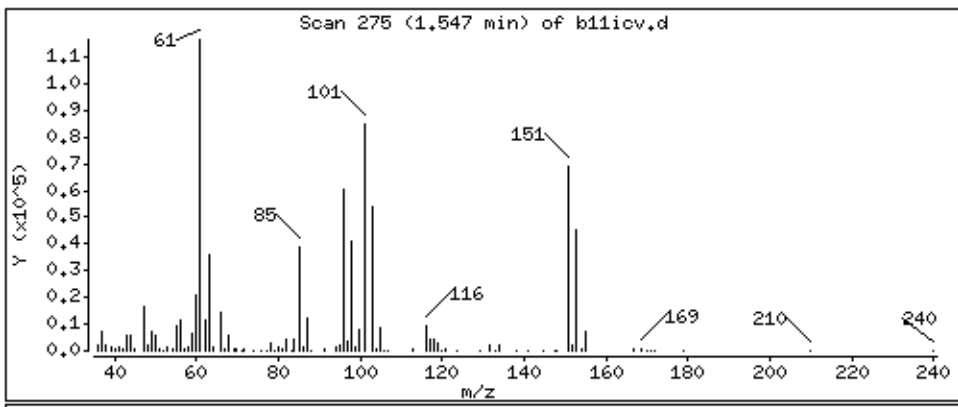
Client ID: 8260-ICV,140434:5 Instrument: 50mv2b.i

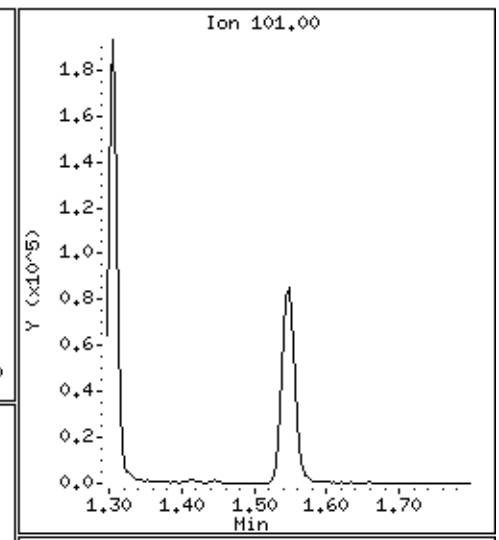
Sample Info: 8260-ICV,140434:5

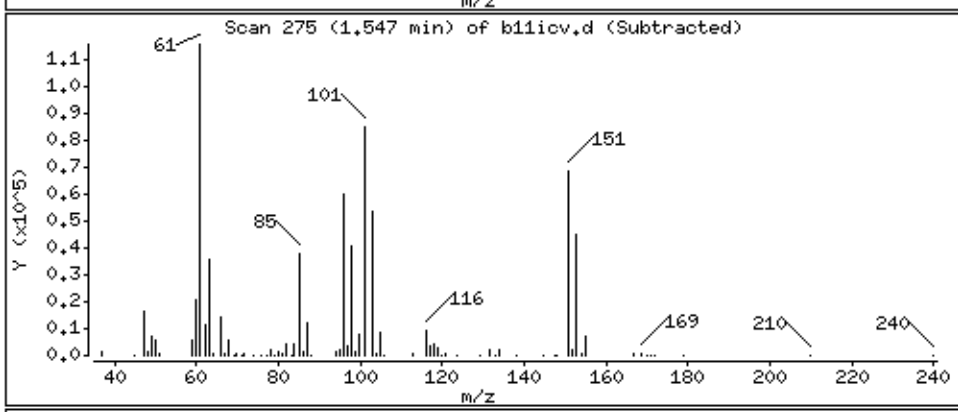
Purge Volume: 5.0 Operator: dae

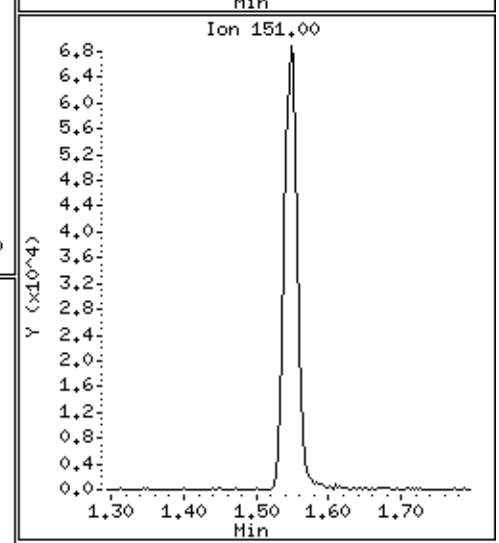
Column phase: DB-624 Column diameter: 0.18

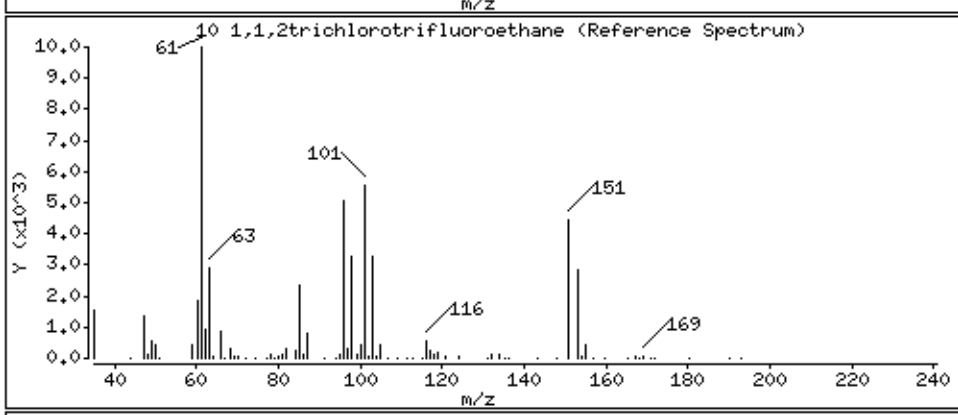
10 1,1,2trichlorotrifluoroethane Concentration: 49.7 ppb

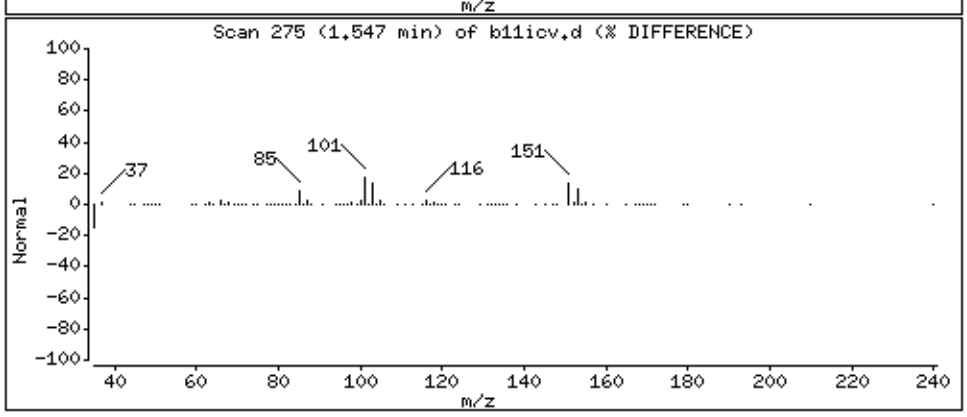












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

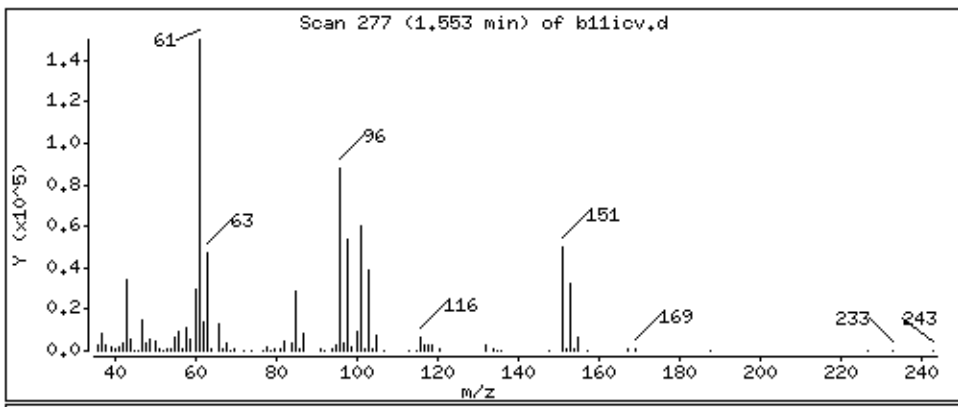
Operator: dae

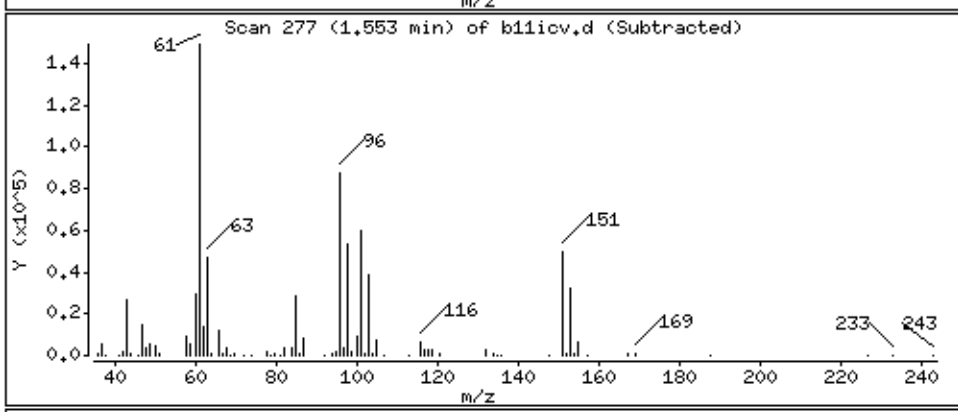
Column phase: DB-624

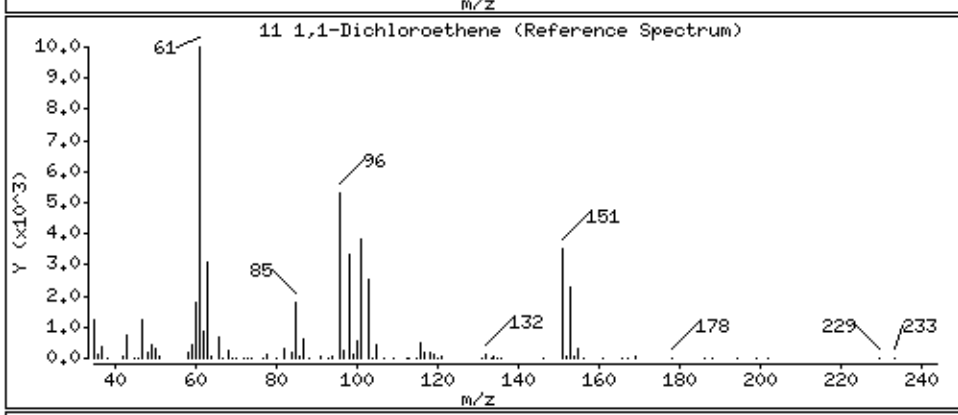
Column diameter: 0.18

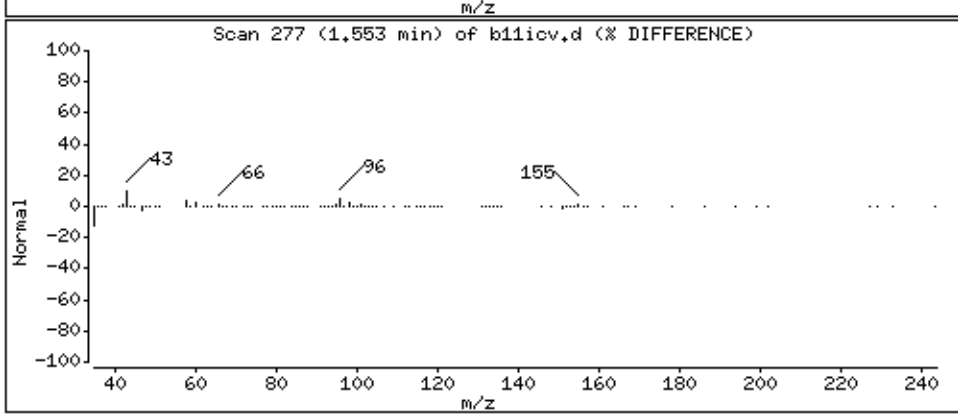
11 1,1-Dichloroethene

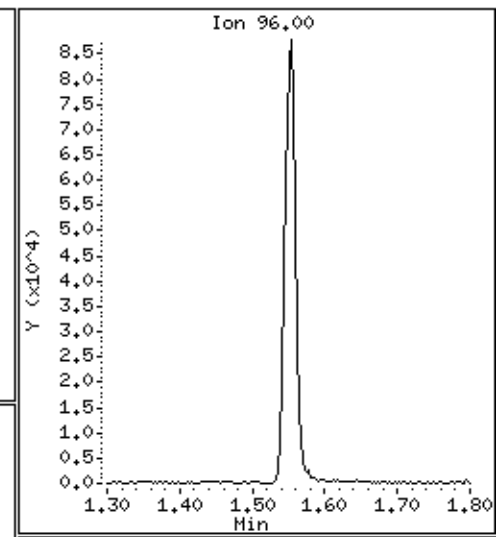
Concentration: 52.2 ppb

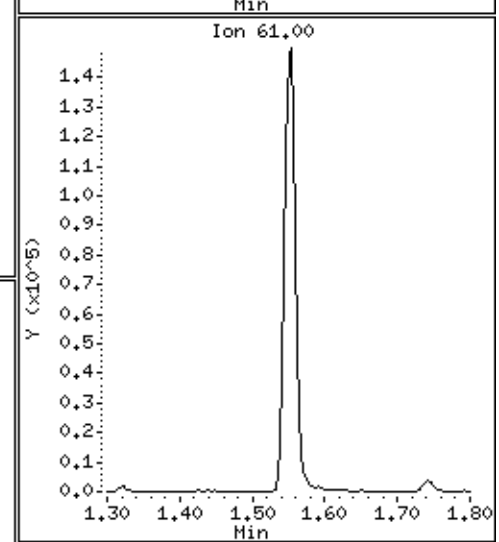


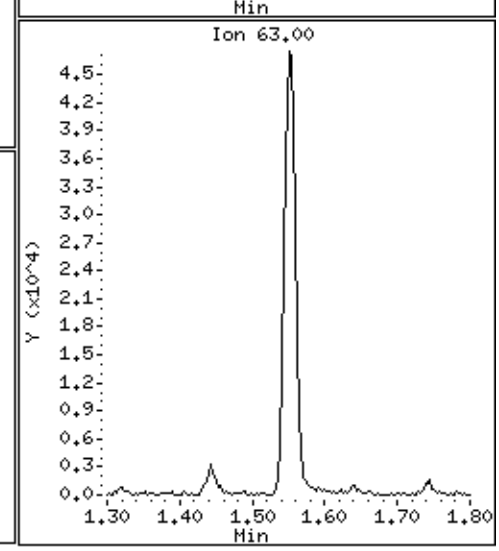












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

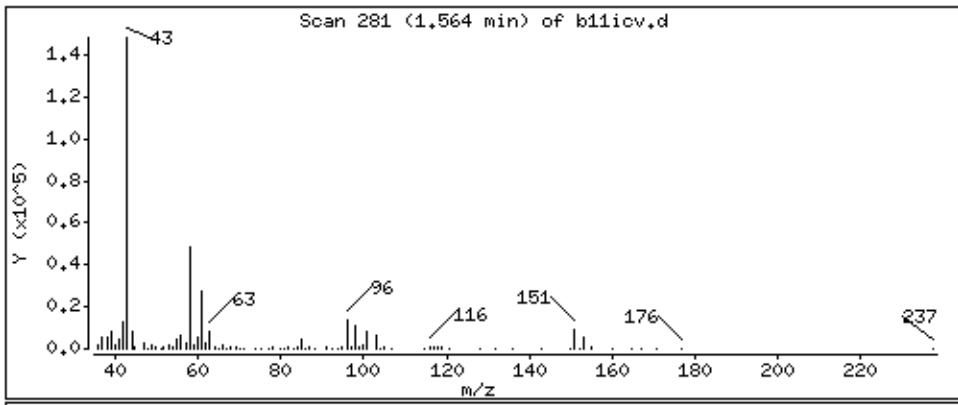
Operator: dae

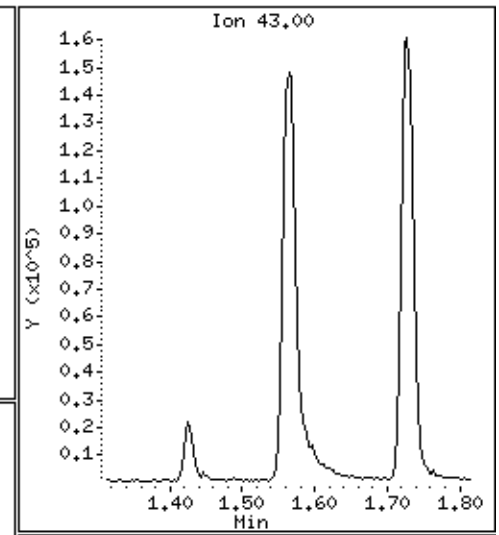
Column phase: DB-624

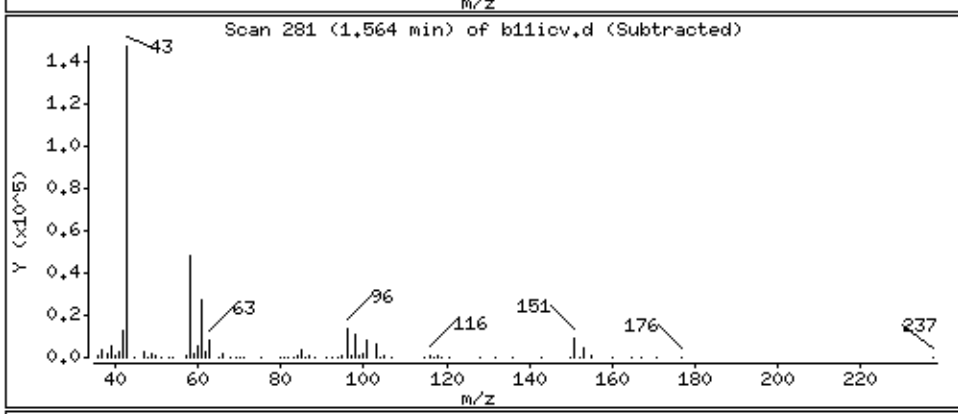
Column diameter: 0.18

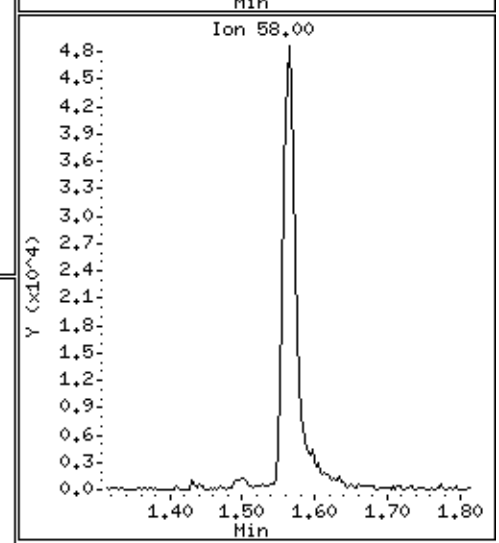
12 Acetone

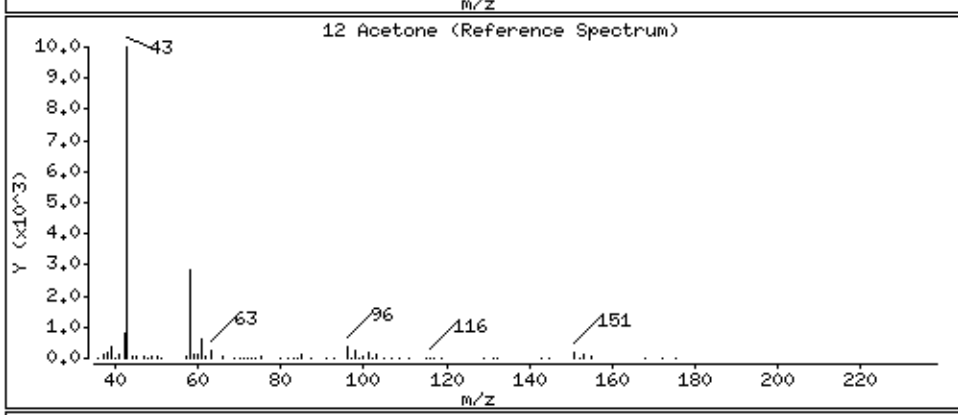
Concentration: 268 ppb

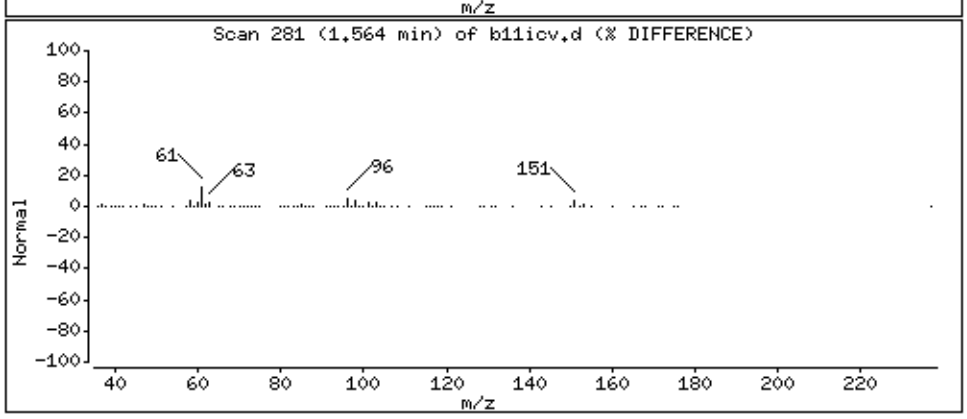












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

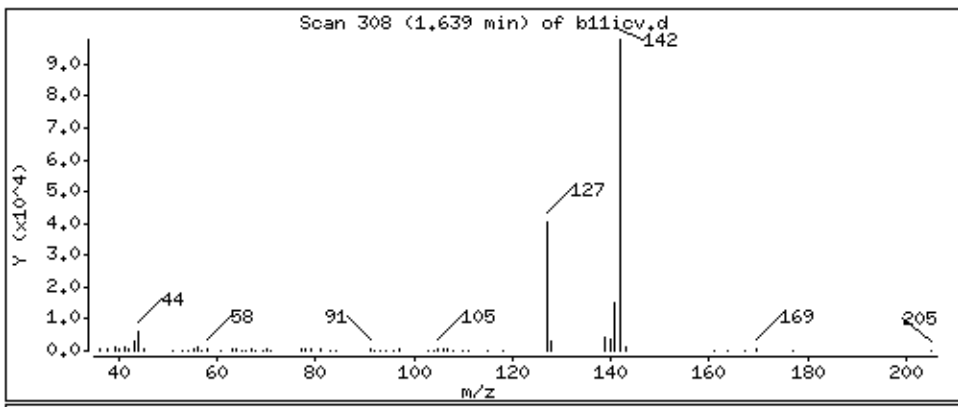
Operator: dae

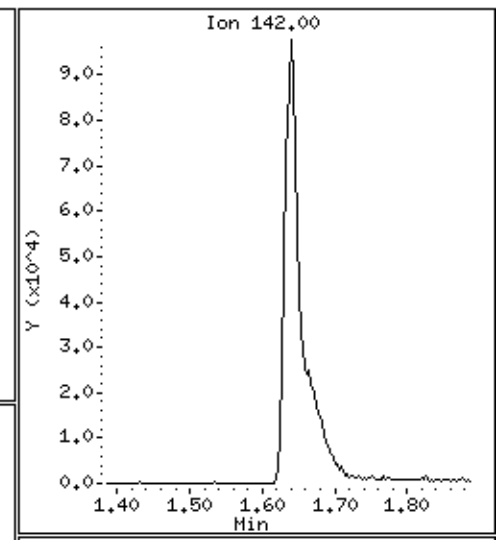
Column phase: DB-624

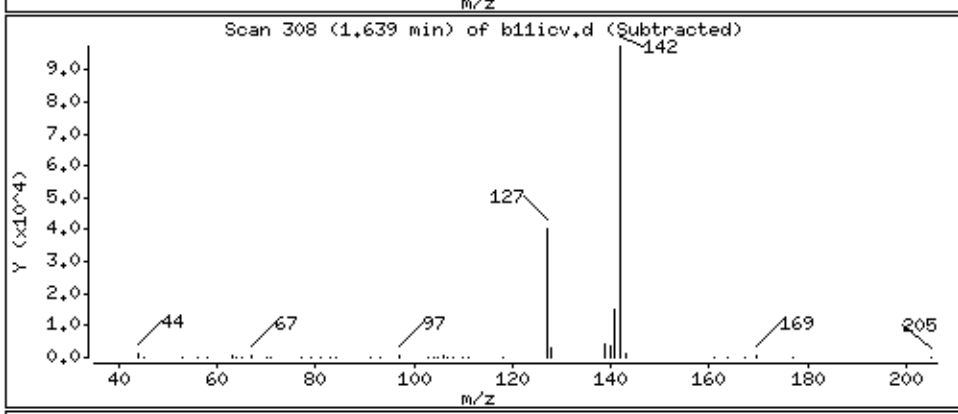
Column diameter: 0.18

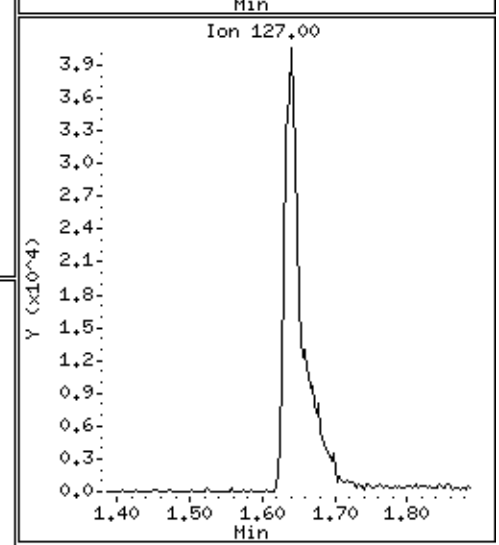
13 Iodomethane

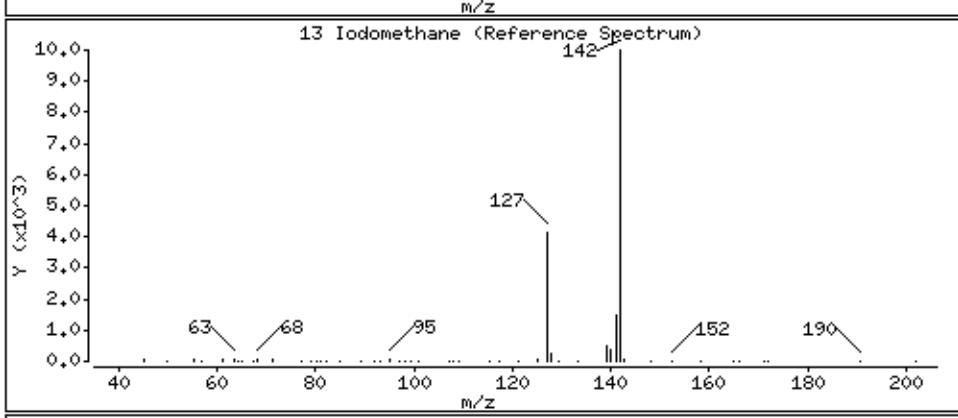
Concentration: 102 ppb

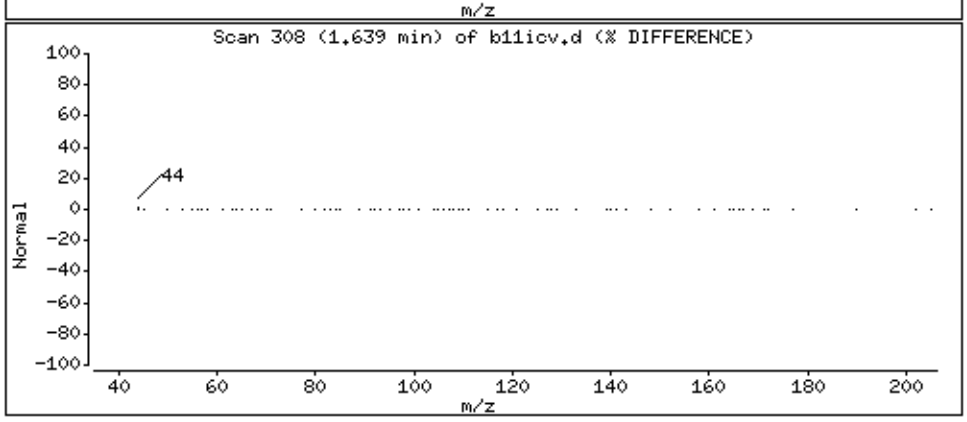












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

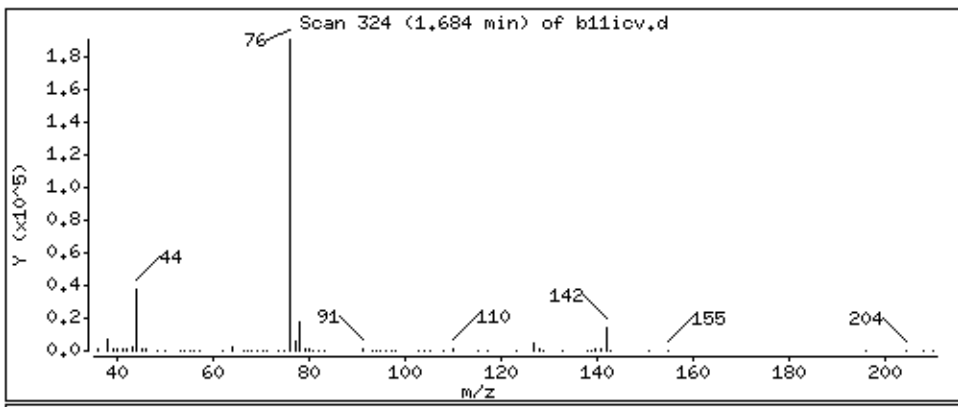
Operator: dae

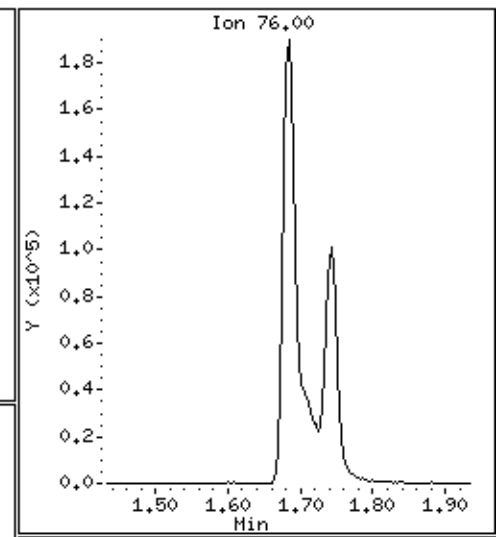
Column phase: DB-624

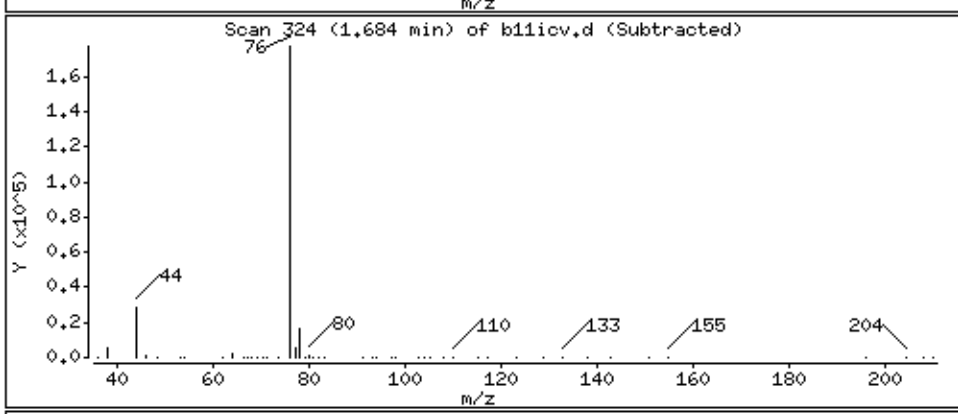
Column diameter: 0.18

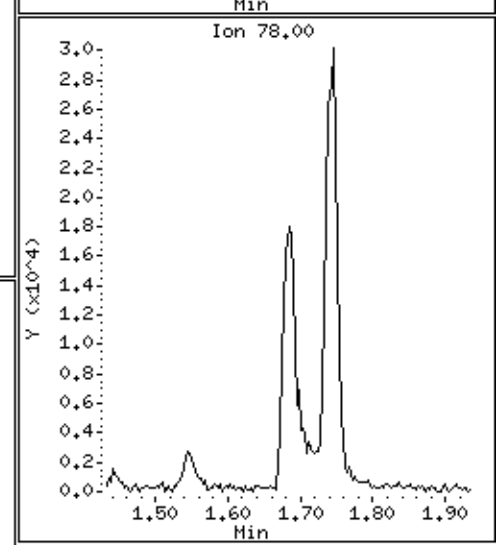
14 Carbon Disulfide

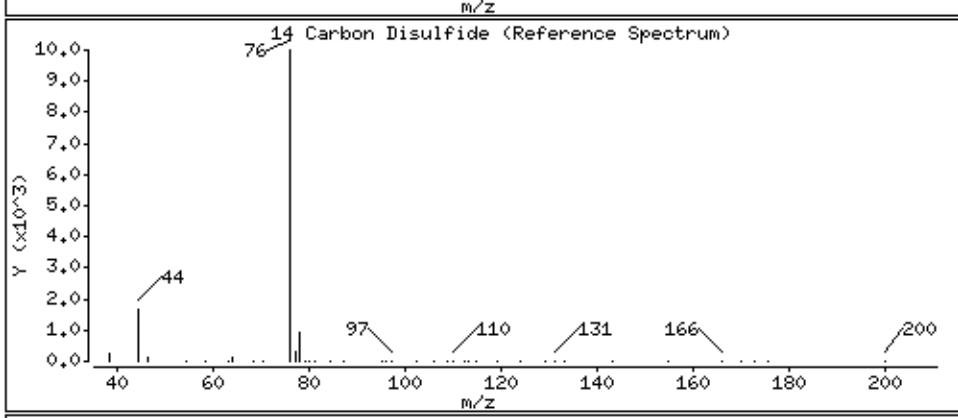
Concentration: 58.4 ppb

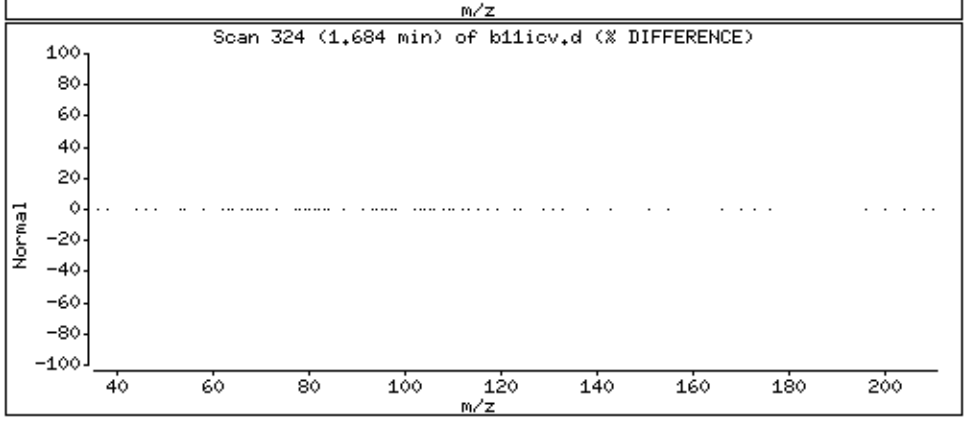












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

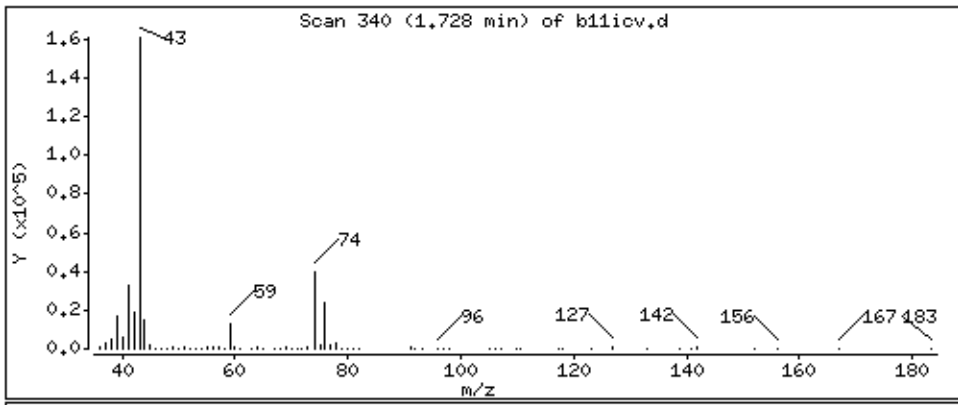
Operator: dae

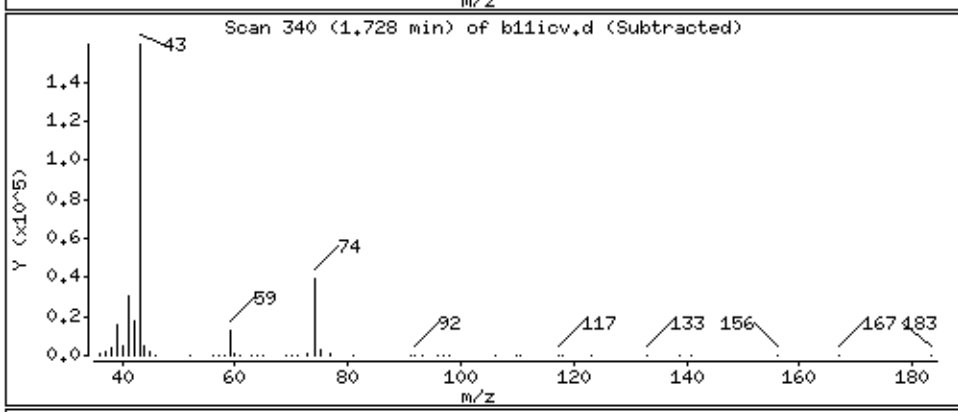
Column phase: DB-624

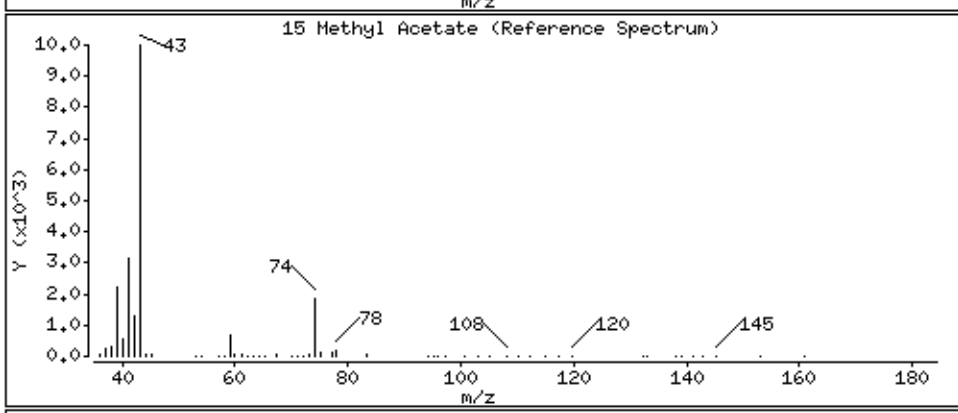
Column diameter: 0.18

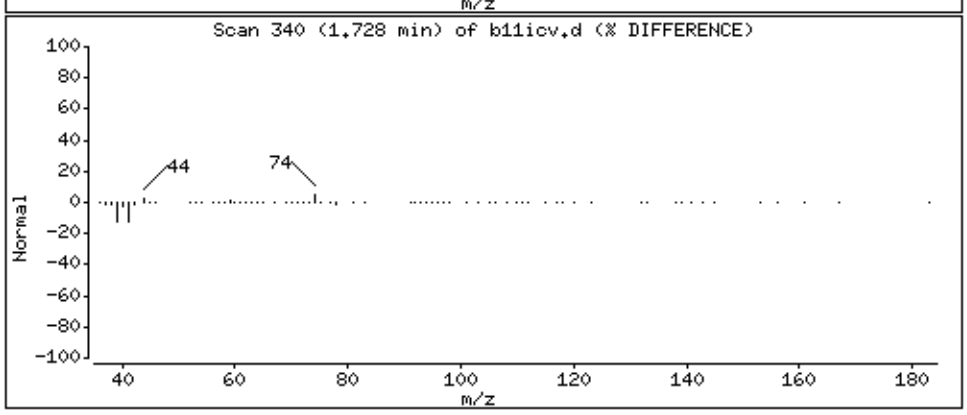
15 Methyl Acetate

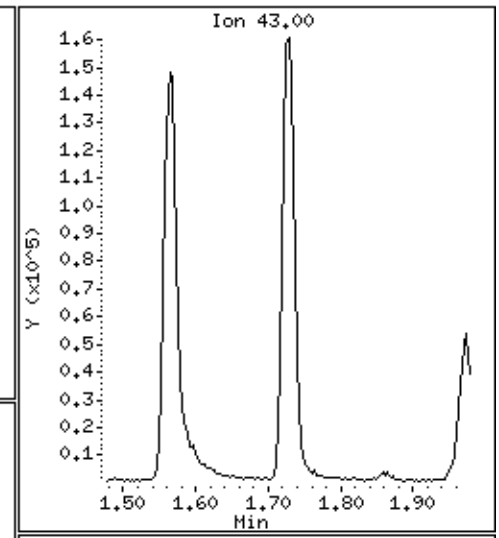
Concentration: 77.7 ppb

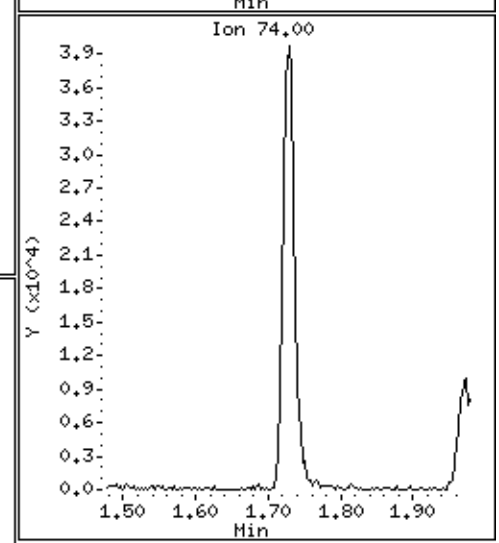












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

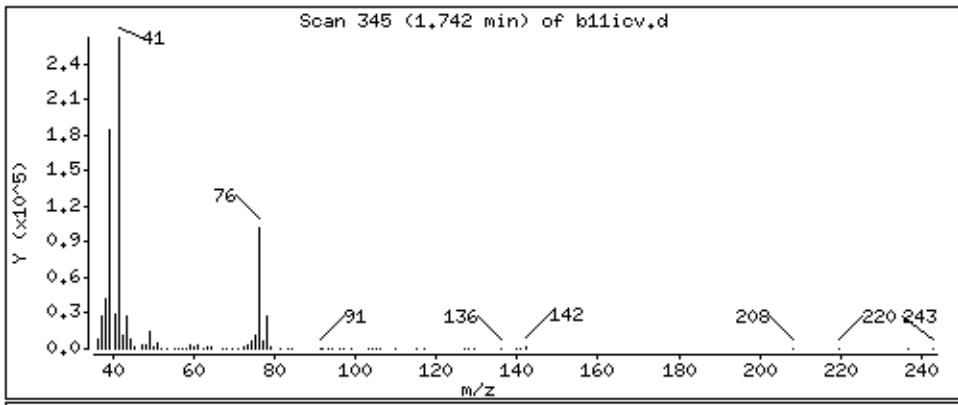
Operator: dae

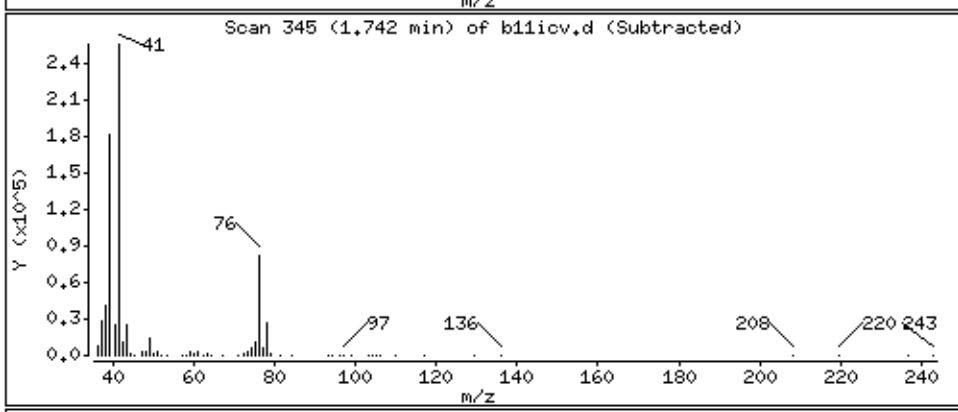
Column phase: DB-624

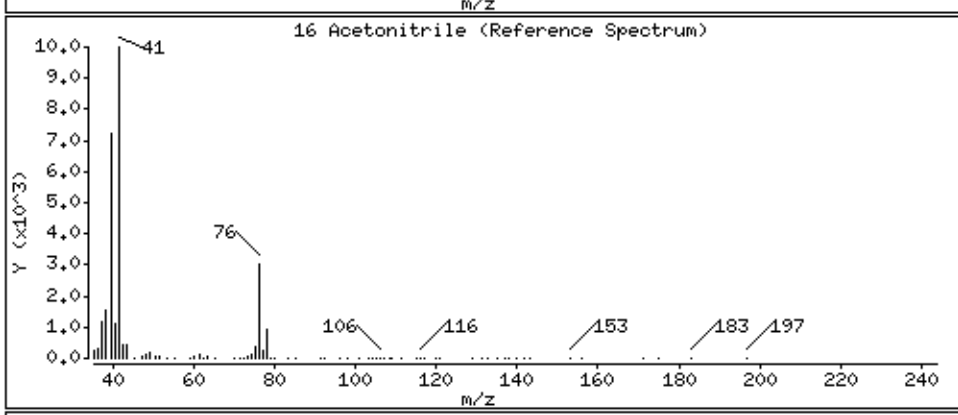
Column diameter: 0.18

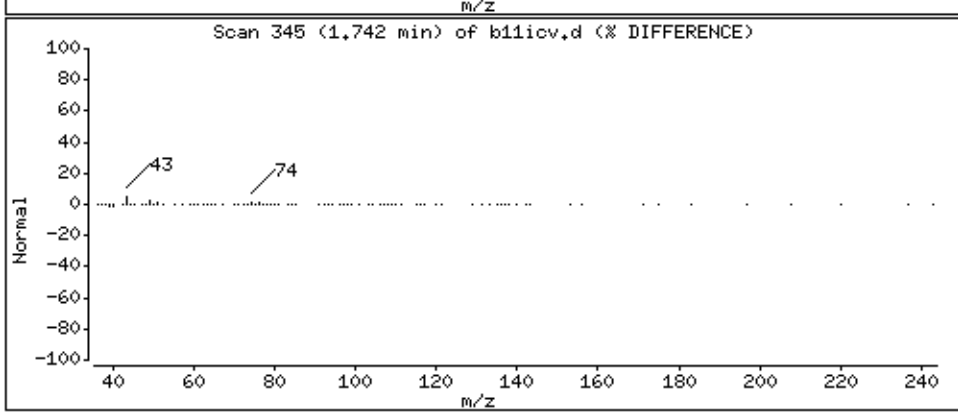
16 Acetonitrile

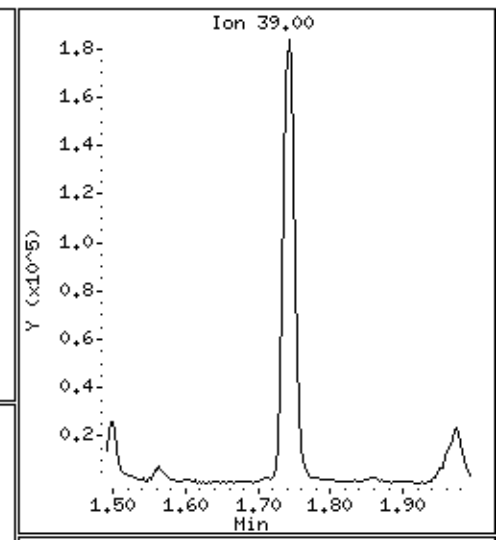
Concentration: 49.6 ppb

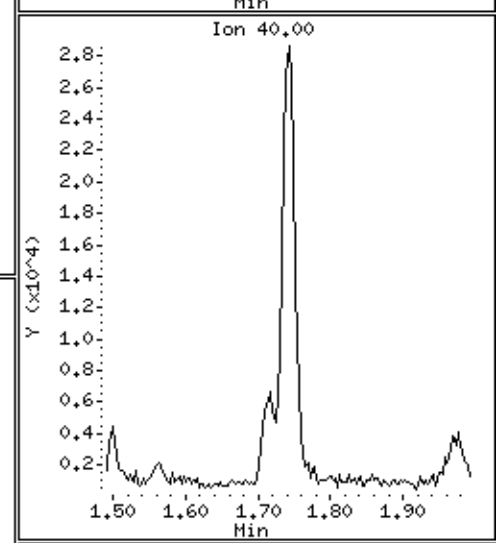


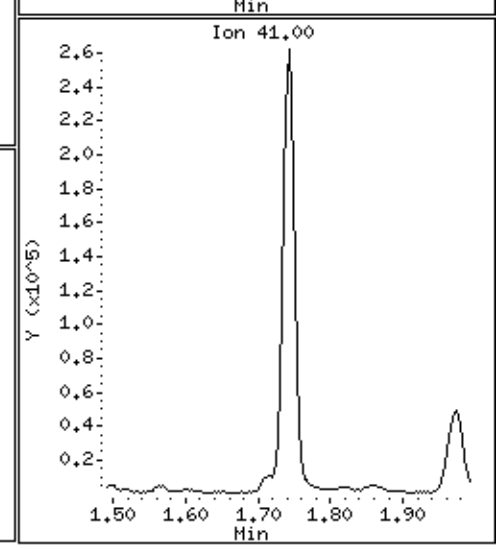












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

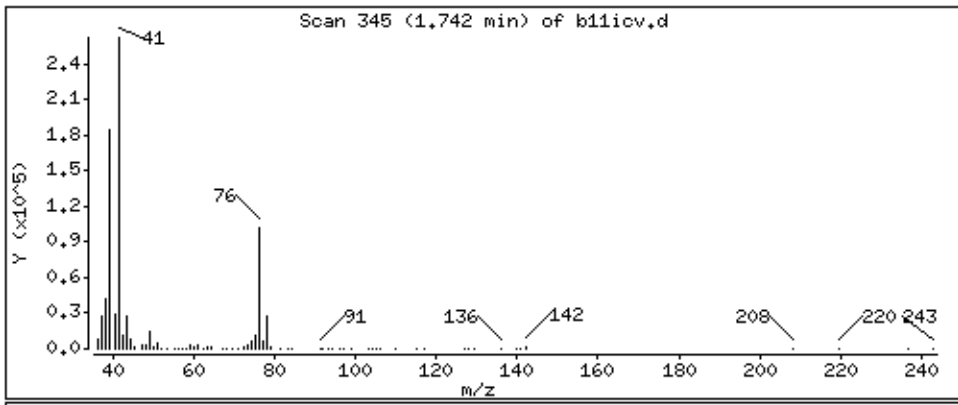
Operator: dae

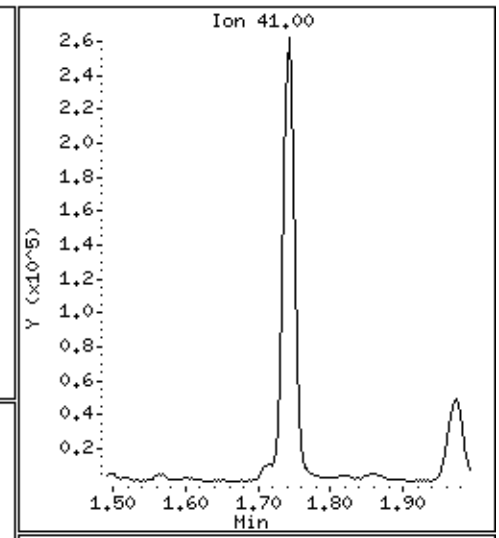
Column phase: DB-624

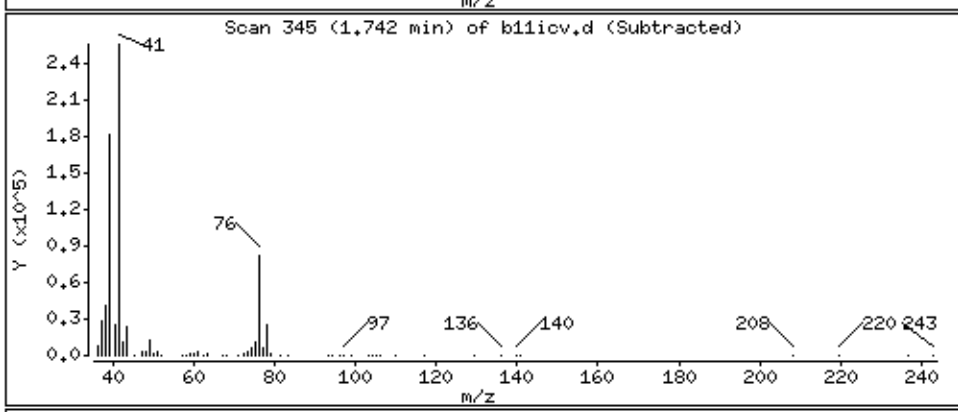
Column diameter: 0.18

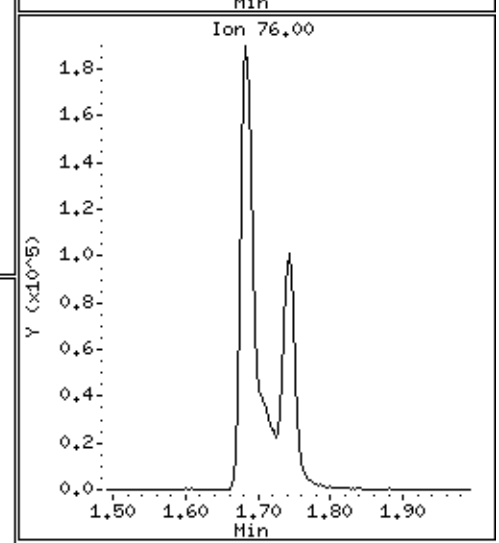
17 allyl chloride

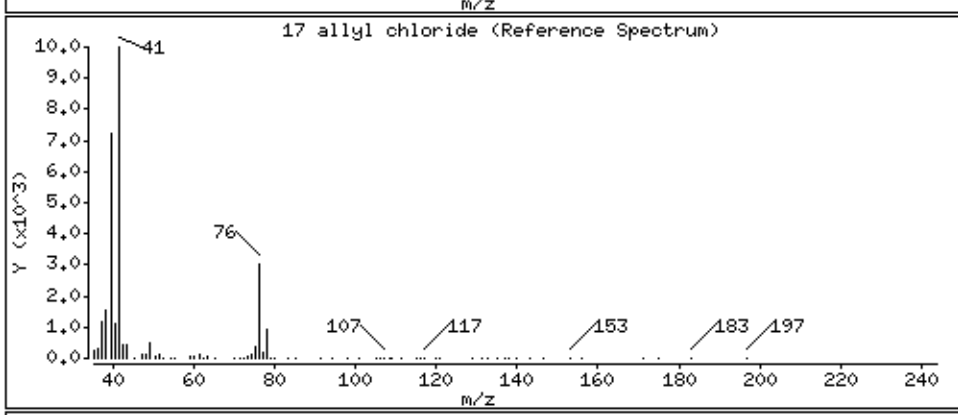
Concentration: 101 ppb

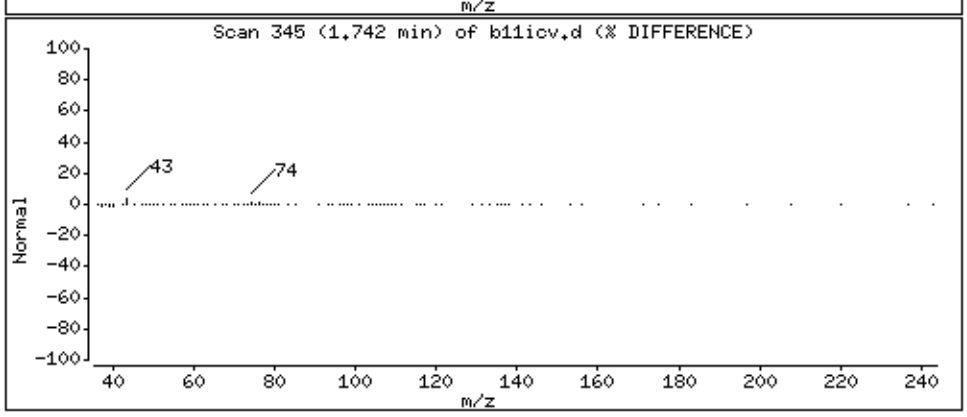












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

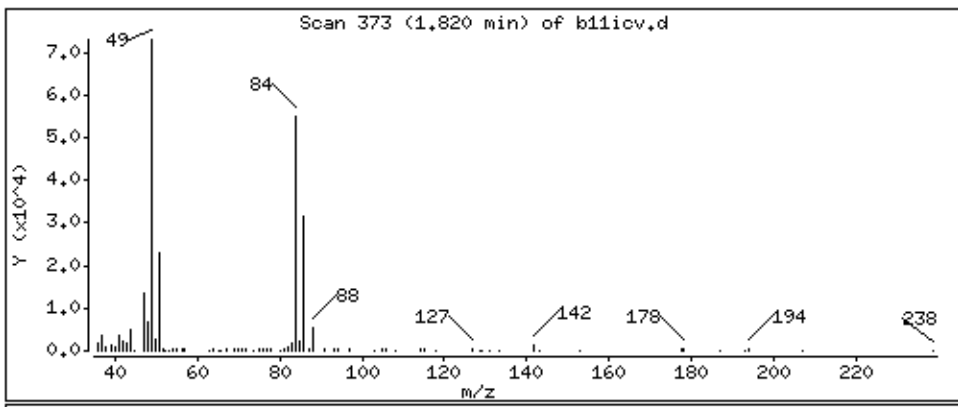
Operator: dae

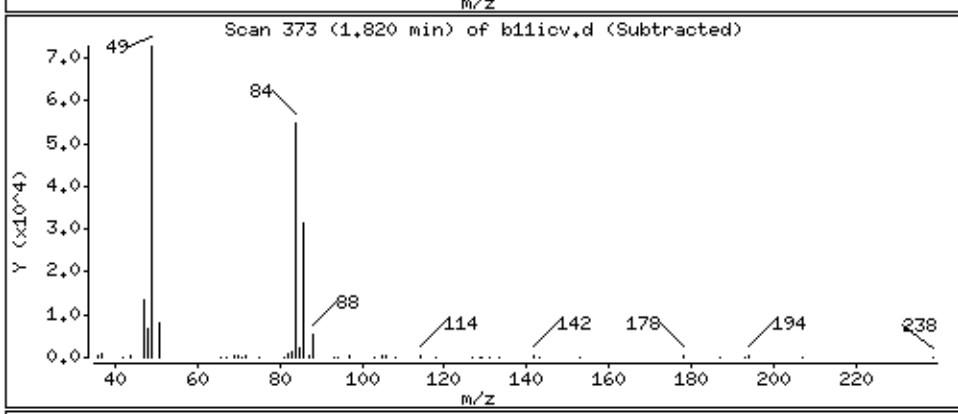
Column phase: DB-624

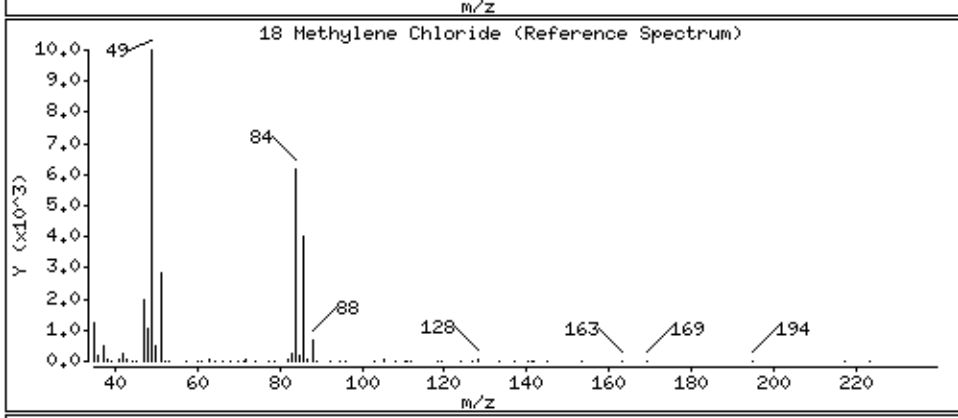
Column diameter: 0.18

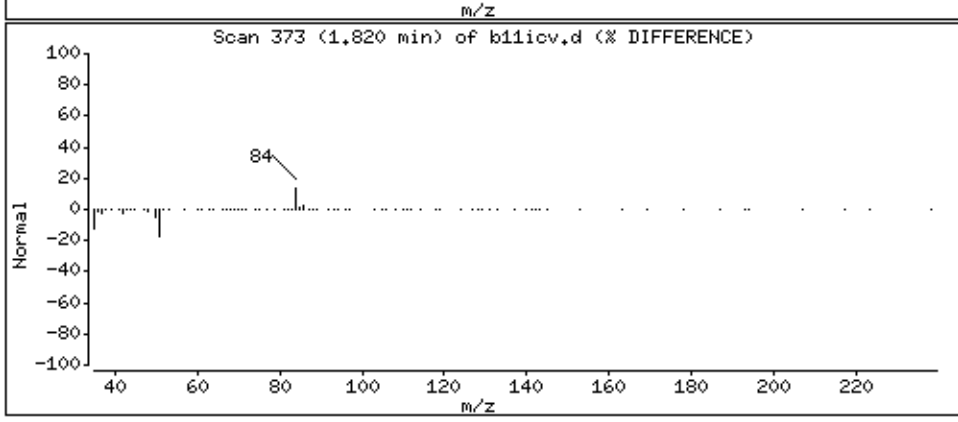
18 Methylene Chloride

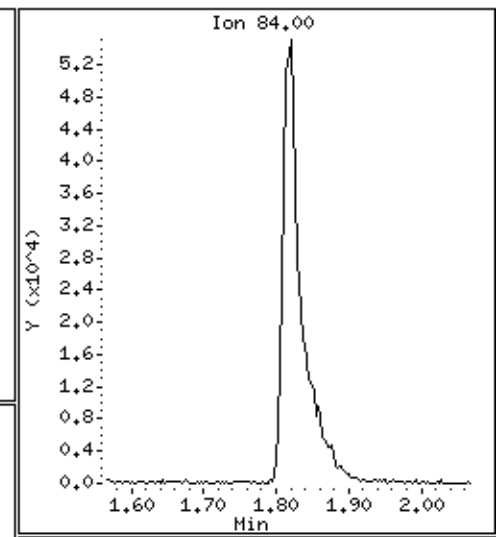
Concentration: 56.1 ppb

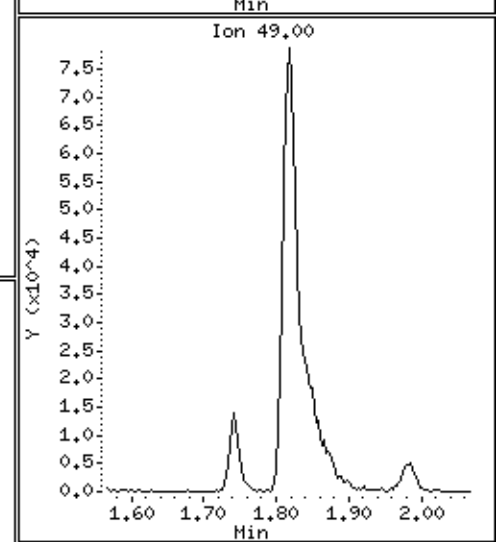


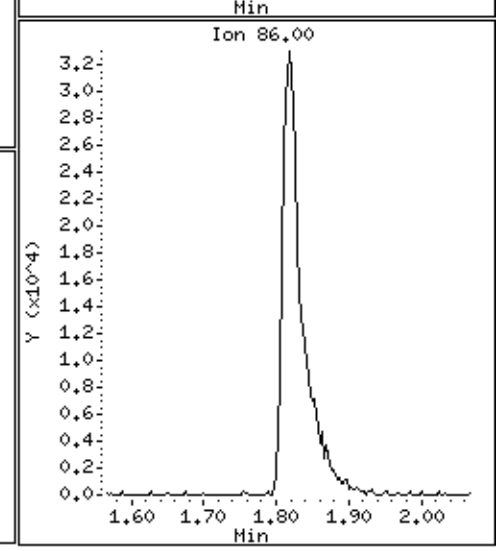












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

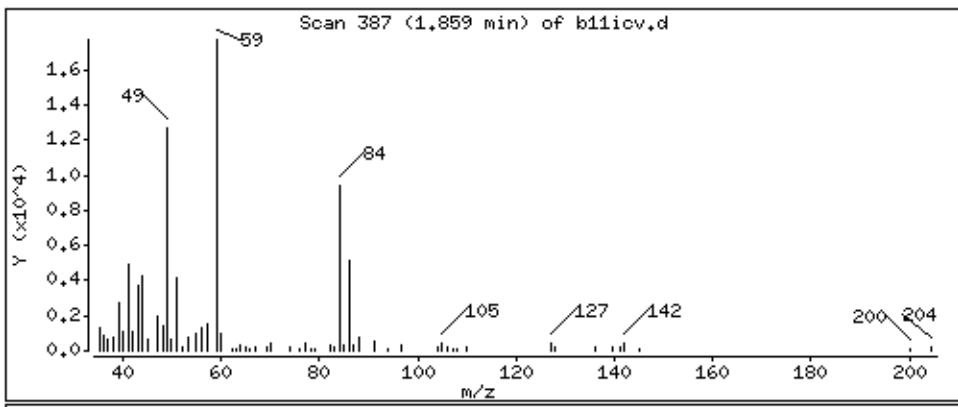
Operator: dae

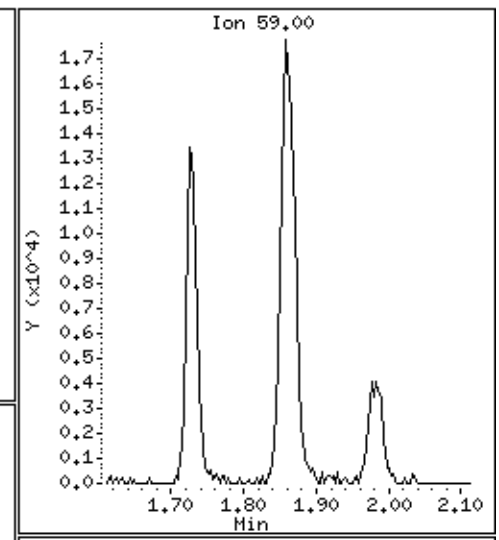
Column phase: DB-624

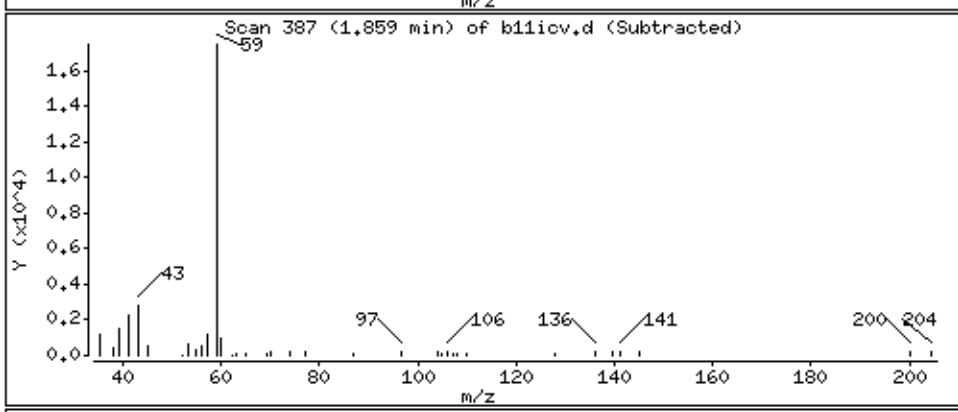
Column diameter: 0.18

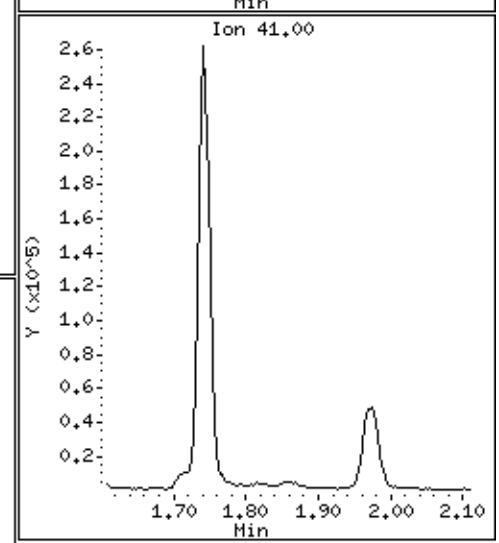
19 tert-Butyl Alcohol

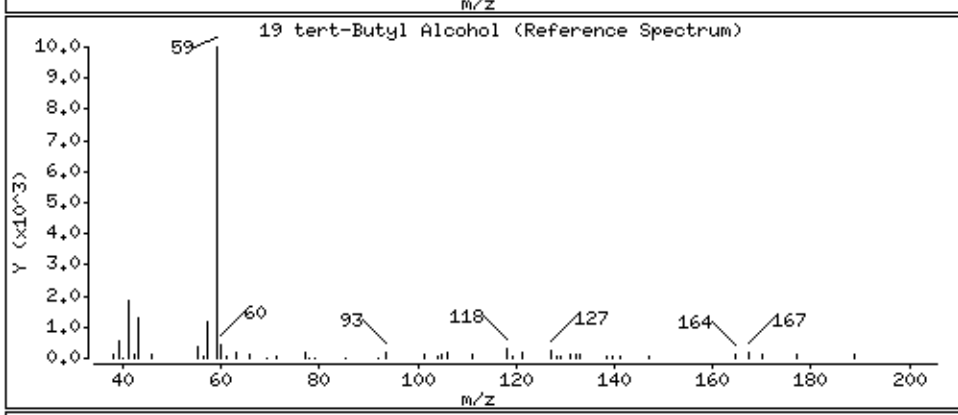
Concentration: 103 ppb

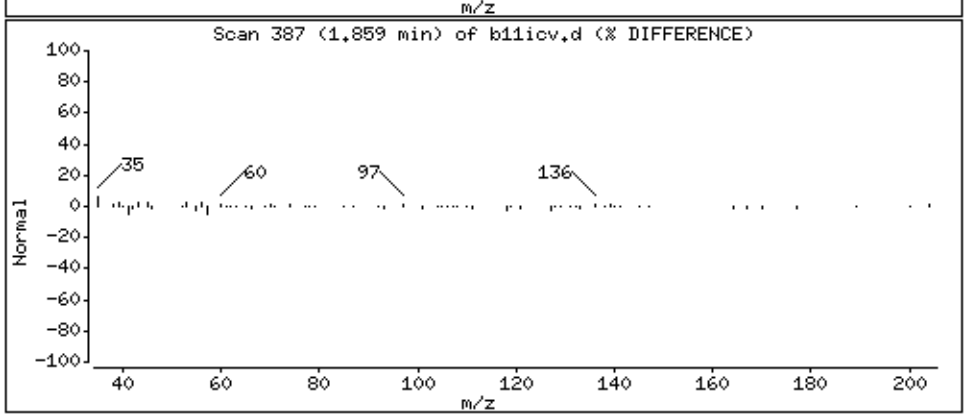












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

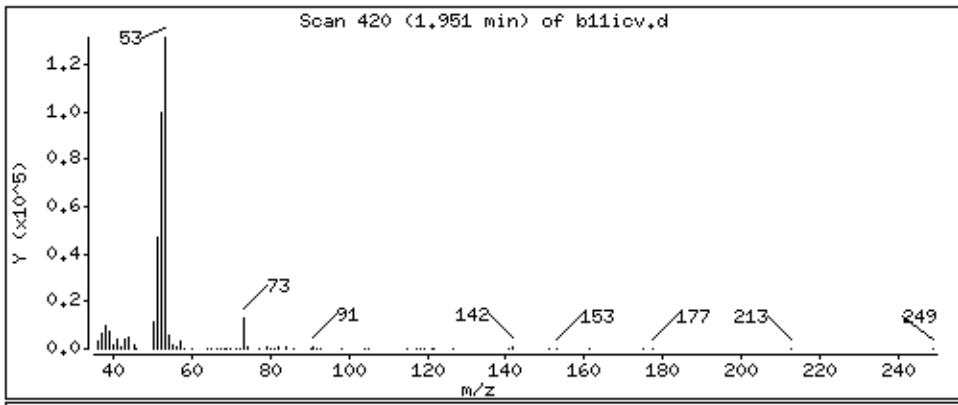
Operator: dae

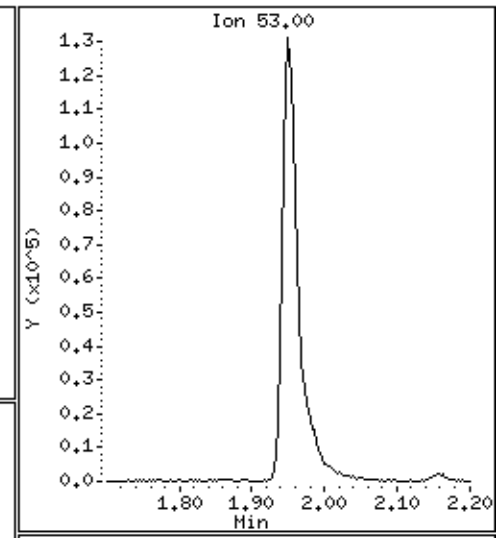
Column phase: DB-624

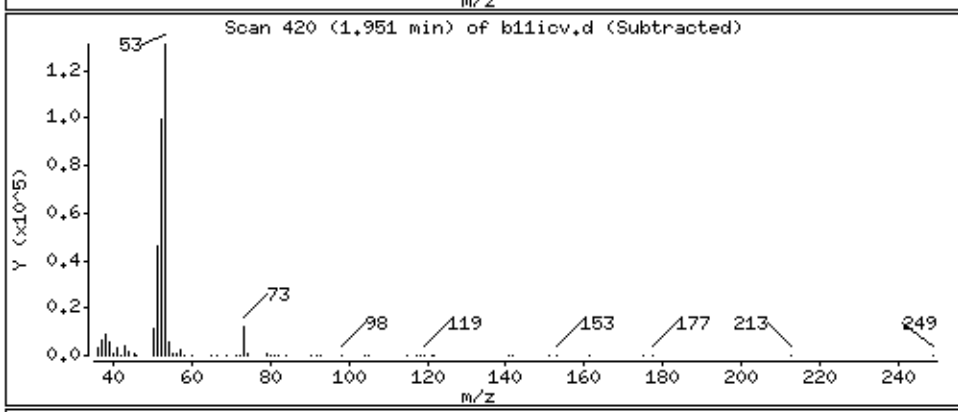
Column diameter: 0.18

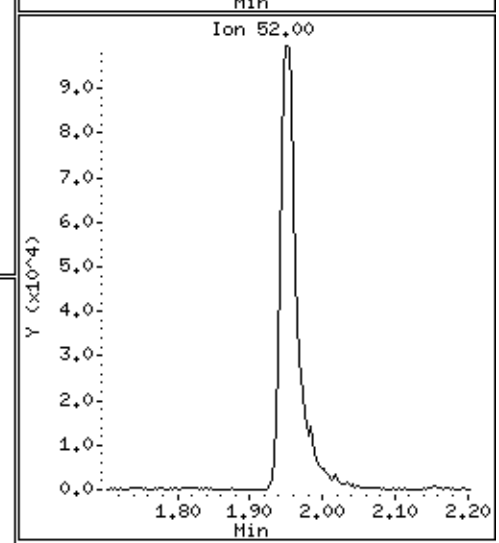
20 Acrylonitrile

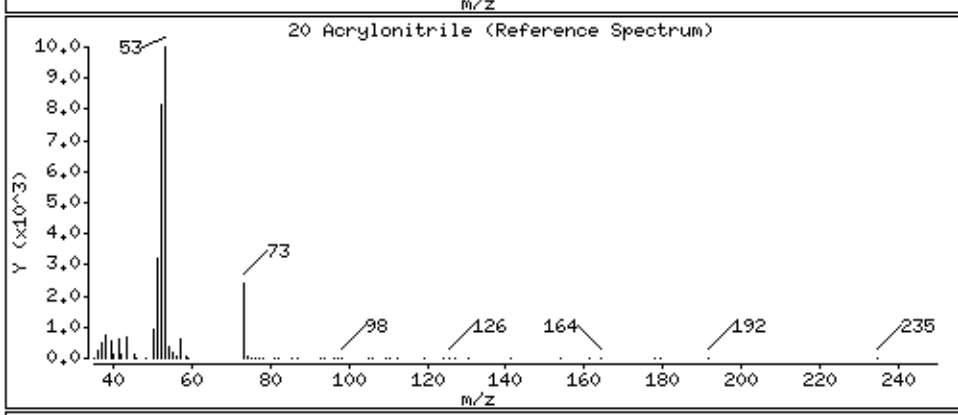
Concentration: 214 ppb

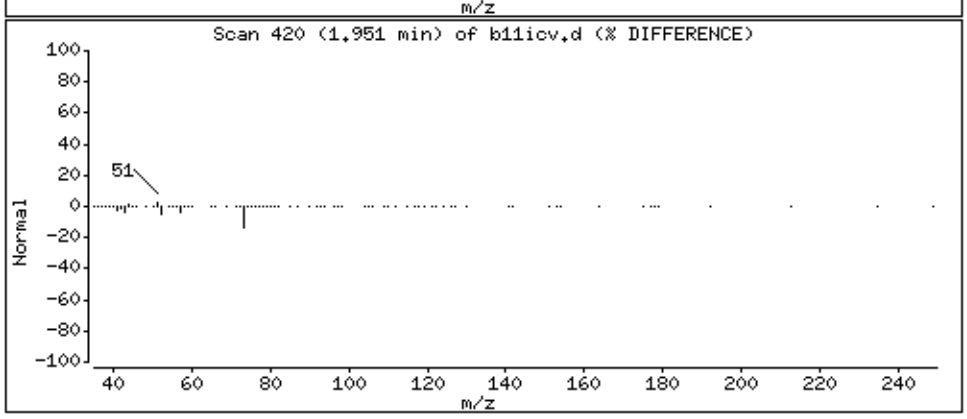












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

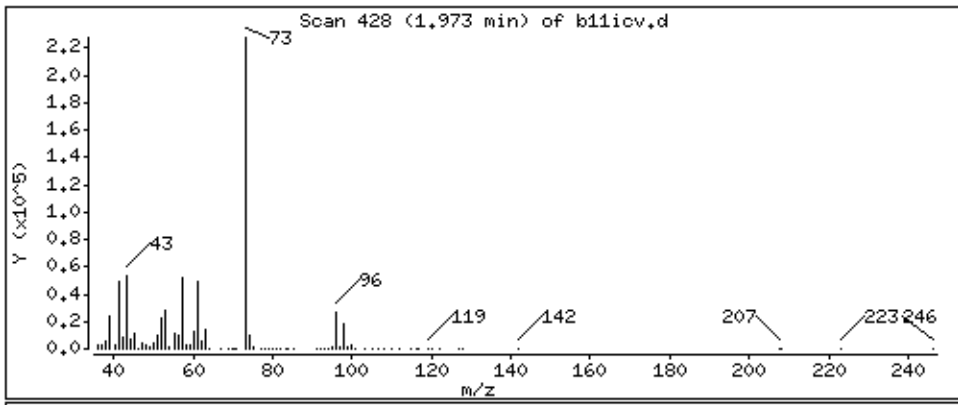
Operator: dae

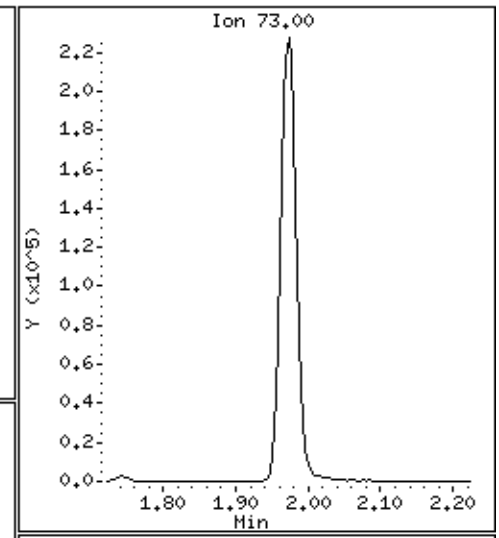
Column phase: DB-624

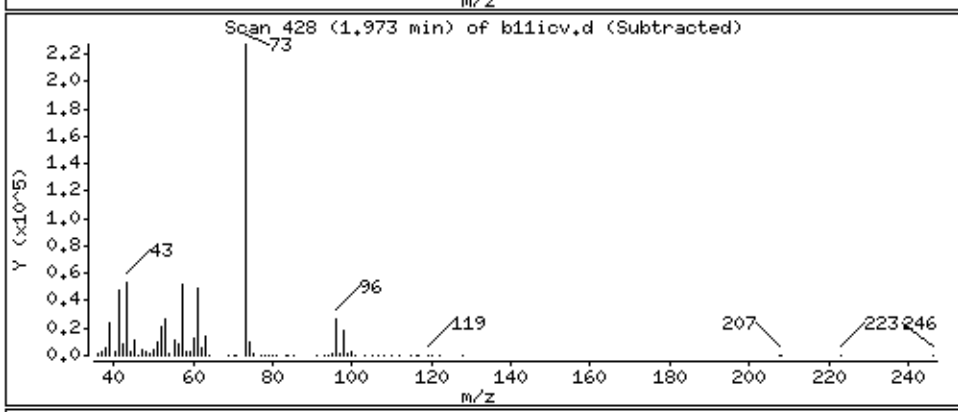
Column diameter: 0.18

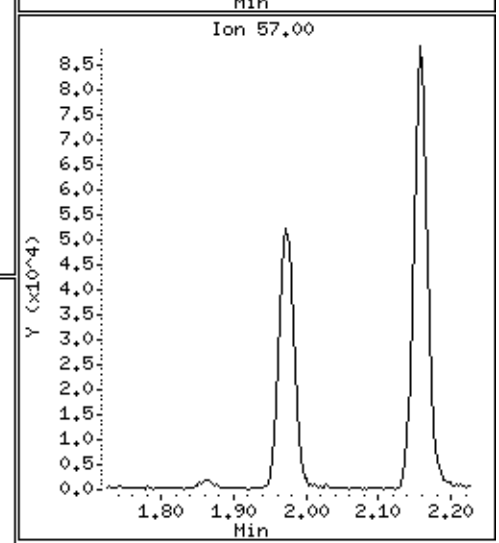
21 Methyl-tert-butyl ether

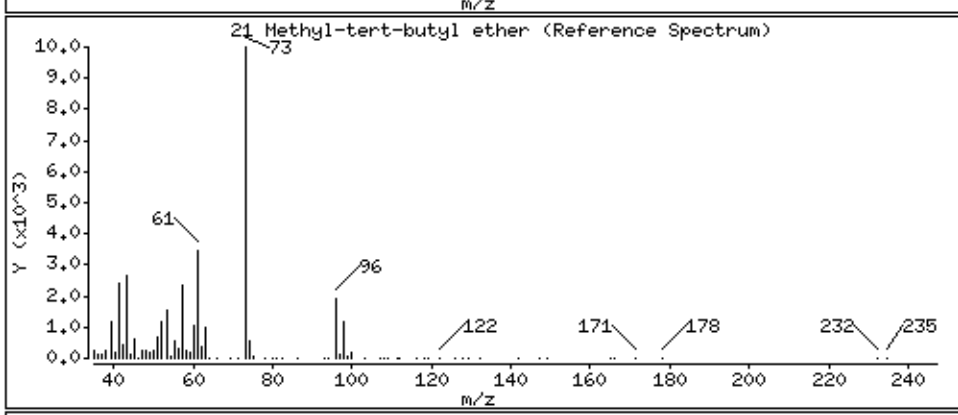
Concentration: 52.4 ppb

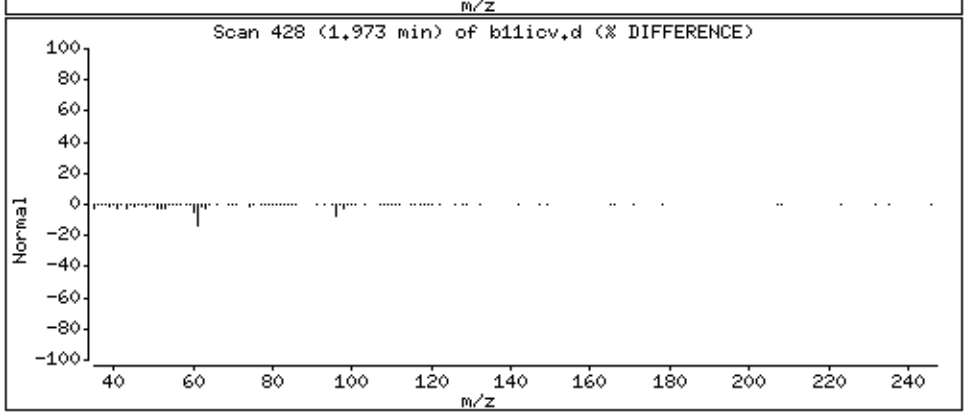












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

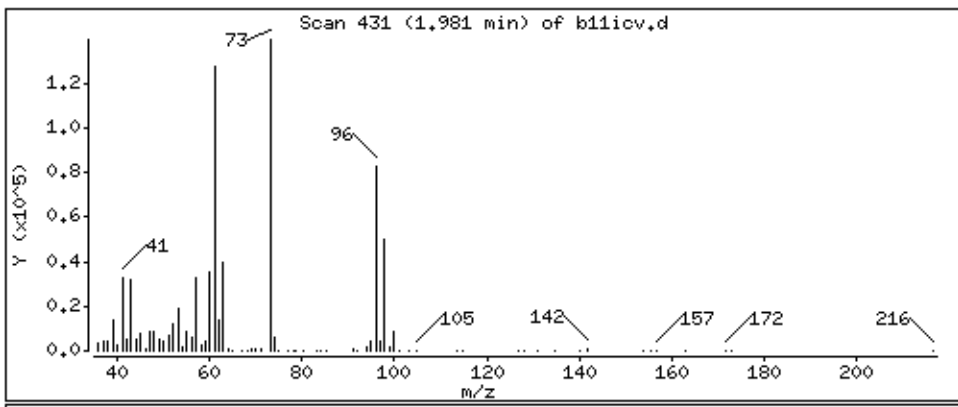
Operator: dae

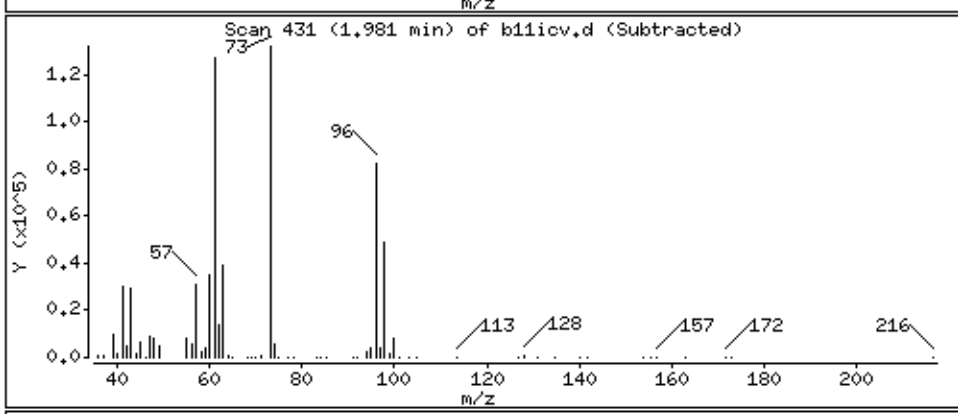
Column phase: DB-624

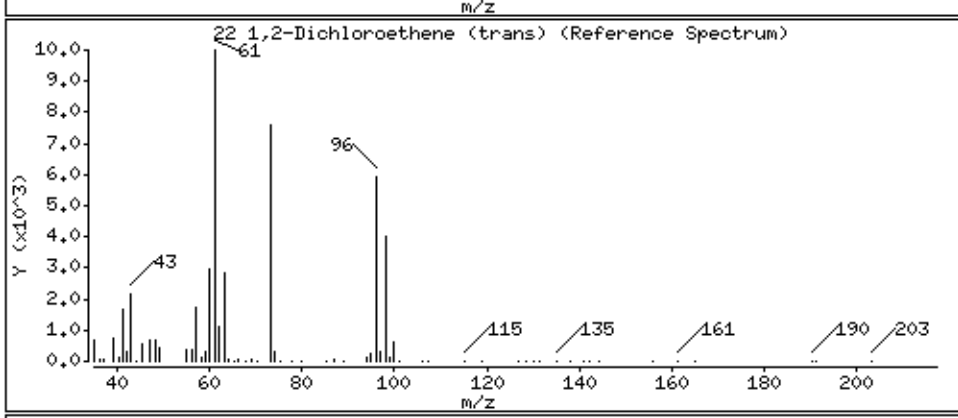
Column diameter: 0.18

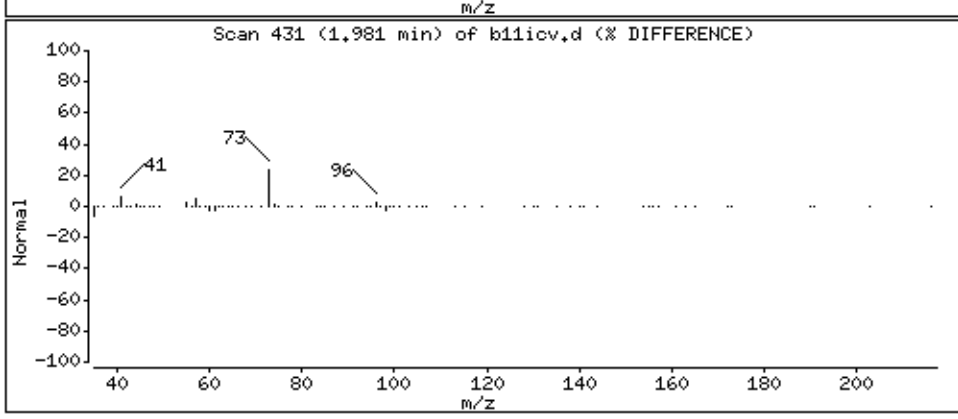
22 1,2-Dichloroethene (trans)

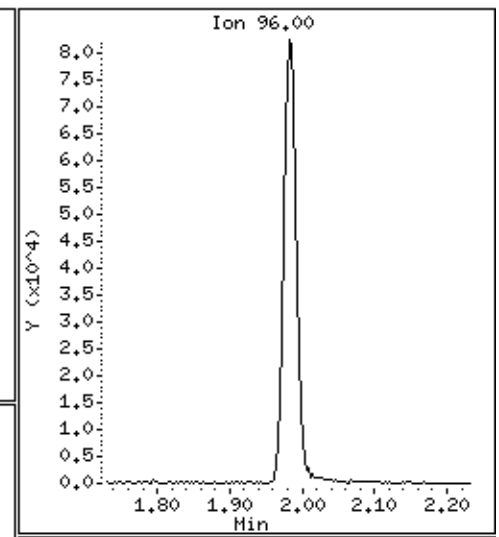
Concentration: 53.1 ppb

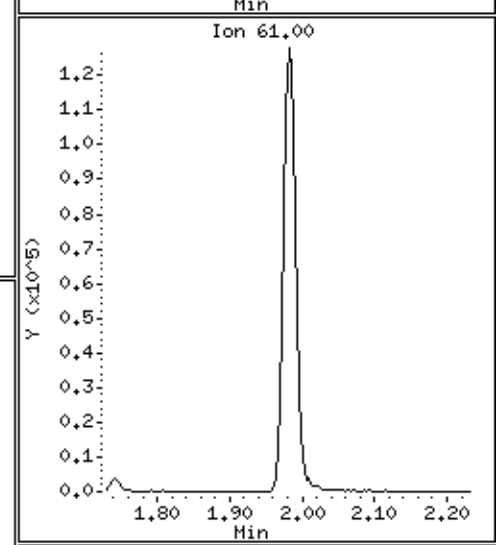


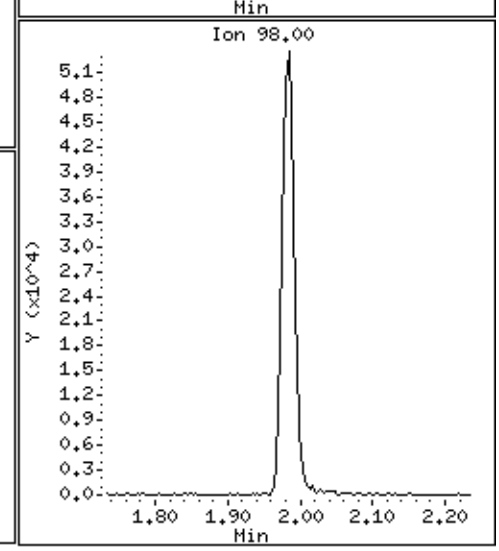












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

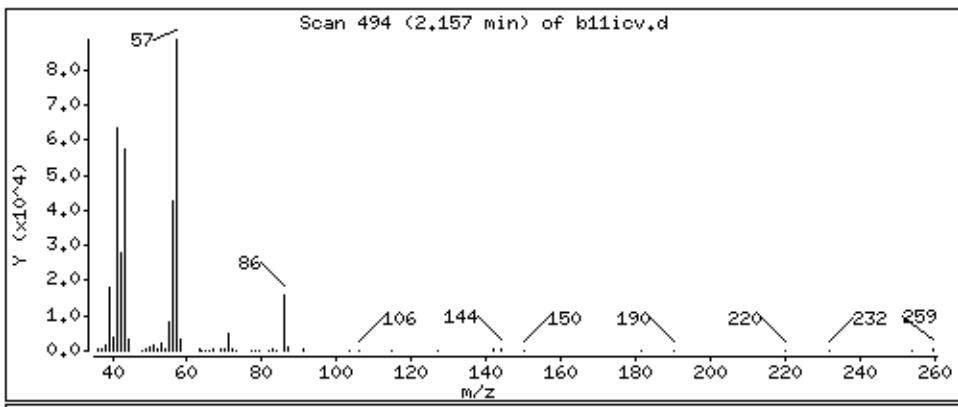
Operator: dae

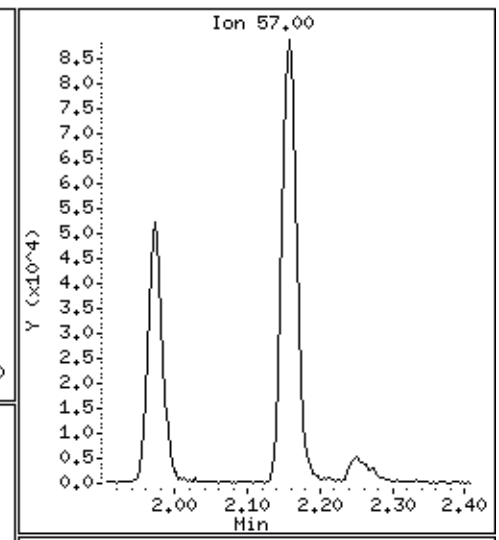
Column phase: DB-624

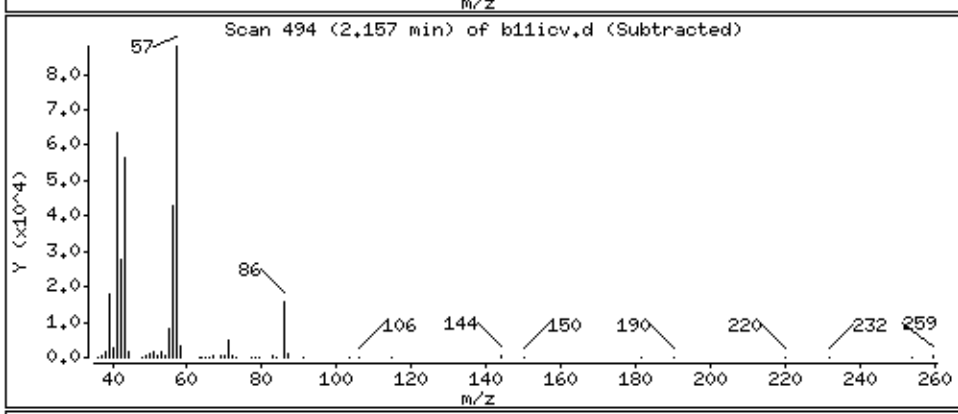
Column diameter: 0.18

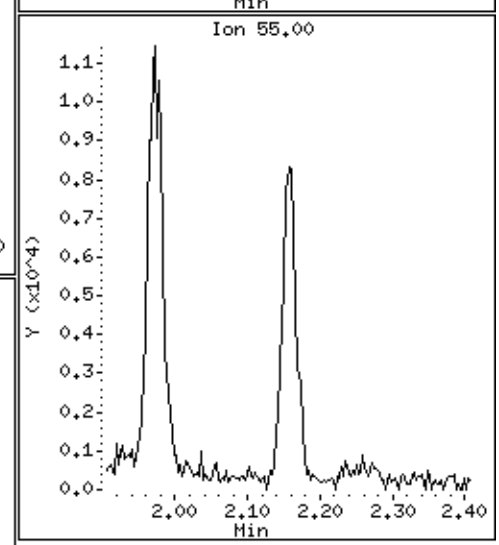
23 n-Hexane

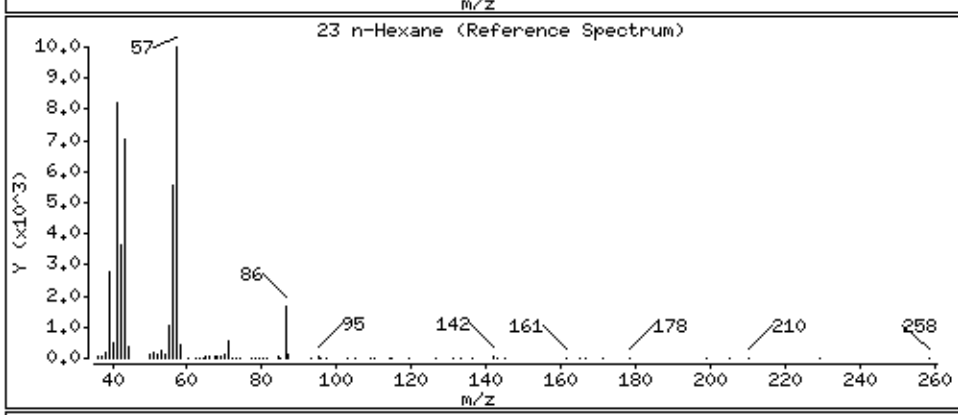
Concentration: 45.9 ppb

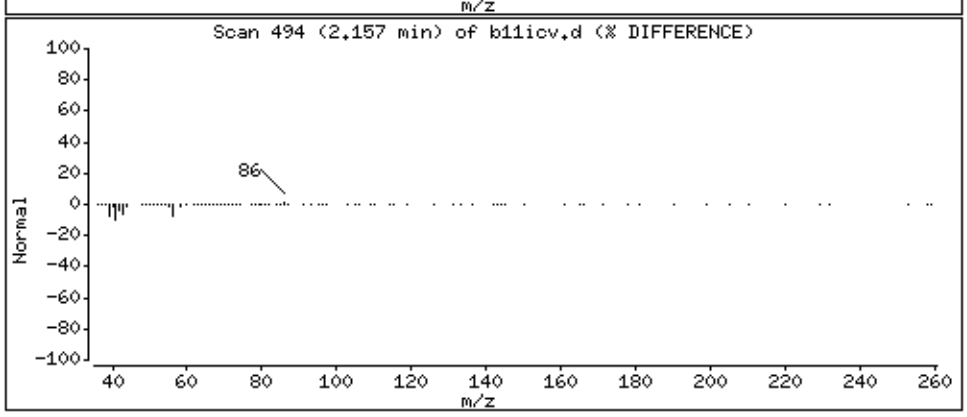












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

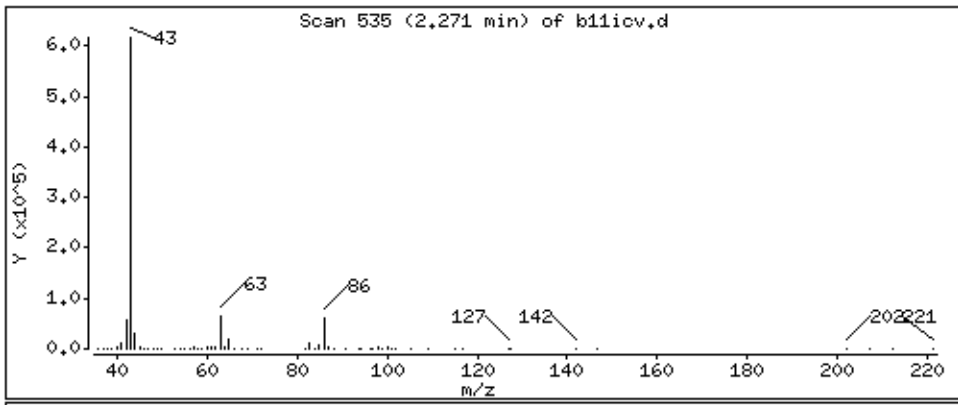
Operator: dae

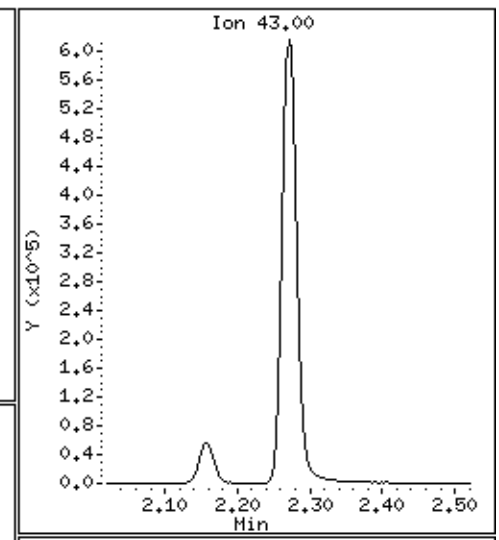
Column phase: DB-624

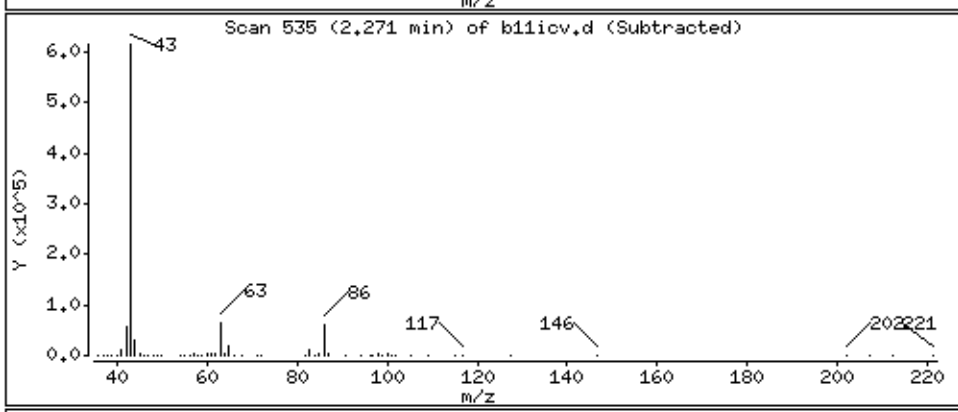
Column diameter: 0.18

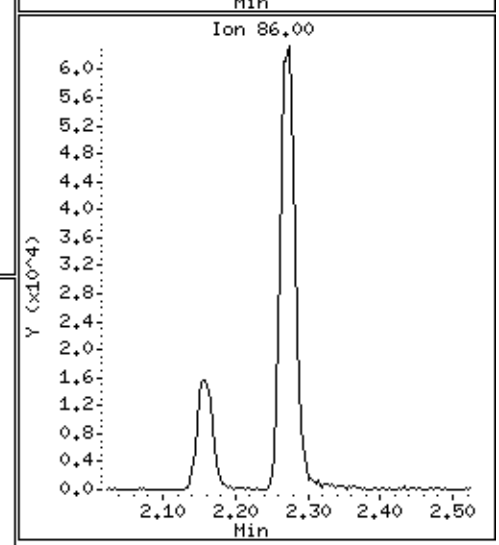
24 Vinyl Acetate

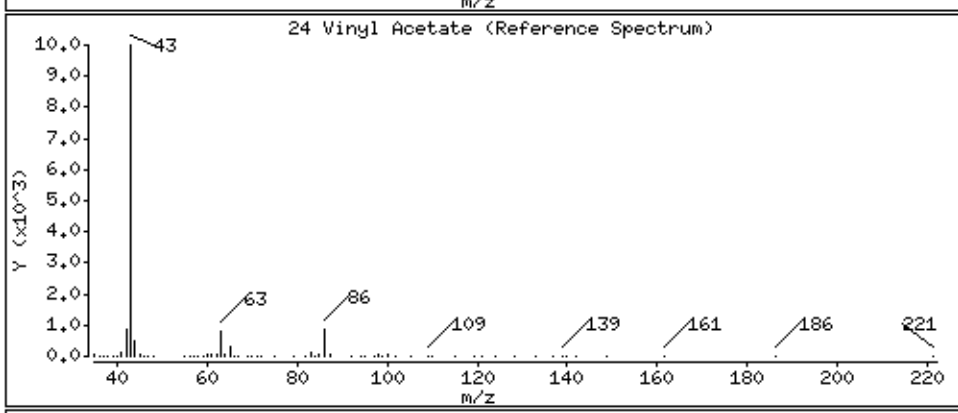
Concentration: 209 ppb

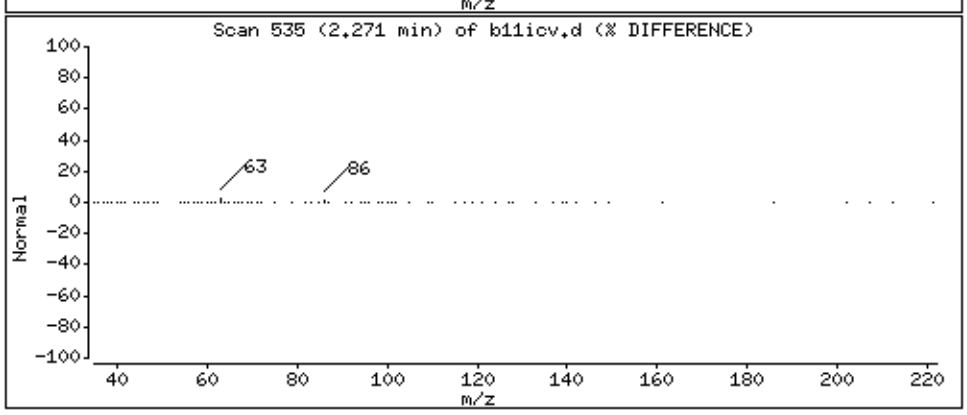












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

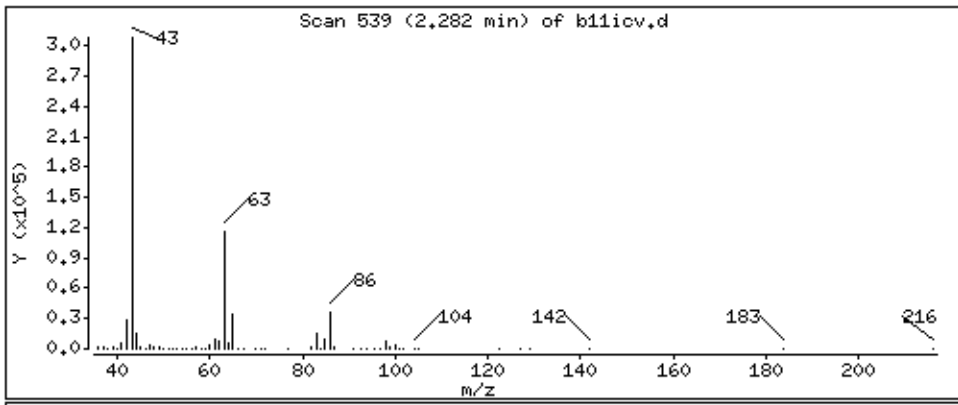
Operator: dae

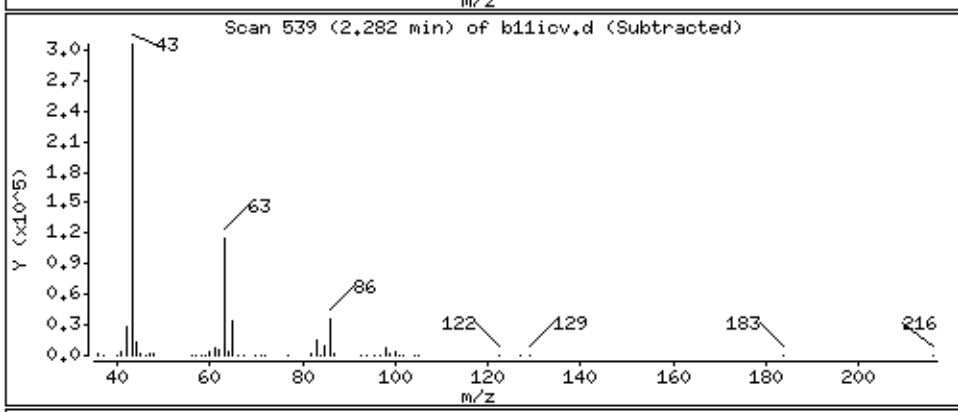
Column phase: DB-624

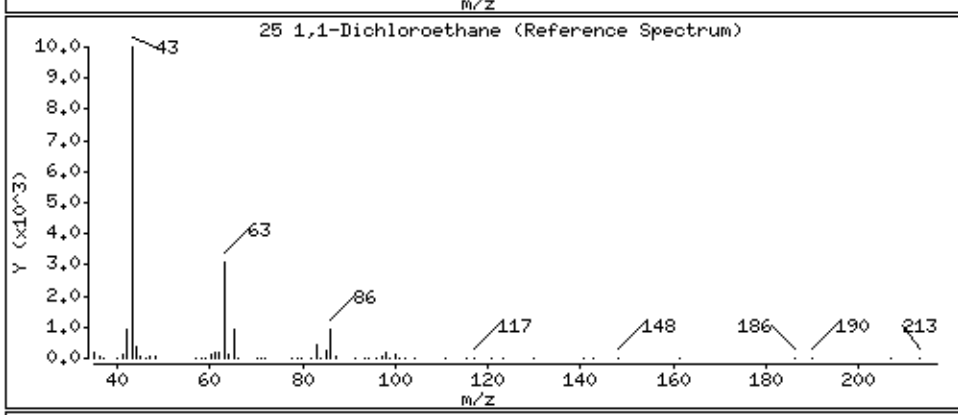
Column diameter: 0.18

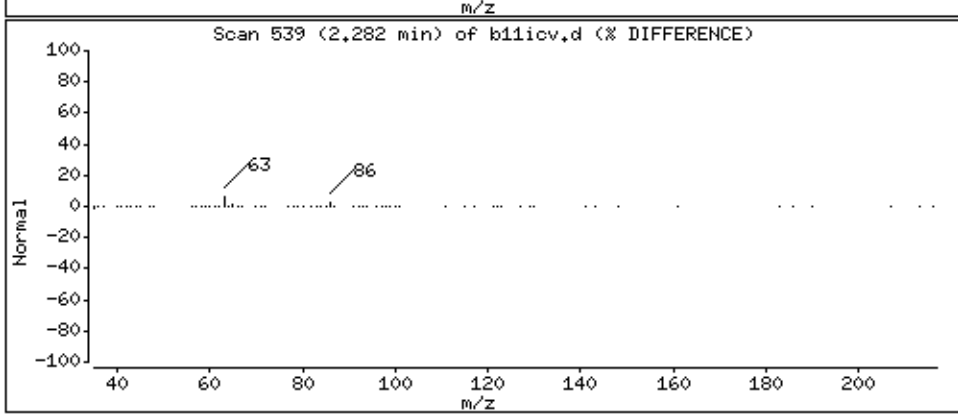
25 1,1-Dichloroethane

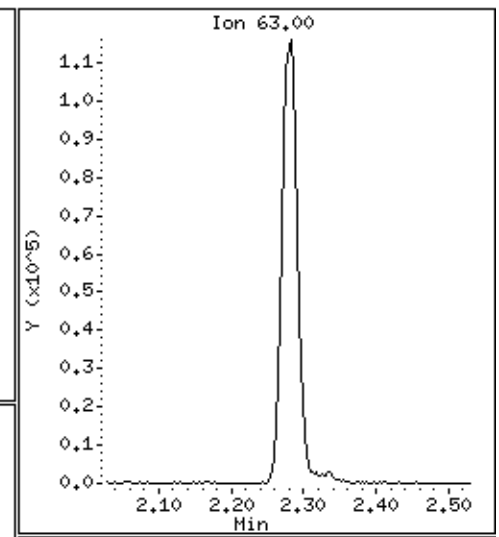
Concentration: 48.4 ppb

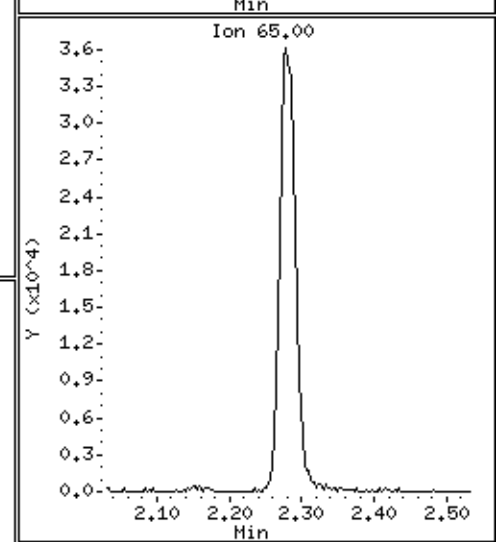


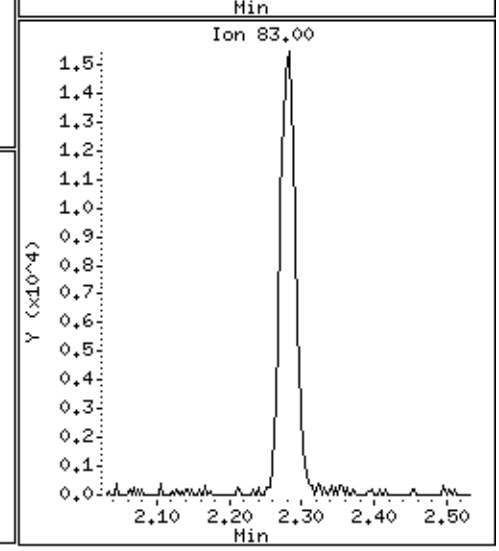












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

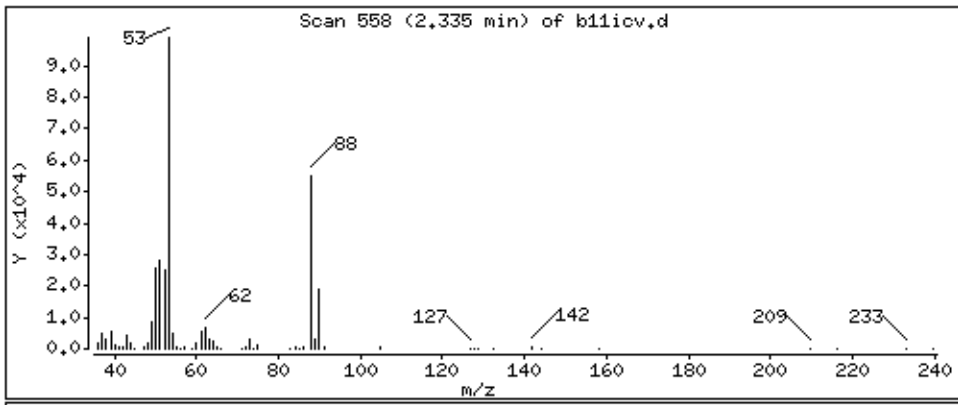
Operator: dae

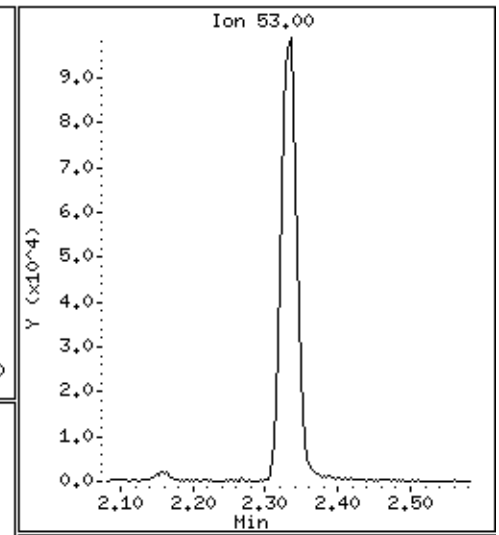
Column phase: DB-624

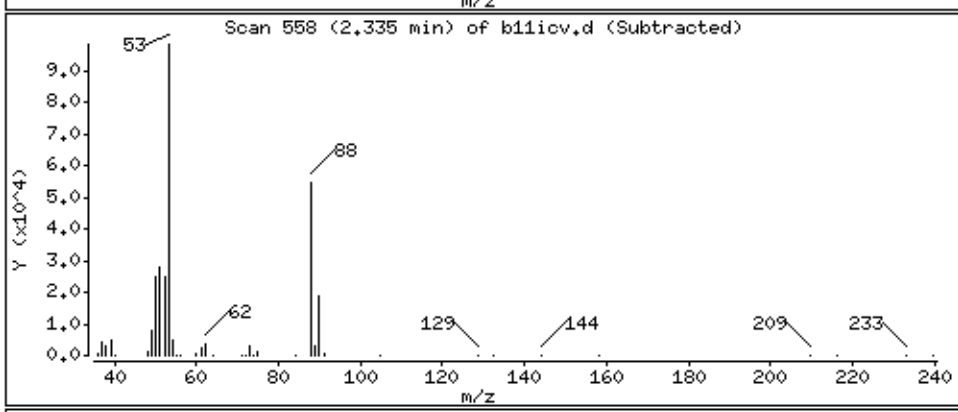
Column diameter: 0.18

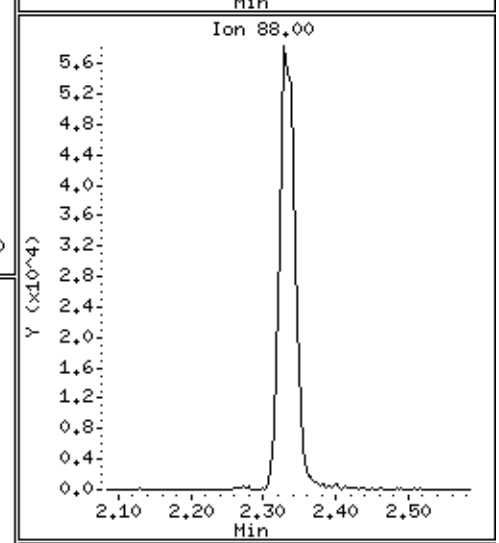
26 Chloroprene

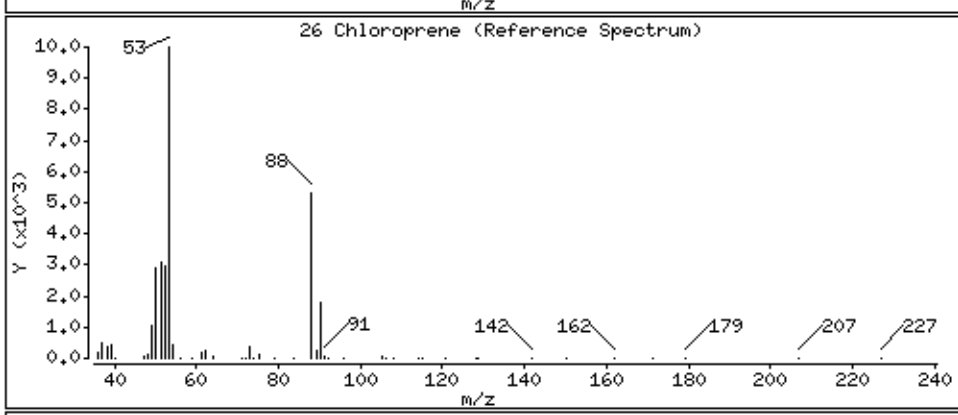
Concentration: 50.7 ppb

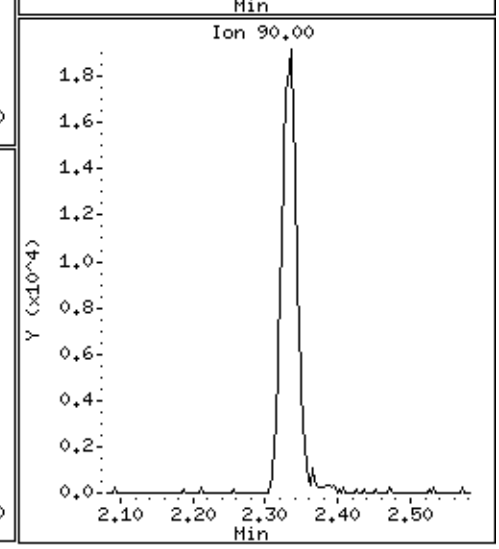


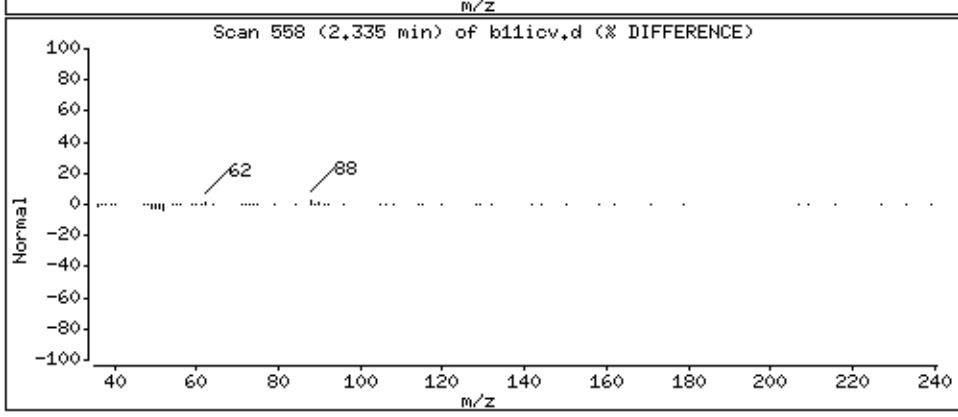












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

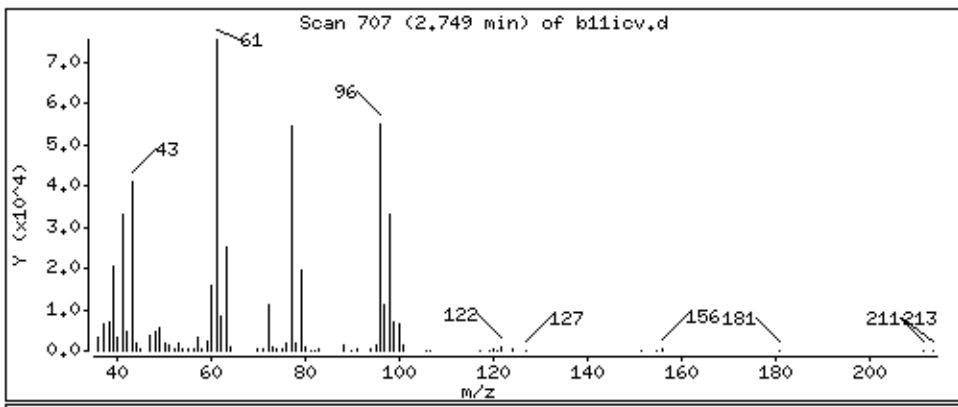
Operator: dae

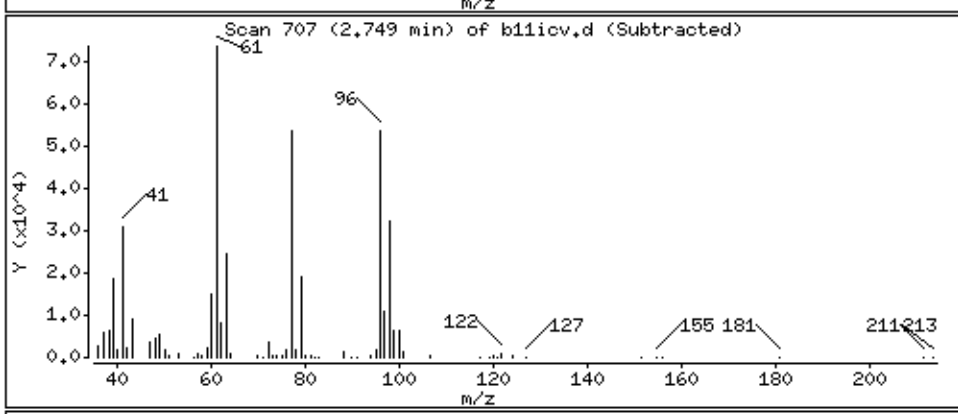
Column phase: DB-624

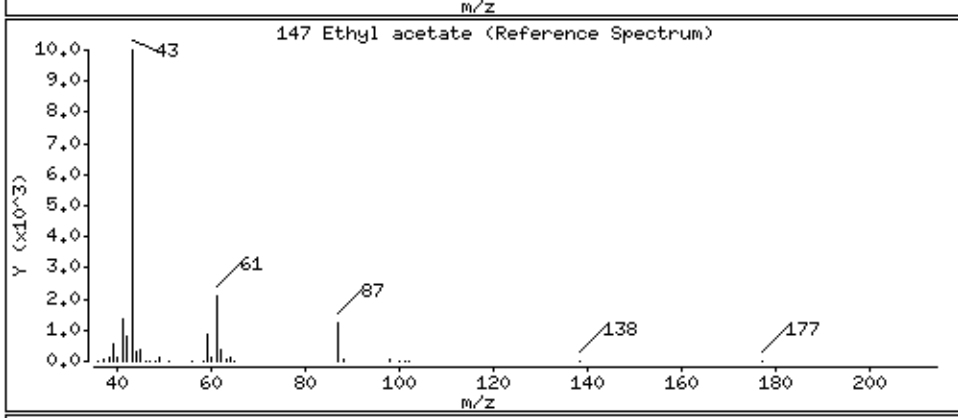
Column diameter: 0.18

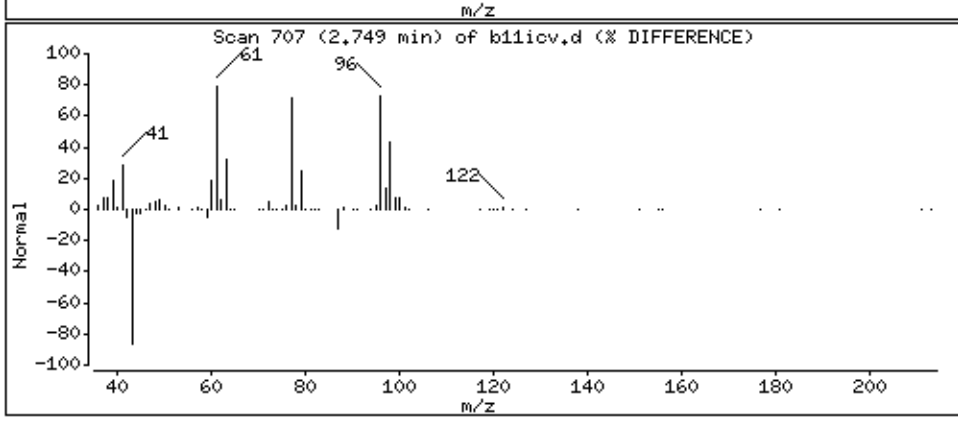
147 Ethyl acetate

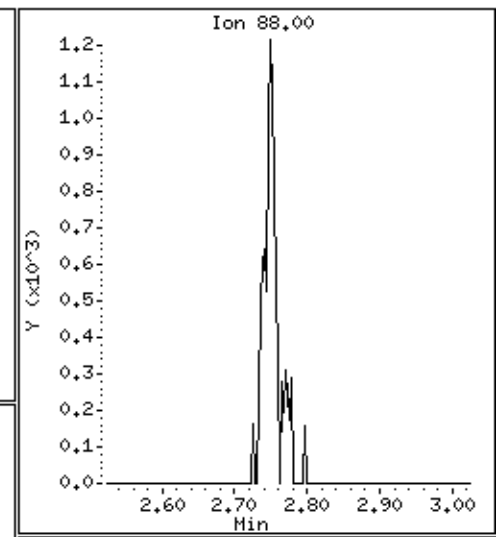
Concentration: 12.6 ppb

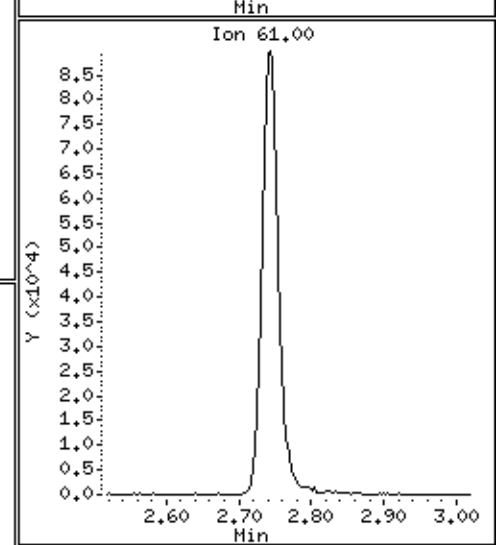


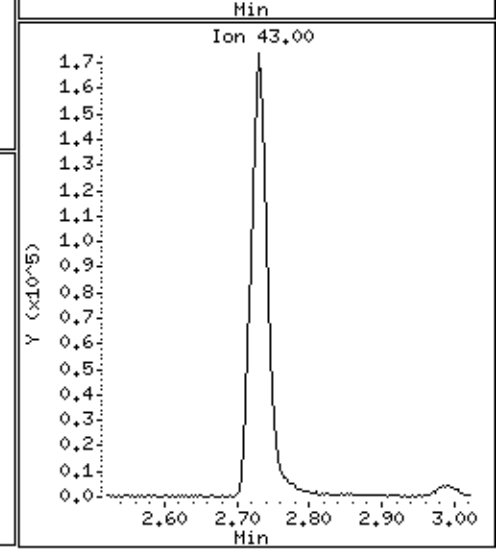












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

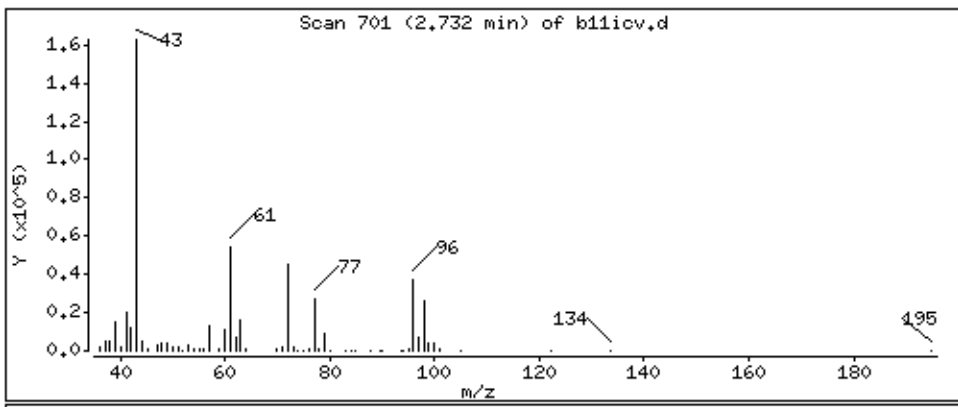
Operator: dae

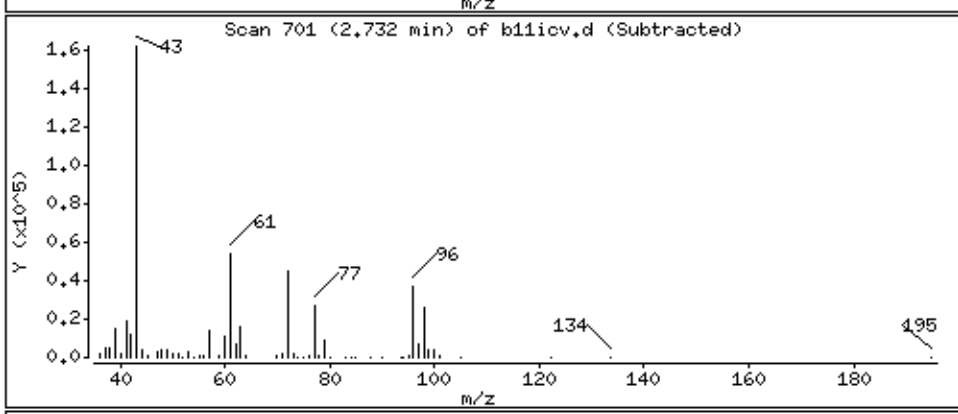
Column phase: DB-624

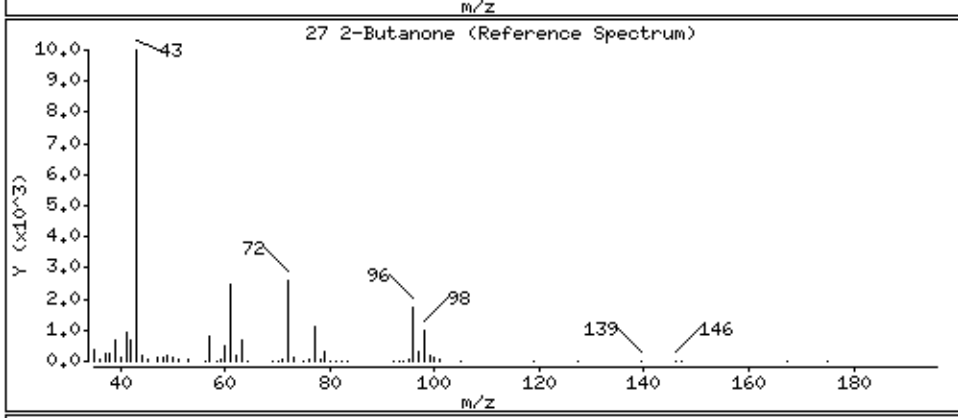
Column diameter: 0.18

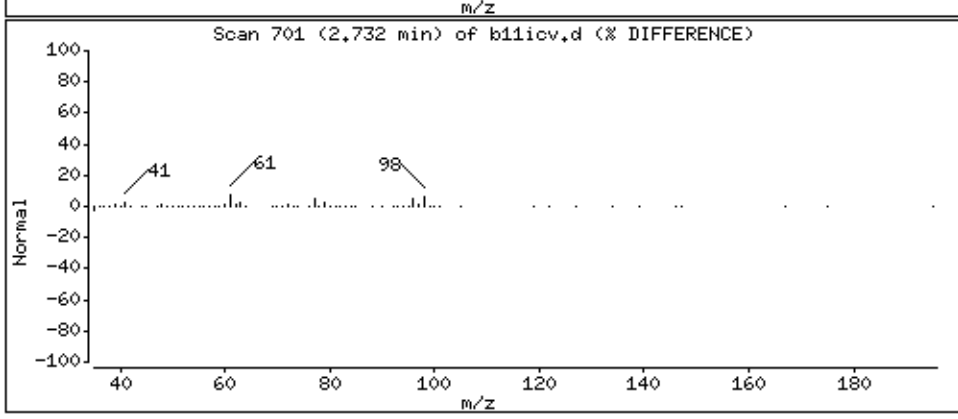
27 2-Butanone

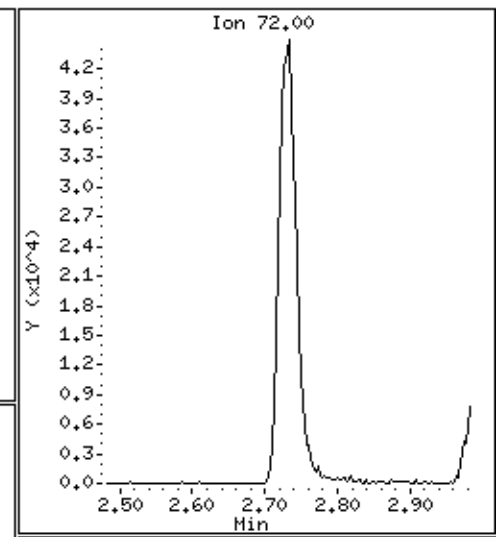
Concentration: 265 ppb

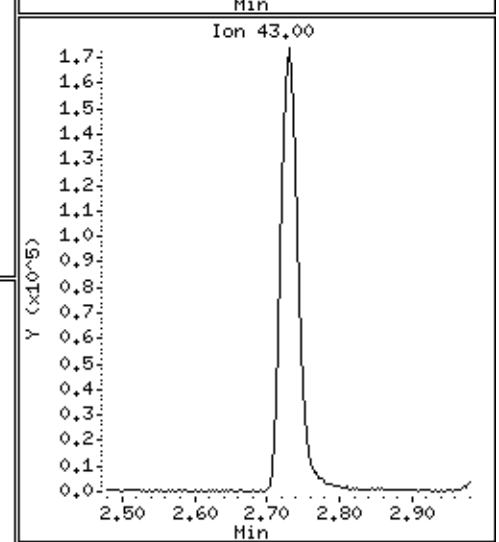


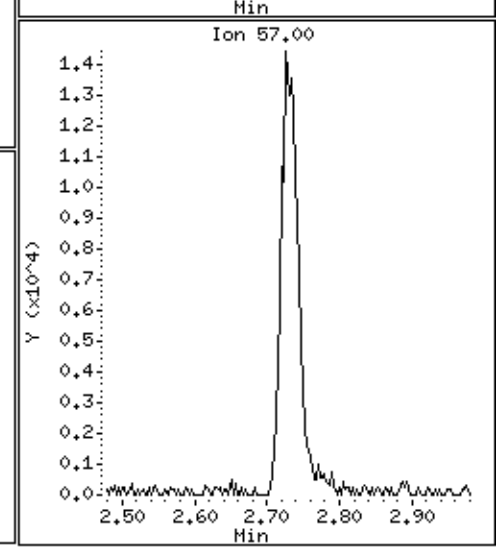












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

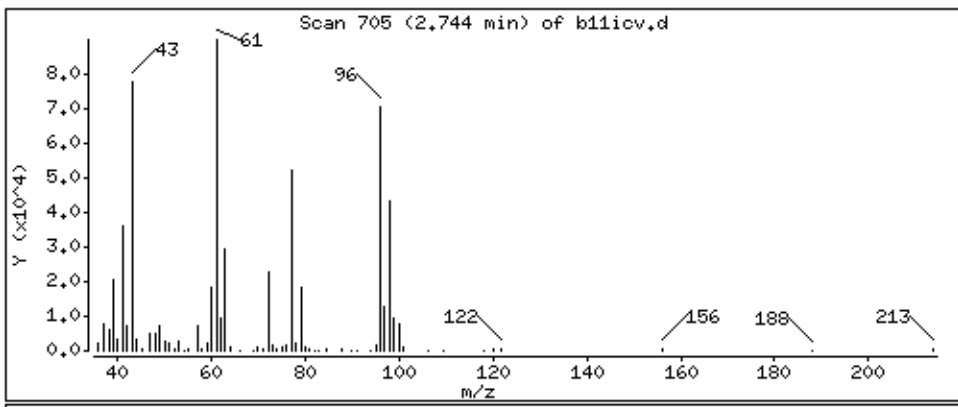
Operator: dae

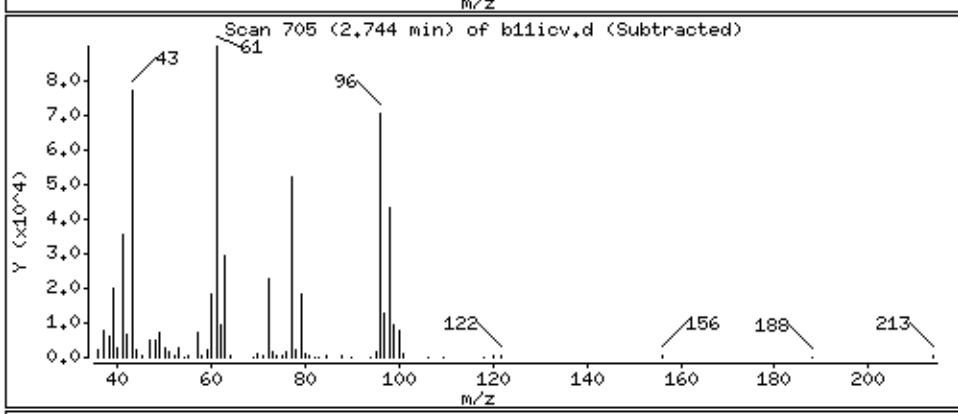
Column phase: DB-624

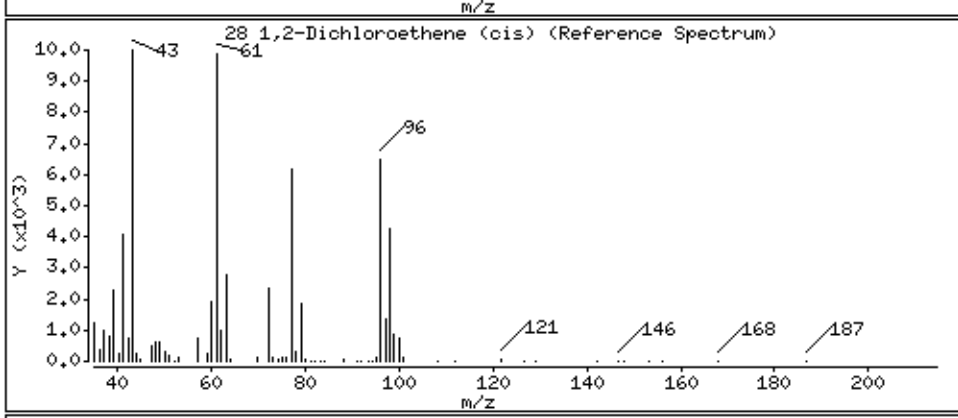
Column diameter: 0.18

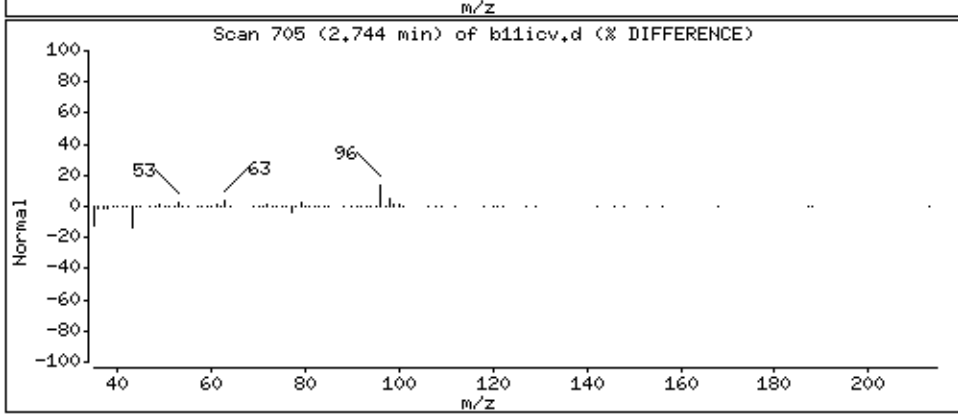
28 1,2-Dichloroethene (cis)

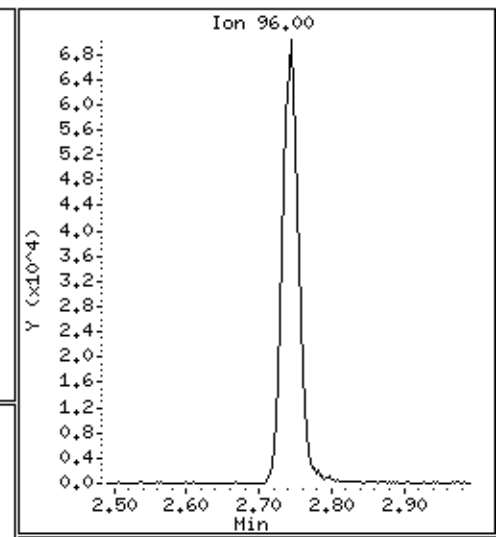
Concentration: 55.2 ppb

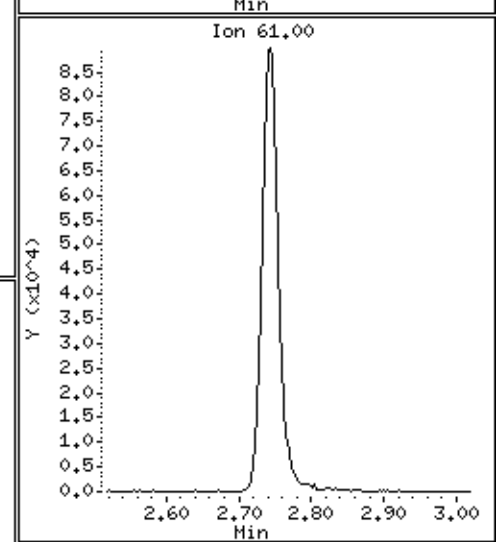


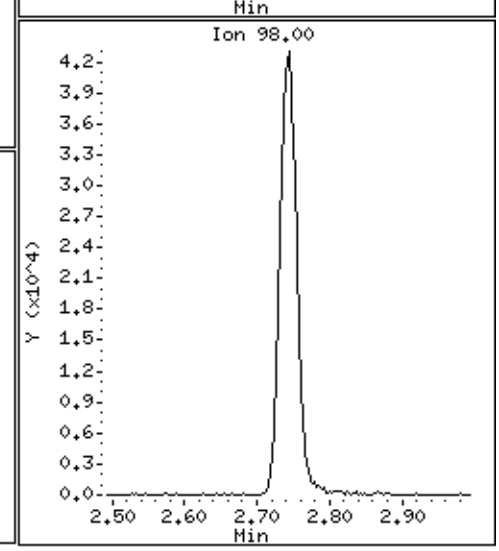












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

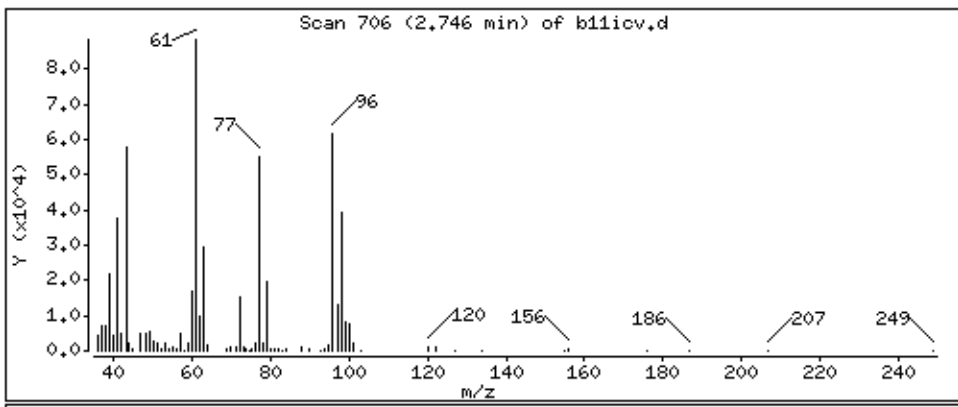
Operator: dae

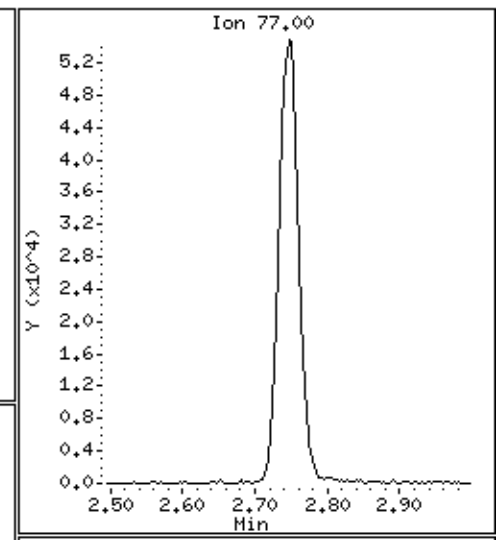
Column phase: DB-624

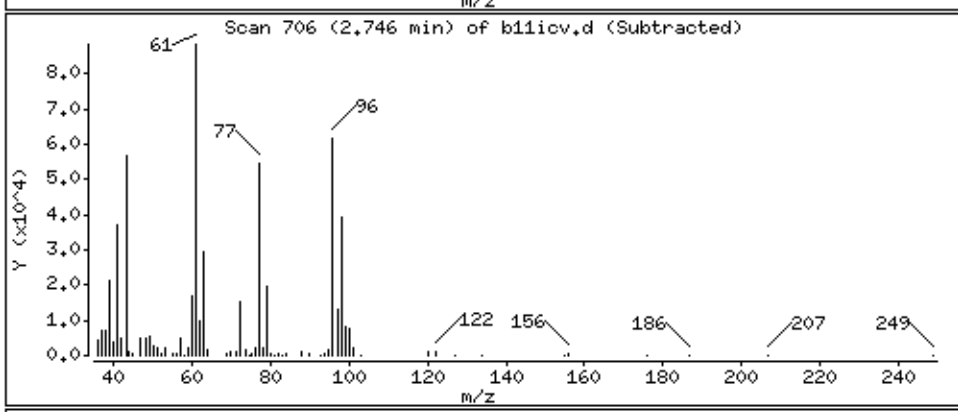
Column diameter: 0.18

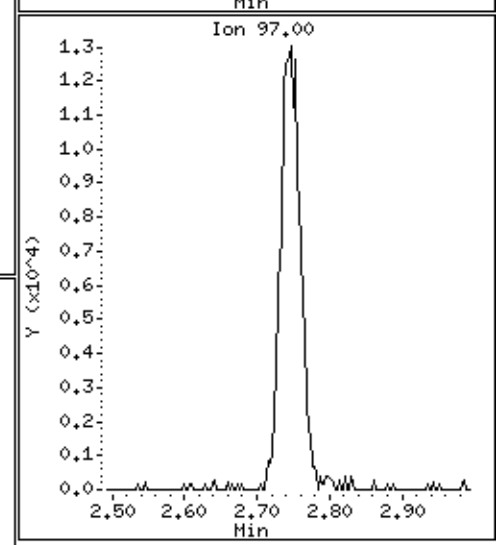
29 2,2-Dichloropropane

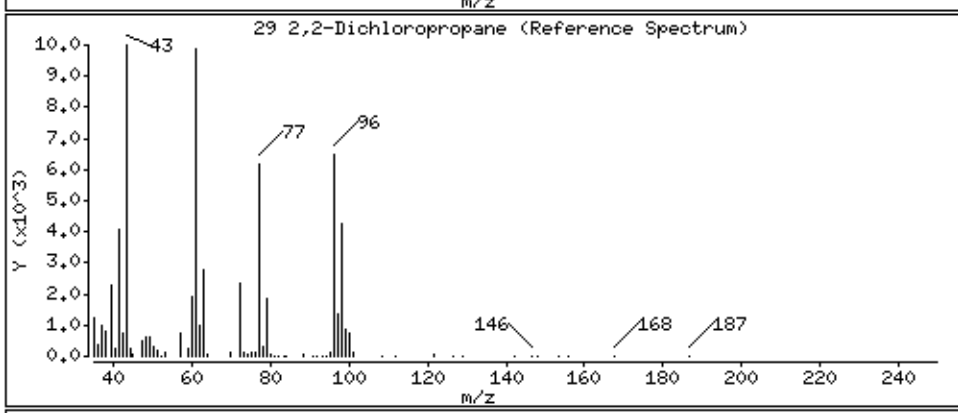
Concentration: 50.8 ppb

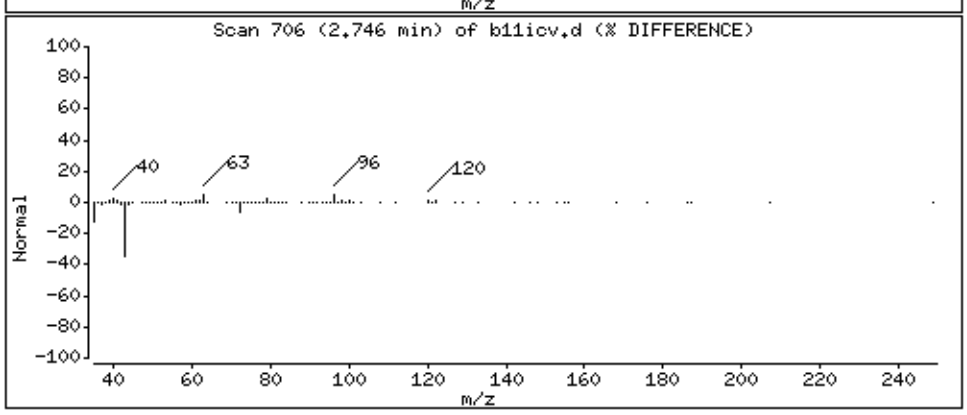












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

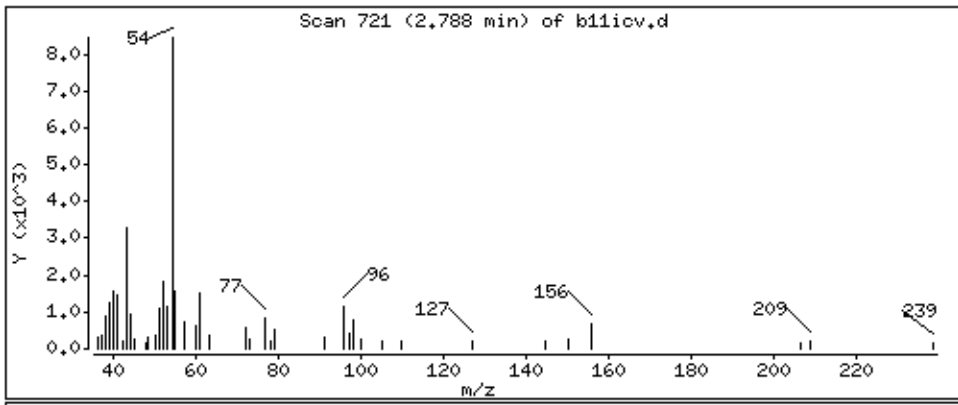
Operator: dae

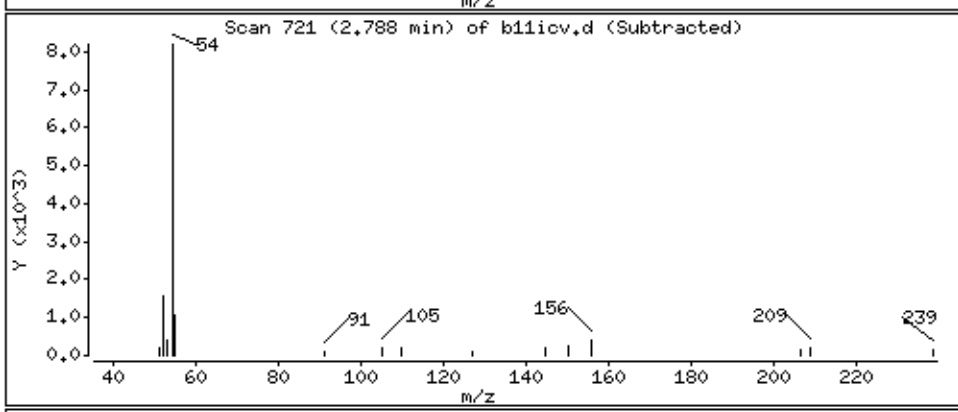
Column phase: DB-624

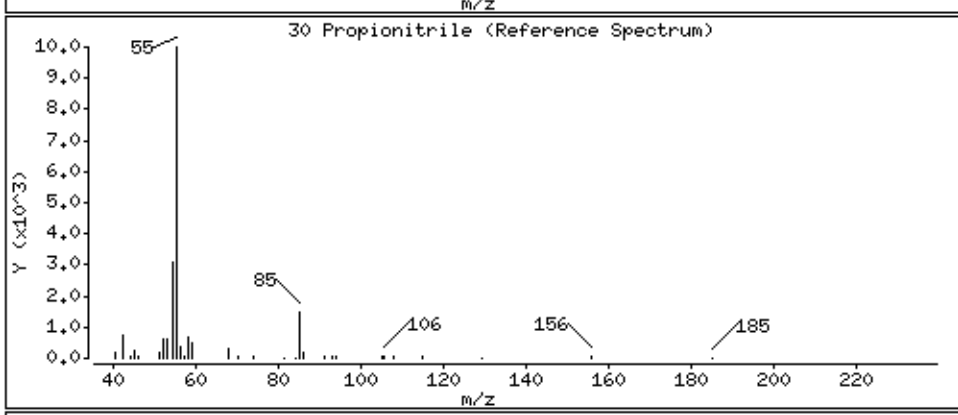
Column diameter: 0.18

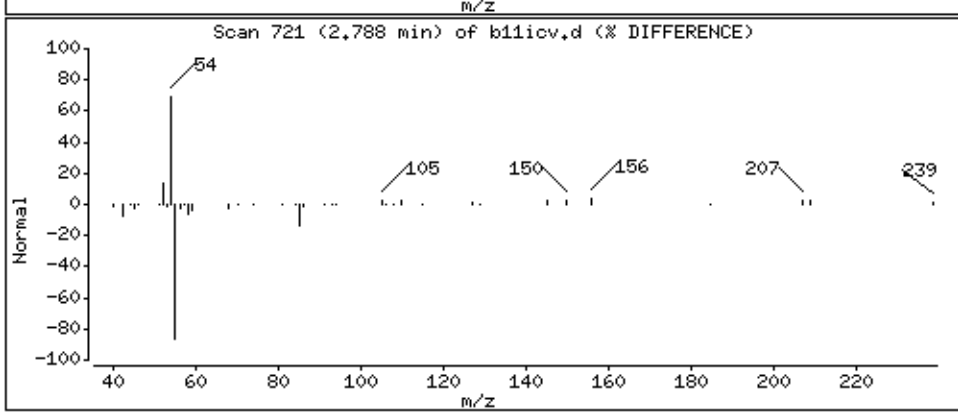
30 Propionitrile

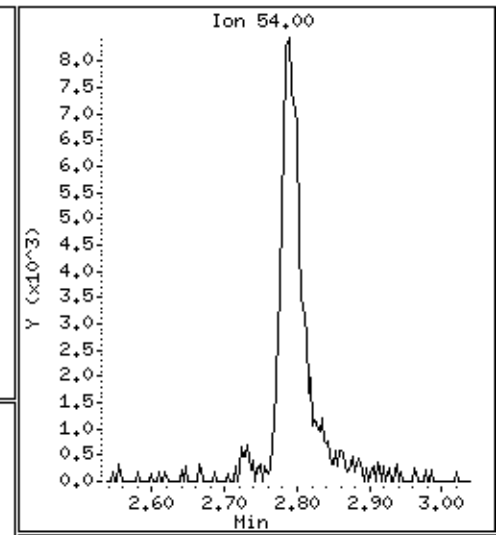
Concentration: 41.9 ppb

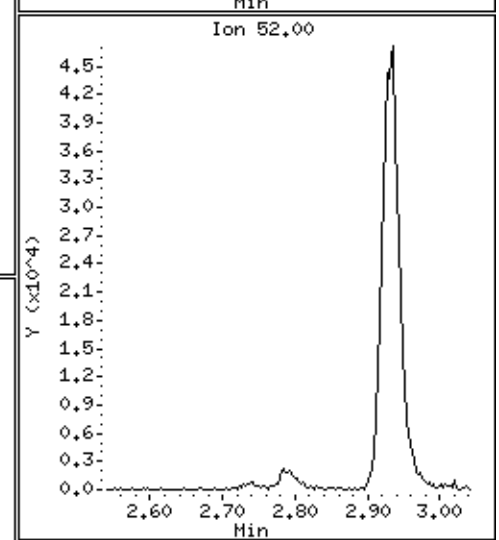


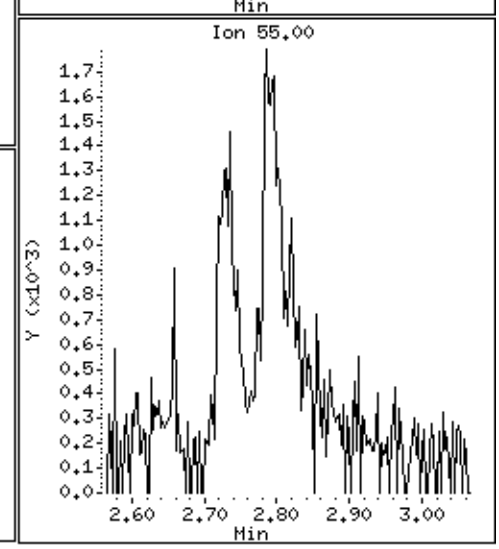












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

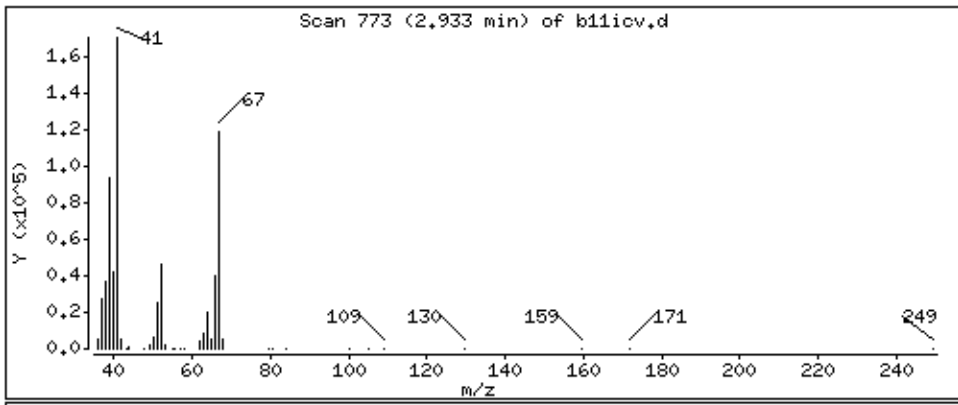
Operator: dae

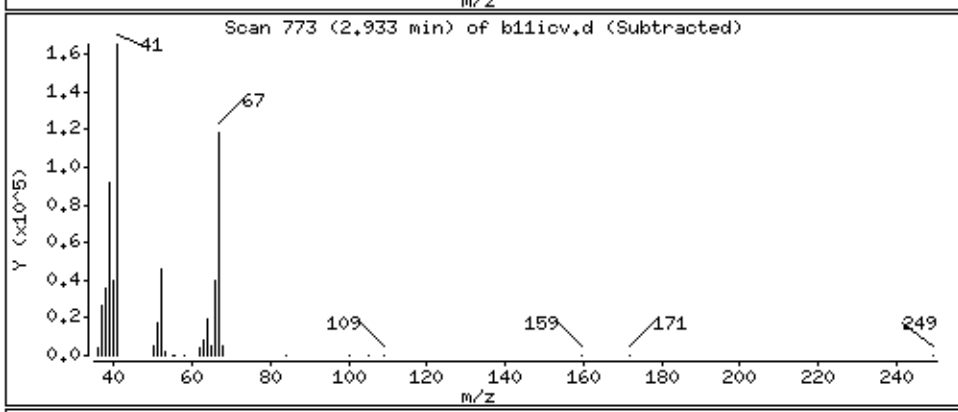
Column phase: DB-624

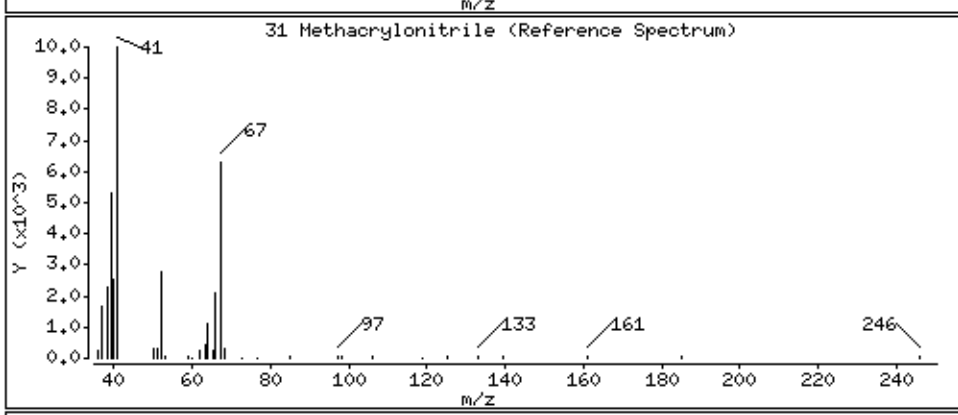
Column diameter: 0.18

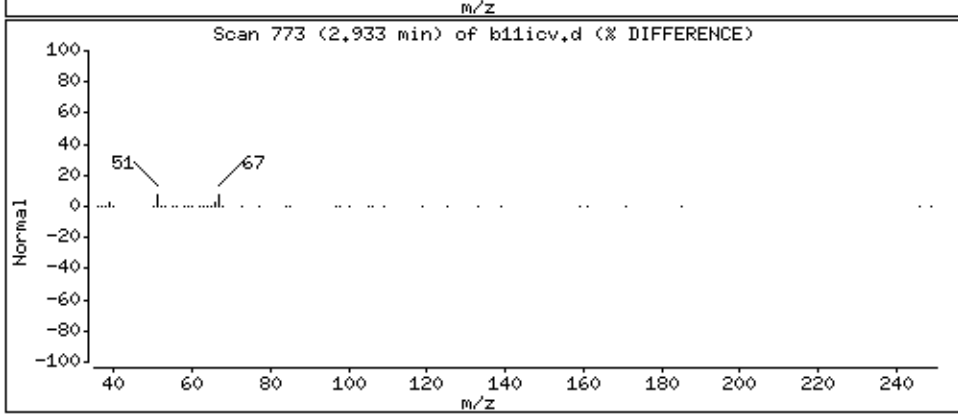
31 Methacrylonitrile

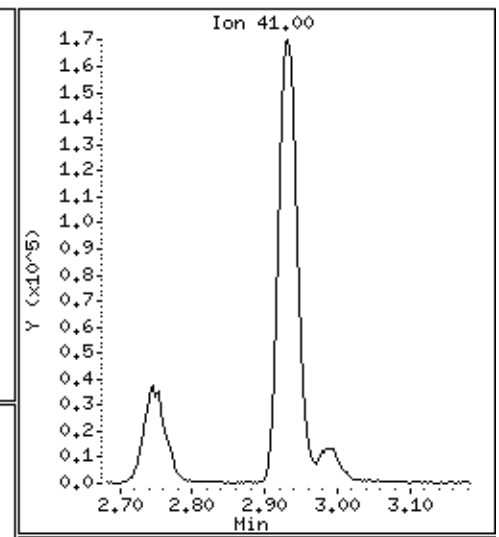
Concentration: 218 ppb

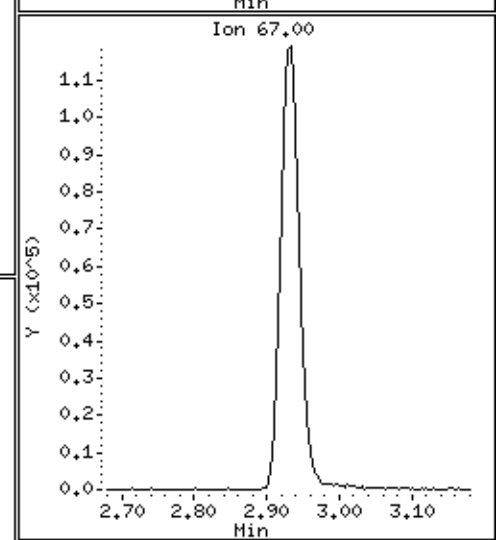


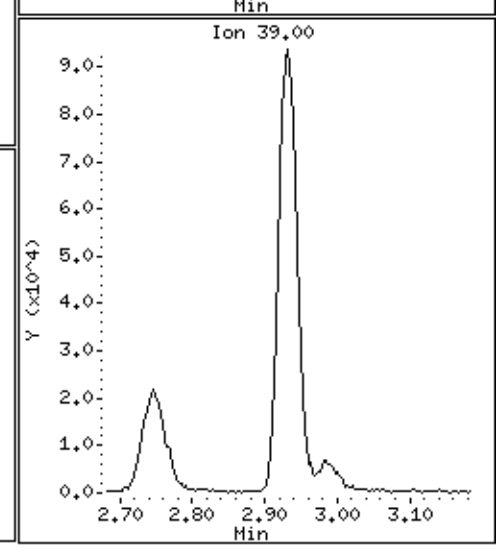












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

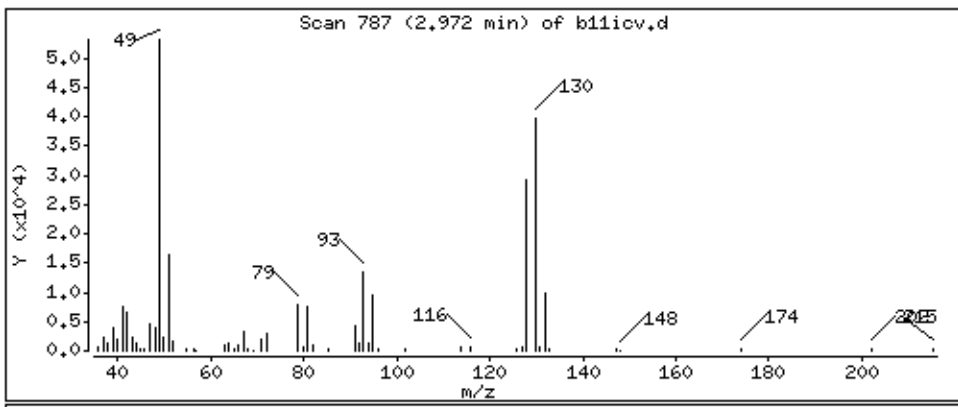
Operator: dae

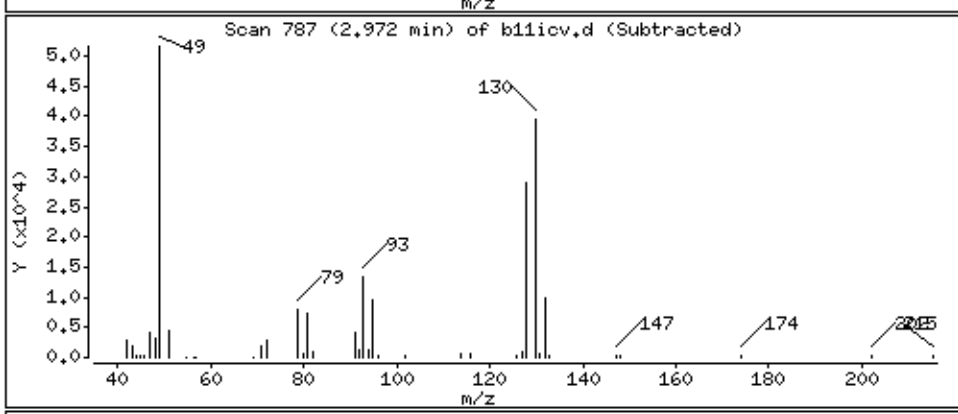
Column phase: DB-624

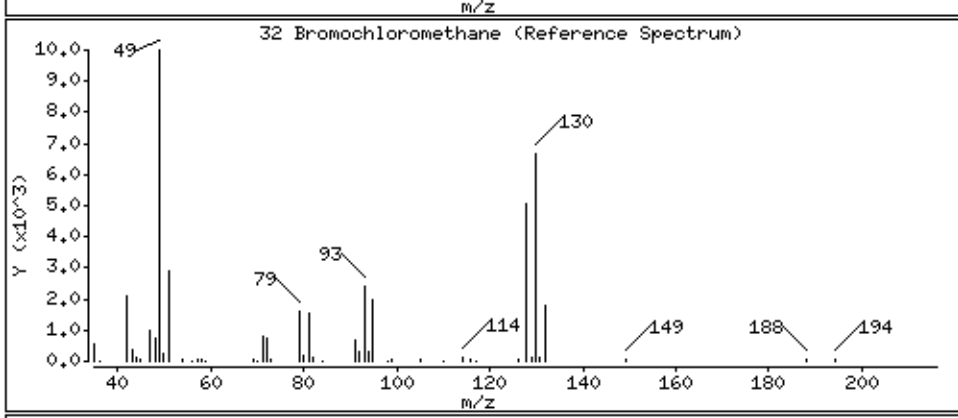
Column diameter: 0.18

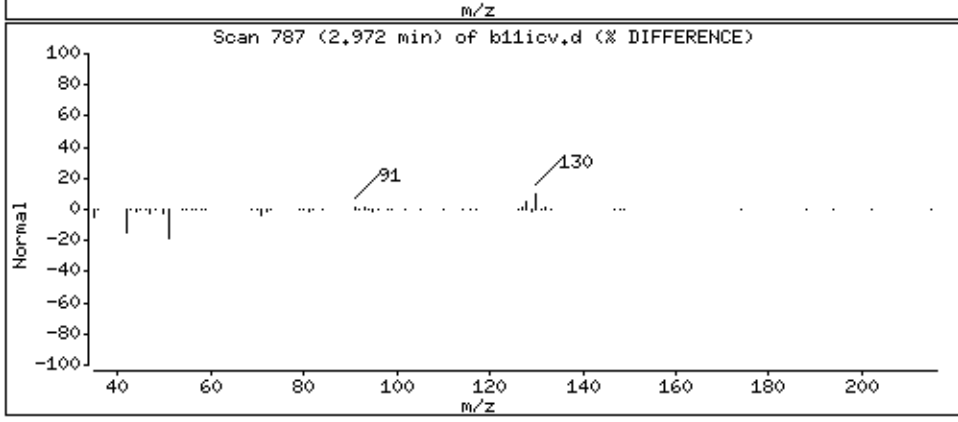
32 Bromochloromethane

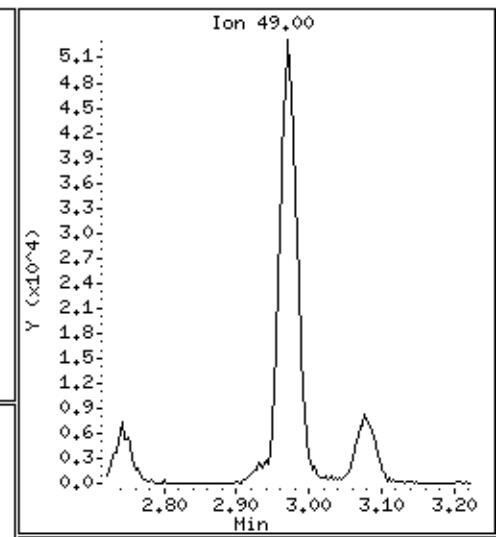
Concentration: 51.1 ppb

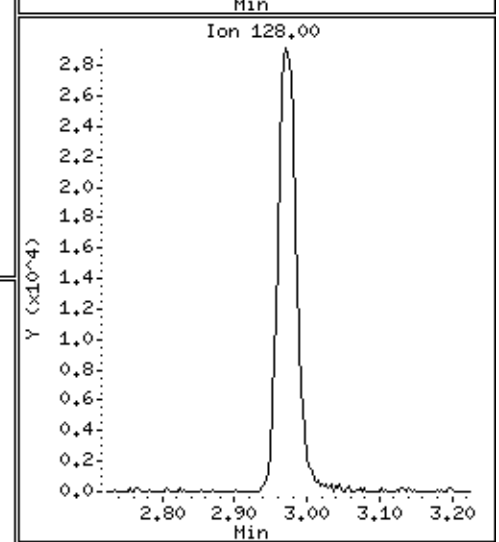


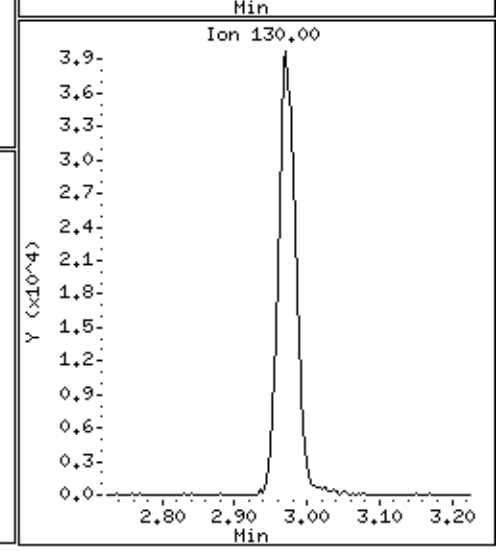












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

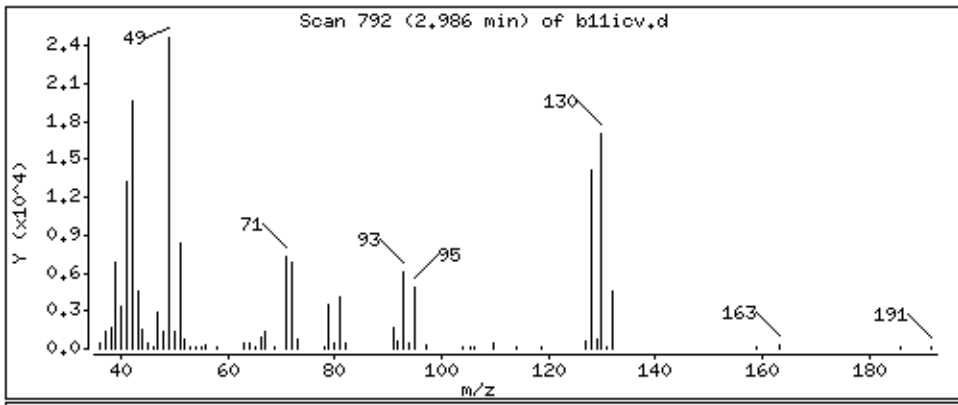
Operator: dae

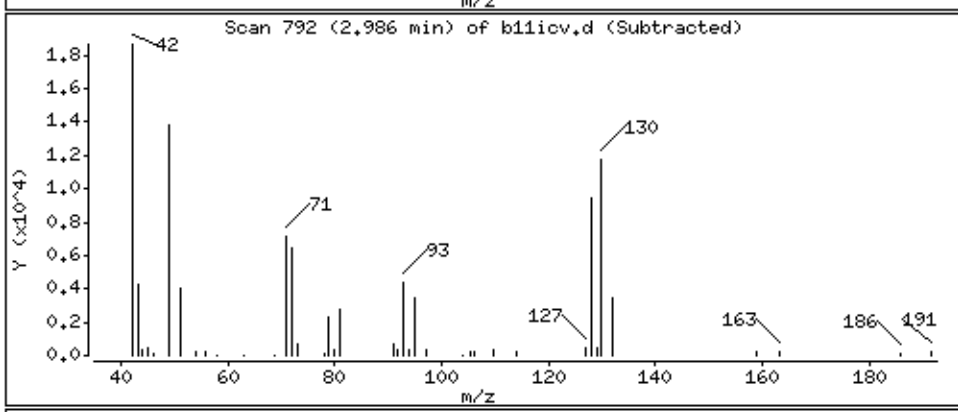
Column phase: DB-624

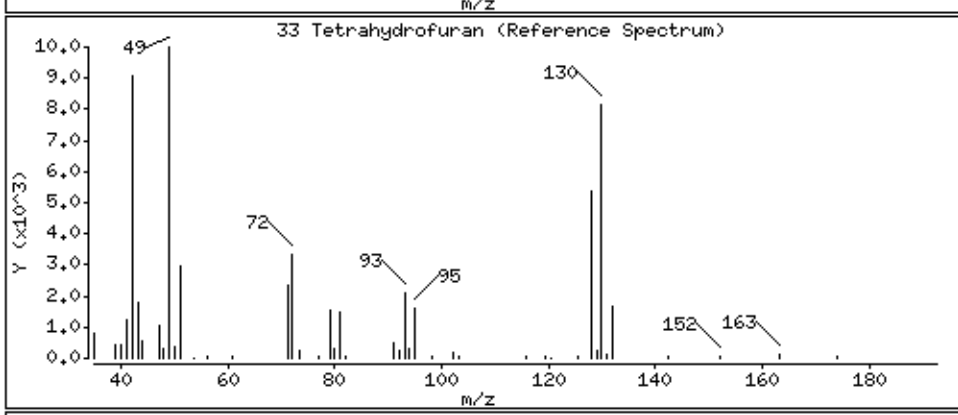
Column diameter: 0.18

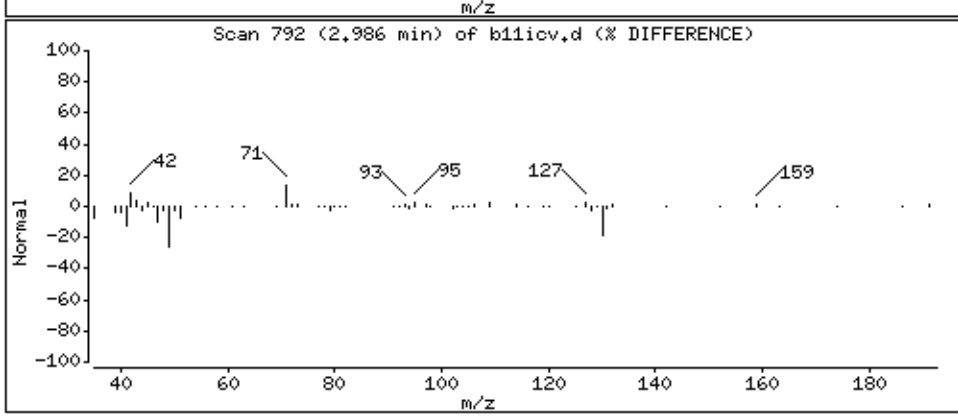
33 Tetrahydrofuran

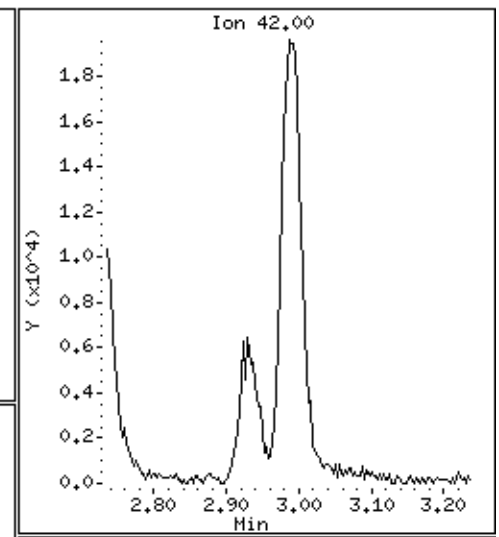
Concentration: 56.7 ppb

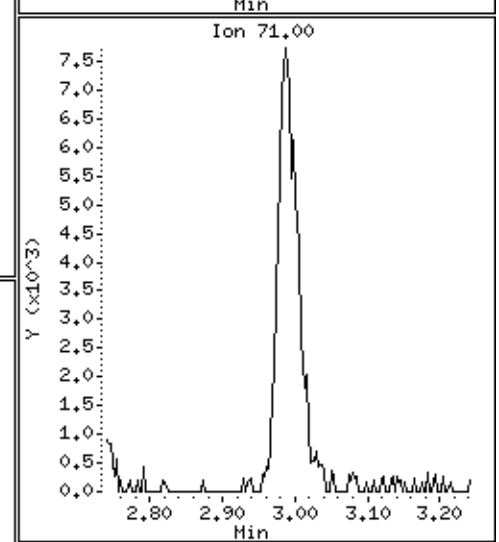


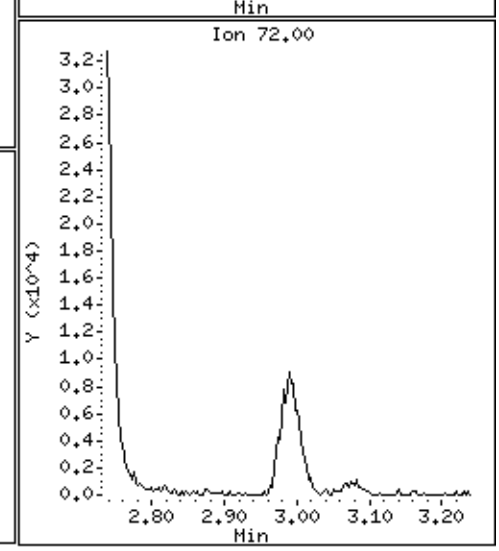












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

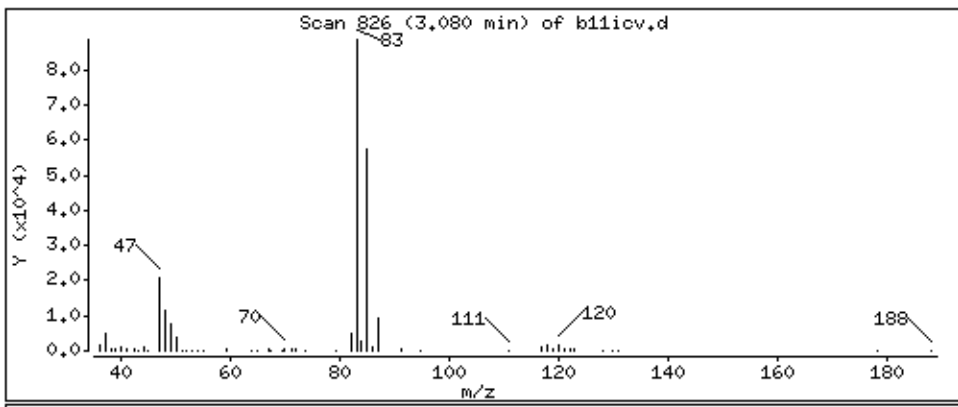
Operator: dae

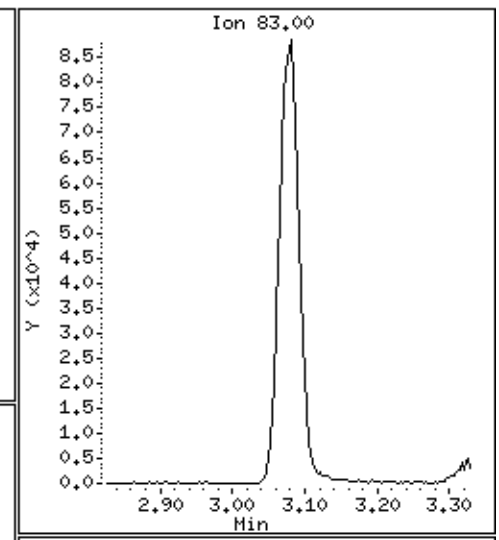
Column phase: DB-624

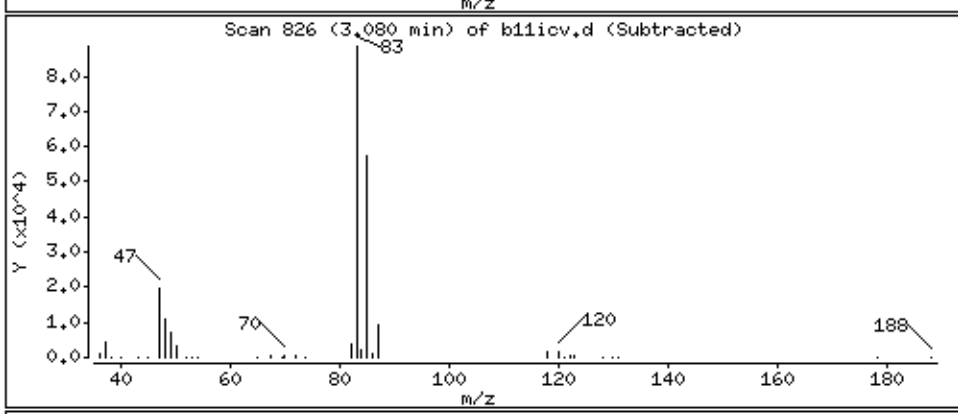
Column diameter: 0.18

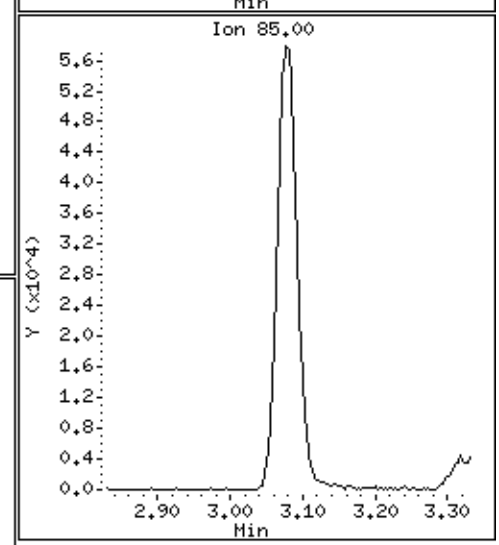
34 Chloroform

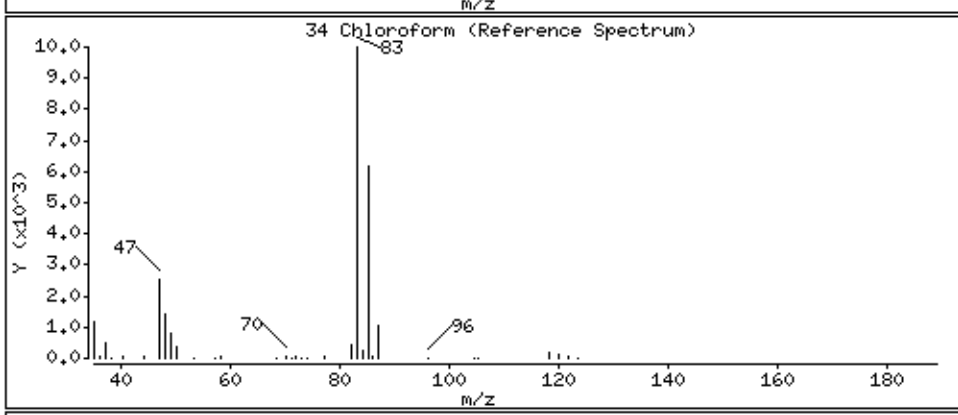
Concentration: 55.2 ppb

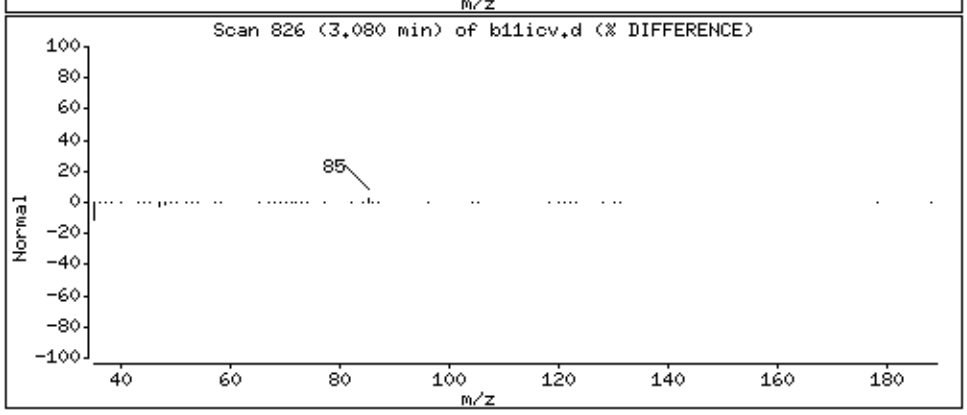












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

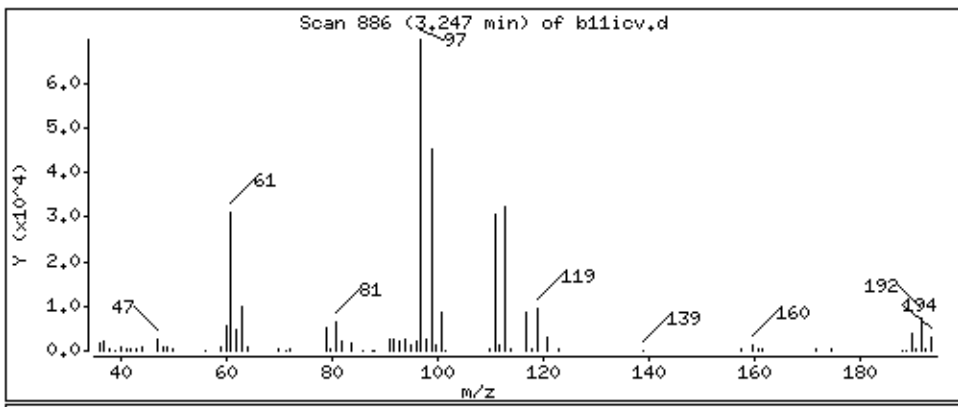
Operator: dae

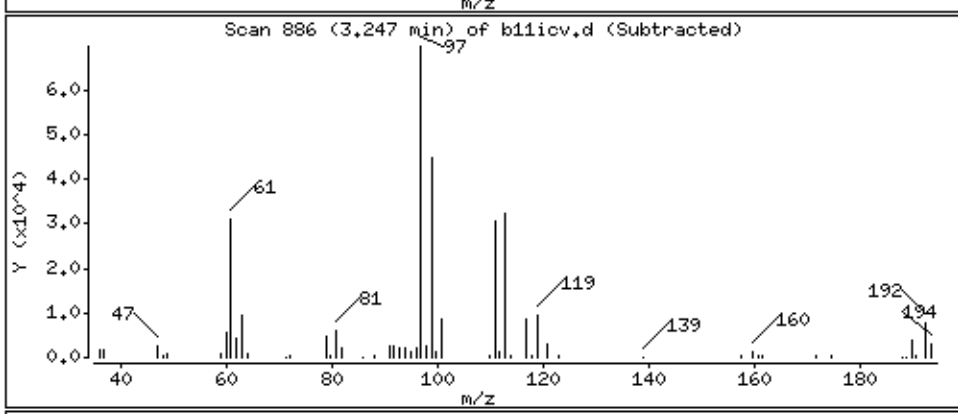
Column phase: DB-624

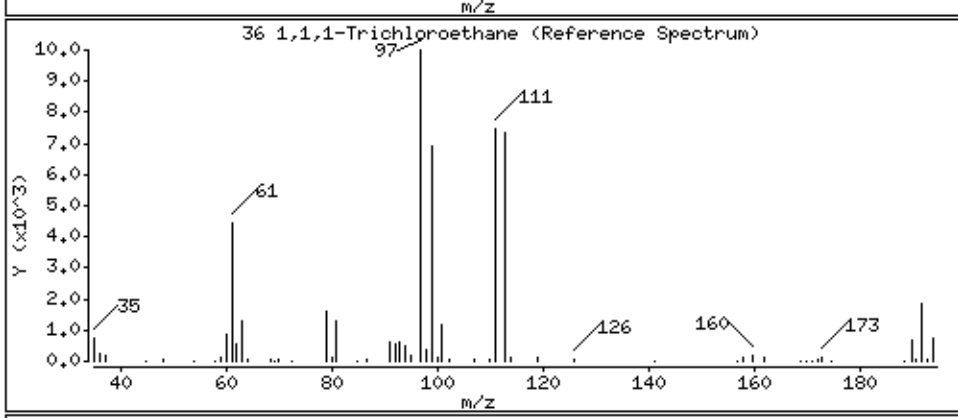
Column diameter: 0.18

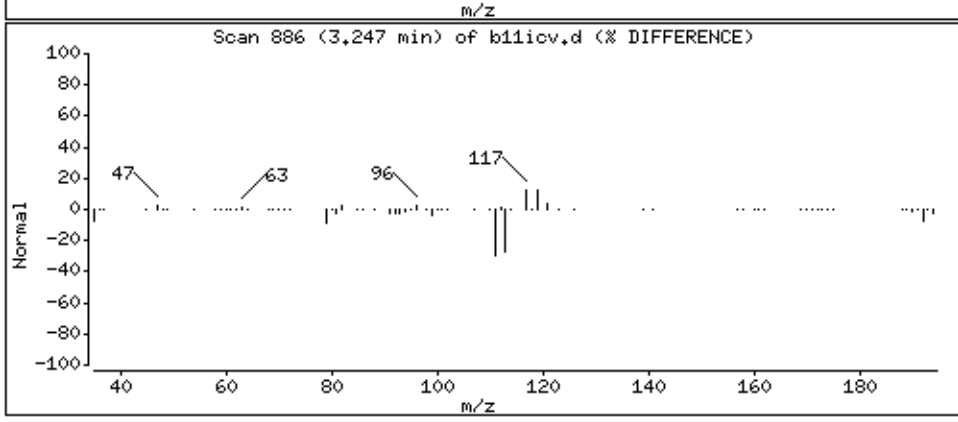
36 1,1,1-Trichloroethane

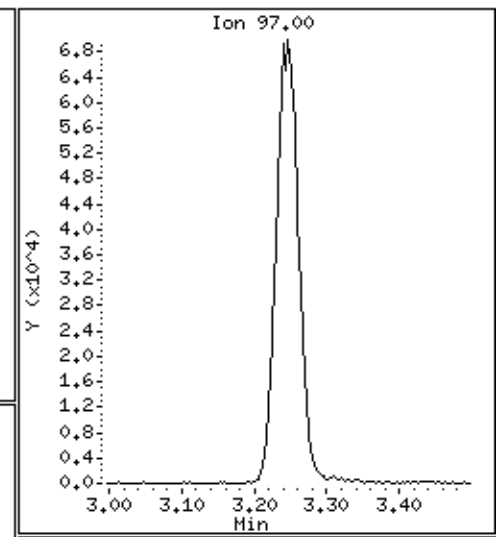
Concentration: 48.4 ppb

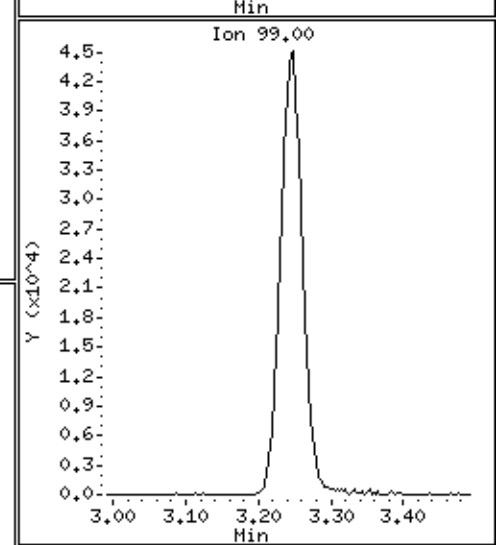


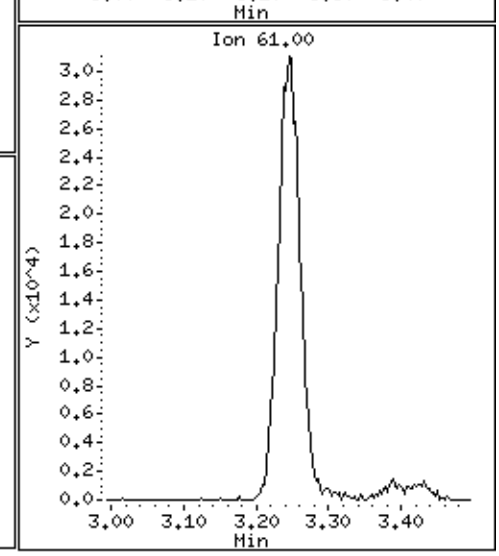












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

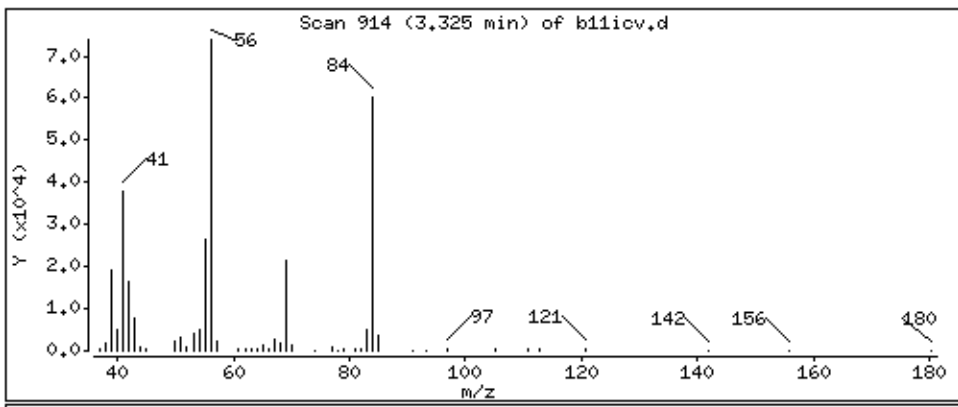
Operator: dae

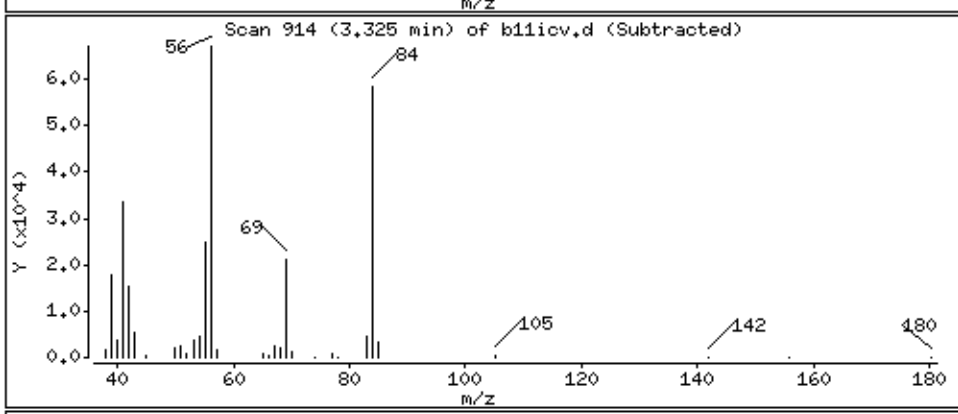
Column phase: DB-624

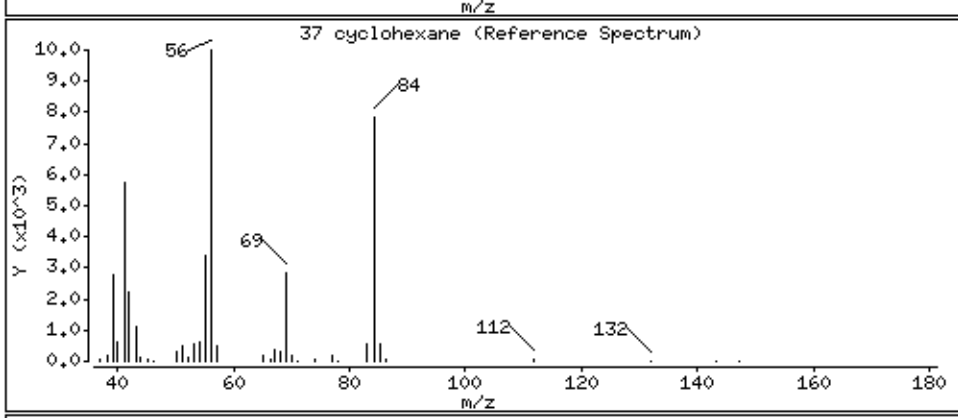
Column diameter: 0.18

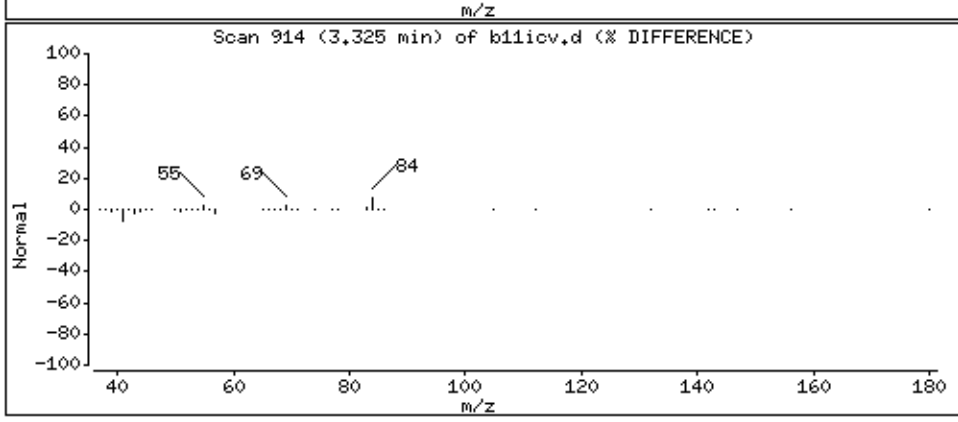
37 cyclohexane

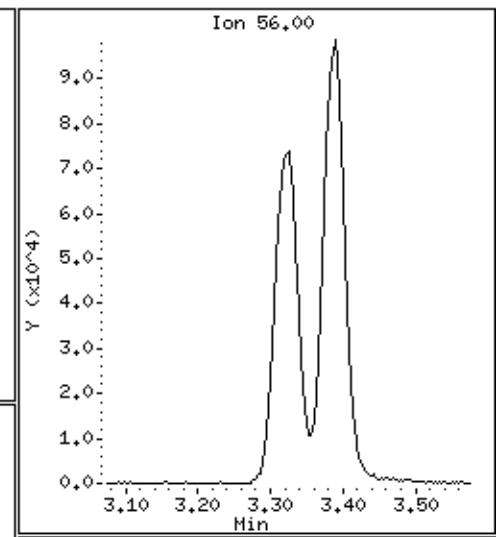
Concentration: 55.2 ppb

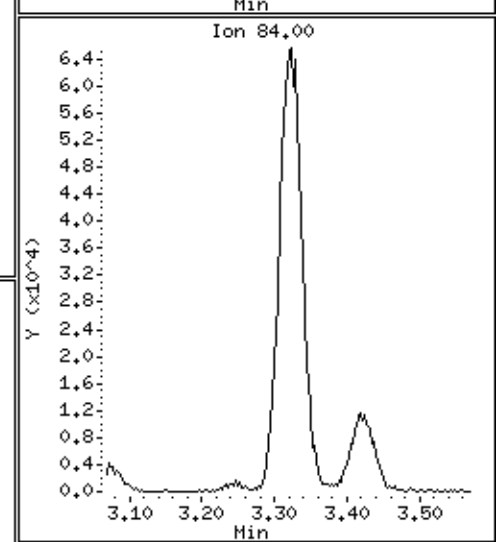


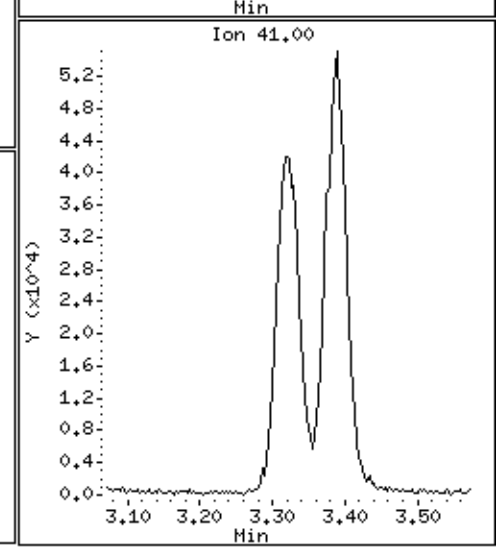












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

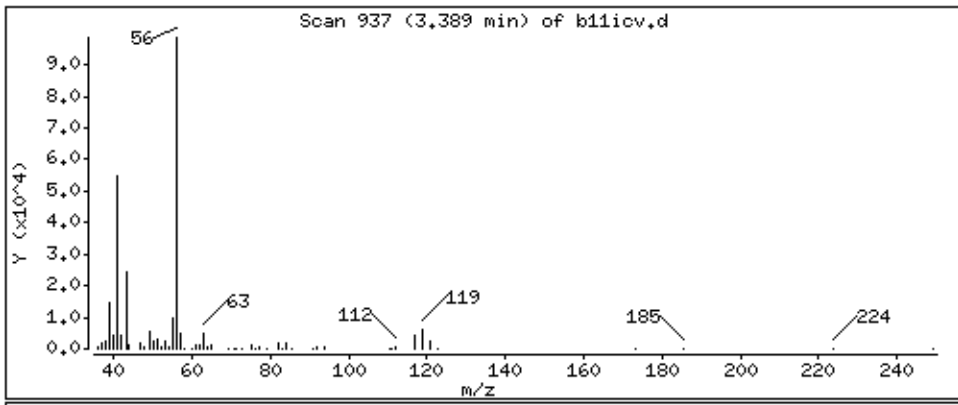
Operator: dae

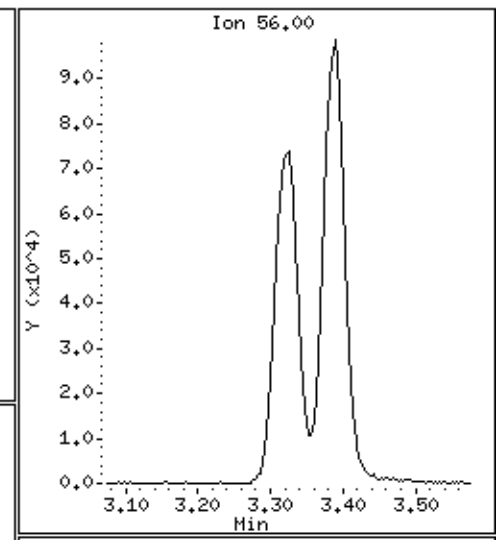
Column phase: DB-624

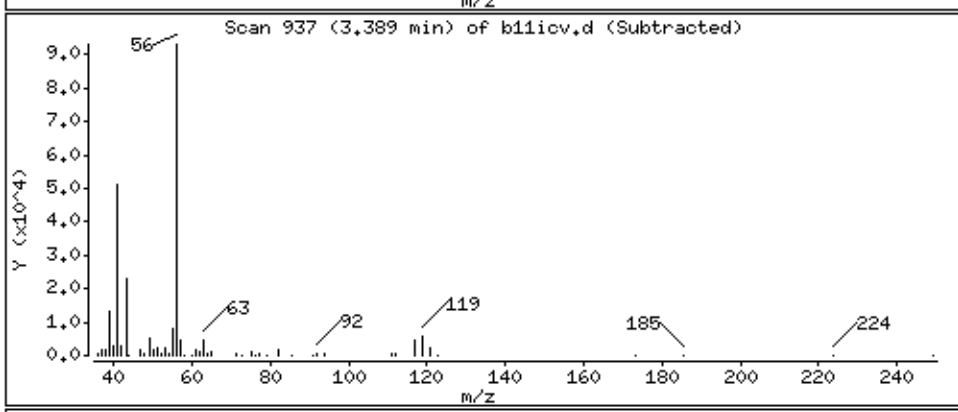
Column diameter: 0.18

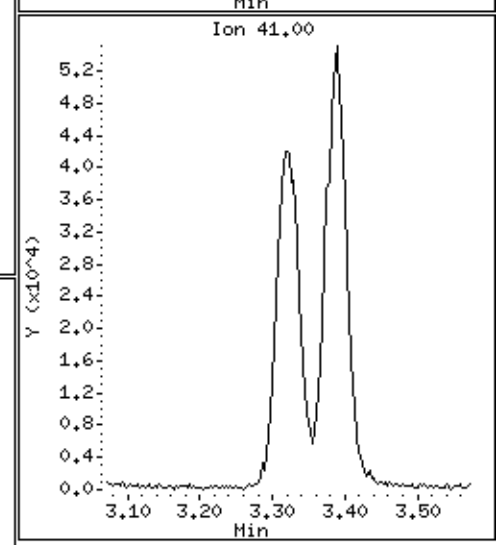
146 n-butyl chloride

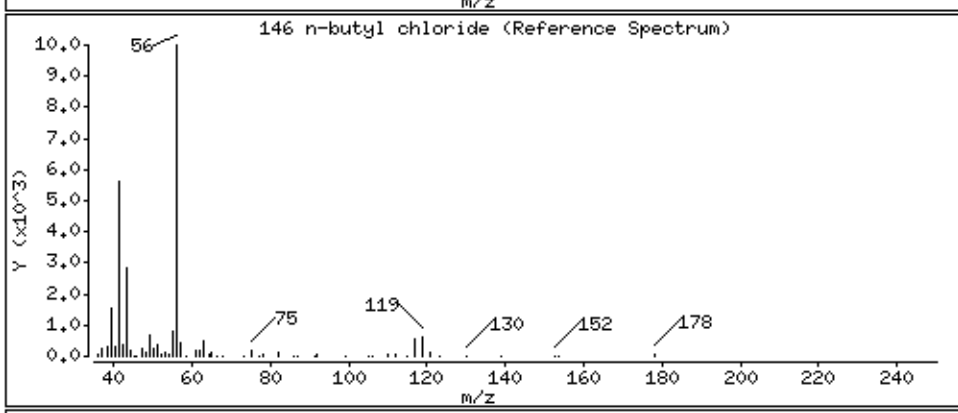
Concentration: 55.2 ppb

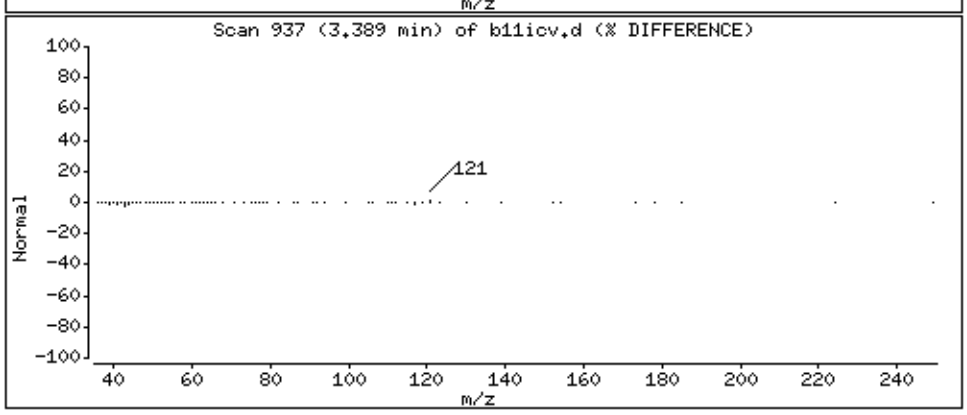












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

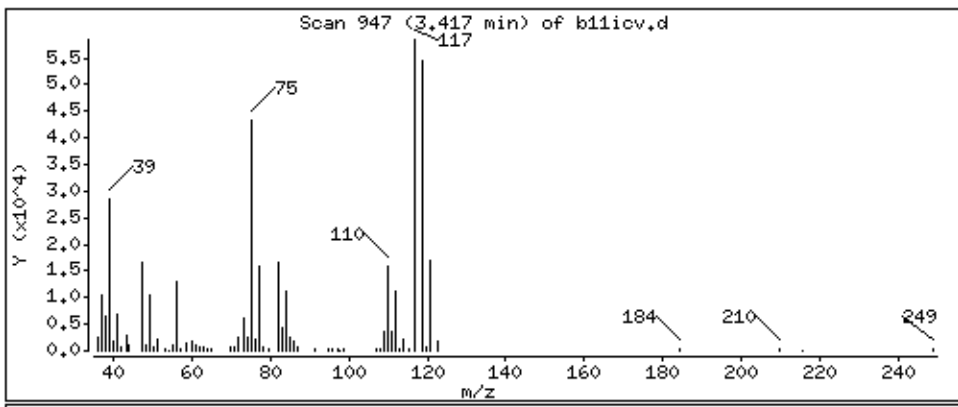
Operator: dae

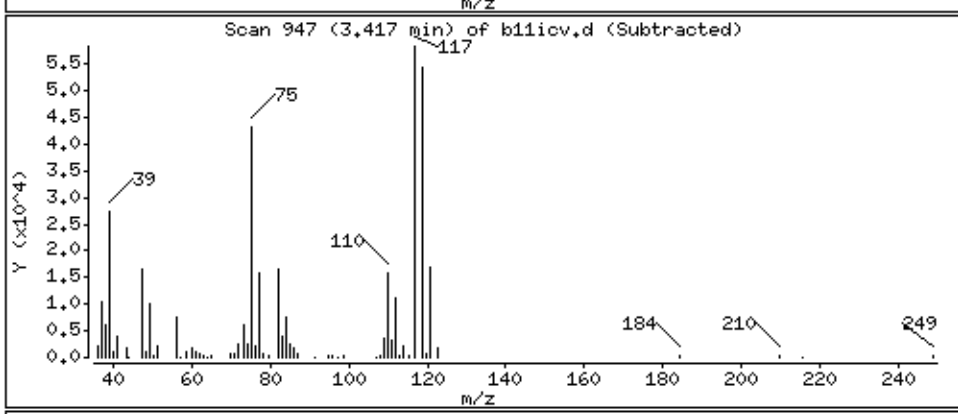
Column phase: DB-624

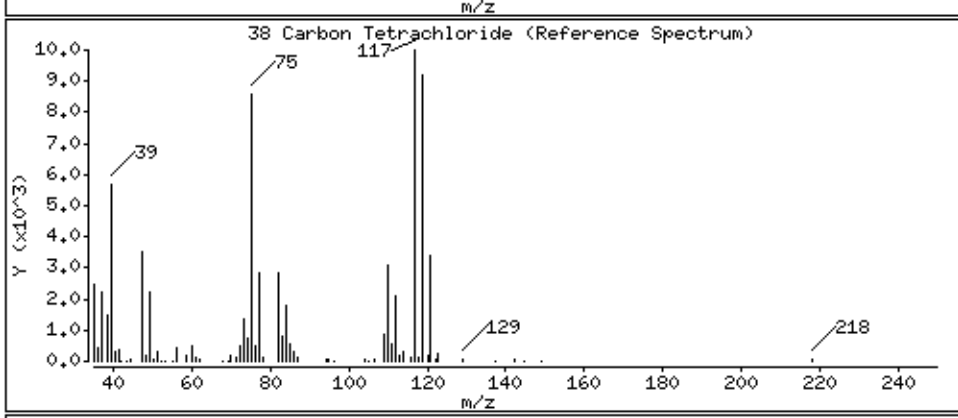
Column diameter: 0.18

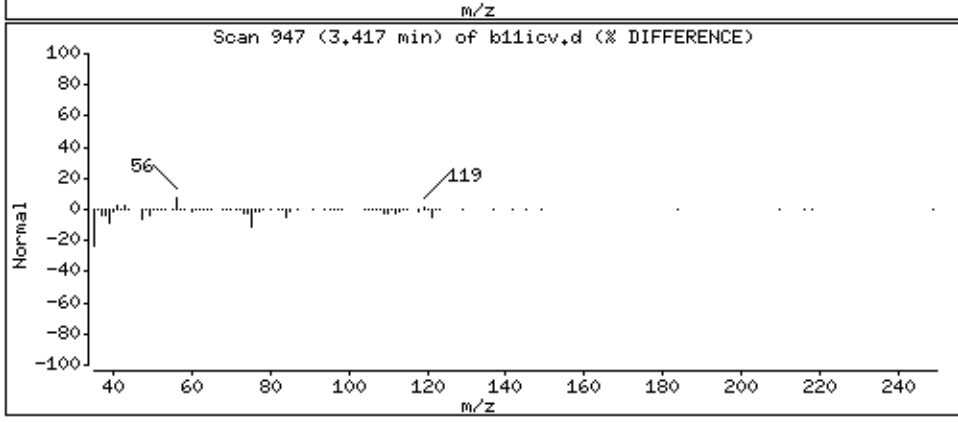
38 Carbon Tetrachloride

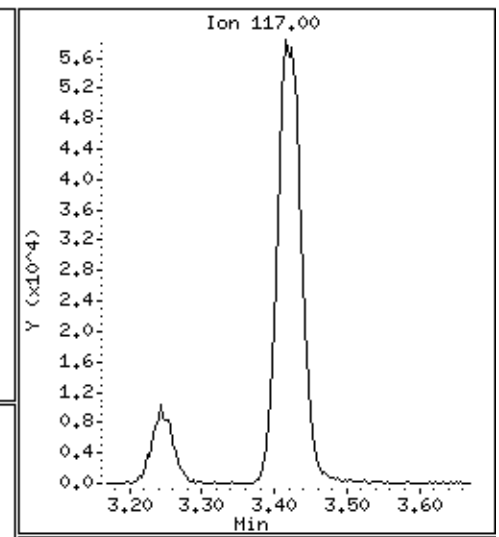
Concentration: 51.0 ppb

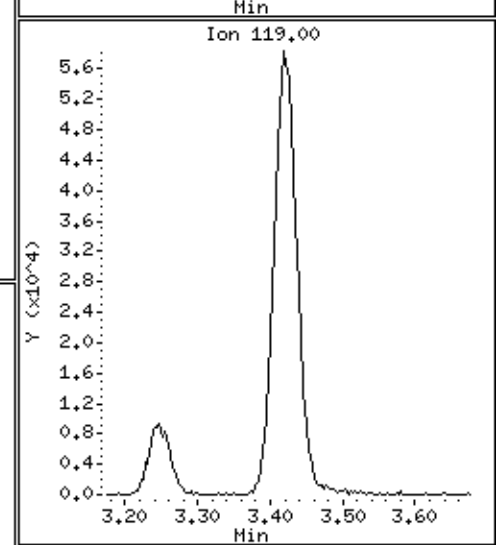


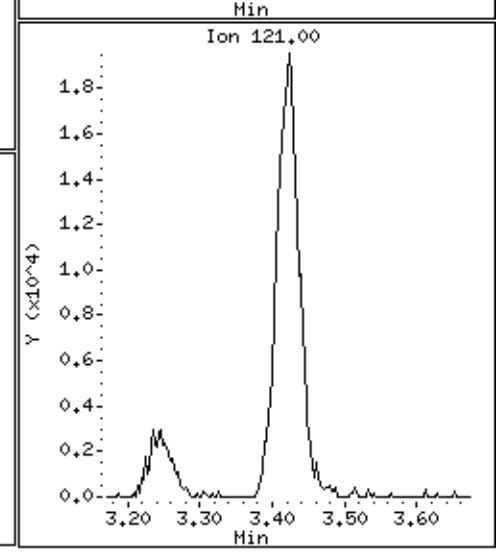












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

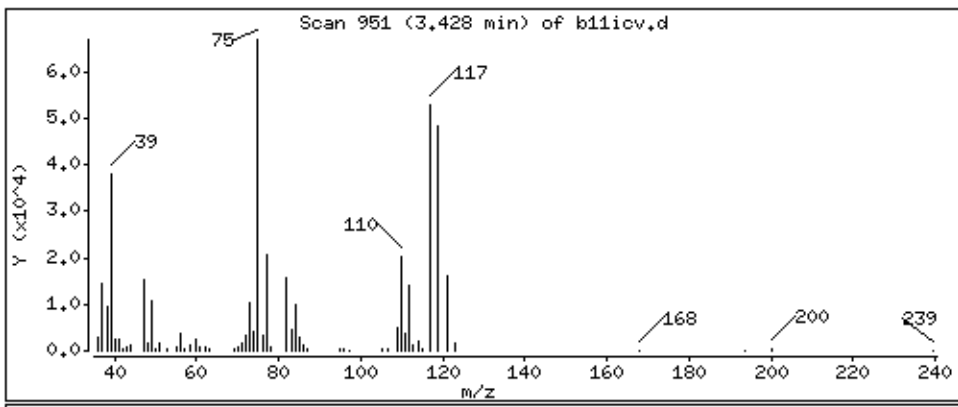
Operator: dae

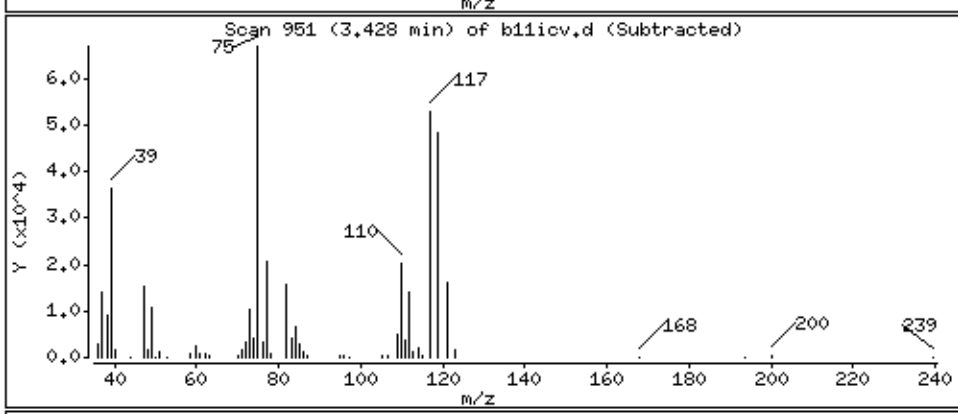
Column phase: DB-624

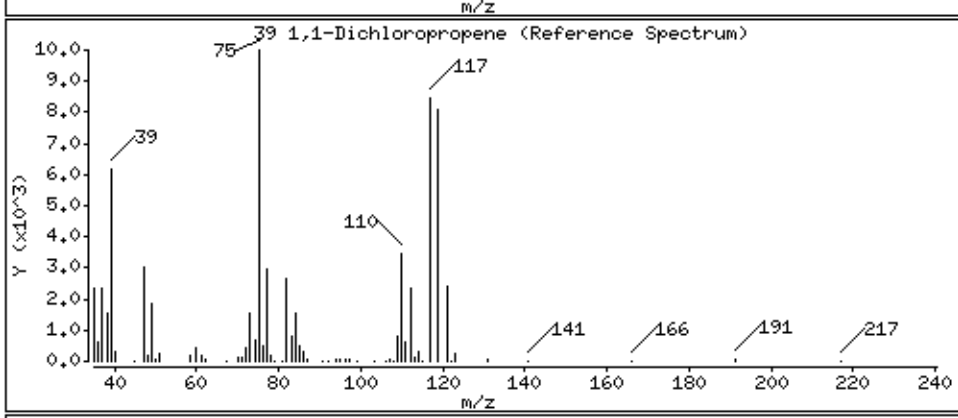
Column diameter: 0.18

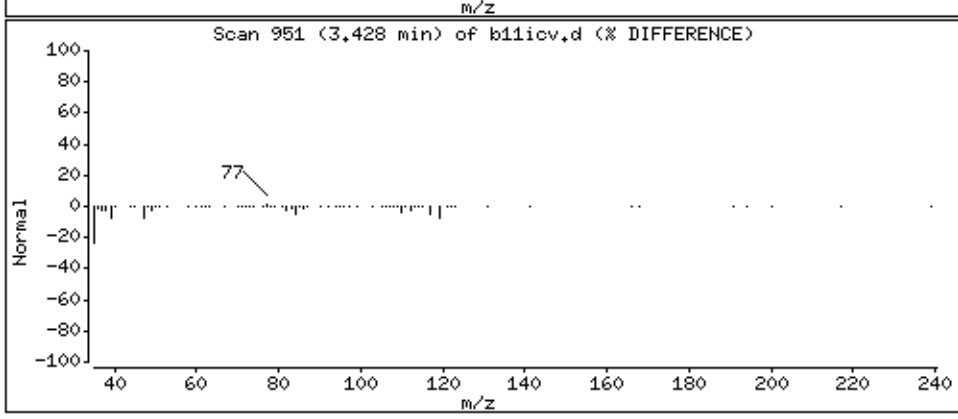
39 1,1-Dichloropropene

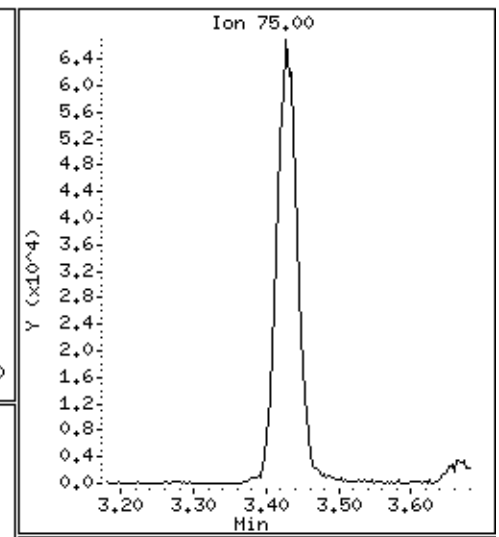
Concentration: 51.3 ppb

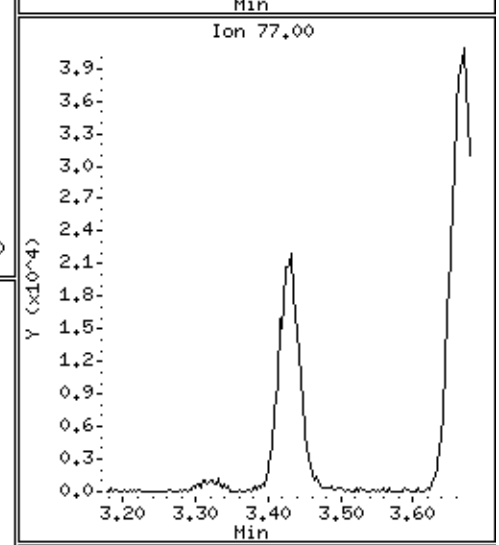


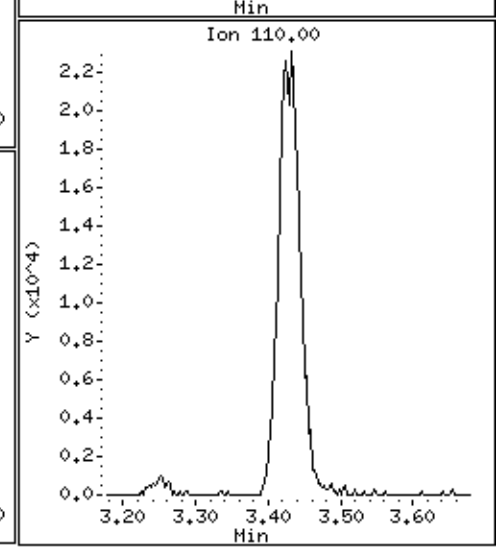












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

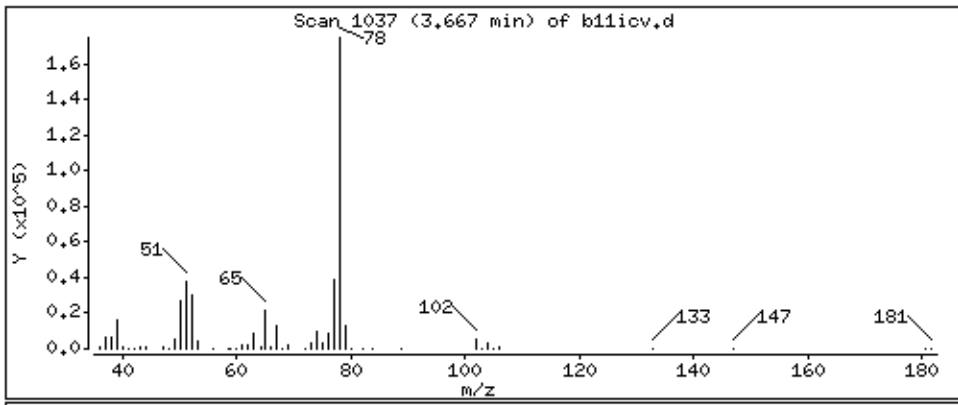
Operator: dae

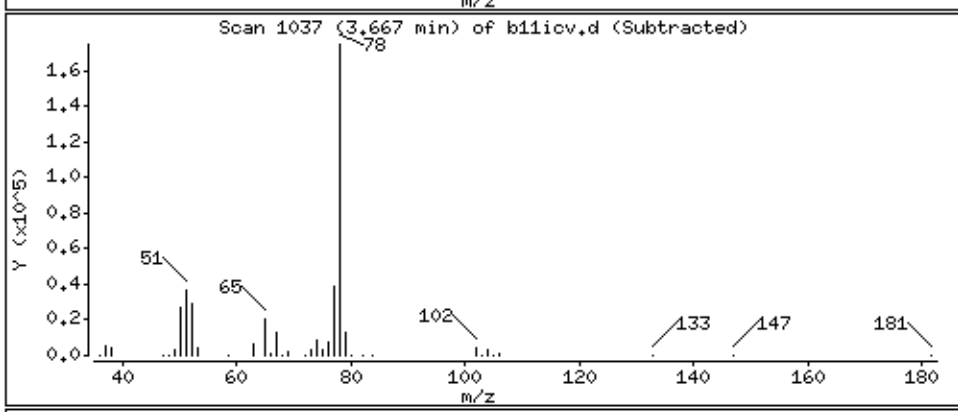
Column phase: DB-624

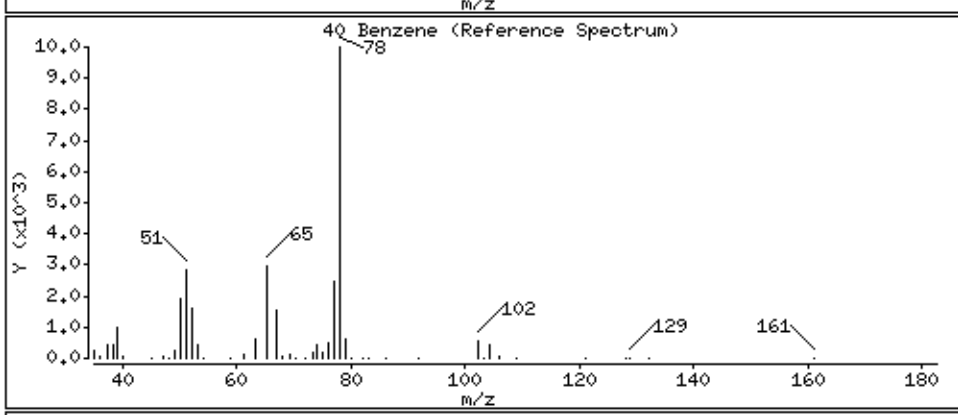
Column diameter: 0.18

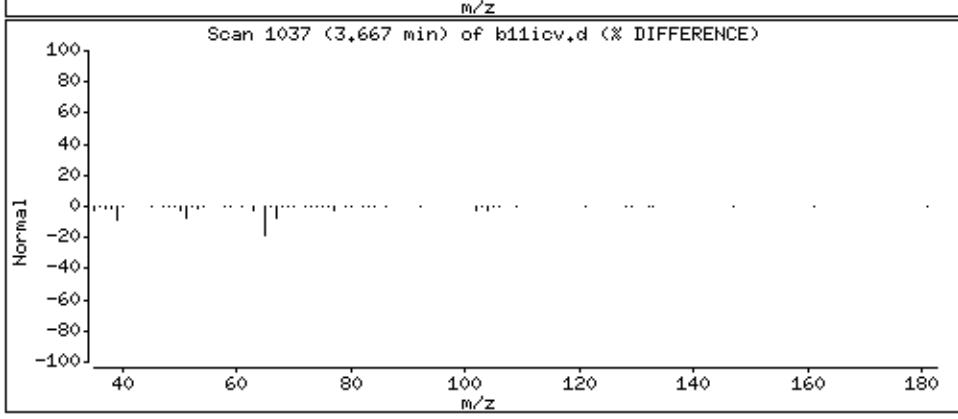
40 Benzene

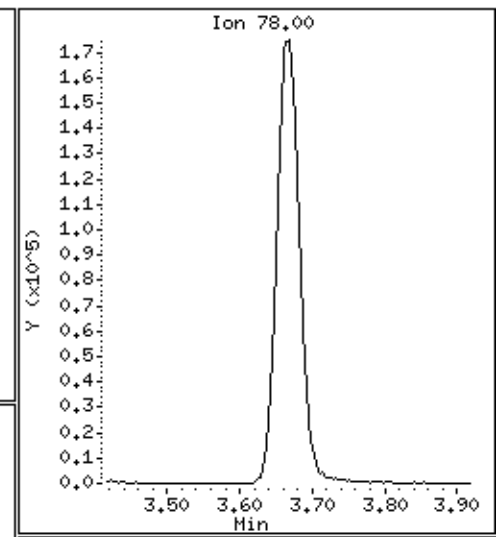
Concentration: 50.5 ppb

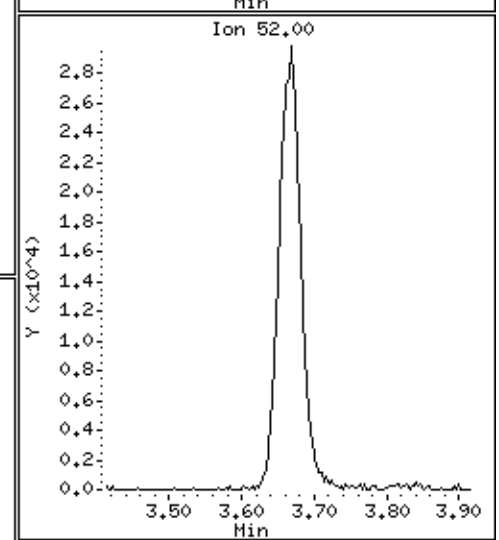


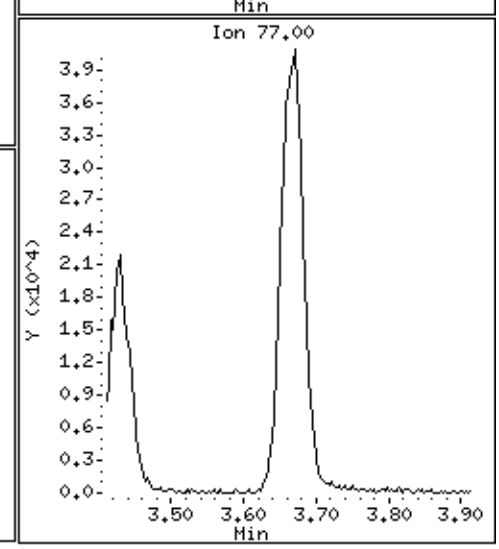












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

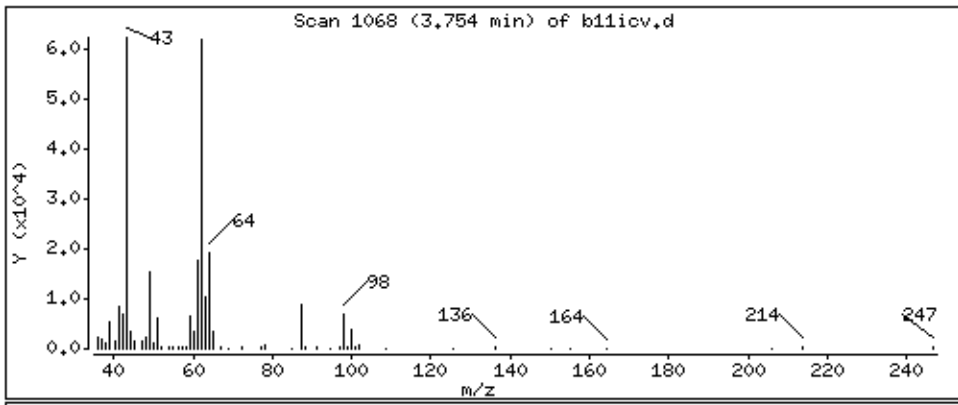
Operator: dae

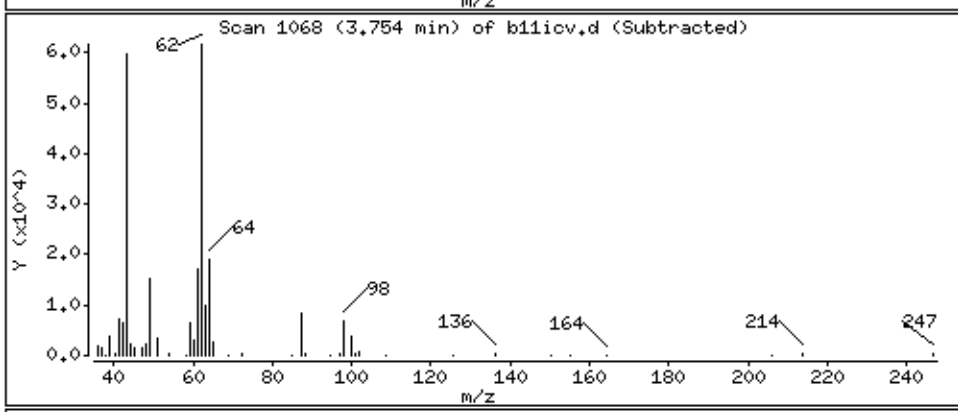
Column phase: DB-624

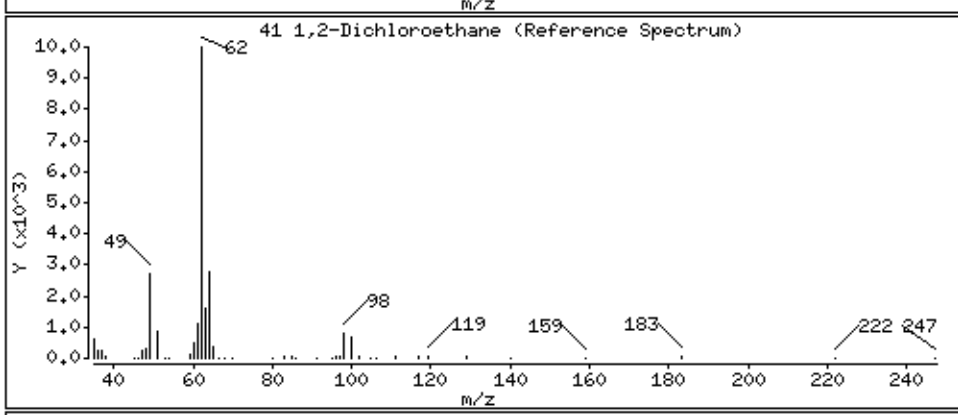
Column diameter: 0.18

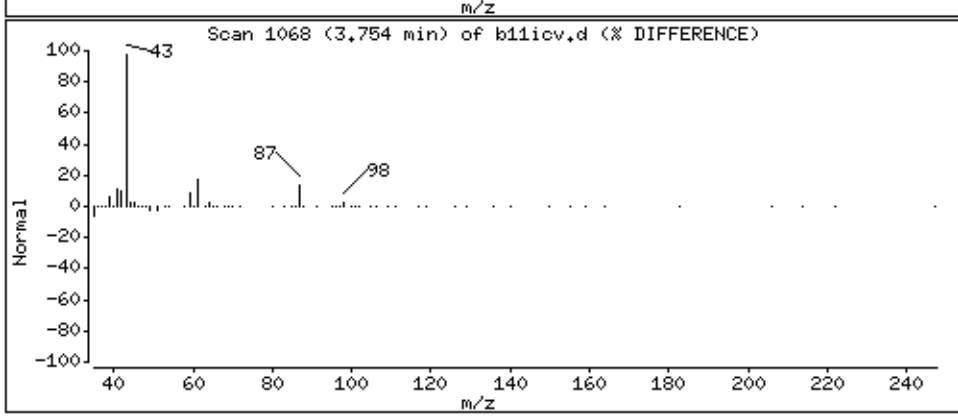
41 1,2-Dichloroethane

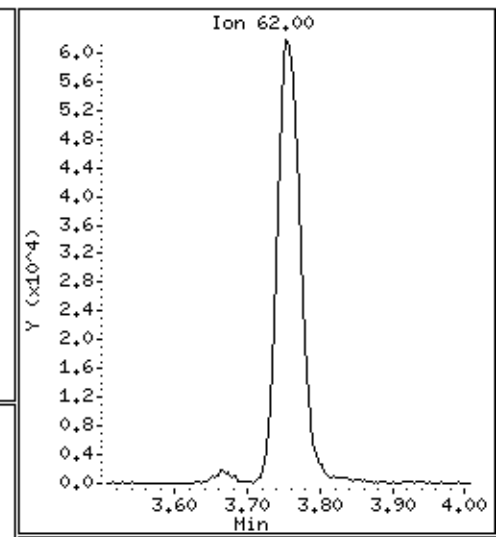
Concentration: 50.1 ppb

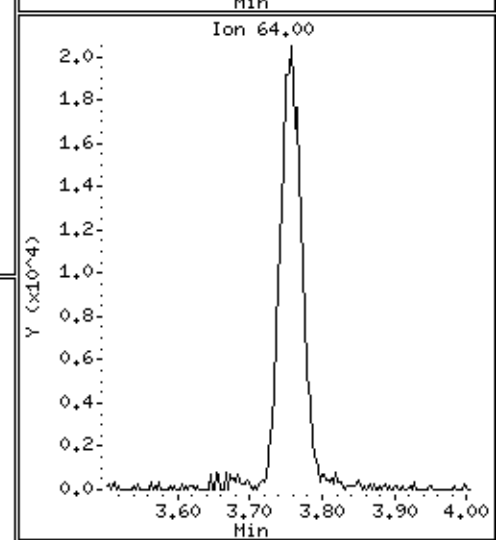


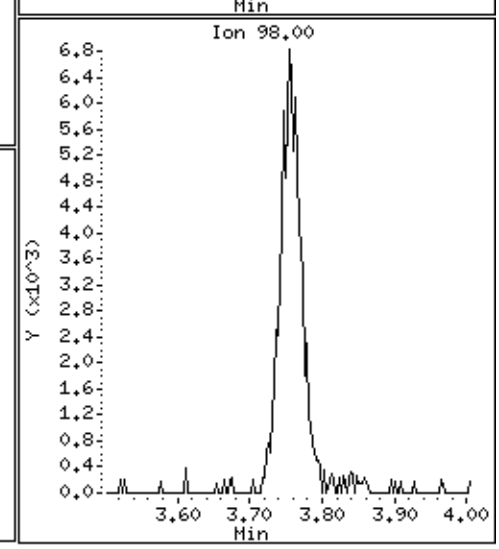












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

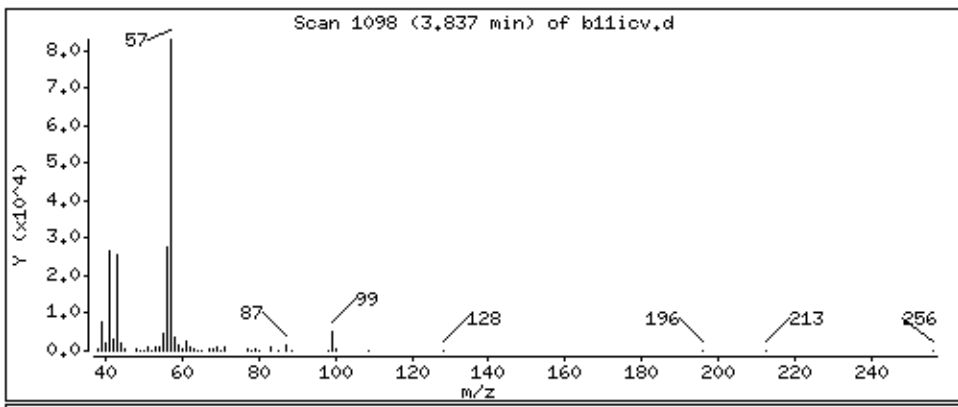
Operator: dae

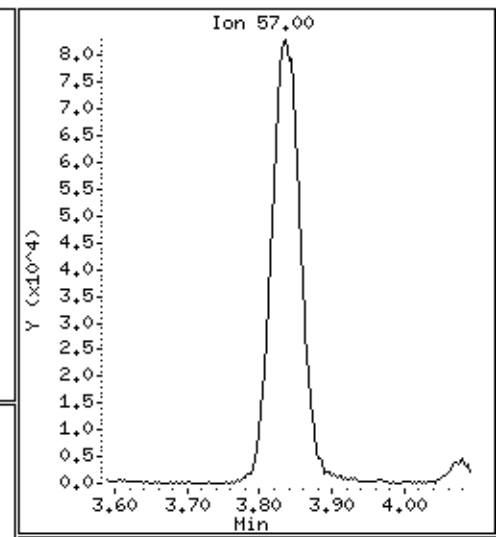
Column phase: DB-624

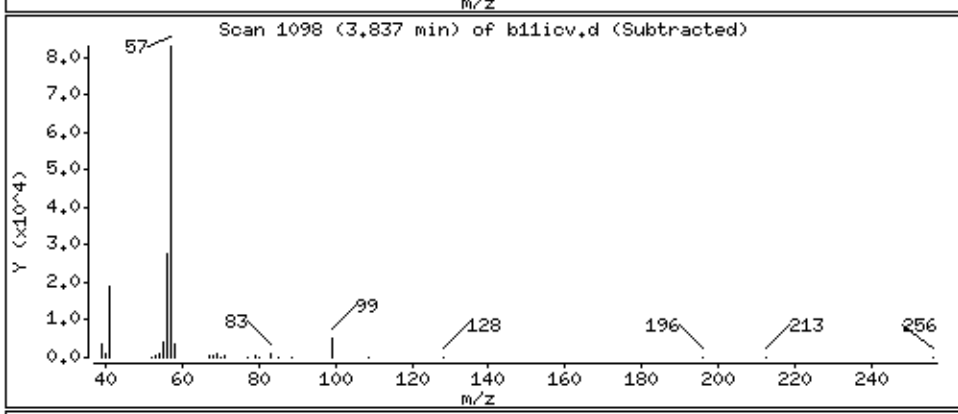
Column diameter: 0.18

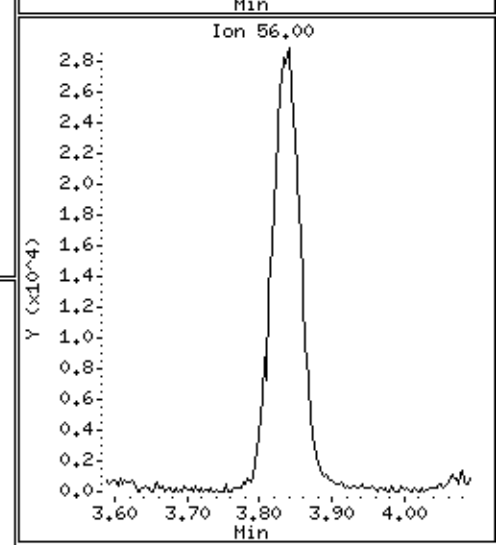
42 2,2,4-Trimethylpentane

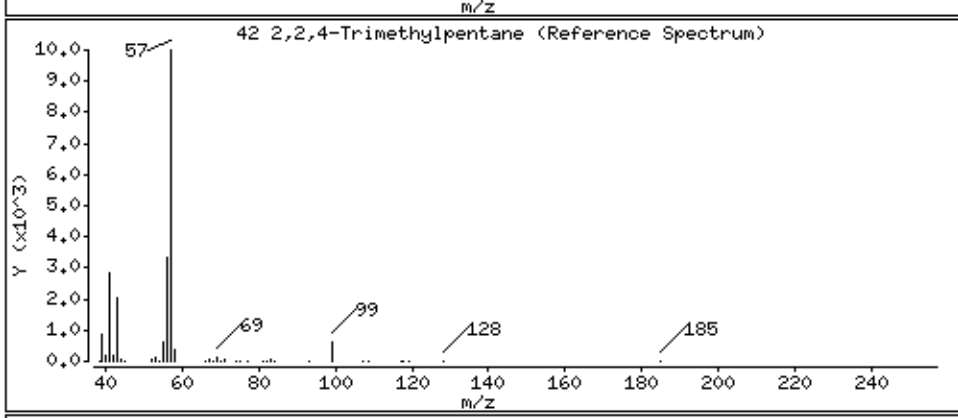
Concentration: 54.0 ppb

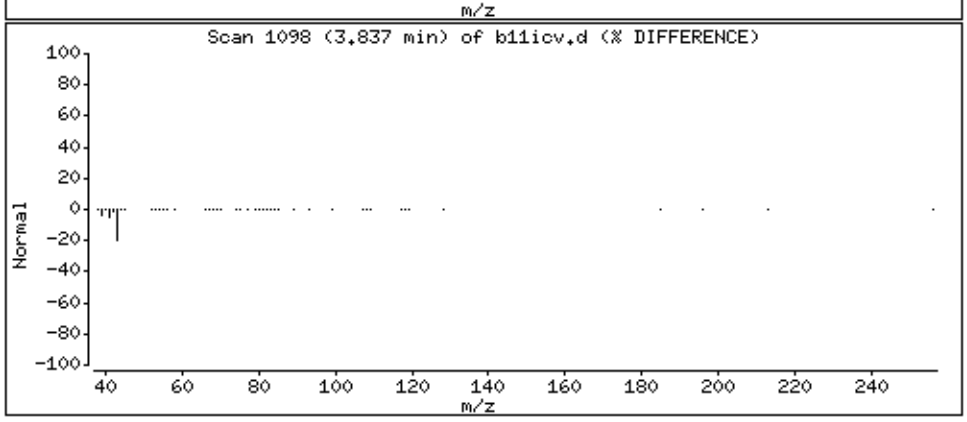












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

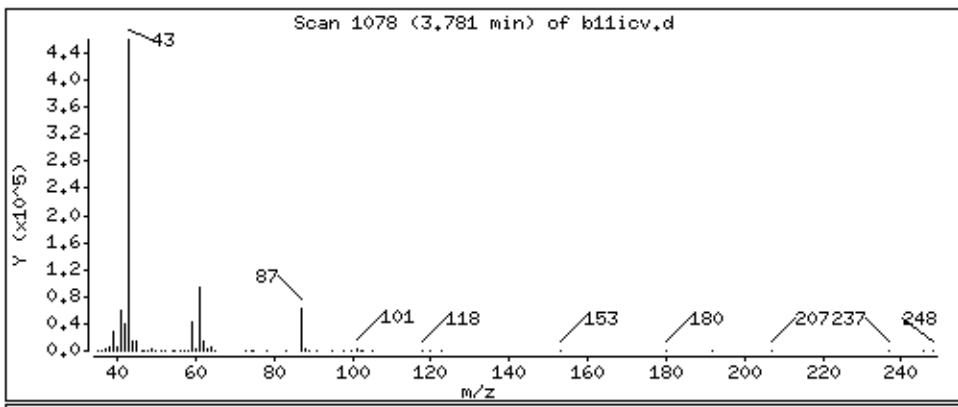
Operator: dae

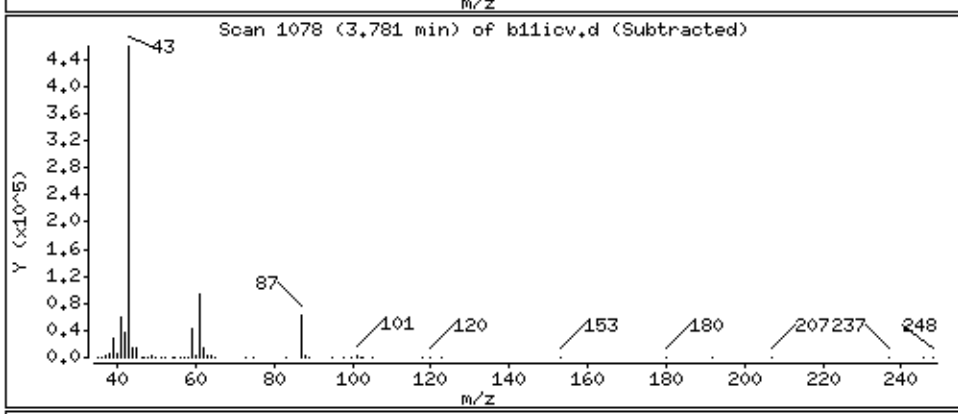
Column phase: DB-624

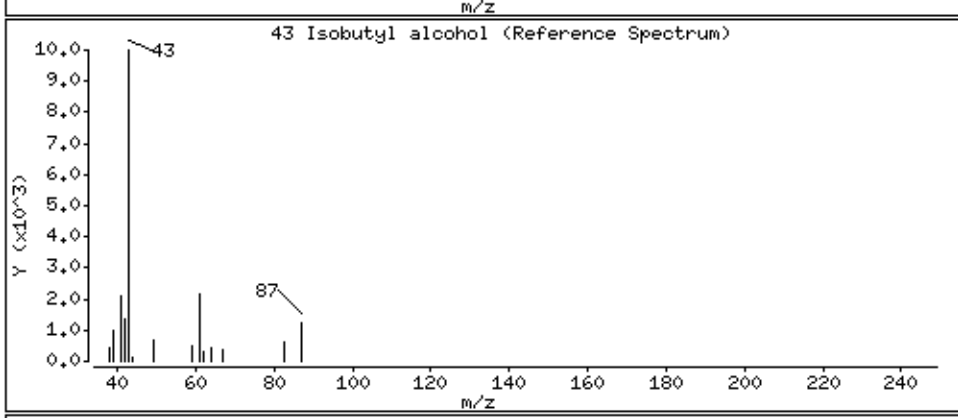
Column diameter: 0.18

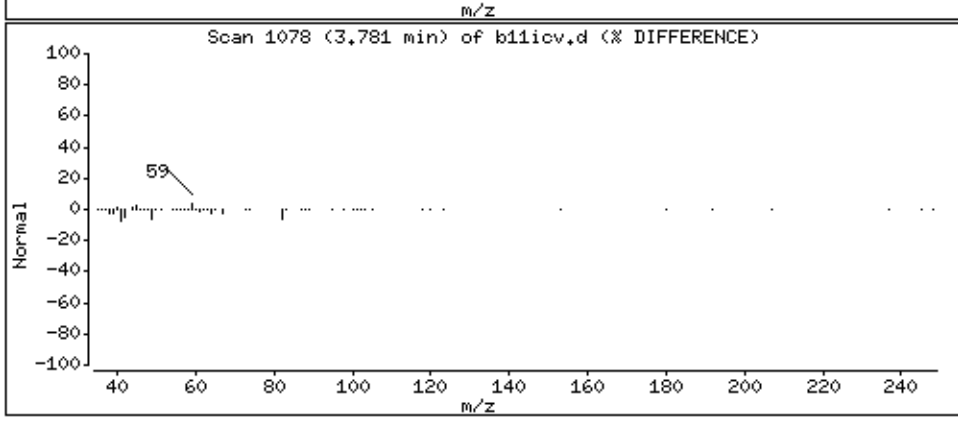
43 Isobutyl alcohol

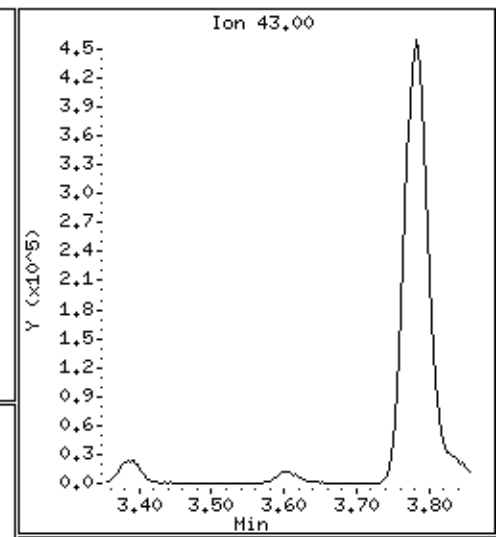
Concentration: 61.1 ppb

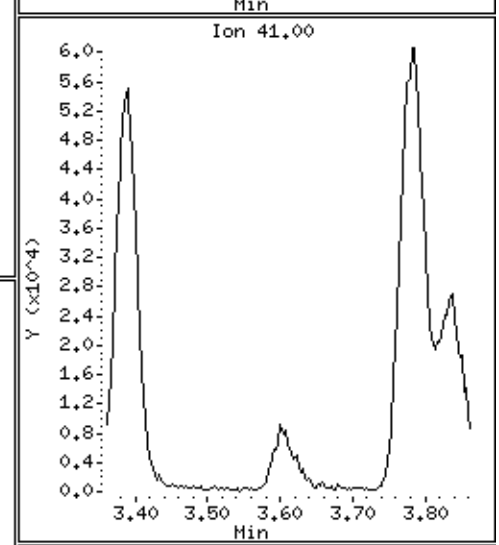


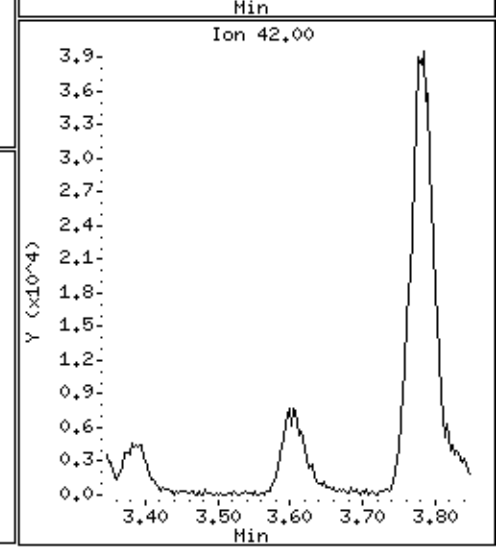












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

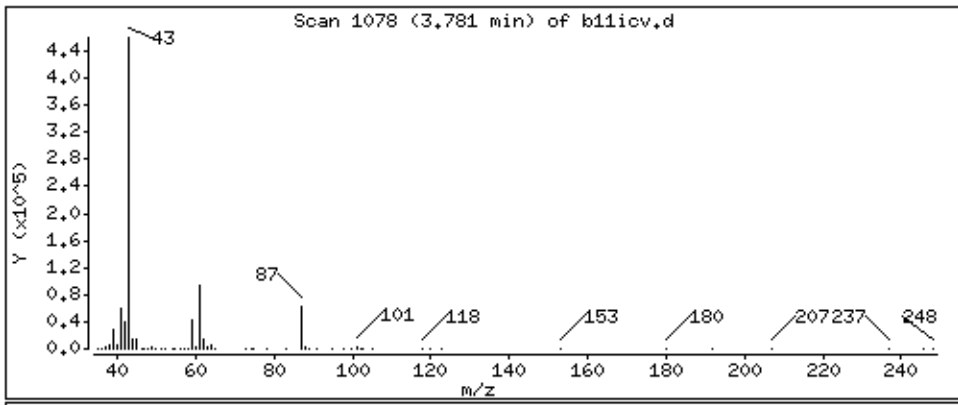
Operator: dae

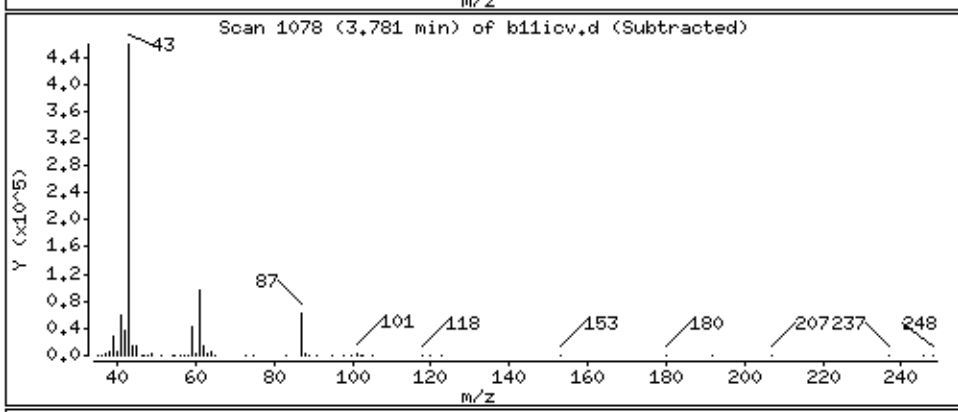
Column phase: DB-624

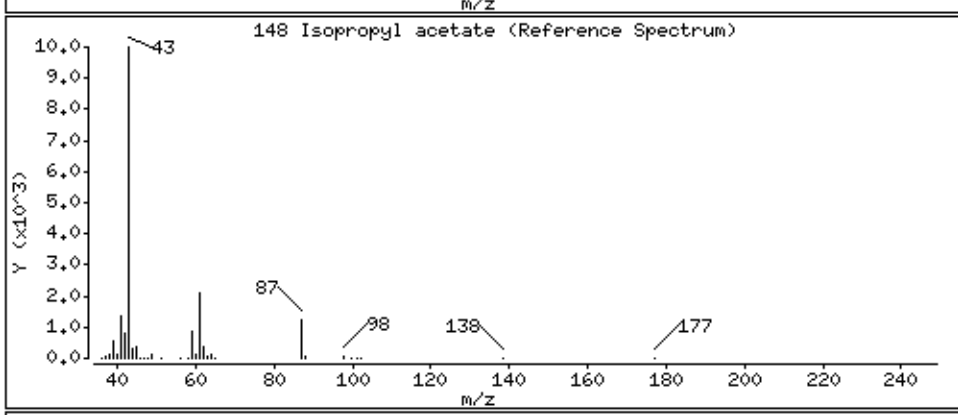
Column diameter: 0.18

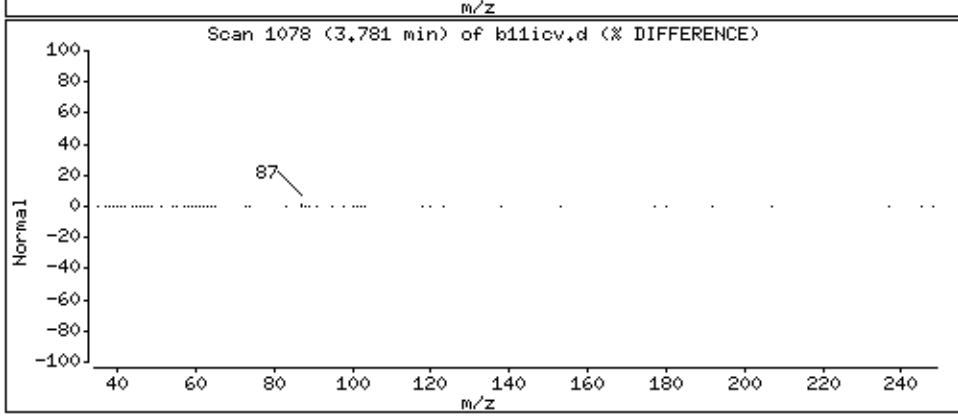
148 Isopropyl acetate

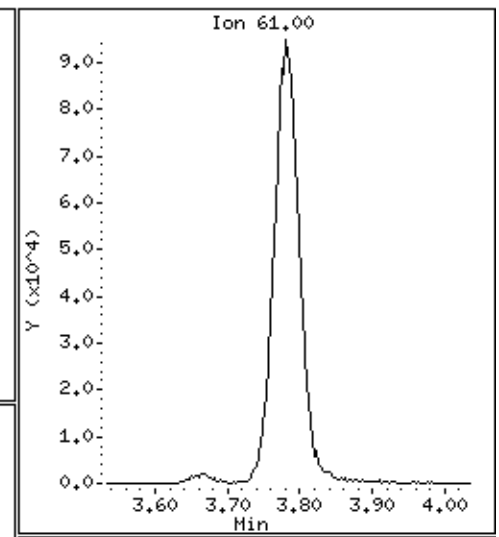
Concentration: 249 ppb

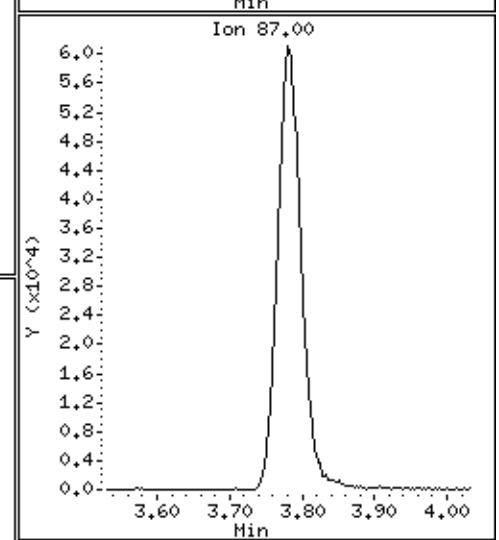


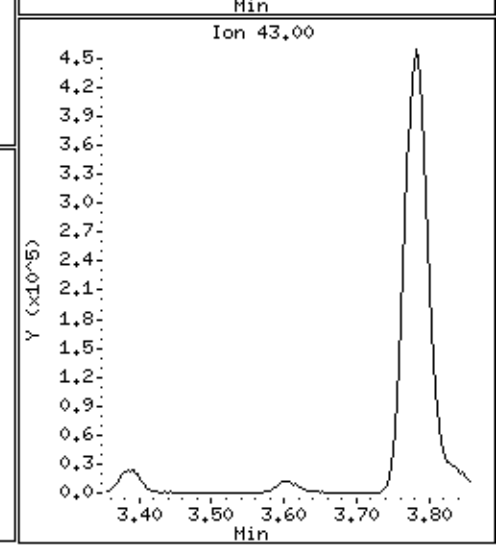












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

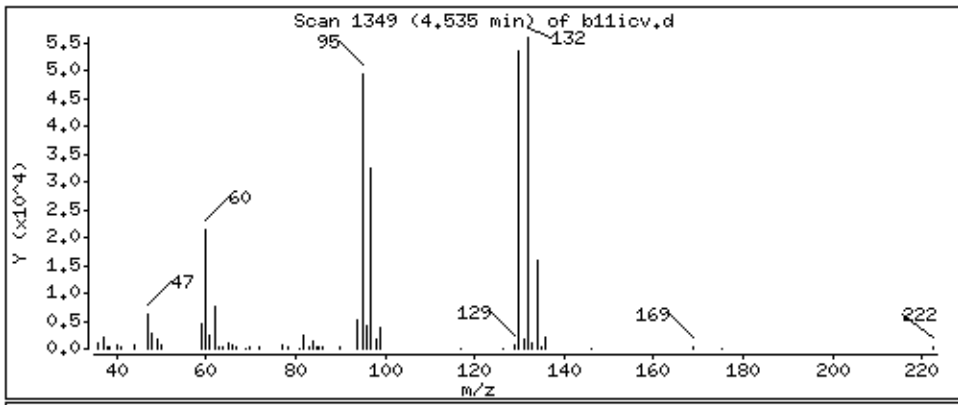
Operator: dae

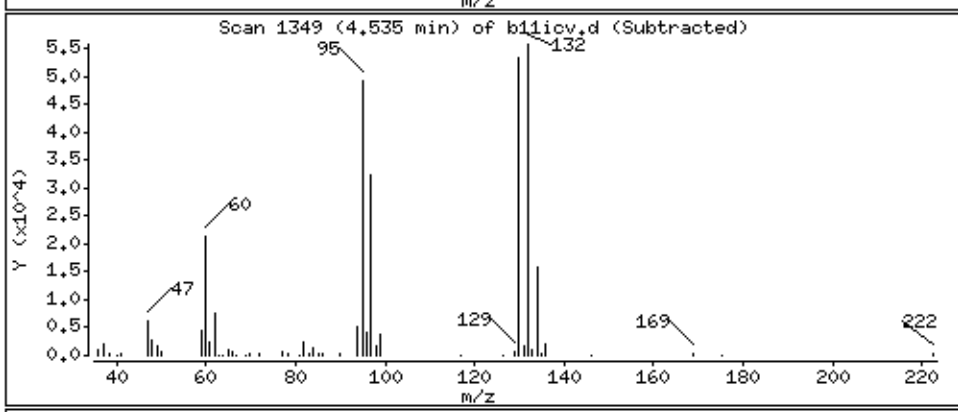
Column phase: DB-624

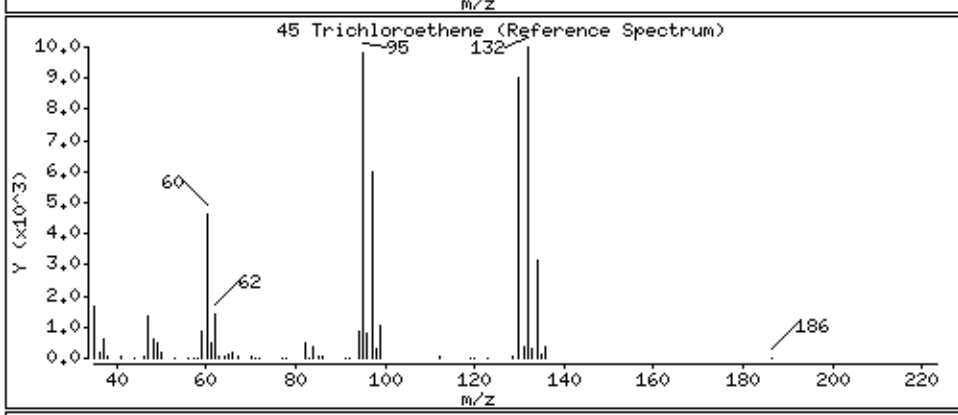
Column diameter: 0.18

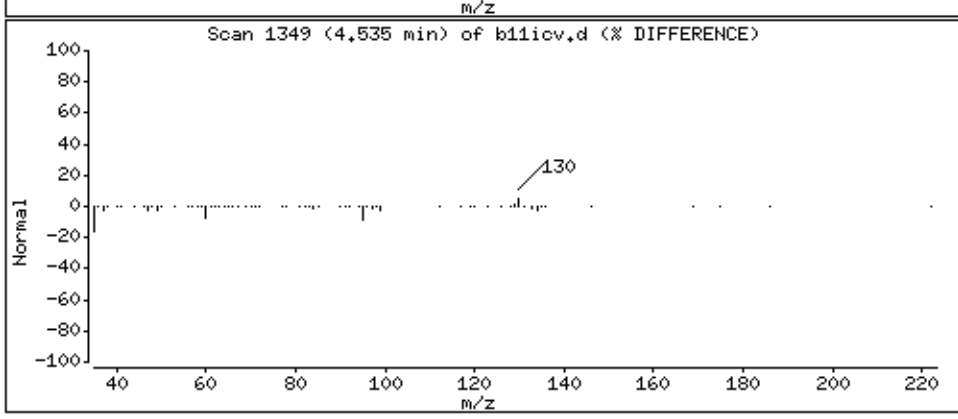
45 Trichloroethene

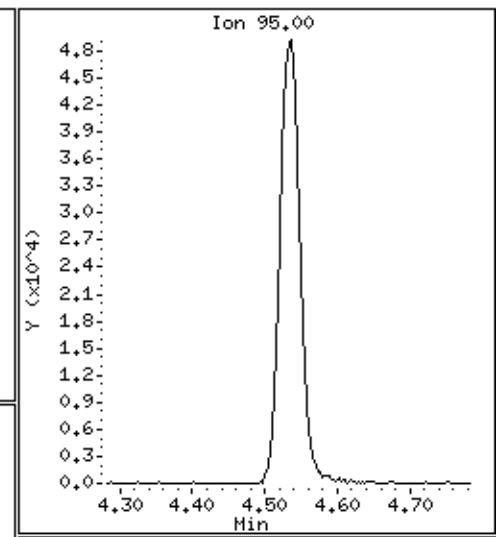
Concentration: 50.6 ppb

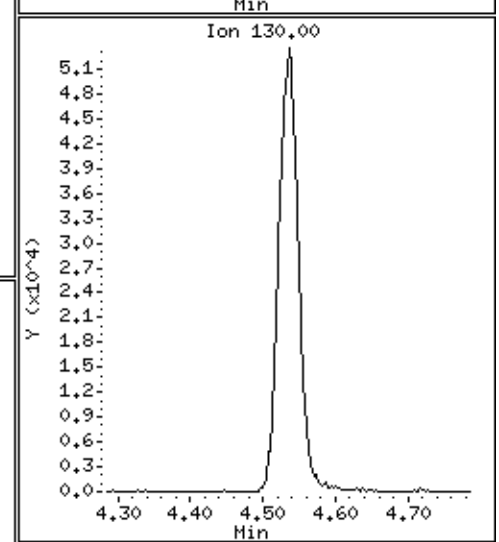


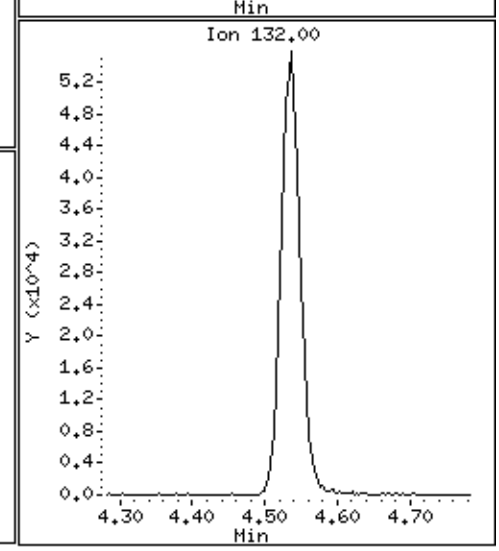












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

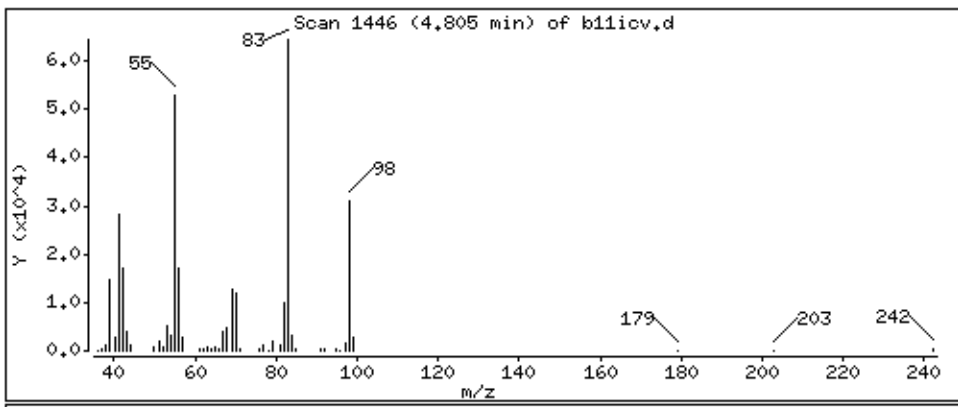
Operator: dae

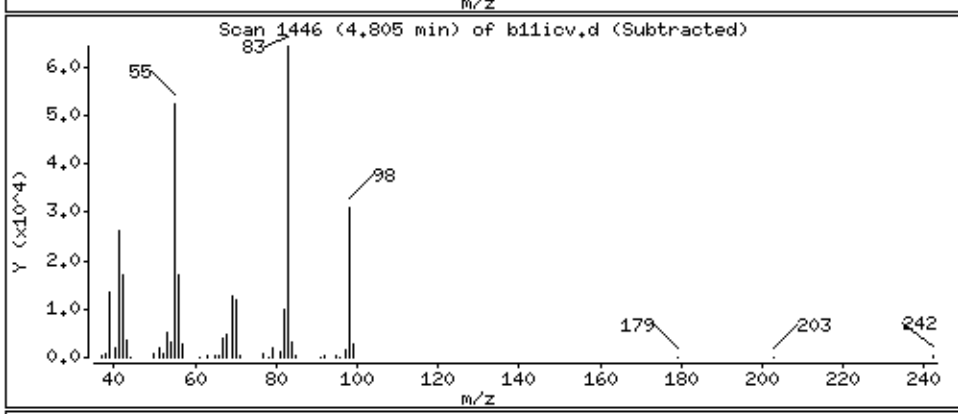
Column phase: DB-624

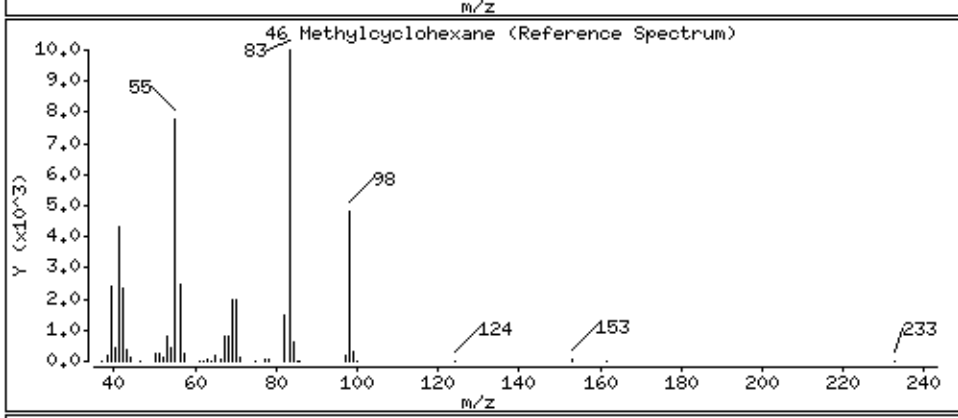
Column diameter: 0.18

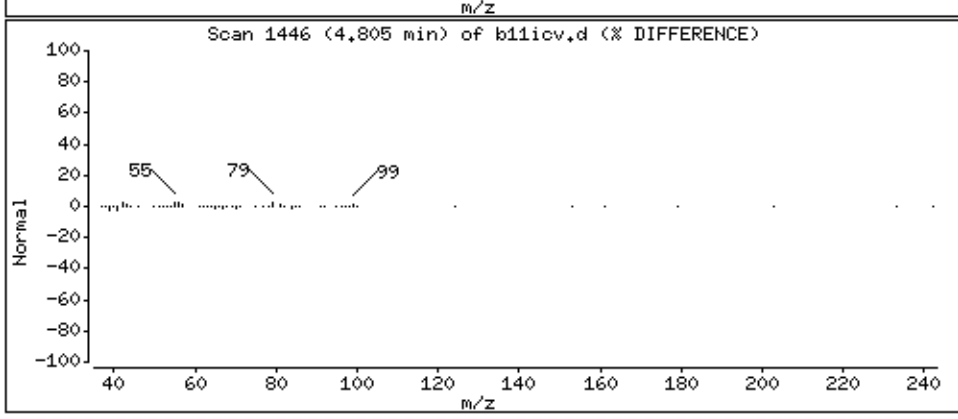
46 Methylcyclohexane

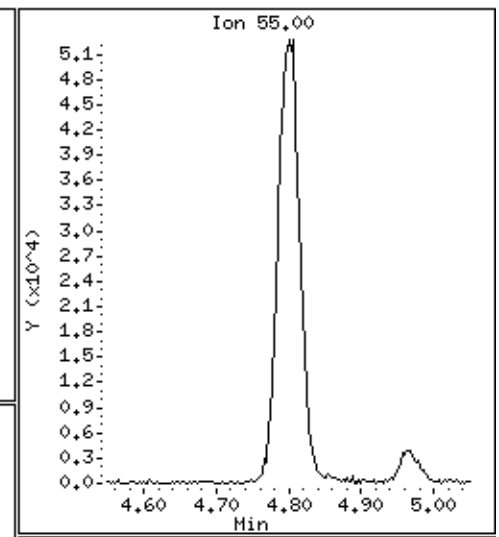
Concentration: 52.6 ppb

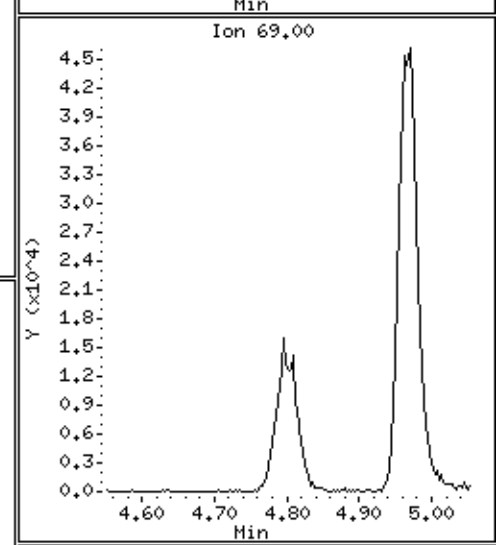


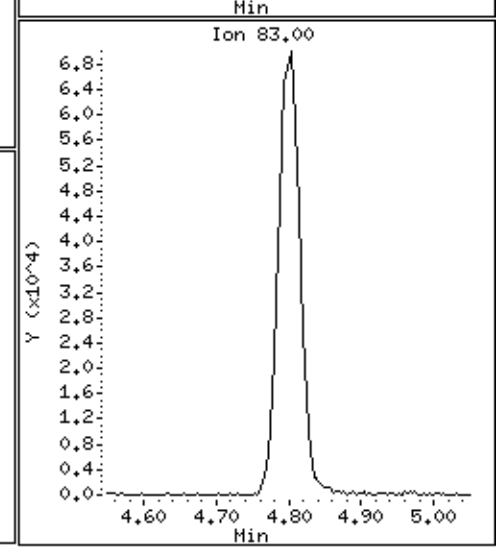












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

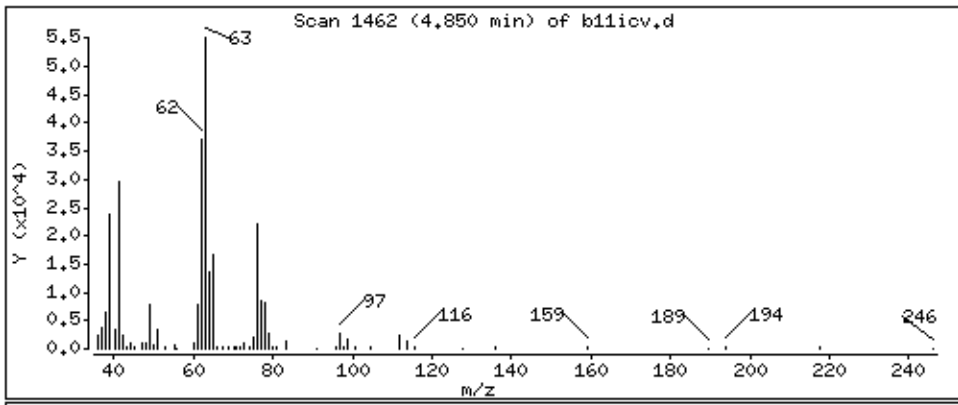
Operator: dae

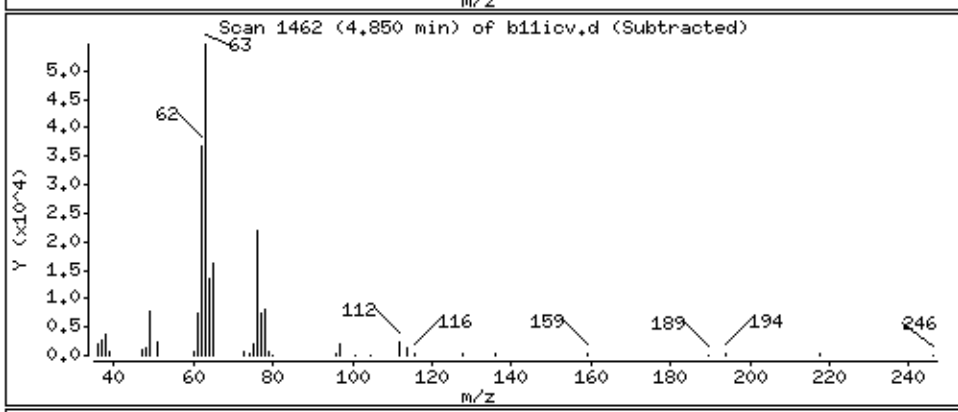
Column phase: DB-624

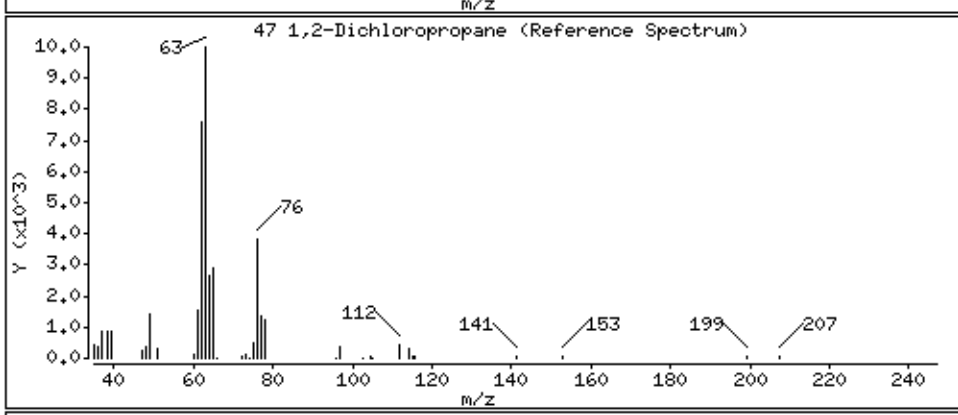
Column diameter: 0.18

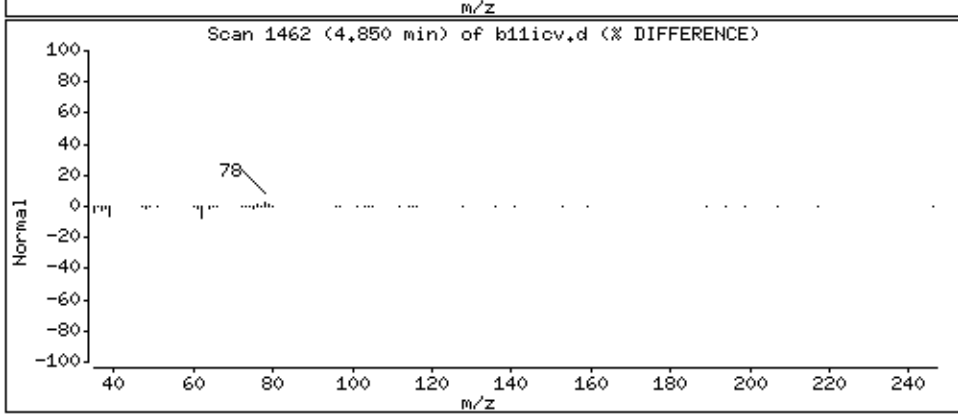
47 1,2-Dichloropropane

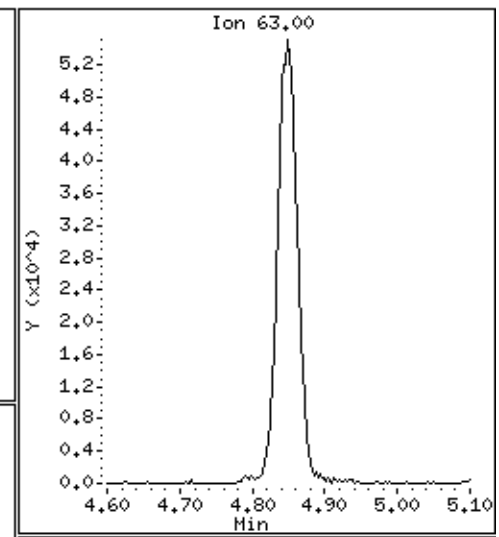
Concentration: 52.6 ppb

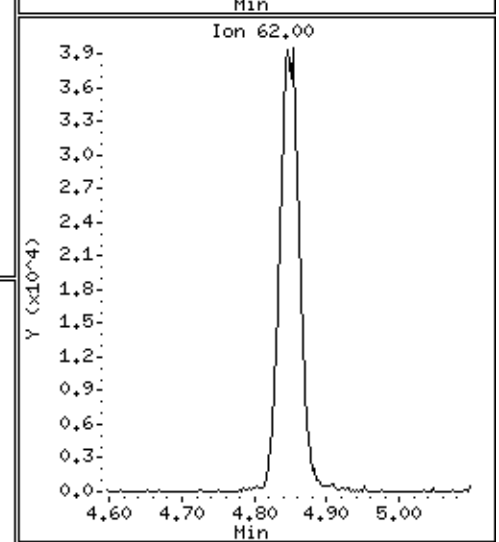


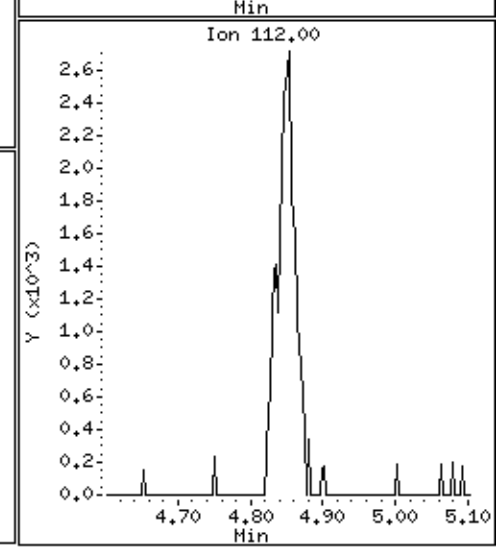












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

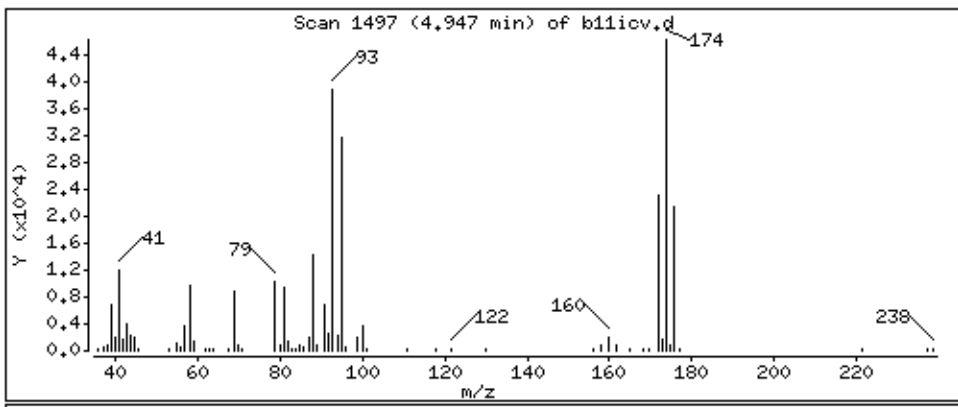
Operator: dae

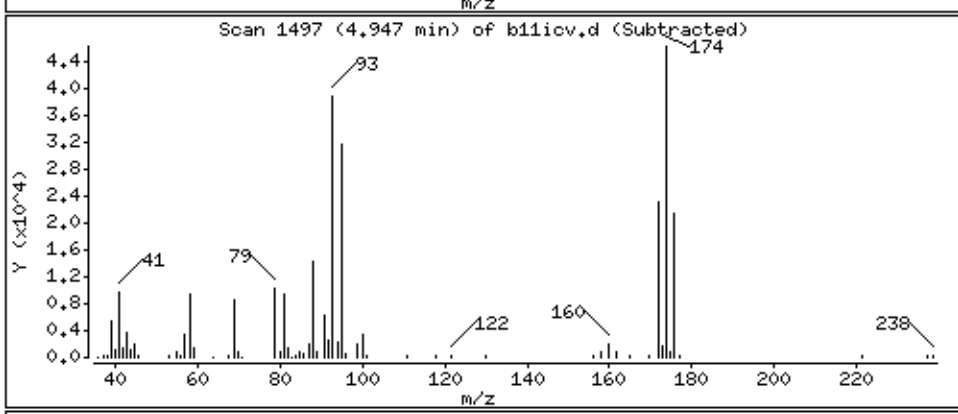
Column phase: DB-624

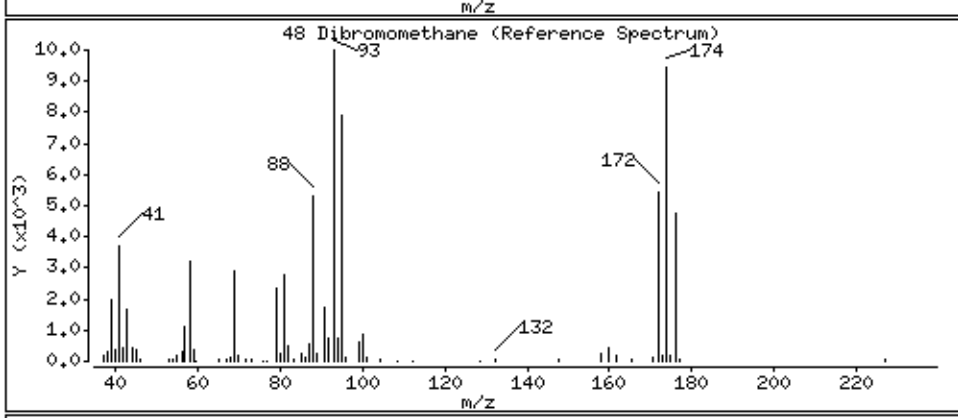
Column diameter: 0.18

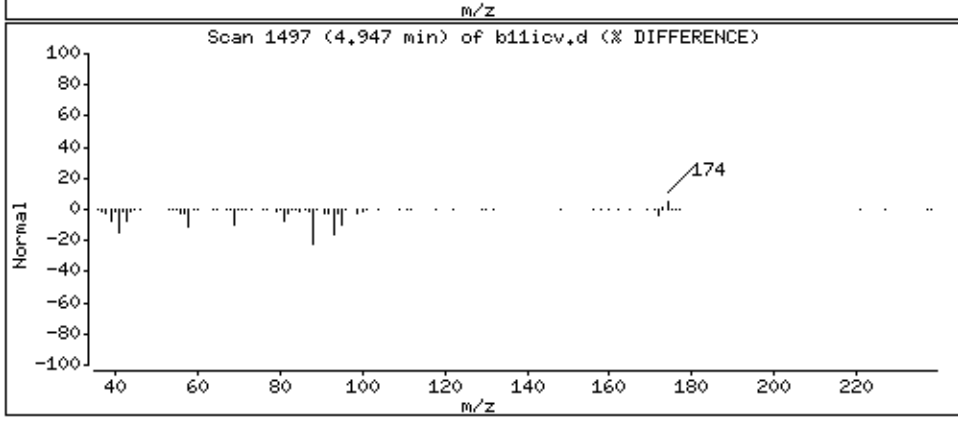
48 Dibromomethane

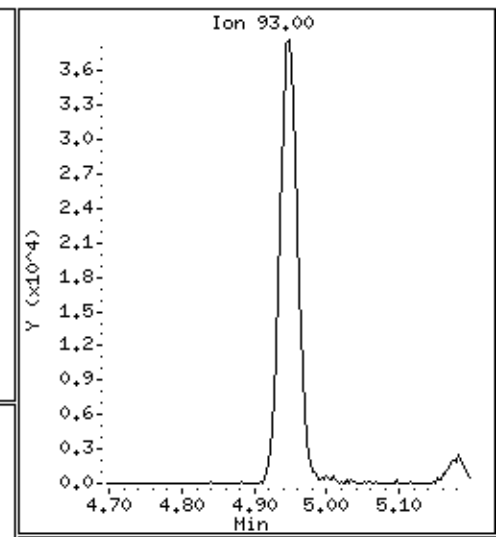
Concentration: 55.1 ppb

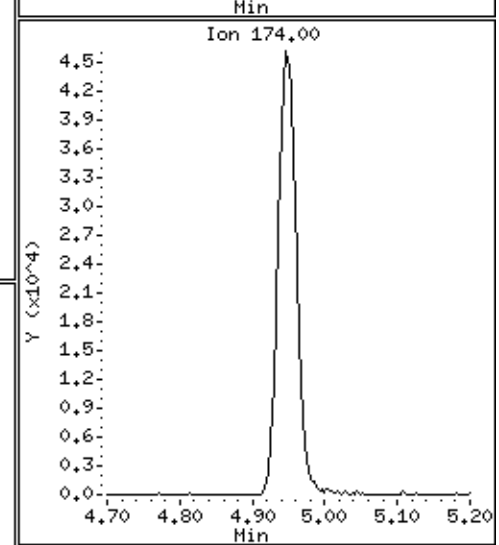


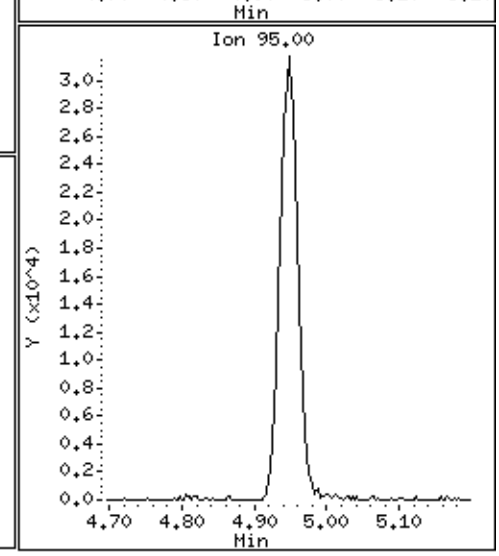












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

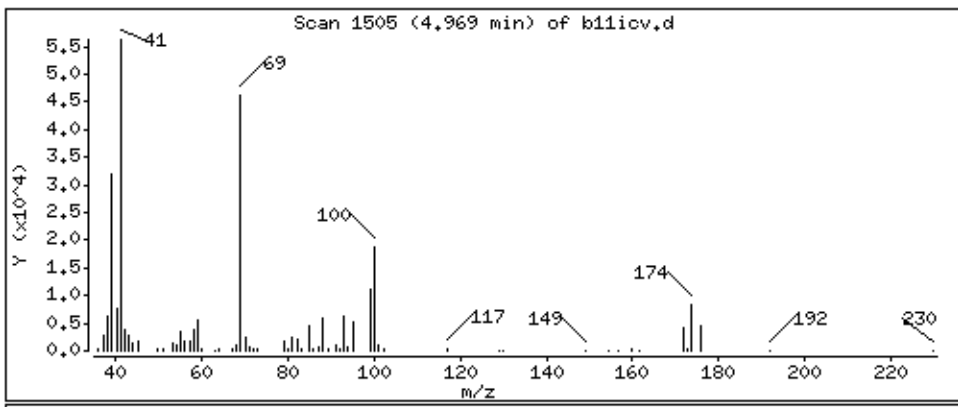
Operator: dae

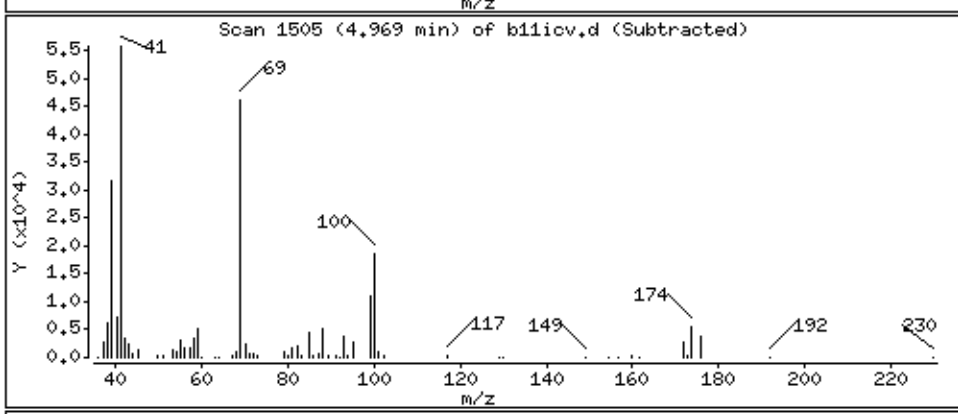
Column phase: DB-624

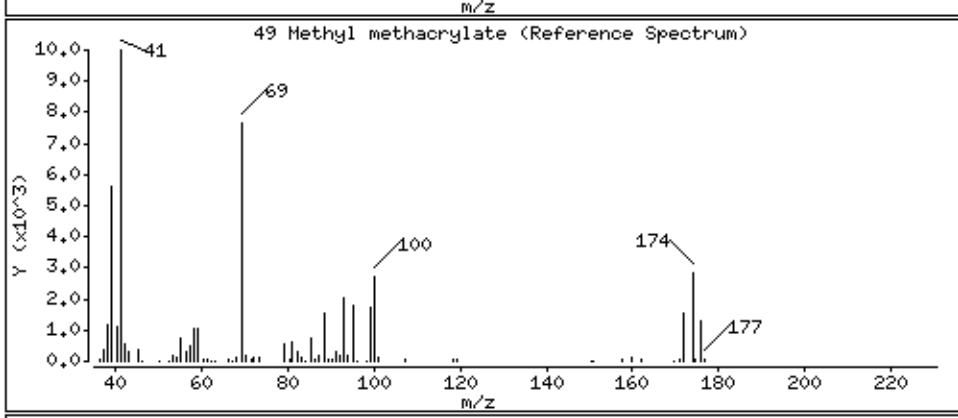
Column diameter: 0.18

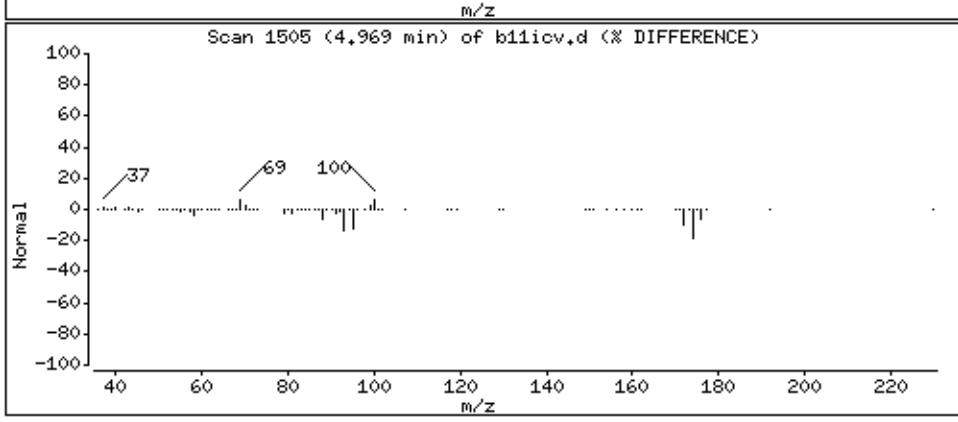
49 Methyl methacrylate

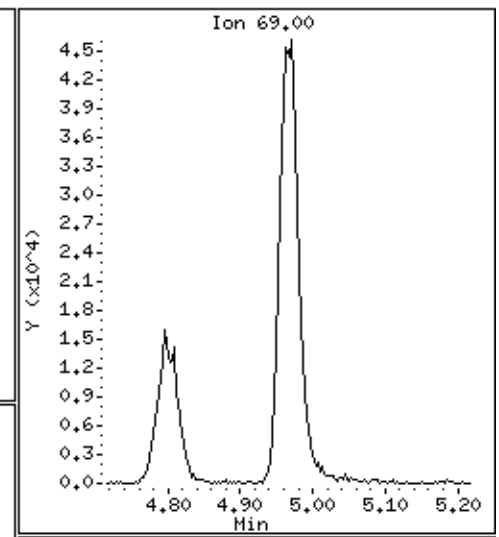
Concentration: 49.8 ppb

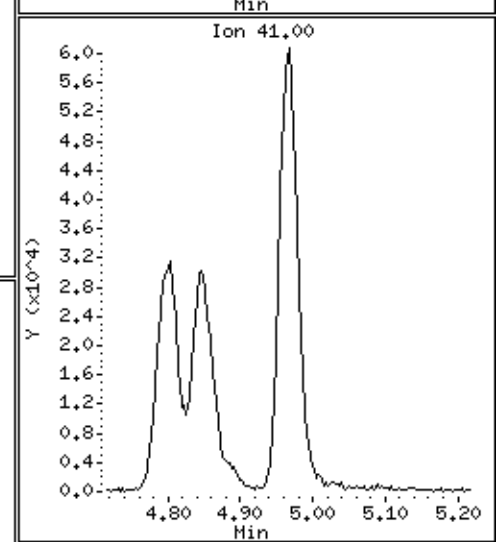


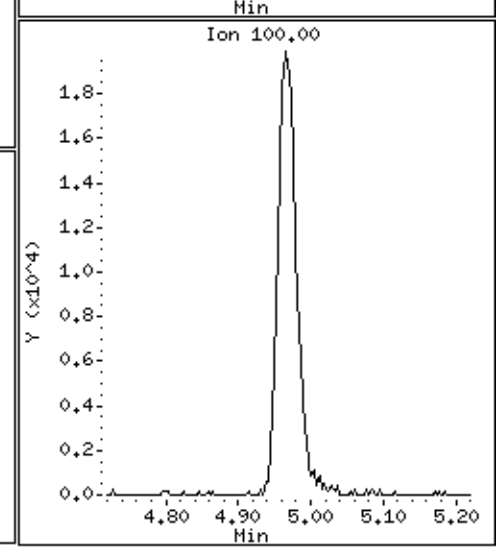












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

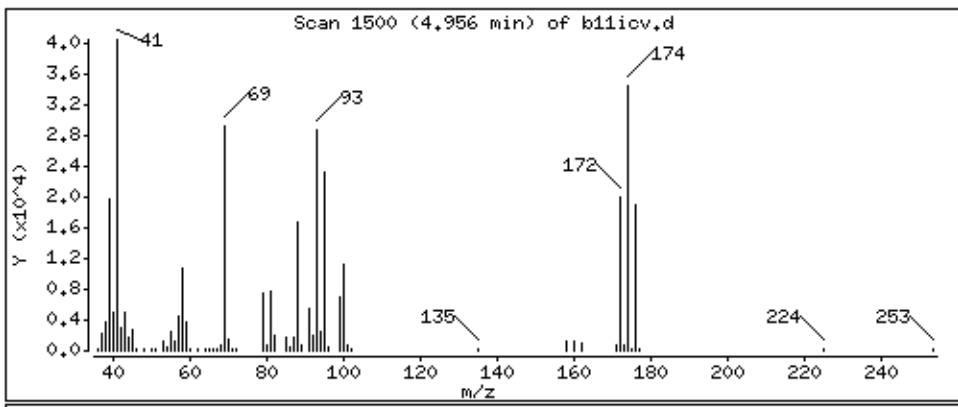
Operator: dae

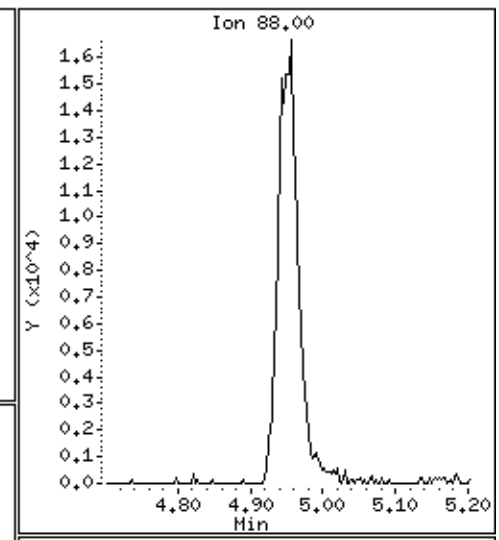
Column phase: DB-624

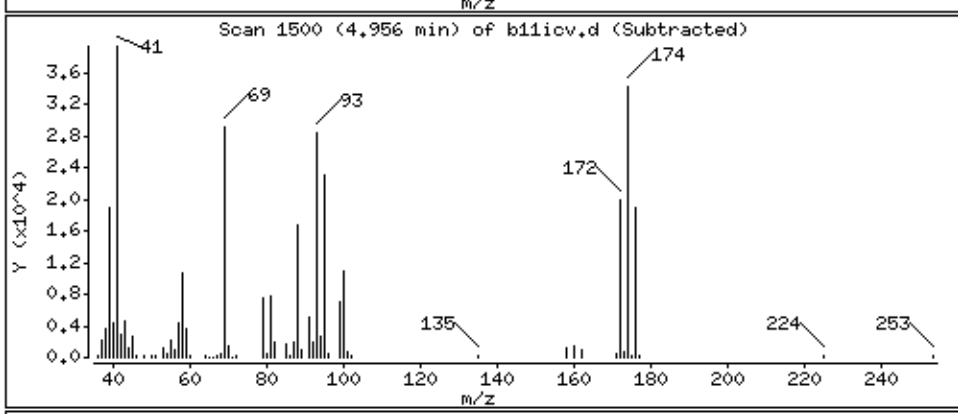
Column diameter: 0.18

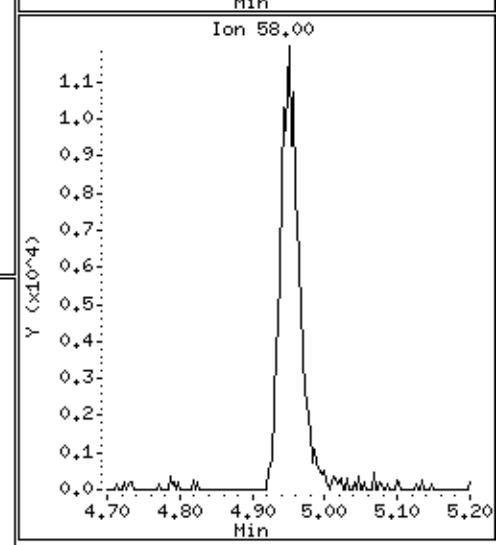
50 1,4-Dioxane

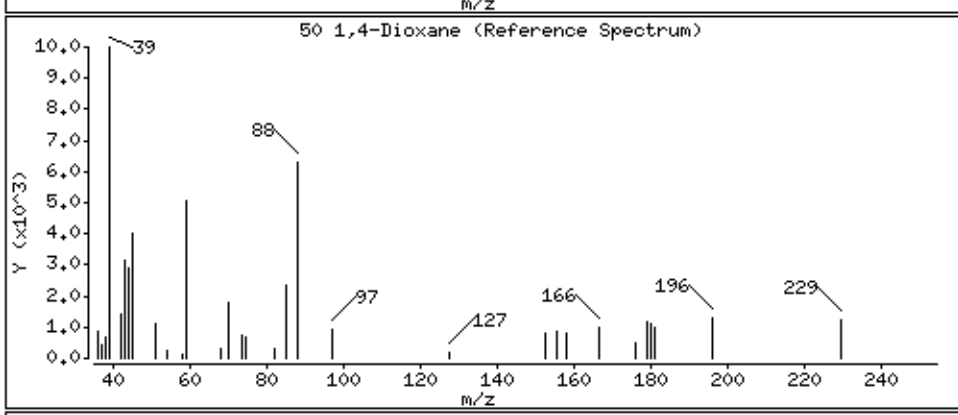
Concentration: 1130 ppb

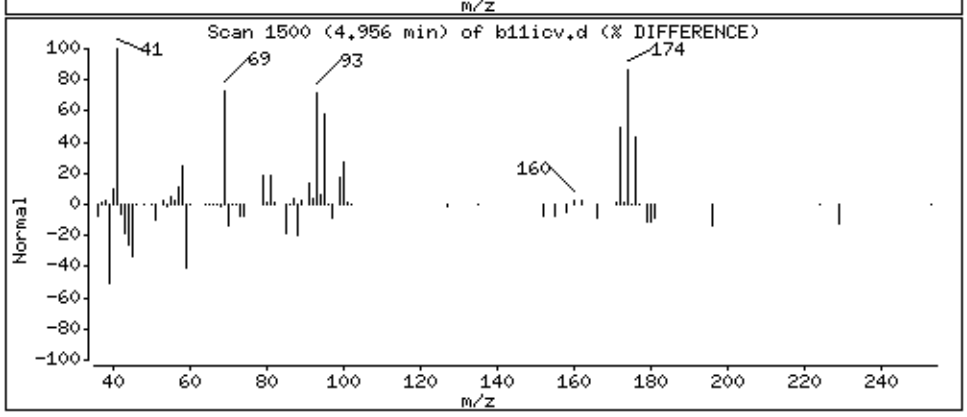












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

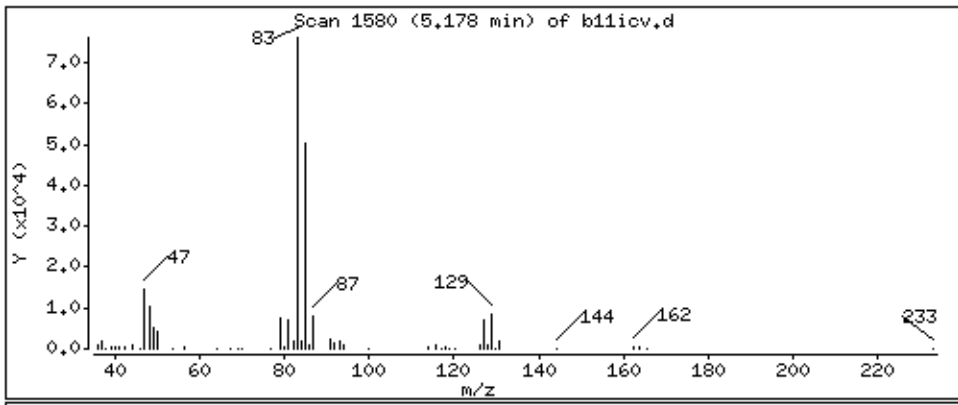
Operator: dae

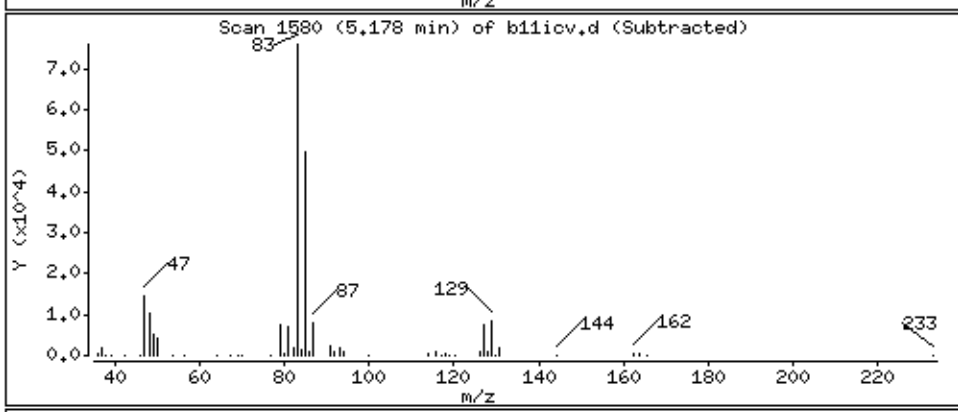
Column phase: DB-624

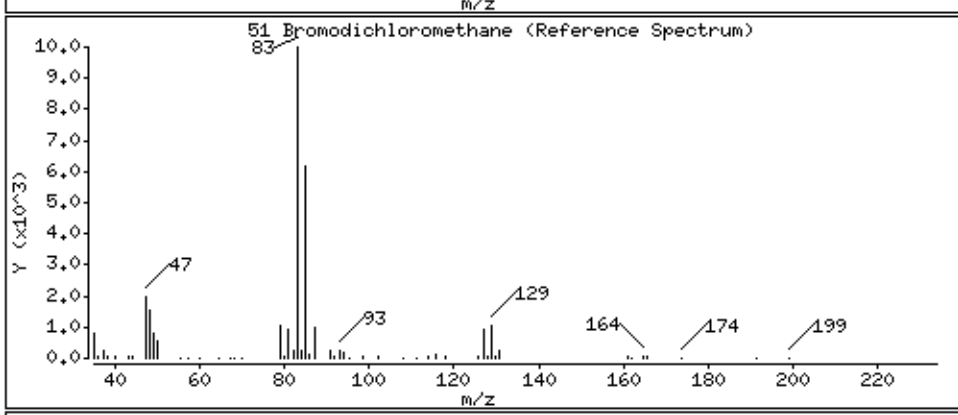
Column diameter: 0.18

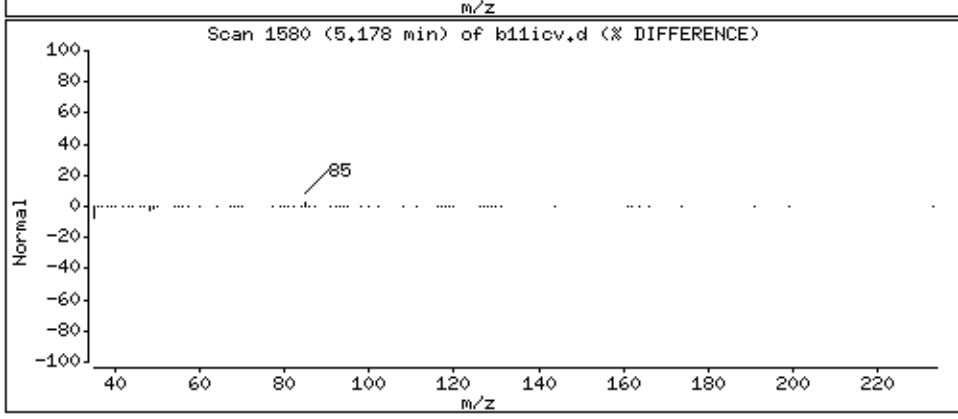
51 Bromodichloromethane

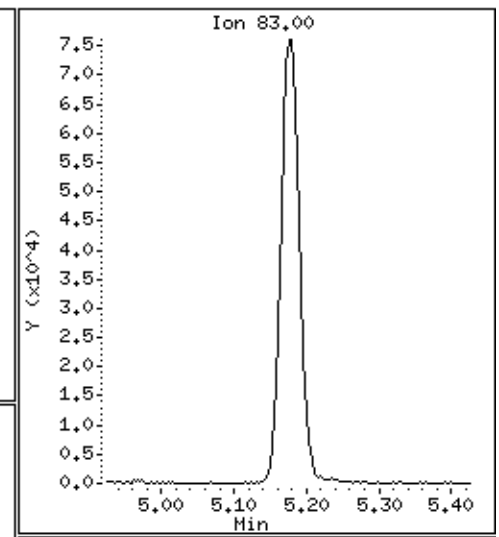
Concentration: 49.5 ppb

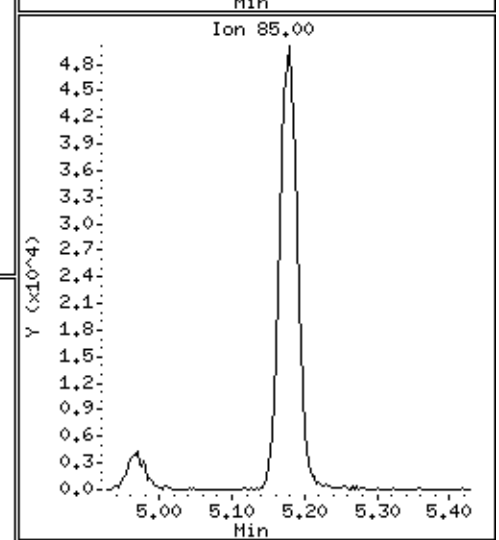


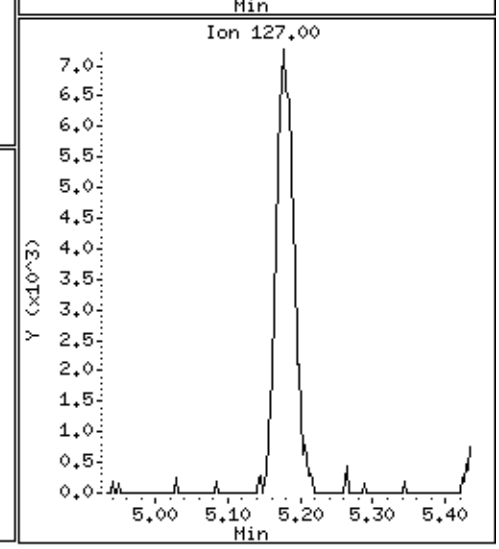












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

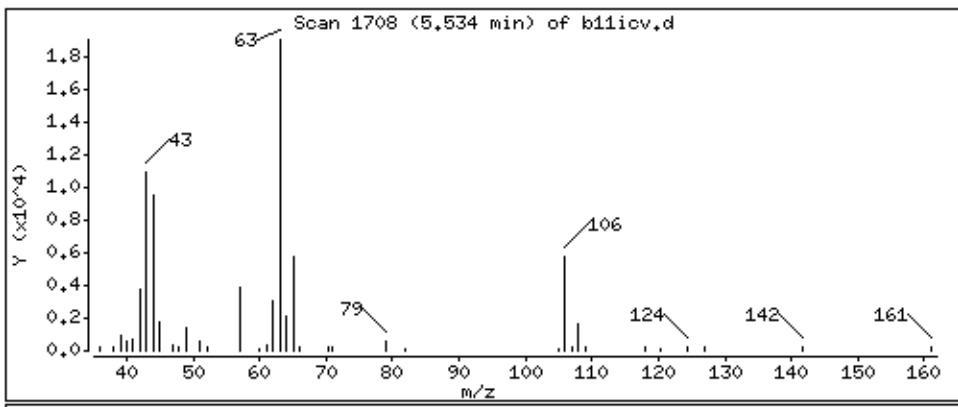
Operator: dae

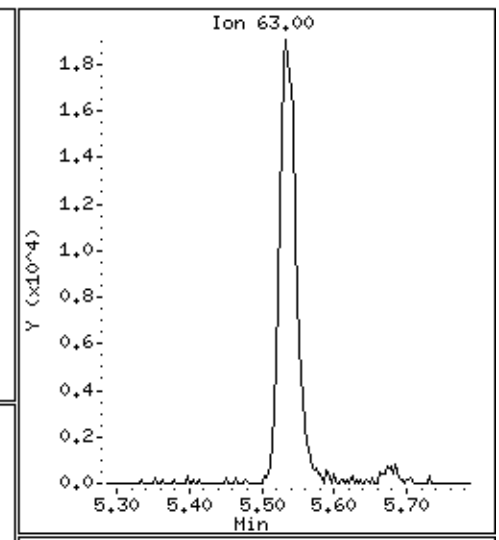
Column phase: DB-624

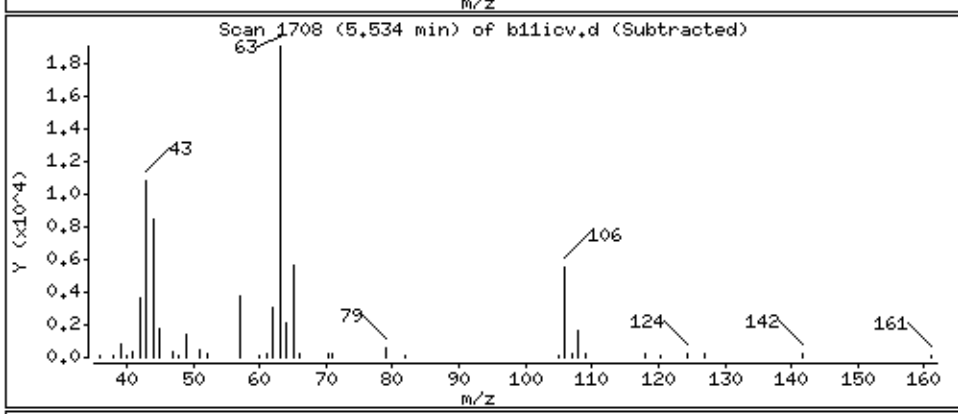
Column diameter: 0.18

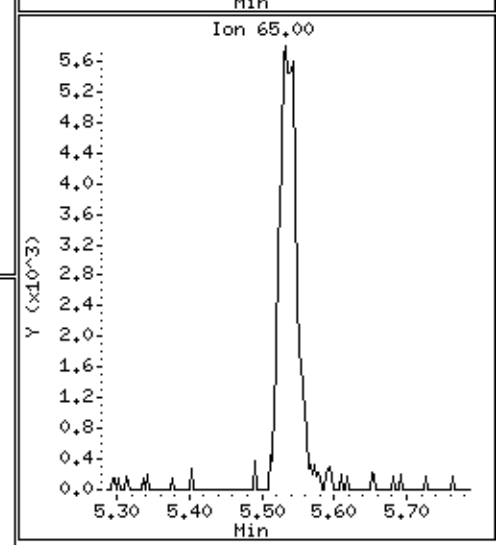
52 2-Chloroethyl vinyl ether

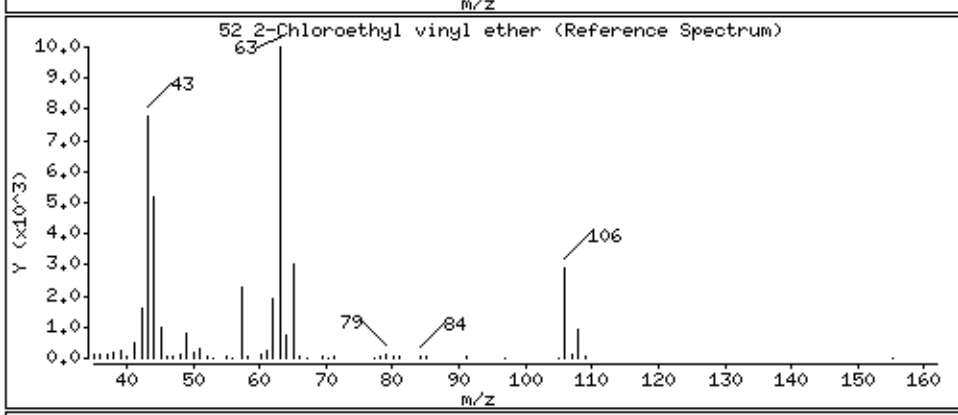
Concentration: 39.2 ppb

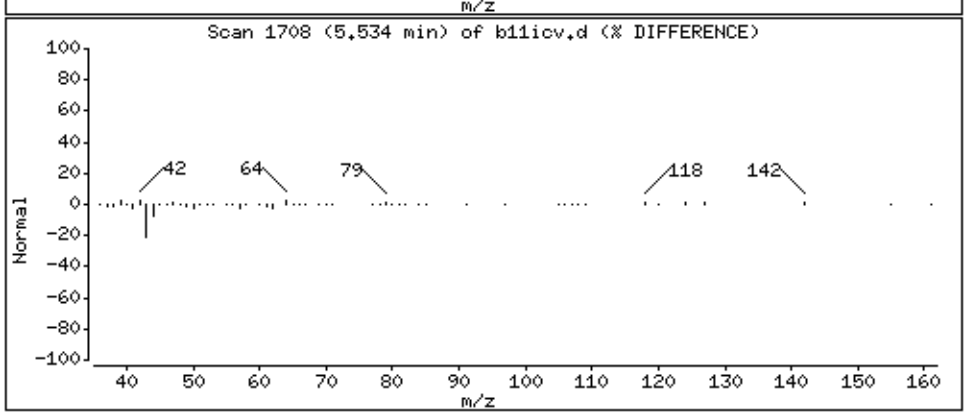












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

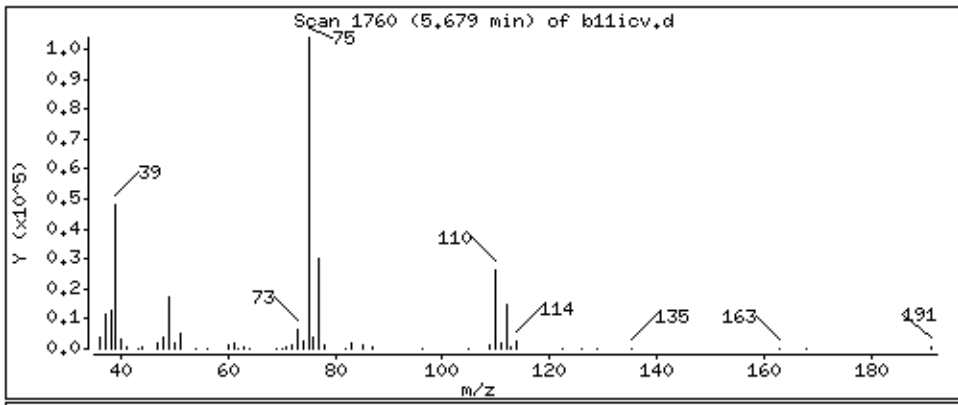
Operator: dae

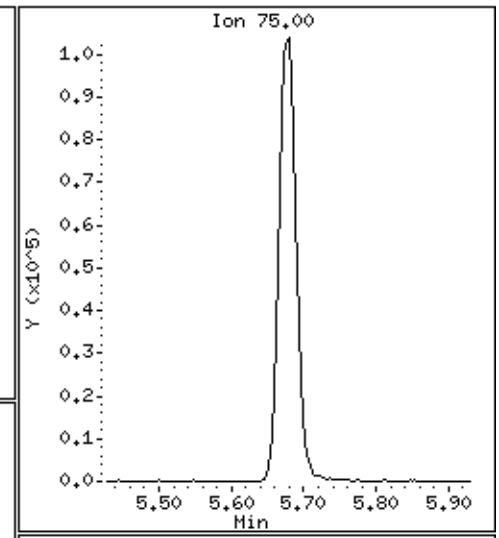
Column phase: DB-624

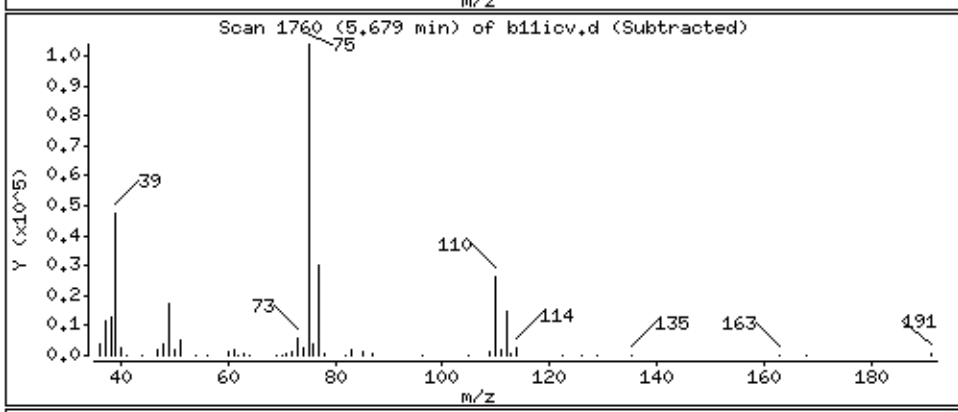
Column diameter: 0.18

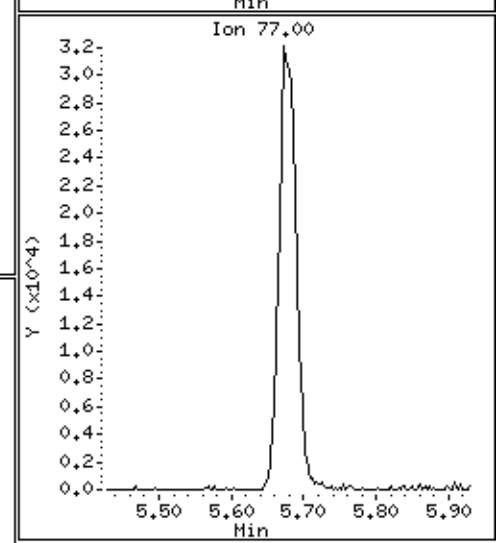
53 cis-1,3-Dichloropropene

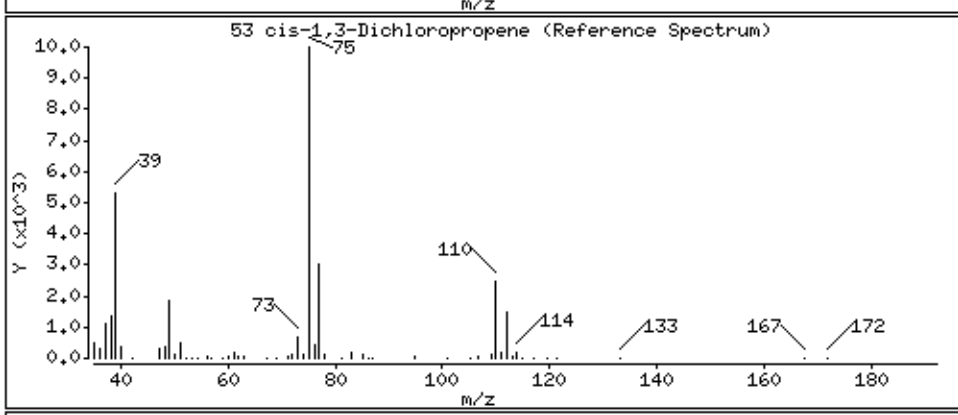
Concentration: 56.7 ppb

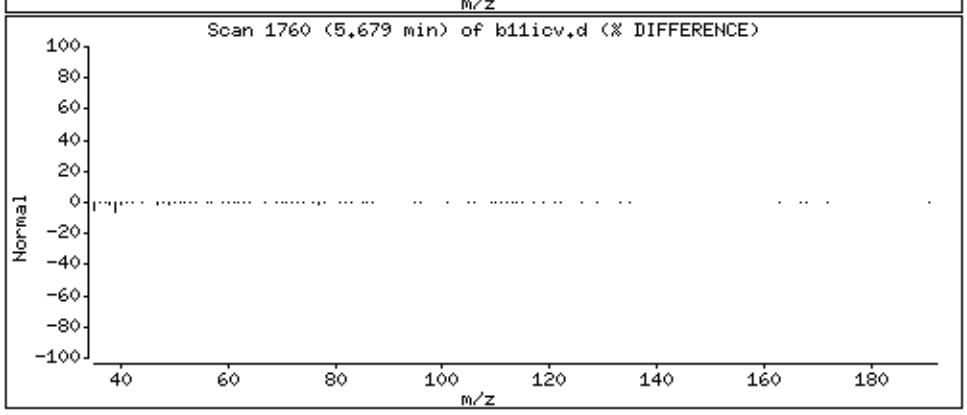












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

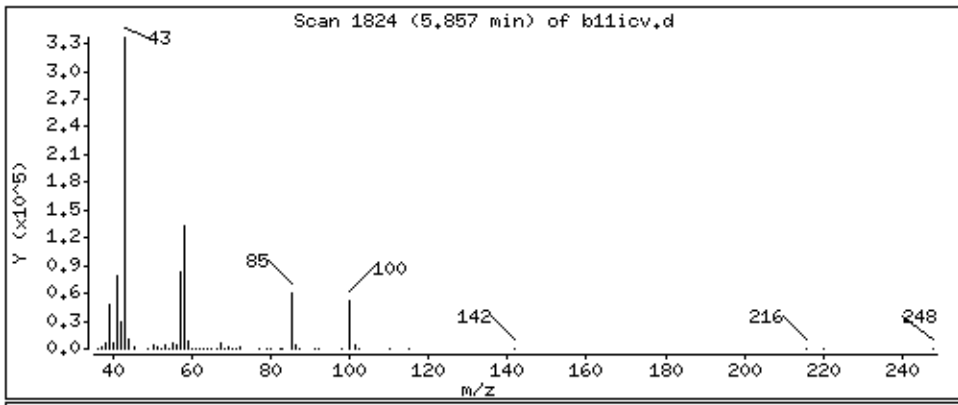
Operator: dae

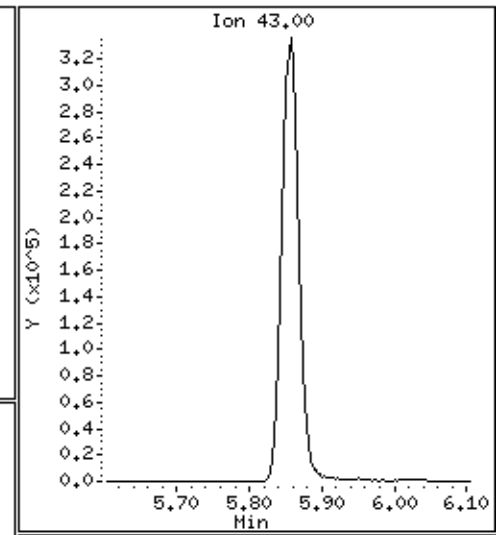
Column phase: DB-624

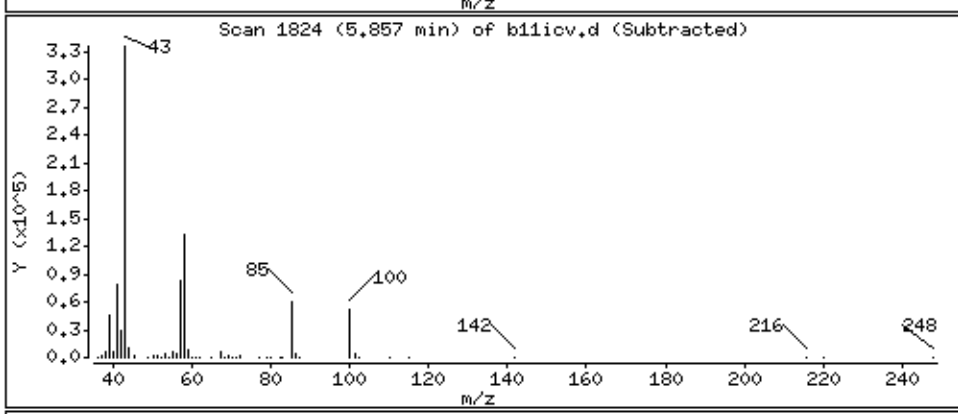
Column diameter: 0.18

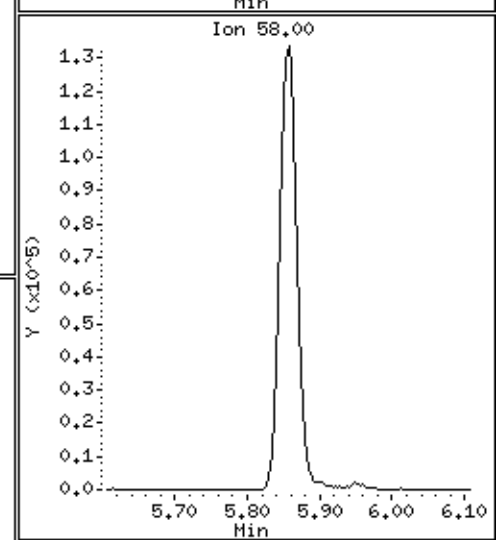
54 4-Methyl-2-Pentanone

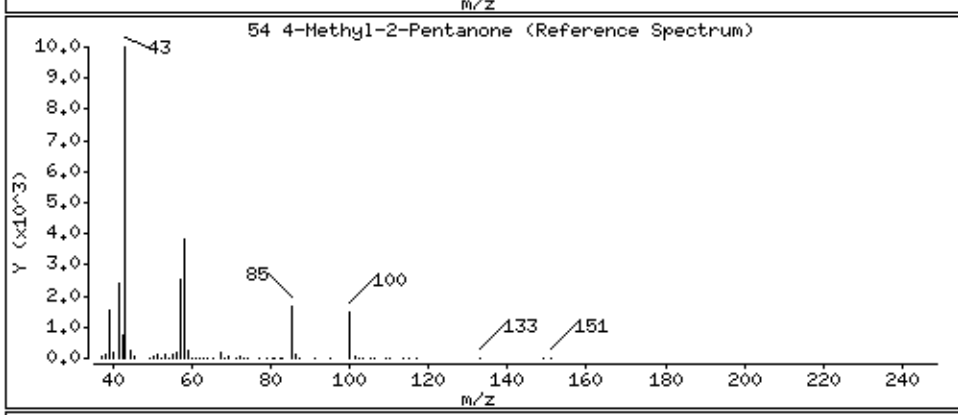
Concentration: 258 ppb

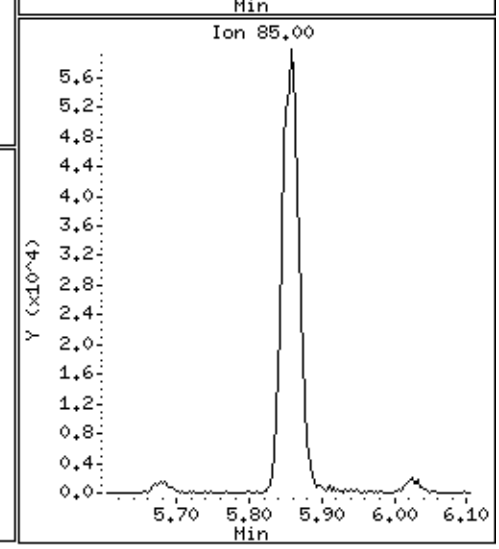


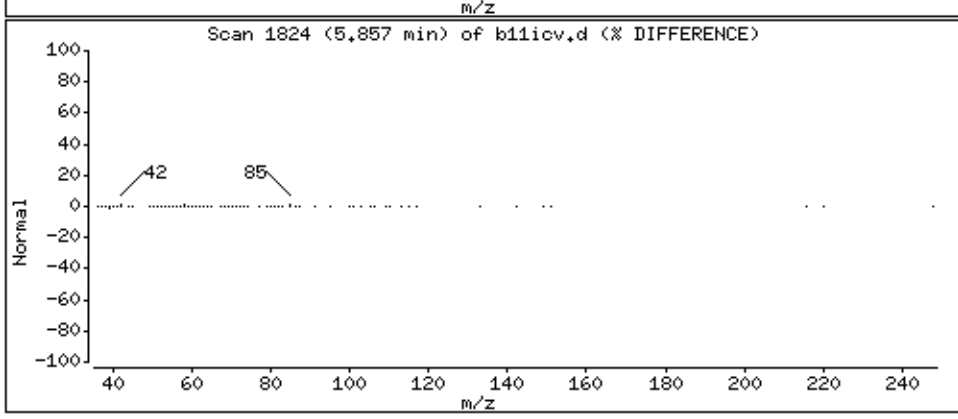












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

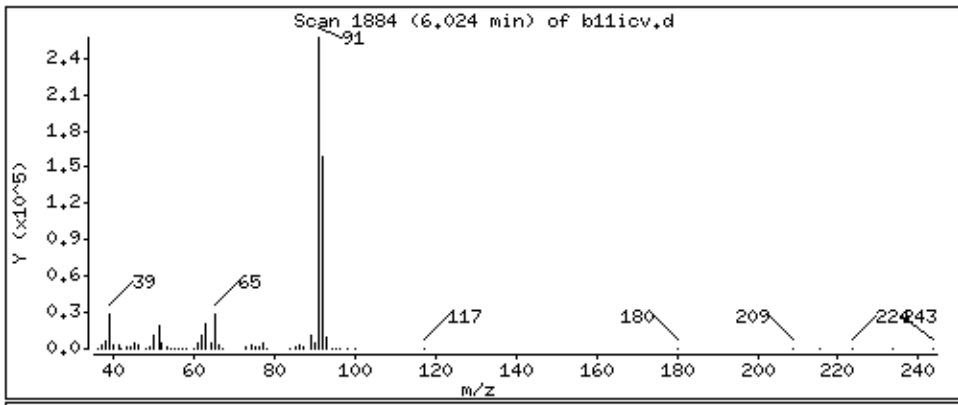
Operator: dae

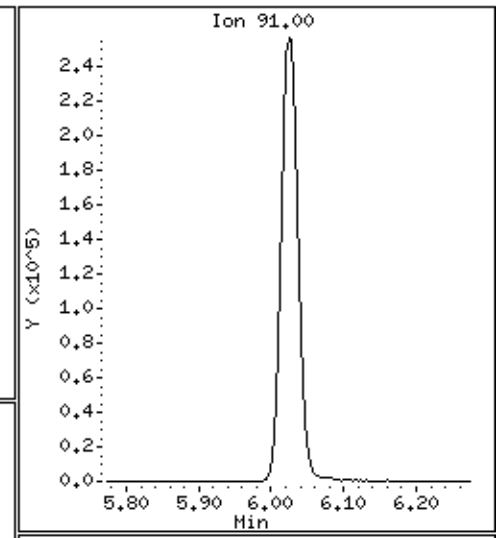
Column phase: DB-624

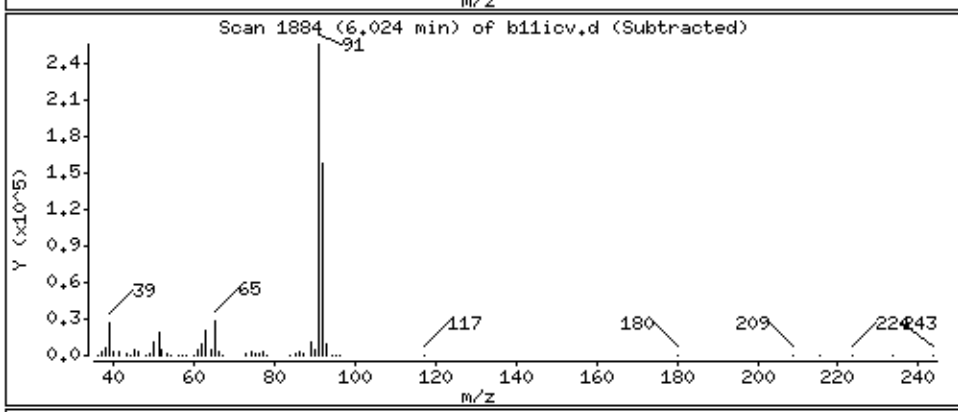
Column diameter: 0.18

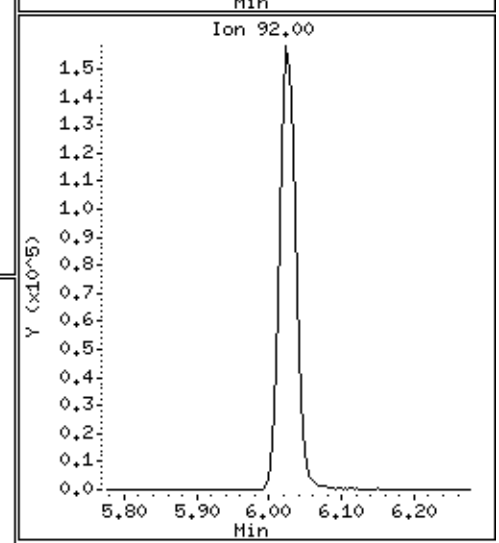
56 Toluene

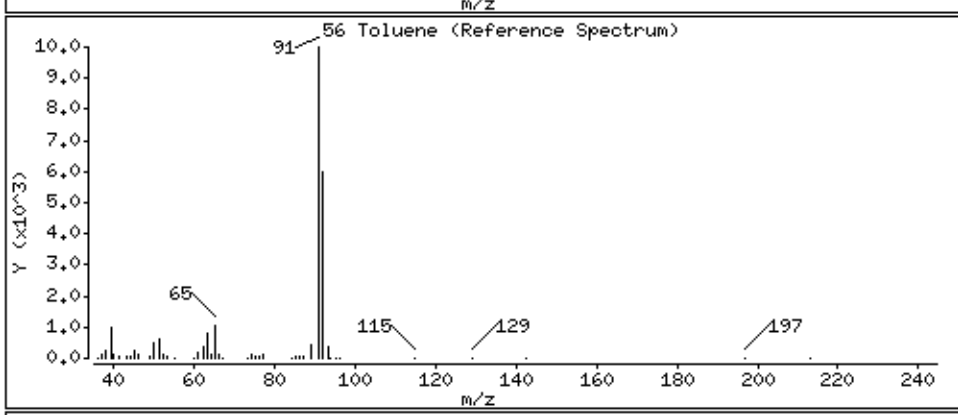
Concentration: 48.7 ppb

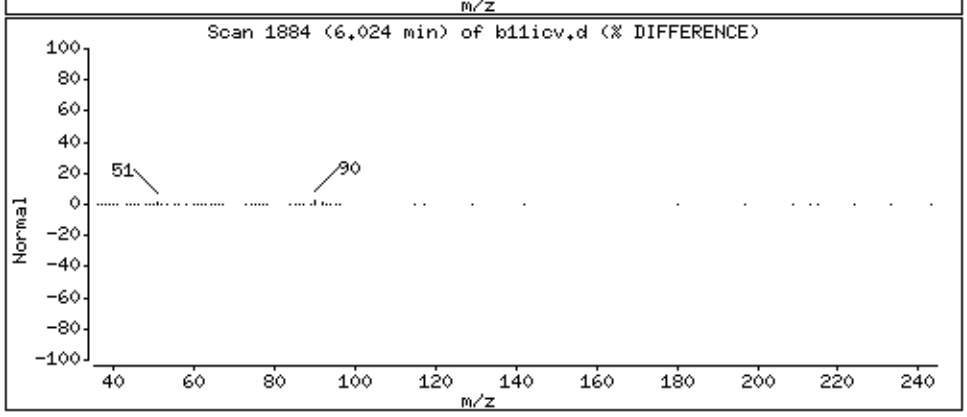












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

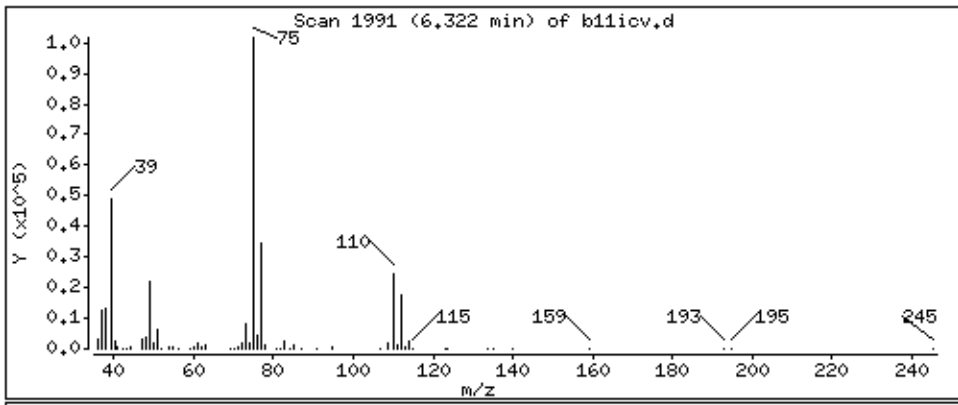
Operator: dae

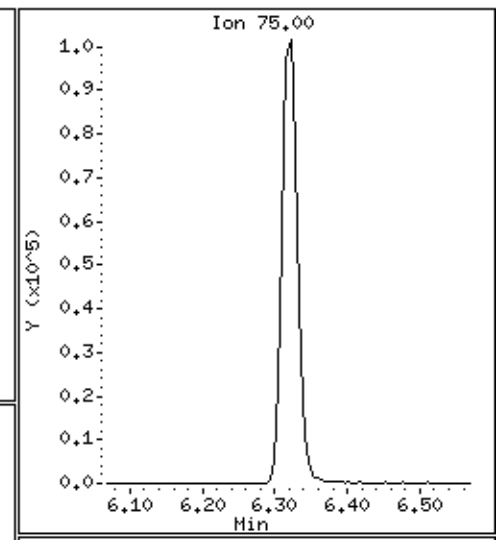
Column phase: DB-624

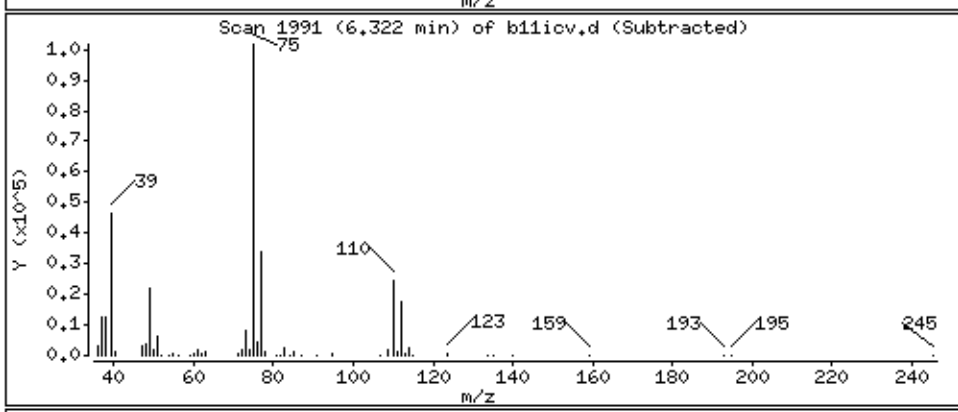
Column diameter: 0.18

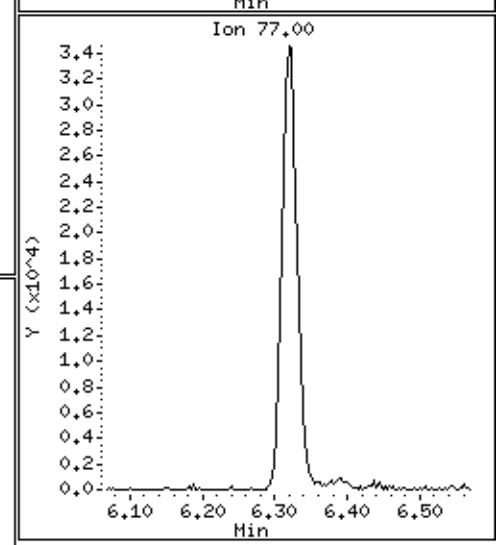
57 trans-1,3-Dichloropropene

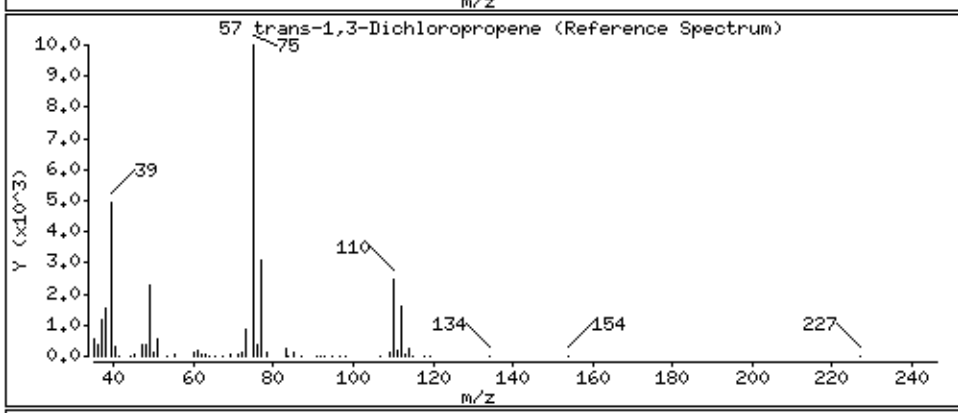
Concentration: 55.9 ppb

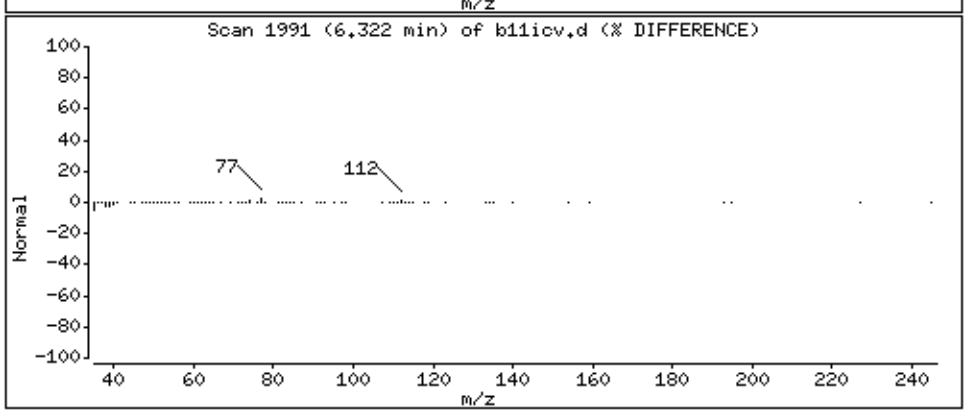












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

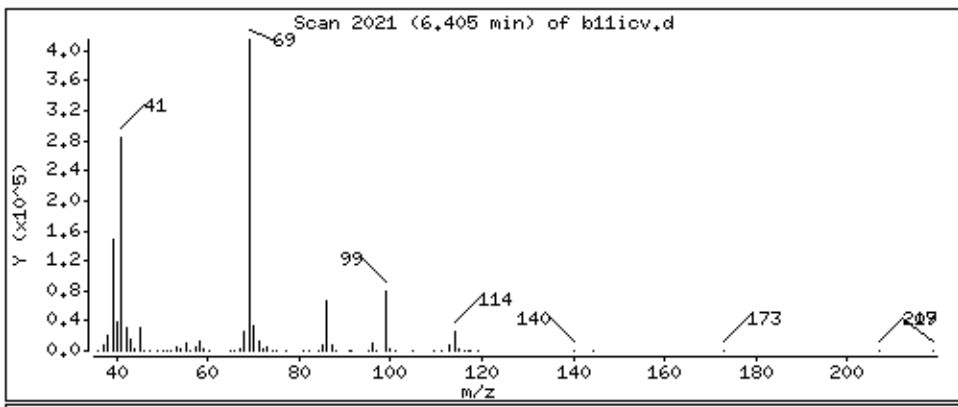
Operator: dae

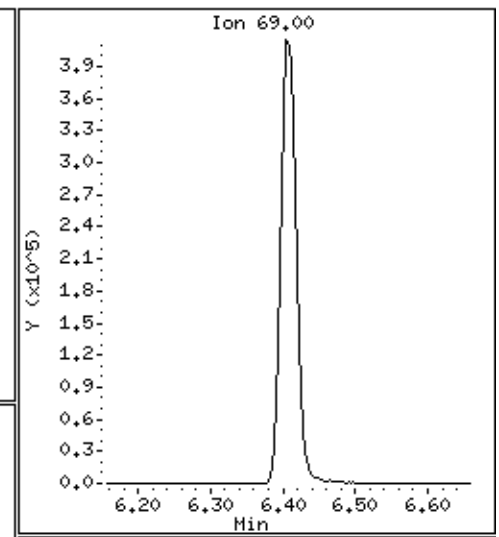
Column phase: DB-624

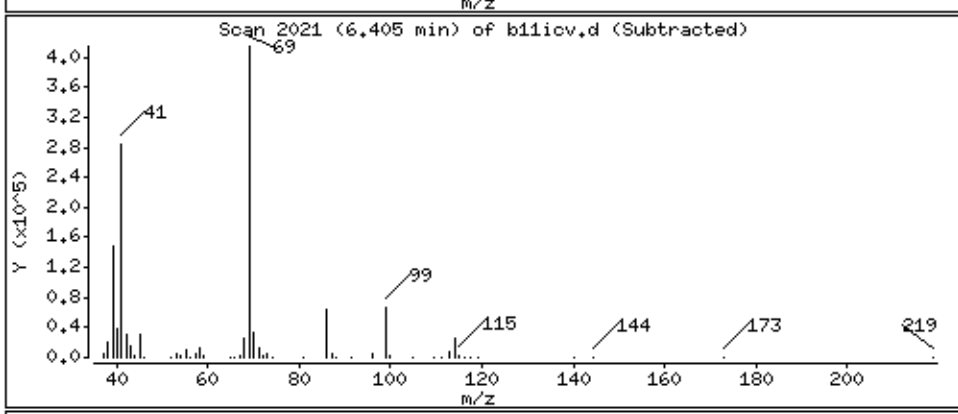
Column diameter: 0.18

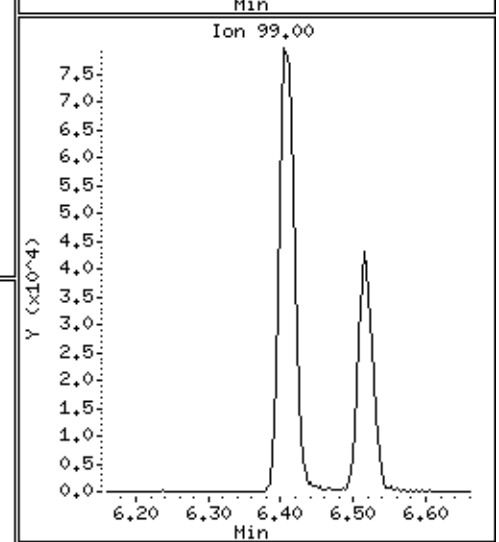
58 Ethyl Methacrylate

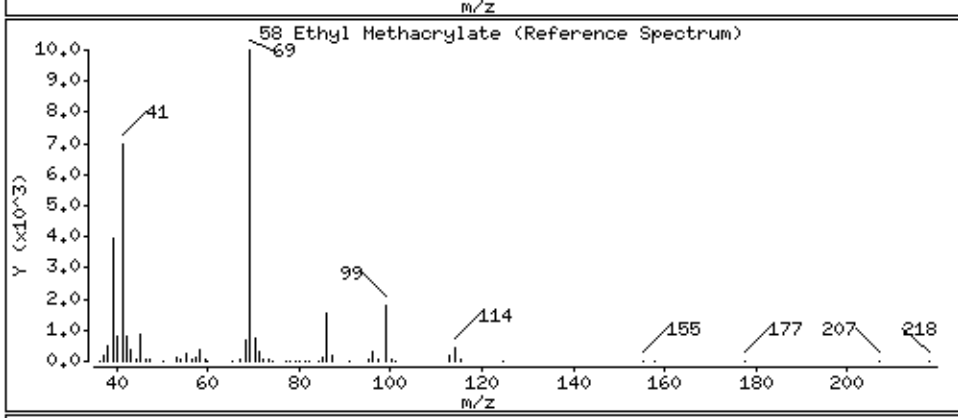
Concentration: 218 ppb

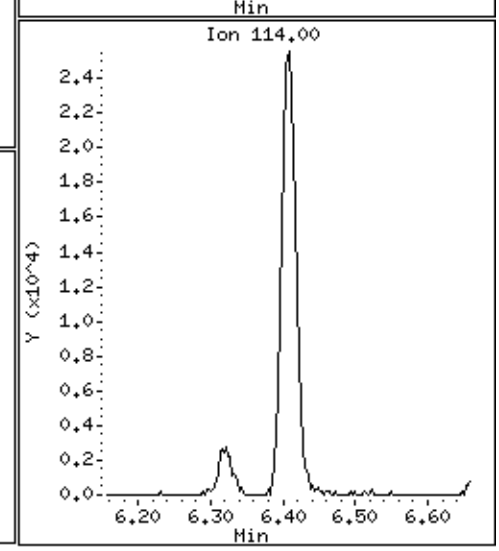


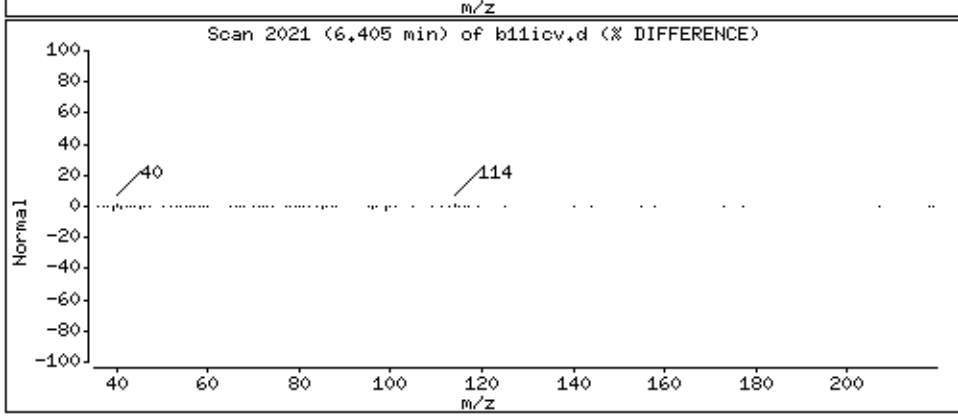












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

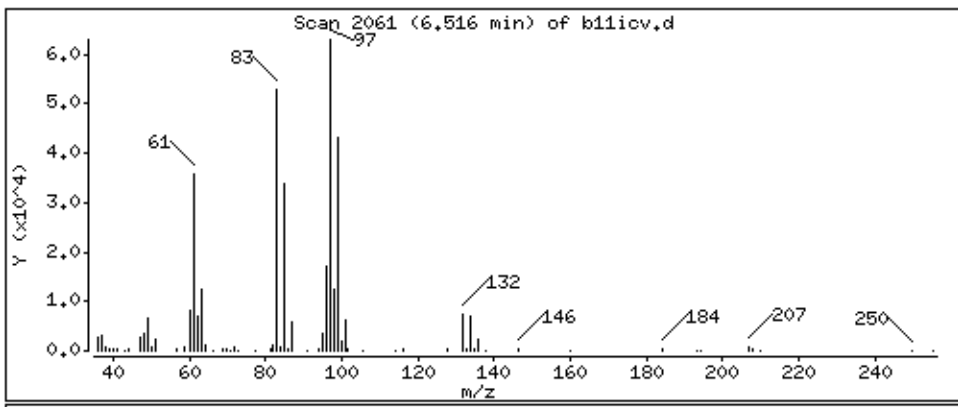
Operator: dae

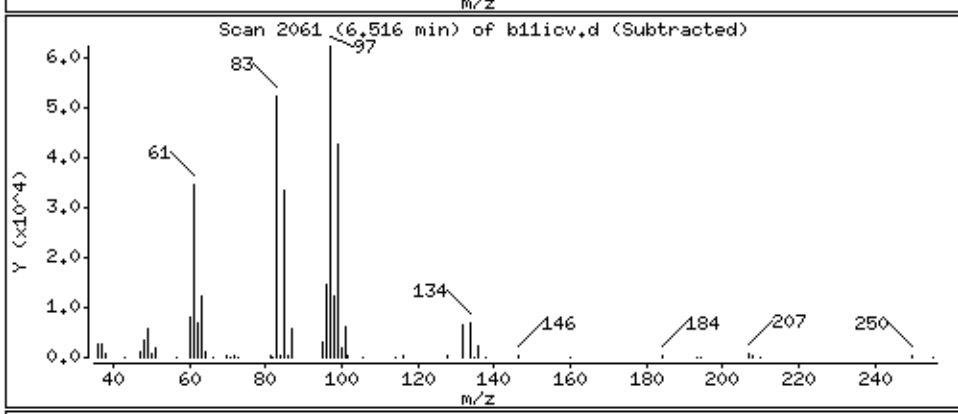
Column phase: DB-624

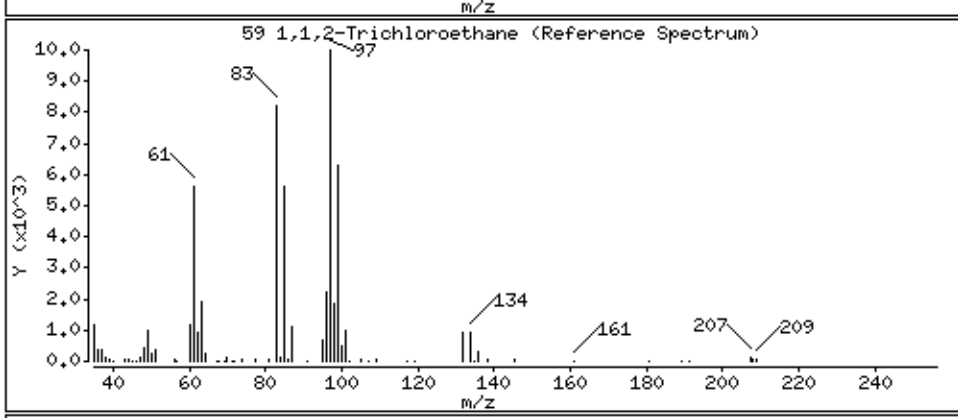
Column diameter: 0.18

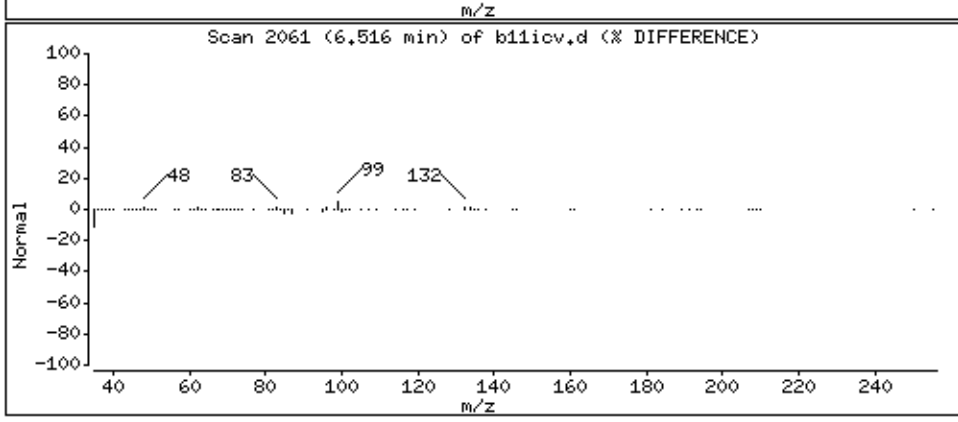
59 1,1,2-Trichloroethane

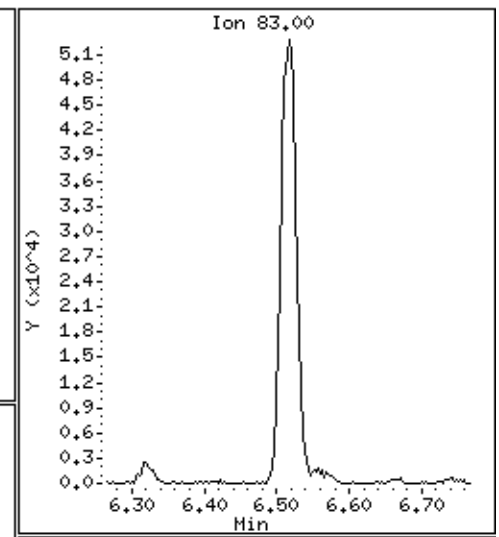
Concentration: 49.7 ppb

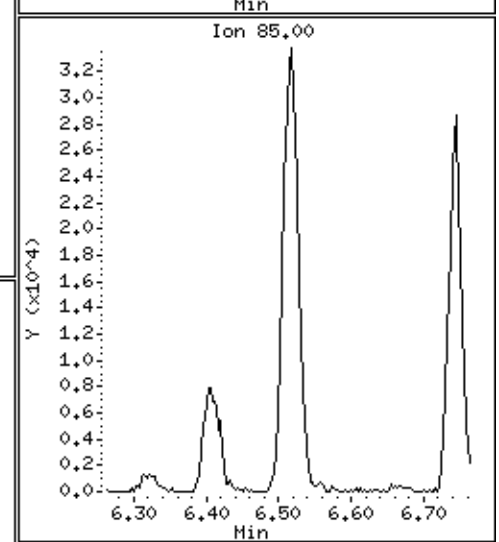


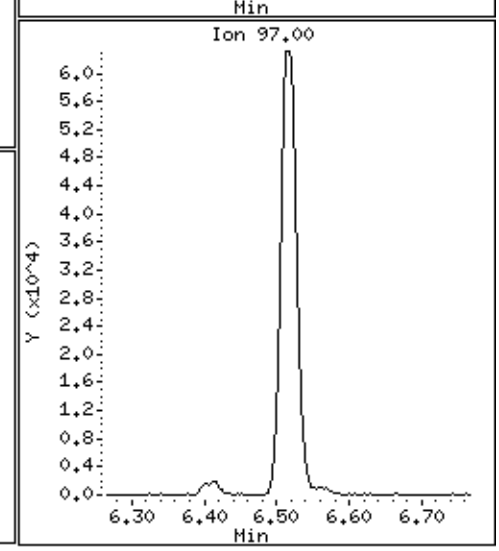












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

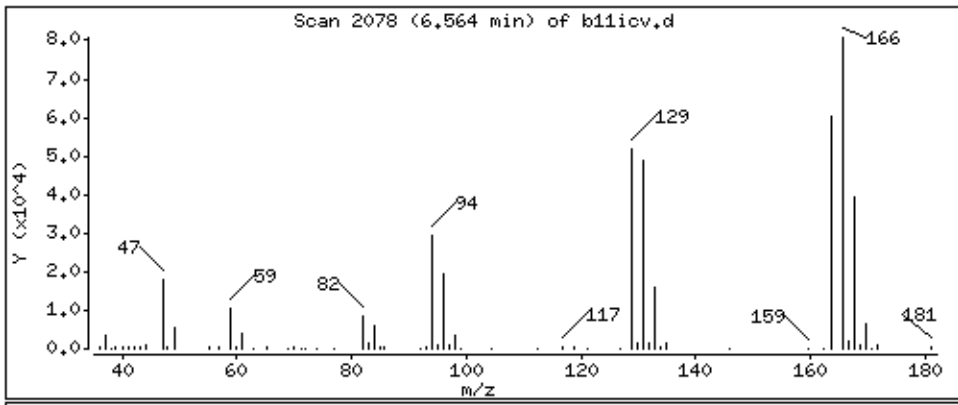
Operator: dae

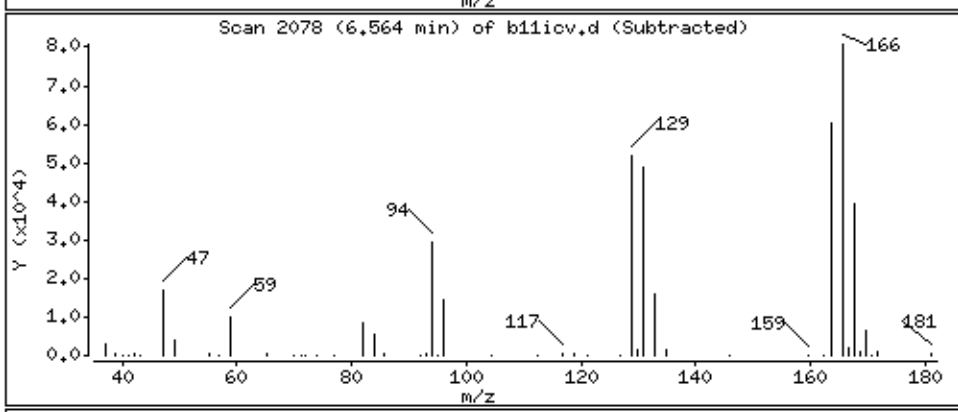
Column phase: DB-624

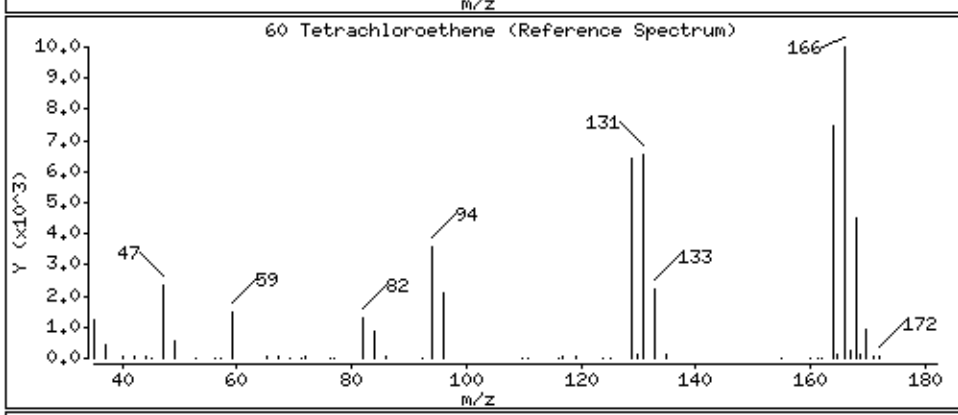
Column diameter: 0.18

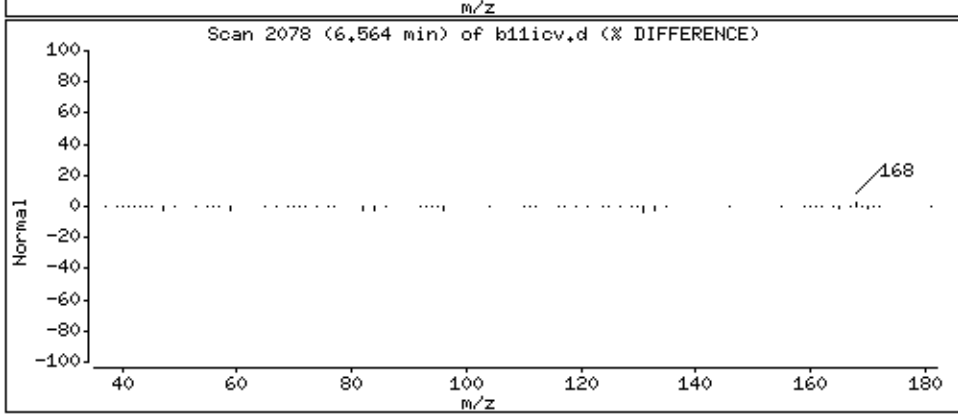
60 Tetrachloroethene

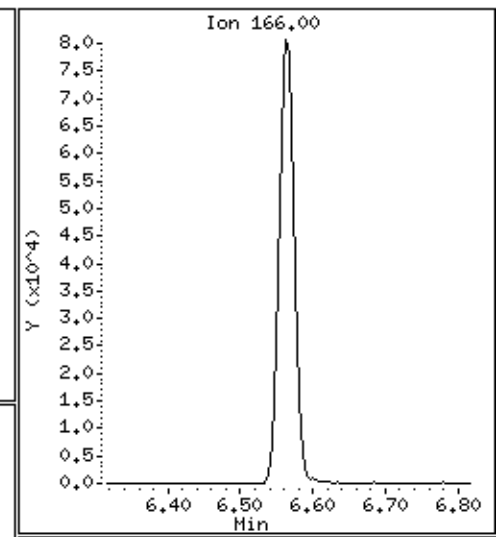
Concentration: 49.4 ppb

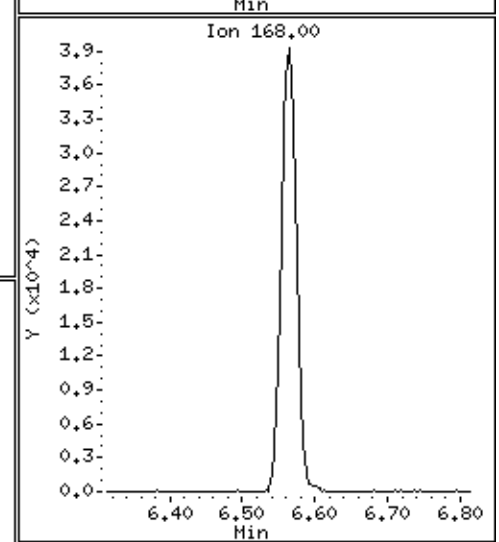


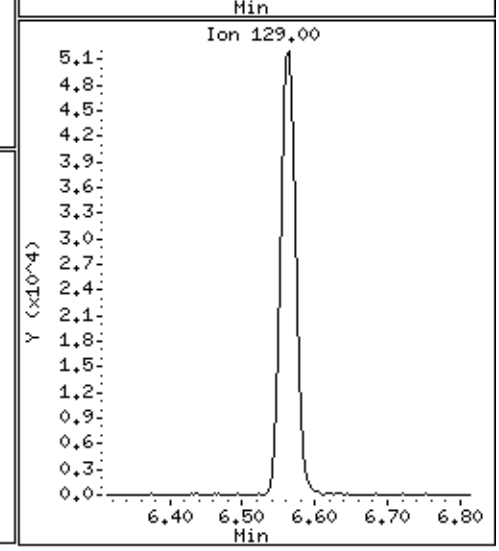












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

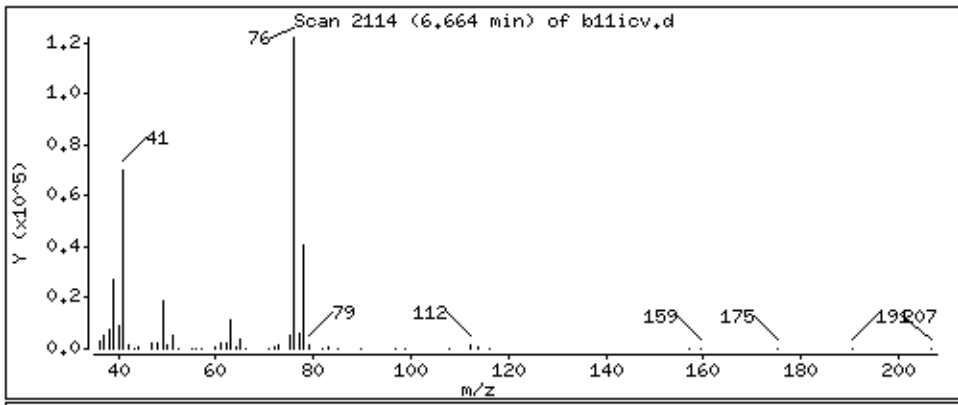
Operator: dae

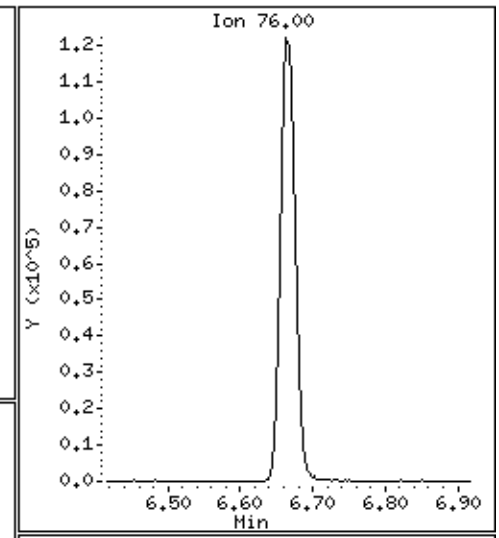
Column phase: DB-624

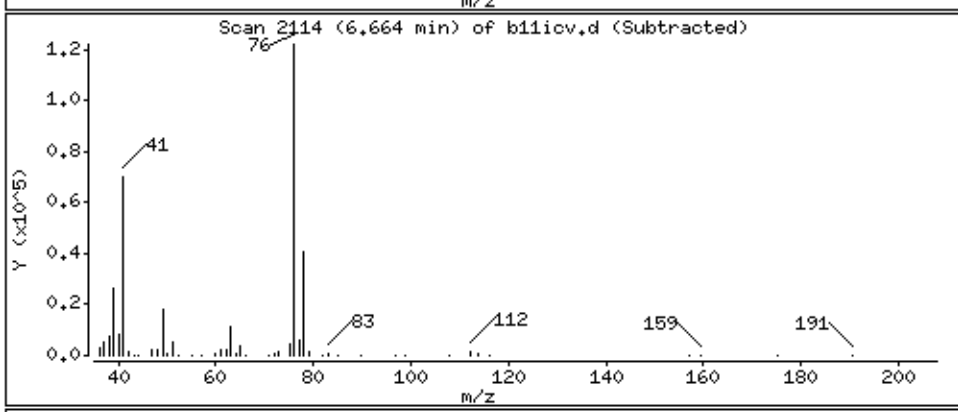
Column diameter: 0.18

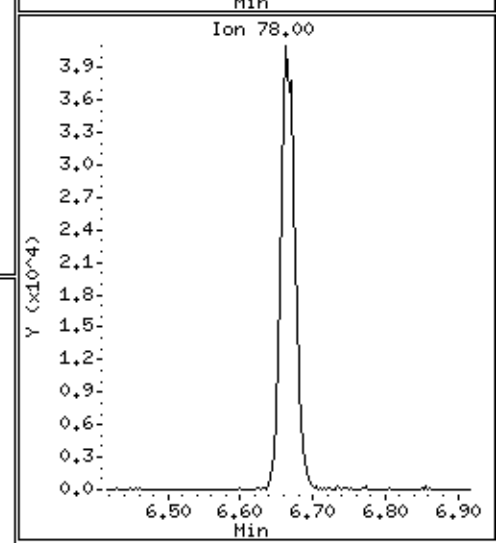
61 1,3-Dichloropropane

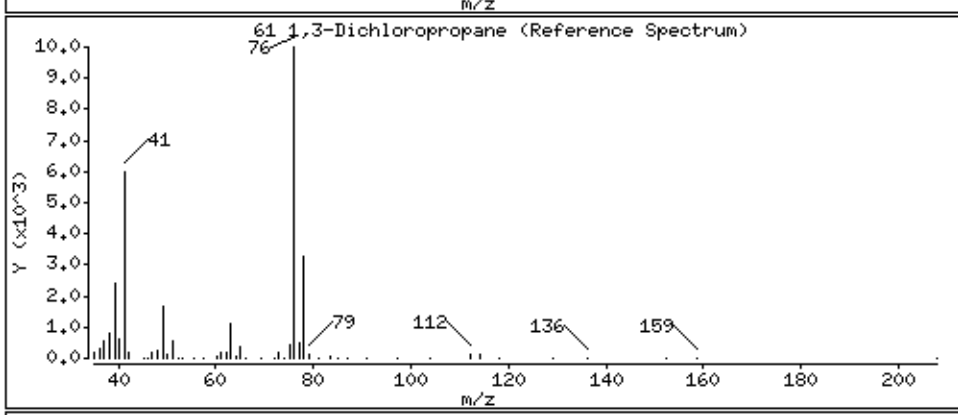
Concentration: 54.8 ppb

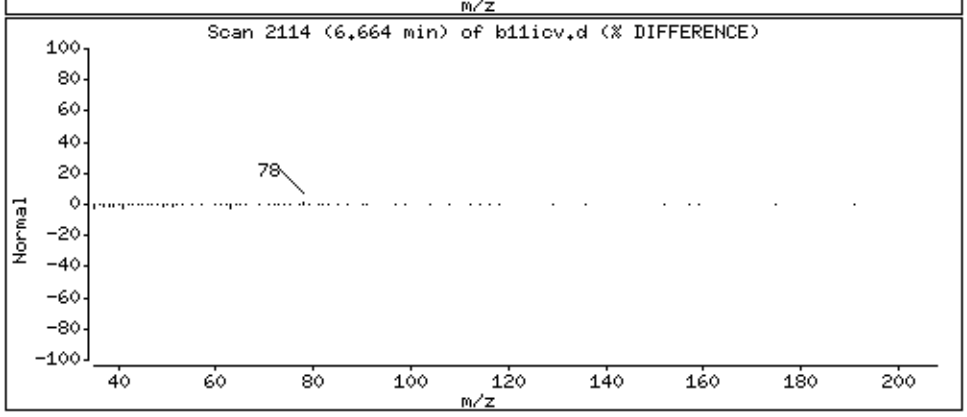












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

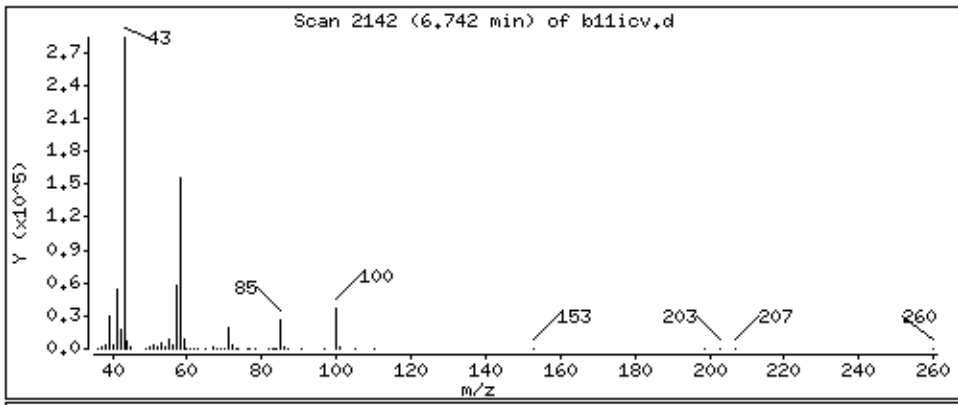
Operator: dae

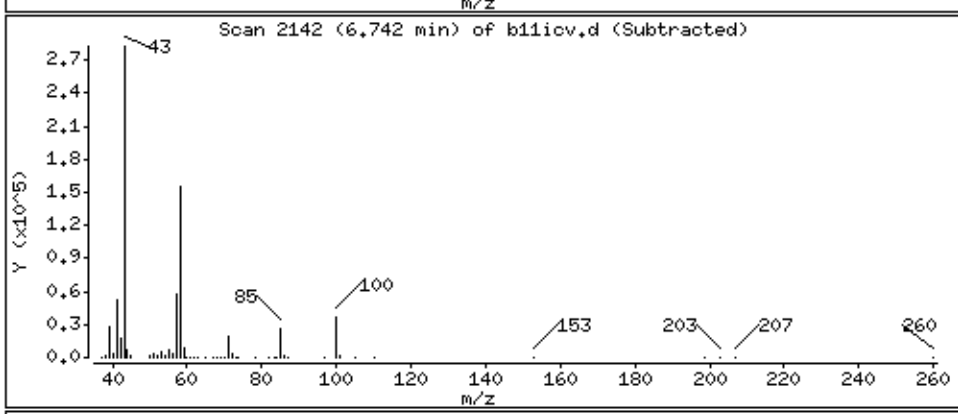
Column phase: DB-624

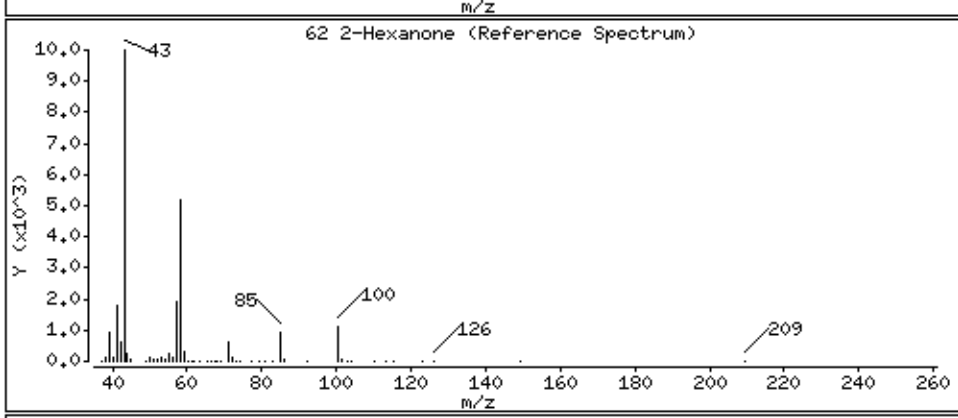
Column diameter: 0.18

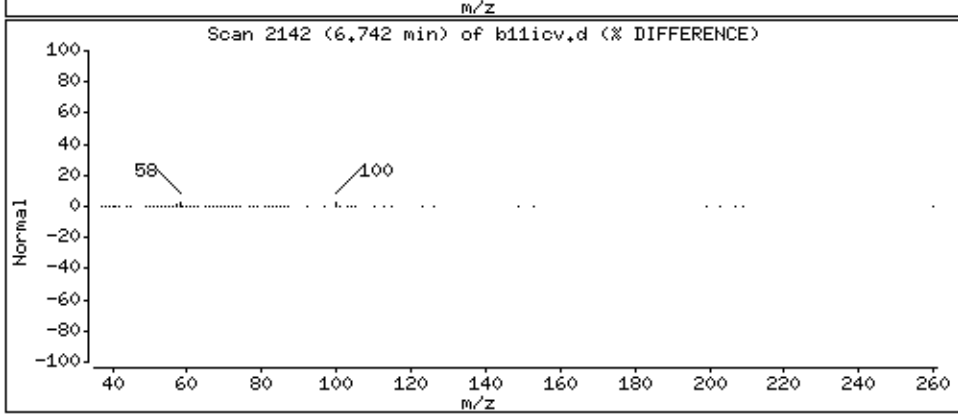
62 2-Hexanone

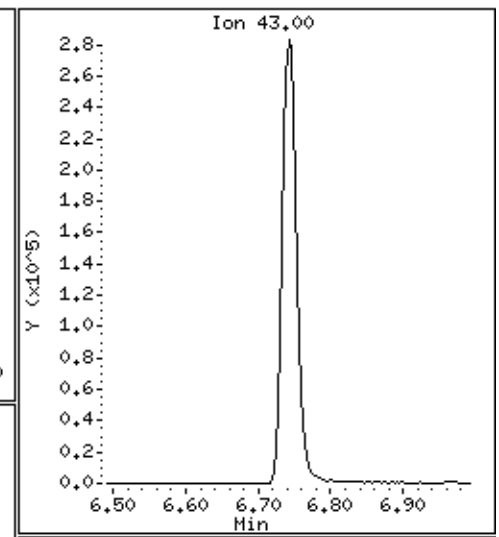
Concentration: 258 ppb

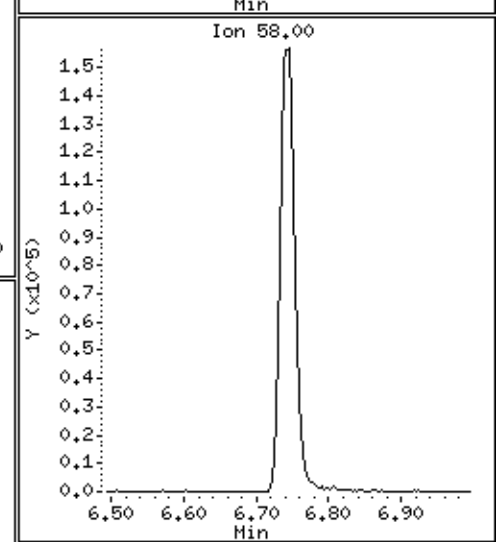


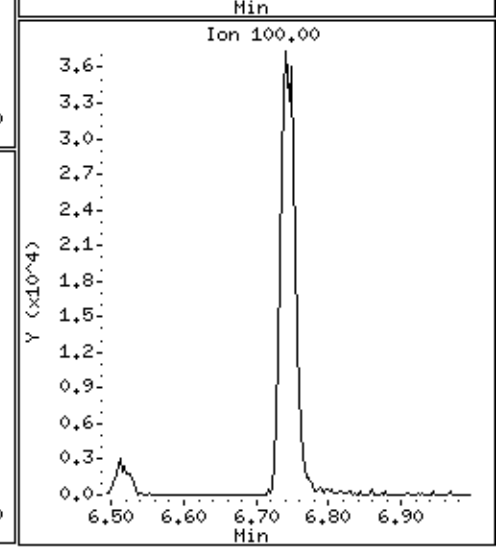












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

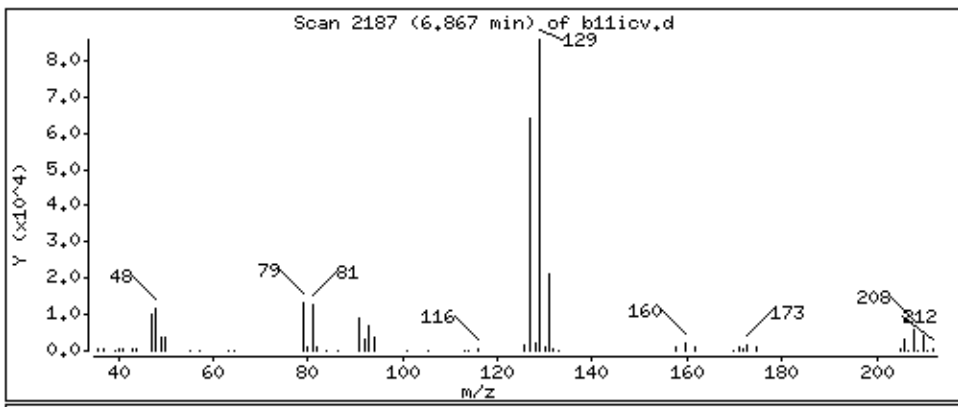
Operator: dae

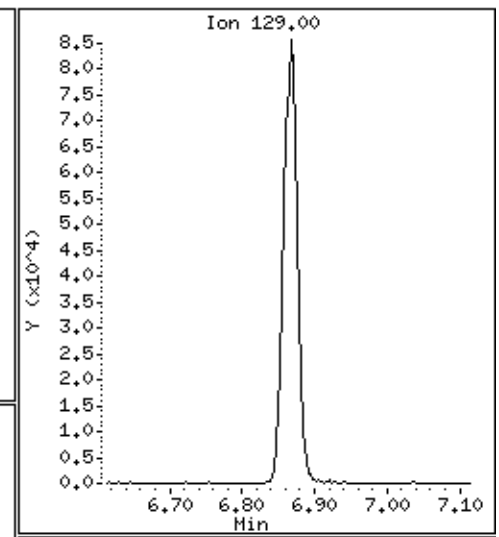
Column phase: DB-624

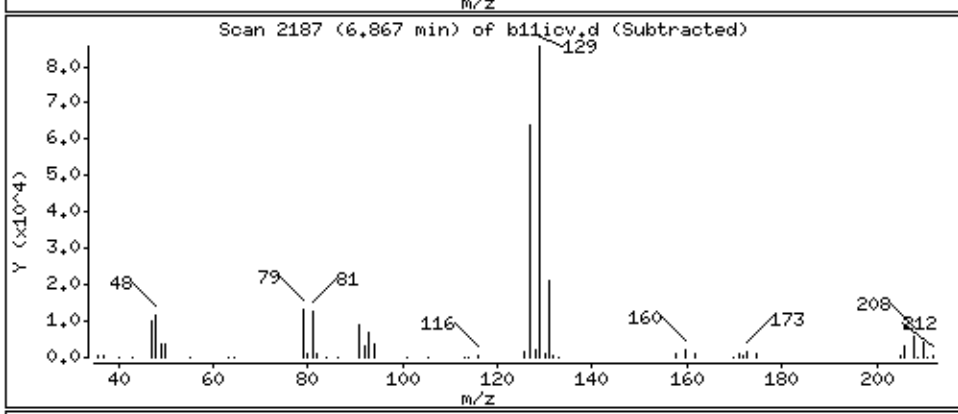
Column diameter: 0.18

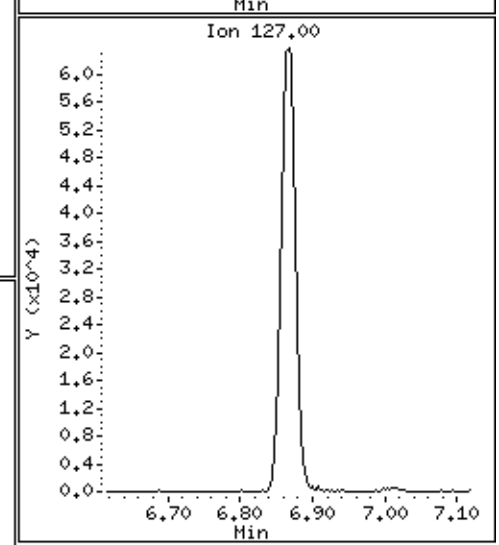
63 Dibromochloromethane

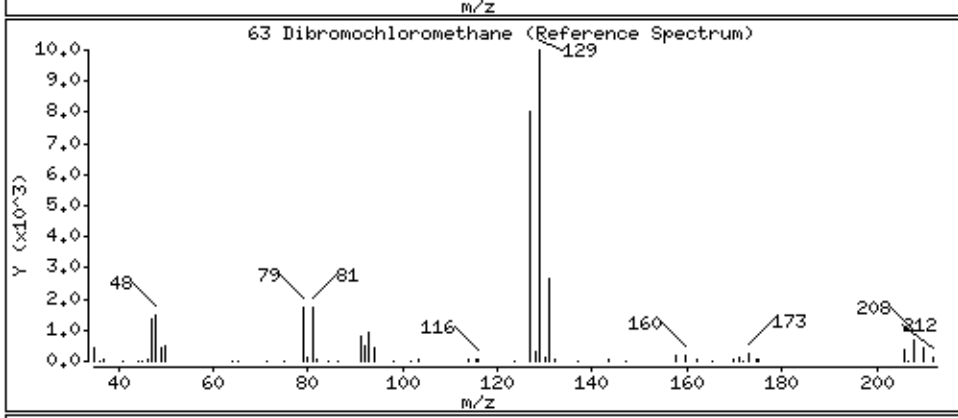
Concentration: 52.4 ppb

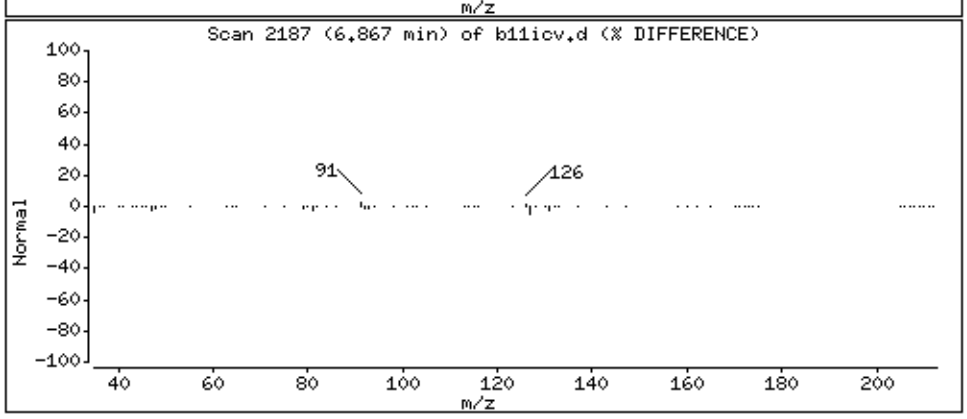












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

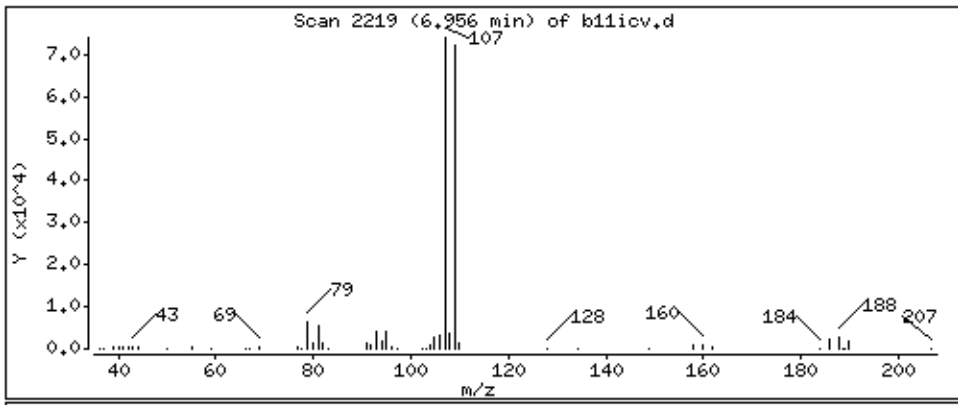
Operator: dae

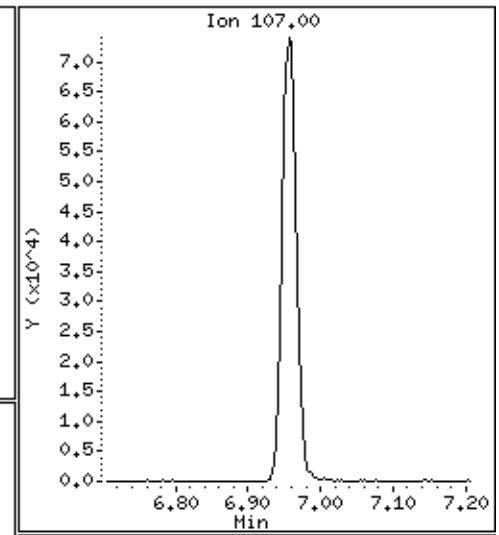
Column phase: DB-624

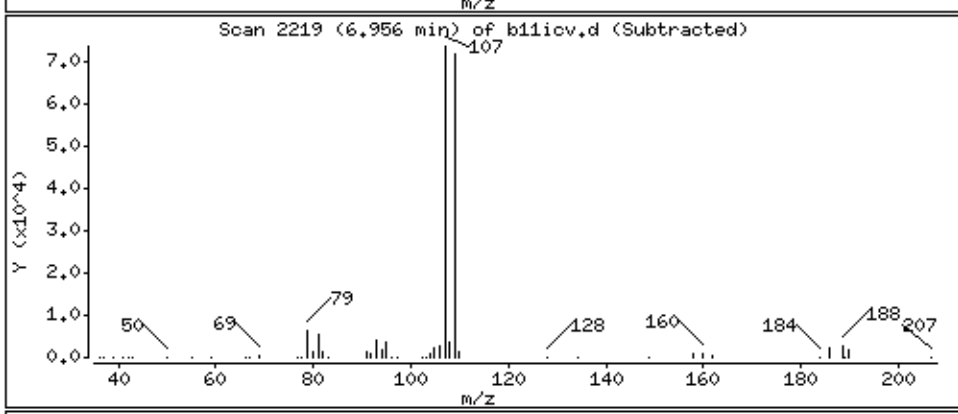
Column diameter: 0.18

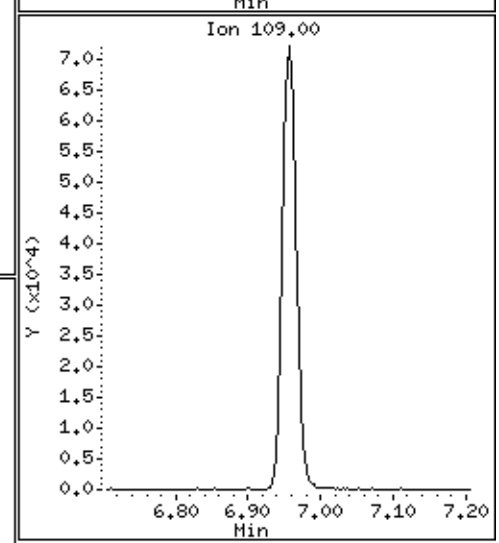
64 1,2-Dibromoethane

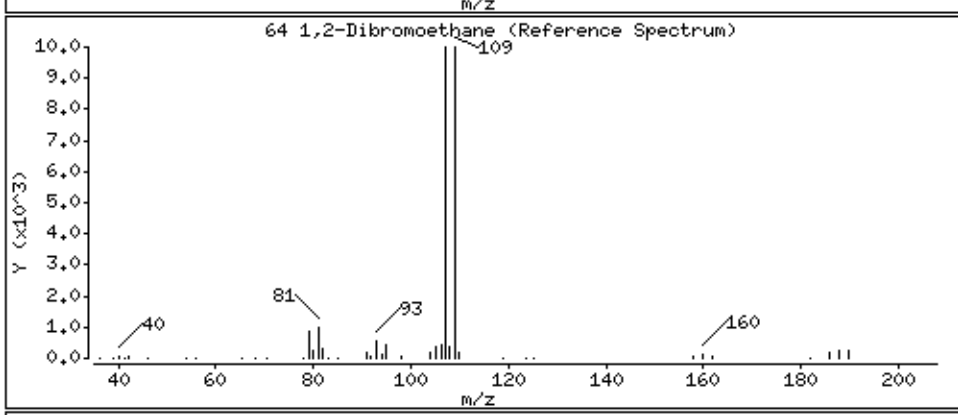
Concentration: 52.4 ppb

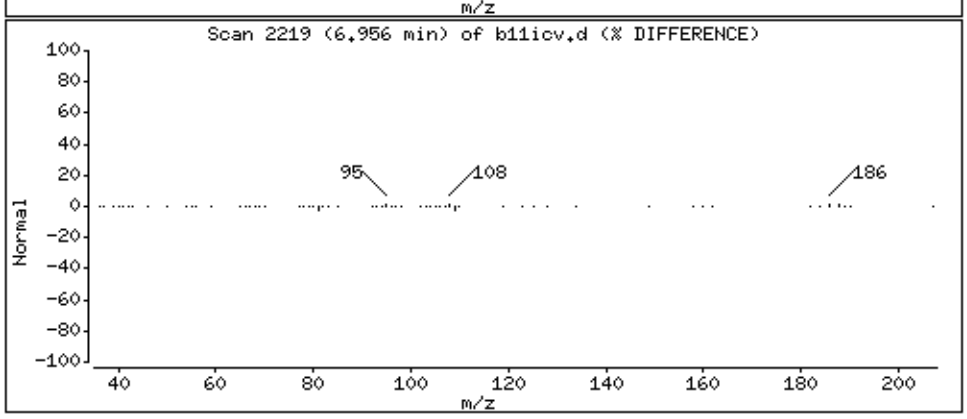












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

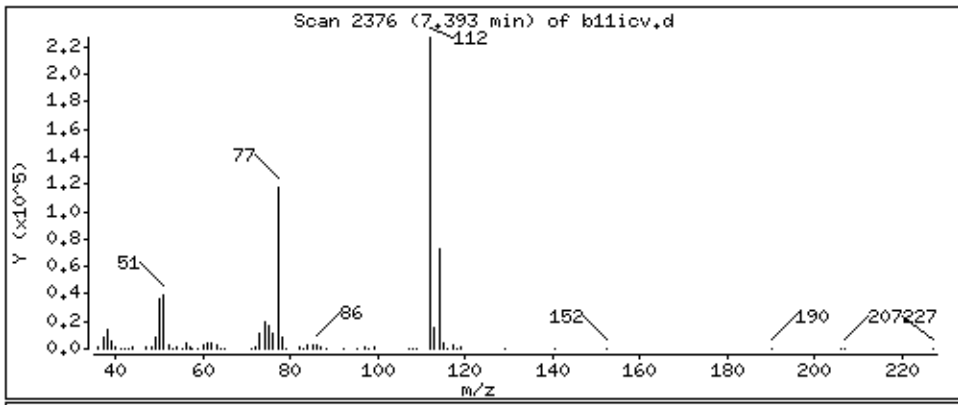
Operator: dae

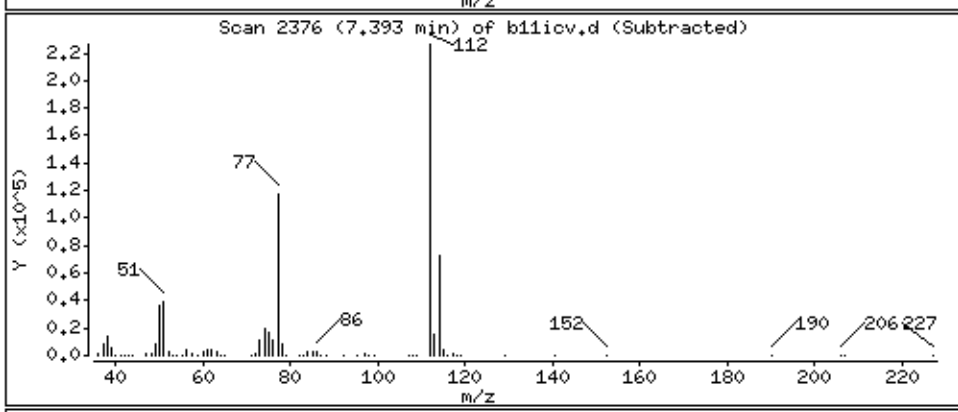
Column phase: DB-624

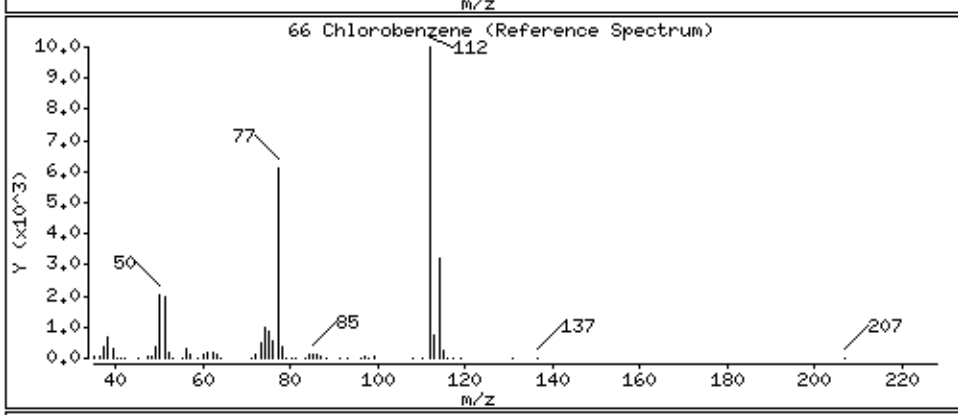
Column diameter: 0.18

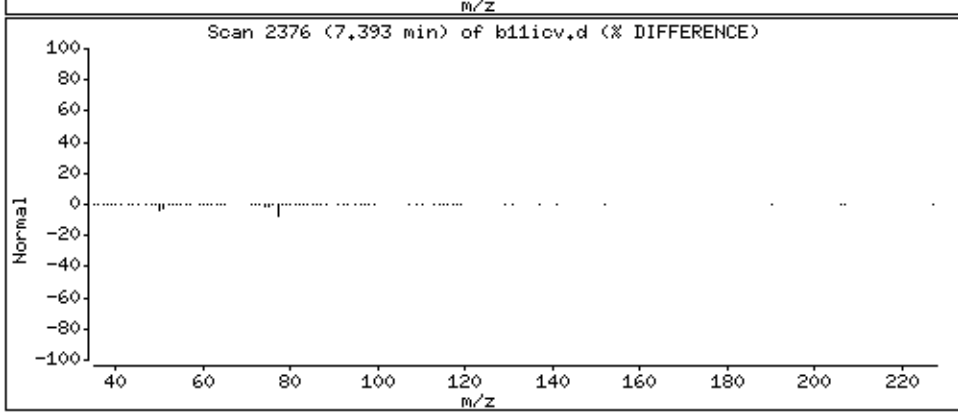
66 Chlorobenzene

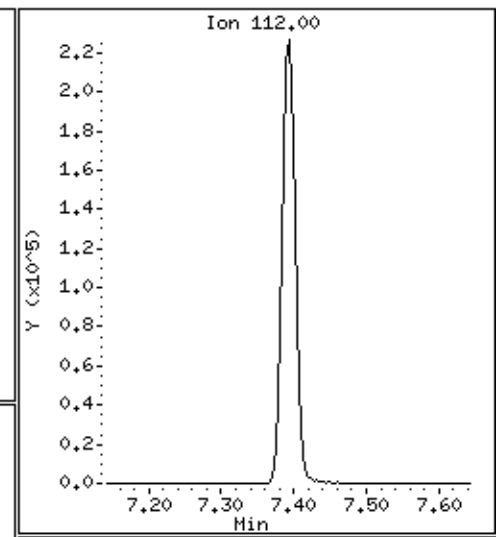
Concentration: 49.9 ppb

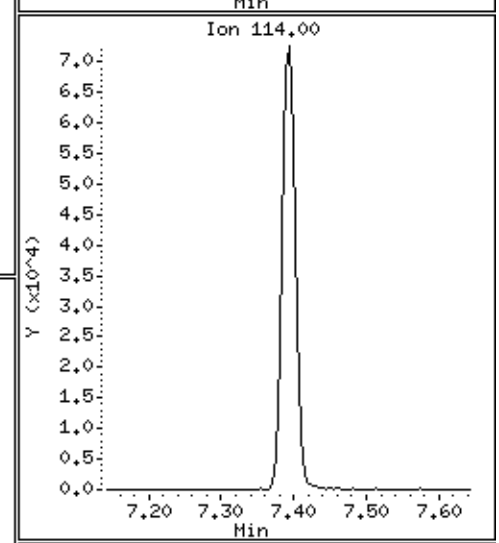


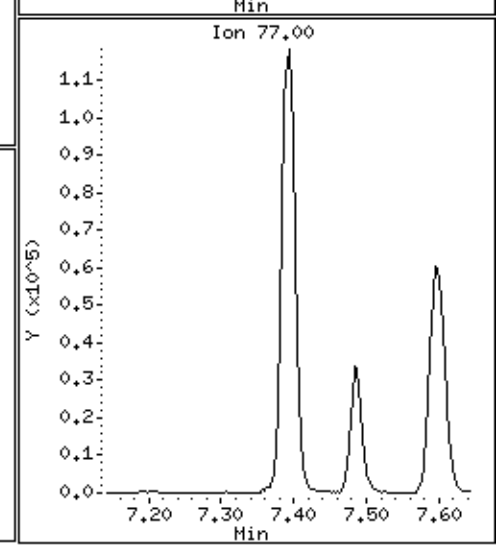












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

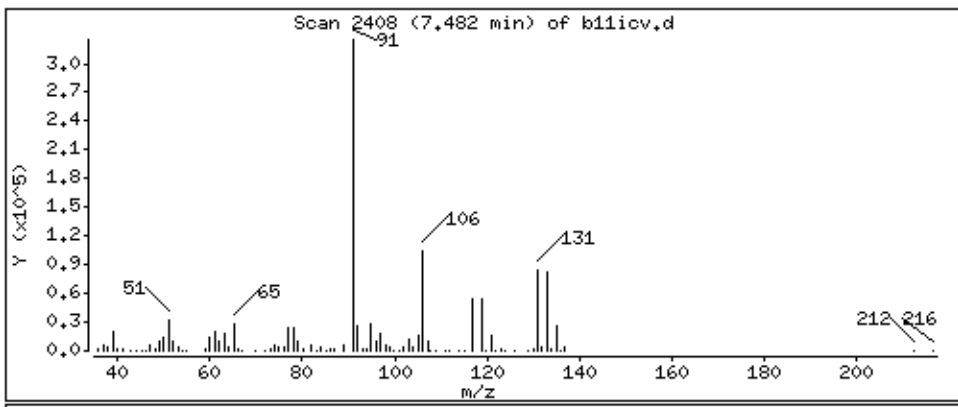
Operator: dae

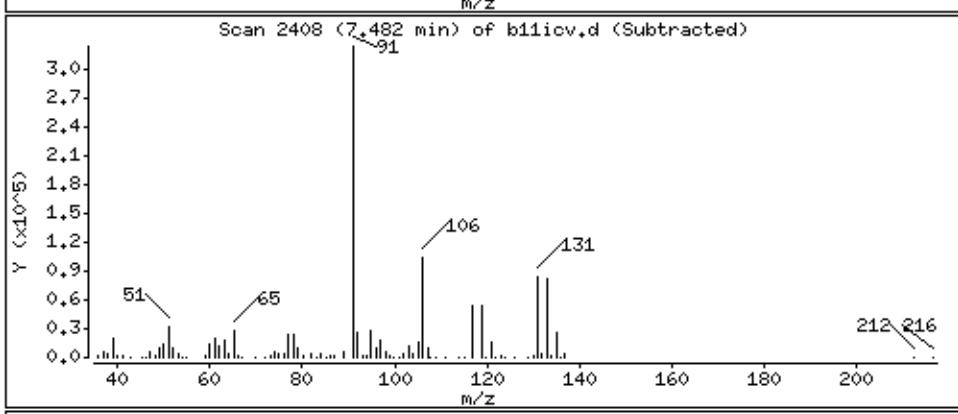
Column phase: DB-624

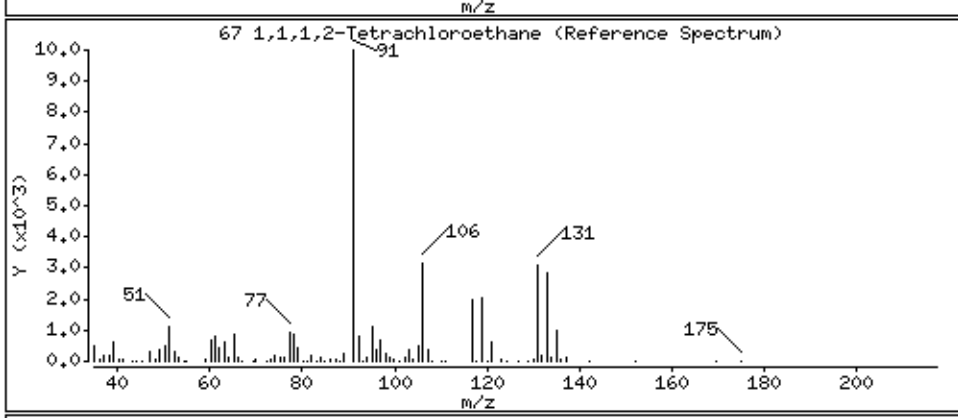
Column diameter: 0.18

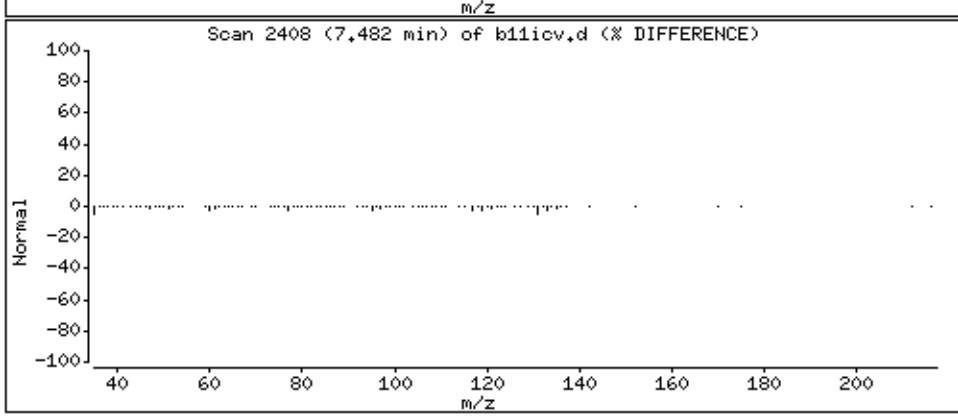
67 1,1,1,2-Tetrachloroethane

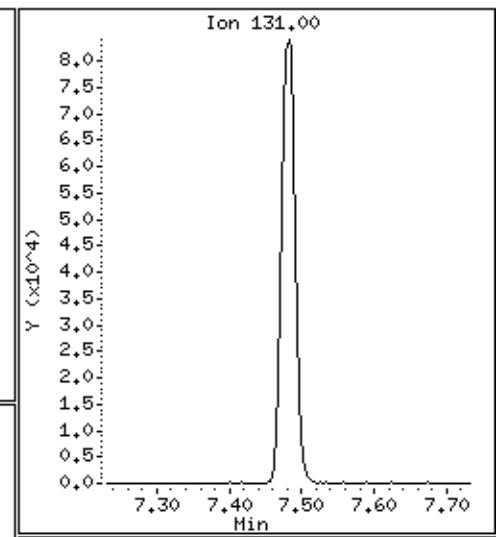
Concentration: 52.8 ppb

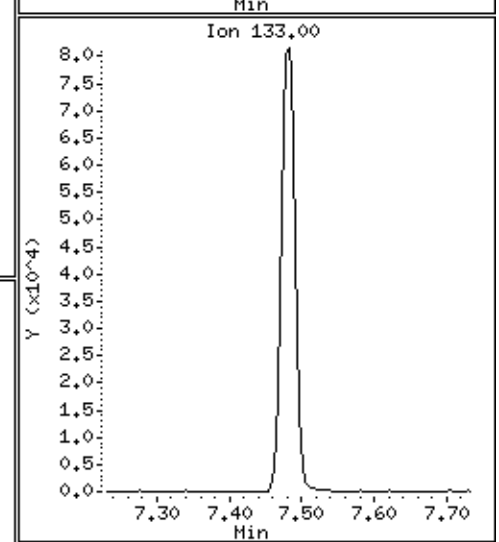


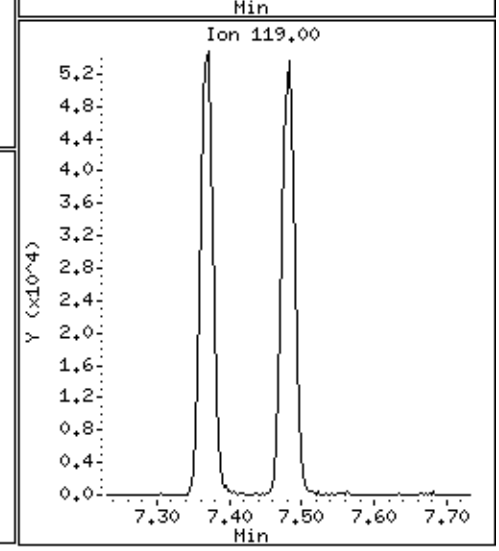












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

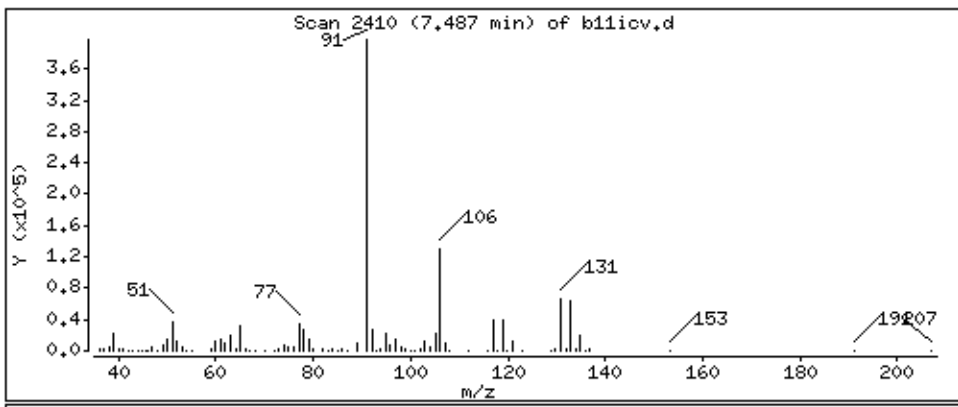
Operator: dae

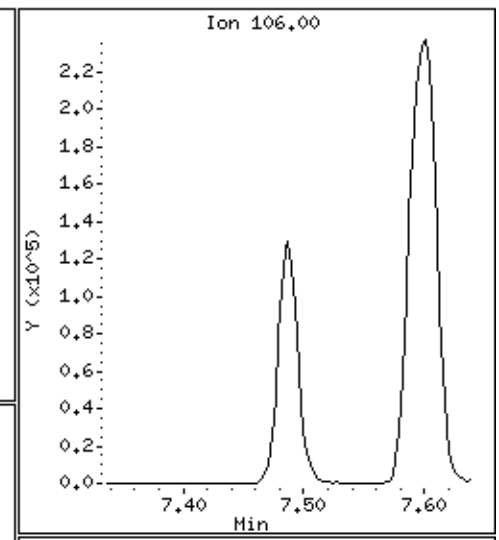
Column phase: DB-624

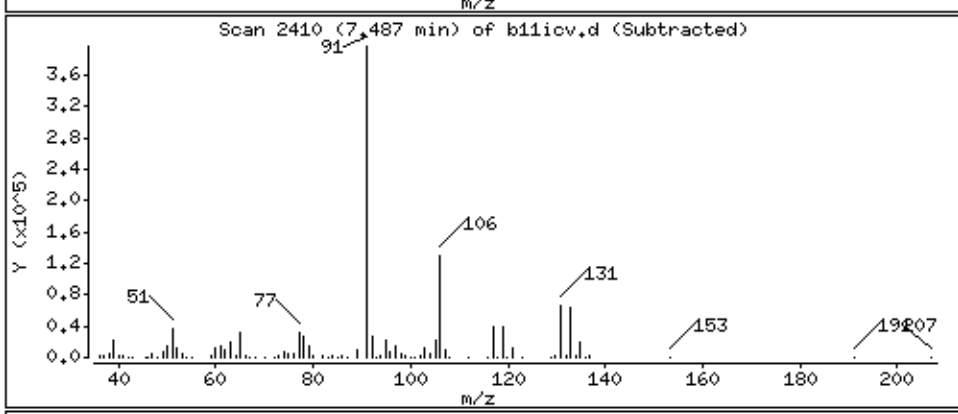
Column diameter: 0.18

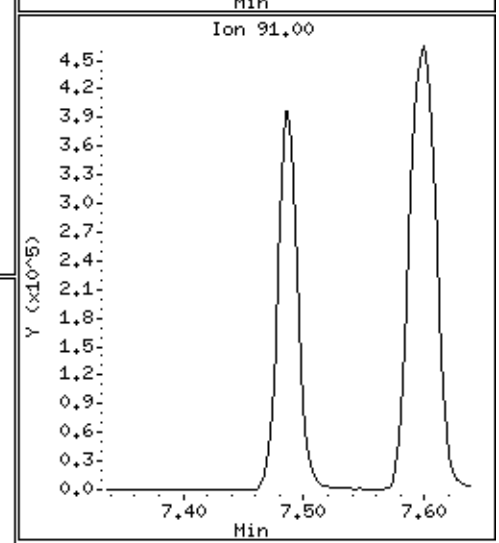
68 Ethylbenzene

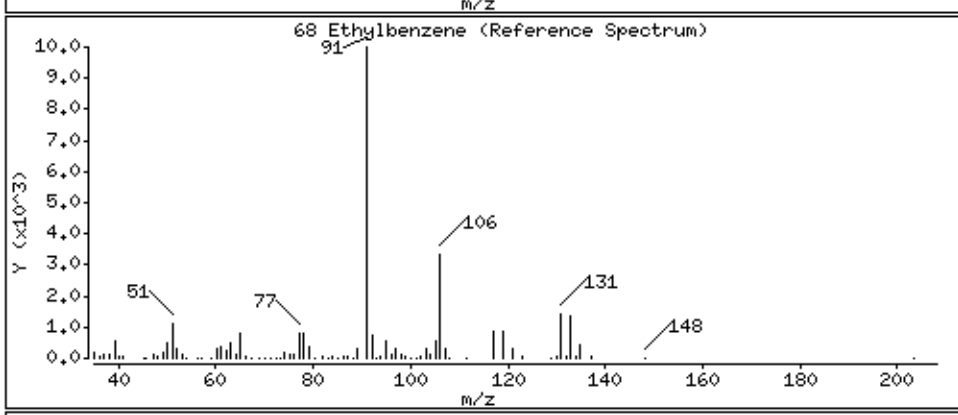
Concentration: 50.9 ppb

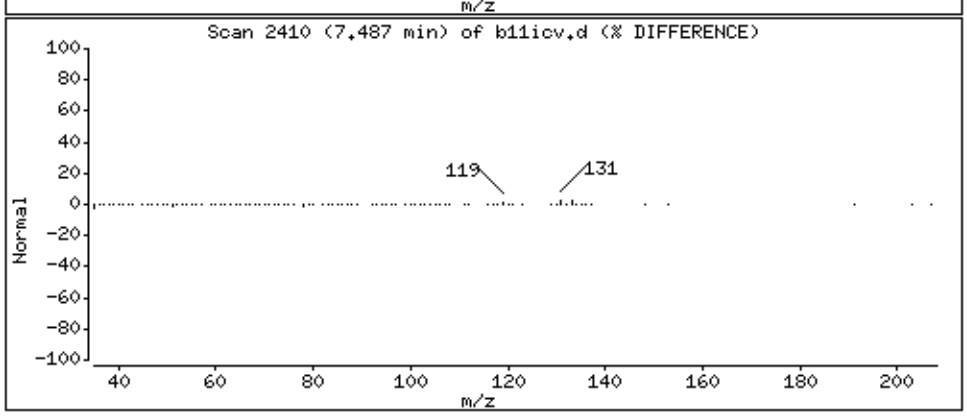












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

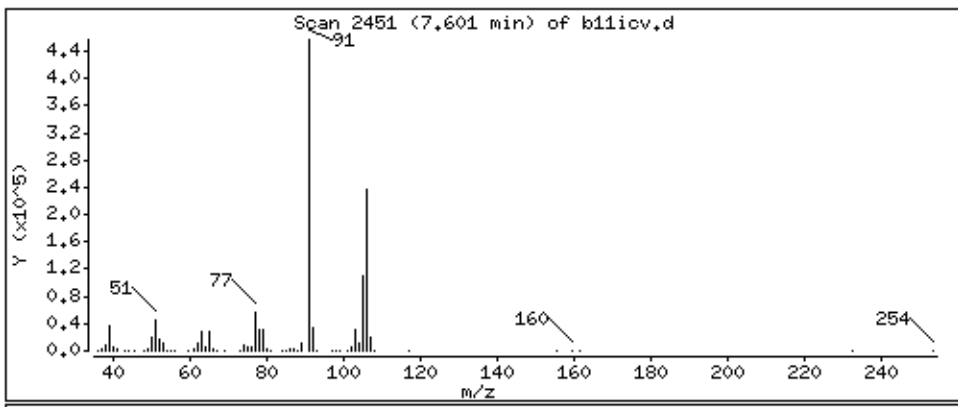
Operator: dae

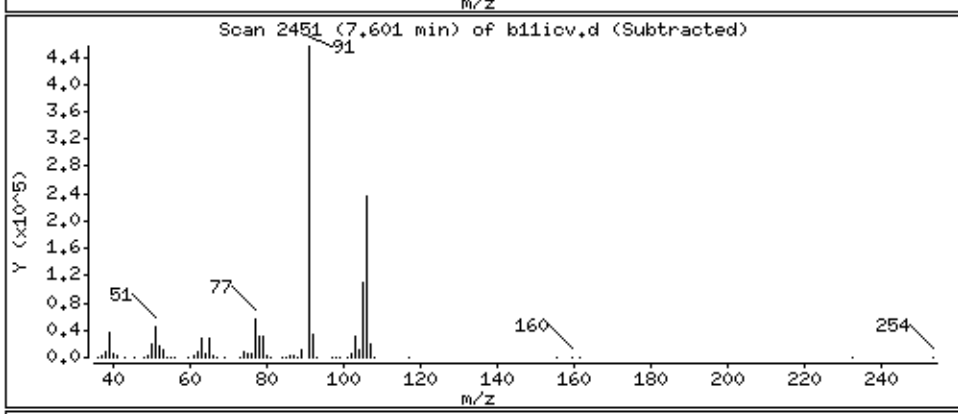
Column phase: DB-624

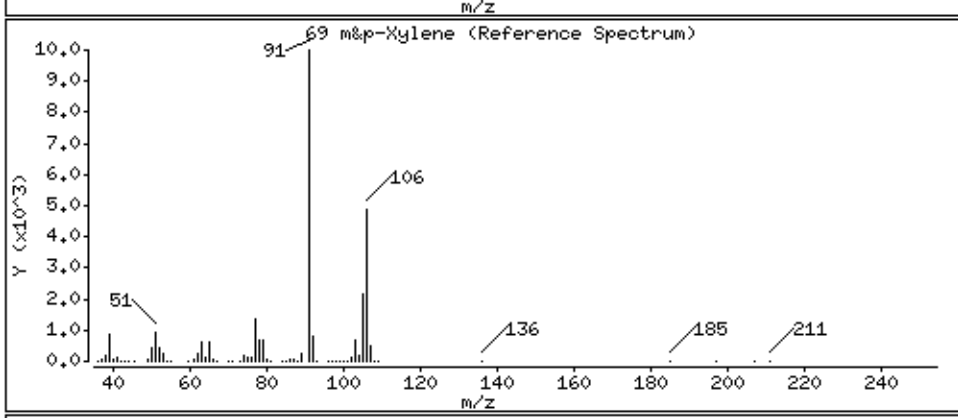
Column diameter: 0.18

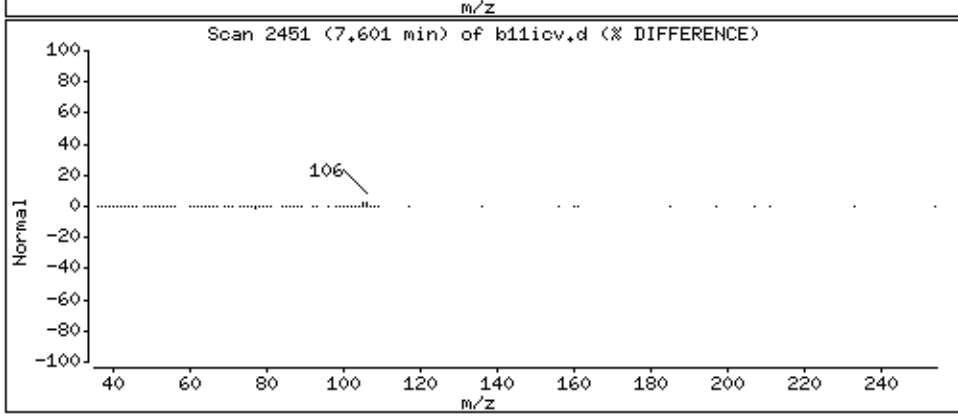
69 m&p-Xylene

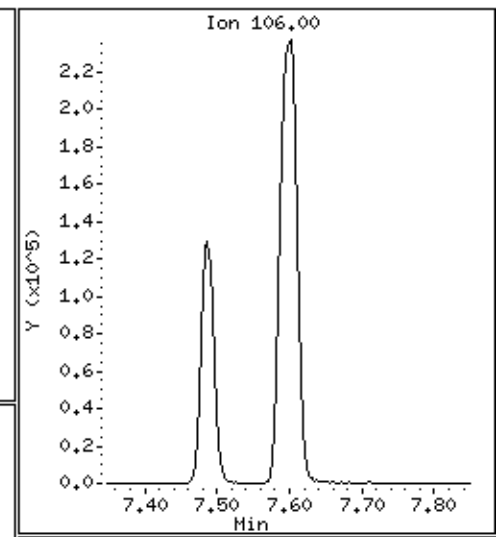
Concentration: 103 ppb

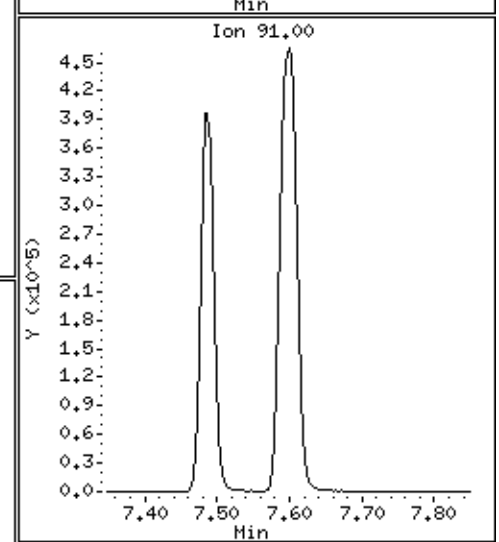


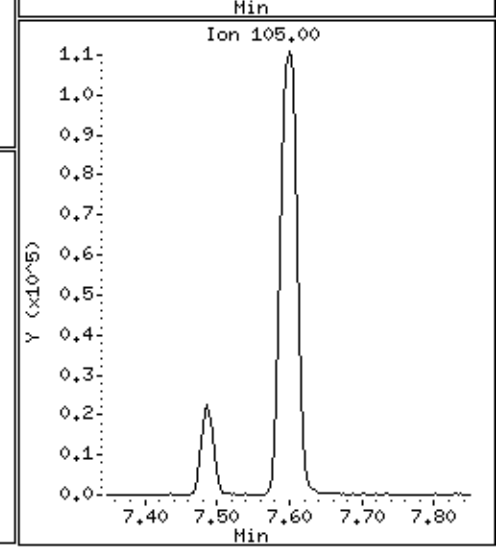












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

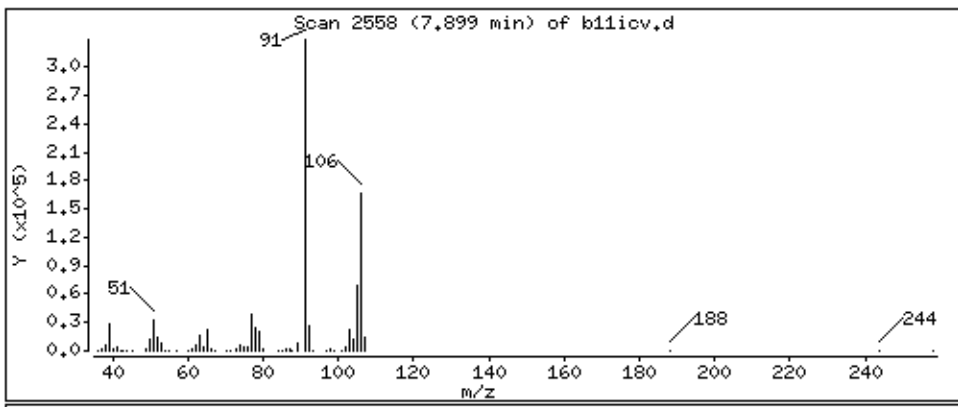
Operator: dae

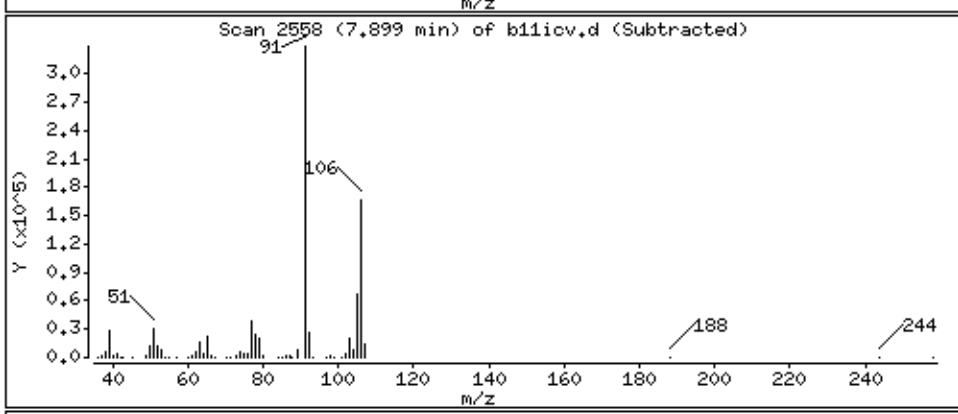
Column phase: DB-624

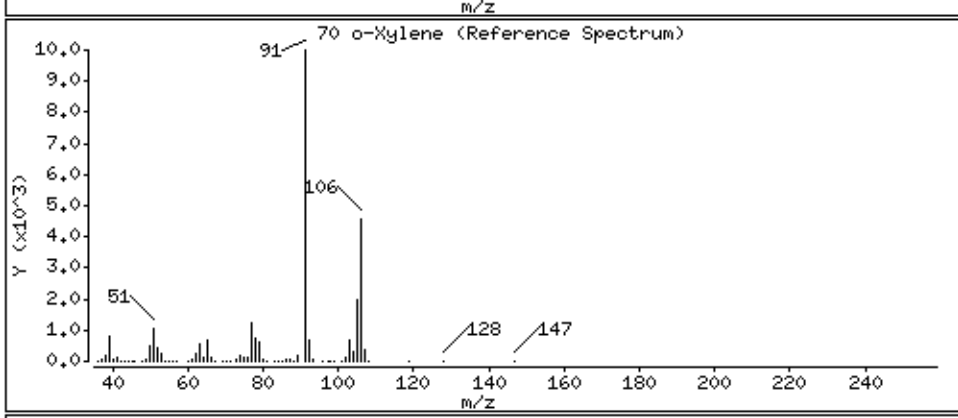
Column diameter: 0.18

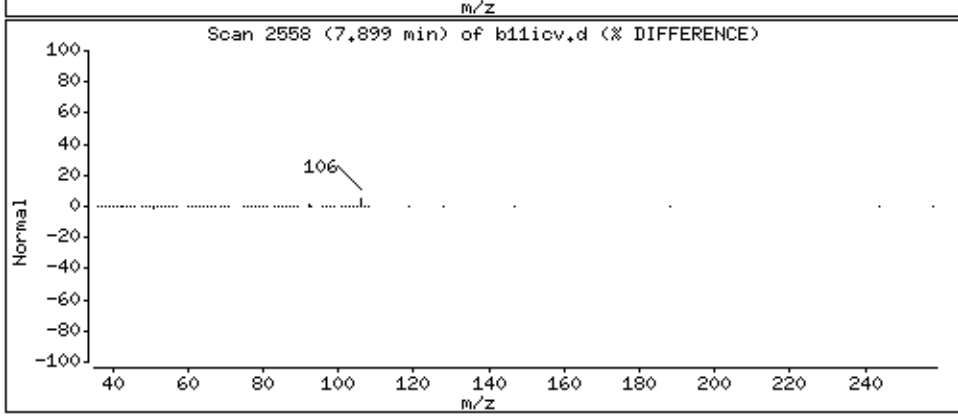
70 o-Xylene

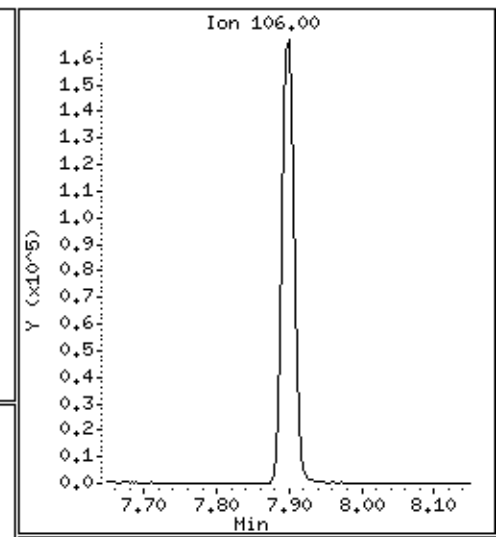
Concentration: 52.3 ppb

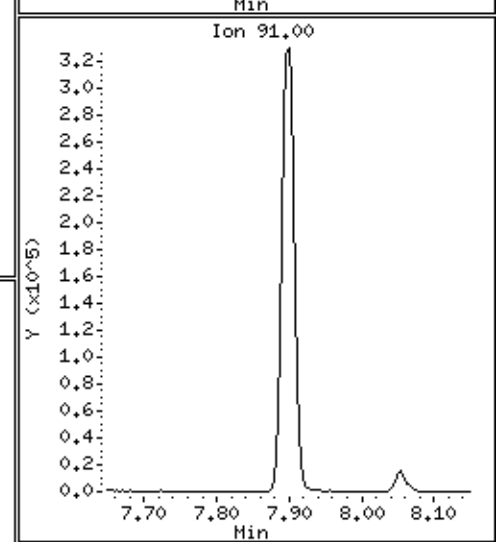


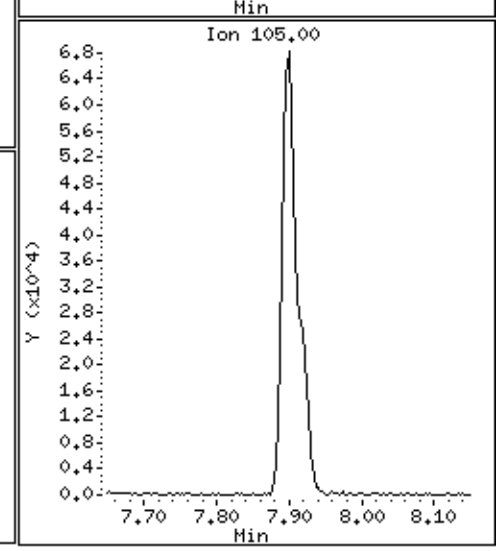












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

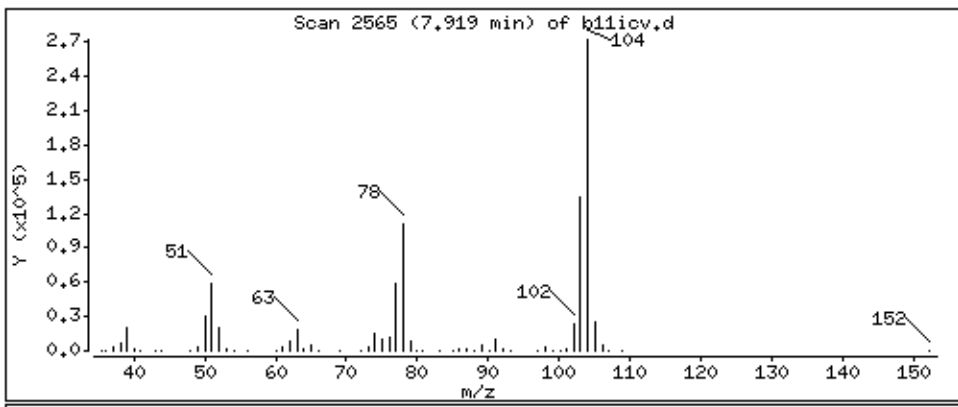
Operator: dae

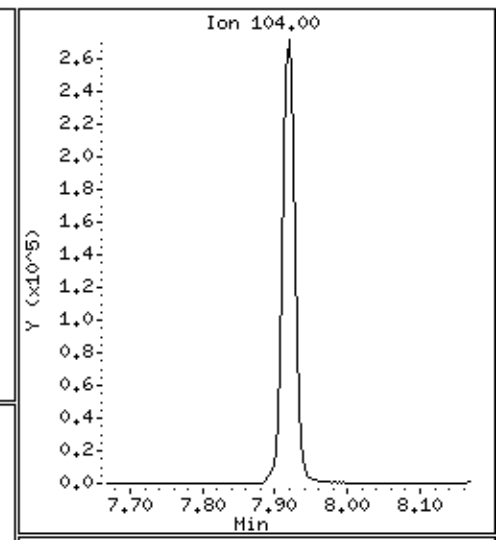
Column phase: DB-624

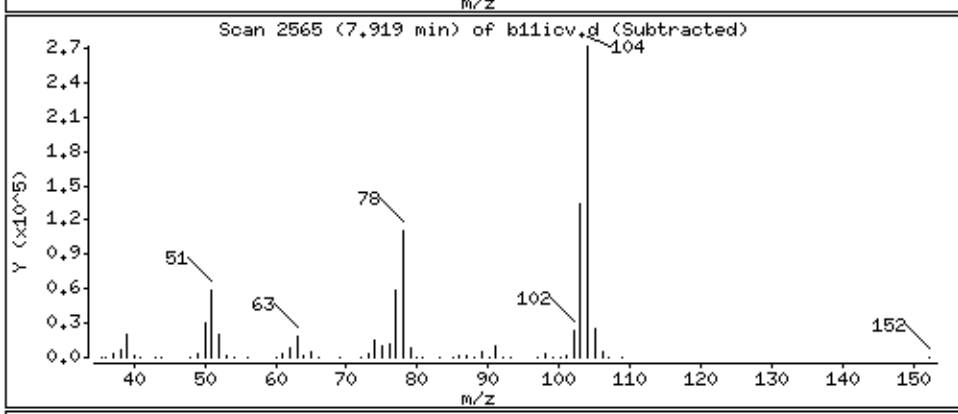
Column diameter: 0.18

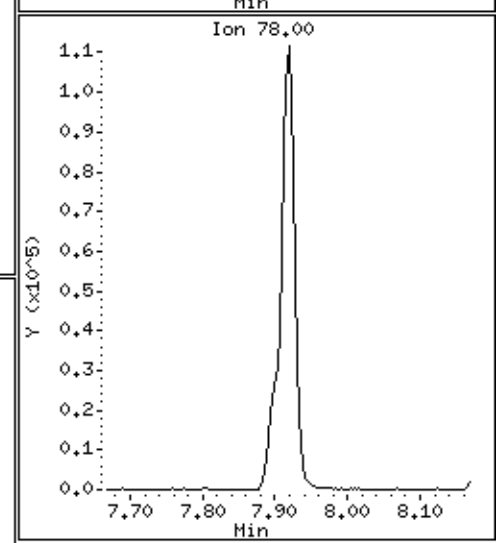
71 Styrene

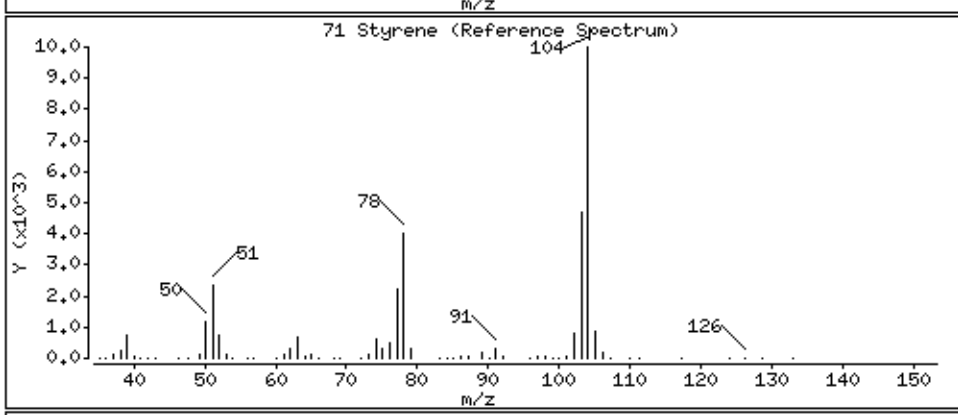
Concentration: 52.0 ppb

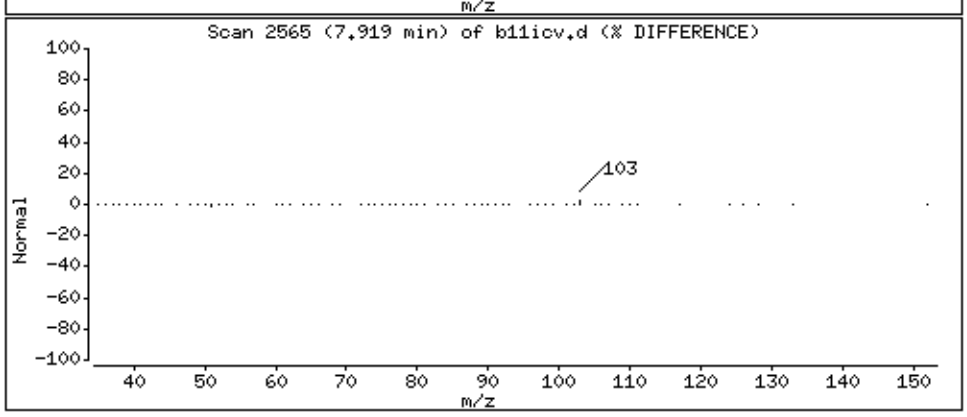












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

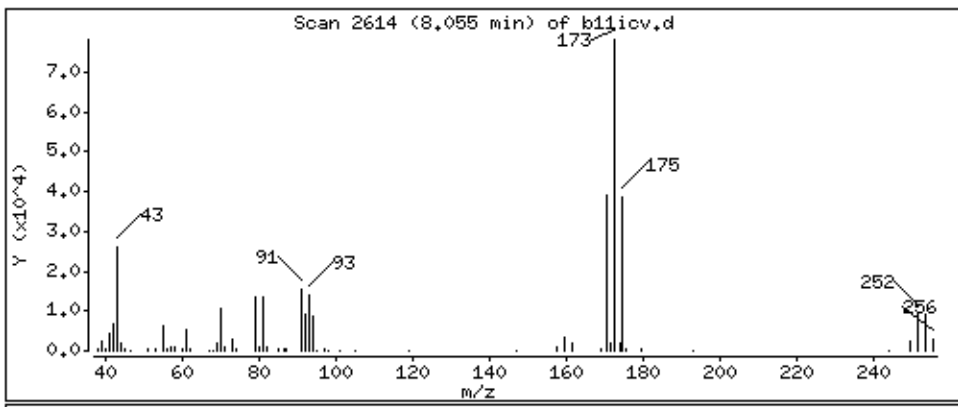
Operator: dae

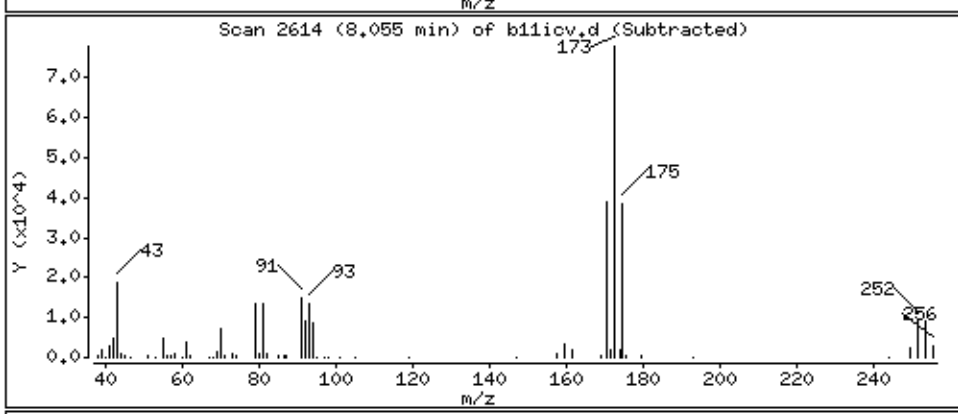
Column phase: DB-624

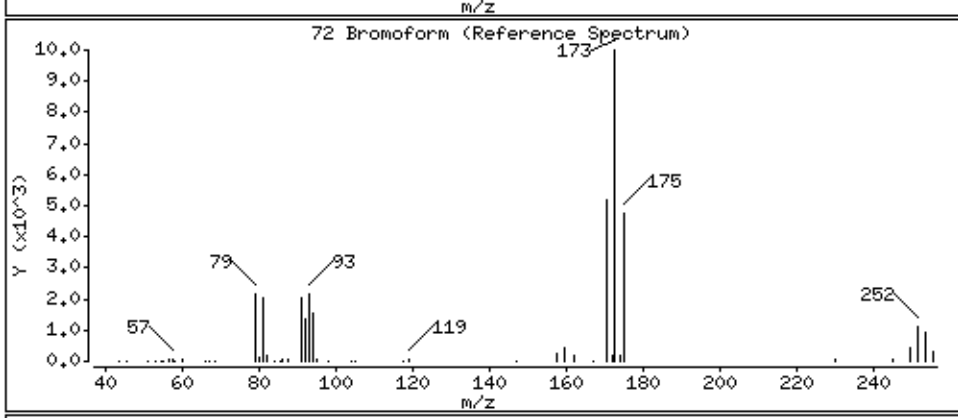
Column diameter: 0.18

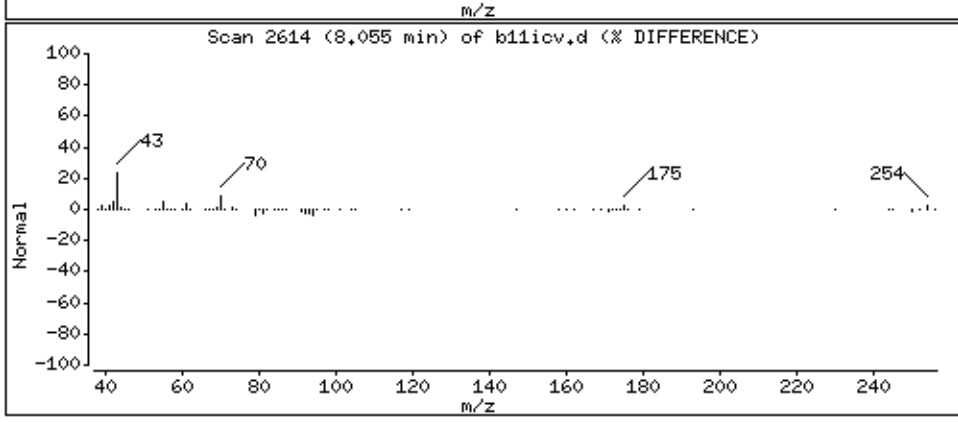
72 Bromoform

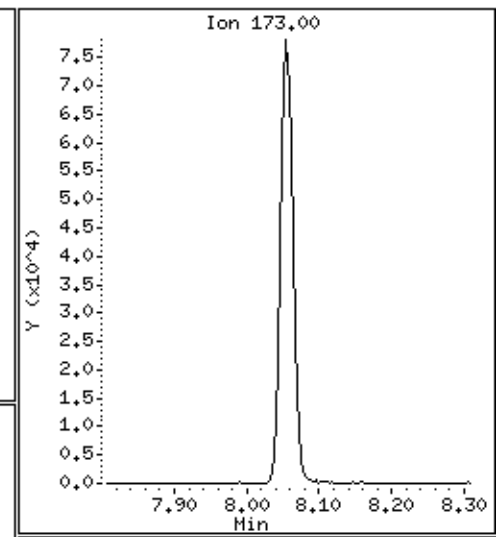
Concentration: 49.9 ppb

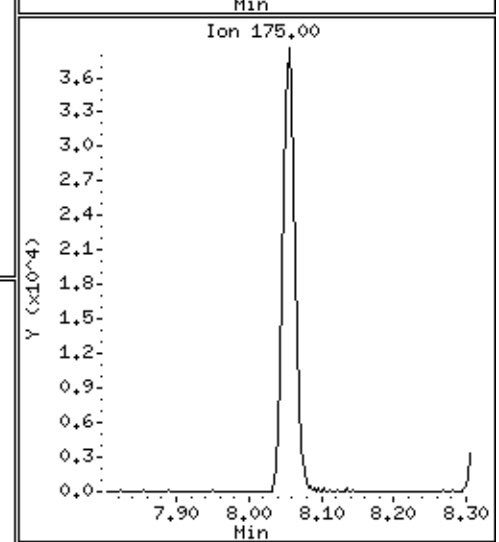


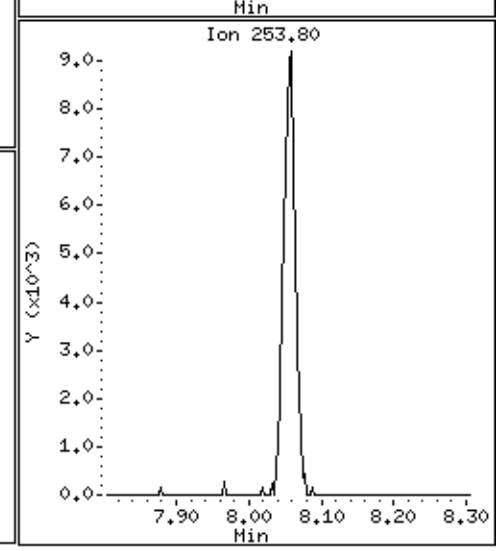












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

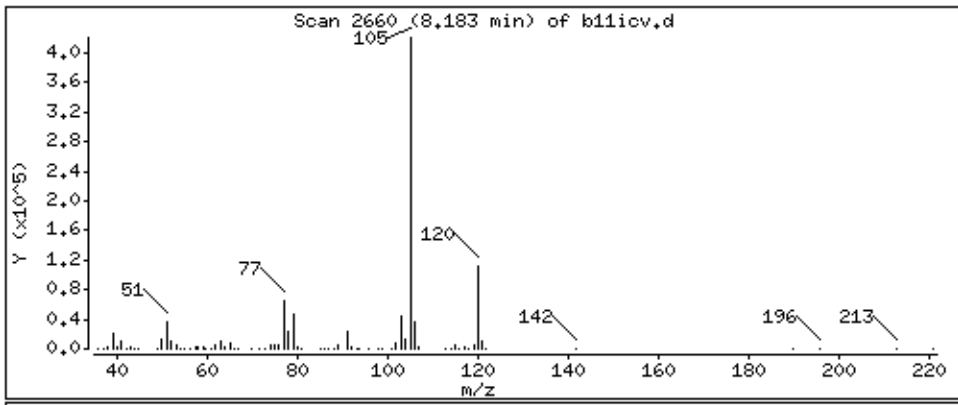
Operator: dae

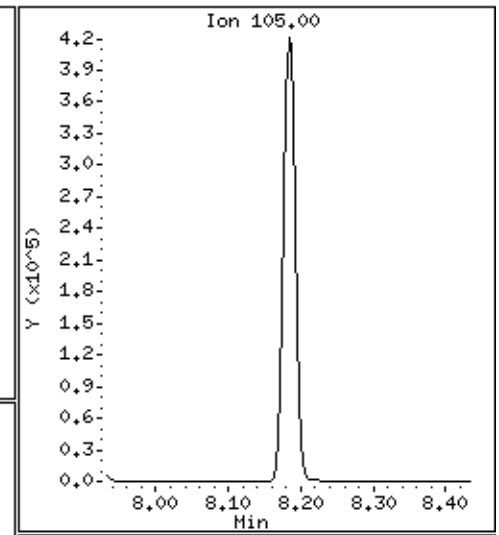
Column phase: DB-624

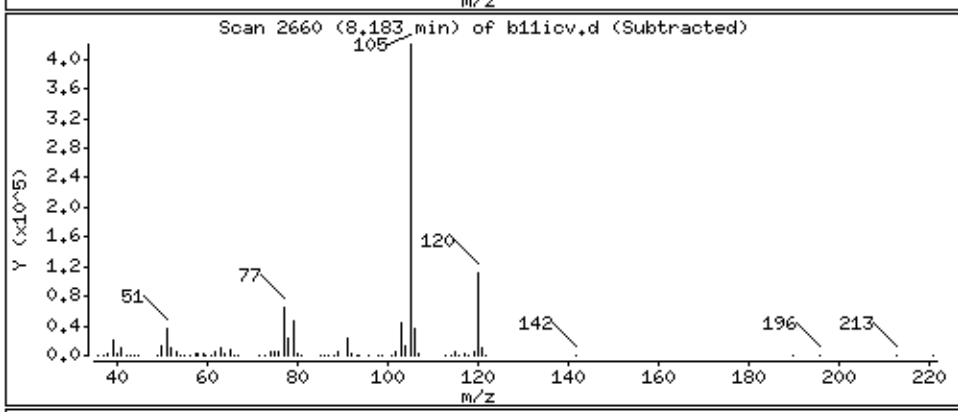
Column diameter: 0.18

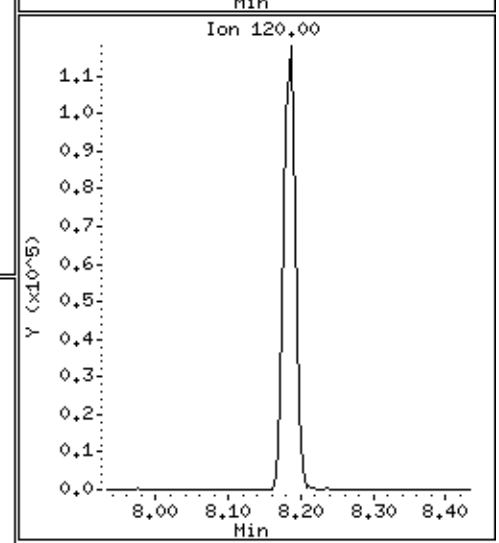
73 Isopropylbenzene

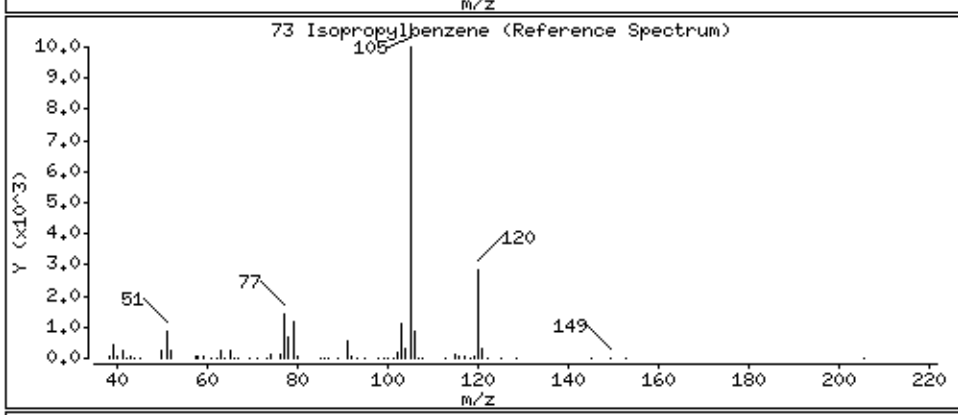
Concentration: 51.3 ppb

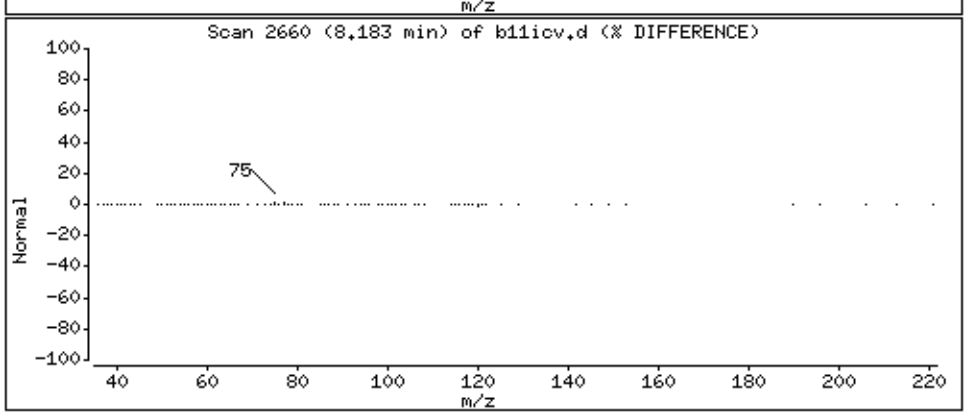












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

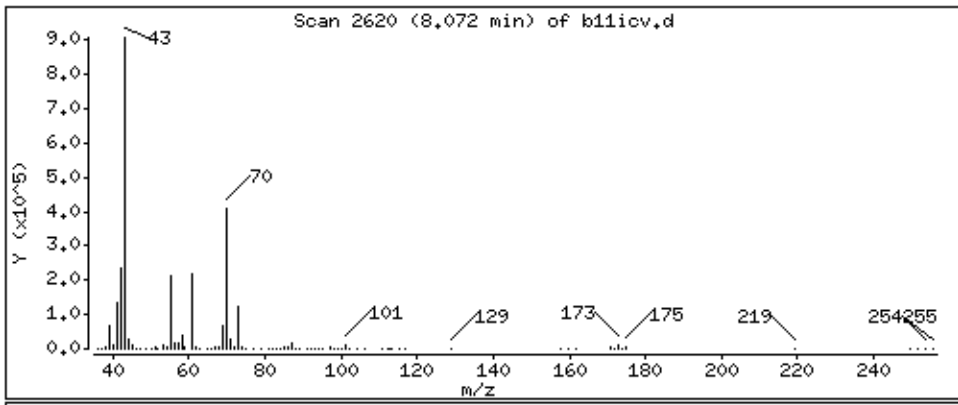
Operator: dae

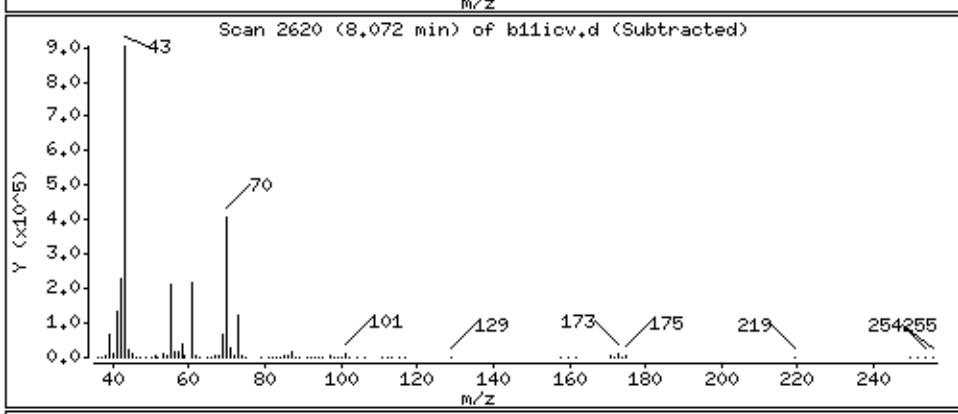
Column phase: DB-624

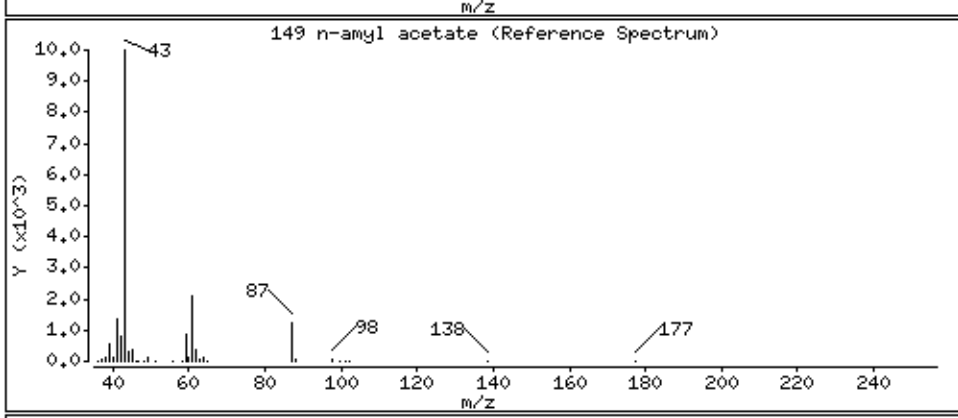
Column diameter: 0.18

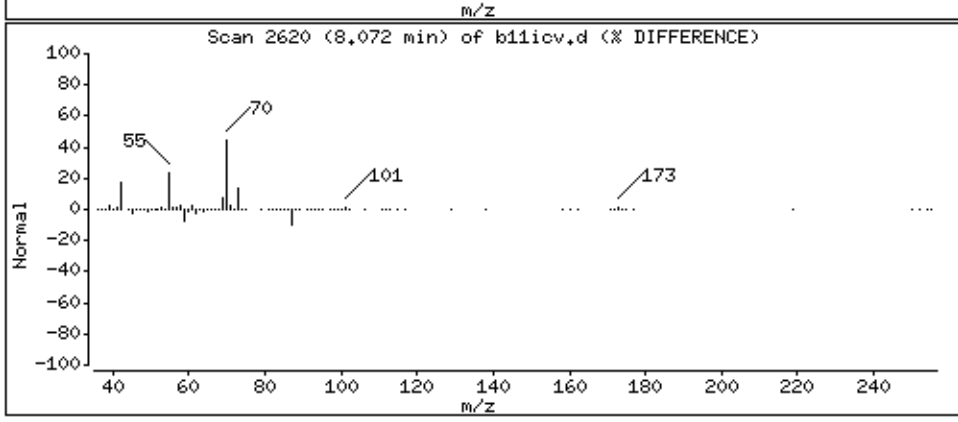
149 n-amyl acetate

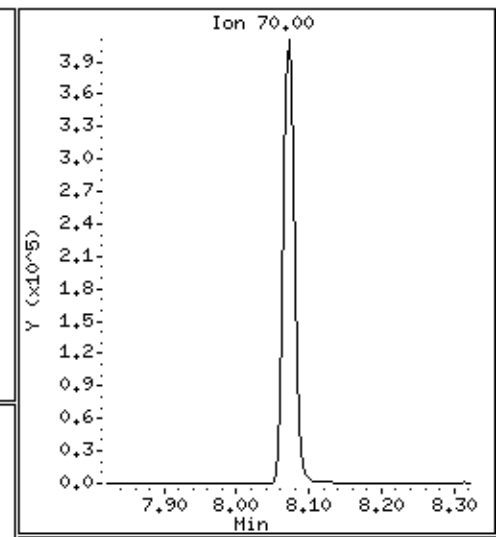
Concentration: 248 ppb

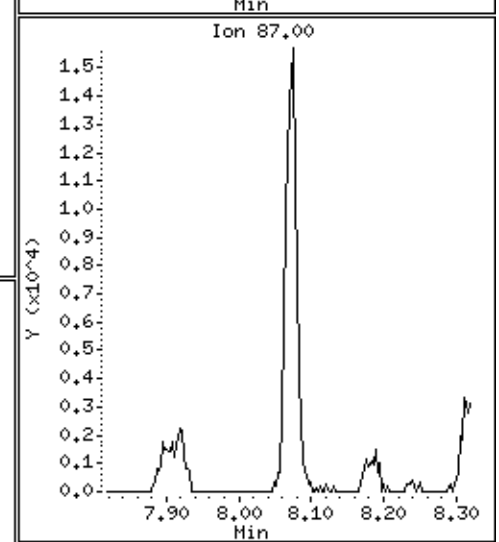


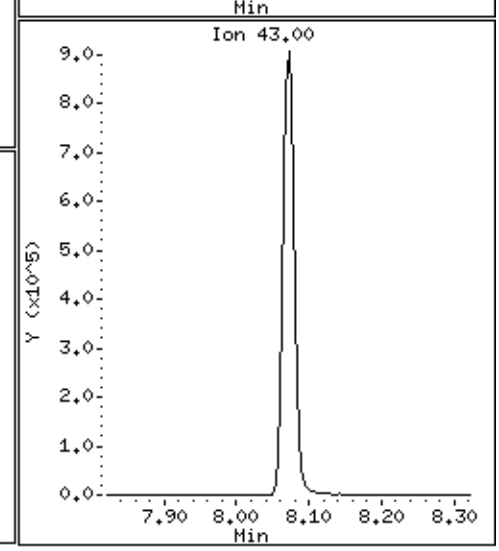












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

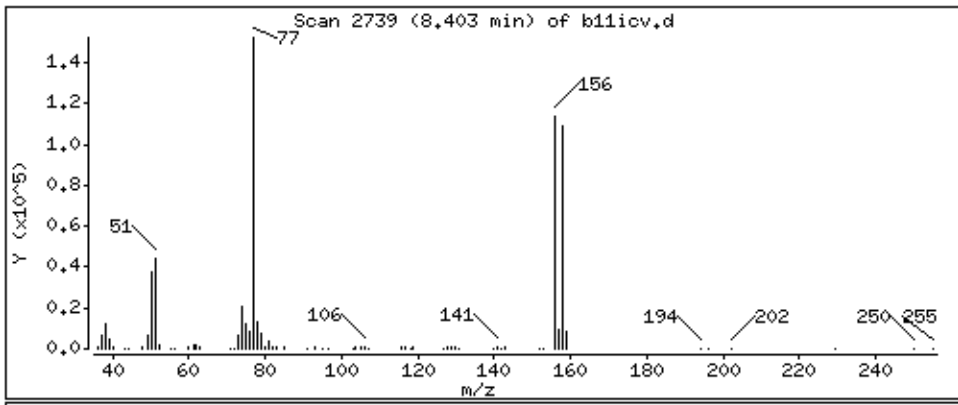
Operator: dae

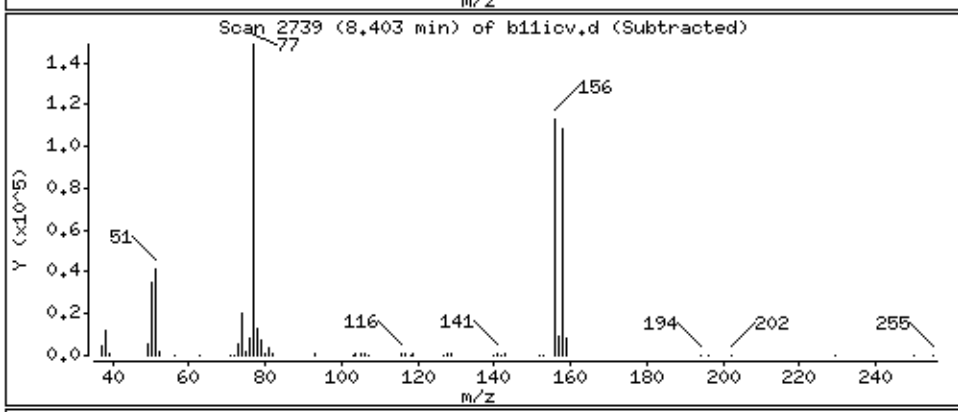
Column phase: DB-624

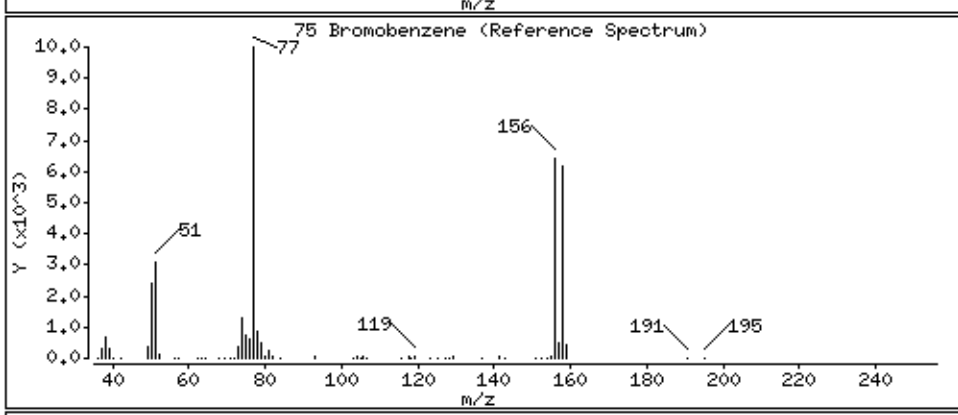
Column diameter: 0.18

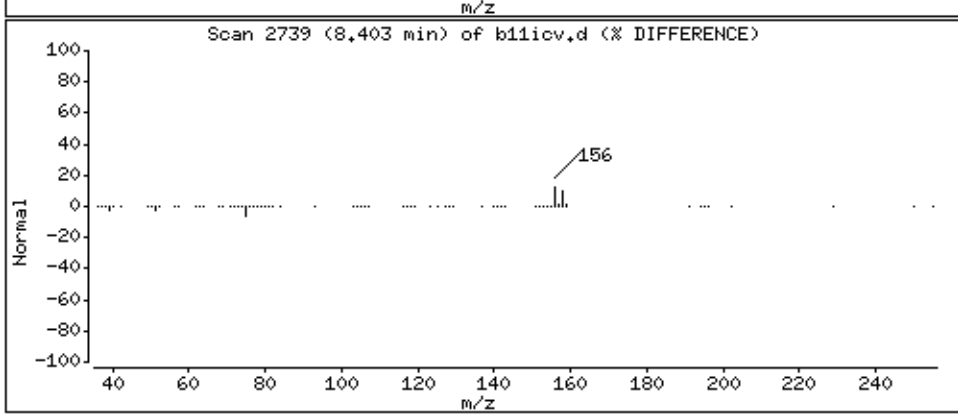
75 Bromobenzene

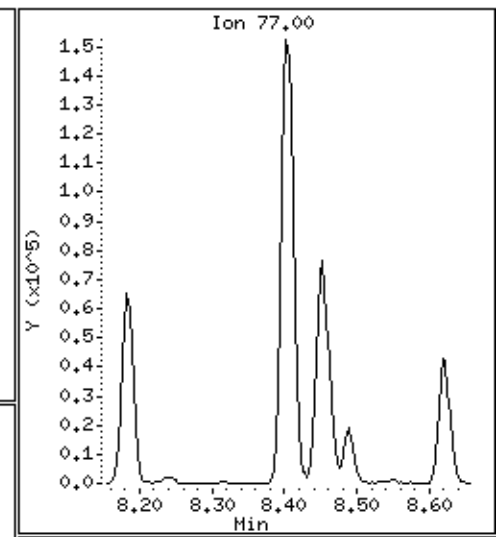
Concentration: 48.0 ppb

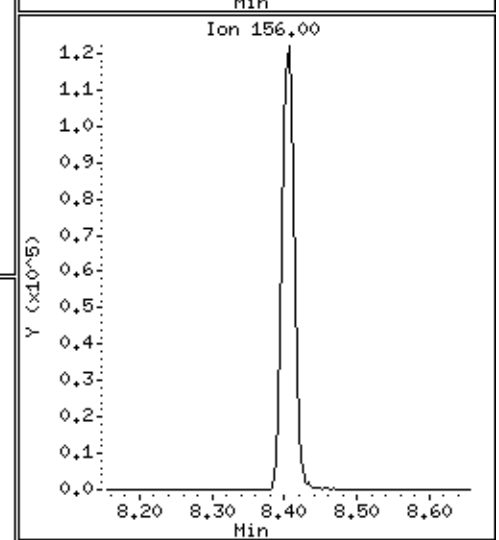


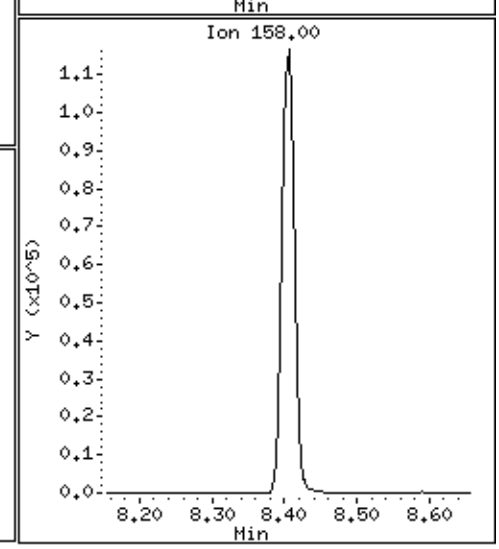












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

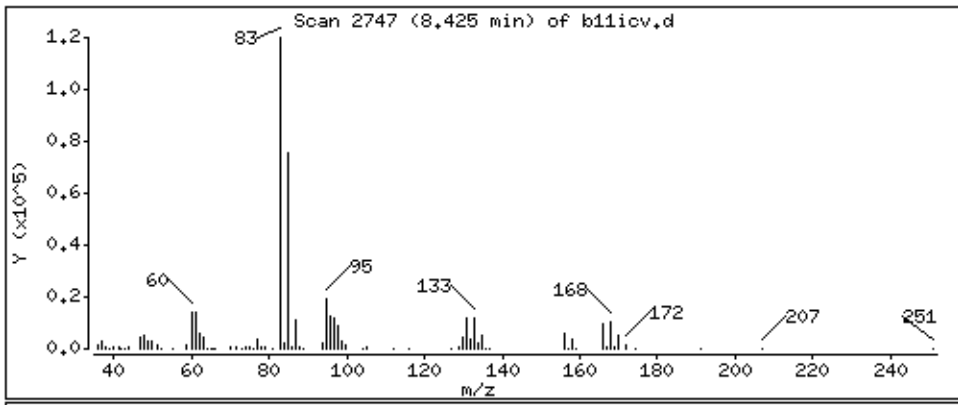
Operator: dae

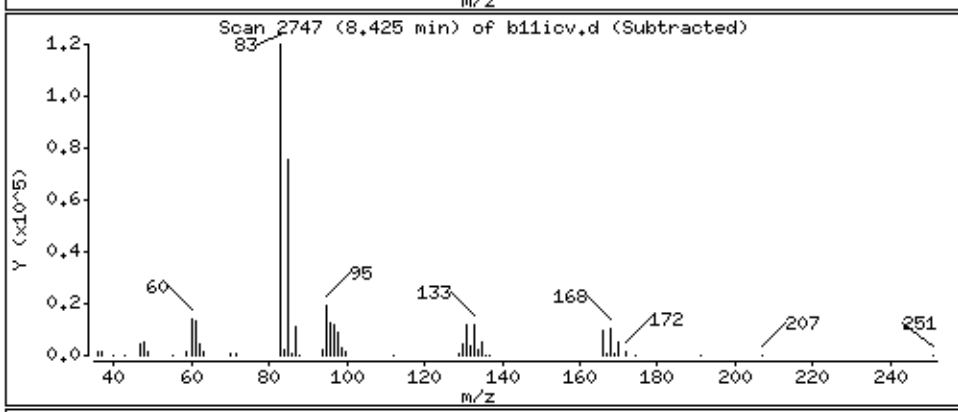
Column phase: DB-624

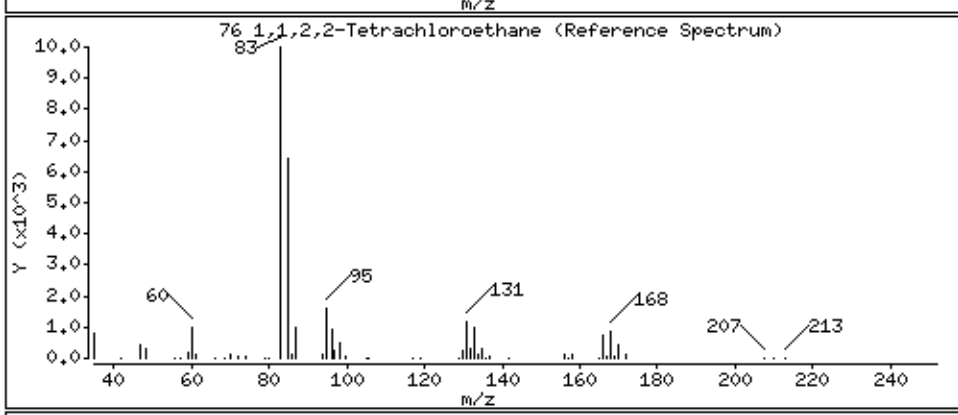
Column diameter: 0.18

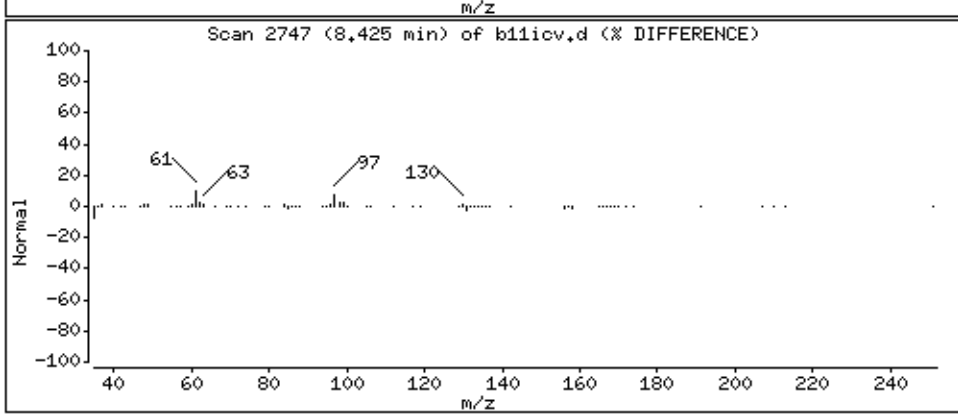
76 1,1,2,2-Tetrachloroethane

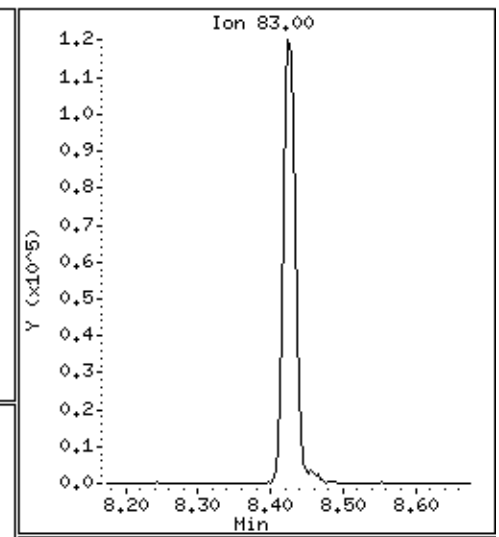
Concentration: 49.8 ppb

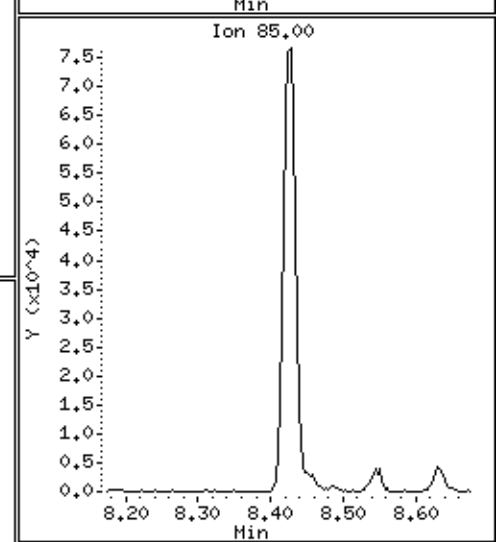


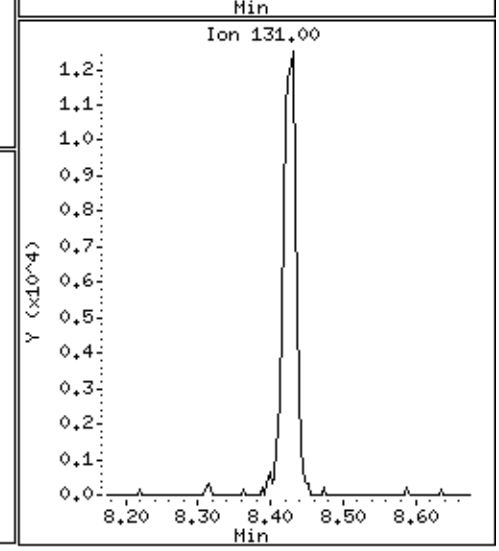












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

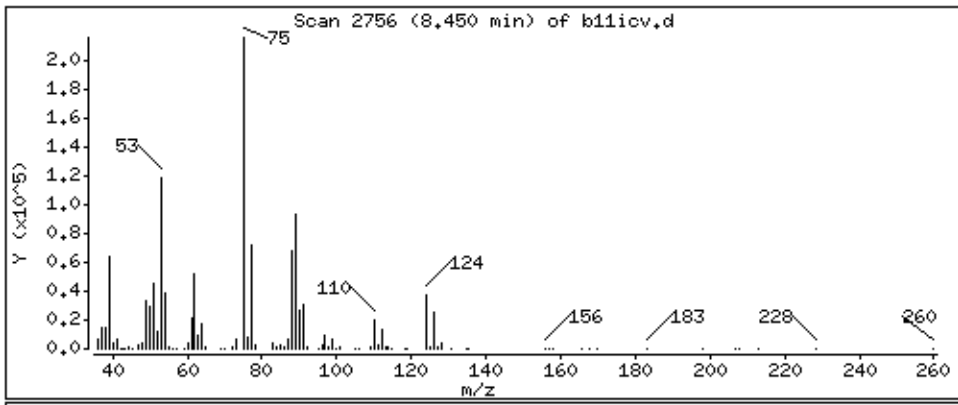
Operator: dae

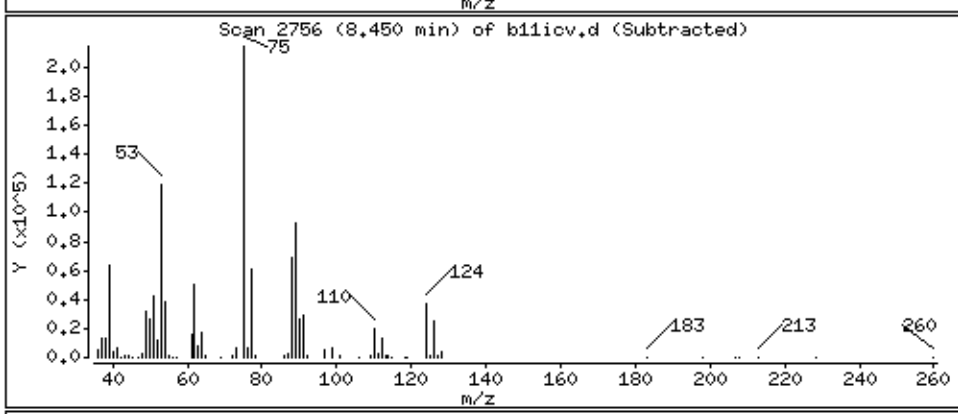
Column phase: DB-624

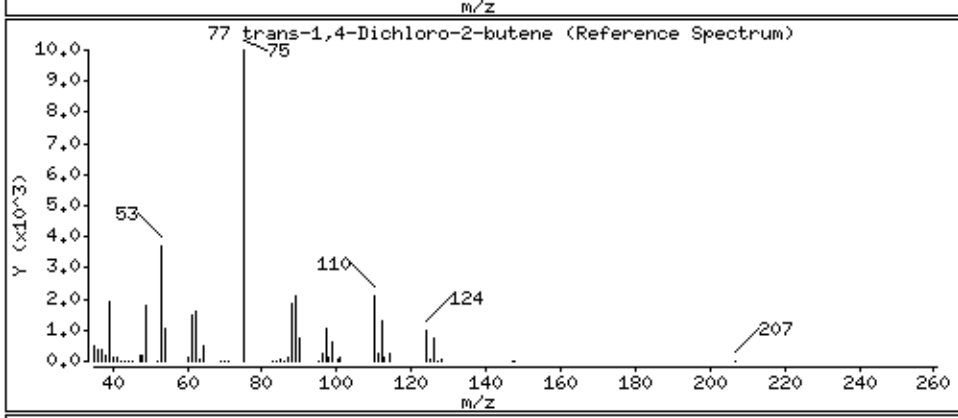
Column diameter: 0.18

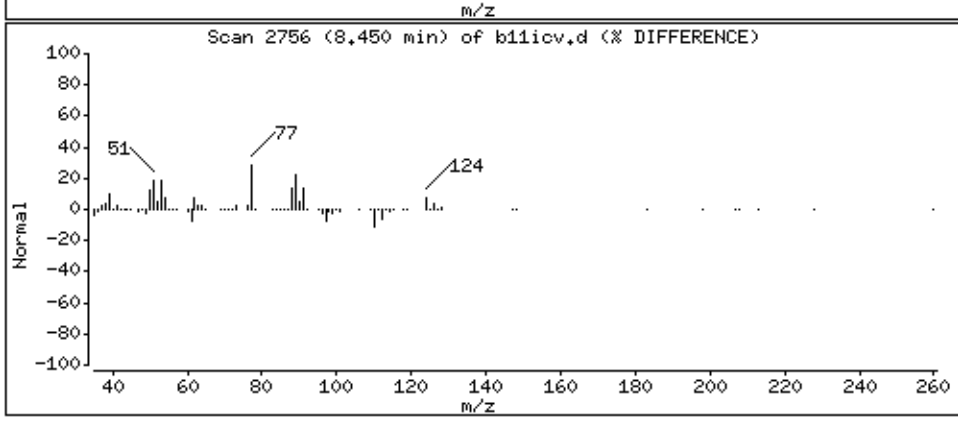
77 trans-1,4-Dichloro-2-butene

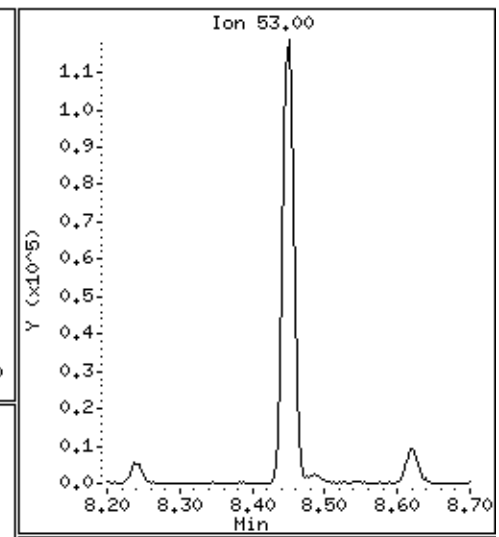
Concentration: 176 ppb

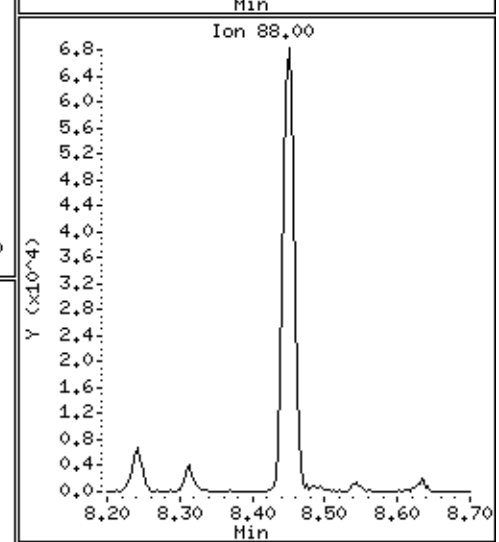


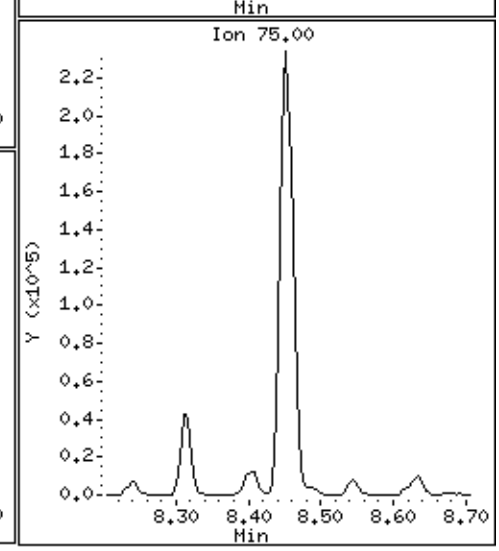












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

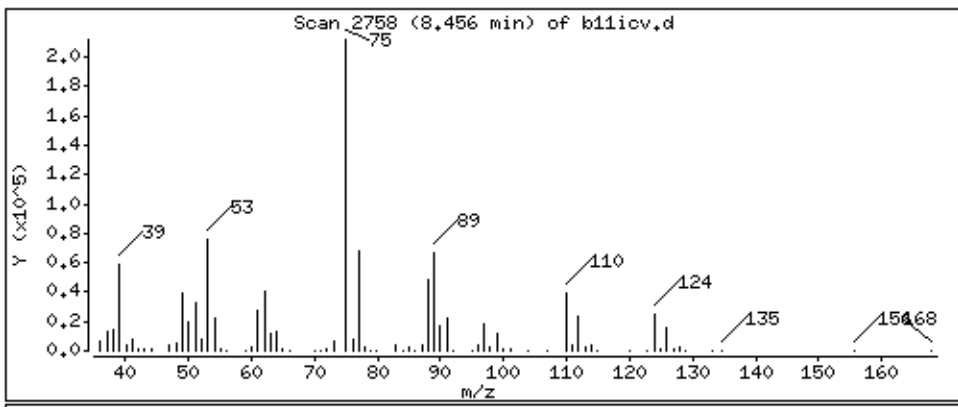
Operator: dae

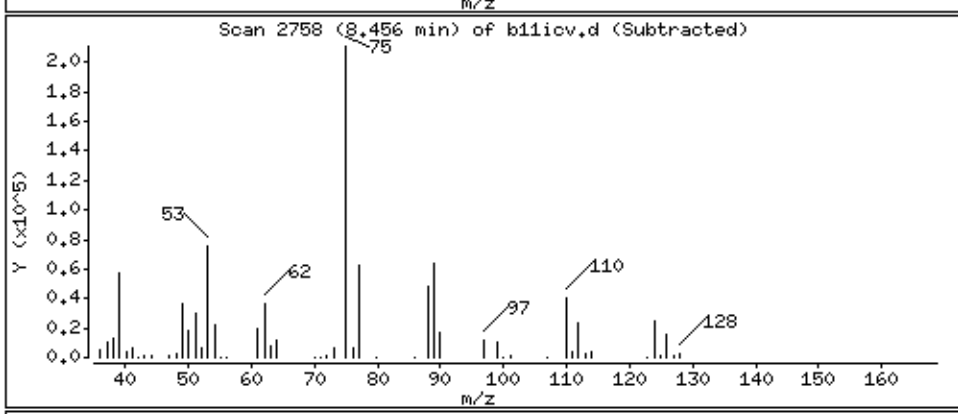
Column phase: DB-624

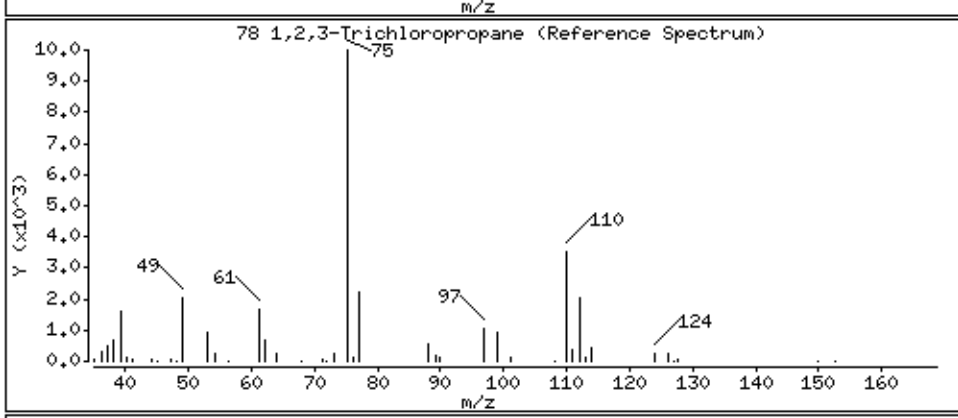
Column diameter: 0.18

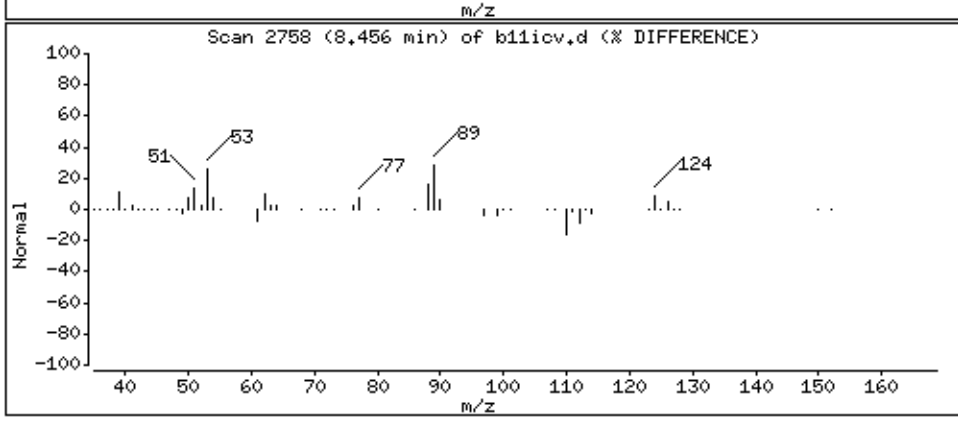
78 1,2,3-Trichloropropane

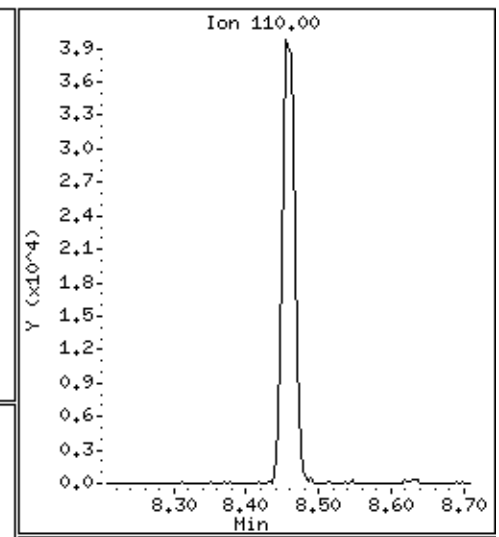
Concentration: 50.8 ppb

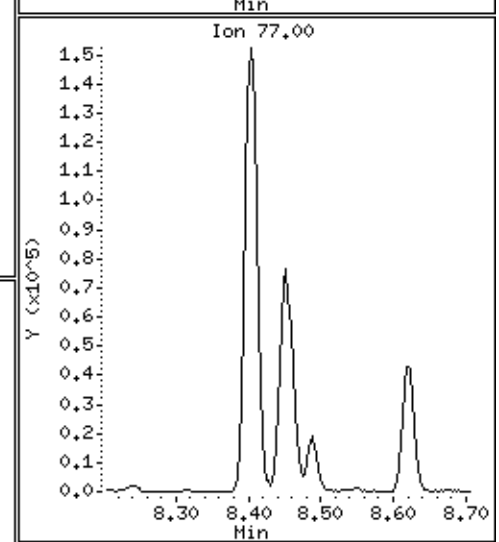


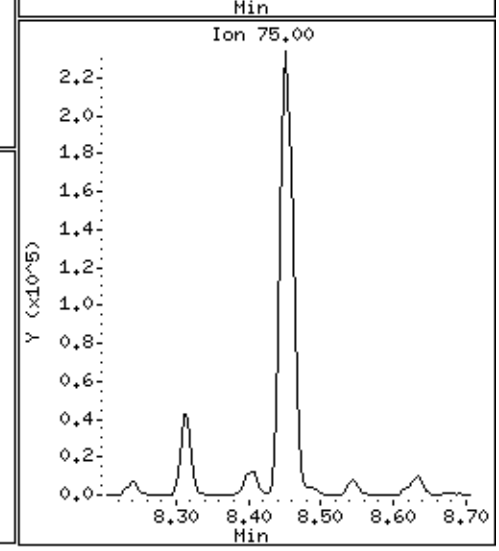












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

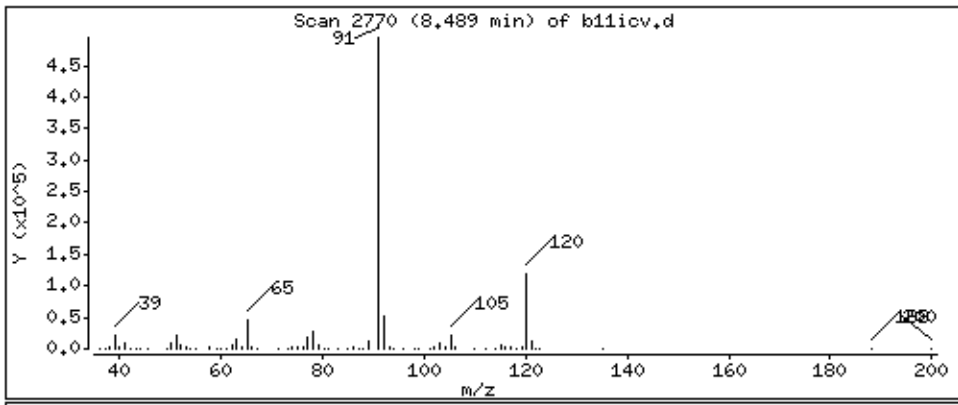
Operator: dae

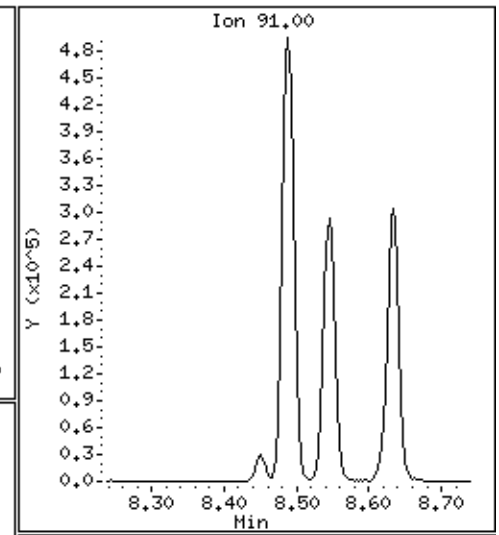
Column phase: DB-624

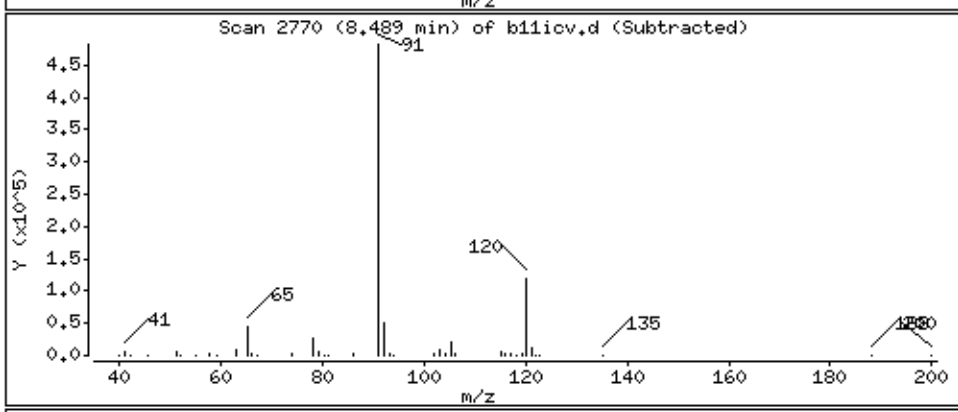
Column diameter: 0.18

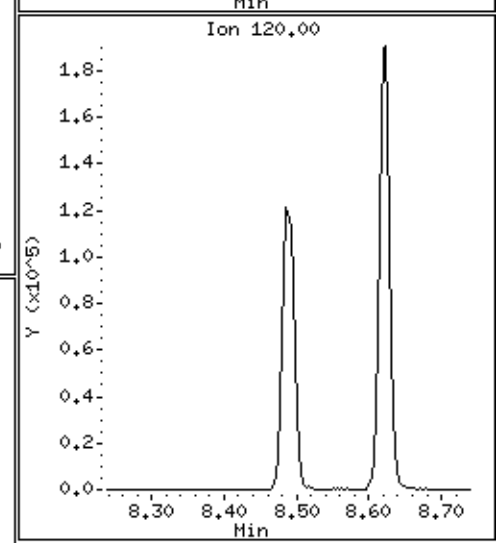
79 n-Propylbenzene

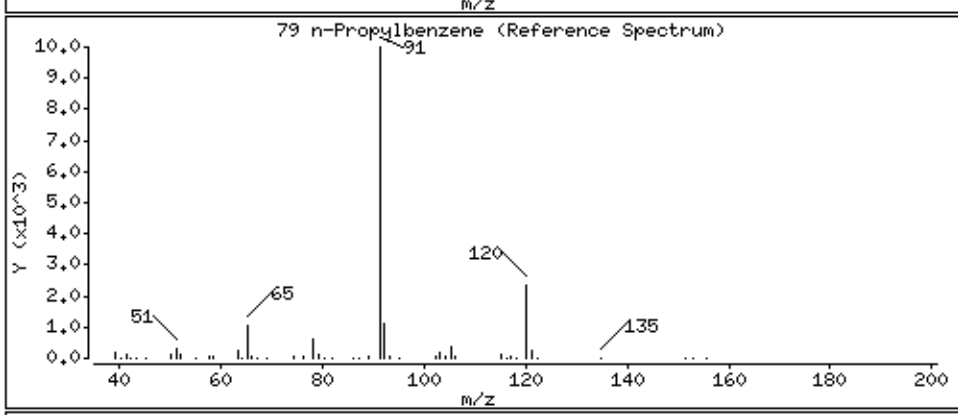
Concentration: 53.8 ppb

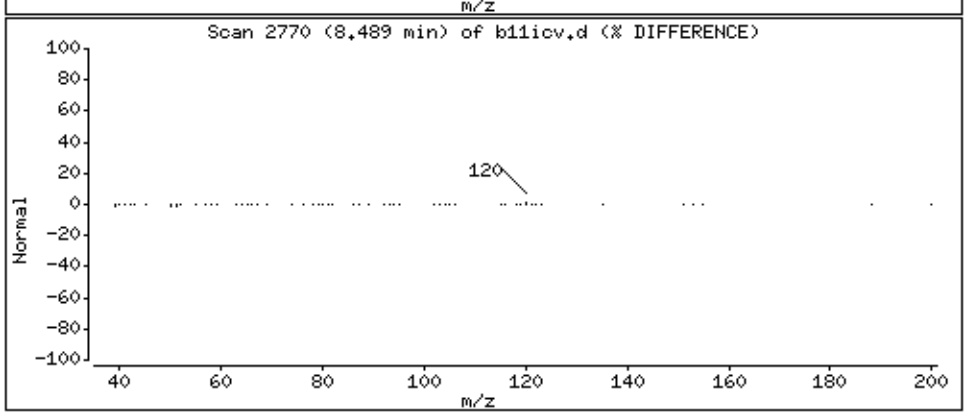












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

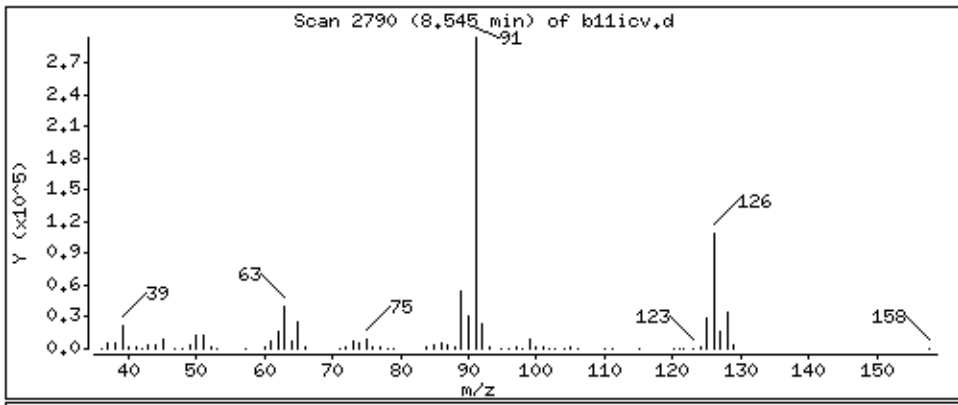
Operator: dae

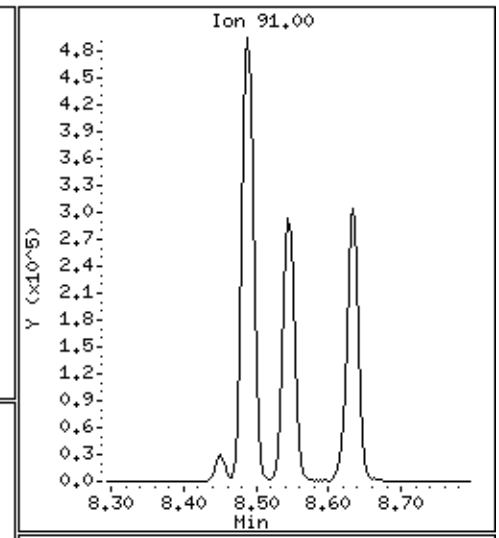
Column phase: DB-624

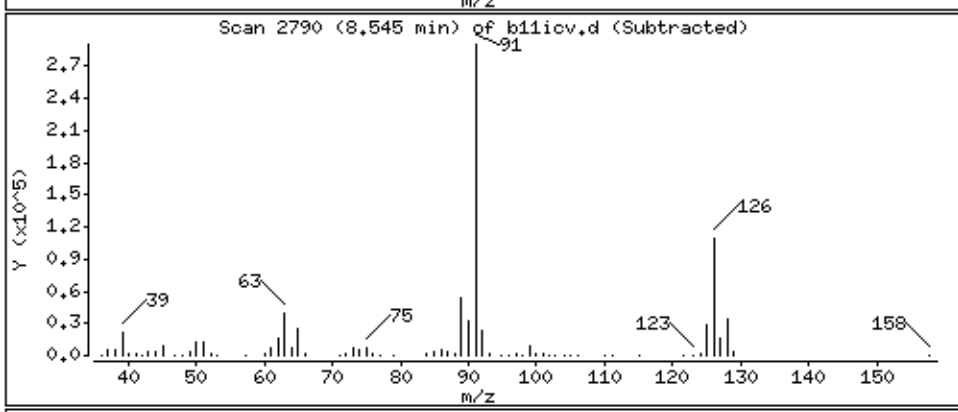
Column diameter: 0.18

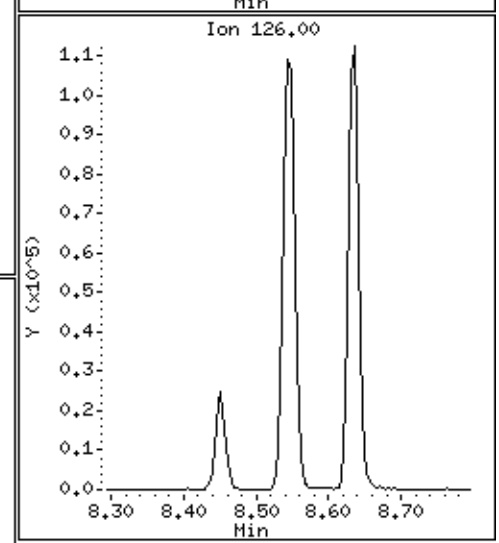
80 2-Chlorotoluene

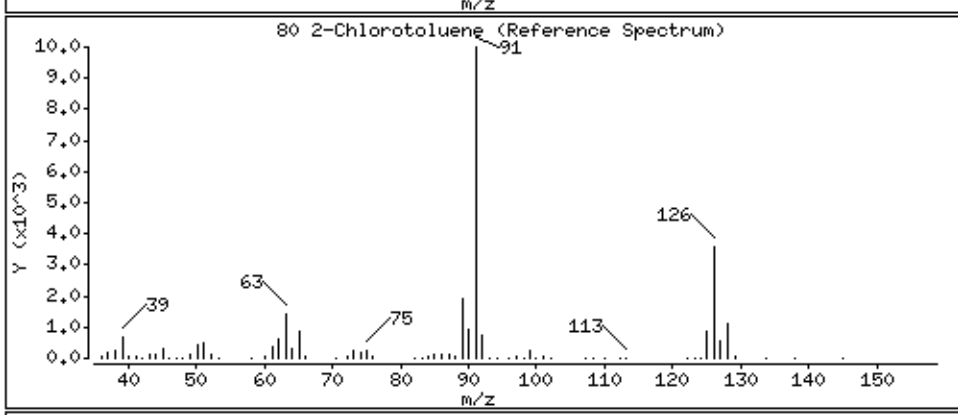
Concentration: 49.5 ppb

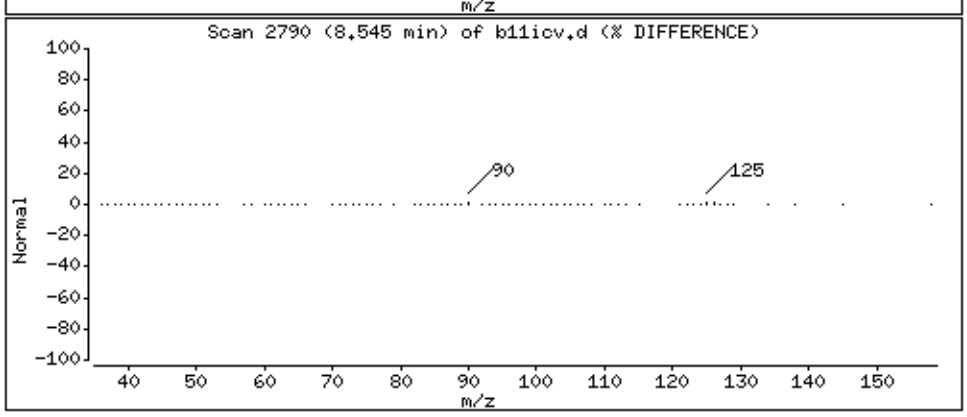












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

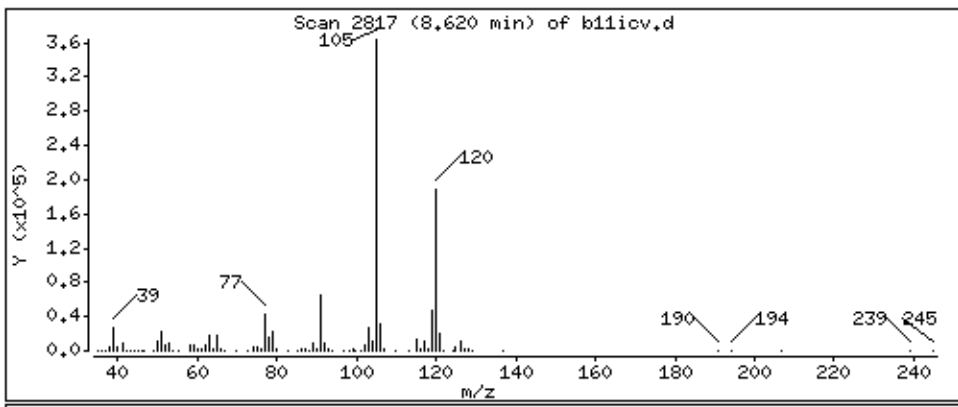
Operator: dae

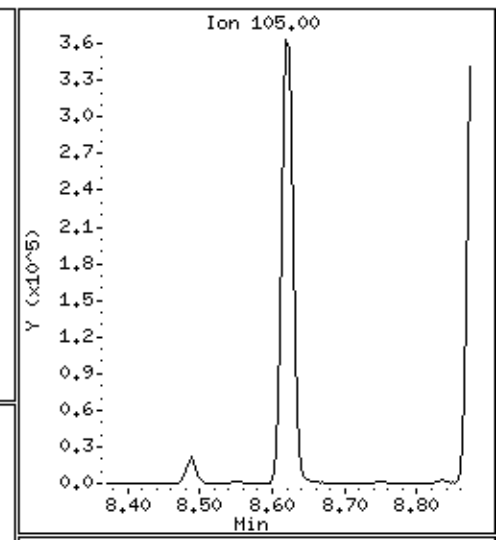
Column phase: DB-624

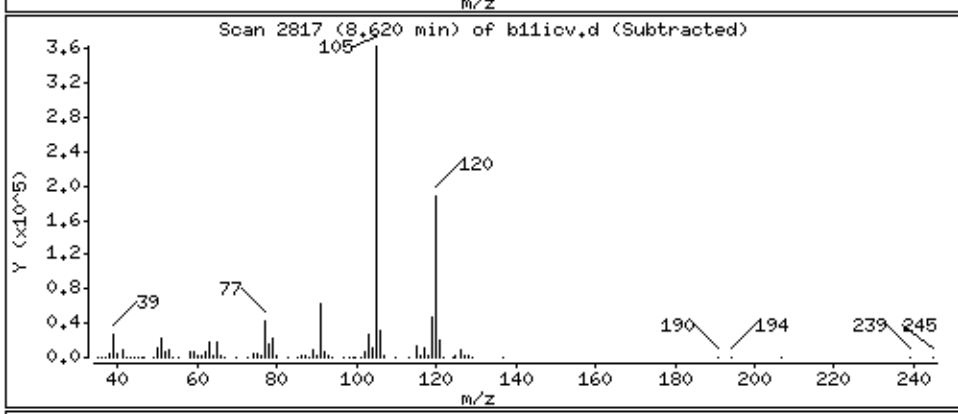
Column diameter: 0.18

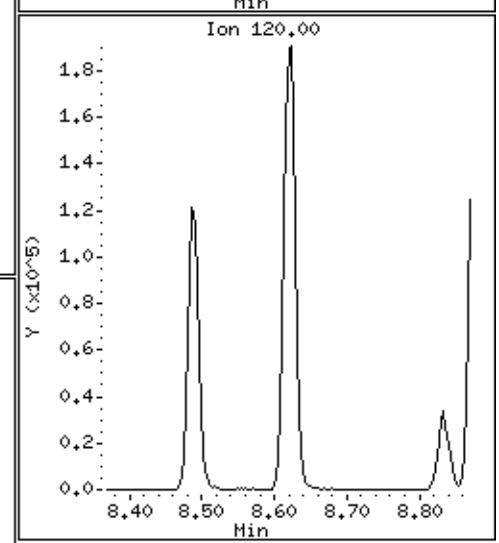
81 1,3,5-Trimethylbenzene

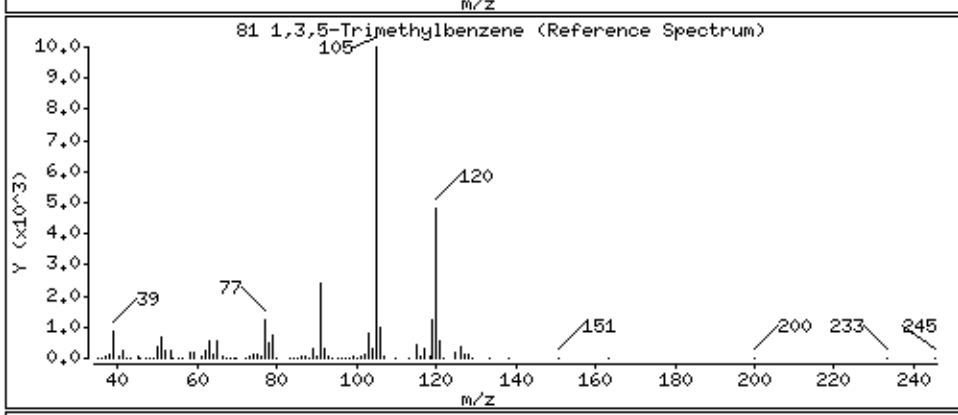
Concentration: 49.4 ppb

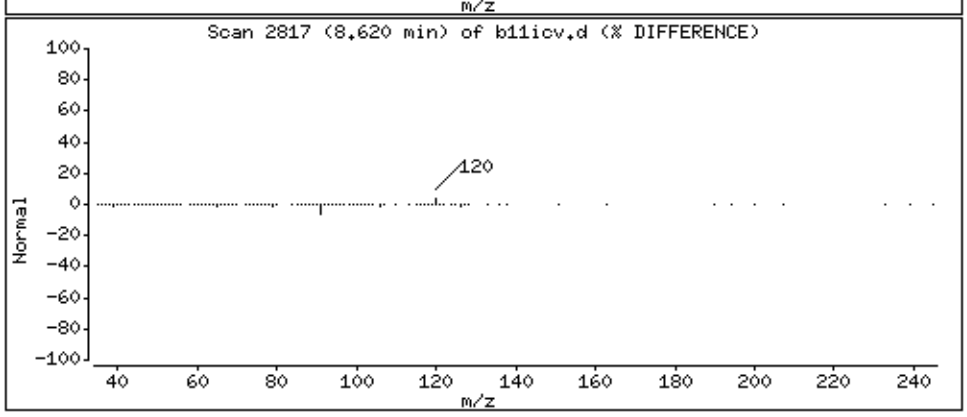












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

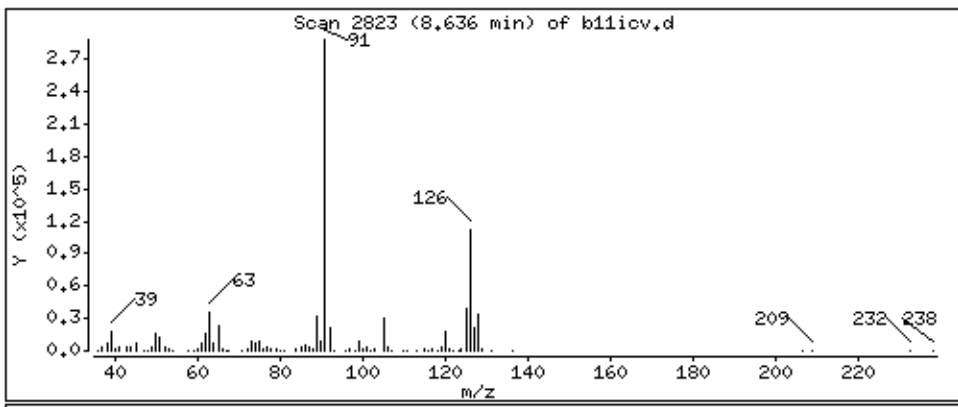
Operator: dae

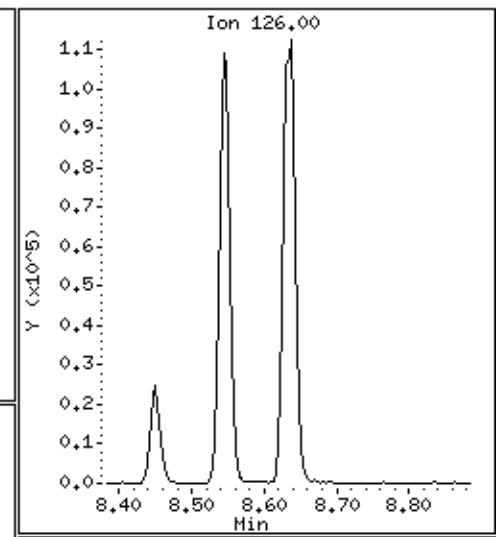
Column phase: DB-624

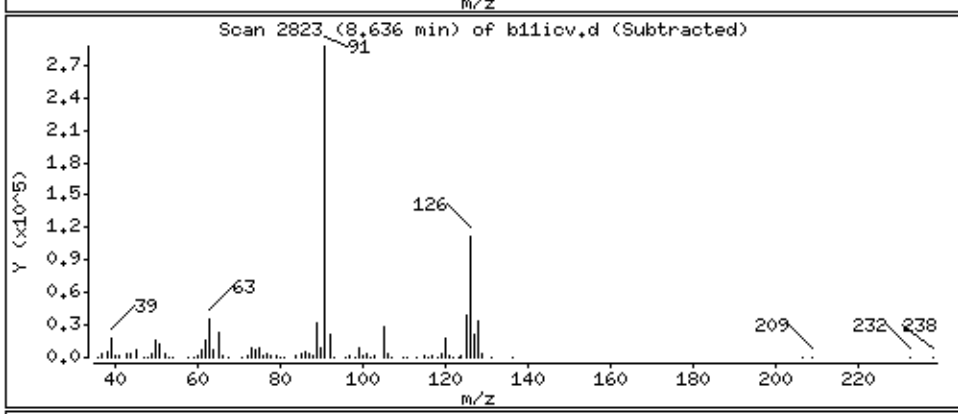
Column diameter: 0.18

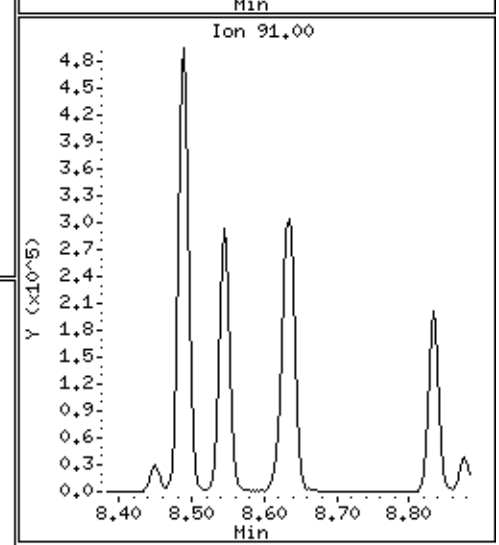
82 4-Chlorotoluene

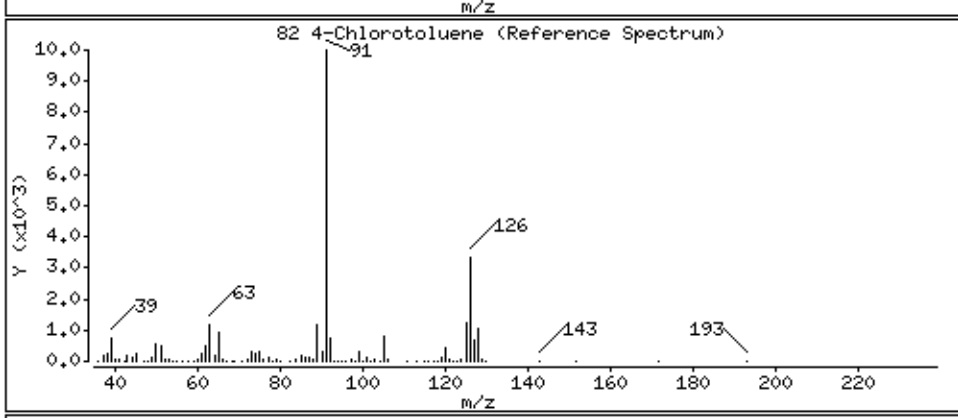
Concentration: 50.0 ppb

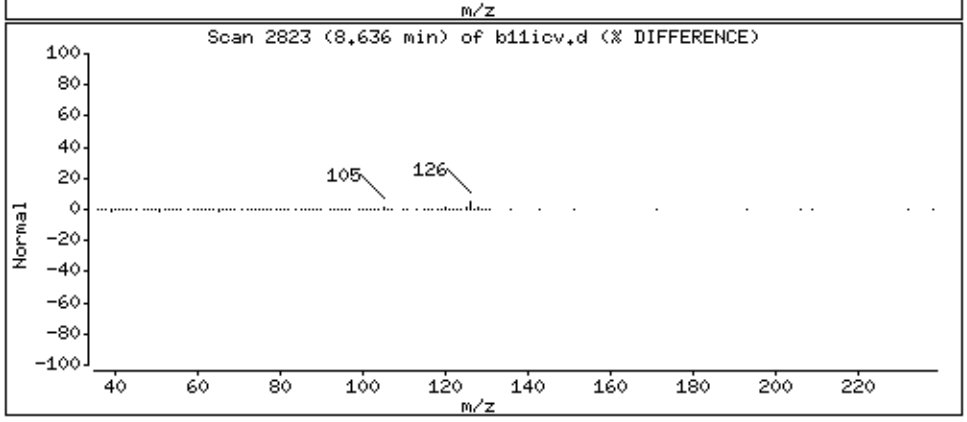












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

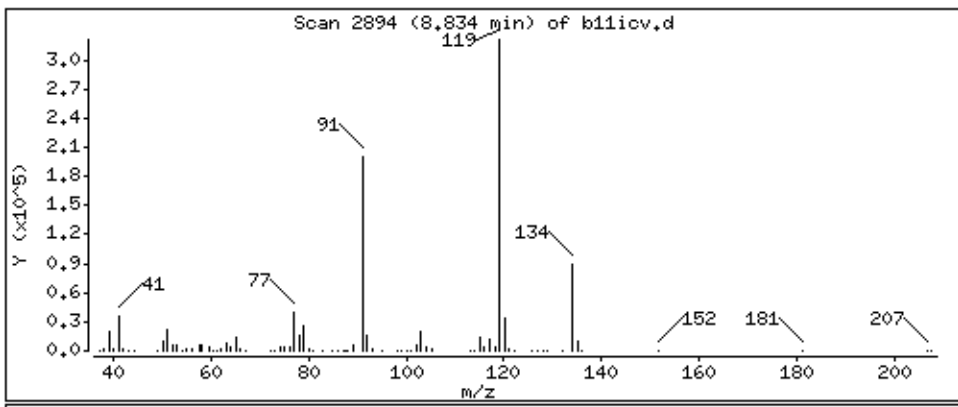
Operator: dae

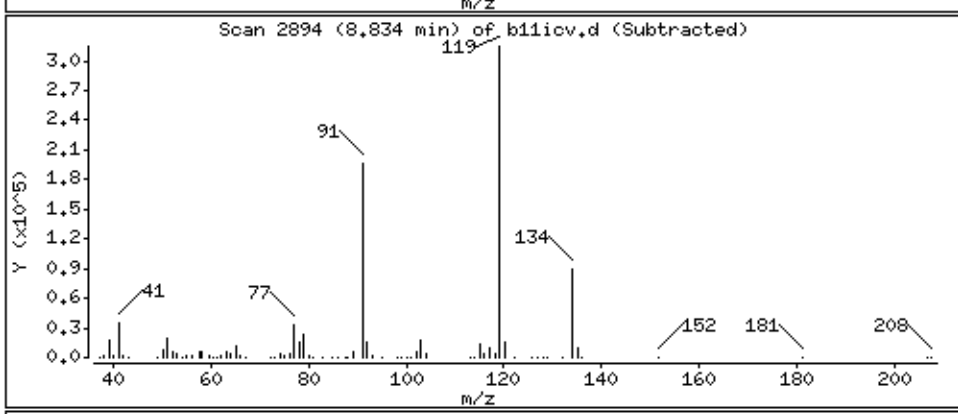
Column phase: DB-624

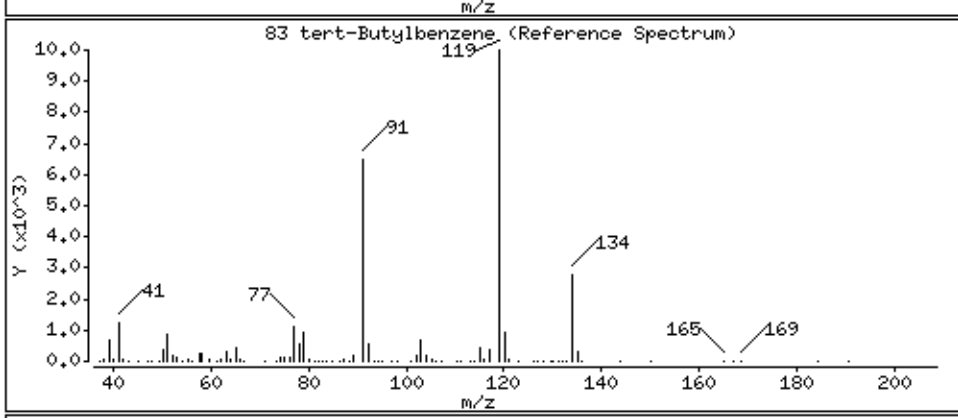
Column diameter: 0.18

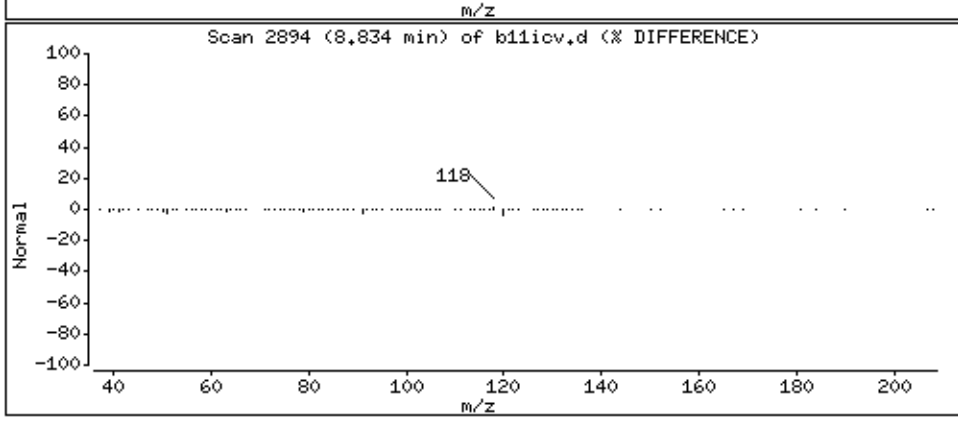
83 tert-Butylbenzene

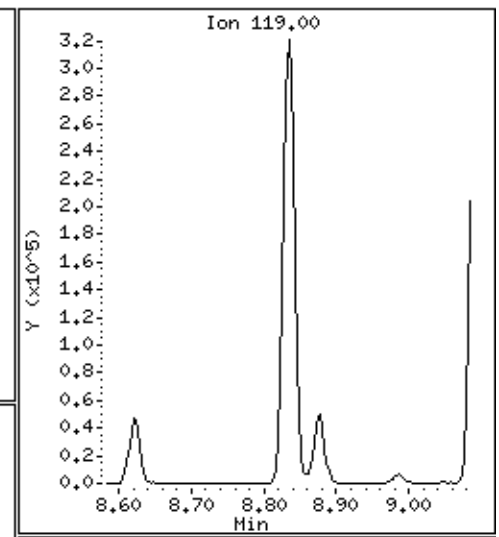
Concentration: 40.6 ppb

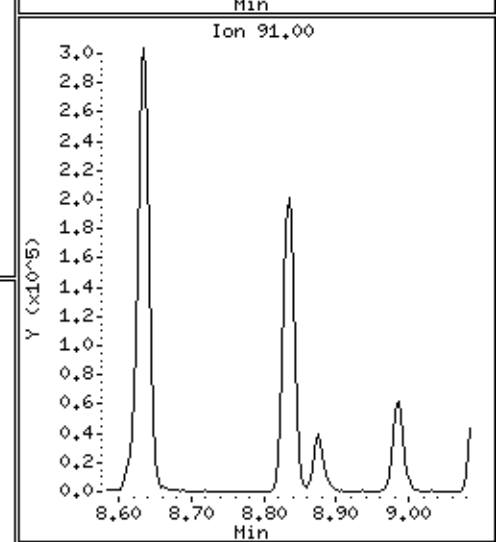


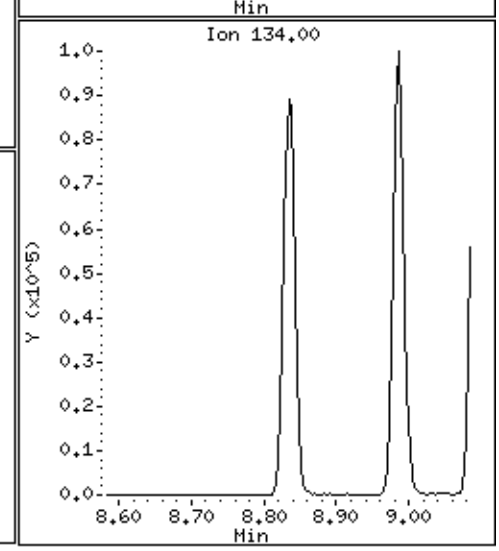












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

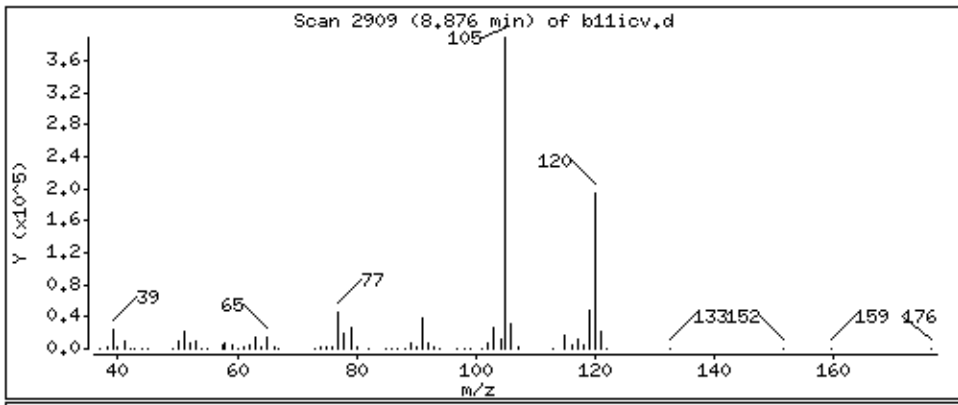
Client ID: 8260-ICV,140434:5 Instrument: 50mv2b.i

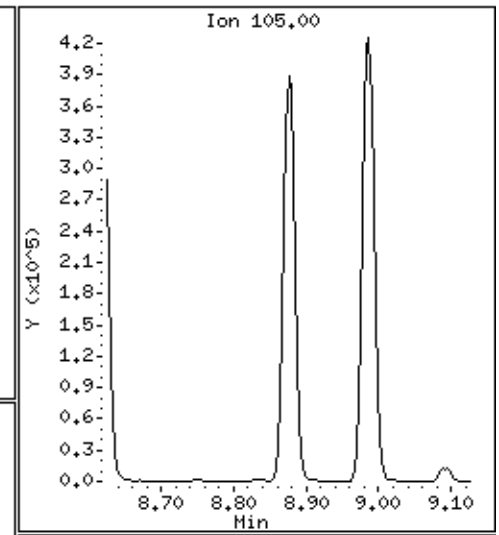
Sample Info: 8260-ICV,140434:5

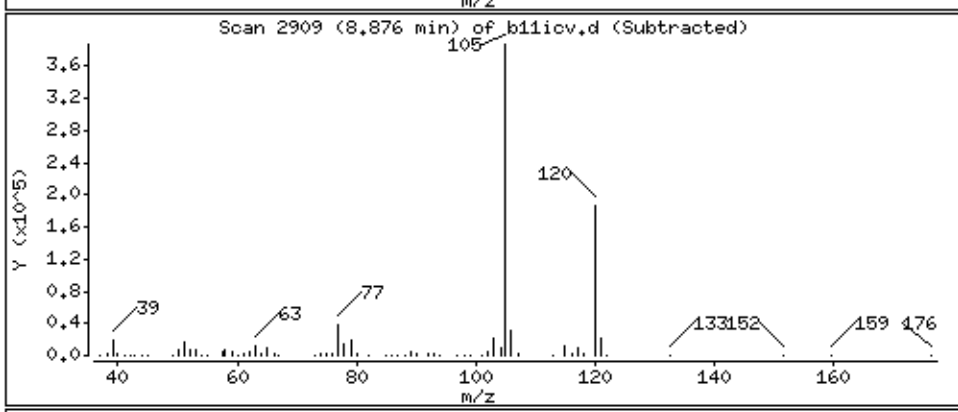
Purge Volume: 5.0 Operator: dae

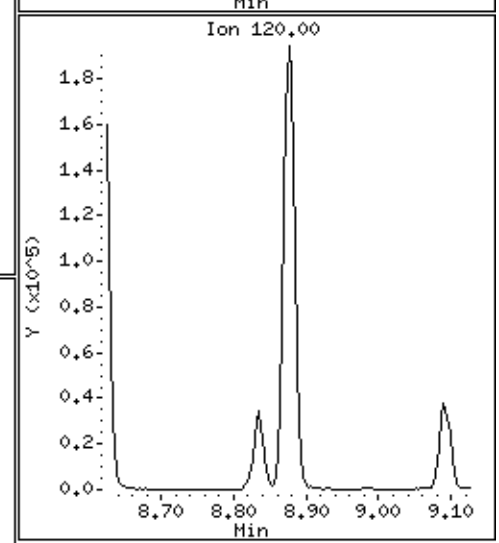
Column phase: DB-624 Column diameter: 0.18

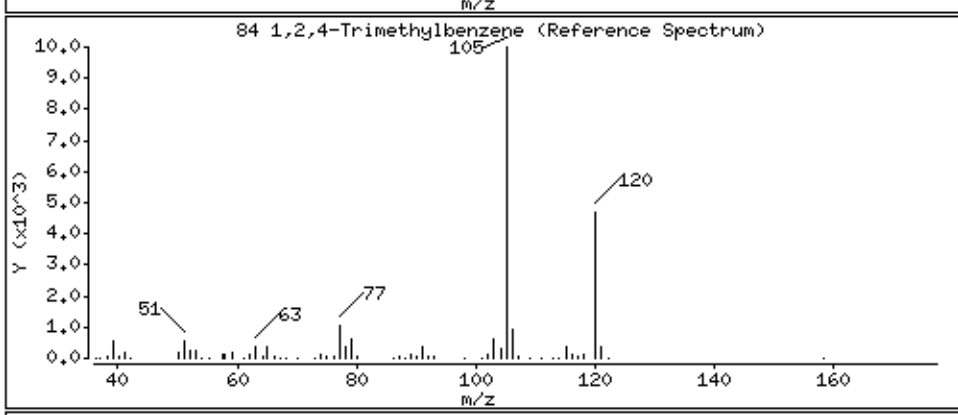
84 1,2,4-Trimethylbenzene Concentration: 51.0 ppb

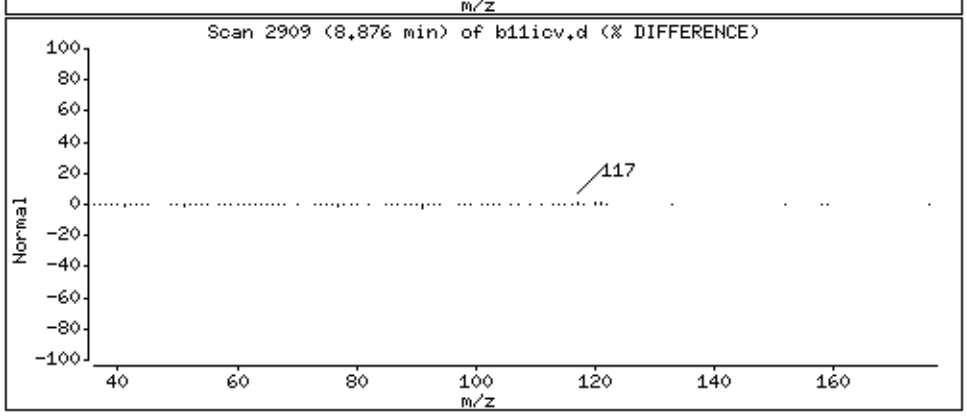












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

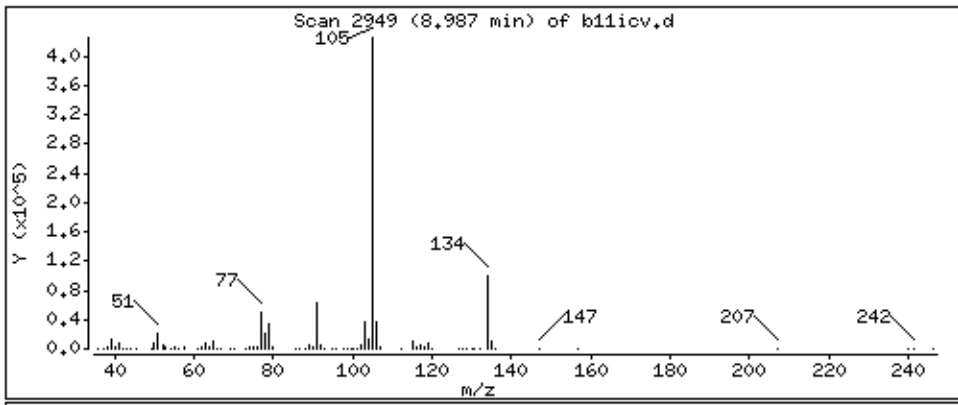
Operator: dae

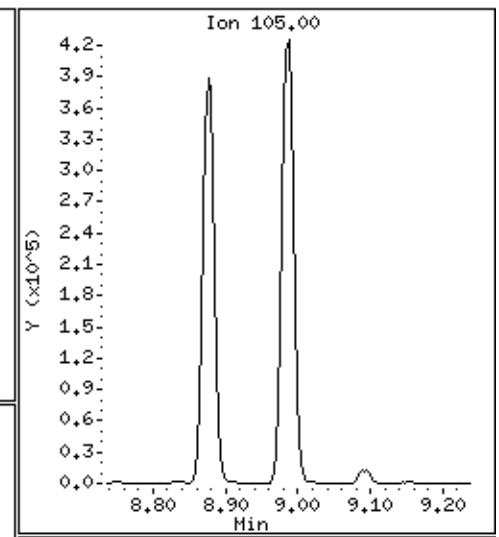
Column phase: DB-624

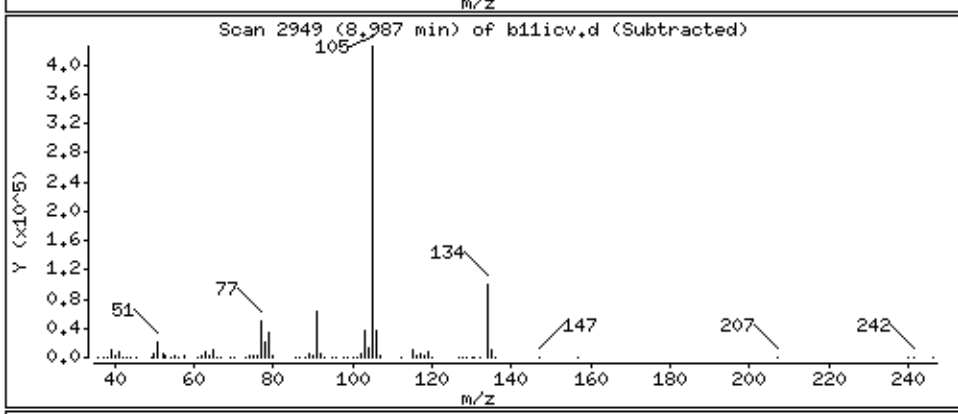
Column diameter: 0.18

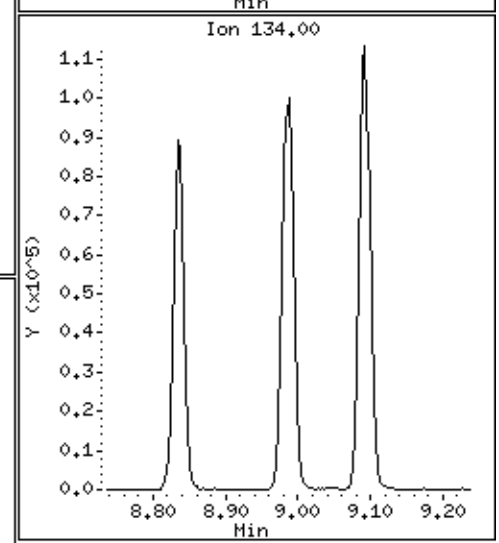
85 sec-Butylbenzene

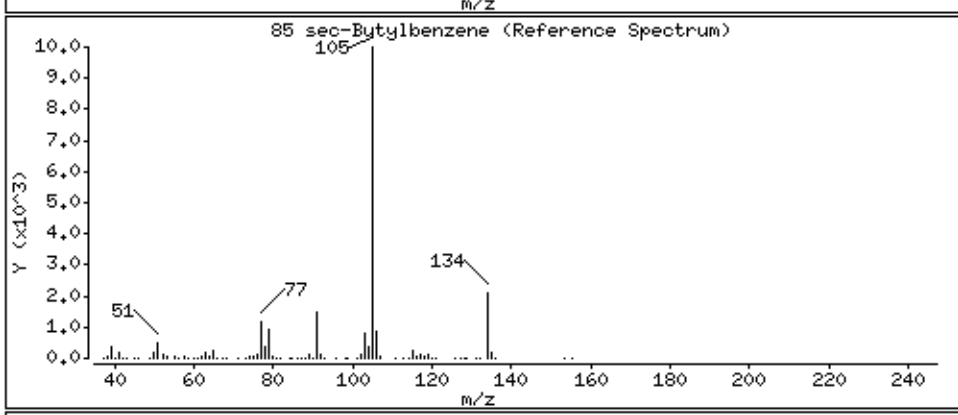
Concentration: 51.7 ppb

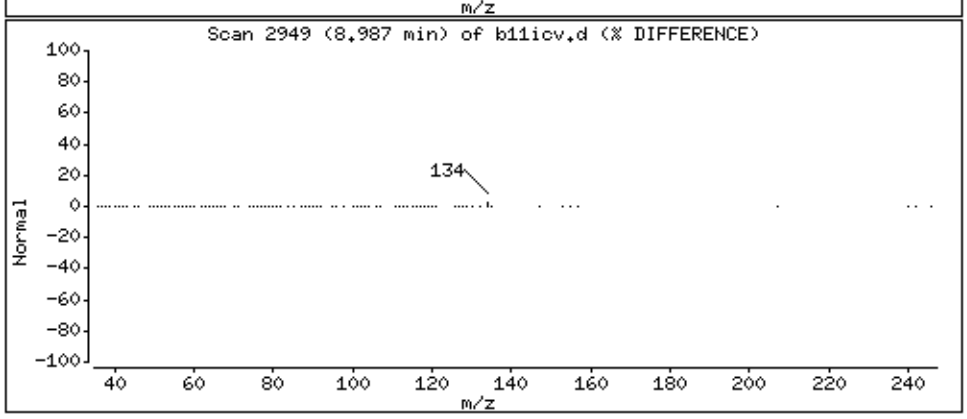












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

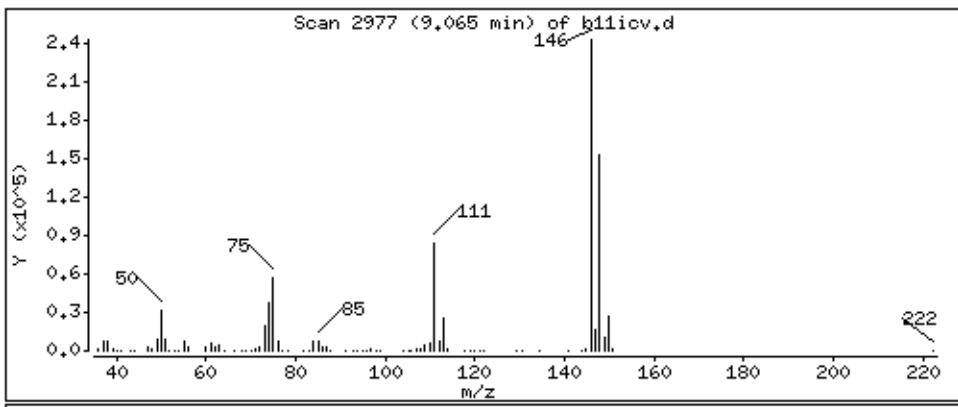
Operator: dae

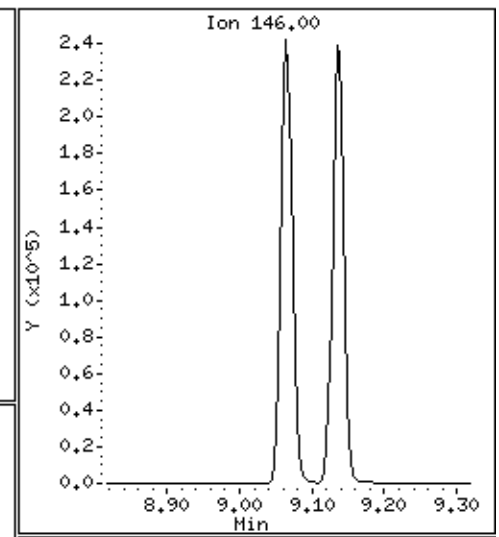
Column phase: DB-624

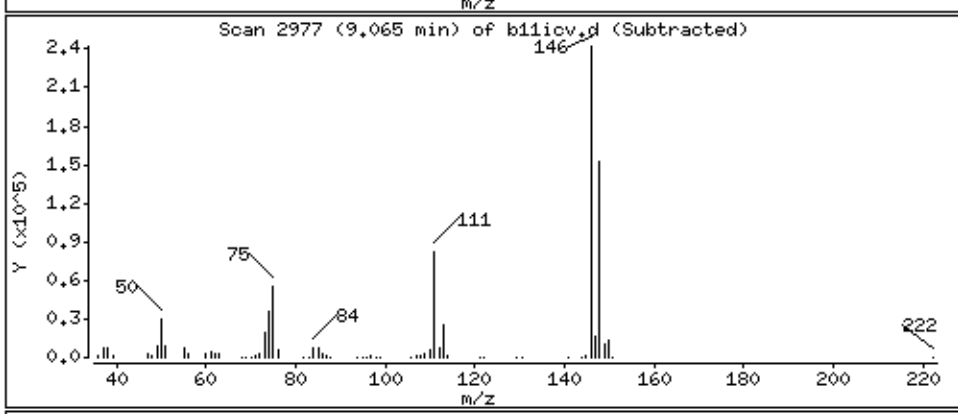
Column diameter: 0.18

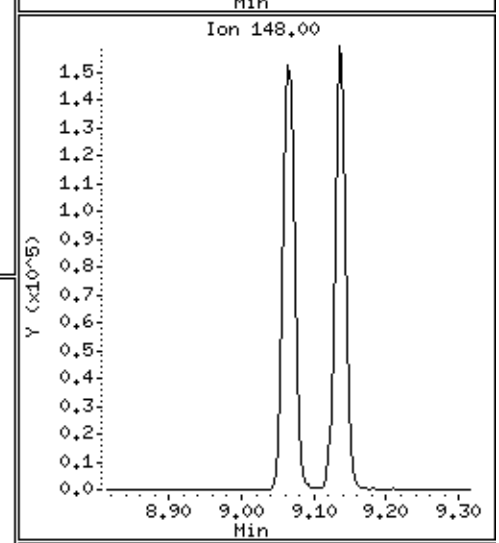
86 1,3-Dichlorobenzene

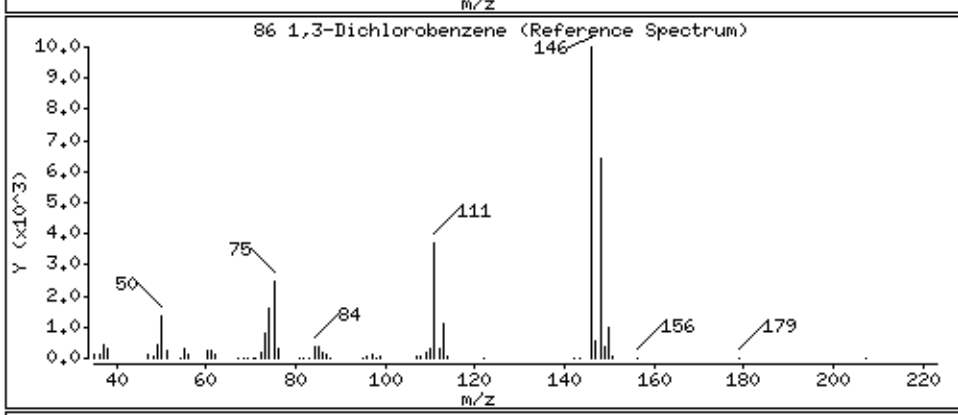
Concentration: 52.7 ppb

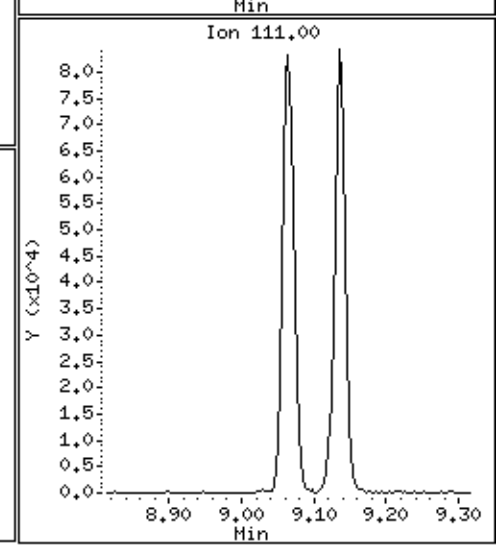


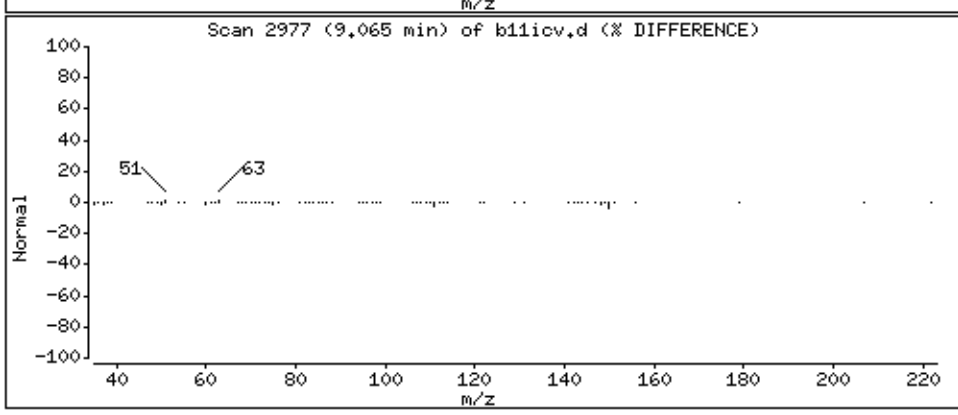












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

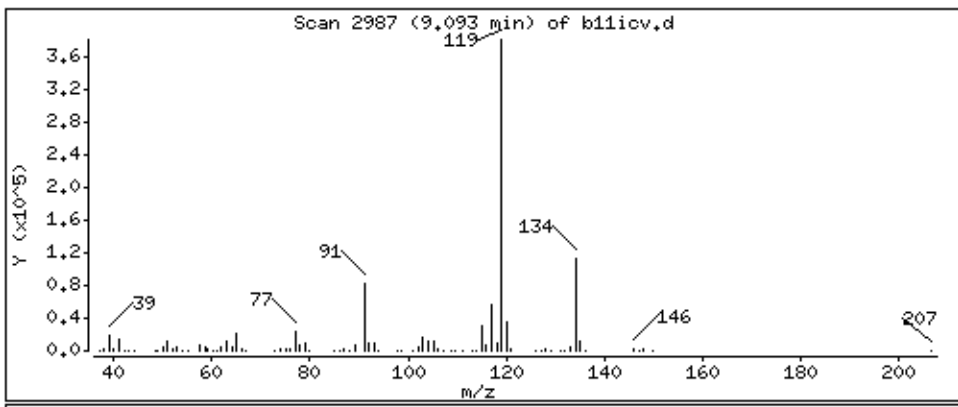
Operator: dae

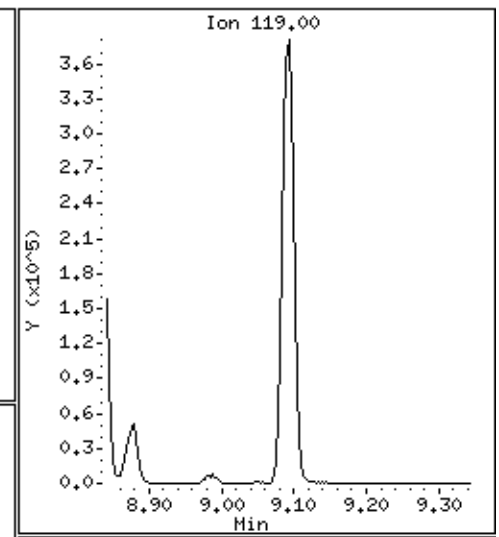
Column phase: DB-624

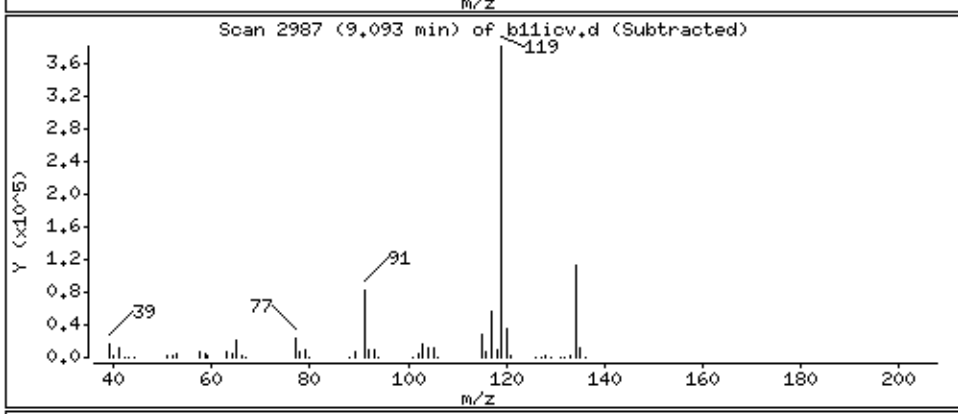
Column diameter: 0.18

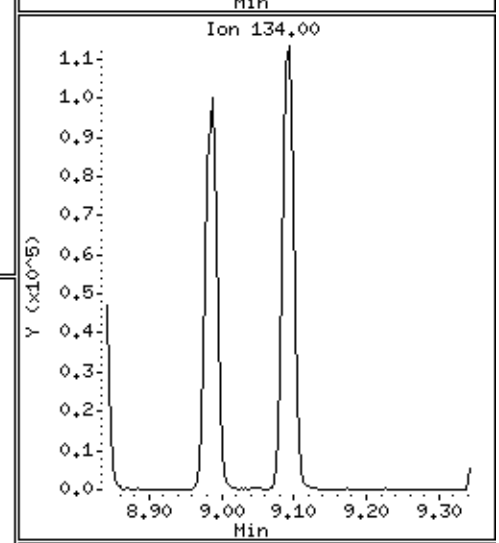
87 p-Isopropyltoluene

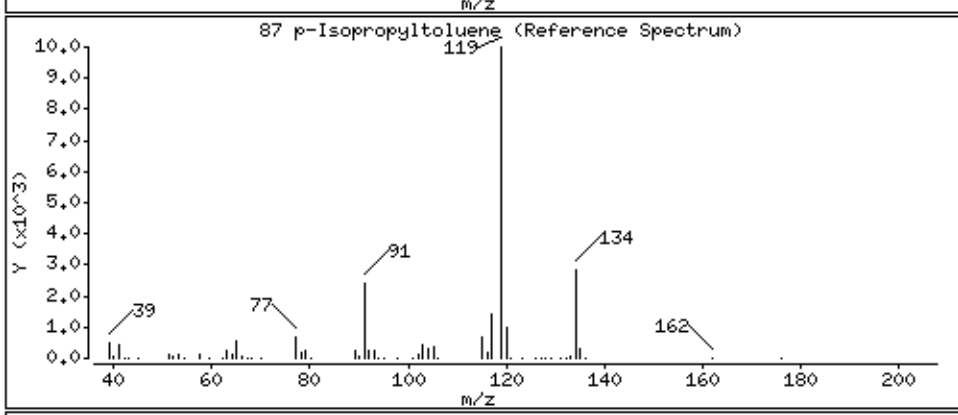
Concentration: 52.0 ppb

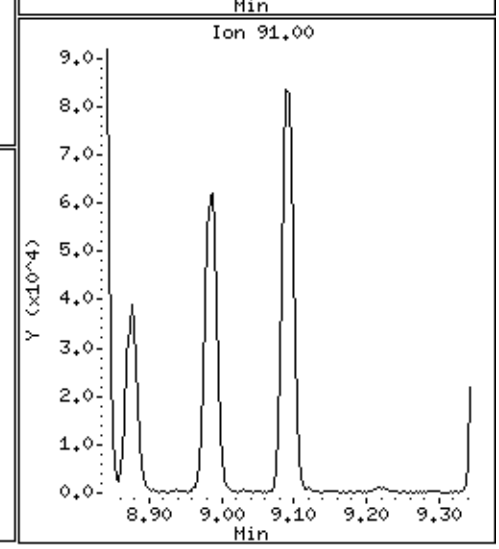


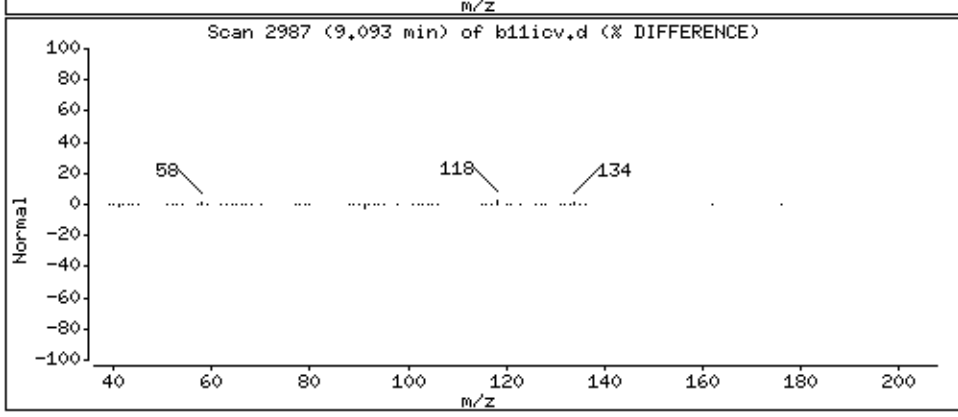












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

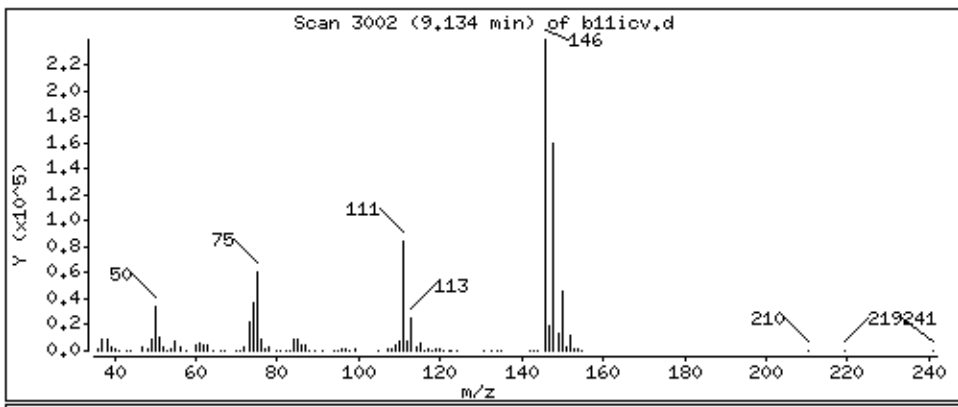
Operator: dae

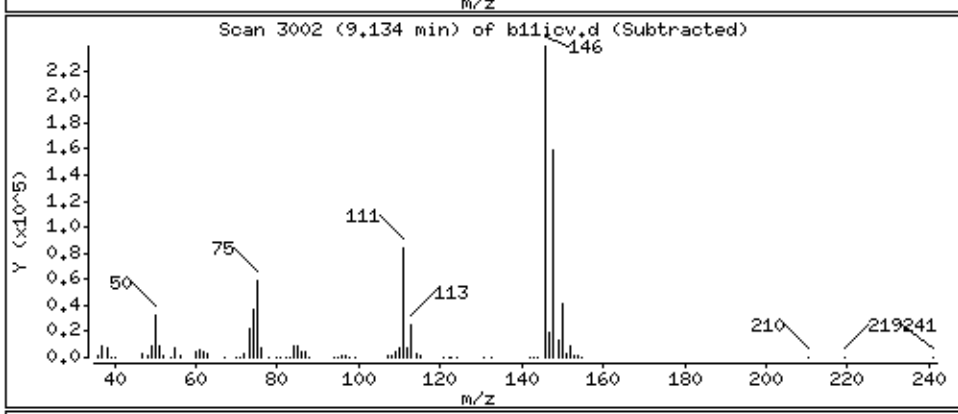
Column phase: DB-624

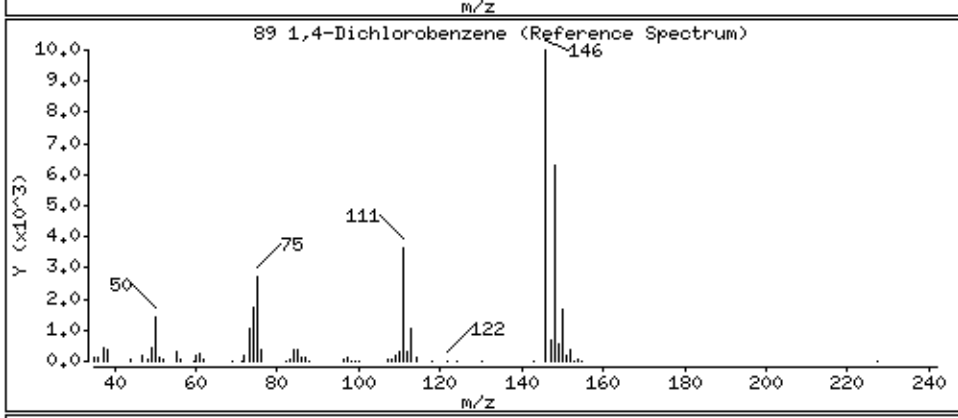
Column diameter: 0.18

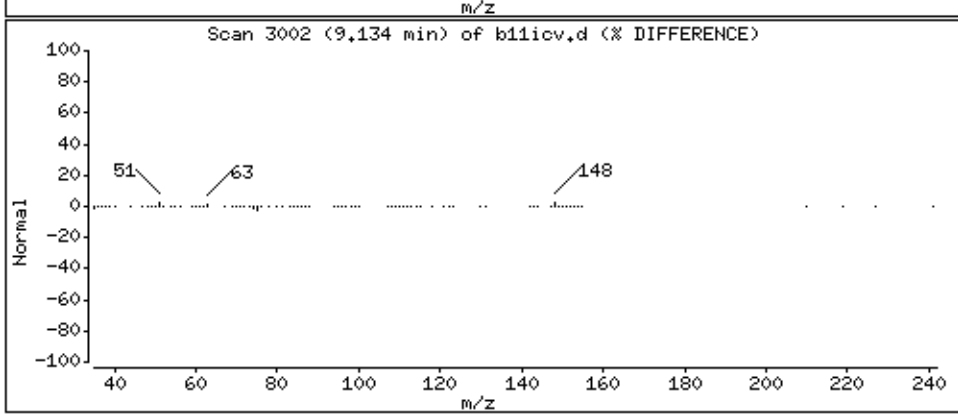
89 1,4-Dichlorobenzene

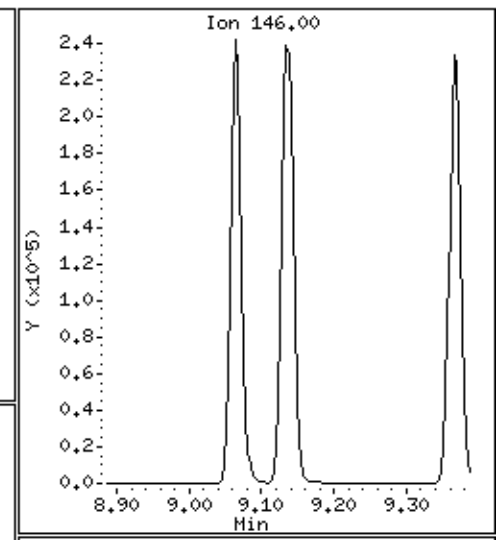
Concentration: 49.5 ppb

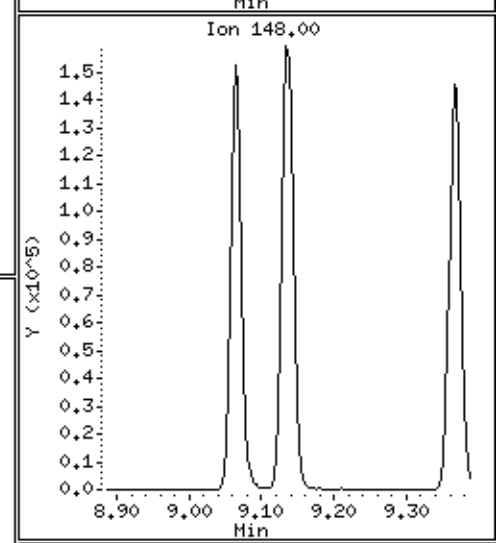


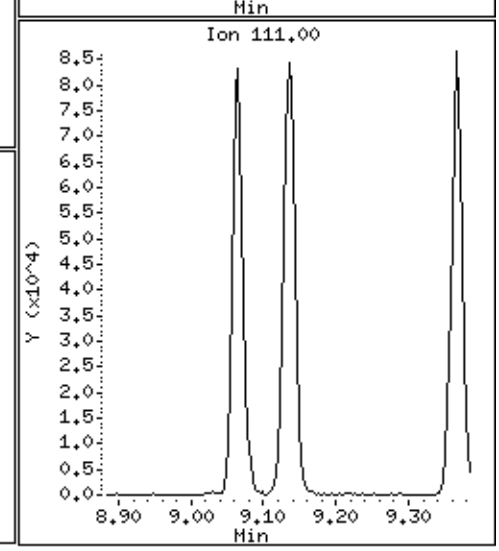












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

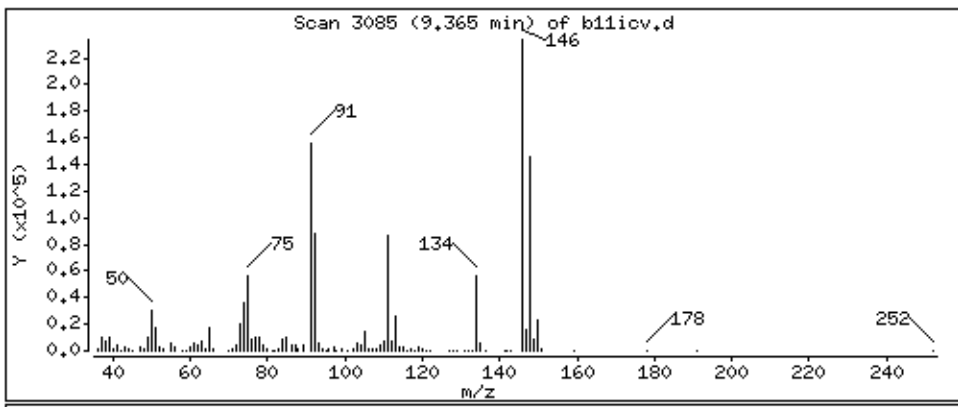
Operator: dae

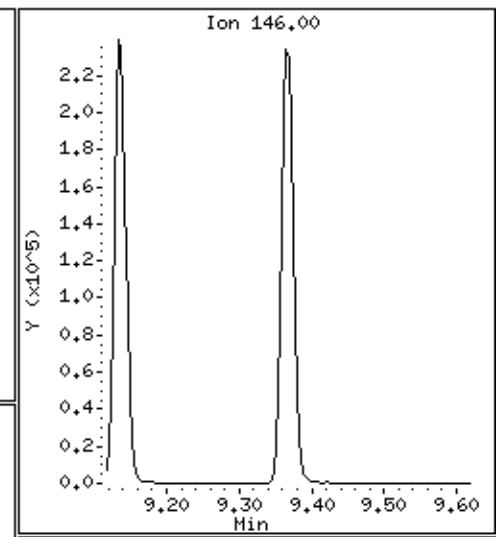
Column phase: DB-624

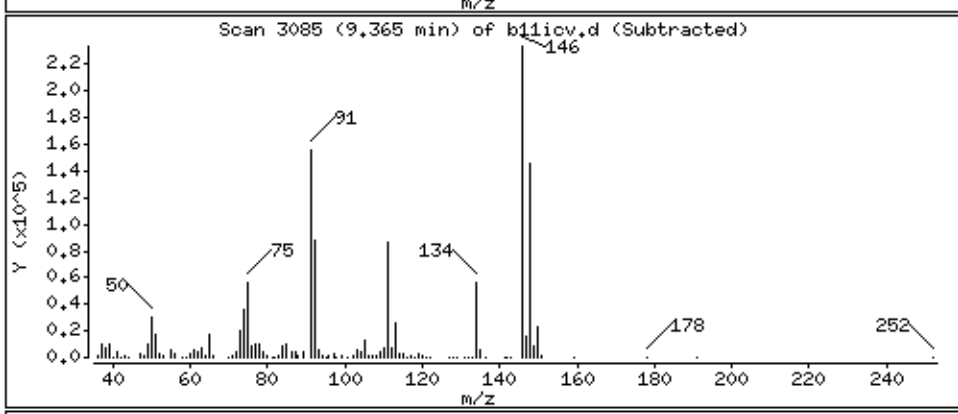
Column diameter: 0.18

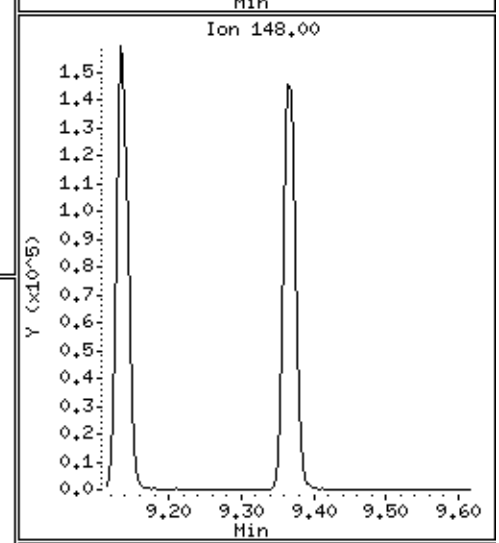
90 1,2-Dichlorobenzene

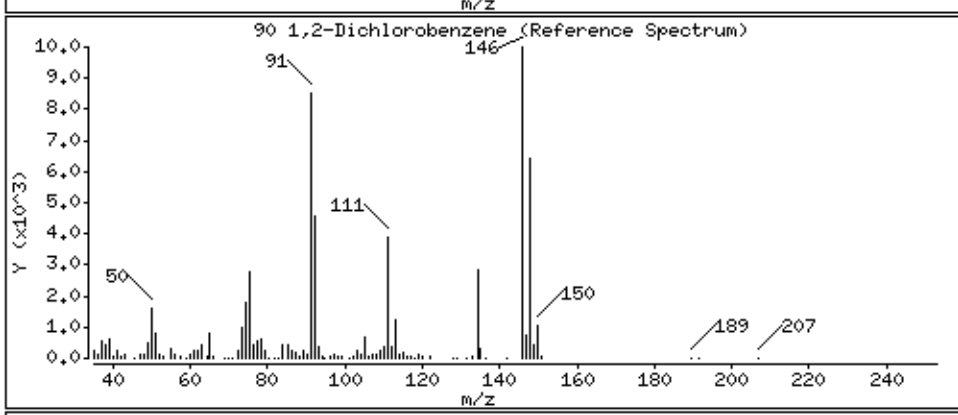
Concentration: 52.7 ppb

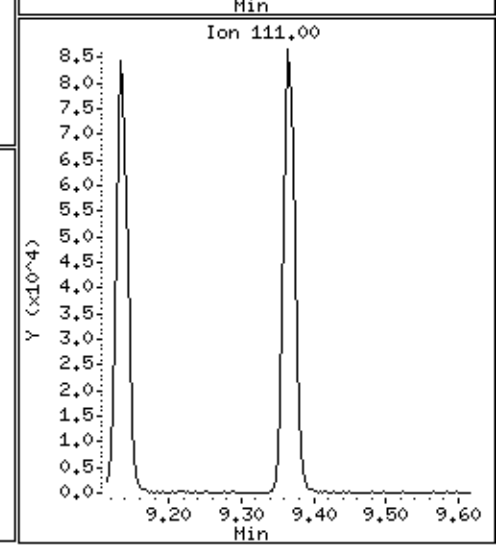


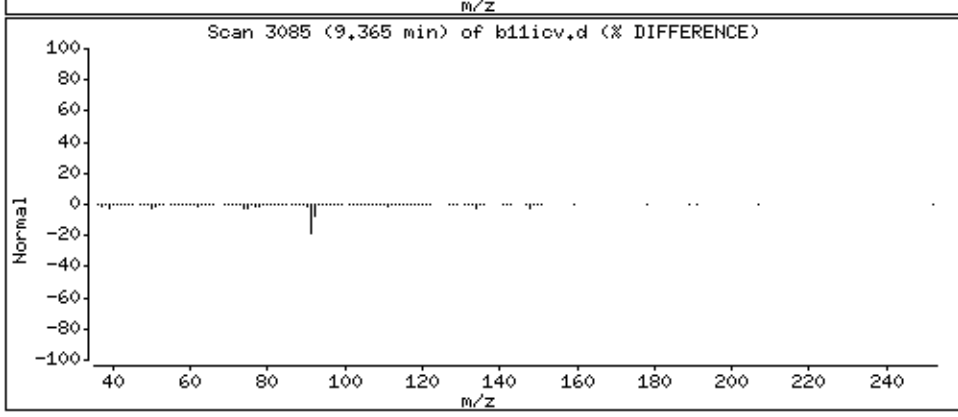












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

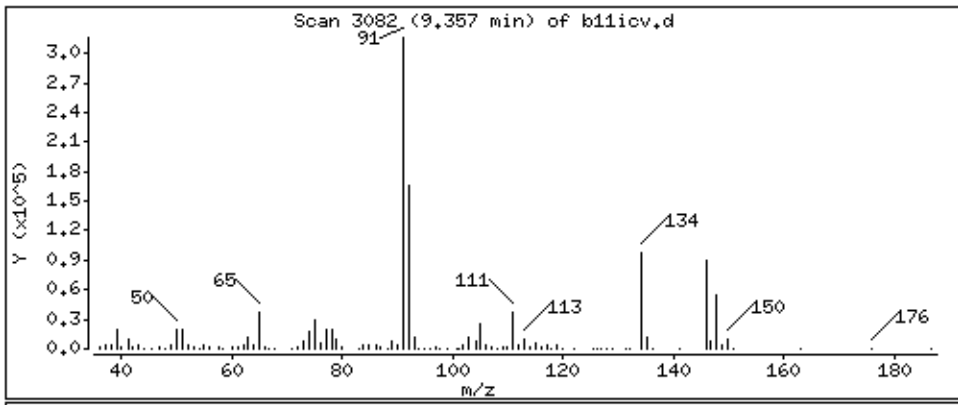
Operator: dae

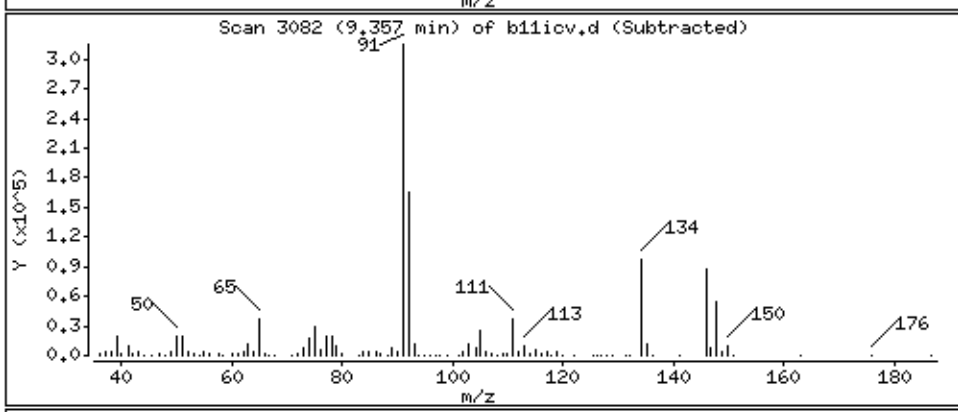
Column phase: DB-624

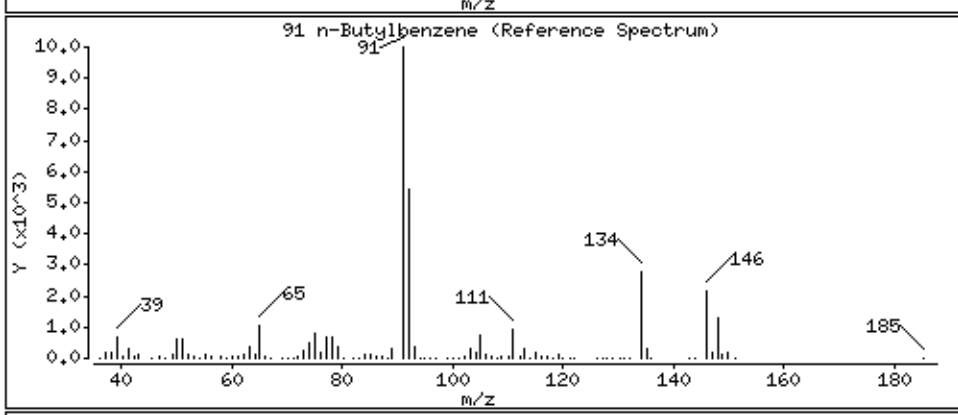
Column diameter: 0.18

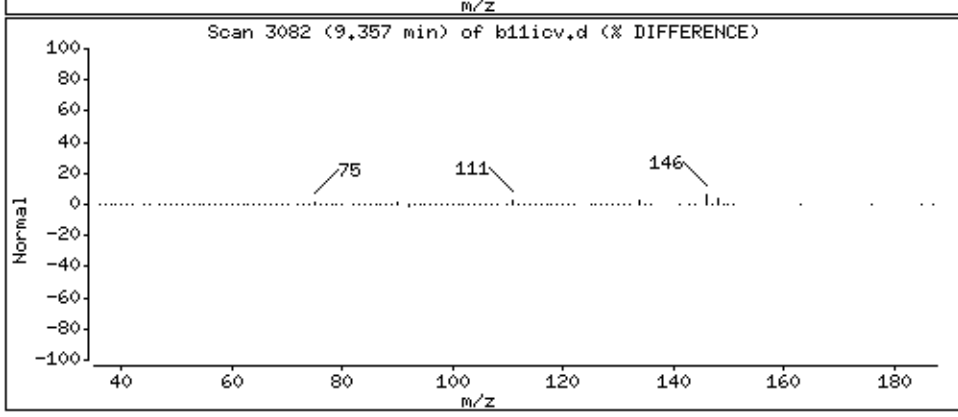
91 n-Butylbenzene

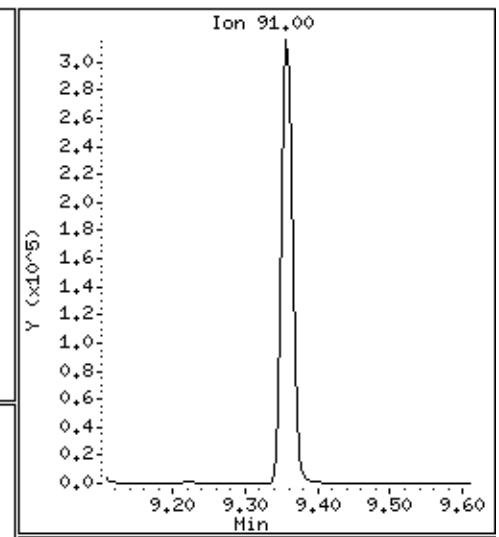
Concentration: 50.8 ppb

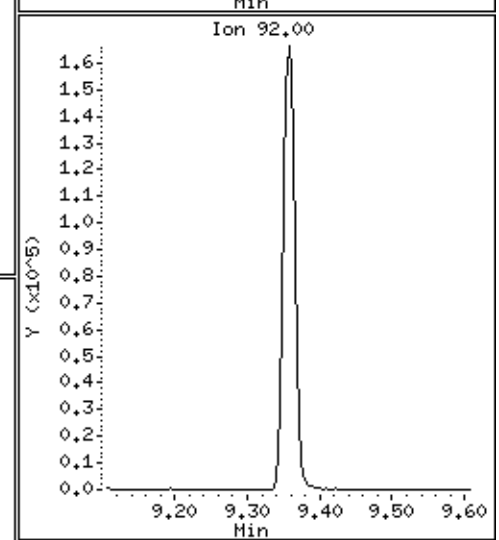


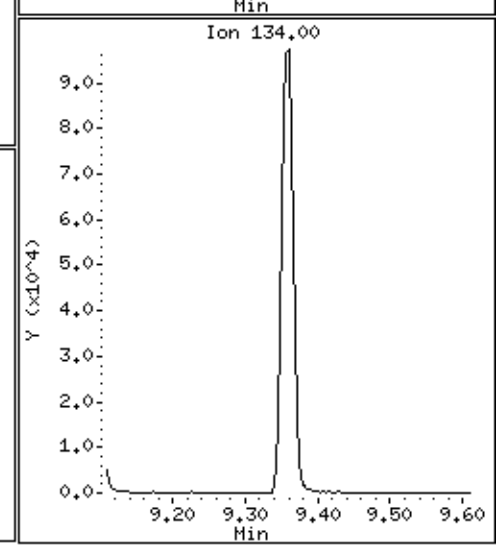












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

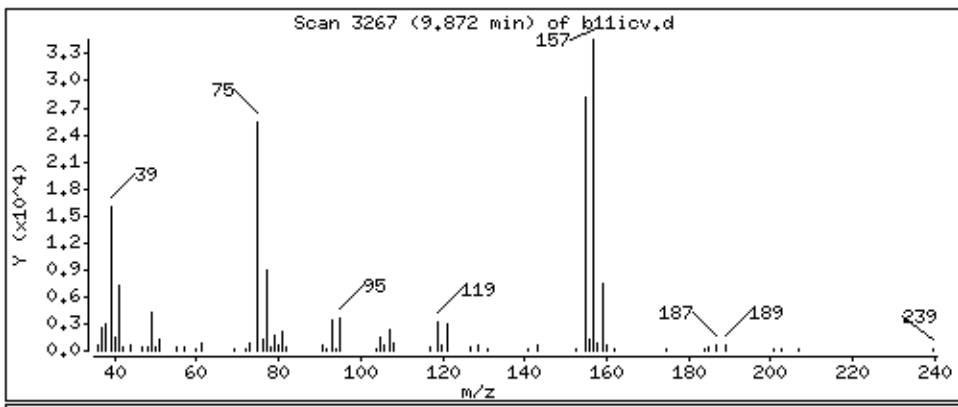
Operator: dae

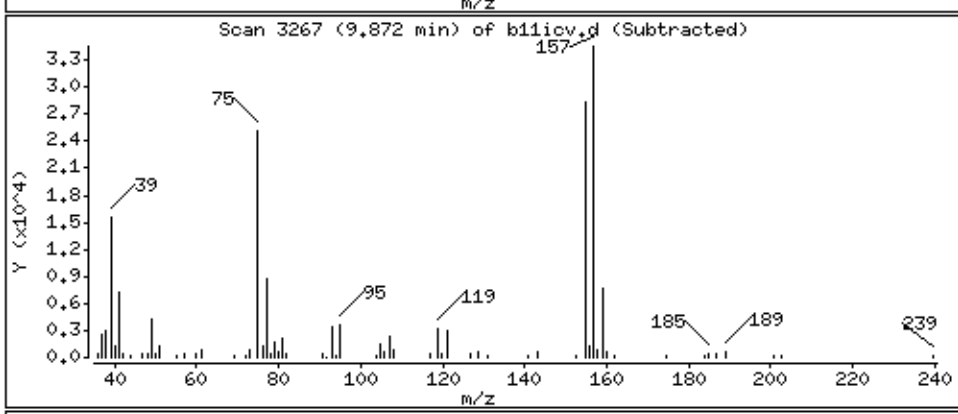
Column phase: DB-624

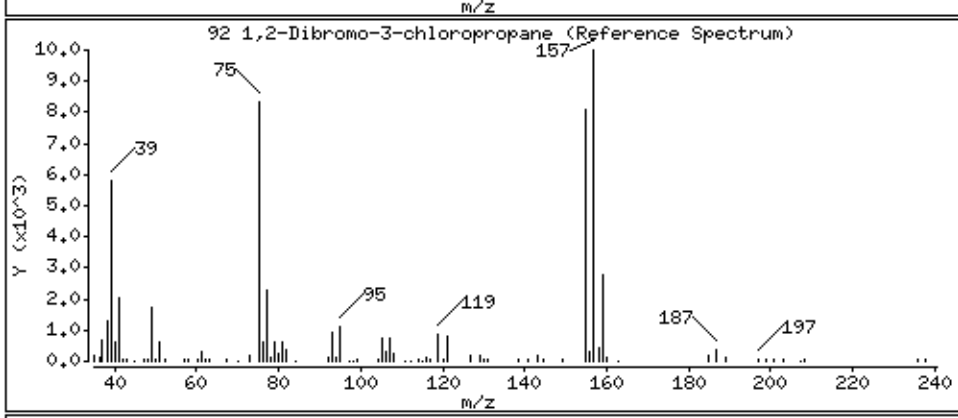
Column diameter: 0.18

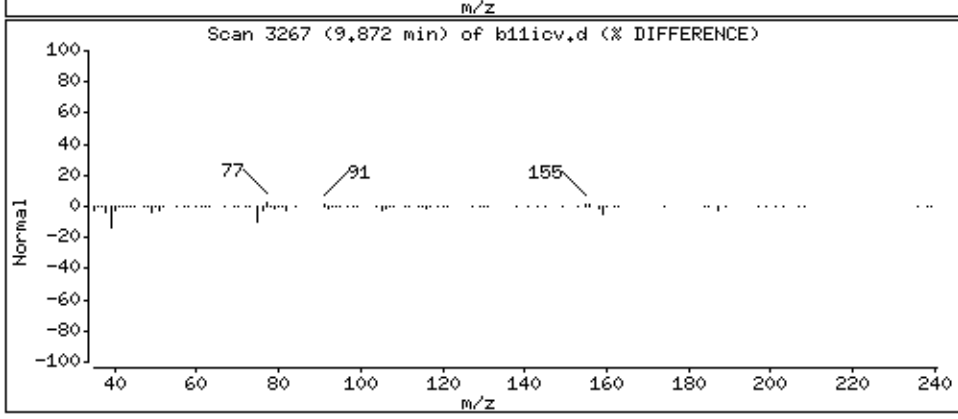
92 1,2-Dibromo-3-chloropropane

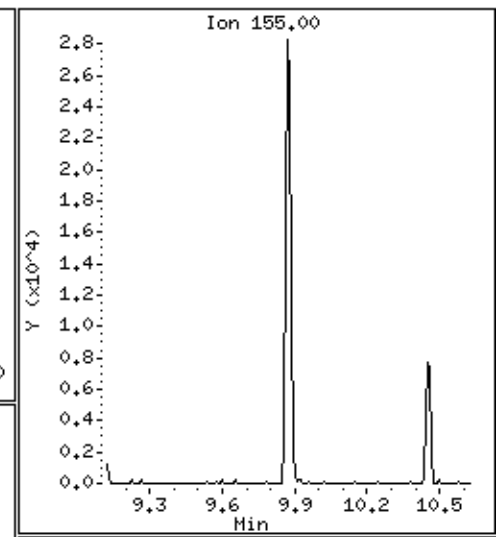
Concentration: 52.6 ppb

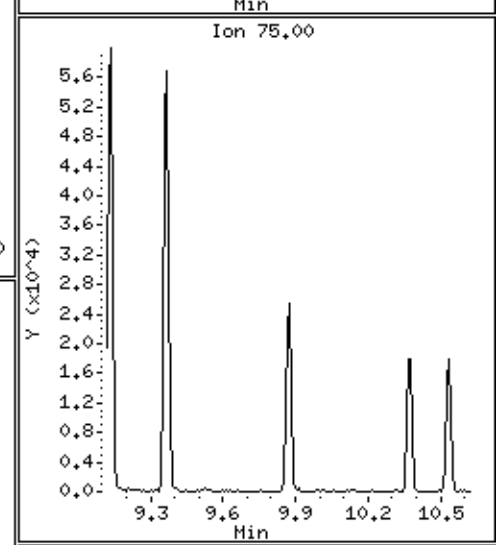


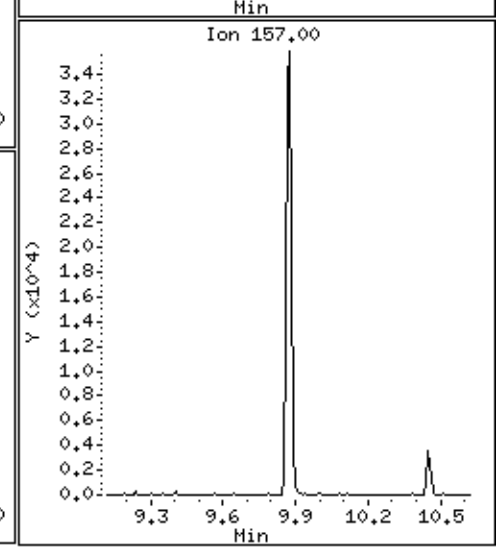












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

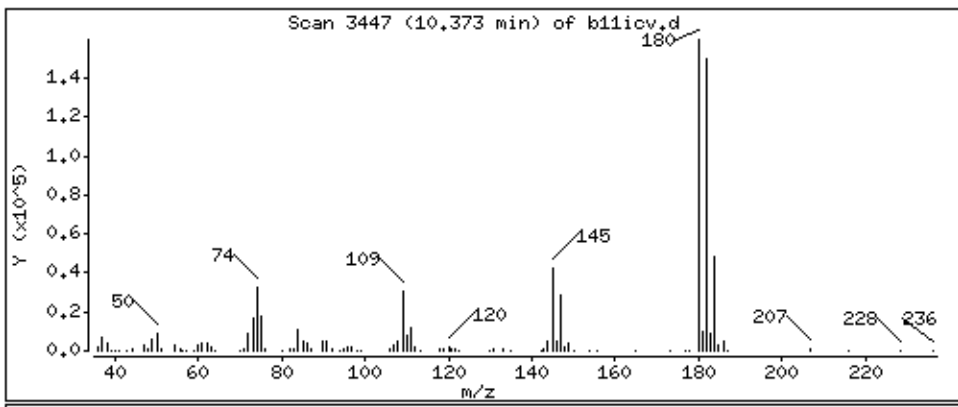
Operator: dae

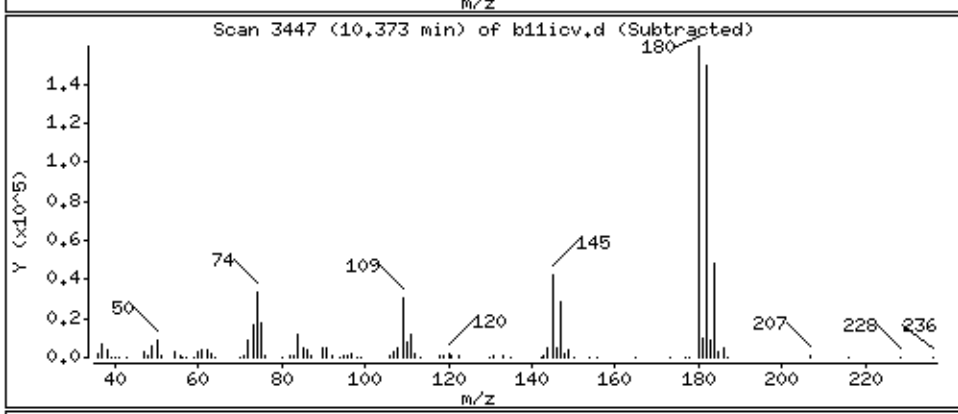
Column phase: DB-624

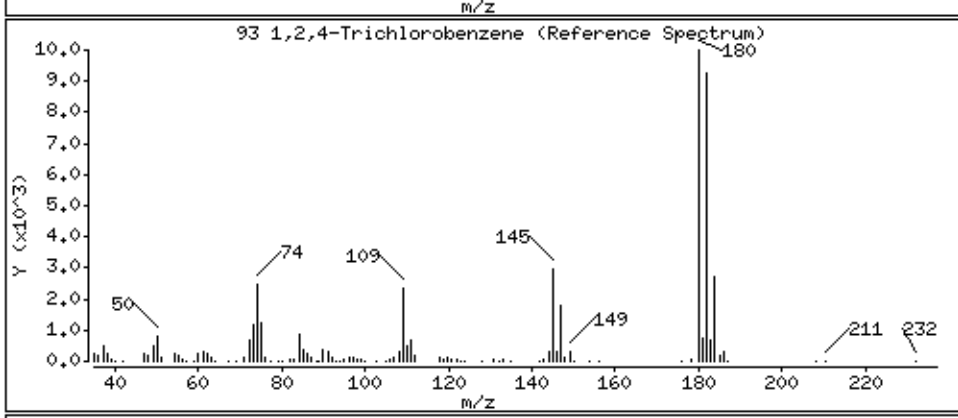
Column diameter: 0.18

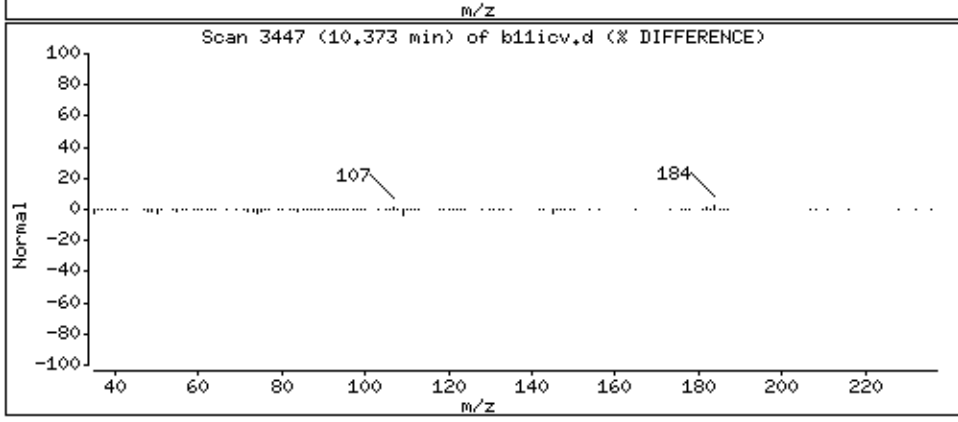
93 1,2,4-Trichlorobenzene

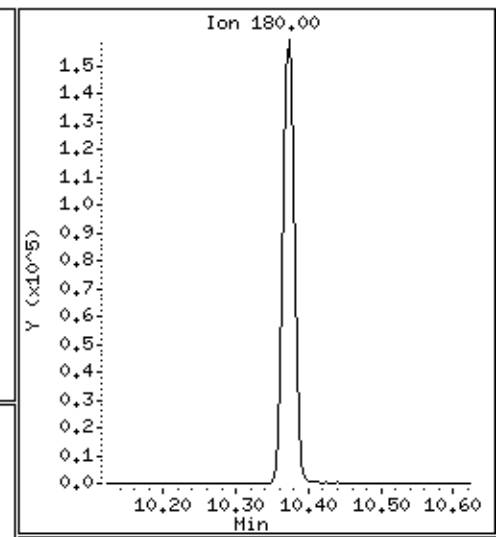
Concentration: 54.5 ppb

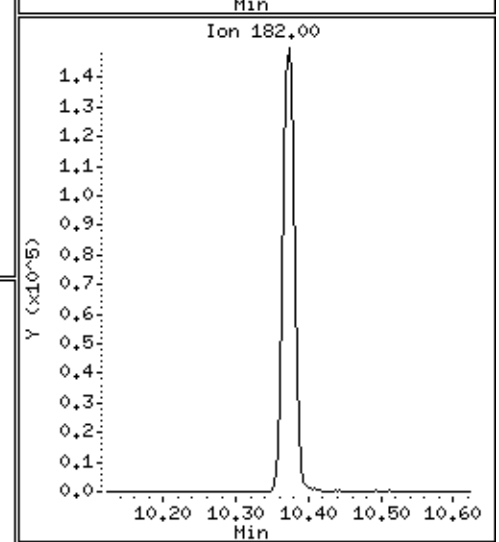


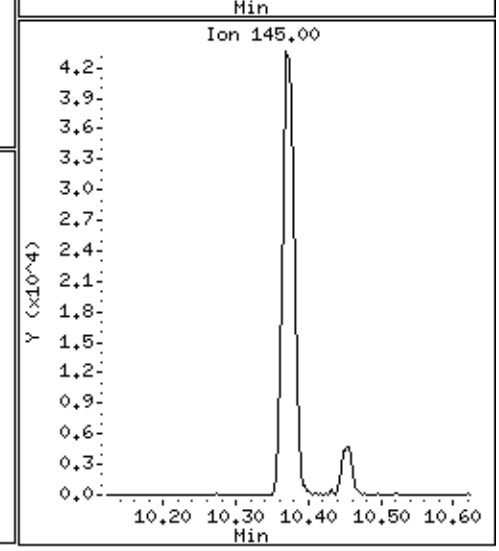












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

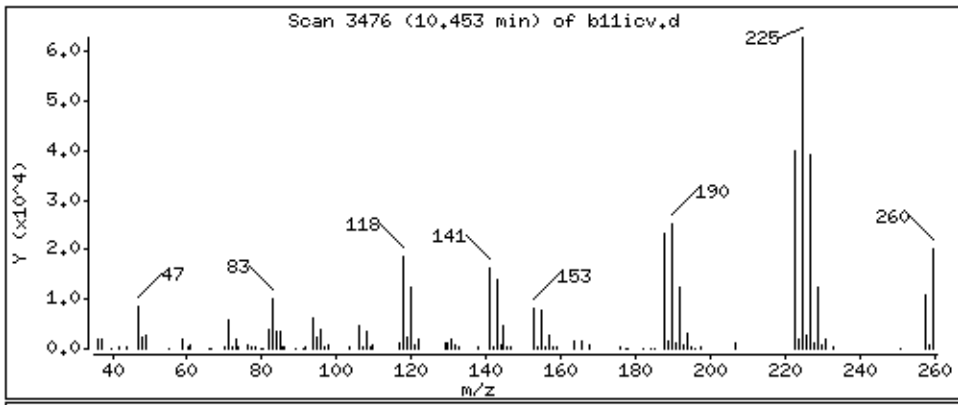
Operator: dae

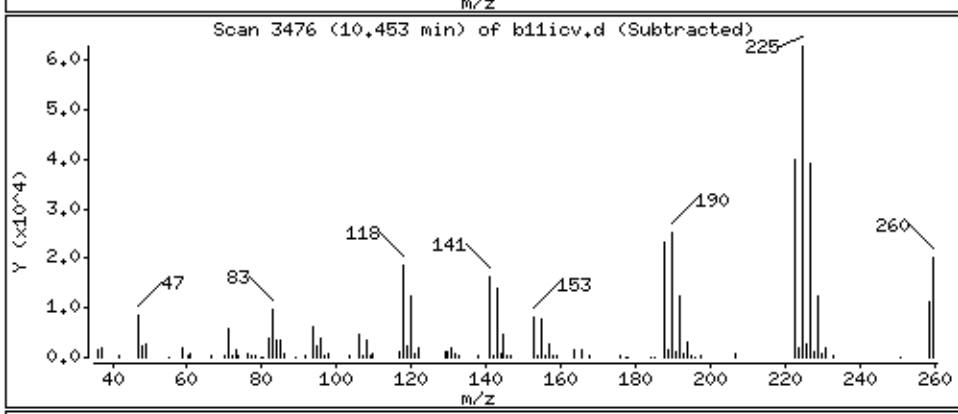
Column phase: DB-624

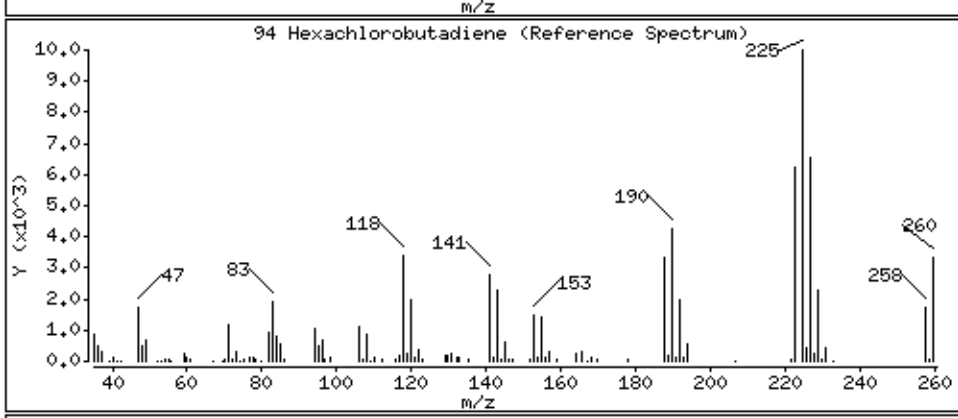
Column diameter: 0.18

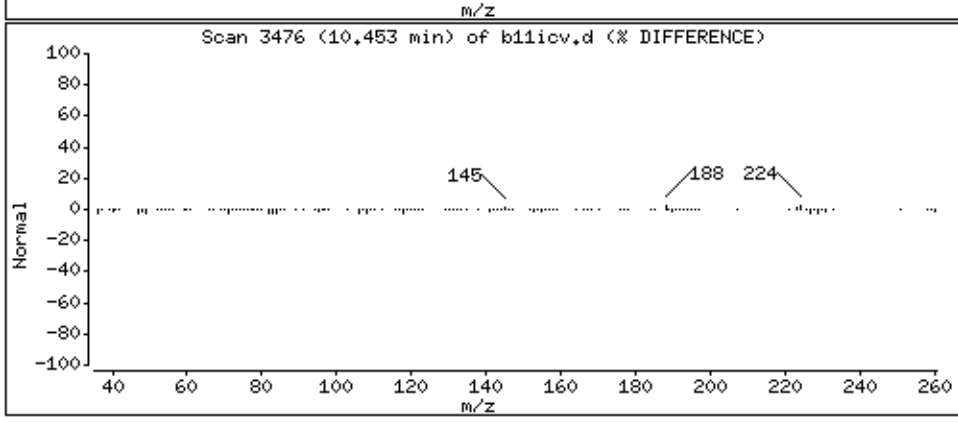
94 Hexachlorobutadiene

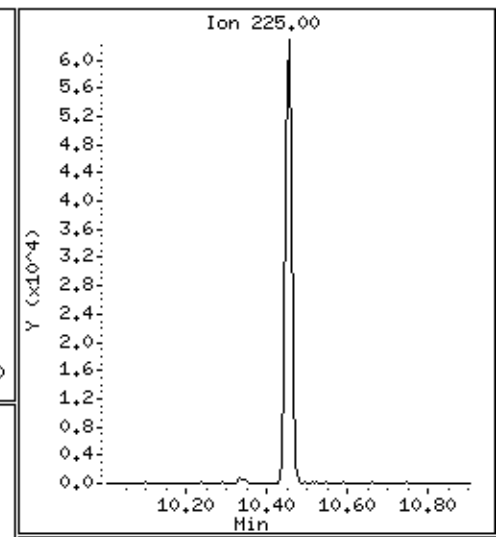
Concentration: 53.8 ppb

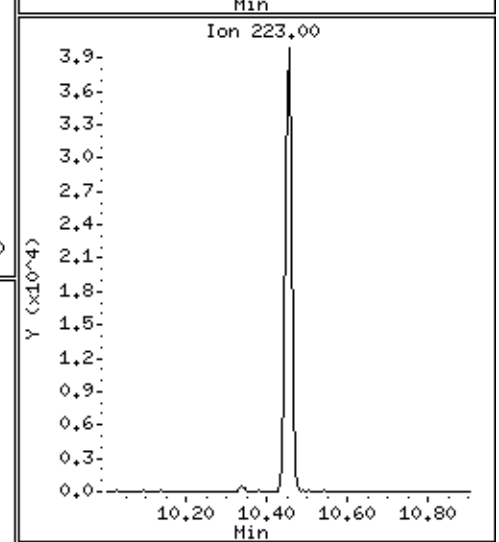


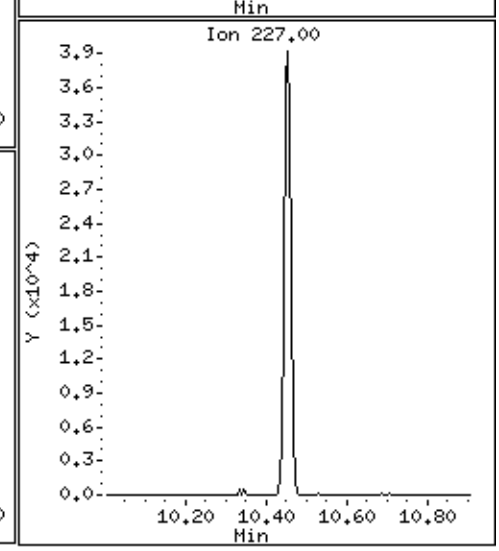












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

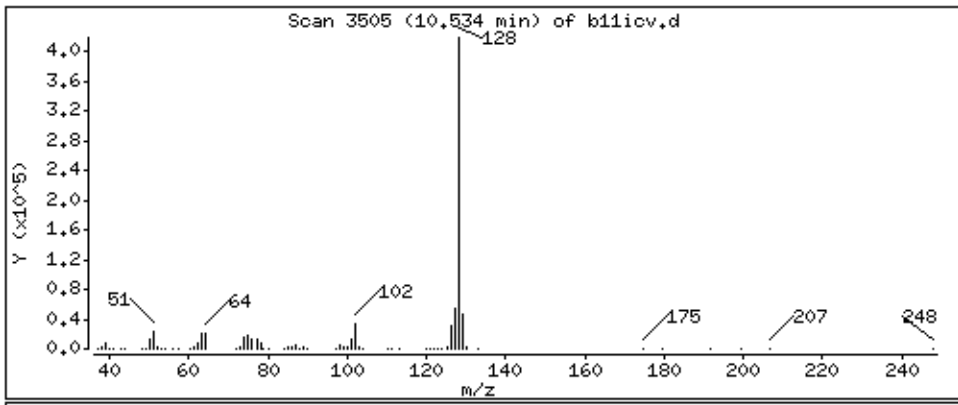
Operator: dae

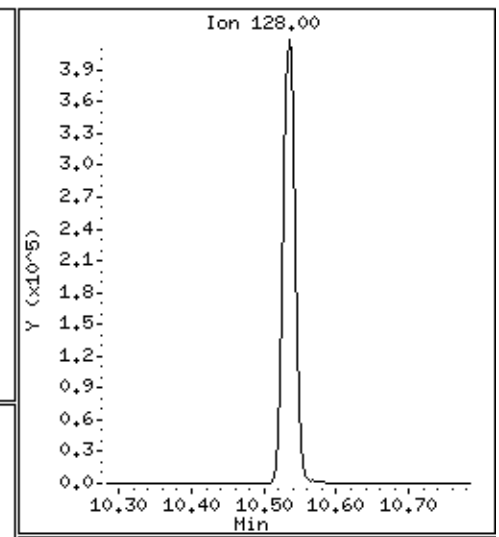
Column phase: DB-624

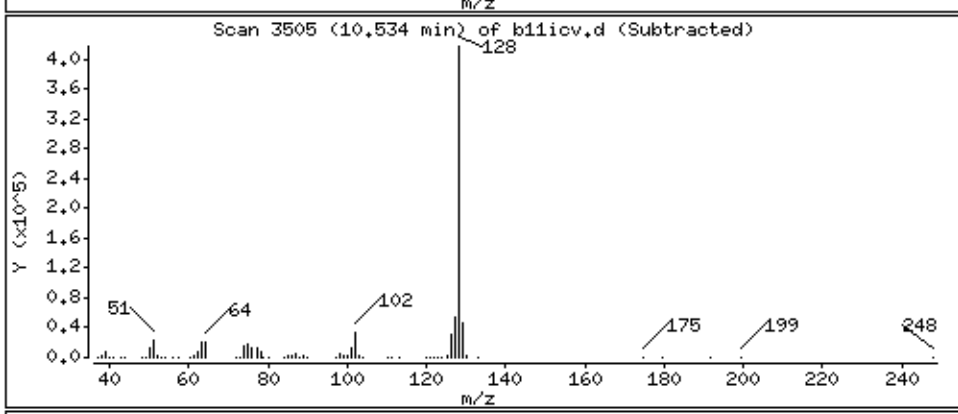
Column diameter: 0.18

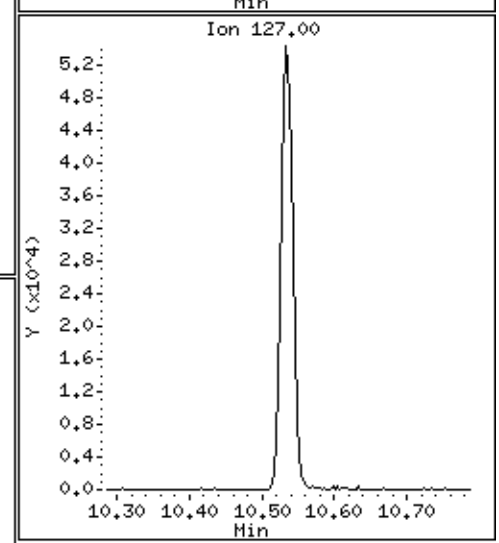
95 Naphthalene

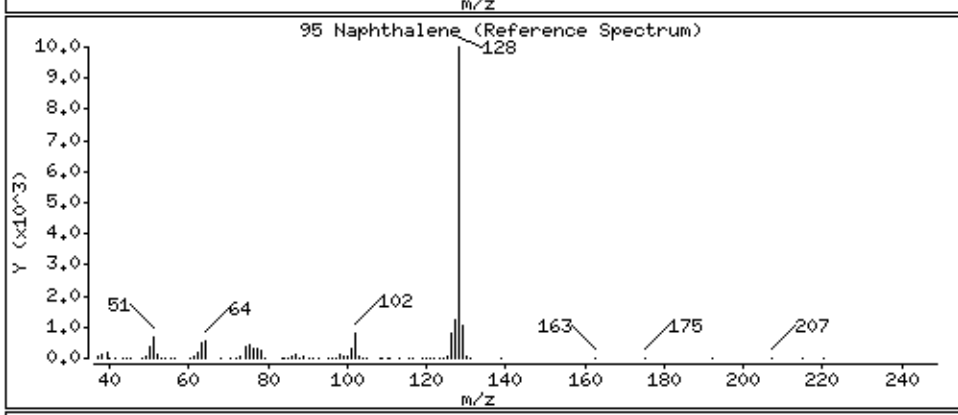
Concentration: 49.8 ppb

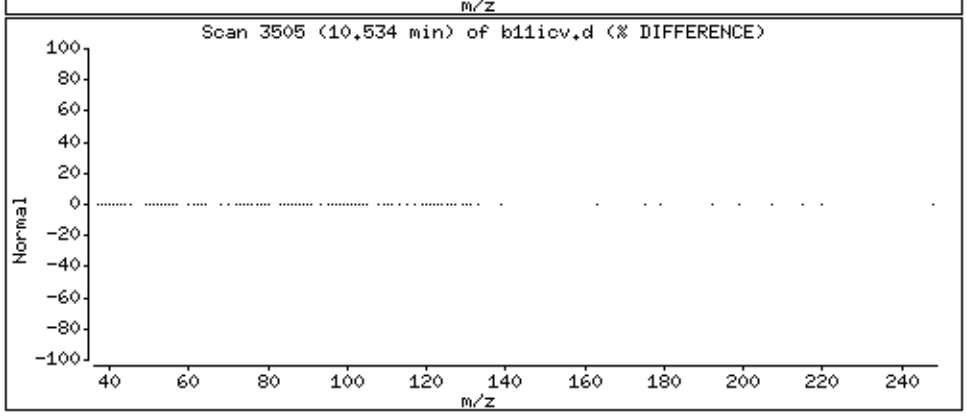












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Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

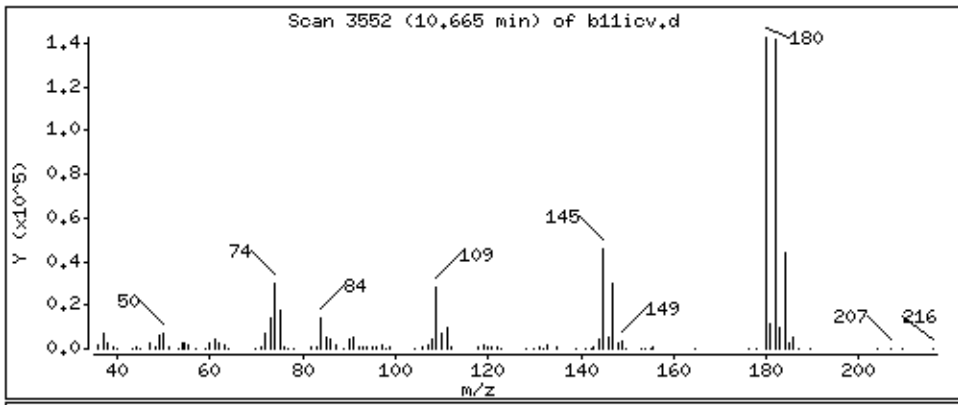
Operator: dae

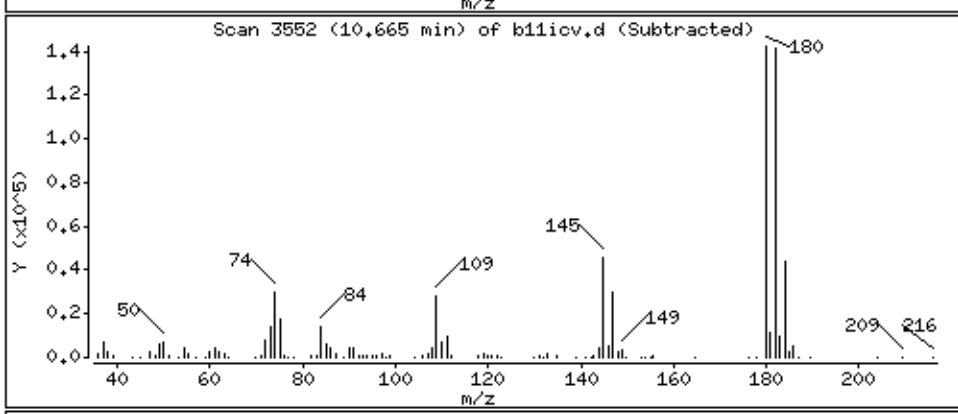
Column phase: DB-624

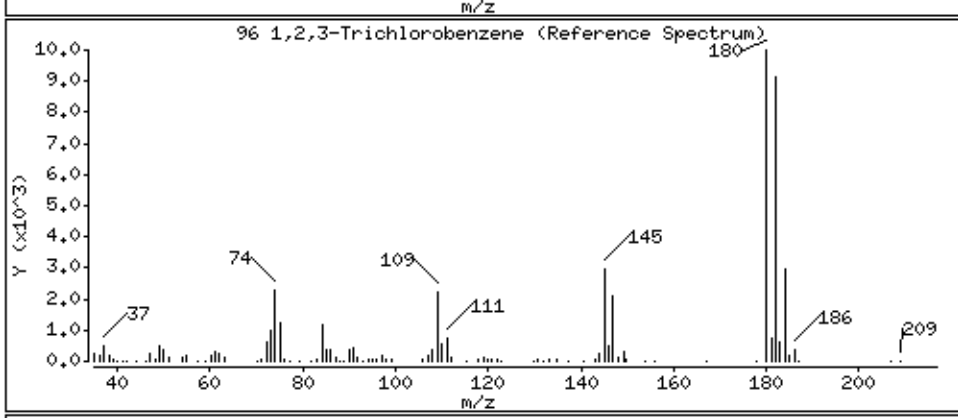
Column diameter: 0.18

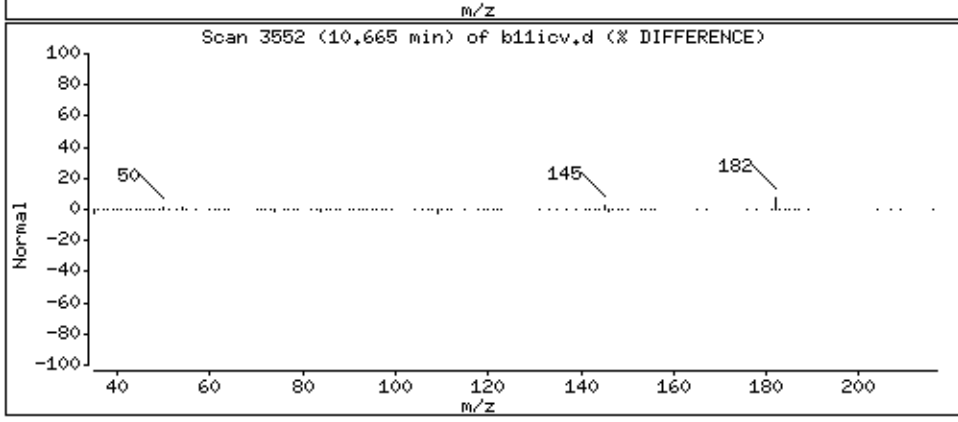
96 1,2,3-Trichlorobenzene

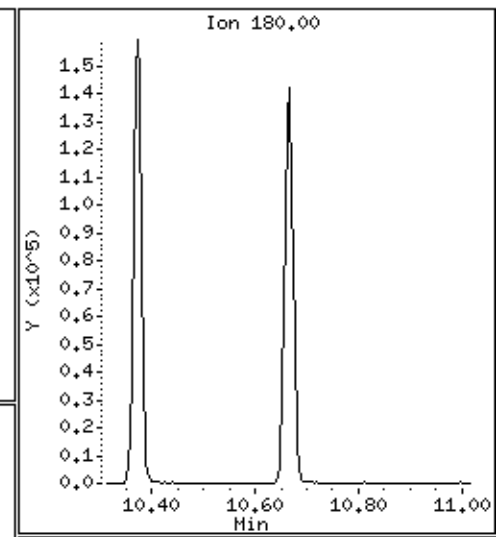
Concentration: 53.6 ppb

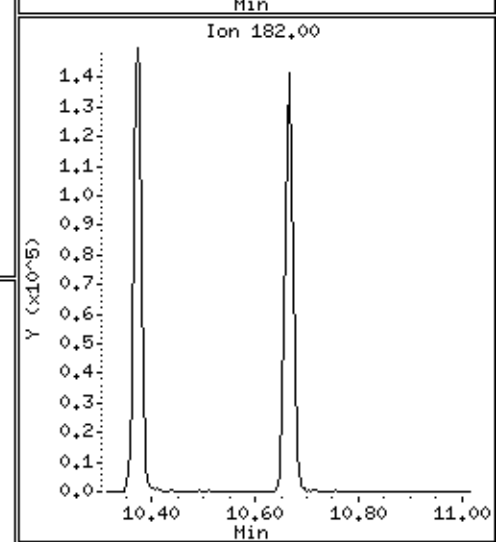


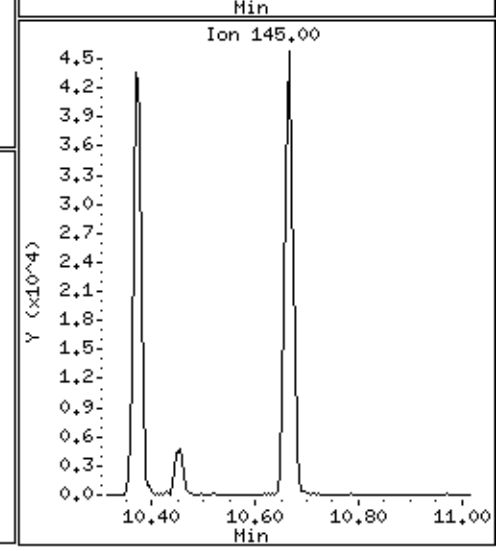












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

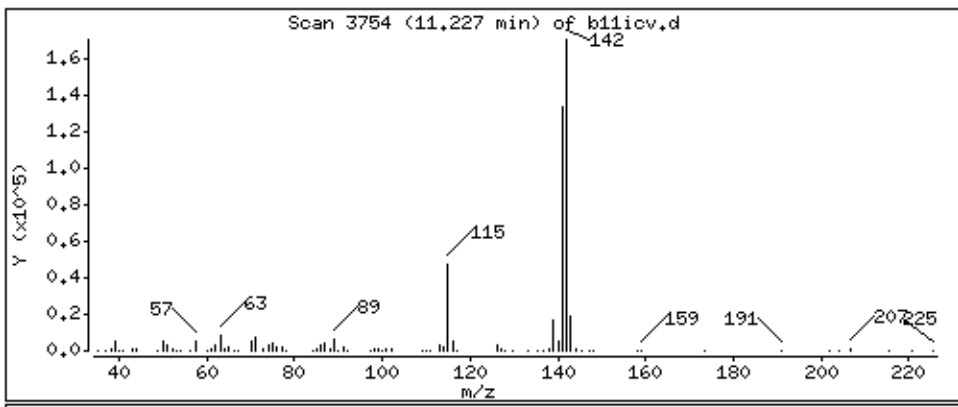
Operator: dae

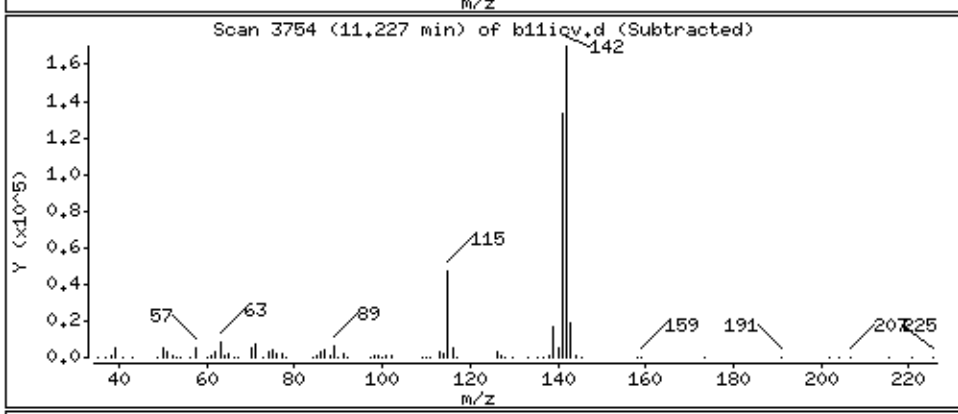
Column phase: DB-624

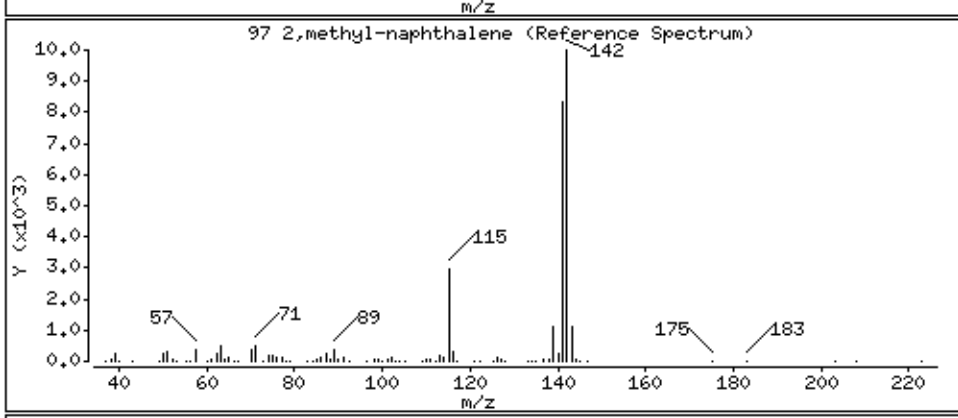
Column diameter: 0.18

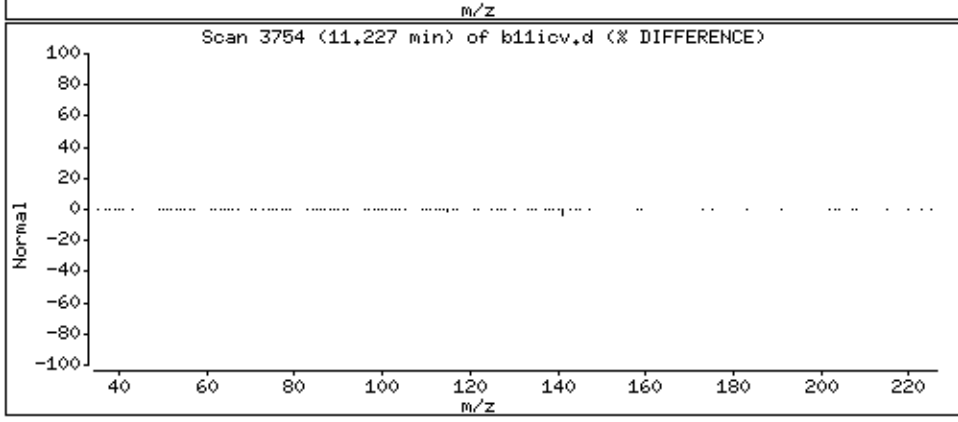
97 2,methyl-naphthalene

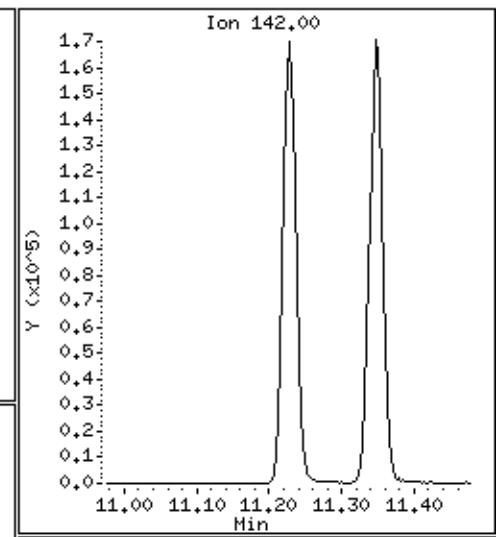
Concentration: 47.8 ppb

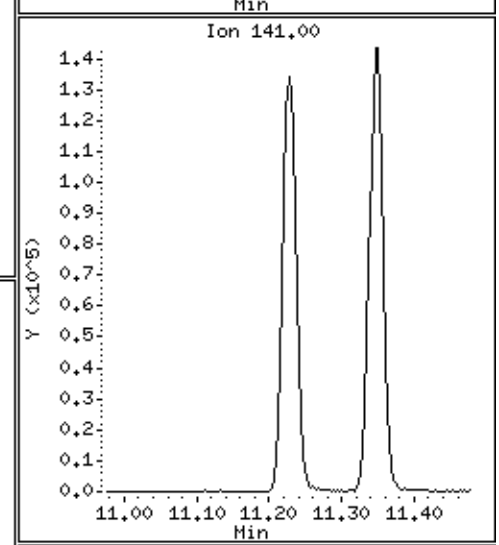


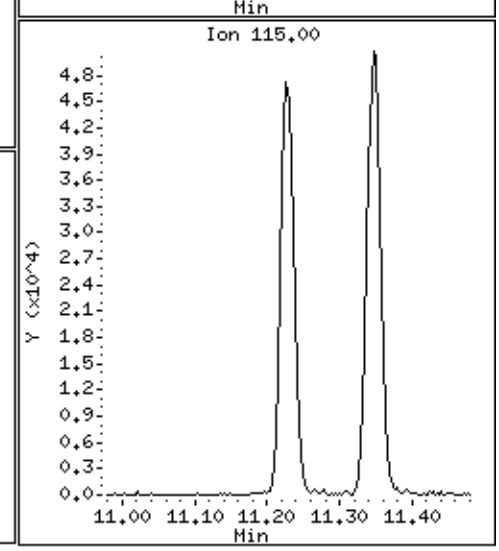












Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b11icv.d

Date : 23-JAN-2017 03:07

Client ID: 8260-ICV,140434:5

Instrument: 50mv2b.i

Sample Info: 8260-ICV,140434:5

Purge Volume: 5.0

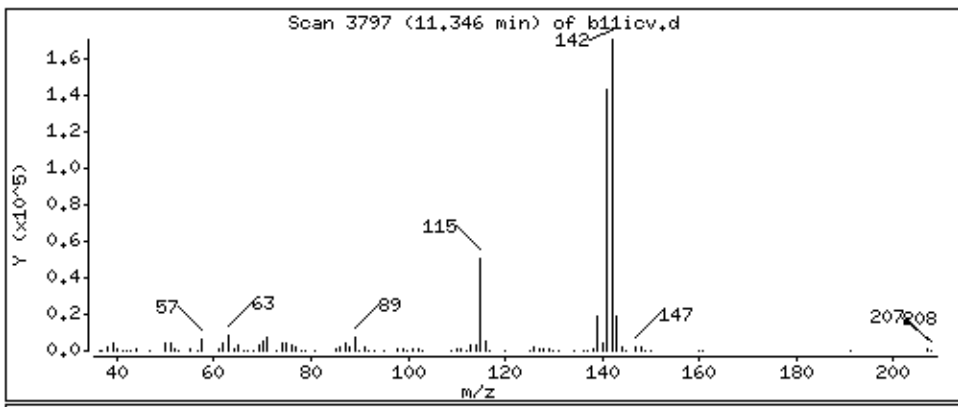
Operator: dae

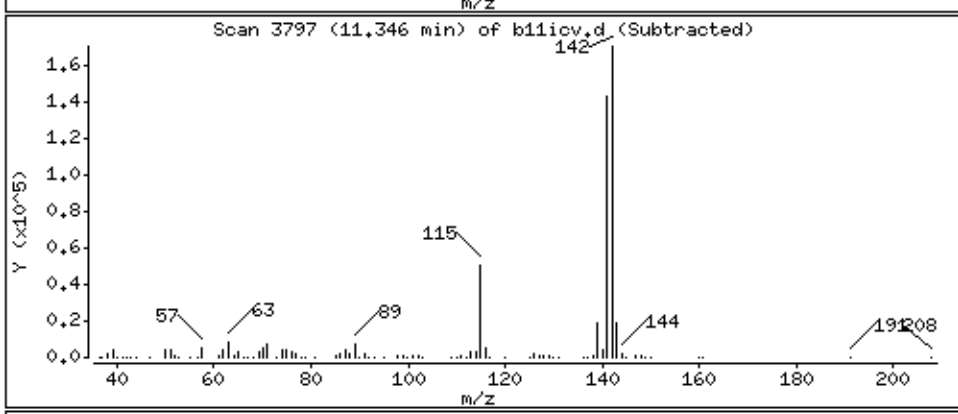
Column phase: DB-624

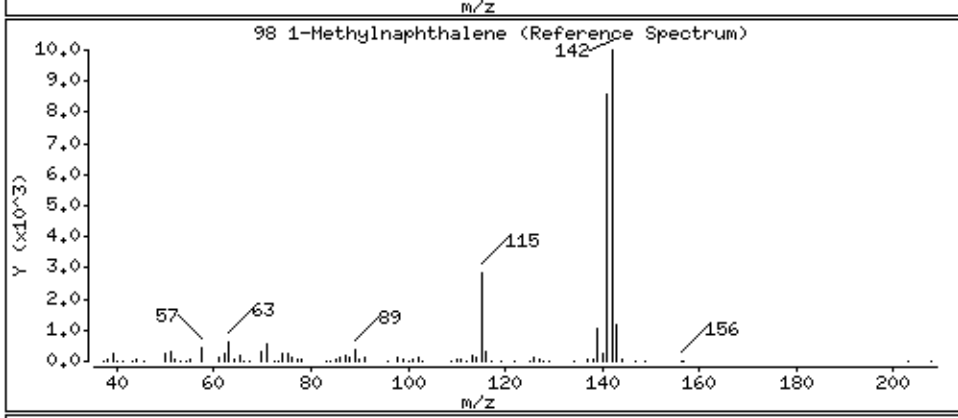
Column diameter: 0.18

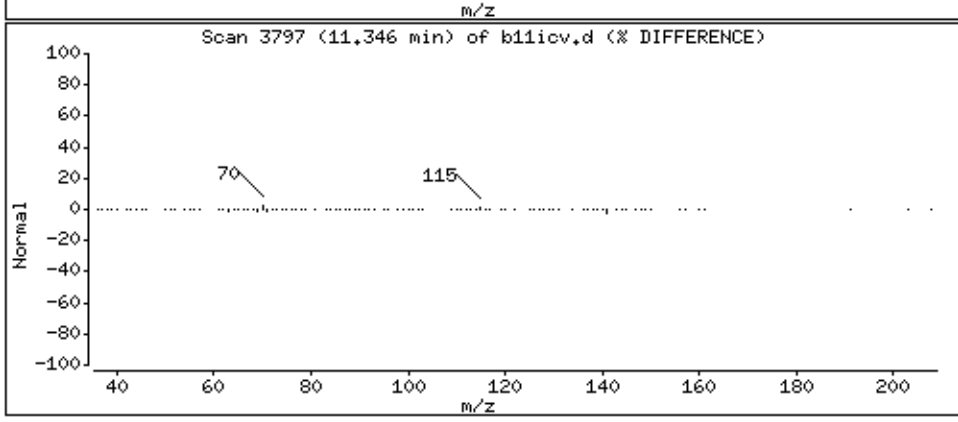
98 1-Methylnaphthalene

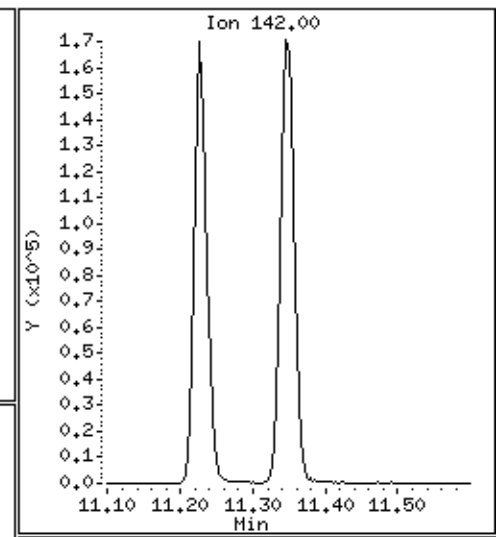
Concentration: 57.5 ppb

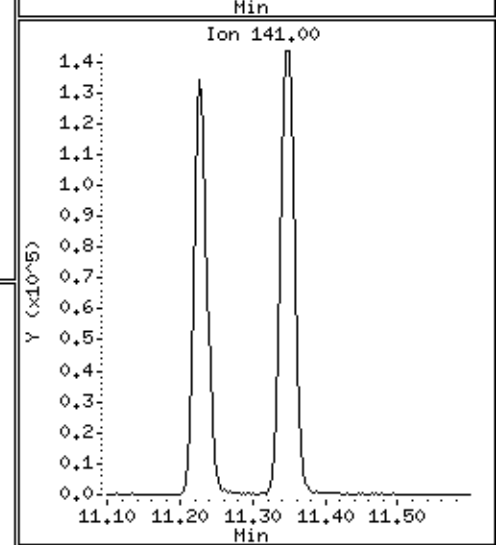


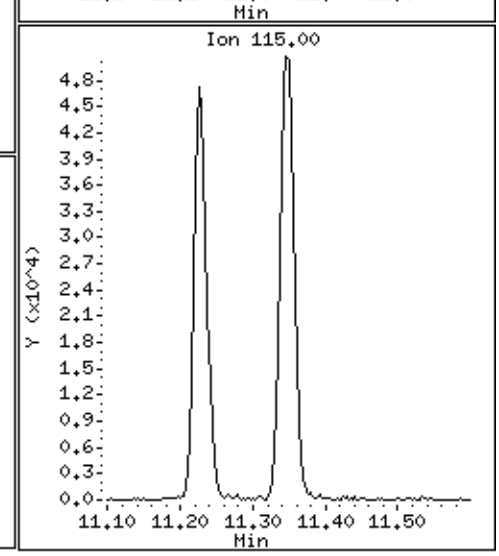












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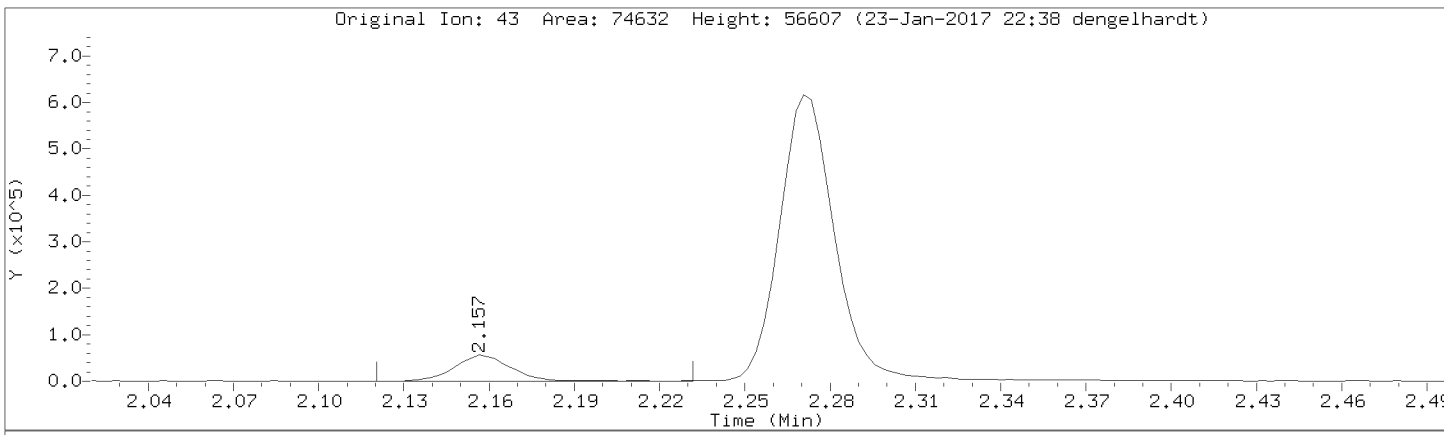
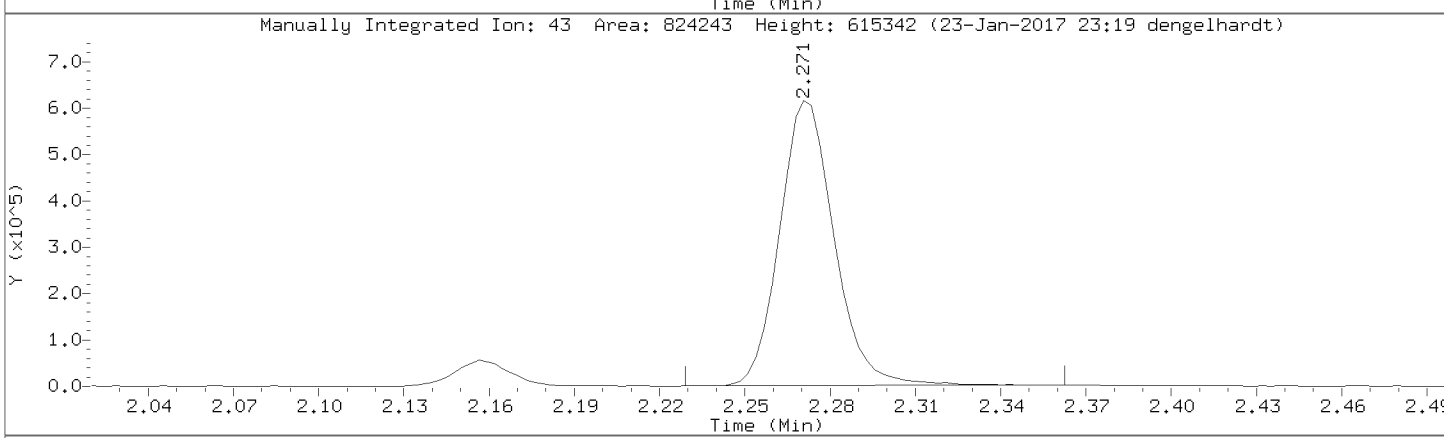
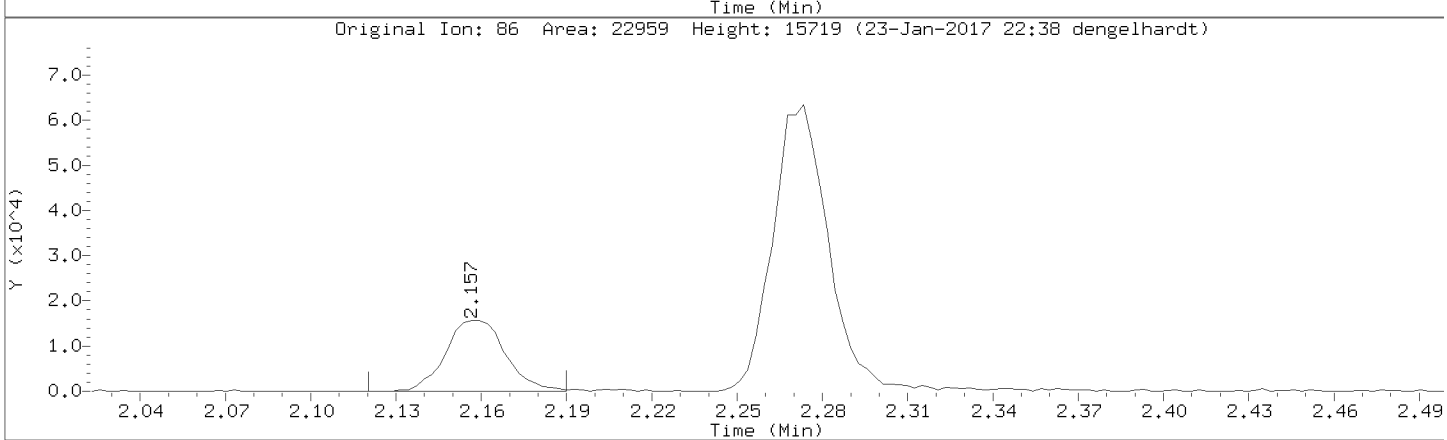
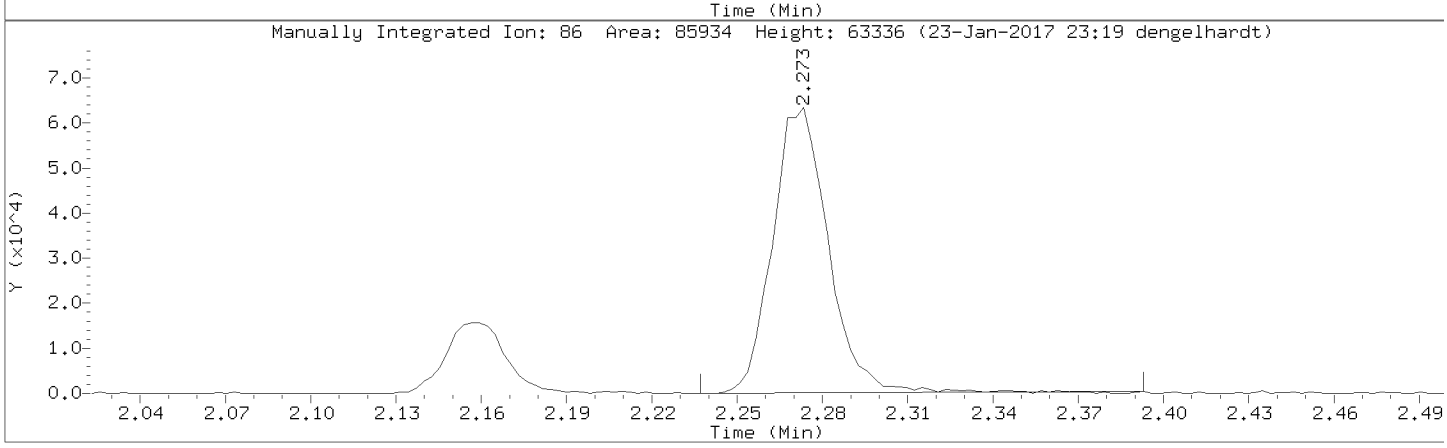
Injection Date: 23-JAN-2017 03:07
Instrument: 50mv2b.i
Lab Sample ID: 8260-ICV,140434:5

Compound: Vinyl Acetate Review Code: WP
CAS Number: 108-05-4









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2b.i\b012517.b\b01ccv.d
Lab Smp Id: 8260-CCV Client Smp ID: 8260-CCV
Inj Date : 26-JAN-2017 00:28
Operator : dae Inst ID: 50mv2b.i
Smp Info : 8260-ccv,140780:0
Misc Info : 99072
Comment :
Method : \\192.168.50.6\chem\50mv2b.i\b012517.b\-b8260_a_c.m
Meth Date : 26-Jan-2017 11:13 50mv2b.i Quant Type: ISTD
Cal Date : 23-JAN-2017 02:01 Cal File: b08cal8.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.882	0.882	(0.217)	108158	50.0000	79.6	
2 Chloromethane	50	0.988	0.988	(0.243)	95187	50.0000	44.5	
3 Vinyl Chloride	62	1.010	1.010	(0.248)	107121	50.0000	51.6	
4 Bromomethane	94	1.149	1.149	(0.282)	34566	50.0000	49.9	
5 Chloroethane	64	1.194	1.194	(0.293)	60406	50.0000	48.2	
6 Trichlorofluoromethane	101	1.305	1.305	(0.321)	133410	50.0000	55.8	
7 Diethyl ether	74	1.425	1.425	(0.350)	55969	50.0000	42.9	
8 1,2-dichlorotrifluoroethane	67	1.444	1.444	(0.355)	94418	50.0000	46.3	
9 Acrolein	56	1.497	1.497	(0.368)	348839	1000.00	1180	
10 1,1,2trichlorotrifluoroethane	101	1.544	1.544	(0.379)	79585	50.0000	44.6	
11 1,1-Dichloroethene	96	1.553	1.553	(0.381)	67298	50.0000	46.7	
12 Acetone	43	1.564	1.564	(0.384)	160608	250.000	248	
13 Iodomethane	142	1.639	1.639	(0.403)	99530	100.000	72.5	
14 Carbon Disulfide	76	1.683	1.683	(0.414)	167639	50.0000	44.5	
15 Methyl Acetate	43	1.728	1.728	(0.425)	86147	50.0000	42.0	
16 Acetonitrile	39	1.742	1.742	(0.428)	156465	50.0000	47.8	
17 allyl chloride	41	1.742	1.742	(0.428)	218487	100.000	92.1	
18 Methylene Chloride	84	1.817	1.817	(0.446)	74707	50.0000	48.0	
19 tert-Butyl Alcohol	59	1.861	1.861	(0.457)	18607	100.000	93.3	
20 Acrylonitrile	53	1.950	1.950	(0.479)	162771	200.000	197	
21 Methyl-tert-butyl ether	73	1.970	1.970	(0.484)	244375	50.0000	43.9	
22 1,2-Dichloroethene (trans)	96	1.981	1.981	(0.487)	72591	50.0000	46.4	
23 n-Hexane	57	2.159	2.159	(0.530)	100184	50.0000	42.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.270	2.270	(0.558)	734108	200.000	208(M)	WP
25 1,1-Dichloroethane	63	2.279	2.279	(0.560)	135899	50.0000	44.5	
26 Chloroprene	53	2.332	2.332	(0.573)	116018	50.0000	46.4	
147 Ethyl acetate	88	2.771	2.771	(0.681)	40567	400.000	387	
27 2-Butanone	72	2.732	2.732	(0.671)	63533	250.000	257	
28 1,2-Dichloroethene (cis)	96	2.743	2.743	(0.674)	84307	50.0000	49.0	
29 2,2-Dichloropropane	77	2.749	2.749	(0.675)	86811	50.0000	48.1	
30 Propionitrile	54	2.785	2.785	(0.684)	17720	50.0000	53.3	
31 Methacrylonitrile	41	2.933	2.933	(0.720)	61506	50.0000	49.2	
32 Bromochloromethane	49	2.972	2.972	(0.730)	67571	50.0000	44.5	
33 Tetrahydrofuran	42	2.985	2.985	(0.733)	29787	50.0000	47.9	
34 Chloroform	83	3.077	3.077	(0.756)	136692	50.0000	50.5	
$ 35 Dibromofluoromethane (S)	113	3.250	3.250	(0.798)	54887	50.0000	47.1	
36 1,1,1-Trichloroethane	97	3.244	3.244	(0.797)	118222	50.0000	43.2	
37 cyclohexane	56	3.317	3.317	(0.815)	129852	50.0000	49.0	
146 n-butyl chloride	56	3.389	3.389	(0.833)	161131	50.0000	48.4	
38 Carbon Tetrachloride	117	3.419	3.419	(0.840)	105069	50.0000	44.8	
39 1,1-Dichloropropene	75	3.428	3.428	(0.842)	110132	50.0000	47.9	
40 Benzene	78	3.667	3.667	(0.901)	307130	50.0000	46.1	
41 1,2-Dichloroethane	62	3.751	3.751	(0.921)	118068	50.0000	48.1	
42 2,2,4-Trimethylpentane	57	3.837	3.837	(0.943)	175136	50.0000	45.3	
43 Isobutyl alcohol	43	3.611	3.611	(0.887)	4325	50.0000	0.267	
148 Isopropyl acetate	61	3.778	3.778	(0.928)	154365	200.000	188	
* 44 Fluorobenzene	96	4.071	4.071	(1.000)	214084	50.0000		
45 Trichloroethene	95	4.535	4.535	(1.114)	77714	50.0000	47.4	
46 Methylcyclohexane	55	4.799	4.799	(1.179)	86249	50.0000	47.1	
47 1,2-Dichloropropane	63	4.847	4.847	(1.191)	77316	50.0000	43.8	
48 Dibromomethane	93	4.947	4.947	(1.215)	52992	50.0000	50.3	
49 Methyl methacrylate	69	4.964	4.964	(1.219)	65910	50.0000	44.7	
50 1,4-Dioxane	88	4.952	4.952	(1.217)	24937	1000.00	1010	
51 Bromodichloromethane	83	5.175	5.175	(1.271)	102767	50.0000	43.3	
52 2-Chloroethyl vinyl ether	63	5.531	5.531	(0.751)	45831	100.000	67.7	
53 cis-1,3-Dichloropropene	75	5.676	5.676	(0.770)	127194	50.0000	49.3	
54 4-Methyl-2-Pentanone	43	5.854	5.854	(0.795)	431179	250.000	236	
$ 55 Toluene-d8	98	5.949	5.949	(0.807)	214042	50.0000	51.3	
56 Toluene	91	6.024	6.024	(0.818)	330464	50.0000	45.7	
57 trans-1,3-Dichloropropene	75	6.319	6.319	(0.858)	114592	50.0000	49.7	
58 Ethyl Methacrylate	69	6.408	6.408	(0.870)	116414	50.0000	48.9	
59 1,1,2-Trichloroethane	83	6.516	6.516	(0.884)	61697	50.0000	46.5	
60 Tetrachloroethene	166	6.561	6.561	(0.890)	93928	50.0000	47.6	
61 1,3-Dichloropropane	76	6.664	6.664	(0.904)	131584	50.0000	50.0	
62 2-Hexanone	43	6.741	6.741	(0.915)	308908	250.000	242(M)	NI
63 Dibromochloromethane	129	6.864	6.864	(0.932)	82909	50.0000	45.3	
64 1,2-Dibromoethane	107	6.956	6.956	(0.944)	80987	50.0000	50.1	
* 65 Chlorobenzene-d5	117	7.367	7.367	(1.000)	170140	50.0000		
66 Chlorobenzene	112	7.393	7.393	(1.003)	222002	50.0000	47.0	
67 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	80013	50.0000	46.2	
68 Ethylbenzene	106	7.484	7.484	(1.016)	119664	50.0000	46.3	
69 m&p-Xylene	106	7.596	7.596	(1.031)	306122	100.000	97.2	
70 o-Xylene	106	7.896	7.896	(1.072)	147717	50.0000	48.2	
71 Styrene	104	7.918	7.918	(1.075)	259333	50.0000	49.9	
72 Bromoform	173	8.055	8.055	(0.883)	62986	50.0000	41.7	
73 Isopropylbenzene	105	8.183	8.183	(1.111)	378009	50.0000	49.1	
$ 74 4-Bromofluorobenzene	95	8.311	8.311	(1.128)	86733	50.0000	53.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
149 n-amyl acetate	70	8.071	8.071	(1.096)	299254	200.000	208	
75 Bromobenzene	77	8.402	8.402	(1.140)	143484	50.0000	46.0	
76 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	111707	50.0000	48.8	
77 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	29411	50.0000	49.0	
78 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	37454	50.0000	49.6	
79 n-Propylbenzene	91	8.489	8.489	(0.931)	433274	50.0000	51.6	
80 2-Chlorotoluene	91	8.544	8.544	(0.937)	258341	50.0000	48.6	
81 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	312002	50.0000	48.5	
82 4-Chlorotoluene	126	8.633	8.633	(0.947)	97394	50.0000	47.9	
83 tert-Butylbenzene	119	8.834	8.834	(0.969)	292851	50.0000	42.0	
84 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	325245	50.0000	48.7	
85 sec-Butylbenzene	105	8.984	8.984	(0.985)	369191	50.0000	49.0	
86 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	194691	50.0000	47.1	
87 p-Isopropyltoluene	119	9.092	9.092	(0.997)	319369	50.0000	49.0	
* 88 1,4-Dichlorobenzene-d4	152	9.118	9.118	(1.000)	103198	50.0000		
89 1,4-Dichlorobenzene	146	9.134	9.134	(1.002)	197307	50.0000	44.1	
90 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	191435	50.0000	46.9	
91 n-Butylbenzene	91	9.357	9.357	(1.026)	255944	50.0000	48.3	
92 1,2-Dibromo-3-chloropropane	155	9.874	9.874	(1.083)	22430	50.0000	44.0	
93 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	120244	50.0000	46.6	
94 Hexachlorobutadiene	225	10.456	10.456	(1.147)	44414	50.0000	43.7	
95 Naphthalene	128	10.534	10.534	(1.155)	359980	50.0000	46.2	
96 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	114477	50.0000	46.2	
97 2,methyl-naphthalene	142	11.229	11.229	(1.232)	164134	50.0000	45.1	
98 1-Methylnaphthalene	142	11.346	11.346	(1.244)	142274	50.0000	44.8	

QC Flag Legend

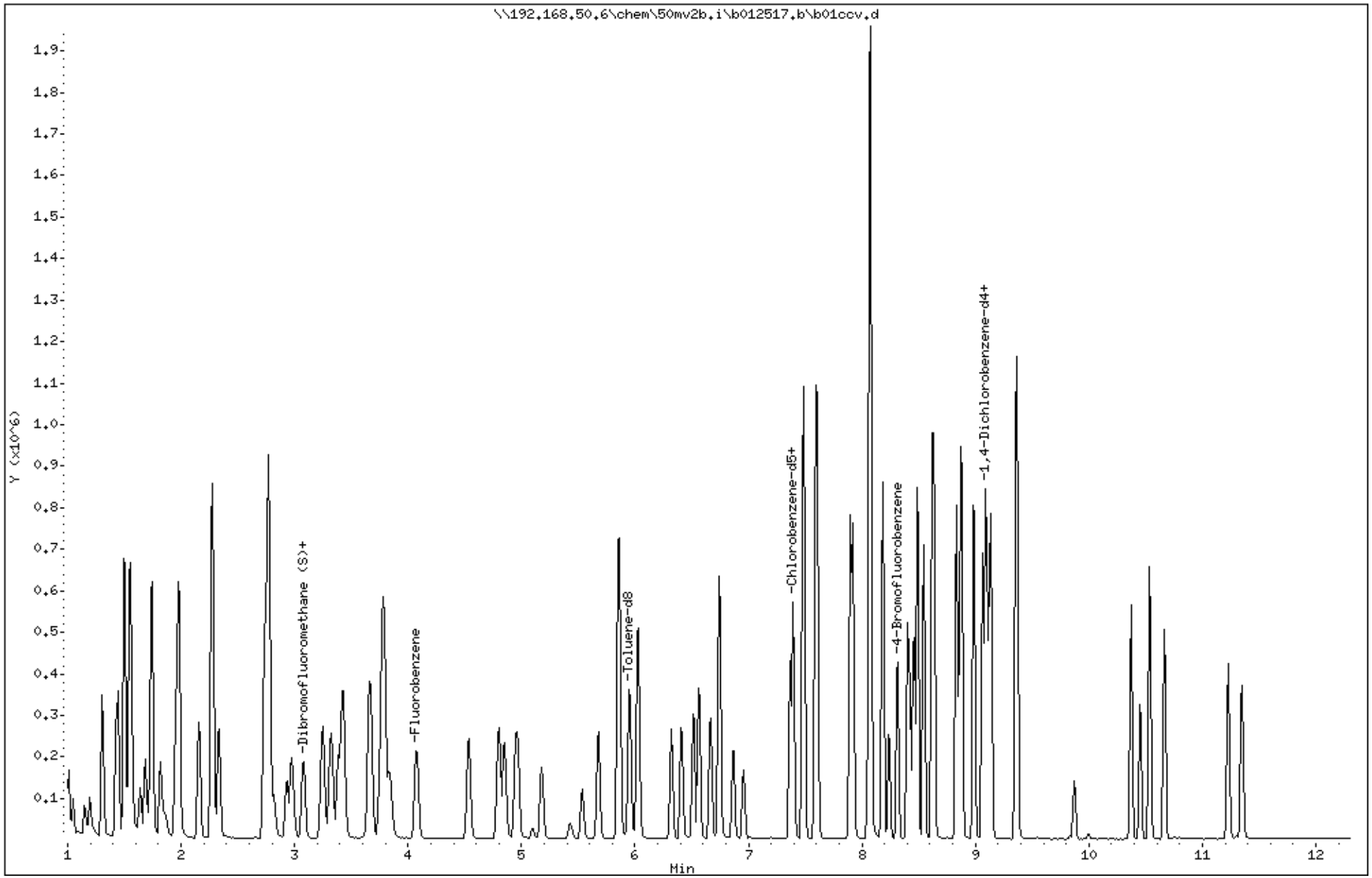
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b01ccv.d
Date : 26-JAN-2017 00:28
Client ID: 8260-CCV
Sample Info: 8260-CCV,140780:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2b.i
Operator: dae
Column diameter: 0.18



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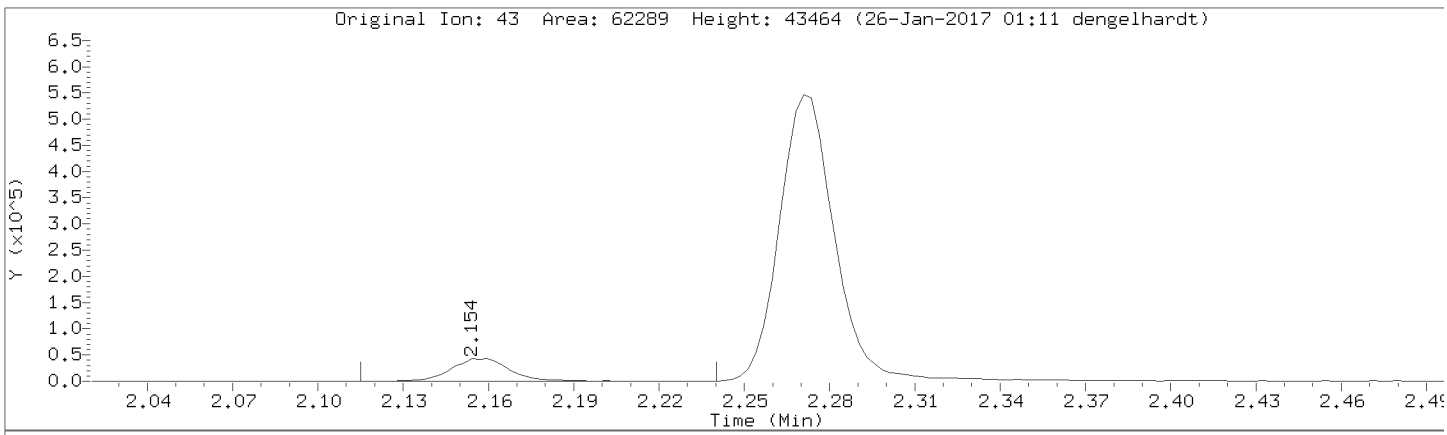
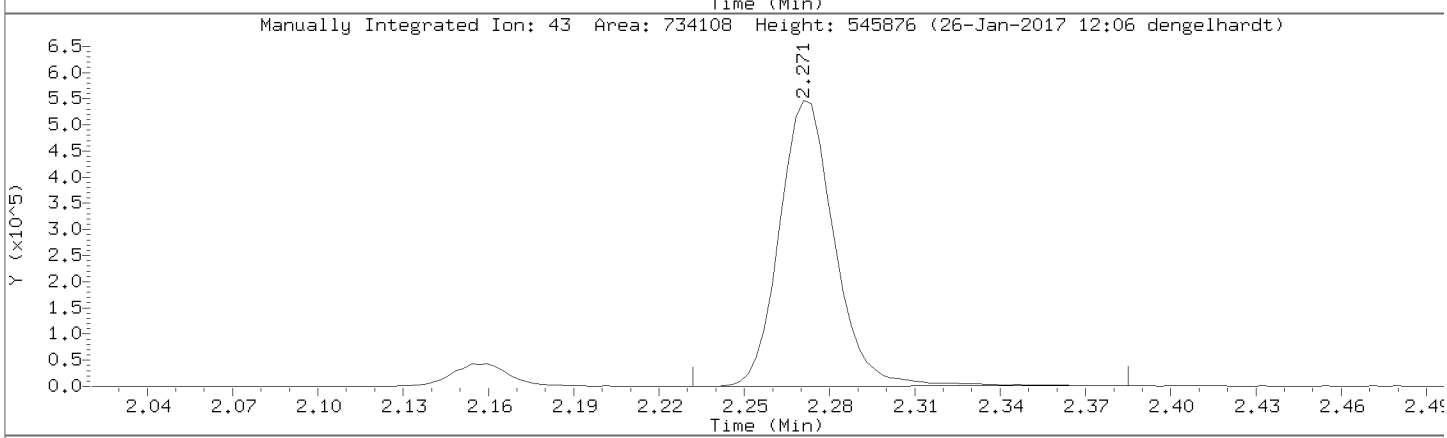
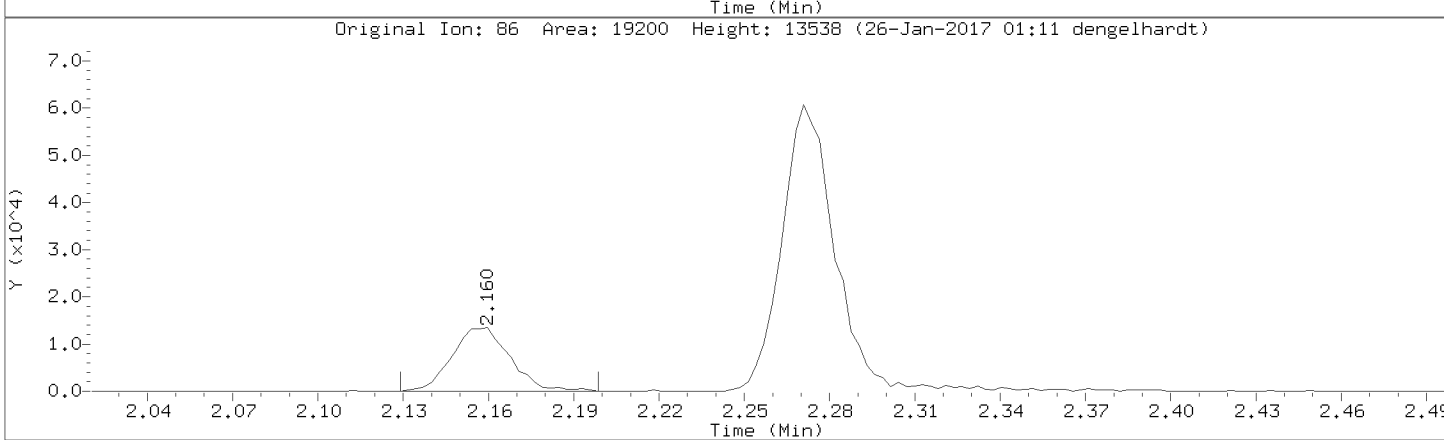
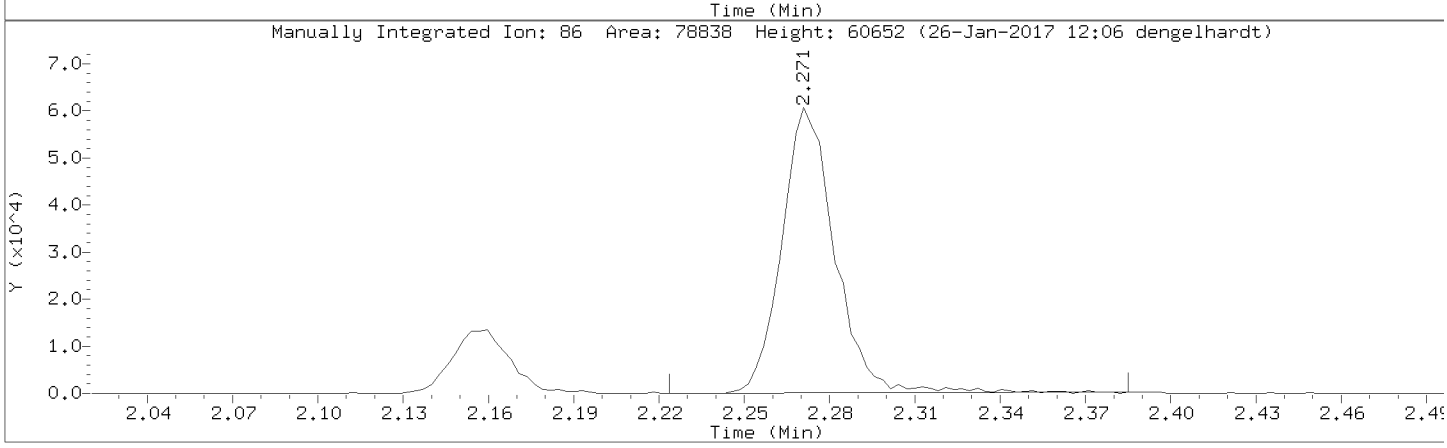
Injection Date: 26-JAN-2017 00:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CCV

Compound: Vinyl Acetate Review Code: WP
CAS Number: 108-05-4









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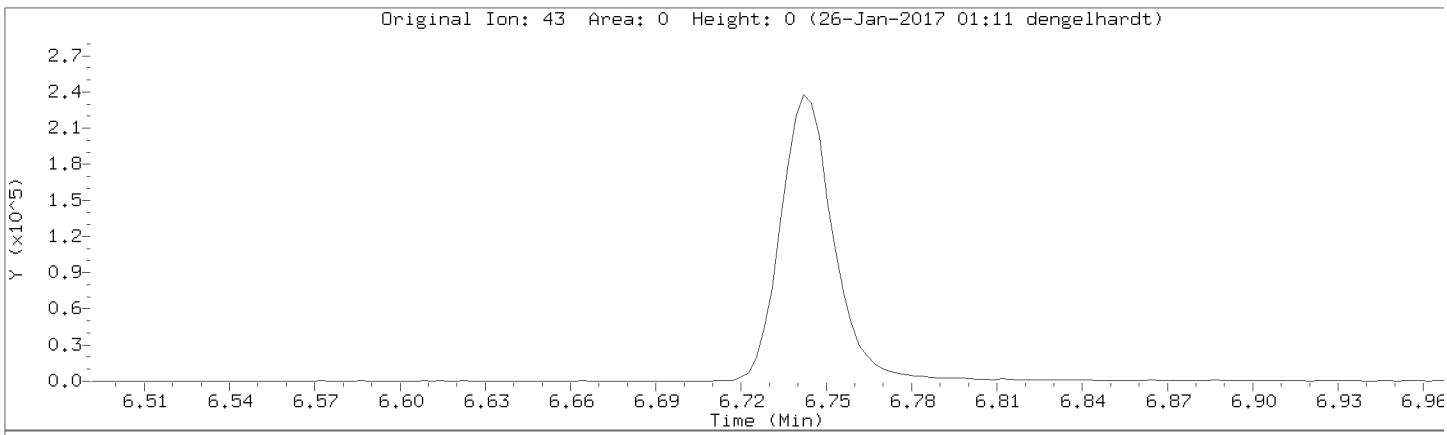
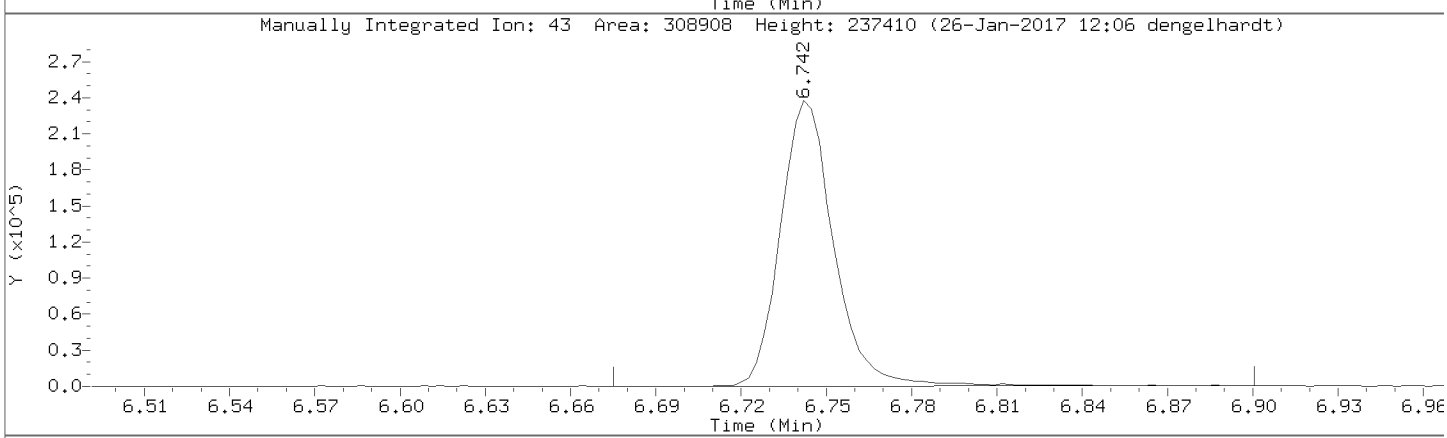
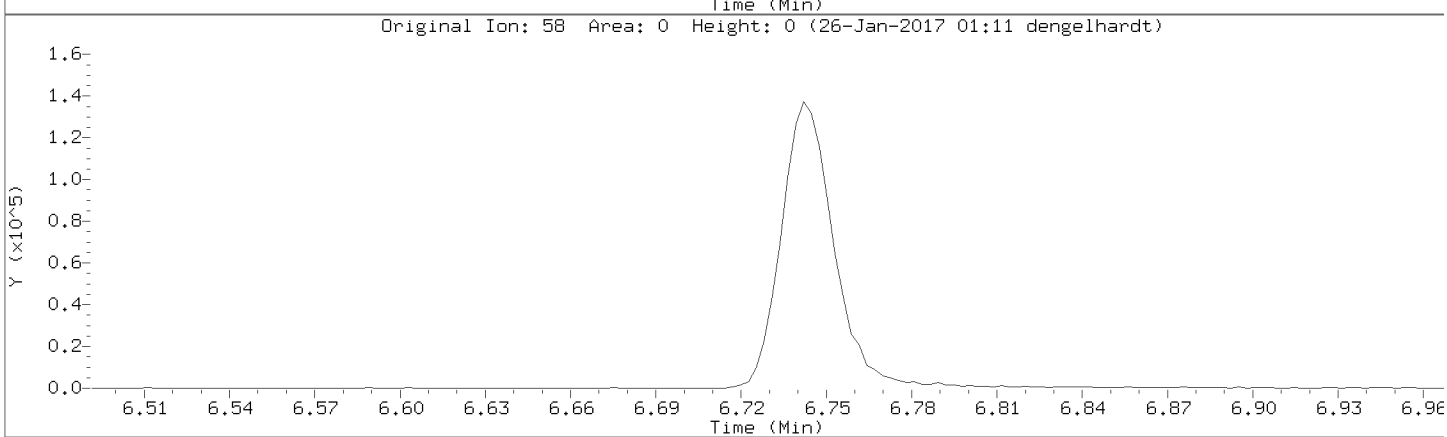
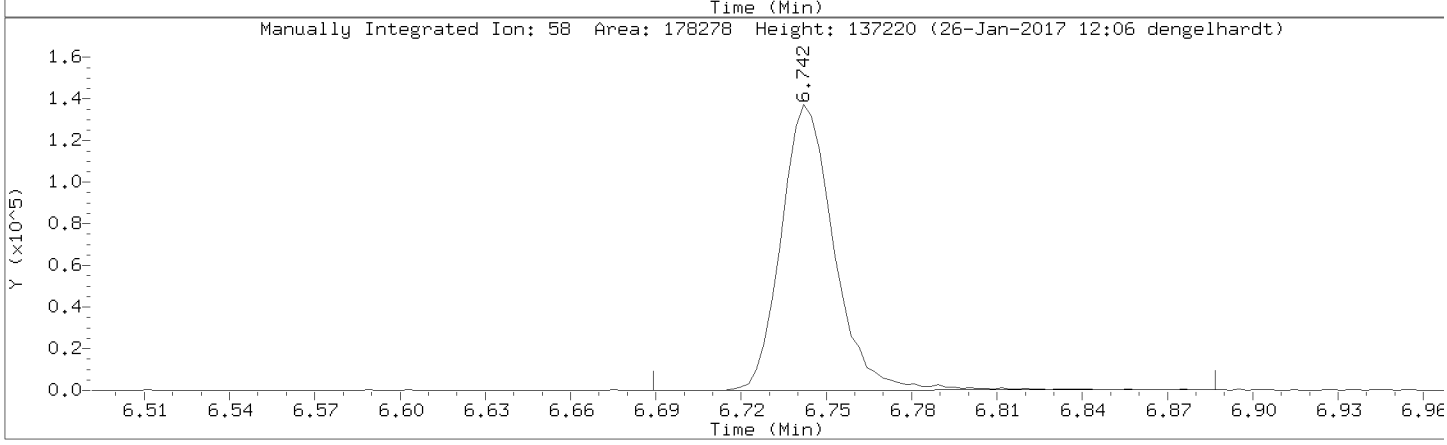
Injection Date: 26-JAN-2017 00:28
Instrument: 50mv2b.i
Lab Sample ID: 8260-CCV

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6









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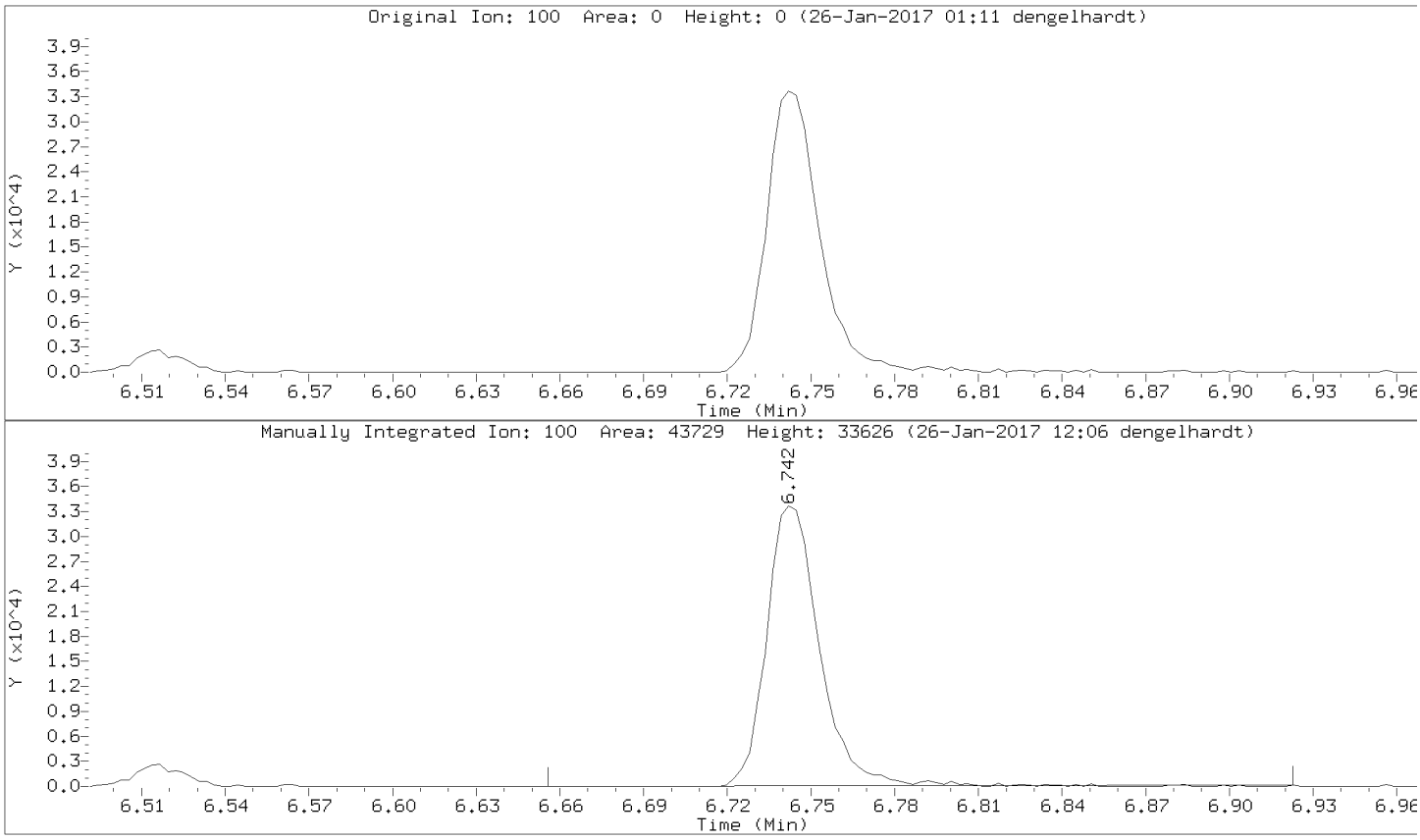
Instrument: 50mv2b.i
Lab Sample ID: 8260-CCV



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Date : 22-JAN-2017 21:22

Client ID: 8260-TUNE

Instrument: 50mv2a.i

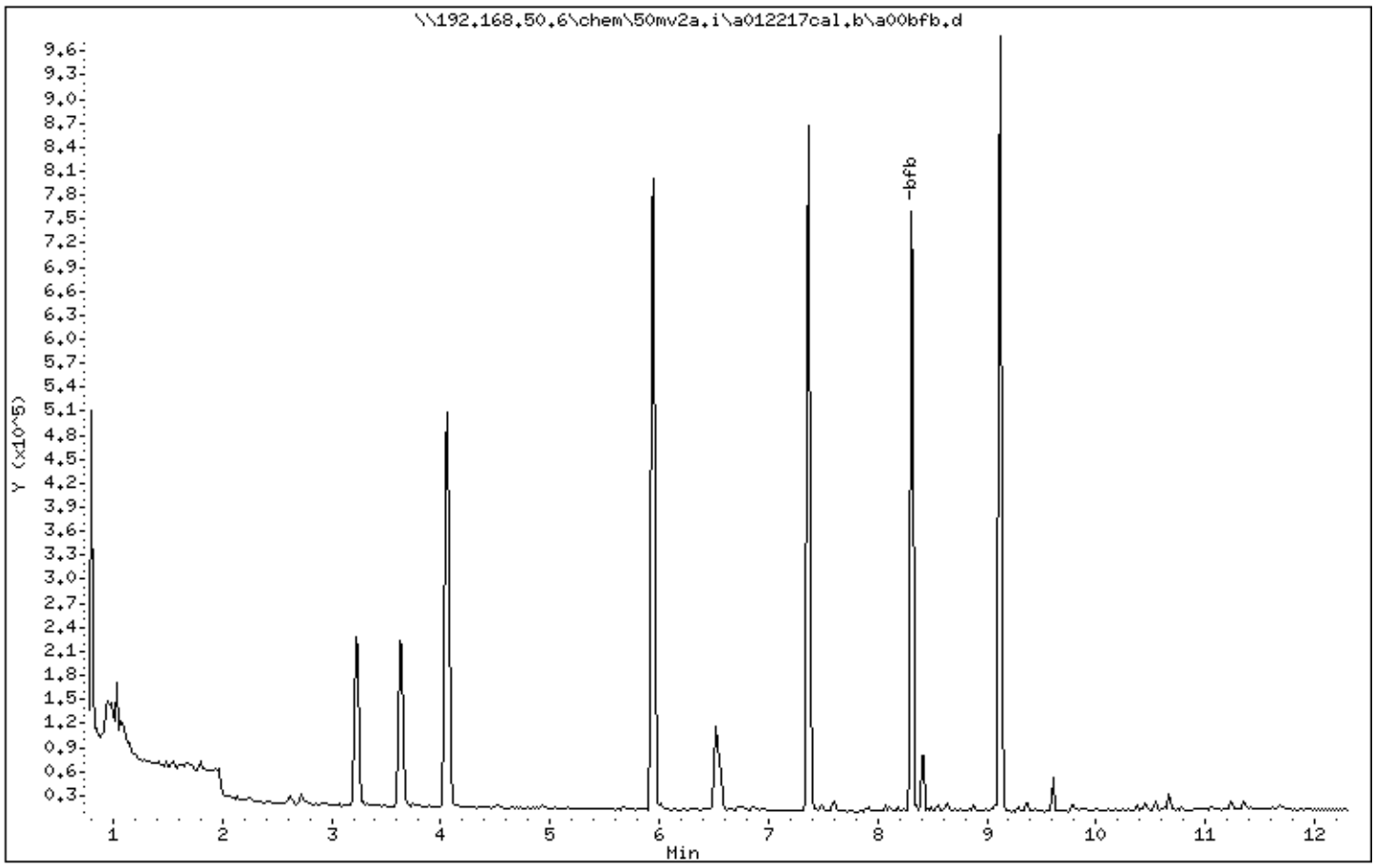
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a00bfb.d

Date : 22-JAN-2017 21:22

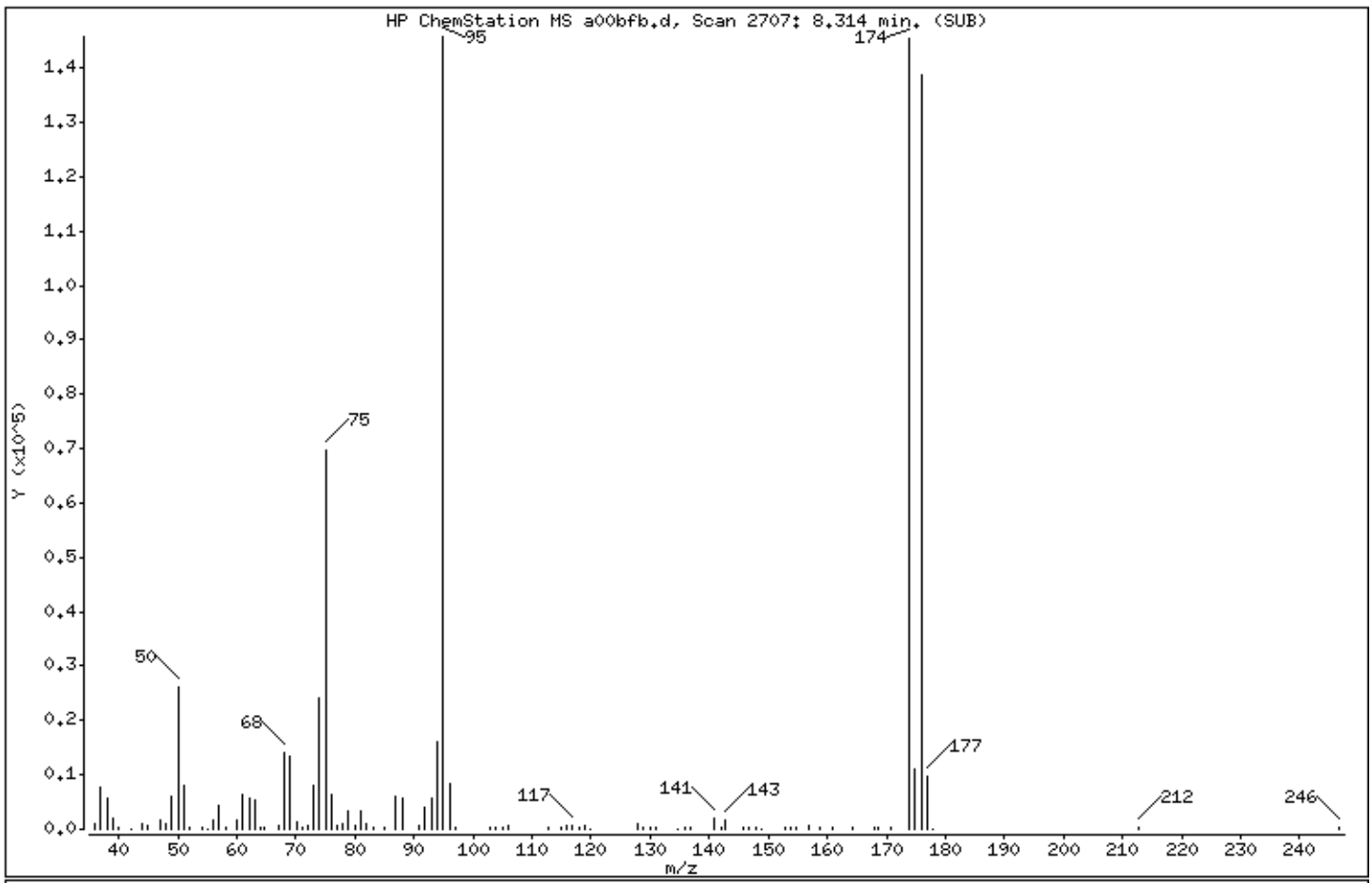
Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 Operator: dae

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.91
75	30.00 - 60.00% of mass 95	47.91
96	5.00 - 9.00% of mass 95	5.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	99.78
175	5.00 - 9.00% of mass 174	7.59 (7.60)
176	95.00 - 101.00% of mass 174	95.22 (95.42)
177	5.00 - 9.00% of mass 176	6.69 (7.03)

Data File: \\192.168.50.6\chem\50mv2a.i\a012217cal.b\a00bfb.d

Date : 22-JAN-2017 21:22

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18

Data File: a00bfb.d
Spectrum: HP ChemStation MS a00bfb.d, Scan 2707: 8.314 min. (SUB)
Location of Maximum: 95.00
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1093	64.70	213	94.00	16037	142.80	1579
37.00	7649	67.10	572	95.00	145792	145.90	425
38.00	5853	68.00	14091	96.00	8230	146.80	292
39.10	2167	69.00	13405	96.90	456	147.90	467
39.90	299	70.10	1305	103.00	239	148.90	154
42.00	117	71.00	220	103.90	445	152.90	211
44.00	1089	72.00	661	105.00	278	153.90	313
45.00	683	73.00	8011	105.90	732	154.70	497
47.10	1668	74.00	24056	112.80	311	156.80	549
48.00	1169	75.00	69848	114.90	302	158.80	414
49.00	5877	76.00	6260	115.90	532	160.90	272
50.00	26104	77.00	559	116.90	746	164.20	197
51.00	8049	77.90	848	117.90	359	168.10	206
52.00	298	78.90	3466	118.90	642	168.70	240
54.10	339	79.90	822	120.00	154	170.80	274
55.00	97	80.90	3387	127.80	839	173.90	145472
56.00	1625	81.90	898	128.80	214	174.90	11063
57.00	4340	83.10	278	129.90	214	175.90	138816
58.10	435	85.00	246	130.90	489	176.90	9752
60.00	1539	86.90	6146	134.70	152	177.90	166
61.00	6494	88.00	5823	136.00	170	212.60	183
62.00	5594	91.00	596	136.80	204	246.60	176
63.00	5256	91.90	3935	140.80	2129		
64.00	454	93.00	5758	142.00	252		

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a00bfb.d

Date : 24-JAN-2017 22:41

Client ID: 8260-TUNE

Instrument: 50mv2a.i

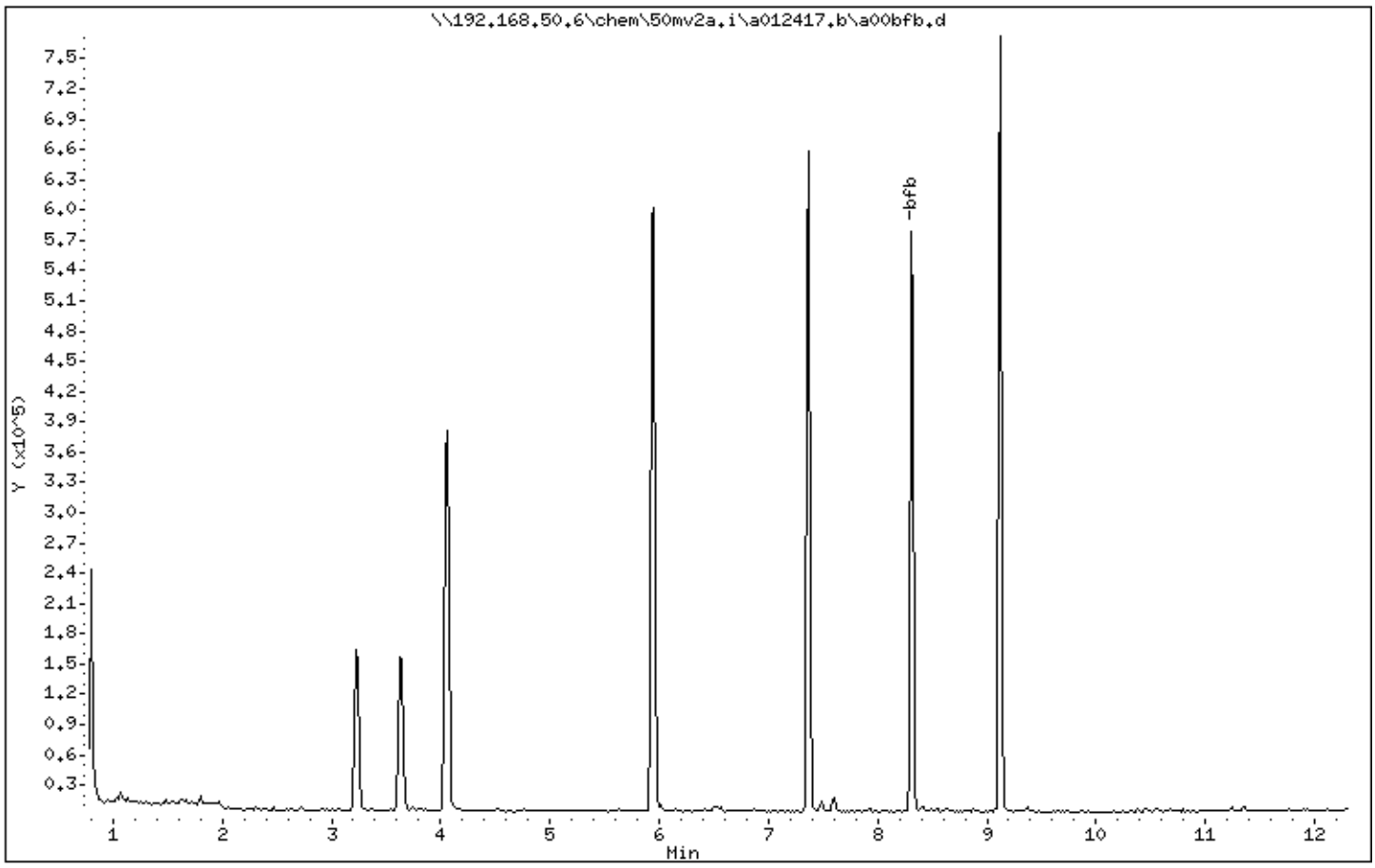
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a00bfb.d

Date : 24-JAN-2017 22:41

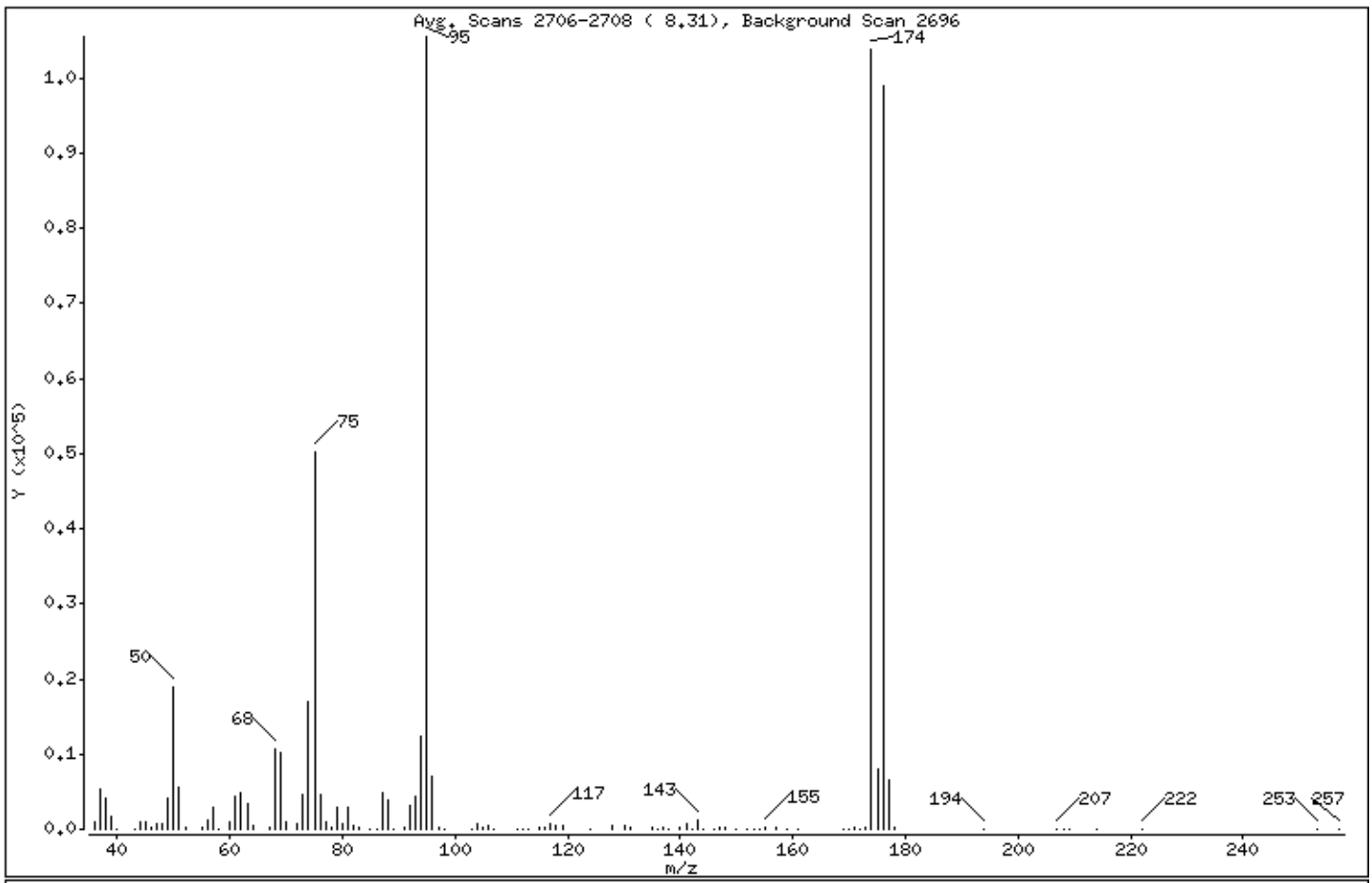
Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 Operator: dae

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.91
75	30.00 - 60.00% of mass 95	47.64
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.33 (0.34)
174	50.00 - 100.00% of mass 95	98.38
175	5.00 - 9.00% of mass 174	7.52 (7.64)
176	95.00 - 101.00% of mass 174	93.73 (95.28)
177	5.00 - 9.00% of mass 176	6.31 (6.73)

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a00bfb.d

Date : 24-JAN-2017 22:41

Client ID: 8260-TUNE | Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 | Operator: dae

Column phase: DB-624 | Column diameter: 0.18

Data File: a00bfb.d
Spectrum: Avg. Scans 2706-2708 (8.31), Background Scan 2696
Location of Maximum: 95.00
Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	914	72.00	619	106.00	428	153.00	57
37.00	5328	73.00	4729	107.00	66	154.00	72
38.00	4007	74.00	16952	111.00	74	155.00	336
39.00	1662	75.00	50272	112.00	96	157.00	233
40.00	100	76.00	4702	113.00	103	159.00	83
43.00	56	77.00	877	115.00	188	161.00	120
44.00	864	78.00	352	116.00	169	169.00	75
45.00	1081	79.00	2931	117.00	611	170.00	105
46.00	150	80.00	651	118.00	368	171.00	193
47.00	812	81.00	2881	119.00	598	172.00	53
48.00	693	82.00	528	124.00	117	173.00	353
49.00	4064	83.00	127	128.00	385	174.00	103816
50.00	18896	85.00	50	130.00	591	175.00	7932
51.00	5625	86.00	102	131.00	214	176.00	98912
52.00	156	87.00	4932	135.00	162	177.00	6654
55.00	302	88.00	3872	136.00	63	178.00	188
56.00	1288	89.00	84	137.00	131	194.00	51
57.00	2819	91.00	257	138.00	54	207.00	119
58.00	53	92.00	3034	140.00	269	208.00	65
60.00	1048	93.00	4474	141.00	817	209.00	63
61.00	4290	94.00	12475	142.00	78	214.00	54
62.00	4750	95.00	105528	143.00	1301	222.00	50
63.00	3502	96.00	6955	144.00	54	253.00	64
64.00	428	97.00	157	146.00	60	257.00	65
67.00	182	98.00	60	147.00	133		
68.00	10644	103.00	115	148.00	243		
69.00	10129	104.00	653	150.00	61		
70.00	850	105.00	170	152.00	52		

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c00bfb.d

Date : 25-JAN-2017 10:44

Client ID: 8260-TUNE

Instrument: 50mv2a.i

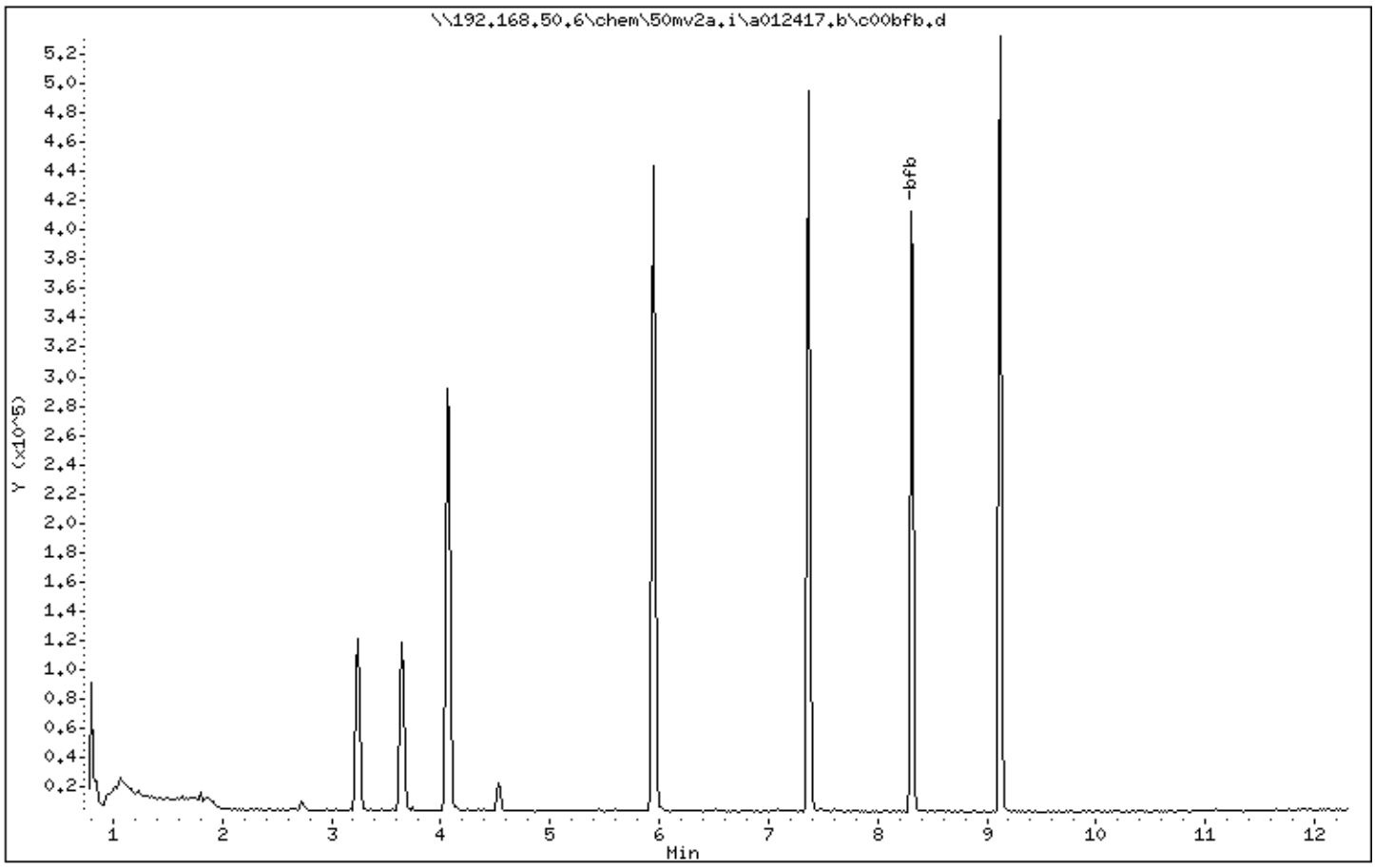
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c00bfb.d

Date : 25-JAN-2017 10:44

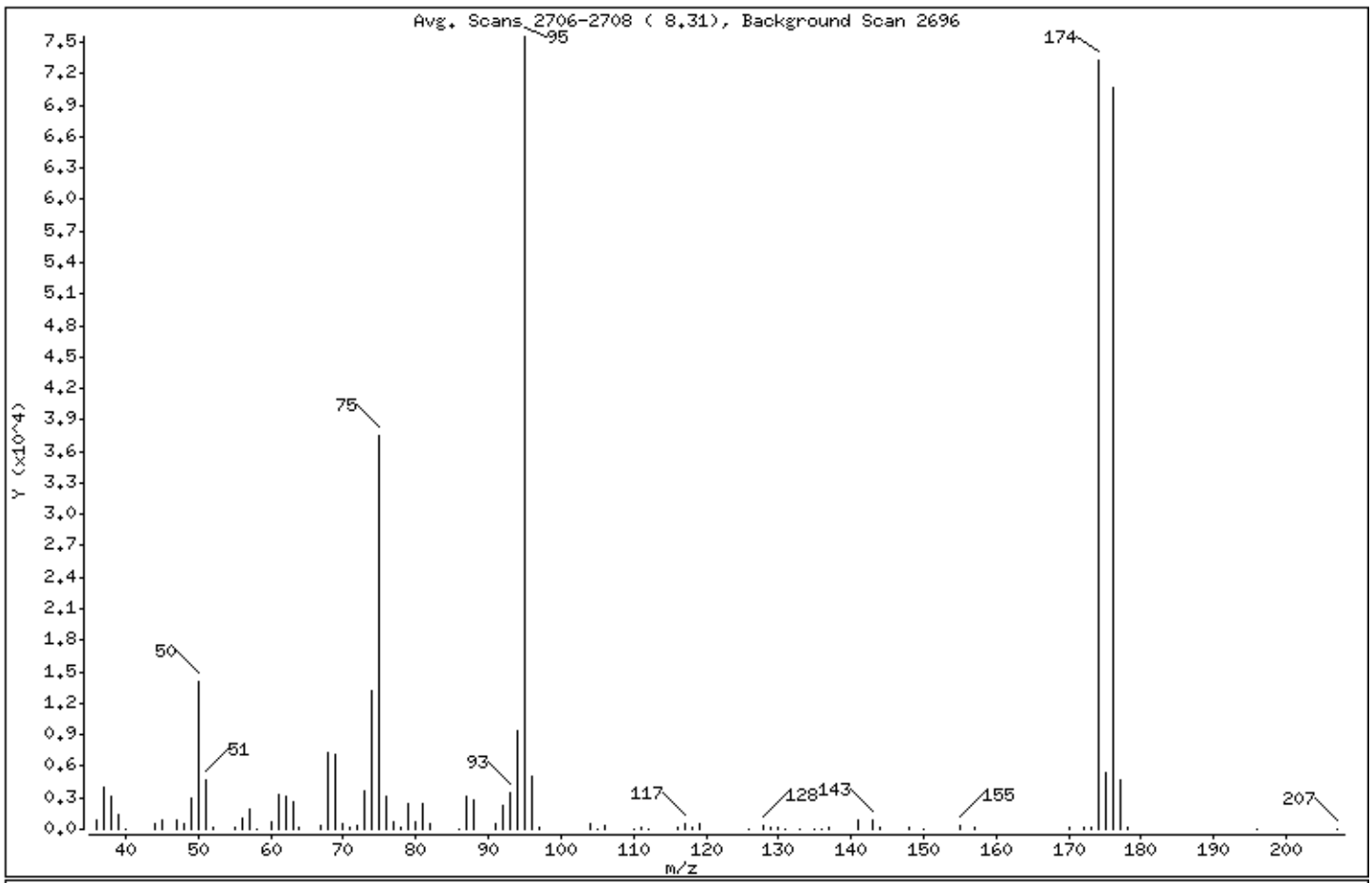
Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 Operator: dae

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.57
75	30.00 - 60.00% of mass 95	49.62
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.14 (0.14)
174	50.00 - 100.00% of mass 95	97.00
175	5.00 - 9.00% of mass 174	7.09 (7.30)
176	95.00 - 101.00% of mass 174	93.47 (96.36)
177	5.00 - 9.00% of mass 176	6.31 (6.75)

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c00bfb.d

Date : 25-JAN-2017 10:44

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18

Data File: c00bfb.d
Spectrum: Avg. Scans 2706-2708 (8.31), Background Scan 2696
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	806	67.00	268	94.00	9321	137.00	157
37.00	3942	68.00	7289	95.00	75520	141.00	790
38.00	3060	69.00	7164	96.00	4985	143.00	851
39.00	1446	70.00	509	97.00	193	144.00	112
40.00	11	71.00	147	104.00	493	148.00	156
44.00	444	72.00	353	105.00	57	150.00	70
45.00	807	73.00	3605	106.00	381	155.00	319
47.00	920	74.00	13256	110.00	58	157.00	146
48.00	483	75.00	37472	111.00	98	170.00	95
49.00	2910	76.00	3055	112.00	53	172.00	184
50.00	14023	77.00	744	116.00	257	173.00	105
51.00	4757	78.00	199	117.00	581	174.00	73256
52.00	155	79.00	2458	118.00	207	175.00	5351
55.00	151	80.00	646	119.00	523	176.00	70592
56.00	981	81.00	2440	126.00	60	177.00	4763
57.00	1953	82.00	501	128.00	337	178.00	177
58.00	56	86.00	65	129.00	125	196.00	50
60.00	768	87.00	3147	130.00	232	207.00	70
61.00	3296	88.00	2725	131.00	51		
62.00	3081	91.00	544	133.00	69		
63.00	2550	92.00	2260	135.00	80		
64.00	260	93.00	3557	136.00	52		

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a00bfb.d

Date : 25-JAN-2017 23:39

Client ID: 8260-TUNE

Instrument: 50mv2a.i

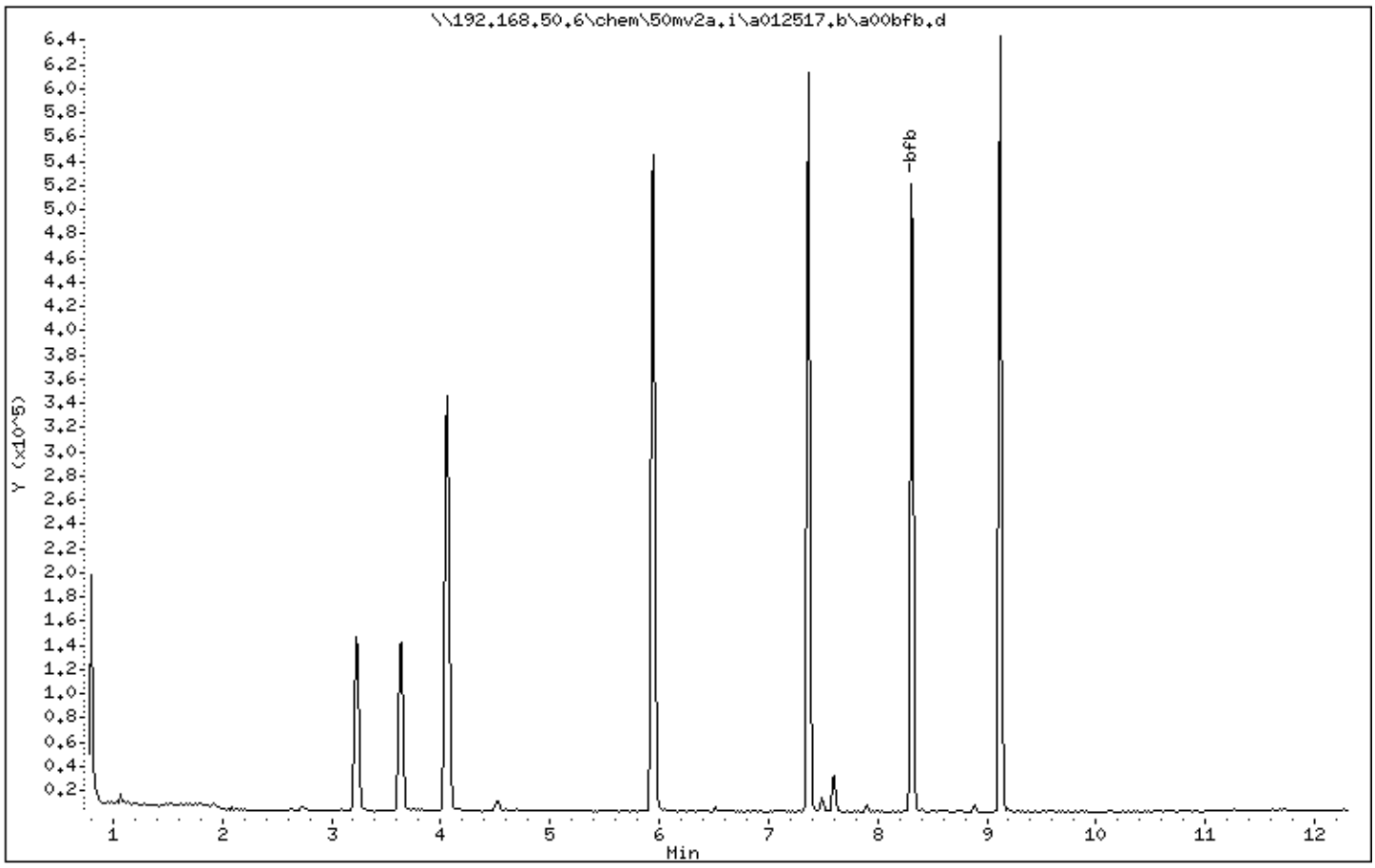
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a00bfb.d

Date : 25-JAN-2017 23:39

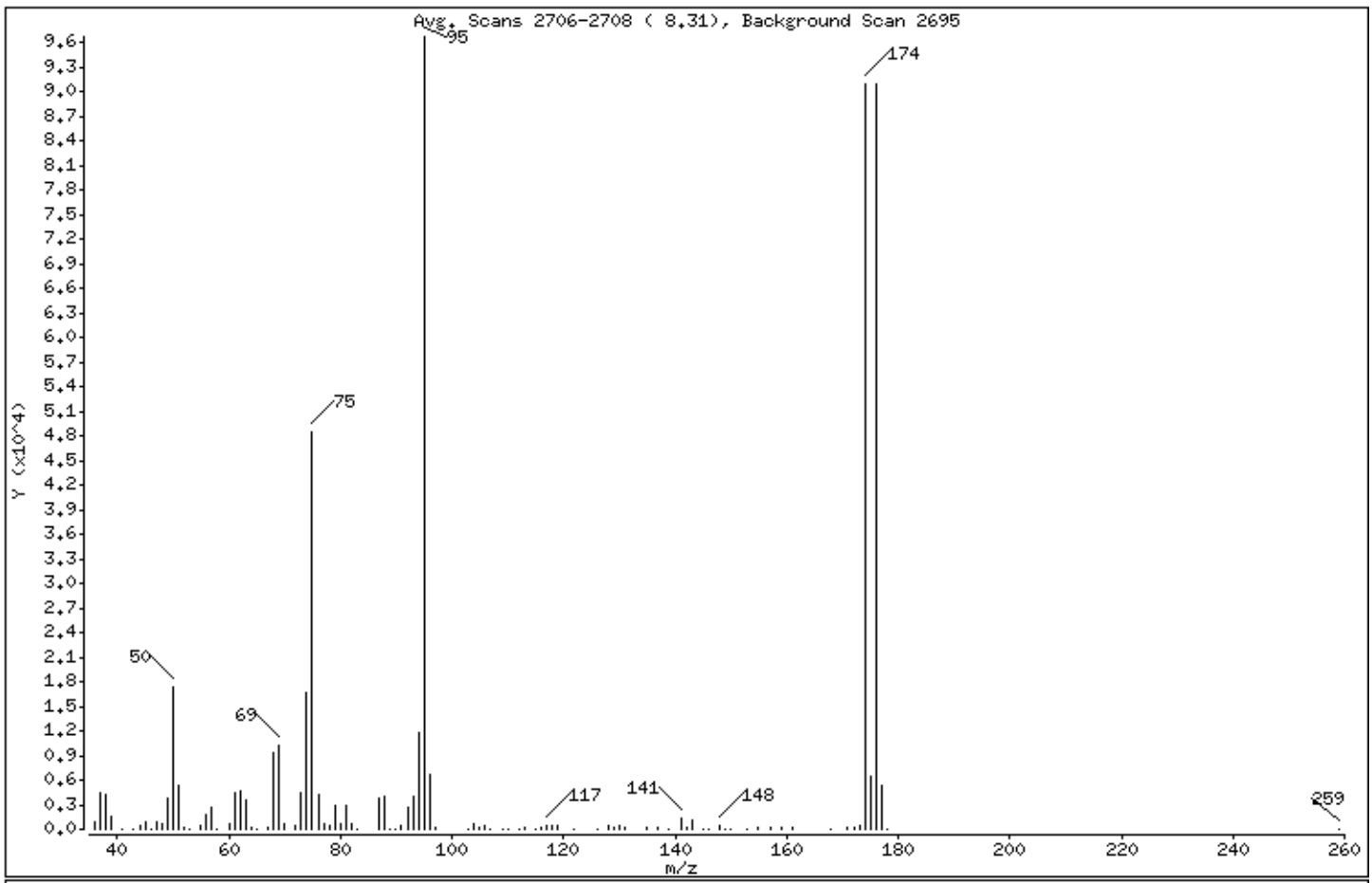
Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 Operator: dae

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.93
75	30.00 - 60.00% of mass 95	50.07
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.43 (0.46)
174	50.00 - 100.00% of mass 95	94.09
175	5.00 - 9.00% of mass 174	6.68 (7.10)
176	95.00 - 101.00% of mass 174	93.94 (99.83)
177	5.00 - 9.00% of mass 176	5.54 (5.90)

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a00bfb.d

Date : 25-JAN-2017 23:39

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18

Data File: a00bfb.d
Spectrum: Avg. Scans 2706-2708 (8.31), Background Scan 2695
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	998	65.00	51	95.00	96704	139.00	78
37.00	4413	67.00	223	96.00	6654	141.00	1231
38.00	4249	68.00	9399	97.00	168	142.00	135
39.00	1606	69.00	10170	103.00	100	143.00	1188
41.00	74	70.00	646	104.00	622	145.00	101
43.00	68	72.00	470	105.00	120	146.00	51
44.00	542	73.00	4374	106.00	553	148.00	352
45.00	794	74.00	16696	107.00	73	149.00	73
46.00	55	75.00	48424	109.00	53	150.00	75
47.00	823	76.00	4299	110.00	54	153.00	88
48.00	562	77.00	631	112.00	72	155.00	145
49.00	3679	78.00	514	113.00	125	157.00	263
50.00	17336	79.00	2829	115.00	52	159.00	157
51.00	5325	80.00	663	116.00	320	161.00	306
52.00	277	81.00	2892	117.00	512	168.00	90
53.00	52	82.00	570	118.00	361	171.00	186
55.00	339	83.00	82	119.00	414	172.00	125
56.00	1804	87.00	3830	122.00	57	173.00	416
57.00	2668	88.00	4004	126.00	52	174.00	90992
58.00	92	89.00	51	128.00	355	175.00	6460
60.00	712	90.00	55	129.00	146	176.00	90840
61.00	4425	91.00	352	130.00	364	177.00	5359
62.00	4648	92.00	2761	131.00	114	178.00	109
63.00	3638	93.00	4060	135.00	315	259.00	52
64.00	328	94.00	11813	137.00	130		

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b00bfb.d

Date : 22-JAN-2017 21:38

Client ID: 8260-TUNE

Instrument: 50mv2b.i

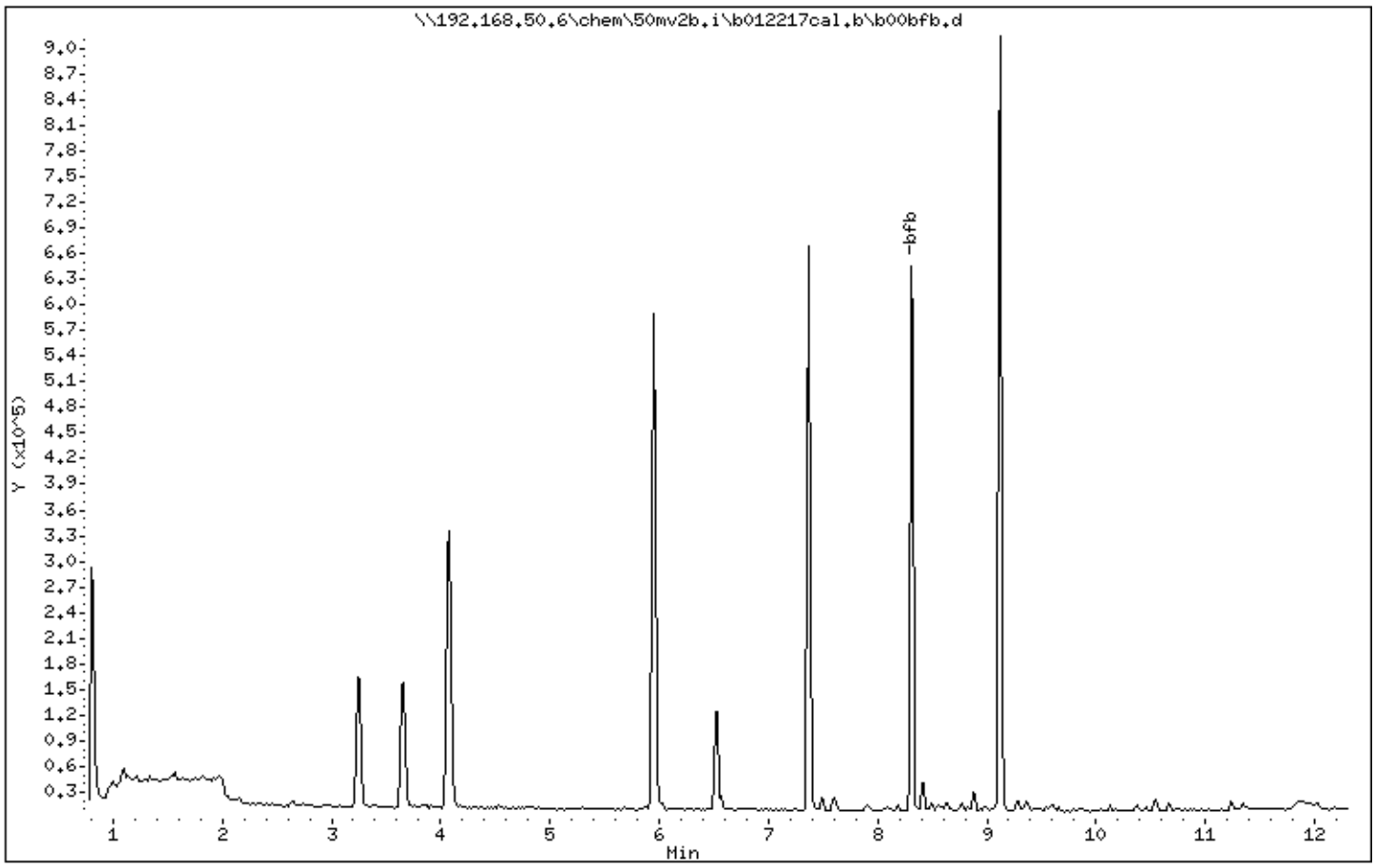
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b00bfb.d

Date : 22-JAN-2017 21:38

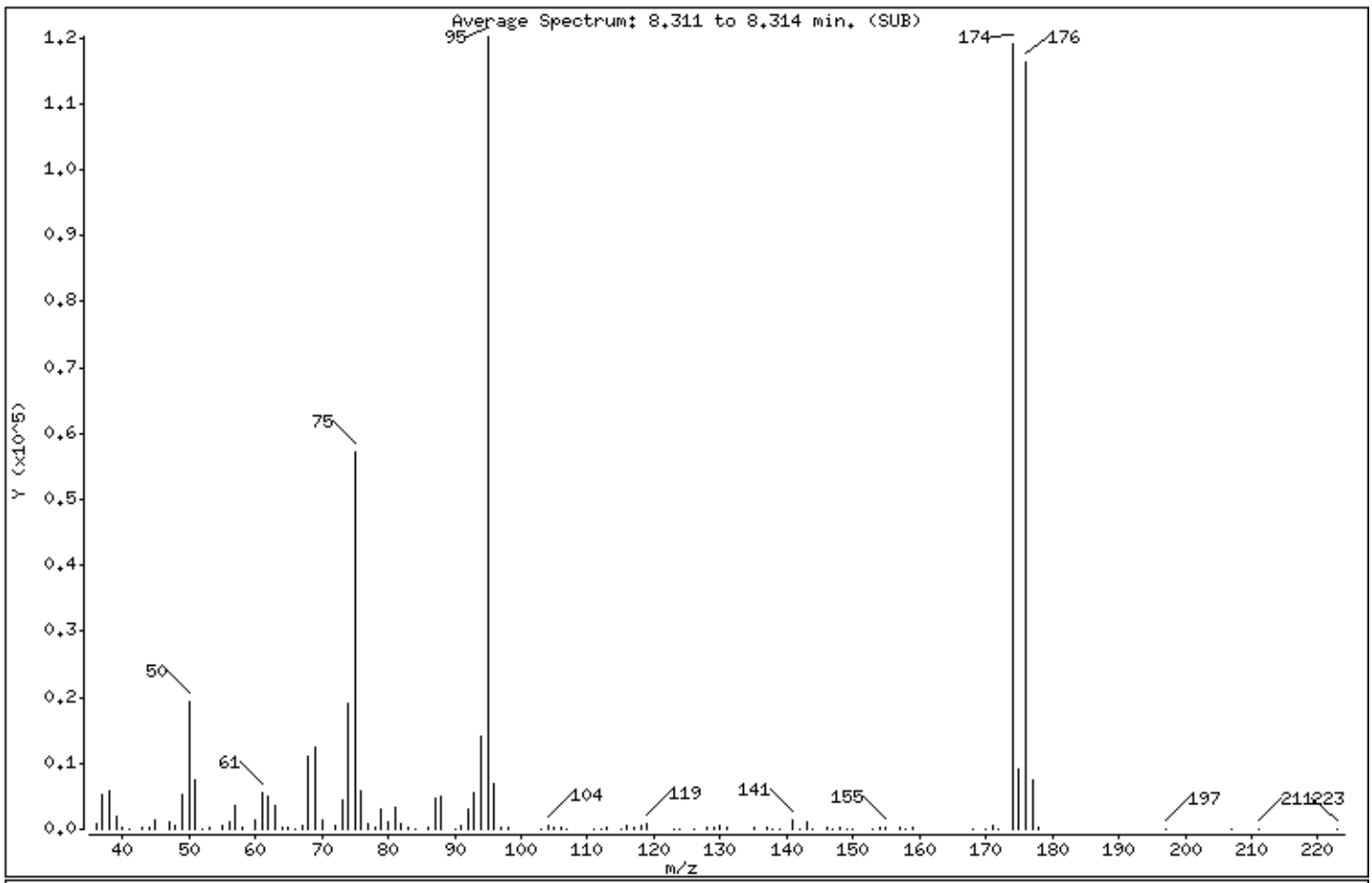
Client ID: 8260-TUNE Instrument: 50mv2b.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 Operator: dae

Column phase: DB-624 Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.08
75	30.00 - 60.00% of mass 95	47.59
96	5.00 - 9.00% of mass 95	5.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	99.02
175	5.00 - 9.00% of mass 174	7.48 (7.56)
176	95.00 - 101.00% of mass 174	96.85 (97.81)
177	5.00 - 9.00% of mass 176	6.25 (6.45)

Data File: \\192.168.50.6\chem\50mv2b.i\b012217cal.b\b00bfb.d

Date : 22-JAN-2017 21:38

Client ID: 8260-TUNE | Instrument: 50mv2b.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0 | Operator: dae

Column phase: DB-624 | Column diameter: 0.18

Data File: b00bfb.d
Spectrum: Average Spectrum: 8.311 to 8.314 min. (SUB)
Location of Maximum: 95.00
Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	820	68.00	11132	103.00	91	146.00	203
37.00	5228	69.00	12354	104.00	643	147.00	80
38.00	5689	70.00	1316	105.00	157	148.00	313
39.00	1941	72.00	548	106.00	308	149.00	82
40.00	188	73.00	4383	107.00	134	150.00	118
41.00	133	74.00	18968	111.00	80	153.00	109
43.00	277	75.00	57176	112.00	84	154.00	206
44.00	390	76.00	5883	113.00	194	155.00	342
45.00	1275	77.00	961	115.00	78	157.00	301
47.00	1004	78.00	398	116.00	479	158.00	76
48.00	659	79.00	3114	117.00	232	159.00	257
49.00	5280	80.00	1224	118.00	471	168.00	90
50.00	19312	81.00	3185	119.00	730	170.00	83
51.00	7566	82.00	845	123.00	75	171.00	496
52.00	83	83.00	282	124.00	76	172.00	134
53.00	145	84.00	108	126.00	105	174.00	118976
55.00	525	86.00	254	128.00	313	175.00	8993
56.00	1224	87.00	4711	129.00	140	176.00	116368
57.00	3620	88.00	4844	130.00	503	177.00	7510
58.00	211	90.00	75	131.00	328	178.00	299
60.00	1401	91.00	673	135.00	262	197.00	85
61.00	5610	92.00	3167	137.00	183	207.00	78
62.00	4922	93.00	5485	138.00	96	211.00	79
63.00	3621	94.00	14224	139.00	90	223.00	81
64.00	400	95.00	120152	141.00	1270		
65.00	211	96.00	6951	142.00	102		
66.00	89	97.00	321	143.00	980		
67.00	460	98.00	210	144.00	80		

Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b00bfb.d

Date : 25-JAN-2017 23:55

Client ID: 8260-TUNE

Instrument: 50mv2b.i

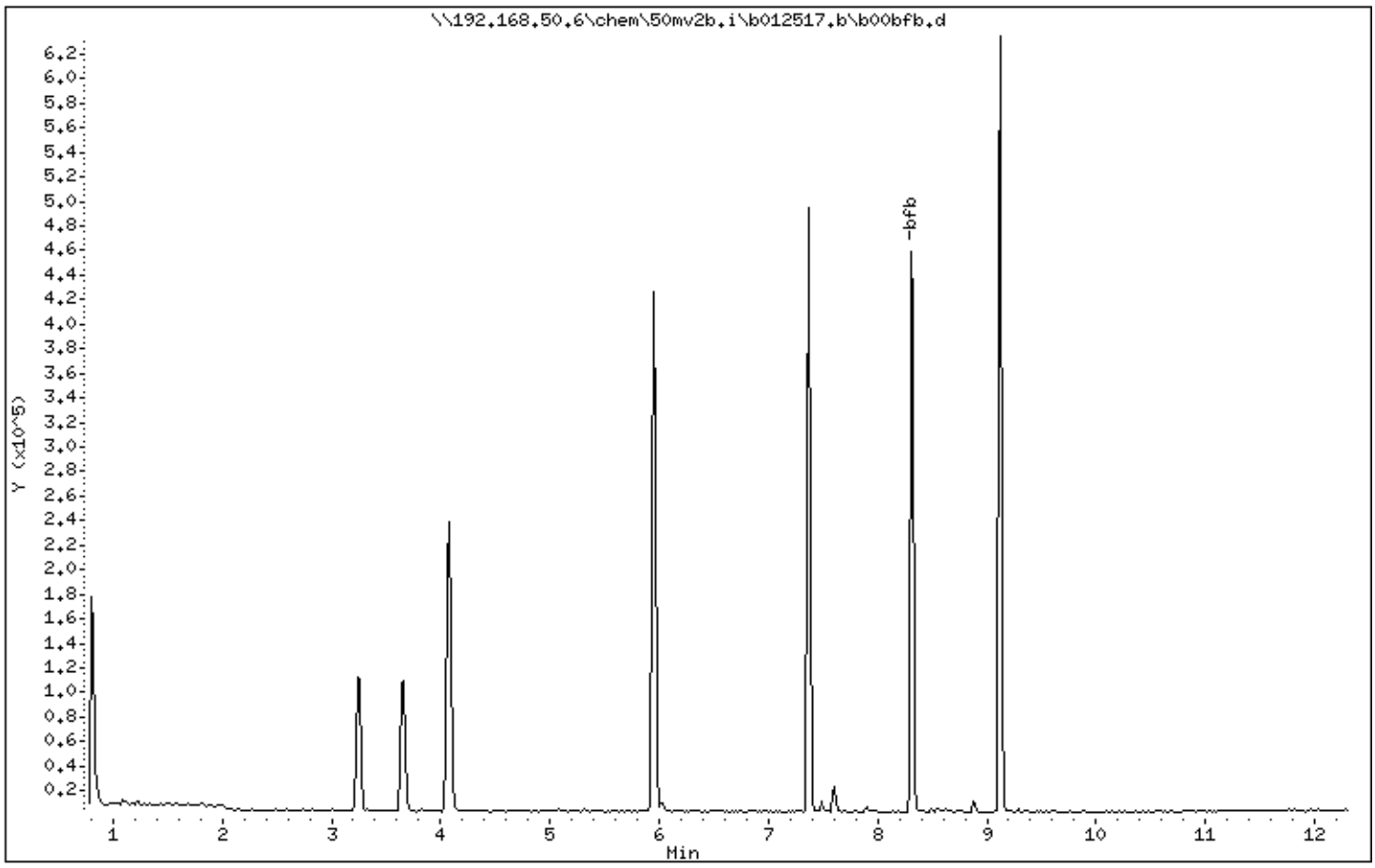
Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b00bfb.d

Date : 25-JAN-2017 23:55

Client ID: 8260-TUNE

Instrument: 50mv2b.i

Sample Info: 8260-TUNE,139073:0

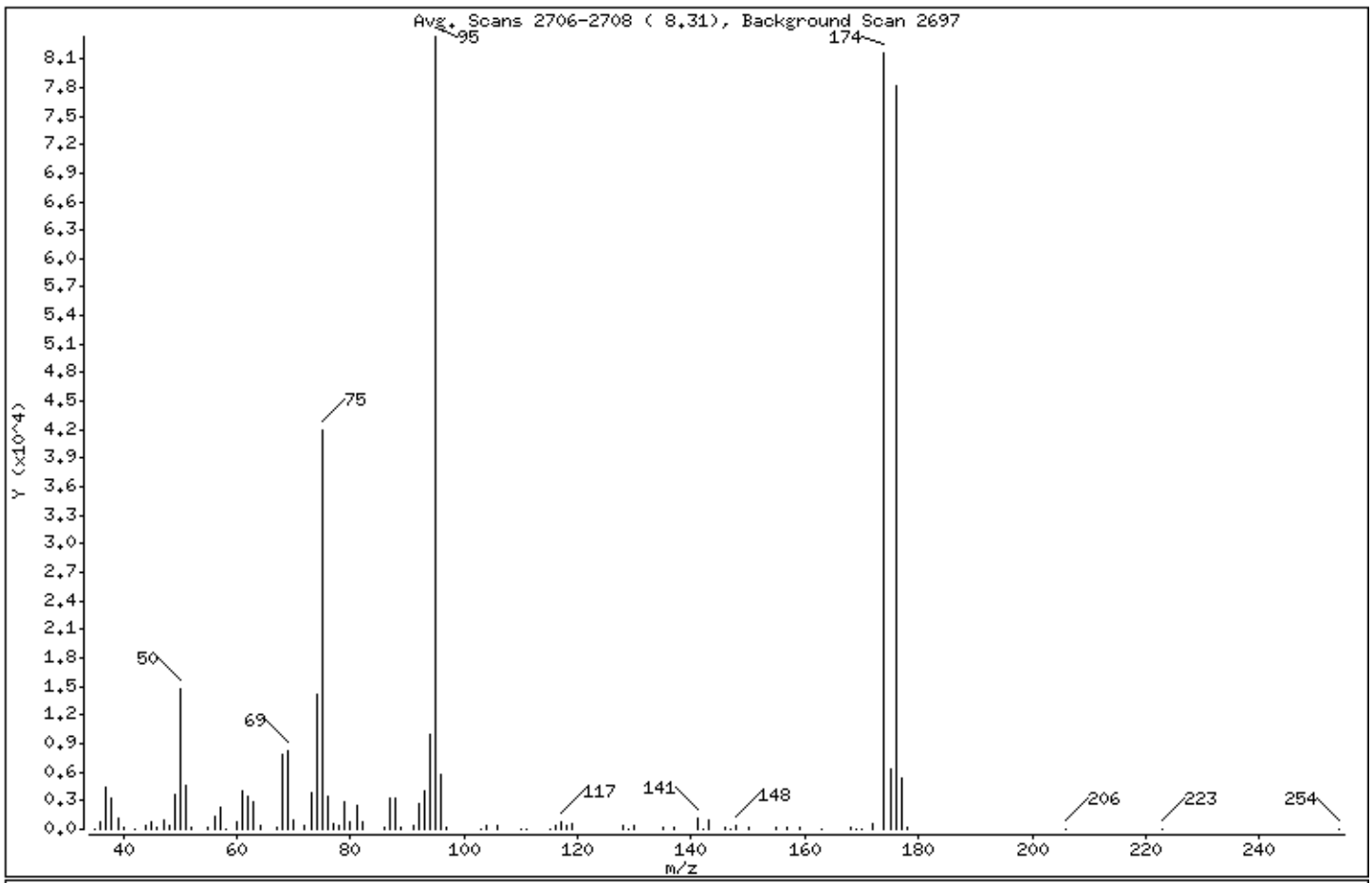
Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.81
75	30.00 - 60.00% of mass 95	50.36
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	97.84
175	5.00 - 9.00% of mass 174	7.69 (7.86)
176	95.00 - 101.00% of mass 174	93.70 (95.77)
177	5.00 - 9.00% of mass 176	6.35 (6.78)

Data File: \\192.168.50.6\chem\50mv2b.i\b012517.b\b00bfb.d

Date : 25-JAN-2017 23:55

Client ID: 8260-TUNE

Instrument: 50mv2b.i

Sample Info: 8260-TUNE,139073:0

Volume Injected (uL): 5.0

Operator: dae

Column phase: DB-624

Column diameter: 0.18

Data File: b00bfb.d
Spectrum: Avg. Scans 2706-2708 (8.31), Background Scan 2697
Location of Maximum: 95.00
Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	53	63.00	2954	93.00	3954	146.00	195
36.00	729	64.00	316	94.00	10008	147.00	52
37.00	4370	67.00	197	95.00	83344	148.00	298
38.00	3287	68.00	7834	96.00	5778	150.00	114
39.00	1122	69.00	8295	97.00	174	155.00	160
40.00	277	70.00	880	103.00	53	157.00	148
42.00	72	72.00	439	104.00	408	159.00	170
44.00	473	73.00	3871	106.00	441	163.00	66
45.00	736	74.00	14249	110.00	51	168.00	113
46.00	137	75.00	41968	111.00	53	169.00	54
47.00	932	76.00	3401	115.00	85	170.00	60
48.00	456	77.00	517	116.00	308	172.00	500
49.00	3663	78.00	336	117.00	716	174.00	81544
50.00	14841	79.00	2913	118.00	313	175.00	6411
51.00	4559	80.00	756	119.00	563	176.00	78096
52.00	170	81.00	2462	128.00	405	177.00	5296
55.00	192	82.00	739	129.00	68	178.00	248
56.00	1355	86.00	115	130.00	425	206.00	71
57.00	2390	87.00	3346	135.00	197	223.00	56
58.00	63	88.00	3275	137.00	223	254.00	83
60.00	799	89.00	108	141.00	1082		
61.00	3979	91.00	329	142.00	87		
62.00	3538	92.00	2635	143.00	906		

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 00:52
Lab Sample ID: 1713790
Date Analyzed: 01/25/2017 00:52
Lab File ID: A012417.B\A04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 00:52
Lab Sample ID: 1713790
Date Analyzed: 01/25/2017 00:52
Lab File ID: A012417.B\A04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\a04mb.d
Lab Smp Id: 1713790 Client Smp ID: 1713790
Inj Date : 25-JAN-2017 00:52
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713790
Misc Info : 99148
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

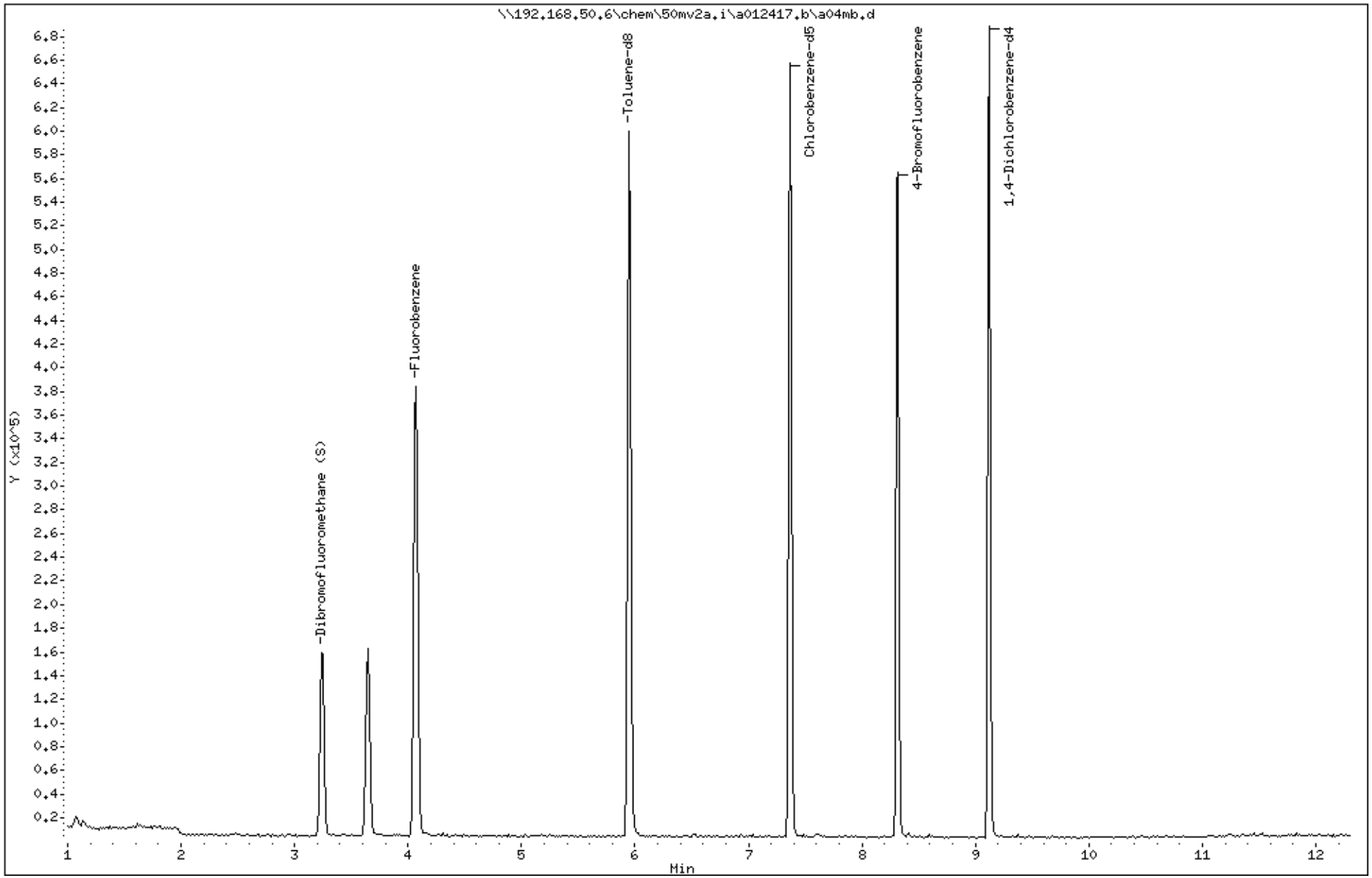
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 36 Dibromofluoromethane (S)	113	3.244	3.239	(0.798)	89560	47.6162	47.6	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	372916	50.0000		
$ 57 Toluene-d8	98	5.948	5.946	(0.807)	355405	50.0808	50.1	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	273352	50.0000		
$ 76 4-Bromofluorobenzene	95	8.311	8.313	(1.128)	119127	49.0101	49.0	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	129437	50.0000		

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a04mb.d
Date : 25-JAN-2017 00:52
Client ID: 1713790
Sample Info: 1713790
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/a04mb.d
Injection Date: 25-JAN-2017 00:52
Instrument: 50mv2a.i
Lab Sample ID: 1713790
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/24/2017 23:46
Lab Sample ID: 1713791
Date Analyzed: 01/24/2017 23:46
Lab File ID: A012417.B\A02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	221	
107-02-8	Acrolein	1250	
107-13-1	Acrylonitrile	177	
71-43-2	Benzene	44.7	
108-86-1	Bromobenzene	44.7	
74-97-5	Bromochloromethane	45.3	
75-27-4	Bromodichloromethane	43.4	
75-25-2	Bromoform	38.9	
74-83-9	Bromomethane	52.8	
78-93-3	2-Butanone (MEK)	213	
104-51-8	n-Butylbenzene	48.4	
135-98-8	sec-Butylbenzene	48.9	
98-06-6	tert-Butylbenzene	41.0	
75-15-0	Carbon disulfide	42.3	
56-23-5	Carbon tetrachloride	44.1	
108-90-7	Chlorobenzene	44.8	
75-00-3	Chloroethane	48.7	
67-66-3	Chloroform	46.5	
74-87-3	Chloromethane	44.1	
95-49-8	2-Chlorotoluene	48.7	
106-43-4	4-Chlorotoluene	48.7	
124-48-1	Dibromochloromethane	42.7	
106-93-4	1,2-Dibromoethane (EDB)	46.1	
74-95-3	Dibromomethane	44.8	
95-50-1	1,2-Dichlorobenzene	46.6	
541-73-1	1,3-Dichlorobenzene	46.2	
106-46-7	1,4-Dichlorobenzene	43.7	
110-57-6	trans-1,4-Dichloro-2-butene	167	
75-71-8	Dichlorodifluoromethane	56.8	
75-34-3	1,1-Dichloroethane	43.7	
107-06-2	1,2-Dichloroethane	44.6	
75-35-4	1,1-Dichloroethene	43.8	
156-59-2	cis-1,2-Dichloroethene	45.5	
156-60-5	trans-1,2-Dichloroethene	44.8	
78-87-5	1,2-Dichloropropane	43.5	
142-28-9	1,3-Dichloropropane	47.6	
594-20-7	2,2-Dichloropropane	44.9	

SAMPLE NO.

LCS

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/24/2017 23:46
Lab Sample ID: 1713791
Date Analyzed: 01/24/2017 23:46
Lab File ID: A012417.B\A02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	47.4	
10061-01-5	cis-1,3-Dichloropropene	44.8	
10061-02-6	trans-1,3-Dichloropropene	44.5	
100-41-4	Ethylbenzene	46.7	
97-63-2	Ethyl methacrylate	180	
87-68-3	Hexachloro-1,3-butadiene	47.4	
110-54-3	n-Hexane	43.9	
591-78-6	2-Hexanone	224	
74-88-4	Iodomethane	89.3	
98-82-8	Isopropylbenzene (Cumene)	49.1	
99-87-6	p-Isopropyltoluene	49.2	
75-09-2	Methylene Chloride	47.4	
90-12-0	1-Methylnaphthalene	46.7	
91-57-6	2-Methylnaphthalene	38.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	217	
1634-04-4	Methyl-tert-butyl ether	41.6	
91-20-3	Naphthalene	44.4	
103-65-1	n-Propylbenzene	53.8	
100-42-5	Styrene	46.9	
630-20-6	1,1,1,2-Tetrachloroethane	45.4	
79-34-5	1,1,2,2-Tetrachloroethane	49.1	
127-18-4	Tetrachloroethene	40.1	
108-88-3	Toluene	46.7	
87-61-6	1,2,3-Trichlorobenzene	47.5	
120-82-1	1,2,4-Trichlorobenzene	46.5	
71-55-6	1,1,1-Trichloroethane	42.2	
79-00-5	1,1,2-Trichloroethane	45.0	
79-01-6	Trichloroethene	45.3	
75-69-4	Trichlorofluoromethane	55.5	
96-18-4	1,2,3-Trichloropropane	49.6	
95-63-6	1,2,4-Trimethylbenzene	47.7	
108-67-8	1,3,5-Trimethylbenzene	47.7	
108-05-4	Vinyl acetate	167	
75-01-4	Vinyl chloride	52.0	
1330-20-7	Xylene (Total)	141	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d
Lab Smp Id: 1713191,140393:5 Client Smp ID: 1713191,140393:5
Inj Date : 24-JAN-2017 23:46
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713191,140393:5
Misc Info : 99148
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.871	(0.215)	132595	56.7749	56.8	
2 Chloromethane	50	0.952	0.952	(0.234)	116764	44.1434	44.1	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	166428	52.0092	52.0	
4 Bromomethane	94	1.138	1.138	(0.280)	77779	52.8446	52.8	
5 Chloroethane	64	1.182	1.183	(0.291)	99098	48.7080	48.7	
6 Trichlorofluoromethane	101	1.294	1.294	(0.318)	220363	55.5237	55.5	
7 Diethyl ether	74	1.419	1.416	(0.349)	81437	42.8250	42.8	
8 1,2-dichlorotrifluoroethane	67	1.436	1.433	(0.353)	159745	44.1803	44.2	
9 Acrolein	56	1.488	1.489	(0.366)	530709	1246.18	1250	
10 1,1,2trichlorotrifluoroethane	101	1.539	1.536	(0.378)	129500	43.3426	43.3	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	107045	43.7720	43.8	
12 Acetone	43	1.555	1.553	(0.382)	204354	220.861	221	
13 Iodomethane	142	1.628	1.625	(0.400)	308112	89.3362	89.3	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	320711	42.3300	42.3	
15 Methyl Acetate	43	1.717	1.717	(0.422)	209955	62.6955	62.7	
16 Acetonitrile	39	1.731	1.731	(0.425)	252797	38.9474	38.9	
17 allyl chloride	41	1.733	1.731	(0.426)	372746	81.7527	81.8	
18 Methylene Chloride	84	1.806	1.806	(0.444)	114601	47.3626	47.4	
19 tert-Butyl Alcohol	59	1.850	1.853	(0.455)	30384	92.8183	92.8	
20 Acrylonitrile	53	1.942	1.939	(0.477)	207116	177.361	177	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	366289	41.6264	41.6	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	116784	44.7866	44.8	
23 n-Hexane	57	2.148	2.148	(0.528)	163776	43.9023	43.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.262	2.262	(0.556)	974919	167.312	167	
25 1,1-Dichloroethane	63	2.270	2.268	(0.558)	208453	43.7365	43.7	
26 Chloroprene	53	2.320	2.323	(0.571)	193186	45.7806	45.8	
27 Ethyl acetate	88	2.732	2.763	(0.672)	1501	9.13876	9.14(Q)	
28 2-Butanone	72	2.721	2.724	(0.669)	85767	213.009	213(Q)	
29 1,2-Dichloroethene (cis)	96	2.735	2.730	(0.672)	130921	45.5427	45.5	
30 2,2-Dichloropropane	77	2.738	2.738	(0.673)	182744	44.8724	44.9	
31 Propionitrile	54	2.782	2.782	(0.684)	20407	42.9948	43.0(Q)	
32 Methacrylonitrile	41	2.924	2.924	(0.719)	344035	184.735	185	
33 Bromochloromethane	49	2.963	2.960	(0.728)	100436	45.2705	45.3	
34 Tetrahydrofuran	42	2.980	2.977	(0.733)	41371	47.1282	47.1	
35 Chloroform	83	3.069	3.063	(0.754)	209724	46.5136	46.5	
$ 36 Dibromofluoromethane (S)	113	3.236	3.239	(0.795)	99645	48.8771	48.9	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.795)	188763	42.2053	42.2	
38 cyclohexane	56	3.314	3.311	(0.815)	205779	44.4624	44.5	
150 n-butyl chloride	56	3.378	3.378	(0.830)	260480	45.2910	45.3	
39 Carbon Tetrachloride	117	3.411	3.408	(0.839)	172287	44.1375	44.1	
40 1,1-Dichloropropene	75	3.419	3.417	(0.841)	180938	47.3662	47.4	
41 Benzene	78	3.656	3.653	(0.899)	484104	44.7397	44.7	
42 1,2-Dichloroethane	62	3.745	3.742	(0.921)	165608	44.6038	44.6	
43 2,2,4-Trimethylpentane	57	3.826	3.828	(0.940)	337323	48.4700	48.5	
44 Isobutyl alcohol	43	3.600	3.600	(0.885)	27436	1.09835	1.10	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	404205	50.0000		
47 Trichloroethene	95	4.527	4.527	(1.113)	120817	45.2528	45.2	
48 Methylcyclohexane	55	4.794	4.791	(1.179)	148388	47.3087	47.3	
49 1,2-Dichloropropane	63	4.847	4.838	(1.191)	118277	43.5212	43.5	
50 1,4-Dioxane	88	4.950	4.953	(1.217)	33744	1051.50	1050	
51 Dibromomethane	93	4.938	4.939	(1.214)	75838	44.7733	44.8	
52 Methyl methacrylate	69	4.961	4.964	(1.220)	100597	43.9152	43.9	
53 Bromodichloromethane	83	5.169	5.170	(1.271)	150023	43.4488	43.4	
54 2-Chloroethyl vinyl ether	63	5.528	5.528	(0.751)	83128	41.0248	41.0	
55 cis-1,3-Dichloropropene	75	5.676	5.673	(0.771)	195420	44.7732	44.8	
56 4-Methyl-2-Pentanone	43	5.854	5.851	(0.795)	644147	216.501	216	
$ 57 Toluene-d8	98	5.948	5.946	(0.808)	392143	49.9327	49.9	
58 Toluene	91	6.021	6.021	(0.818)	516928	46.7242	46.7	
59 trans-1,3-Dichloropropene	75	6.316	6.316	(0.858)	175950	44.4971	44.5	
60 Ethyl Methacrylate	69	6.405	6.405	(0.870)	716588	179.758	180	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	91421	45.0176	45.0	
62 Tetrachloroethene	166	6.561	6.561	(0.891)	137703	40.0547	40.0	
63 1,3-Dichloropropane	76	6.663	6.661	(0.905)	200118	47.5918	47.6	
64 2-Hexanone	43	6.741	6.739	(0.915)	434348	224.017	224	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	121312	42.7327	42.7	
66 1,2-Dibromoethane	107	6.956	6.953	(0.944)	117376	46.1473	46.1	
* 67 Chlorobenzene-d5	117	7.365	7.365	(1.000)	302503	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	314586	44.7743	44.8	
69 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	121328	45.3659	45.4	
70 Ethylbenzene	106	7.484	7.484	(1.016)	178636	46.7191	46.7	
71 m&p-Xylene	106	7.598	7.596	(1.032)	430576	93.2146	93.2	
72 o-Xylene	106	7.896	7.896	(1.072)	203570	47.8683	47.9	
73 Styrene	104	7.918	7.916	(1.075)	344164	46.9271	46.9	
74 Bromoform	173	8.052	8.052	(0.883)	85170	38.9138	38.9	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	529621	49.1469	49.1	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.129)	141167	52.4809	52.5	
77 n-amyl acetate	70	8.071	8.071	(1.096)	475697	232.459	232	

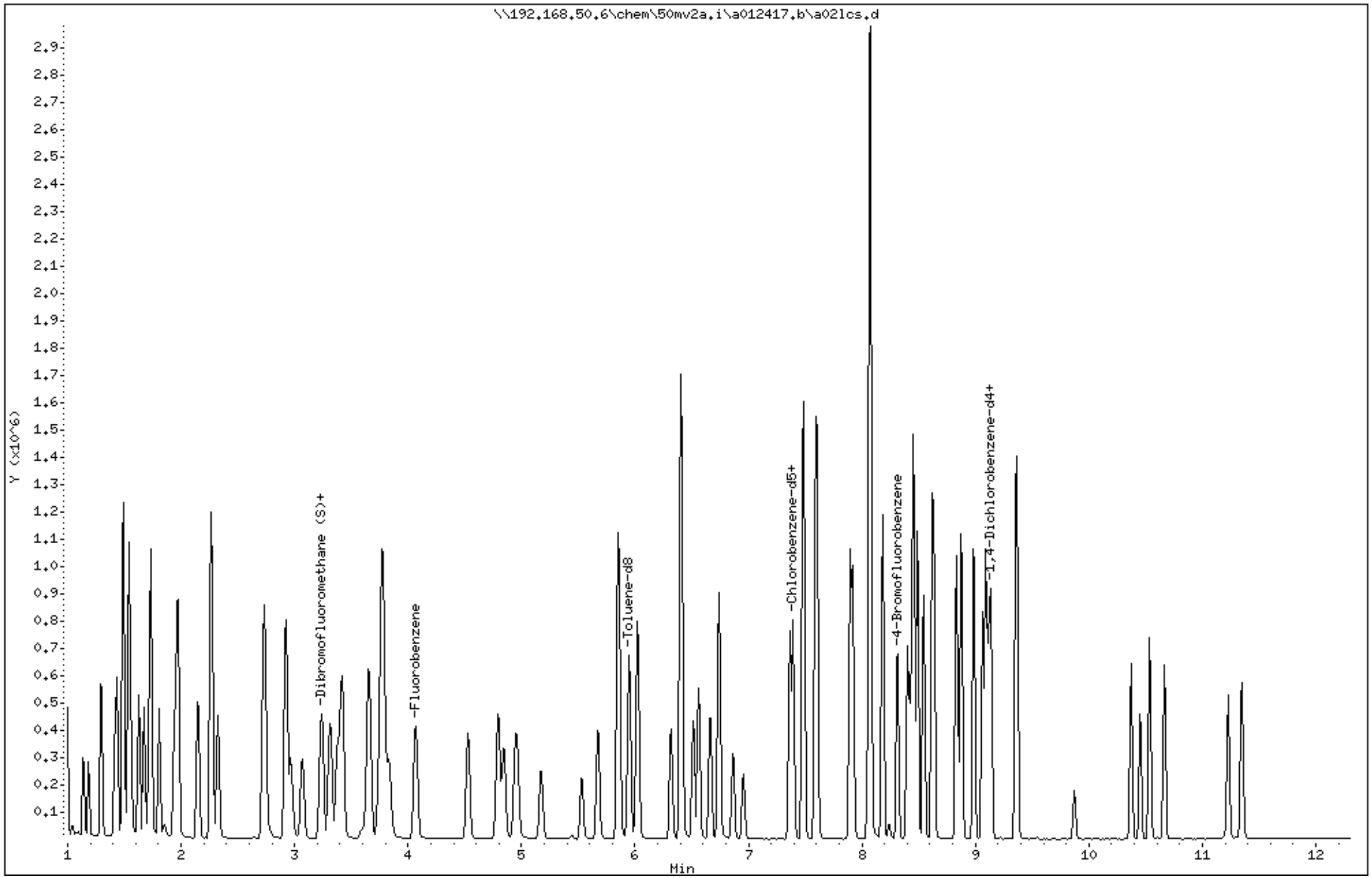
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.402	8.403	(1.141)	188601	44.7142	44.7	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	147982	49.0801	49.1	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	154600	166.632	167(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	52630	49.5573	49.6(Q)	
82 n-Propylbenzene	91	8.486	8.486	(0.930)	583627	53.7801	53.8	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	331327	48.7073	48.7	
84 1,3,5-Trimethylbenzene	105	8.619	8.620	(0.945)	383236	47.7339	47.7	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	123693	48.6908	48.7	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	348070	40.9573	41.0	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	396057	47.6830	47.7	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	478791	48.8862	48.9	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	236599	46.2139	46.2	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	399380	49.1622	49.2	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	149964	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	242569	43.7206	43.7	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	327699	48.4073	48.4	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	231500	46.5702	46.6	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.872	(1.082)	26267	41.2182	41.2	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.137)	145383	46.5192	46.5	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	61327	47.3743	47.4	
98 Naphthalene	128	10.534	10.534	(1.155)	408547	44.3761	44.4	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.169)	141872	47.4505	47.4	
100 2,methyl-naphthalene	142	11.229	11.226	(1.231)	198494	38.2044	38.2	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	215246	46.7438	46.7	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d
Date : 24-JAN-2017 23:46
Client ID: 1713191,140393:5
Sample Info: 1713191,140393:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

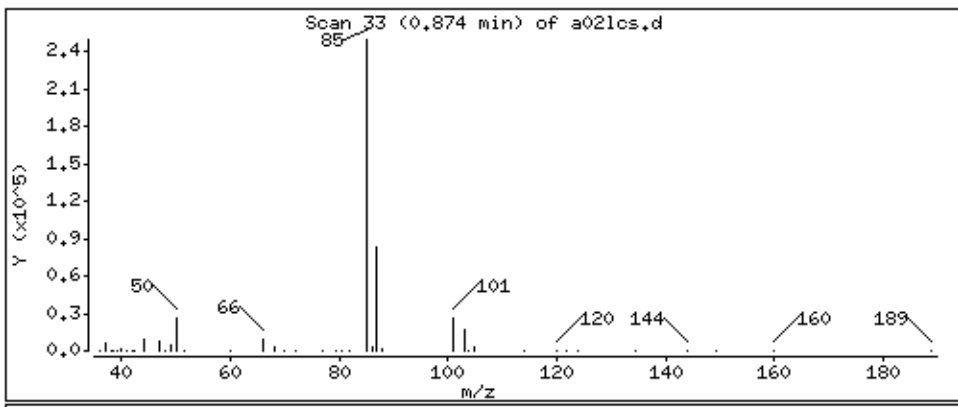
Operator: dae

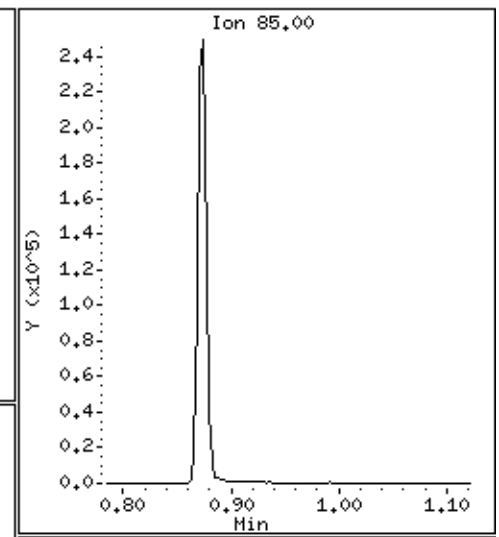
Column phase: DB-624

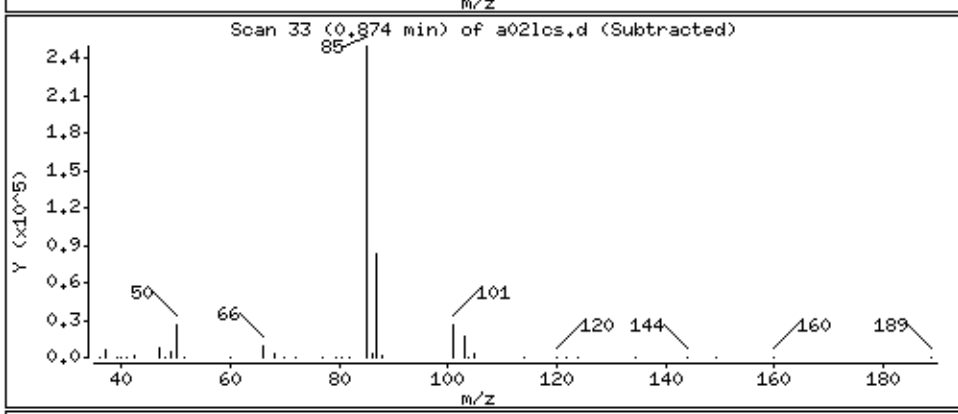
Column diameter: 0.18

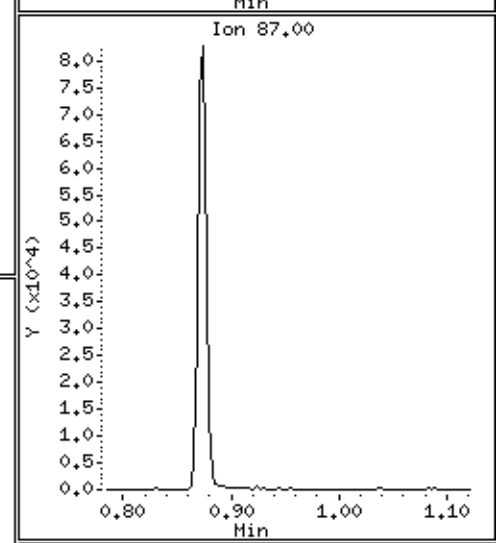
1 Dichlorodifluoromethane

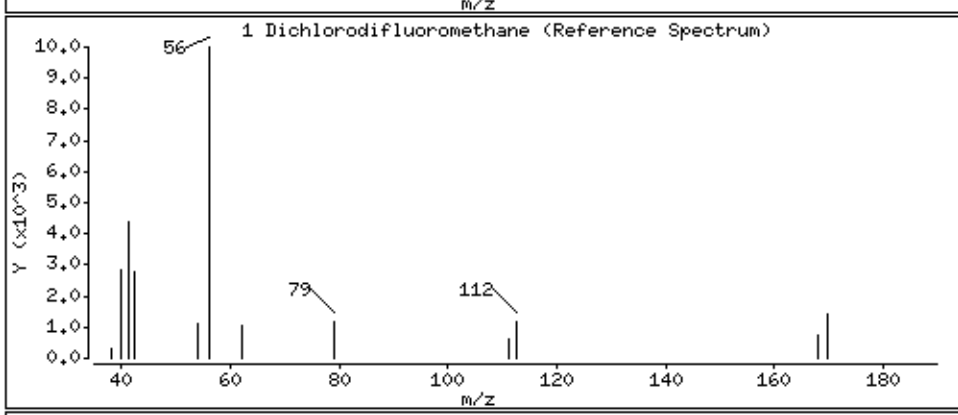
Concentration: 56.8 ppb

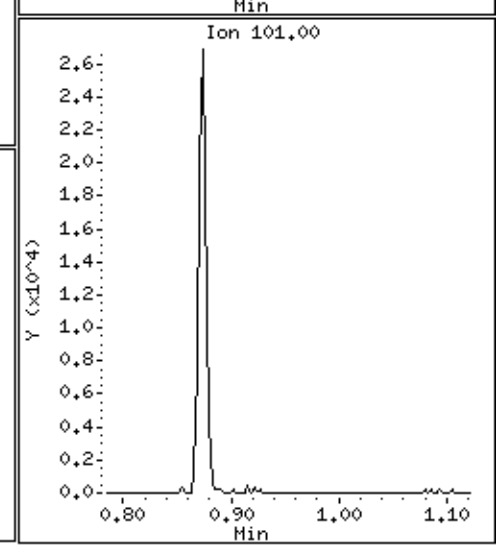


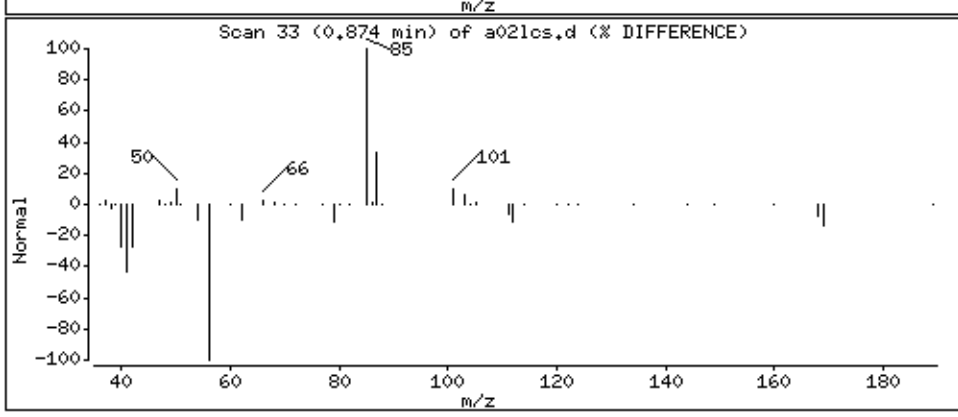












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

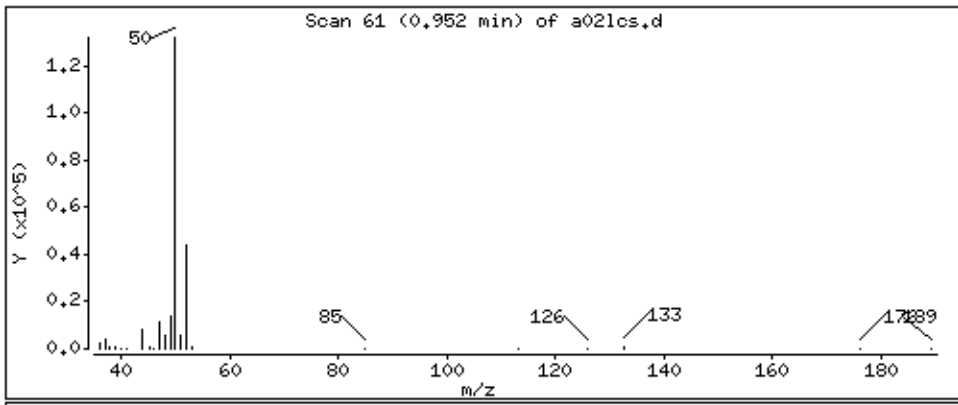
Operator: dae

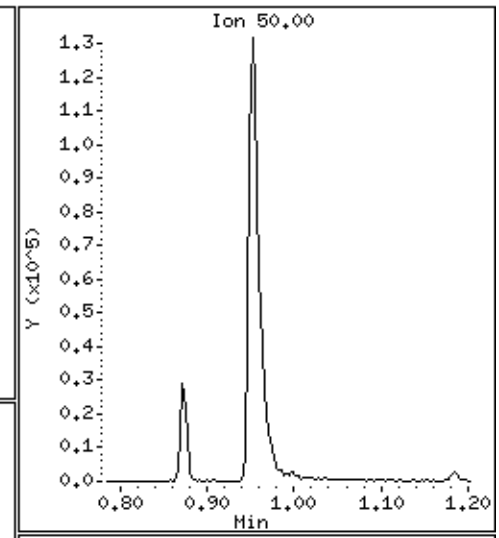
Column phase: DB-624

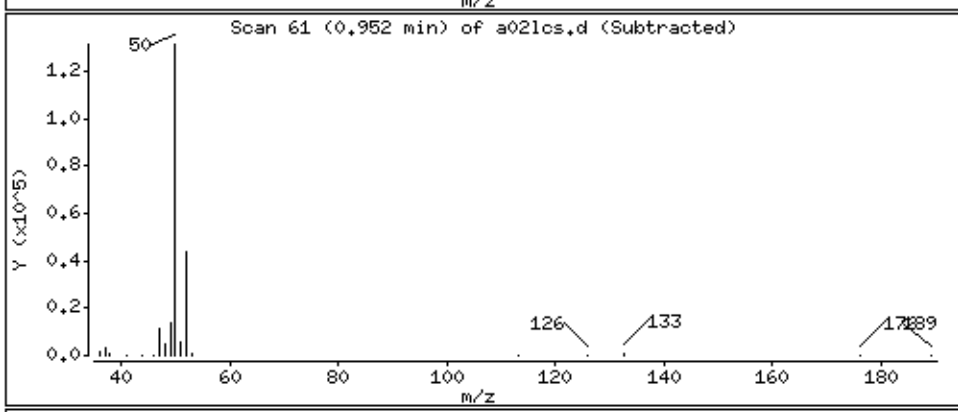
Column diameter: 0.18

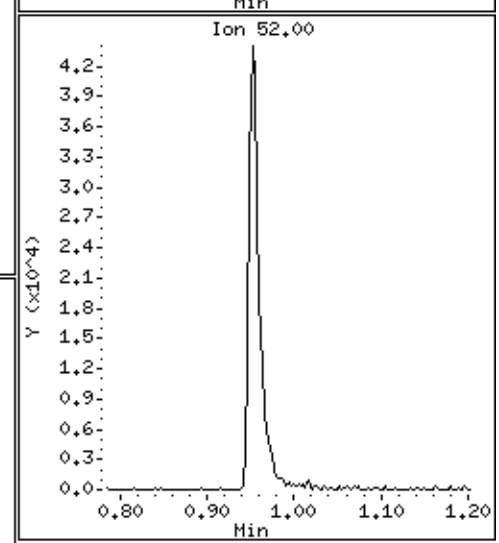
2 Chloromethane

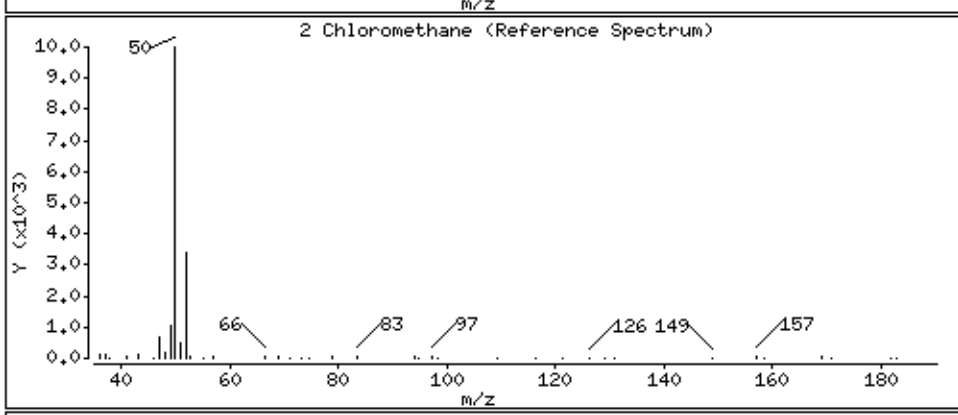
Concentration: 44.1 ppb

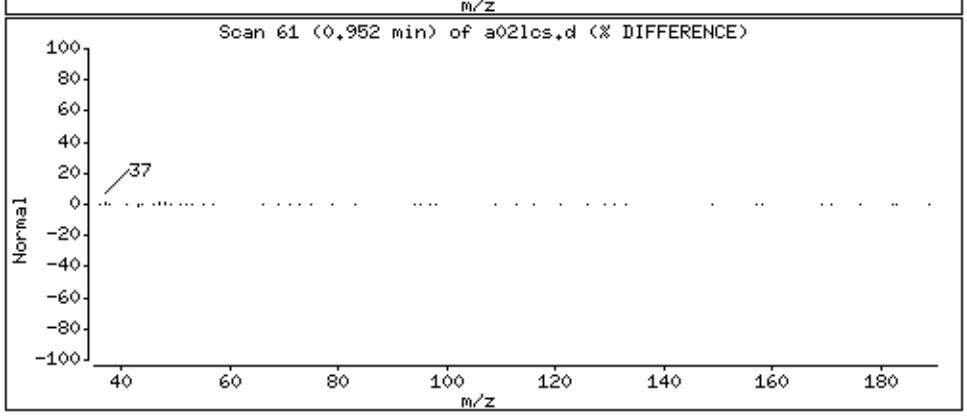












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

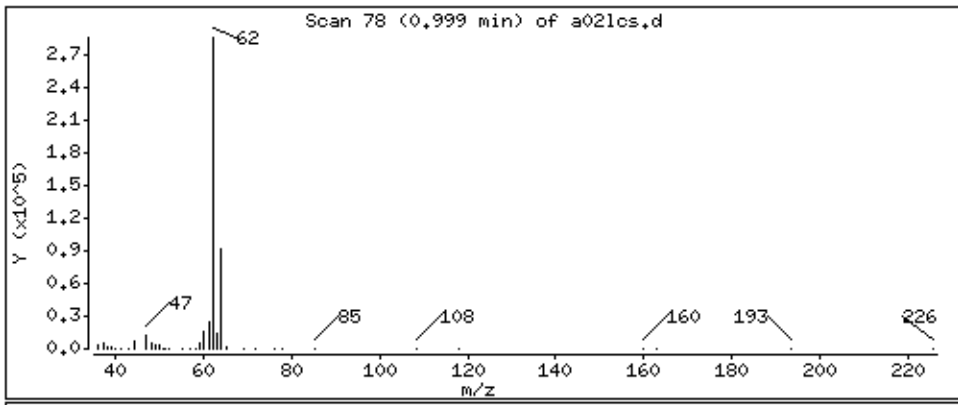
Operator: dae

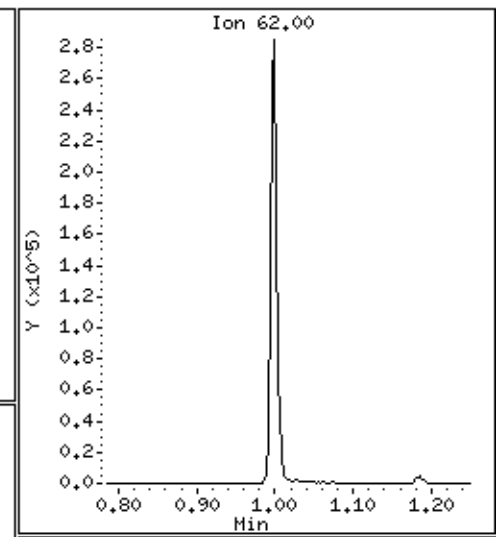
Column phase: DB-624

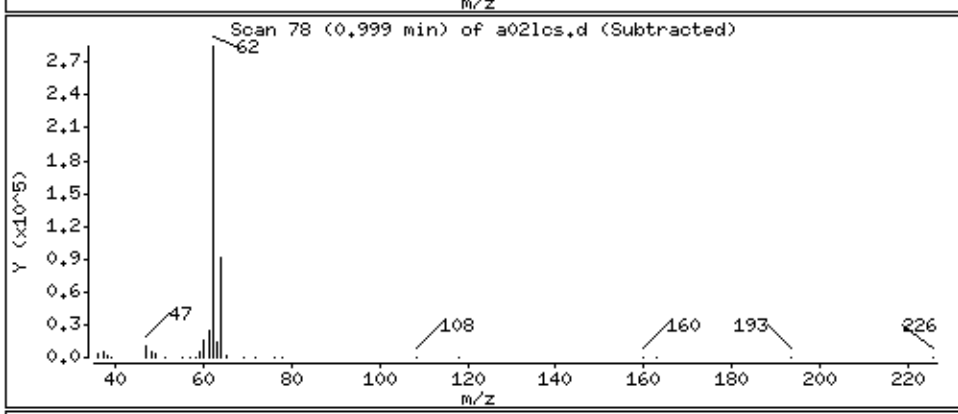
Column diameter: 0.18

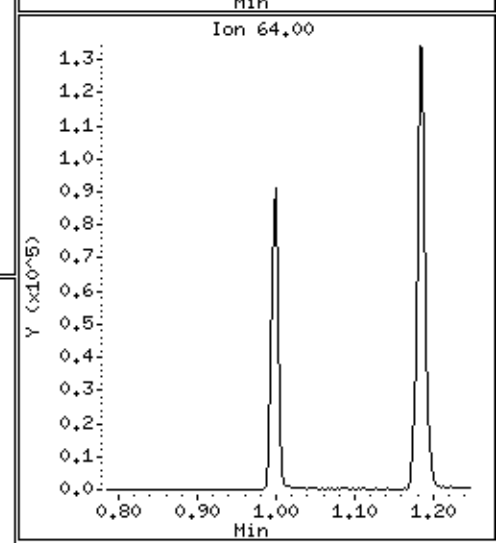
3 Vinyl Chloride

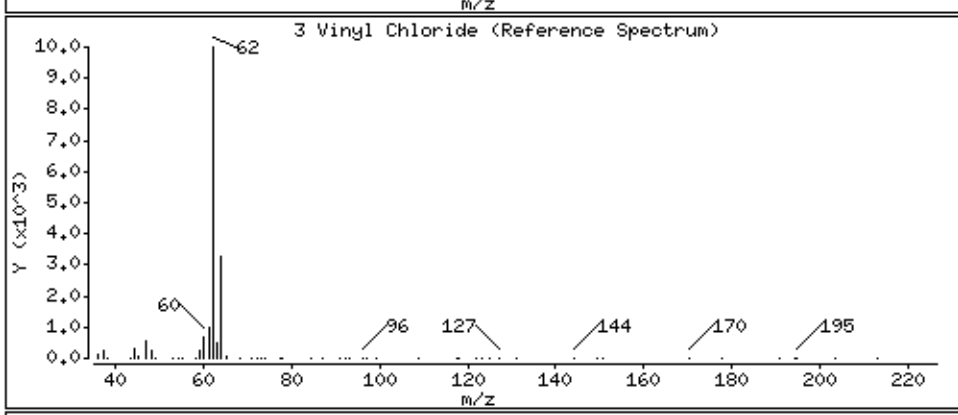
Concentration: 52.0 ppb

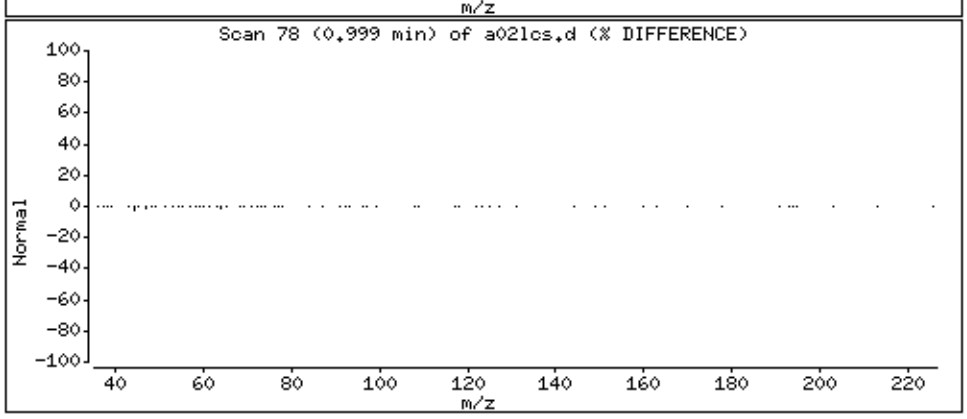












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

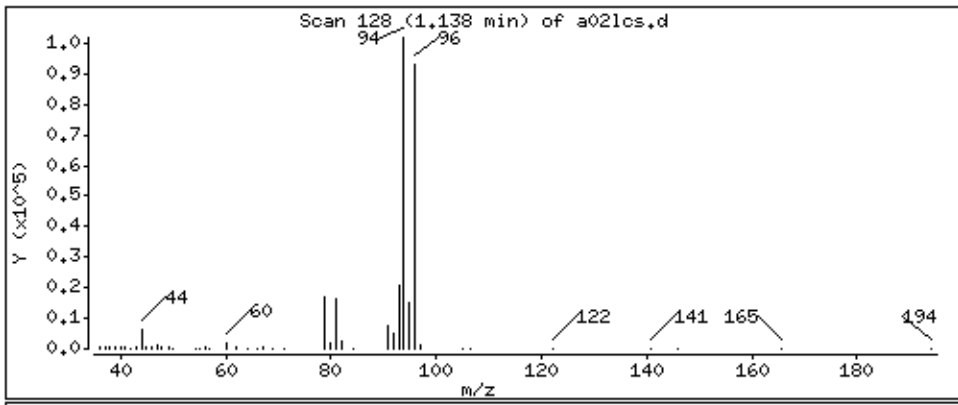
Operator: dae

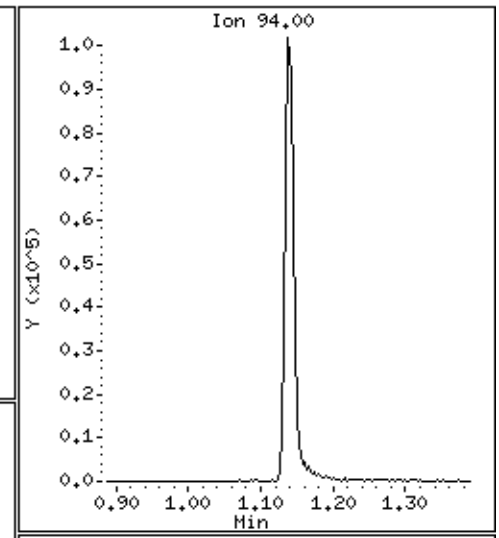
Column phase: DB-624

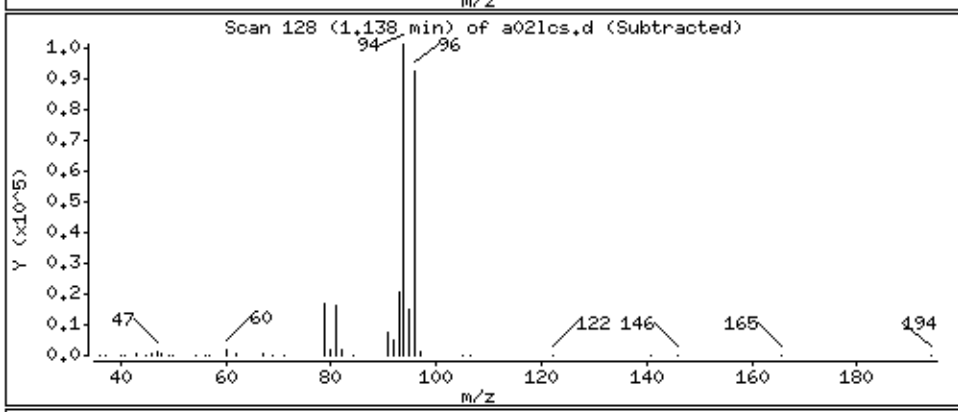
Column diameter: 0.18

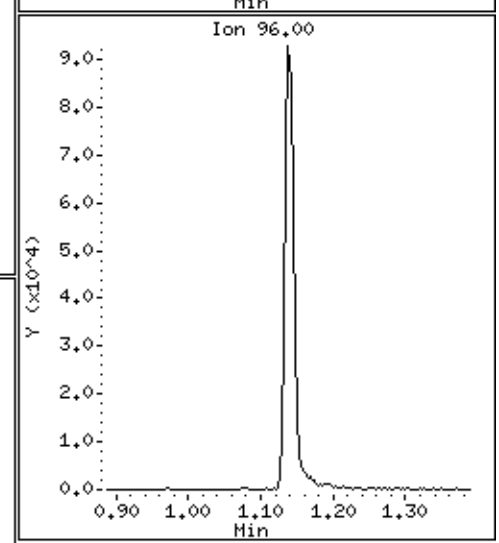
4 Bromomethane

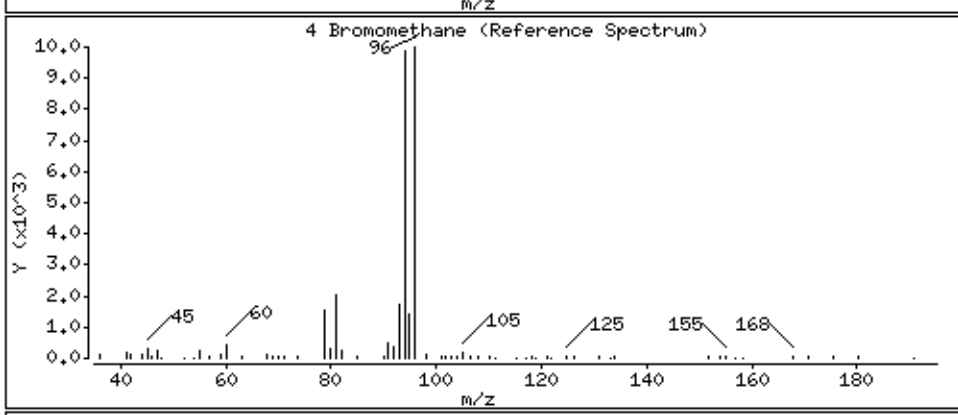
Concentration: 52.8 ppb

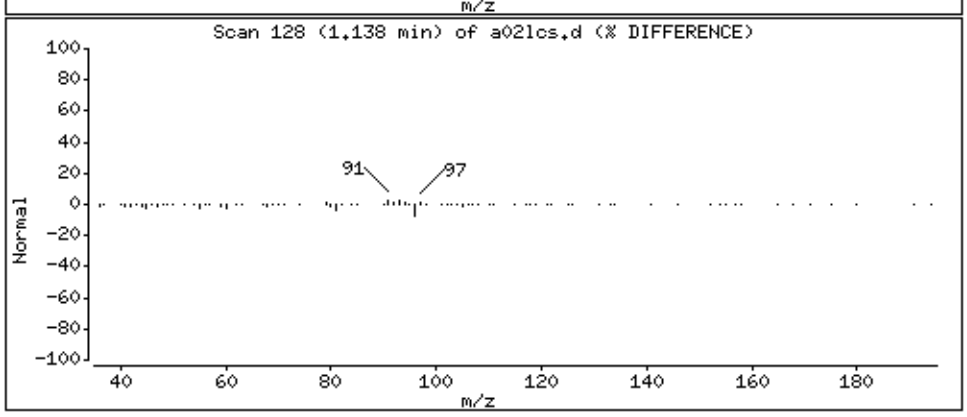












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

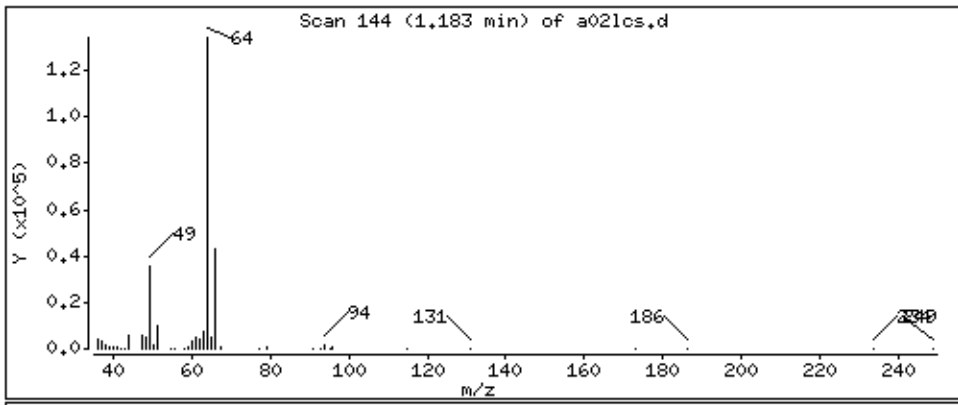
Operator: dae

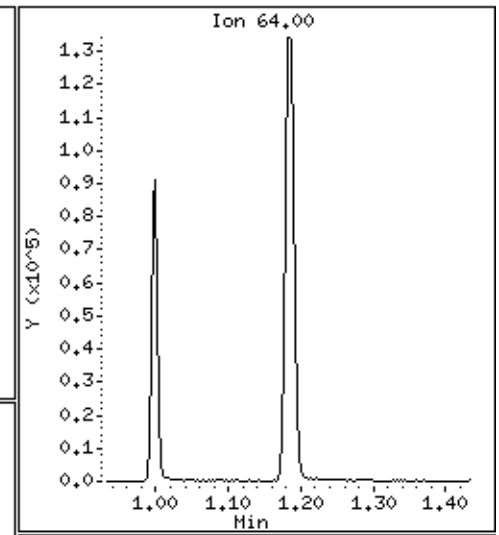
Column phase: DB-624

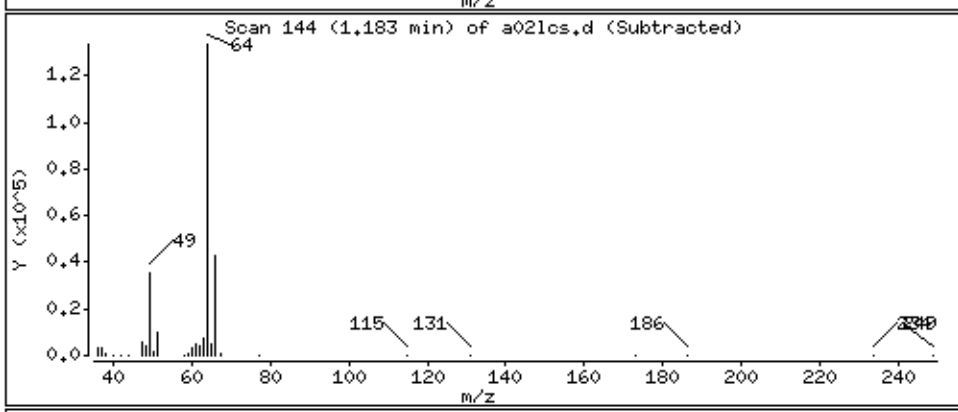
Column diameter: 0.18

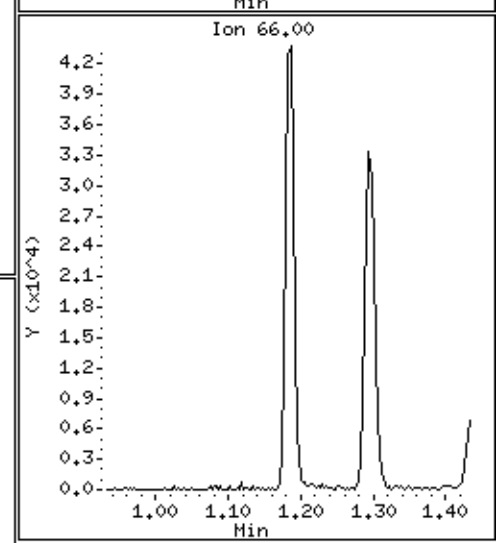
5 Chloroethane

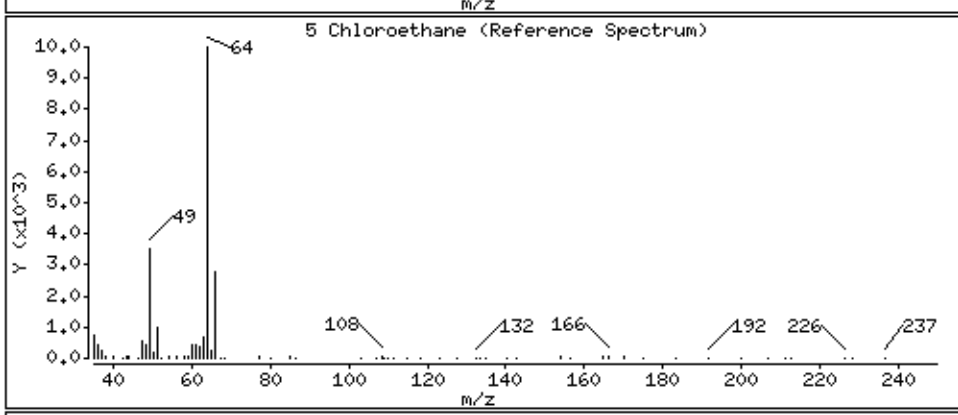
Concentration: 48.7 ppb

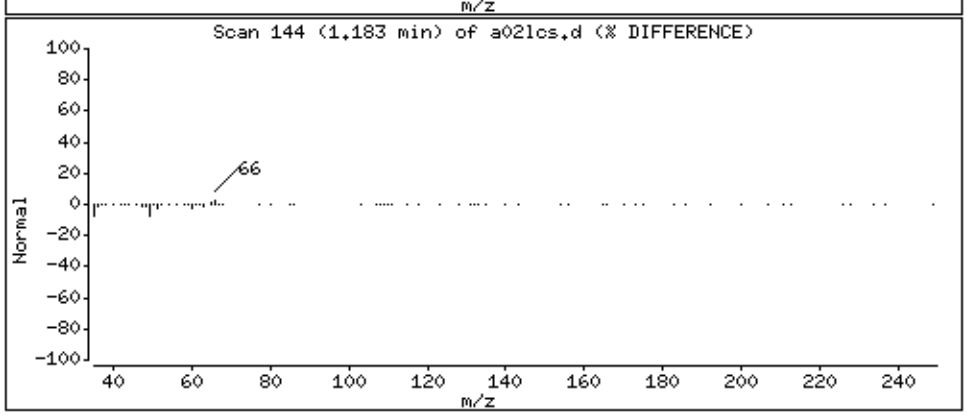












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

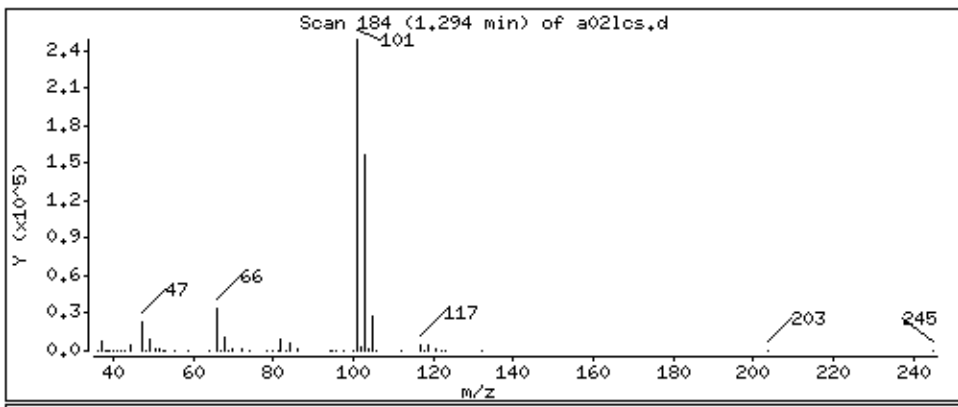
Operator: dae

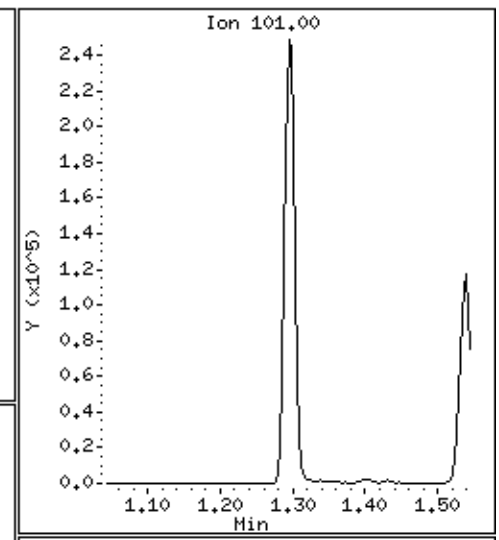
Column phase: DB-624

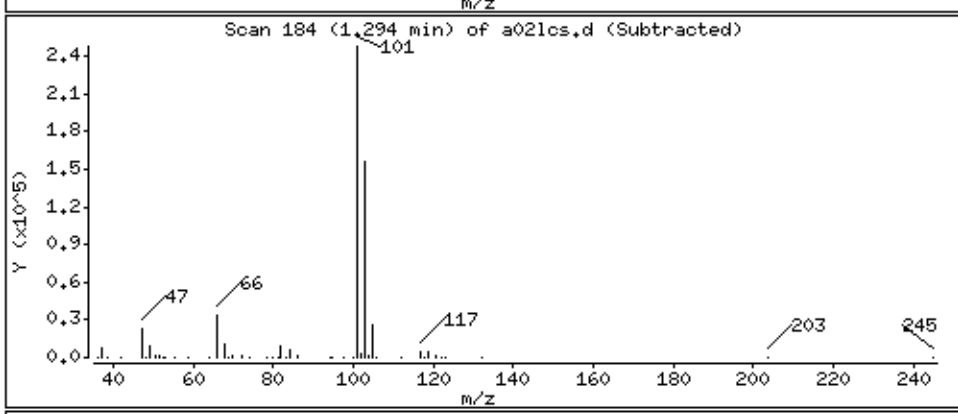
Column diameter: 0.18

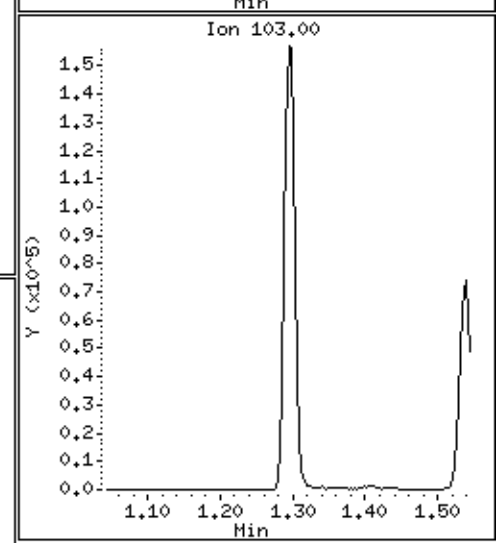
6 Trichlorofluoromethane

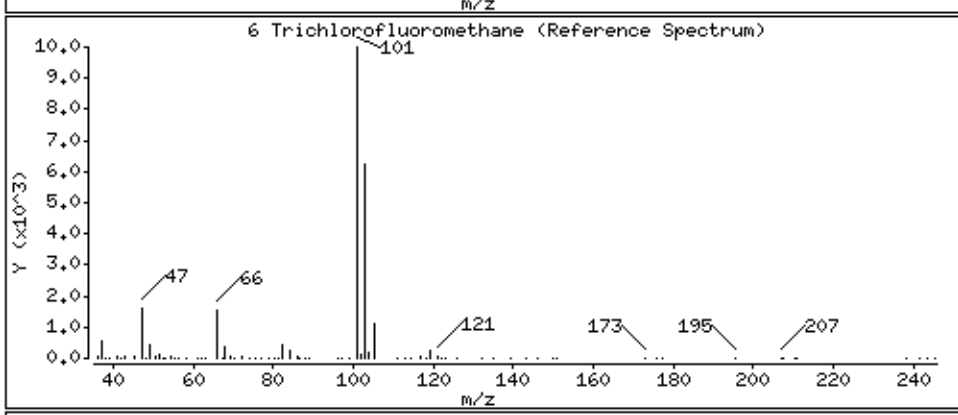
Concentration: 55.5 ppb

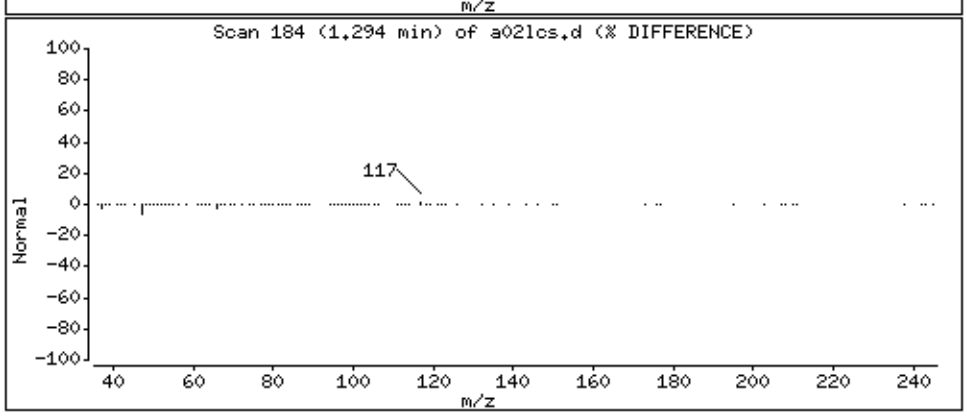












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

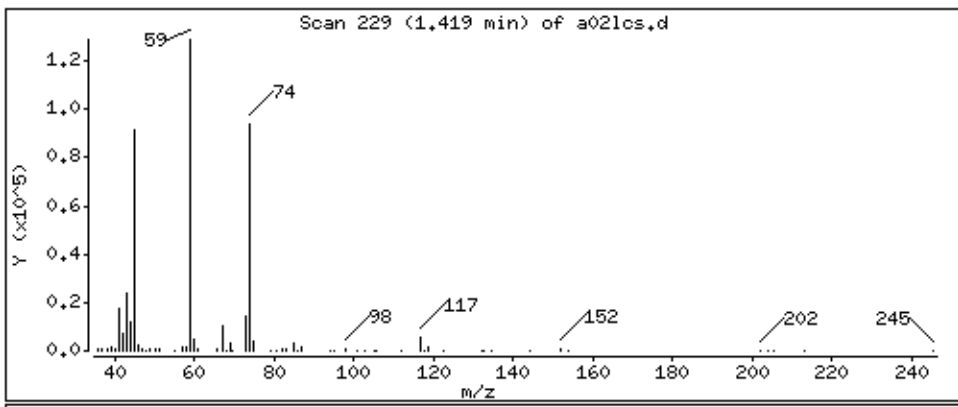
Operator: dae

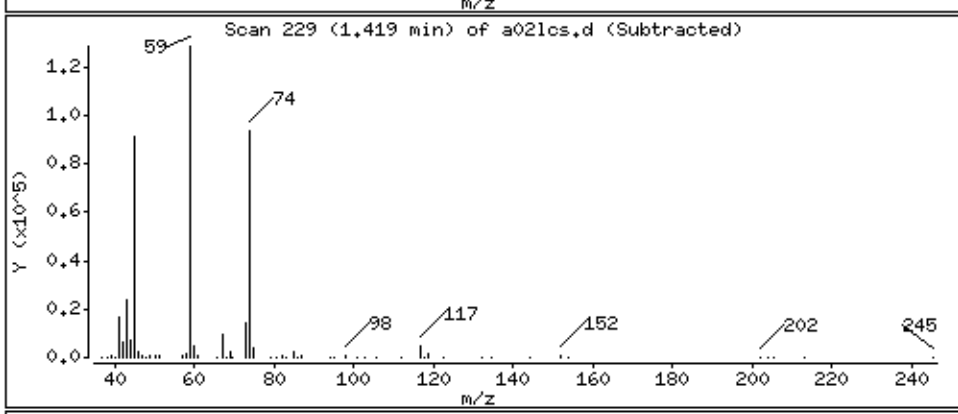
Column phase: DB-624

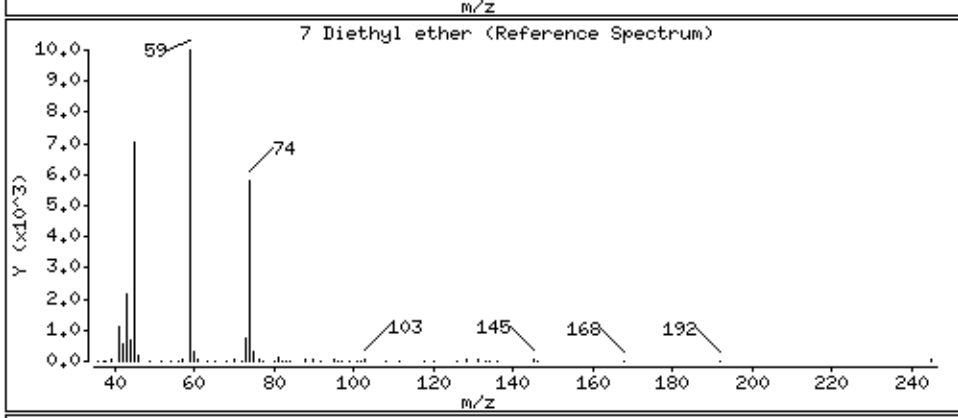
Column diameter: 0.18

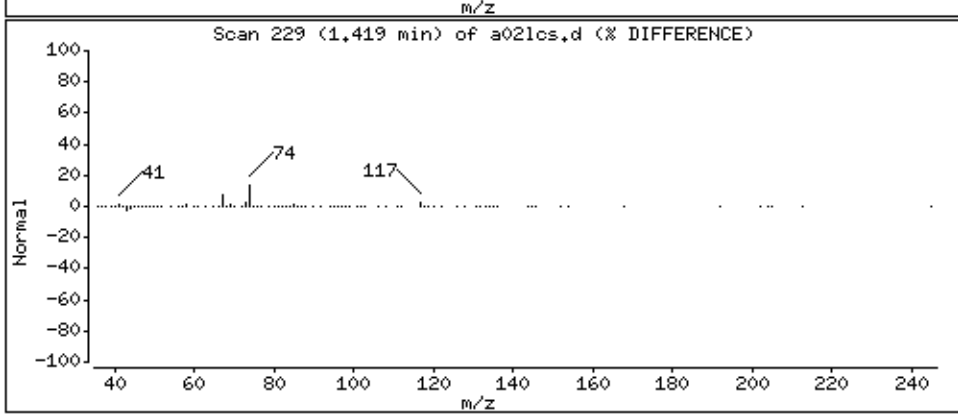
7 Diethyl ether

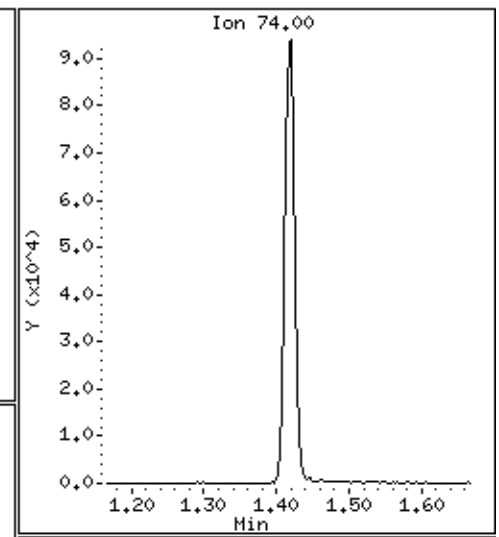
Concentration: 42.8 ppb

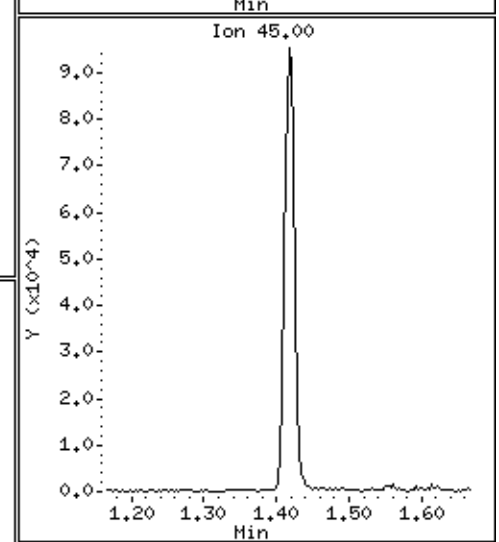


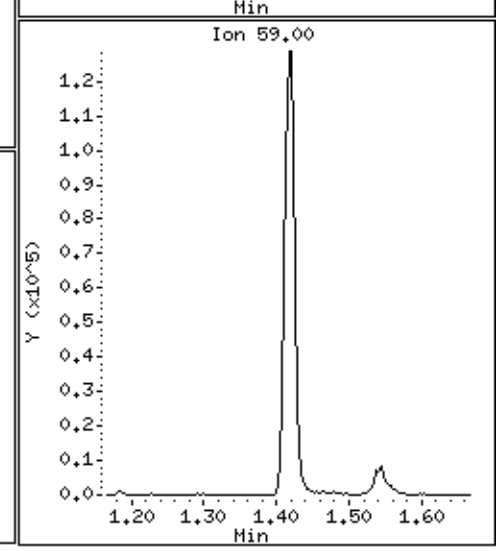












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

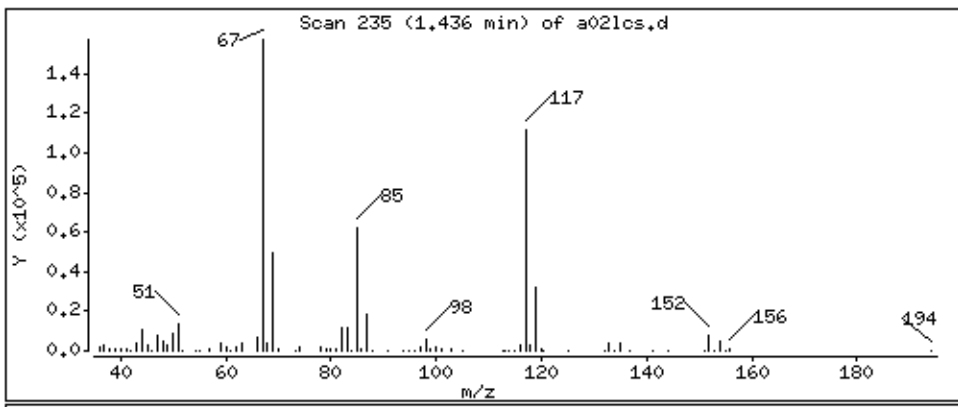
Operator: dae

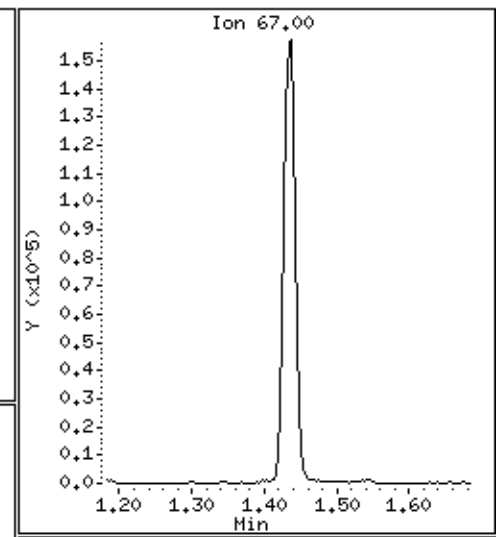
Column phase: DB-624

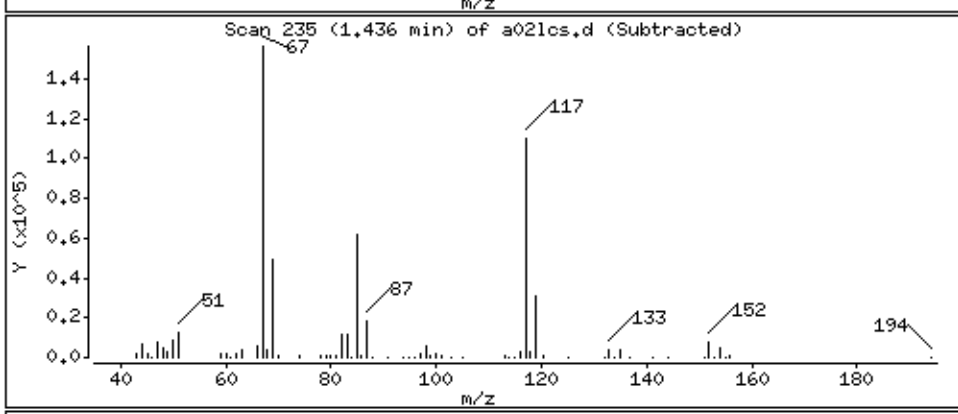
Column diameter: 0.18

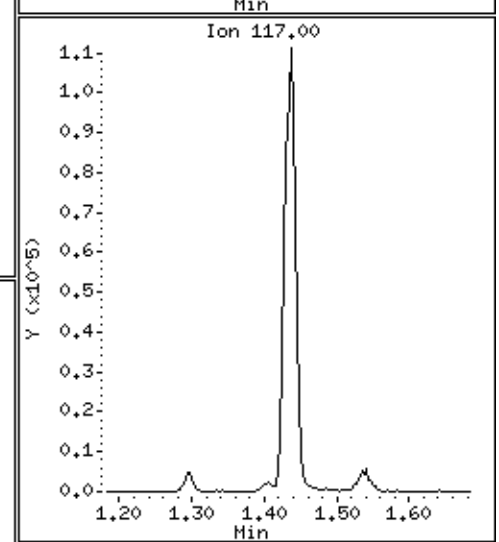
8 1,2-dichlorotrifluoroethane

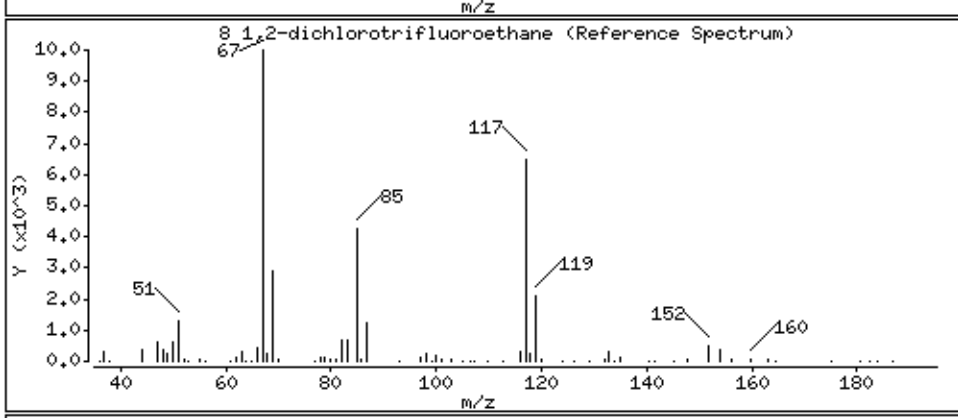
Concentration: 44.2 ppb

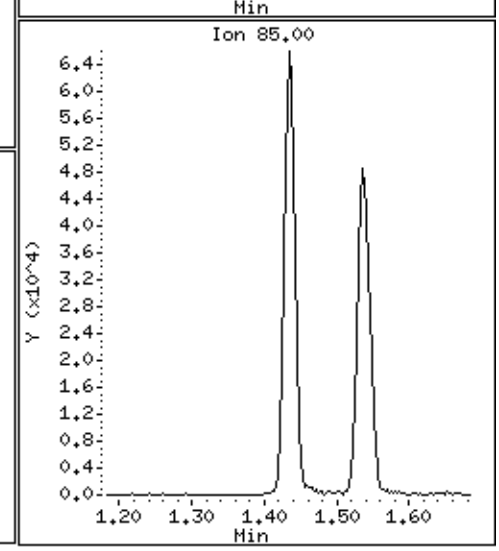


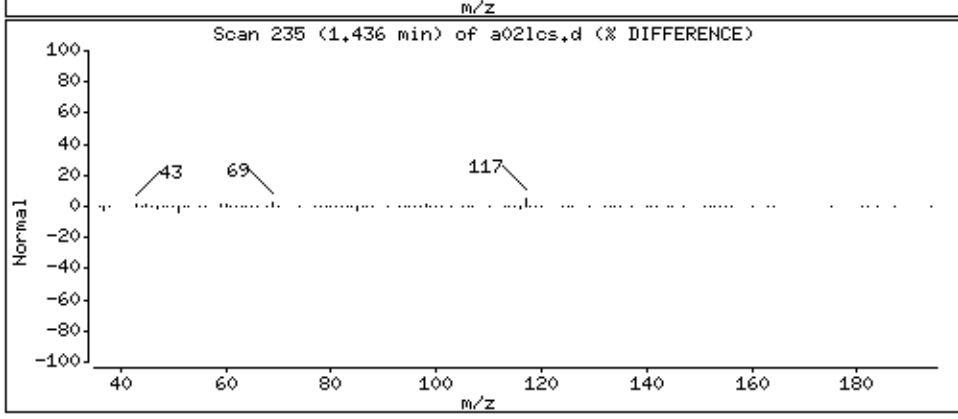












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

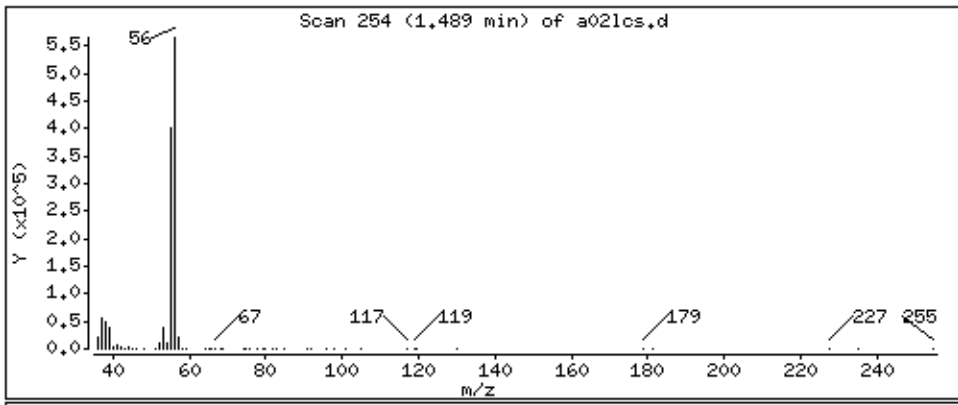
Operator: dae

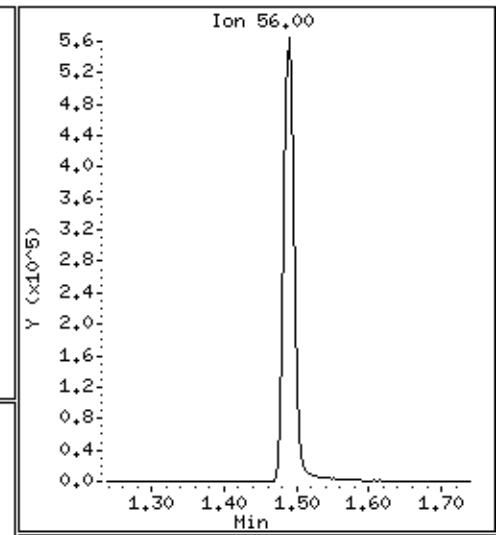
Column phase: DB-624

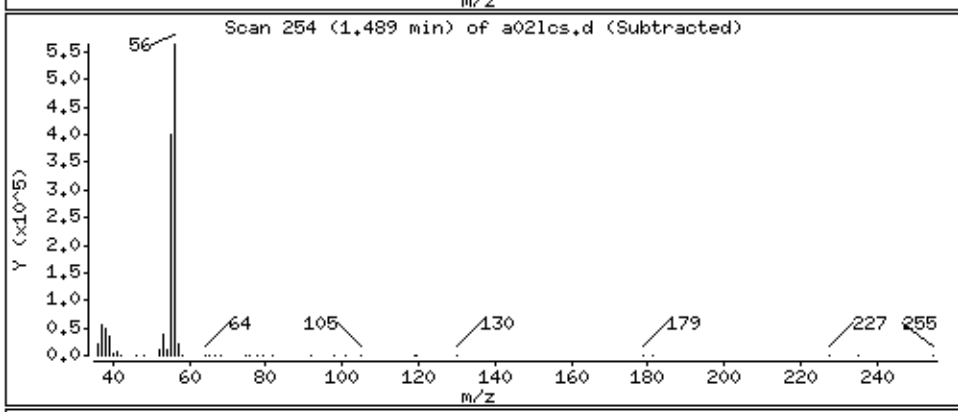
Column diameter: 0.18

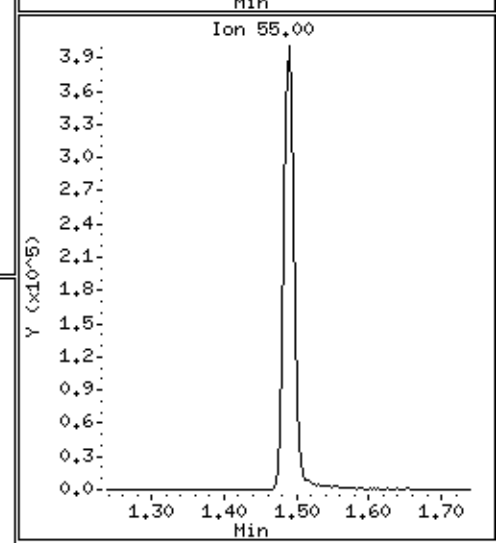
9 Acrolein

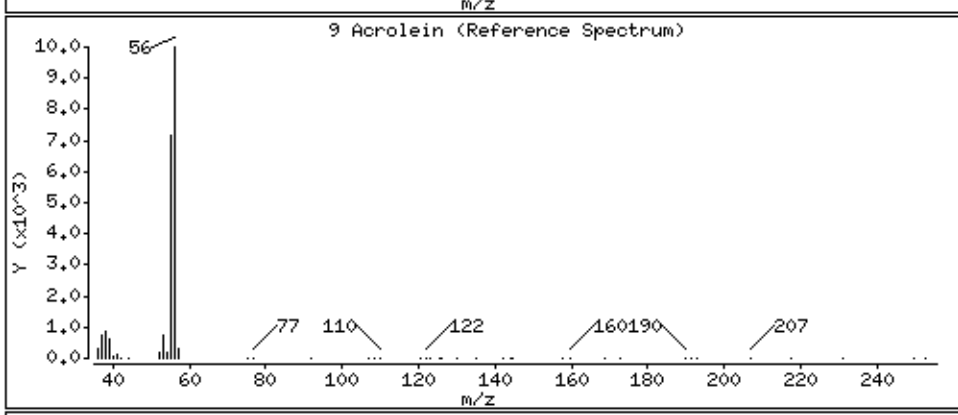
Concentration: 1250 ppb

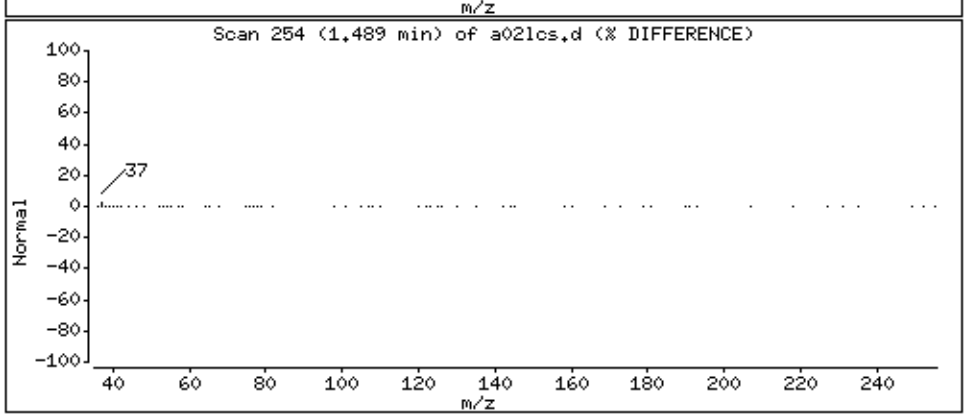












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

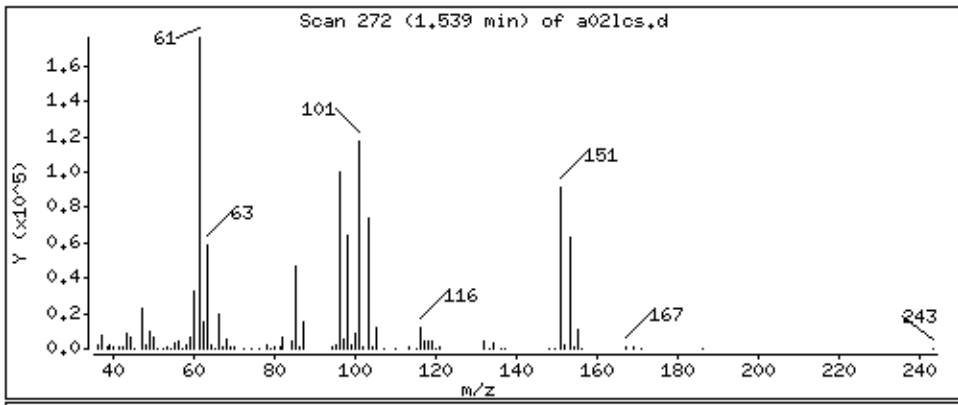
Operator: dae

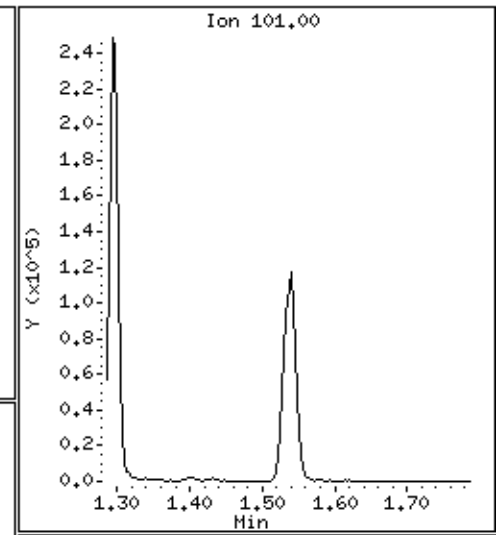
Column phase: DB-624

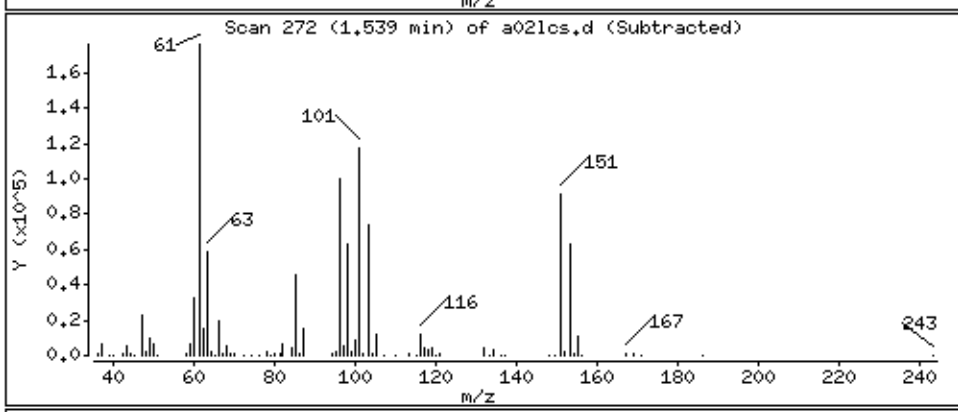
Column diameter: 0.18

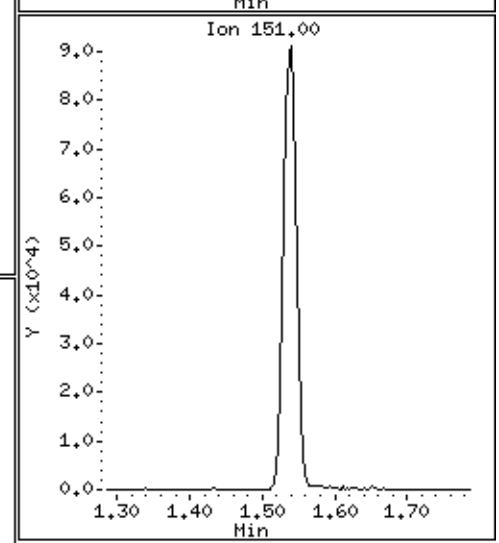
10 1,1,2trichlorotrifluoroethane

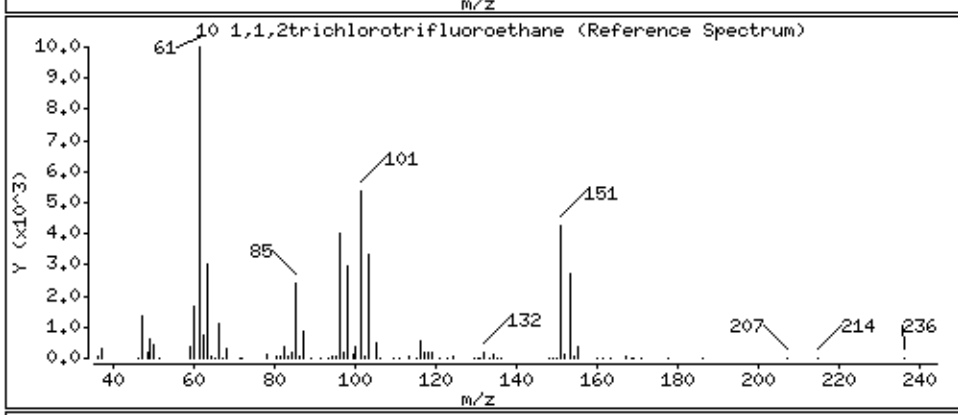
Concentration: 43.3 ppb

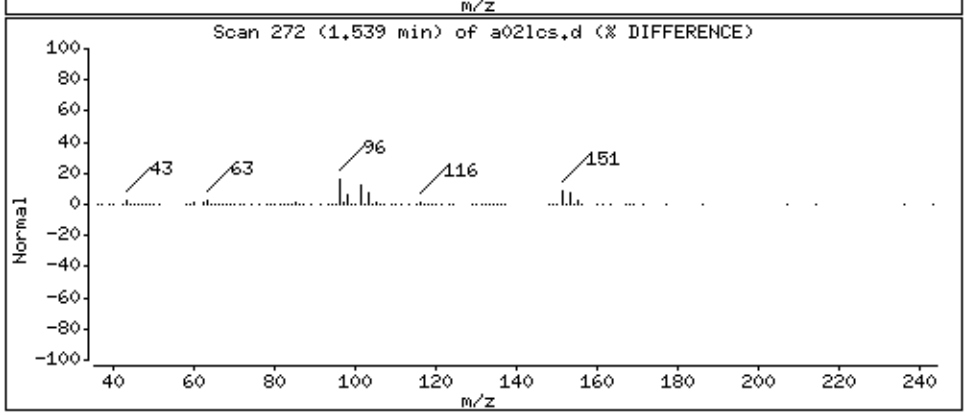












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

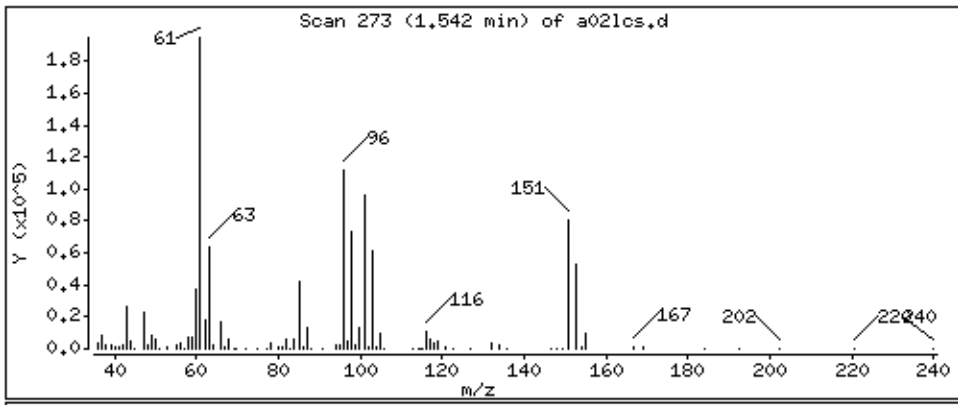
Operator: dae

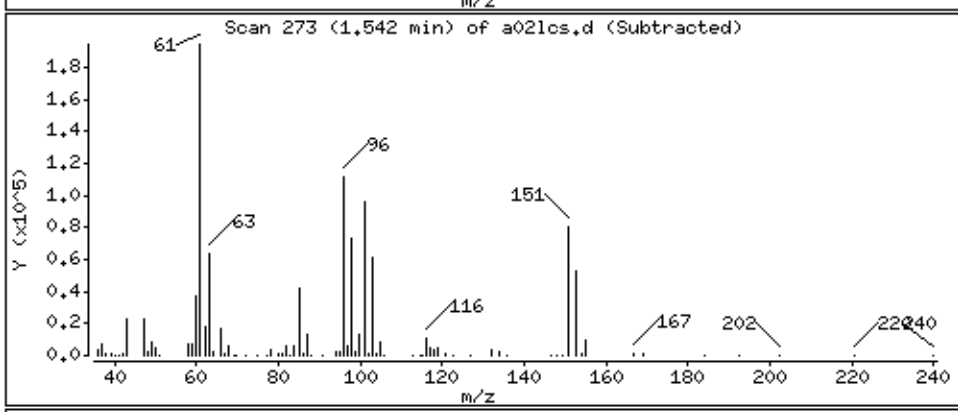
Column phase: DB-624

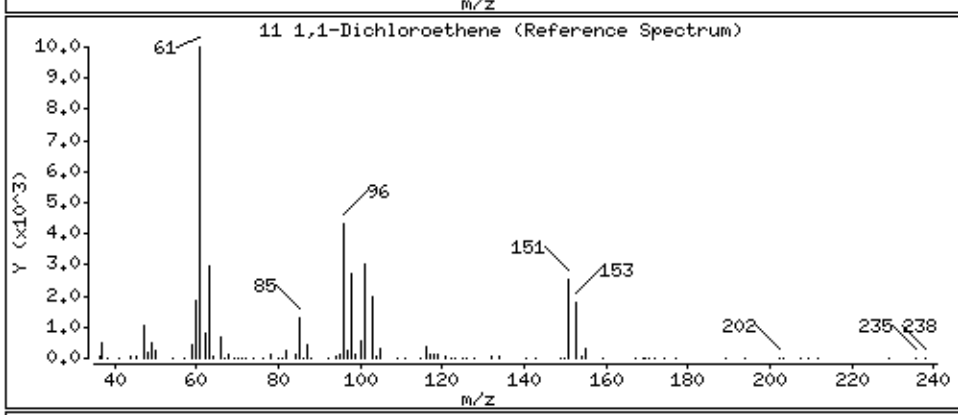
Column diameter: 0.18

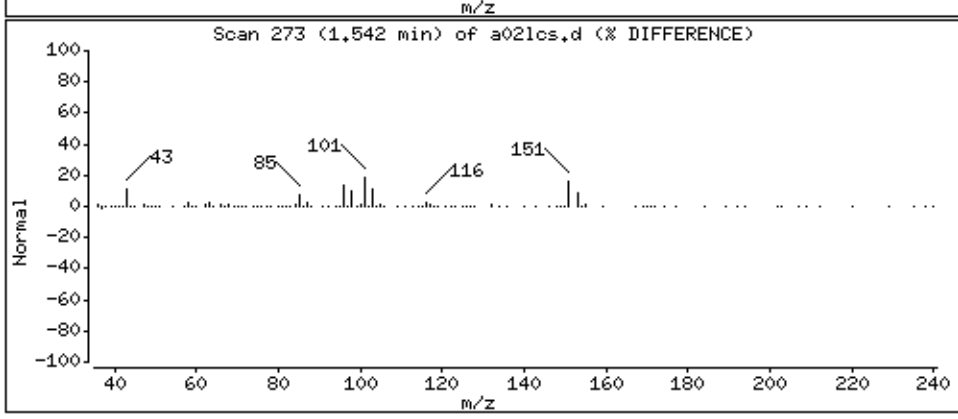
11 1,1-Dichloroethene

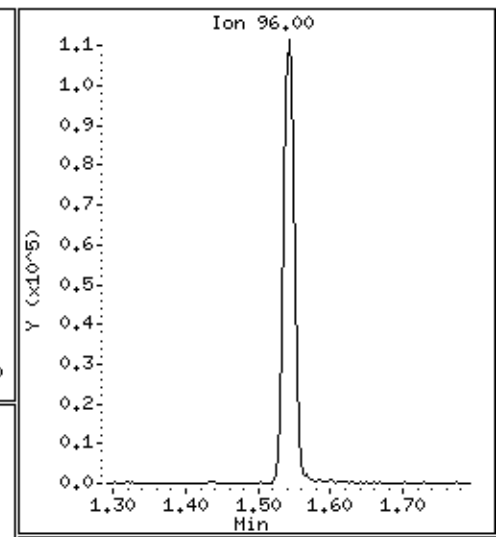
Concentration: 43.8 ppb

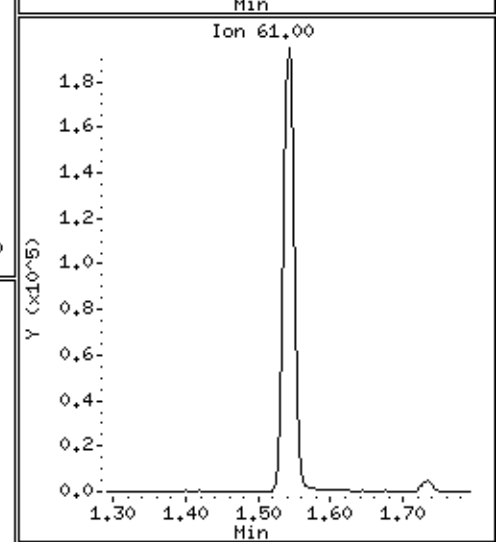


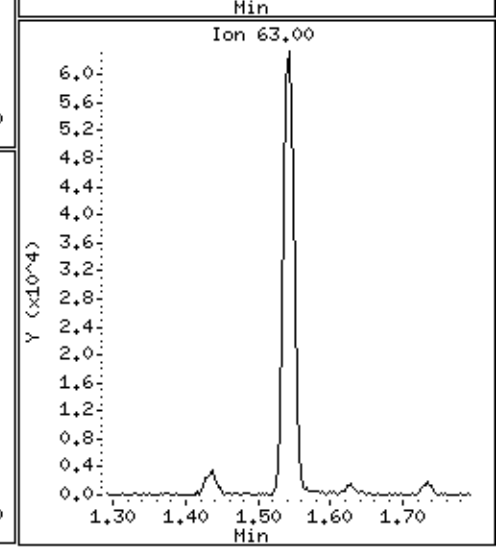












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

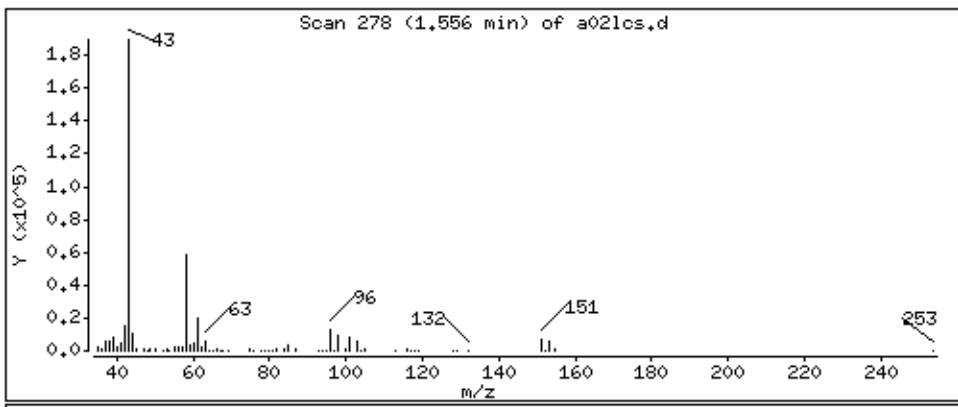
Operator: dae

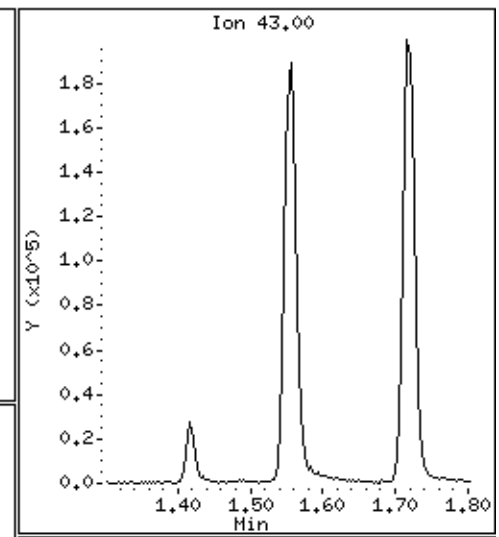
Column phase: DB-624

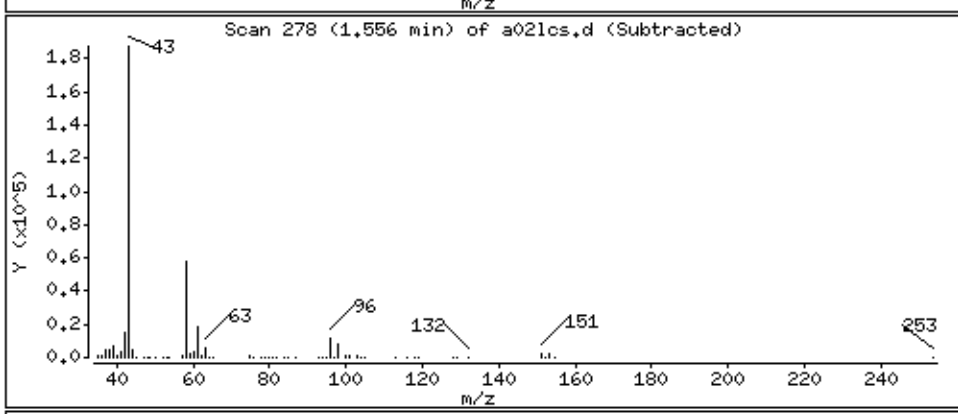
Column diameter: 0.18

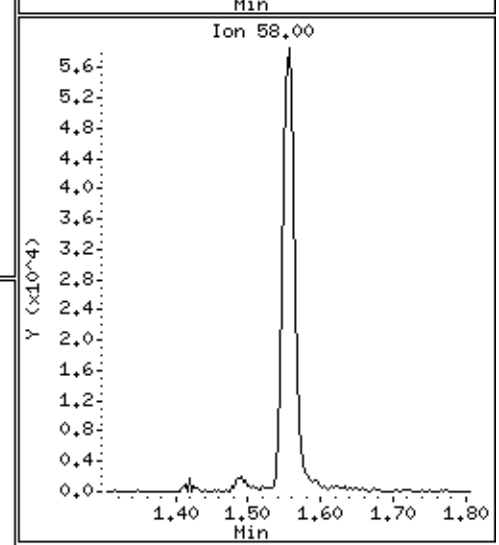
12 Acetone

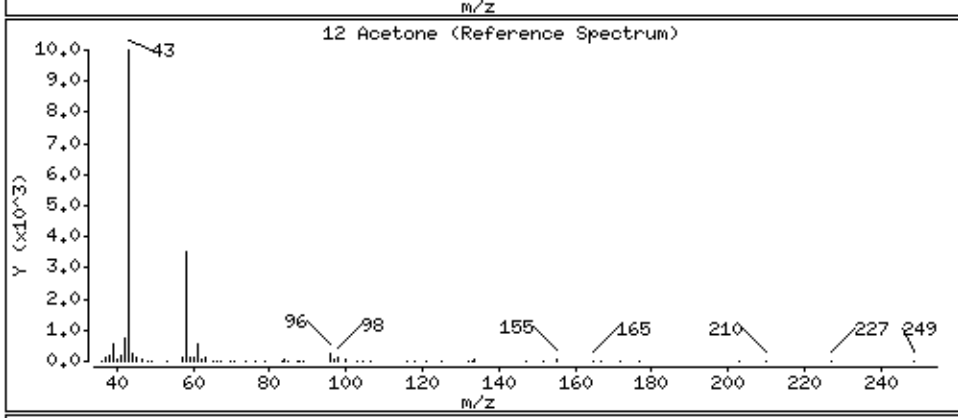
Concentration: 221 ppb

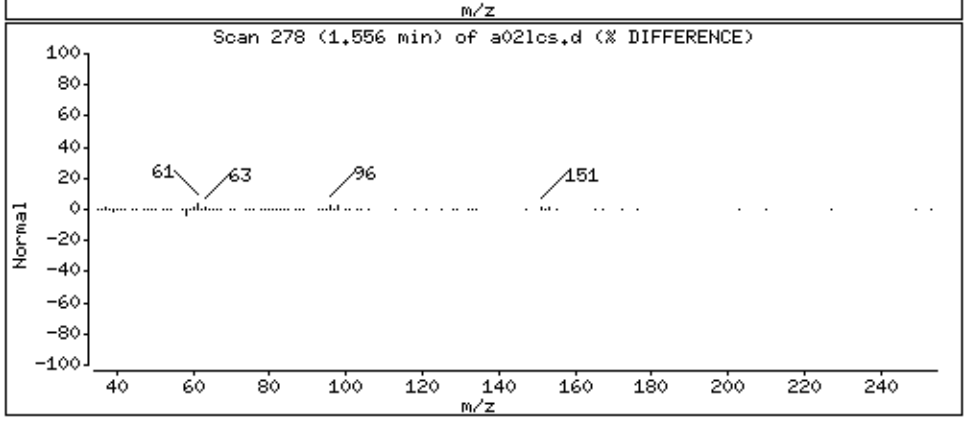












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

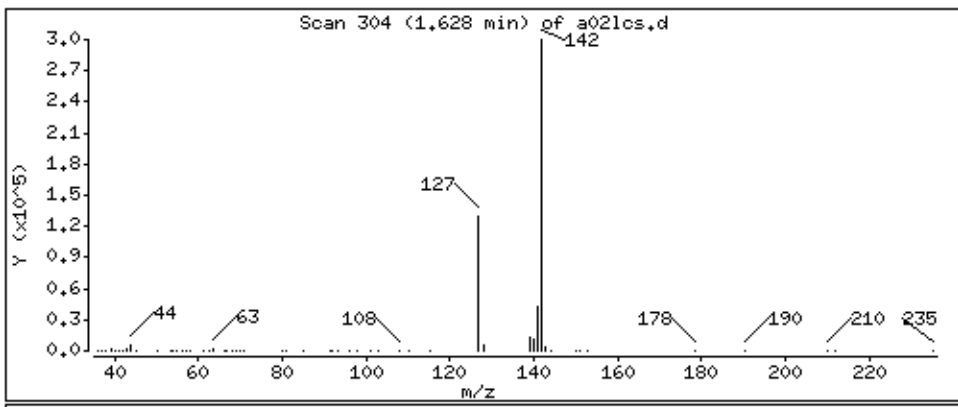
Operator: dae

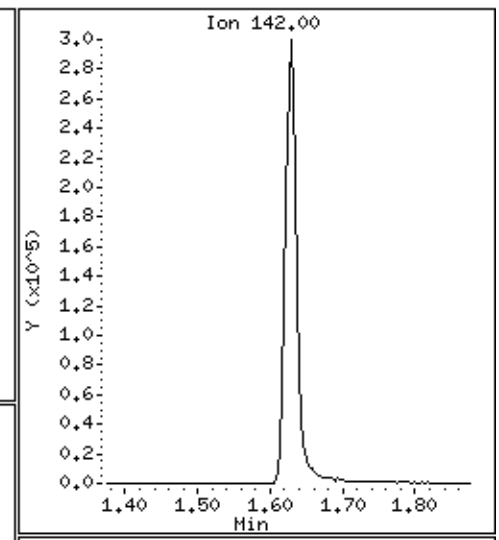
Column phase: DB-624

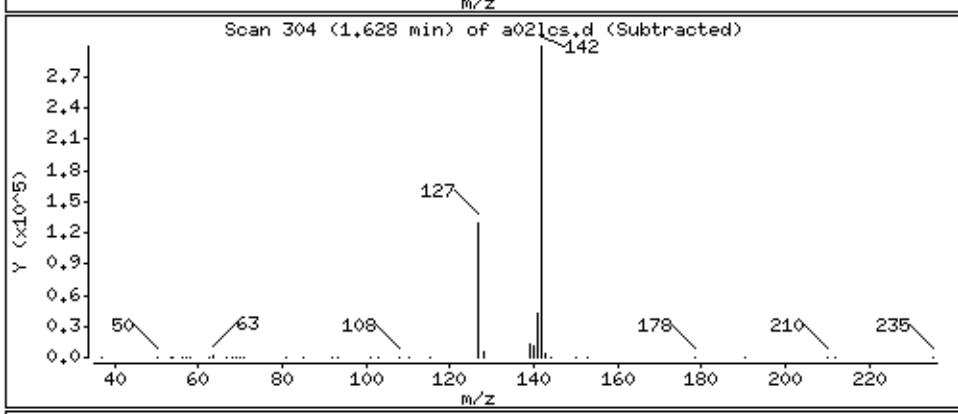
Column diameter: 0.18

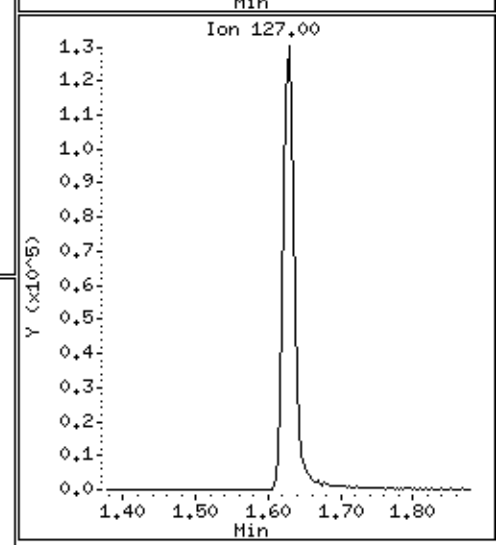
13 Iodomethane

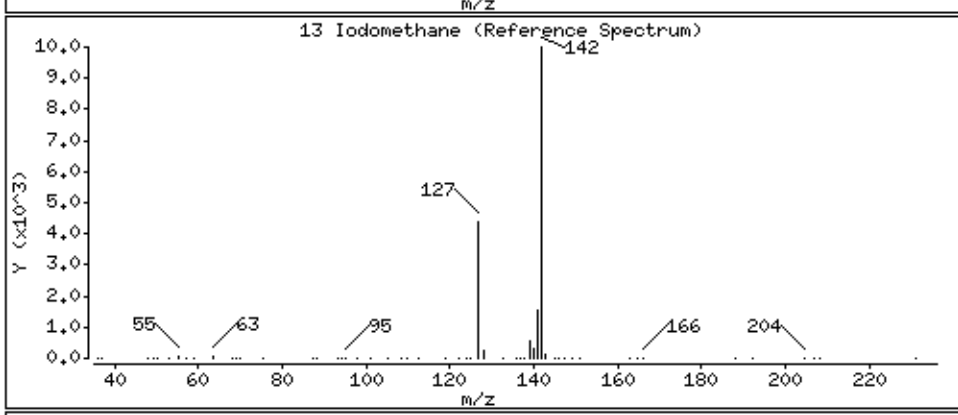
Concentration: 89.3 ppb

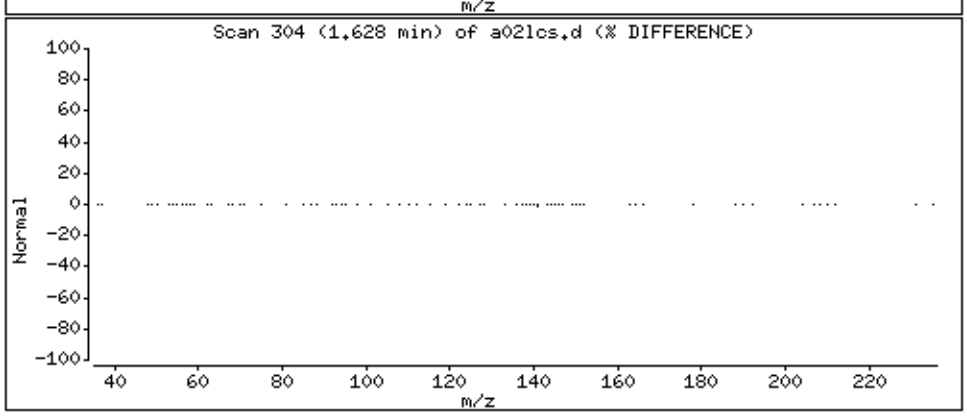












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

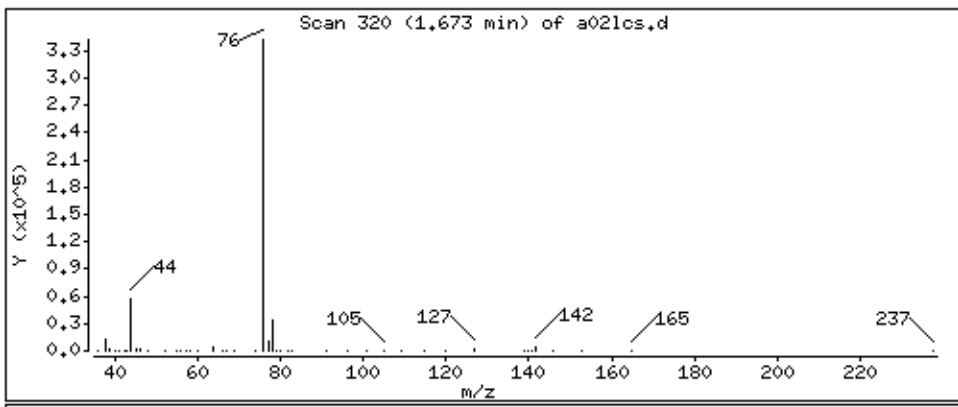
Operator: dae

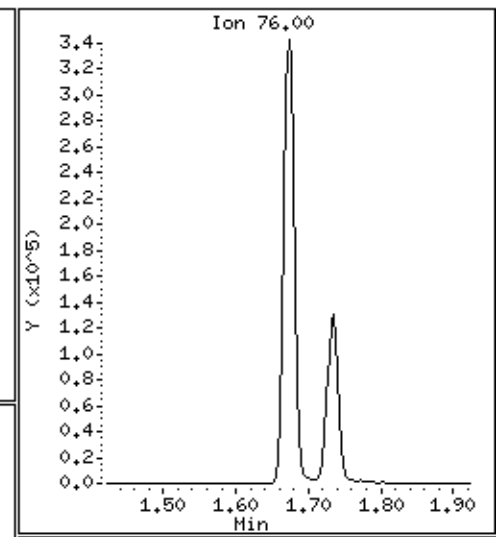
Column phase: DB-624

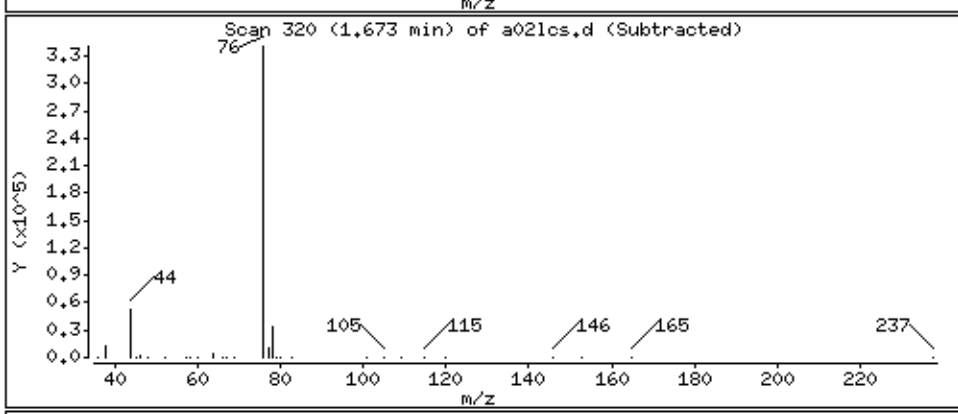
Column diameter: 0.18

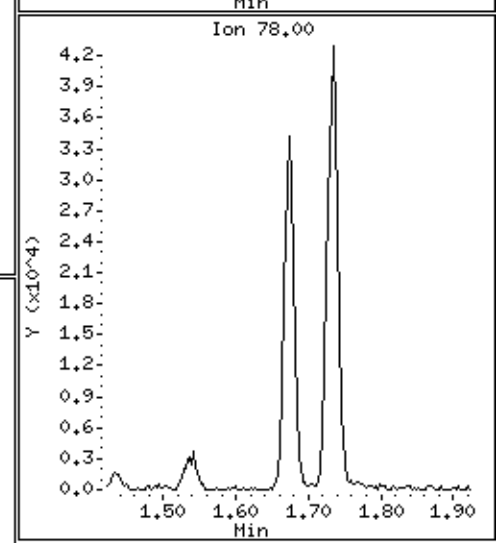
14 Carbon Disulfide

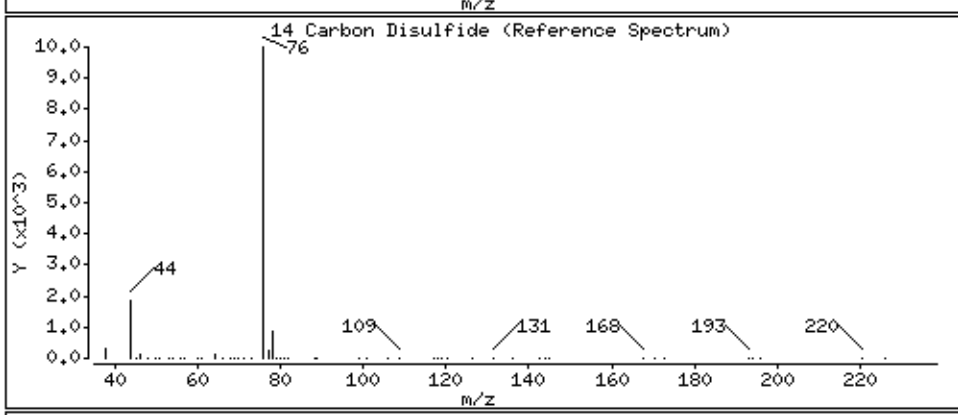
Concentration: 42.3 ppb

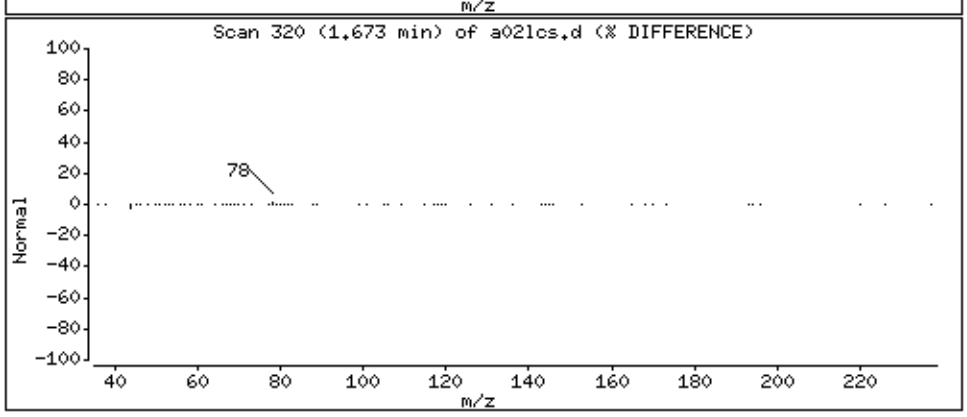












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

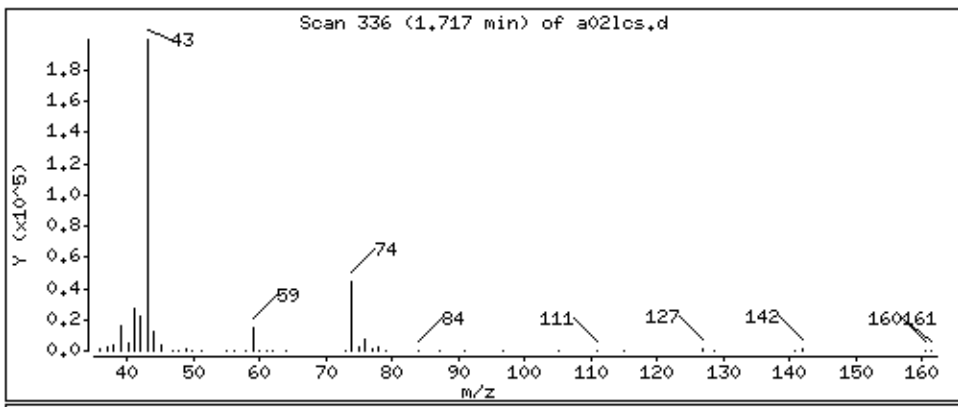
Operator: dae

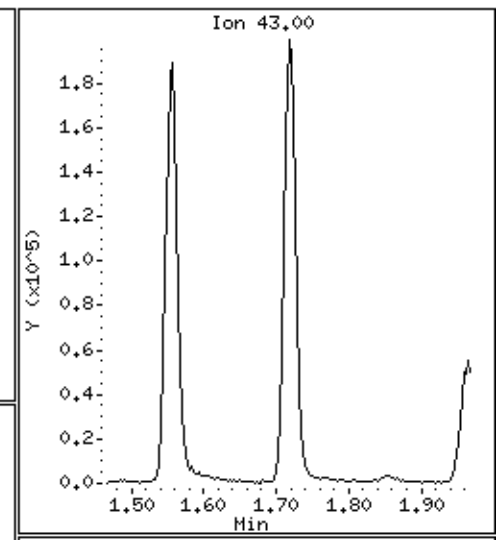
Column phase: DB-624

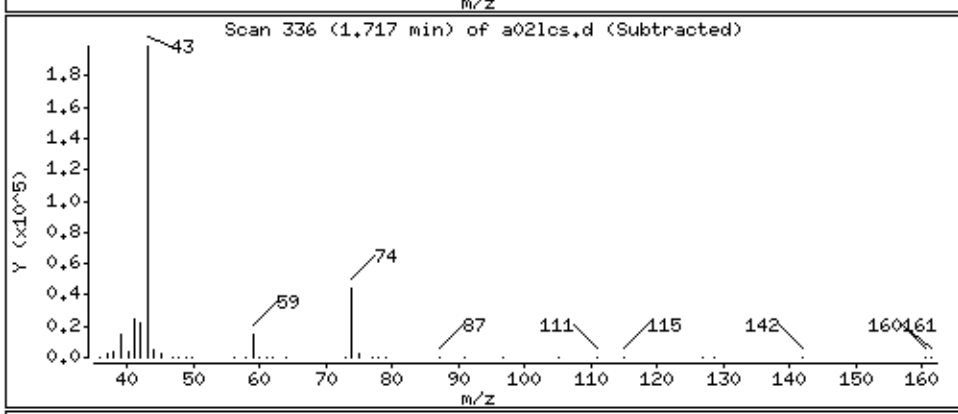
Column diameter: 0.18

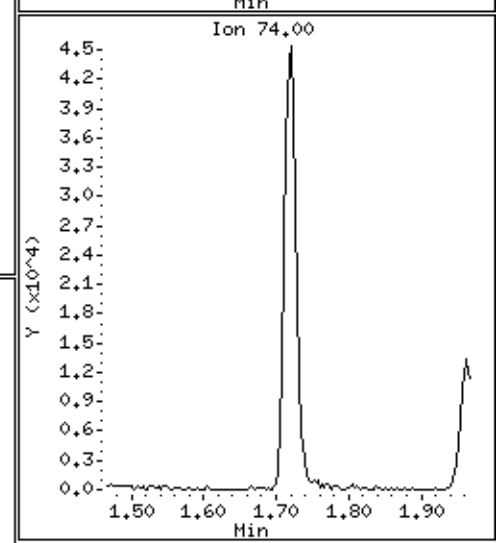
15 Methyl Acetate

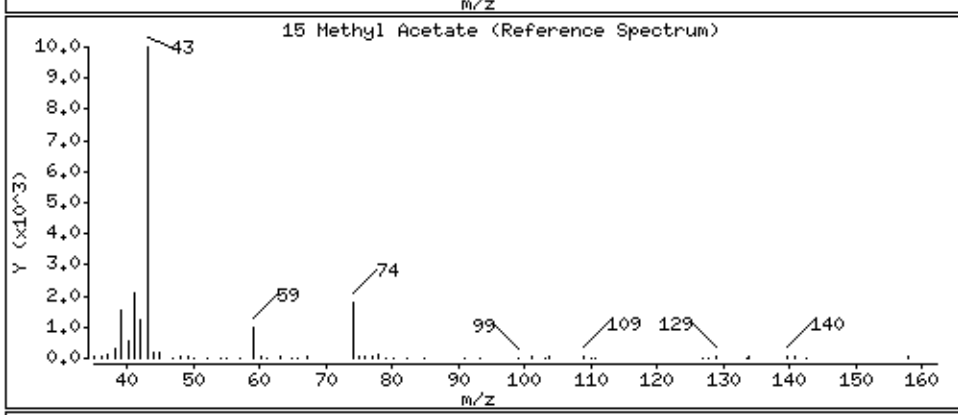
Concentration: 62.7 ppb

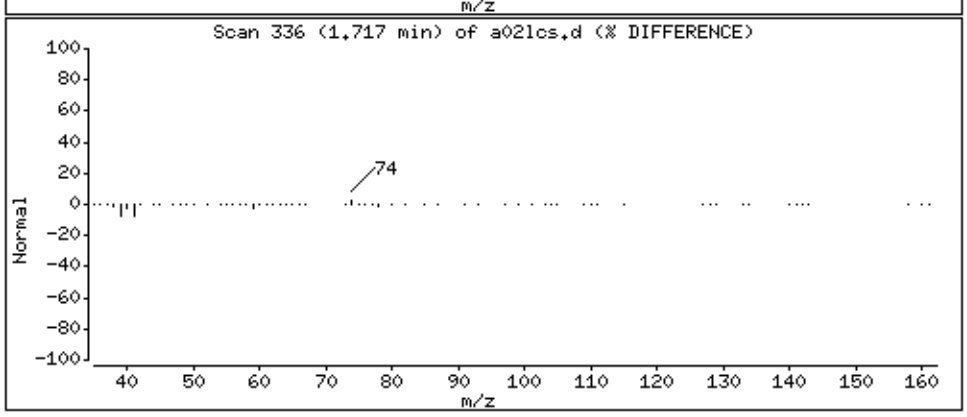












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

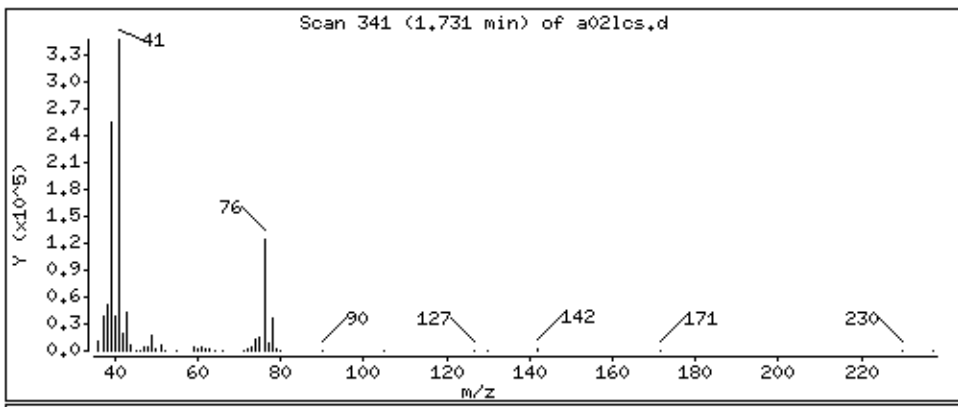
Operator: dae

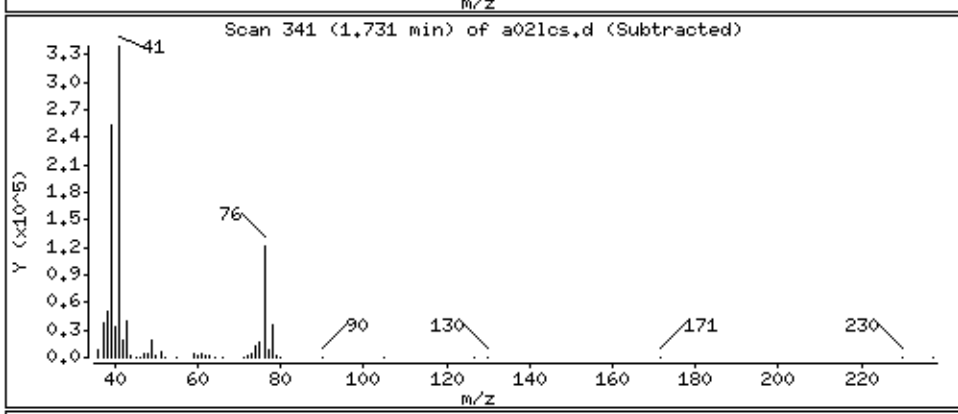
Column phase: DB-624

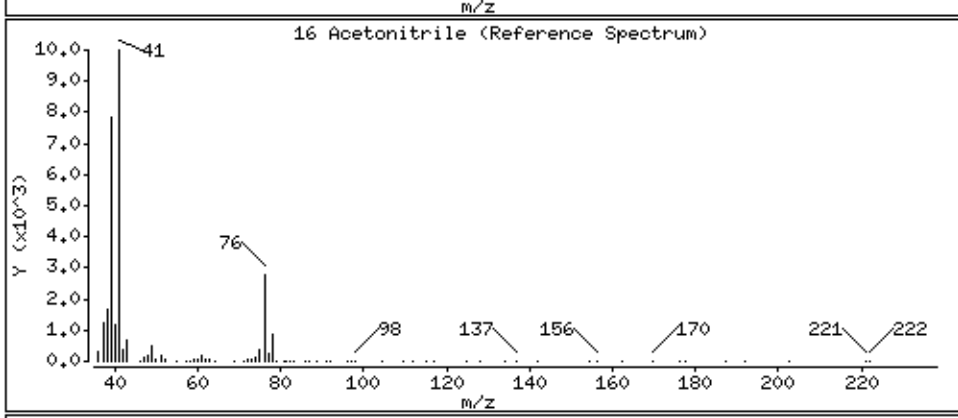
Column diameter: 0.18

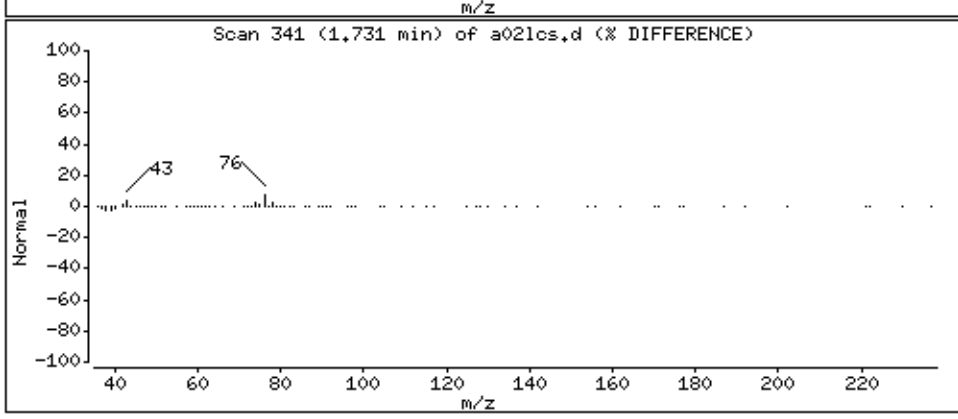
16 Acetonitrile

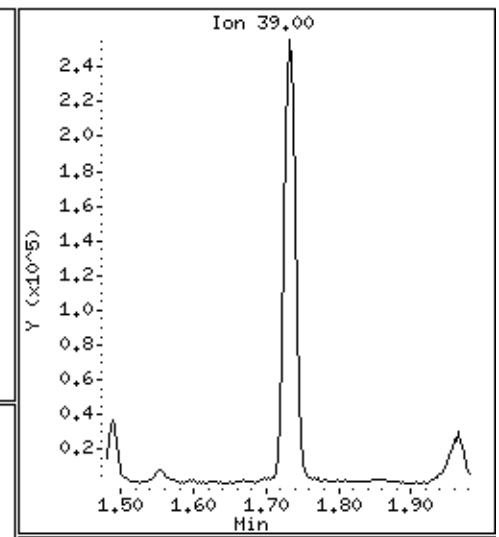
Concentration: 38.9 ppb

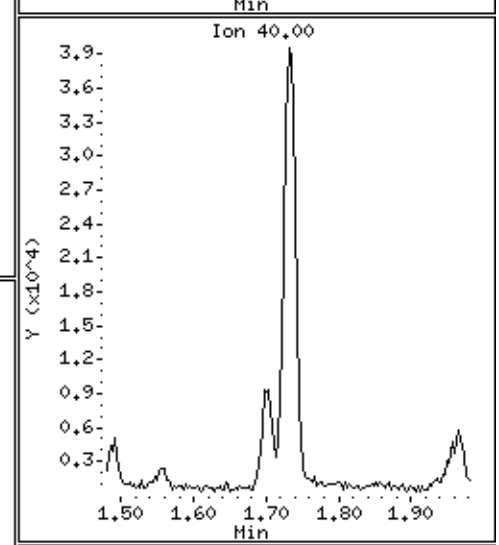


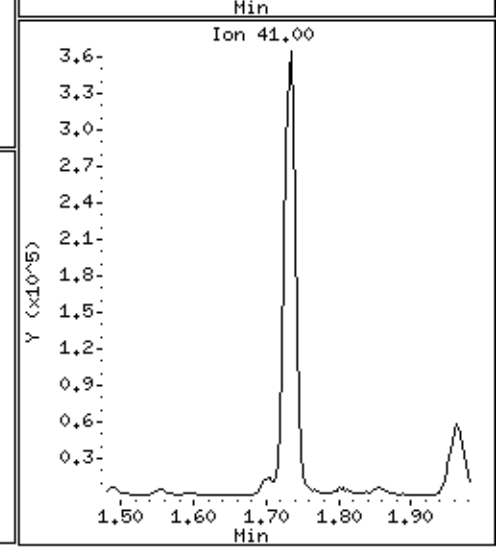












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

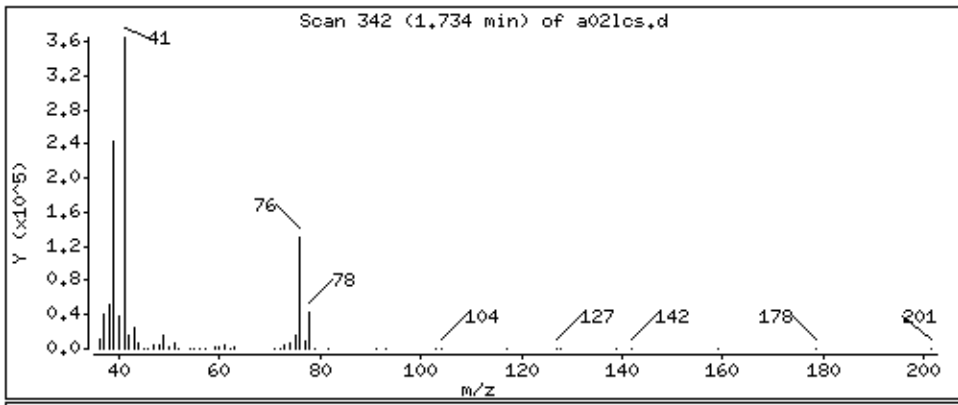
Operator: dae

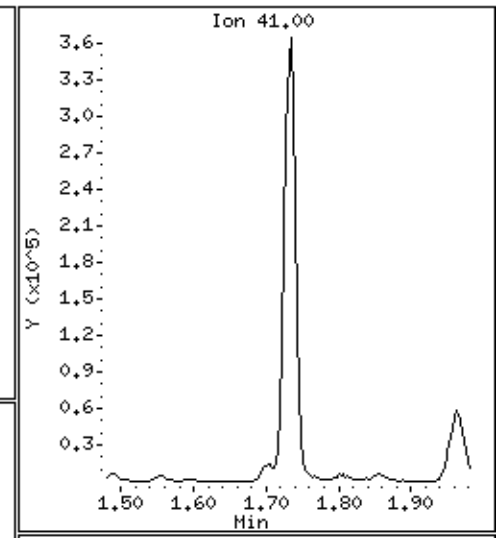
Column phase: DB-624

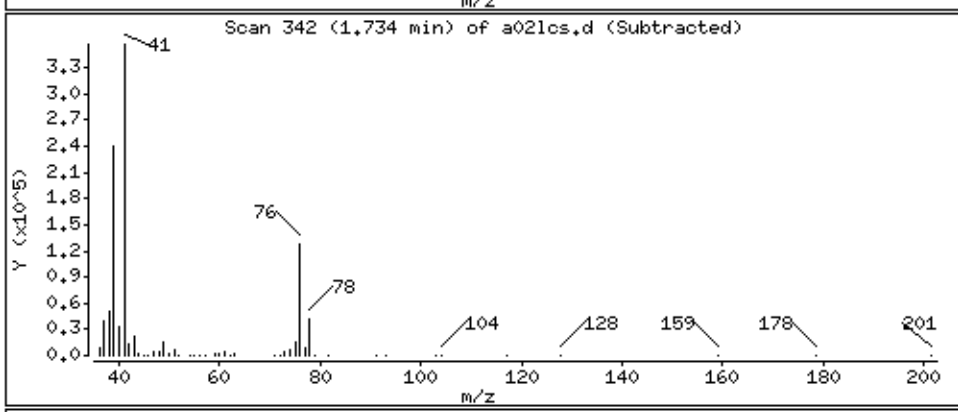
Column diameter: 0.18

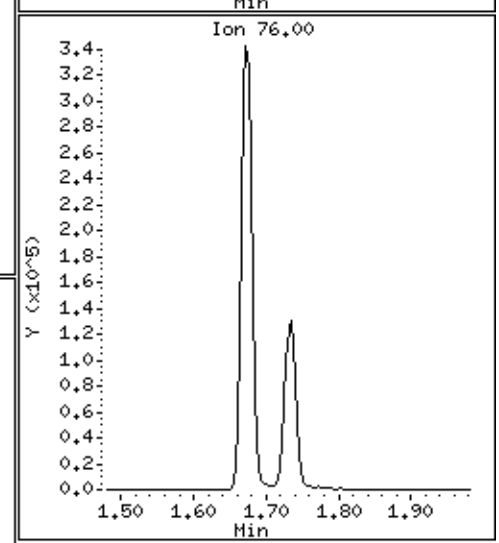
17 allyl chloride

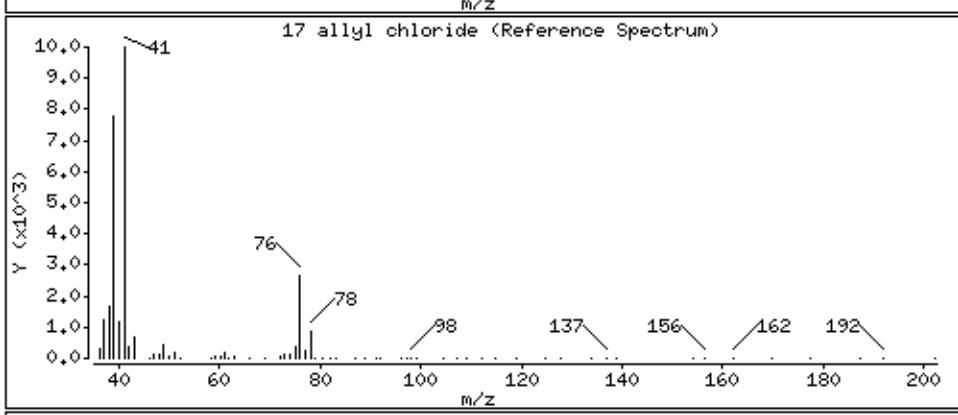
Concentration: 81.8 ppb

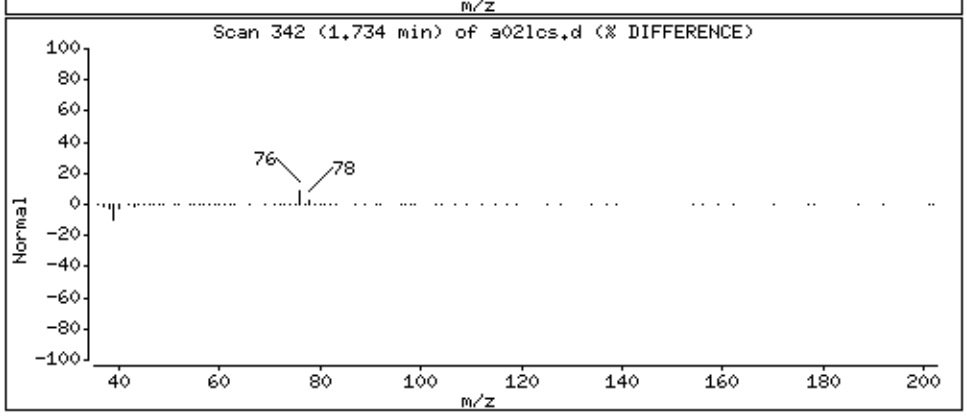












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

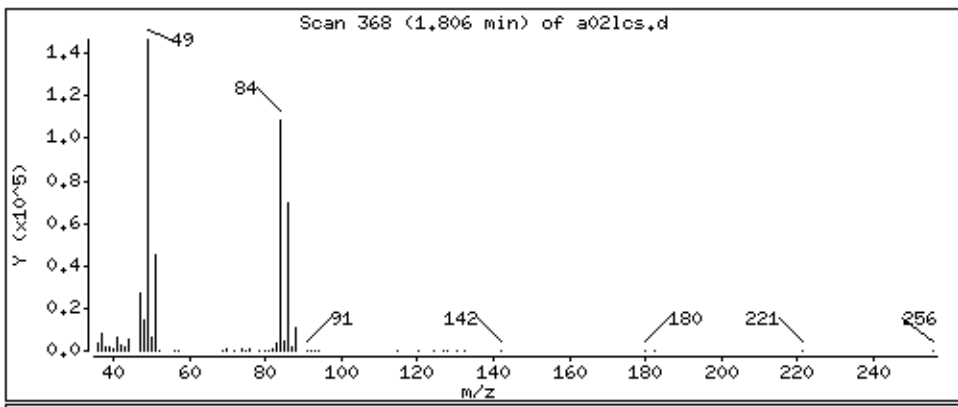
Operator: dae

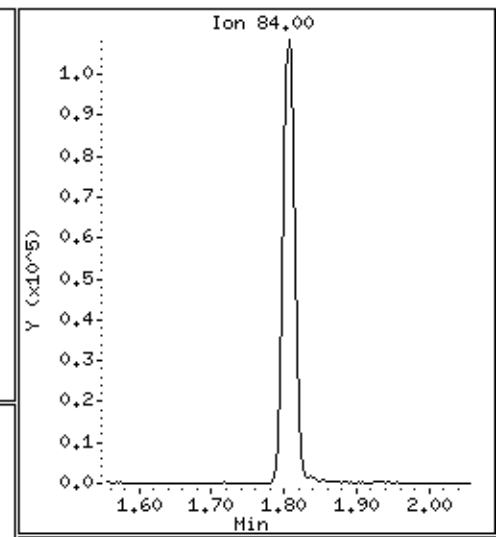
Column phase: DB-624

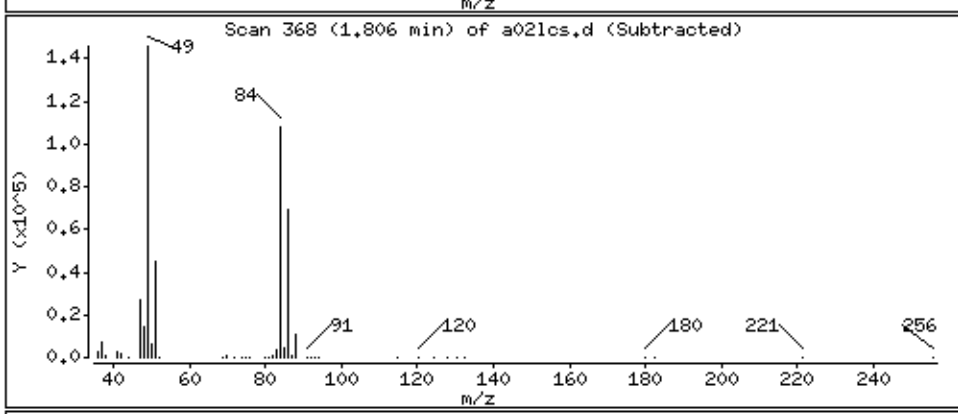
Column diameter: 0.18

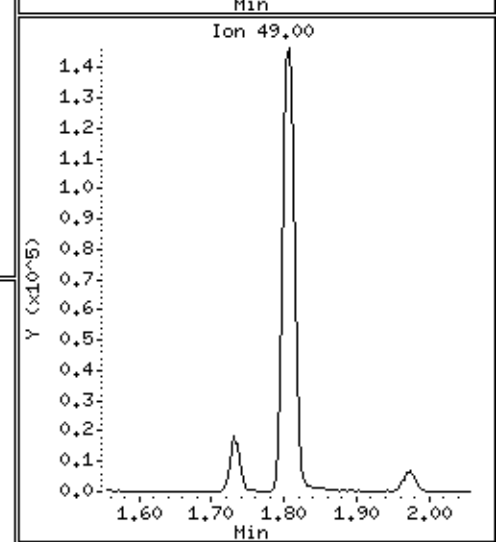
18 Methylene Chloride

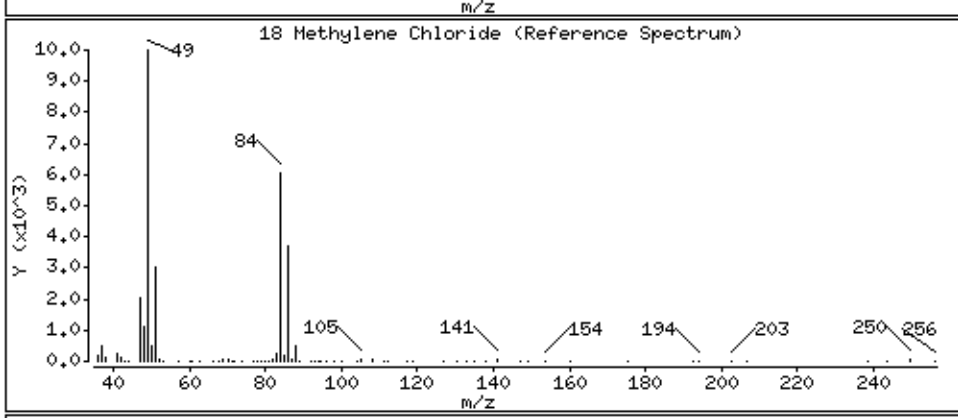
Concentration: 47.4 ppb

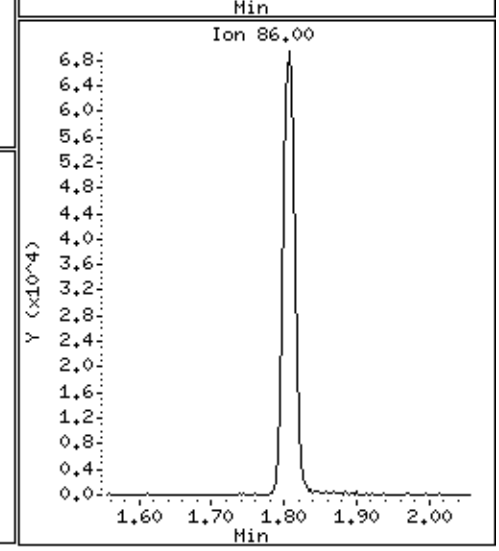


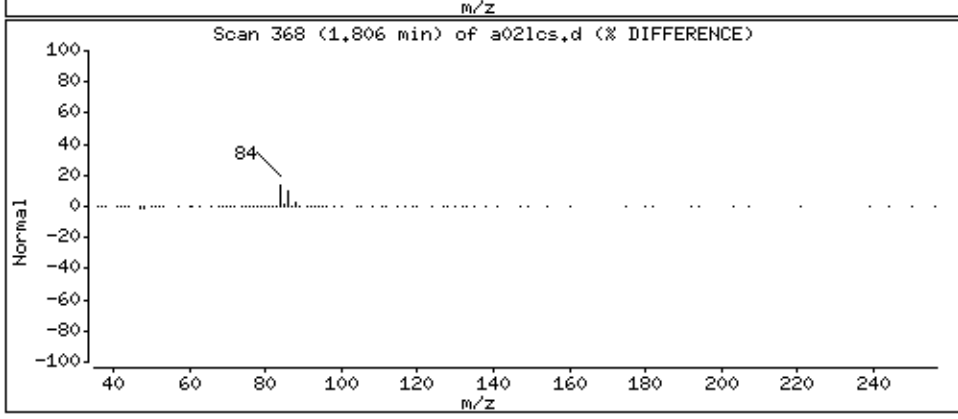












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

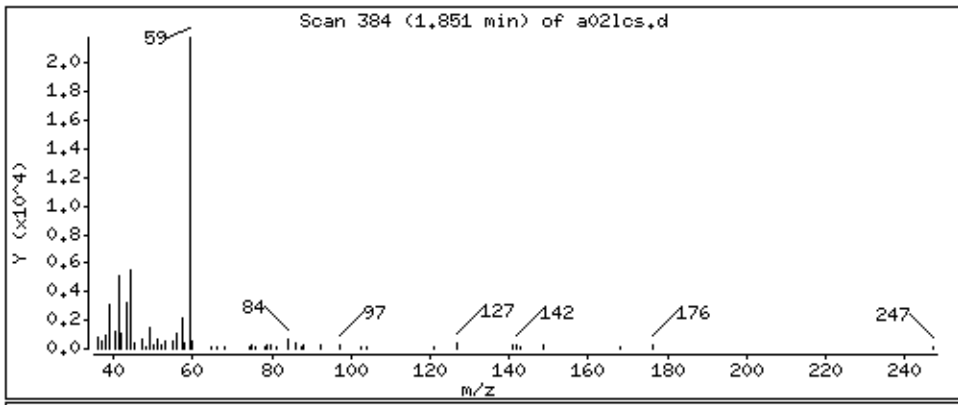
Operator: dae

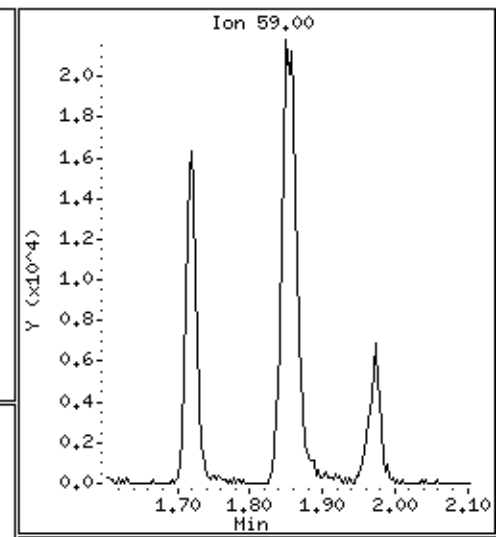
Column phase: DB-624

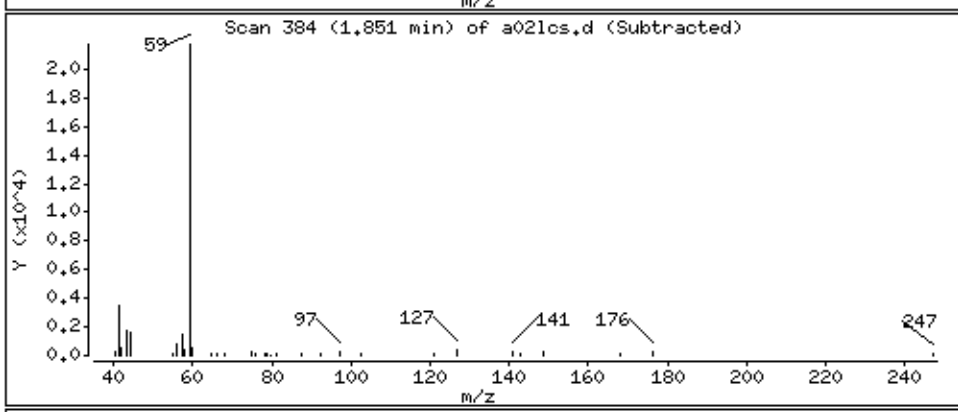
Column diameter: 0.18

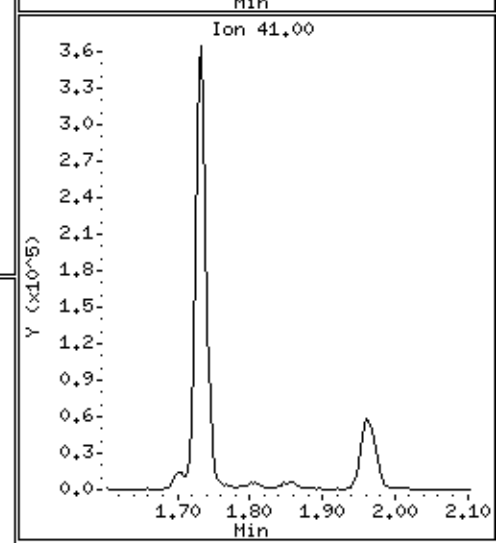
19 tert-Butyl Alcohol

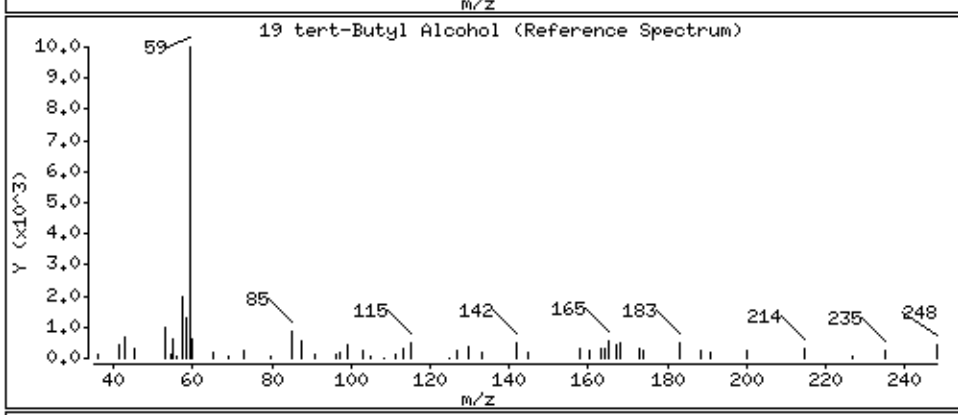
Concentration: 92.8 ppb

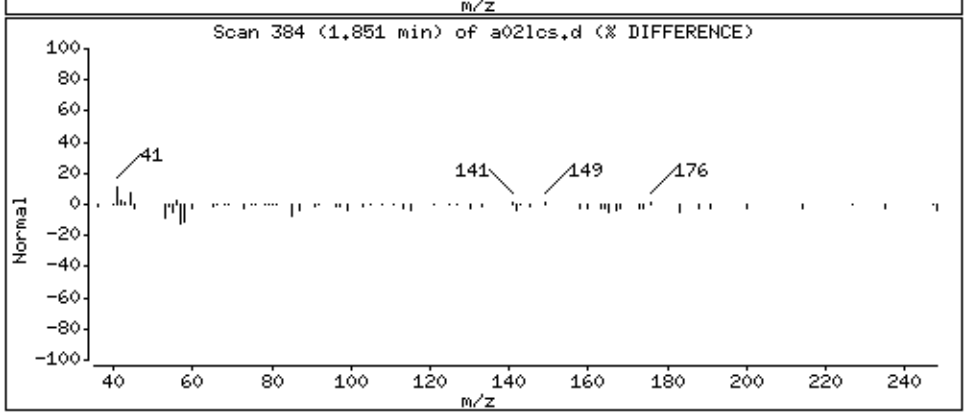












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

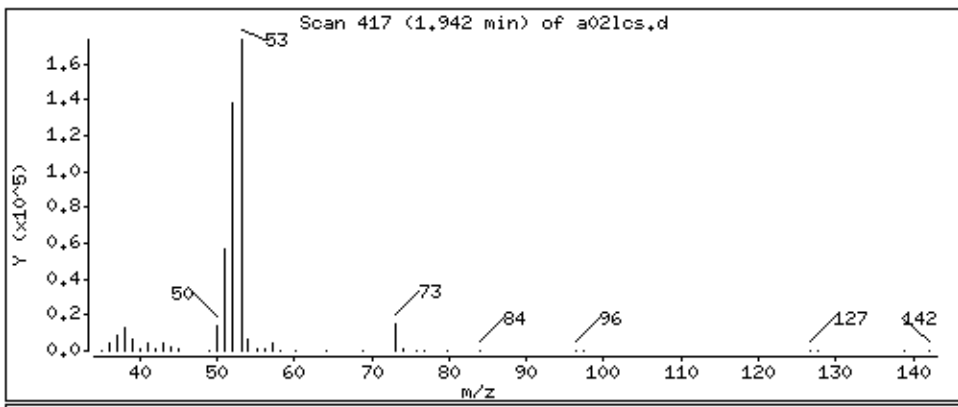
Operator: dae

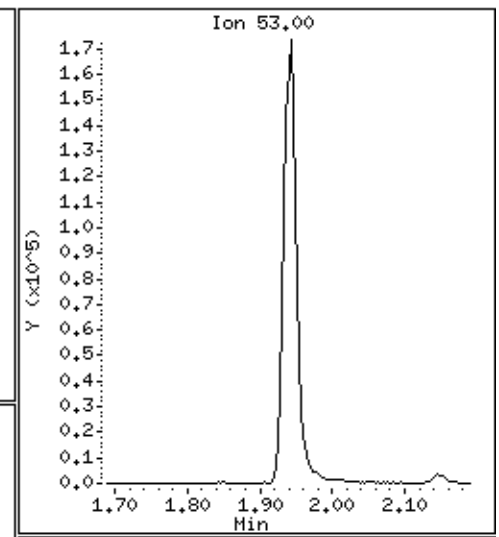
Column phase: DB-624

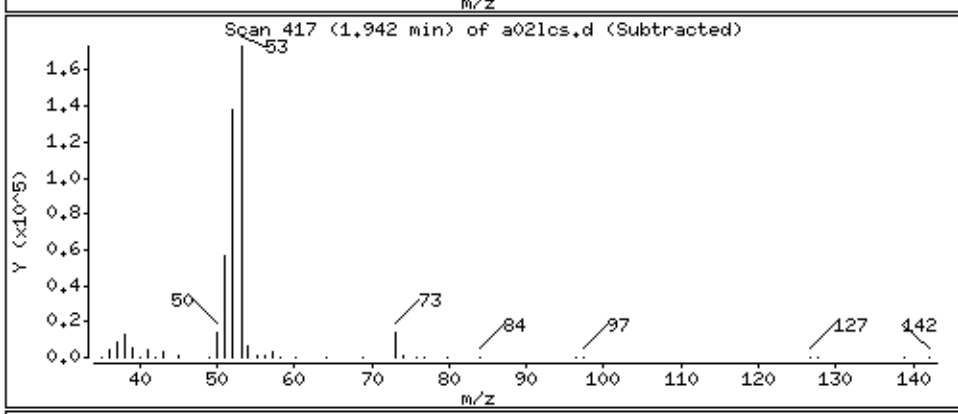
Column diameter: 0.18

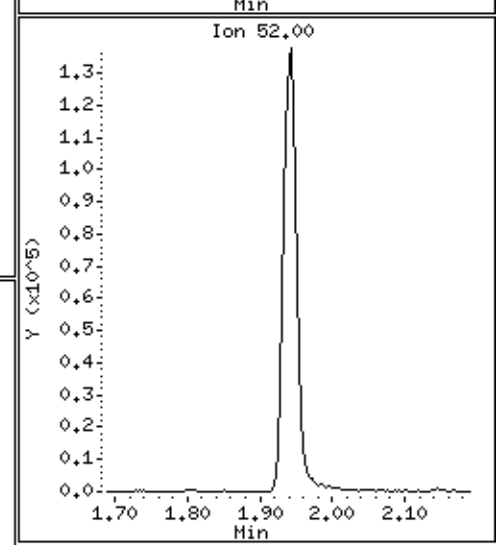
20 Acrylonitrile

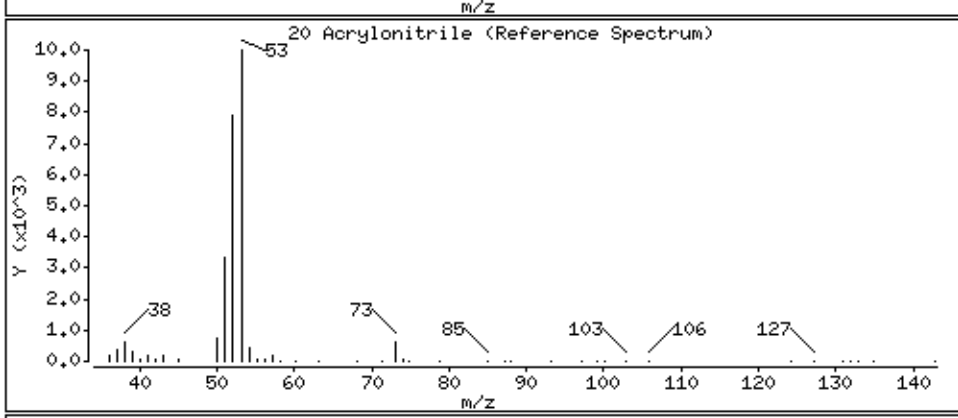
Concentration: 177 ppb

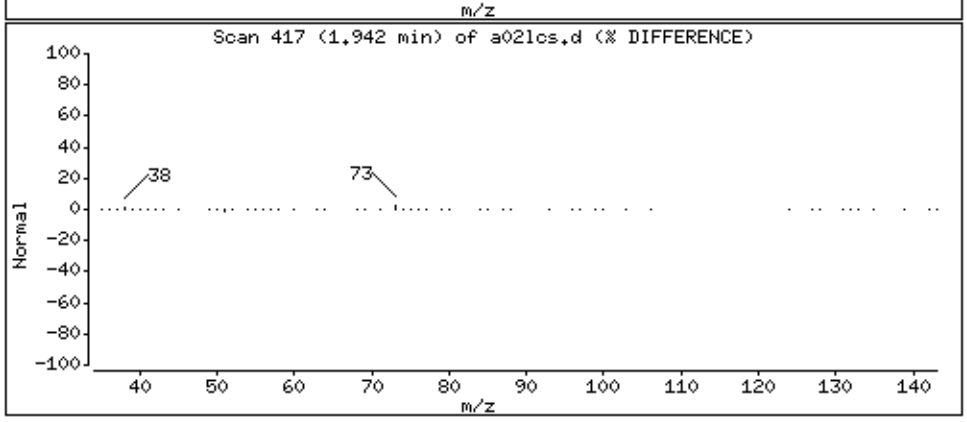












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

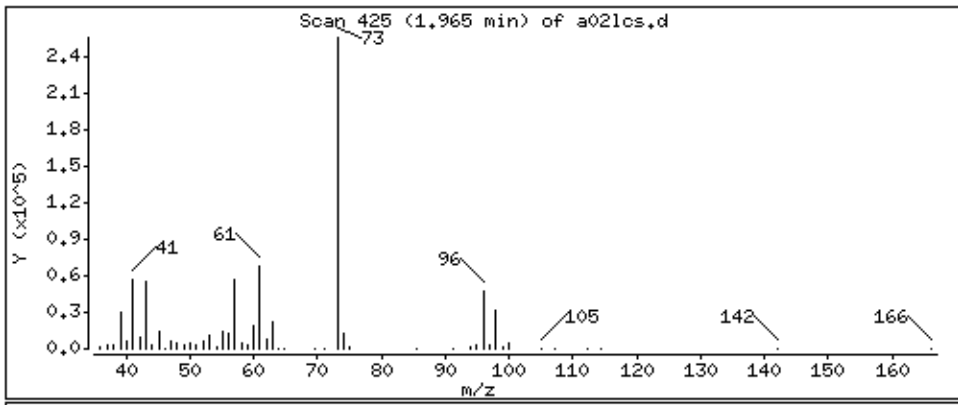
Operator: dae

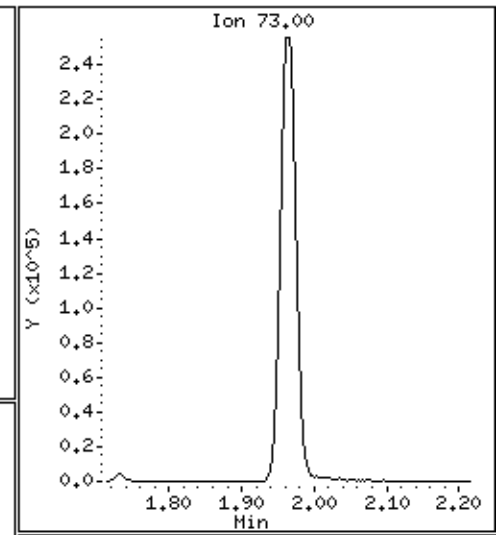
Column phase: DB-624

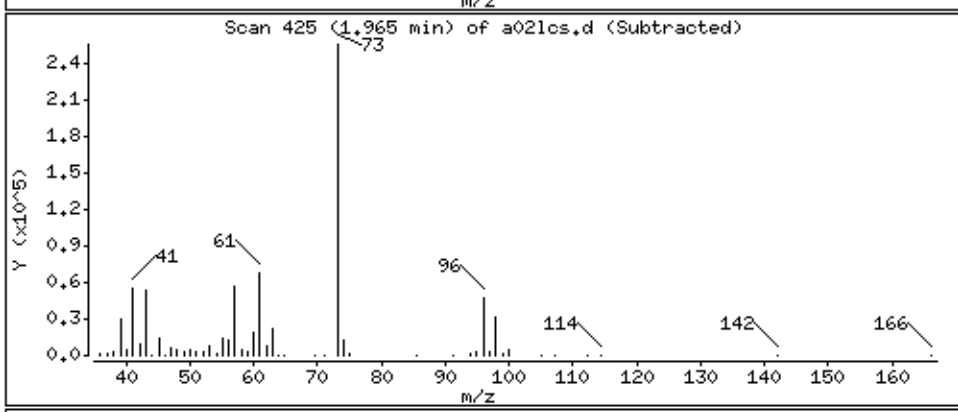
Column diameter: 0.18

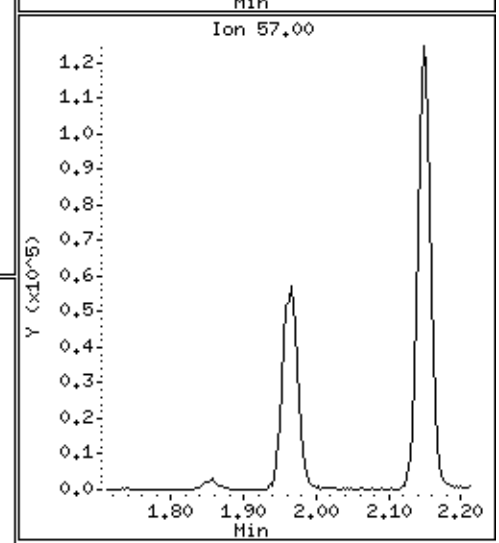
21 Methyl-tert-butyl ether

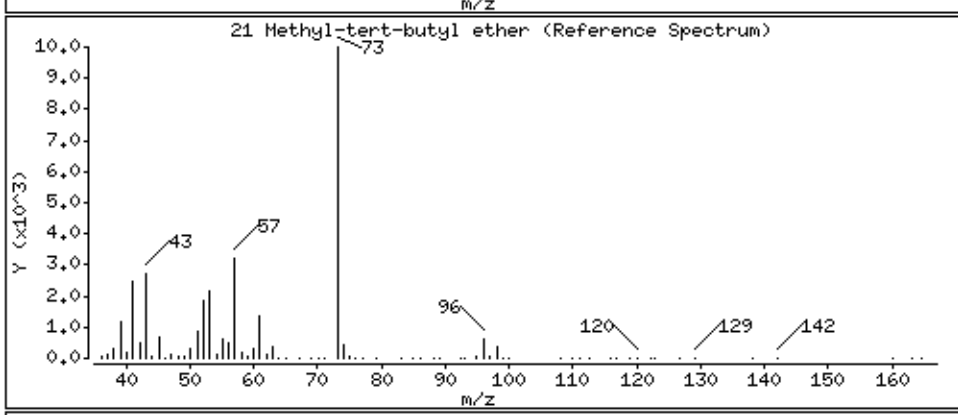
Concentration: 41.6 ppb

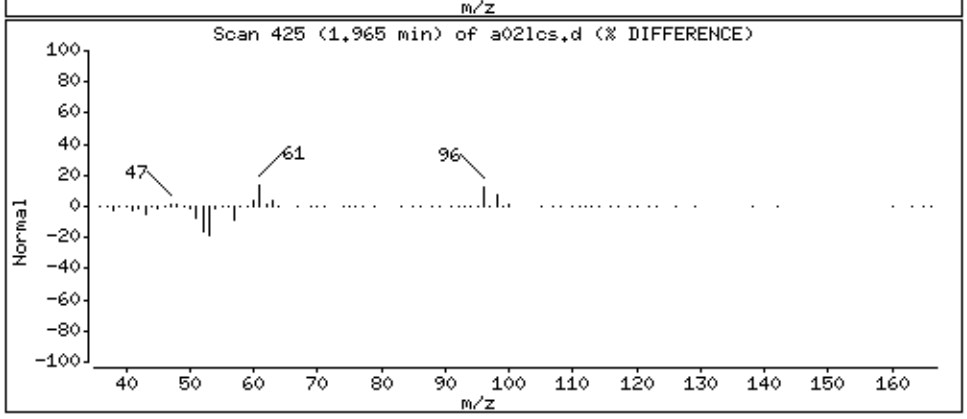












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

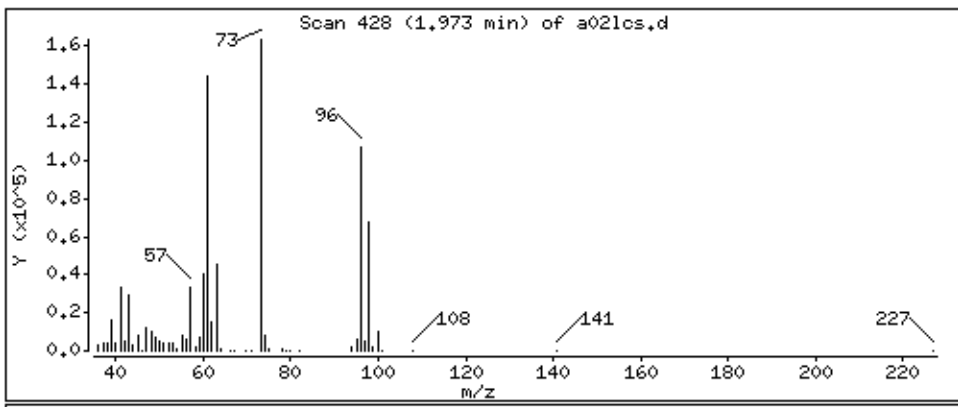
Operator: dae

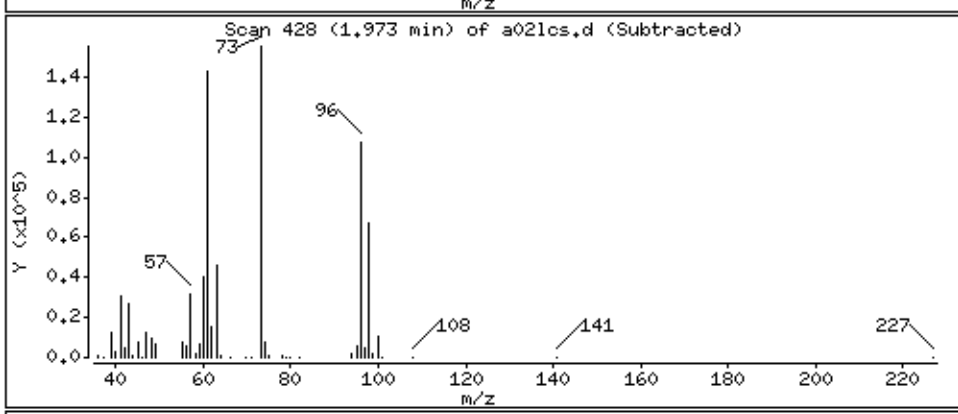
Column phase: DB-624

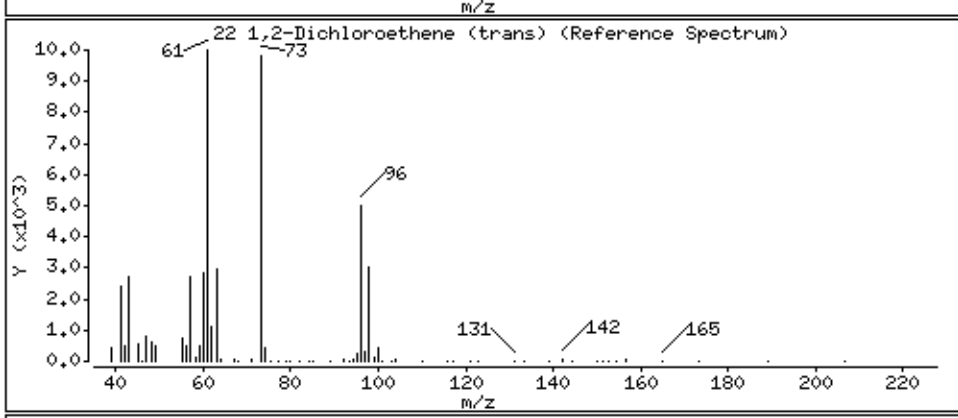
Column diameter: 0.18

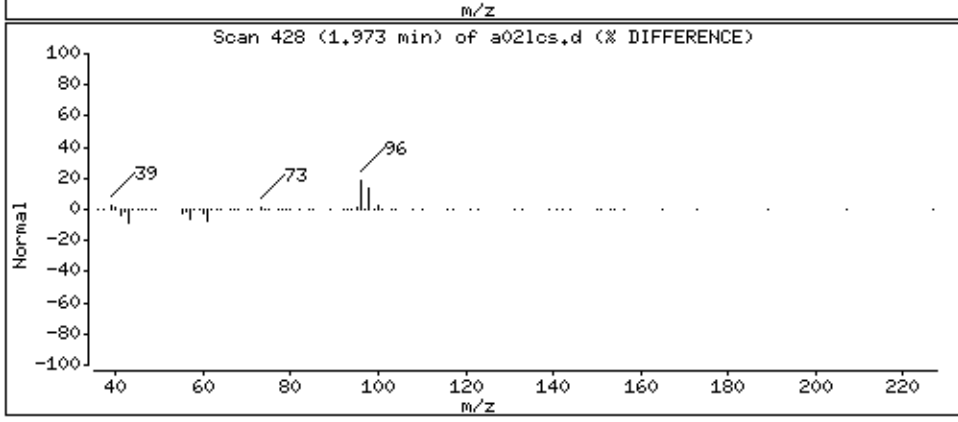
22 1,2-Dichloroethene (trans)

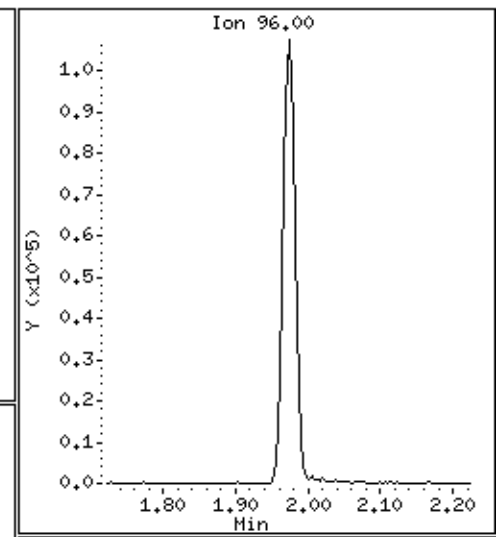
Concentration: 44.8 ppb

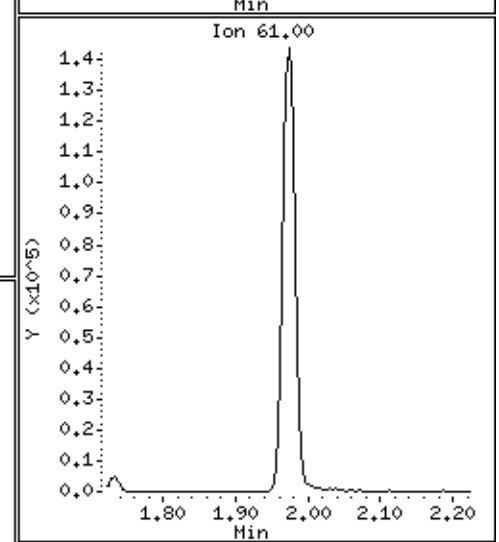


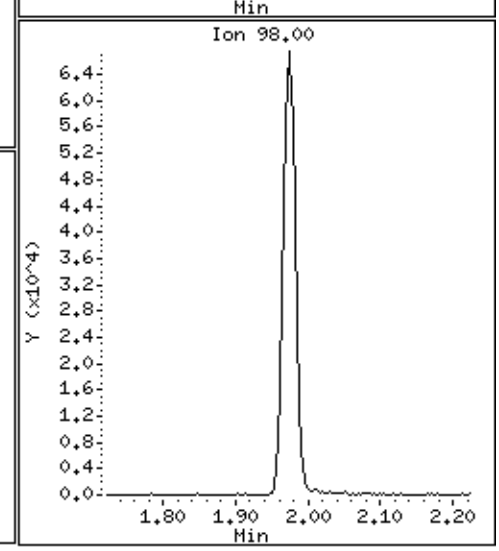












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

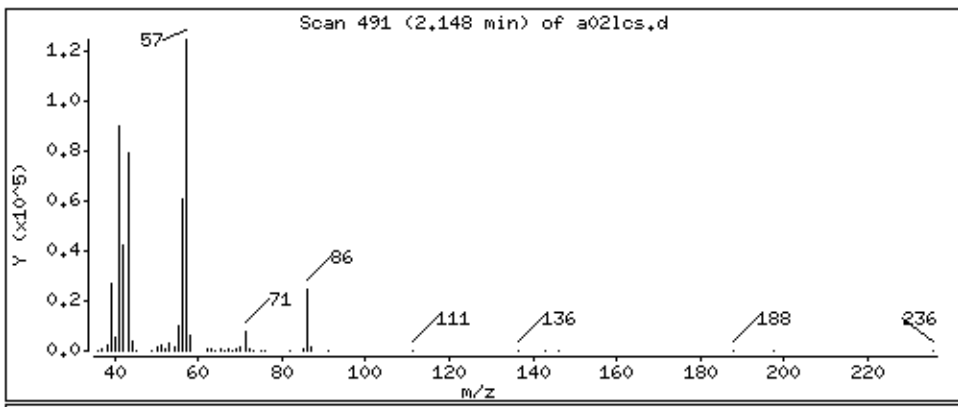
Operator: dae

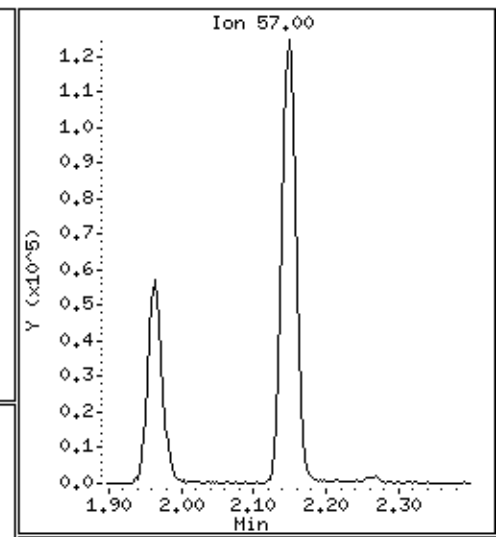
Column phase: DB-624

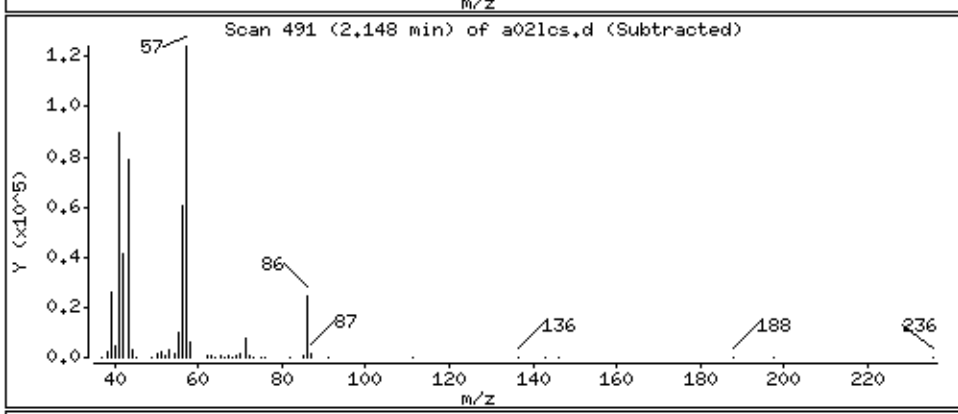
Column diameter: 0.18

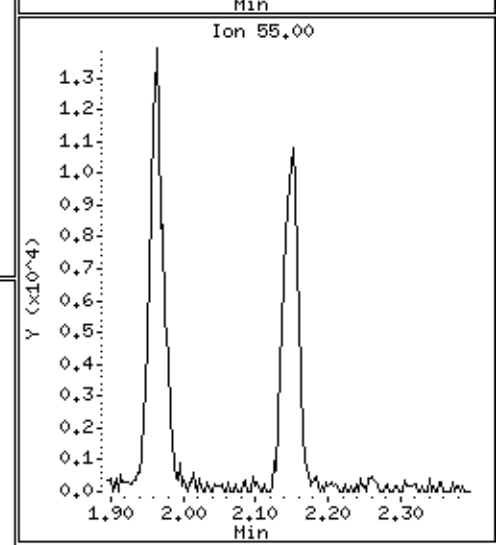
23 n-Hexane

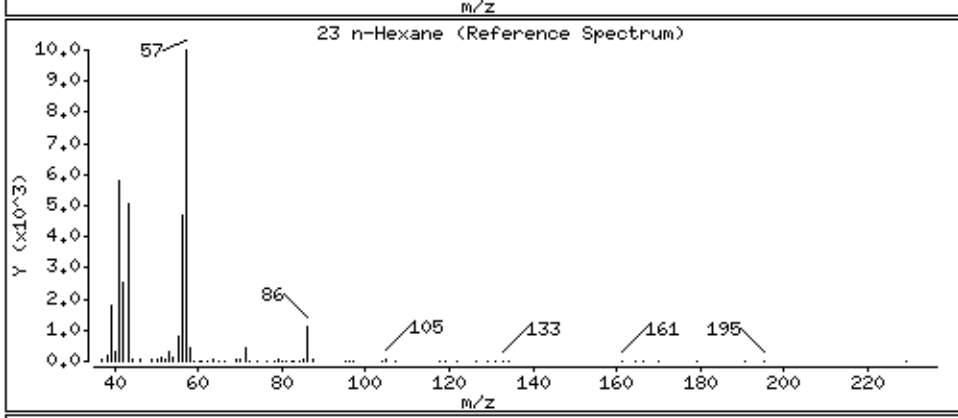
Concentration: 43.9 ppb

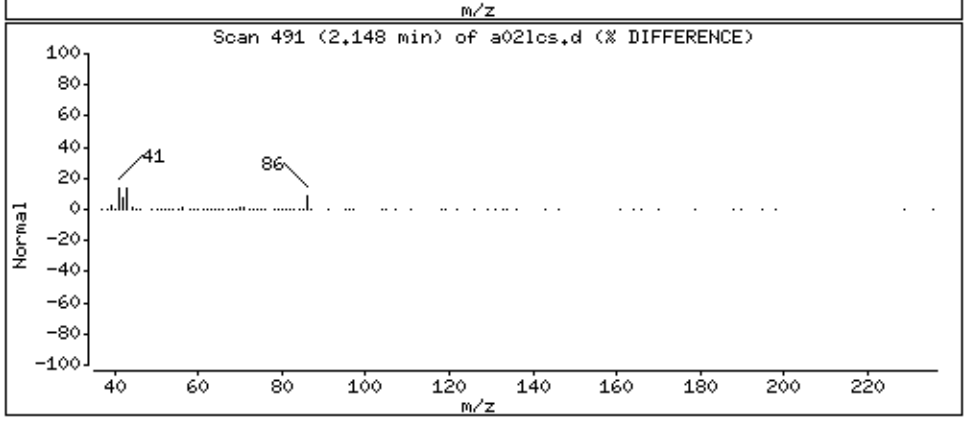












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

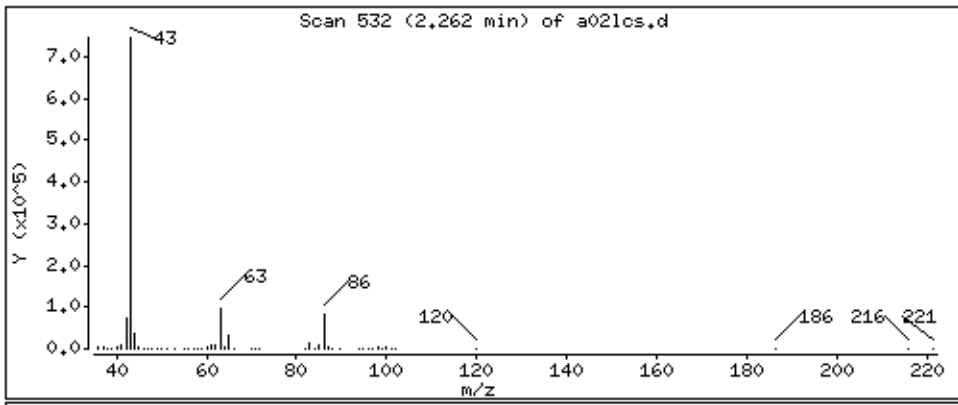
Operator: dae

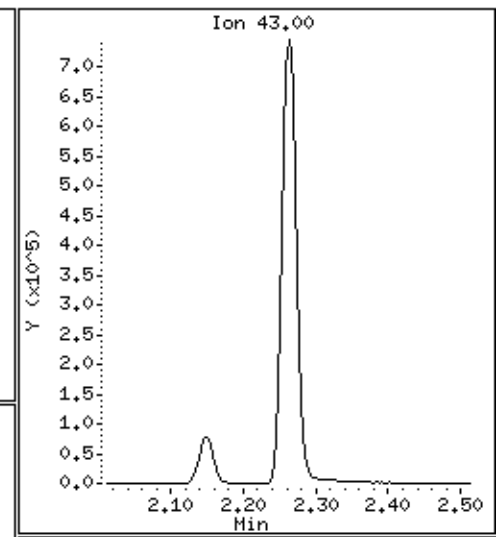
Column phase: DB-624

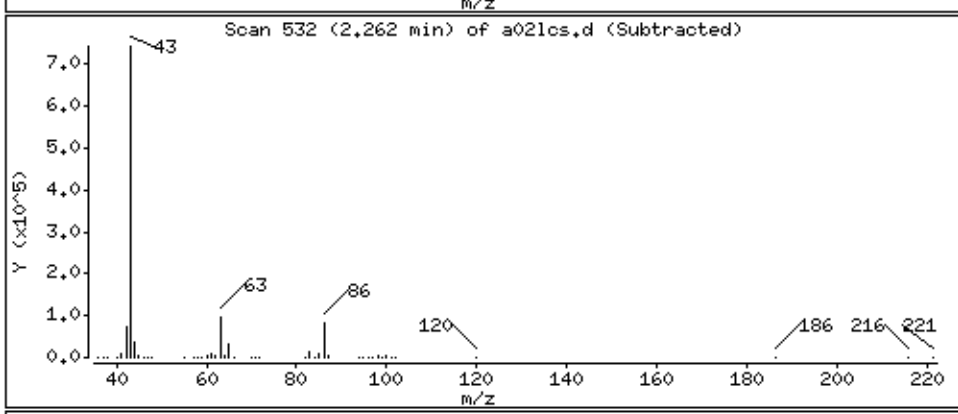
Column diameter: 0.18

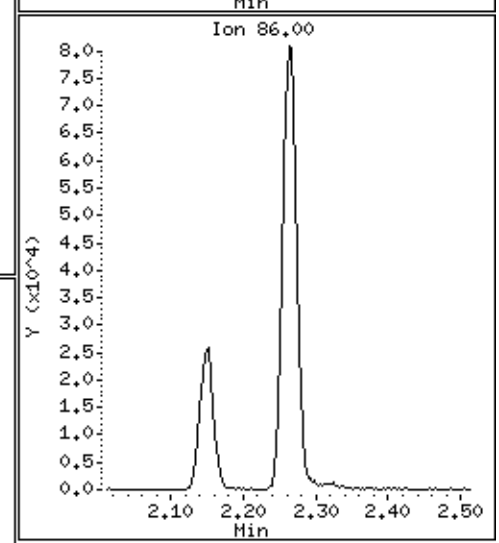
24 Vinyl Acetate

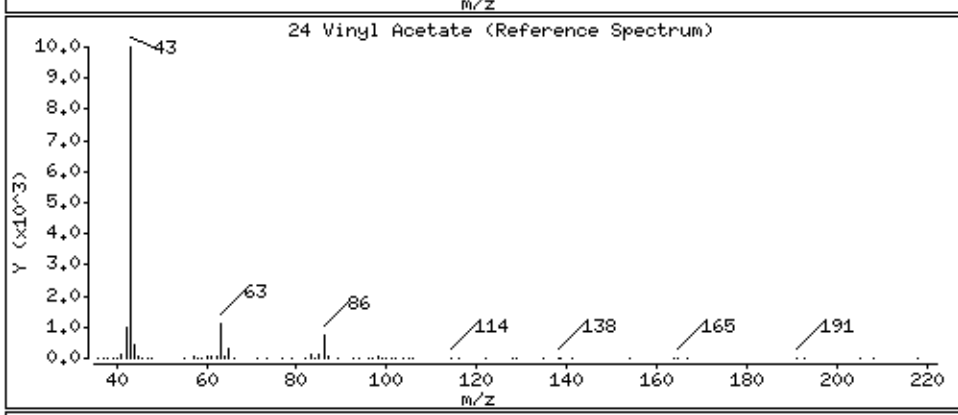
Concentration: 167 ppb

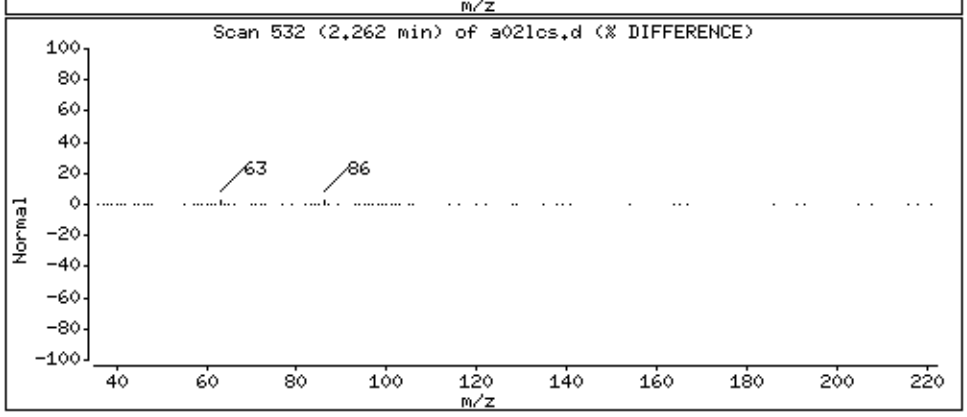












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

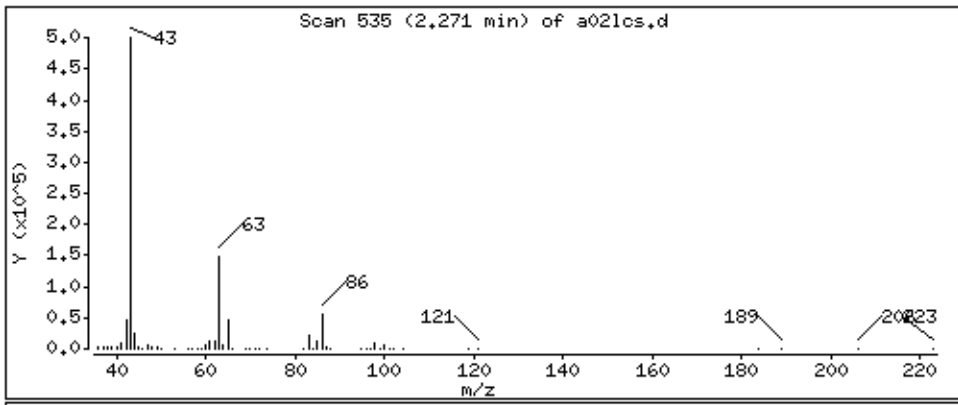
Operator: dae

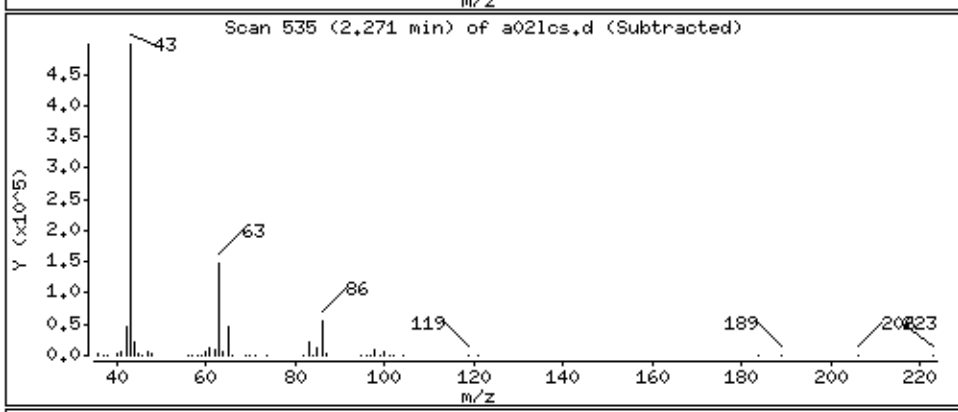
Column phase: DB-624

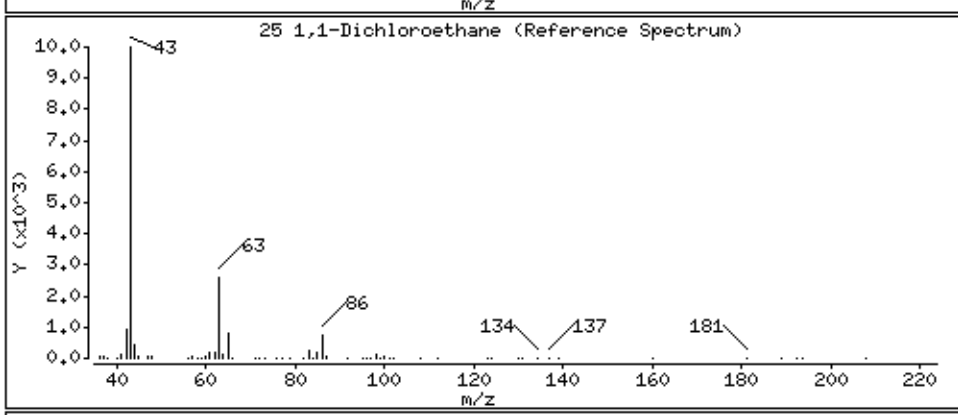
Column diameter: 0.18

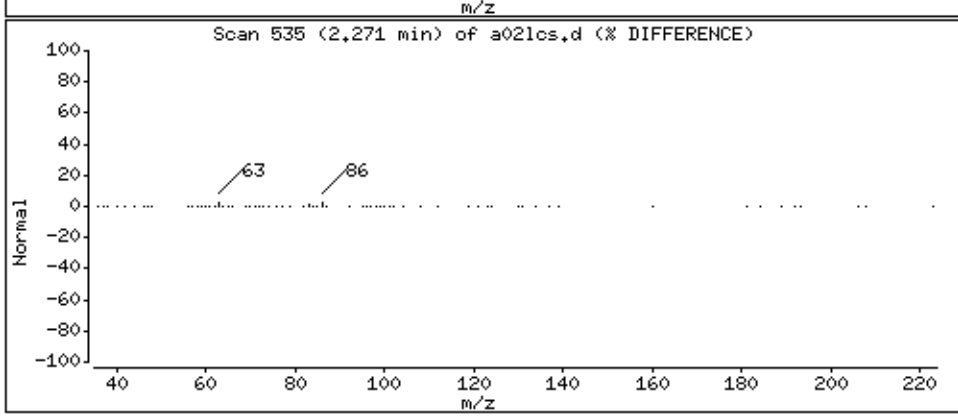
25 1,1-Dichloroethane

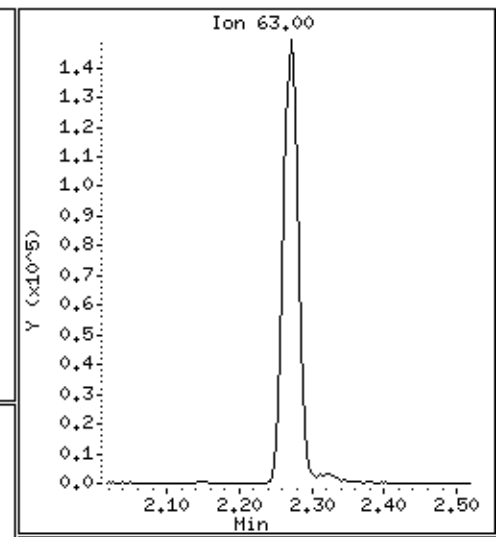
Concentration: 43.7 ppb

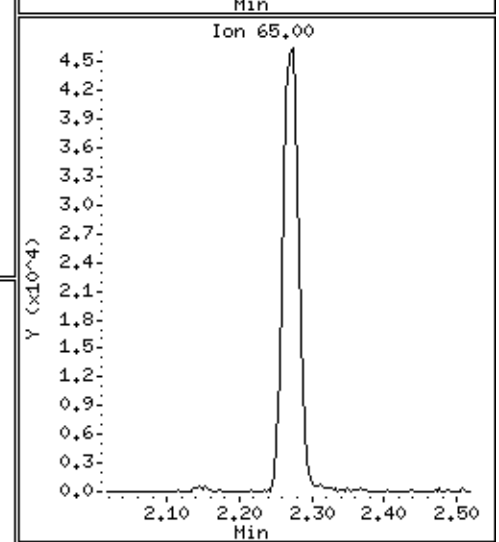


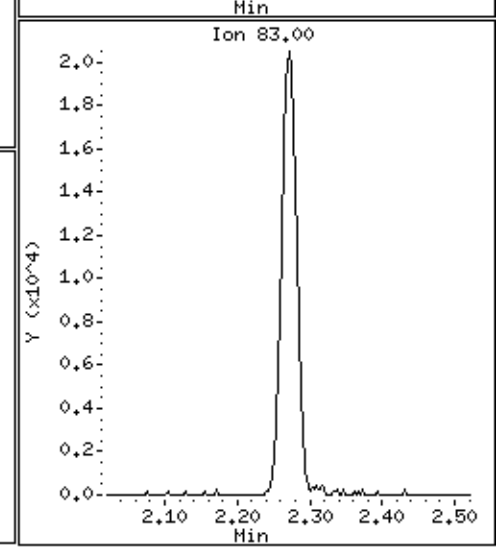












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

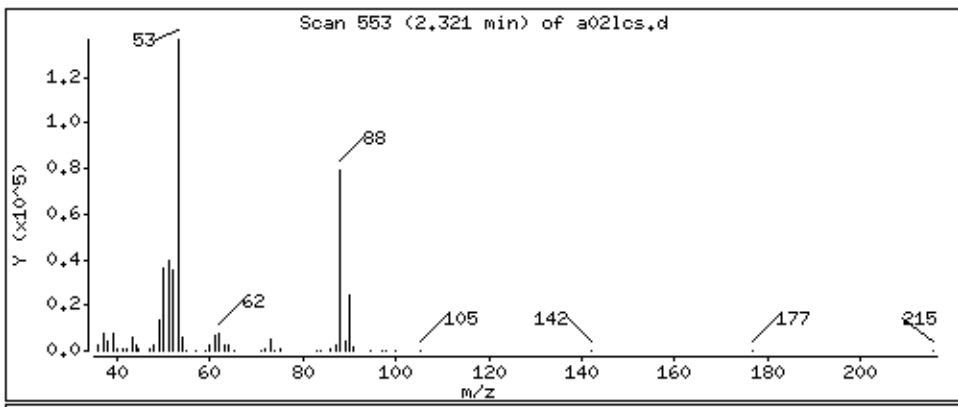
Operator: dae

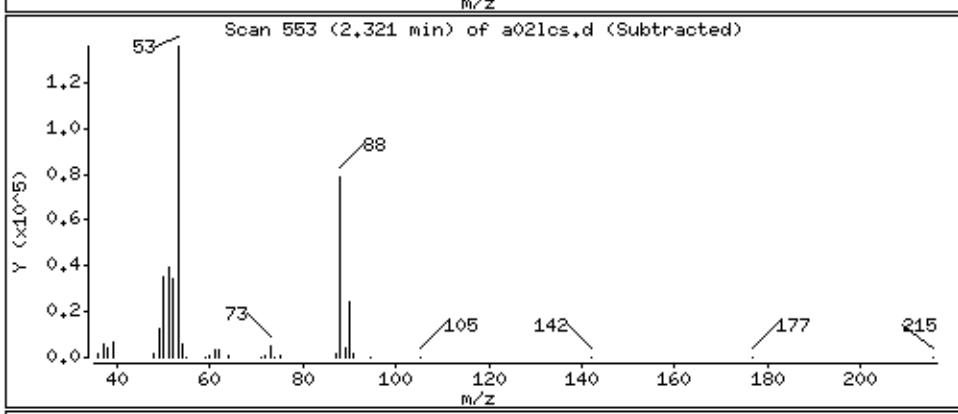
Column phase: DB-624

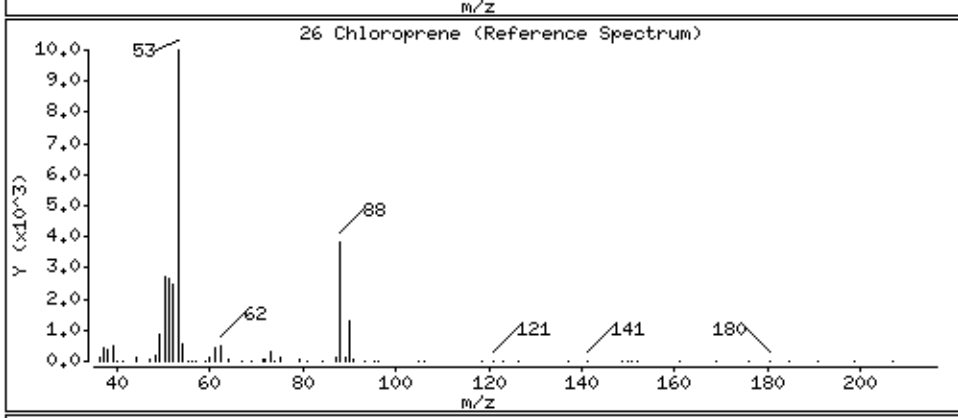
Column diameter: 0.18

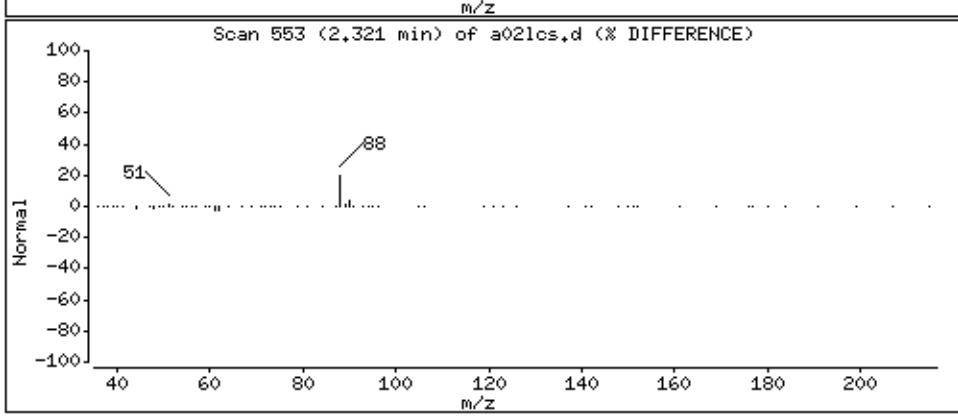
26 Chloroprene

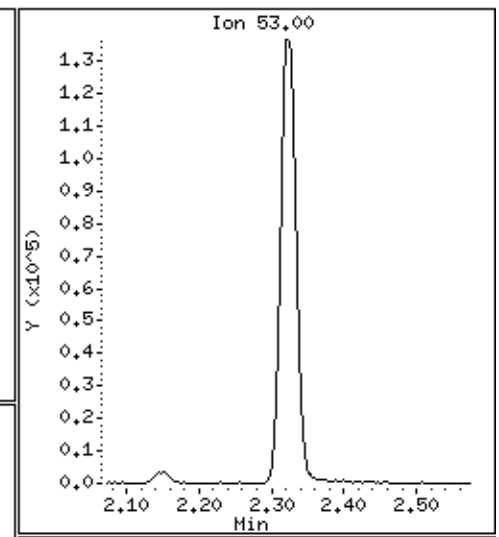
Concentration: 45.8 ppb

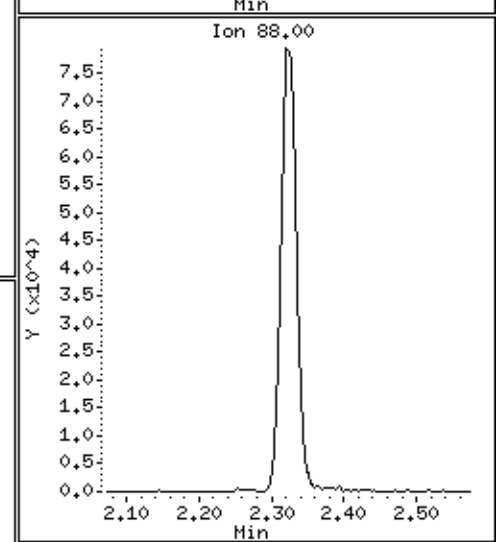


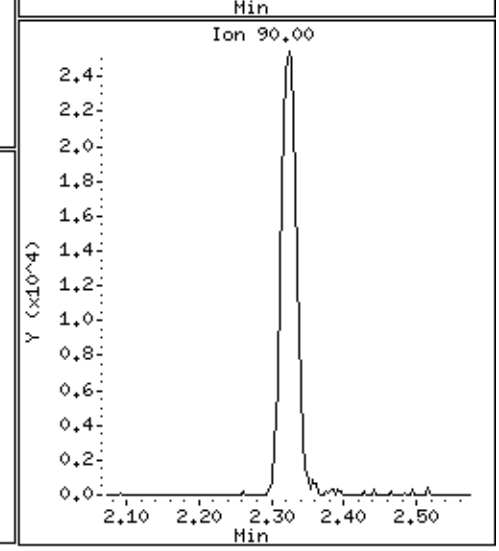












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

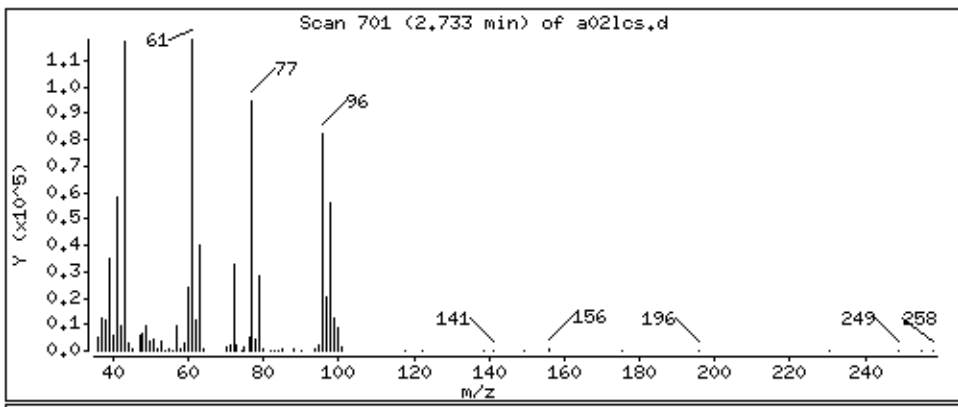
Client ID: 1713191,140393:5 Instrument: 50mv2a.i

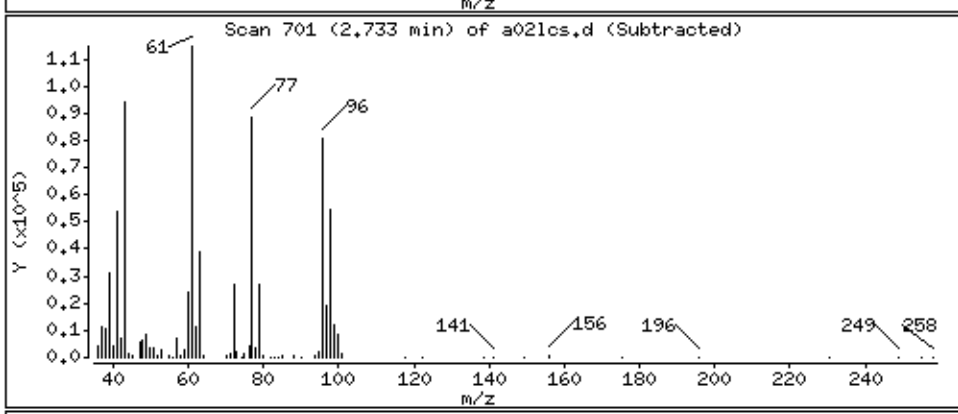
Sample Info: 1713191,140393:5

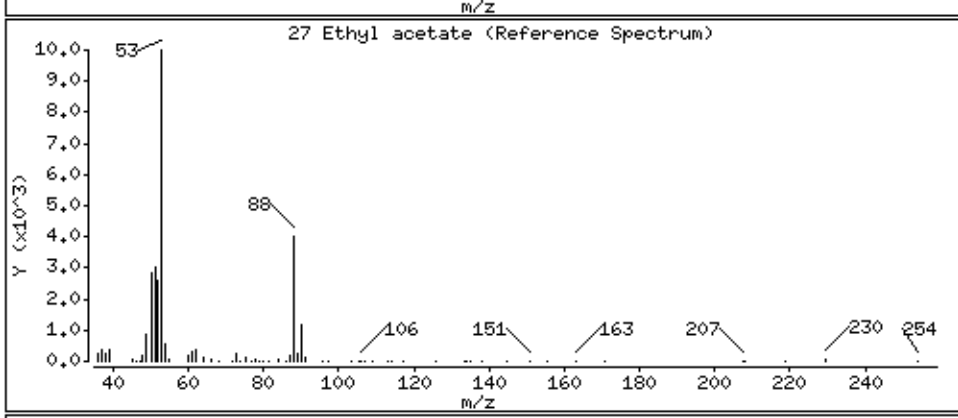
Purge Volume: 5.0 Operator: dae

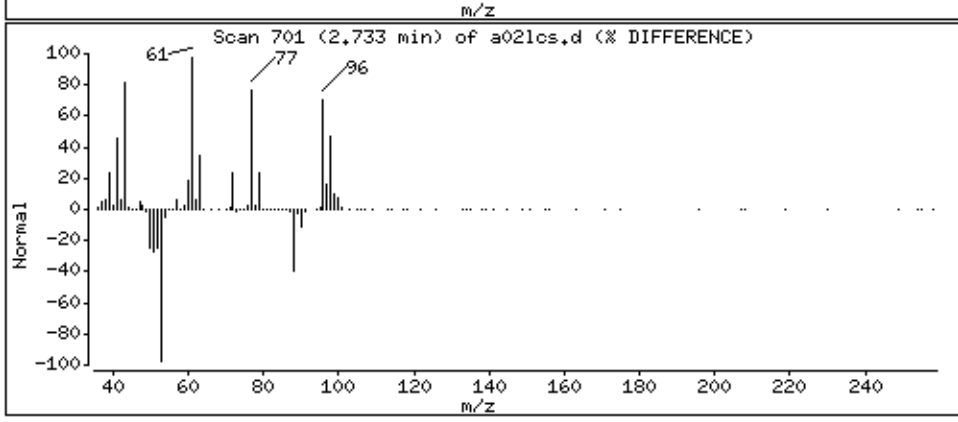
Column phase: DB-624 Column diameter: 0.18

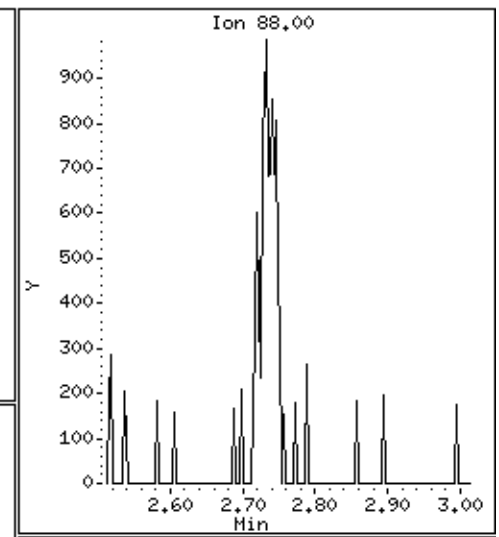
27 Ethyl acetate Concentration: 9.14 ppb

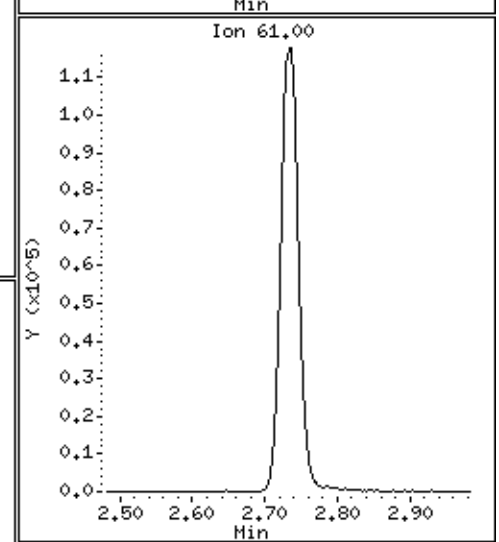


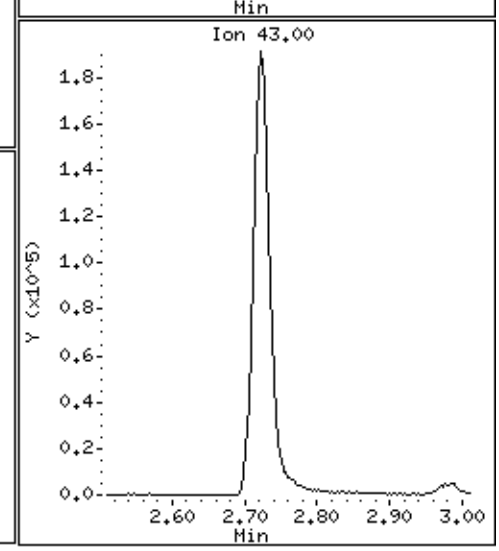












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

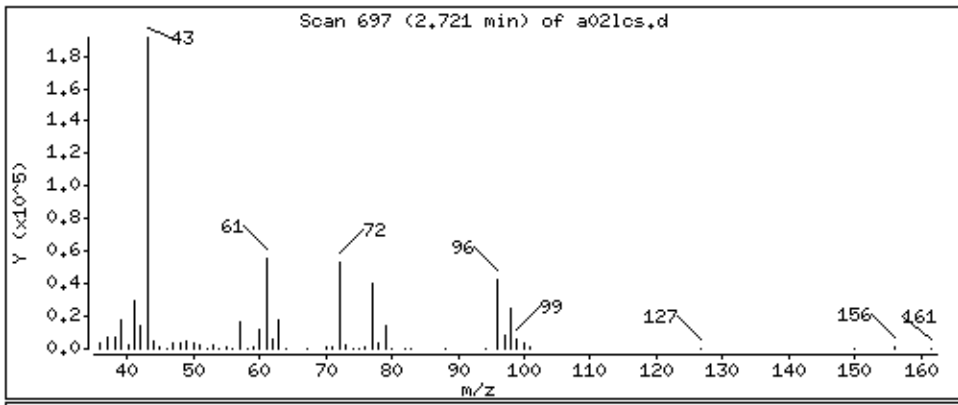
Operator: dae

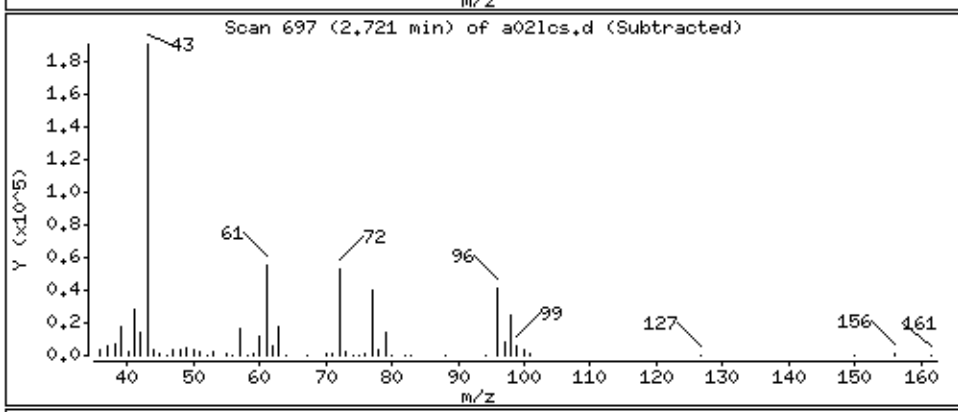
Column phase: DB-624

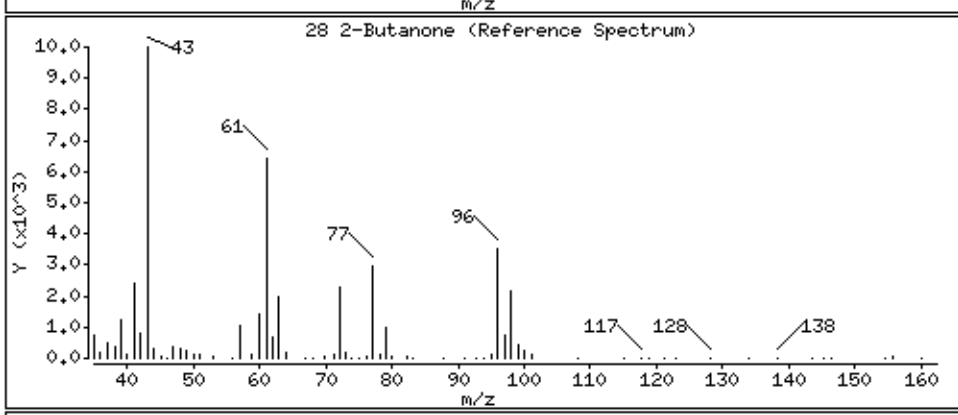
Column diameter: 0.18

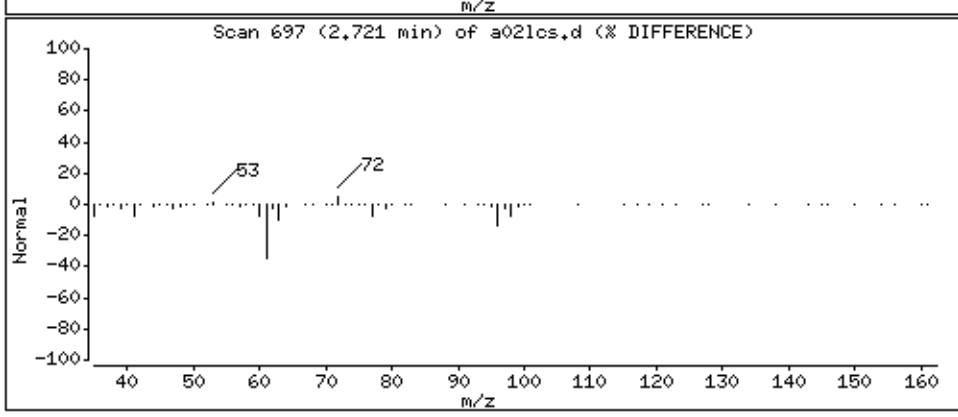
28 2-Butanone

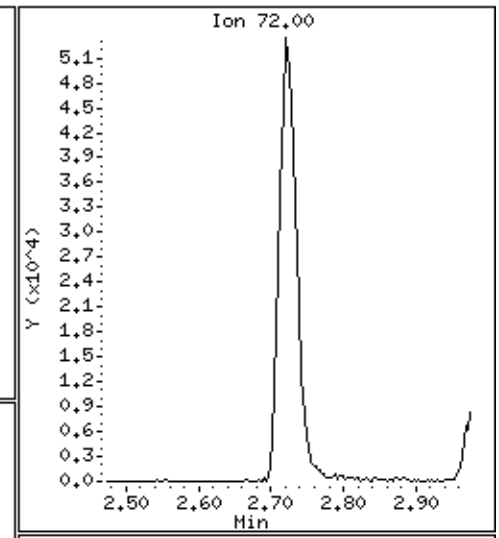
Concentration: 213 ppb

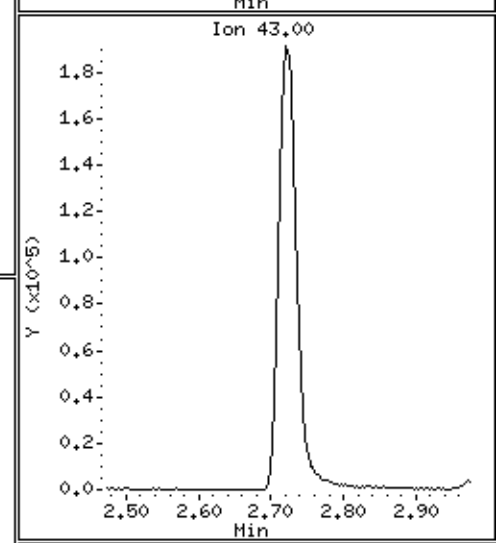


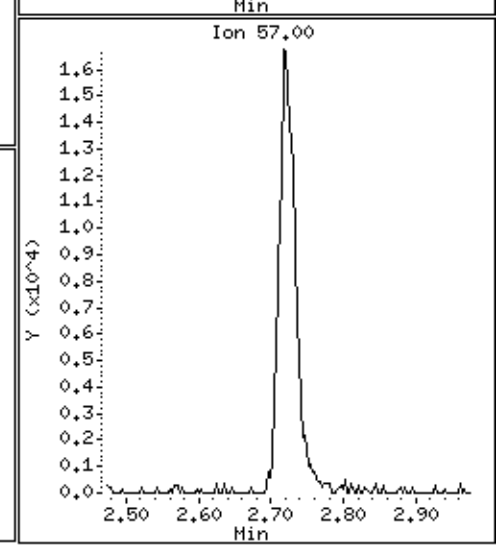












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

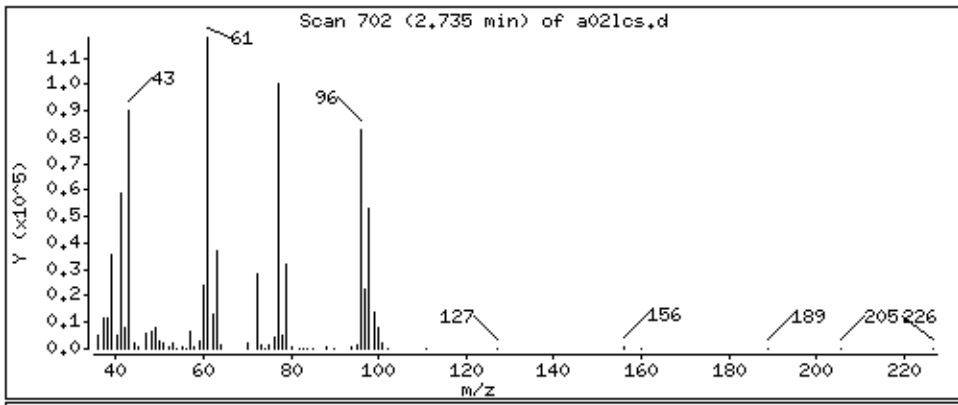
Operator: dae

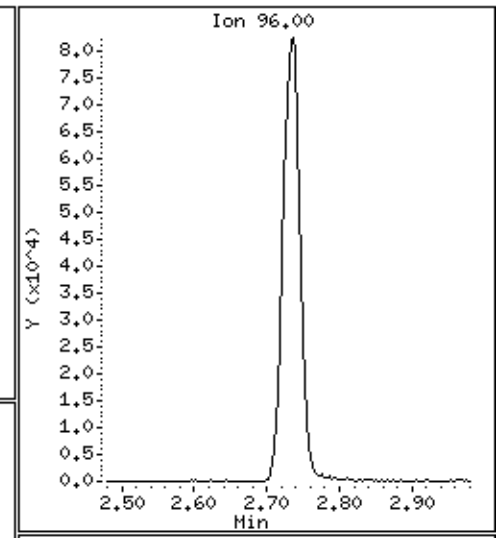
Column phase: DB-624

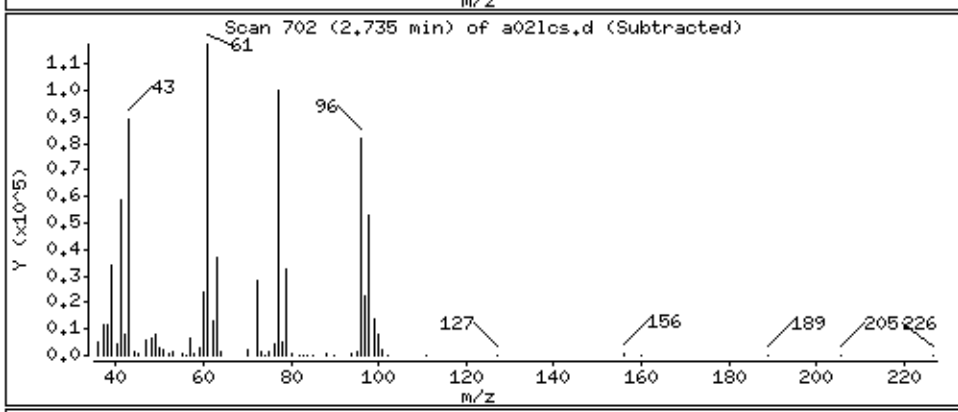
Column diameter: 0.18

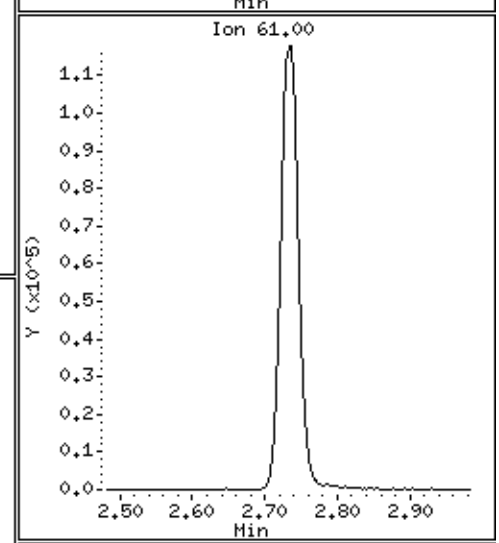
29 1,2-Dichloroethene (cis)

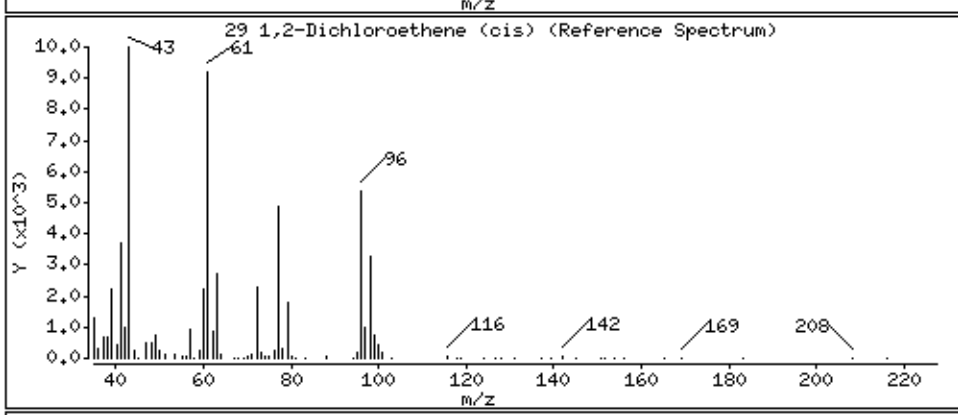
Concentration: 45.5 ppb

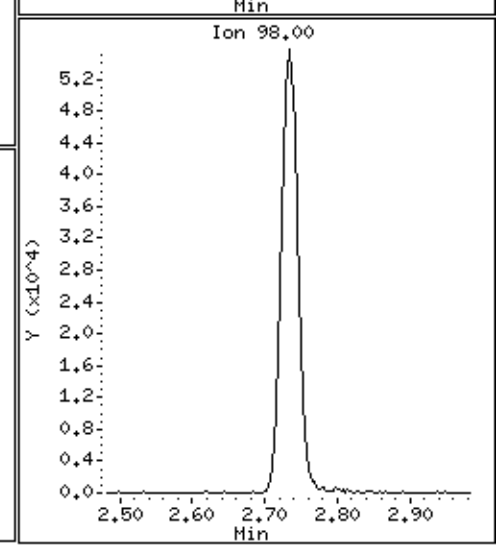


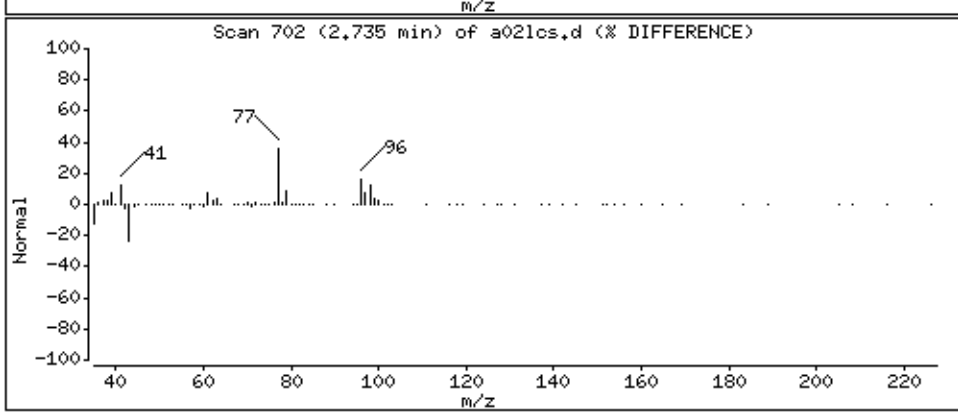












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

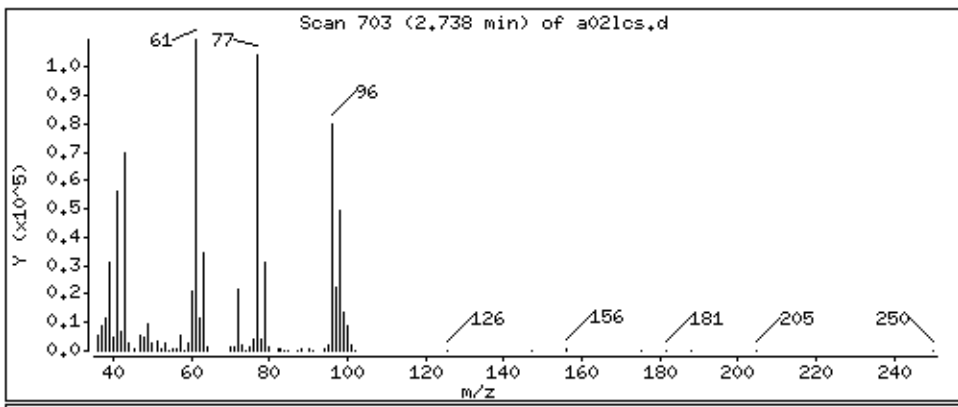
Operator: dae

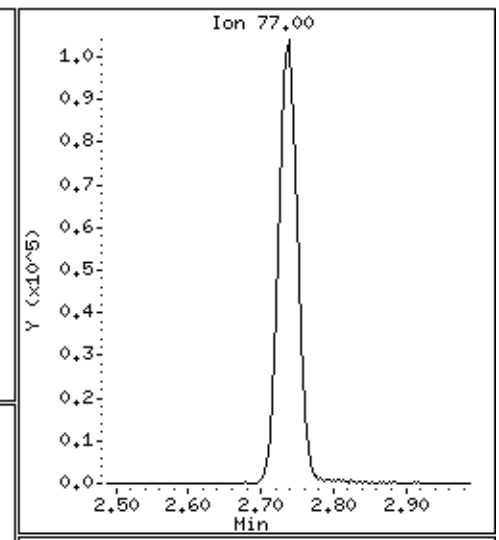
Column phase: DB-624

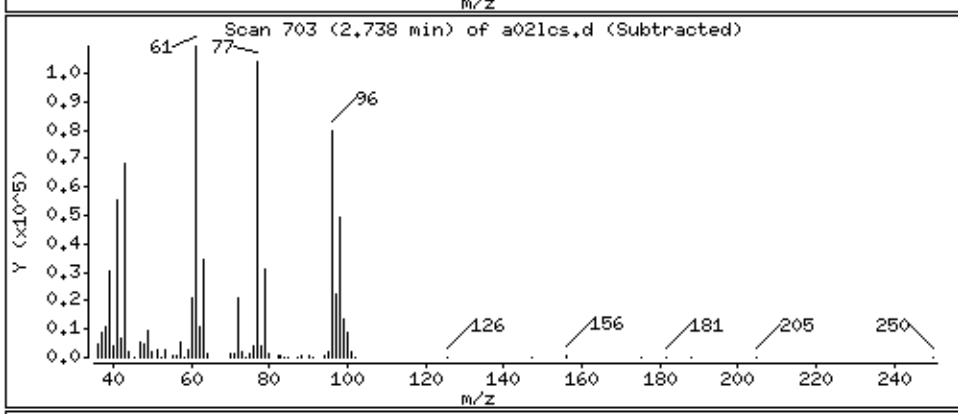
Column diameter: 0.18

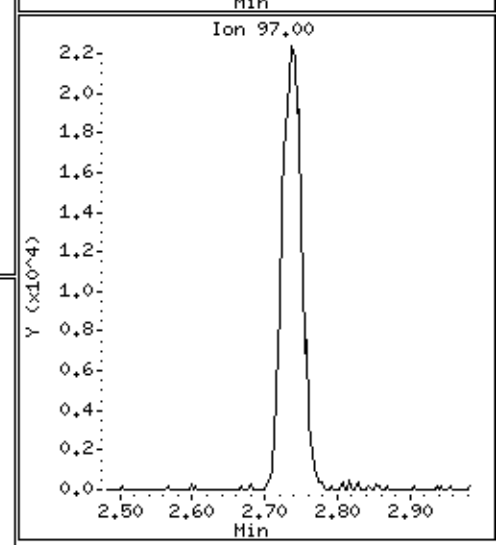
30 2,2-Dichloropropane

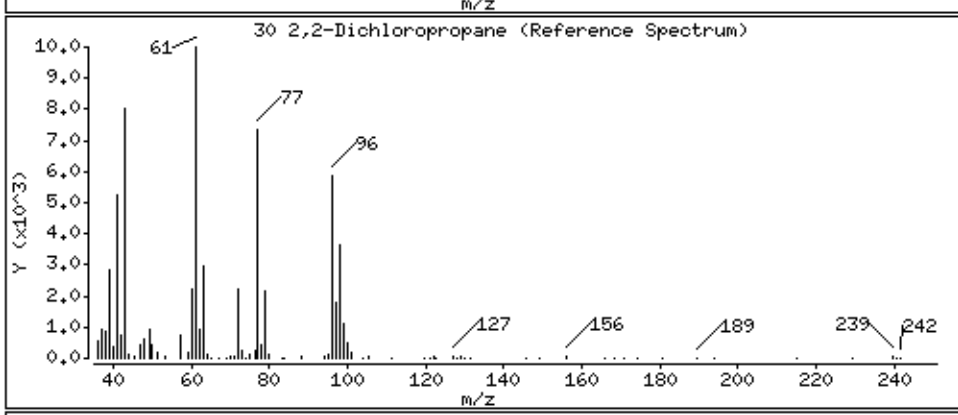
Concentration: 44.9 ppb

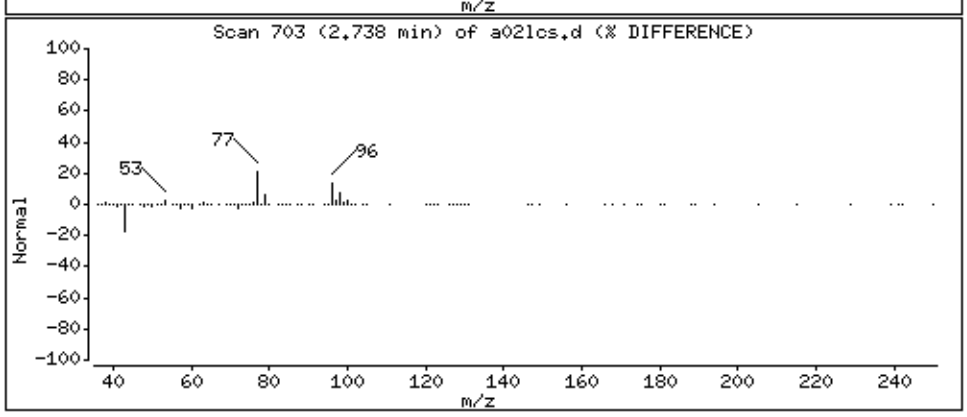












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

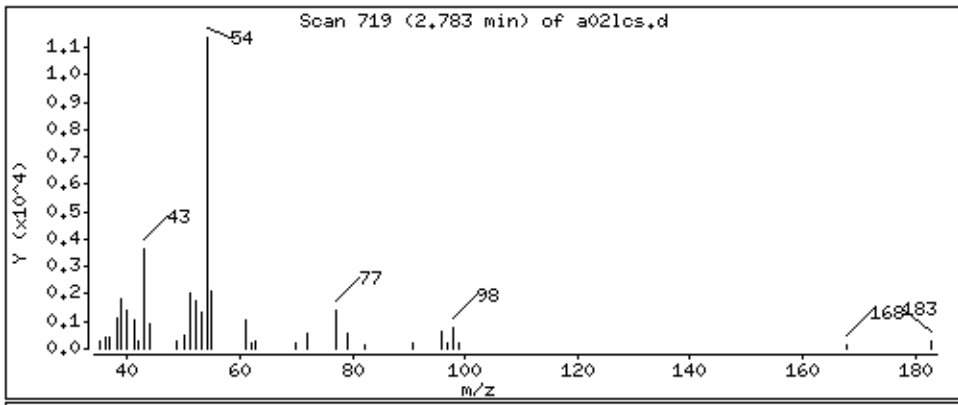
Operator: dae

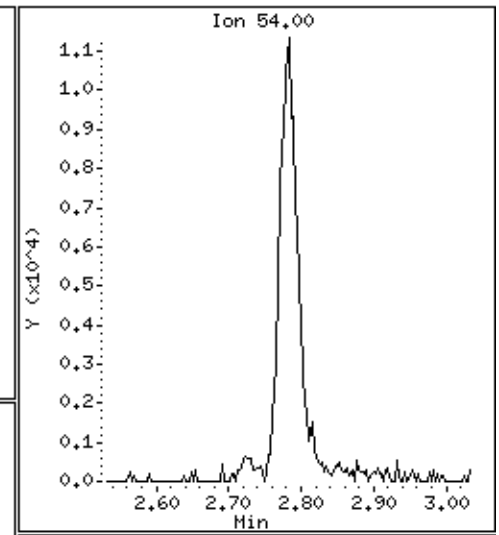
Column phase: DB-624

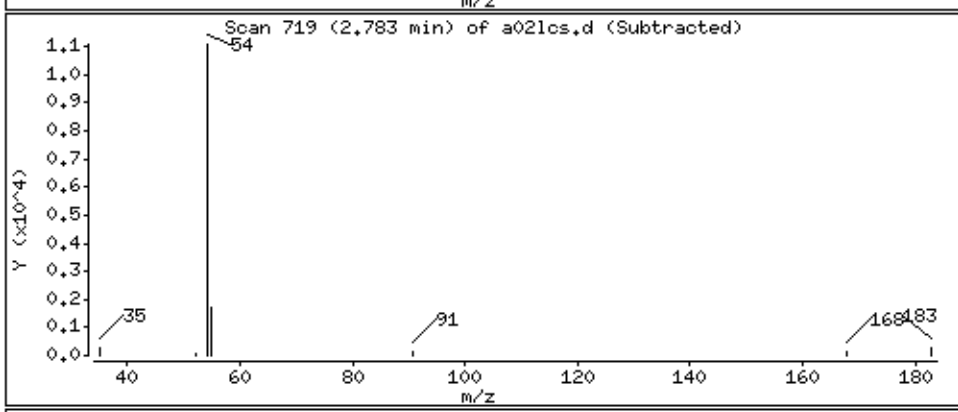
Column diameter: 0.18

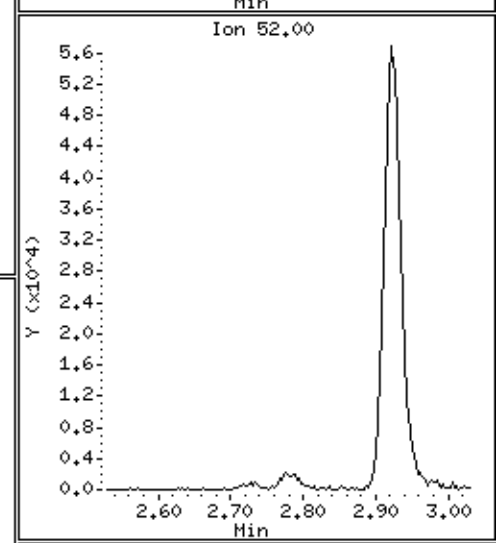
31 Propionitrile

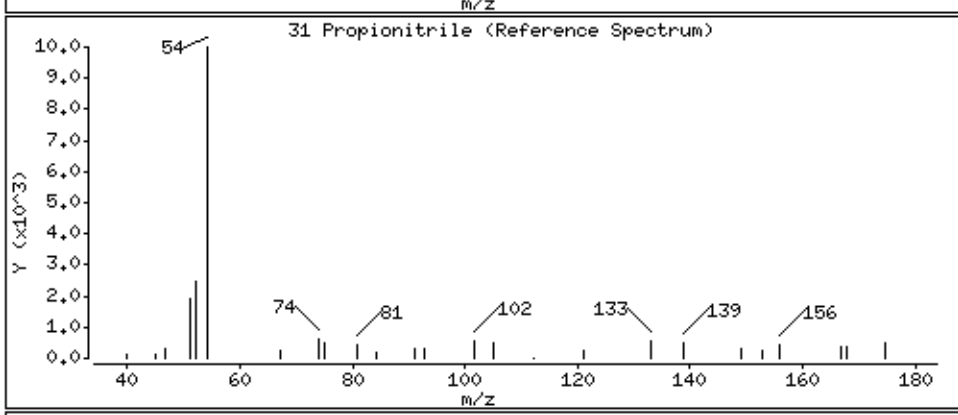
Concentration: 43.0 ppb

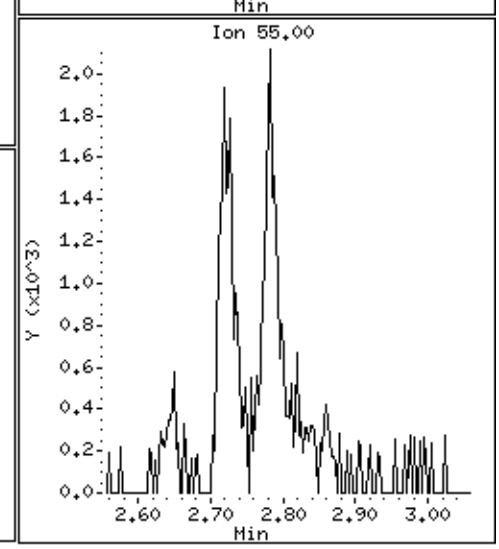


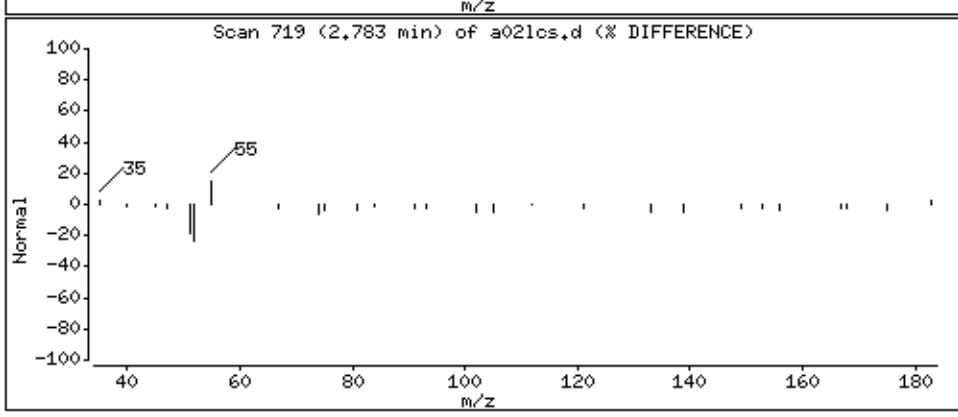












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

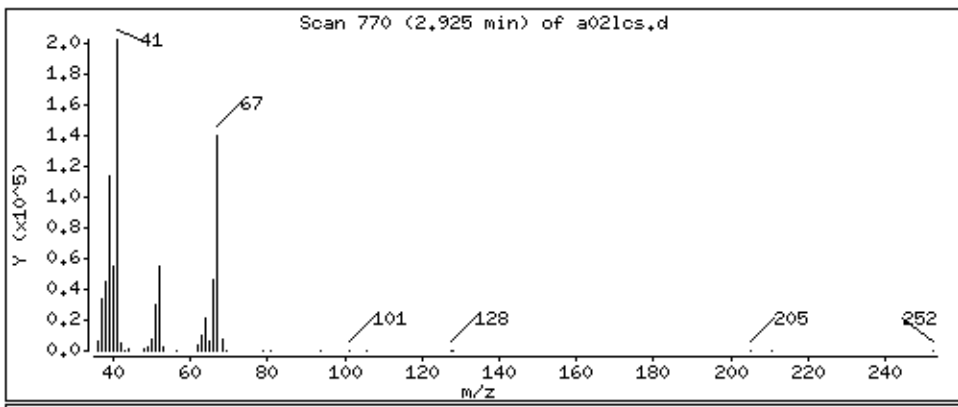
Operator: dae

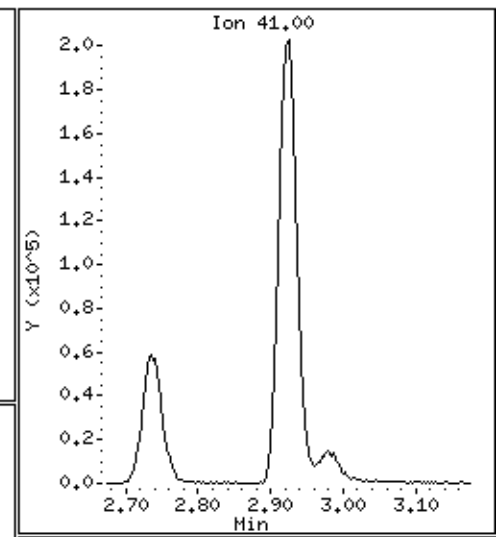
Column phase: DB-624

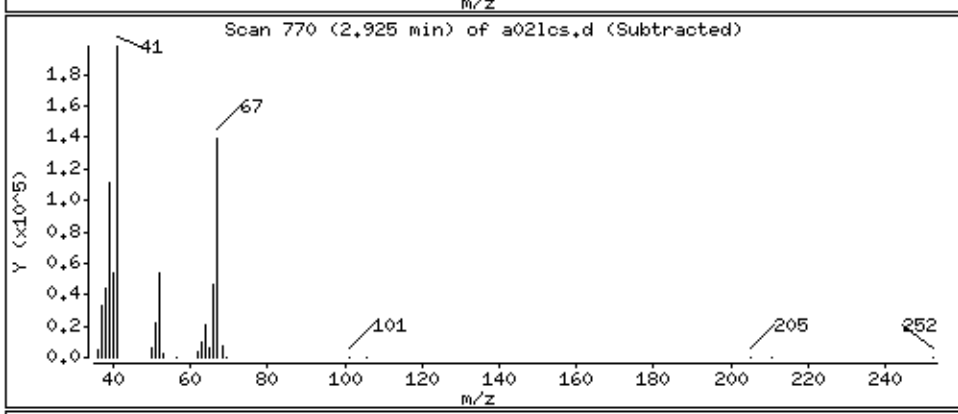
Column diameter: 0.18

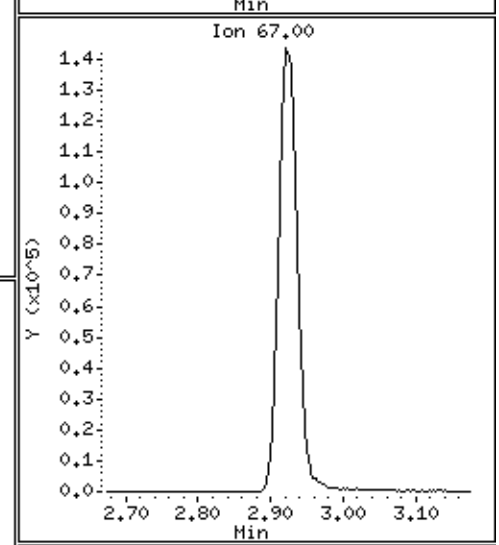
32 Methacrylonitrile

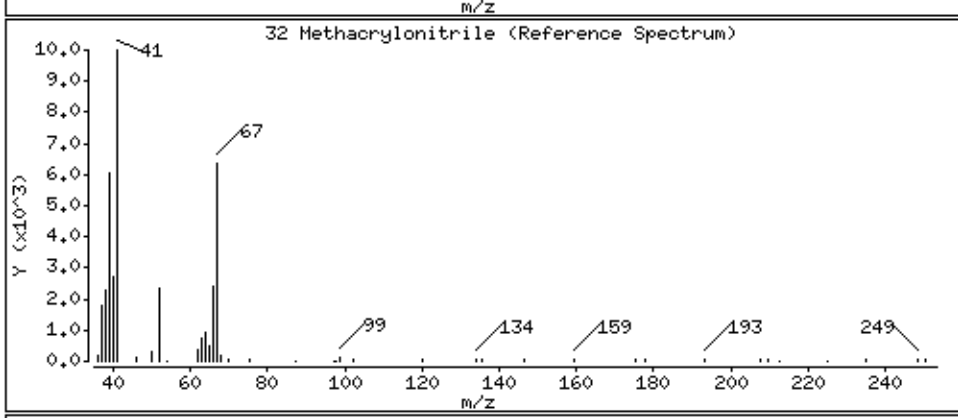
Concentration: 185 ppb

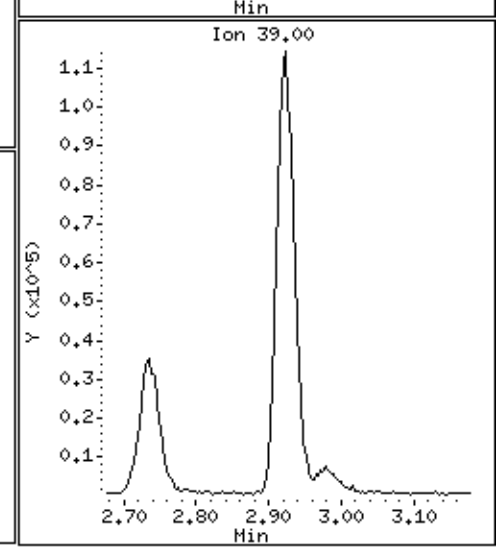


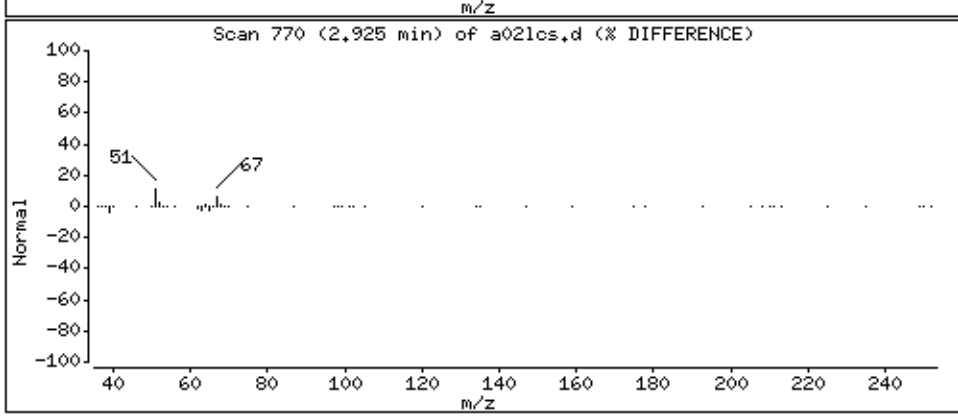












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

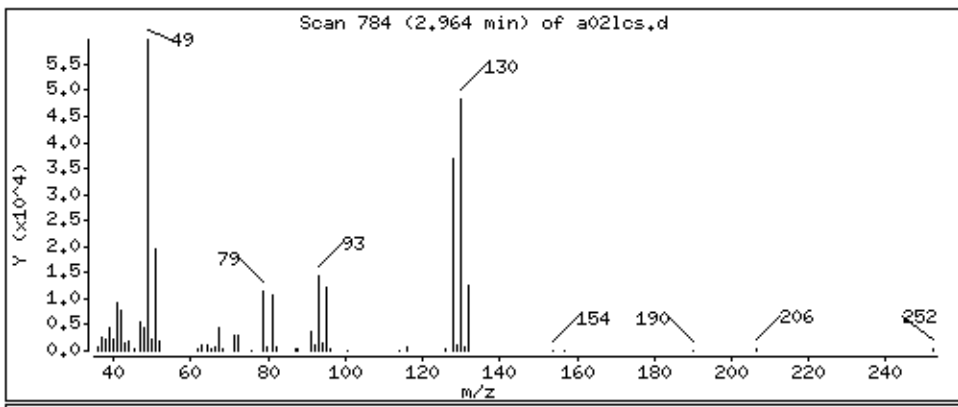
Operator: dae

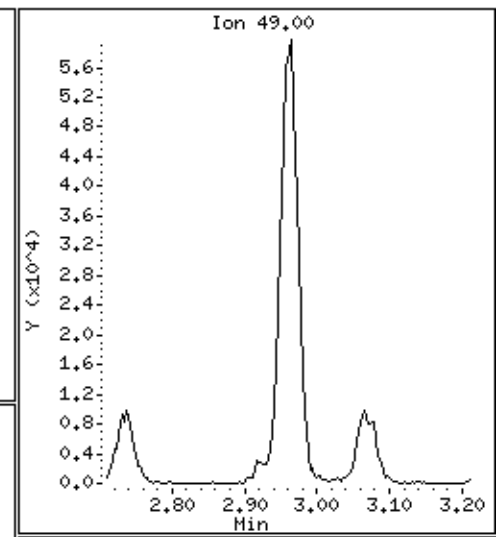
Column phase: DB-624

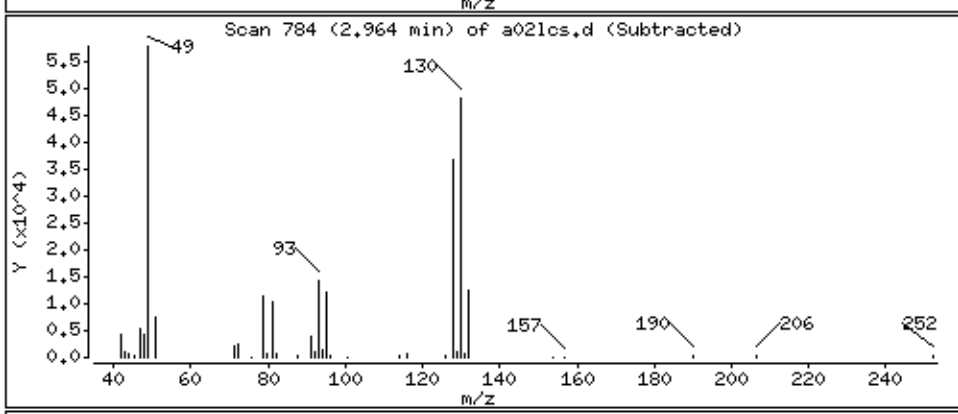
Column diameter: 0.18

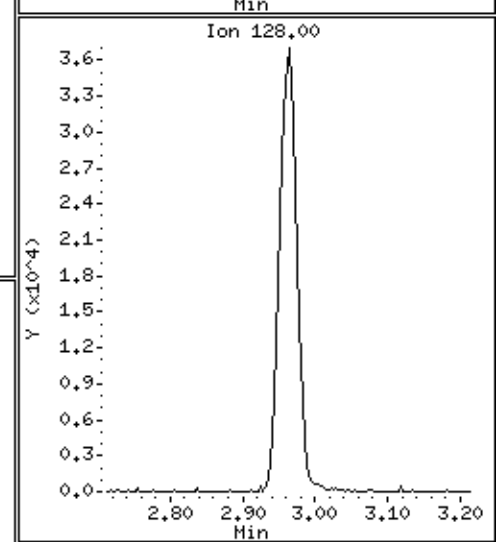
33 Bromochloromethane

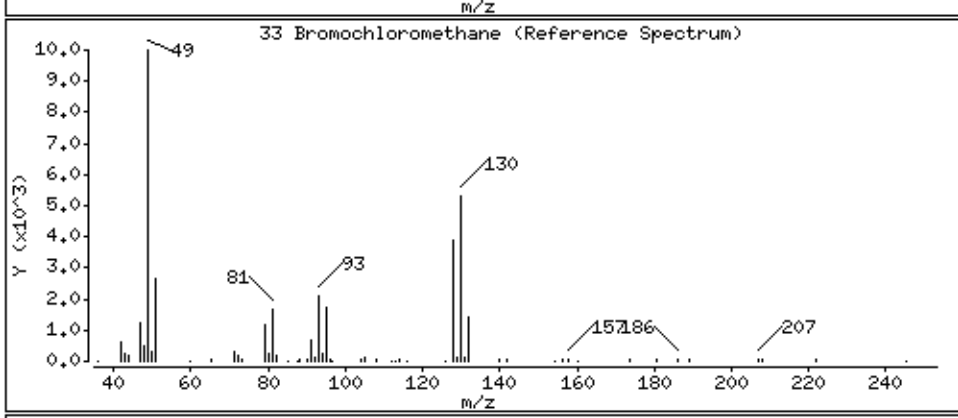
Concentration: 45.3 ppb

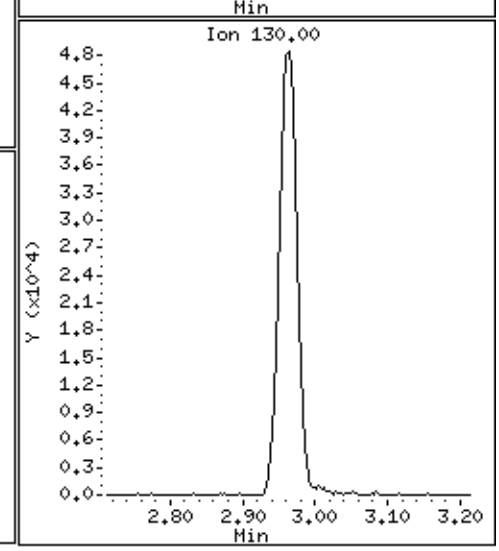


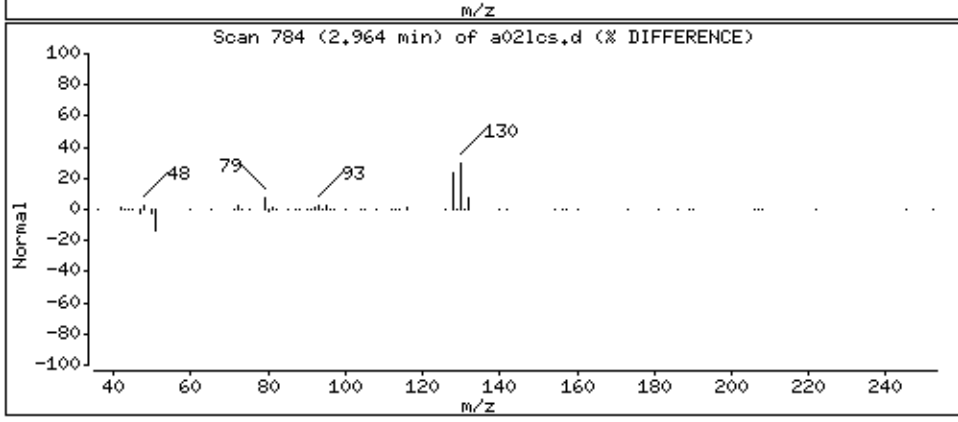












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

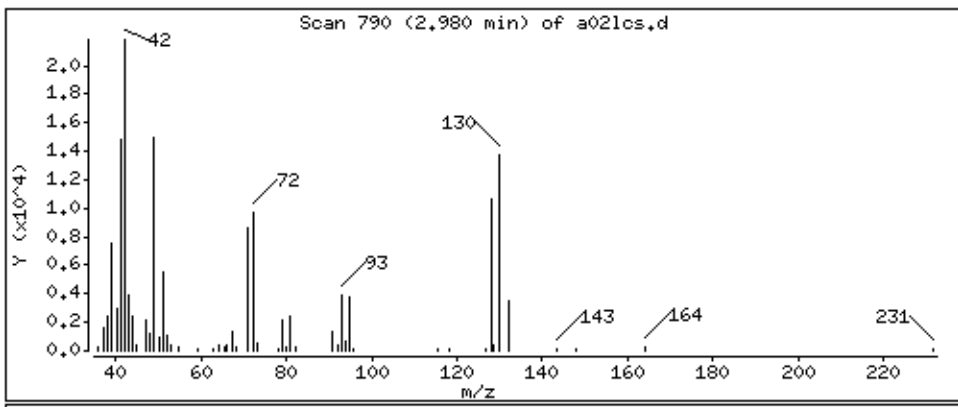
Operator: dae

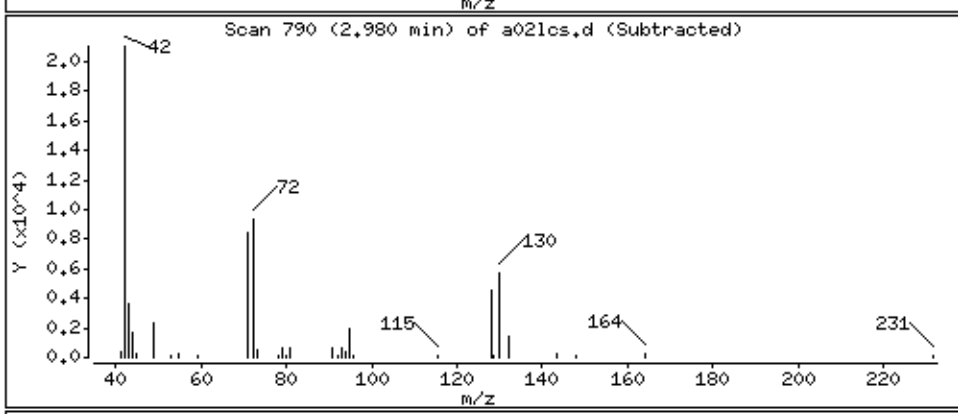
Column phase: DB-624

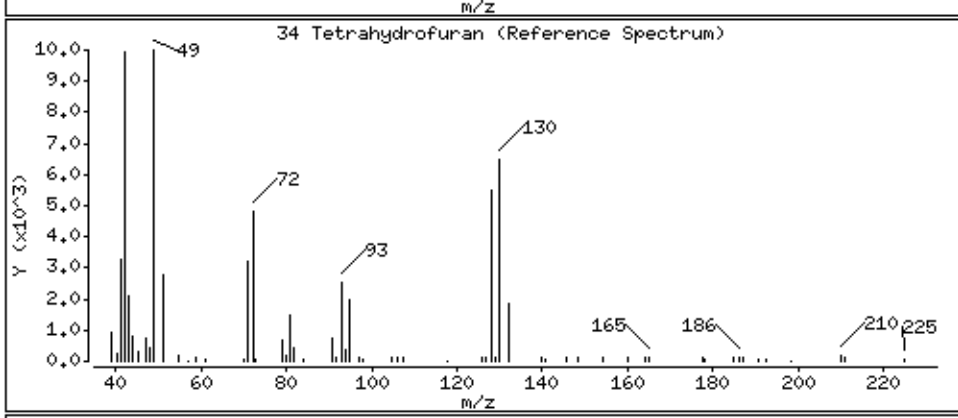
Column diameter: 0.18

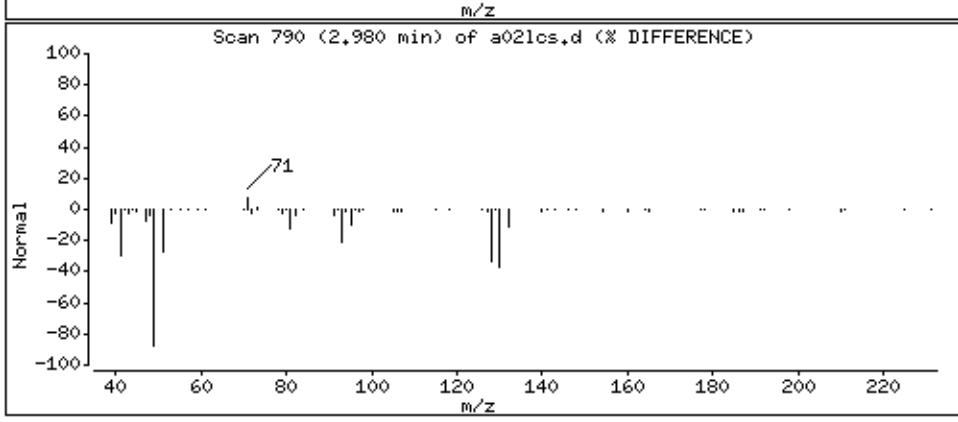
34 Tetrahydrofuran

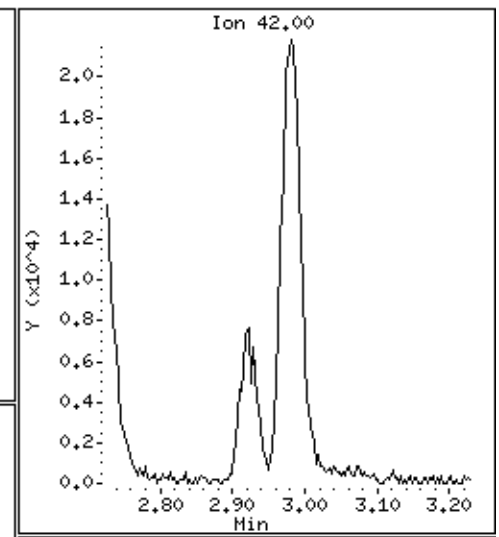
Concentration: 47.1 ppb

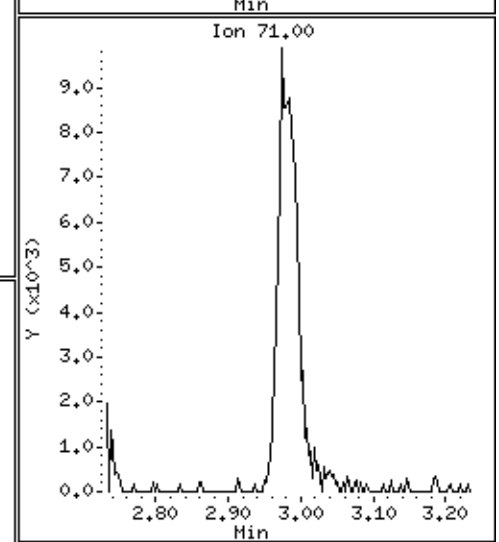


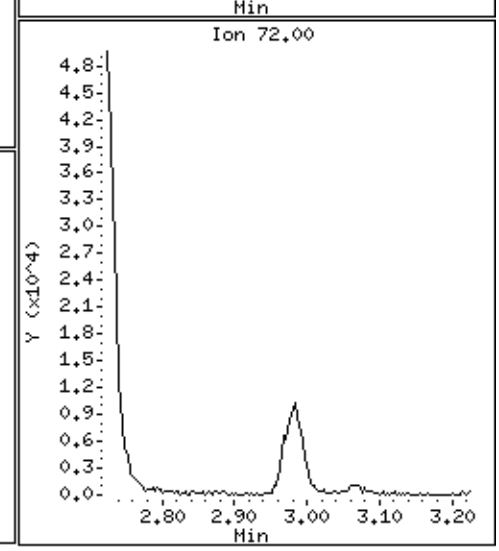












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

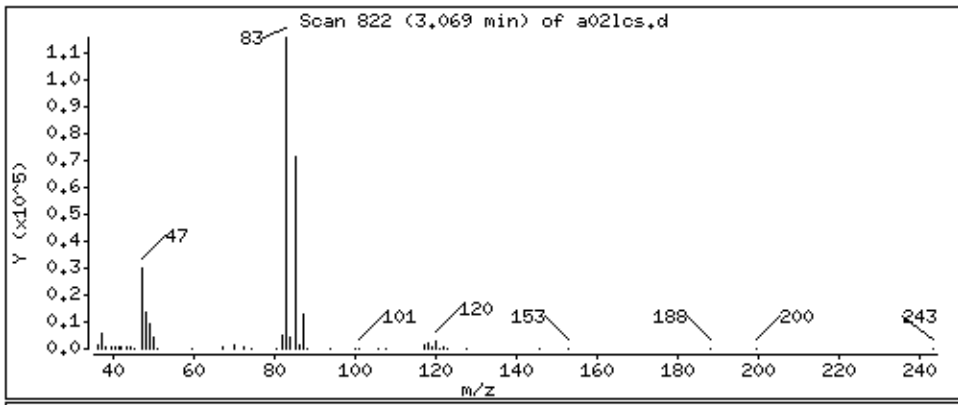
Operator: dae

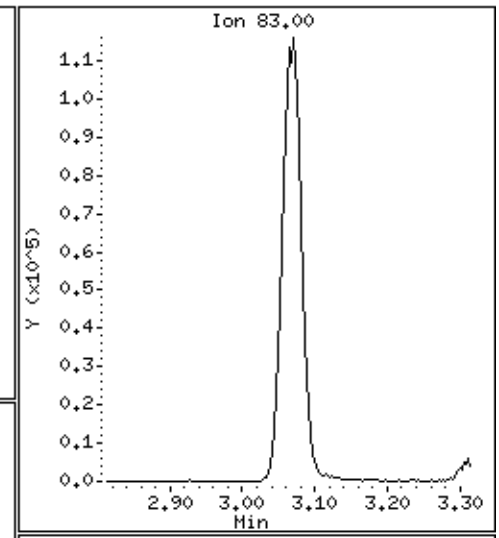
Column phase: DB-624

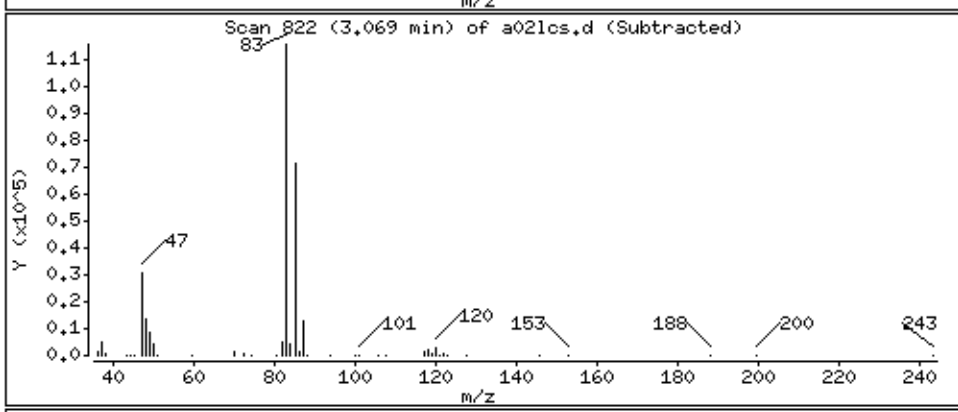
Column diameter: 0.18

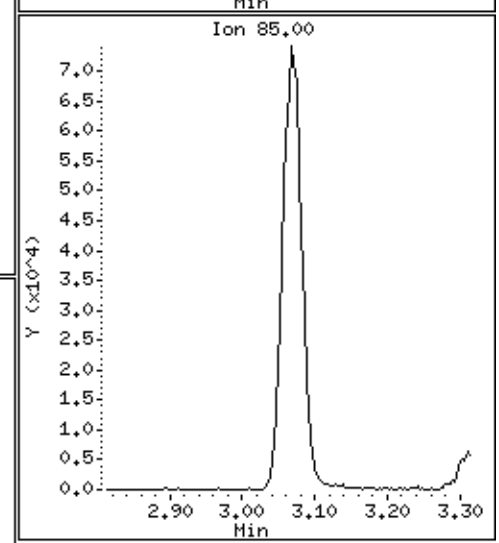
35 Chloroform

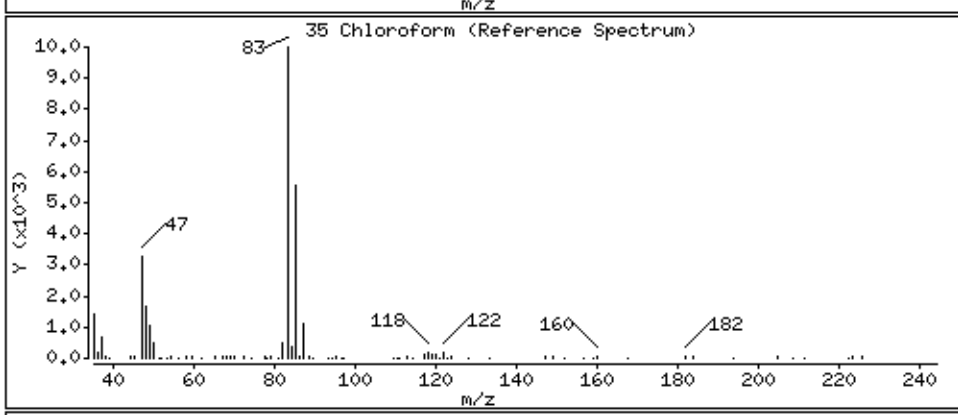
Concentration: 46.5 ppb

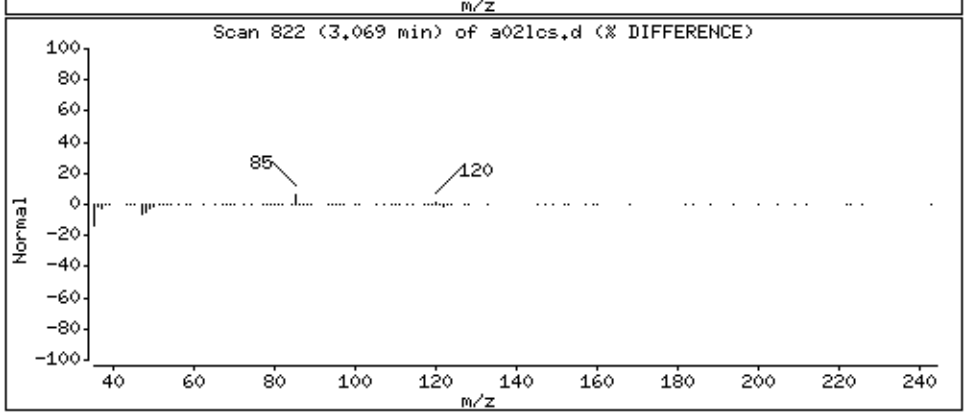












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

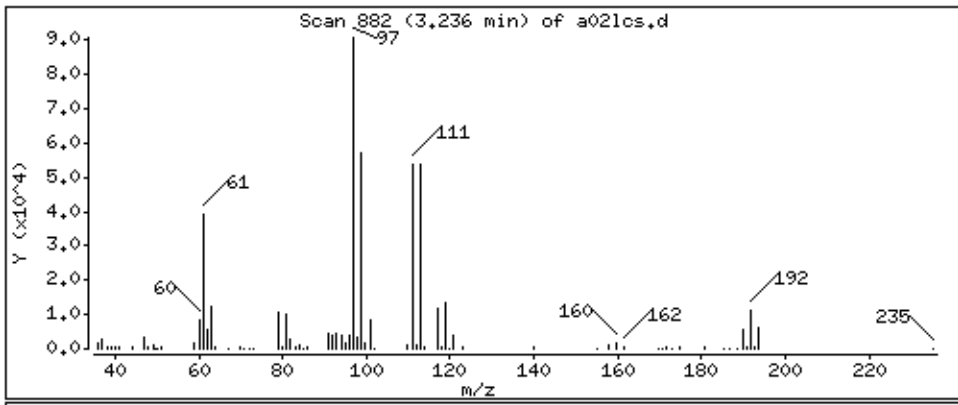
Operator: dae

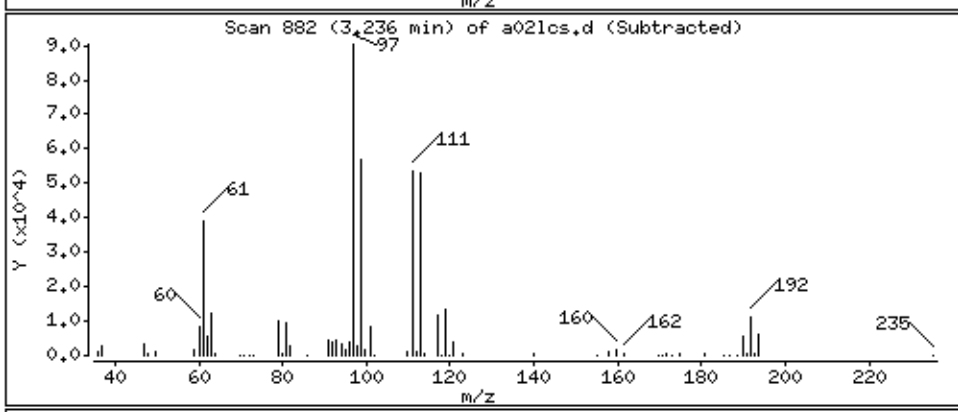
Column phase: DB-624

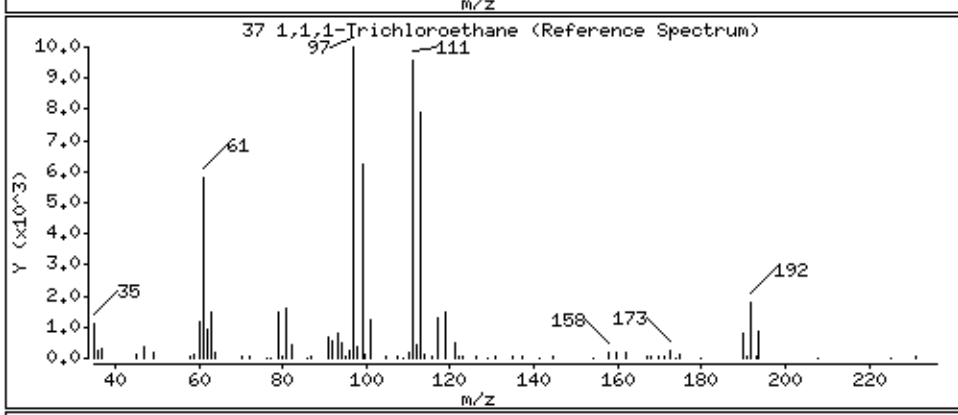
Column diameter: 0.18

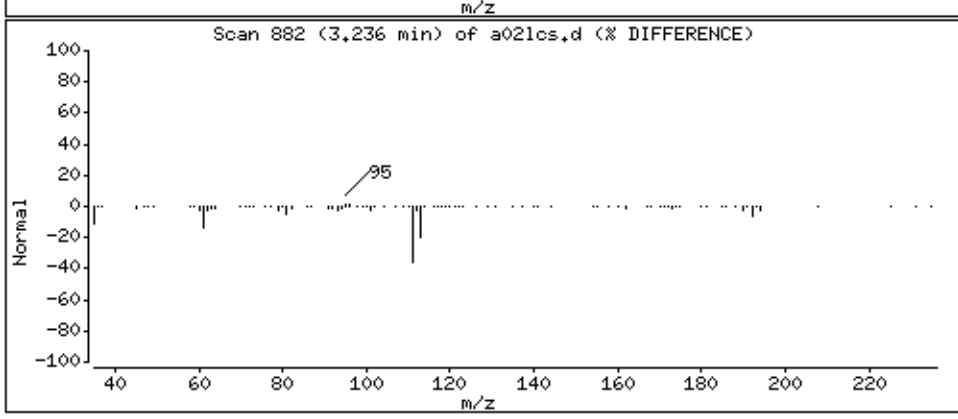
37 1,1,1-Trichloroethane

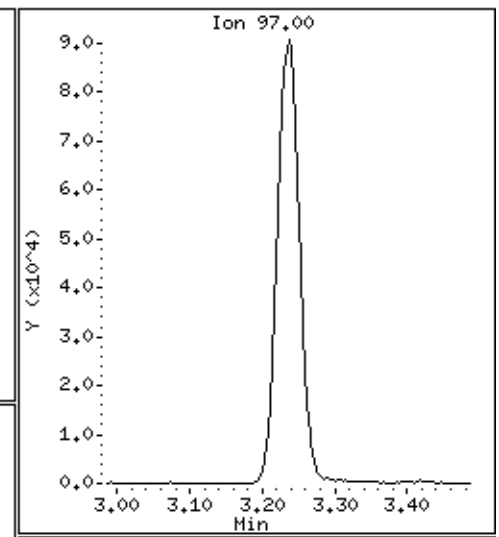
Concentration: 42.2 ppb

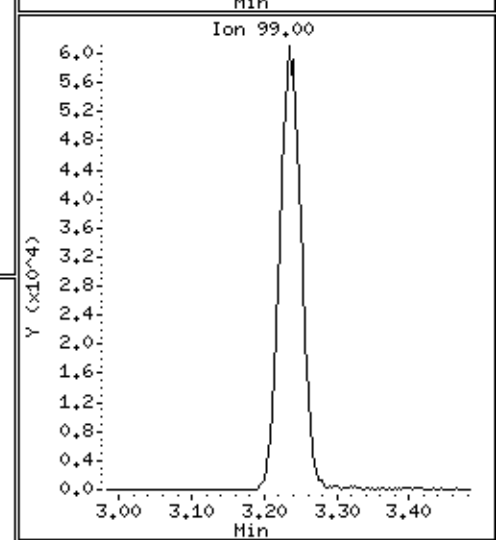


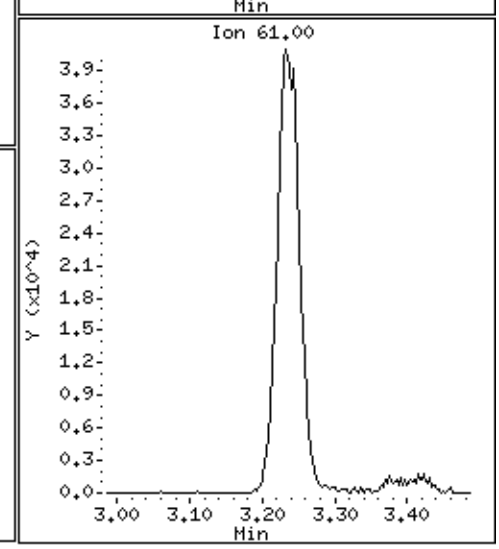












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

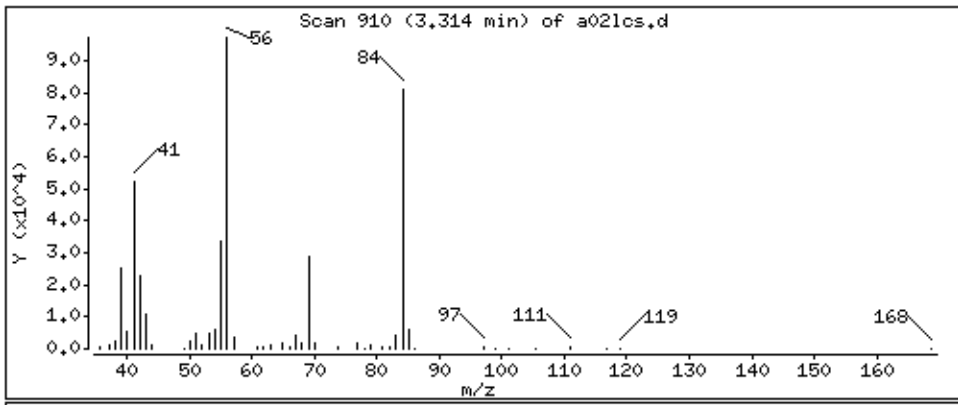
Operator: dae

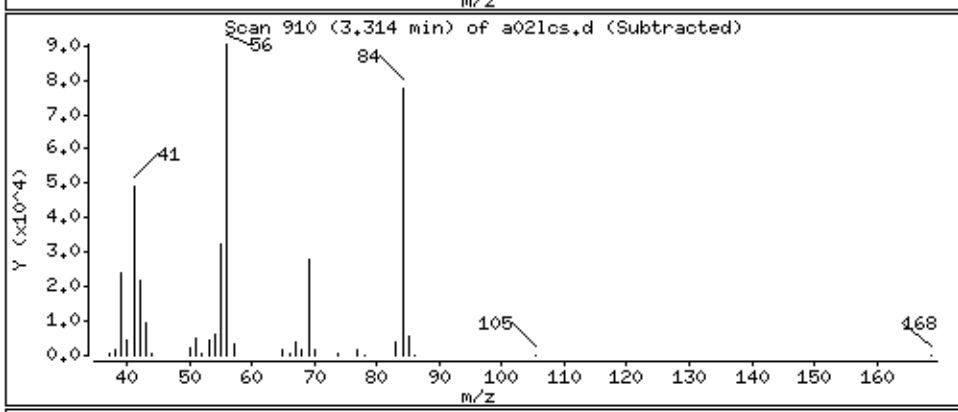
Column phase: DB-624

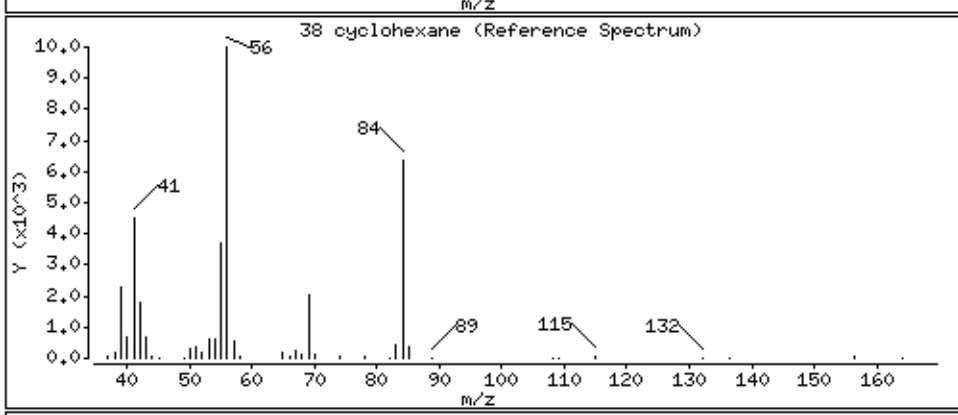
Column diameter: 0.18

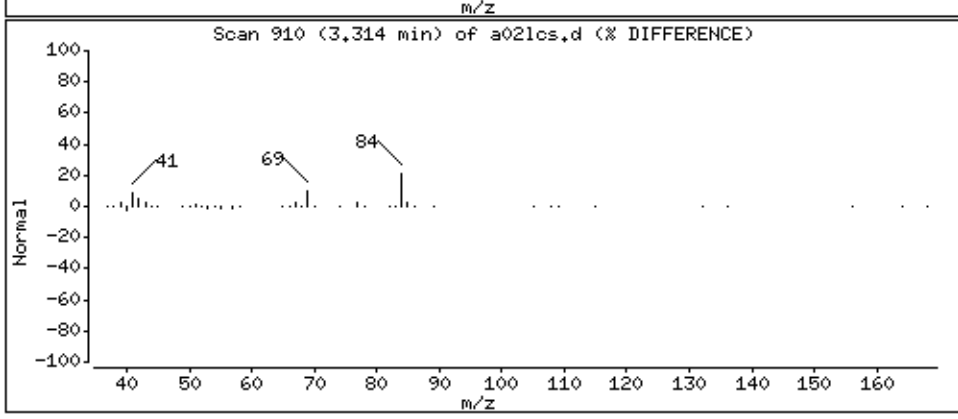
38 cyclohexane

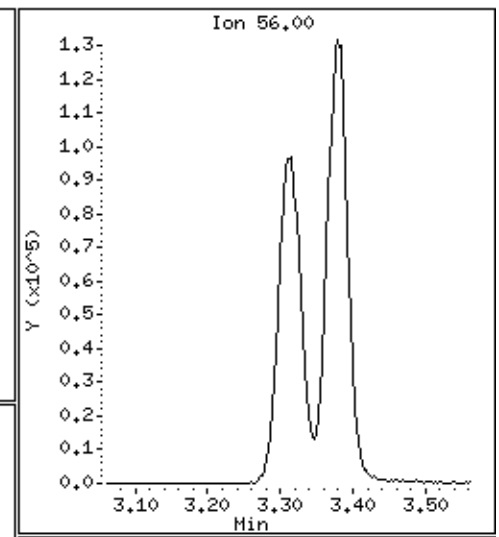
Concentration: 44.5 ppb

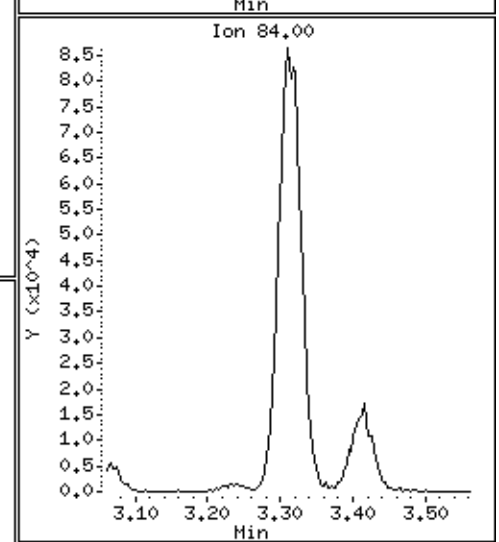


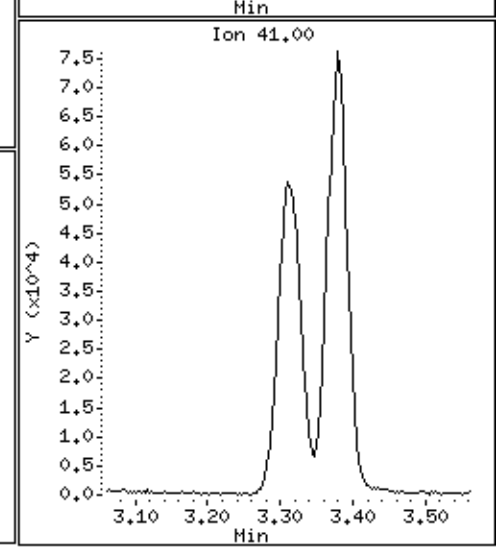












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

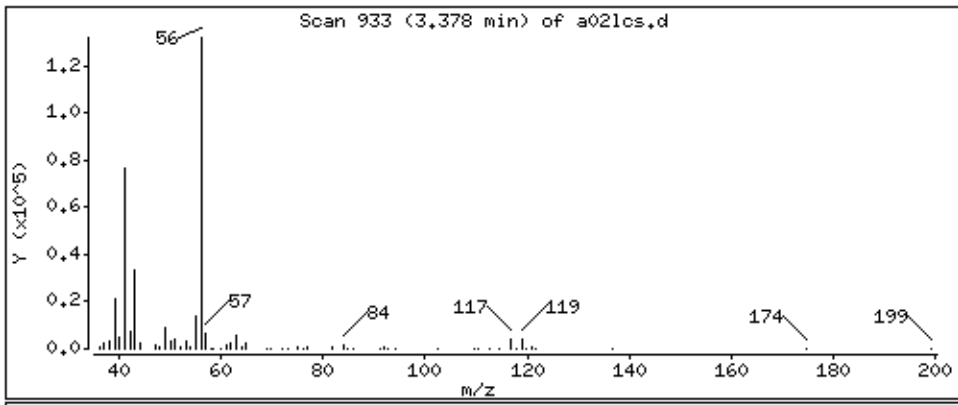
Operator: dae

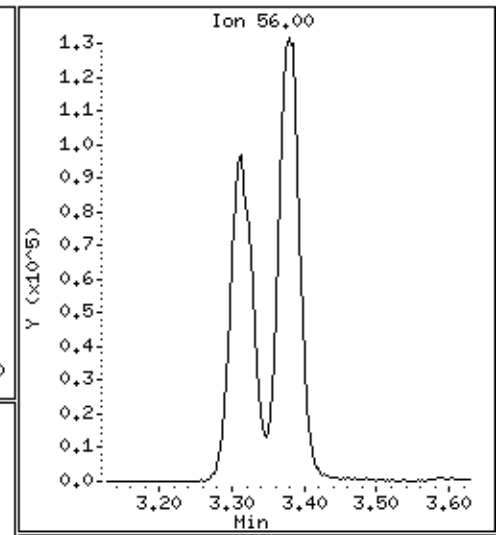
Column phase: DB-624

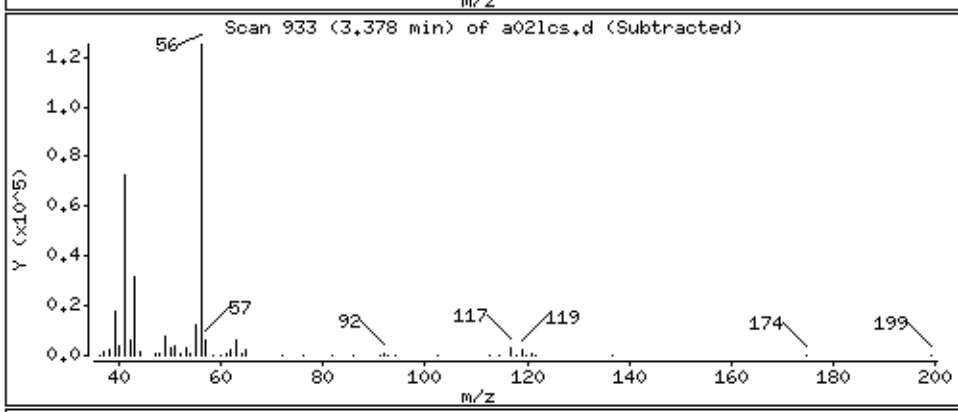
Column diameter: 0.18

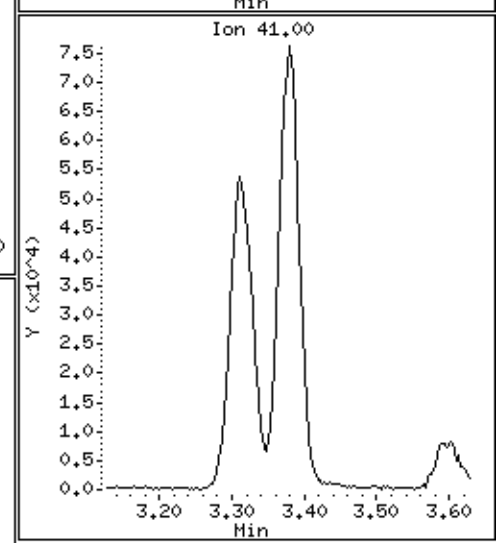
150 n-butyl chloride

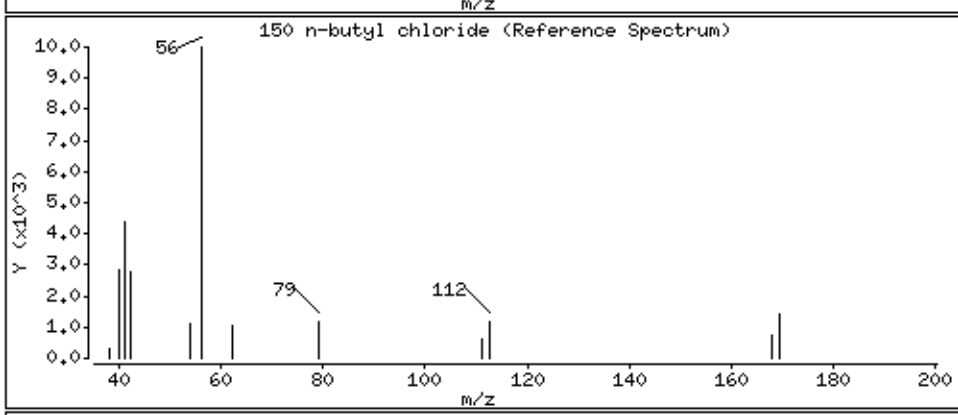
Concentration: 45.3 ppb

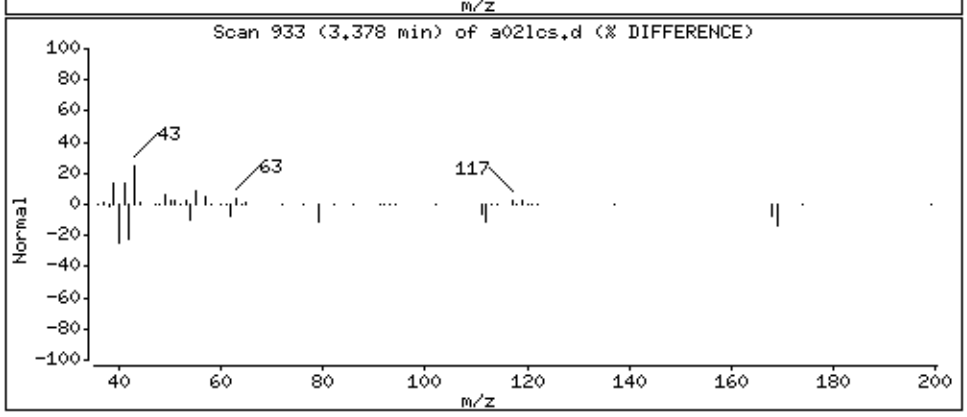












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

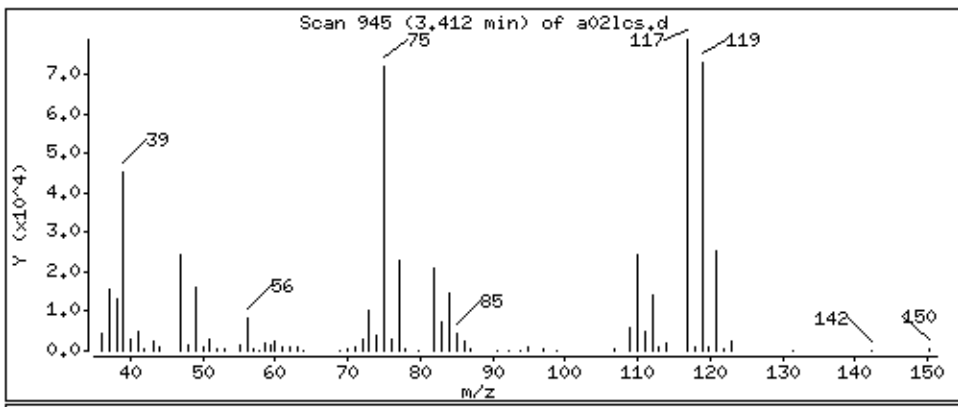
Operator: dae

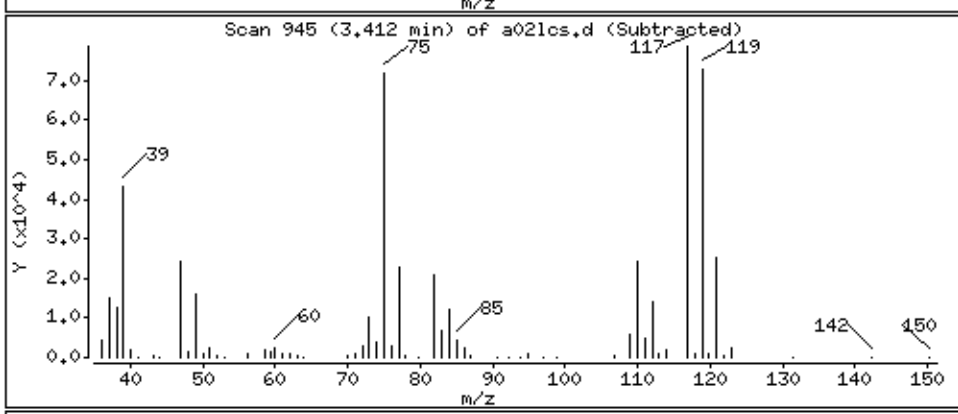
Column phase: DB-624

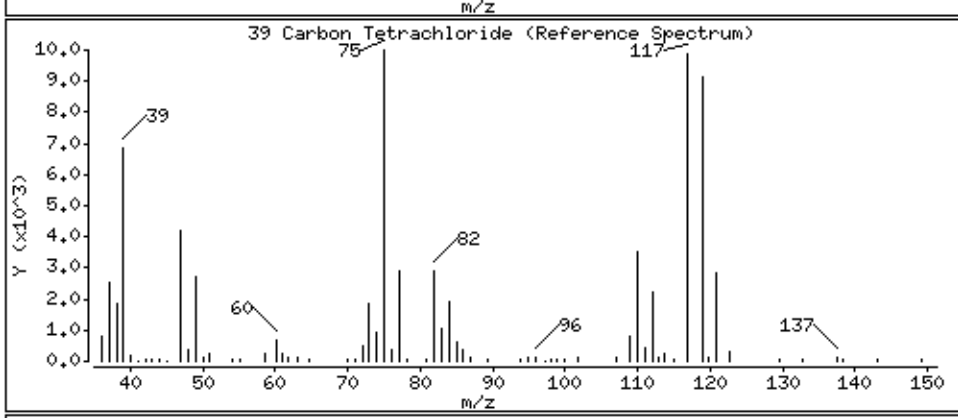
Column diameter: 0.18

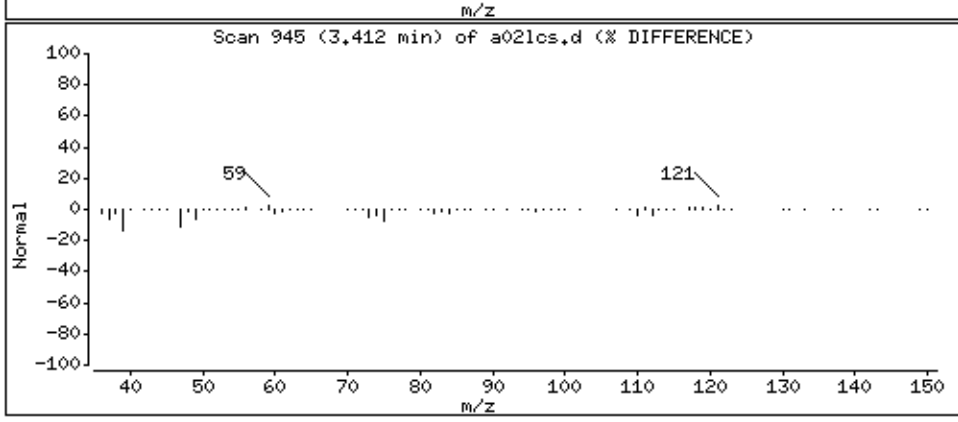
39 Carbon Tetrachloride

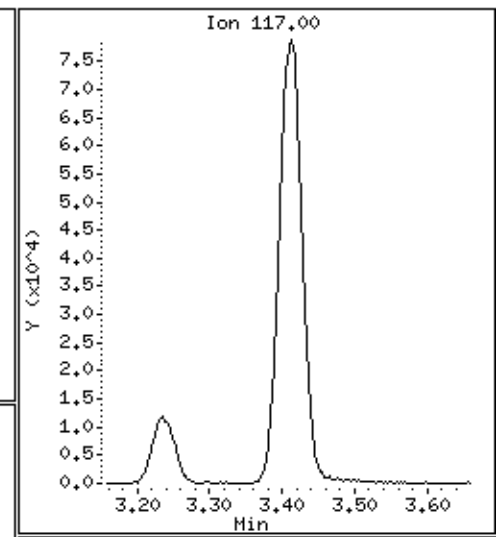
Concentration: 44.1 ppb

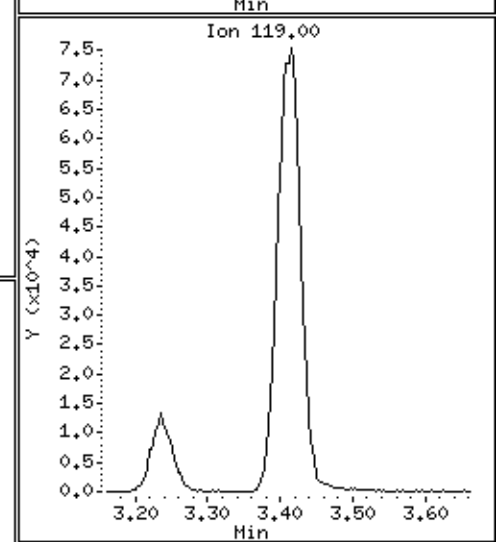


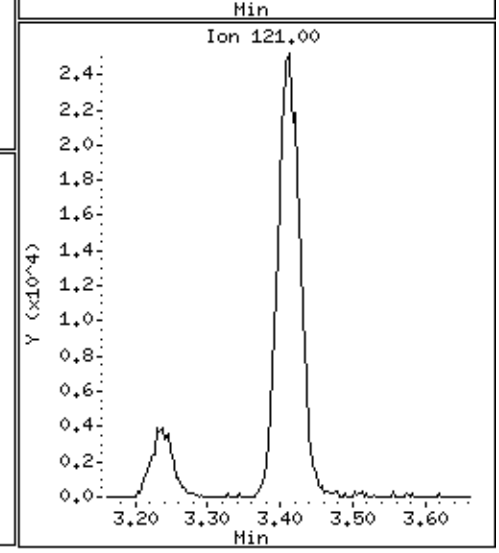












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

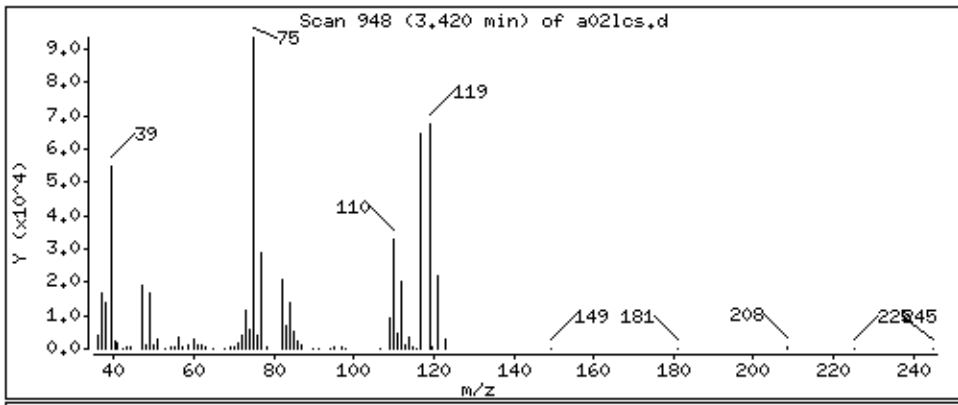
Operator: dae

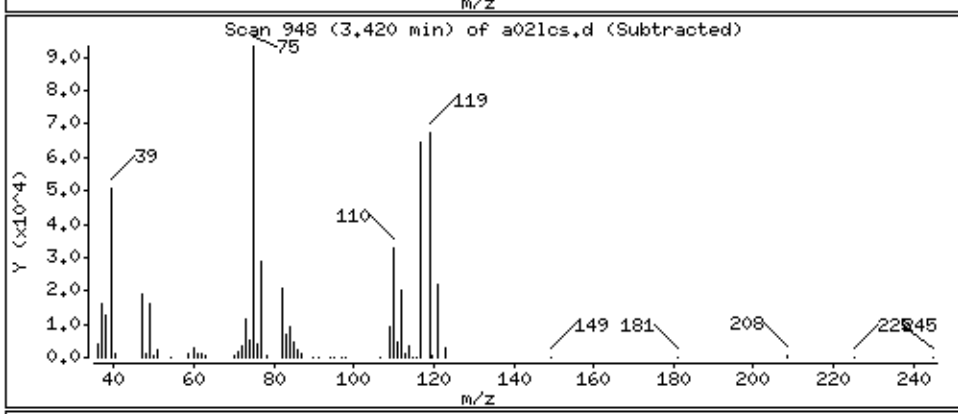
Column phase: DB-624

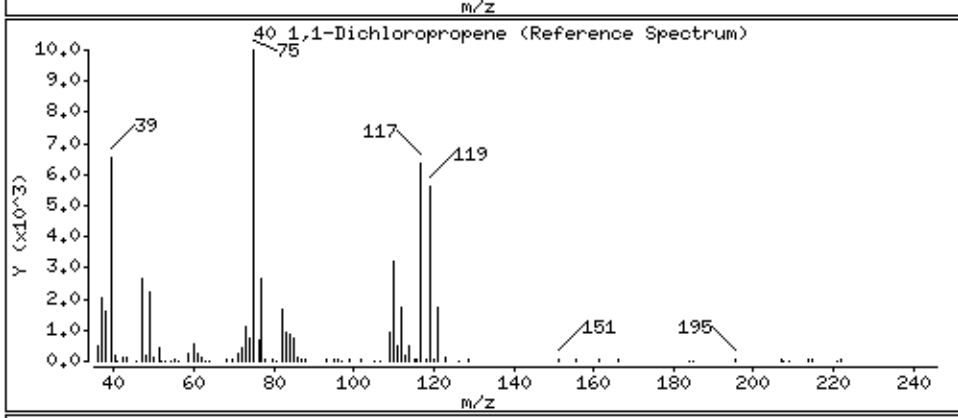
Column diameter: 0.18

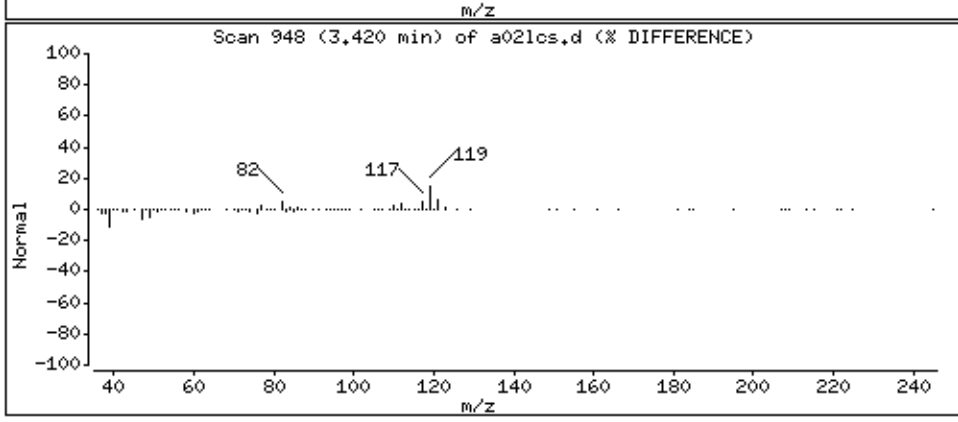
40 1,1-Dichloropropene

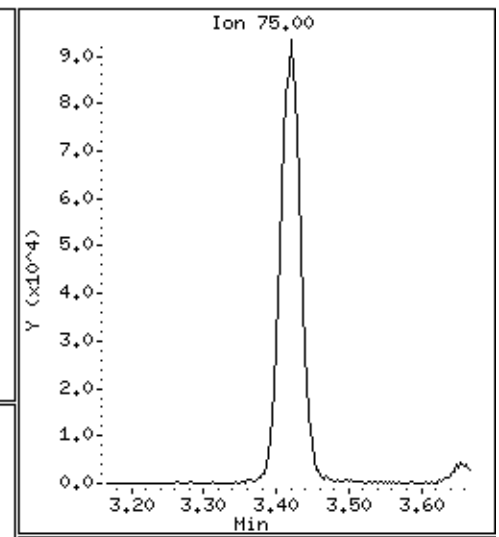
Concentration: 47.4 ppb

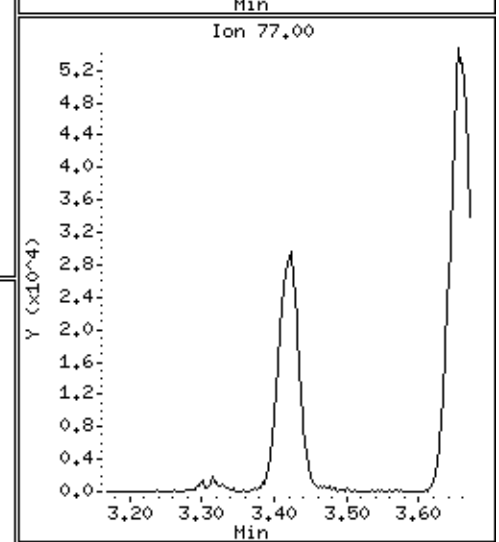


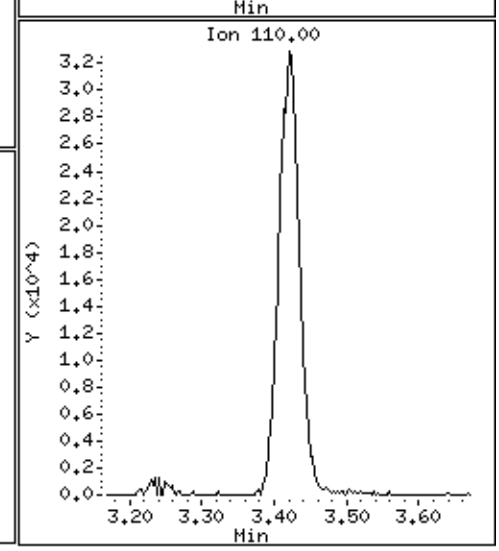












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

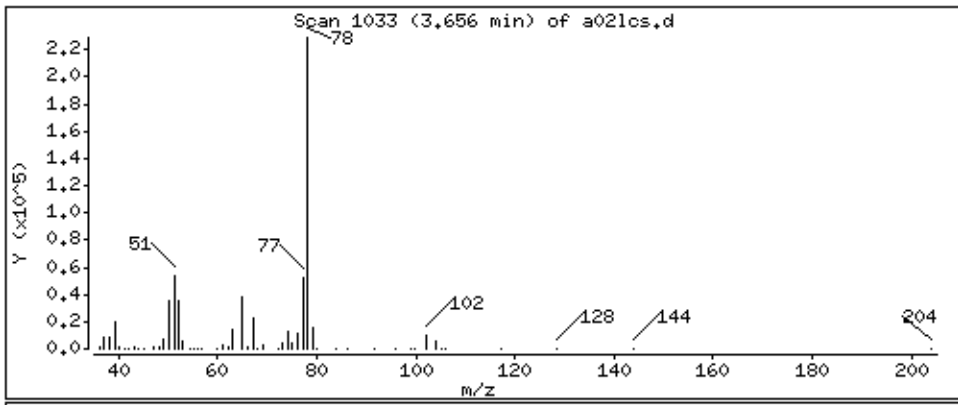
Operator: dae

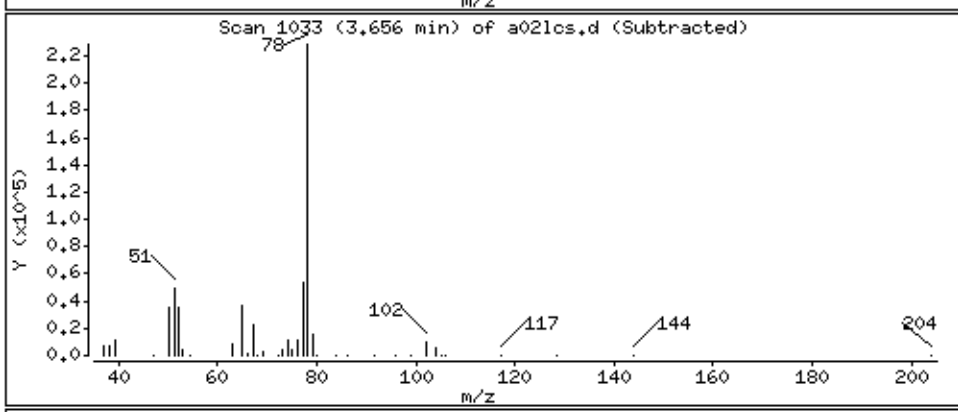
Column phase: DB-624

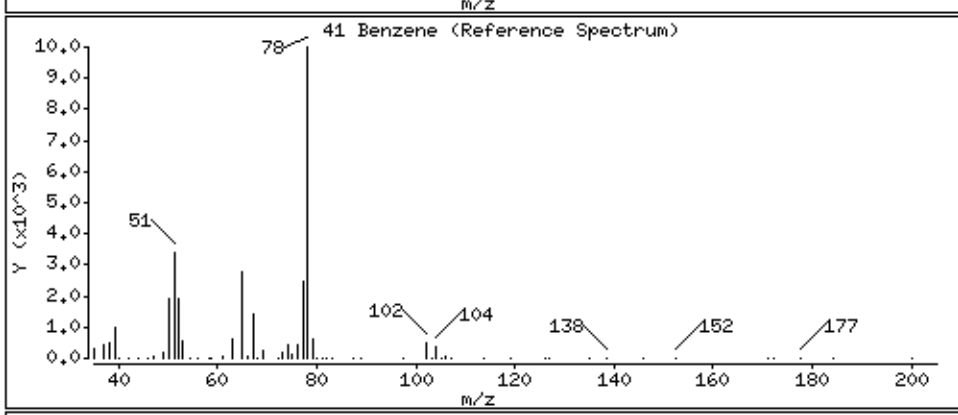
Column diameter: 0.18

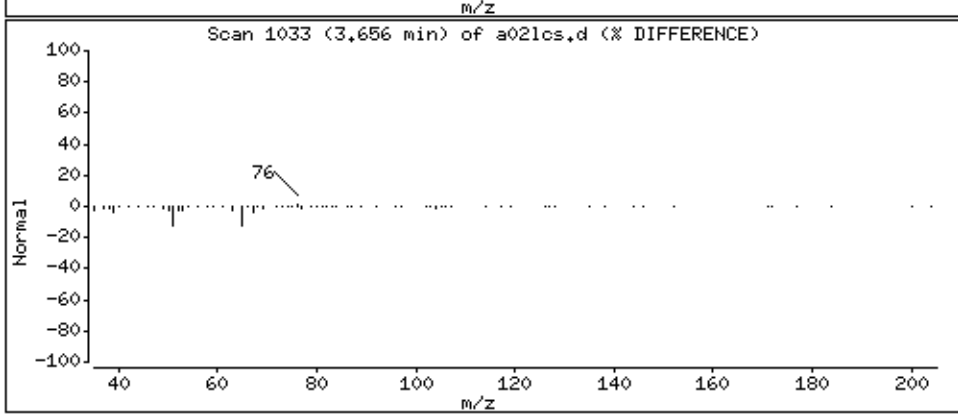
41 Benzene

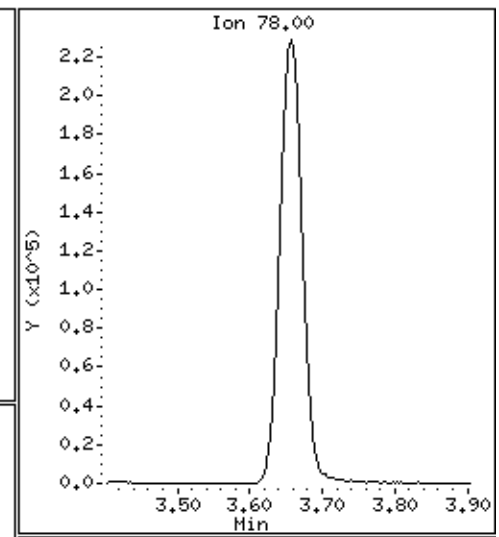
Concentration: 44.7 ppb

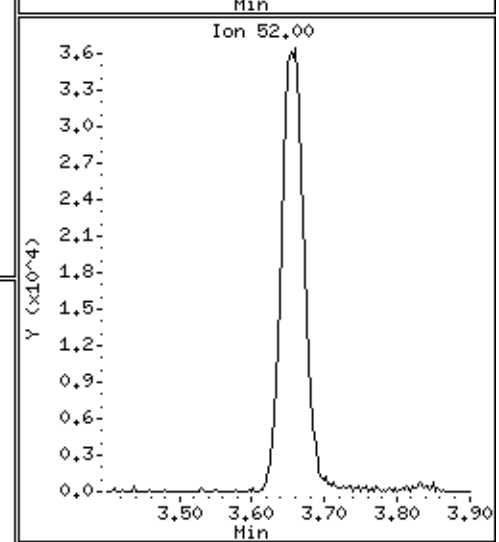


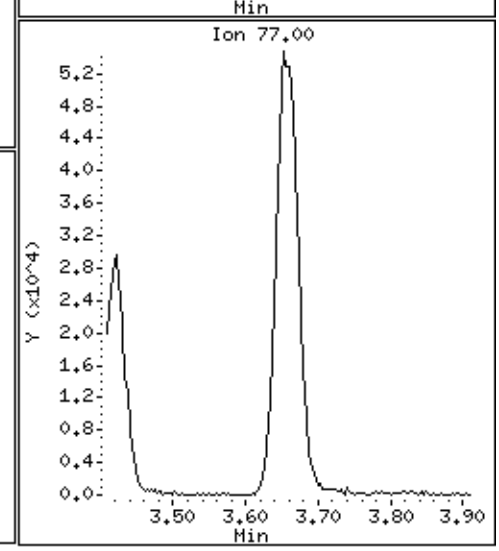












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

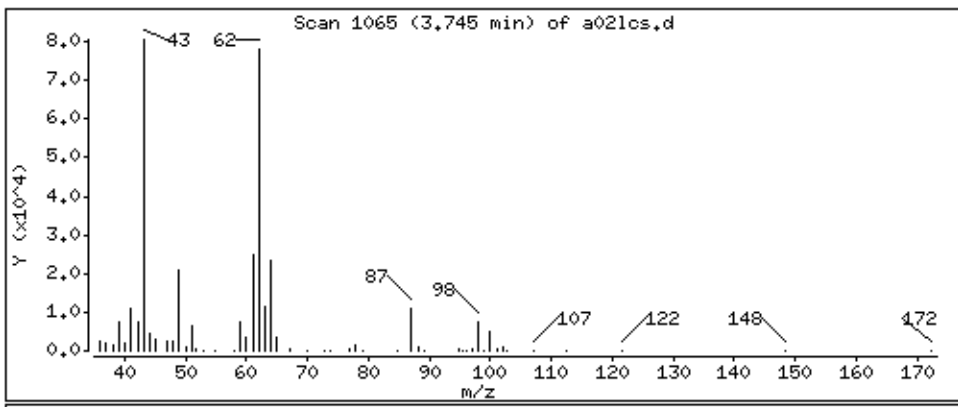
Operator: dae

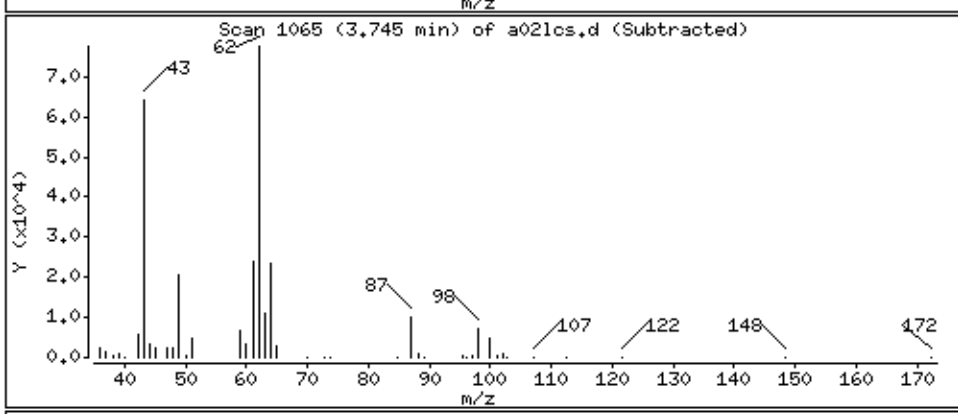
Column phase: DB-624

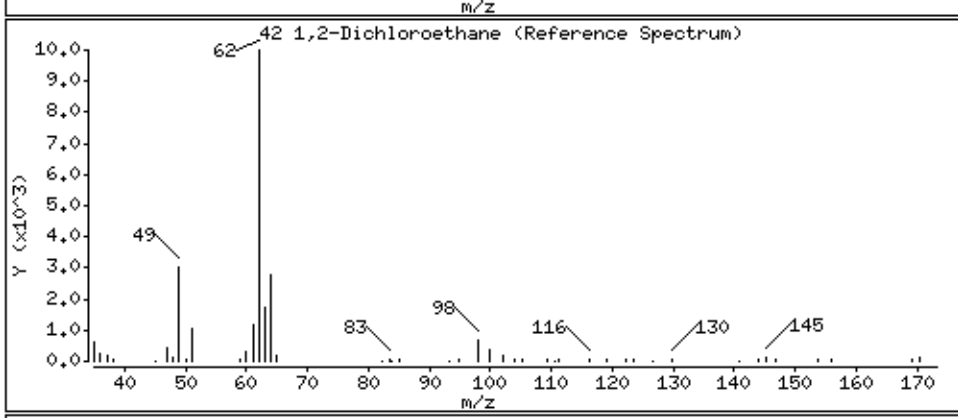
Column diameter: 0.18

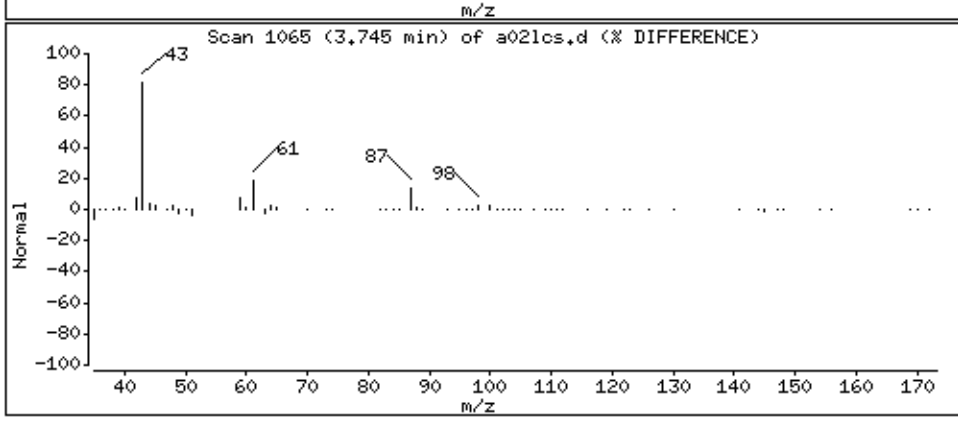
42 1,2-Dichloroethane

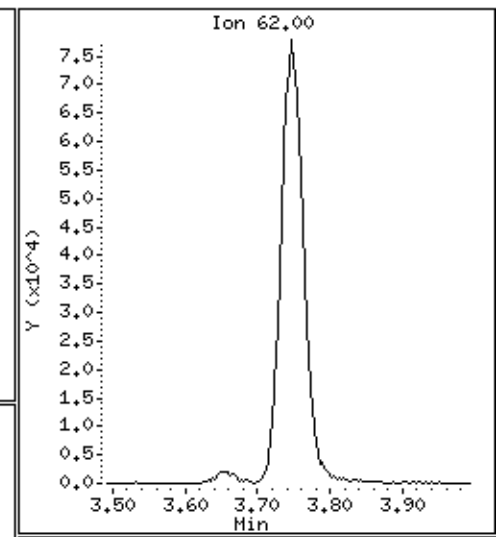
Concentration: 44.6 ppb

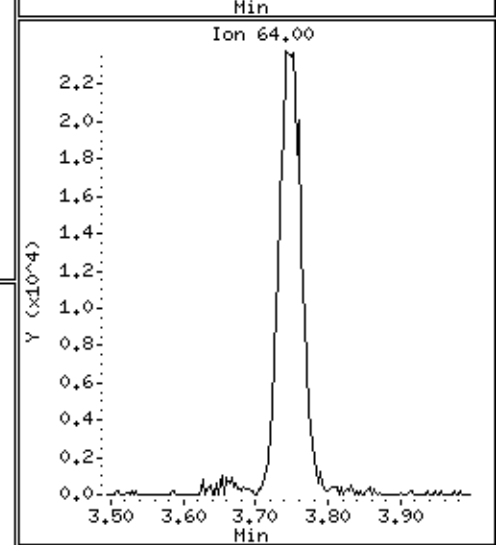


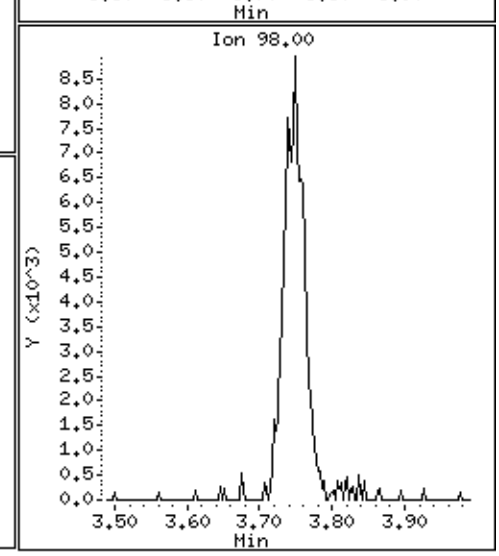












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

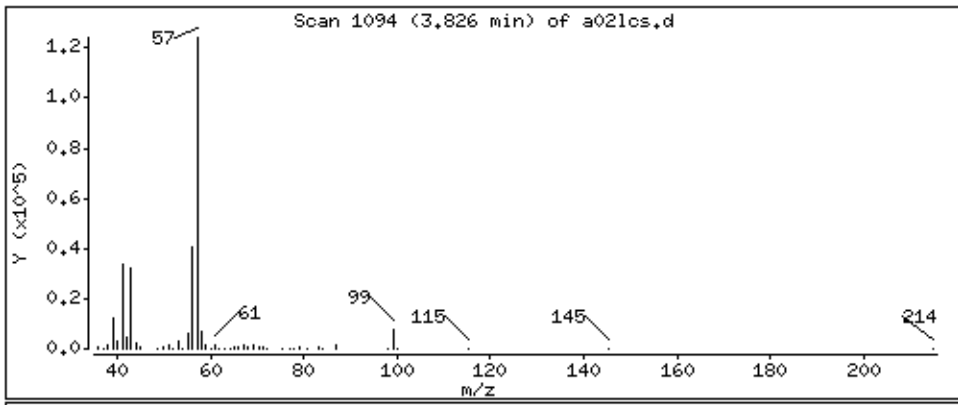
Operator: dae

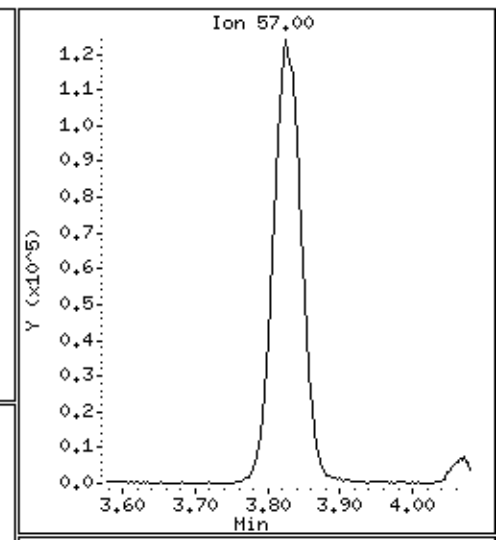
Column phase: DB-624

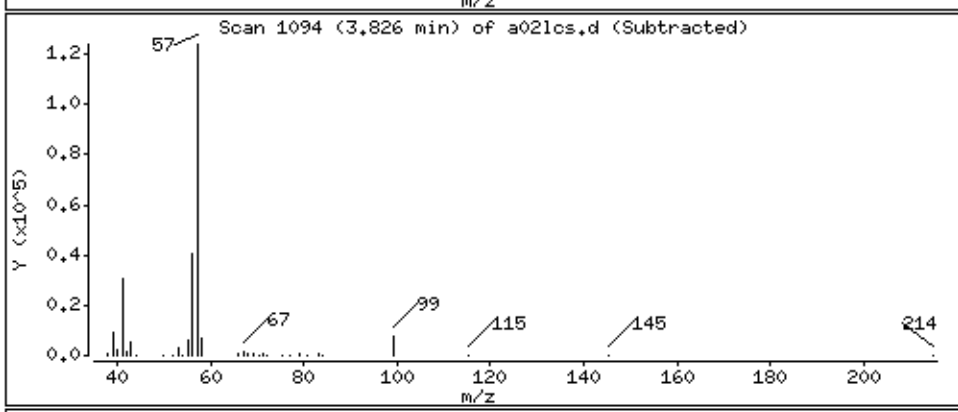
Column diameter: 0.18

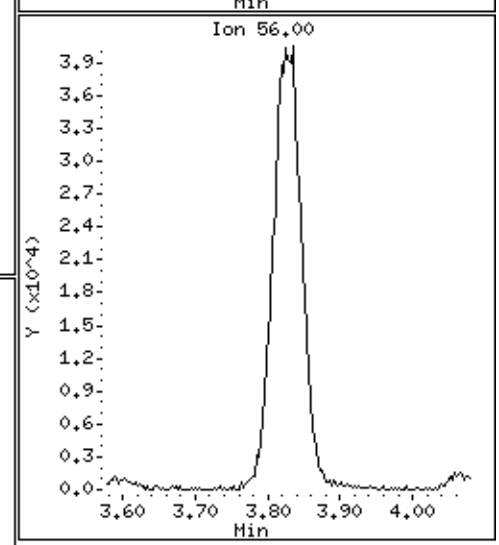
43 2,2,4-Trimethylpentane

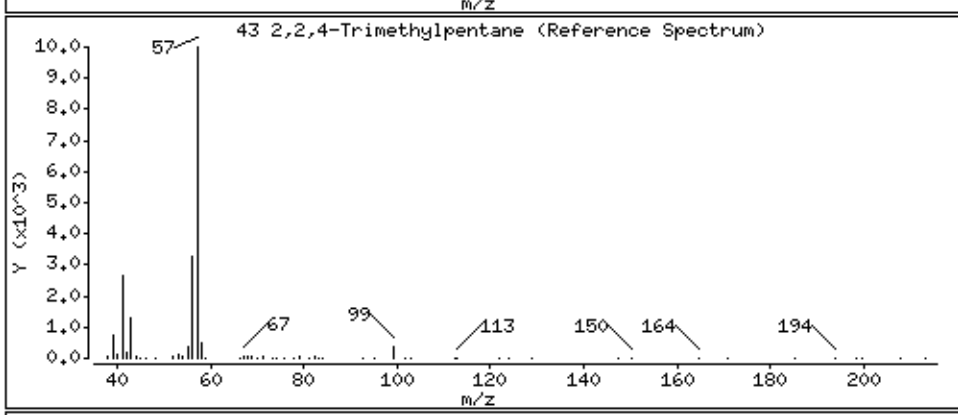
Concentration: 48.5 ppb

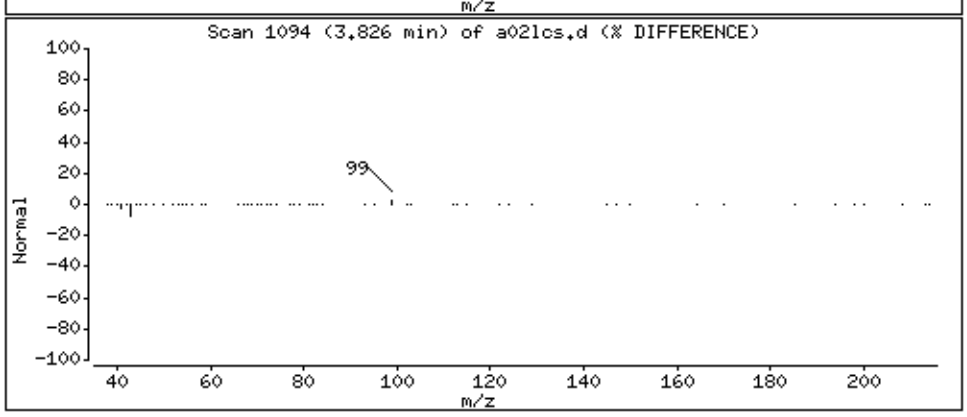












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

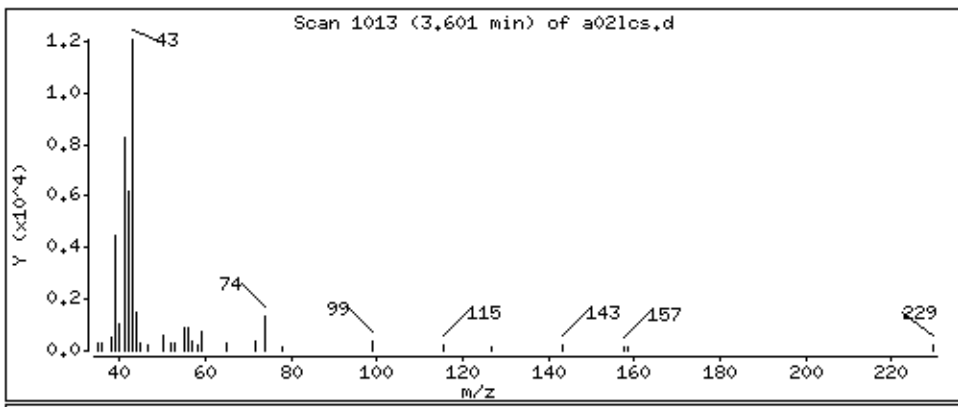
Operator: dae

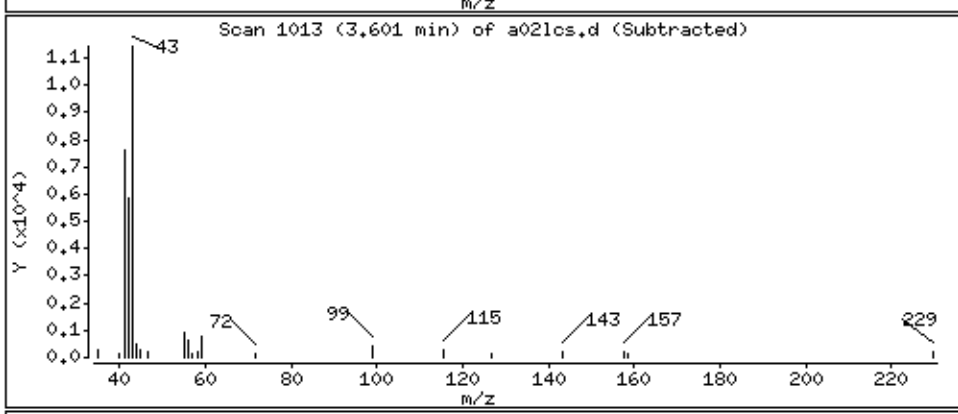
Column phase: DB-624

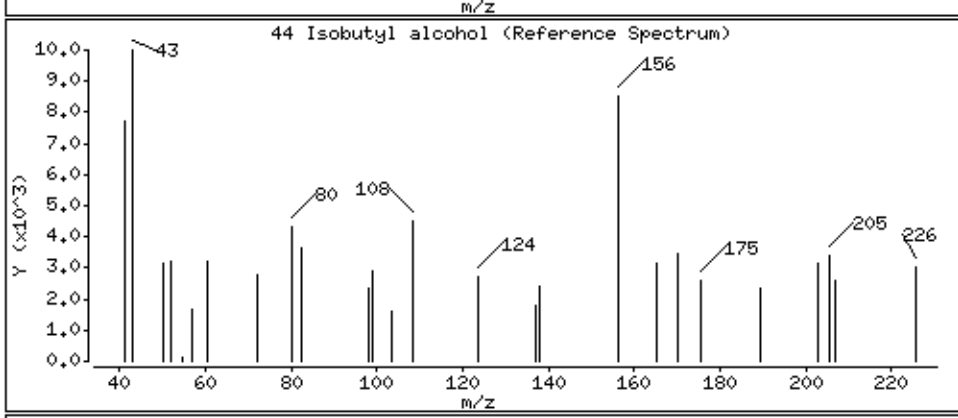
Column diameter: 0.18

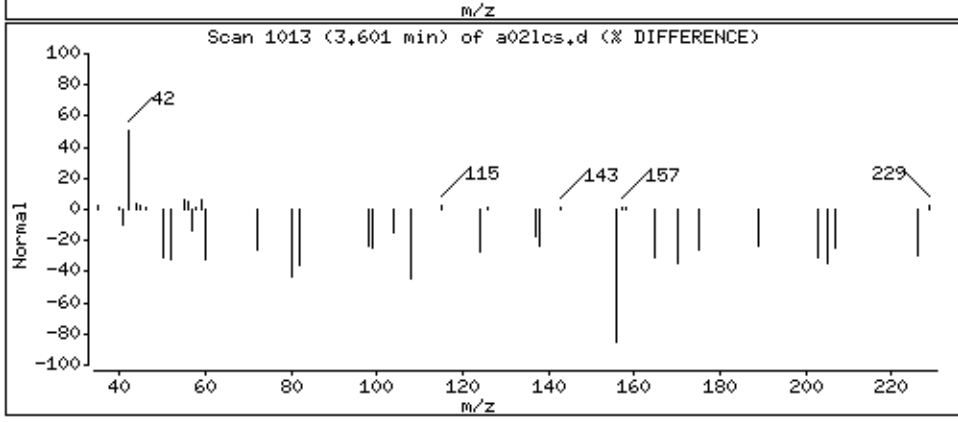
44 Isobutyl alcohol

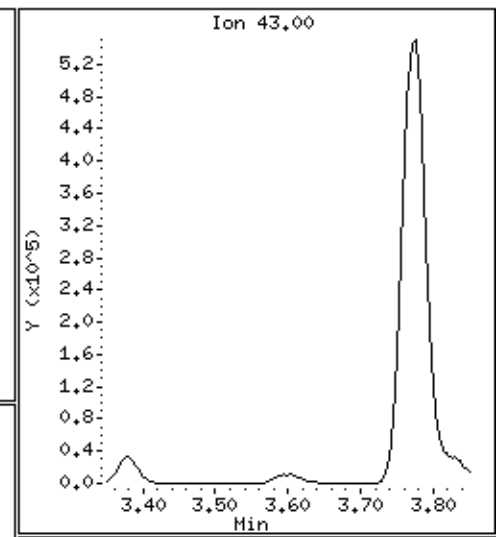
Concentration: 1.10 ppb

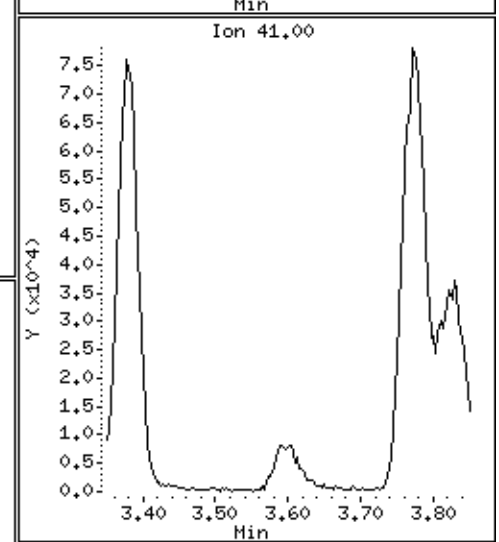


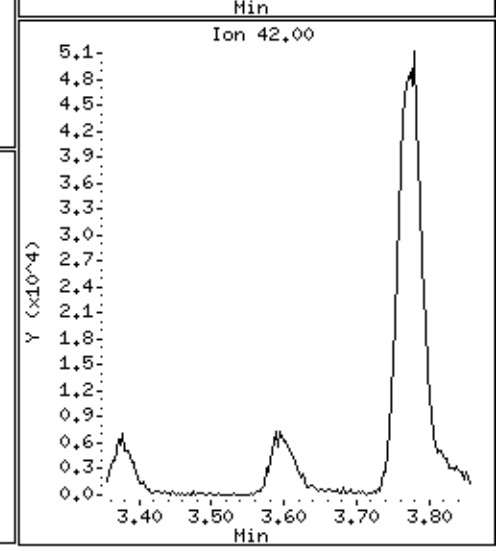












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

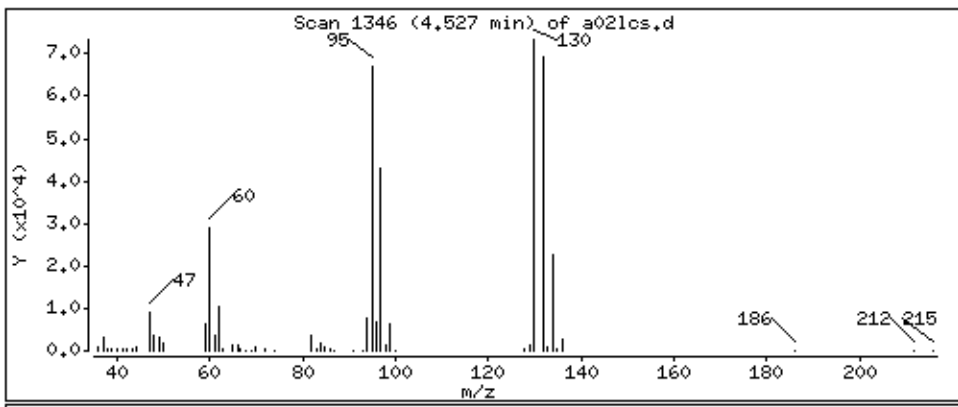
Operator: dae

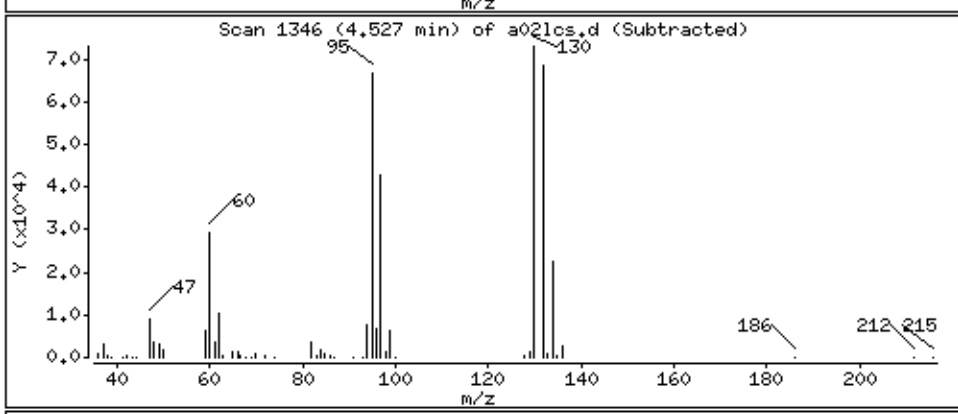
Column phase: DB-624

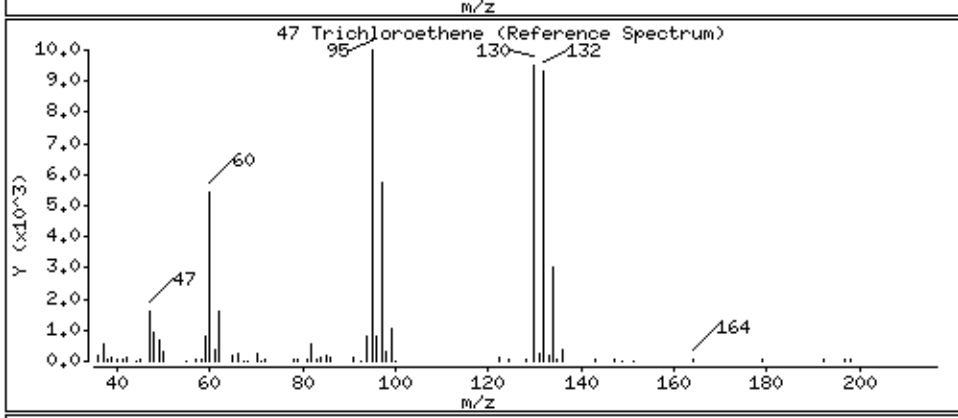
Column diameter: 0.18

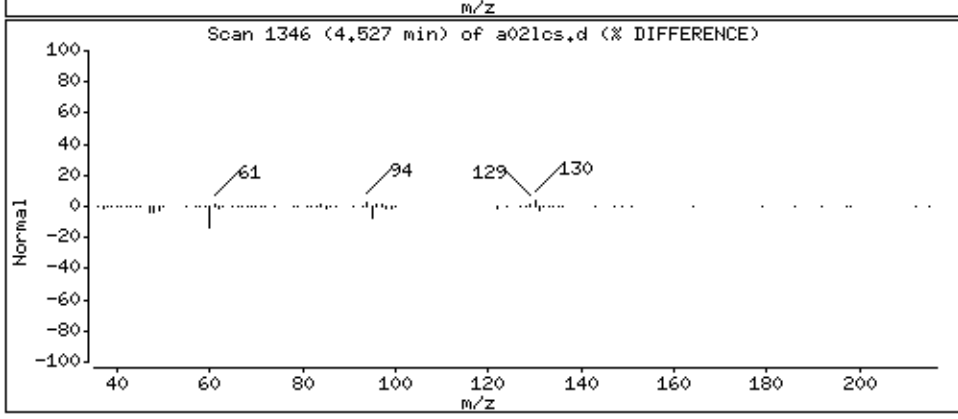
47 Trichloroethene

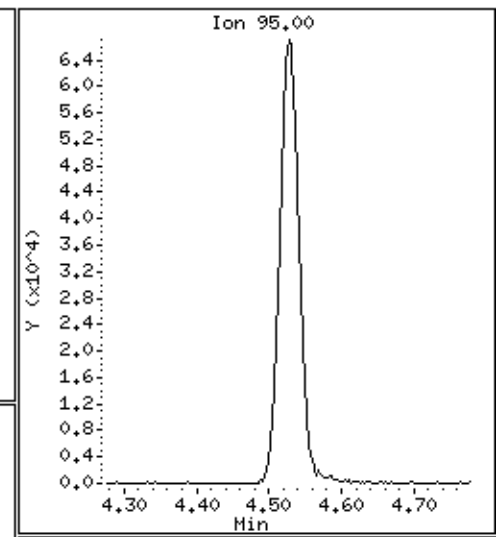
Concentration: 45.2 ppb

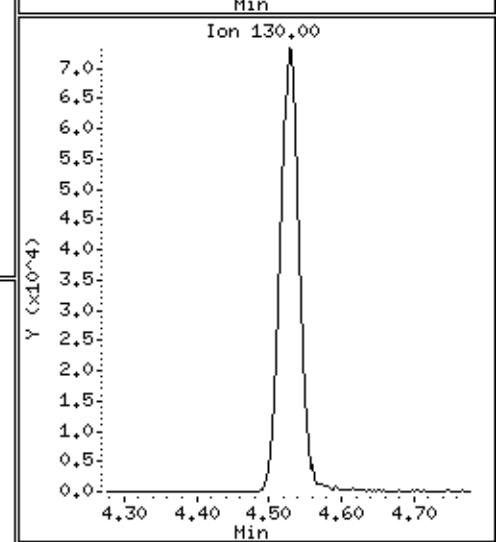


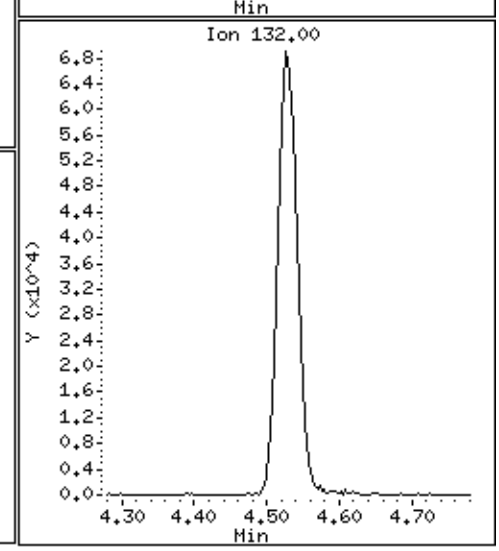












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

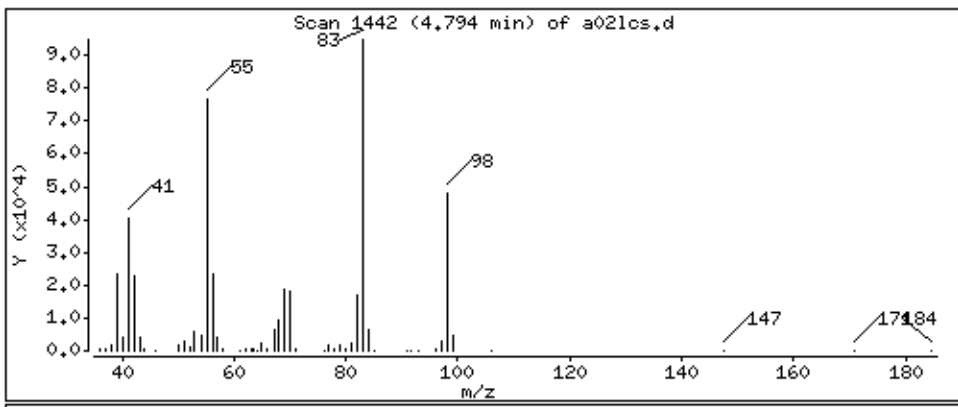
Operator: dae

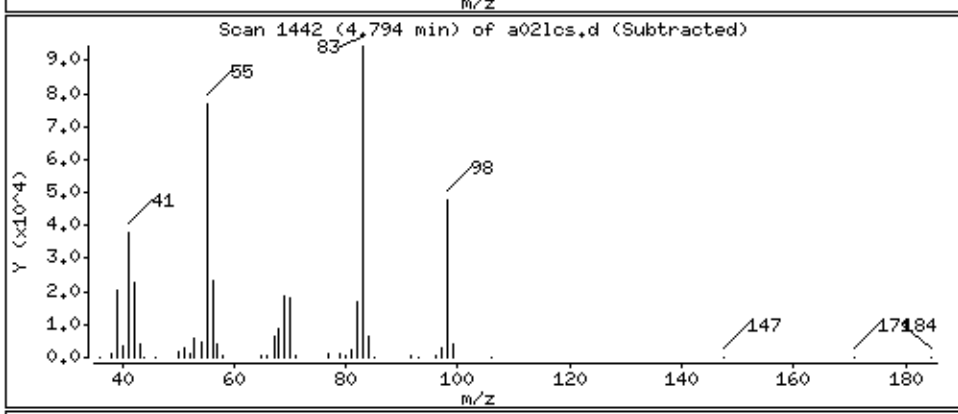
Column phase: DB-624

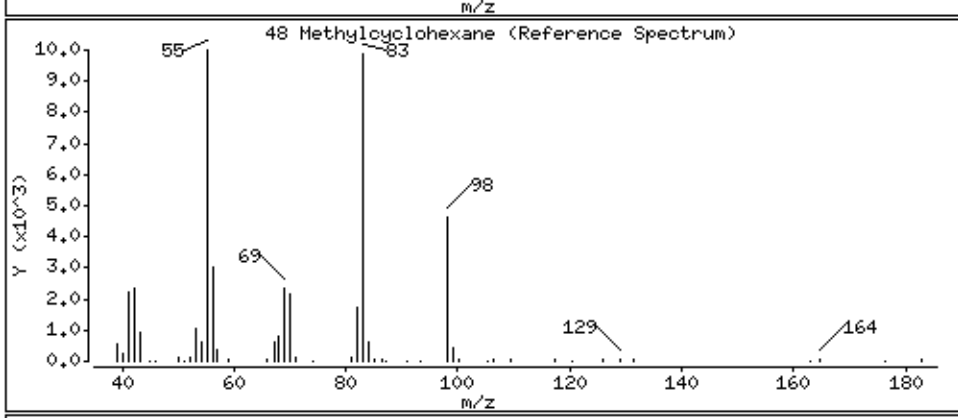
Column diameter: 0.18

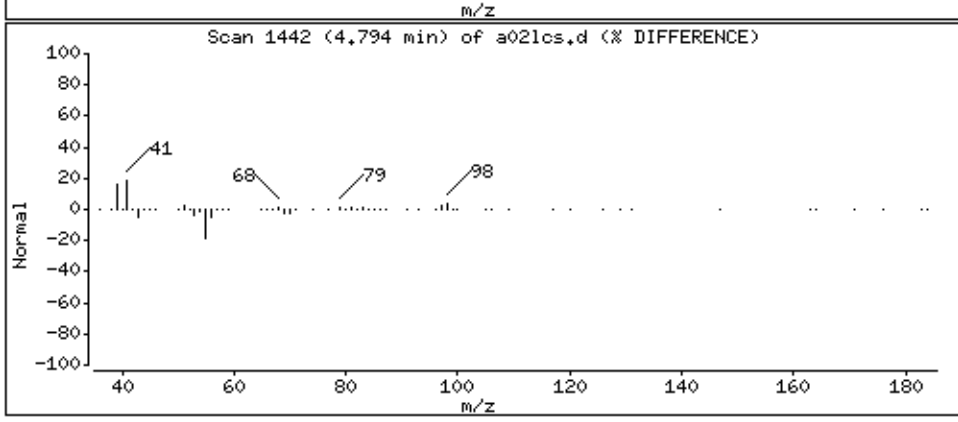
48 Methylcyclohexane

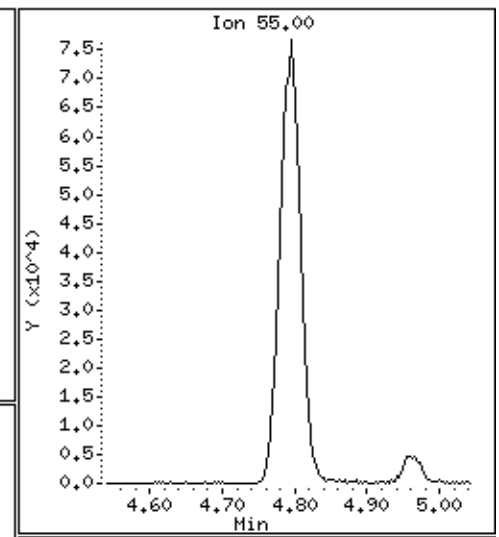
Concentration: 47.3 ppb

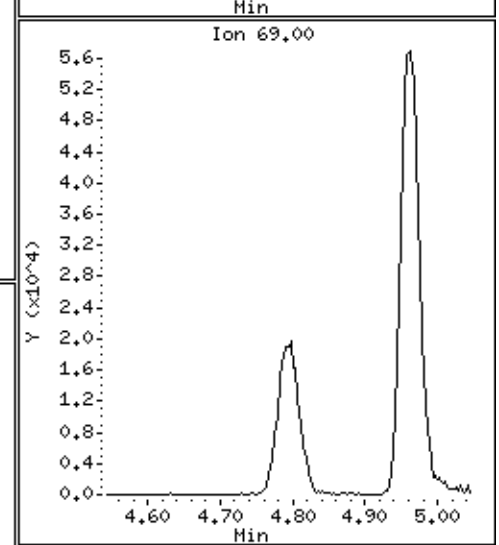


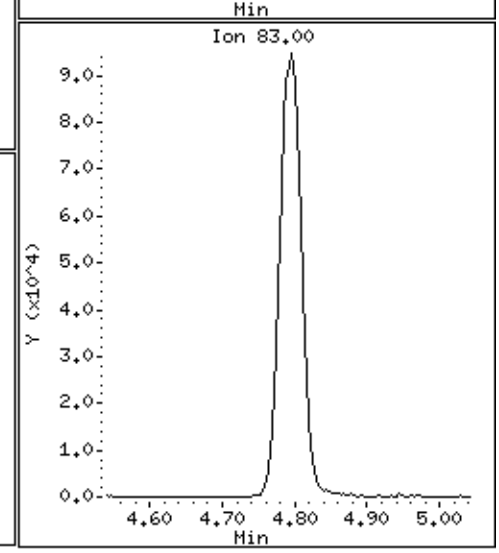












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

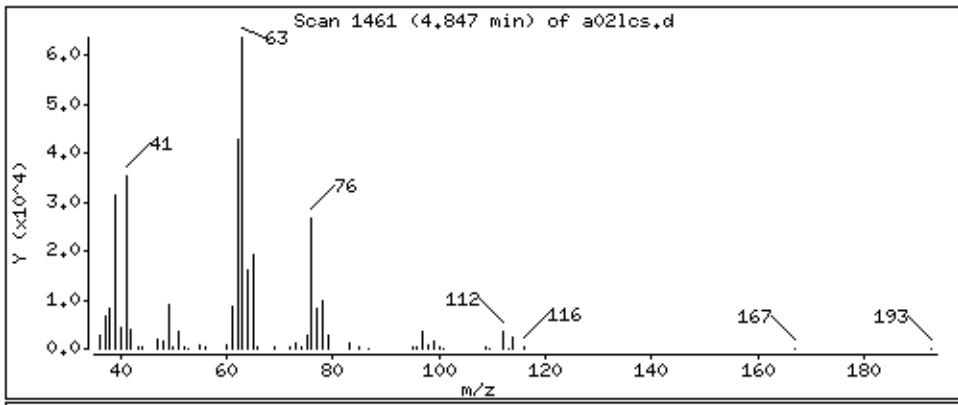
Operator: dae

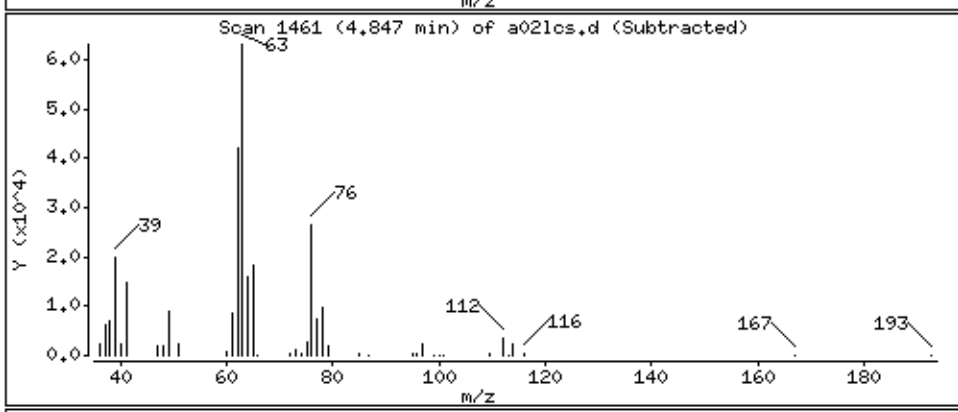
Column phase: DB-624

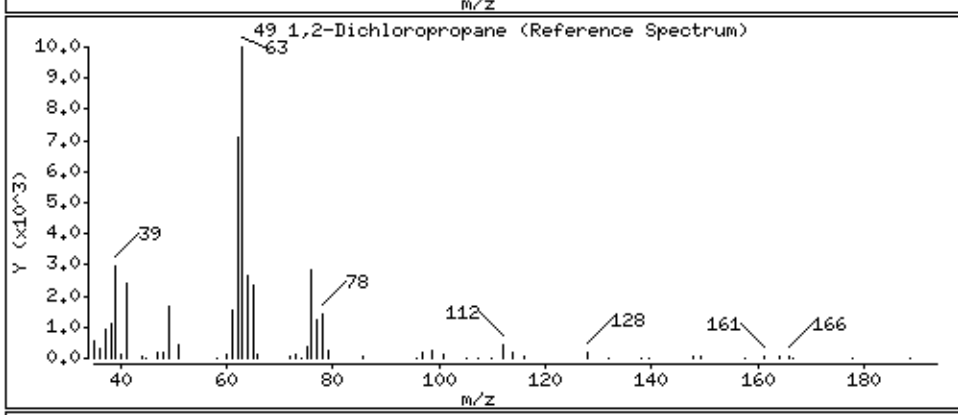
Column diameter: 0.18

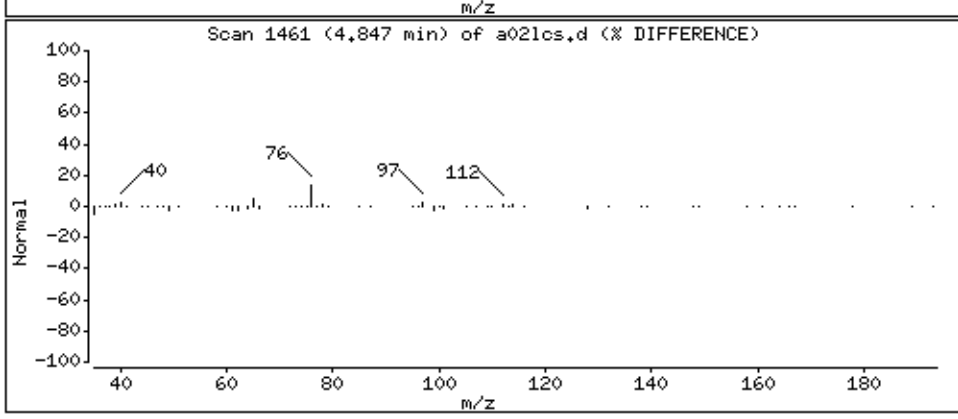
49 1,2-Dichloropropane

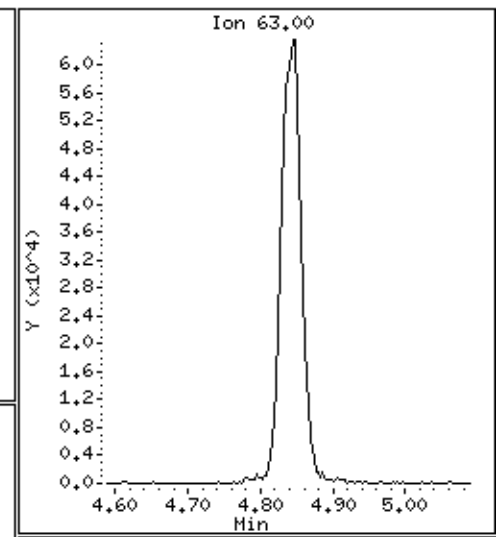
Concentration: 43.5 ppb

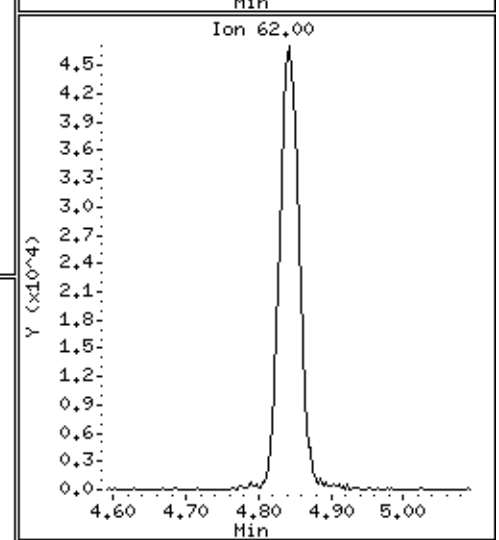


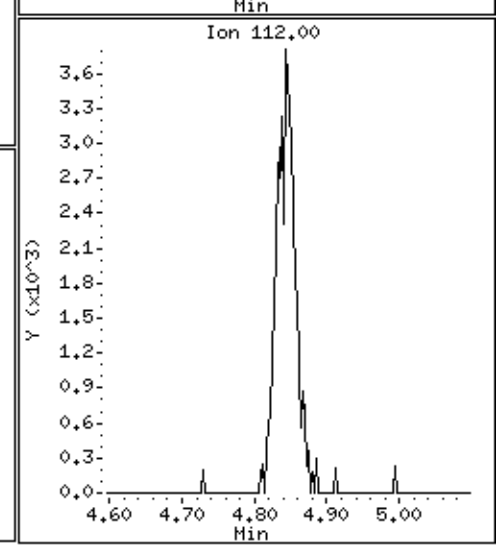












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

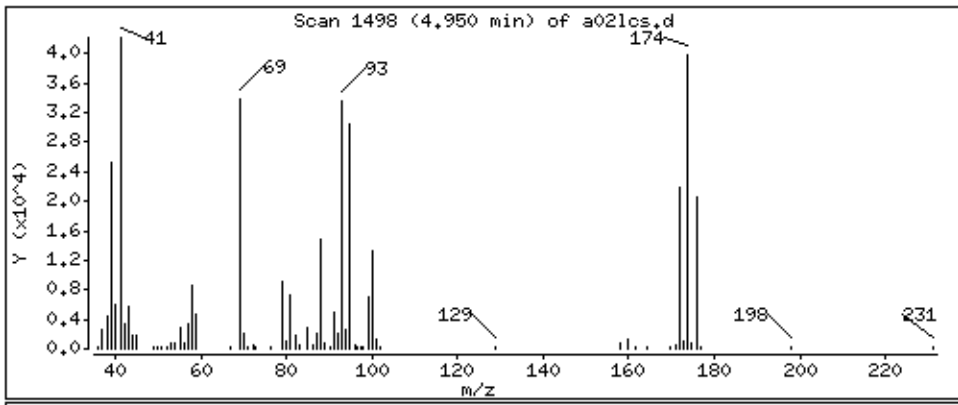
Operator: dae

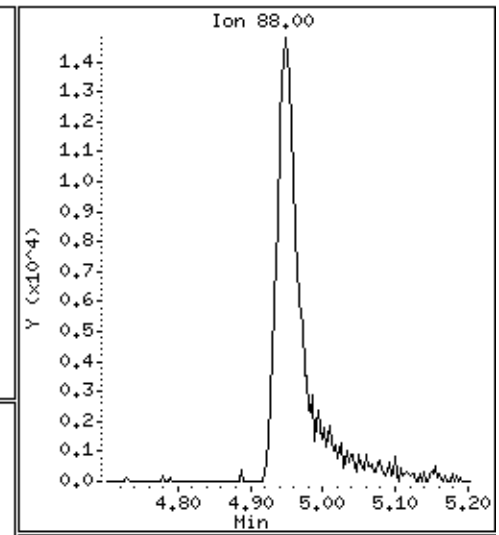
Column phase: DB-624

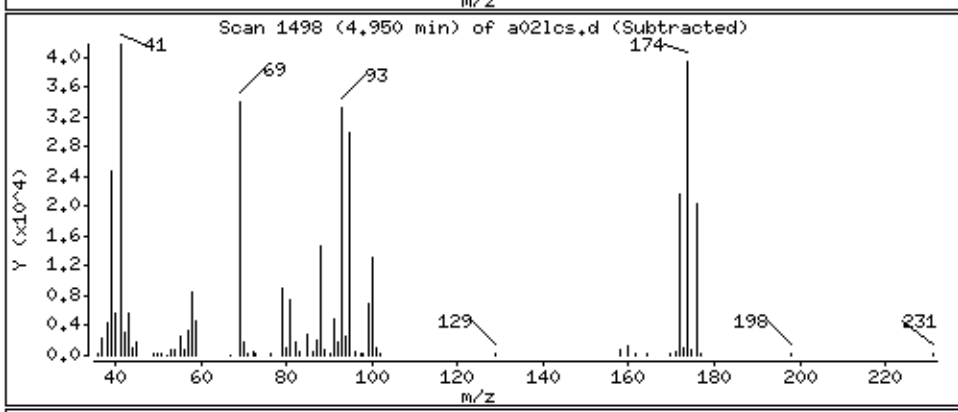
Column diameter: 0.18

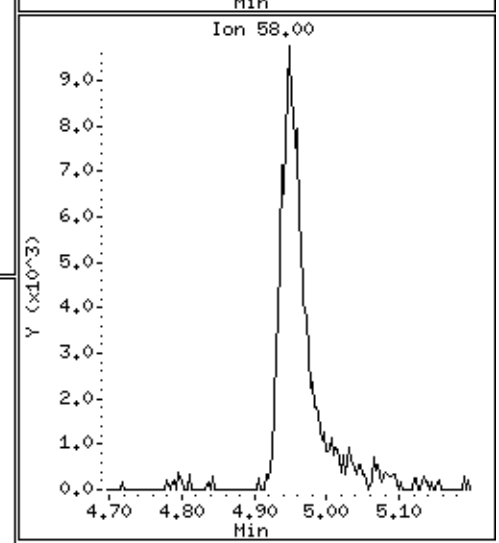
50 1,4-Dioxane

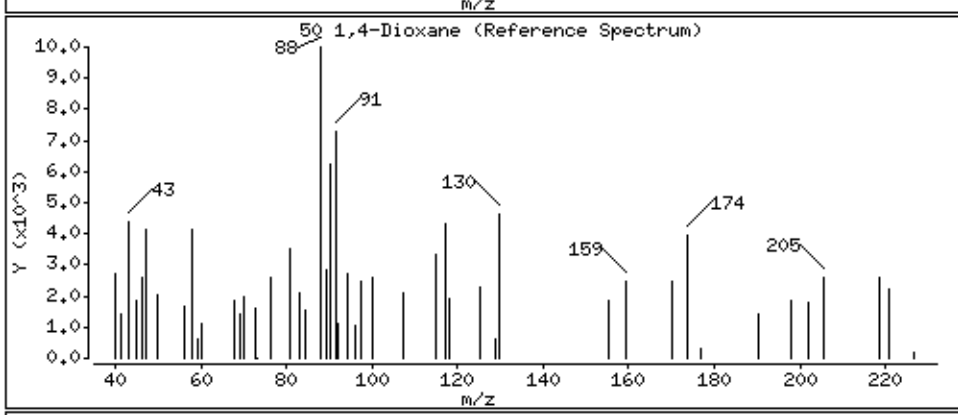
Concentration: 1050 ppb

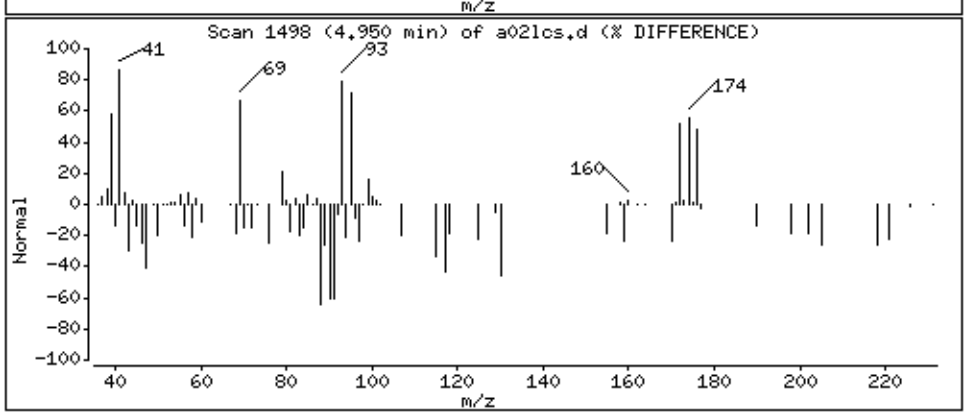












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

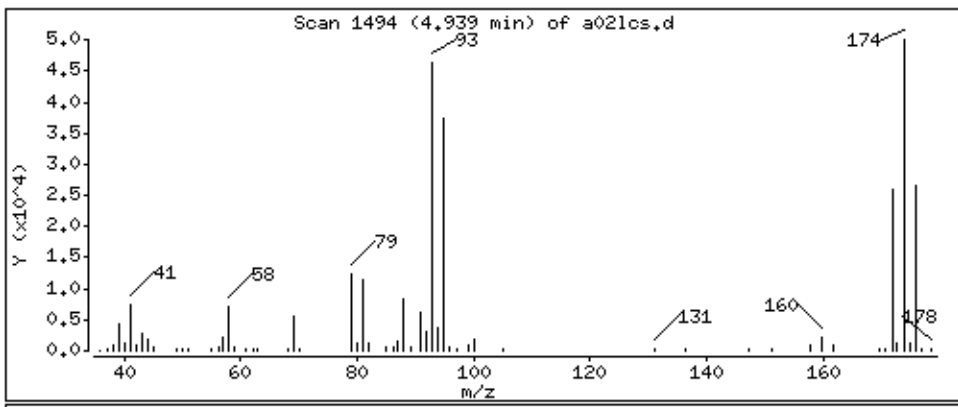
Operator: dae

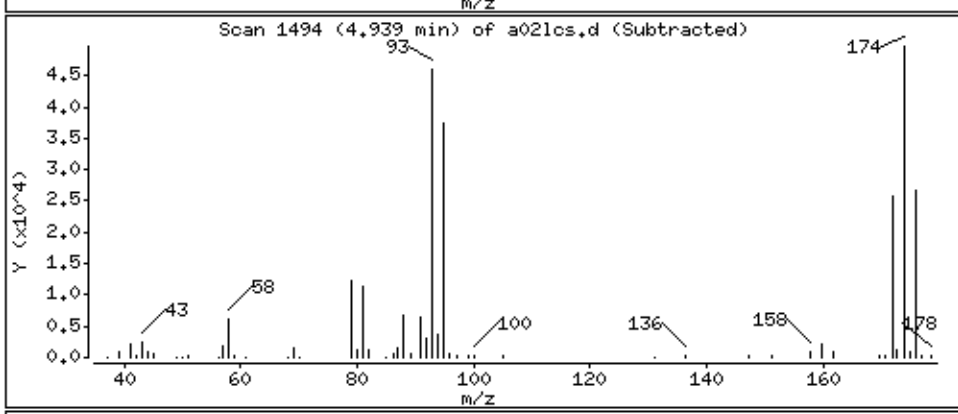
Column phase: DB-624

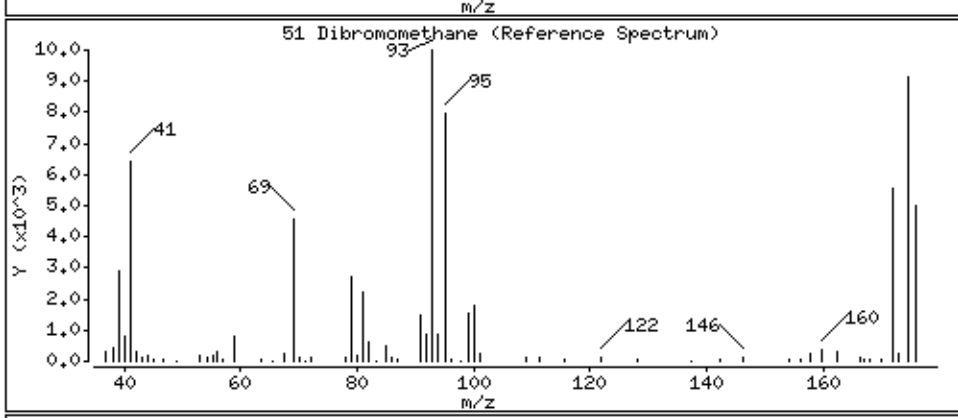
Column diameter: 0.18

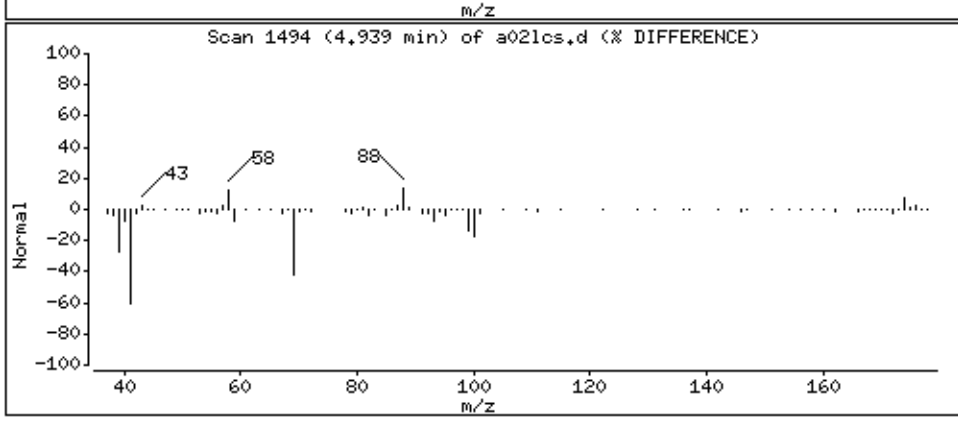
51 Dibromomethane

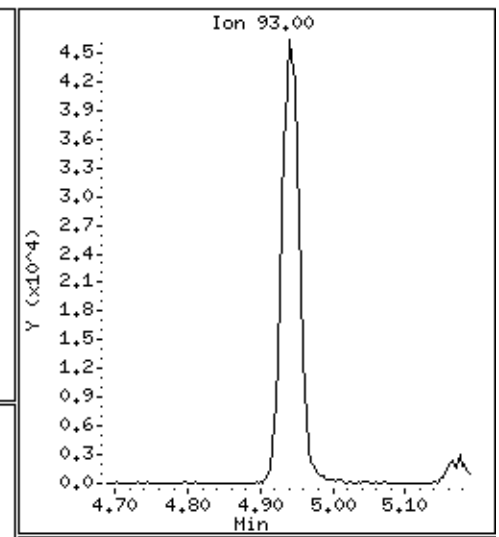
Concentration: 44.8 ppb

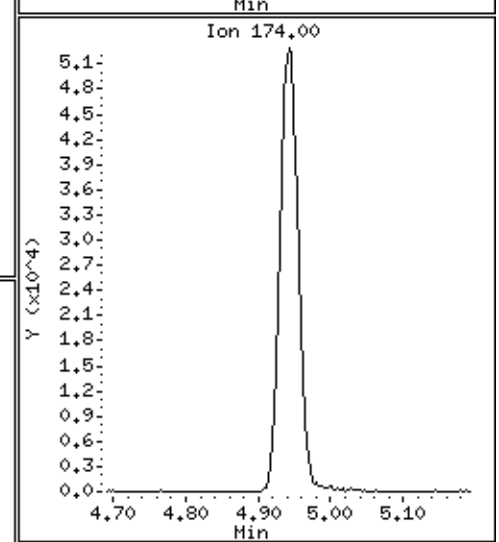


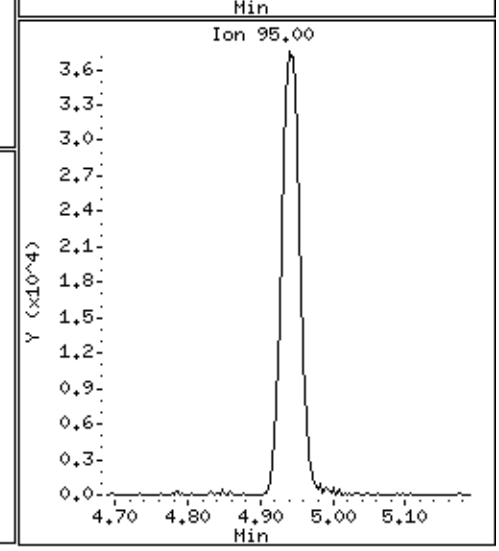












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

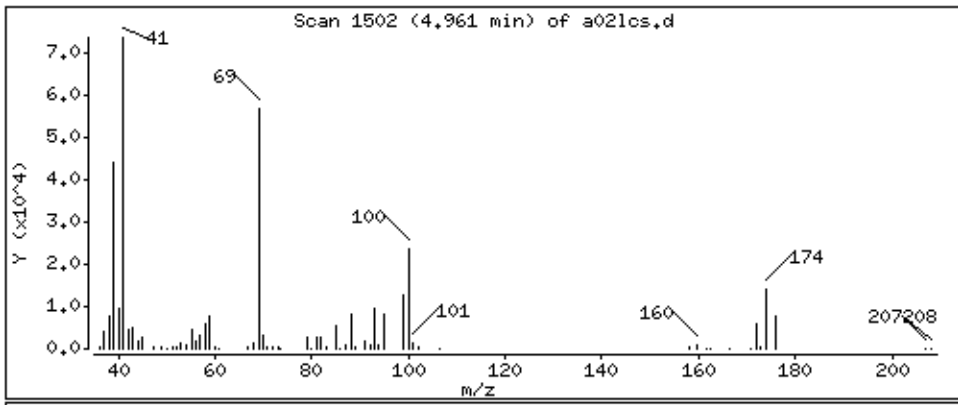
Operator: dae

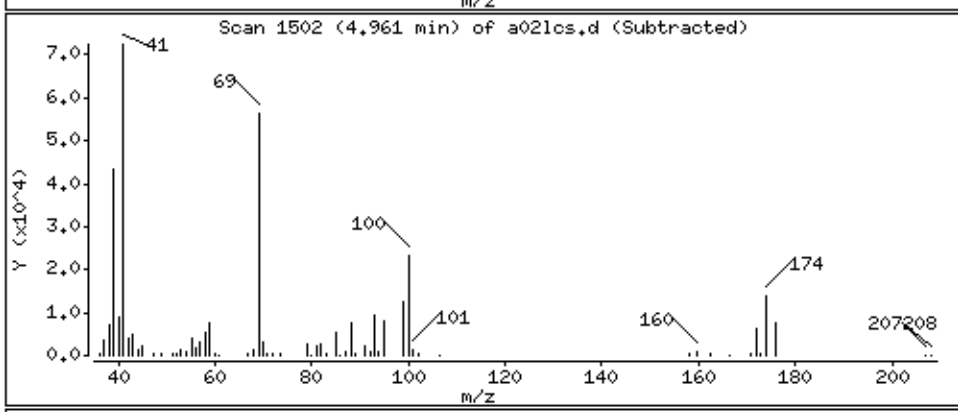
Column phase: DB-624

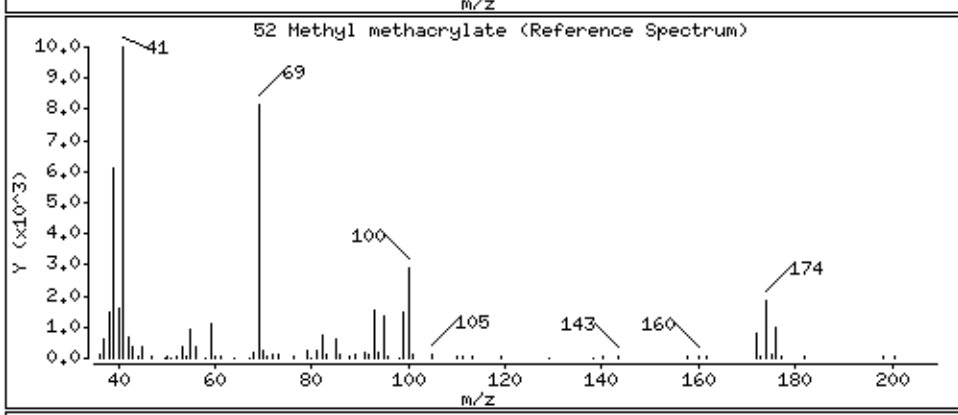
Column diameter: 0.18

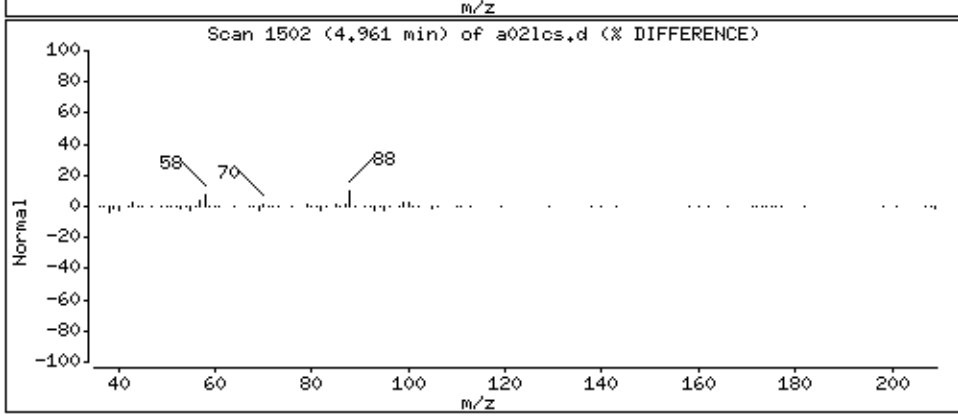
52 Methyl methacrylate

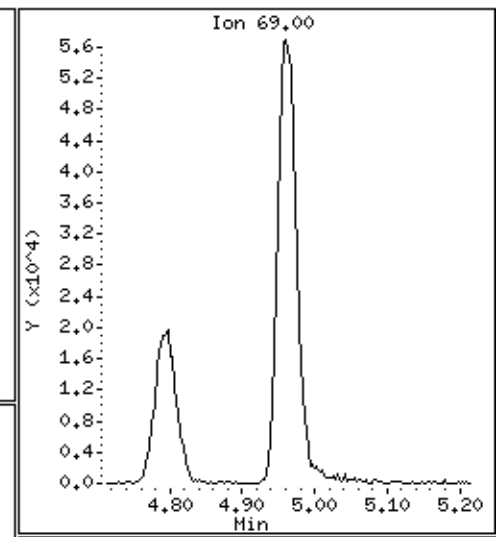
Concentration: 43.9 ppb

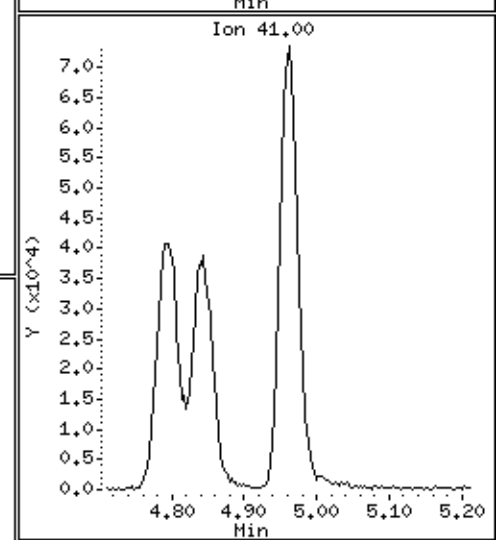


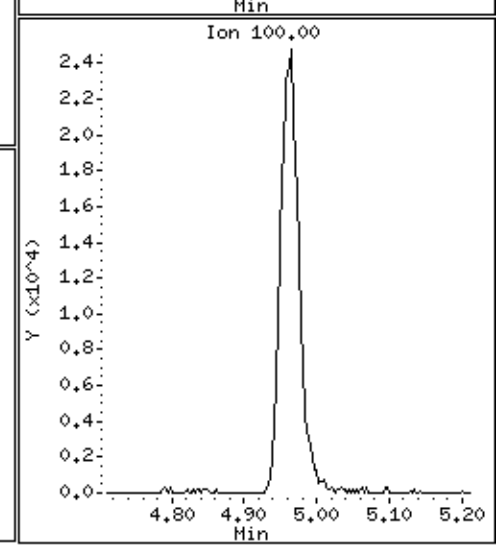












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

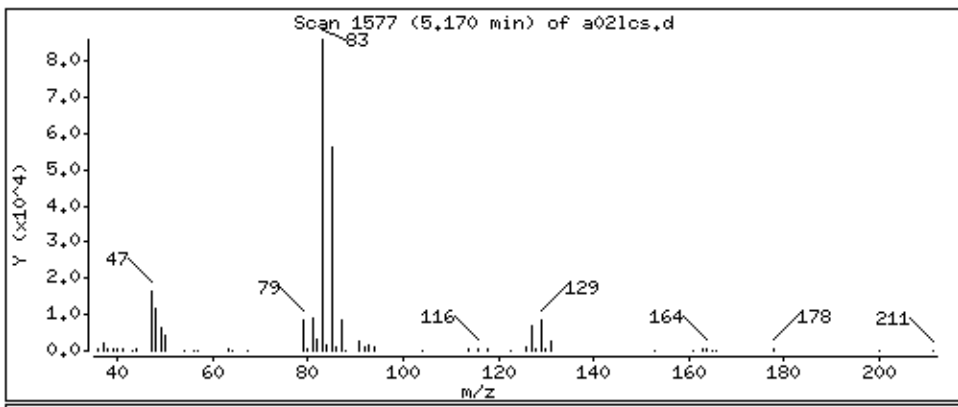
Operator: dae

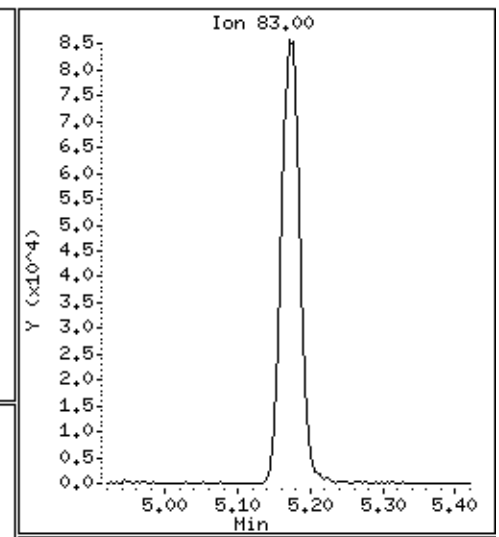
Column phase: DB-624

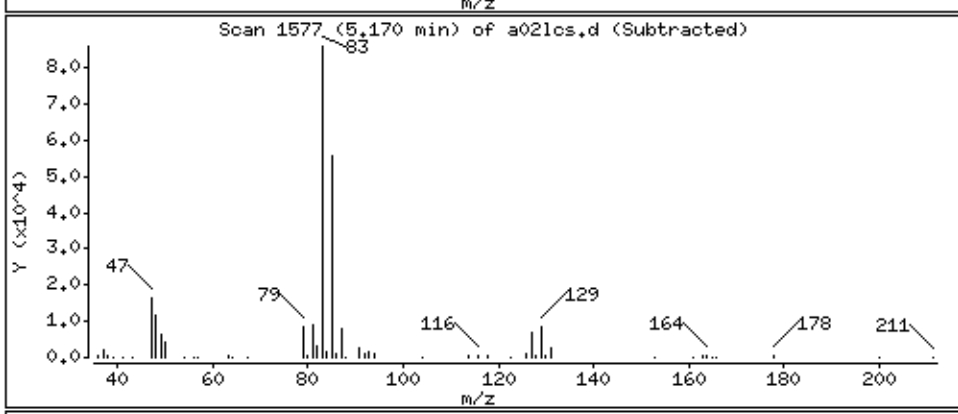
Column diameter: 0.18

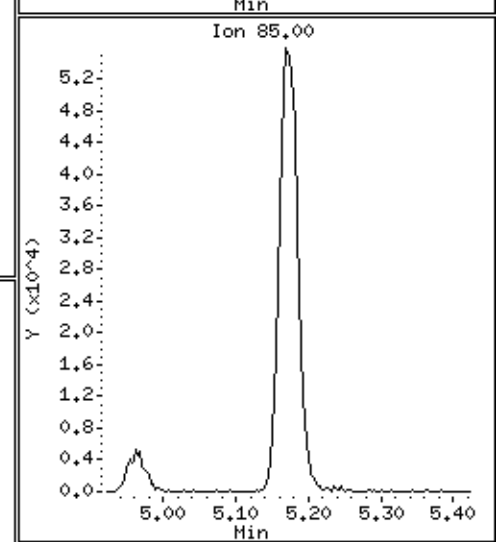
53 Bromodichloromethane

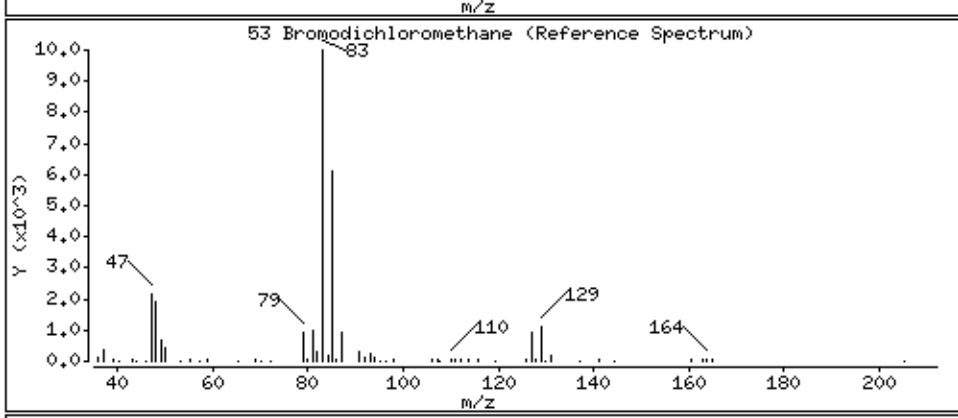
Concentration: 43.4 ppb

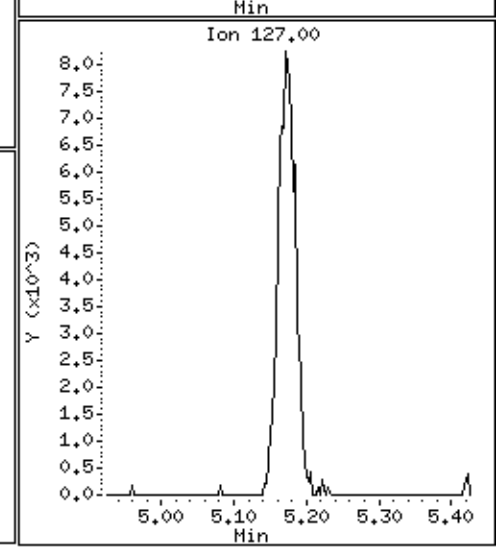


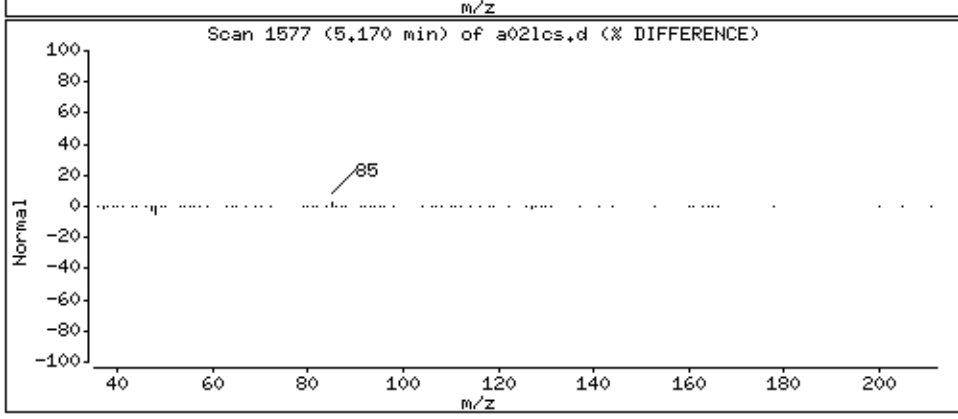












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

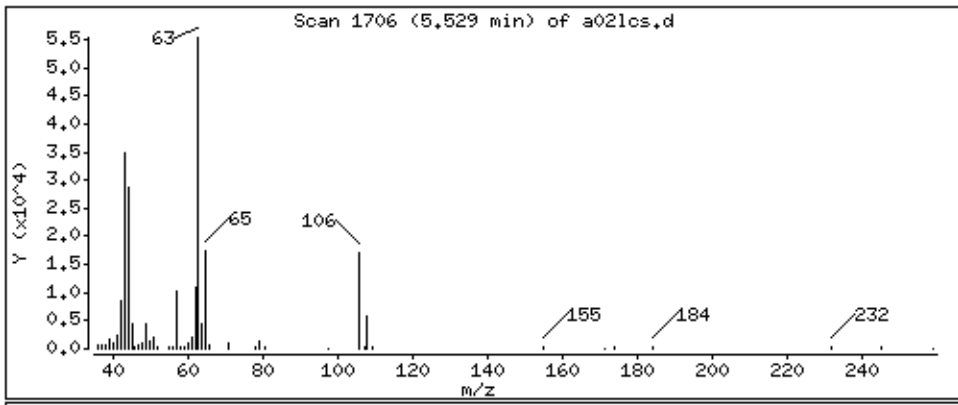
Operator: dae

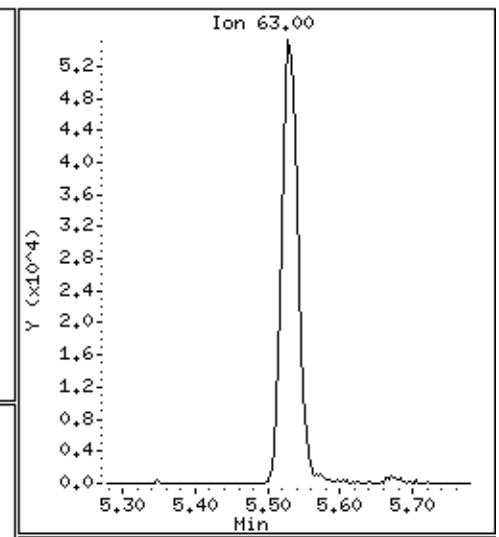
Column phase: DB-624

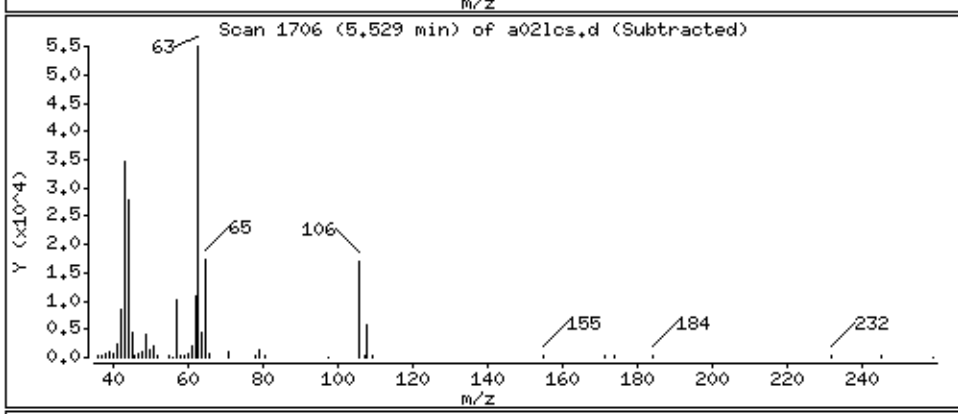
Column diameter: 0.18

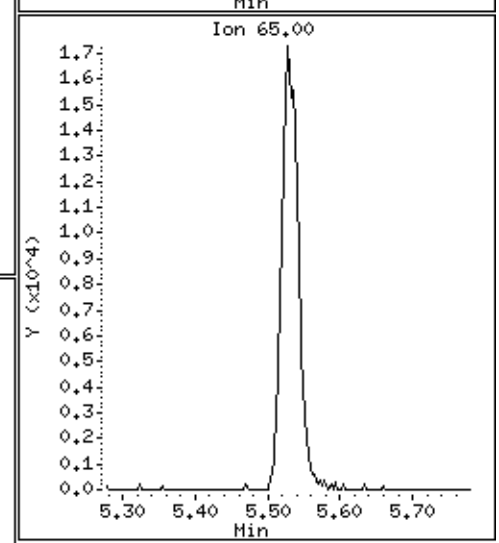
54 2-Chloroethyl vinyl ether

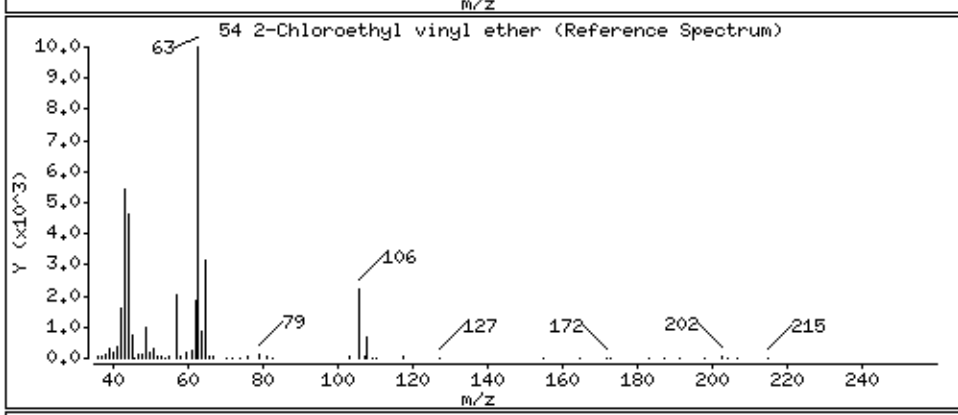
Concentration: 41.0 ppb

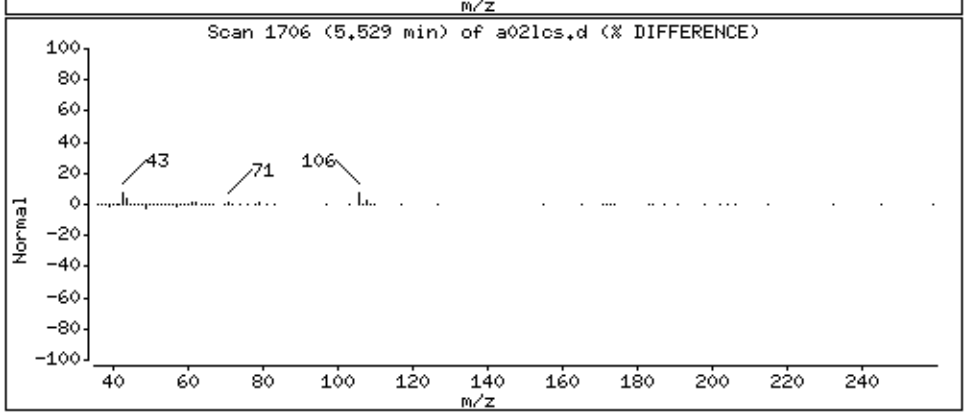












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

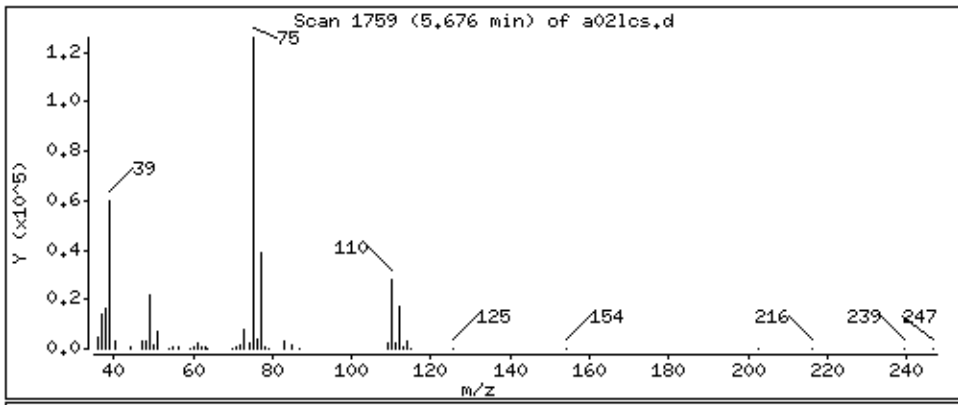
Operator: dae

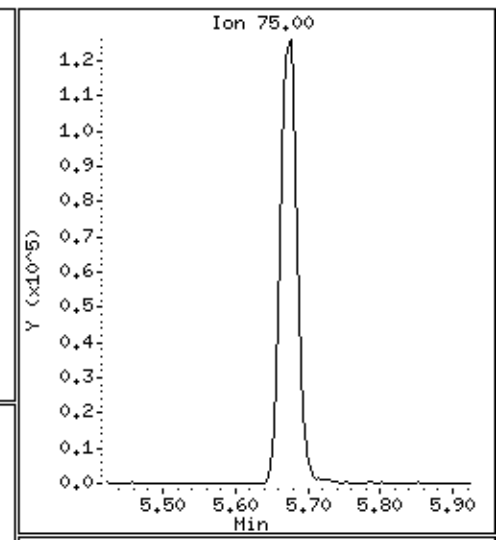
Column phase: DB-624

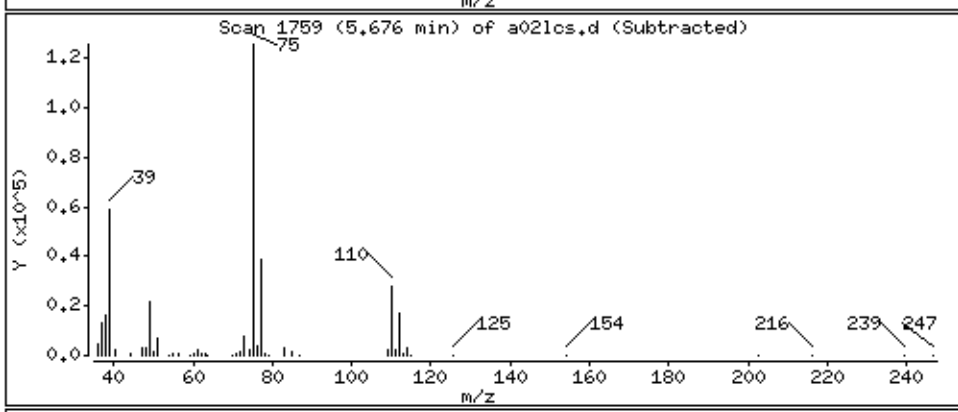
Column diameter: 0.18

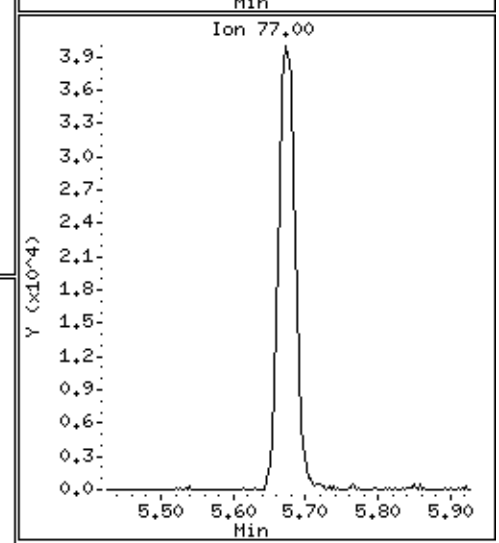
55 cis-1,3-Dichloropropene

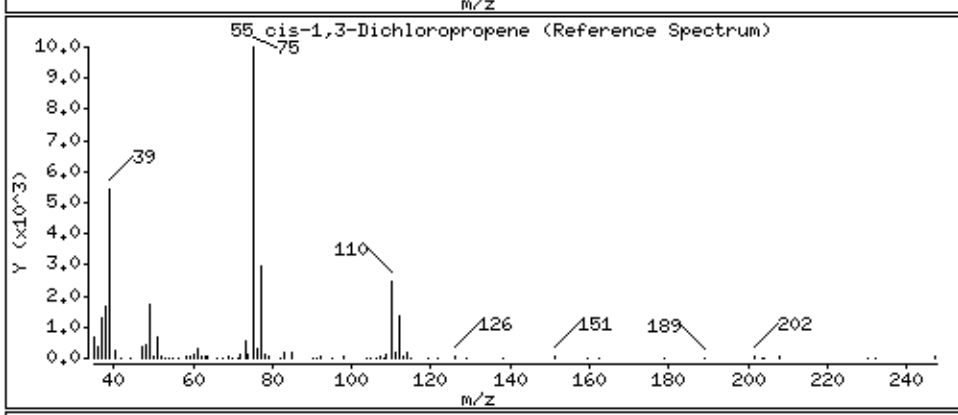
Concentration: 44.8 ppb

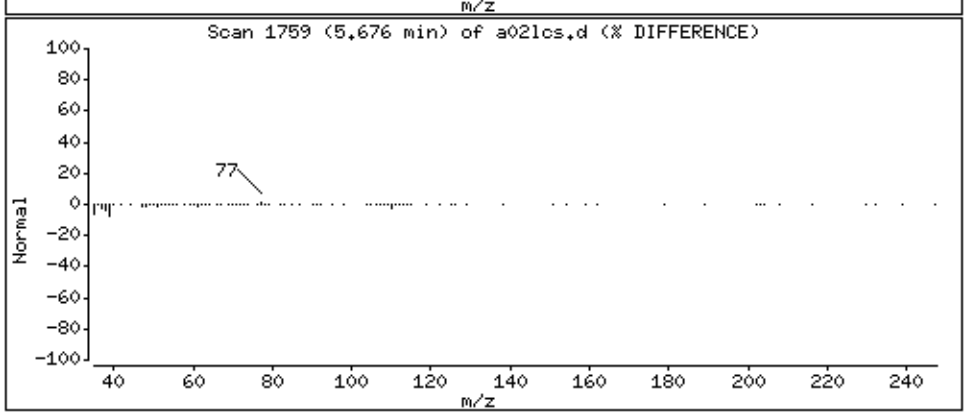












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

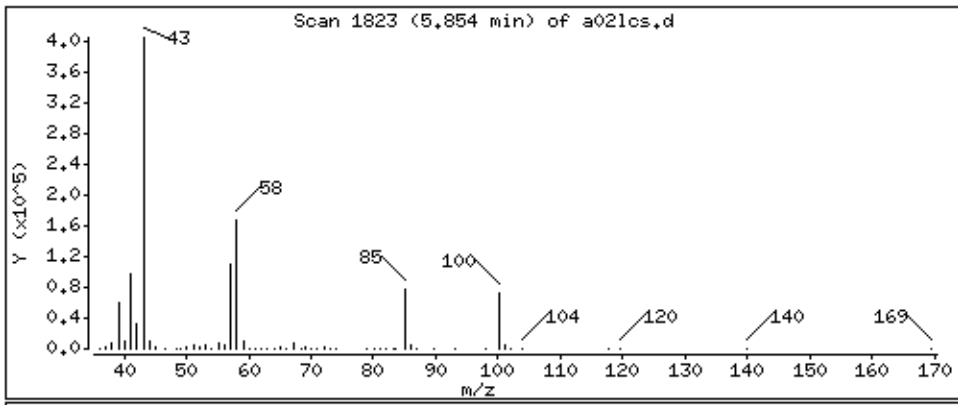
Operator: dae

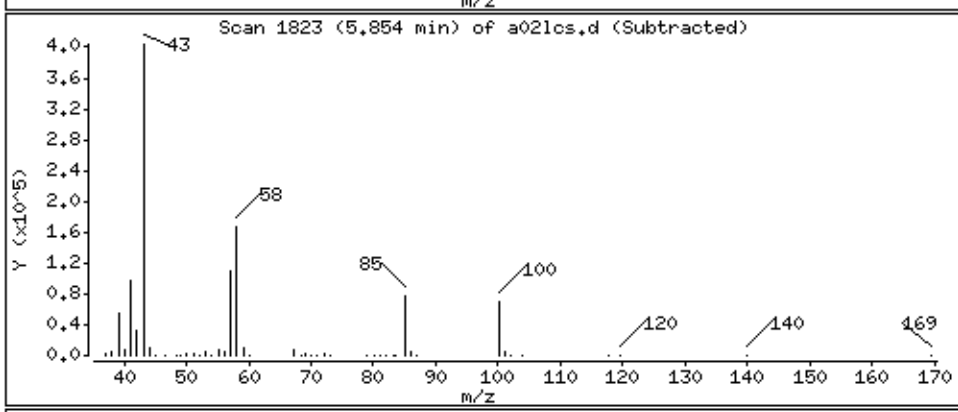
Column phase: DB-624

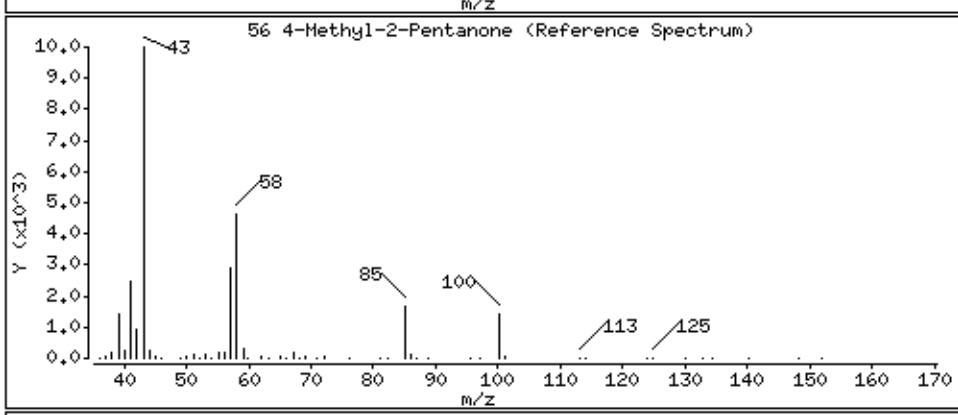
Column diameter: 0.18

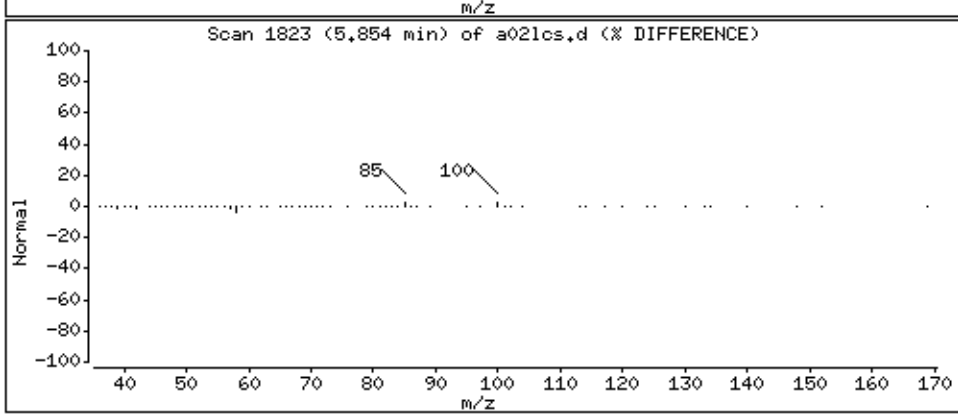
56 4-Methyl-2-Pentanone

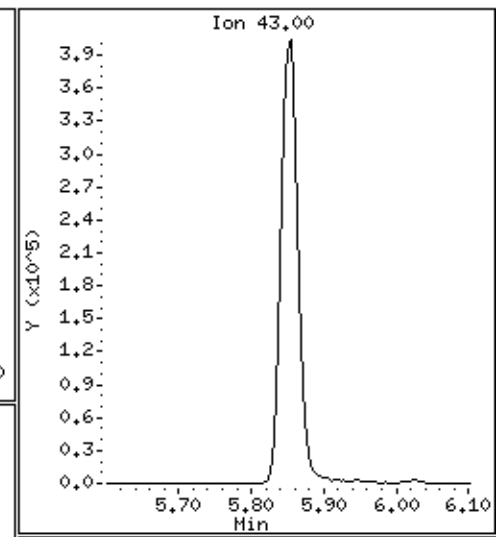
Concentration: 216 ppb

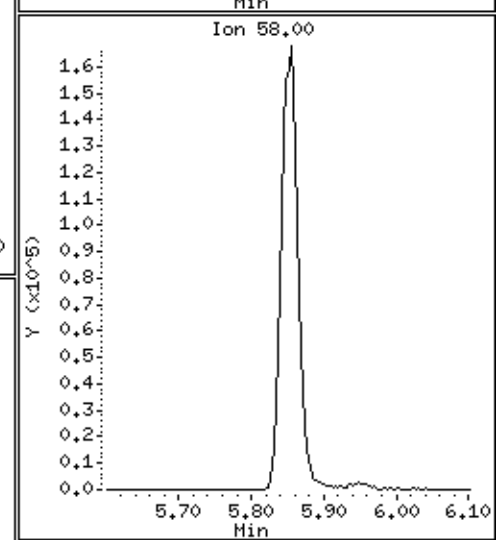


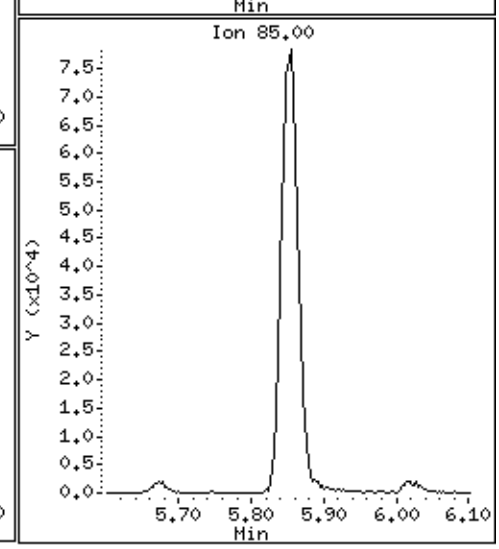












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

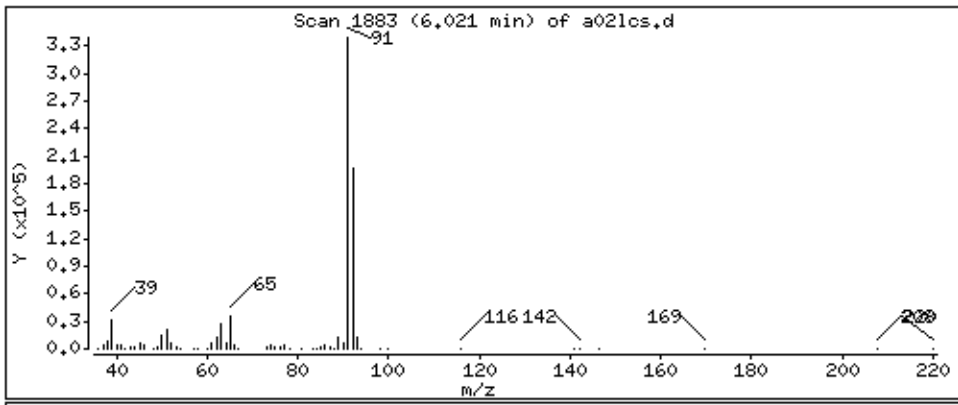
Operator: dae

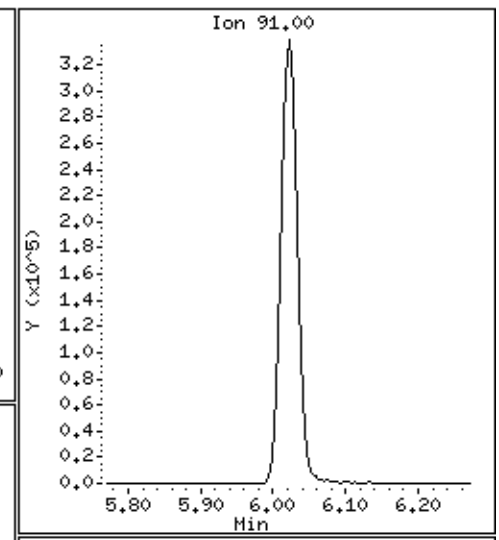
Column phase: DB-624

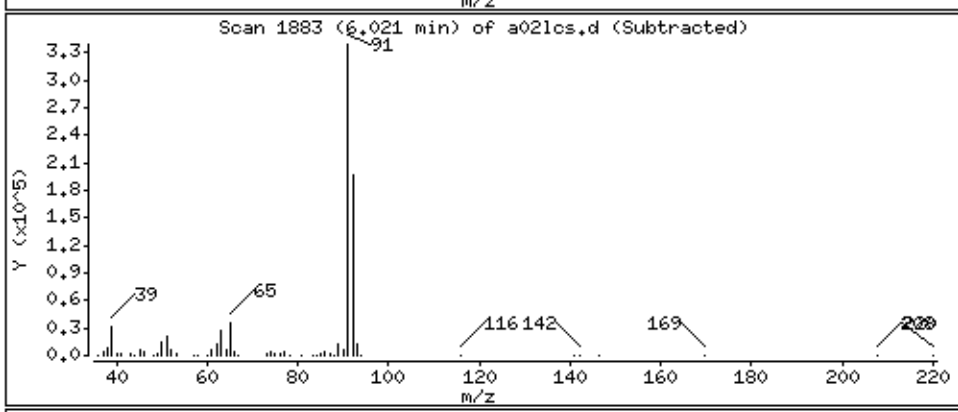
Column diameter: 0.18

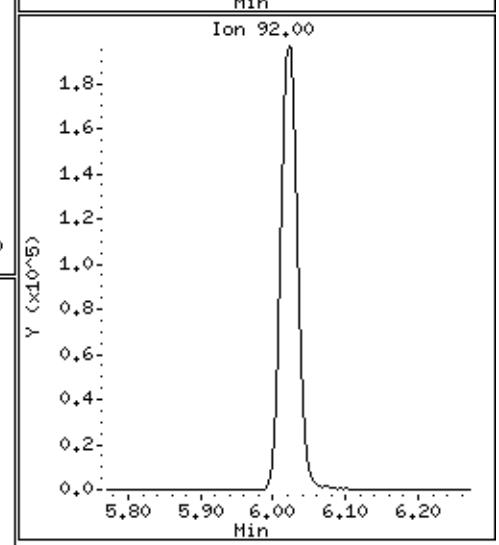
58 Toluene

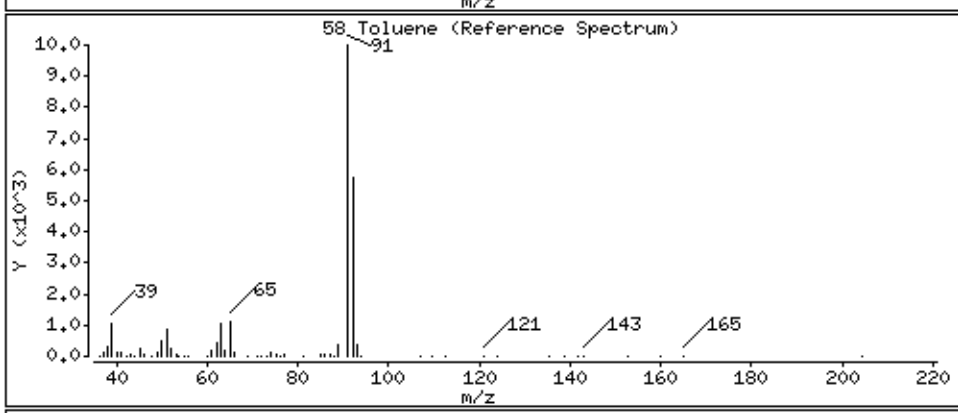
Concentration: 46.7 ppb

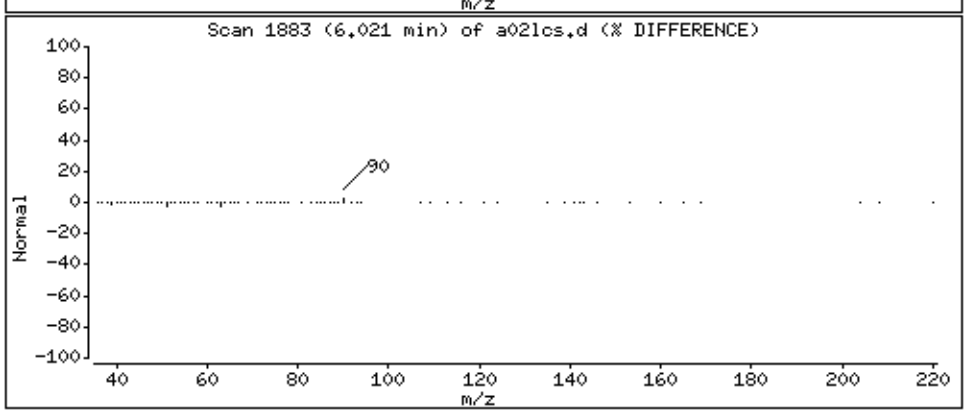












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

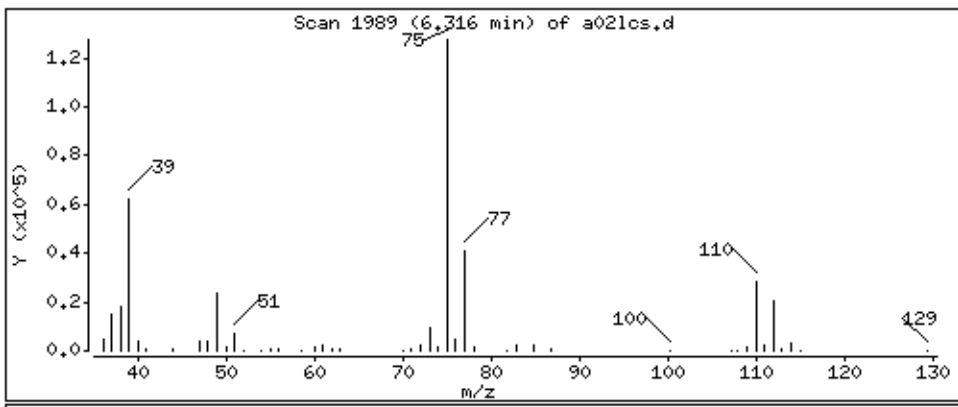
Operator: dae

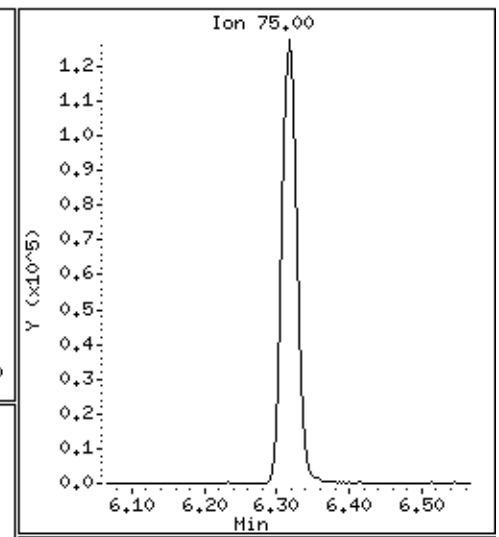
Column phase: DB-624

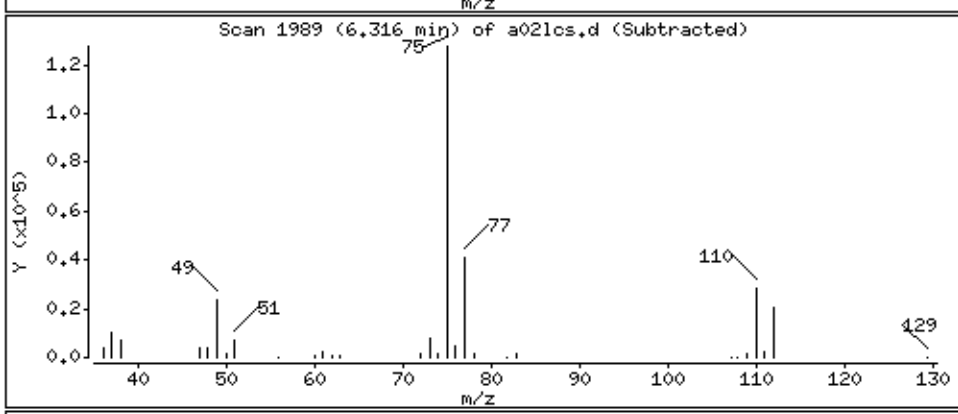
Column diameter: 0.18

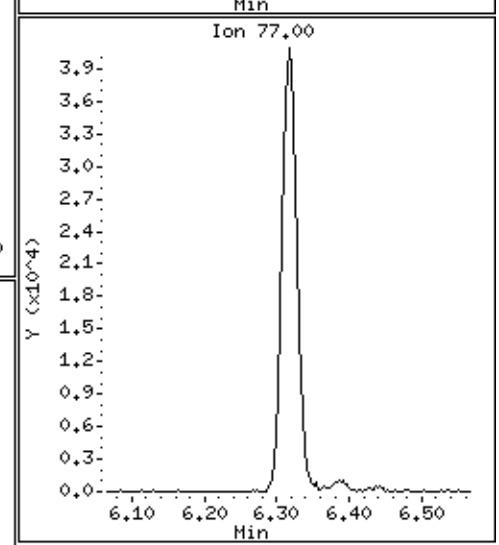
59 trans-1,3-Dichloropropene

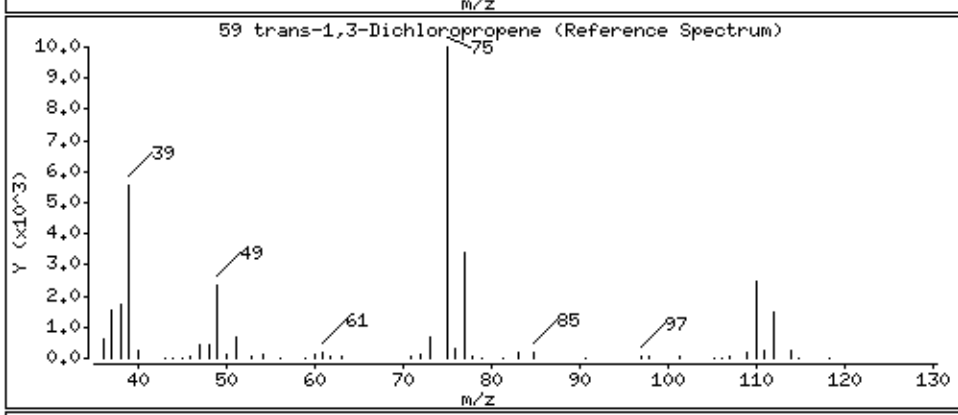
Concentration: 44.5 ppb

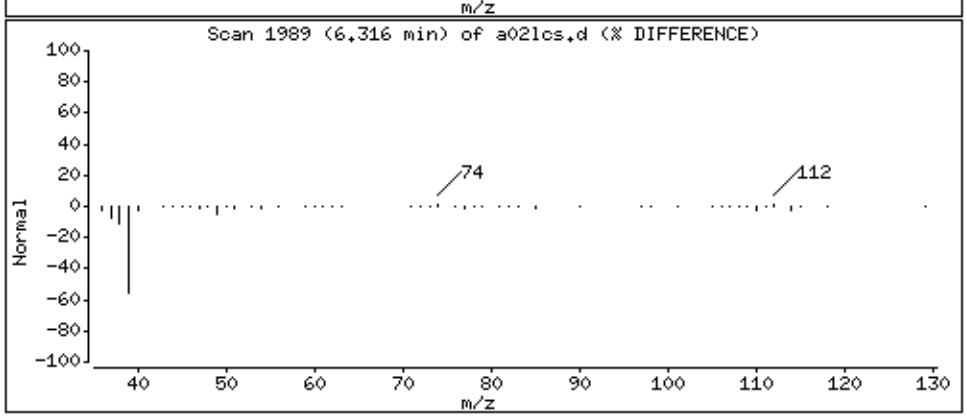












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

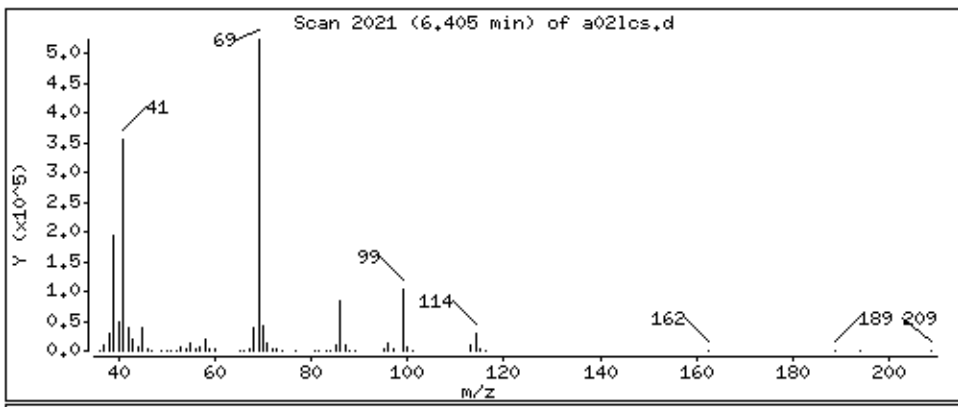
Operator: dae

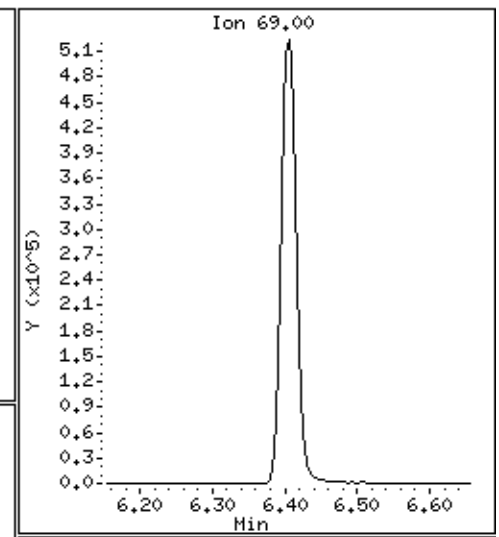
Column phase: DB-624

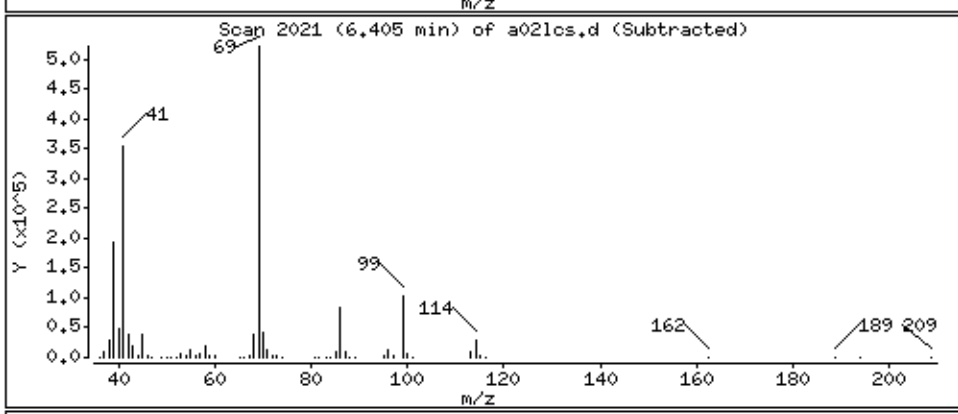
Column diameter: 0.18

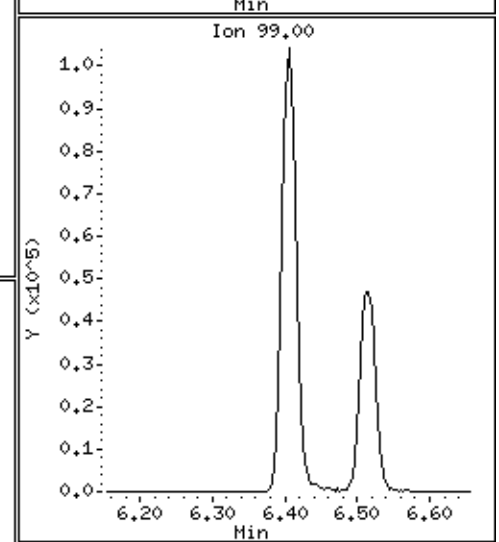
60 Ethyl Methacrylate

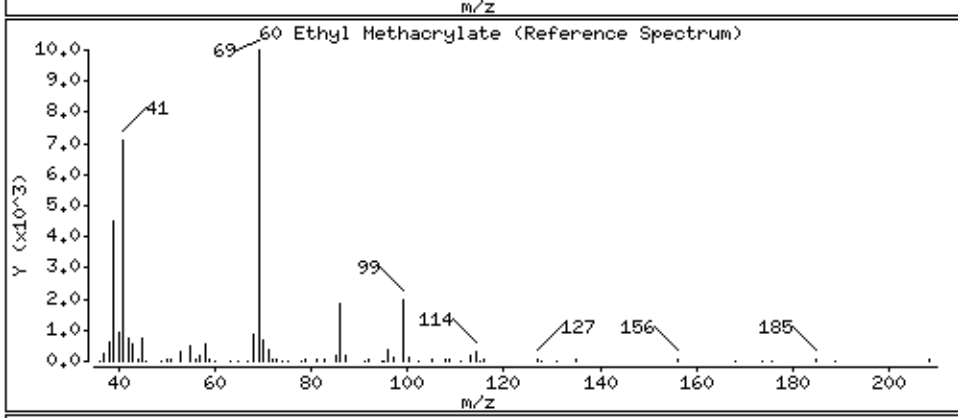
Concentration: 180 ppb

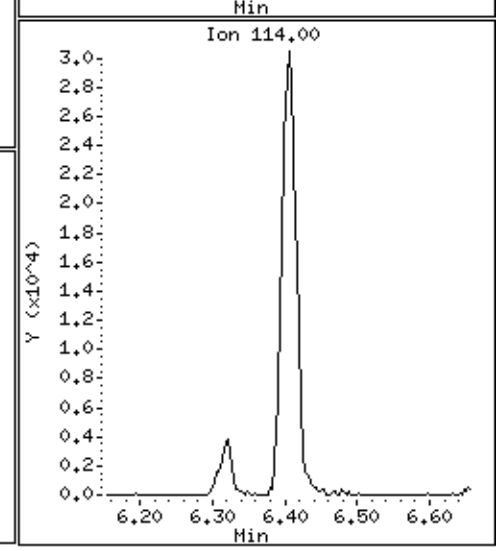


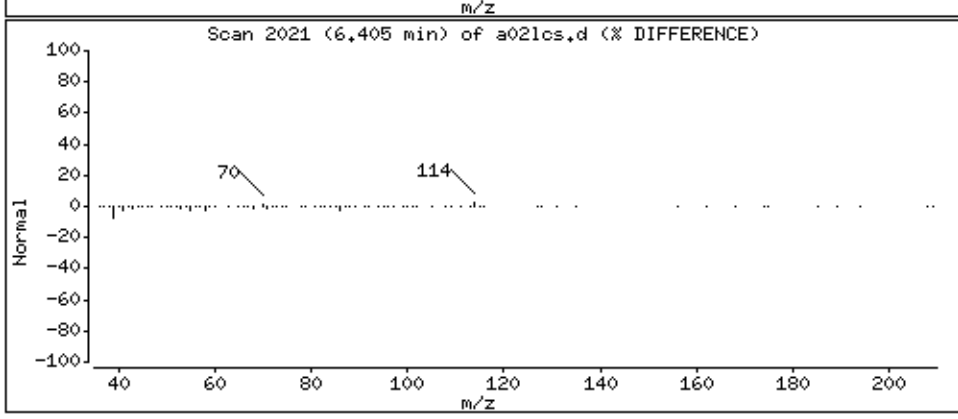












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

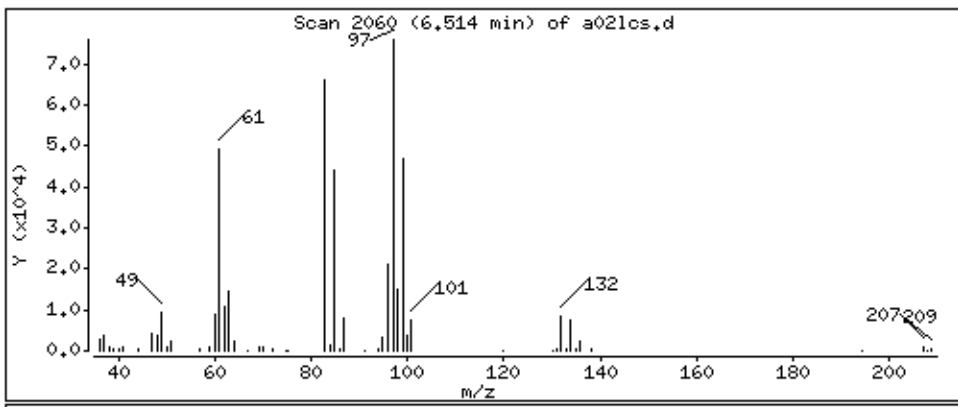
Operator: dae

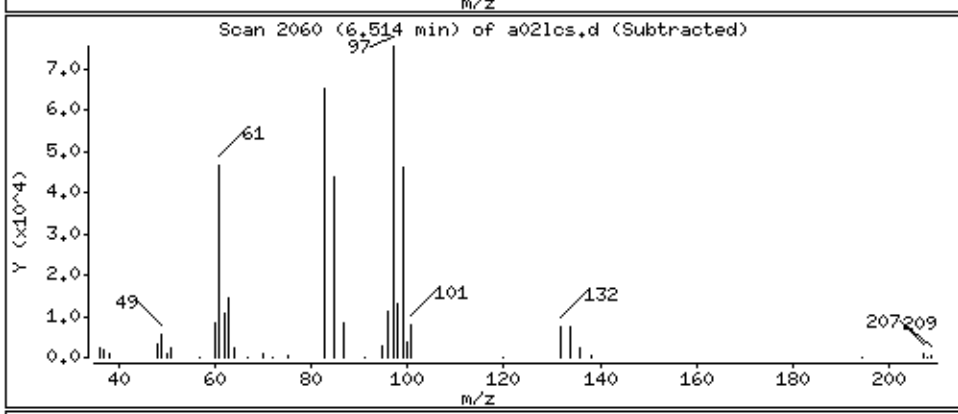
Column phase: DB-624

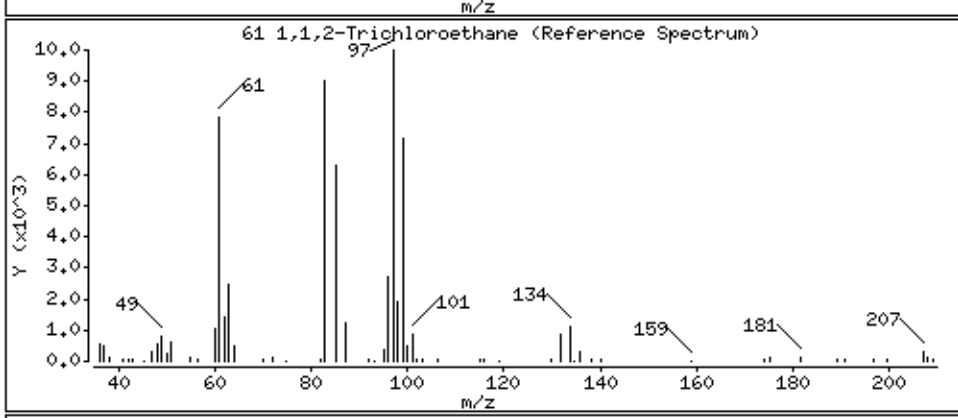
Column diameter: 0.18

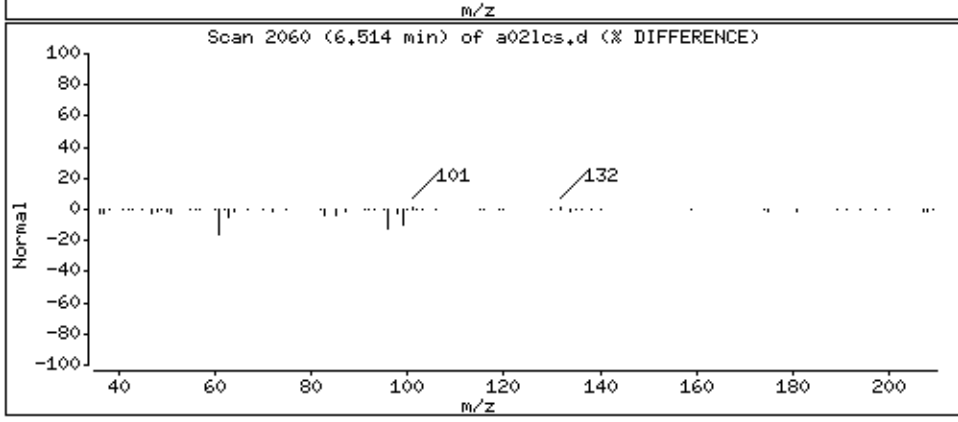
61 1,1,2-Trichloroethane

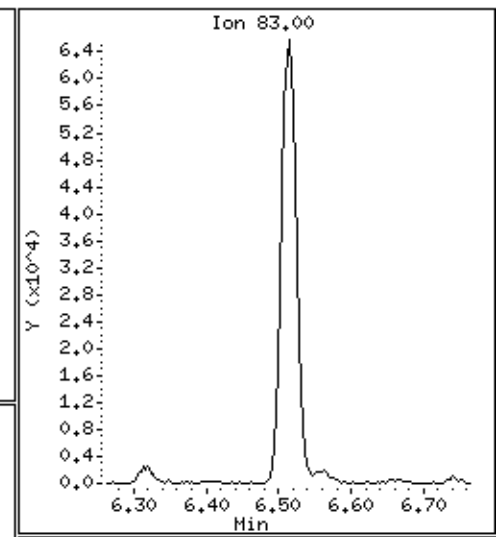
Concentration: 45.0 ppb

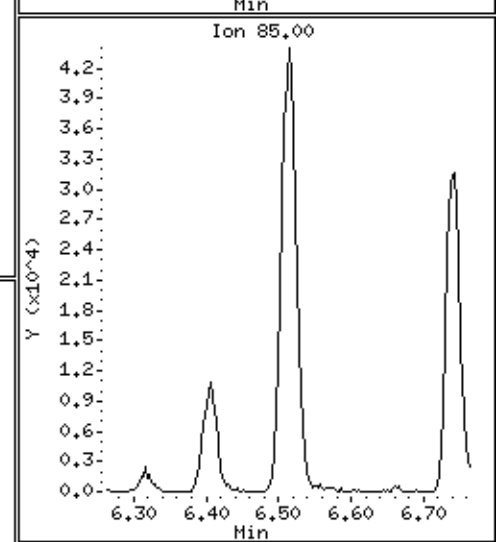


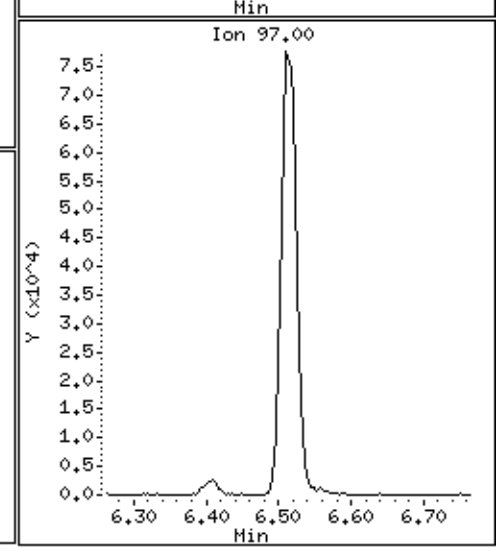












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

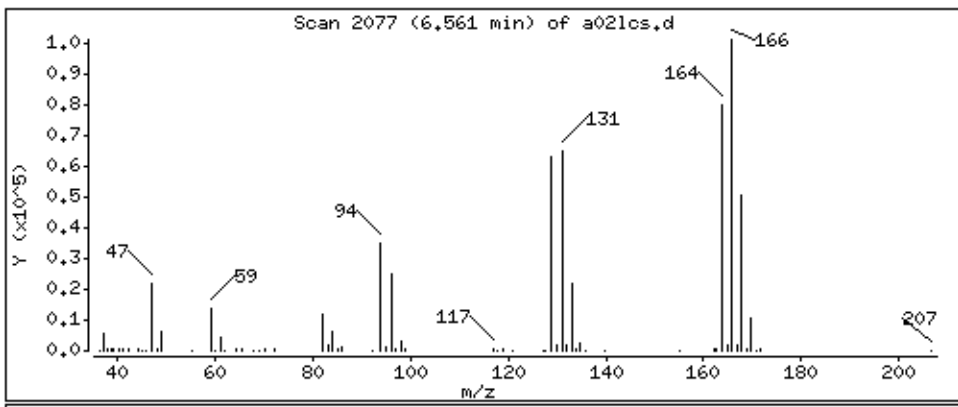
Operator: dae

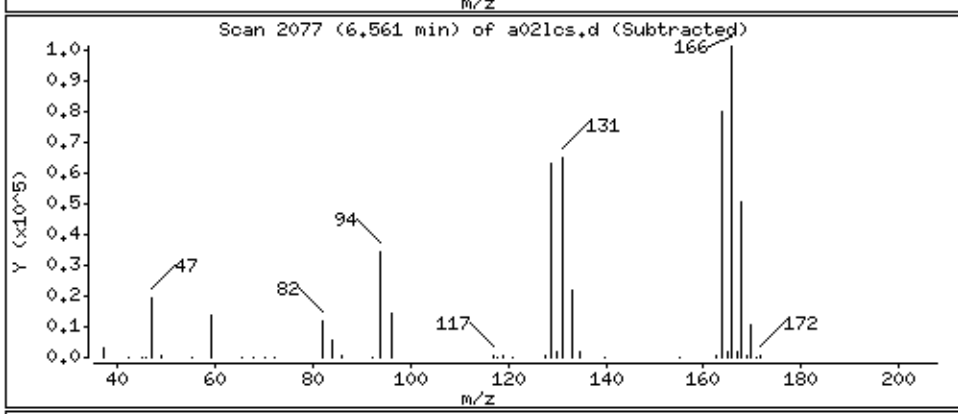
Column phase: DB-624

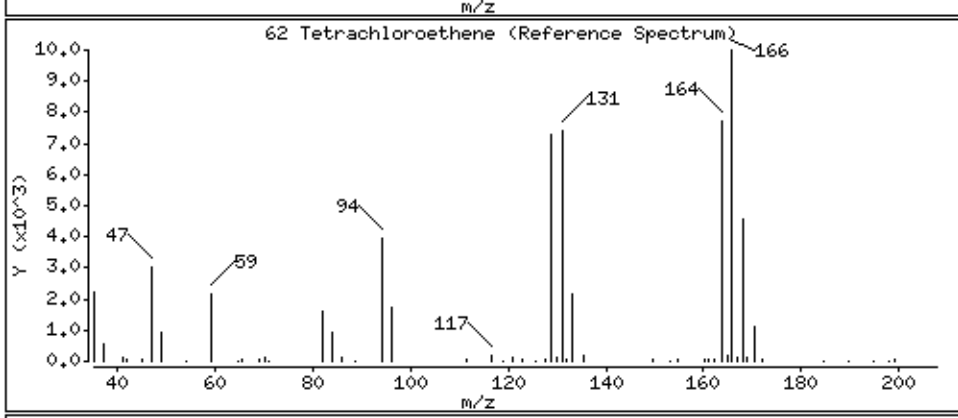
Column diameter: 0.18

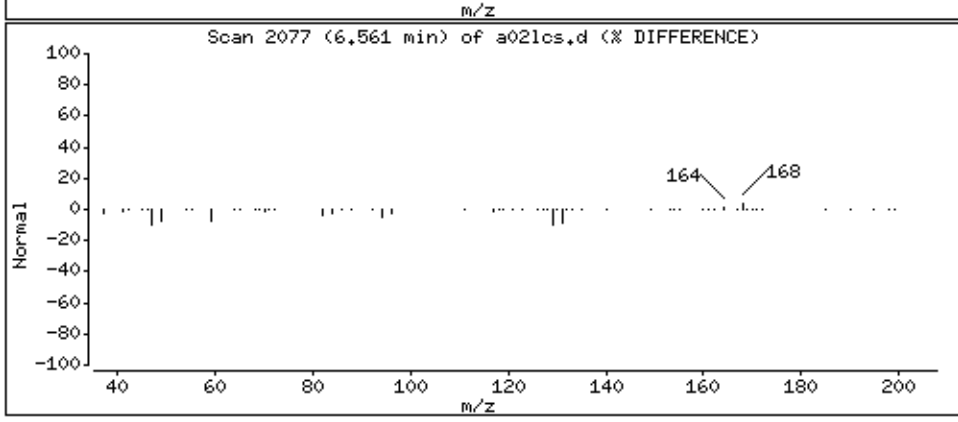
62 Tetrachloroethene

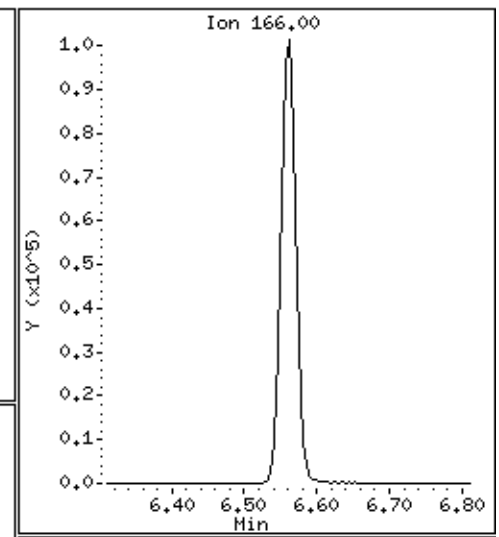
Concentration: 40.0 ppb

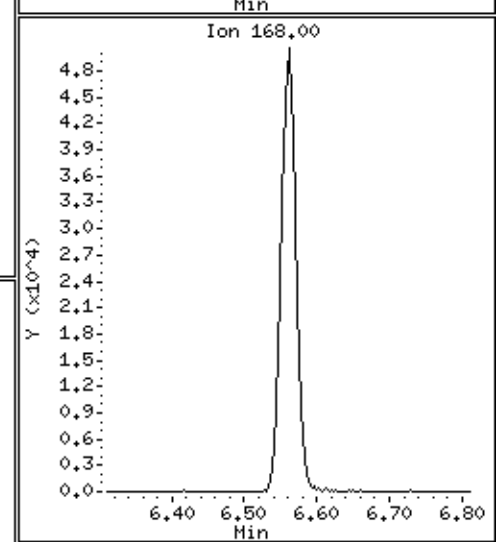


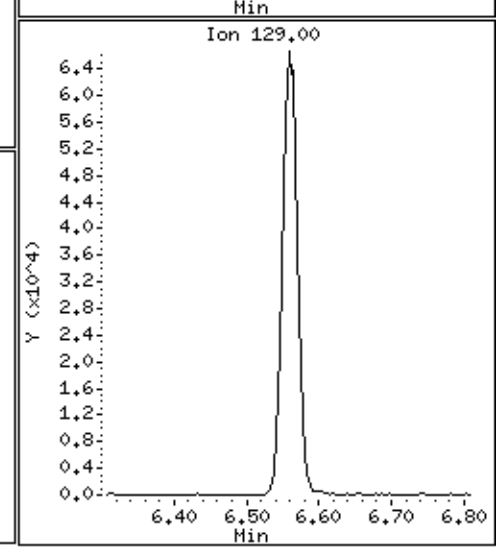












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

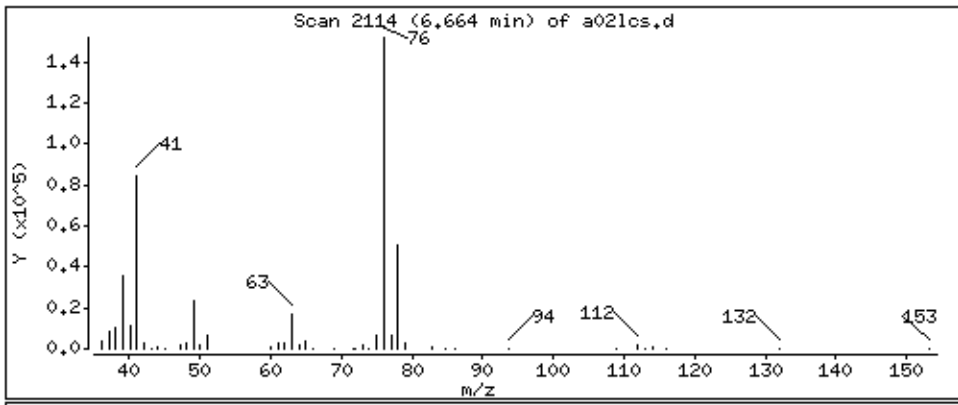
Operator: dae

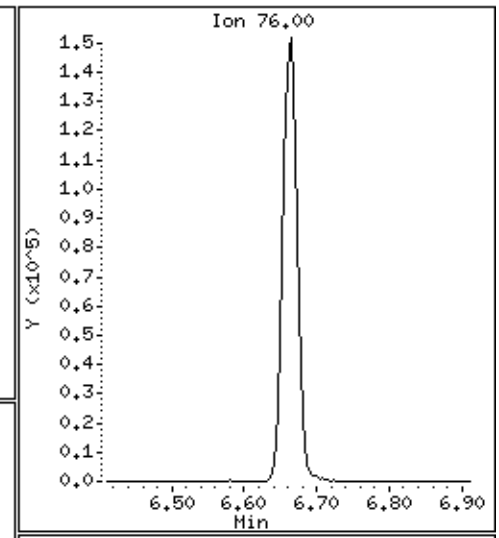
Column phase: DB-624

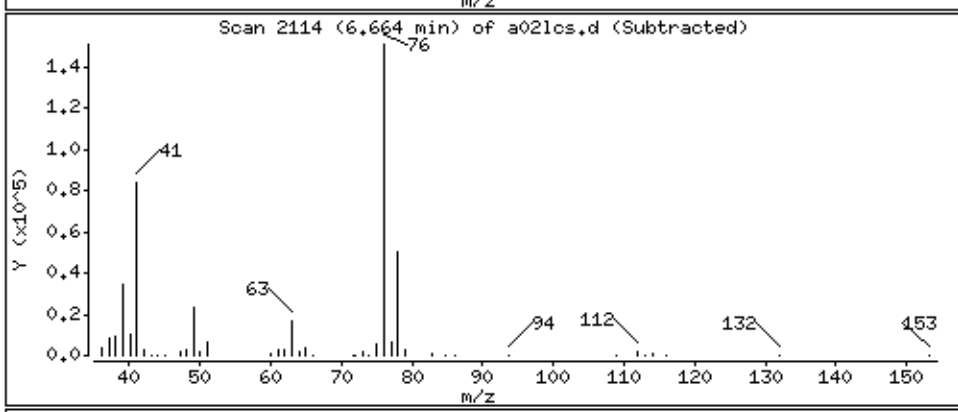
Column diameter: 0.18

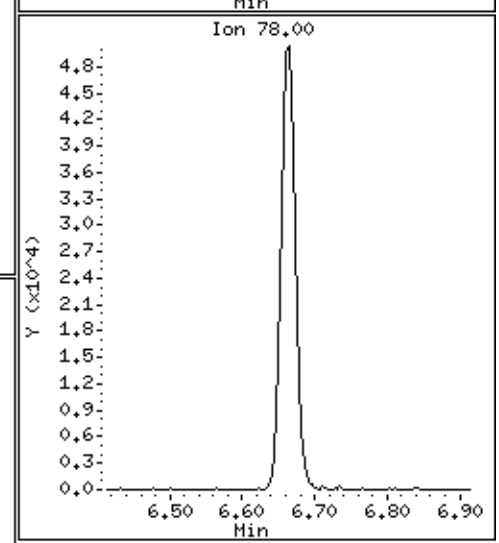
63 1,3-Dichloropropane

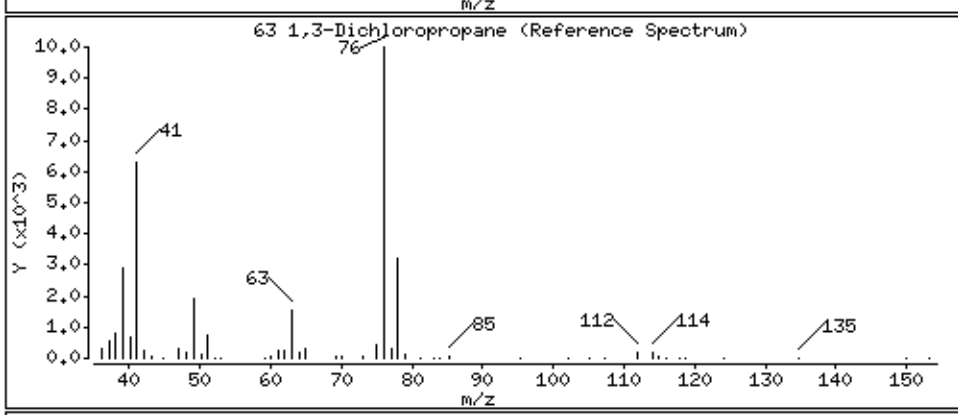
Concentration: 47.6 ppb

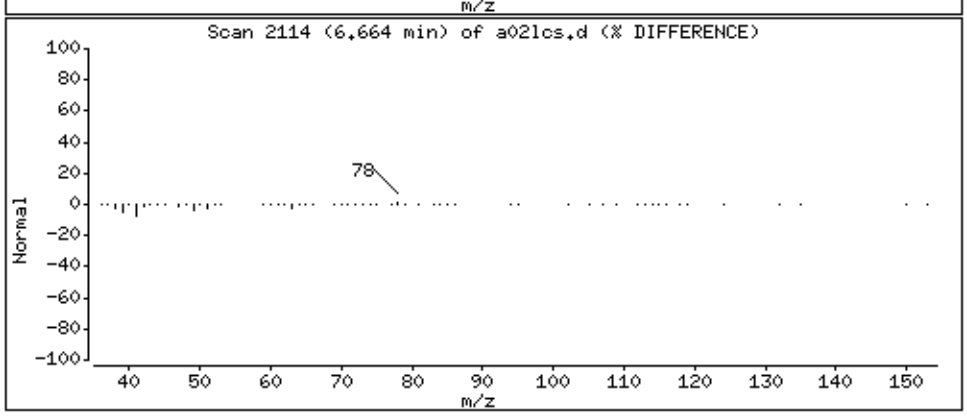












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

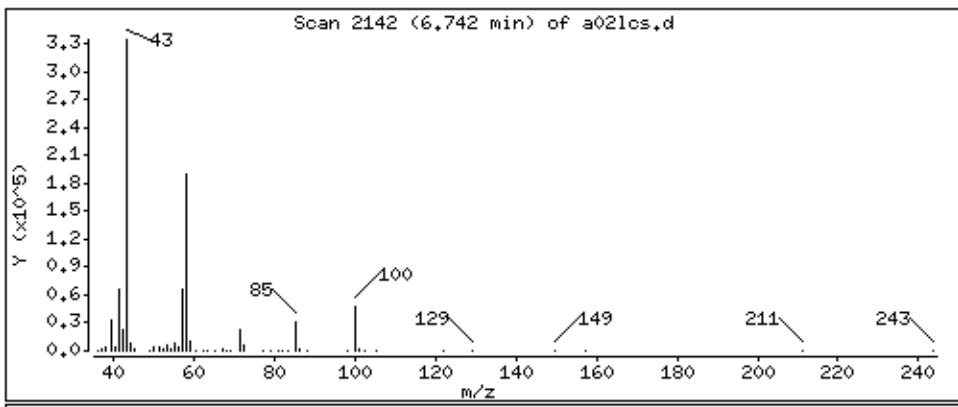
Operator: dae

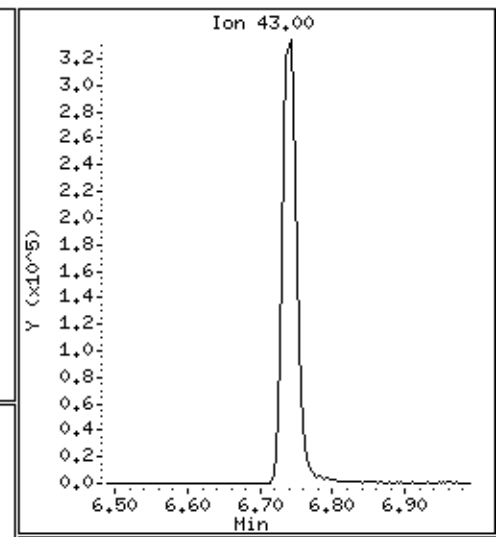
Column phase: DB-624

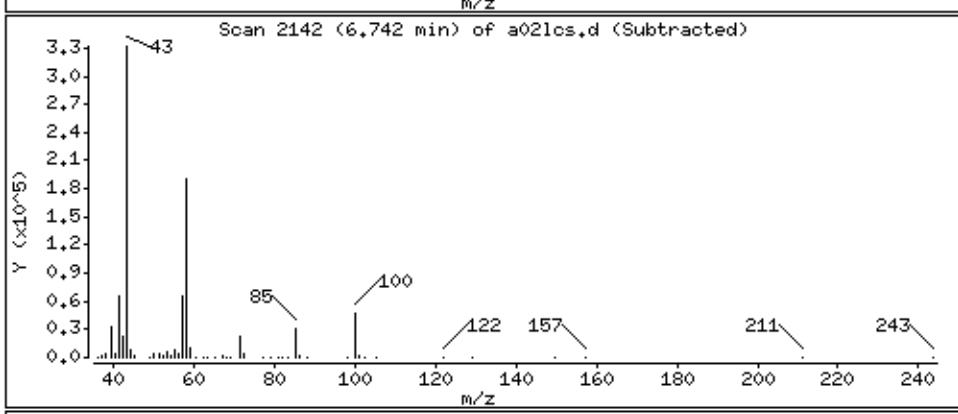
Column diameter: 0.18

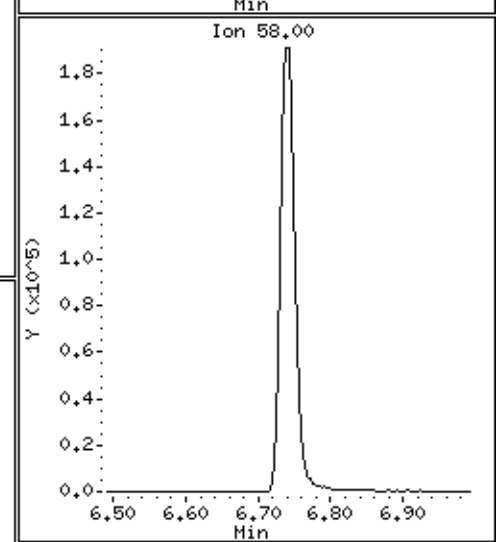
64 2-Hexanone

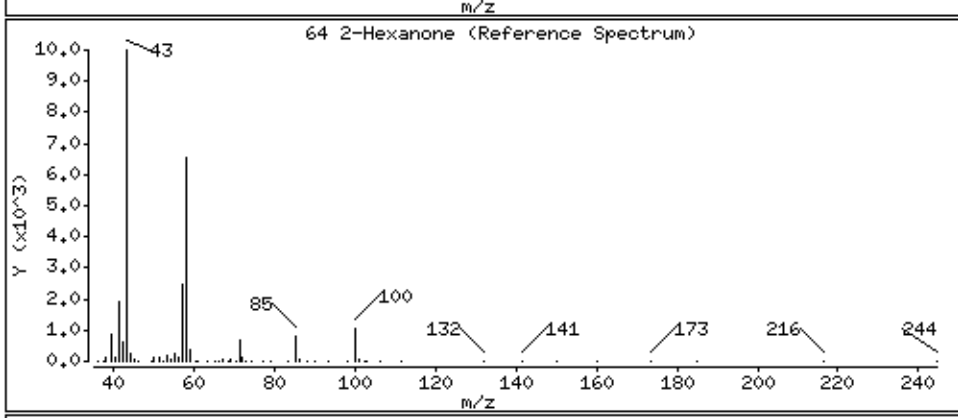
Concentration: 224 ppb

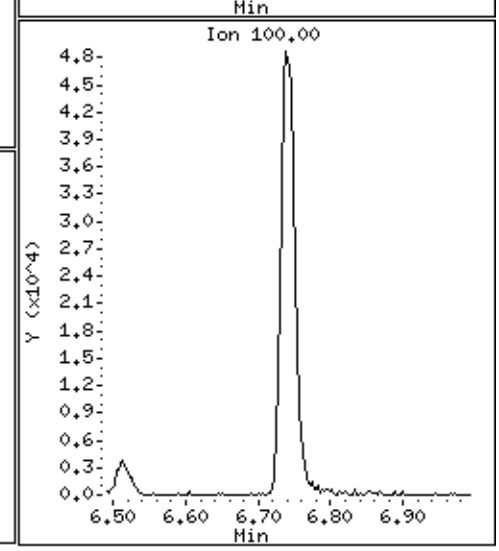


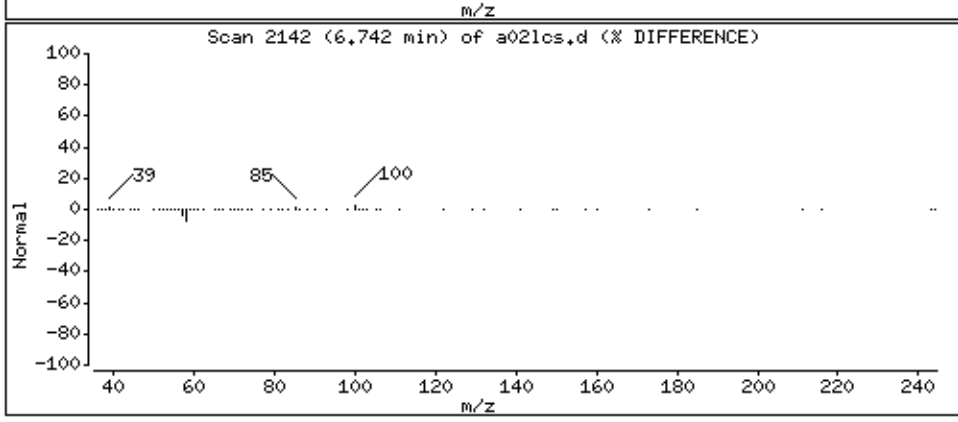












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

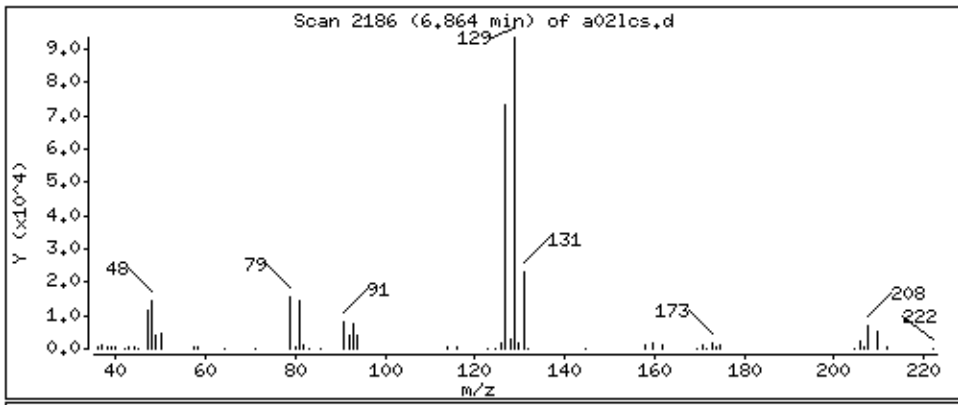
Operator: dae

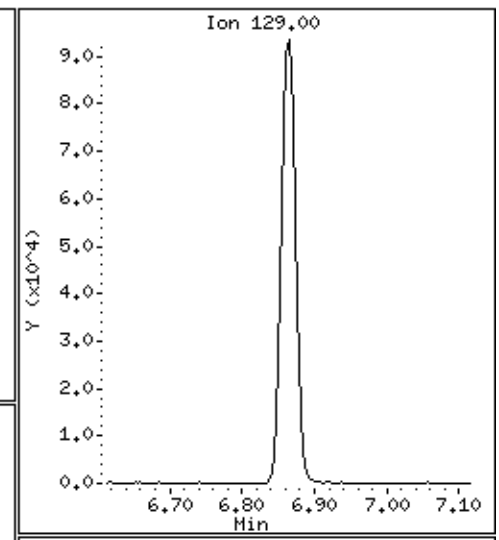
Column phase: DB-624

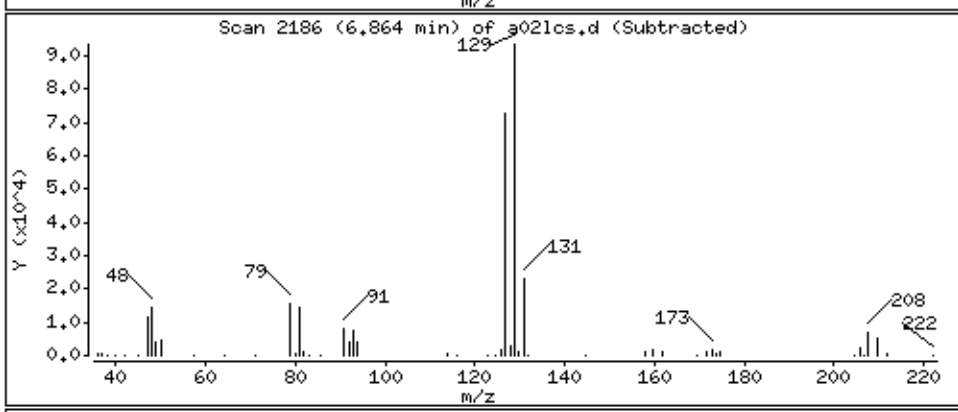
Column diameter: 0.18

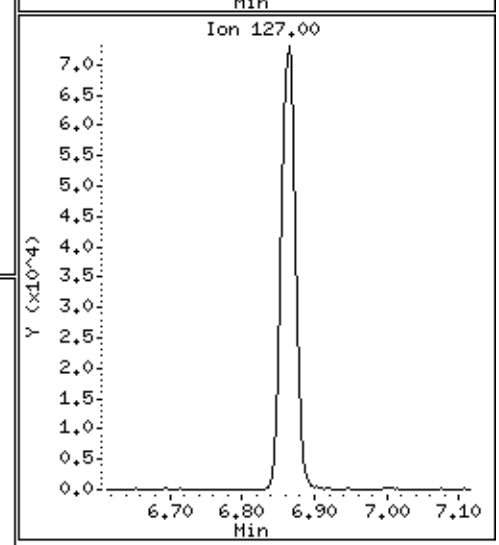
65 Dibromochloromethane

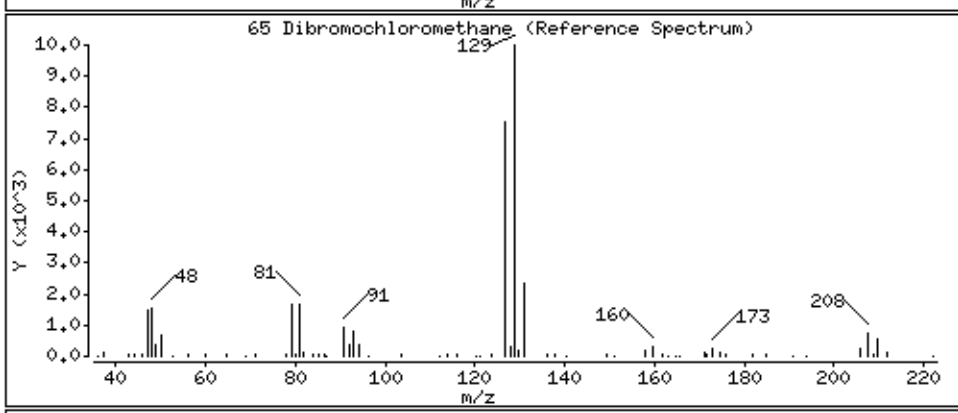
Concentration: 42.7 ppb

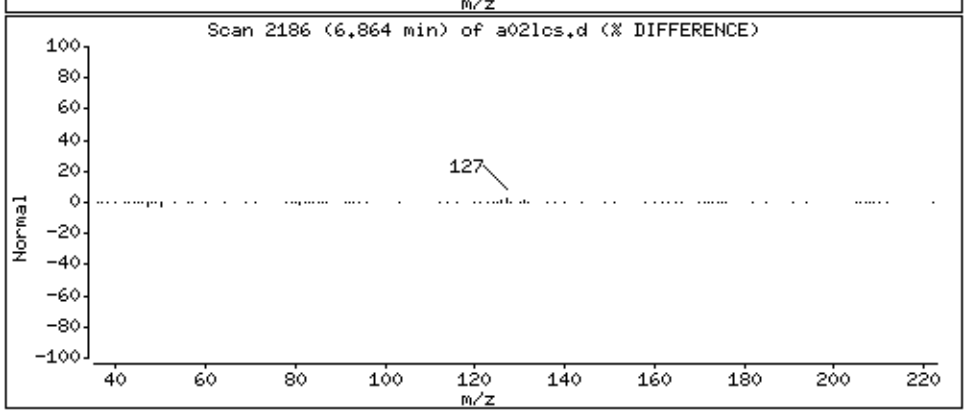












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

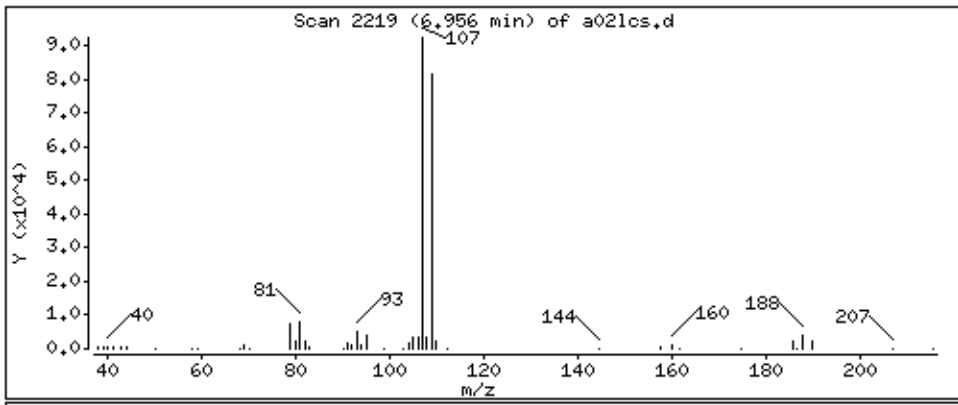
Operator: dae

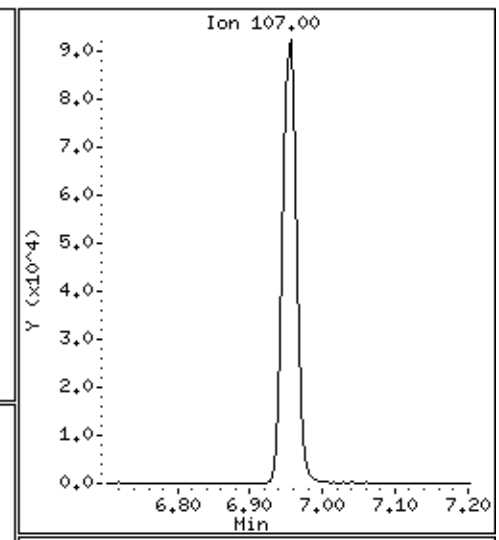
Column phase: DB-624

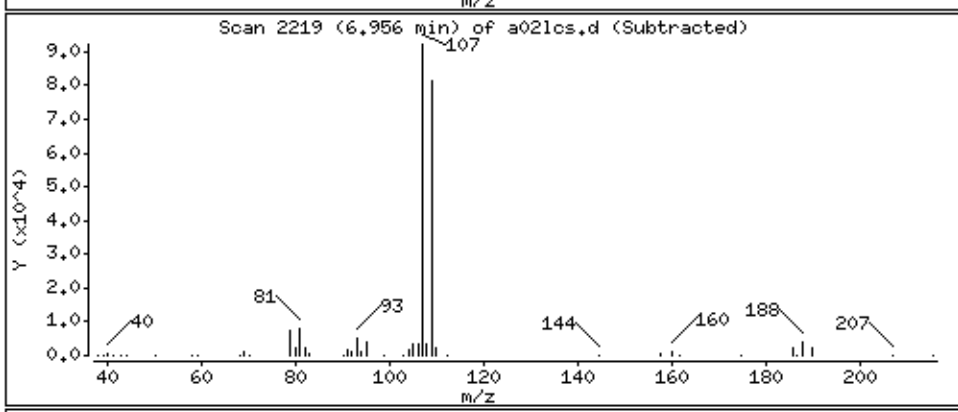
Column diameter: 0.18

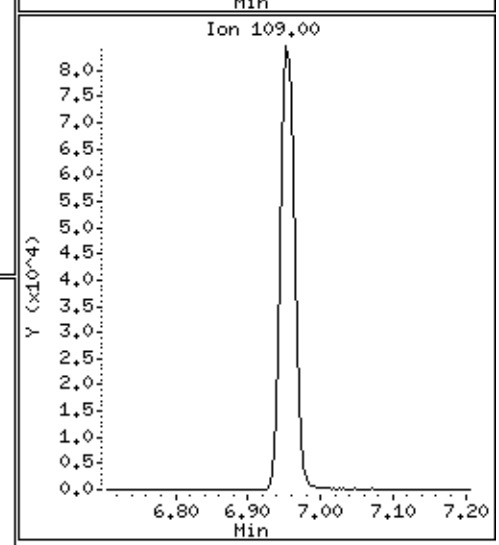
66 1,2-Dibromoethane

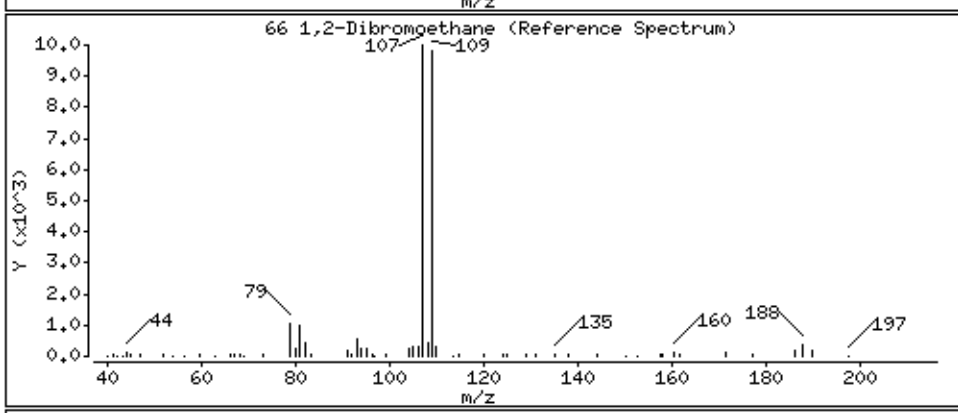
Concentration: 46.1 ppb

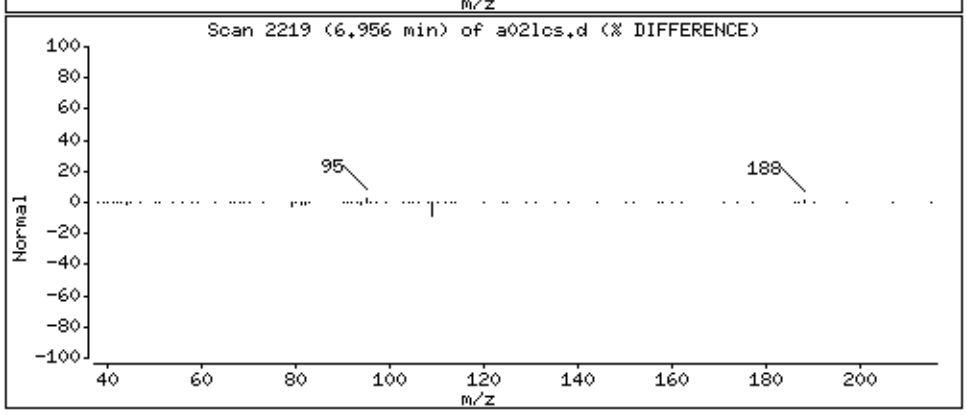












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

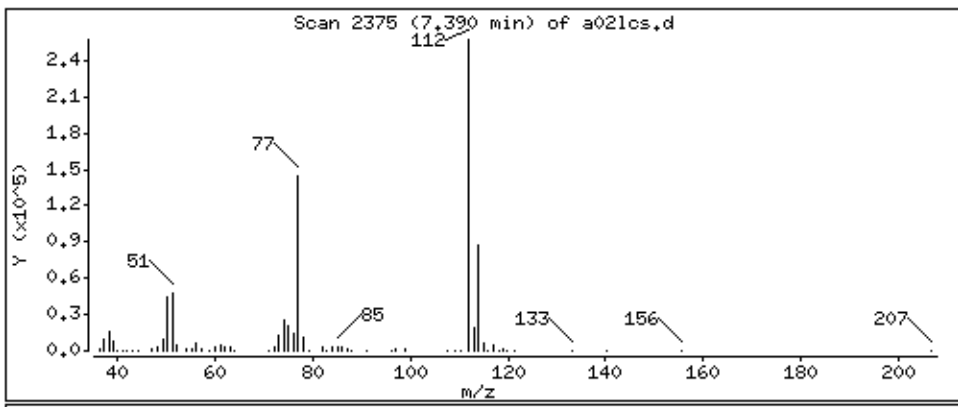
Operator: dae

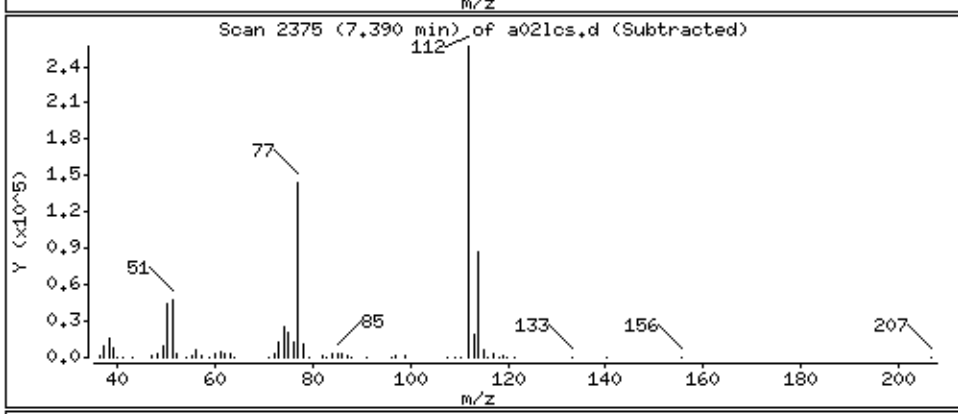
Column phase: DB-624

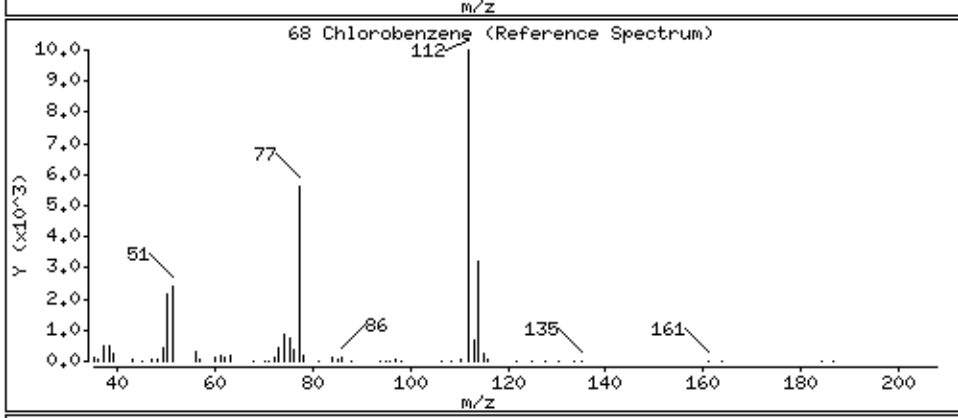
Column diameter: 0.18

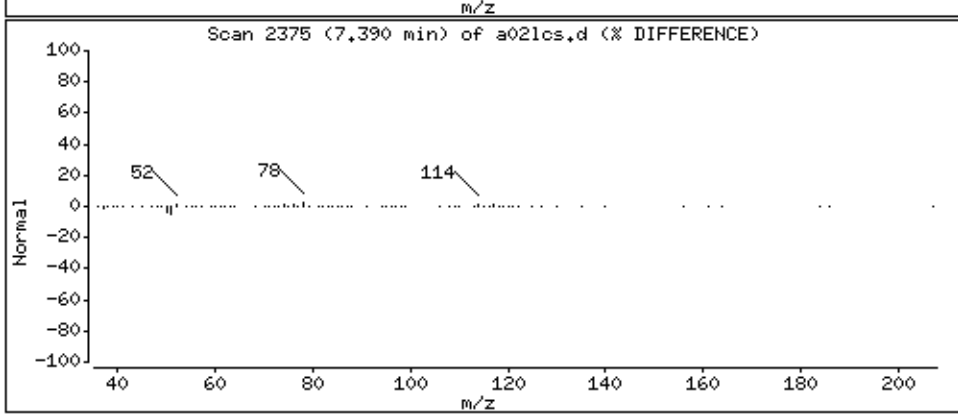
68 Chlorobenzene

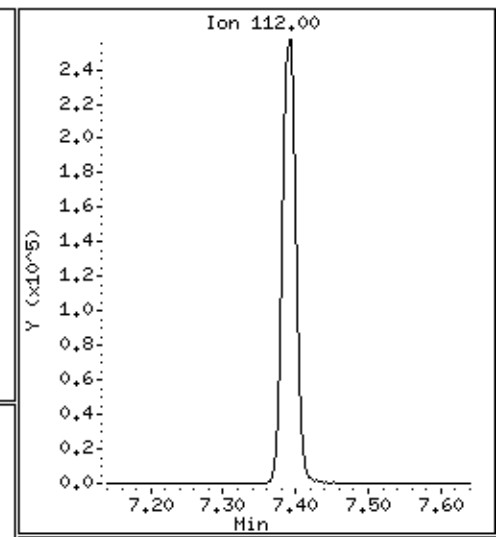
Concentration: 44.8 ppb

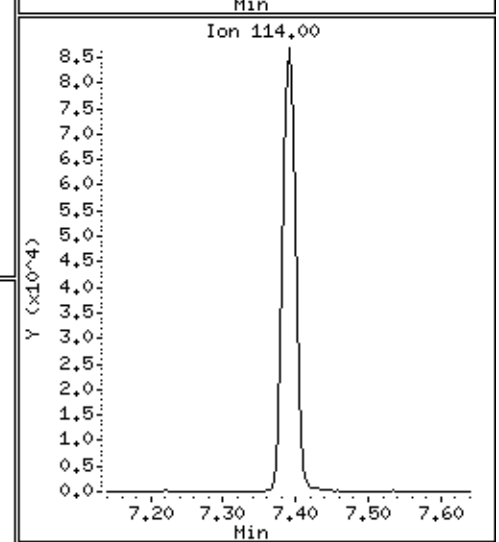


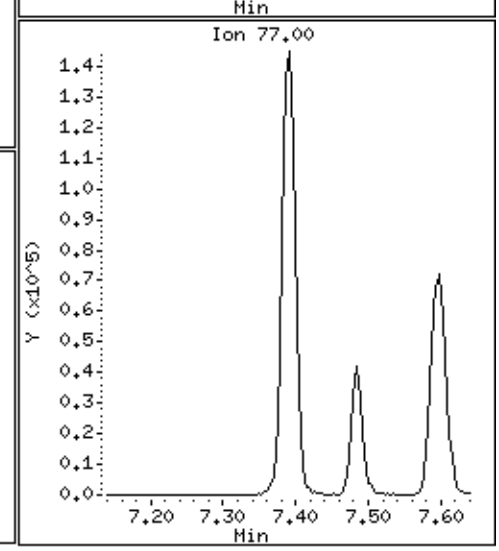












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

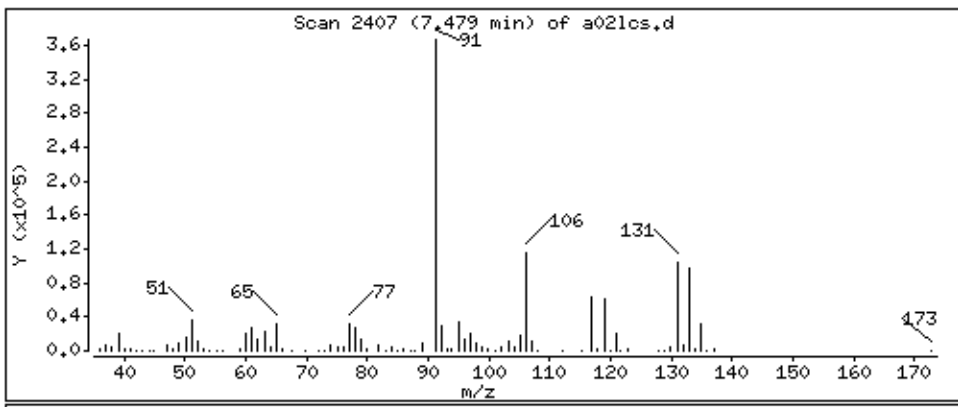
Operator: dae

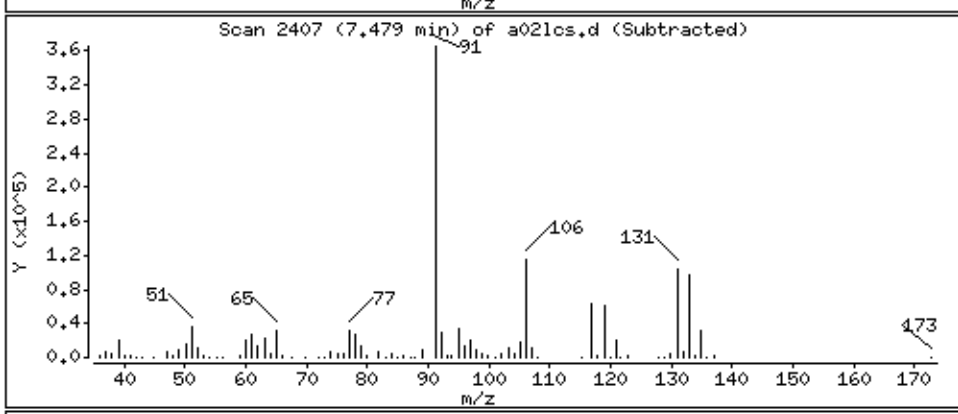
Column phase: DB-624

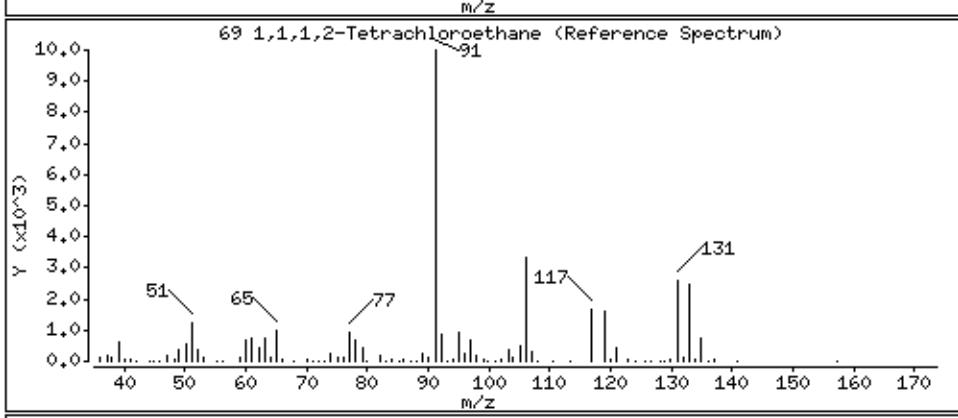
Column diameter: 0.18

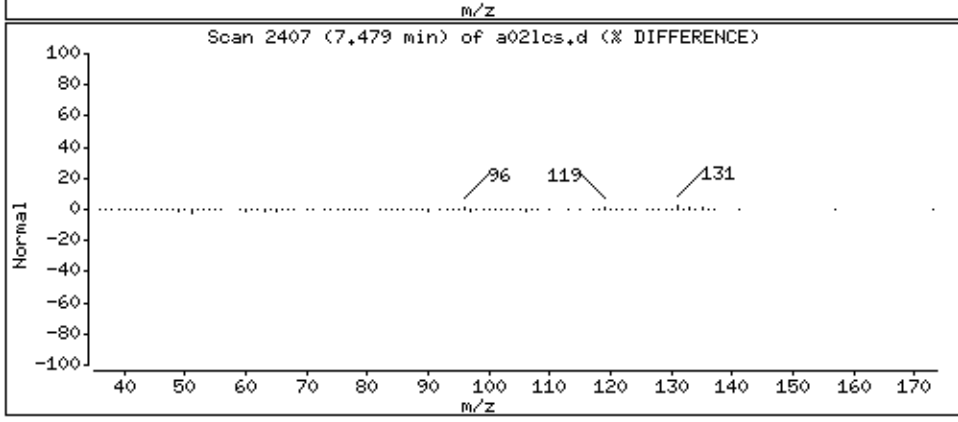
69 1,1,1,2-Tetrachloroethane

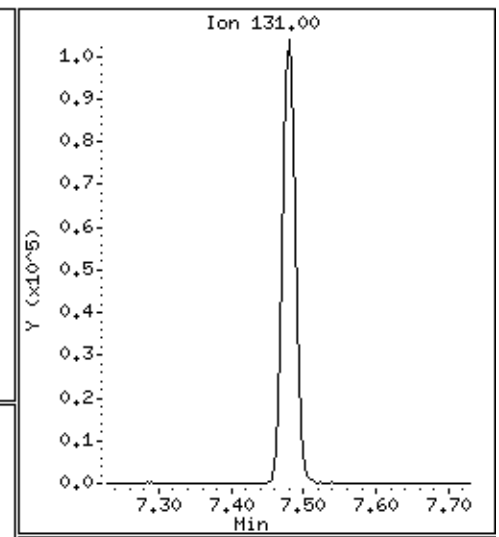
Concentration: 45.4 ppb

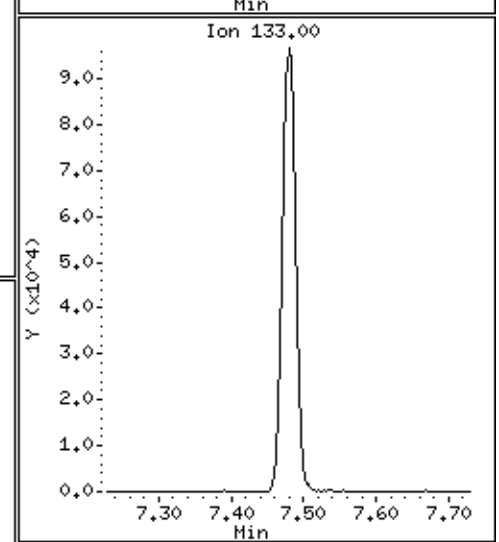


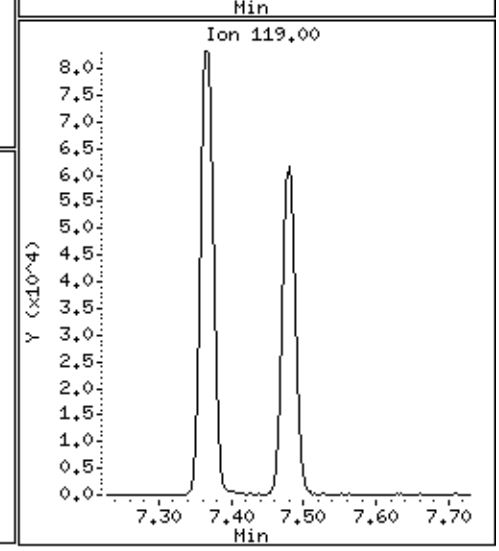












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

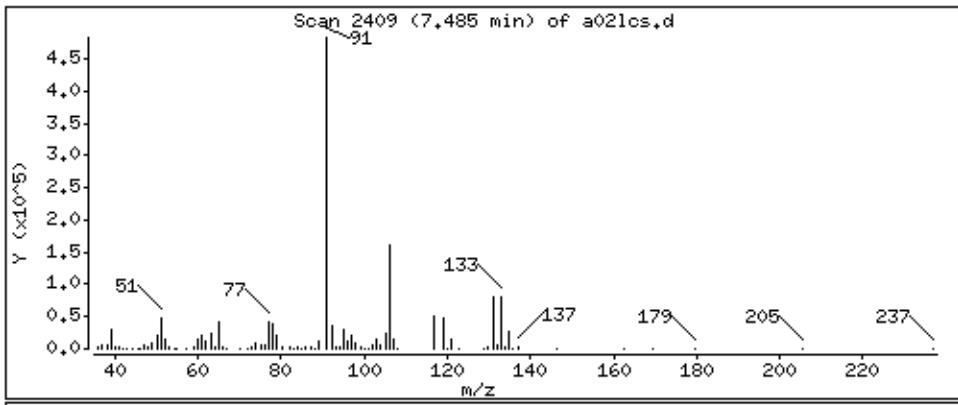
Operator: dae

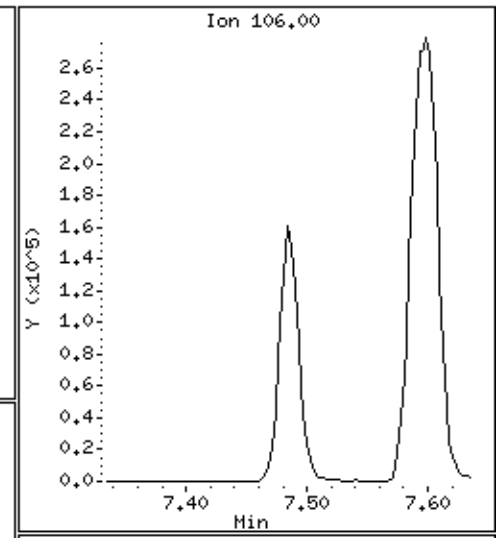
Column phase: DB-624

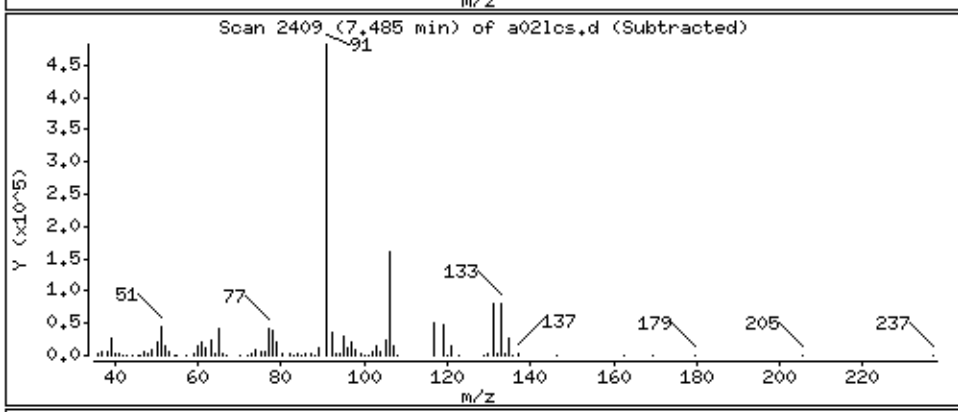
Column diameter: 0.18

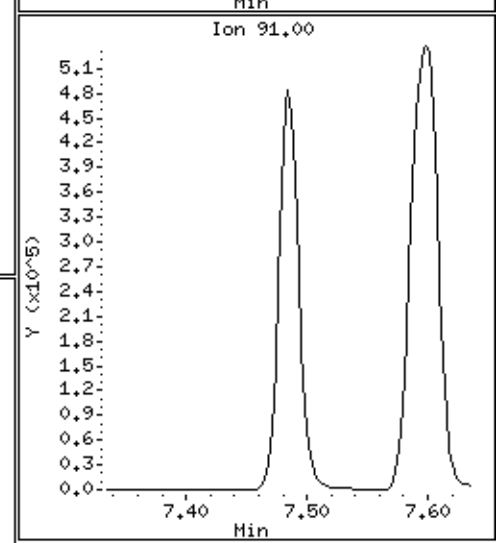
70 Ethylbenzene

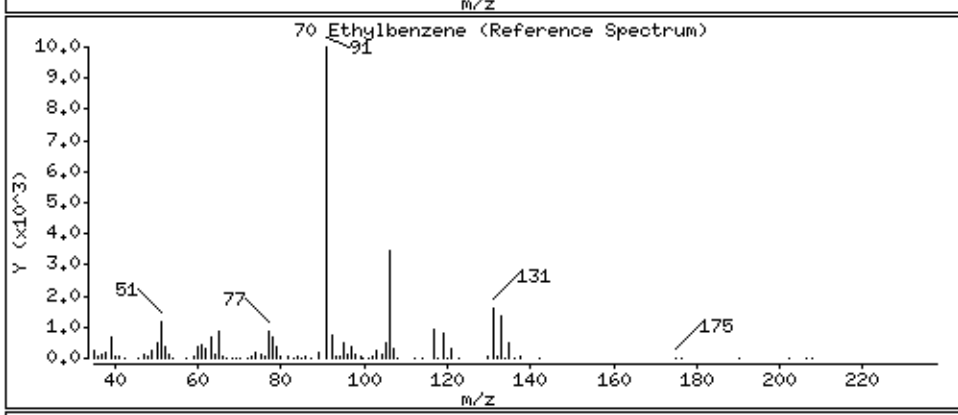
Concentration: 46.7 ppb

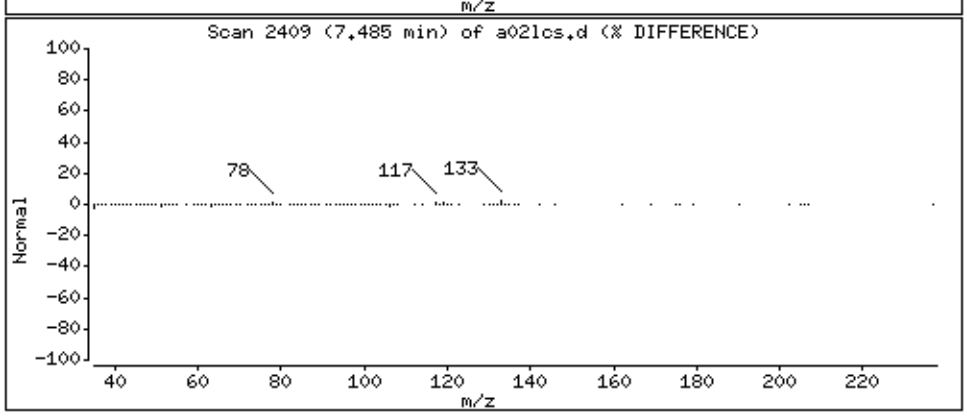












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

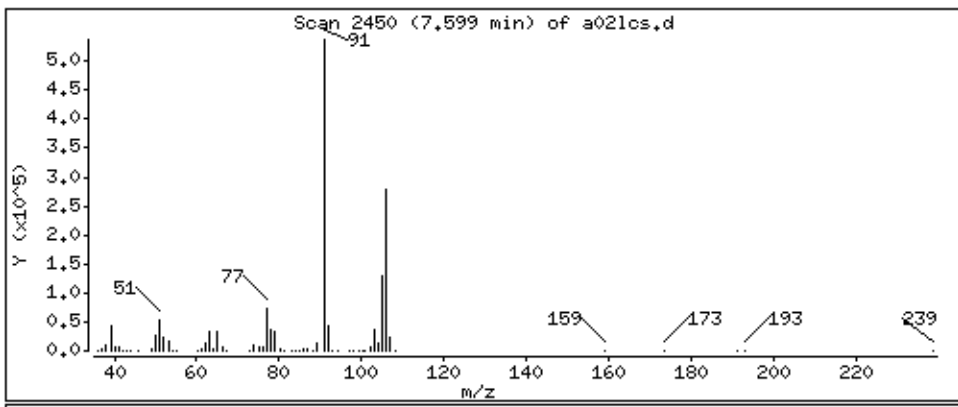
Operator: dae

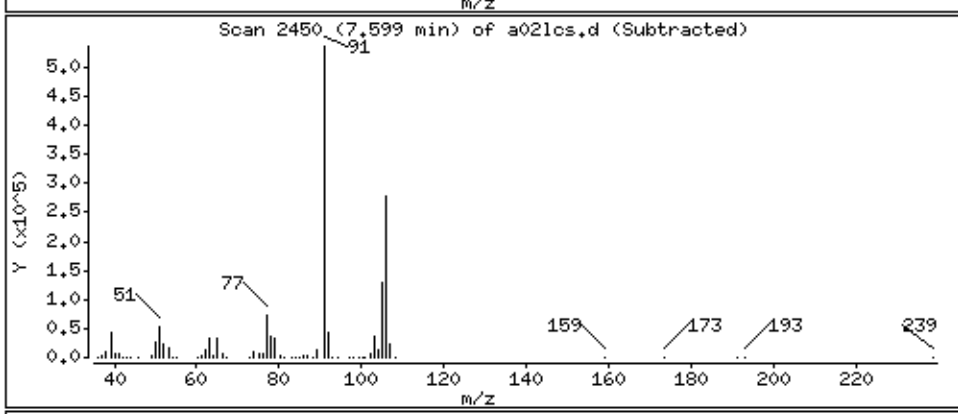
Column phase: DB-624

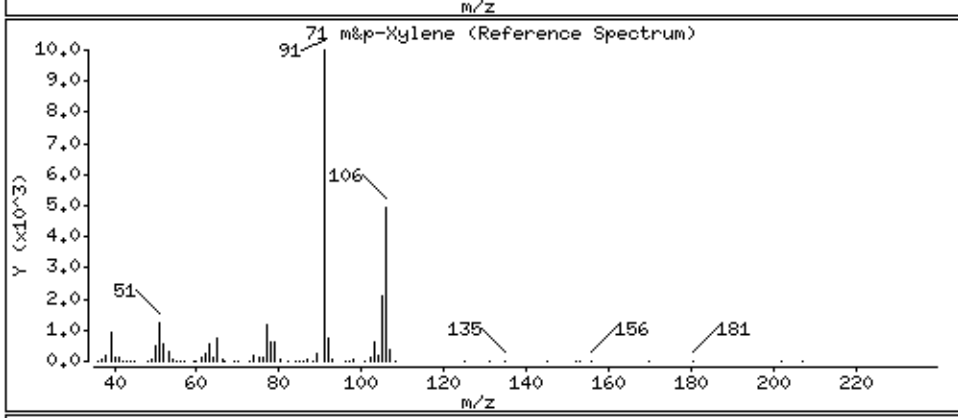
Column diameter: 0.18

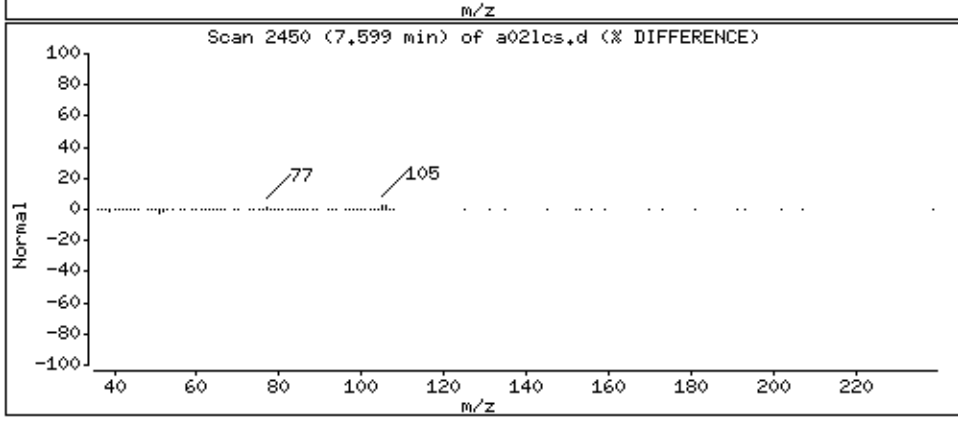
71 m&p-Xylene

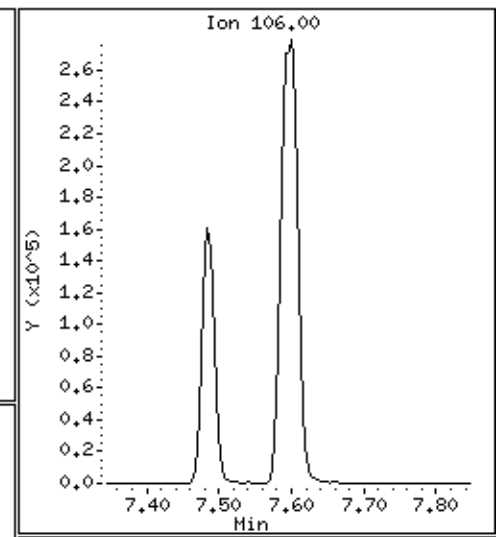
Concentration: 93.2 ppb

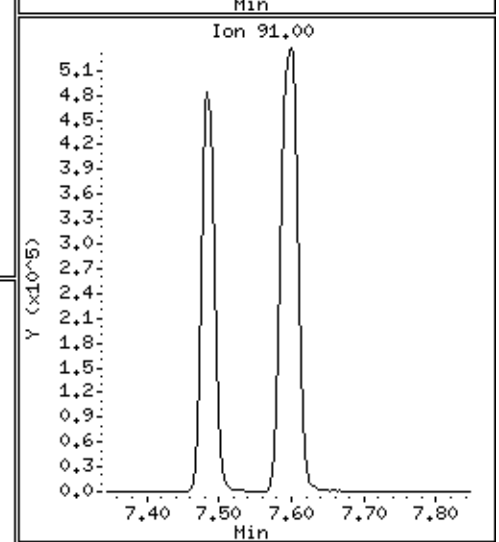


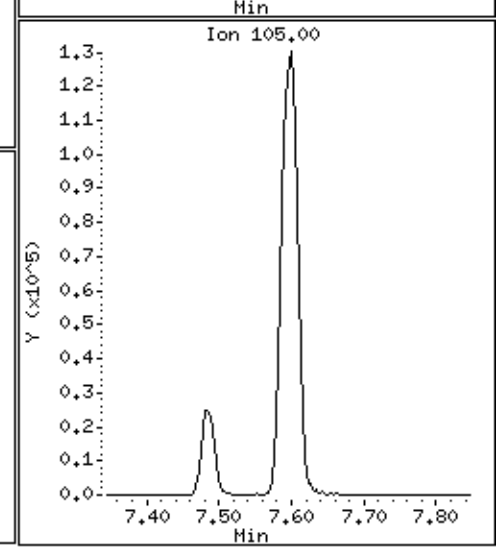












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

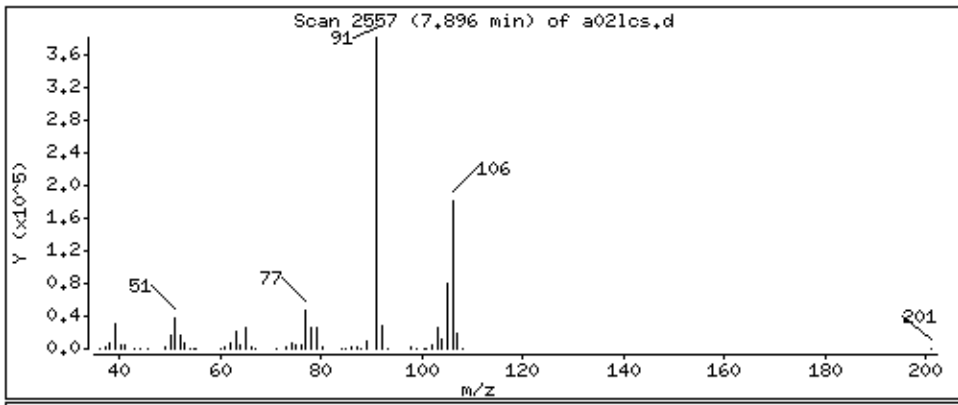
Operator: dae

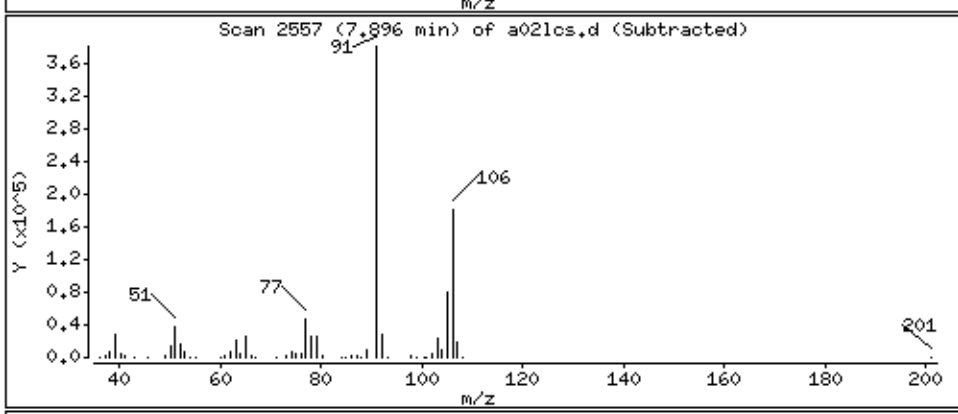
Column phase: DB-624

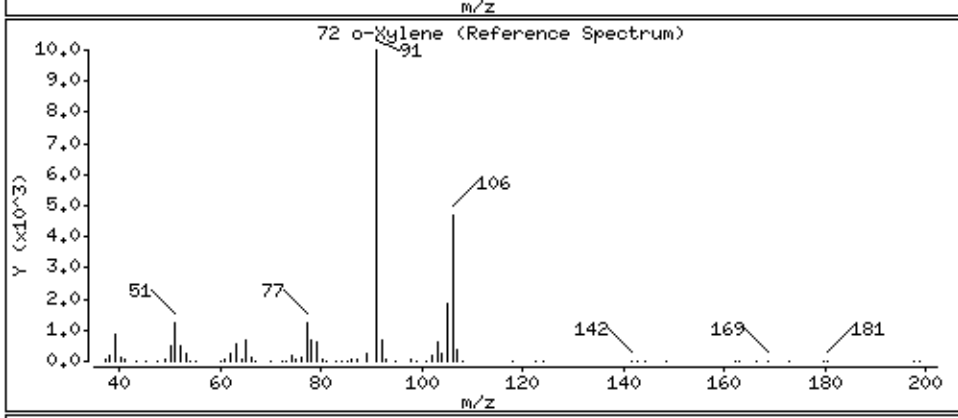
Column diameter: 0.18

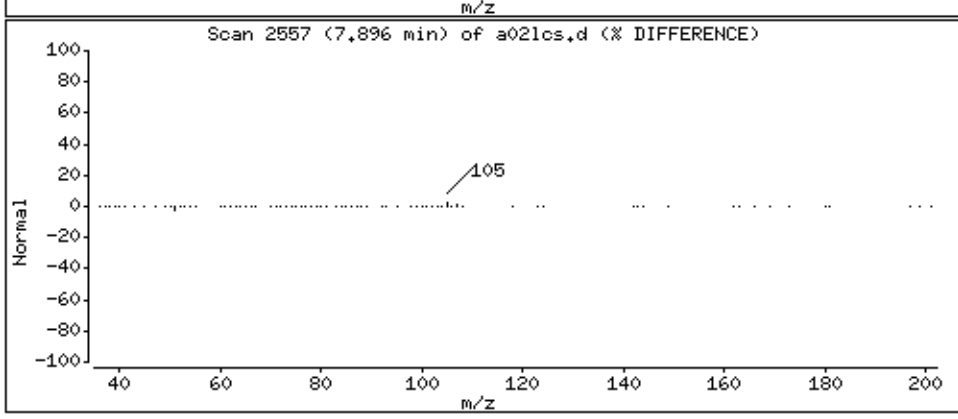
72 o-Xylene

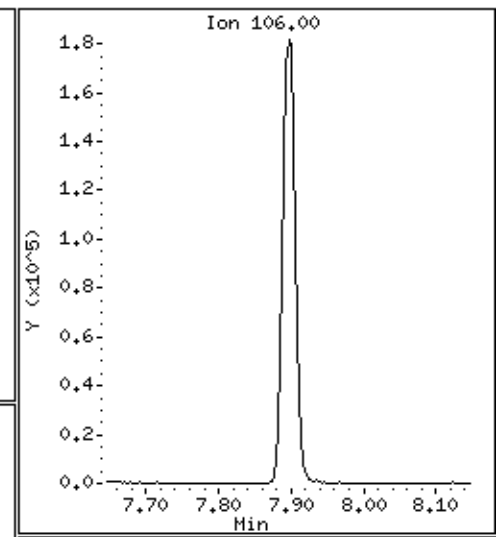
Concentration: 47.9 ppb

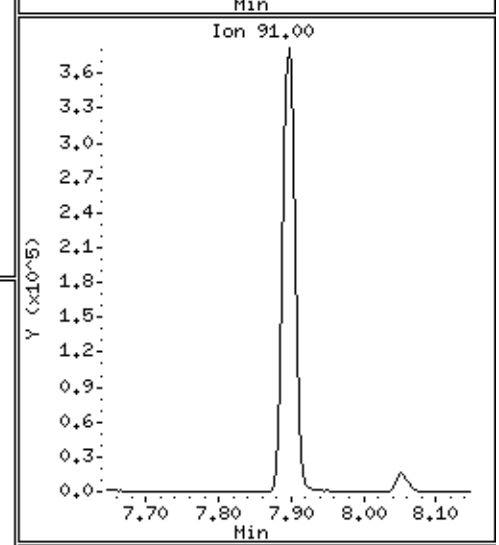


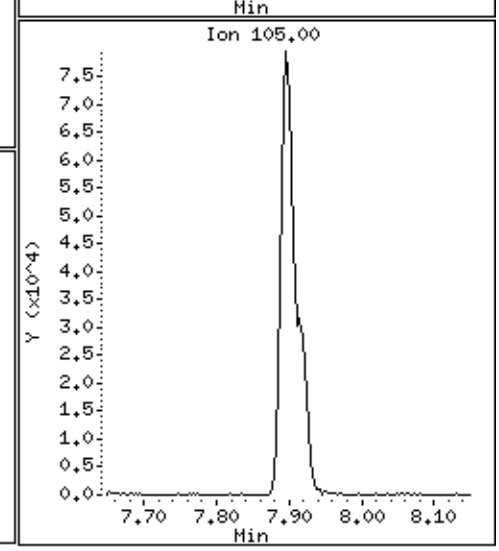












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

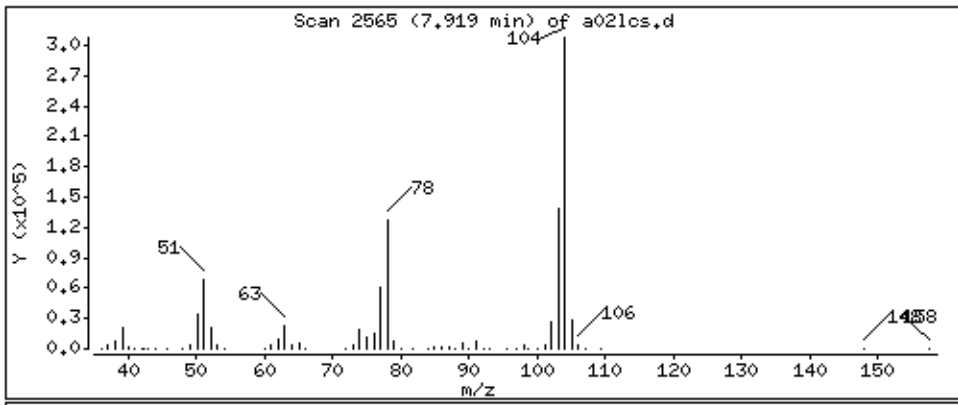
Operator: dae

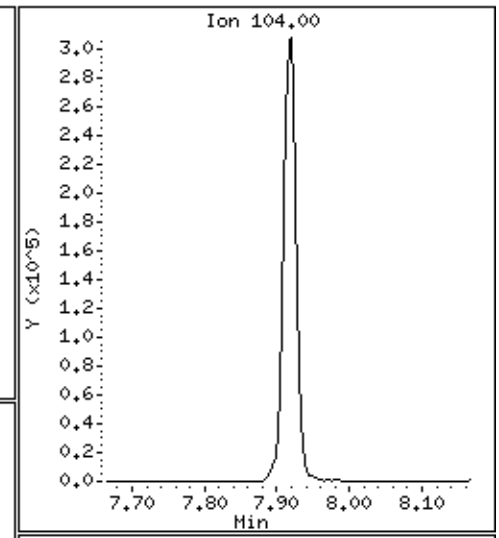
Column phase: DB-624

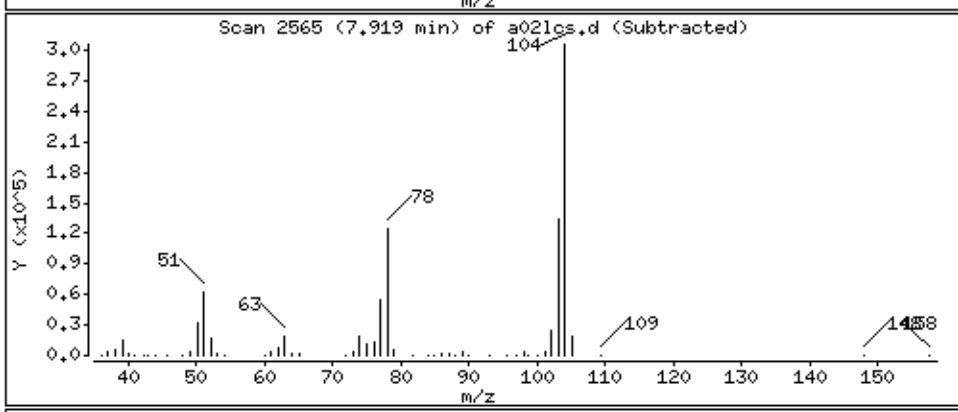
Column diameter: 0.18

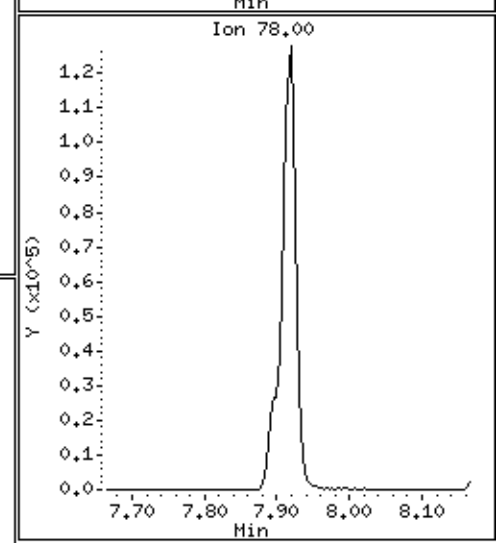
73 Styrene

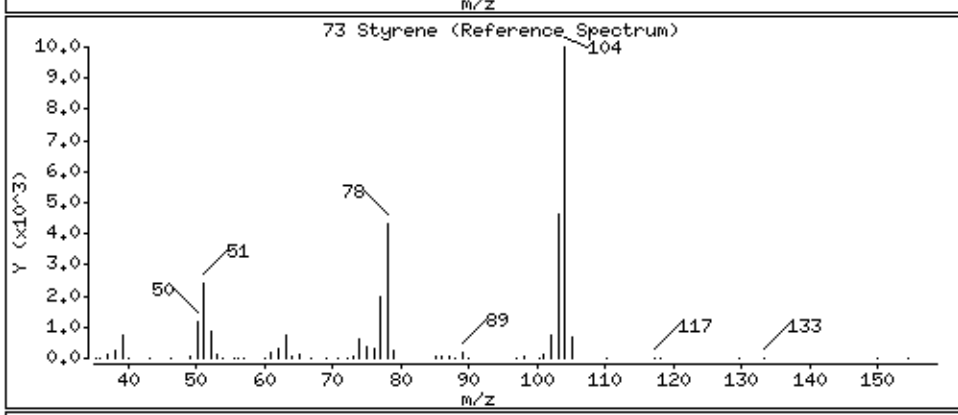
Concentration: 46.9 ppb

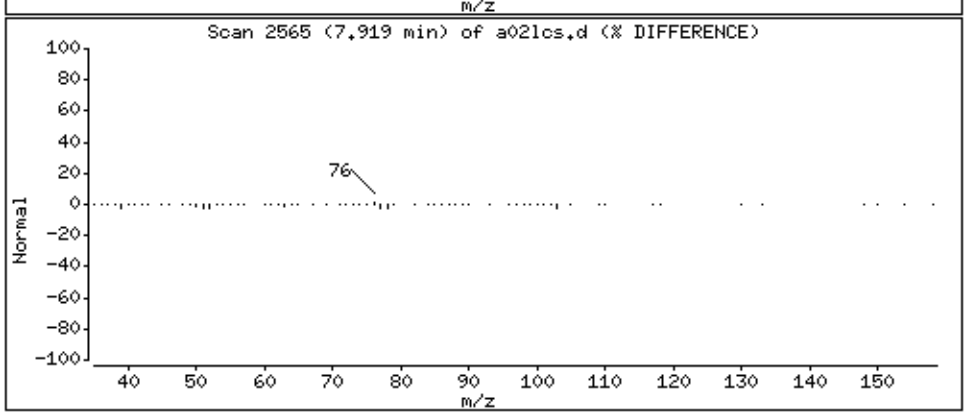












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

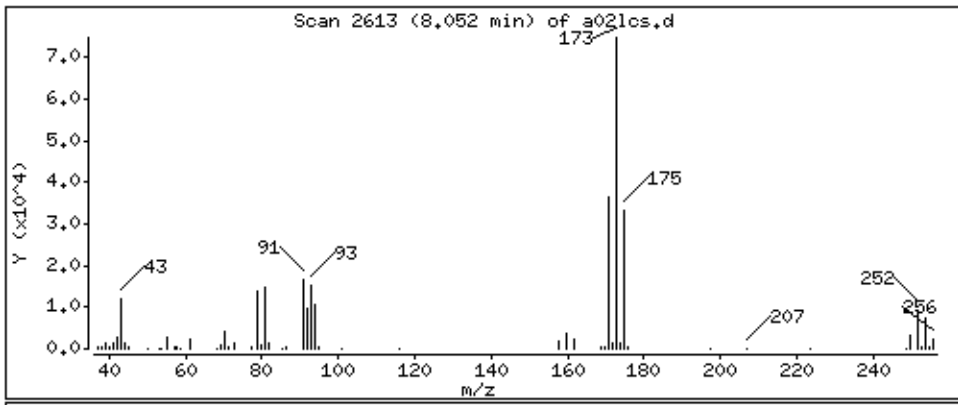
Operator: dae

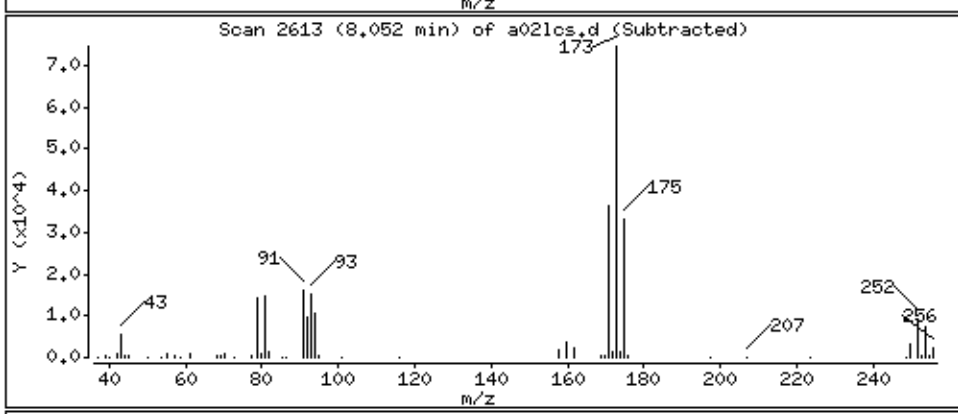
Column phase: DB-624

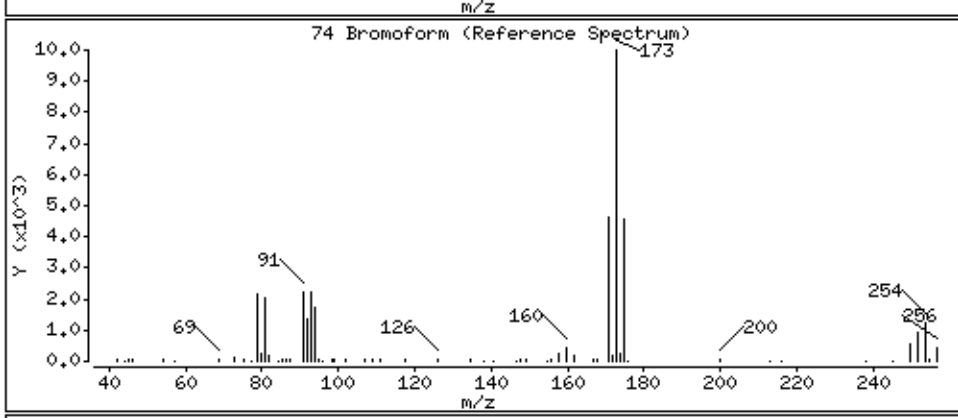
Column diameter: 0.18

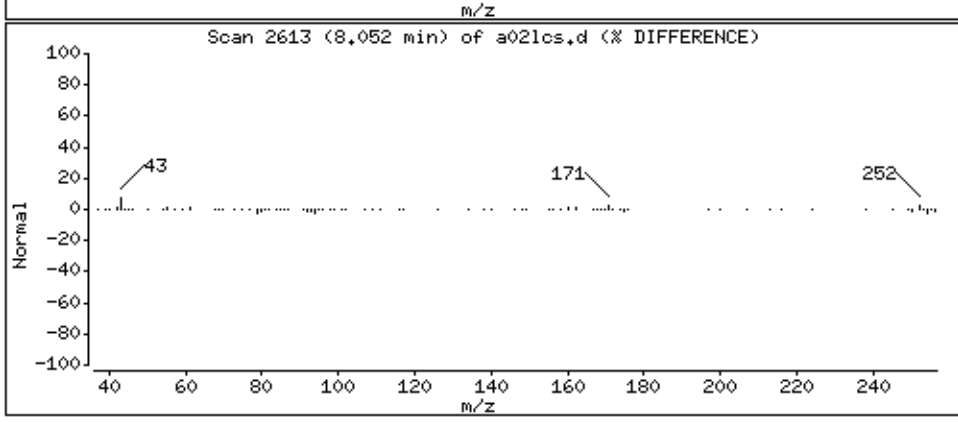
74 Bromoform

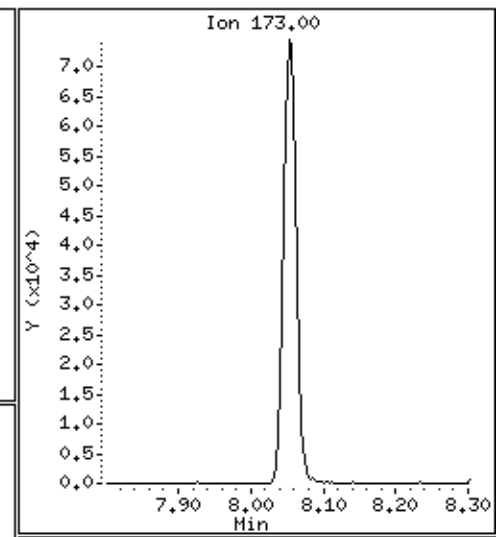
Concentration: 38.9 ppb

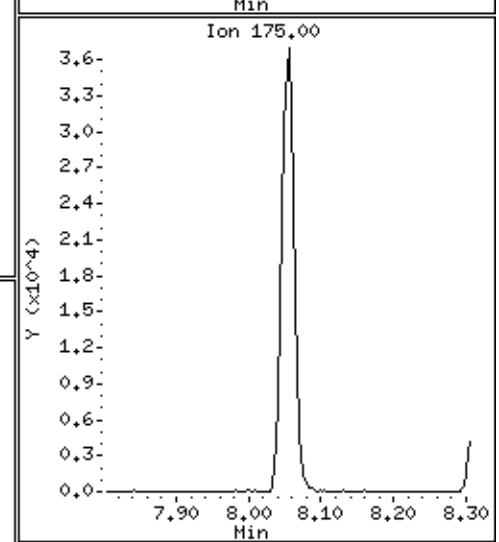


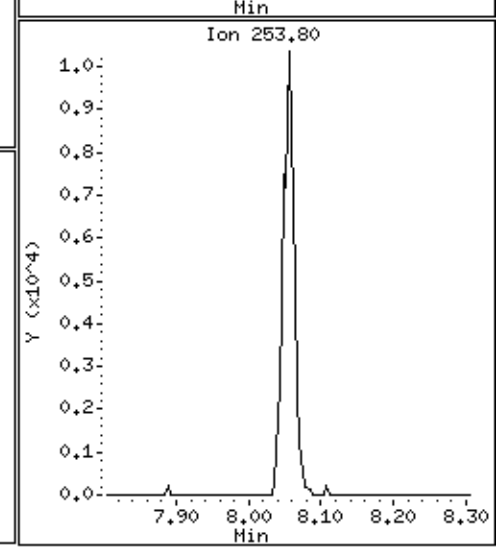












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

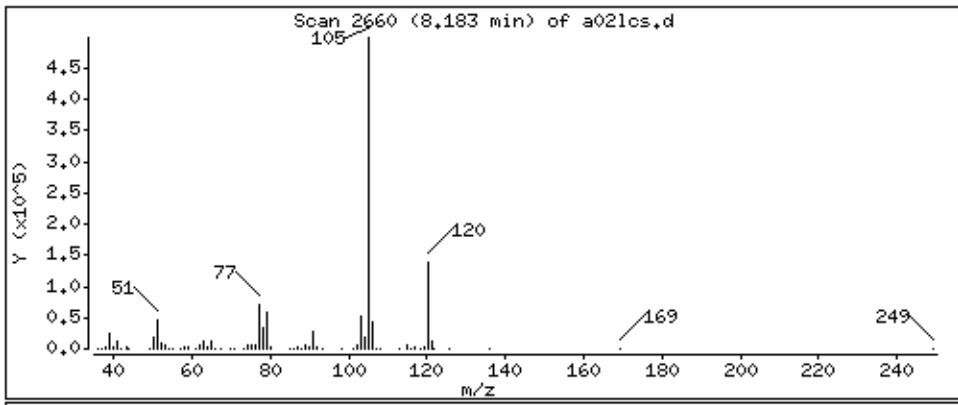
Operator: dae

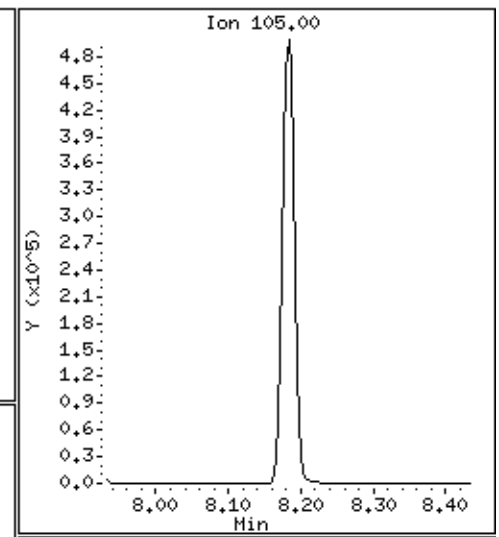
Column phase: DB-624

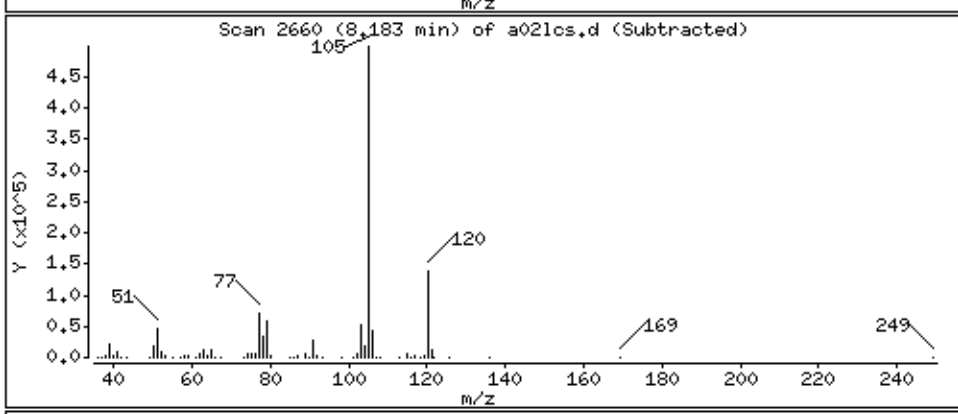
Column diameter: 0.18

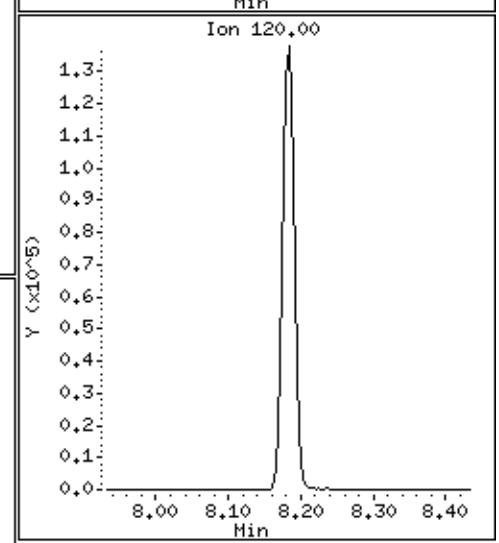
75 Isopropylbenzene

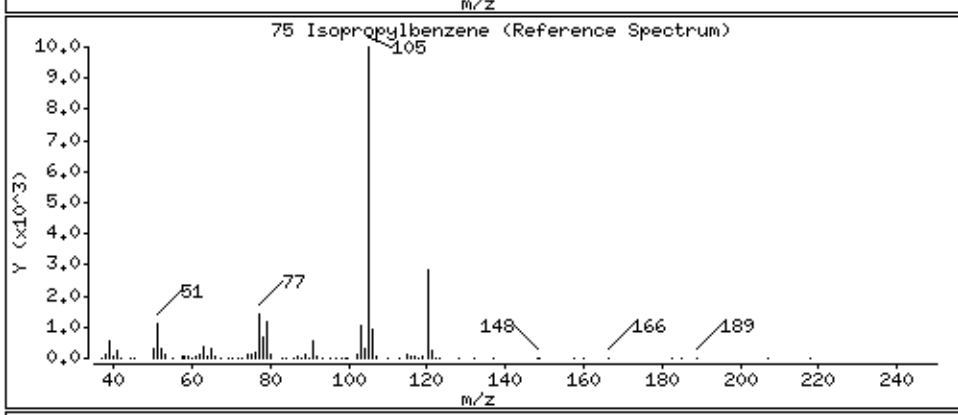
Concentration: 49.1 ppb

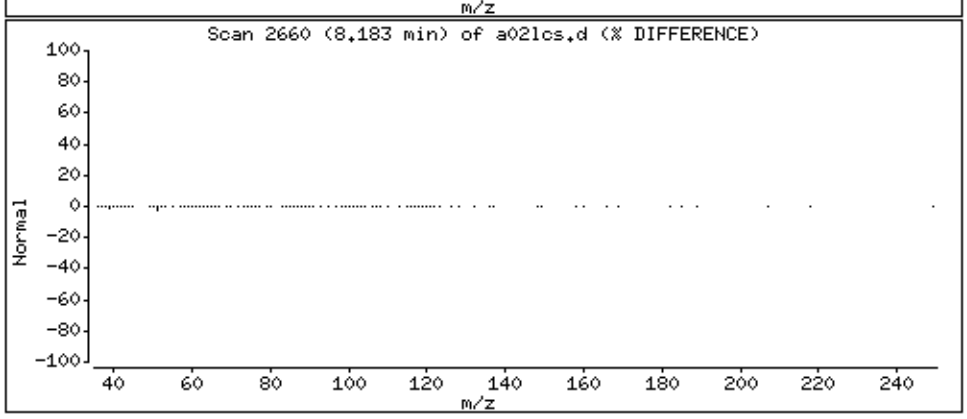












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

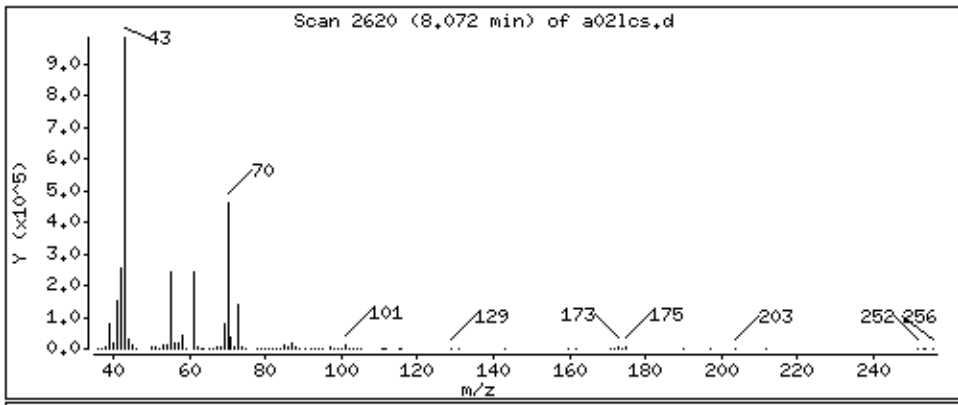
Operator: dae

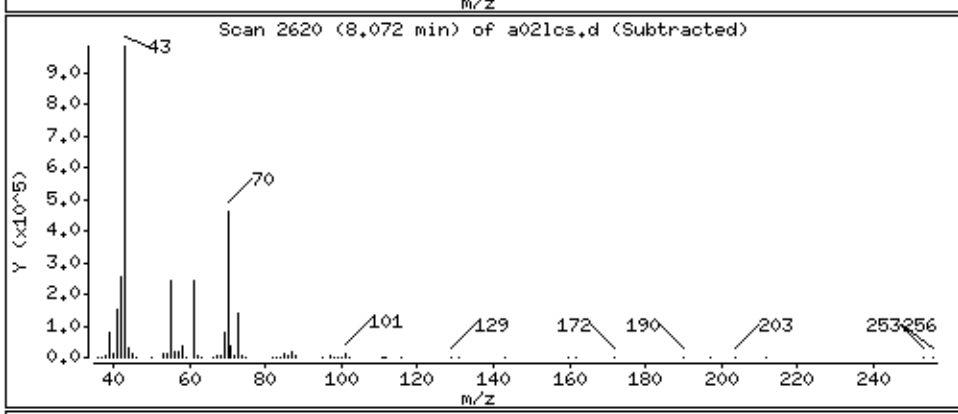
Column phase: DB-624

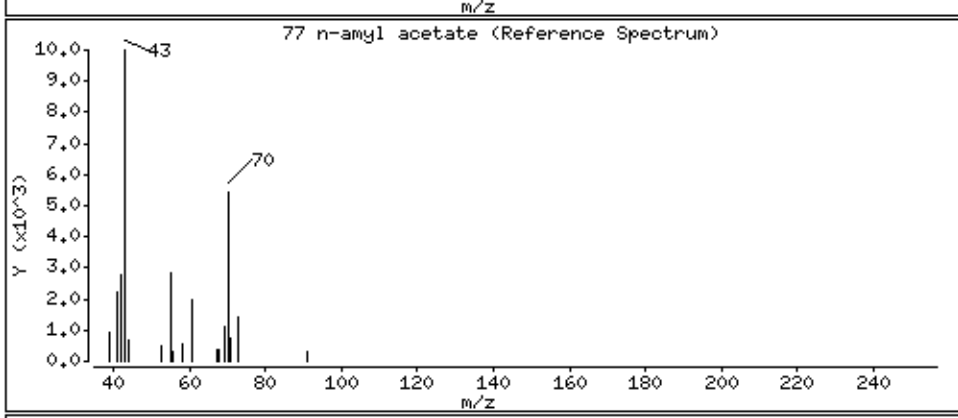
Column diameter: 0.18

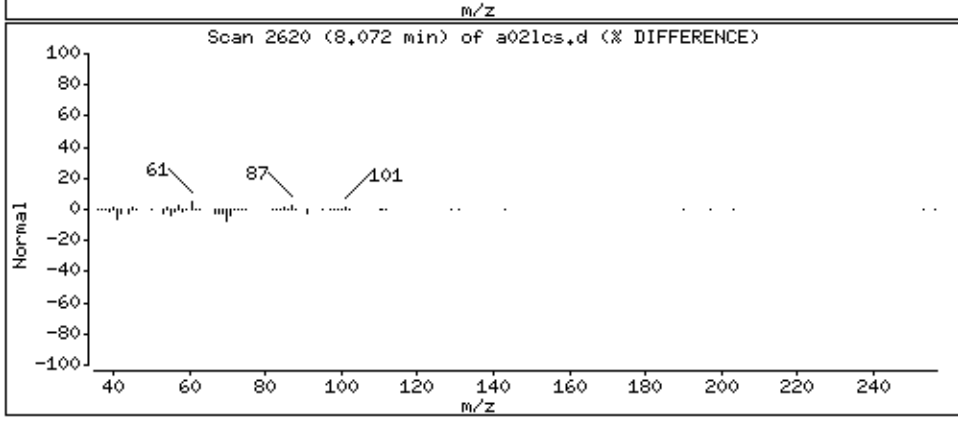
77 n-amyl acetate

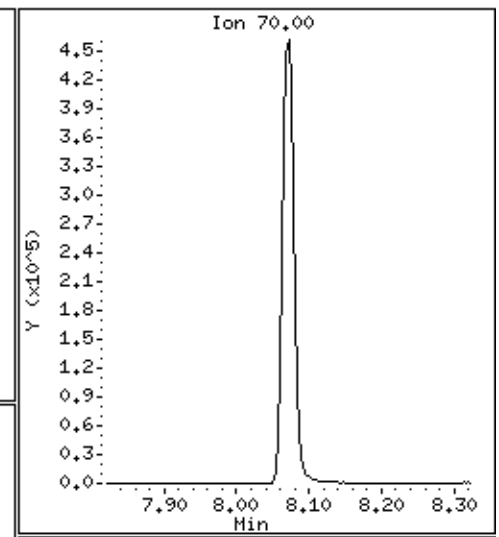
Concentration: 232 ppb

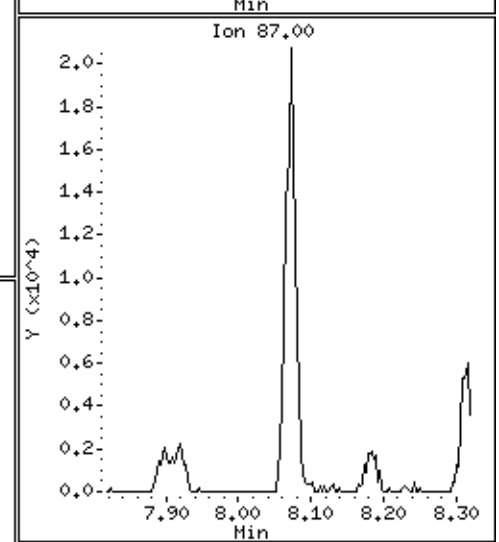


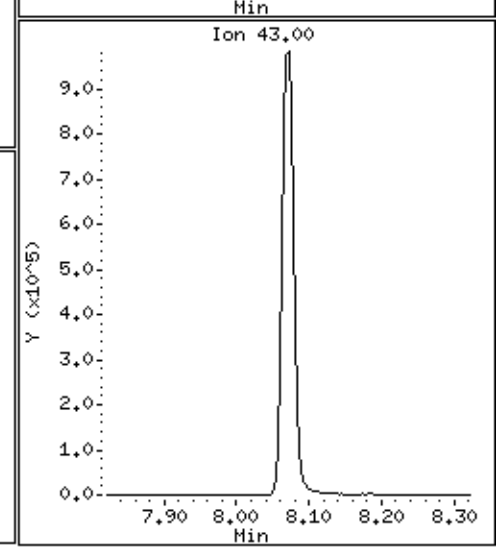












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

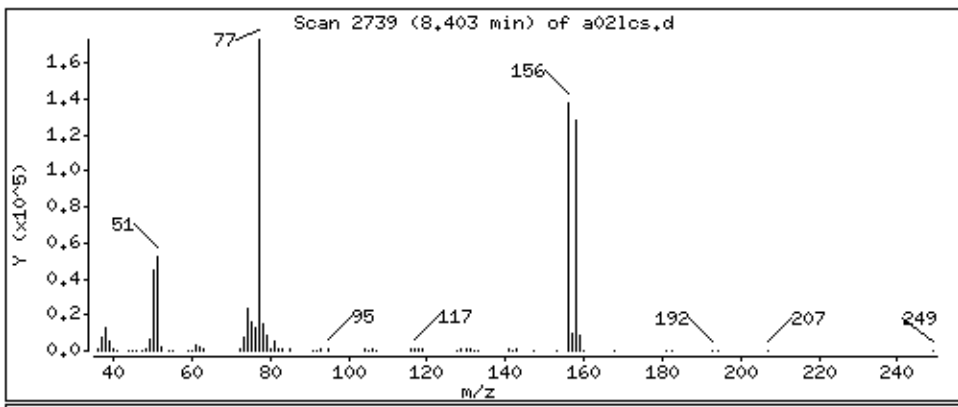
Operator: dae

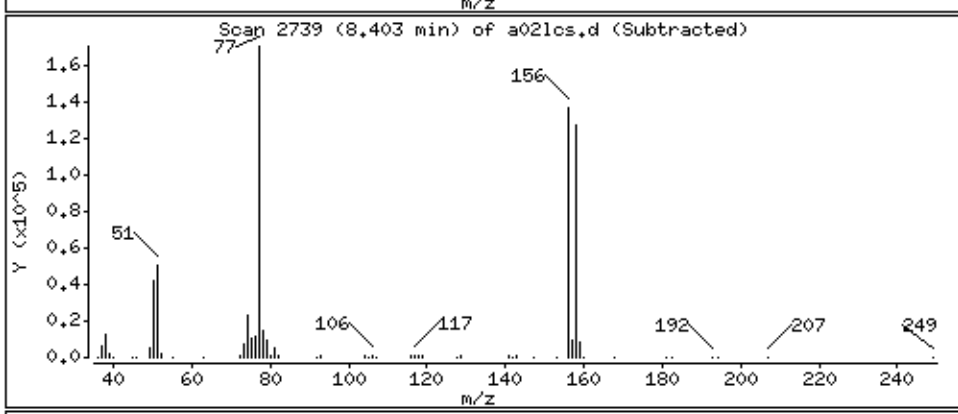
Column phase: DB-624

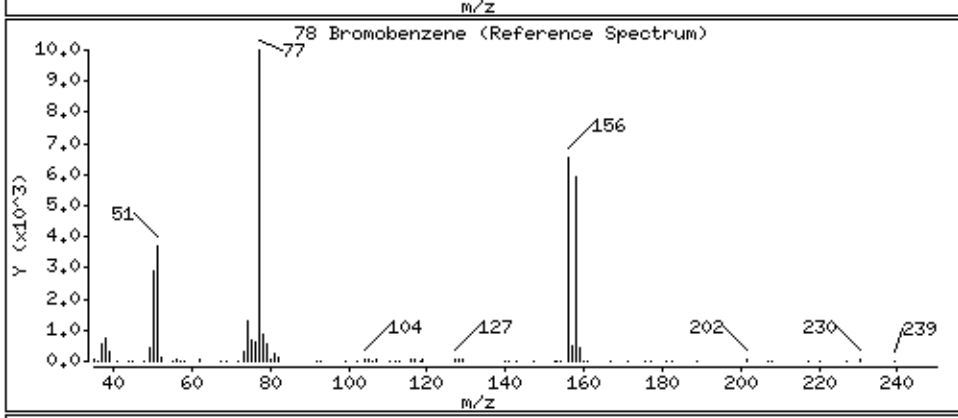
Column diameter: 0.18

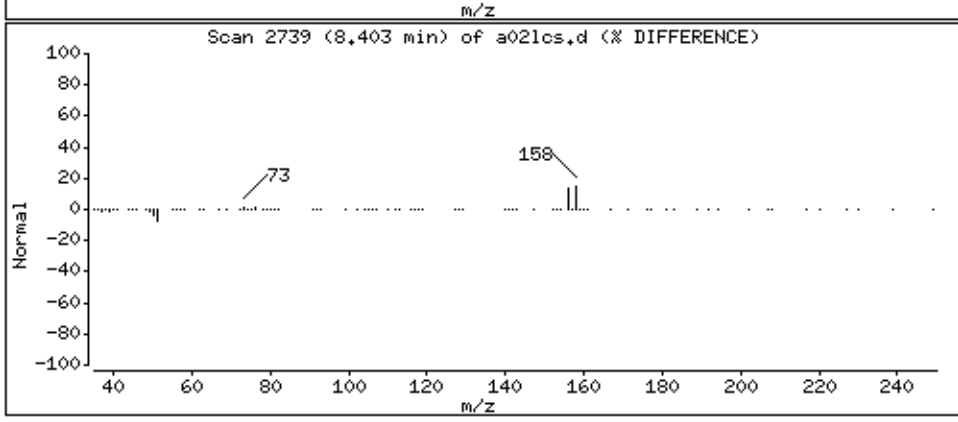
78 Bromobenzene

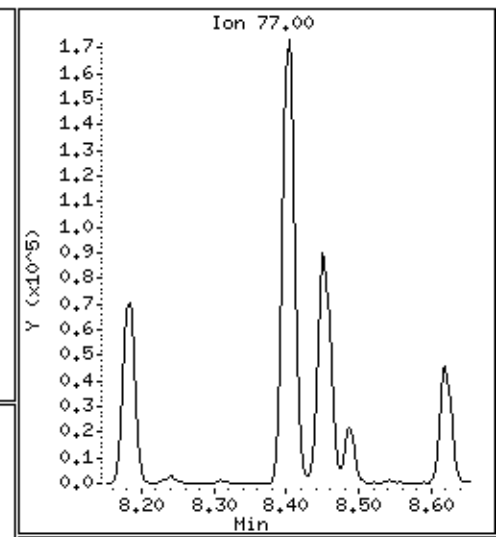
Concentration: 44.7 ppb

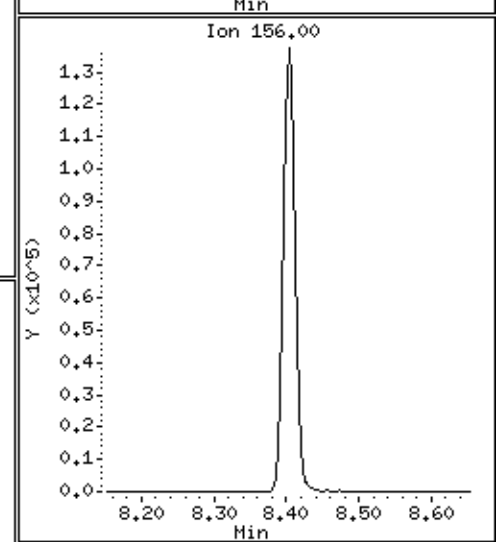


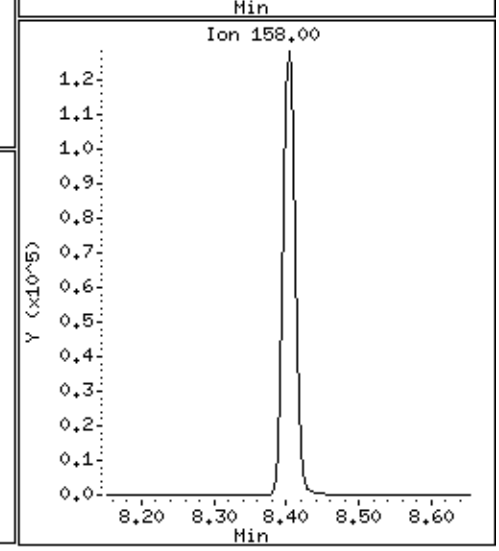












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

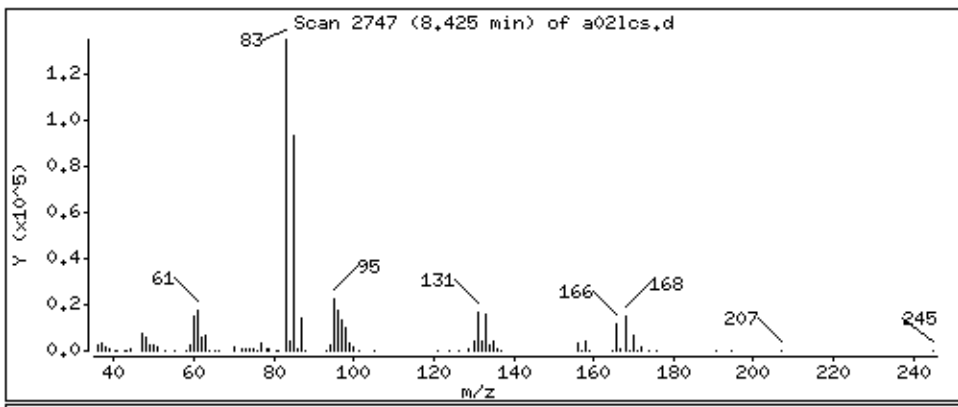
Operator: dae

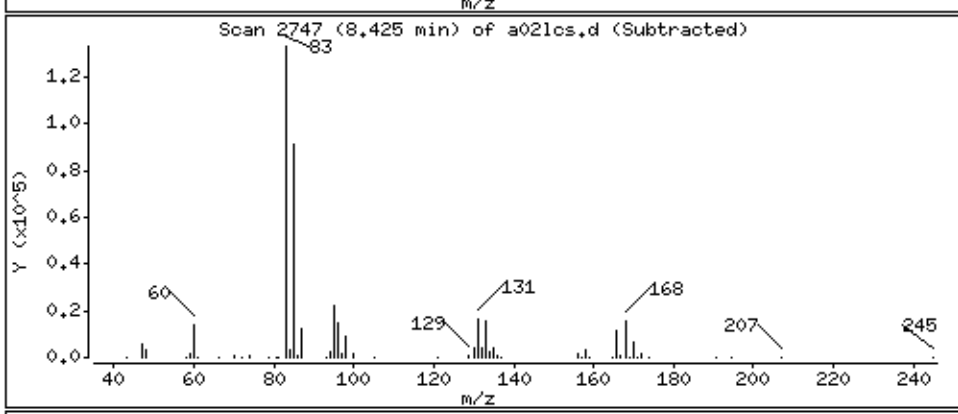
Column phase: DB-624

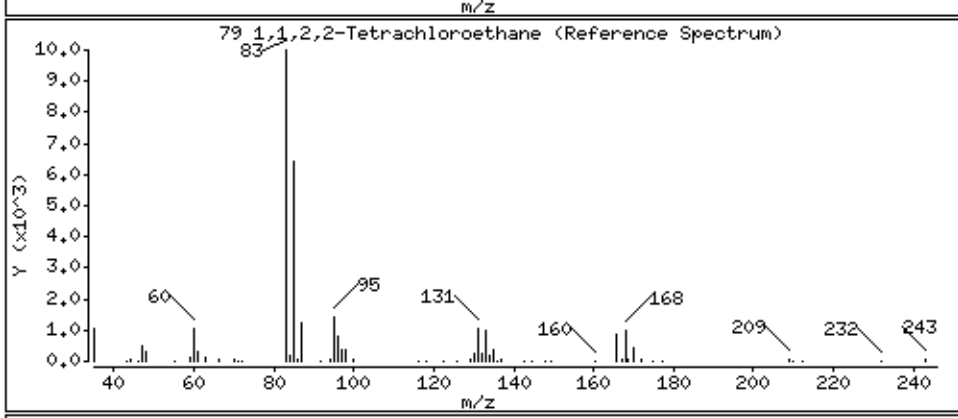
Column diameter: 0.18

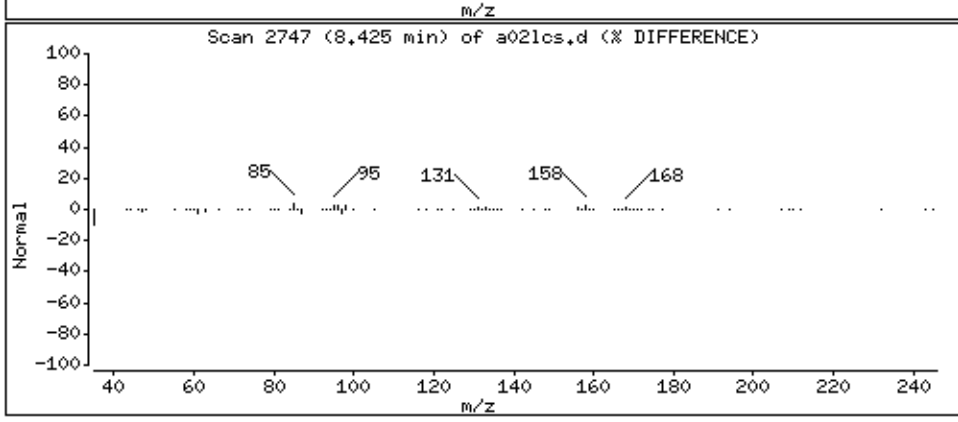
79 1,1,2,2-Tetrachloroethane

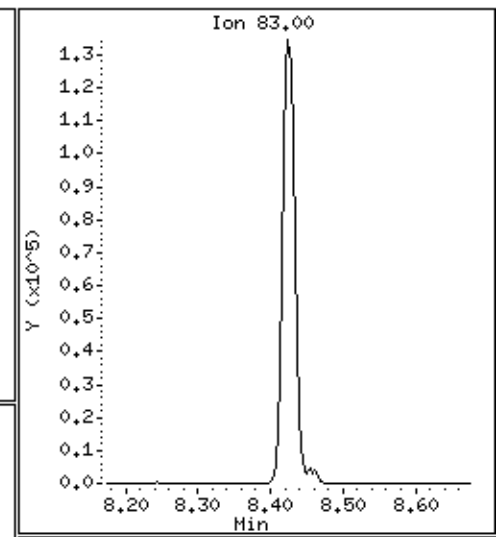
Concentration: 49.1 ppb

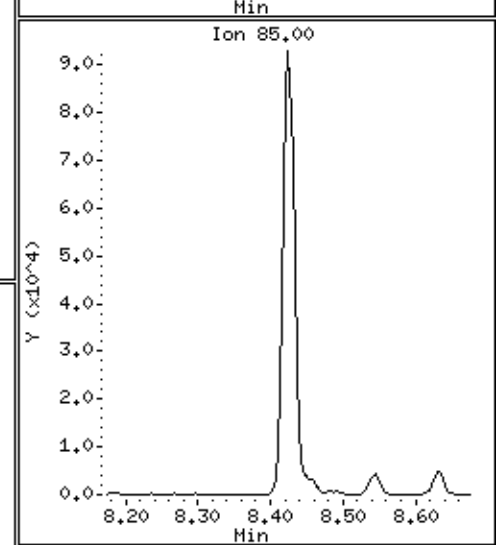


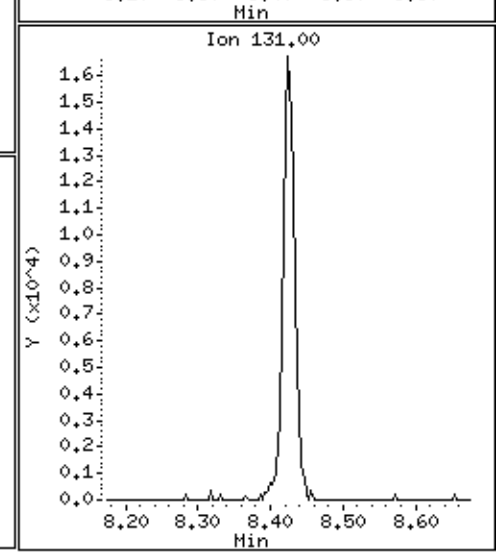












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

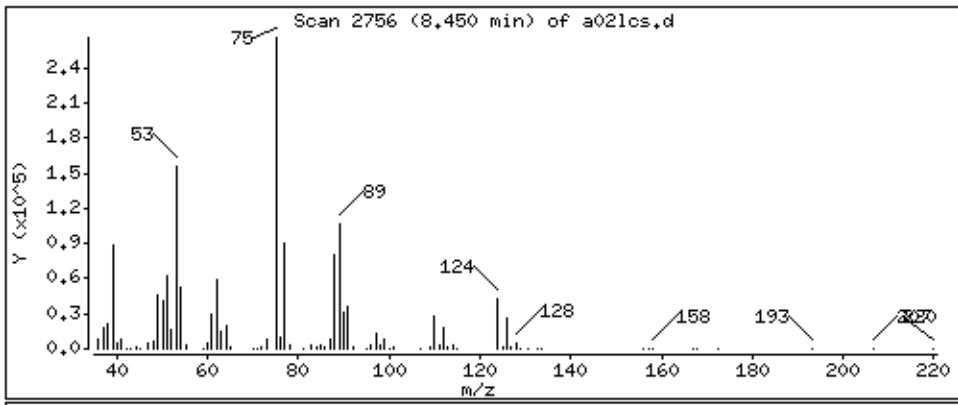
Operator: dae

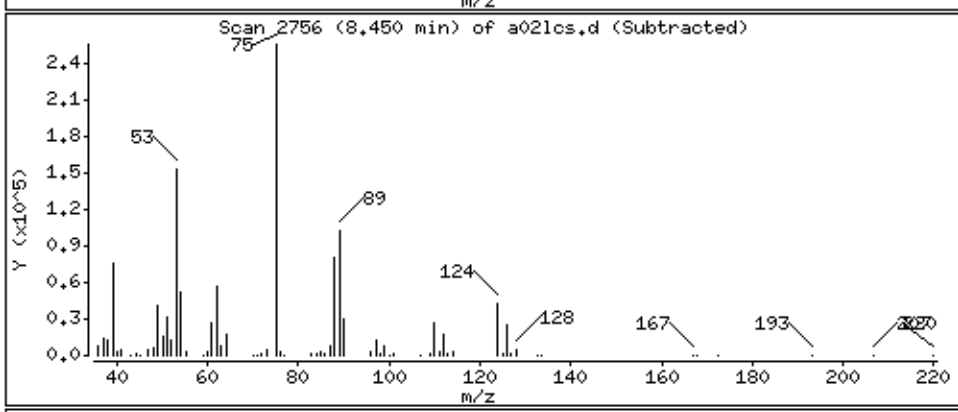
Column phase: DB-624

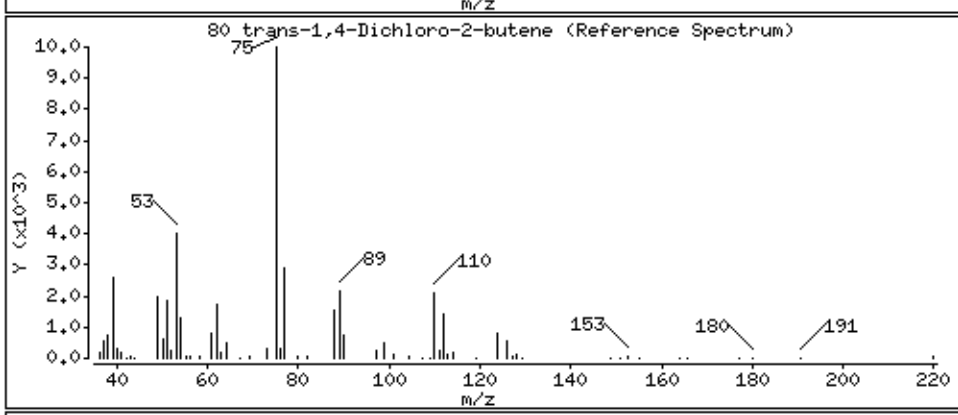
Column diameter: 0.18

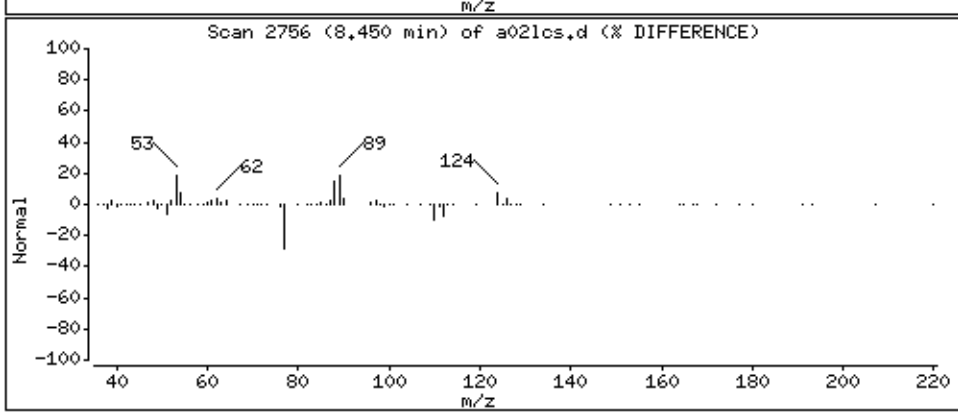
80 trans-1,4-Dichloro-2-butene

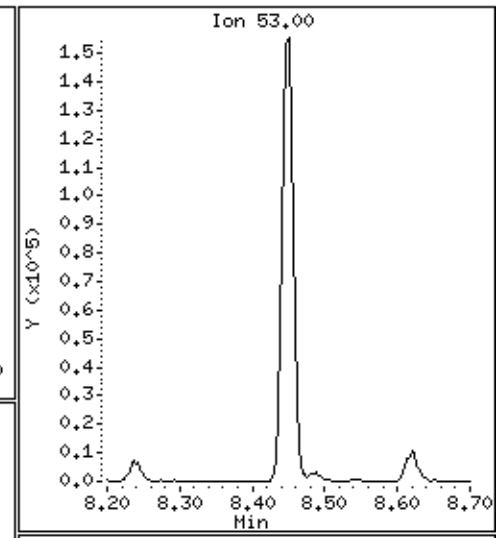
Concentration: 167 ppb

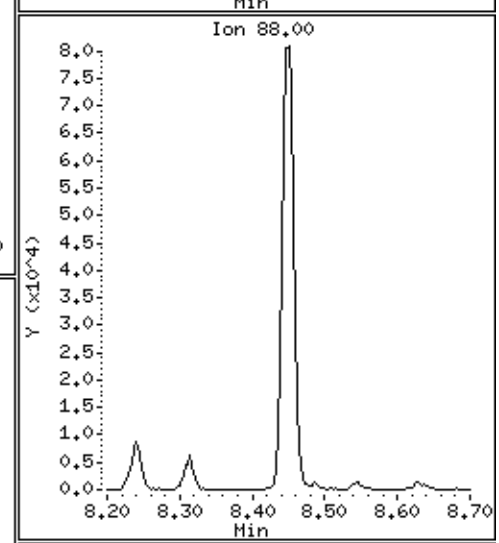


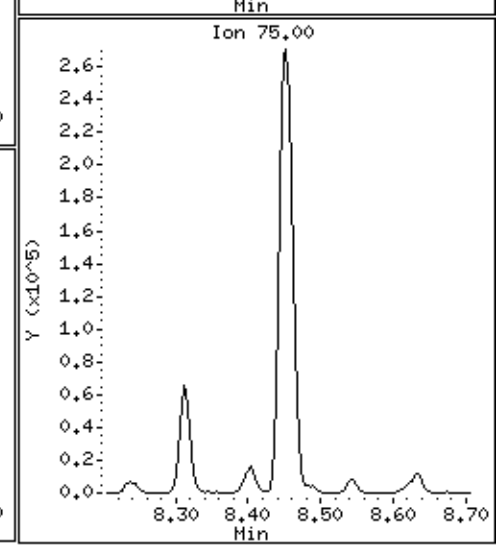












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

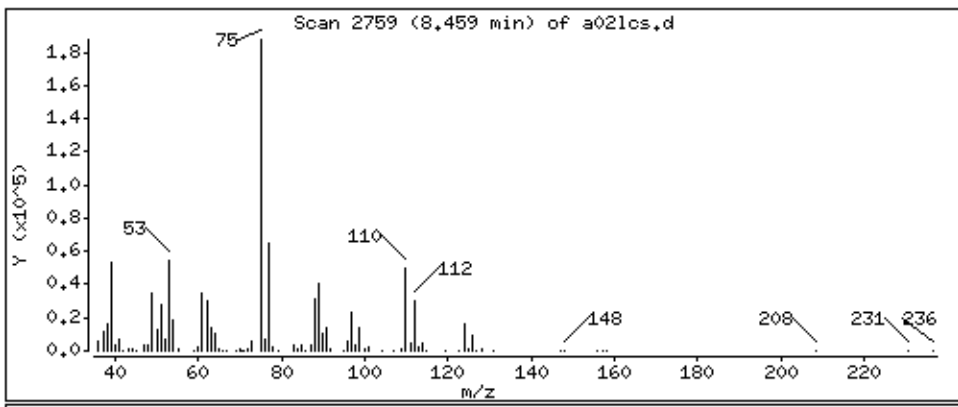
Operator: dae

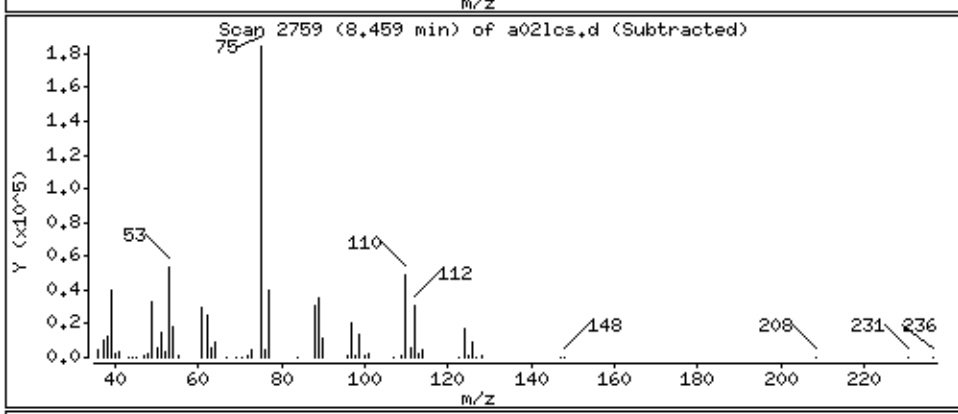
Column phase: DB-624

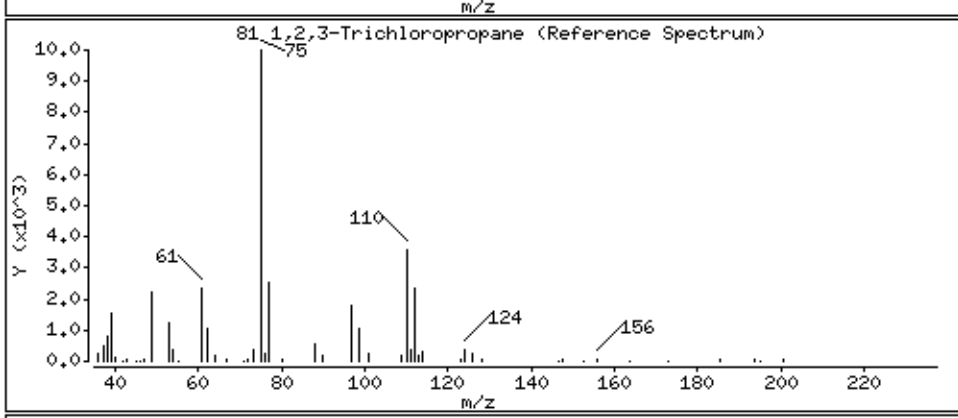
Column diameter: 0.18

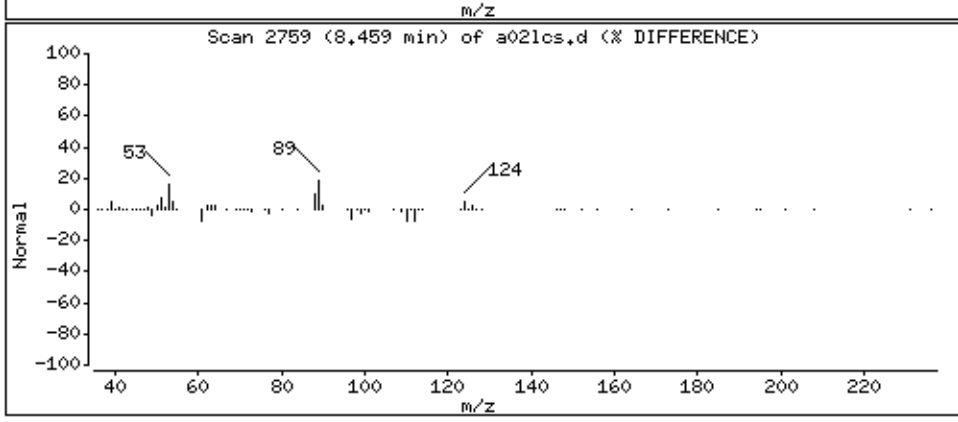
81 1,2,3-Trichloropropane

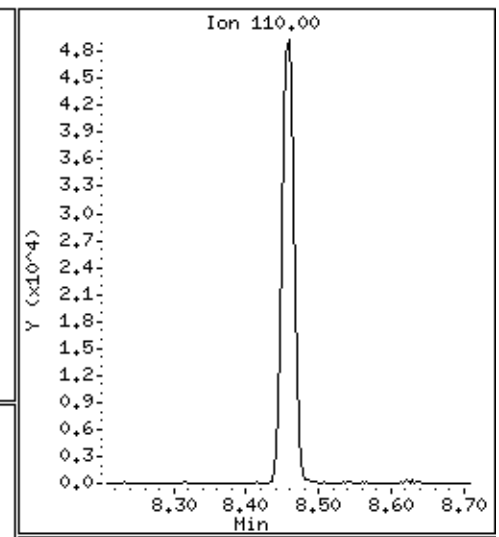
Concentration: 49.6 ppb

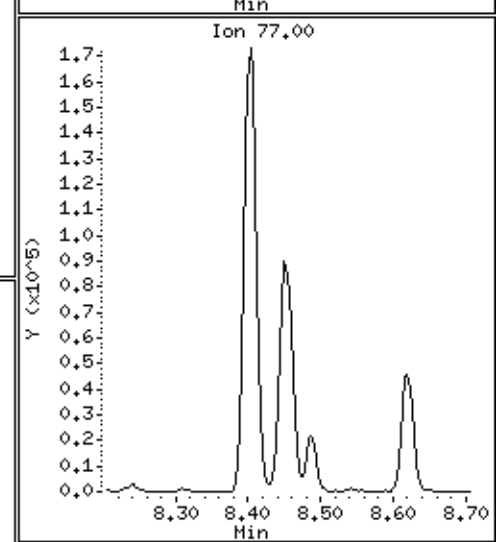


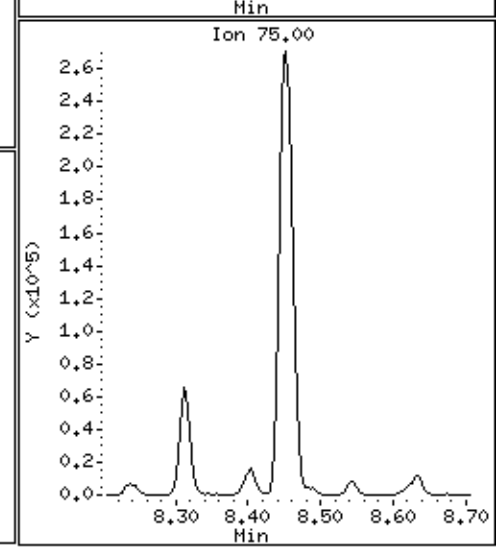












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

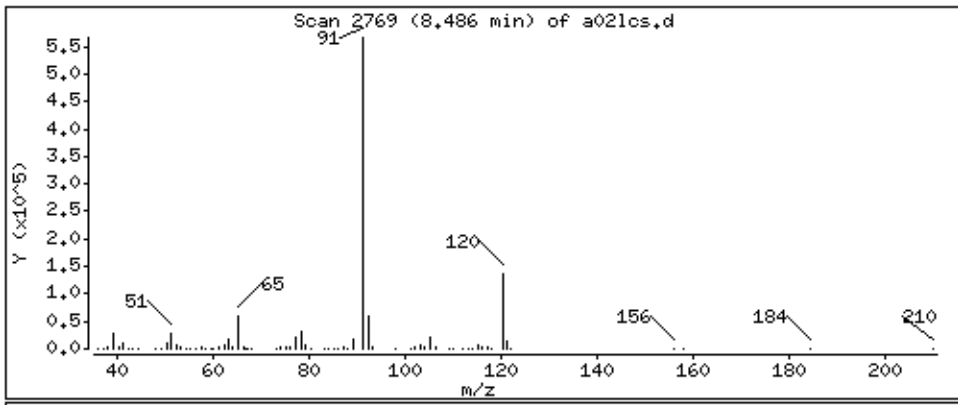
Operator: dae

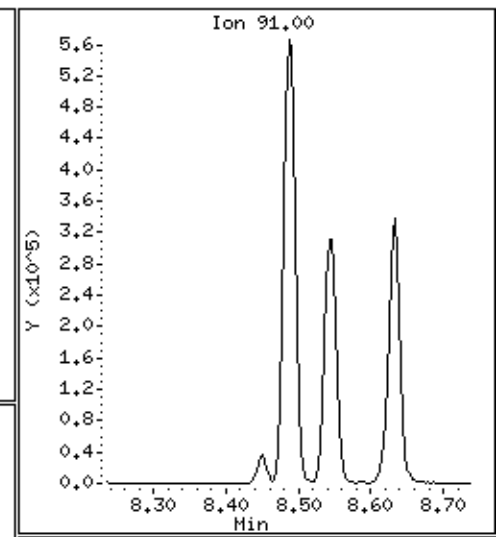
Column phase: DB-624

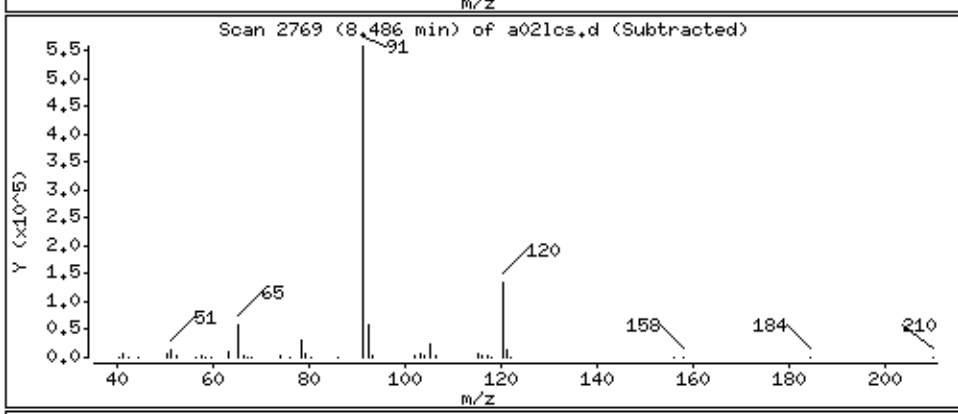
Column diameter: 0.18

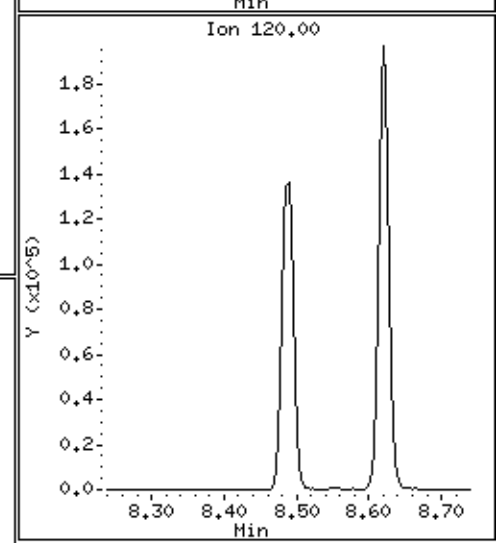
82 n-Propylbenzene

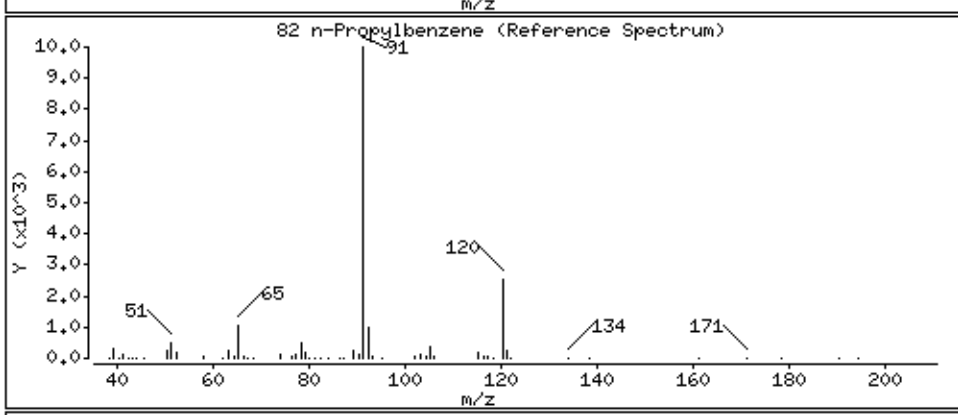
Concentration: 53.8 ppb

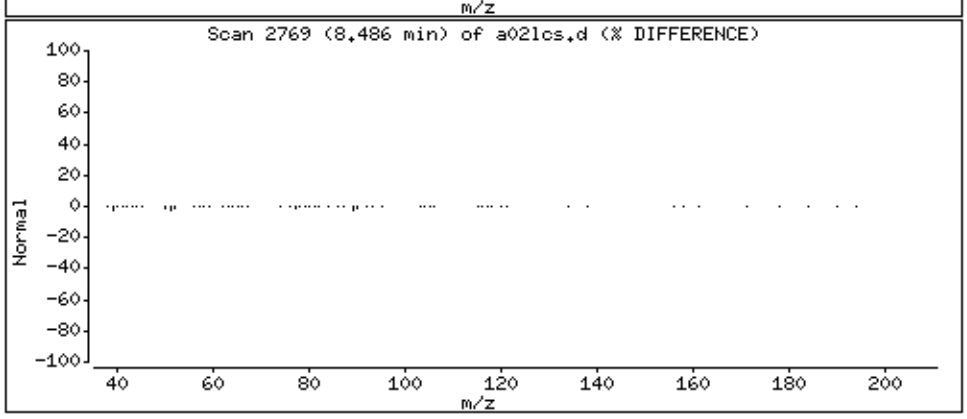












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

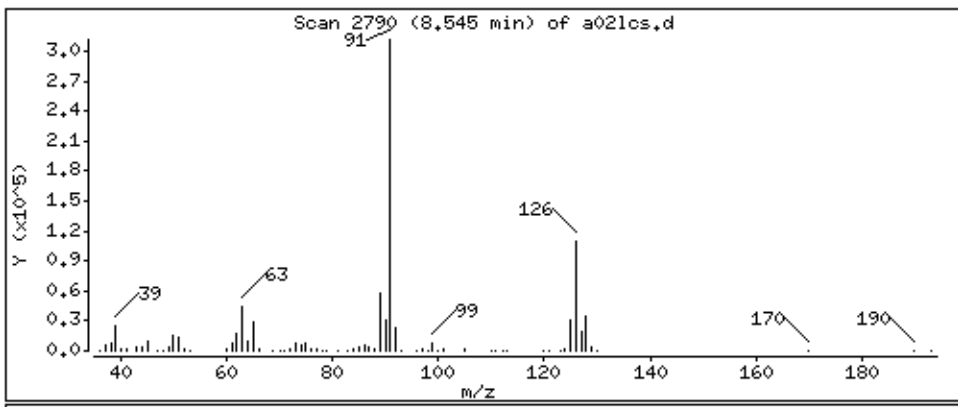
Operator: dae

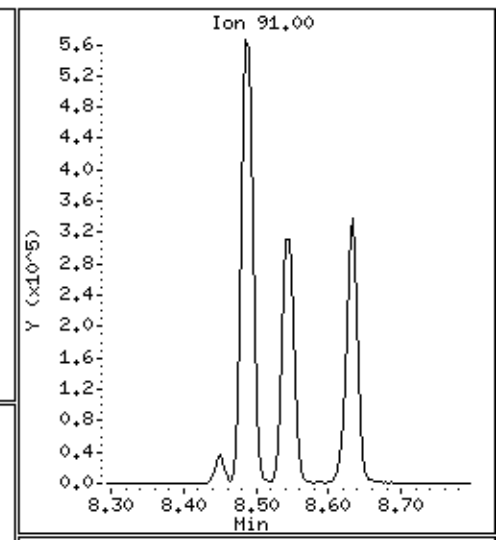
Column phase: DB-624

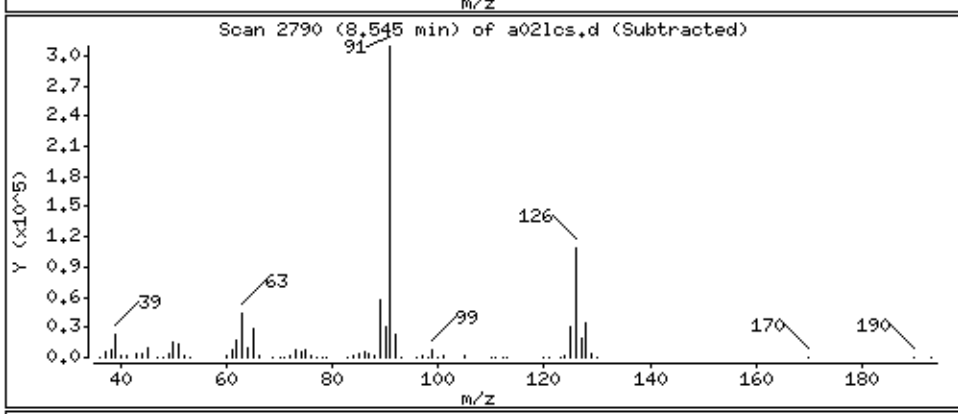
Column diameter: 0.18

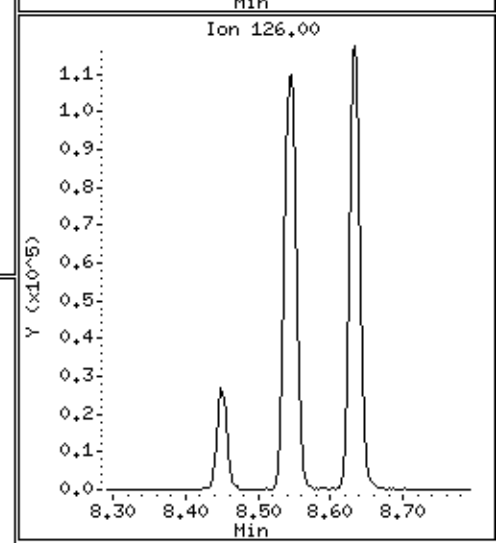
83 2-Chlorotoluene

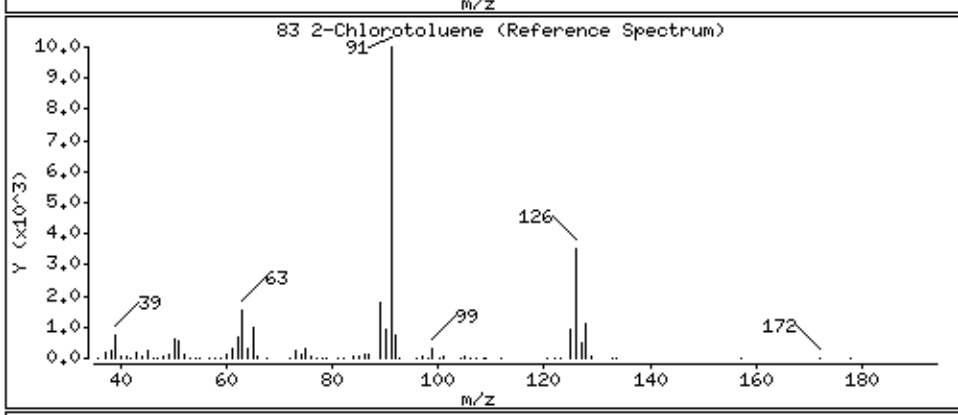
Concentration: 48.7 ppb

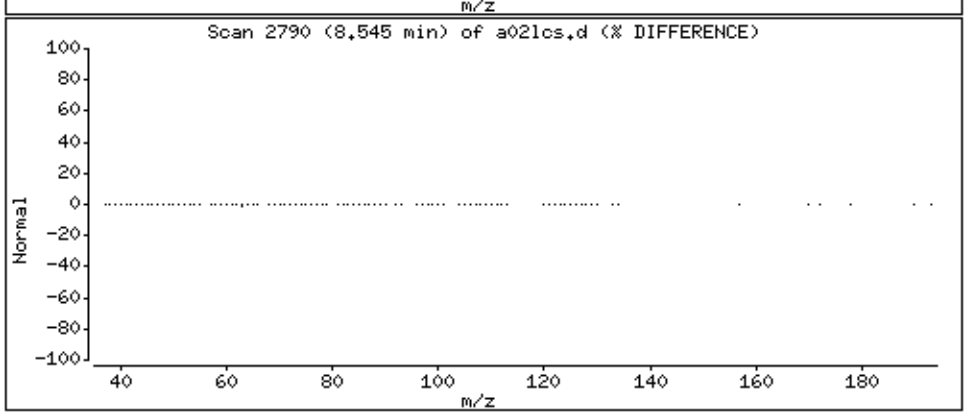












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

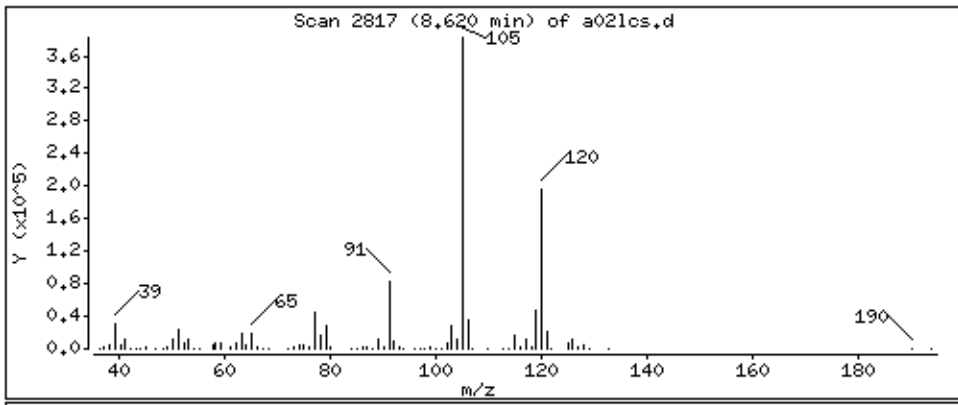
Operator: dae

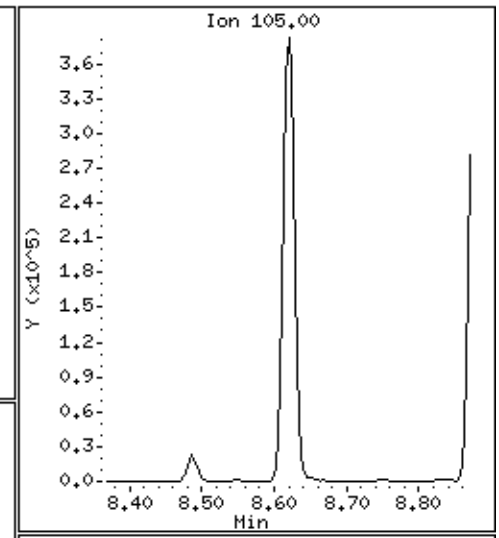
Column phase: DB-624

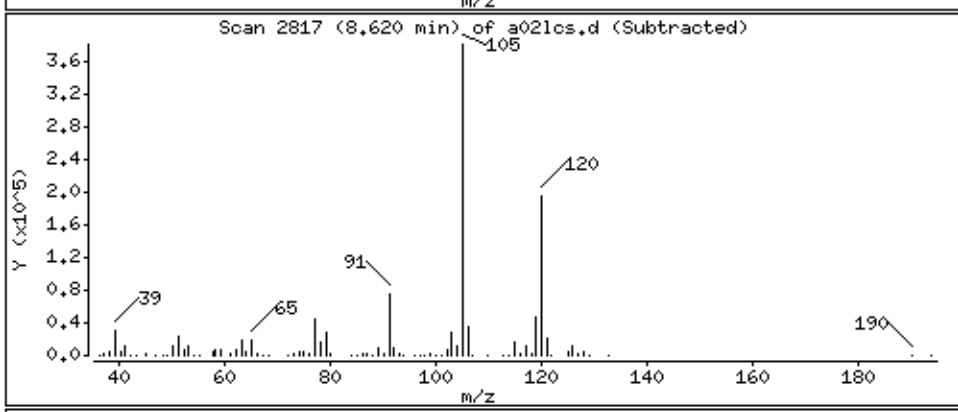
Column diameter: 0.18

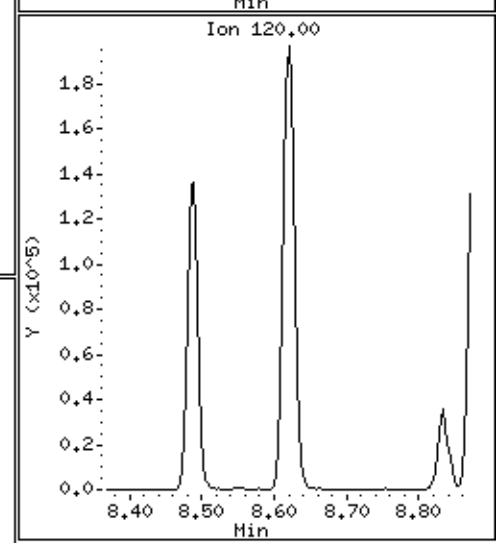
84 1,3,5-Trimethylbenzene

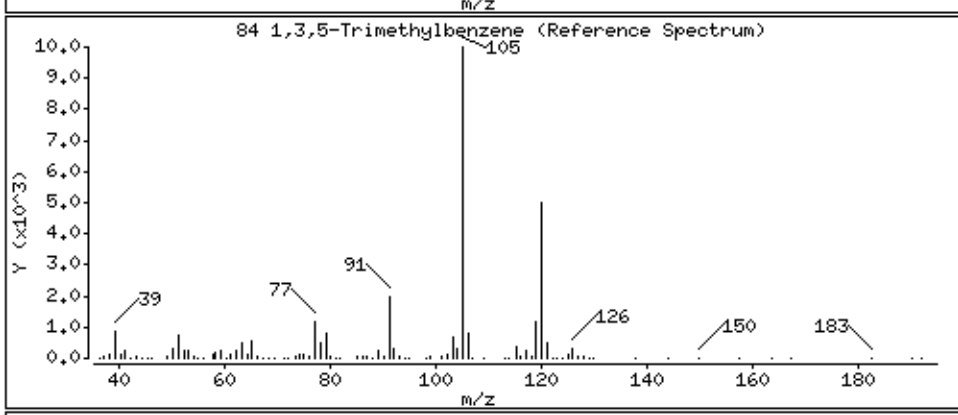
Concentration: 47.7 ppb

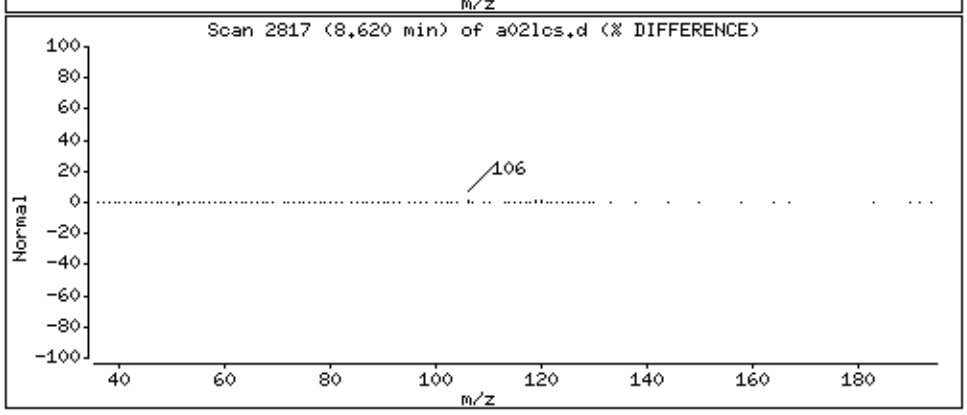












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

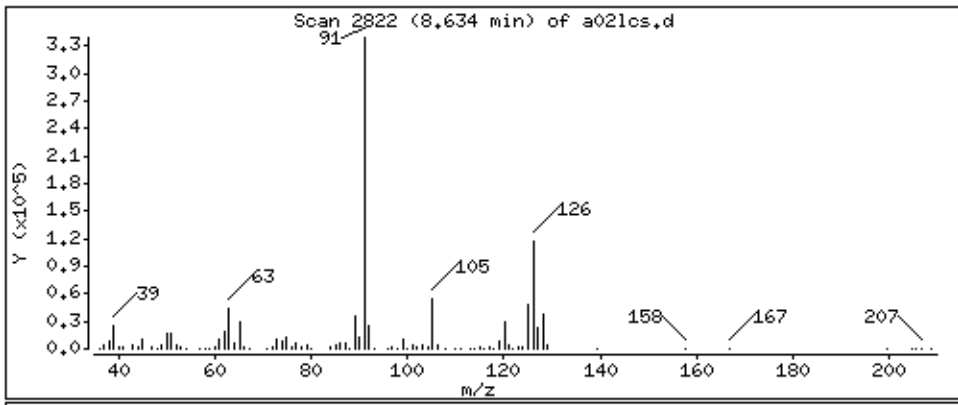
Operator: dae

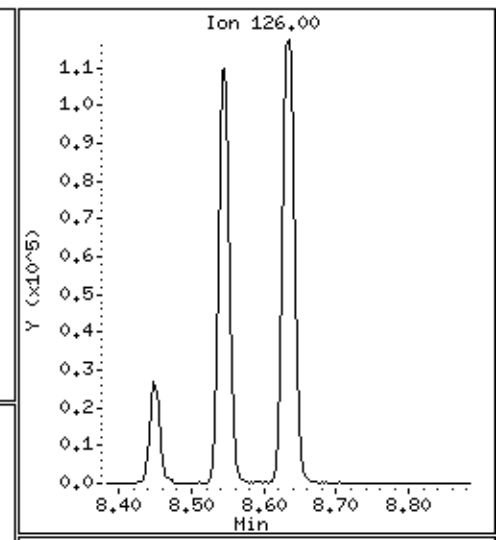
Column phase: DB-624

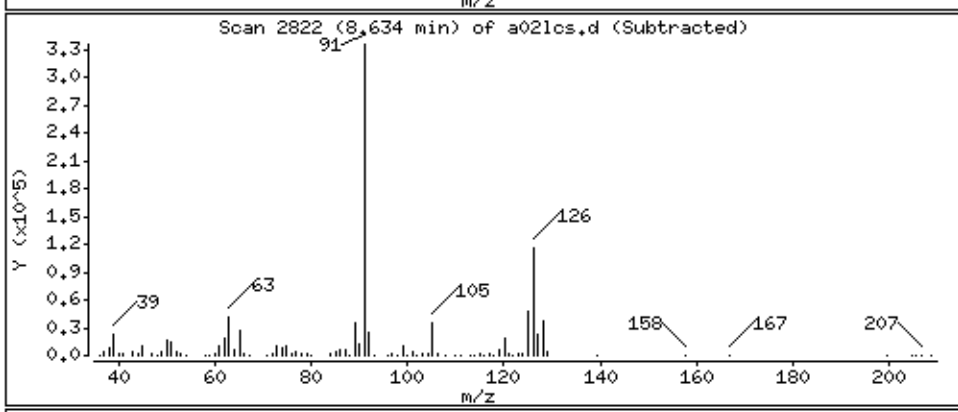
Column diameter: 0.18

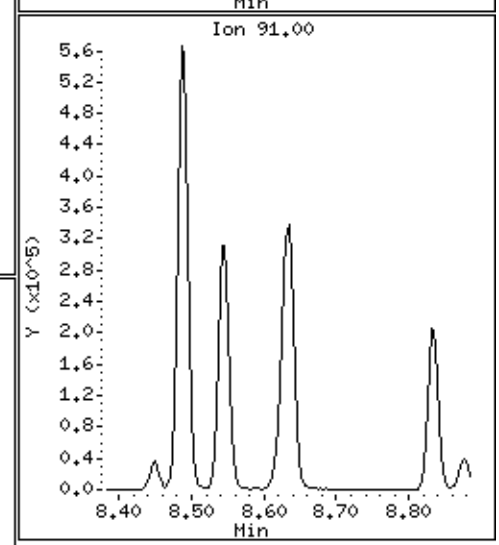
85 4-Chlorotoluene

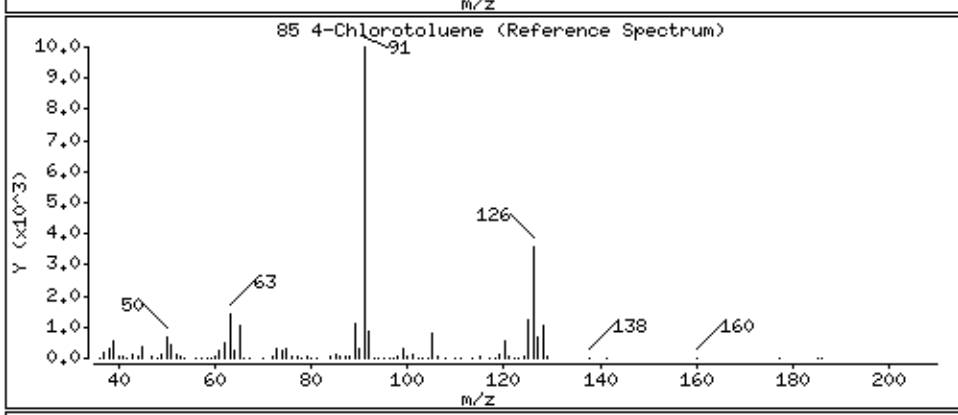
Concentration: 48.7 ppb

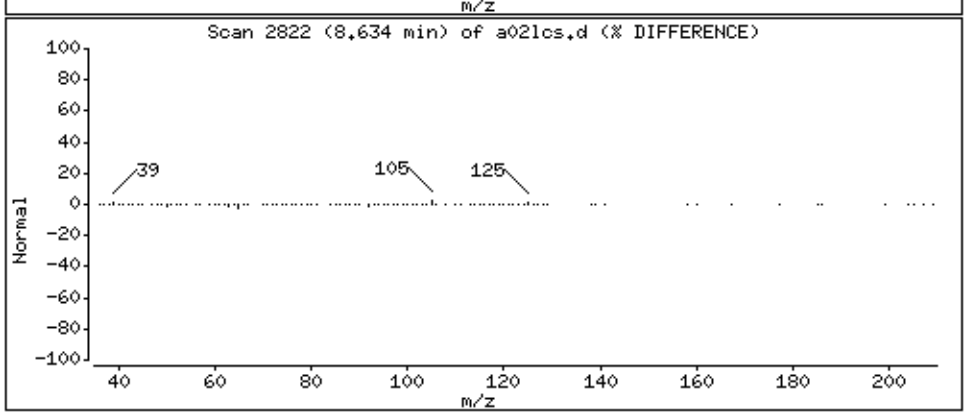












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

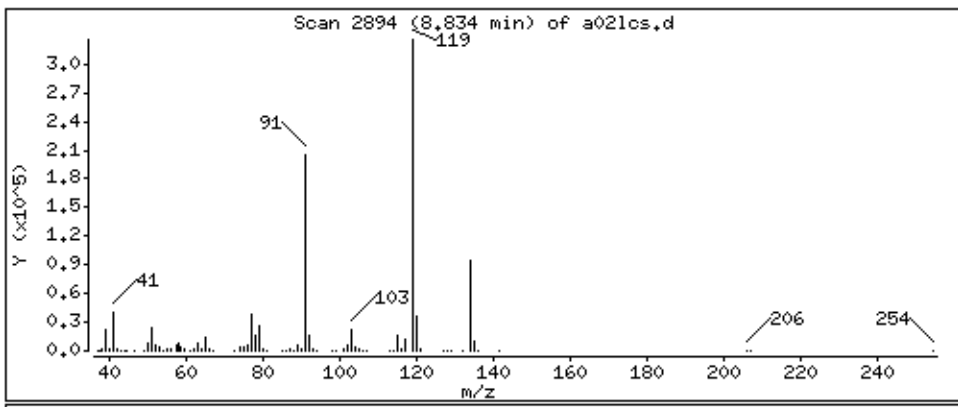
Operator: dae

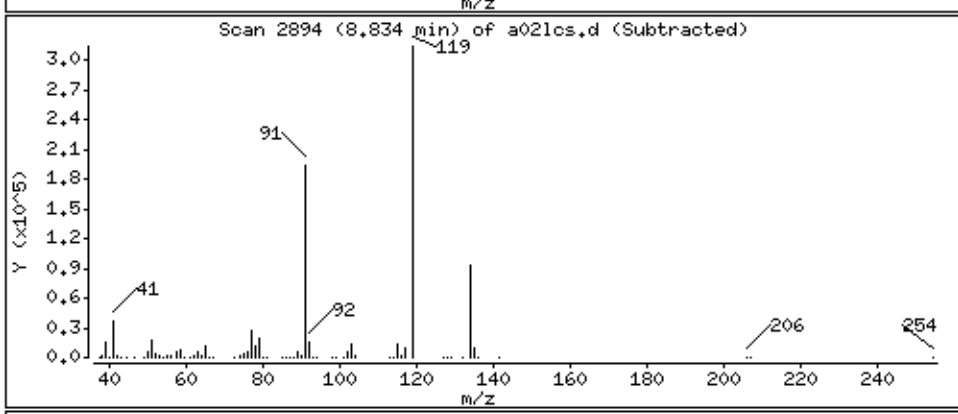
Column phase: DB-624

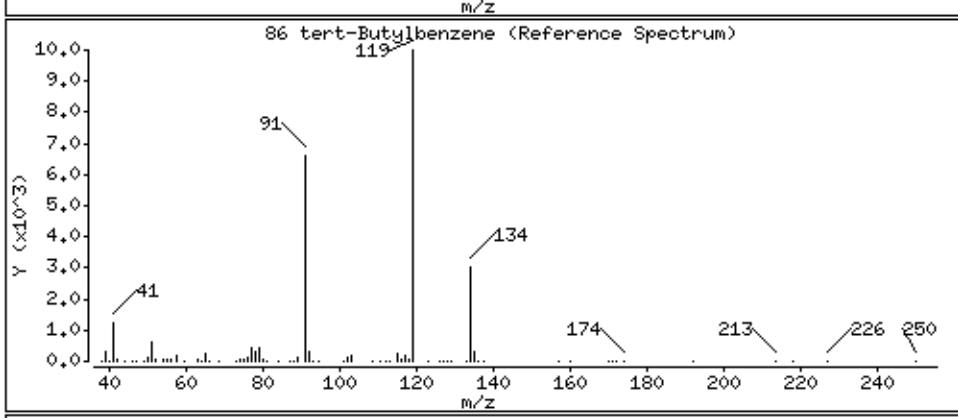
Column diameter: 0.18

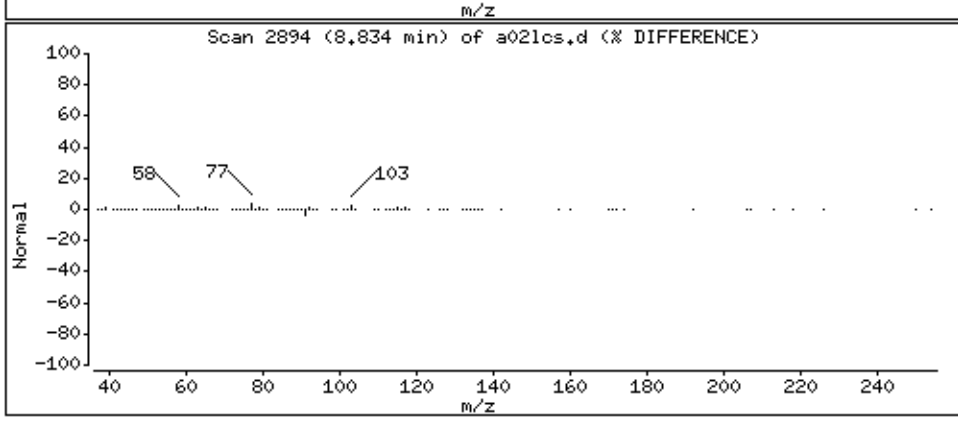
86 tert-Butylbenzene

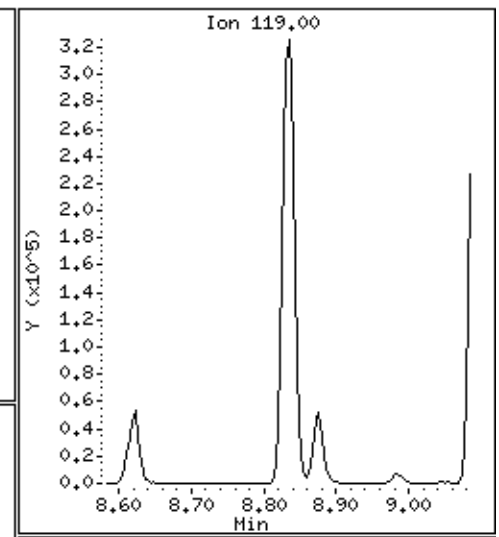
Concentration: 41.0 ppb

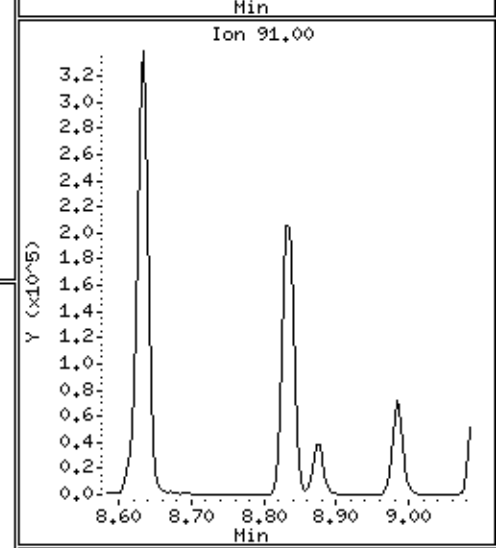


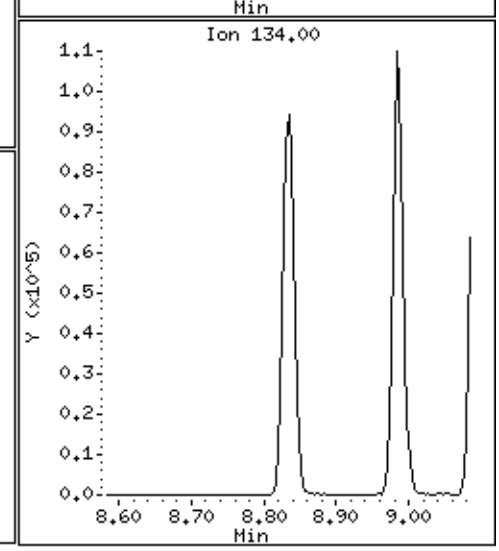












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

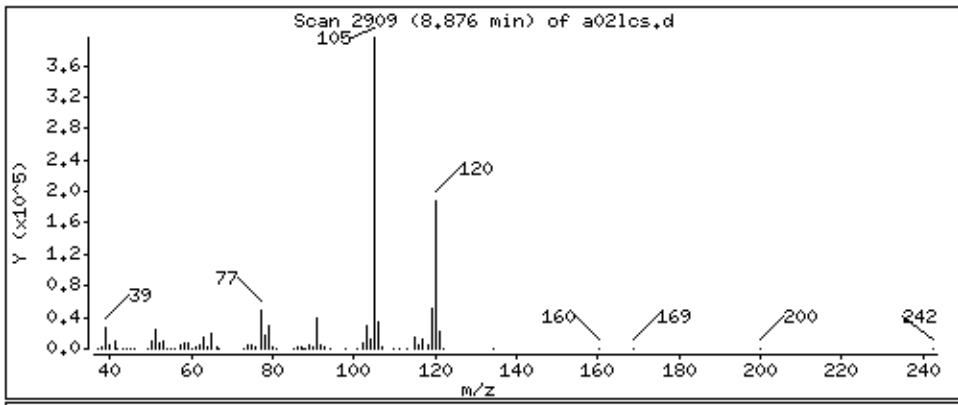
Operator: dae

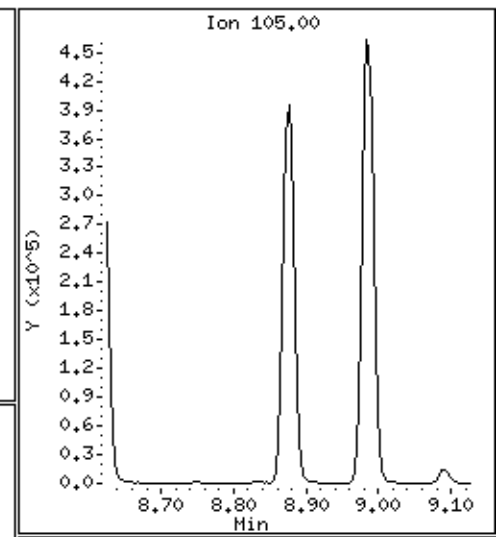
Column phase: DB-624

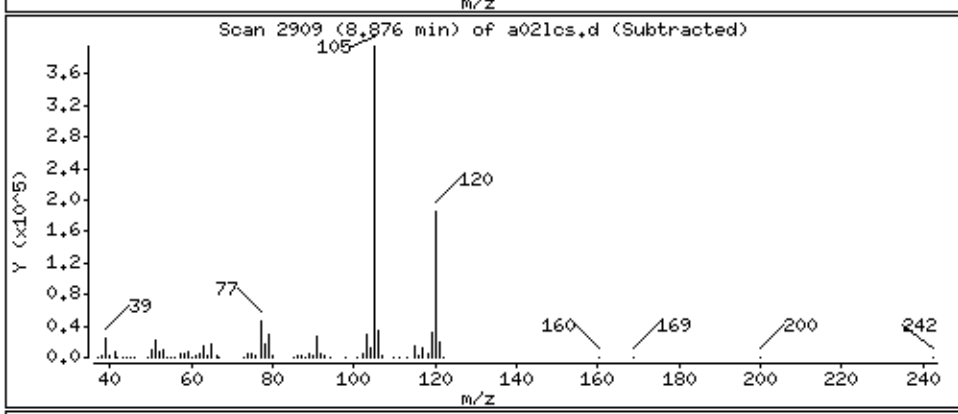
Column diameter: 0.18

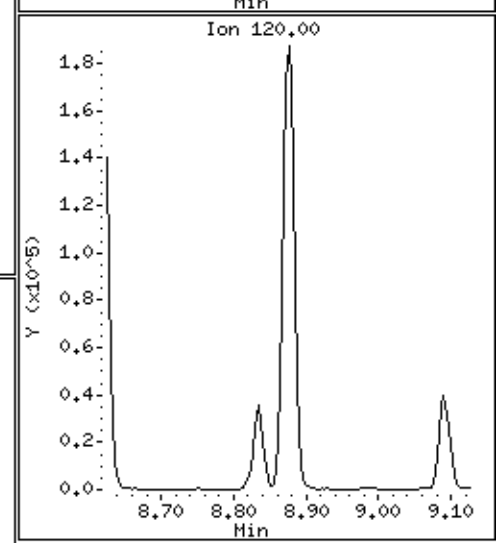
87 1,2,4-Trimethylbenzene

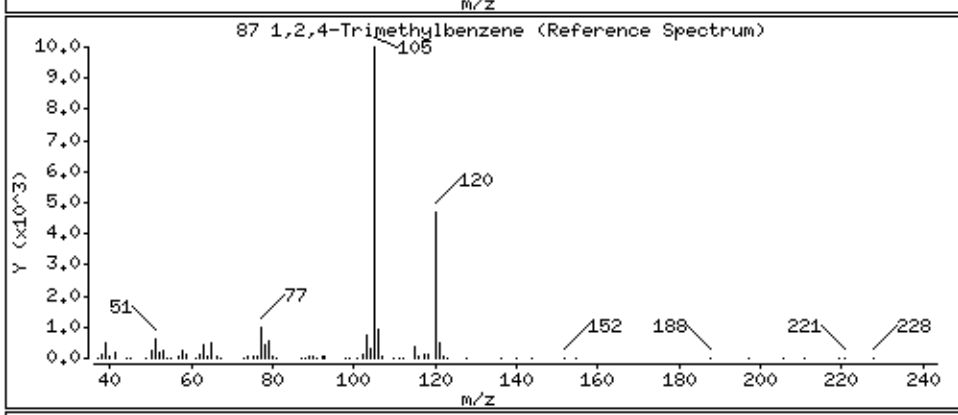
Concentration: 47.7 ppb

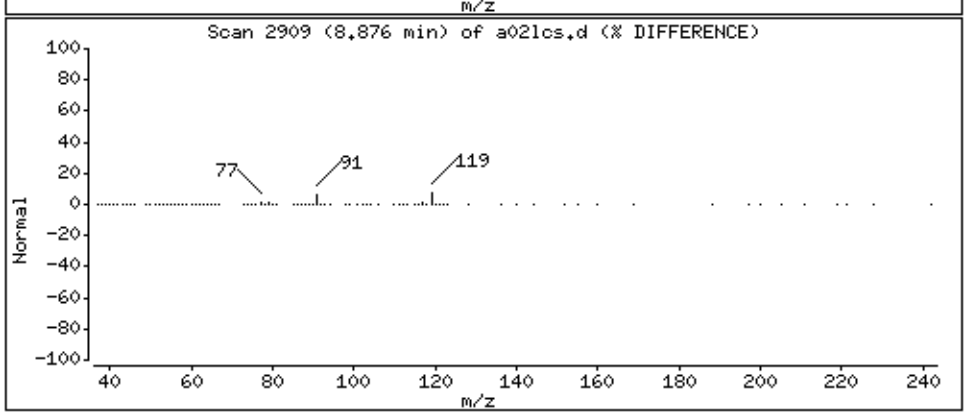












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

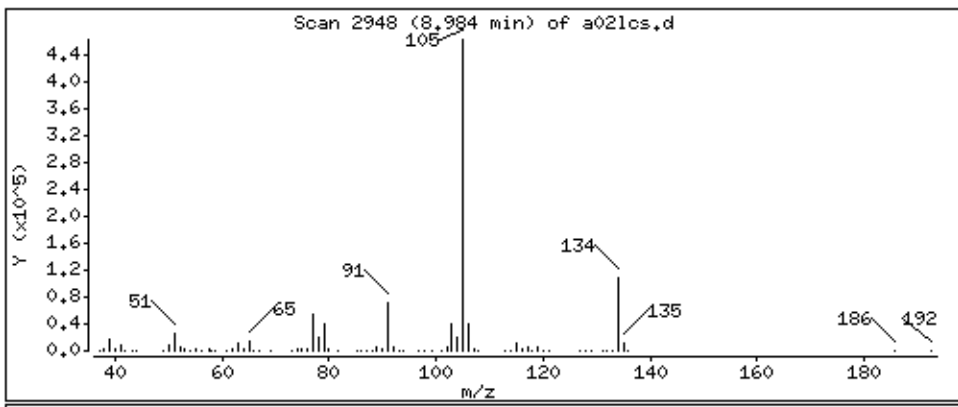
Operator: dae

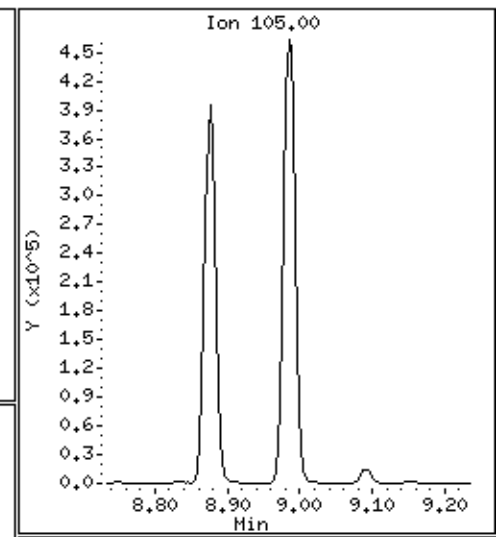
Column phase: DB-624

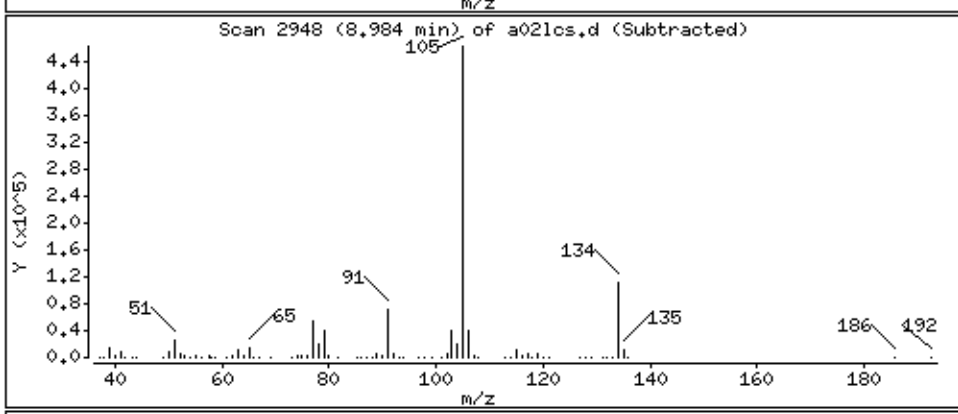
Column diameter: 0.18

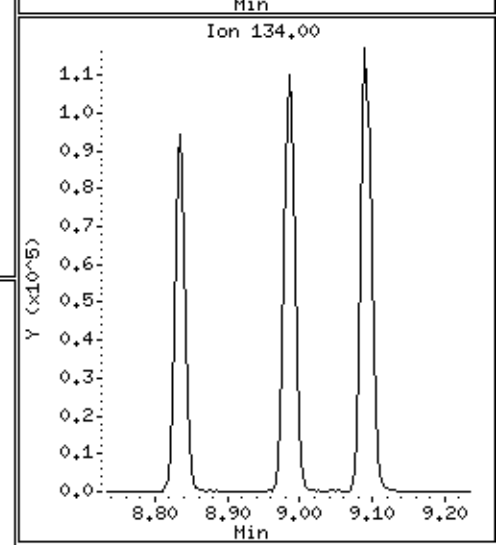
88 sec-Butylbenzene

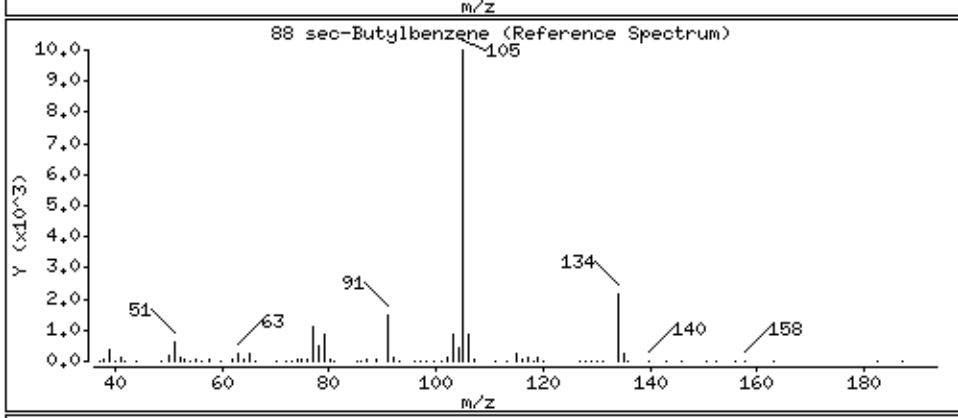
Concentration: 48.9 ppb

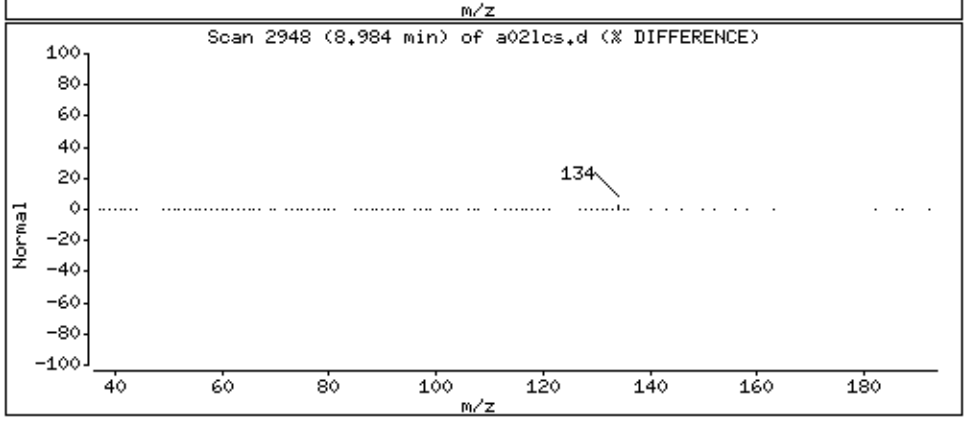












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

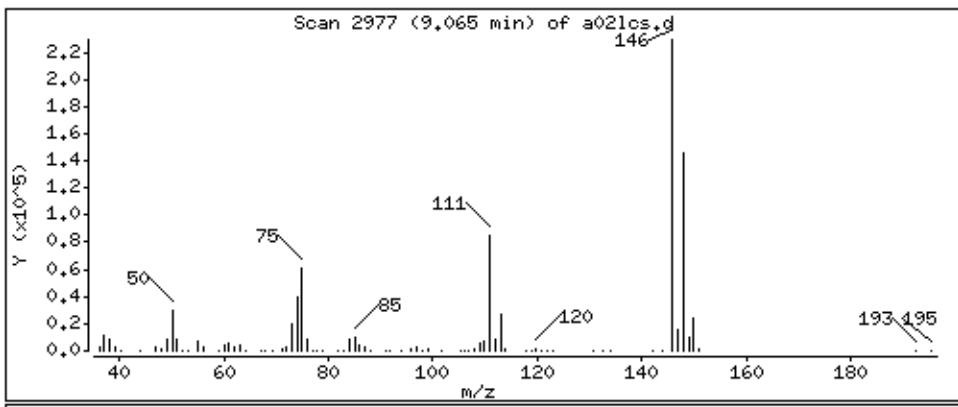
Operator: dae

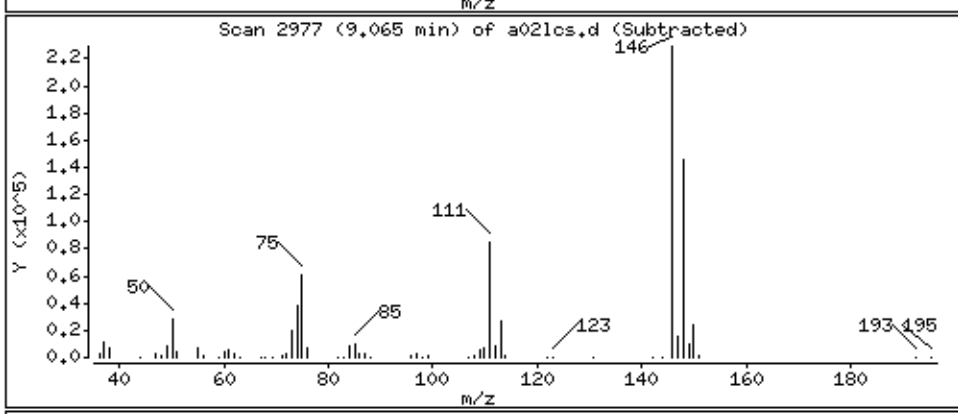
Column phase: DB-624

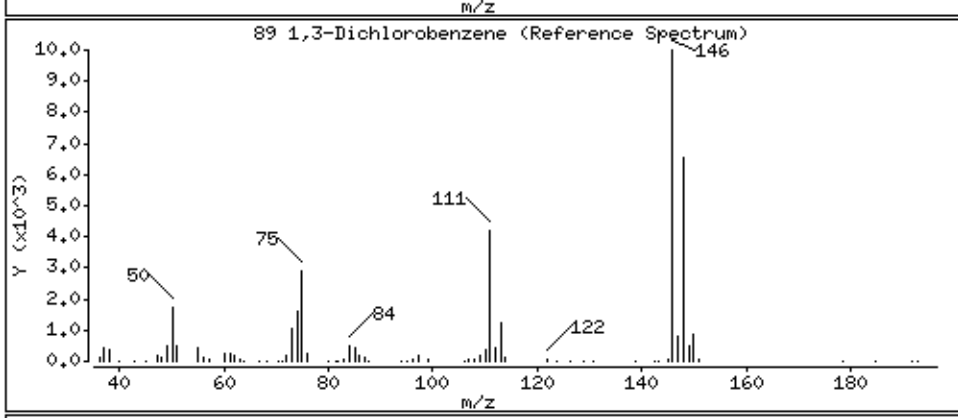
Column diameter: 0.18

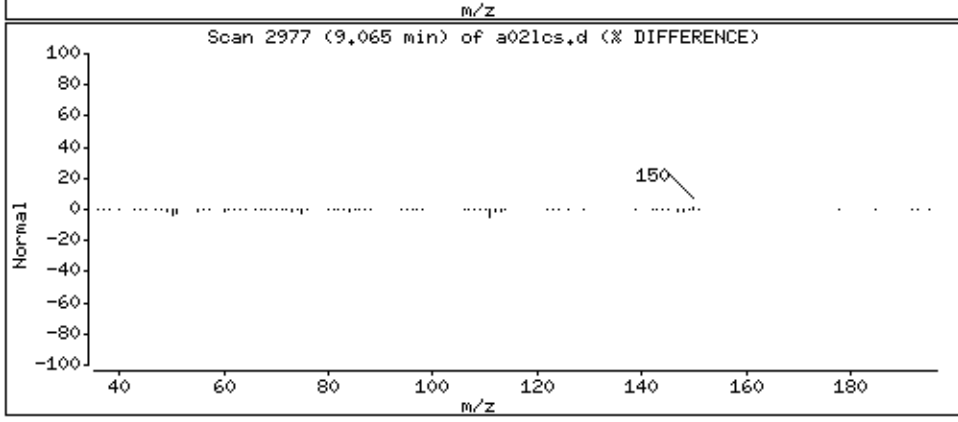
89 1,3-Dichlorobenzene

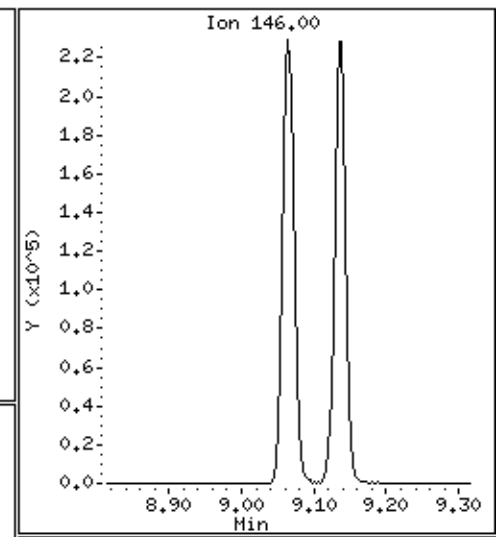
Concentration: 46.2 ppb

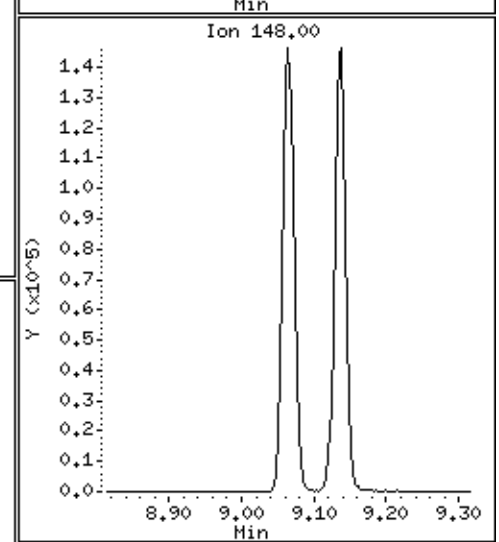


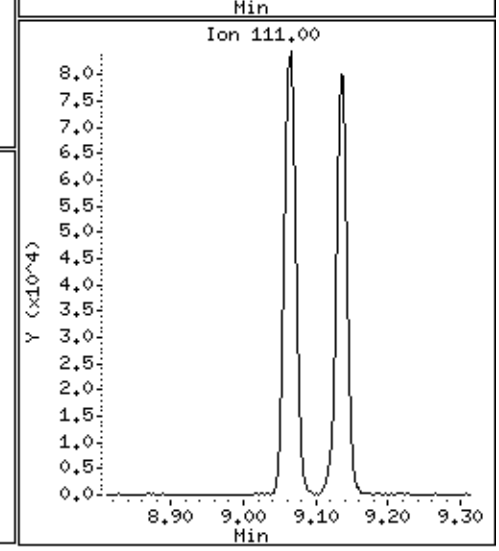












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

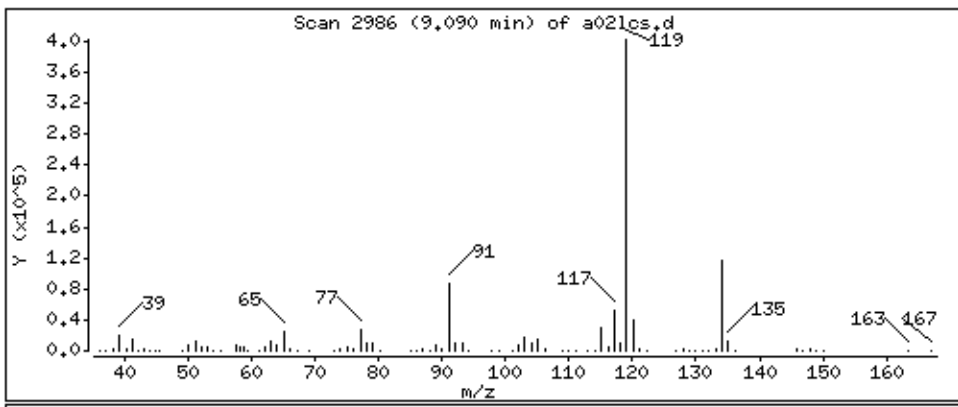
Operator: dae

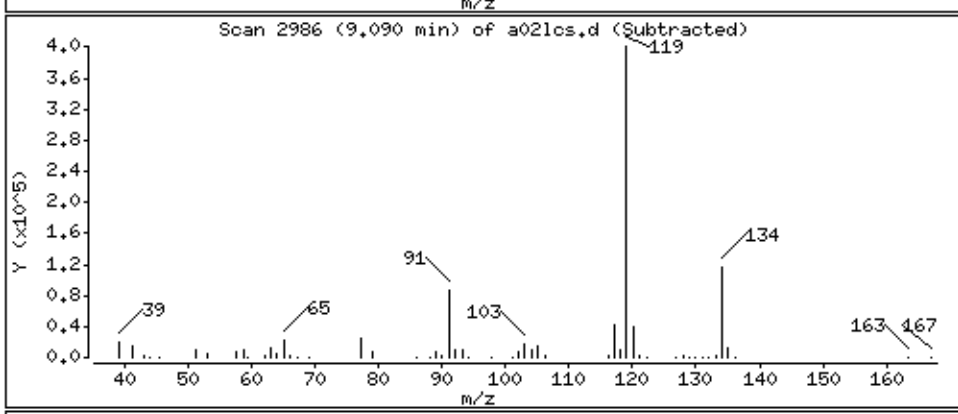
Column phase: DB-624

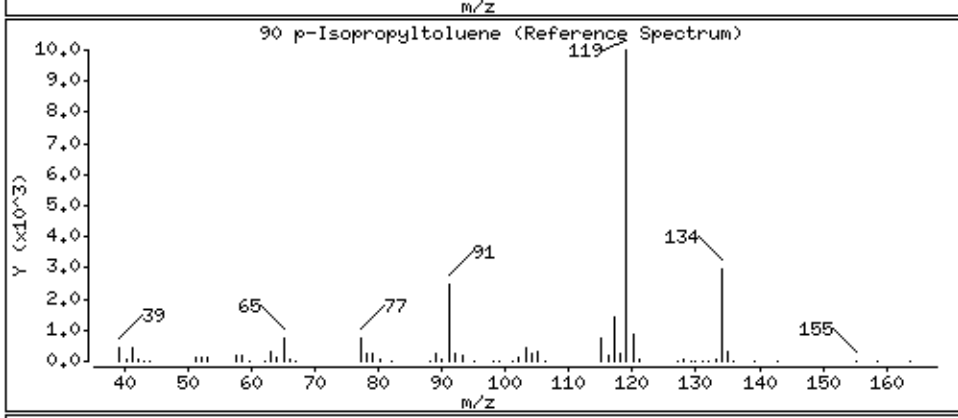
Column diameter: 0.18

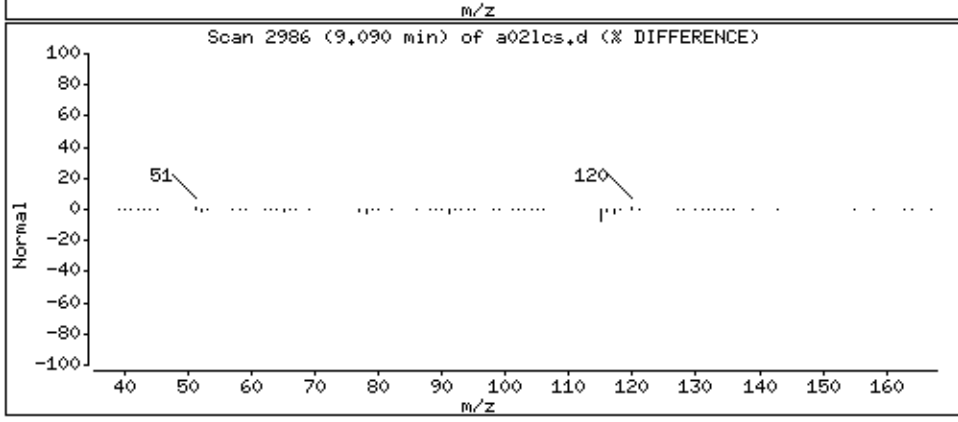
90 p-Isopropyltoluene

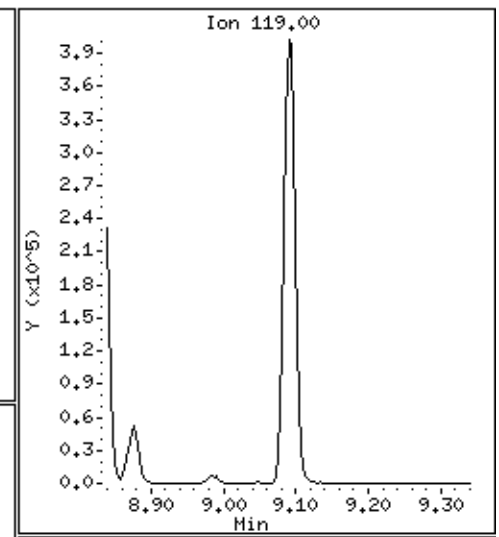
Concentration: 49.2 ppb

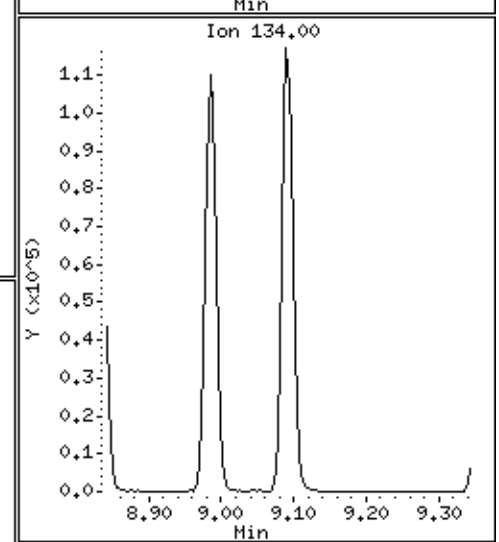


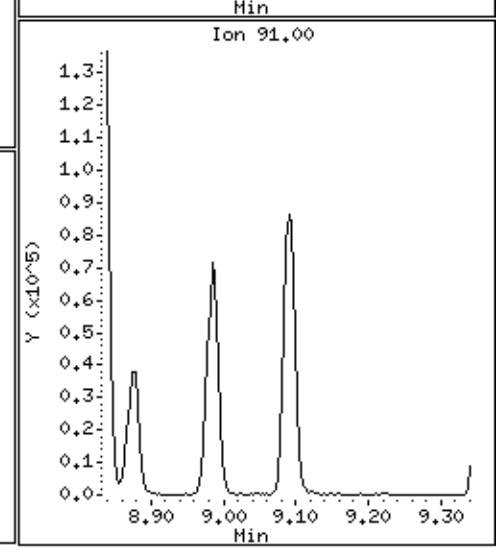












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

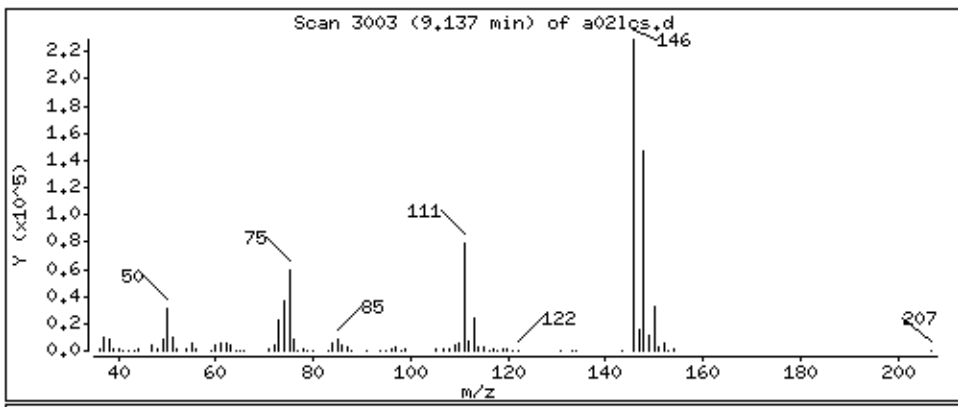
Operator: dae

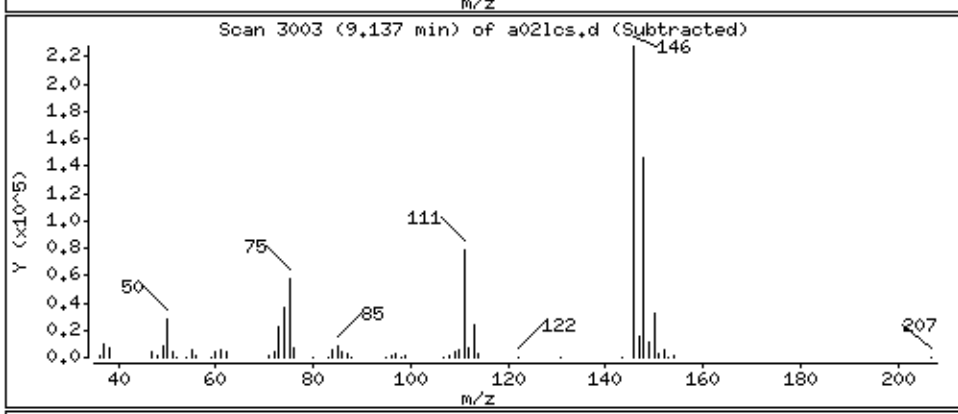
Column phase: DB-624

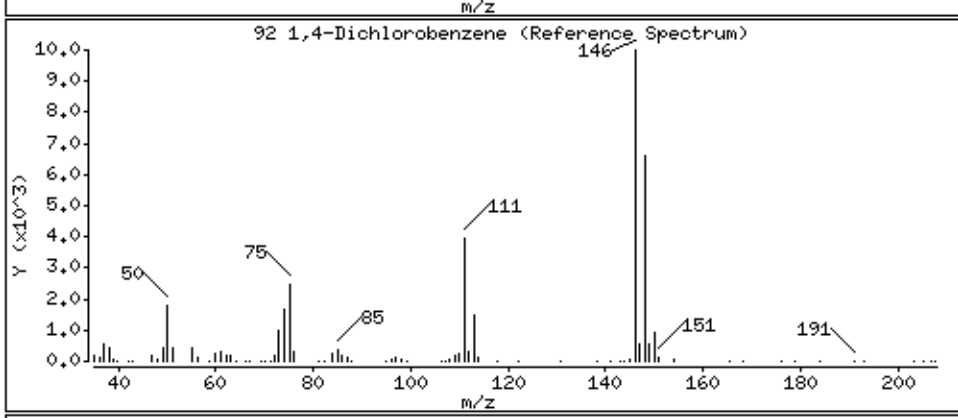
Column diameter: 0.18

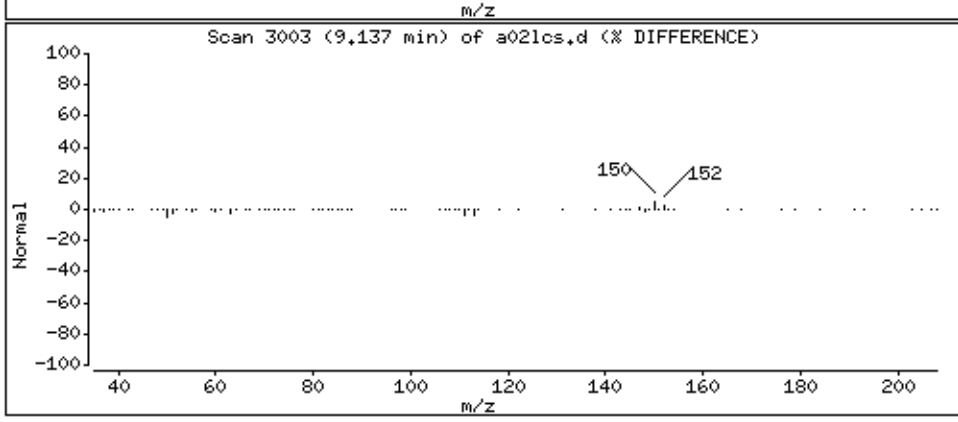
92 1,4-Dichlorobenzene

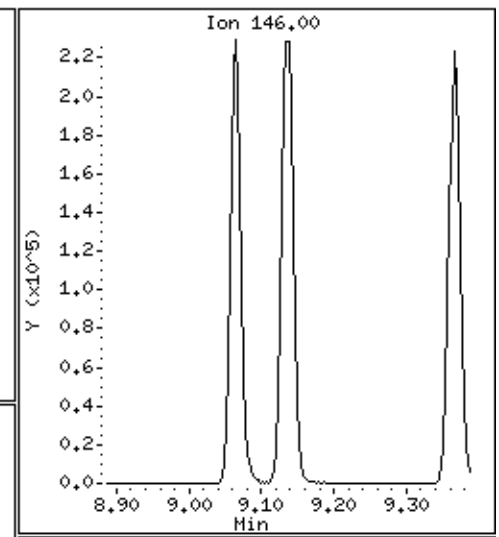
Concentration: 43.7 ppb

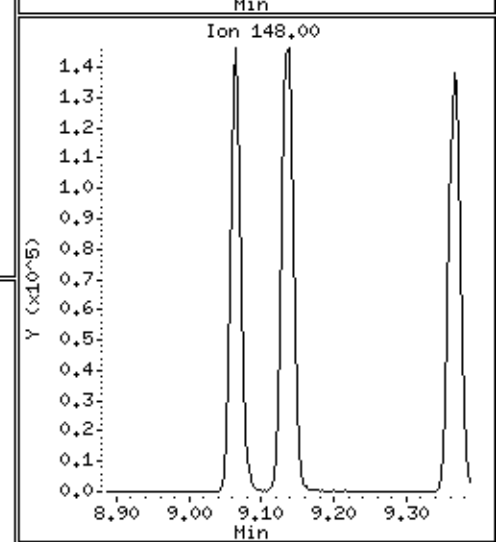


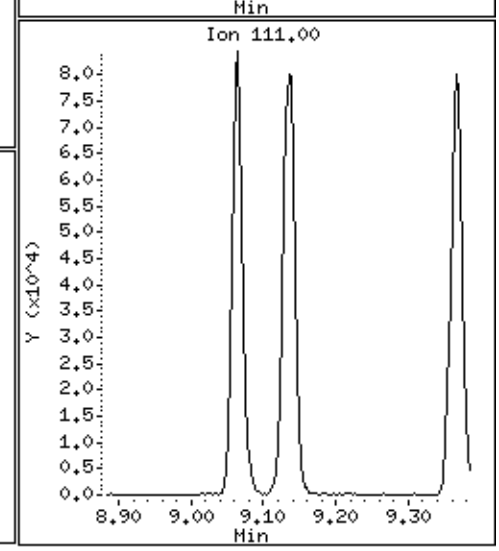












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

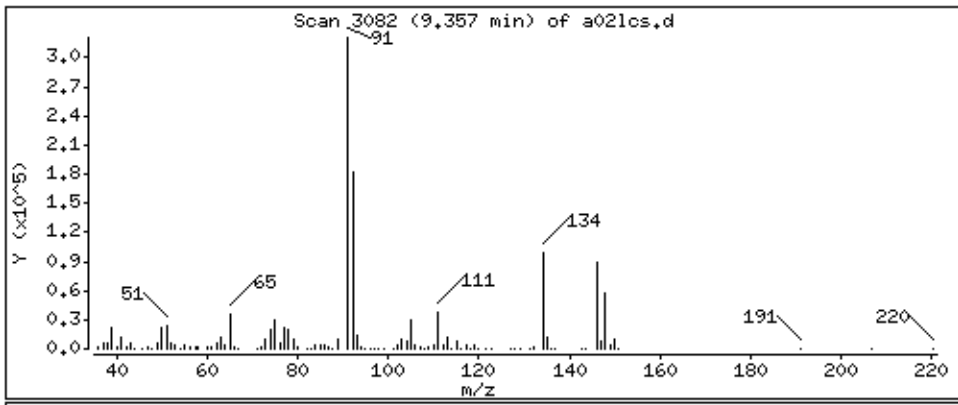
Operator: dae

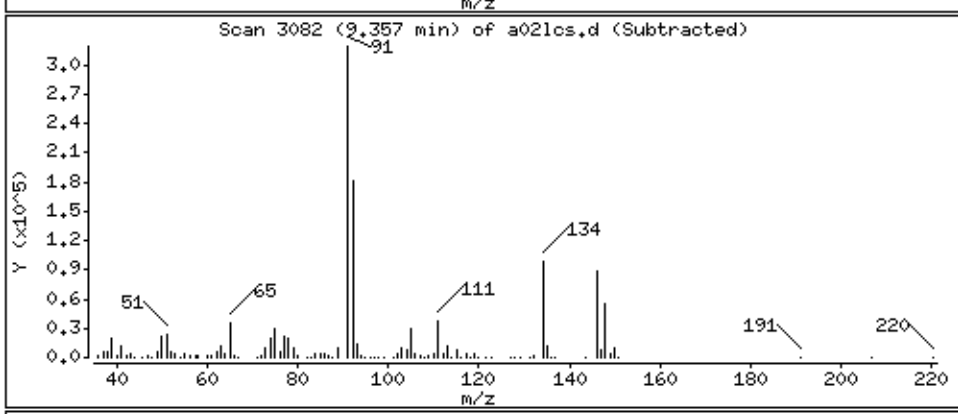
Column phase: DB-624

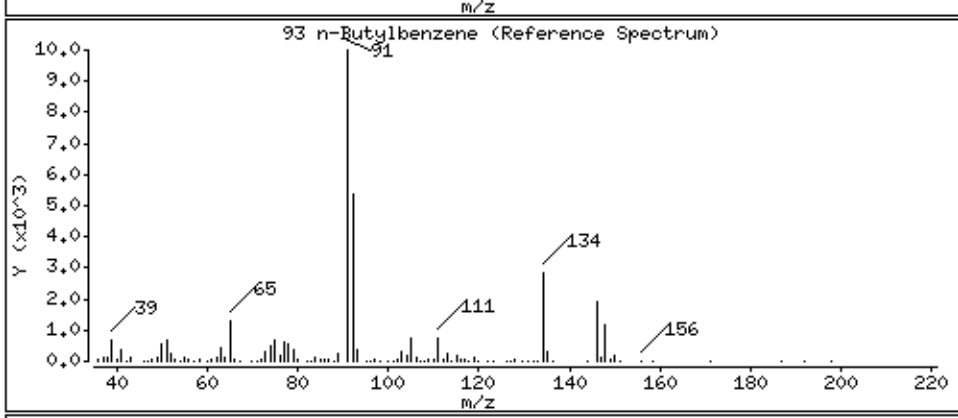
Column diameter: 0.18

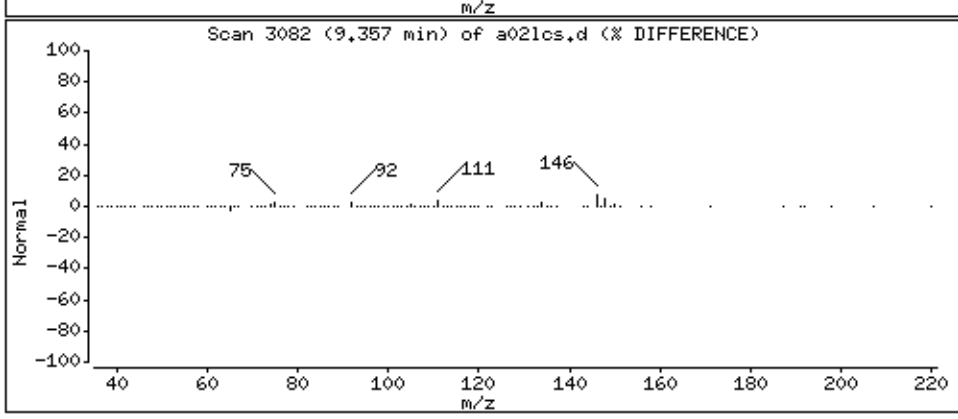
93 n-Butylbenzene

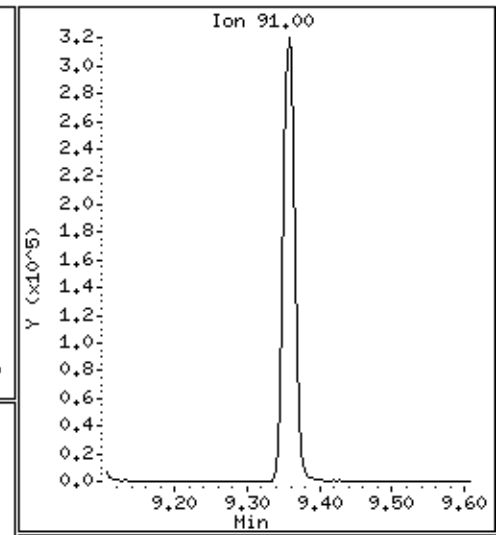
Concentration: 48.4 ppb

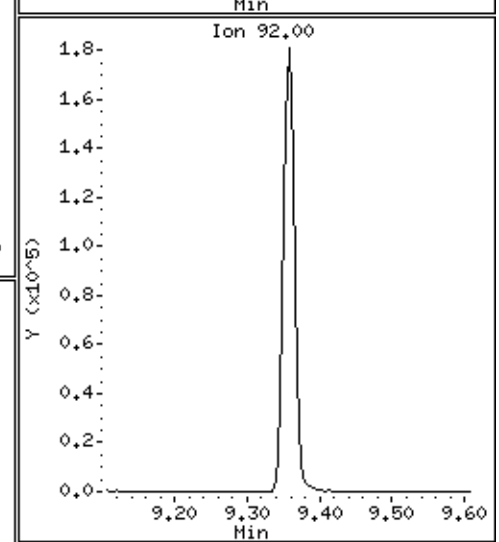


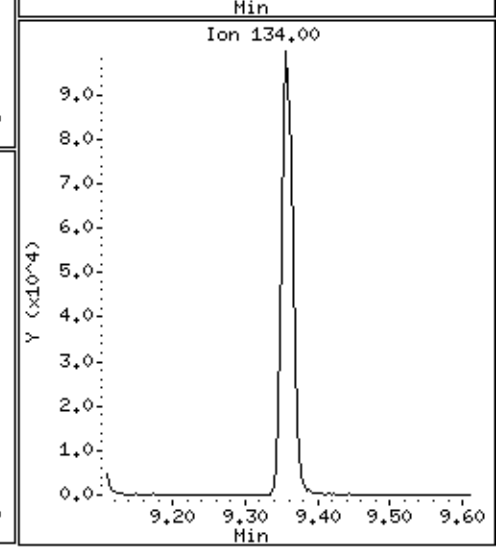












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

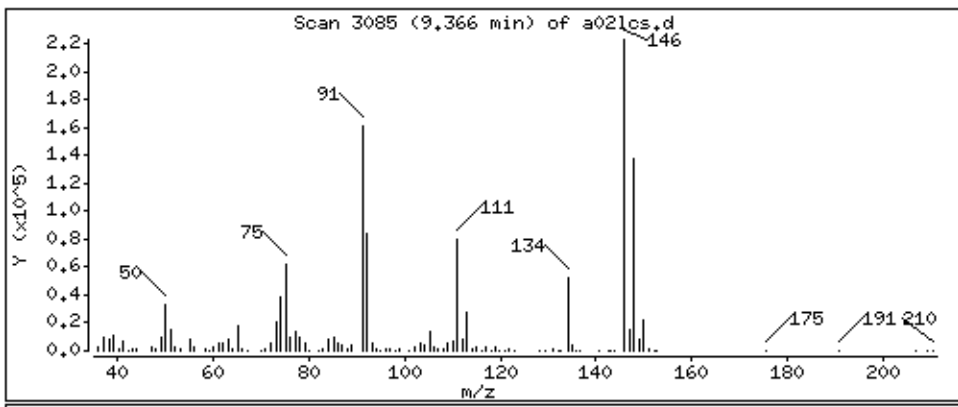
Operator: dae

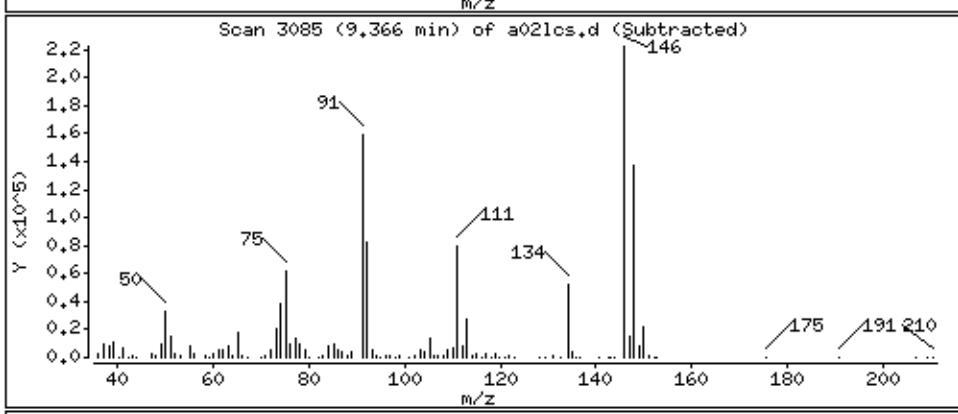
Column phase: DB-624

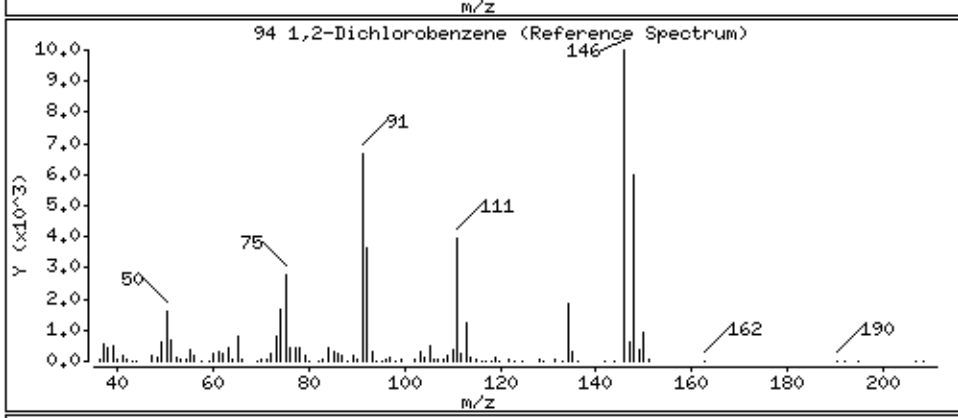
Column diameter: 0.18

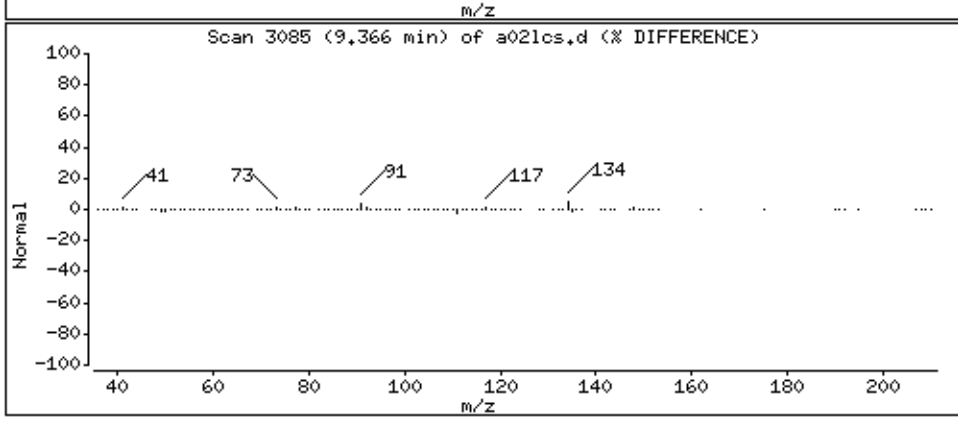
94 1,2-Dichlorobenzene

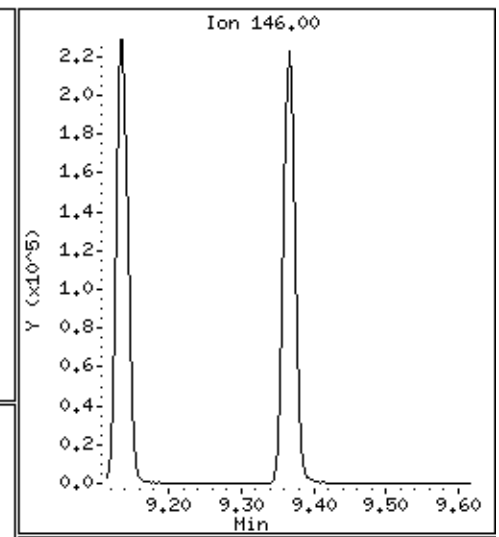
Concentration: 46.6 ppb

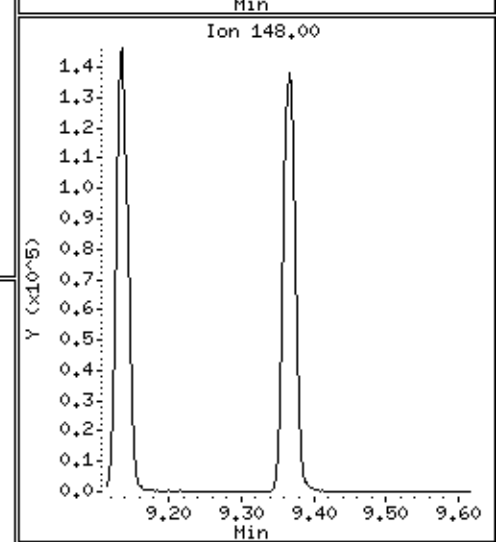


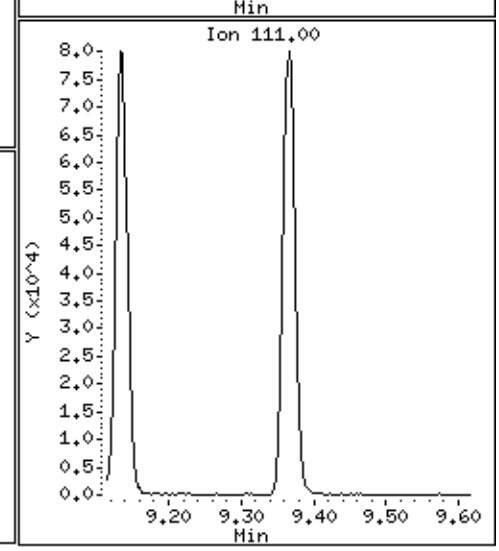












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\a02lcs.d

Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

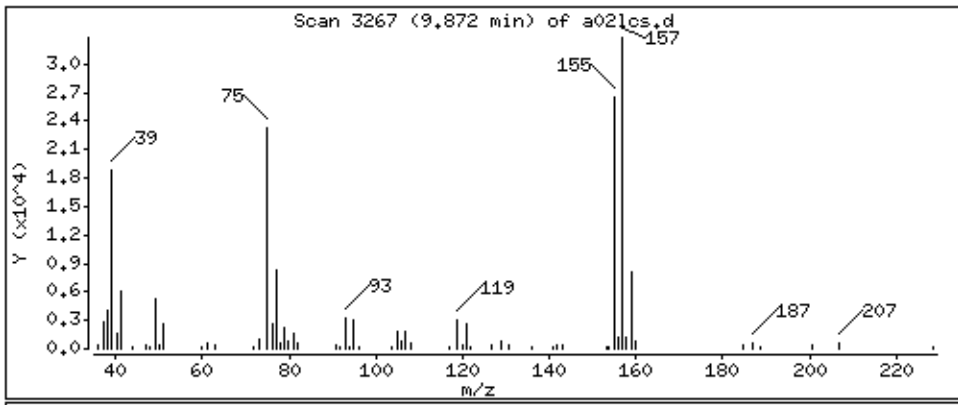
Operator: dae

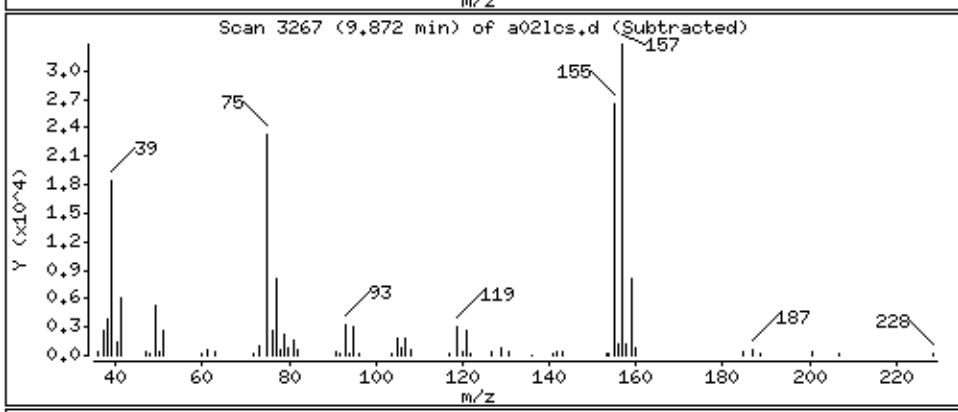
Column phase: DB-624

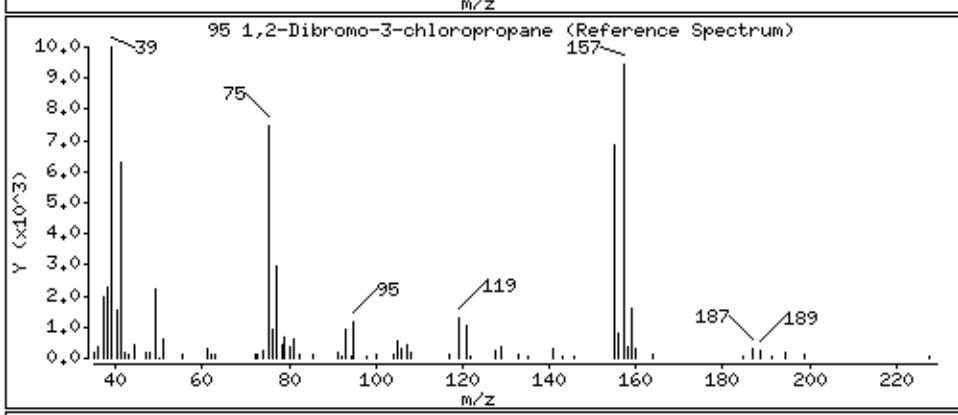
Column diameter: 0.18

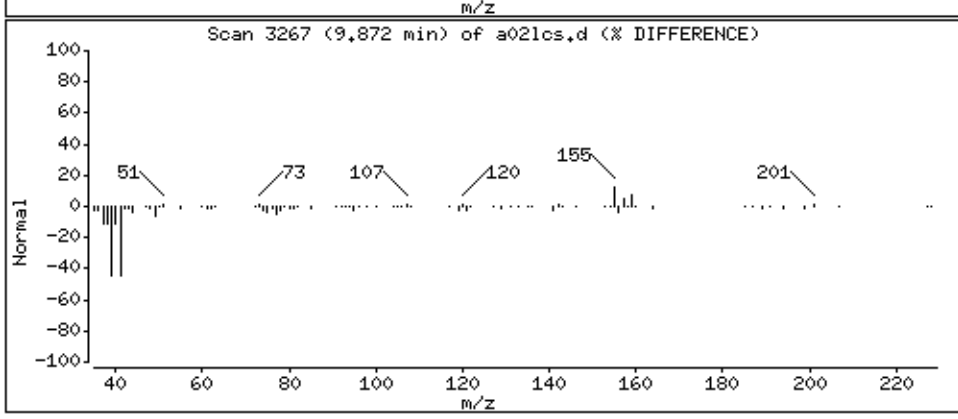
95 1,2-Dibromo-3-chloropropane

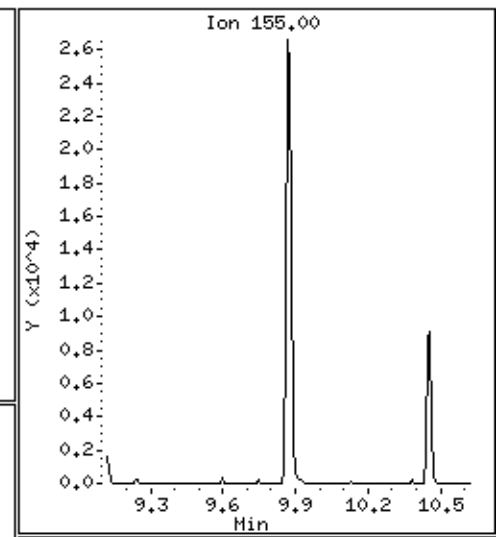
Concentration: 41.2 ppb

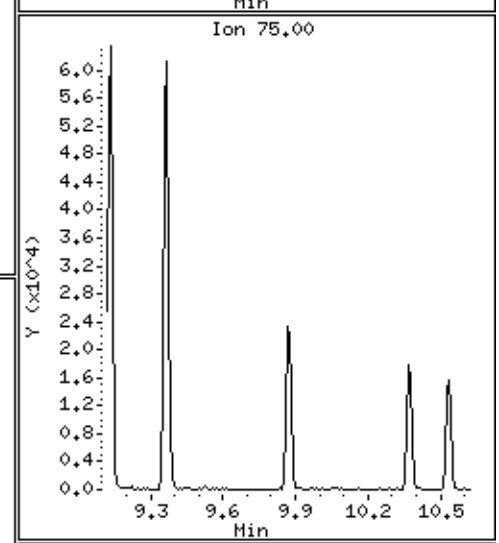


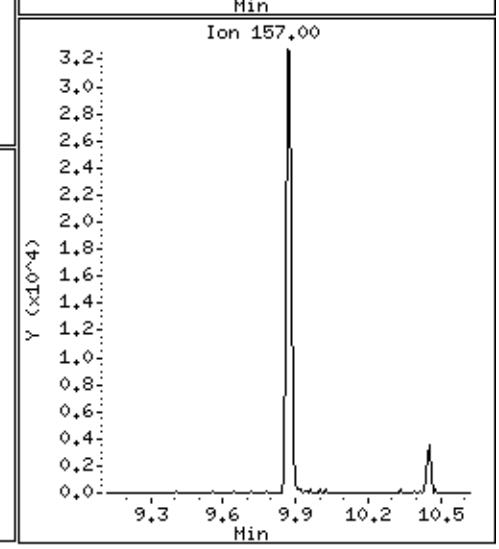












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

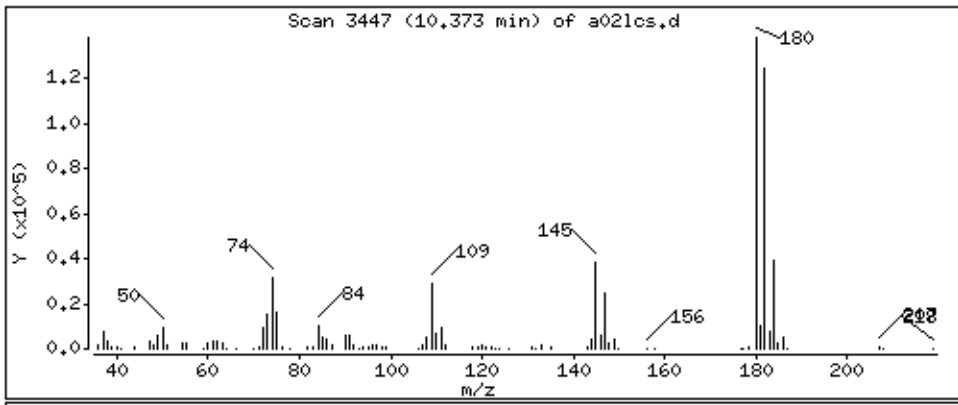
Operator: dae

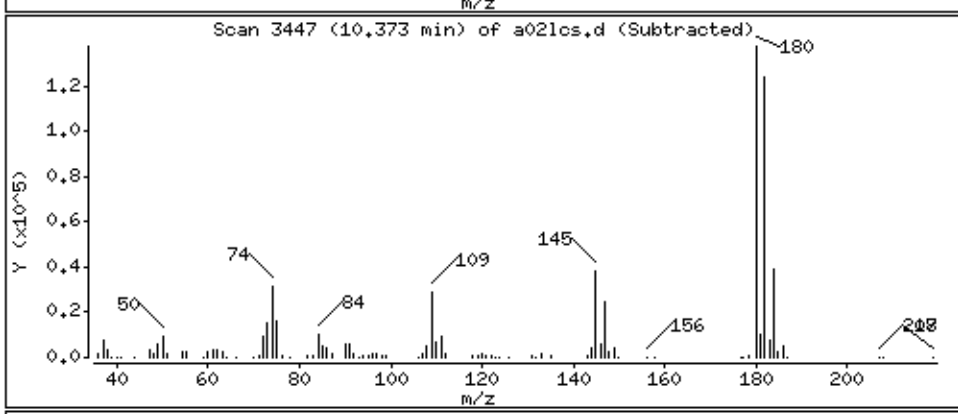
Column phase: DB-624

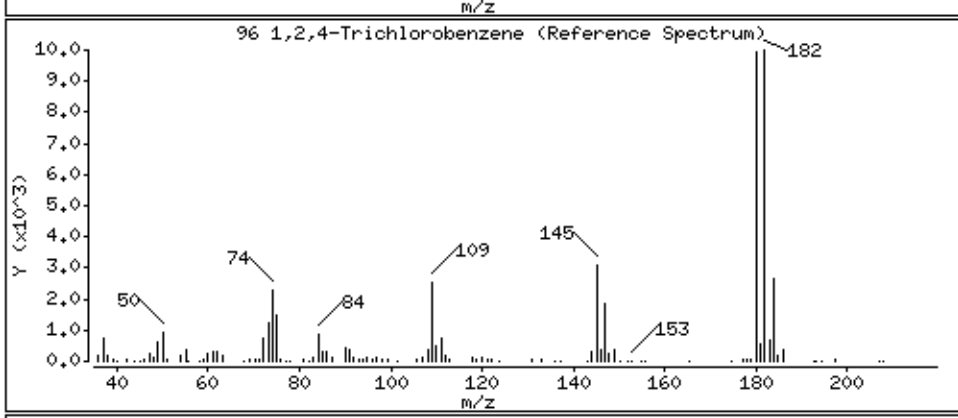
Column diameter: 0.18

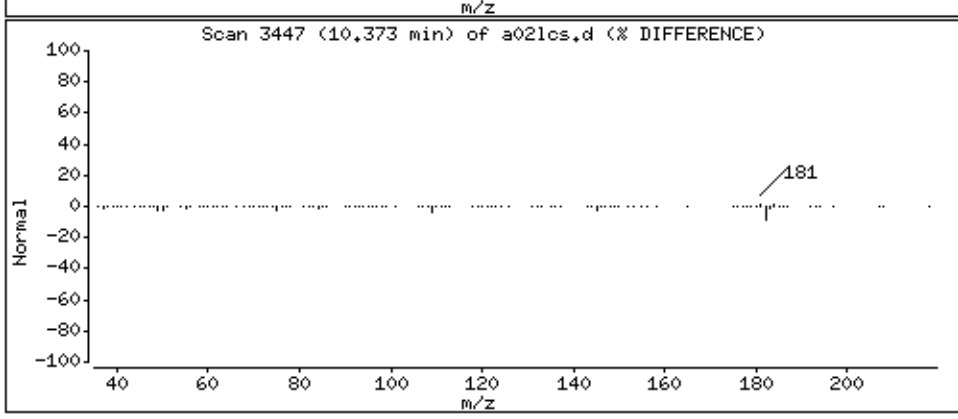
96 1,2,4-Trichlorobenzene

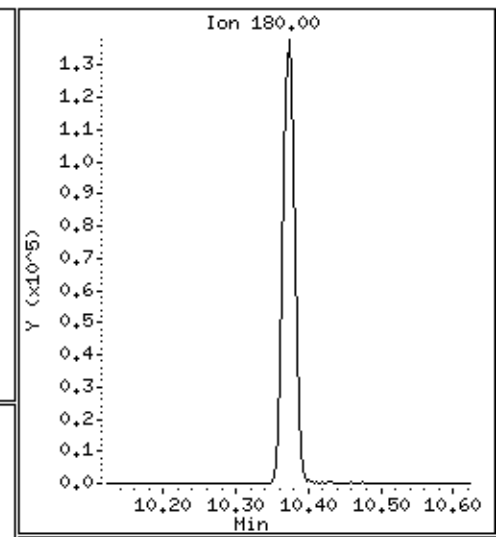
Concentration: 46.5 ppb

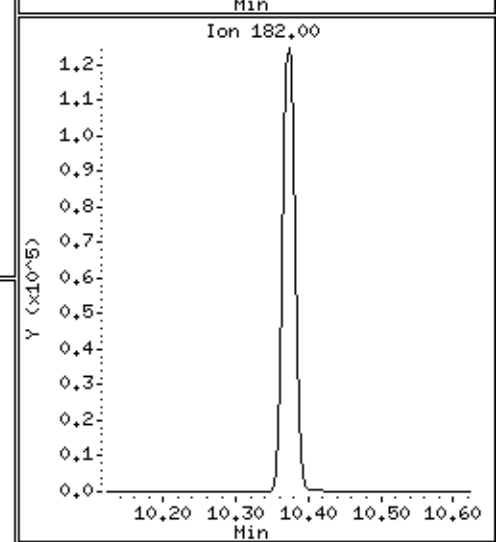


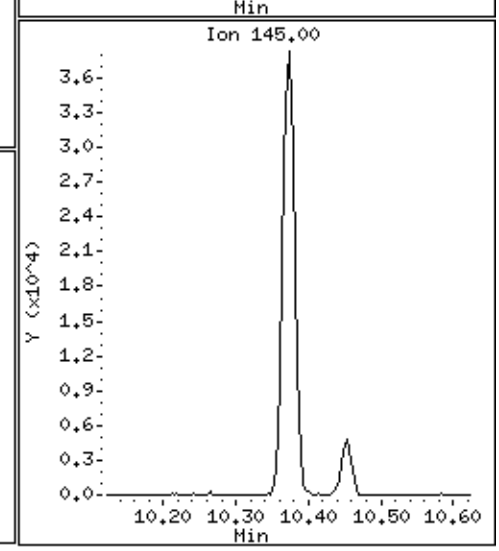












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

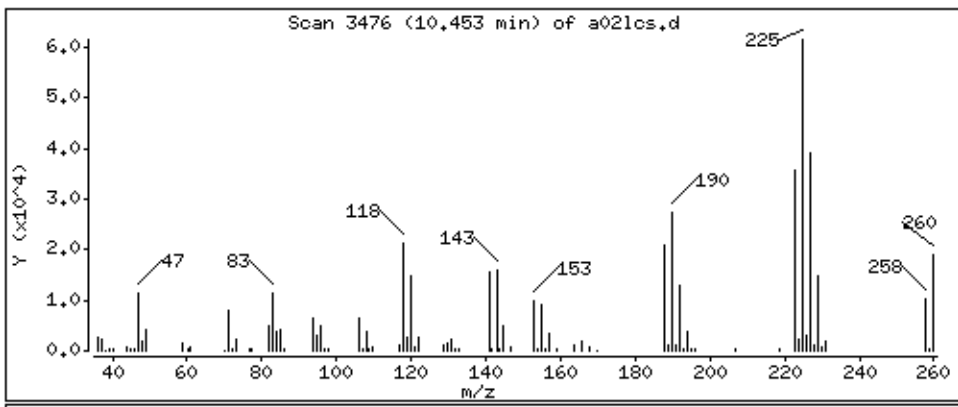
Operator: dae

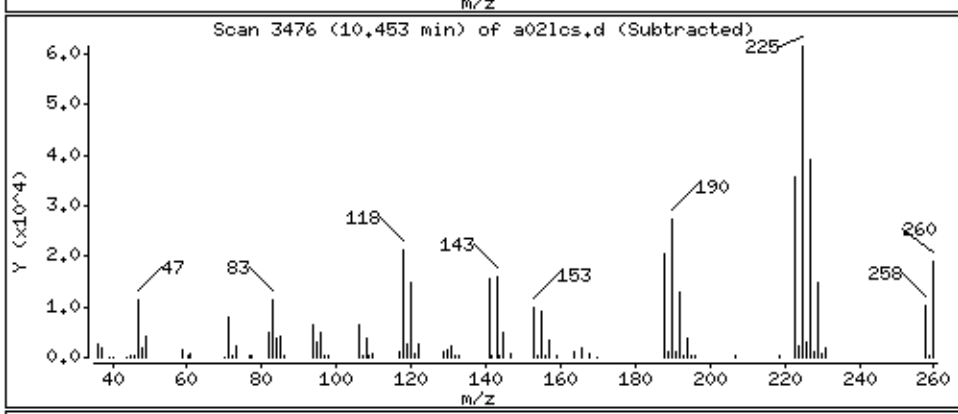
Column phase: DB-624

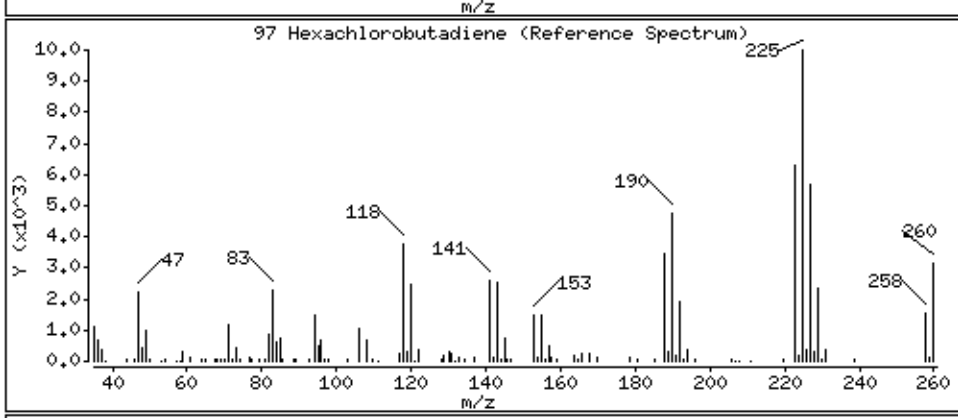
Column diameter: 0.18

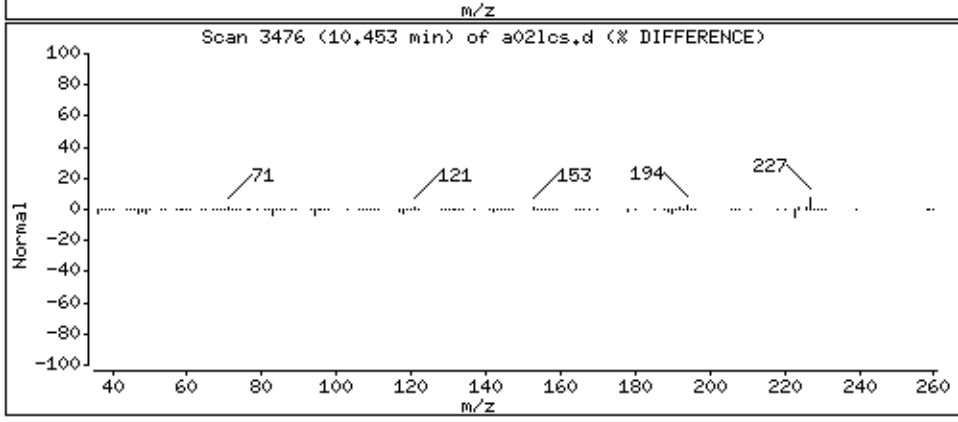
97 Hexachlorobutadiene

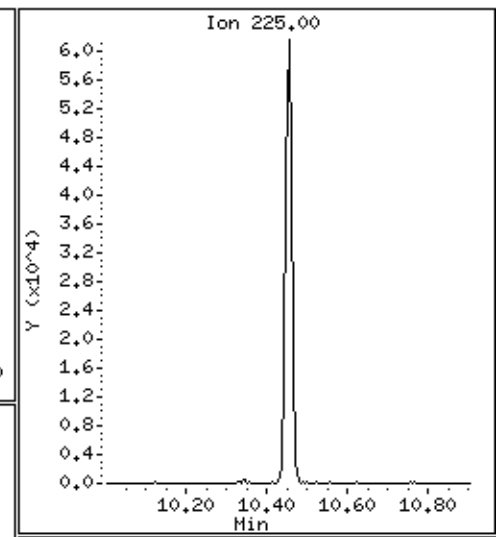
Concentration: 47.4 ppb

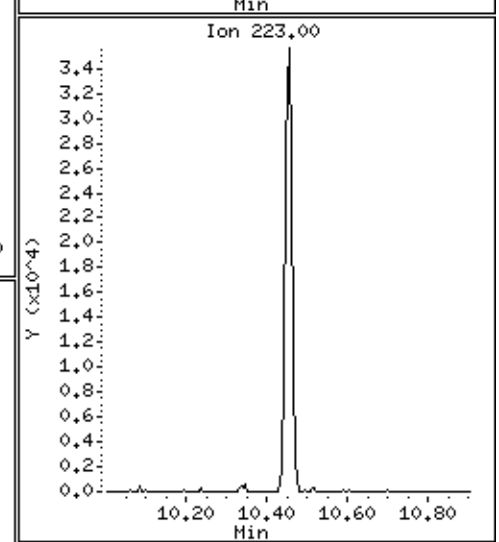


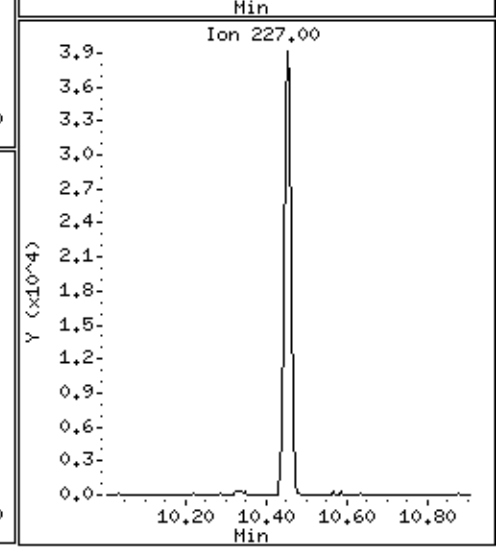












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

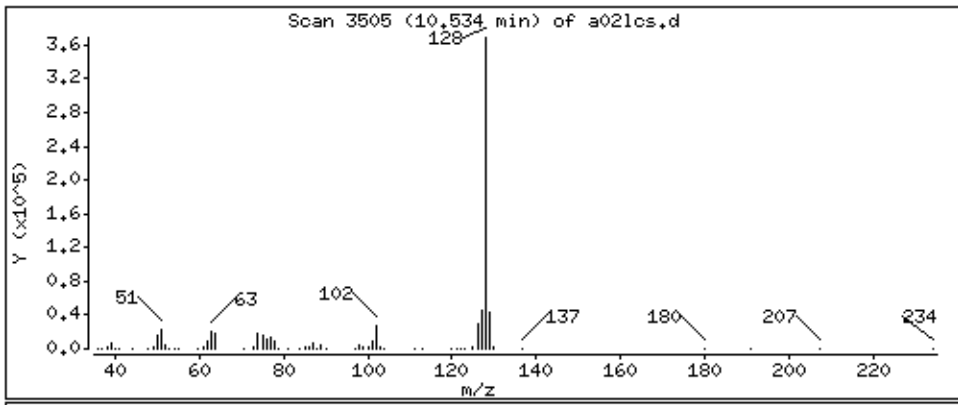
Operator: dae

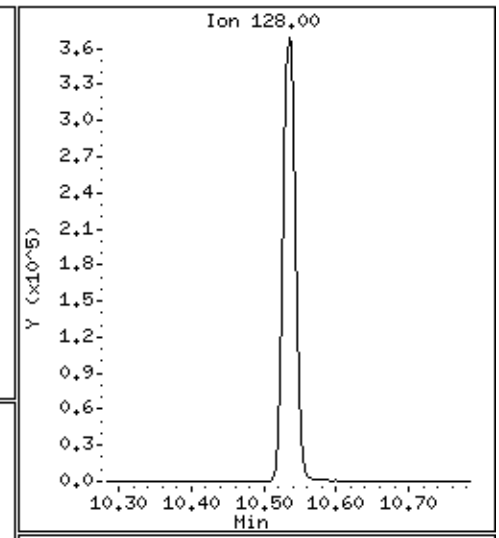
Column phase: DB-624

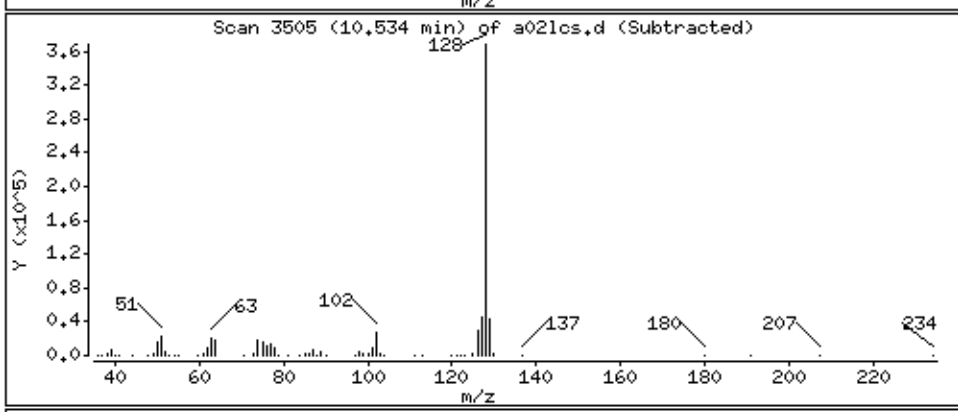
Column diameter: 0.18

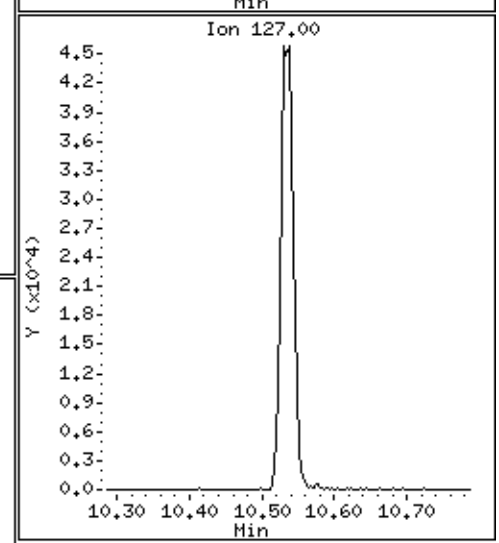
98 Naphthalene

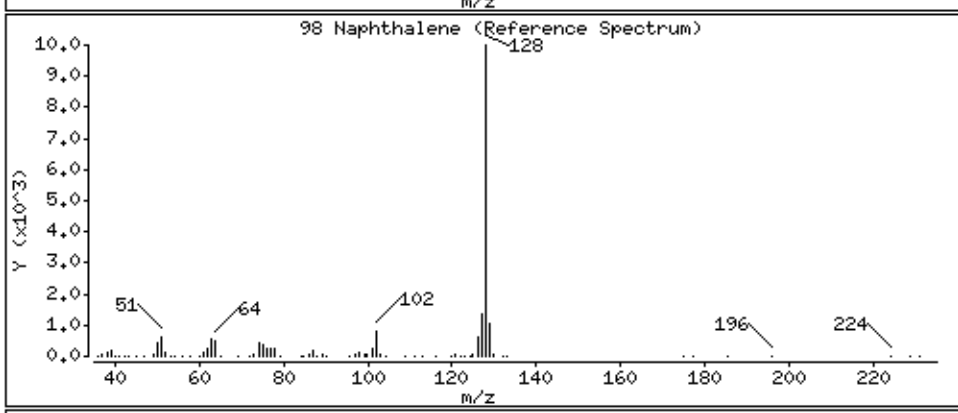
Concentration: 44.4 ppb

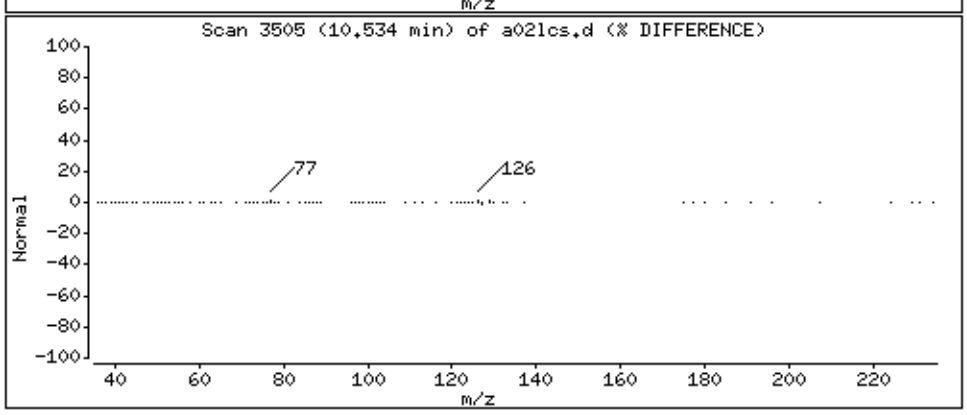












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

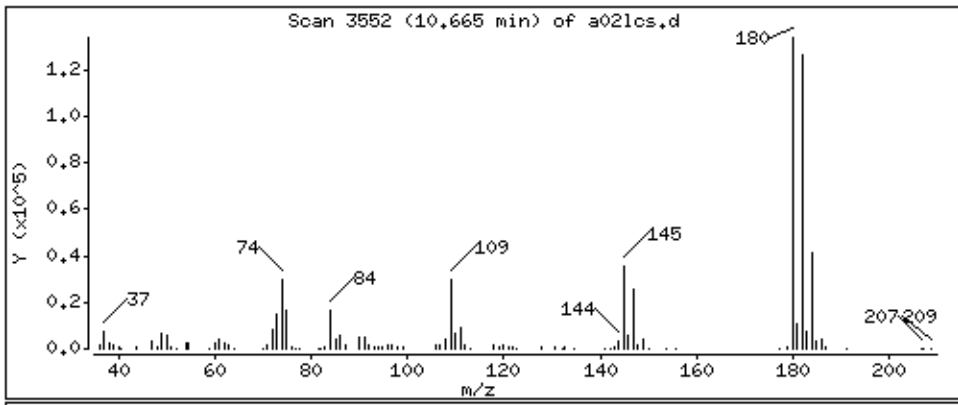
Operator: dae

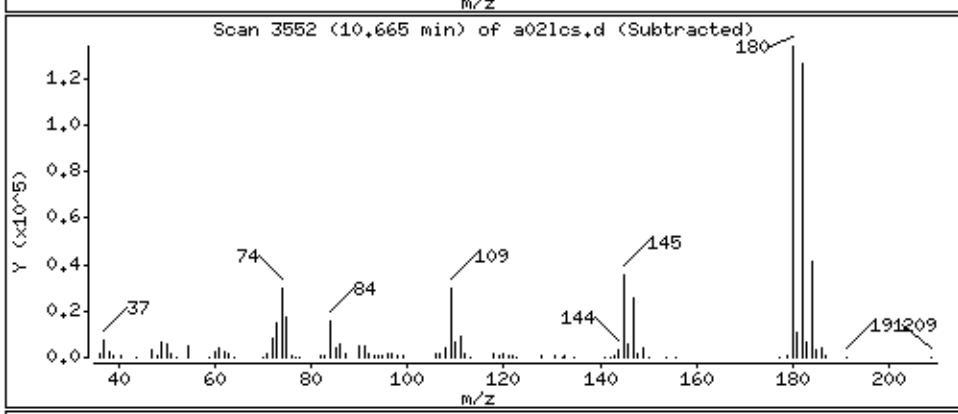
Column phase: DB-624

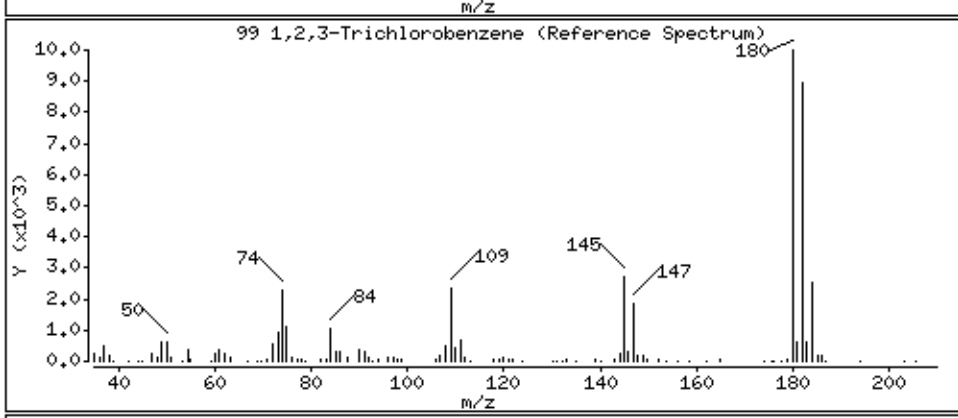
Column diameter: 0.18

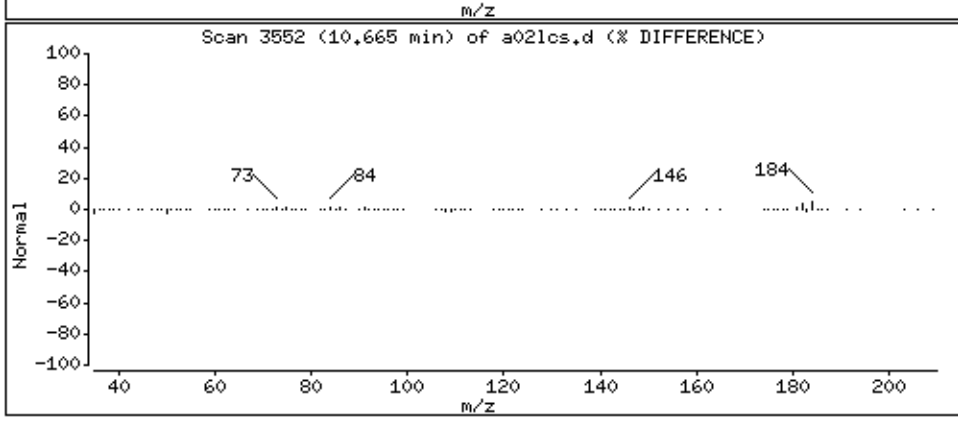
99 1,2,3-Trichlorobenzene

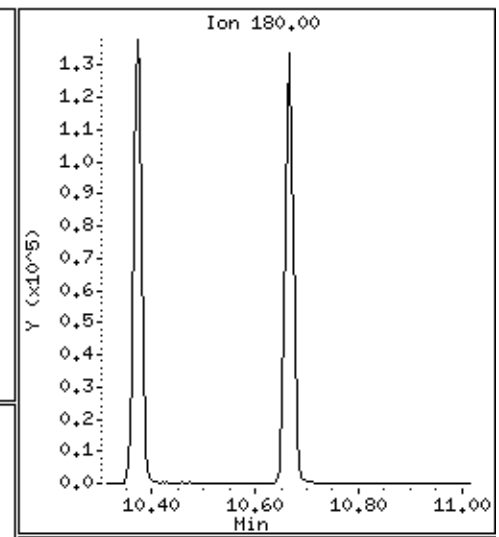
Concentration: 47.4 ppb

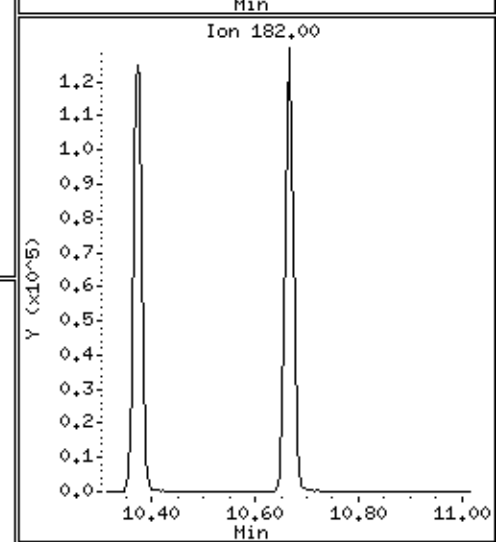


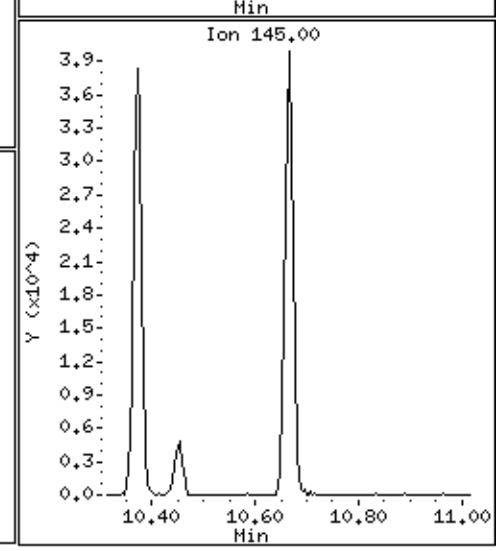












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

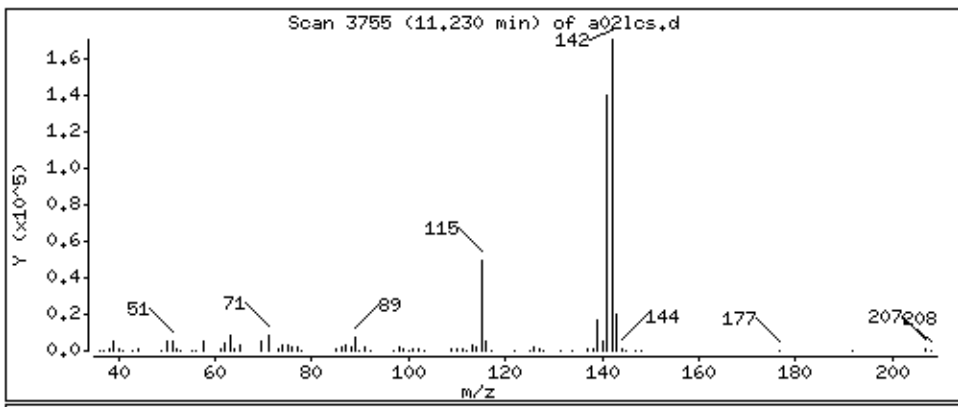
Operator: dae

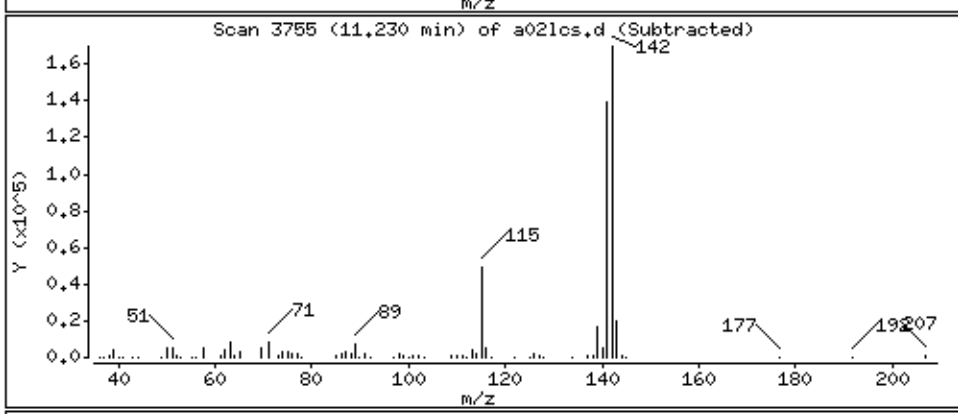
Column phase: DB-624

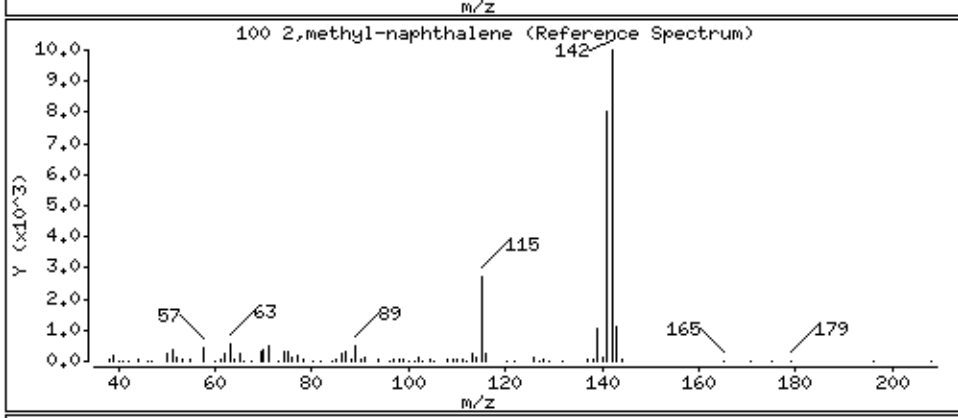
Column diameter: 0.18

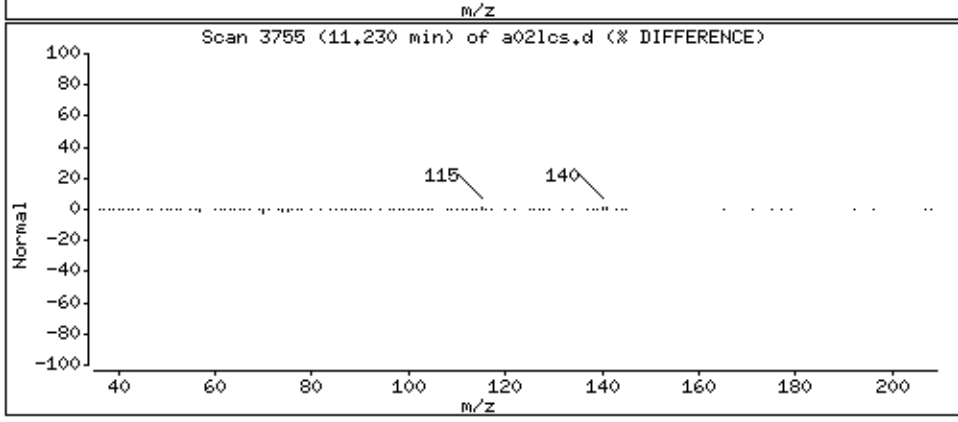
100 2,methyl-naphthalene

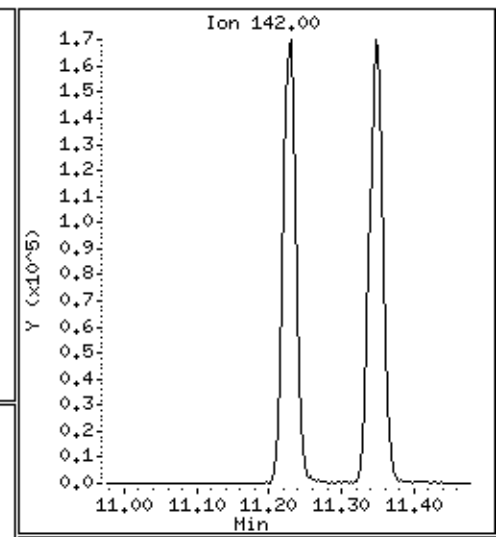
Concentration: 38.2 ppb

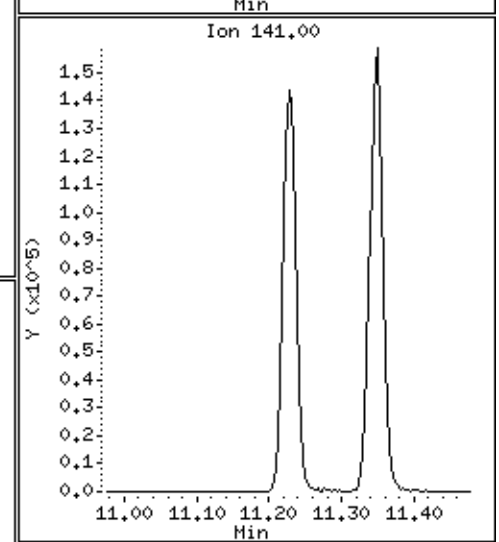


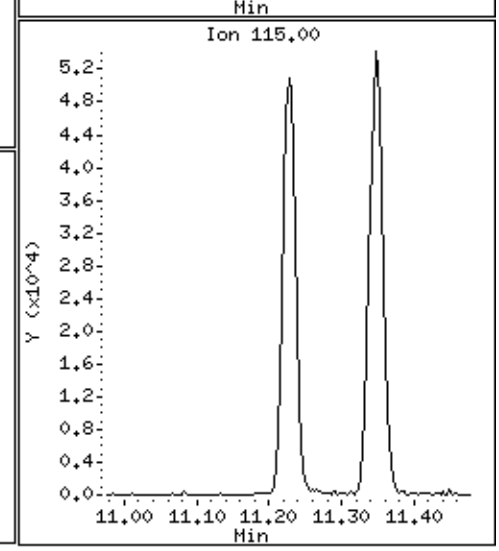












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Date : 24-JAN-2017 23:46

Client ID: 1713191,140393:5

Instrument: 50mv2a.i

Sample Info: 1713191,140393:5

Purge Volume: 5.0

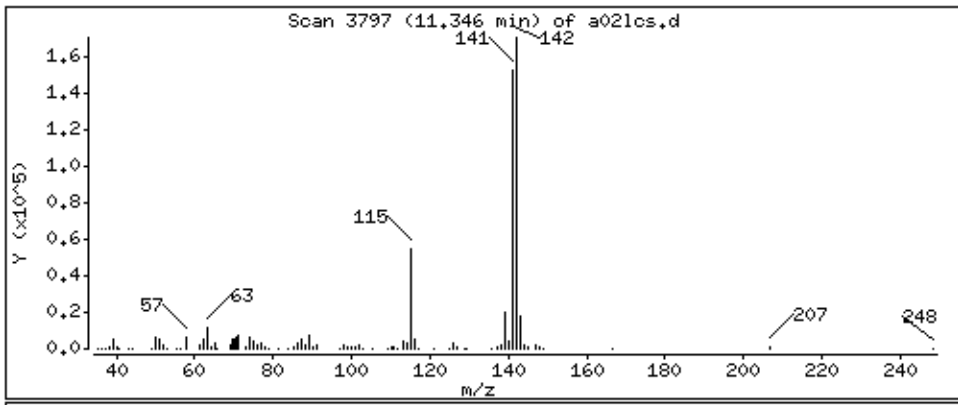
Operator: dae

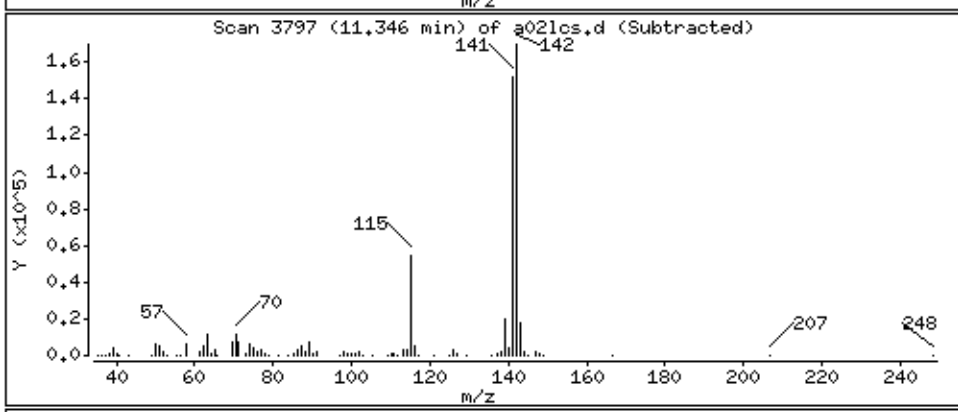
Column phase: DB-624

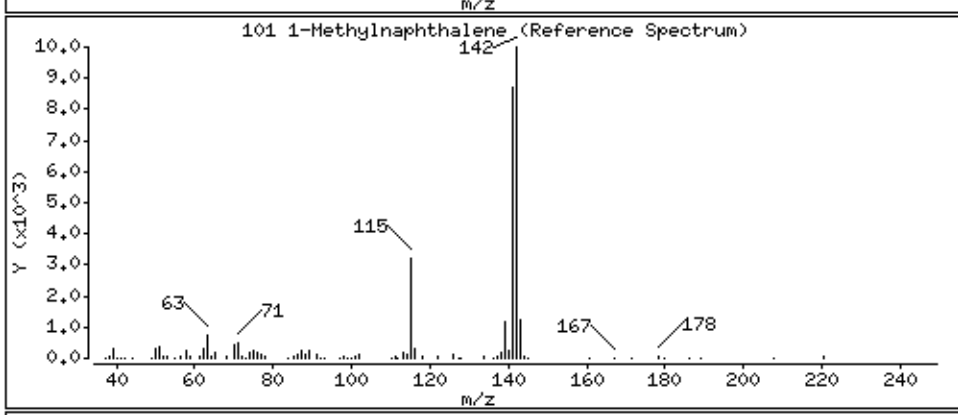
Column diameter: 0.18

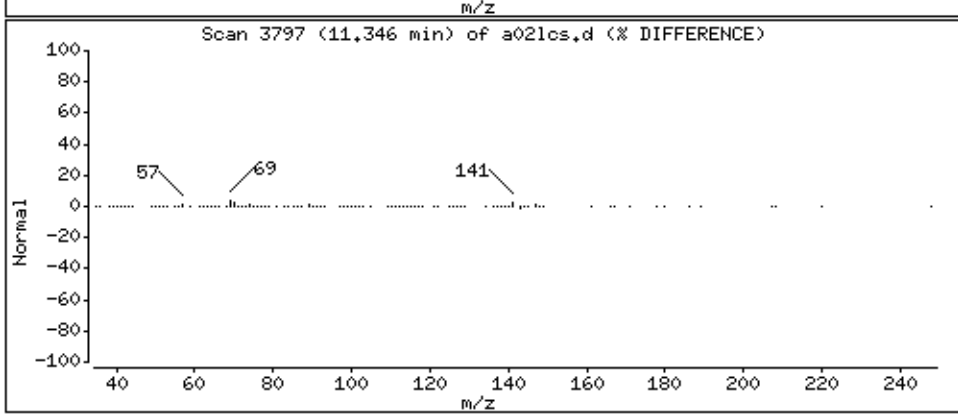
101 1-Methylnaphthalene

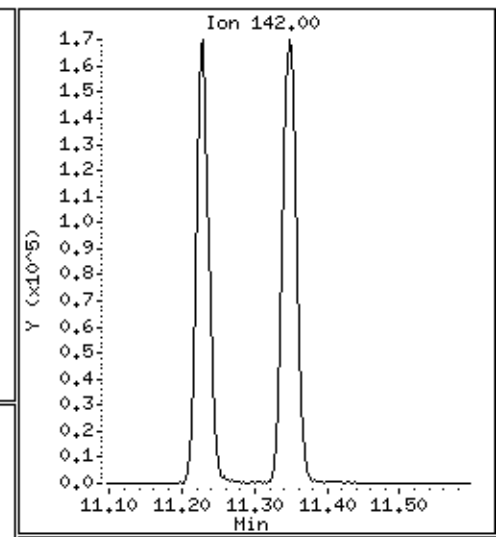
Concentration: 46.7 ppb

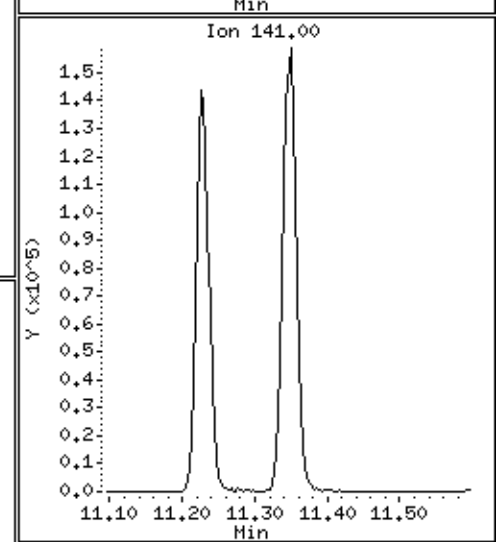


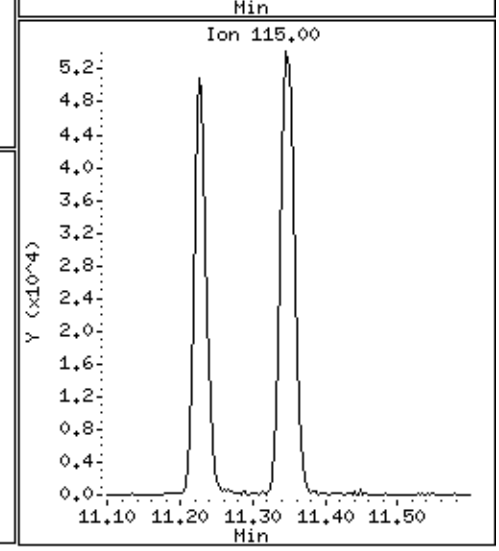












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/a02lcs.d
Injection Date: 24-JAN-2017 23:46
Instrument: 50mv2a.i
Lab Sample ID: 1713191,140393:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

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MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 12:56
Lab Sample ID: 1713801
Date Analyzed: 01/25/2017 12:56
Lab File ID: A012417.B\C04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 12:56
Lab Sample ID: 1713801
Date Analyzed: 01/25/2017 12:56
Lab File ID: A012417.B\C04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U
179601-23-1	m&p-Xylene	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c04mb.d
Lab Smp Id: 1713801 Client Smp ID: MB
Inj Date : 25-JAN-2017 12:56
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713801
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 27 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

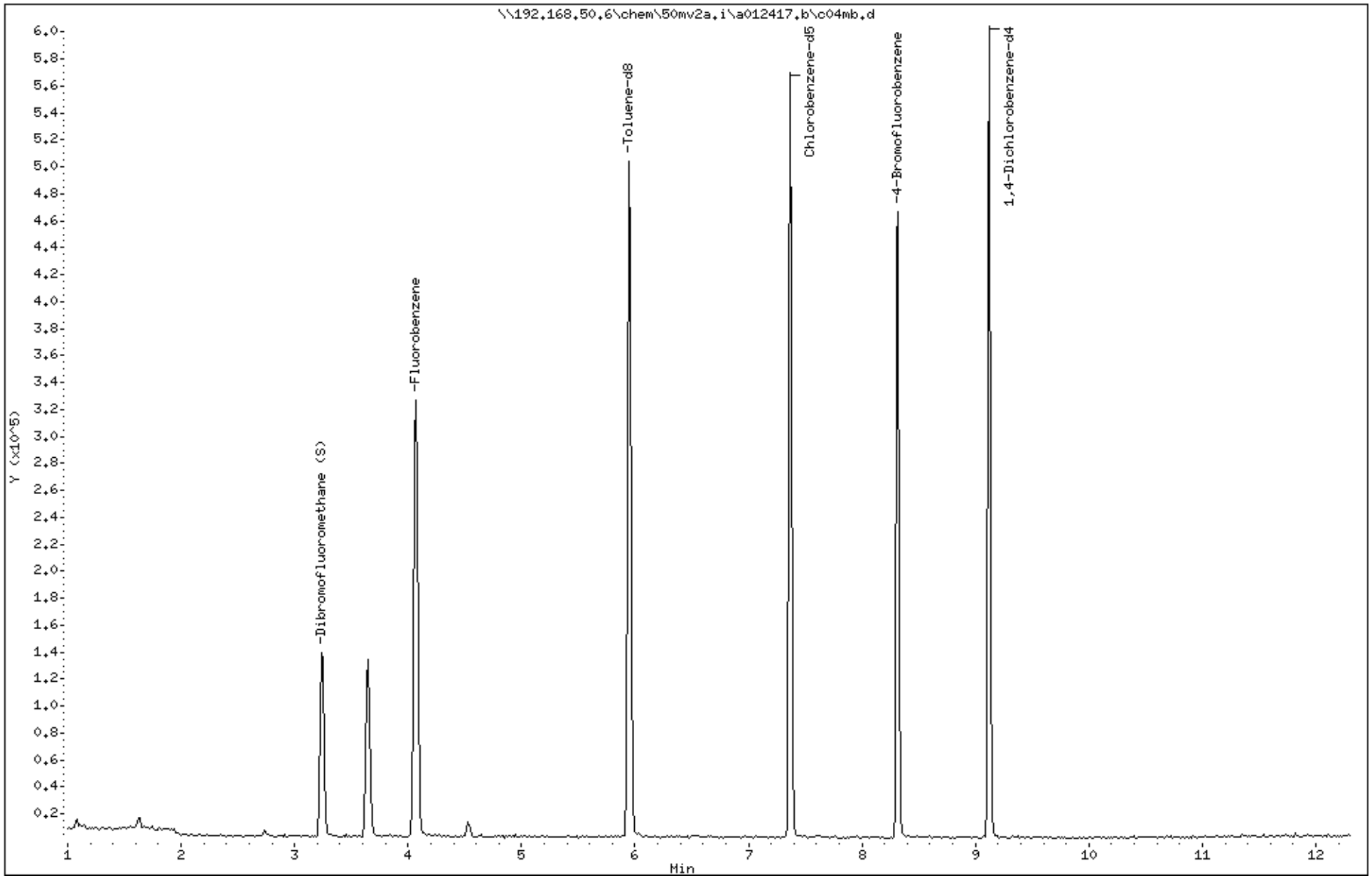
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
13 Iodomethane	142	1.630	1.625	(0.401)	4860	2.44271	2.44	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.796)	75125	47.8173	47.8	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	311495	50.0000		
47 Trichloroethene	95	4.527	4.527	(1.113)	3561	1.73077	1.73	
$ 57 Toluene-d8	98	5.946	5.946	(0.807)	296459	50.2879	50.3	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	227076	50.0000		
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	98889	48.9750	49.0	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.118	(1.000)	110873	50.0000		

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c04mb.d
Date : 25-JAN-2017 12:56
Client ID: MB
Sample Info: 1713801
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c04mb.d

Date : 25-JAN-2017 12:56

Client ID: MB

Instrument: 50mv2a.i

Sample Info: 1713801

Purge Volume: 5.0

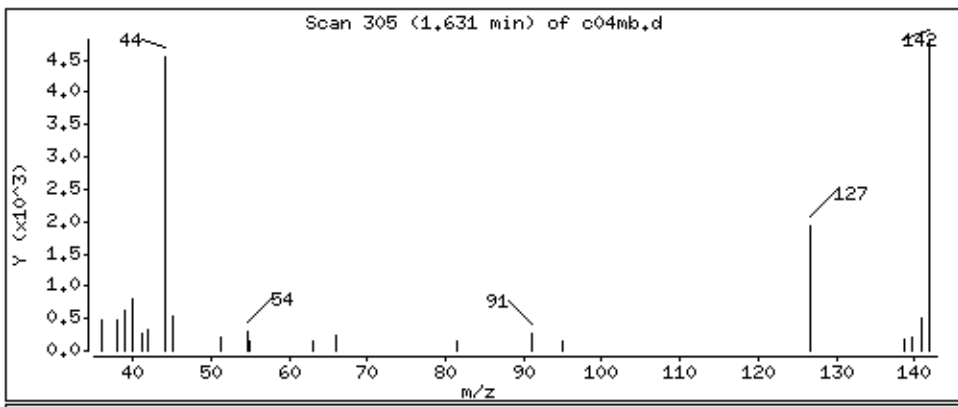
Operator: dae

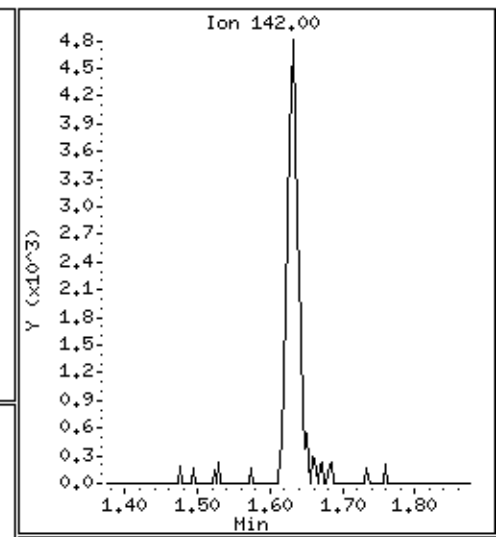
Column phase: DB-624

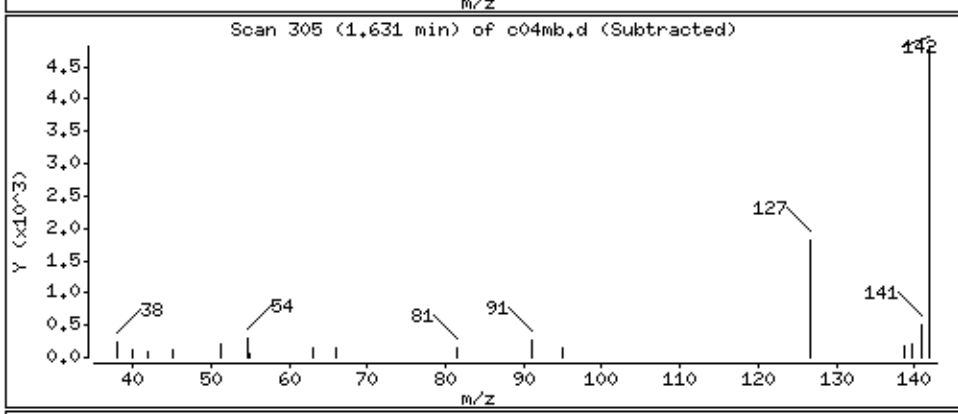
Column diameter: 0.18

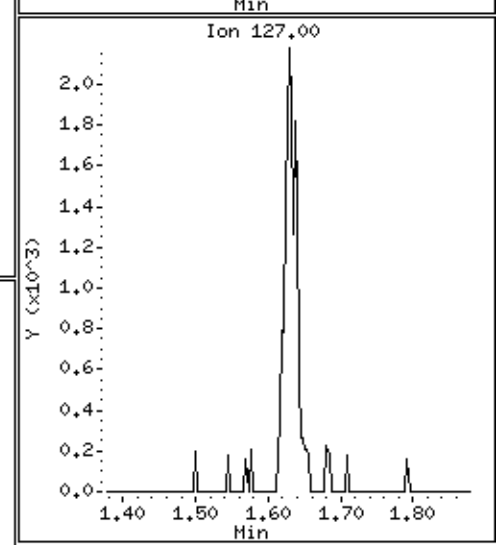
13 Iodomethane

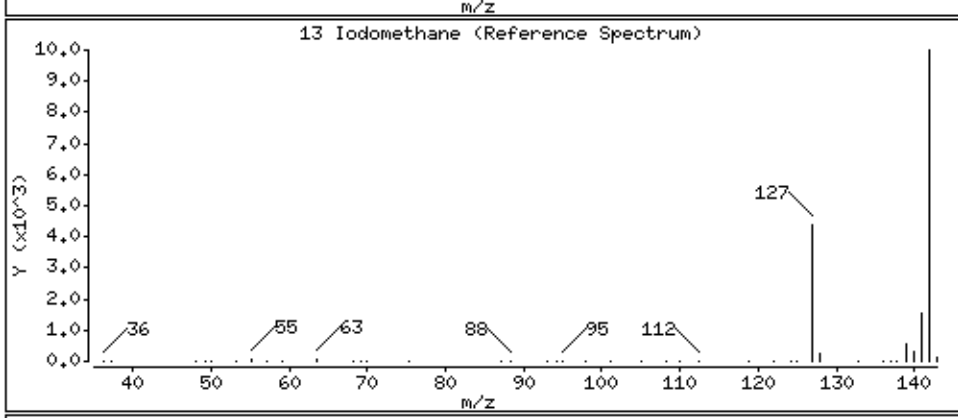
Concentration: 2.44 ppb

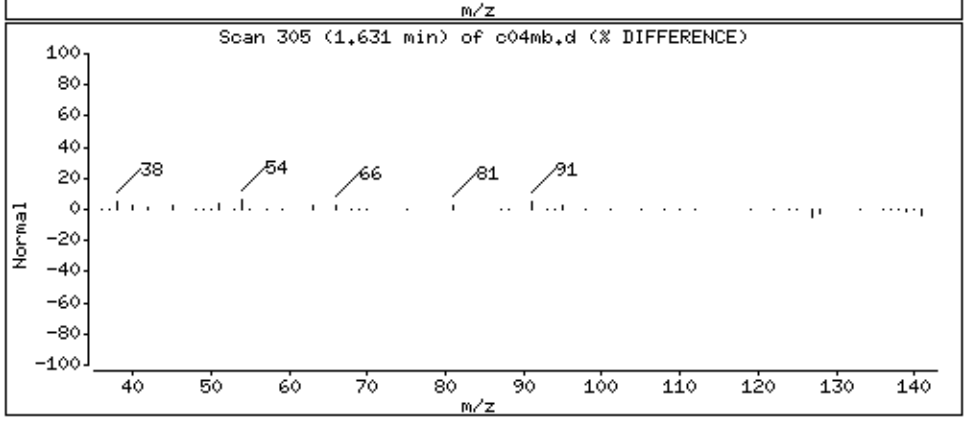












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c04mb.d

Date : 25-JAN-2017 12:56

Client ID: MB

Instrument: 50mv2a.i

Sample Info: 1713801

Purge Volume: 5.0

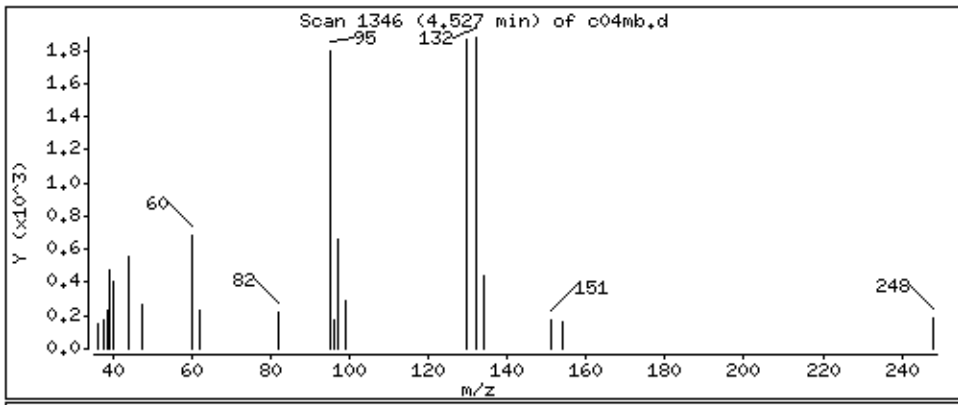
Operator: dae

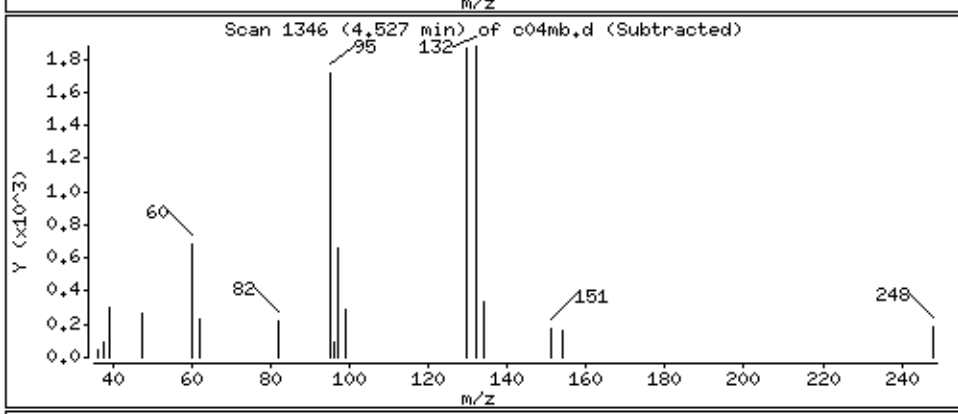
Column phase: DB-624

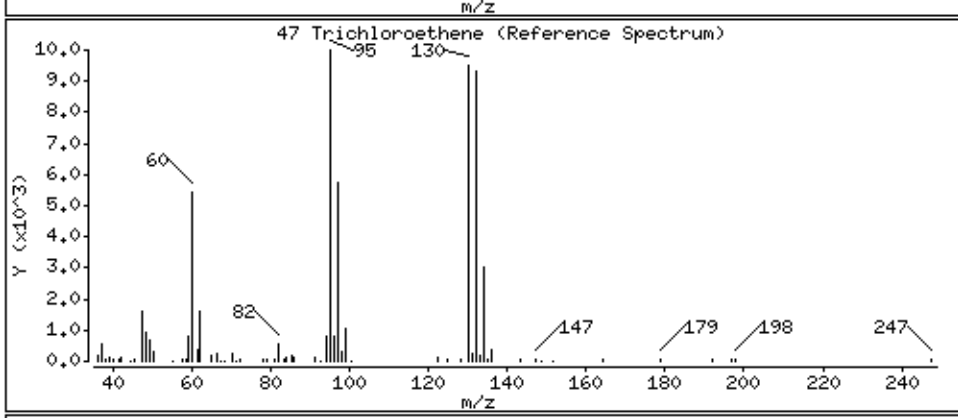
Column diameter: 0.18

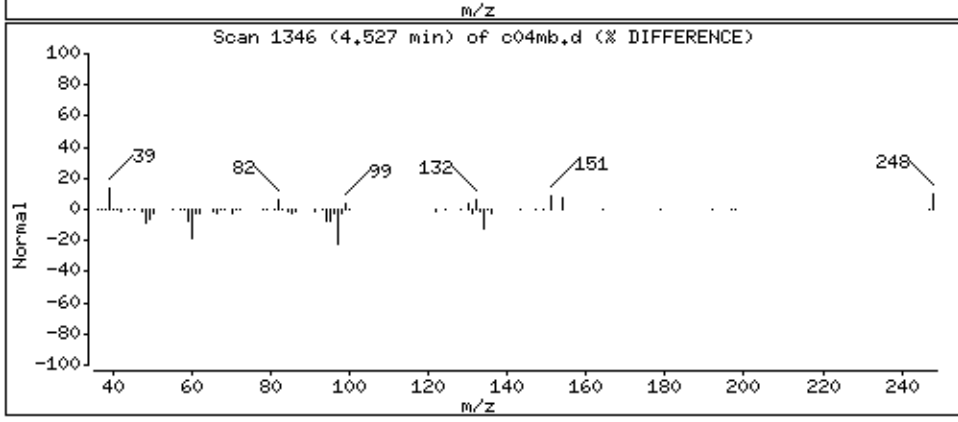
47 Trichloroethene

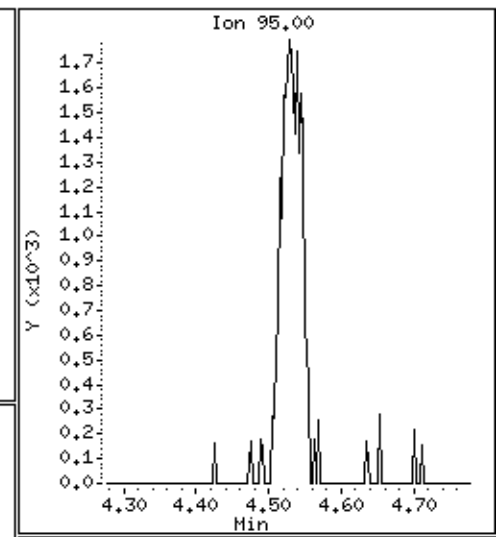
Concentration: 1.73 ppb

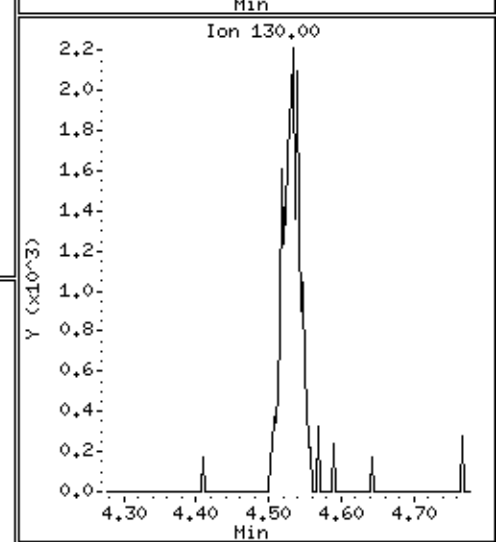


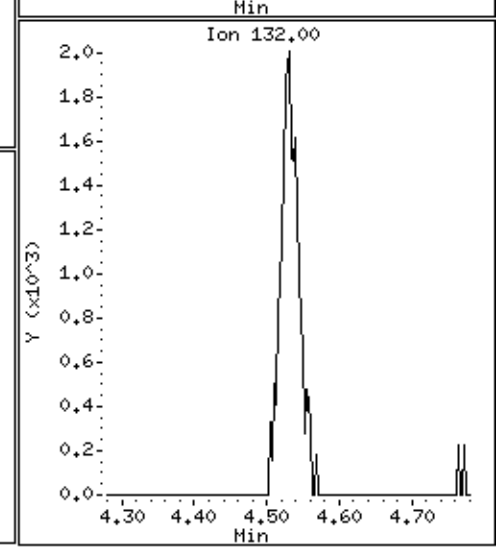












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/c04mb.d
Injection Date: 25-JAN-2017 12:56
Instrument: 50mv2a.i
Lab Sample ID: 1713801
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 11:50
Lab Sample ID: 1713802
Date Analyzed: 01/25/2017 11:50
Lab File ID: A012417.B\C02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	246	
107-02-8	Acrolein	1290	
107-13-1	Acrylonitrile	187	
71-43-2	Benzene	47.8	
108-86-1	Bromobenzene	50.8	
74-97-5	Bromochloromethane	50.0	
75-27-4	Bromodichloromethane	47.7	
75-25-2	Bromoform	41.2	
74-83-9	Bromomethane	28.7	
78-93-3	2-Butanone (MEK)	227	
104-51-8	n-Butylbenzene	50.9	
135-98-8	sec-Butylbenzene	52.9	
98-06-6	tert-Butylbenzene	43.4	
75-15-0	Carbon disulfide	45.2	
56-23-5	Carbon tetrachloride	49.0	
108-90-7	Chlorobenzene	49.6	
75-00-3	Chloroethane	51.7	
67-66-3	Chloroform	50.6	
74-87-3	Chloromethane	38.0	
95-49-8	2-Chlorotoluene	52.2	
106-43-4	4-Chlorotoluene	51.5	
124-48-1	Dibromochloromethane	47.4	
106-93-4	1,2-Dibromoethane (EDB)	50.6	
74-95-3	Dibromomethane	49.3	
95-50-1	1,2-Dichlorobenzene	49.6	
541-73-1	1,3-Dichlorobenzene	48.6	
106-46-7	1,4-Dichlorobenzene	46.8	
110-57-6	trans-1,4-Dichloro-2-butene	162	
75-71-8	Dichlorodifluoromethane	60.3	
75-34-3	1,1-Dichloroethane	48.0	
107-06-2	1,2-Dichloroethane	48.4	
75-35-4	1,1-Dichloroethene	46.7	
156-59-2	cis-1,2-Dichloroethene	49.3	
156-60-5	trans-1,2-Dichloroethene	48.0	
78-87-5	1,2-Dichloropropane	49.2	
142-28-9	1,3-Dichloropropane	53.2	
594-20-7	2,2-Dichloropropane	36.7	

SAMPLE NO.

LCS

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 11:50
Lab Sample ID: 1713802
Date Analyzed: 01/25/2017 11:50
Lab File ID: A012417.B\C02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	50.2	
10061-01-5	cis-1,3-Dichloropropene	46.6	
10061-02-6	trans-1,3-Dichloropropene	46.8	
100-41-4	Ethylbenzene	50.7	
97-63-2	Ethyl methacrylate	201	
87-68-3	Hexachloro-1,3-butadiene	48.6	
110-54-3	n-Hexane	42.4	
591-78-6	2-Hexanone	251	
74-88-4	Iodomethane	84.2	
98-82-8	Isopropylbenzene (Cumene)	53.6	
99-87-6	p-Isopropyltoluene	53.2	
75-09-2	Methylene Chloride	50.7	
90-12-0	1-Methylnaphthalene	50.0	
91-57-6	2-Methylnaphthalene	40.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	230	
1634-04-4	Methyl-tert-butyl ether	45.2	
91-20-3	Naphthalene	46.8	
103-65-1	n-Propylbenzene	56.9	
100-42-5	Styrene	52.2	
630-20-6	1,1,1,2-Tetrachloroethane	49.8	
79-34-5	1,1,2,2-Tetrachloroethane	53.0	
127-18-4	Tetrachloroethene	44.1	
108-88-3	Toluene	50.8	
87-61-6	1,2,3-Trichlorobenzene	50.4	
120-82-1	1,2,4-Trichlorobenzene	47.8	
71-55-6	1,1,1-Trichloroethane	47.5	
79-00-5	1,1,2-Trichloroethane	50.9	
79-01-6	Trichloroethene	50.3	
75-69-4	Trichlorofluoromethane	58.5	
96-18-4	1,2,3-Trichloropropane	53.2	
95-63-6	1,2,4-Trimethylbenzene	51.3	
108-67-8	1,3,5-Trimethylbenzene	52.4	
108-05-4	Vinyl acetate	179	
75-01-4	Vinyl chloride	54.8	
1330-20-7	Xylene (Total)	154	
179601-23-1	m&p-Xylene	102	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d
Lab Smp Id: 1713802 Client Smp ID: MBLCS
Inj Date : 25-JAN-2017 11:50
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713802,140393:5
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.871	(0.215)	106507	60.3474	60.3	
2 Chloromethane	50	0.952	0.952	(0.234)	76052	38.0469	38.0	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	132553	54.8144	54.8	
4 Bromomethane	94	1.138	1.138	(0.280)	32984	28.6551	28.6	
5 Chloroethane	64	1.185	1.183	(0.291)	79520	51.7206	51.7	
6 Trichlorofluoromethane	101	1.297	1.294	(0.319)	175562	58.5359	58.5	
7 Diethyl ether	74	1.416	1.416	(0.348)	66127	46.0156	46.0	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.352)	127166	46.5397	46.5	
9 Acrolein	56	1.489	1.489	(0.366)	413930	1286.18	1290	
10 1,1,2trichlorotrifluoroethane	101	1.539	1.536	(0.378)	102564	45.4247	45.4	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	86265	46.6830	46.7	
12 Acetone	43	1.555	1.553	(0.382)	171713	245.867	246	
13 Iodomethane	142	1.628	1.625	(0.400)	219474	84.2440	84.2	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	258774	45.1967	45.2	
15 Methyl Acetate	43	1.720	1.717	(0.423)	171803	67.8879	67.9	
16 Acetonitrile	39	1.733	1.731	(0.426)	202846	41.3547	41.4	
17 allyl chloride	41	1.733	1.731	(0.426)	299191	86.8339	86.8	
18 Methylene Chloride	84	1.806	1.806	(0.444)	92683	50.6931	50.7	
19 tert-Butyl Alcohol	59	1.850	1.853	(0.455)	24733	100.528	100	
20 Acrylonitrile	53	1.942	1.939	(0.477)	165236	187.450	187	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	300314	45.1619	45.2	
22 1,2-Dichloroethene (trans)	96	1.973	1.973	(0.485)	94518	47.9657	48.0	

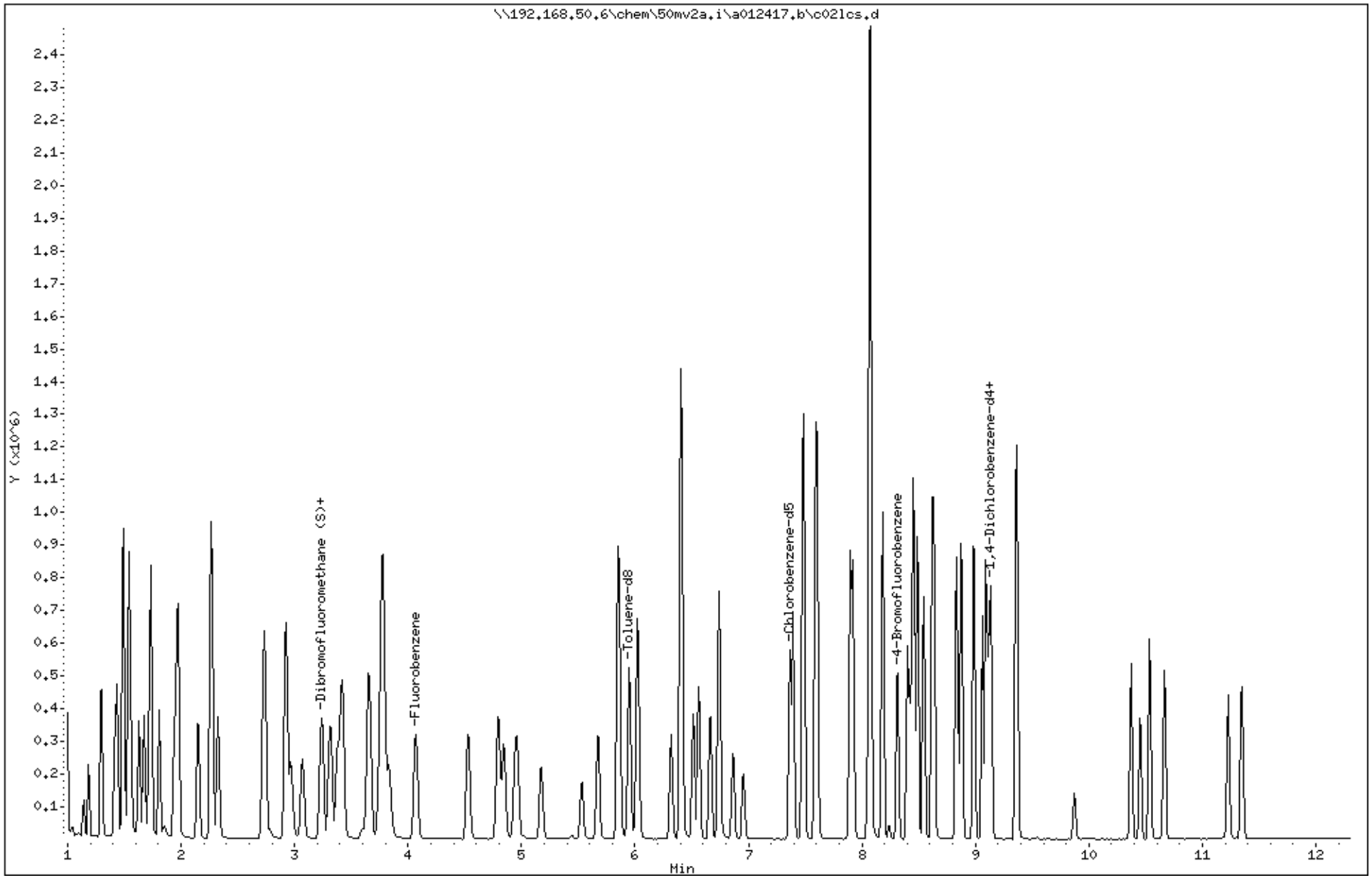
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.151	2.148	(0.529)	119397	42.3528	42.4	
24 Vinyl Acetate	43	2.262	2.262	(0.556)	786540	178.621	179	
25 1,1-Dichloroethane	63	2.270	2.268	(0.558)	172975	48.0254	48.0	
26 Chloroprene	53	2.323	2.323	(0.571)	157892	49.5128	49.5	
27 Ethyl acetate	88	2.741	2.763	(0.674)	1347	10.8524	10.8(Q)	
28 2-Butanone	72	2.724	2.724	(0.670)	68993	226.744	227(Q)	
29 1,2-Dichloroethene (cis)	96	2.735	2.730	(0.672)	107022	49.2645	49.3(Q)	
30 2,2-Dichloropropane	77	2.738	2.738	(0.673)	113093	36.7471	36.7	
31 Propionitrile	54	2.780	2.782	(0.683)	16119	44.9801	45.0(Q)	
32 Methacrylonitrile	41	2.921	2.924	(0.718)	275426	195.722	196	
33 Bromochloromethane	49	2.963	2.960	(0.728)	83767	49.9632	50.0	
34 Tetrahydrofuran	42	2.980	2.977	(0.733)	34182	51.7410	51.7	
35 Chloroform	83	3.069	3.063	(0.754)	172455	50.6127	50.6	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.796)	77434	50.2612	50.3	
37 1,1,1-Trichloroethane	97	3.239	3.236	(0.796)	160516	47.4920	47.5	
38 cyclohexane	56	3.314	3.311	(0.815)	169316	48.4107	48.4	
150 n-butyl chloride	56	3.381	3.378	(0.831)	213748	49.1803	49.2	
39 Carbon Tetrachloride	117	3.414	3.408	(0.839)	144522	48.9938	49.0	
40 1,1-Dichloropropene	75	3.417	3.417	(0.840)	144798	50.1595	50.2	
41 Benzene	78	3.659	3.653	(0.899)	390881	47.8025	47.8	
42 1,2-Dichloroethane	62	3.748	3.742	(0.921)	135861	48.4214	48.4	
43 2,2,4-Trimethylpentane	57	3.826	3.828	(0.940)	254857	48.4591	48.4	
44 Isobutyl alcohol	43	3.603	3.600	(0.886)	22125	1.17208	1.17	
* 45 Fluorobenzene	96	4.068	4.065	(1.000)	305457	50.0000		
47 Trichloroethene	95	4.530	4.527	(1.114)	101457	50.2864	50.3	
48 Methylcyclohexane	55	4.791	4.791	(1.178)	118206	49.8693	49.9	
49 1,2-Dichloropropane	63	4.841	4.838	(1.190)	101123	49.2382	49.2	
50 1,4-Dioxane	88	4.947	4.953	(1.216)	26838	1106.66	1110	
51 Dibromomethane	93	4.941	4.939	(1.215)	63096	49.2931	49.3	
52 Methyl methacrylate	69	4.961	4.964	(1.220)	83015	47.9555	48.0	
53 Bromodichloromethane	83	5.172	5.170	(1.272)	124473	47.7032	47.7	
54 2-Chloroethyl vinyl ether	63	5.531	5.528	(0.751)	68552	44.9031	44.9	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	153222	46.5937	46.6	
56 4-Methyl-2-Pentanone	43	5.851	5.851	(0.794)	515881	230.134	230	
$ 57 Toluene-d8	98	5.949	5.946	(0.807)	298094	50.3791	50.4	
58 Toluene	91	6.024	6.021	(0.818)	423359	50.7899	50.8	
59 trans-1,3-Dichloropropene	75	6.319	6.316	(0.858)	139432	46.8017	46.8	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	604402	201.234	201	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	77926	50.9302	50.9	
62 Tetrachloroethene	166	6.561	6.561	(0.890)	114143	44.0672	44.1	
63 1,3-Dichloropropane	76	6.664	6.661	(0.904)	168555	53.2040	53.2	
64 2-Hexanone	43	6.741	6.739	(0.915)	366011	250.549	250	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	101312	47.3668	47.4	
66 1,2-Dibromoethane	107	6.953	6.953	(0.944)	96940	50.5856	50.6	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	227915	50.0000		
68 Chlorobenzene	112	7.390	7.390	(1.003)	262347	49.5590	49.6	
69 1,1,1,2-Tetrachloroethane	131	7.482	7.479	(1.015)	100404	49.8284	49.8	
70 Ethylbenzene	106	7.484	7.484	(1.016)	146131	50.7253	50.7	
71 m&p-Xylene	106	7.598	7.596	(1.031)	353834	101.669	102	
72 o-Xylene	106	7.899	7.896	(1.072)	167538	52.2883	52.3	
73 Styrene	104	7.918	7.916	(1.075)	288568	52.2232	52.2	
74 Bromoform	173	8.055	8.052	(0.883)	70024	41.2094	41.2	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	435324	53.6167	53.6	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	105558	52.0854	52.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
77 n-amyl acetate	70	8.071	8.071	(1.096)	382457	248.059	248	
78 Bromobenzene	77	8.402	8.403	(1.140)	161395	50.7865	50.8	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	124050	52.9940	53.0	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	113253	162.015	162(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	43825	53.1532	53.2(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	479685	56.9345	56.9	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	275637	52.1925	52.2	
84 1,3,5-Trimethylbenzene	105	8.619	8.620	(0.945)	326673	52.4092	52.4	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	101523	51.4754	51.5	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	286486	43.4211	43.4	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	330695	51.2823	51.3	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	402428	52.9251	52.9	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	193312	48.6354	48.6	
90 p-Isopropyltoluene	119	9.090	9.090	(0.997)	335429	53.1837	53.2	
* 91 1,4-Dichlorobenzene-d4	152	9.117	9.118	(1.000)	116427	50.0000		
92 1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	201438	46.7655	46.8	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	267742	50.9432	50.9	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	191255	49.5567	49.6	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.872	(1.083)	21891	44.2464	44.2	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	115936	47.7827	47.8	
97 Hexachlorobutadiene	225	10.456	10.453	(1.147)	48893	48.6487	48.6	
98 Naphthalene	128	10.534	10.534	(1.155)	334643	46.8190	46.8	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	116941	50.3784	50.4	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	161870	40.1297	40.1	
101 1-Methylnaphthalene	142	11.346	11.346	(1.244)	178630	49.9663	50.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d
Date : 25-JAN-2017 11:50
Client ID: MBLCS
Instrument: 50mv2a.i
Sample Info: 1713802,140393:5
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

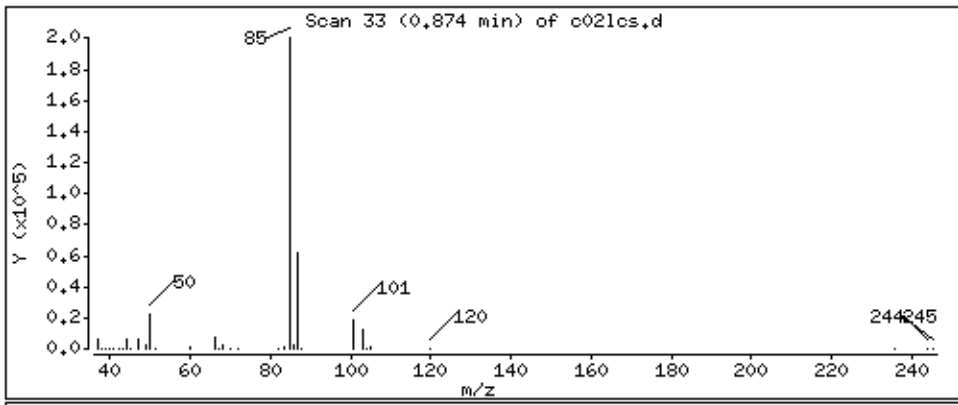
Operator: dae

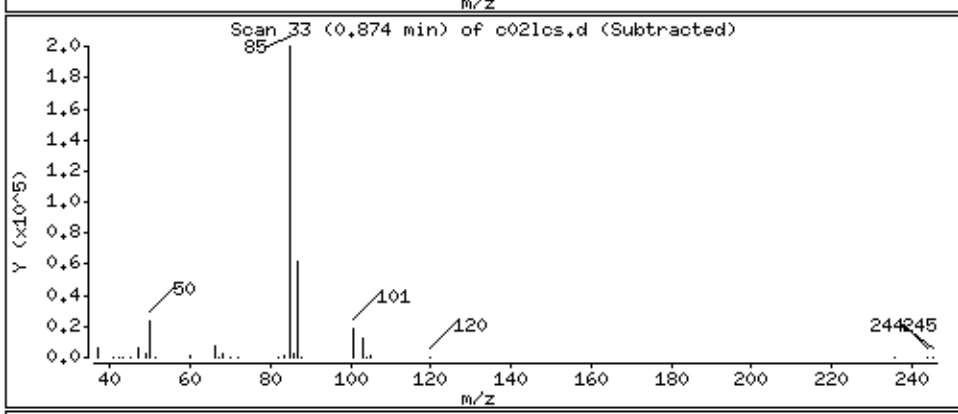
Column phase: DB-624

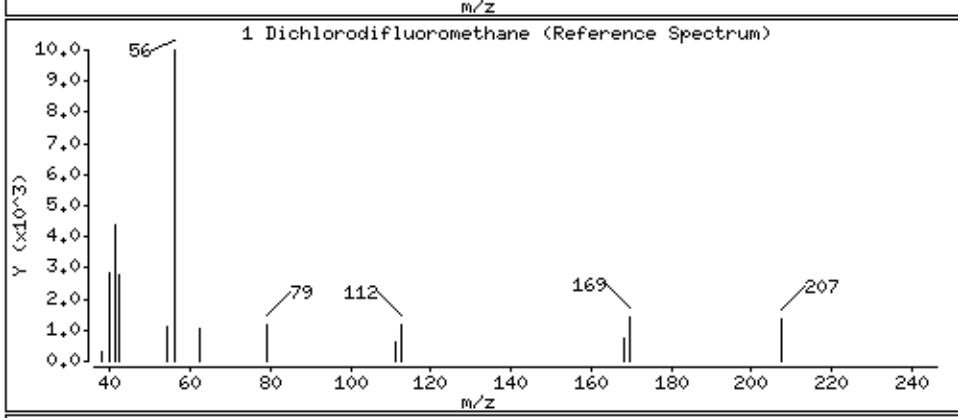
Column diameter: 0.18

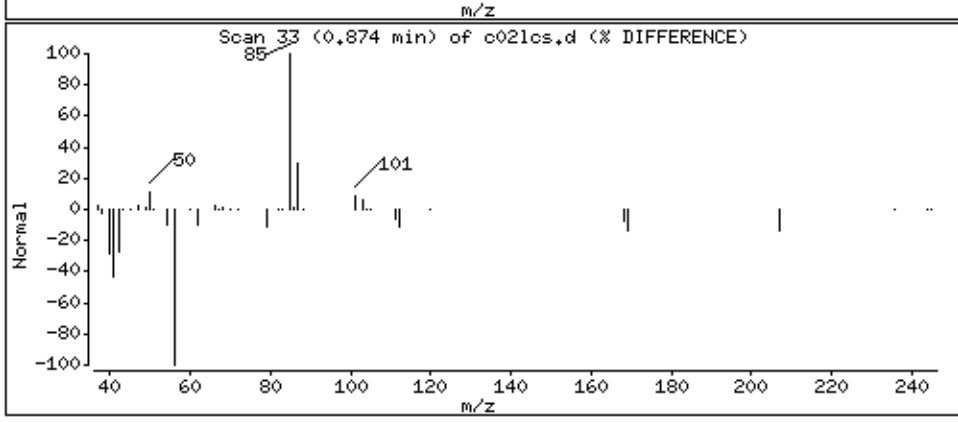
1 Dichlorodifluoromethane

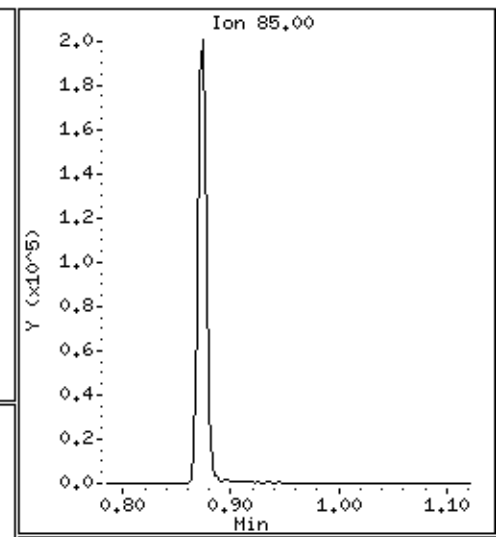
Concentration: 60.3 ppb

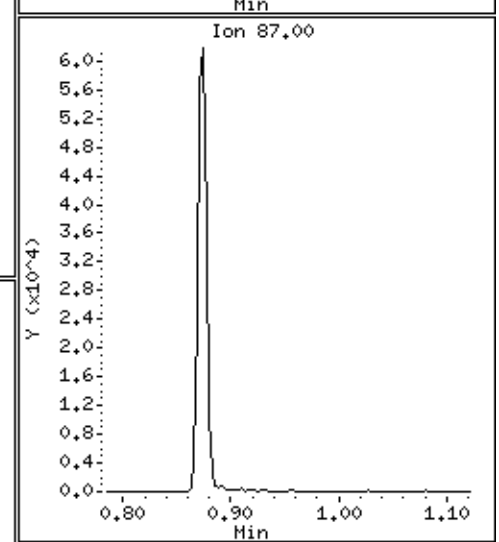


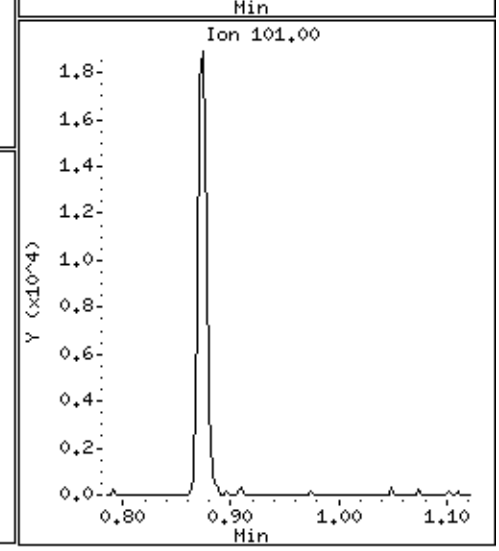












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

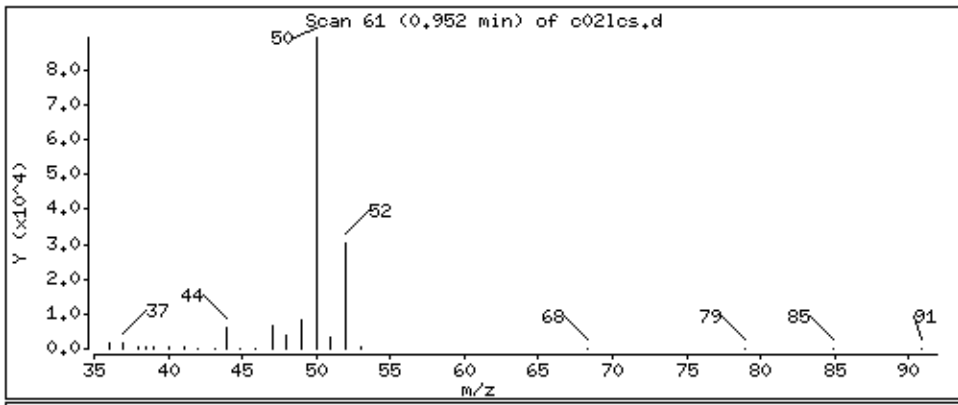
Operator: dae

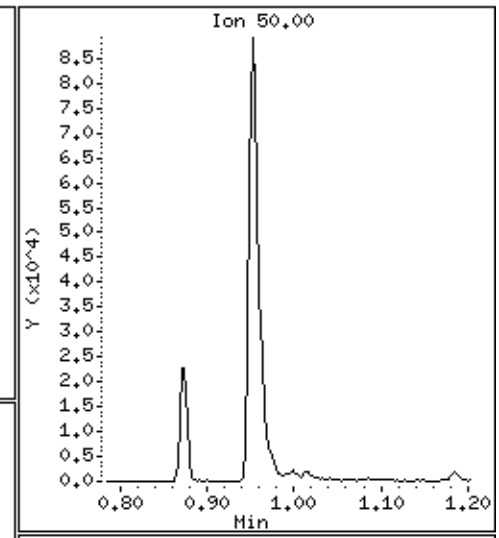
Column phase: DB-624

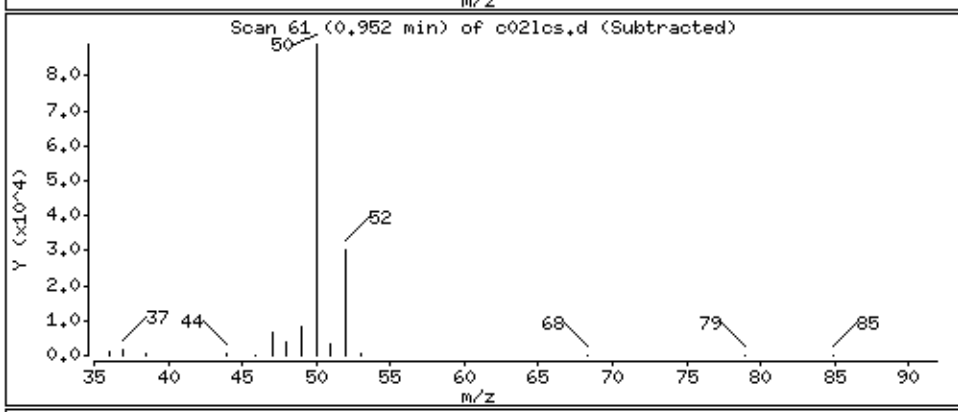
Column diameter: 0.18

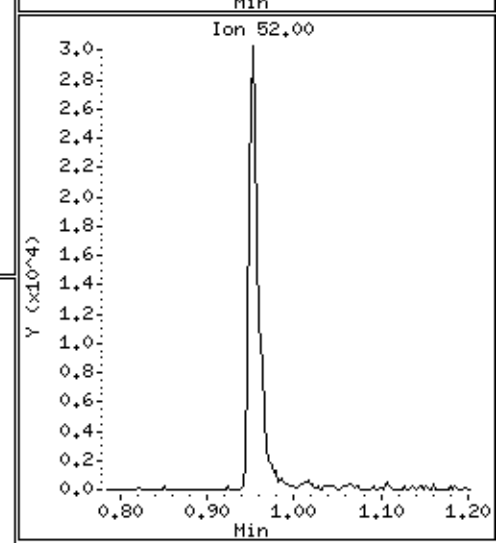
2 Chloromethane

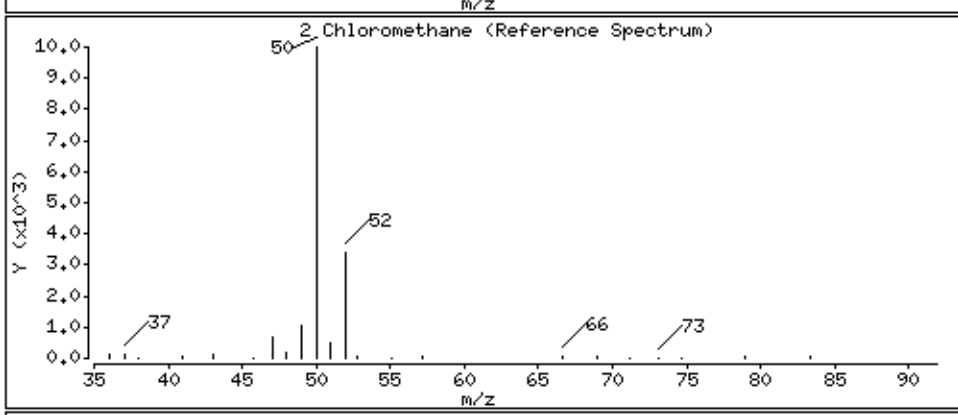
Concentration: 38.0 ppb

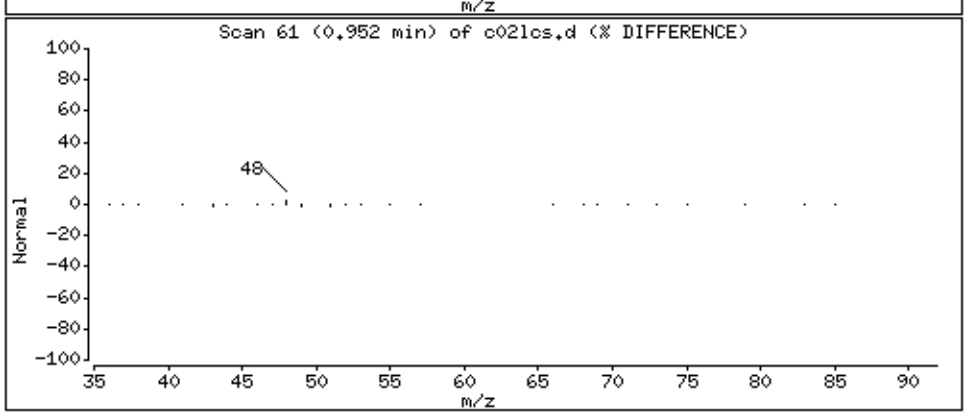












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

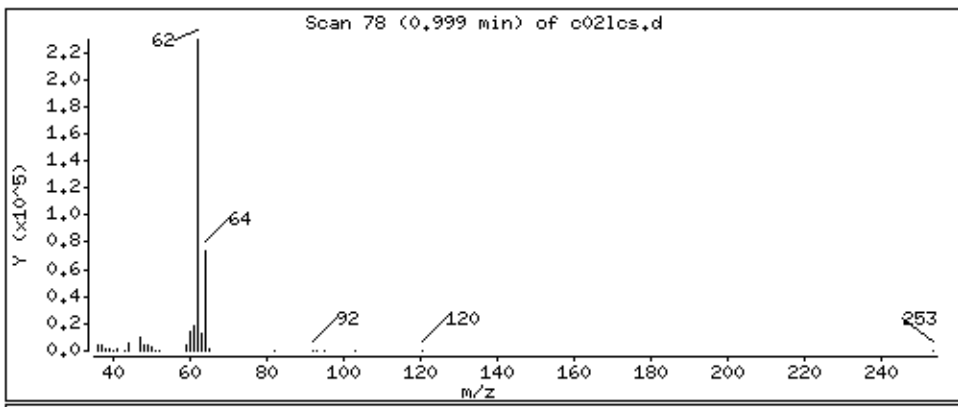
Operator: dae

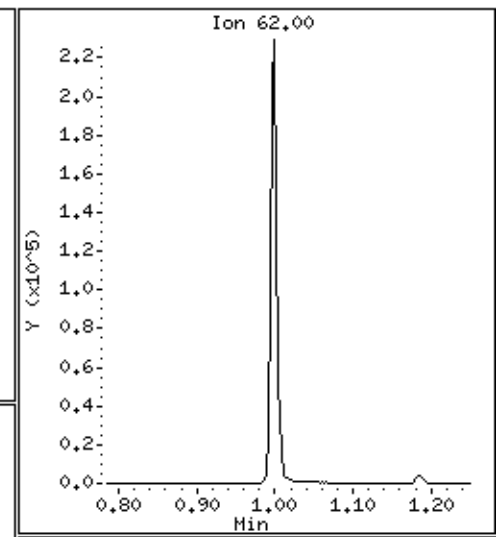
Column phase: DB-624

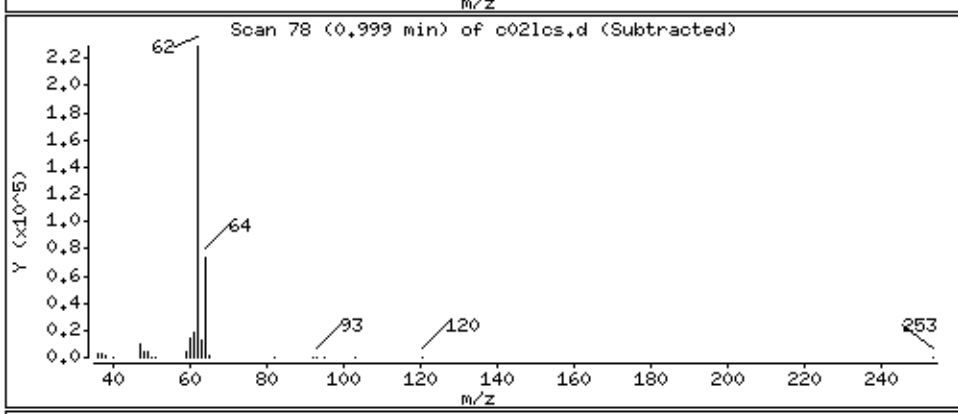
Column diameter: 0.18

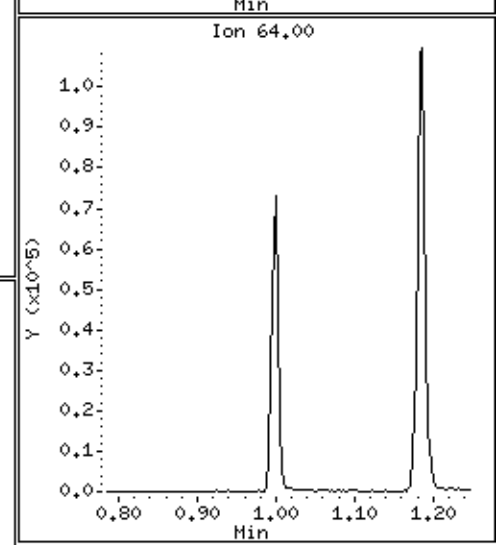
3 Vinyl Chloride

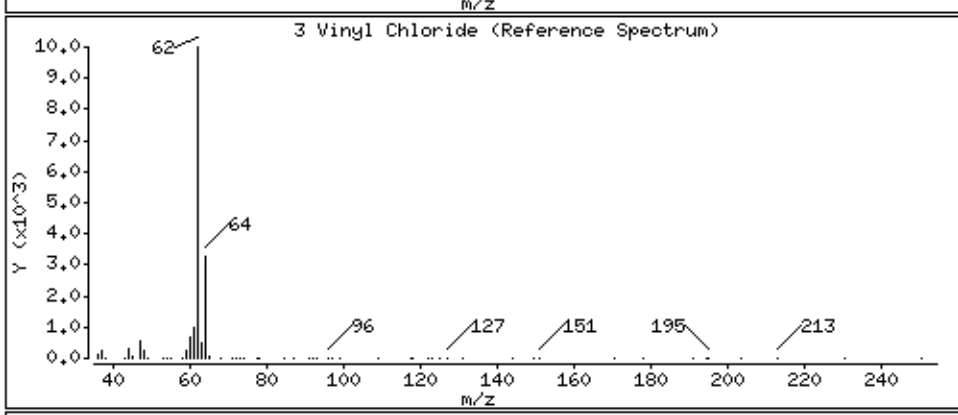
Concentration: 54.8 ppb

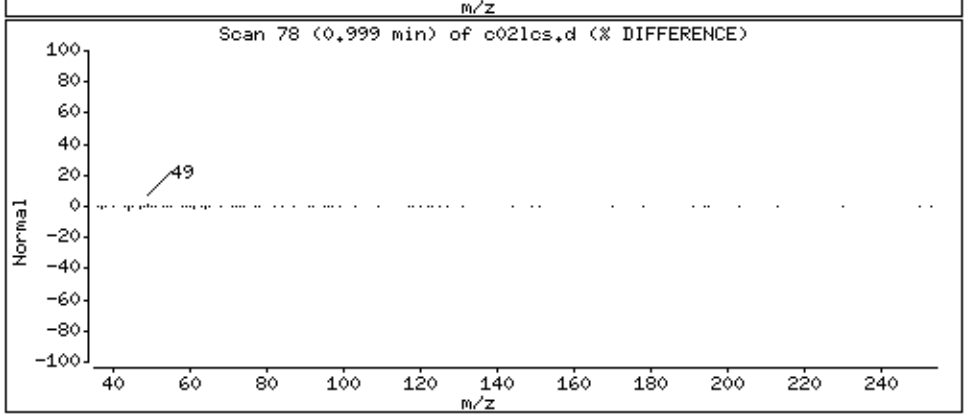












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

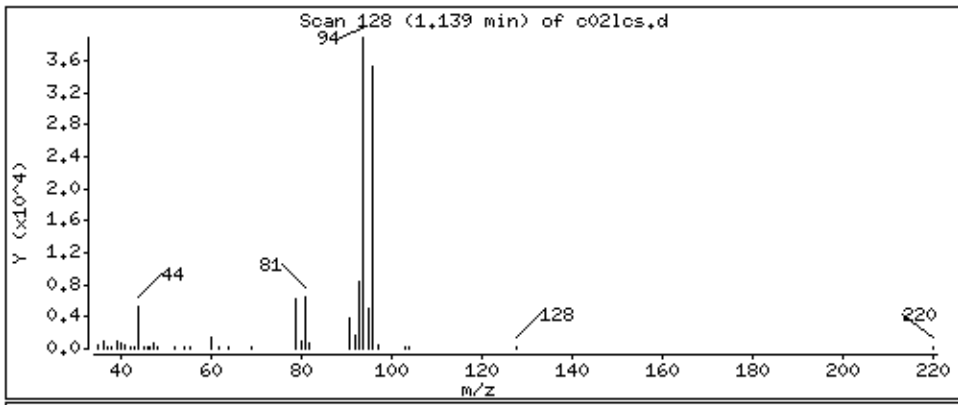
Operator: dae

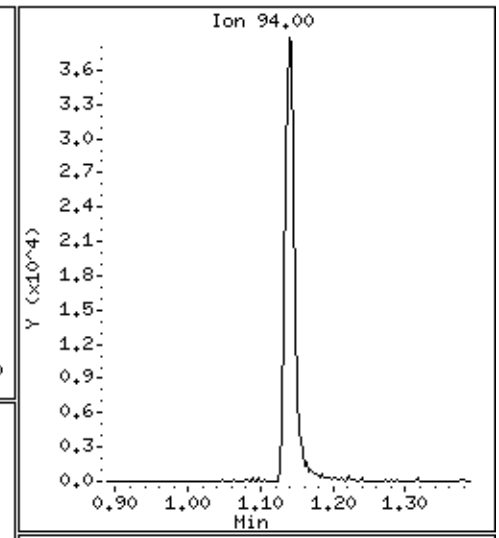
Column phase: DB-624

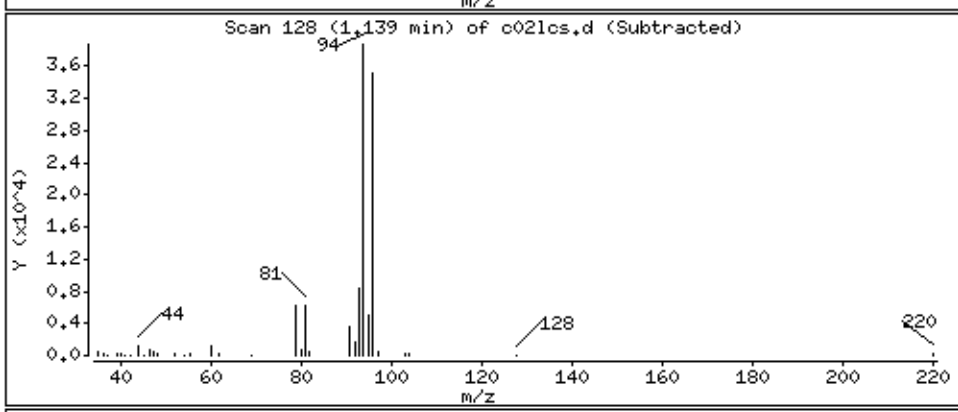
Column diameter: 0.18

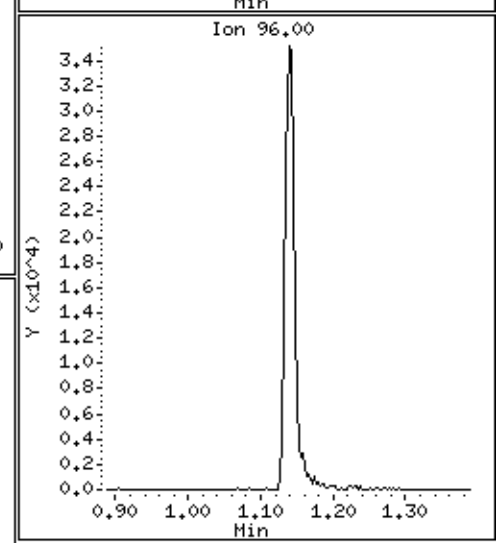
4 Bromomethane

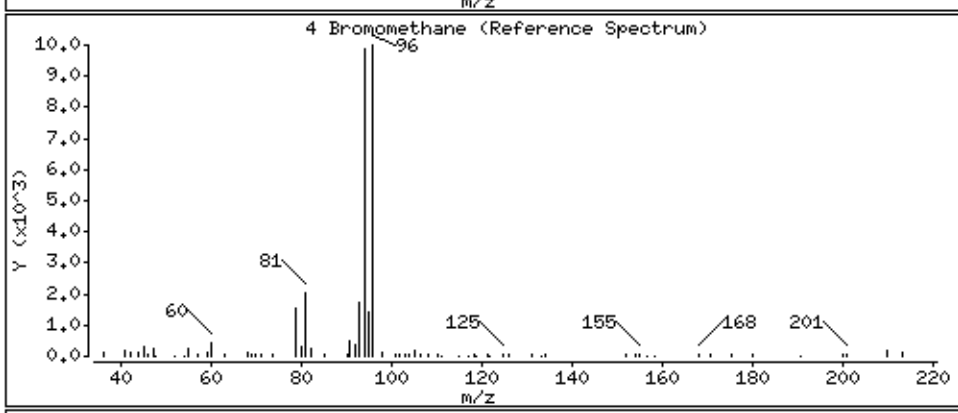
Concentration: 28.6 ppb

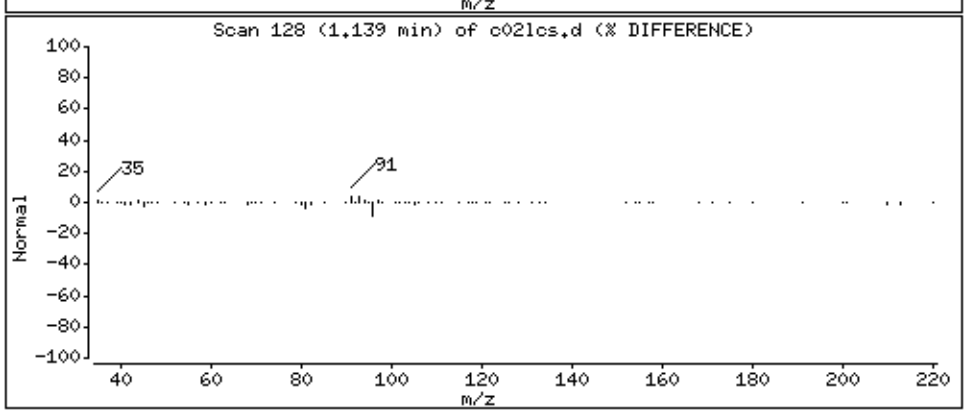












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

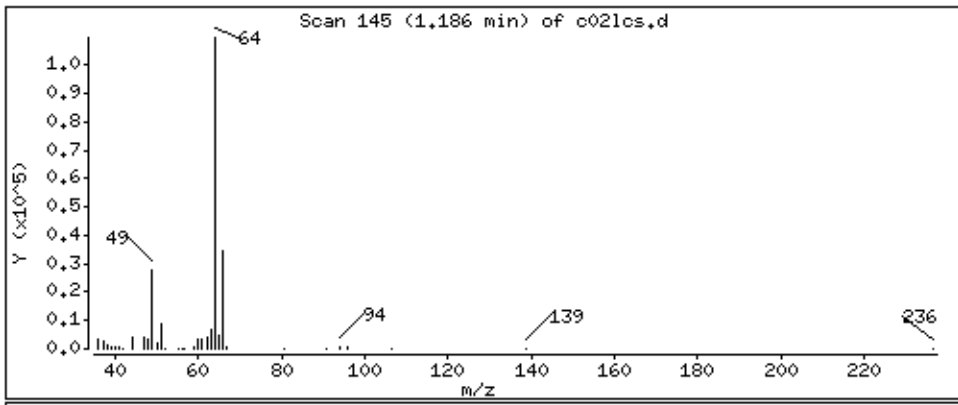
Operator: dae

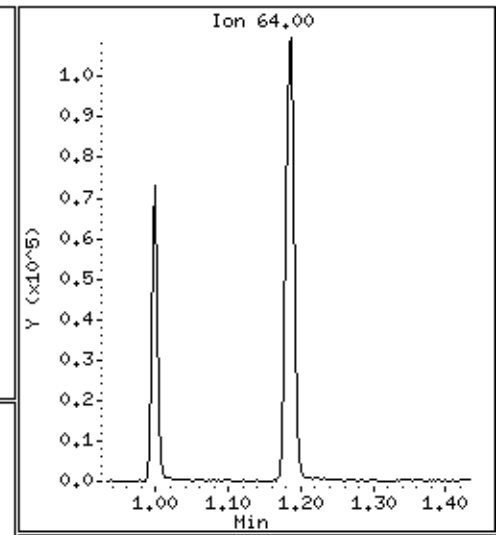
Column phase: DB-624

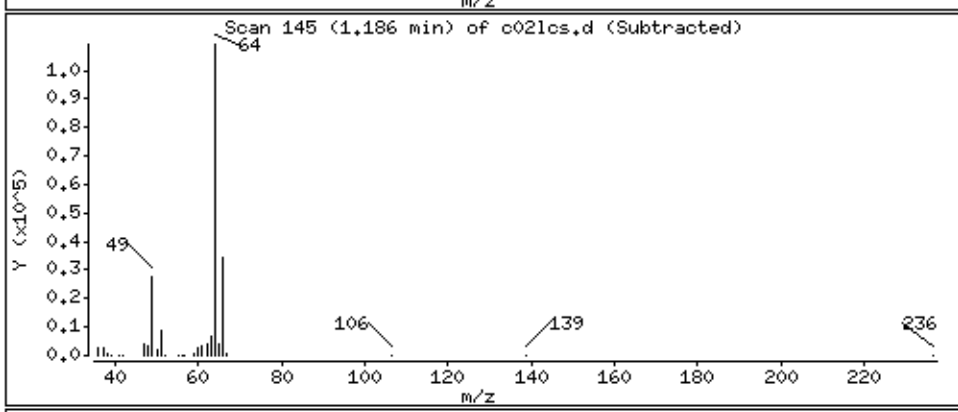
Column diameter: 0.18

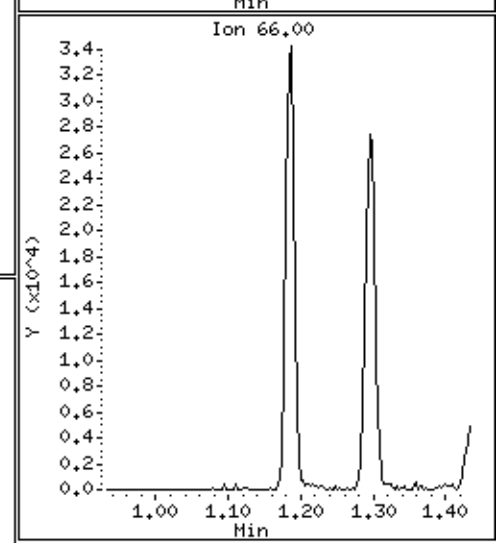
5 Chloroethane

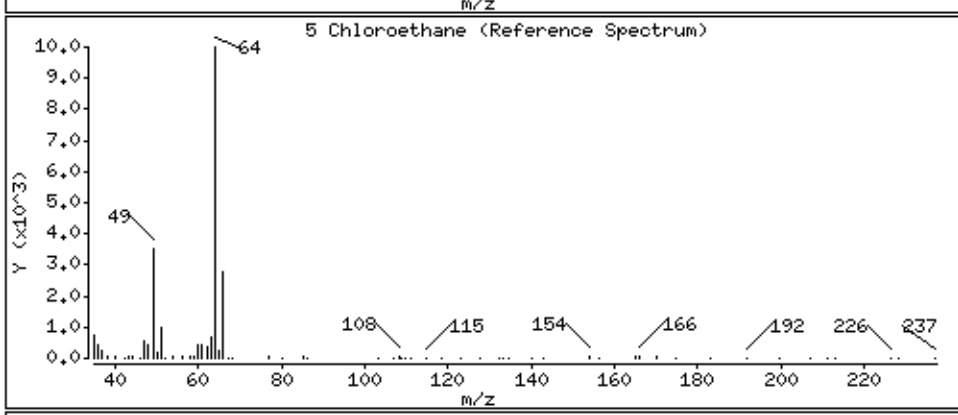
Concentration: 51.7 ppb

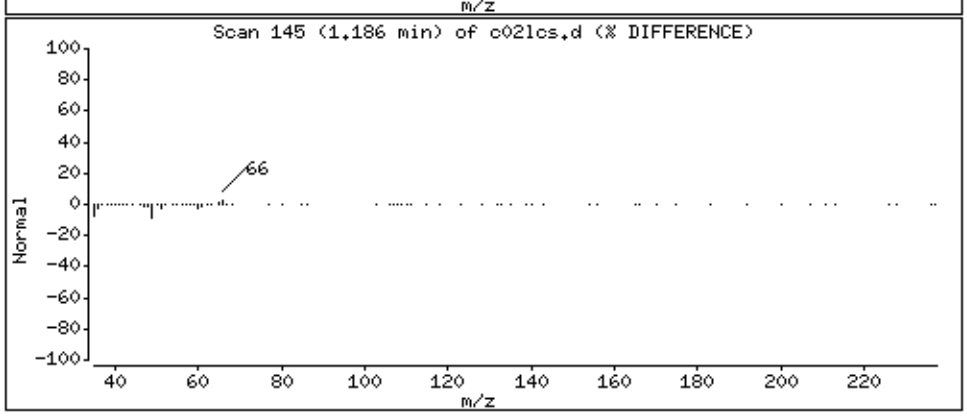












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

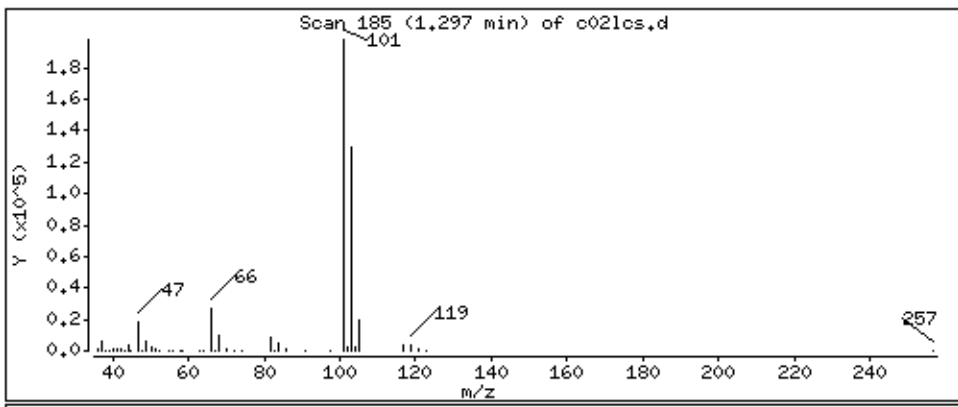
Operator: dae

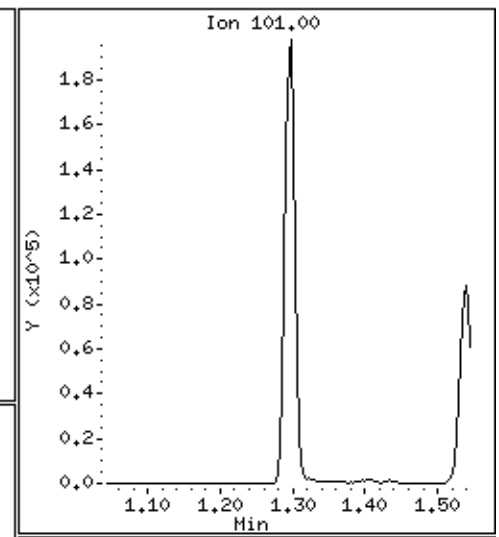
Column phase: DB-624

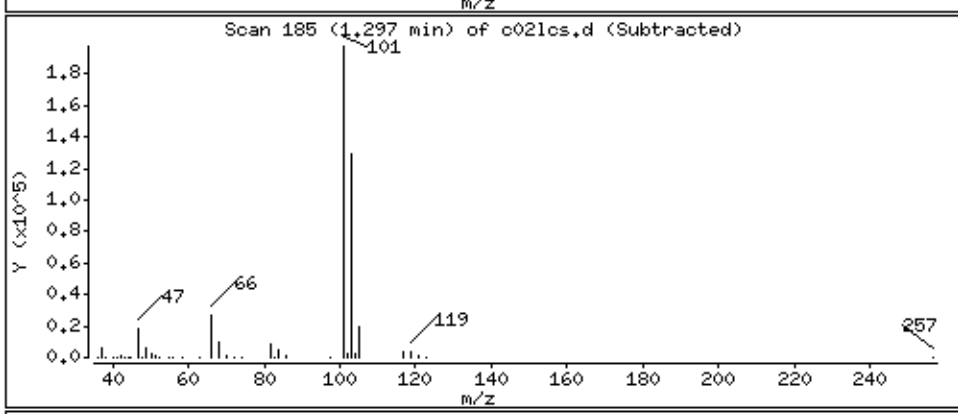
Column diameter: 0.18

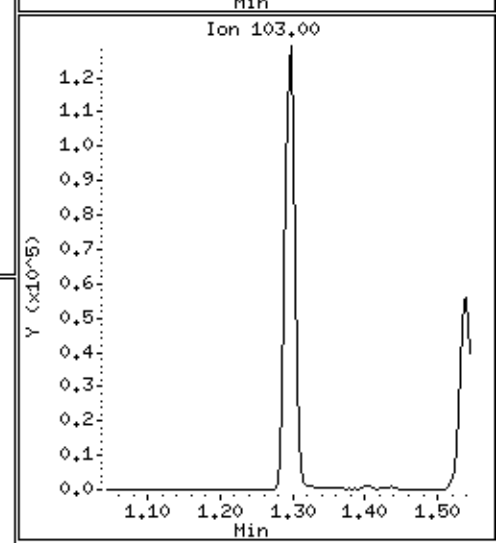
6 Trichlorofluoromethane

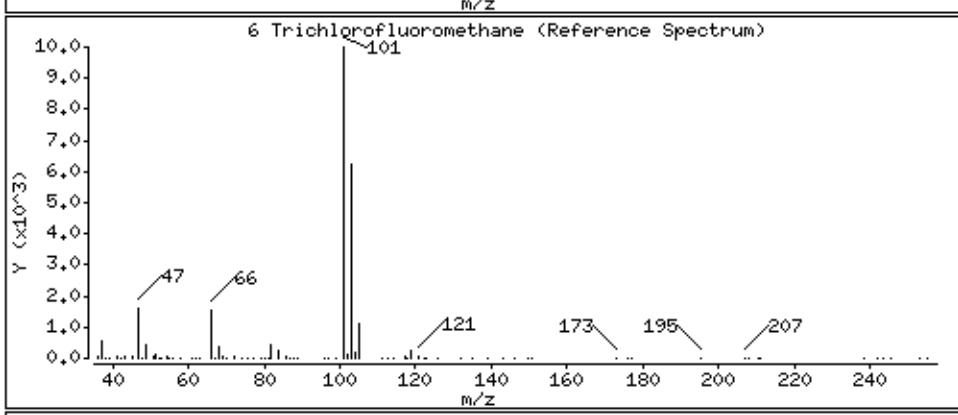
Concentration: 58.5 ppb

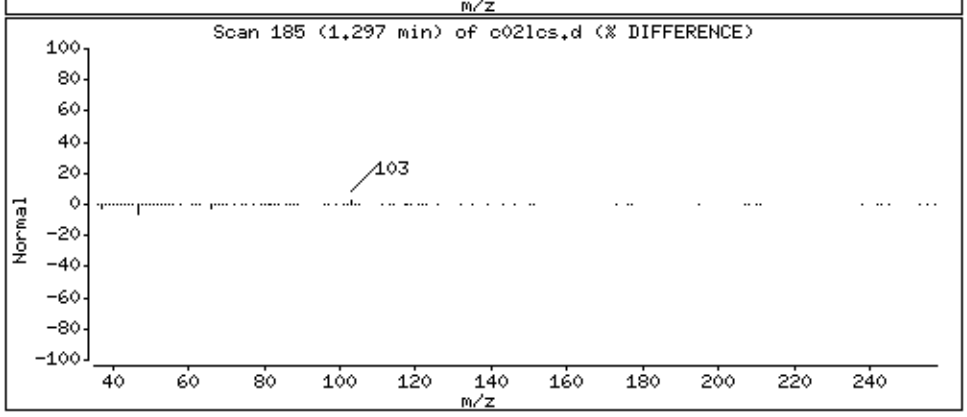












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

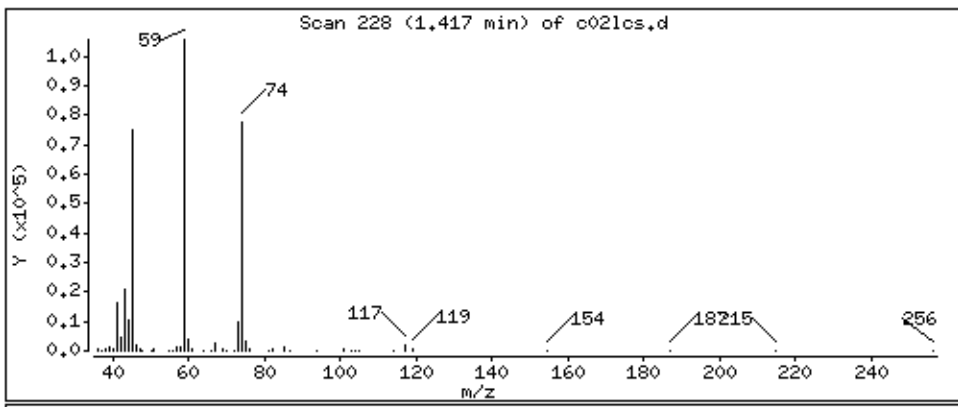
Operator: dae

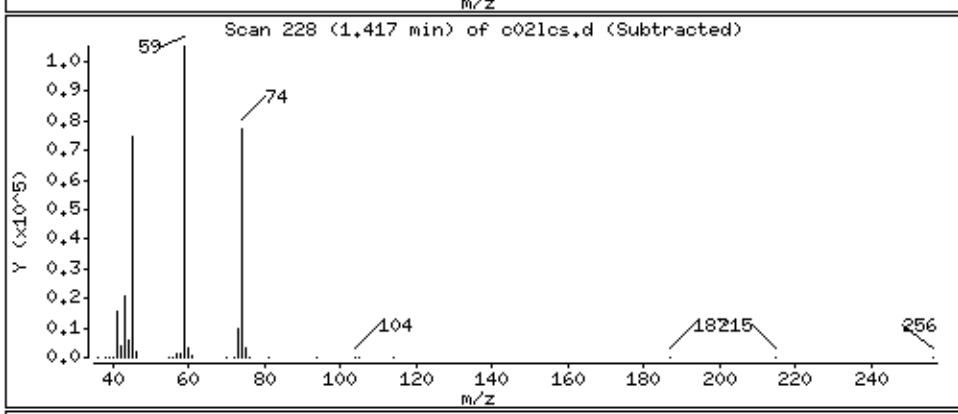
Column phase: DB-624

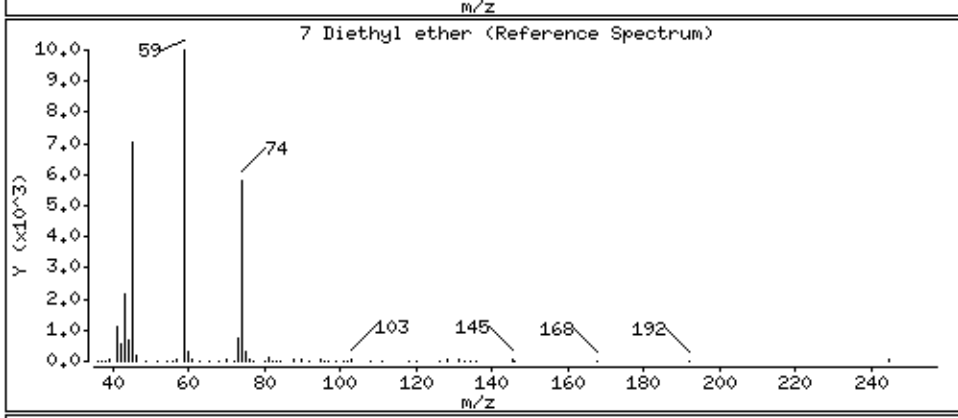
Column diameter: 0.18

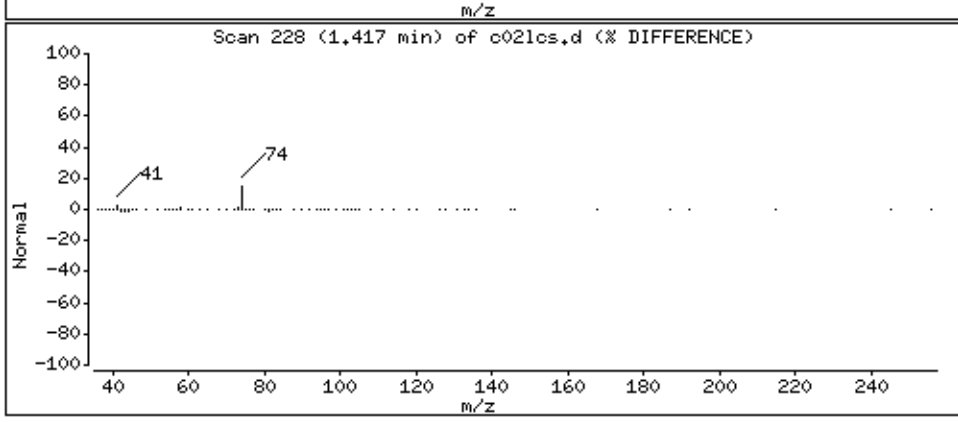
7 Diethyl ether

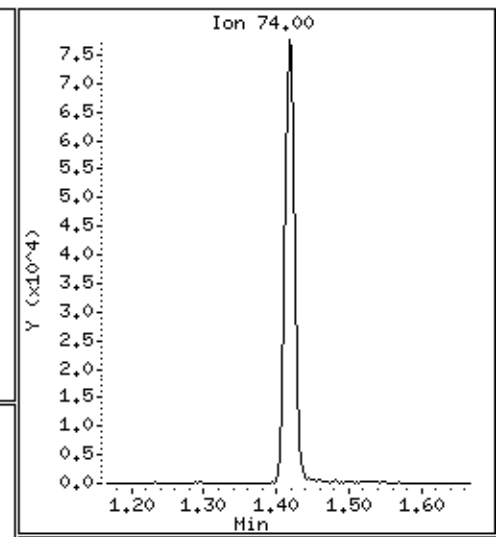
Concentration: 46.0 ppb

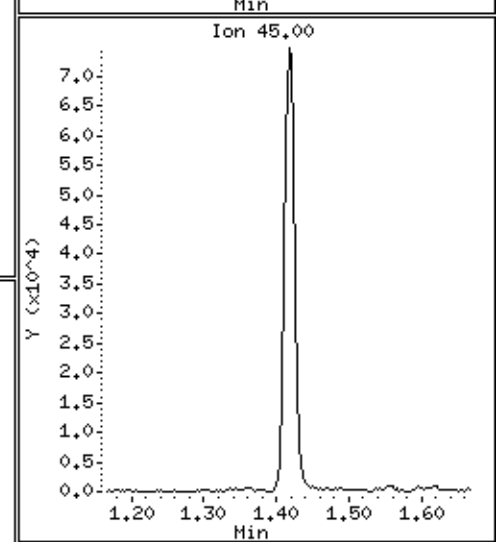


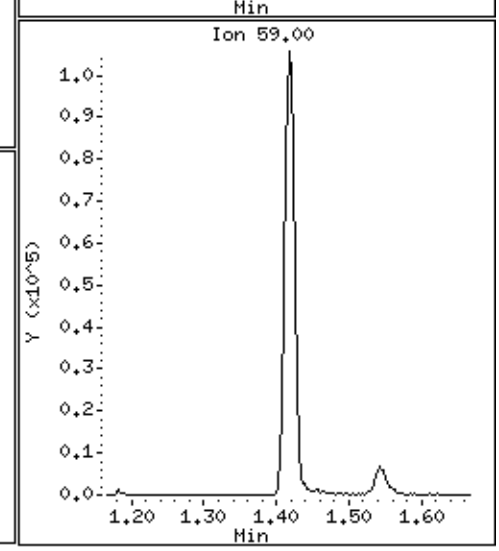












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

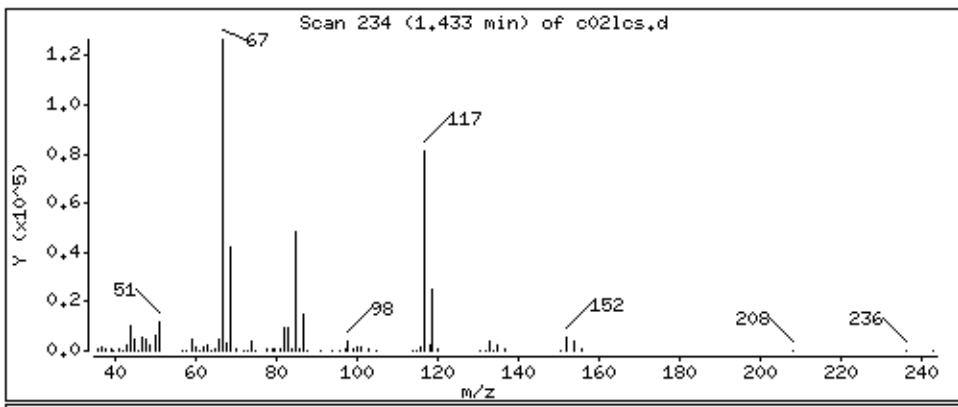
Operator: dae

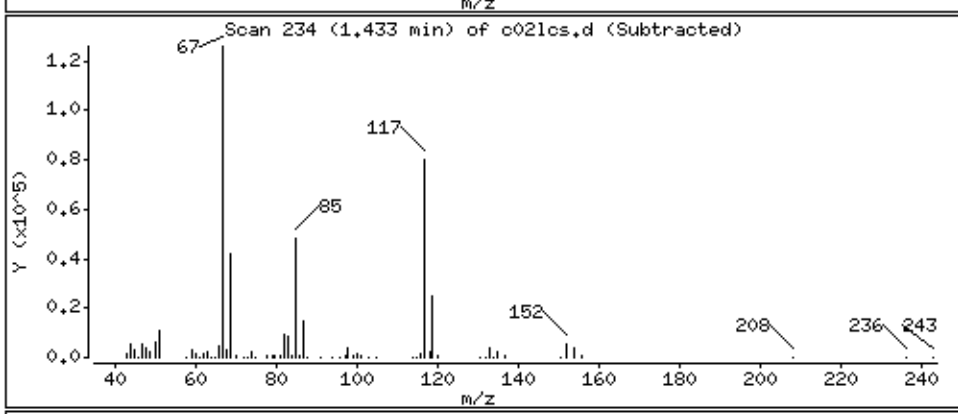
Column phase: DB-624

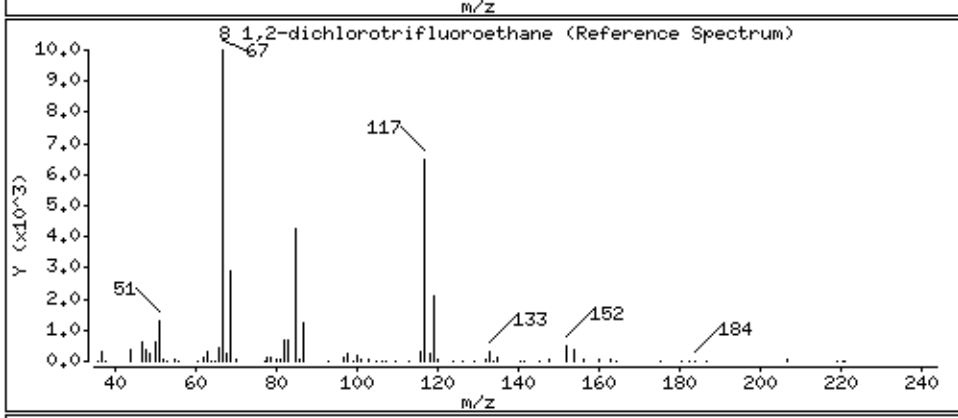
Column diameter: 0.18

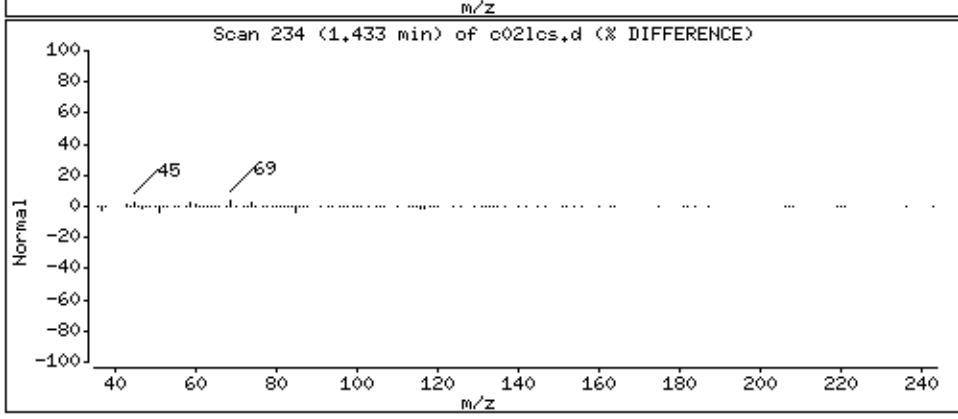
8 1,2-dichlorotrifluoroethane

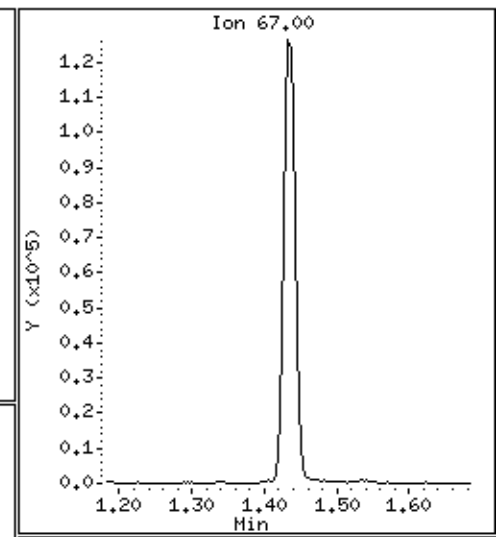
Concentration: 46.5 ppb

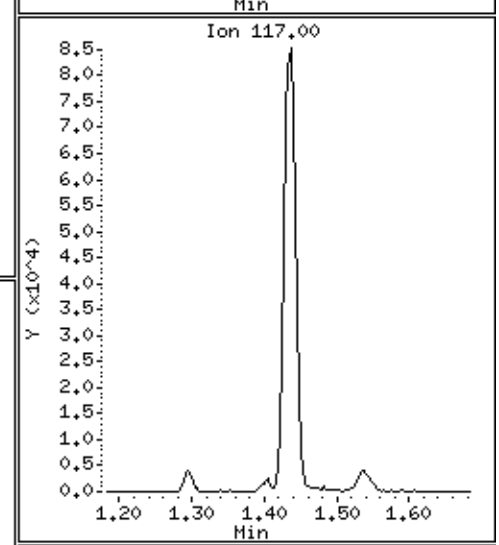


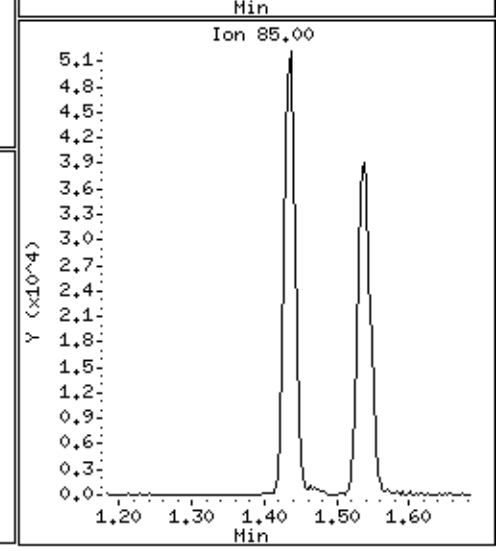












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

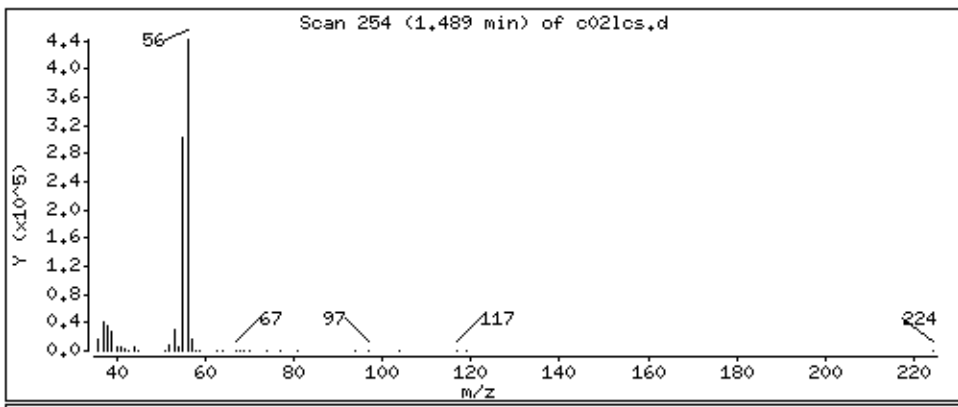
Operator: dae

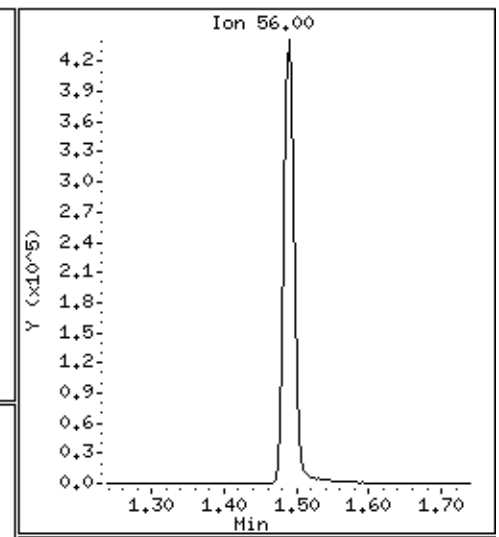
Column phase: DB-624

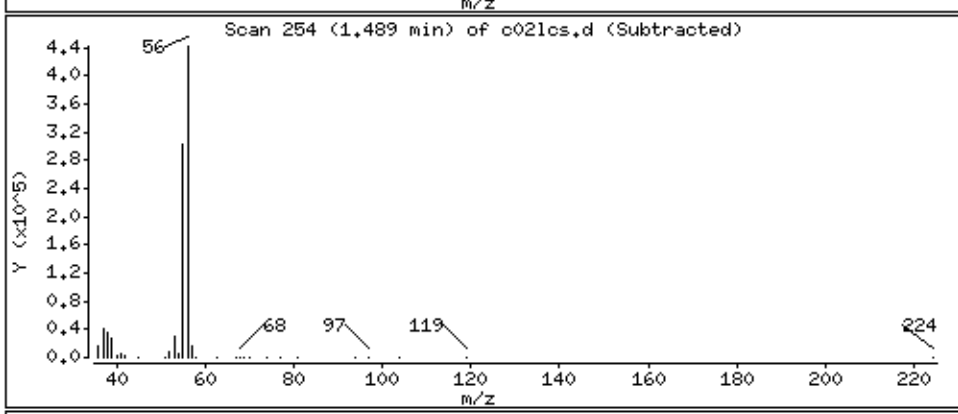
Column diameter: 0.18

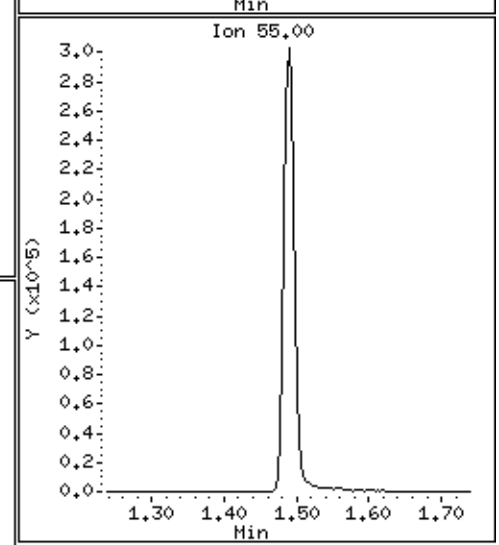
9 Acrolein

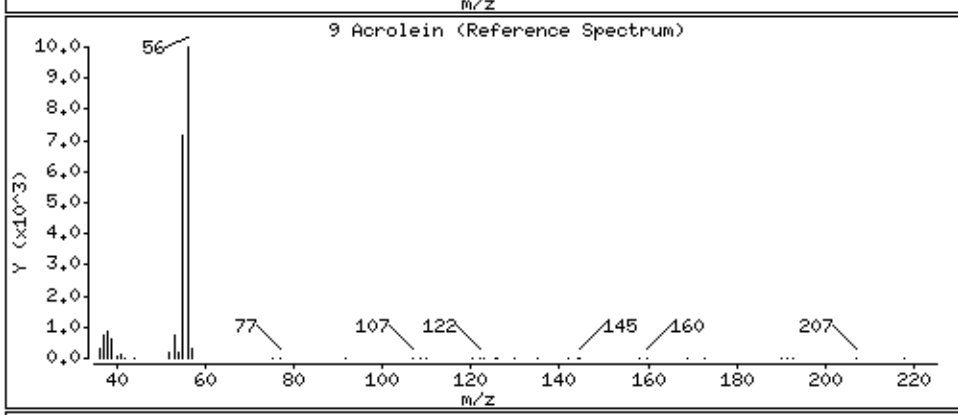
Concentration: 1290 ppb

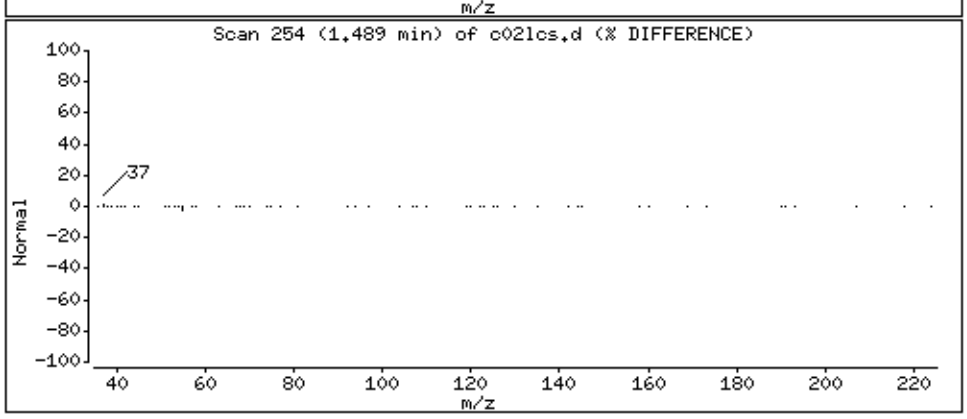












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

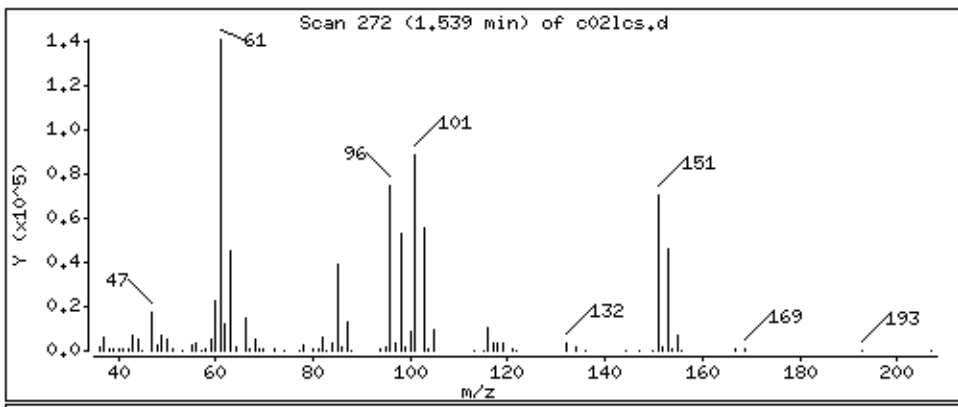
Client ID: MBLCS | Instrument: 50mv2a.i

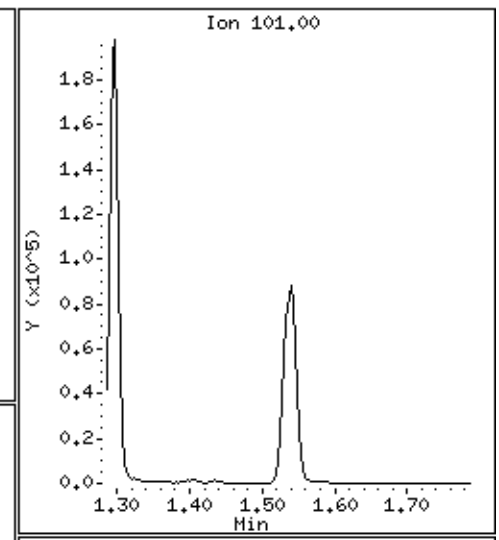
Sample Info: 1713802,140393:5

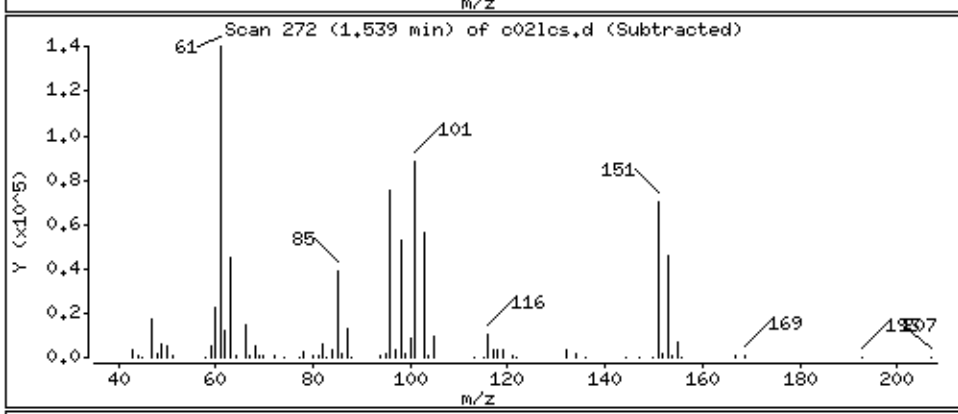
Purge Volume: 5.0 | Operator: dae

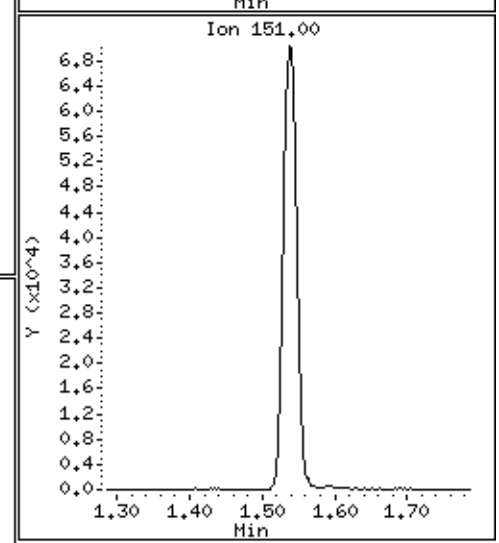
Column phase: DB-624 | Column diameter: 0.18

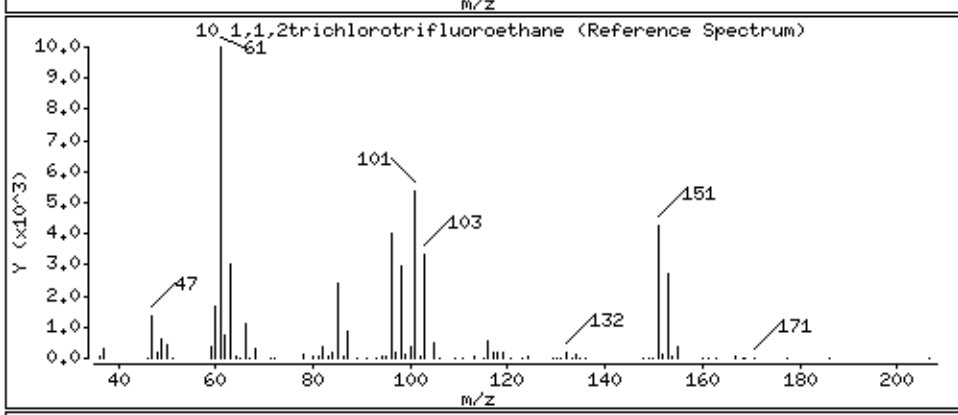
10 1,1,2trichlorotrifluoroethane | Concentration: 45.4 ppb

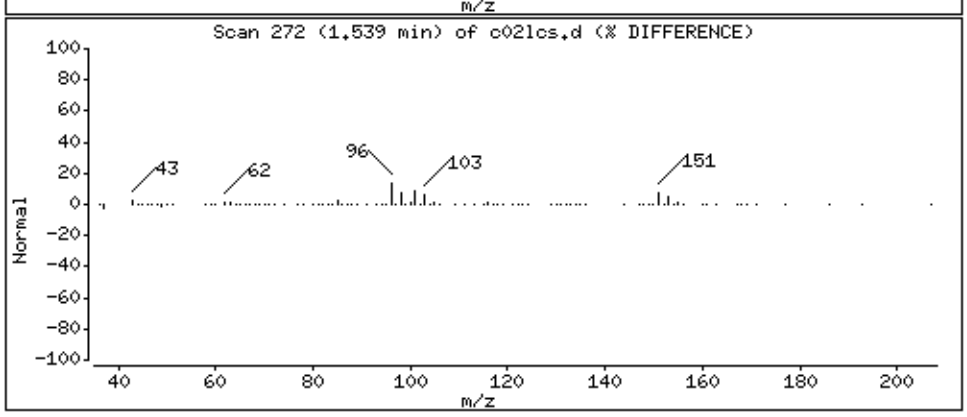












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

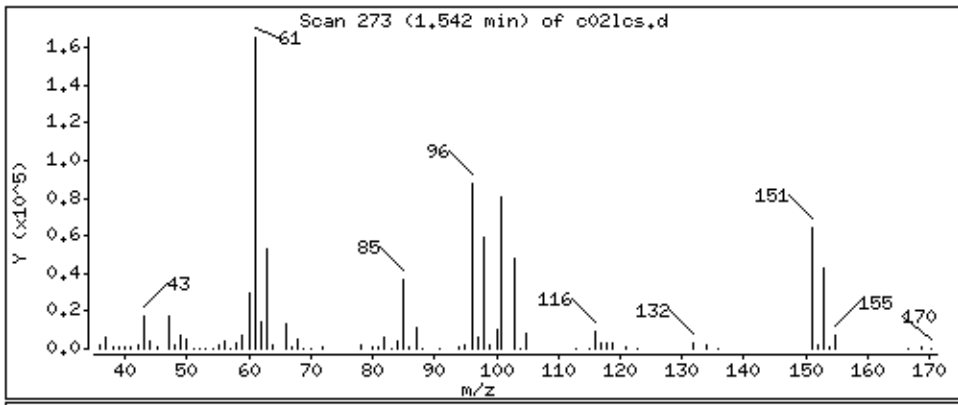
Operator: dae

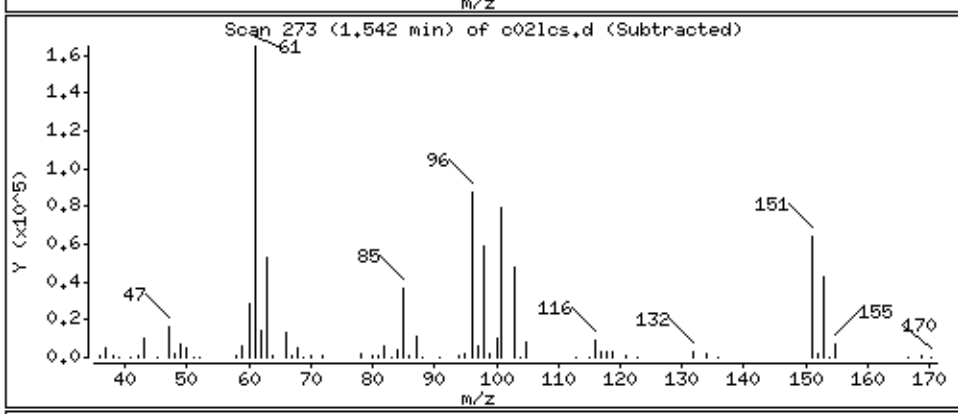
Column phase: DB-624

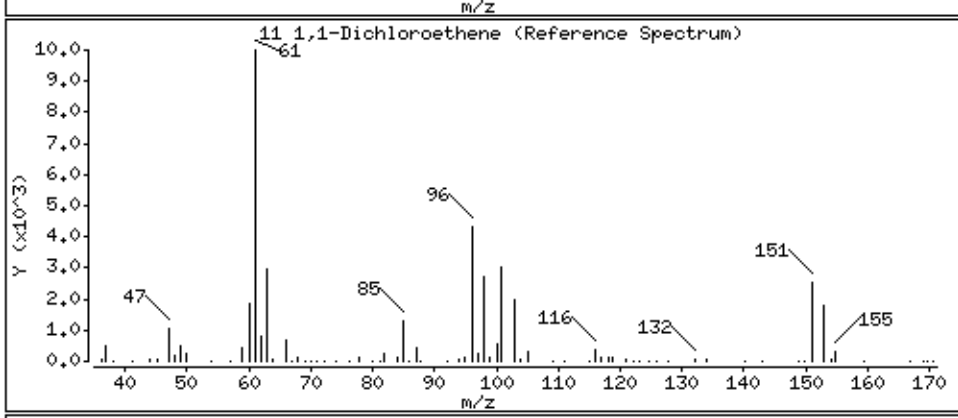
Column diameter: 0.18

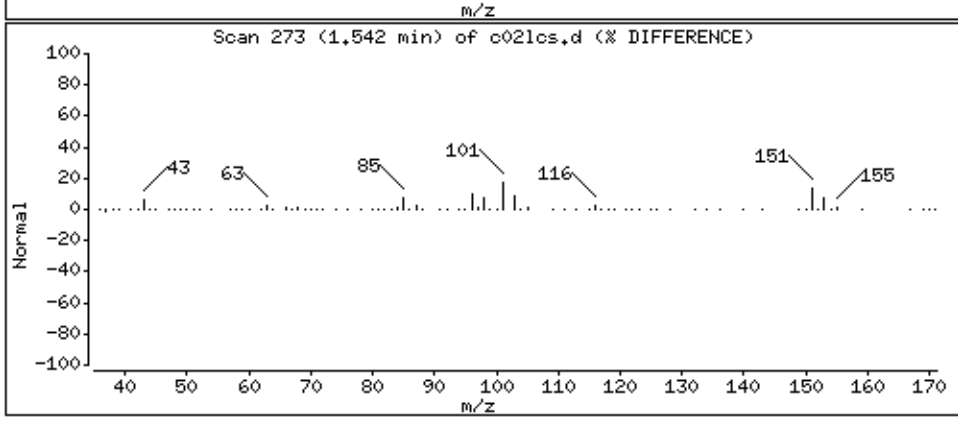
11 1,1-Dichloroethene

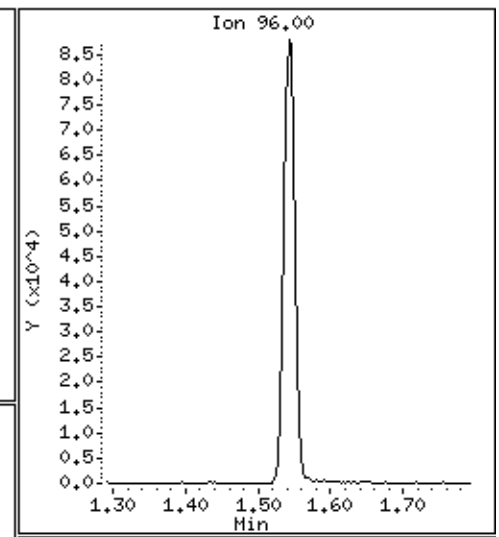
Concentration: 46.7 ppb

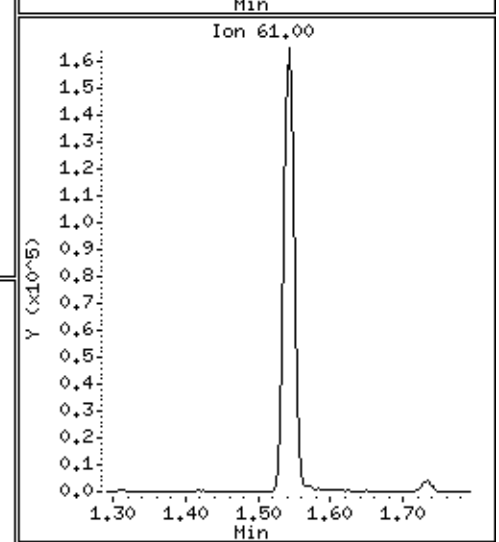


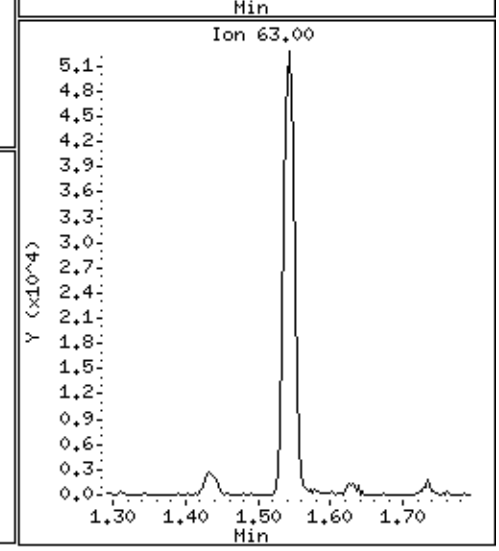












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

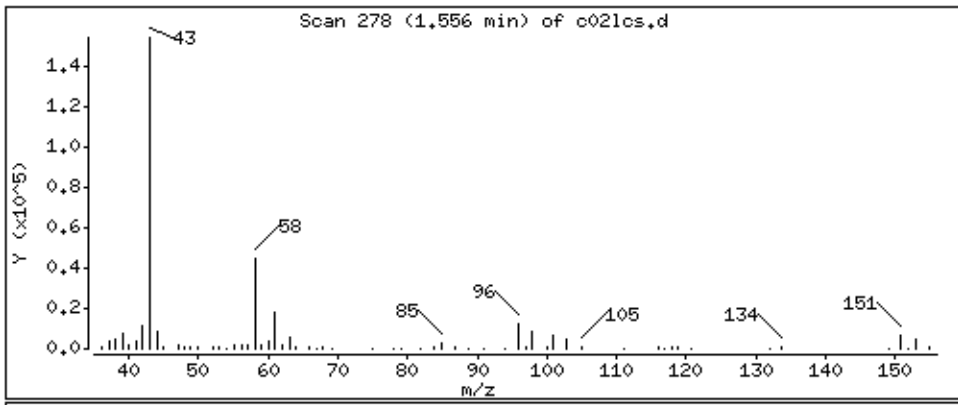
Operator: dae

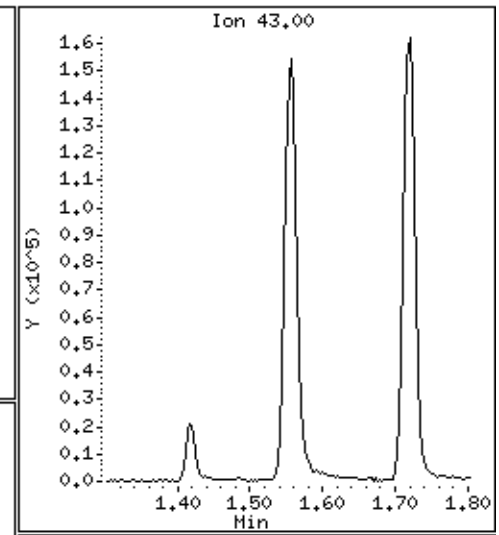
Column phase: DB-624

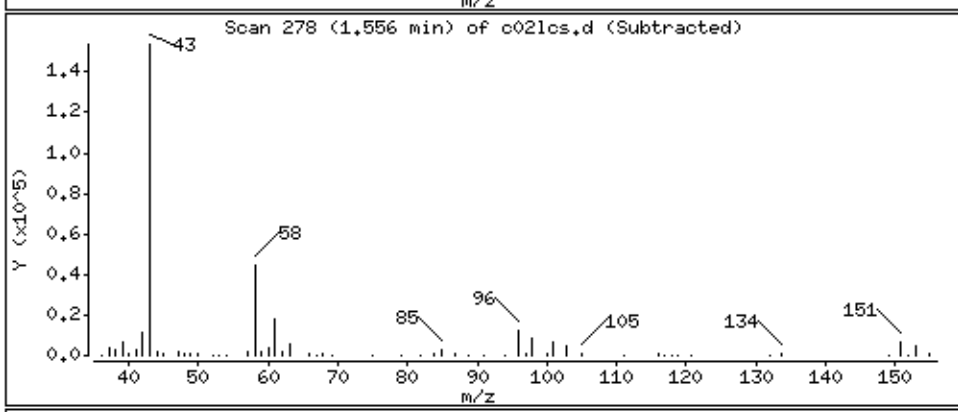
Column diameter: 0.18

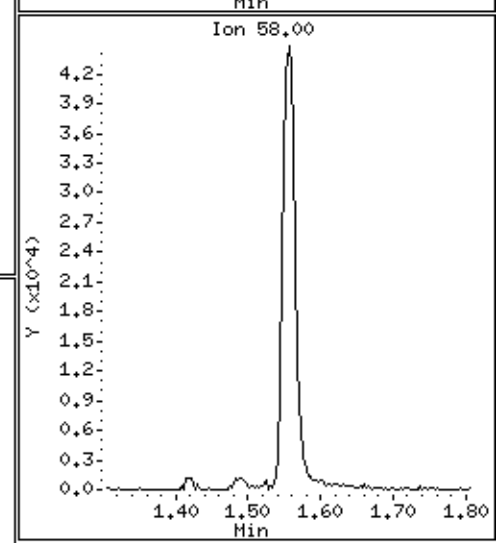
12 Acetone

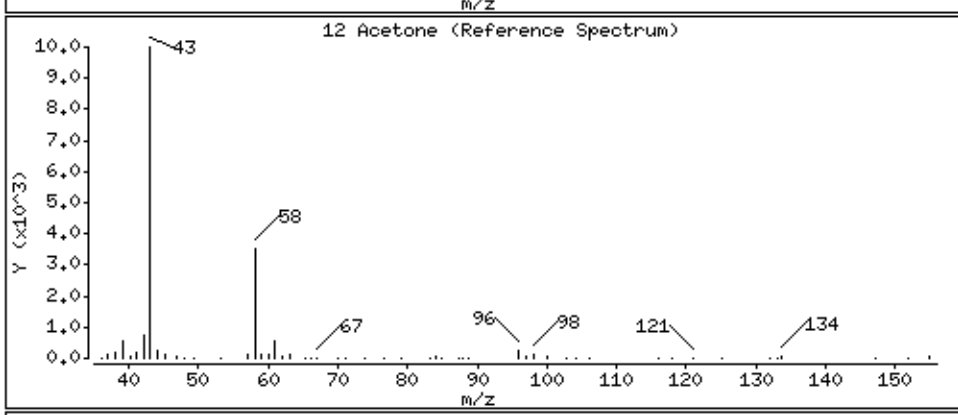
Concentration: 246 ppb

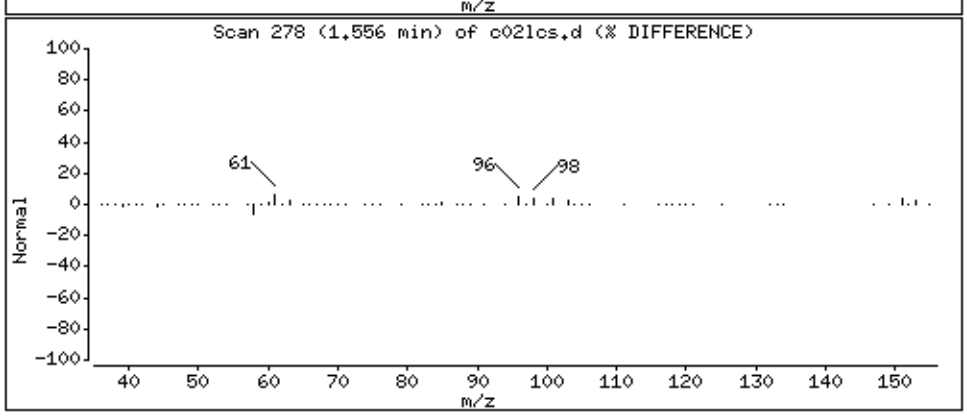












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

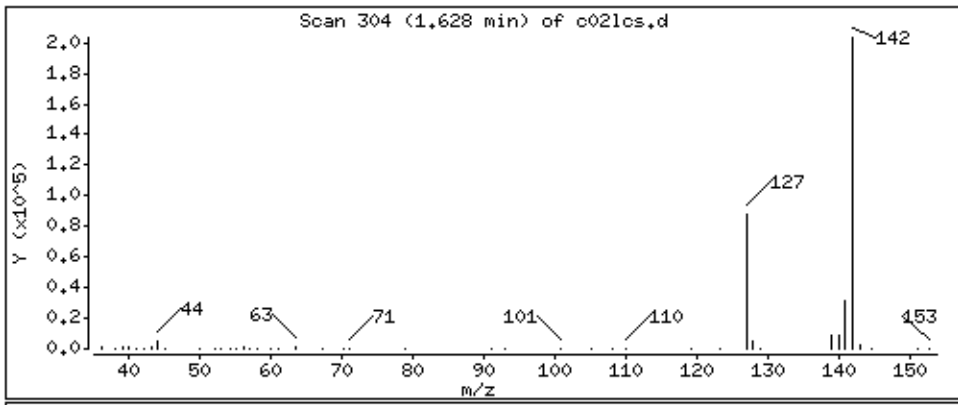
Operator: dae

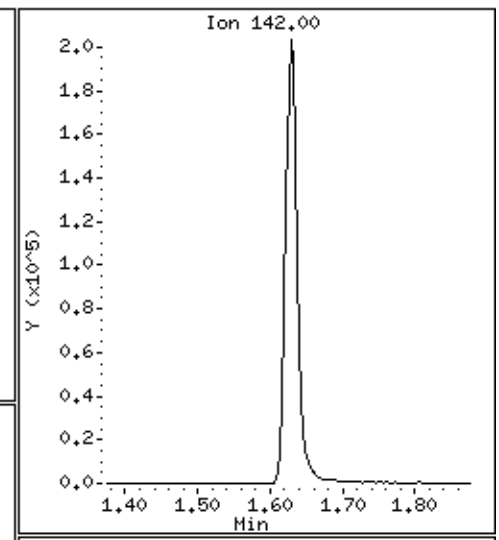
Column phase: DB-624

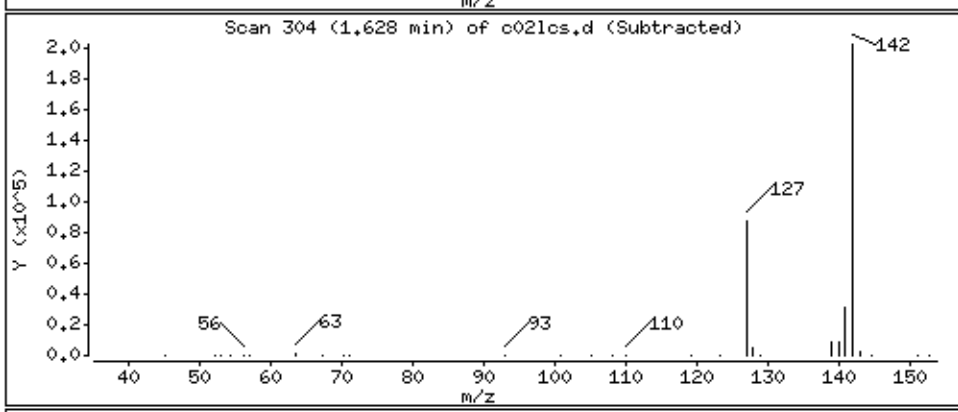
Column diameter: 0.18

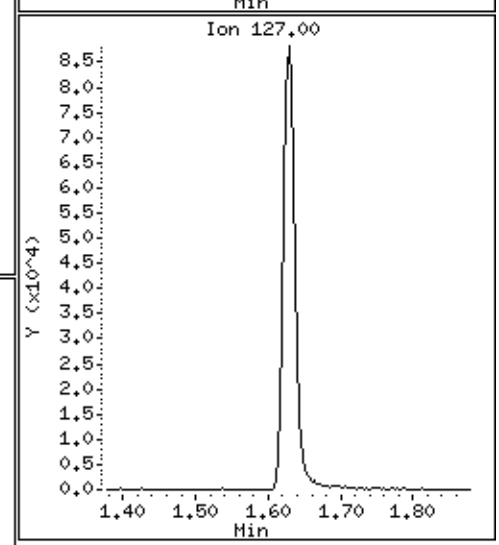
13 Iodomethane

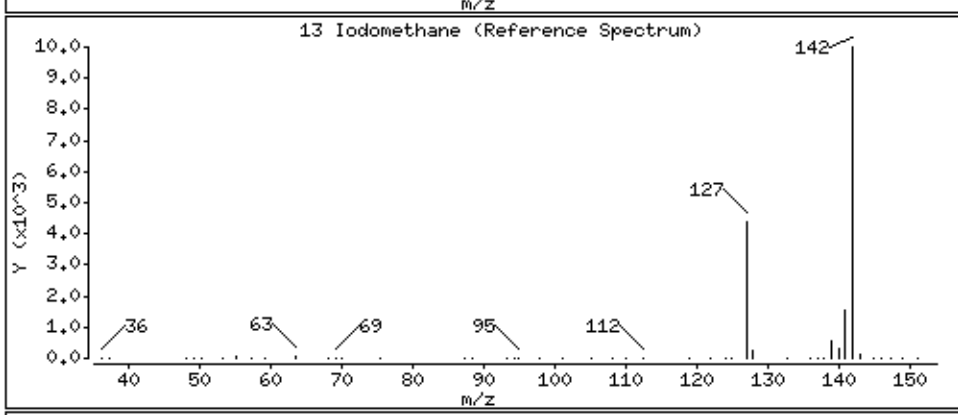
Concentration: 84.2 ppb

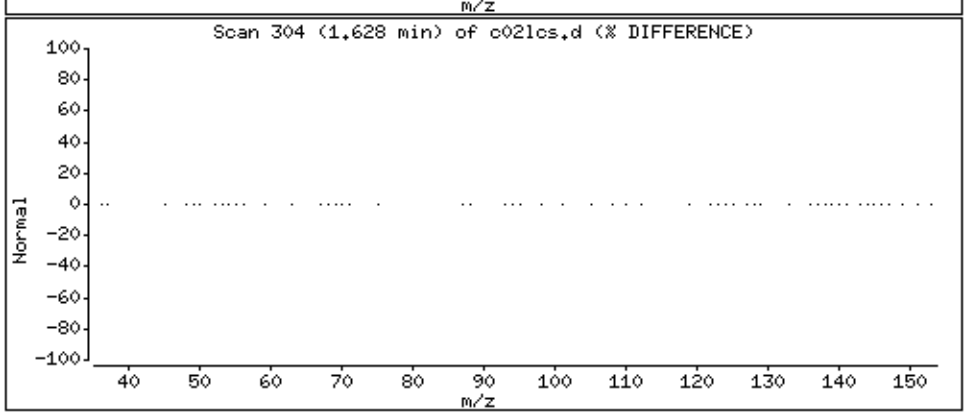












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

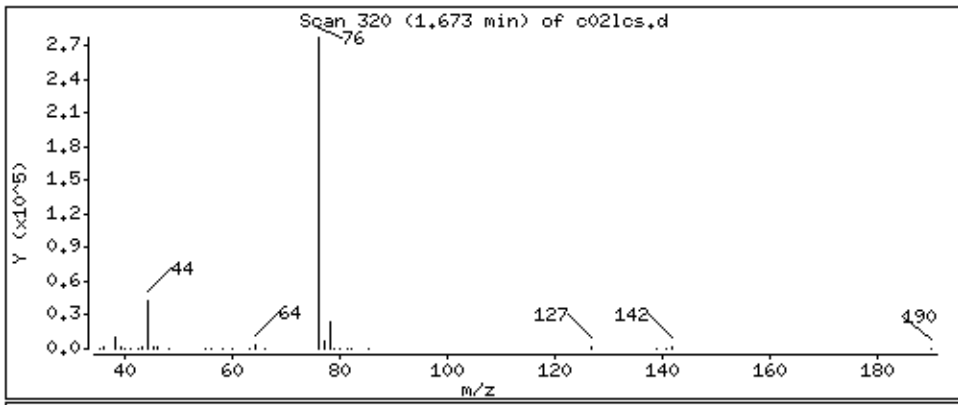
Operator: dae

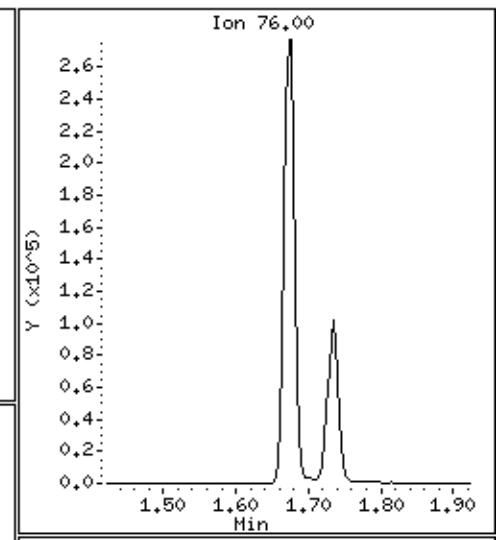
Column phase: DB-624

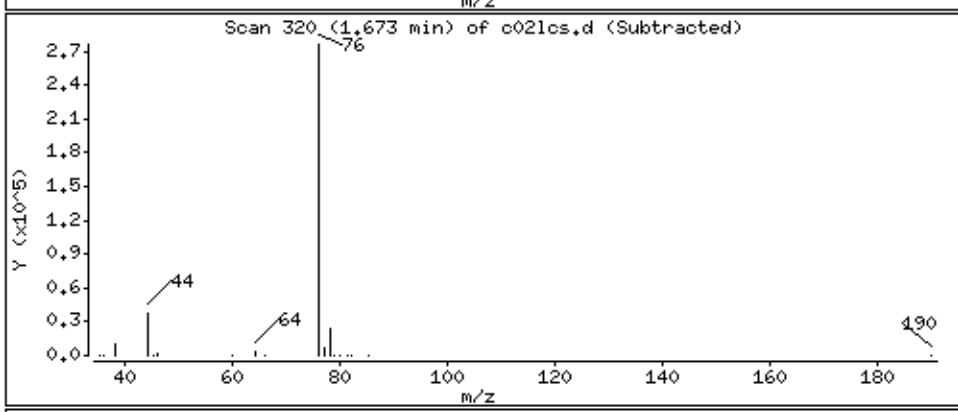
Column diameter: 0.18

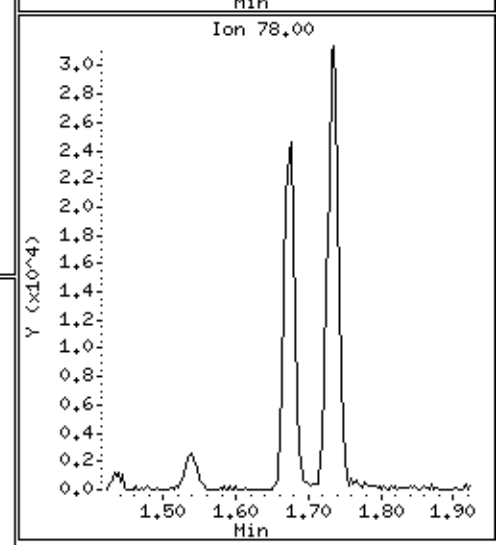
14 Carbon Disulfide

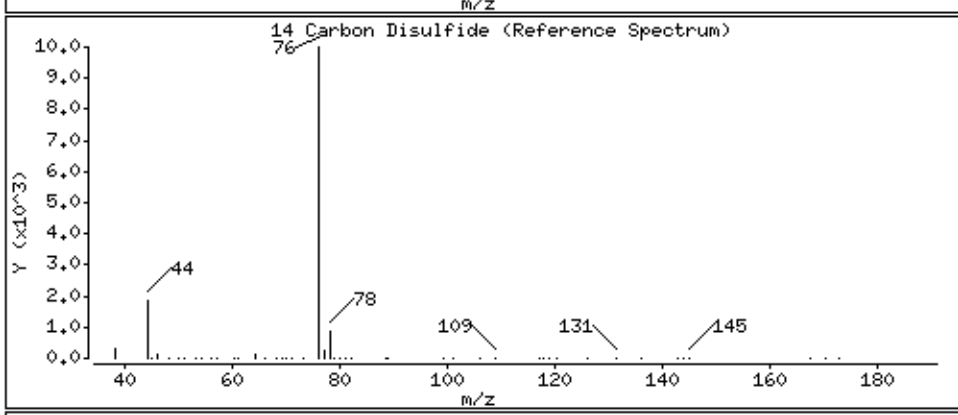
Concentration: 45.2 ppb

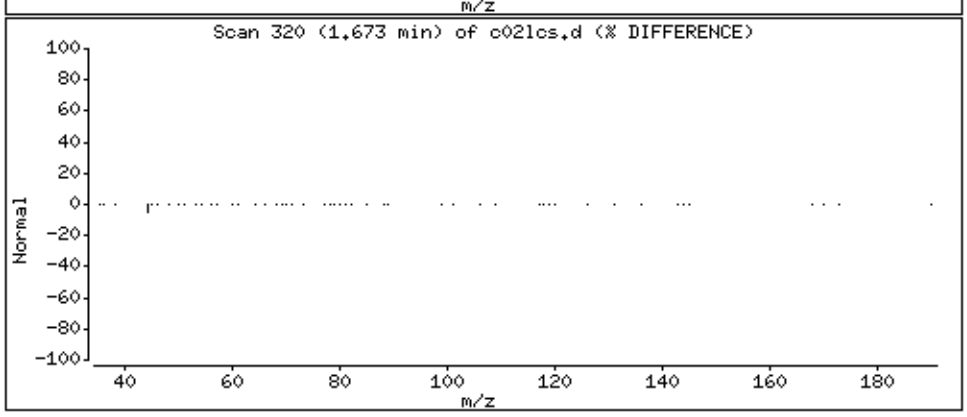












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

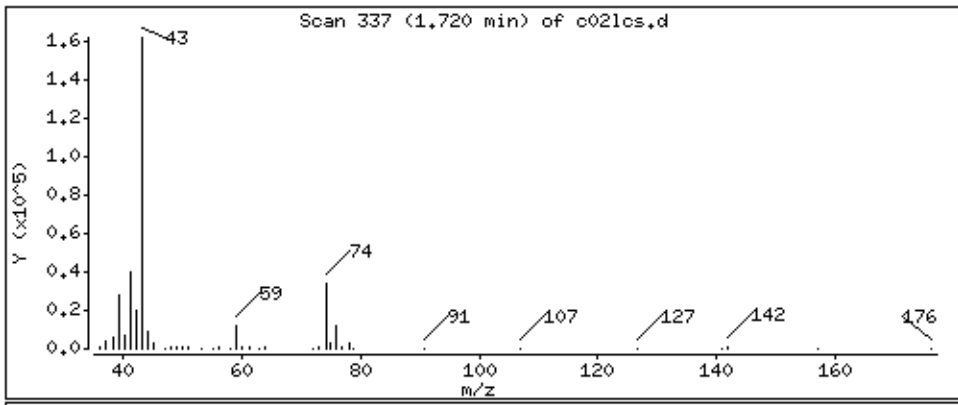
Operator: dae

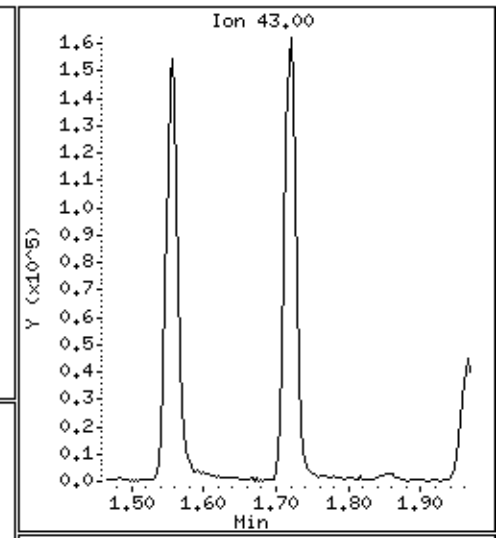
Column phase: DB-624

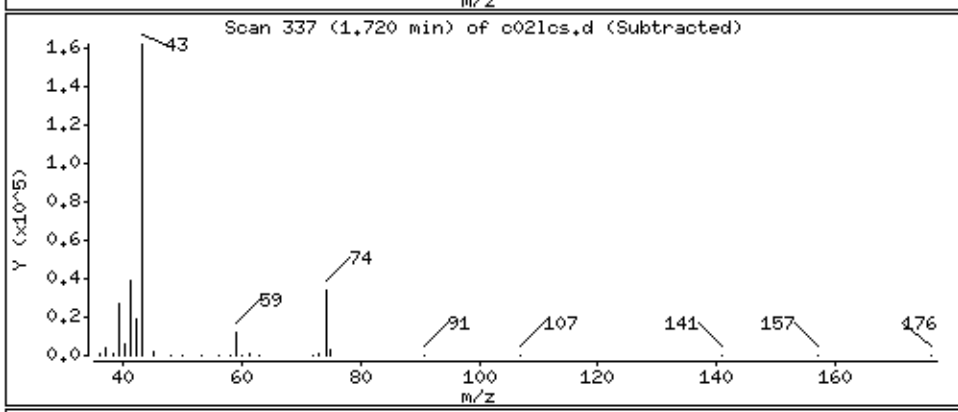
Column diameter: 0.18

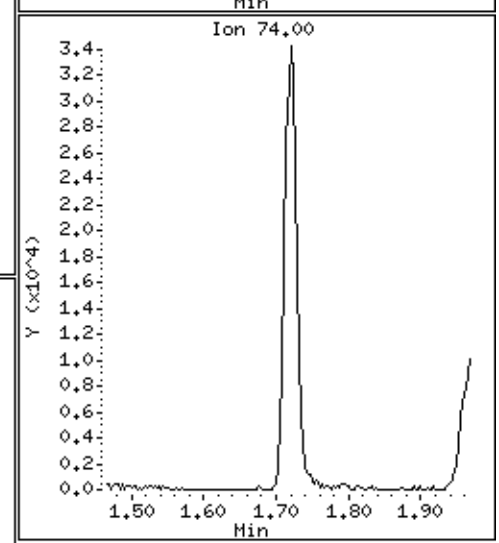
15 Methyl Acetate

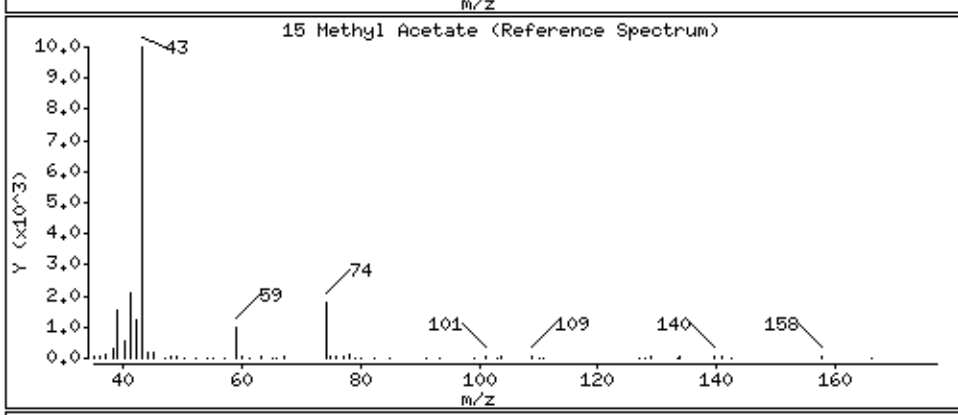
Concentration: 67.9 ppb

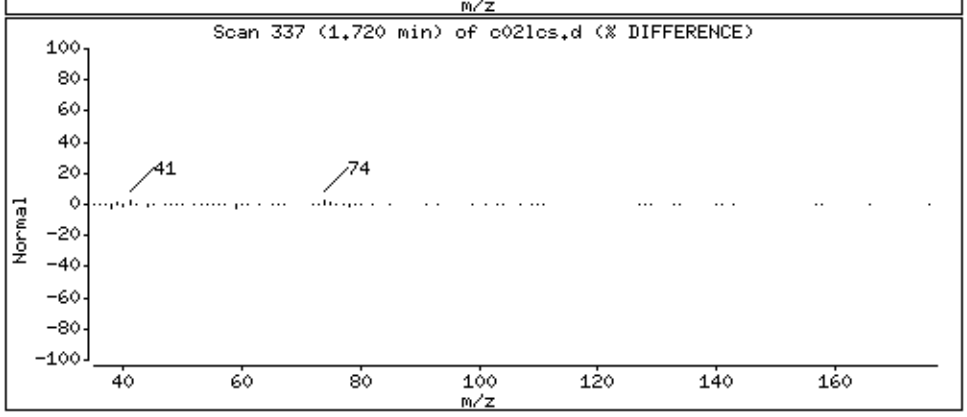












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

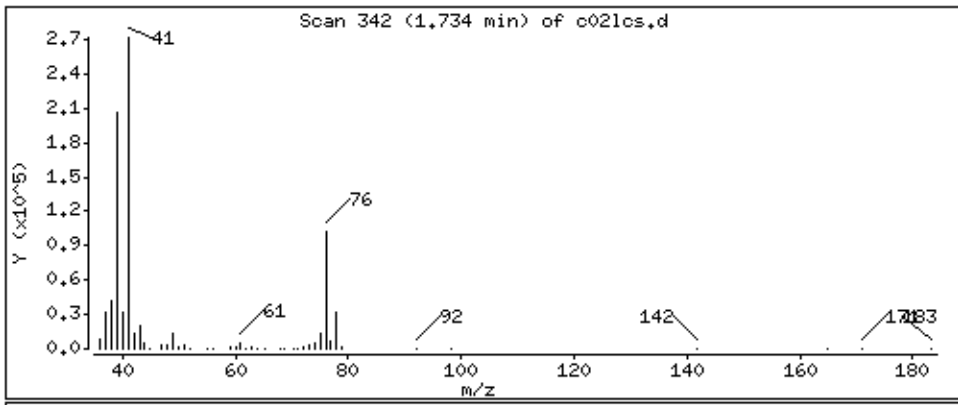
Operator: dae

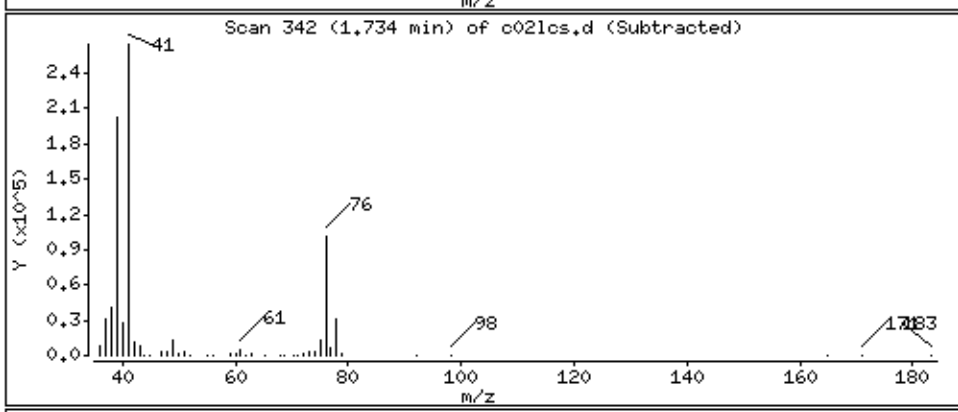
Column phase: DB-624

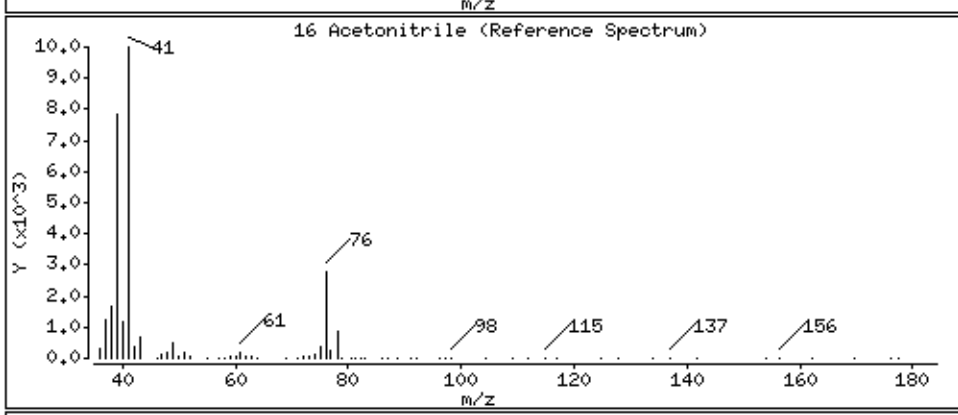
Column diameter: 0.18

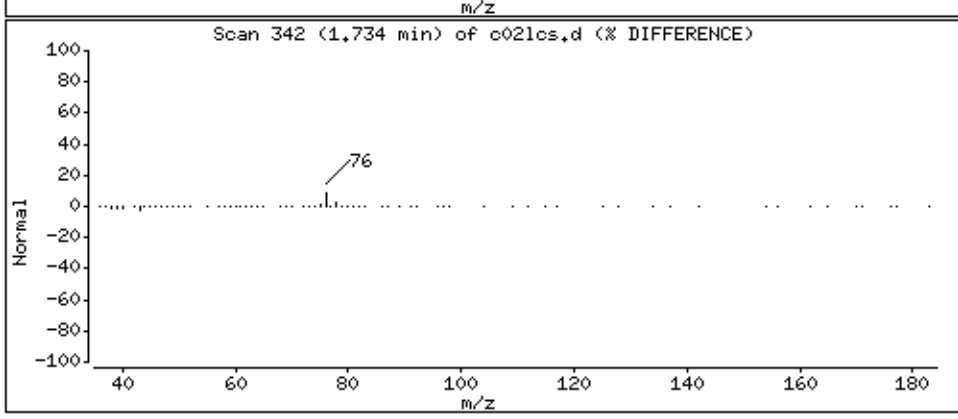
16 Acetonitrile

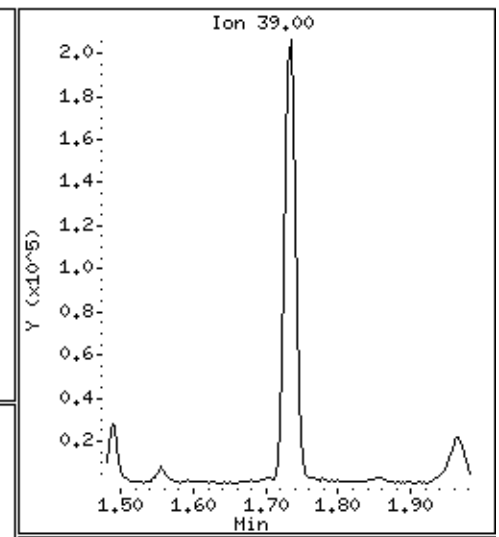
Concentration: 41.4 ppb

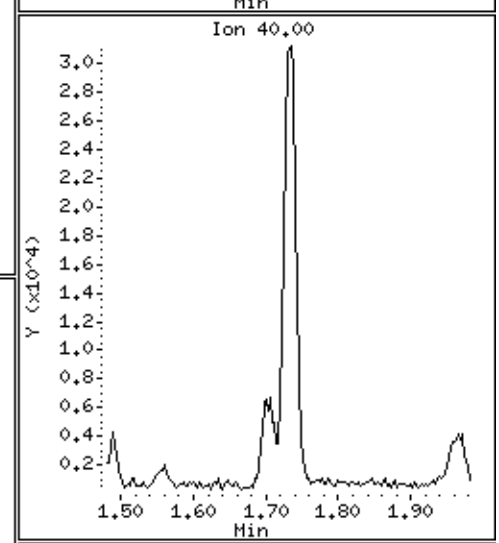


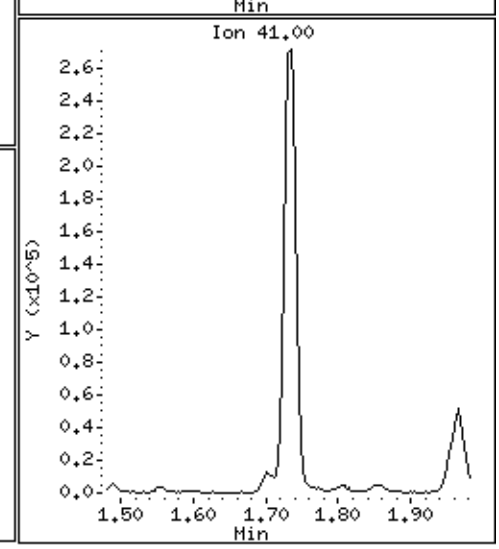












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

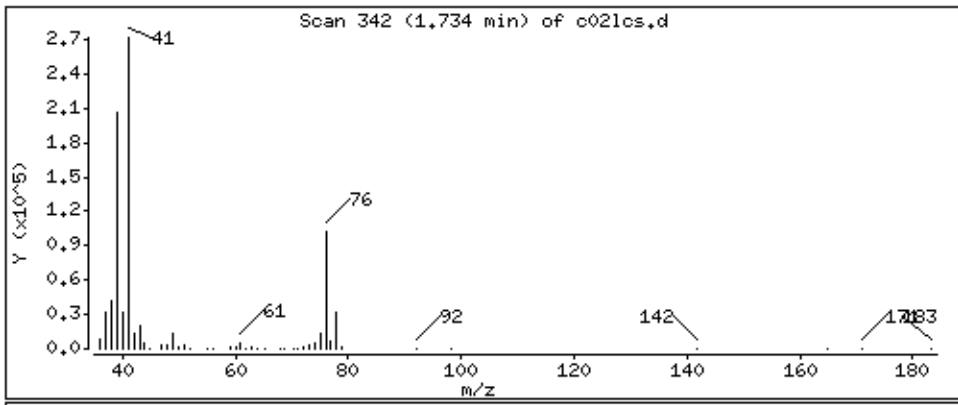
Operator: dae

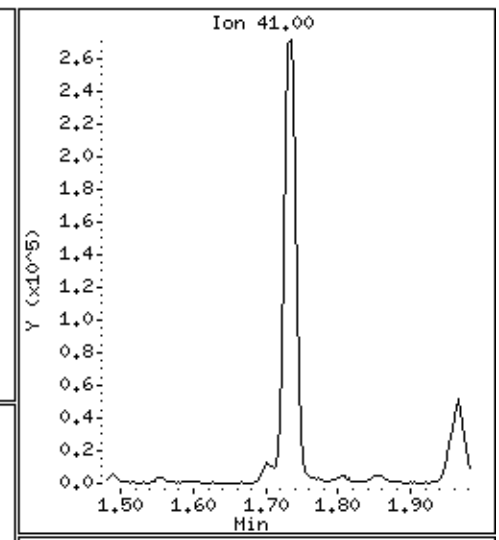
Column phase: DB-624

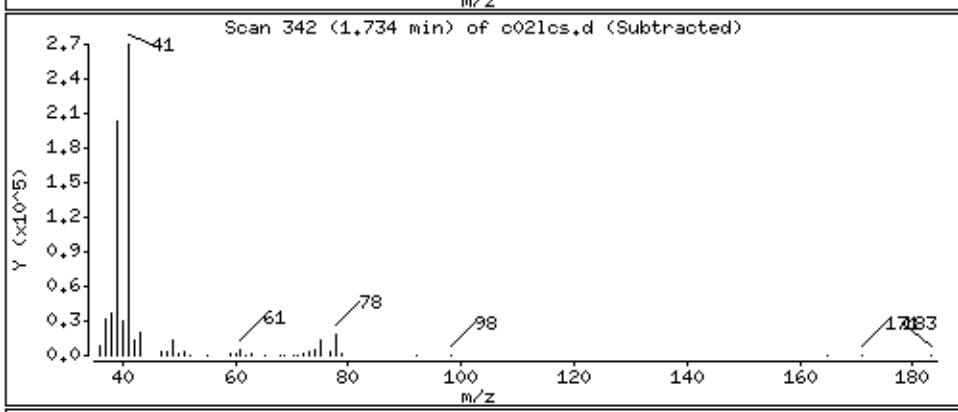
Column diameter: 0.18

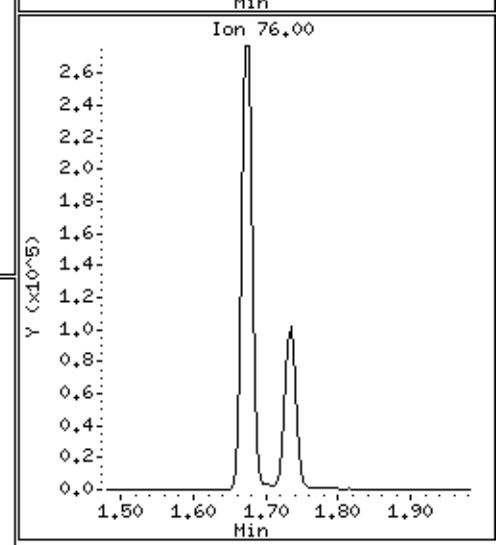
17 allyl chloride

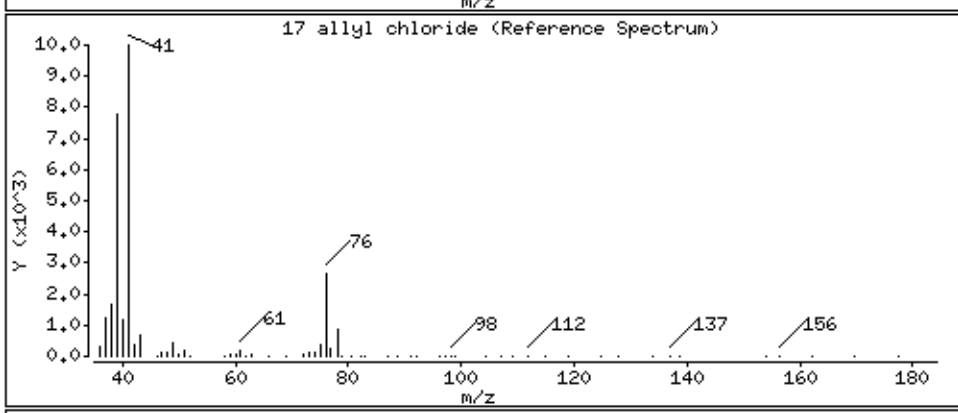
Concentration: 86.8 ppb

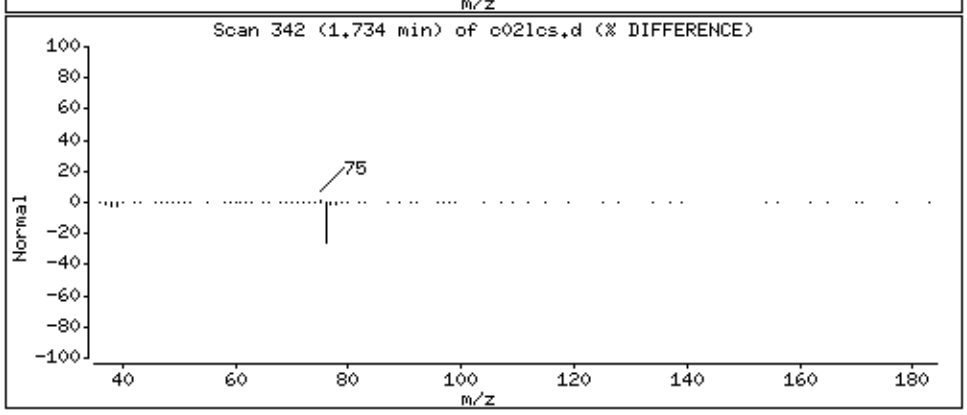












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

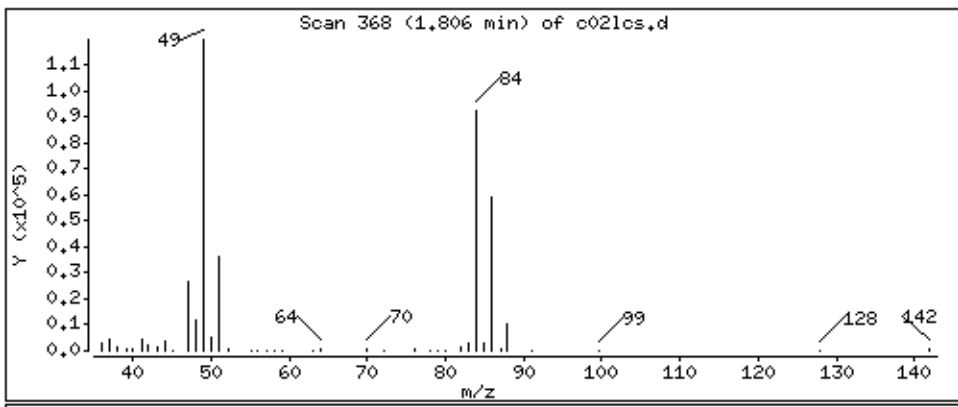
Operator: dae

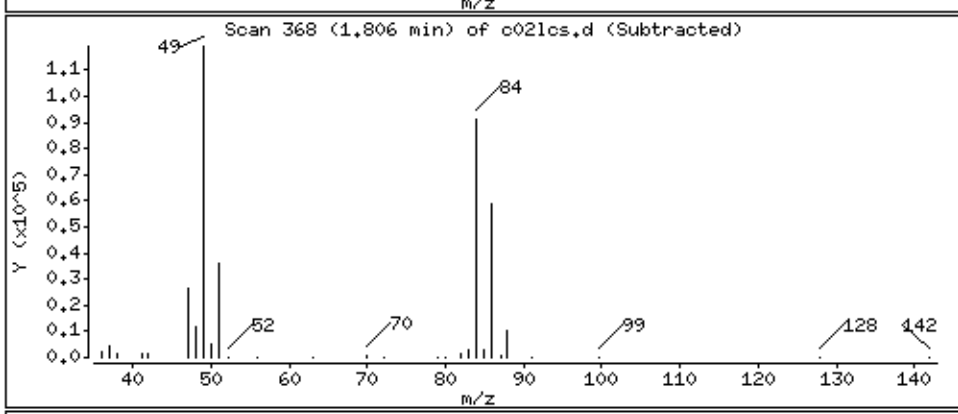
Column phase: DB-624

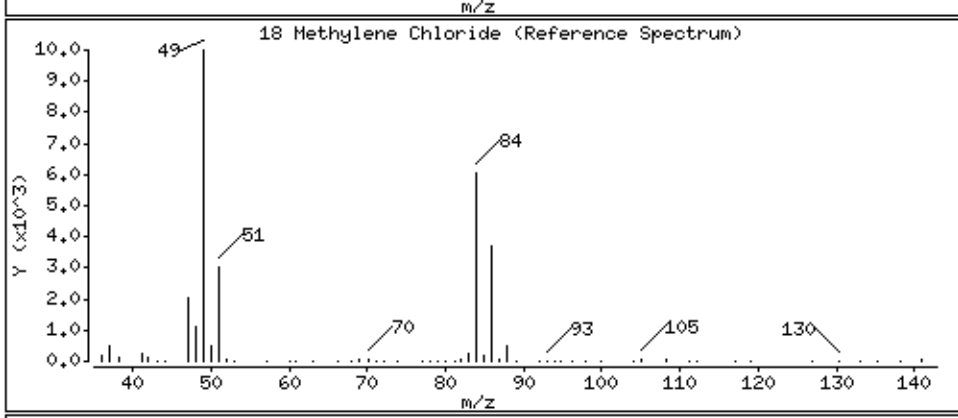
Column diameter: 0.18

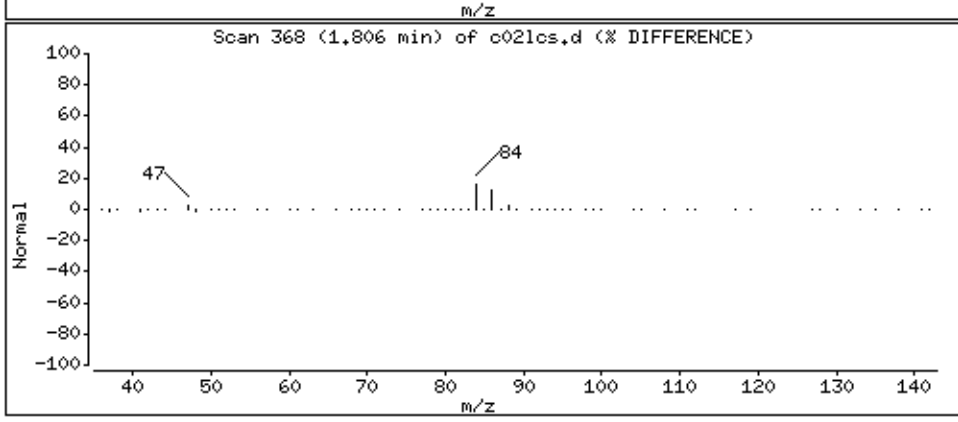
18 Methylene Chloride

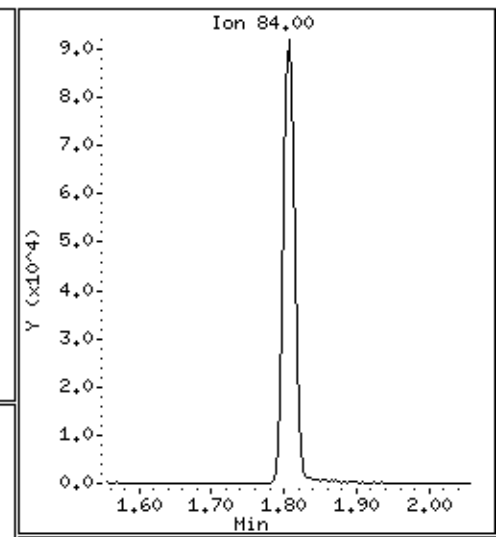
Concentration: 50.7 ppb

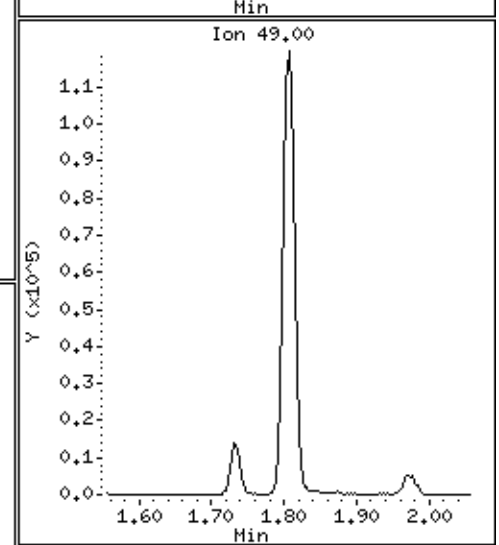


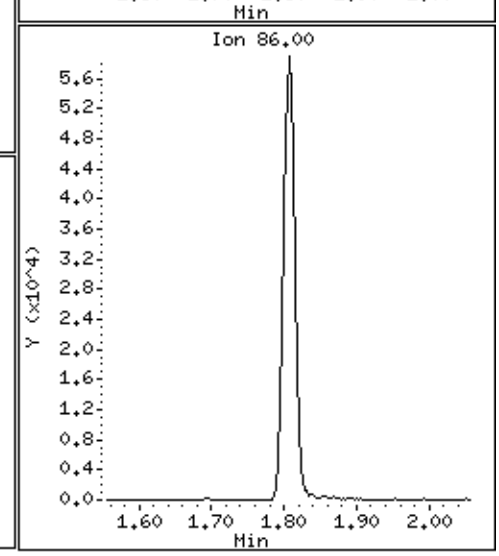












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

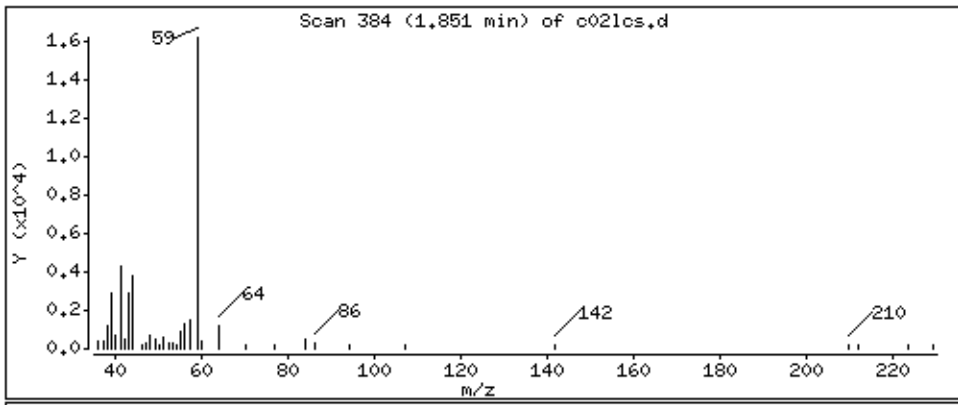
Operator: dae

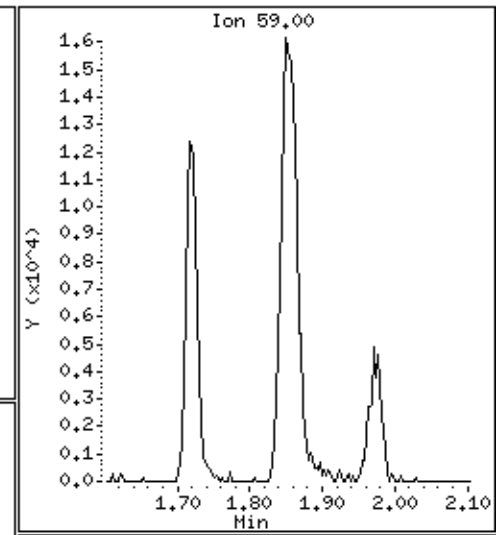
Column phase: DB-624

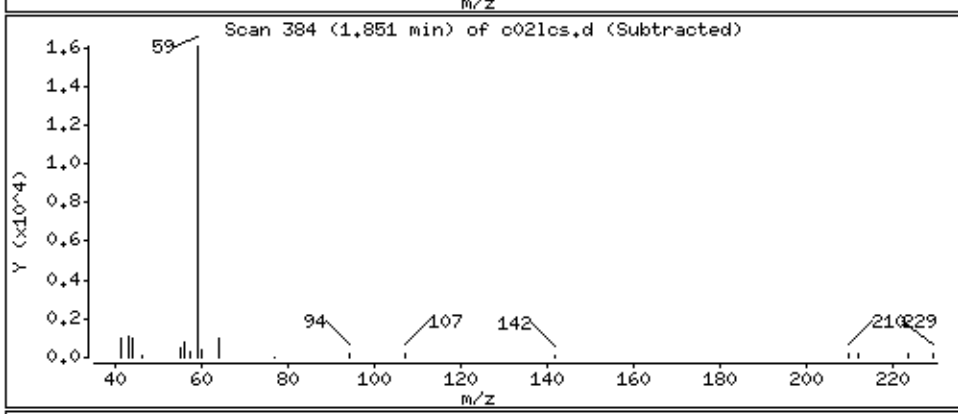
Column diameter: 0.18

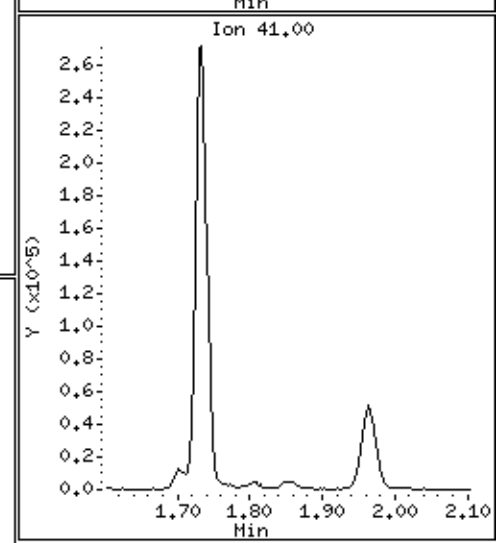
19 tert-Butyl Alcohol

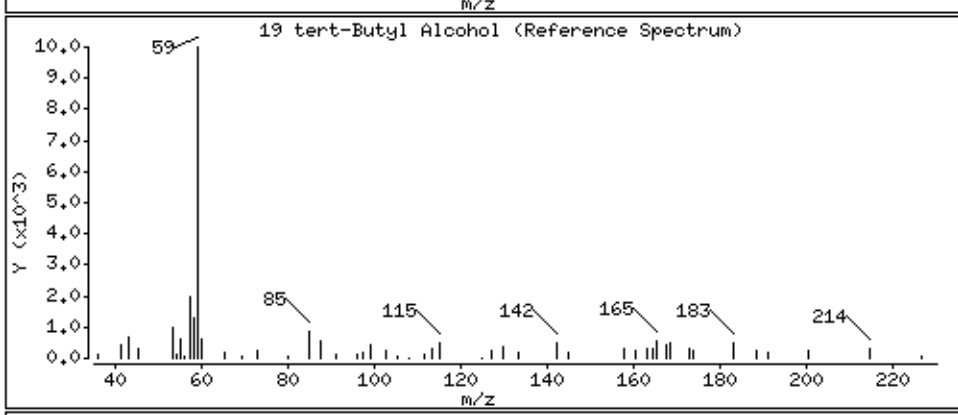
Concentration: 100 ppb

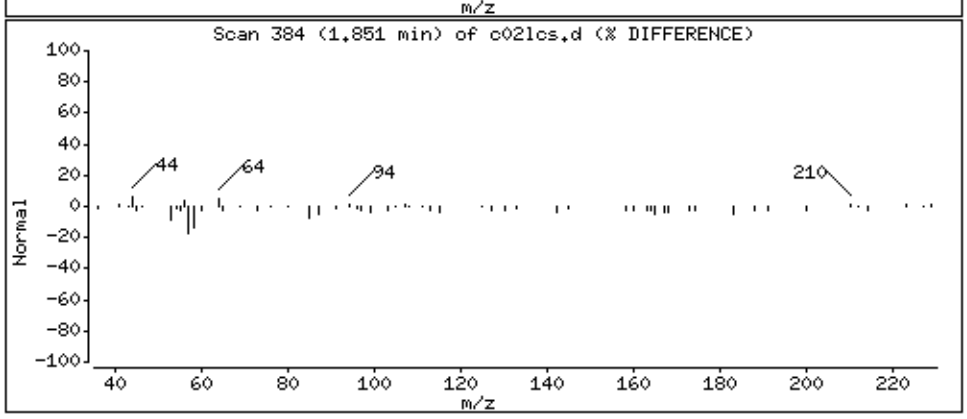












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

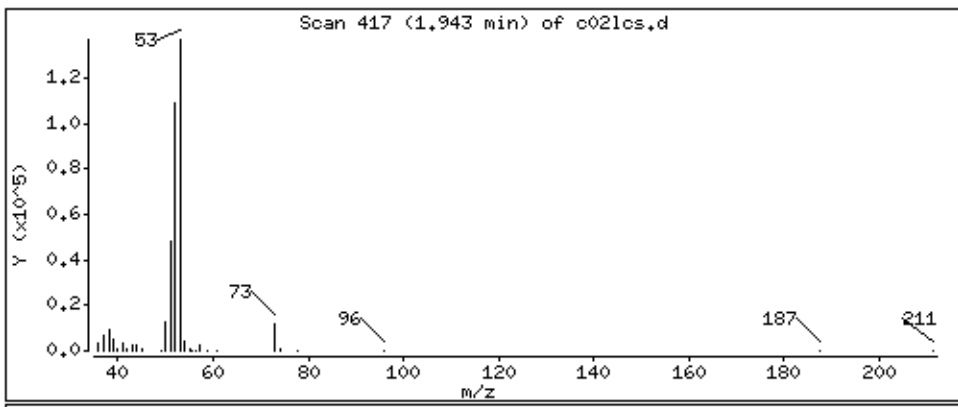
Operator: dae

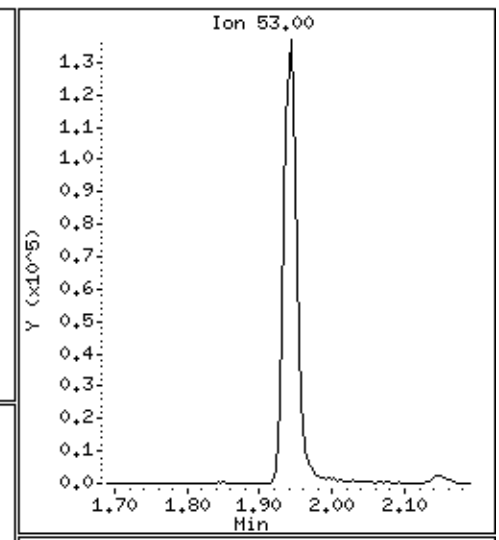
Column phase: DB-624

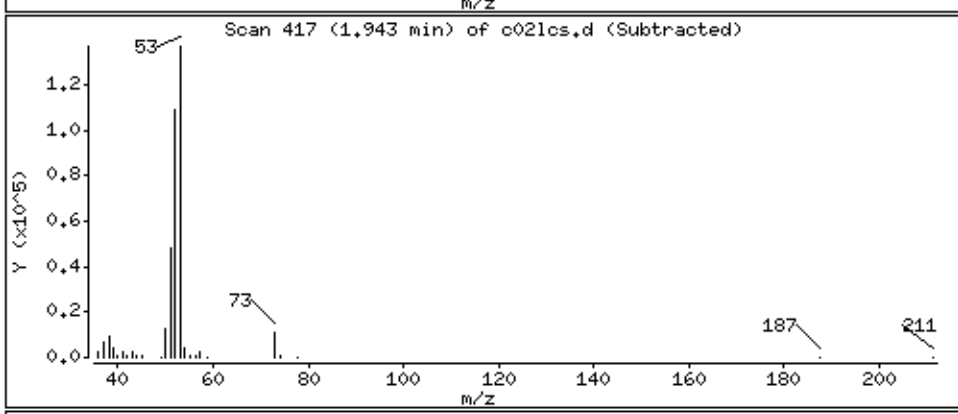
Column diameter: 0.18

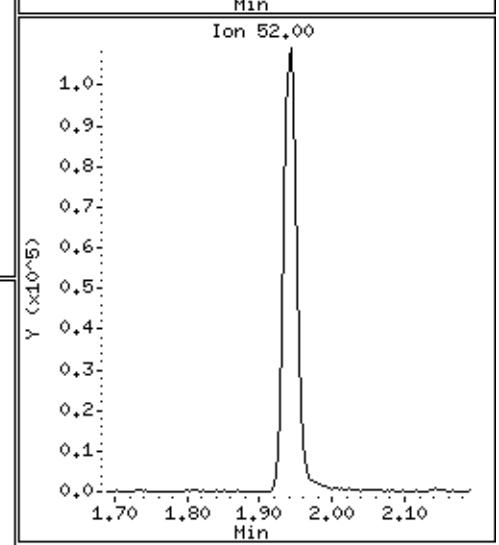
20 Acrylonitrile

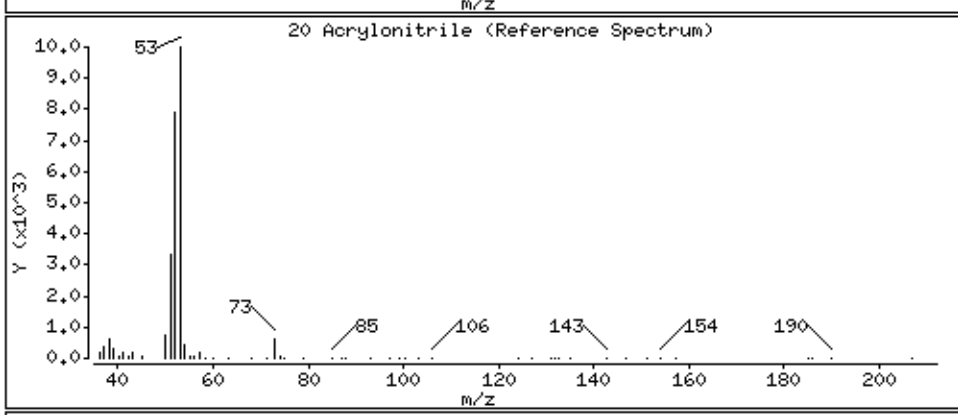
Concentration: 187 ppb

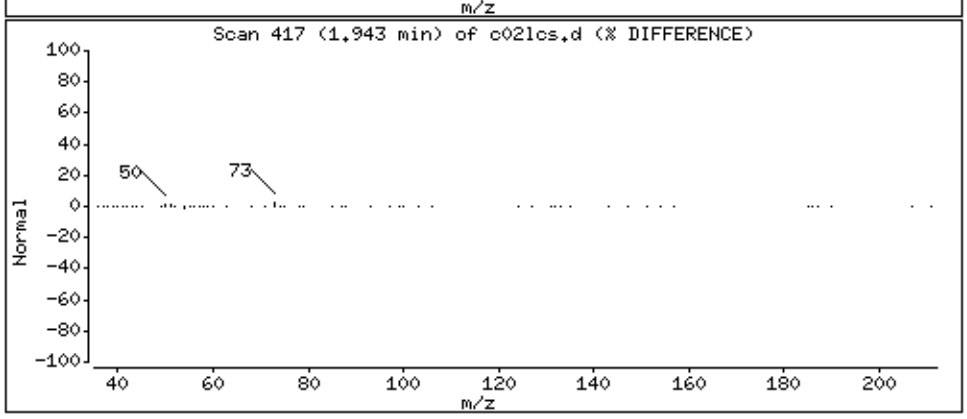












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Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

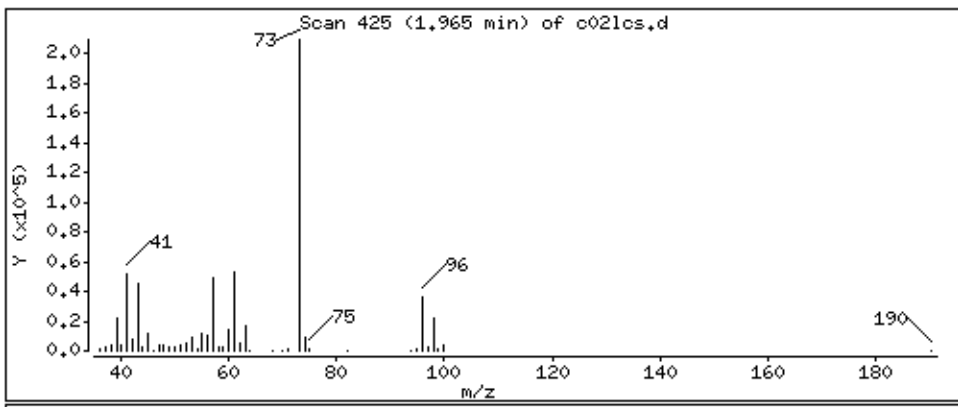
Operator: dae

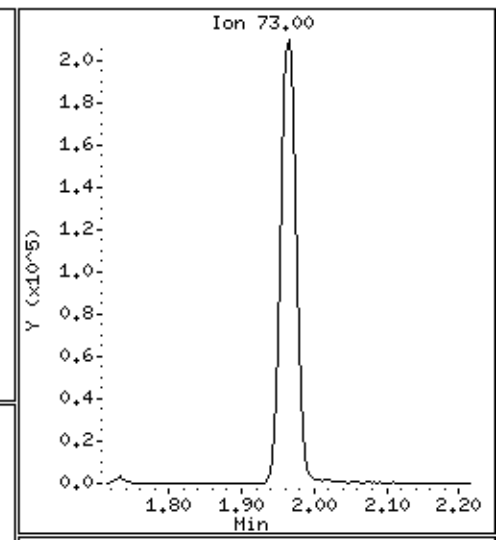
Column phase: DB-624

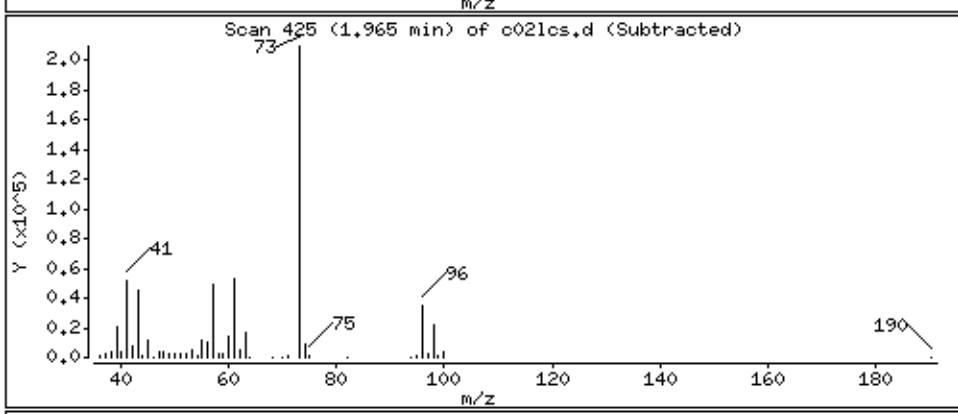
Column diameter: 0.18

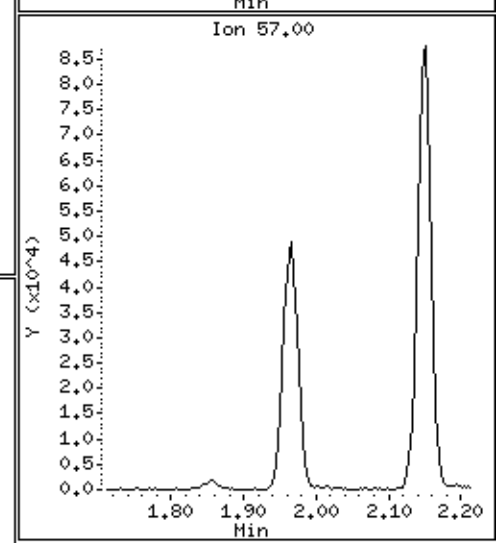
21 Methyl-tert-butyl ether

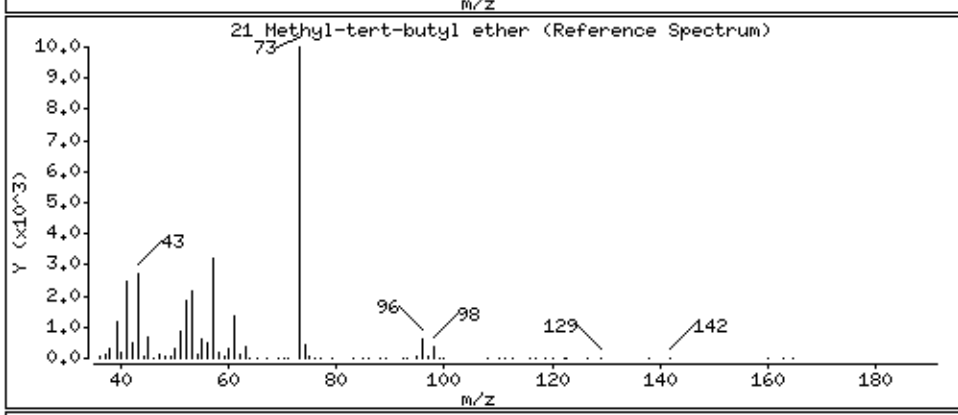
Concentration: 45.2 ppb

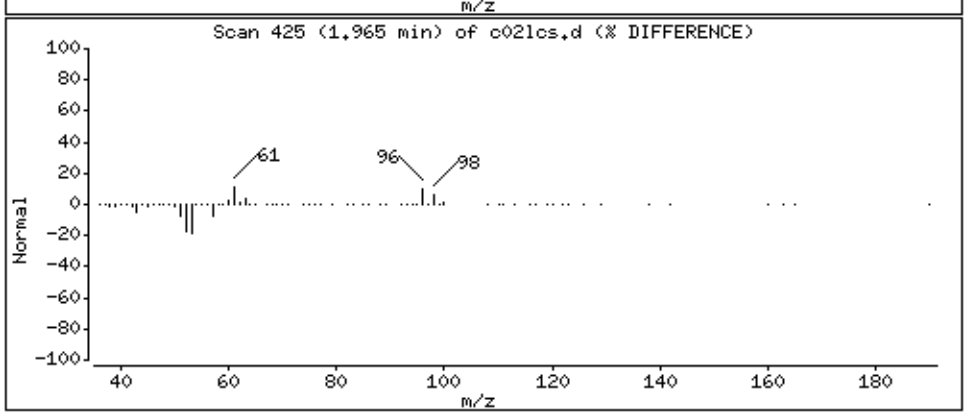












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

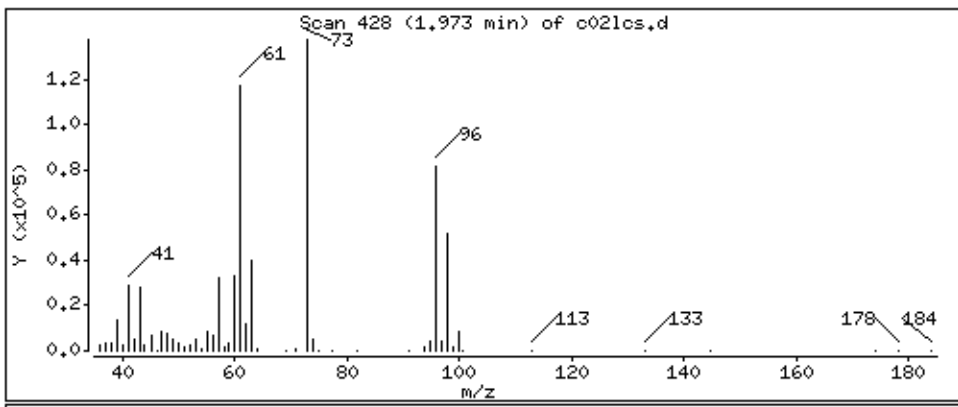
Operator: dae

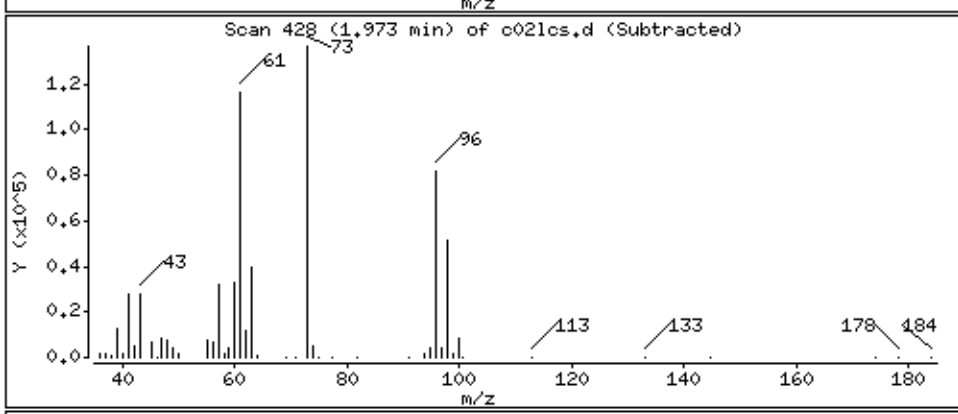
Column phase: DB-624

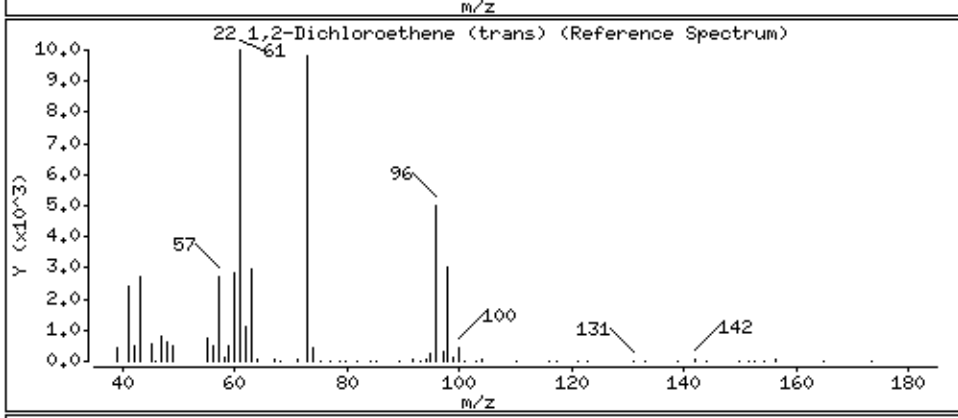
Column diameter: 0.18

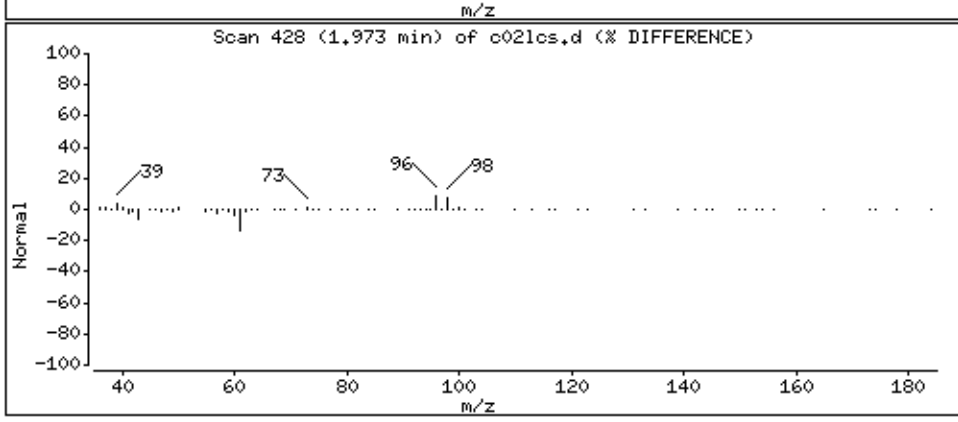
22 1,2-Dichloroethene (trans)

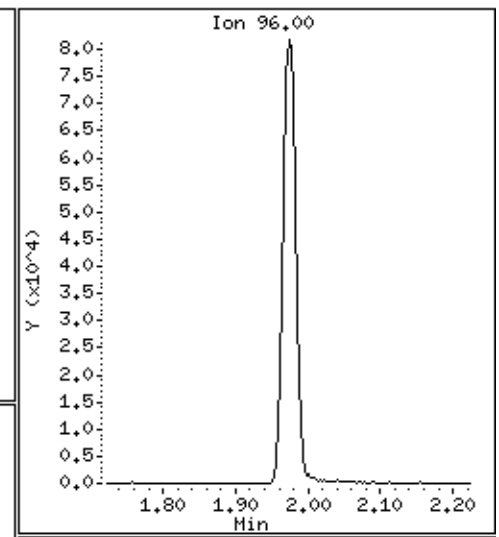
Concentration: 48.0 ppb

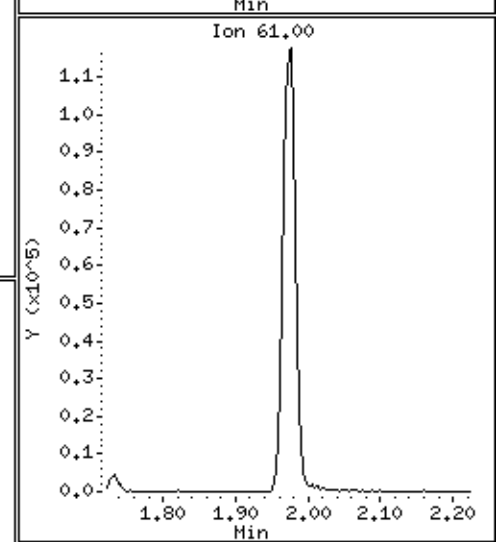


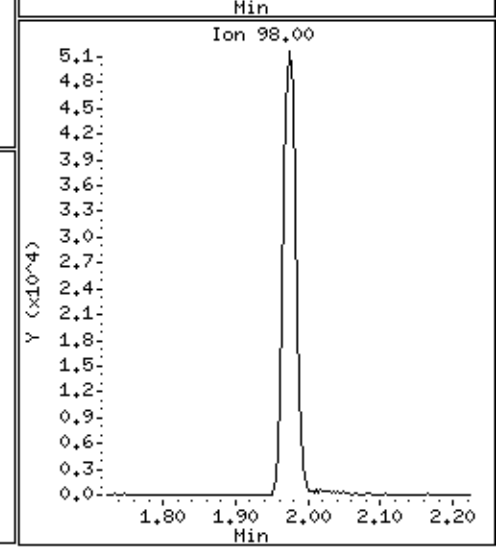












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

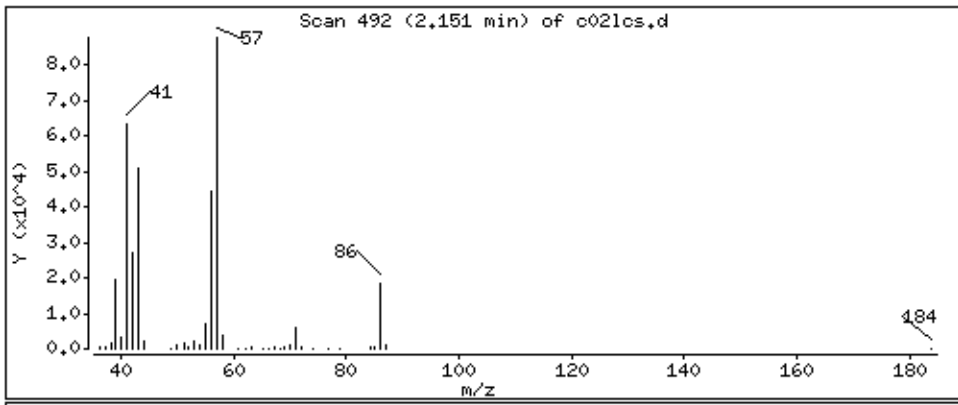
Operator: dae

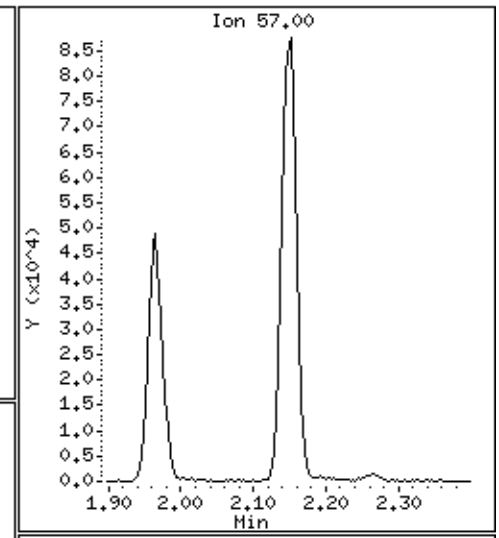
Column phase: DB-624

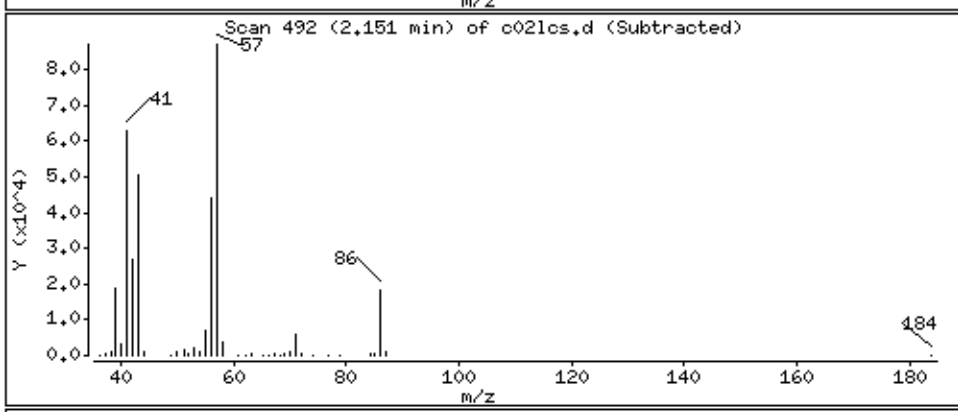
Column diameter: 0.18

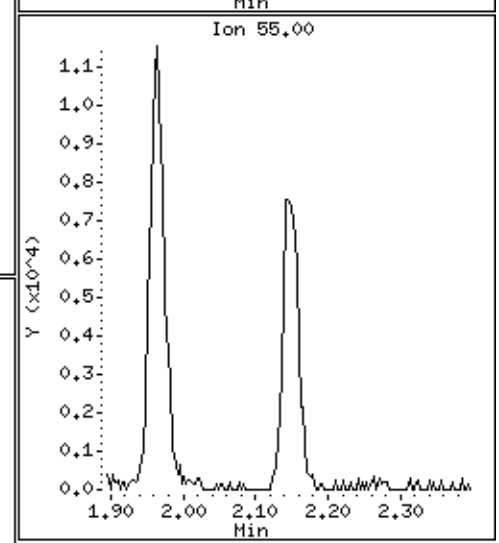
23 n-Hexane

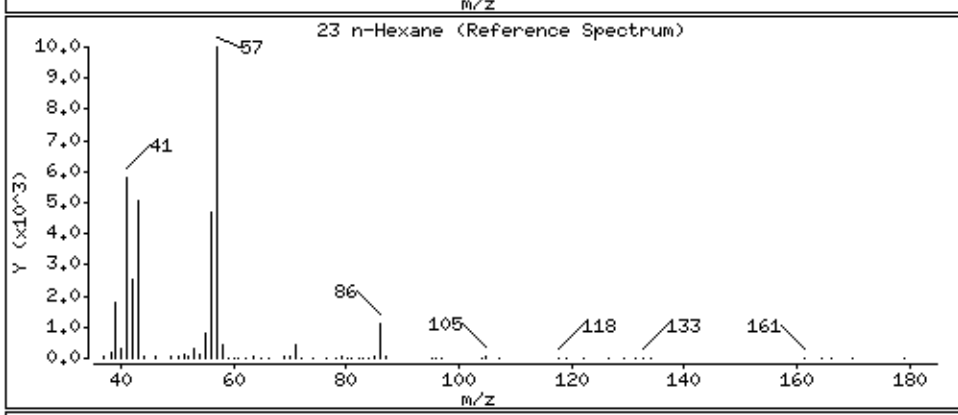
Concentration: 42.4 ppb

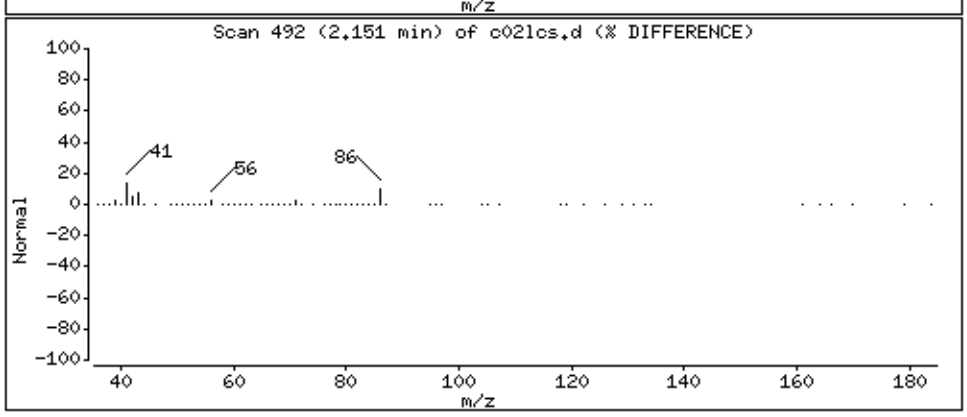












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

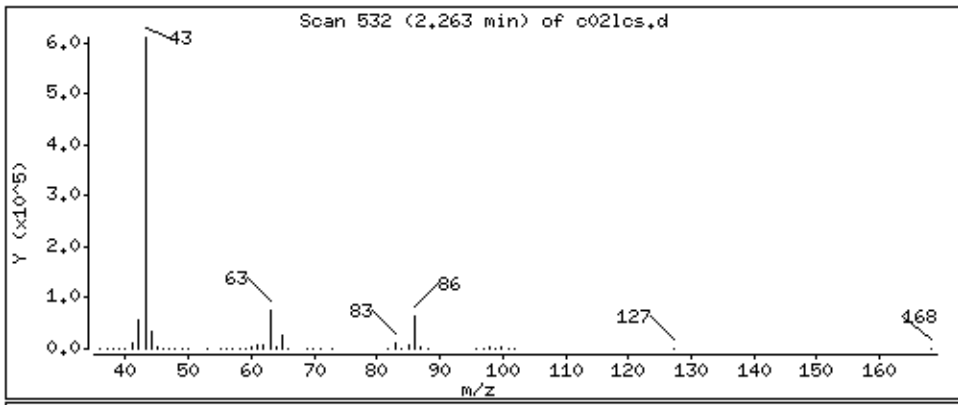
Operator: dae

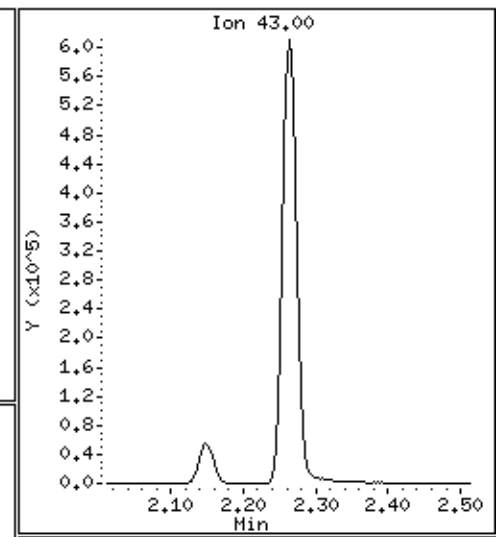
Column phase: DB-624

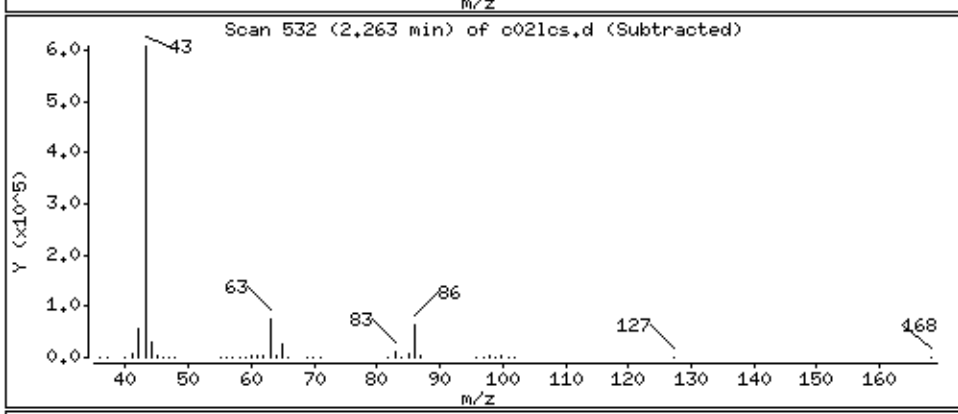
Column diameter: 0.18

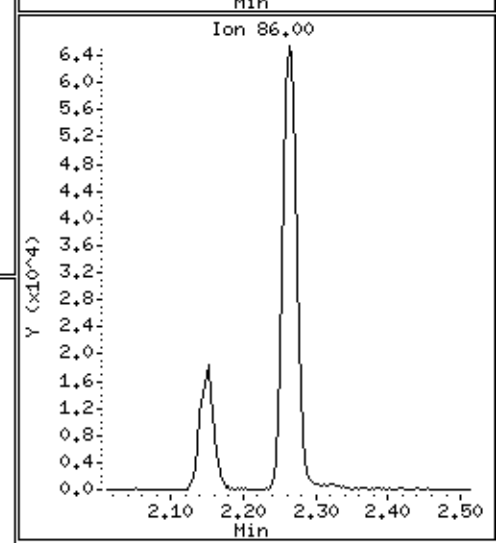
24 Vinyl Acetate

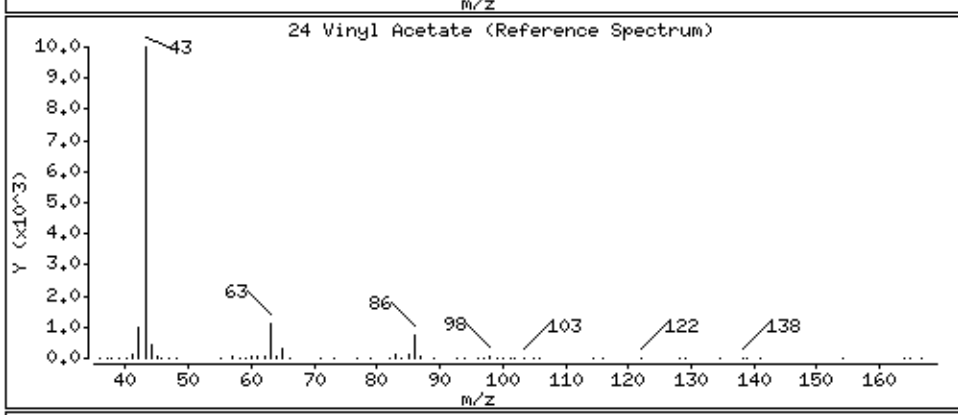
Concentration: 179 ppb

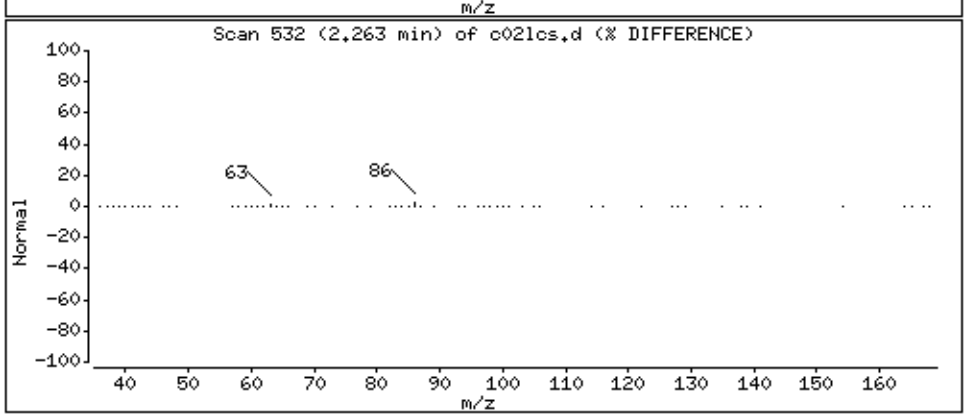












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

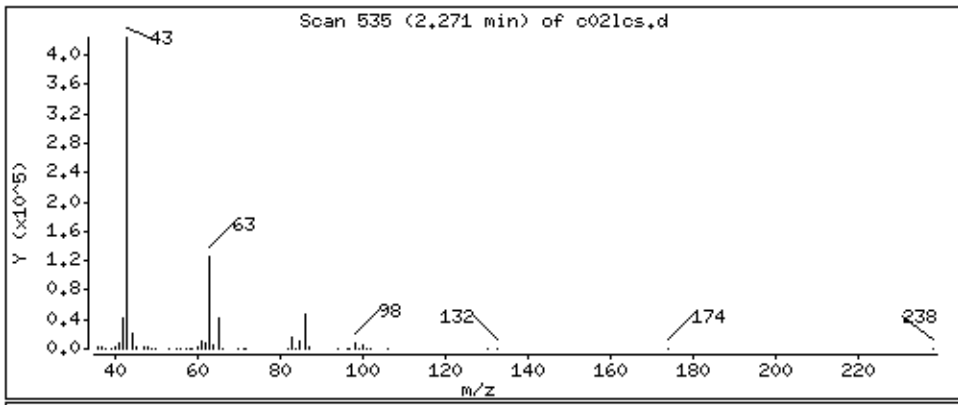
Operator: dae

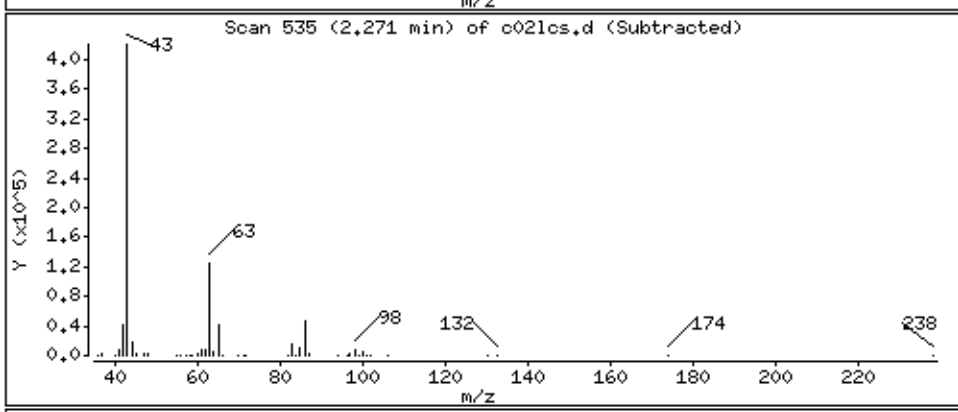
Column phase: DB-624

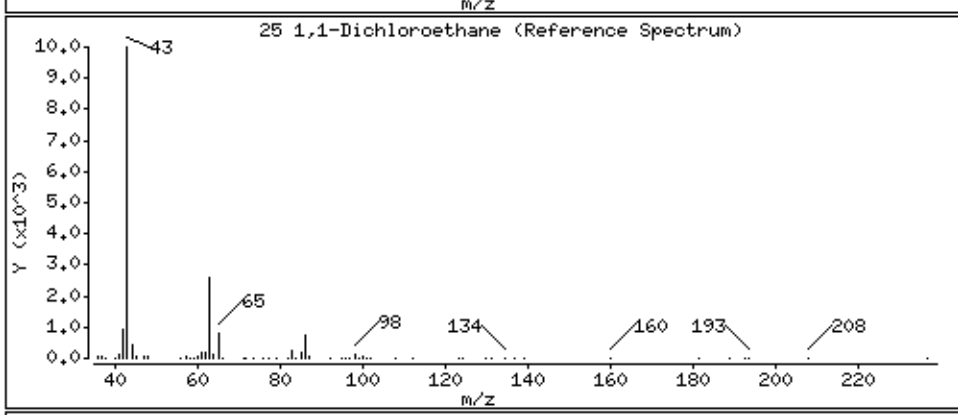
Column diameter: 0.18

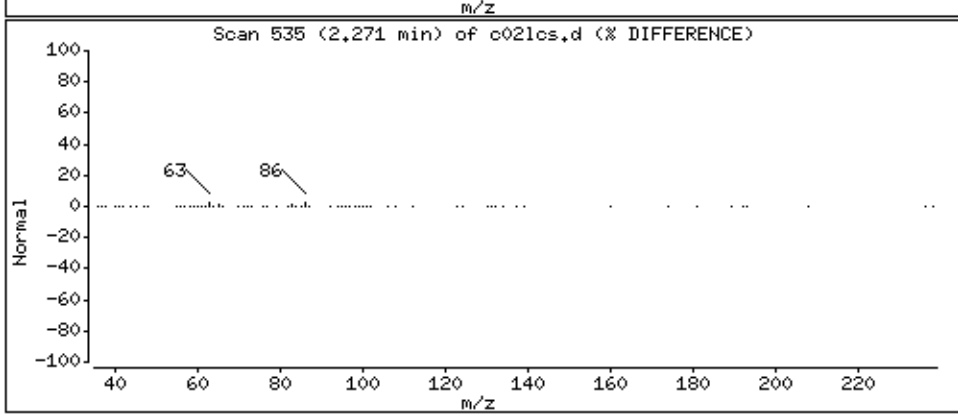
25 1,1-Dichloroethane

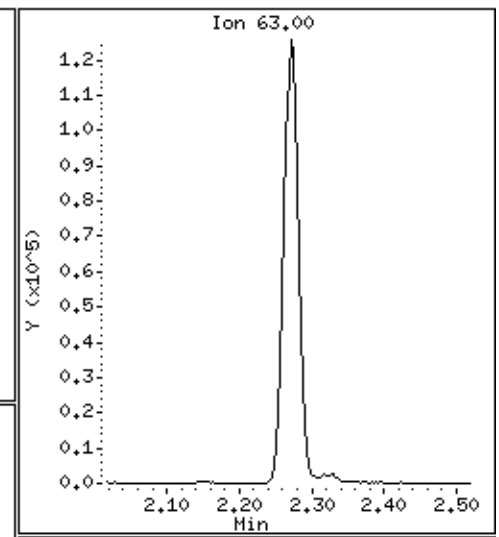
Concentration: 48.0 ppb

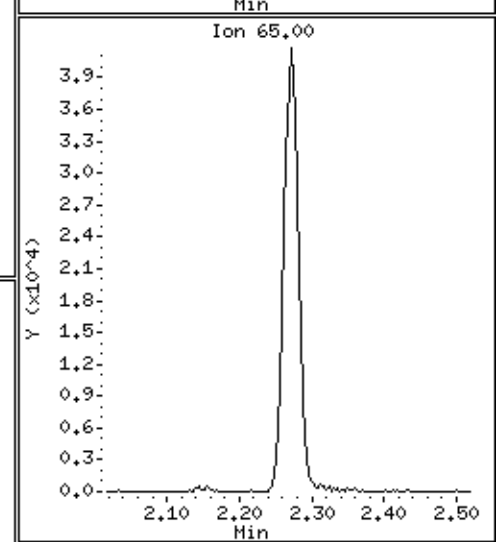


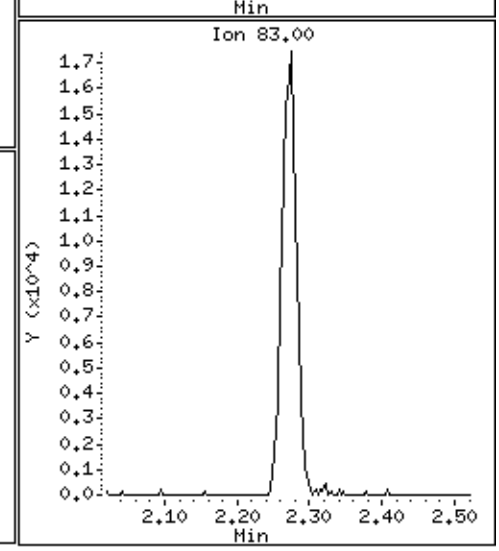












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

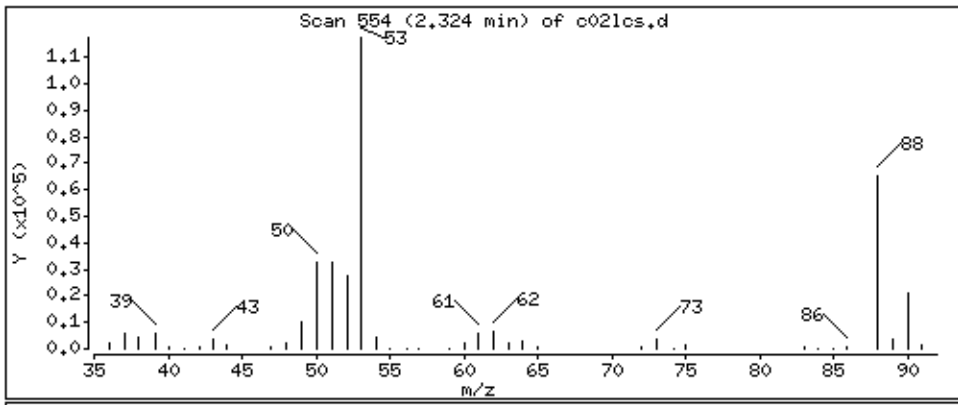
Operator: dae

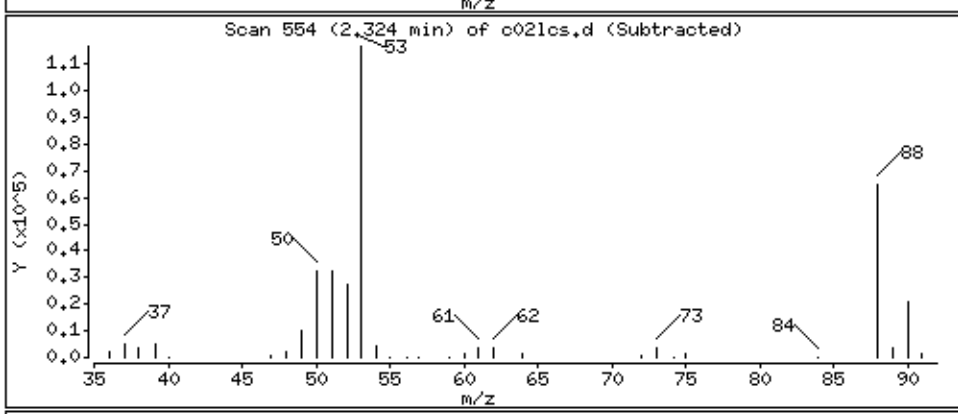
Column phase: DB-624

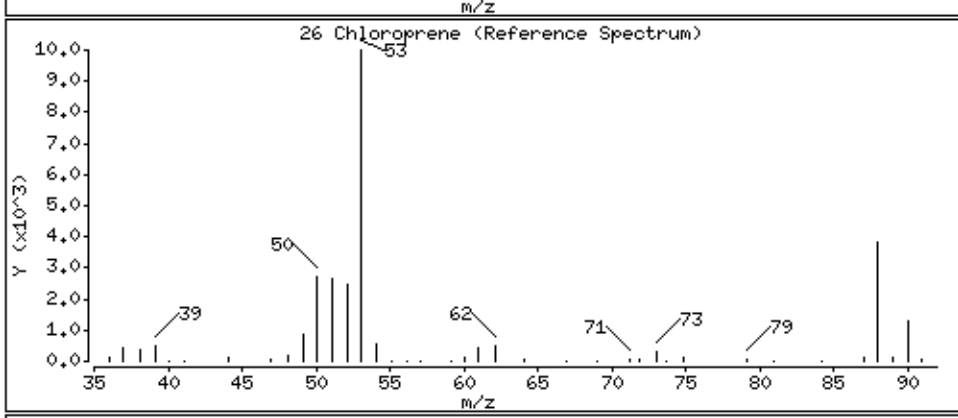
Column diameter: 0.18

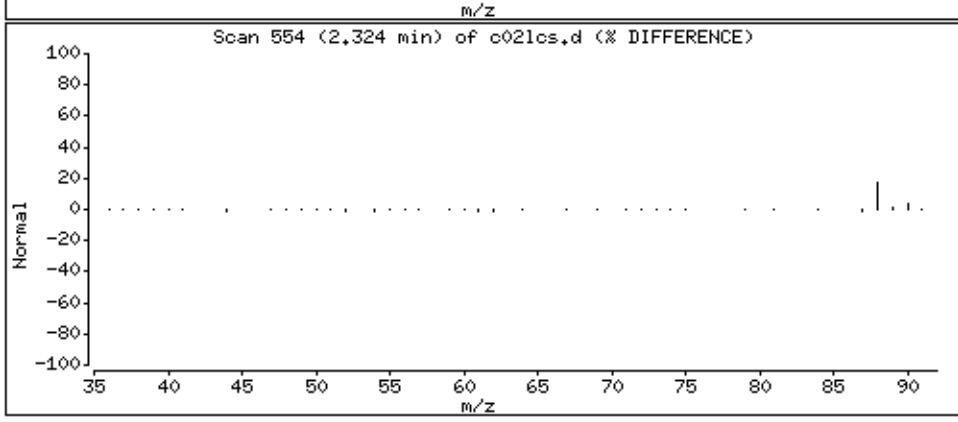
26 Chloroprene

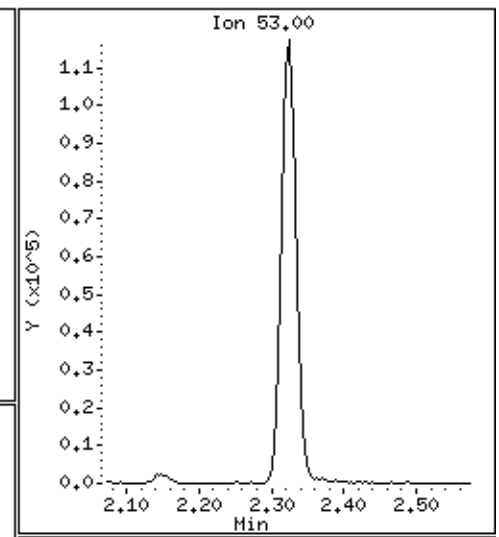
Concentration: 49.5 ppb

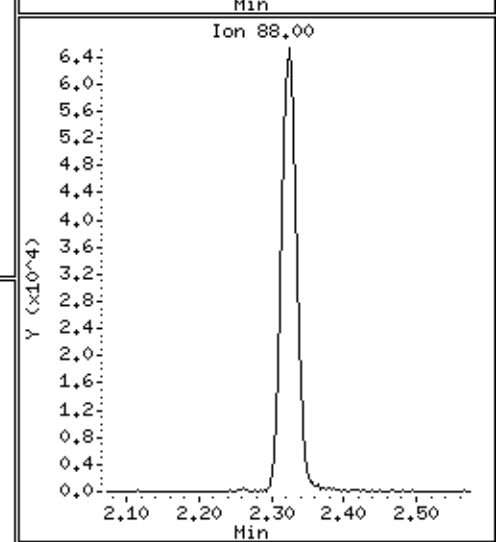


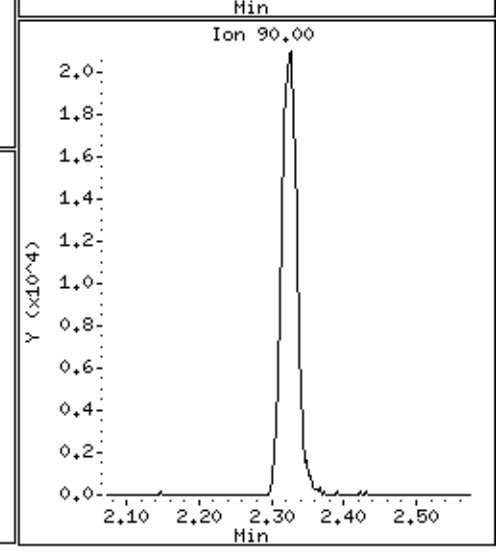












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

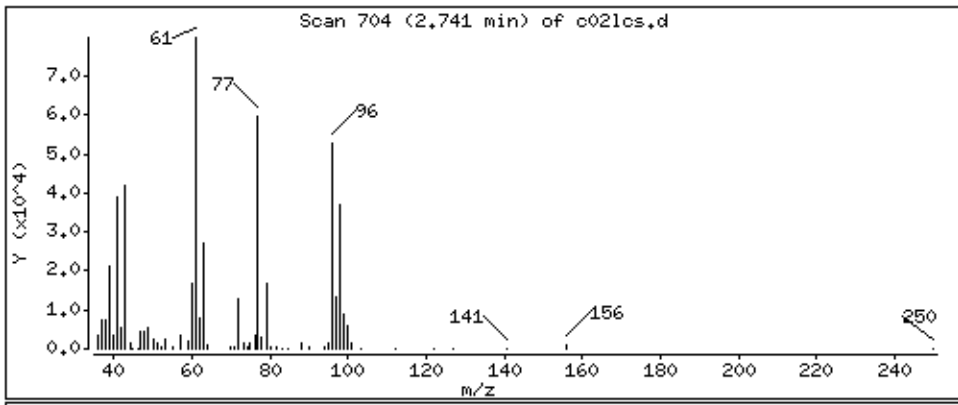
Operator: dae

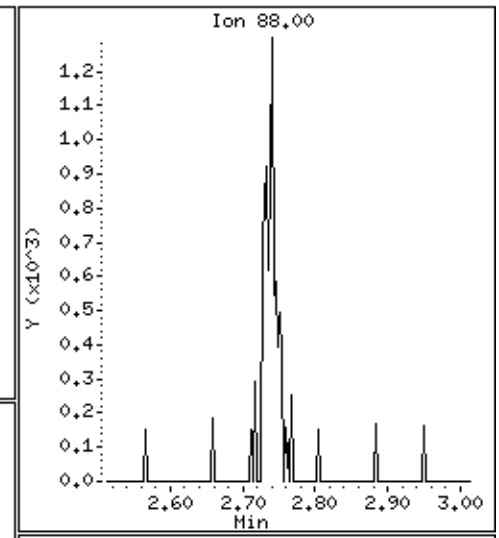
Column phase: DB-624

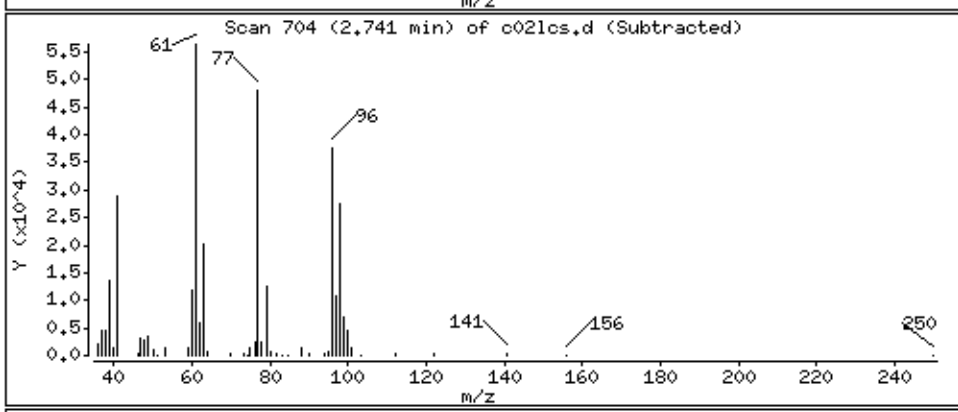
Column diameter: 0.18

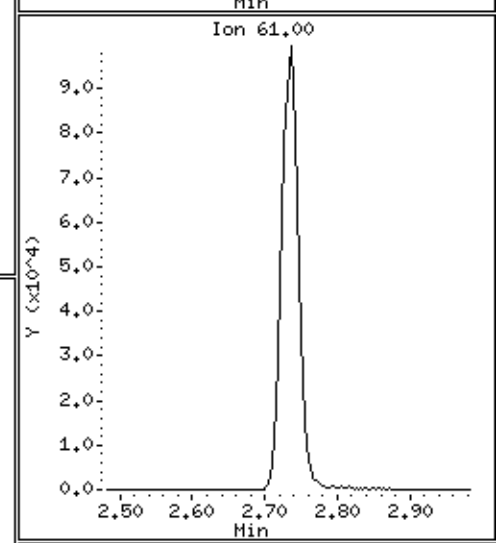
27 Ethyl acetate

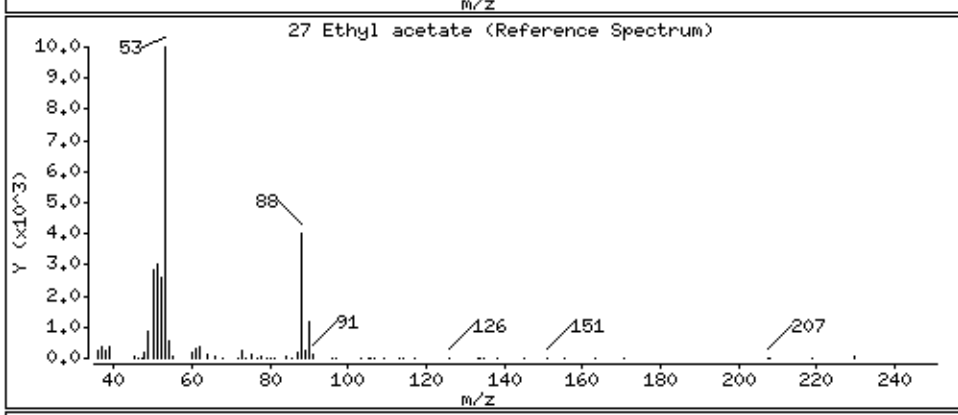
Concentration: 10.8 ppb

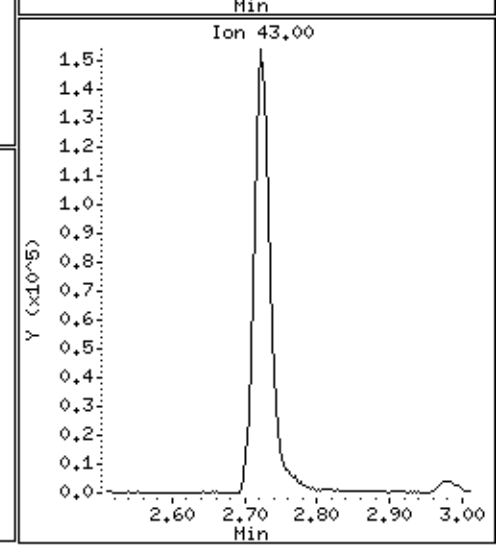


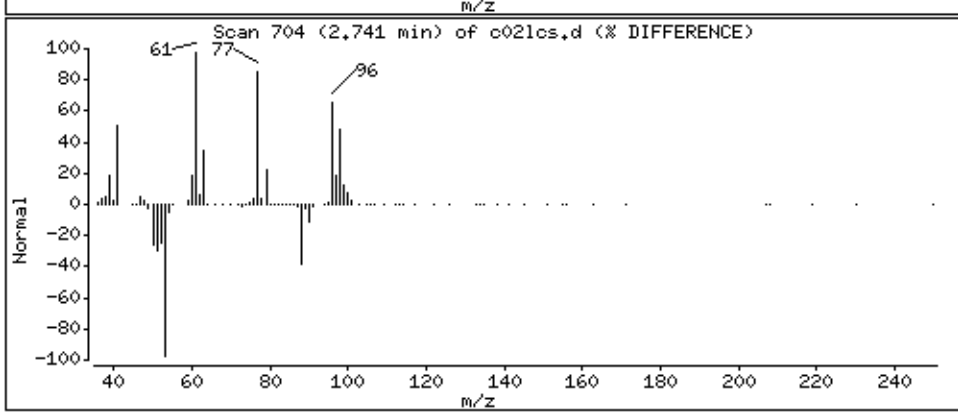












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

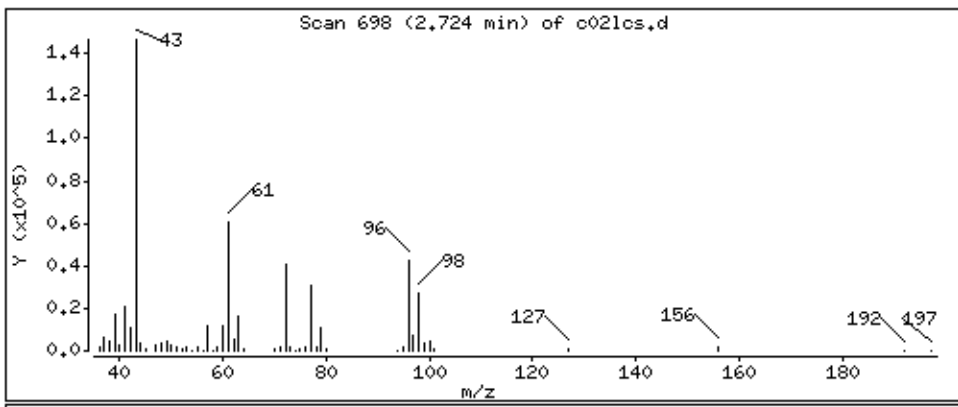
Operator: dae

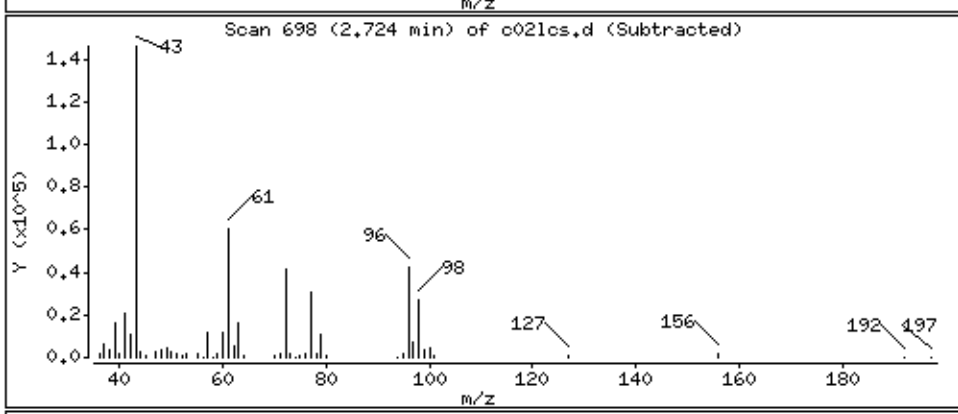
Column phase: DB-624

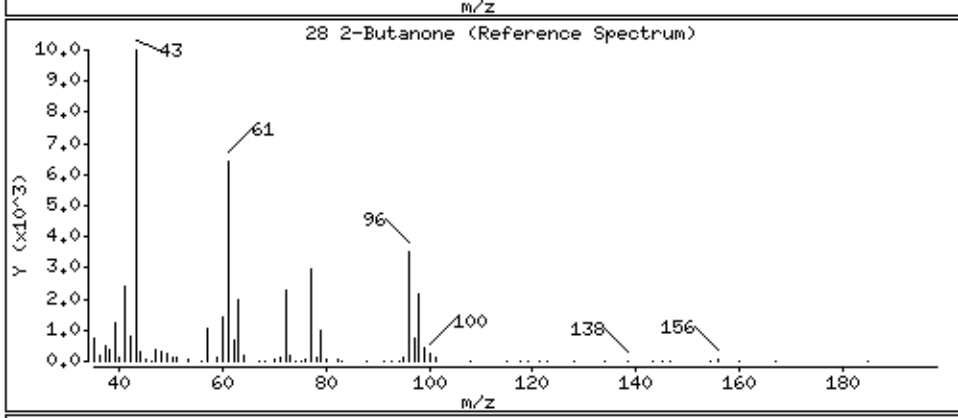
Column diameter: 0.18

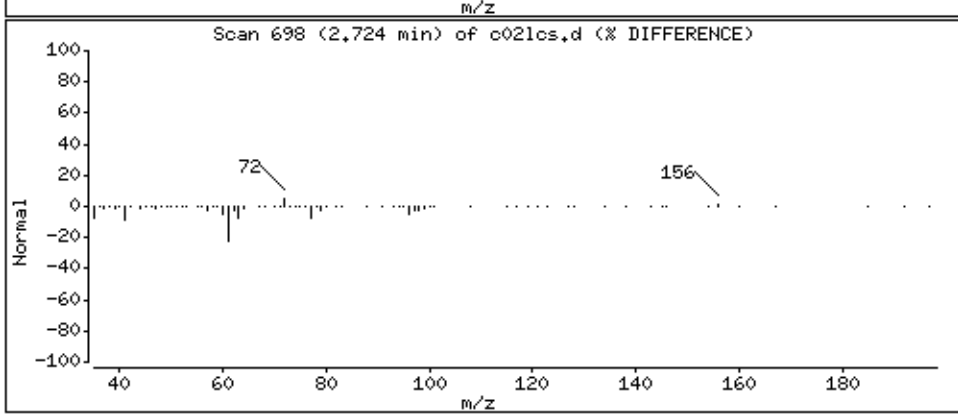
28 2-Butanone

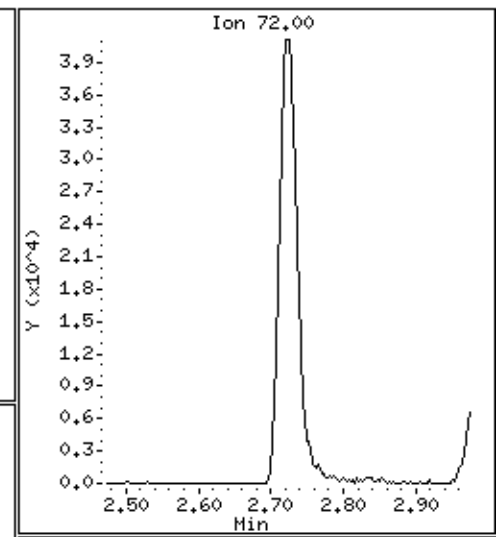
Concentration: 227 ppb

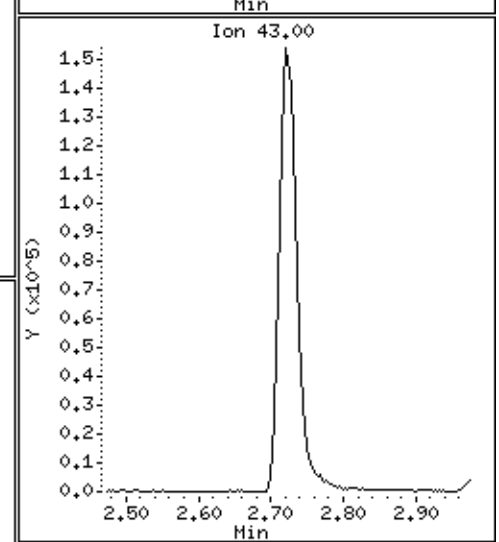


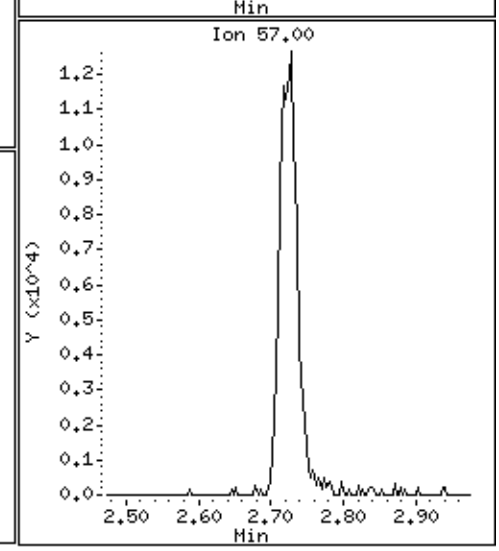












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

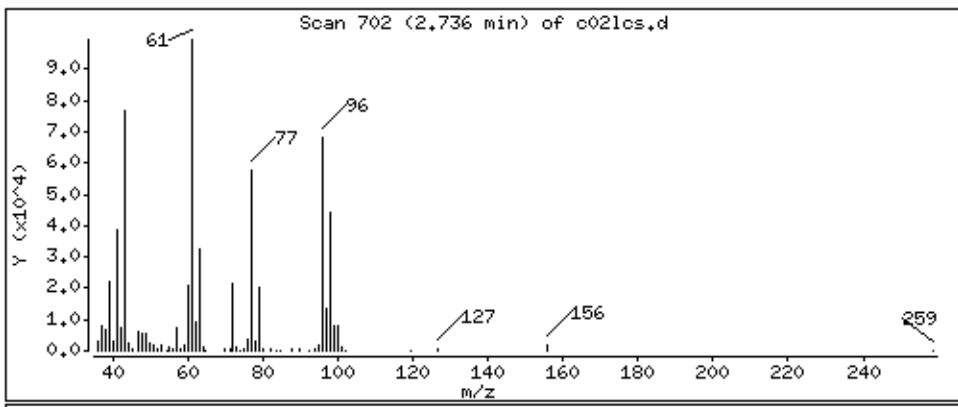
Operator: dae

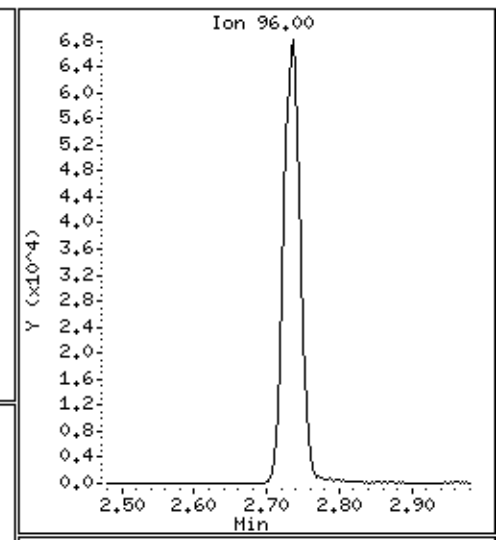
Column phase: DB-624

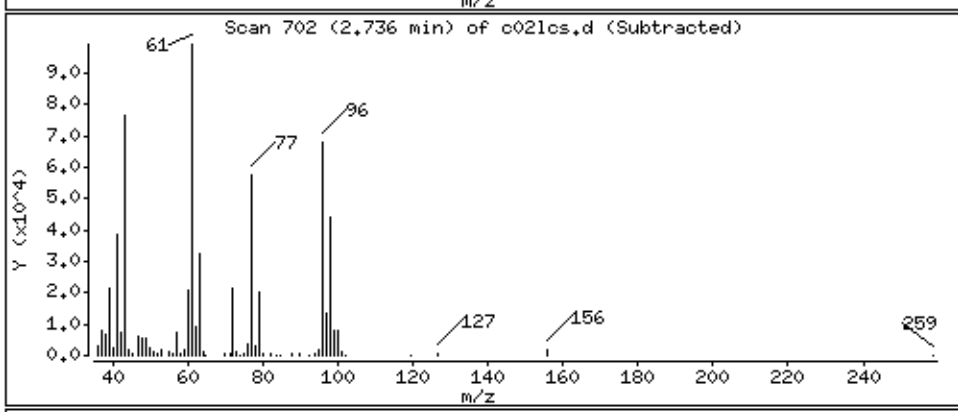
Column diameter: 0.18

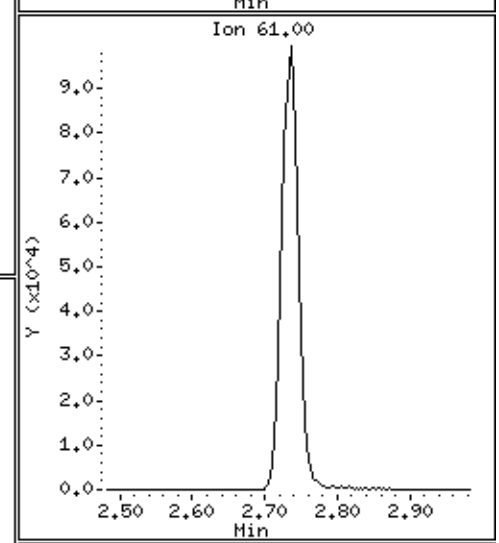
29 1,2-Dichloroethene (cis)

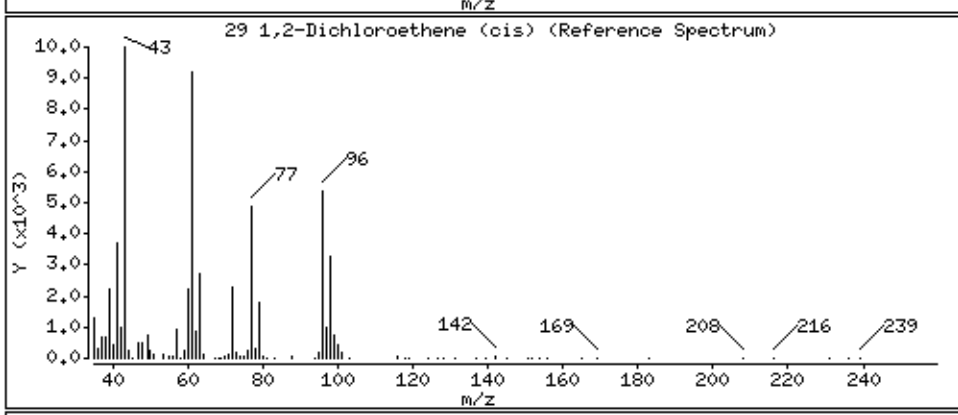
Concentration: 49.3 ppb

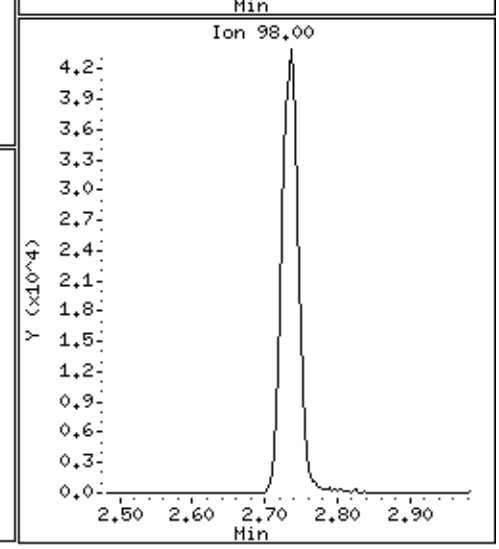


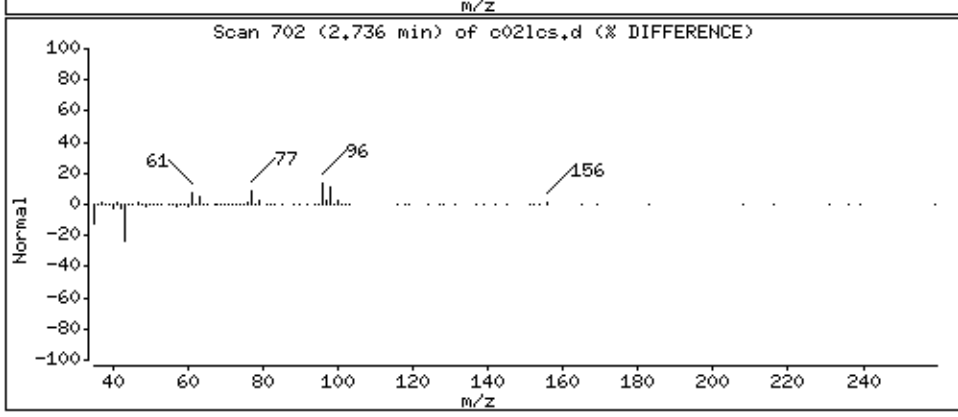












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

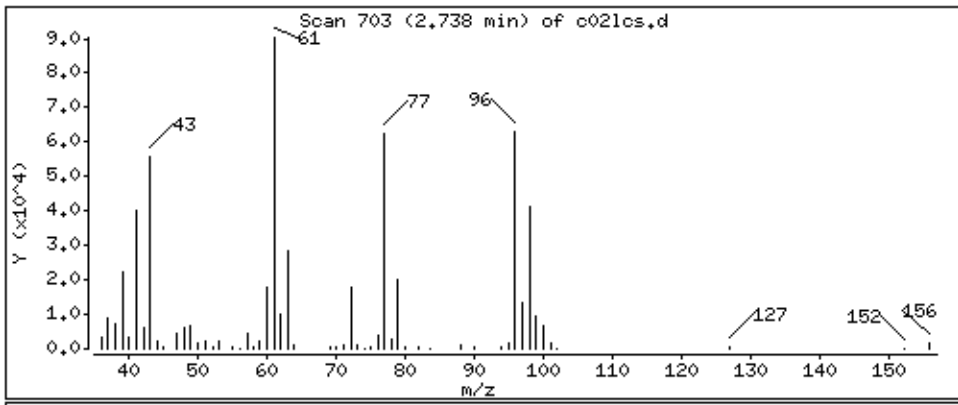
Operator: dae

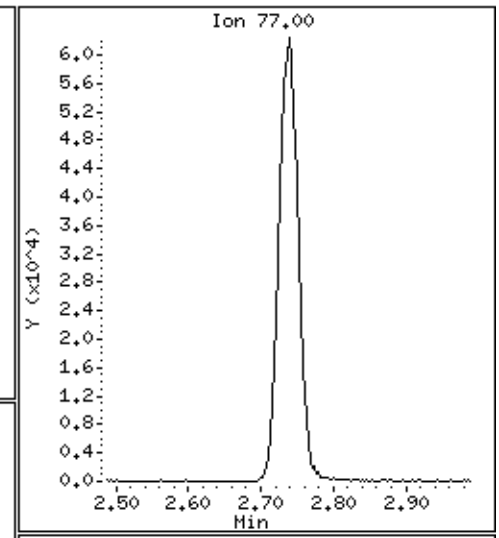
Column phase: DB-624

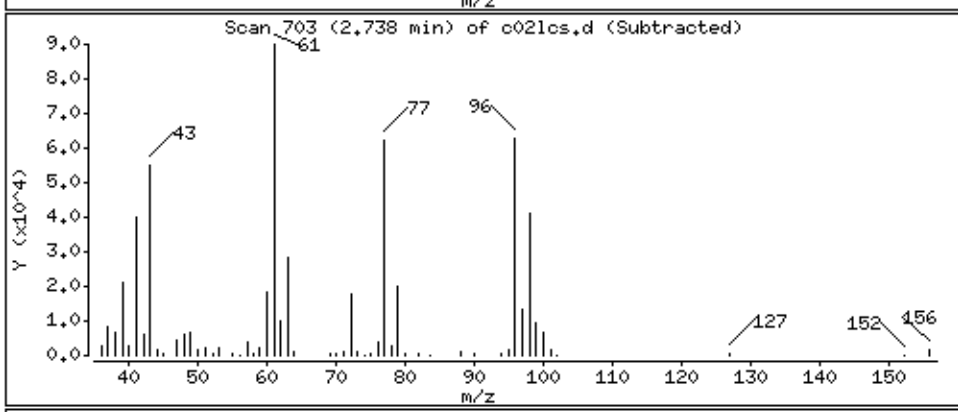
Column diameter: 0.18

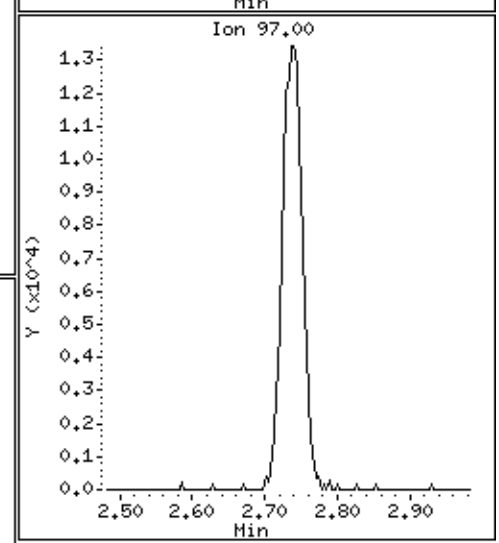
30 2,2-Dichloropropane

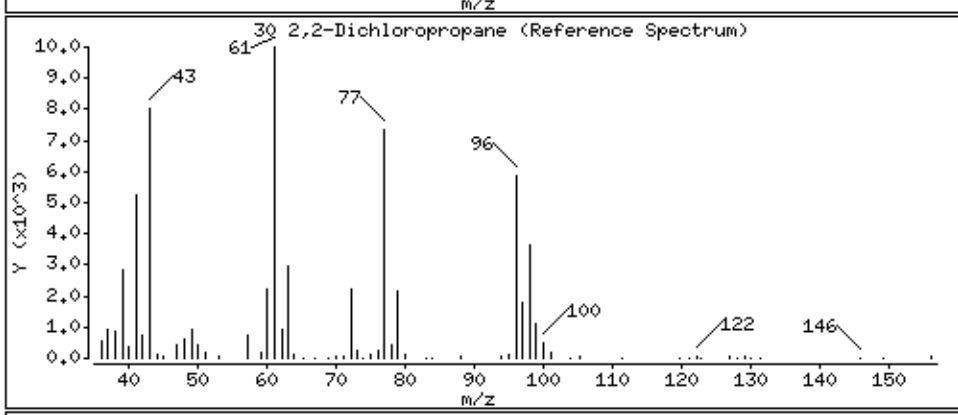
Concentration: 36.7 ppb

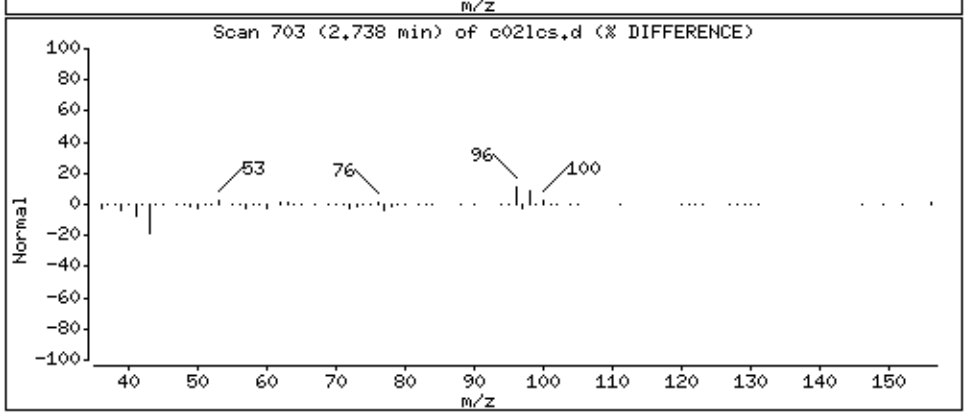












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

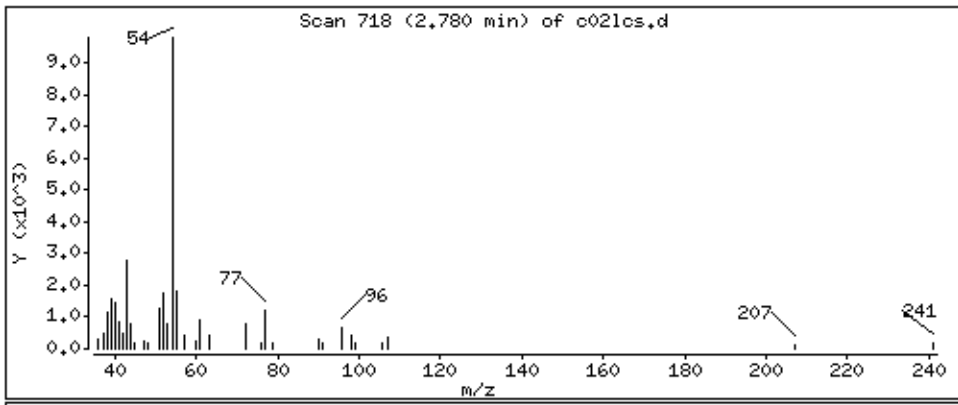
Operator: dae

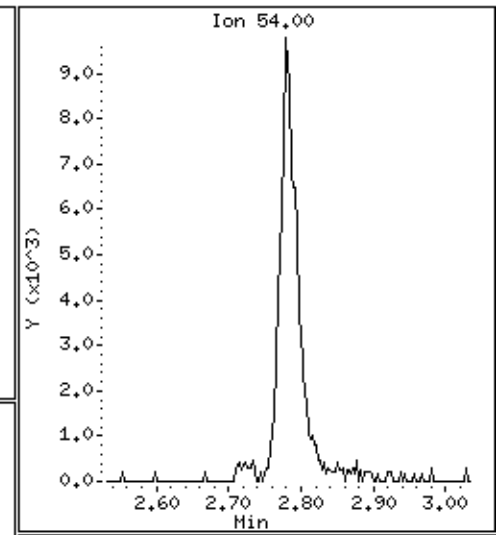
Column phase: DB-624

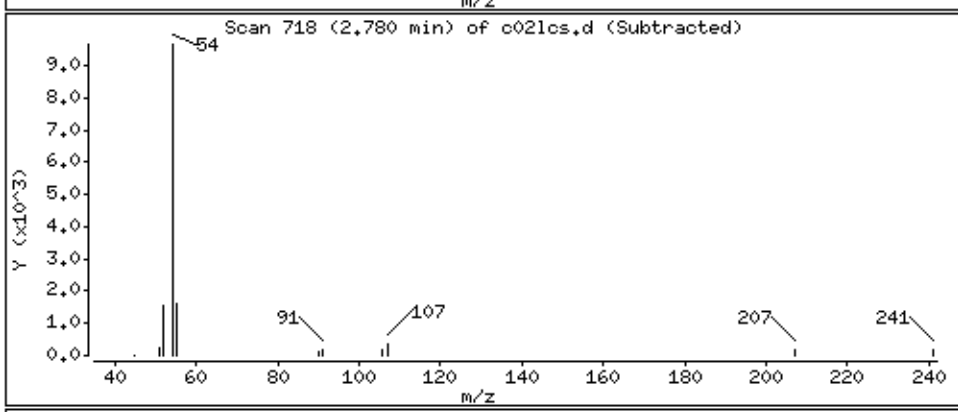
Column diameter: 0.18

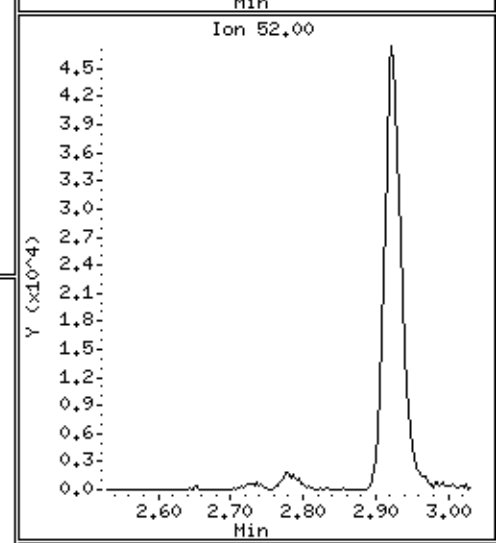
31 Propionitrile

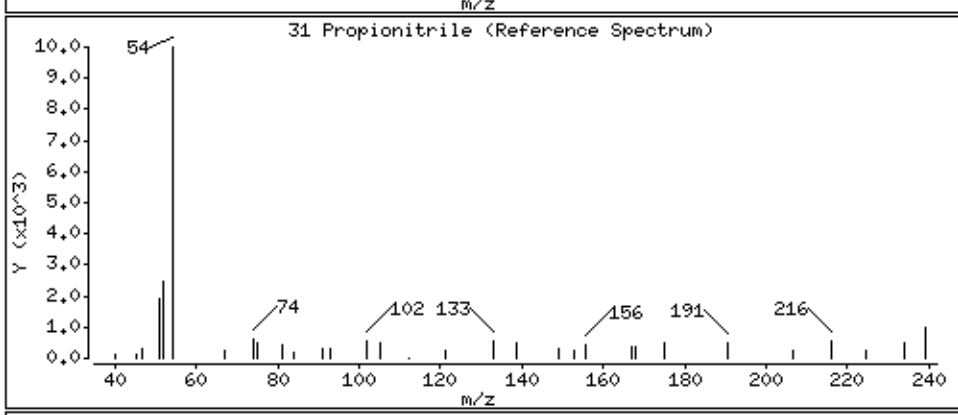
Concentration: 45.0 ppb

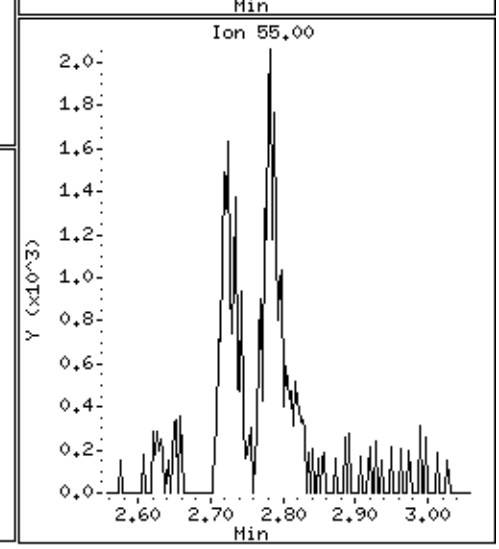


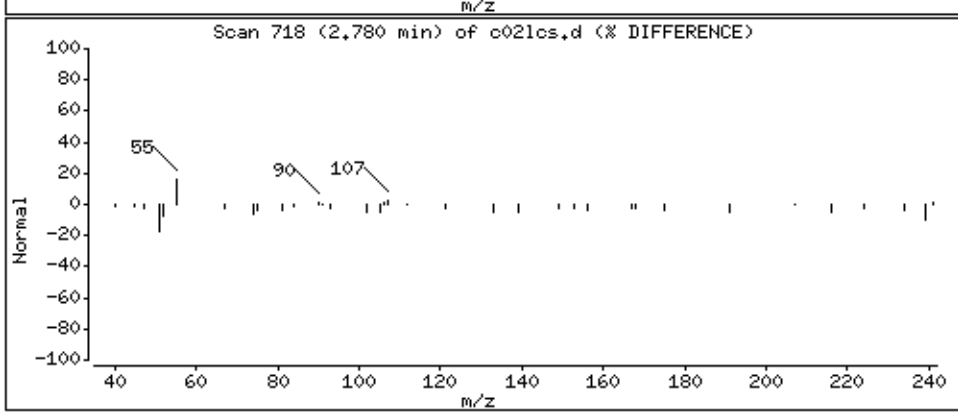












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

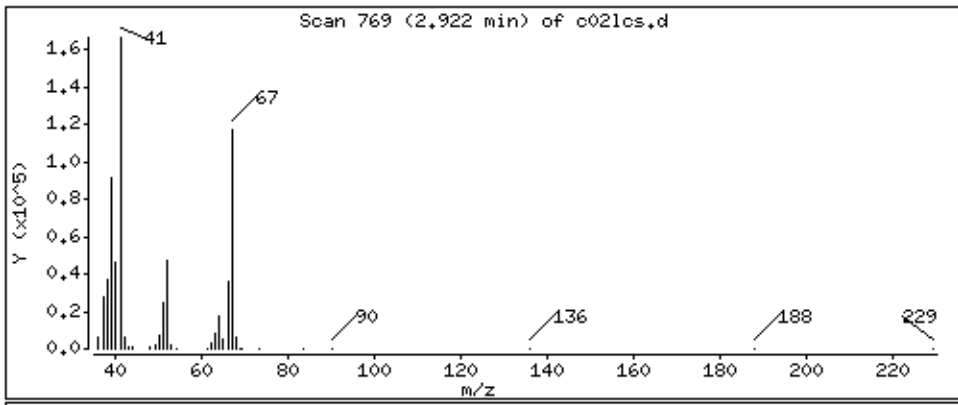
Operator: dae

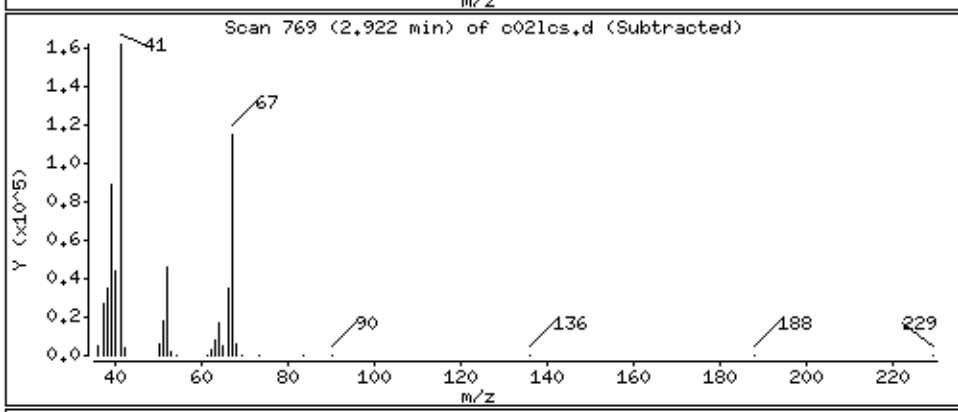
Column phase: DB-624

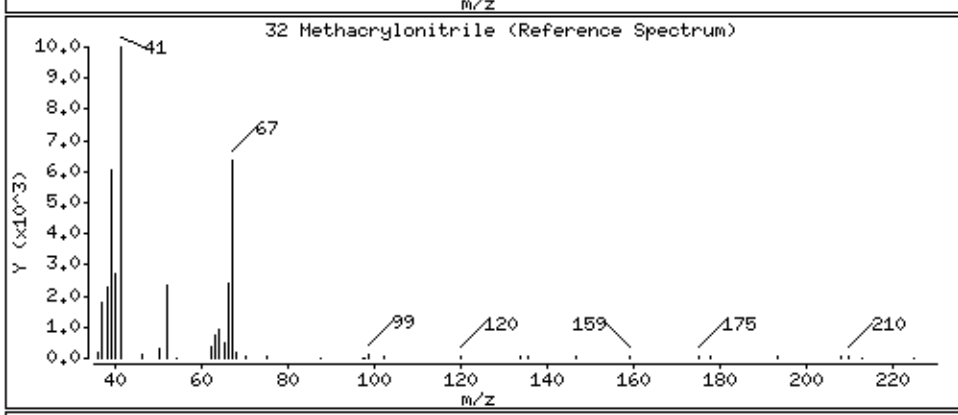
Column diameter: 0.18

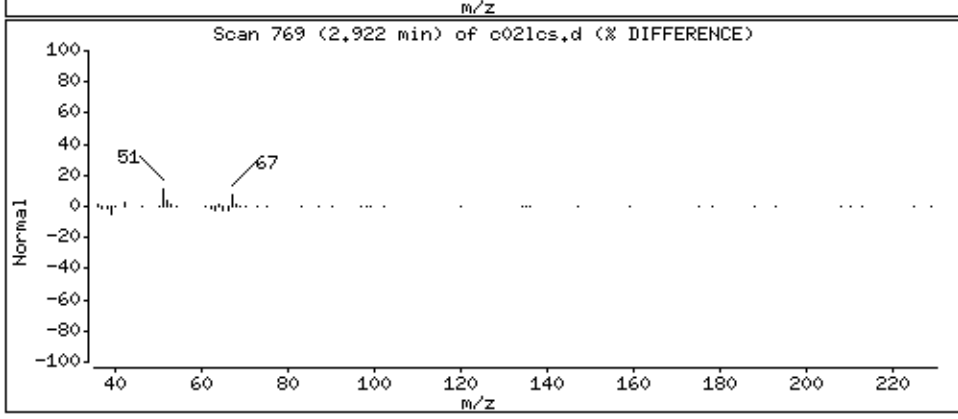
32 Methacrylonitrile

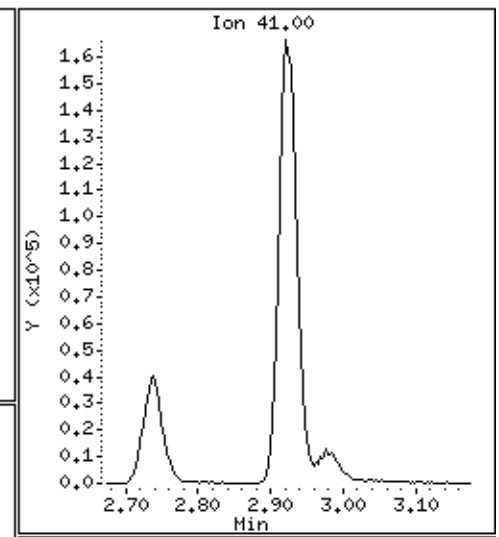
Concentration: 196 ppb

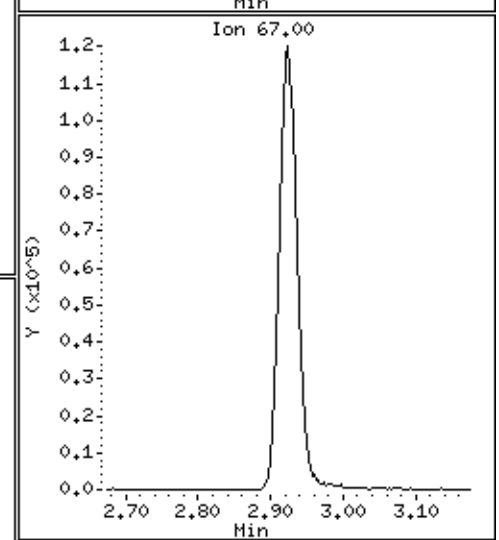


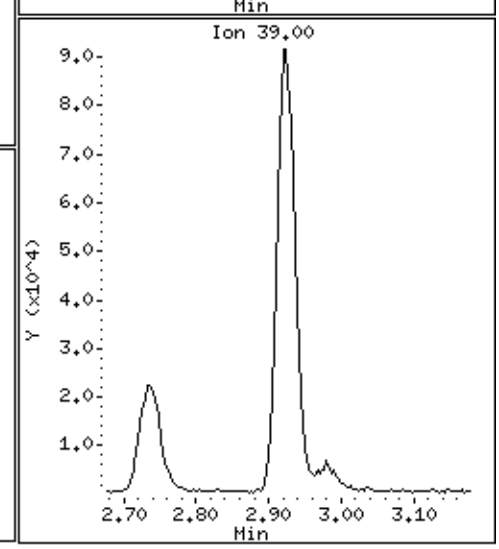












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

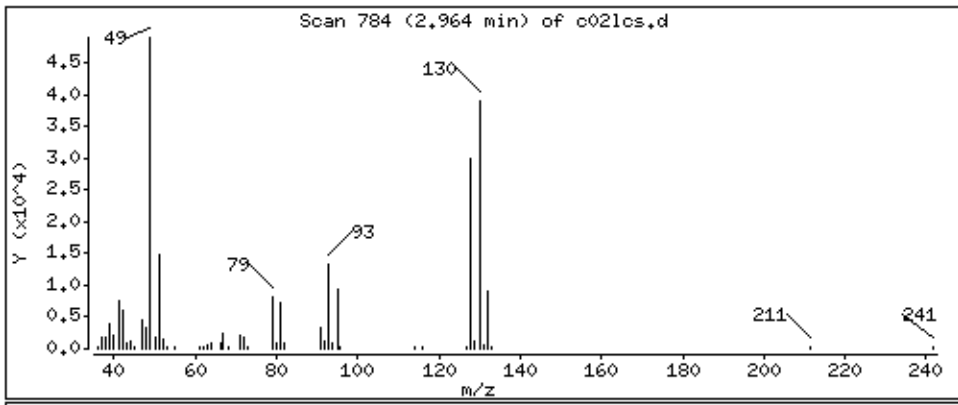
Operator: dae

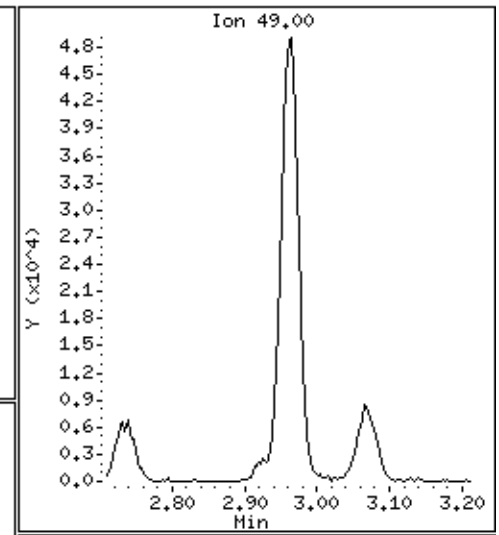
Column phase: DB-624

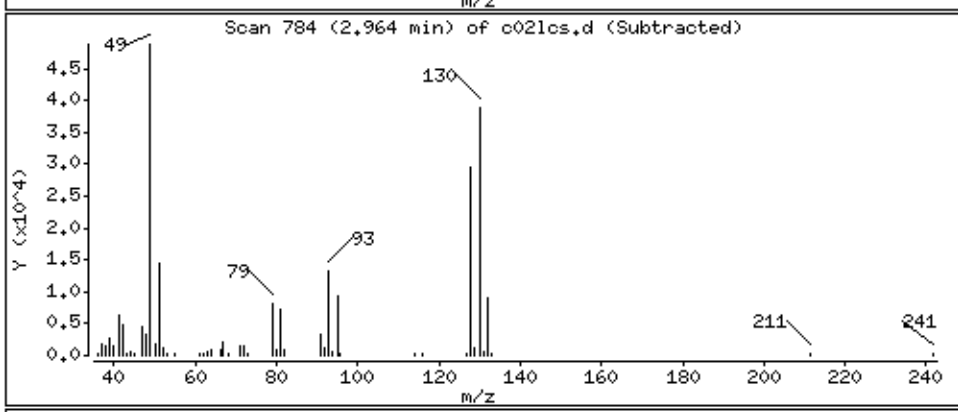
Column diameter: 0.18

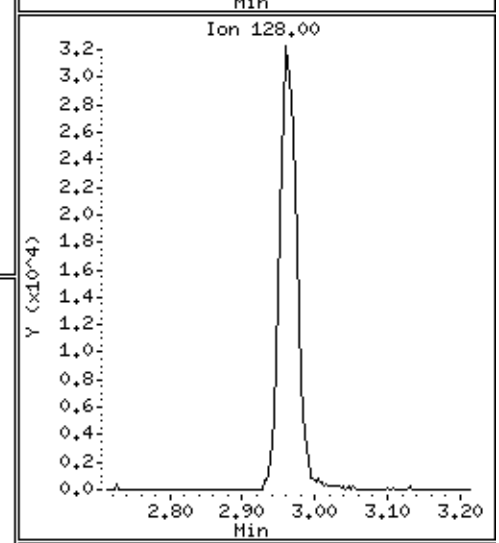
33 Bromochloromethane

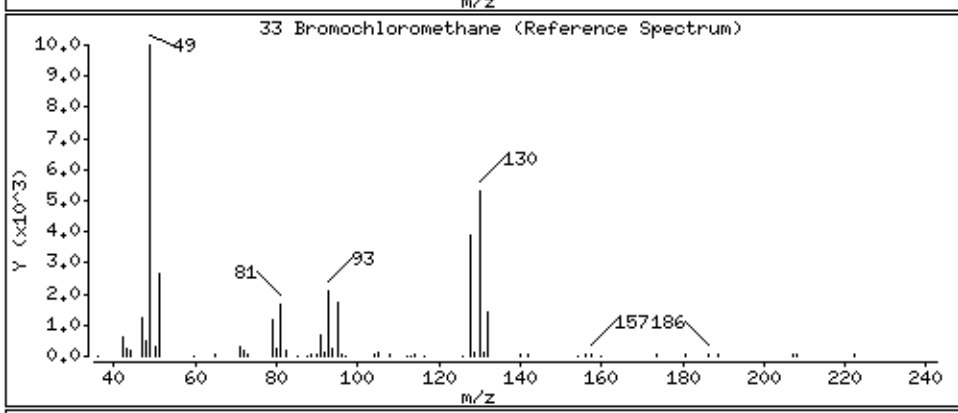
Concentration: 50.0 ppb

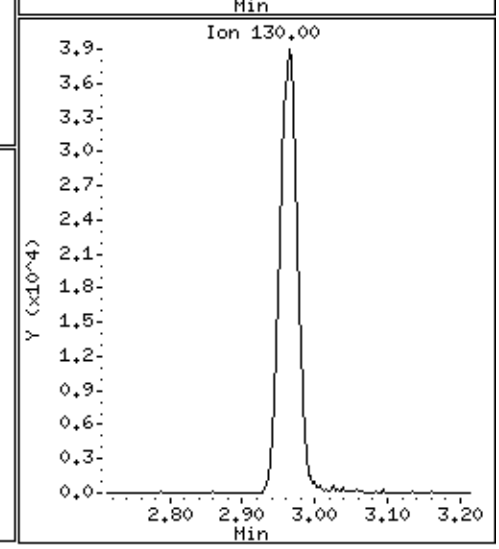


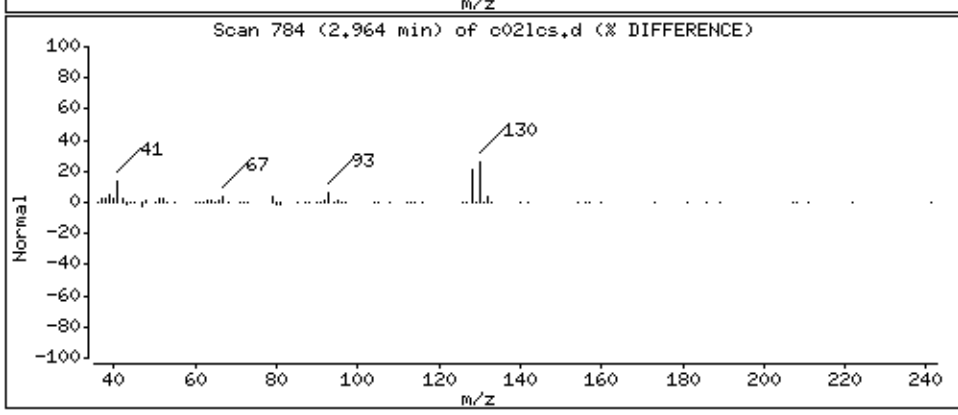












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

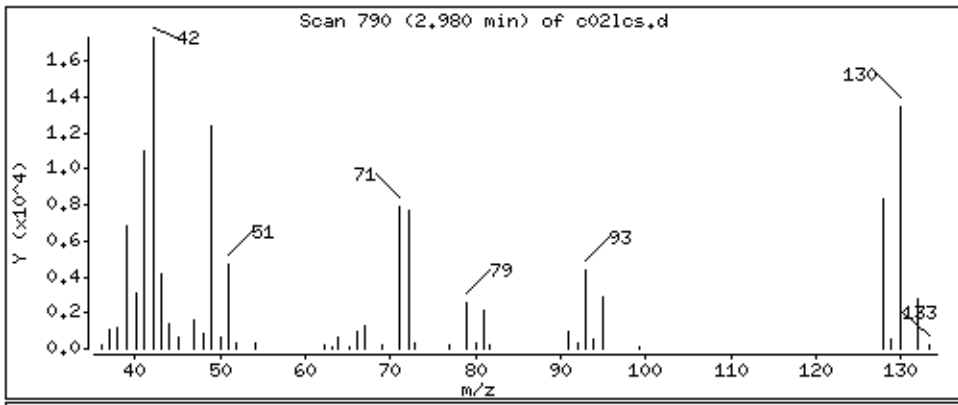
Operator: dae

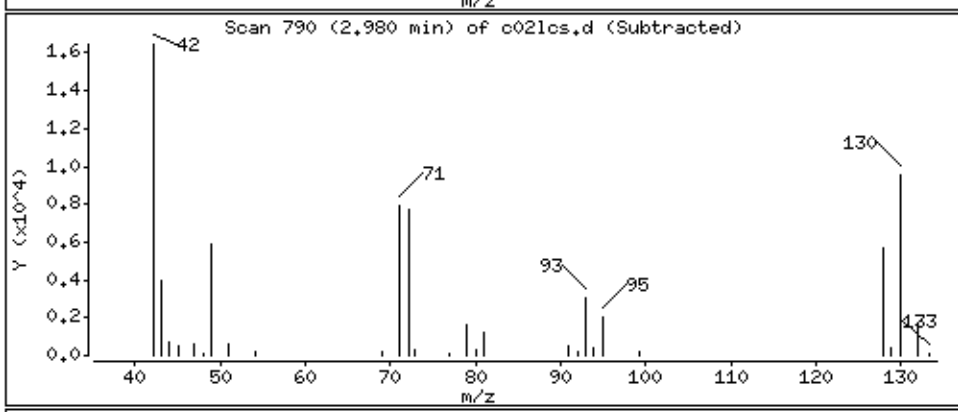
Column phase: DB-624

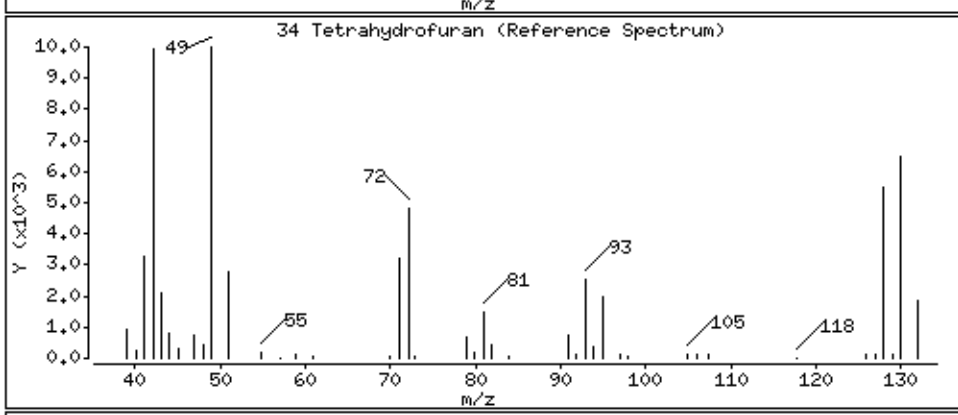
Column diameter: 0.18

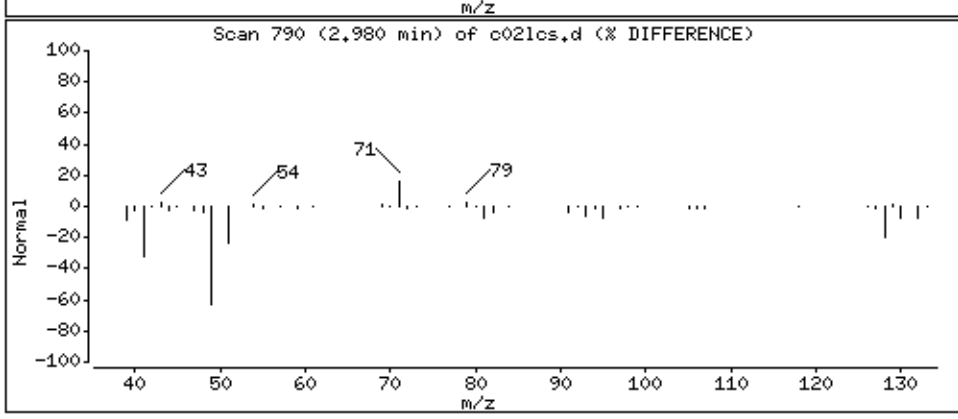
34 Tetrahydrofuran

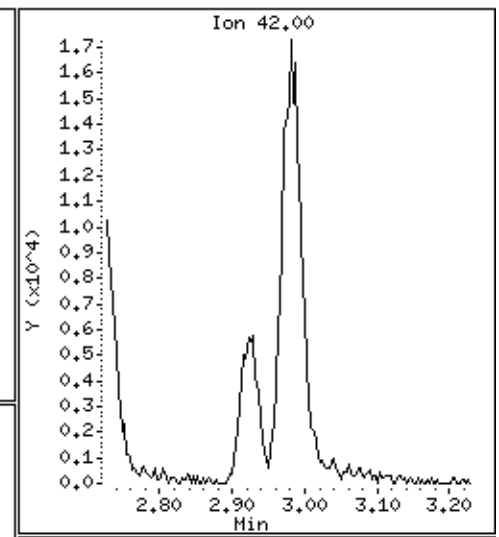
Concentration: 51.7 ppb

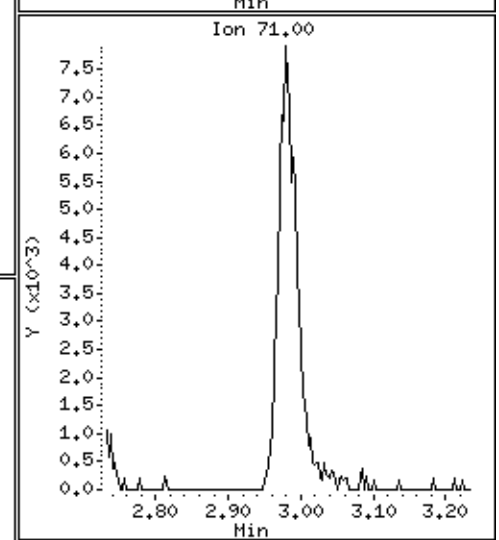


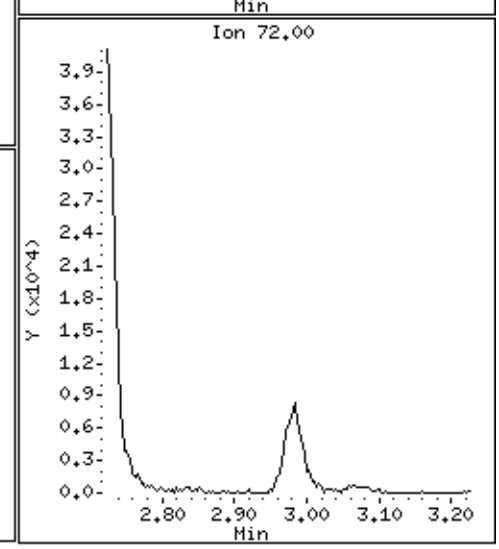












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

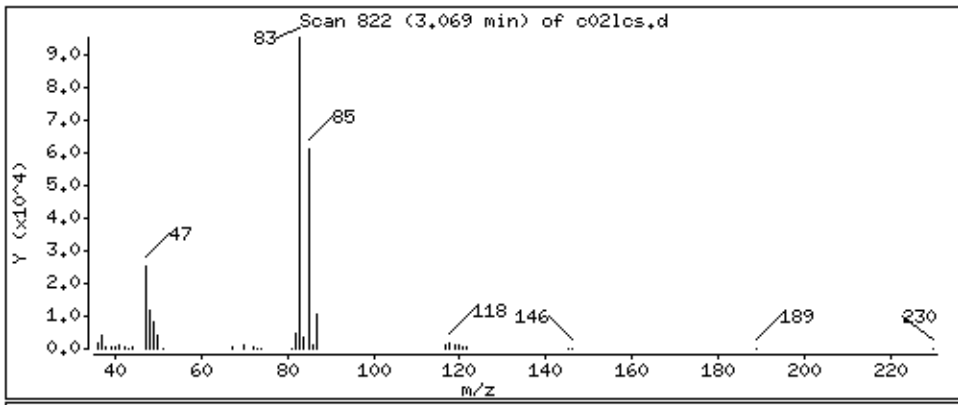
Operator: dae

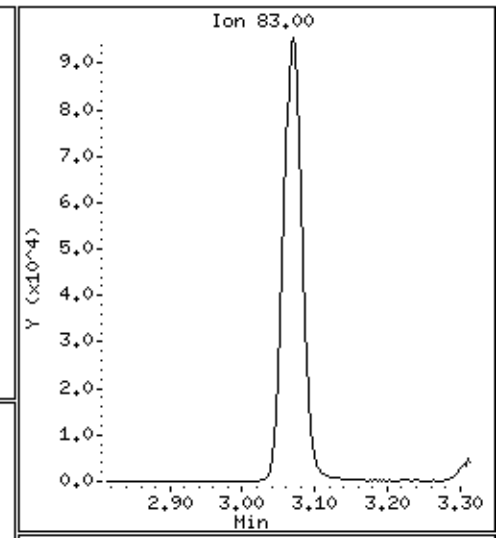
Column phase: DB-624

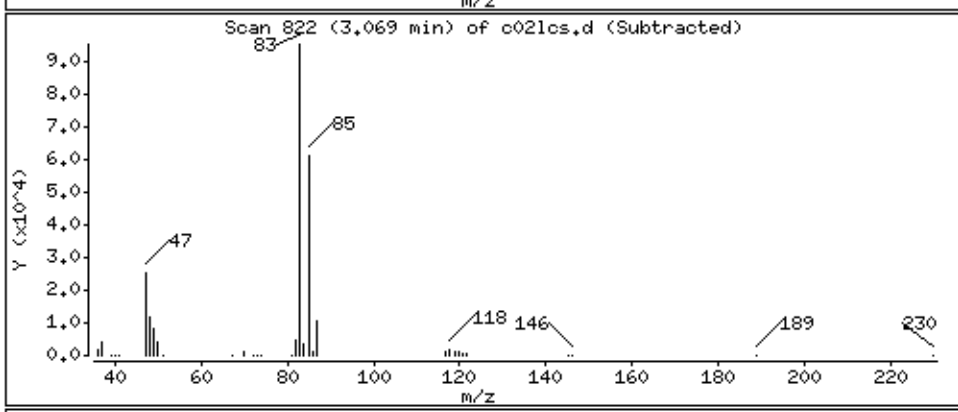
Column diameter: 0.18

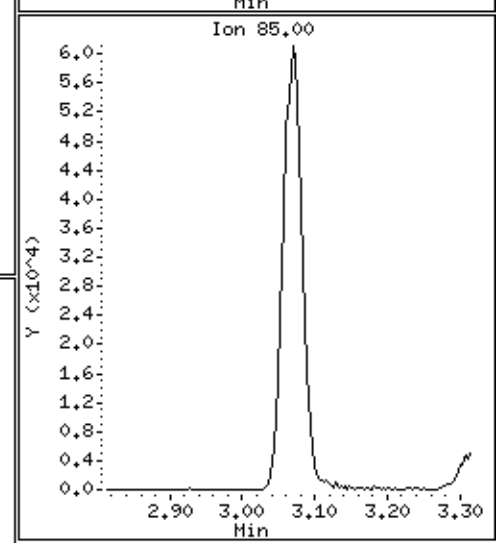
35 Chloroform

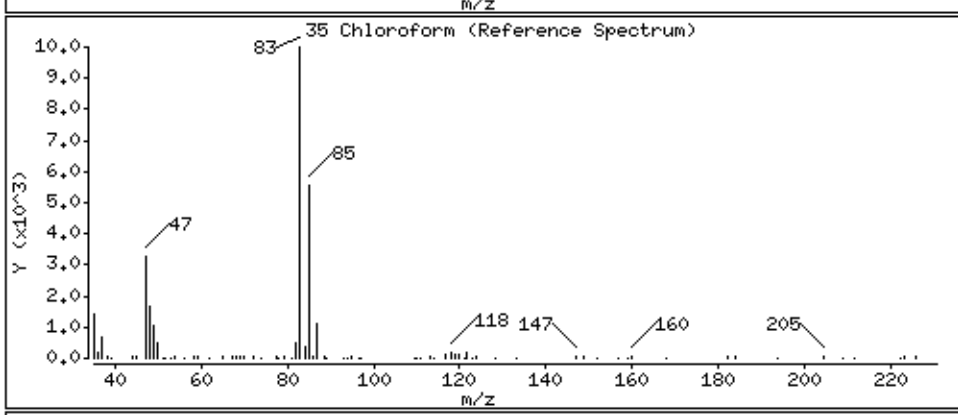
Concentration: 50.6 ppb

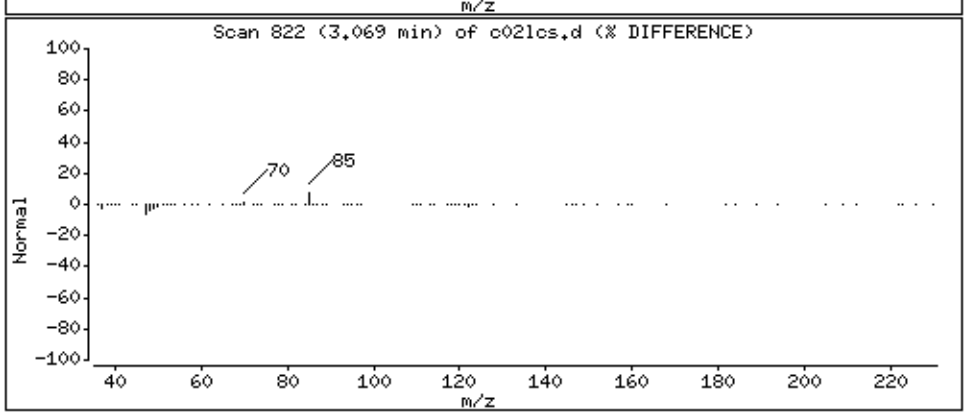












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

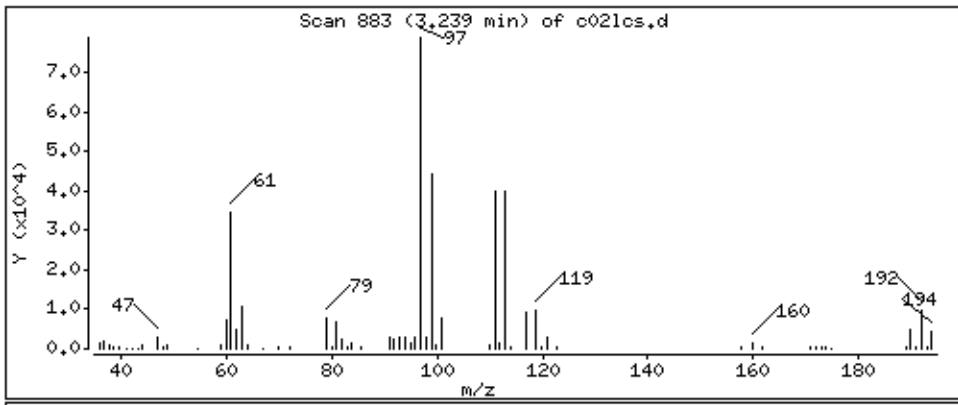
Operator: dae

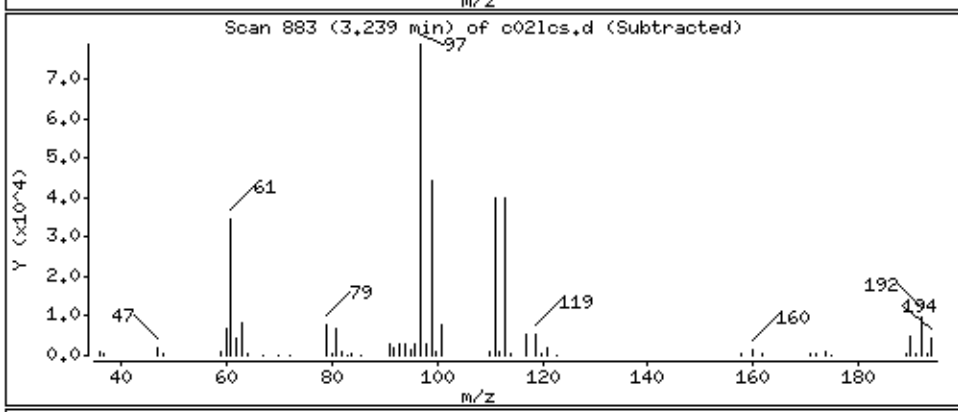
Column phase: DB-624

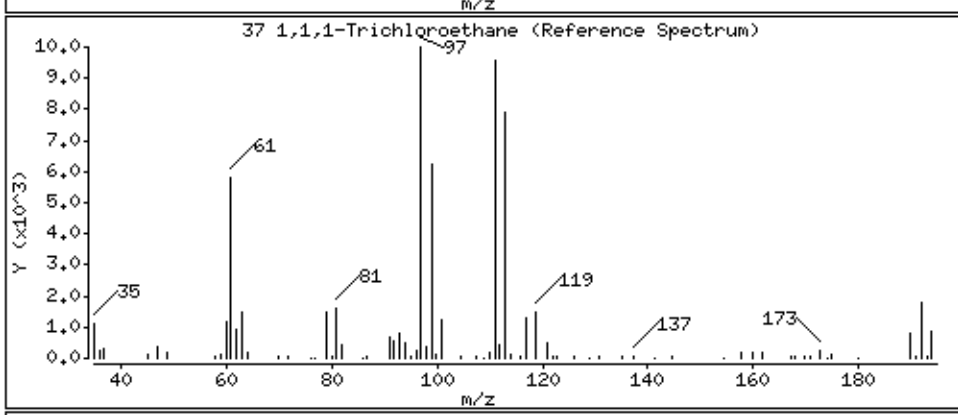
Column diameter: 0.18

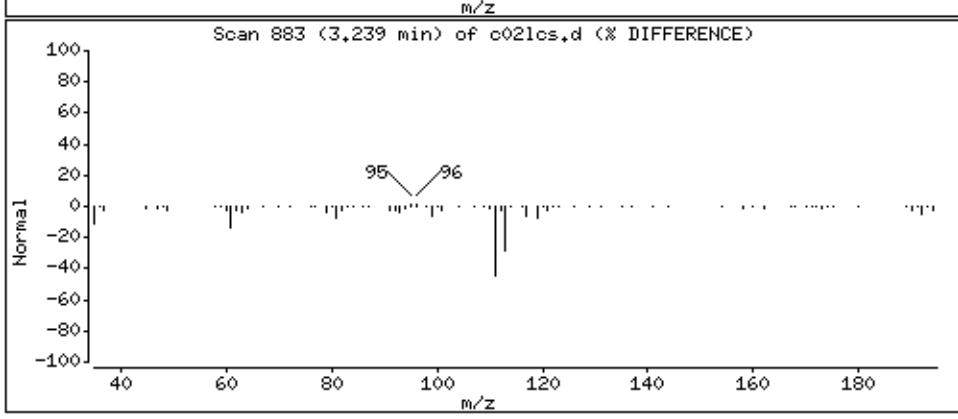
37 1,1,1-Trichloroethane

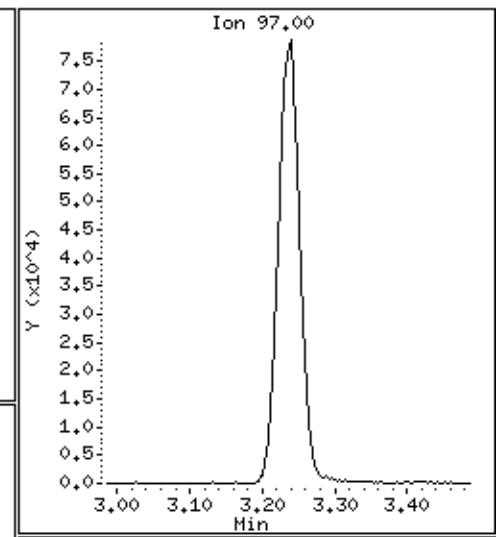
Concentration: 47.5 ppb

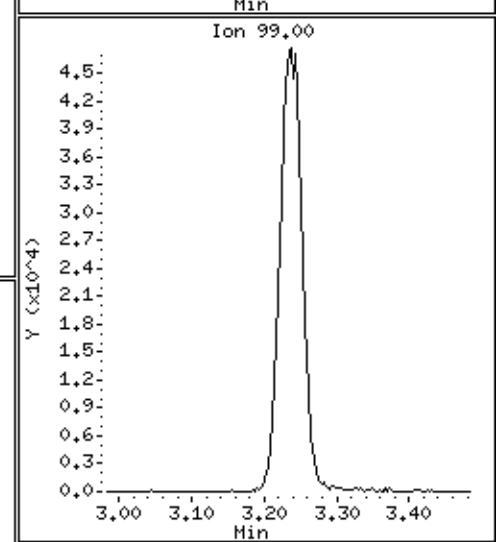


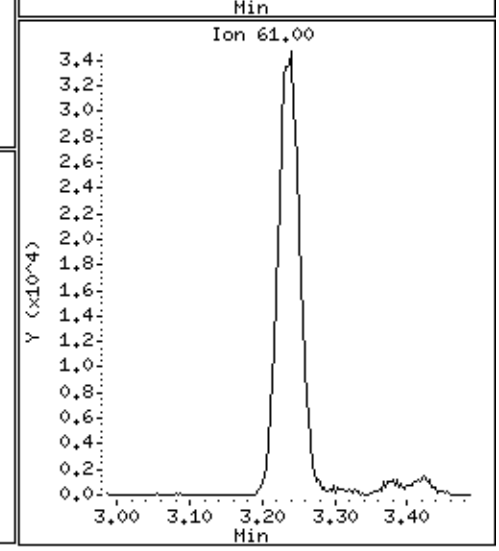












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

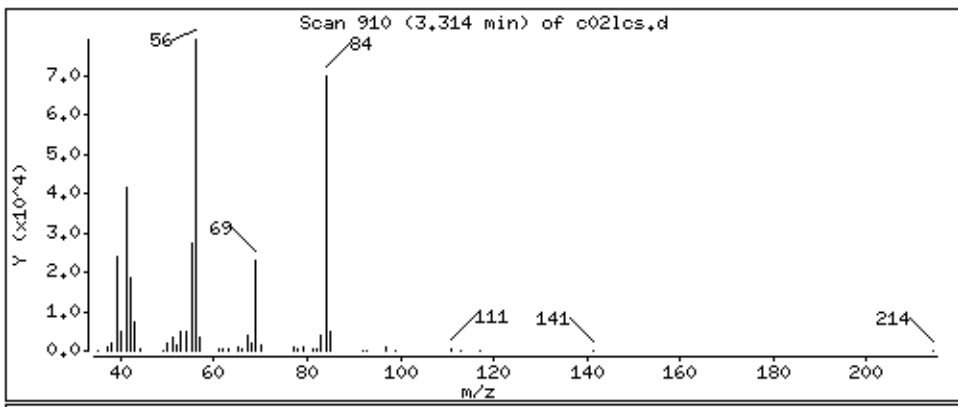
Operator: dae

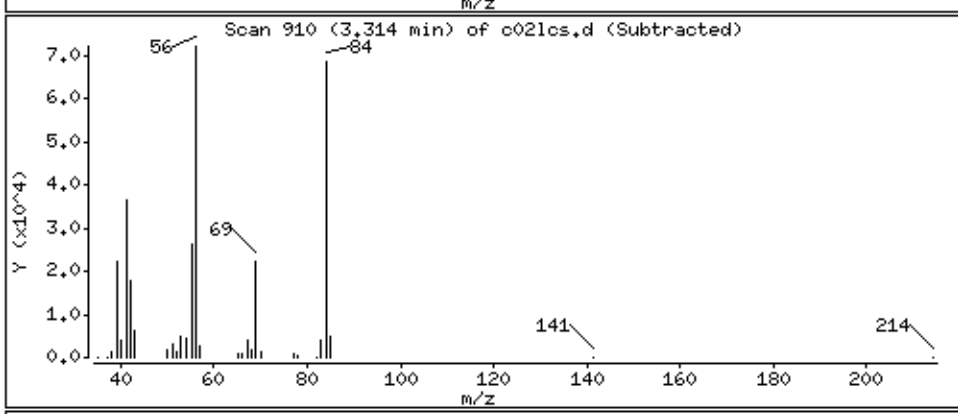
Column phase: DB-624

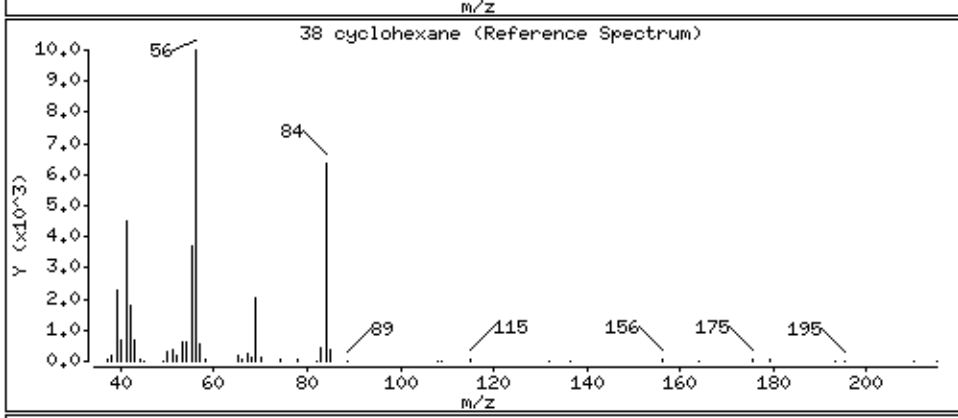
Column diameter: 0.18

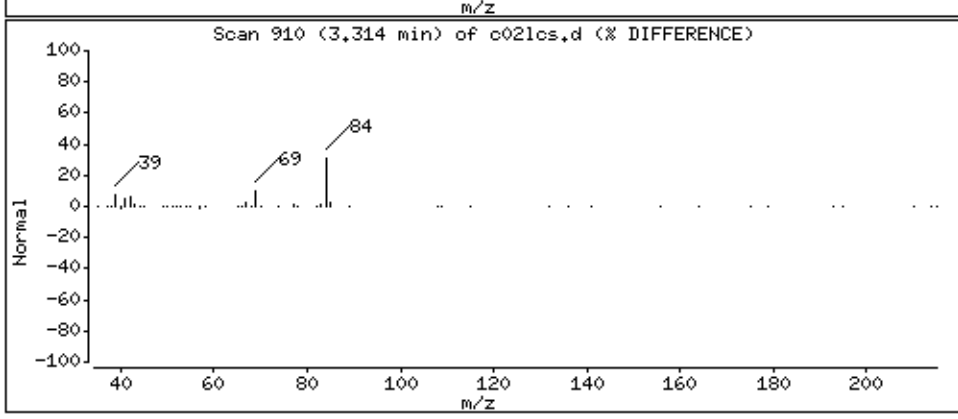
38 cyclohexane

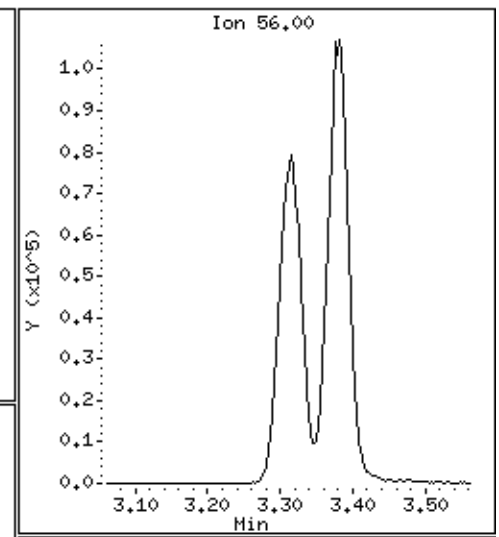
Concentration: 48.4 ppb

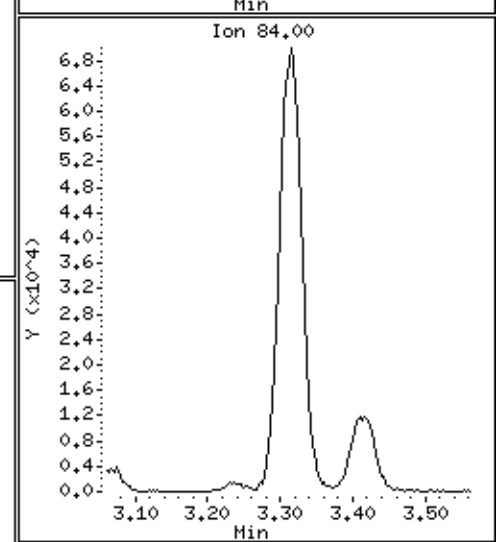


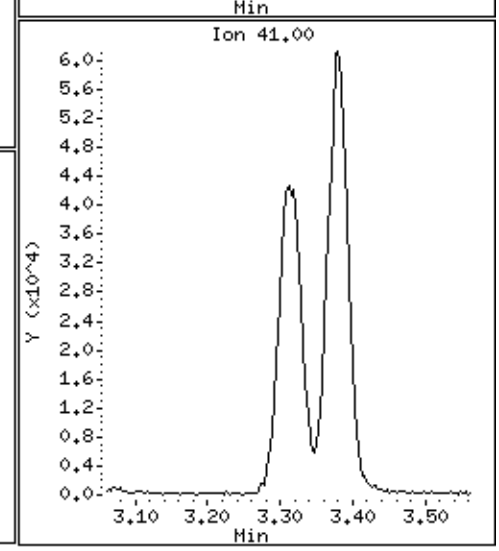












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

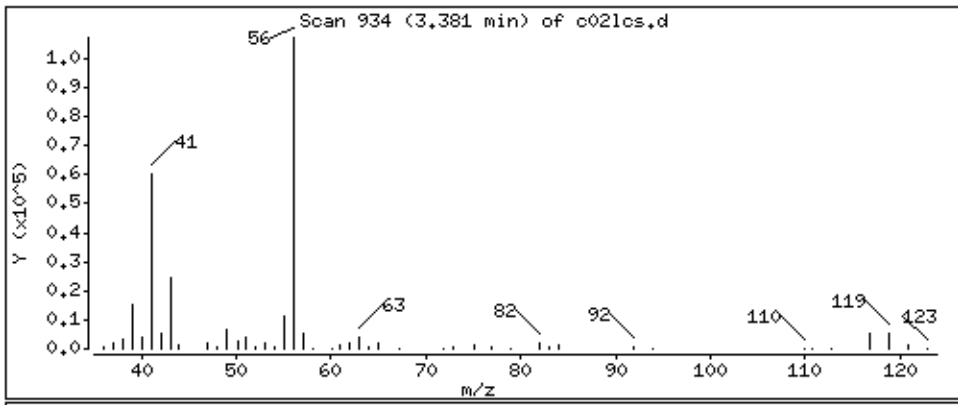
Operator: dae

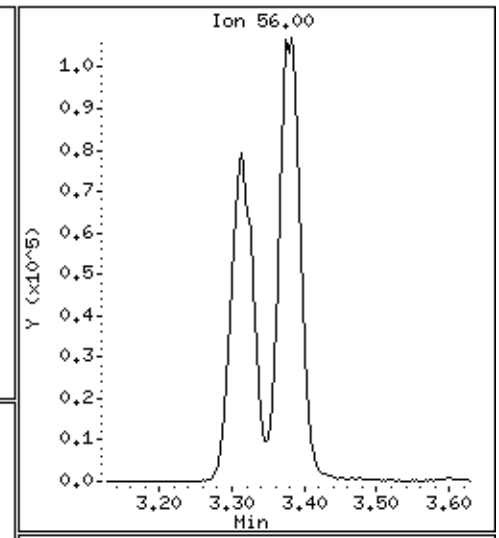
Column phase: DB-624

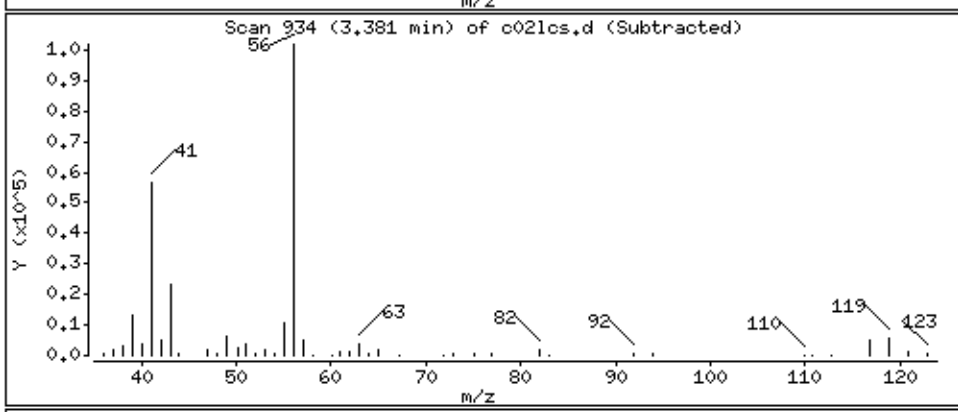
Column diameter: 0.18

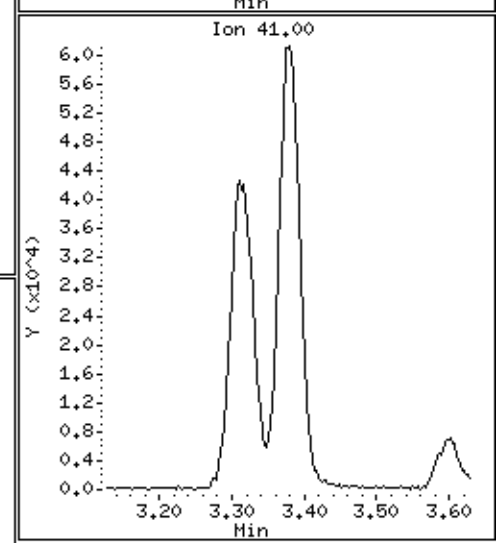
150 n-butyl chloride

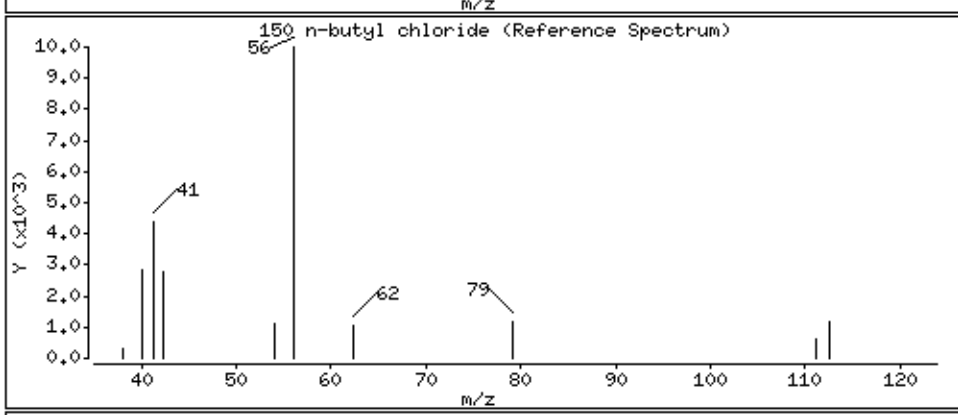
Concentration: 49.2 ppb

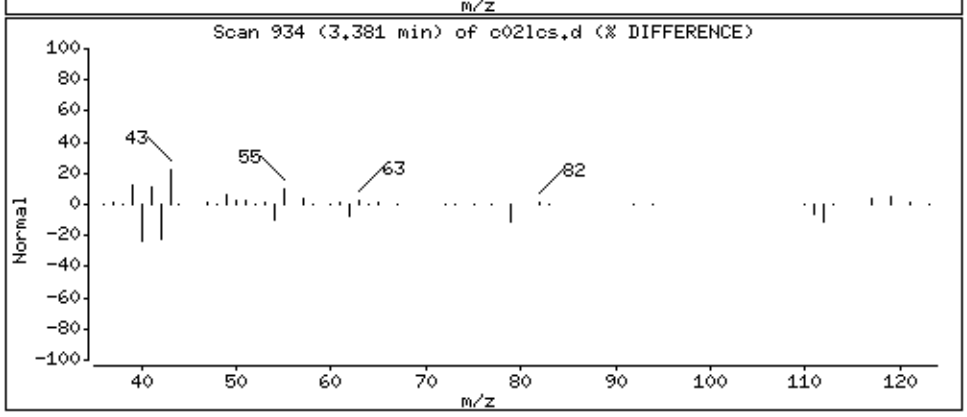












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

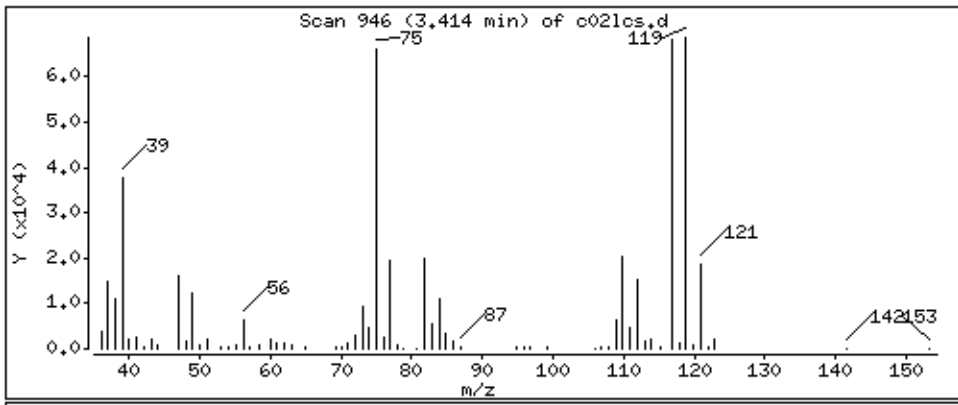
Operator: dae

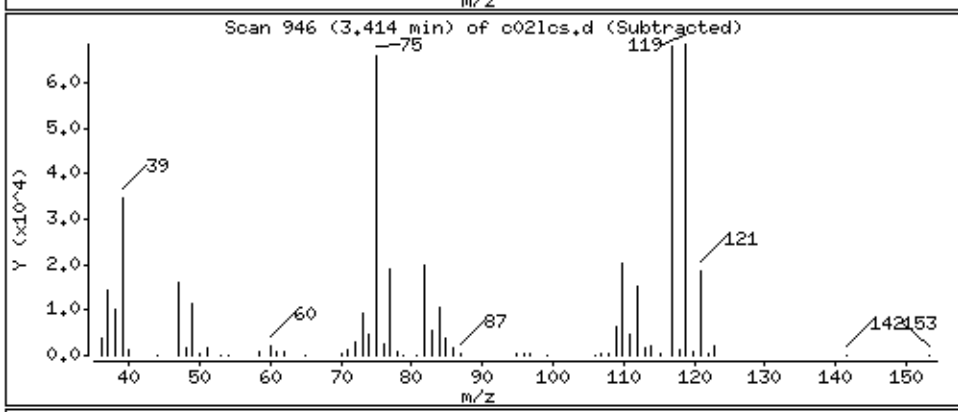
Column phase: DB-624

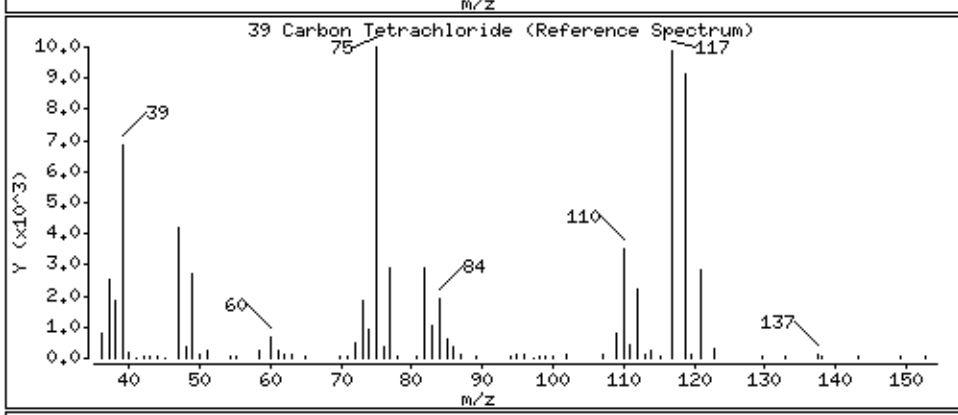
Column diameter: 0.18

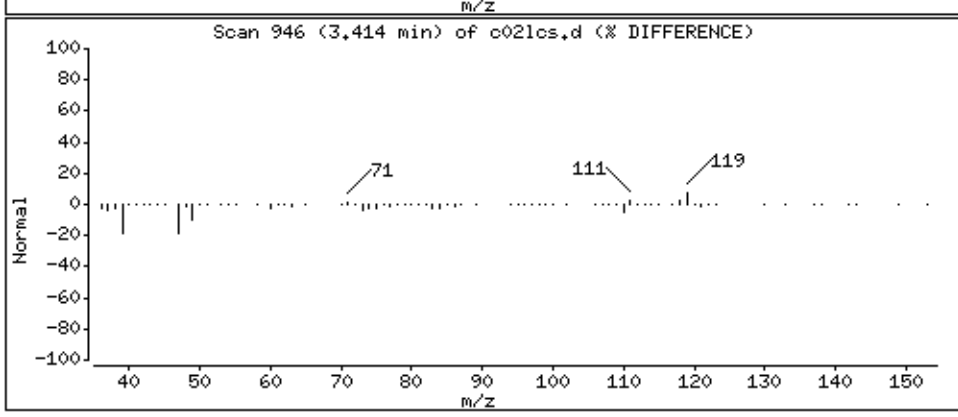
39 Carbon Tetrachloride

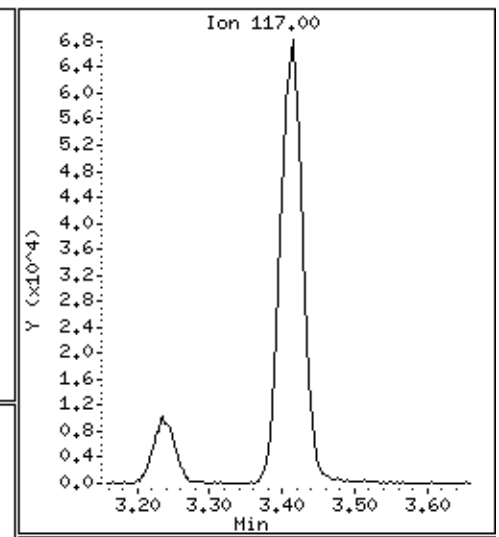
Concentration: 49.0 ppb

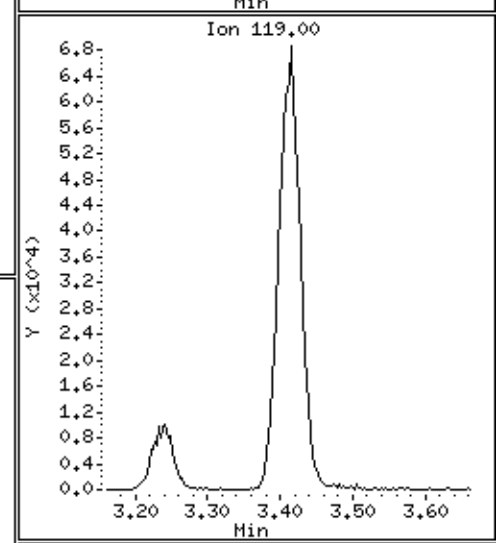


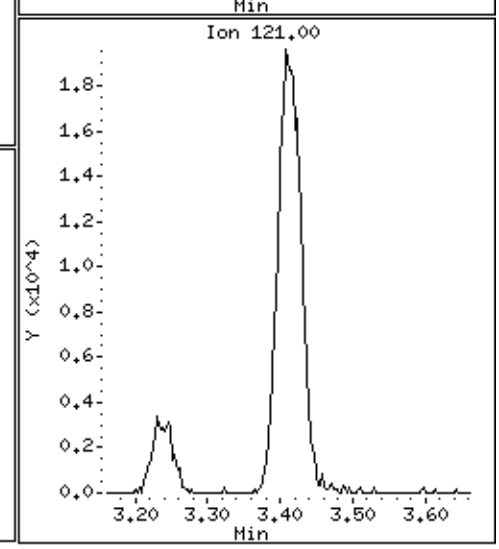












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

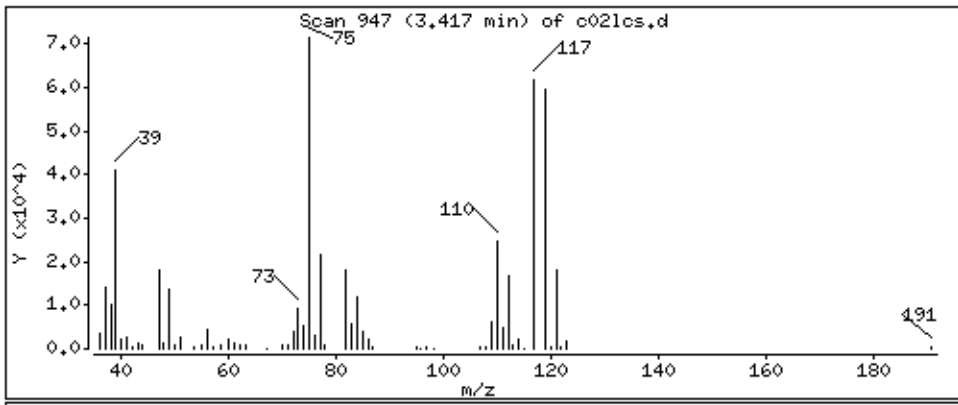
Operator: dae

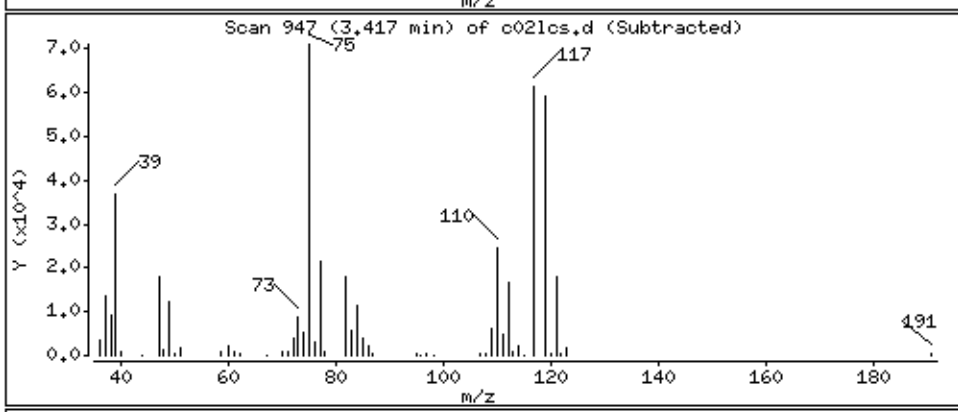
Column phase: DB-624

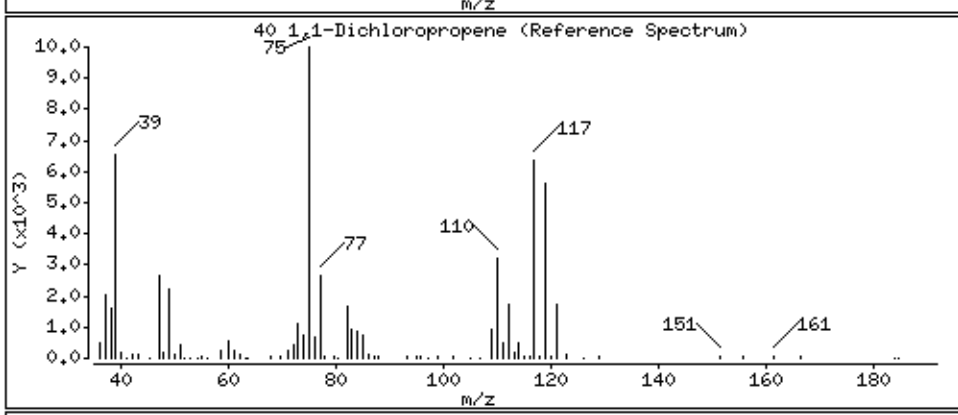
Column diameter: 0.18

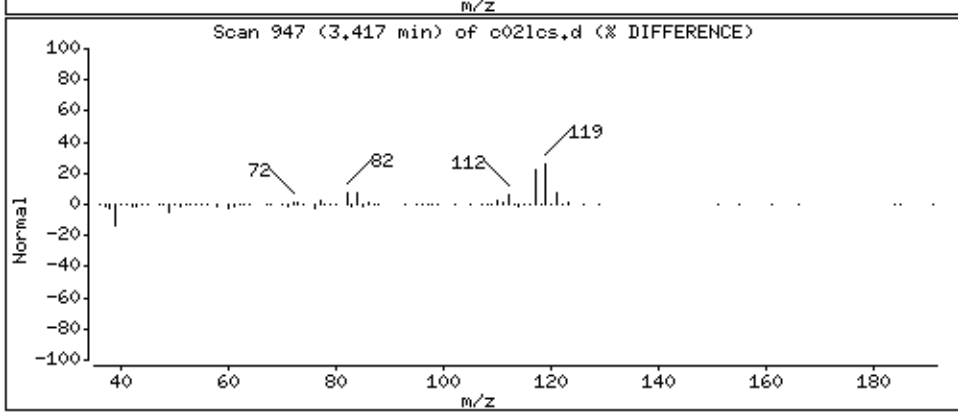
40 1,1-Dichloropropene

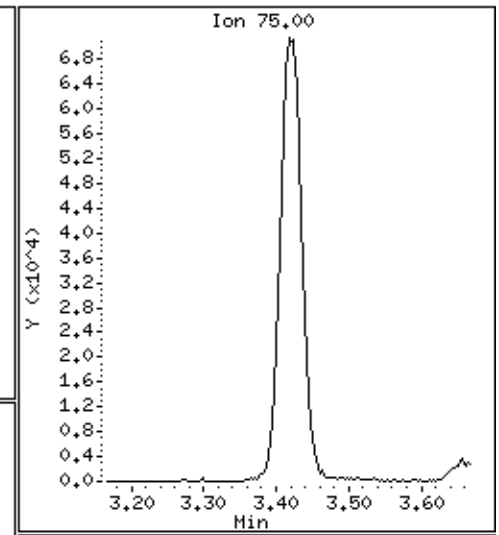
Concentration: 50.2 ppb

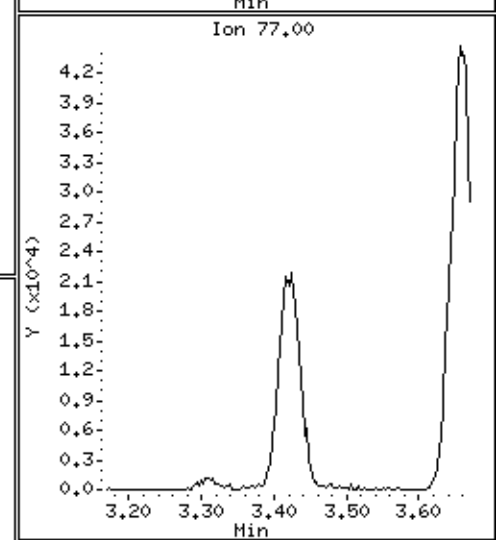


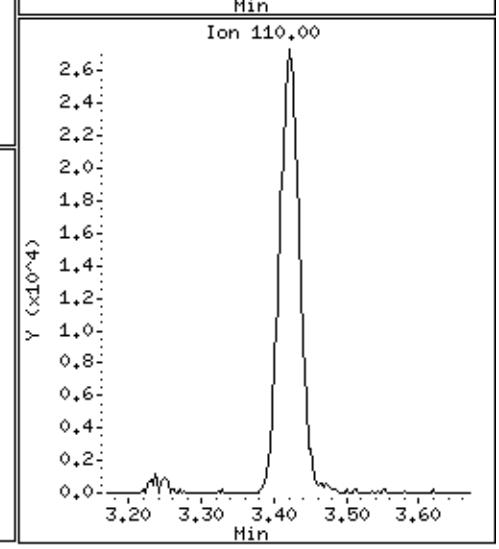












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

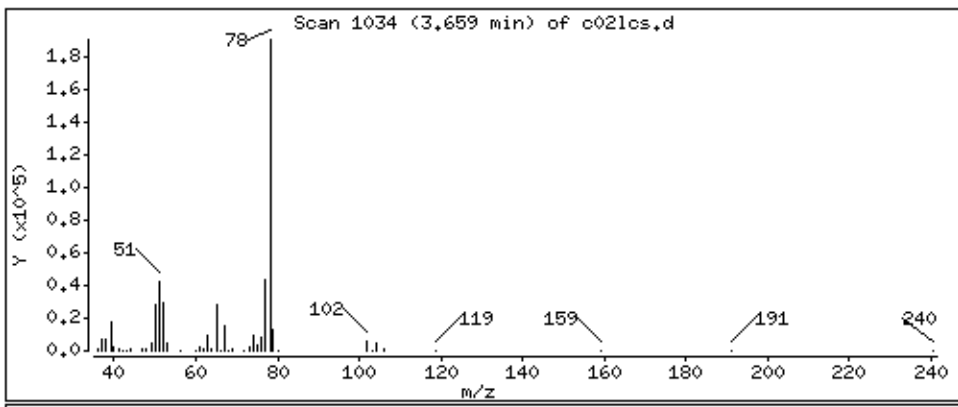
Operator: dae

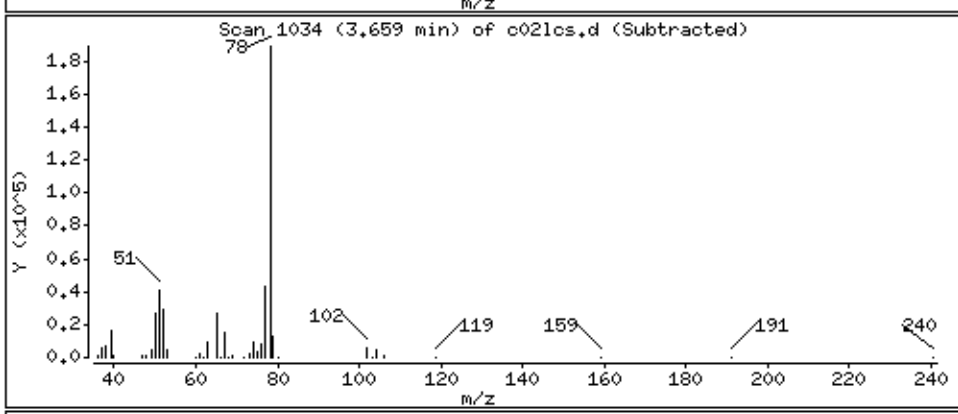
Column phase: DB-624

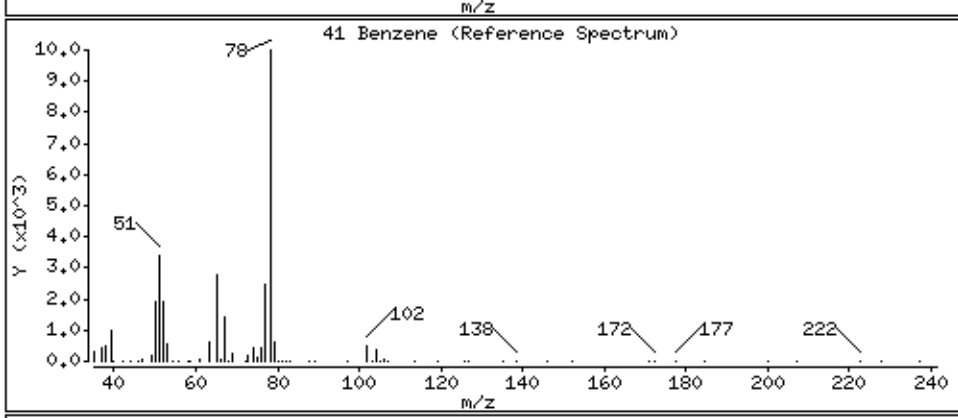
Column diameter: 0.18

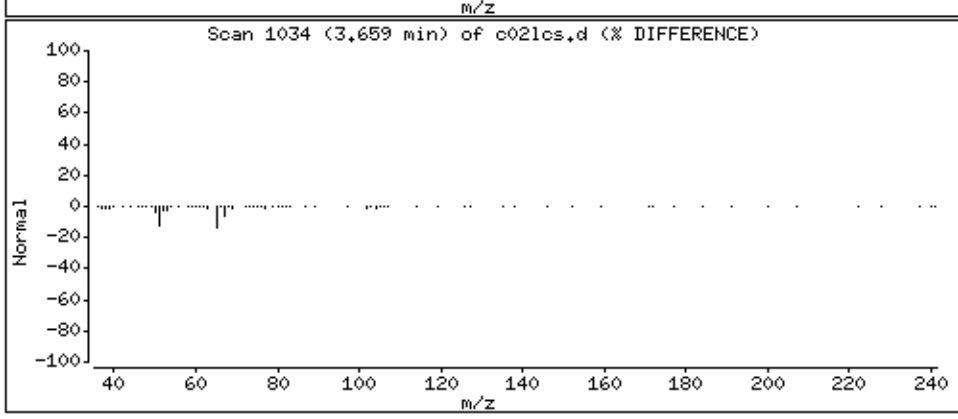
41 Benzene

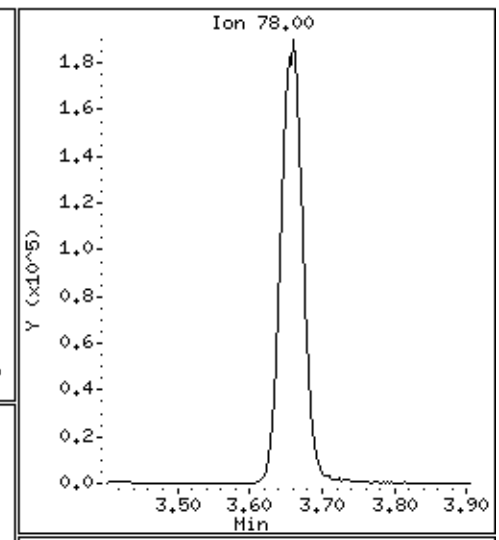
Concentration: 47.8 ppb

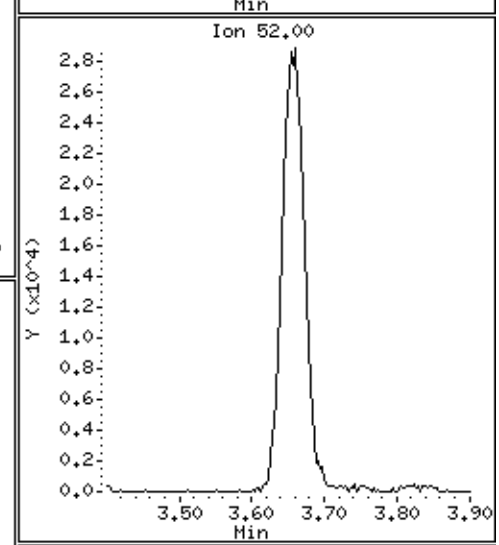


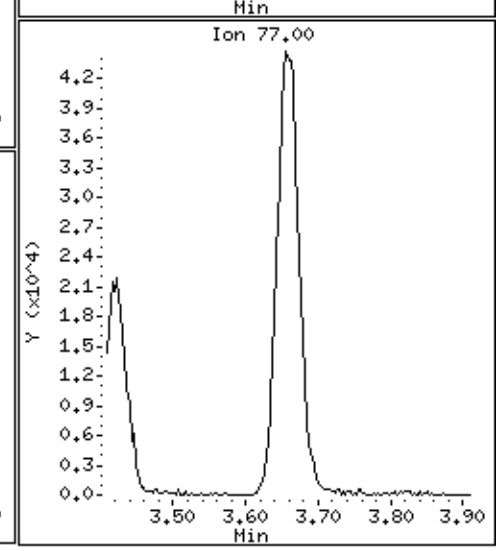












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

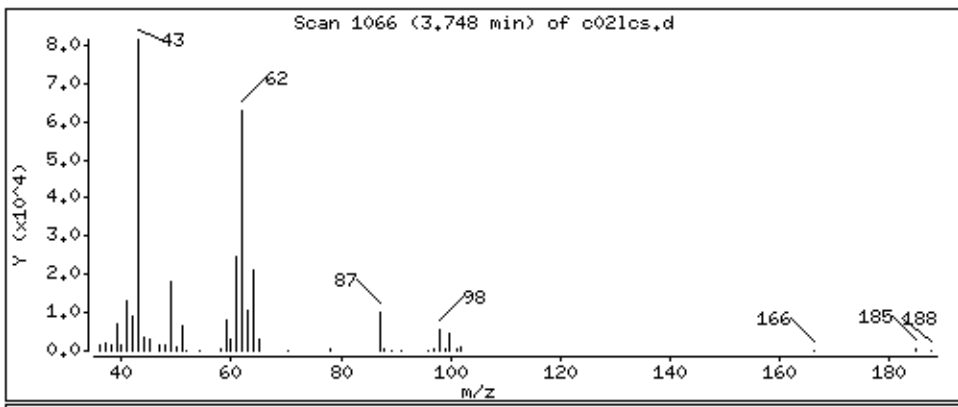
Operator: dae

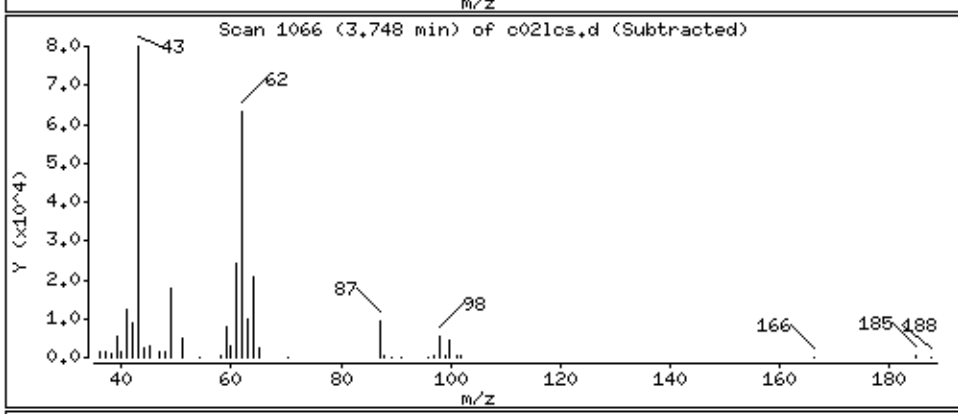
Column phase: DB-624

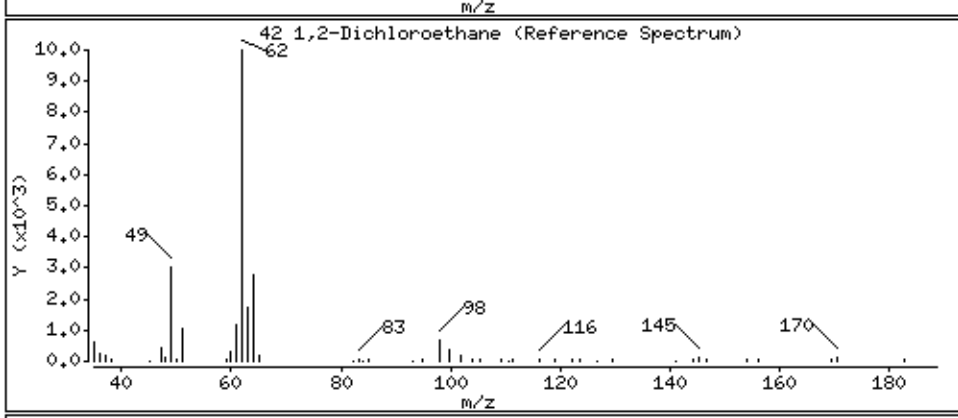
Column diameter: 0.18

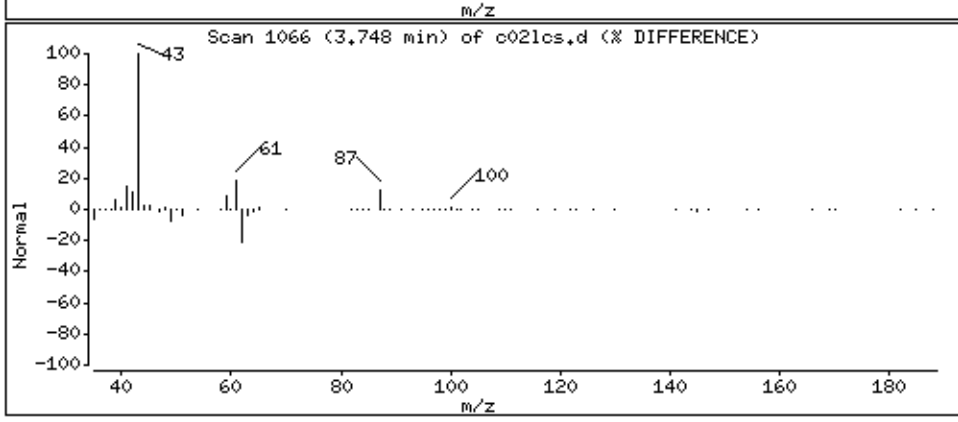
42 1,2-Dichloroethane

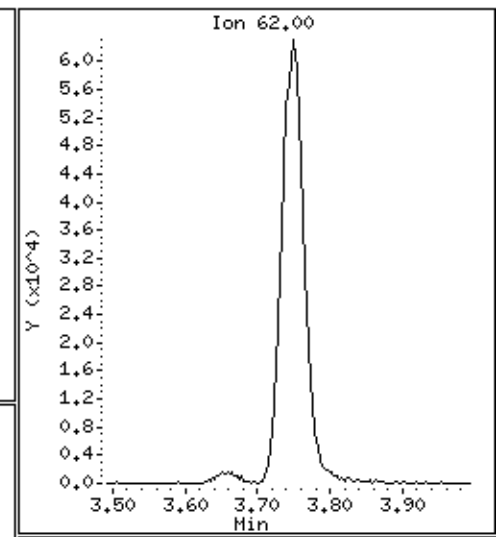
Concentration: 48.4 ppb

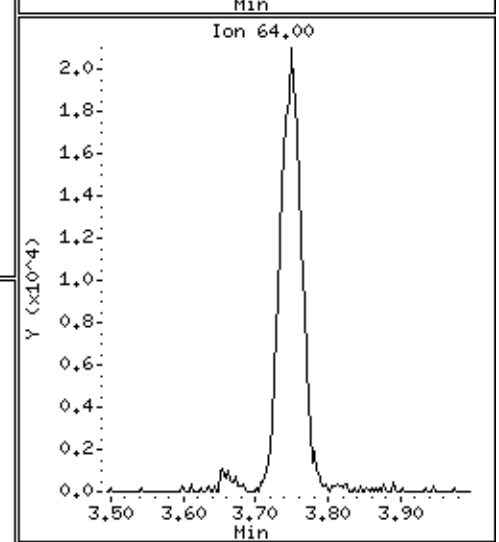


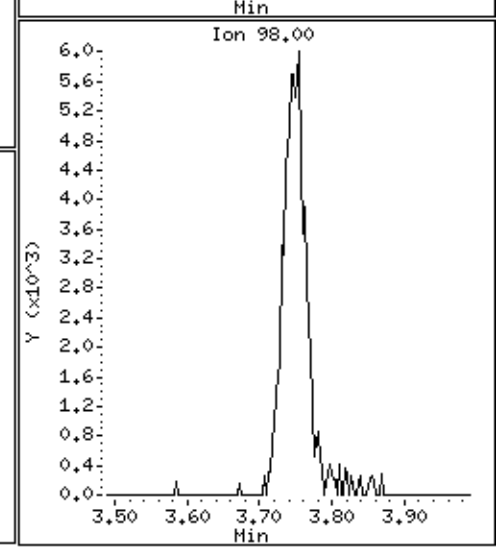












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

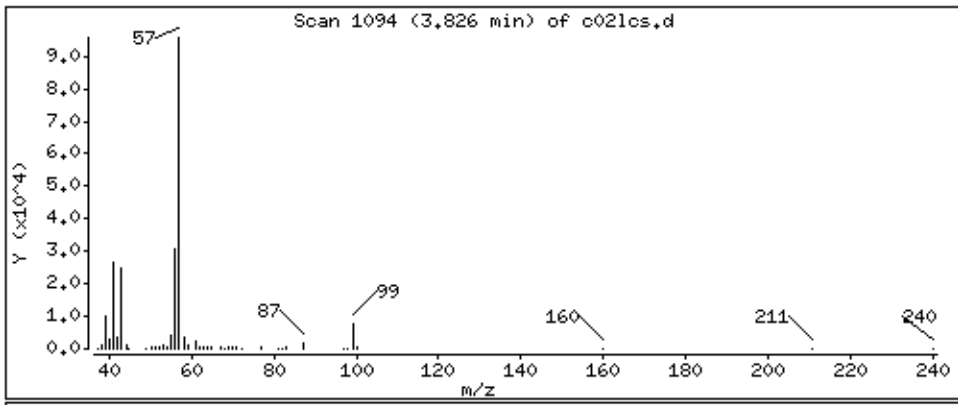
Operator: dae

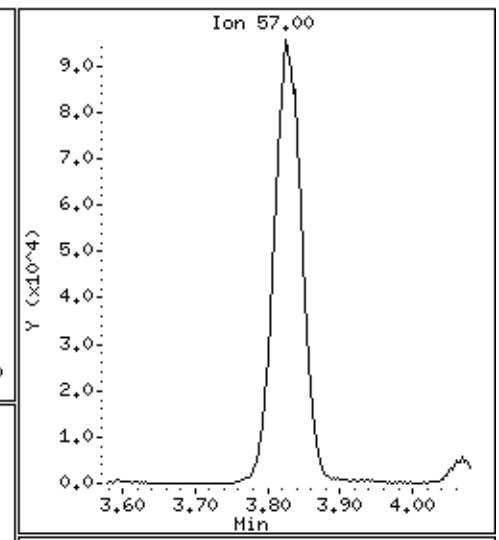
Column phase: DB-624

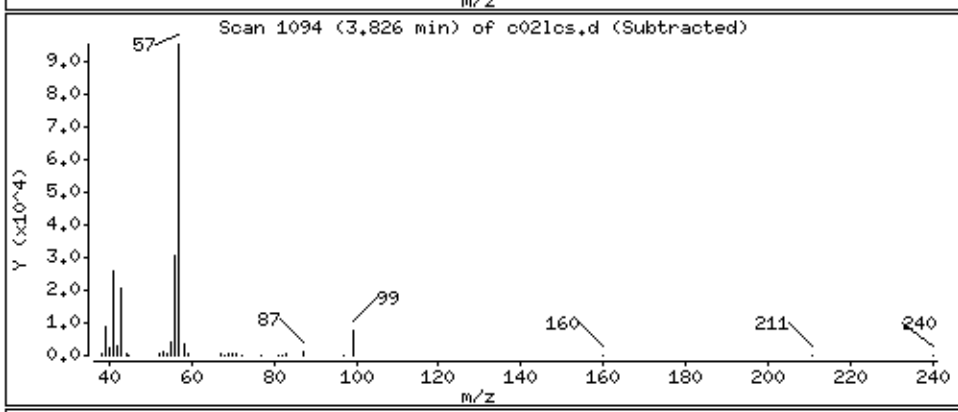
Column diameter: 0.18

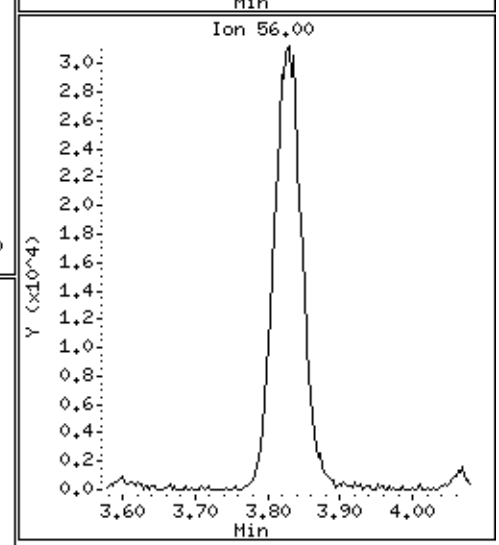
43 2,2,4-Trimethylpentane

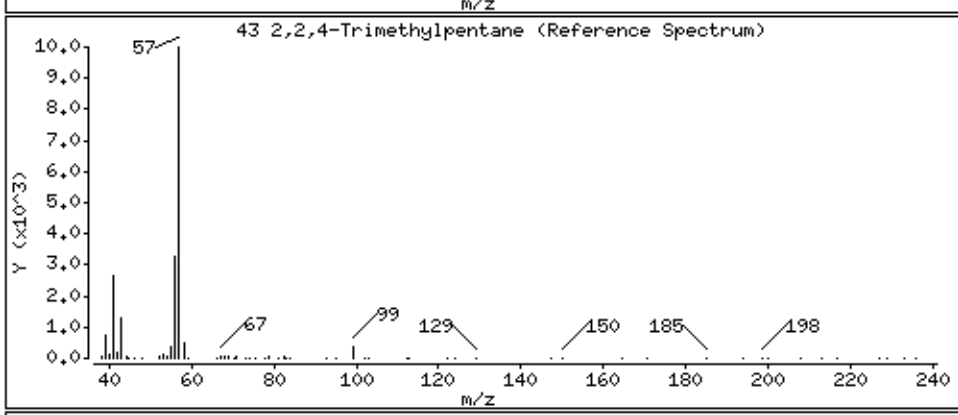
Concentration: 48.4 ppb

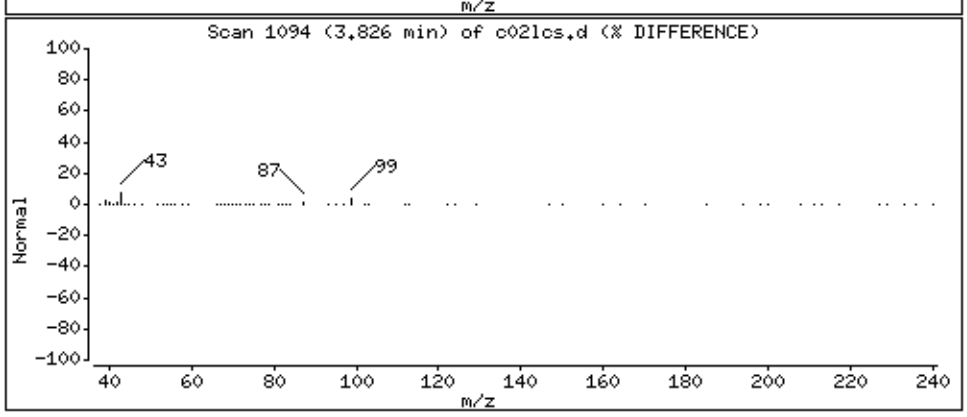












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

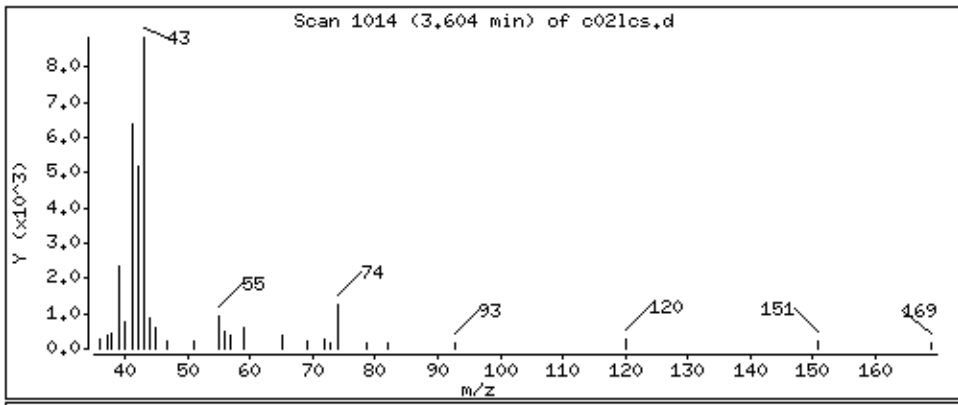
Operator: dae

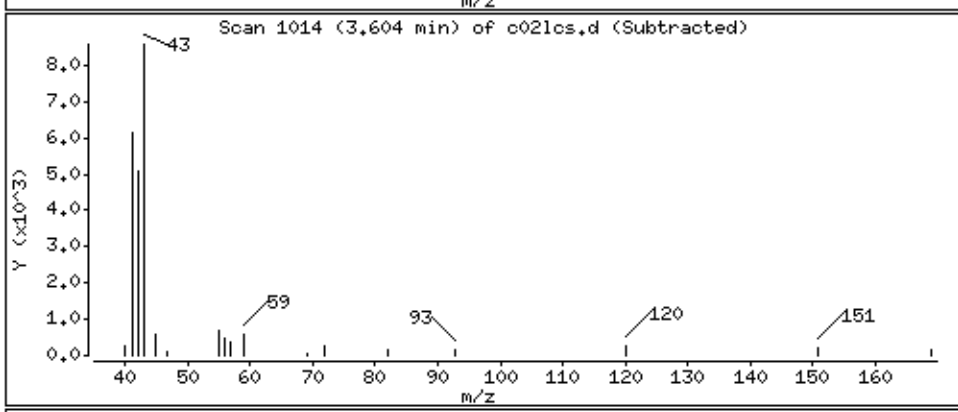
Column phase: DB-624

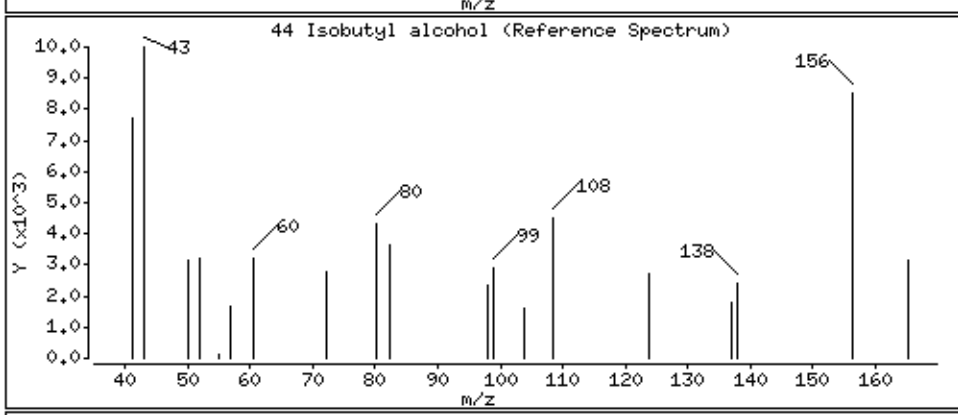
Column diameter: 0.18

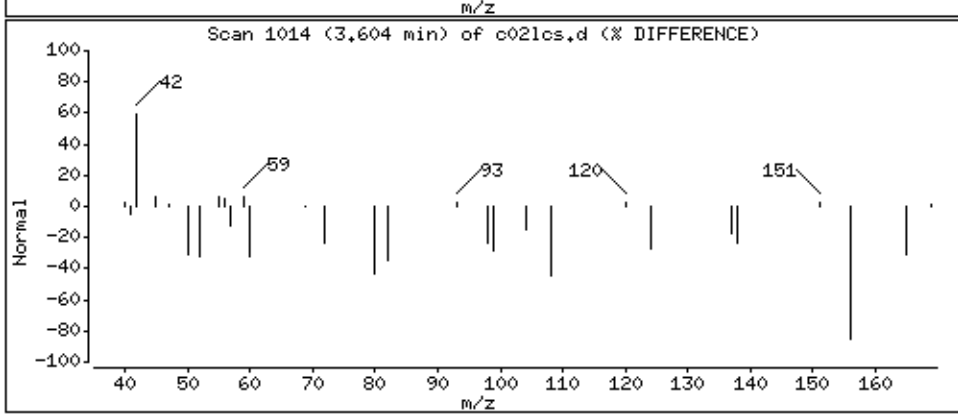
44 Isobutyl alcohol

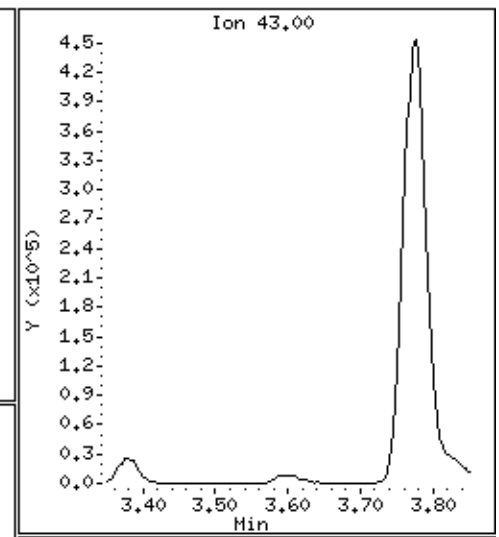
Concentration: 1.17 ppb

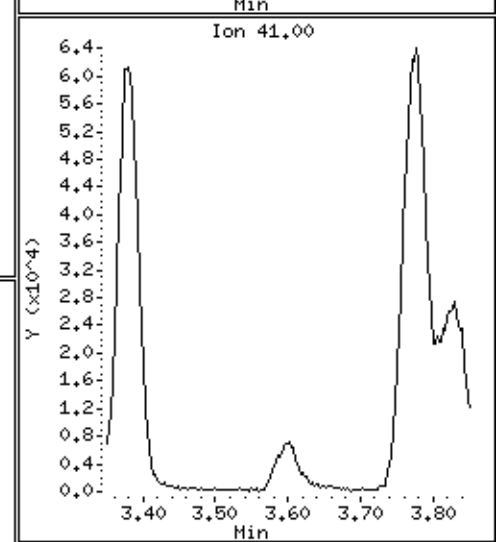


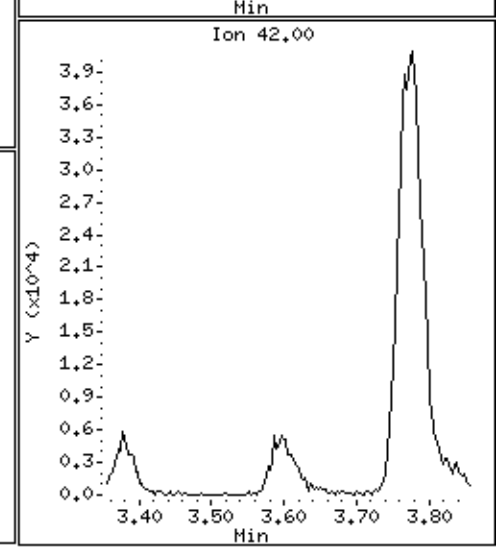












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

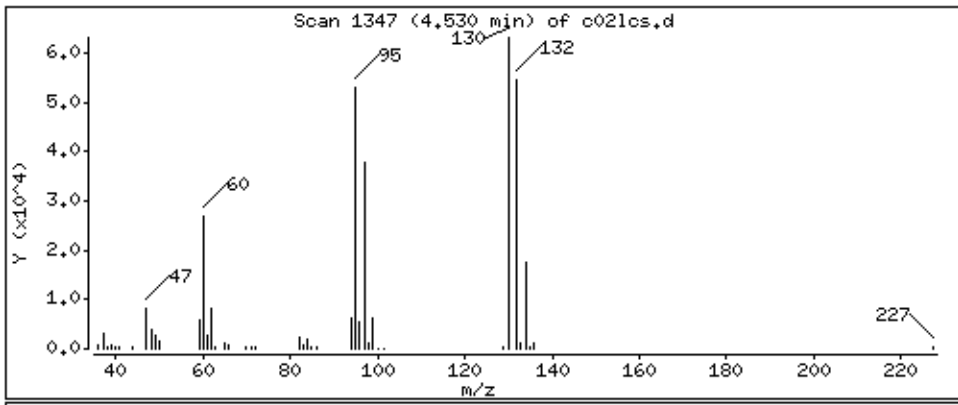
Operator: dae

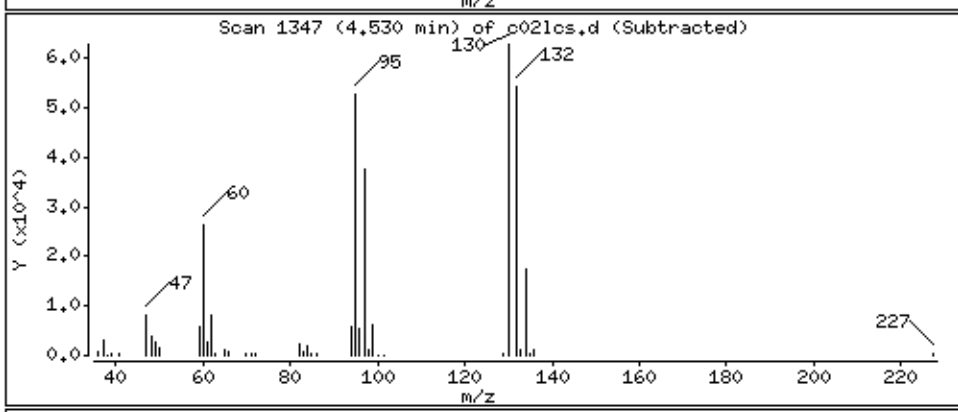
Column phase: DB-624

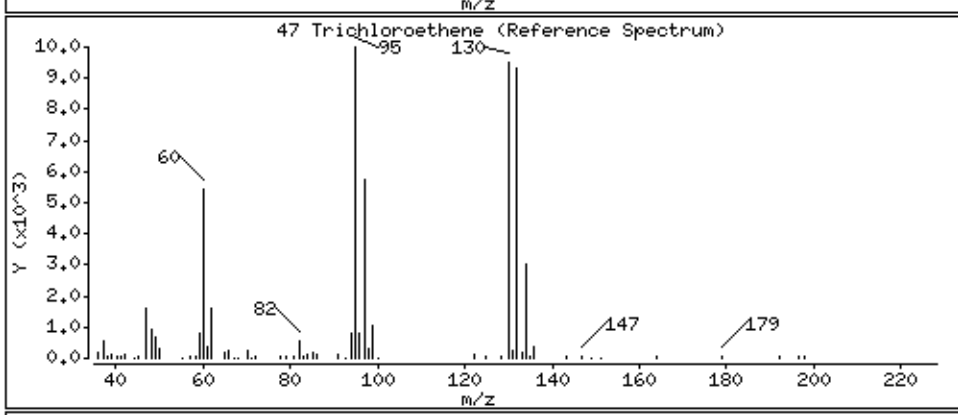
Column diameter: 0.18

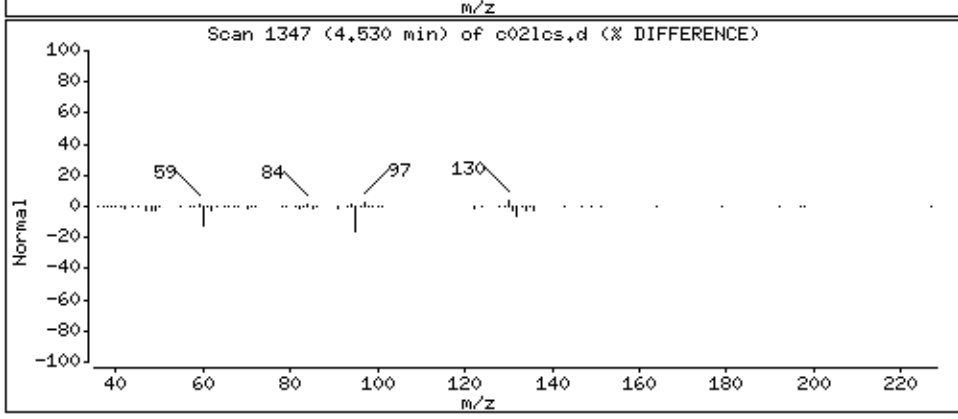
47 Trichloroethene

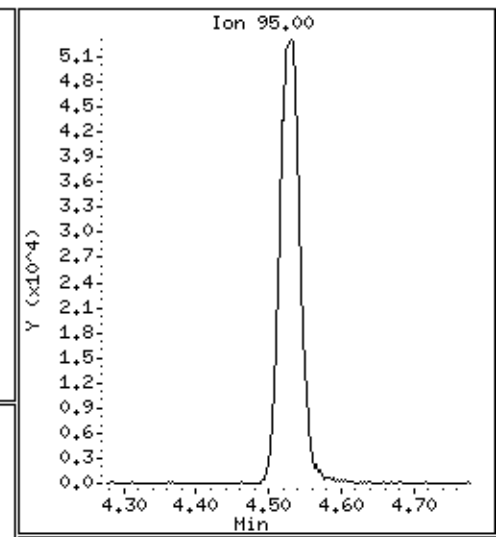
Concentration: 50.3 ppb

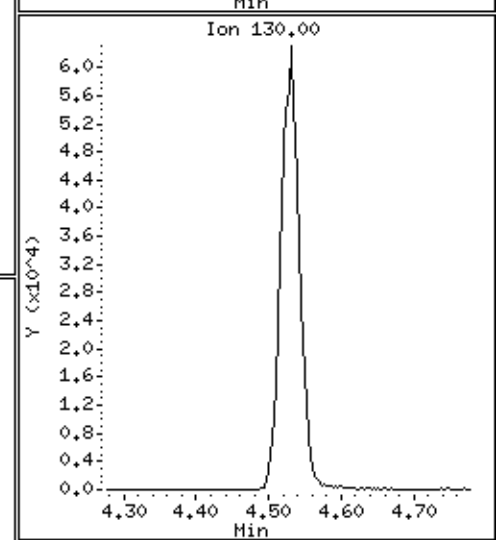


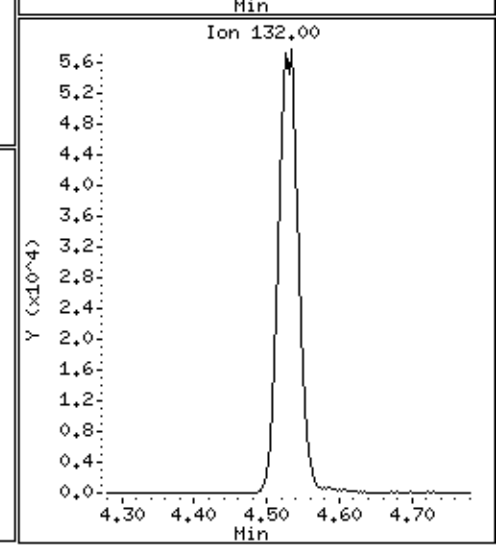












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

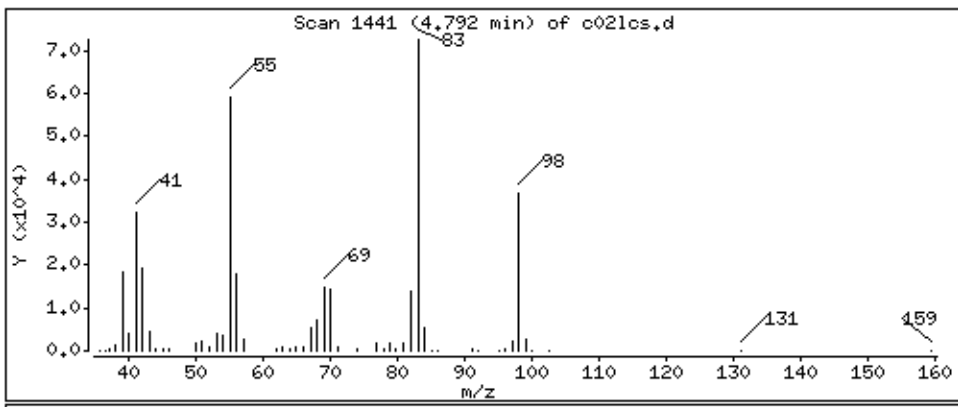
Operator: dae

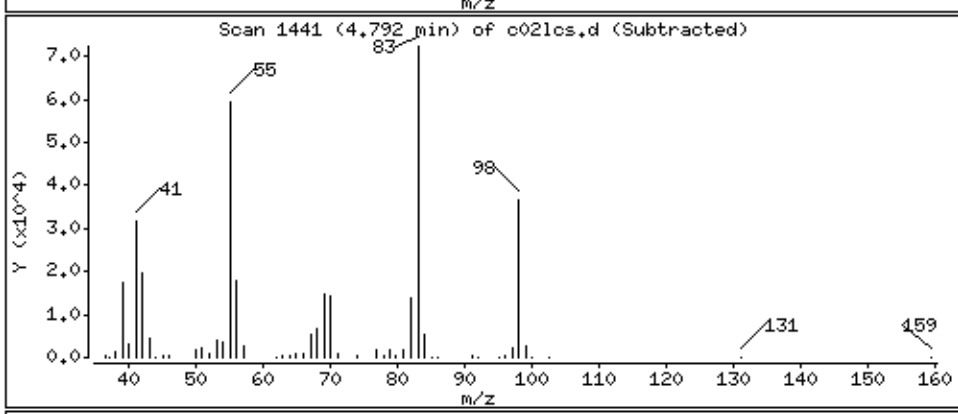
Column phase: DB-624

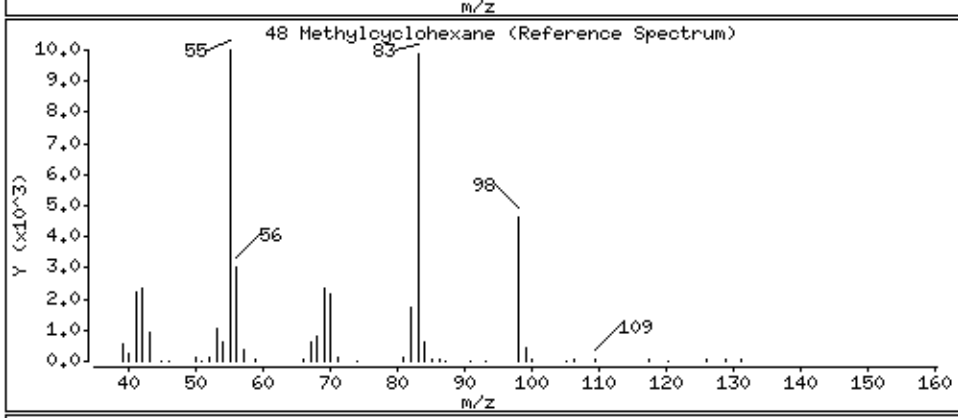
Column diameter: 0.18

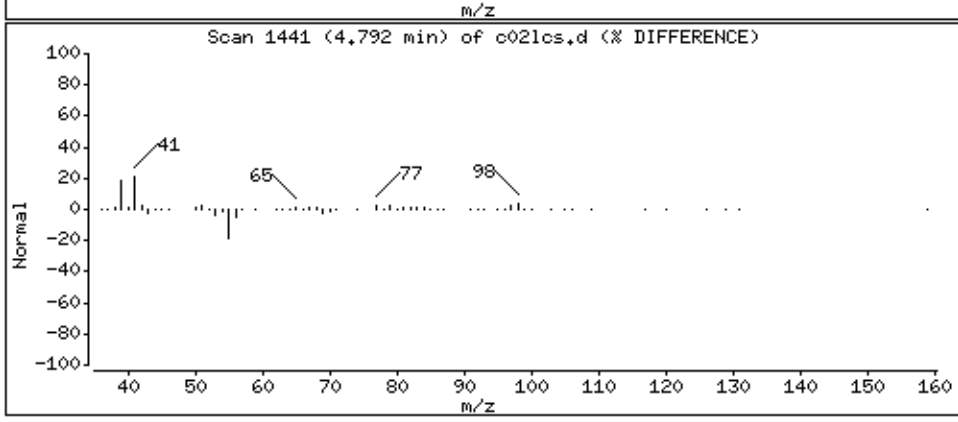
48 Methylcyclohexane

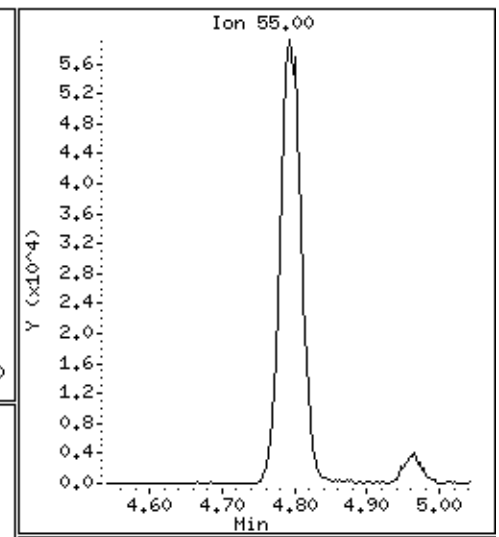
Concentration: 49.9 ppb

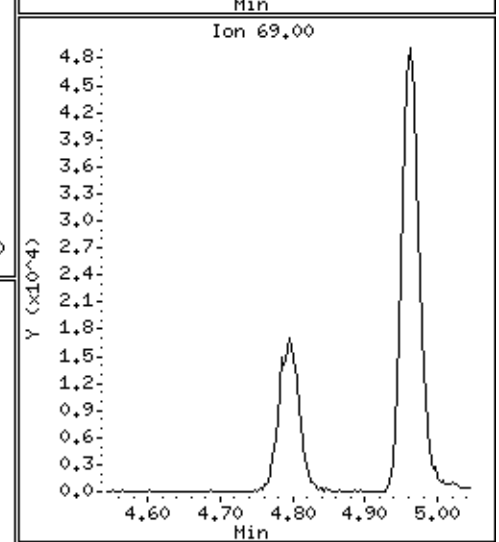


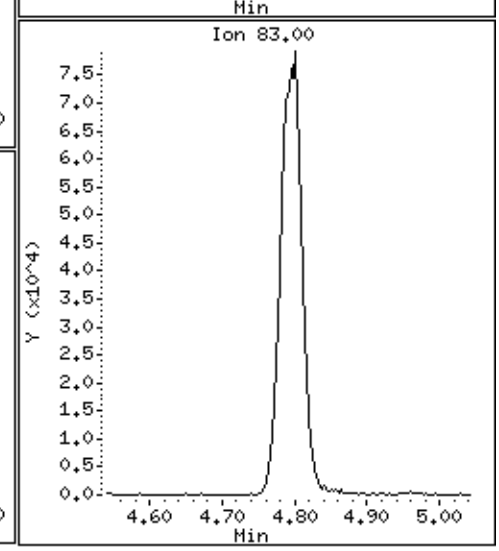












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

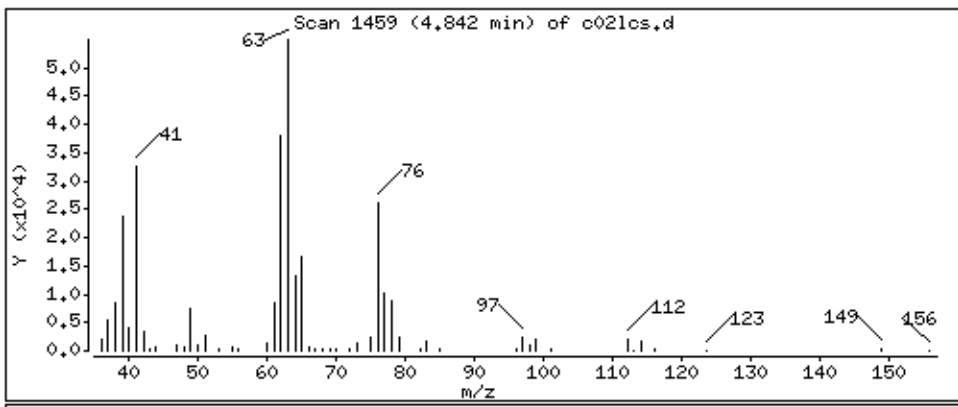
Operator: dae

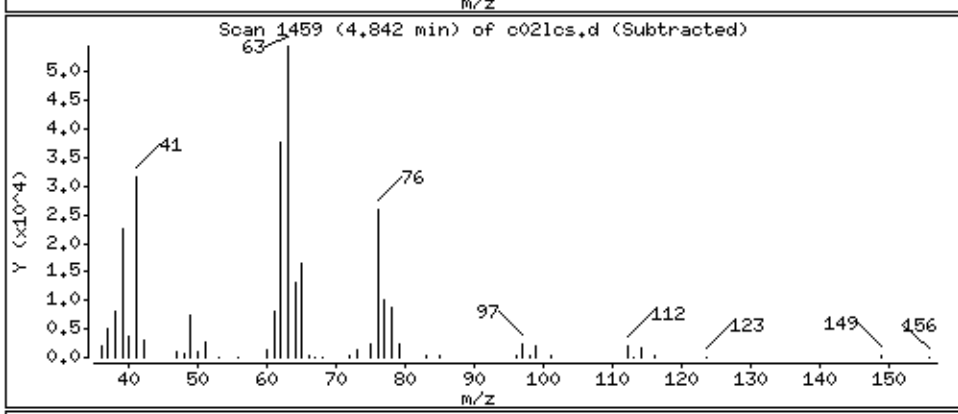
Column phase: DB-624

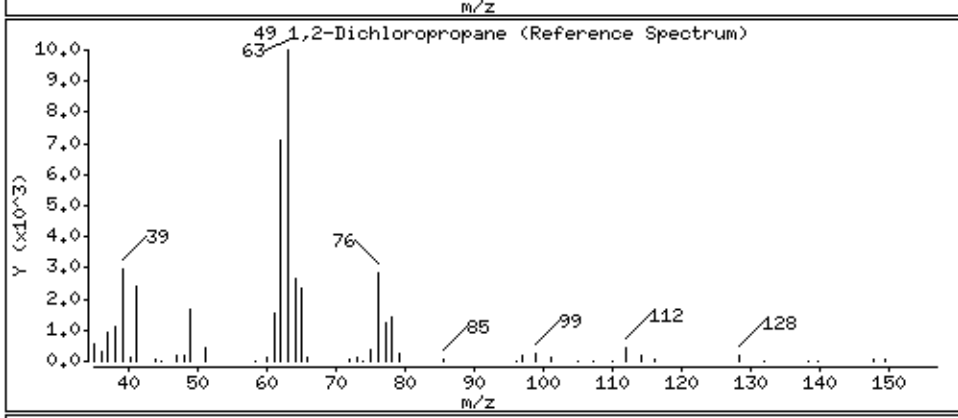
Column diameter: 0.18

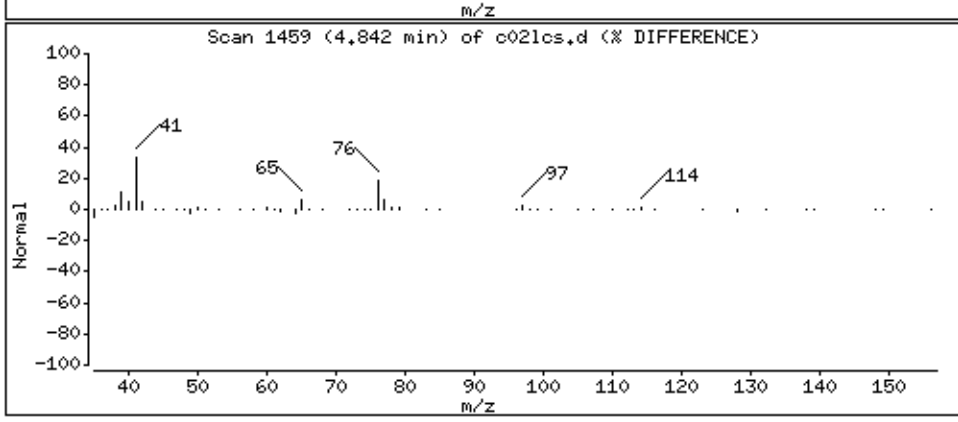
49 1,2-Dichloropropane

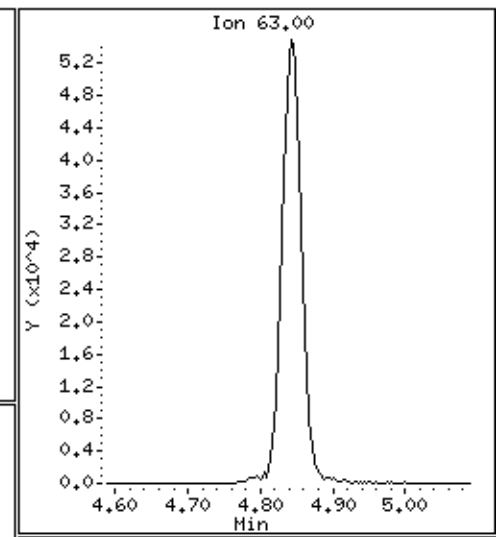
Concentration: 49.2 ppb

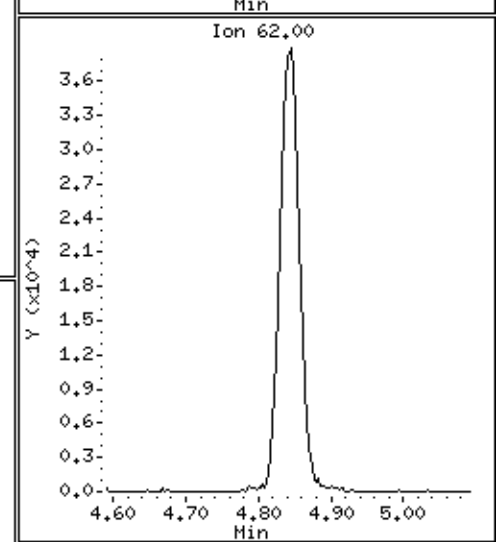


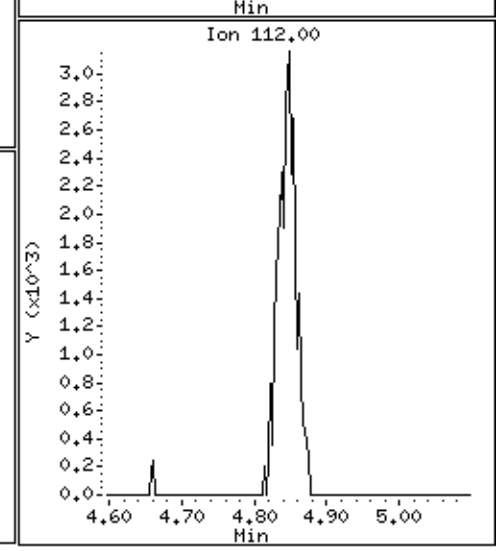












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

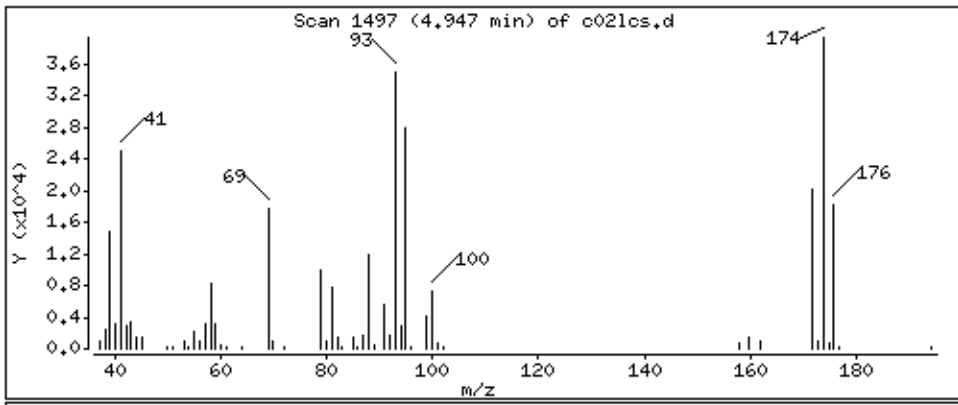
Operator: dae

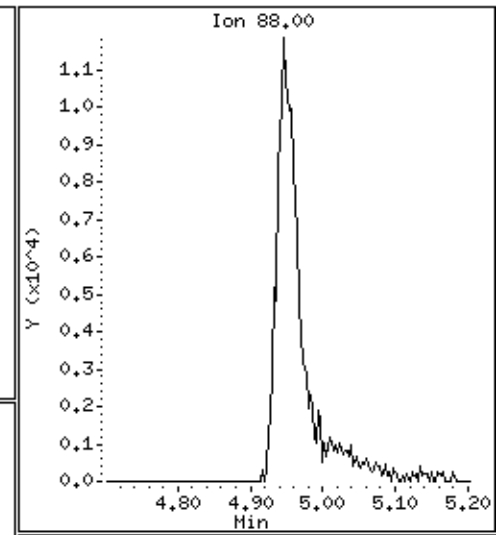
Column phase: DB-624

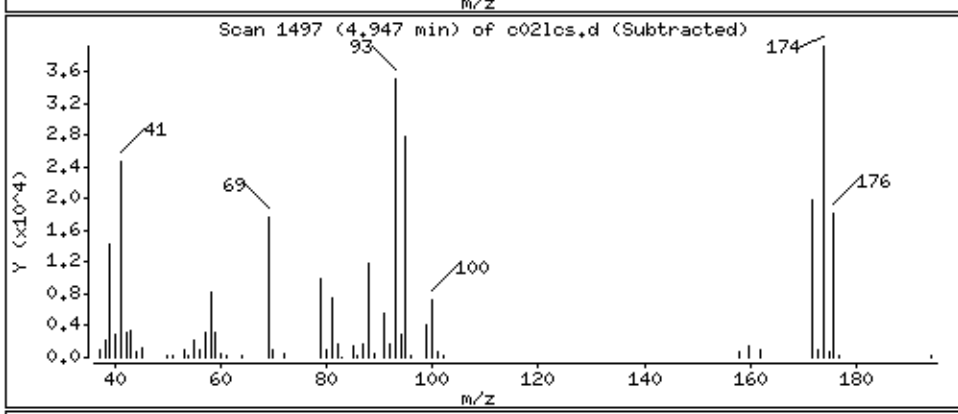
Column diameter: 0.18

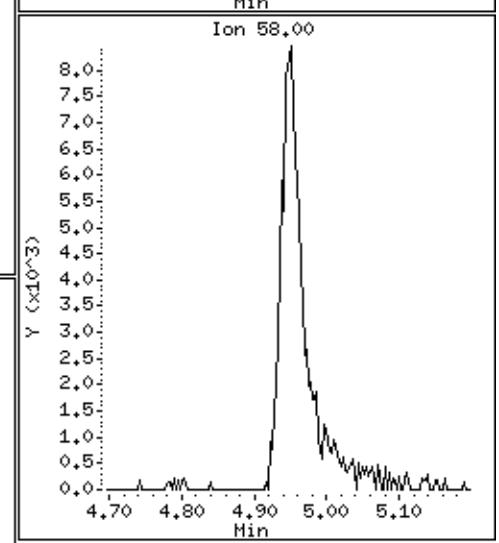
50 1,4-Dioxane

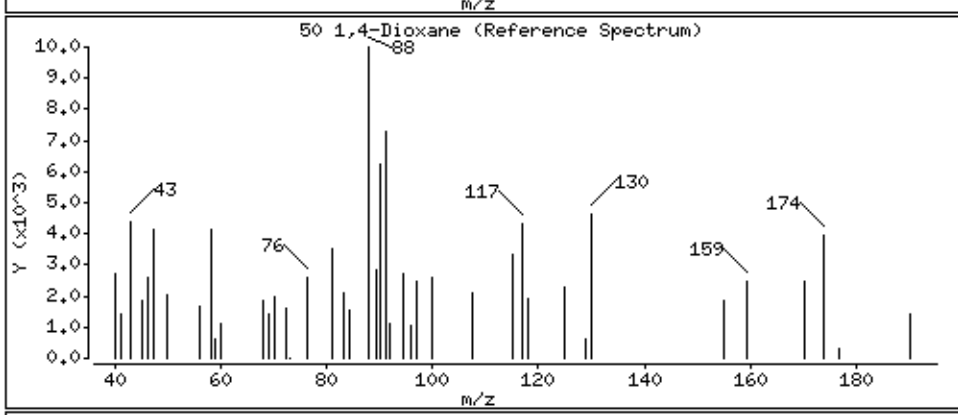
Concentration: 1110 ppb

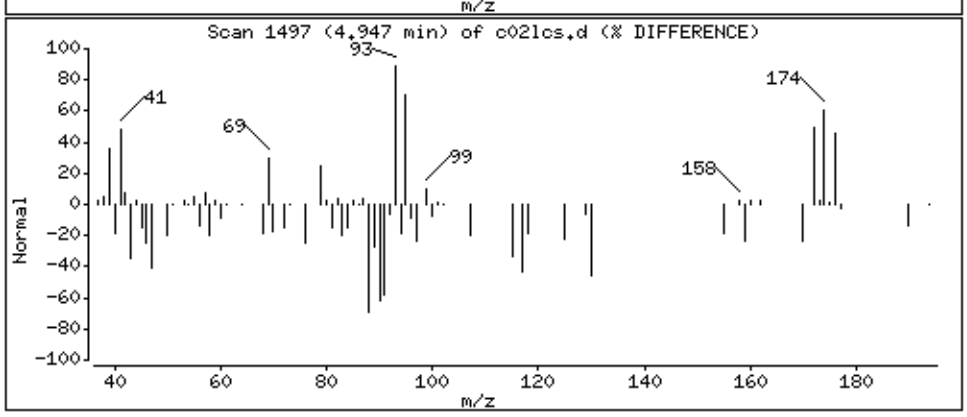












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

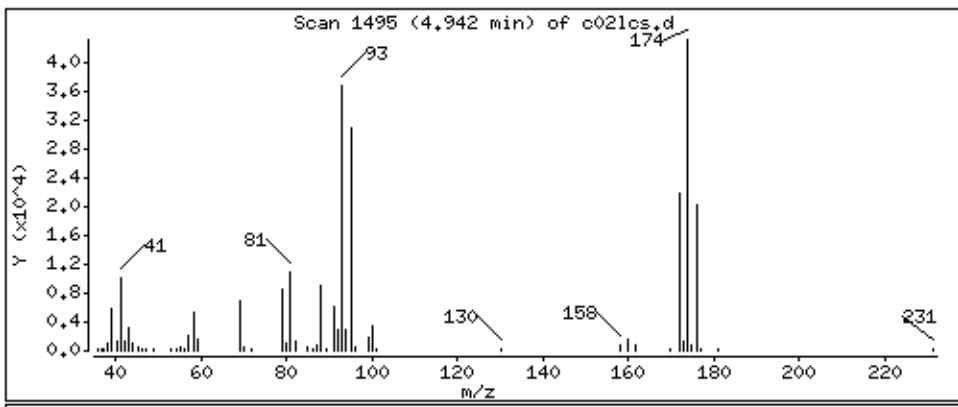
Operator: dae

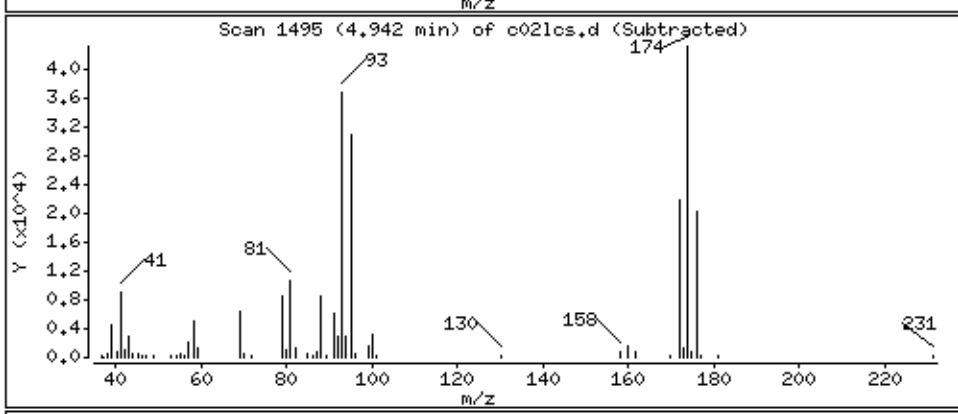
Column phase: DB-624

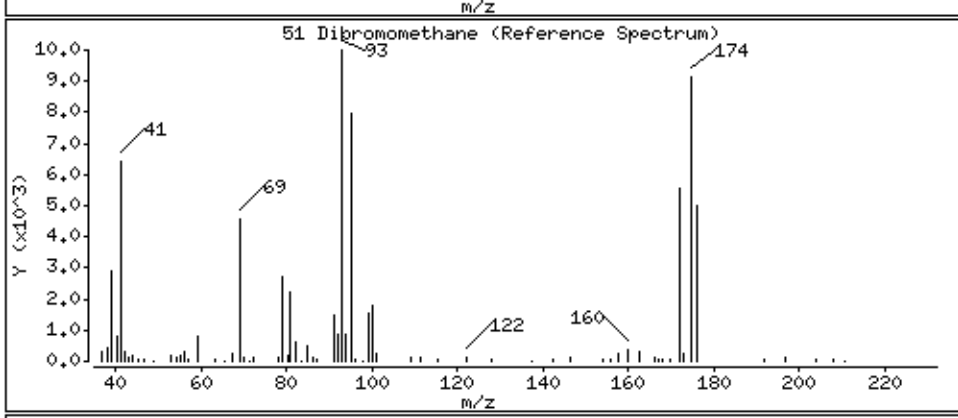
Column diameter: 0.18

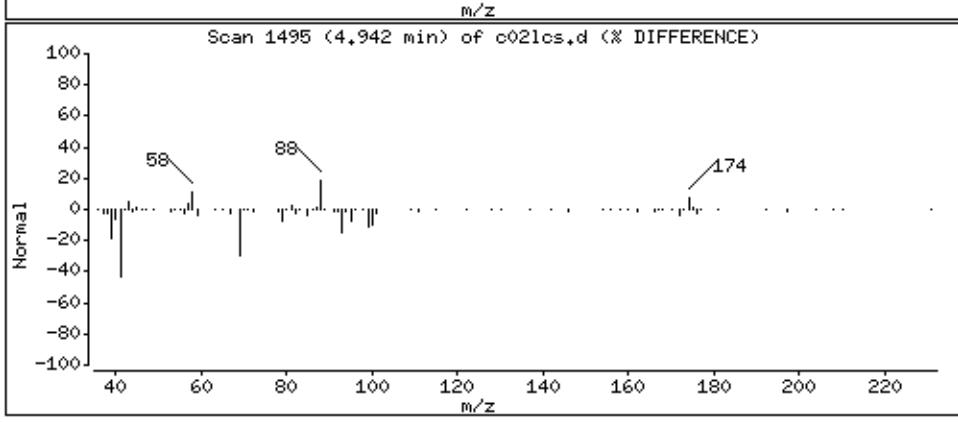
51 Dibromomethane

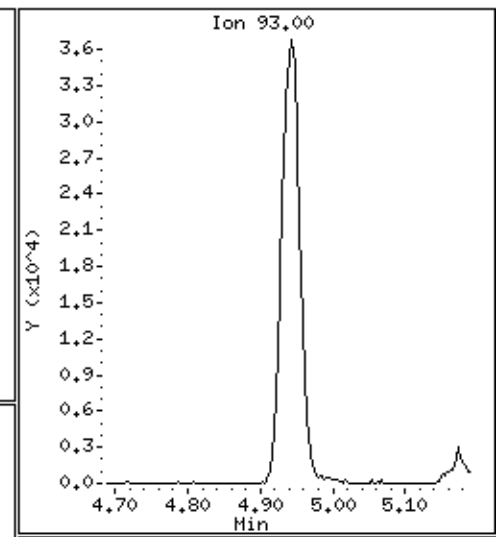
Concentration: 49.3 ppb

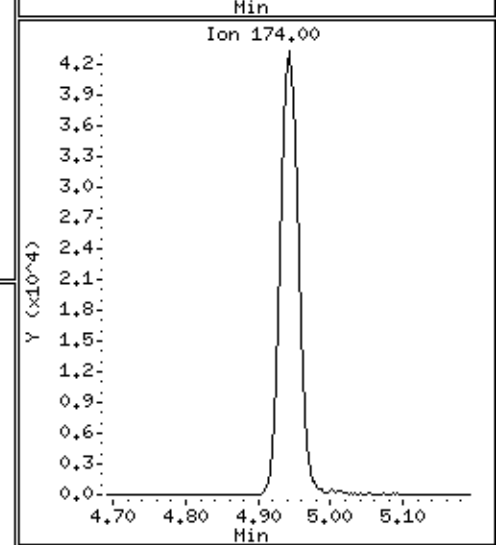


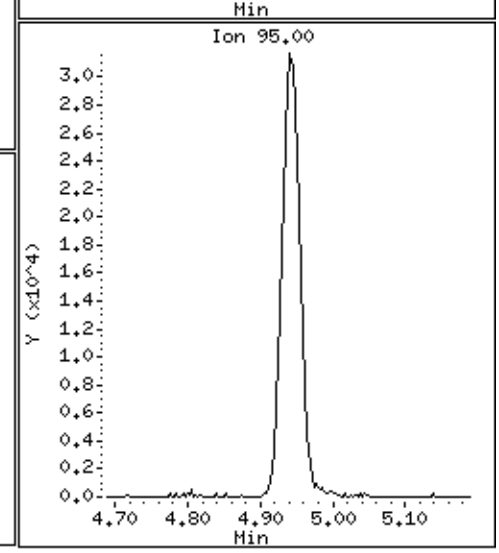












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

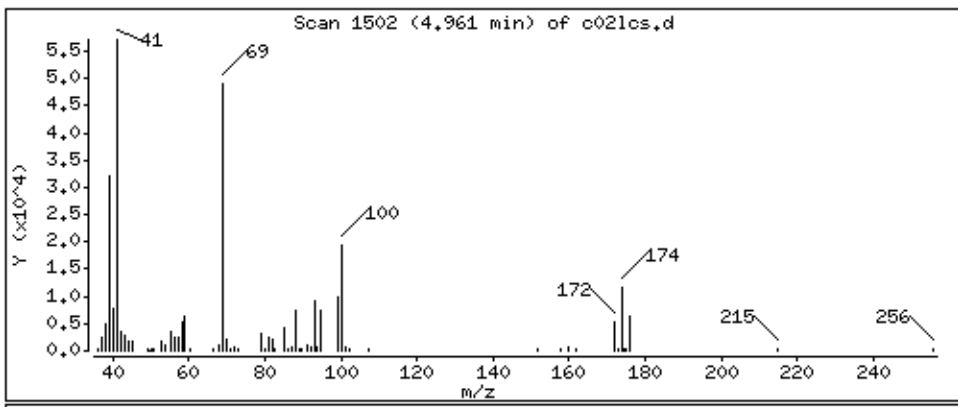
Operator: dae

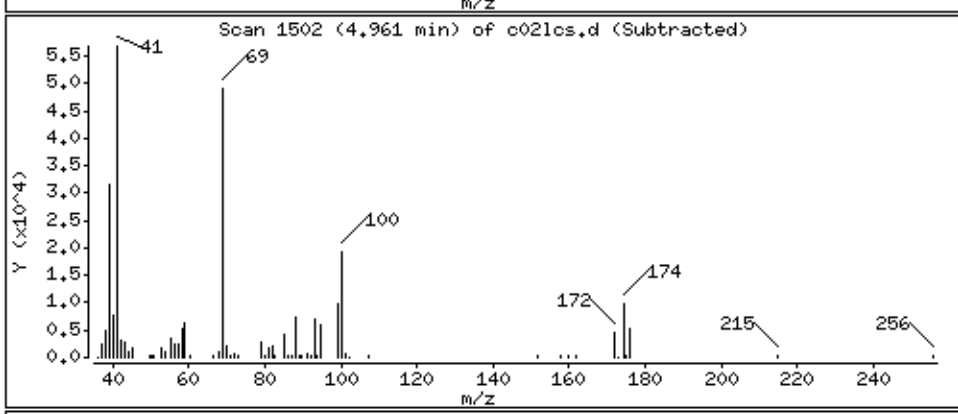
Column phase: DB-624

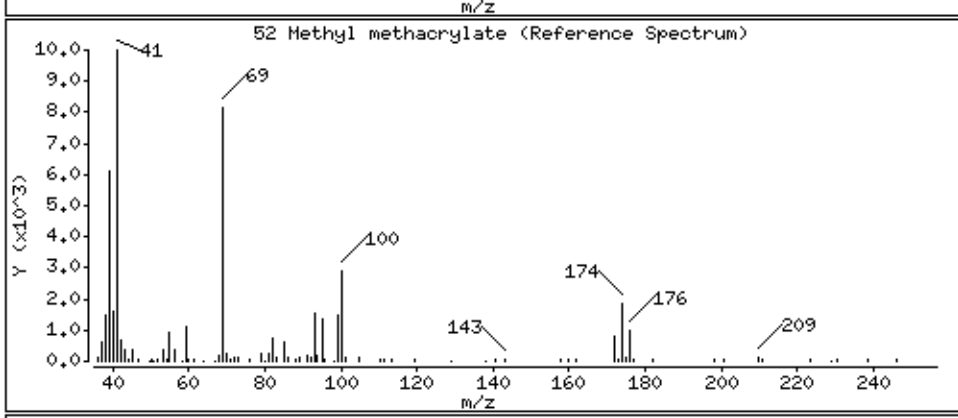
Column diameter: 0.18

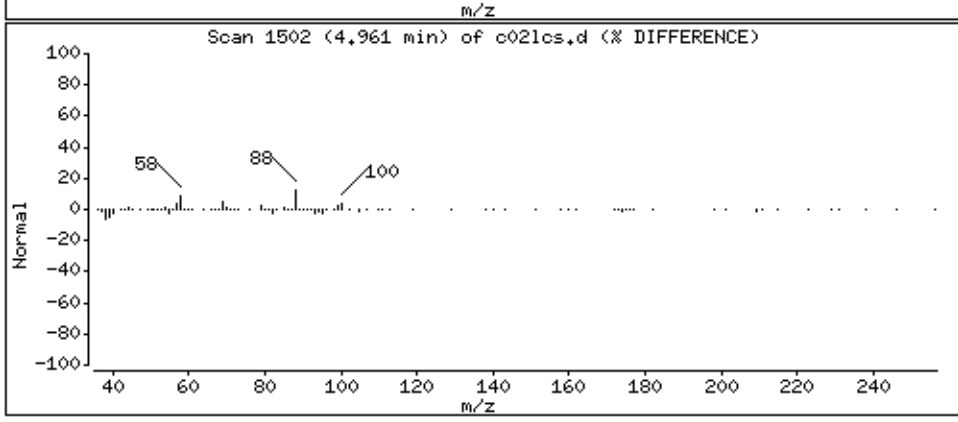
52 Methyl methacrylate

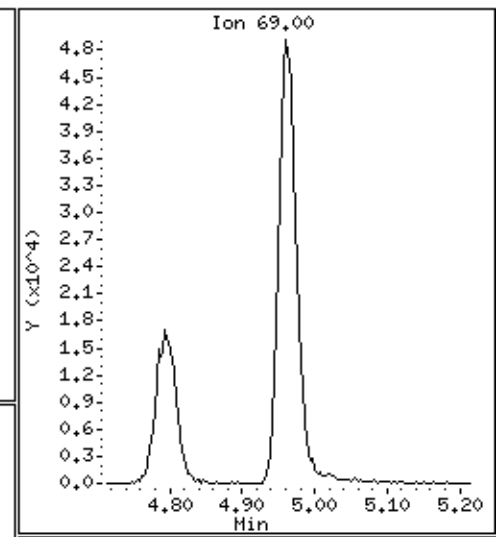
Concentration: 48.0 ppb

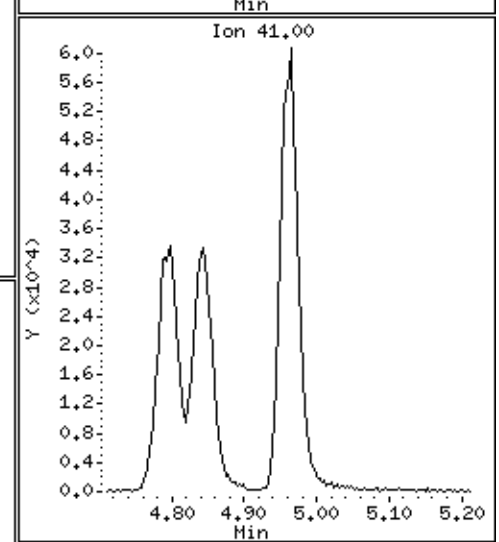


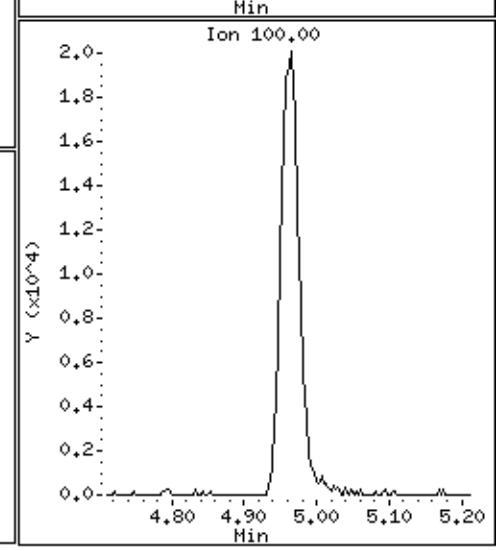












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

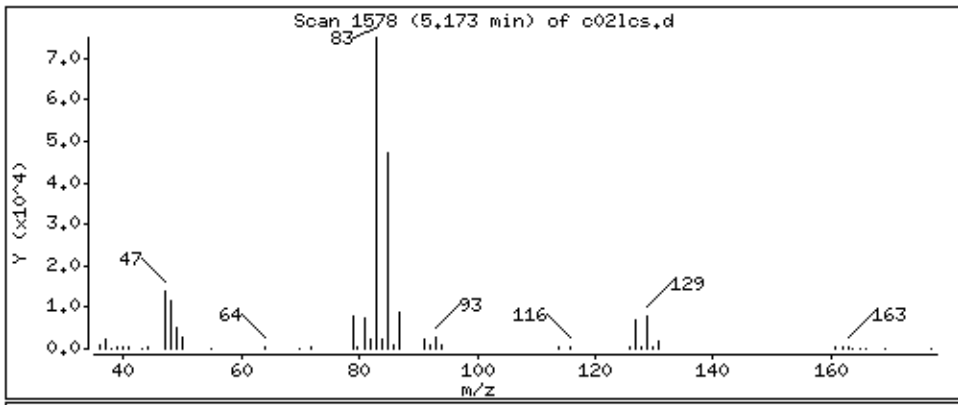
Operator: dae

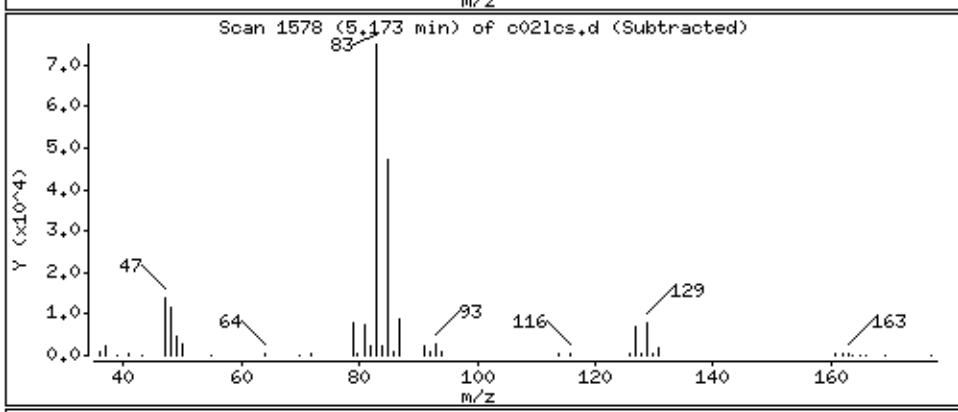
Column phase: DB-624

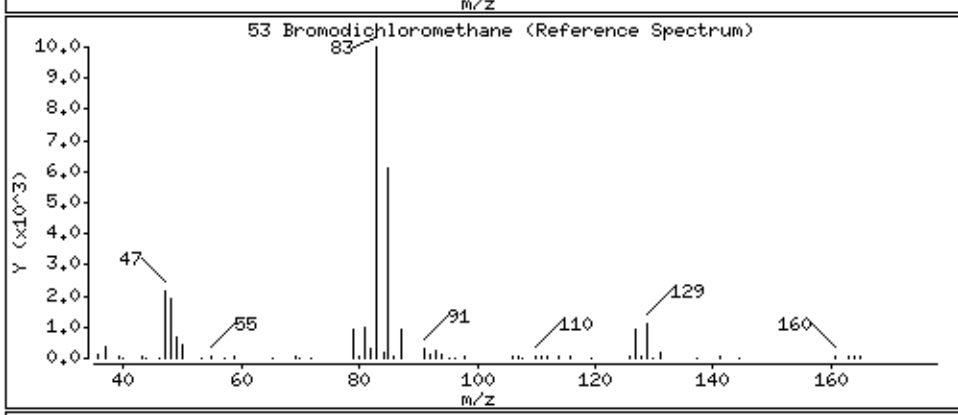
Column diameter: 0.18

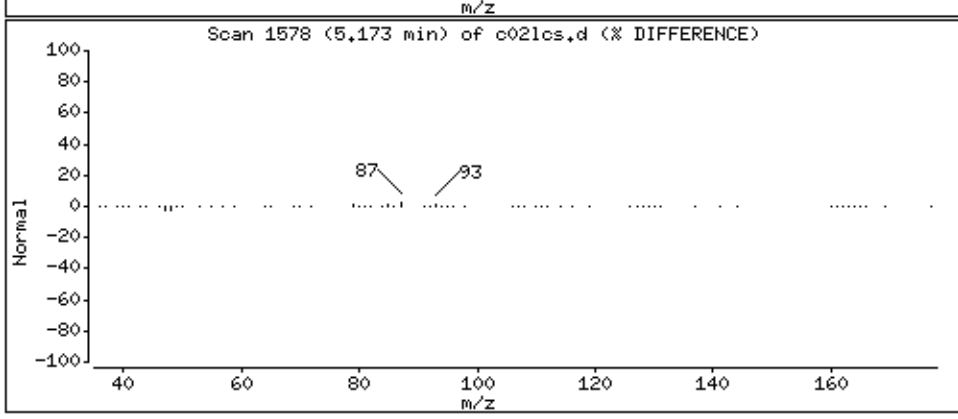
53 Bromodichloromethane

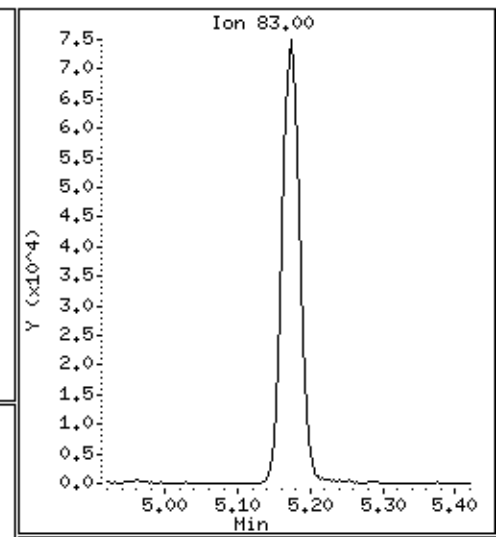
Concentration: 47.7 ppb

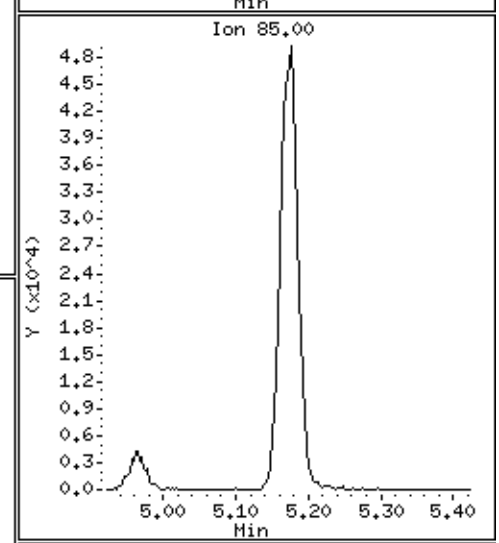


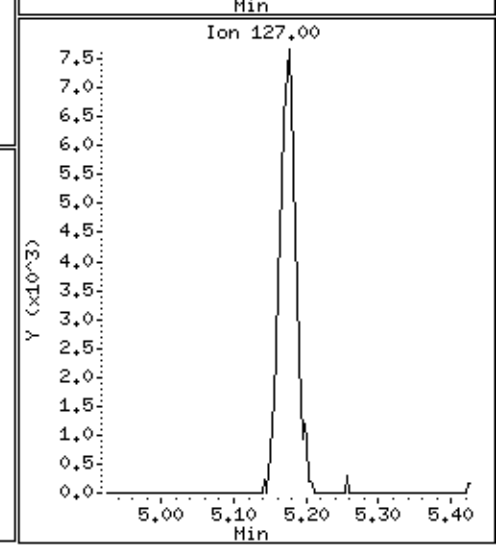












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

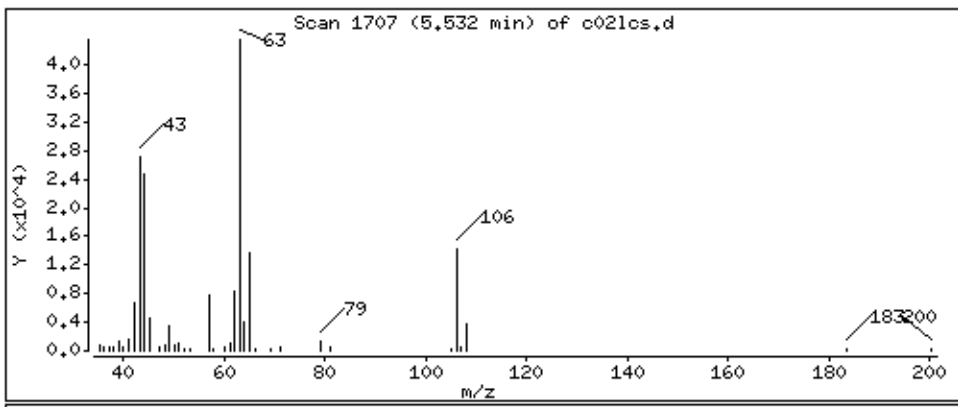
Operator: dae

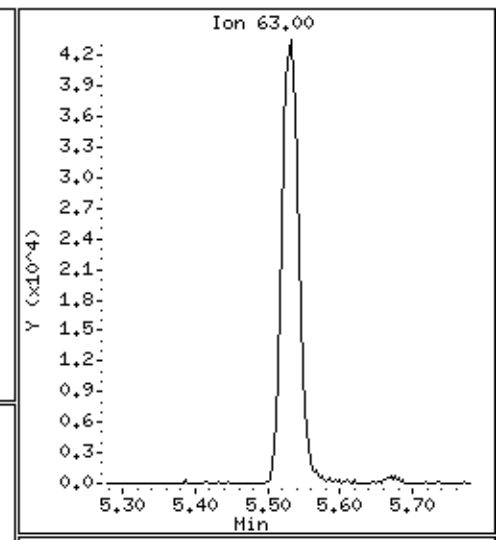
Column phase: DB-624

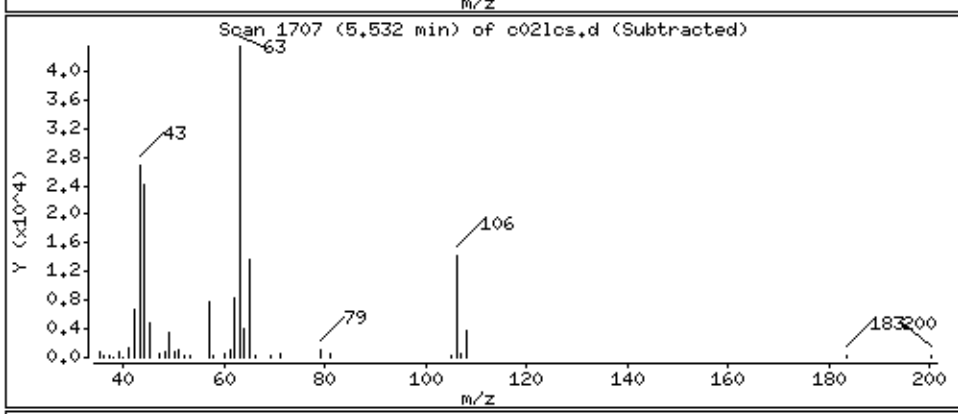
Column diameter: 0.18

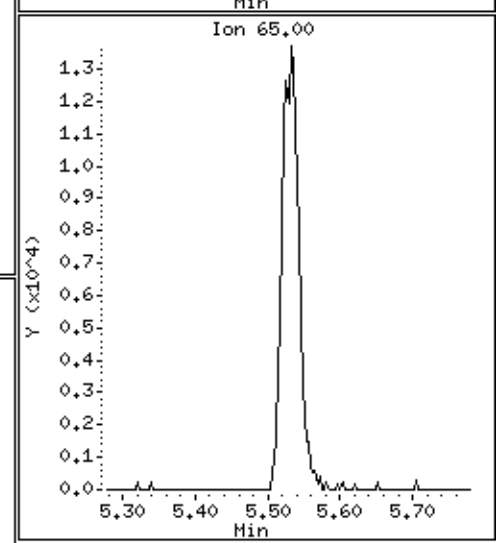
54 2-Chloroethyl vinyl ether

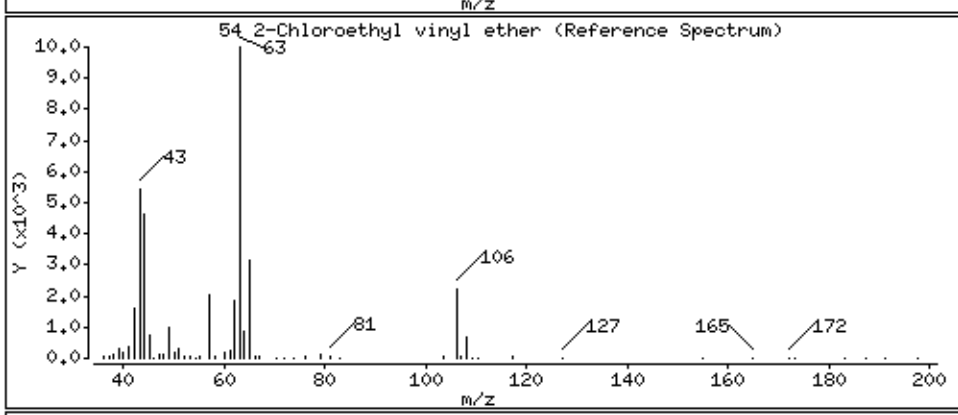
Concentration: 44.9 ppb

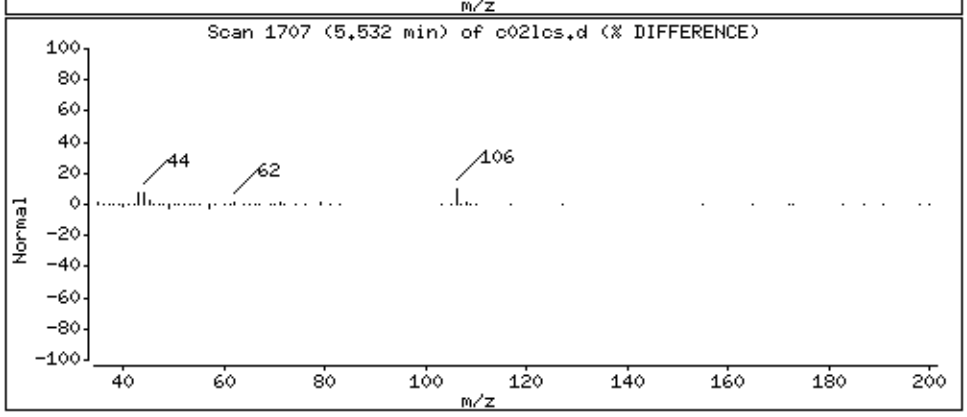












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

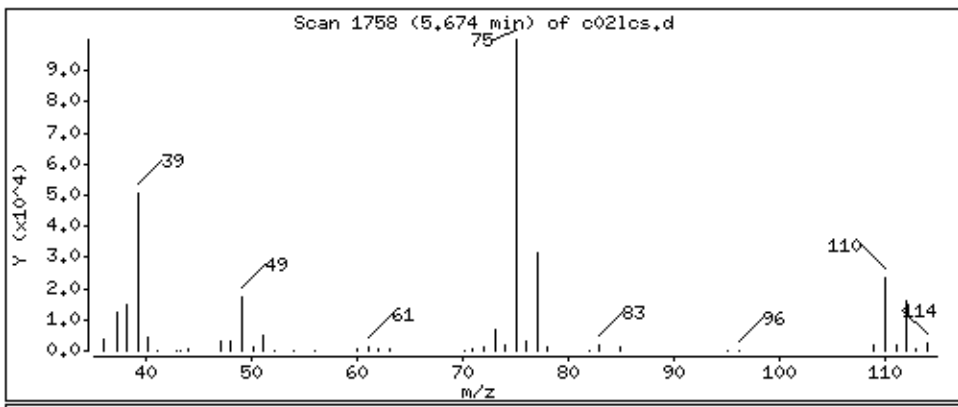
Operator: dae

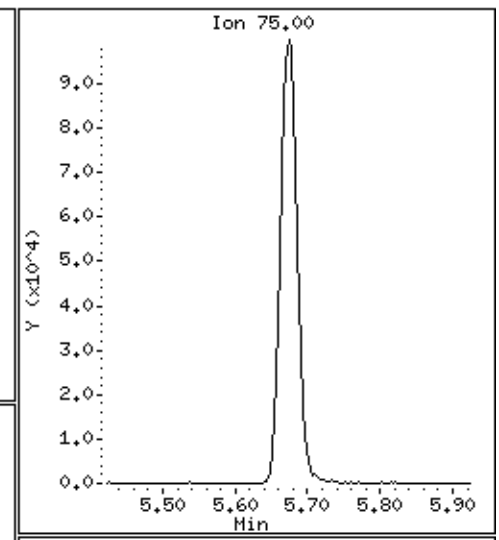
Column phase: DB-624

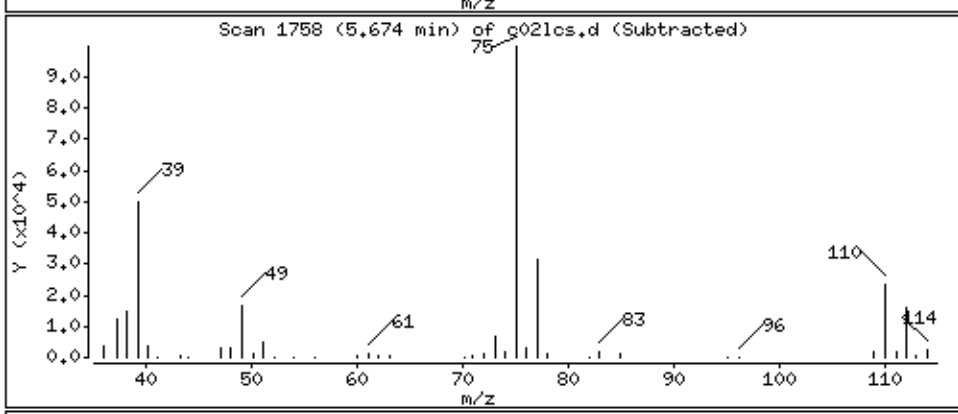
Column diameter: 0.18

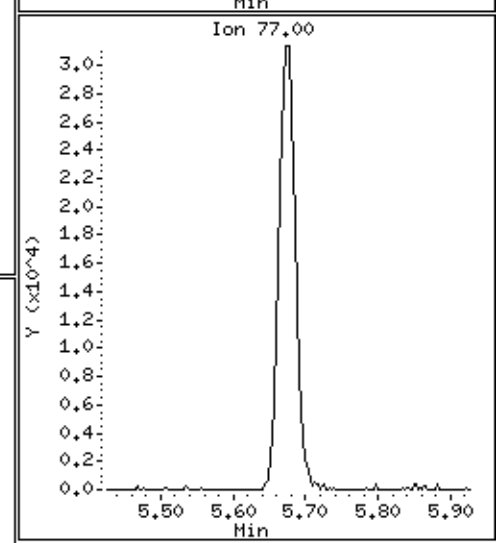
55 cis-1,3-Dichloropropene

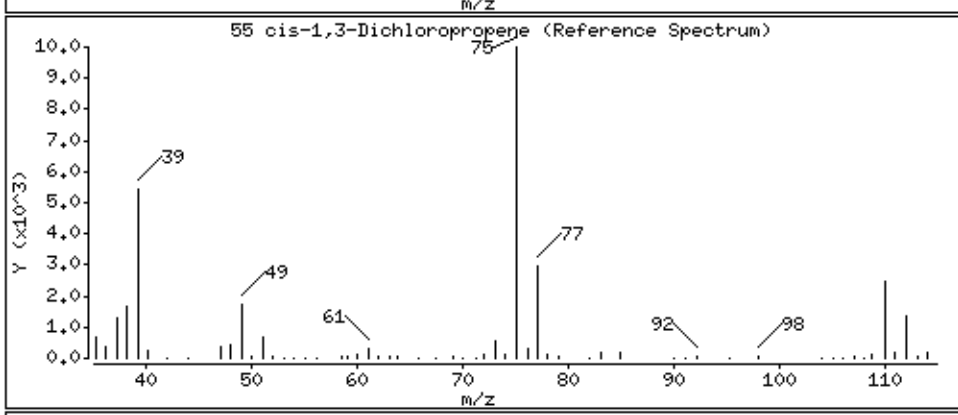
Concentration: 46.6 ppb

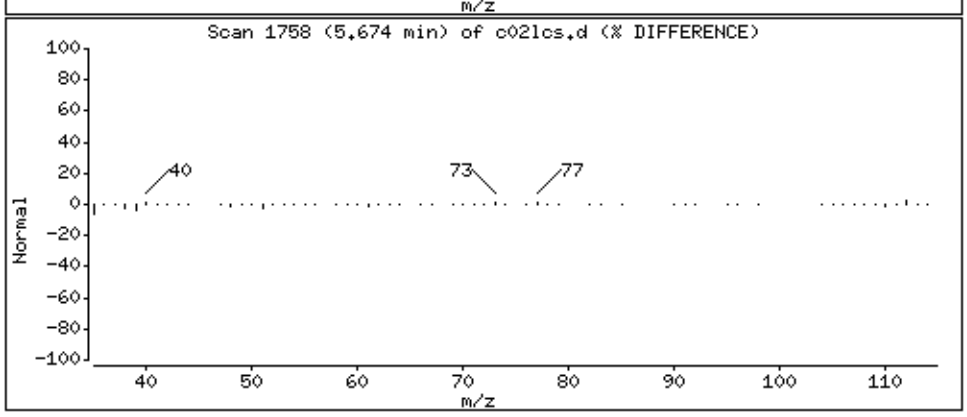












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

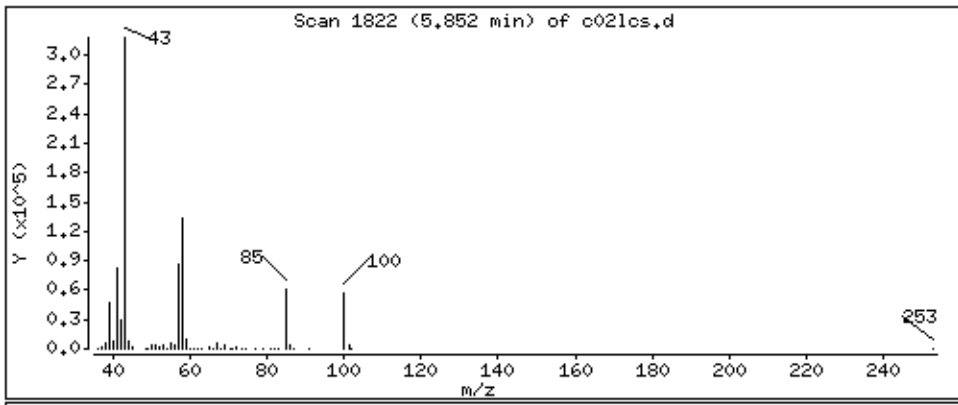
Operator: dae

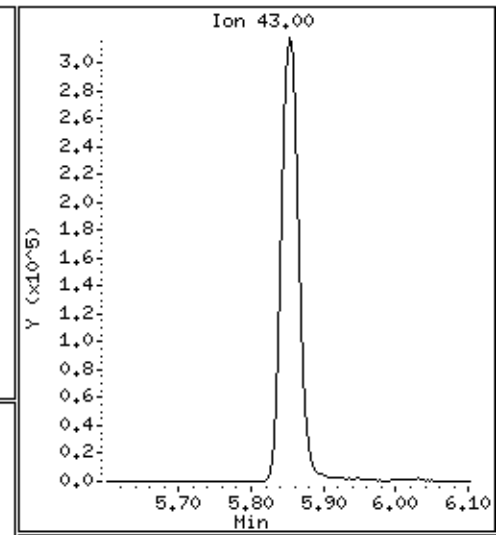
Column phase: DB-624

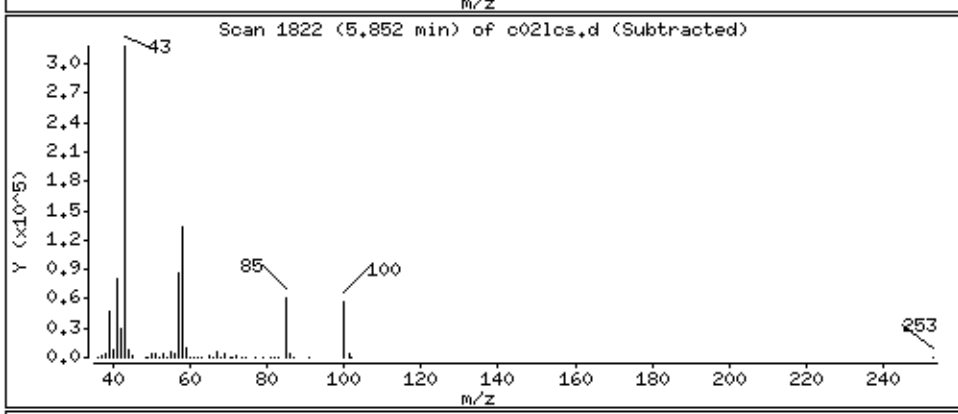
Column diameter: 0.18

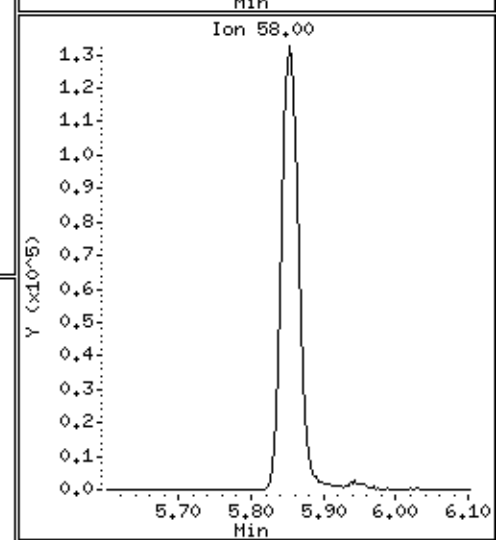
56 4-Methyl-2-Pentanone

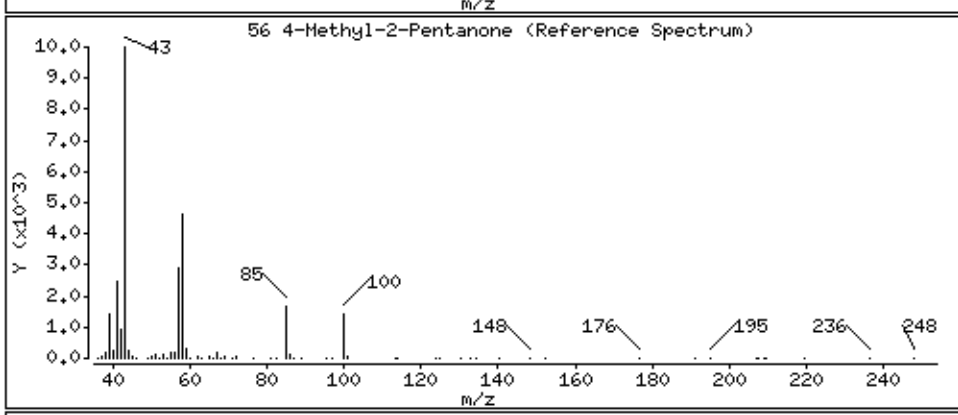
Concentration: 230 ppb

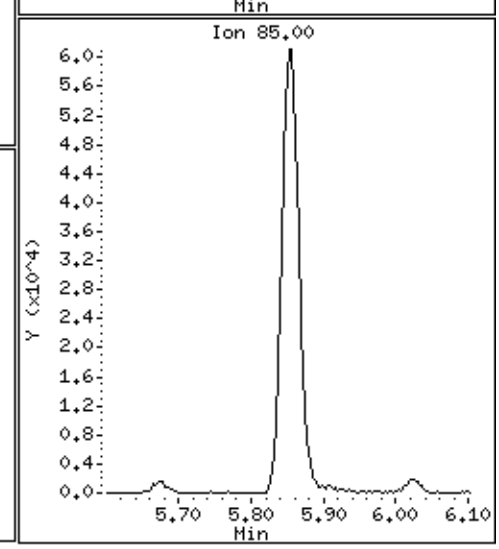


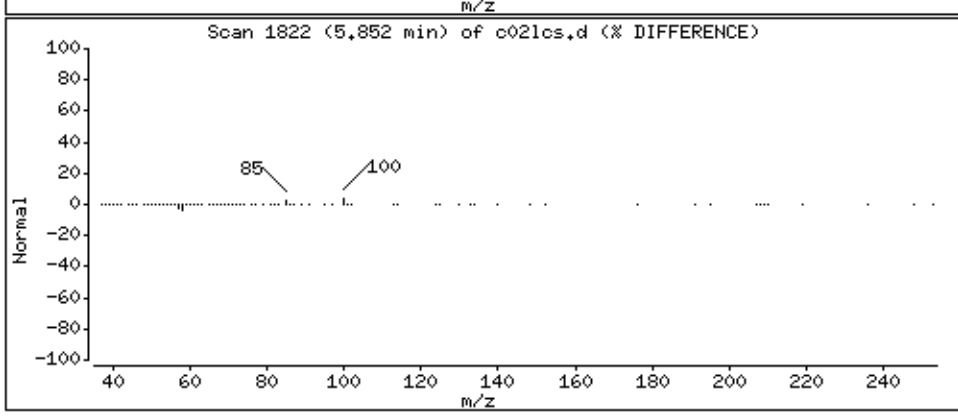












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

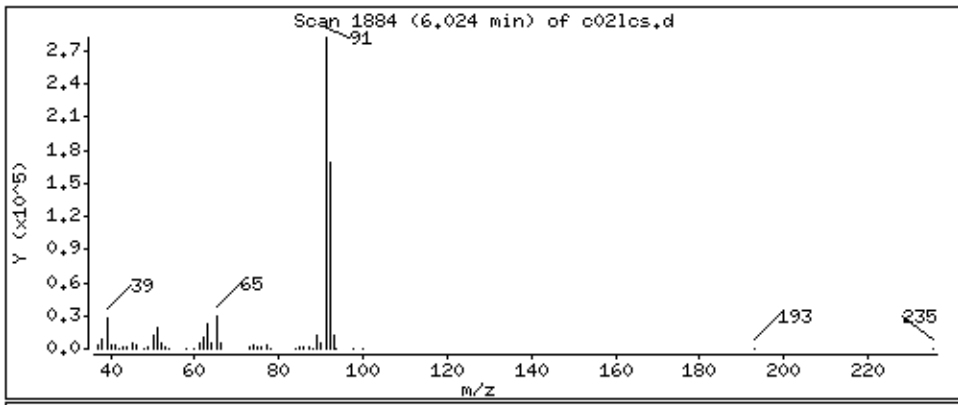
Operator: dae

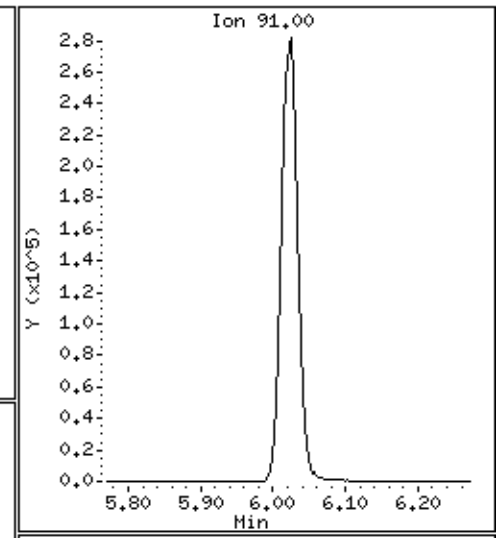
Column phase: DB-624

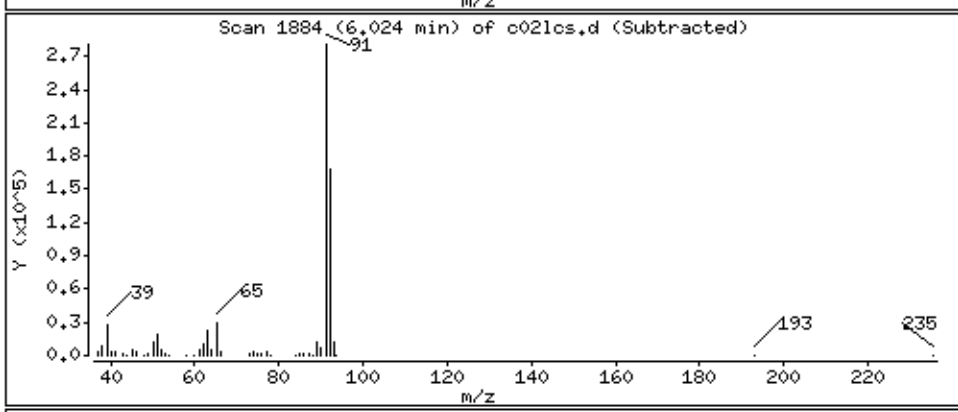
Column diameter: 0.18

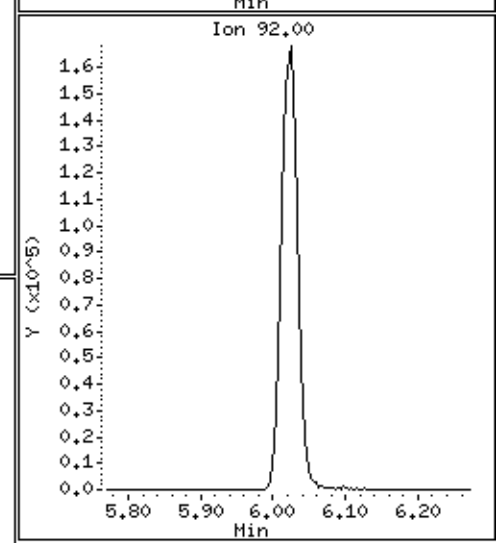
58 Toluene

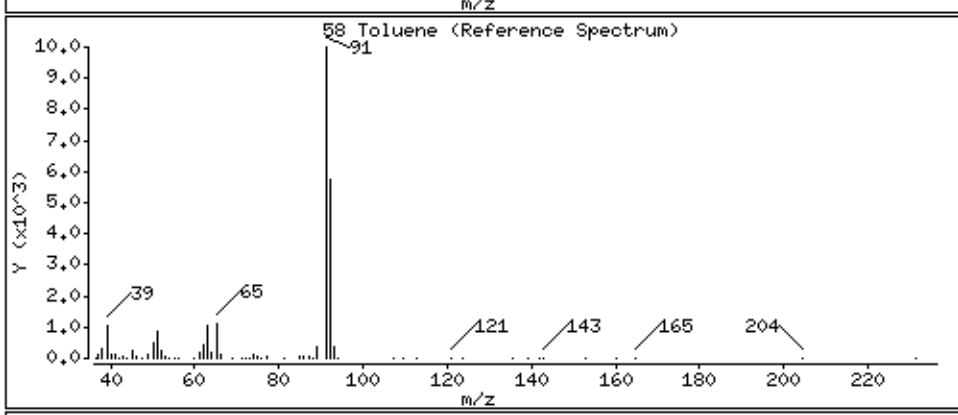
Concentration: 50.8 ppb

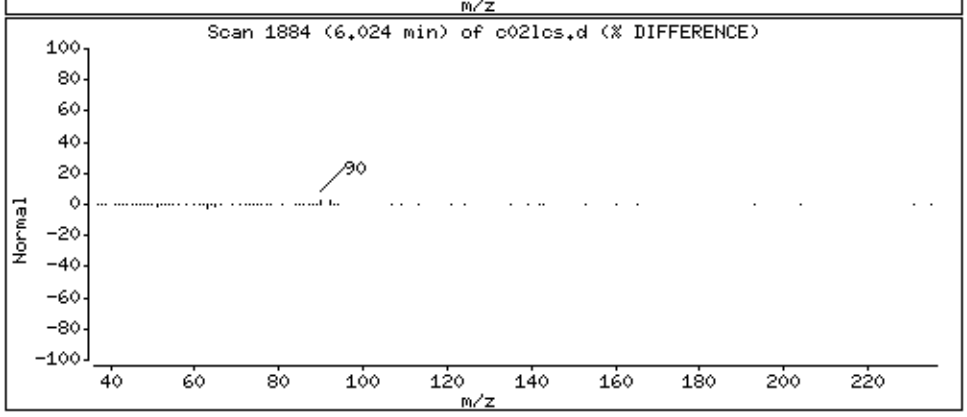












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

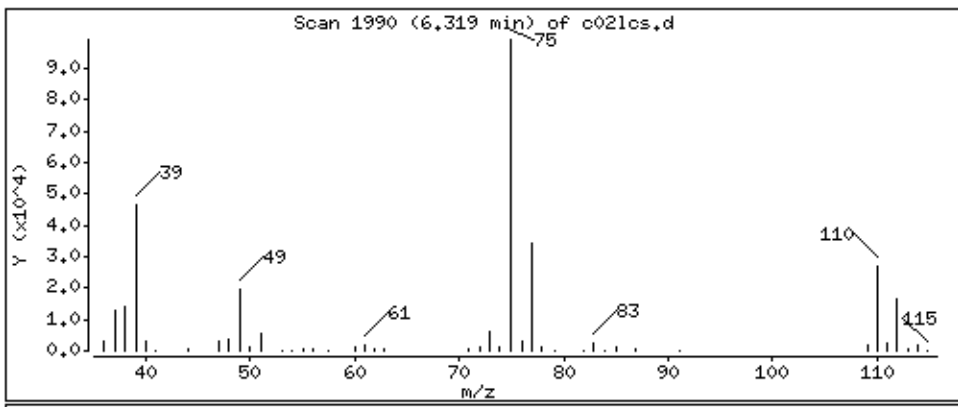
Operator: dae

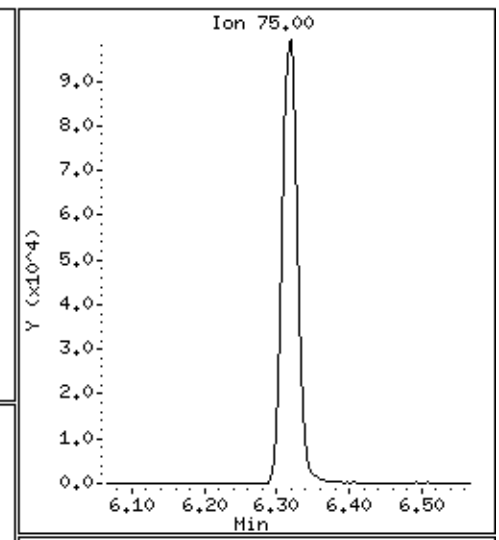
Column phase: DB-624

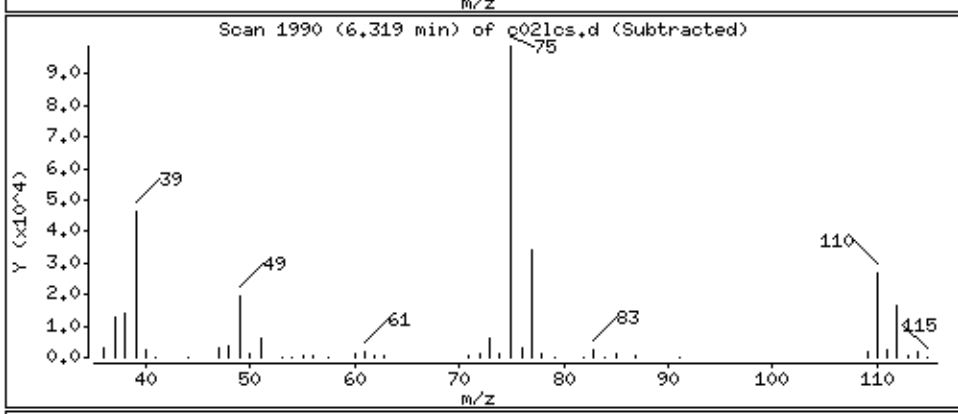
Column diameter: 0.18

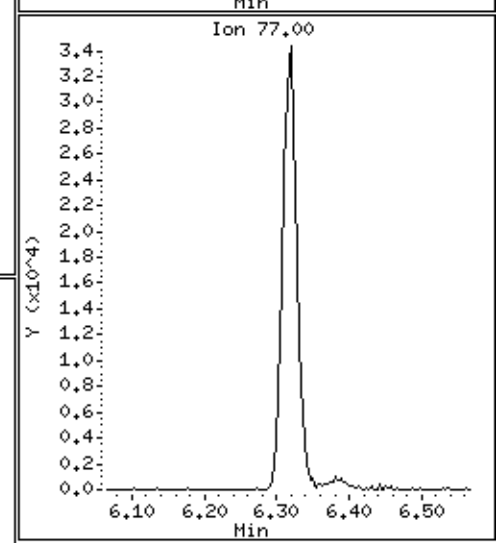
59 trans-1,3-Dichloropropene

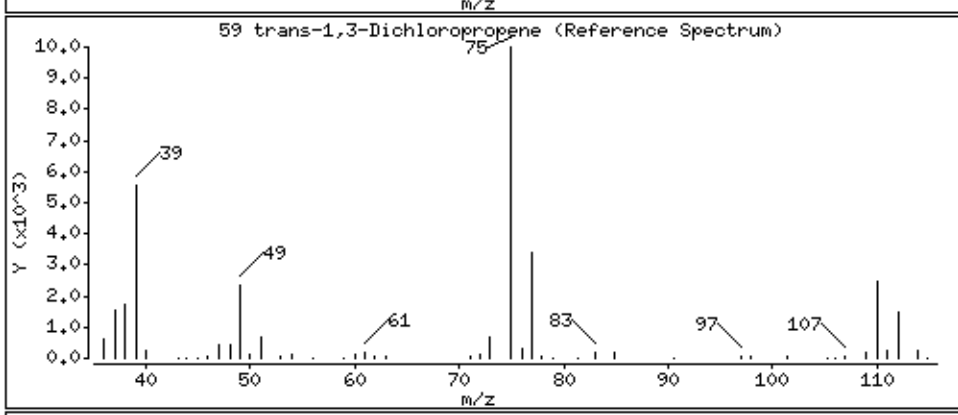
Concentration: 46.8 ppb

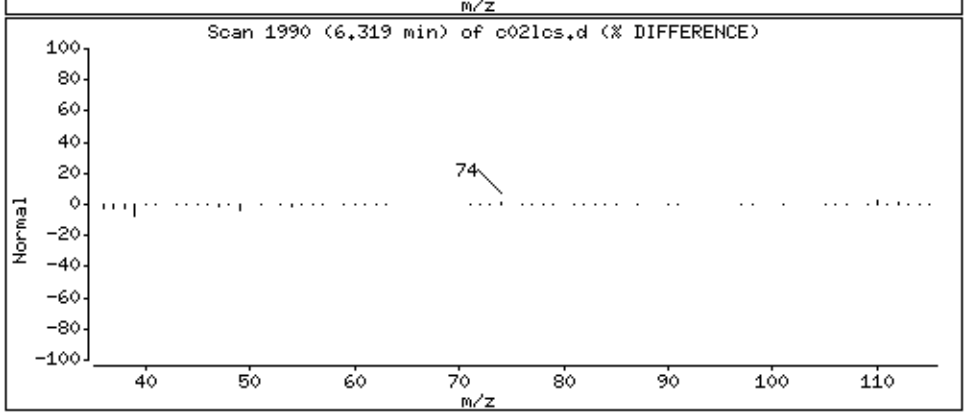












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

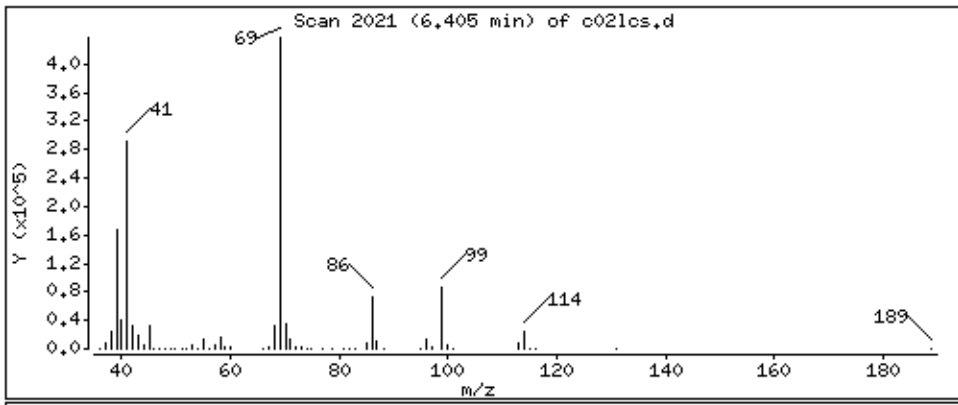
Operator: dae

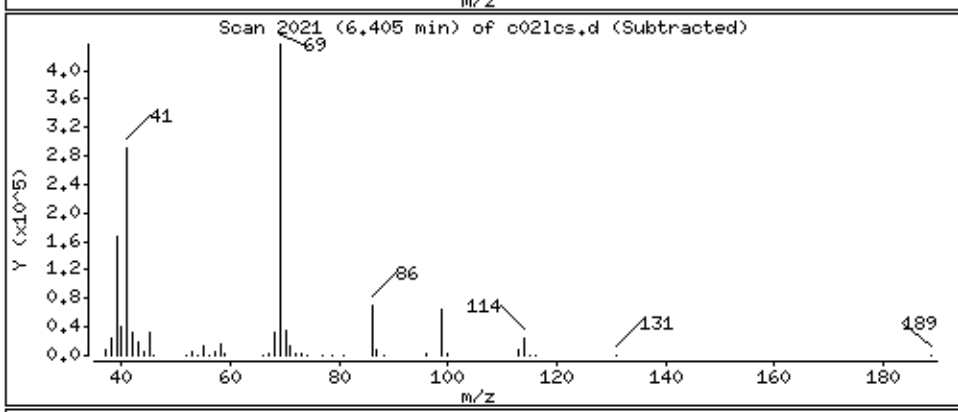
Column phase: DB-624

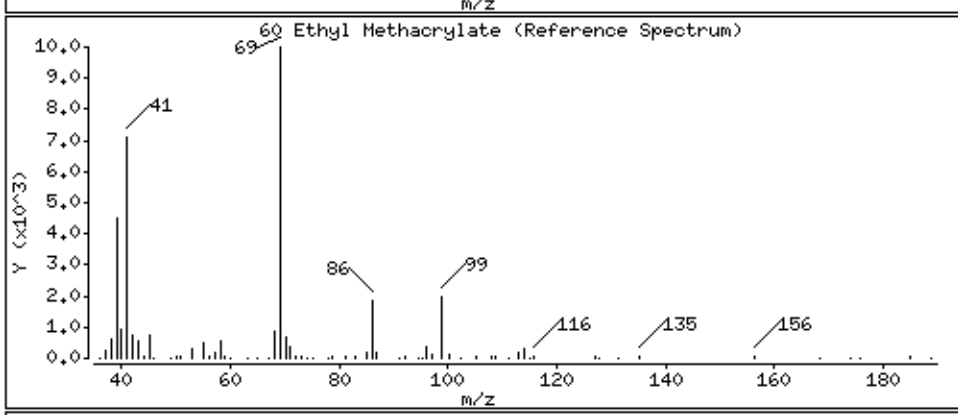
Column diameter: 0.18

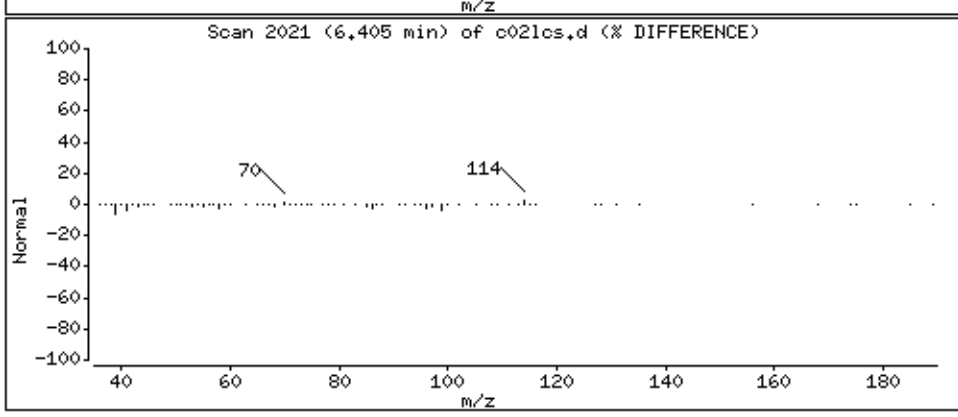
60 Ethyl Methacrylate

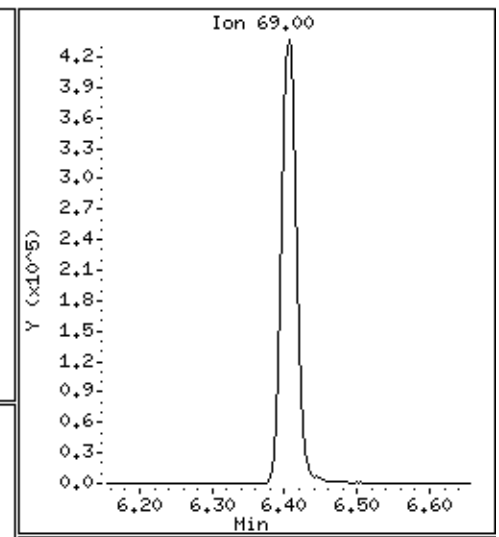
Concentration: 201 ppb

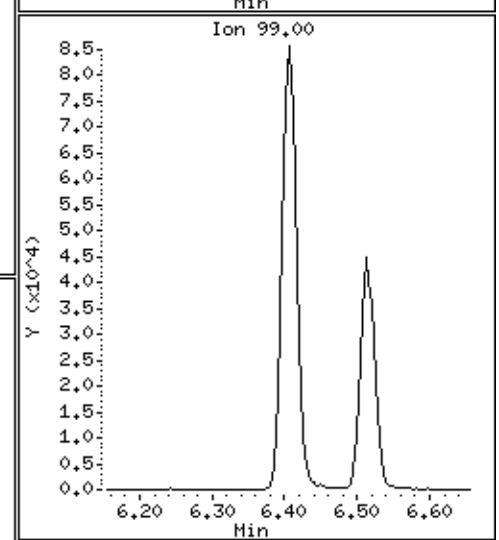


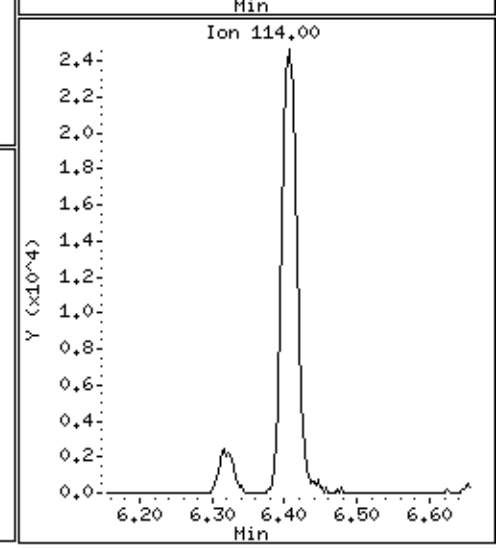












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

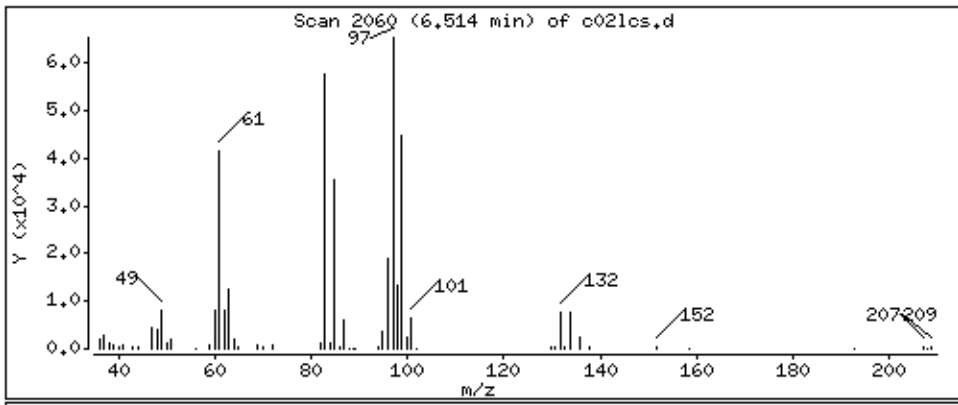
Operator: dae

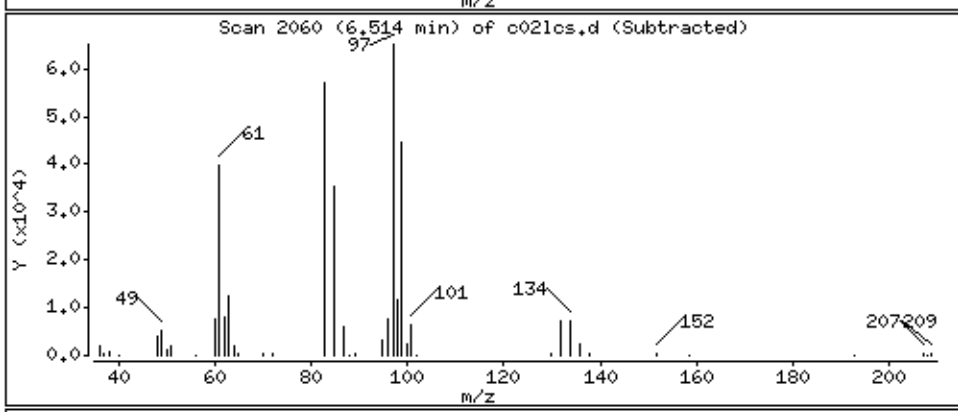
Column phase: DB-624

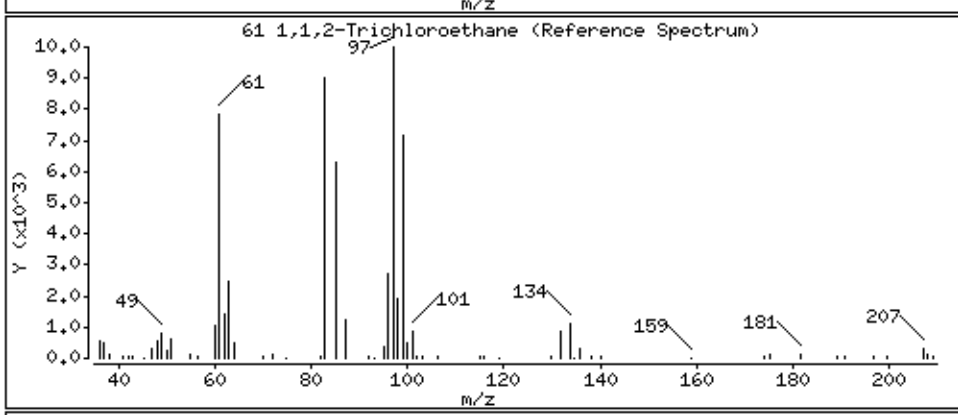
Column diameter: 0.18

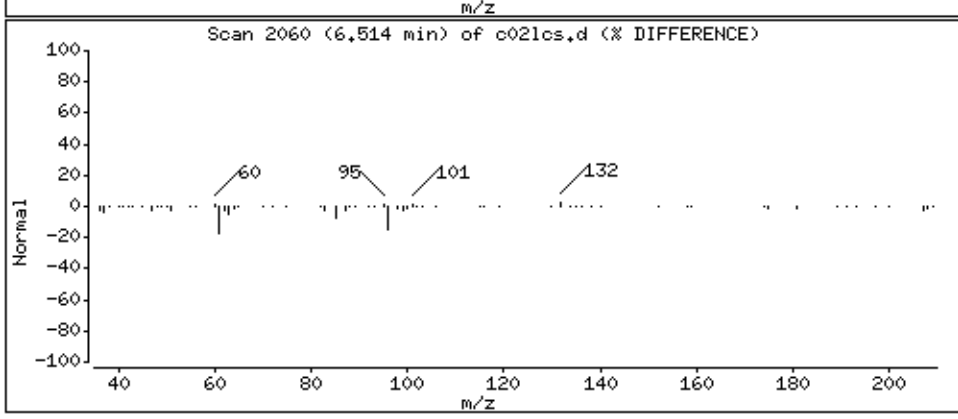
61 1,1,2-Trichloroethane

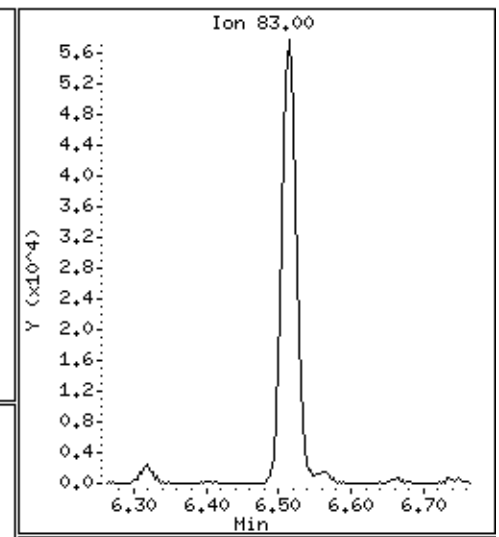
Concentration: 50.9 ppb

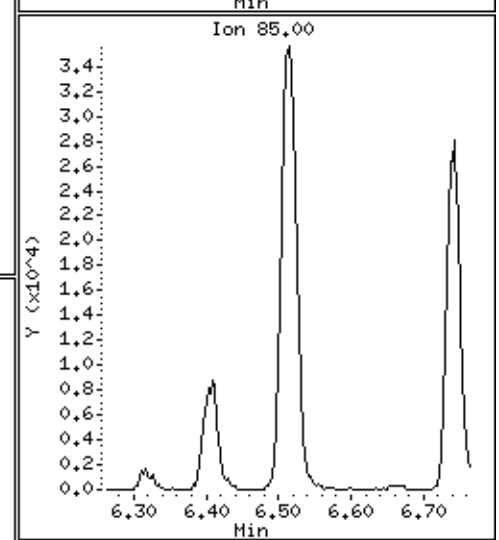


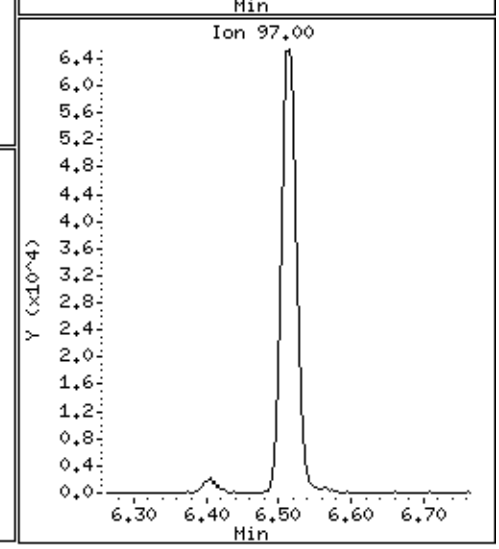












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

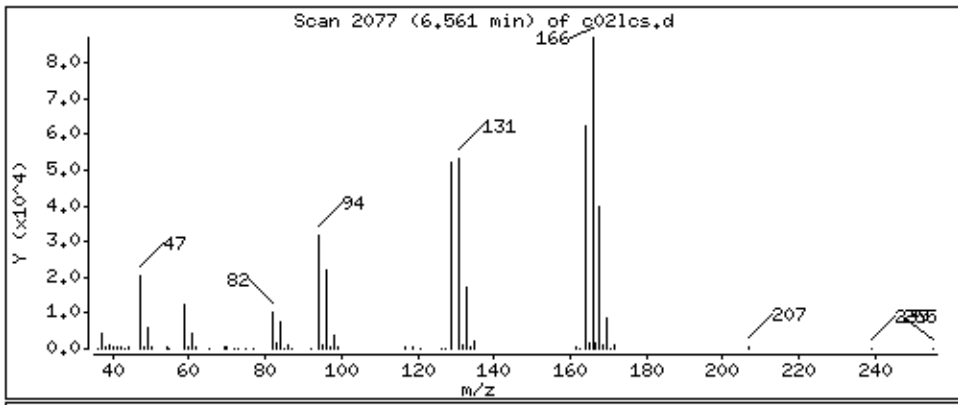
Operator: dae

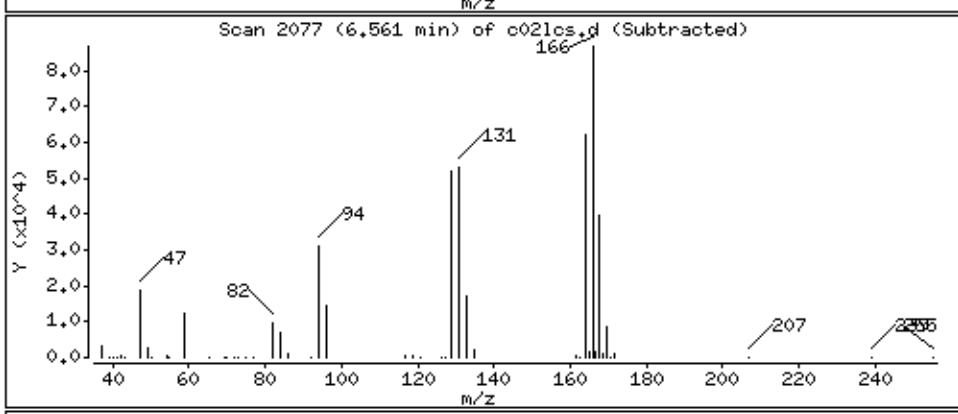
Column phase: DB-624

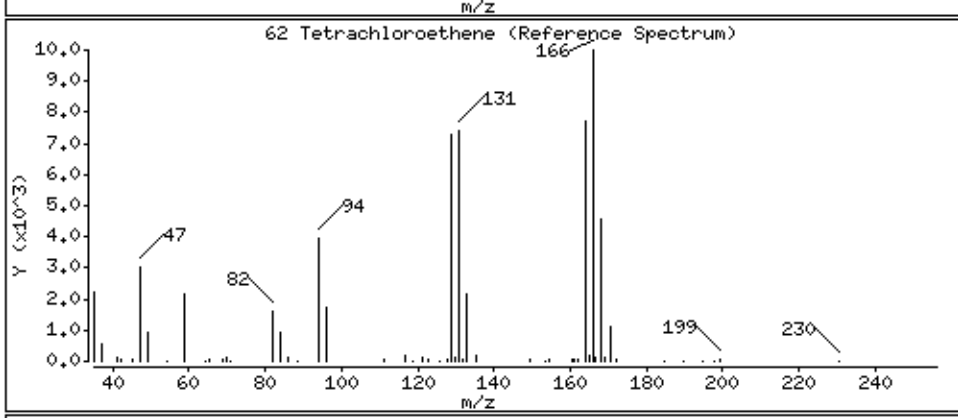
Column diameter: 0.18

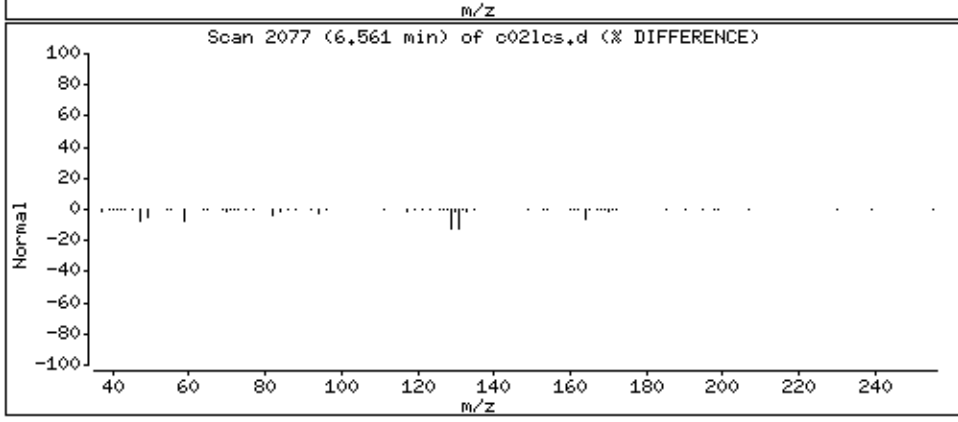
62 Tetrachloroethene

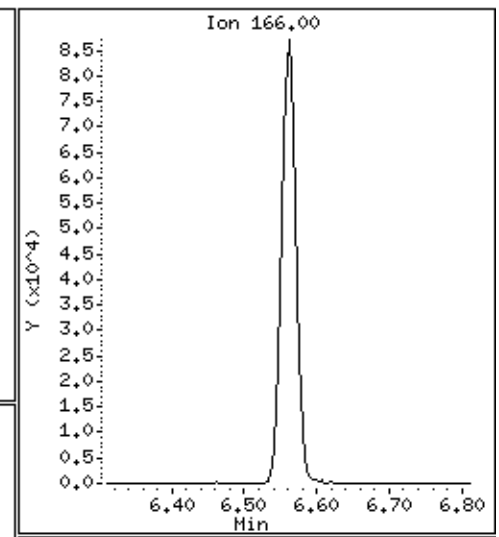
Concentration: 44.1 ppb

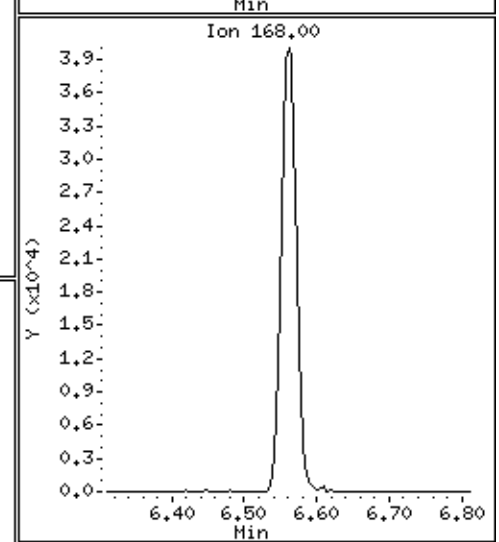


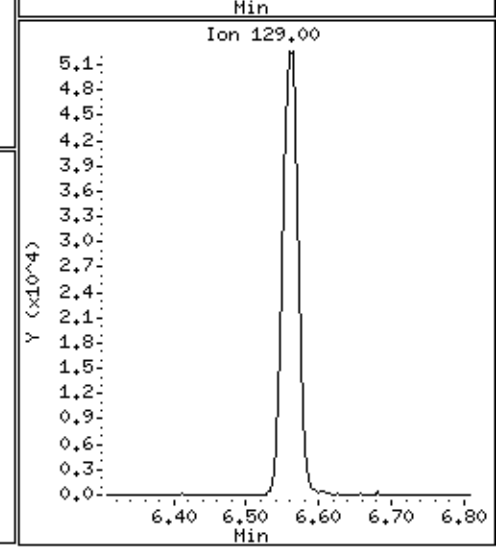












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

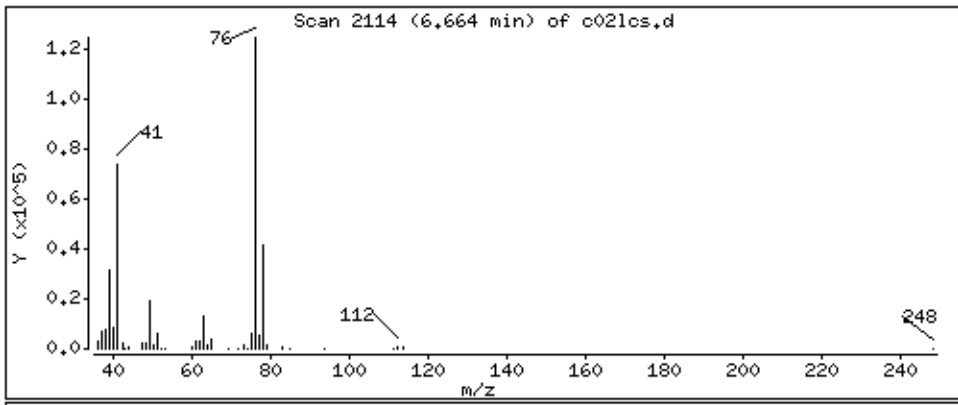
Operator: dae

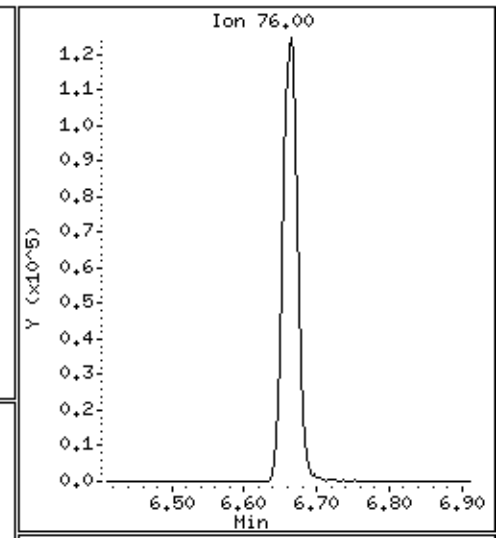
Column phase: DB-624

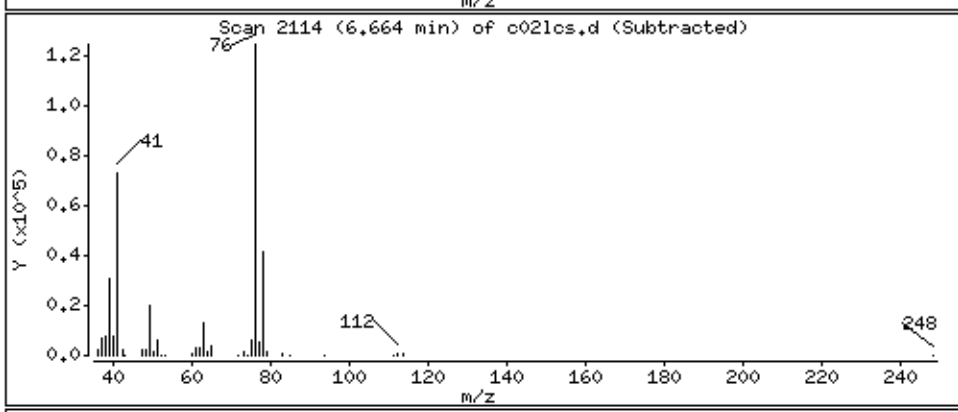
Column diameter: 0.18

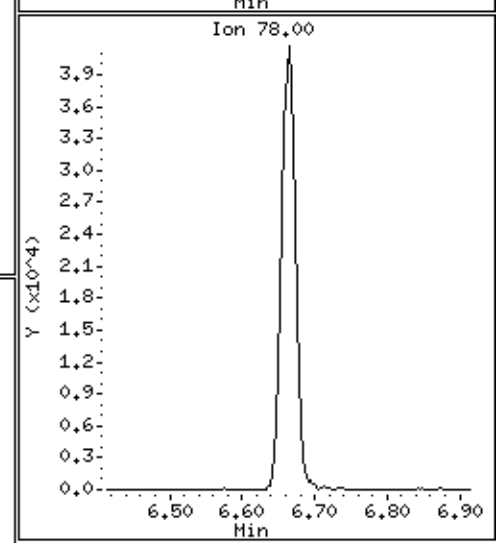
63 1,3-Dichloropropane

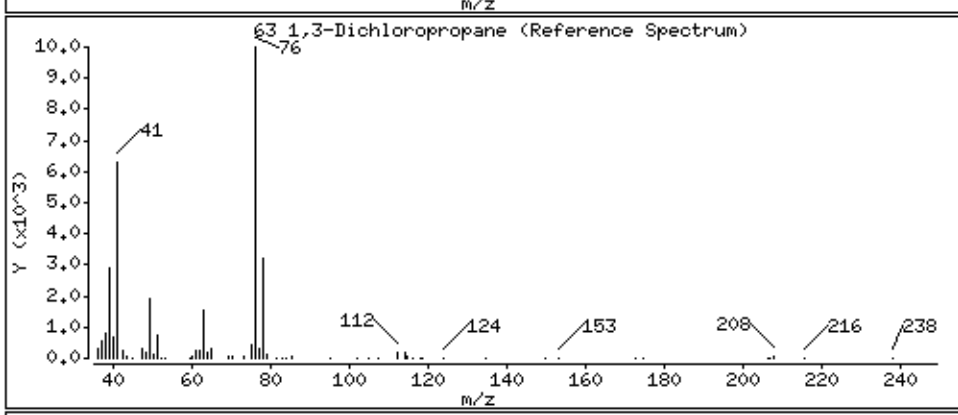
Concentration: 53.2 ppb

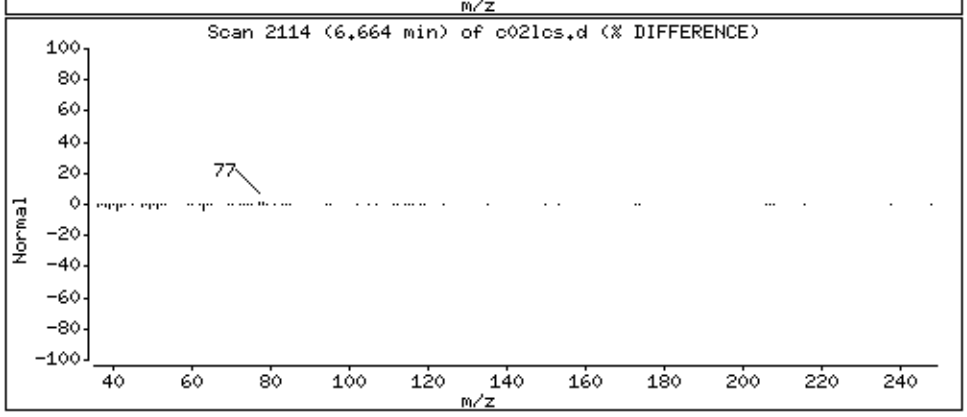












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

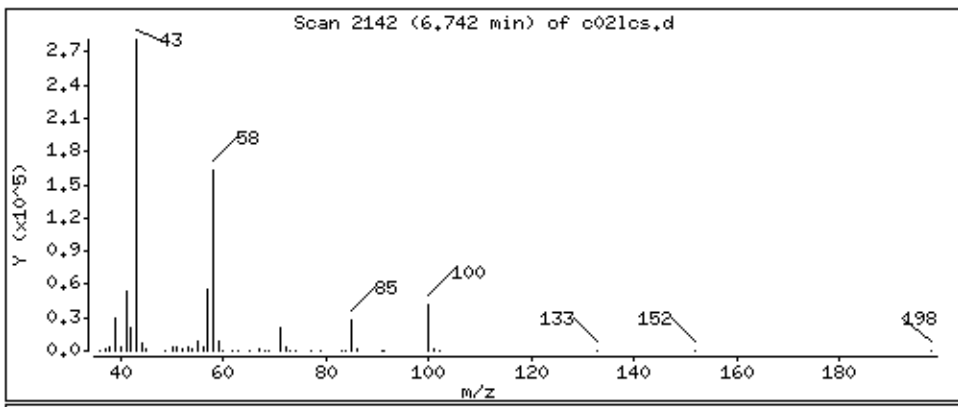
Operator: dae

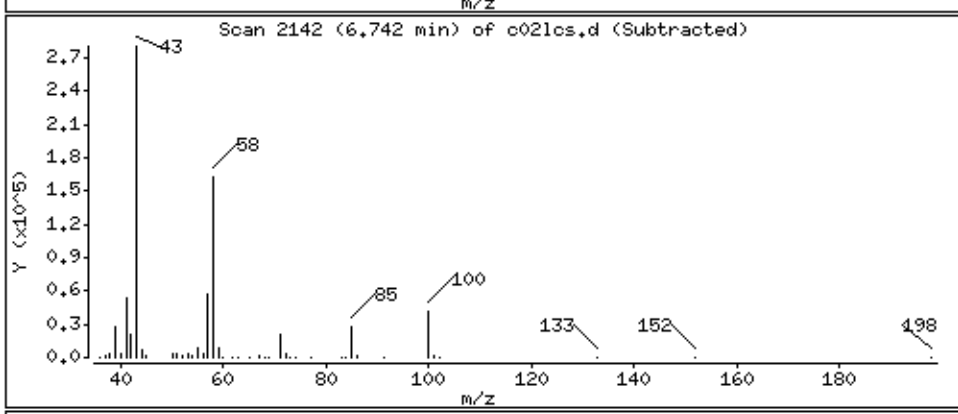
Column phase: DB-624

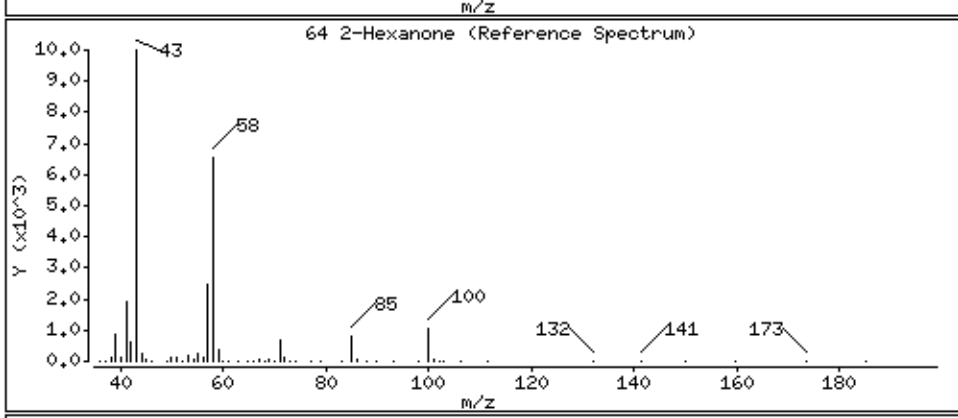
Column diameter: 0.18

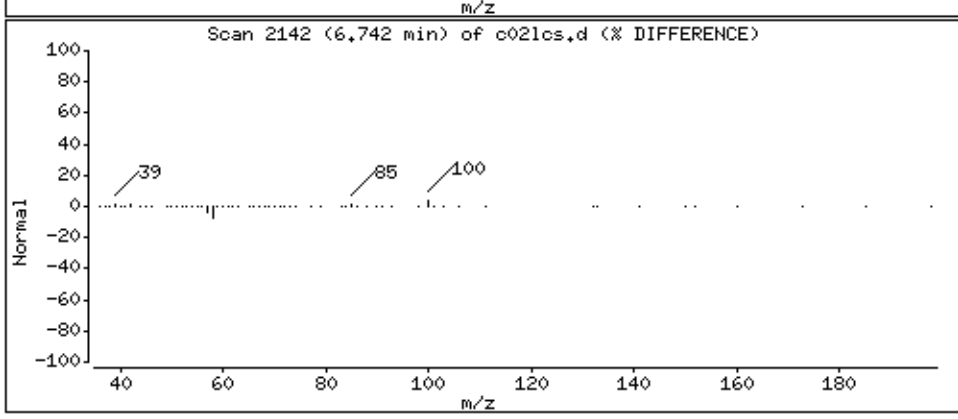
64 2-Hexanone

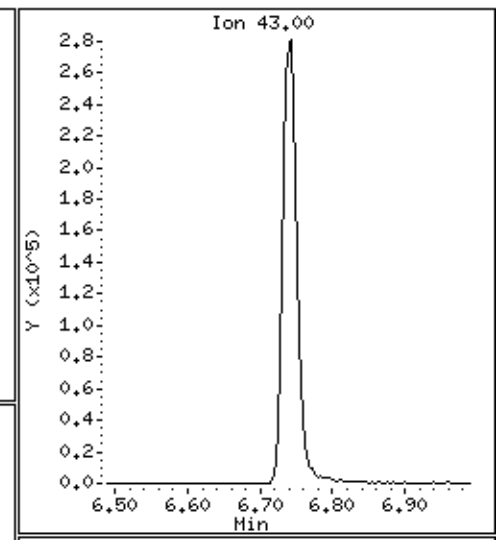
Concentration: 250 ppb

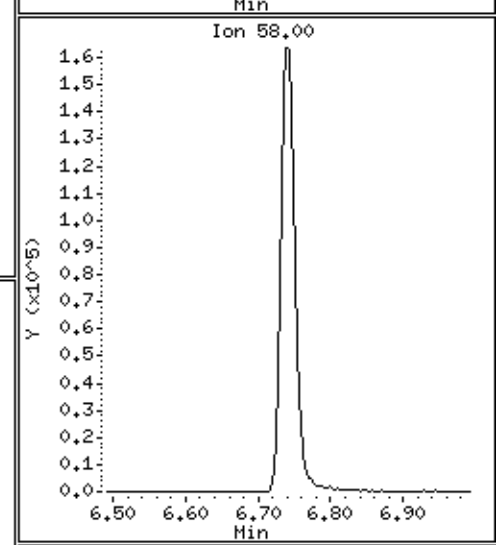


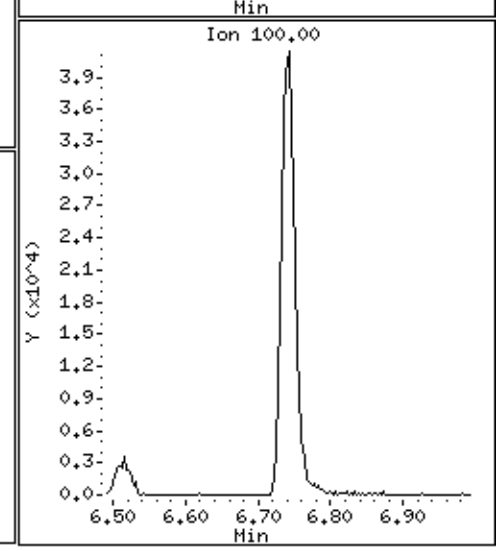












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

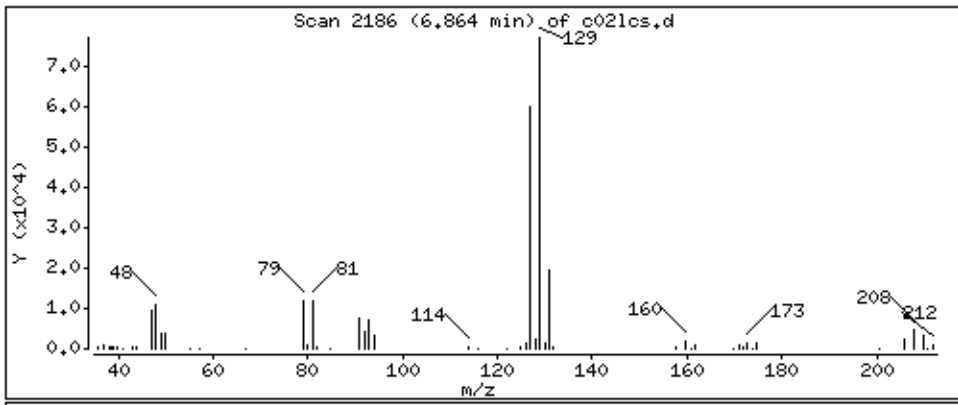
Operator: dae

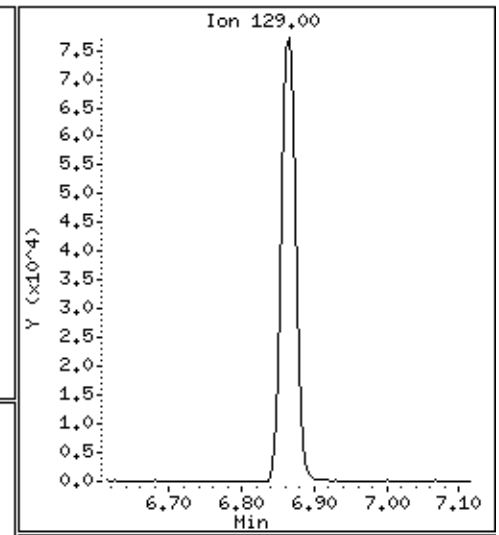
Column phase: DB-624

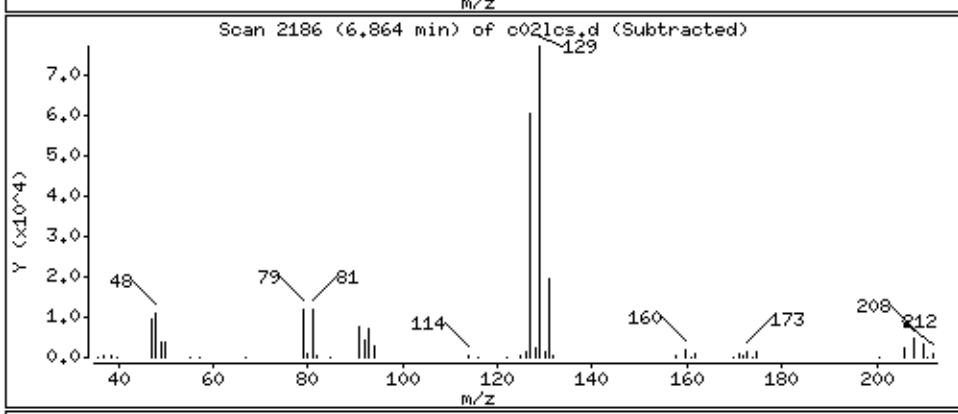
Column diameter: 0.18

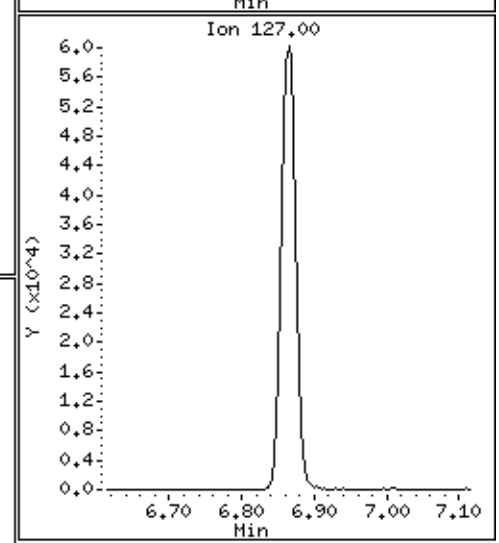
65 Dibromochloromethane

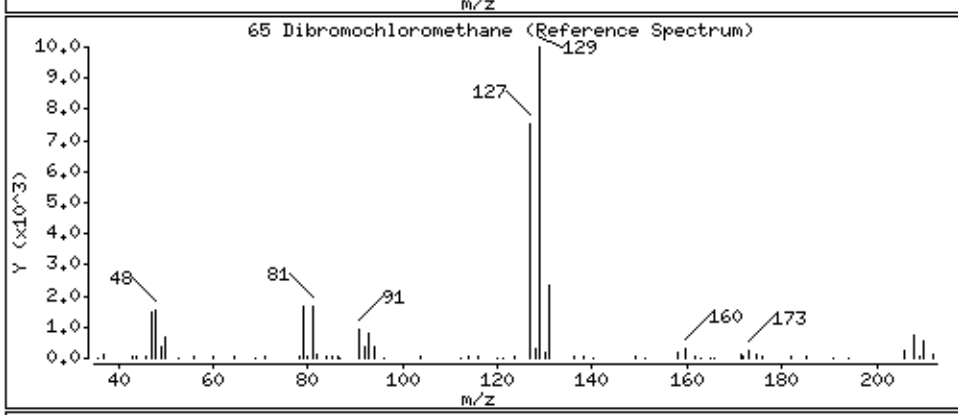
Concentration: 47.4 ppb

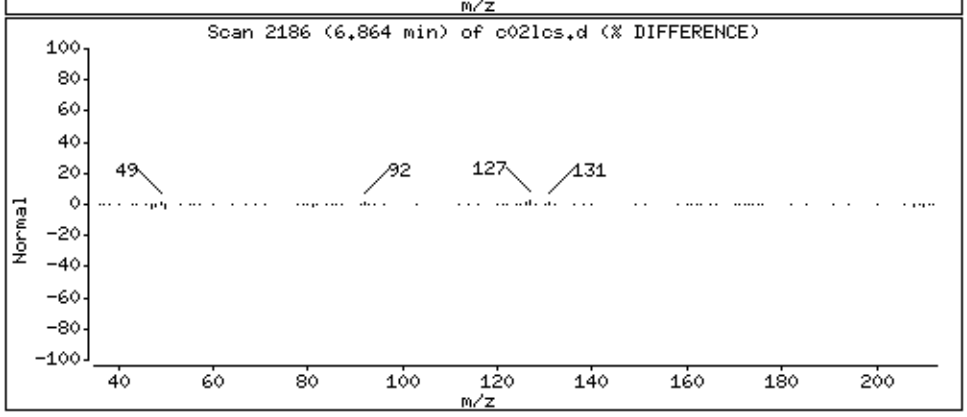












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

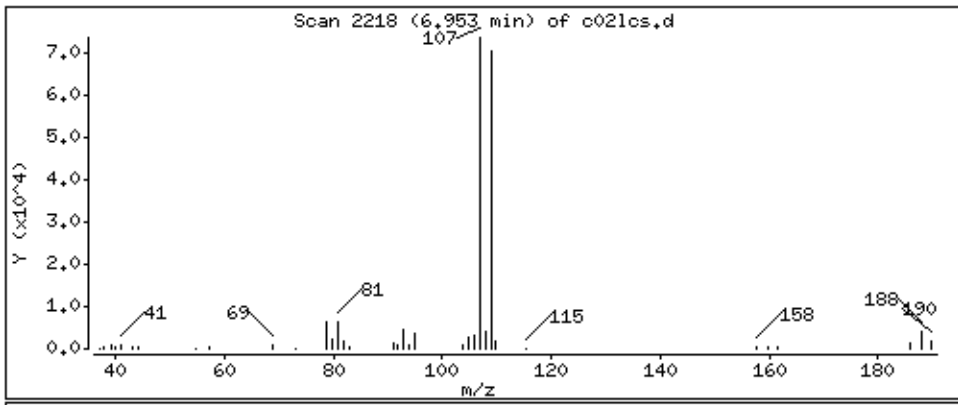
Operator: dae

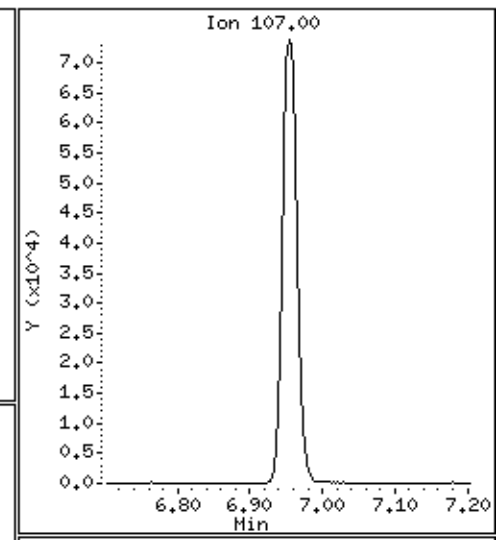
Column phase: DB-624

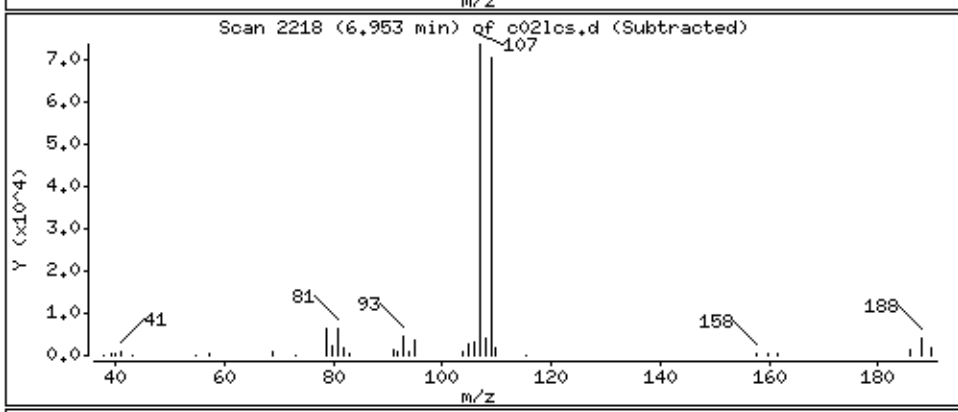
Column diameter: 0.18

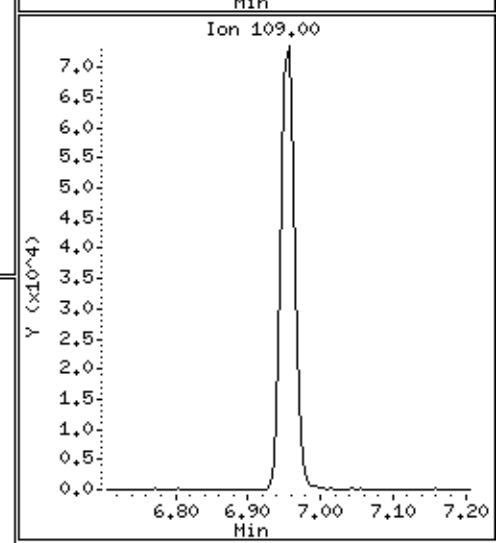
66 1,2-Dibromoethane

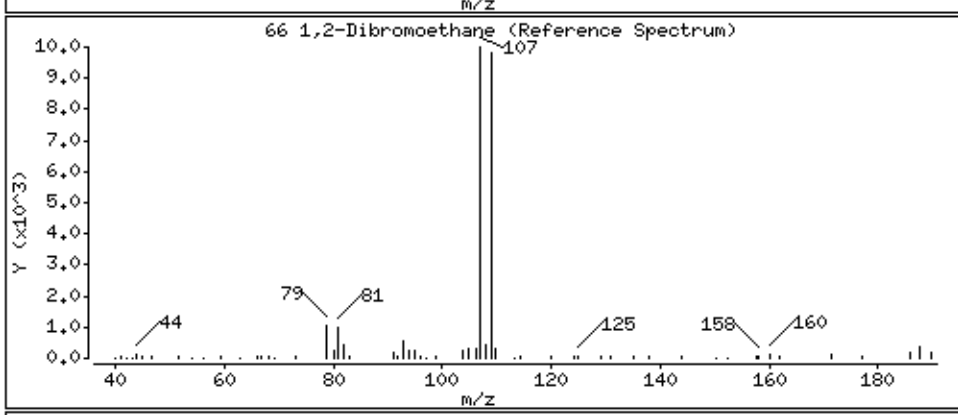
Concentration: 50.6 ppb

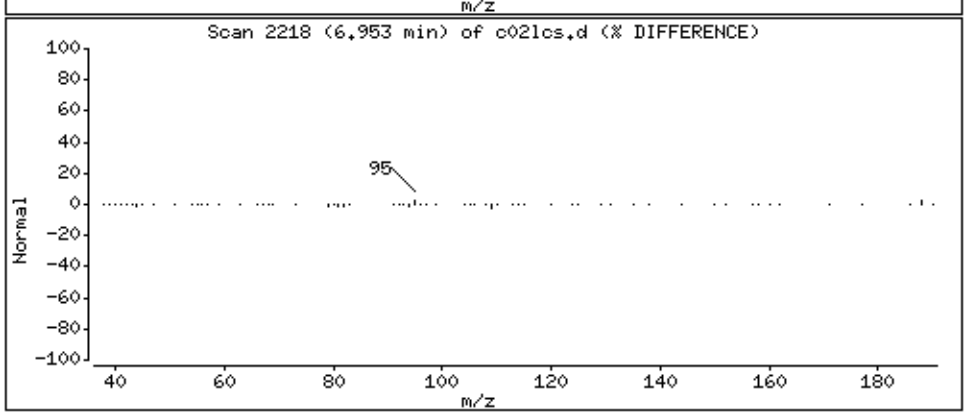












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

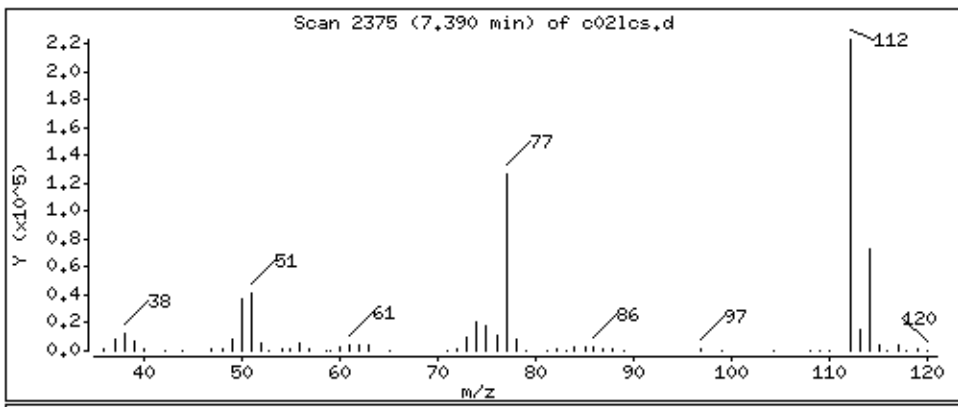
Operator: dae

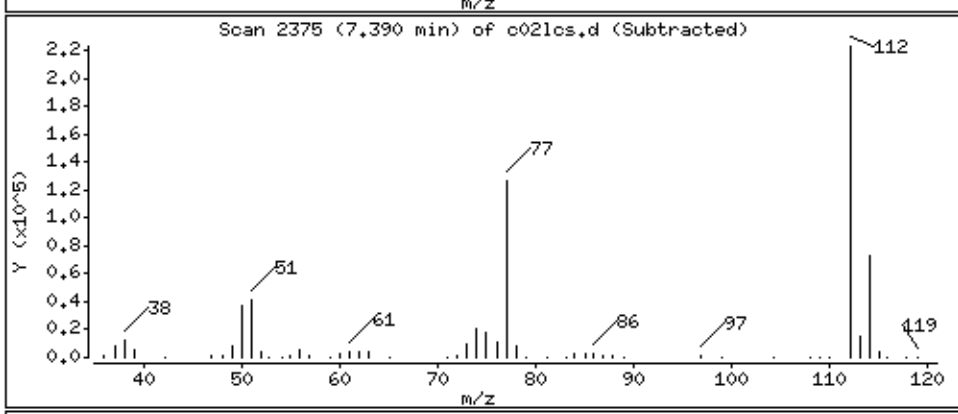
Column phase: DB-624

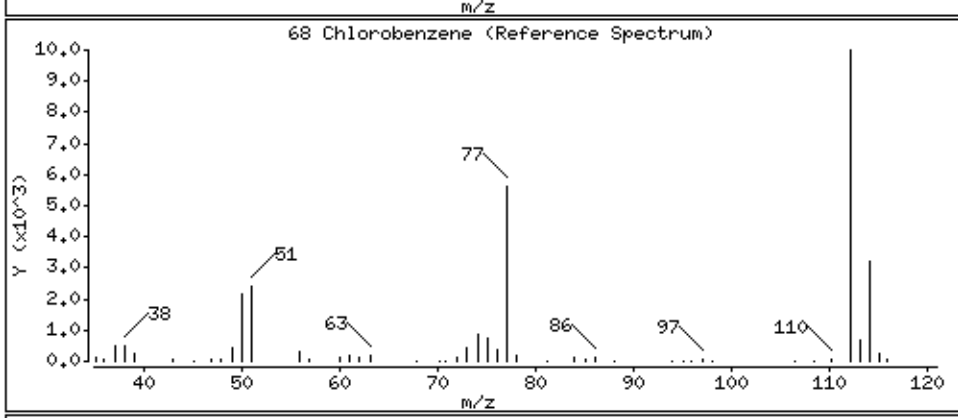
Column diameter: 0.18

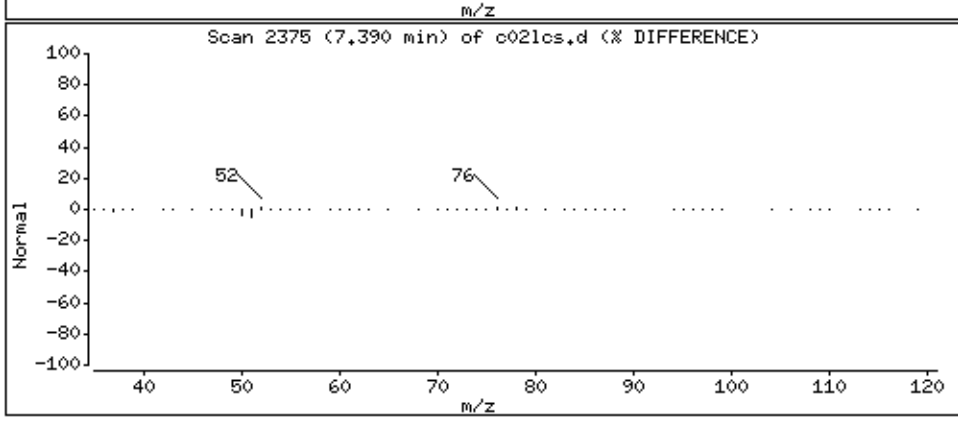
68 Chlorobenzene

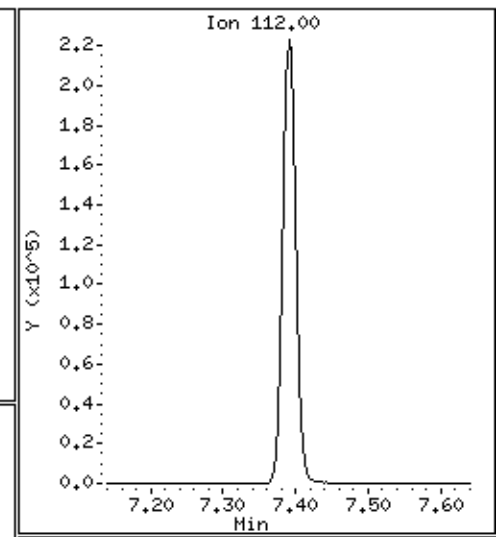
Concentration: 49.6 ppb

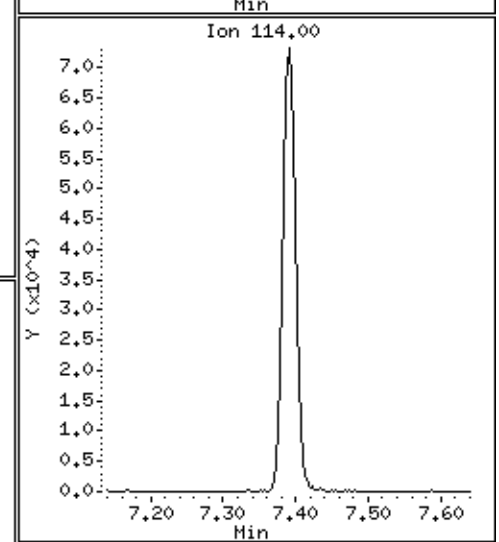


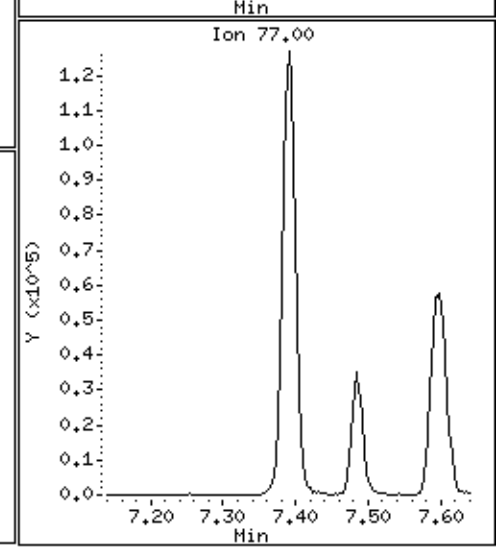












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

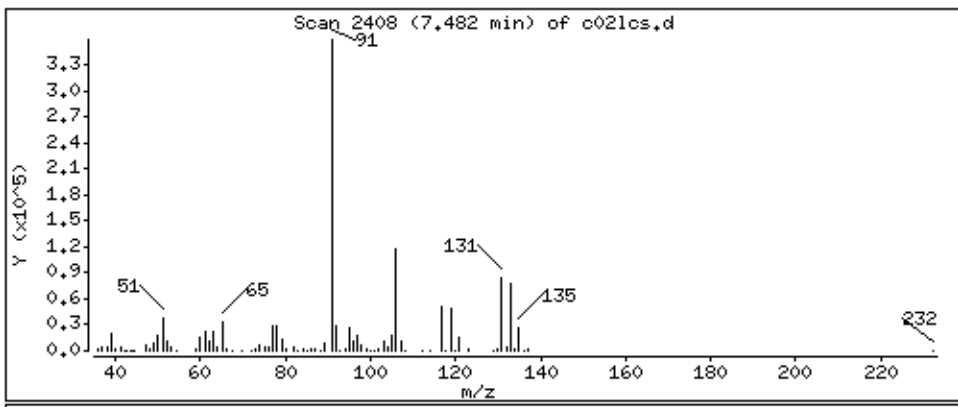
Operator: dae

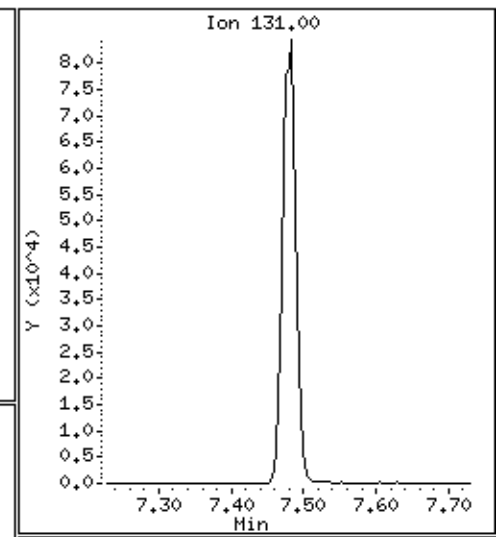
Column phase: DB-624

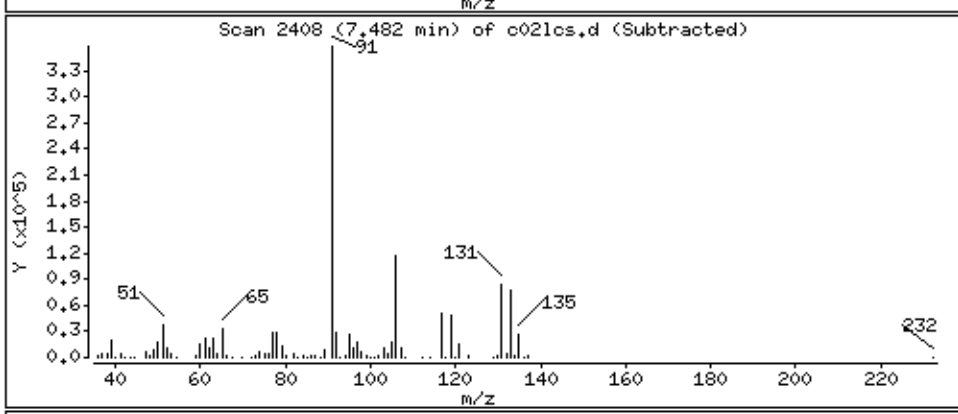
Column diameter: 0.18

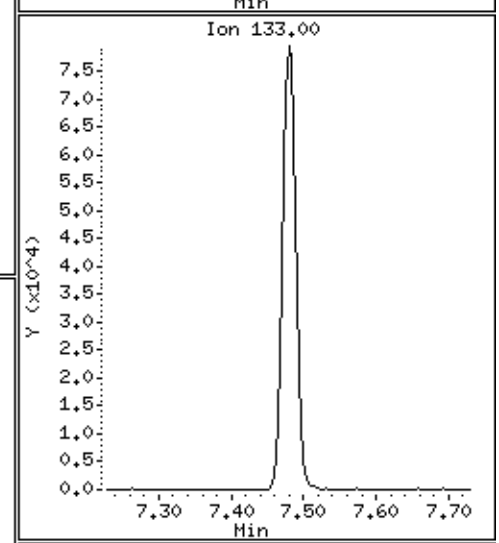
69 1,1,1,2-Tetrachloroethane

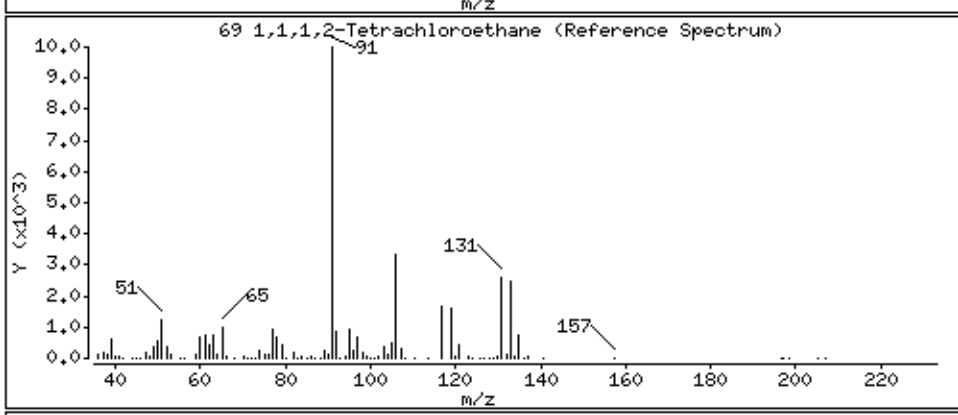
Concentration: 49.8 ppb

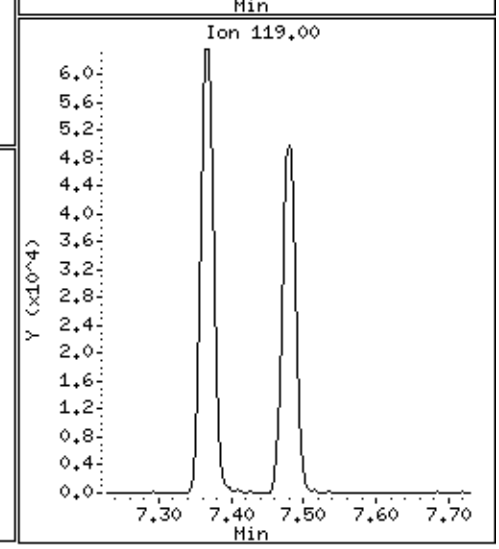


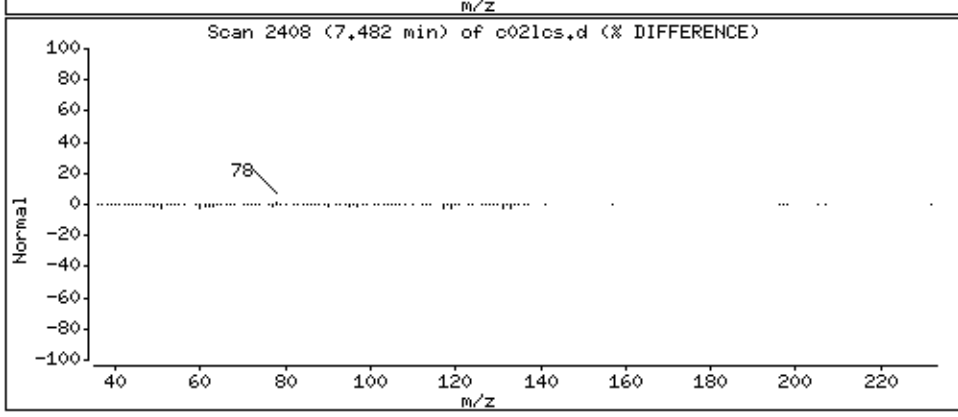












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

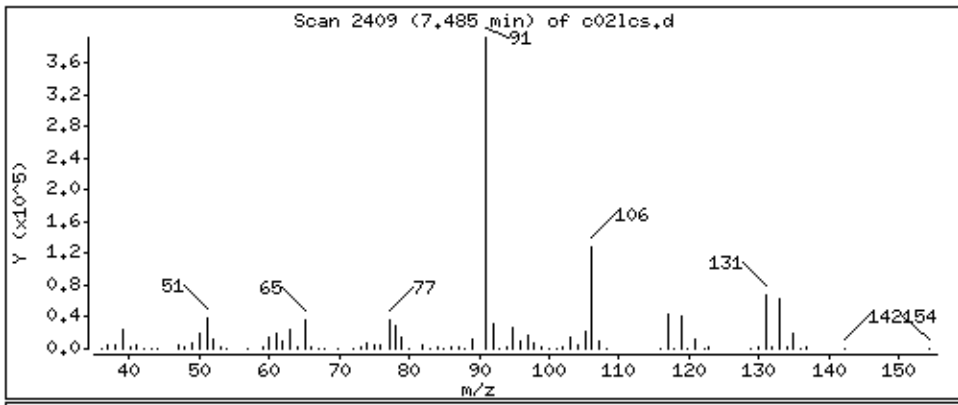
Operator: dae

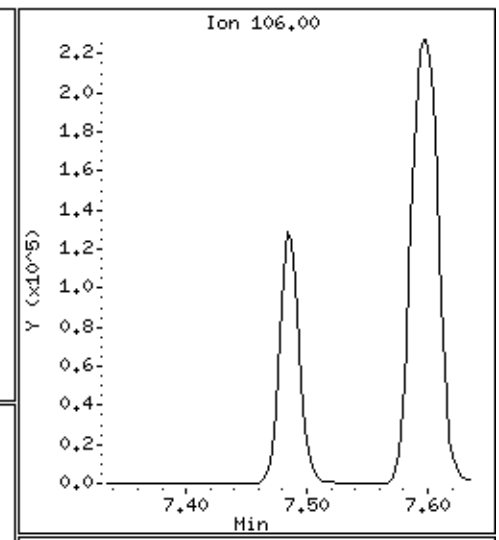
Column phase: DB-624

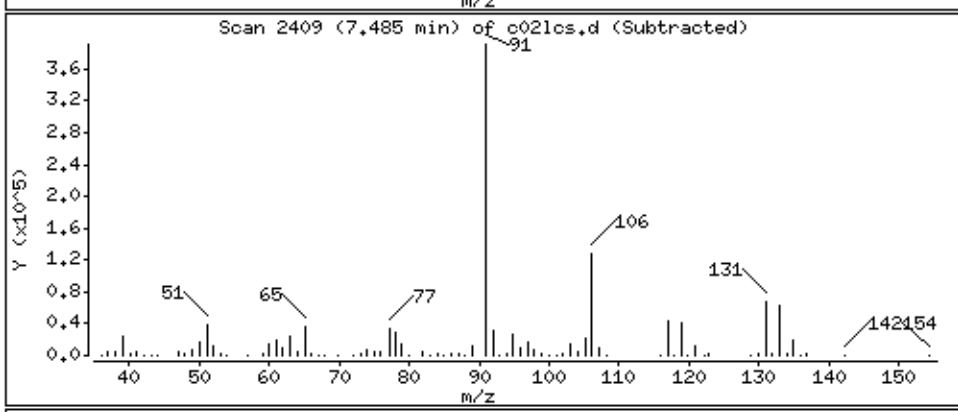
Column diameter: 0.18

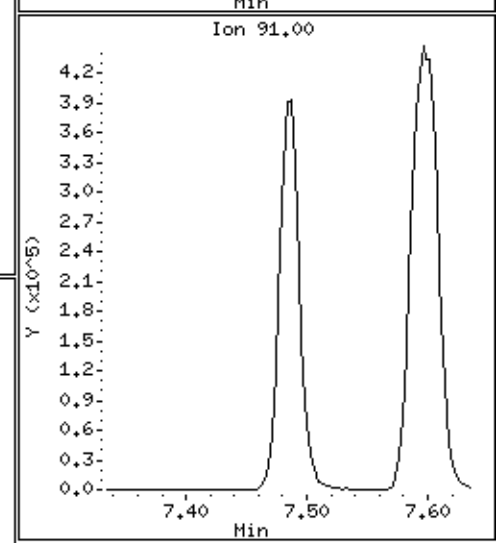
70 Ethylbenzene

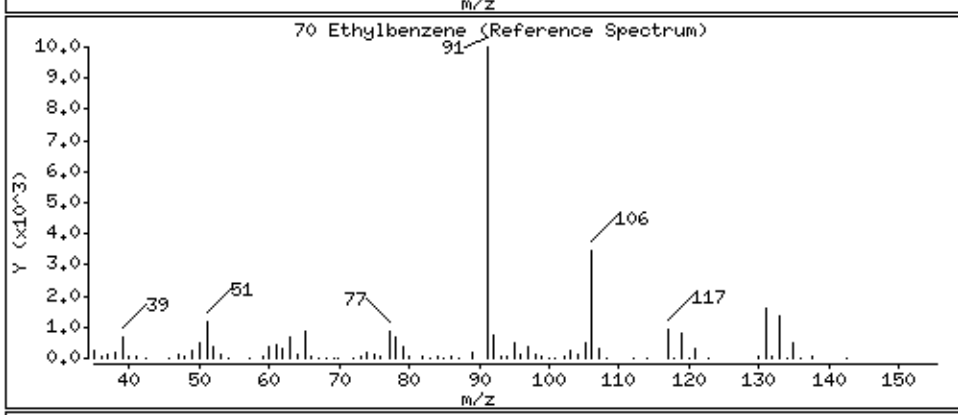
Concentration: 50.7 ppb

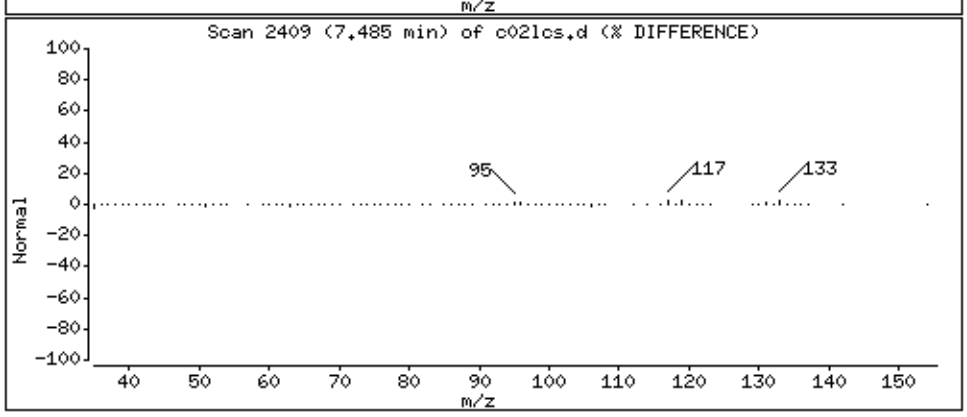












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

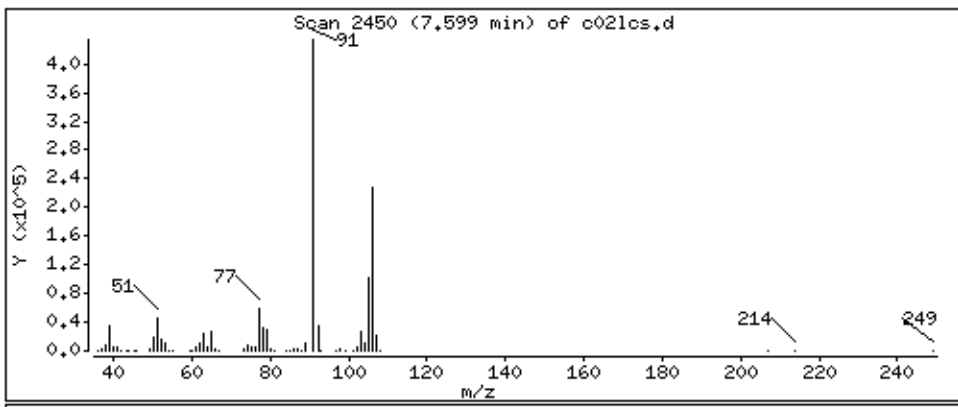
Operator: dae

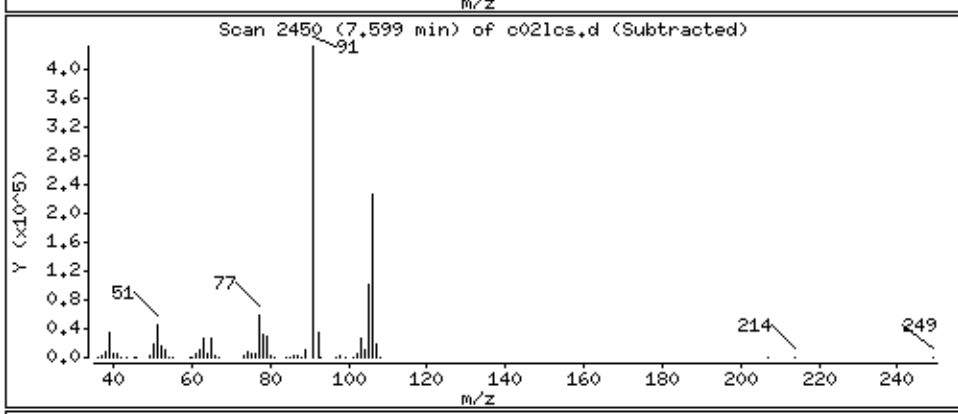
Column phase: DB-624

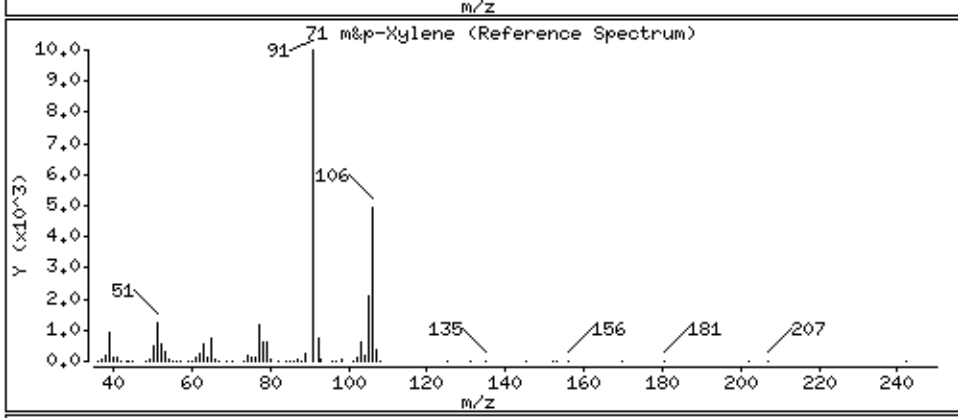
Column diameter: 0.18

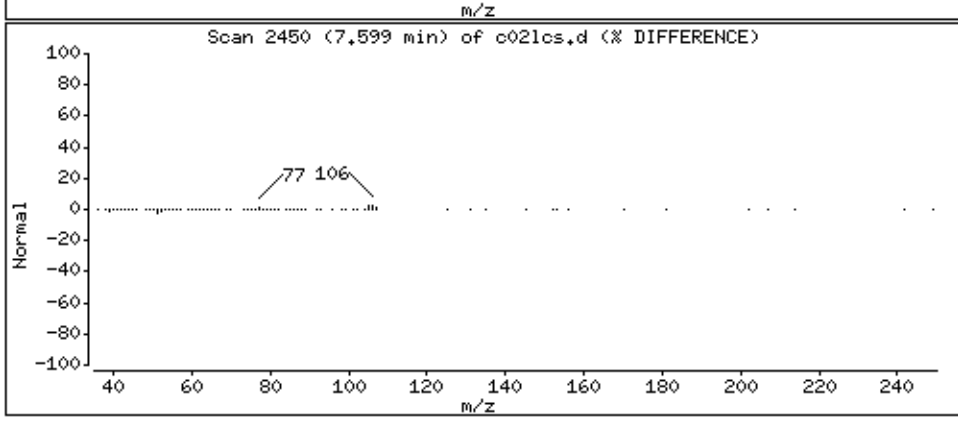
71 m&p-Xylene

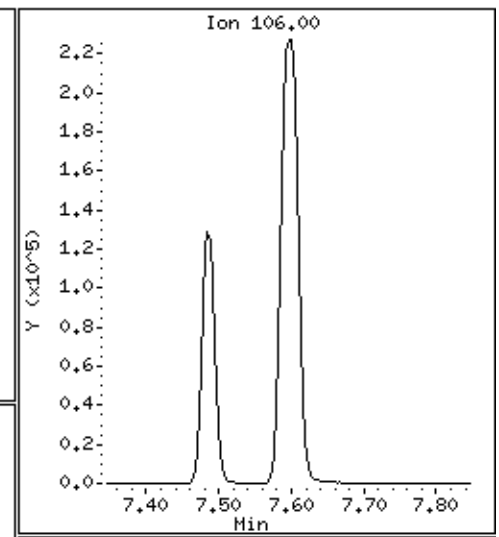
Concentration: 102 ppb

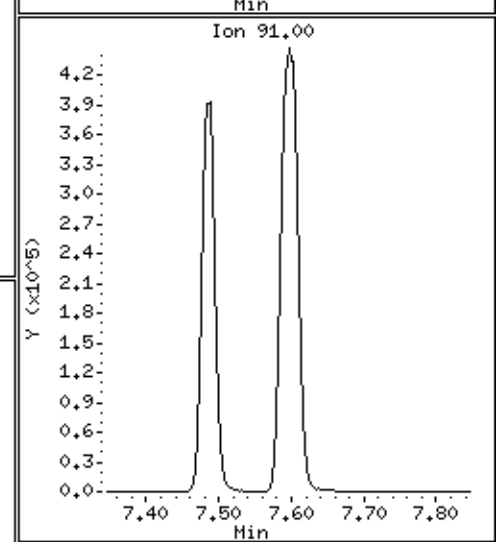


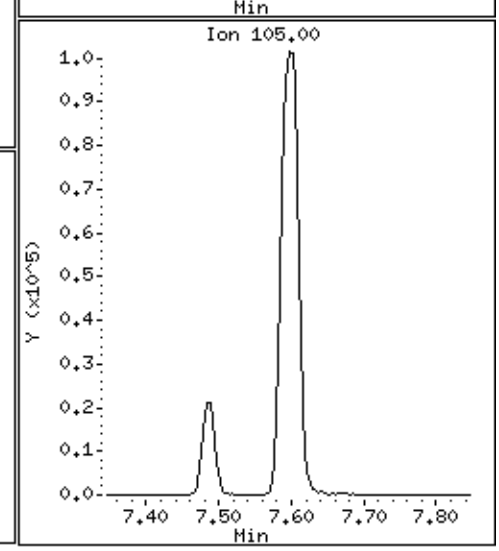












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

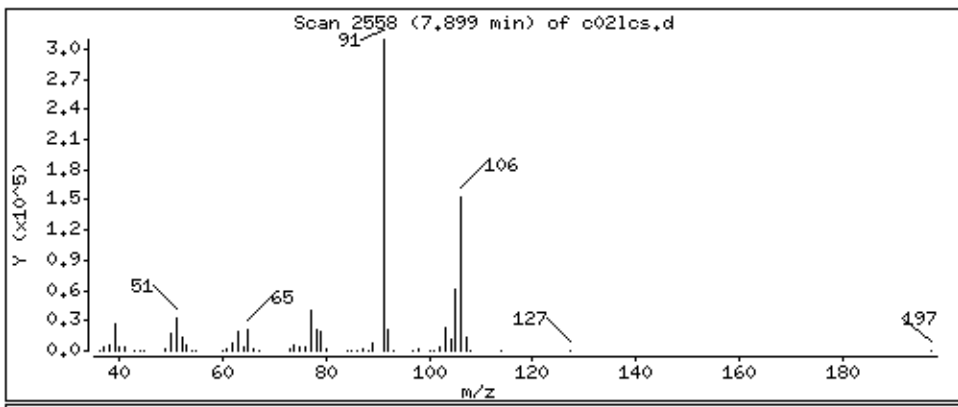
Operator: dae

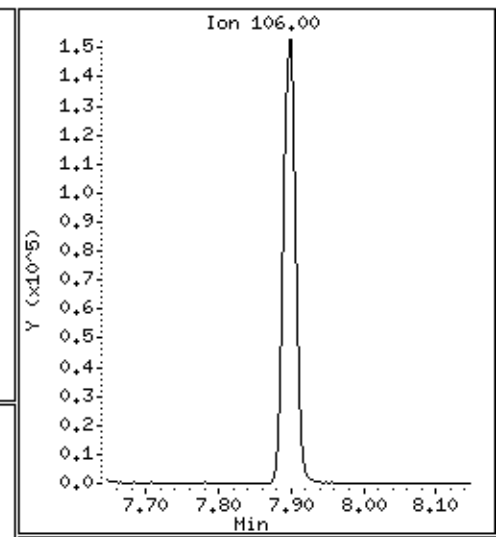
Column phase: DB-624

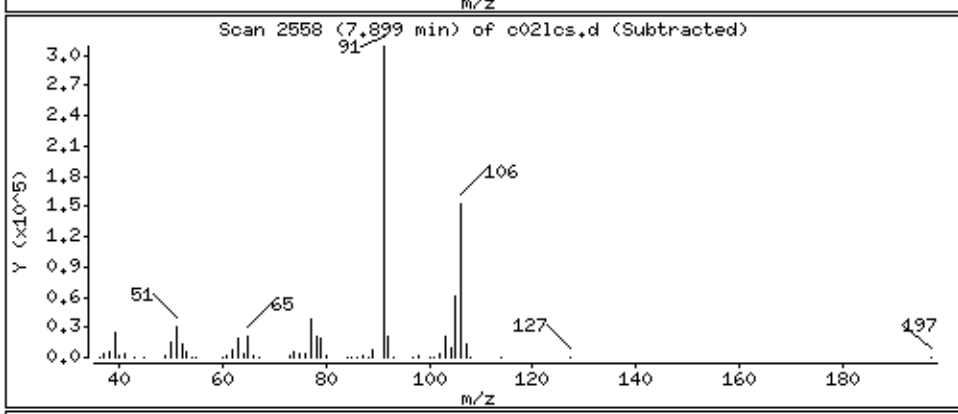
Column diameter: 0.18

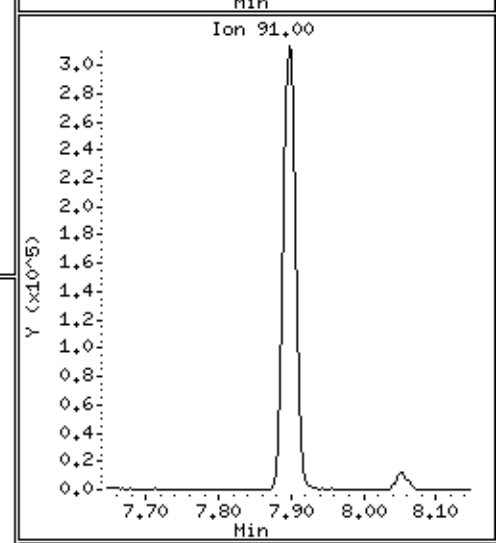
72 o-Xylene

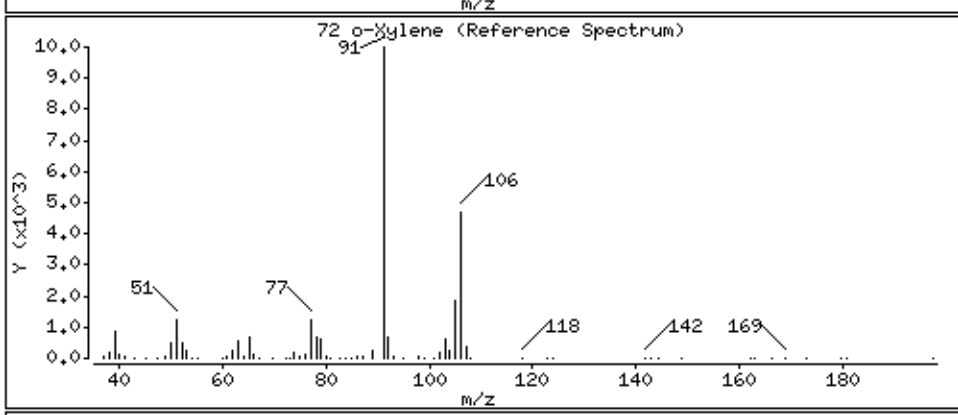
Concentration: 52.3 ppb

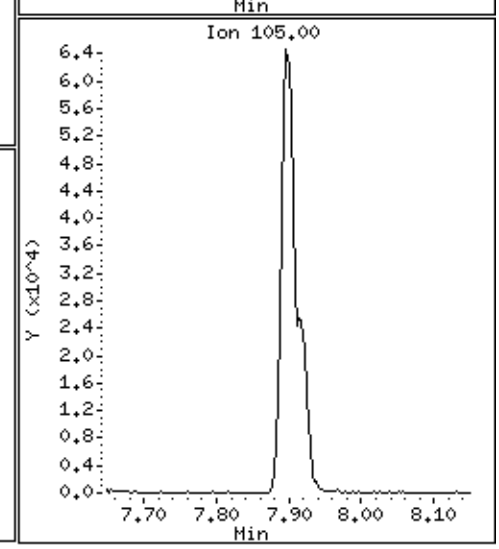


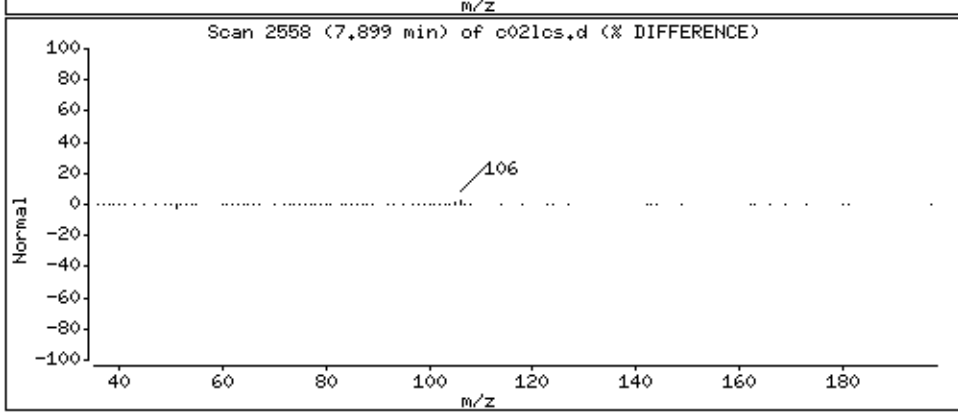












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

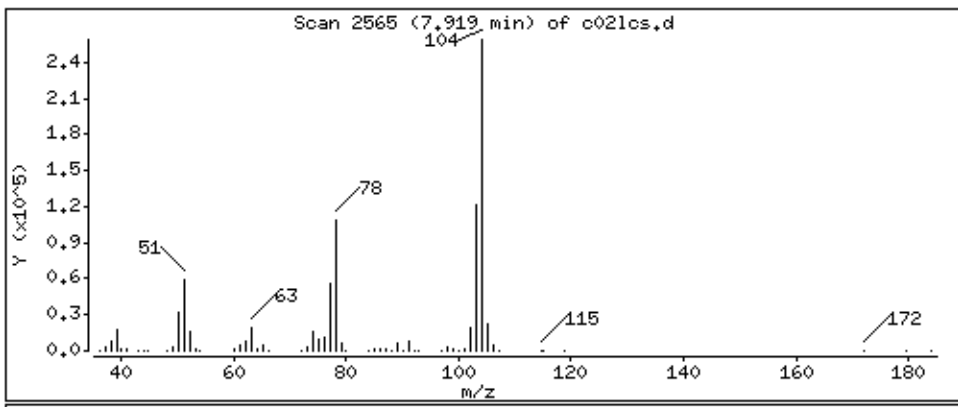
Operator: dae

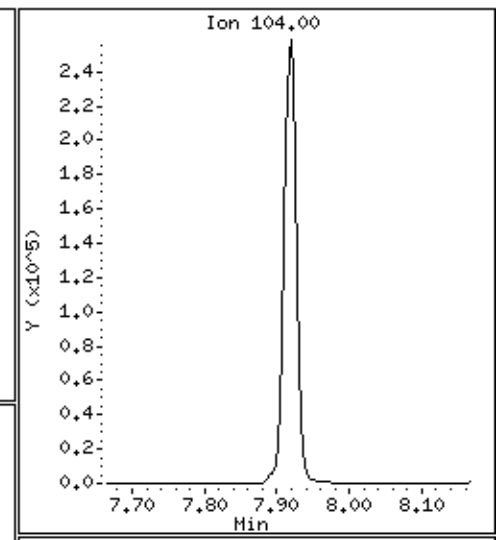
Column phase: DB-624

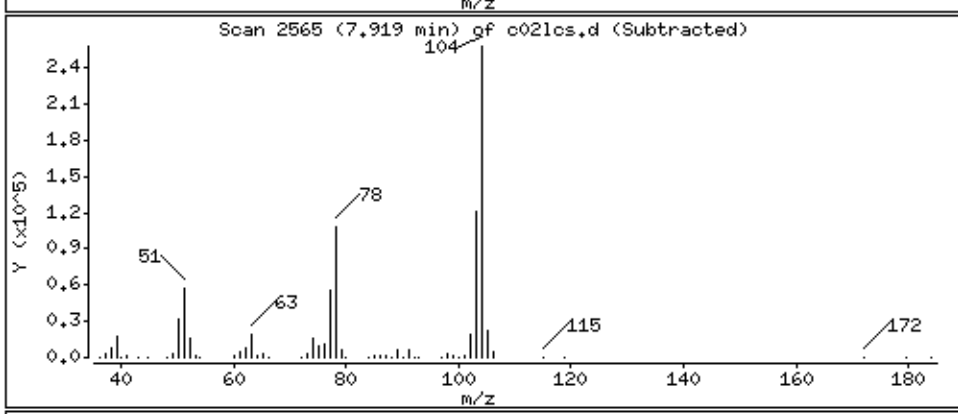
Column diameter: 0.18

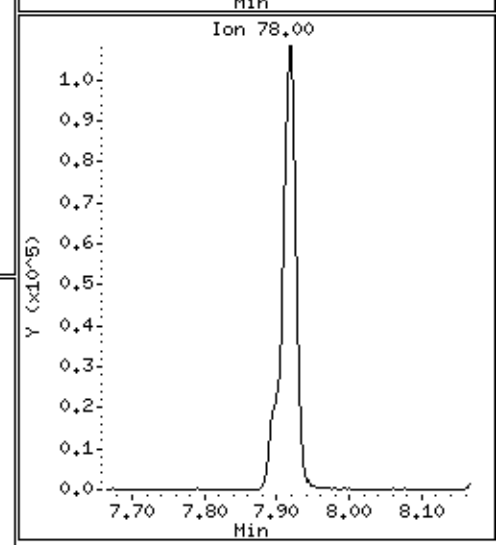
73 Styrene

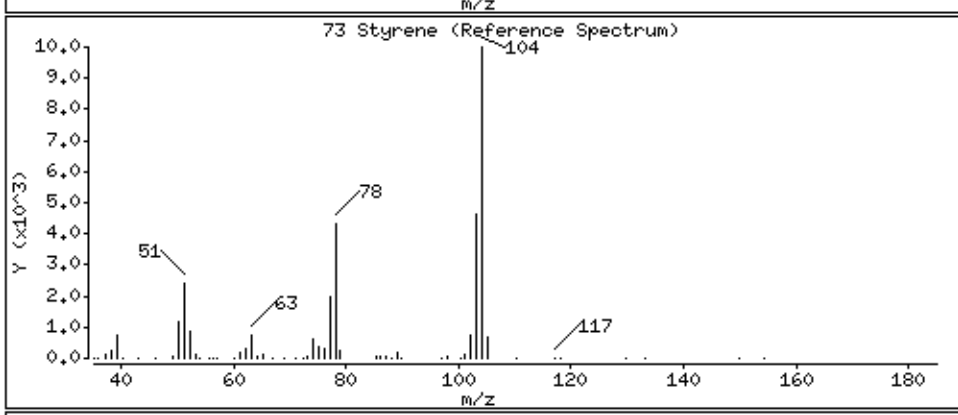
Concentration: 52.2 ppb

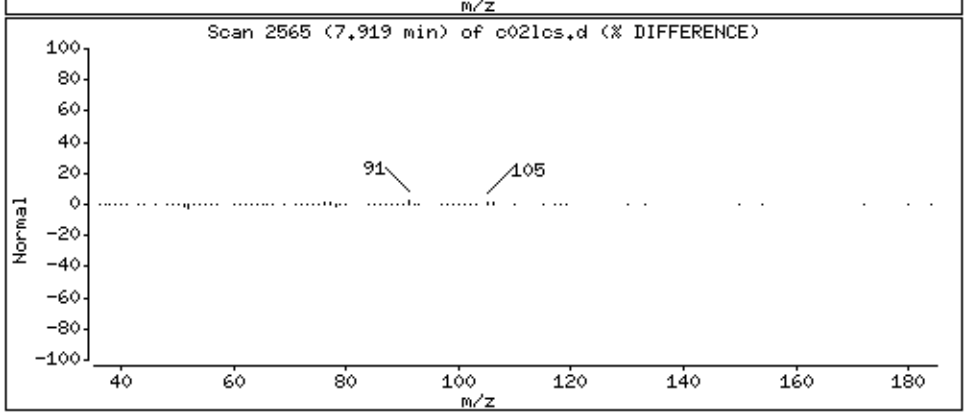












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

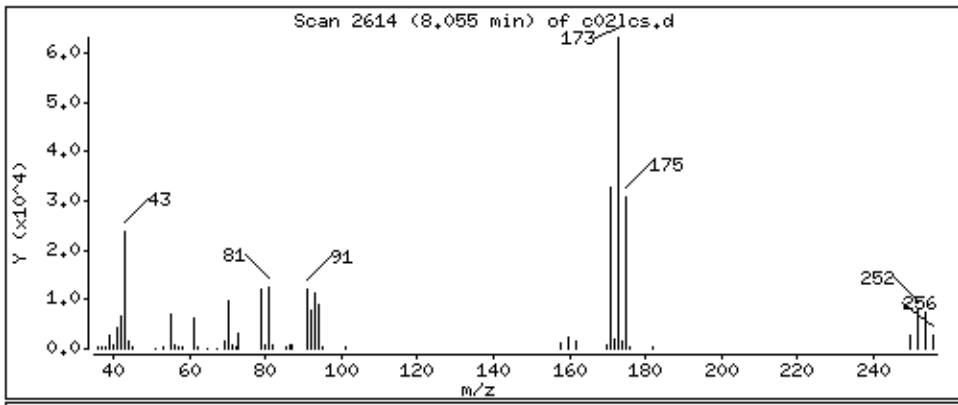
Operator: dae

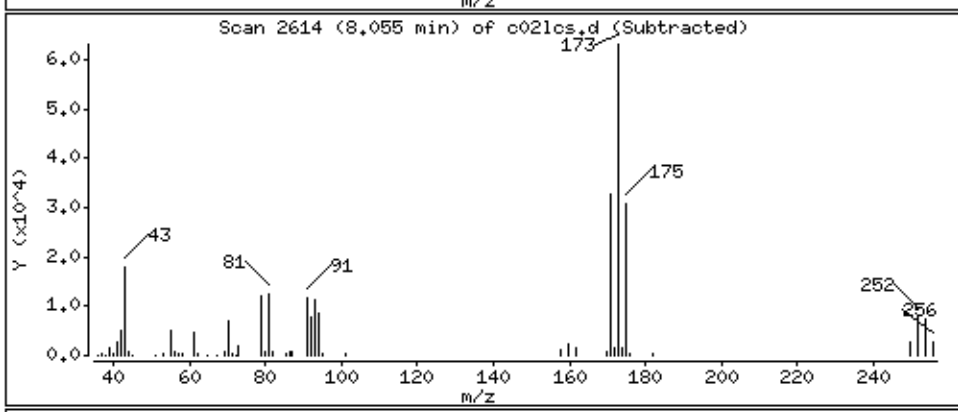
Column phase: DB-624

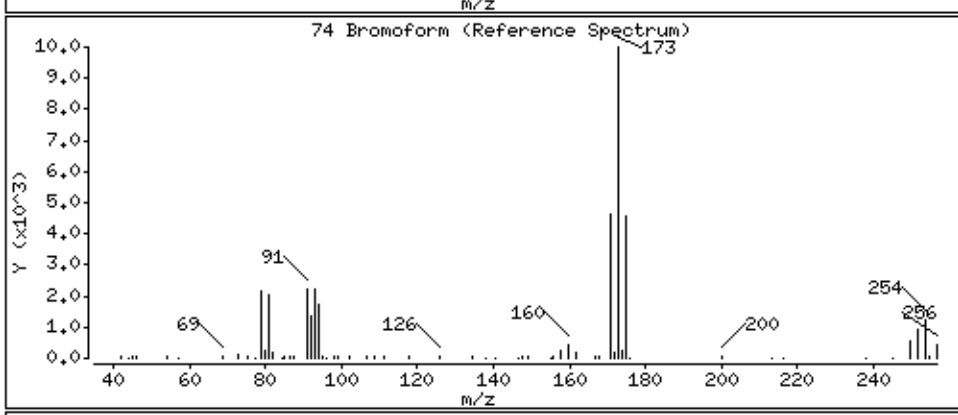
Column diameter: 0.18

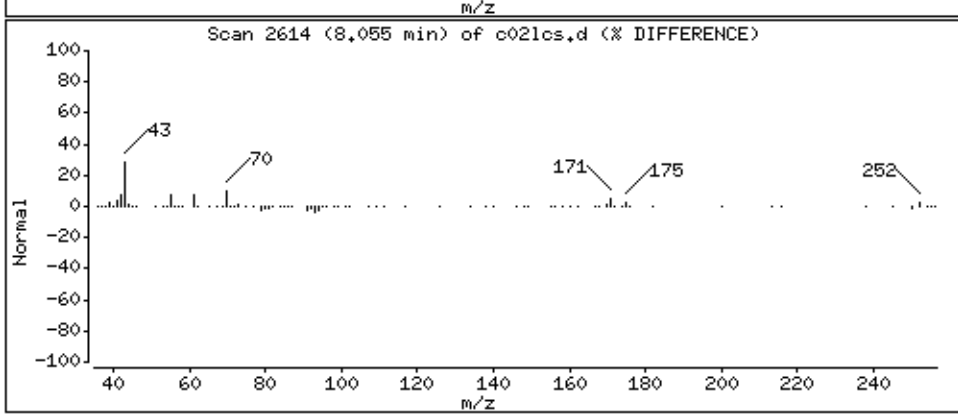
74 Bromoform

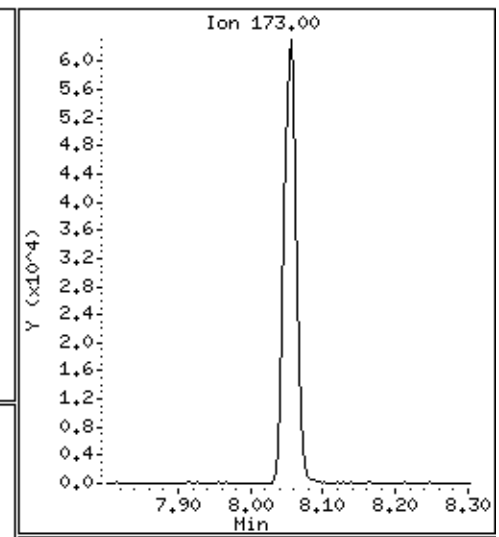
Concentration: 41.2 ppb

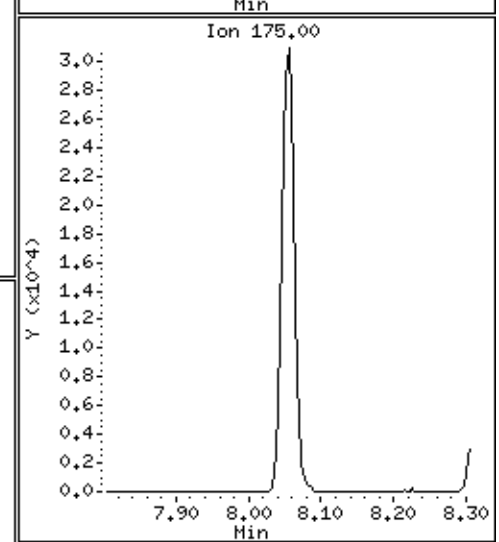


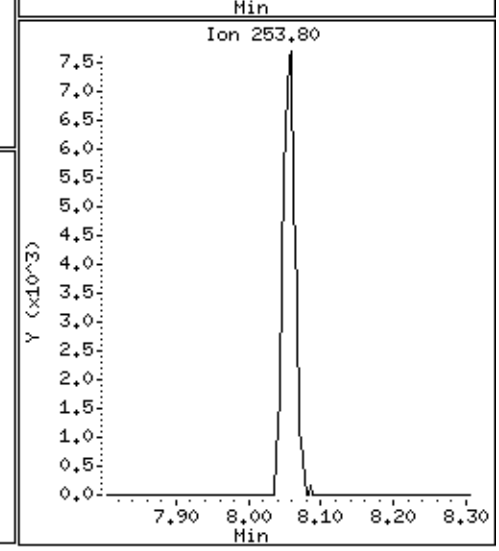












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

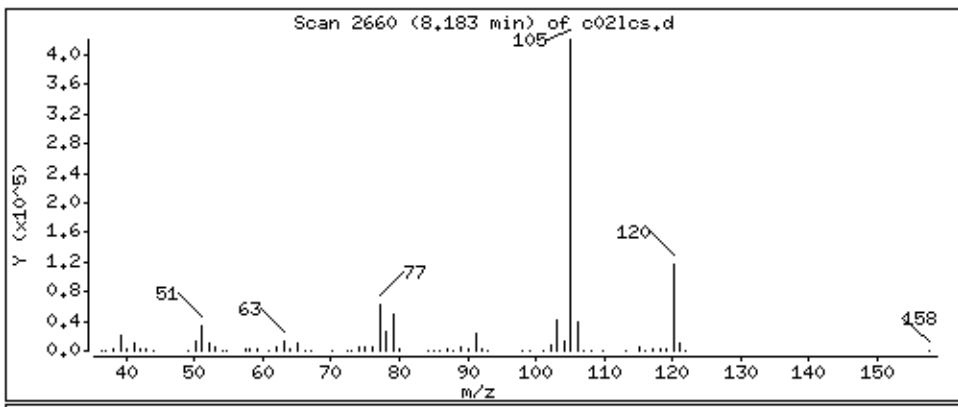
Operator: dae

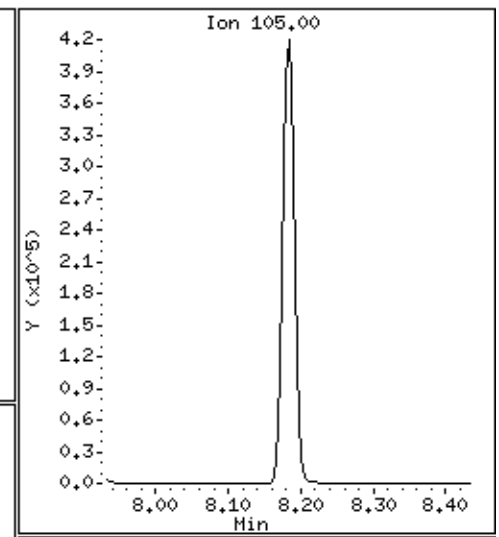
Column phase: DB-624

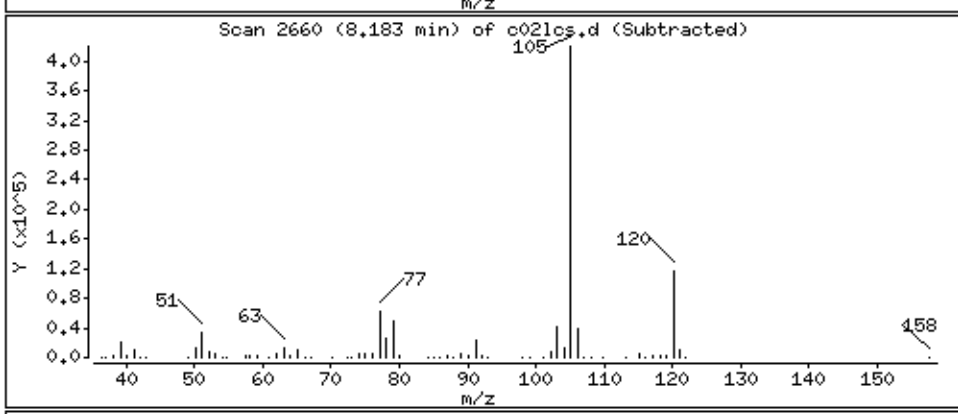
Column diameter: 0.18

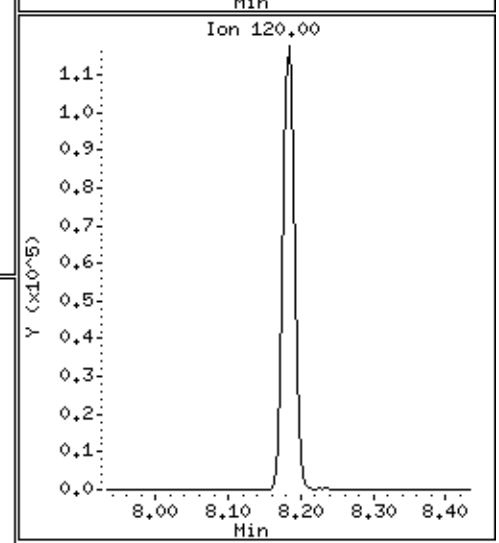
75 Isopropylbenzene

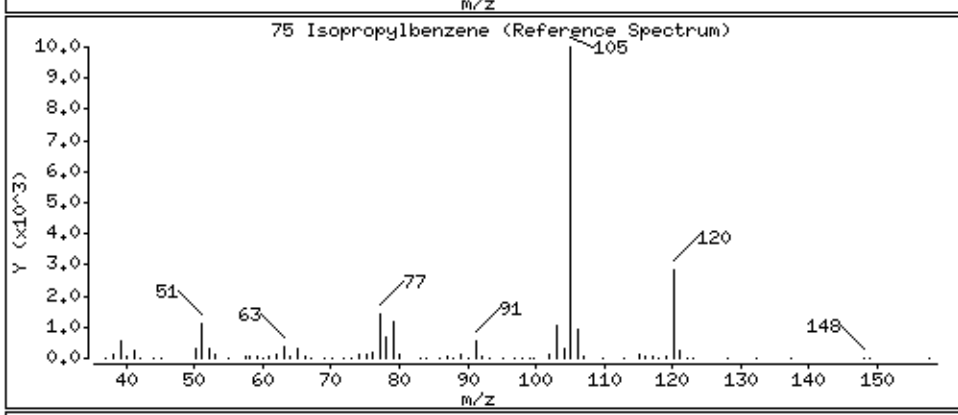
Concentration: 53.6 ppb

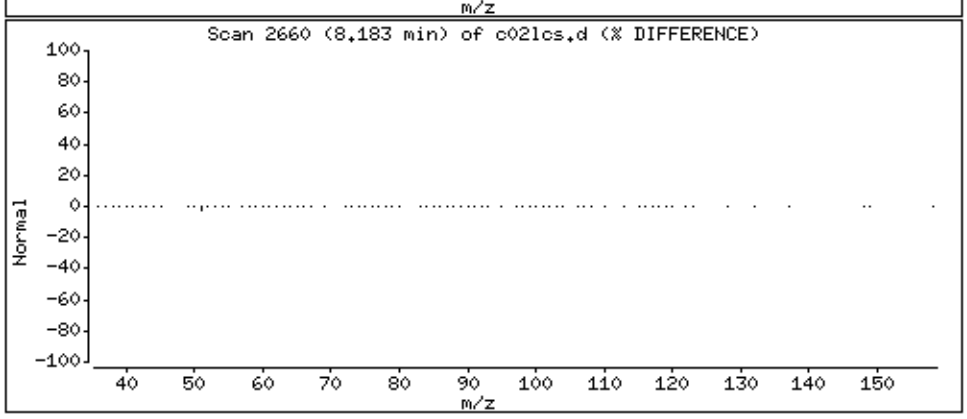












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

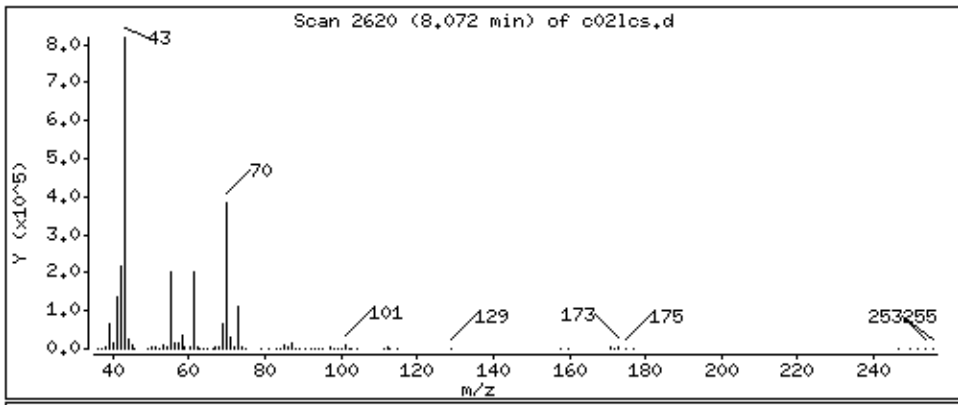
Operator: dae

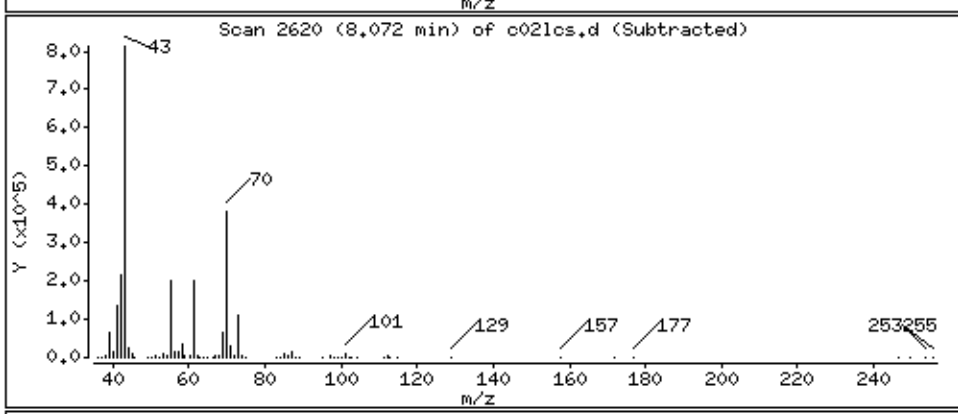
Column phase: DB-624

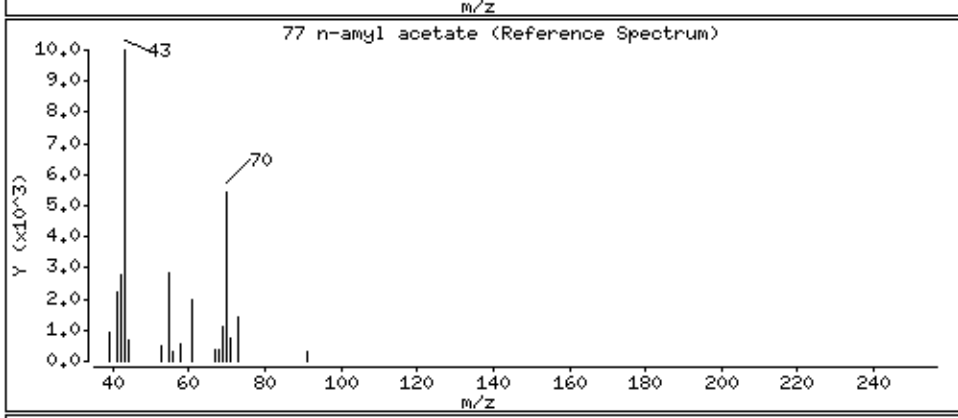
Column diameter: 0.18

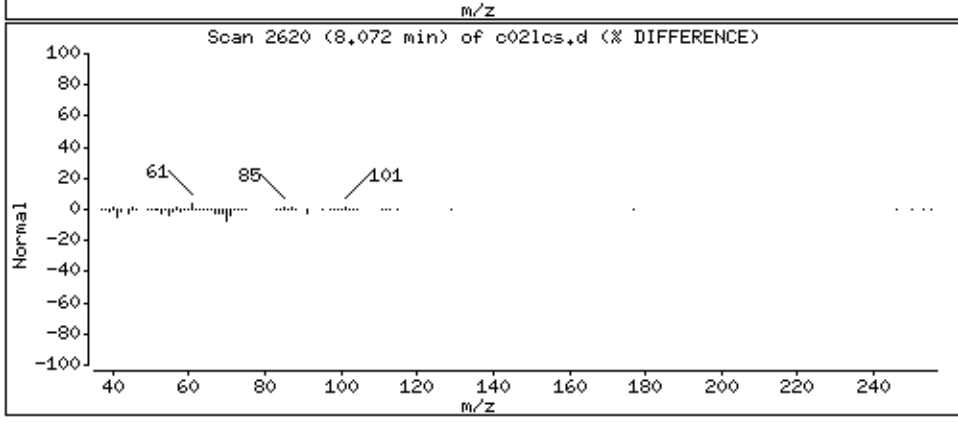
77 n-amyl acetate

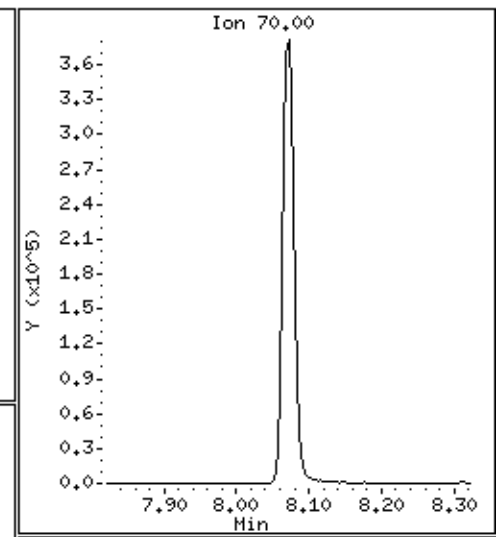
Concentration: 248 ppb

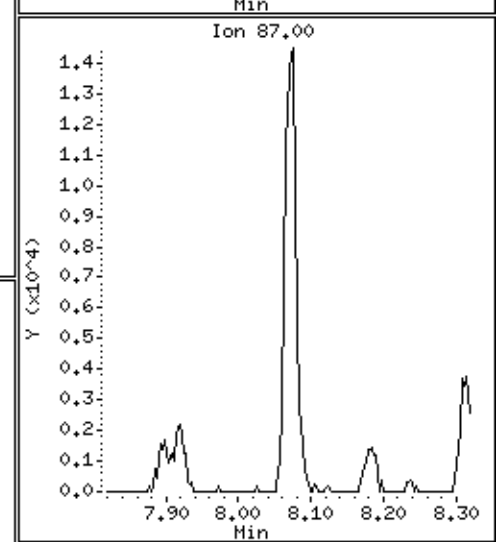


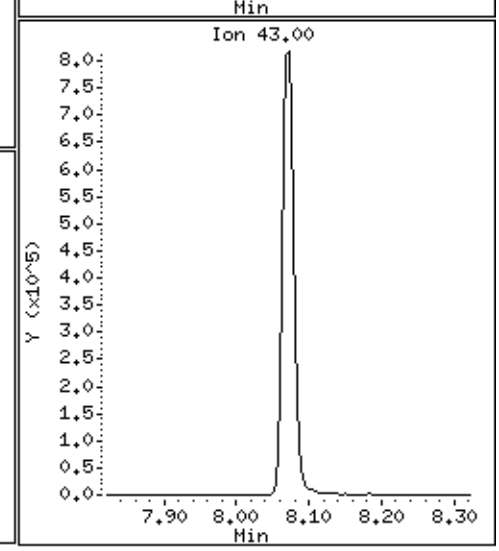












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

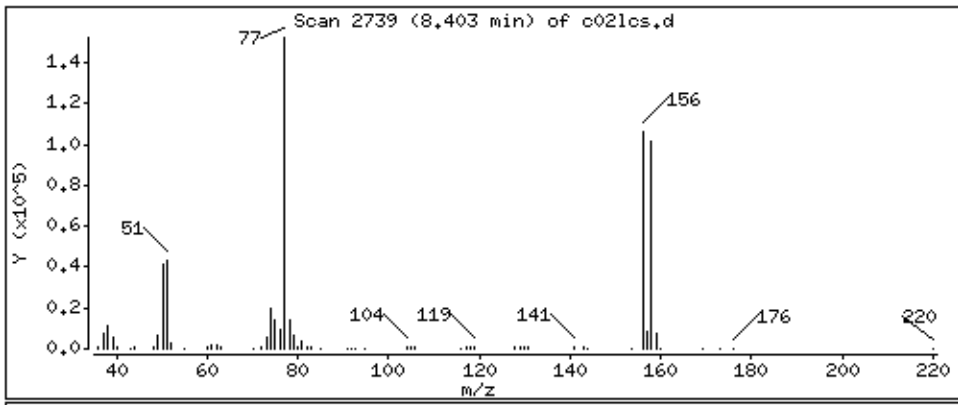
Operator: dae

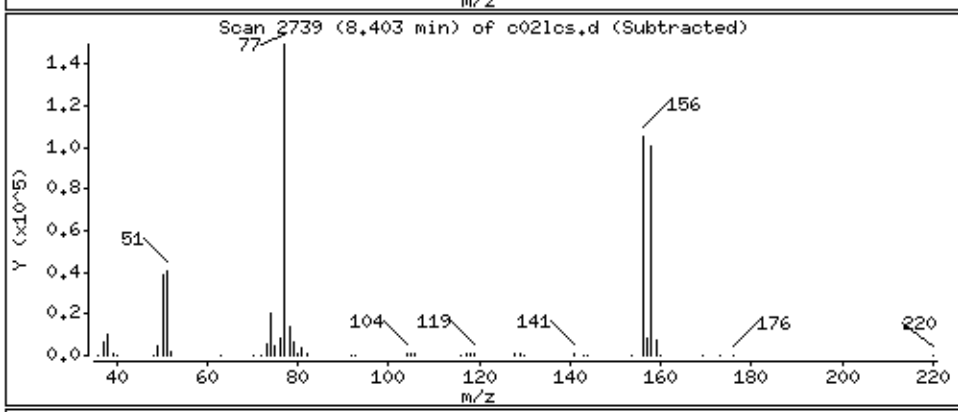
Column phase: DB-624

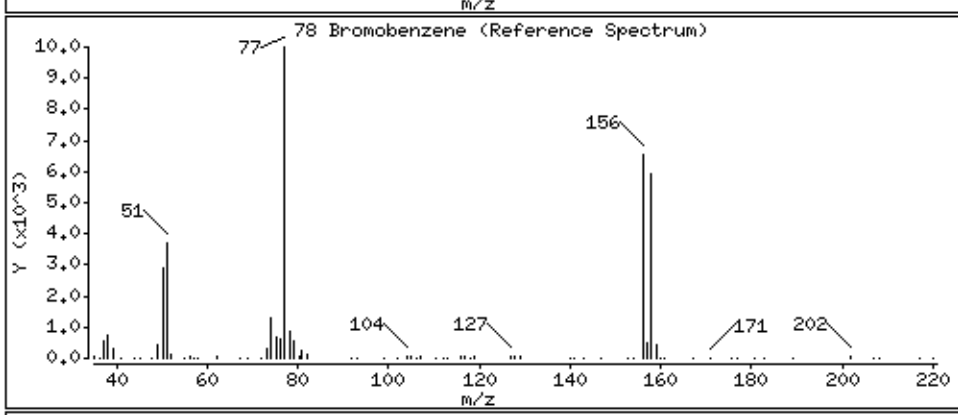
Column diameter: 0.18

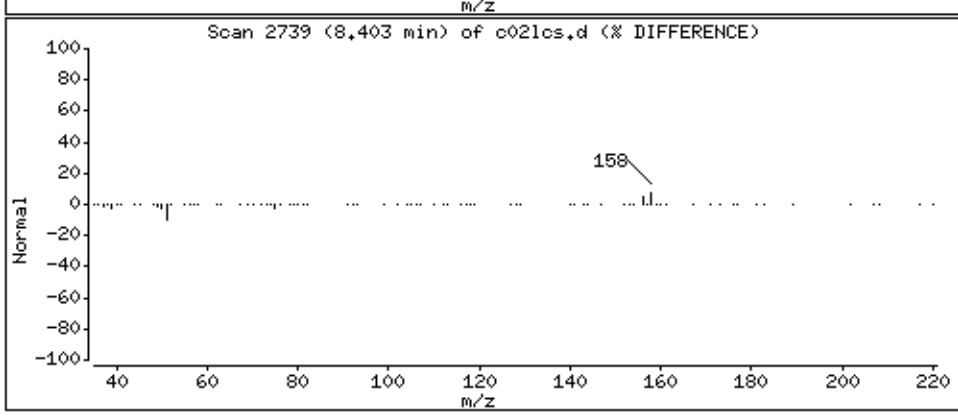
78 Bromobenzene

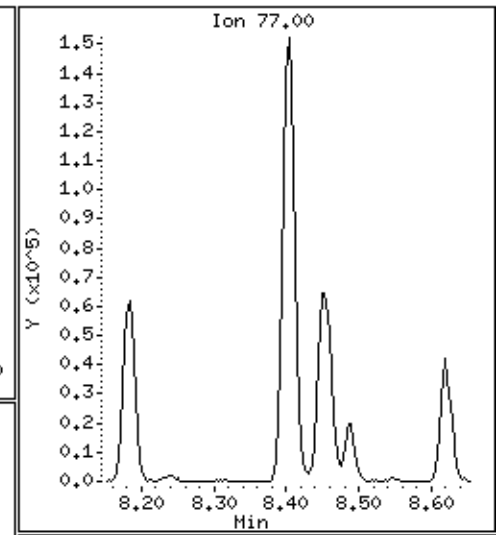
Concentration: 50.8 ppb

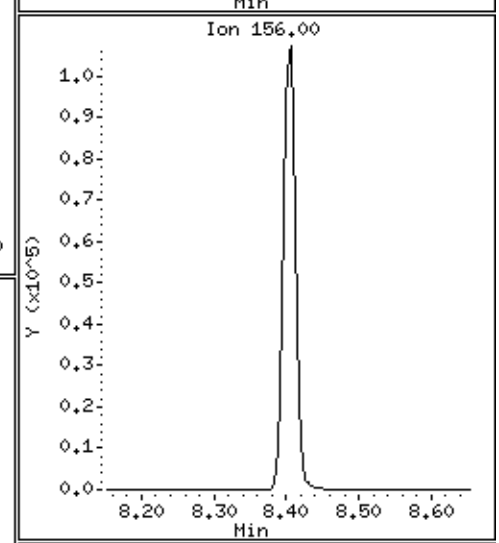


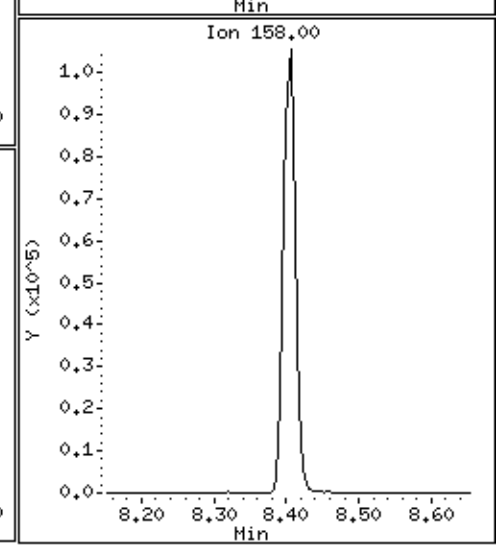












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

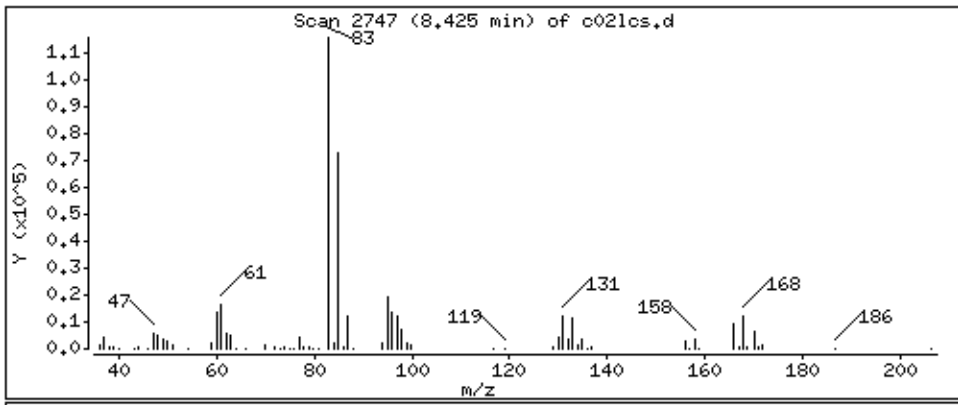
Operator: dae

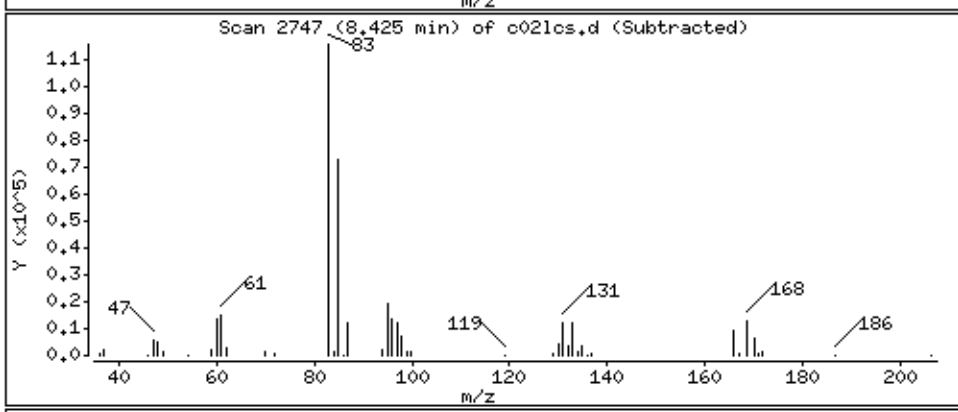
Column phase: DB-624

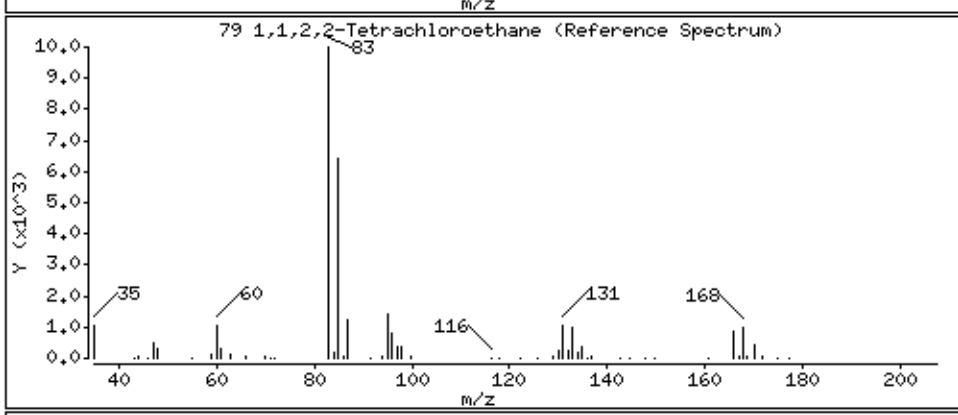
Column diameter: 0.18

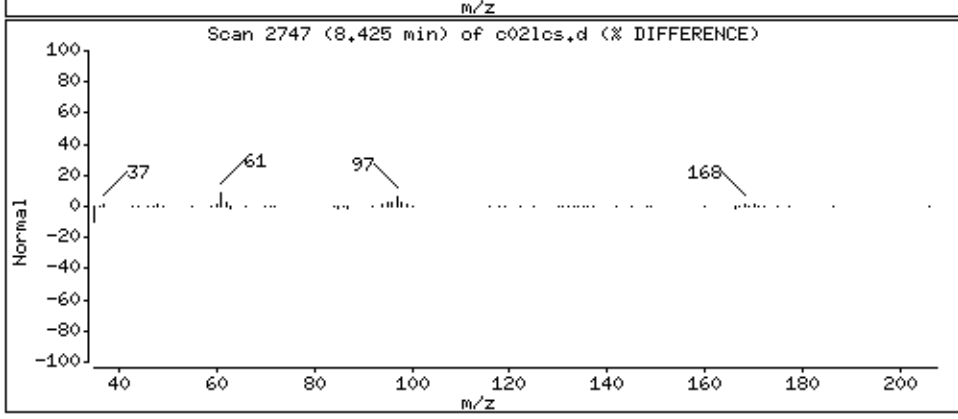
79 1,1,2,2-Tetrachloroethane

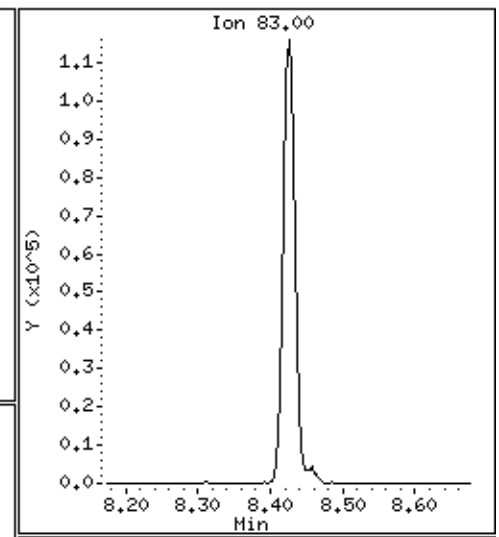
Concentration: 53.0 ppb

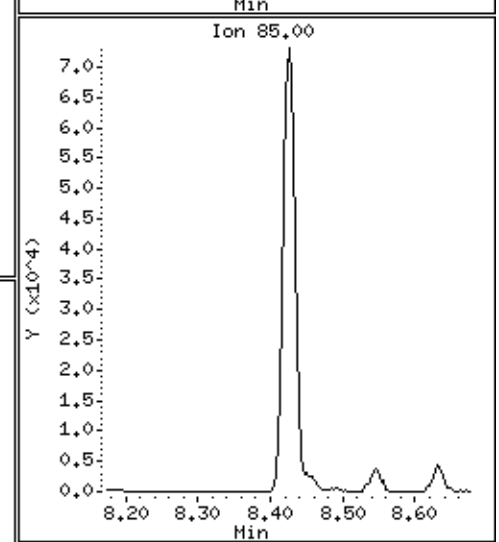


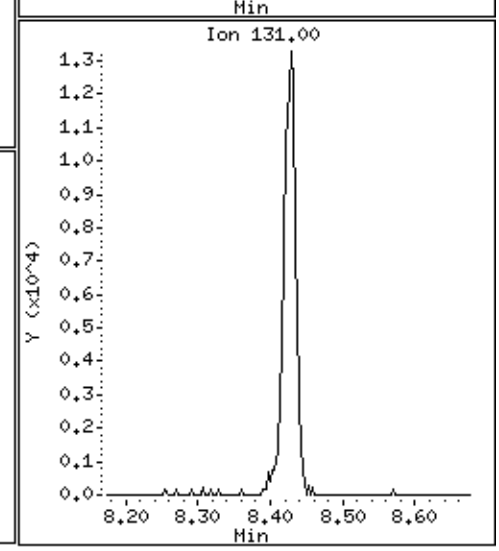












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

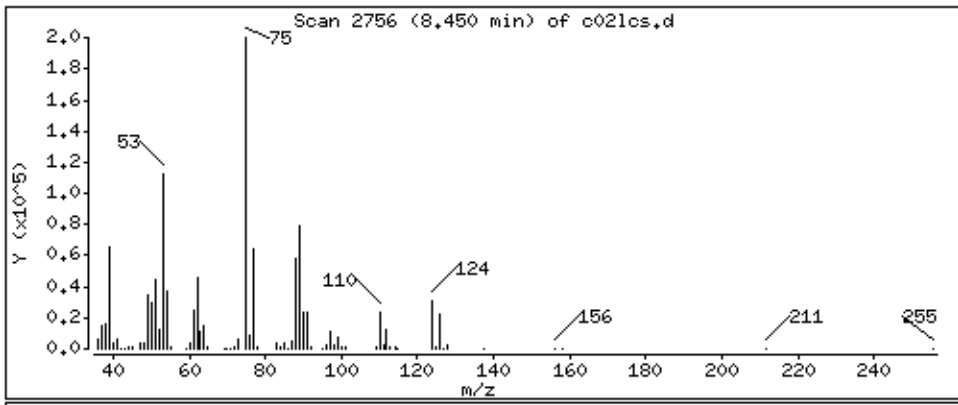
Operator: dae

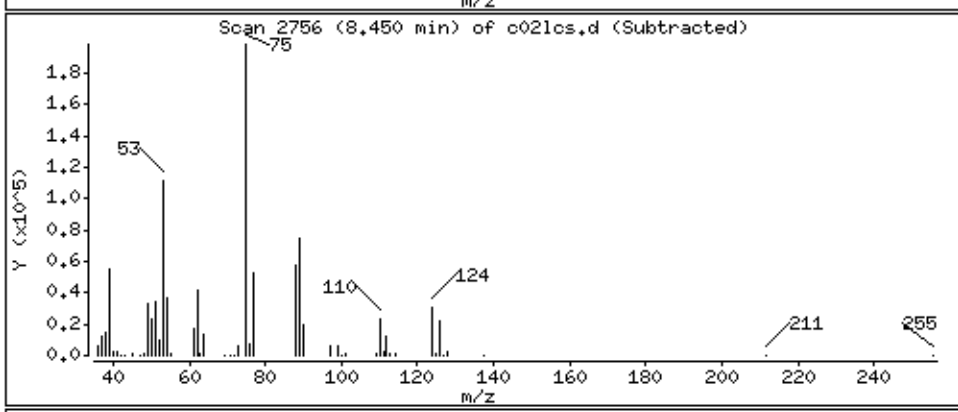
Column phase: DB-624

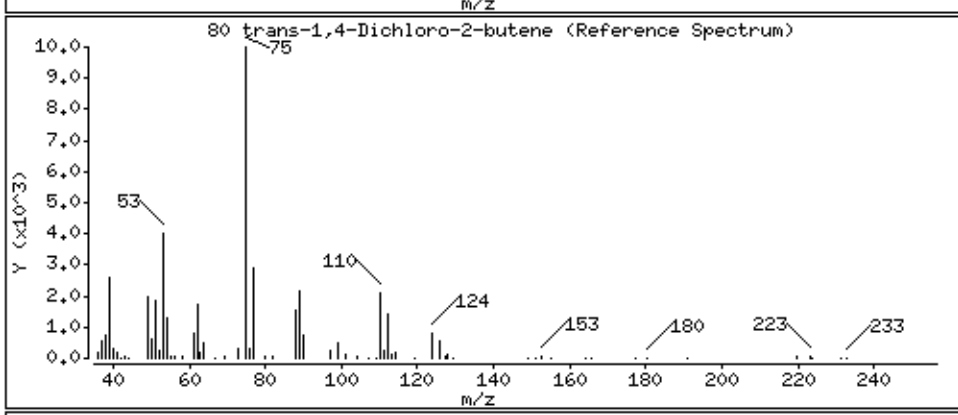
Column diameter: 0.18

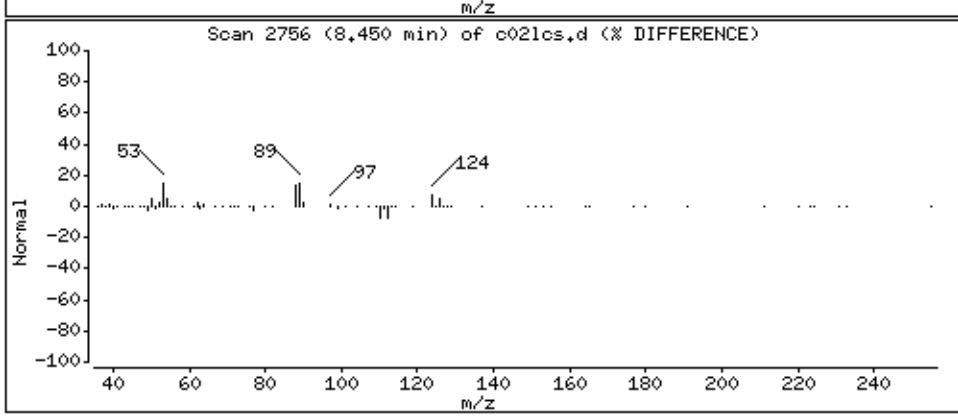
80 trans-1,4-Dichloro-2-butene

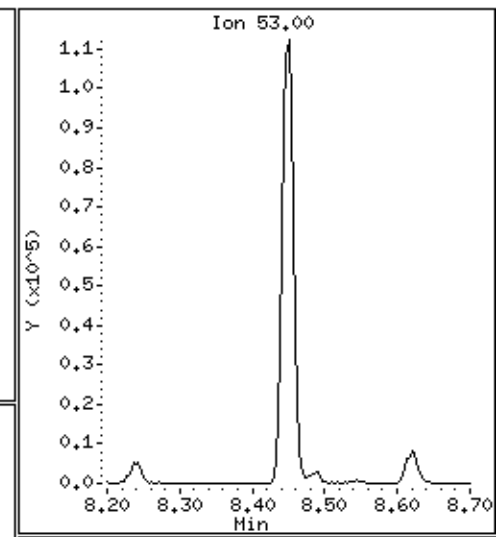
Concentration: 162 ppb

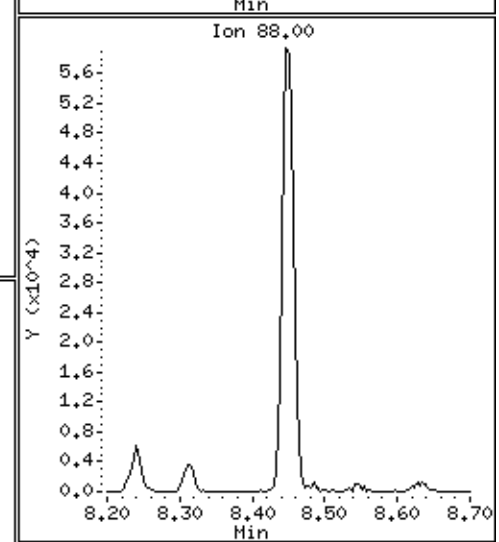


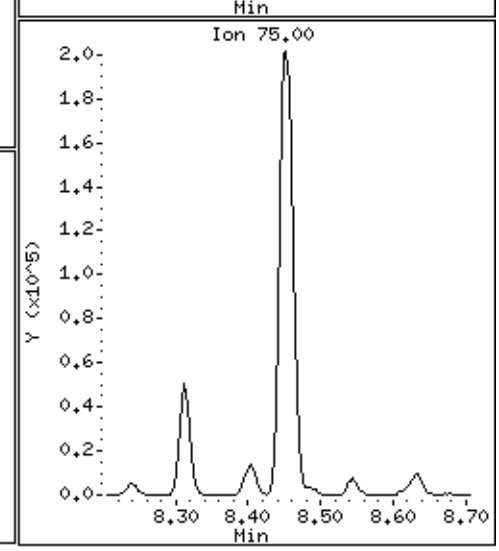












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

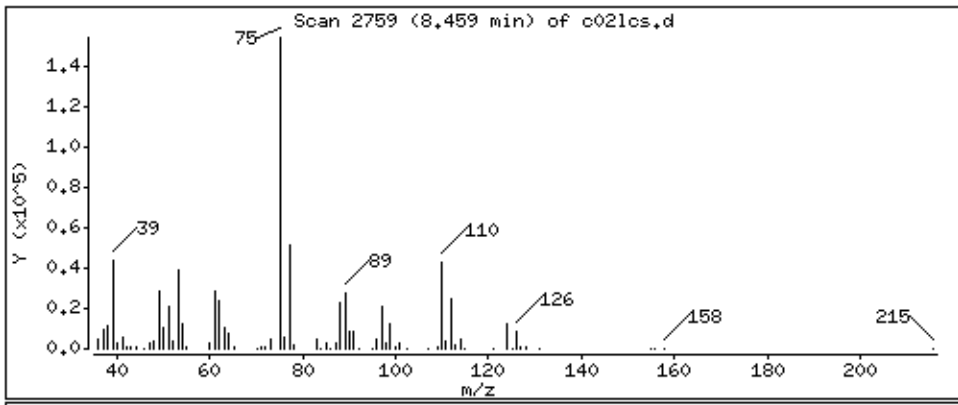
Operator: dae

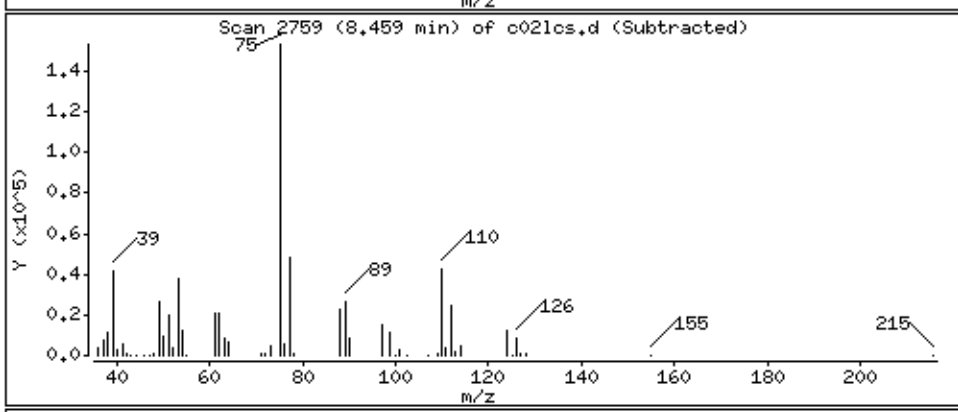
Column phase: DB-624

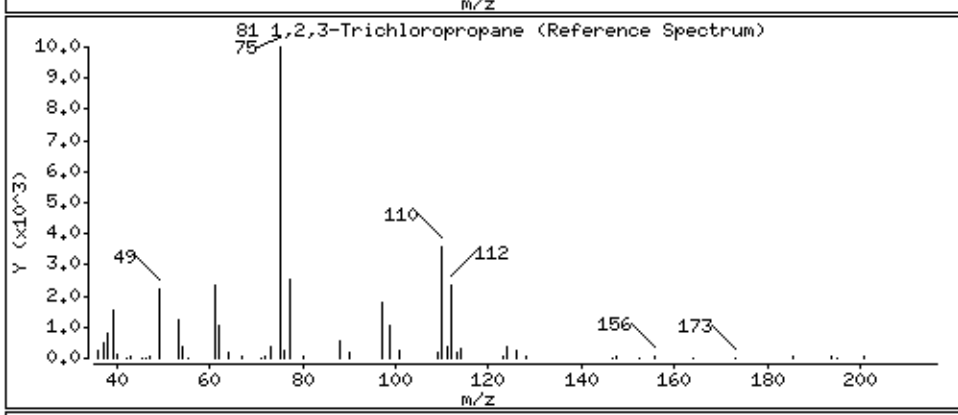
Column diameter: 0.18

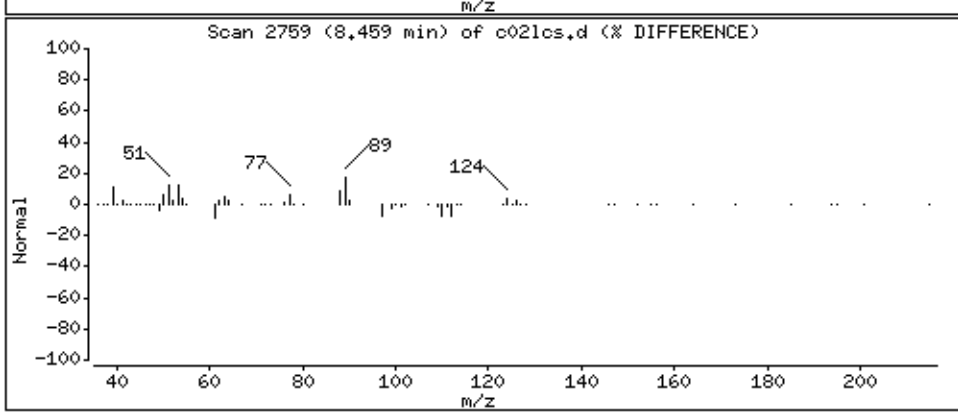
81 1,2,3-Trichloropropane

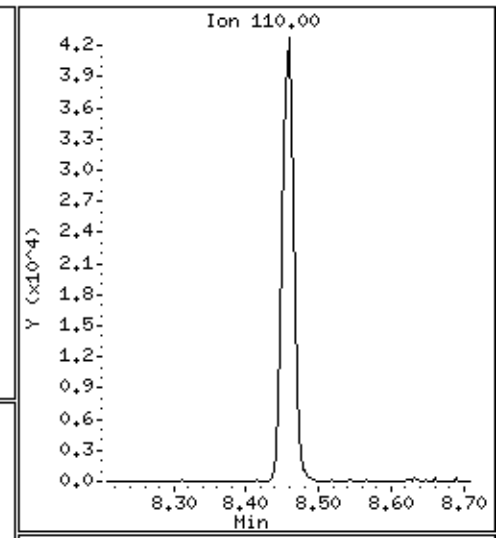
Concentration: 53.2 ppb

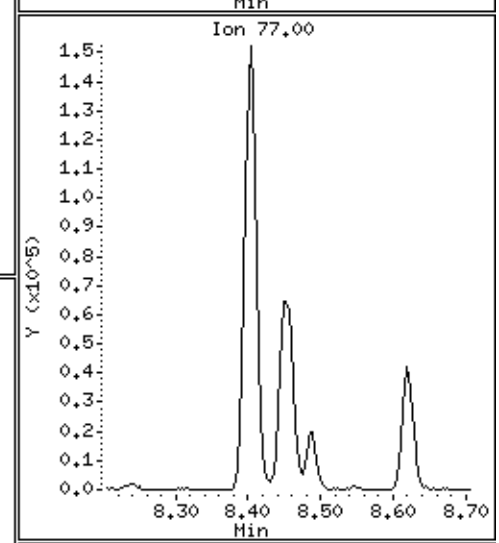


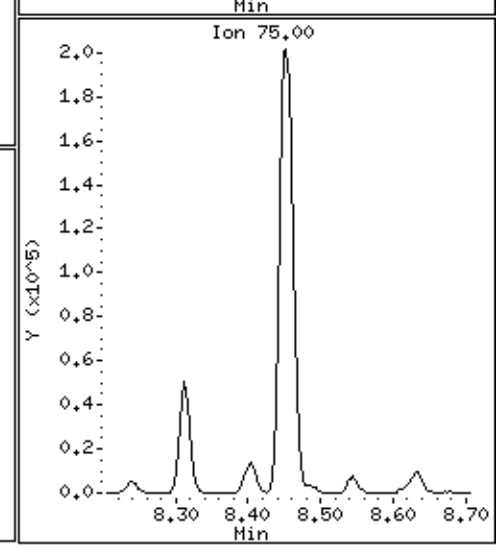












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

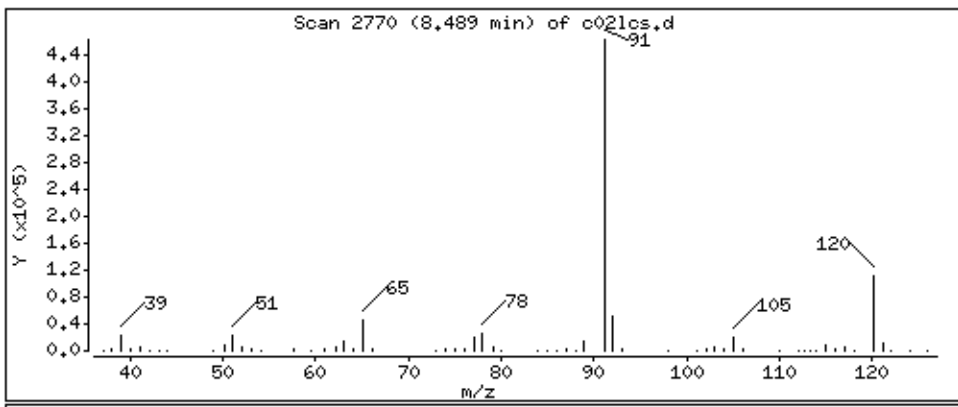
Operator: dae

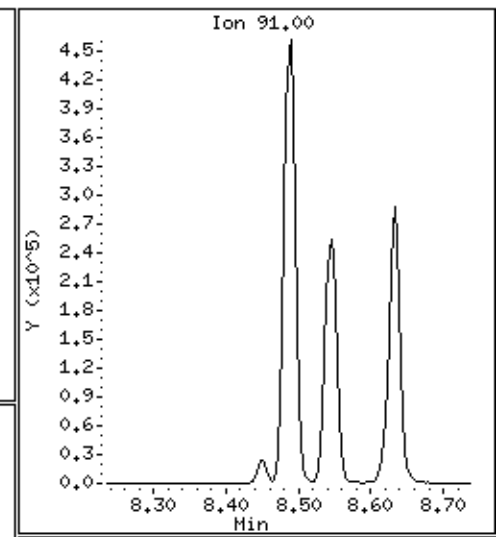
Column phase: DB-624

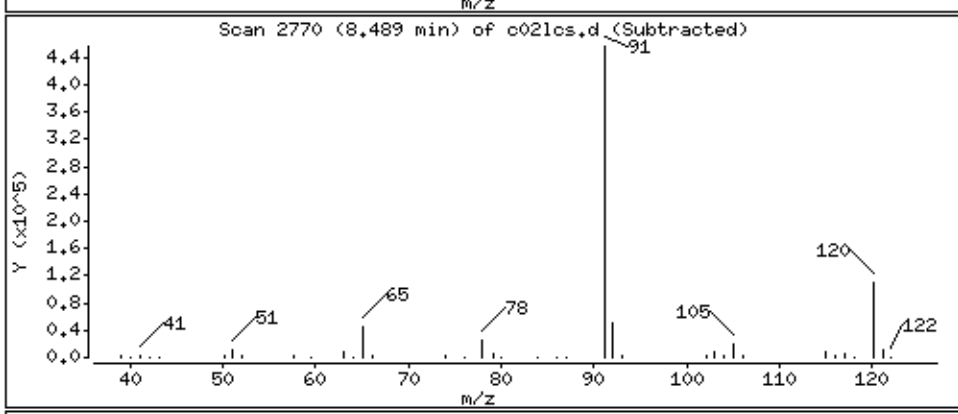
Column diameter: 0.18

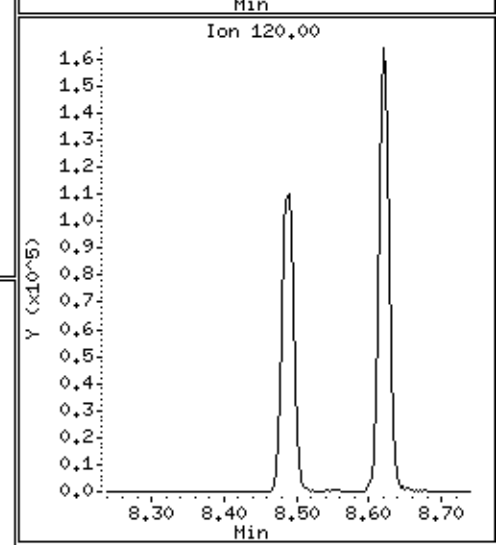
82 n-Propylbenzene

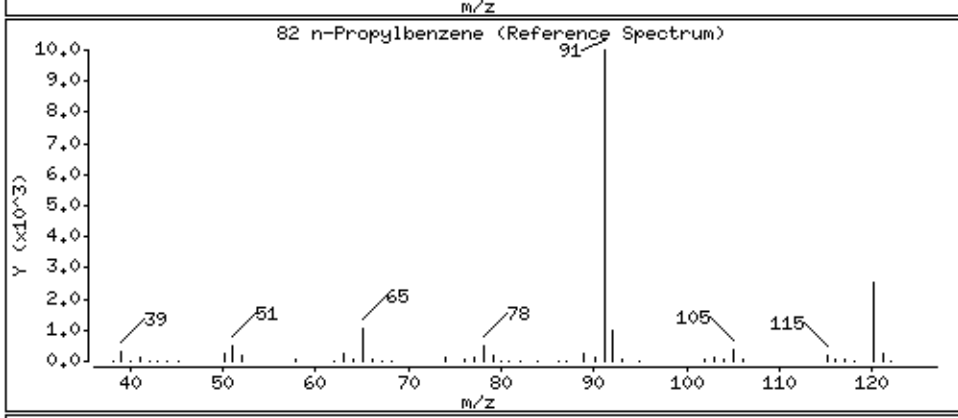
Concentration: 56.9 ppb

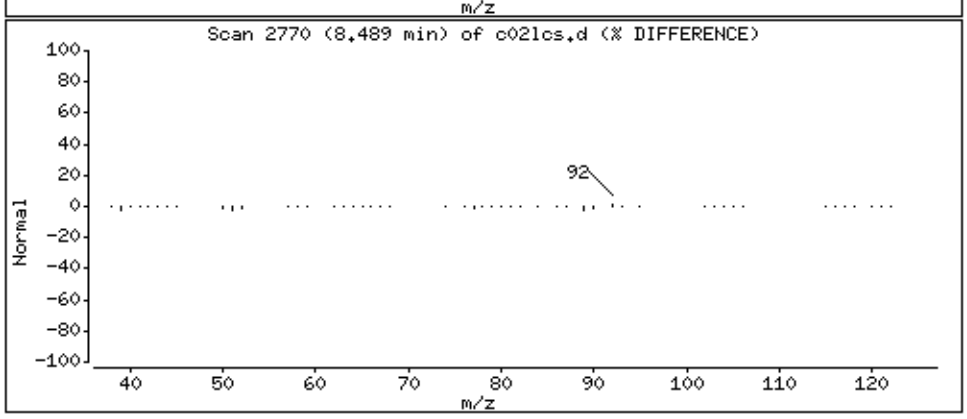












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

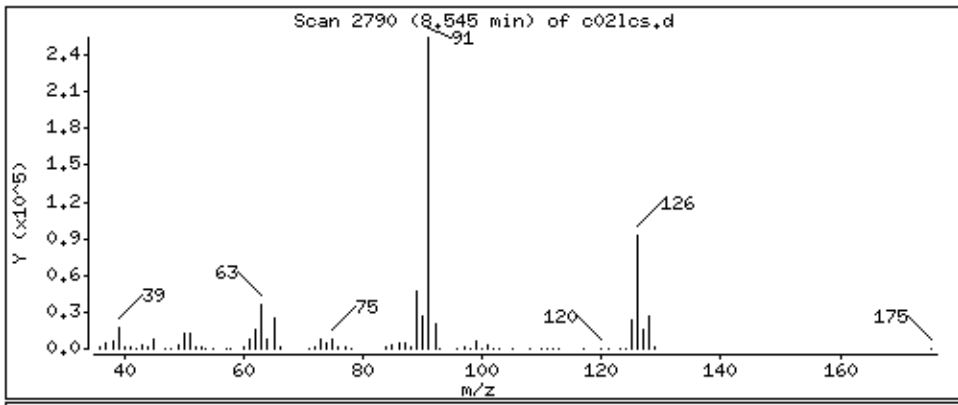
Operator: dae

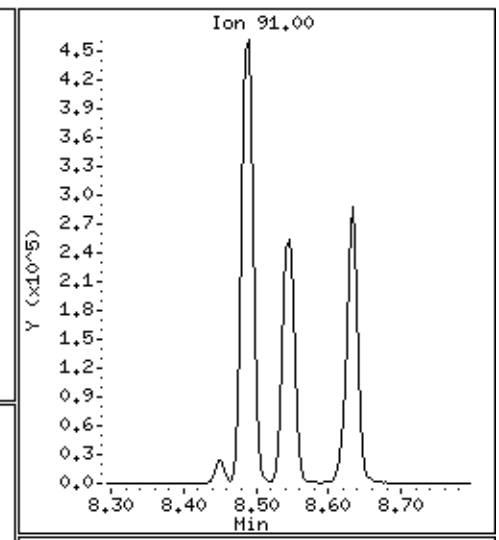
Column phase: DB-624

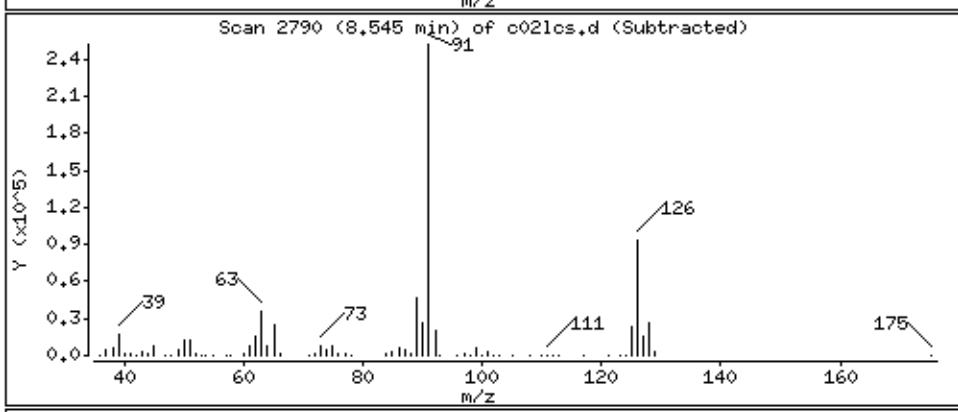
Column diameter: 0.18

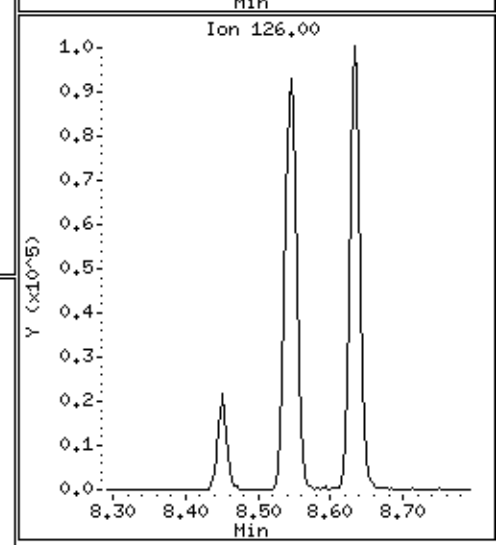
83 2-Chlorotoluene

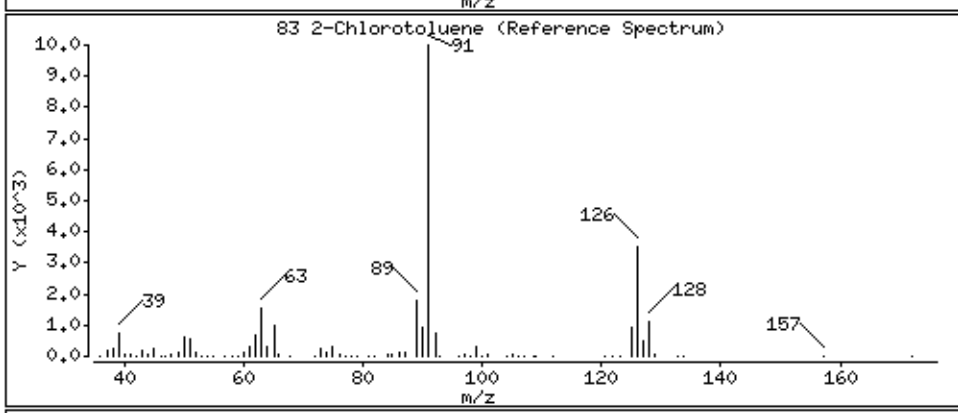
Concentration: 52.2 ppb

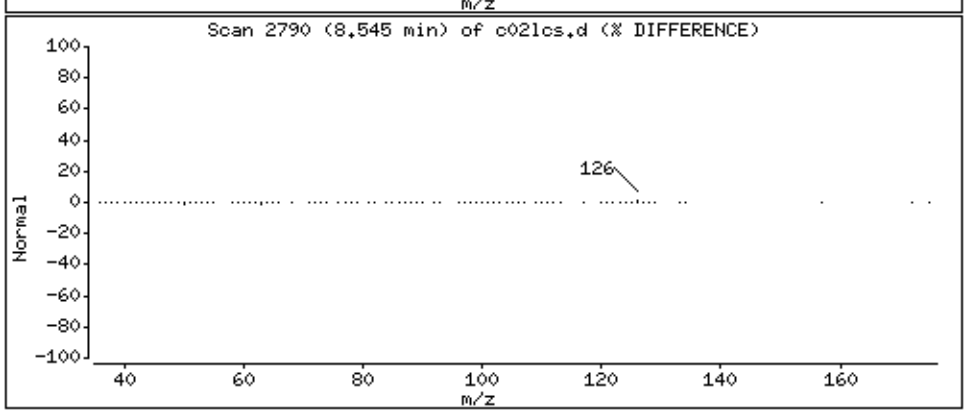












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

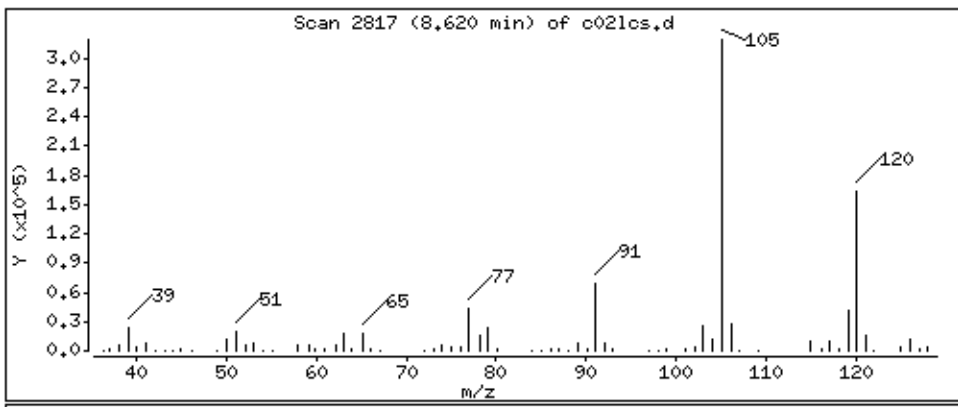
Operator: dae

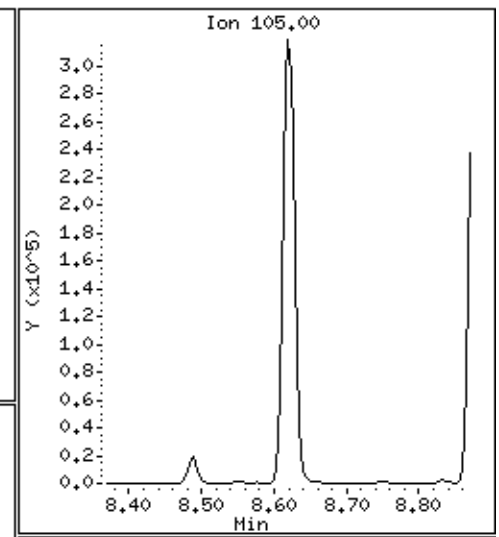
Column phase: DB-624

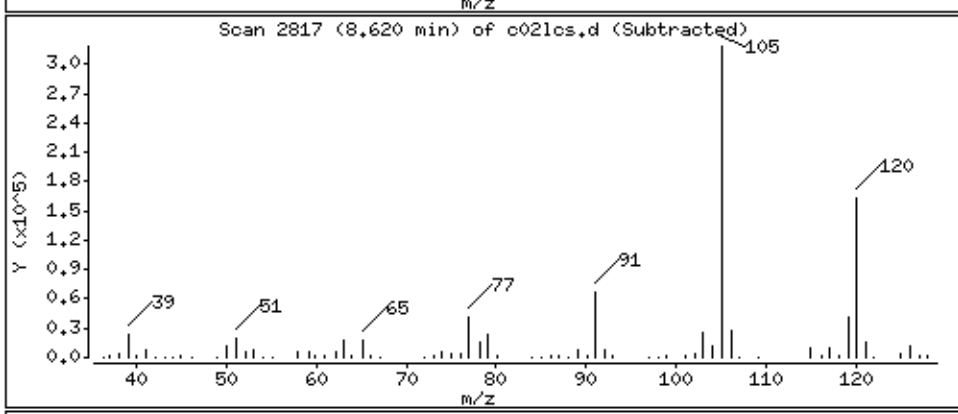
Column diameter: 0.18

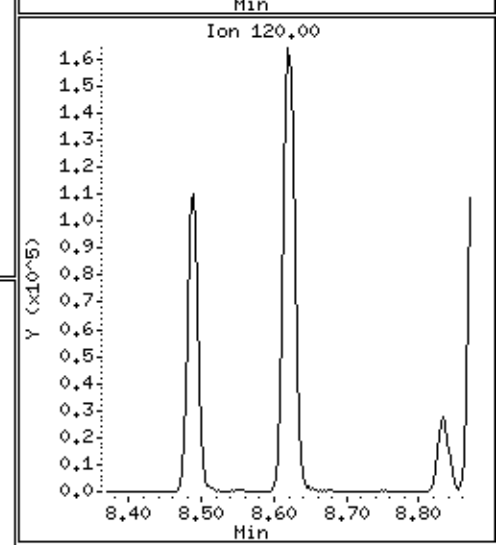
84 1,3,5-Trimethylbenzene

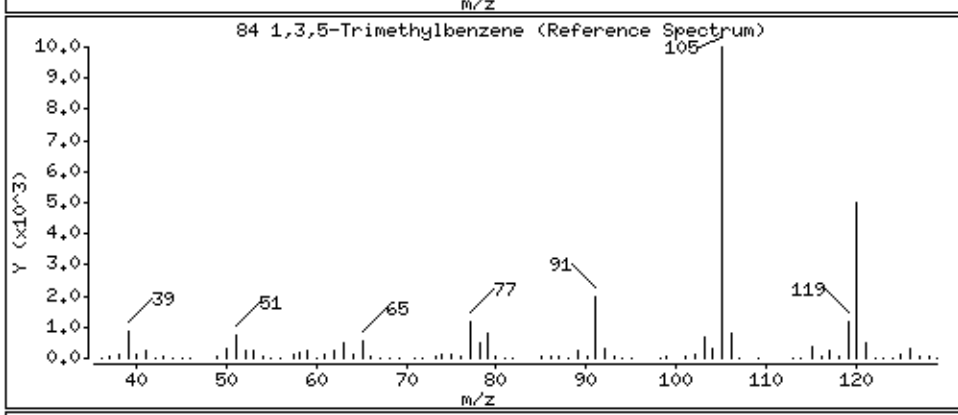
Concentration: 52.4 ppb

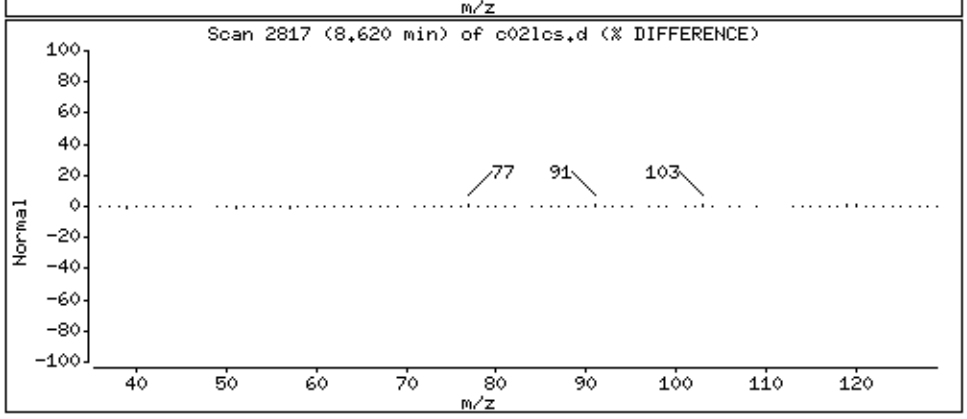












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

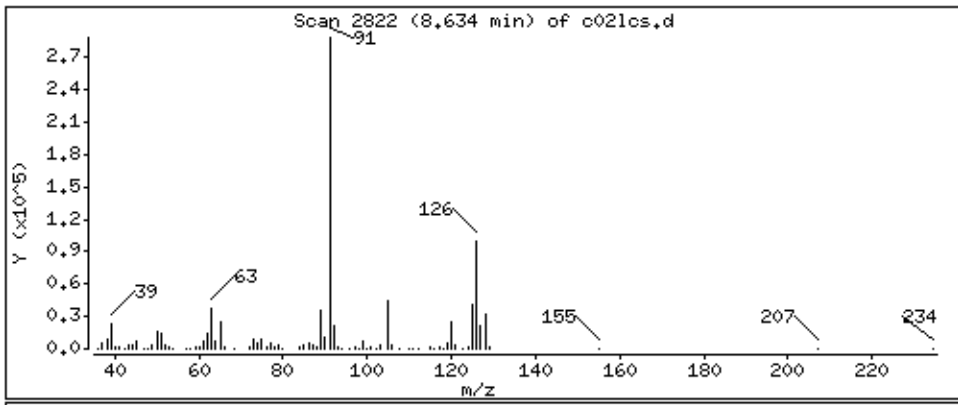
Operator: dae

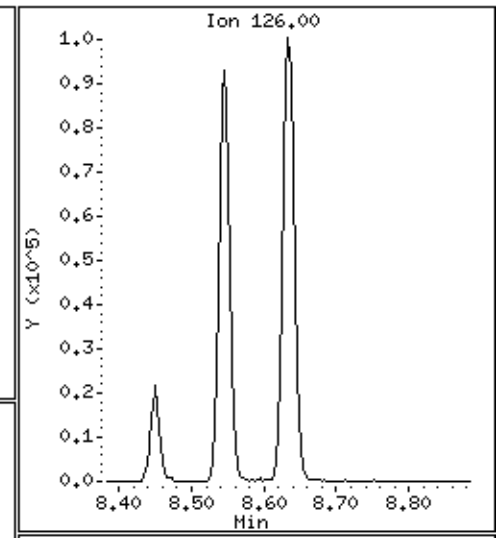
Column phase: DB-624

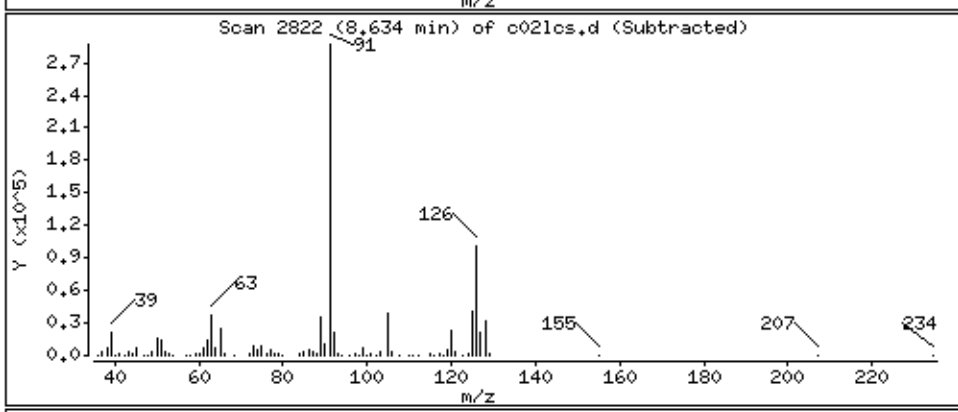
Column diameter: 0.18

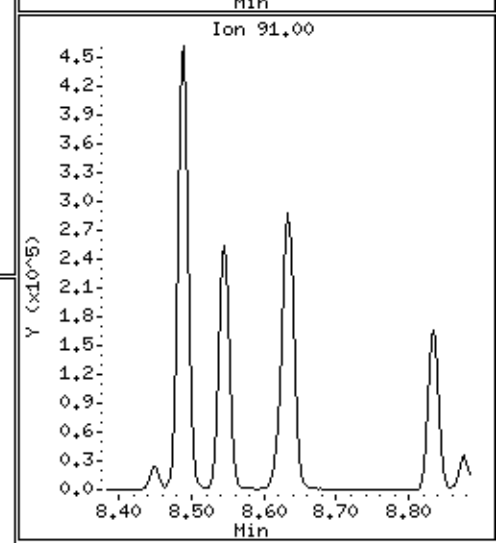
85 4-Chlorotoluene

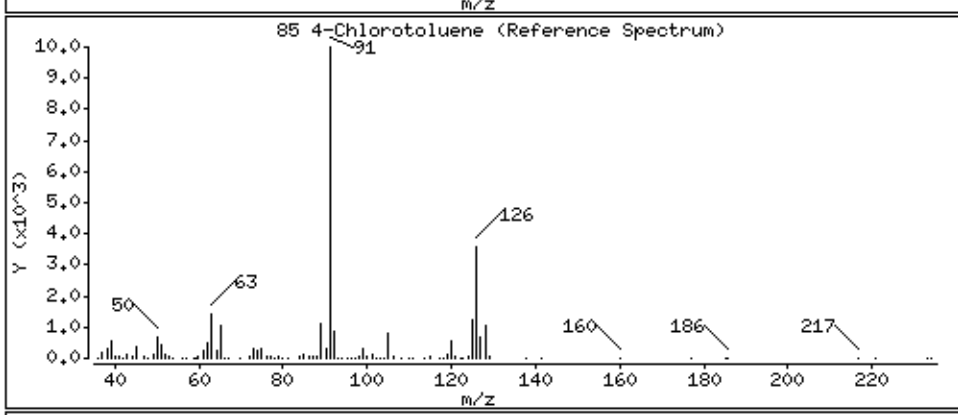
Concentration: 51.5 ppb

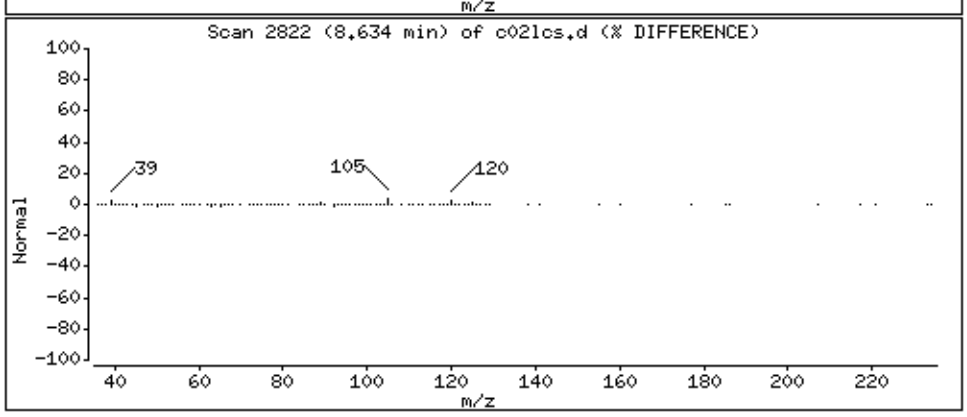












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

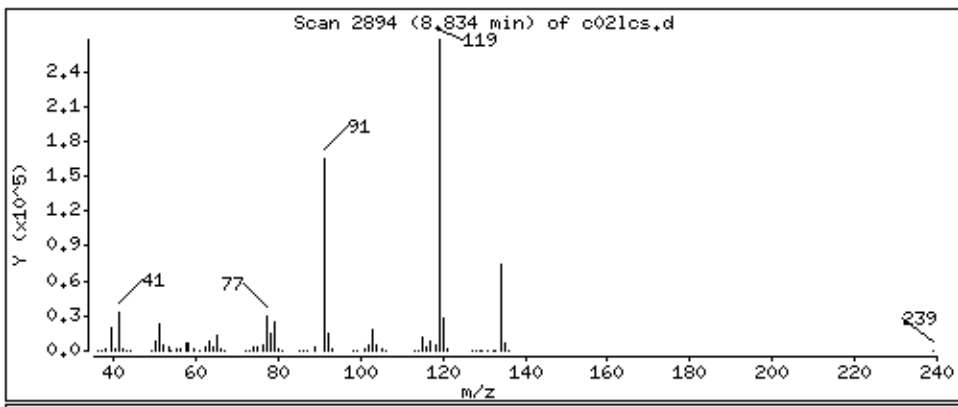
Operator: dae

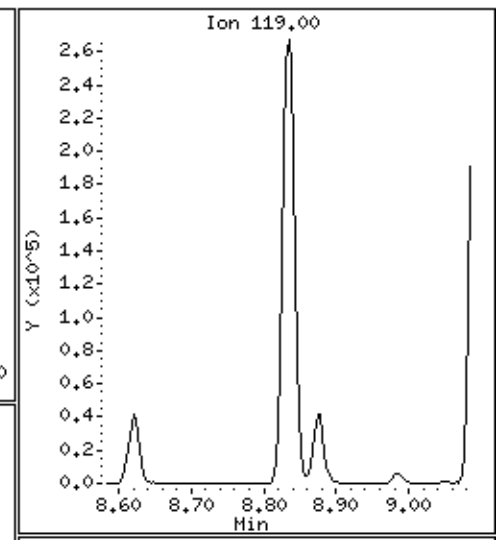
Column phase: DB-624

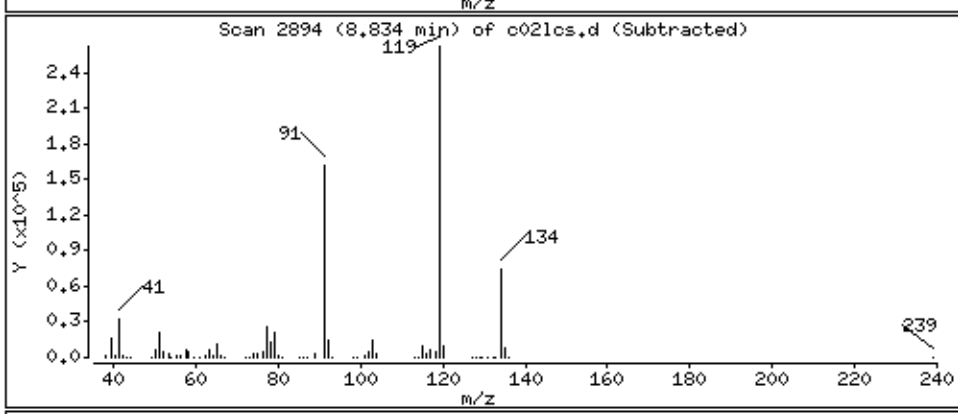
Column diameter: 0.18

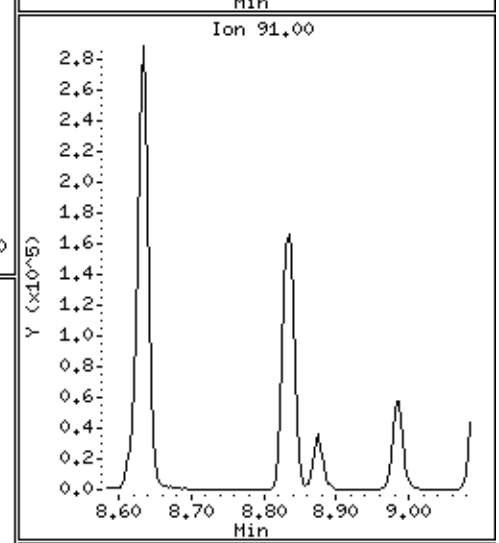
86 tert-Butylbenzene

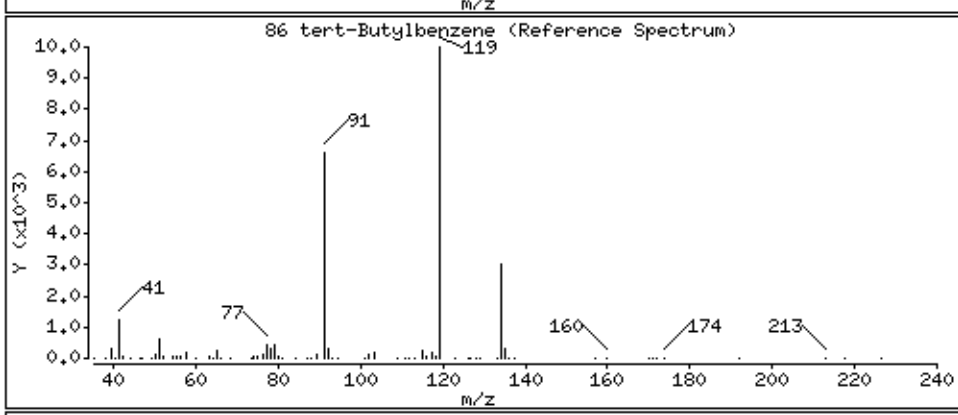
Concentration: 43.4 ppb

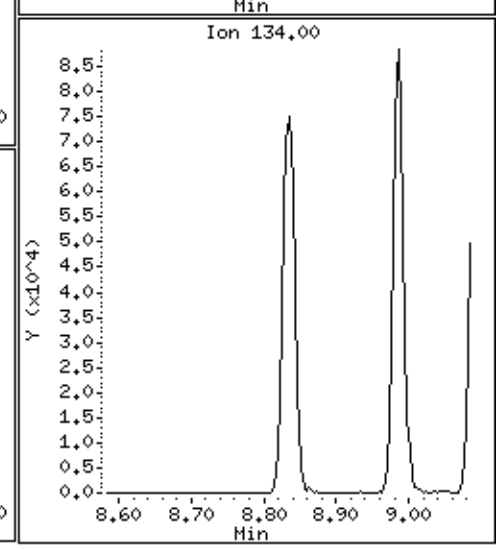


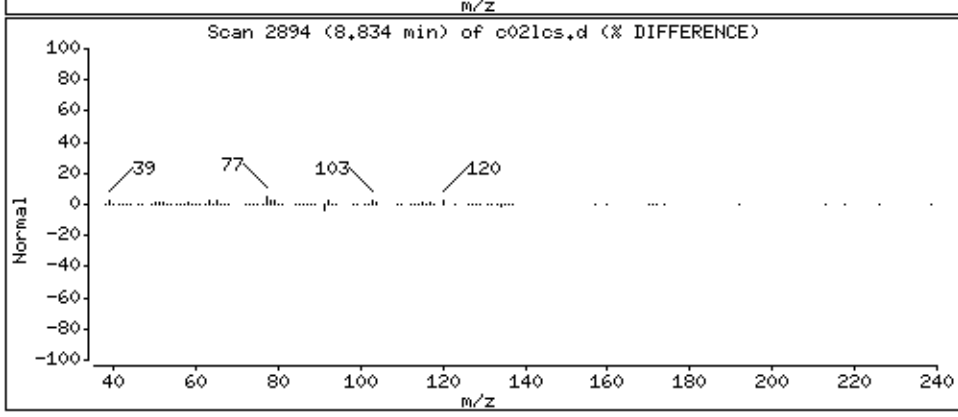












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

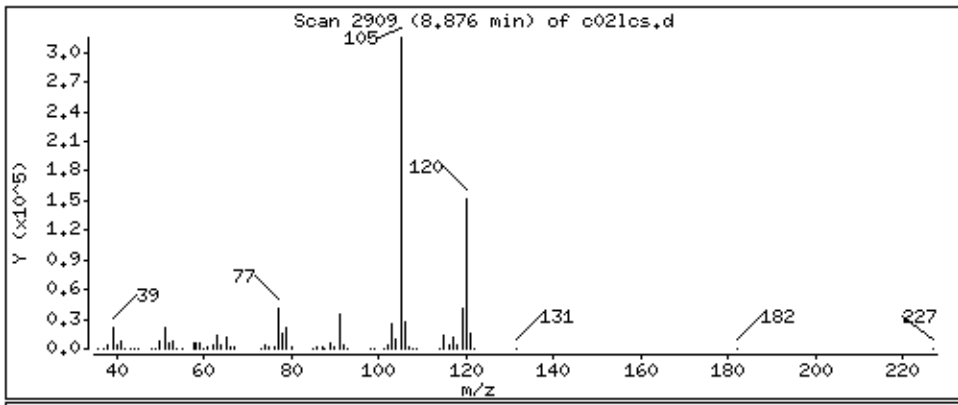
Operator: dae

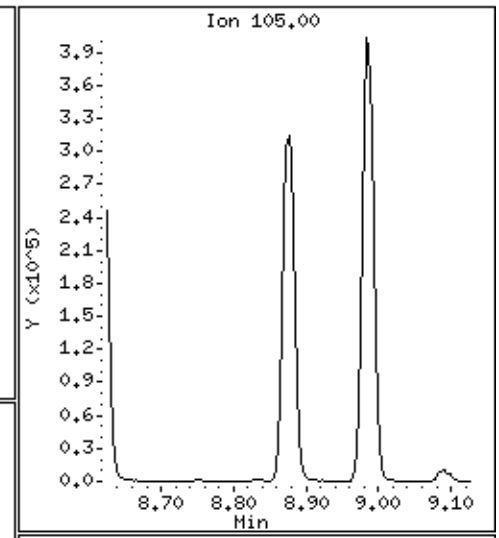
Column phase: DB-624

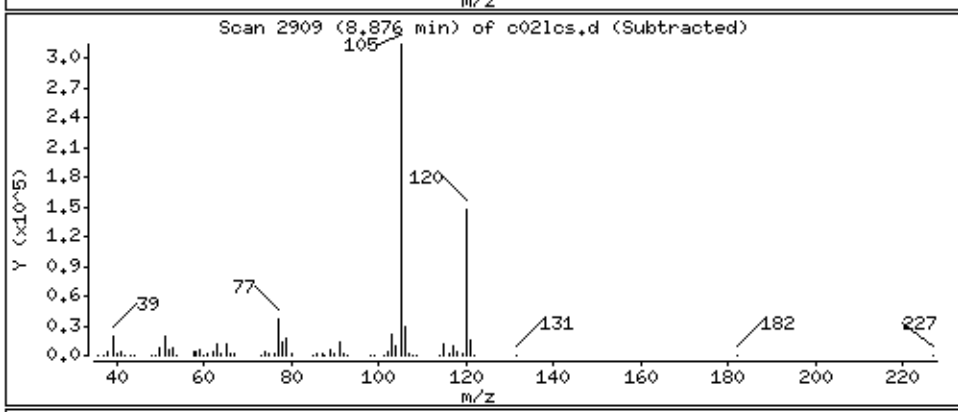
Column diameter: 0.18

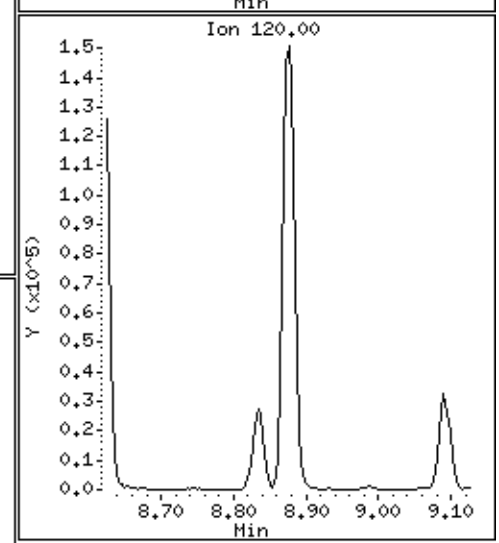
87 1,2,4-Trimethylbenzene

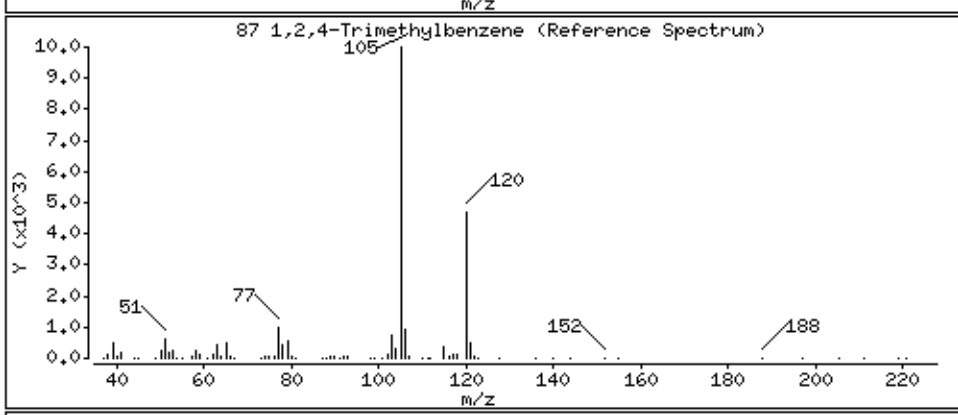
Concentration: 51.3 ppb

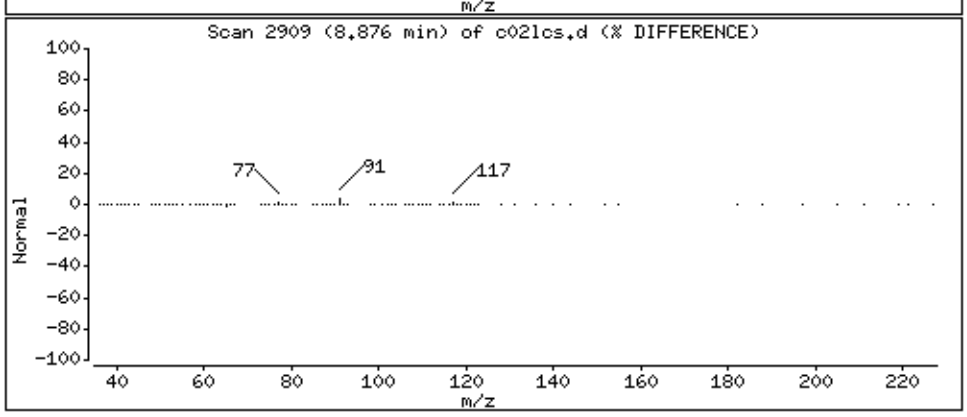












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

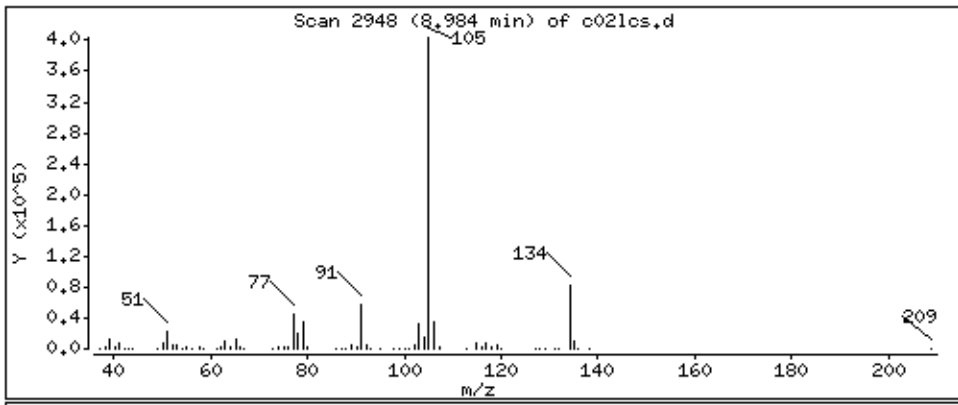
Operator: dae

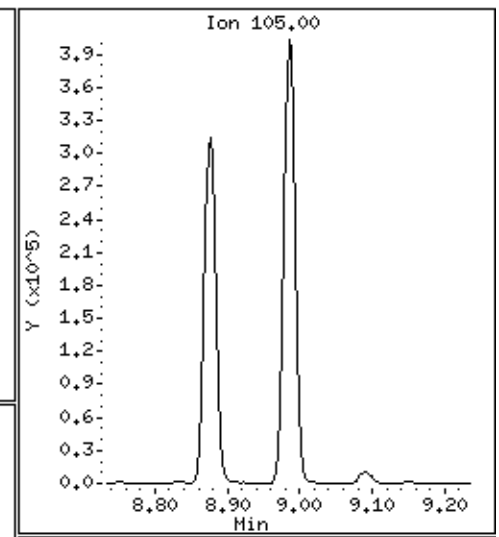
Column phase: DB-624

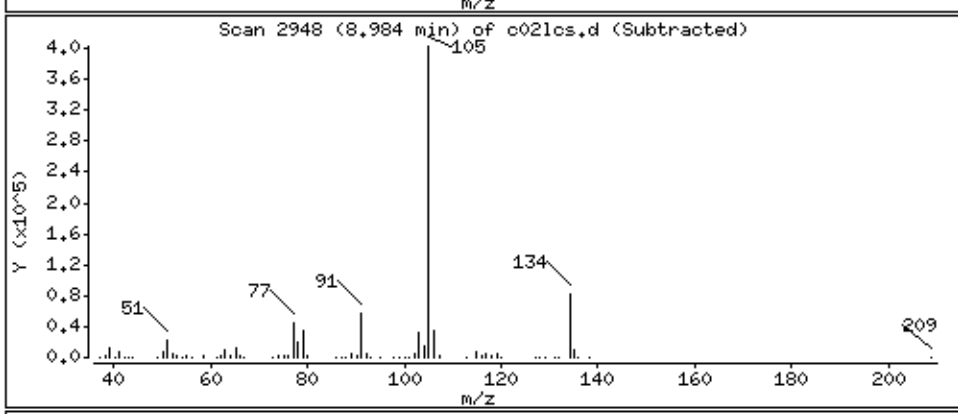
Column diameter: 0.18

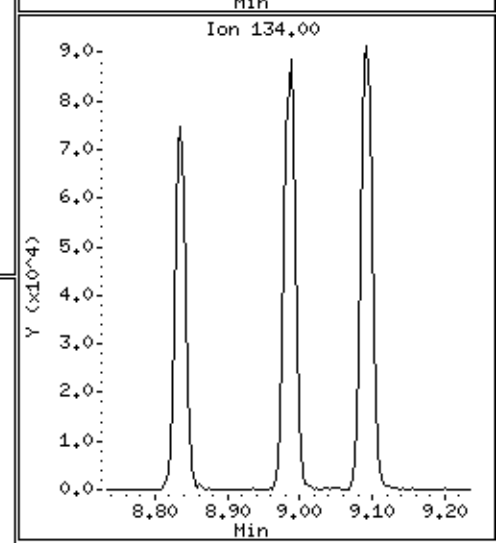
88 sec-Butylbenzene

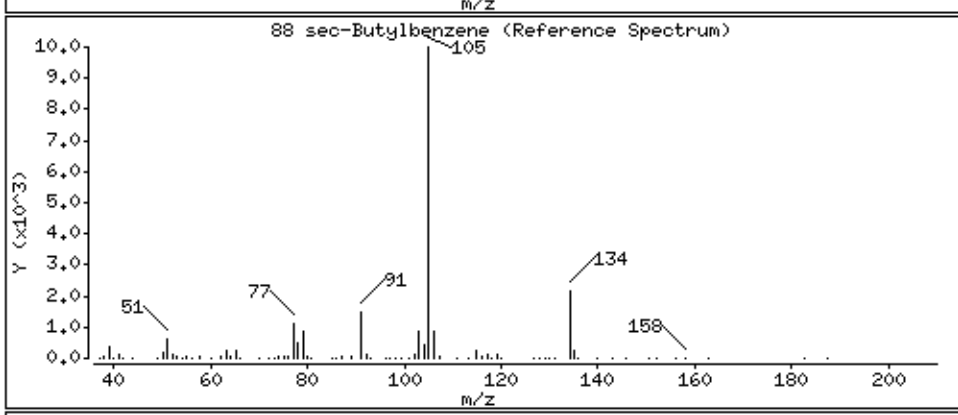
Concentration: 52.9 ppb

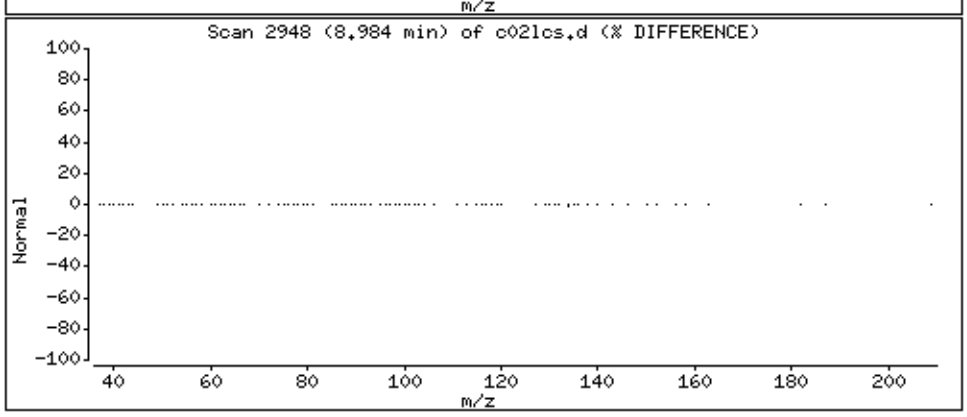












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

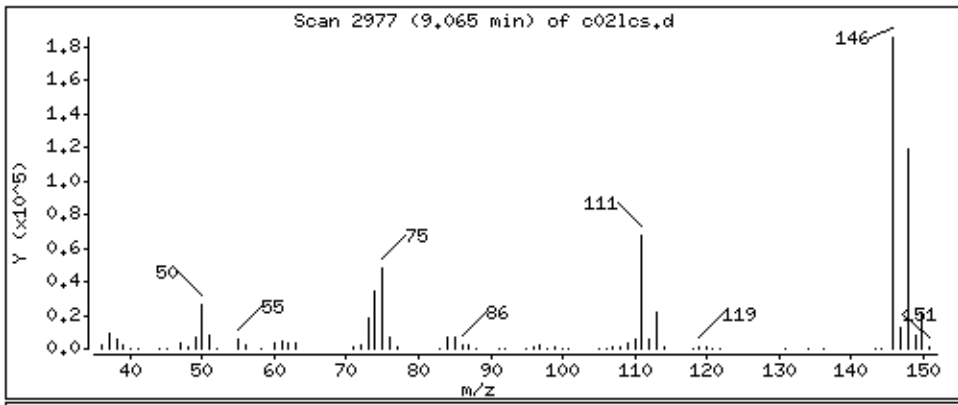
Operator: dae

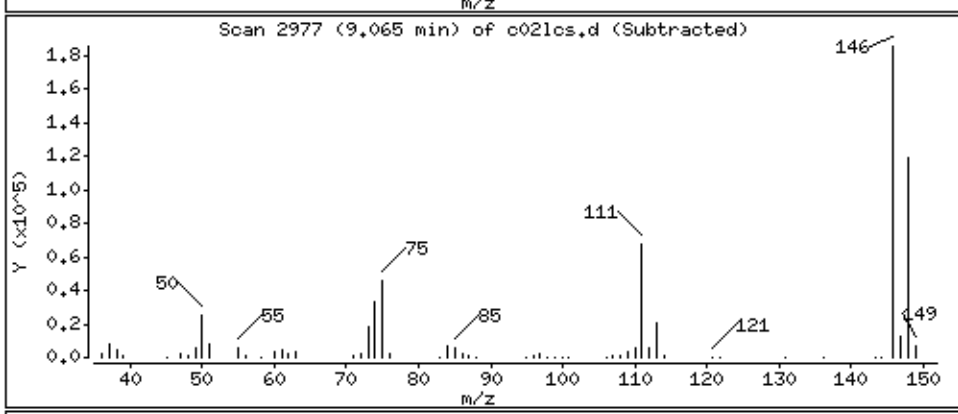
Column phase: DB-624

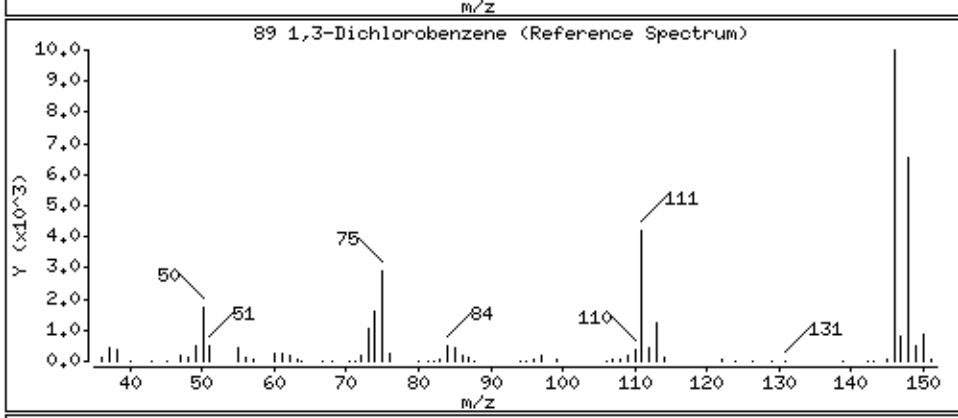
Column diameter: 0.18

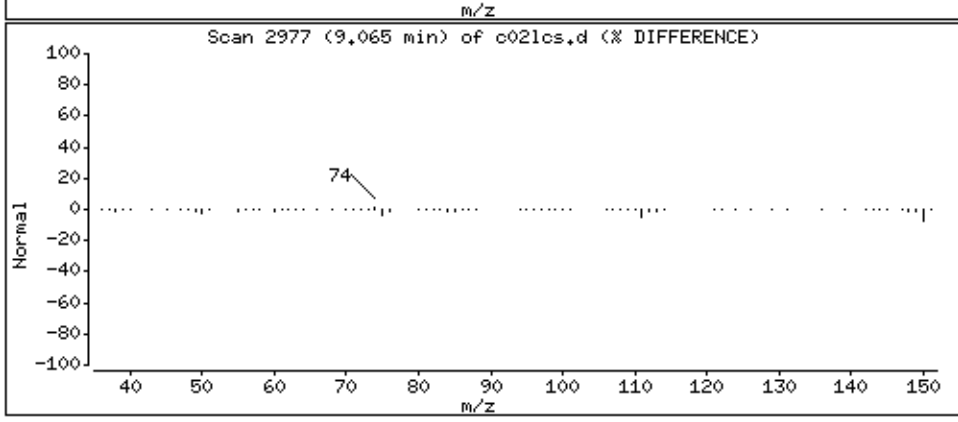
89 1,3-Dichlorobenzene

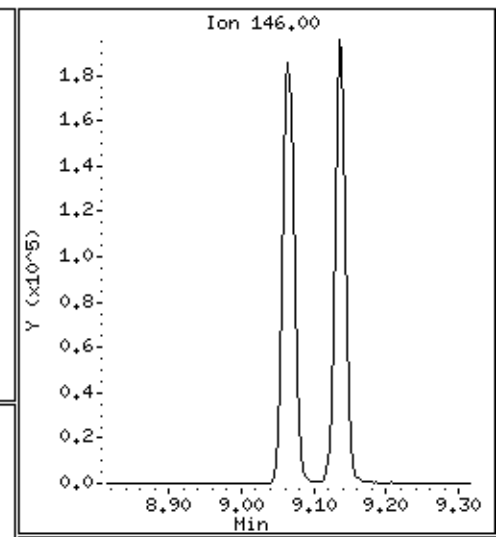
Concentration: 48.6 ppb

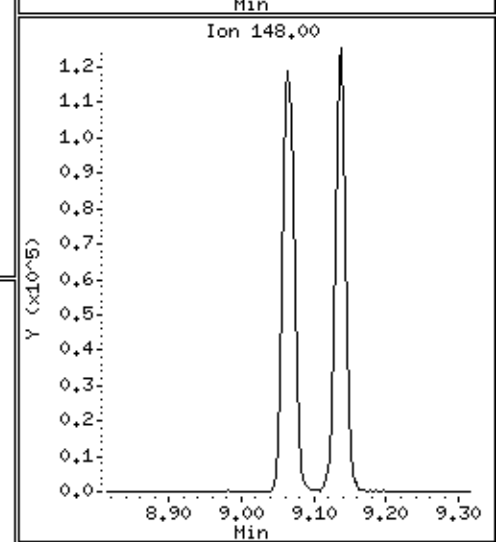


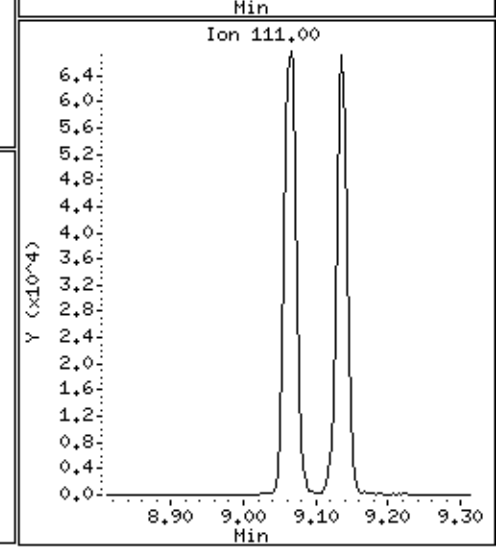












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

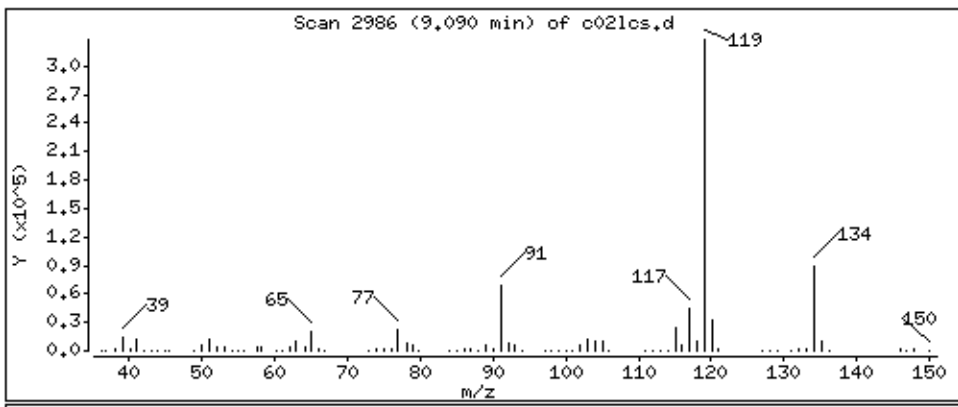
Operator: dae

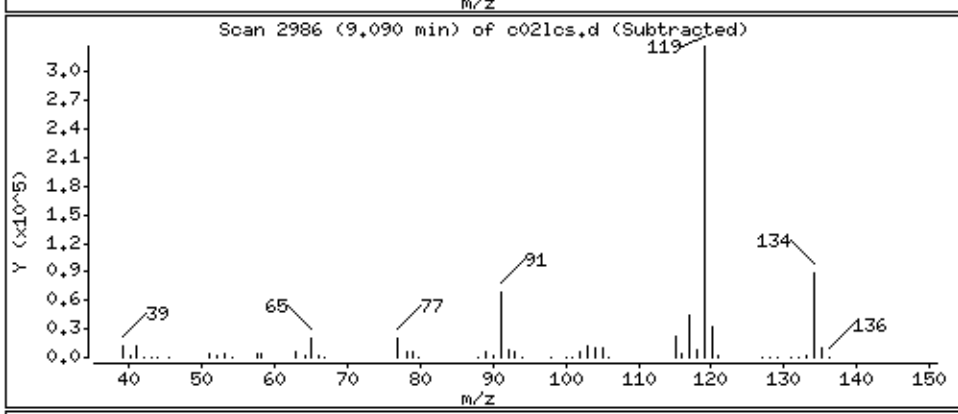
Column phase: DB-624

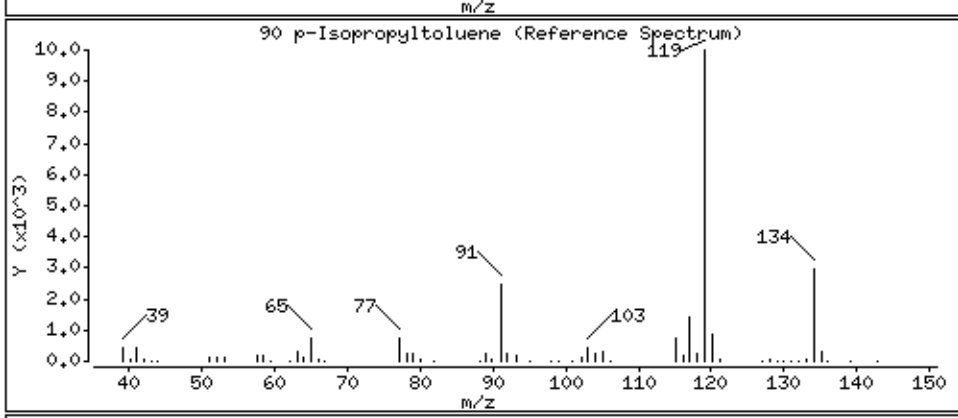
Column diameter: 0.18

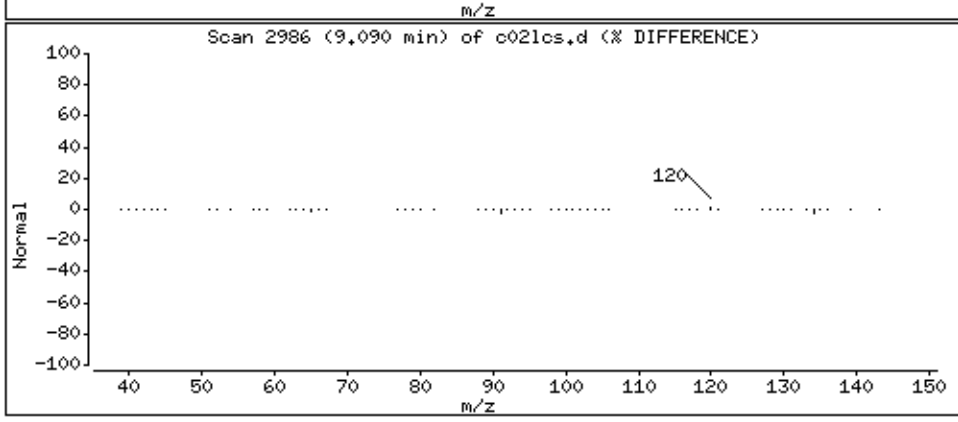
90 p-Isopropyltoluene

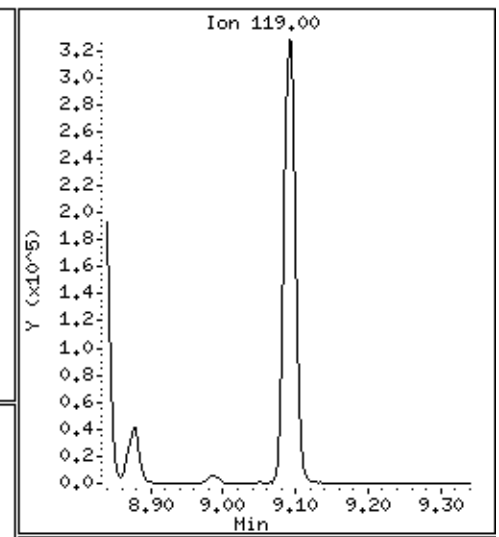
Concentration: 53.2 ppb

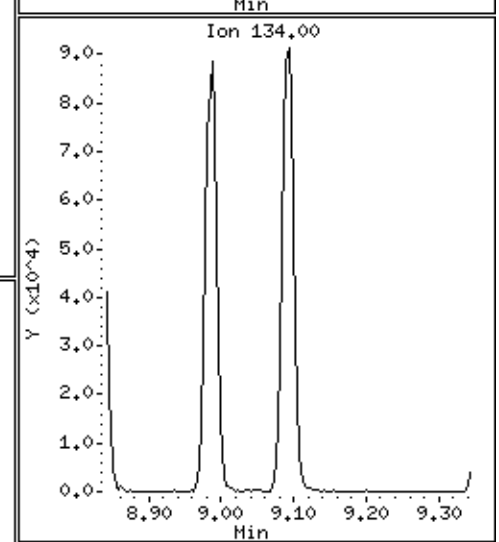


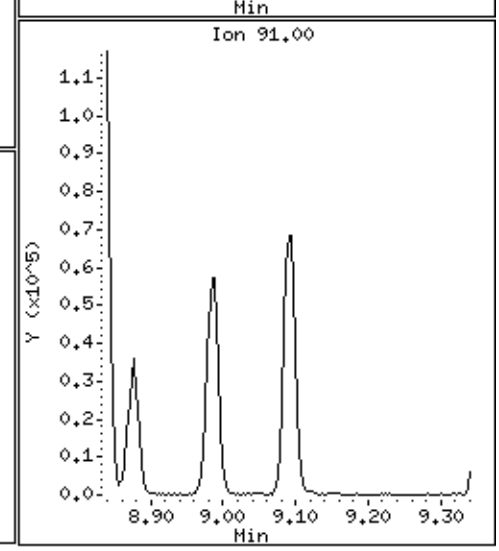












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

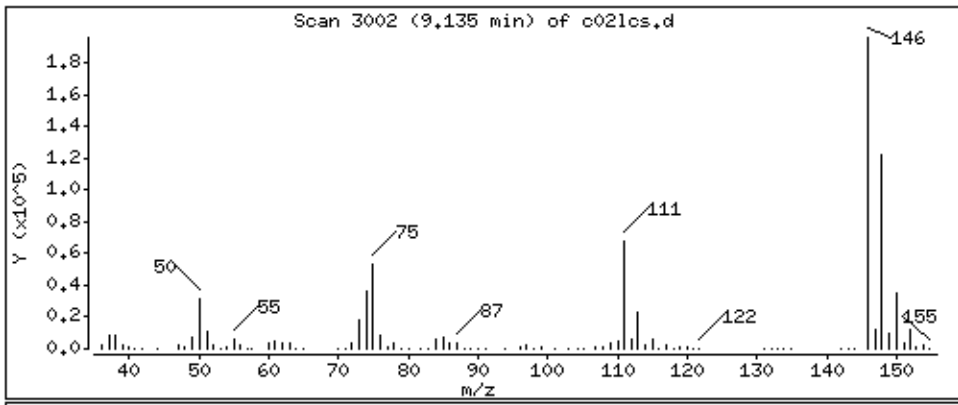
Operator: dae

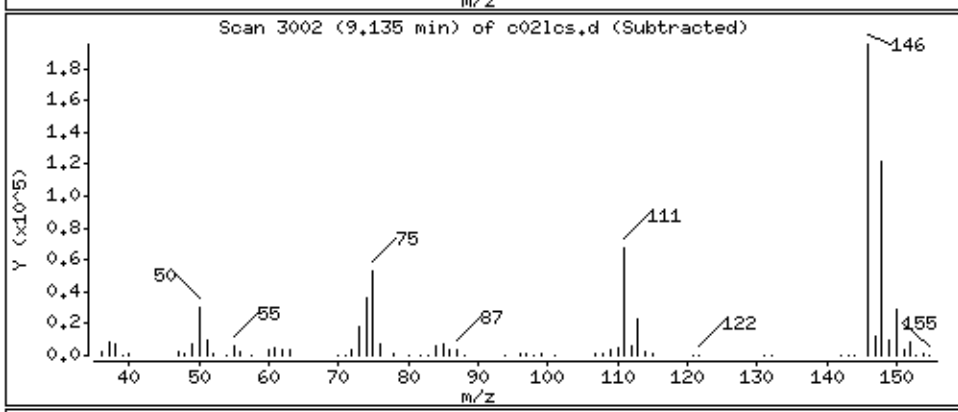
Column phase: DB-624

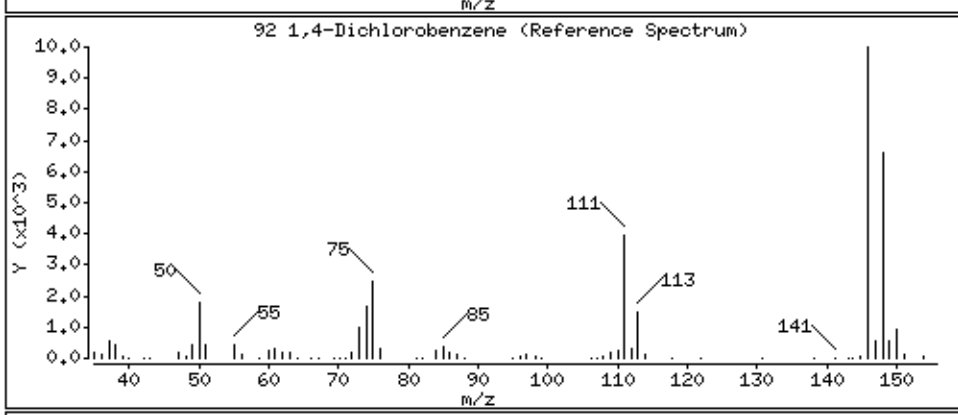
Column diameter: 0.18

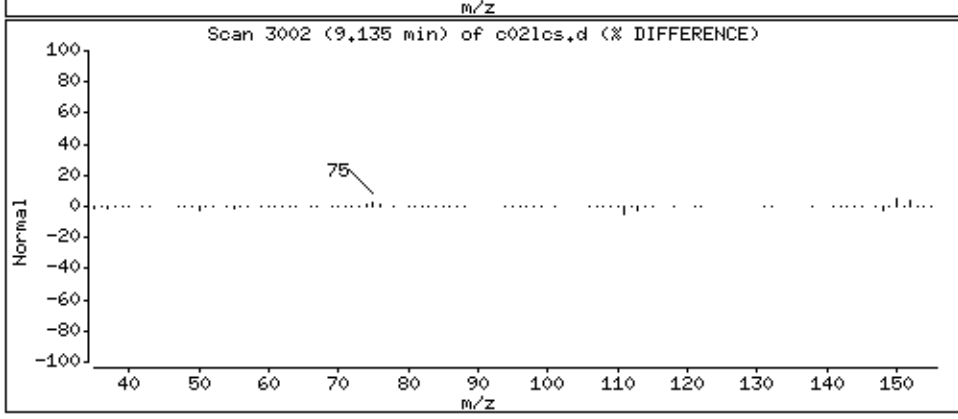
92 1,4-Dichlorobenzene

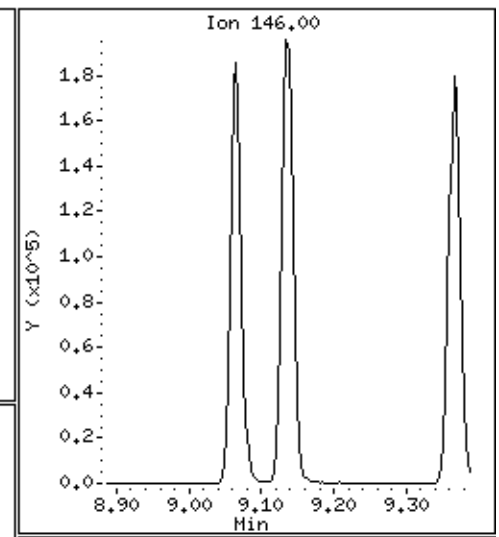
Concentration: 46.8 ppb

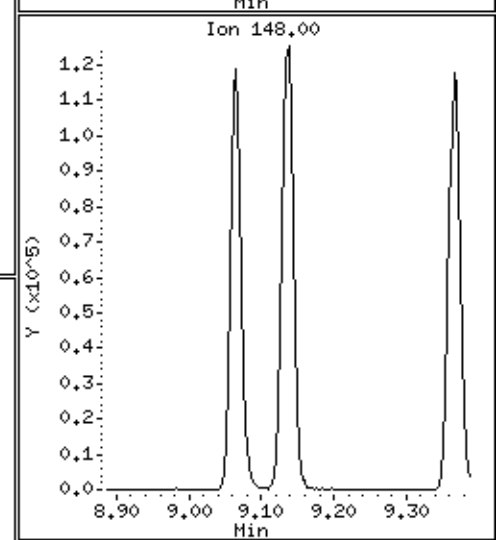


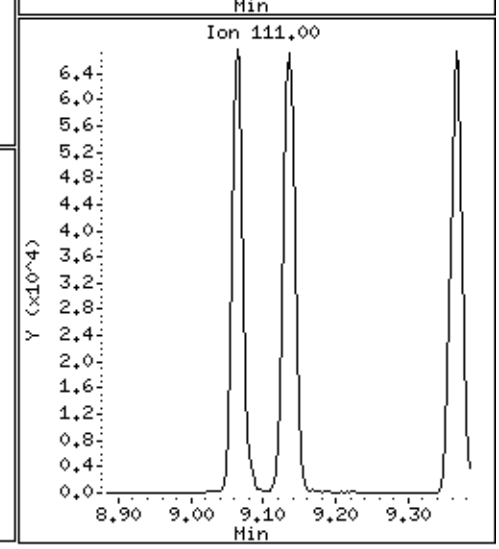












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

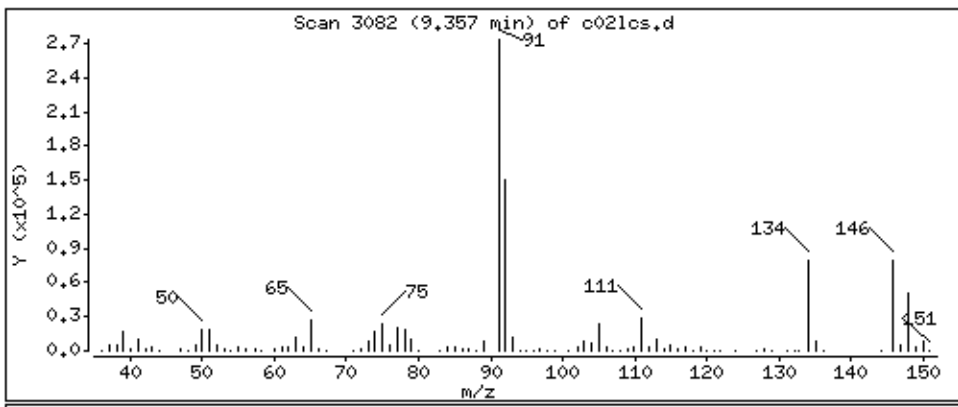
Operator: dae

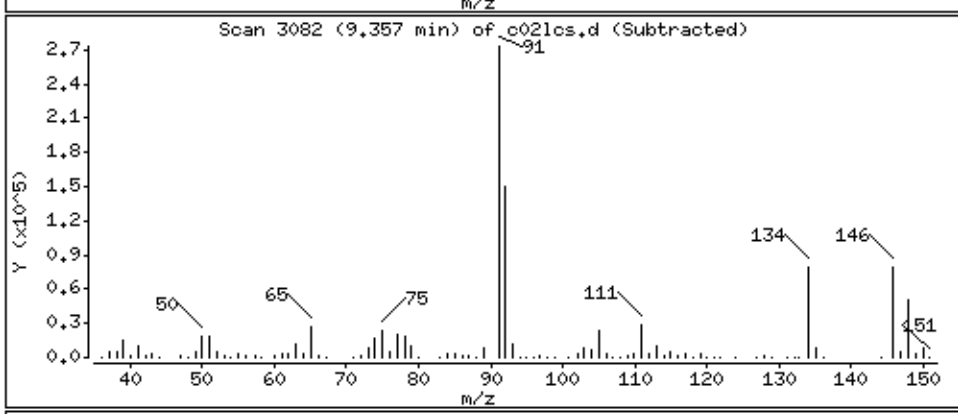
Column phase: DB-624

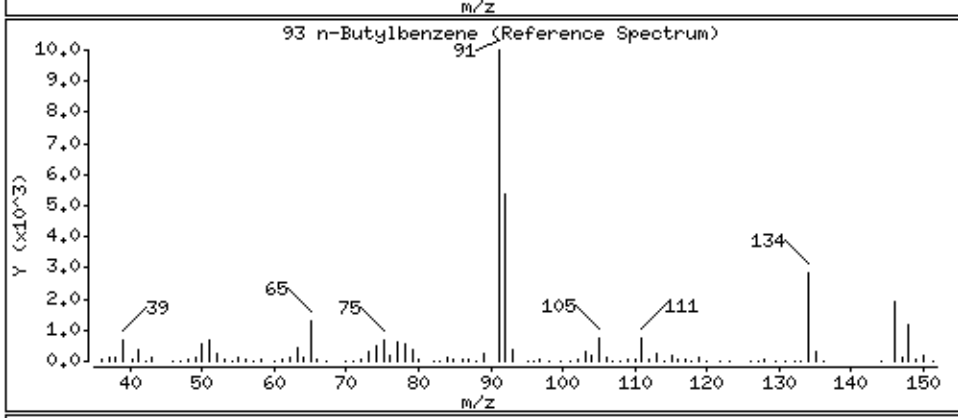
Column diameter: 0.18

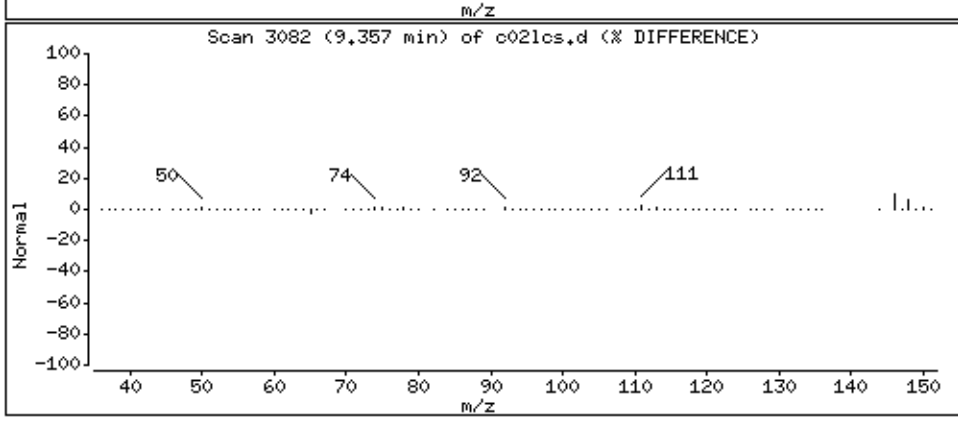
93 n-Butylbenzene

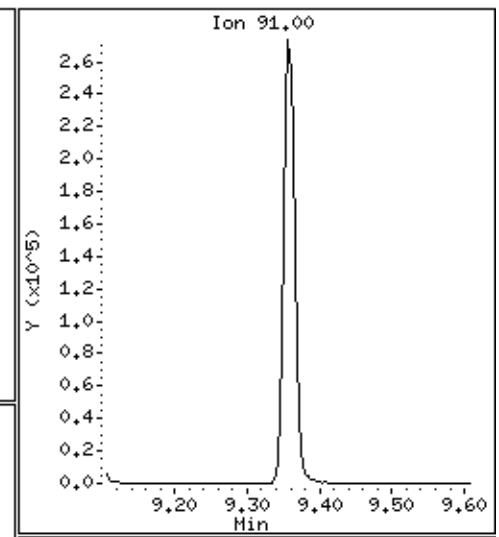
Concentration: 50.9 ppb

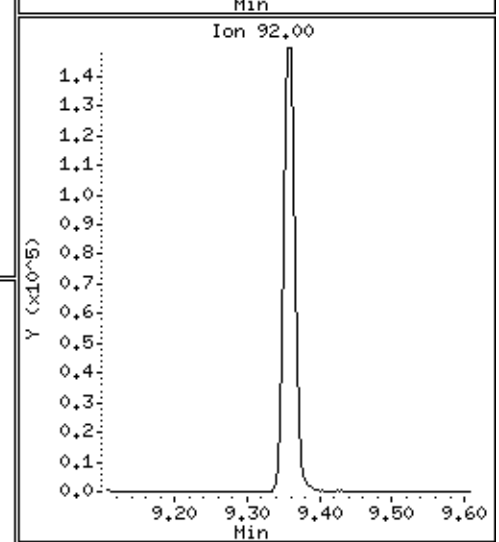


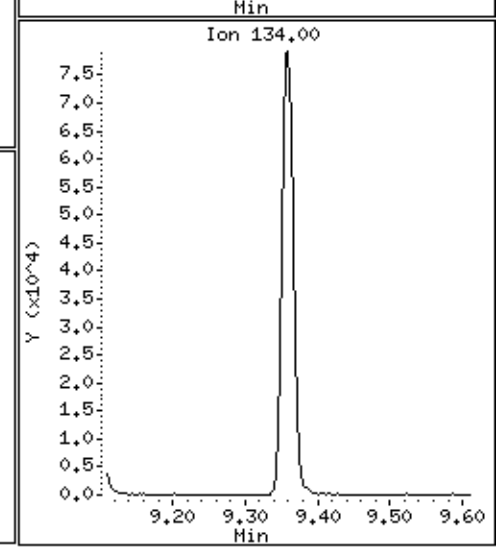












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

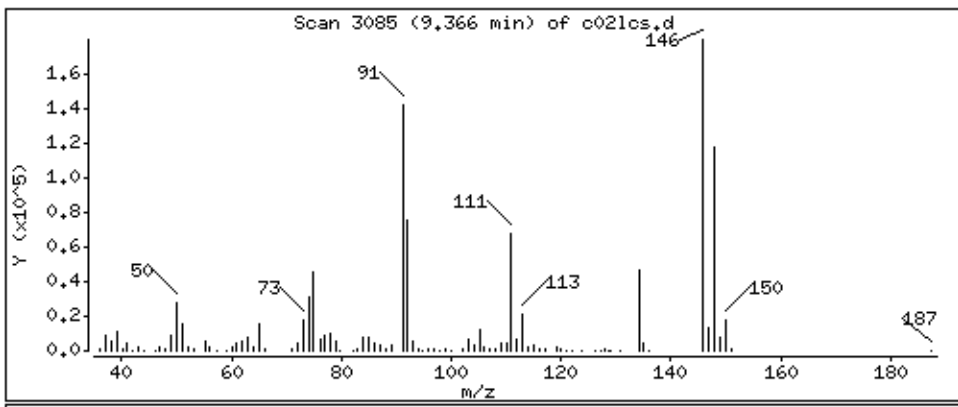
Operator: dae

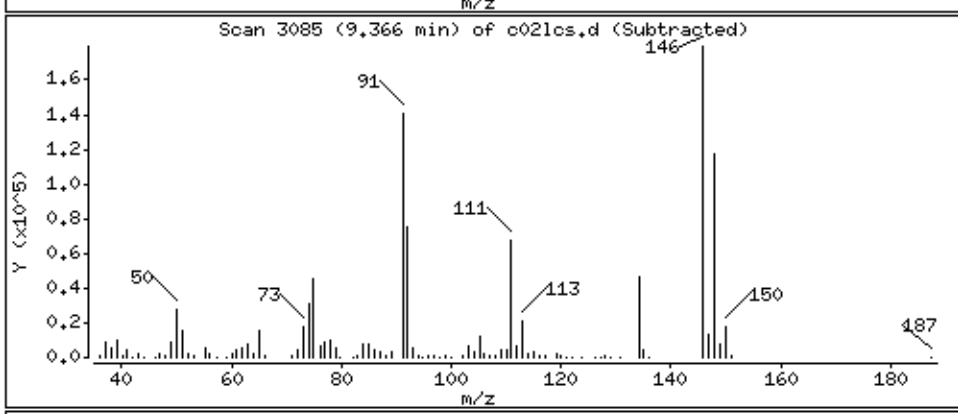
Column phase: DB-624

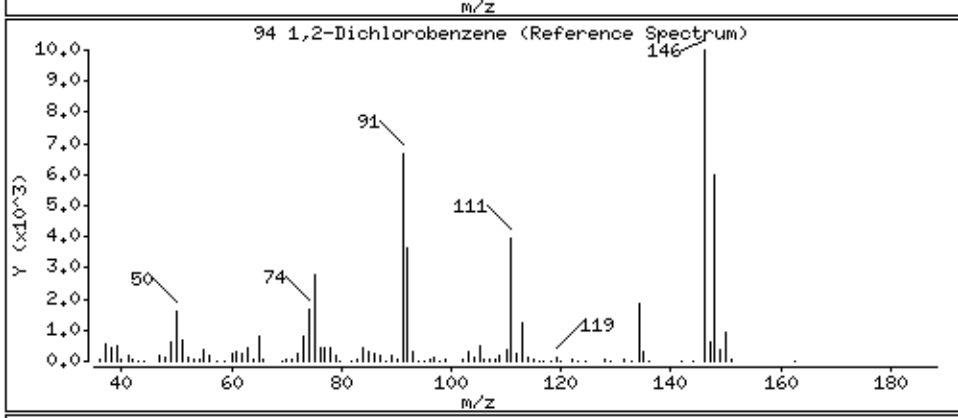
Column diameter: 0.18

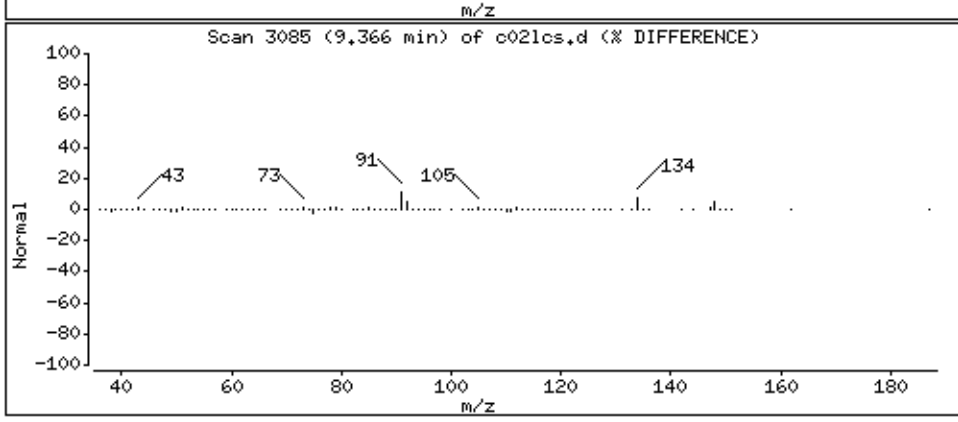
94 1,2-Dichlorobenzene

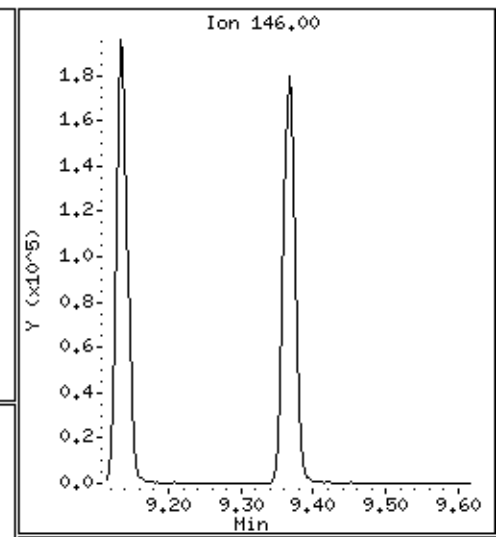
Concentration: 49.6 ppb

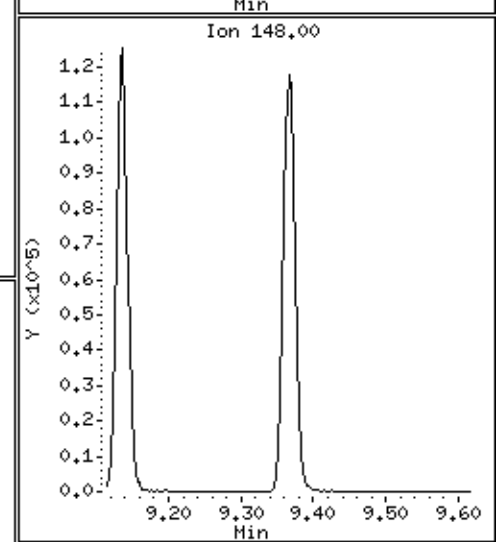


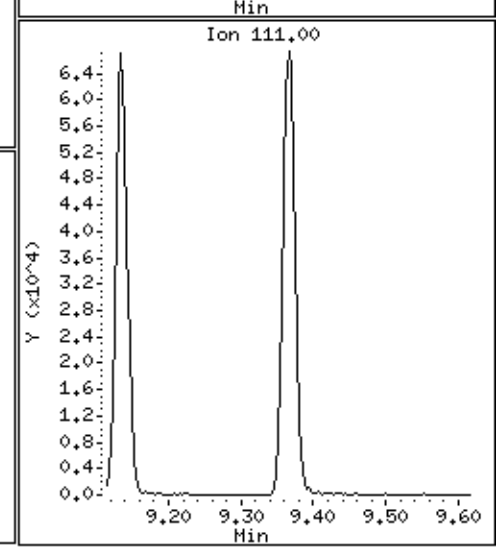












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

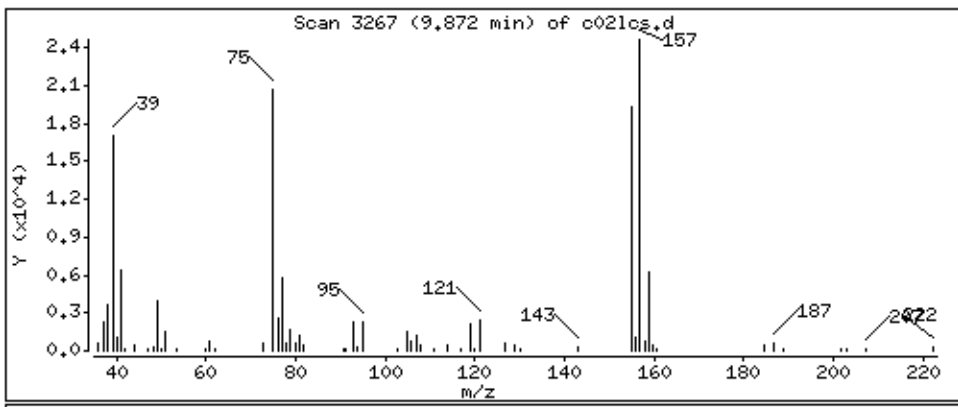
Operator: dae

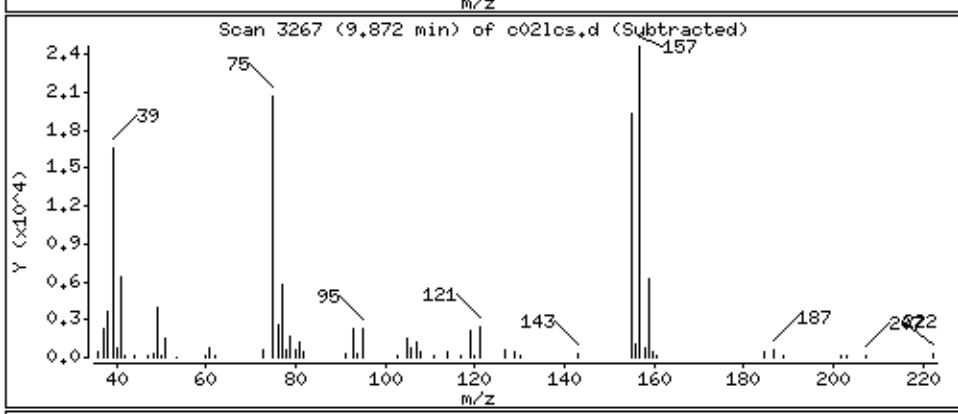
Column phase: DB-624

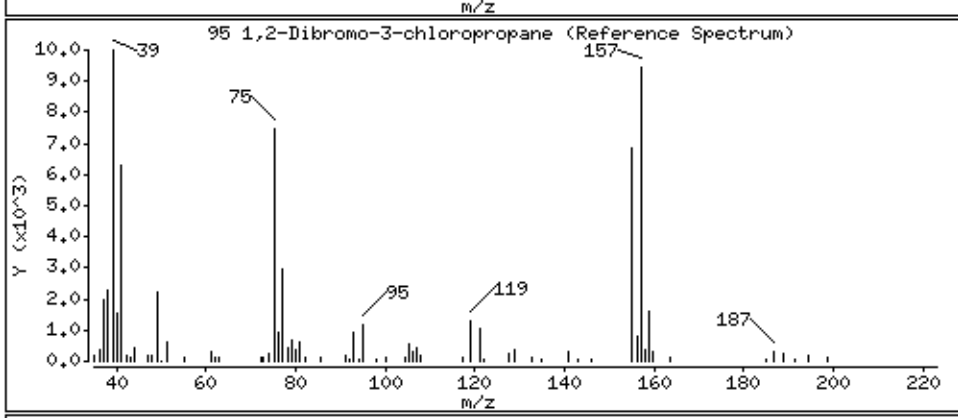
Column diameter: 0.18

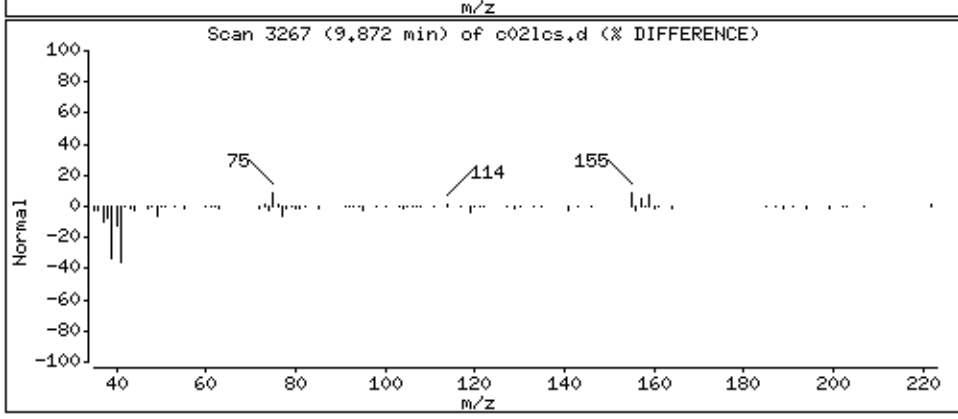
95 1,2-Dibromo-3-chloropropane

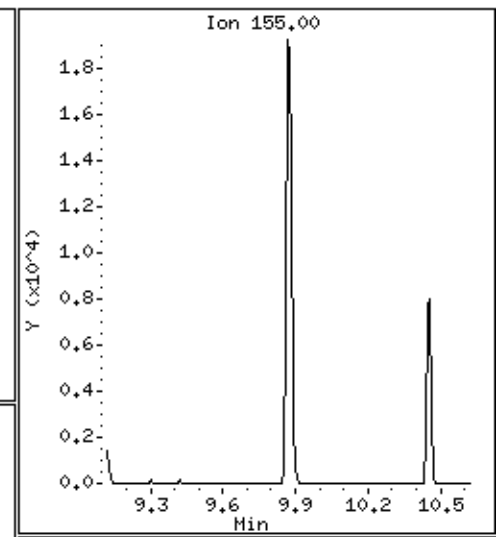
Concentration: 44.2 ppb

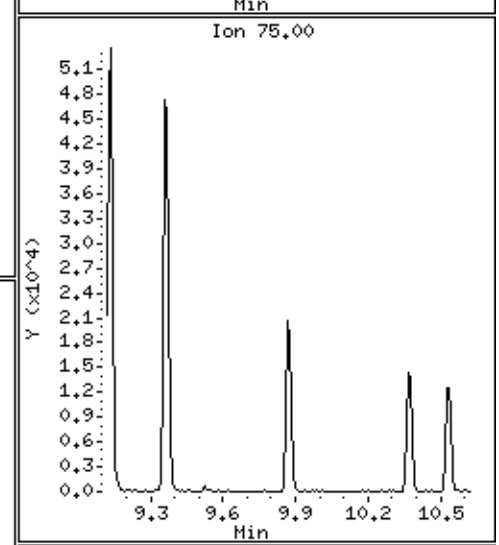


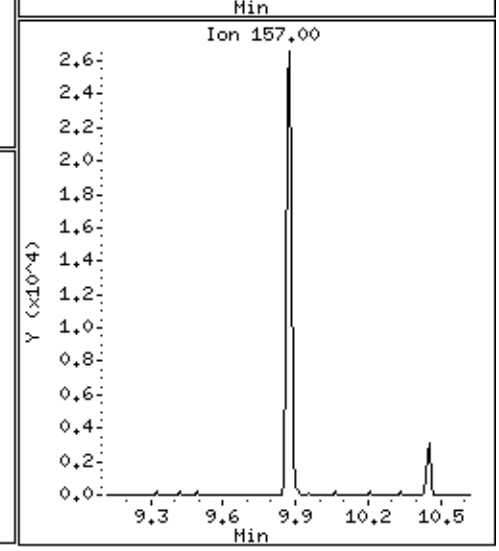












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

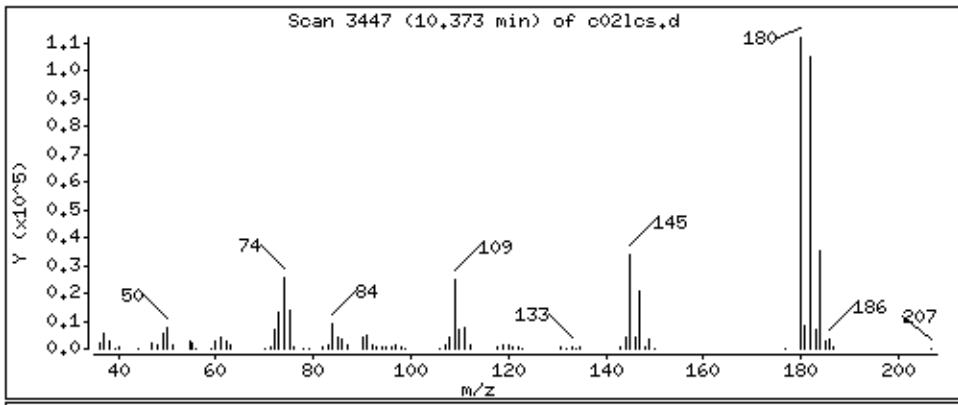
Operator: dae

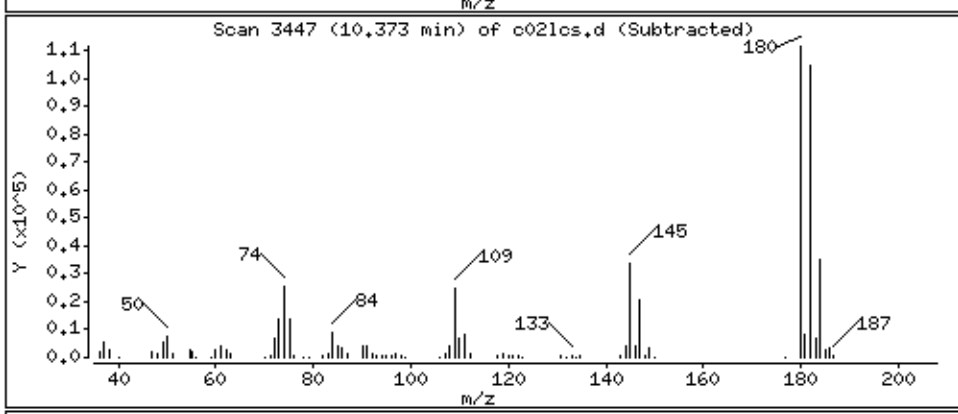
Column phase: DB-624

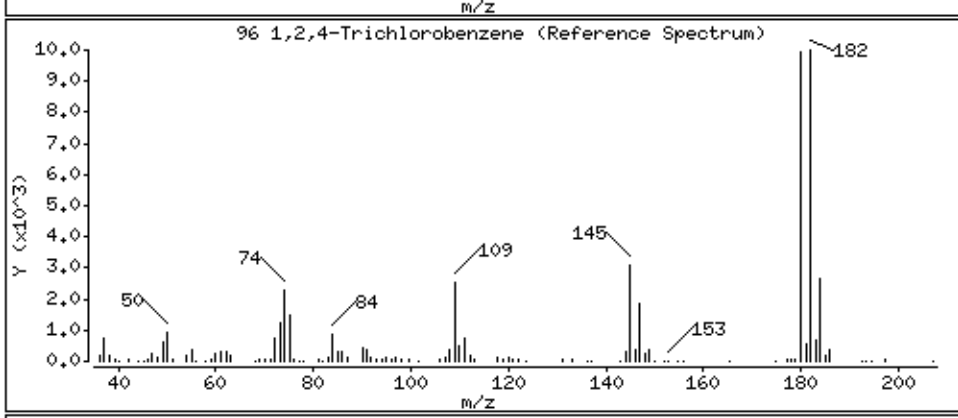
Column diameter: 0.18

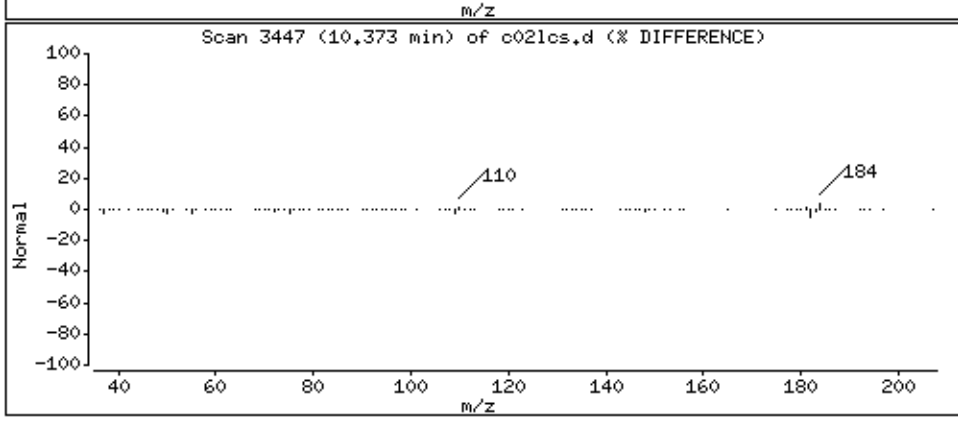
96 1,2,4-Trichlorobenzene

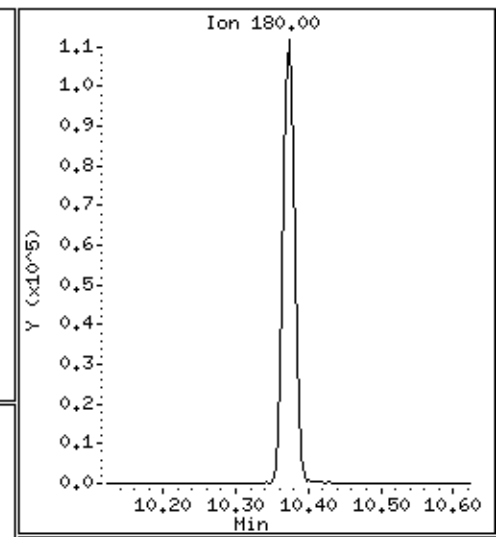
Concentration: 47.8 ppb

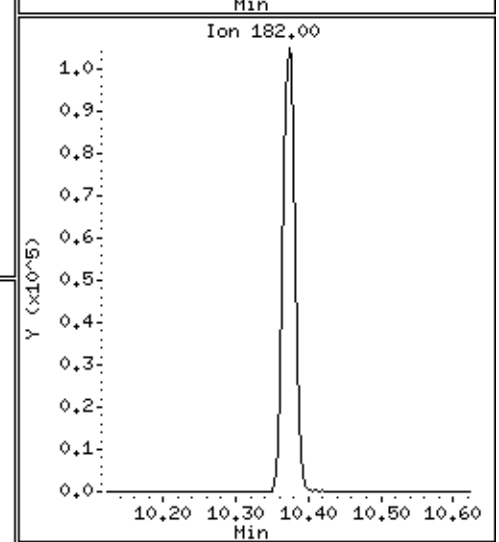


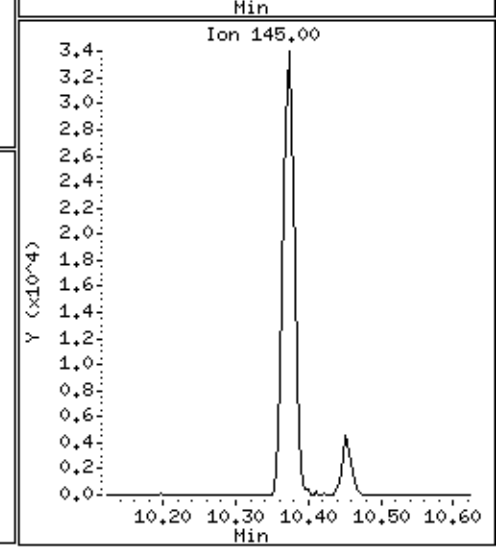












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

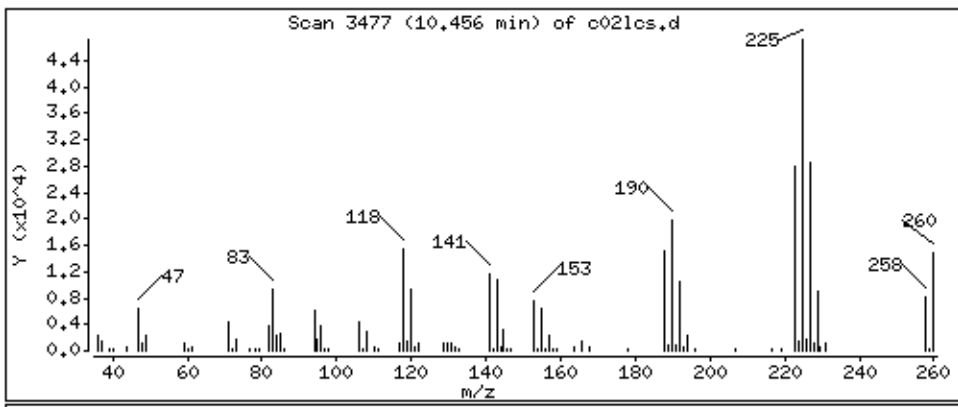
Operator: dae

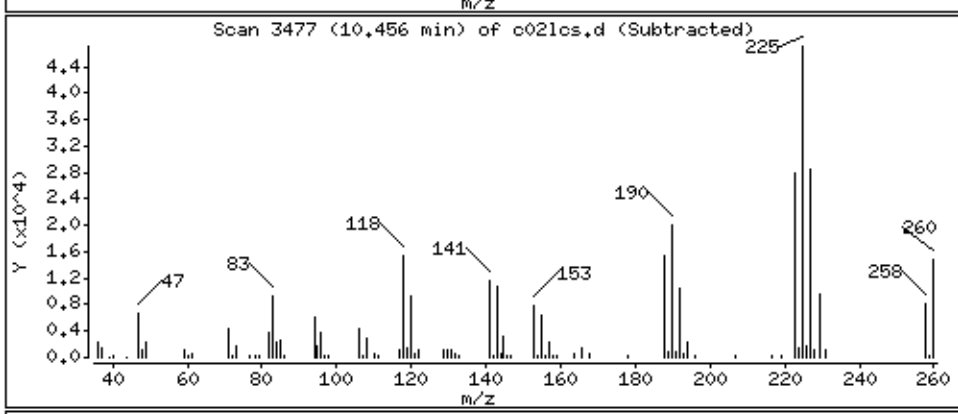
Column phase: DB-624

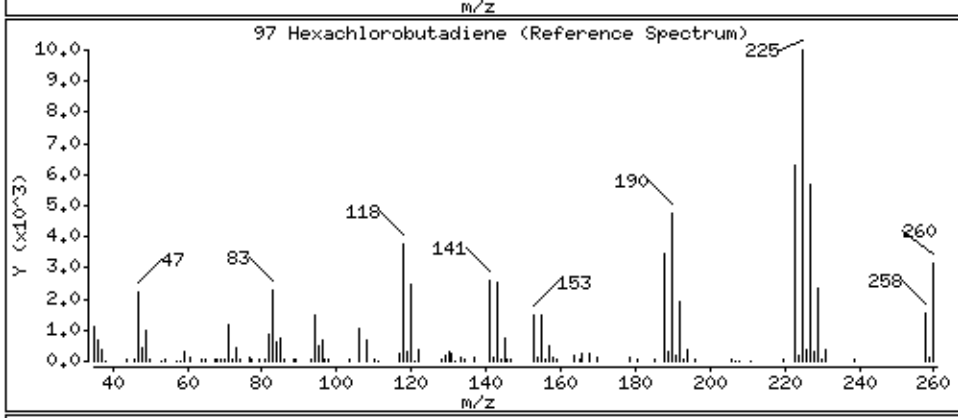
Column diameter: 0.18

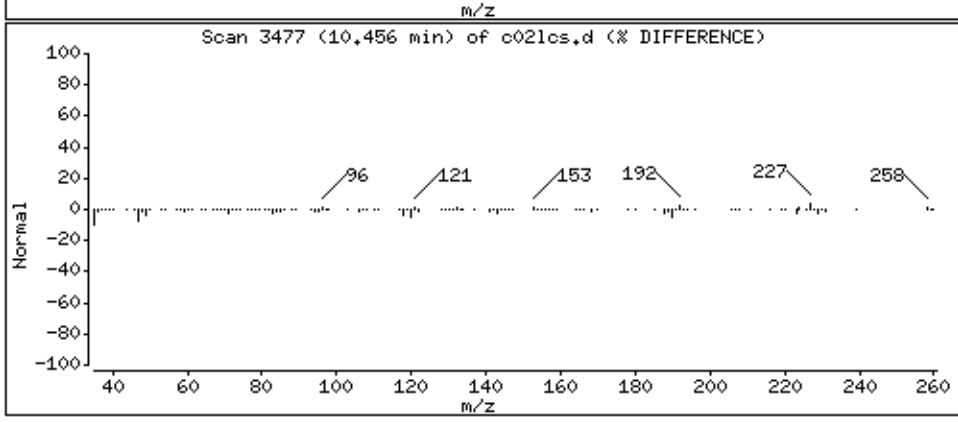
97 Hexachlorobutadiene

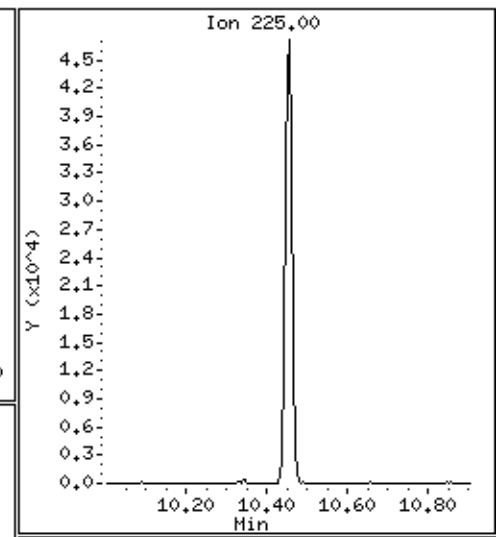
Concentration: 48.6 ppb

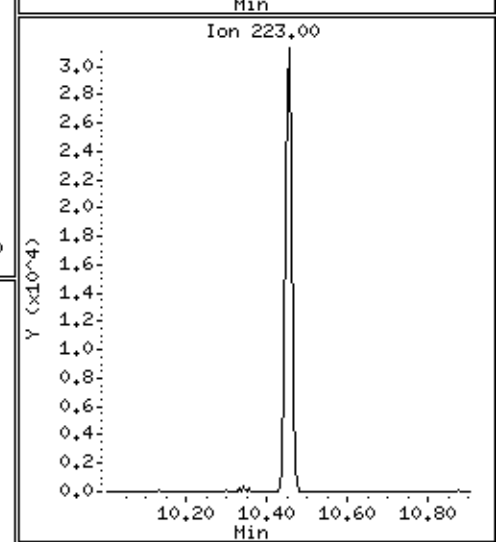


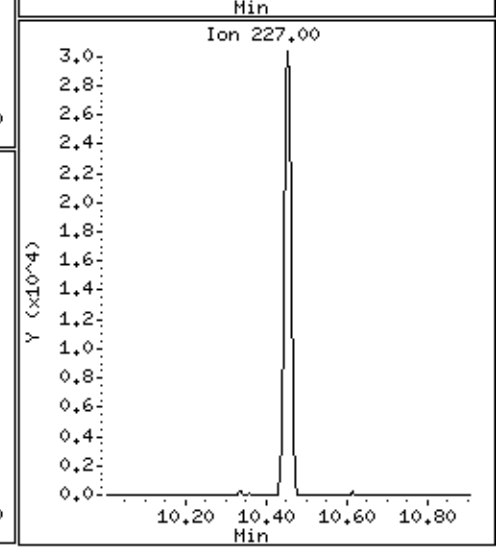












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

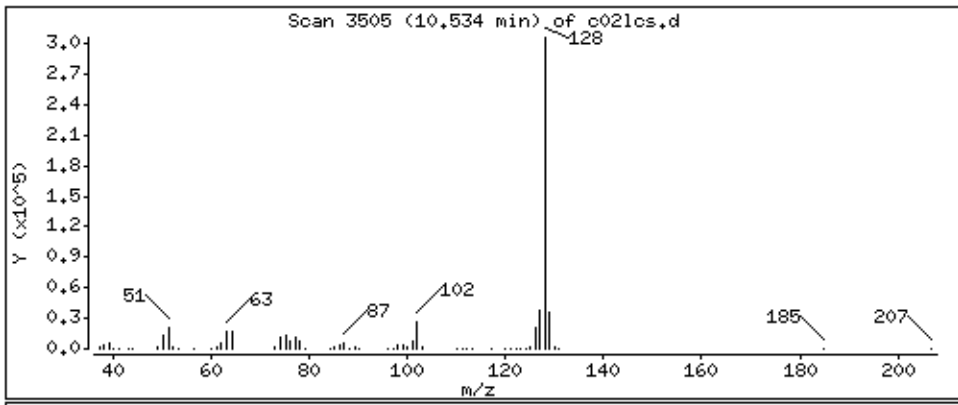
Operator: dae

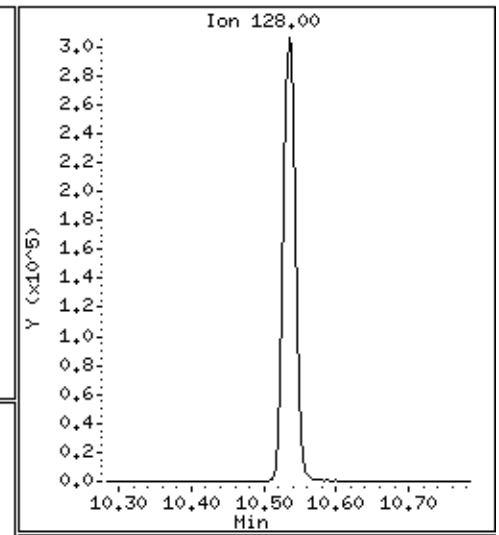
Column phase: DB-624

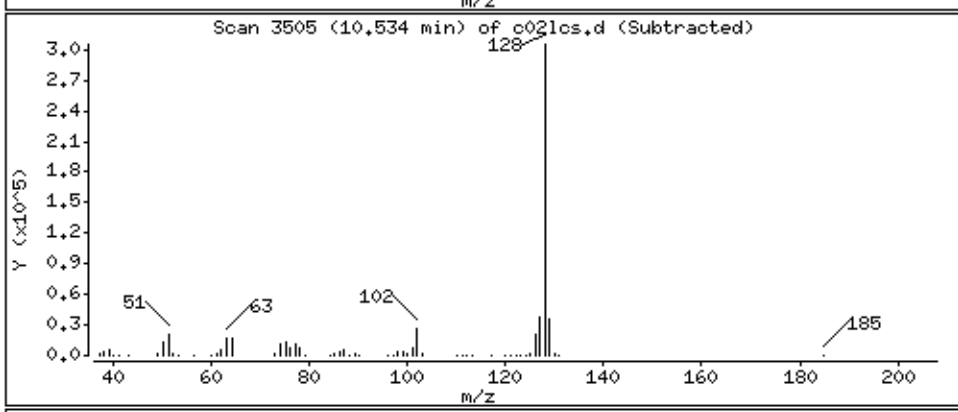
Column diameter: 0.18

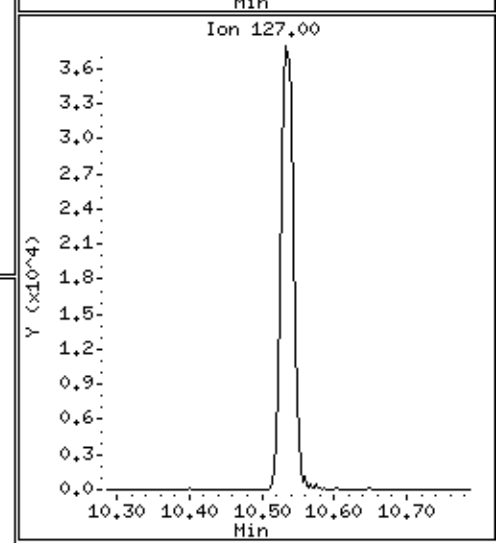
98 Naphthalene

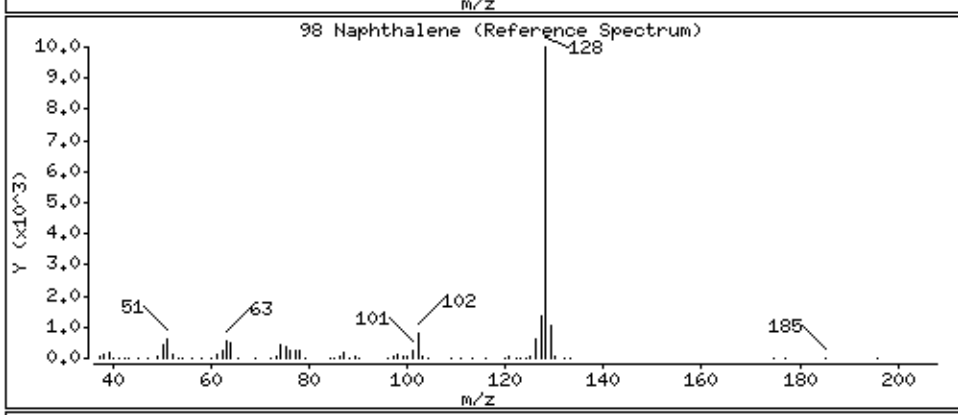
Concentration: 46.8 ppb

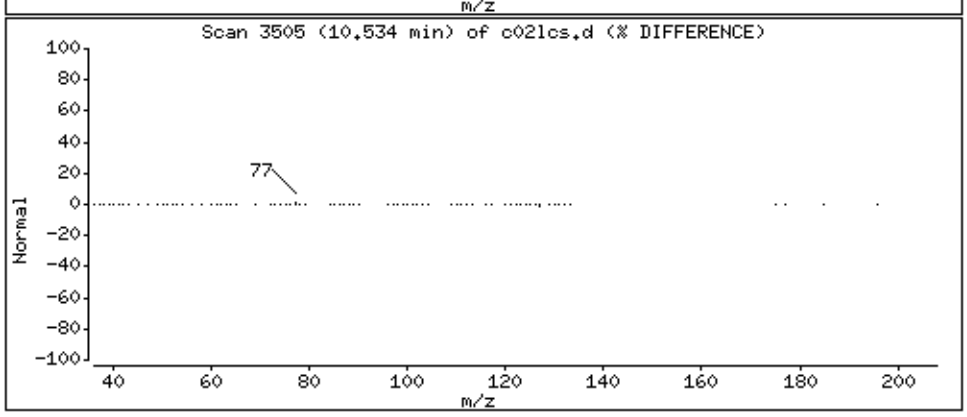












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

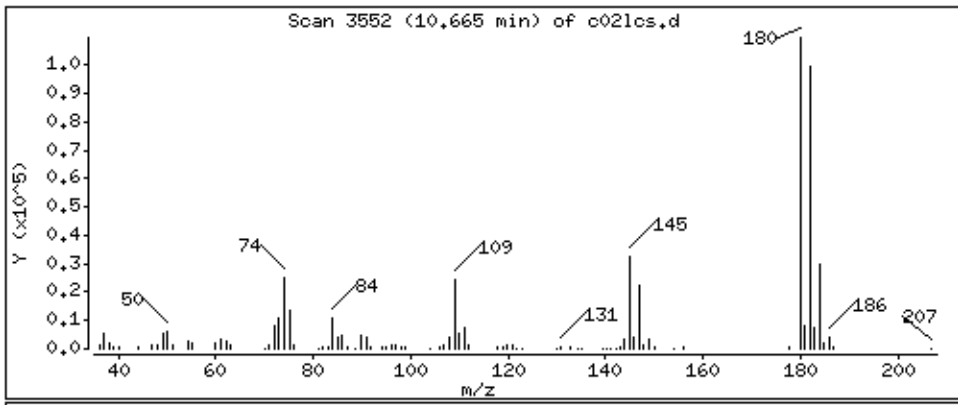
Operator: dae

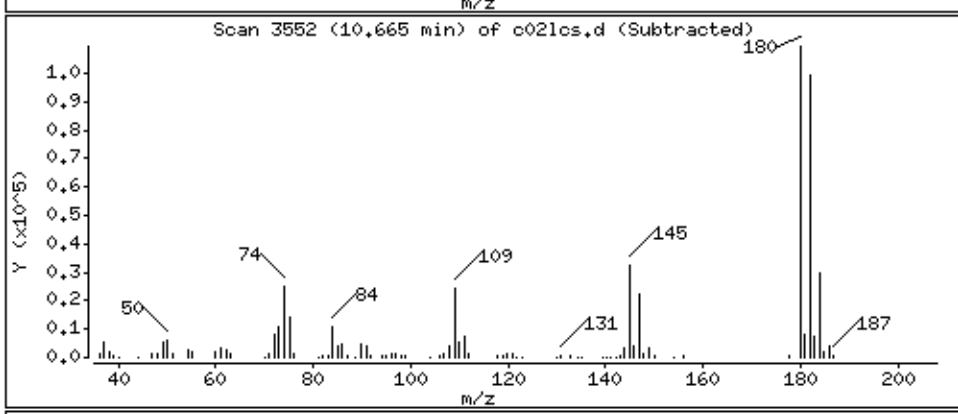
Column phase: DB-624

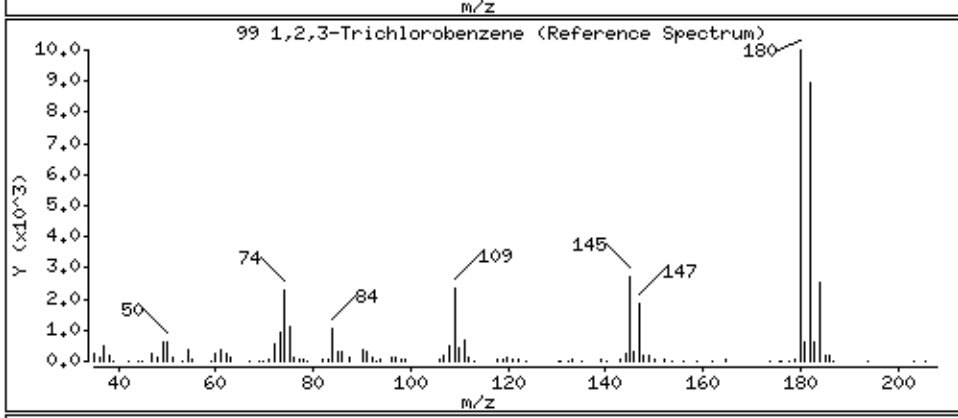
Column diameter: 0.18

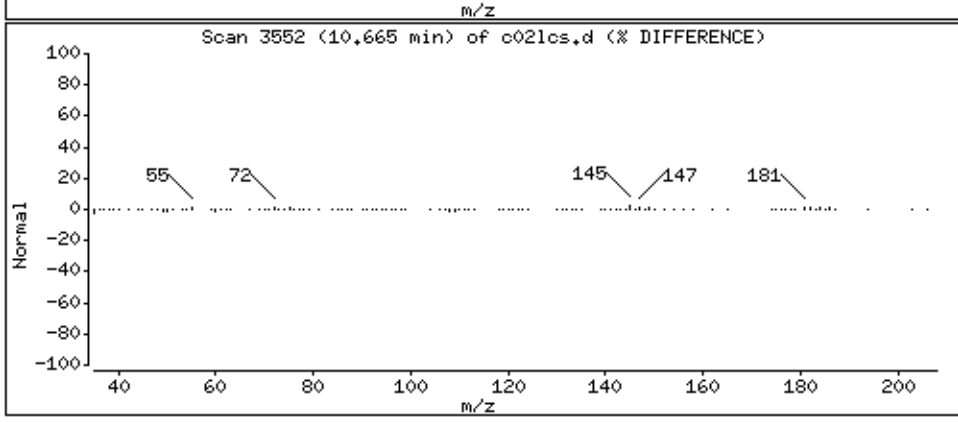
99 1,2,3-Trichlorobenzene

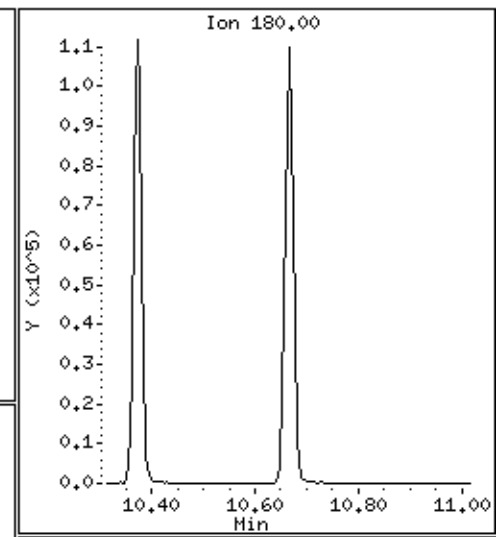
Concentration: 50.4 ppb

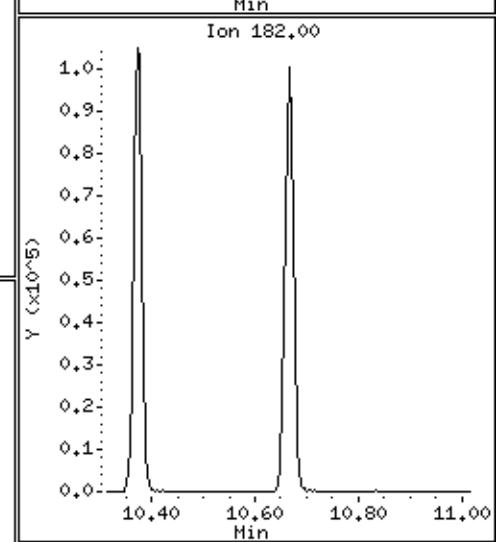


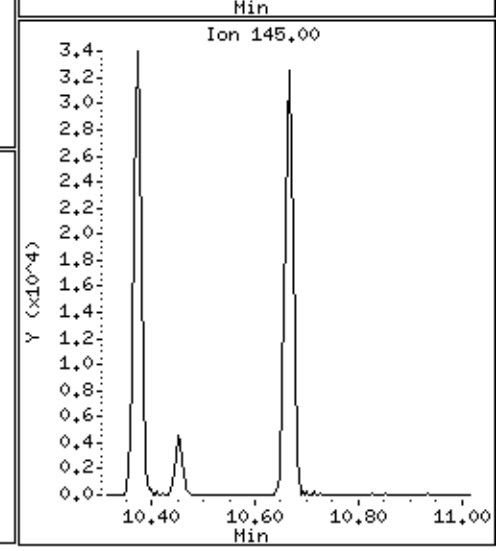












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

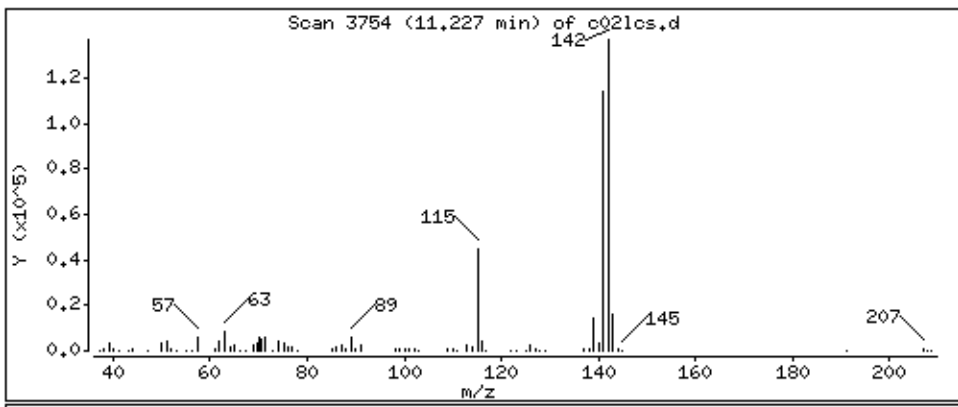
Operator: dae

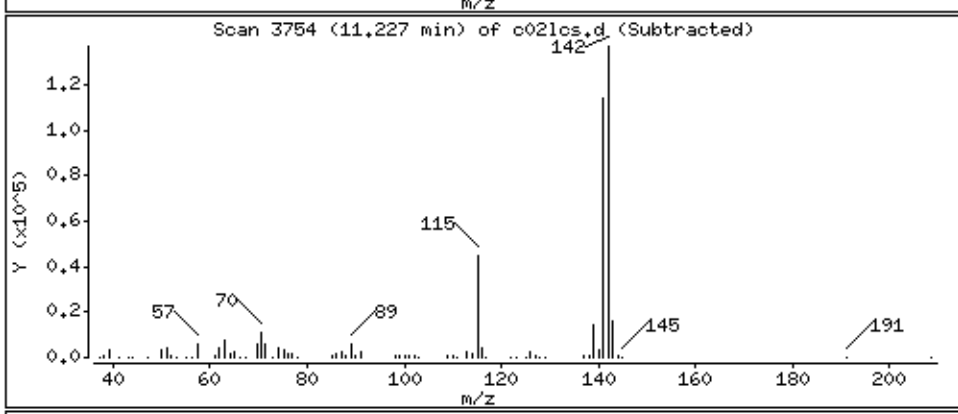
Column phase: DB-624

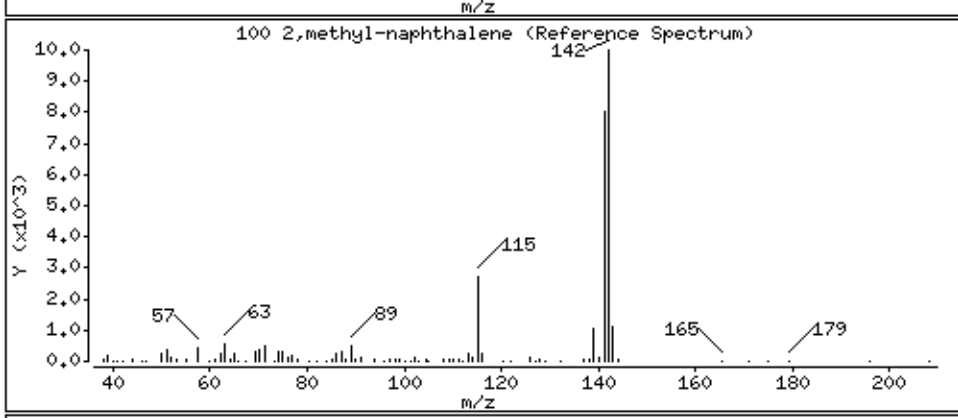
Column diameter: 0.18

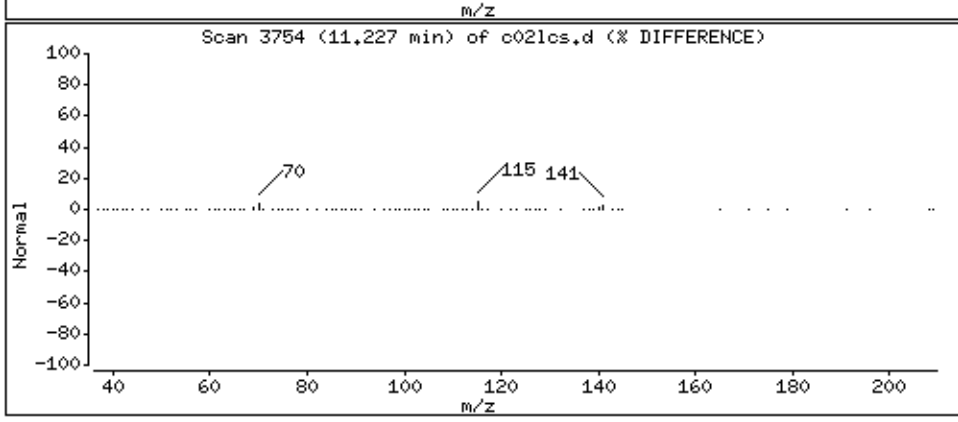
100 2,methyl-naphthalene

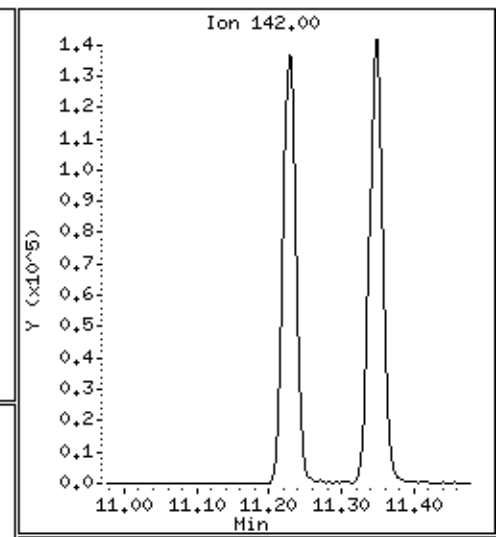
Concentration: 40.1 ppb

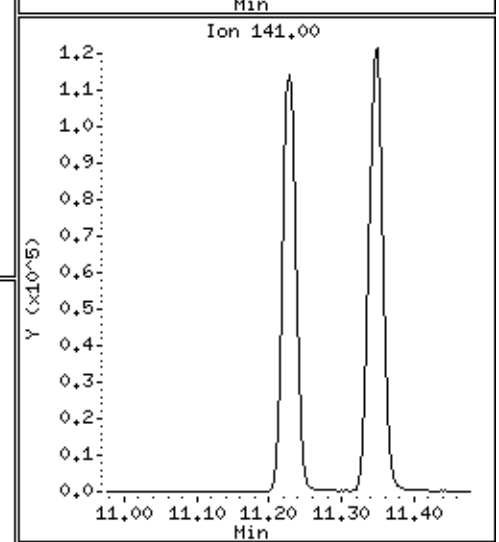


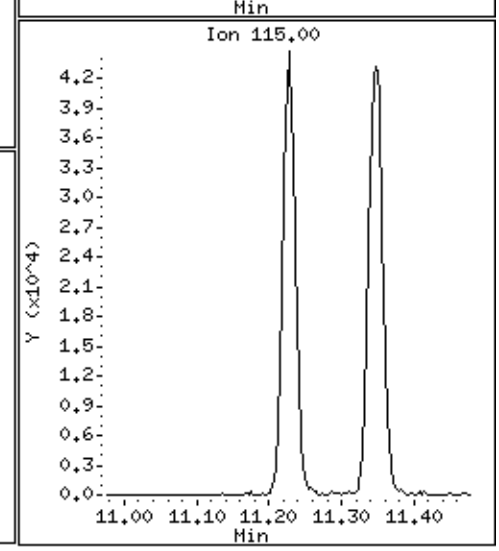












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c02lcs.d

Date : 25-JAN-2017 11:50

Client ID: MBLCS

Instrument: 50mv2a.i

Sample Info: 1713802,140393:5

Purge Volume: 5.0

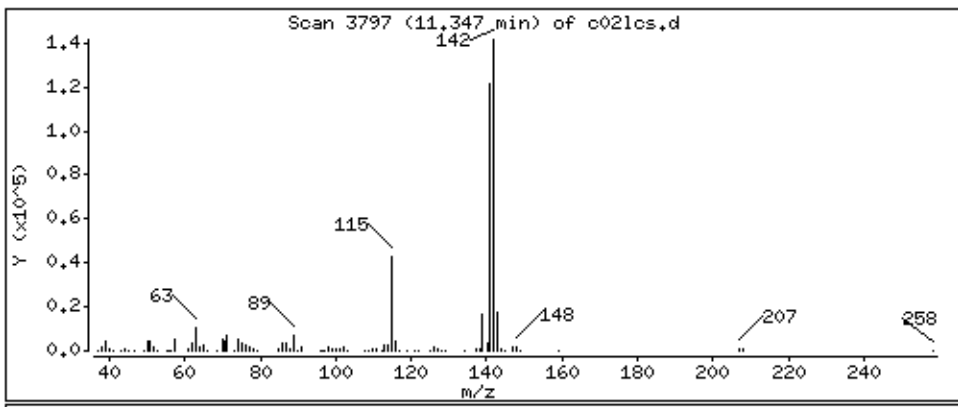
Operator: dae

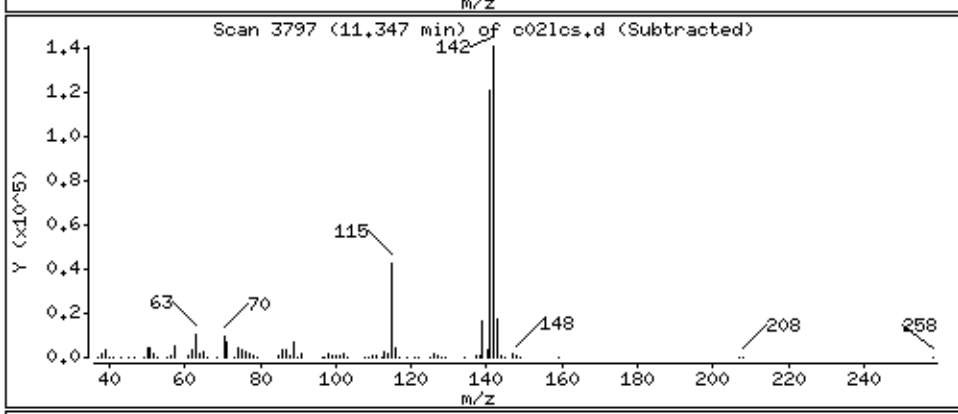
Column phase: DB-624

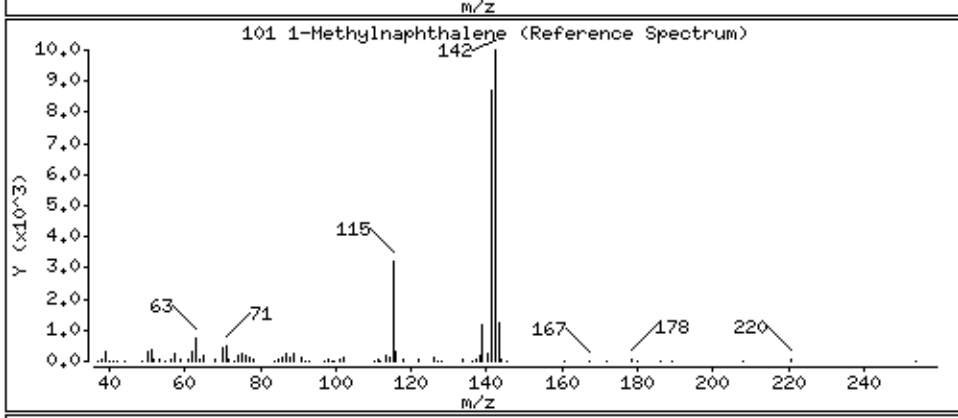
Column diameter: 0.18

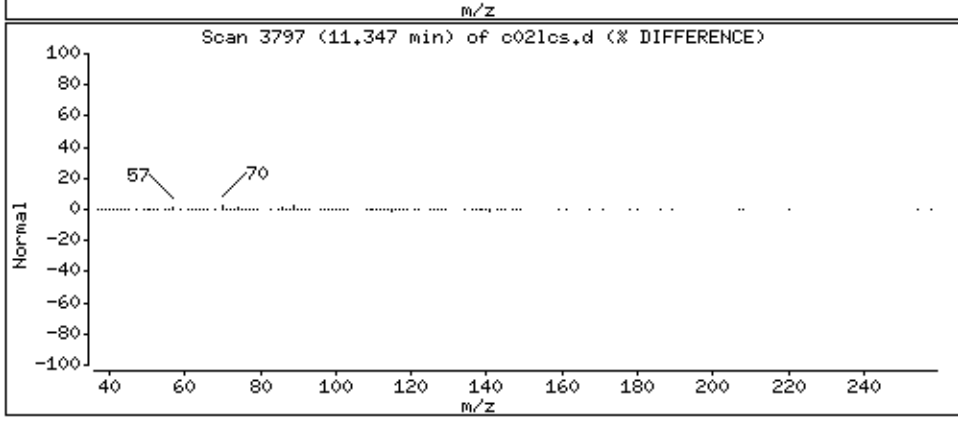
101 1-Methylnaphthalene

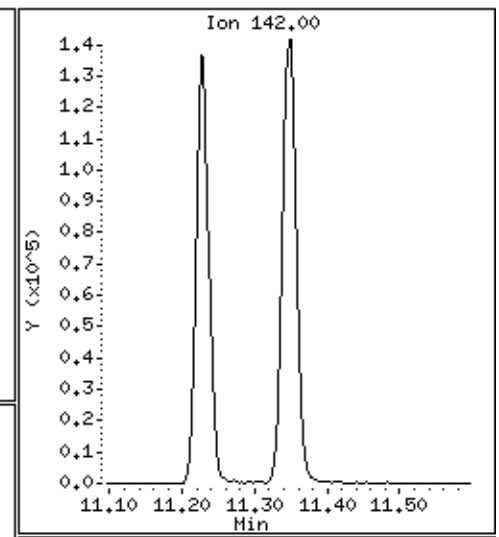
Concentration: 50.0 ppb

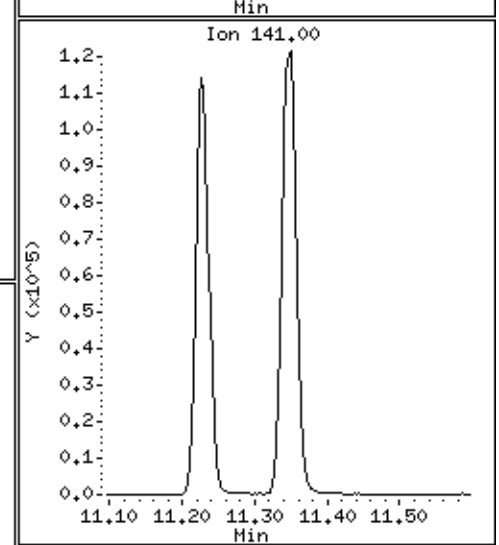


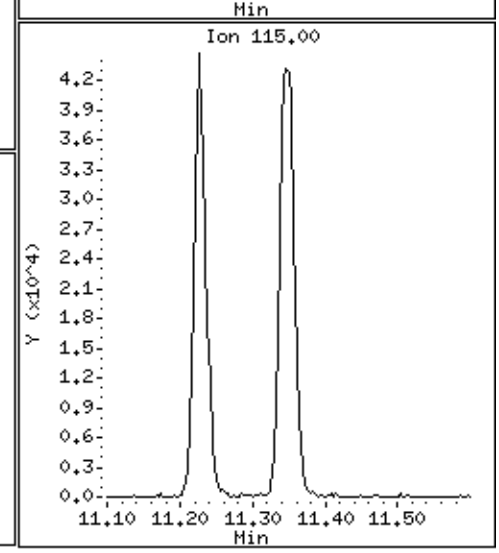












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Injection Date: 25-JAN-2017 11:50
Instrument: 50mv2a.i
Lab Sample ID: 1713802
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 17:01
Lab Sample ID: 1713803
Date Analyzed: 01/25/2017 17:01
Lab File ID: A012417.B\C08.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	216	
107-02-8	Acrolein	817	
107-13-1	Acrylonitrile	147	
71-43-2	Benzene	37.1	
108-86-1	Bromobenzene	36.5	
74-97-5	Bromochloromethane	36.6	
75-27-4	Bromodichloromethane	35.0	
75-25-2	Bromoform	29.1	
74-83-9	Bromomethane	33.6	
78-93-3	2-Butanone (MEK)	167	
104-51-8	n-Butylbenzene	36.3	
135-98-8	sec-Butylbenzene	38.1	
98-06-6	tert-Butylbenzene	32.1	
75-15-0	Carbon disulfide	35.2	
56-23-5	Carbon tetrachloride	36.0	
108-90-7	Chlorobenzene	36.5	
75-00-3	Chloroethane	40.3	
67-66-3	Chloroform	37.2	
74-87-3	Chloromethane	30.4	
95-49-8	2-Chlorotoluene	38.3	
106-43-4	4-Chlorotoluene	38.0	
124-48-1	Dibromochloromethane	33.1	
106-93-4	1,2-Dibromoethane (EDB)	37.5	
74-95-3	Dibromomethane	36.4	
95-50-1	1,2-Dichlorobenzene	36.7	
541-73-1	1,3-Dichlorobenzene	35.9	
106-46-7	1,4-Dichlorobenzene	34.5	
110-57-6	trans-1,4-Dichloro-2-butene	116	
75-71-8	Dichlorodifluoromethane	47.4	
75-34-3	1,1-Dichloroethane	35.7	
107-06-2	1,2-Dichloroethane	36.9	
75-35-4	1,1-Dichloroethene	36.8	
156-59-2	cis-1,2-Dichloroethene	37.1	
156-60-5	trans-1,2-Dichloroethene	36.8	
78-87-5	1,2-Dichloropropane	36.3	
142-28-9	1,3-Dichloropropane	39.0	
594-20-7	2,2-Dichloropropane	26.1	

SAMPLE NO.

MS

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 17:01
Lab Sample ID: 1713803
Date Analyzed: 01/25/2017 17:01
Lab File ID: A012417.B\C08.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	39.2	
10061-01-5	cis-1,3-Dichloropropene	33.5	
10061-02-6	trans-1,3-Dichloropropene	33.5	
100-41-4	Ethylbenzene	40.1	
97-63-2	Ethyl methacrylate	143	
87-68-3	Hexachloro-1,3-butadiene	32.2	
110-54-3	n-Hexane	33.3	
591-78-6	2-Hexanone	185	
74-88-4	Iodomethane	50.7	
98-82-8	Isopropylbenzene (Cumene)	39.0	
99-87-6	p-Isopropyltoluene	38.5	
75-09-2	Methylene Chloride	38.1	
90-12-0	1-Methylnaphthalene	35.3	
91-57-6	2-Methylnaphthalene	28.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	171	
1634-04-4	Methyl-tert-butyl ether	32.6	
91-20-3	Naphthalene	34.1	
103-65-1	n-Propylbenzene	41.6	
100-42-5	Styrene	38.1	
630-20-6	1,1,1,2-Tetrachloroethane	34.7	
79-34-5	1,1,2,2-Tetrachloroethane	39.4	
127-18-4	Tetrachloroethene	32.5	
108-88-3	Toluene	39.6	
87-61-6	1,2,3-Trichlorobenzene	34.7	
120-82-1	1,2,4-Trichlorobenzene	33.3	
71-55-6	1,1,1-Trichloroethane	34.7	
79-00-5	1,1,2-Trichloroethane	35.6	
79-01-6	Trichloroethene	38.1	
75-69-4	Trichlorofluoromethane	46.5	
96-18-4	1,2,3-Trichloropropane	39.6	
95-63-6	1,2,4-Trimethylbenzene	38.7	
108-67-8	1,3,5-Trimethylbenzene	37.7	
108-05-4	Vinyl acetate	83.5	
75-01-4	Vinyl chloride	42.7	
1330-20-7	Xylene (Total)	125	
179601-23-1	m&p-Xylene	83.6	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d
Lab Smp Id: 1713803 Client Smp ID: MW-2MS
Inj Date : 25-JAN-2017 17:01
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713803,140393:5
Misc Info : 99150
Comment :
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Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 31 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.871	(0.215)	91564	47.4313	47.4	
2 Chloromethane	50	0.951	0.952	(0.234)	66481	30.4064	30.4	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	113029	42.7321	42.7	
4 Bromomethane	94	1.141	1.138	(0.281)	41855	33.6082	33.6	
5 Chloroethane	64	1.185	1.183	(0.292)	67843	40.3415	40.3	
6 Trichlorofluoromethane	101	1.296	1.294	(0.319)	152622	46.5230	46.5	
7 Diethyl ether	74	1.419	1.416	(0.349)	52981	33.7059	33.7(R)	
8 1,2-dichlorotrifluoroethane	67	1.436	1.433	(0.353)	107409	35.9379	35.9	
9 Acrolein	56	1.488	1.489	(0.366)	287517	816.766	817	
10 1,1,2trichlorotrifluoroethane	101	1.539	1.536	(0.379)	89165	36.1036	36.1(R)	
11 1,1-Dichloroethene	96	1.544	1.541	(0.380)	74333	36.7614	36.8	
12 Acetone	43	1.555	1.553	(0.383)	165171	215.906	216	
13 Iodomethane	142	1.628	1.625	(0.400)	143853	50.7330	50.7(R)	
14 Carbon Disulfide	76	1.675	1.672	(0.412)	220673	35.2366	35.2	
15 Methyl Acetate	43	1.719	1.717	(0.423)	107665	38.8951	38.9	
16 Acetonitrile	39	1.733	1.731	(0.426)	164533	30.6670	30.7	
17 allyl chloride	41	1.733	1.731	(0.426)	240983	63.9420	63.9(R)	
18 Methylene Chloride	84	1.808	1.806	(0.445)	76226	38.0956	38.1	
19 tert-Butyl Alcohol	59	1.850	1.853	(0.455)	19372	69.9730	70.0	
20 Acrylonitrile	53	1.942	1.939	(0.478)	142503	147.003	147	
21 Methyl-tert-butyl ether	73	1.961	1.964	(0.483)	237134	32.6024	32.6	
22 1,2-Dichloroethene (trans)	96	1.975	1.973	(0.486)	79350	36.8148	36.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.148	2.148	(0.528)	102775	33.3300	33.3	
24 Vinyl Acetate	43	2.265	2.262	(0.557)	402233	83.5119	83.5(R)	
25 1,1-Dichloroethane	63	2.270	2.268	(0.559)	140525	35.6698	35.7	
26 Chloroprene	53	2.323	2.323	(0.572)	131605	37.7302	37.7	
28 2-Butanone	72	2.724	2.724	(0.670)	55434	166.558	166(Q)	
29 1,2-Dichloroethene (cis)	96	2.732	2.730	(0.672)	88093	37.0733	37.1(Q)	
30 2,2-Dichloropropane	77	2.738	2.738	(0.674)	87732	26.0618	26.1	
31 Propionitrile	54	2.785	2.782	(0.685)	11271	28.4284	28.4(Q)	
32 Methacrylonitrile	41	2.924	2.924	(0.719)	226744	147.240	147	
33 Bromochloromethane	49	2.960	2.960	(0.728)	67045	36.5597	36.6(R)	
34 Tetrahydrofuran	42	2.980	2.977	(0.733)	27981	38.1449	38.1	
35 Chloroform	83	3.069	3.063	(0.755)	138669	37.2068	37.2	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.797)	82634	49.0365	49.0	
37 1,1,1-Trichloroethane	97	3.239	3.236	(0.797)	128125	34.6573	34.6(R)	
38 cyclohexane	56	3.311	3.311	(0.815)	142488	37.2461	37.2(R)	
150 n-butyl chloride	56	3.378	3.378	(0.831)	185111	38.9386	38.9	
39 Carbon Tetrachloride	117	3.414	3.408	(0.840)	116071	35.9741	36.0(R)	
40 1,1-Dichloropropene	75	3.417	3.417	(0.841)	123705	39.1776	39.2(R)	
41 Benzene	78	3.659	3.653	(0.900)	331649	37.0804	37.1(R)	
42 1,2-Dichloroethane	62	3.750	3.742	(0.923)	113221	36.8917	36.9	
43 2,2,4-Trimethylpentane	57	3.826	3.828	(0.941)	205873	35.7880	35.8	
44 Isobutyl alcohol	43	3.597	3.600	(0.885)	18038	0.87361	0.874	
* 45 Fluorobenzene	96	4.065	4.065	(1.000)	334111	50.0000		
47 Trichloroethene	95	4.529	4.527	(1.114)	84175	38.1427	38.1	
48 Methylcyclohexane	55	4.797	4.791	(1.180)	98328	37.9254	37.9(R)	
49 1,2-Dichloropropane	63	4.841	4.838	(1.191)	81637	36.3411	36.3(R)	
50 1,4-Dioxane	88	4.950	4.953	(1.218)	18929	713.592	714	
51 Dibromomethane	93	4.938	4.939	(1.215)	50975	36.4083	36.4(R)	
52 Methyl methacrylate	69	4.961	4.964	(1.220)	65585	34.6374	34.6(R)	
53 Bromodichloromethane	83	5.172	5.170	(1.272)	99932	35.0135	35.0(R)	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	119519	33.4724	33.5(R)	
56 4-Methyl-2-Pentanone	43	5.851	5.851	(0.794)	417223	171.413	171	
$ 57 Toluene-d8	98	5.951	5.946	(0.808)	324980	50.5821	50.6	
58 Toluene	91	6.024	6.021	(0.818)	358468	39.6061	39.6	
59 trans-1,3-Dichloropropene	75	6.318	6.316	(0.858)	108485	33.5361	33.5	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	466095	142.920	143(R)	
61 1,1,2-Trichloroethane	83	6.513	6.513	(0.884)	59085	35.5643	35.6(R)	
62 Tetrachloroethene	166	6.558	6.561	(0.890)	91445	32.5140	32.5(R)	
63 1,3-Dichloropropane	76	6.663	6.661	(0.904)	134139	38.9943	39.0	
64 2-Hexanone	43	6.741	6.739	(0.915)	292832	184.612	185	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	76961	33.1381	33.1(R)	
66 1,2-Dibromoethane	107	6.953	6.953	(0.944)	78069	37.5185	37.5(R)	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	247474	50.0000		
68 Chlorobenzene	112	7.392	7.390	(1.003)	210044	36.5427	36.5(R)	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	75992	34.7326	34.7(R)	
70 Ethylbenzene	106	7.484	7.484	(1.016)	125560	40.1399	40.1	
71 m&p-Xylene	106	7.598	7.596	(1.031)	315981	83.6171	83.6	
72 o-Xylene	106	7.899	7.896	(1.072)	142400	40.9303	40.9	
73 Styrene	104	7.918	7.916	(1.075)	228463	38.0780	38.1(R)	
74 Bromoform	173	8.055	8.052	(0.883)	53309	29.1001	29.1(R)	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	344226	39.0458	39.0(R)	
$ 76 4-Bromofluorobenzene	95	8.311	8.313	(1.128)	115936	52.6849	52.7	
77 n-amyl acetate	70	8.071	8.071	(1.096)	215219	128.557	128	
78 Bromobenzene	77	8.405	8.403	(1.141)	126005	36.5165	36.5(R)	

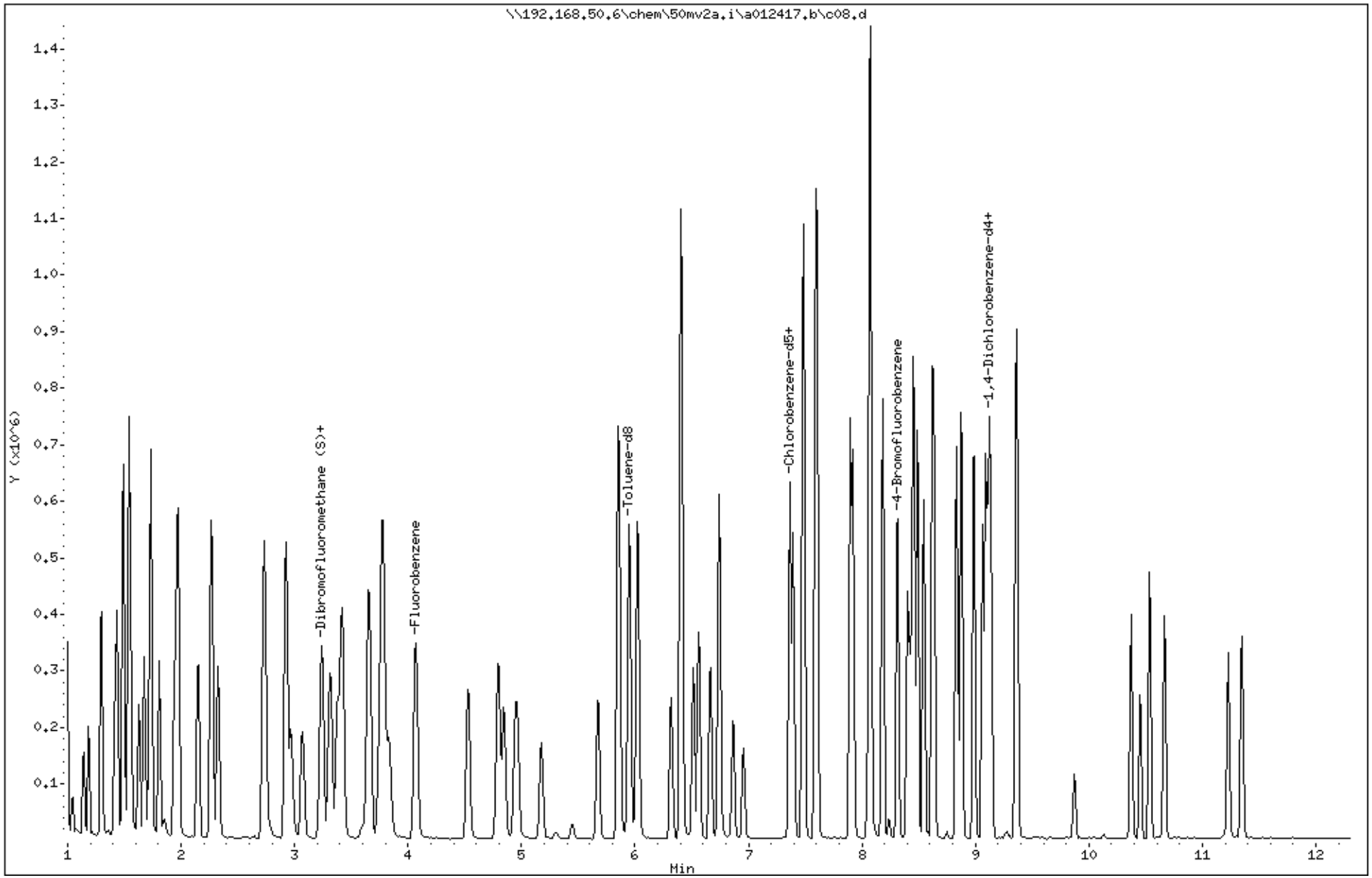
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
79	1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	99388	39.3829	39.4	
80	trans-1,4-Dichloro-2-butene	53	8.447	8.450	(1.147)	88096	116.066	116(Q)	
81	1,2,3-Trichloropropane	110	8.455	8.458	(0.927)	35206	39.6067	39.6(Q)	
82	n-Propylbenzene	91	8.489	8.486	(0.931)	377483	41.5586	41.6	
83	2-Chlorotoluene	91	8.544	8.544	(0.937)	217962	38.2821	38.3	
84	1,3,5-Trimethylbenzene	105	8.619	8.620	(0.945)	253266	37.6891	37.7	
85	4-Chlorotoluene	126	8.633	8.633	(0.947)	80724	37.9649	38.0	
86	tert-Butylbenzene	119	8.834	8.834	(0.969)	228488	32.1222	32.1	
87	1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	269253	38.7297	38.7	
88	sec-Butylbenzene	105	8.987	8.984	(0.986)	312560	38.1286	38.1(R)	
89	1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	153859	35.9055	35.9(R)	
90	p-Isopropyltoluene	119	9.092	9.090	(0.997)	261965	38.5270	38.5	
* 91	1,4-Dichlorobenzene-d4	152	9.117	9.118	(1.000)	125519	50.0000		
92	1,4-Dichlorobenzene	146	9.134	9.137	(1.002)	160078	34.4715	34.5(R)	
93	n-Butylbenzene	91	9.357	9.357	(1.026)	205827	36.3259	36.3	
94	1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	152728	36.7073	36.7(R)	
95	1,2-Dibromo-3-chloropropane	155	9.871	9.872	(1.083)	16717	31.3411	31.3(R)	
96	1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	87072	33.2870	33.3	
97	Hexachlorobutadiene	225	10.453	10.453	(1.146)	34911	32.2204	32.2(R)	
98	Naphthalene	128	10.534	10.534	(1.155)	262570	34.0745	34.1	
99	1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	86737	34.6598	34.6(R)	
100	2,methyl-naphthalene	142	11.229	11.226	(1.232)	123735	28.4535	28.4(R)	
101	1-Methylnaphthalene	142	11.349	11.346	(1.245)	136059	35.3016	35.3	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d
Date : 25-JAN-2017 17:01
Client ID: MW-2MS
Sample Info: 1713803,140393:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

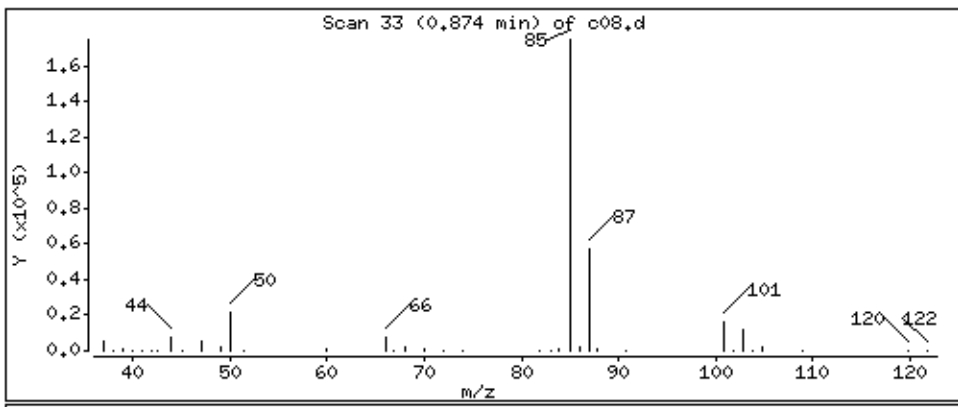
Operator: dae

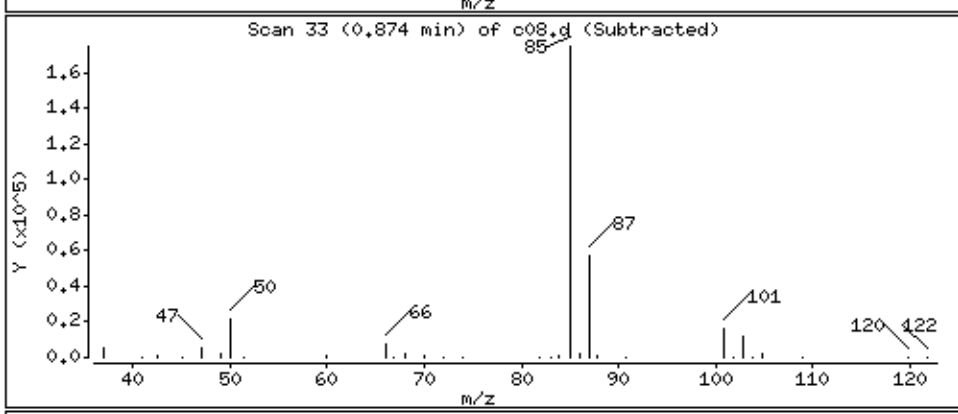
Column phase: DB-624

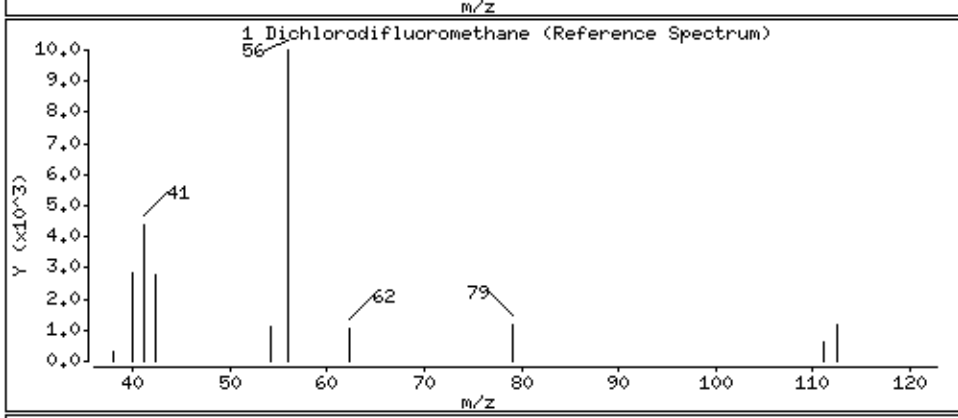
Column diameter: 0.18

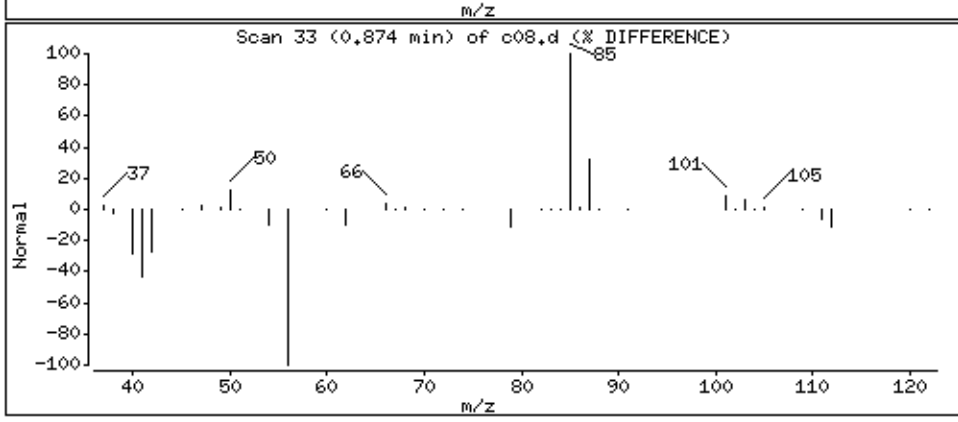
1 Dichlorodifluoromethane

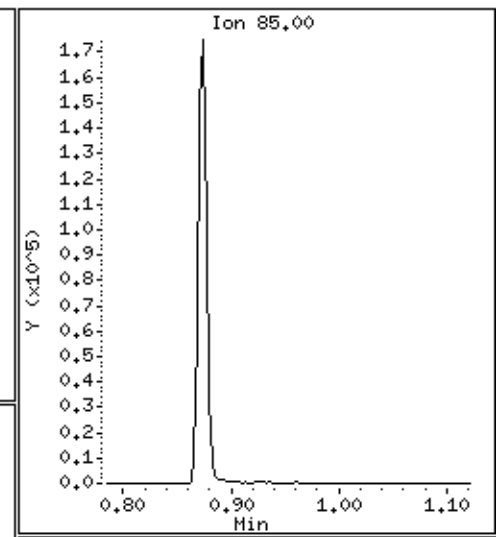
Concentration: 47.4 ppb

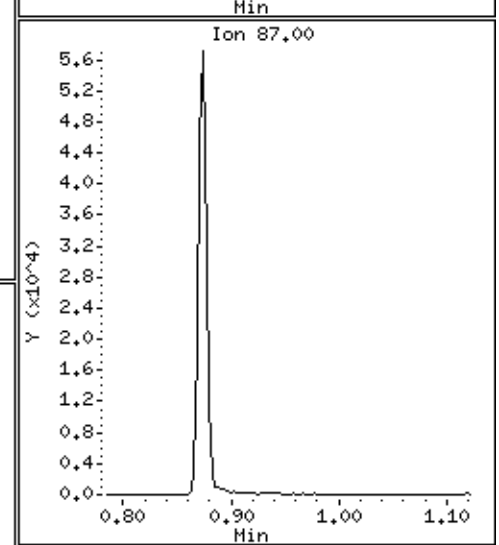


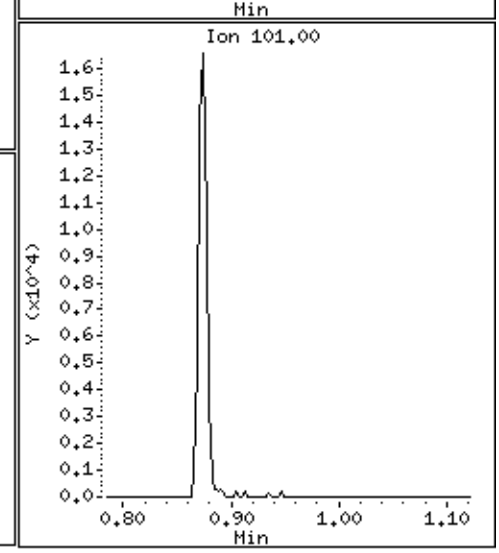












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

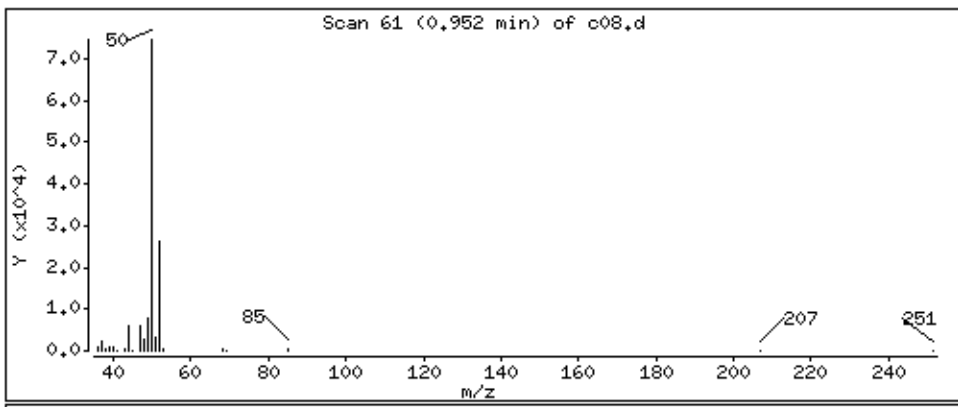
Operator: dae

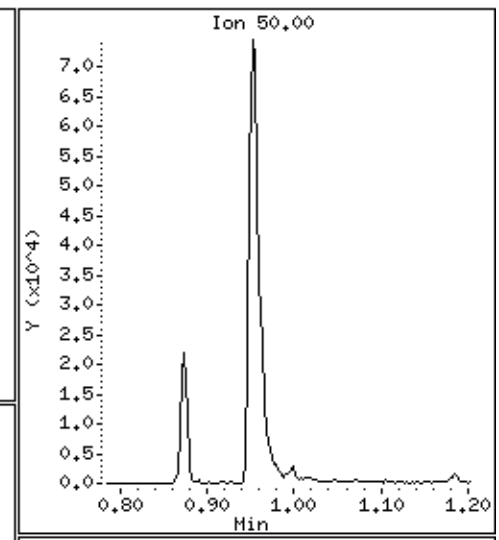
Column phase: DB-624

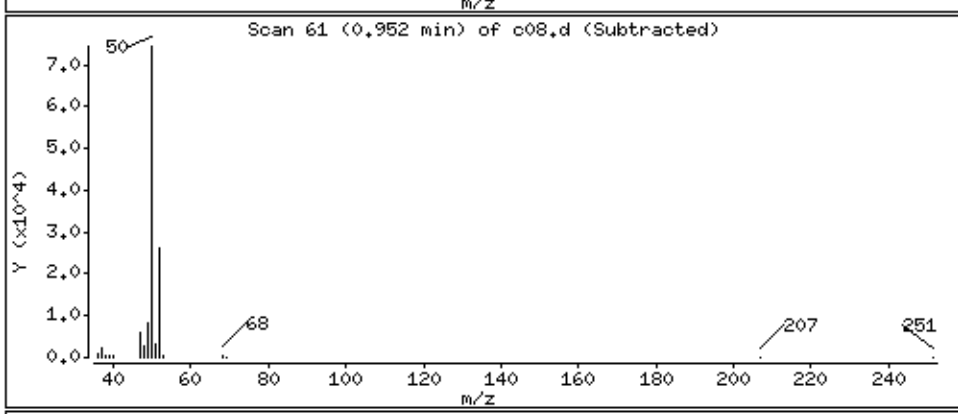
Column diameter: 0.18

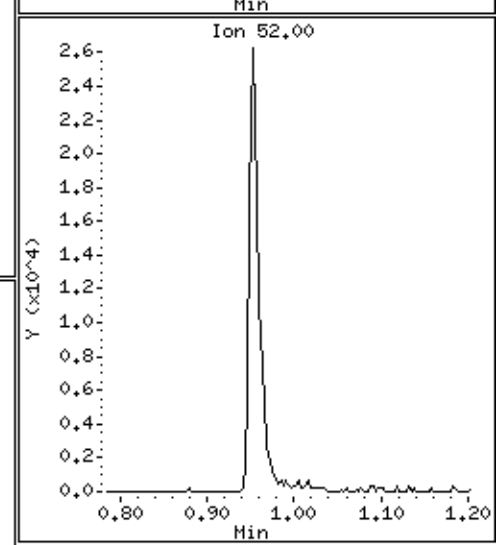
2 Chloromethane

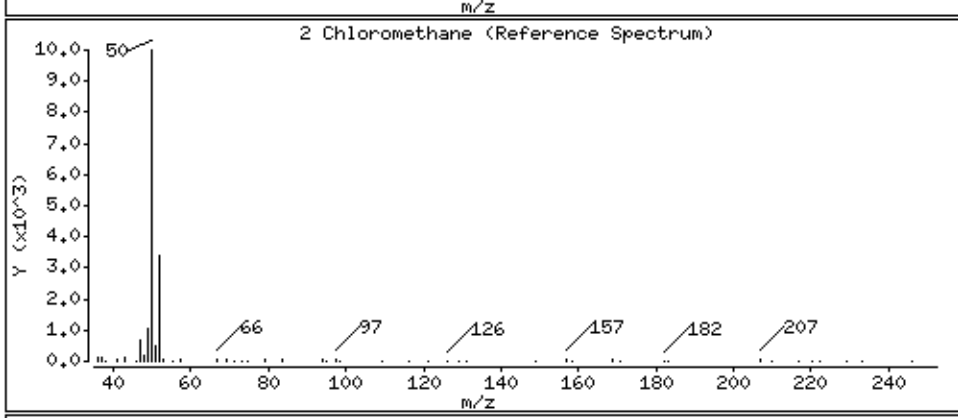
Concentration: 30.4 ppb

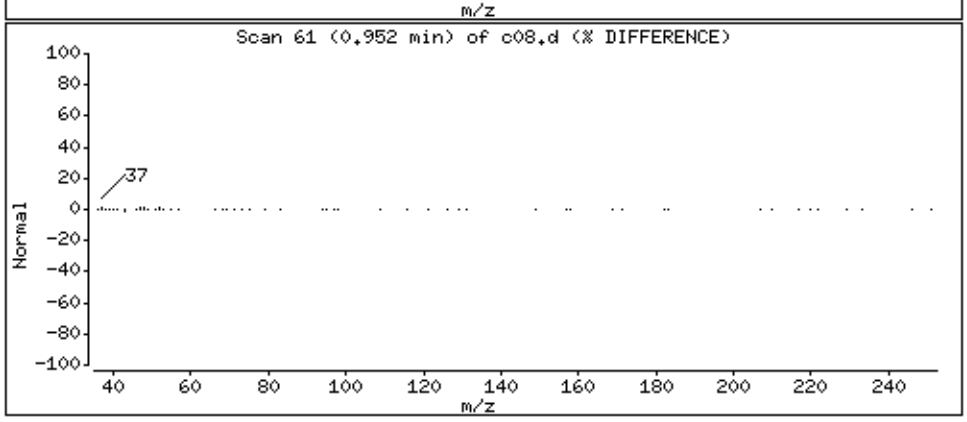












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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

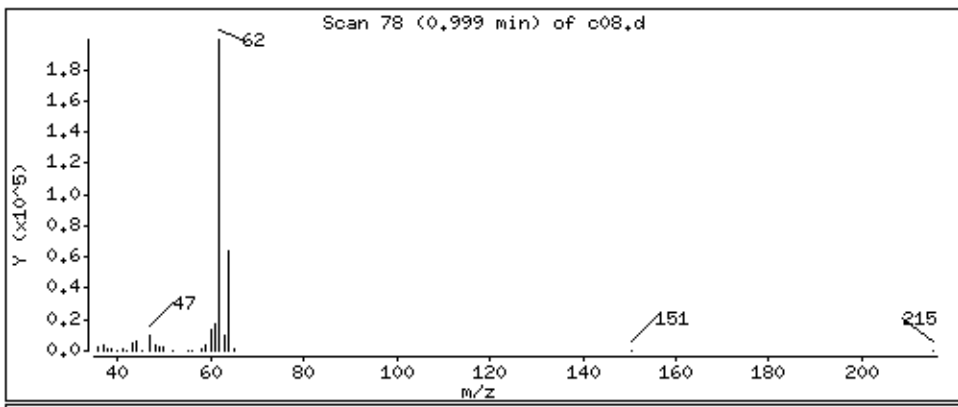
Operator: dae

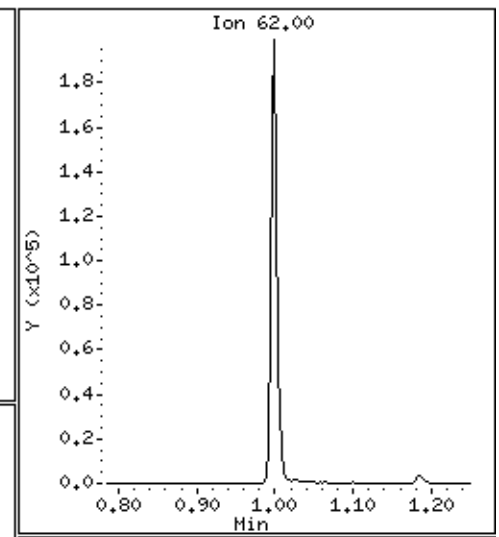
Column phase: DB-624

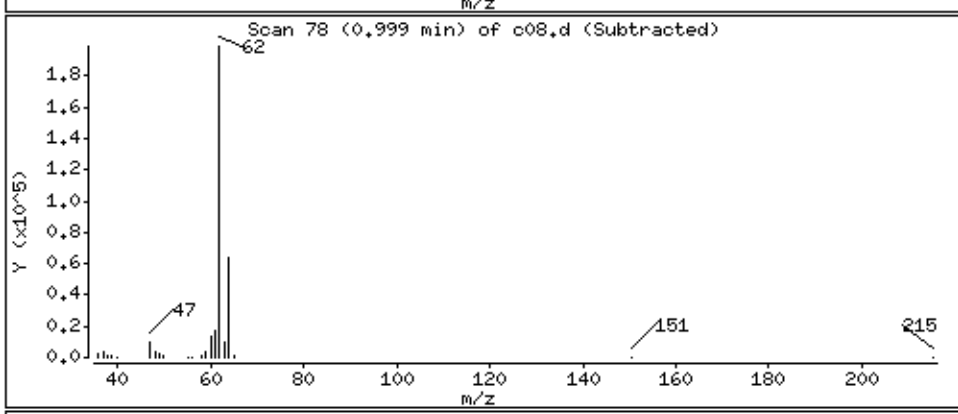
Column diameter: 0.18

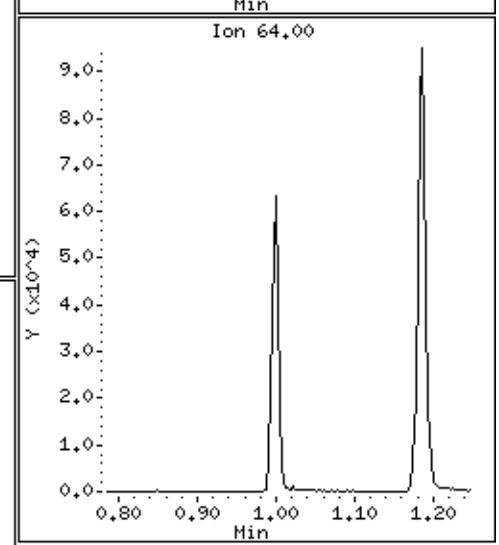
3 Vinyl Chloride

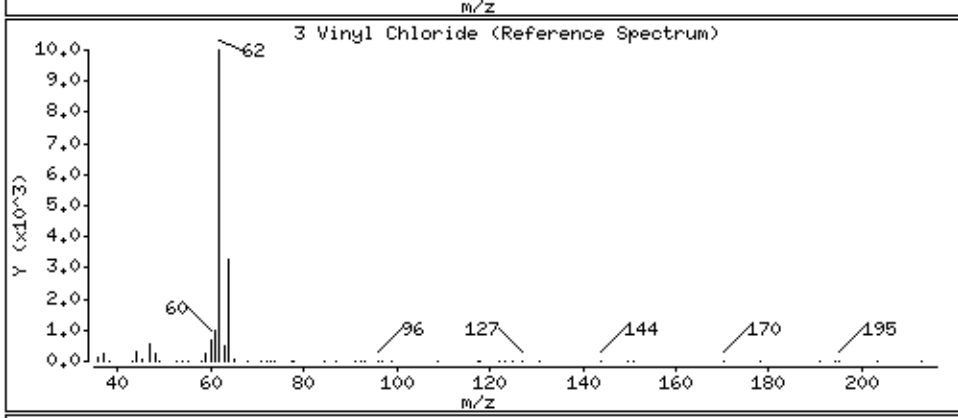
Concentration: 42.7 ppb

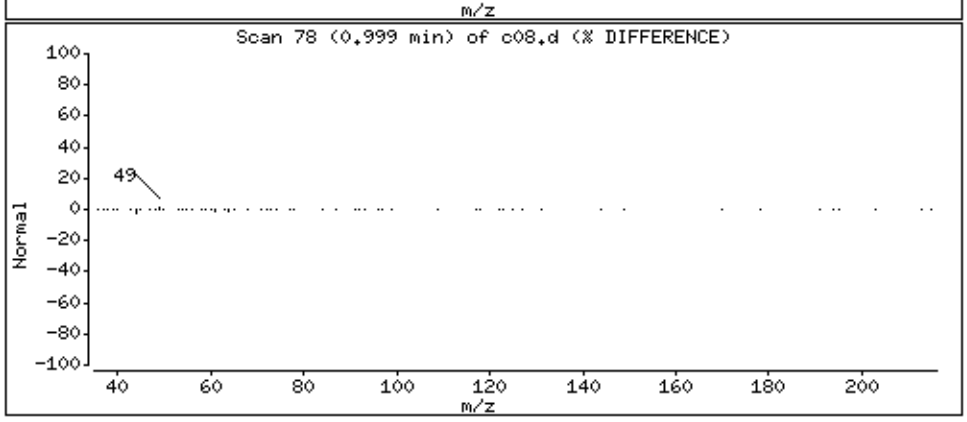












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

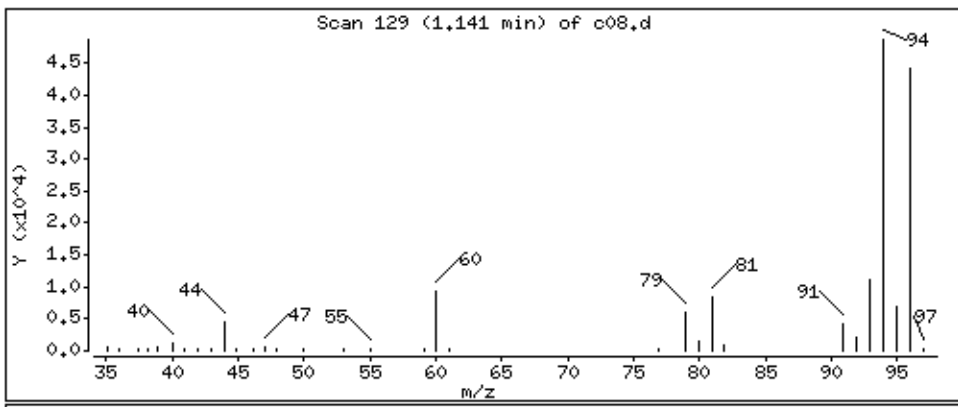
Operator: dae

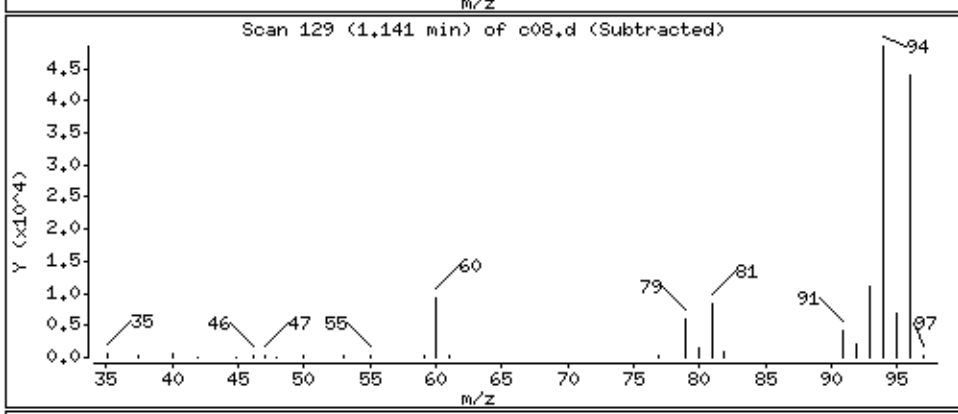
Column phase: DB-624

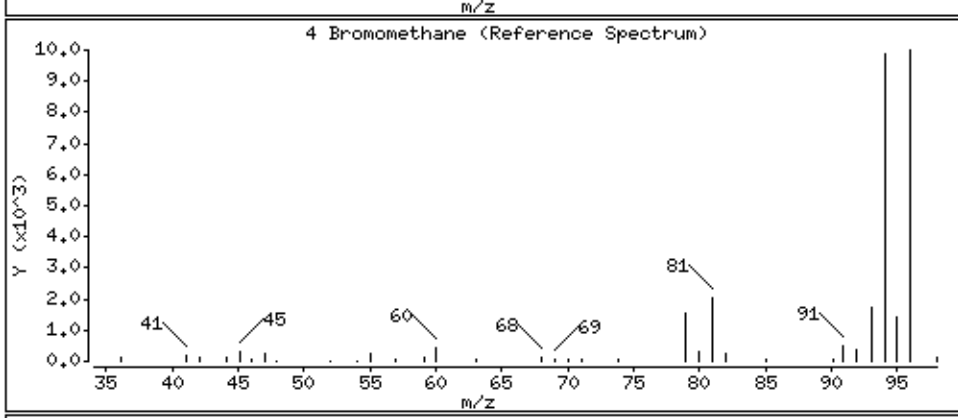
Column diameter: 0.18

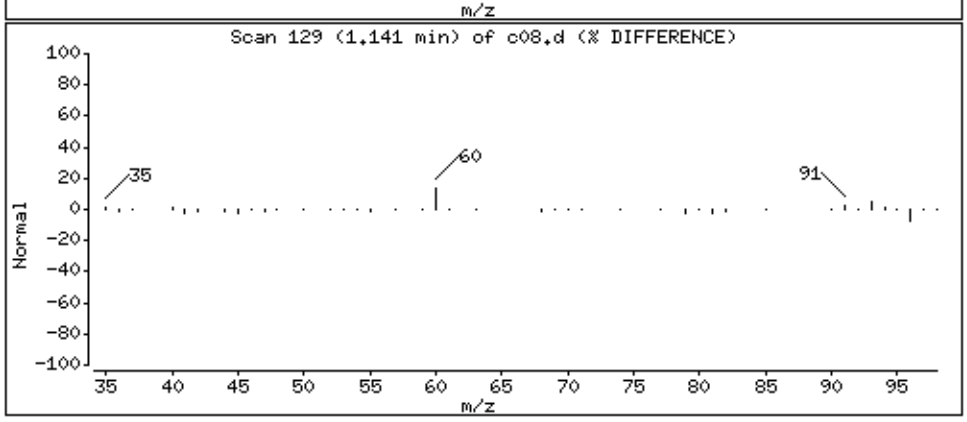
4 Bromomethane

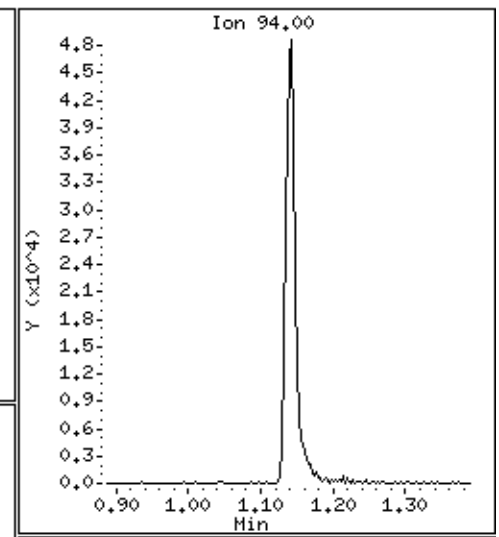
Concentration: 33.6 ppb

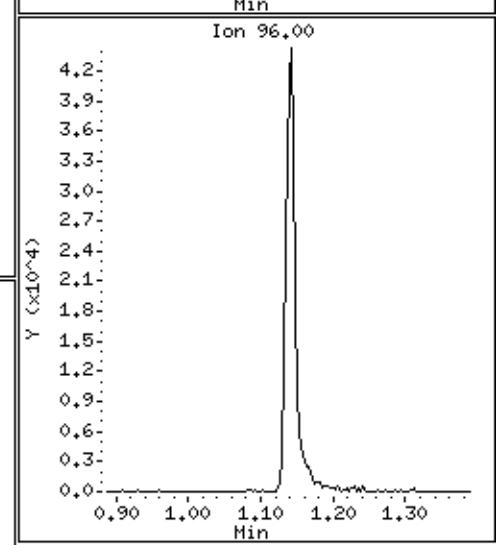












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

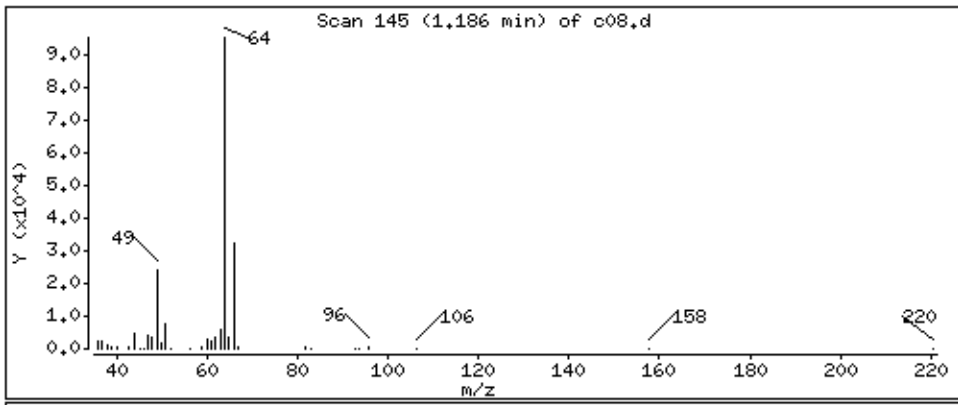
Operator: dae

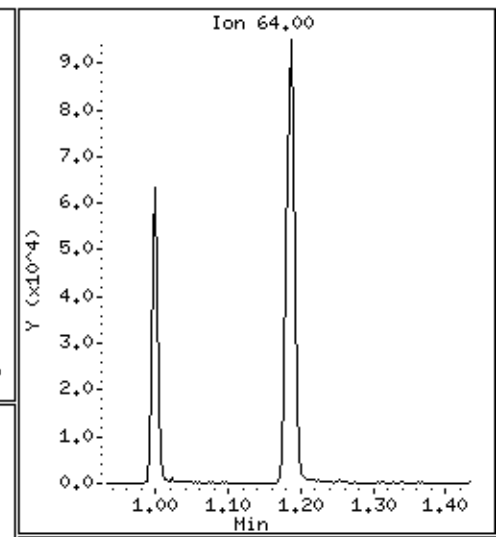
Column phase: DB-624

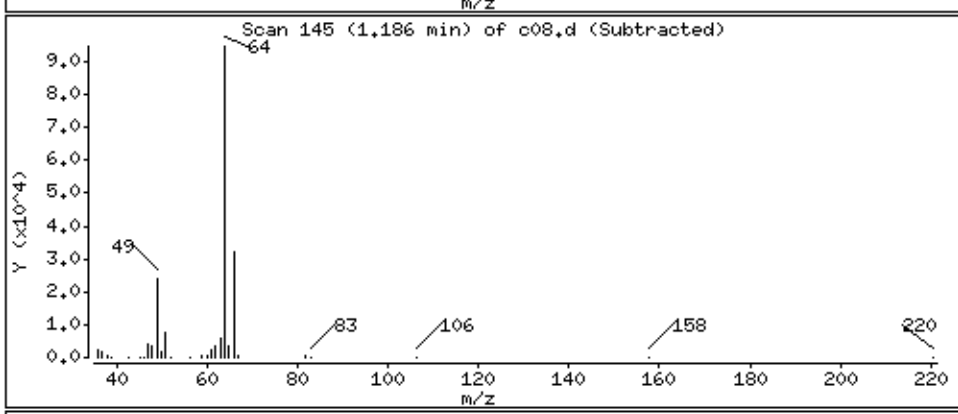
Column diameter: 0.18

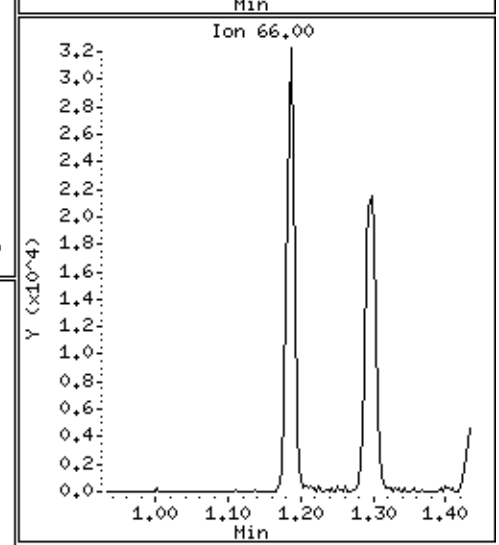
5 Chloroethane

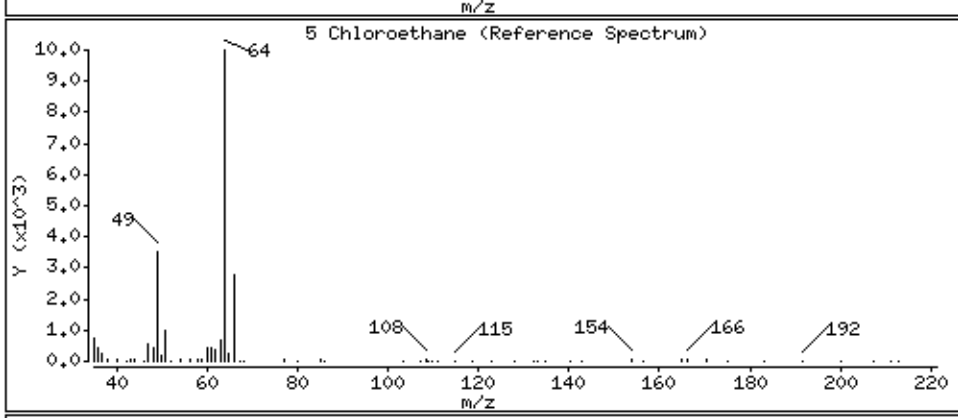
Concentration: 40.3 ppb

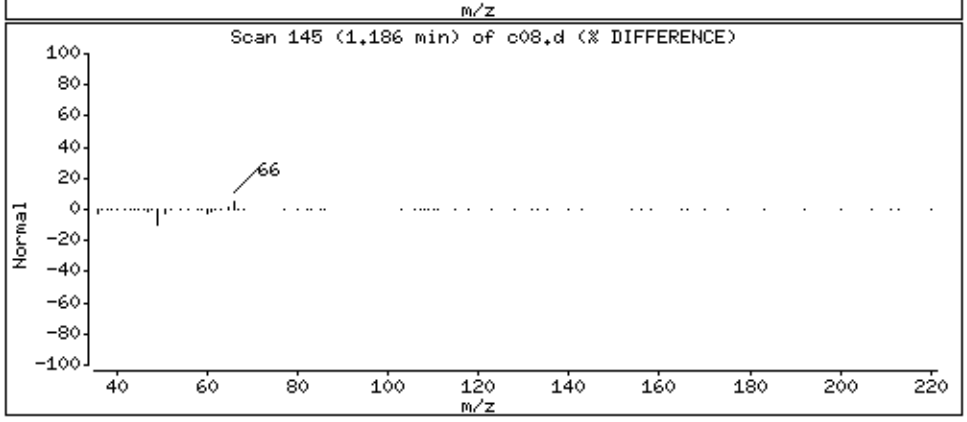












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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

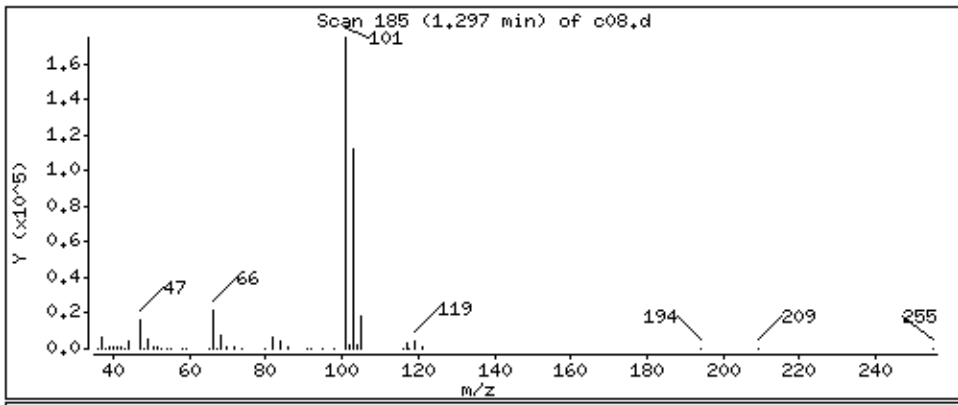
Operator: dae

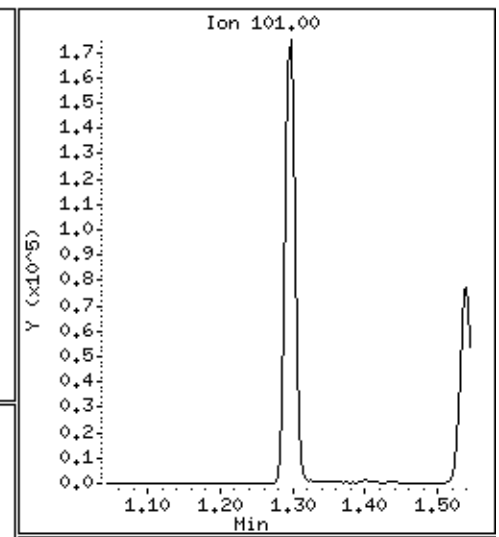
Column phase: DB-624

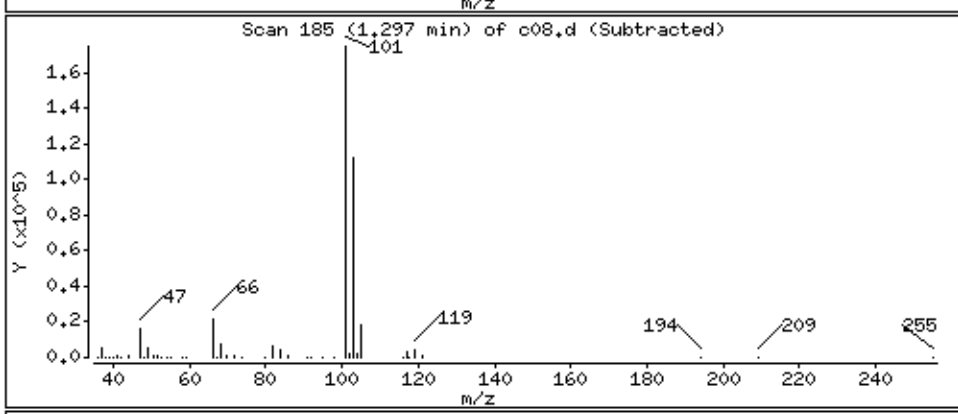
Column diameter: 0.18

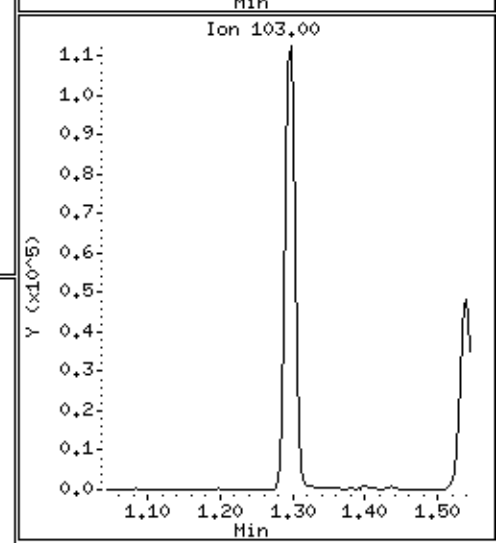
6 Trichlorofluoromethane

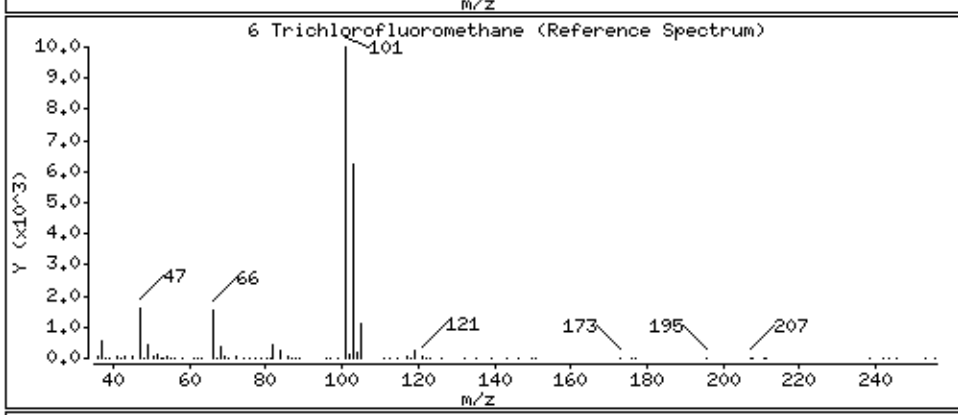
Concentration: 46.5 ppb

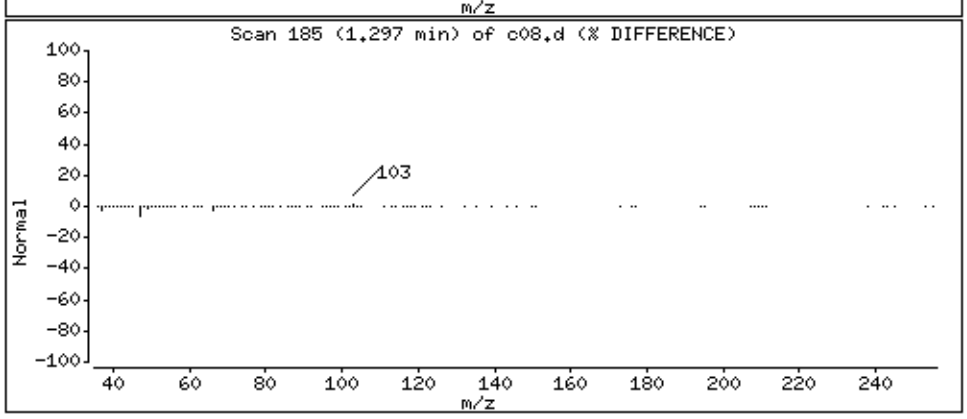












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

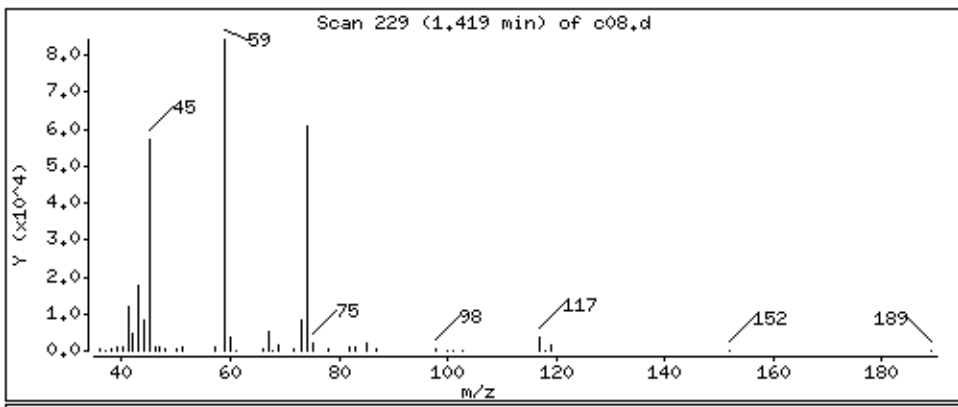
Operator: dae

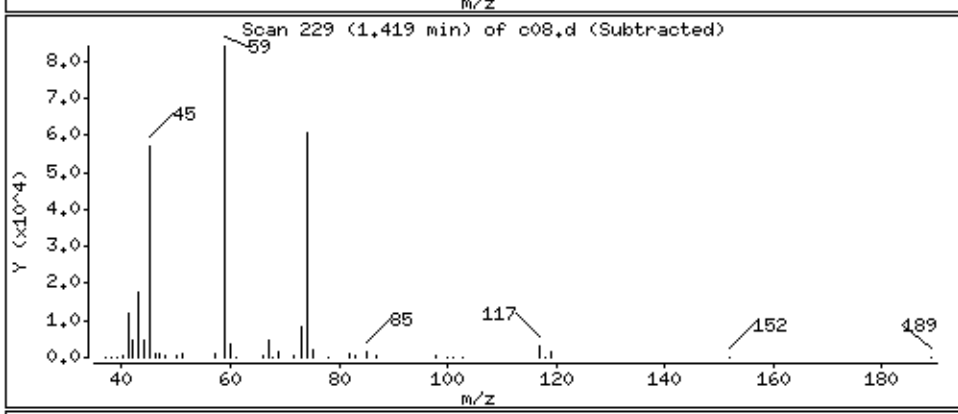
Column phase: DB-624

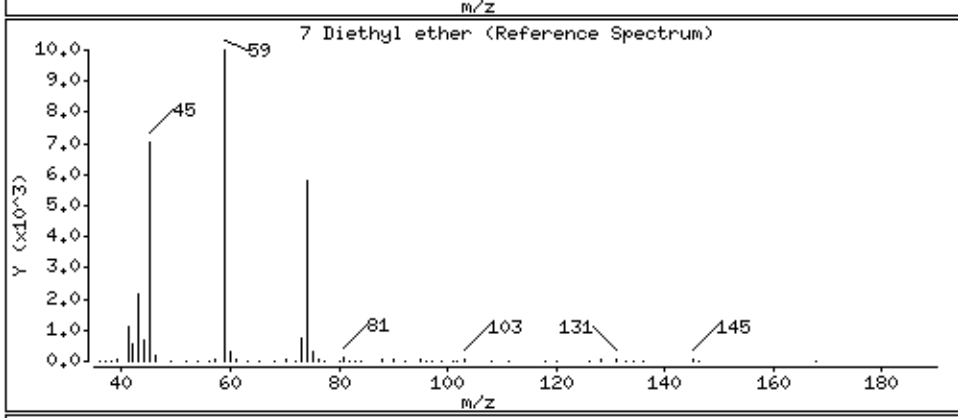
Column diameter: 0.18

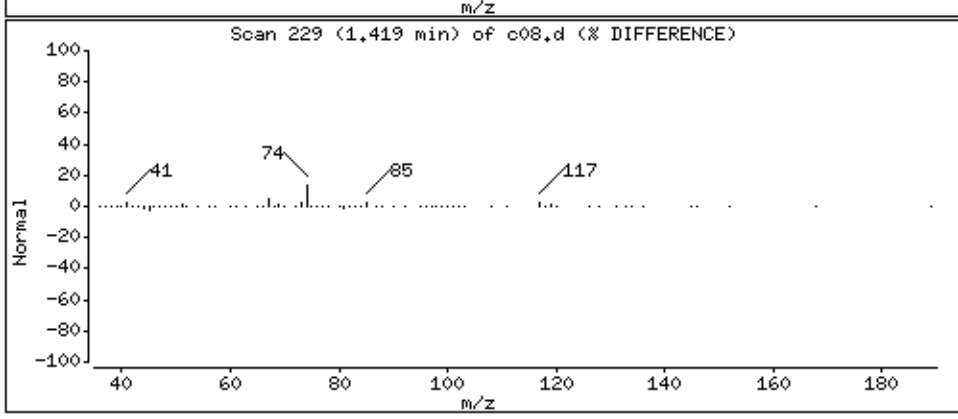
7 Diethyl ether

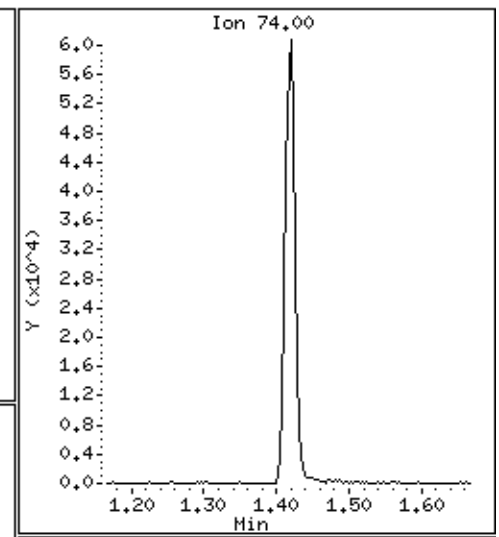
Concentration: 33.7 ppb

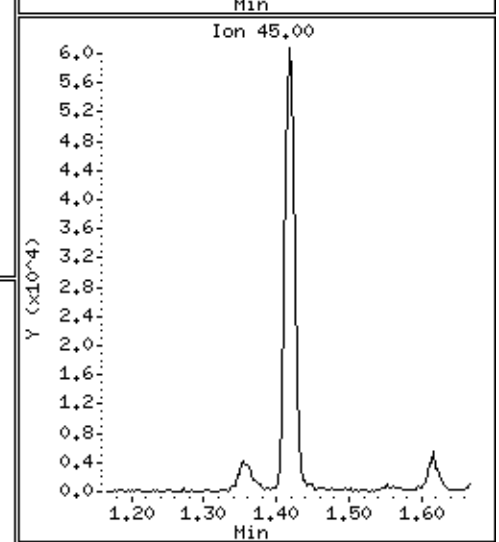


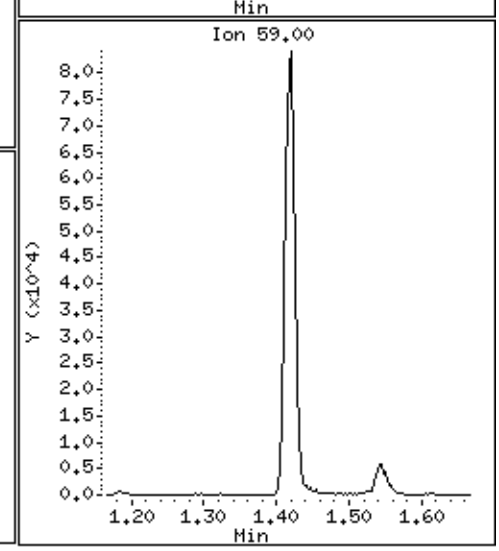












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

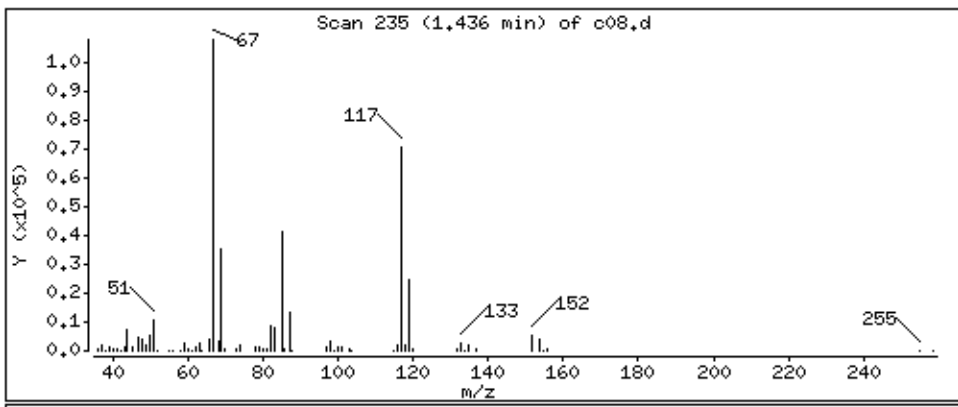
Operator: dae

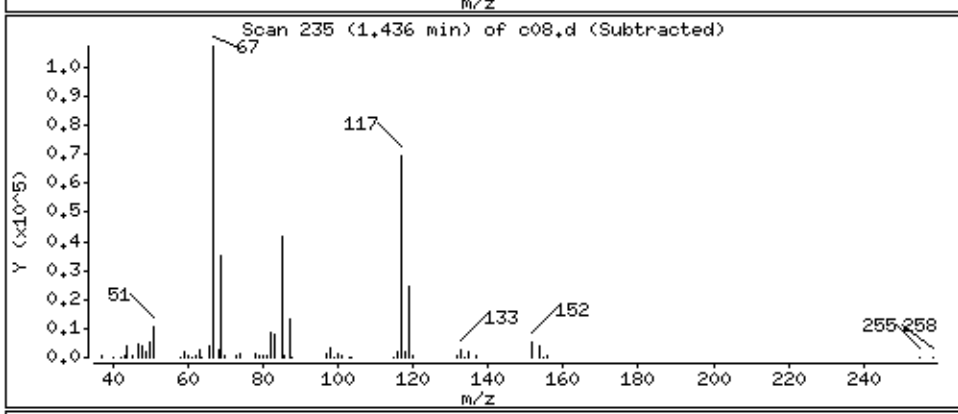
Column phase: DB-624

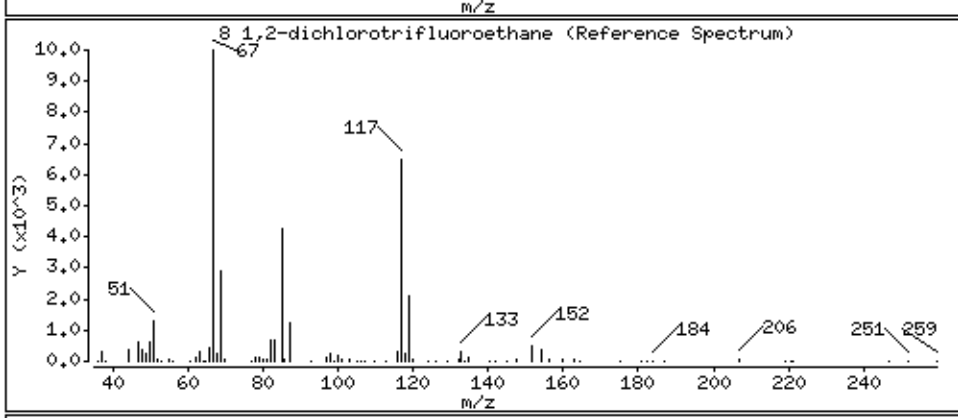
Column diameter: 0.18

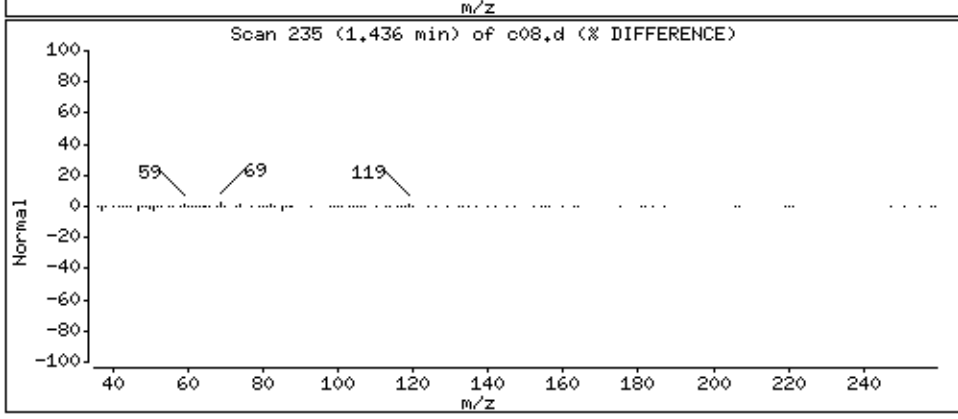
8 1,2-dichlorotrifluoroethane

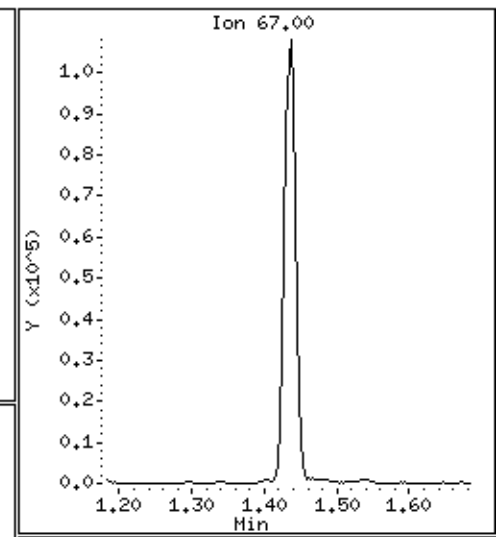
Concentration: 35.9 ppb

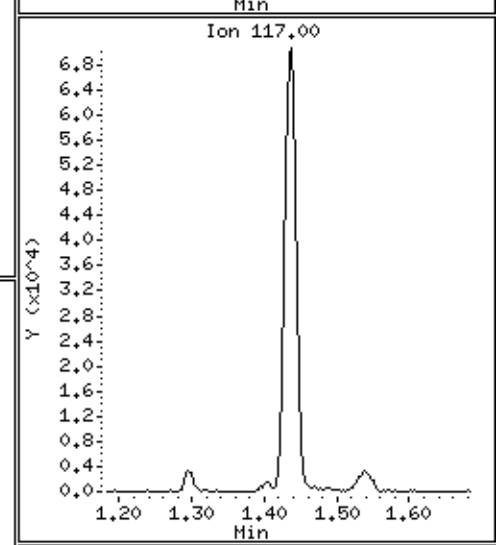


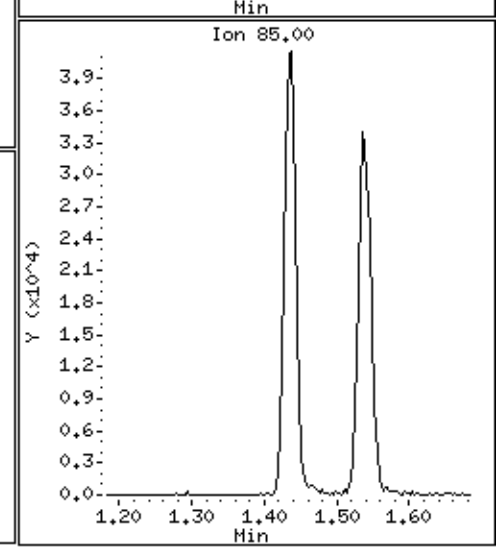












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

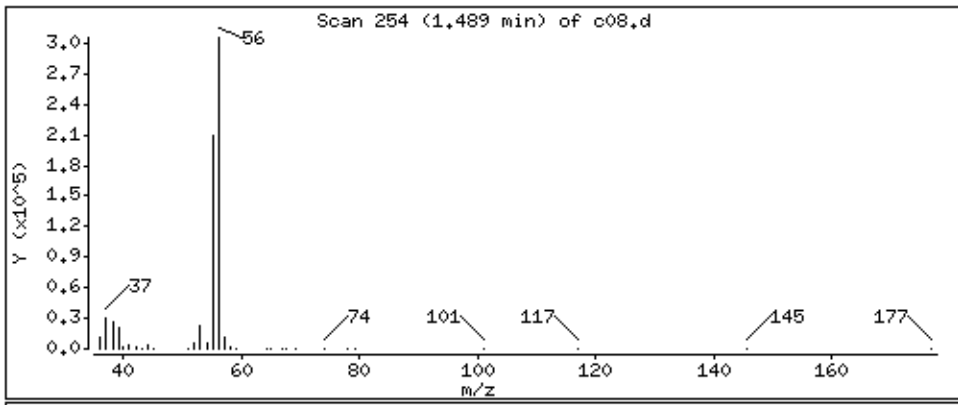
Operator: dae

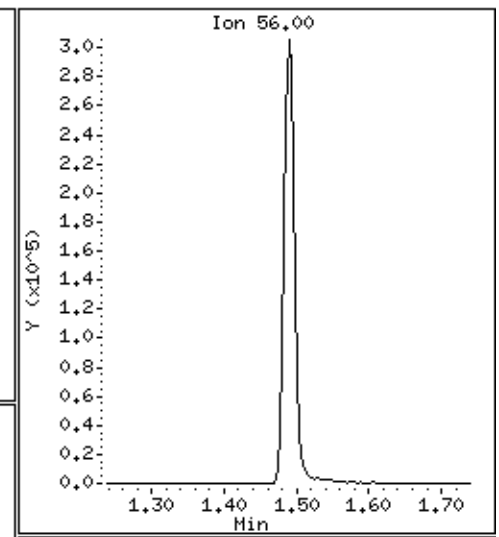
Column phase: DB-624

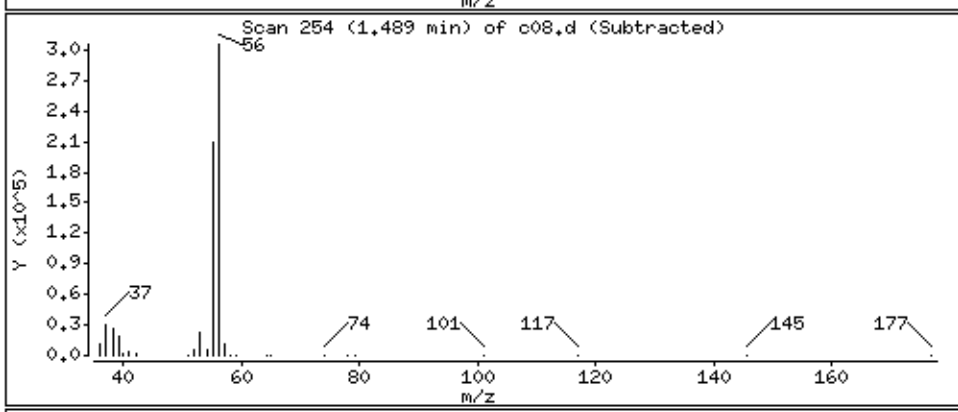
Column diameter: 0.18

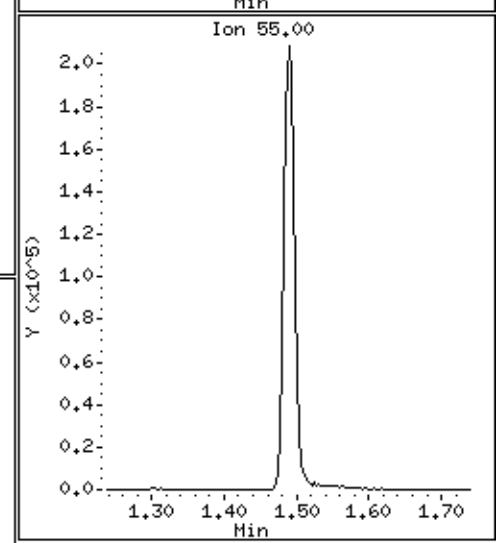
9 Acrolein

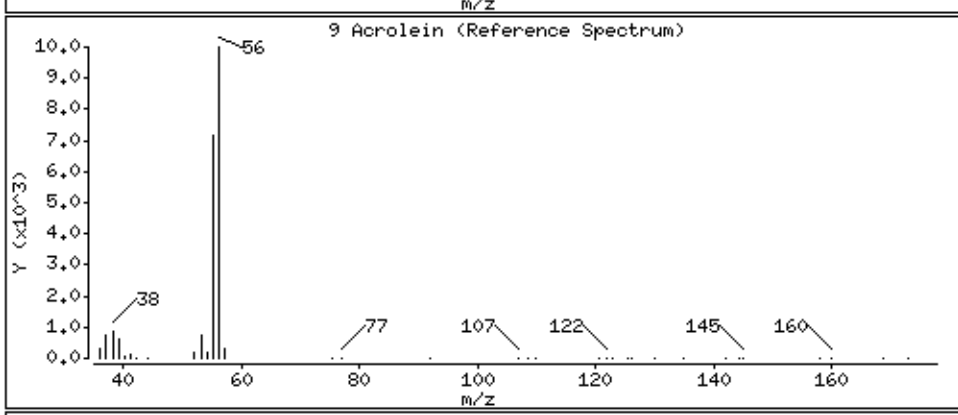
Concentration: 817 ppb

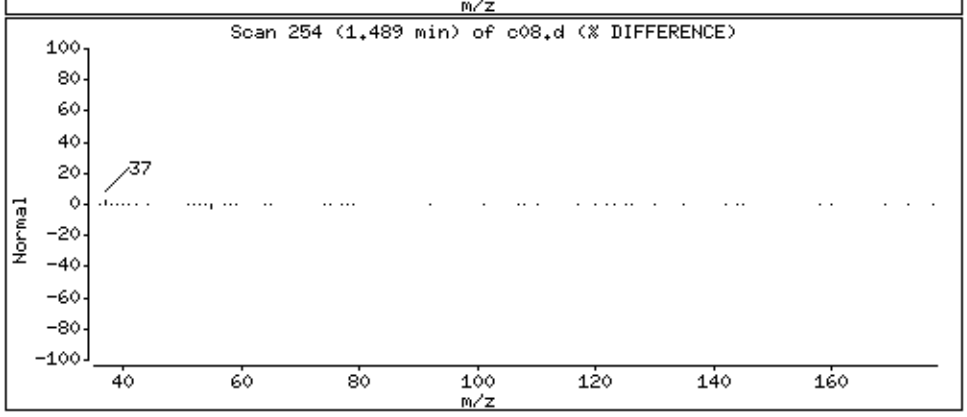












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

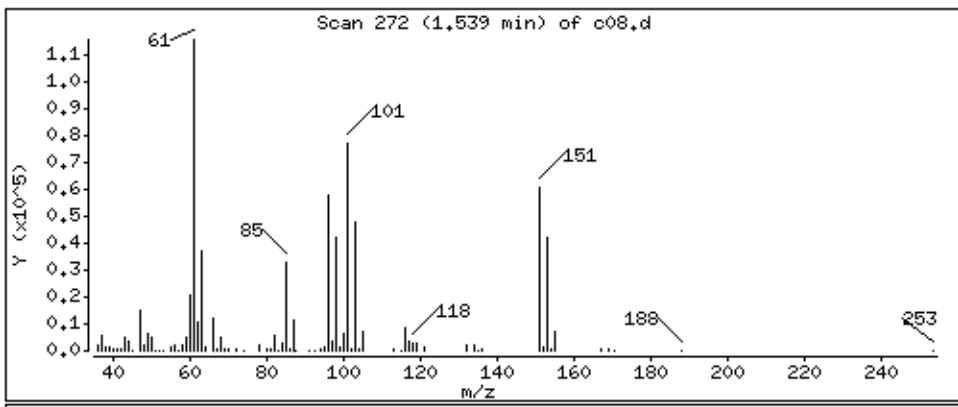
Operator: dae

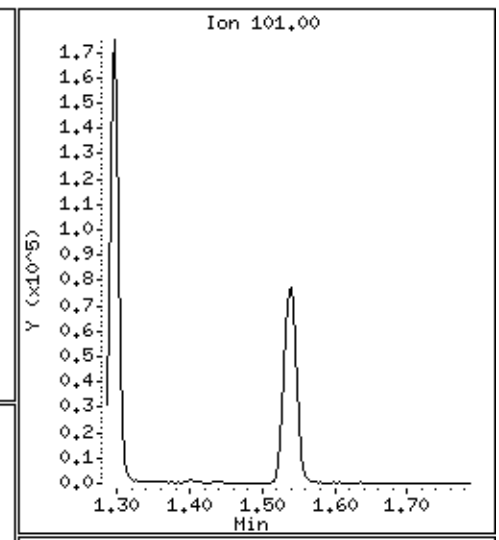
Column phase: DB-624

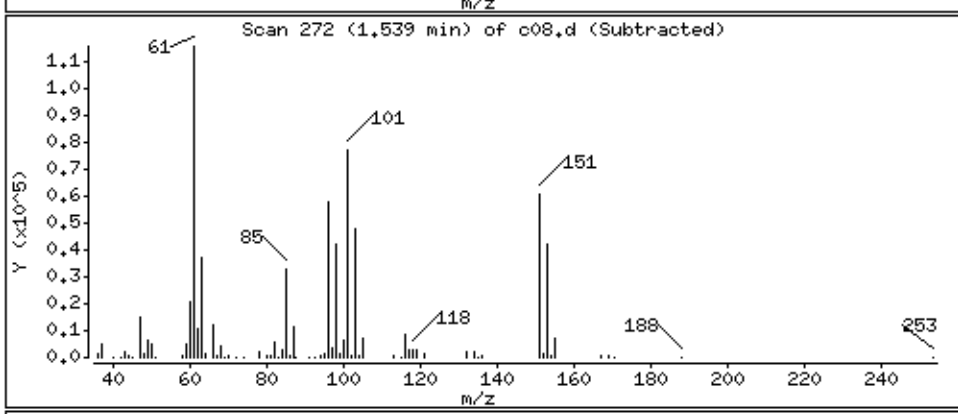
Column diameter: 0.18

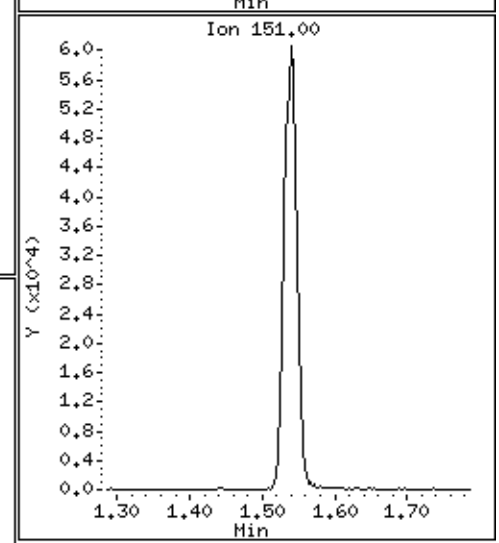
10 1,1,2trichlorotrifluoroethane

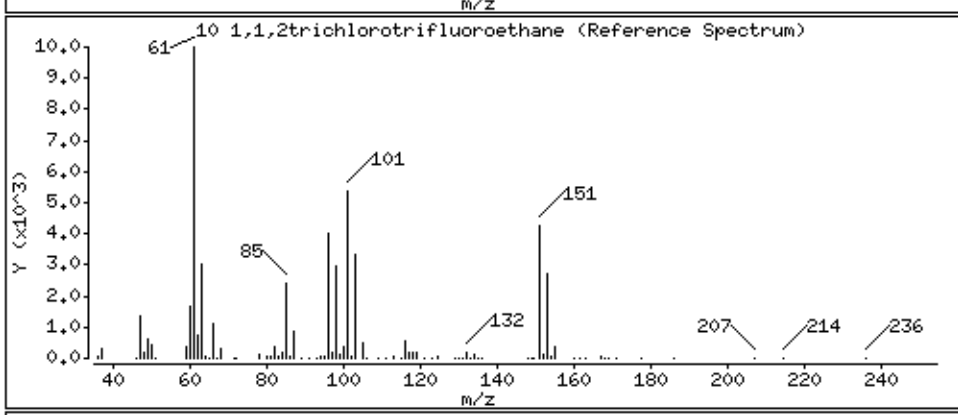
Concentration: 36.1 ppb

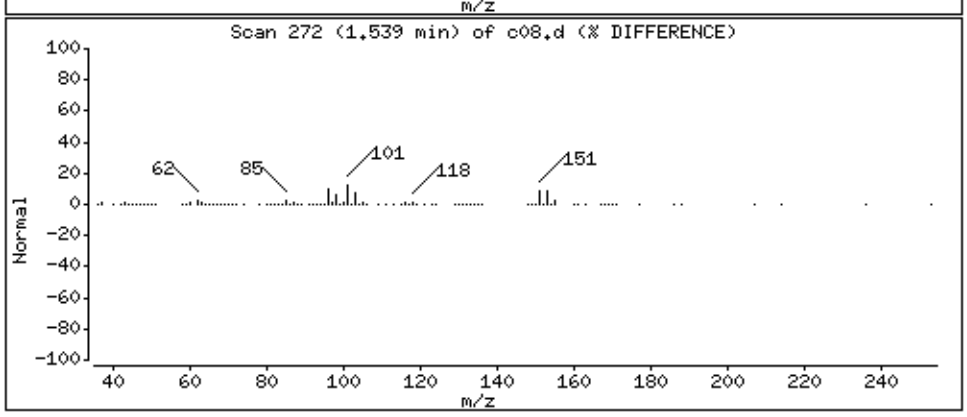












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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

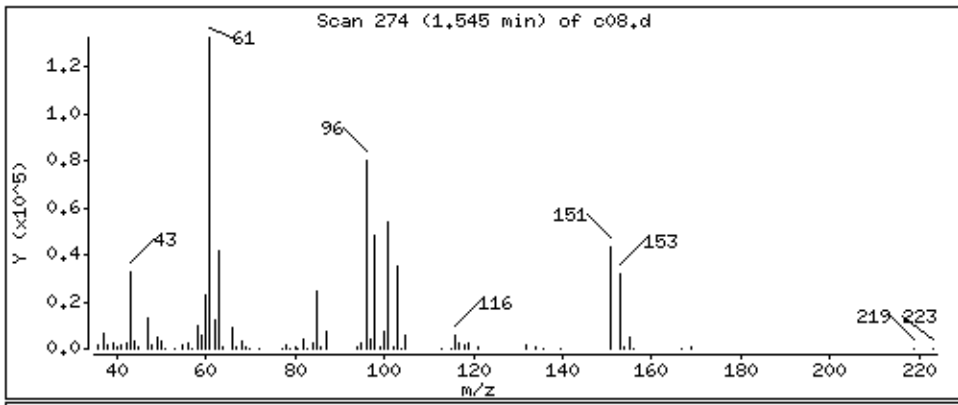
Operator: dae

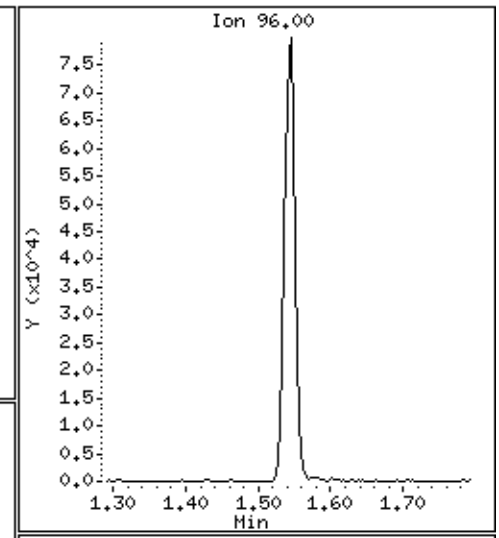
Column phase: DB-624

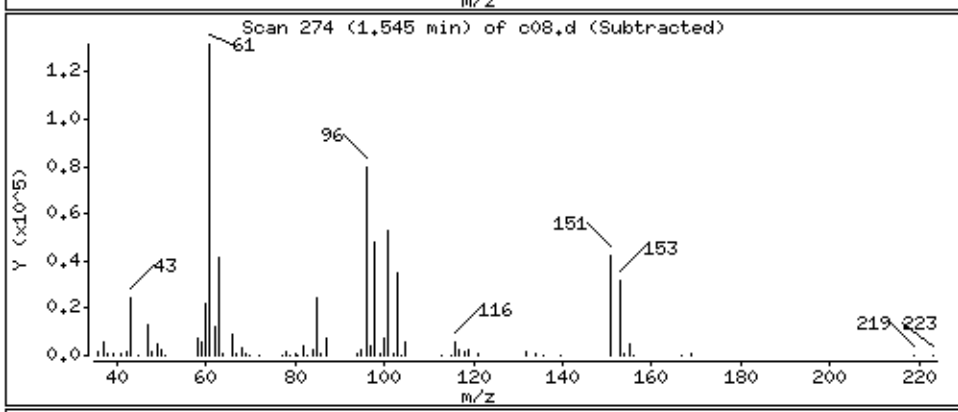
Column diameter: 0.18

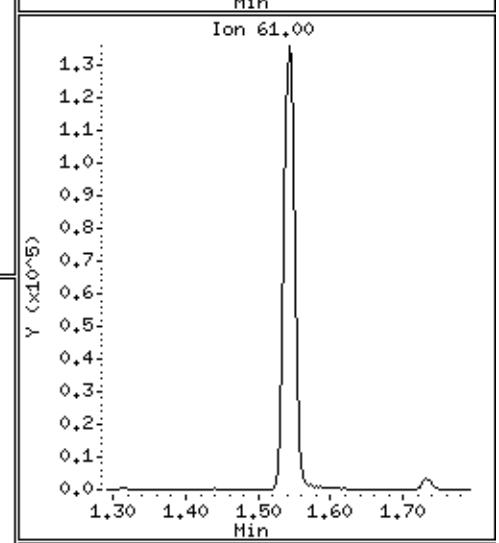
11 1,1-Dichloroethene

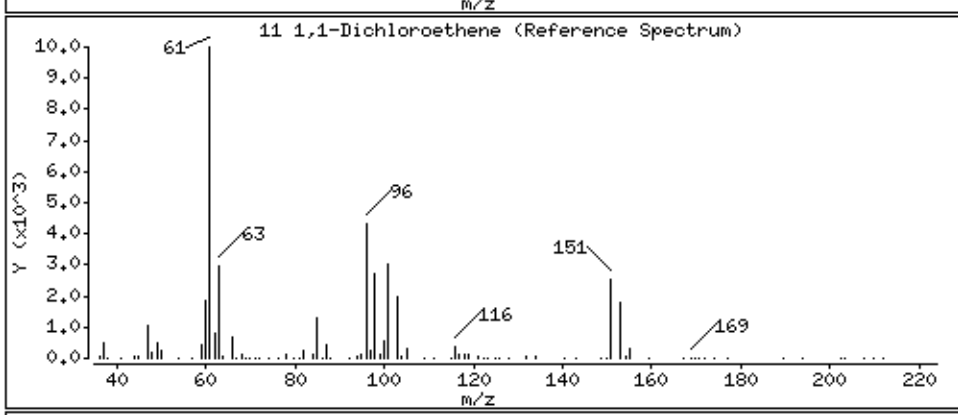
Concentration: 36.8 ppb

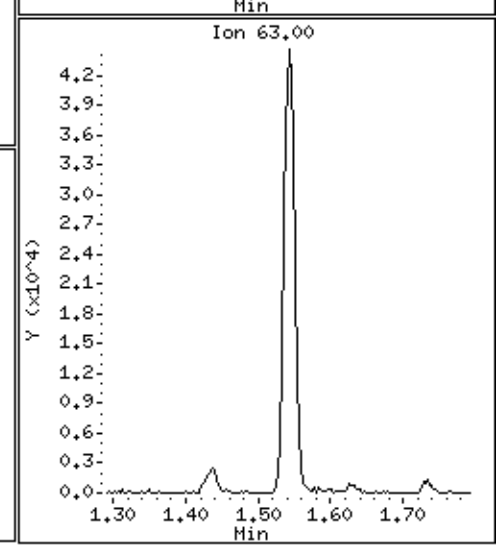


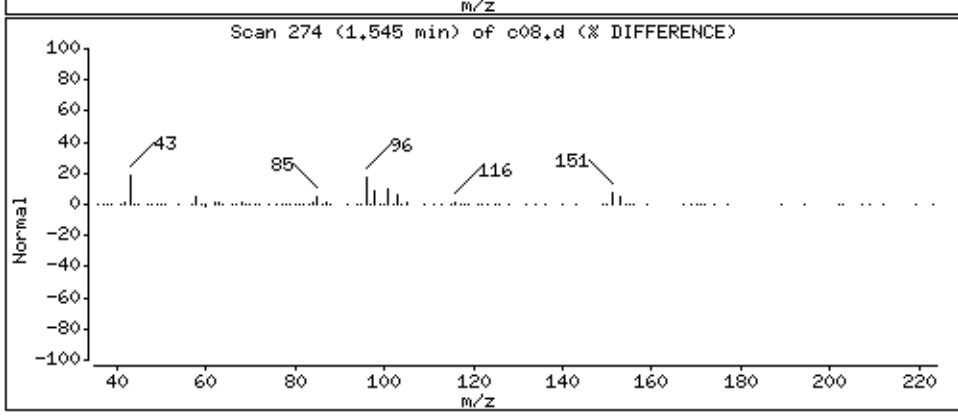












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

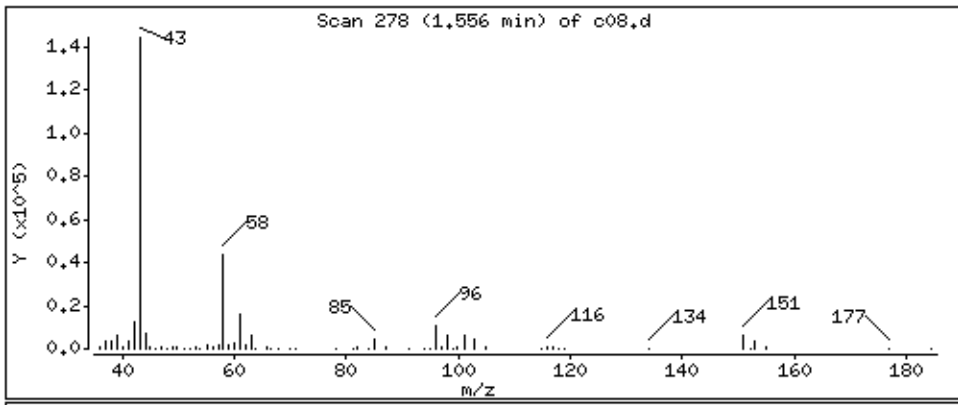
Operator: dae

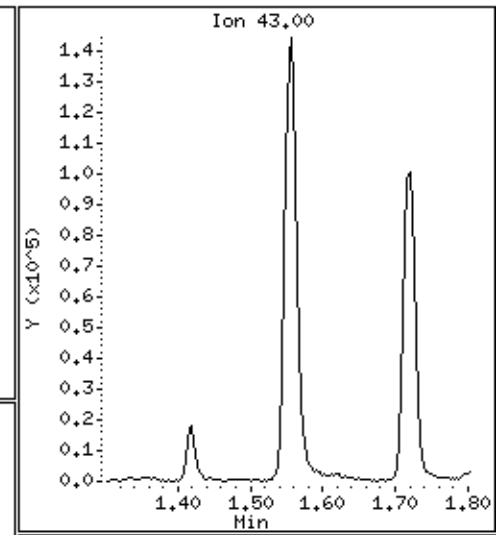
Column phase: DB-624

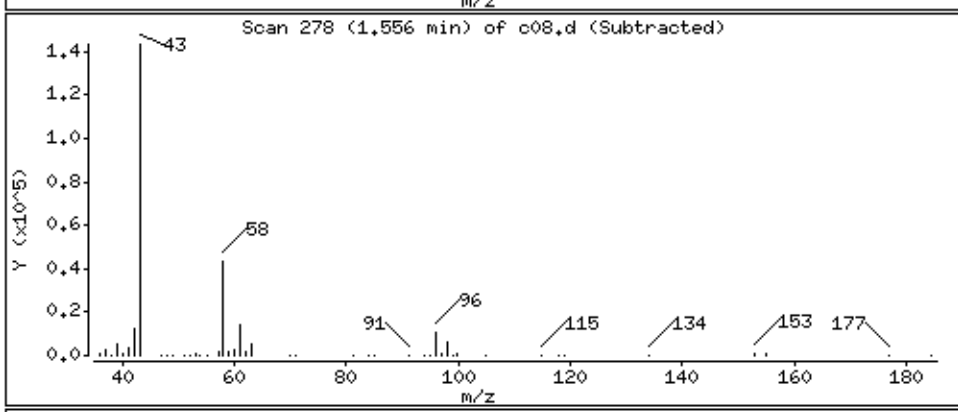
Column diameter: 0.18

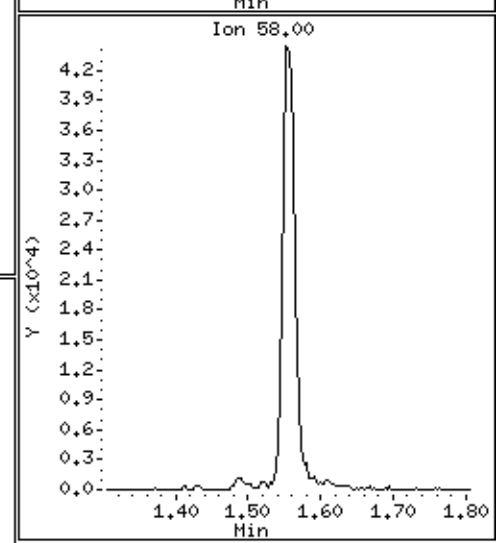
12 Acetone

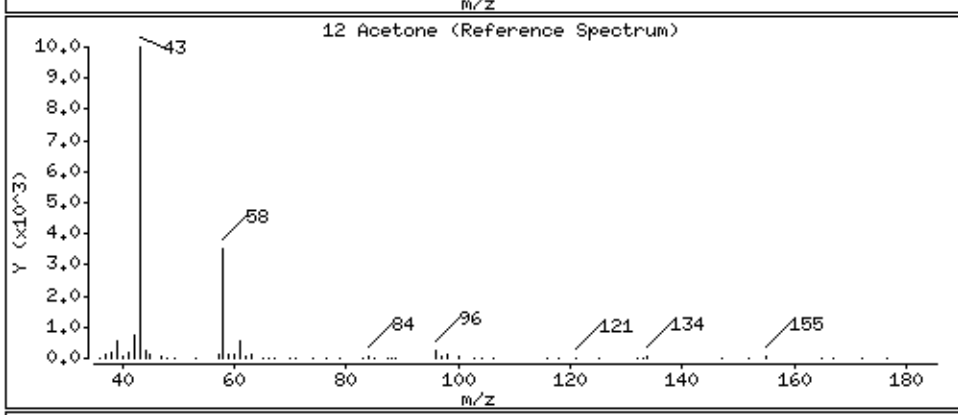
Concentration: 216 ppb

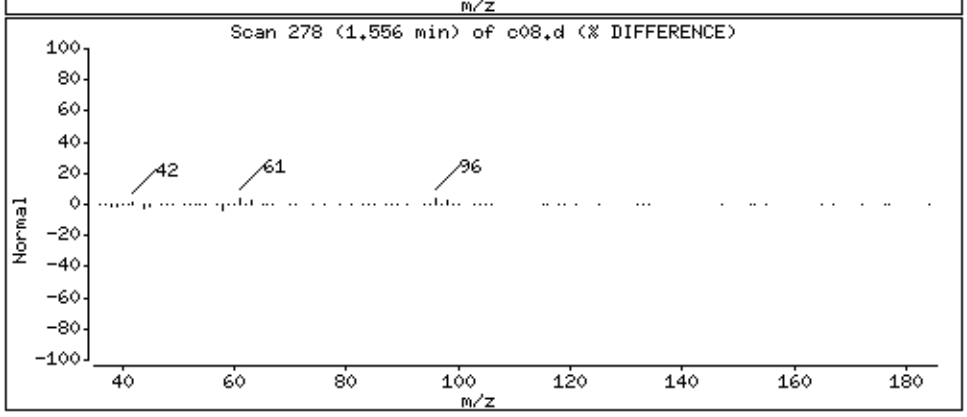












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

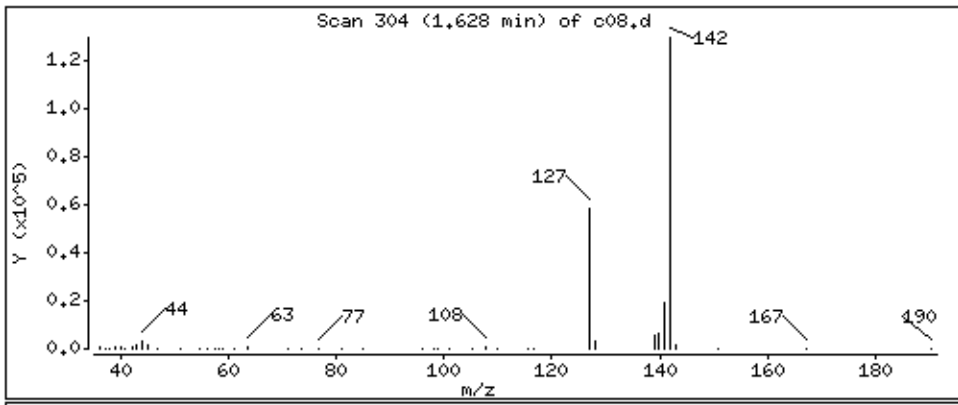
Operator: dae

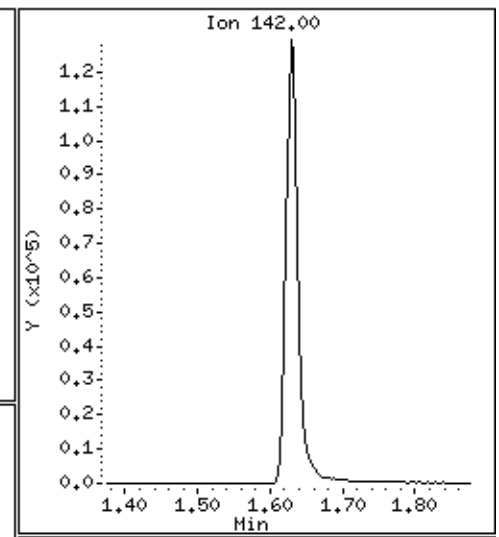
Column phase: DB-624

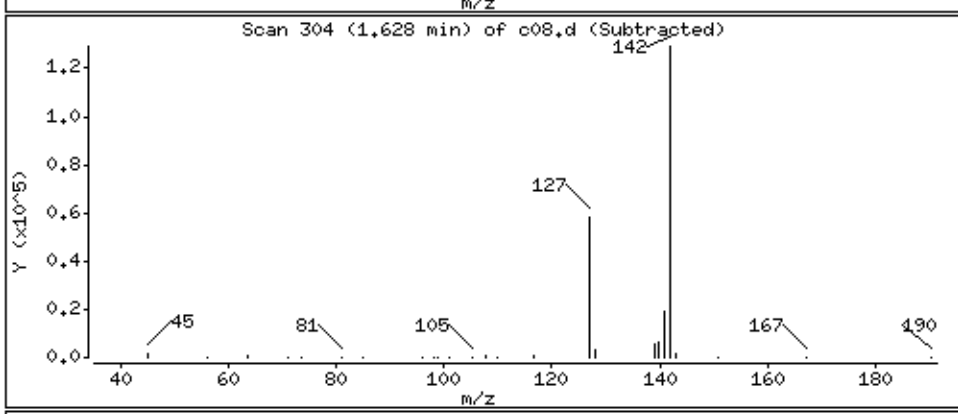
Column diameter: 0.18

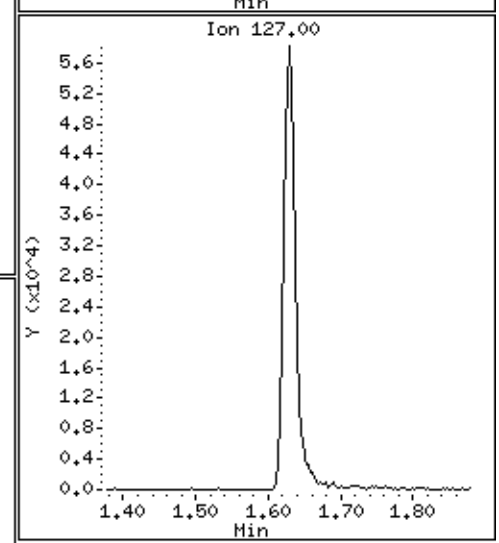
13 Iodomethane

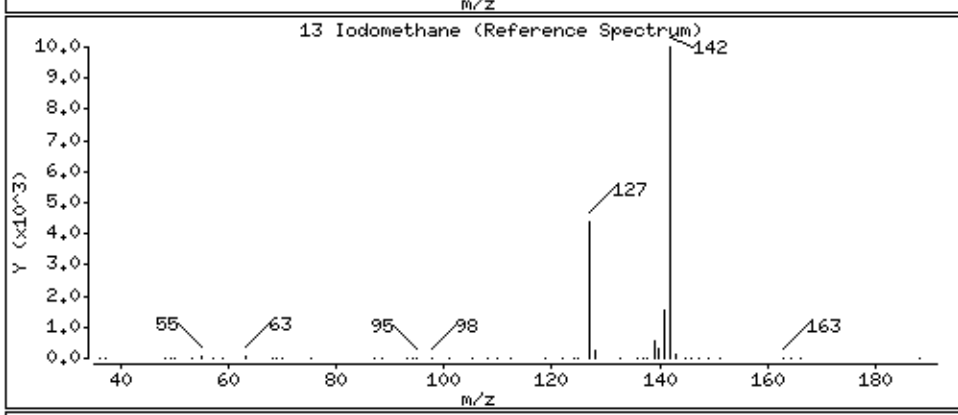
Concentration: 50.7 ppb

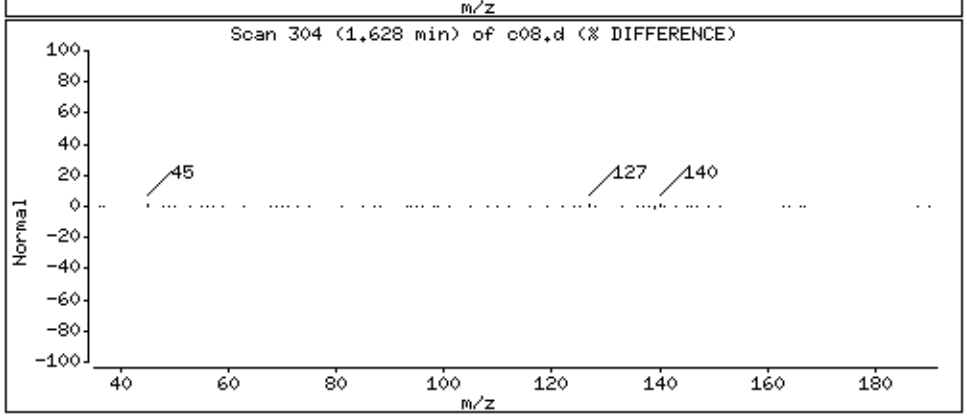












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

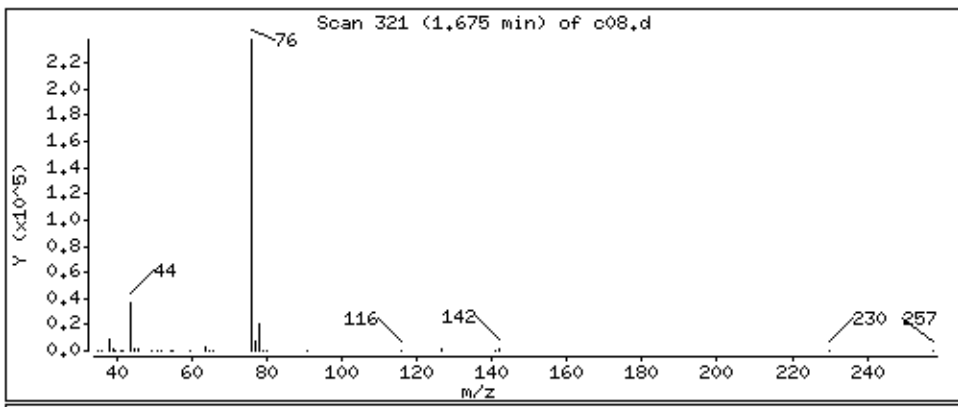
Operator: dae

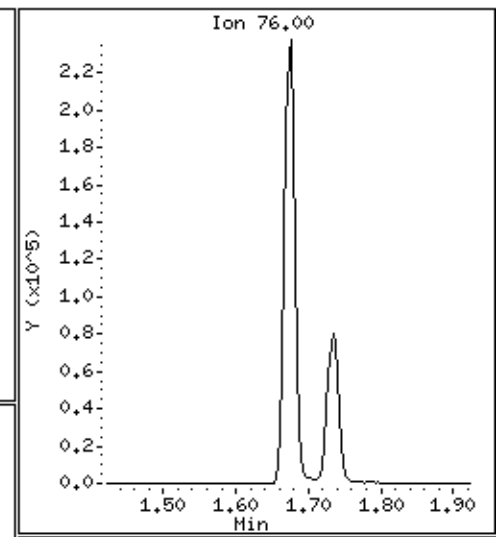
Column phase: DB-624

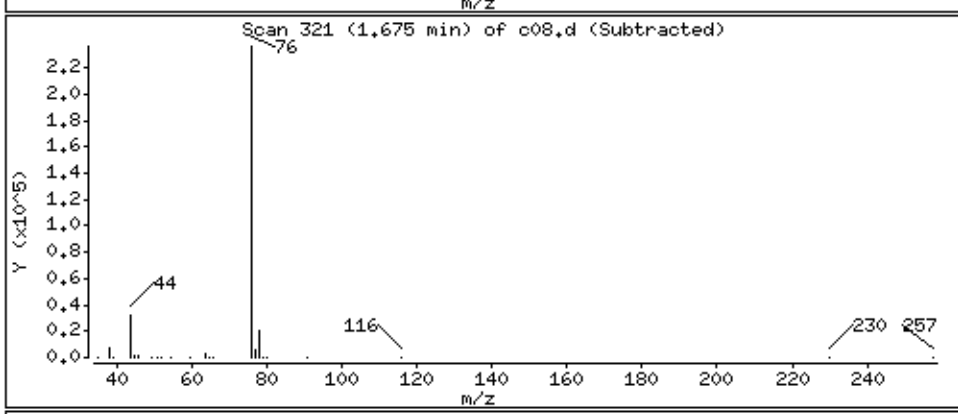
Column diameter: 0.18

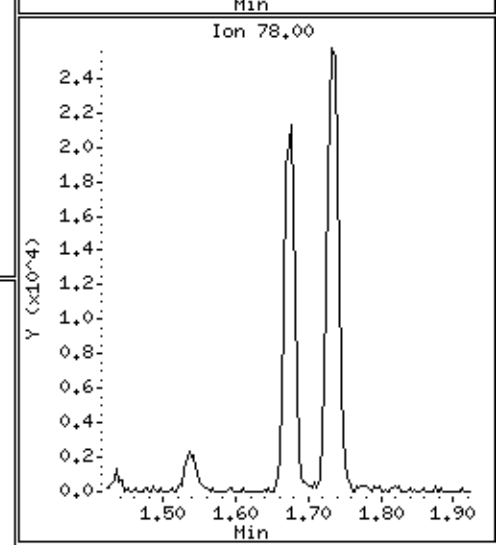
14 Carbon Disulfide

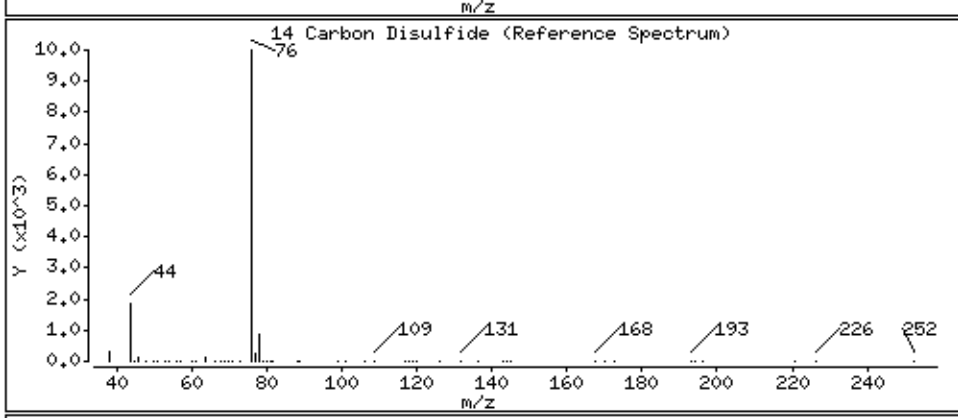
Concentration: 35.2 ppb

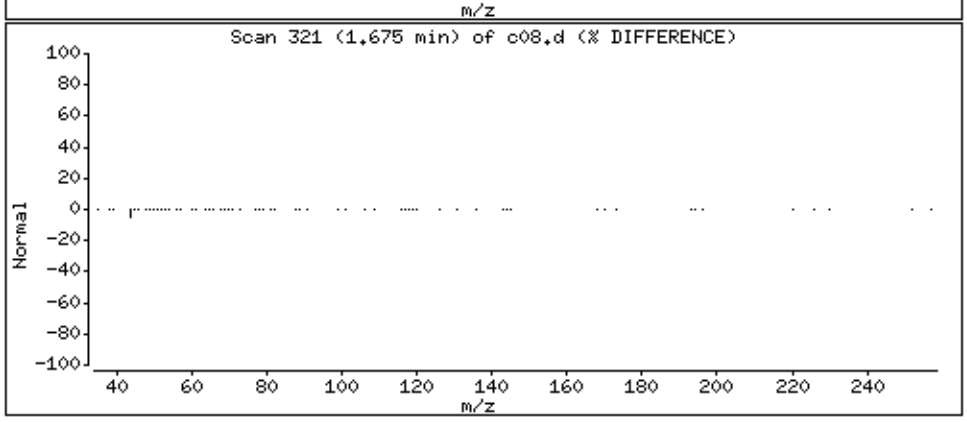












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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

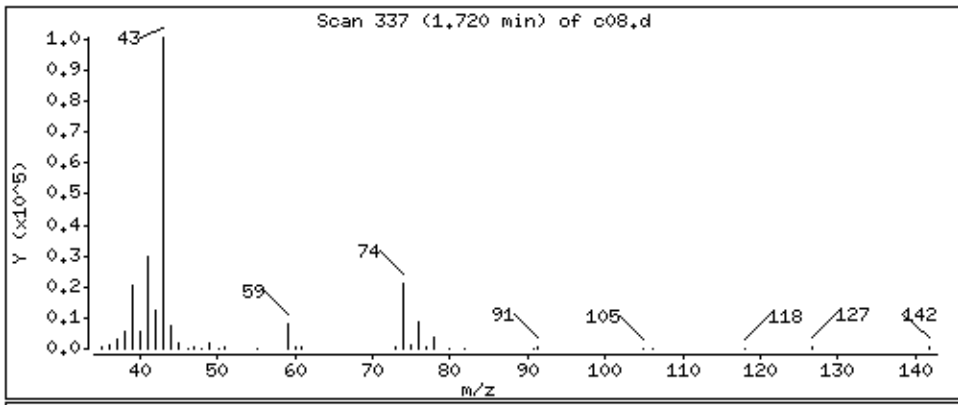
Operator: dae

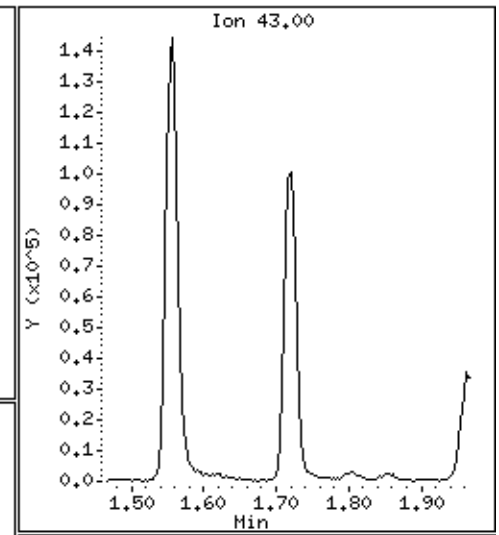
Column phase: DB-624

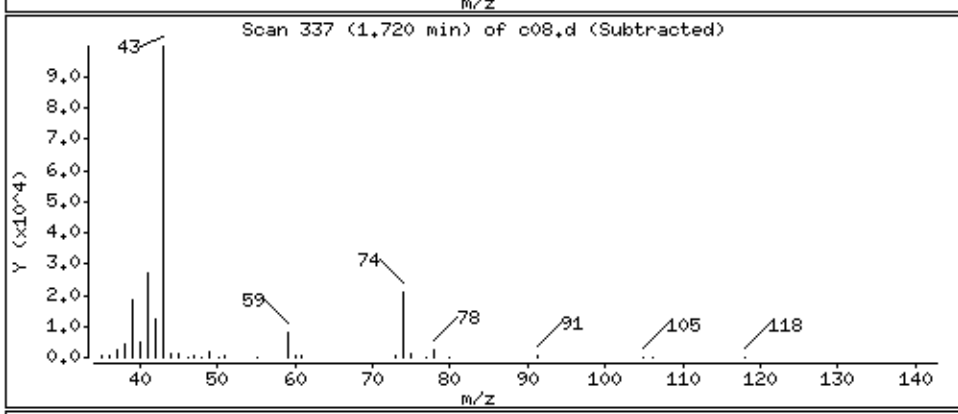
Column diameter: 0.18

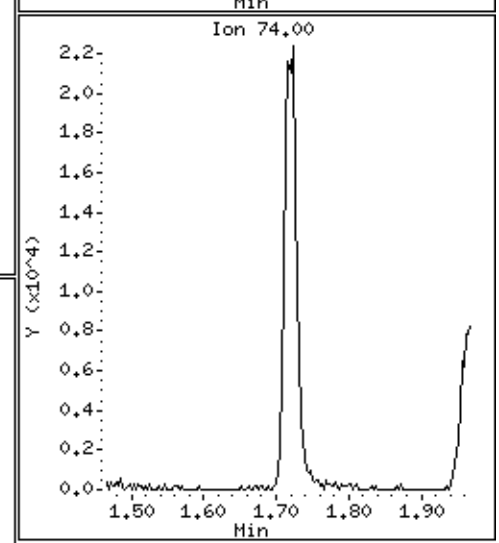
15 Methyl Acetate

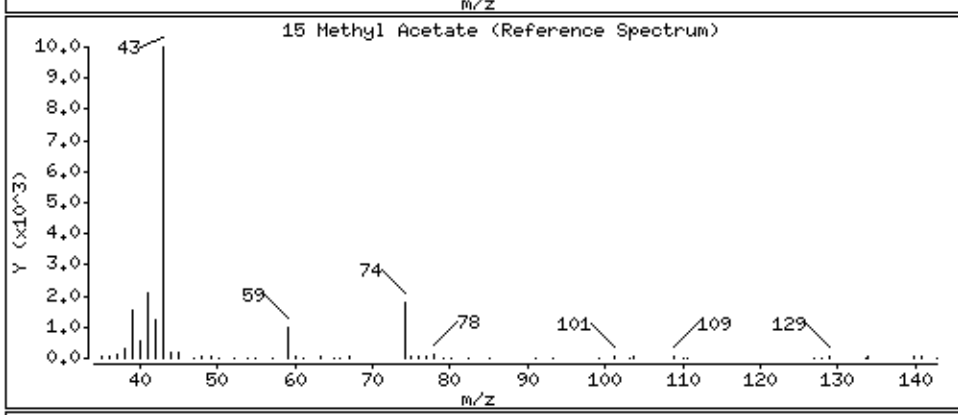
Concentration: 38.9 ppb

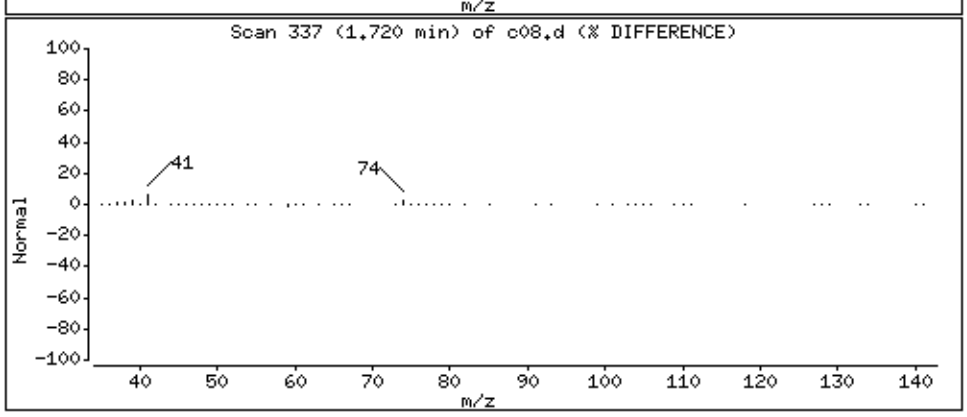












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

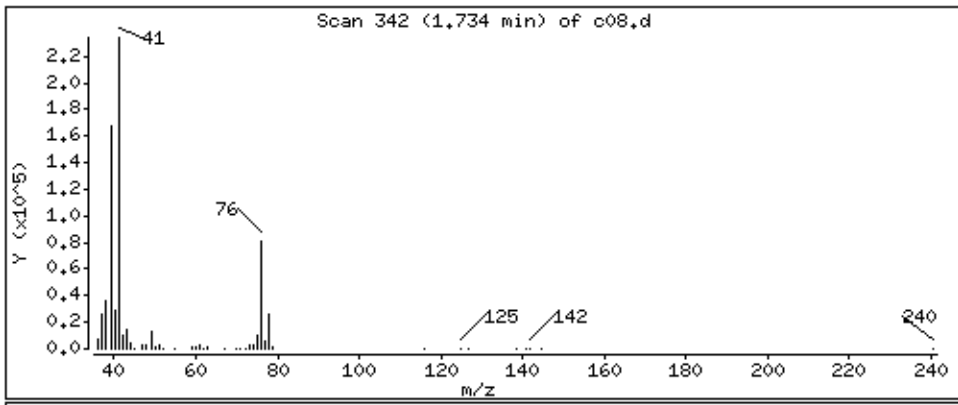
Operator: dae

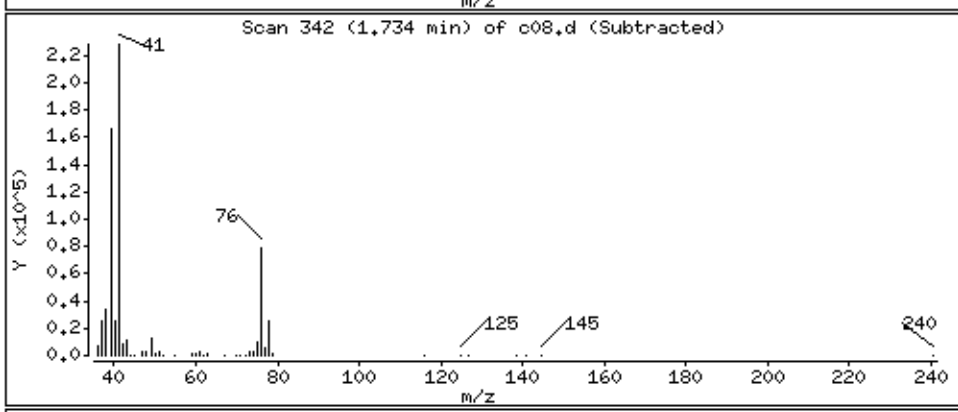
Column phase: DB-624

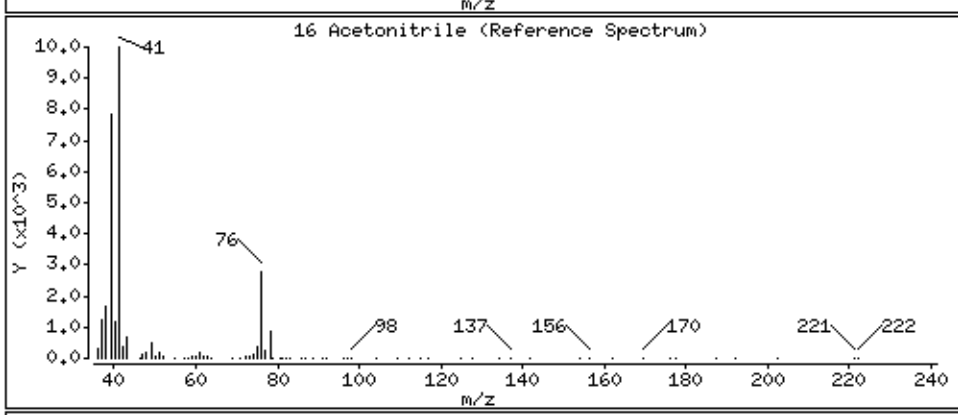
Column diameter: 0.18

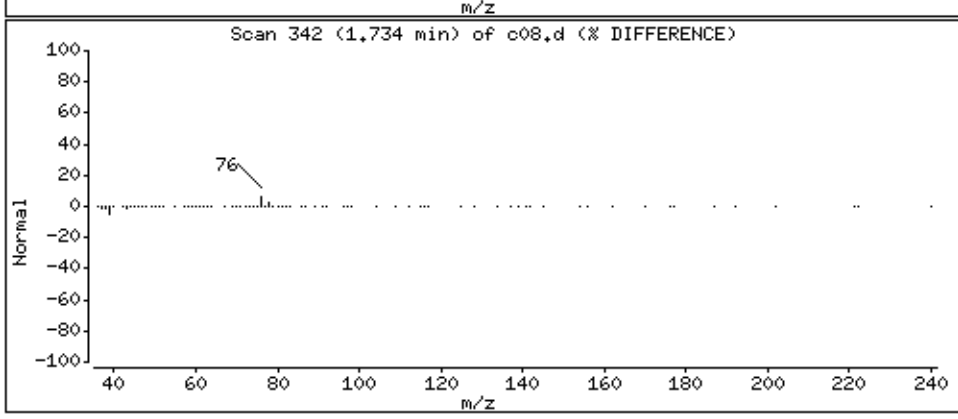
16 Acetonitrile

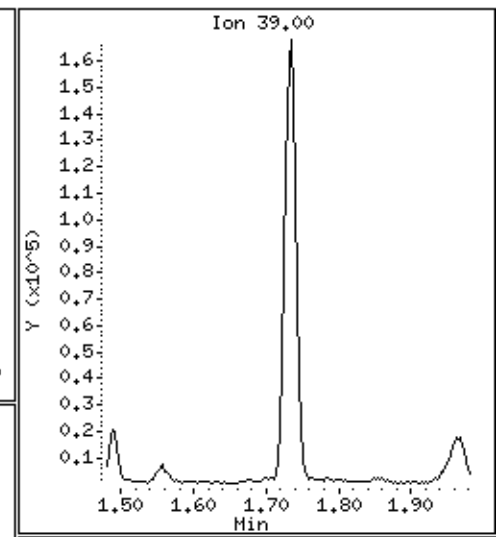
Concentration: 30.7 ppb

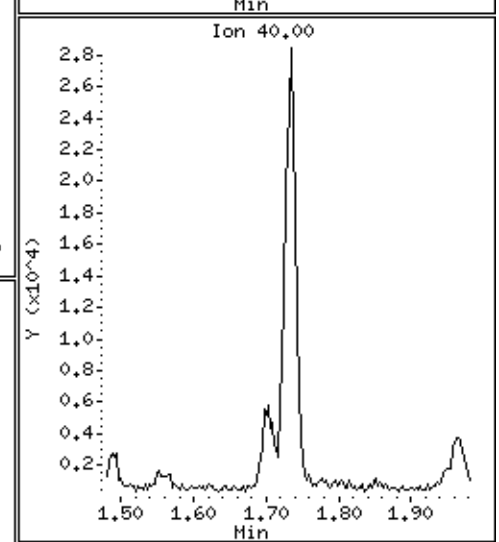


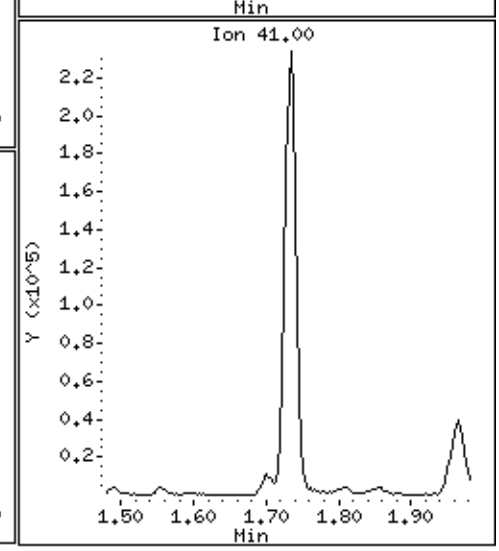












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

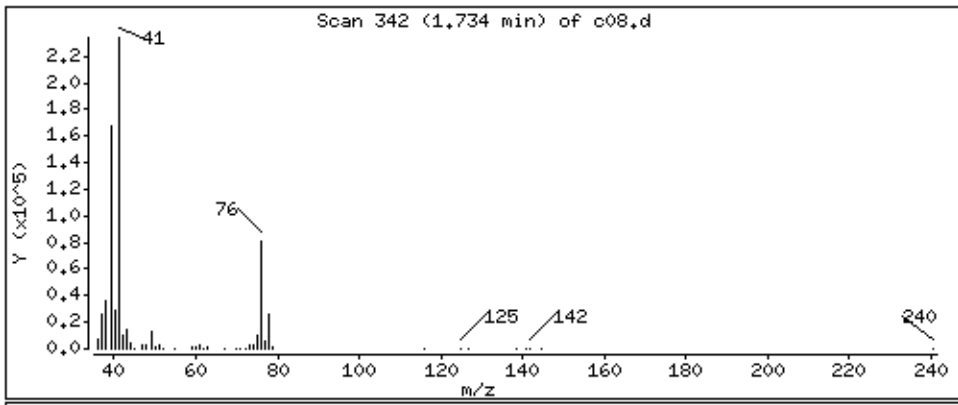
Operator: dae

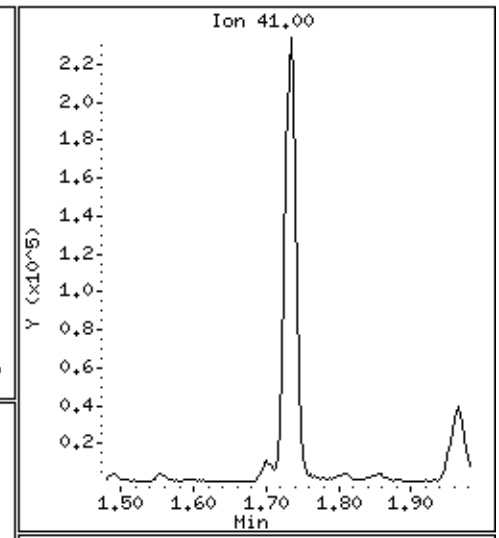
Column phase: DB-624

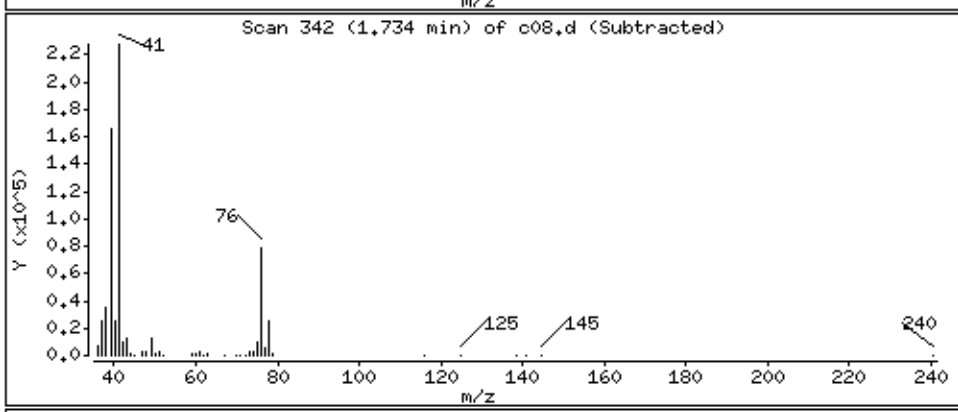
Column diameter: 0.18

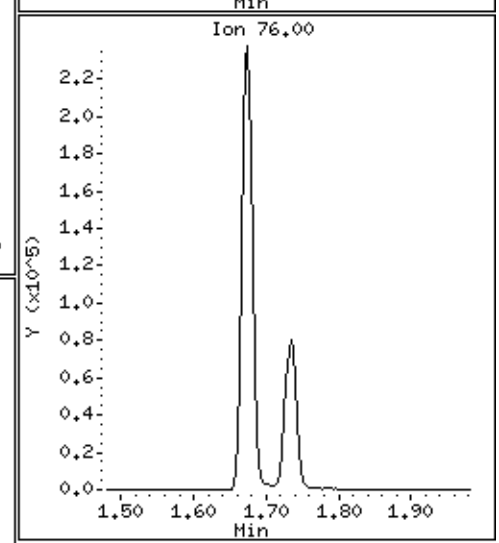
17 allyl chloride

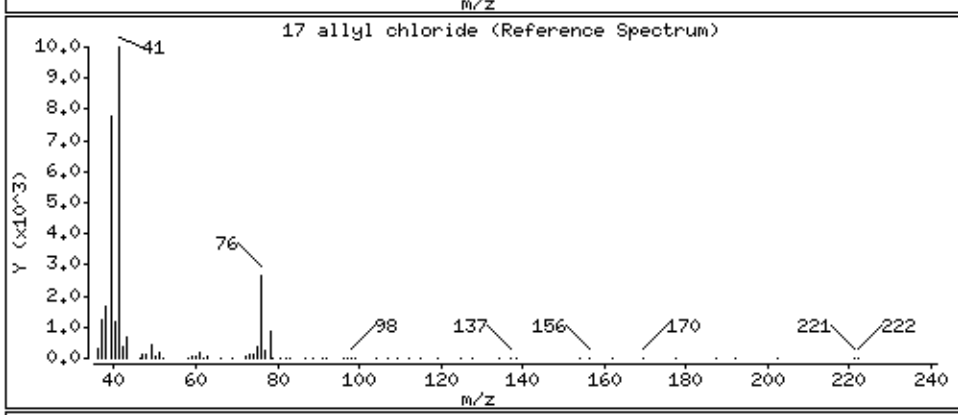
Concentration: 63.9 ppb

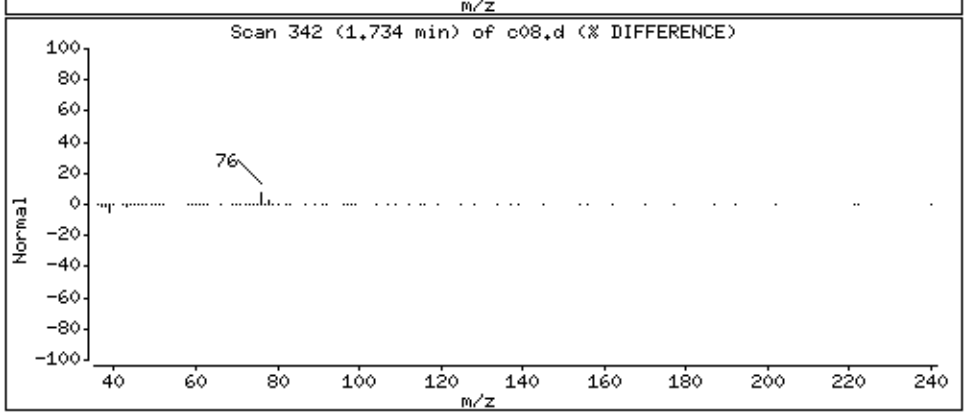












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

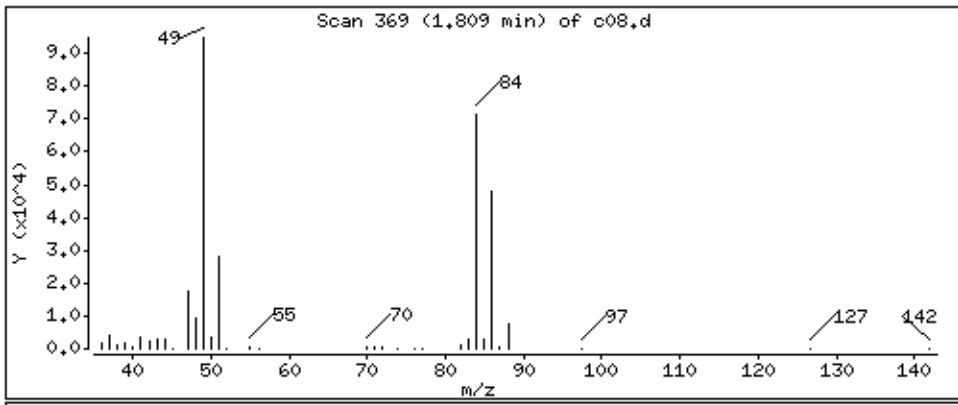
Operator: dae

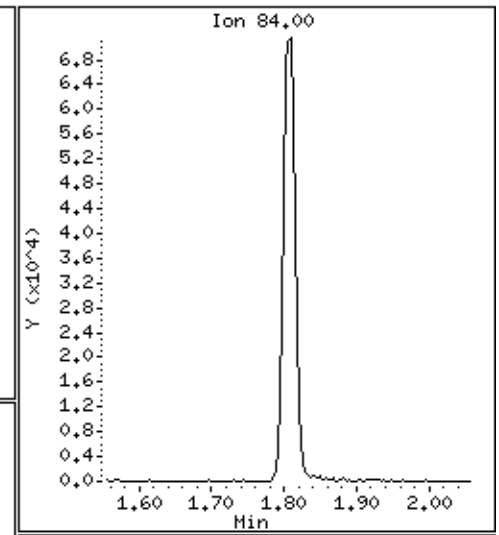
Column phase: DB-624

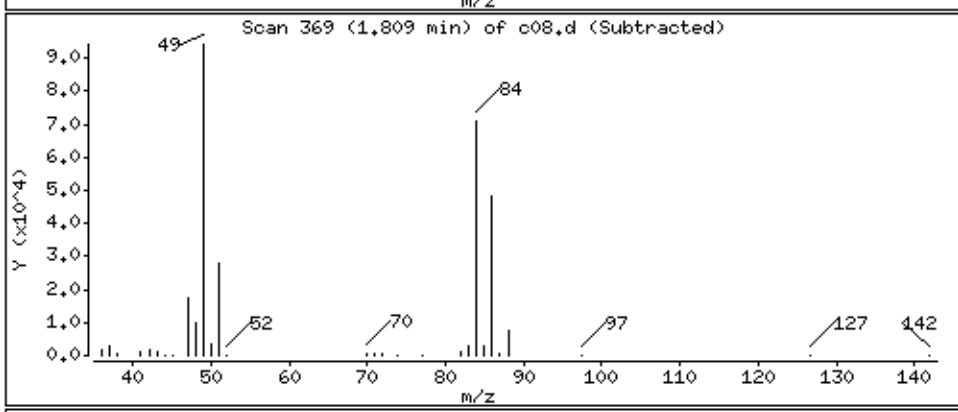
Column diameter: 0.18

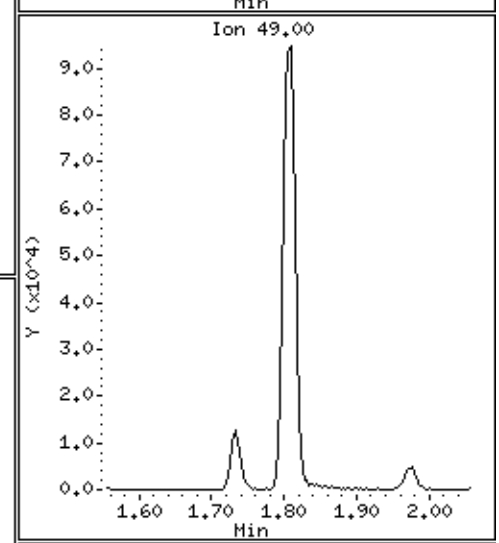
18 Methylene Chloride

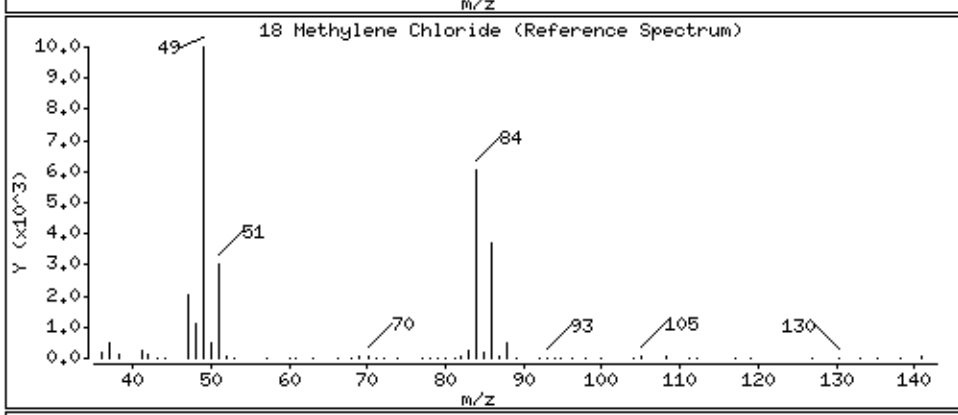
Concentration: 38.1 ppb

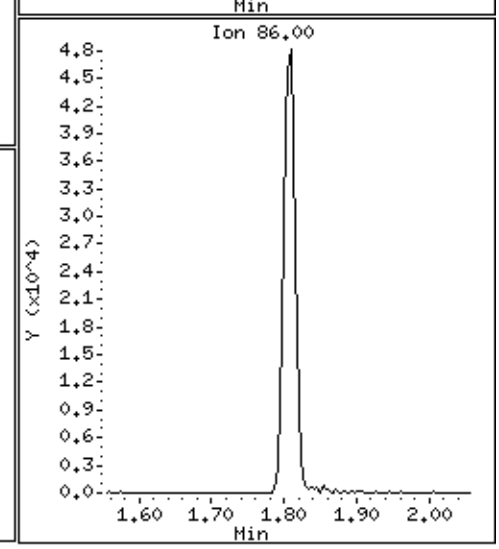


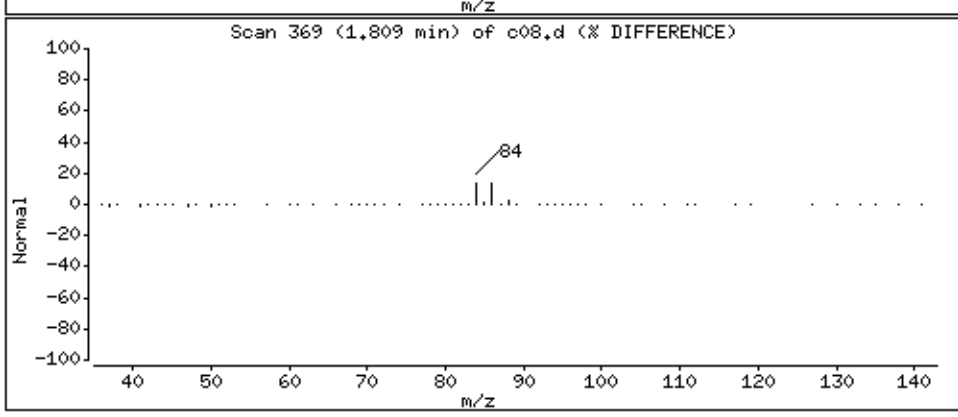












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

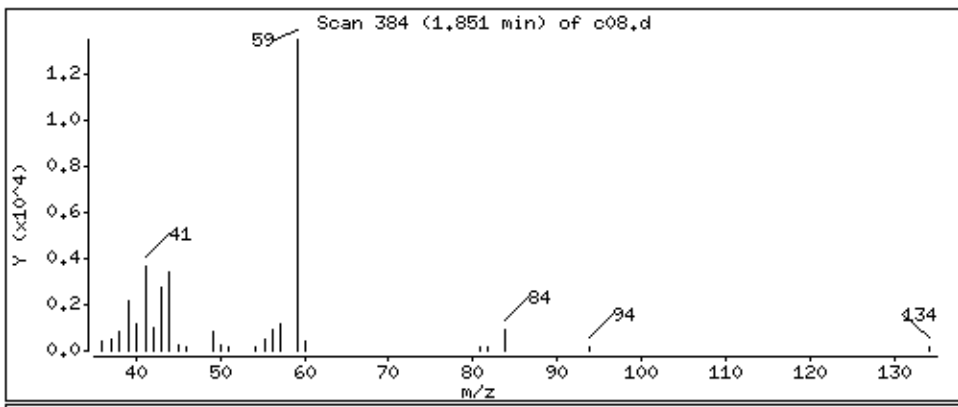
Operator: dae

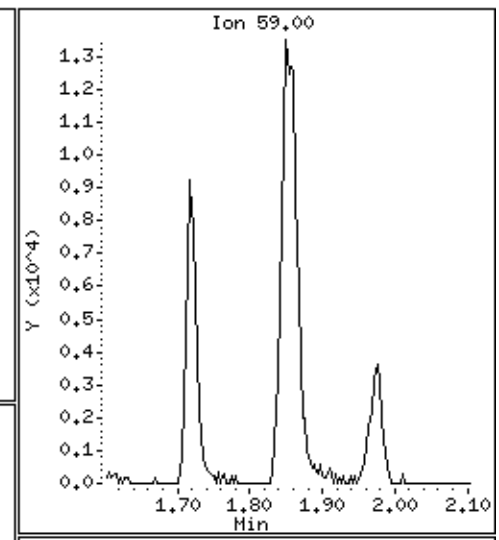
Column phase: DB-624

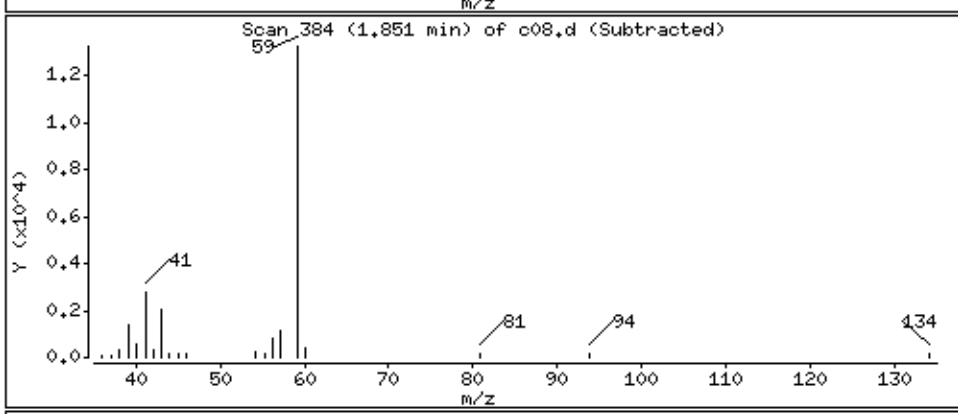
Column diameter: 0.18

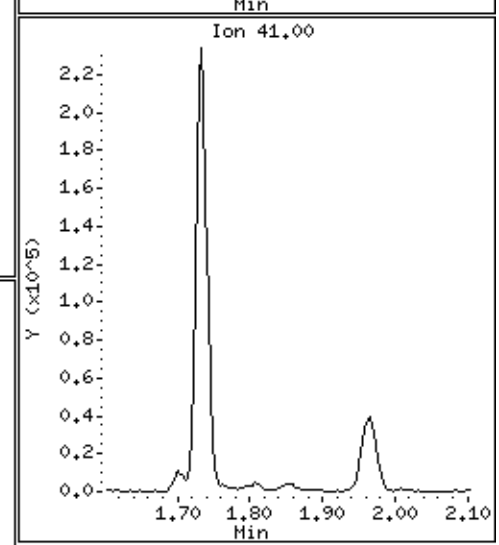
19 tert-Butyl Alcohol

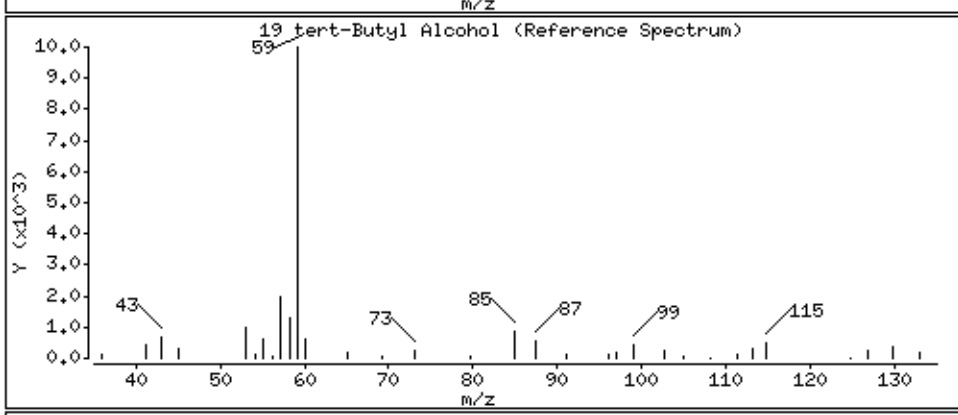
Concentration: 70.0 ppb

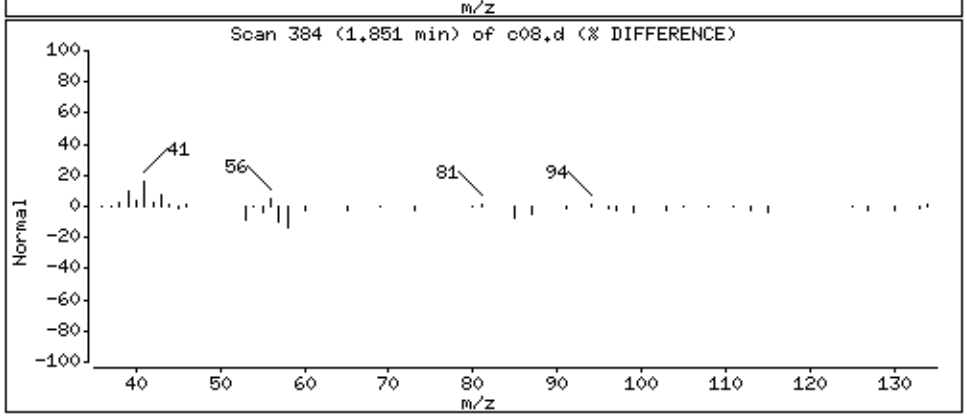












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

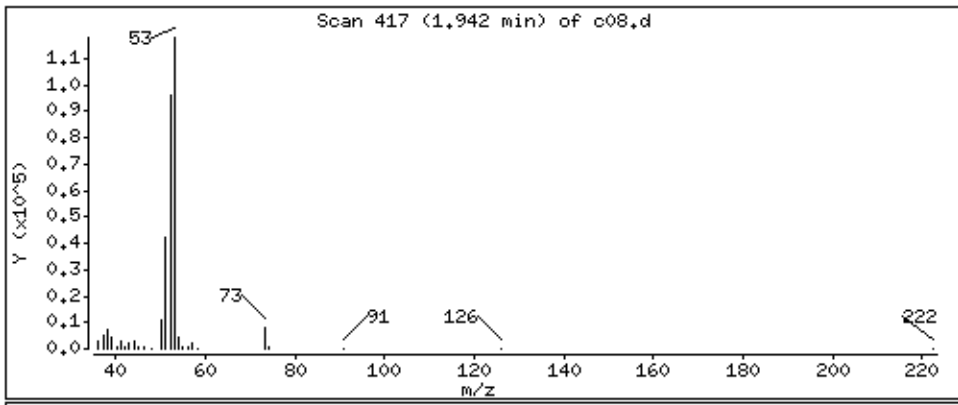
Operator: dae

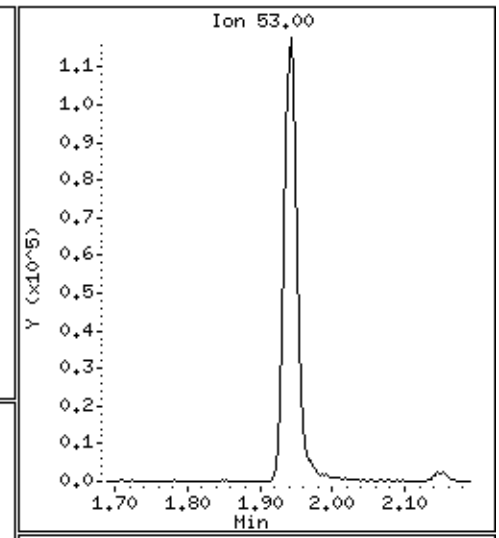
Column phase: DB-624

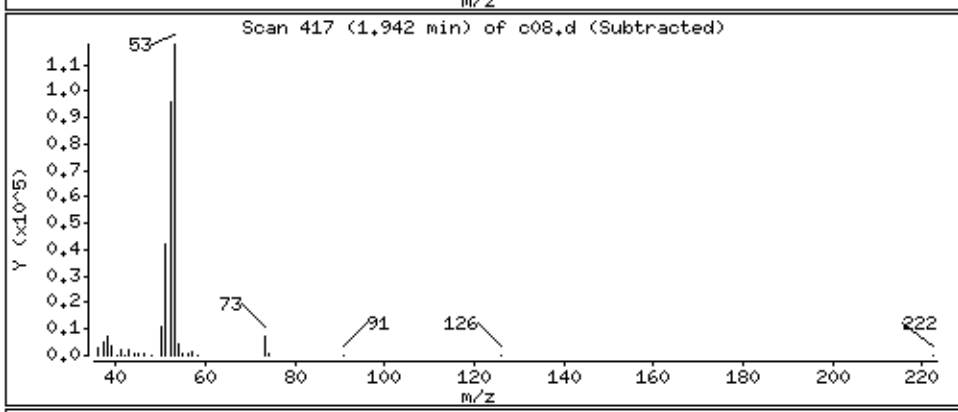
Column diameter: 0.18

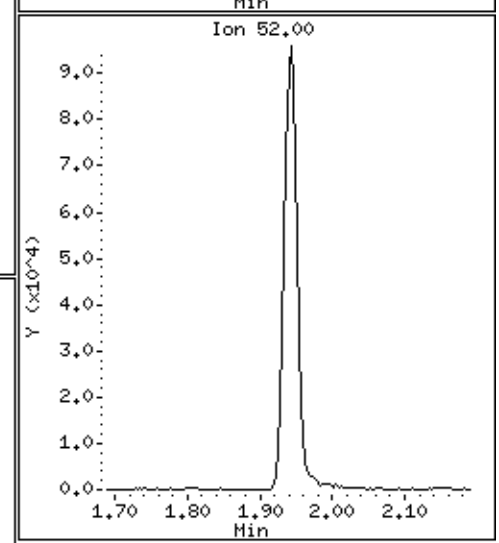
20 Acrylonitrile

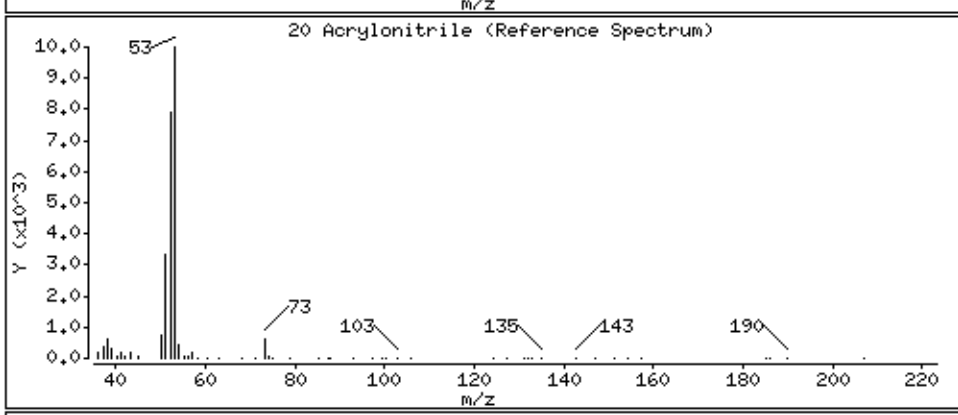
Concentration: 147 ppb

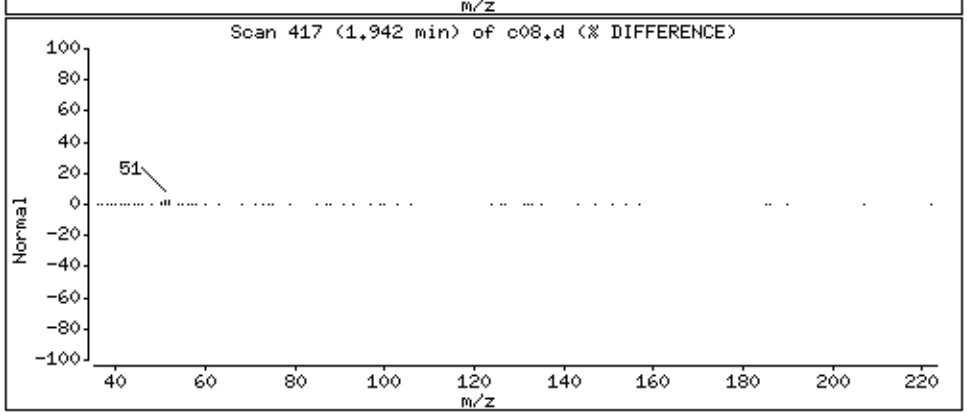












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

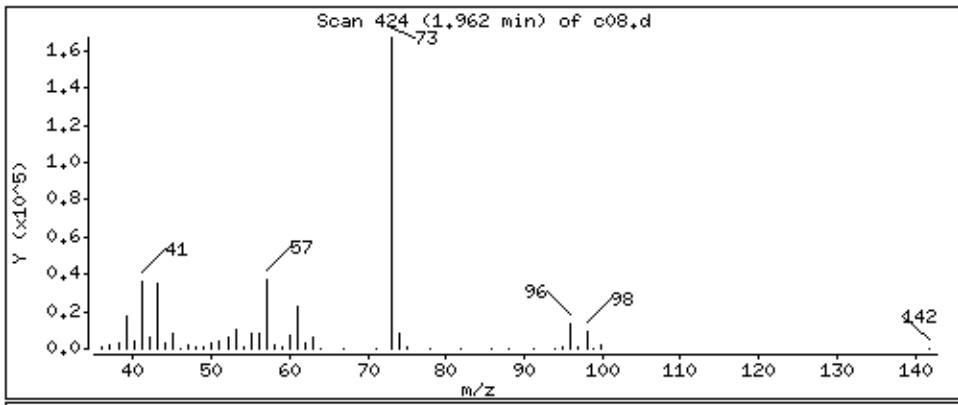
Operator: dae

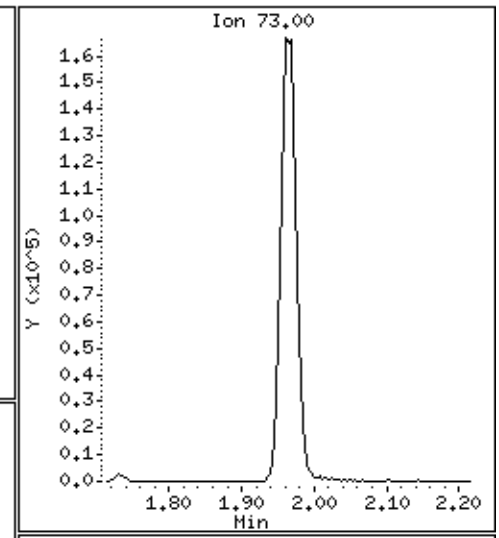
Column phase: DB-624

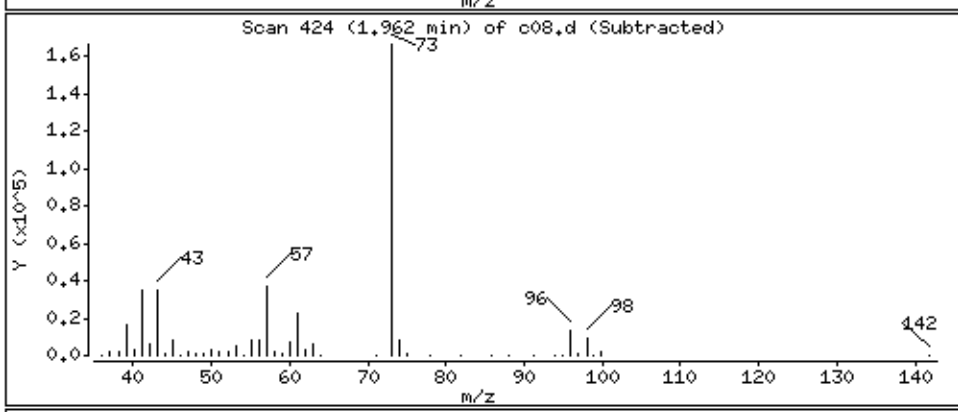
Column diameter: 0.18

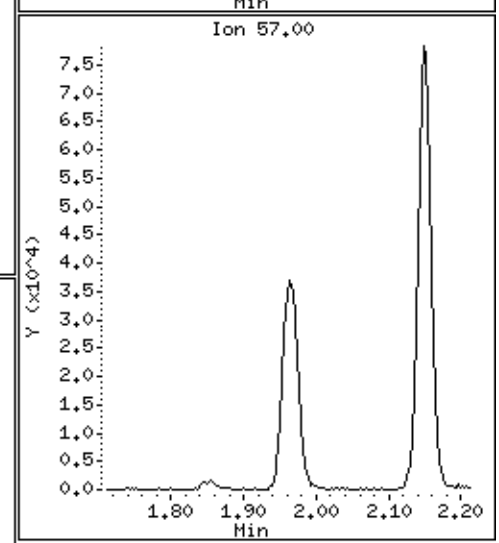
21 Methyl-tert-butyl ether

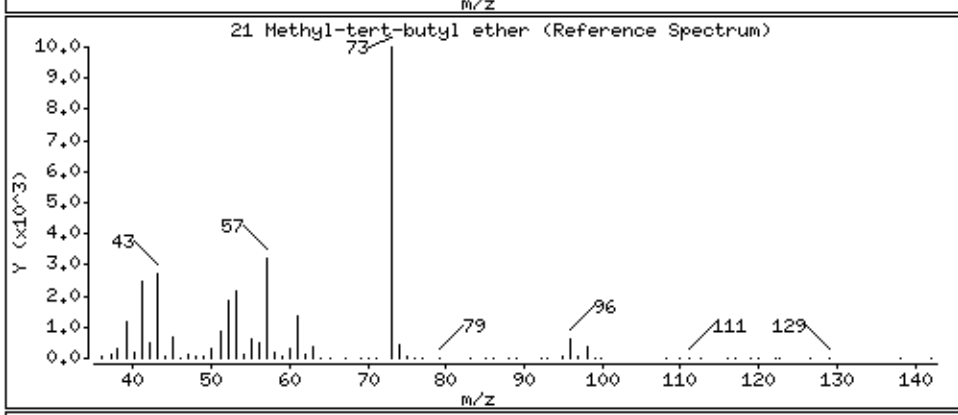
Concentration: 32.6 ppb

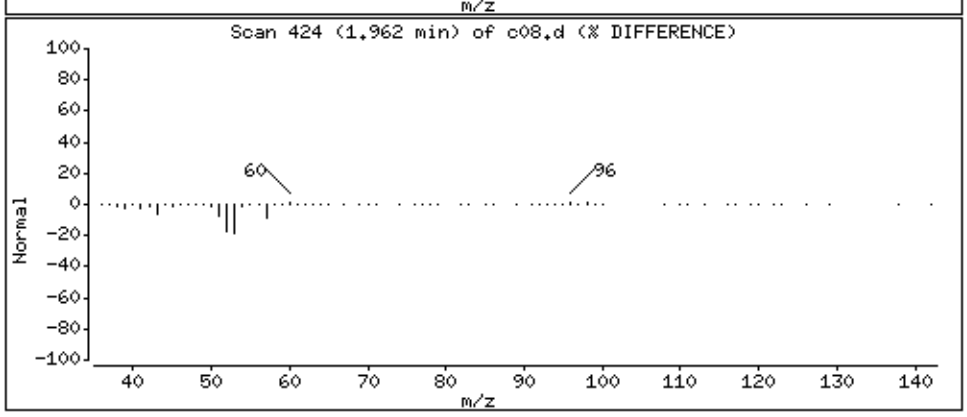












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

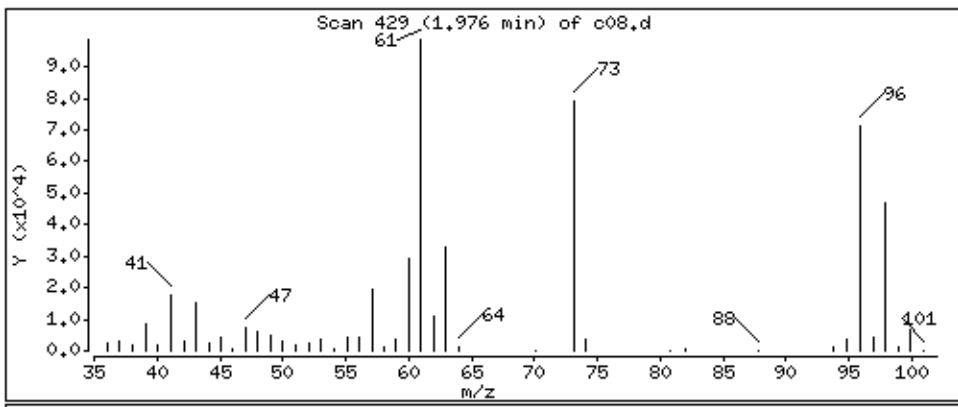
Operator: dae

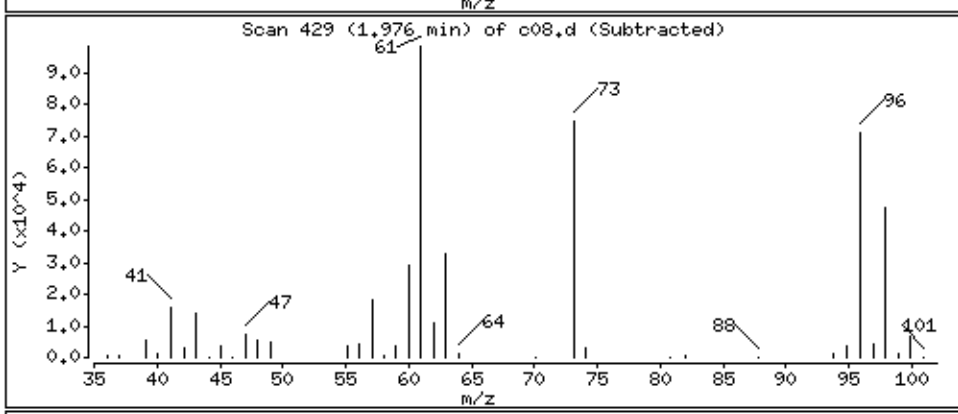
Column phase: DB-624

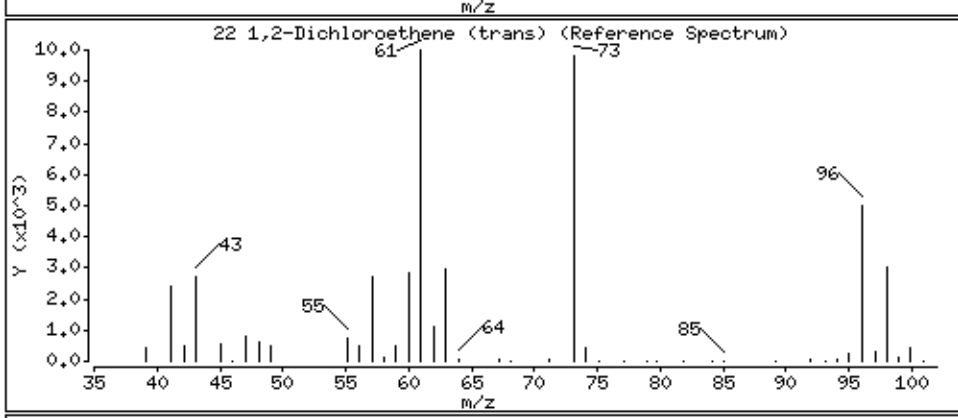
Column diameter: 0.18

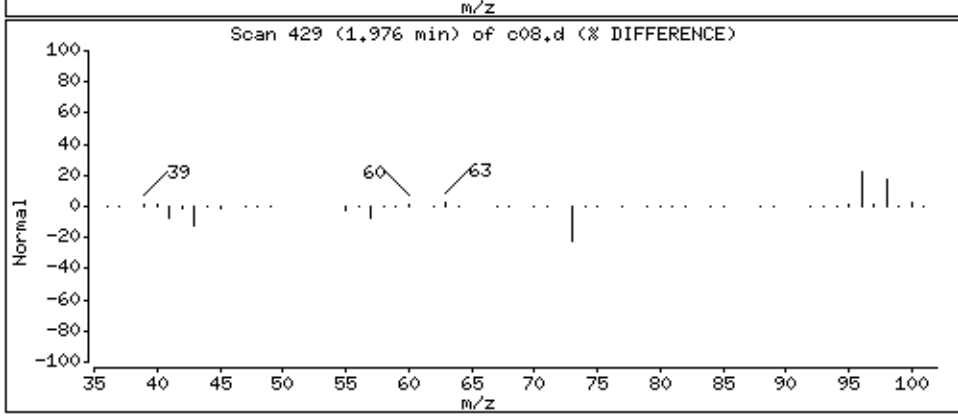
22 1,2-Dichloroethene (trans)

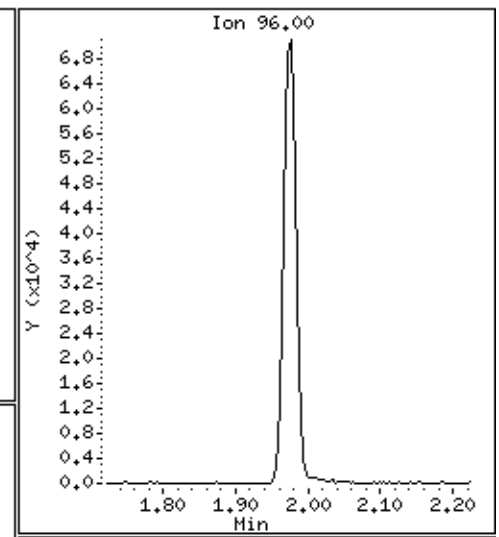
Concentration: 36.8 ppb

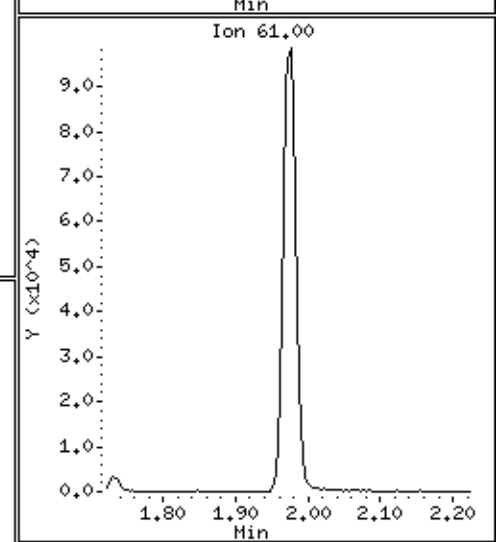


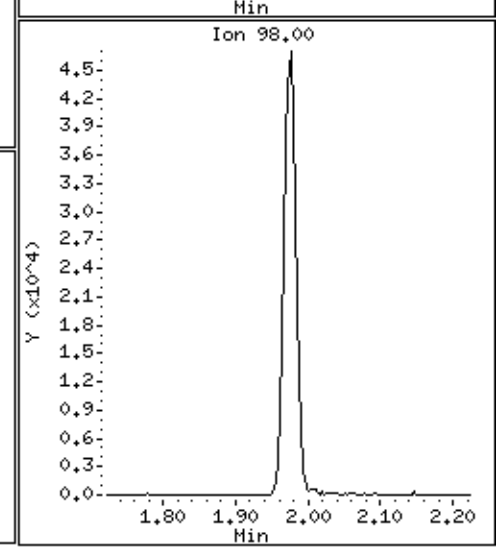












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

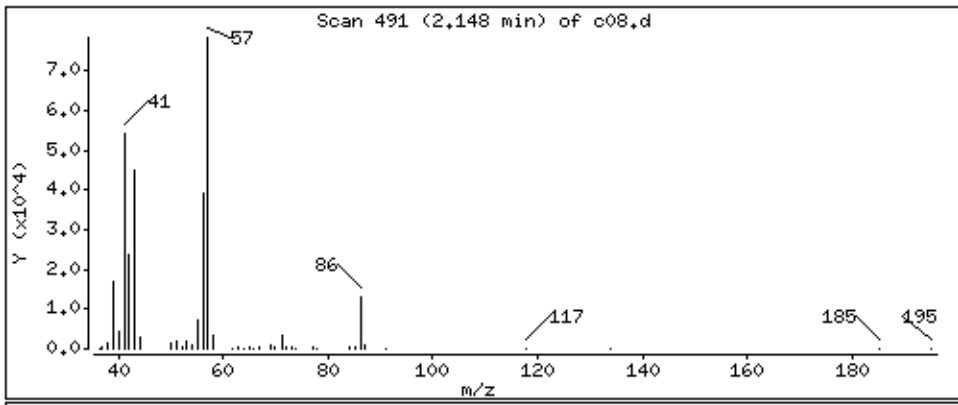
Operator: dae

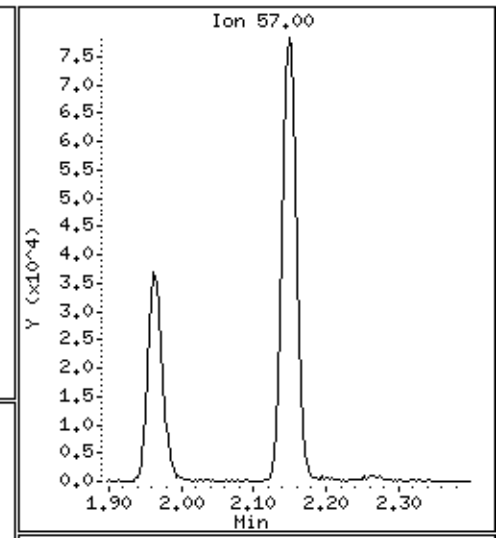
Column phase: DB-624

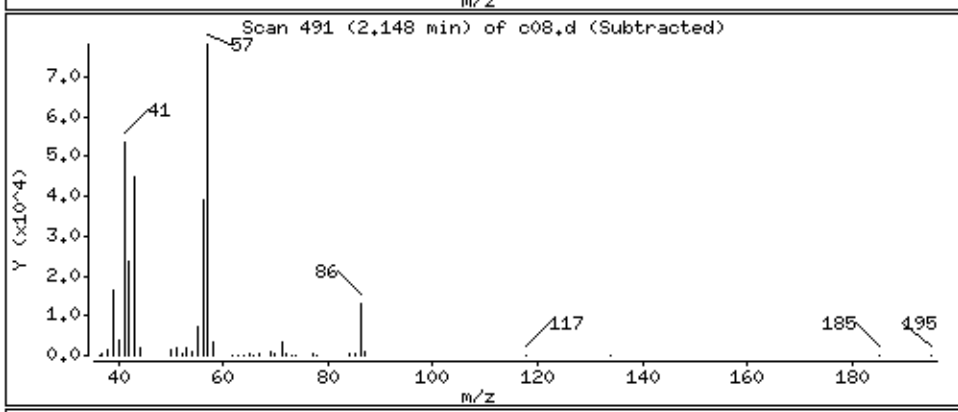
Column diameter: 0.18

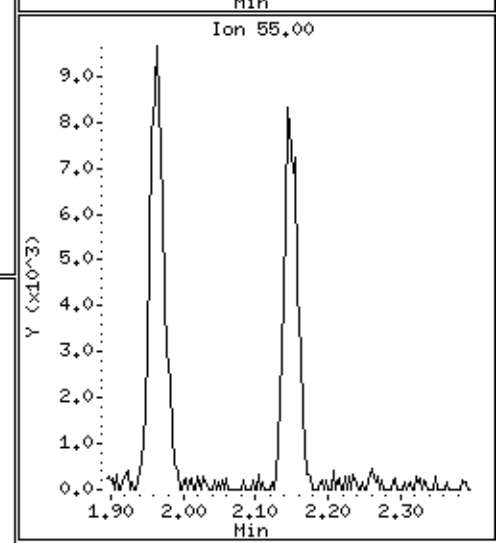
23 n-Hexane

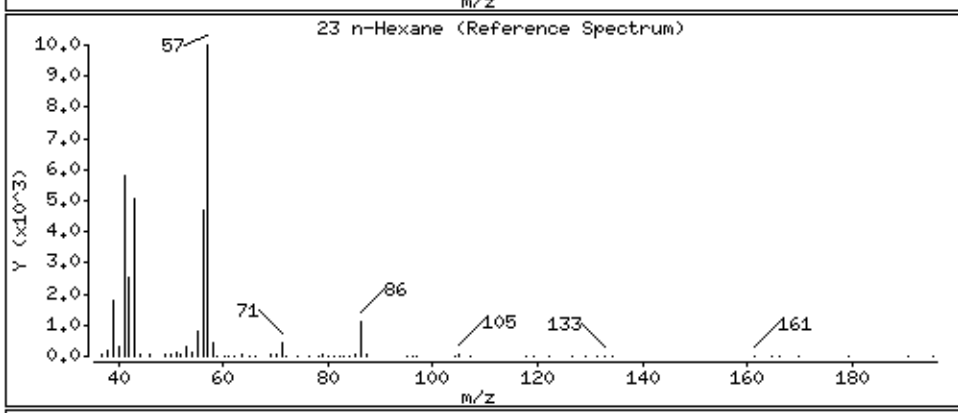
Concentration: 33.3 ppb

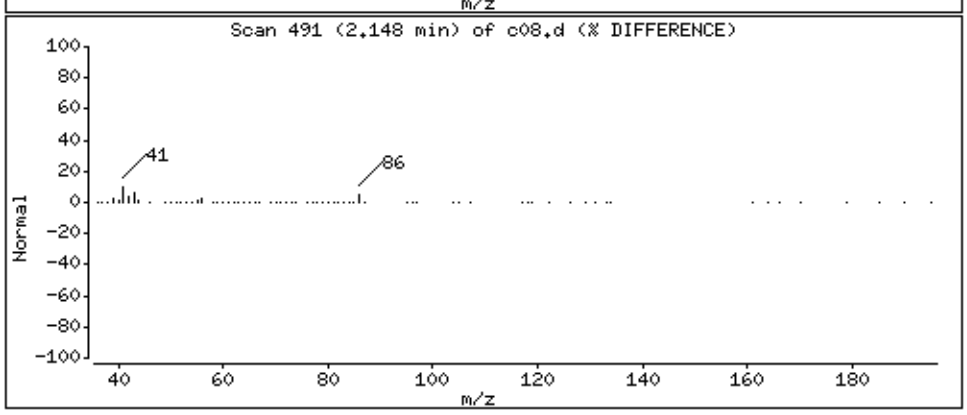












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

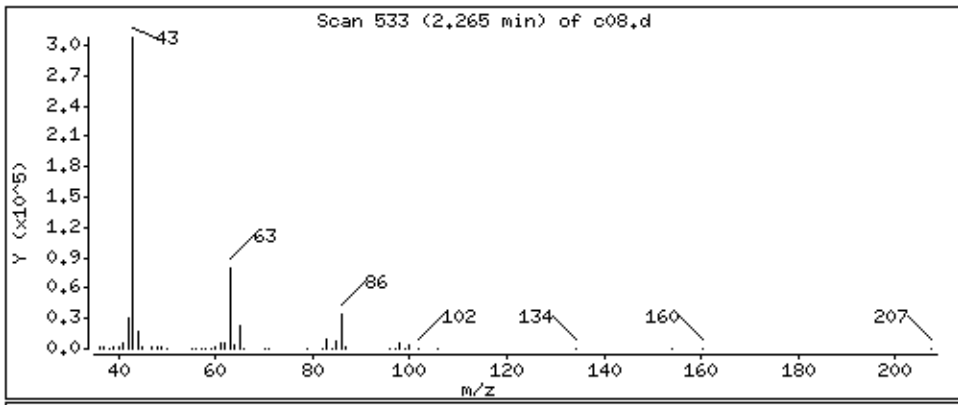
Operator: dae

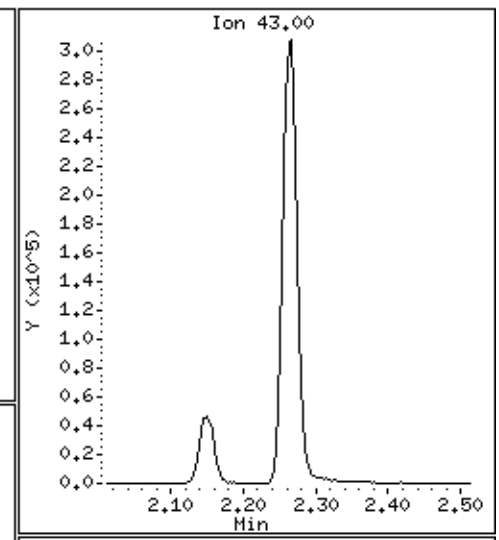
Column phase: DB-624

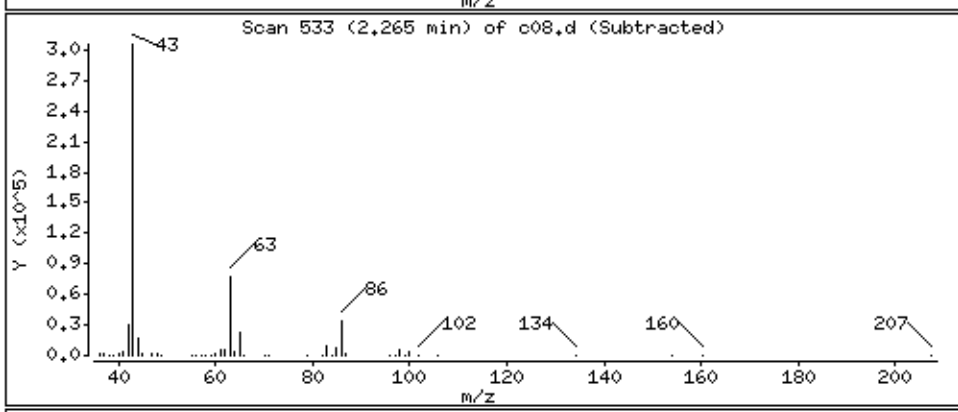
Column diameter: 0.18

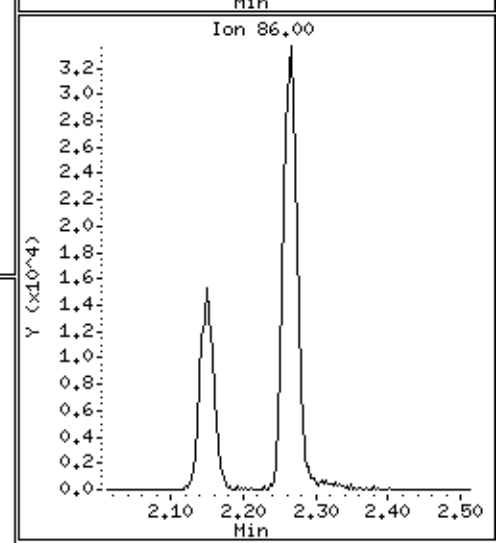
24 Vinyl Acetate

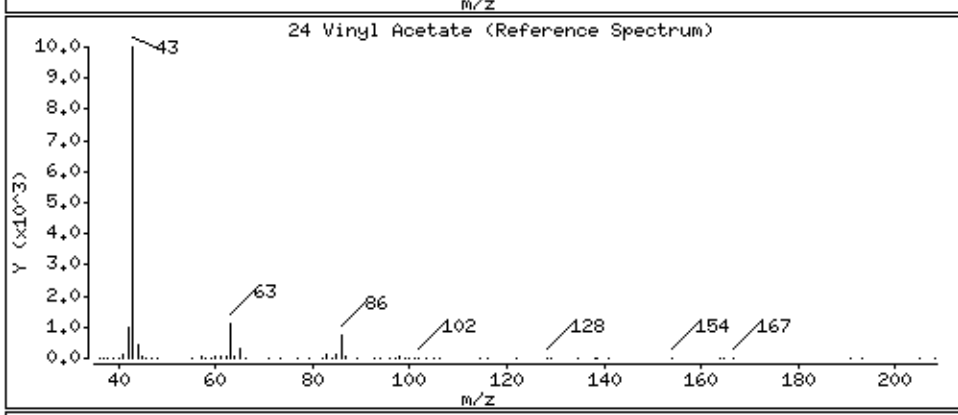
Concentration: 83.5 ppb

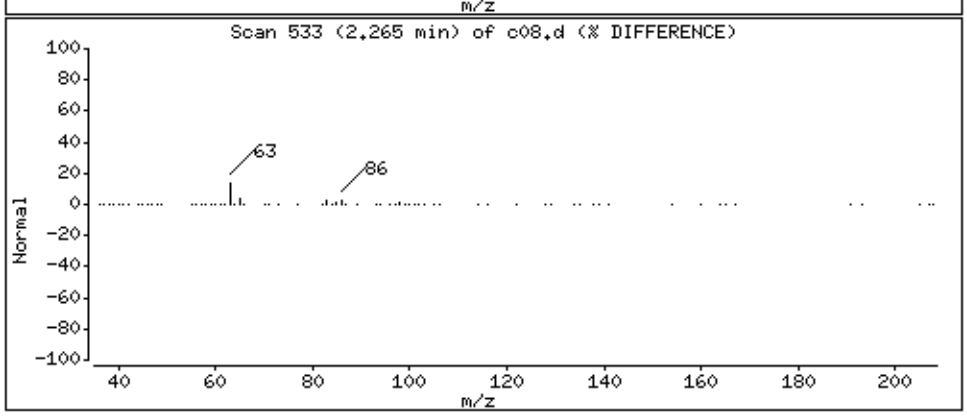












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

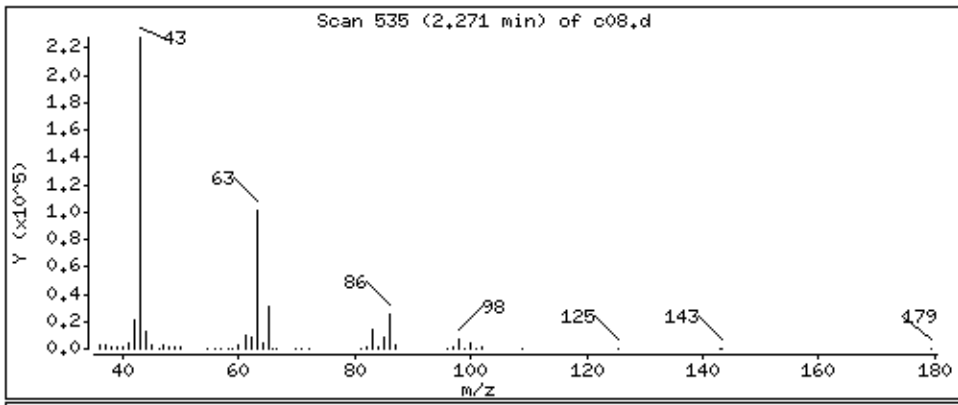
Operator: dae

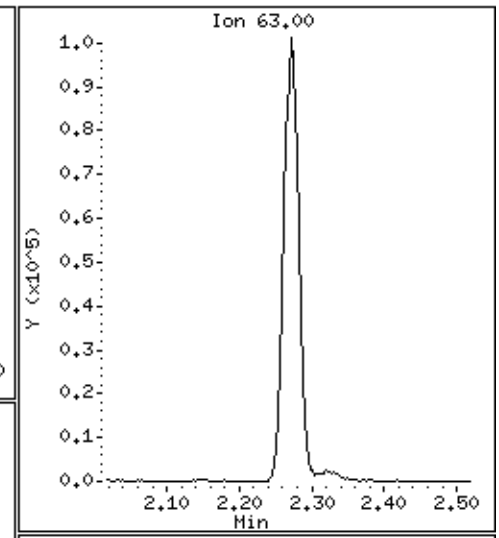
Column phase: DB-624

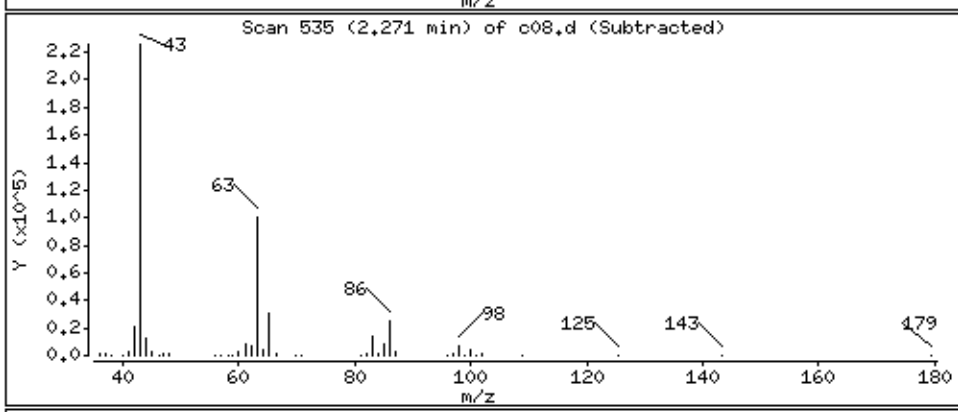
Column diameter: 0.18

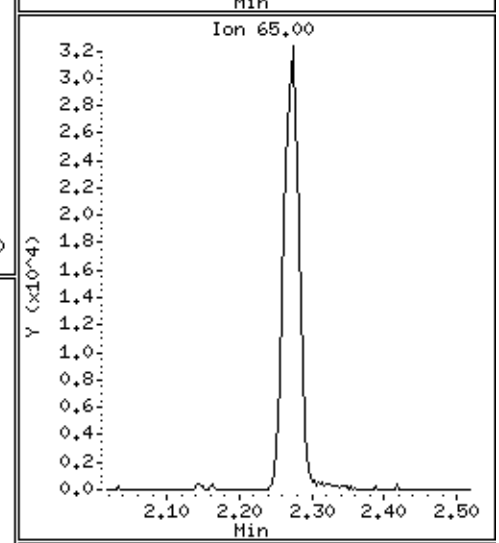
25 1,1-Dichloroethane

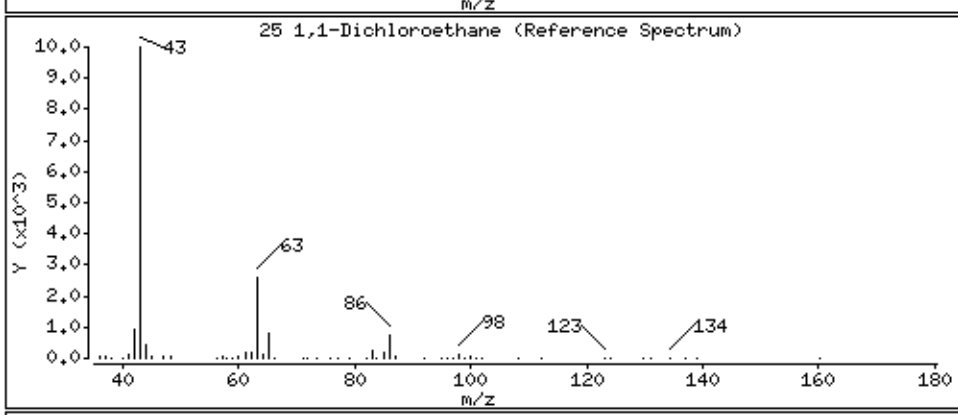
Concentration: 35.7 ppb

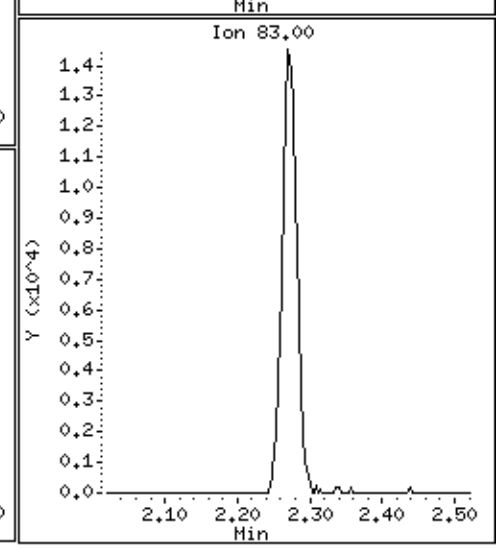


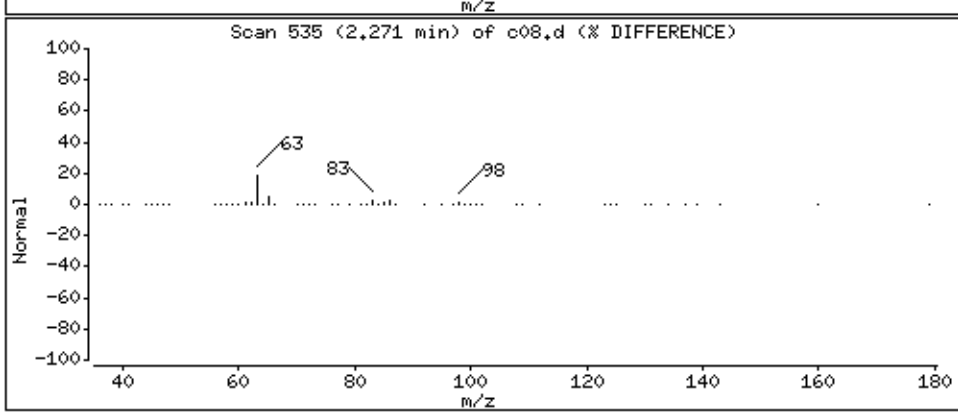












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

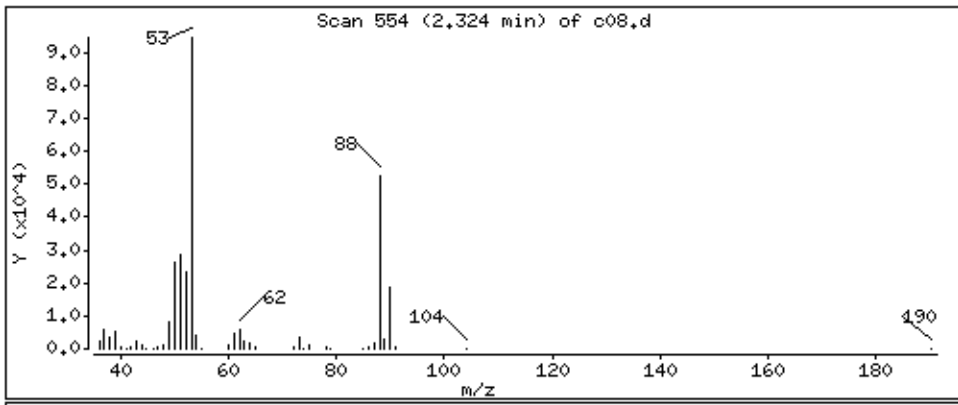
Operator: dae

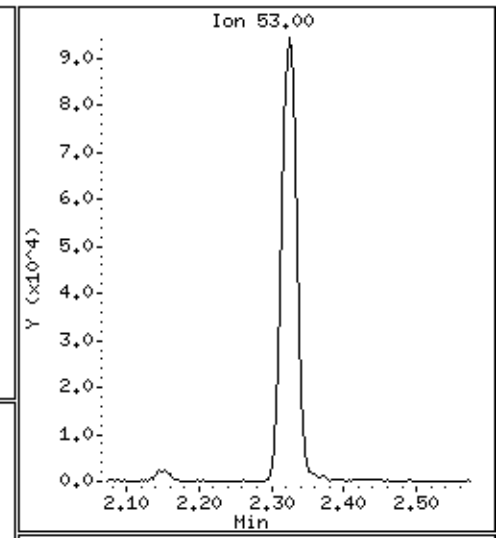
Column phase: DB-624

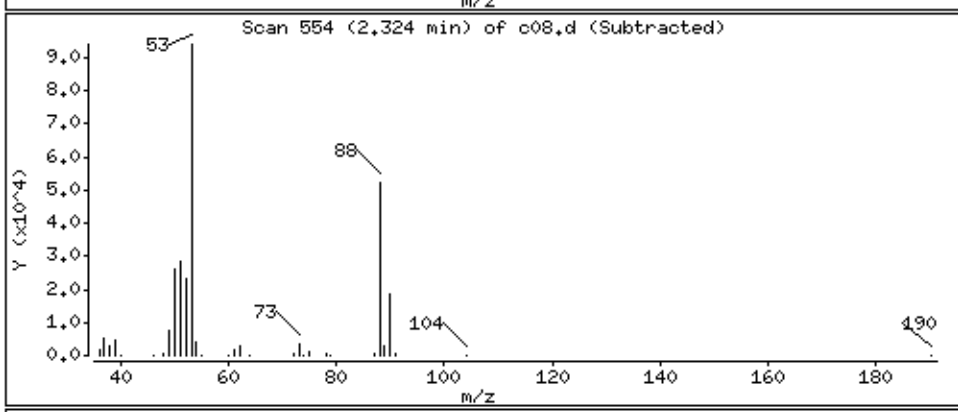
Column diameter: 0.18

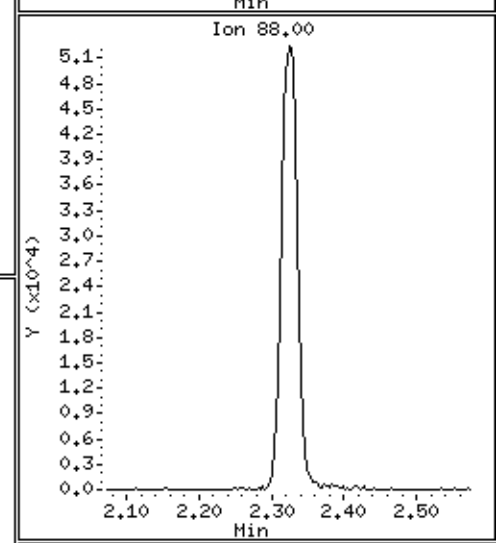
26 Chloroprene

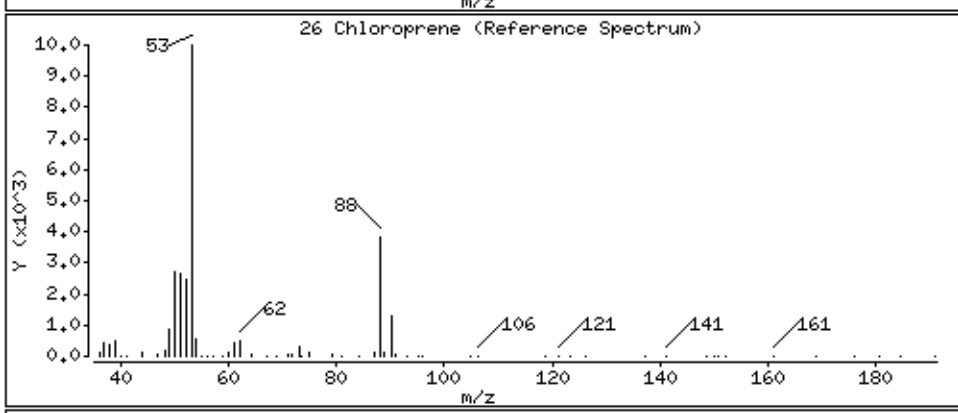
Concentration: 37.7 ppb

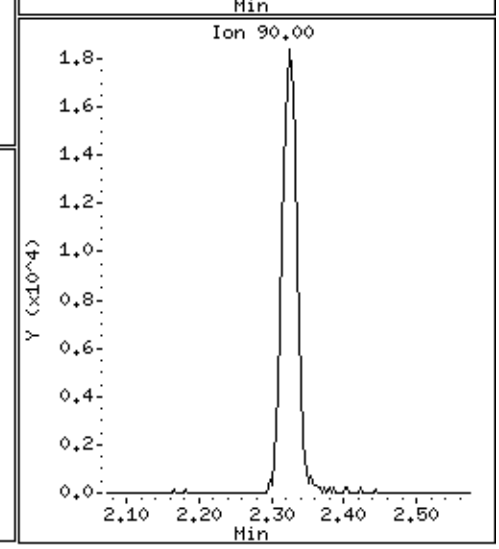


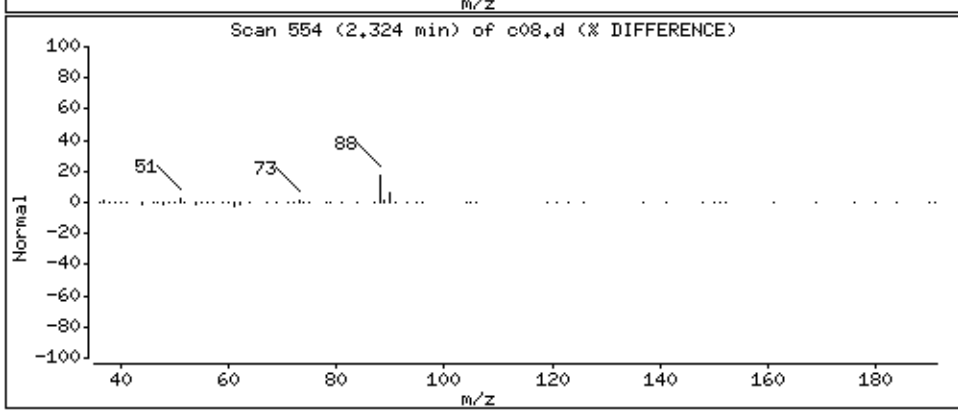












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

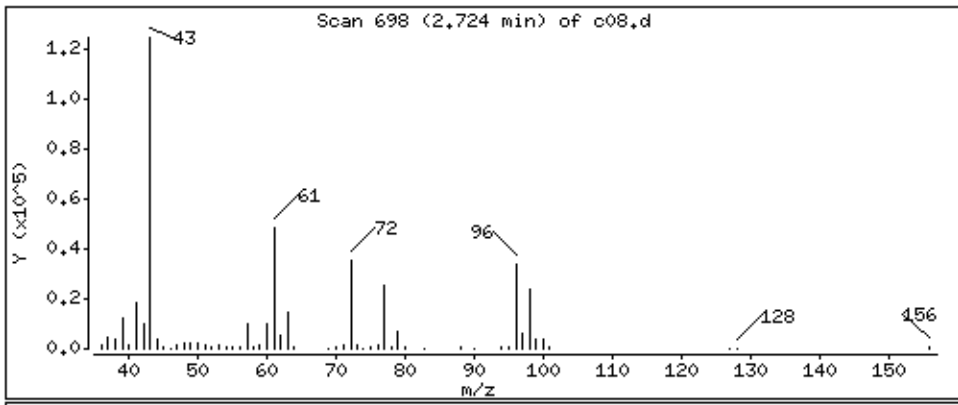
Operator: dae

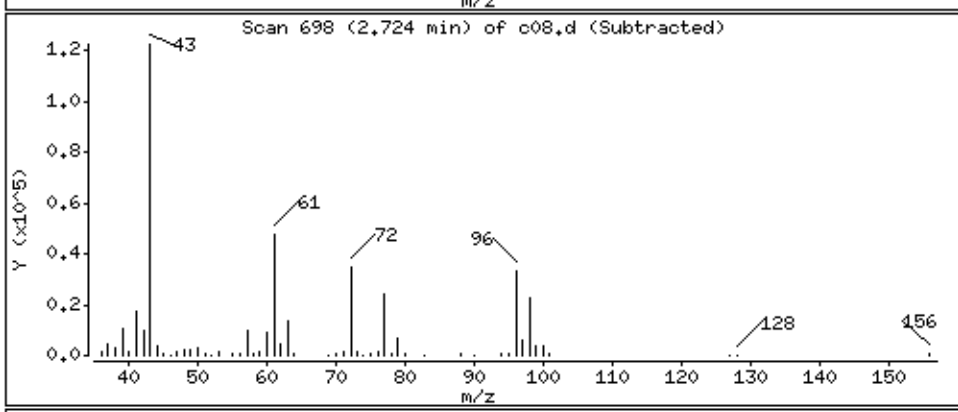
Column phase: DB-624

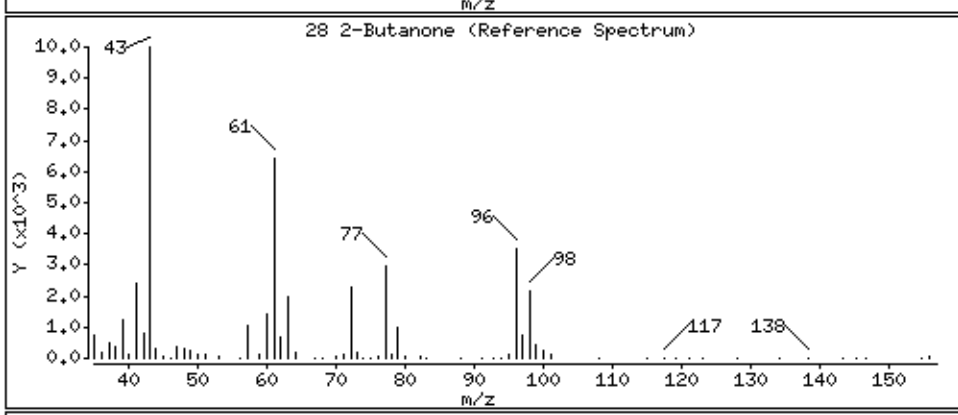
Column diameter: 0.18

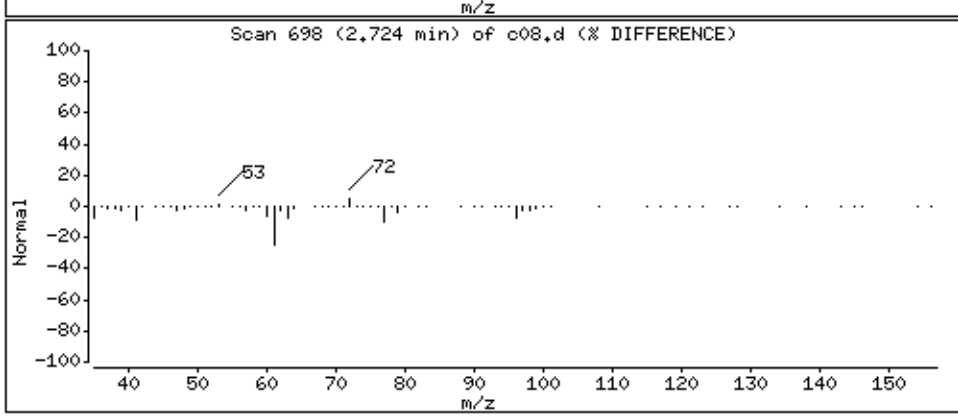
28 2-Butanone

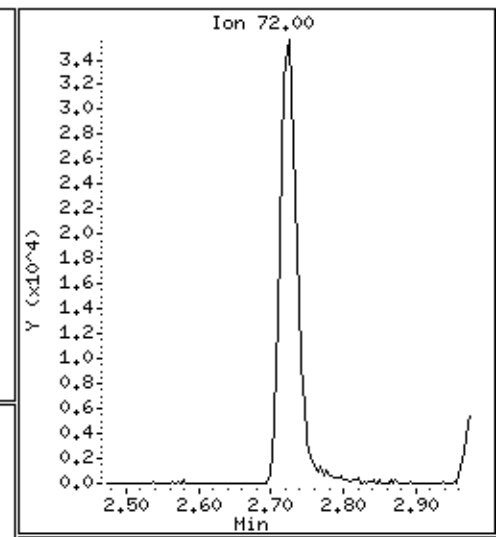
Concentration: 166 ppb

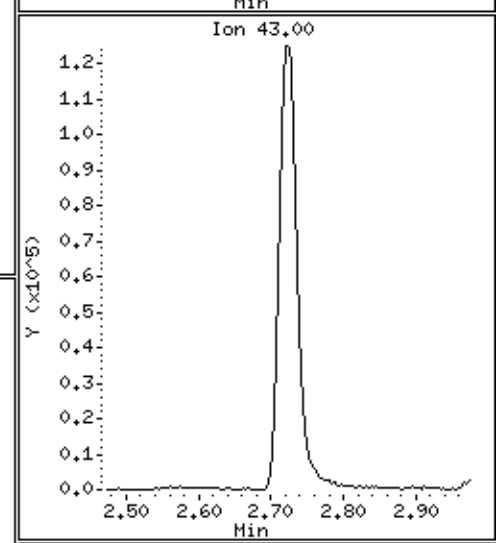


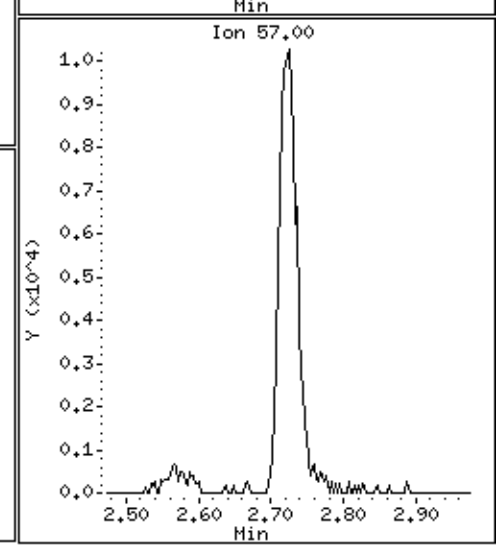












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

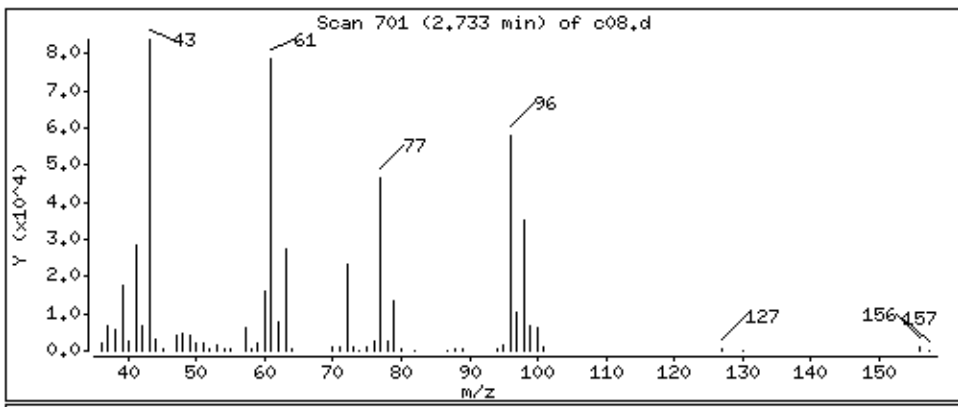
Operator: dae

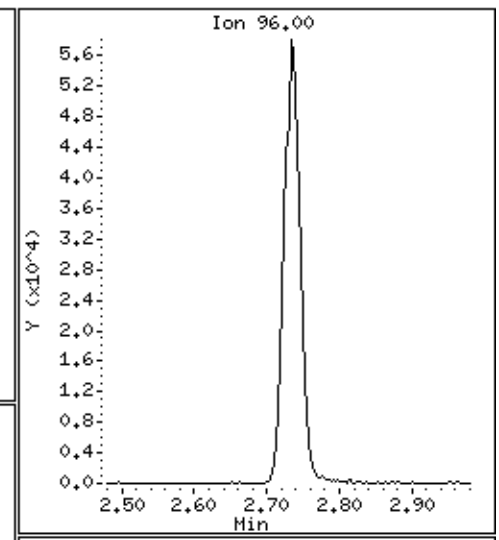
Column phase: DB-624

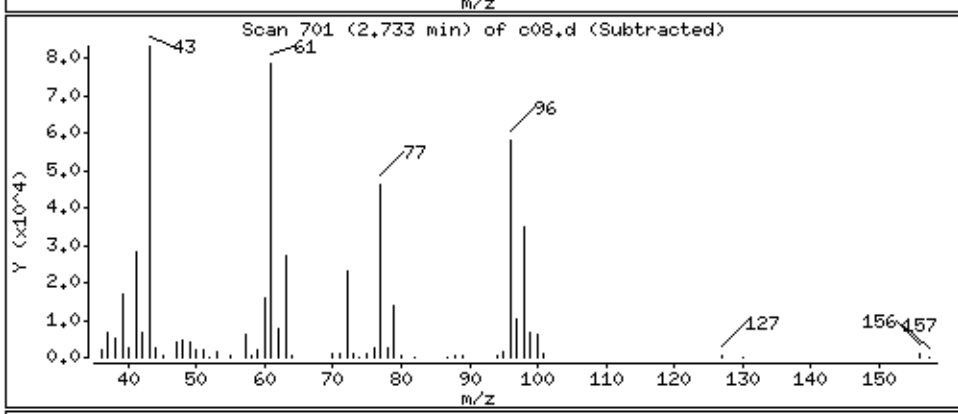
Column diameter: 0.18

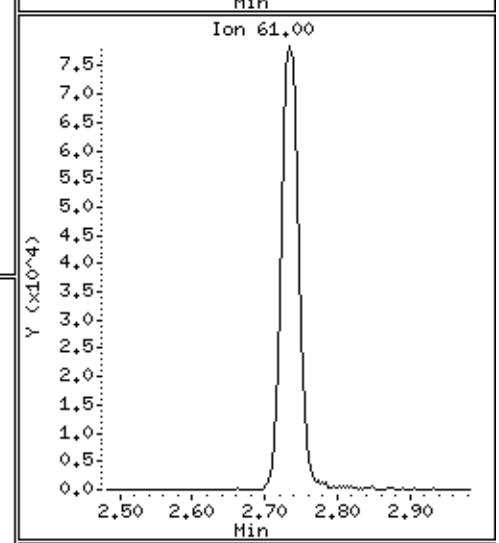
29 1,2-Dichloroethene (cis)

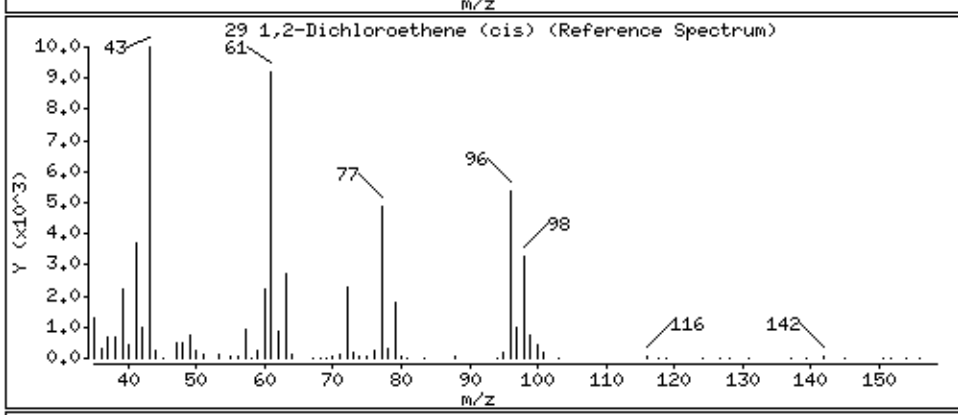
Concentration: 37.1 ppb

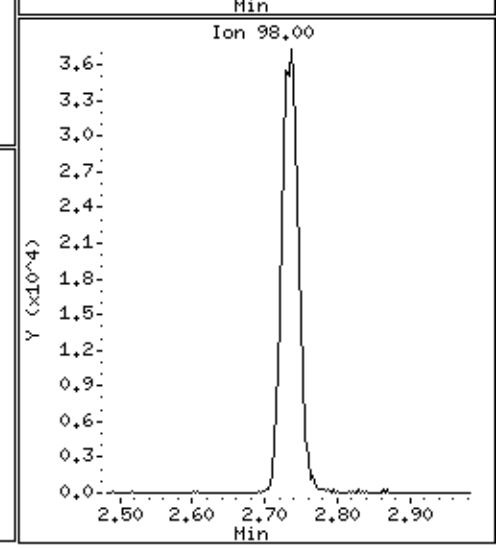


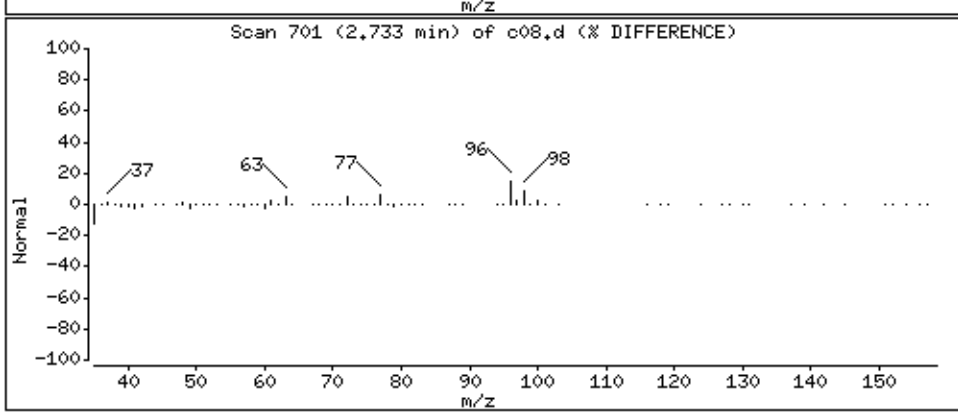












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

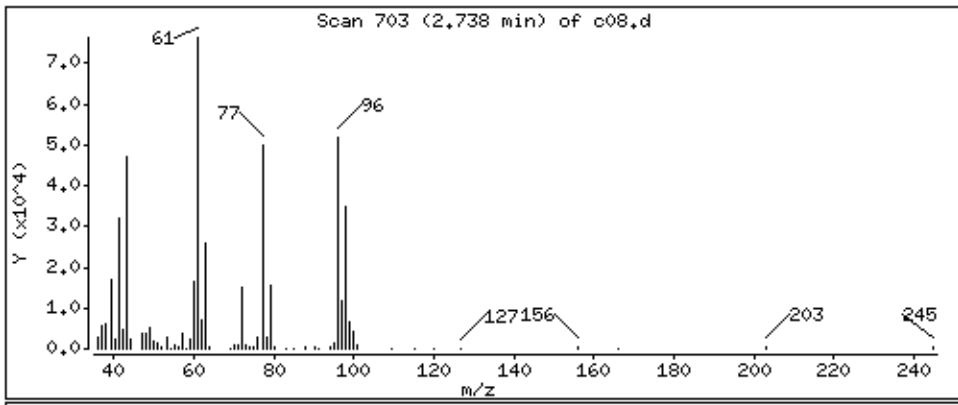
Operator: dae

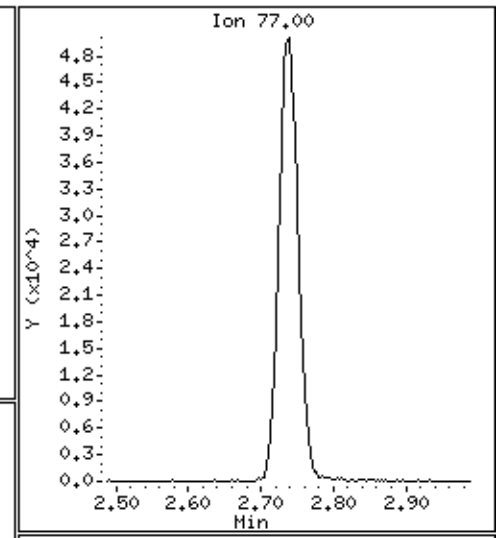
Column phase: DB-624

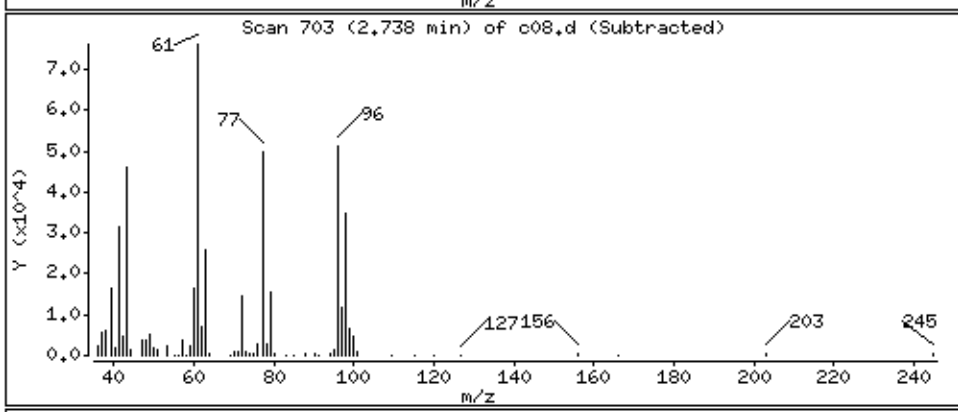
Column diameter: 0.18

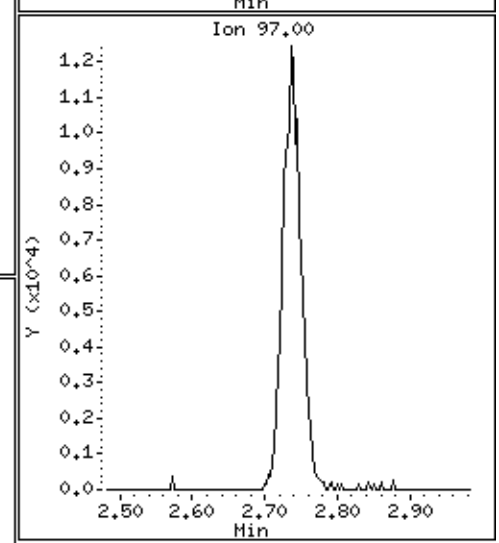
30 2,2-Dichloropropane

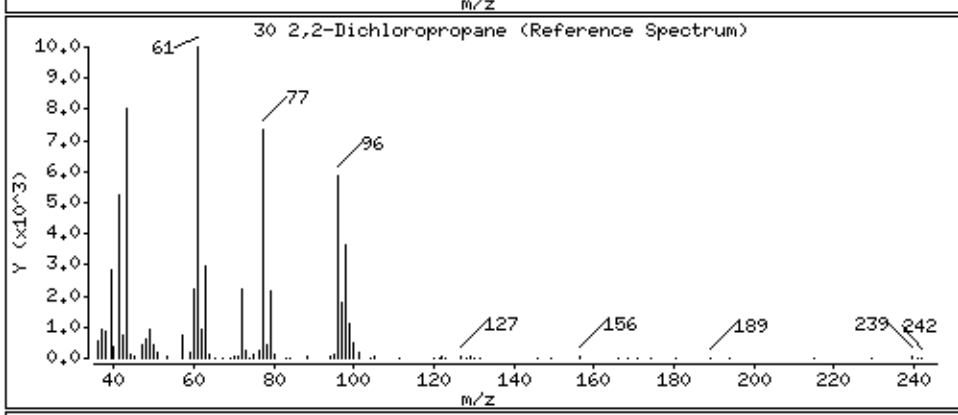
Concentration: 26.1 ppb

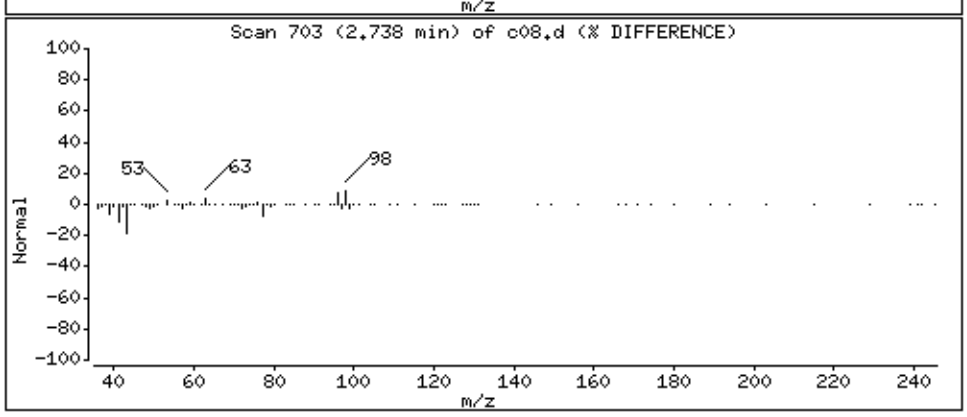












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

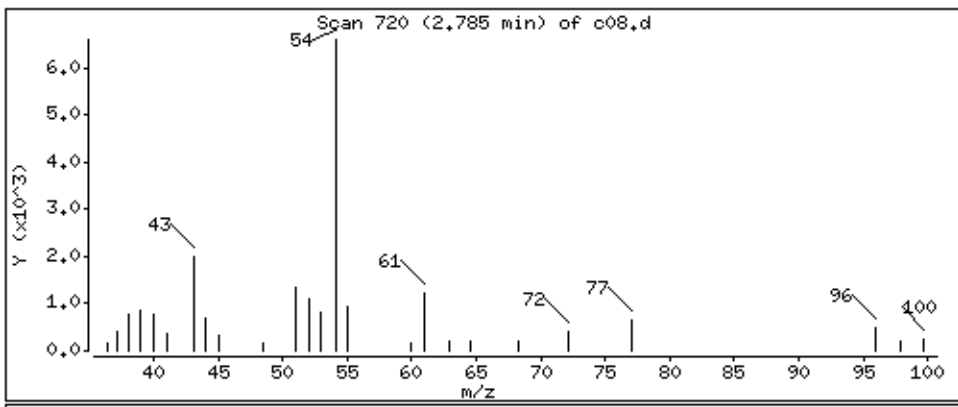
Operator: dae

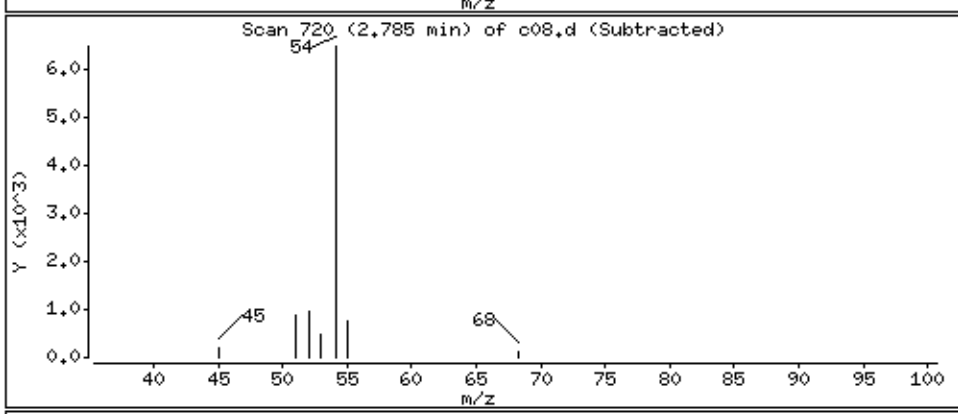
Column phase: DB-624

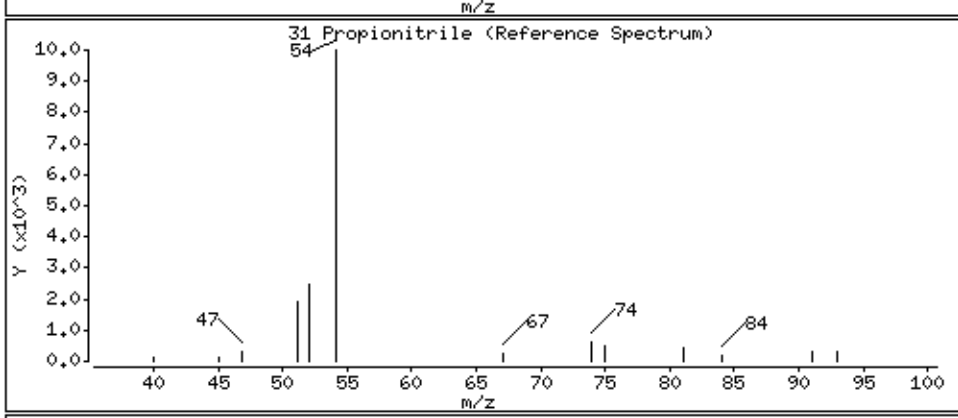
Column diameter: 0.18

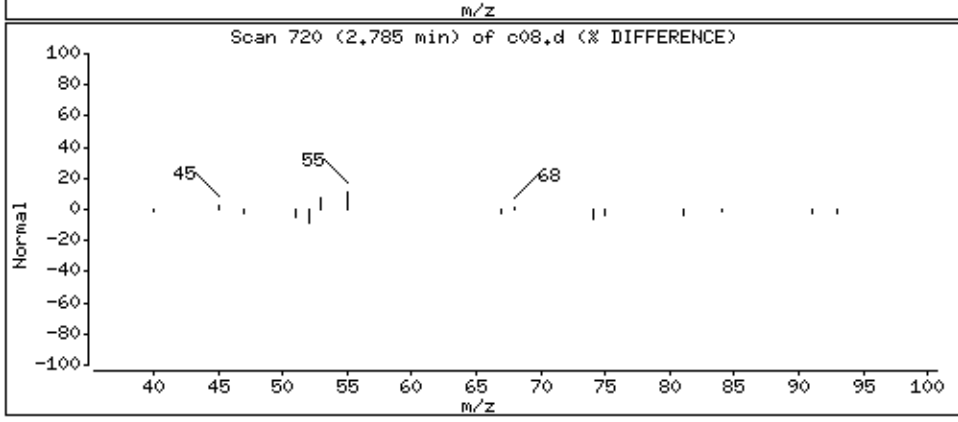
31 Propionitrile

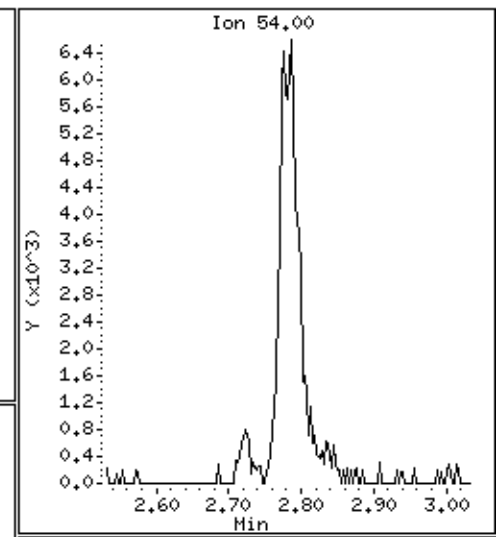
Concentration: 28.4 ppb

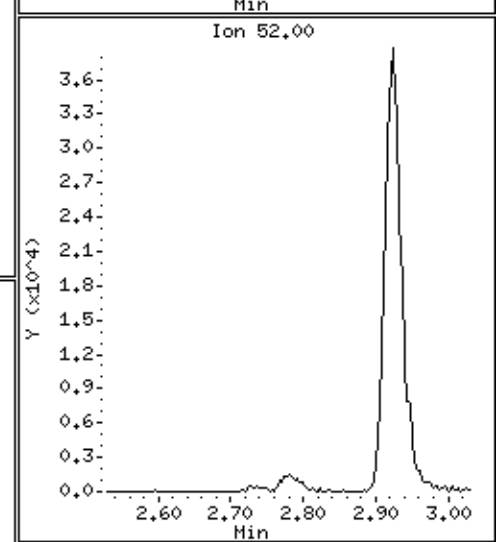


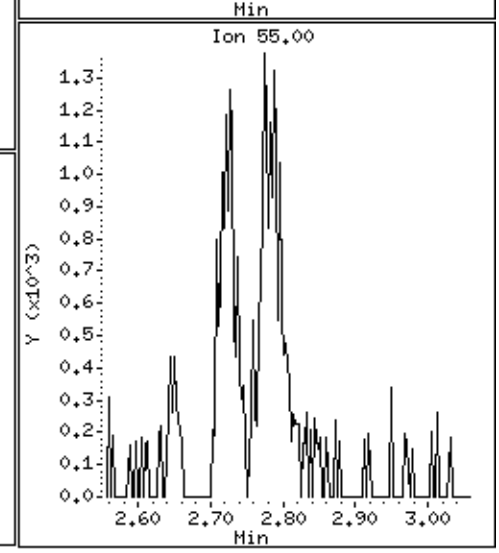












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

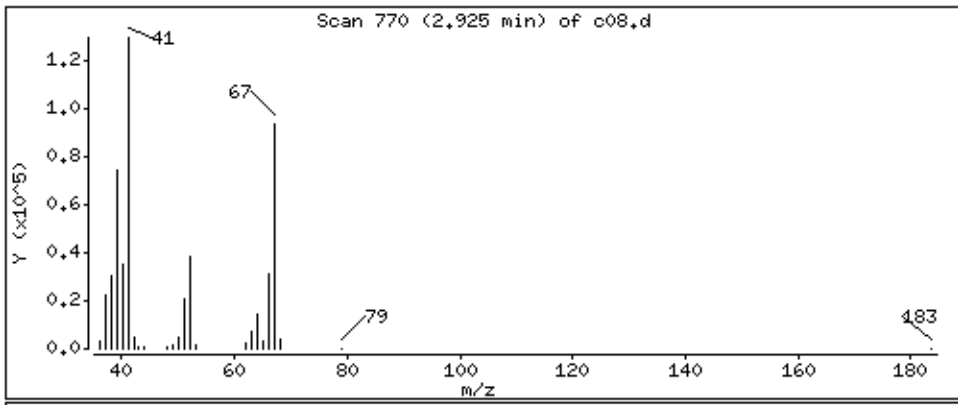
Operator: dae

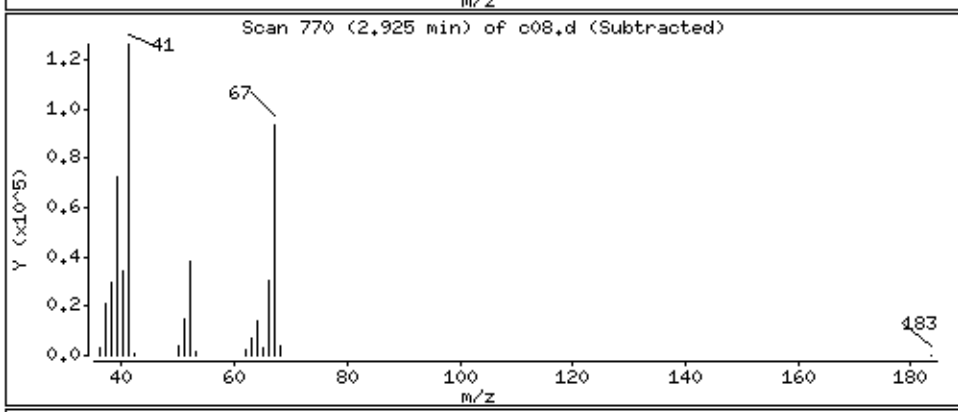
Column phase: DB-624

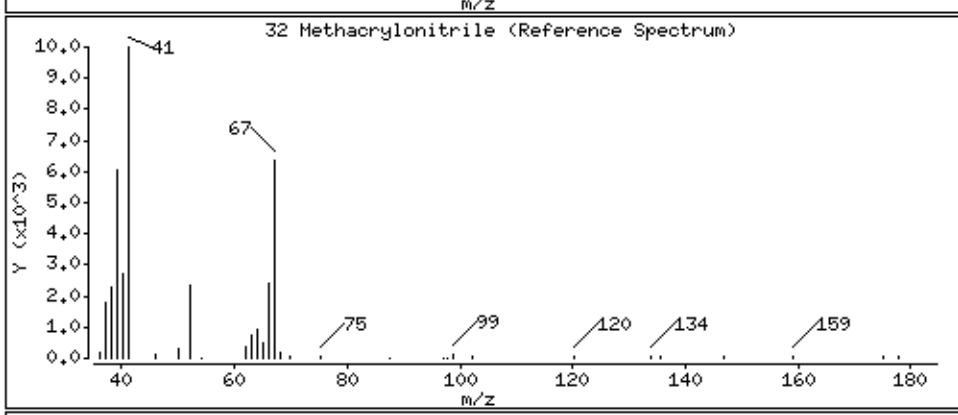
Column diameter: 0.18

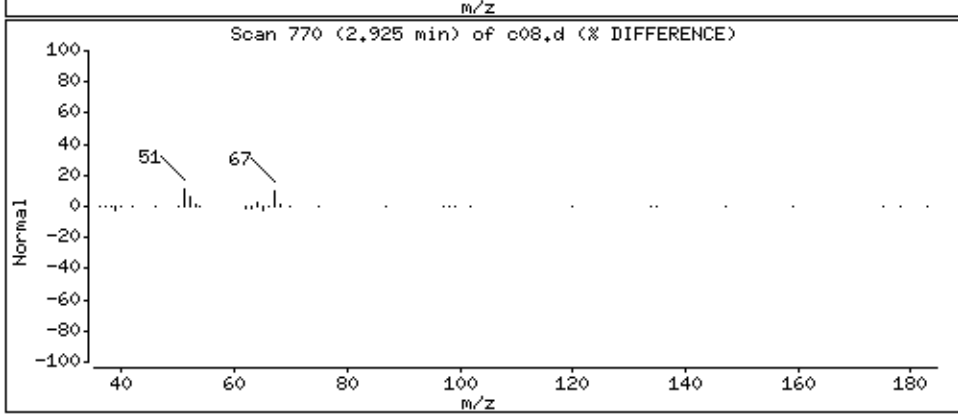
32 Methacrylonitrile

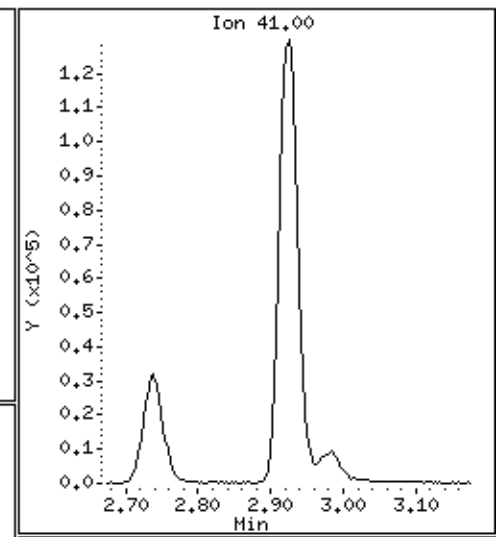
Concentration: 147 ppb

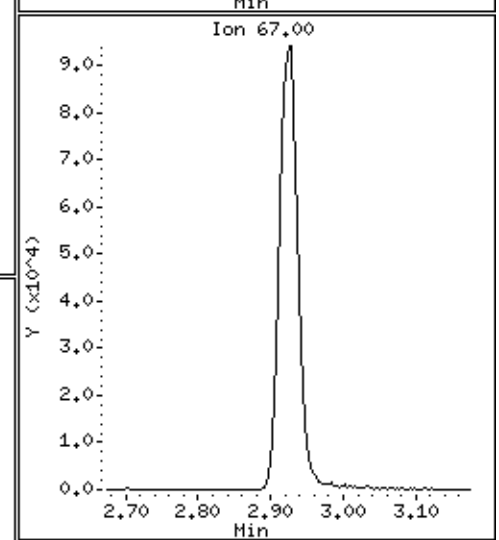


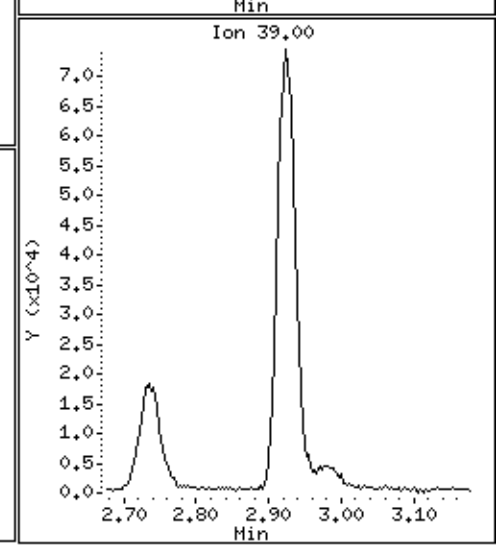












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

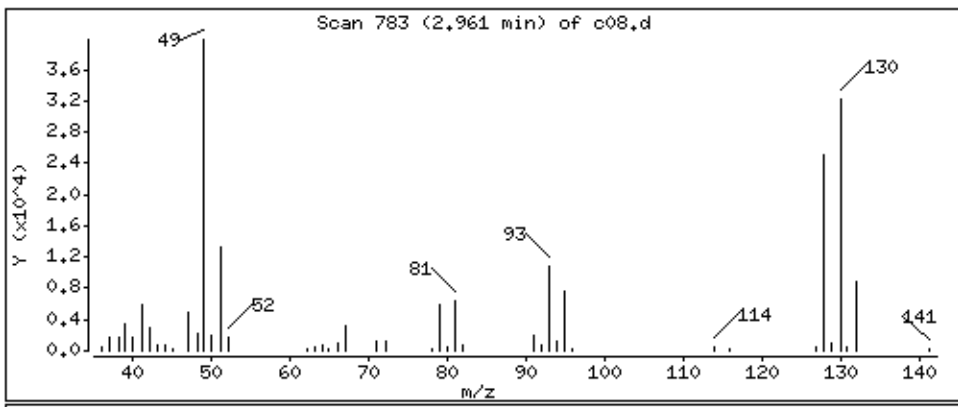
Operator: dae

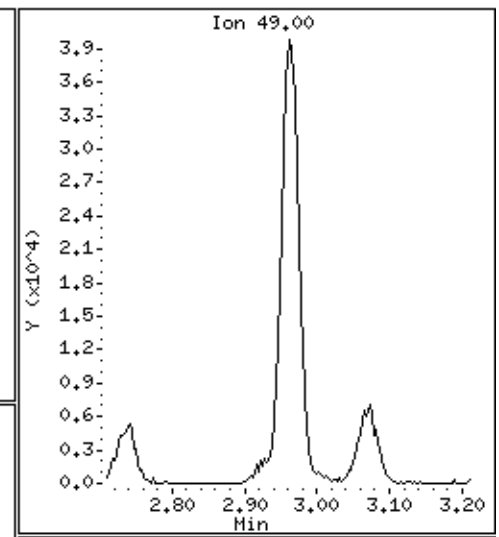
Column phase: DB-624

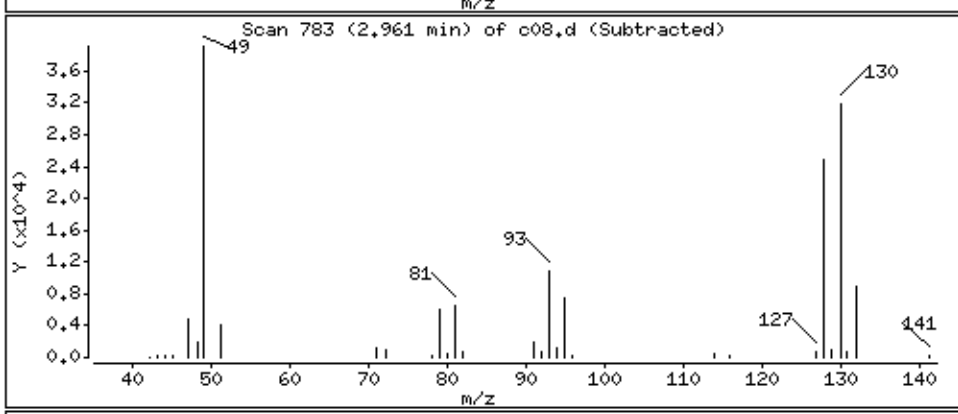
Column diameter: 0.18

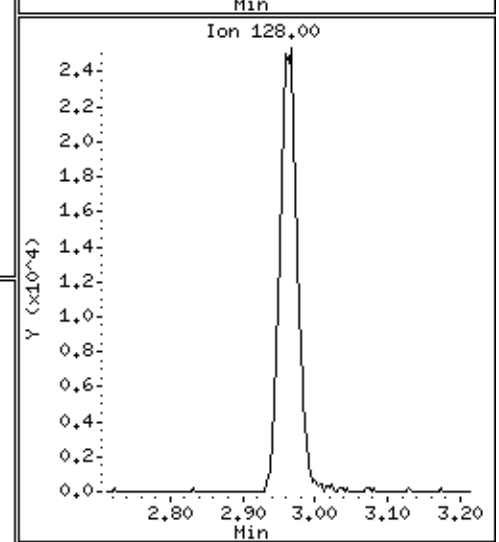
33 Bromochloromethane

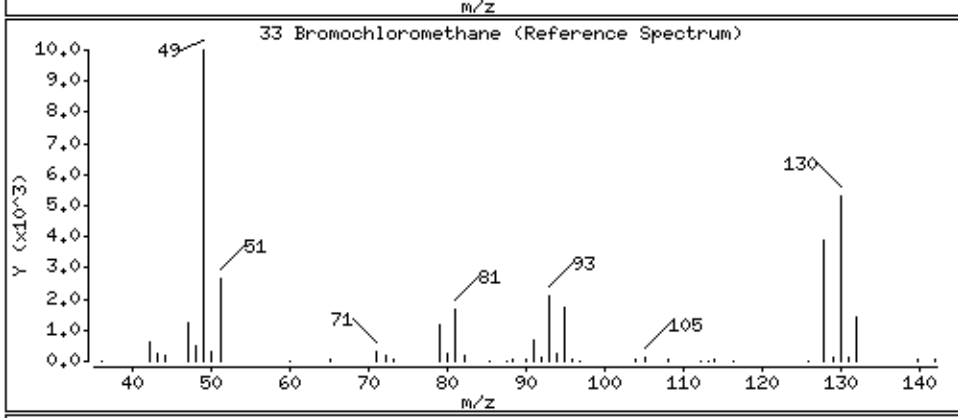
Concentration: 36.6 ppb

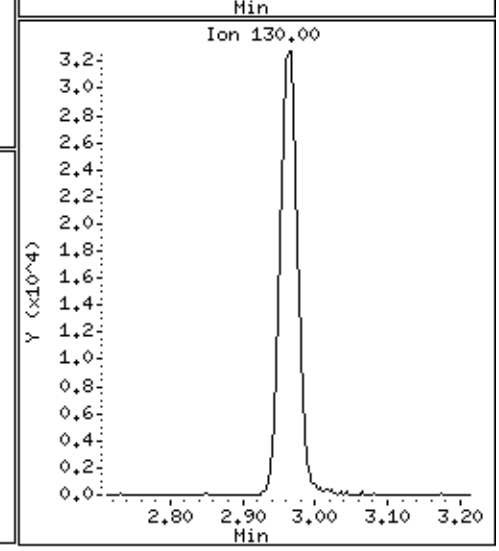


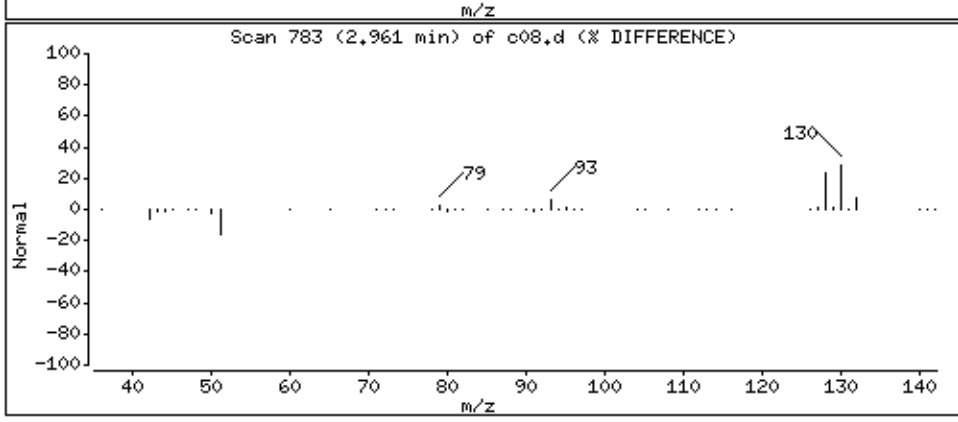












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

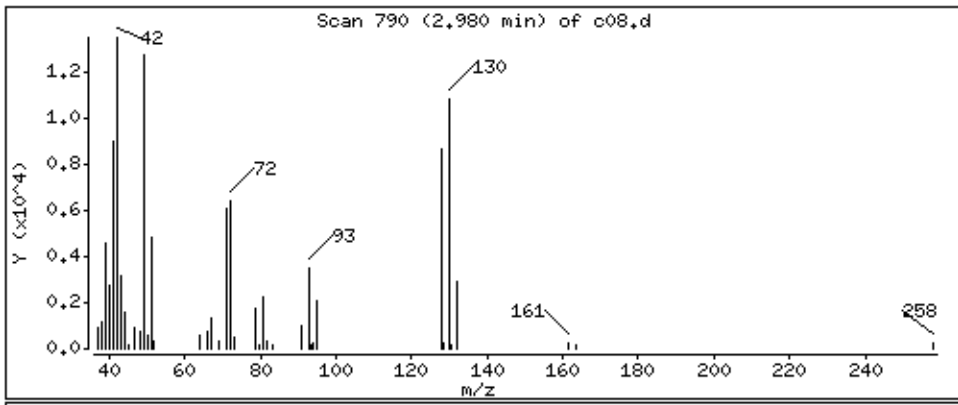
Operator: dae

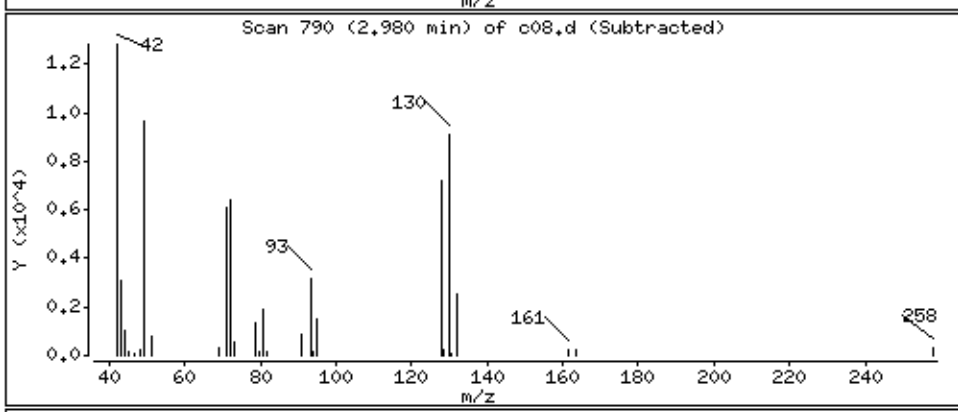
Column phase: DB-624

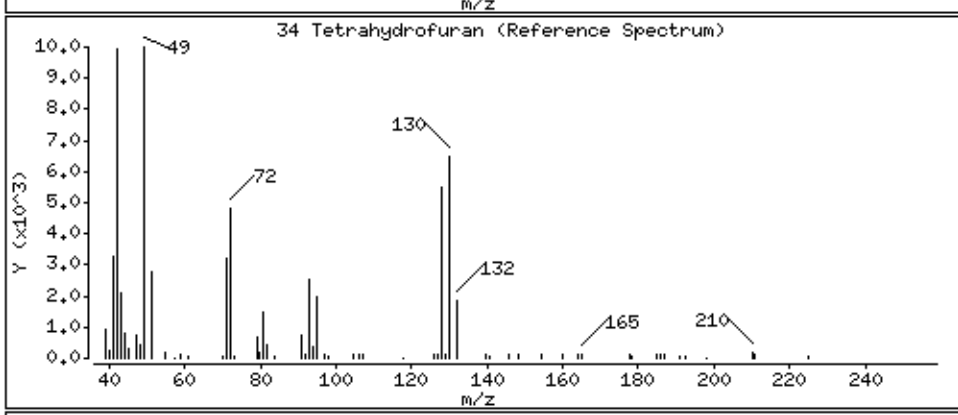
Column diameter: 0.18

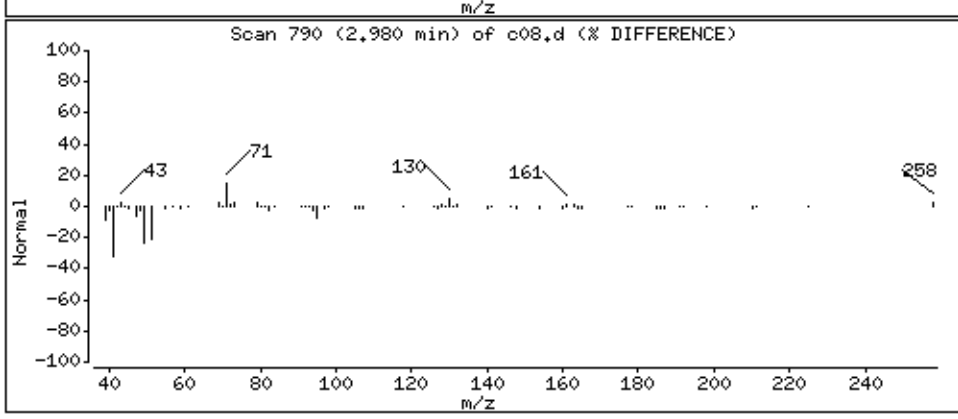
34 Tetrahydrofuran

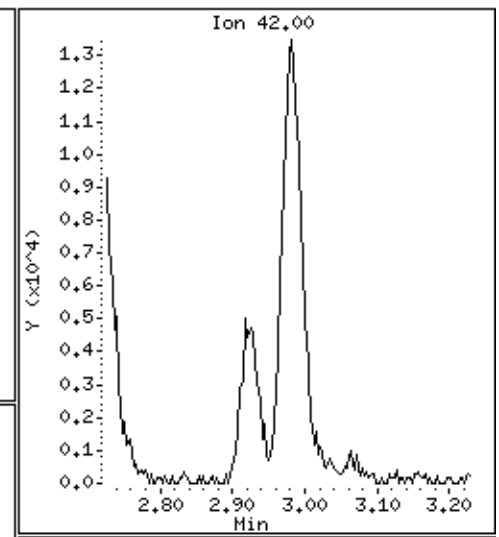
Concentration: 38.1 ppb

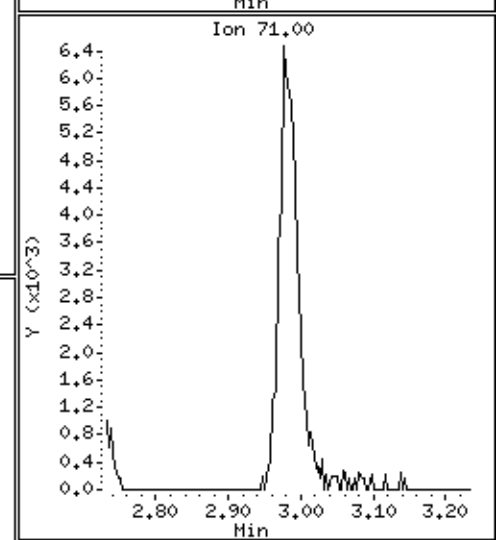


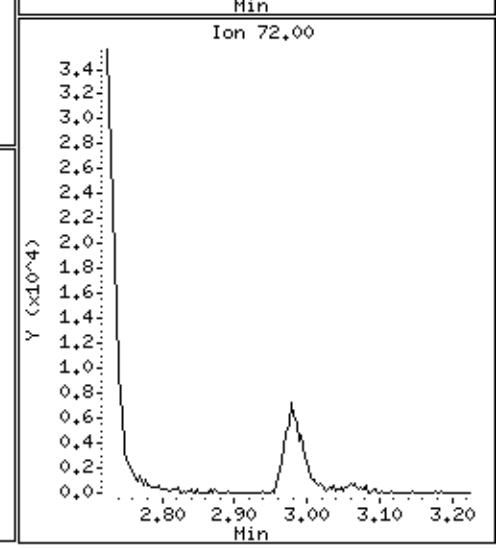












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

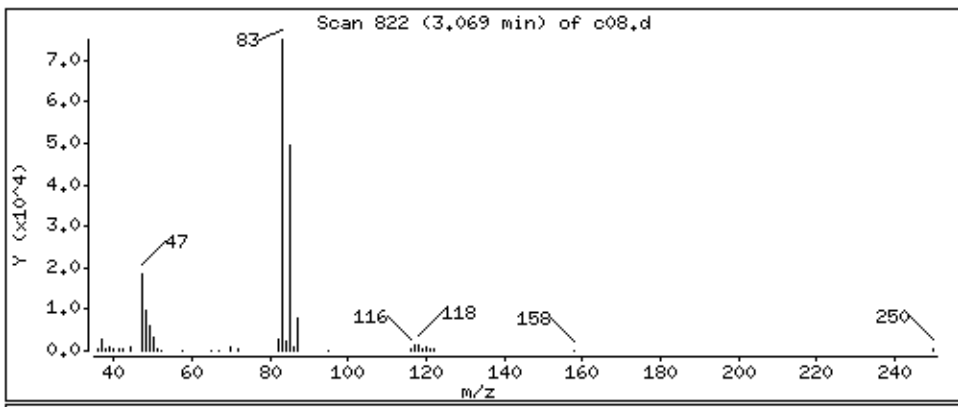
Operator: dae

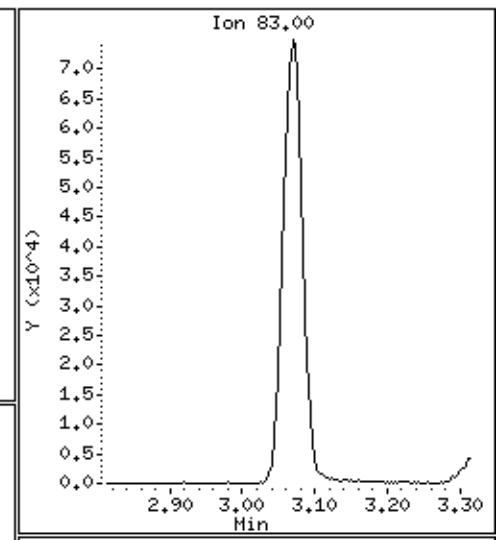
Column phase: DB-624

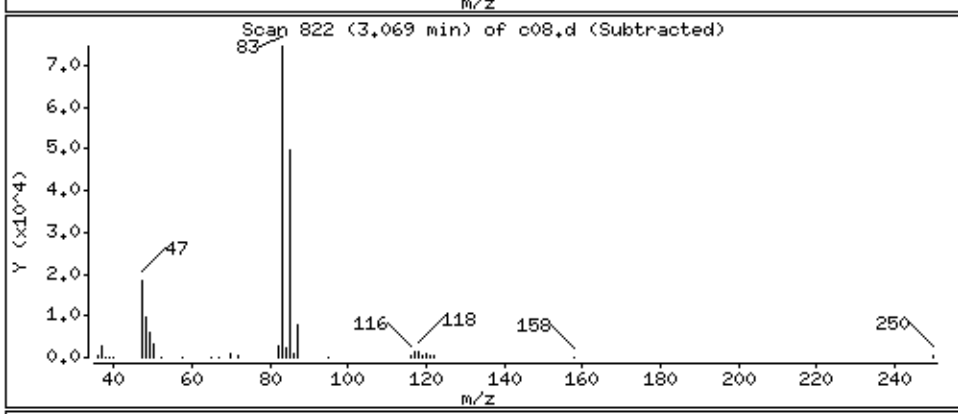
Column diameter: 0.18

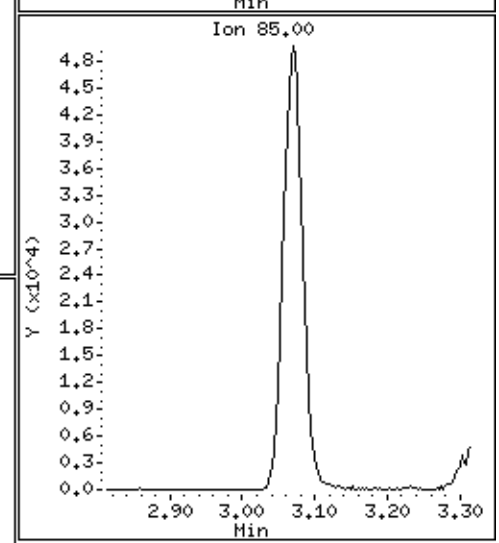
35 Chloroform

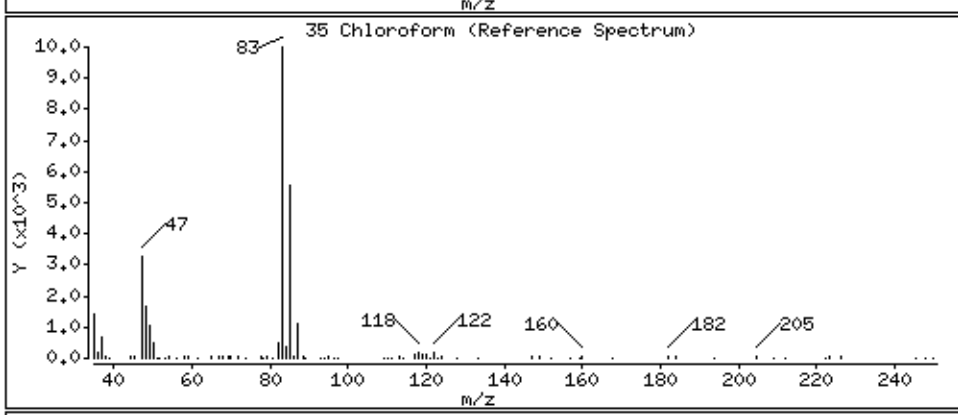
Concentration: 37.2 ppb

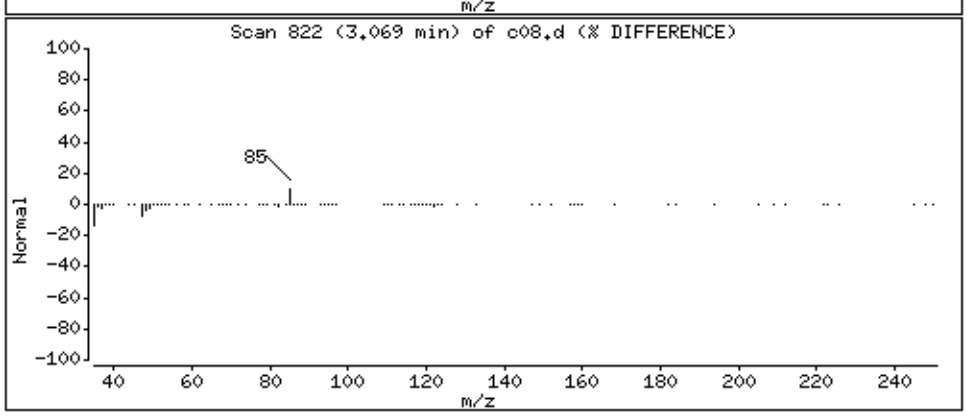












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

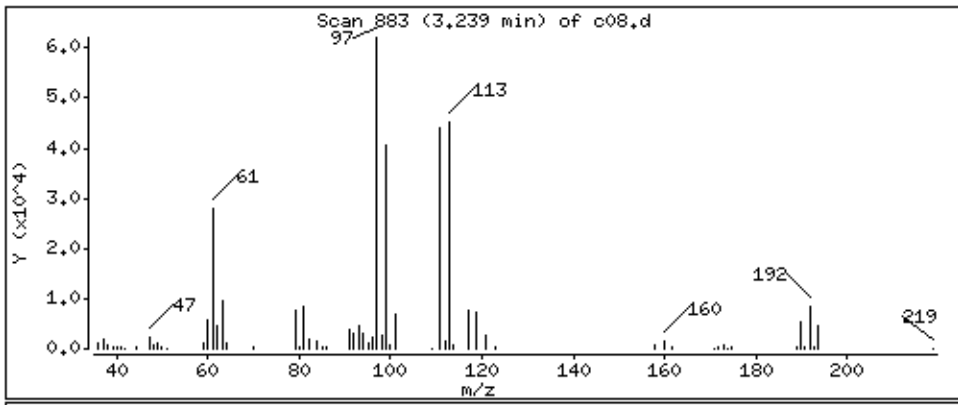
Operator: dae

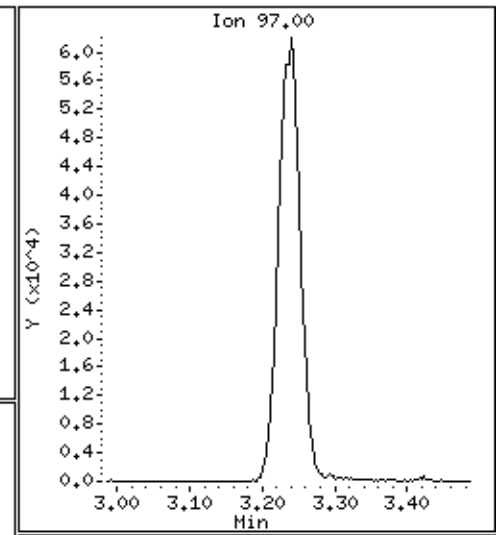
Column phase: DB-624

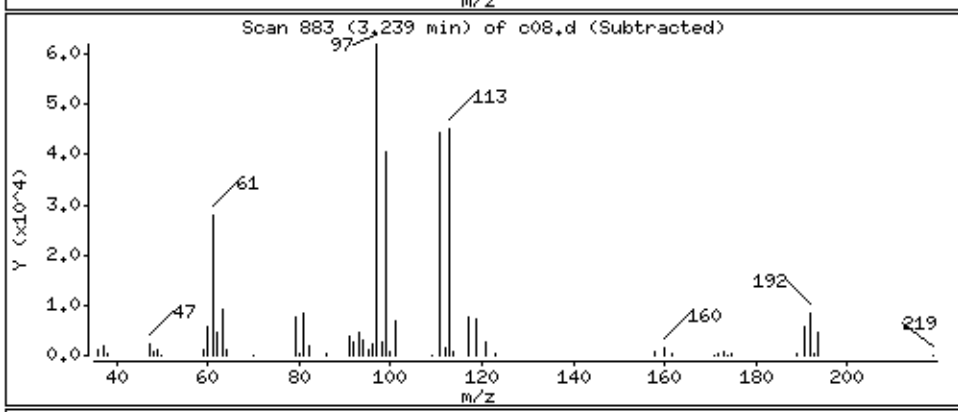
Column diameter: 0.18

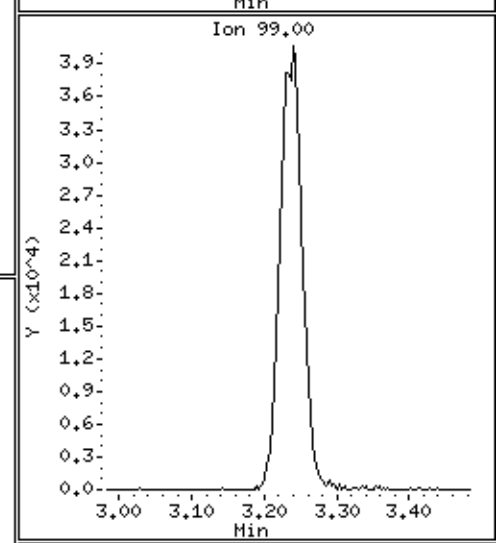
37 1,1,1-Trichloroethane

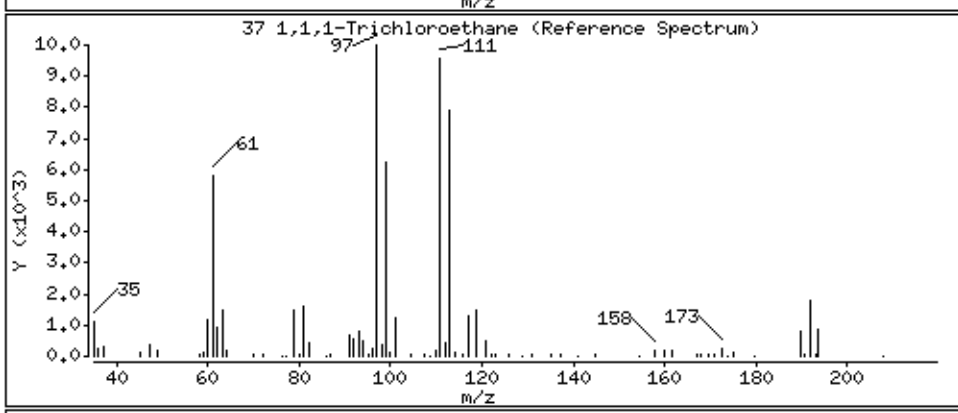
Concentration: 34.6 ppb

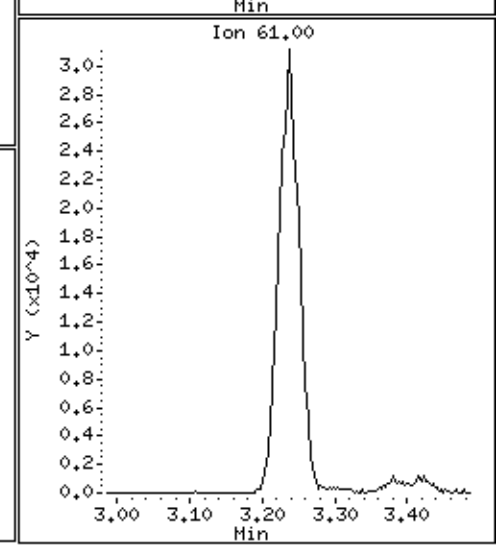


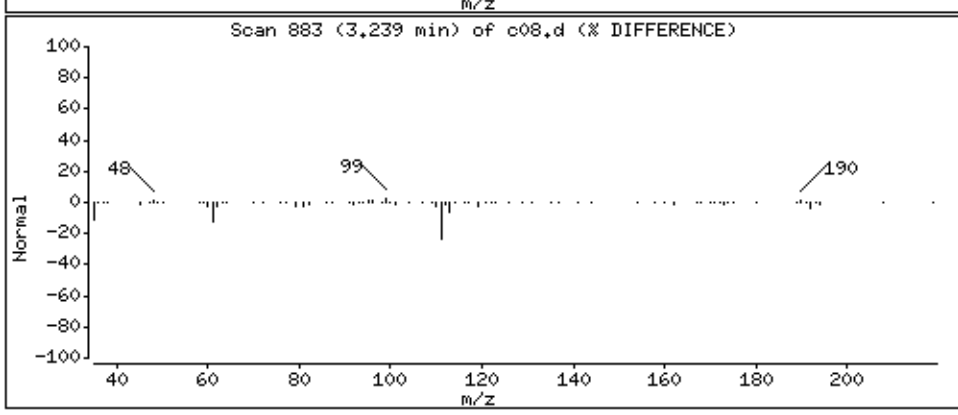












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

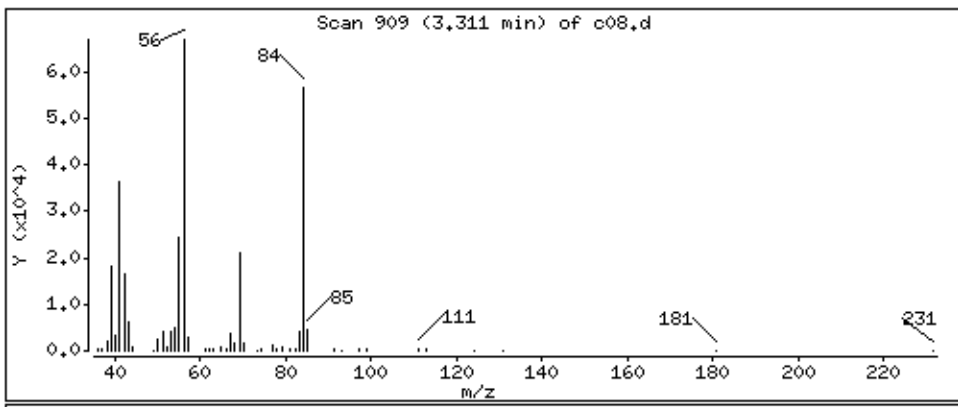
Operator: dae

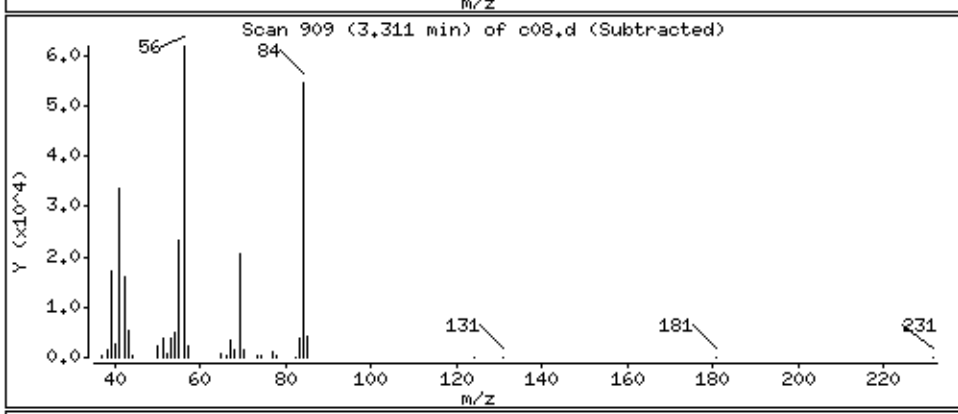
Column phase: DB-624

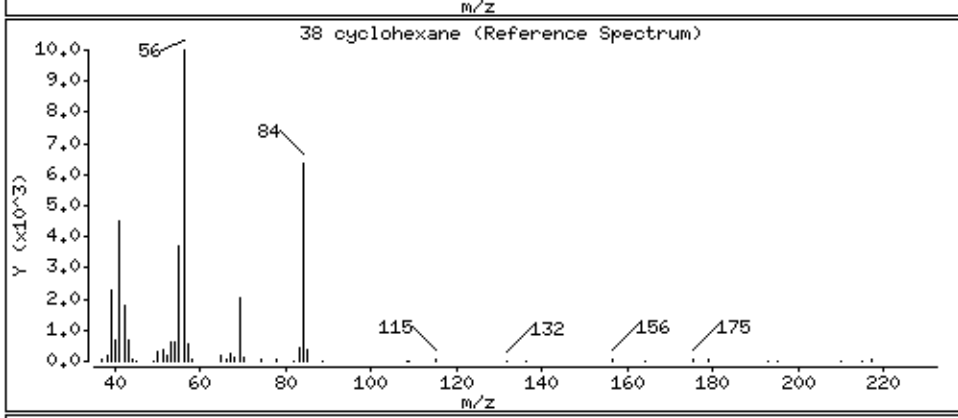
Column diameter: 0.18

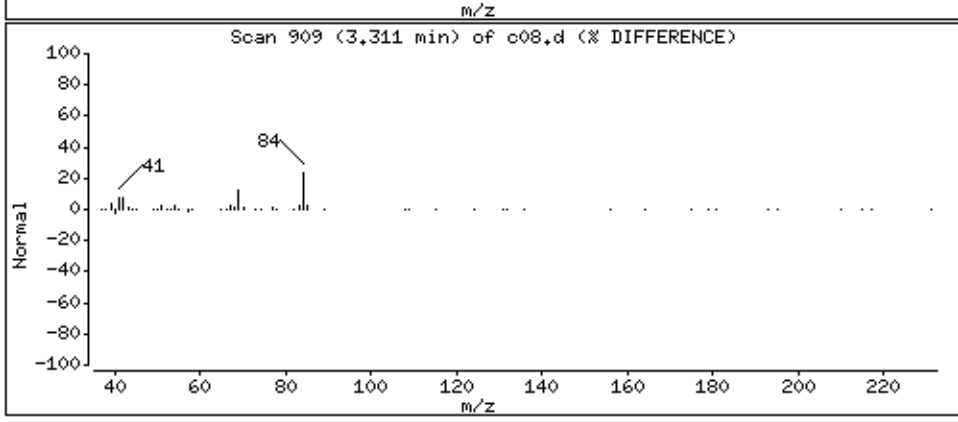
38 cyclohexane

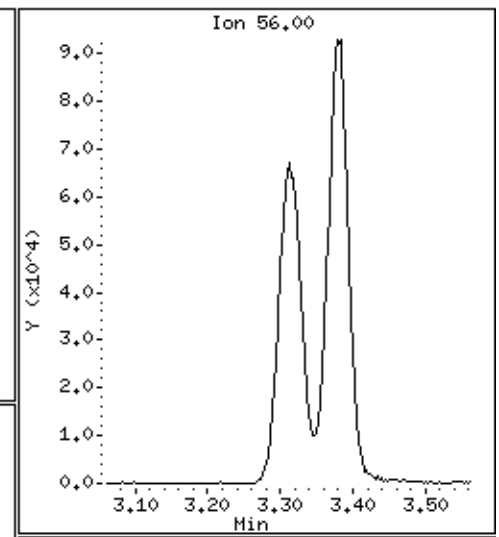
Concentration: 37.2 ppb

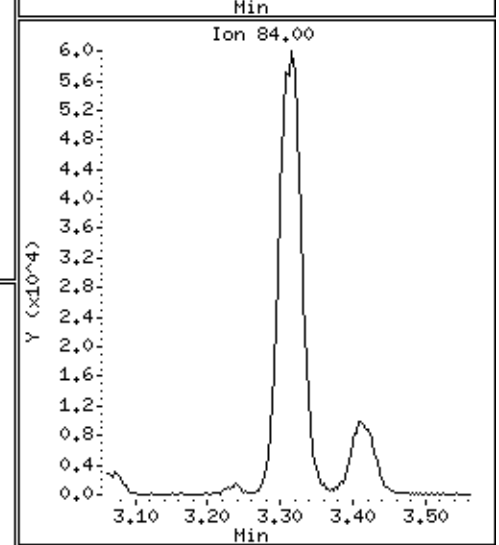


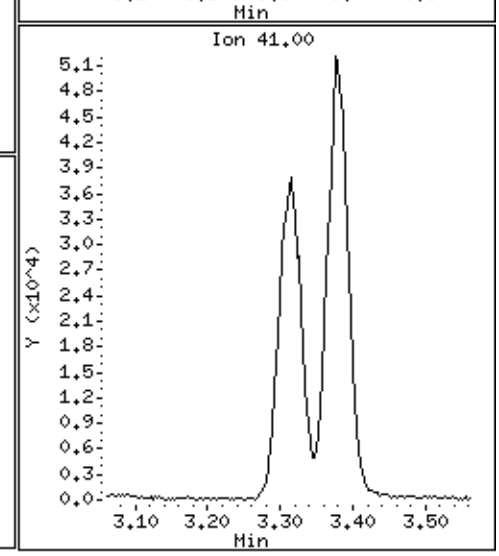












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

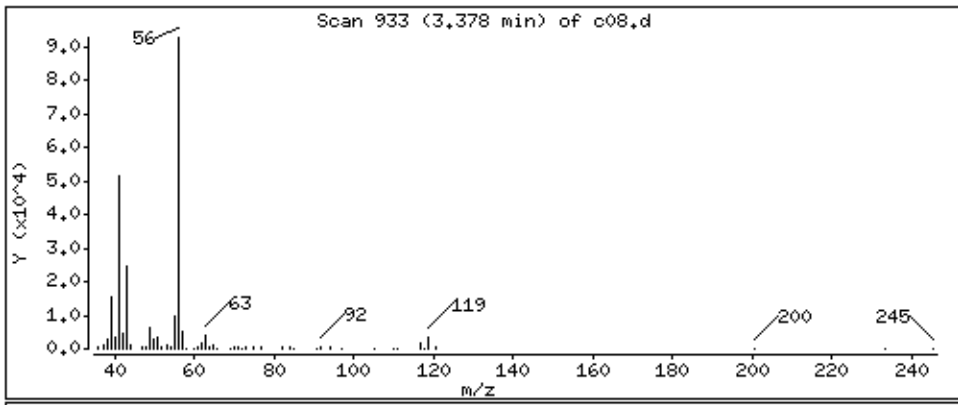
Operator: dae

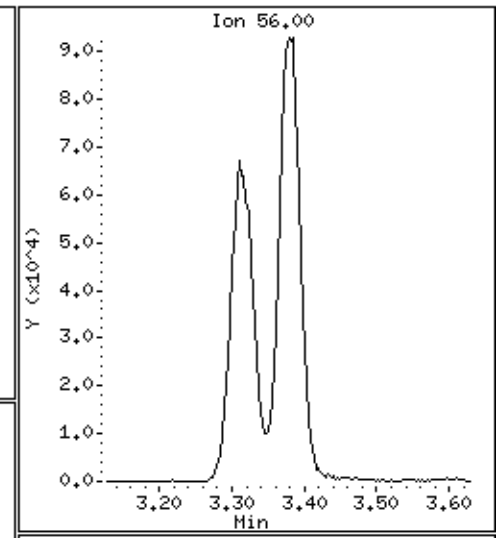
Column phase: DB-624

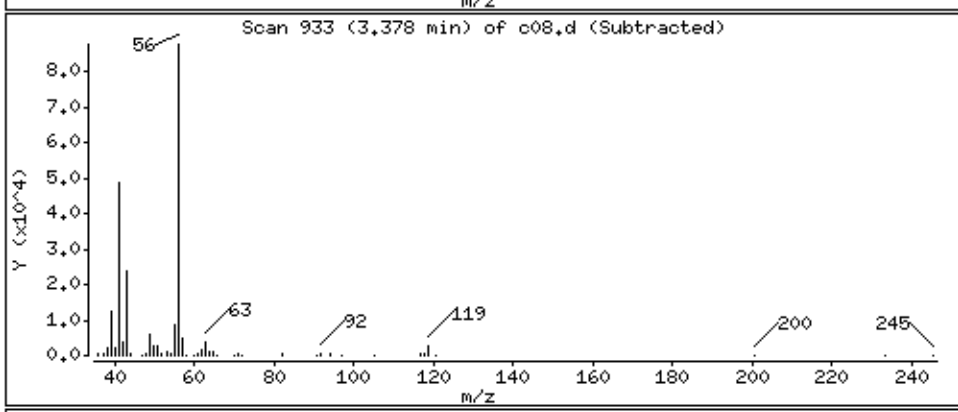
Column diameter: 0.18

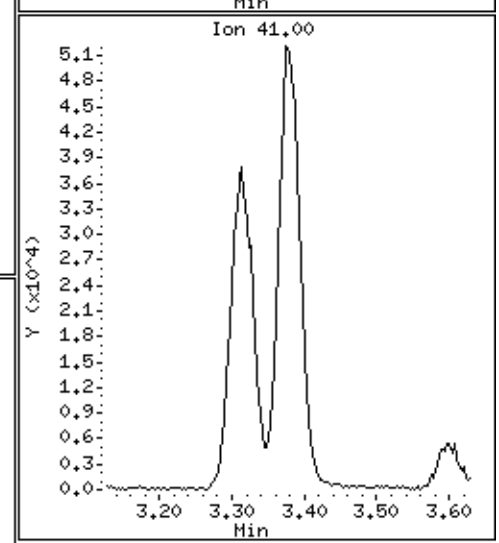
150 n-butyl chloride

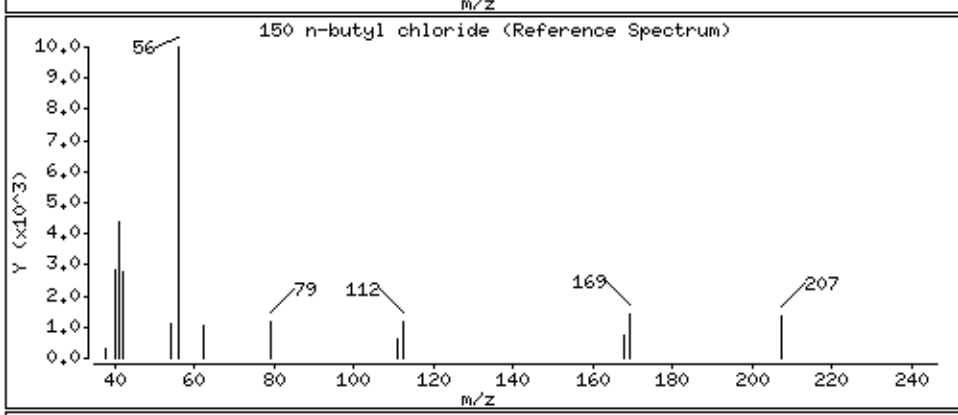
Concentration: 38.9 ppb

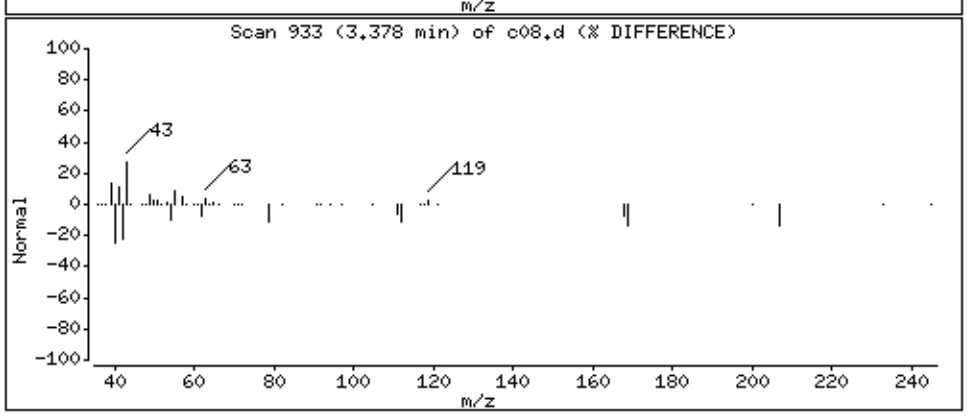












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

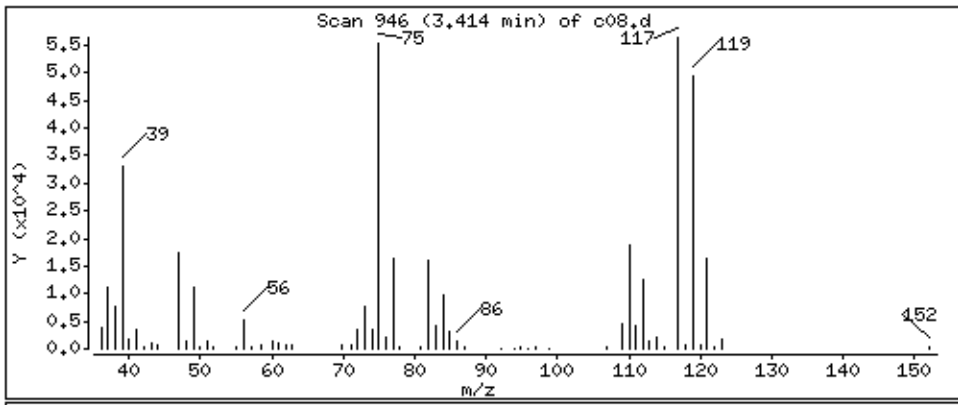
Operator: dae

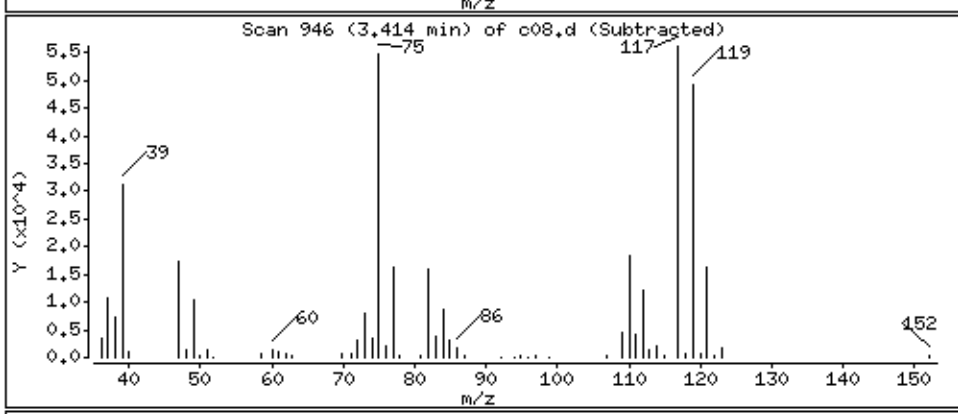
Column phase: DB-624

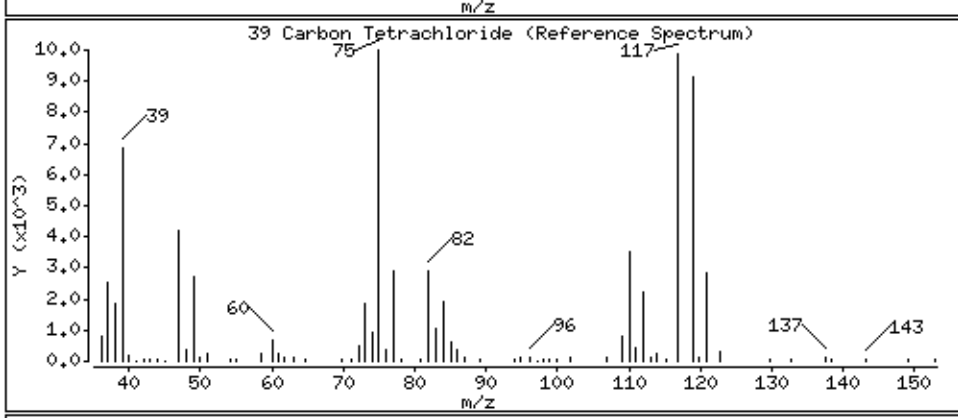
Column diameter: 0.18

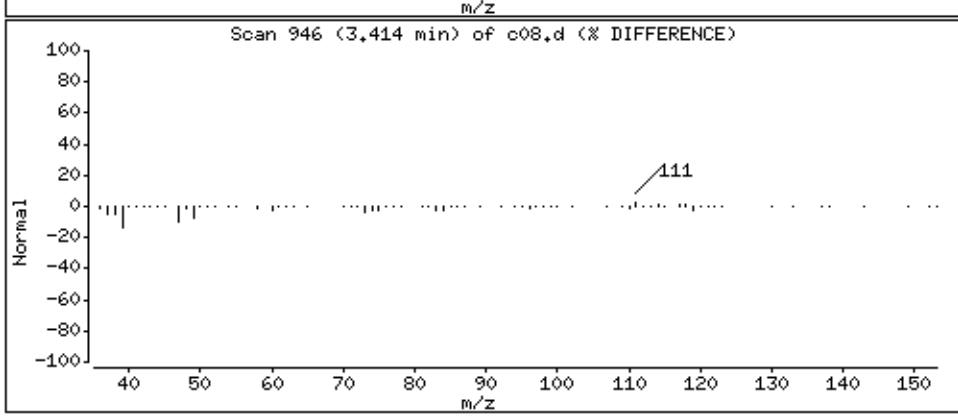
39 Carbon Tetrachloride

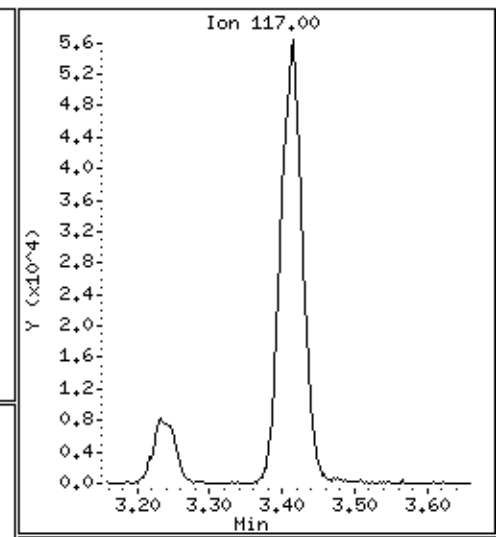
Concentration: 36.0 ppb

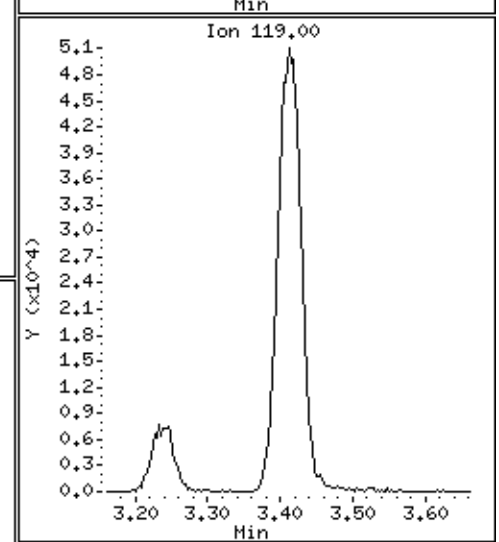


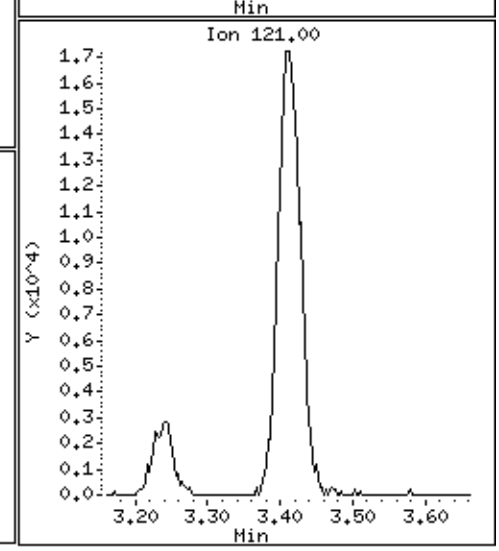












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

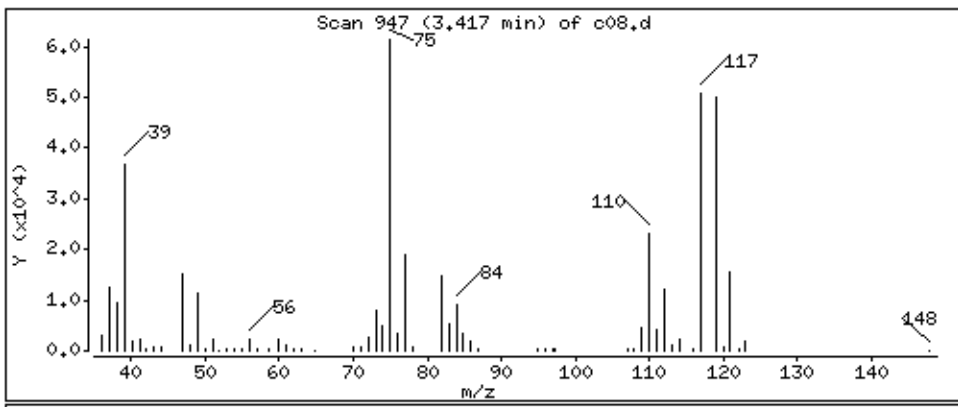
Operator: dae

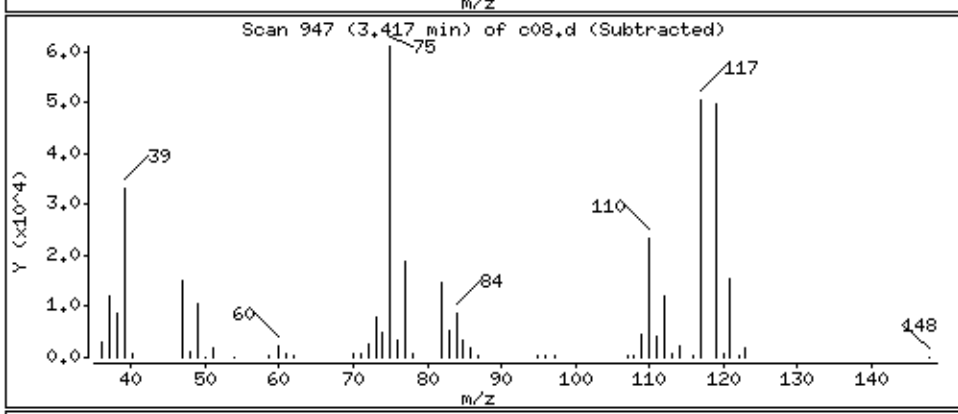
Column phase: DB-624

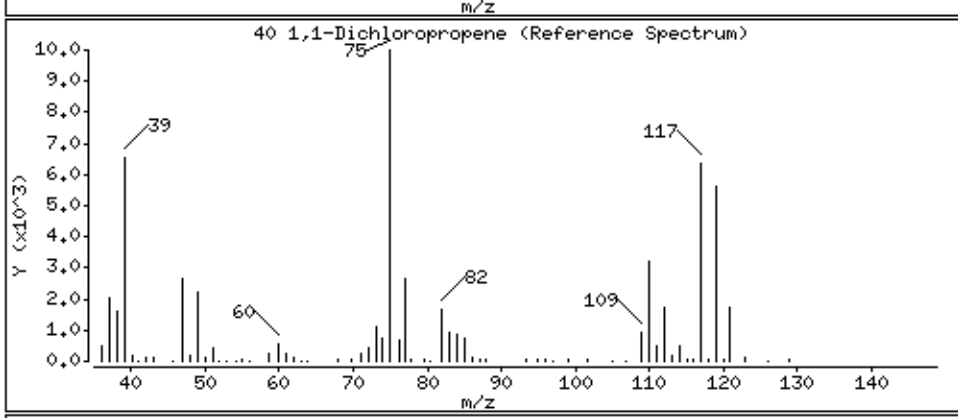
Column diameter: 0.18

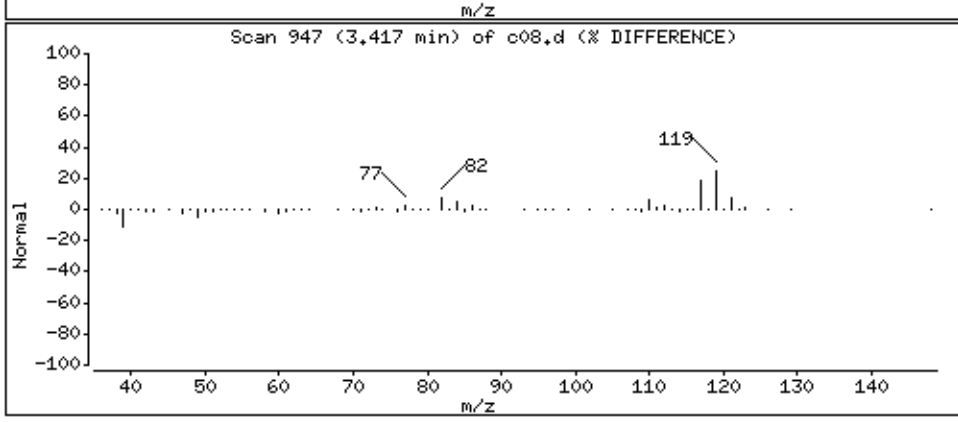
40 1,1-Dichloropropene

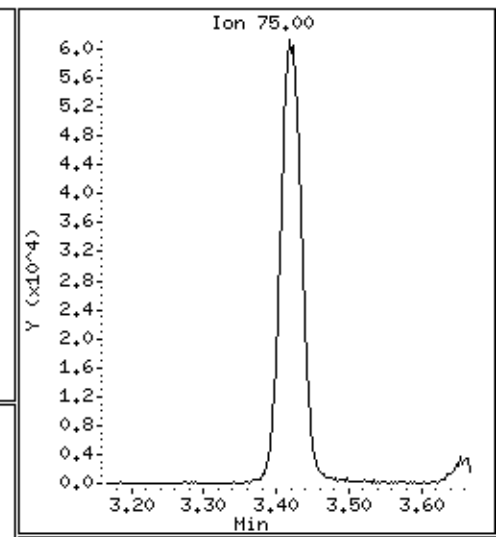
Concentration: 39.2 ppb

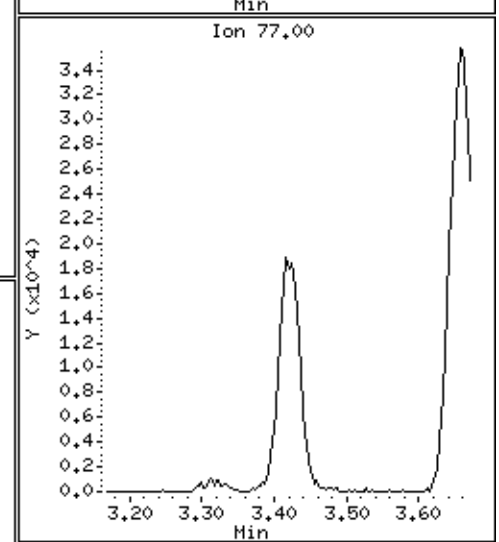


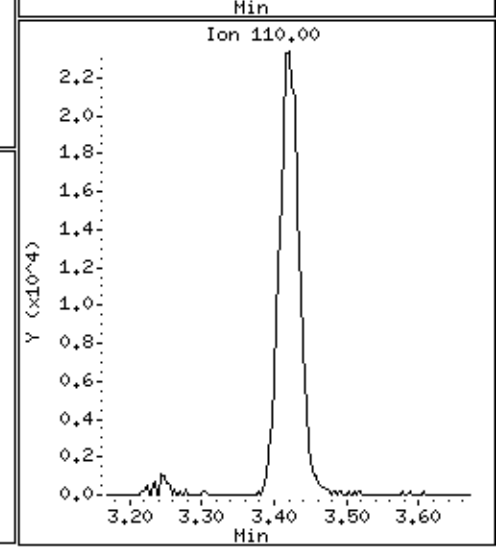












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

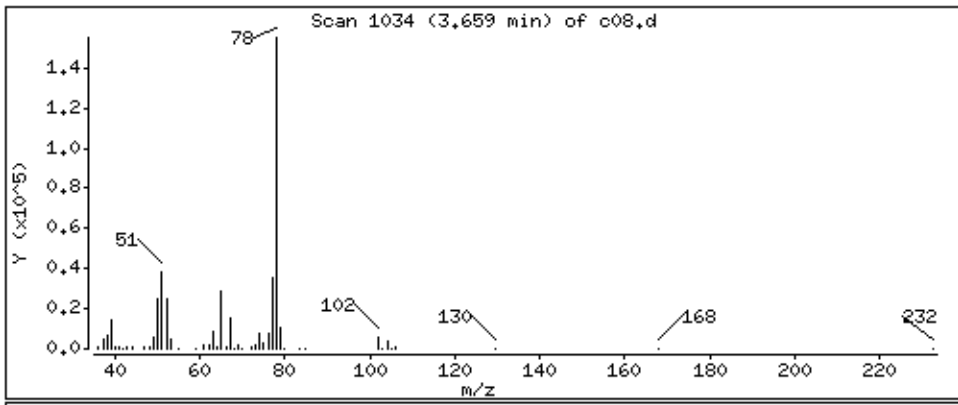
Operator: dae

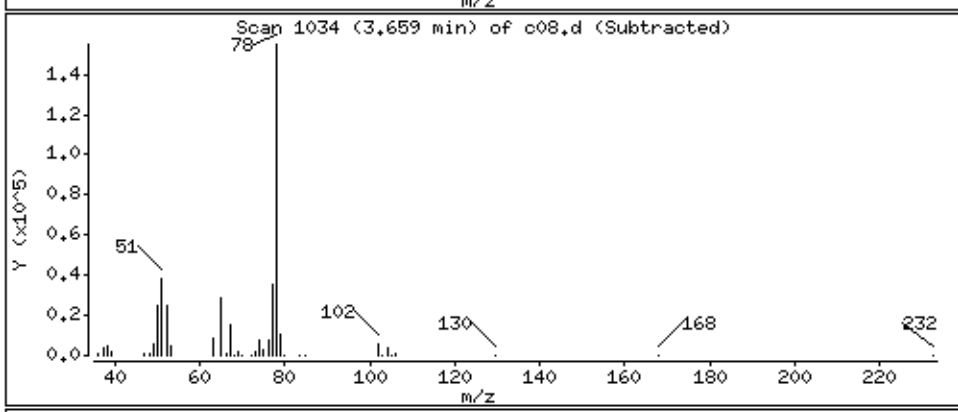
Column phase: DB-624

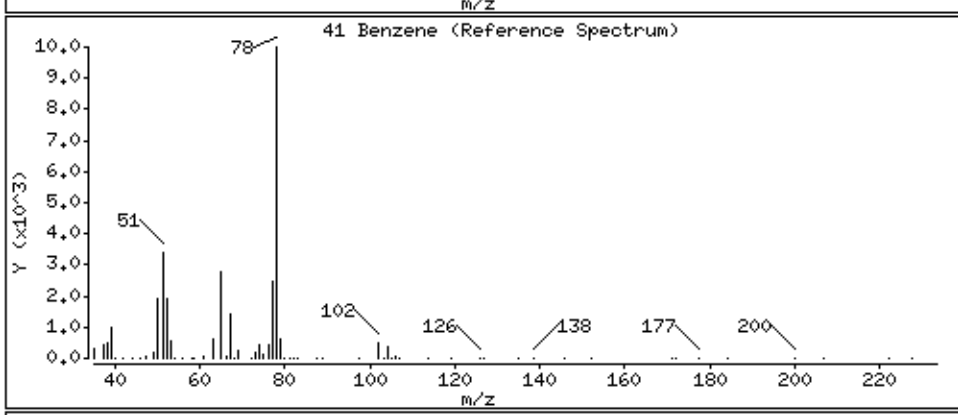
Column diameter: 0.18

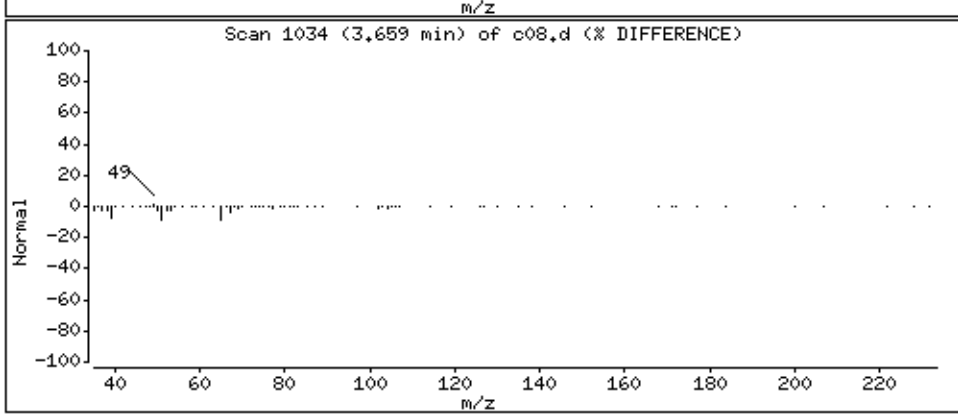
41 Benzene

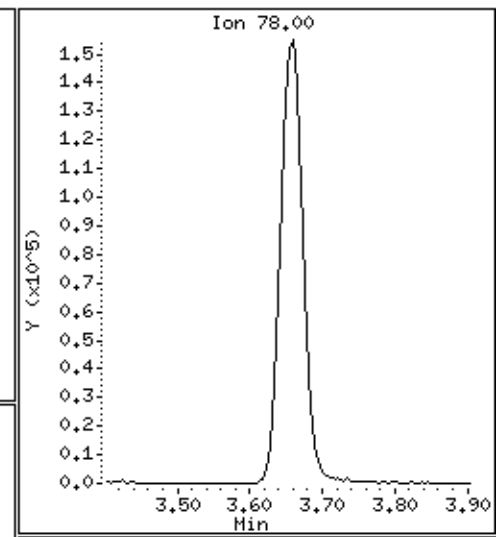
Concentration: 37.1 ppb

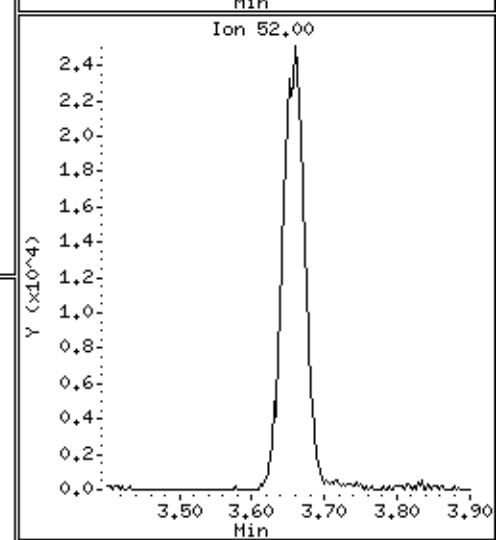


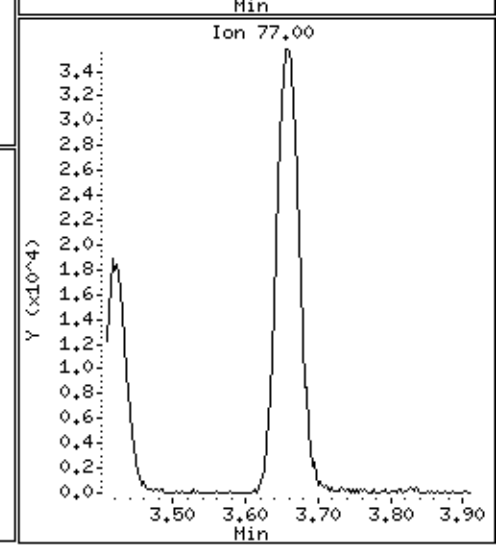












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

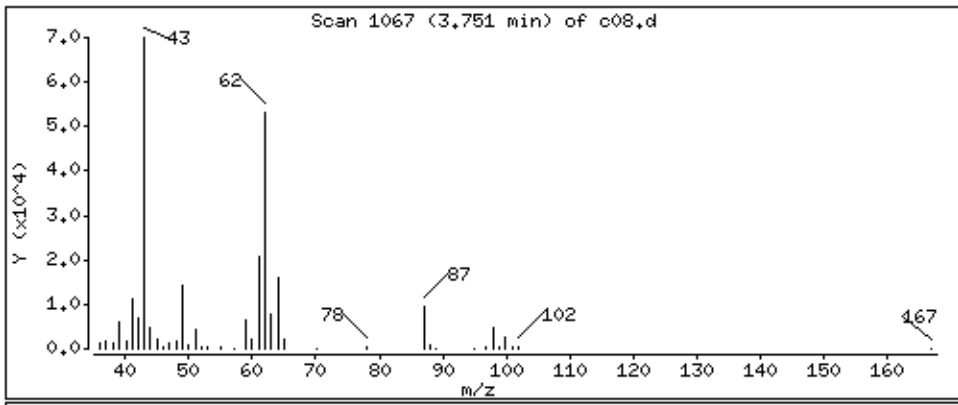
Operator: dae

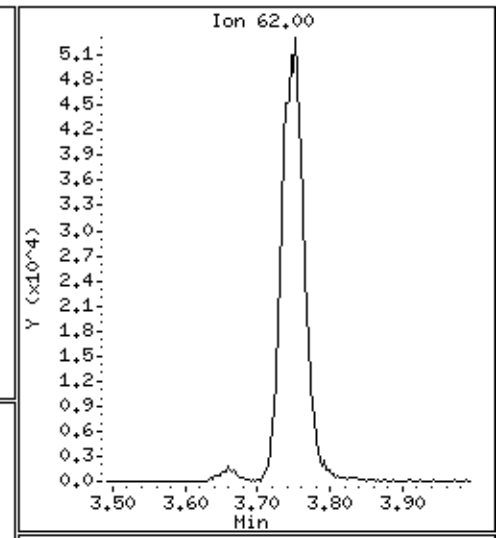
Column phase: DB-624

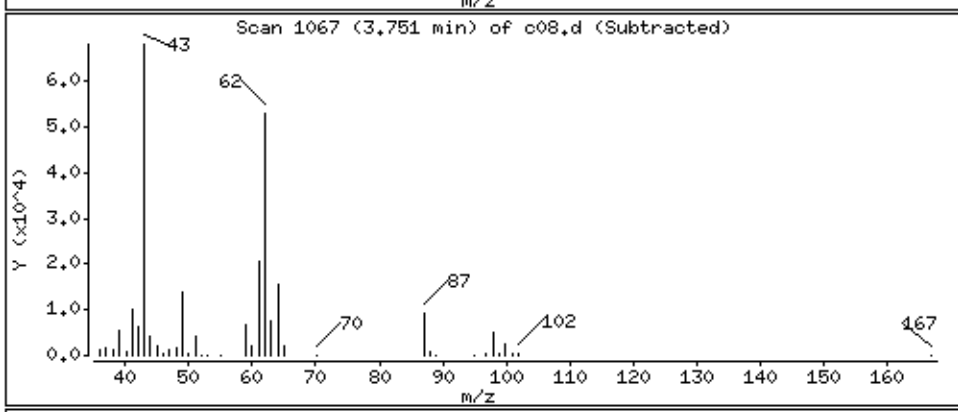
Column diameter: 0.18

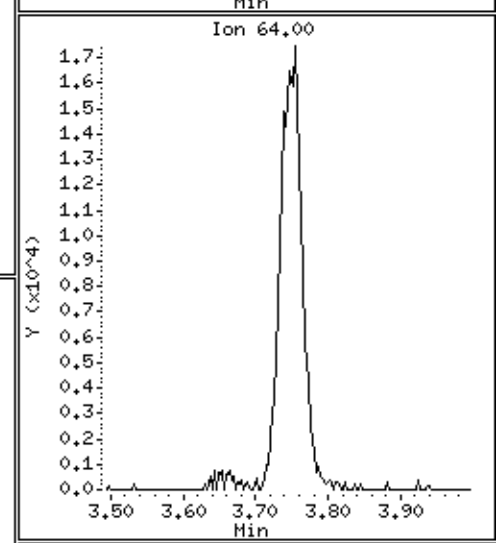
42 1,2-Dichloroethane

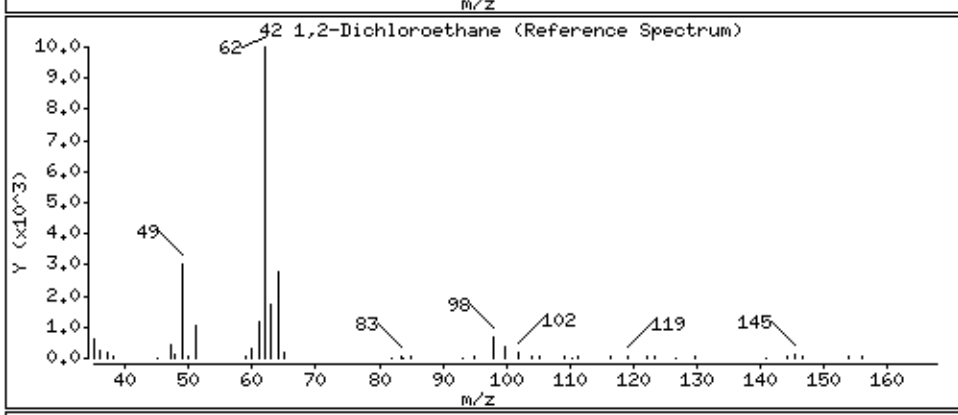
Concentration: 36.9 ppb

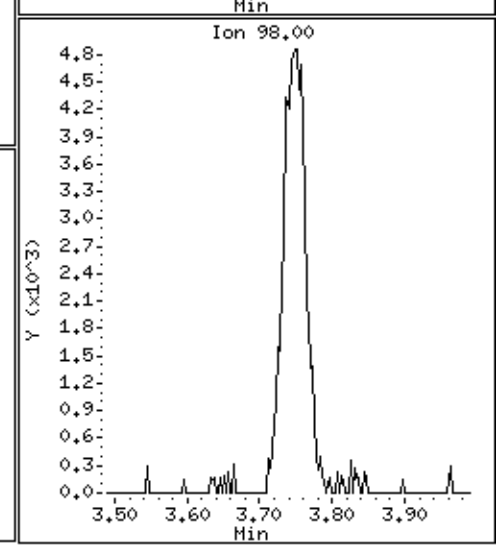


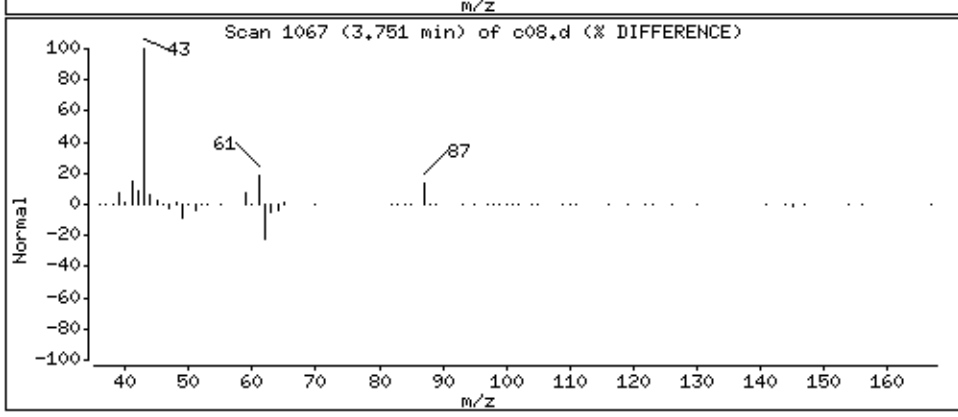












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

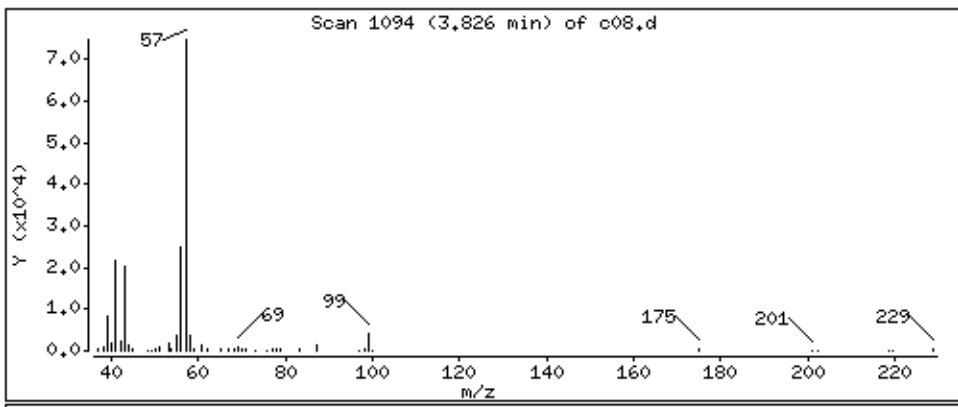
Operator: dae

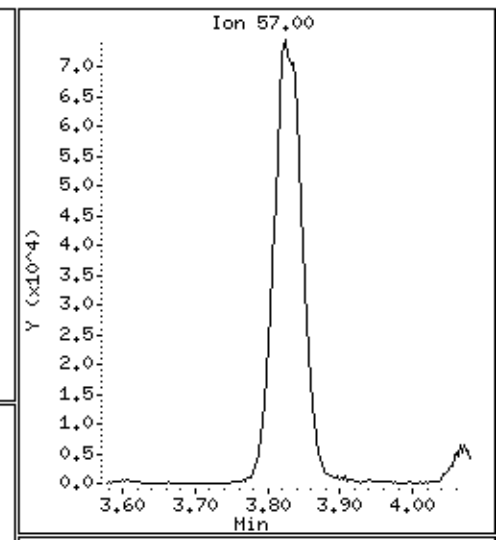
Column phase: DB-624

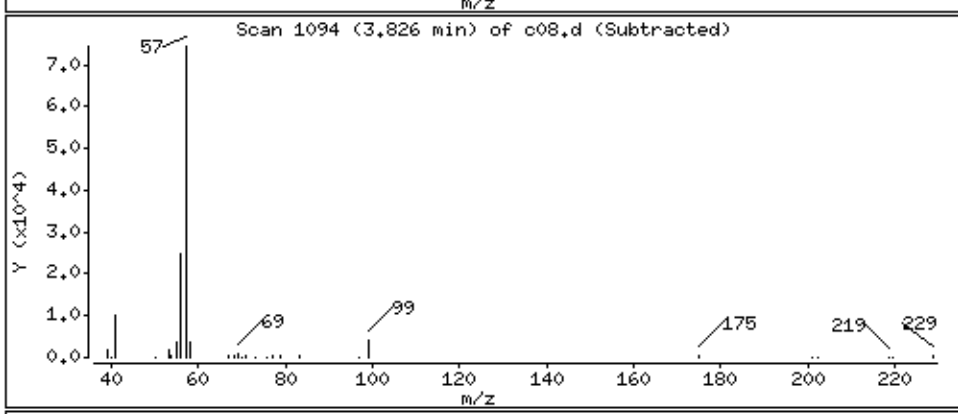
Column diameter: 0.18

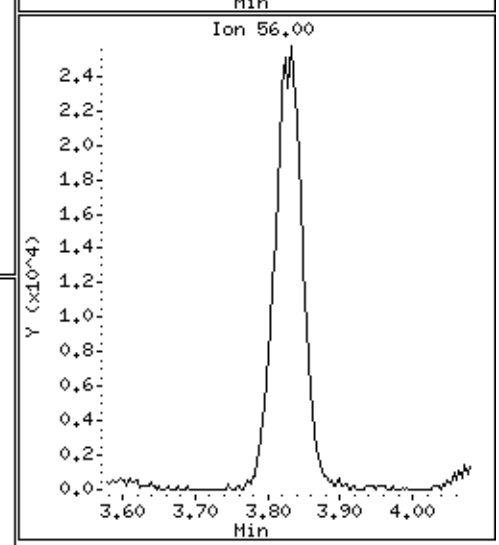
43 2,2,4-Trimethylpentane

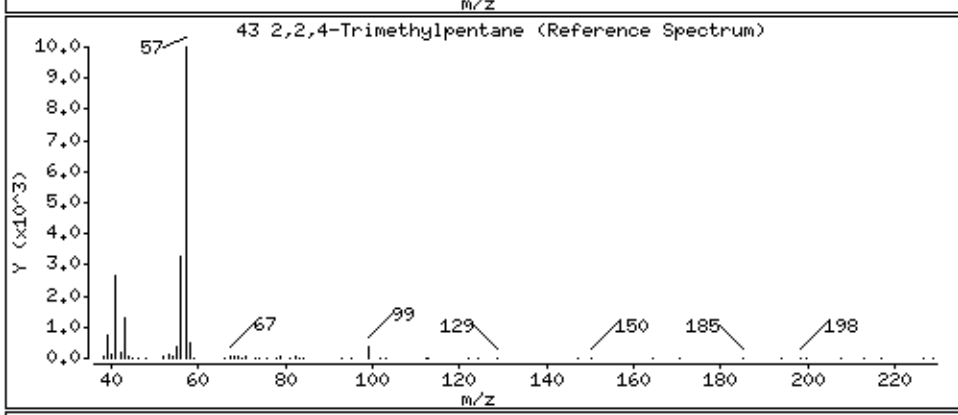
Concentration: 35.8 ppb

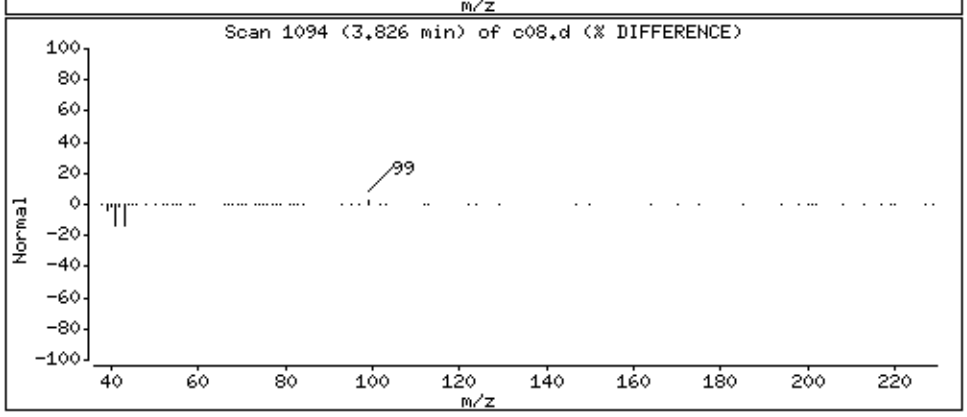












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

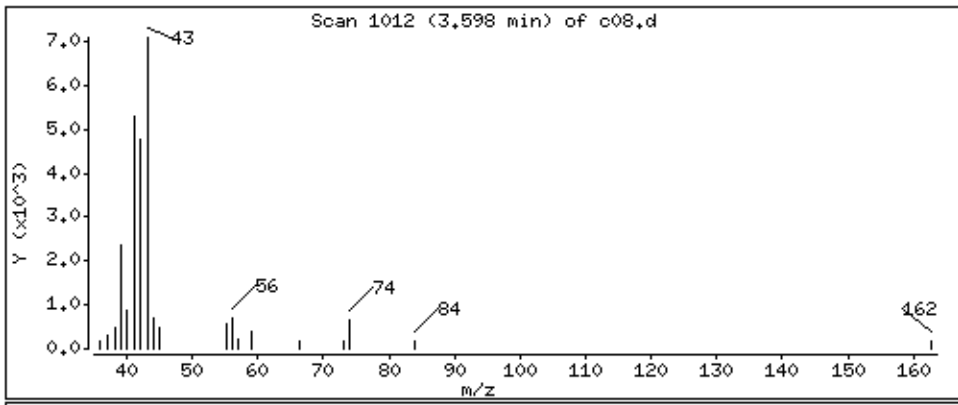
Operator: dae

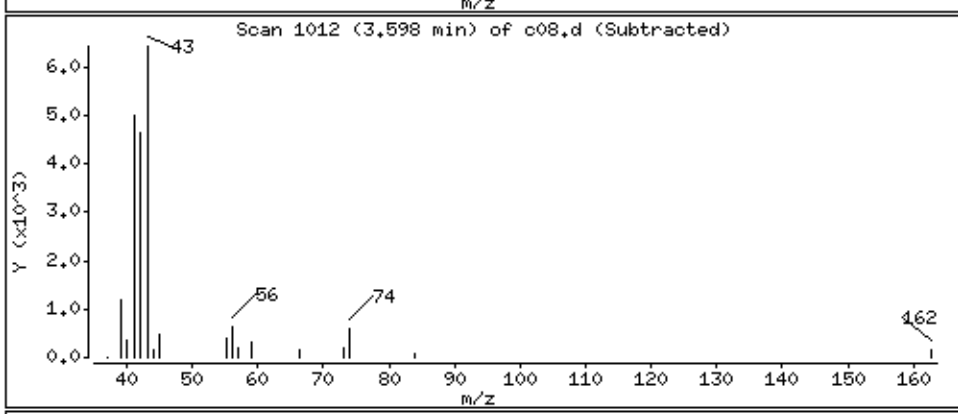
Column phase: DB-624

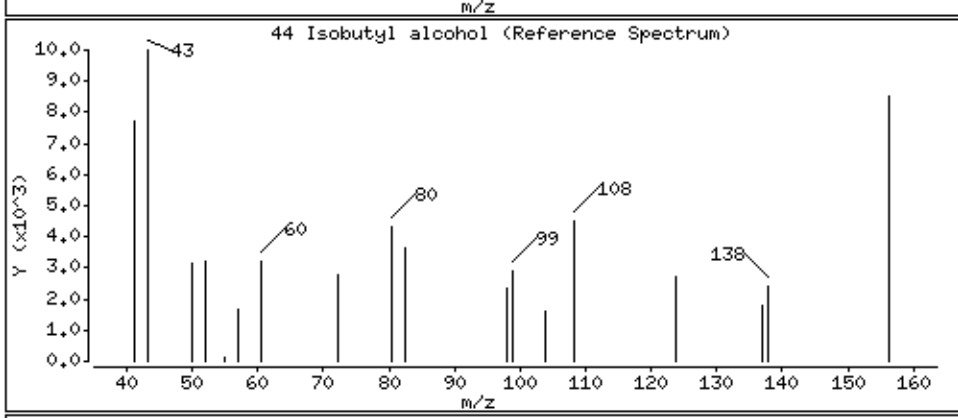
Column diameter: 0.18

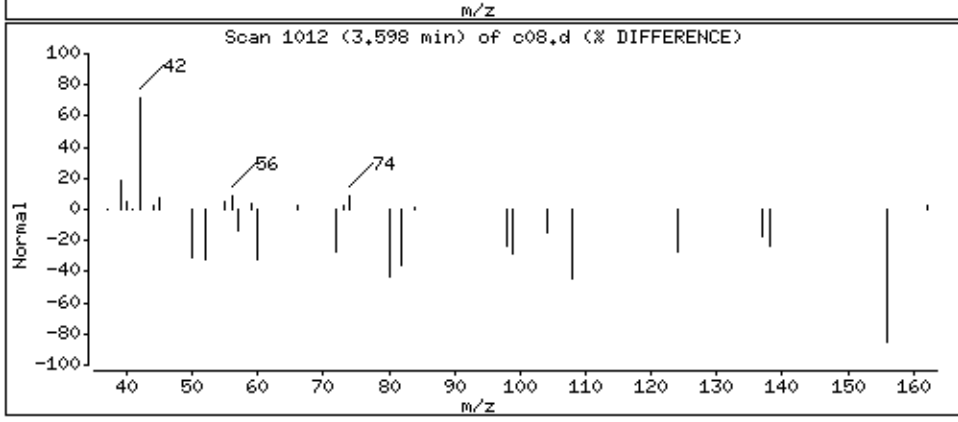
44 Isobutyl alcohol

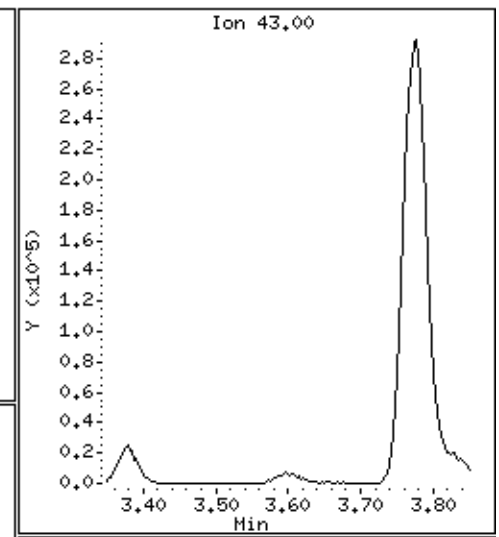
Concentration: 0.874 ppb

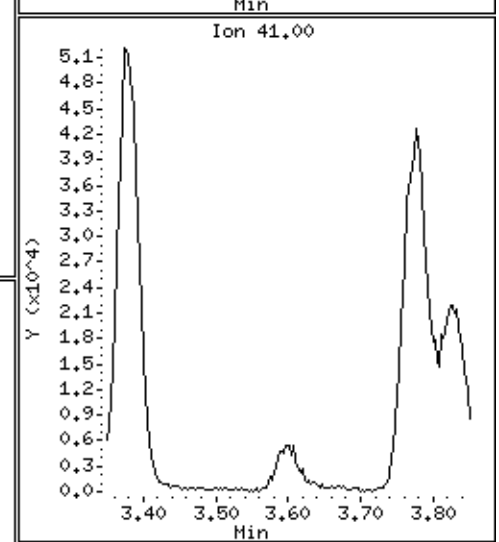


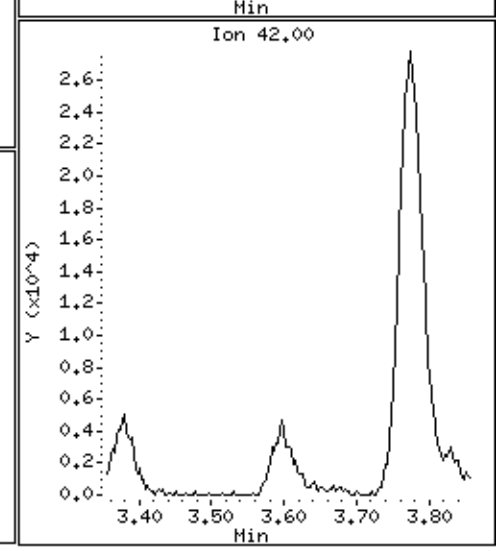












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

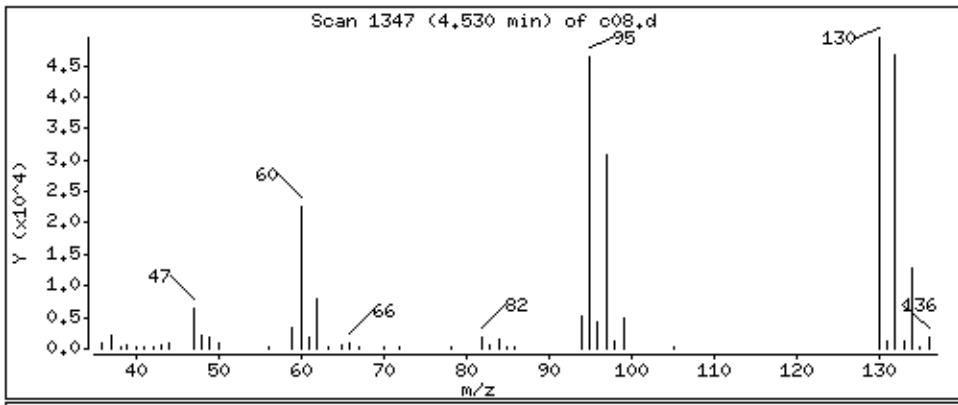
Operator: dae

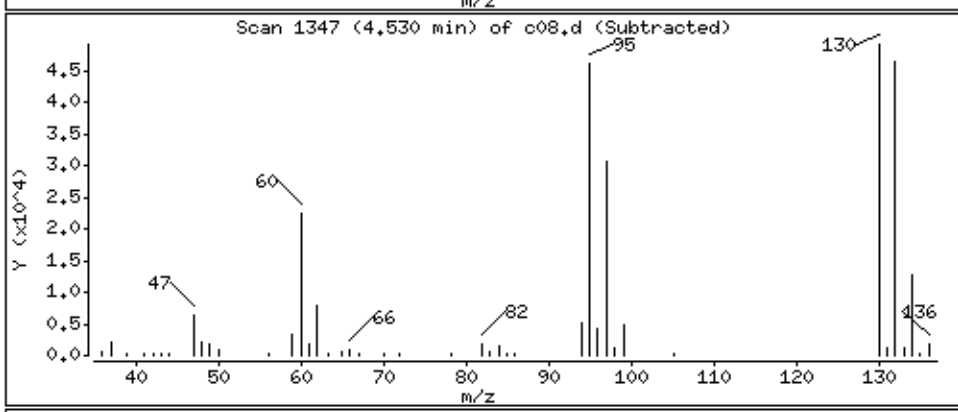
Column phase: DB-624

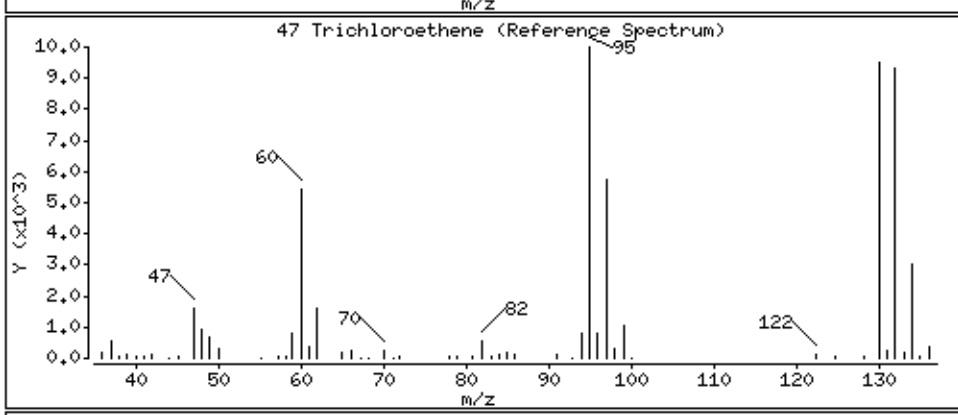
Column diameter: 0.18

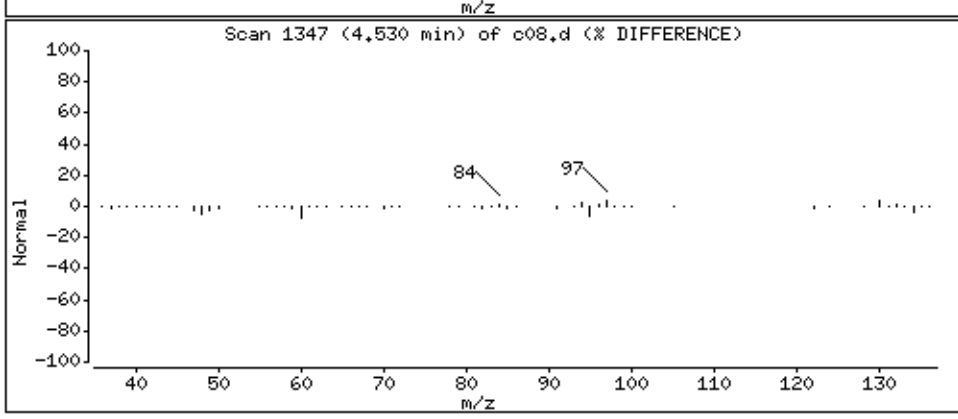
47 Trichloroethene

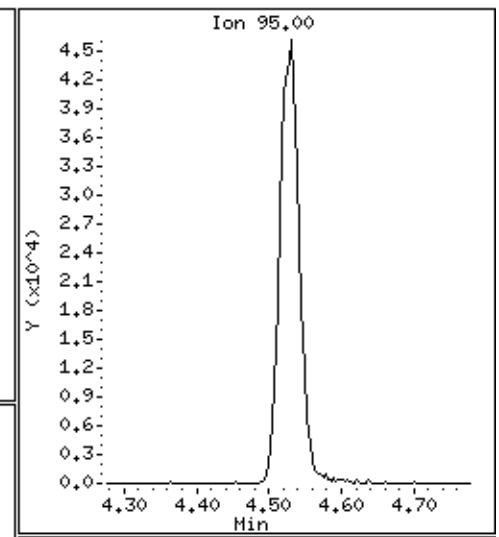
Concentration: 38.1 ppb

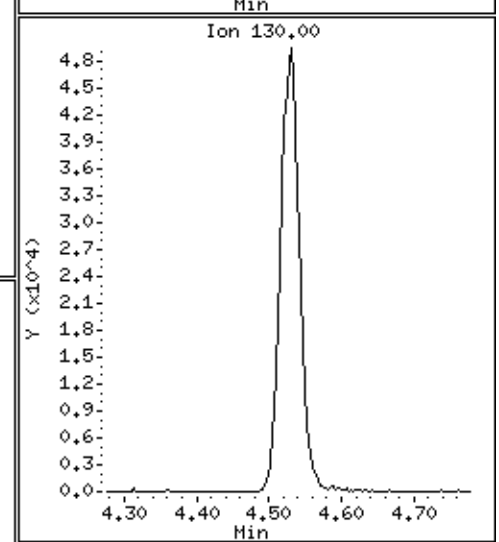


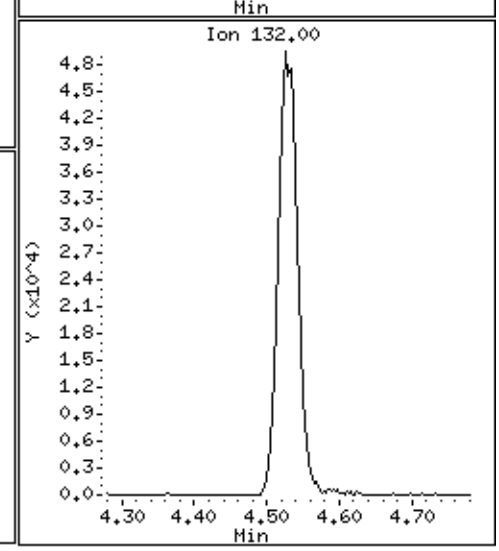












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

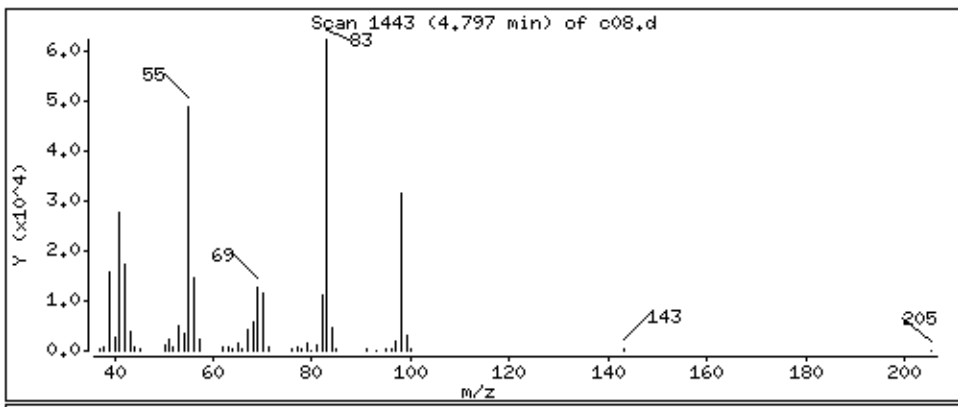
Operator: dae

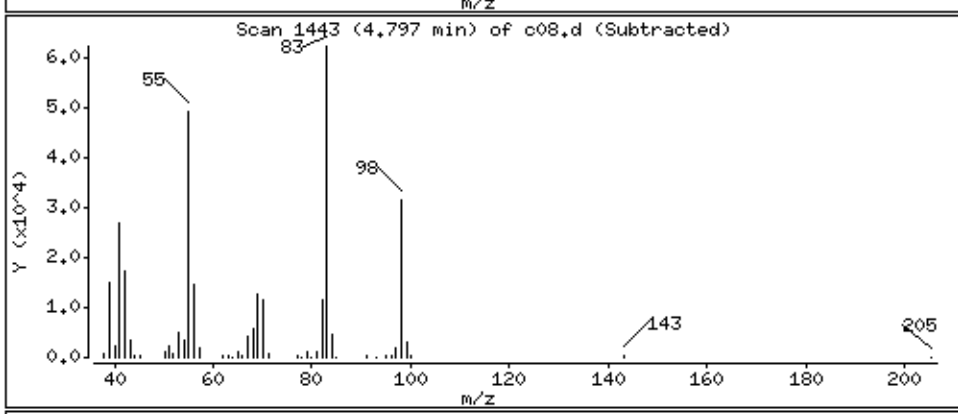
Column phase: DB-624

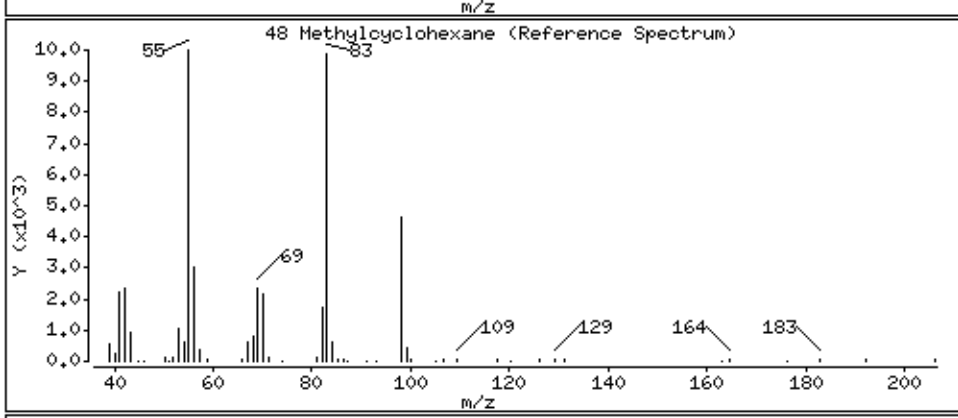
Column diameter: 0.18

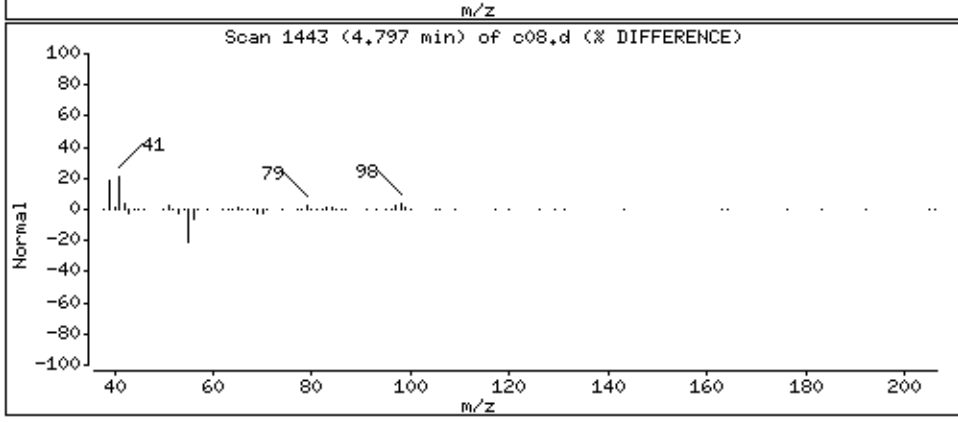
48 Methylcyclohexane

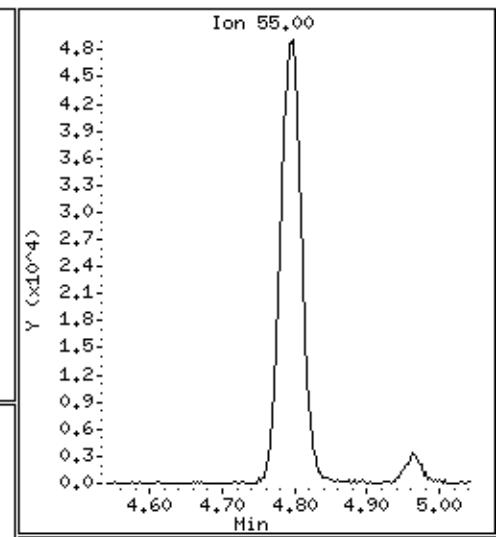
Concentration: 37.9 ppb

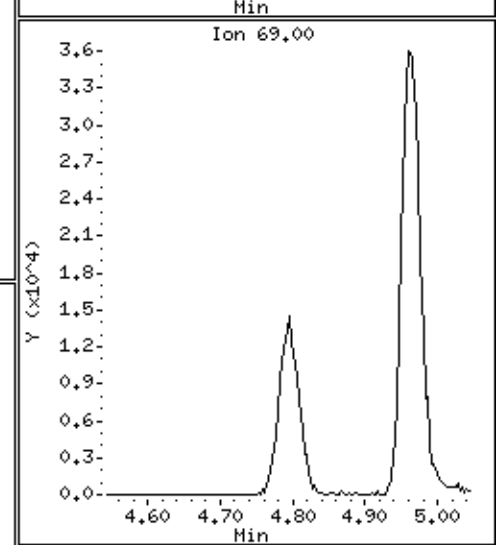


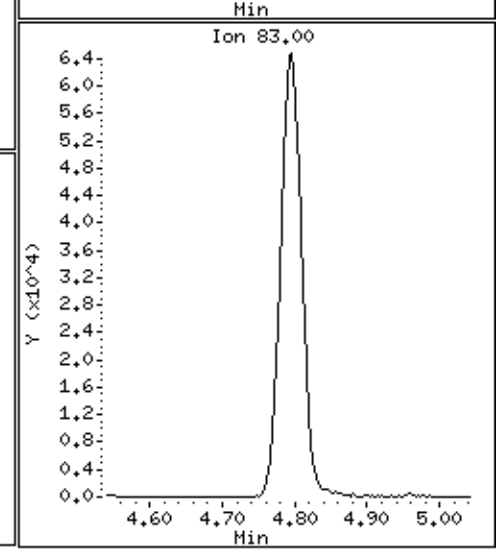












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

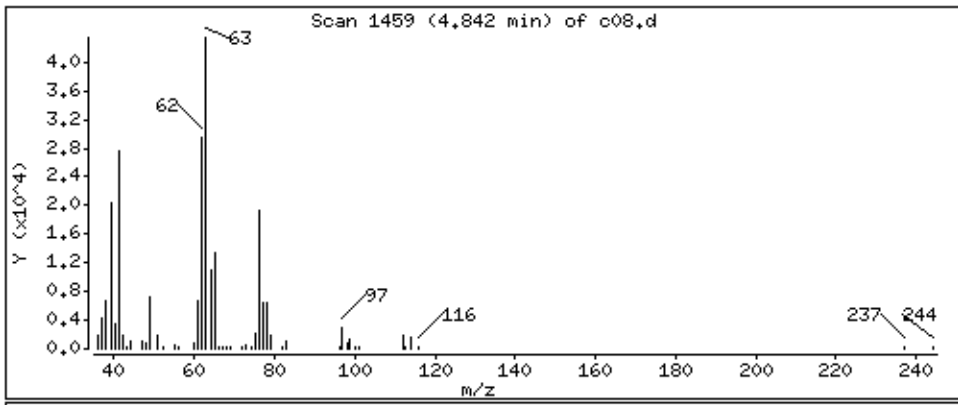
Operator: dae

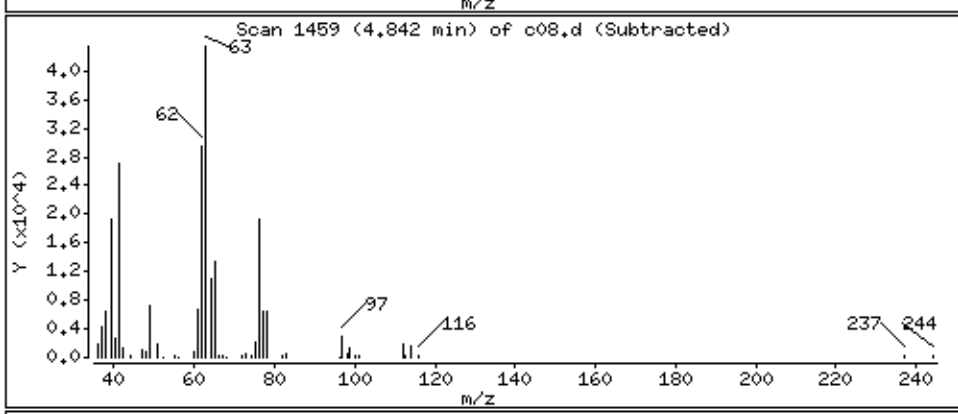
Column phase: DB-624

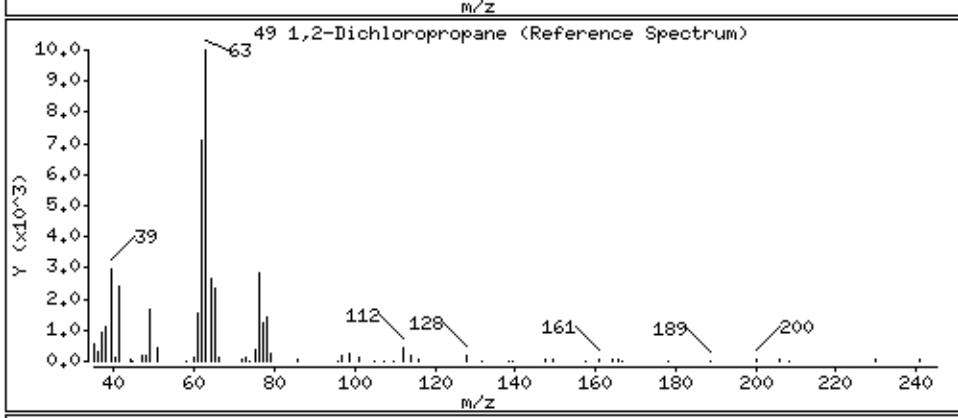
Column diameter: 0.18

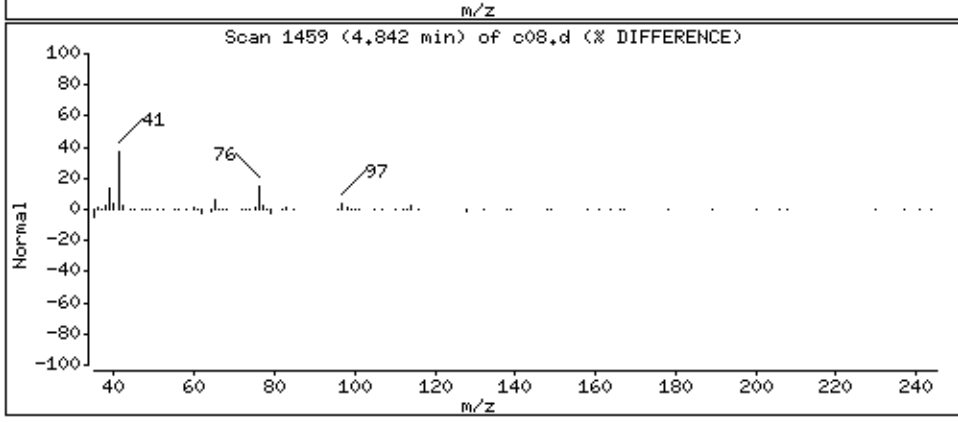
49 1,2-Dichloropropane

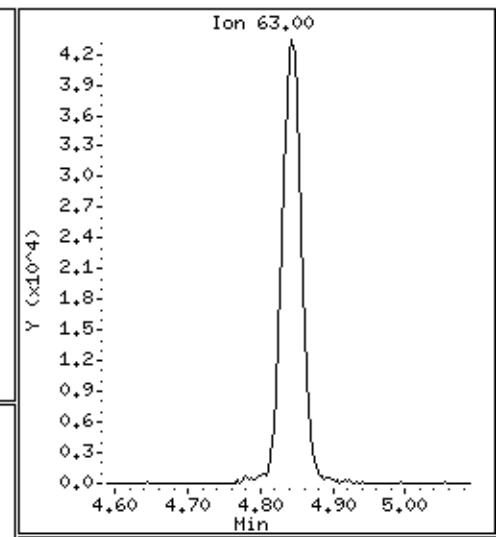
Concentration: 36.3 ppb

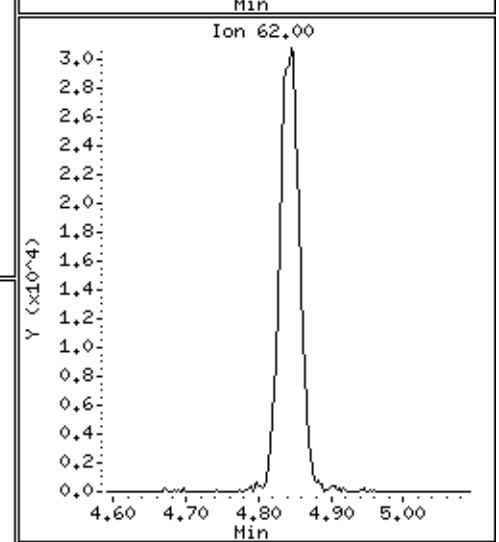


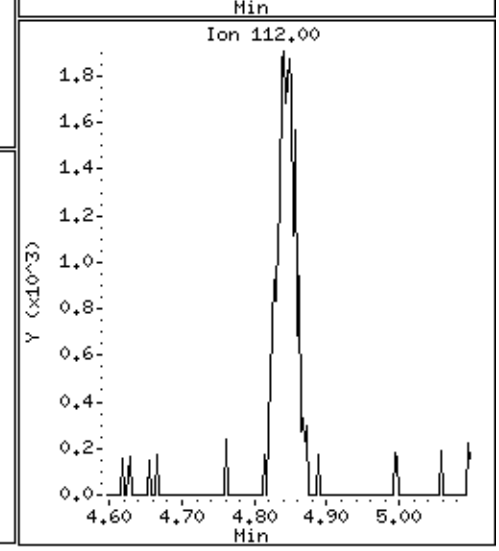












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

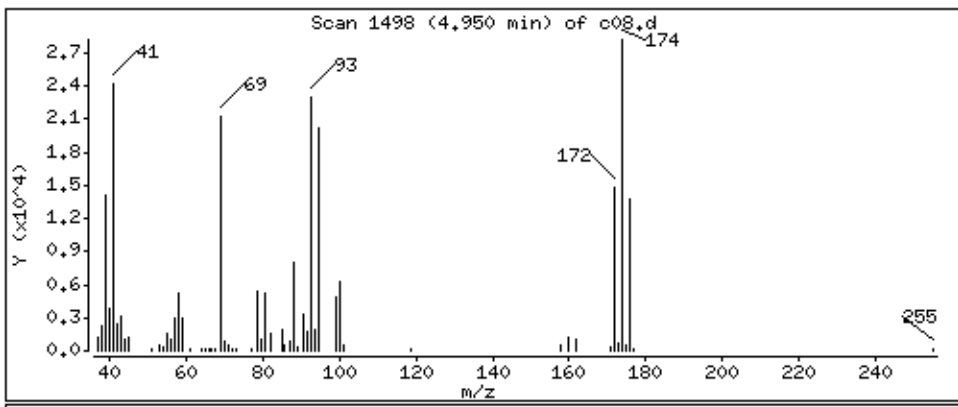
Operator: dae

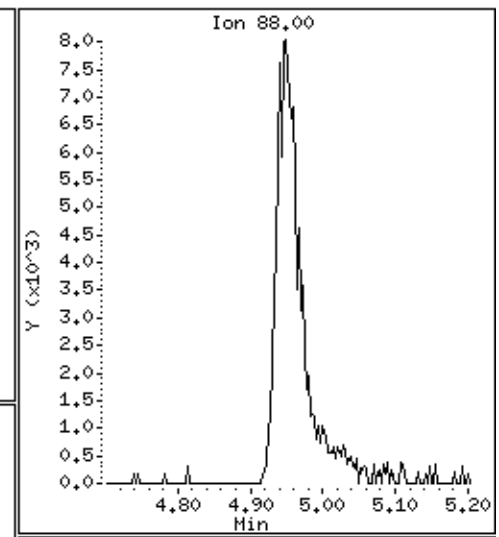
Column phase: DB-624

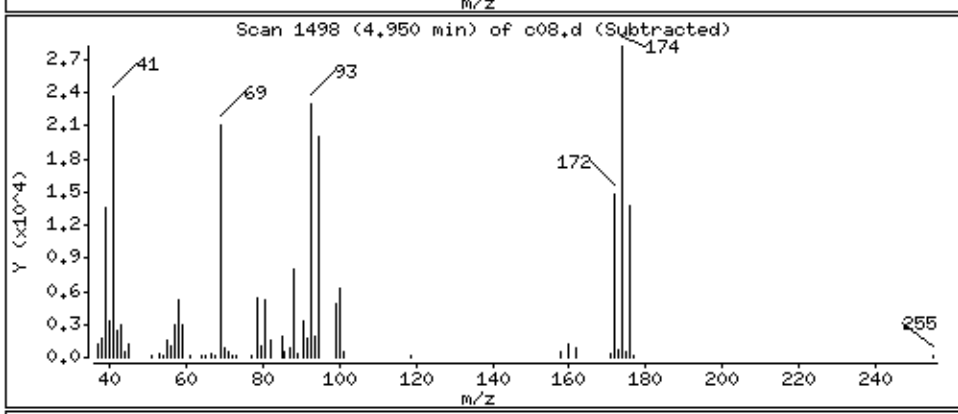
Column diameter: 0.18

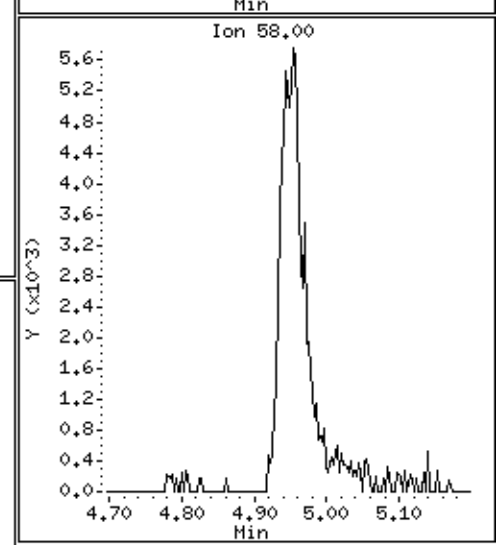
50 1,4-Dioxane

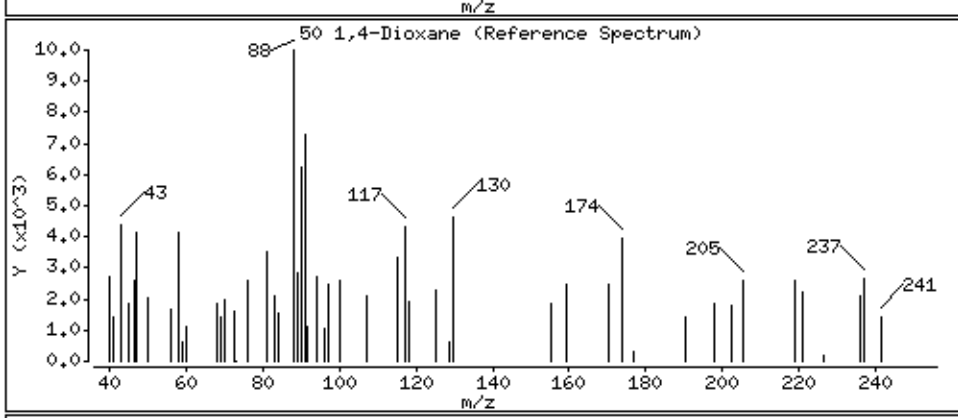
Concentration: 714 ppb

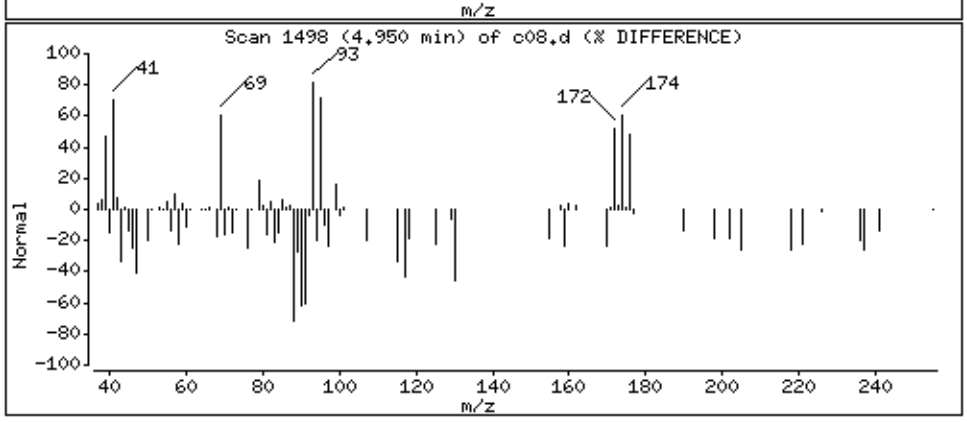












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

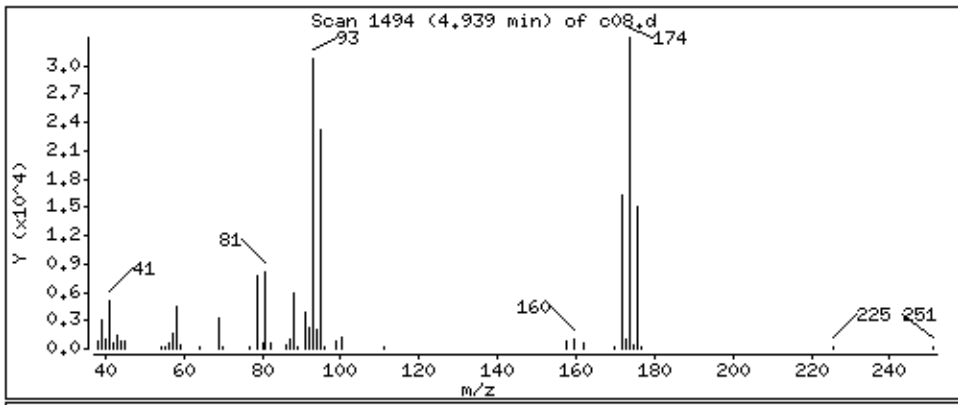
Operator: dae

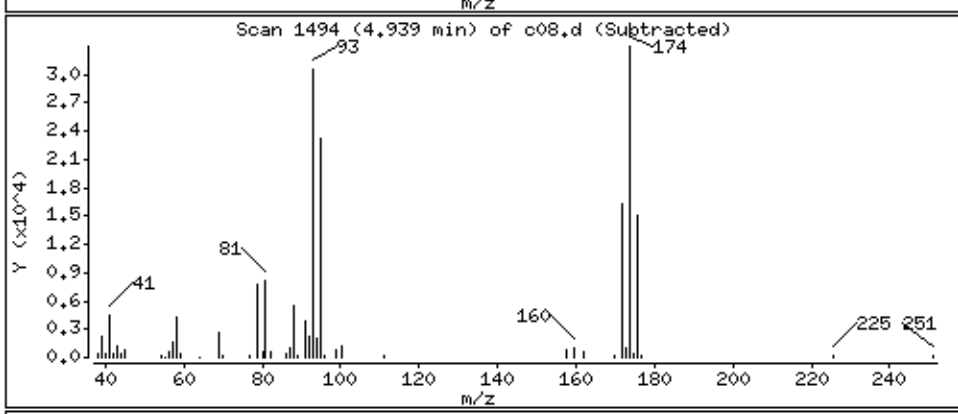
Column phase: DB-624

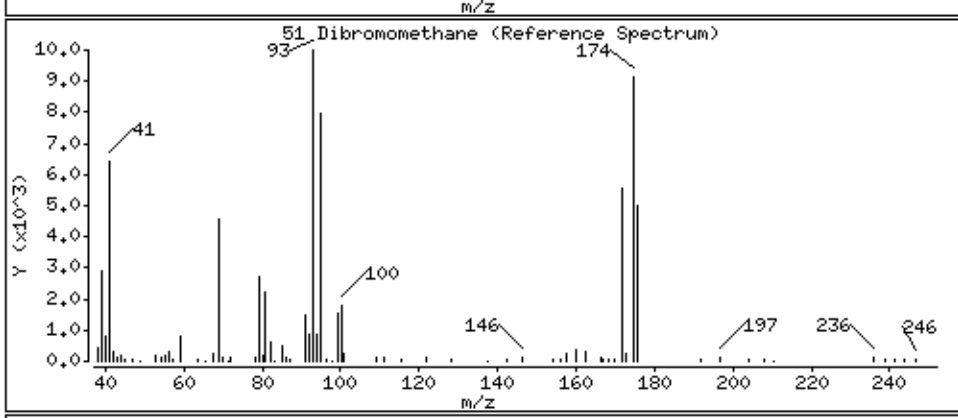
Column diameter: 0.18

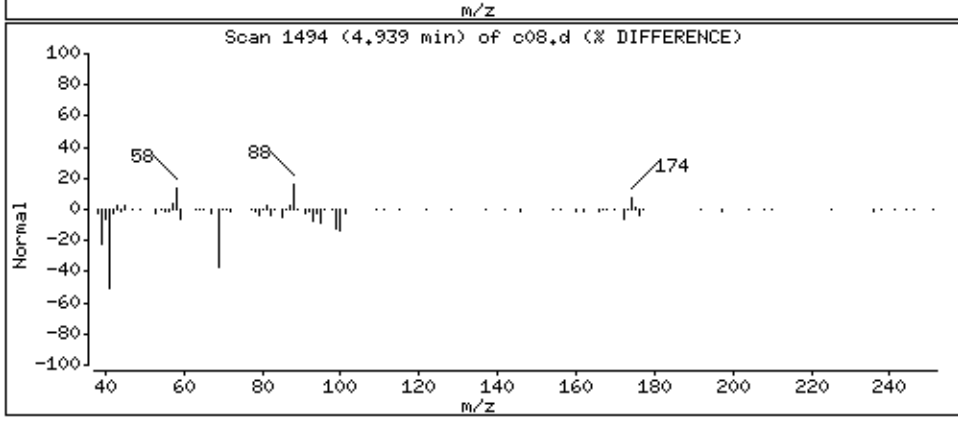
51 Dibromomethane

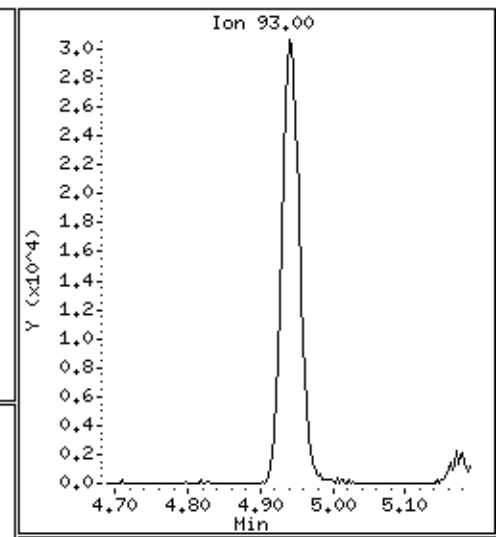
Concentration: 36.4 ppb

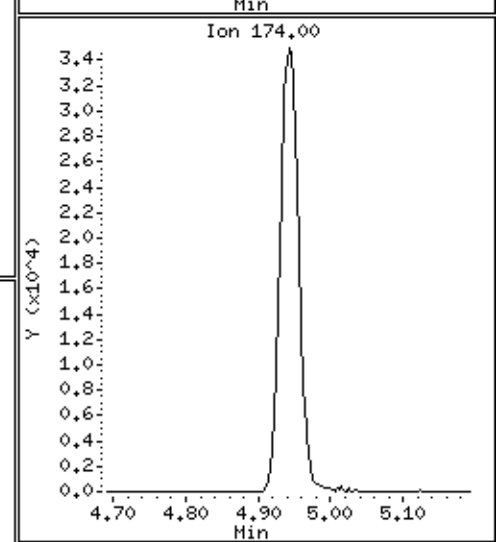


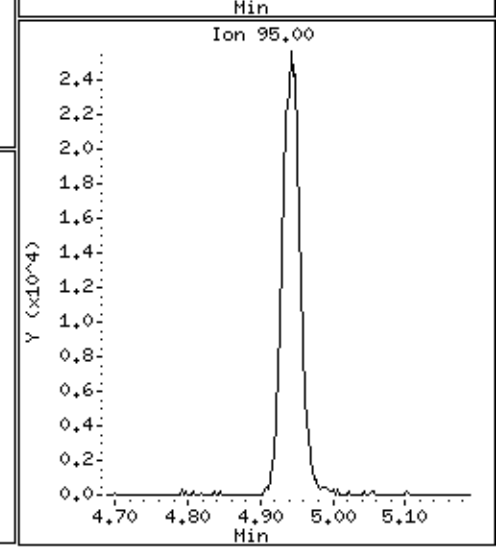












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

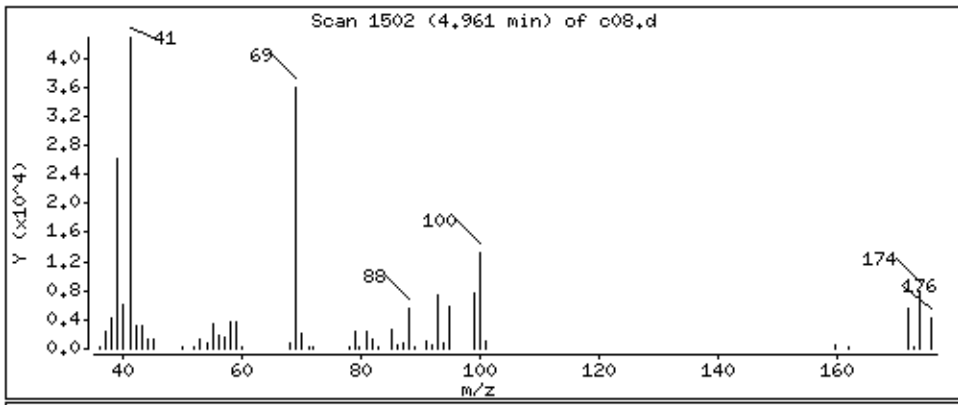
Operator: dae

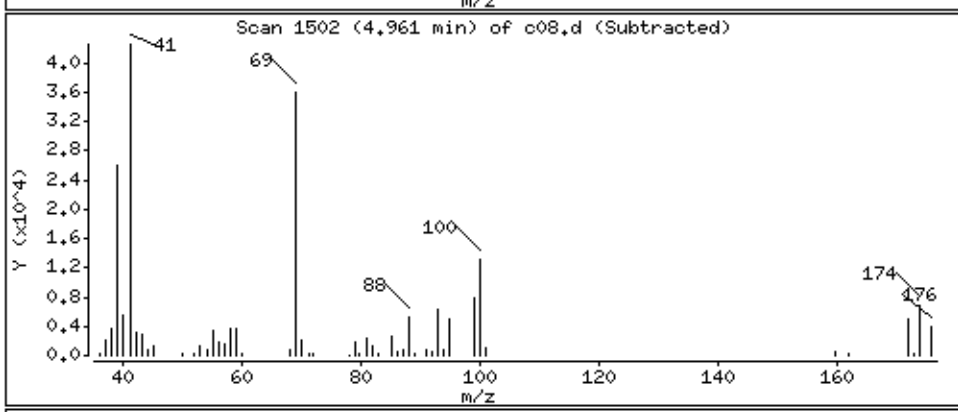
Column phase: DB-624

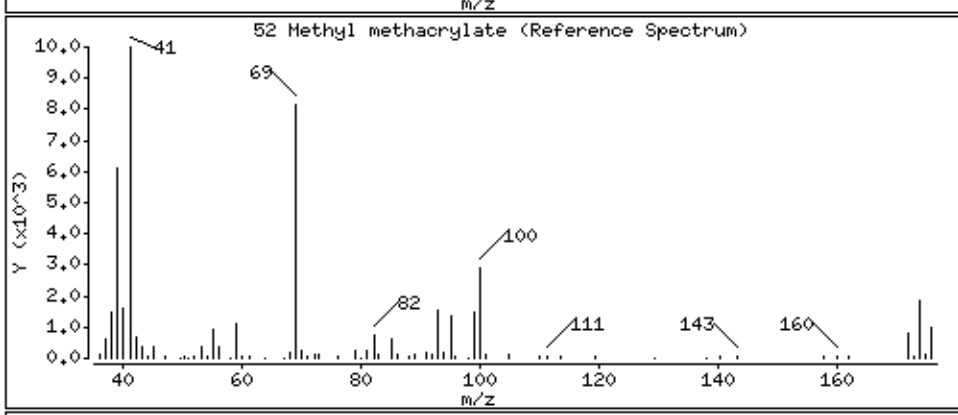
Column diameter: 0.18

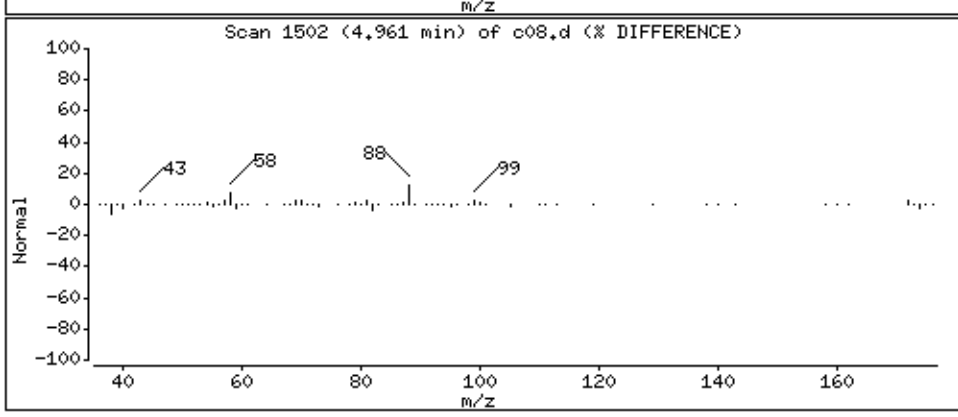
52 Methyl methacrylate

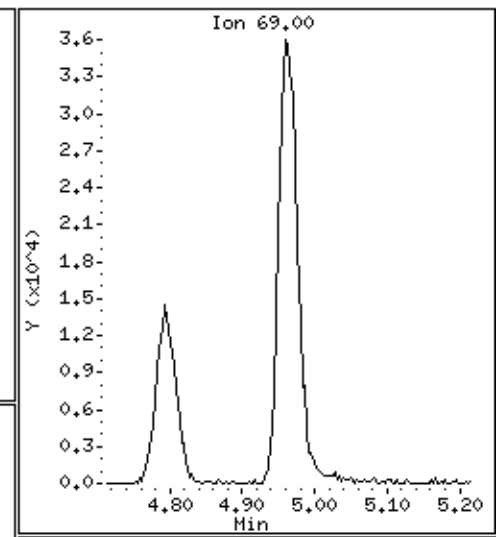
Concentration: 34.6 ppb

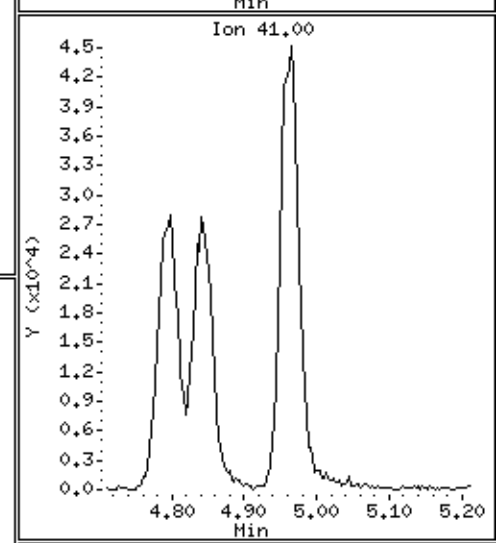


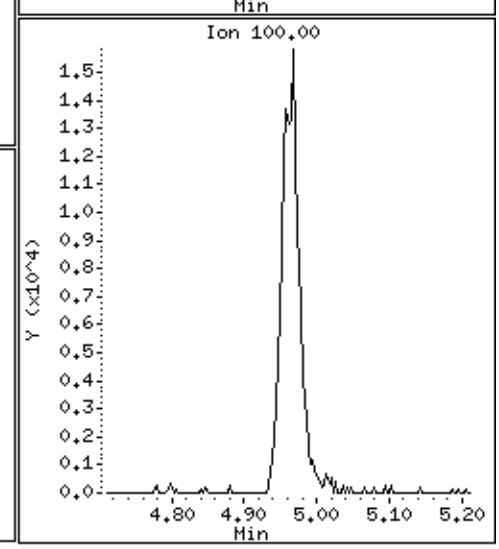












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

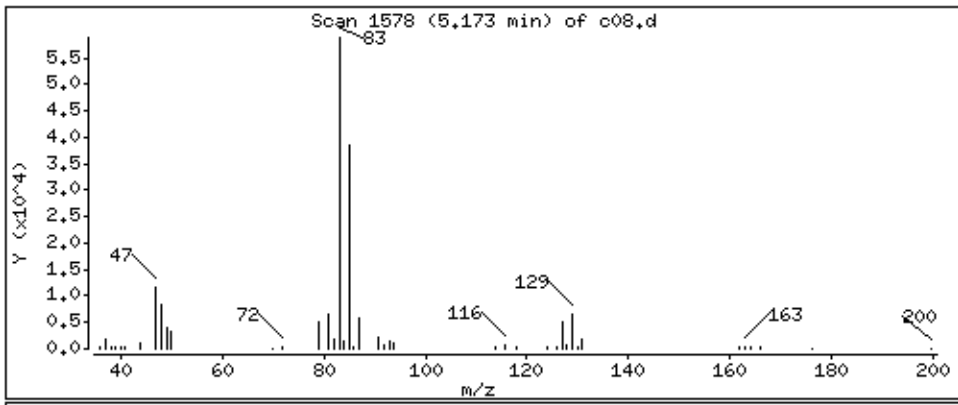
Operator: dae

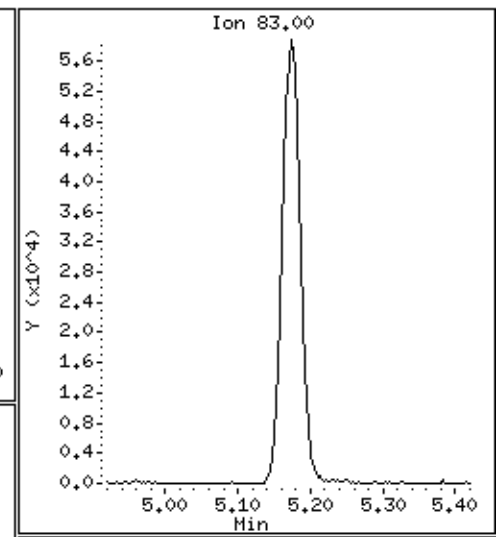
Column phase: DB-624

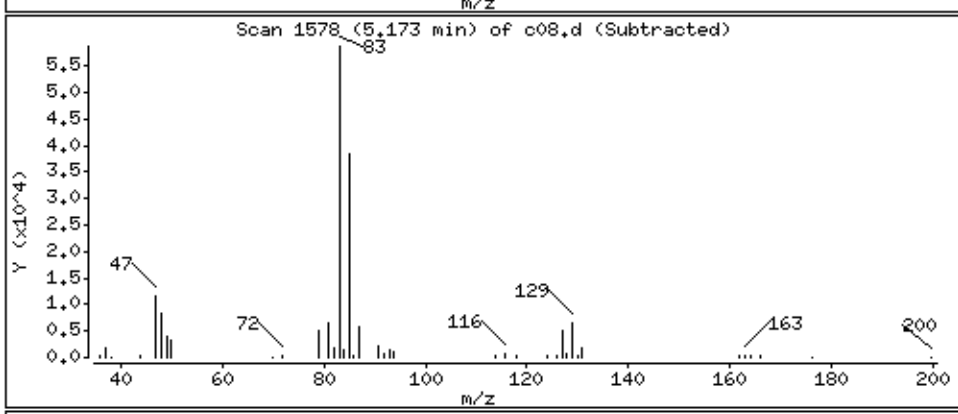
Column diameter: 0.18

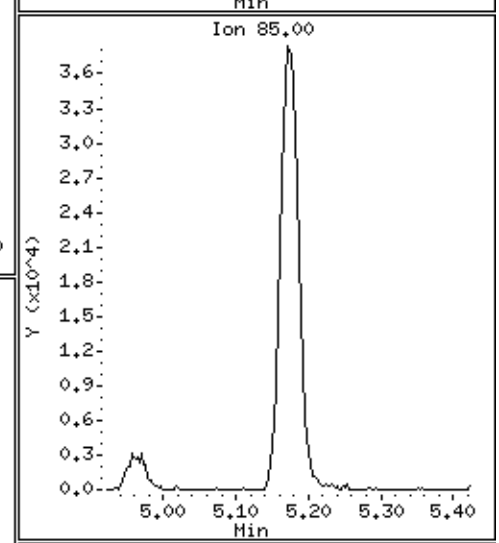
53 Bromodichloromethane

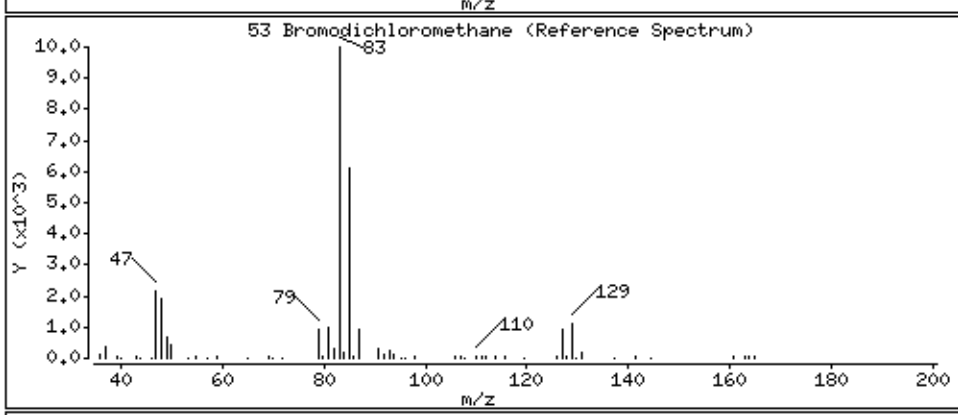
Concentration: 35.0 ppb

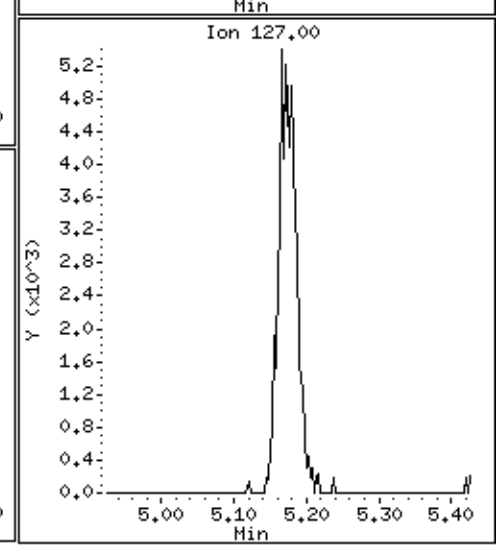


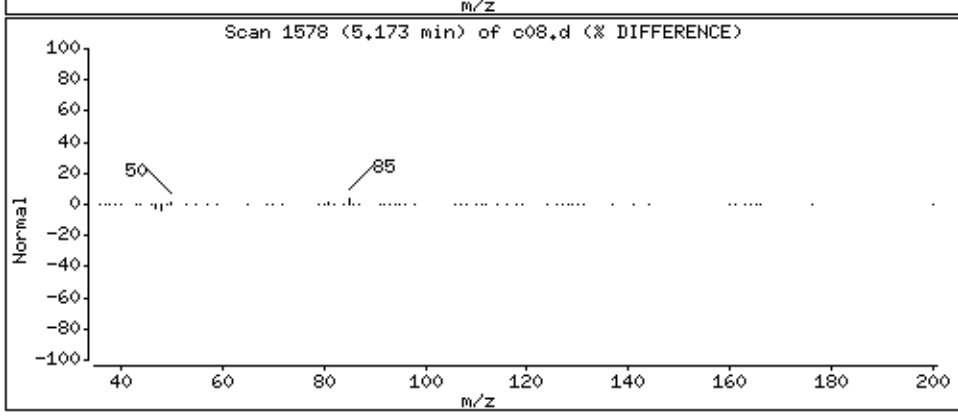












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

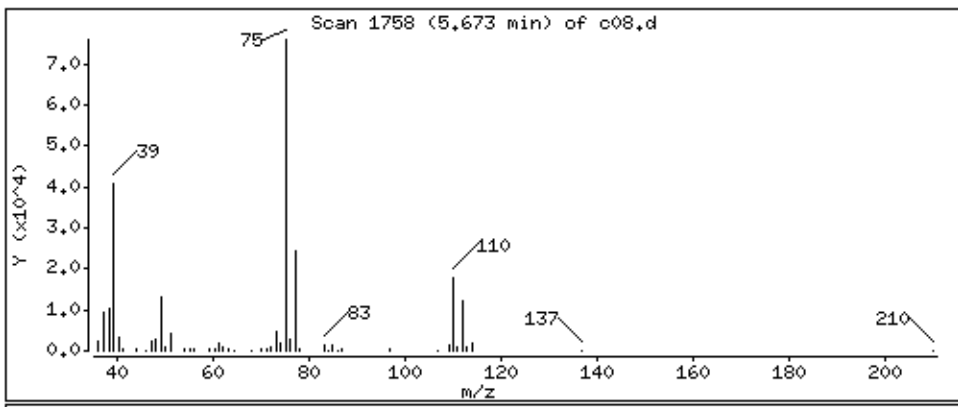
Operator: dae

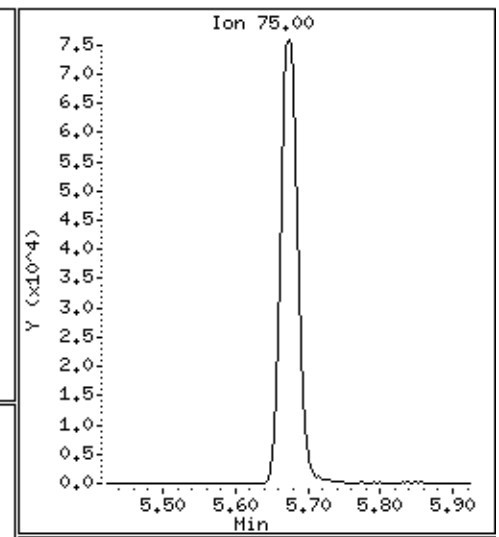
Column phase: DB-624

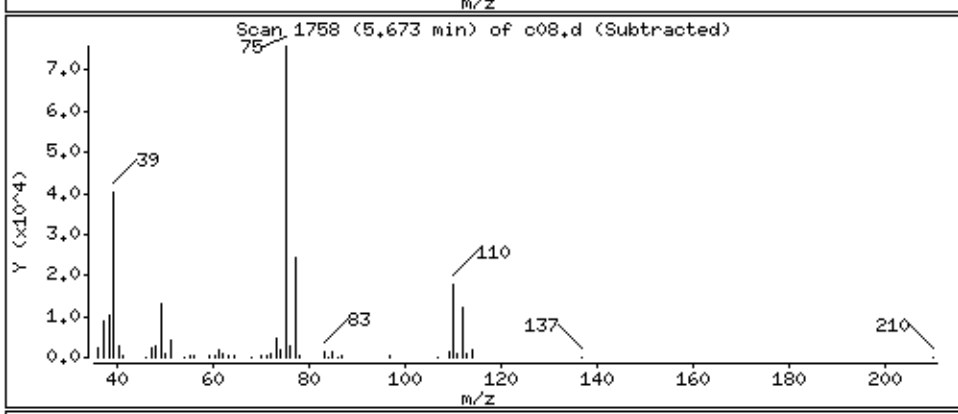
Column diameter: 0.18

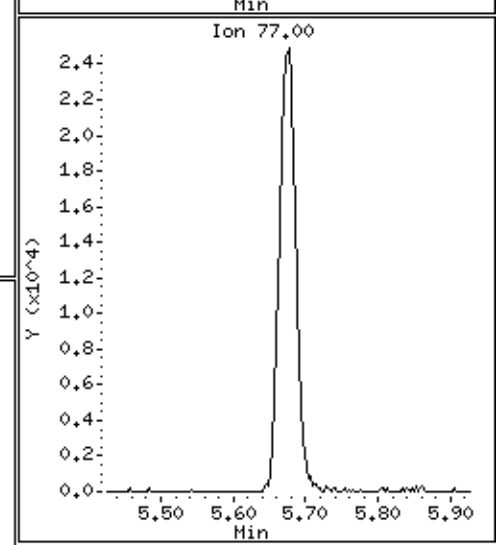
55 cis-1,3-Dichloropropene

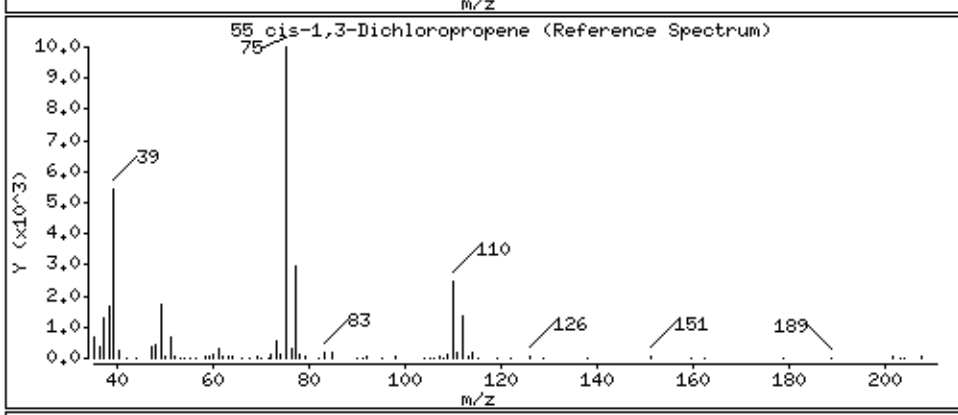
Concentration: 33.5 ppb

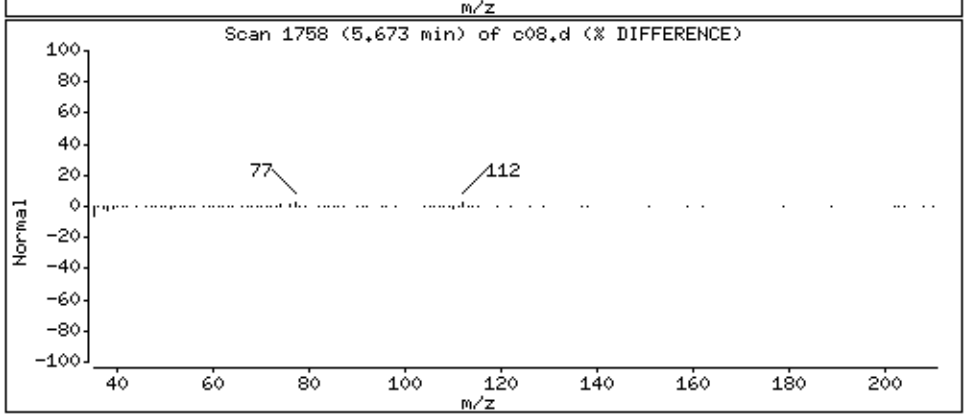












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Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

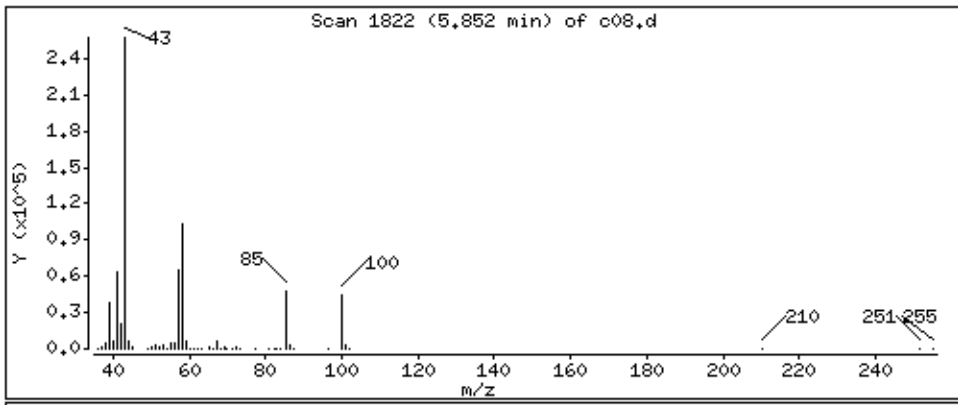
Operator: dae

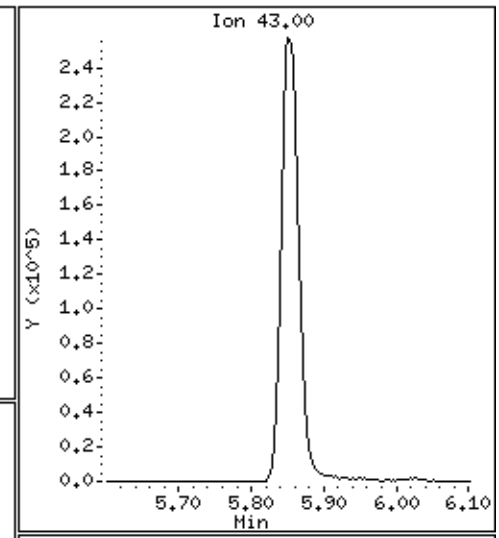
Column phase: DB-624

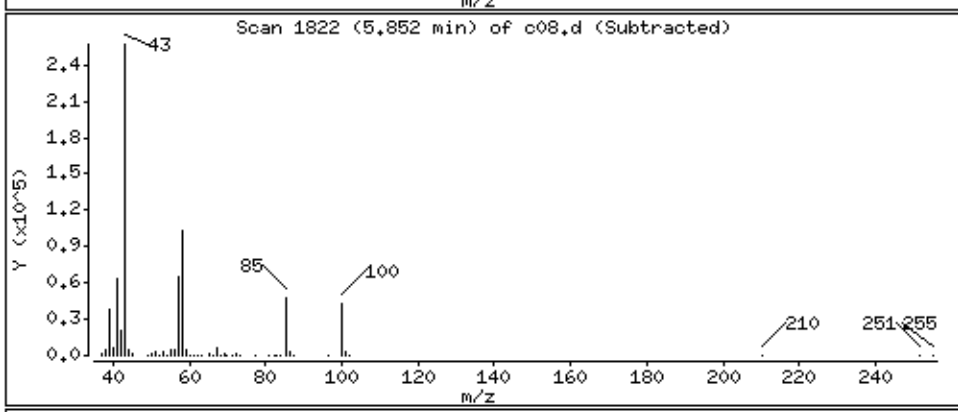
Column diameter: 0.18

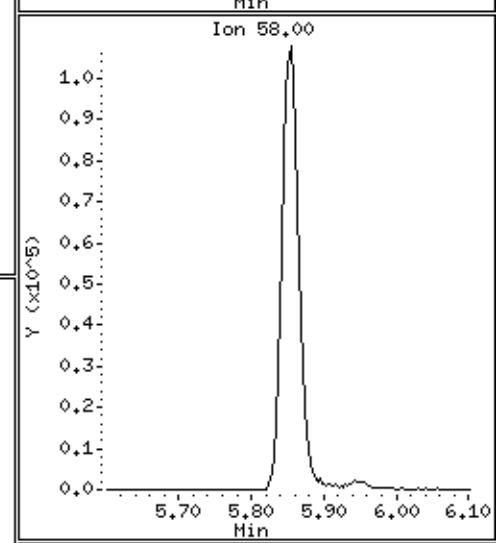
56 4-Methyl-2-Pentanone

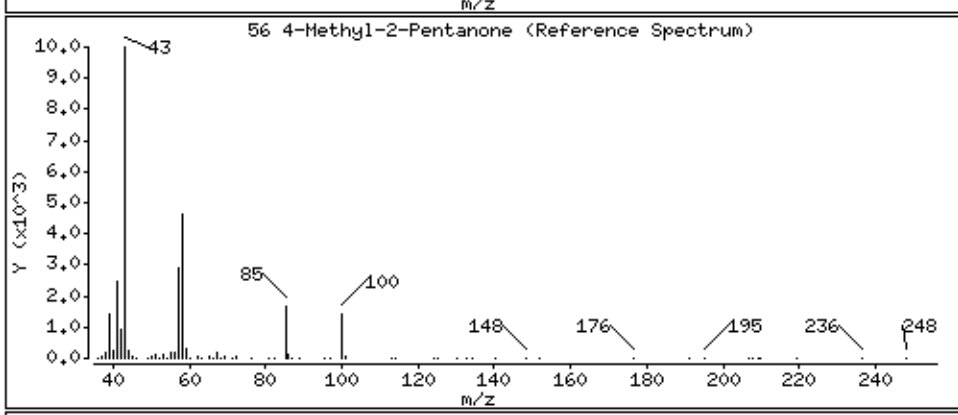
Concentration: 171 ppb

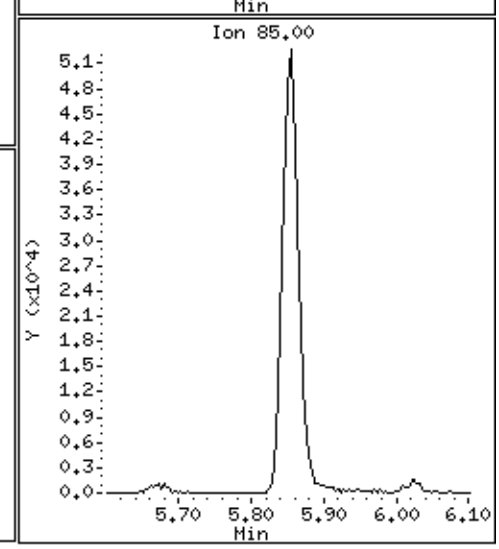


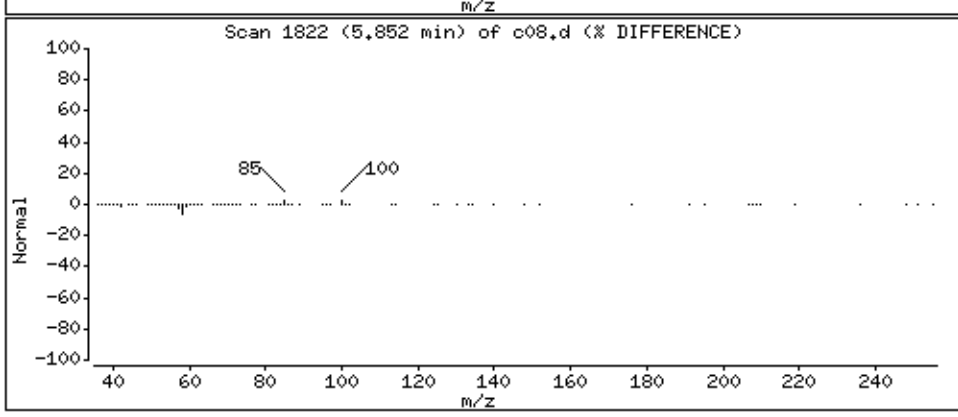












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

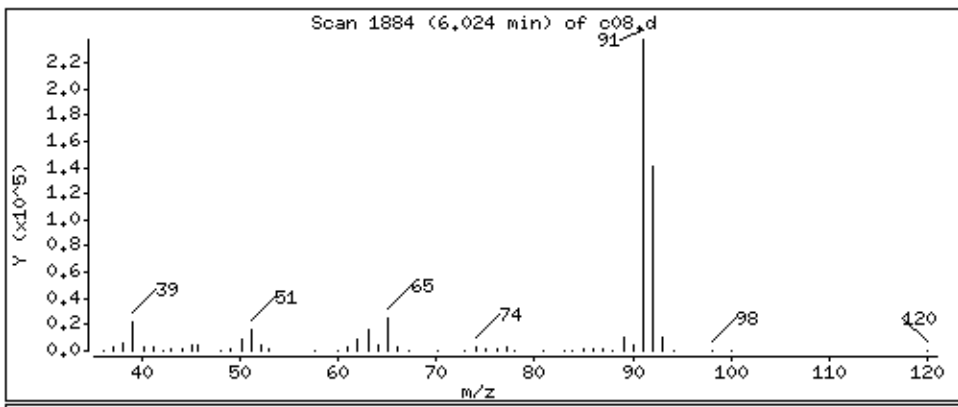
Operator: dae

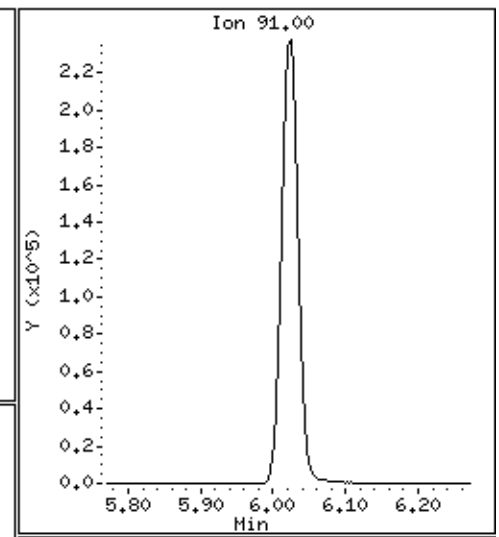
Column phase: DB-624

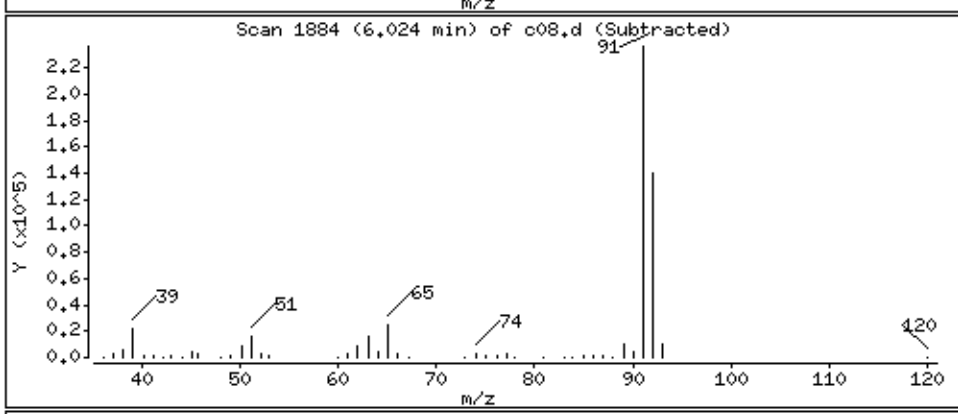
Column diameter: 0.18

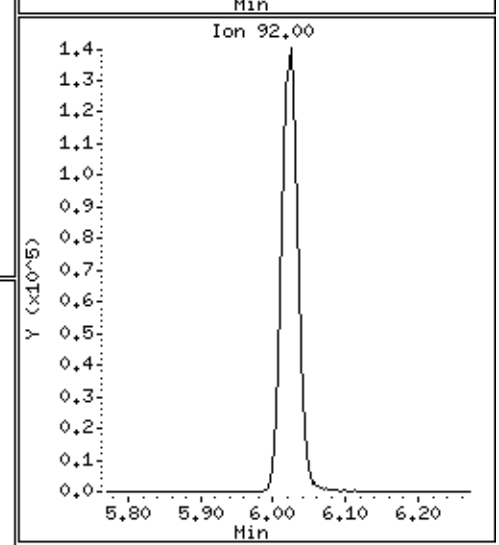
58 Toluene

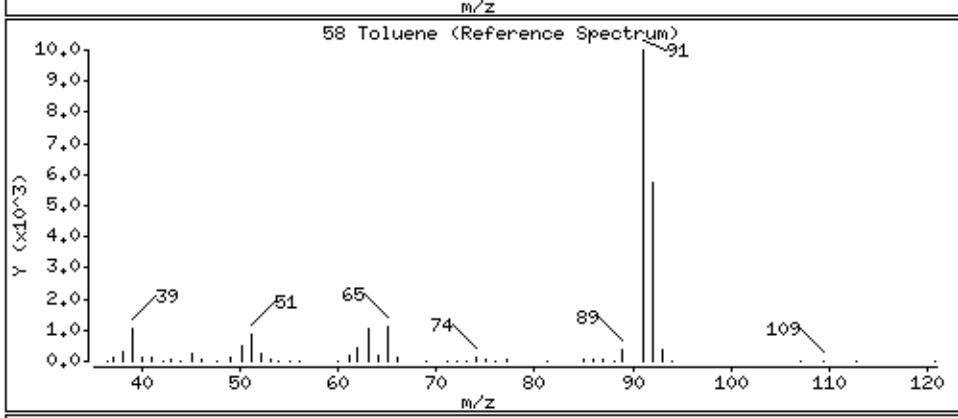
Concentration: 39.6 ppb

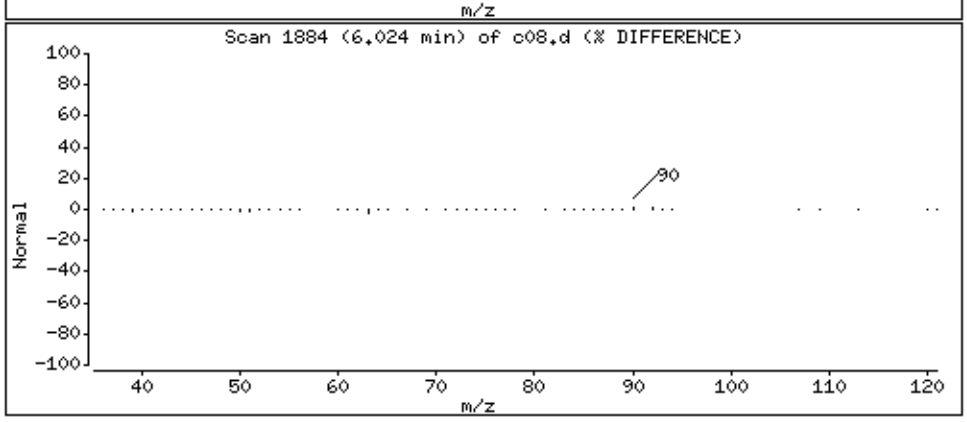












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

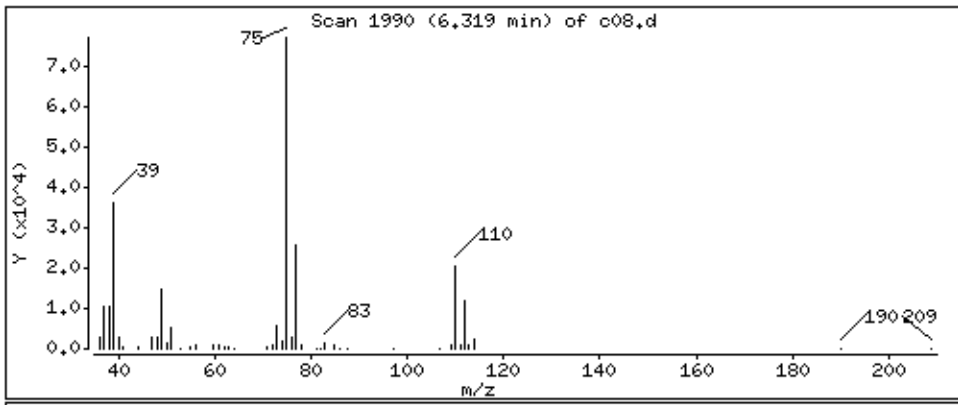
Operator: dae

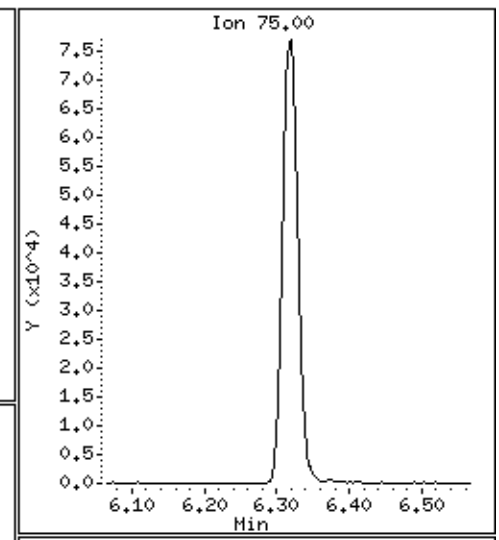
Column phase: DB-624

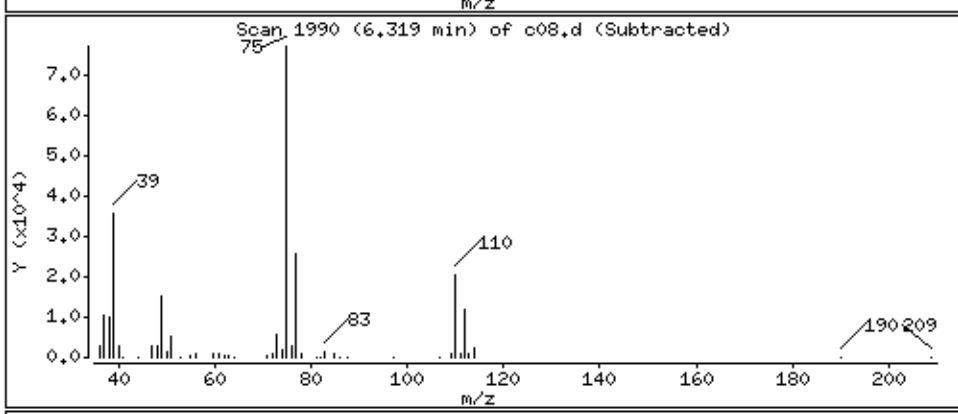
Column diameter: 0.18

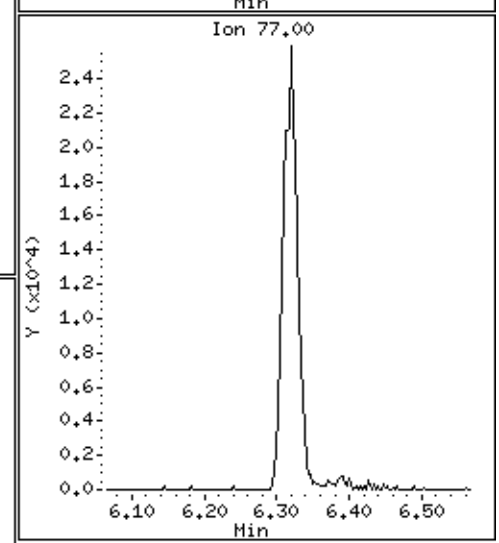
59 trans-1,3-Dichloropropene

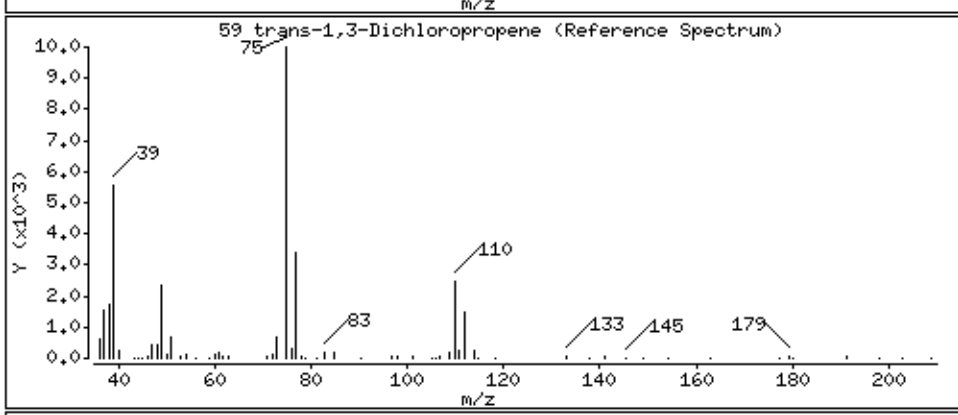
Concentration: 33.5 ppb

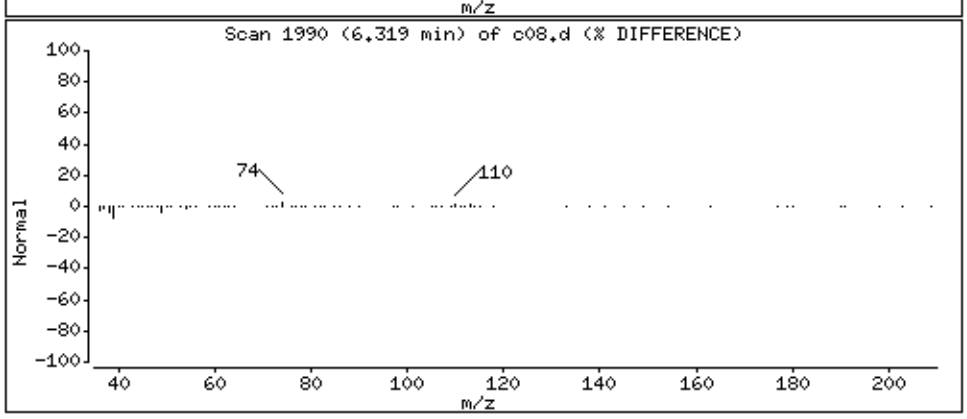












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

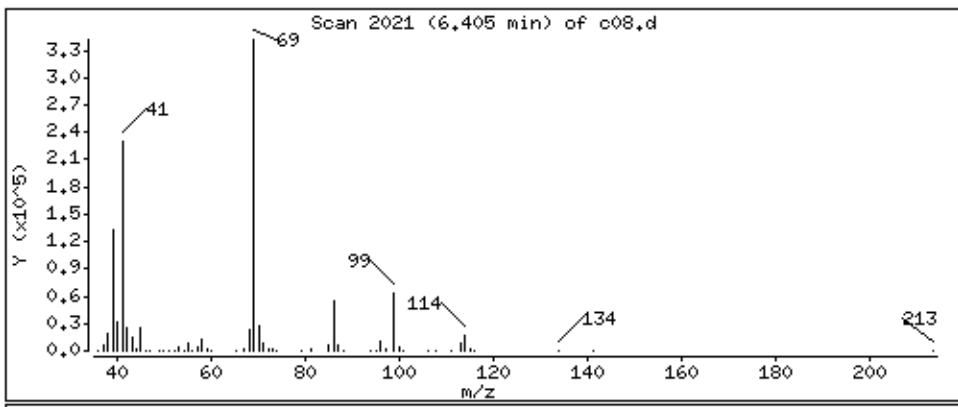
Operator: dae

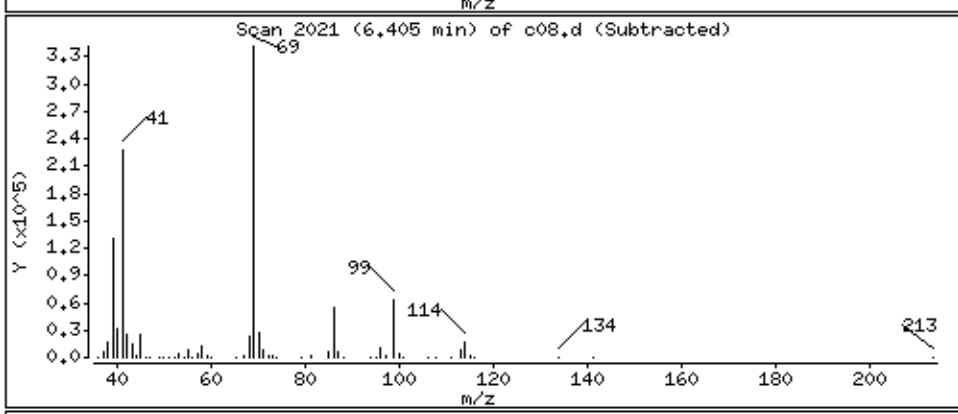
Column phase: DB-624

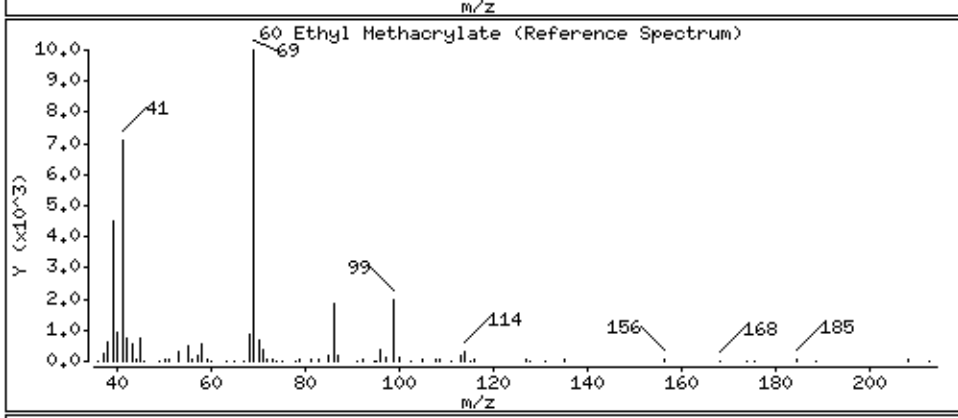
Column diameter: 0.18

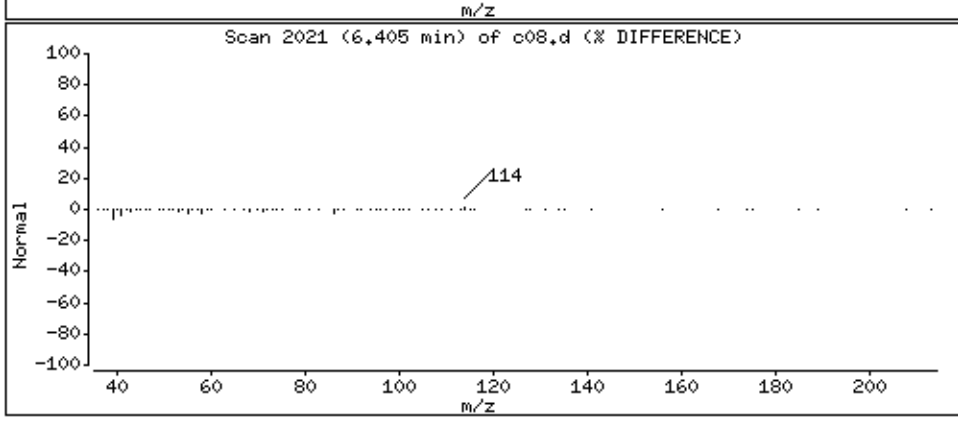
60 Ethyl Methacrylate

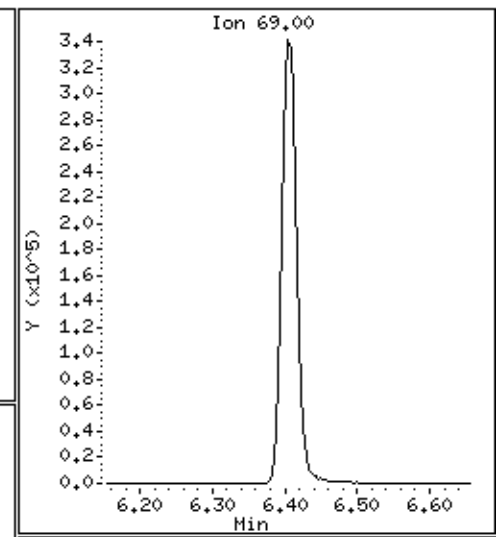
Concentration: 143 ppb

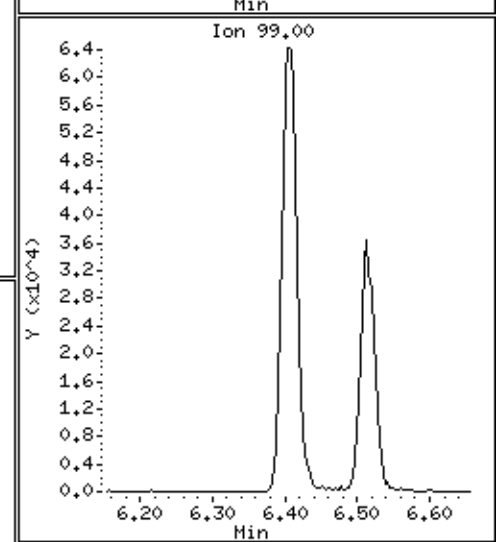


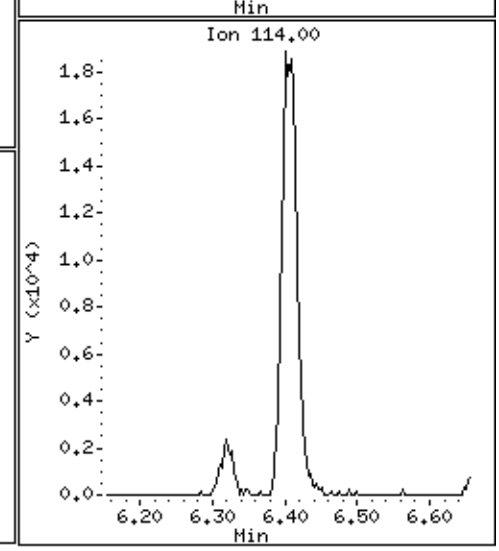












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

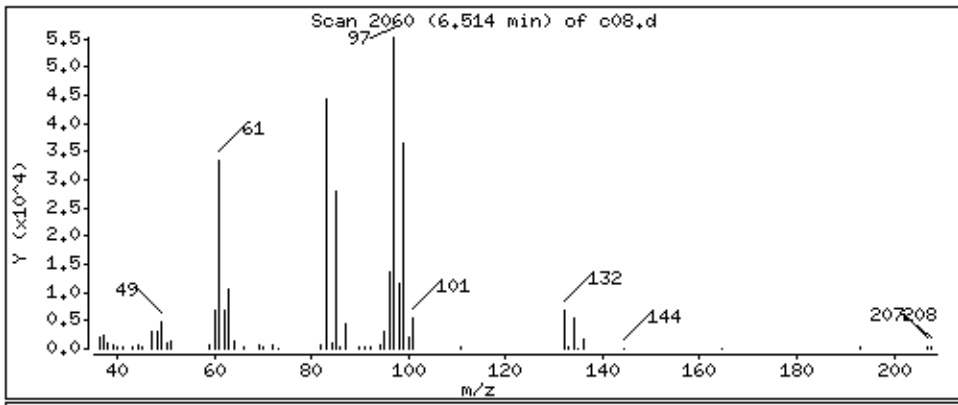
Operator: dae

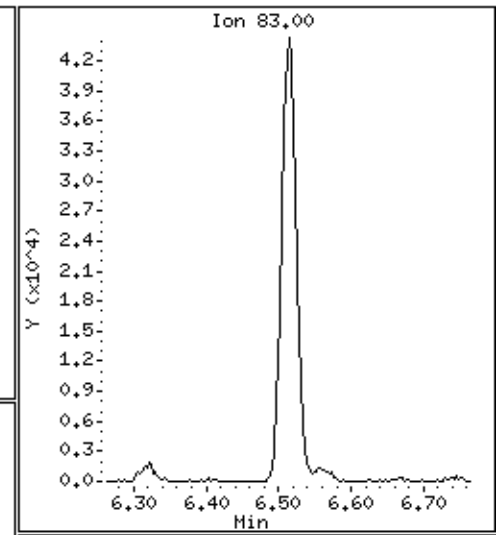
Column phase: DB-624

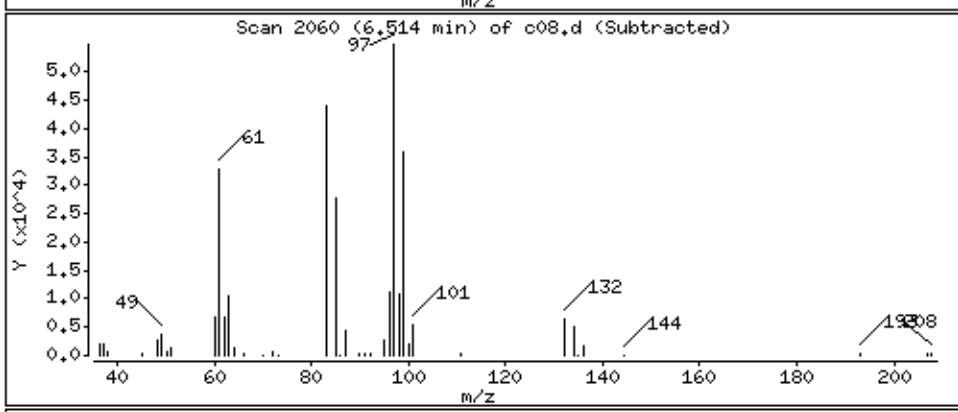
Column diameter: 0.18

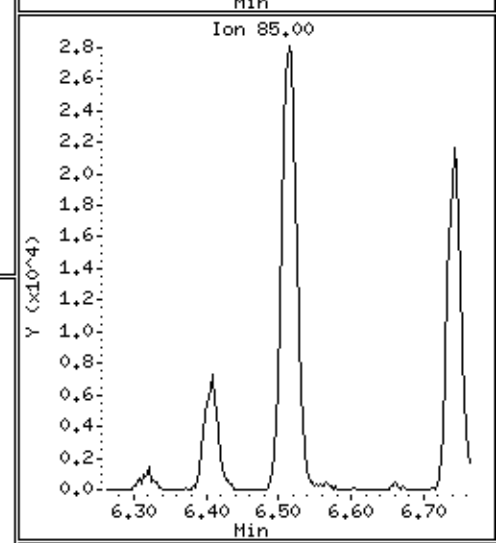
61 1,1,2-Trichloroethane

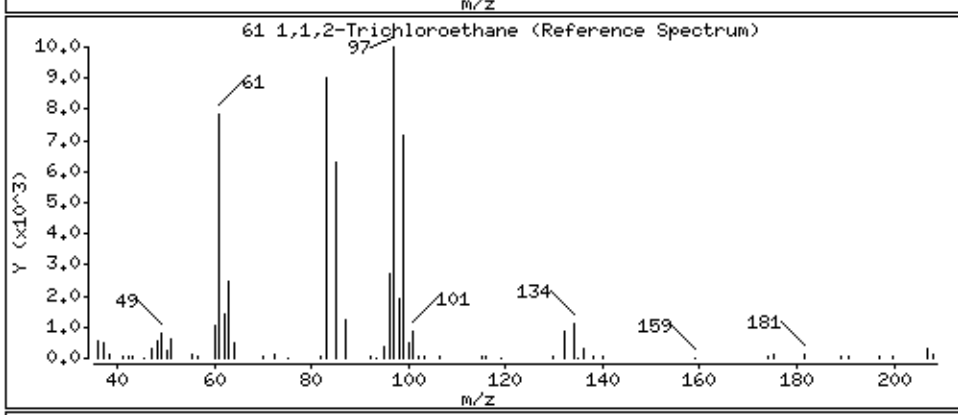
Concentration: 35.6 ppb

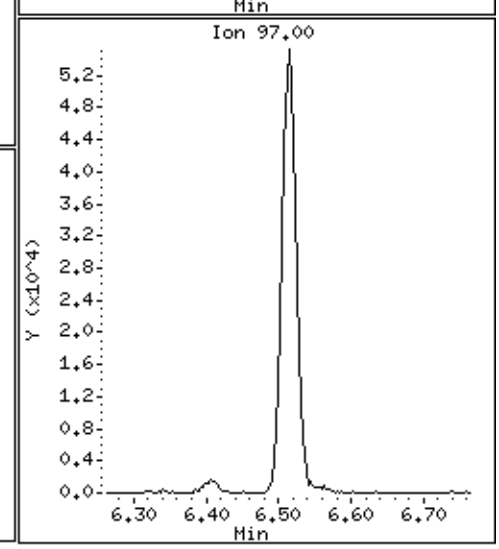


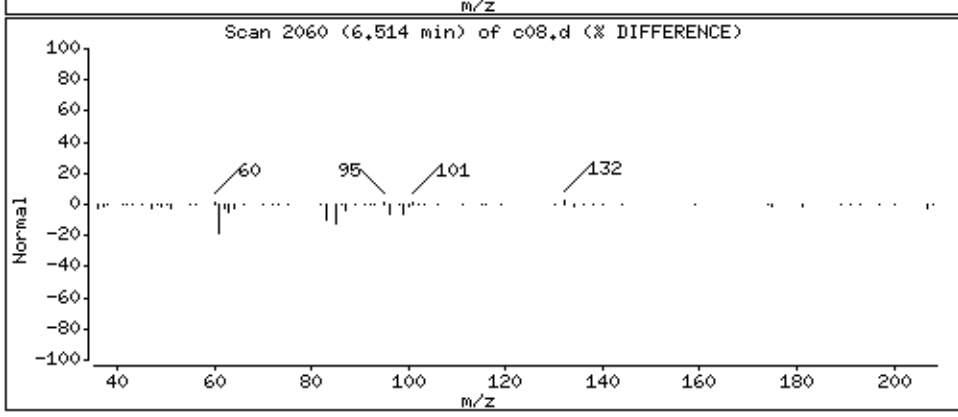












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

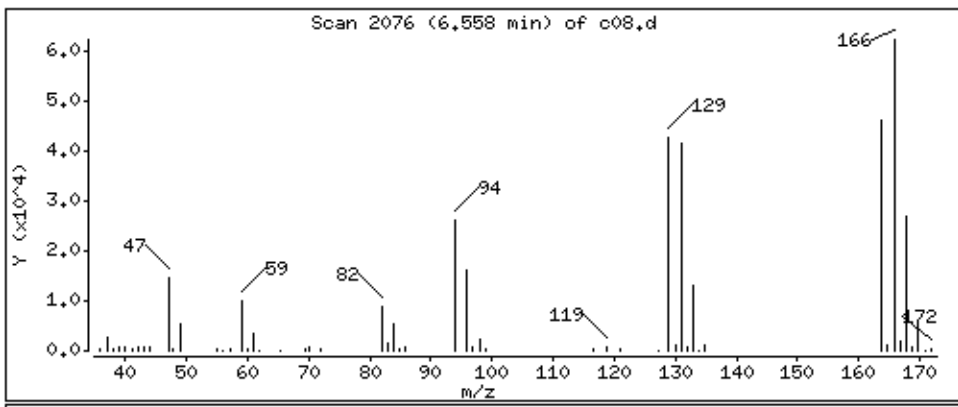
Operator: dae

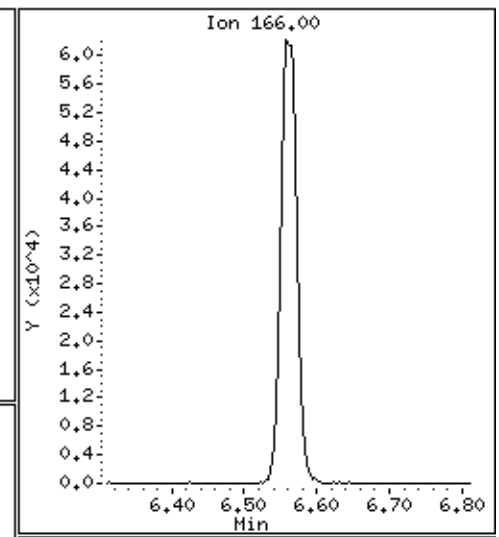
Column phase: DB-624

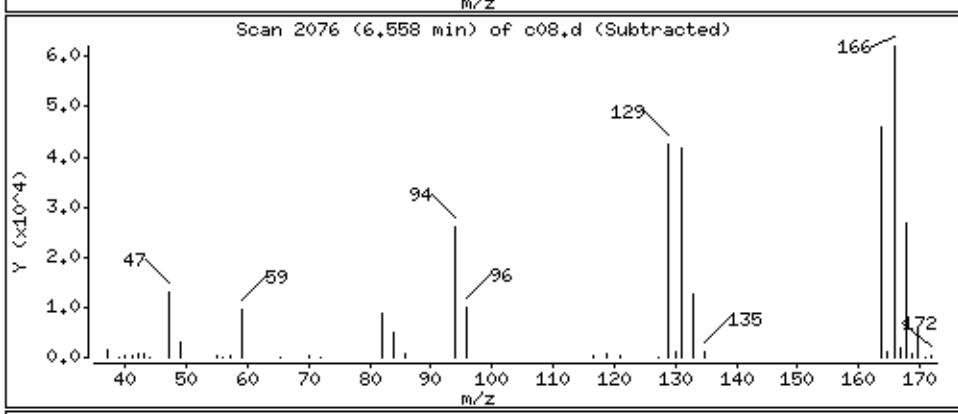
Column diameter: 0.18

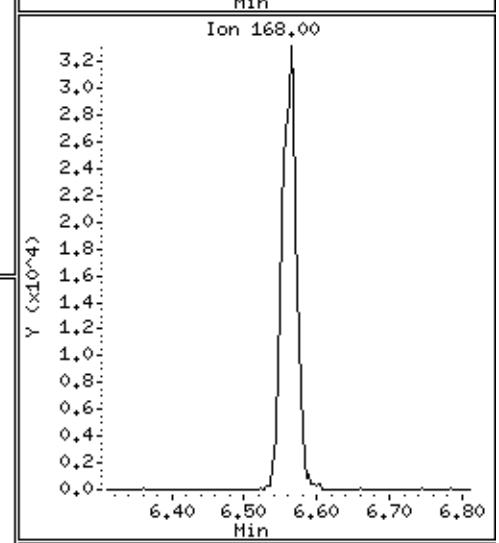
62 Tetrachloroethene

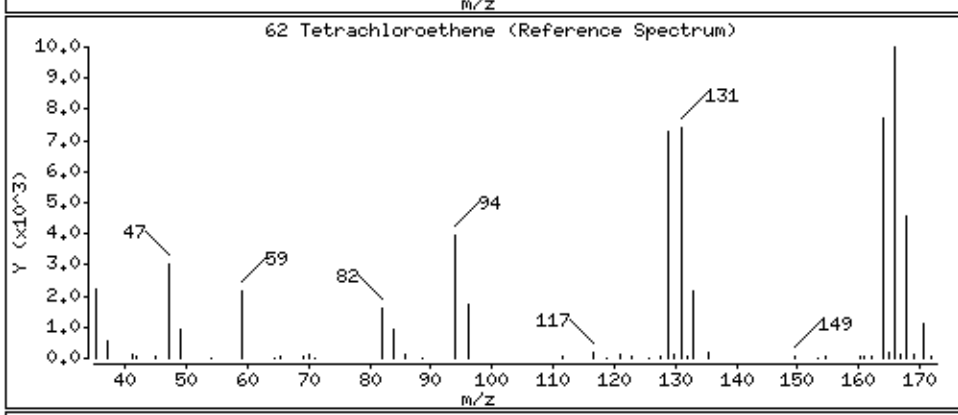
Concentration: 32.5 ppb

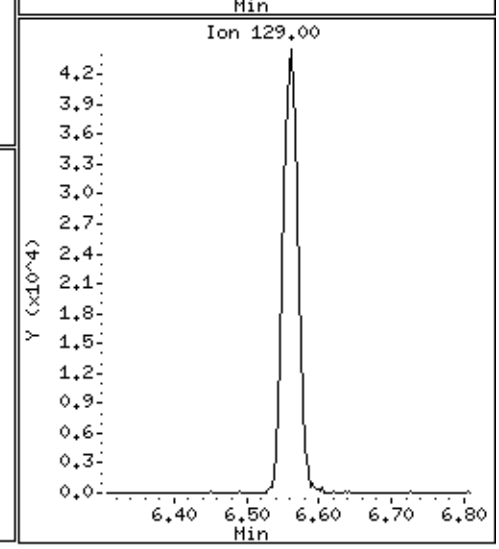


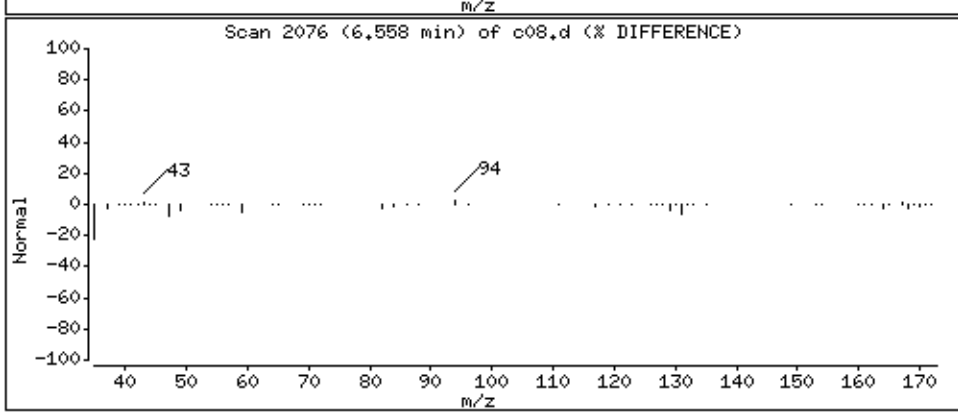












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

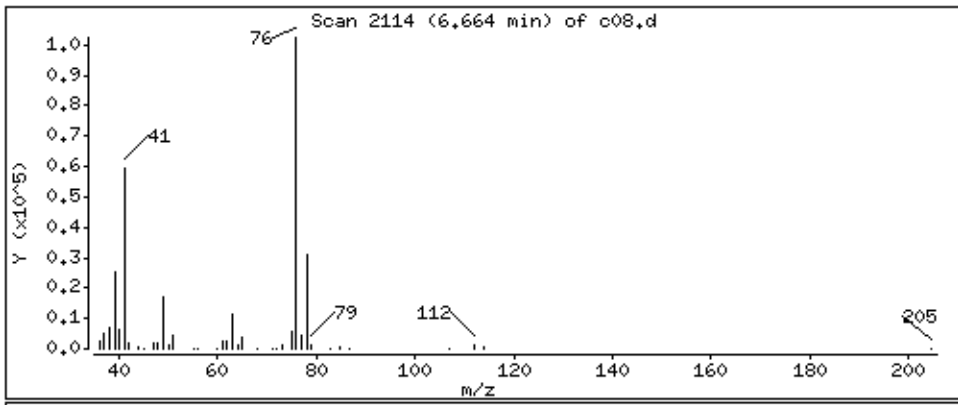
Operator: dae

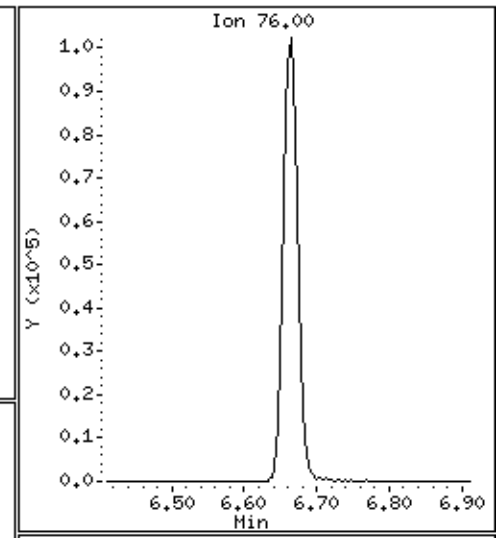
Column phase: DB-624

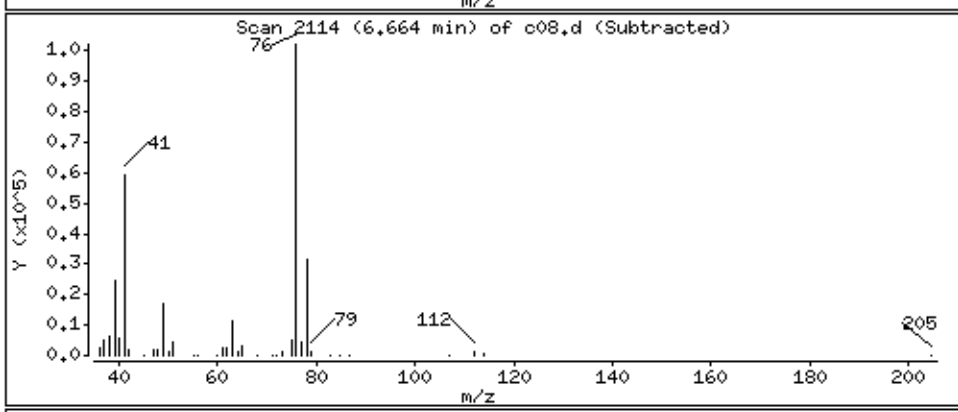
Column diameter: 0.18

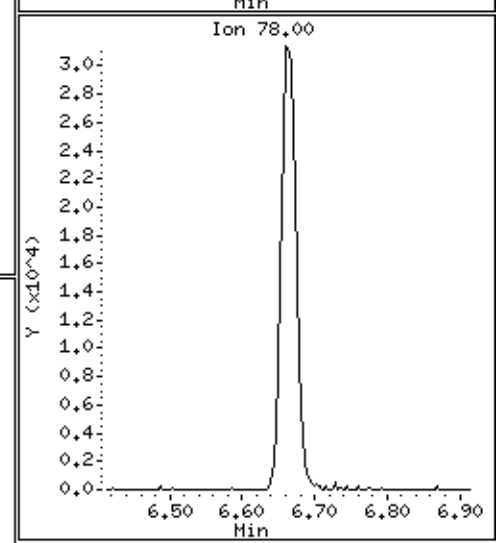
63 1,3-Dichloropropane

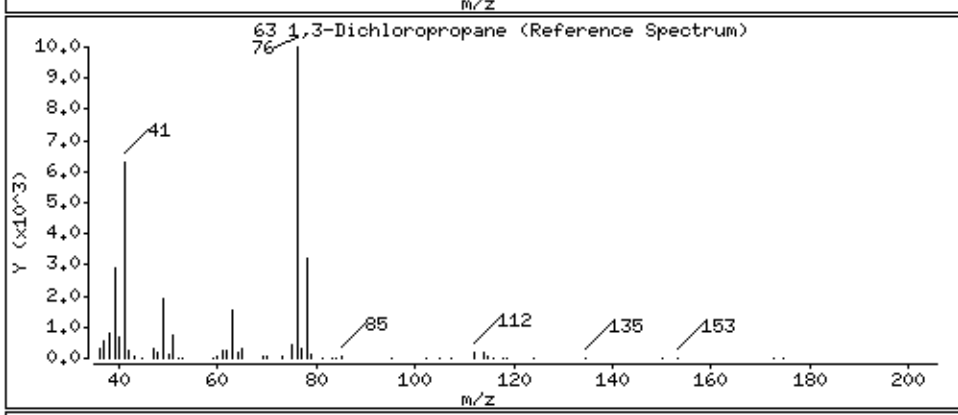
Concentration: 39.0 ppb

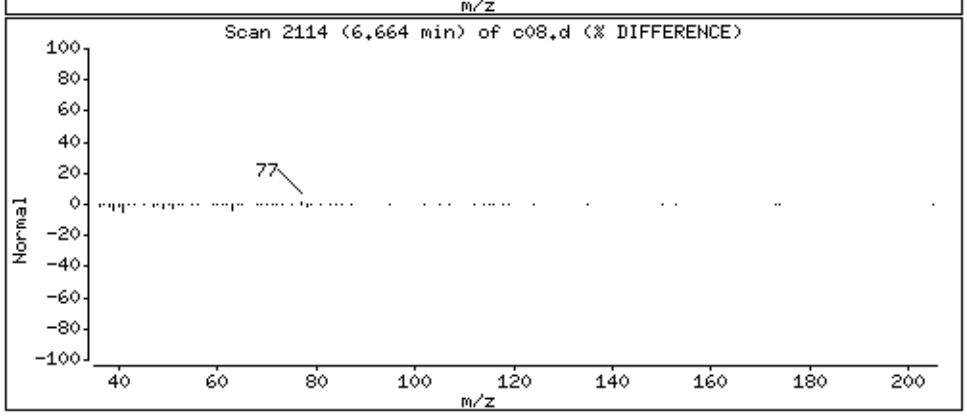












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

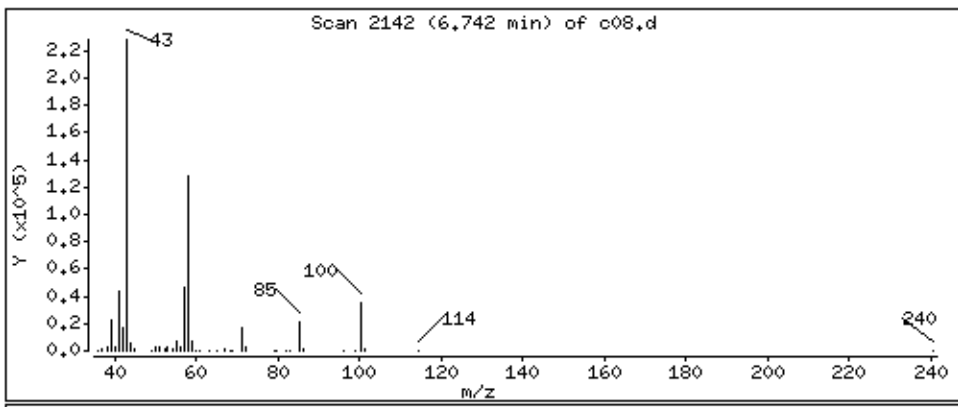
Operator: dae

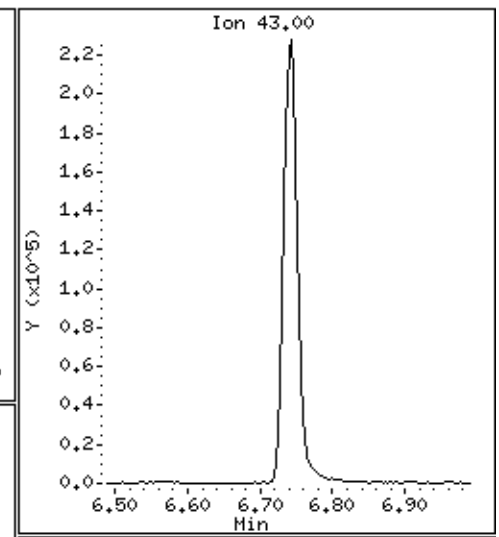
Column phase: DB-624

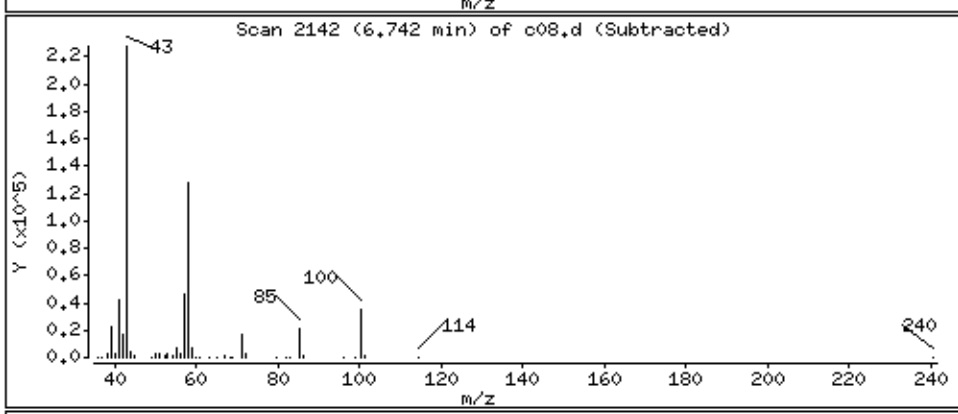
Column diameter: 0.18

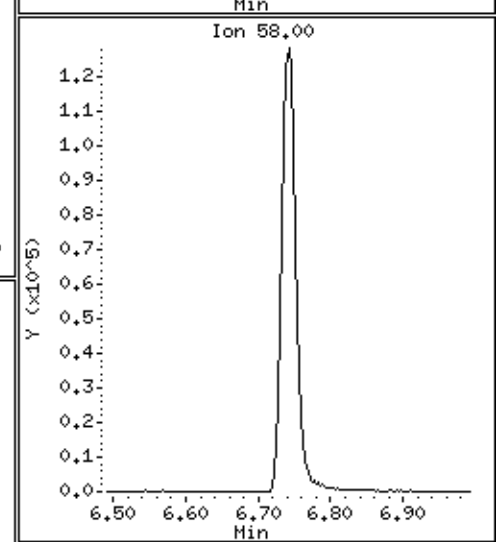
64 2-Hexanone

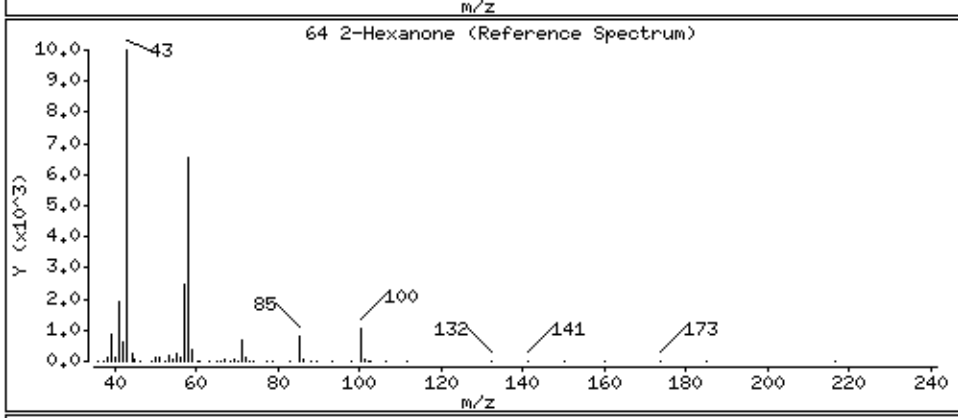
Concentration: 185 ppb

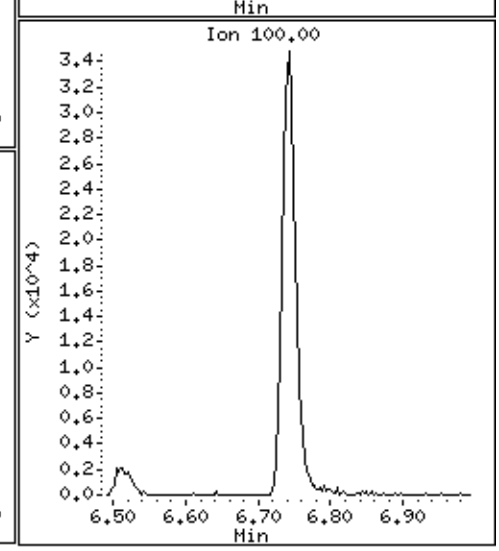


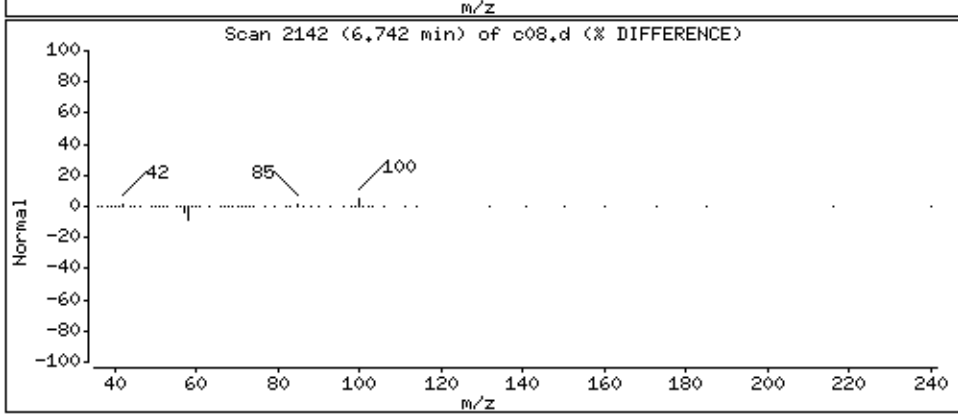












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

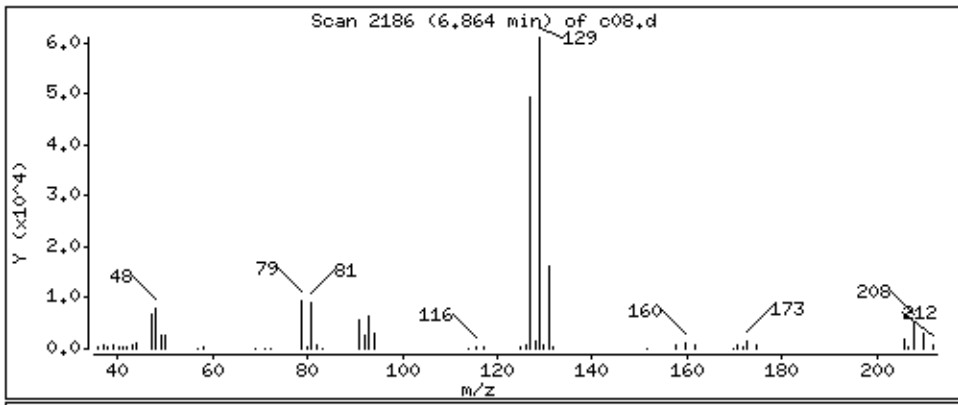
Operator: dae

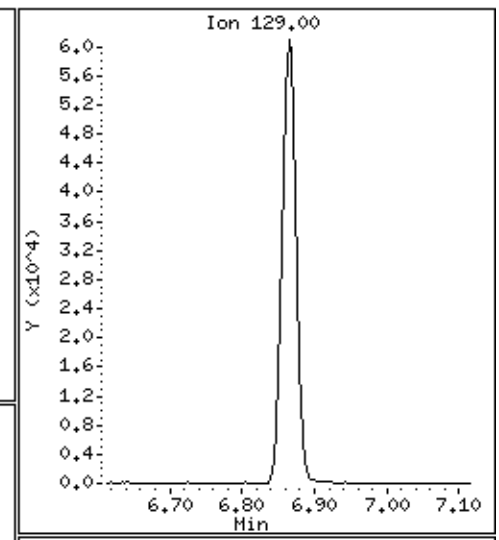
Column phase: DB-624

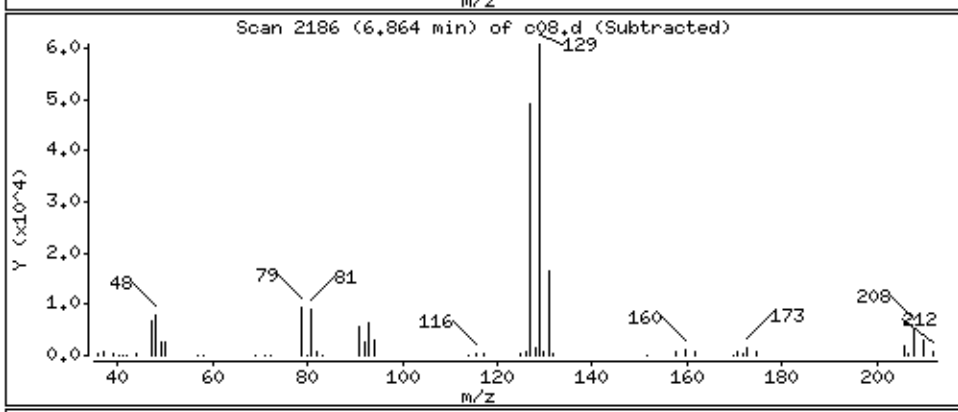
Column diameter: 0.18

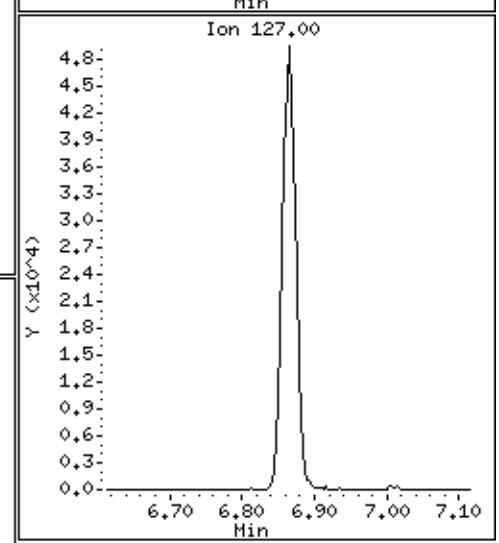
65 Dibromochloromethane

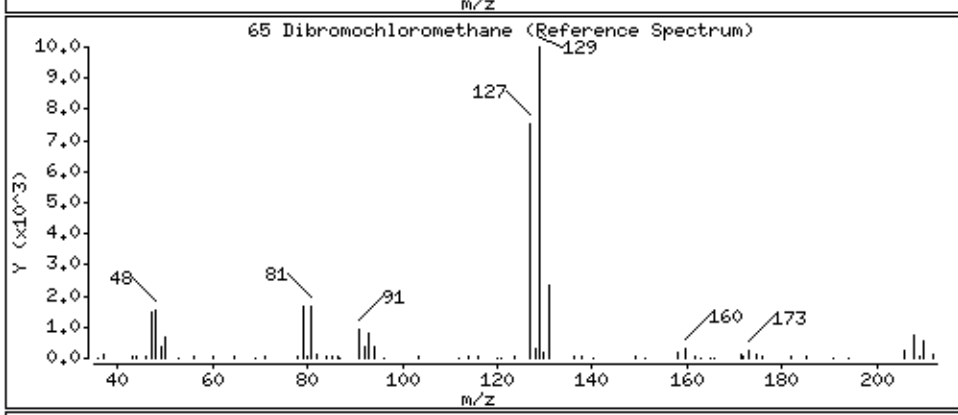
Concentration: 33.1 ppb

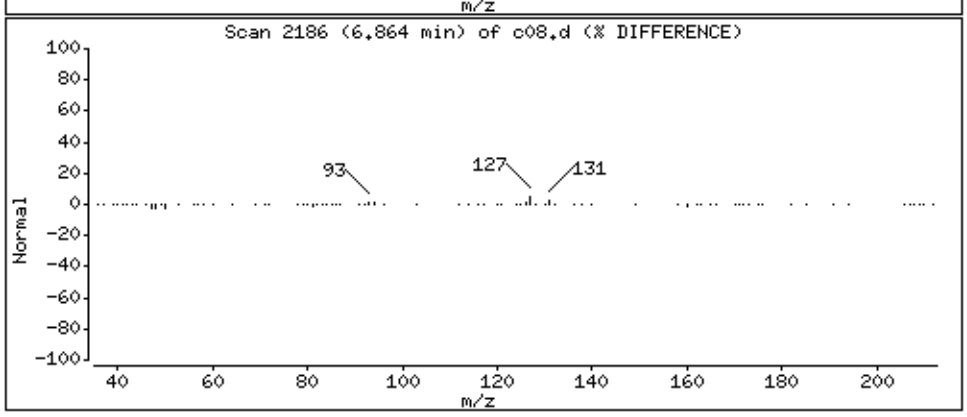












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

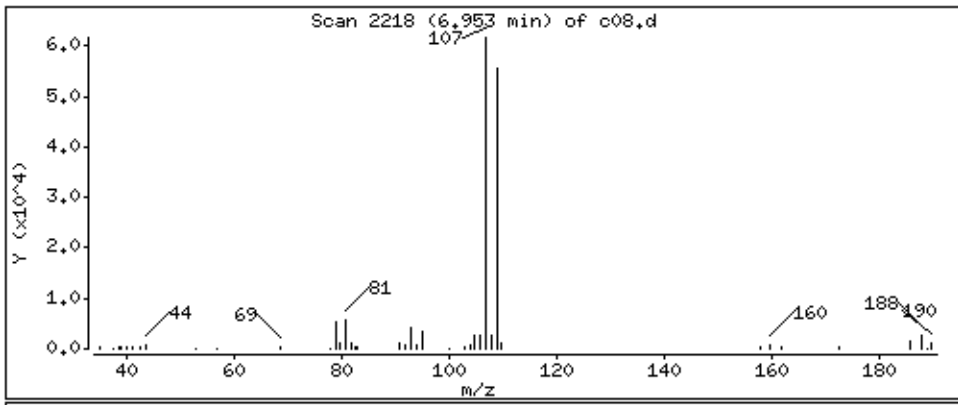
Operator: dae

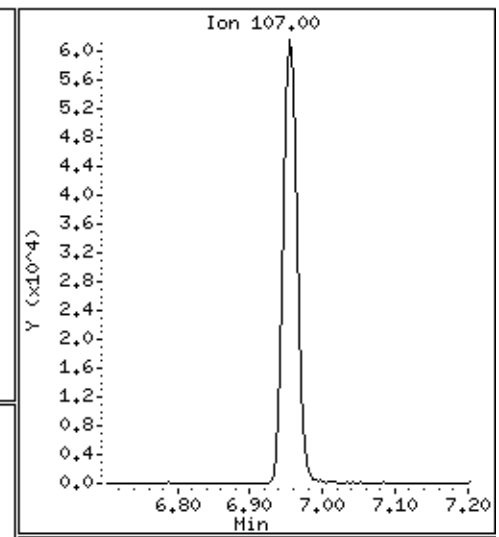
Column phase: DB-624

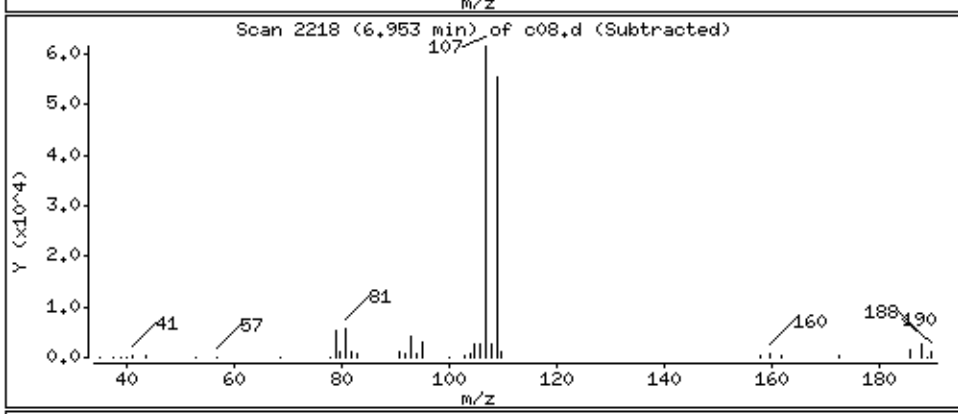
Column diameter: 0.18

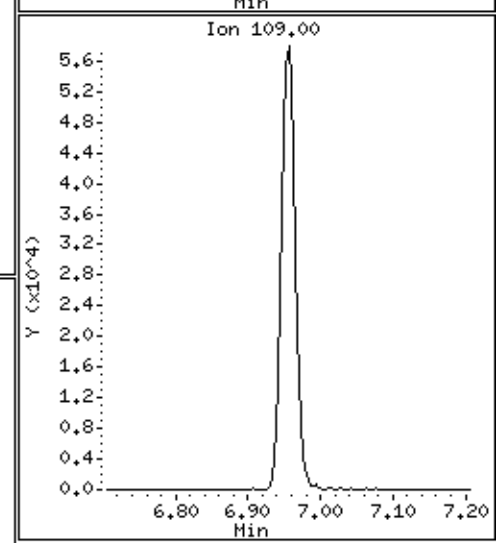
66 1,2-Dibromoethane

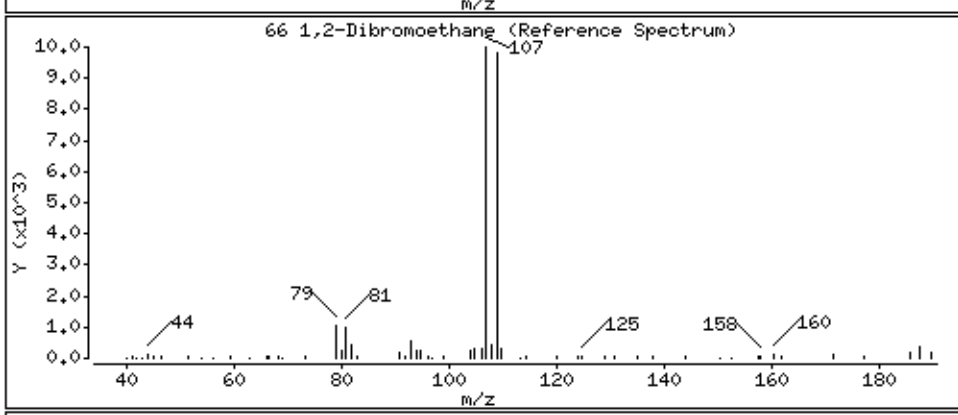
Concentration: 37.5 ppb

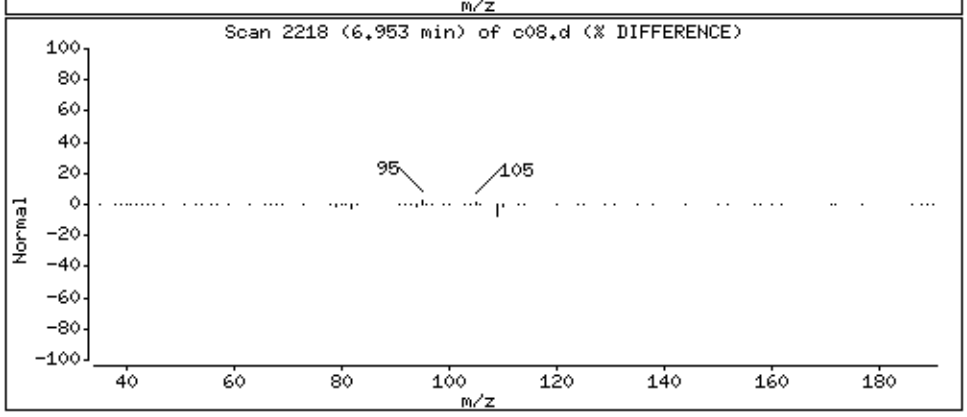












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

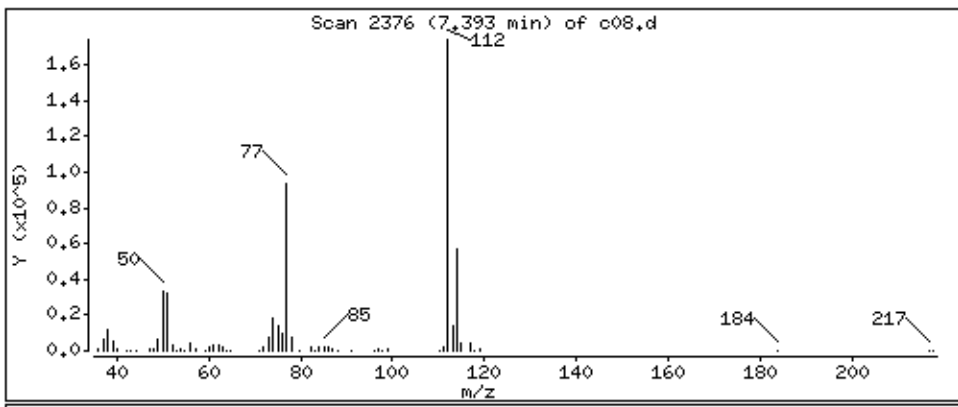
Operator: dae

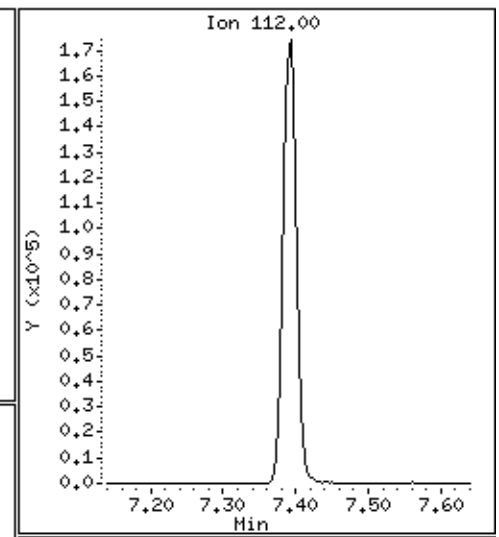
Column phase: DB-624

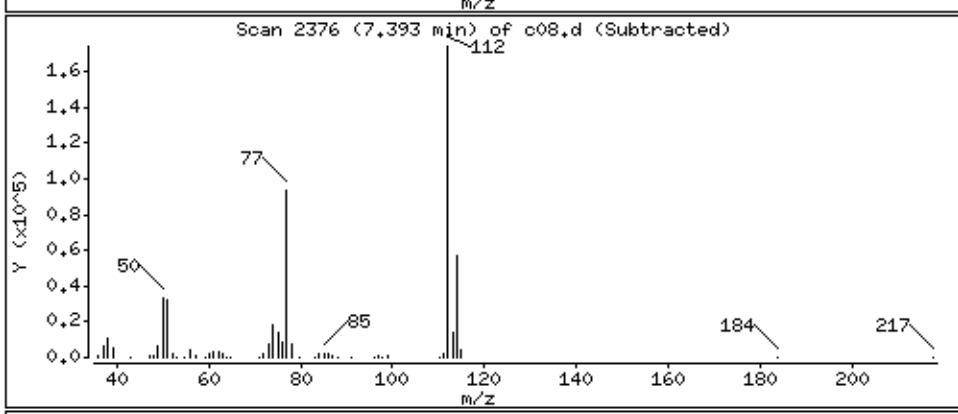
Column diameter: 0.18

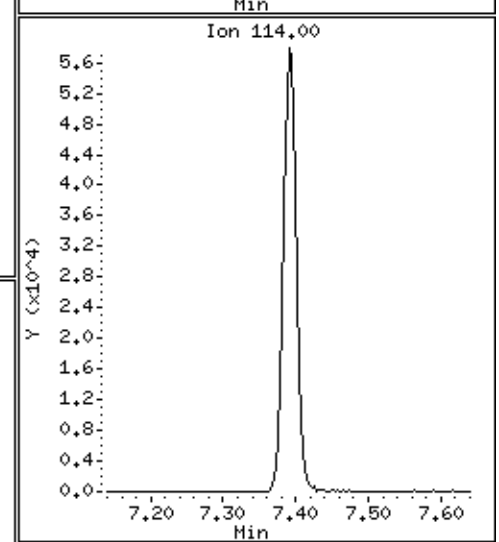
68 Chlorobenzene

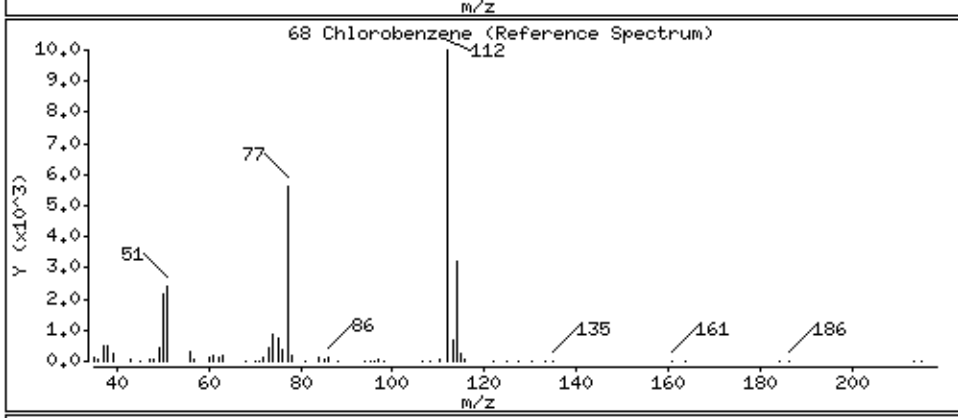
Concentration: 36.5 ppb

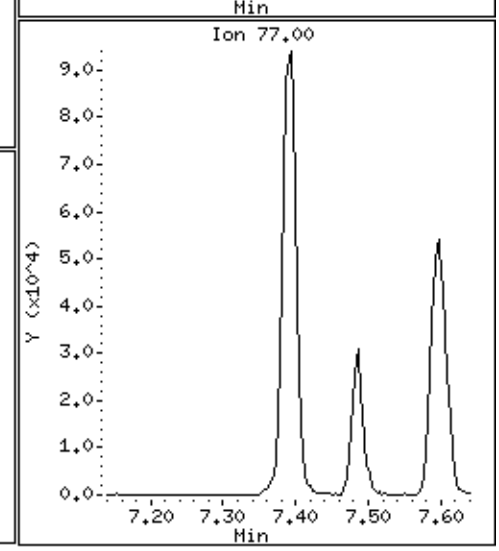


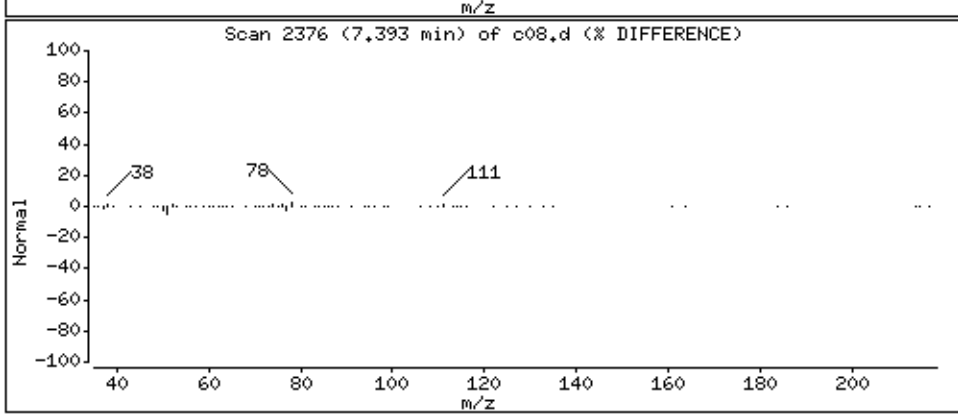












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

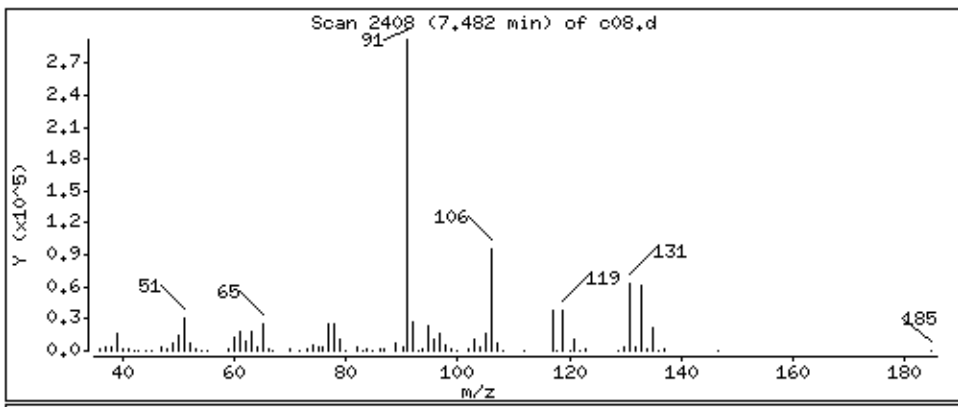
Operator: dae

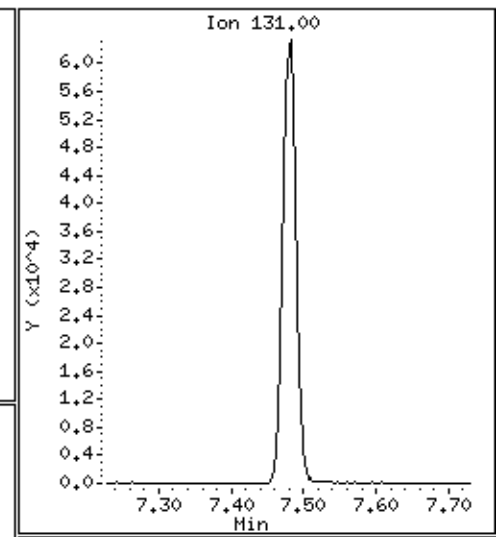
Column phase: DB-624

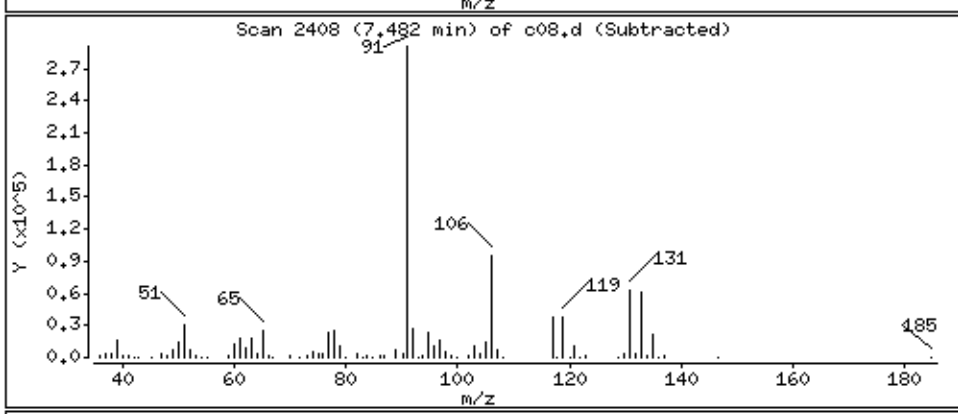
Column diameter: 0.18

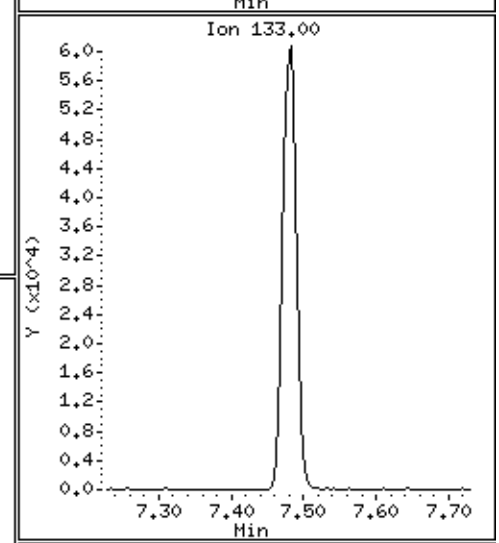
69 1,1,1,2-Tetrachloroethane

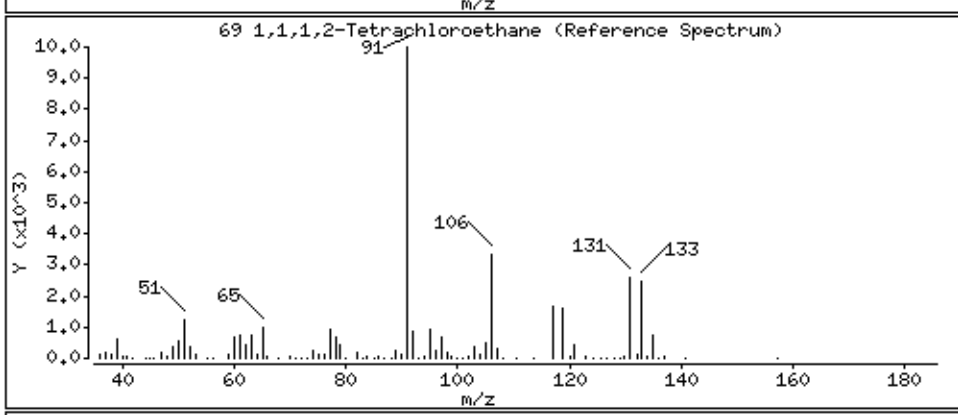
Concentration: 34.7 ppb

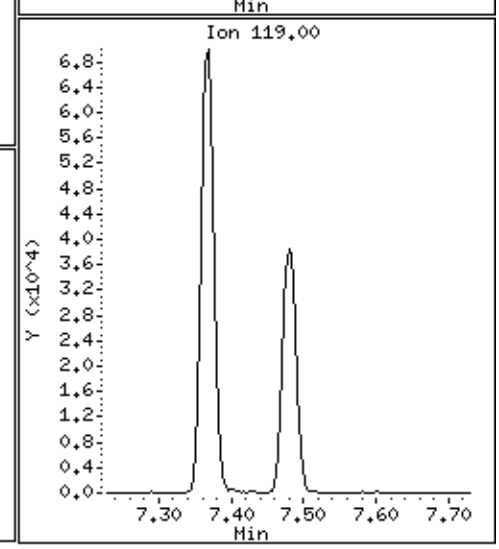


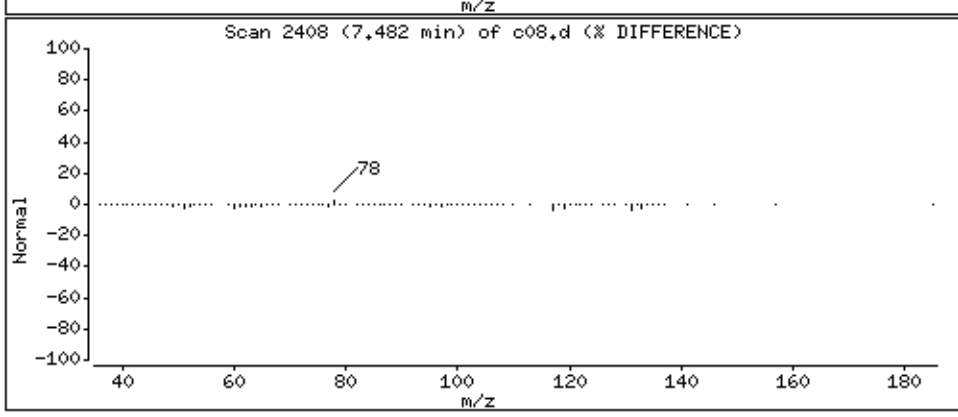












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

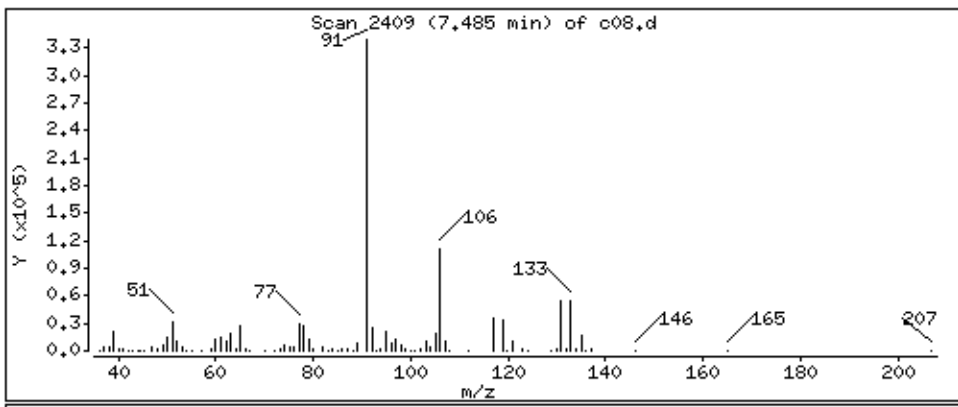
Operator: dae

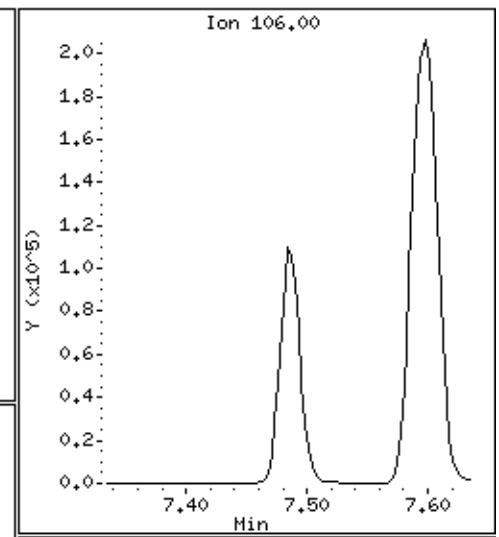
Column phase: DB-624

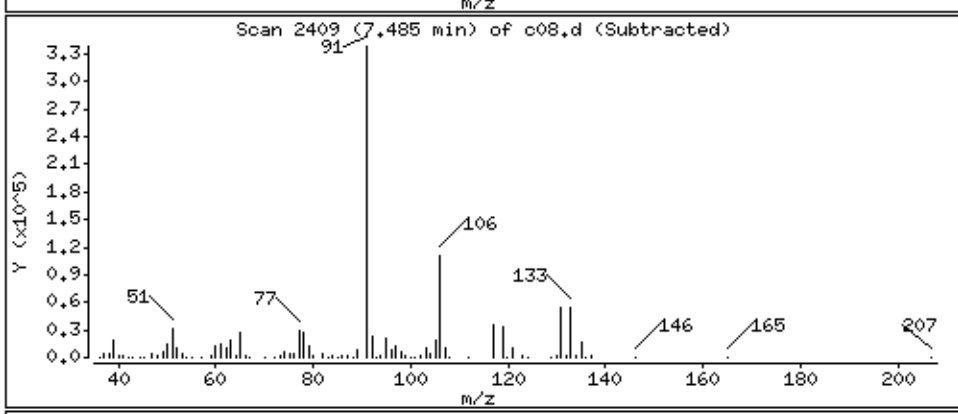
Column diameter: 0.18

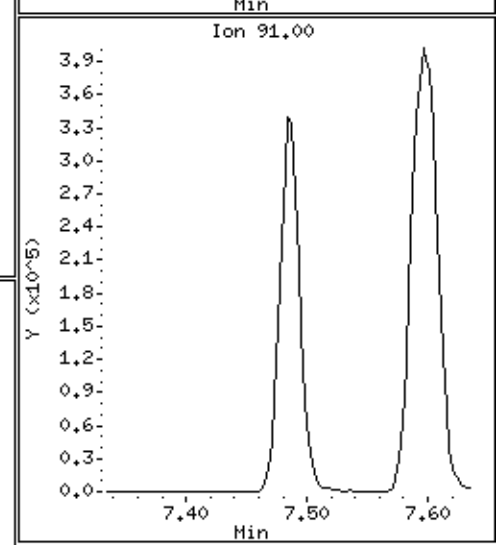
70 Ethylbenzene

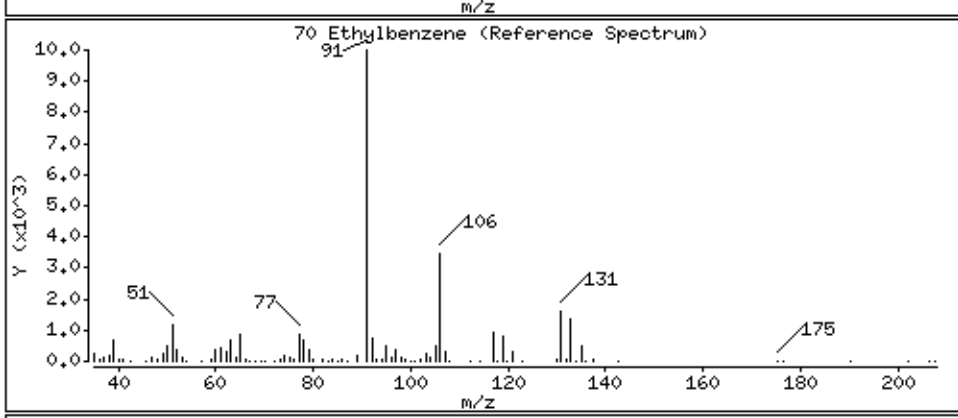
Concentration: 40.1 ppb

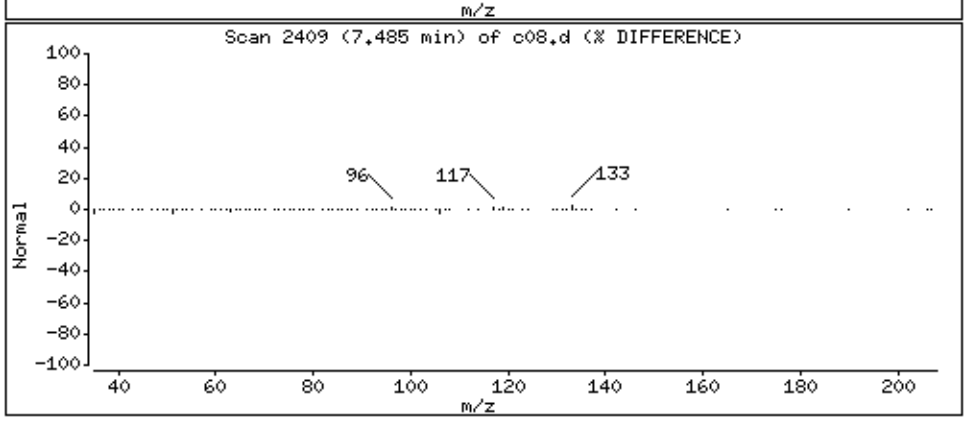












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

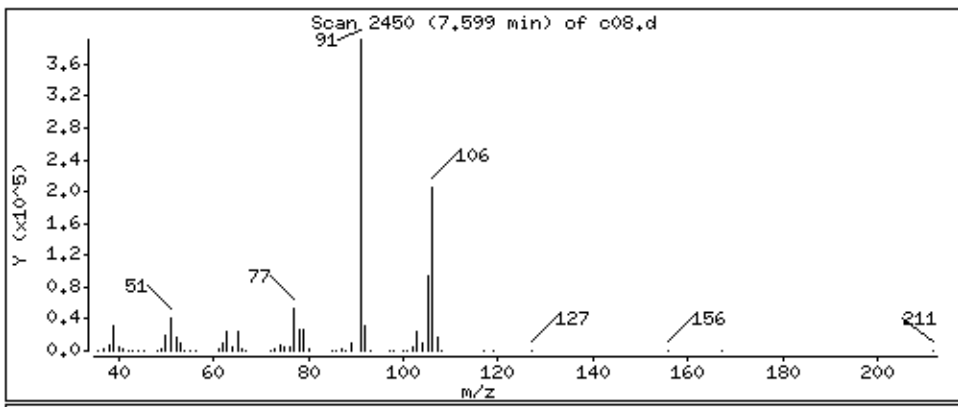
Operator: dae

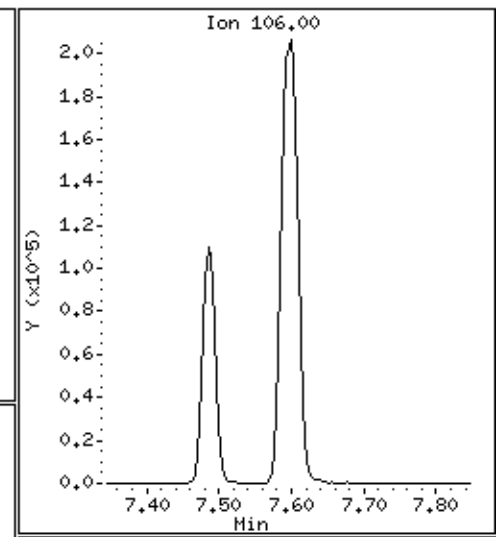
Column phase: DB-624

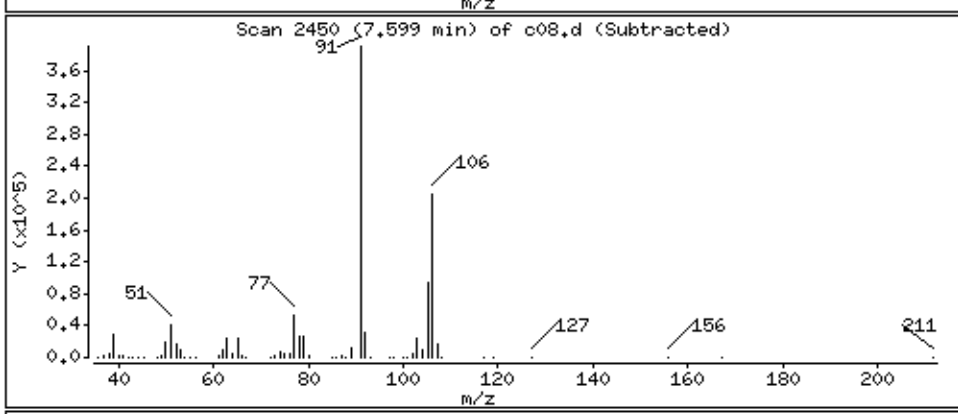
Column diameter: 0.18

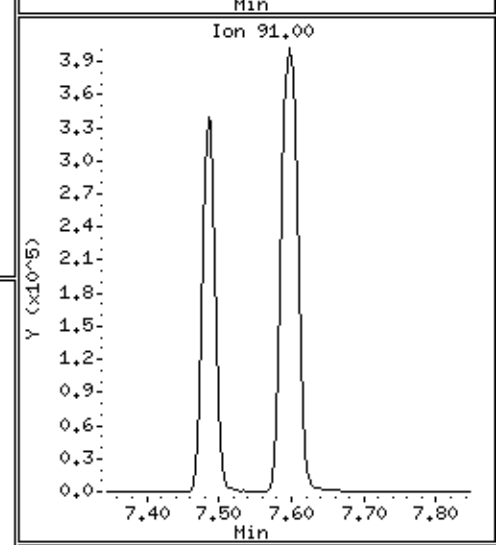
71 m&p-Xylene

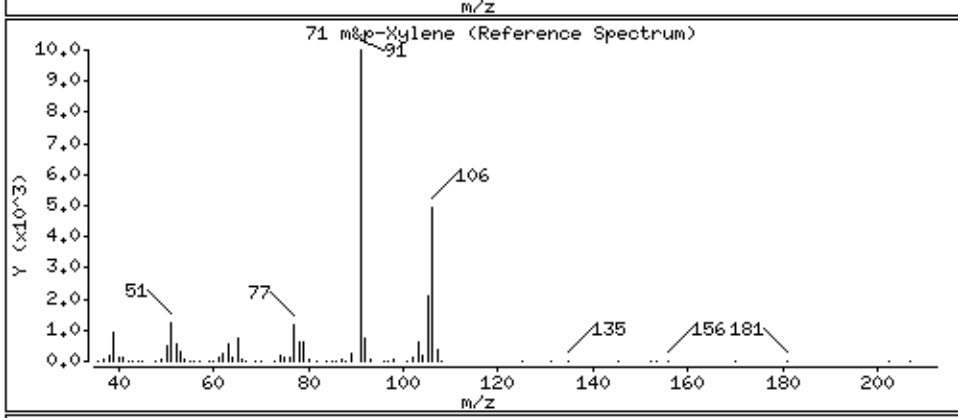
Concentration: 83.6 ppb

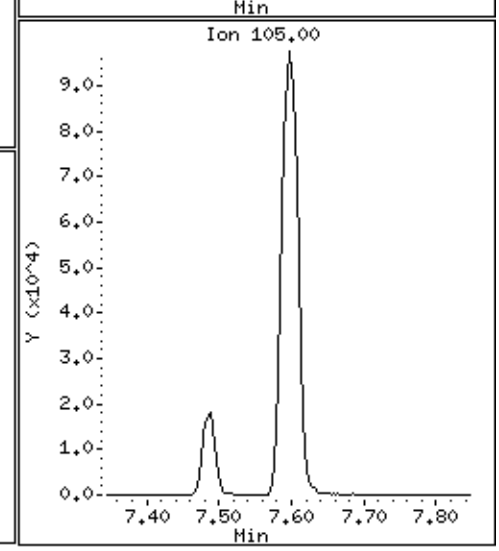


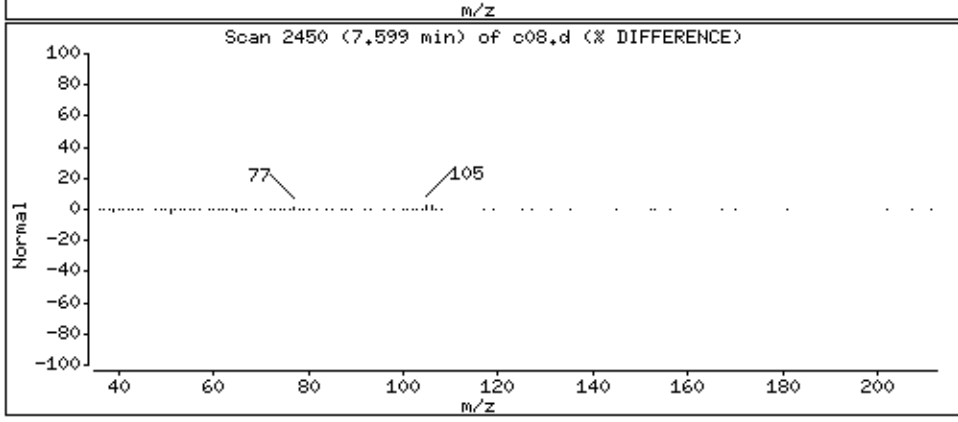












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

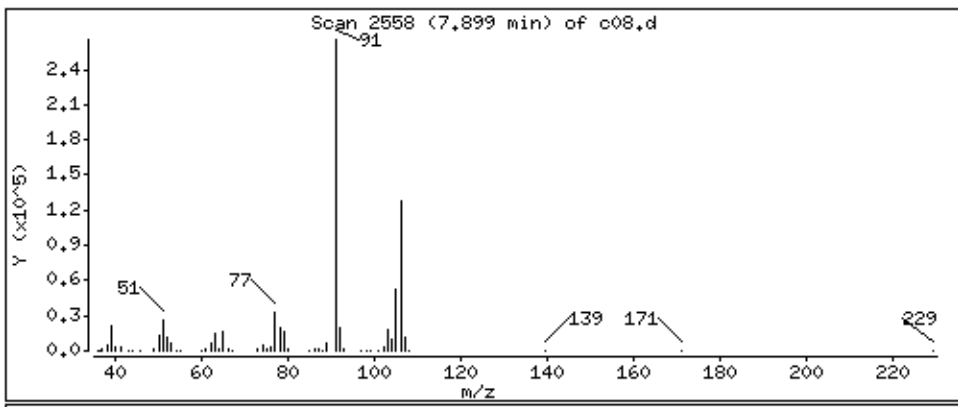
Operator: dae

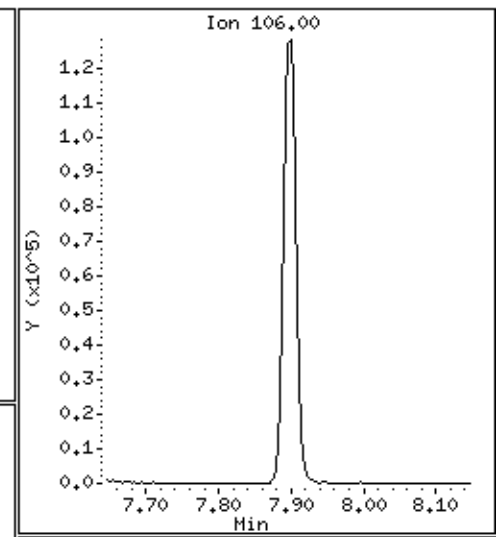
Column phase: DB-624

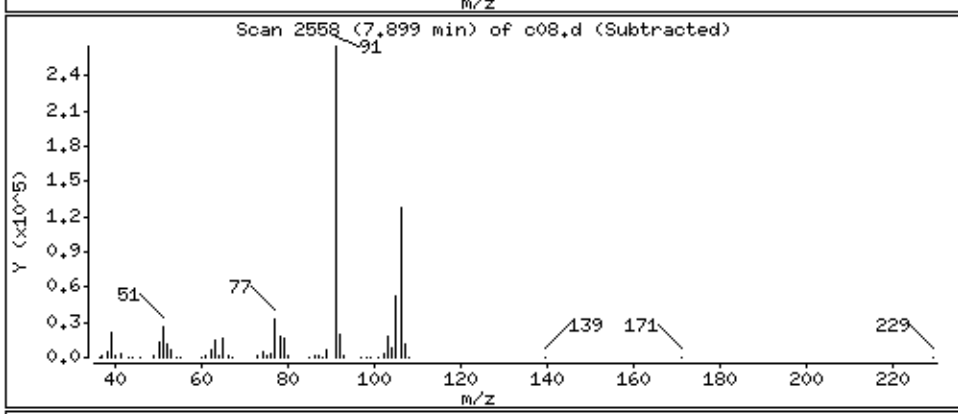
Column diameter: 0.18

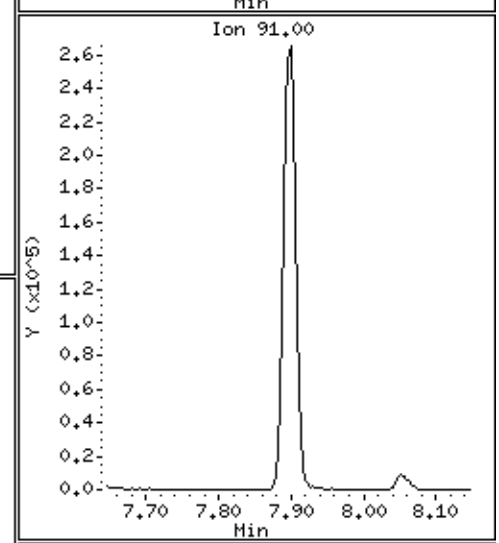
72 o-Xylene

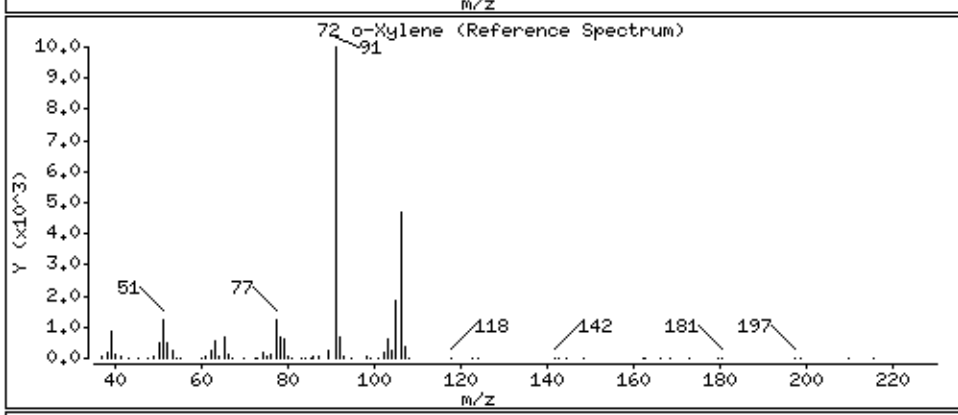
Concentration: 40.9 ppb

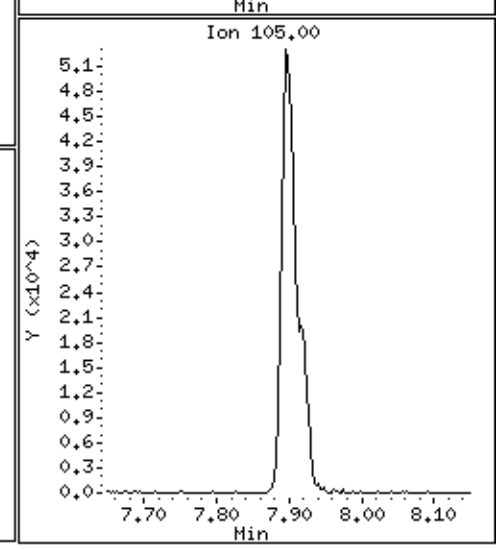


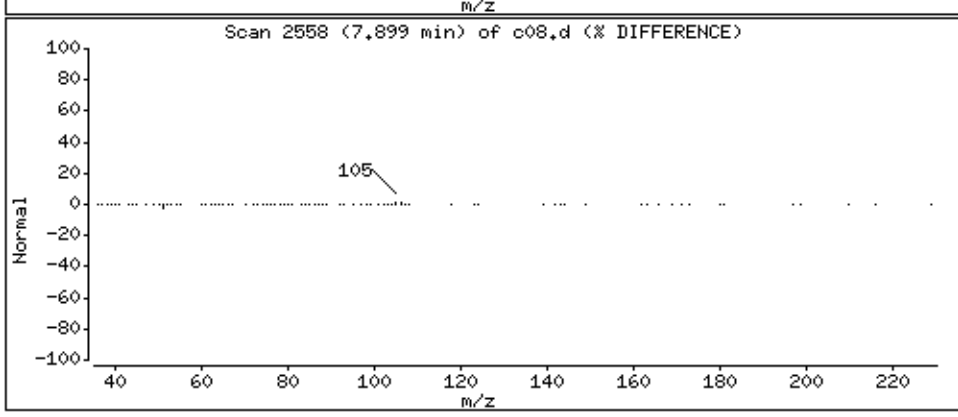












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

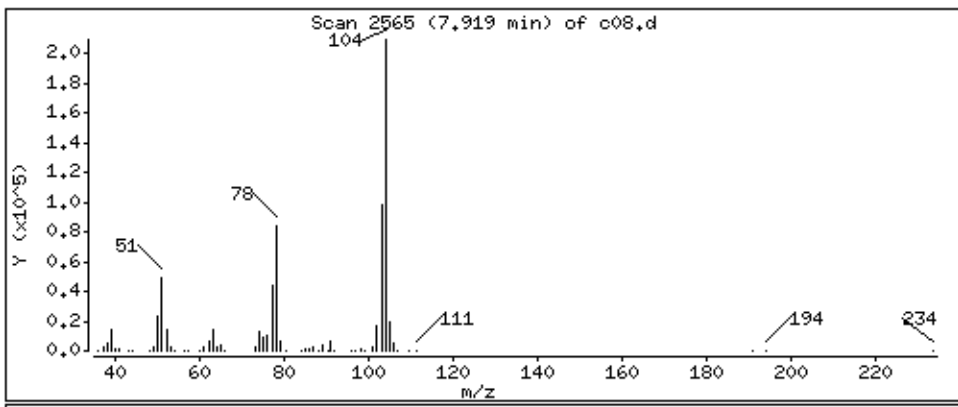
Operator: dae

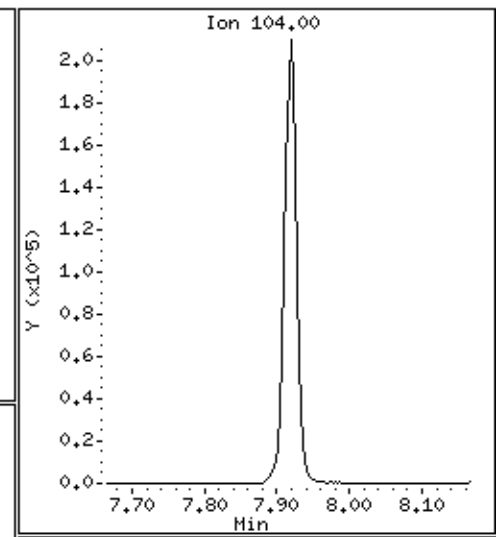
Column phase: DB-624

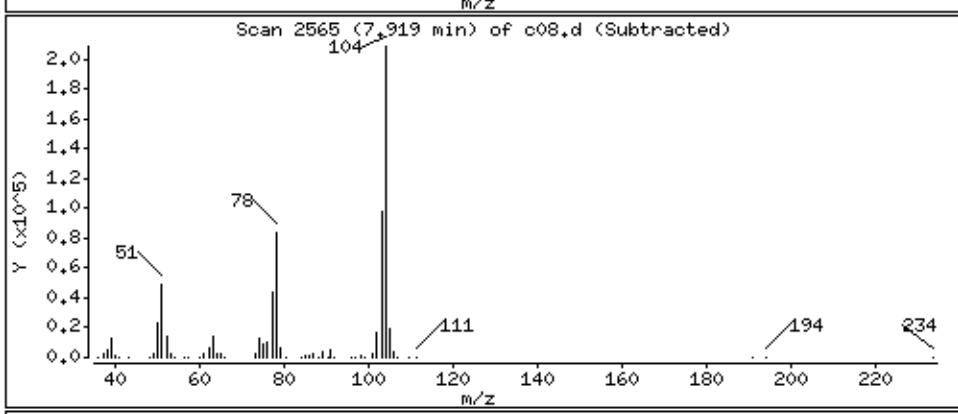
Column diameter: 0.18

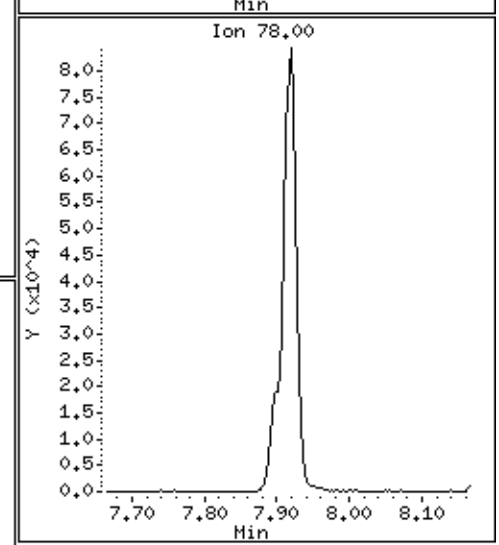
73 Styrene

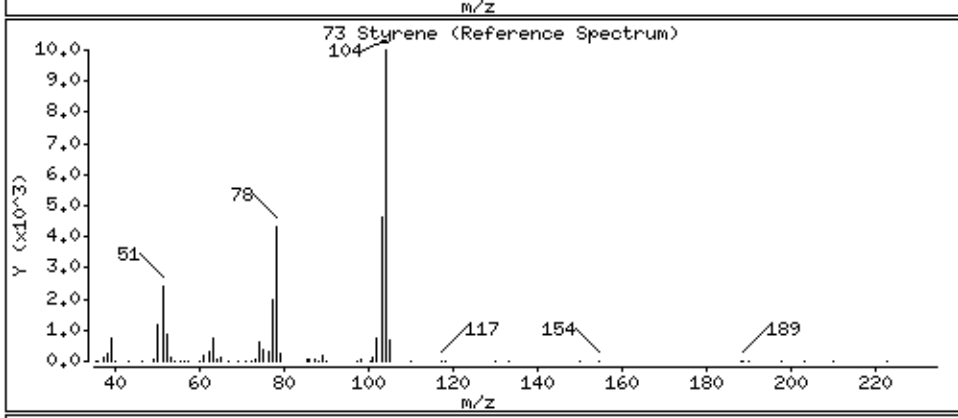
Concentration: 38.1 ppb

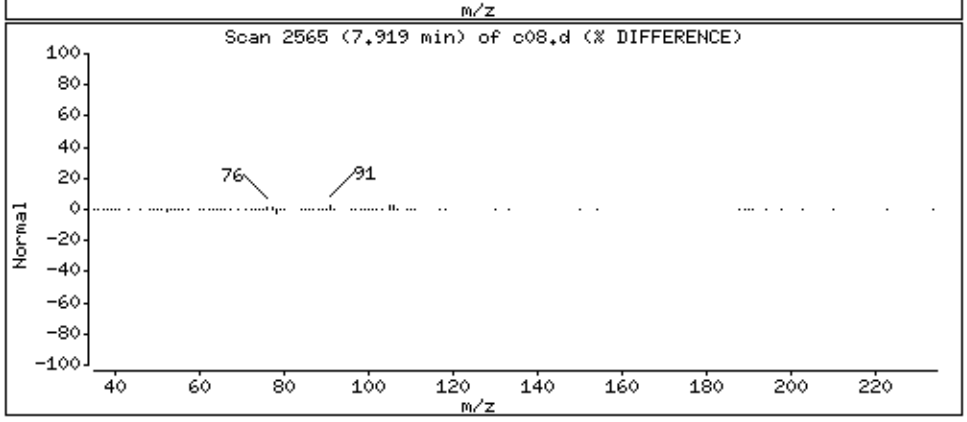












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

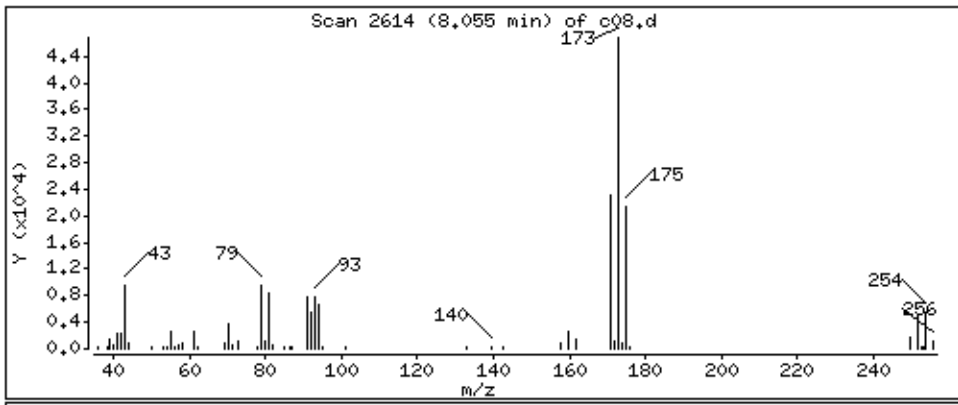
Operator: dae

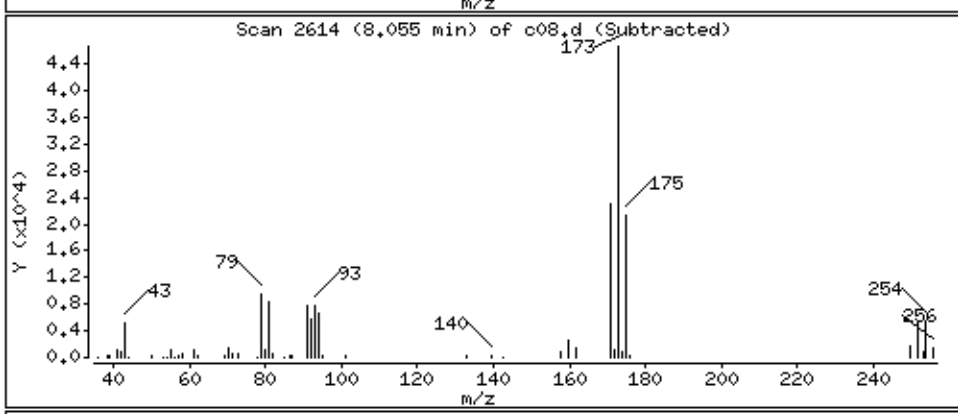
Column phase: DB-624

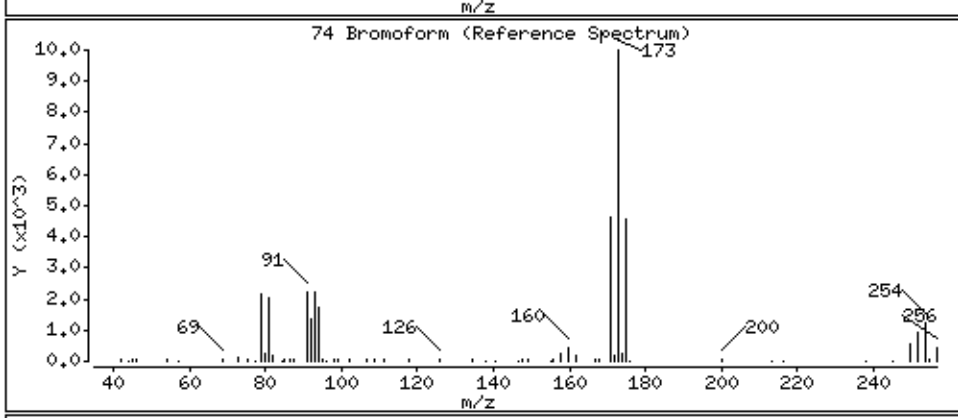
Column diameter: 0.18

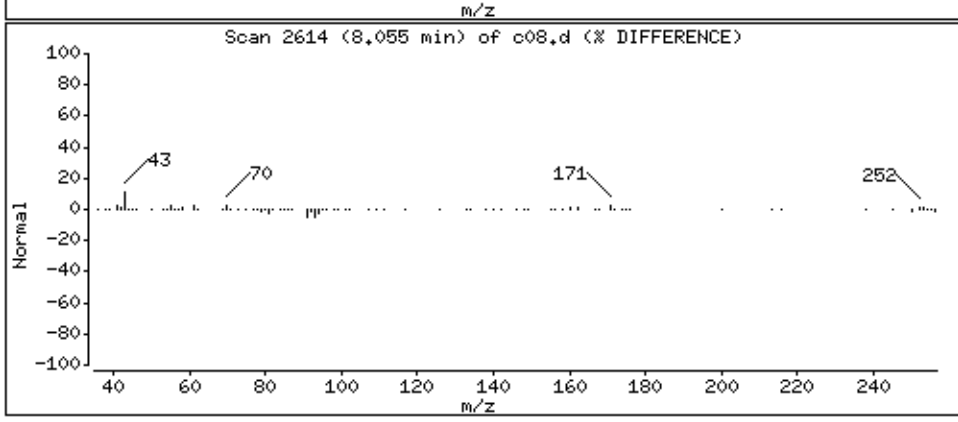
74 Bromoform

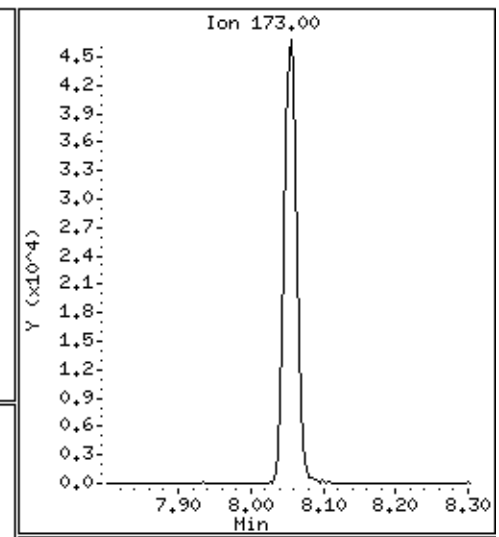
Concentration: 29.1 ppb

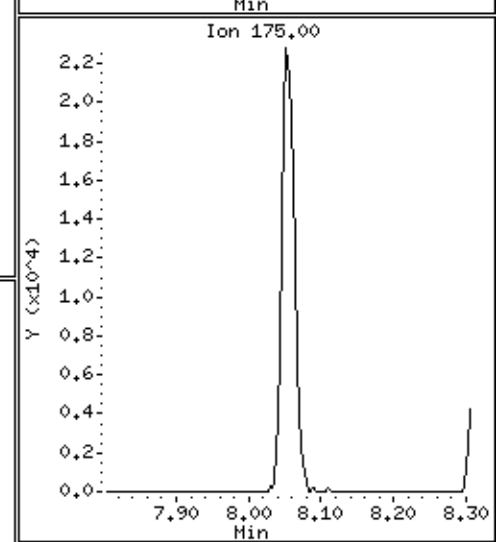


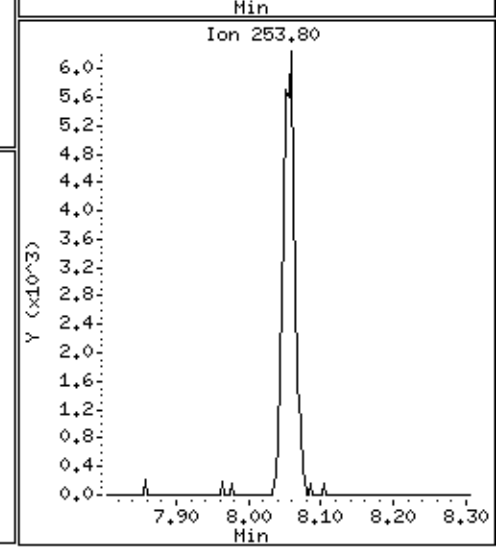












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

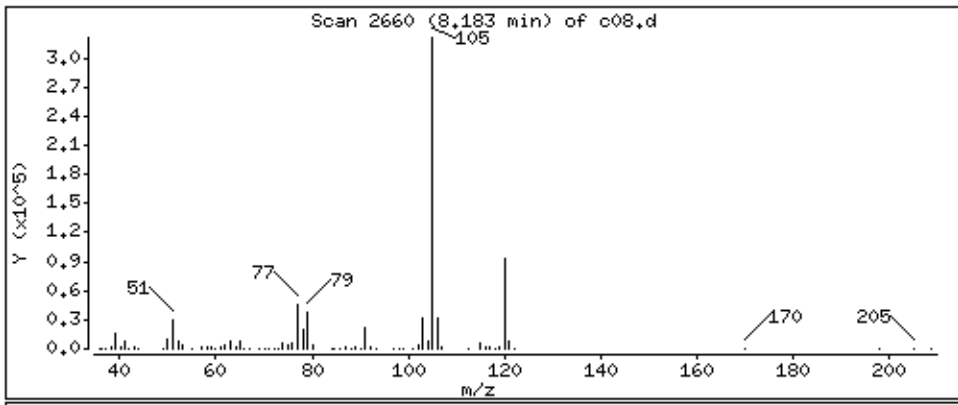
Operator: dae

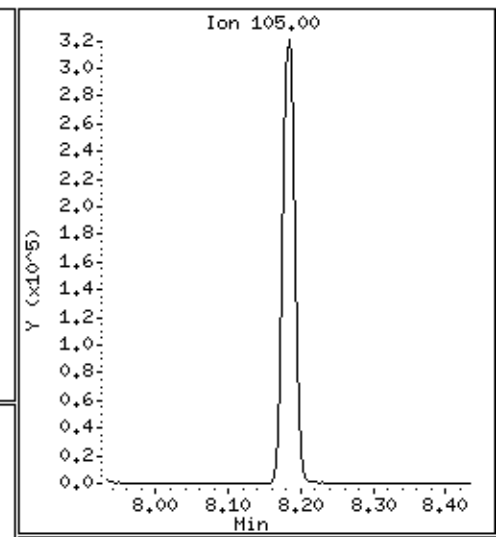
Column phase: DB-624

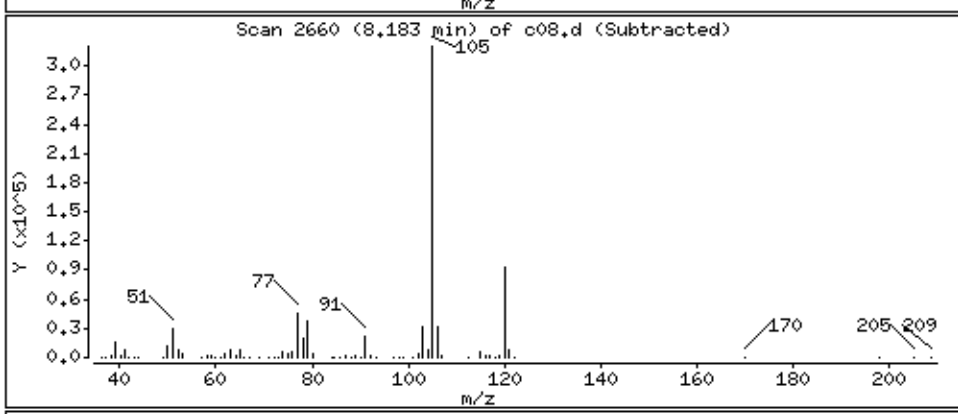
Column diameter: 0.18

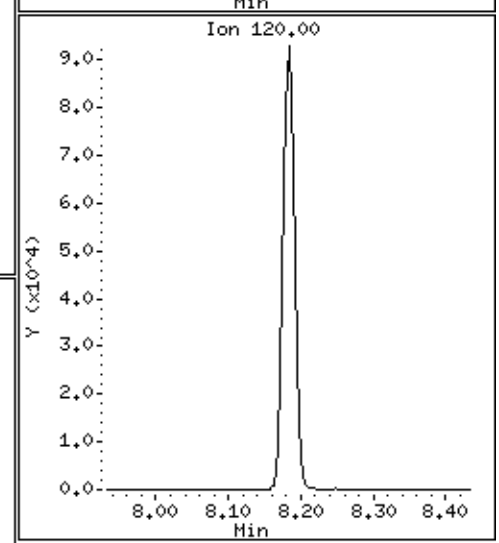
75 Isopropylbenzene

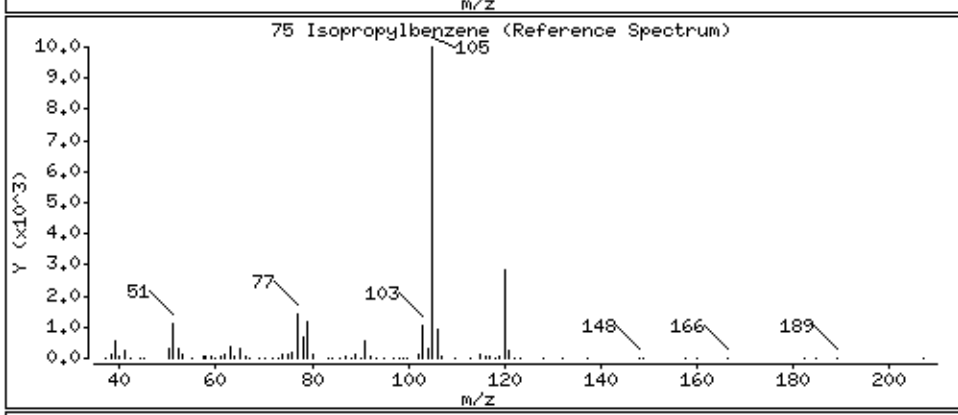
Concentration: 39.0 ppb

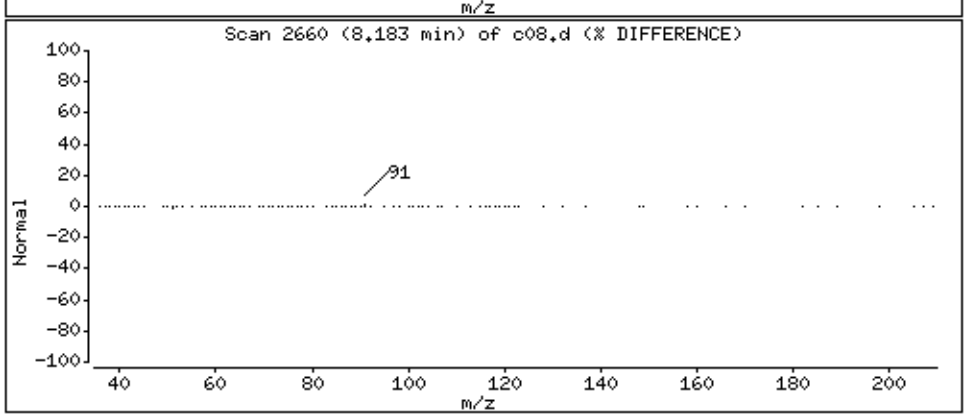












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

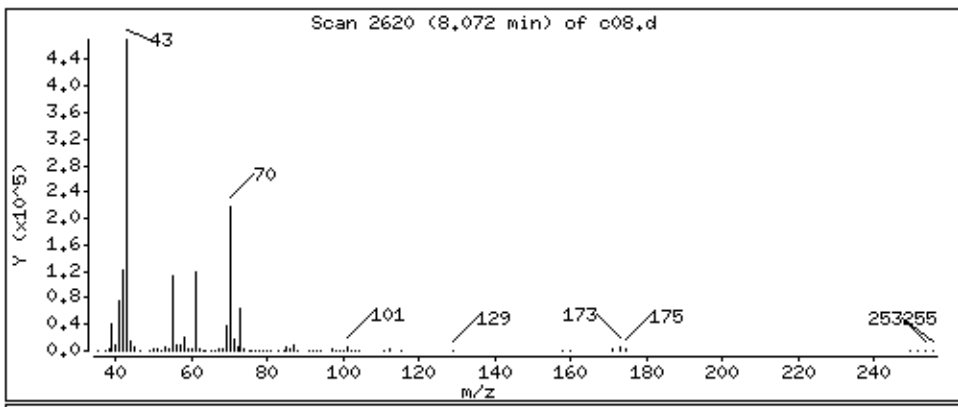
Operator: dae

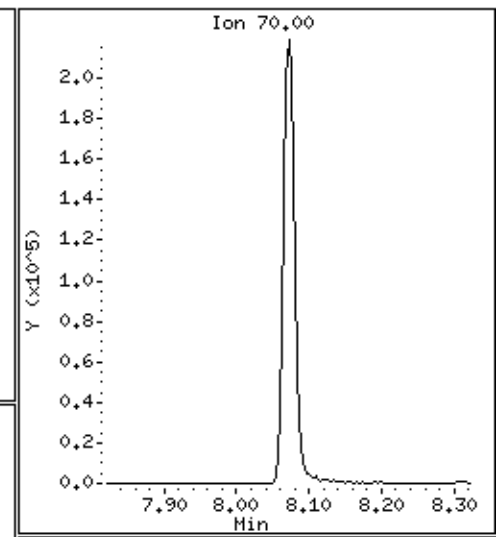
Column phase: DB-624

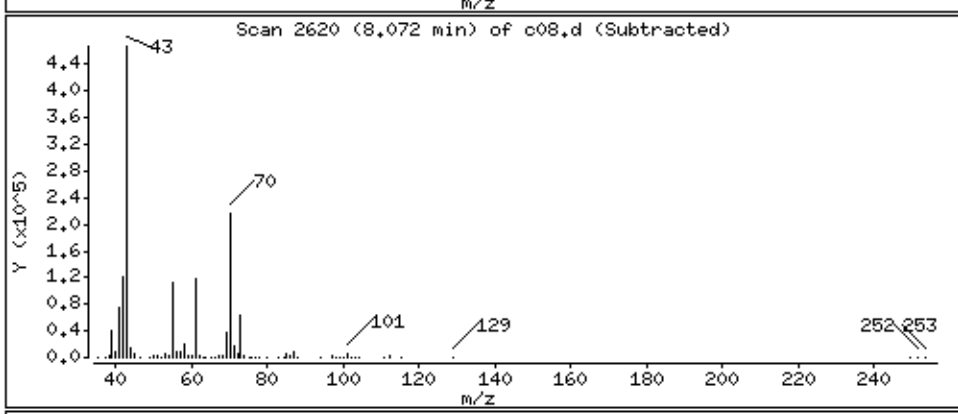
Column diameter: 0.18

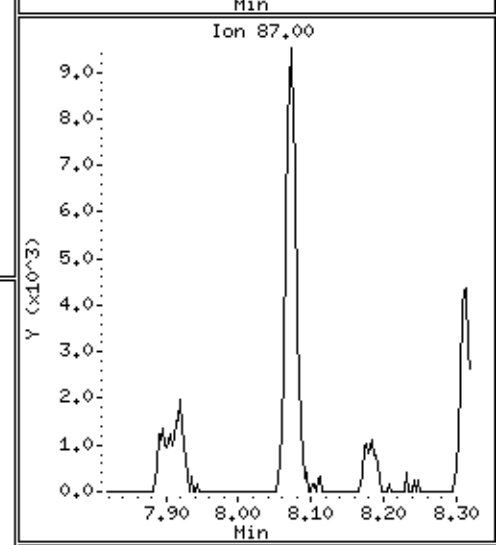
77 n-amyl acetate

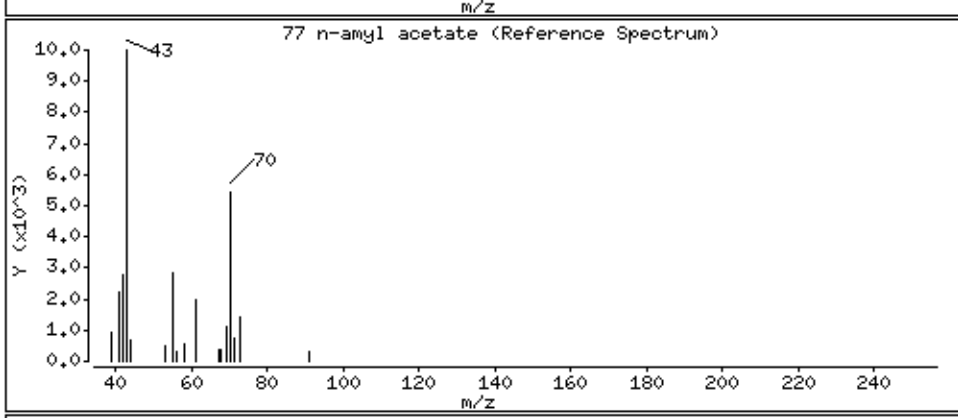
Concentration: 128 ppb

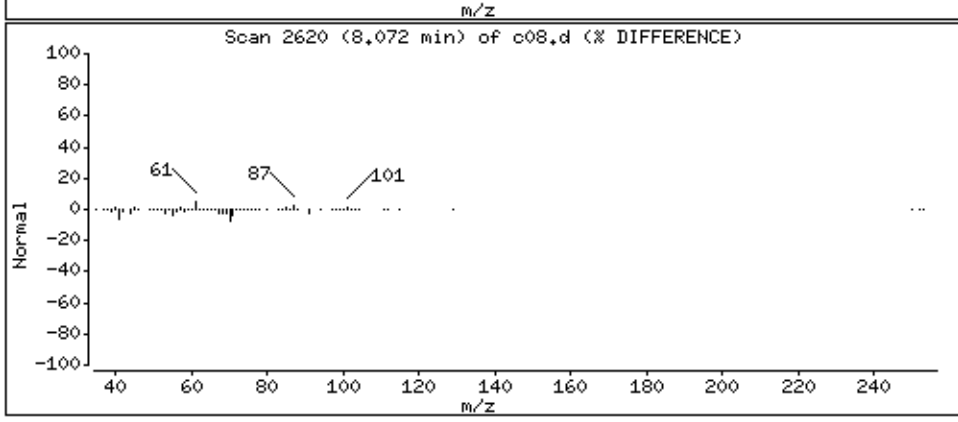


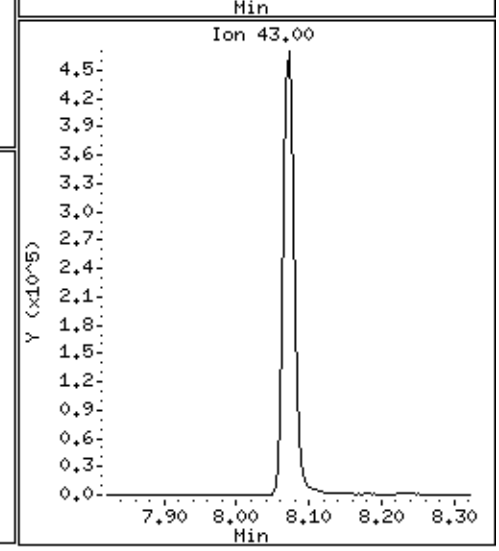












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

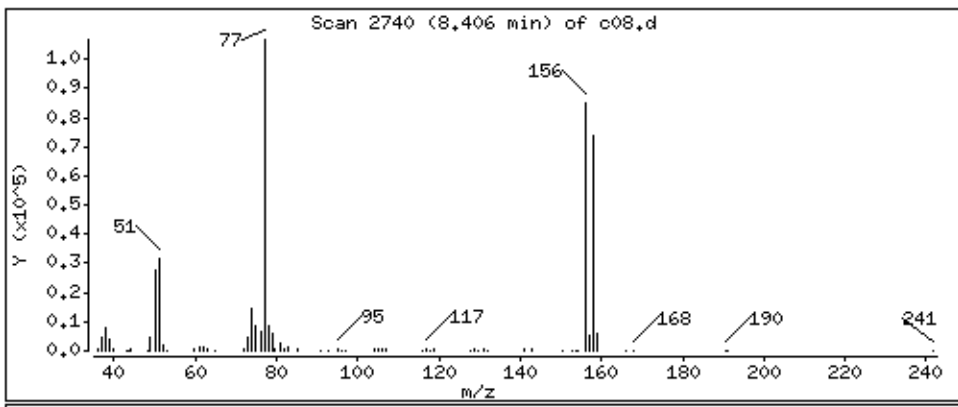
Operator: dae

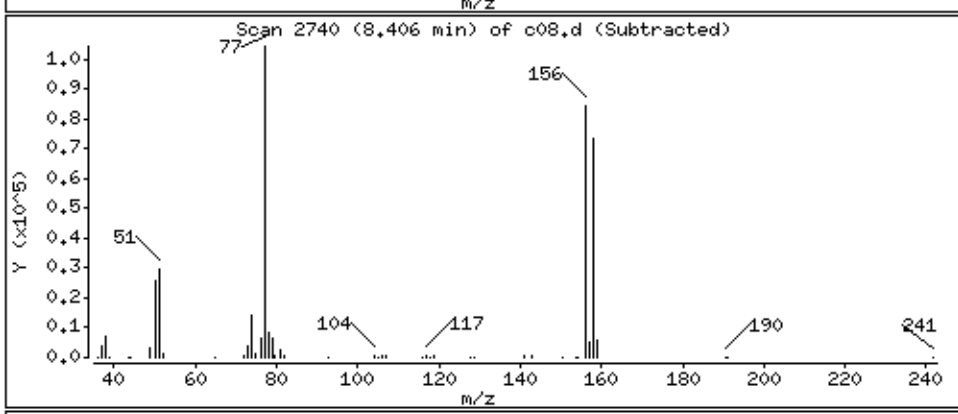
Column phase: DB-624

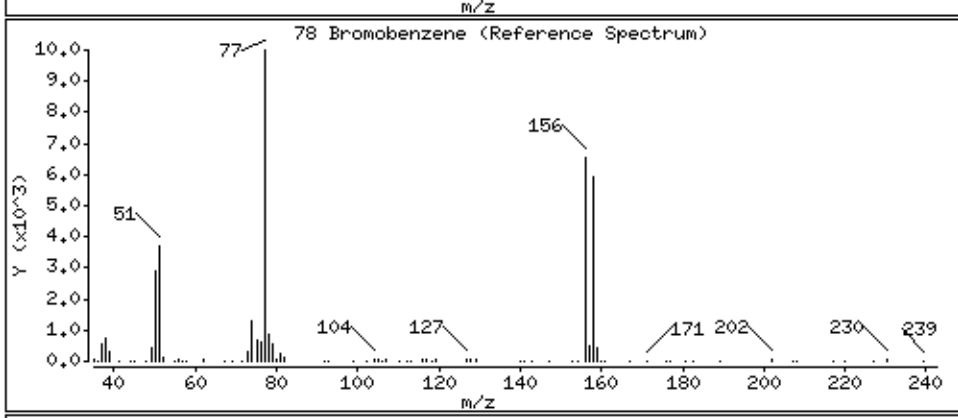
Column diameter: 0.18

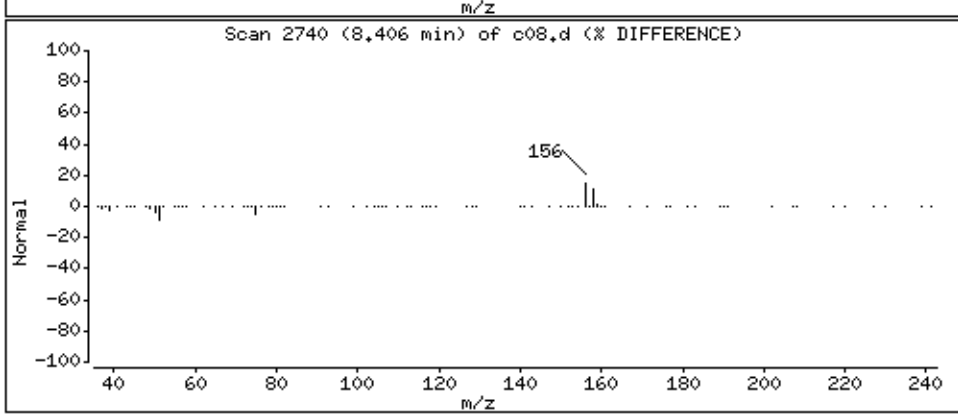
78 Bromobenzene

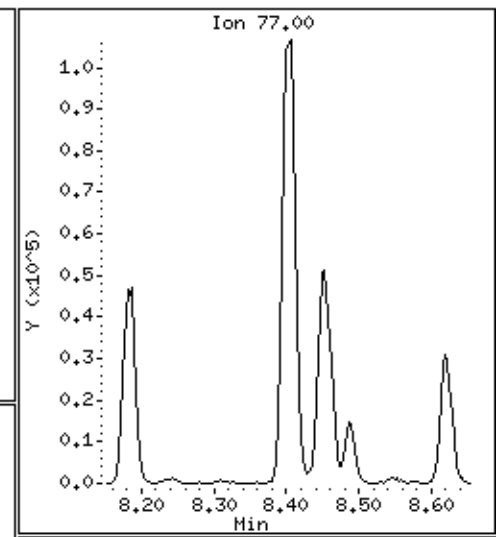
Concentration: 36.5 ppb

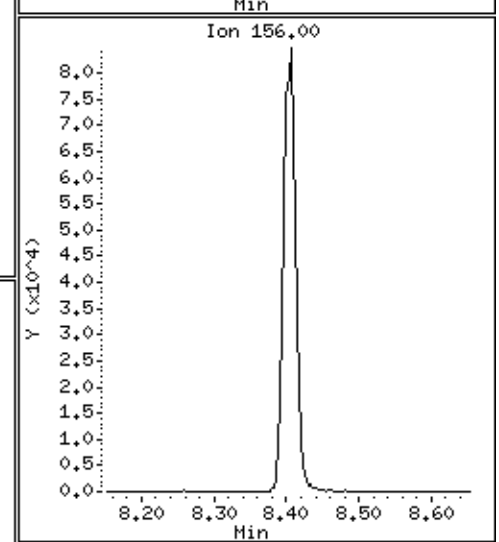


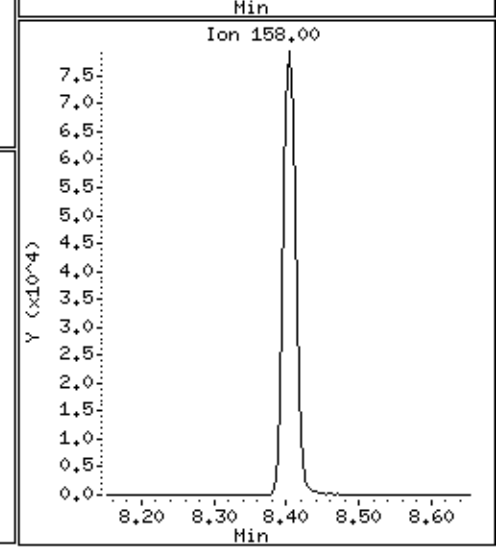












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

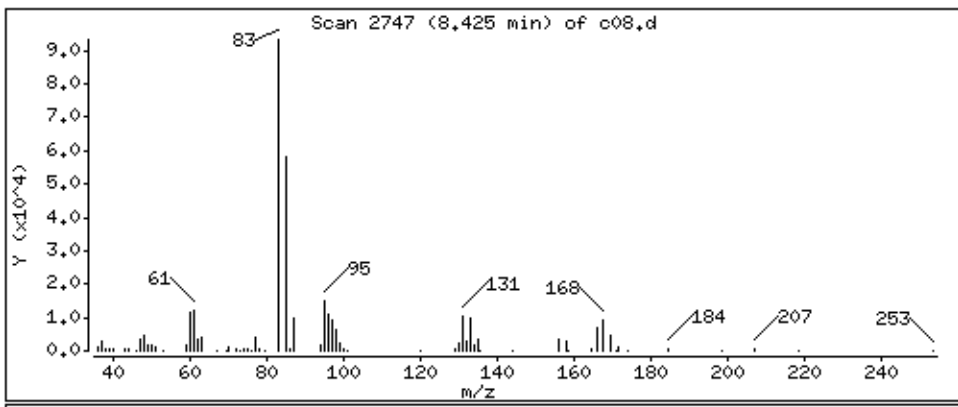
Operator: dae

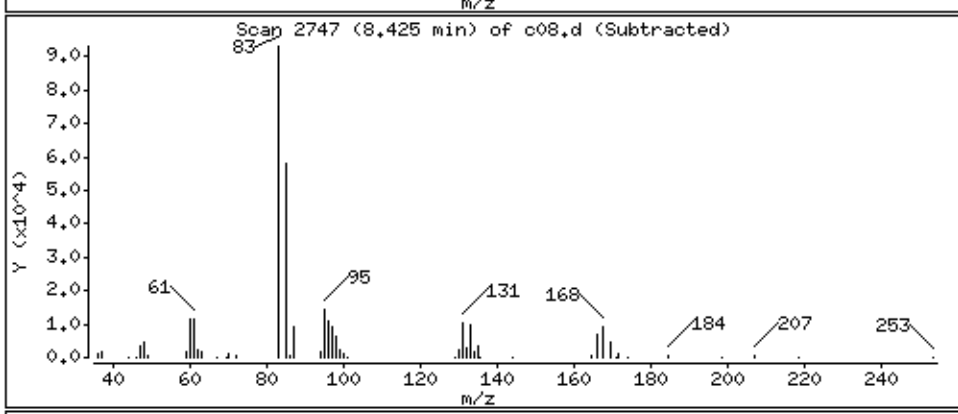
Column phase: DB-624

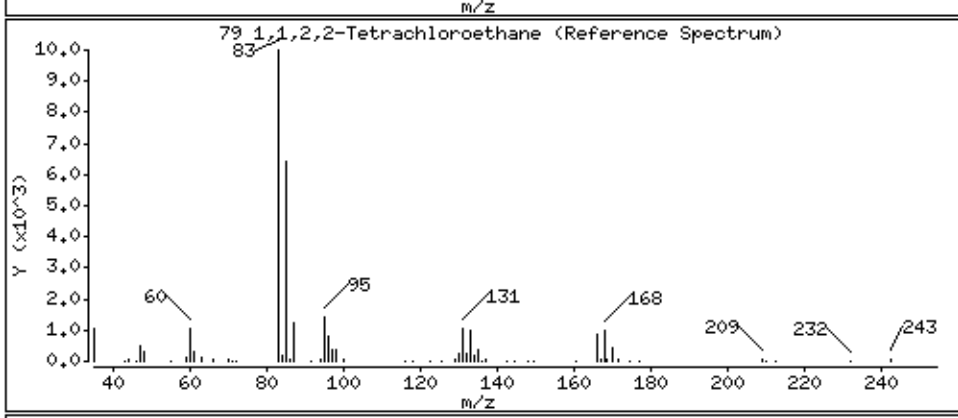
Column diameter: 0.18

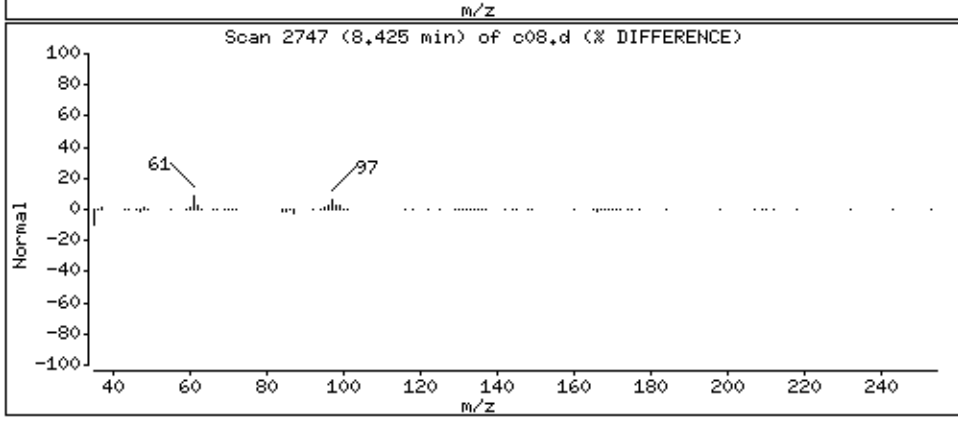
79 1,1,2,2-Tetrachloroethane

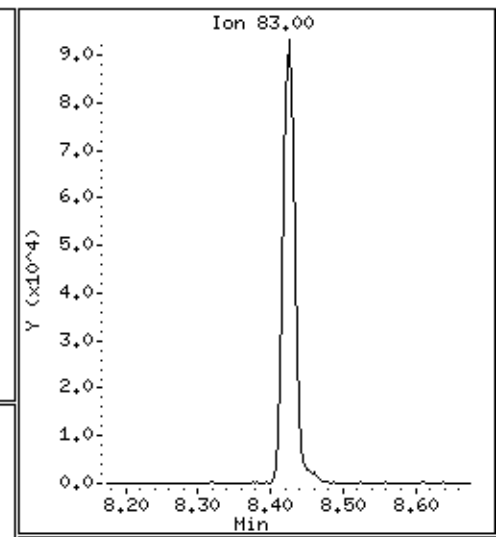
Concentration: 39.4 ppb

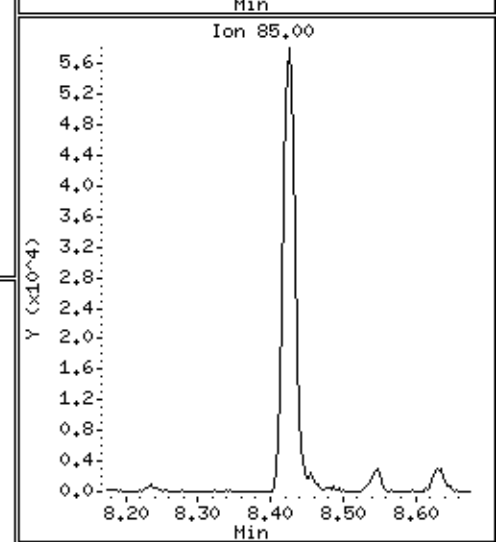


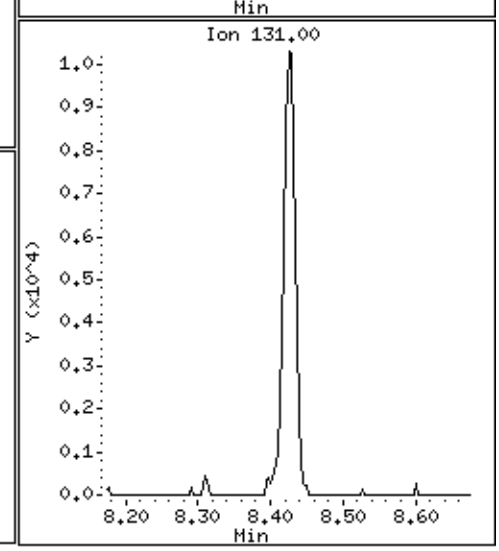












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

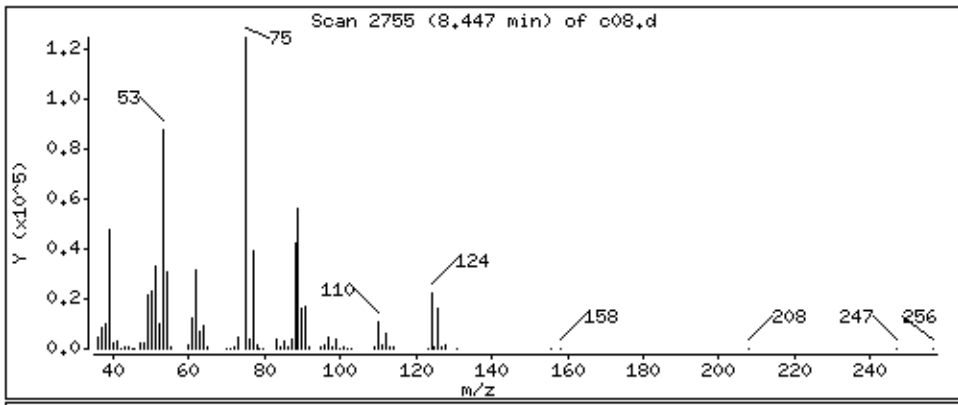
Operator: dae

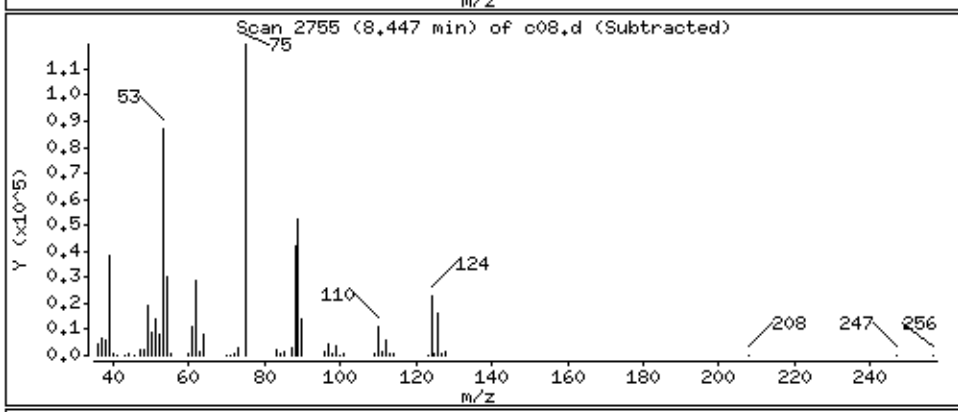
Column phase: DB-624

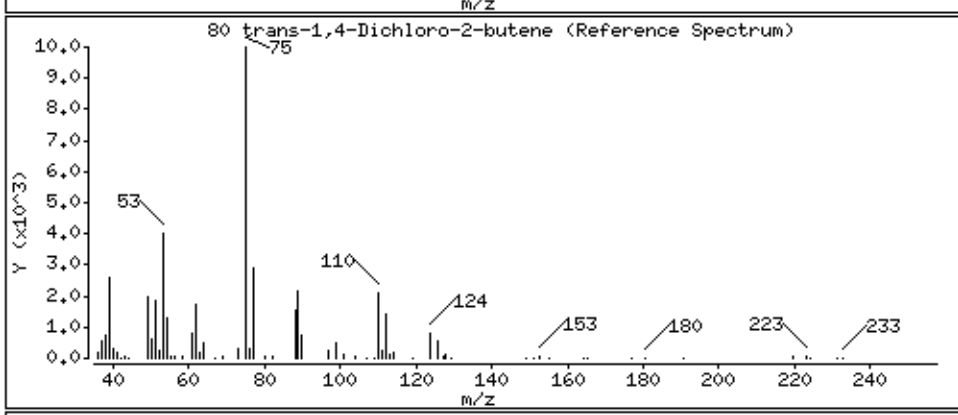
Column diameter: 0.18

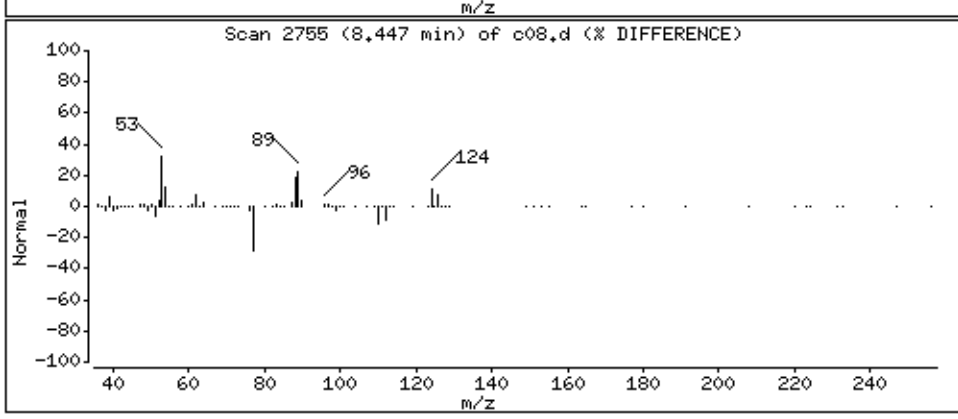
80 trans-1,4-Dichloro-2-butene

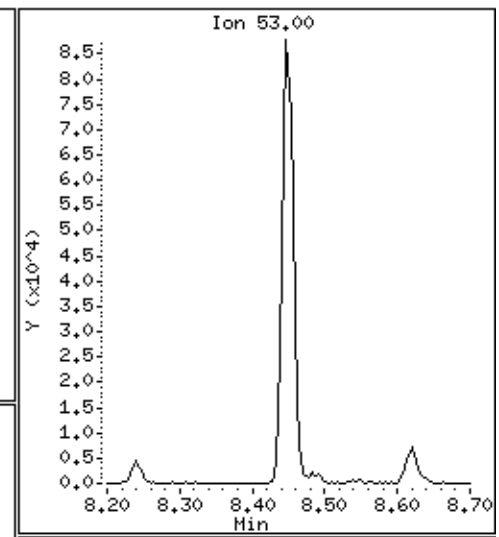
Concentration: 116 ppb

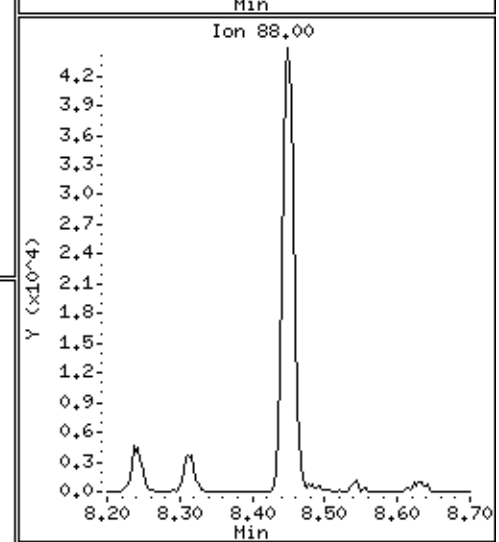


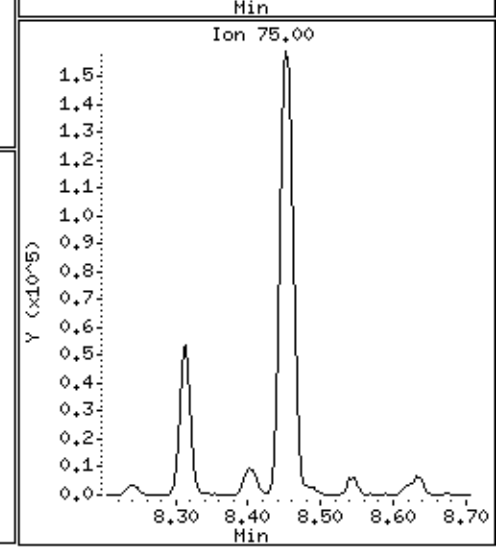












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

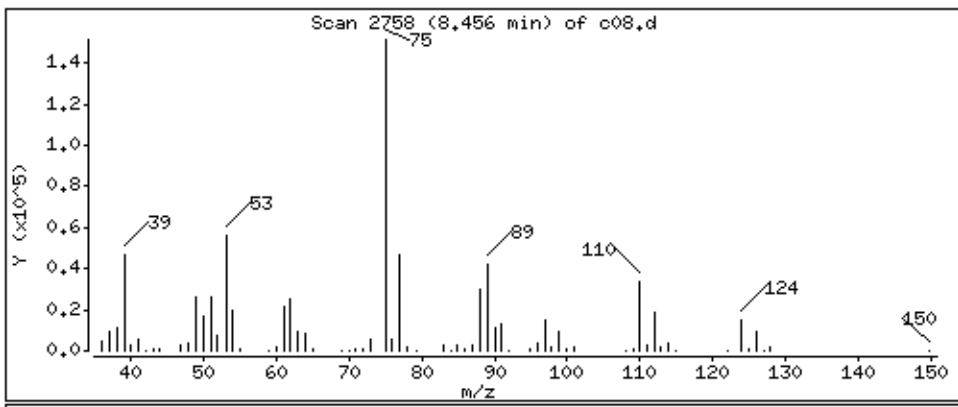
Operator: dae

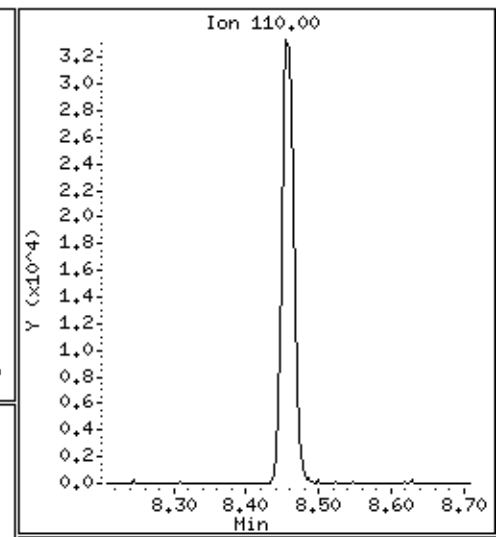
Column phase: DB-624

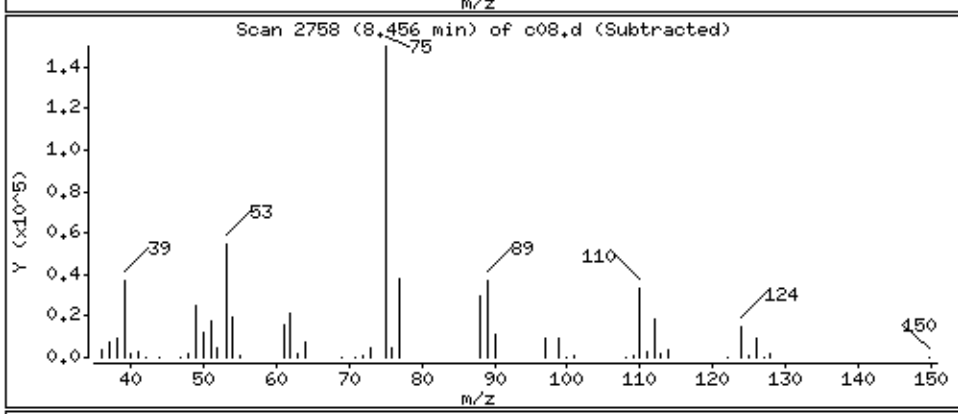
Column diameter: 0.18

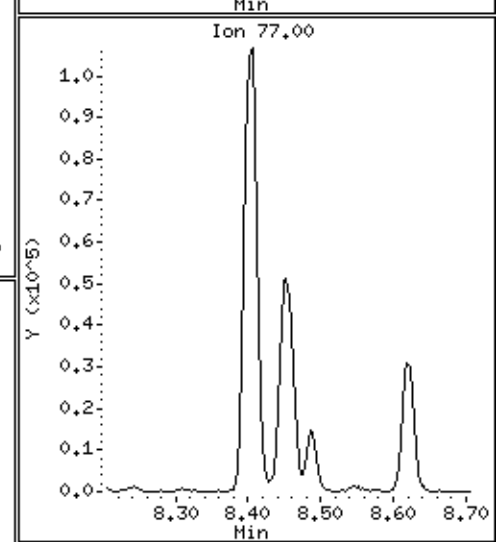
81 1,2,3-Trichloropropane

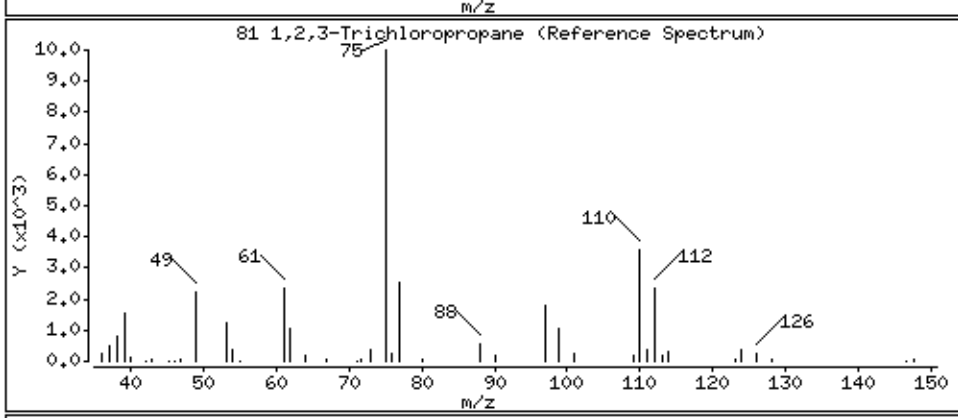
Concentration: 39.6 ppb

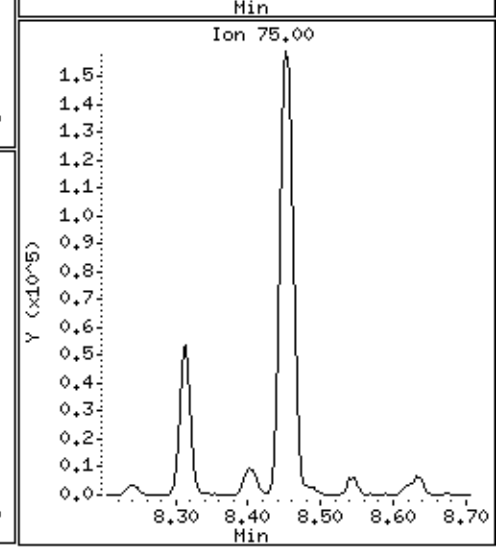


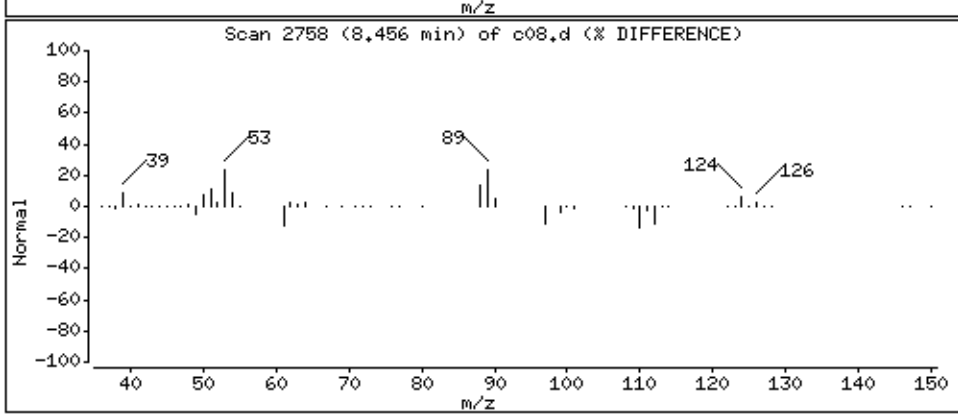












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

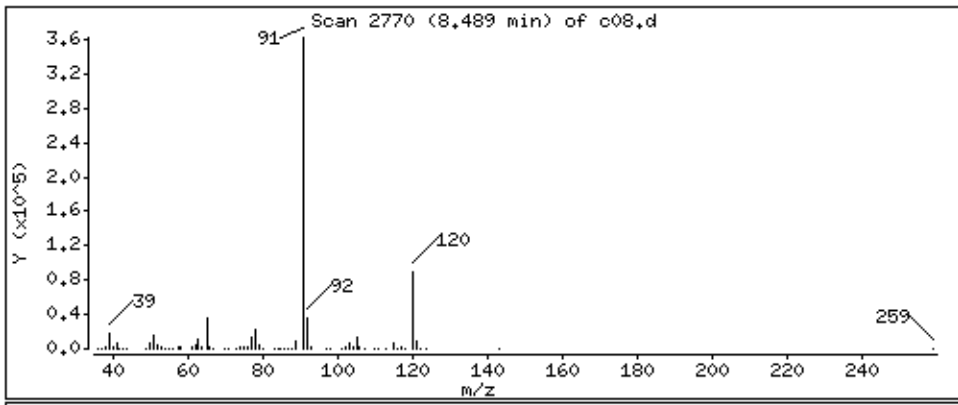
Operator: dae

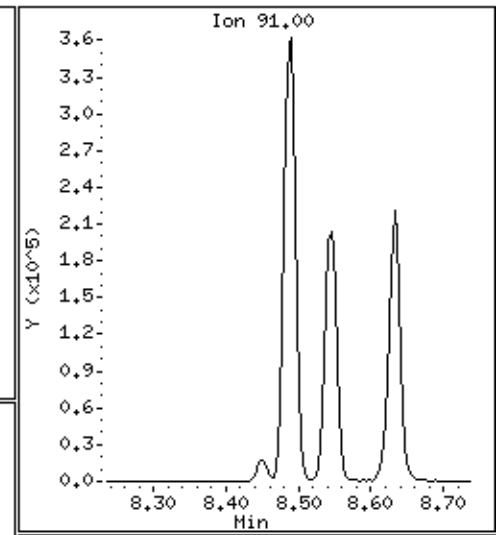
Column phase: DB-624

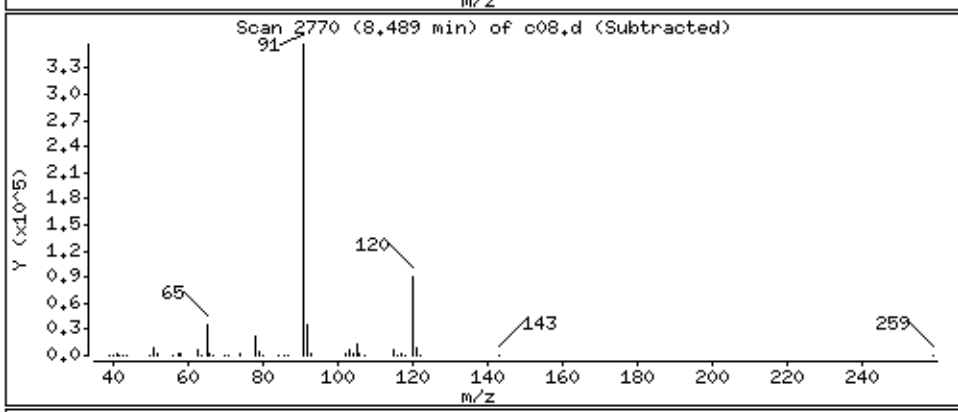
Column diameter: 0.18

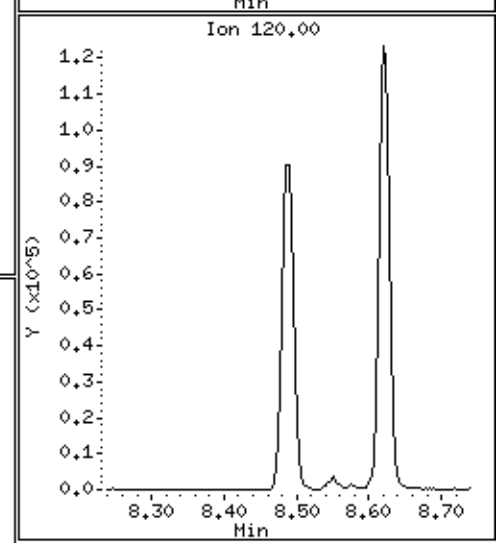
82 n-Propylbenzene

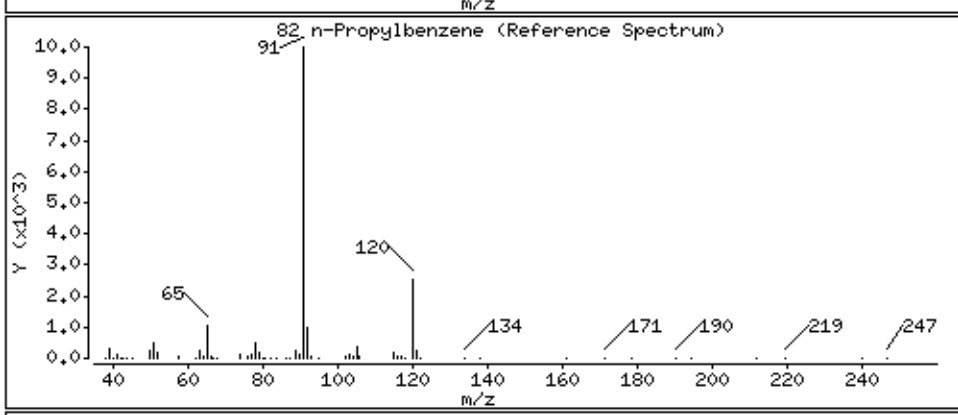
Concentration: 41.6 ppb

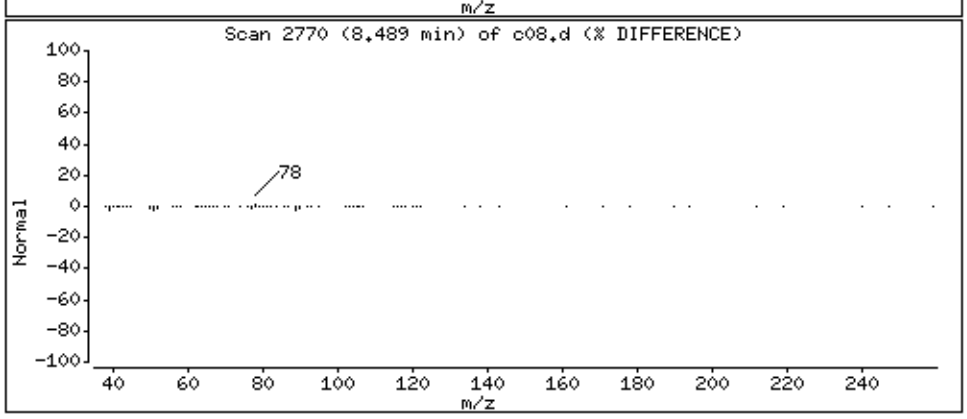












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

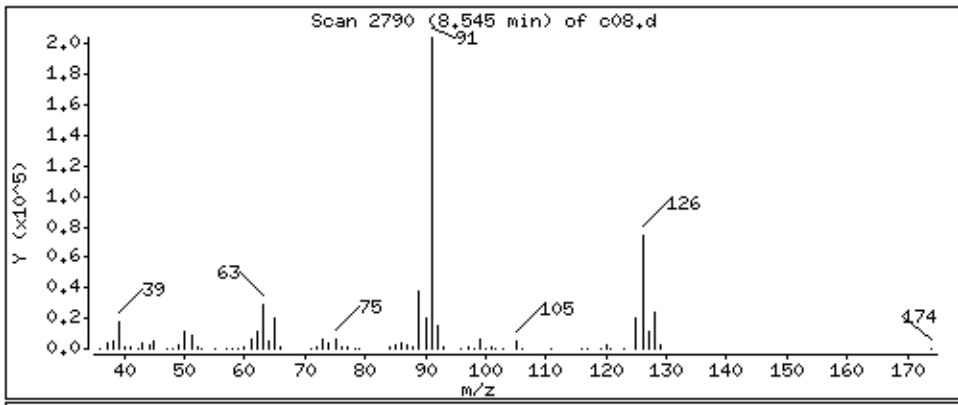
Operator: dae

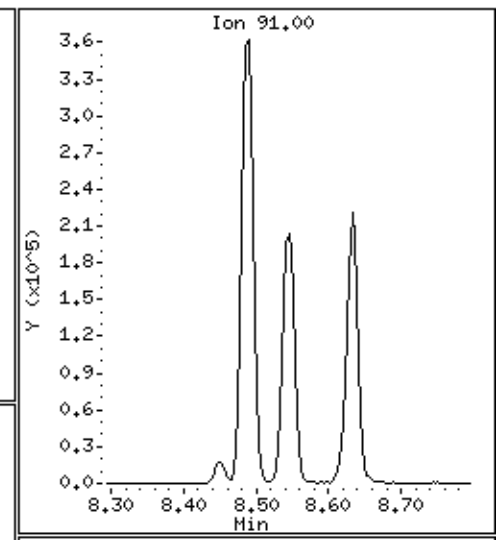
Column phase: DB-624

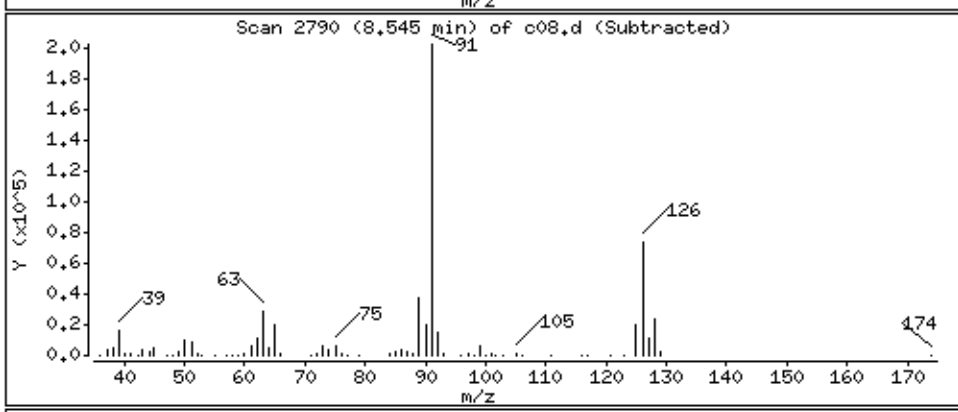
Column diameter: 0.18

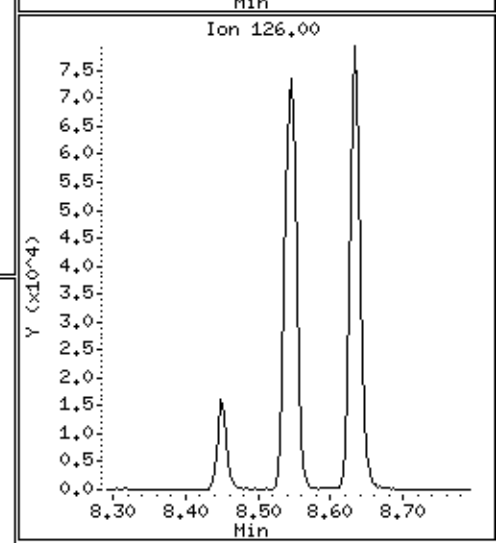
83 2-Chlorotoluene

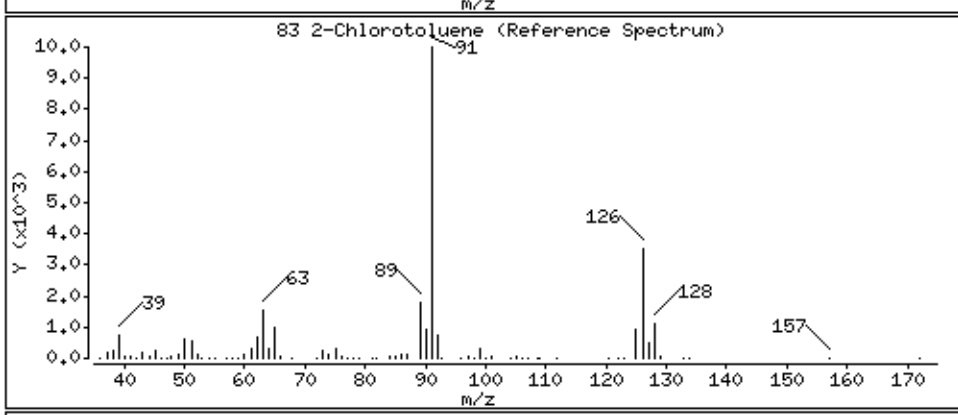
Concentration: 38.3 ppb

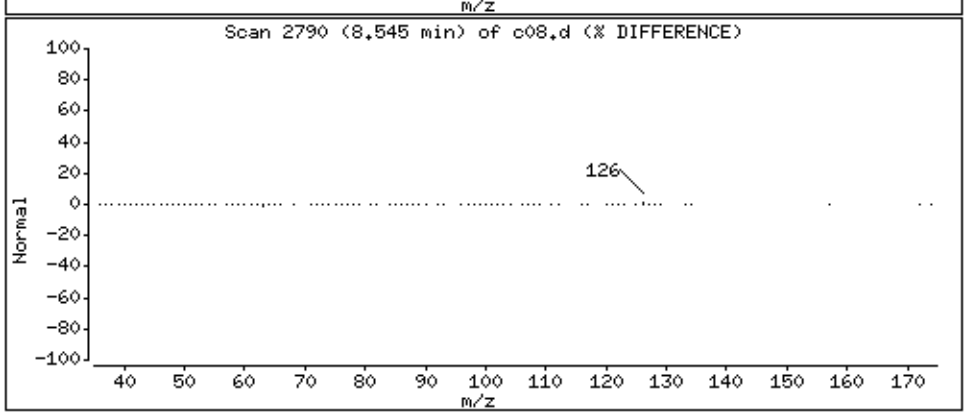












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

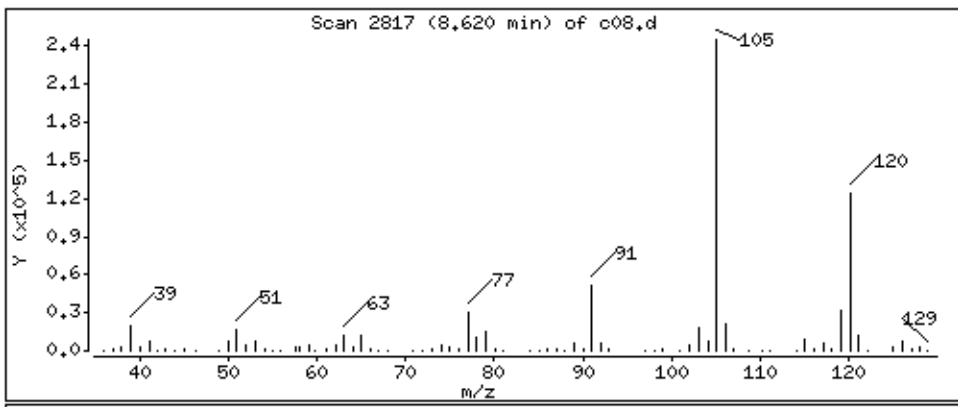
Operator: dae

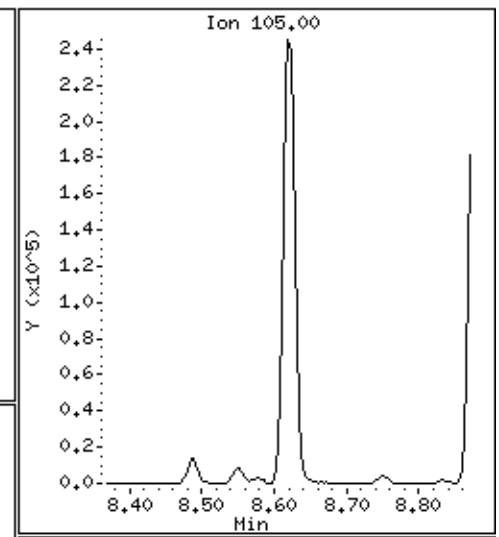
Column phase: DB-624

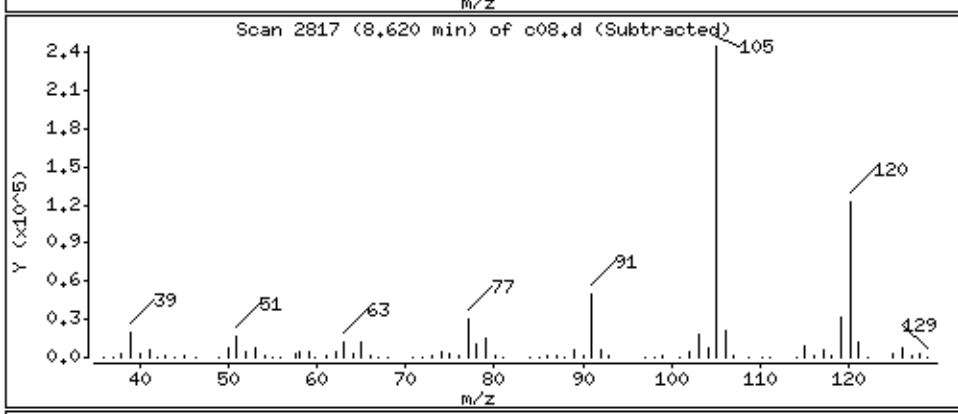
Column diameter: 0.18

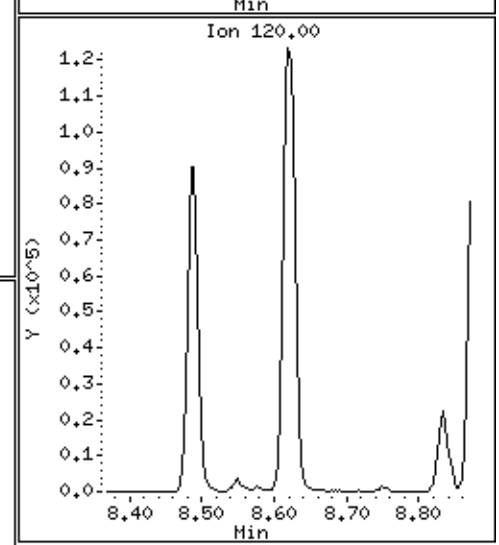
84 1,3,5-Trimethylbenzene

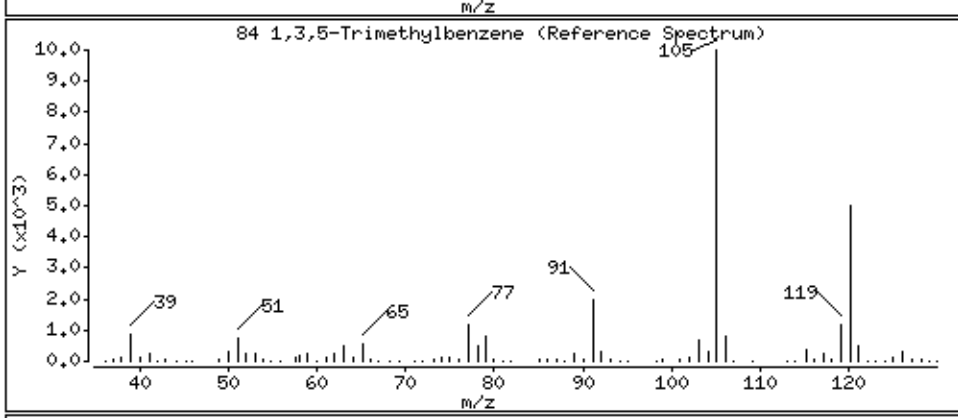
Concentration: 37.7 ppb

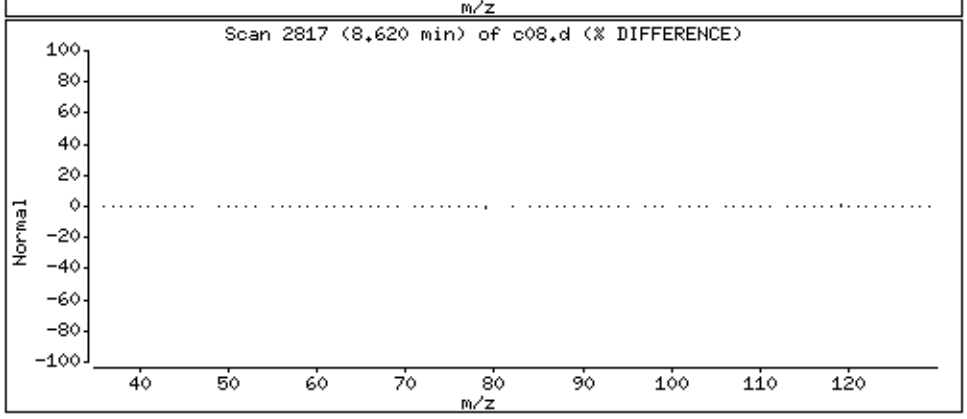












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

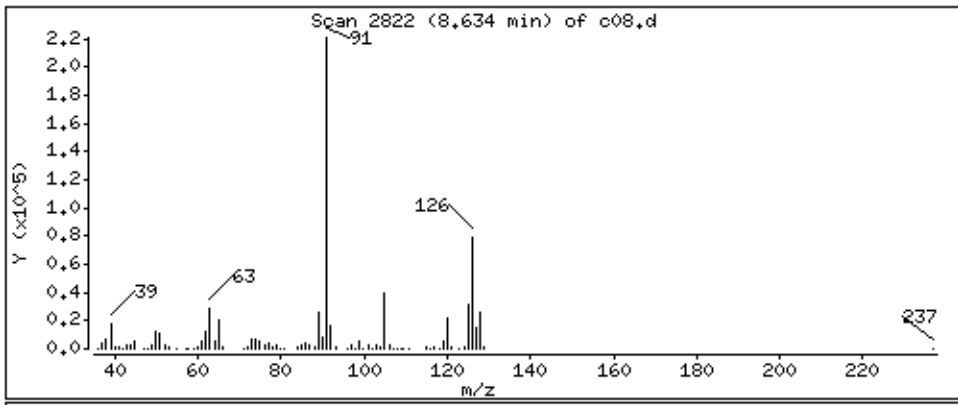
Operator: dae

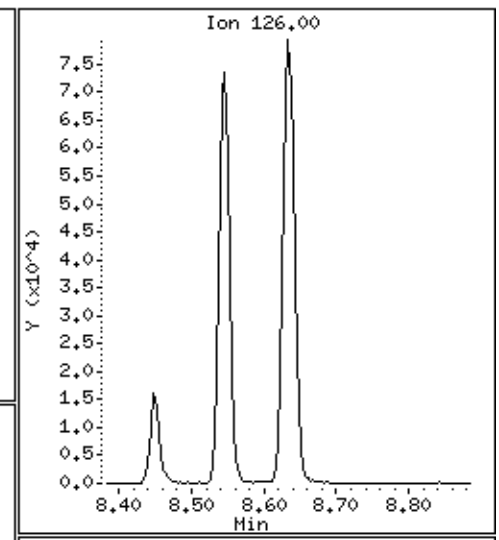
Column phase: DB-624

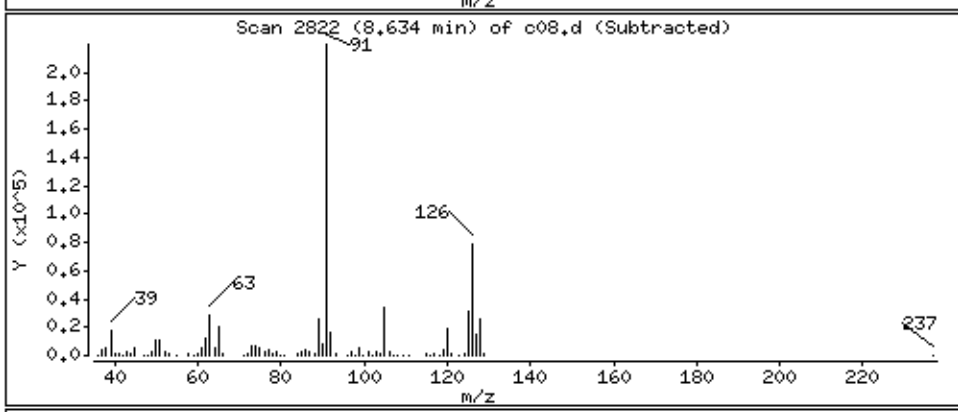
Column diameter: 0.18

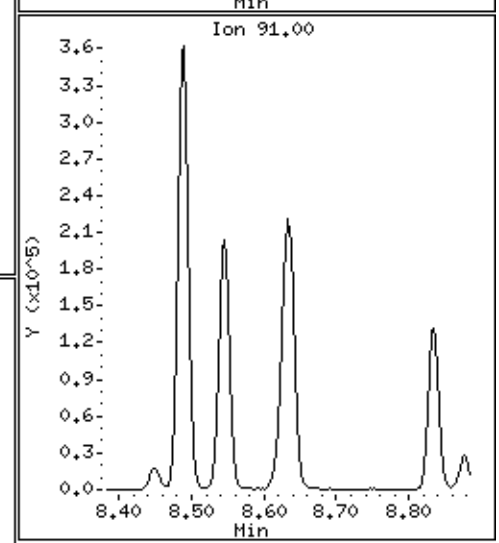
85 4-Chlorotoluene

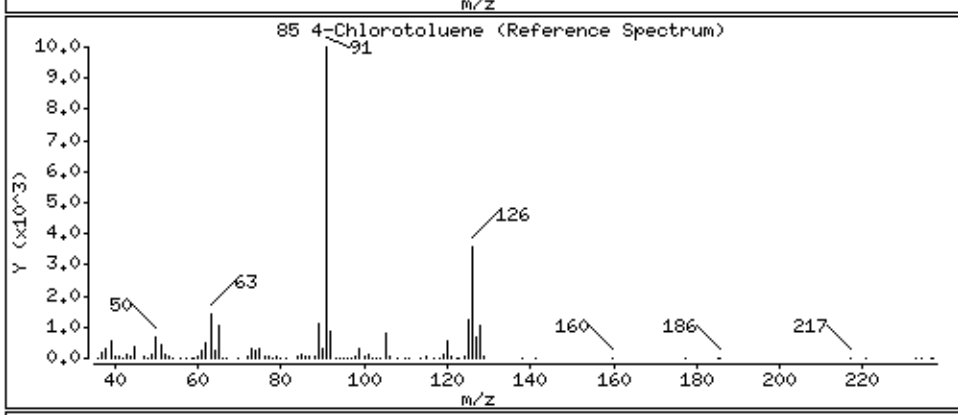
Concentration: 38.0 ppb

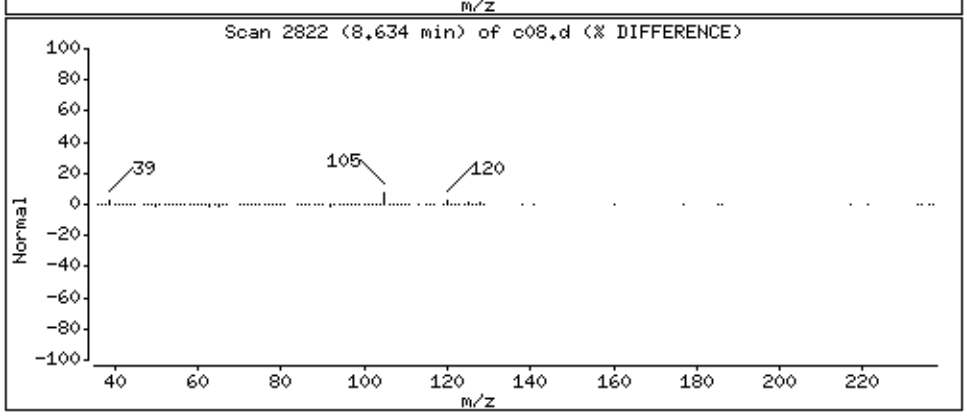












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

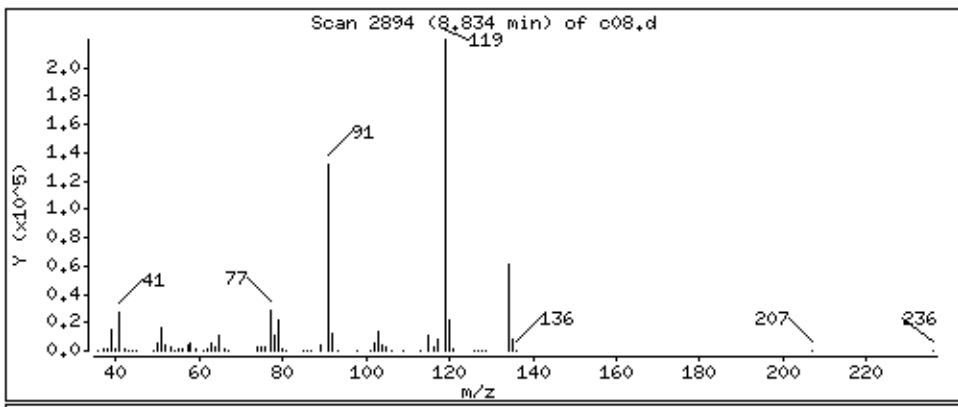
Operator: dae

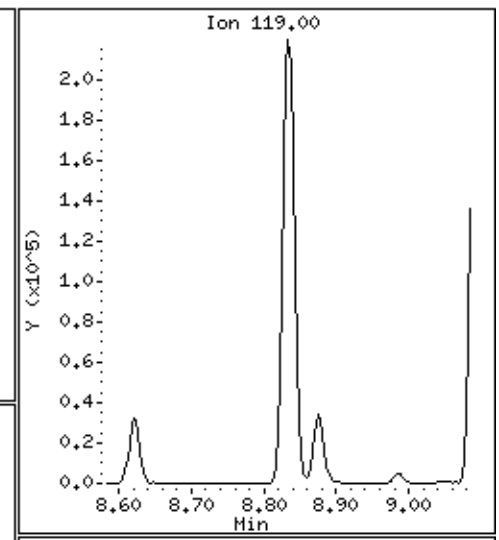
Column phase: DB-624

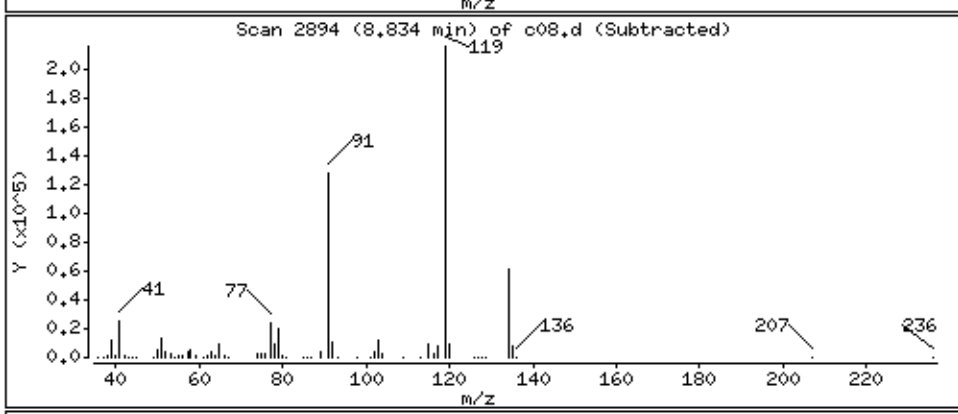
Column diameter: 0.18

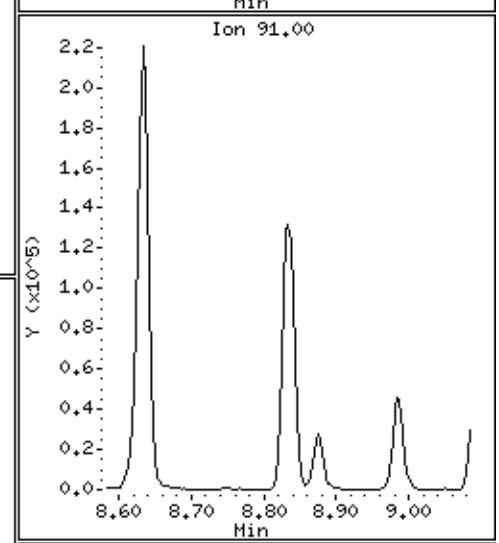
86 tert-Butylbenzene

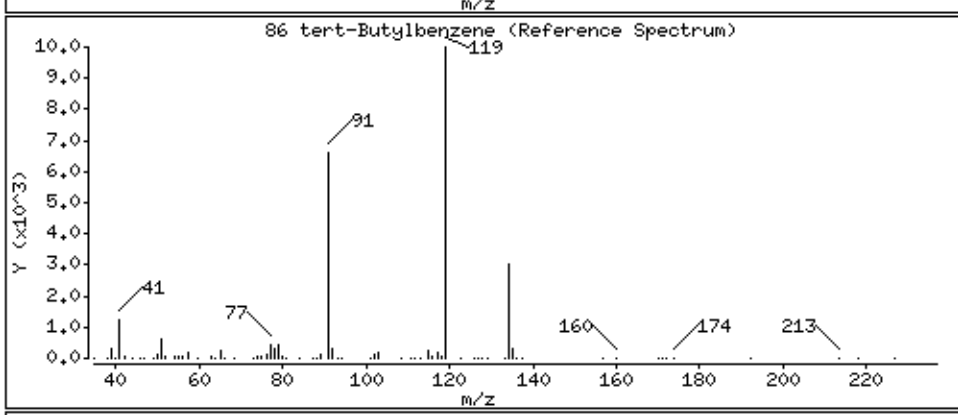
Concentration: 32.1 ppb

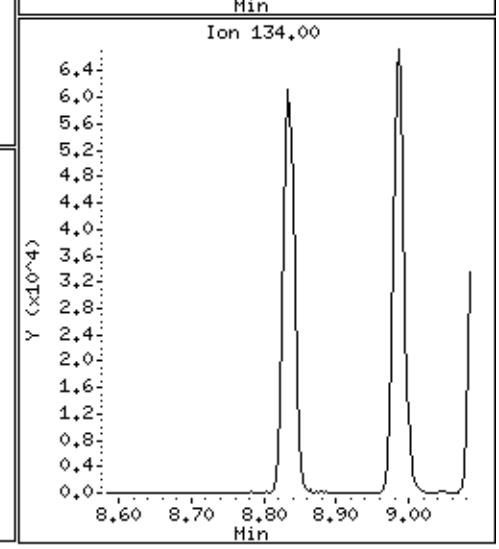


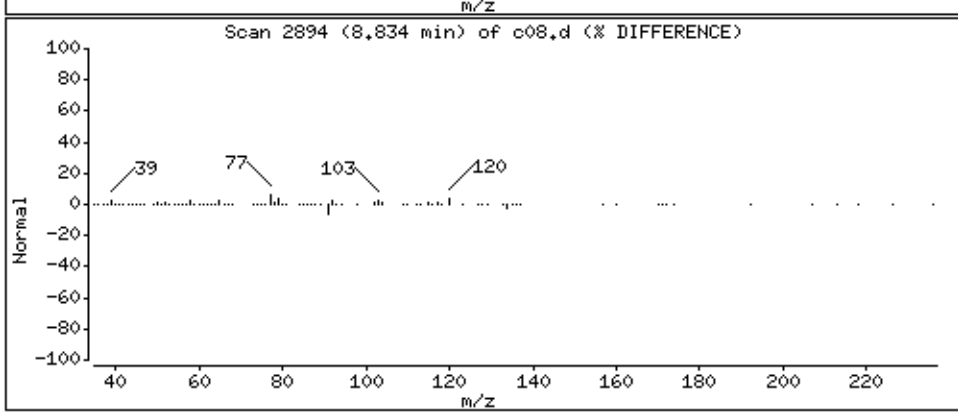












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

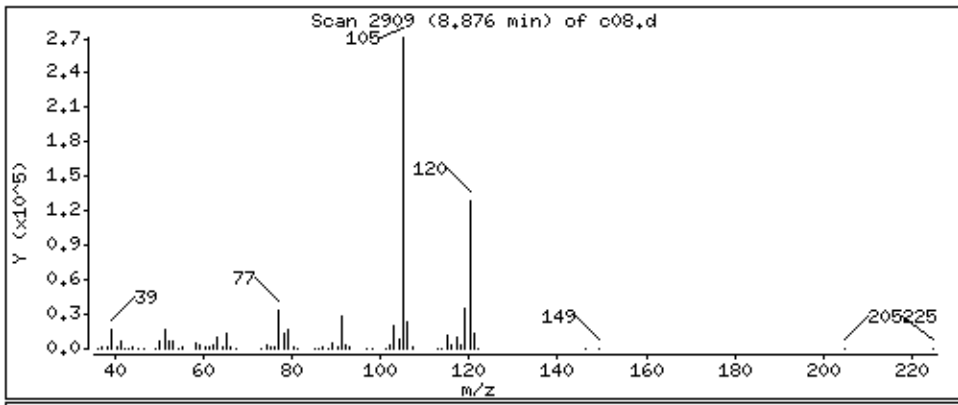
Operator: dae

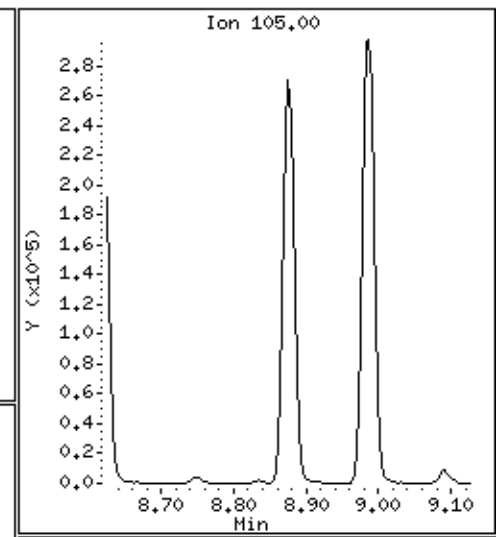
Column phase: DB-624

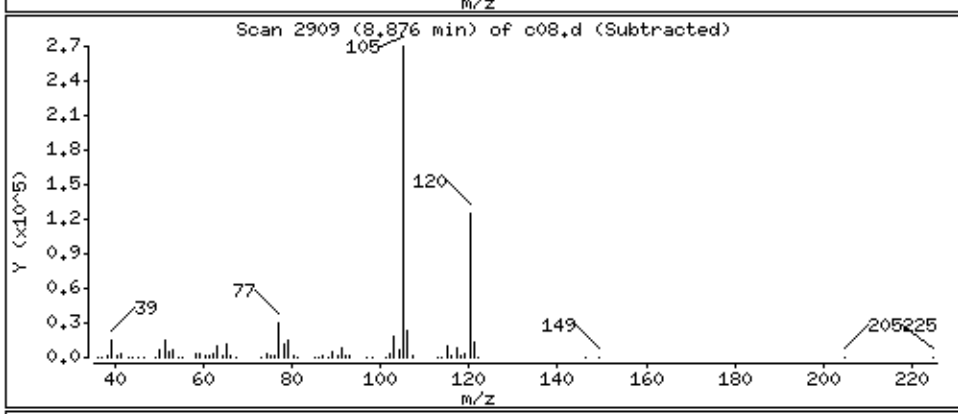
Column diameter: 0.18

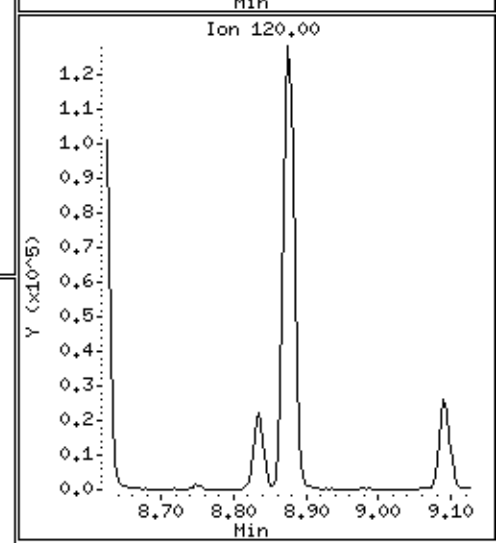
87 1,2,4-Trimethylbenzene

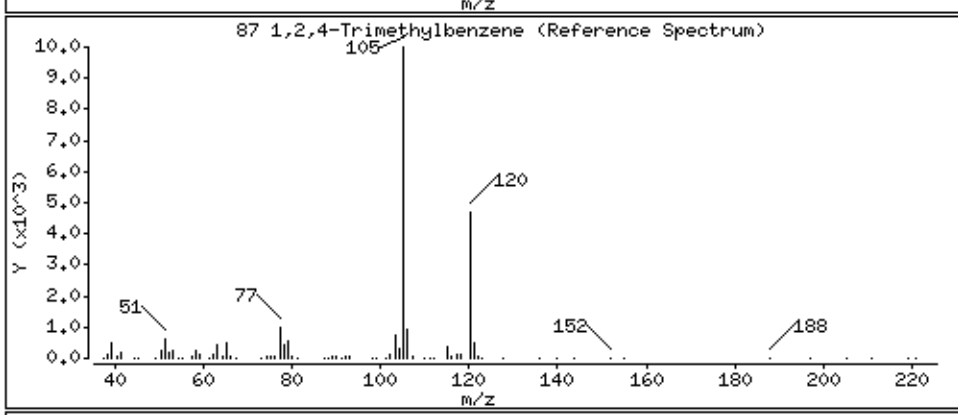
Concentration: 38.7 ppb

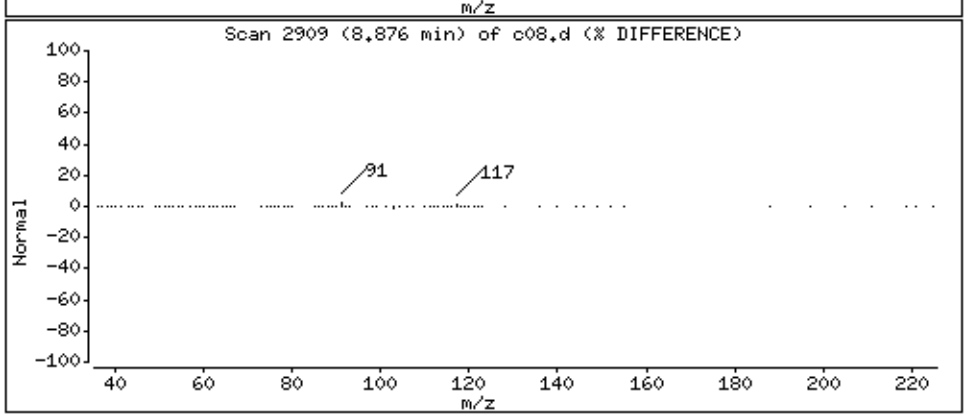












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

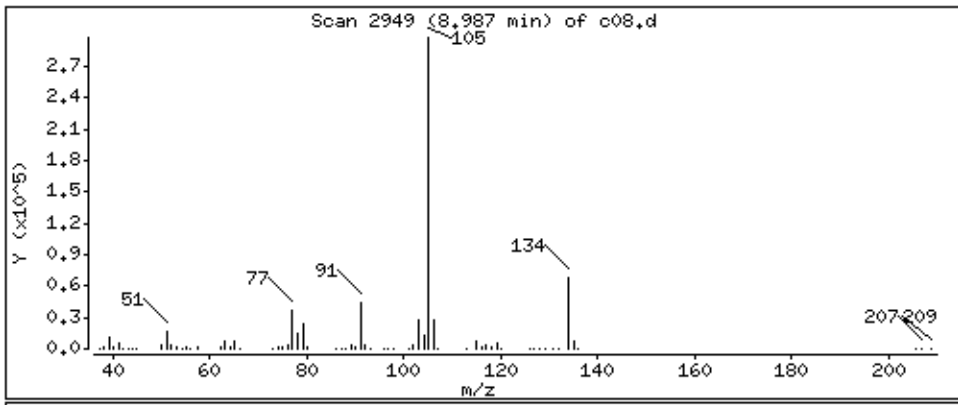
Operator: dae

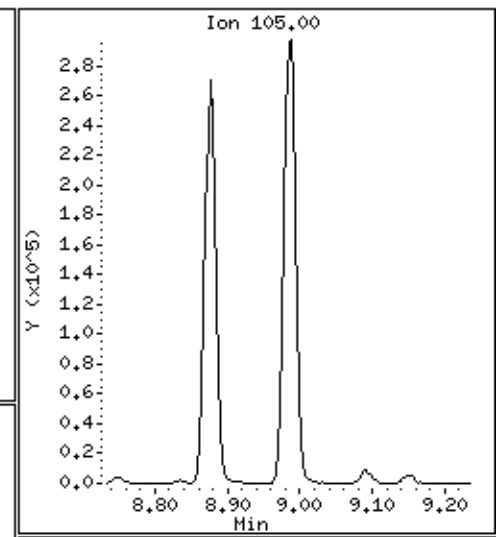
Column phase: DB-624

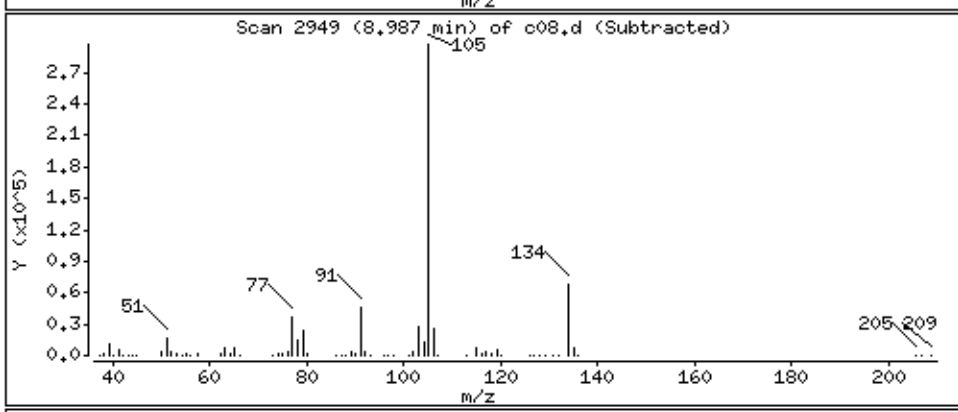
Column diameter: 0.18

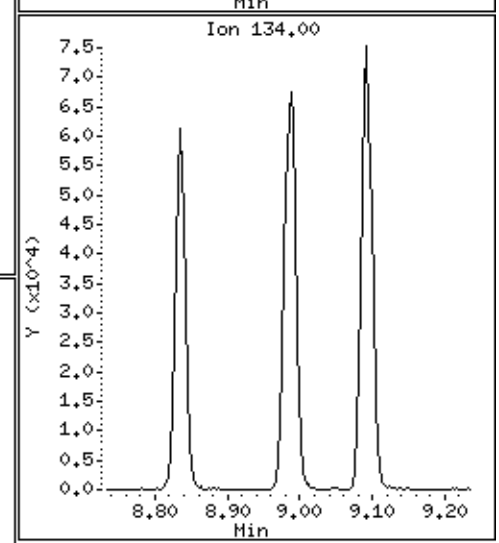
88 sec-Butylbenzene

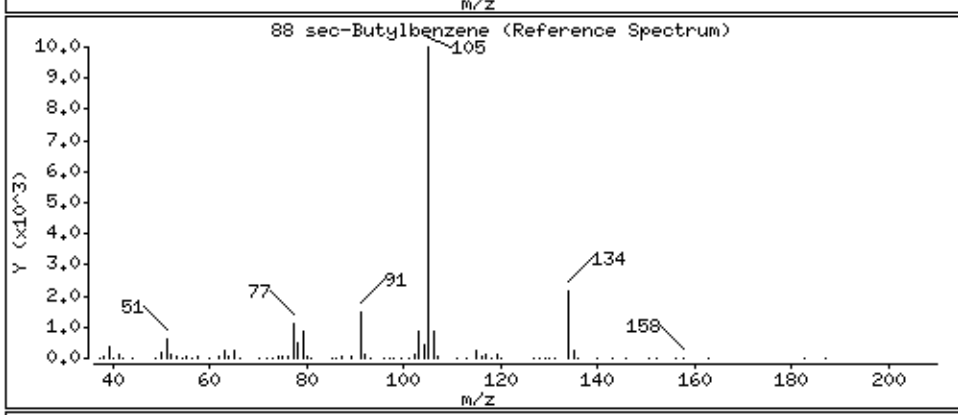
Concentration: 38.1 ppb

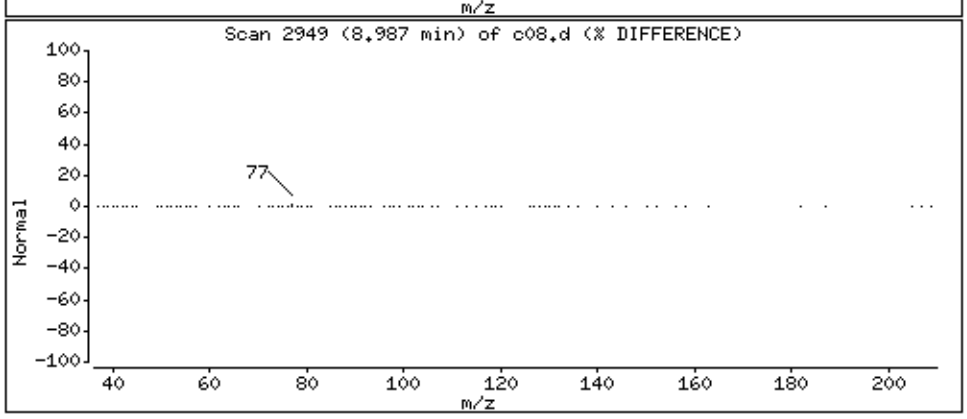












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

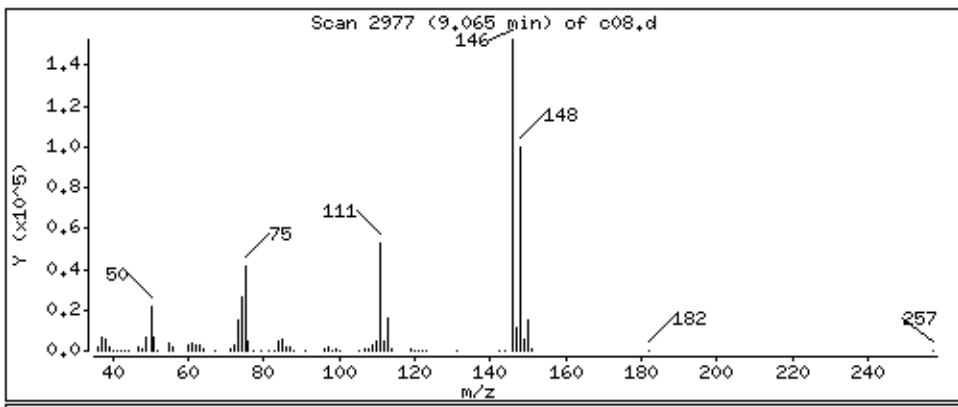
Operator: dae

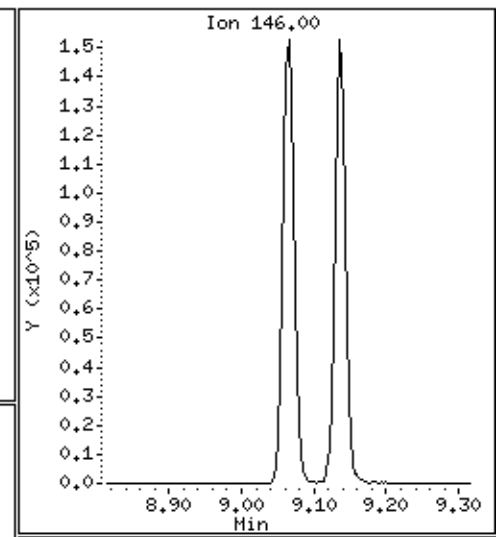
Column phase: DB-624

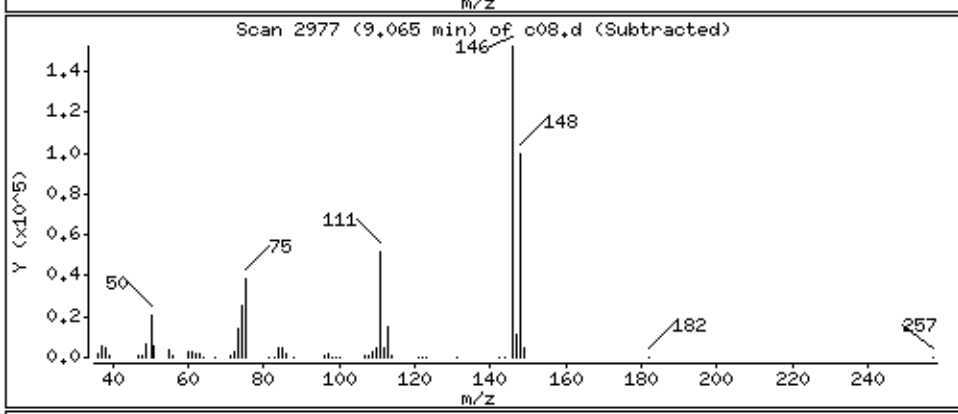
Column diameter: 0.18

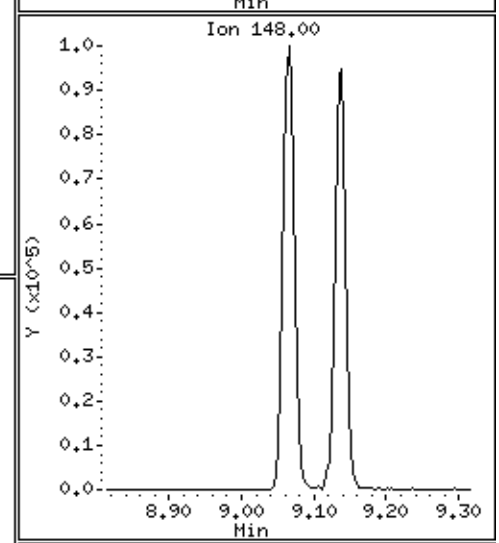
89 1,3-Dichlorobenzene

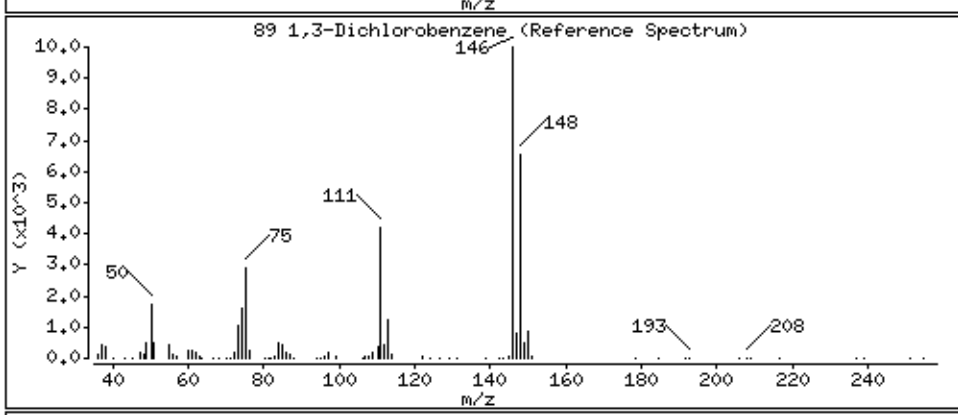
Concentration: 35.9 ppb

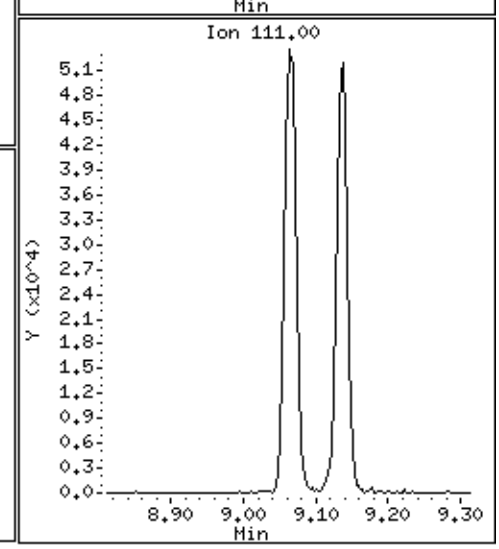


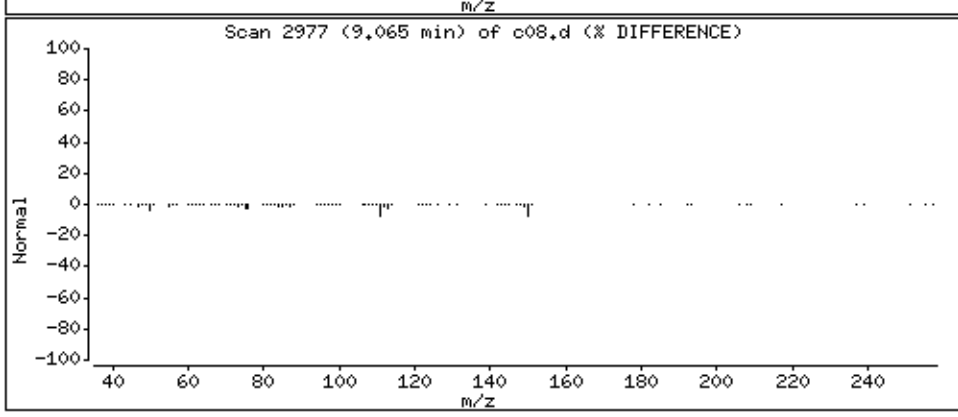












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

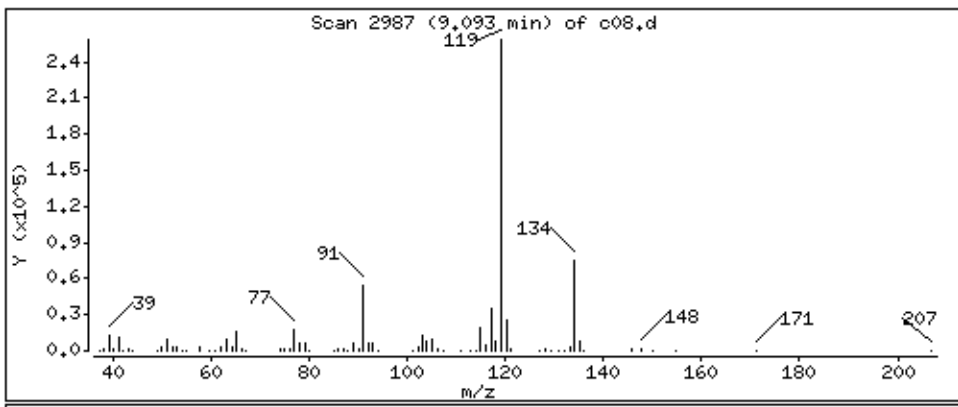
Operator: dae

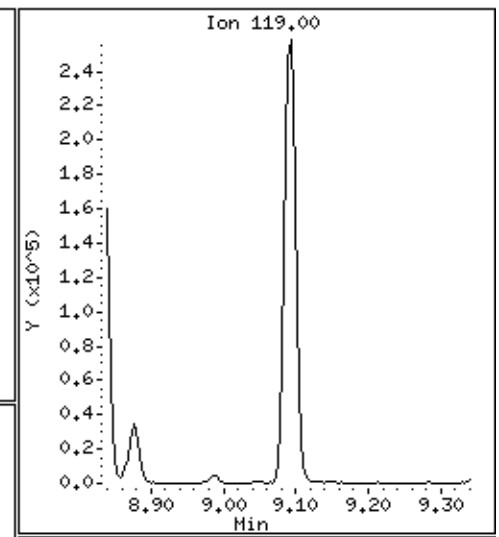
Column phase: DB-624

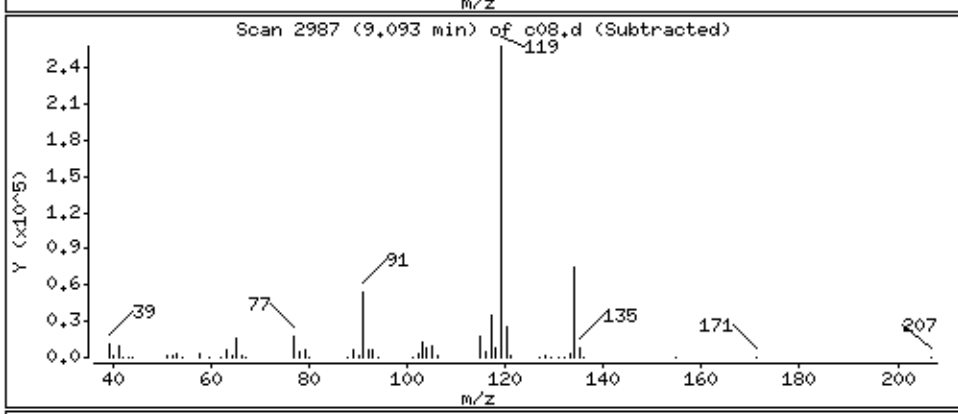
Column diameter: 0.18

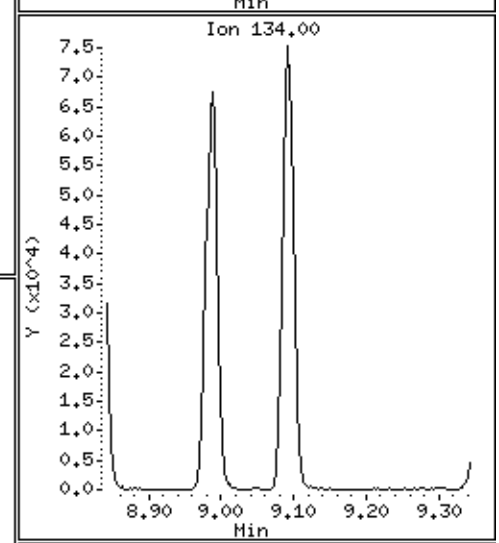
90 p-Isopropyltoluene

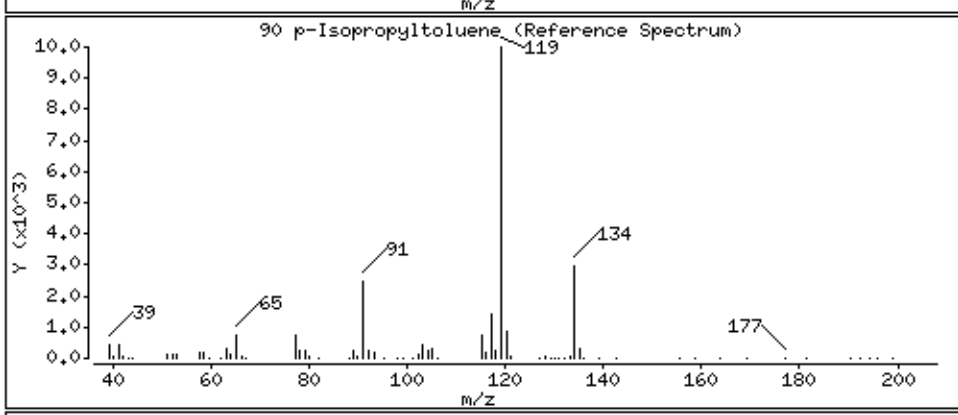
Concentration: 38.5 ppb

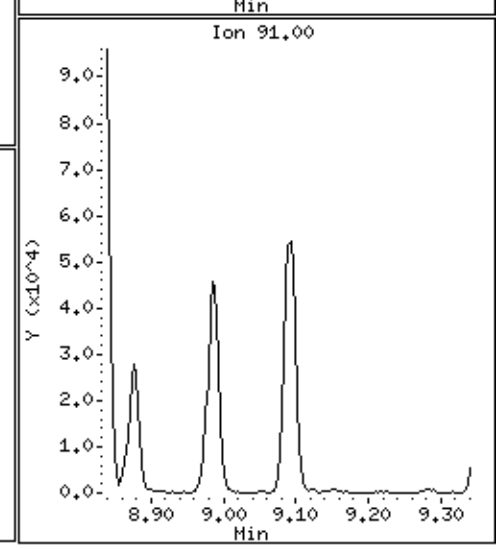


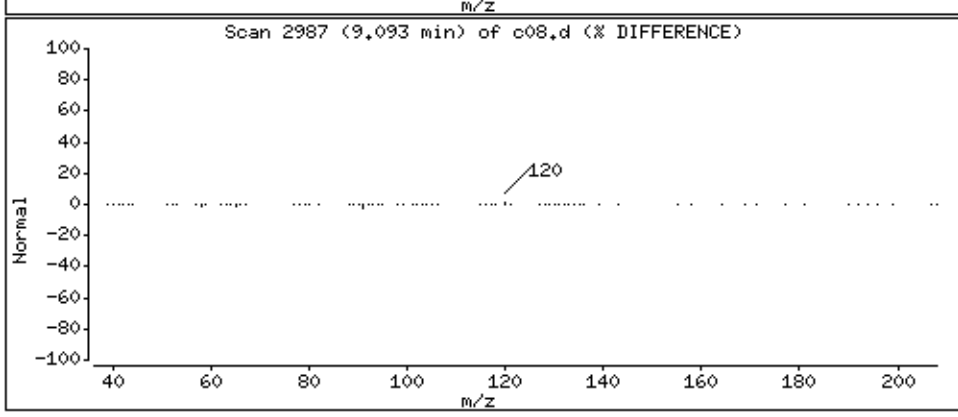












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

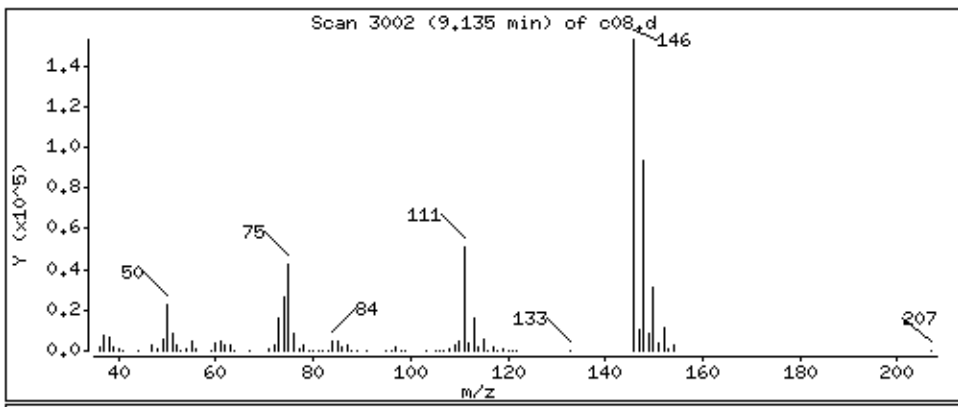
Operator: dae

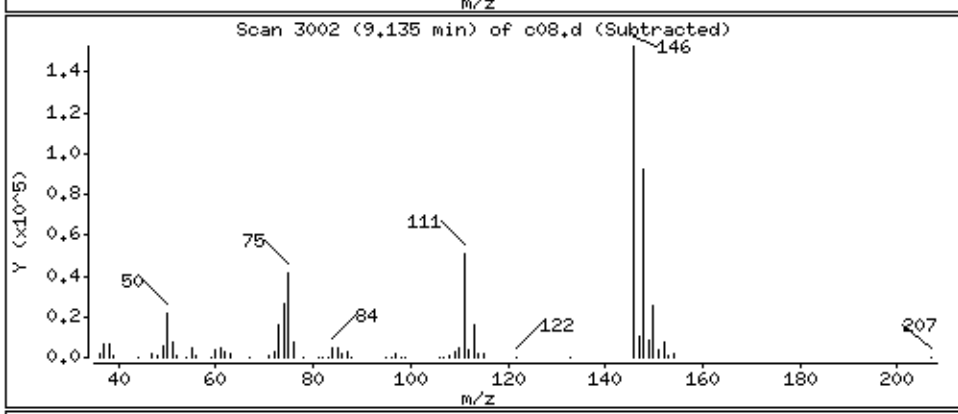
Column phase: DB-624

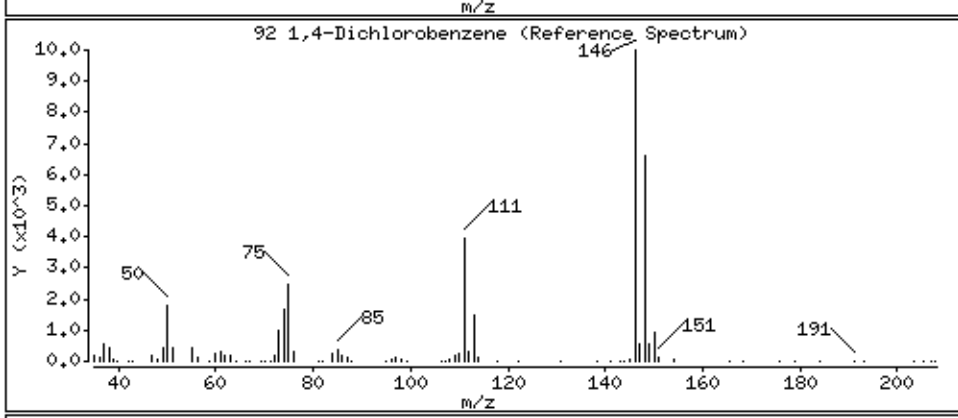
Column diameter: 0.18

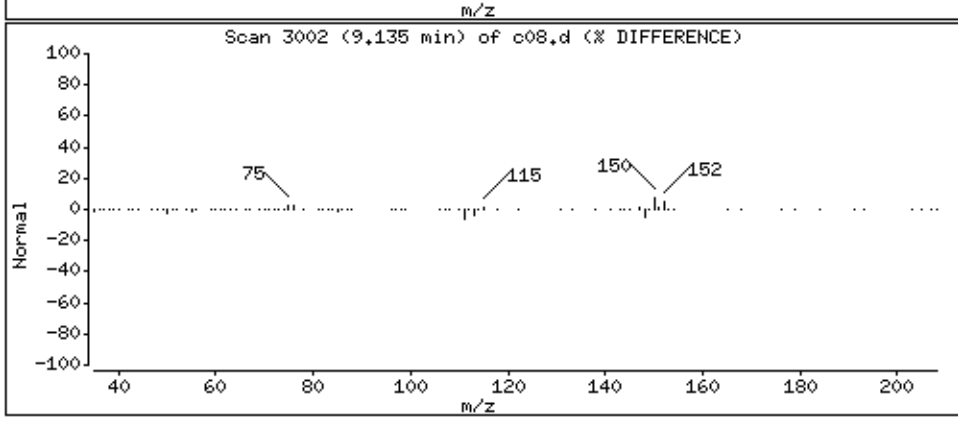
92 1,4-Dichlorobenzene

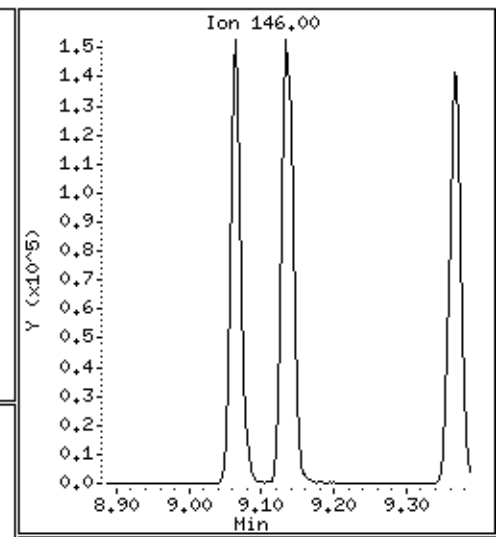
Concentration: 34.5 ppb

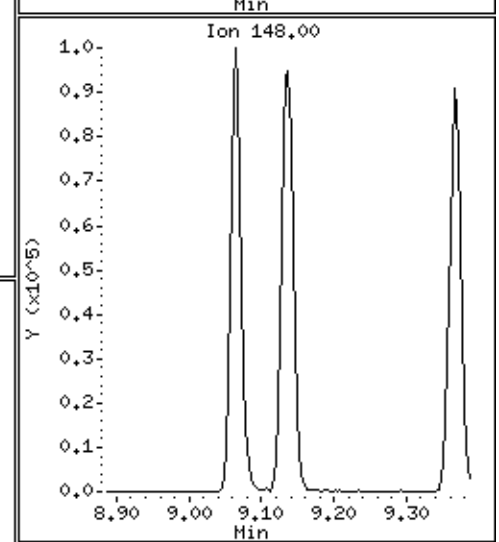


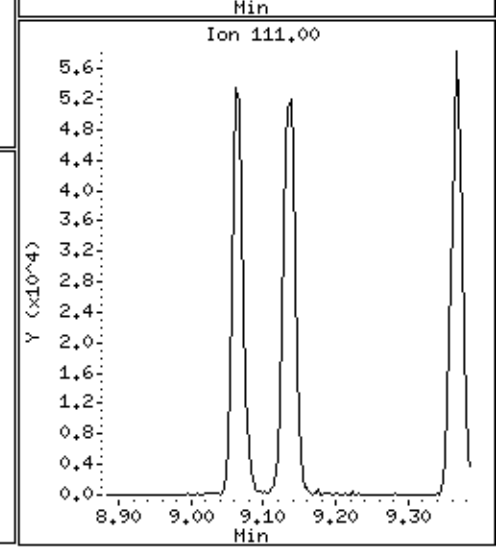












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

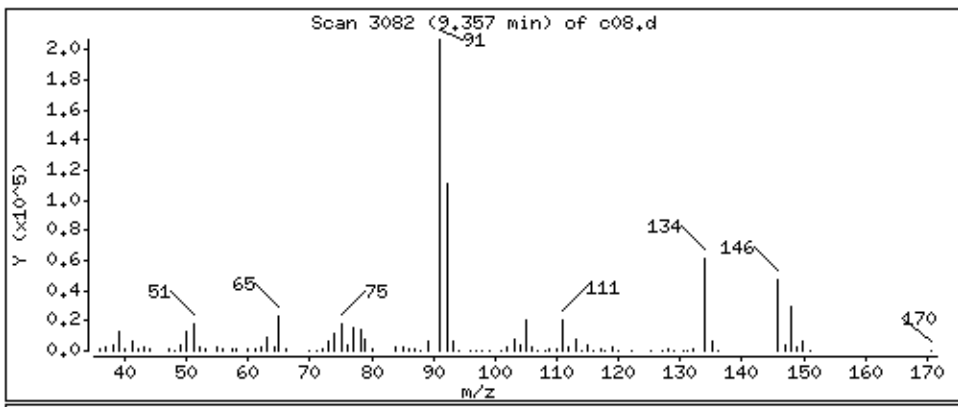
Operator: dae

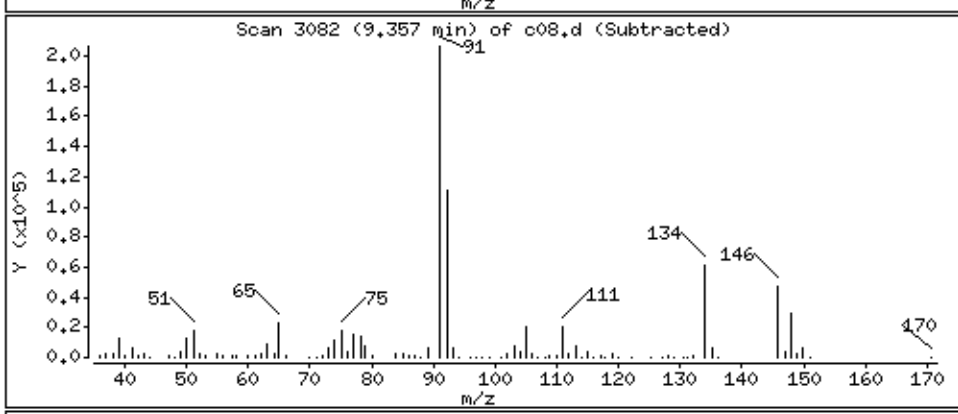
Column phase: DB-624

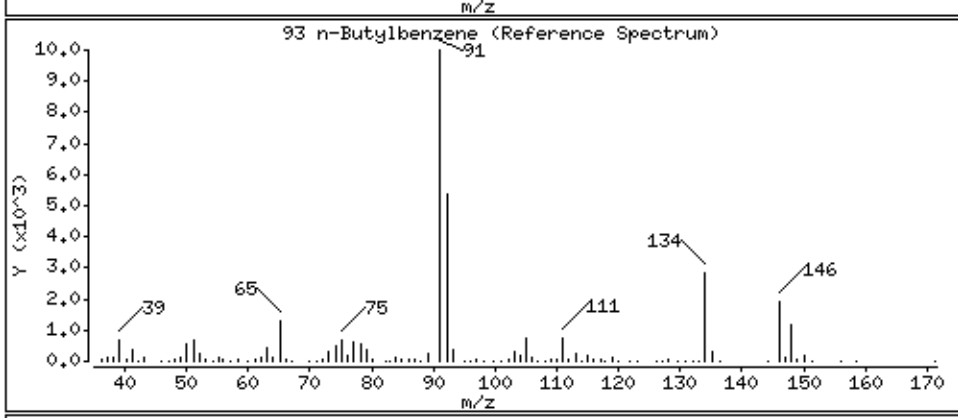
Column diameter: 0.18

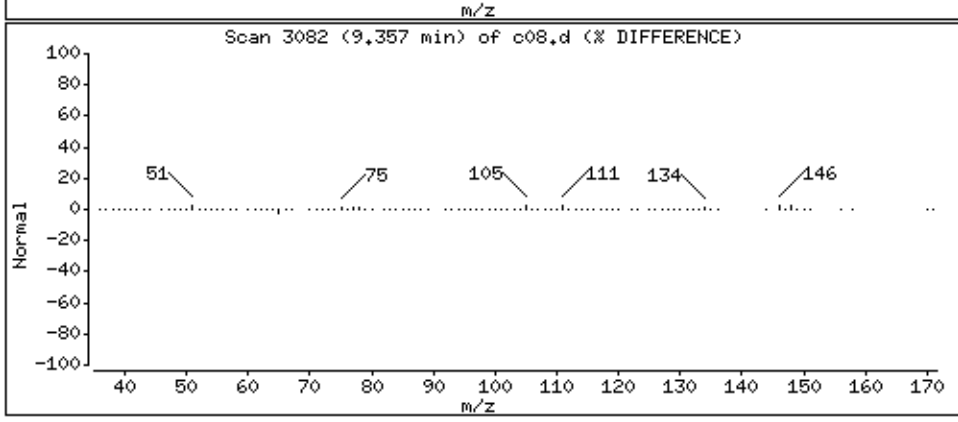
93 n-Butylbenzene

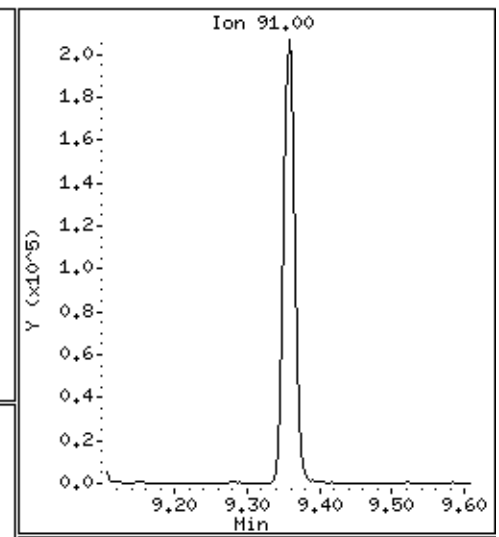
Concentration: 36.3 ppb

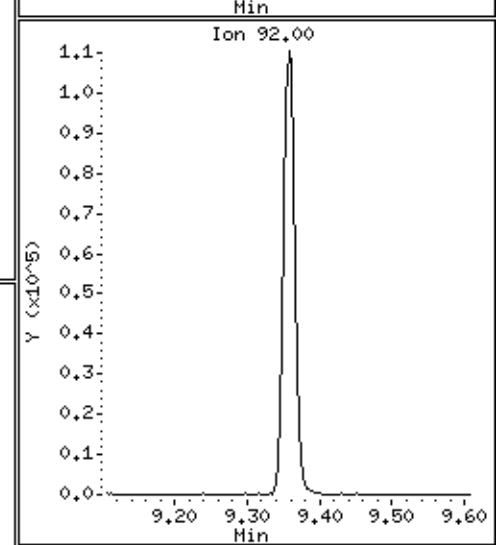


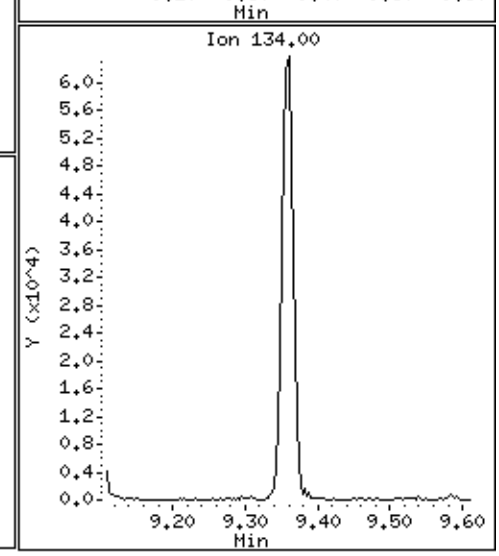












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

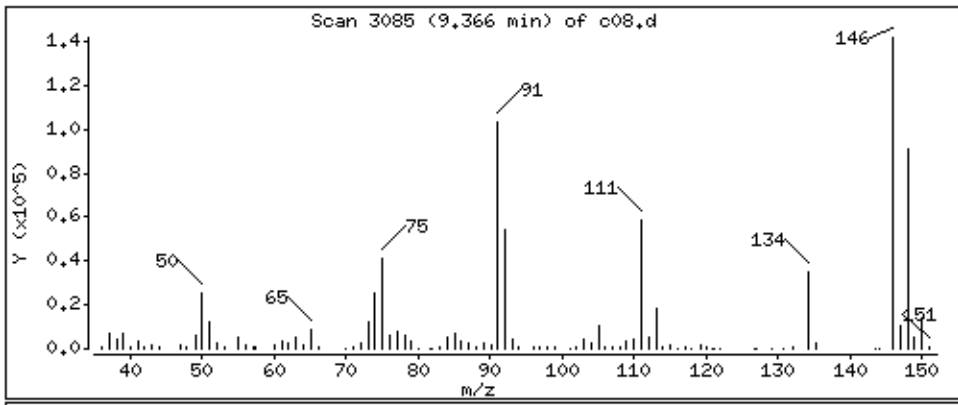
Operator: dae

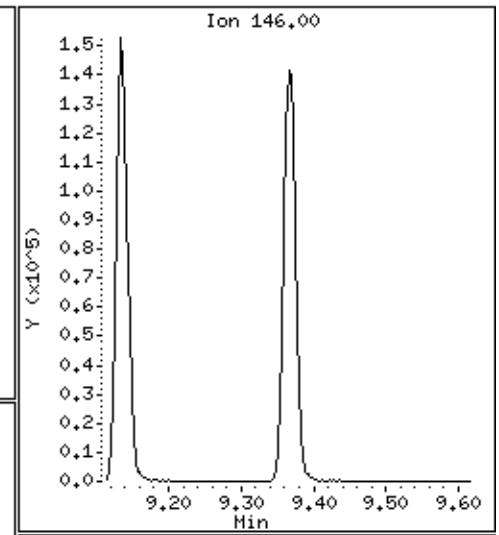
Column phase: DB-624

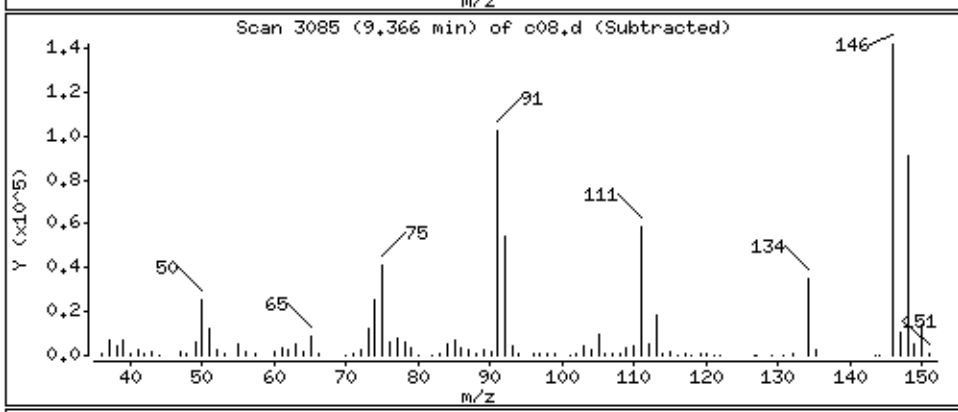
Column diameter: 0.18

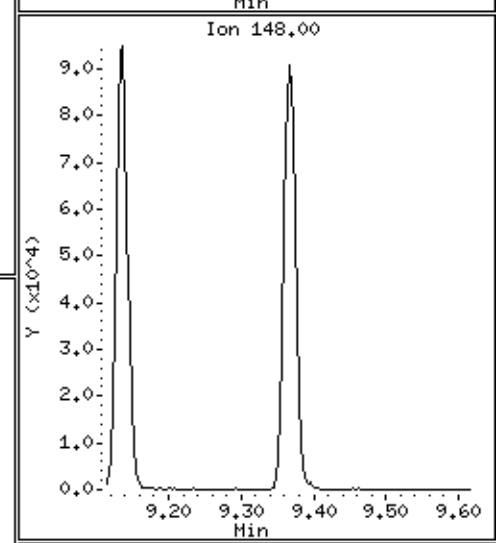
94 1,2-Dichlorobenzene

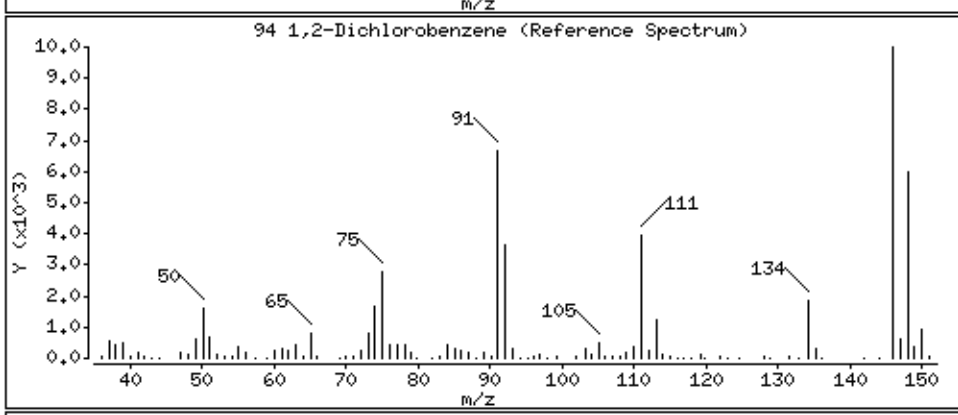
Concentration: 36.7 ppb

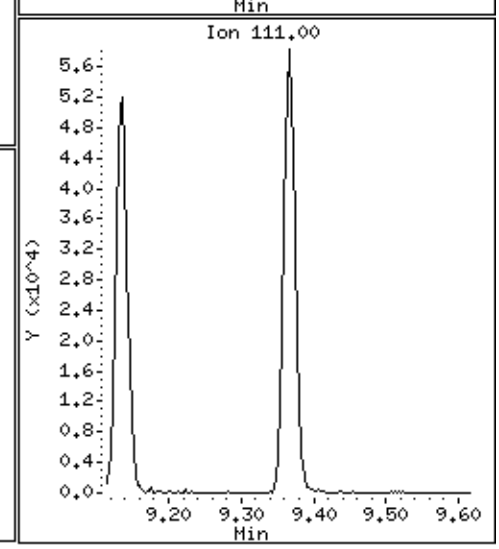


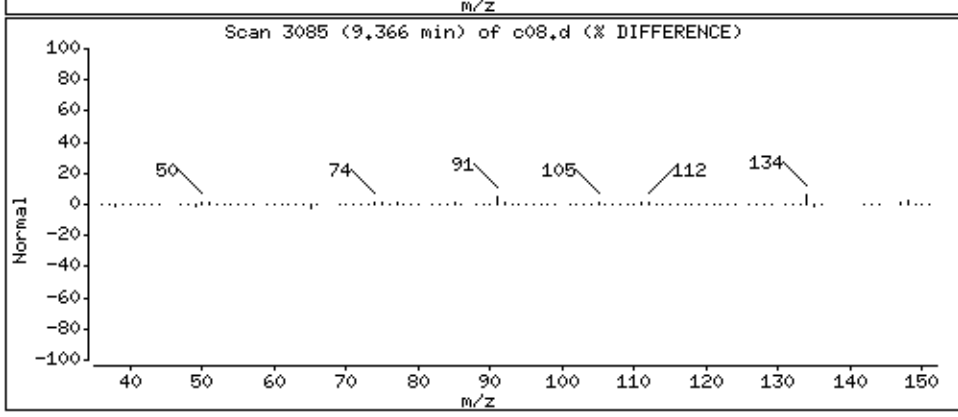












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

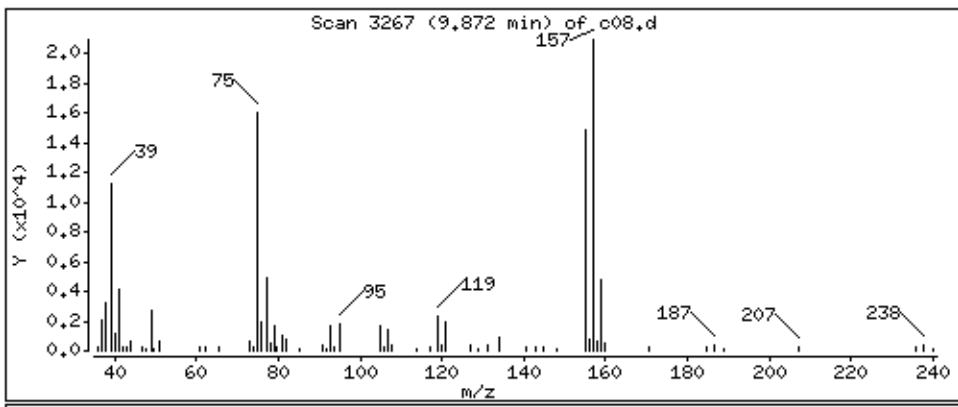
Operator: dae

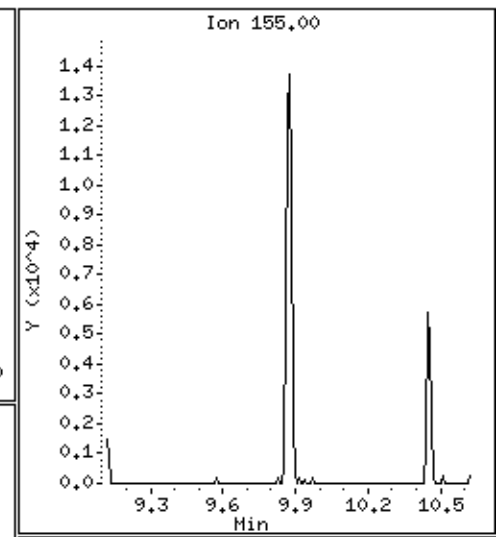
Column phase: DB-624

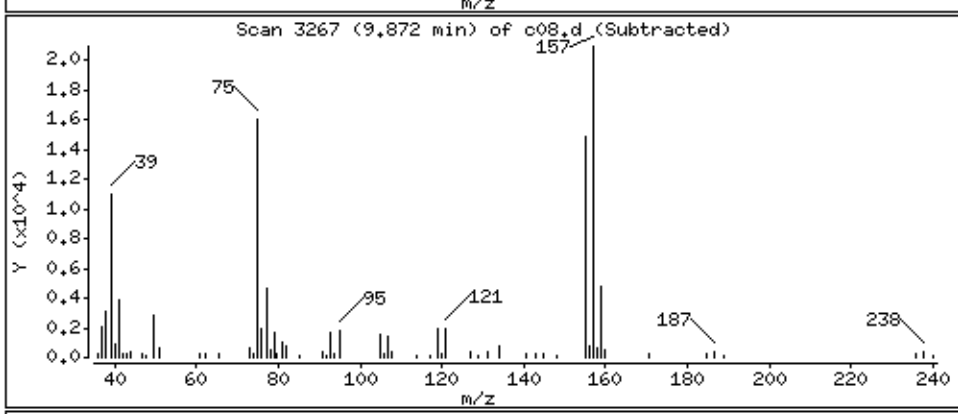
Column diameter: 0.18

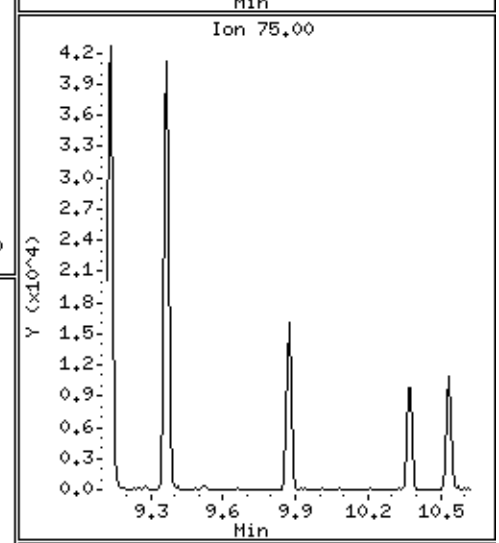
95 1,2-Dibromo-3-chloropropane

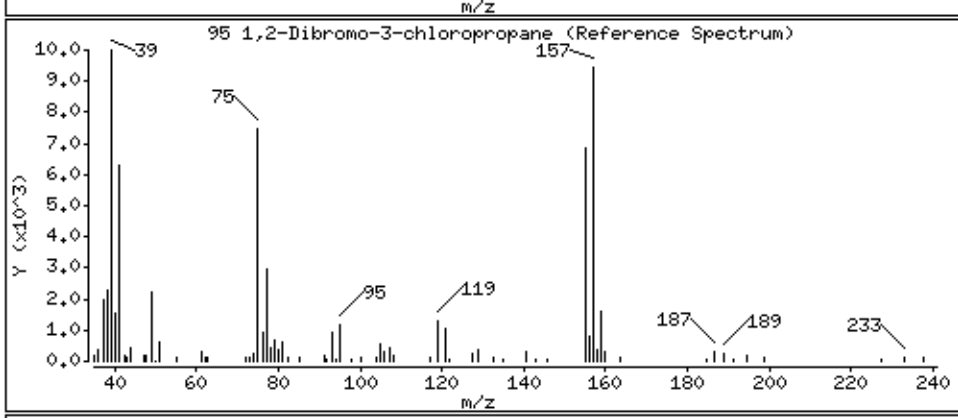
Concentration: 31.3 ppb

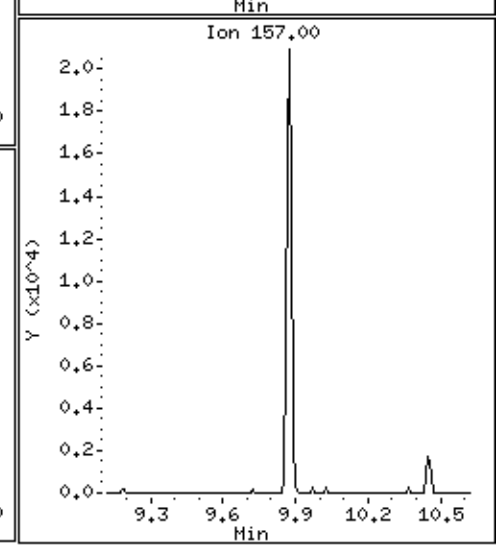


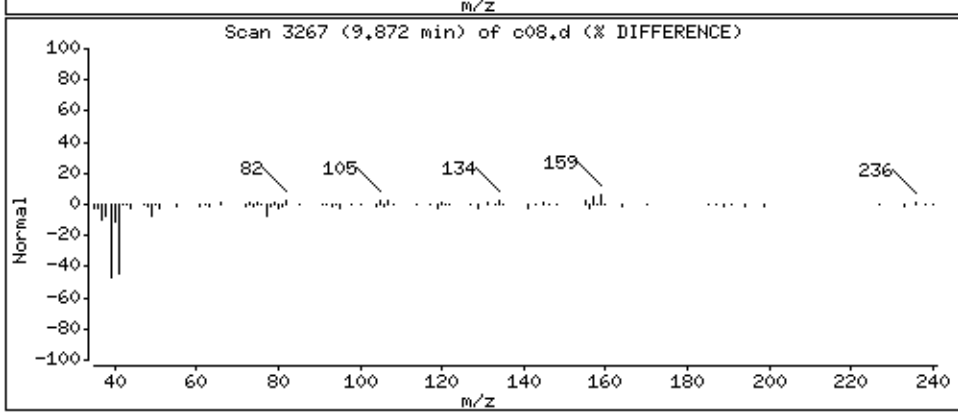












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

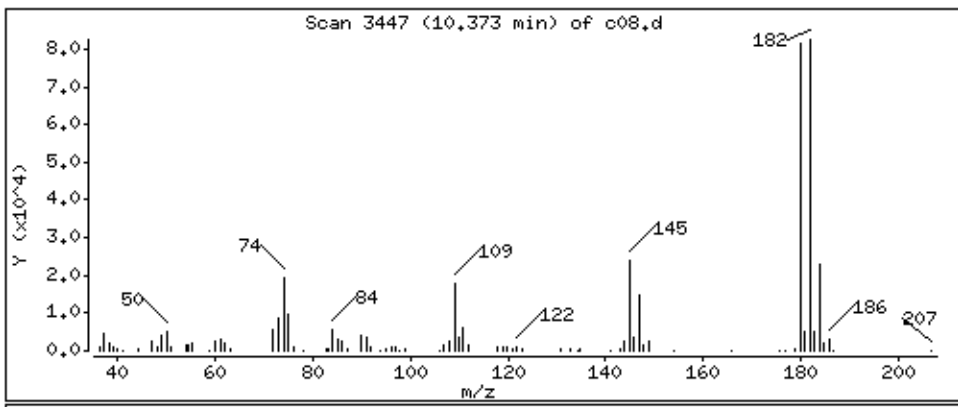
Operator: dae

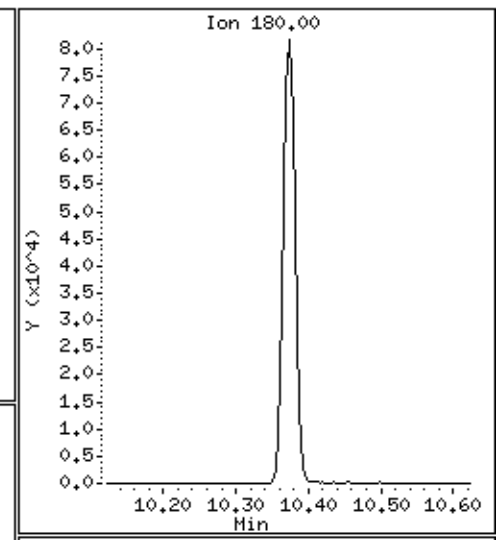
Column phase: DB-624

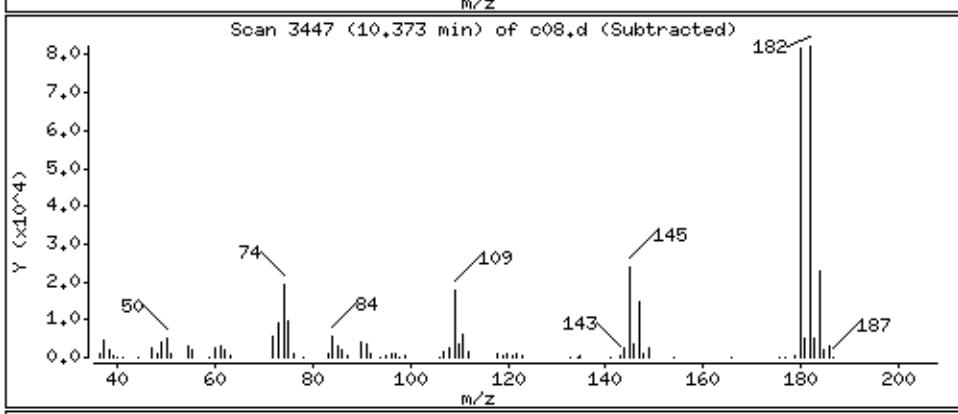
Column diameter: 0.18

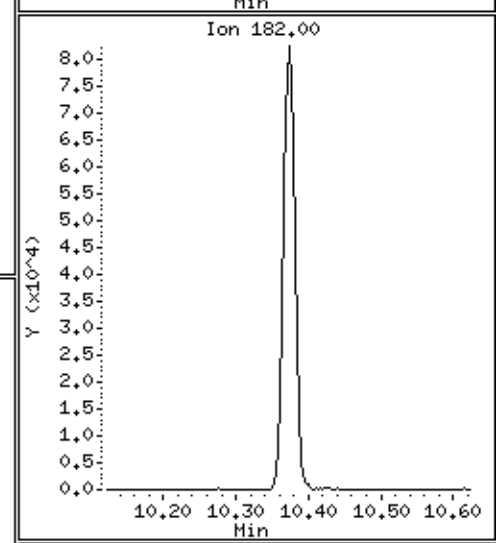
96 1,2,4-Trichlorobenzene

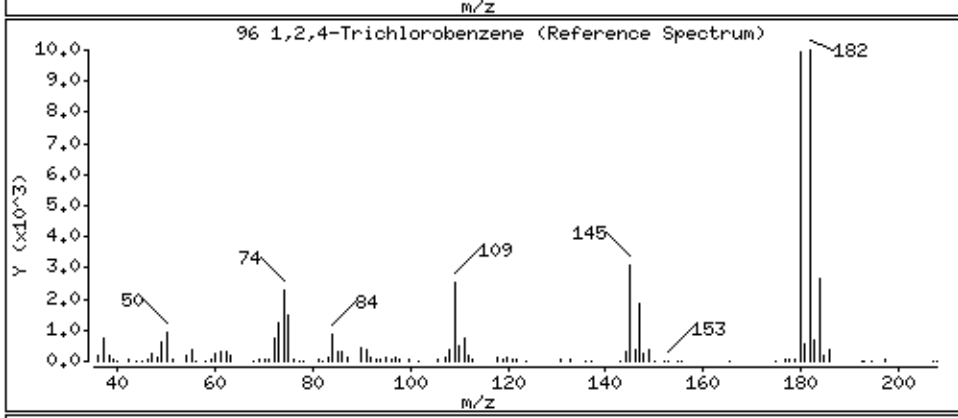
Concentration: 33.3 ppb

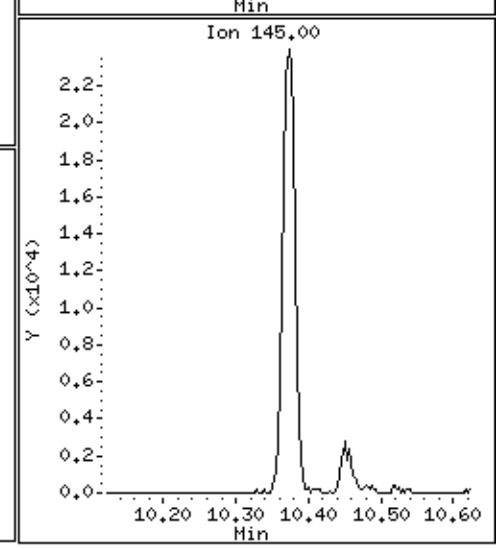


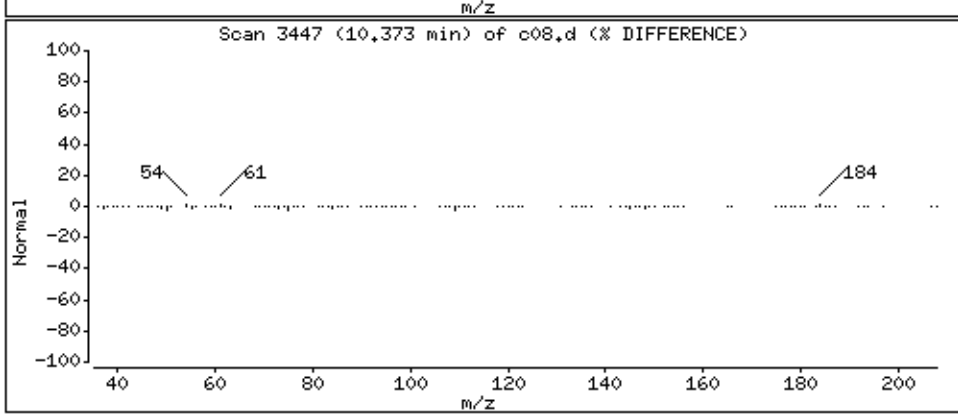












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

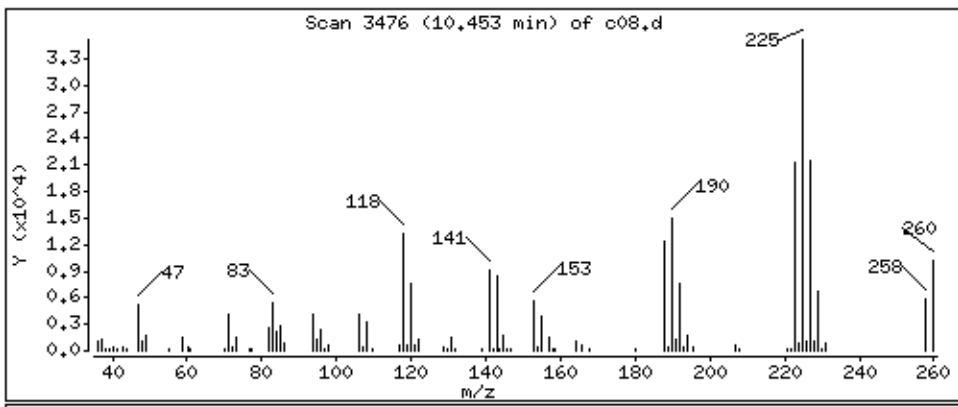
Operator: dae

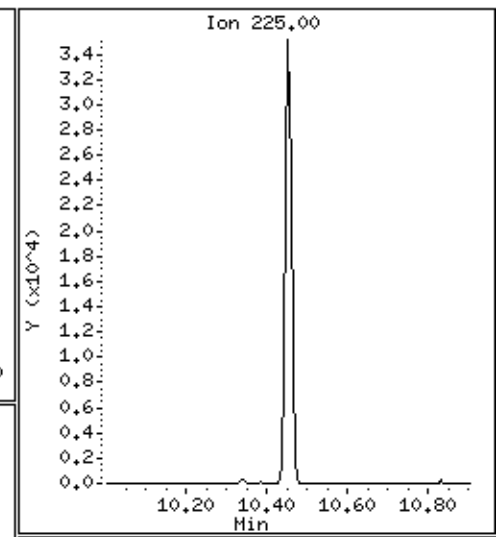
Column phase: DB-624

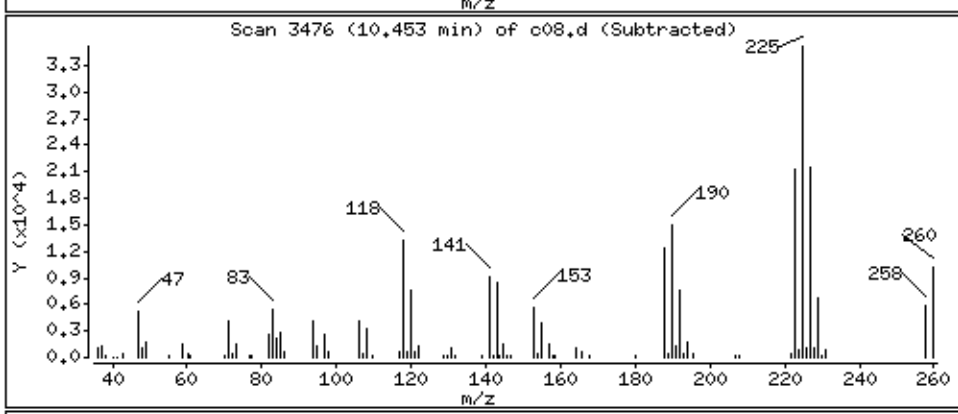
Column diameter: 0.18

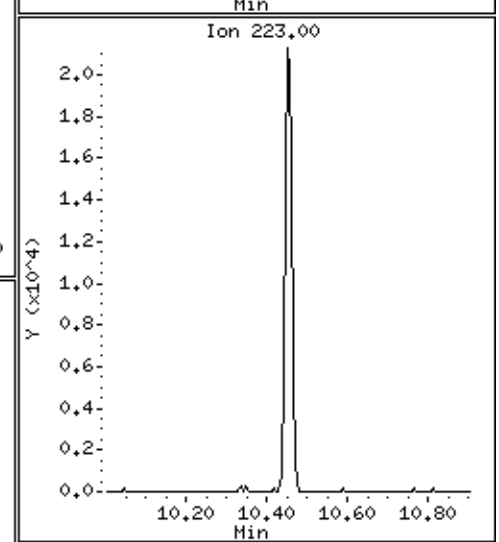
97 Hexachlorobutadiene

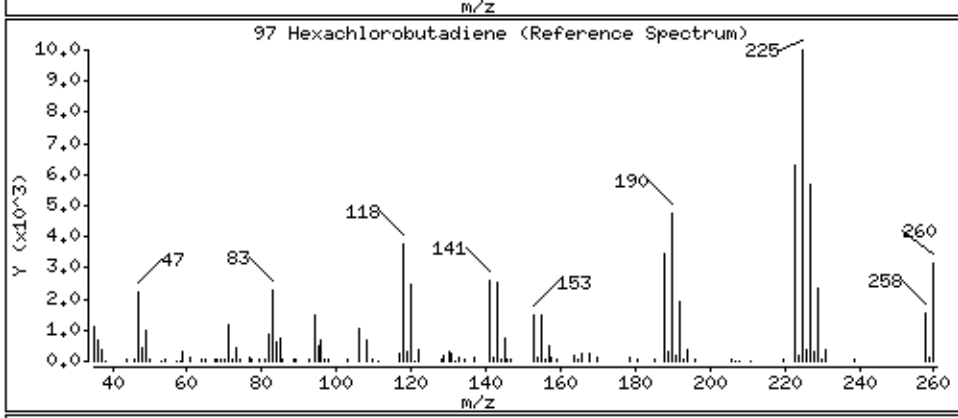
Concentration: 32.2 ppb

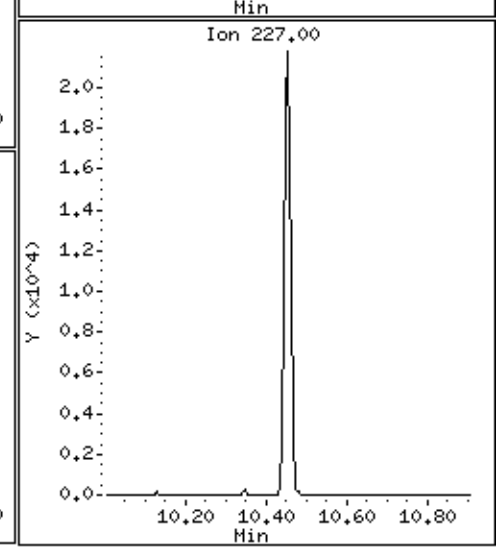


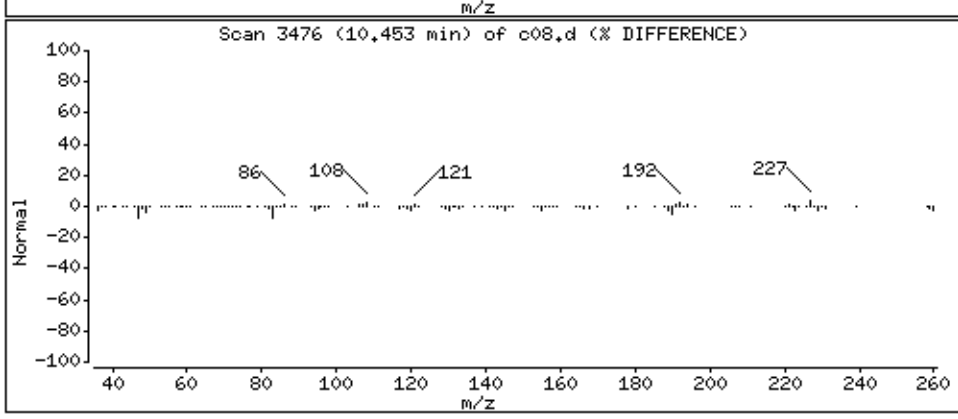












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

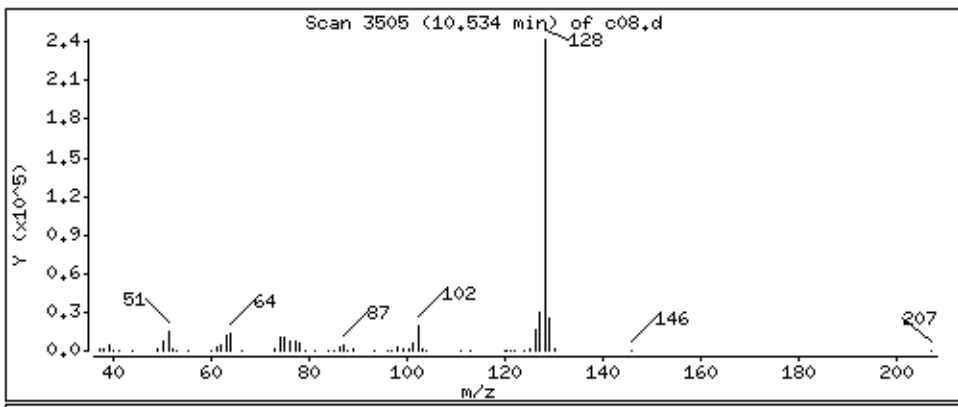
Operator: dae

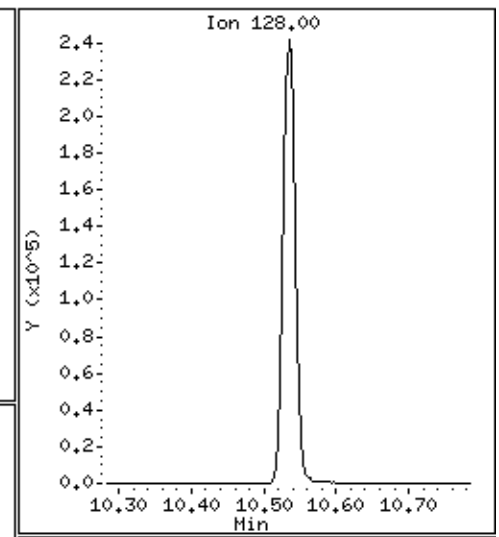
Column phase: DB-624

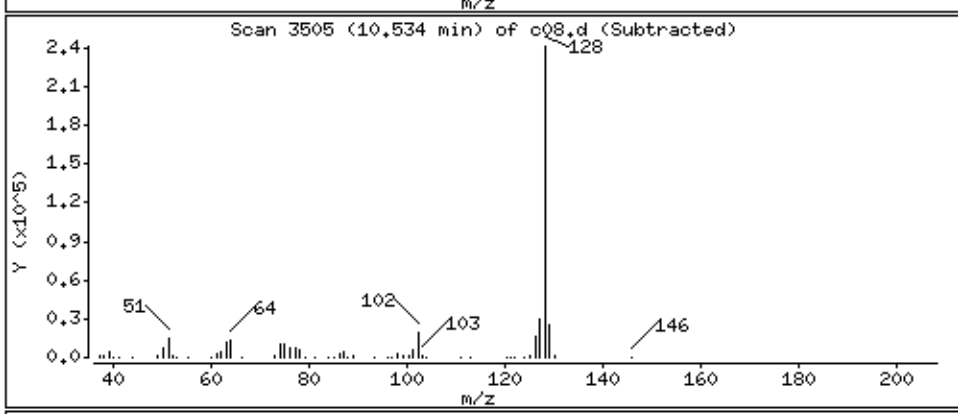
Column diameter: 0.18

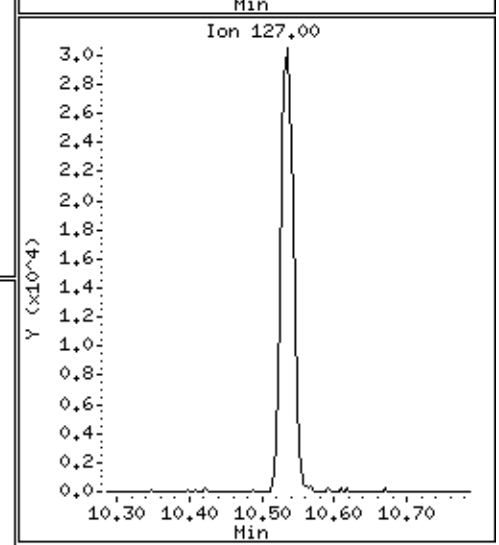
98 Naphthalene

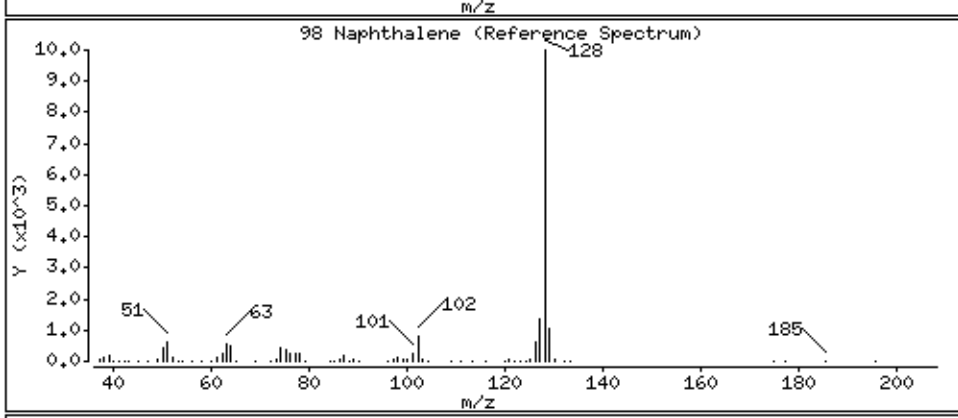
Concentration: 34.1 ppb

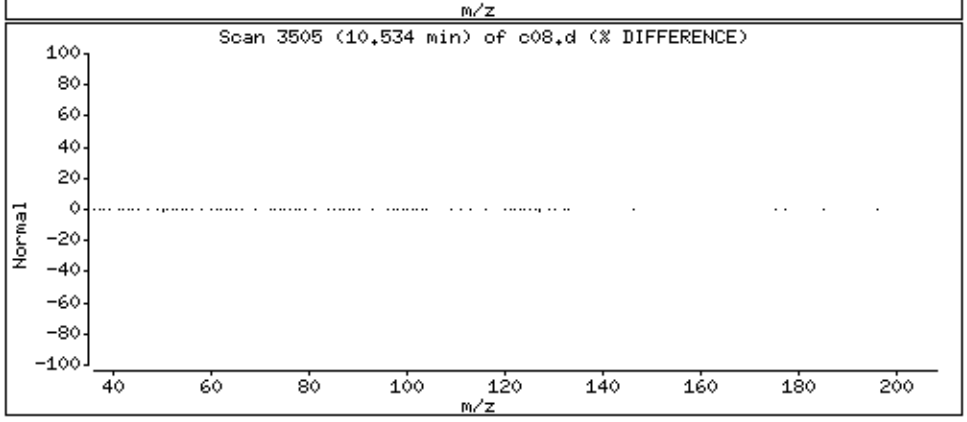












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

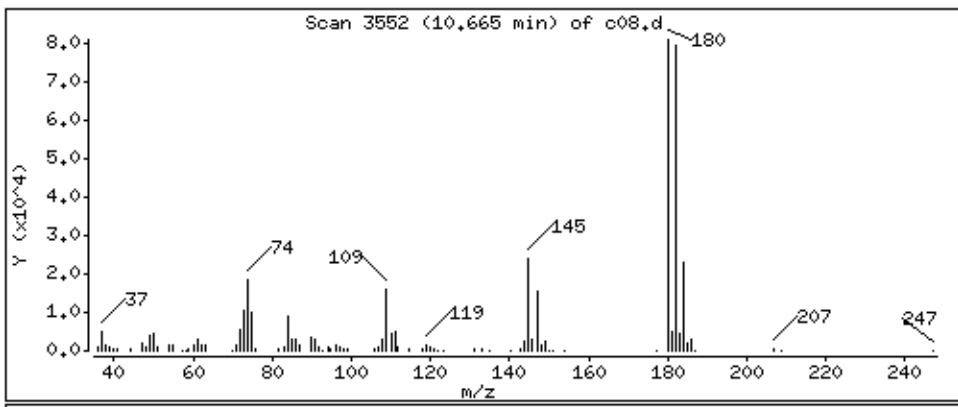
Operator: dae

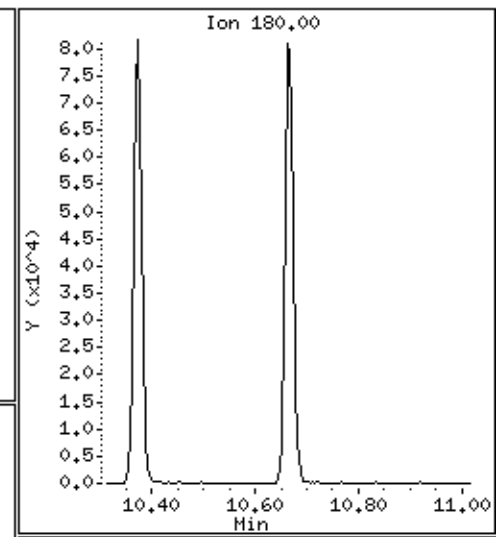
Column phase: DB-624

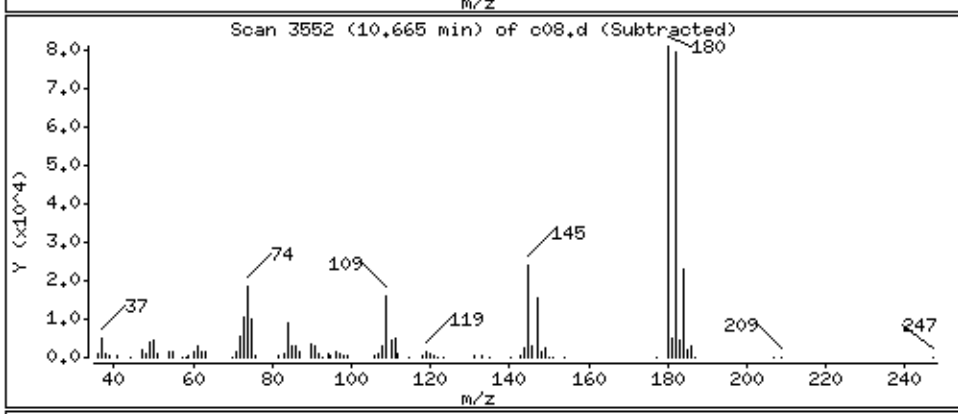
Column diameter: 0.18

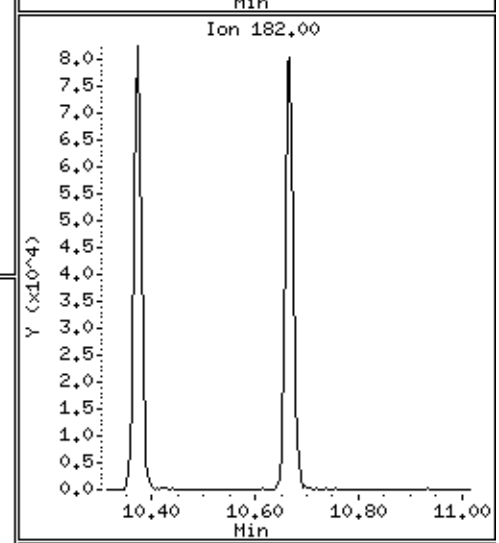
99 1,2,3-Trichlorobenzene

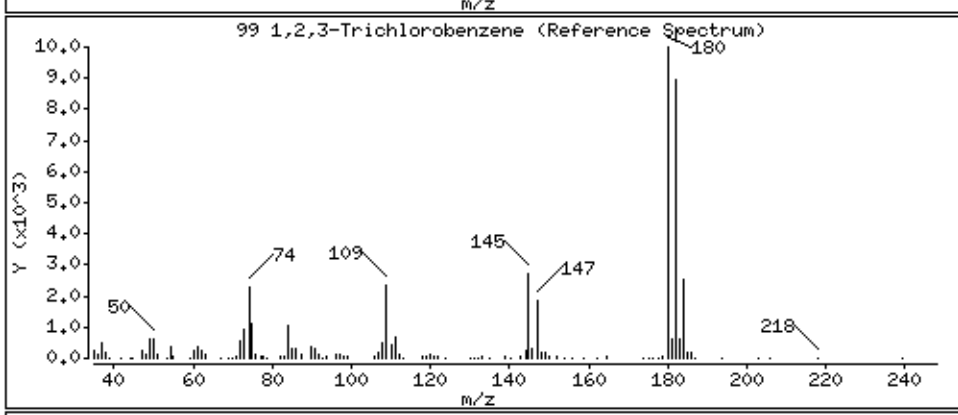
Concentration: 34.6 ppb

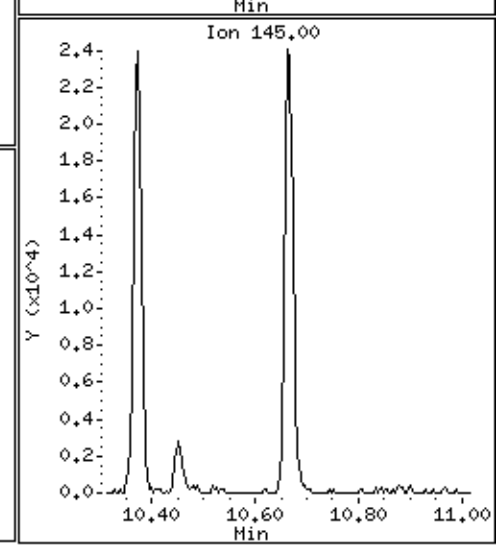


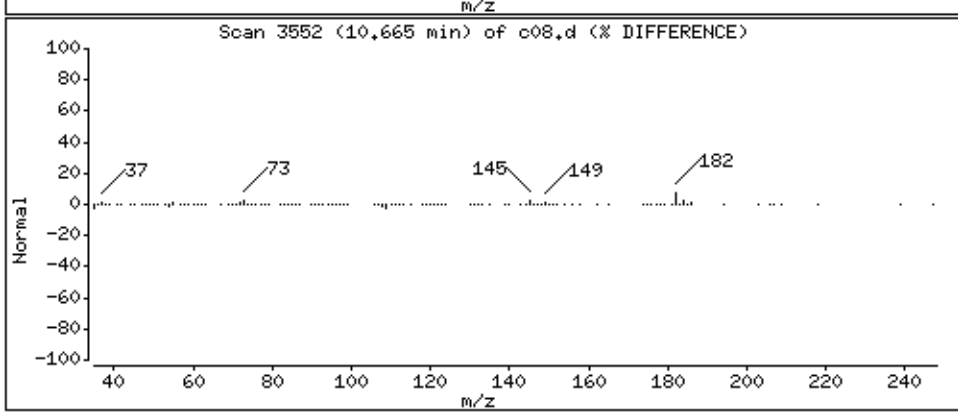












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

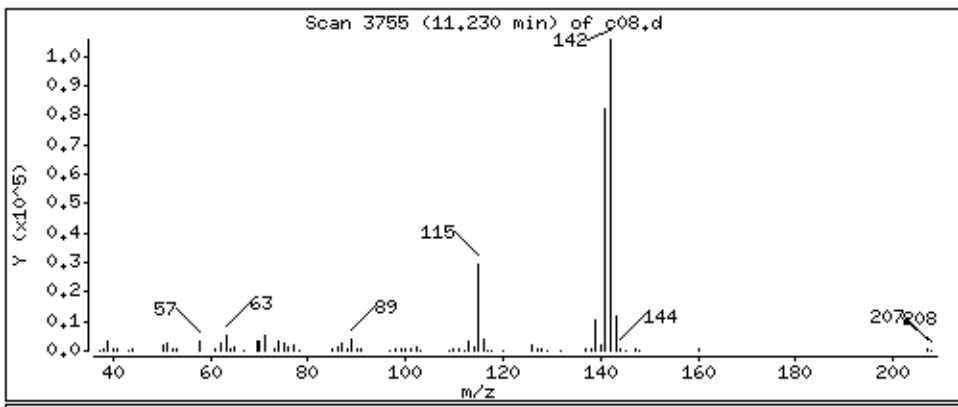
Operator: dae

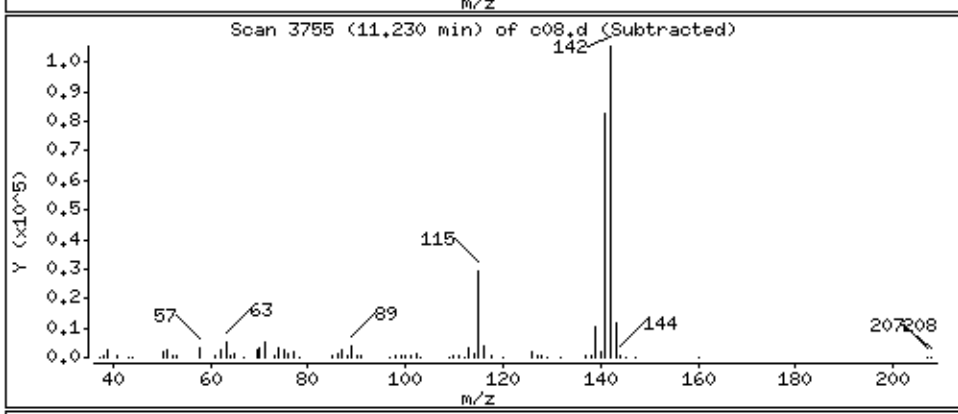
Column phase: DB-624

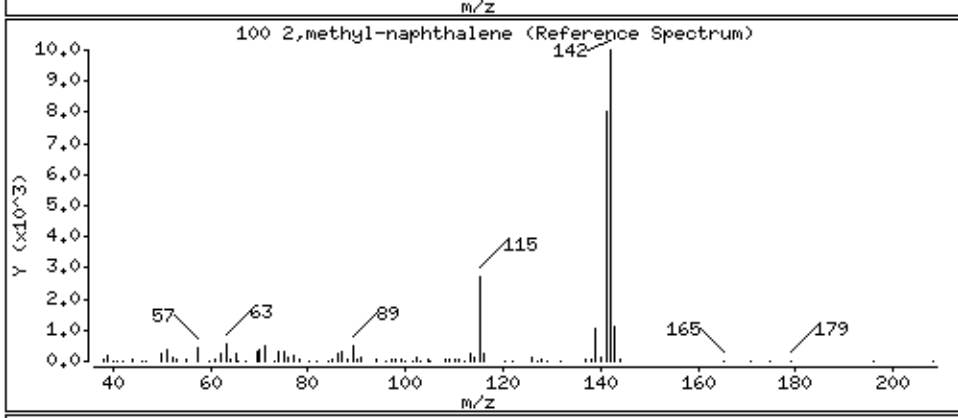
Column diameter: 0.18

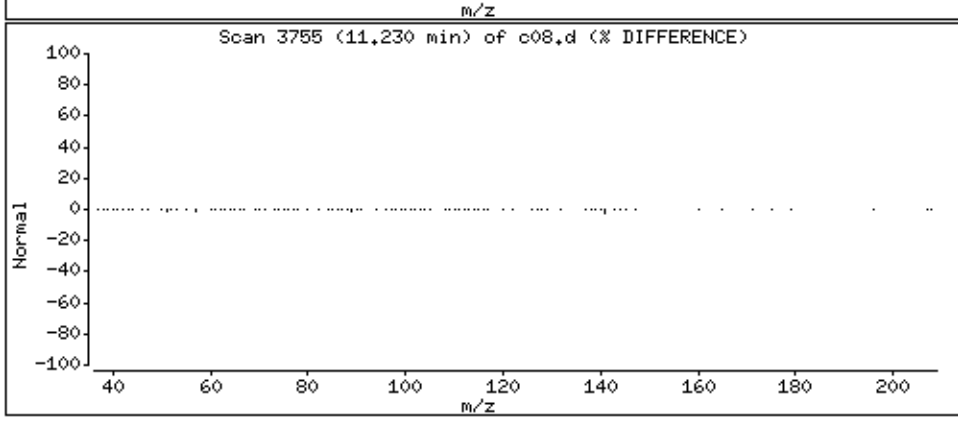
100 2,methyl-naphthalene

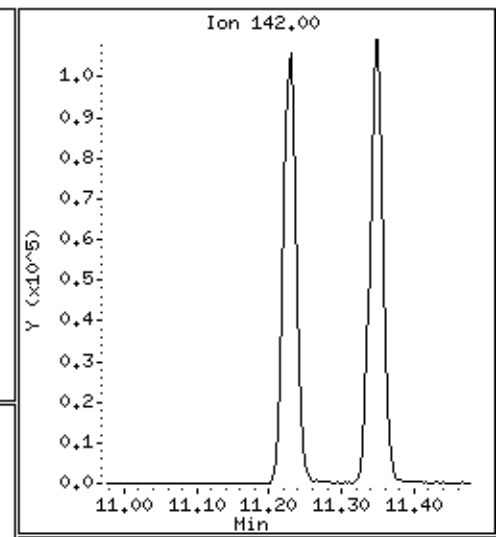
Concentration: 28.4 ppb

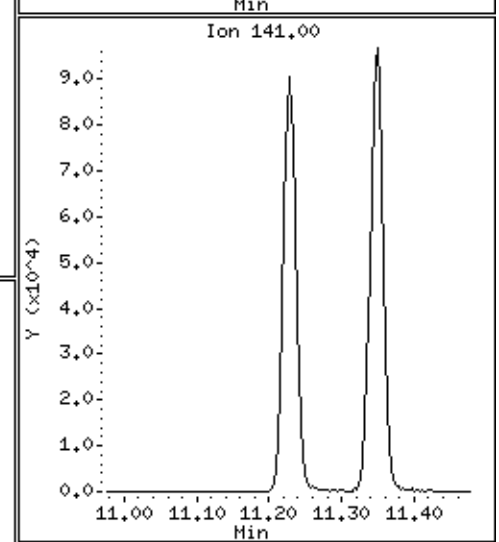


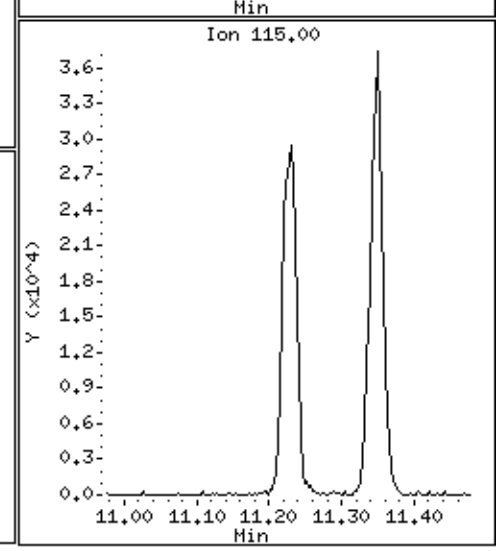












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c08.d

Date : 25-JAN-2017 17:01

Client ID: MW-2MS

Instrument: 50mv2a.i

Sample Info: 1713803,140393:5

Purge Volume: 5.0

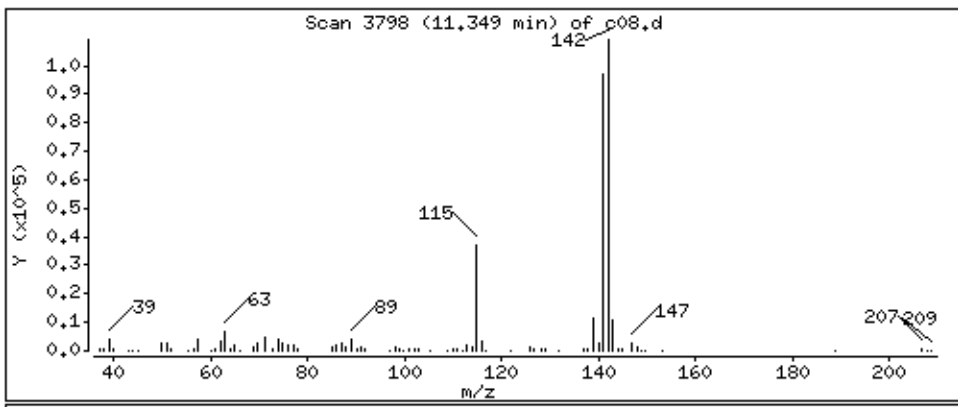
Operator: dae

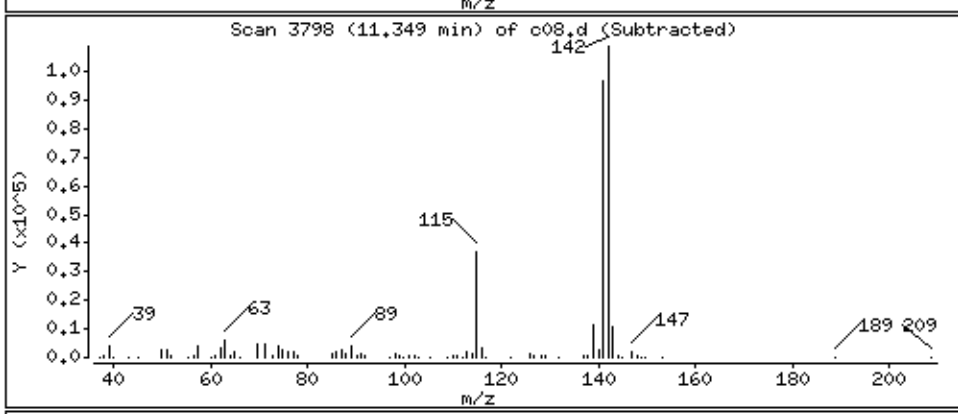
Column phase: DB-624

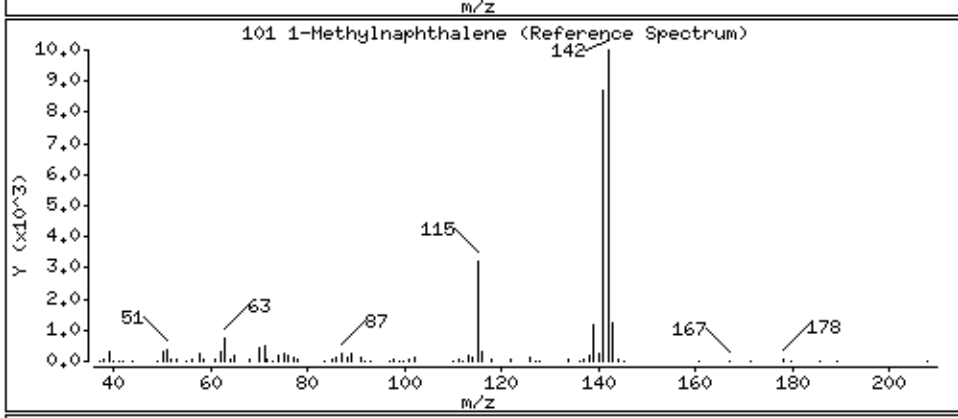
Column diameter: 0.18

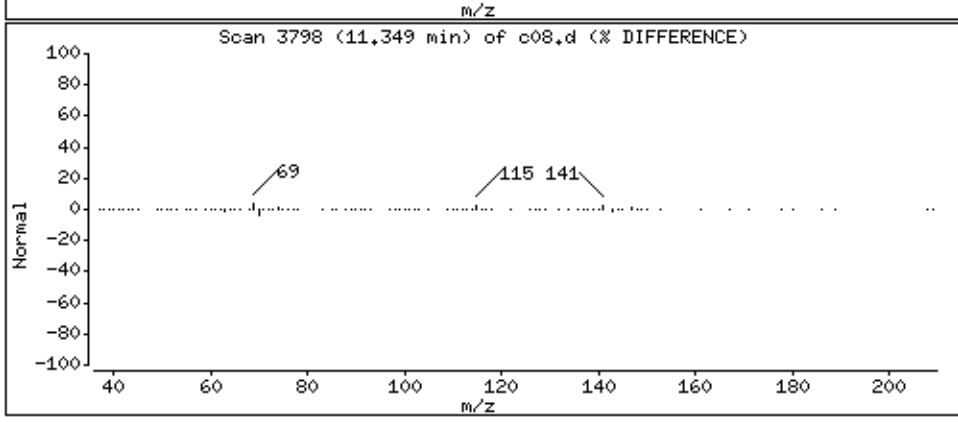
101 1-Methylnaphthalene

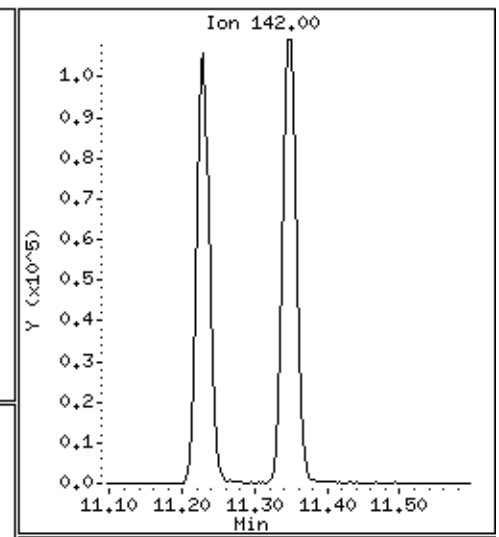
Concentration: 35.3 ppb

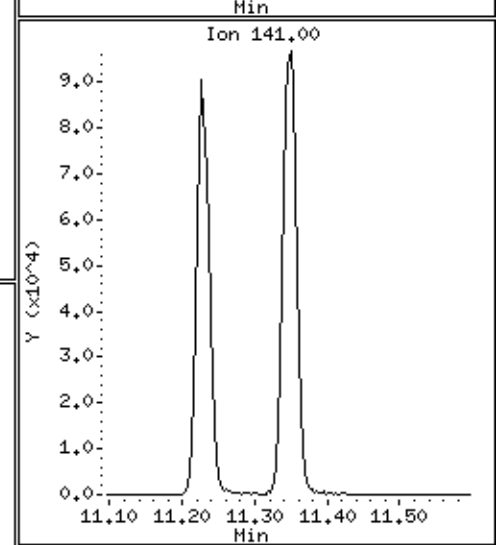


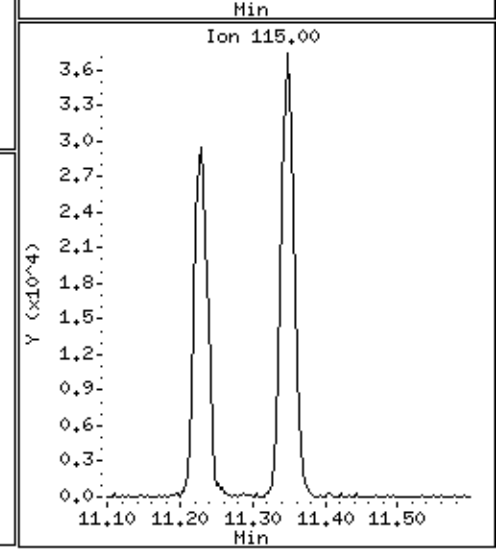












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/c08.d
Injection Date: 25-JAN-2017 17:01
Instrument: 50mv2a.i
Lab Sample ID: 1713803
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 17:34
Lab Sample ID: 1713804
Date Analyzed: 01/25/2017 17:34
Lab File ID: A012417.B\C09.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	203	
107-02-8	Acrolein	837	
107-13-1	Acrylonitrile	155	
71-43-2	Benzene	40.4	
108-86-1	Bromobenzene	39.1	
74-97-5	Bromochloromethane	34.7	
75-27-4	Bromodichloromethane	37.7	
75-25-2	Bromoform	30.6	
74-83-9	Bromomethane	23.7	
78-93-3	2-Butanone (MEK)	174	
104-51-8	n-Butylbenzene	40.2	
135-98-8	sec-Butylbenzene	42.5	
98-06-6	tert-Butylbenzene	35.3	
75-15-0	Carbon disulfide	38.5	
56-23-5	Carbon tetrachloride	40.8	
108-90-7	Chlorobenzene	39.4	
75-00-3	Chloroethane	39.3	
67-66-3	Chloroform	41.1	
74-87-3	Chloromethane	31.2	
95-49-8	2-Chlorotoluene	42.3	
106-43-4	4-Chlorotoluene	41.0	
124-48-1	Dibromochloromethane	35.8	
106-93-4	1,2-Dibromoethane (EDB)	39.4	
74-95-3	Dibromomethane	39.1	
95-50-1	1,2-Dichlorobenzene	39.2	
541-73-1	1,3-Dichlorobenzene	38.4	
106-46-7	1,4-Dichlorobenzene	36.6	
110-57-6	trans-1,4-Dichloro-2-butene	124	
75-71-8	Dichlorodifluoromethane	48.5	
75-34-3	1,1-Dichloroethane	38.5	
107-06-2	1,2-Dichloroethane	39.7	
75-35-4	1,1-Dichloroethene	40.5	
156-59-2	cis-1,2-Dichloroethene	40.2	
156-60-5	trans-1,2-Dichloroethene	39.4	
78-87-5	1,2-Dichloropropane	38.9	
142-28-9	1,3-Dichloropropane	40.8	
594-20-7	2,2-Dichloropropane	29.7	

SAMPLE NO.

MSD

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received: 01/20/2017 16:55
Matrix: Water SDG No.: 50163373
Date Extracted: 01/25/2017 17:34
Lab Sample ID: 1713804
Date Analyzed: 01/25/2017 17:34
Lab File ID: A012417.B\C09.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	41.8	
10061-01-5	cis-1,3-Dichloropropene	35.5	
10061-02-6	trans-1,3-Dichloropropene	35.7	
100-41-4	Ethylbenzene	42.3	
97-63-2	Ethyl methacrylate	158	
87-68-3	Hexachloro-1,3-butadiene	39.9	
110-54-3	n-Hexane	38.4	
591-78-6	2-Hexanone	198	
74-88-4	Iodomethane	38.6	
98-82-8	Isopropylbenzene (Cumene)	42.5	
99-87-6	p-Isopropyltoluene	41.9	
75-09-2	Methylene Chloride	41.8	
90-12-0	1-Methylnaphthalene	41.4	
91-57-6	2-Methylnaphthalene	32.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	183	
1634-04-4	Methyl-tert-butyl ether	36.3	
91-20-3	Naphthalene	37.9	
103-65-1	n-Propylbenzene	45.8	
100-42-5	Styrene	40.4	
630-20-6	1,1,1,2-Tetrachloroethane	38.8	
79-34-5	1,1,2,2-Tetrachloroethane	41.9	
127-18-4	Tetrachloroethene	35.6	
108-88-3	Toluene	42.7	
87-61-6	1,2,3-Trichlorobenzene	39.8	
120-82-1	1,2,4-Trichlorobenzene	38.3	
71-55-6	1,1,1-Trichloroethane	38.9	
79-00-5	1,1,2-Trichloroethane	38.8	
79-01-6	Trichloroethene	40.9	
75-69-4	Trichlorofluoromethane	50.0	
96-18-4	1,2,3-Trichloropropane	41.1	
95-63-6	1,2,4-Trimethylbenzene	42.5	
108-67-8	1,3,5-Trimethylbenzene	42.5	
108-05-4	Vinyl acetate	90.6	
75-01-4	Vinyl chloride	44.8	
1330-20-7	Xylene (Total)	131	
179601-23-1	m&p-Xylene	87.4	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d
Lab Smp Id: 1713804 Client Smp ID: MW-2MSD
Inj Date : 25-JAN-2017 17:34
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1713804,140393:5
Misc Info : 99150
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012417.b\-a8260_a_c.m
Meth Date : 25-Jan-2017 22:21 50mv2a.i Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 32 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.877	0.871	(0.215)	94281	48.5378	48.5	
2 Chloromethane	50	0.963	0.952	(0.237)	68570	31.1686	31.2	
3 Vinyl Chloride	62	1.002	0.999	(0.246)	119162	44.7733	44.8	
4 Bromomethane	94	1.144	1.138	(0.281)	30468	23.6842	23.7	
5 Chloroethane	64	1.188	1.183	(0.292)	66578	39.3454	39.3	
6 Trichlorofluoromethane	101	1.299	1.294	(0.319)	165158	50.0342	50.0	
7 Diethyl ether	74	1.422	1.416	(0.349)	58800	37.1775	37.2	
8 1,2-dichlorotrifluoroethane	67	1.436	1.433	(0.353)	116923	38.8802	38.9	
9 Acrolein	56	1.491	1.489	(0.366)	296390	836.785	837	
10 1,1,2trichlorotrifluoroethane	101	1.541	1.536	(0.379)	98378	39.5887	39.6(R)	
11 1,1-Dichloroethene	96	1.547	1.541	(0.380)	82401	40.5074	40.5	
12 Acetone	43	1.558	1.553	(0.383)	156601	203.294	203	
13 Iodomethane	142	1.631	1.625	(0.401)	109598	38.5664	38.6(R)	
14 Carbon Disulfide	76	1.675	1.672	(0.412)	242392	38.4662	38.5	
15 Methyl Acetate	43	1.722	1.717	(0.423)	114618	41.1519	41.2	
16 Acetonitrile	39	1.736	1.731	(0.427)	178041	32.9803	33.0	
17 allyl chloride	41	1.736	1.731	(0.427)	256065	67.5253	67.5(R)	
18 Methylene Chloride	84	1.809	1.806	(0.444)	84127	41.7934	41.8	
19 tert-Butyl Alcohol	59	1.853	1.853	(0.455)	17474	61.9947	62.0	
20 Acrylonitrile	53	1.945	1.939	(0.478)	150585	154.572	154	
21 Methyl-tert-butyl ether	73	1.967	1.964	(0.483)	265826	36.3220	36.3	
22 1,2-Dichloroethene (trans)	96	1.978	1.973	(0.486)	85525	39.4353	39.4	

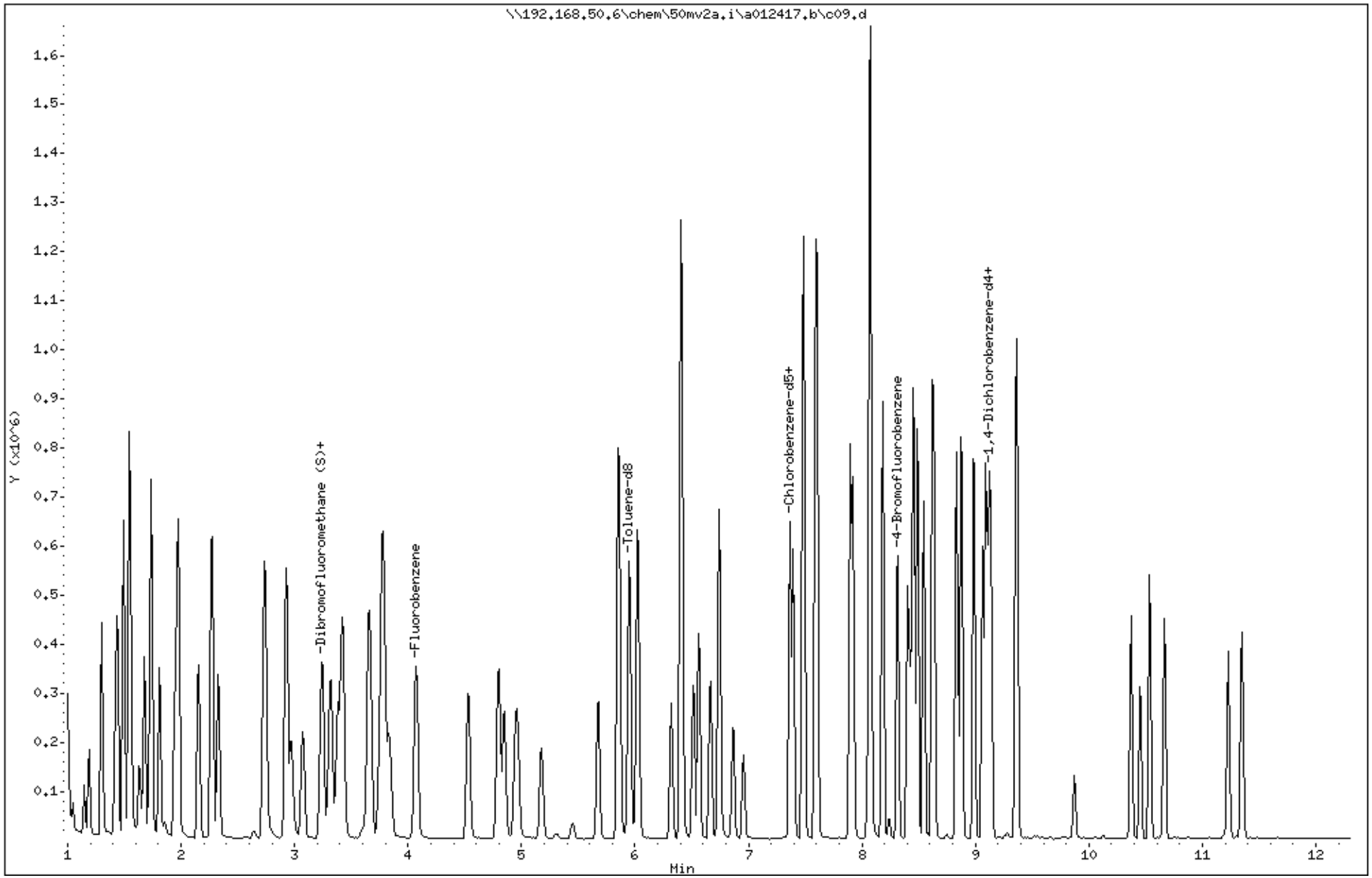
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 n-Hexane	57	2.154	2.148	(0.529)	119111	38.3898	38.4	
24 Vinyl Acetate	43	2.268	2.262	(0.557)	439015	90.5871	90.6(R)	
25 1,1-Dichloroethane	63	2.273	2.268	(0.559)	152708	38.5234	38.5	
26 Chloroprene	53	2.329	2.323	(0.572)	145034	41.3241	41.3	
27 Ethyl acetate	88	2.741	2.763	(0.673)	1277	9.34813	9.35(Q)	
28 2-Butanone	72	2.727	2.724	(0.670)	58143	173.621	174(Q)	
29 1,2-Dichloroethene (cis)	96	2.738	2.730	(0.673)	96025	40.1625	40.2(Q)	
30 2,2-Dichloropropane	77	2.741	2.738	(0.673)	100614	29.7045	29.7	
31 Propionitrile	54	2.782	2.782	(0.684)	11623	29.1582	29.2(Q)	
32 Methacrylonitrile	41	2.927	2.924	(0.719)	242233	156.346	156	
33 Bromochloromethane	49	2.963	2.960	(0.728)	64004	34.6865	34.7(R)	
34 Tetrahydrofuran	42	2.983	2.977	(0.733)	25957	34.9886	35.0	
35 Chloroform	83	3.072	3.063	(0.755)	154162	41.1090	41.1	
$ 36 Dibromofluoromethane (S)	113	3.247	3.239	(0.798)	84126	49.6143	49.6	
37 1,1,1-Trichloroethane	97	3.241	3.236	(0.796)	144840	38.9373	38.9	
38 cyclohexane	56	3.319	3.311	(0.815)	158023	41.0525	41.0(R)	
150 n-butyl chloride	56	3.383	3.378	(0.831)	200744	41.9669	42.0	
39 Carbon Tetrachloride	117	3.414	3.408	(0.839)	132520	40.8191	40.8	
40 1,1-Dichloropropene	75	3.419	3.417	(0.840)	132791	41.7960	41.8	
41 Benzene	78	3.662	3.653	(0.900)	363422	40.3825	40.4	
42 1,2-Dichloroethane	62	3.748	3.742	(0.921)	122538	39.6816	39.7	
43 2,2,4-Trimethylpentane	57	3.831	3.828	(0.941)	244680	42.2720	42.3	
44 Isobutyl alcohol	43	3.595	3.600	(0.883)	16360	0.78746	0.787	
* 45 Fluorobenzene	96	4.071	4.065	(1.000)	336182	50.0000		
47 Trichloroethene	95	4.532	4.527	(1.113)	90731	40.8601	40.9	
48 Methylcyclohexane	55	4.797	4.791	(1.178)	109852	42.1092	42.1(R)	
49 1,2-Dichloropropane	63	4.847	4.838	(1.191)	87901	38.8885	38.9	
50 1,4-Dioxane	88	4.953	4.953	(1.217)	13219	495.265	495	
51 Dibromomethane	93	4.944	4.939	(1.215)	55016	39.0525	39.0	
52 Methyl methacrylate	69	4.964	4.964	(1.219)	74668	39.1915	39.2	
53 Bromodichloromethane	83	5.178	5.170	(1.272)	108248	37.6936	37.7	
55 cis-1,3-Dichloropropene	75	5.676	5.673	(0.770)	130544	35.5380	35.5	
56 4-Methyl-2-Pentanone	43	5.854	5.851	(0.795)	459401	183.465	183	
$ 57 Toluene-d8	98	5.949	5.946	(0.807)	328475	49.6969	49.7	
58 Toluene	91	6.021	6.021	(0.817)	397197	42.6584	42.6	
59 trans-1,3-Dichloropropene	75	6.319	6.316	(0.858)	118891	35.7255	35.7	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	529068	157.694	158	
61 1,1,2-Trichloroethane	83	6.516	6.513	(0.884)	66321	38.8038	38.8	
62 Tetrachloroethene	166	6.561	6.561	(0.890)	102960	35.5848	35.6	
63 1,3-Dichloropropane	76	6.664	6.661	(0.904)	144369	40.7949	40.8	
64 2-Hexanone	43	6.741	6.739	(0.915)	322517	197.643	198	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	85607	35.8305	35.8(R)	
66 1,2-Dibromoethane	107	6.956	6.953	(0.944)	84304	39.3824	39.4	
* 67 Chlorobenzene-d5	117	7.367	7.365	(1.000)	254591	50.0000		
68 Chlorobenzene	112	7.393	7.390	(1.003)	233094	39.4192	39.4	
69 1,1,1,2-Tetrachloroethane	131	7.479	7.479	(1.015)	87332	38.7997	38.8	
70 Ethylbenzene	106	7.484	7.484	(1.016)	136059	42.2804	42.3	
71 m&p-Xylene	106	7.596	7.596	(1.031)	339733	87.3893	87.4	
72 o-Xylene	106	7.896	7.896	(1.072)	155931	43.5666	43.6	
73 Styrene	104	7.918	7.916	(1.075)	249229	40.3779	40.4	
74 Bromoform	173	8.055	8.052	(0.883)	56553	30.6076	30.6	
75 Isopropylbenzene	105	8.183	8.183	(1.111)	385757	42.5335	42.5	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	114751	50.6887	50.7	
77 n-amyl acetate	70	8.071	8.071	(1.096)	244231	141.809	142	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.402	8.403	(1.140)	138894	39.1265	39.1	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	106668	41.9071	41.9	
80 trans-1,4-Dichloro-2-butene	53	8.450	8.450	(1.147)	96778	123.940	124(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.928)	36827	41.0769	41.1(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	419627	45.8043	45.8	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	243071	42.3280	42.3	
84 1,3,5-Trimethylbenzene	105	8.620	8.620	(0.945)	288028	42.4964	42.5	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	87840	40.9591	41.0	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	252976	35.2615	35.3	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	298241	42.5334	42.5	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	350994	42.4518	42.4	
89 1,3-Dichlorobenzene	146	9.065	9.065	(0.994)	165921	38.3900	38.4	
90 p-Isopropyltoluene	119	9.092	9.090	(0.997)	287641	41.9423	41.9	
* 91 1,4-Dichlorobenzene-d4	152	9.118	9.118	(1.000)	126599	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.137	(1.002)	171527	36.6219	36.6(R)	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	229953	40.2376	40.2	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	164686	39.2437	39.2	
95 1,2-Dibromo-3-chloropropane	155	9.874	9.872	(1.083)	17739	32.9735	33.0(R)	
96 1,2,4-Trichlorobenzene	180	10.372	10.372	(1.138)	101031	38.2939	38.3	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	43572	39.8708	39.9	
98 Naphthalene	128	10.534	10.534	(1.155)	294737	37.9226	37.9	
99 1,2,3-Trichlorobenzene	180	10.664	10.664	(1.170)	100477	39.8077	39.8	
100 2,methyl-naphthalene	142	11.229	11.226	(1.232)	144032	32.8384	32.8	
101 1-Methylnaphthalene	142	11.349	11.346	(1.245)	160807	41.3667	41.4	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d
Date : 25-JAN-2017 17:34
Client ID: MW-2MSD
Instrument: 50mv2a.i
Sample Info: 1713804,140393:5
Purge Volume: 5.0
Operator: dae
Column phase: DB-624
Column diameter: 0.18



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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

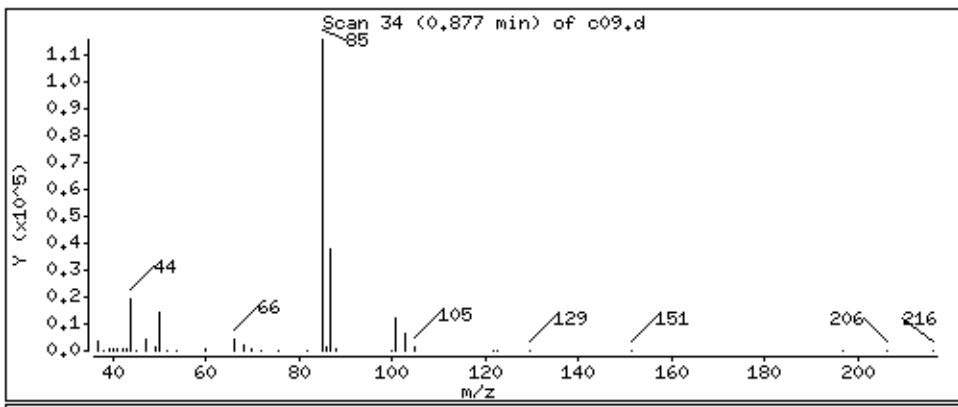
Operator: dae

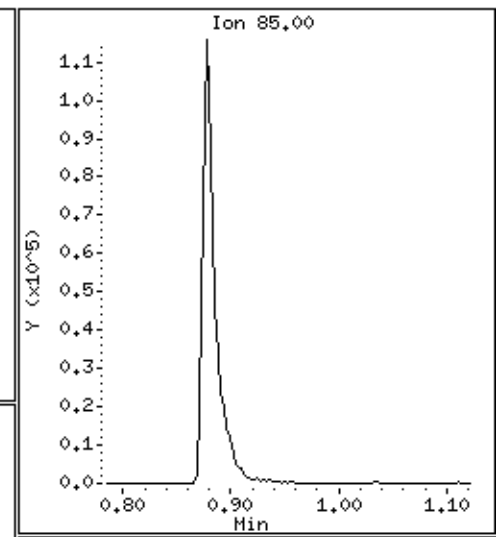
Column phase: DB-624

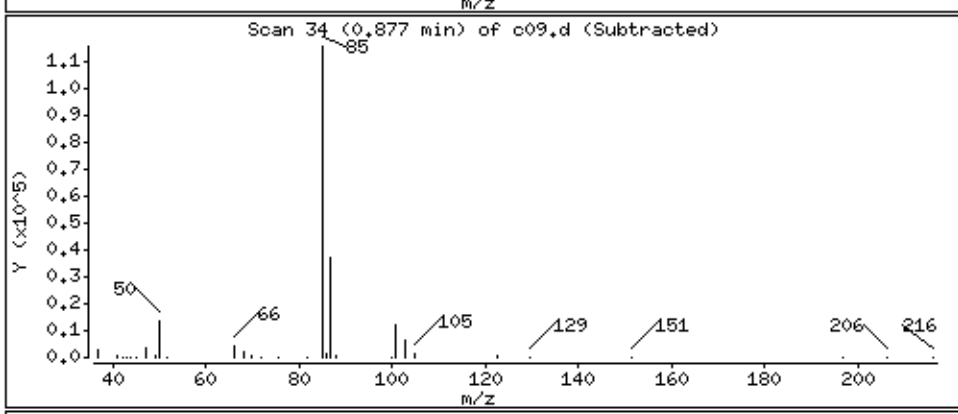
Column diameter: 0.18

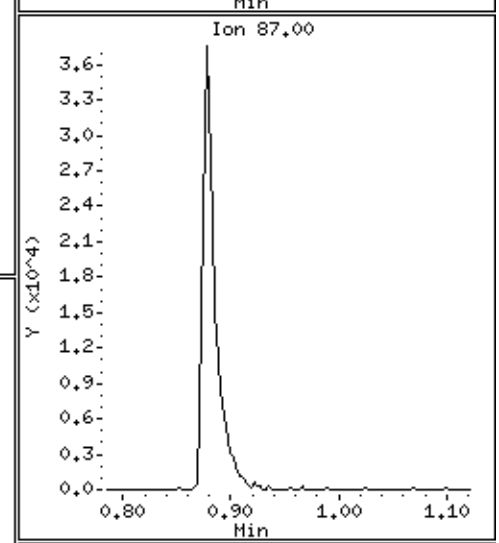
1 Dichlorodifluoromethane

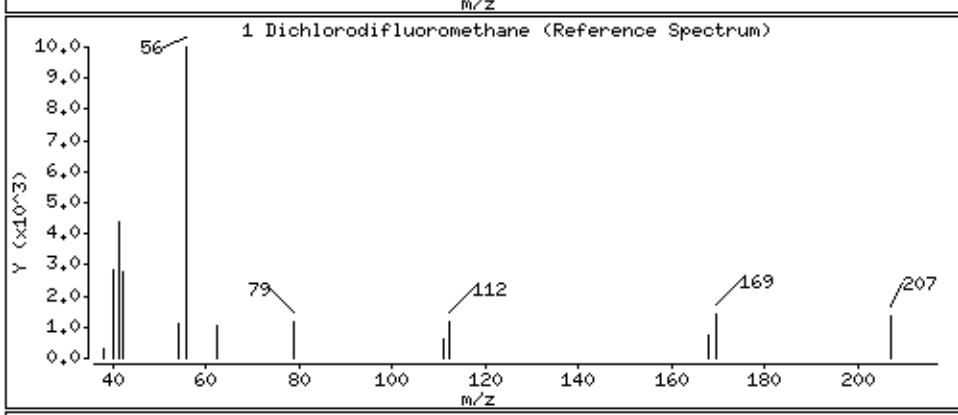
Concentration: 48.5 ppb

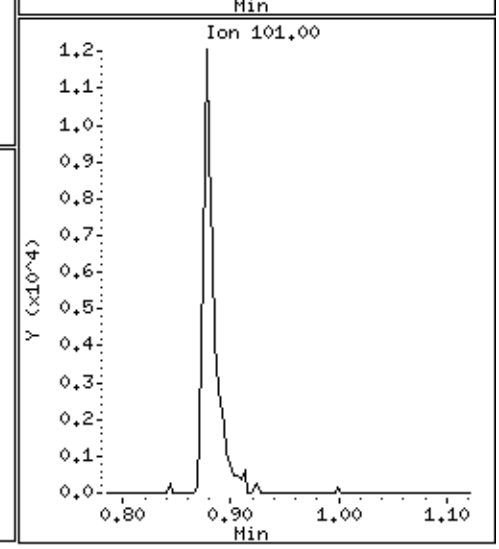


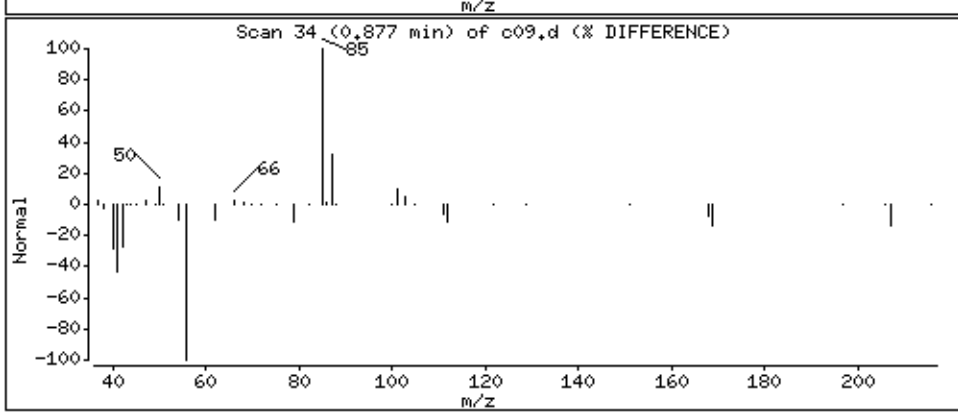












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

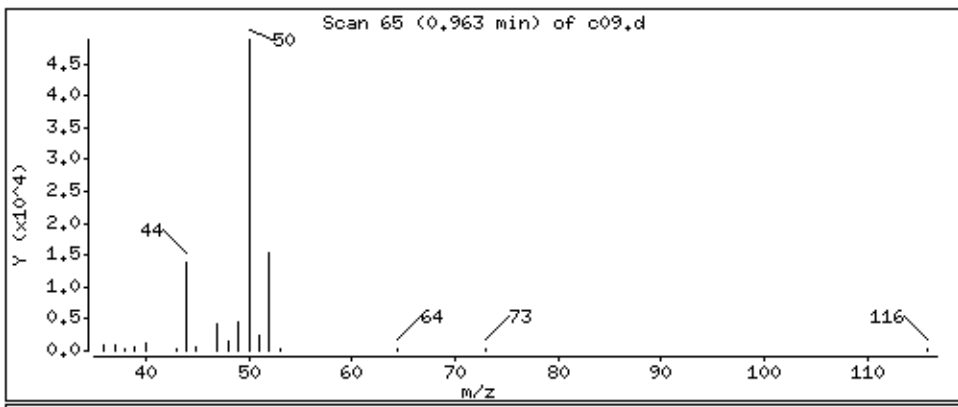
Operator: dae

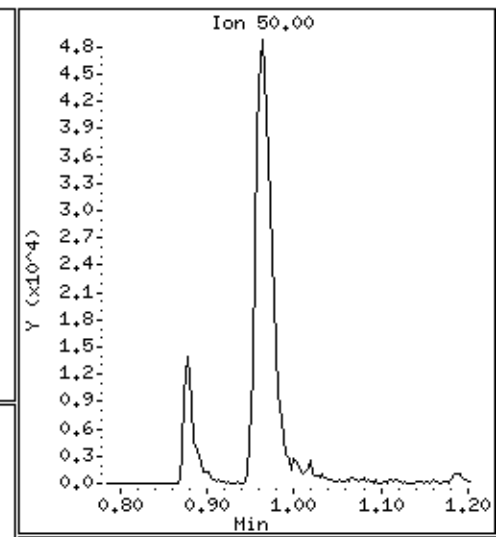
Column phase: DB-624

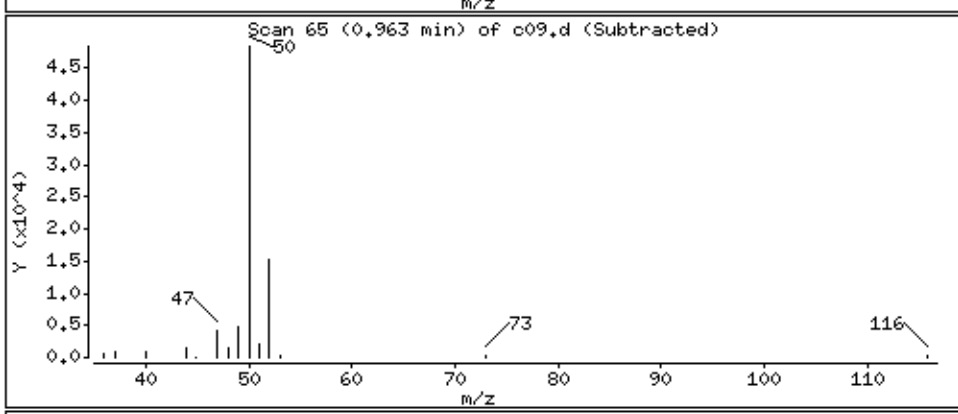
Column diameter: 0.18

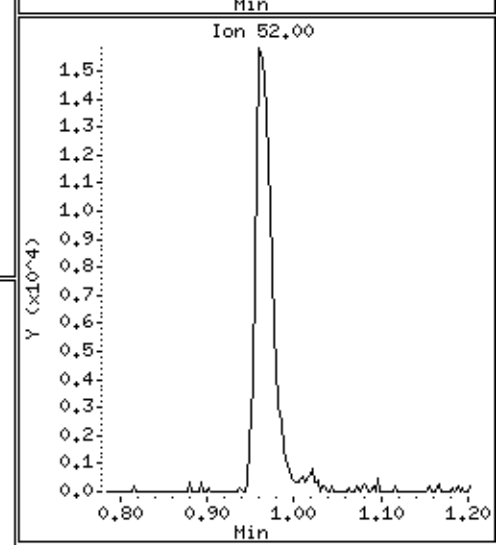
2 Chloromethane

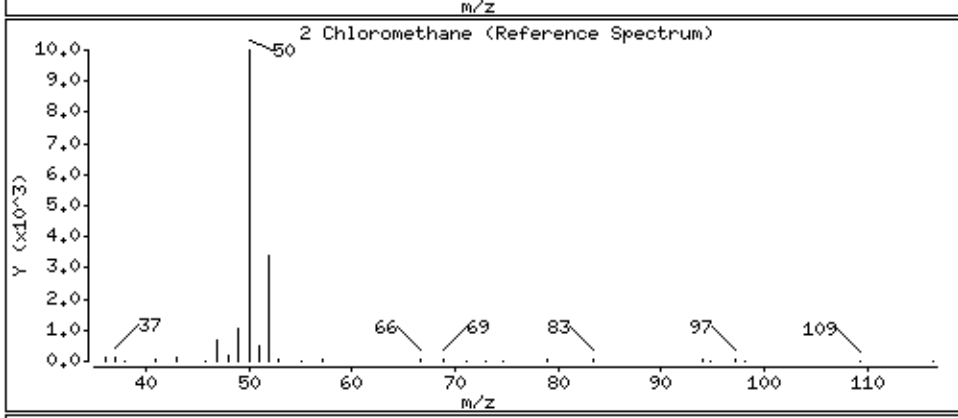
Concentration: 31.2 ppb

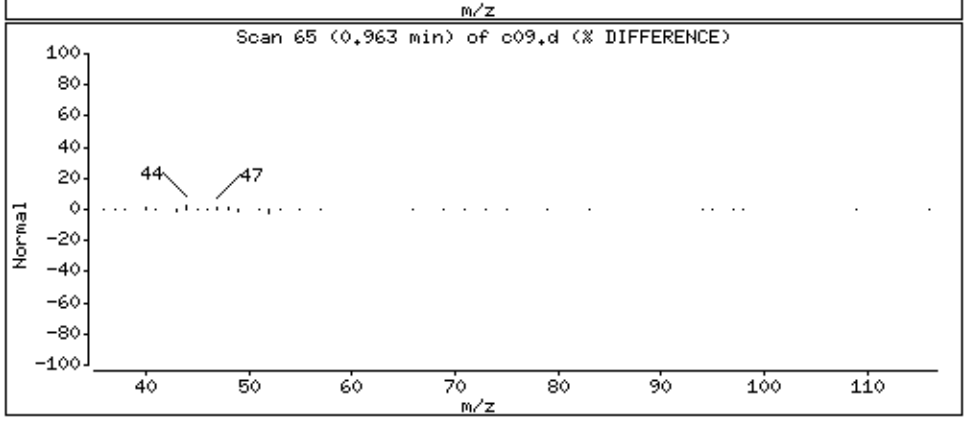












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

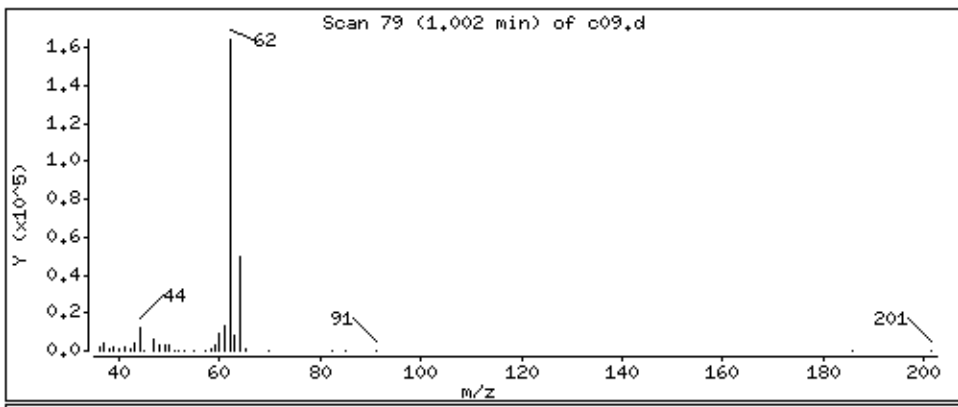
Operator: dae

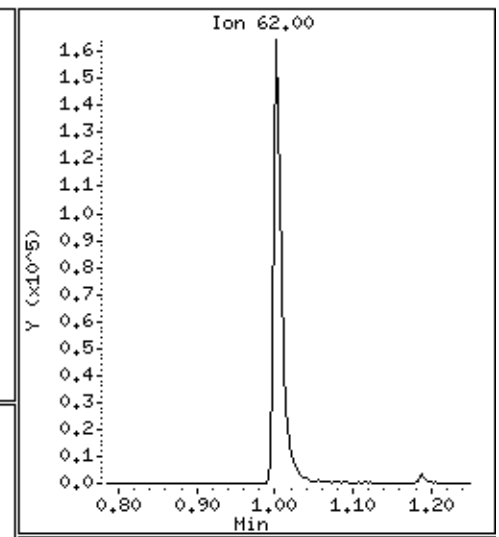
Column phase: DB-624

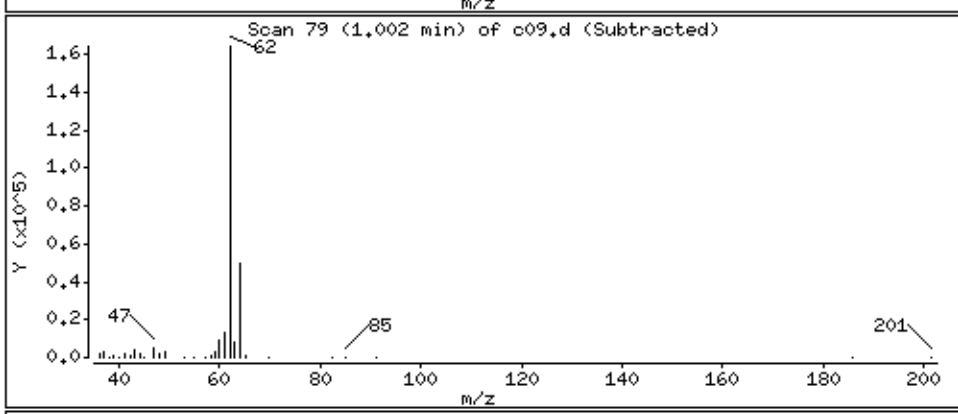
Column diameter: 0.18

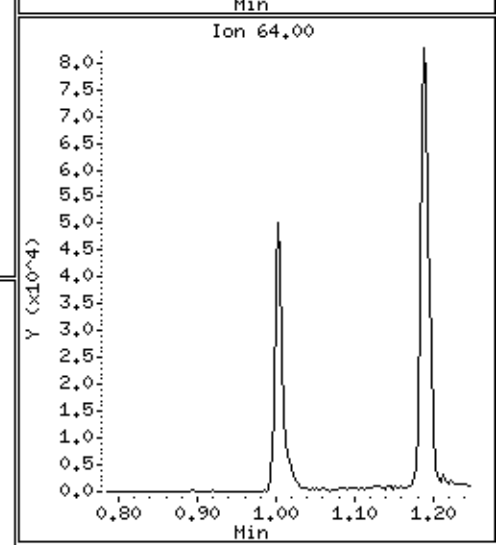
3 Vinyl Chloride

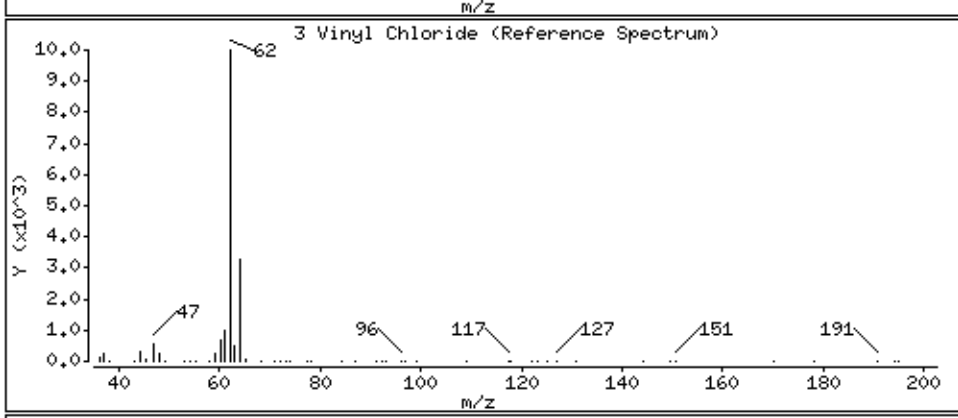
Concentration: 44.8 ppb

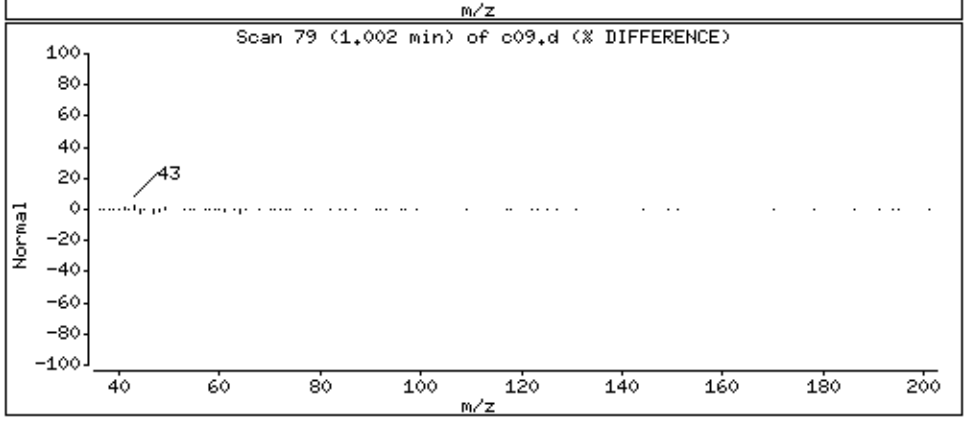












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

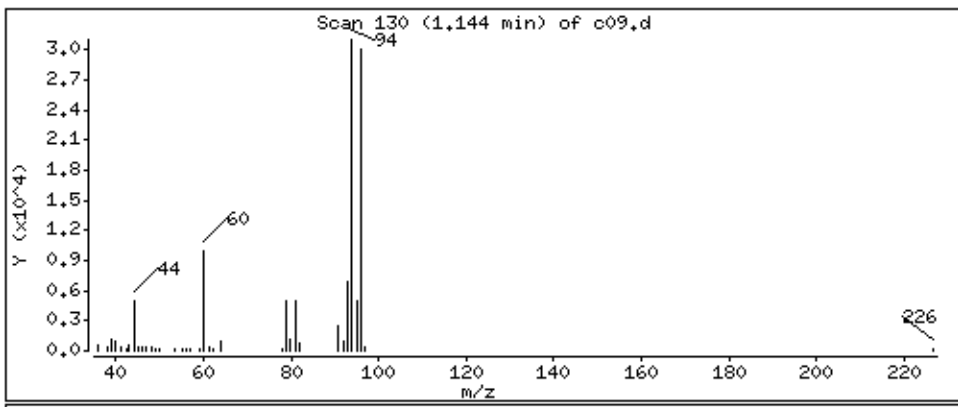
Operator: dae

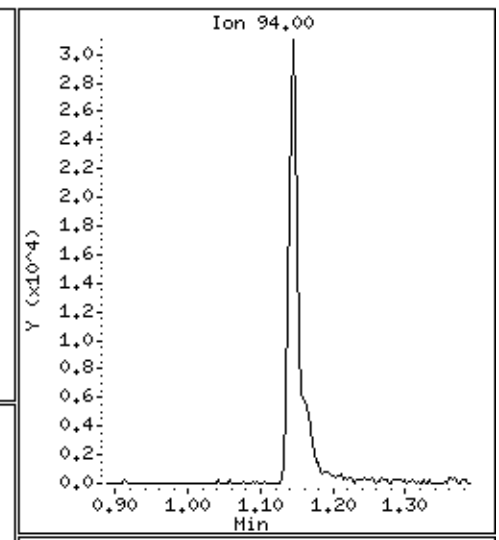
Column phase: DB-624

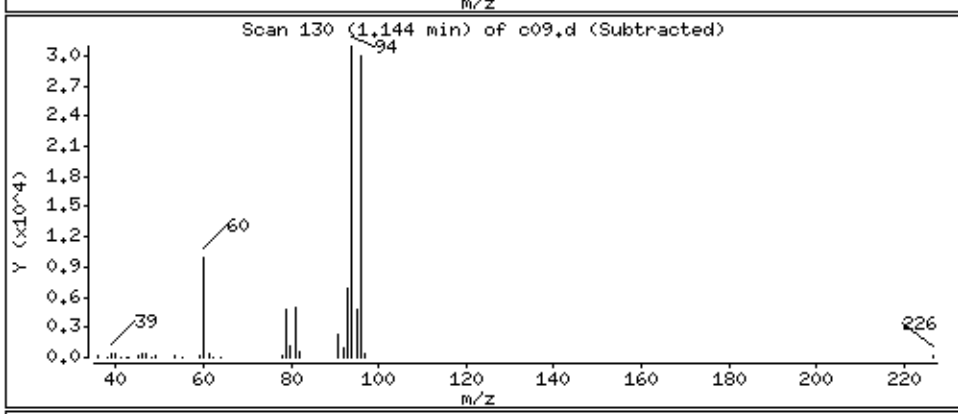
Column diameter: 0.18

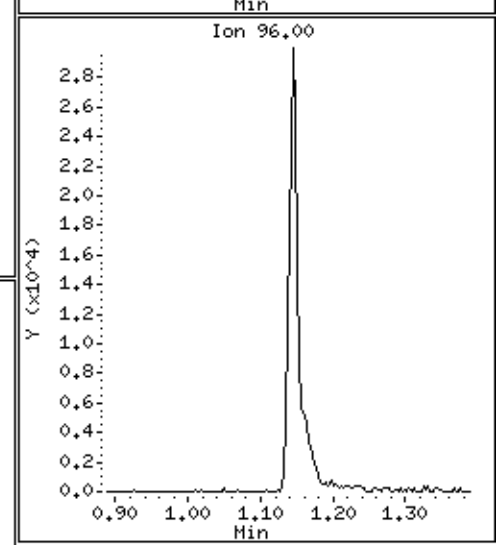
4 Bromomethane

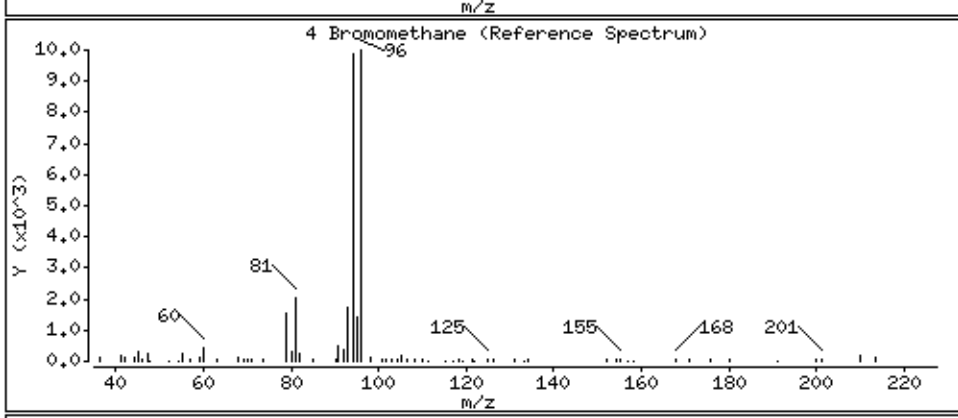
Concentration: 23.7 ppb

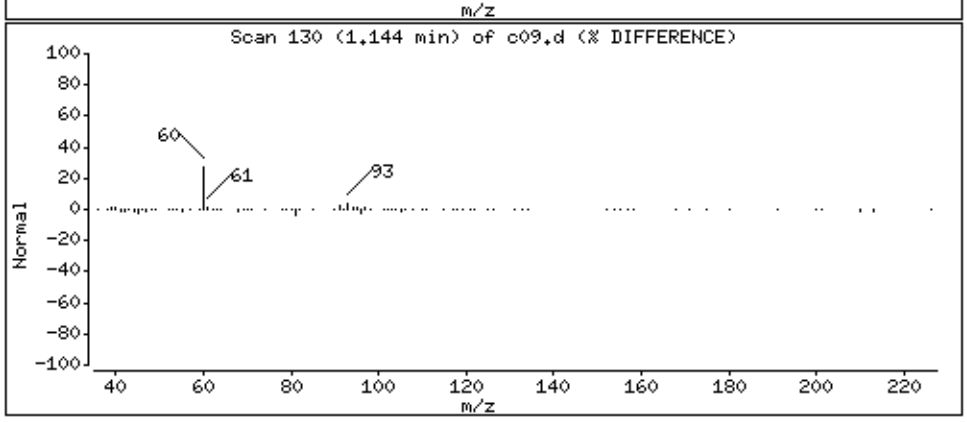












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

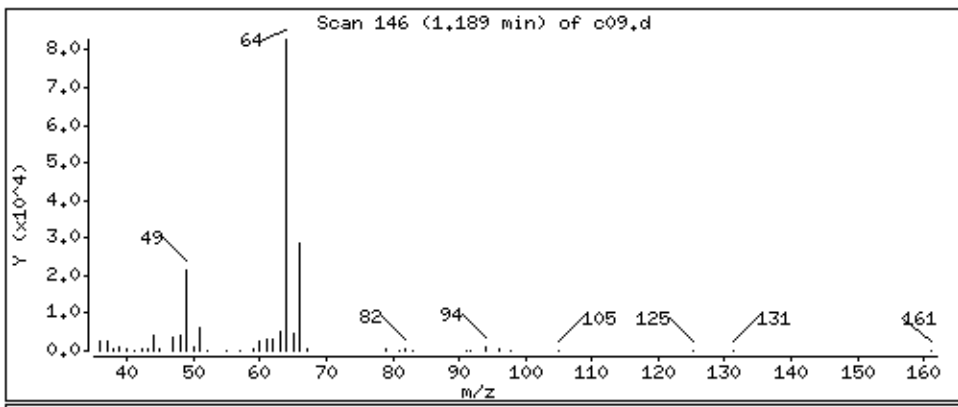
Operator: dae

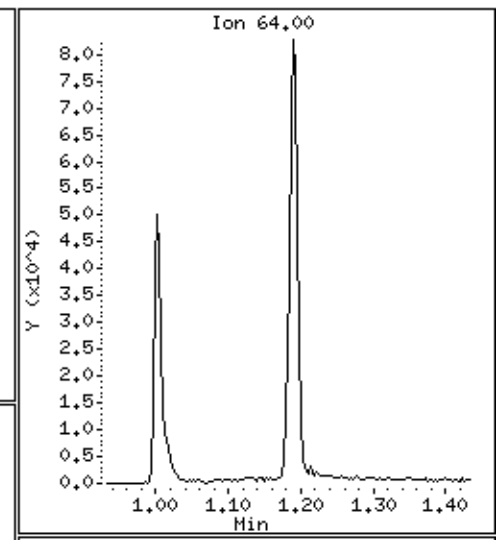
Column phase: DB-624

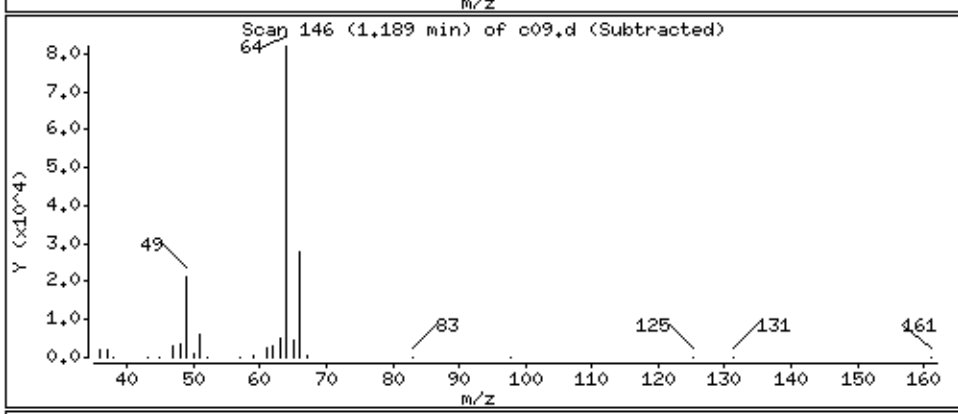
Column diameter: 0.18

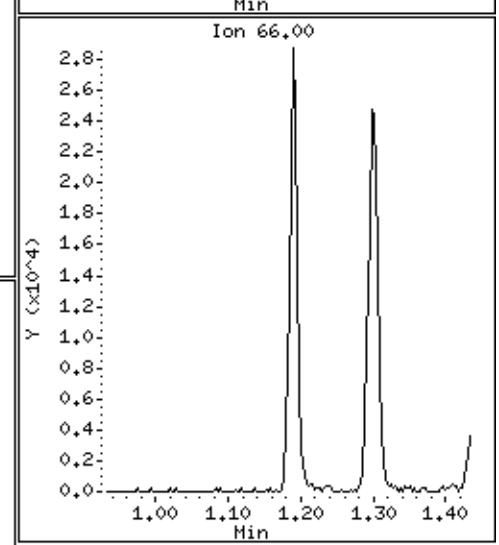
5 Chloroethane

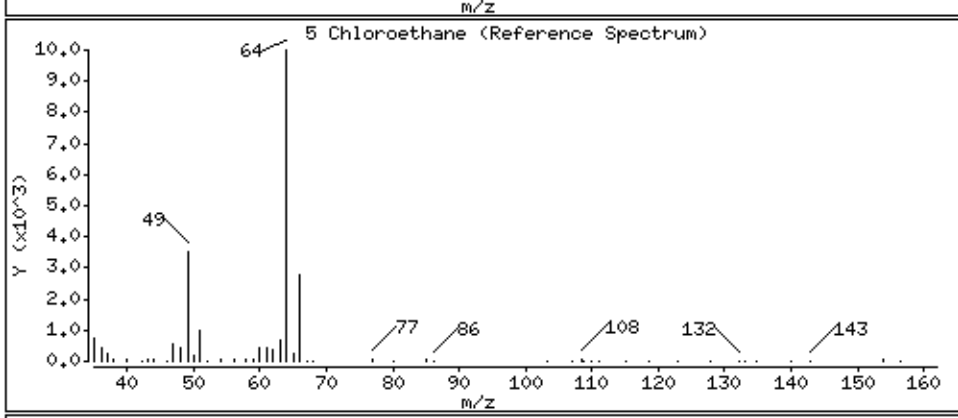
Concentration: 39.3 ppb

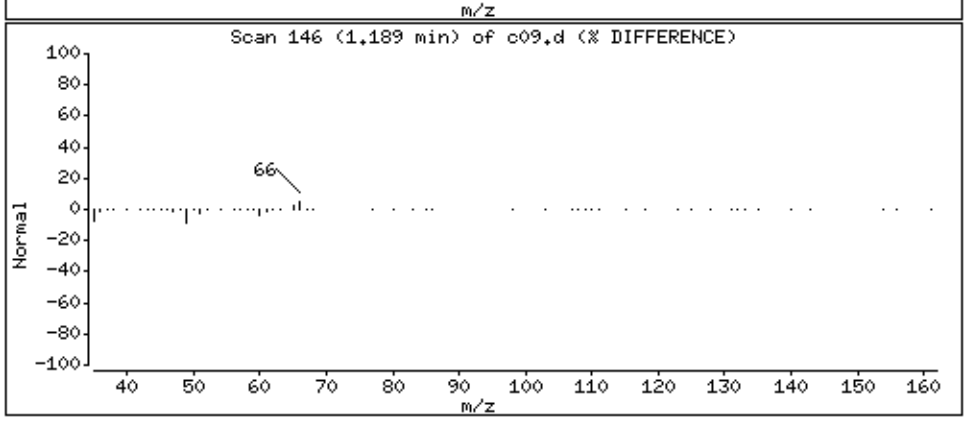












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

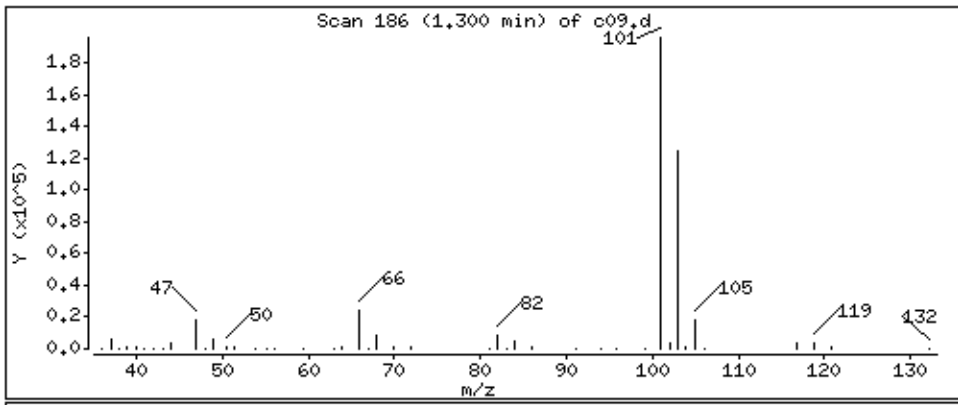
Operator: dae

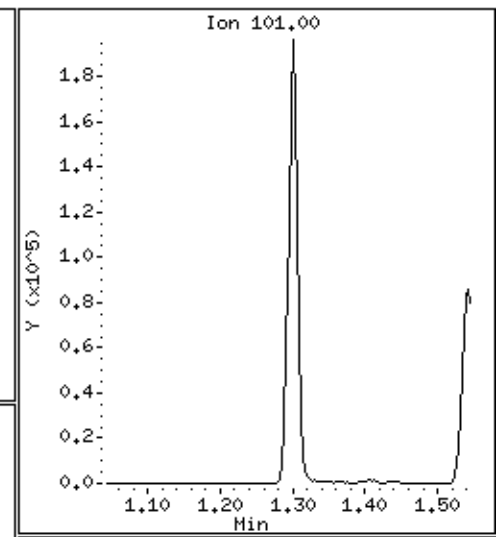
Column phase: DB-624

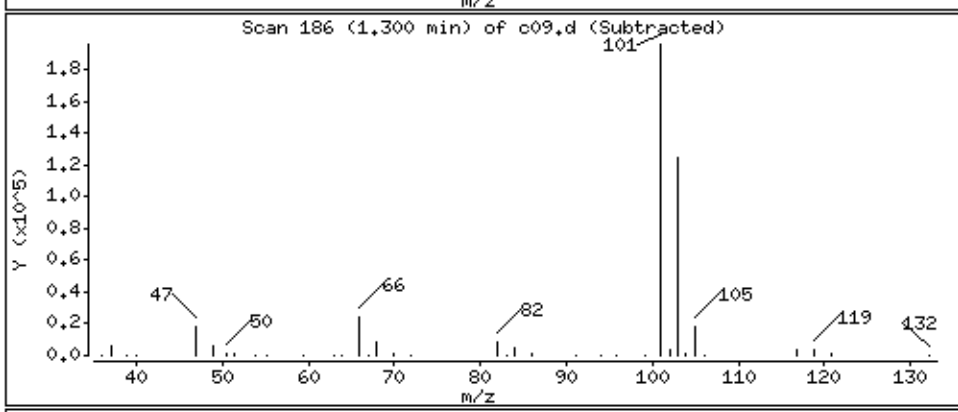
Column diameter: 0.18

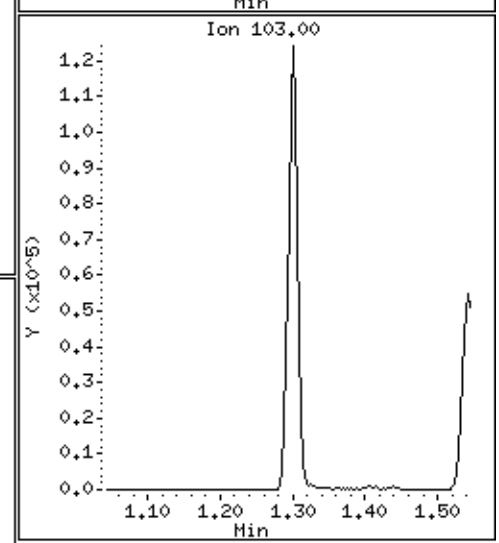
6 Trichlorofluoromethane

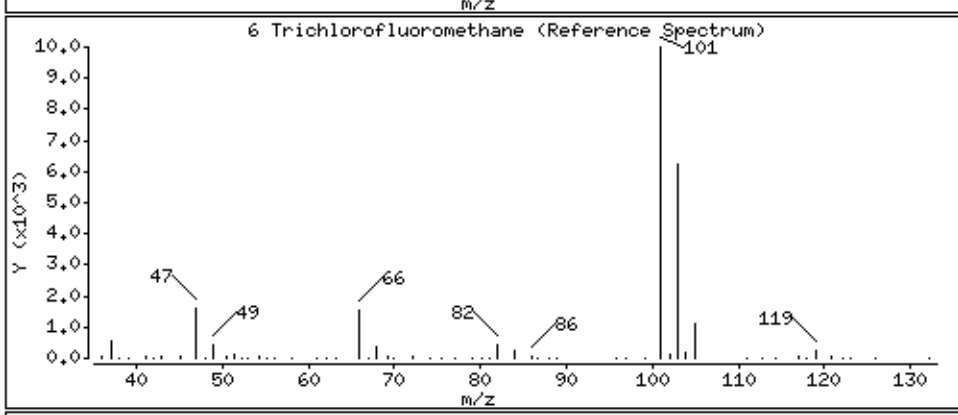
Concentration: 50.0 ppb

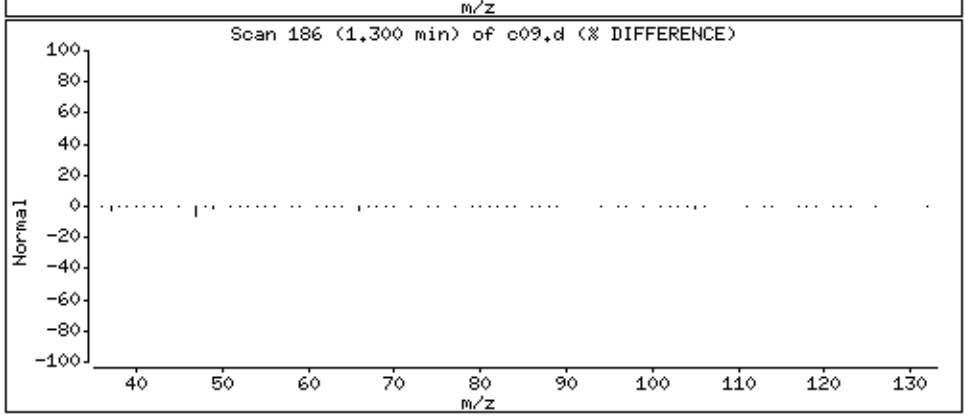












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

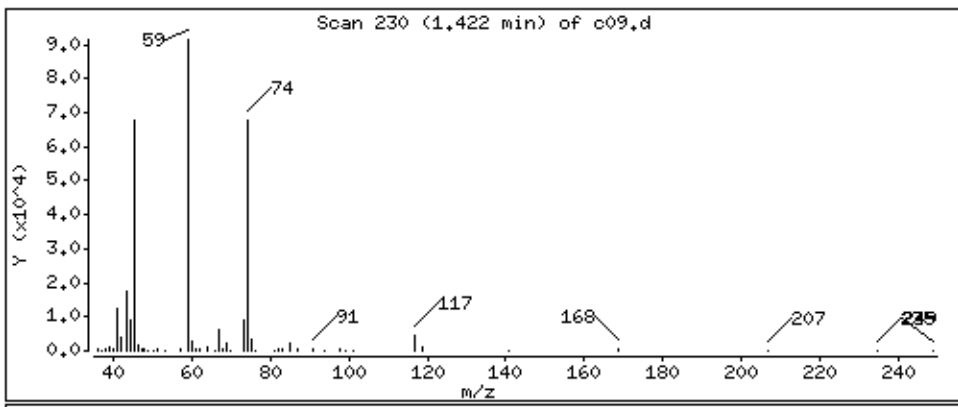
Operator: dae

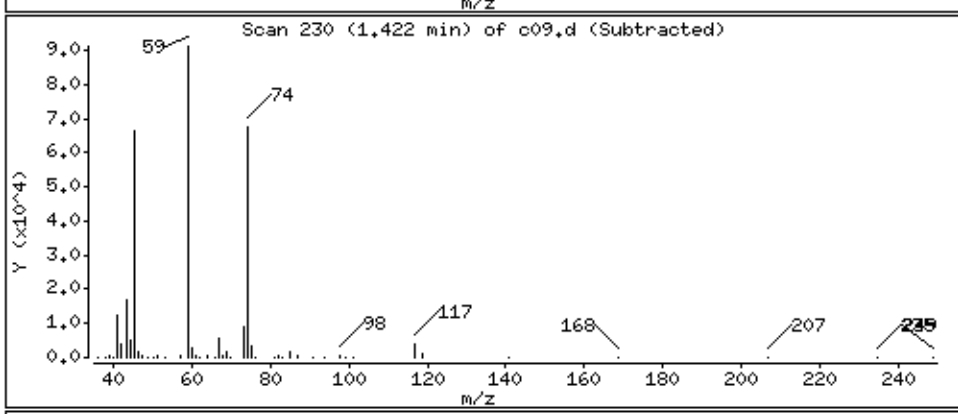
Column phase: DB-624

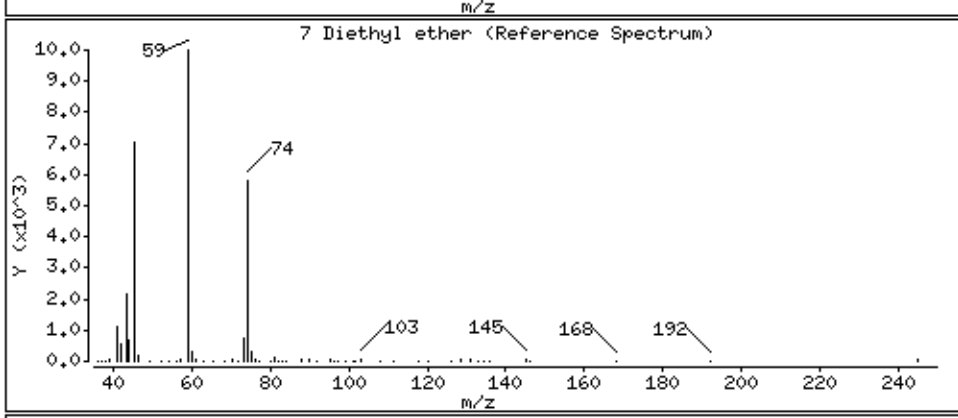
Column diameter: 0.18

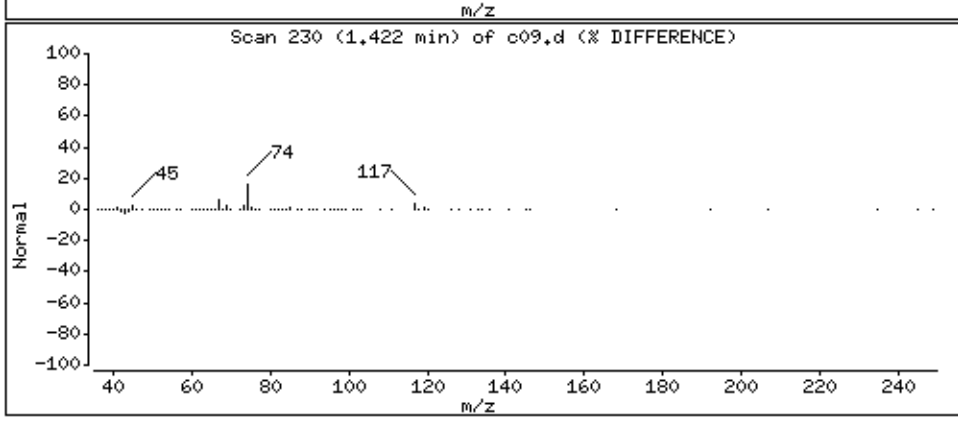
7 Diethyl ether

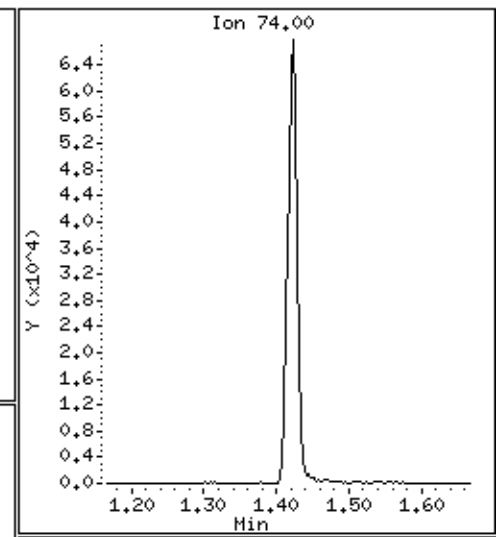
Concentration: 37.2 ppb

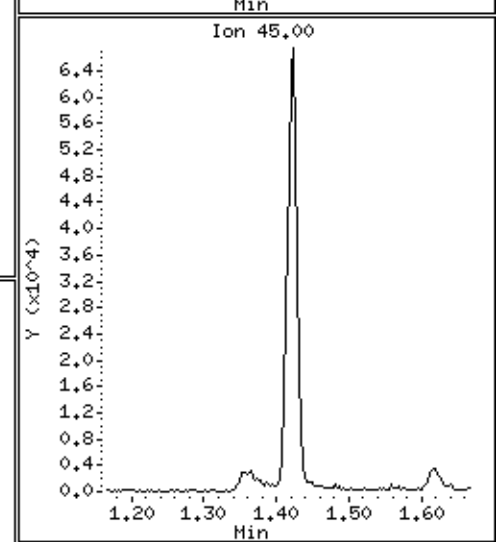


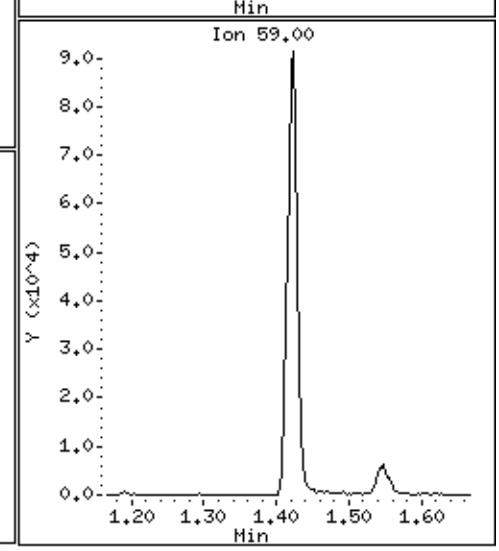












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

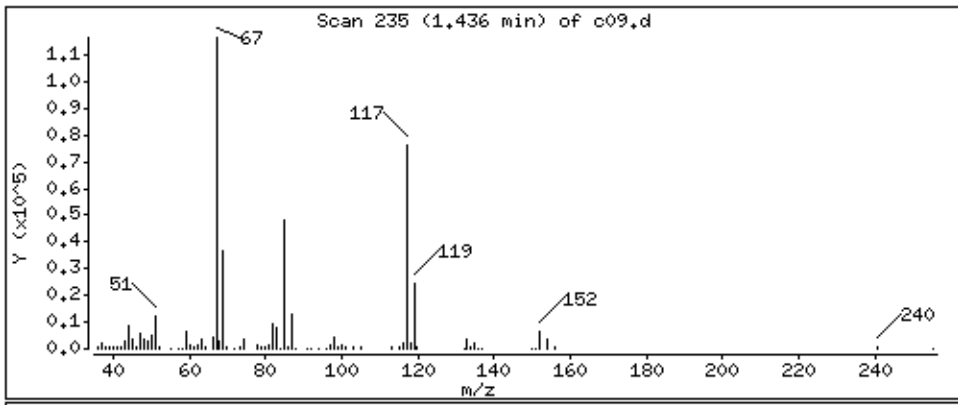
Operator: dae

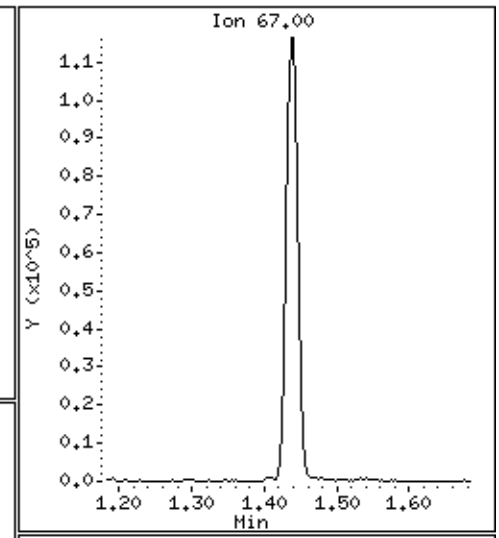
Column phase: DB-624

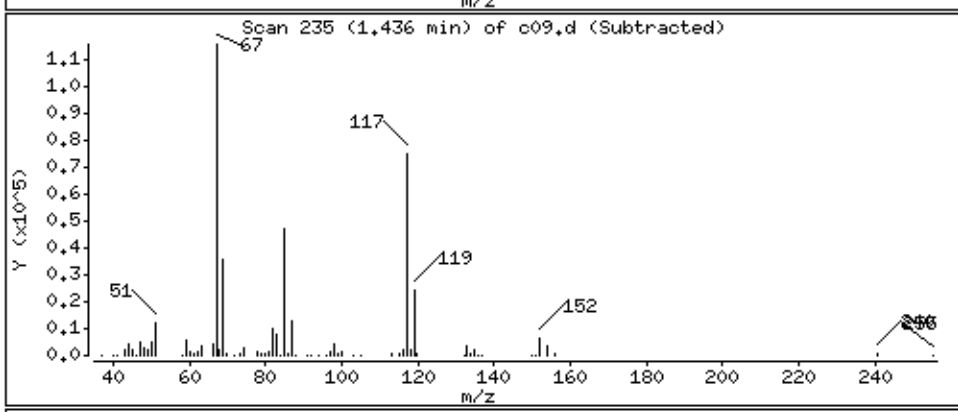
Column diameter: 0.18

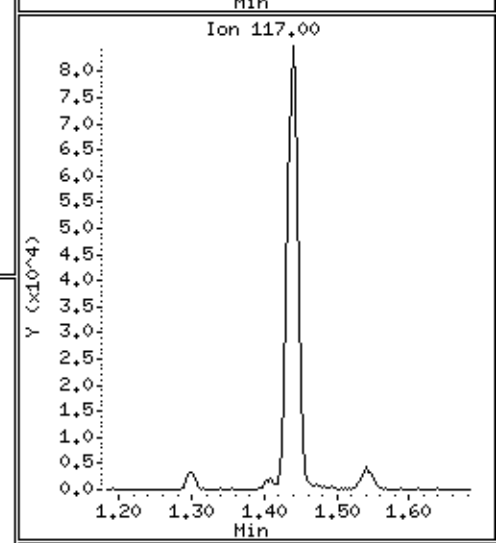
8 1,2-dichlorotrifluoroethane

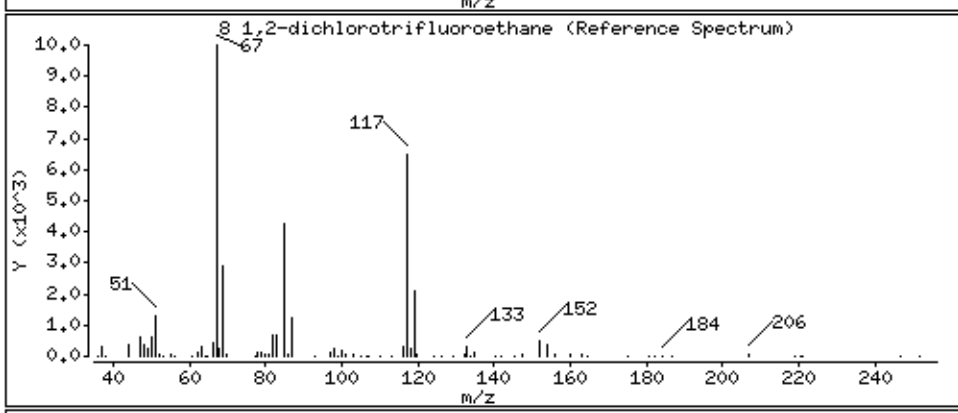
Concentration: 38.9 ppb

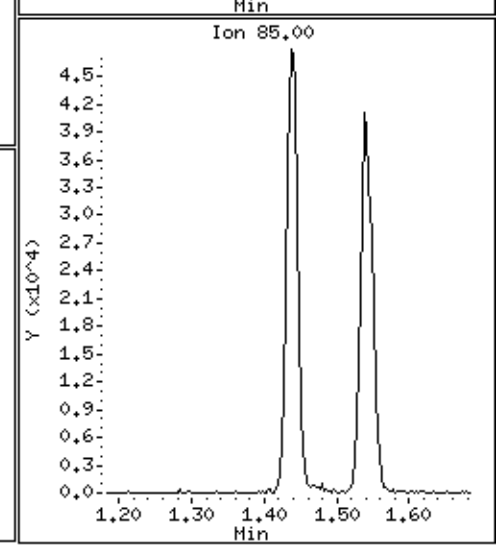


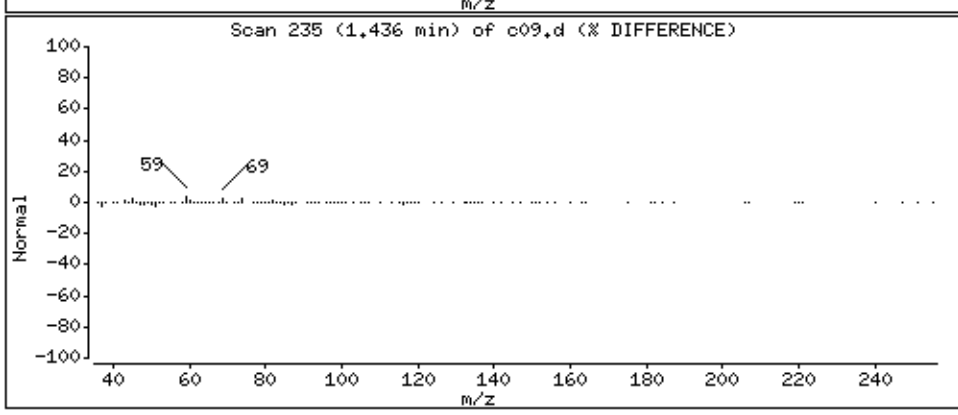












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

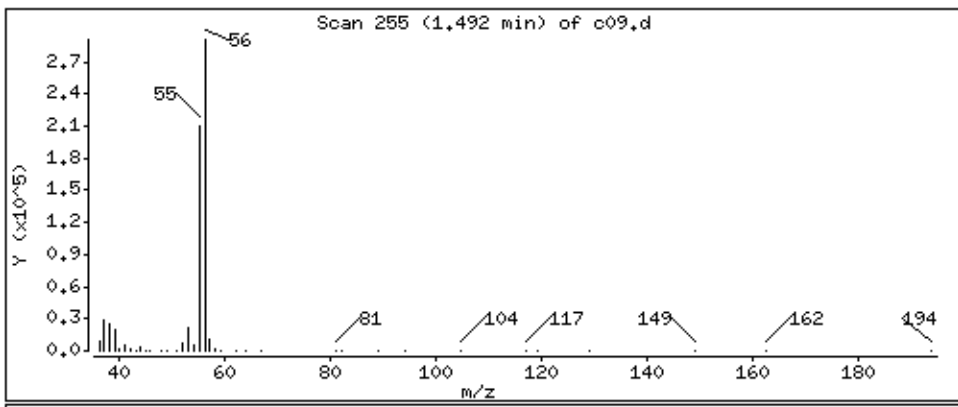
Operator: dae

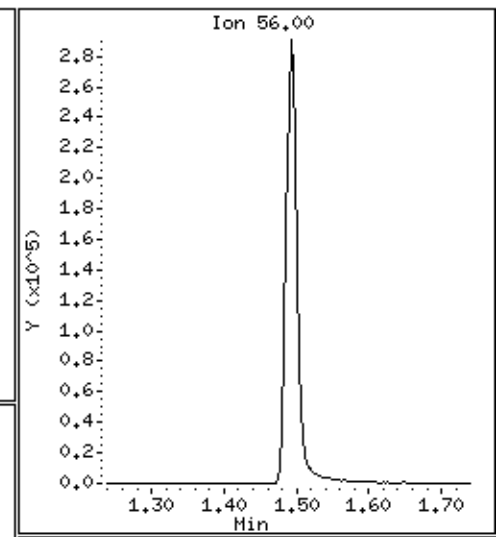
Column phase: DB-624

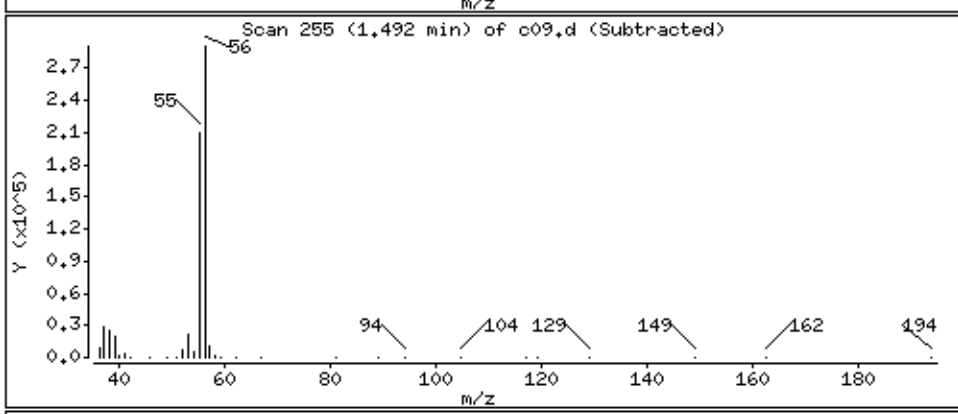
Column diameter: 0.18

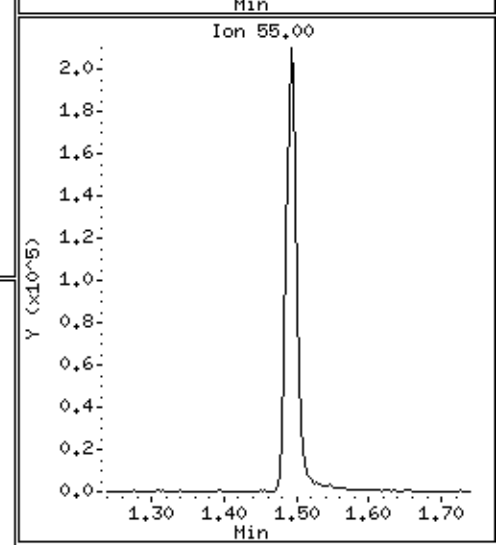
9 Acrolein

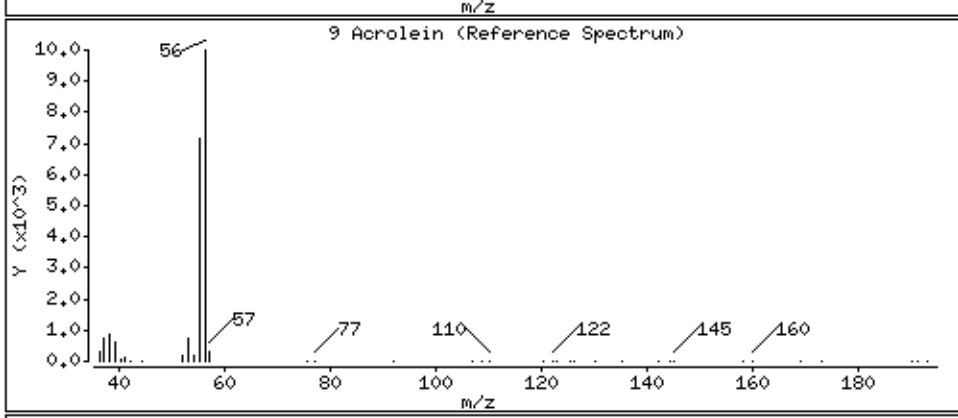
Concentration: 837 ppb

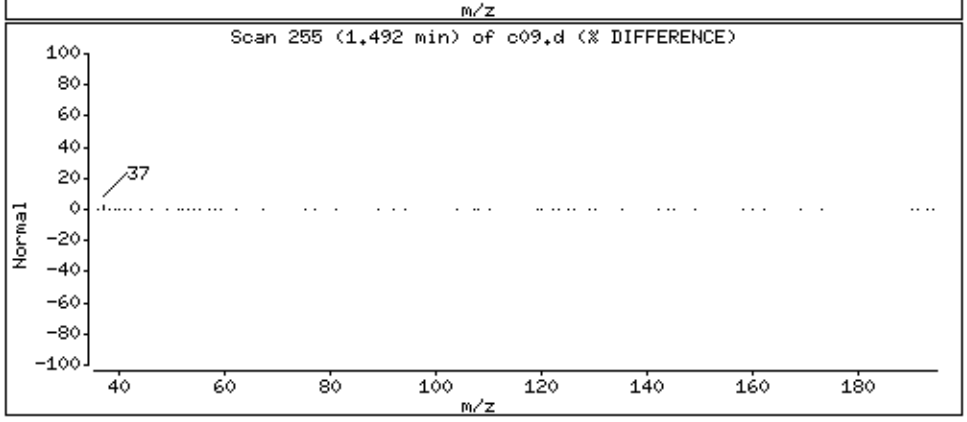












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

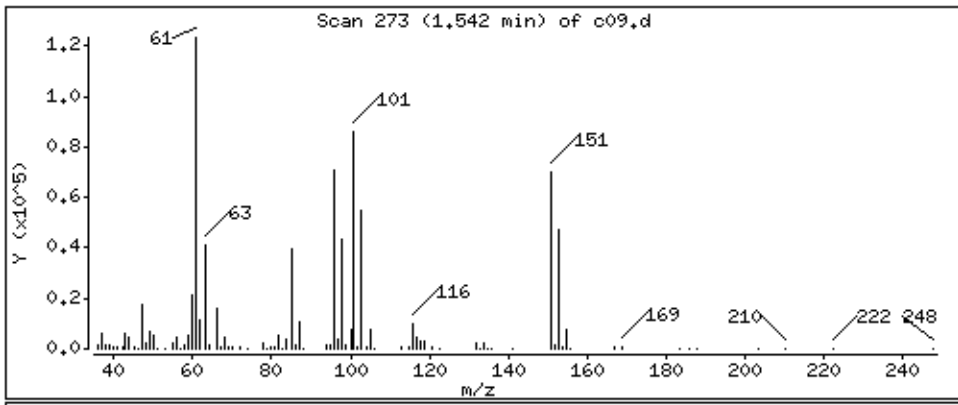
Operator: dae

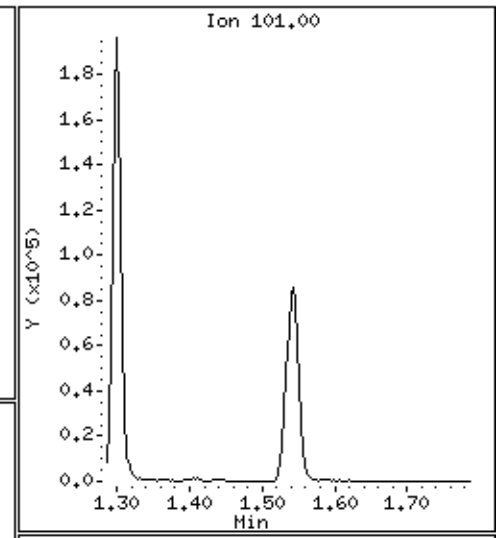
Column phase: DB-624

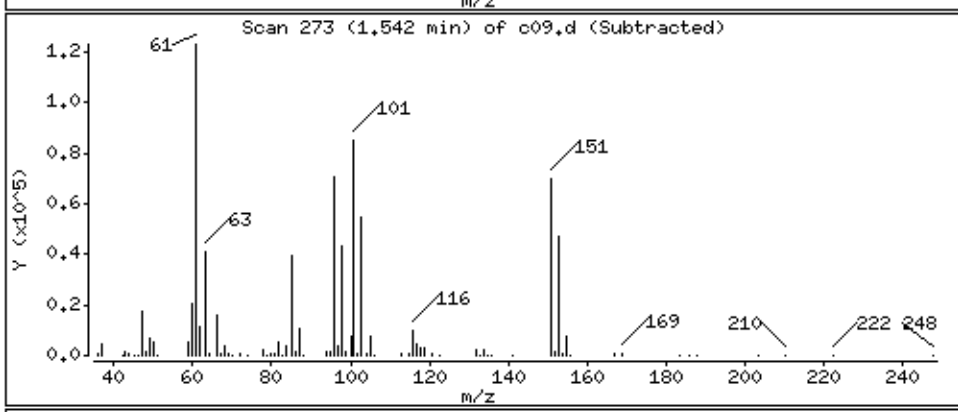
Column diameter: 0.18

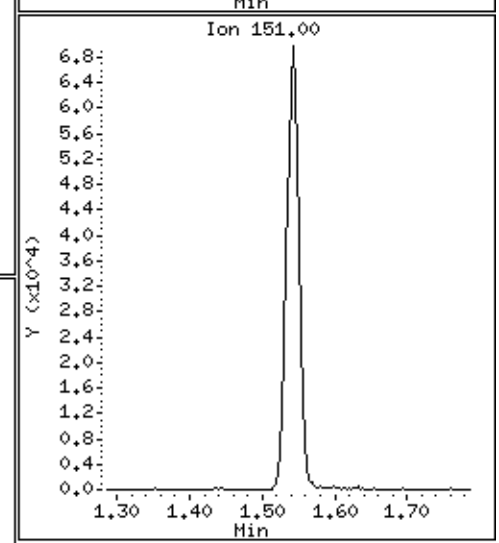
10 1,1,2trichlorotrifluoroethane

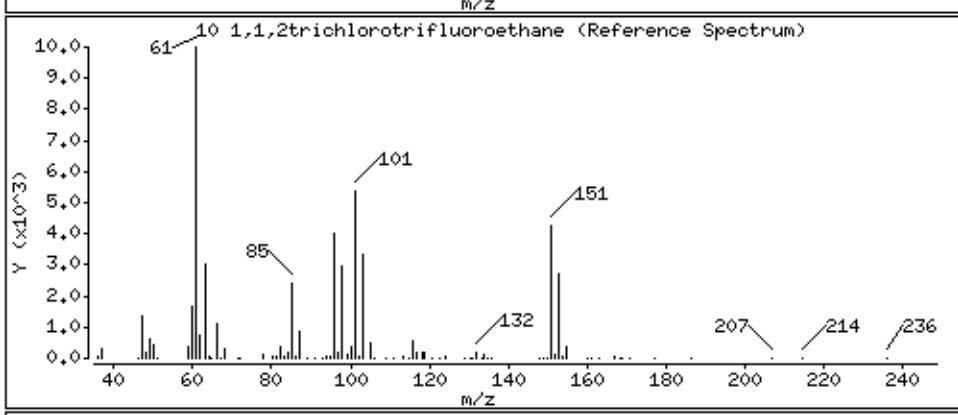
Concentration: 39.6 ppb

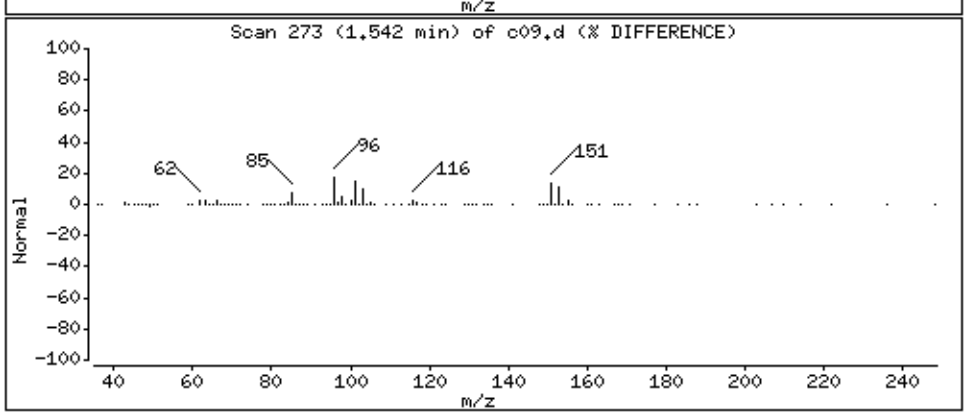












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

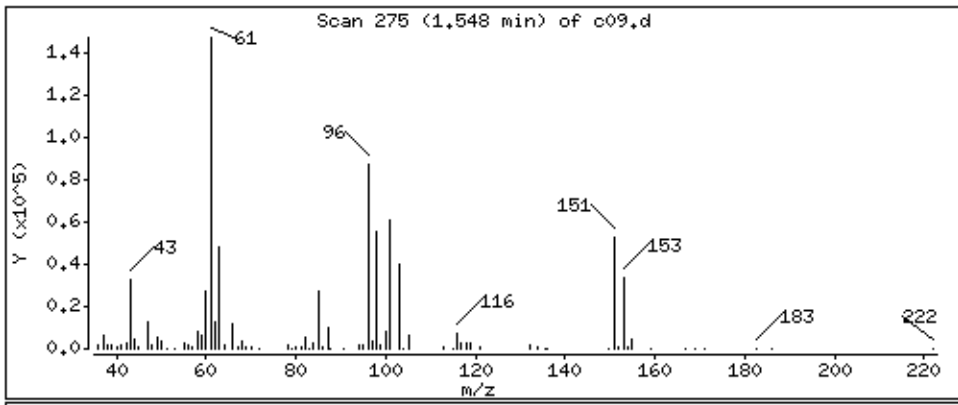
Operator: dae

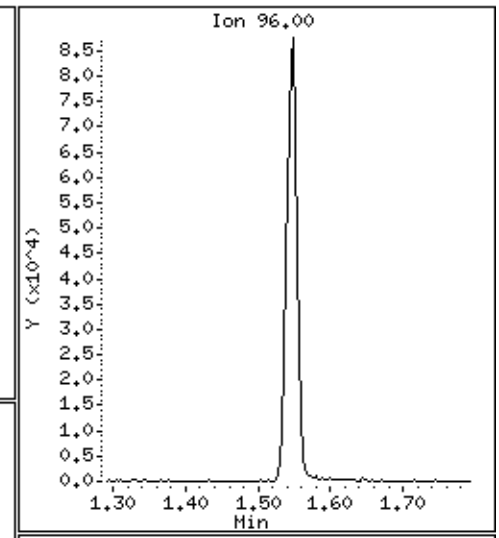
Column phase: DB-624

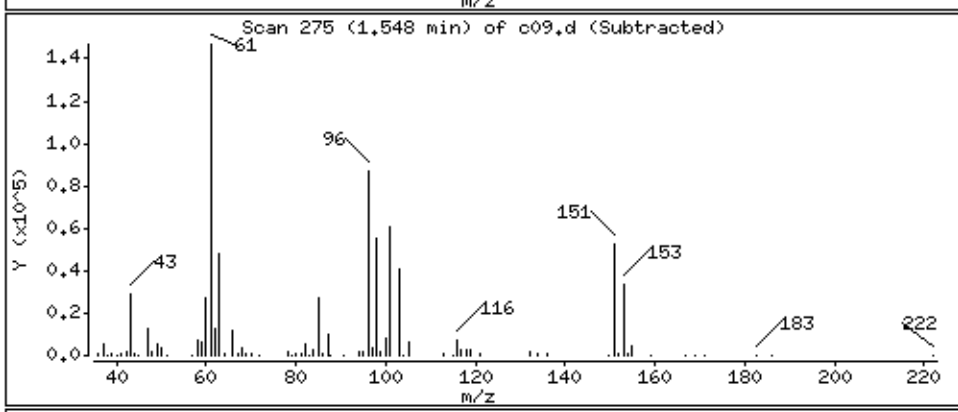
Column diameter: 0.18

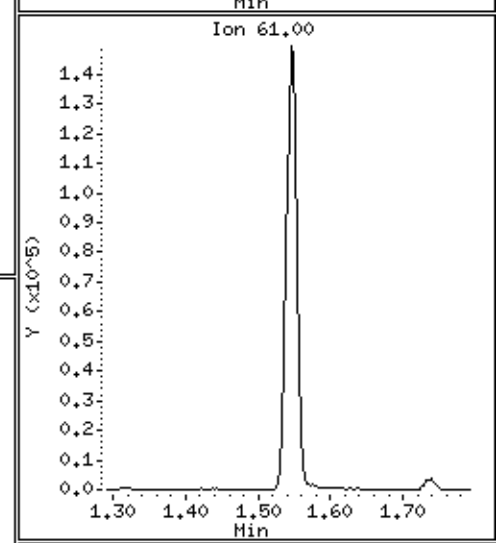
11 1,1-Dichloroethene

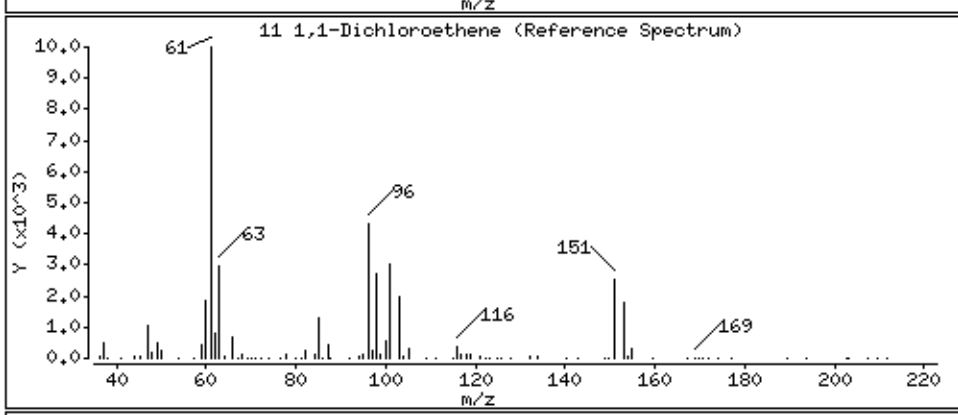
Concentration: 40.5 ppb

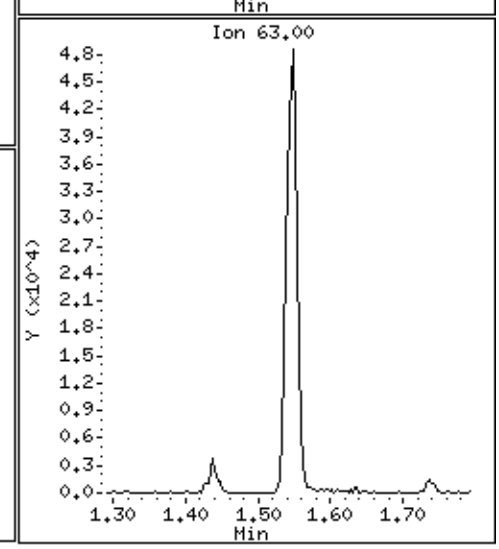


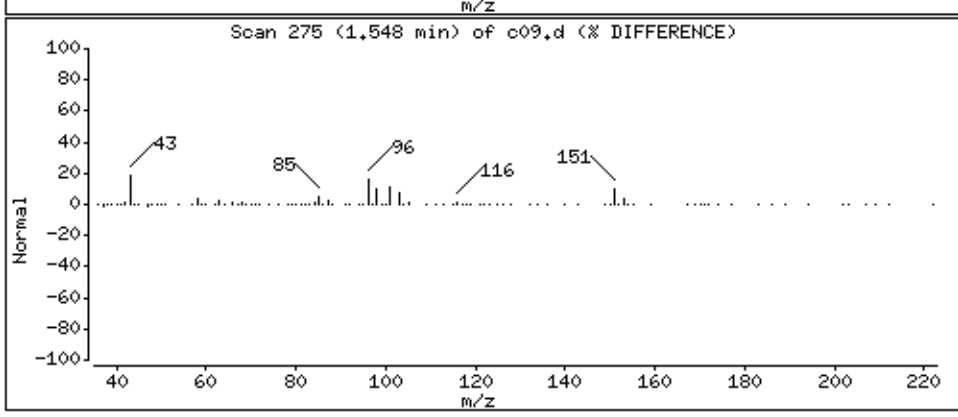












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

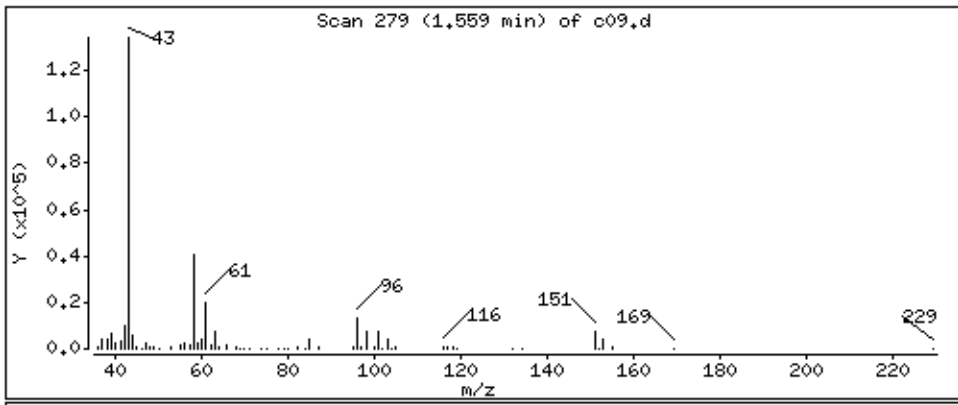
Operator: dae

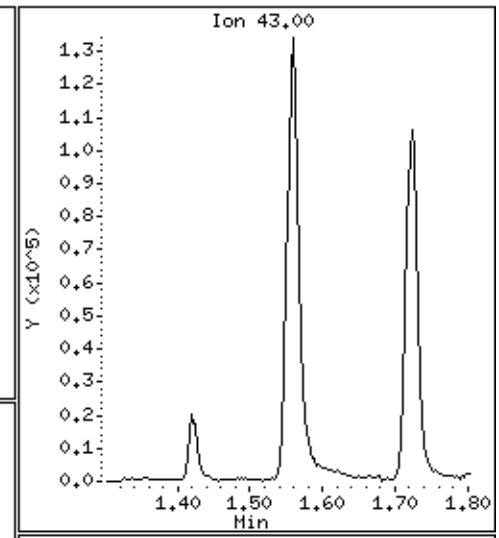
Column phase: DB-624

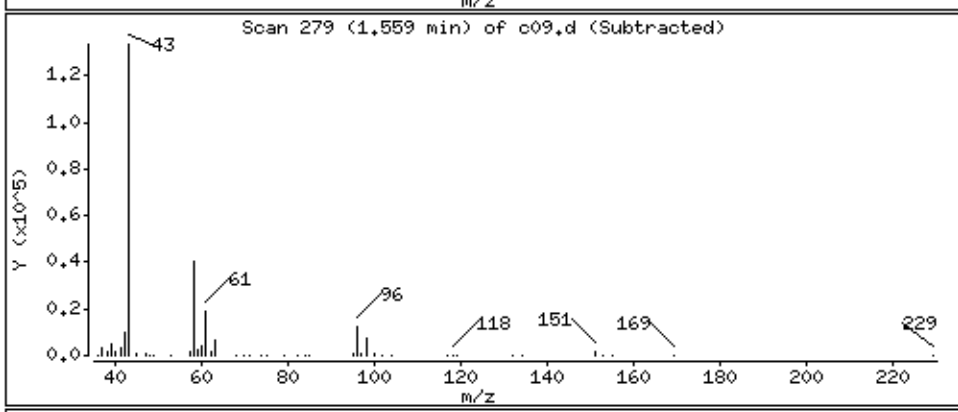
Column diameter: 0.18

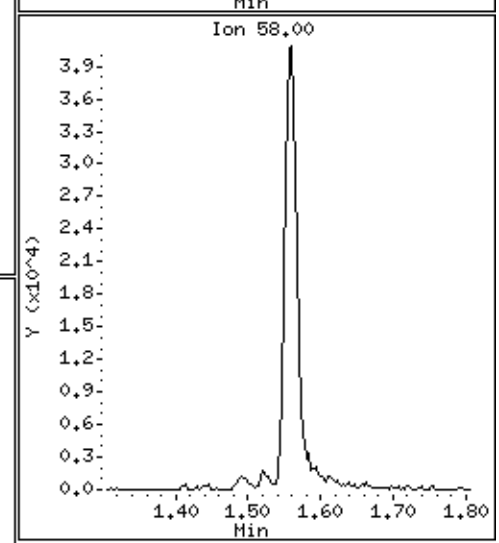
12 Acetone

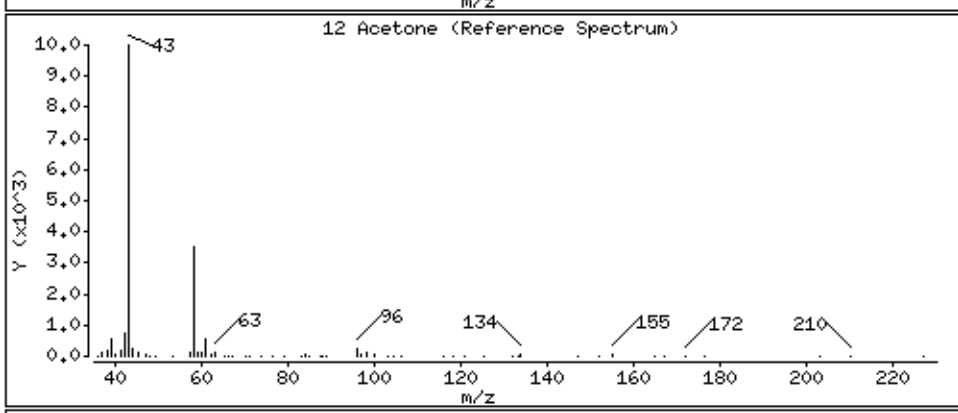
Concentration: 203 ppb

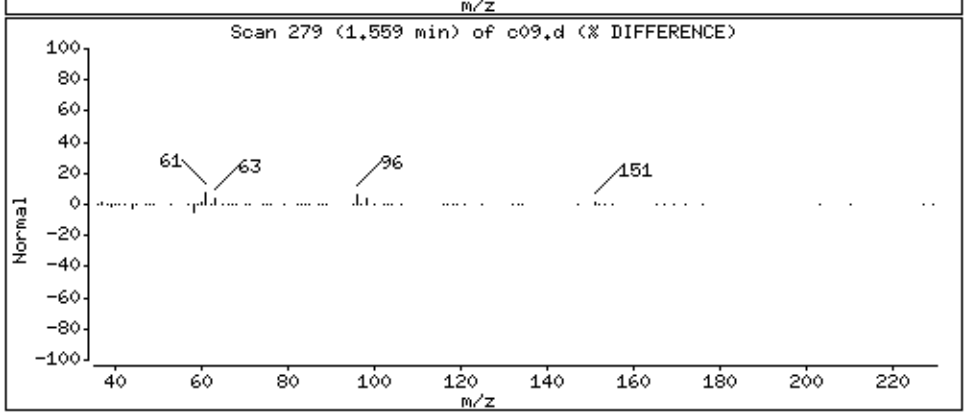












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

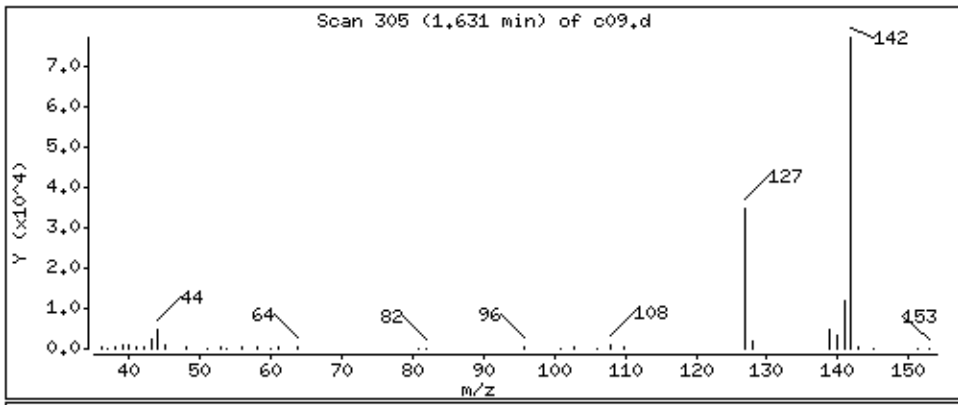
Operator: dae

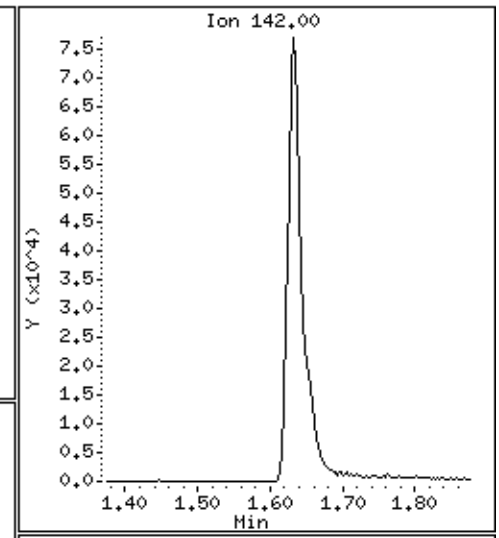
Column phase: DB-624

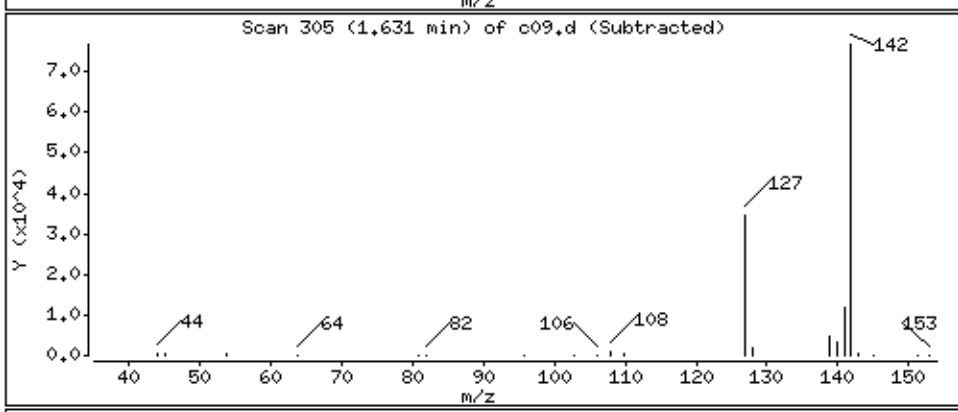
Column diameter: 0.18

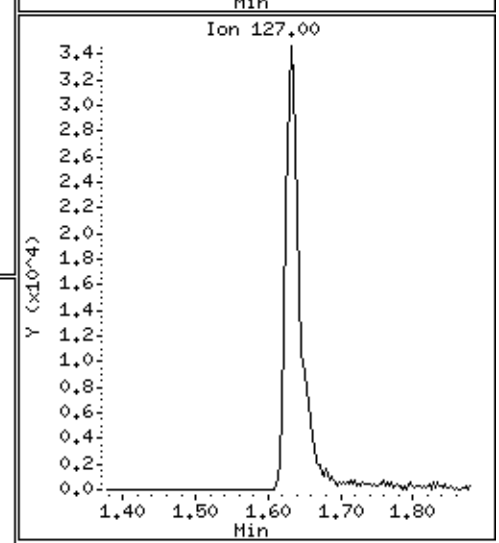
13 Iodomethane

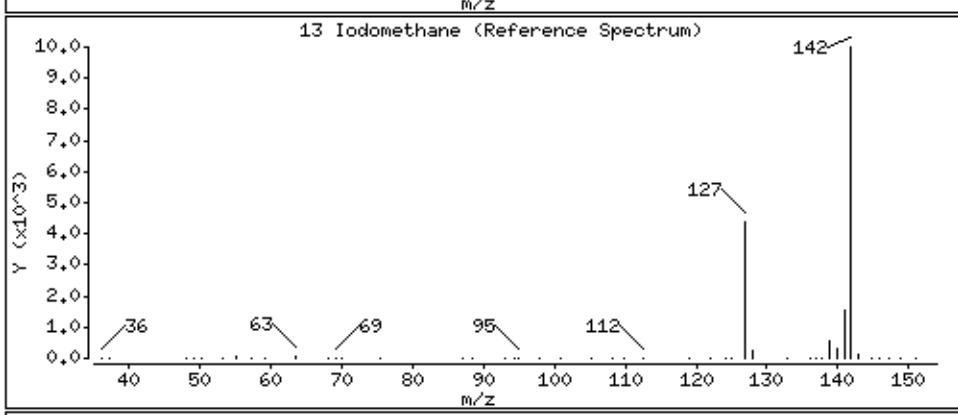
Concentration: 38.6 ppb

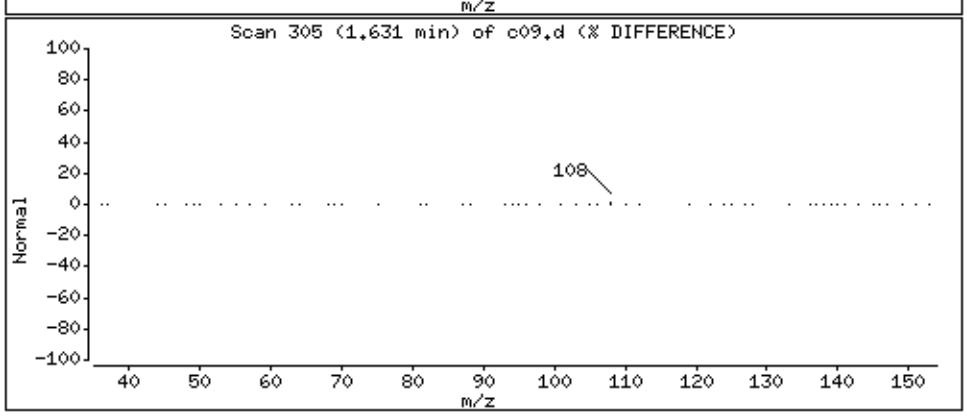












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

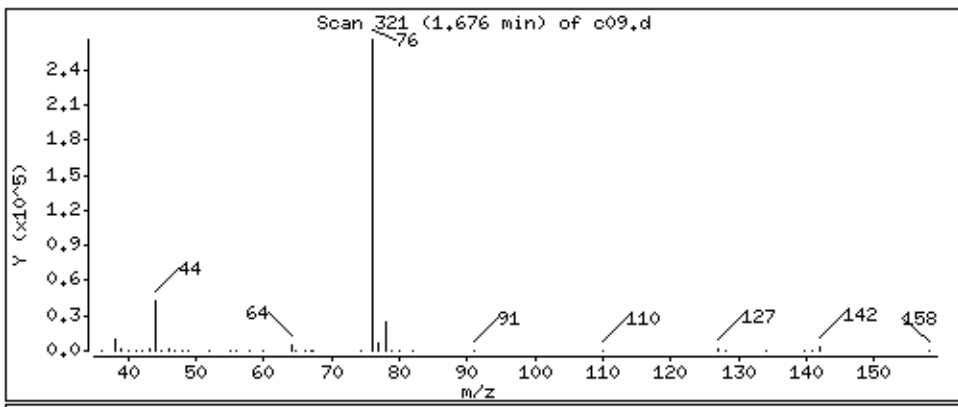
Operator: dae

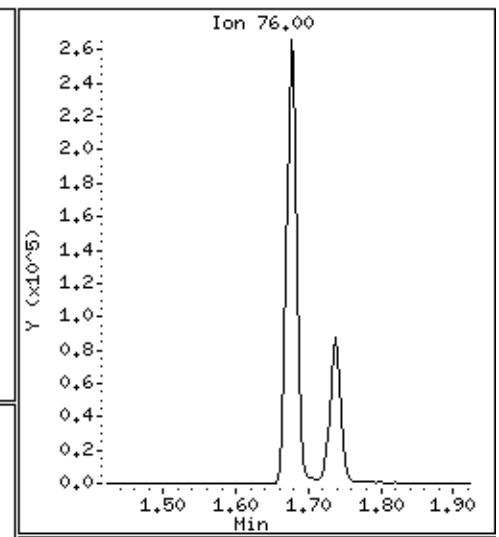
Column phase: DB-624

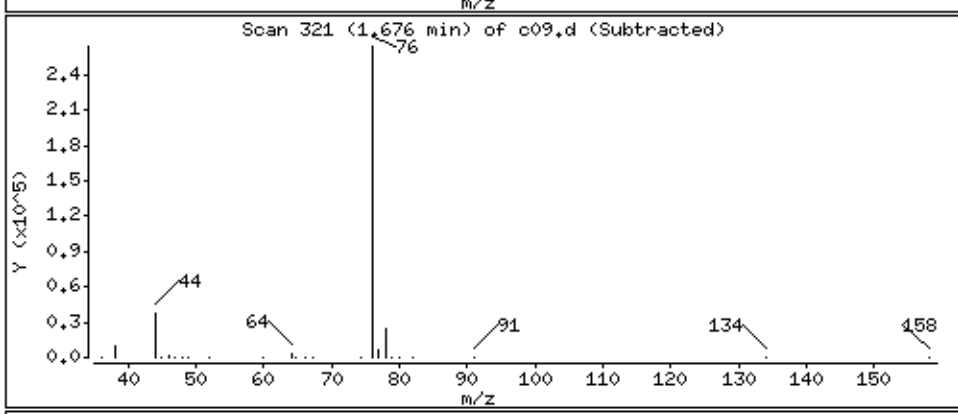
Column diameter: 0.18

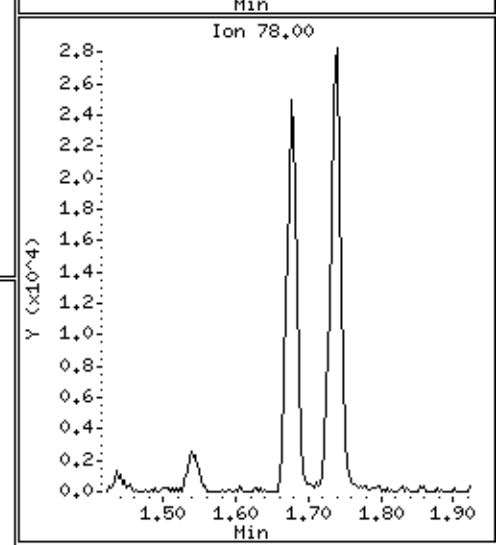
14 Carbon Disulfide

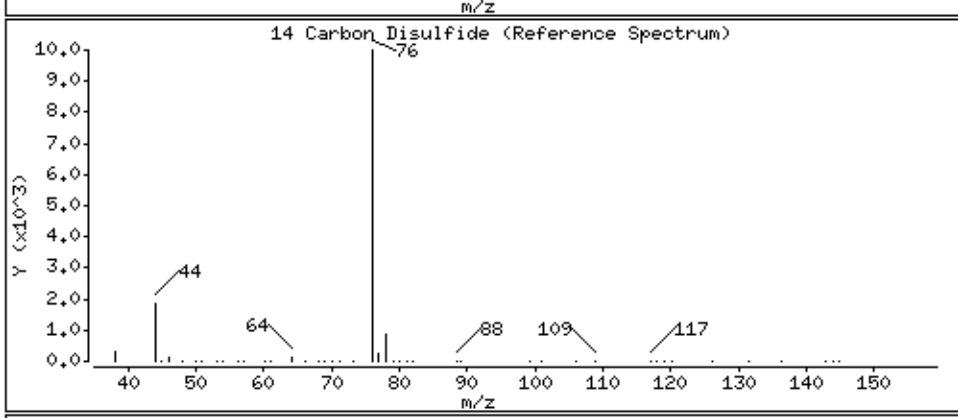
Concentration: 38.5 ppb

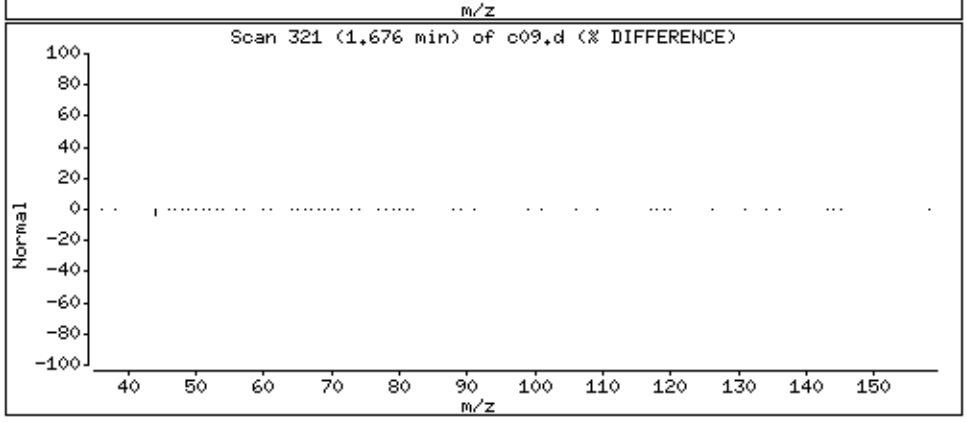












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

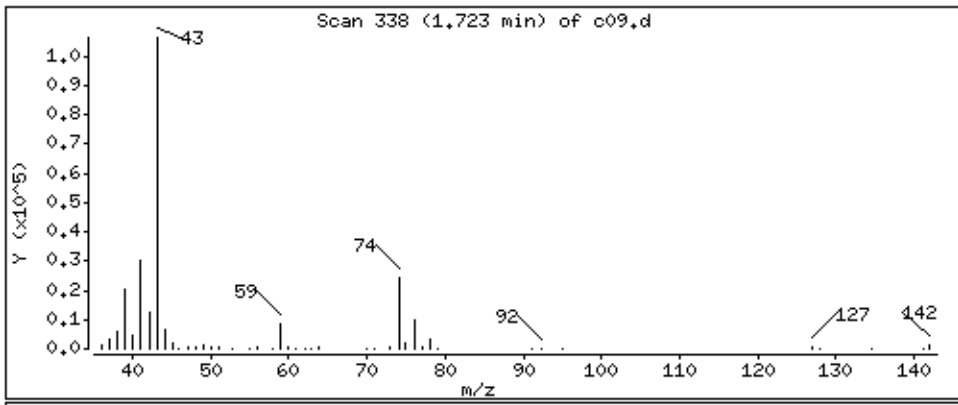
Operator: dae

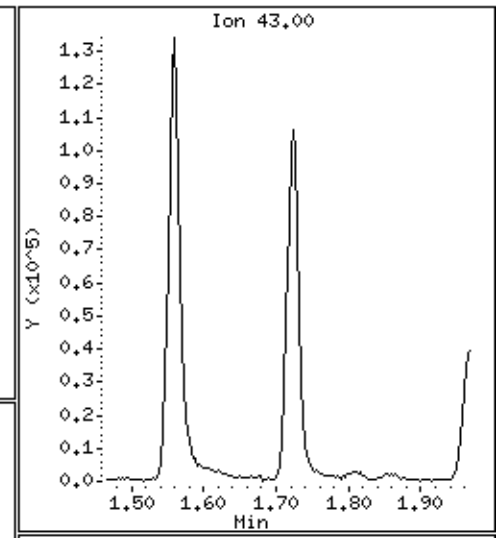
Column phase: DB-624

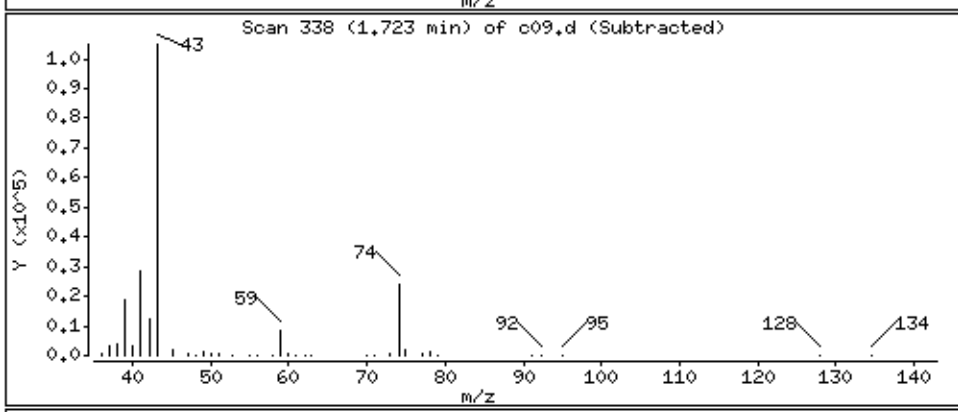
Column diameter: 0.18

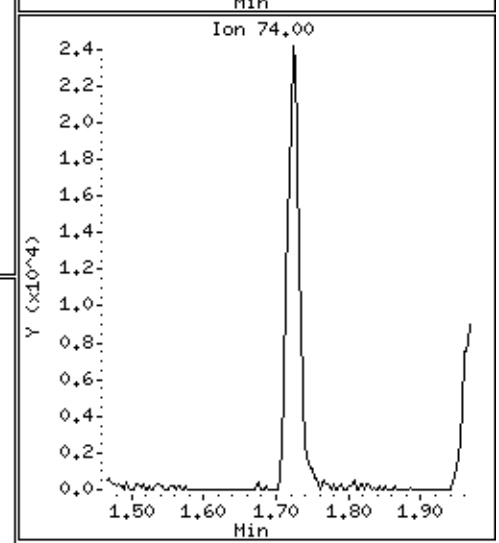
15 Methyl Acetate

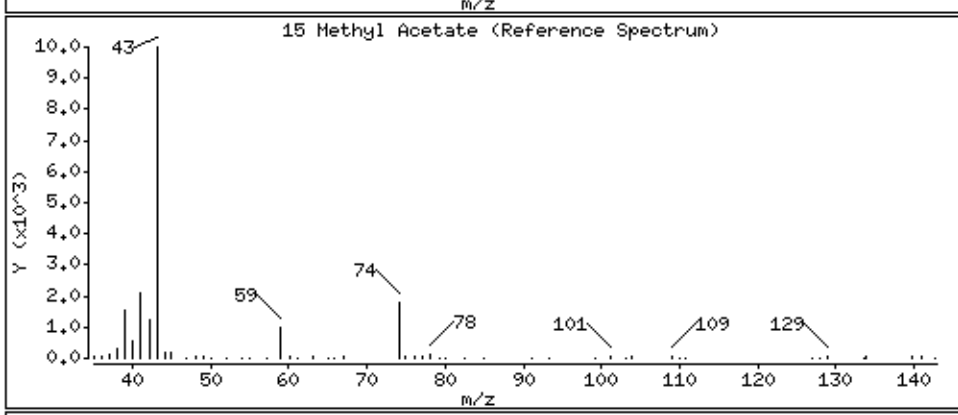
Concentration: 41.2 ppb

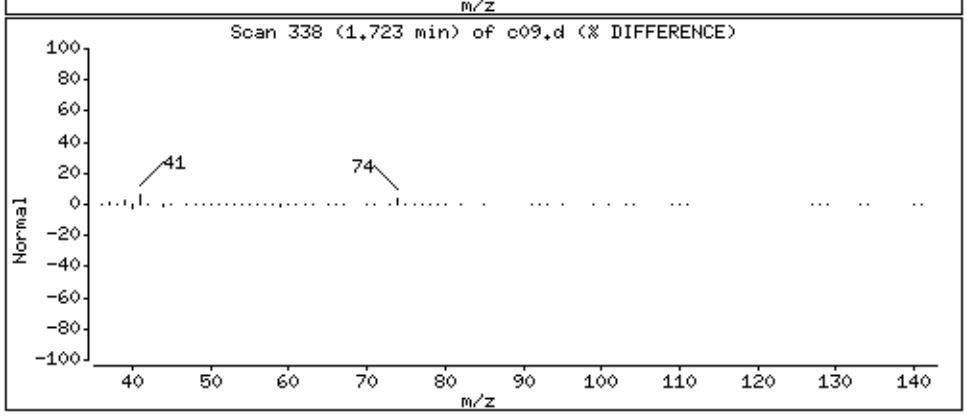












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

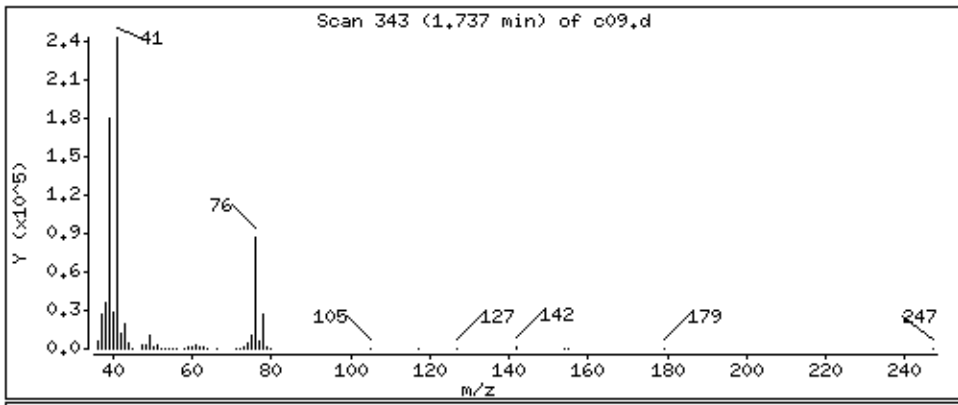
Operator: dae

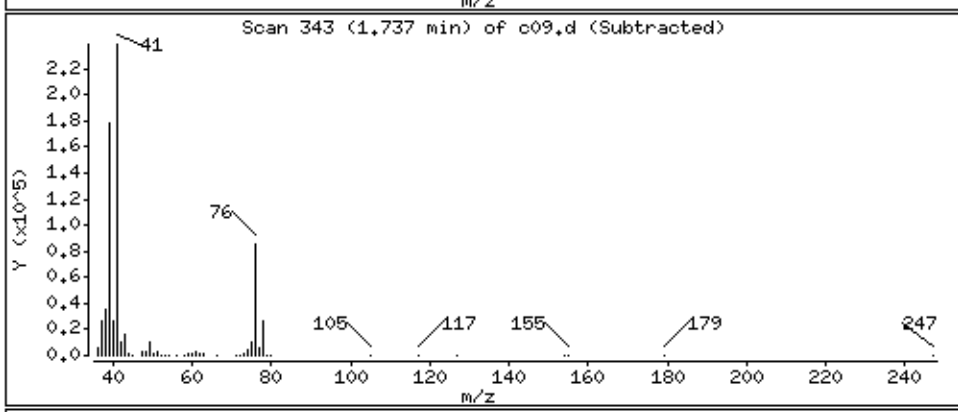
Column phase: DB-624

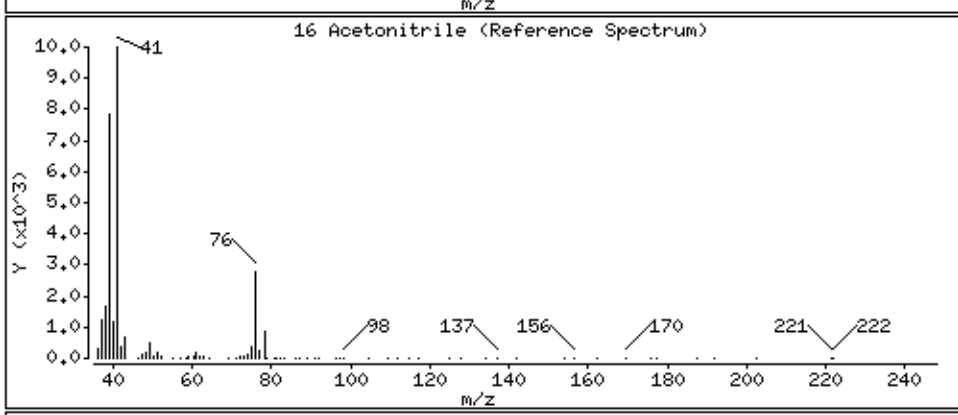
Column diameter: 0.18

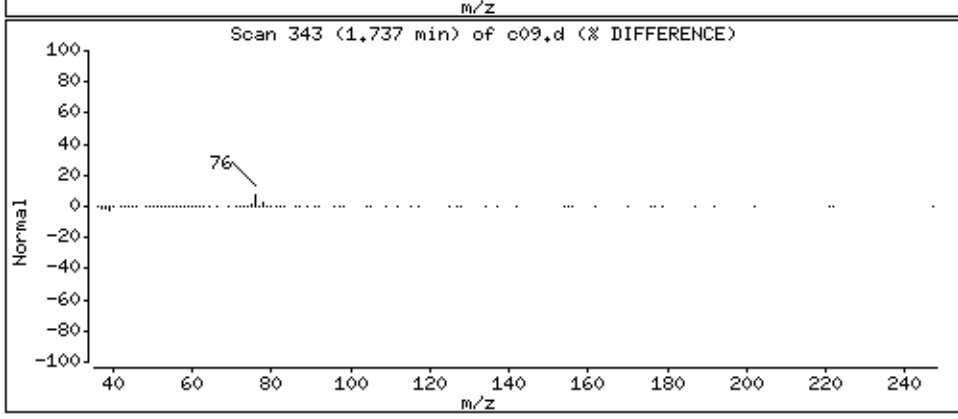
16 Acetonitrile

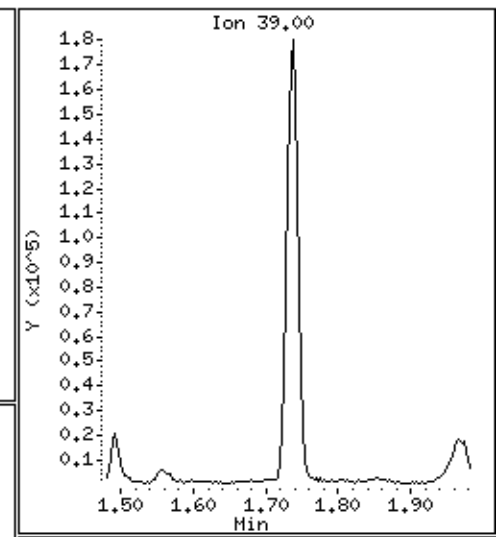
Concentration: 33.0 ppb

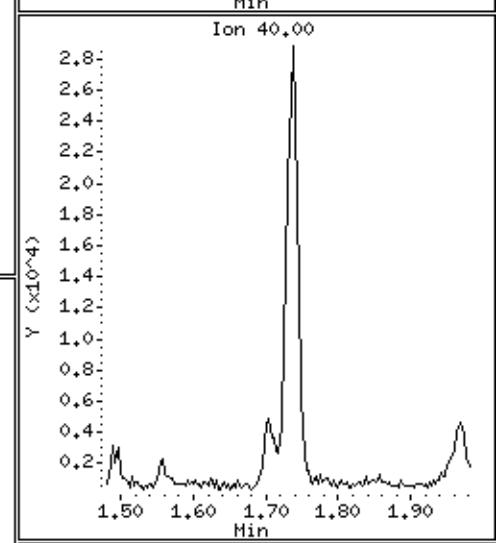


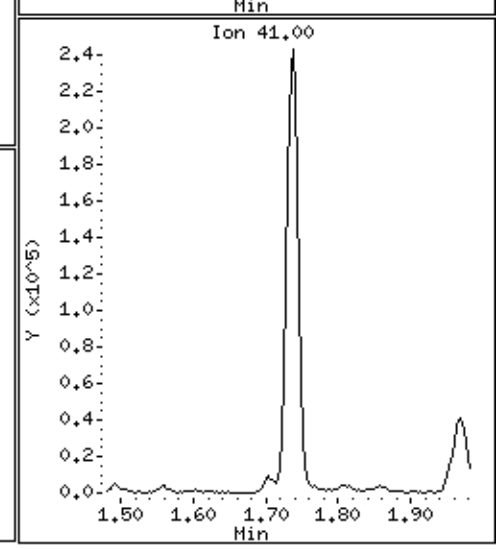












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

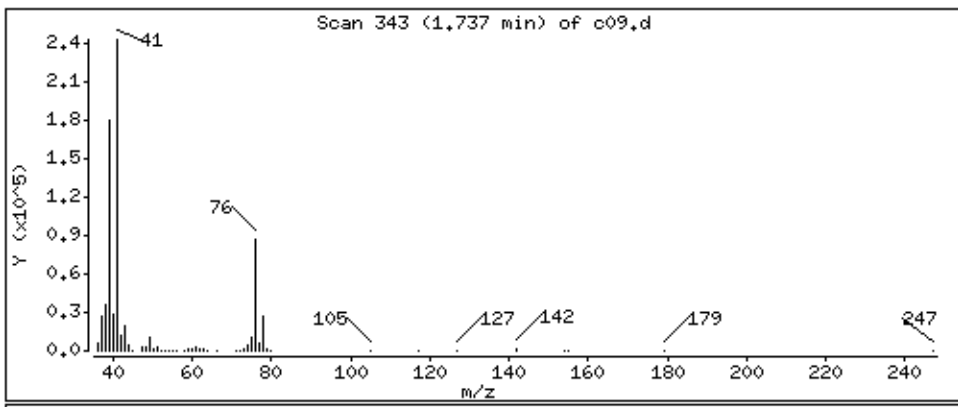
Operator: dae

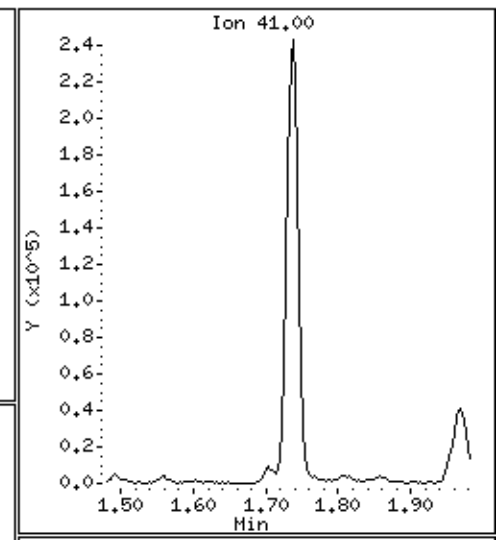
Column phase: DB-624

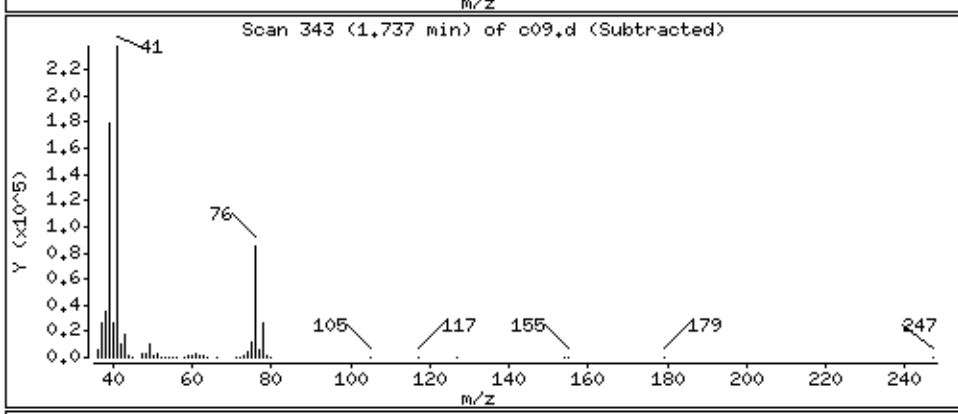
Column diameter: 0.18

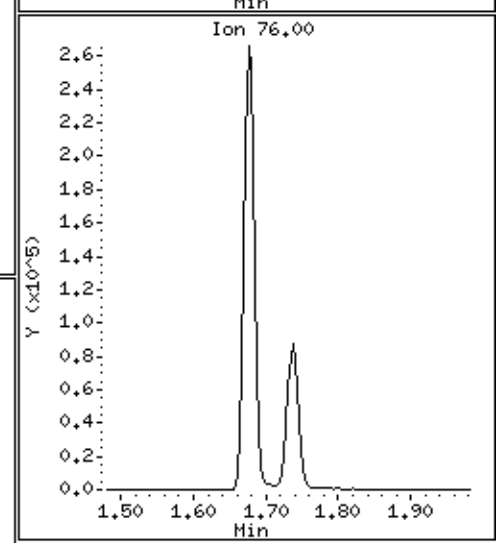
17 allyl chloride

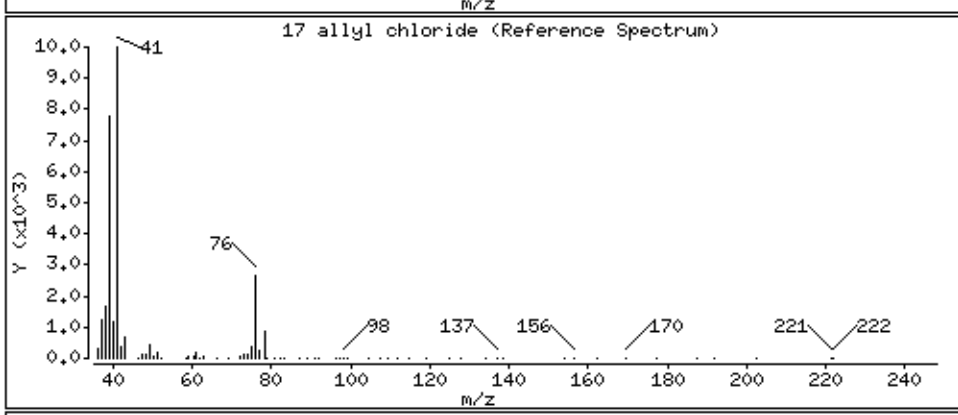
Concentration: 67.5 ppb

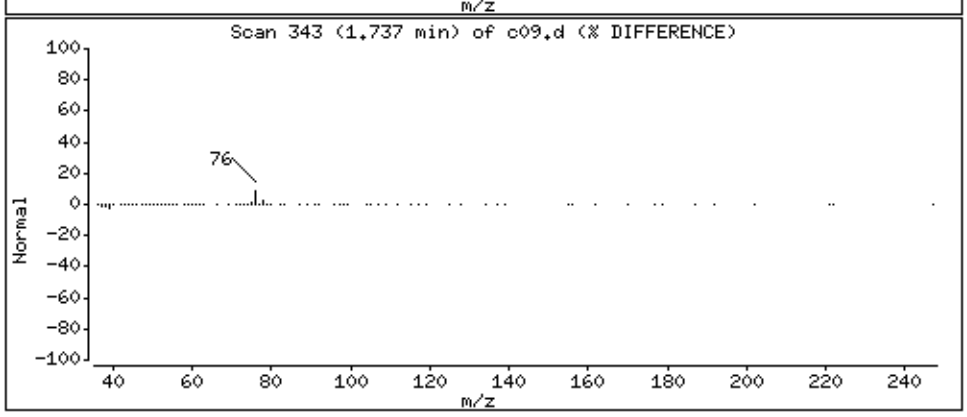












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

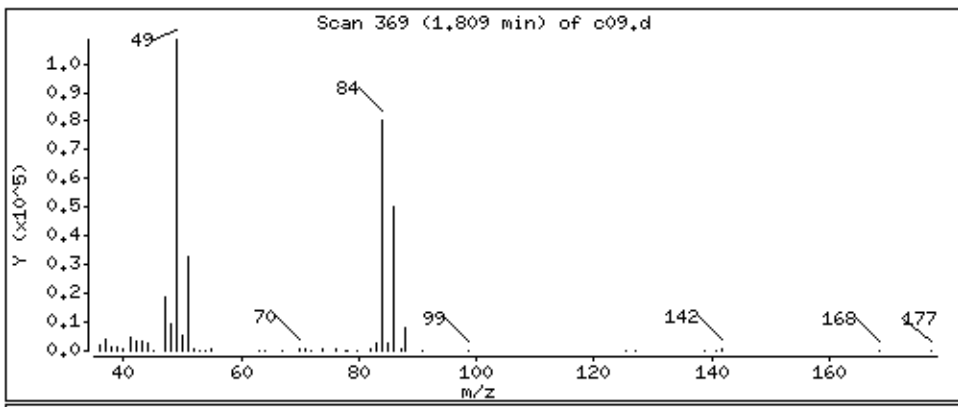
Operator: dae

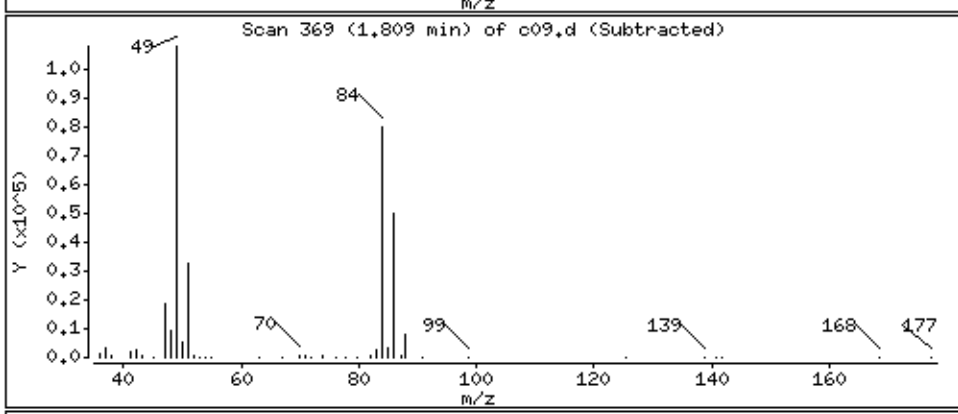
Column phase: DB-624

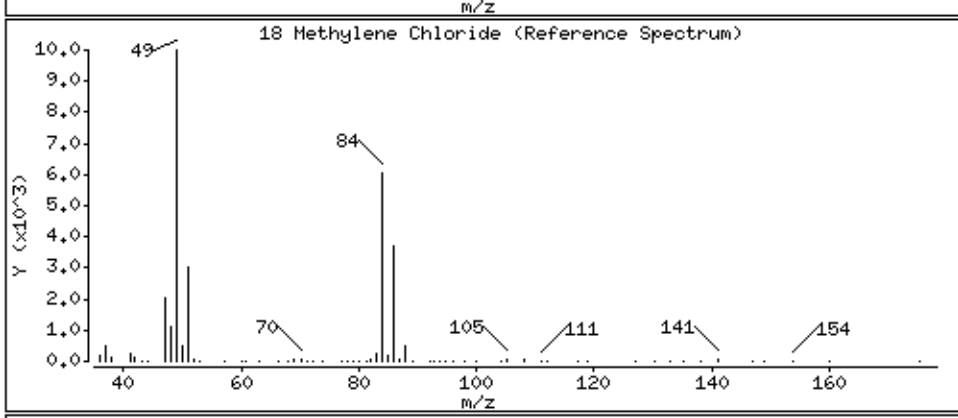
Column diameter: 0.18

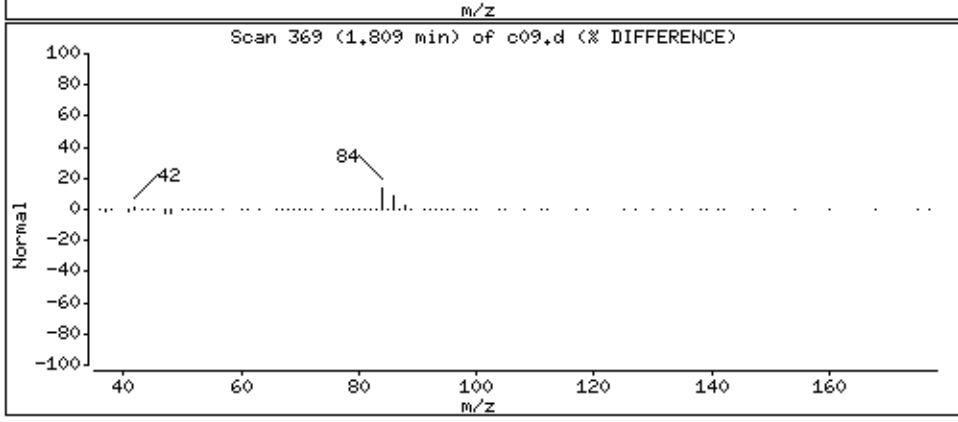
18 Methylene Chloride

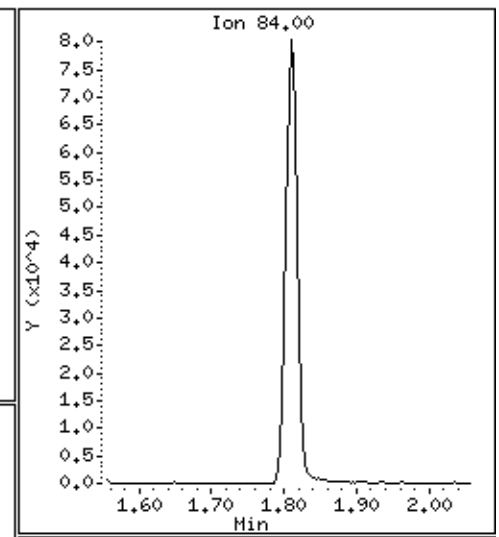
Concentration: 41.8 ppb

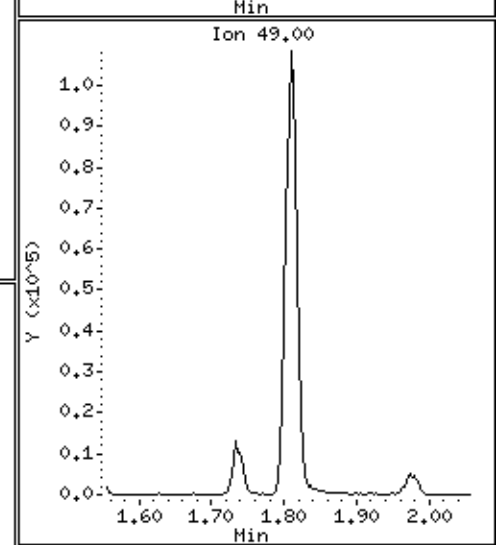


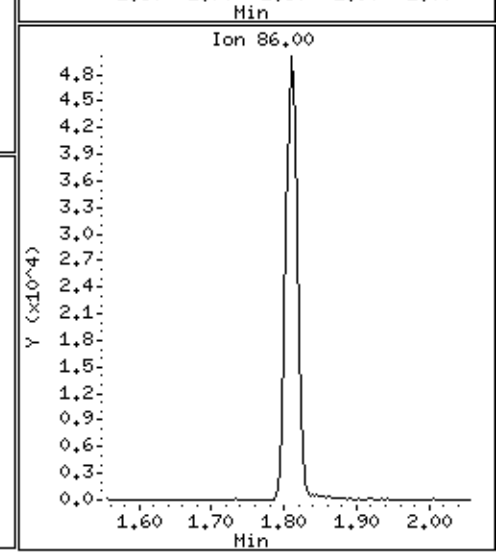












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

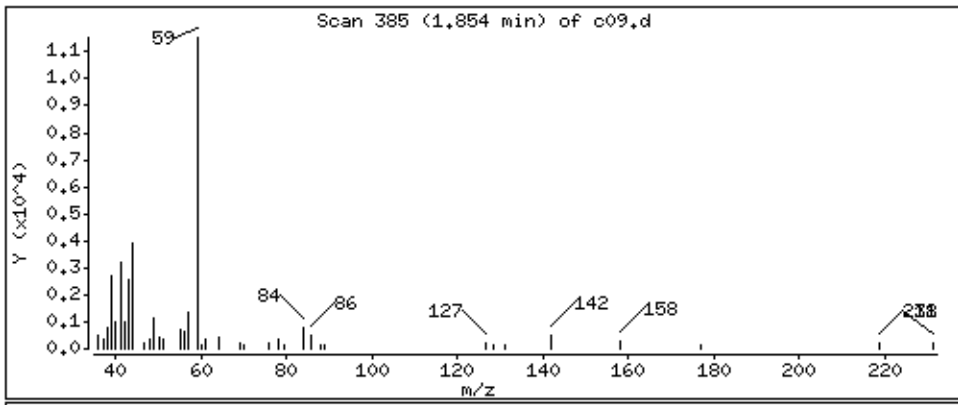
Operator: dae

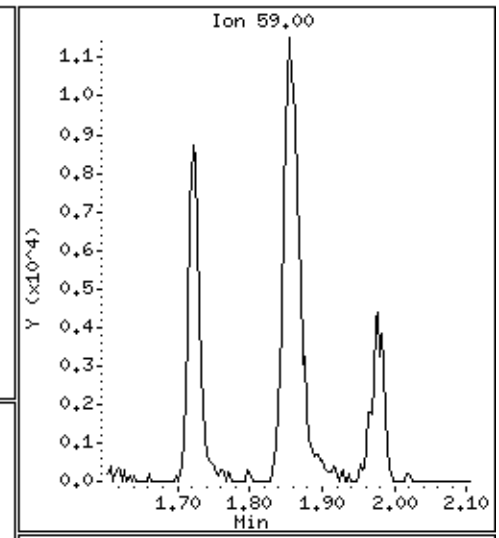
Column phase: DB-624

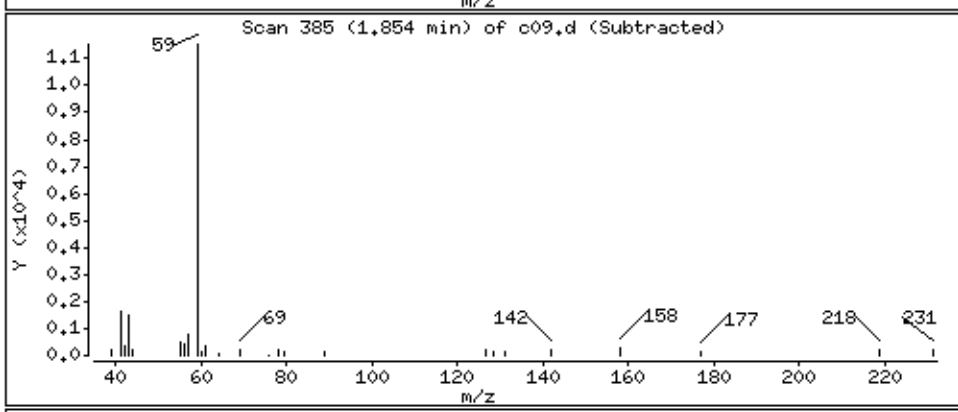
Column diameter: 0.18

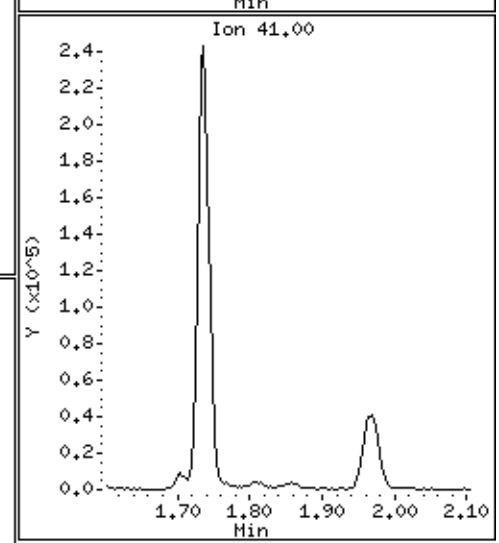
19 tert-Butyl Alcohol

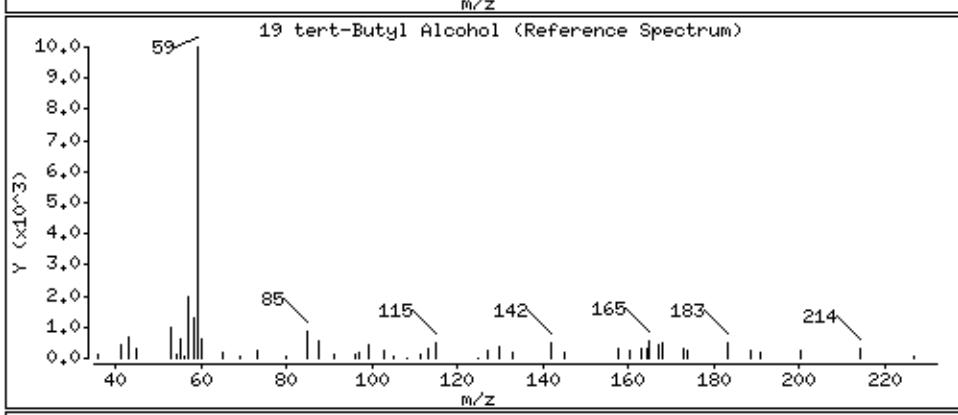
Concentration: 62.0 ppb

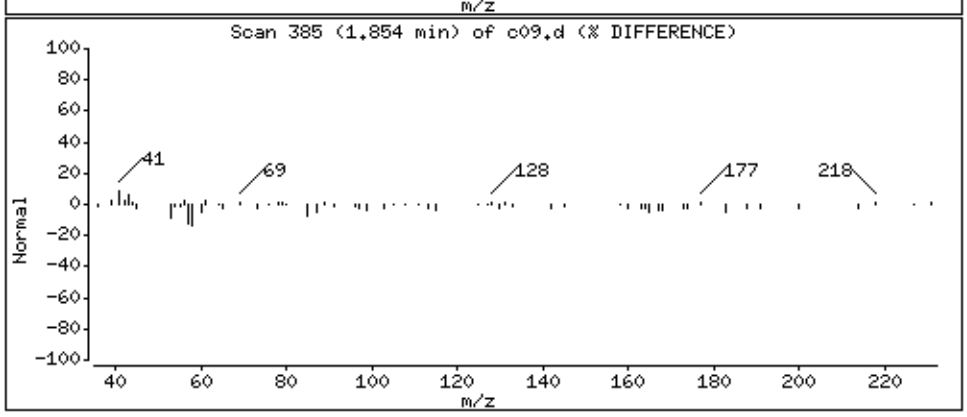












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

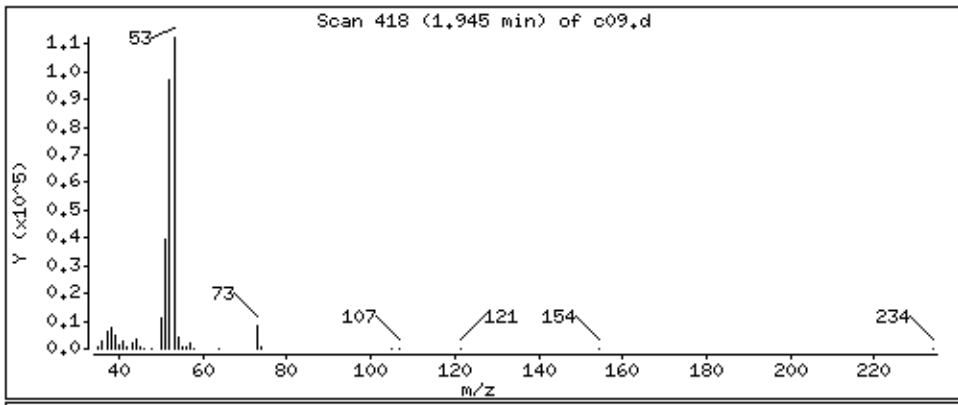
Operator: dae

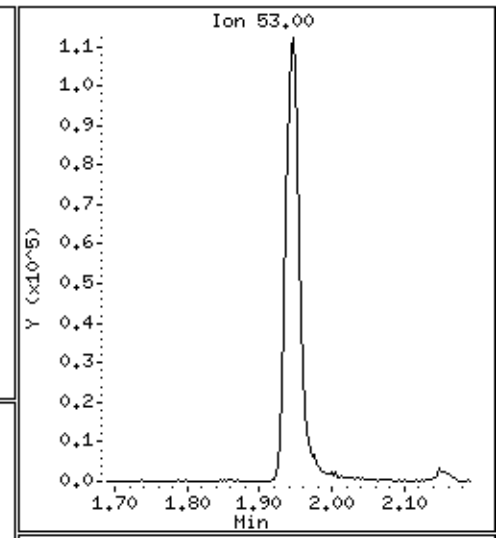
Column phase: DB-624

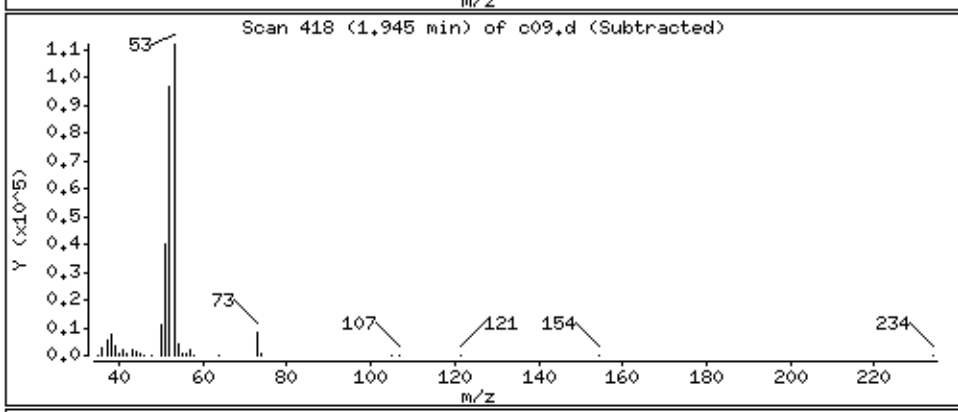
Column diameter: 0.18

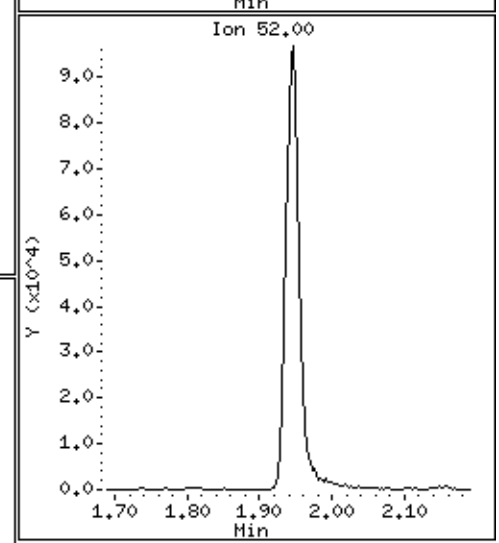
20 Acrylonitrile

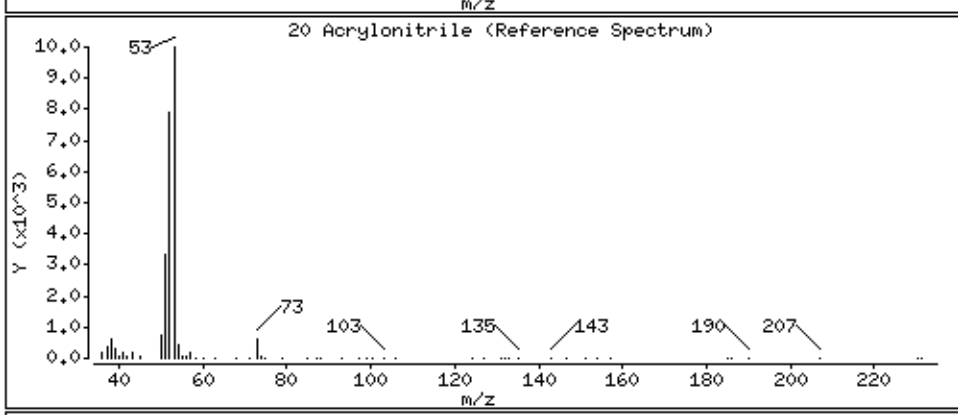
Concentration: 154 ppb

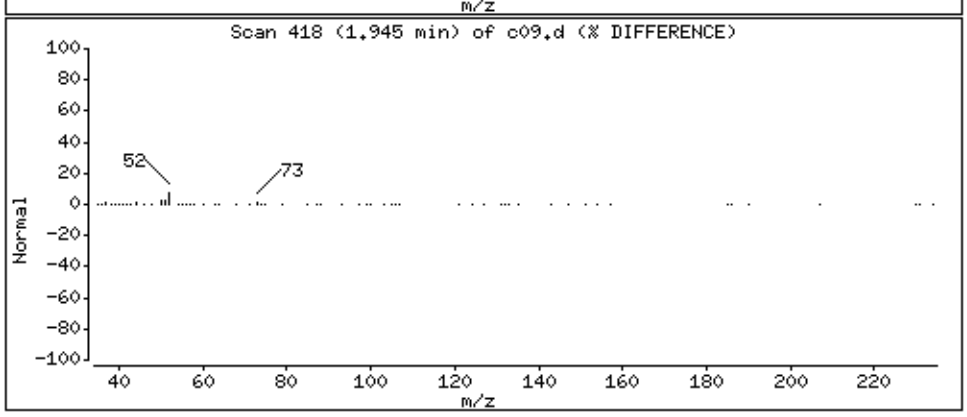












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

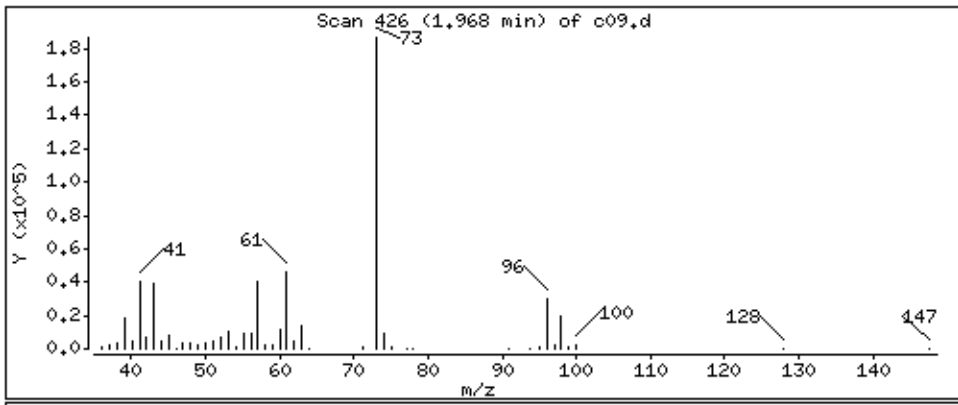
Operator: dae

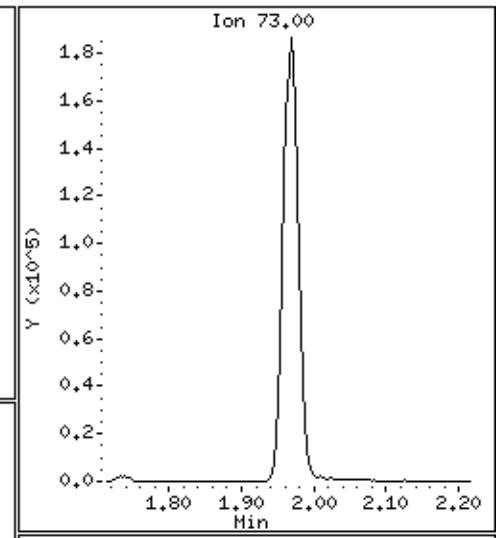
Column phase: DB-624

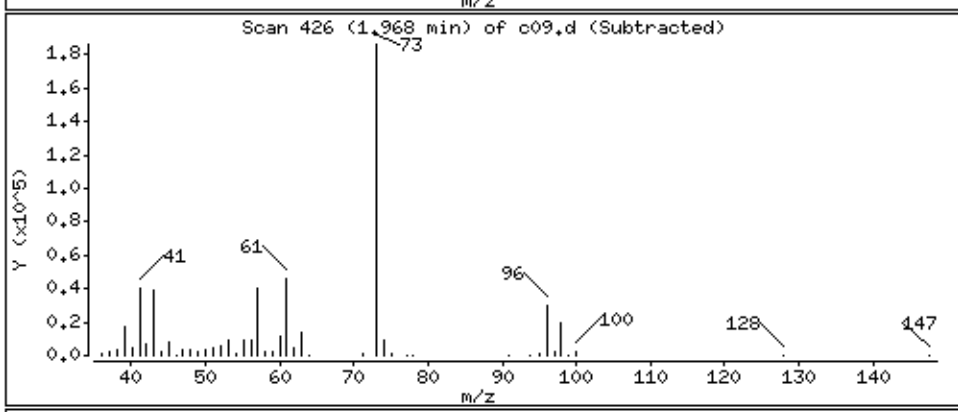
Column diameter: 0.18

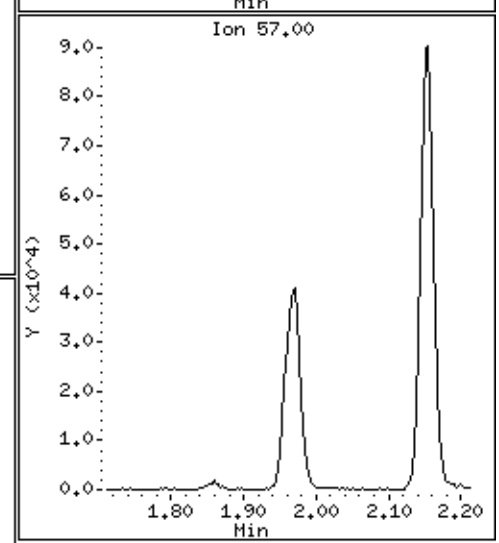
21 Methyl-tert-butyl ether

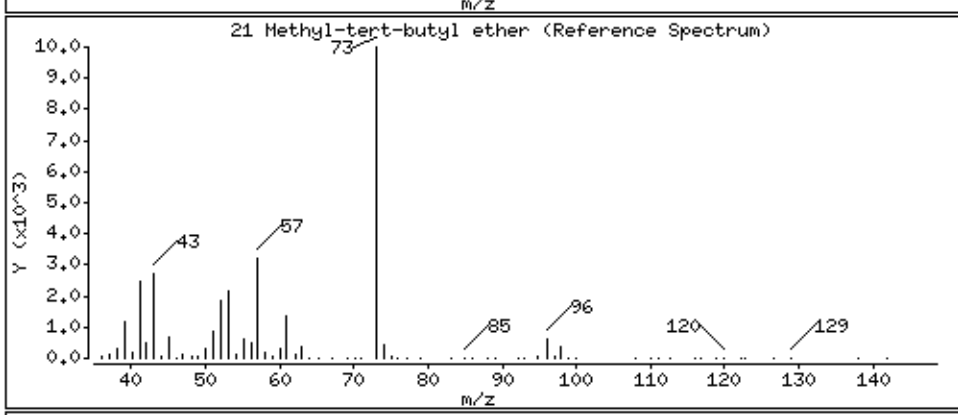
Concentration: 36.3 ppb

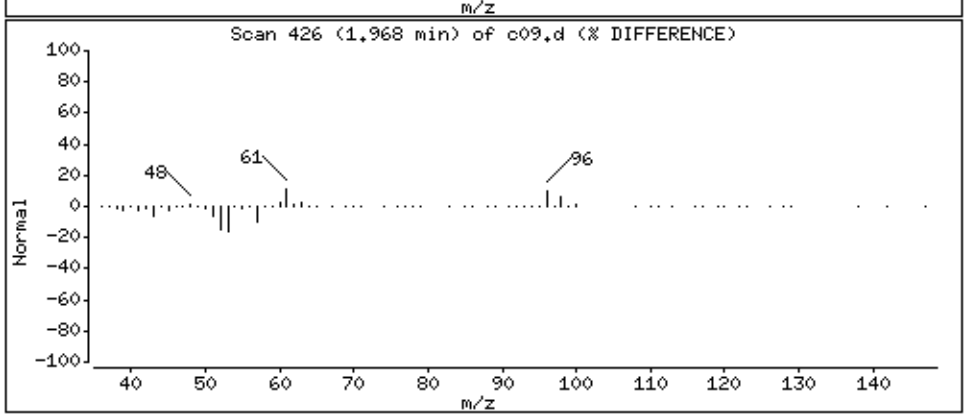












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Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

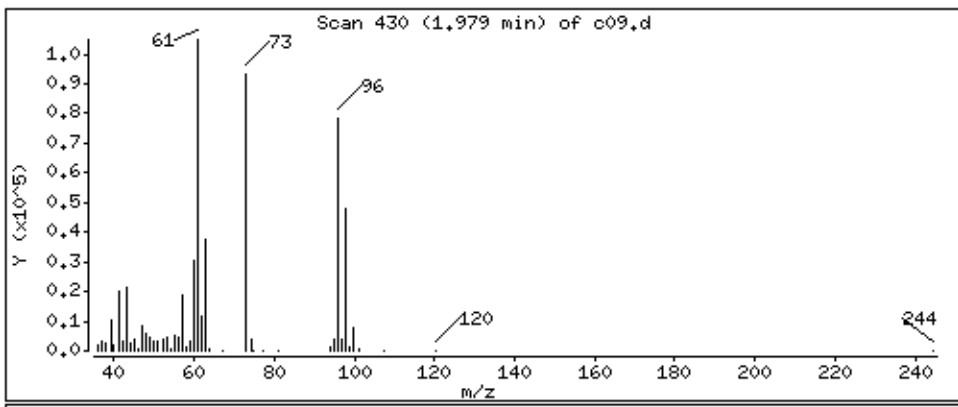
Operator: dae

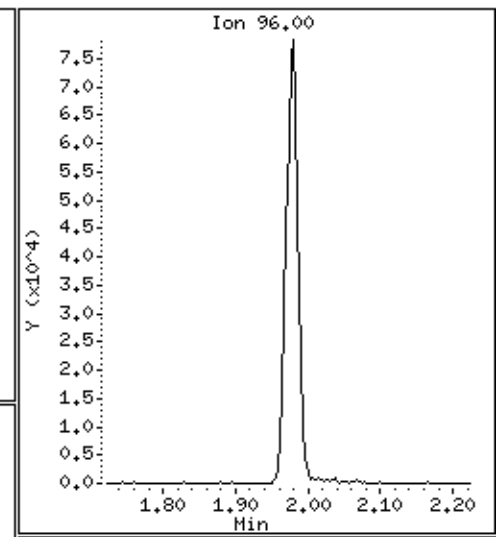
Column phase: DB-624

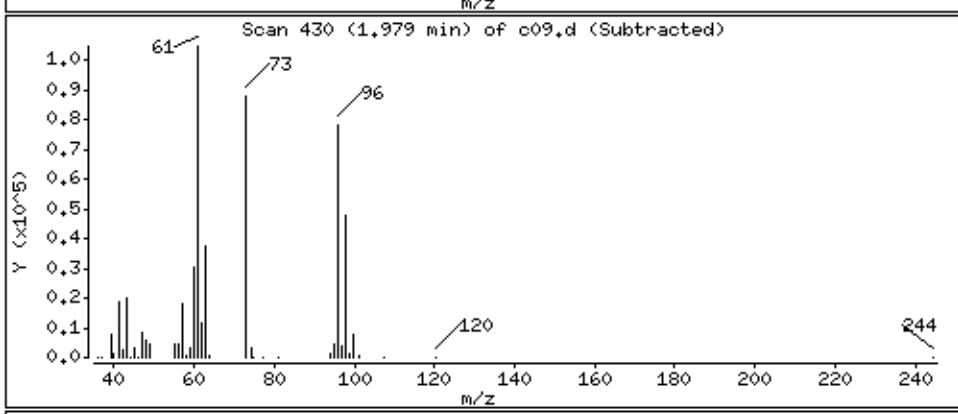
Column diameter: 0.18

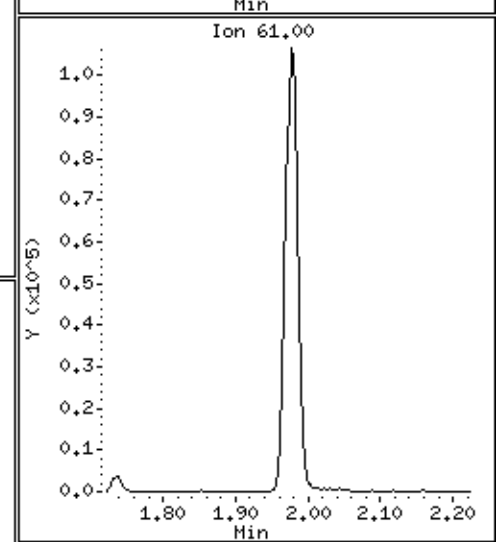
22 1,2-Dichloroethene (trans)

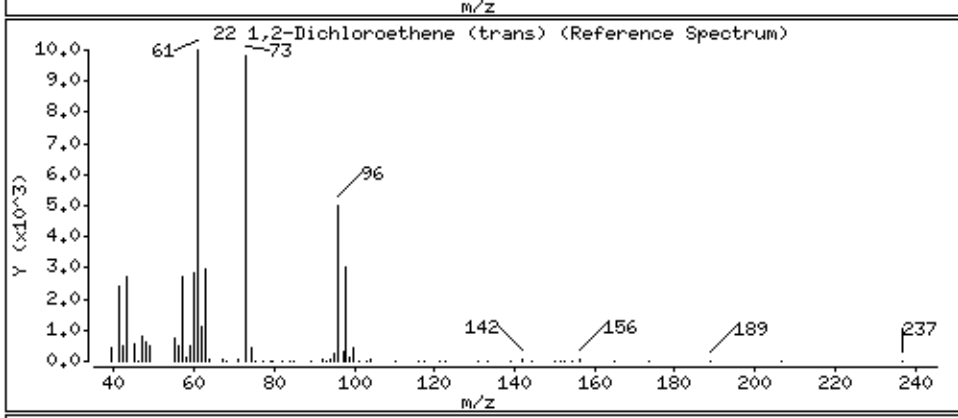
Concentration: 39.4 ppb

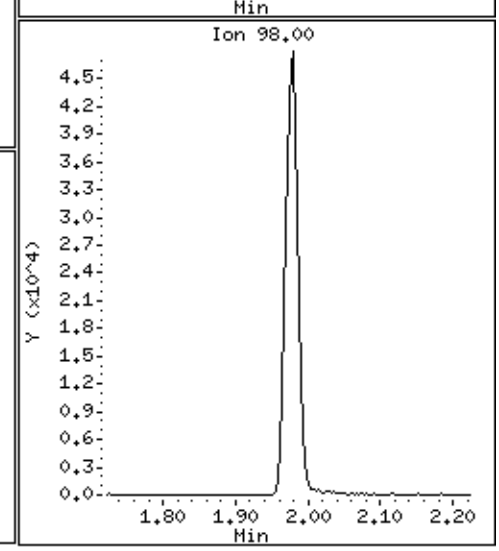


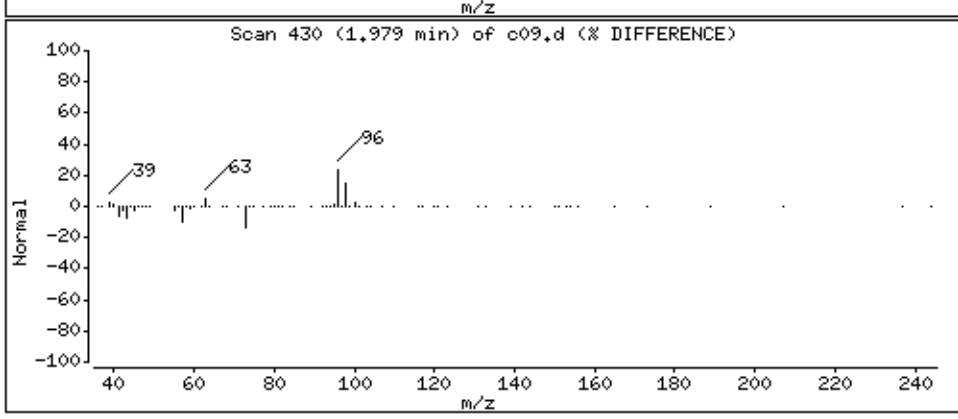












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

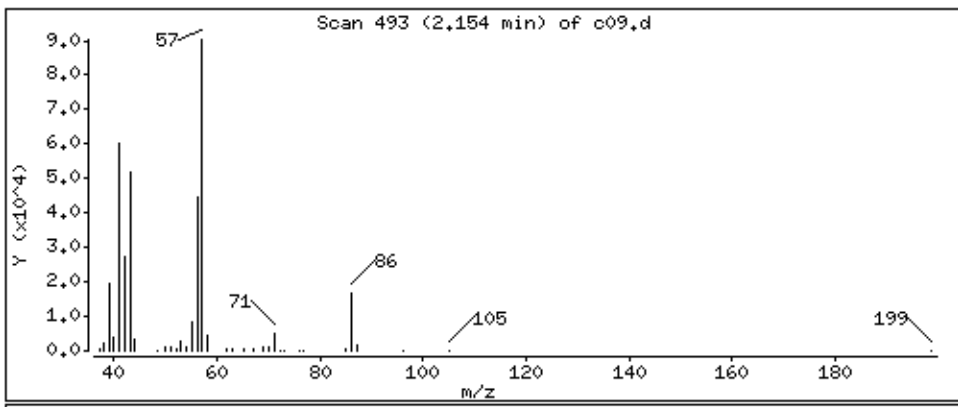
Operator: dae

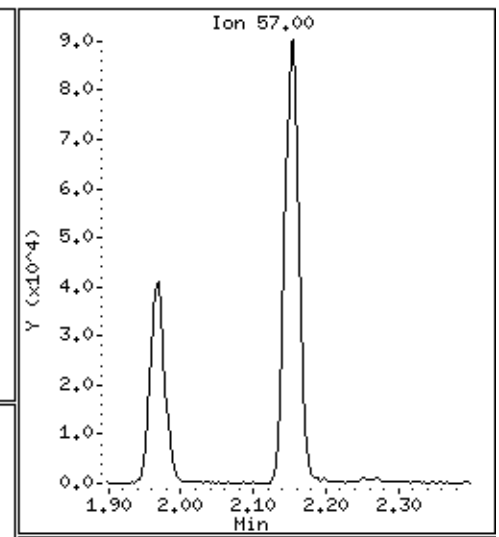
Column phase: DB-624

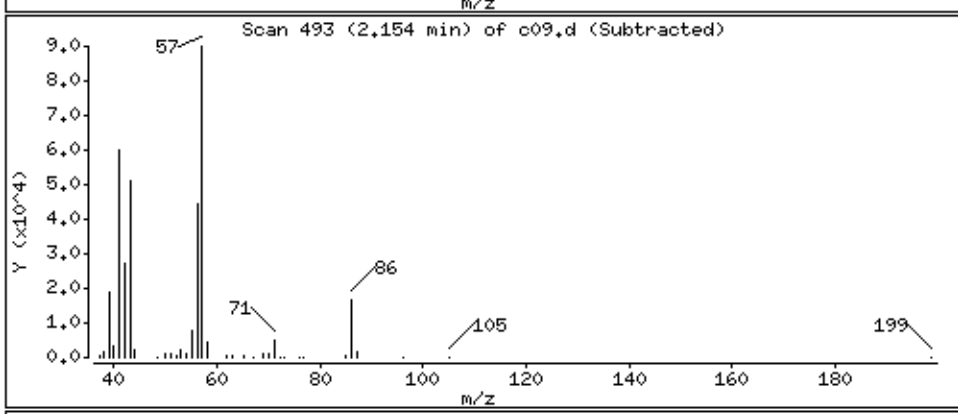
Column diameter: 0.18

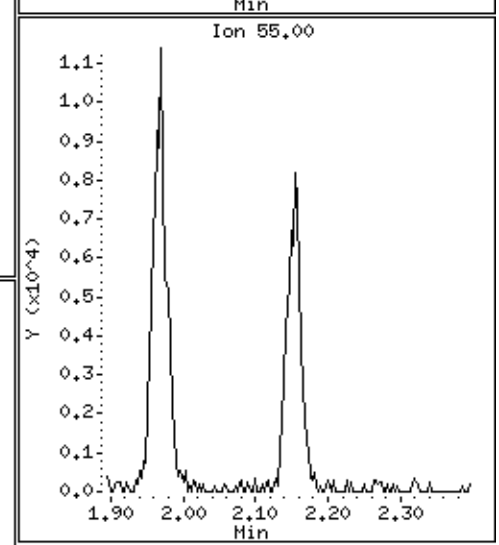
23 n-Hexane

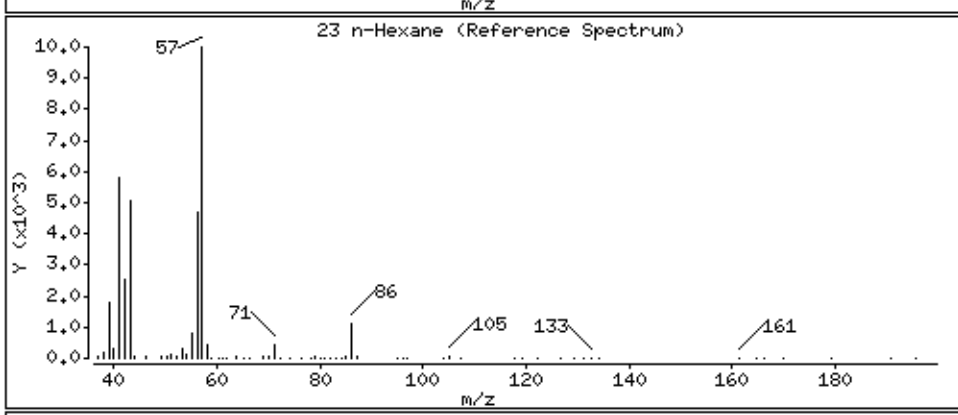
Concentration: 38.4 ppb

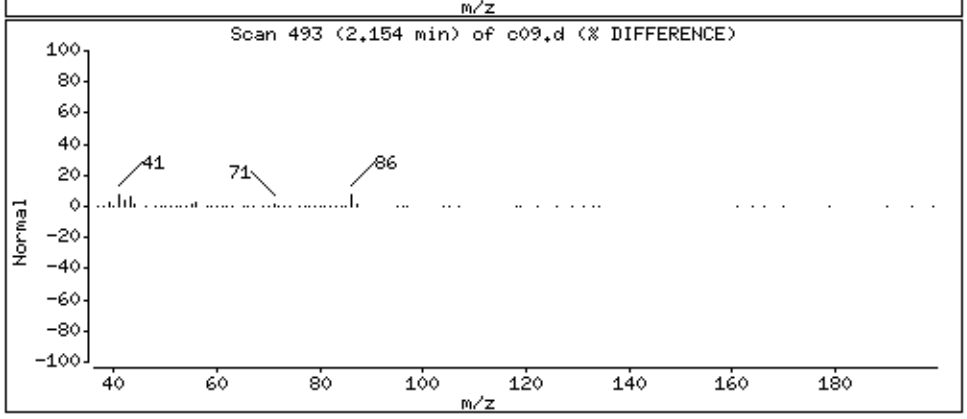












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

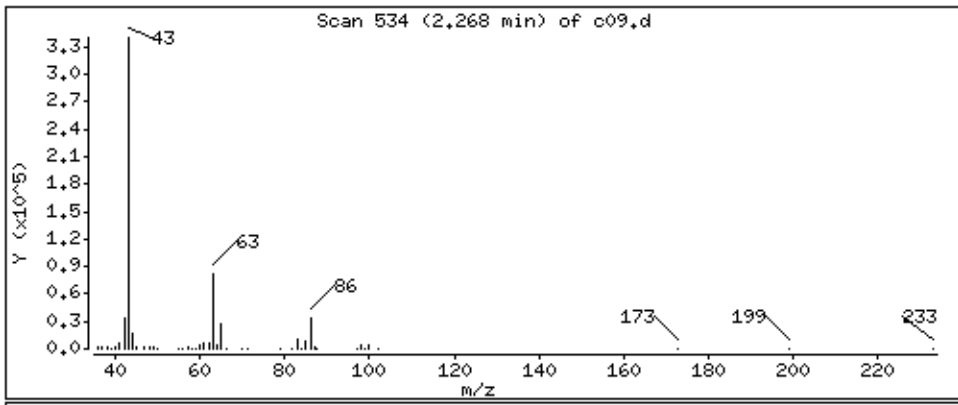
Operator: dae

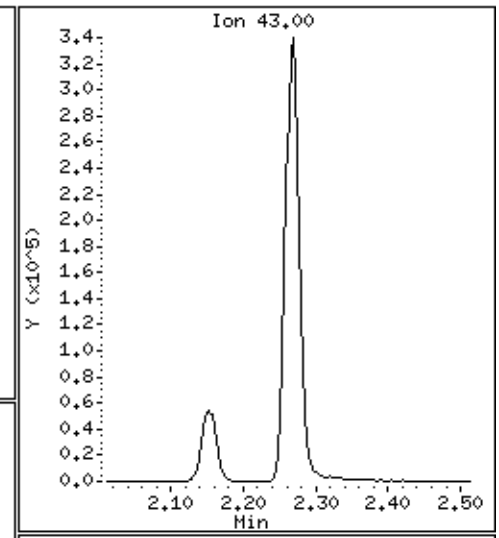
Column phase: DB-624

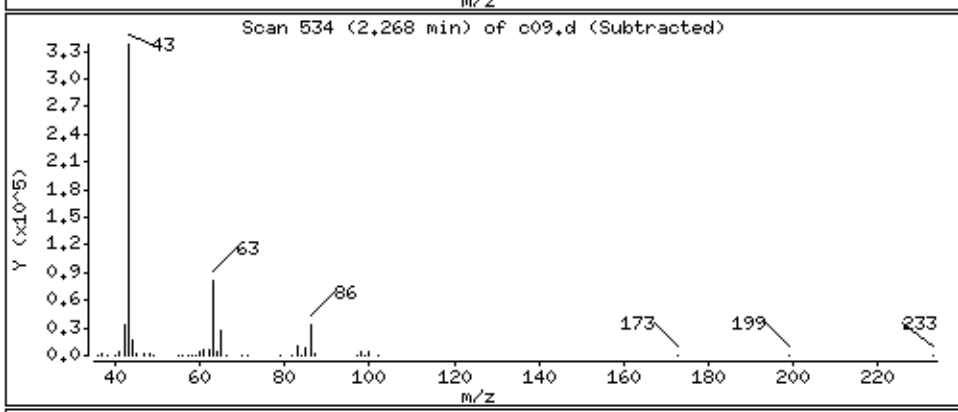
Column diameter: 0.18

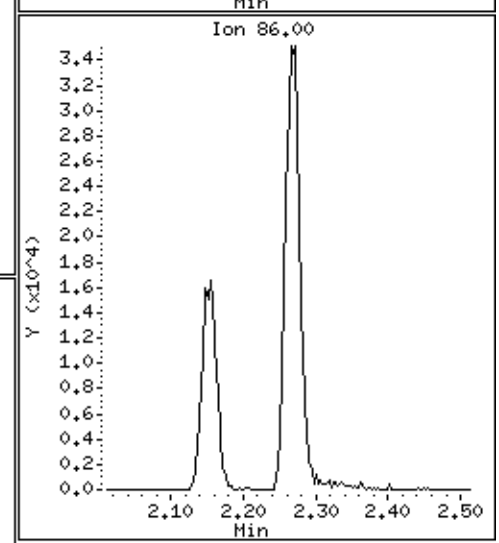
24 Vinyl Acetate

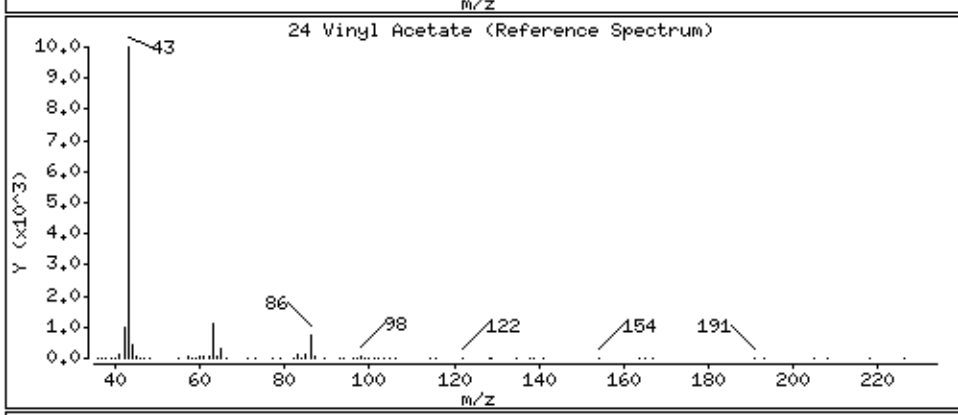
Concentration: 90.6 ppb

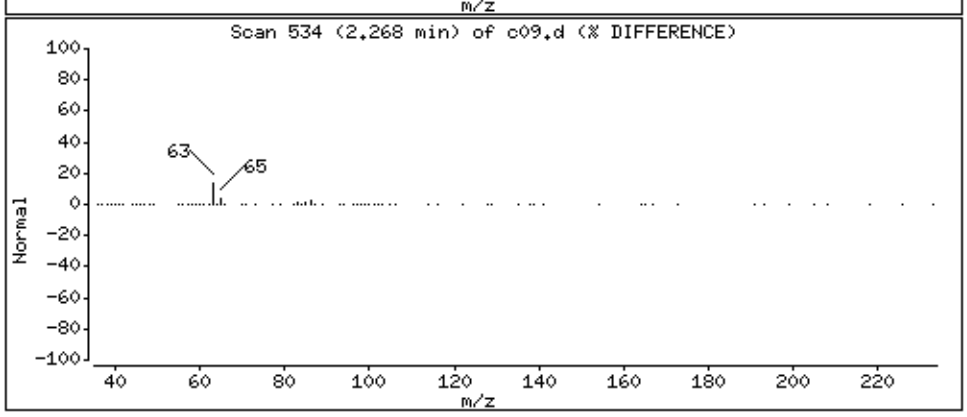












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

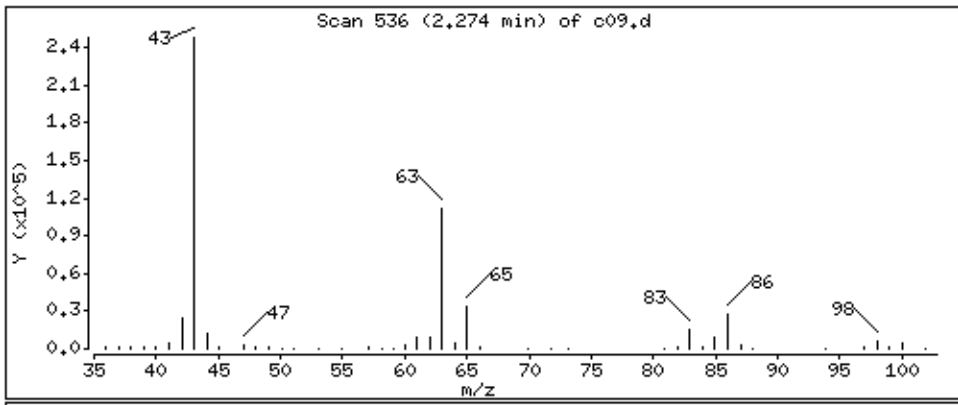
Operator: dae

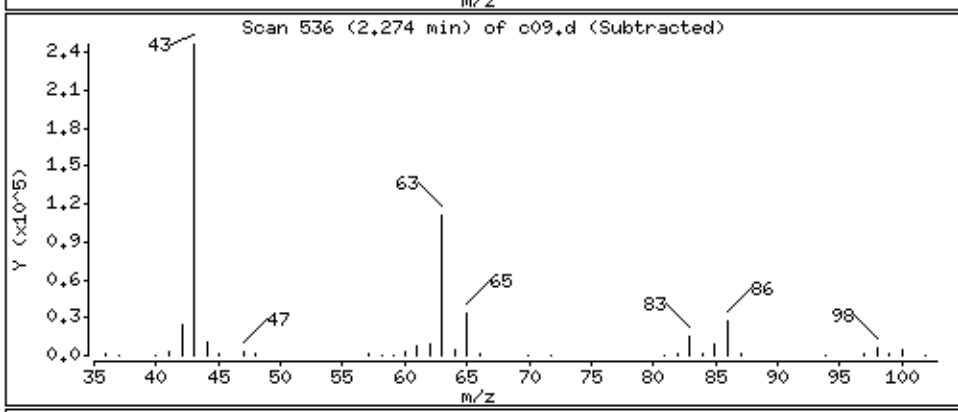
Column phase: DB-624

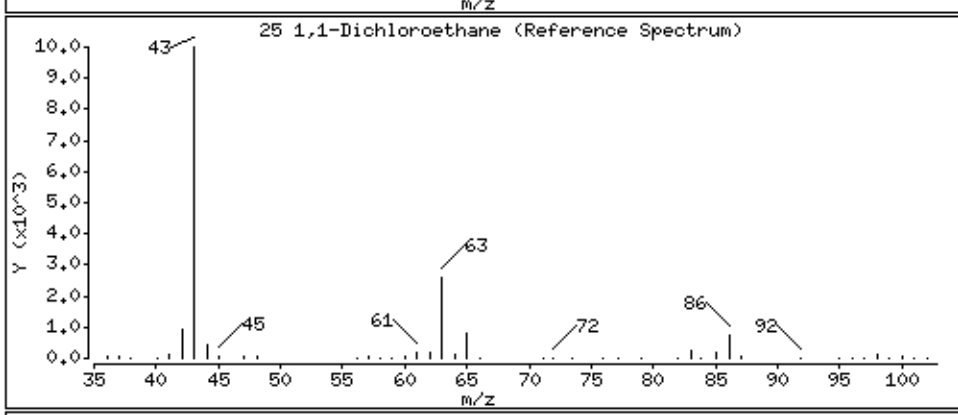
Column diameter: 0.18

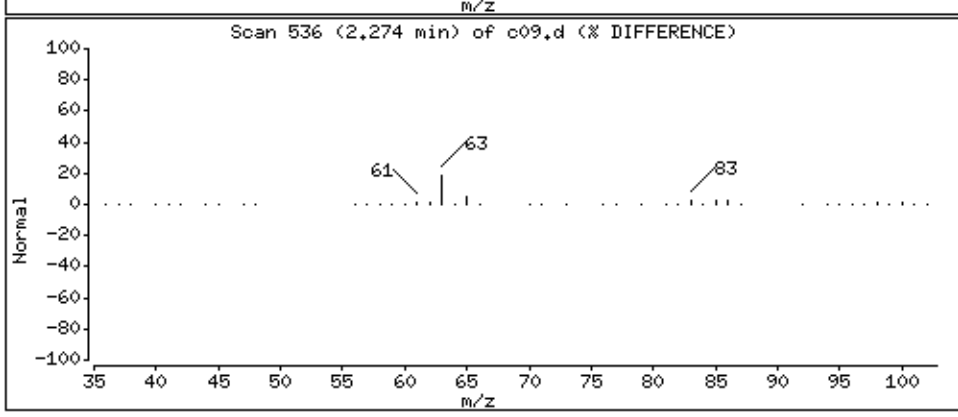
25 1,1-Dichloroethane

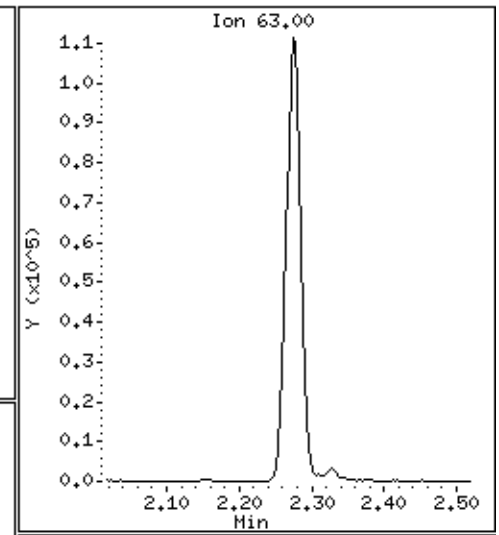
Concentration: 38.5 ppb

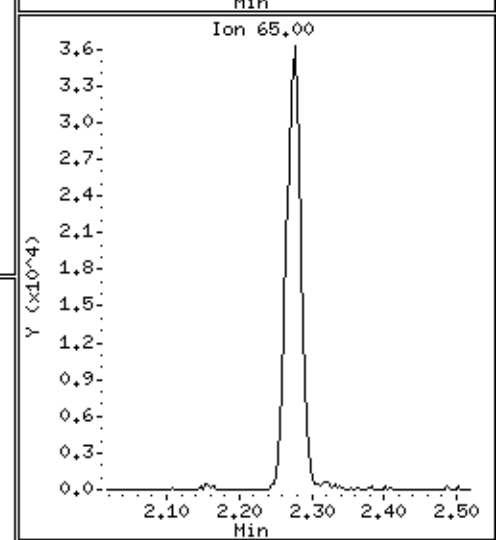


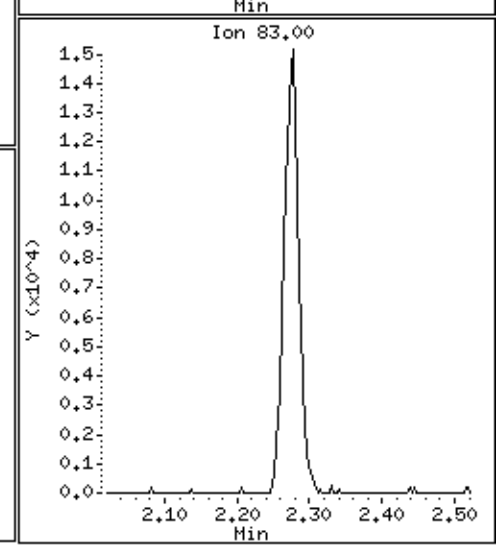












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

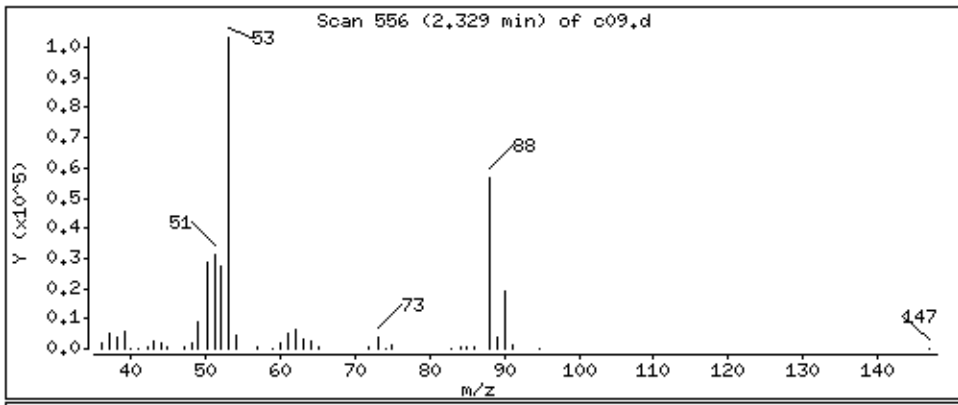
Operator: dae

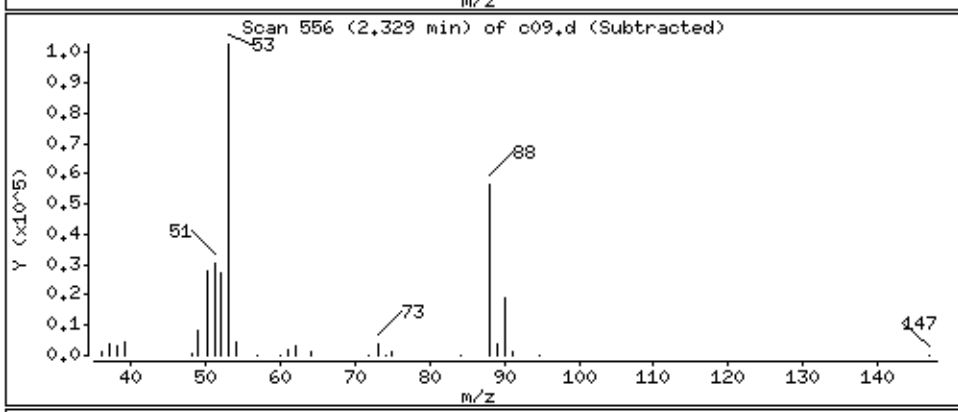
Column phase: DB-624

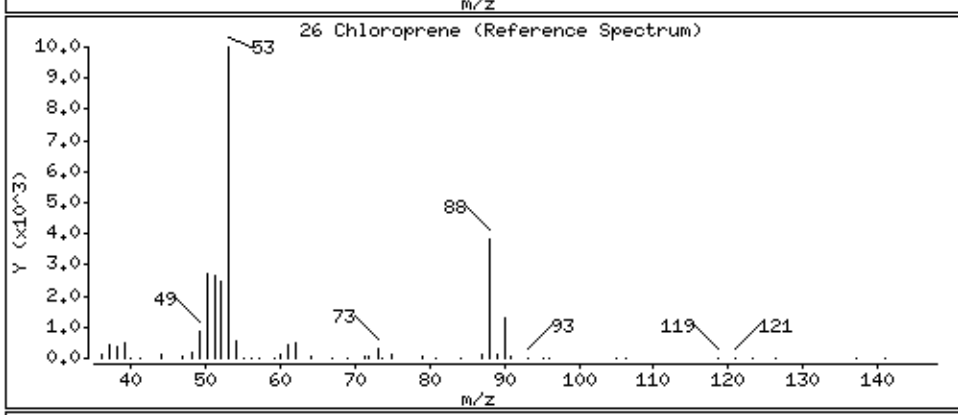
Column diameter: 0.18

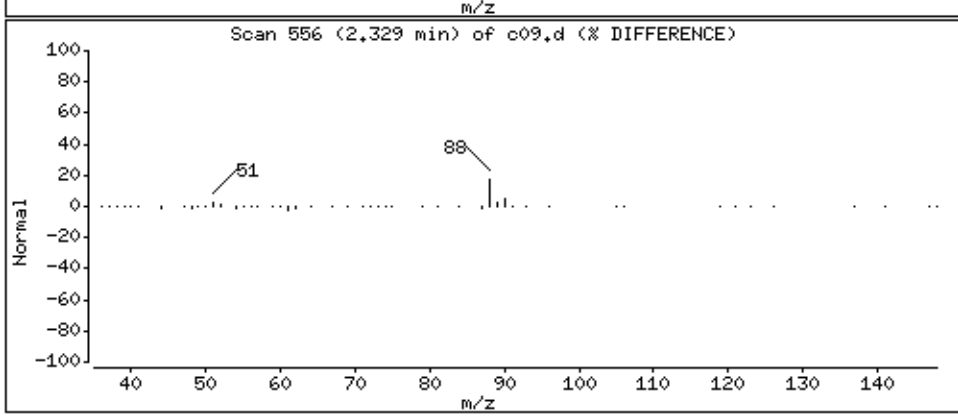
26 Chloroprene

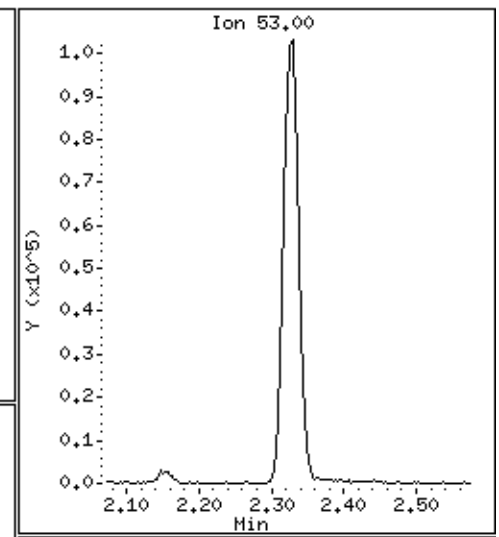
Concentration: 41.3 ppb

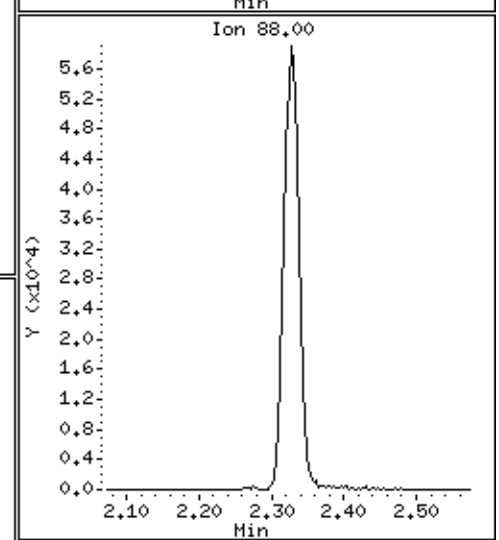


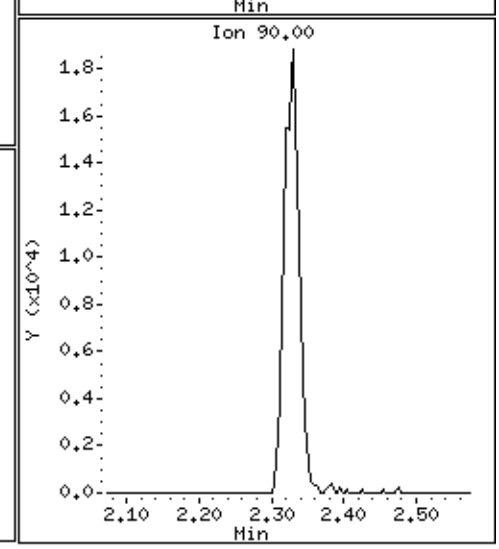












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

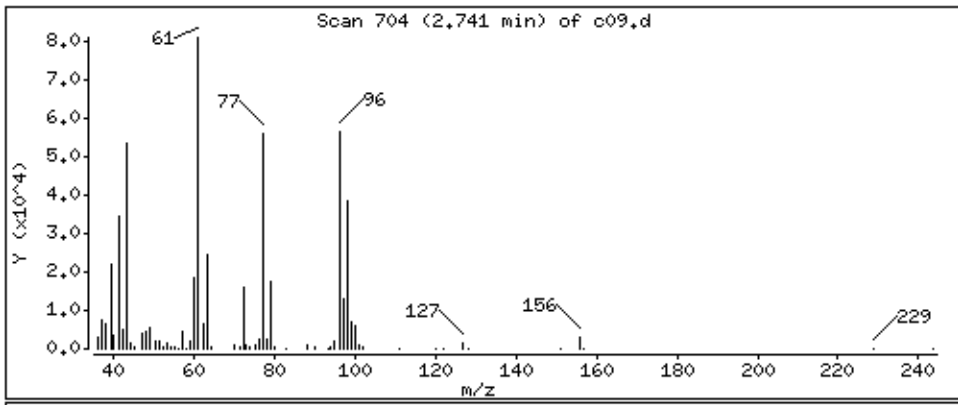
Operator: dae

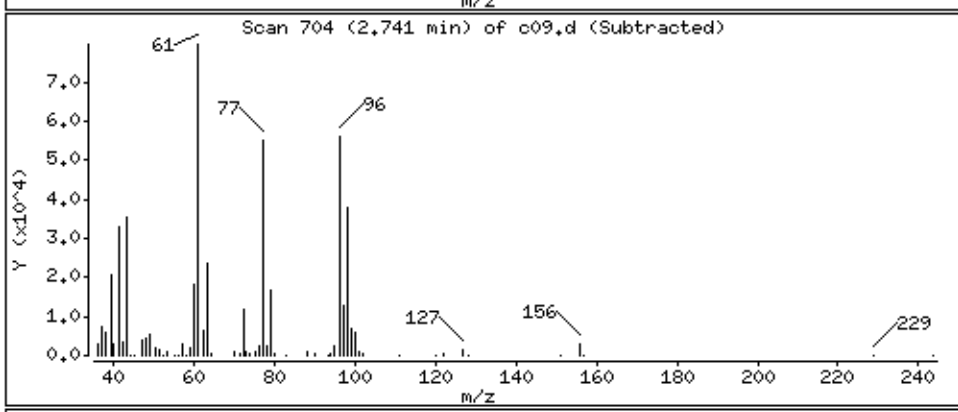
Column phase: DB-624

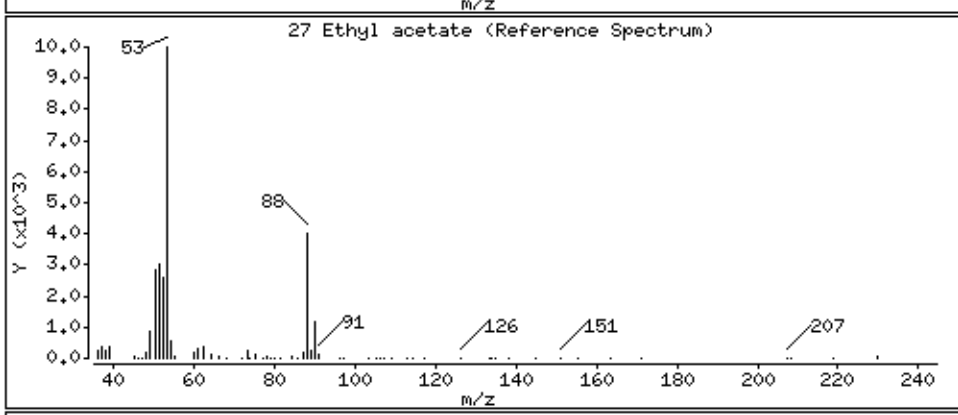
Column diameter: 0.18

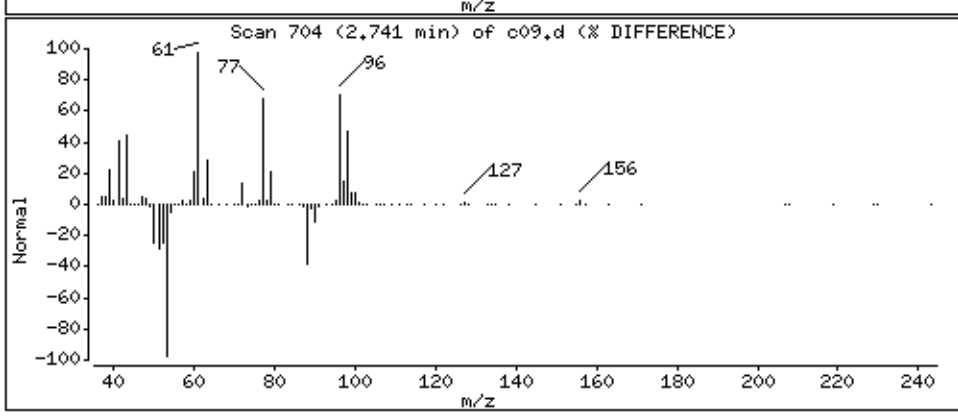
27 Ethyl acetate

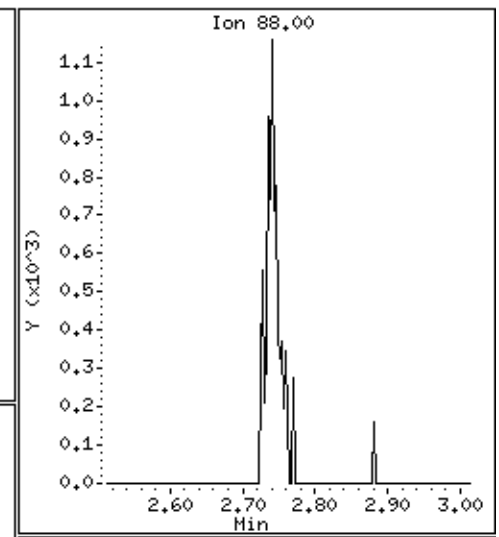
Concentration: 9.35 ppb

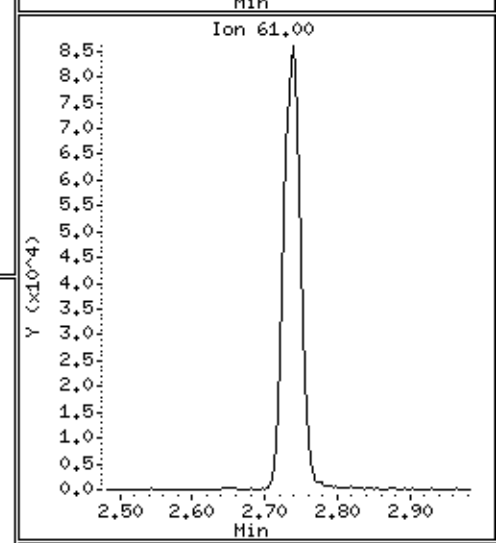


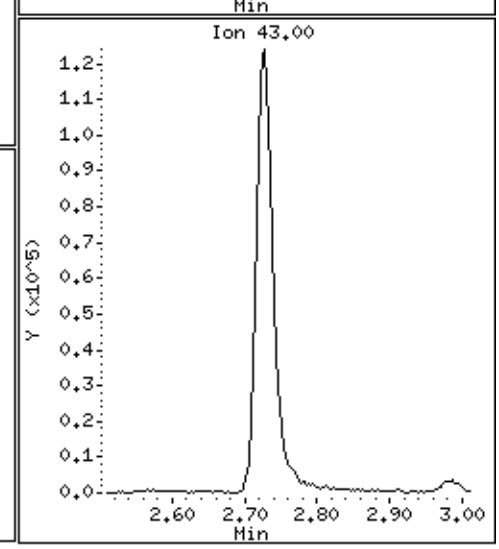












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

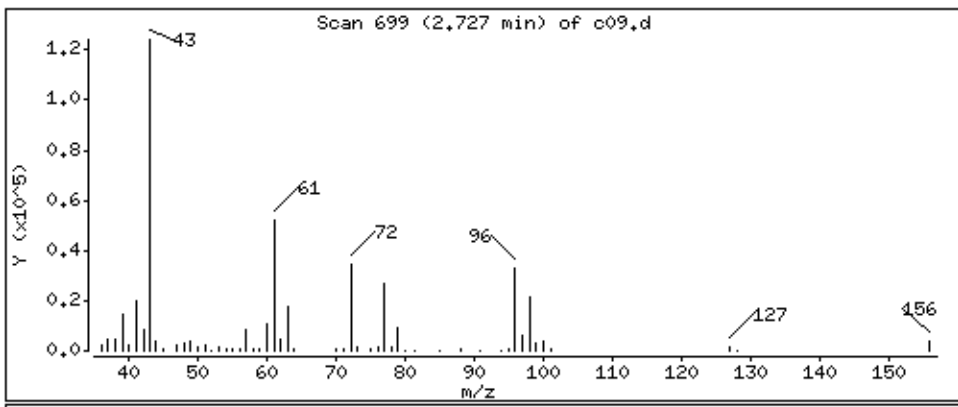
Operator: dae

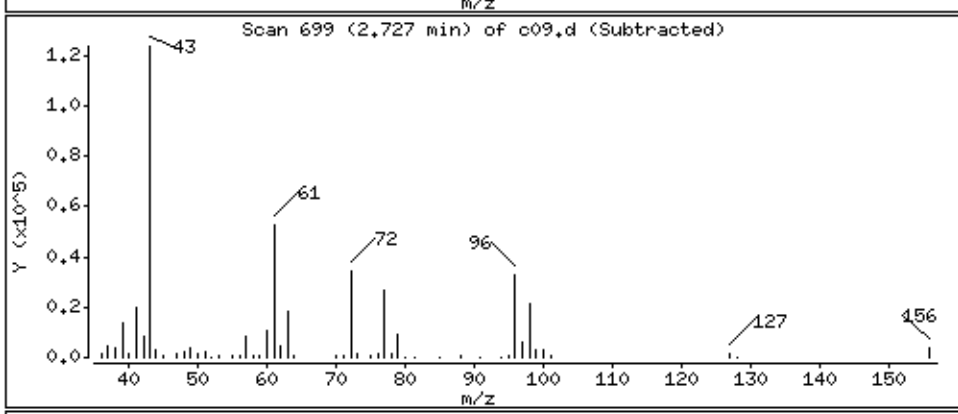
Column phase: DB-624

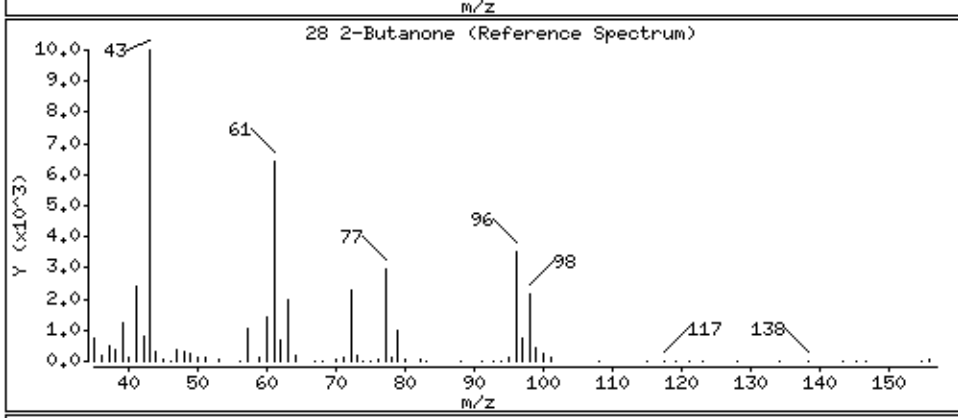
Column diameter: 0.18

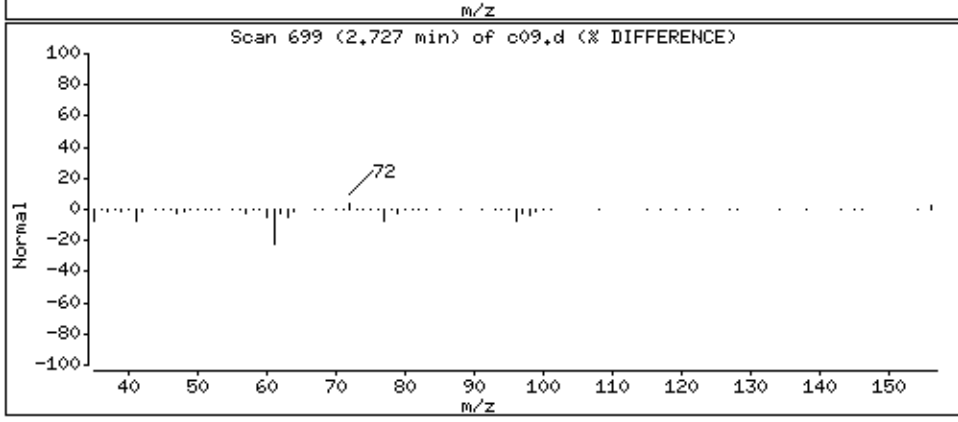
28 2-Butanone

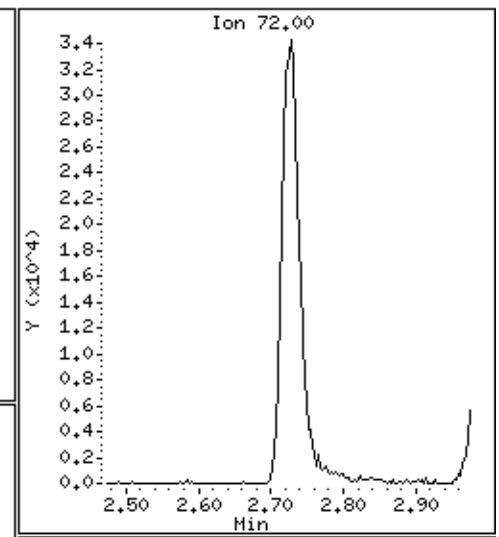
Concentration: 174 ppb

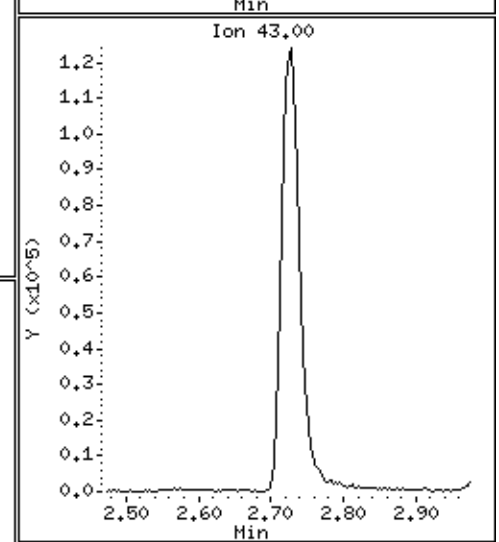


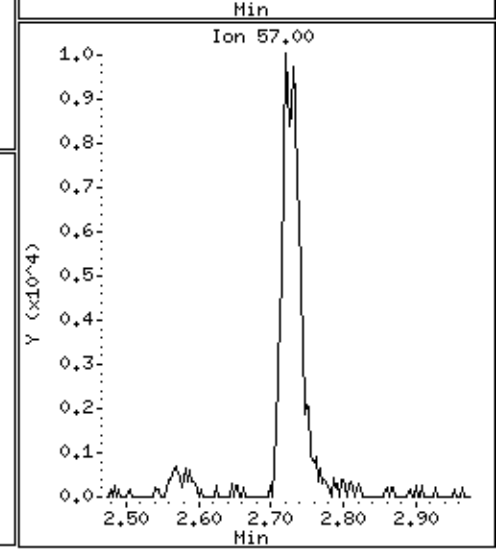












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

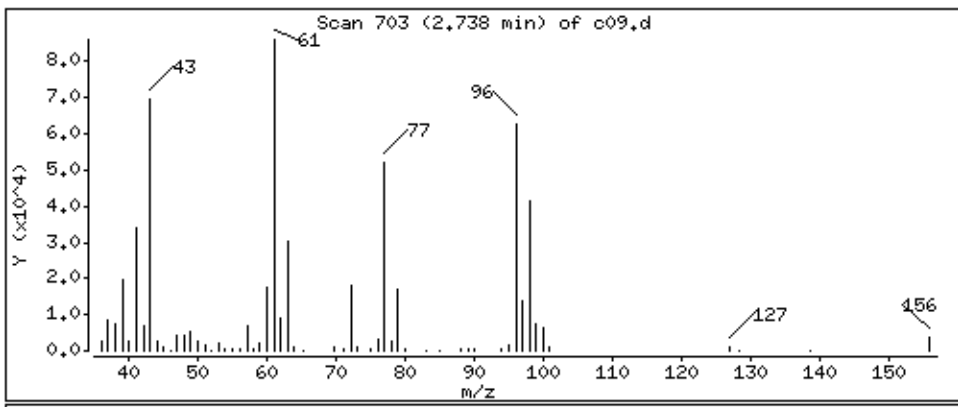
Operator: dae

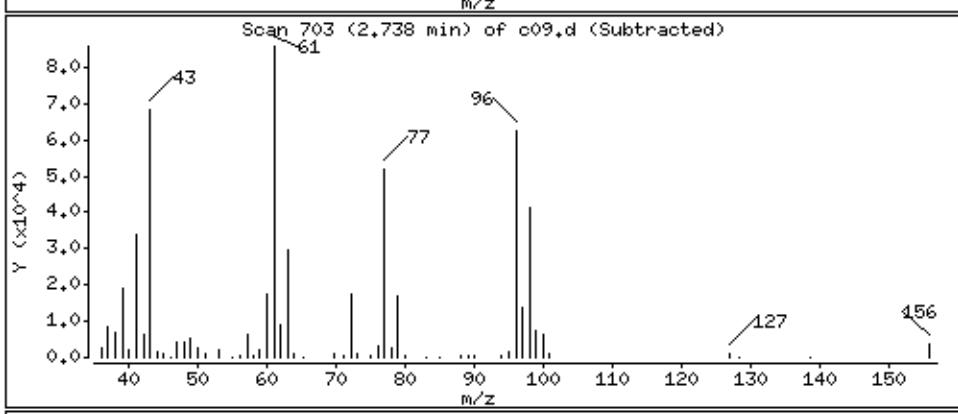
Column phase: DB-624

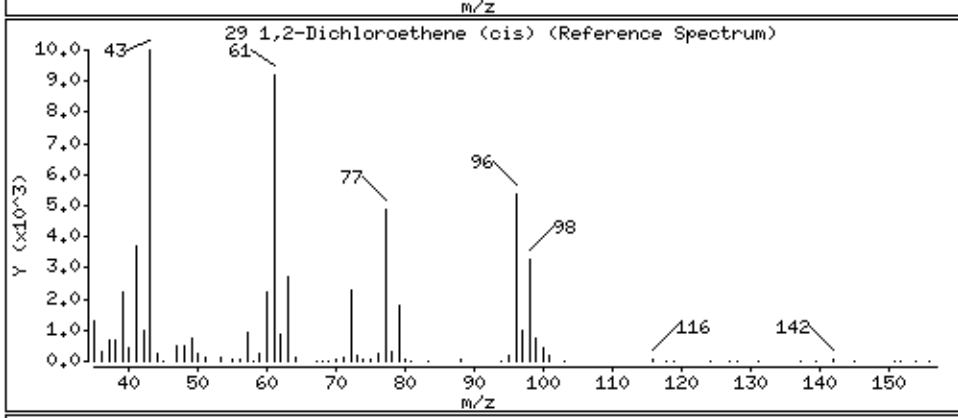
Column diameter: 0.18

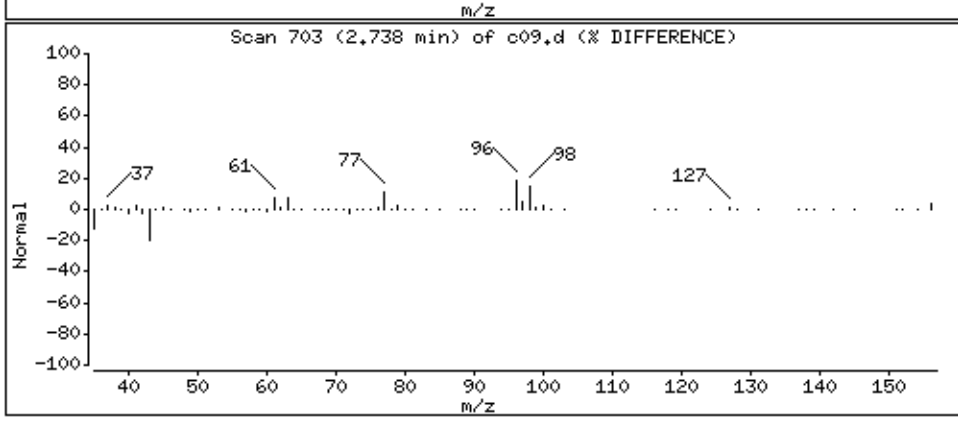
29 1,2-Dichloroethene (cis)

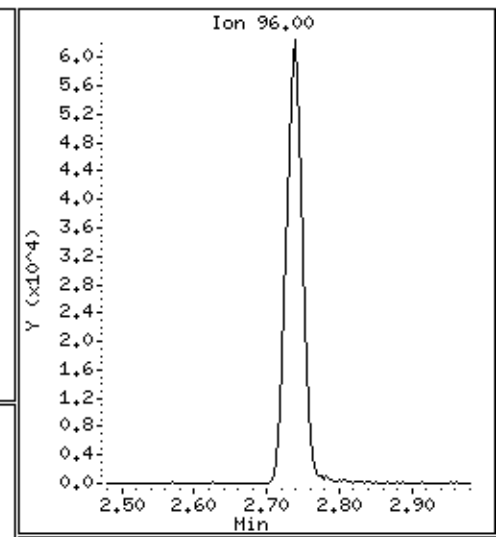
Concentration: 40.2 ppb

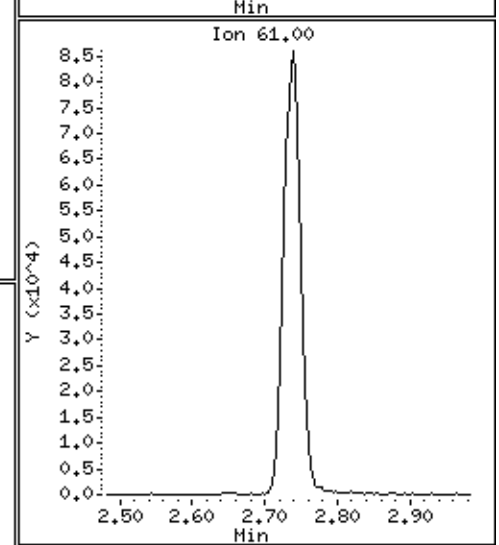


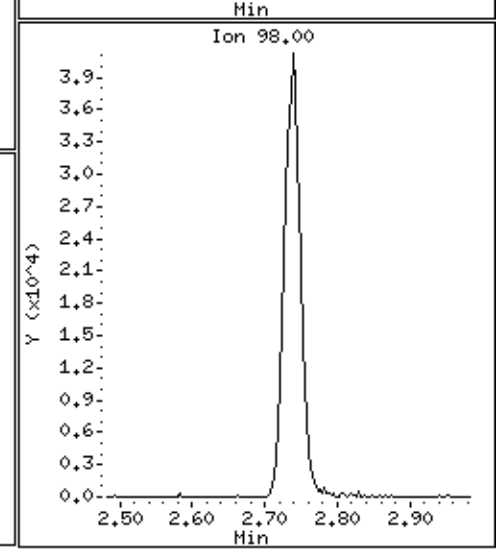












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

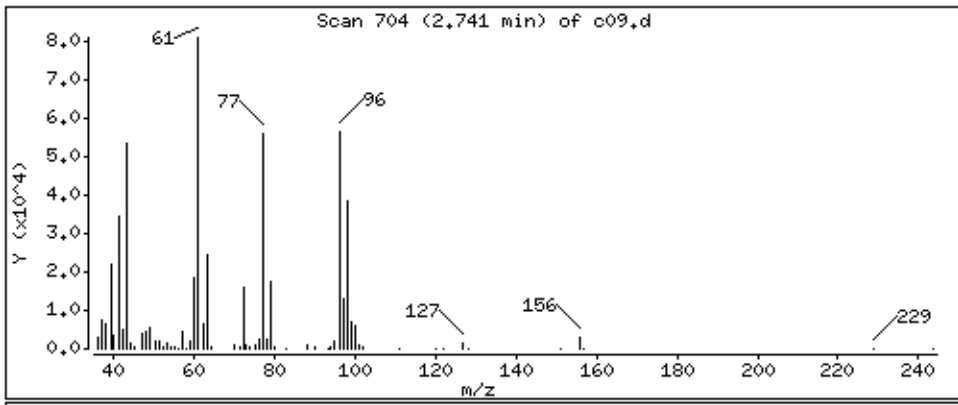
Operator: dae

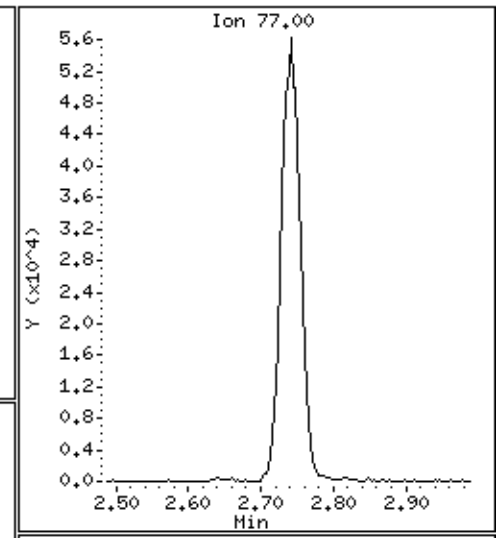
Column phase: DB-624

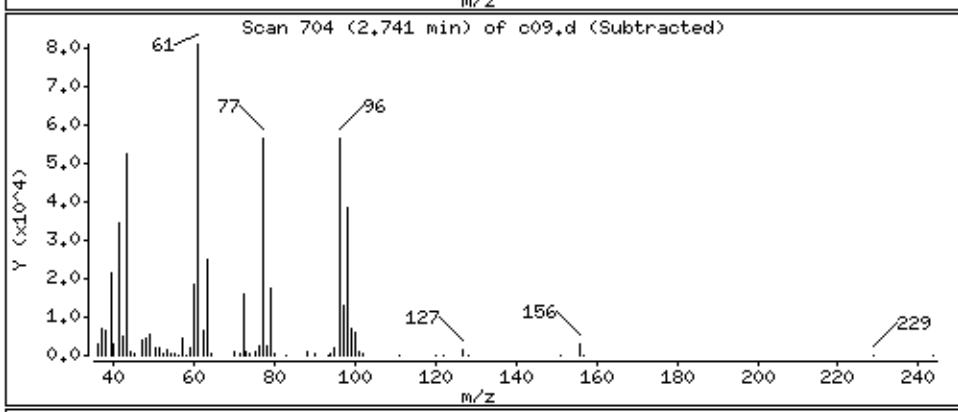
Column diameter: 0.18

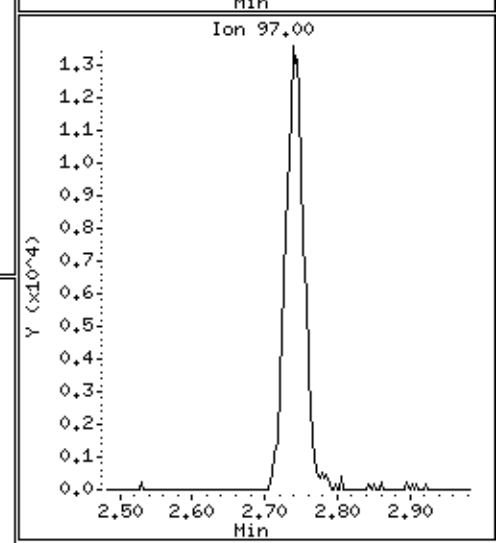
30 2,2-Dichloropropane

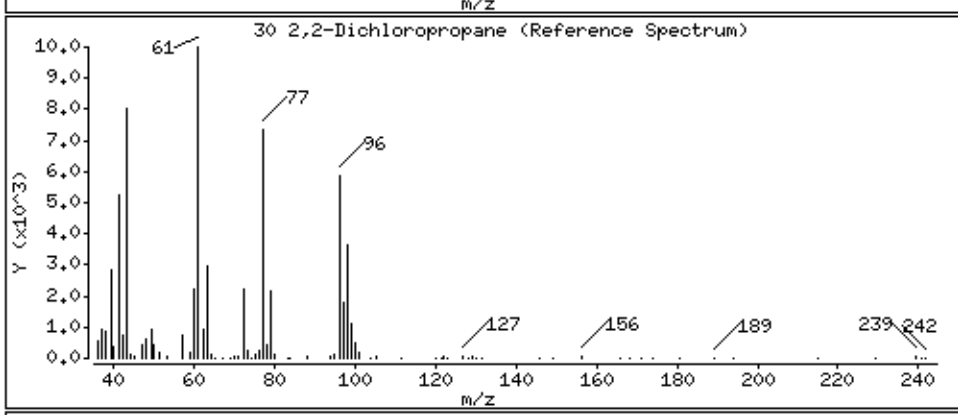
Concentration: 29.7 ppb

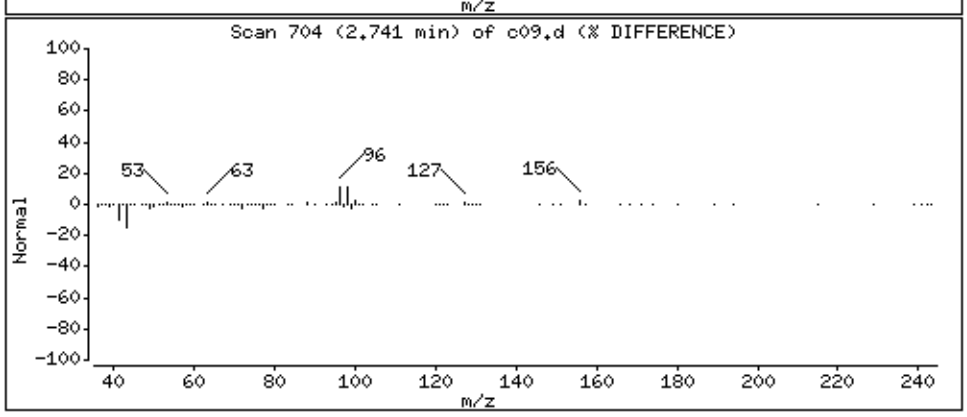












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

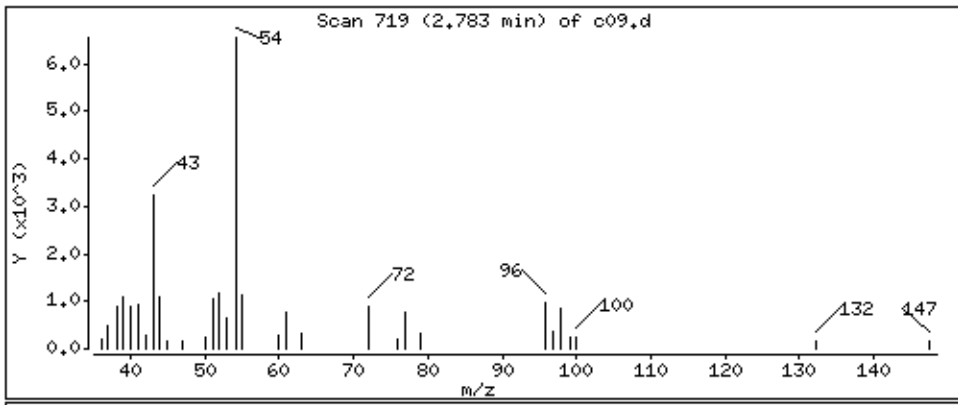
Operator: dae

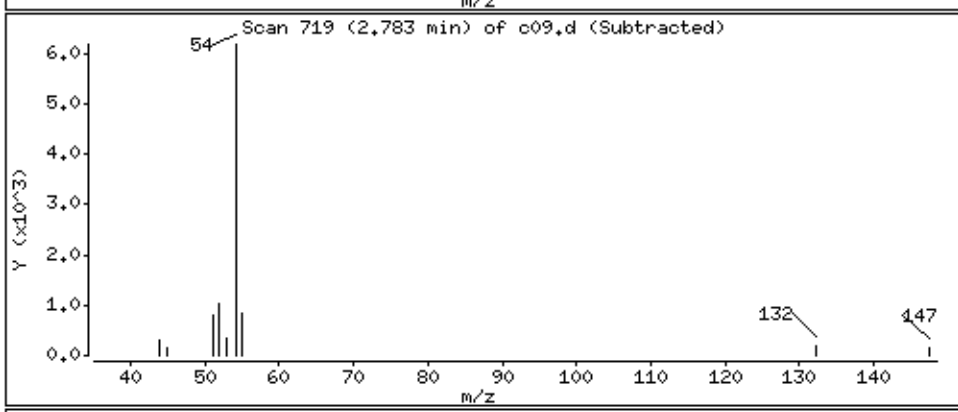
Column phase: DB-624

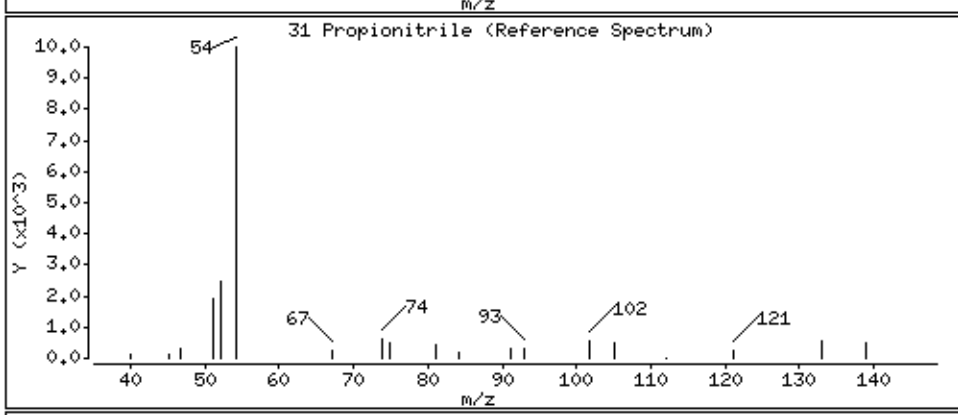
Column diameter: 0.18

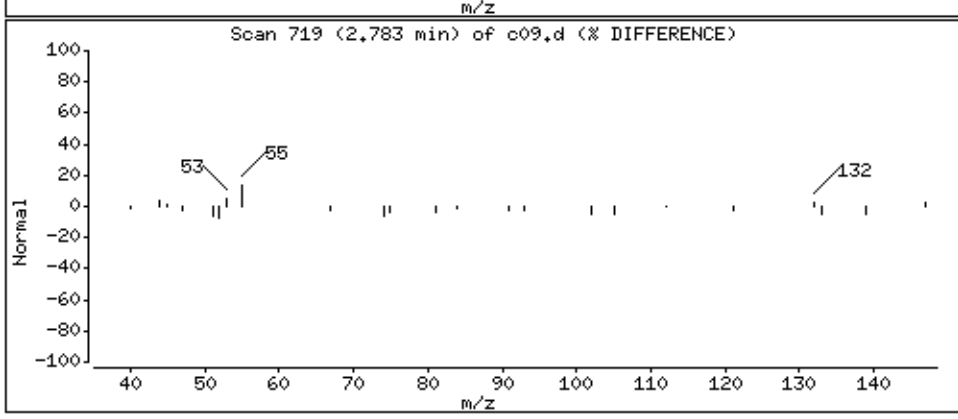
31 Propionitrile

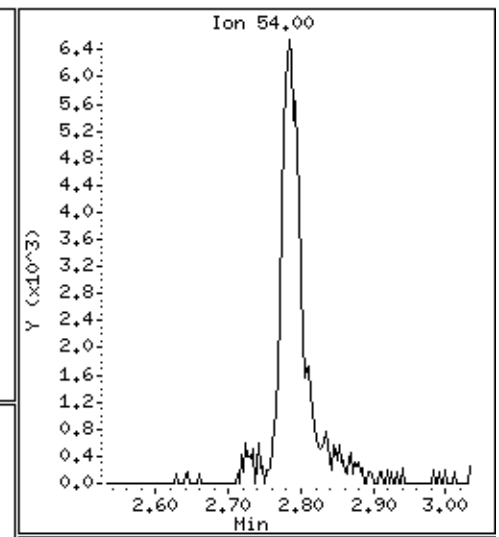
Concentration: 29.2 ppb

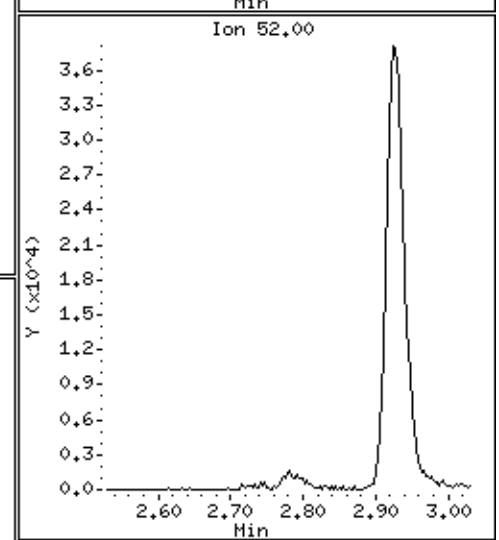


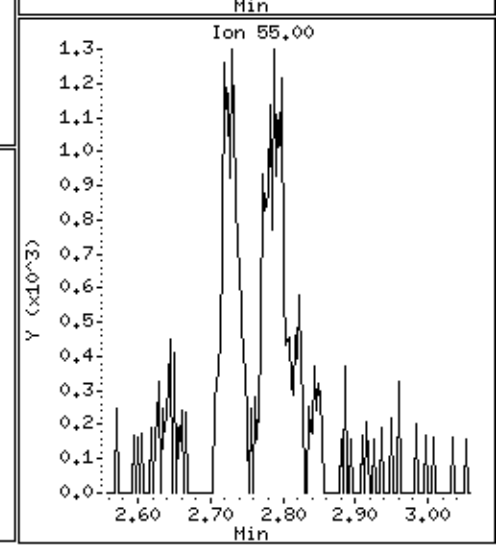












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

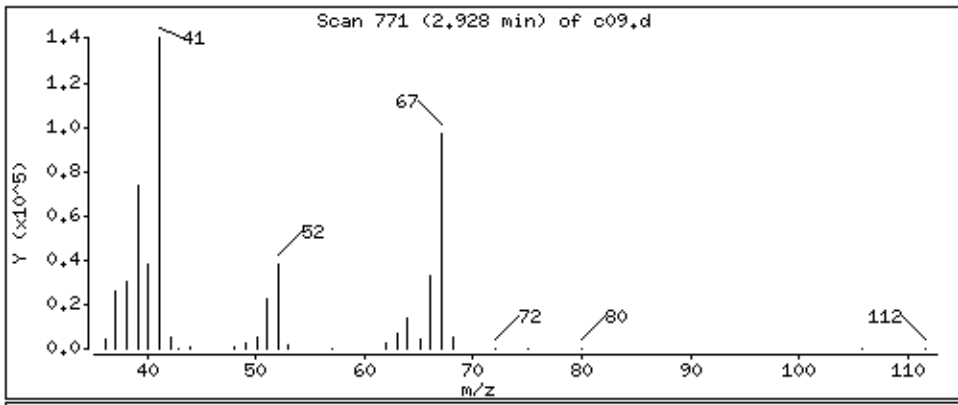
Operator: dae

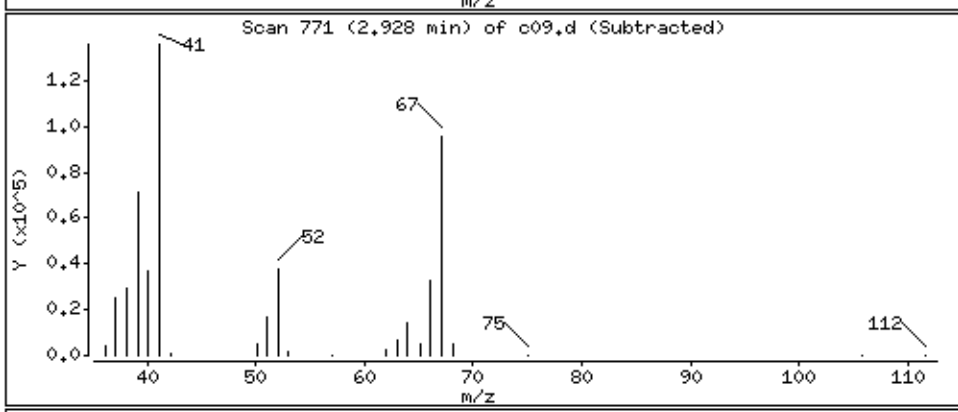
Column phase: DB-624

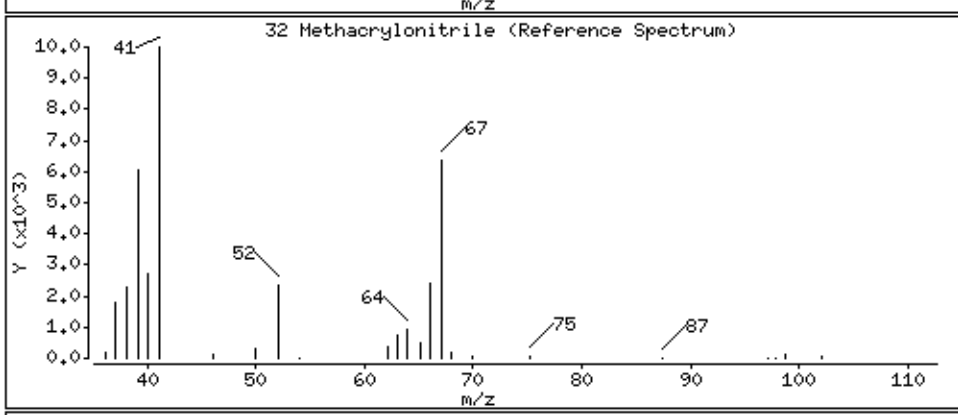
Column diameter: 0.18

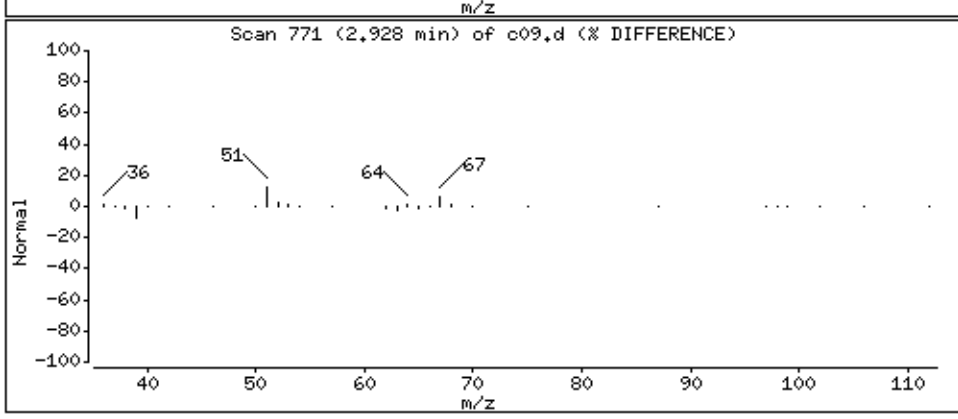
32 Methacrylonitrile

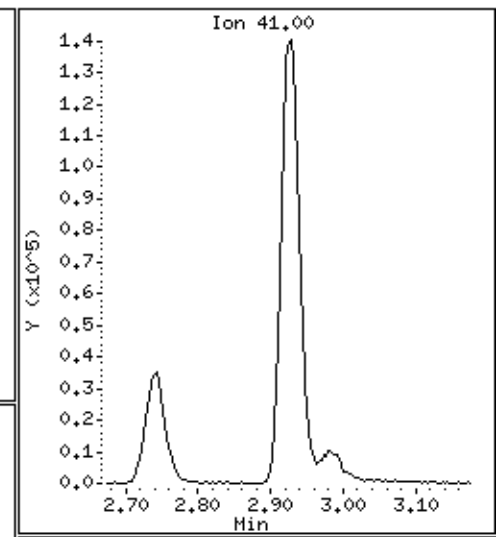
Concentration: 156 ppb

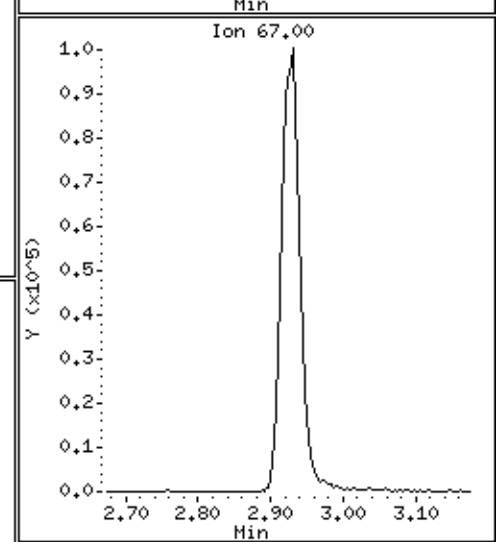


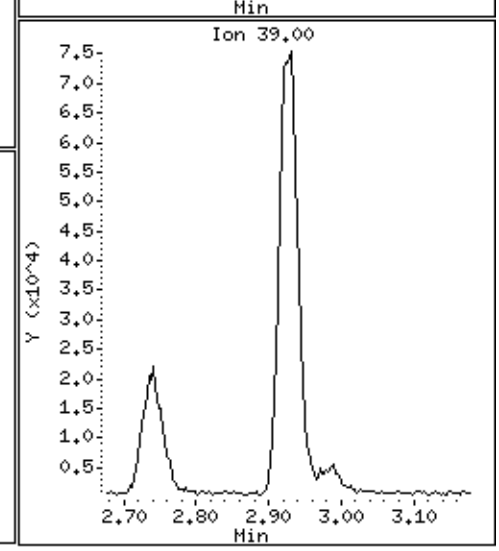












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

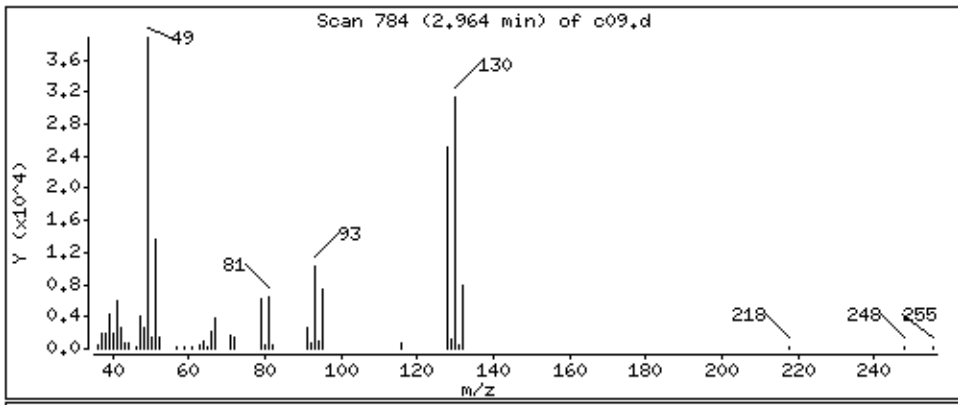
Operator: dae

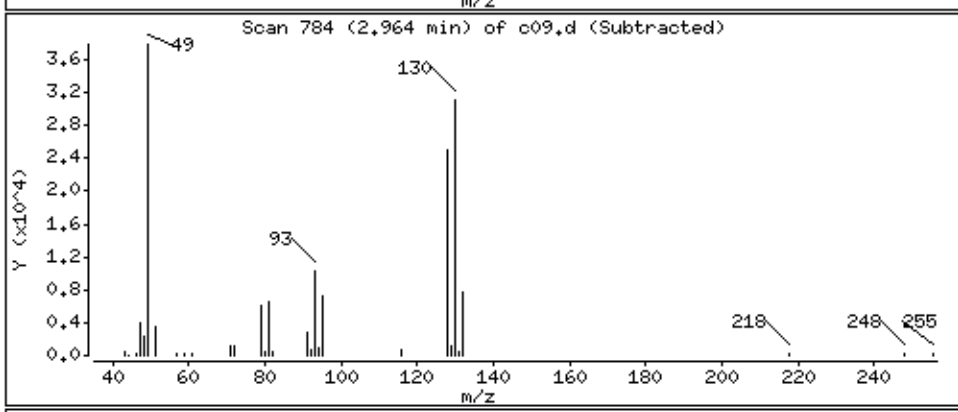
Column phase: DB-624

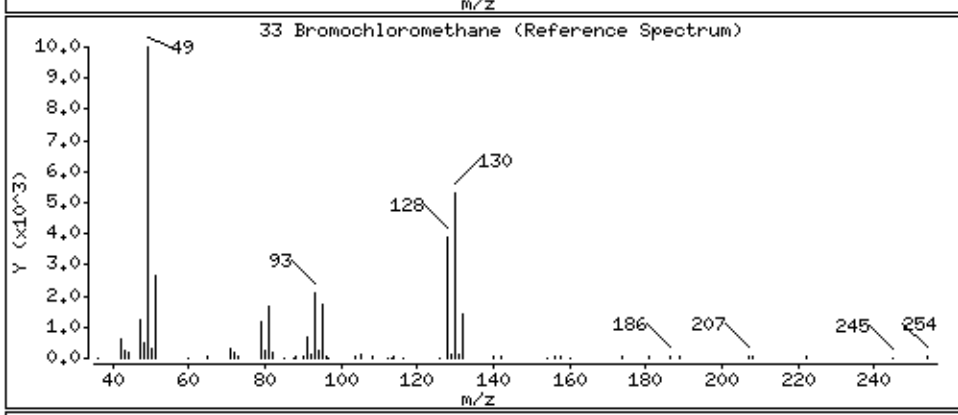
Column diameter: 0.18

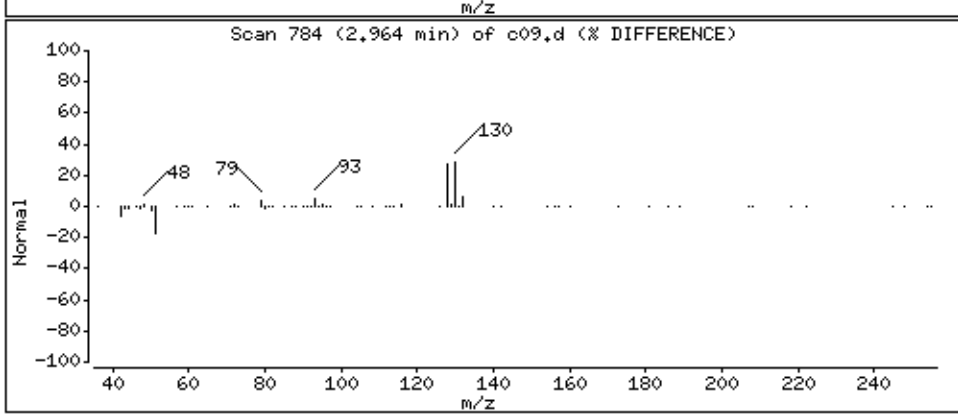
33 Bromochloromethane

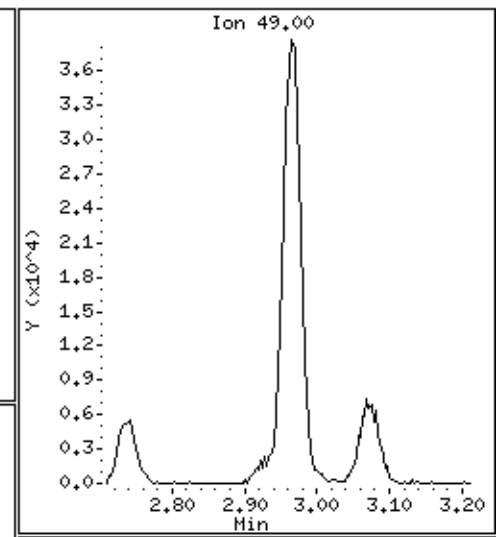
Concentration: 34.7 ppb

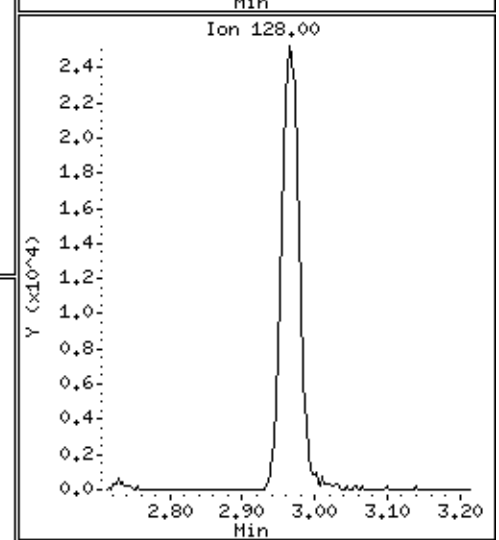


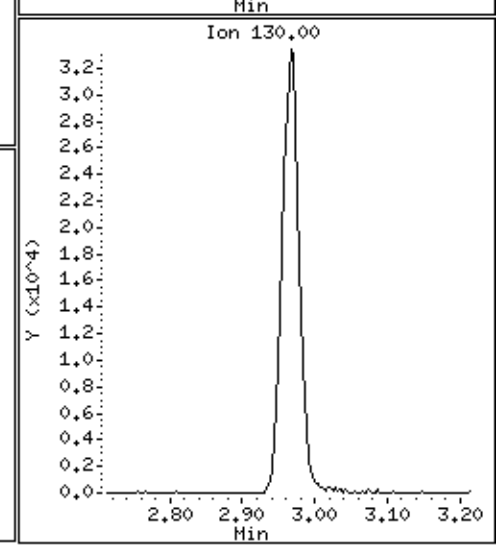












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

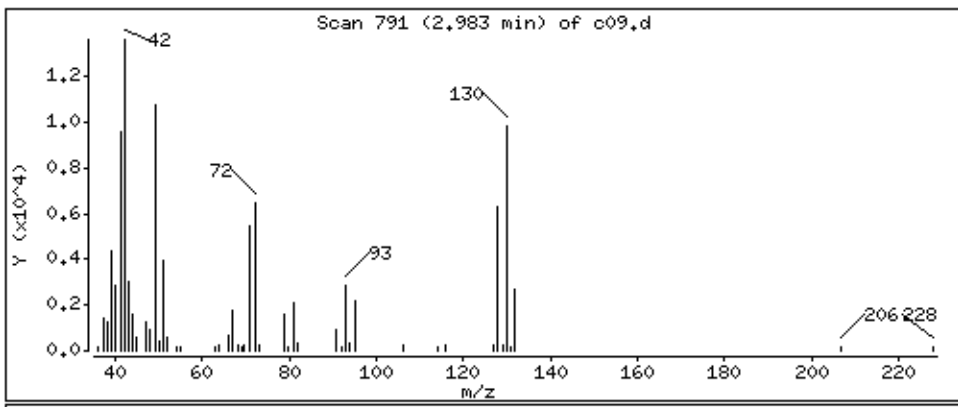
Operator: dae

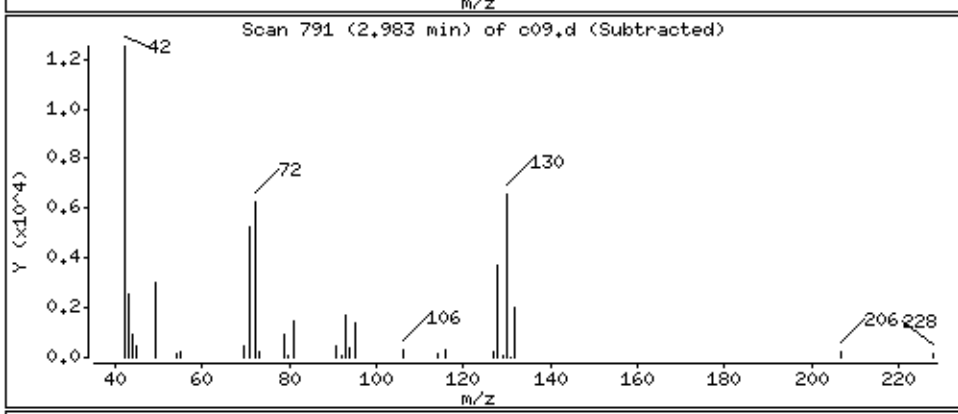
Column phase: DB-624

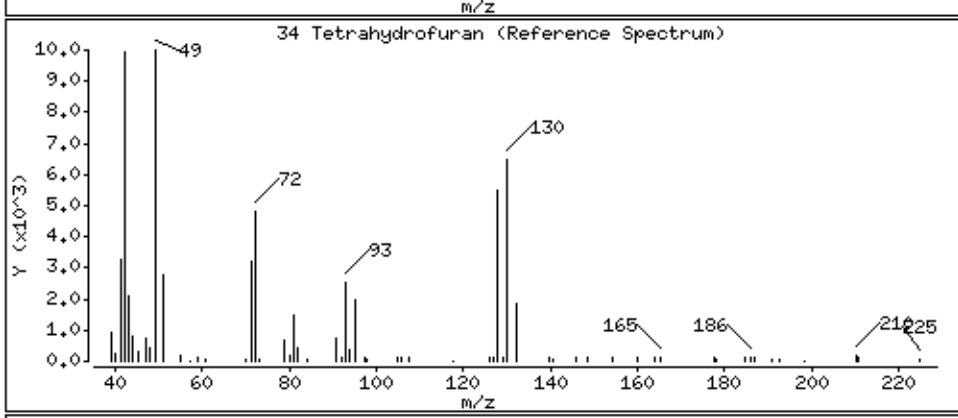
Column diameter: 0.18

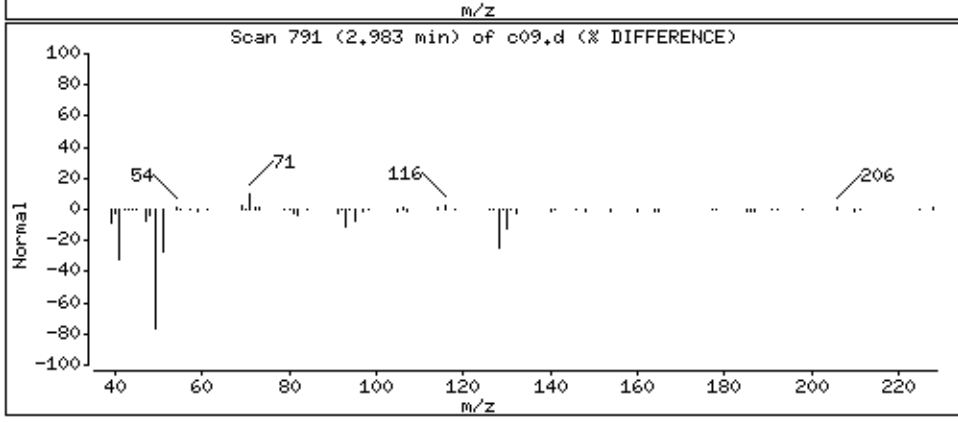
34 Tetrahydrofuran

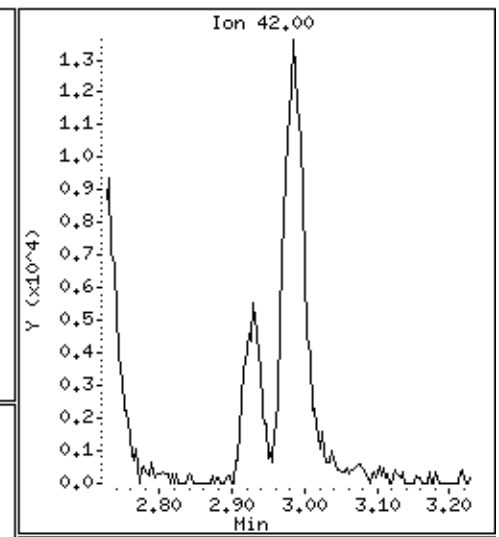
Concentration: 35.0 ppb

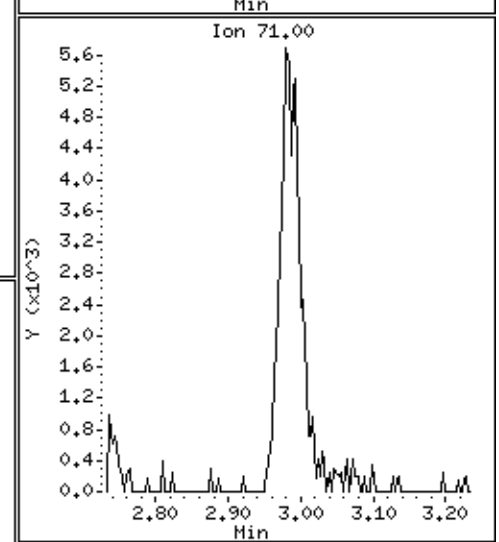


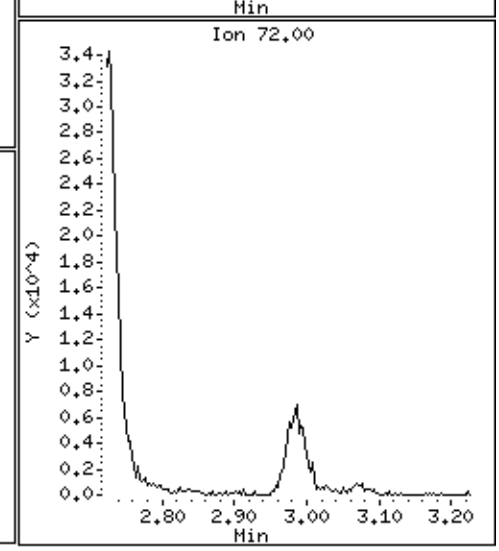












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

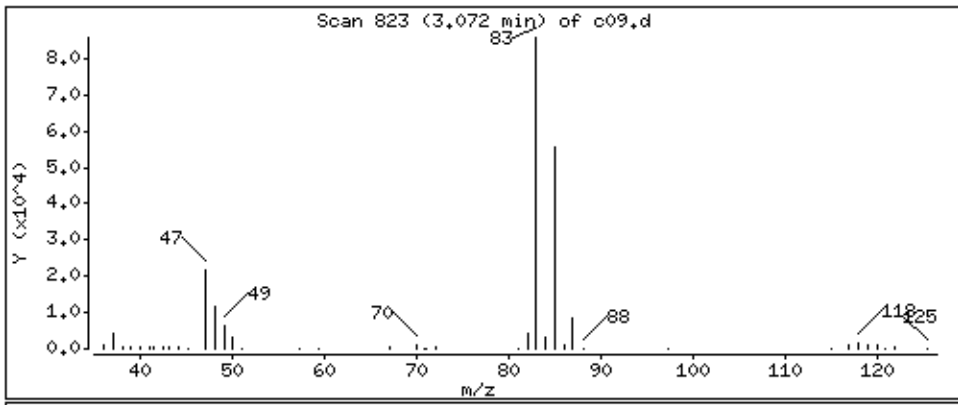
Operator: dae

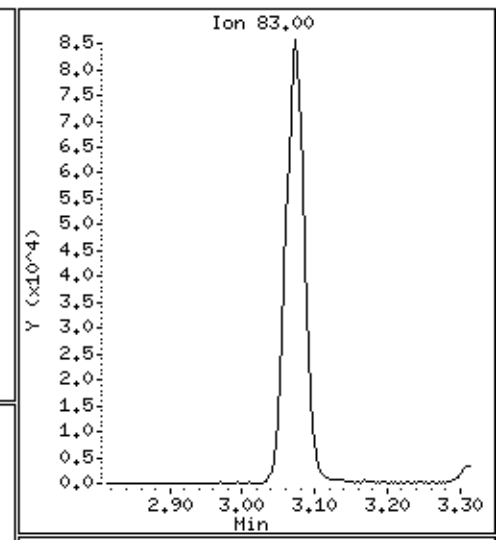
Column phase: DB-624

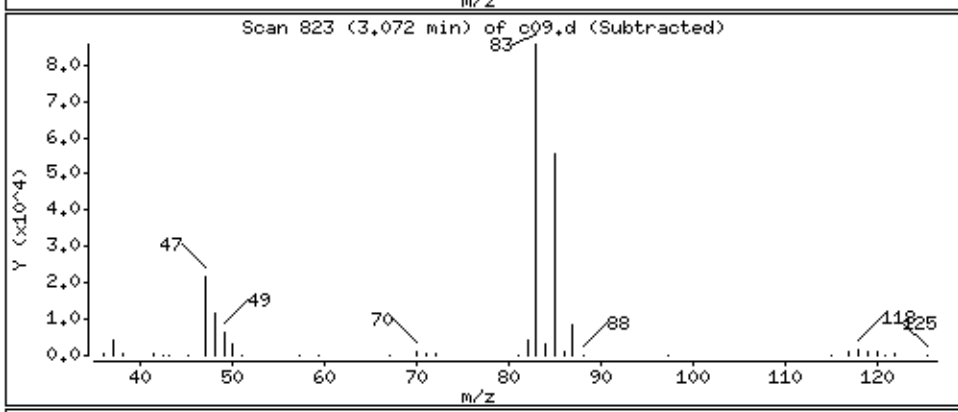
Column diameter: 0.18

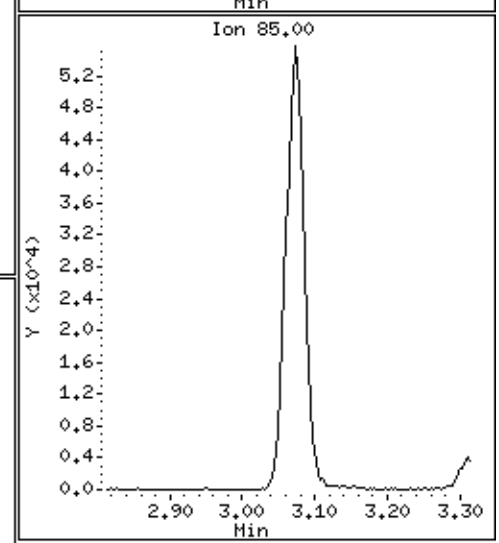
35 Chloroform

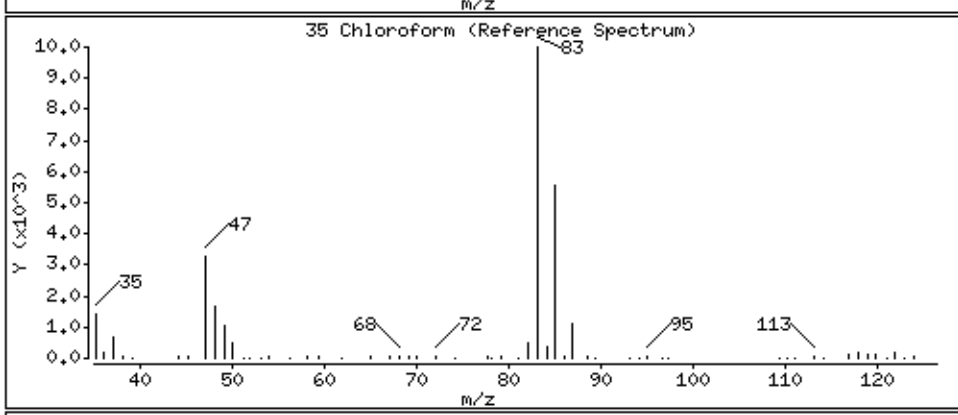
Concentration: 41.1 ppb

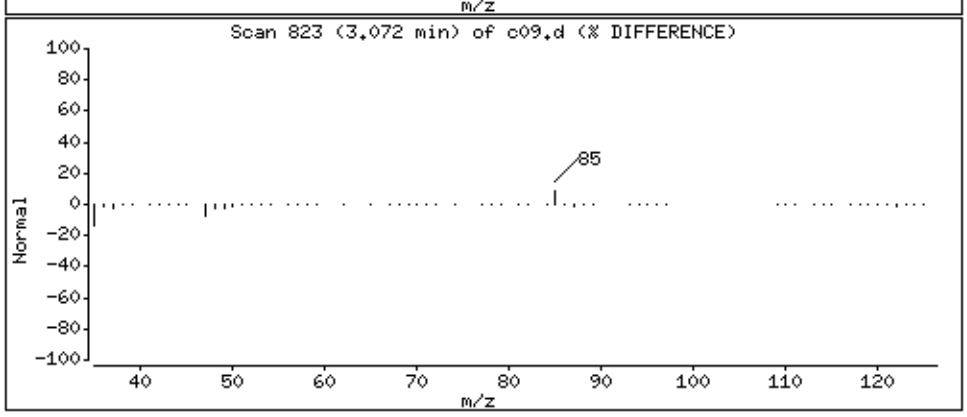












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

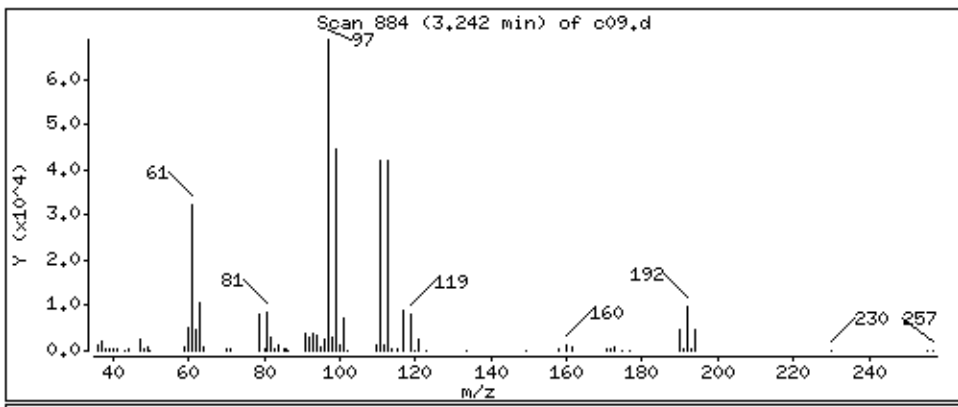
Operator: dae

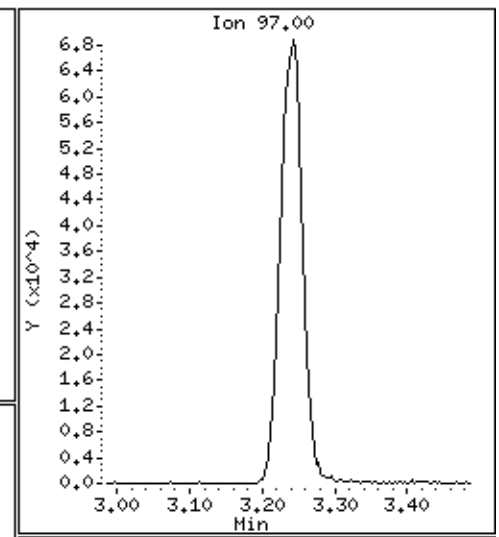
Column phase: DB-624

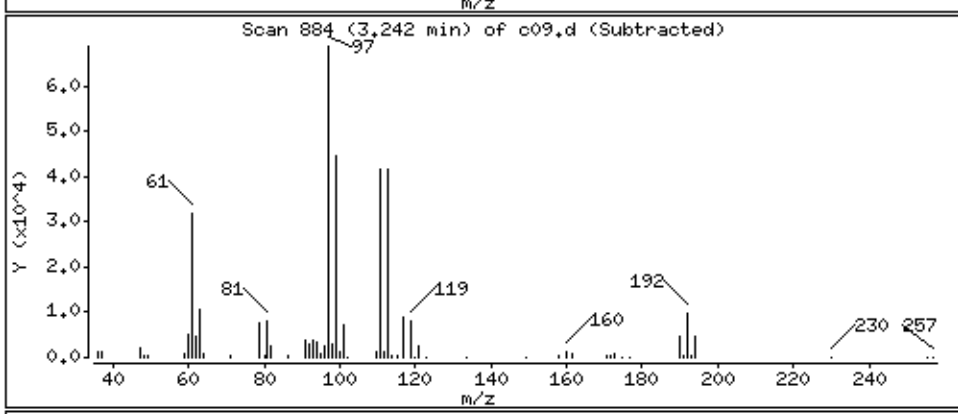
Column diameter: 0.18

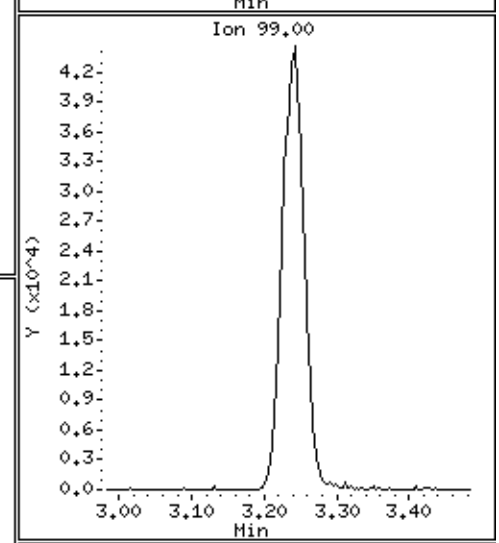
37 1,1,1-Trichloroethane

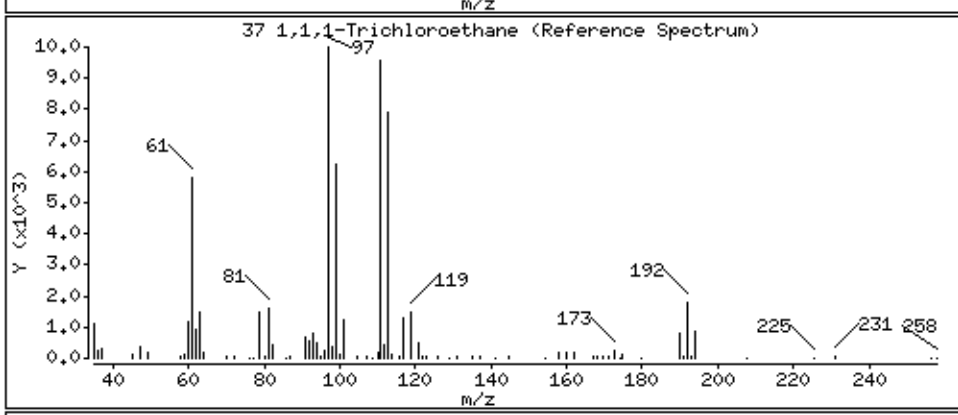
Concentration: 38.9 ppb

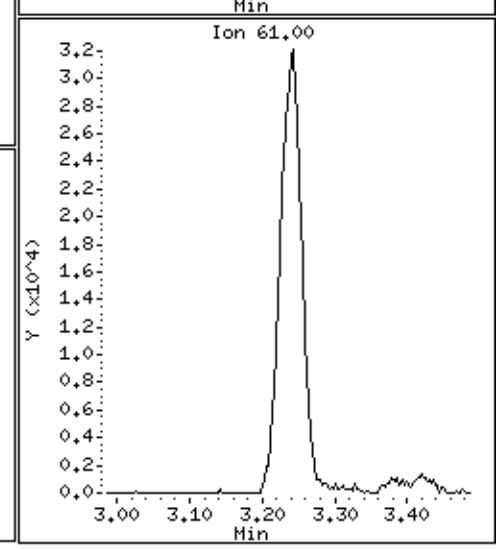


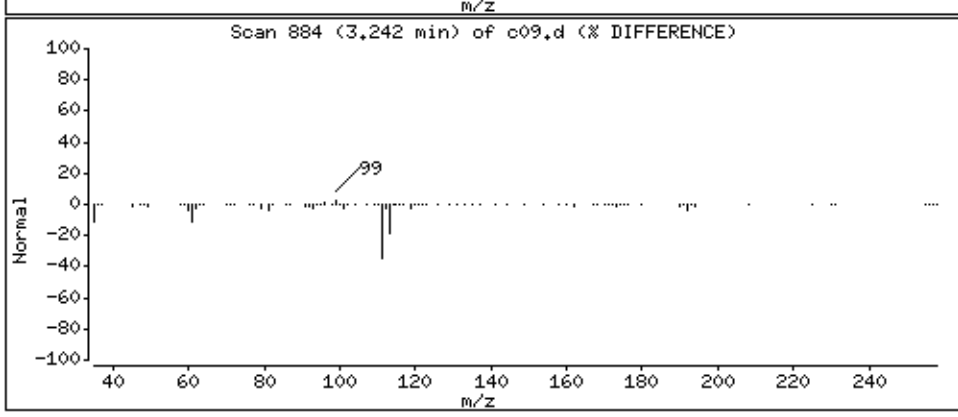












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

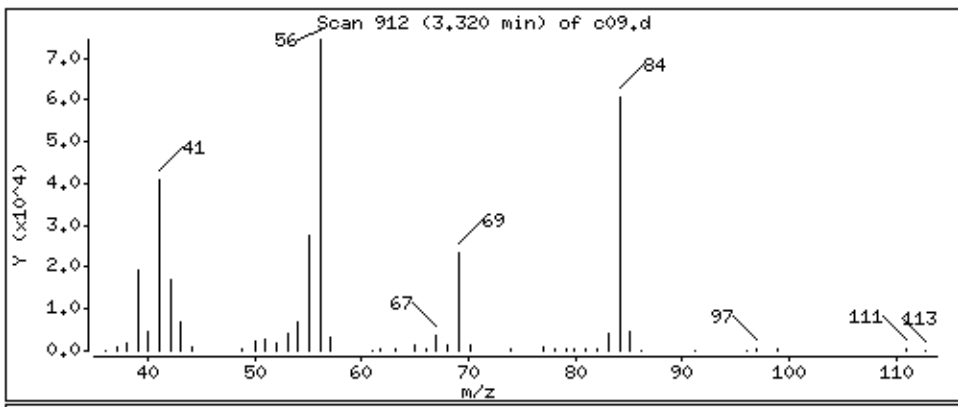
Operator: dae

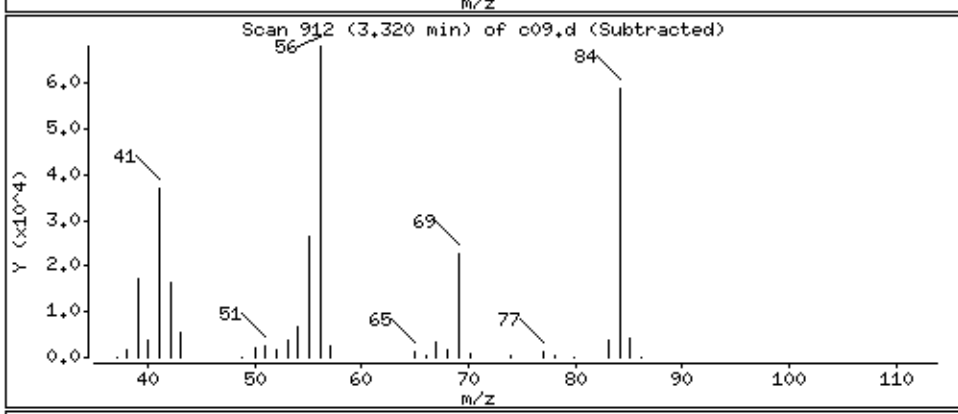
Column phase: DB-624

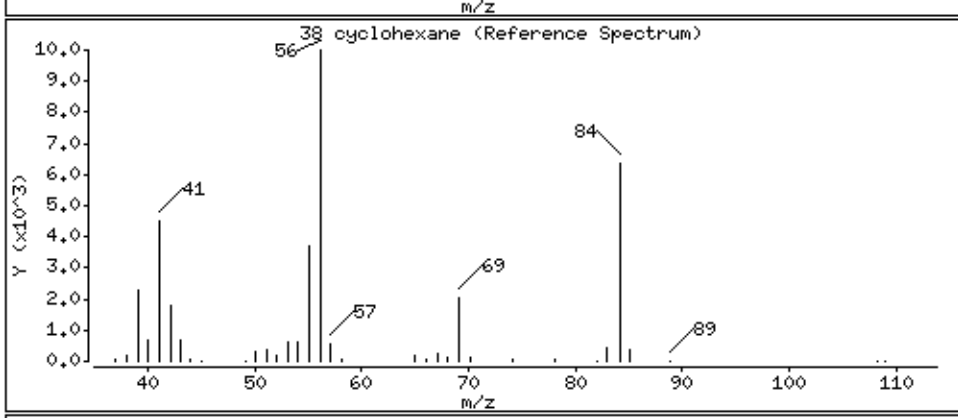
Column diameter: 0.18

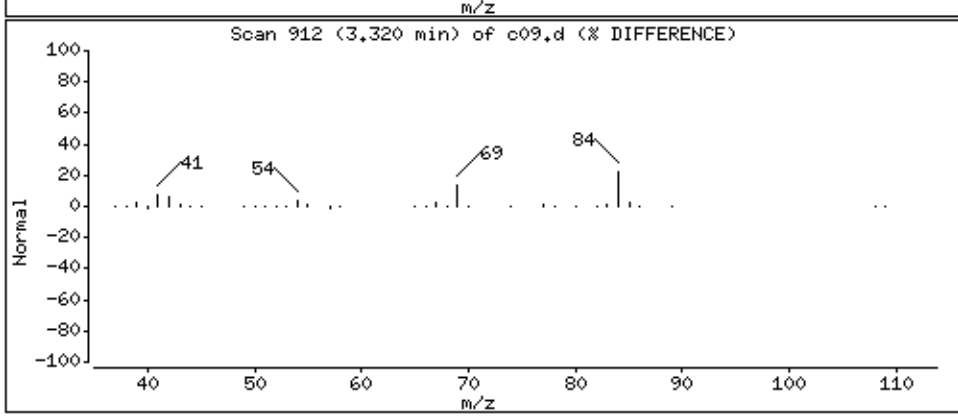
38 cyclohexane

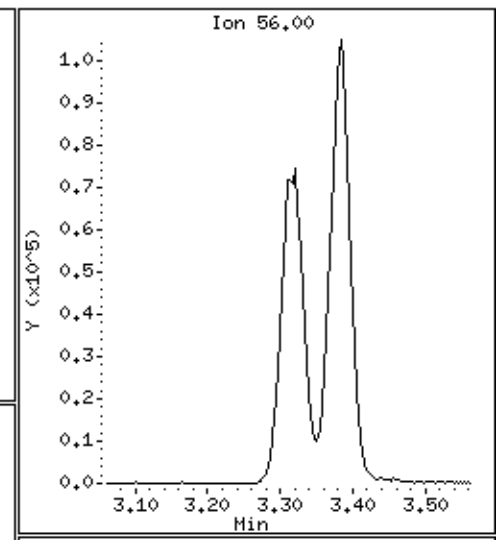
Concentration: 41.0 ppb

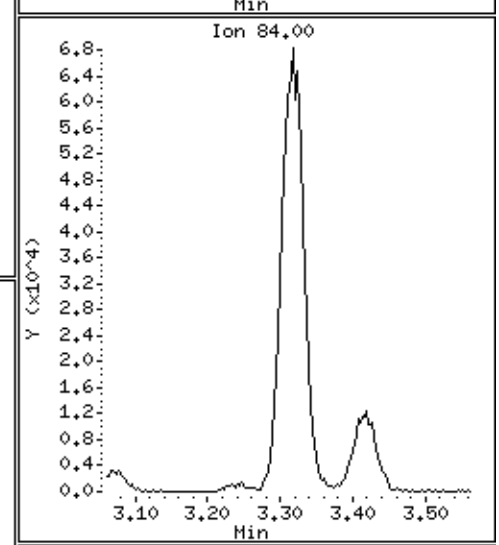


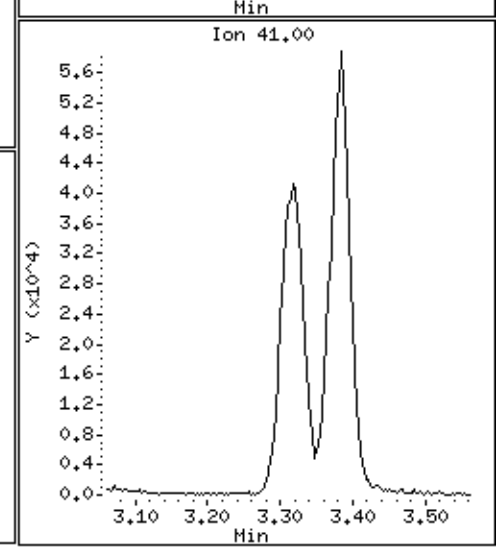












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

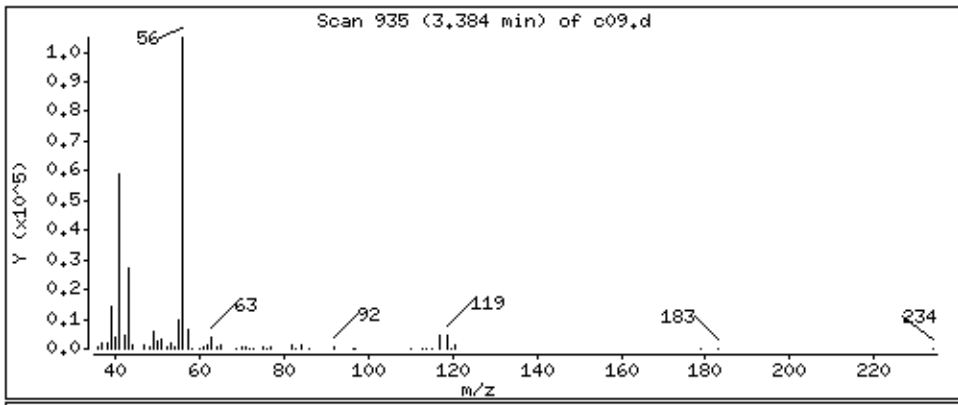
Operator: dae

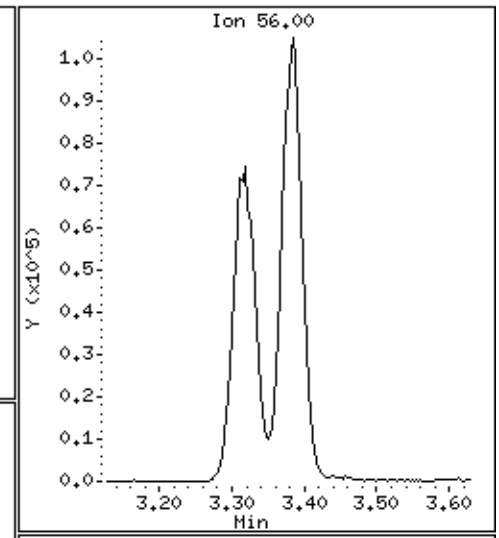
Column phase: DB-624

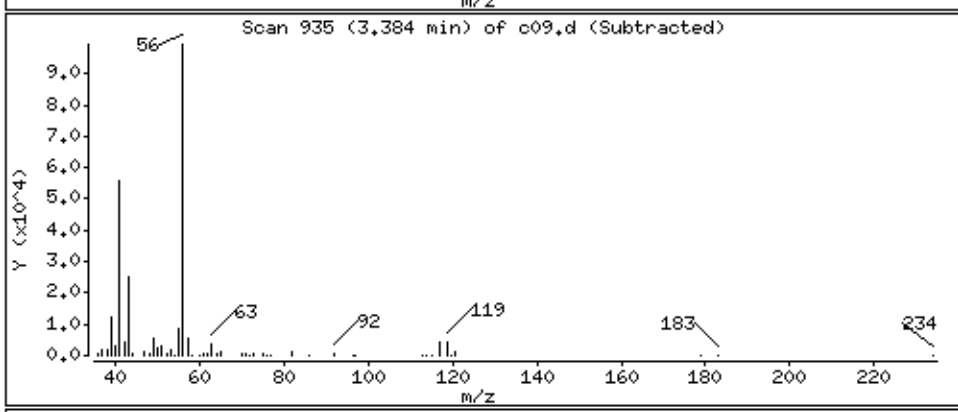
Column diameter: 0.18

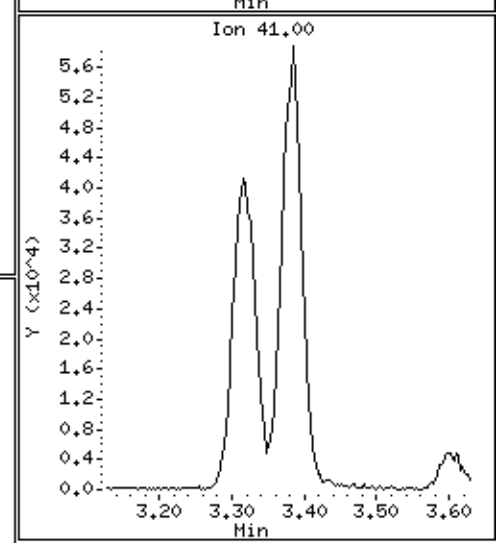
150 n-butyl chloride

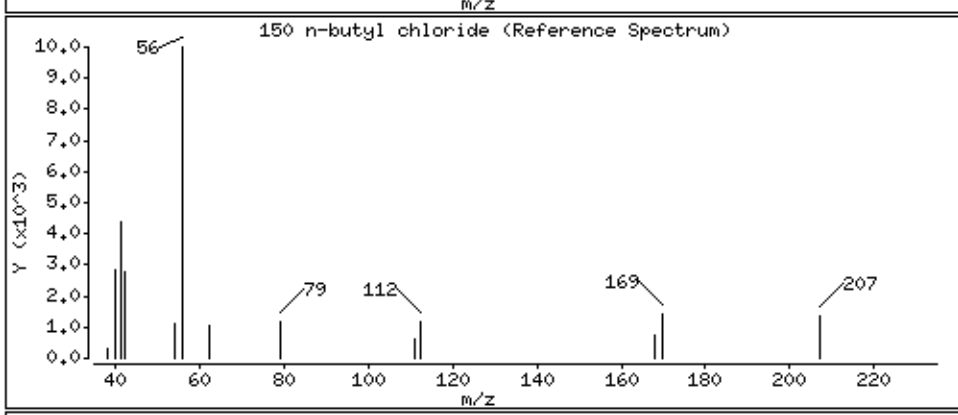
Concentration: 42.0 ppb

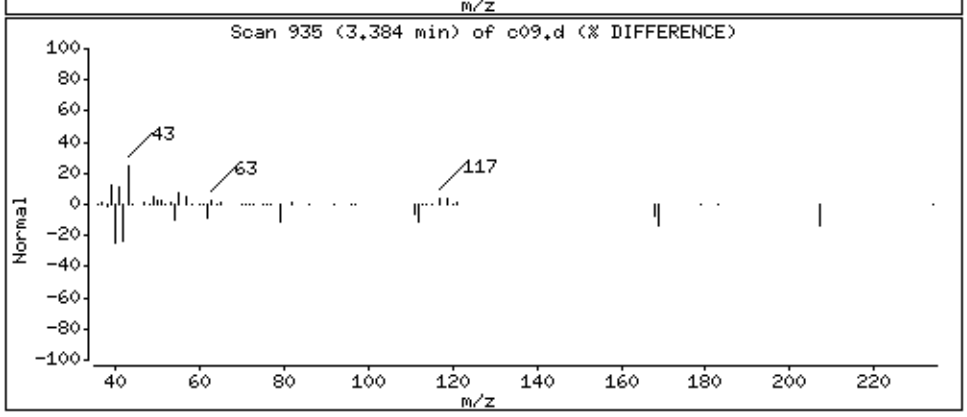












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

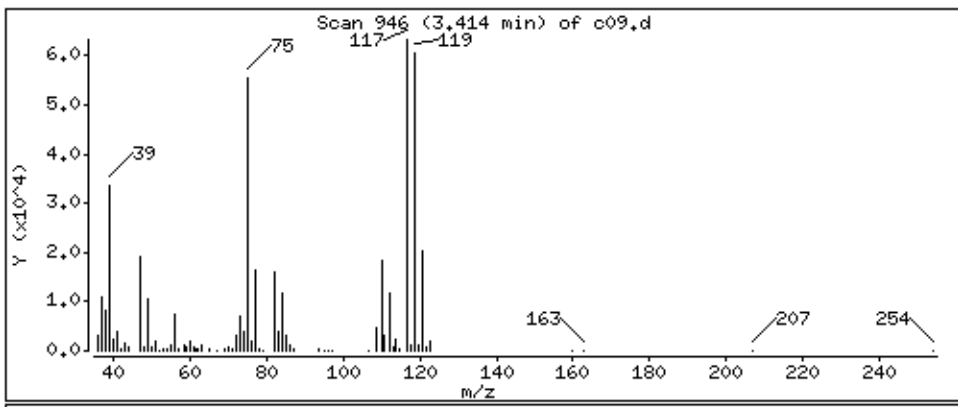
Operator: dae

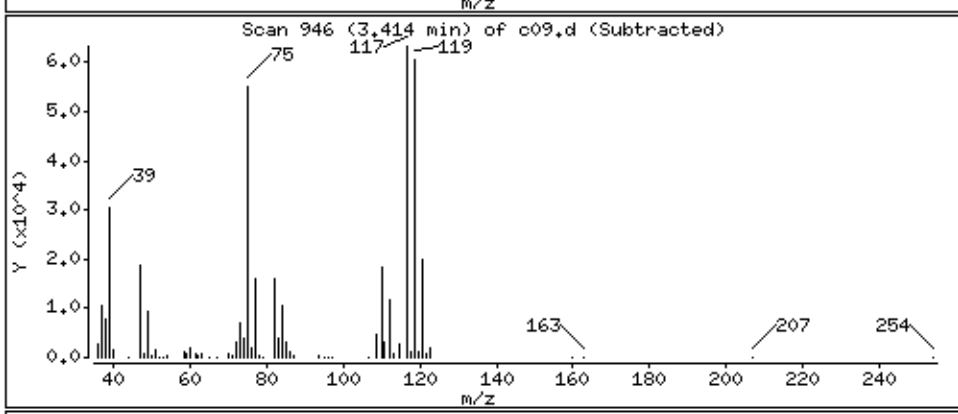
Column phase: DB-624

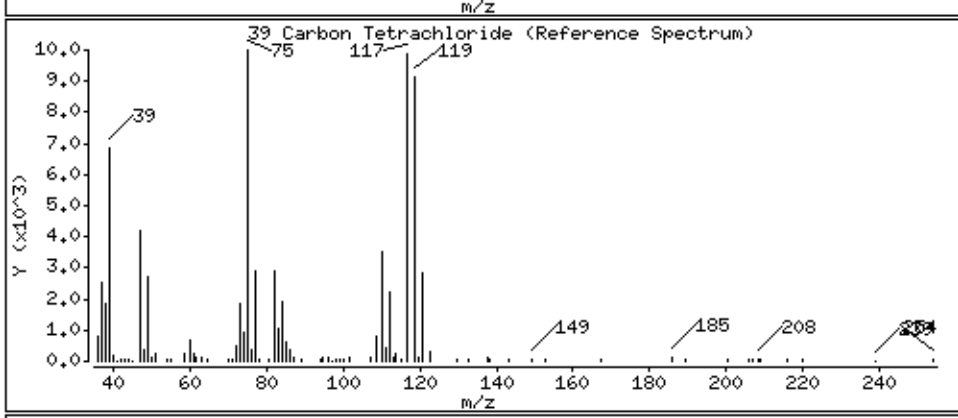
Column diameter: 0.18

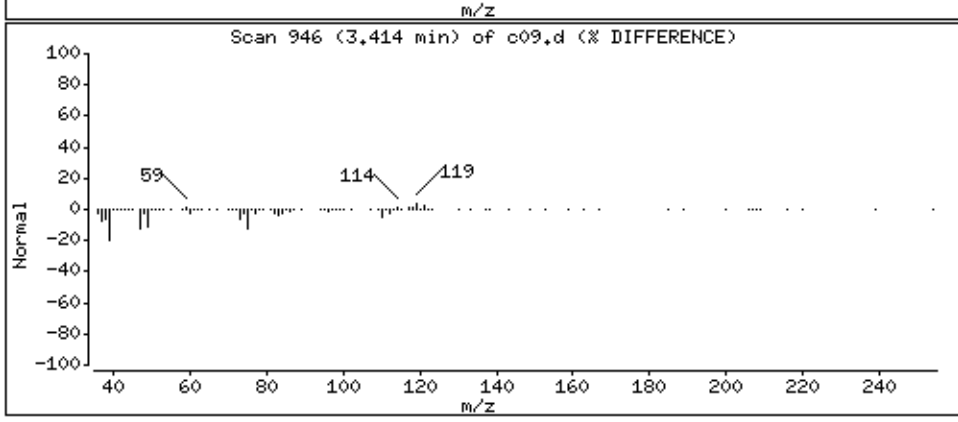
39 Carbon Tetrachloride

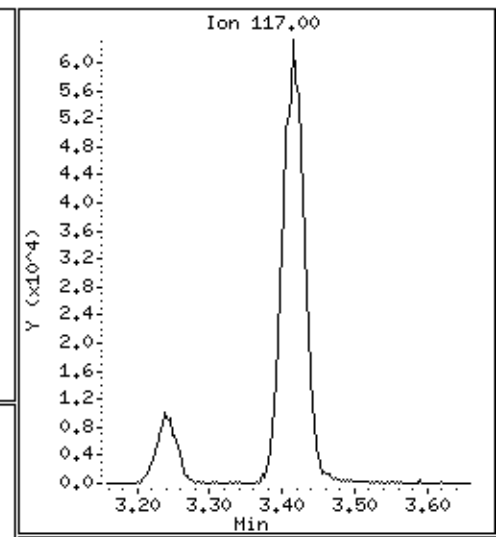
Concentration: 40.8 ppb

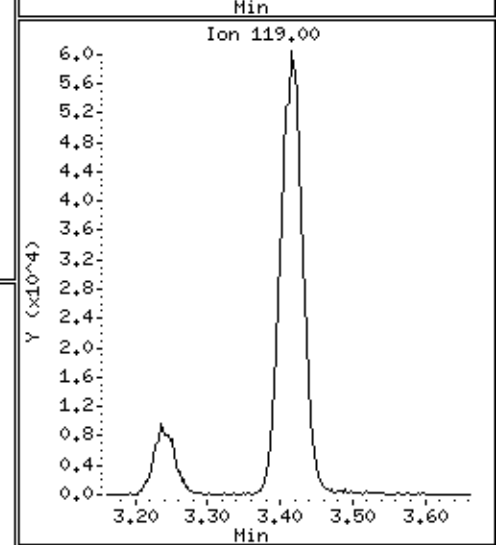


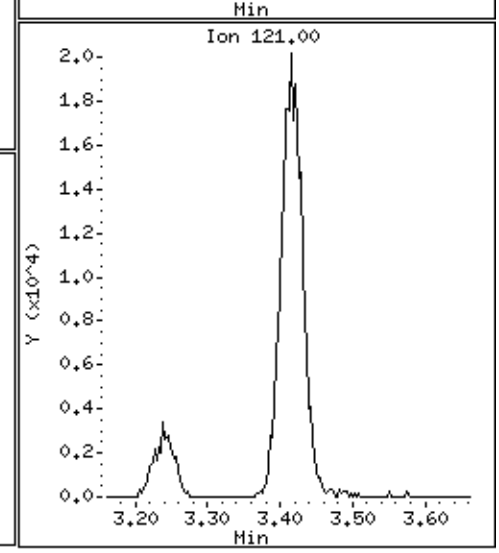












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

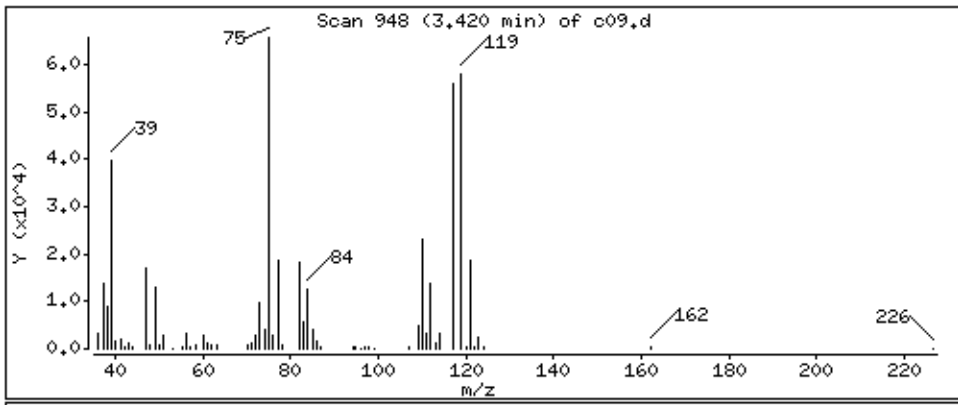
Operator: dae

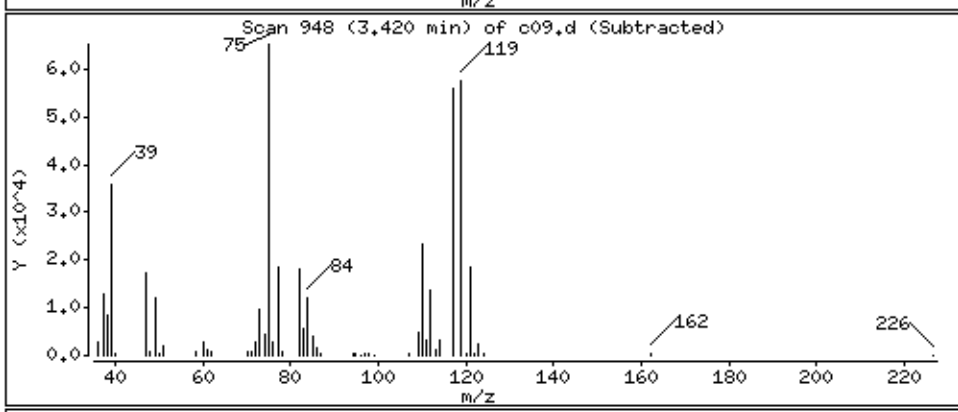
Column phase: DB-624

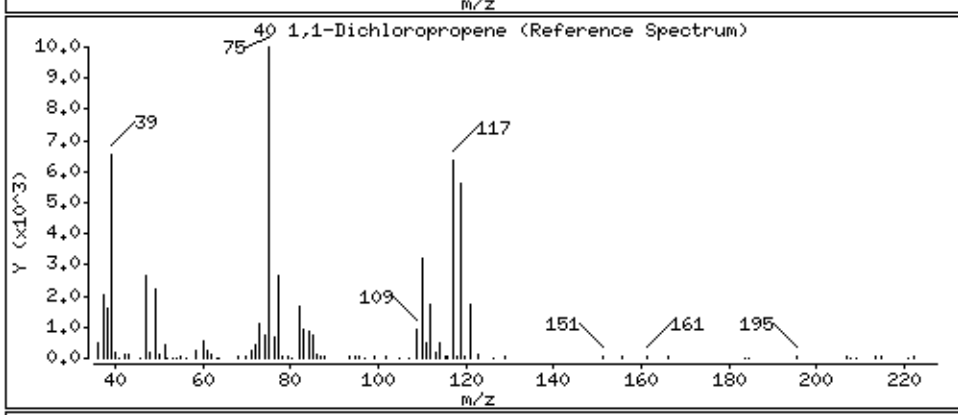
Column diameter: 0.18

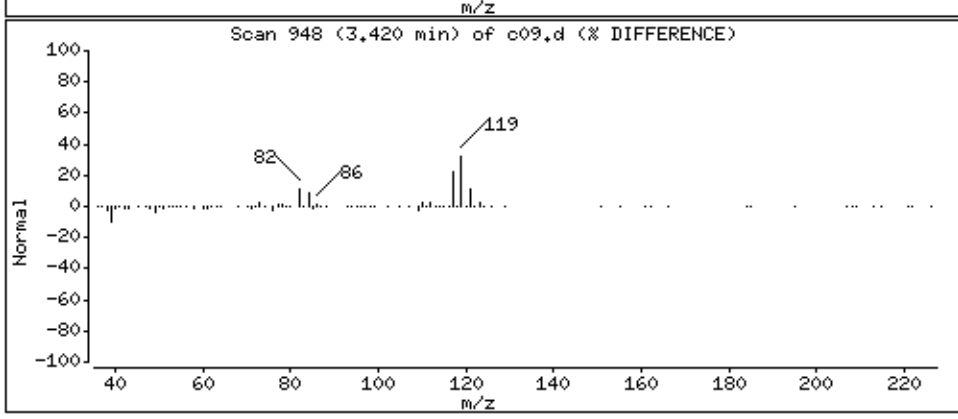
40 1,1-Dichloropropene

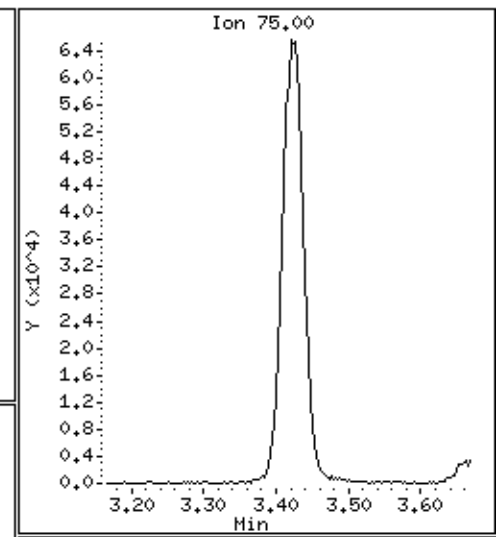
Concentration: 41.8 ppb

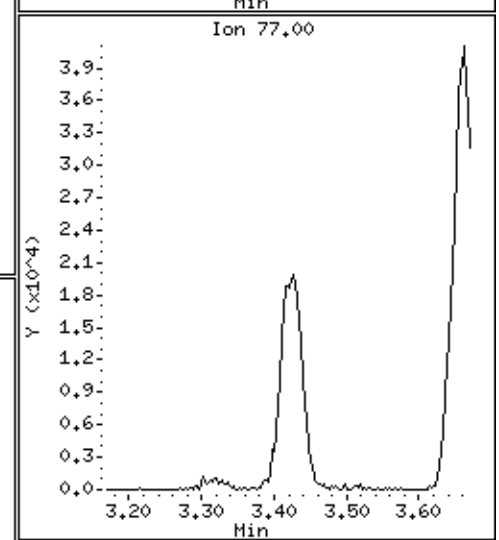


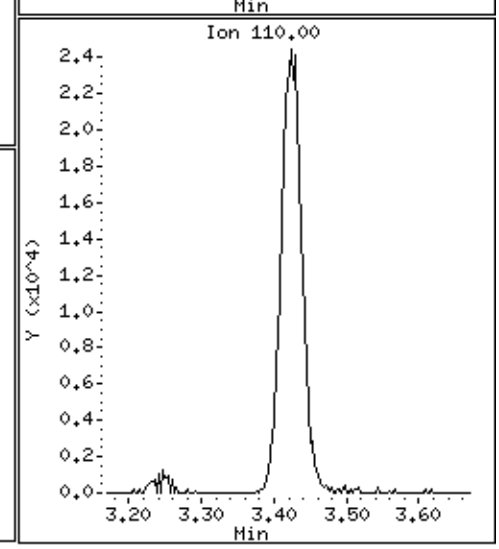












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

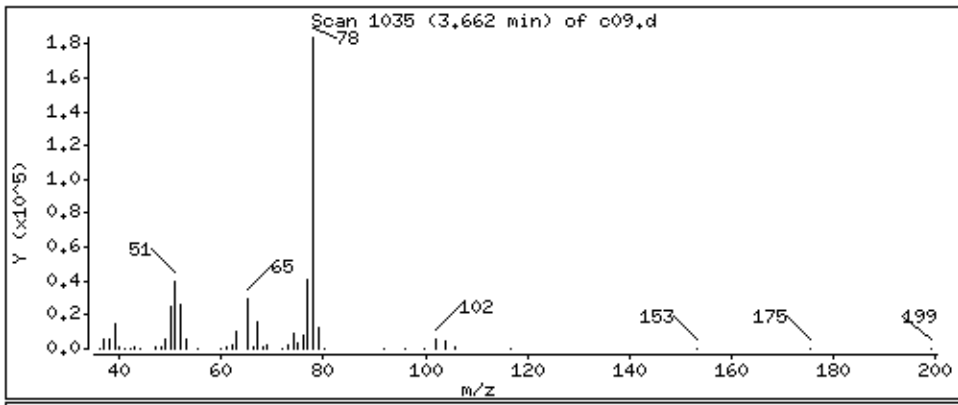
Operator: dae

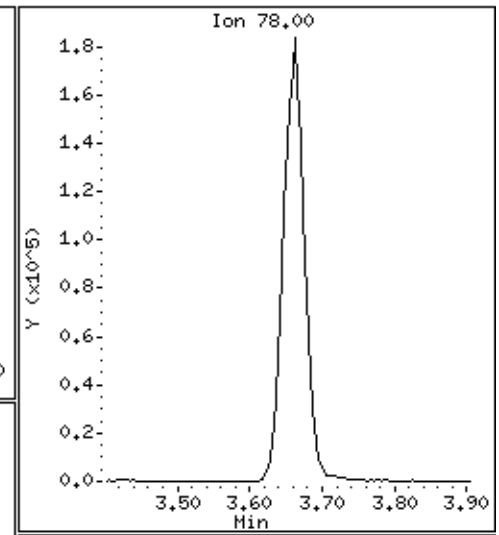
Column phase: DB-624

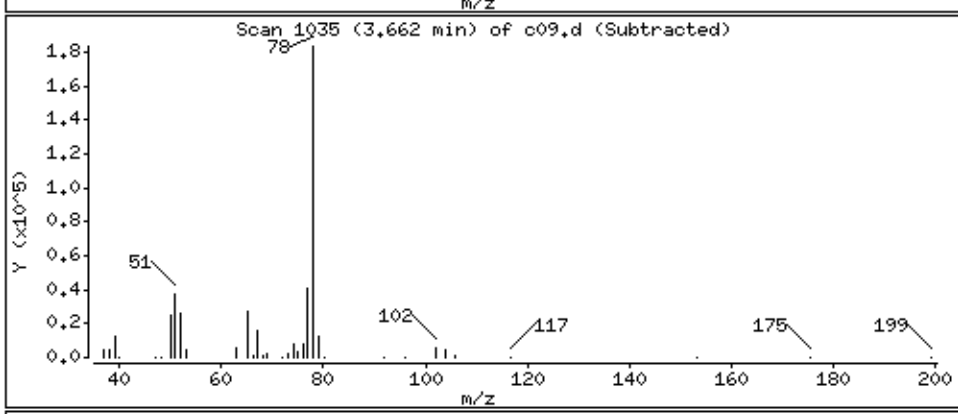
Column diameter: 0.18

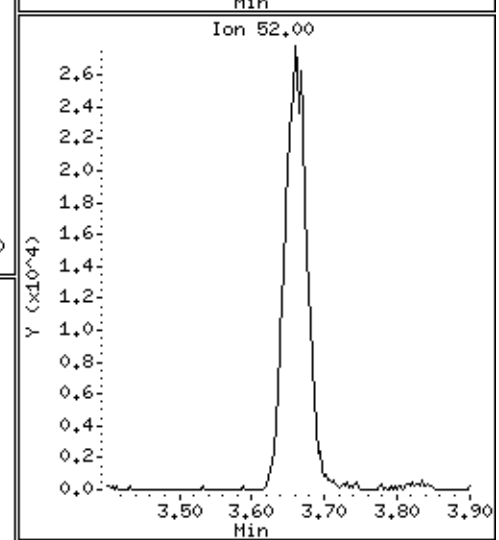
41 Benzene

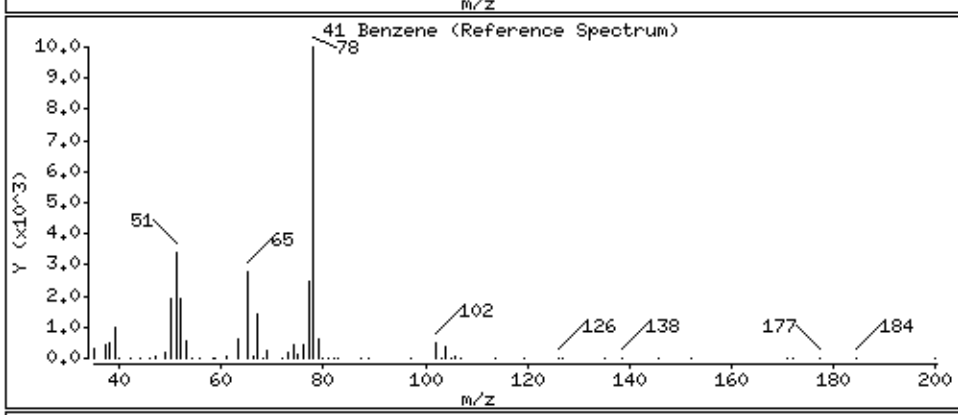
Concentration: 40.4 ppb

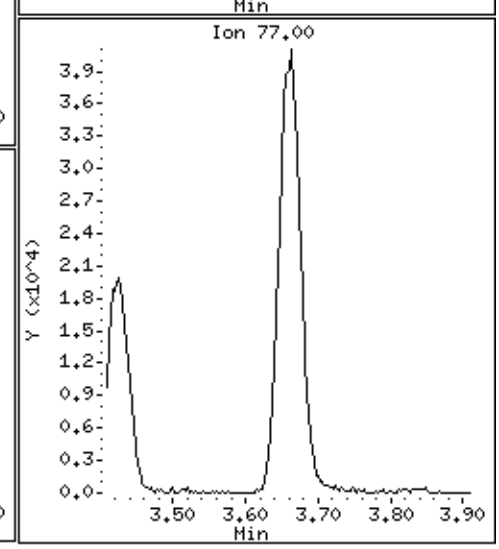


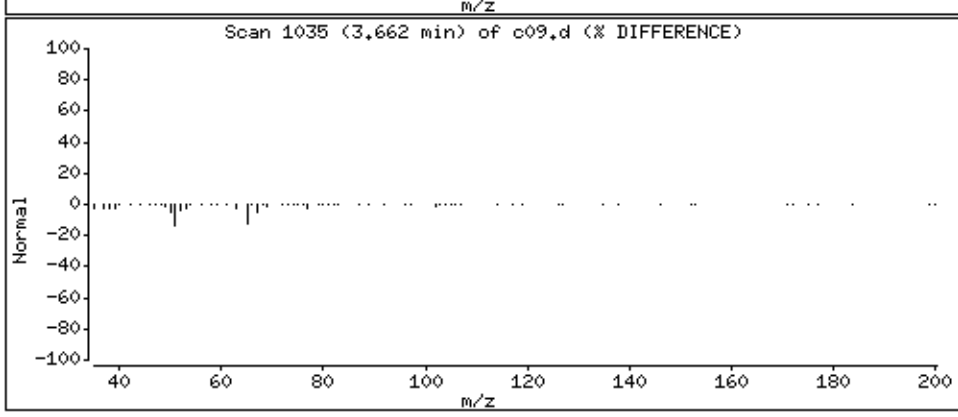












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

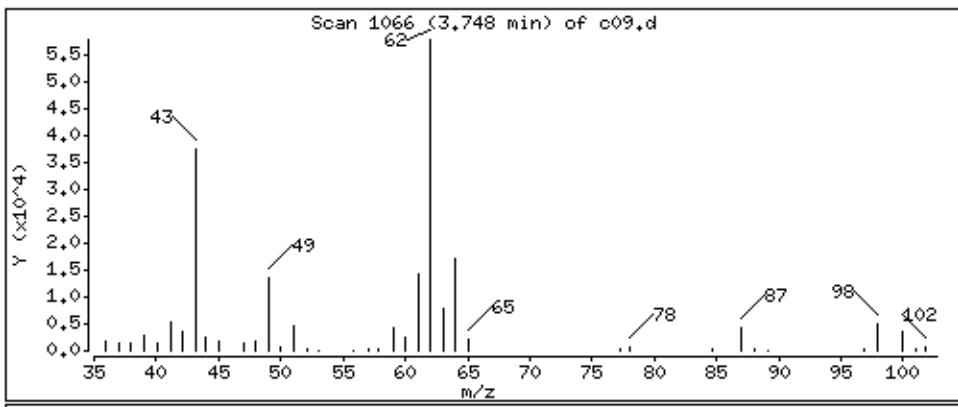
Operator: dae

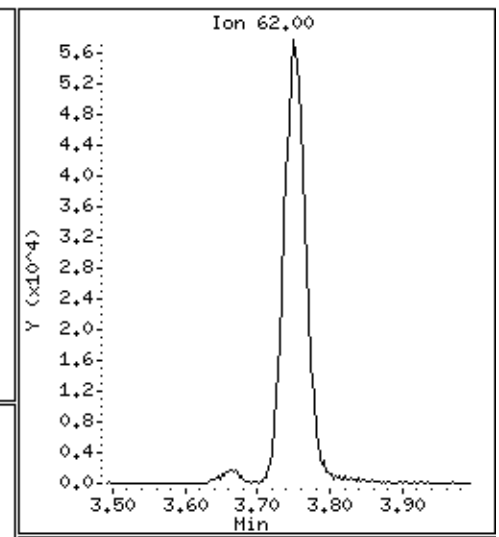
Column phase: DB-624

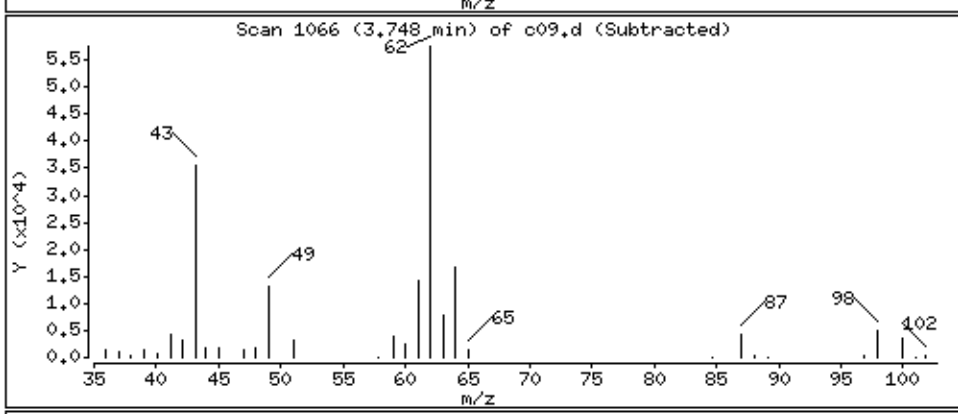
Column diameter: 0.18

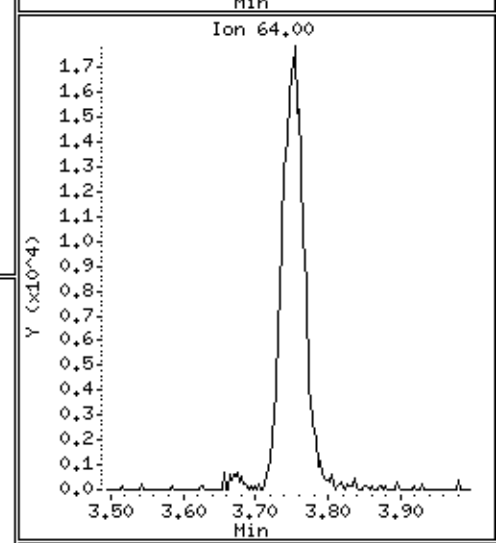
42 1,2-Dichloroethane

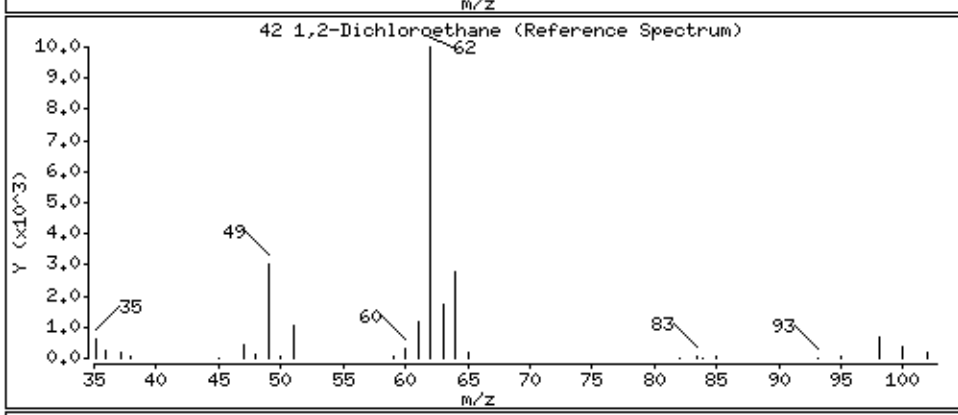
Concentration: 39.7 ppb

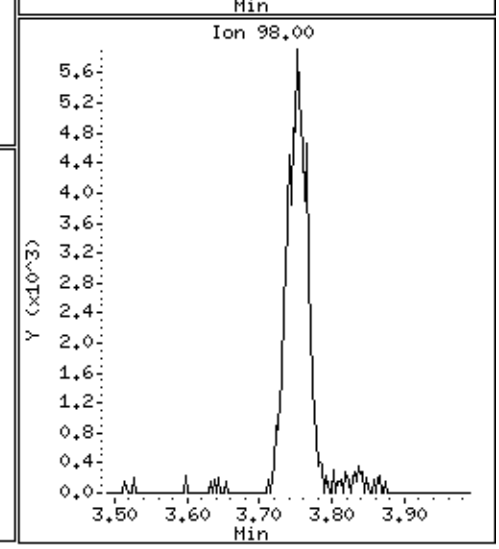


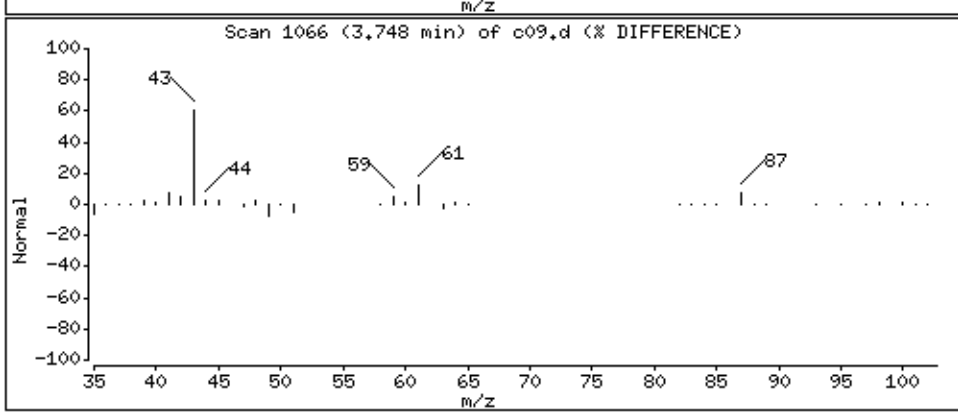












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

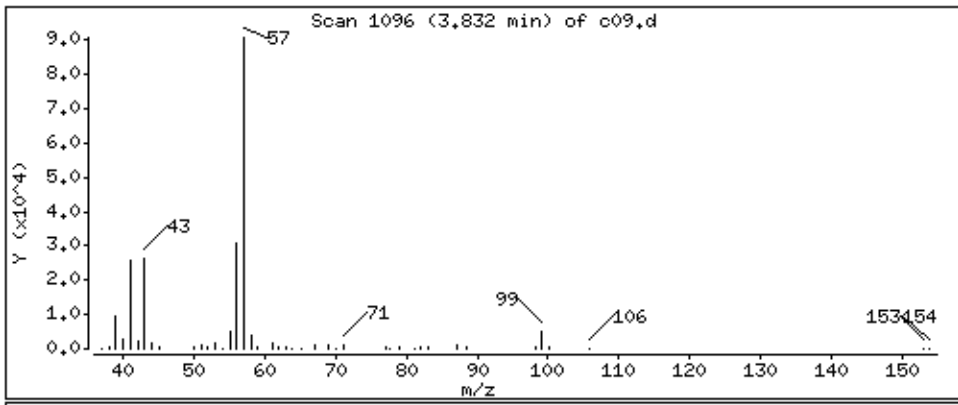
Operator: dae

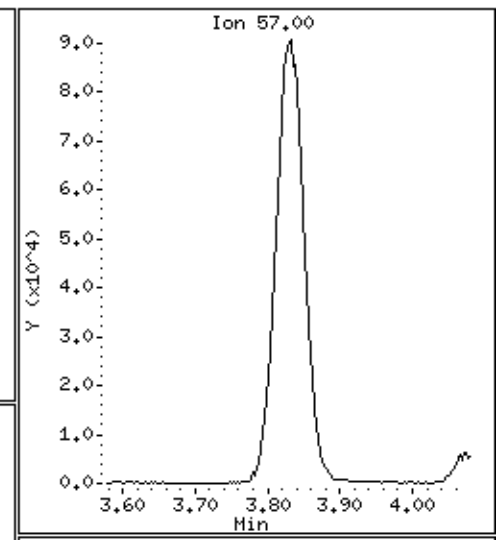
Column phase: DB-624

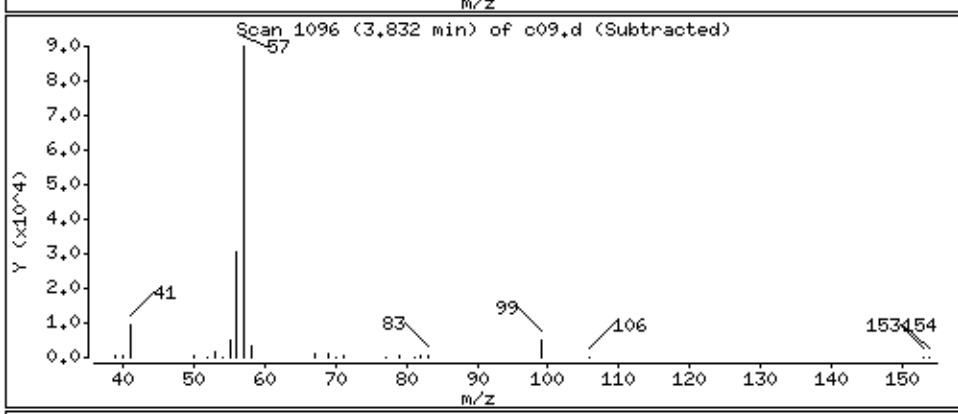
Column diameter: 0.18

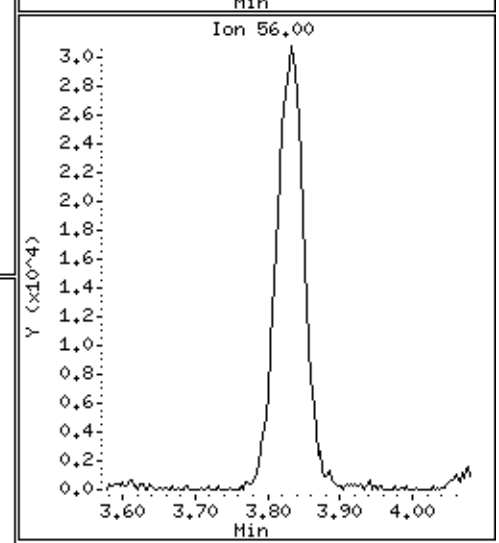
43 2,2,4-Trimethylpentane

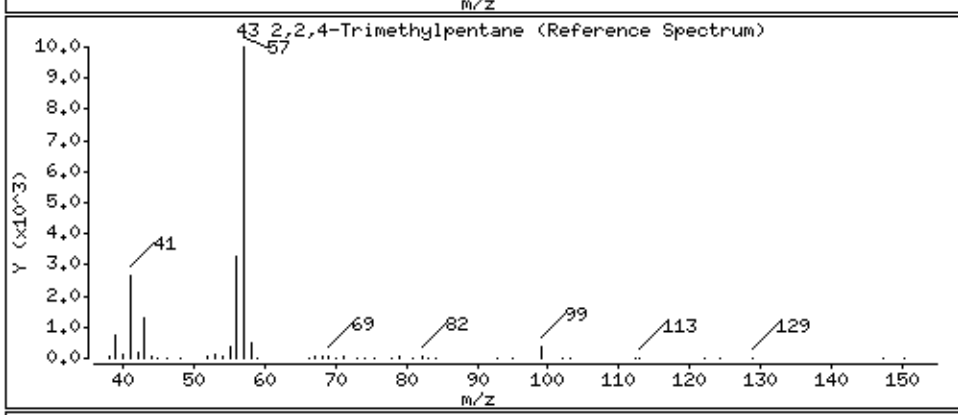
Concentration: 42.3 ppb

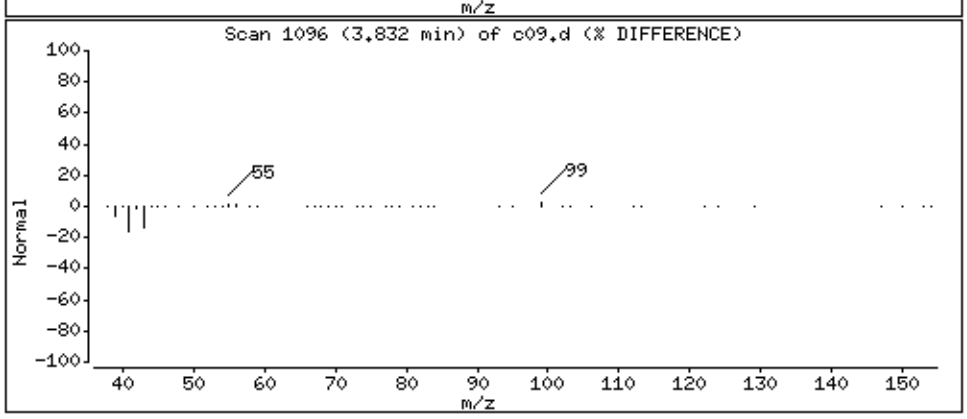












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

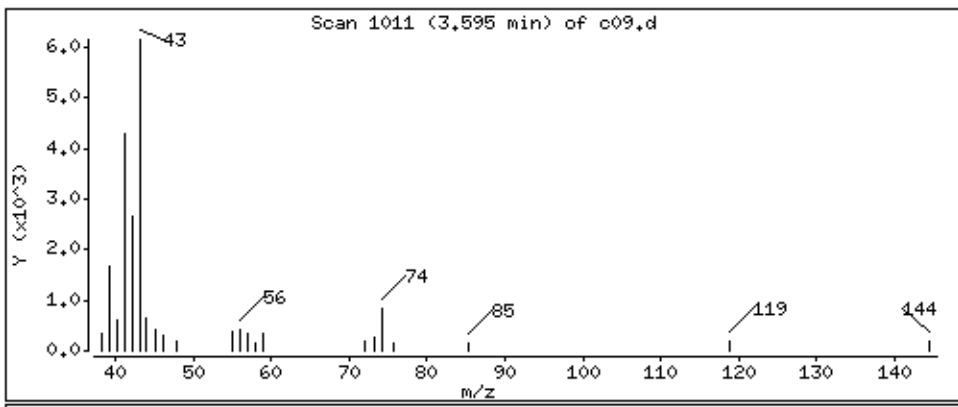
Operator: dae

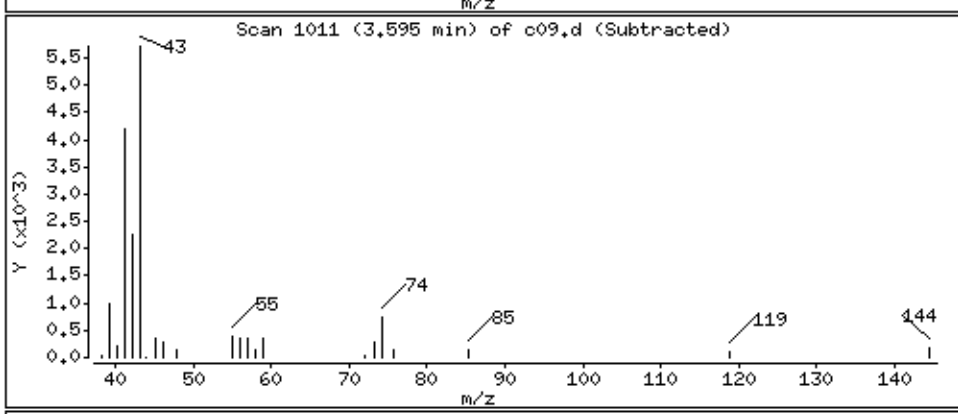
Column phase: DB-624

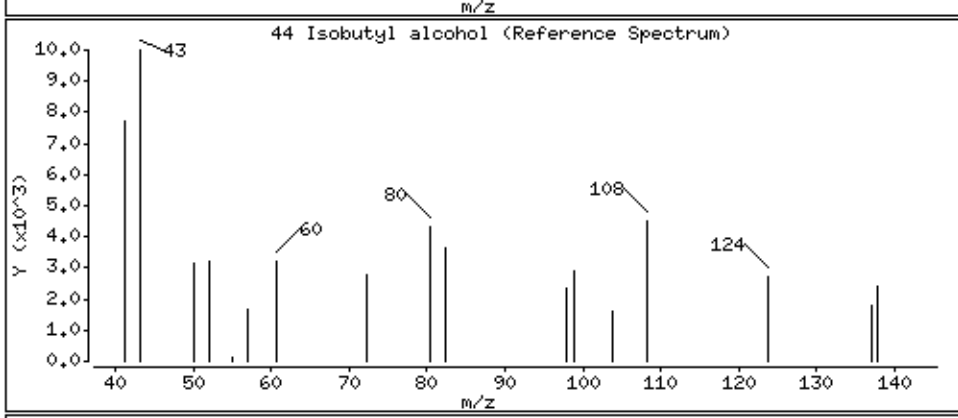
Column diameter: 0.18

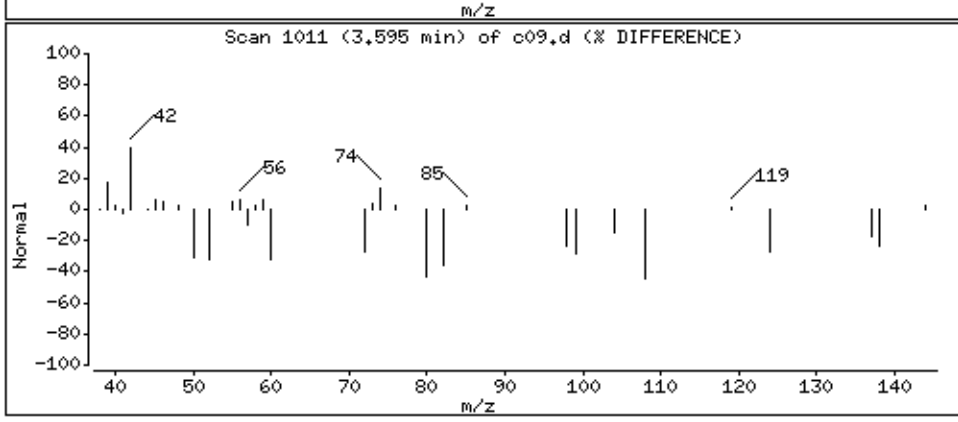
44 Isobutyl alcohol

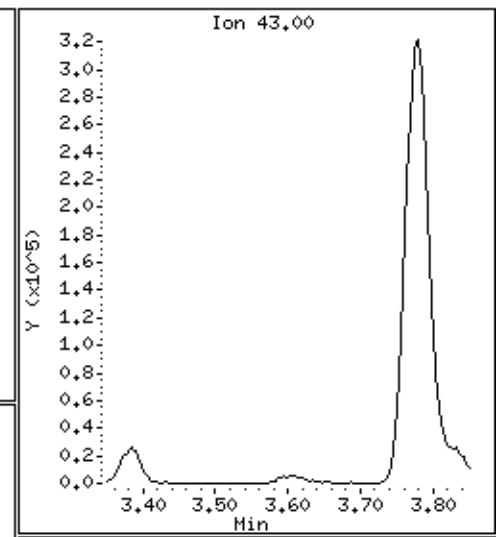
Concentration: 0.787 ppb

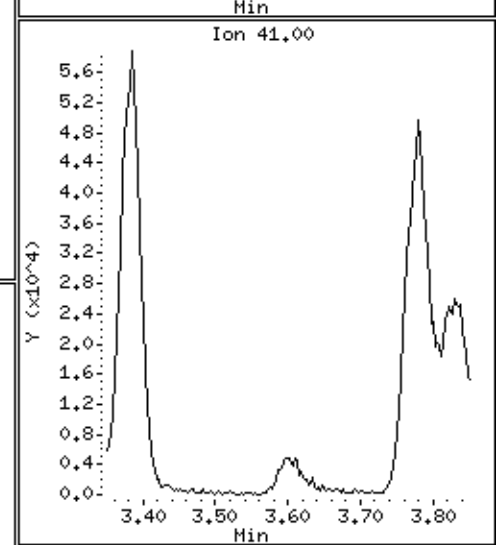


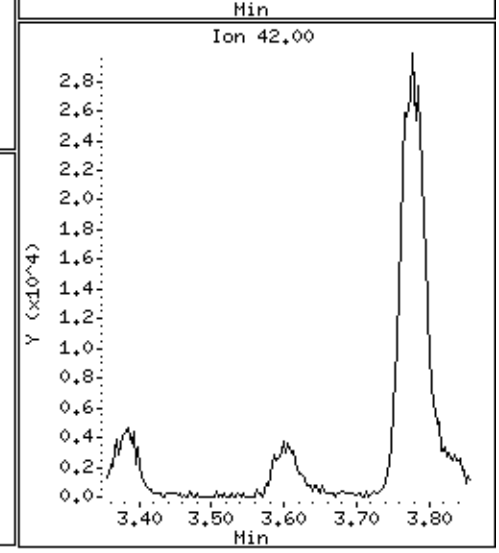












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

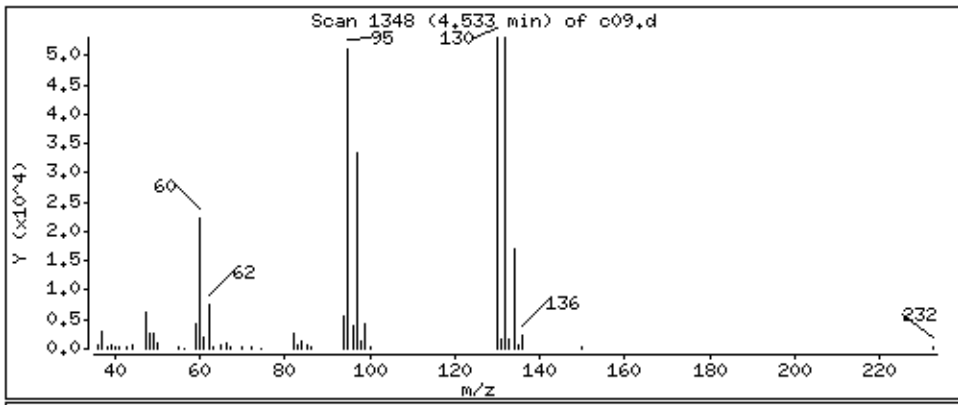
Operator: dae

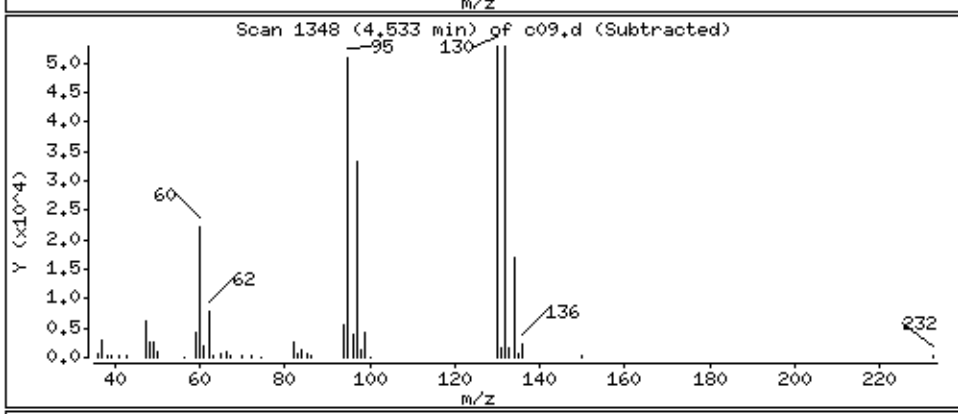
Column phase: DB-624

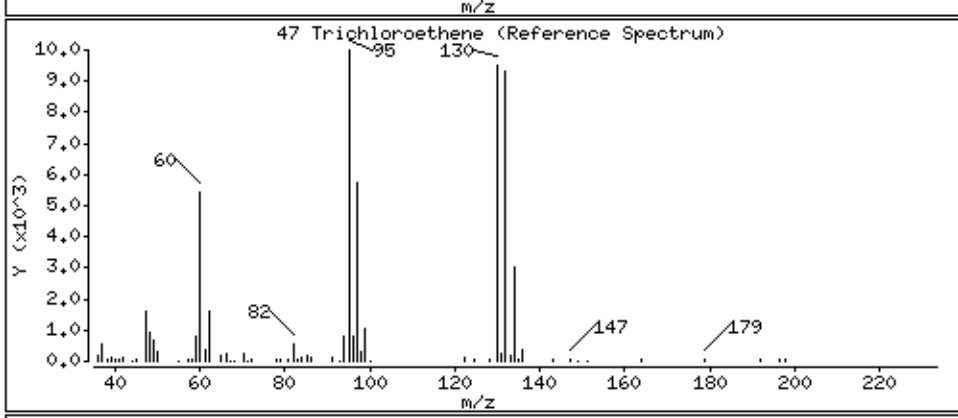
Column diameter: 0.18

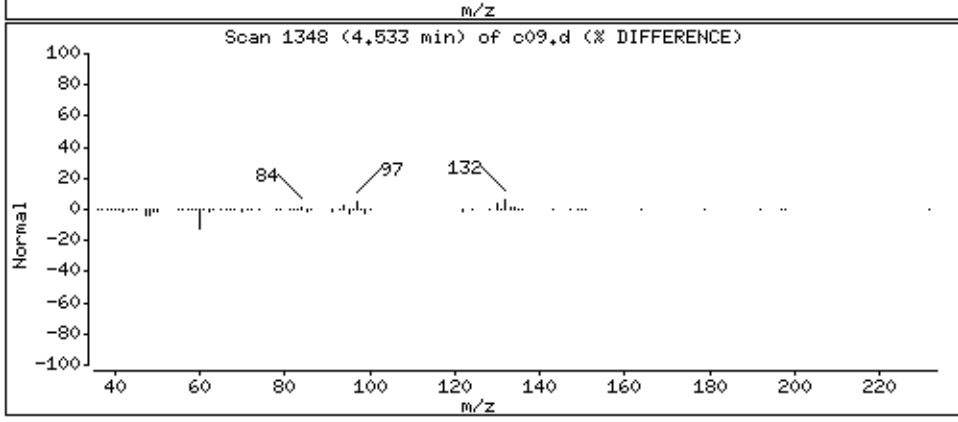
47 Trichloroethene

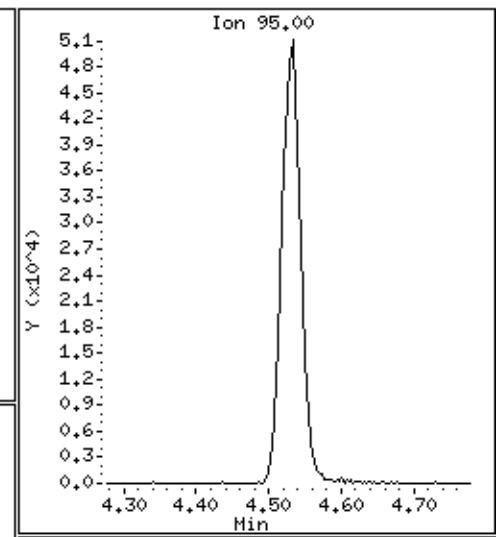
Concentration: 40.9 ppb

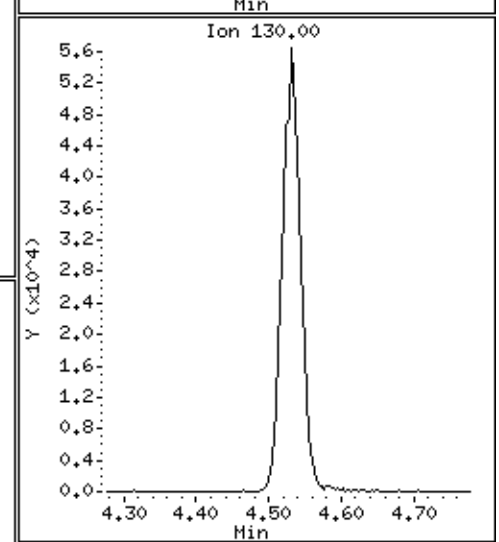


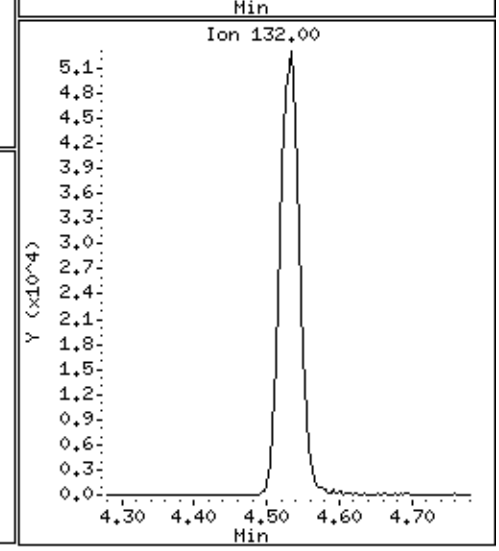












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

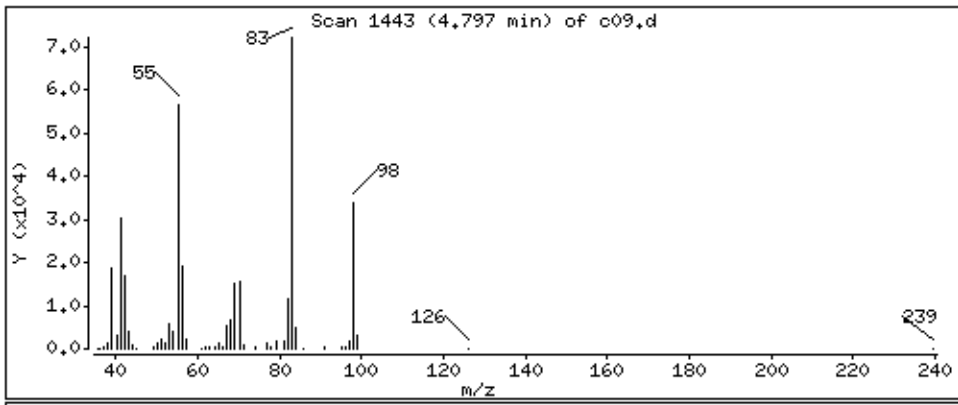
Operator: dae

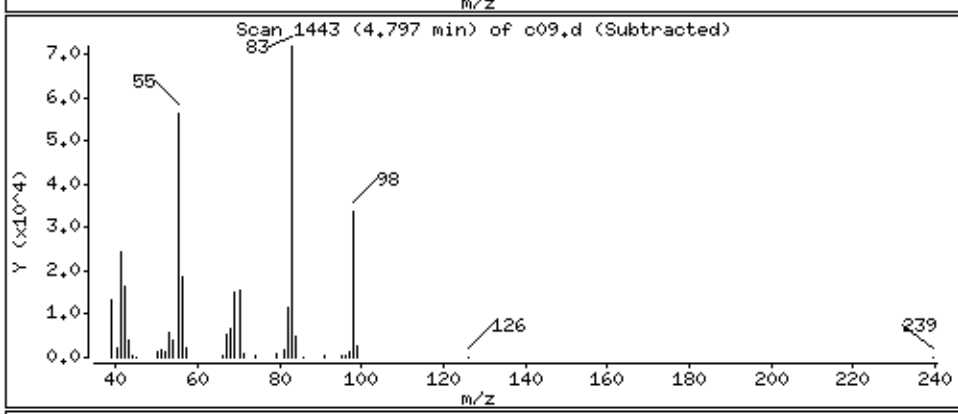
Column phase: DB-624

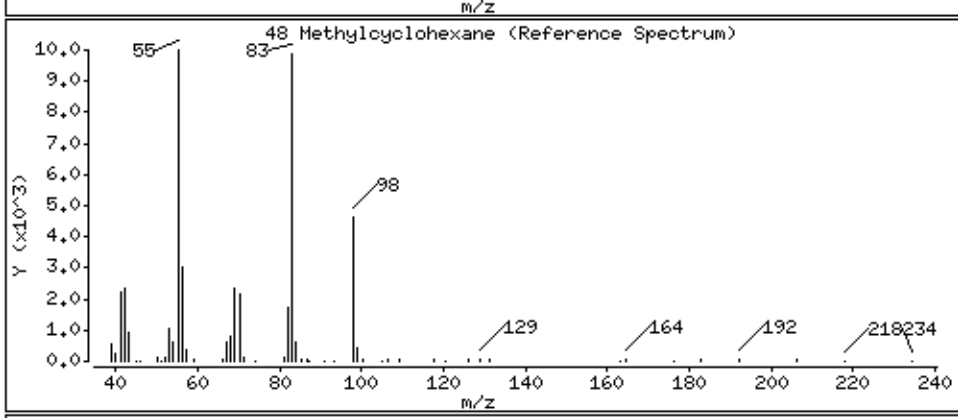
Column diameter: 0.18

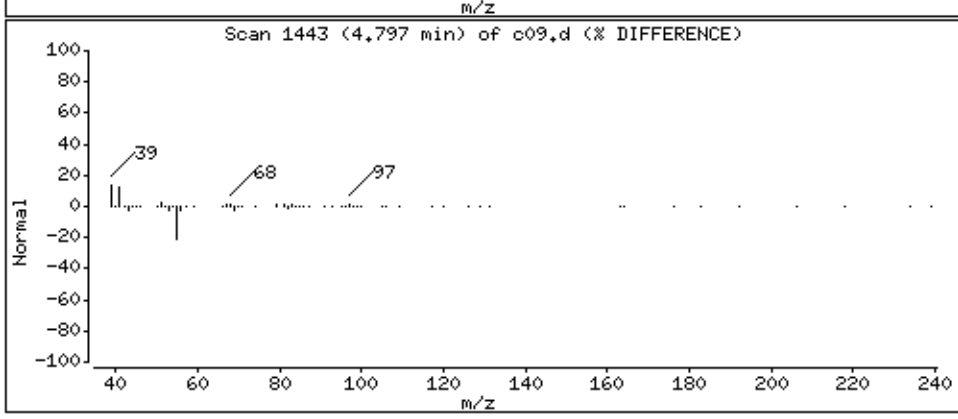
48 Methylcyclohexane

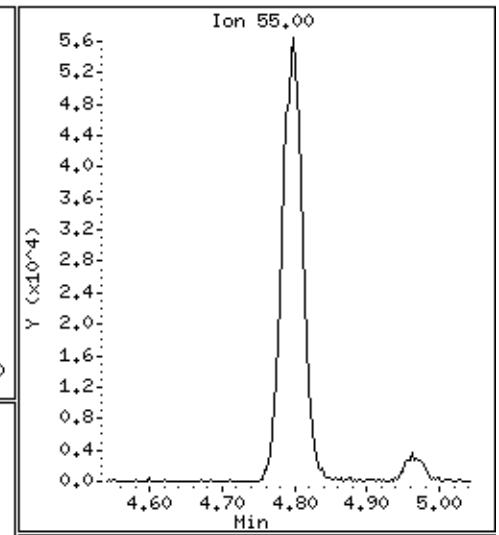
Concentration: 42.1 ppb

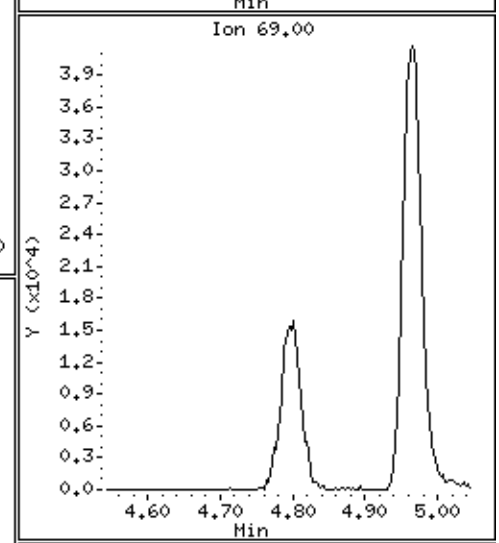


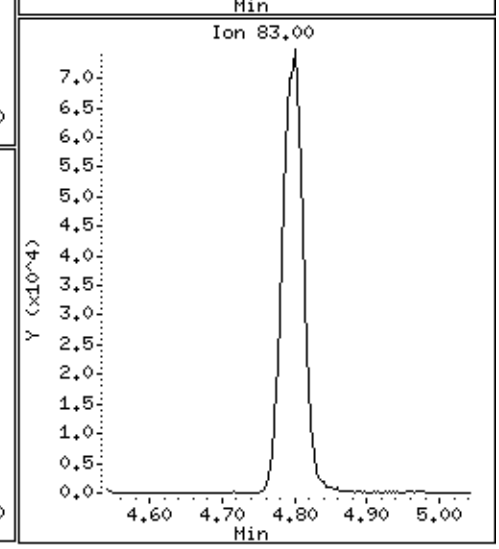












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

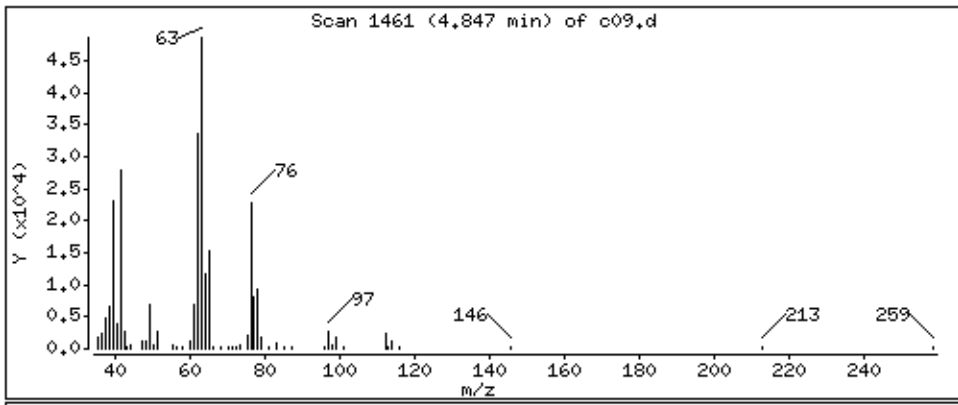
Operator: dae

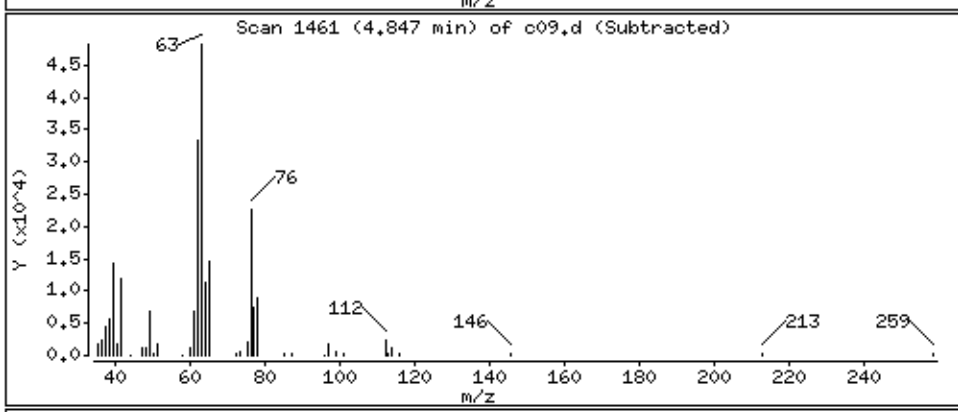
Column phase: DB-624

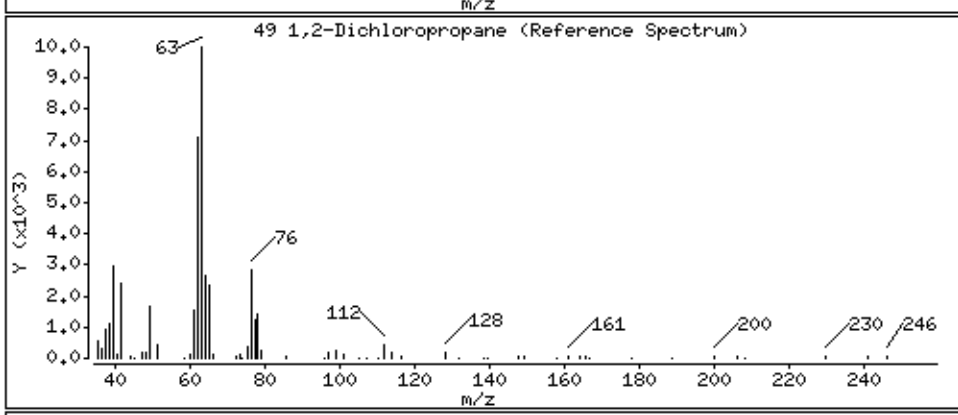
Column diameter: 0.18

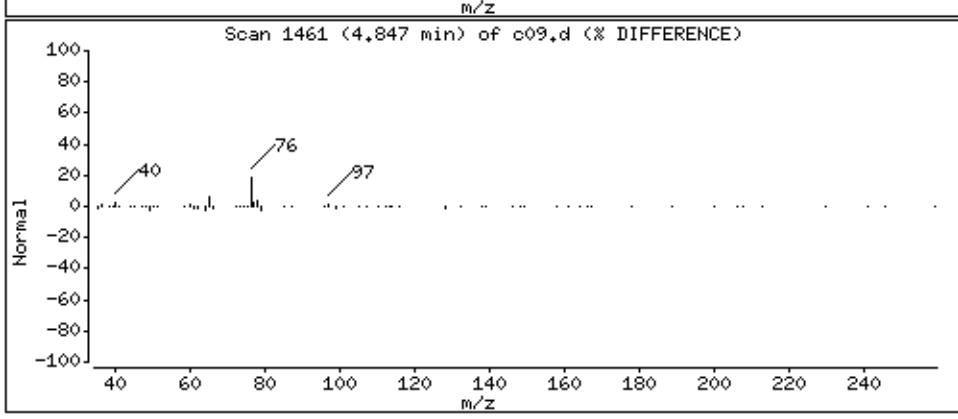
49 1,2-Dichloropropane

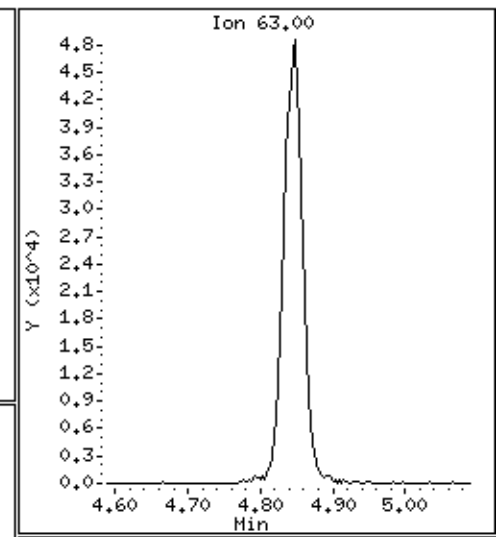
Concentration: 38.9 ppb

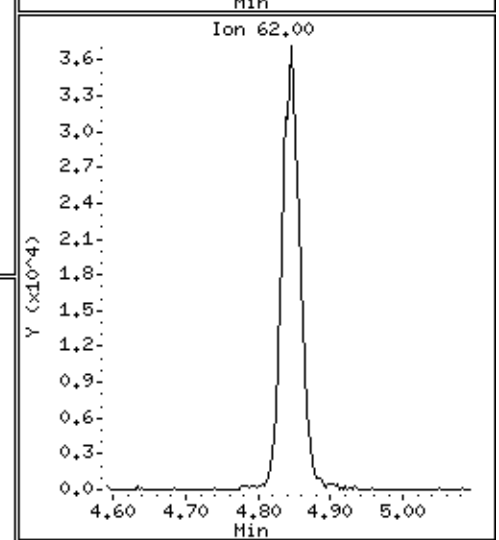


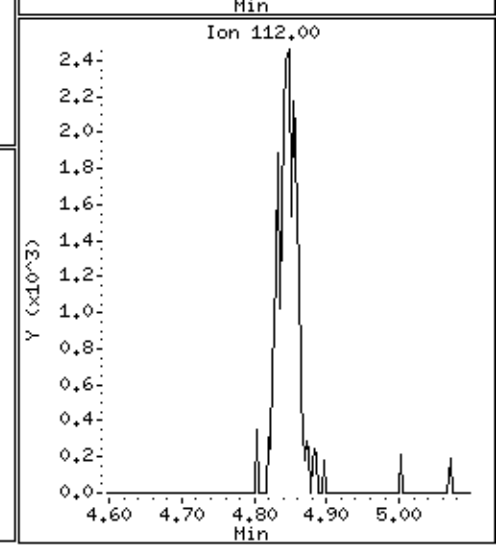












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

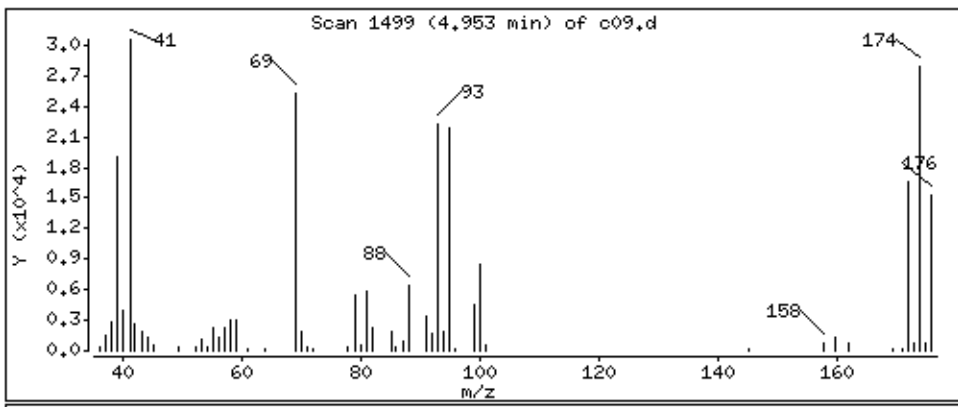
Operator: dae

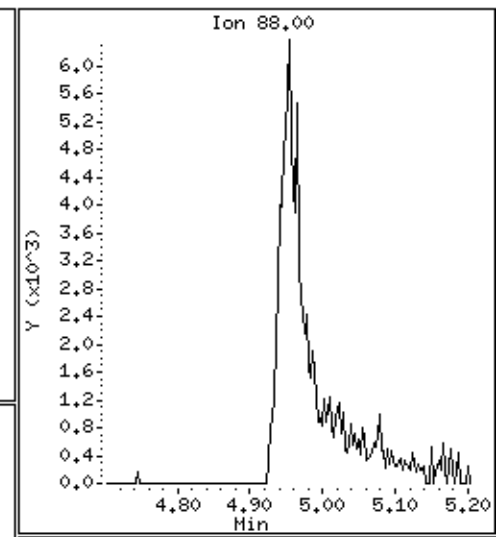
Column phase: DB-624

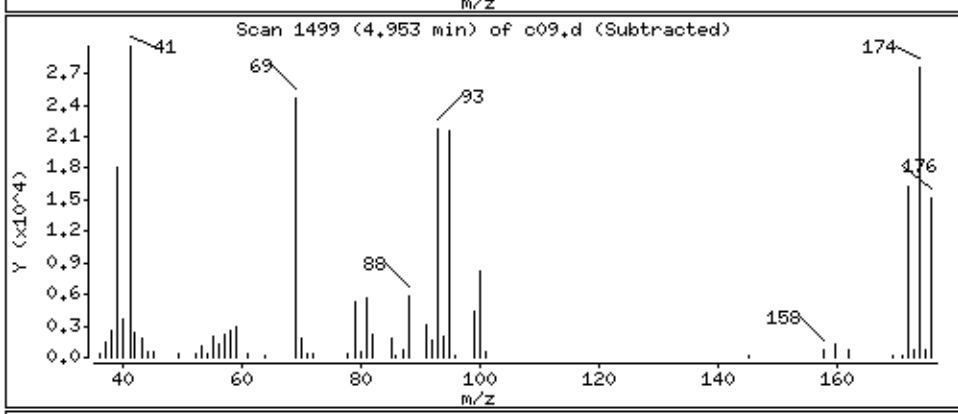
Column diameter: 0.18

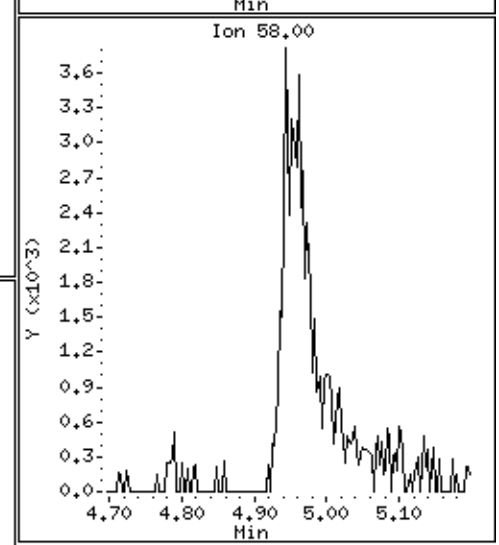
50 1,4-Dioxane

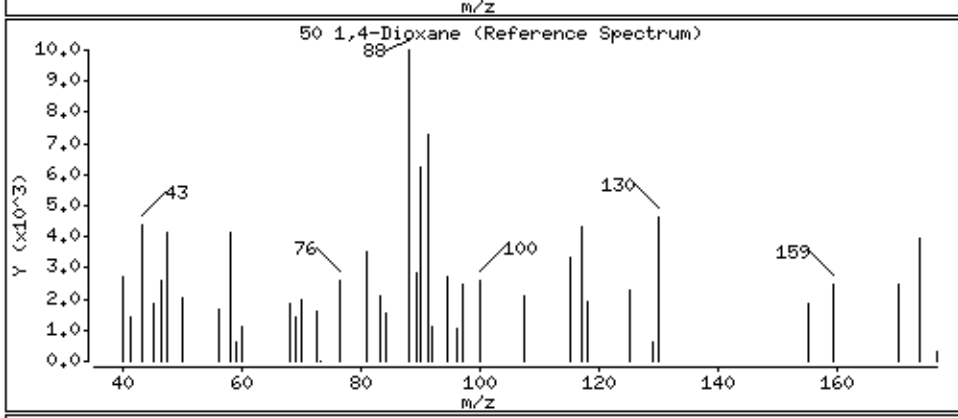
Concentration: 495 ppb

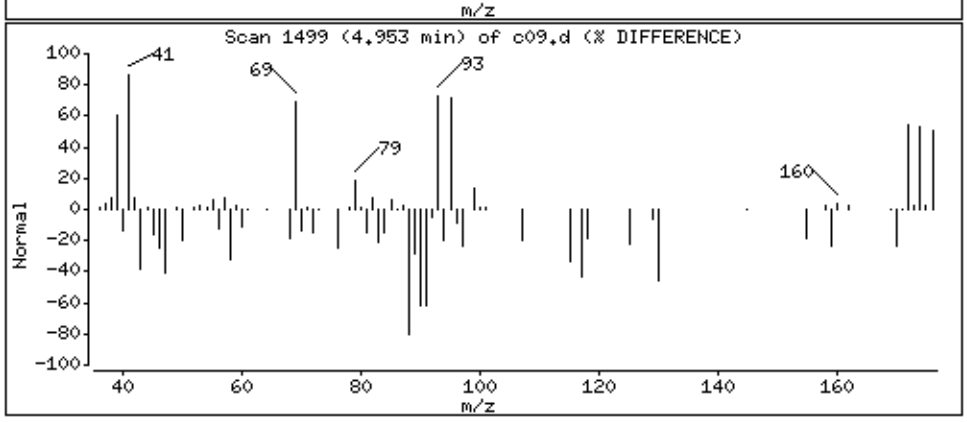












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

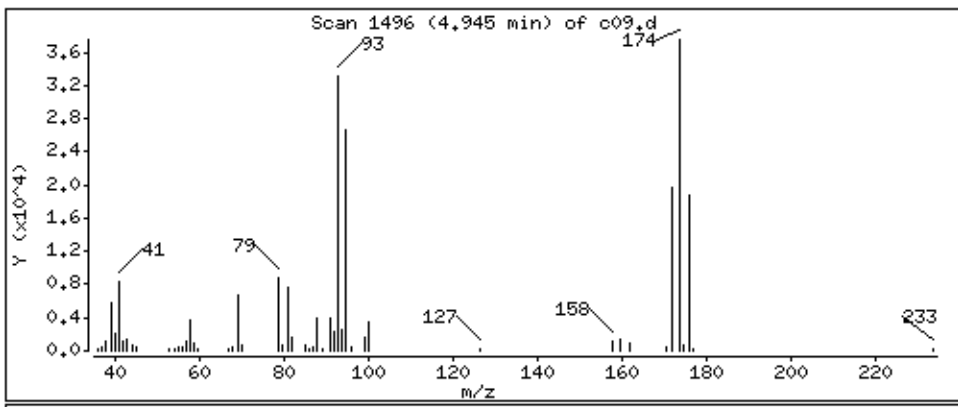
Operator: dae

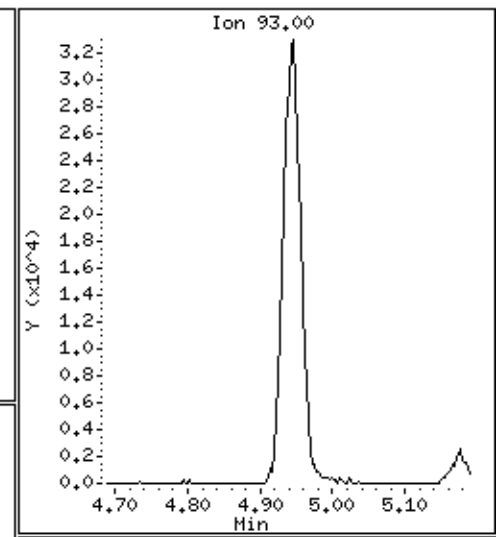
Column phase: DB-624

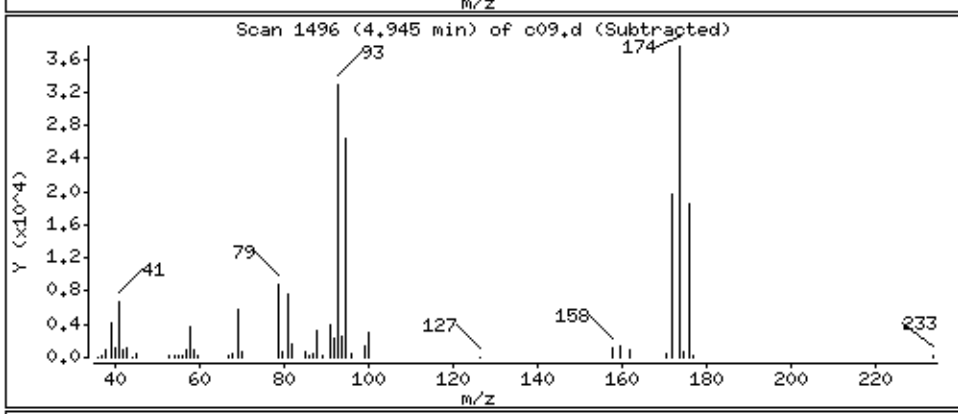
Column diameter: 0.18

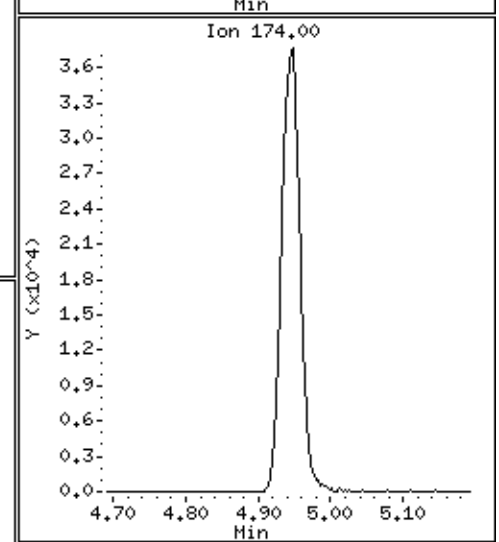
51 Dibromomethane

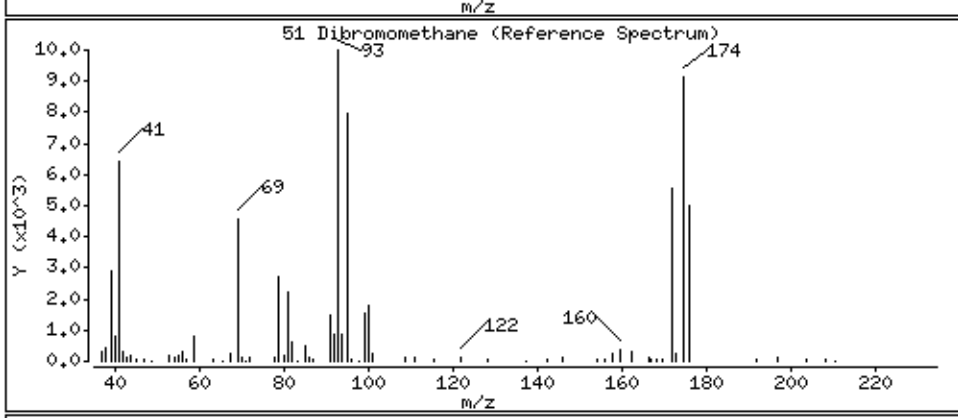
Concentration: 39.0 ppb

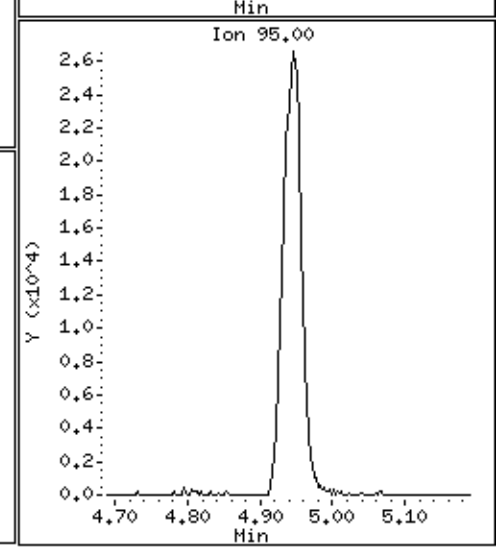


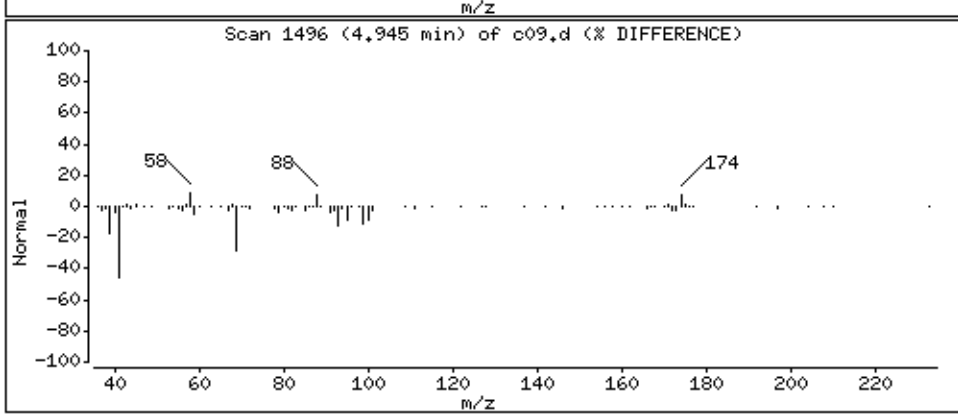












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

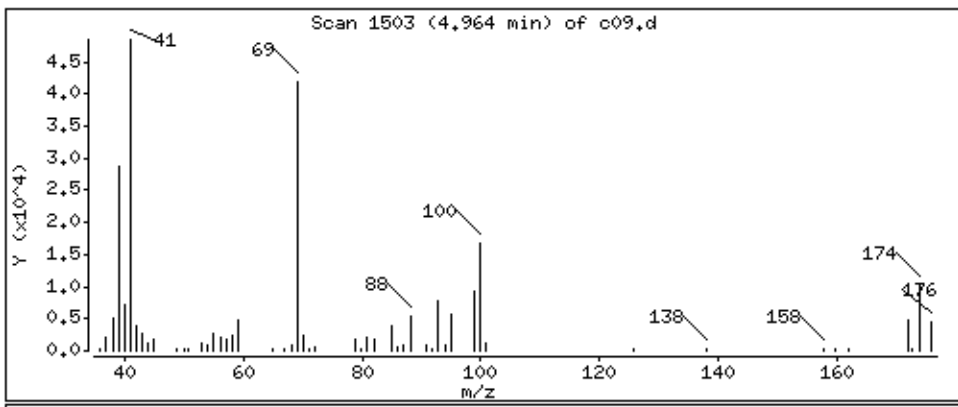
Operator: dae

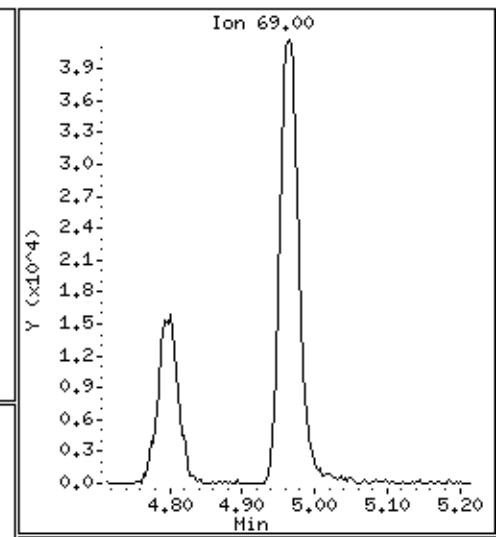
Column phase: DB-624

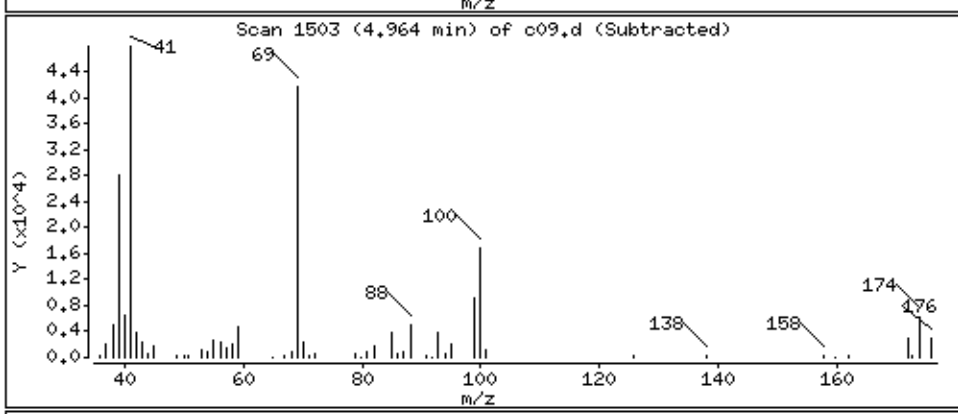
Column diameter: 0.18

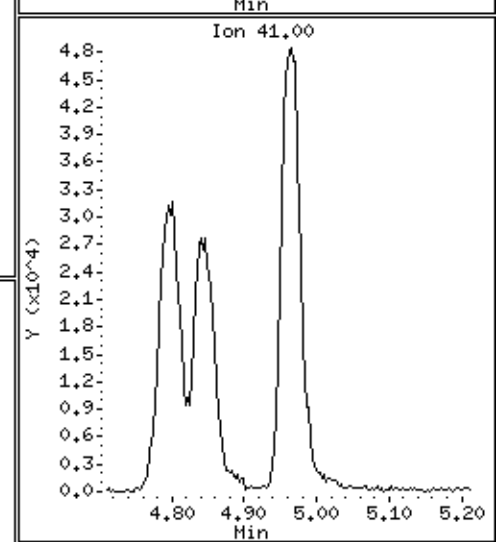
52 Methyl methacrylate

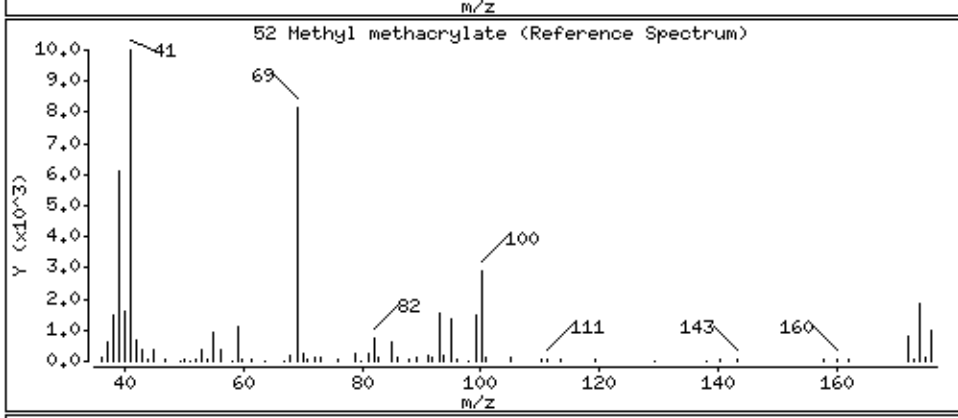
Concentration: 39.2 ppb

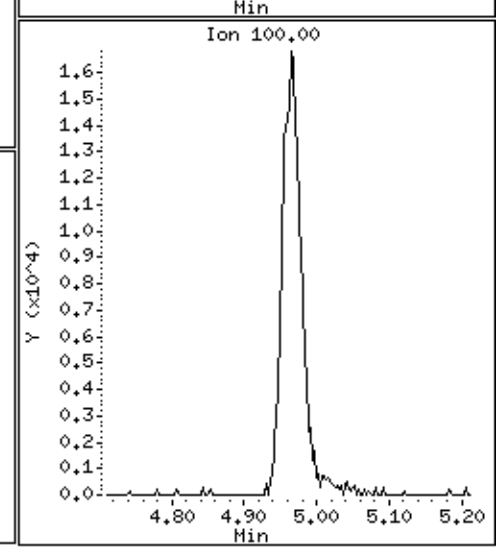


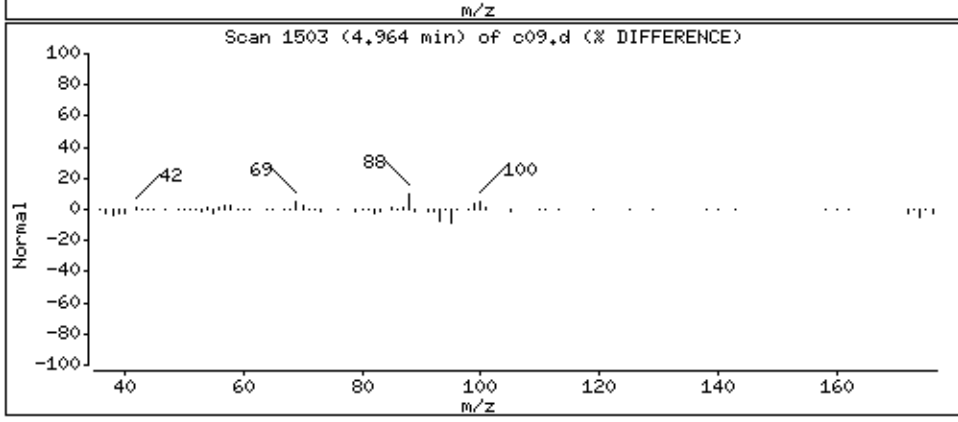












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

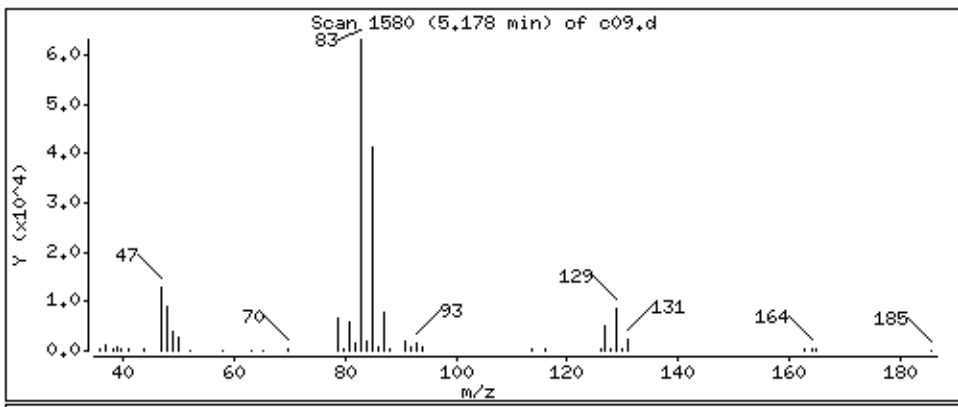
Operator: dae

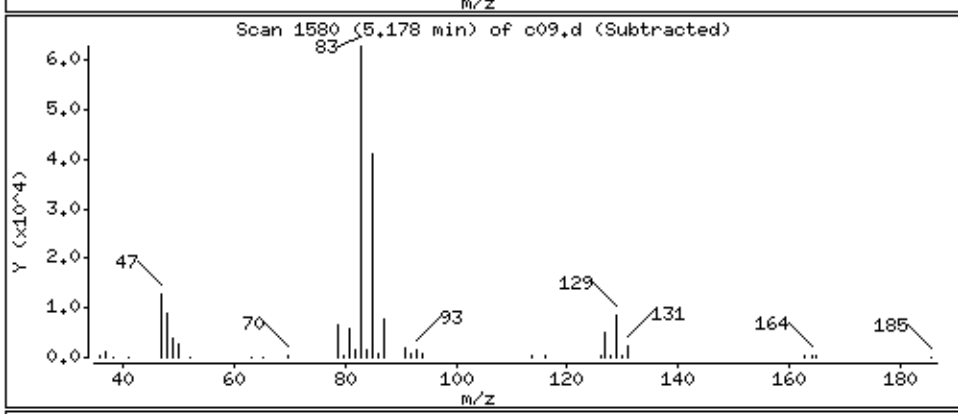
Column phase: DB-624

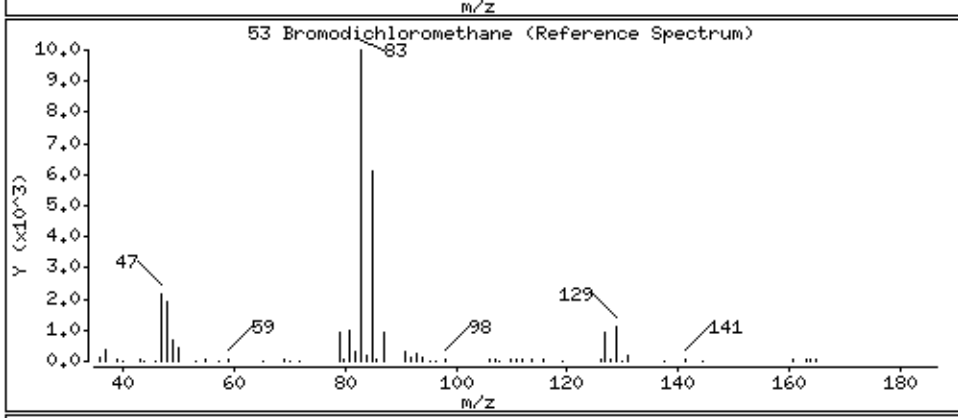
Column diameter: 0.18

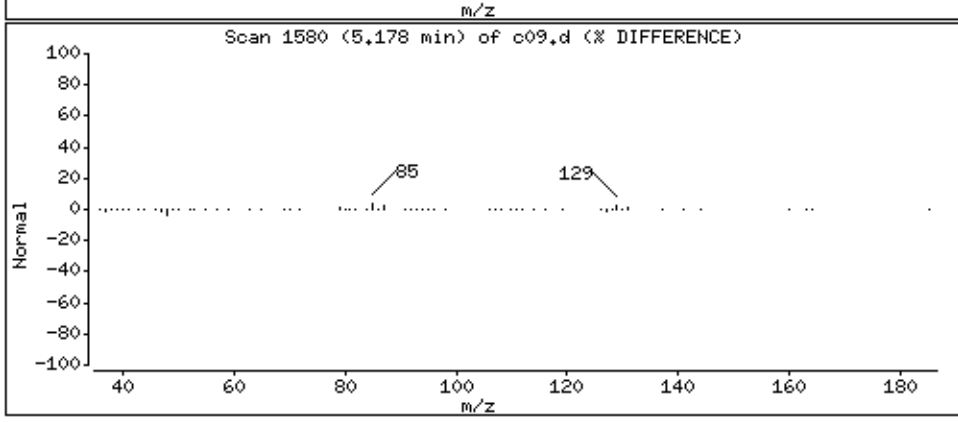
53 Bromodichloromethane

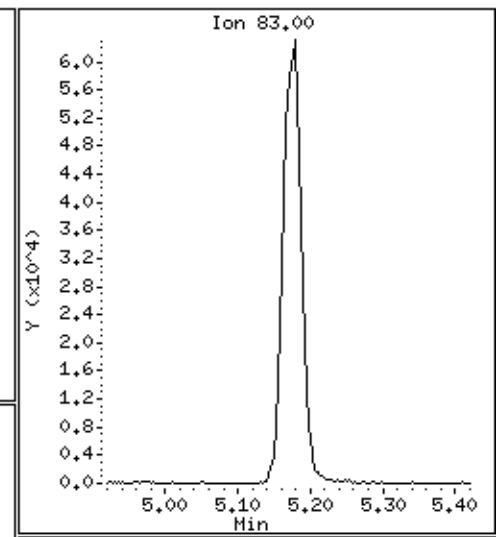
Concentration: 37.7 ppb

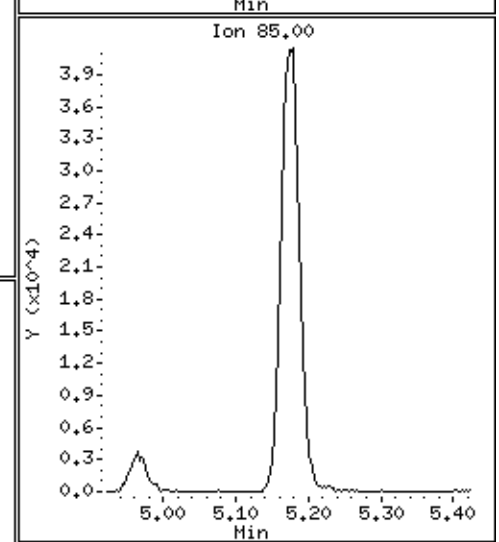


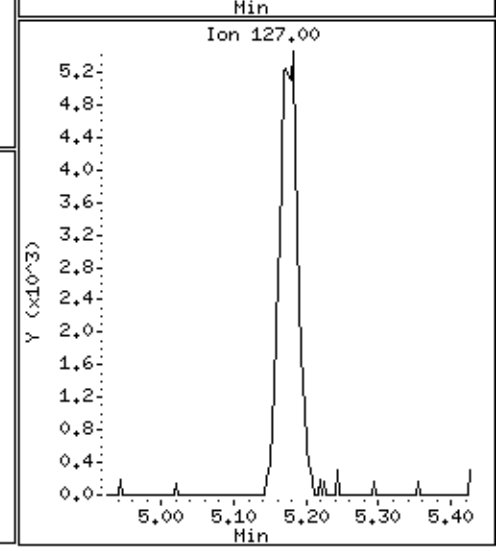












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

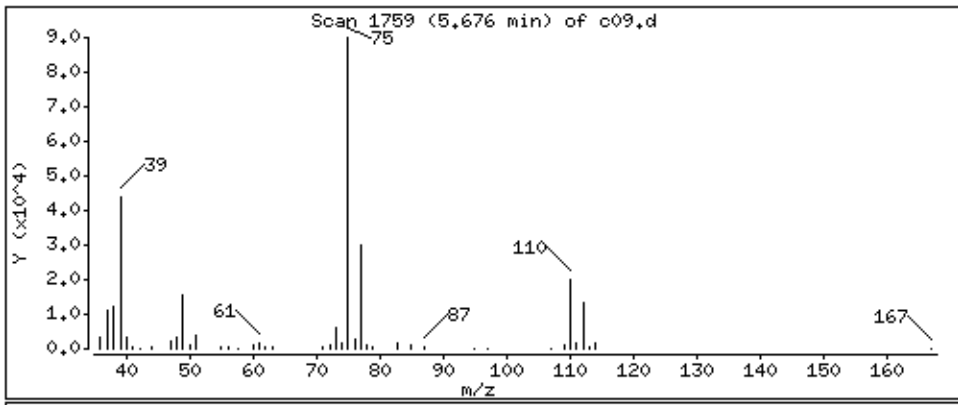
Operator: dae

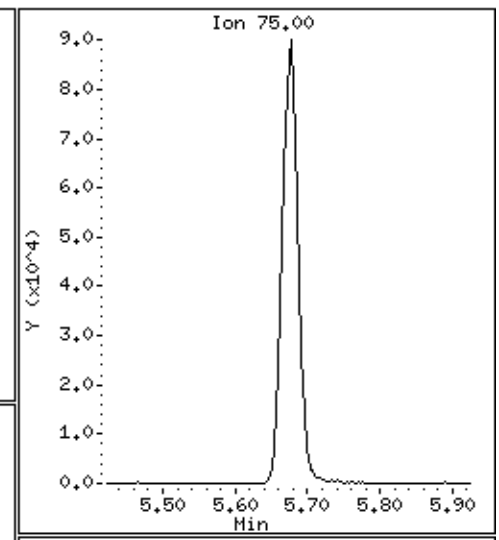
Column phase: DB-624

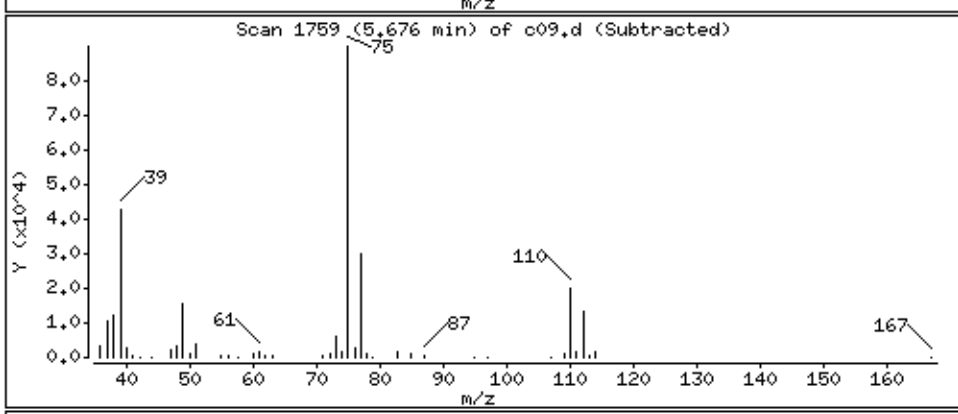
Column diameter: 0.18

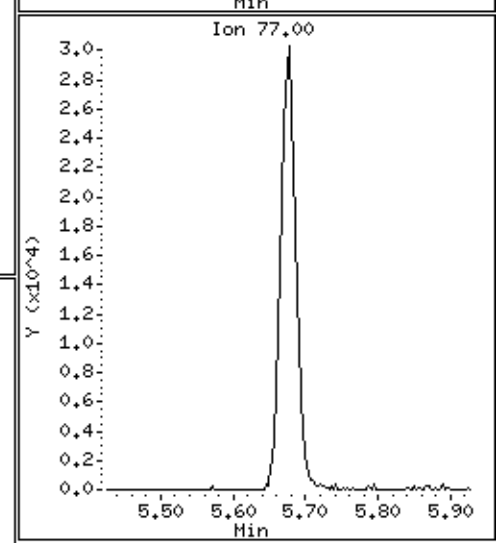
55 cis-1,3-Dichloropropene

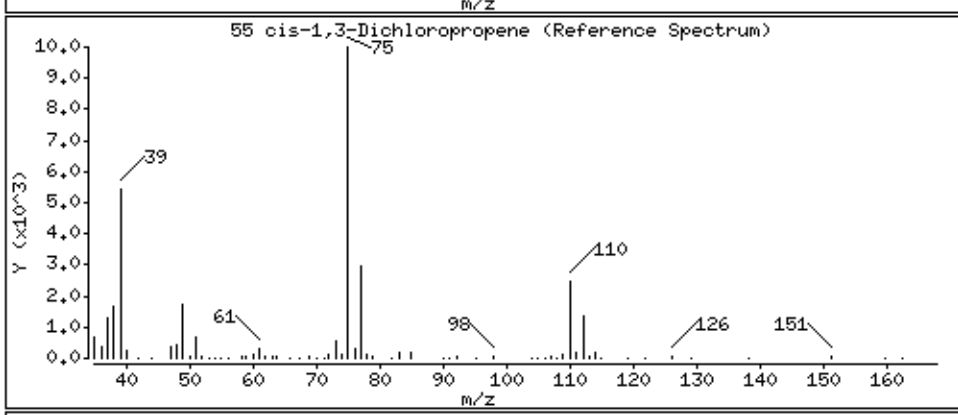
Concentration: 35.5 ppb

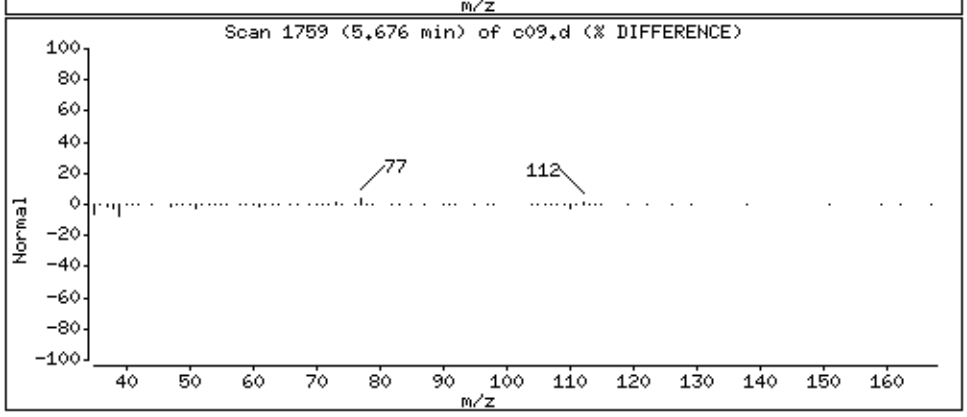












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

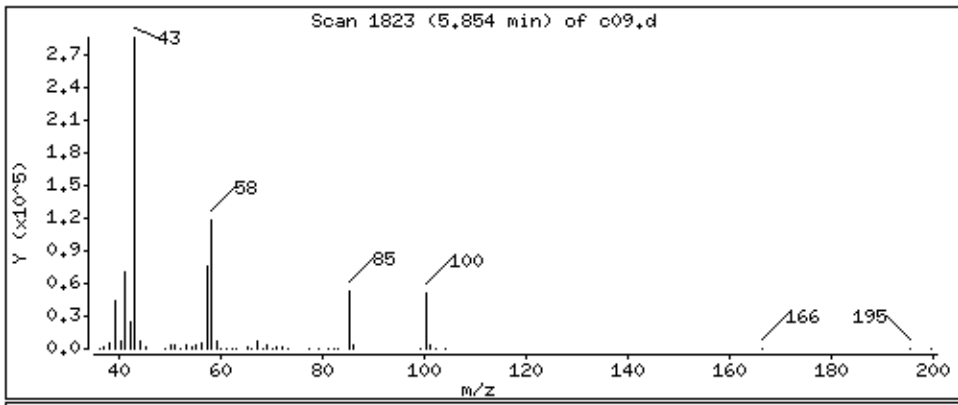
Operator: dae

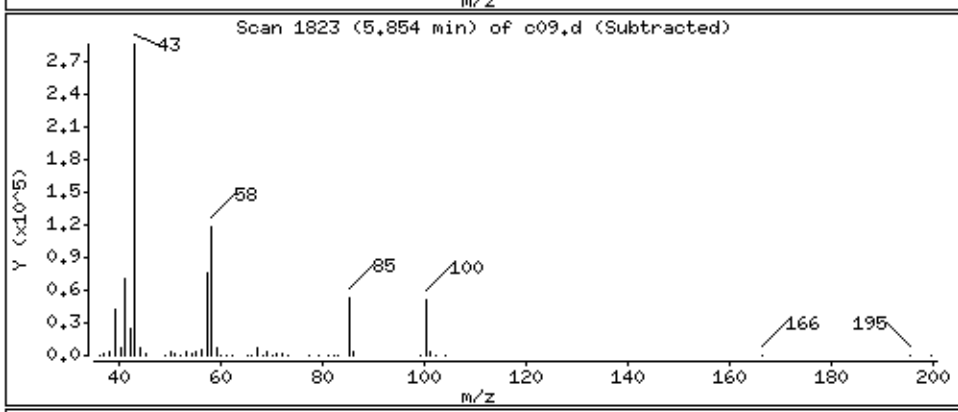
Column phase: DB-624

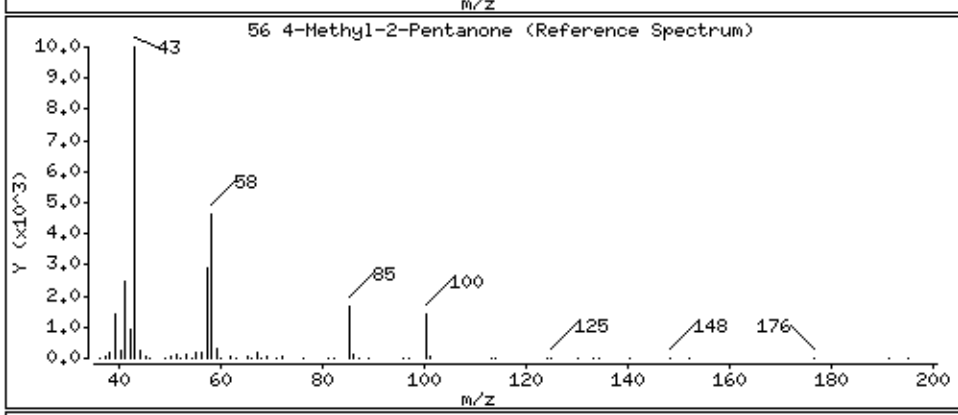
Column diameter: 0.18

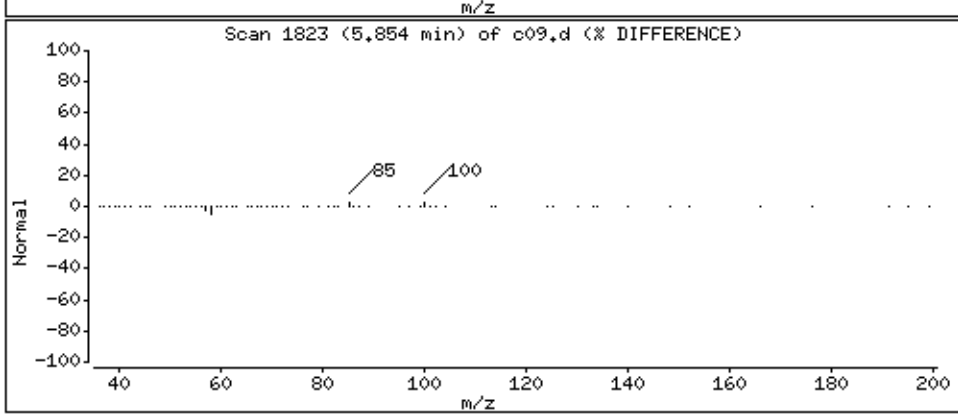
56 4-Methyl-2-Pentanone

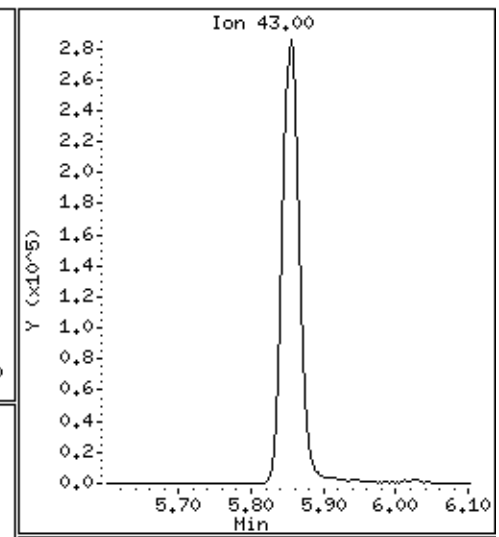
Concentration: 183 ppb

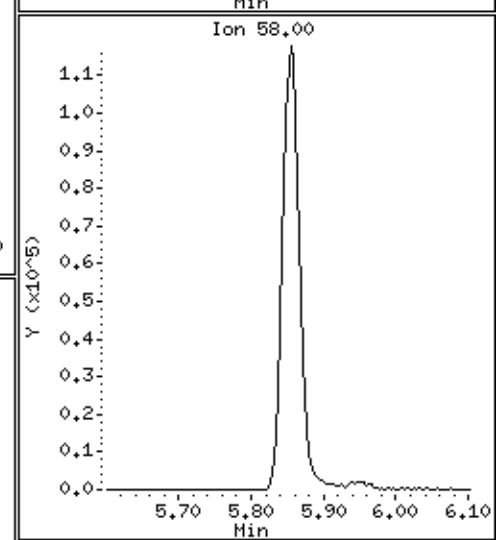


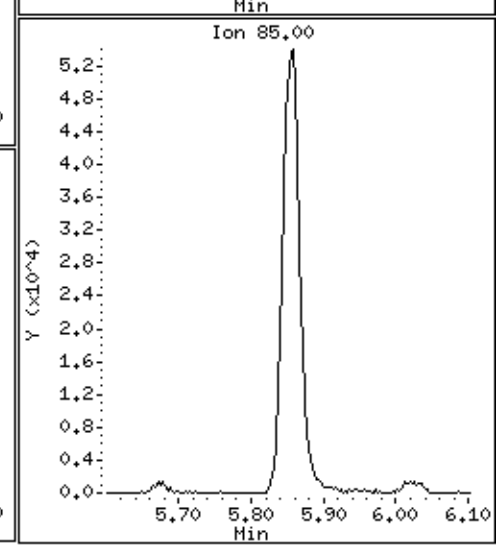












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

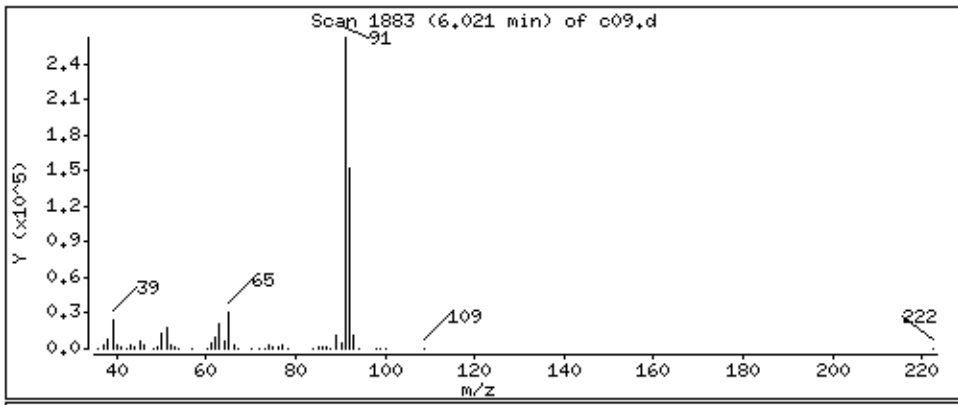
Operator: dae

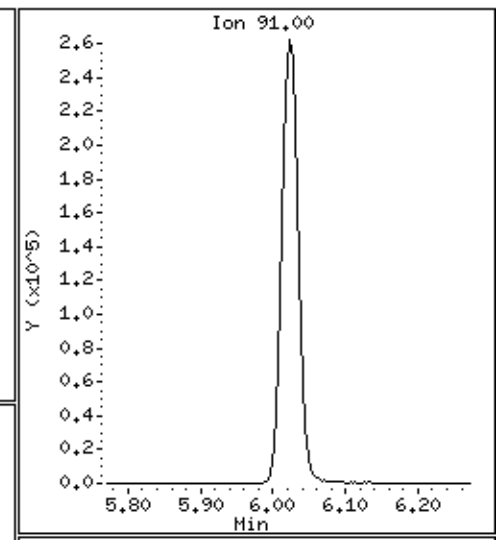
Column phase: DB-624

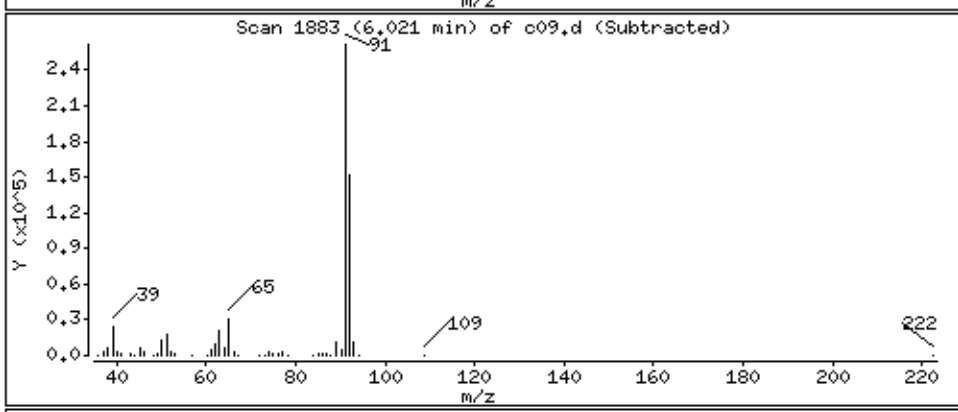
Column diameter: 0.18

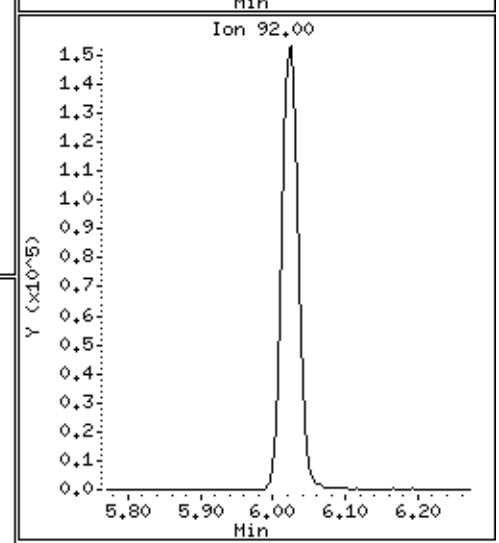
58 Toluene

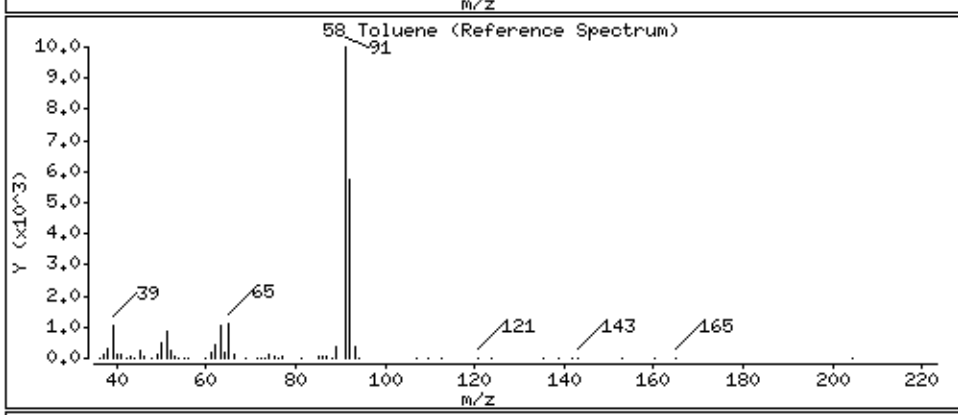
Concentration: 42.6 ppb

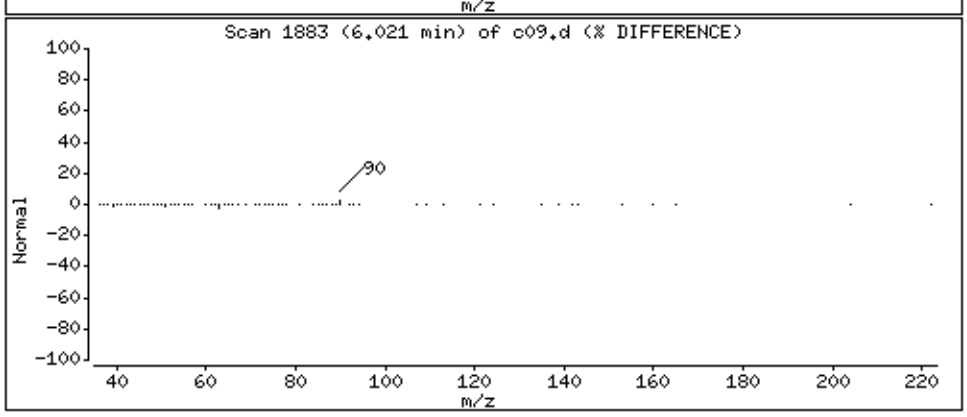












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

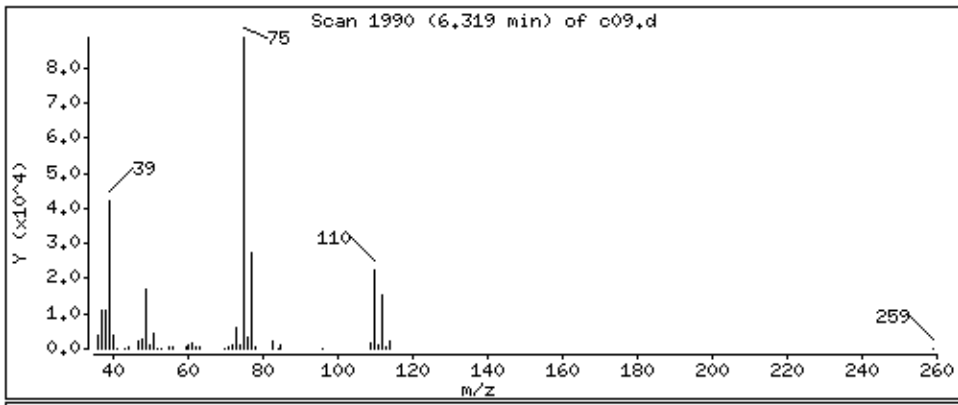
Operator: dae

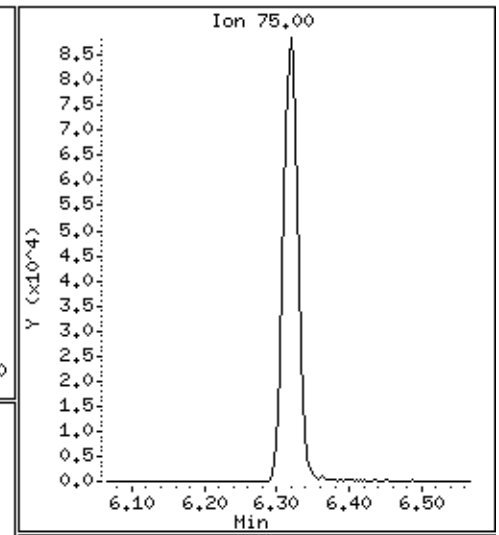
Column phase: DB-624

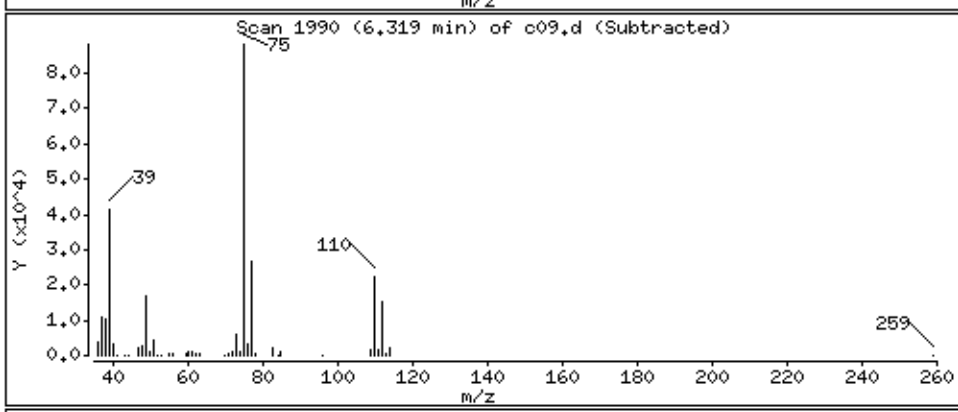
Column diameter: 0.18

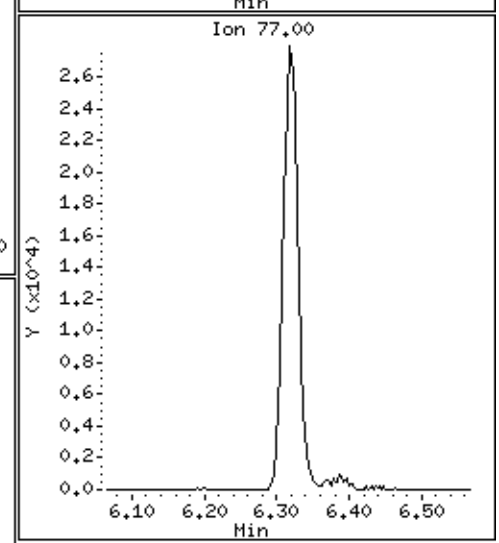
59 trans-1,3-Dichloropropene

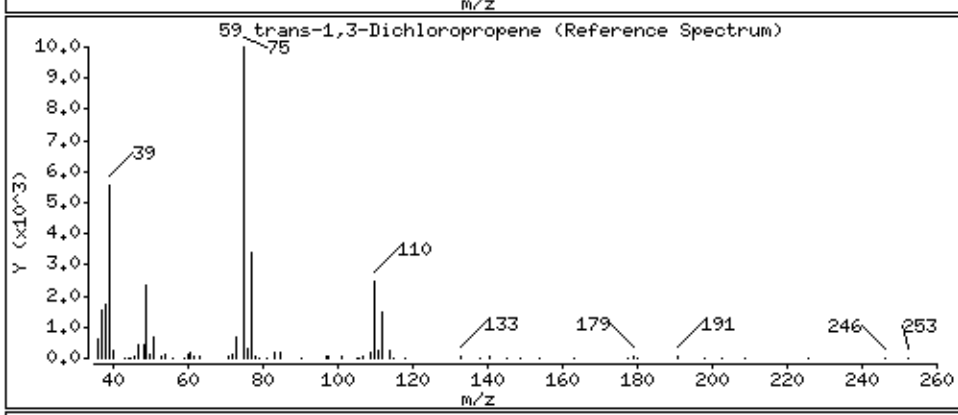
Concentration: 35.7 ppb

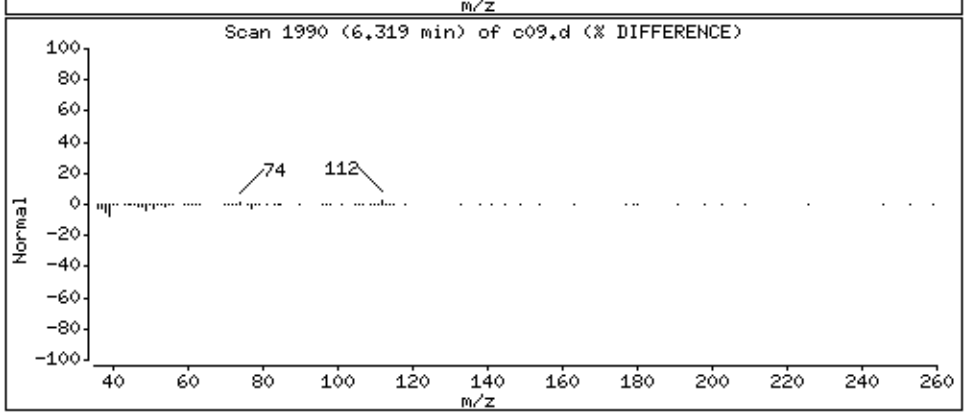












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

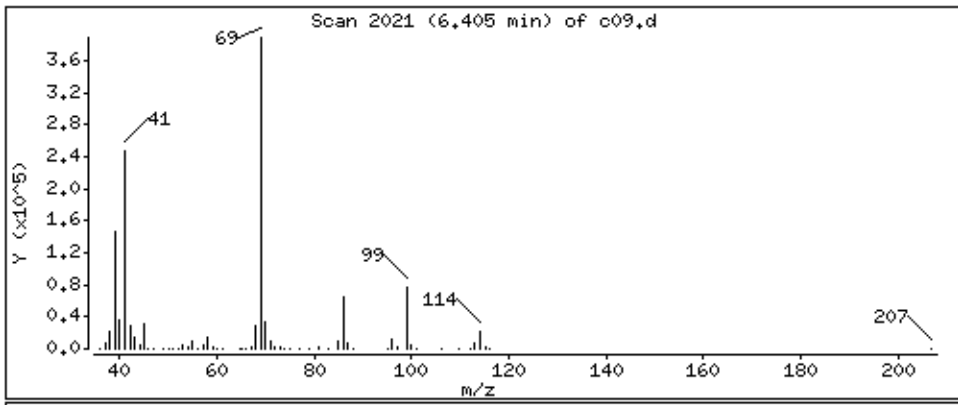
Operator: dae

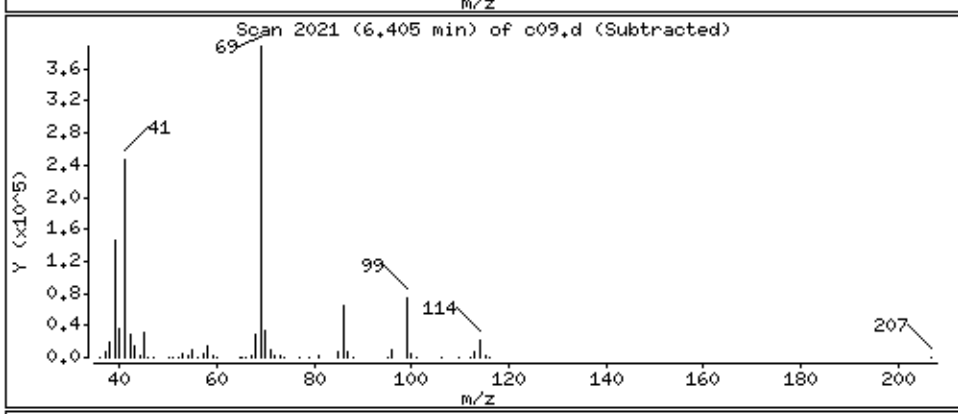
Column phase: DB-624

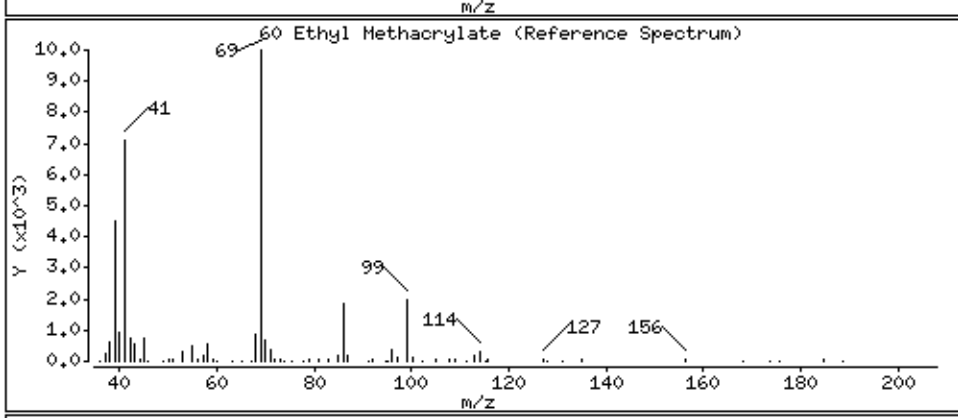
Column diameter: 0.18

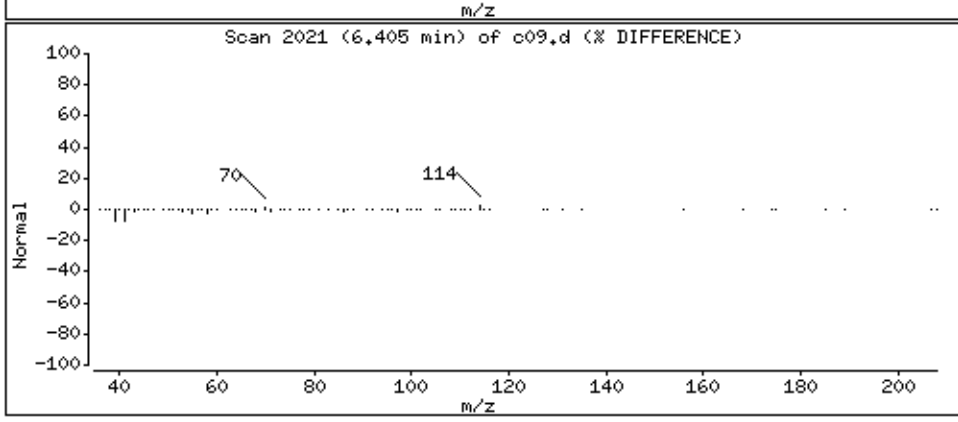
60 Ethyl Methacrylate

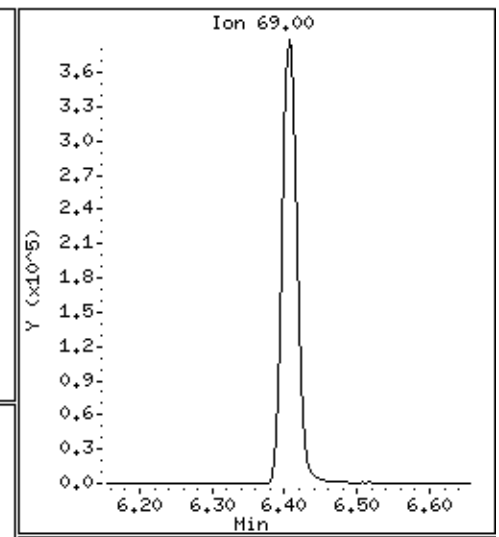
Concentration: 158 ppb

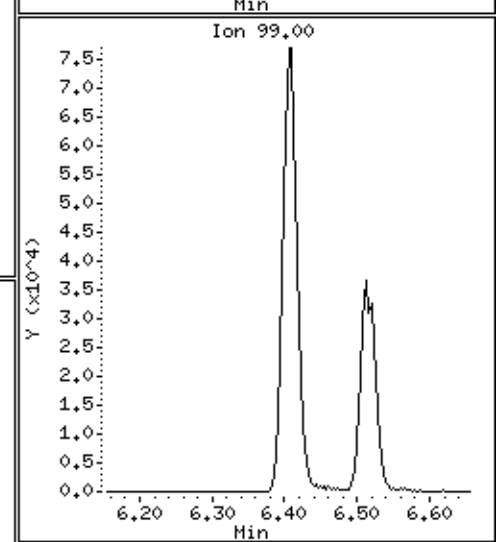


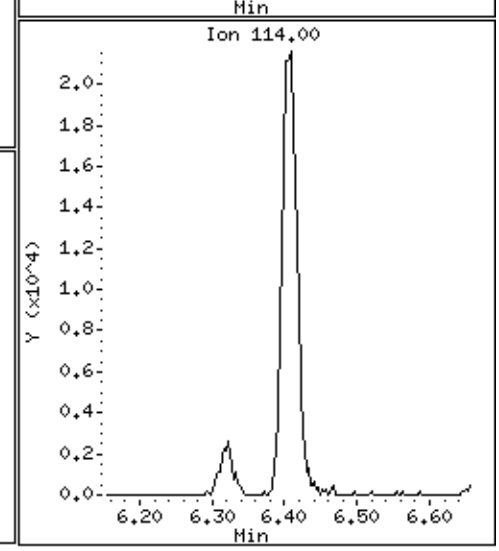












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

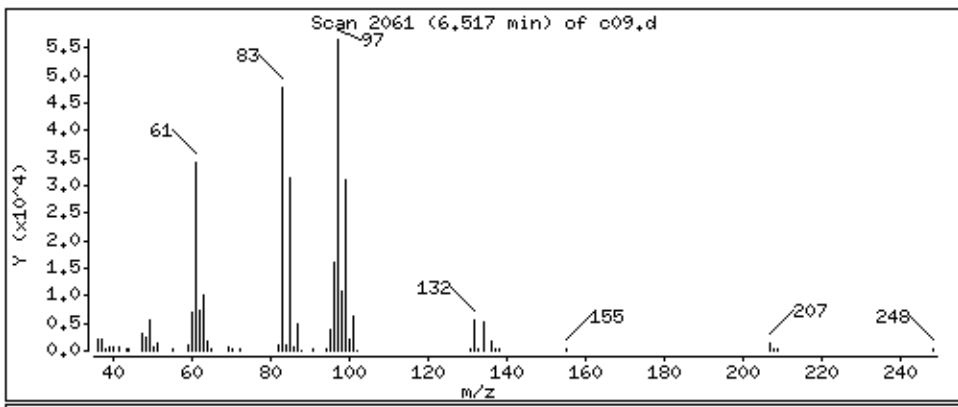
Operator: dae

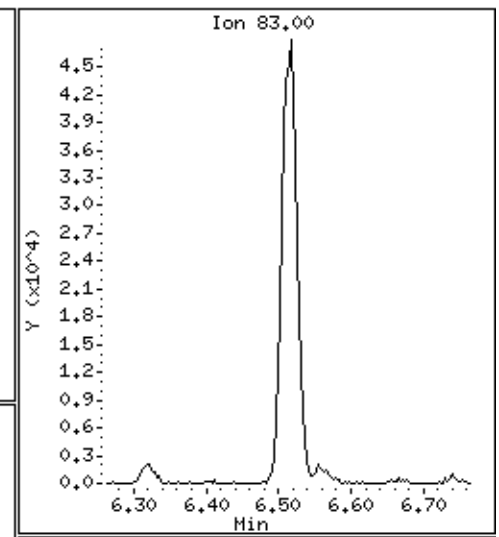
Column phase: DB-624

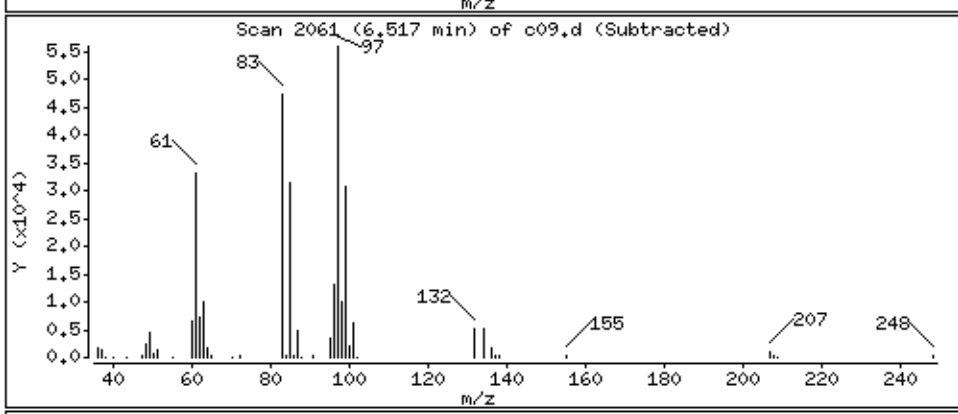
Column diameter: 0.18

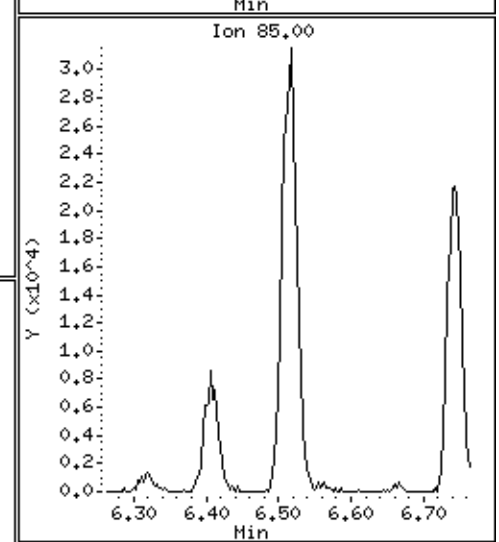
61 1,1,2-Trichloroethane

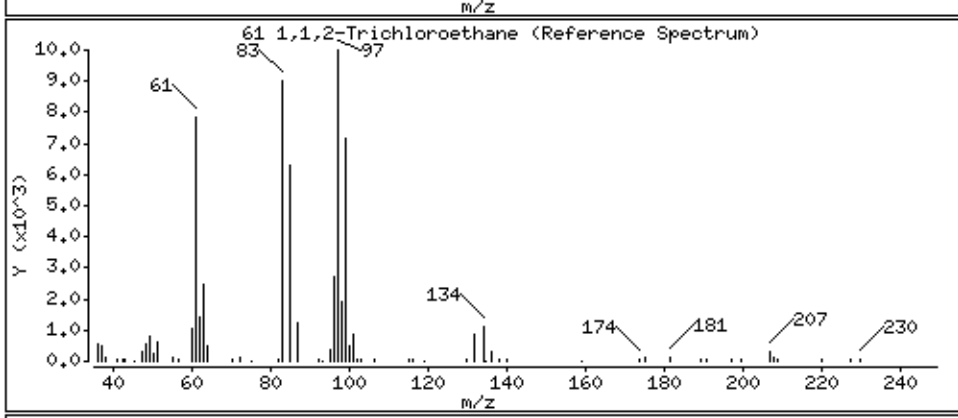
Concentration: 38.8 ppb

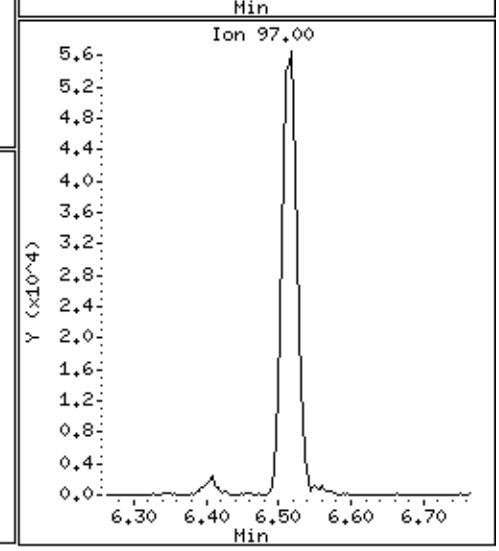


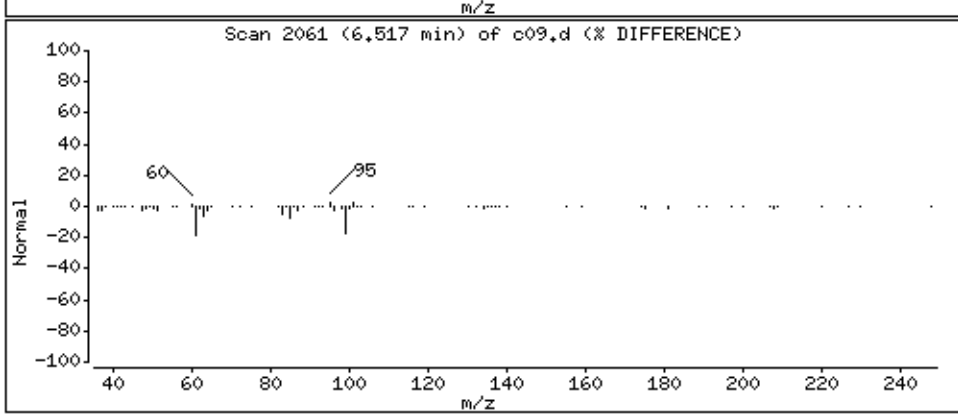












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

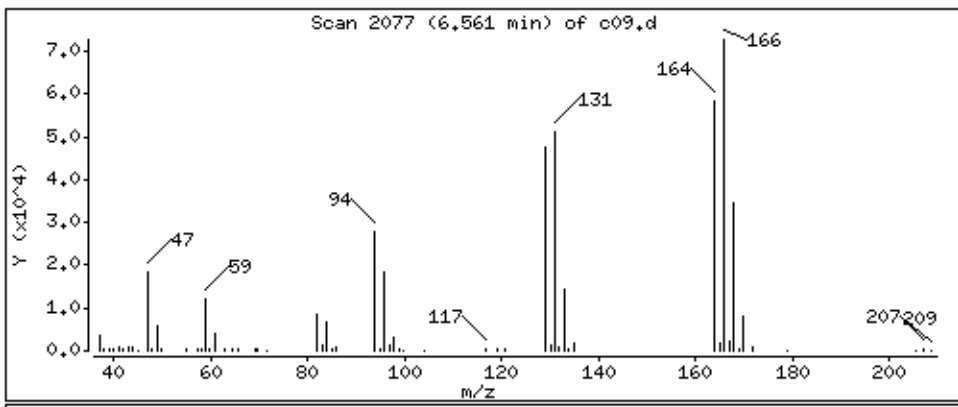
Operator: dae

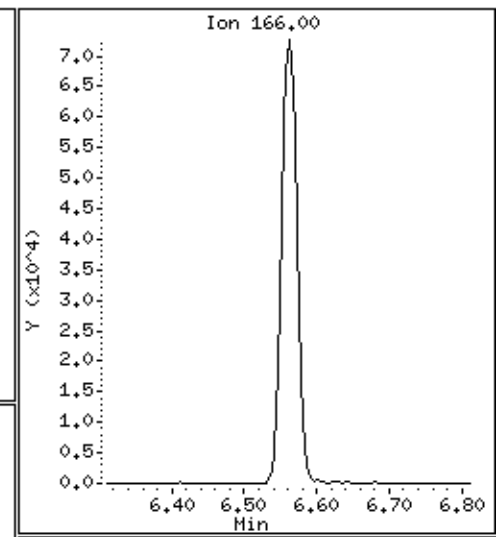
Column phase: DB-624

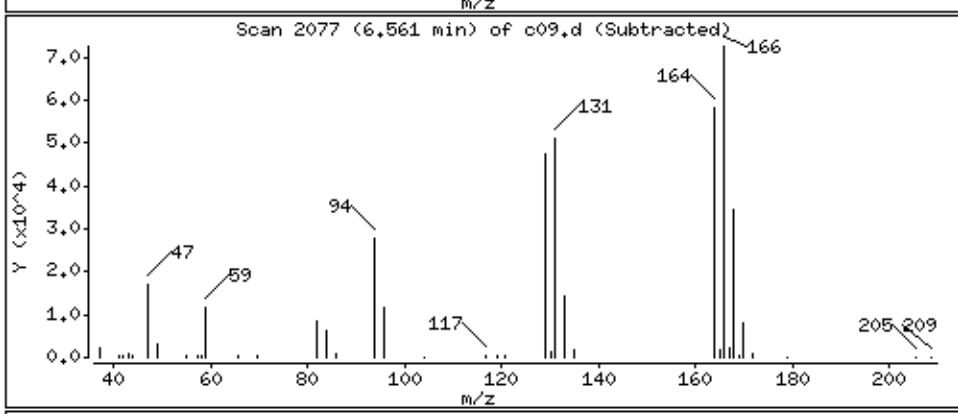
Column diameter: 0.18

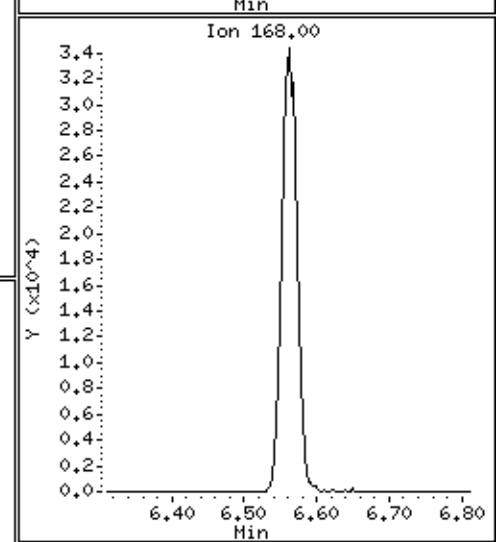
62 Tetrachloroethene

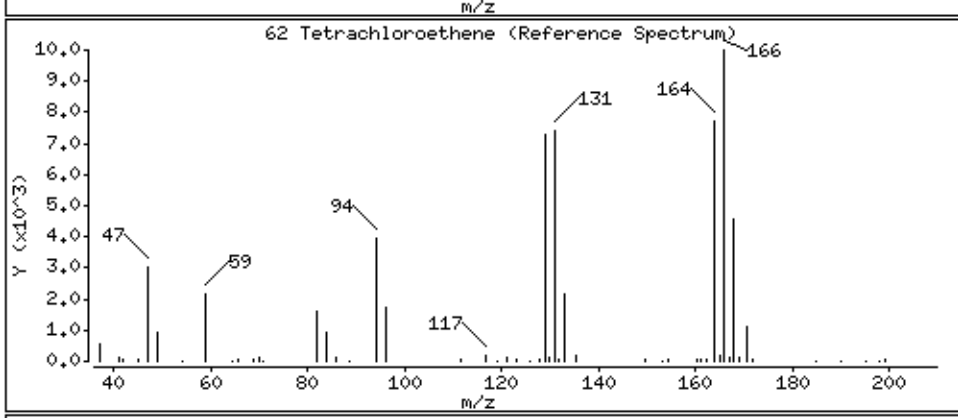
Concentration: 35.6 ppb

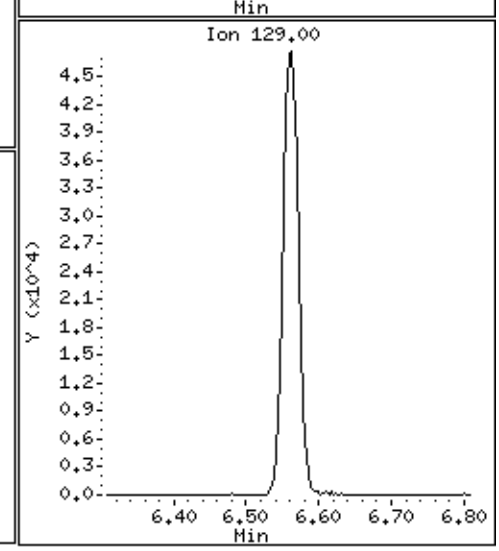


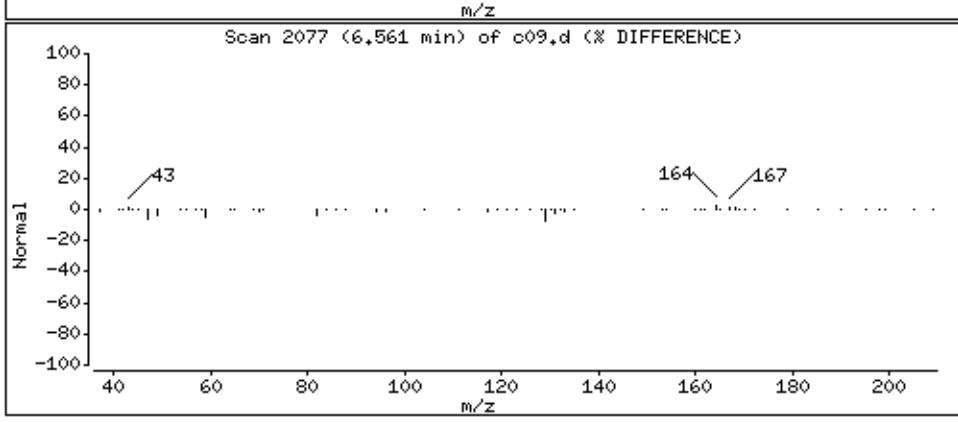












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

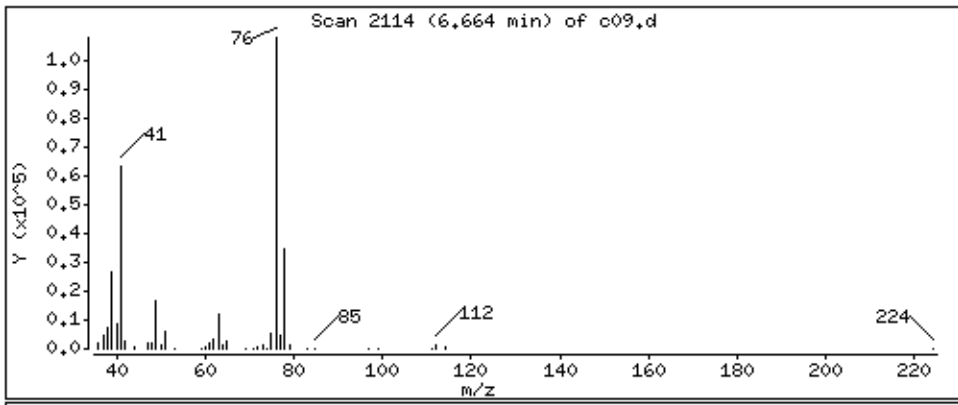
Operator: dae

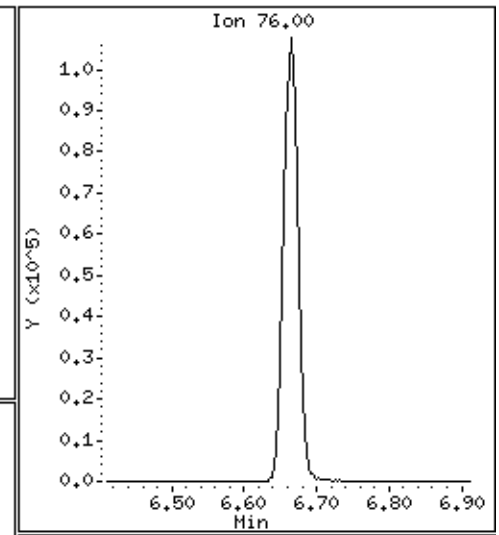
Column phase: DB-624

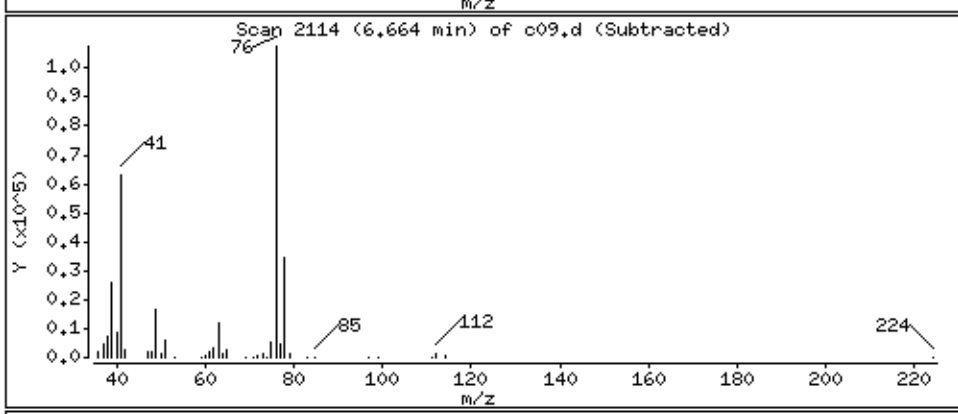
Column diameter: 0.18

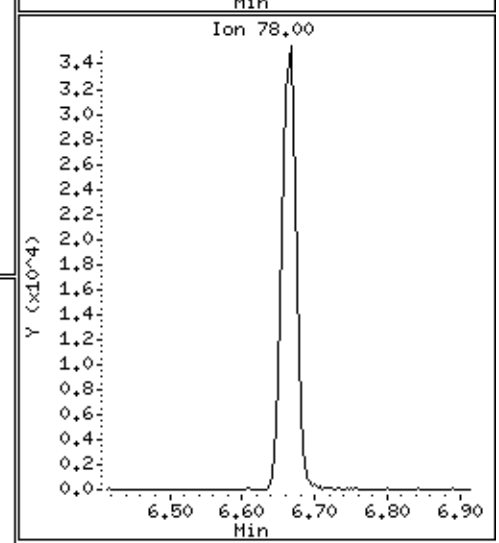
63 1,3-Dichloropropane

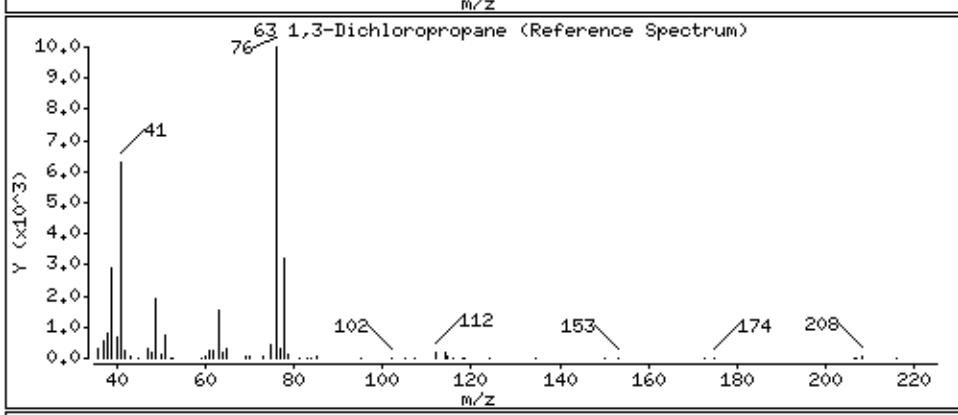
Concentration: 40.8 ppb

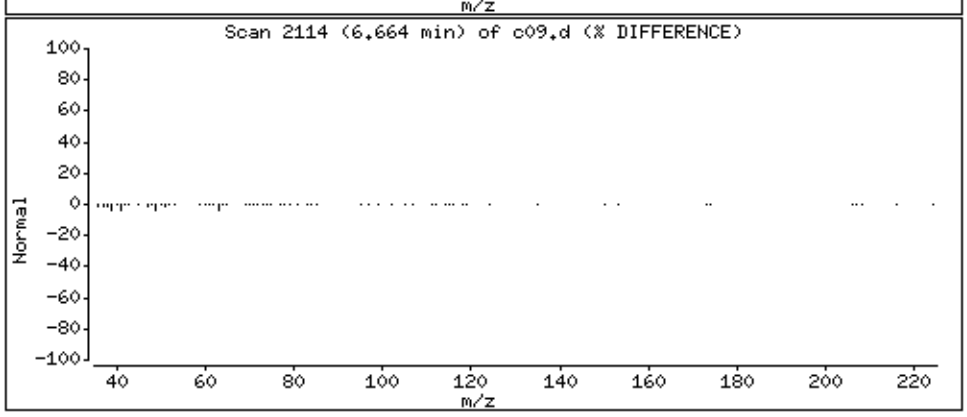












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

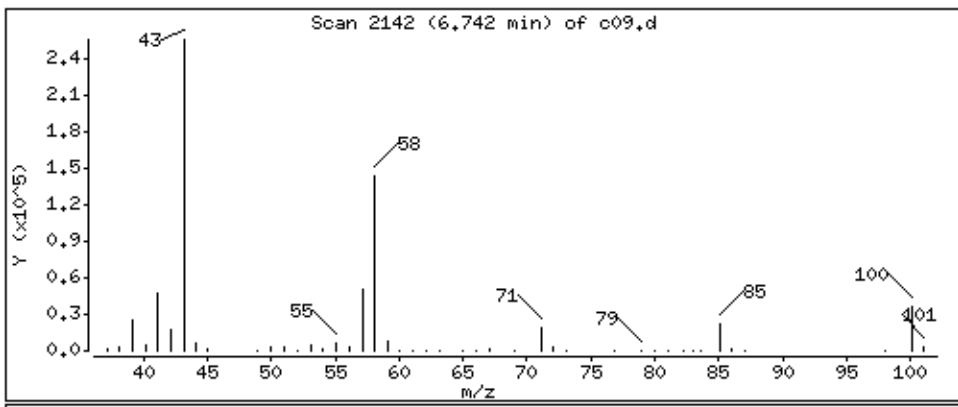
Operator: dae

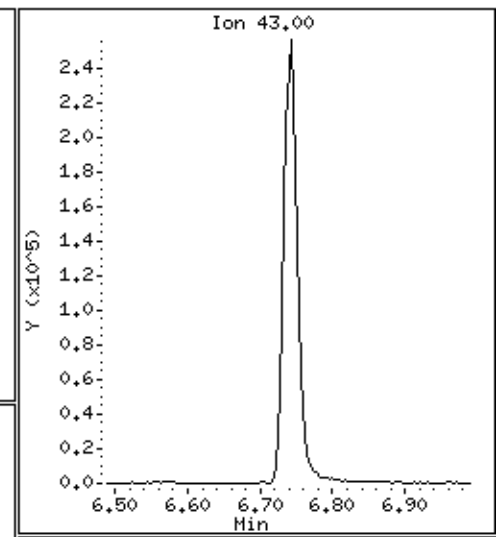
Column phase: DB-624

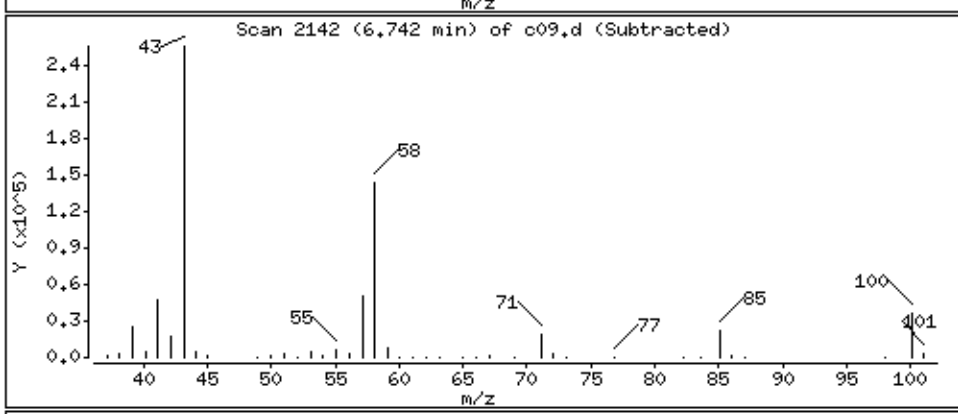
Column diameter: 0.18

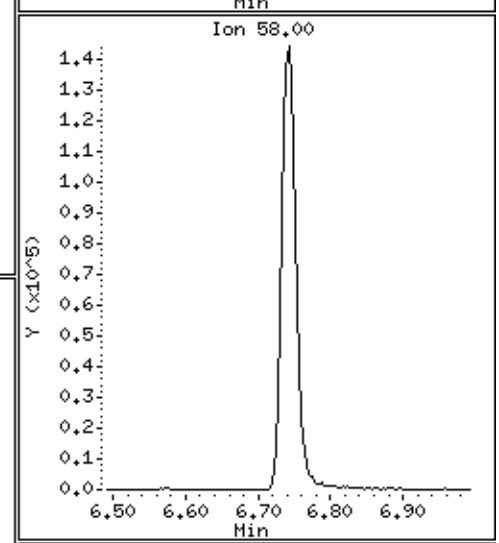
64 2-Hexanone

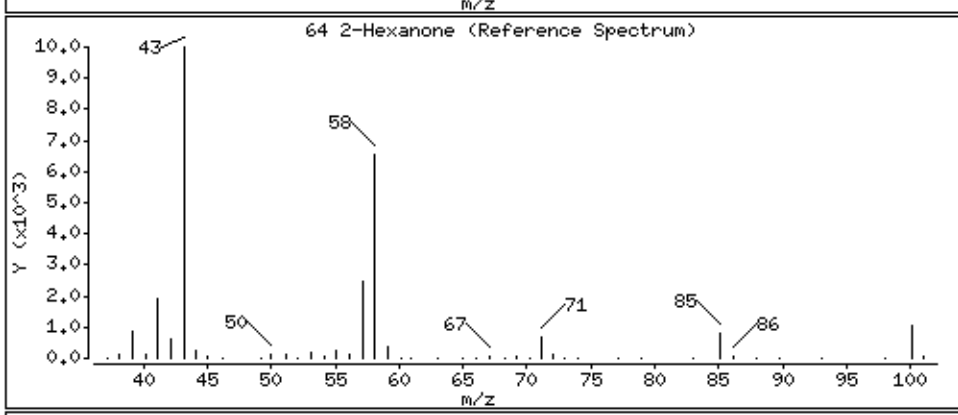
Concentration: 198 ppb

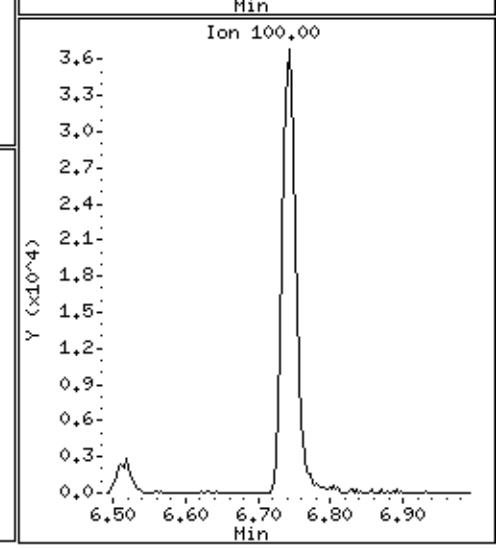


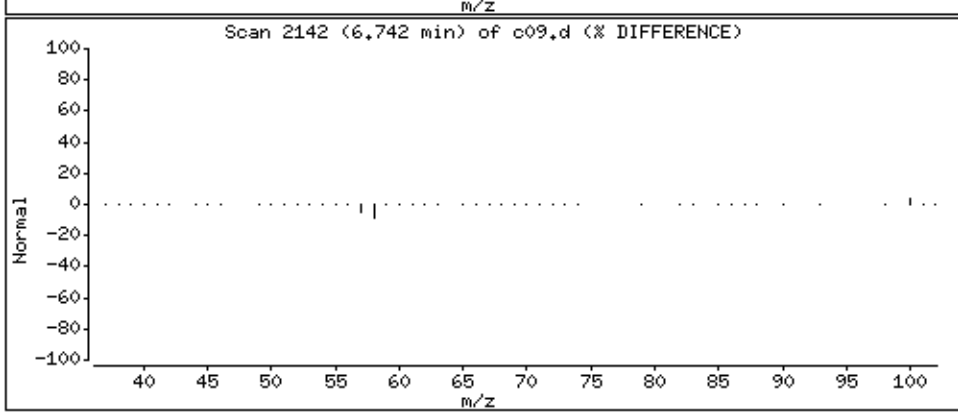












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

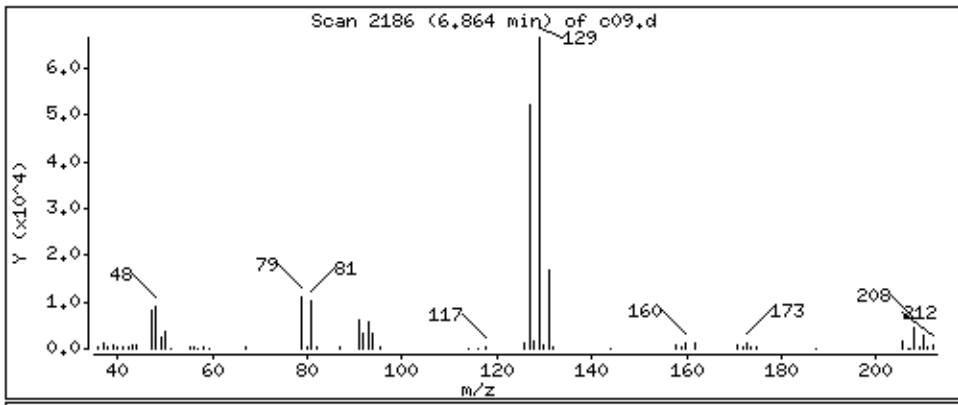
Operator: dae

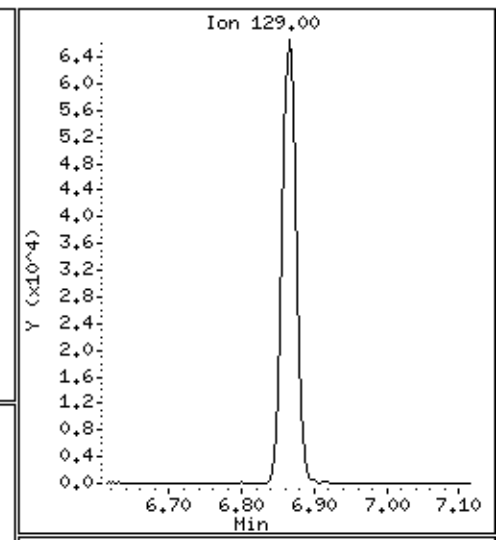
Column phase: DB-624

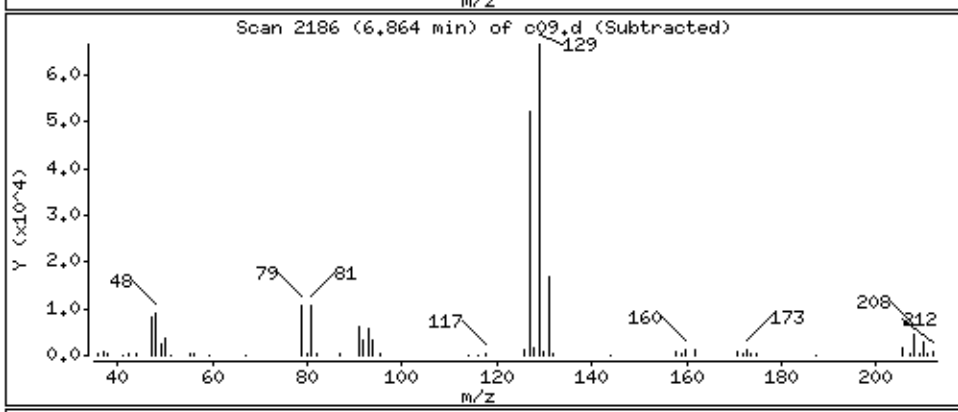
Column diameter: 0.18

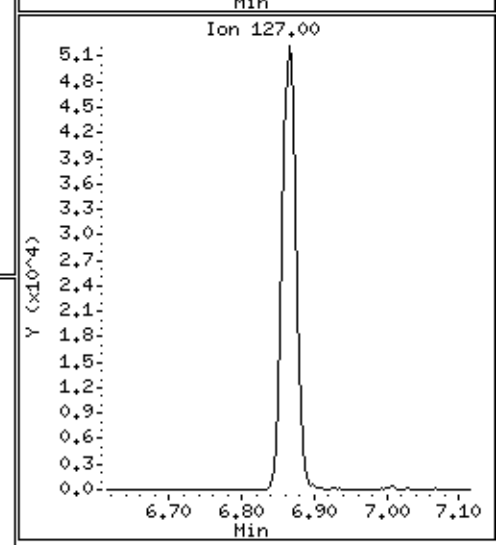
65 Dibromochloromethane

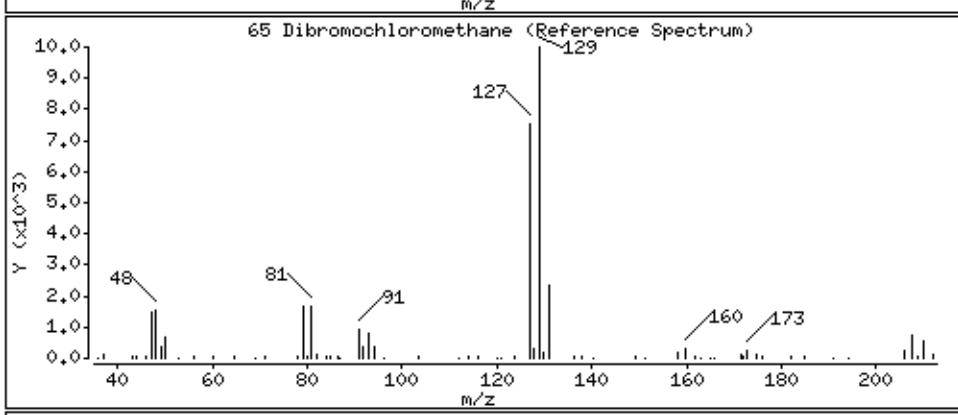
Concentration: 35.8 ppb

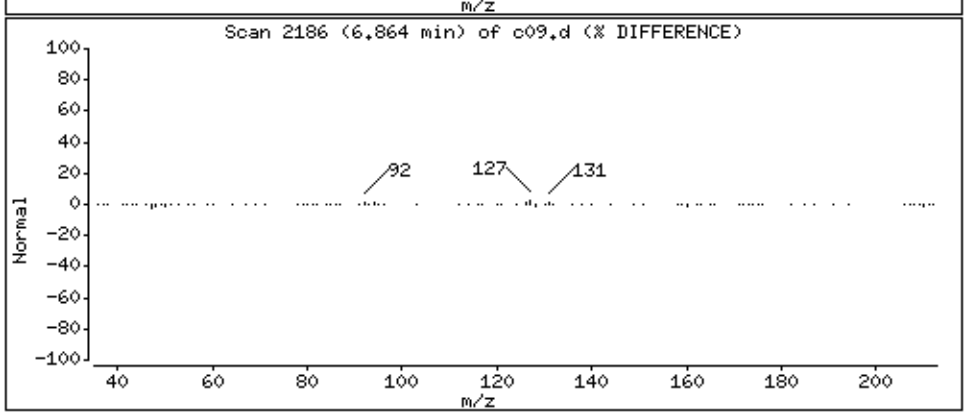












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

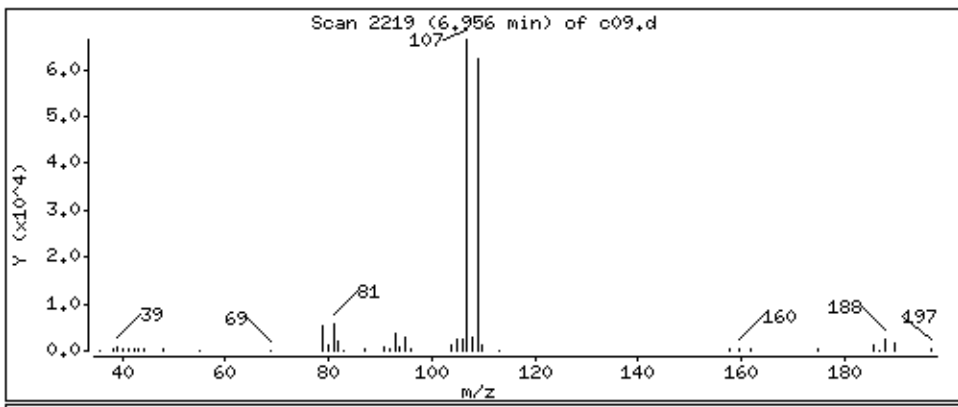
Operator: dae

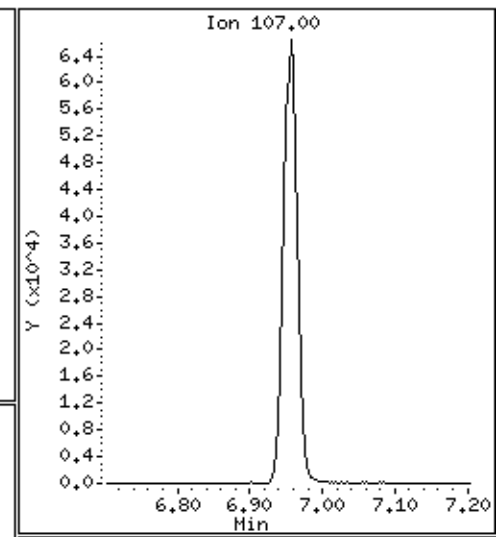
Column phase: DB-624

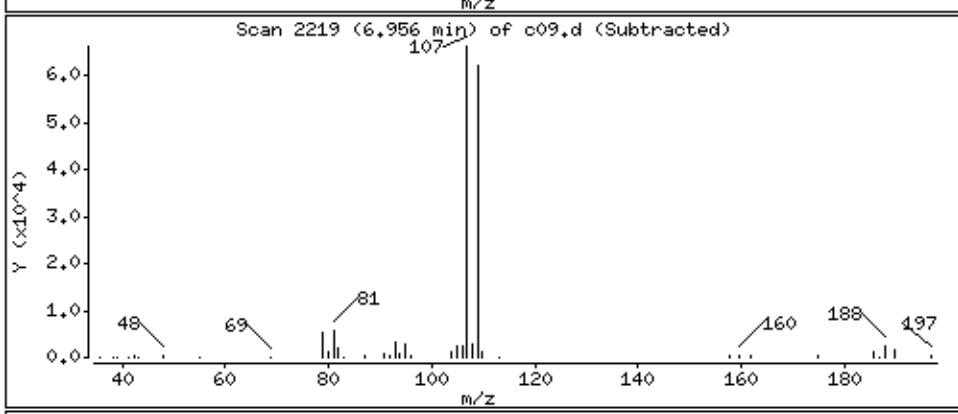
Column diameter: 0.18

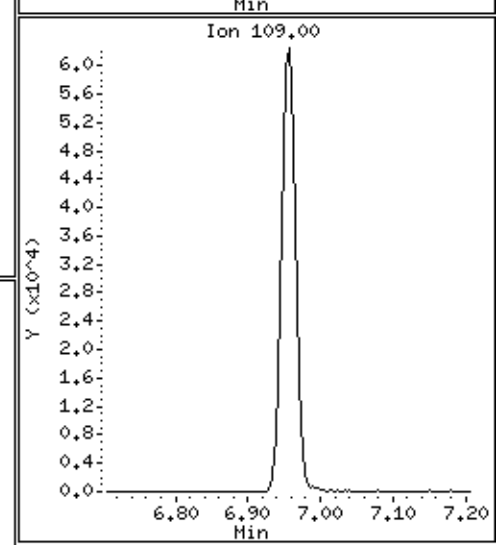
66 1,2-Dibromoethane

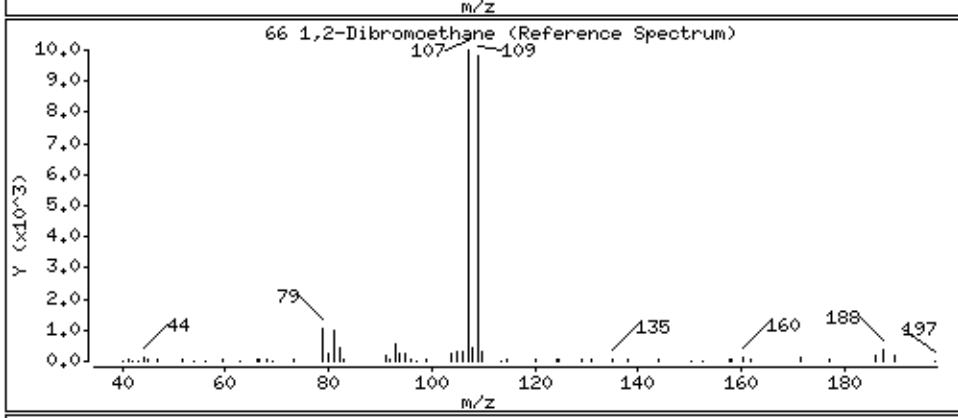
Concentration: 39.4 ppb

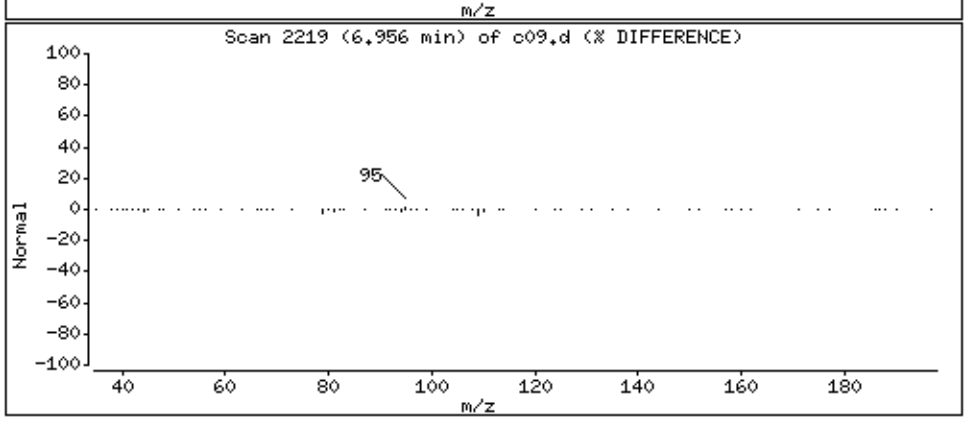












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

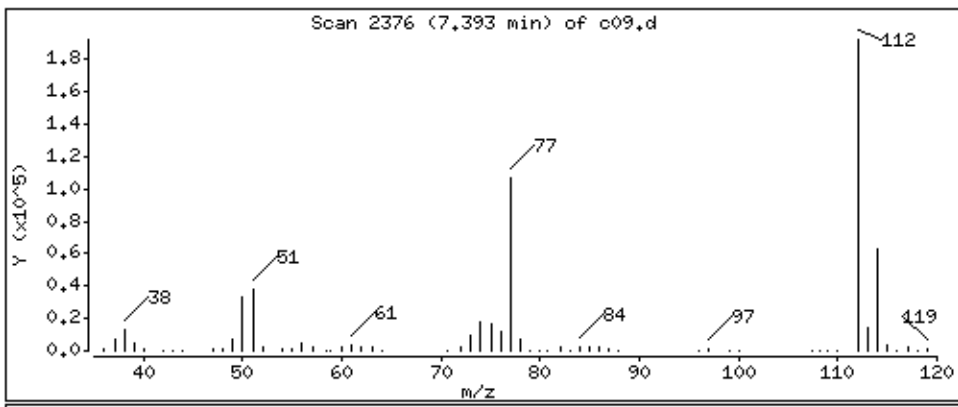
Operator: dae

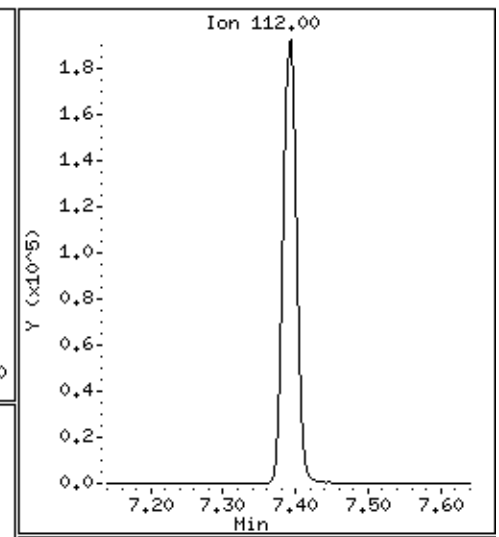
Column phase: DB-624

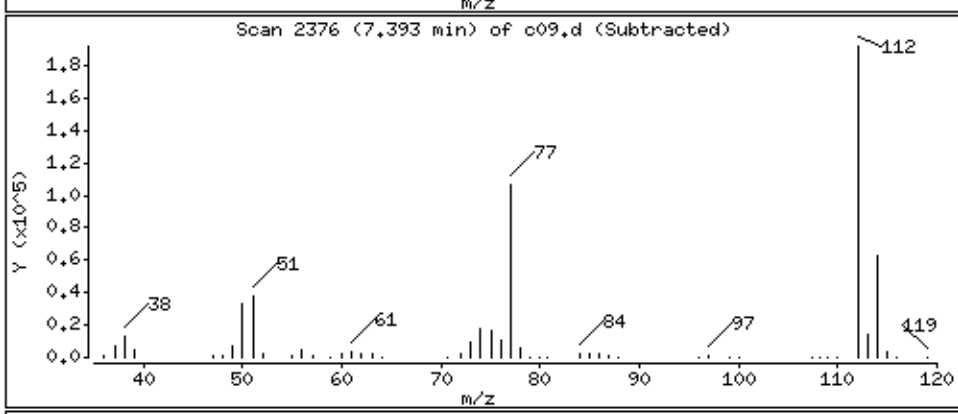
Column diameter: 0.18

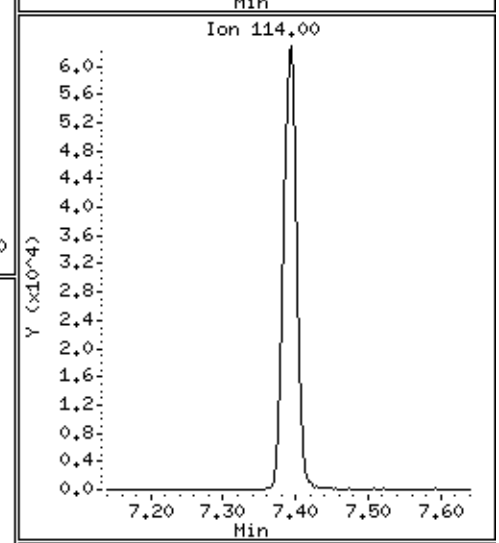
68 Chlorobenzene

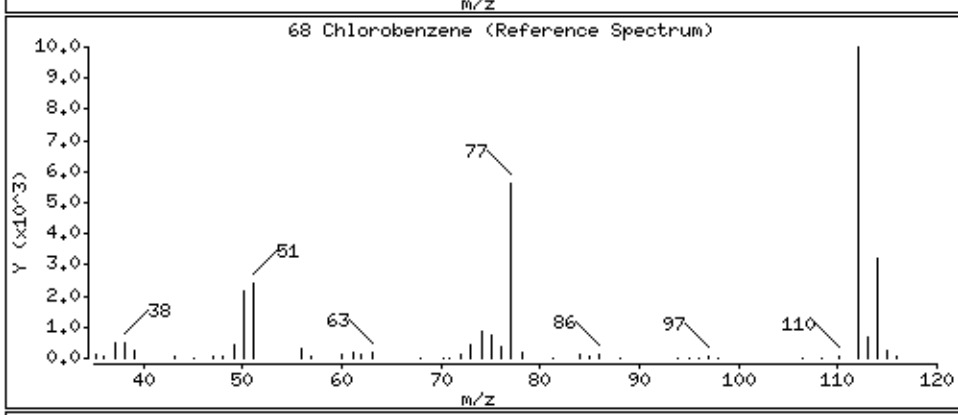
Concentration: 39.4 ppb

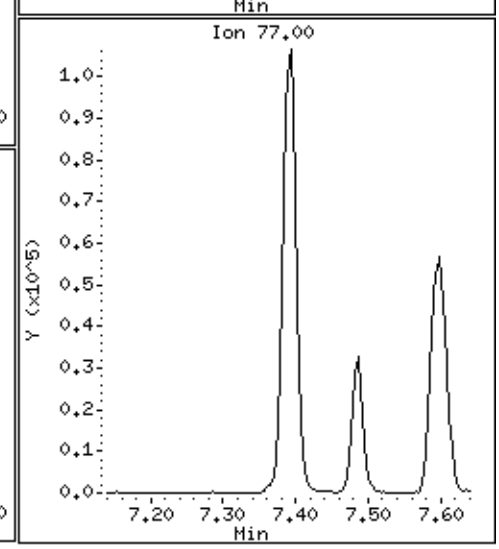


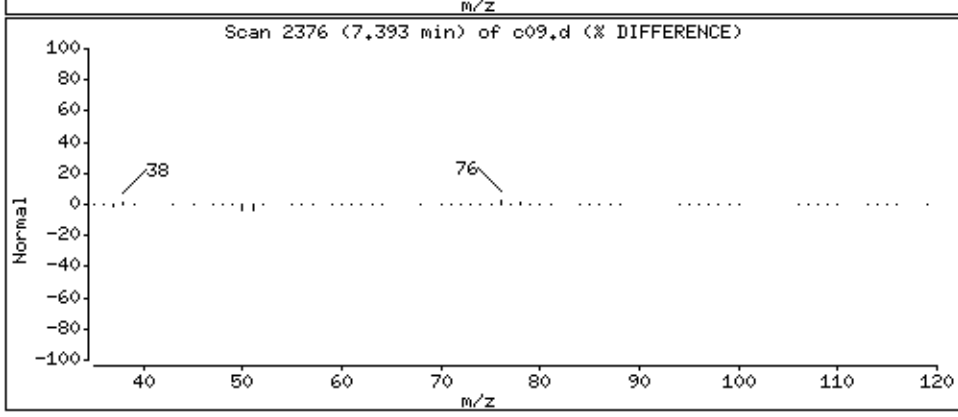












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

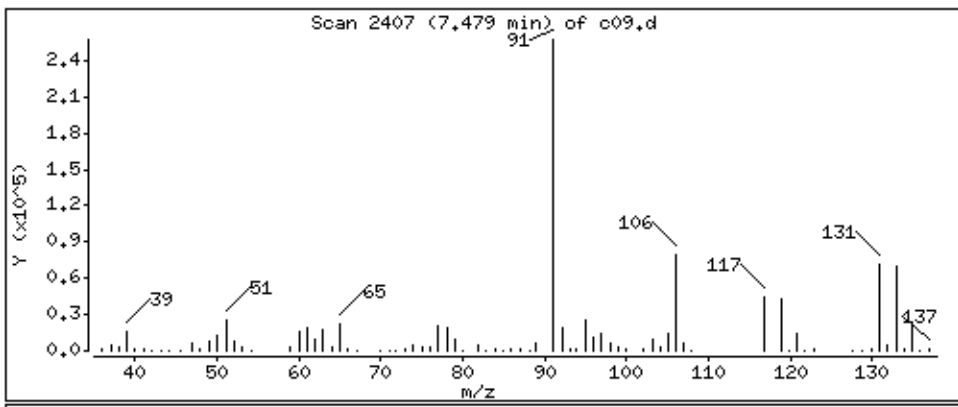
Operator: dae

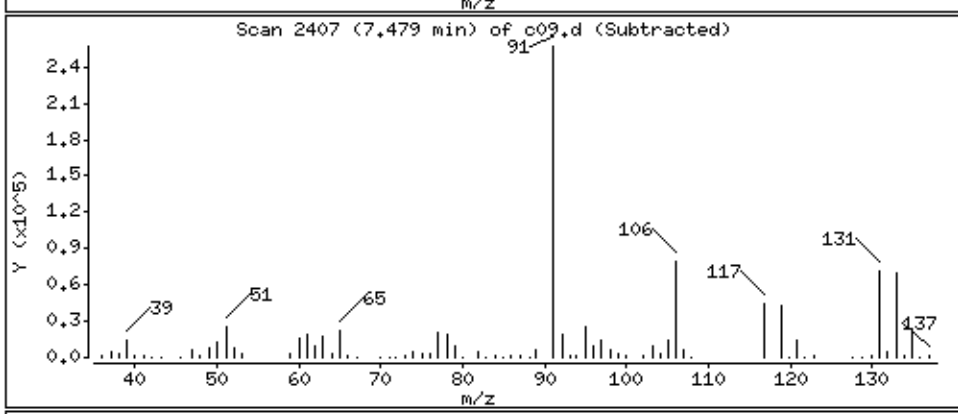
Column phase: DB-624

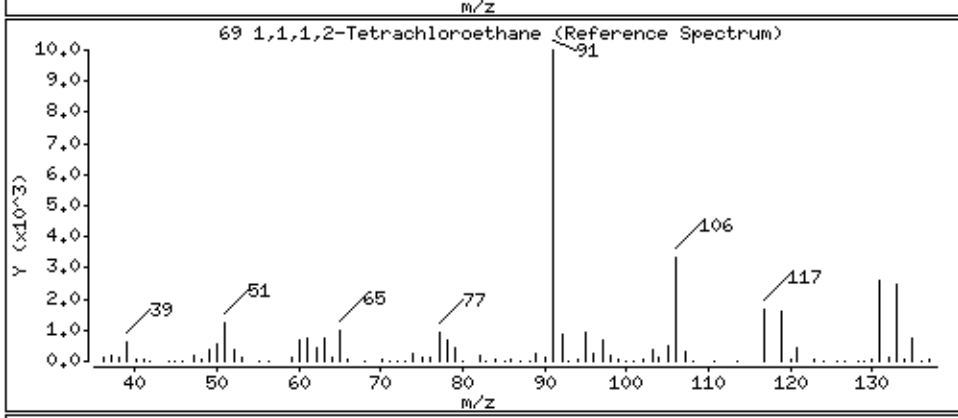
Column diameter: 0.18

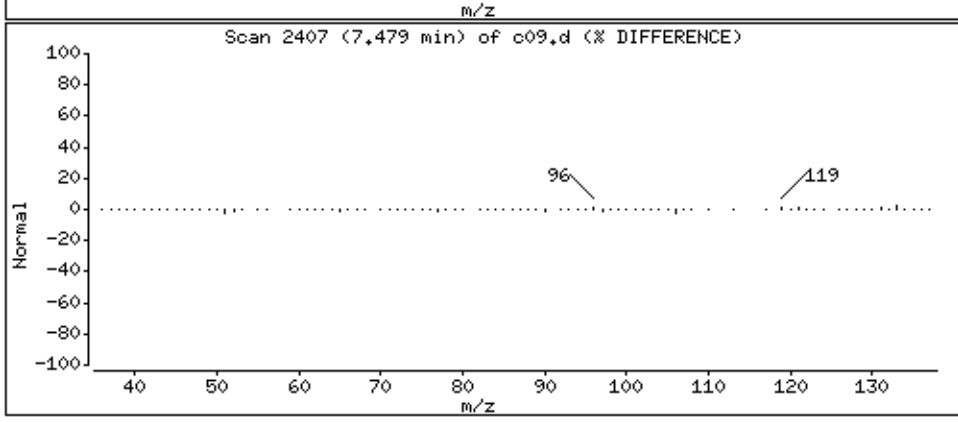
69 1,1,1,2-Tetrachloroethane

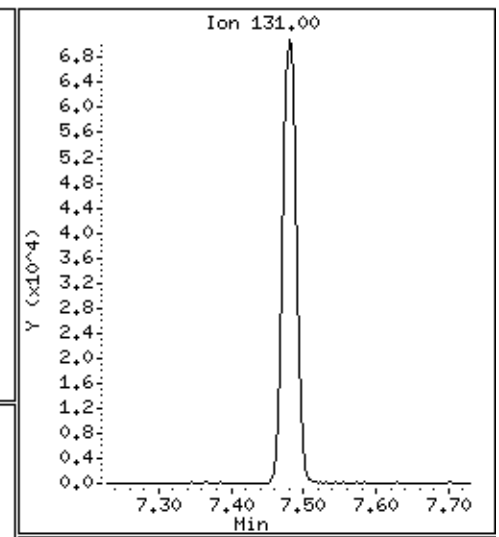
Concentration: 38.8 ppb

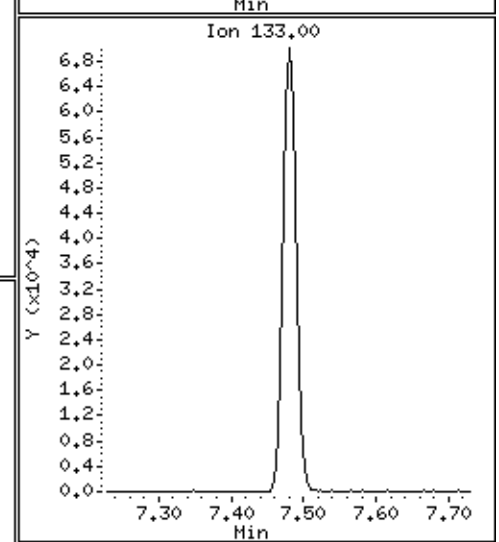


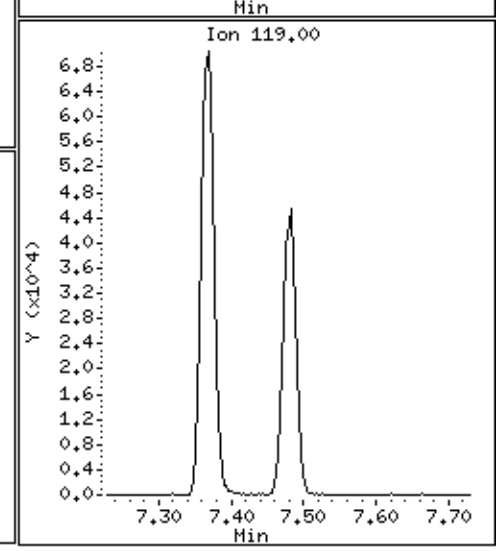












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

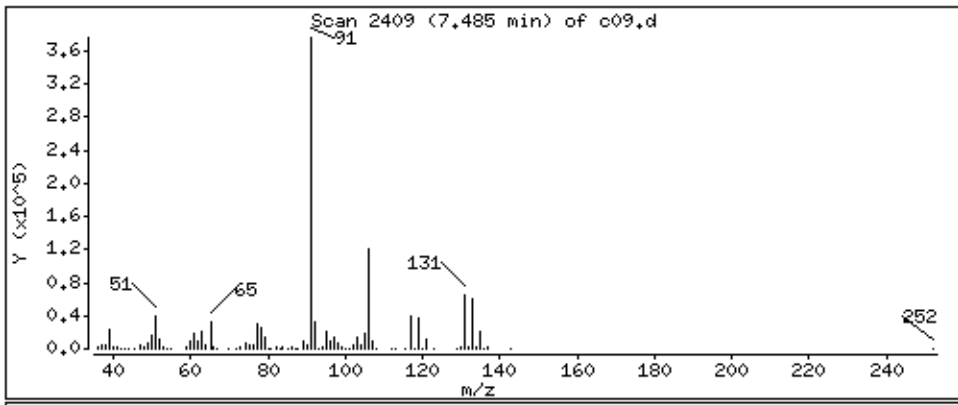
Operator: dae

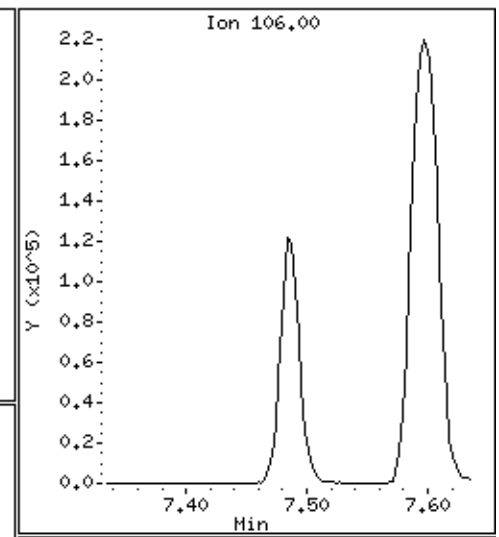
Column phase: DB-624

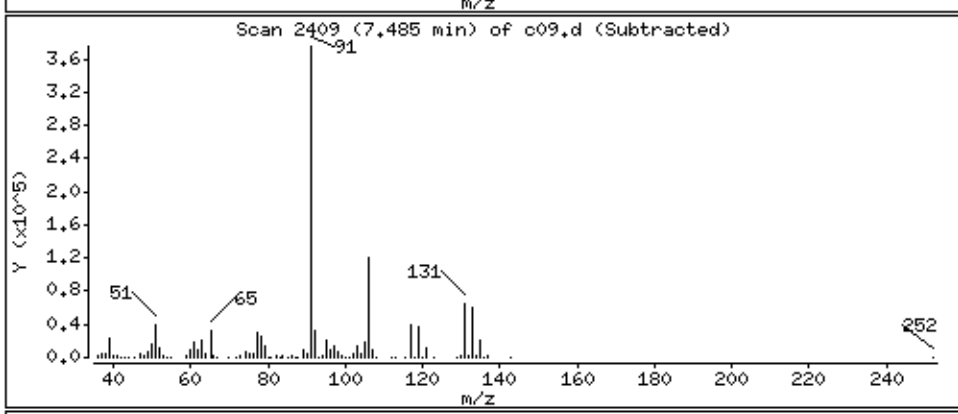
Column diameter: 0.18

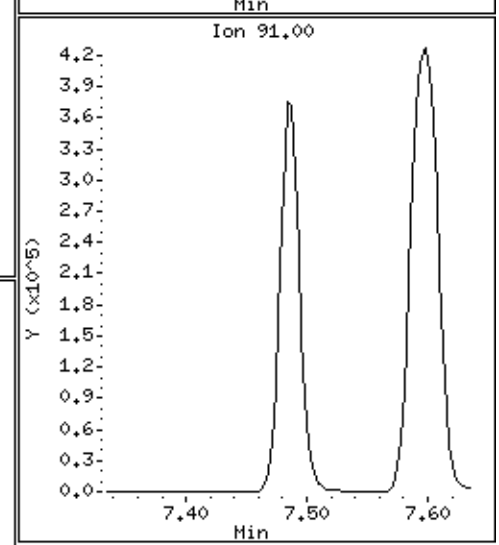
70 Ethylbenzene

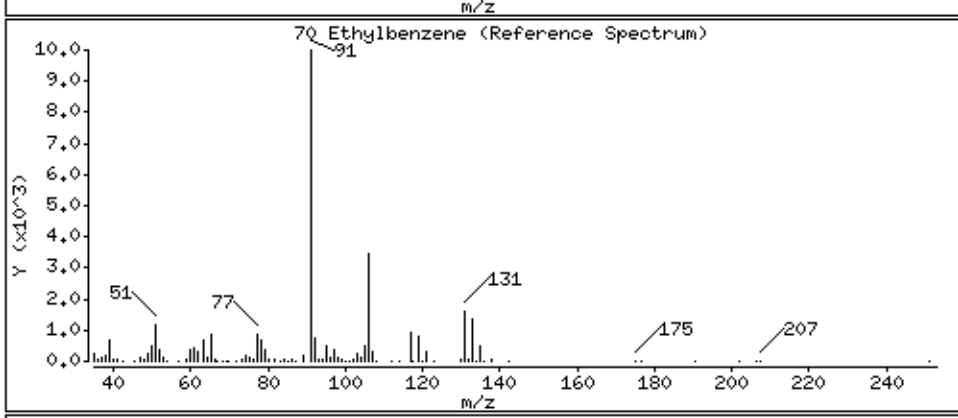
Concentration: 42.3 ppb

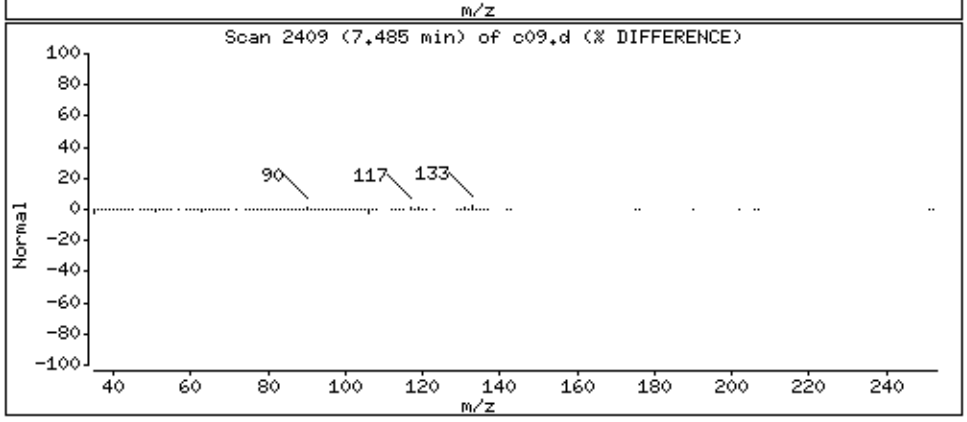












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

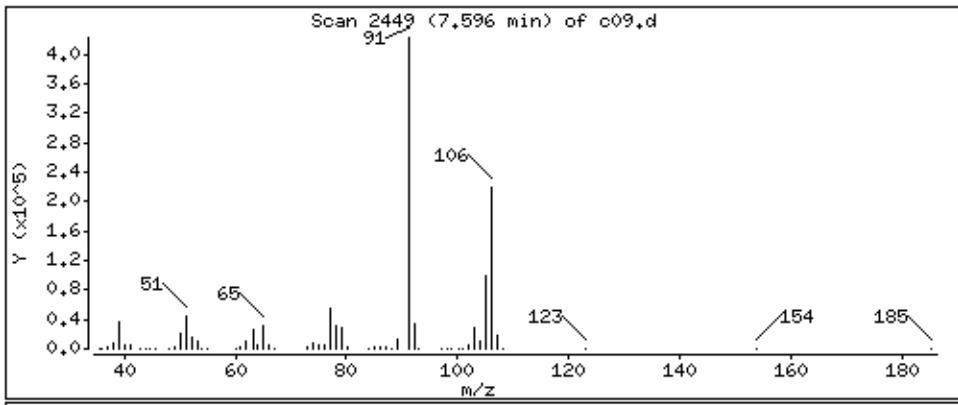
Operator: dae

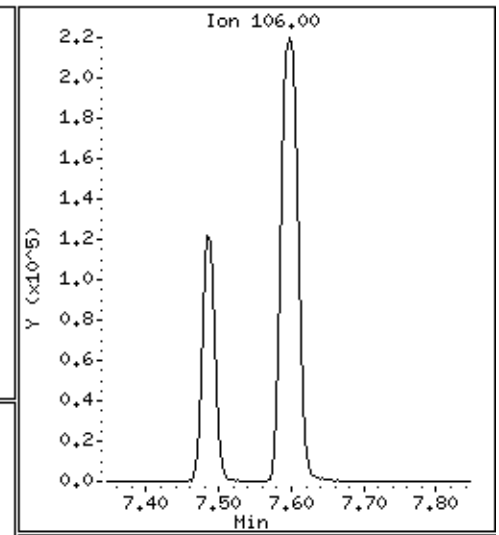
Column phase: DB-624

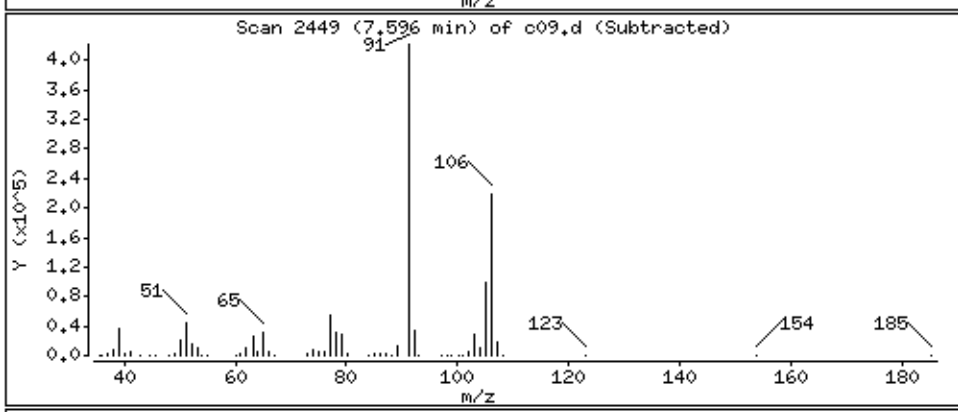
Column diameter: 0.18

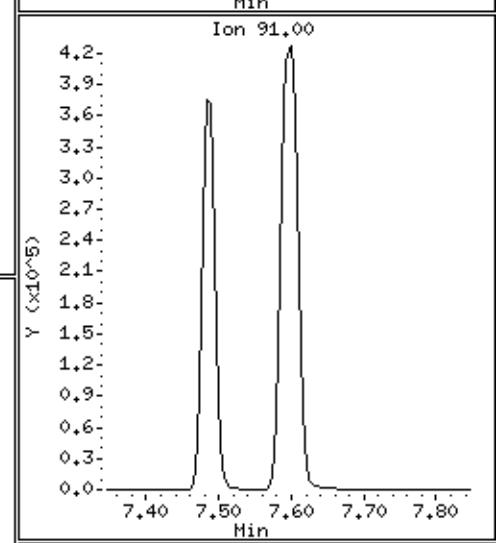
71 m&p-Xylene

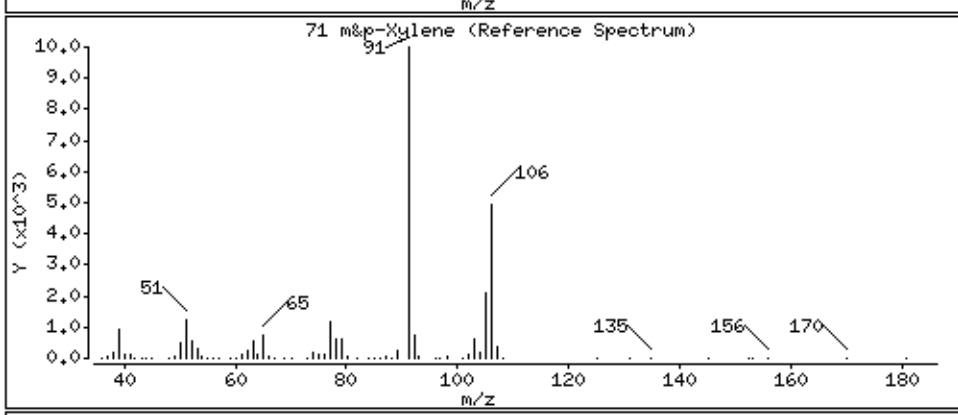
Concentration: 87.4 ppb

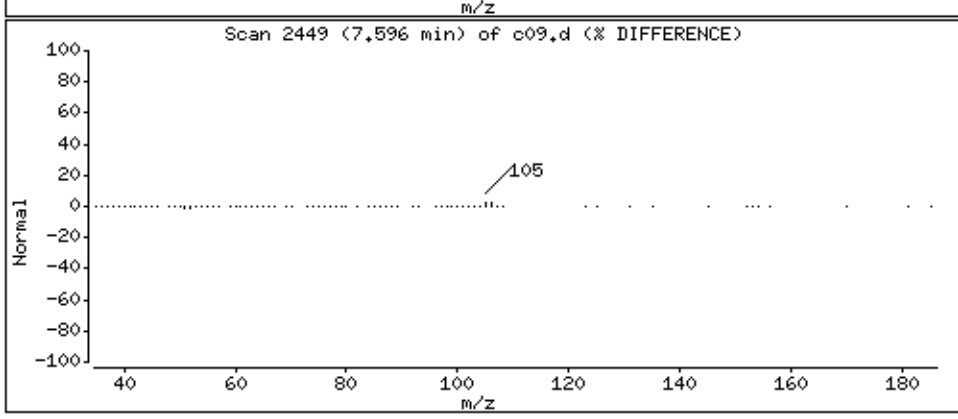


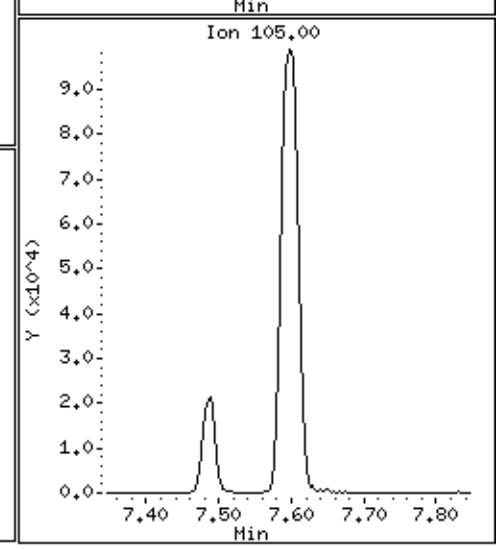












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

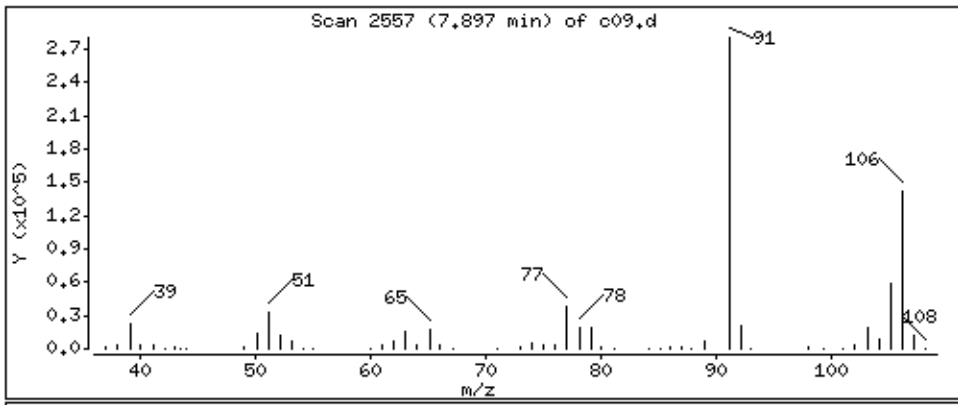
Operator: dae

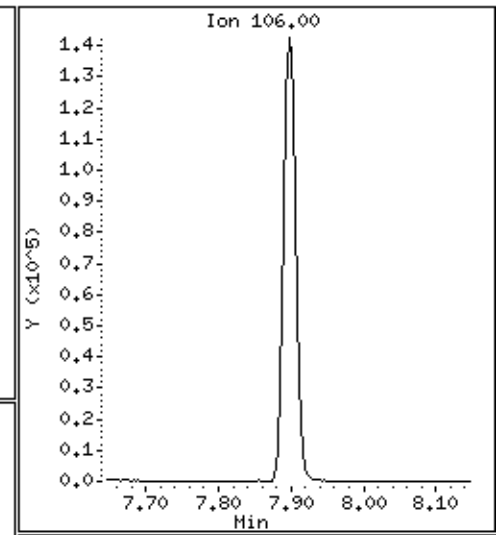
Column phase: DB-624

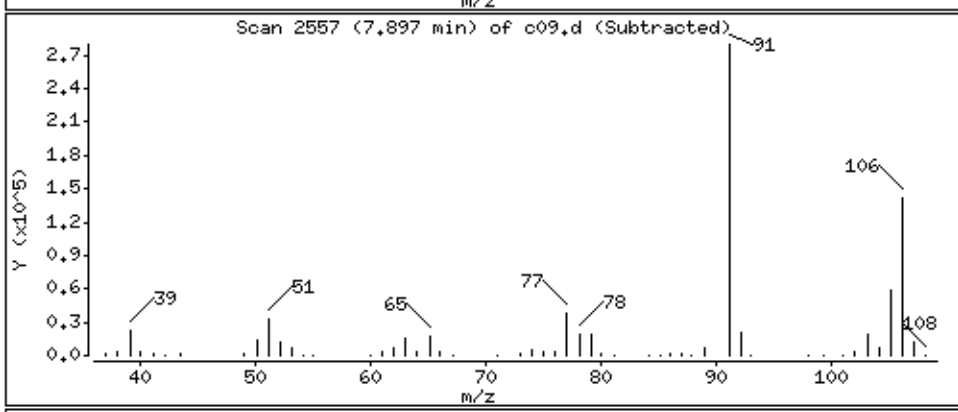
Column diameter: 0.18

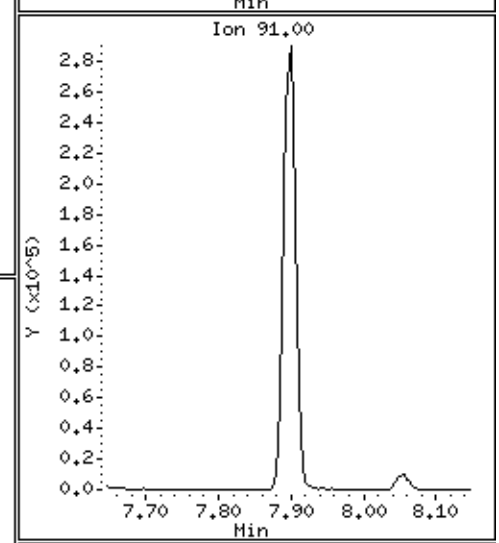
72 o-Xylene

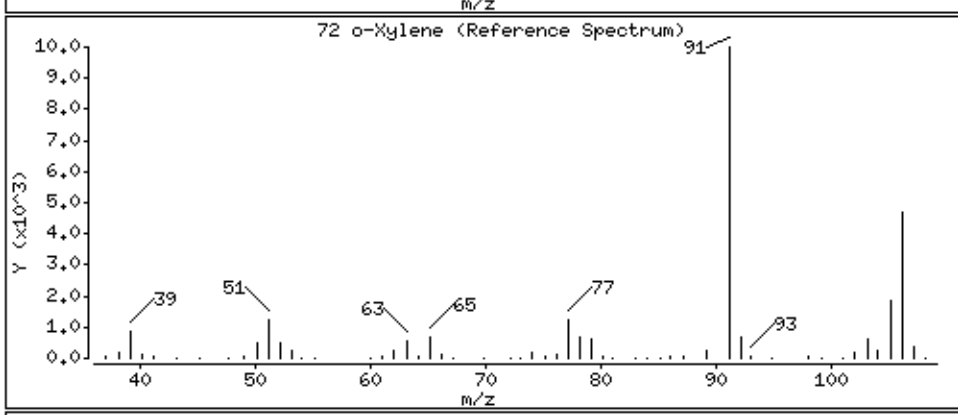
Concentration: 43.6 ppb

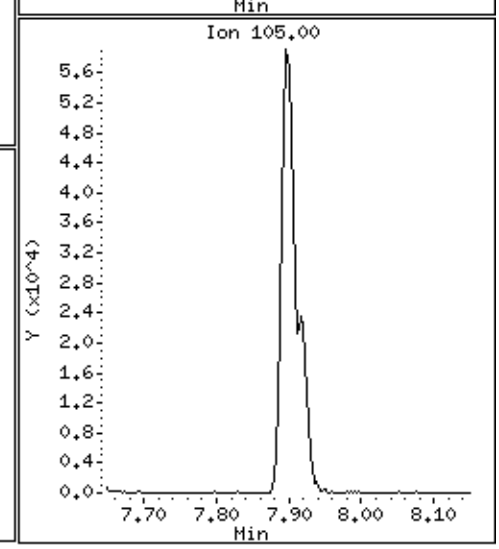


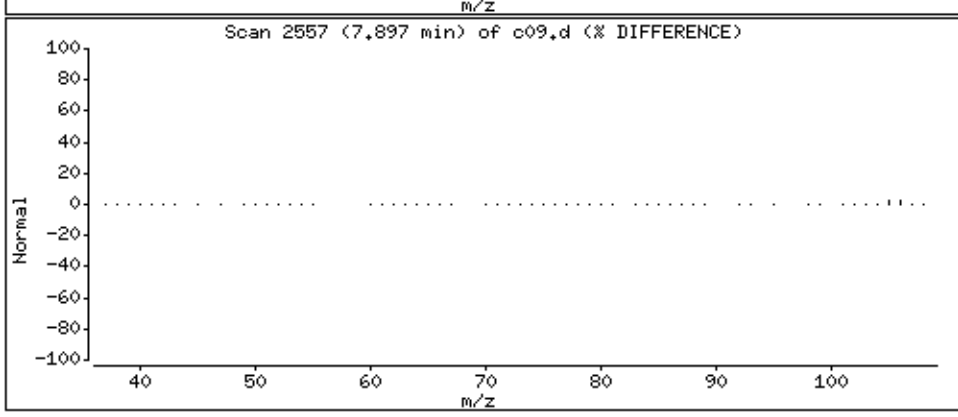












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

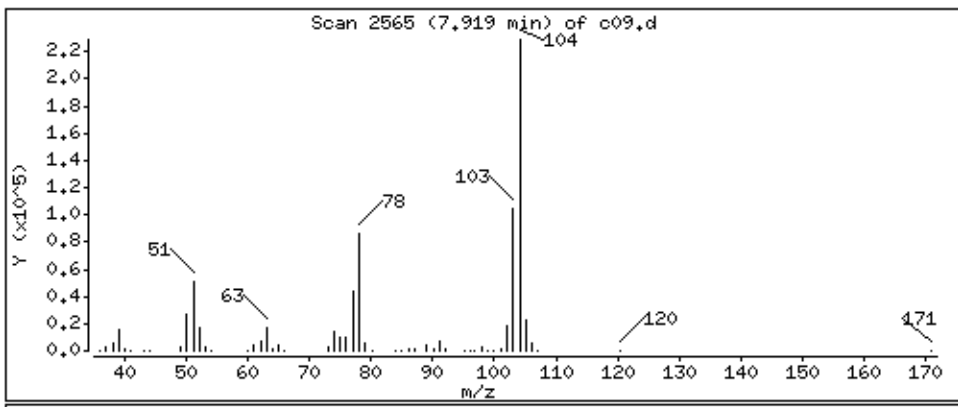
Operator: dae

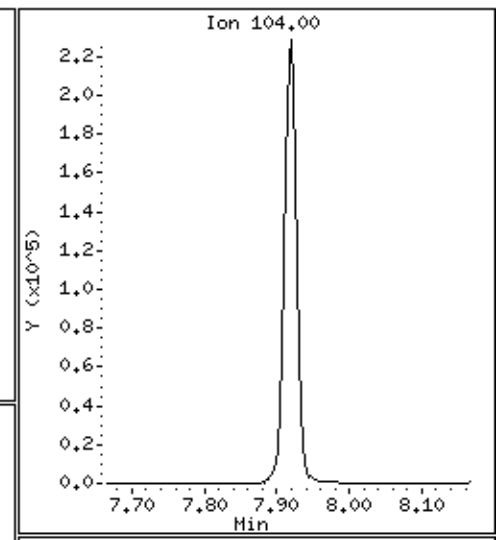
Column phase: DB-624

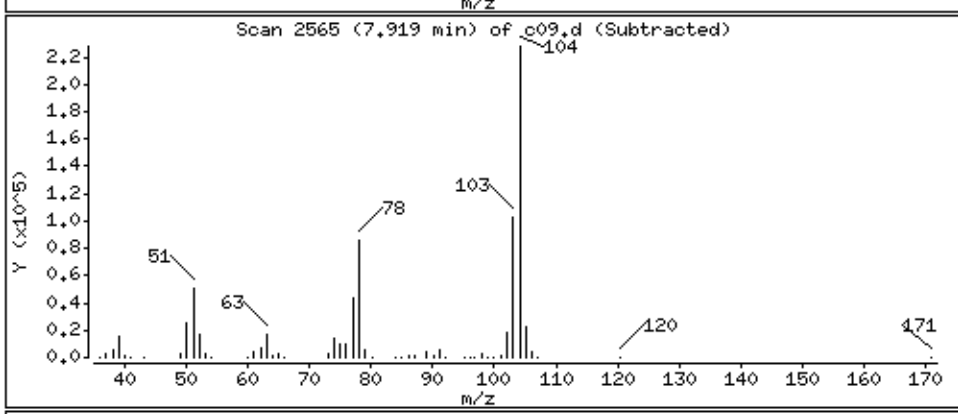
Column diameter: 0.18

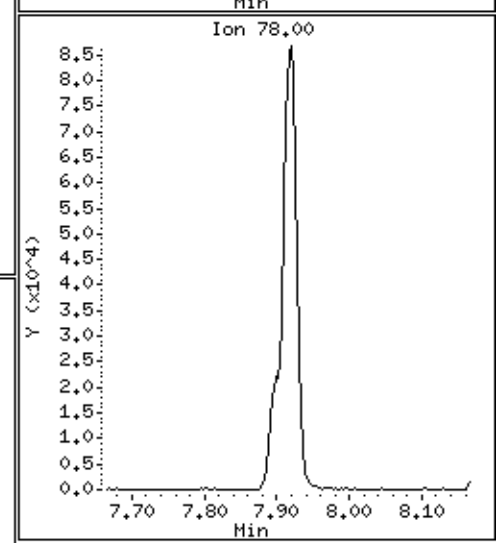
73 Styrene

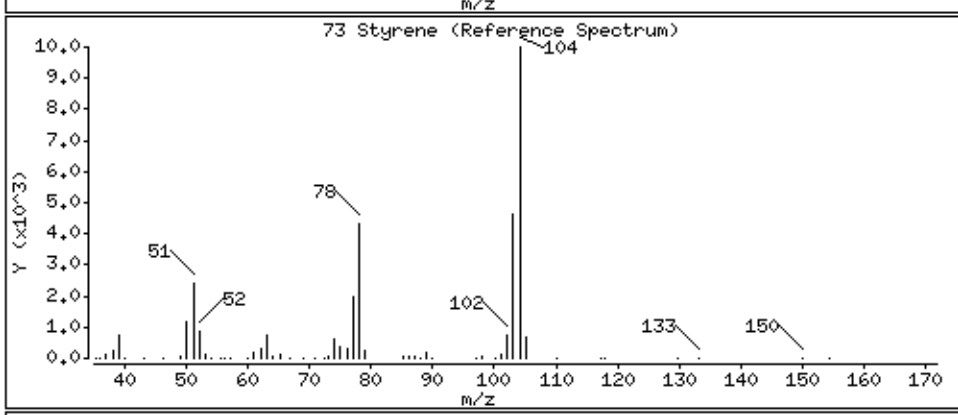
Concentration: 40.4 ppb

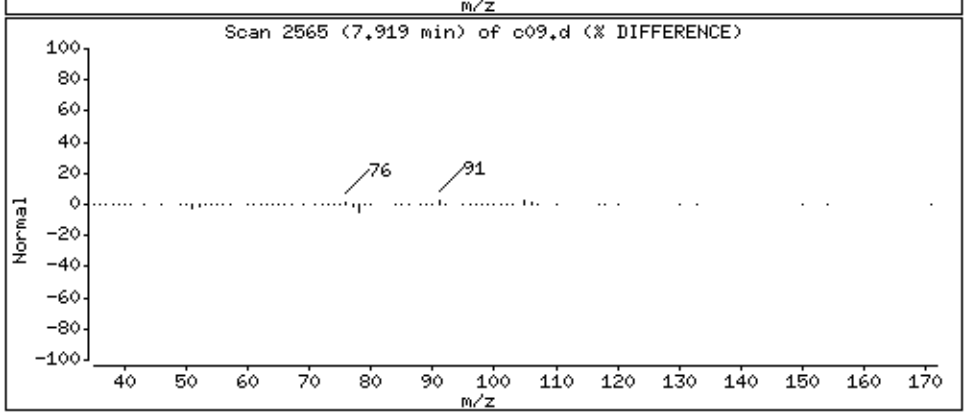












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

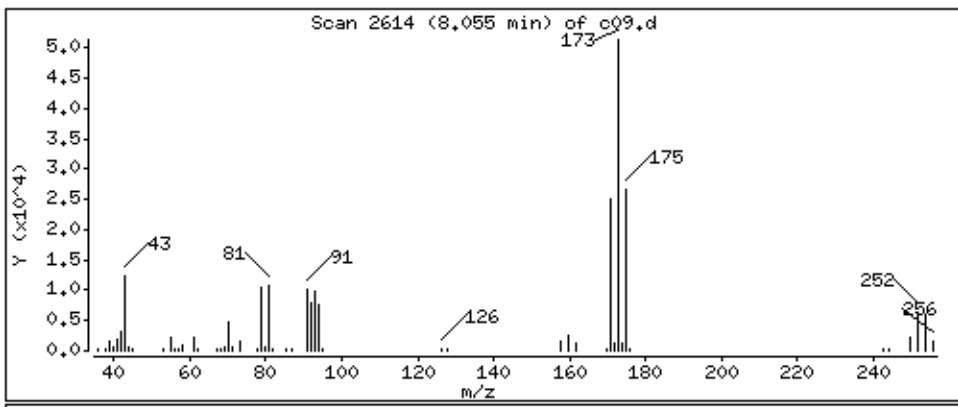
Operator: dae

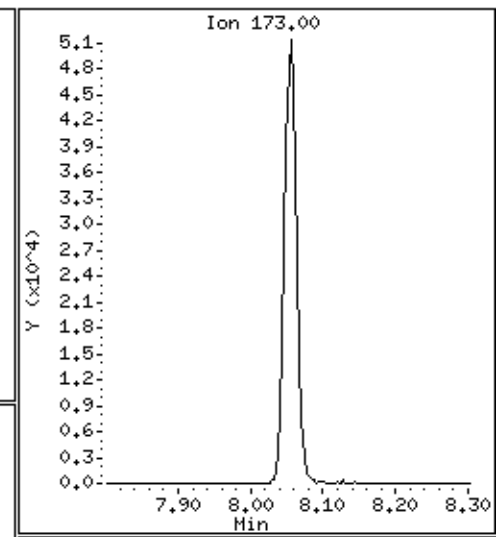
Column phase: DB-624

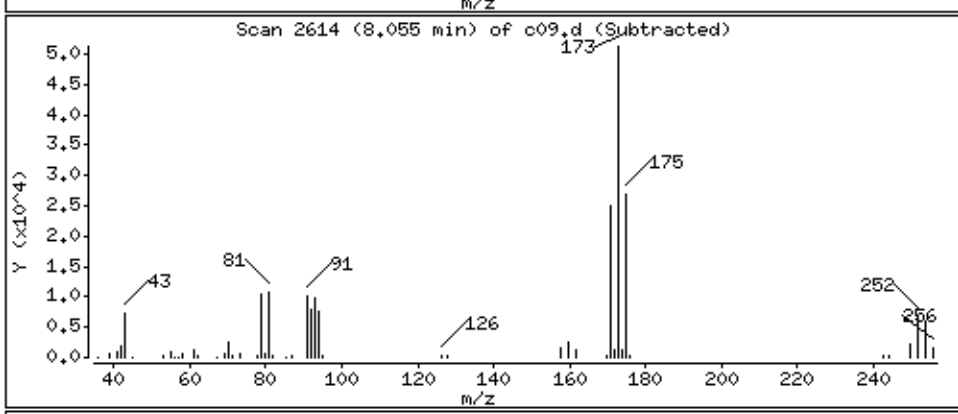
Column diameter: 0.18

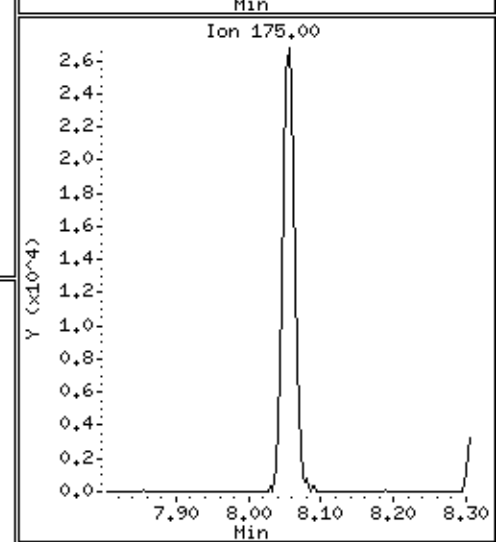
74 Bromoform

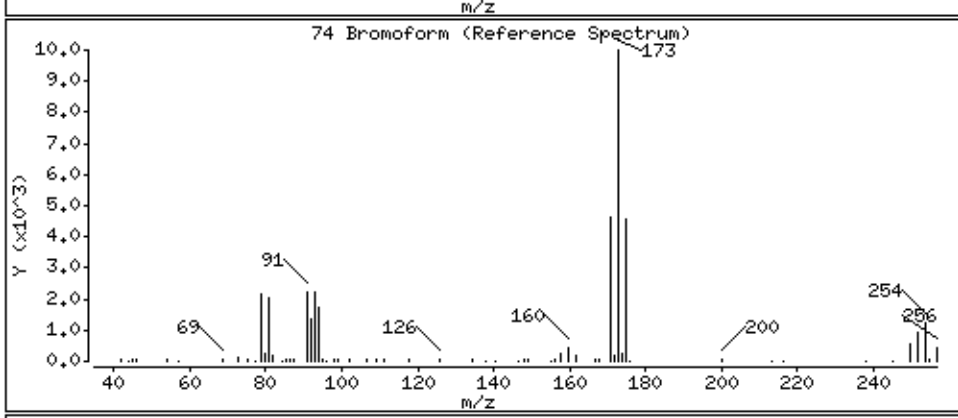
Concentration: 30.6 ppb

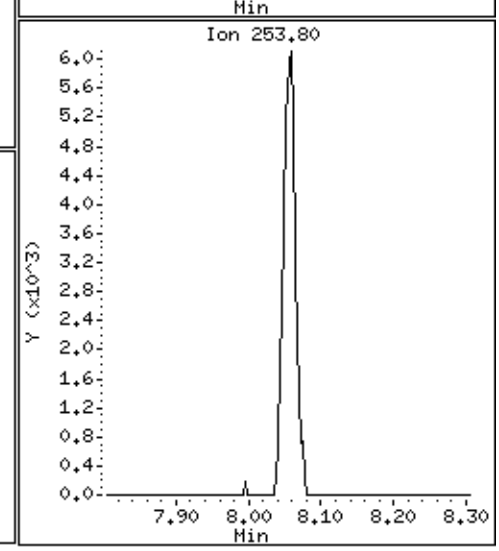


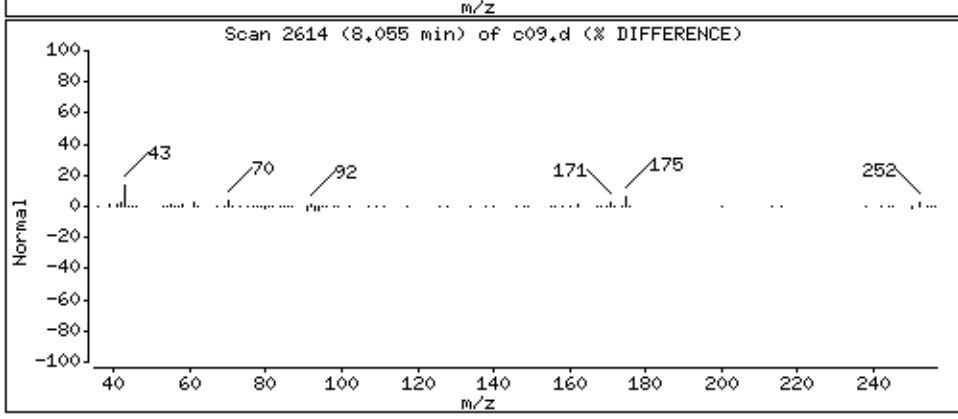












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

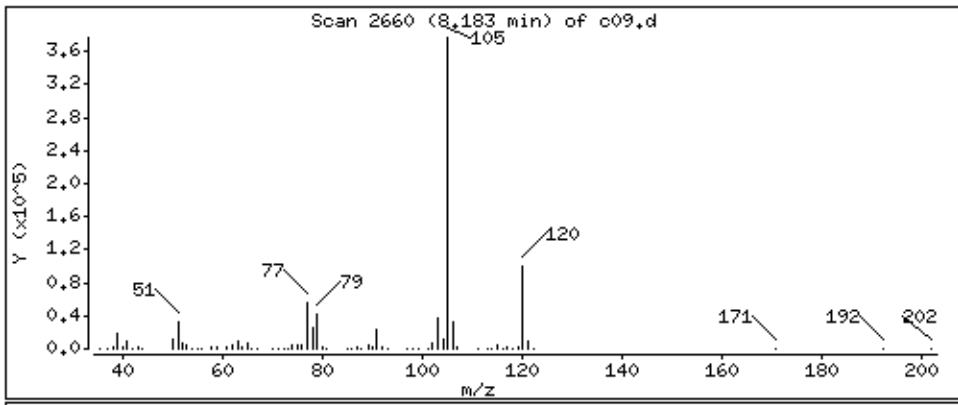
Operator: dae

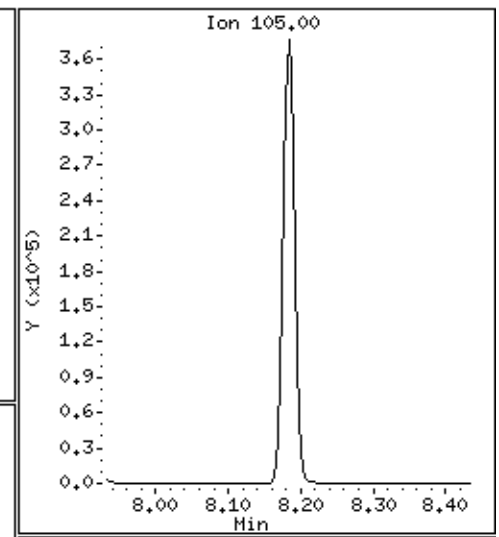
Column phase: DB-624

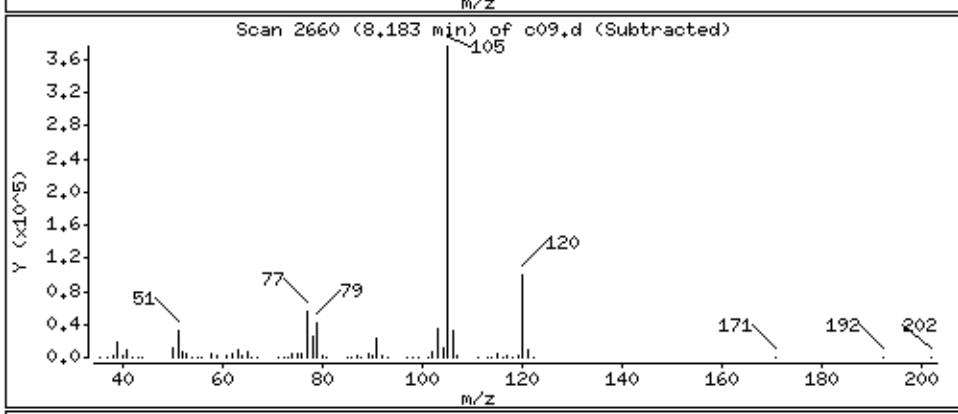
Column diameter: 0.18

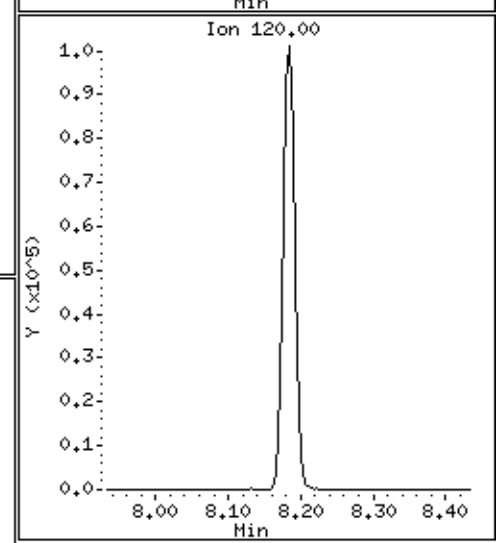
75 Isopropylbenzene

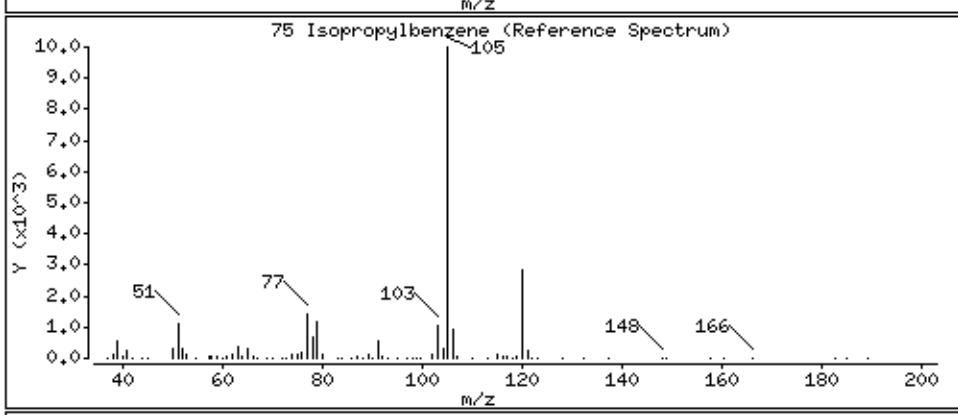
Concentration: 42.5 ppb

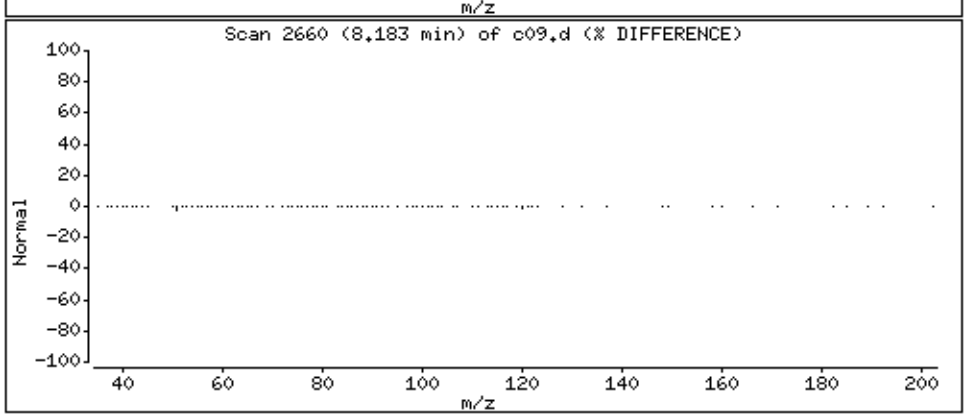












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

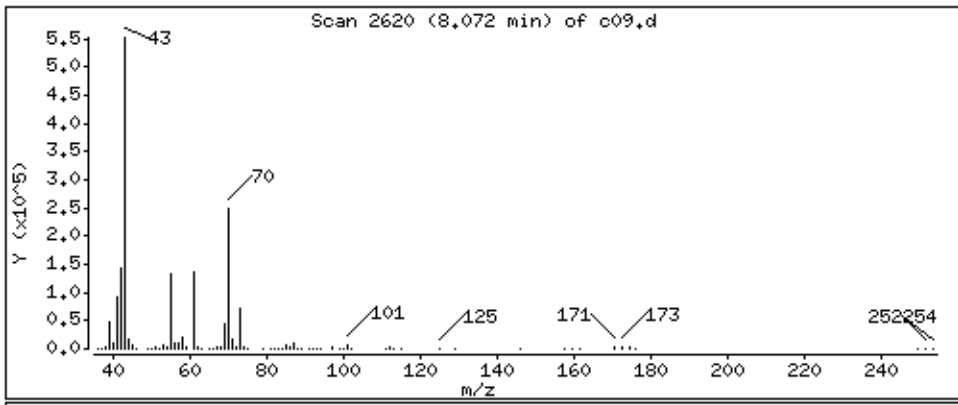
Operator: dae

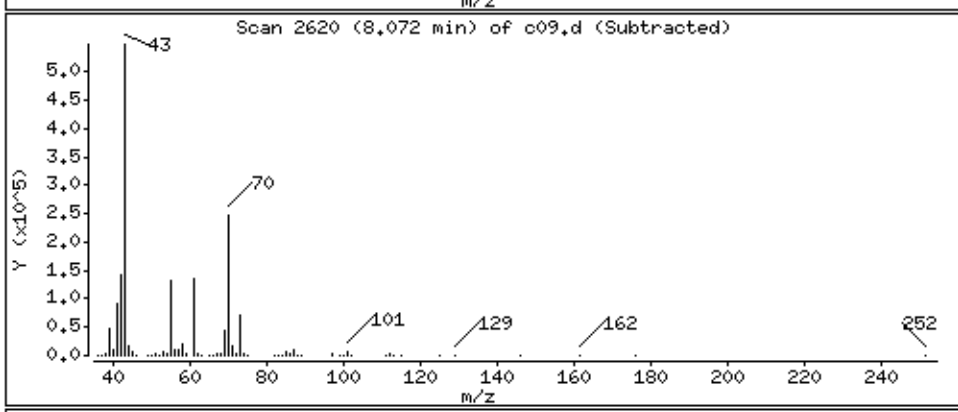
Column phase: DB-624

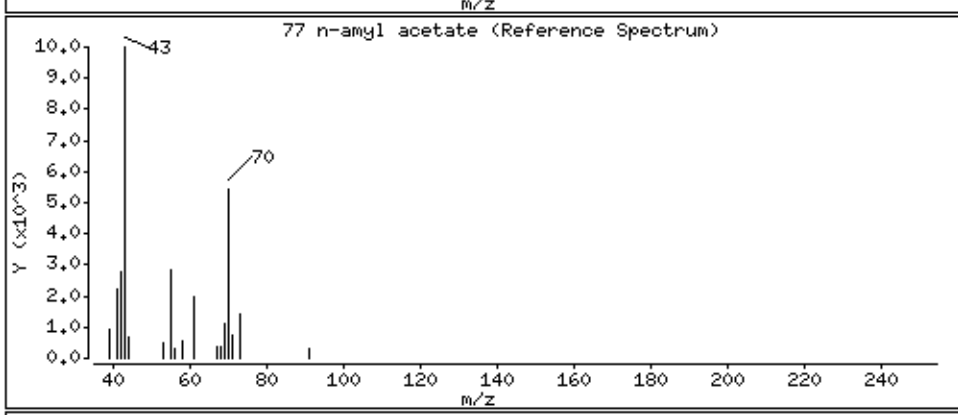
Column diameter: 0.18

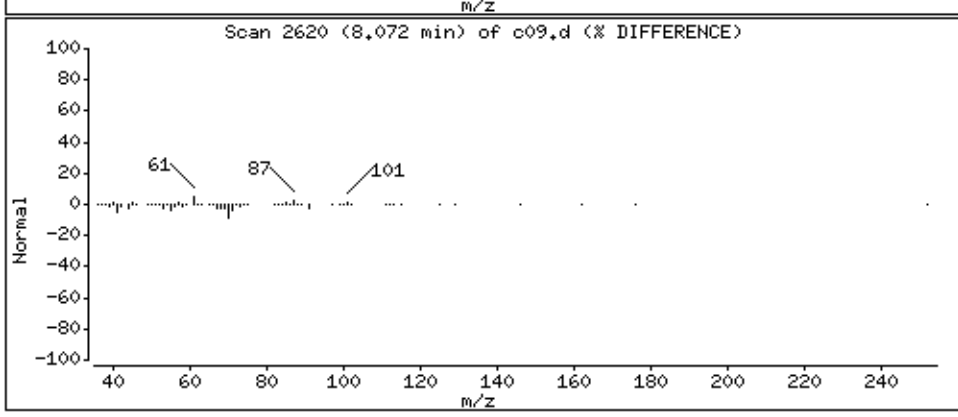
77 n-amyl acetate

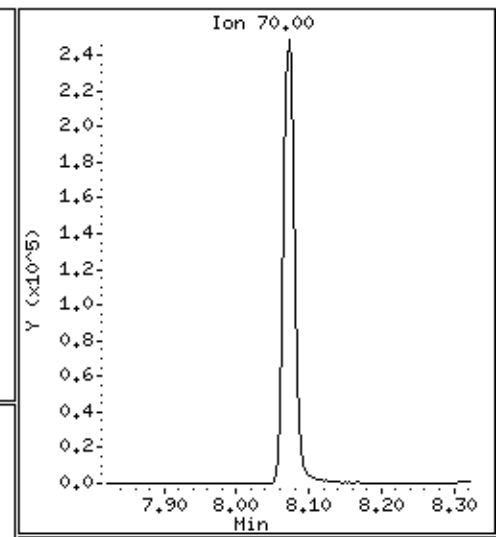
Concentration: 142 ppb

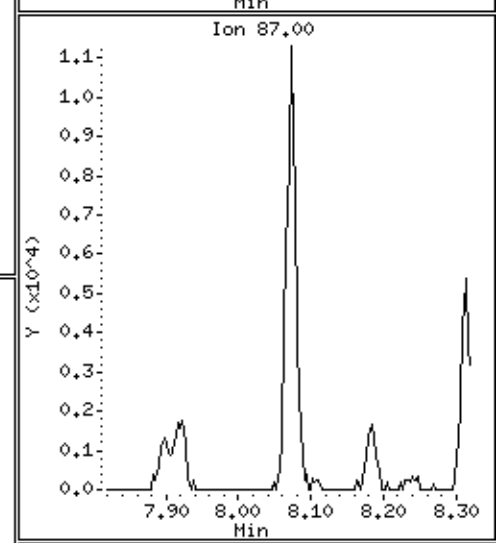


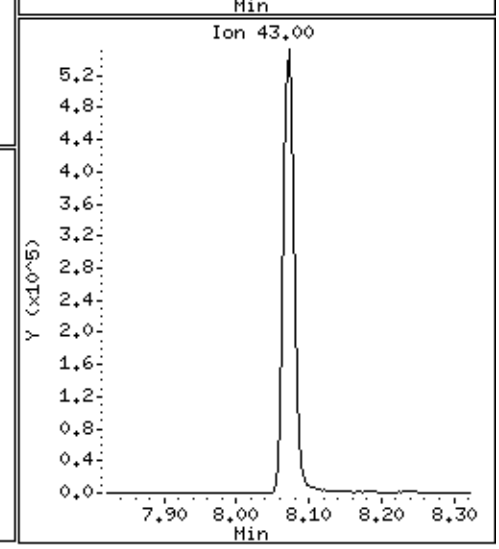












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

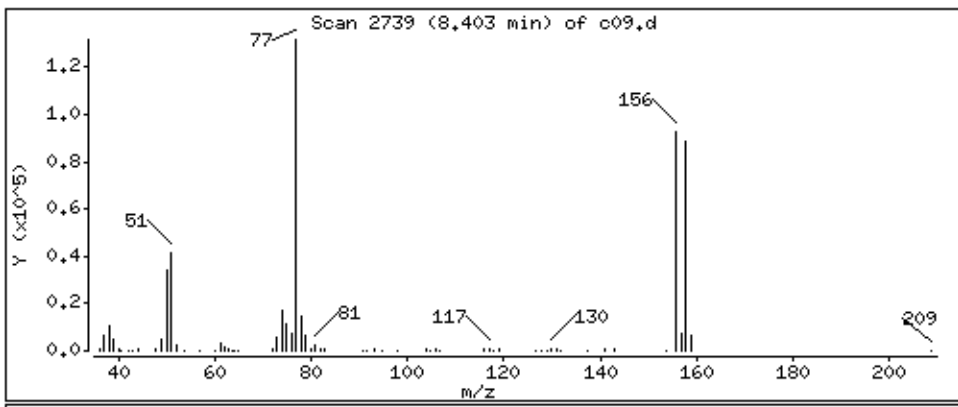
Operator: dae

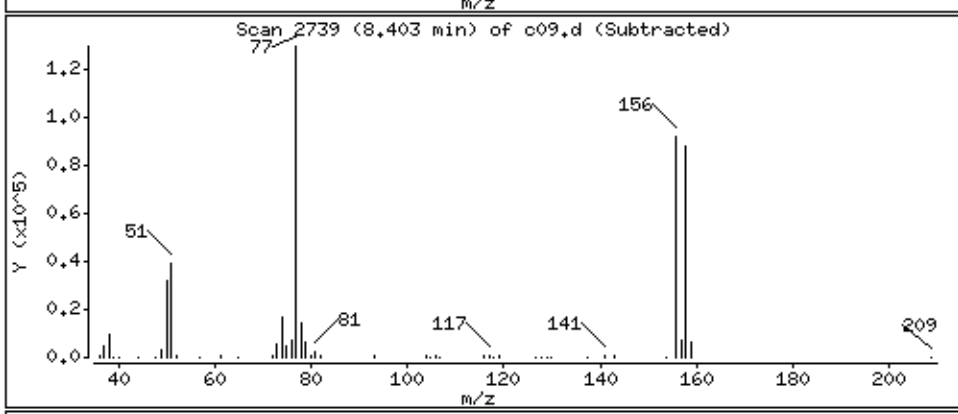
Column phase: DB-624

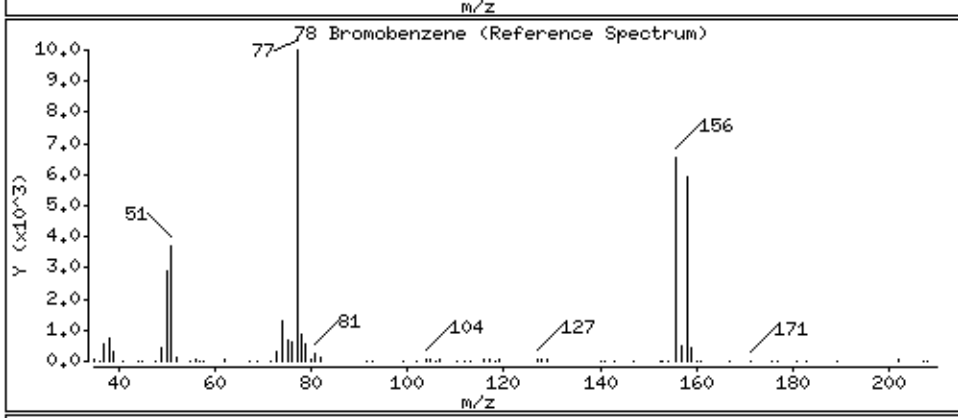
Column diameter: 0.18

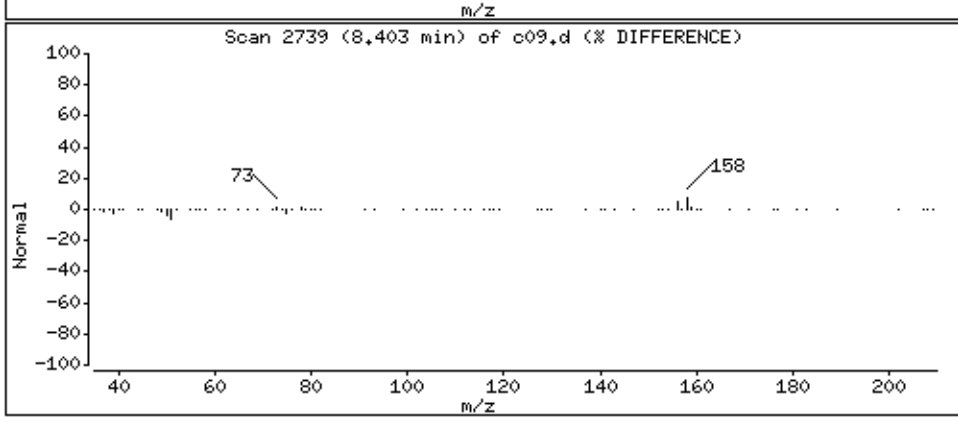
78 Bromobenzene

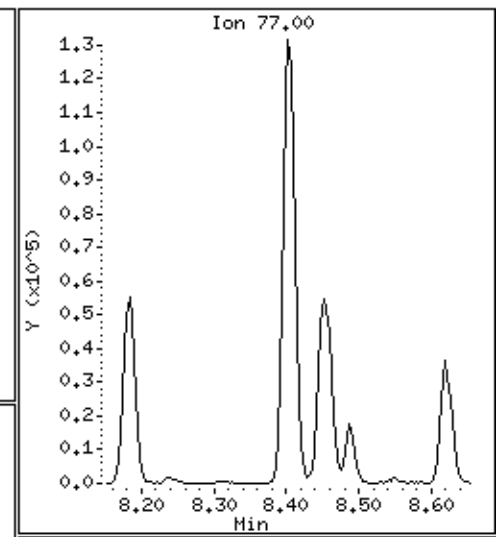
Concentration: 39.1 ppb

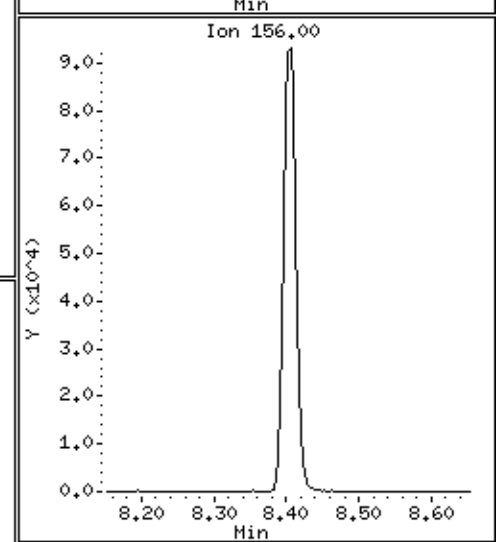


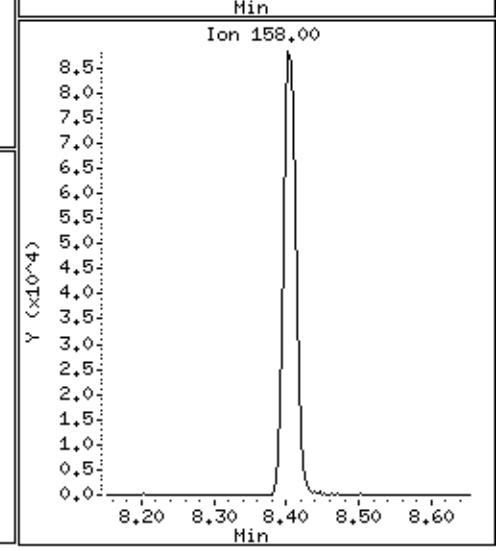












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

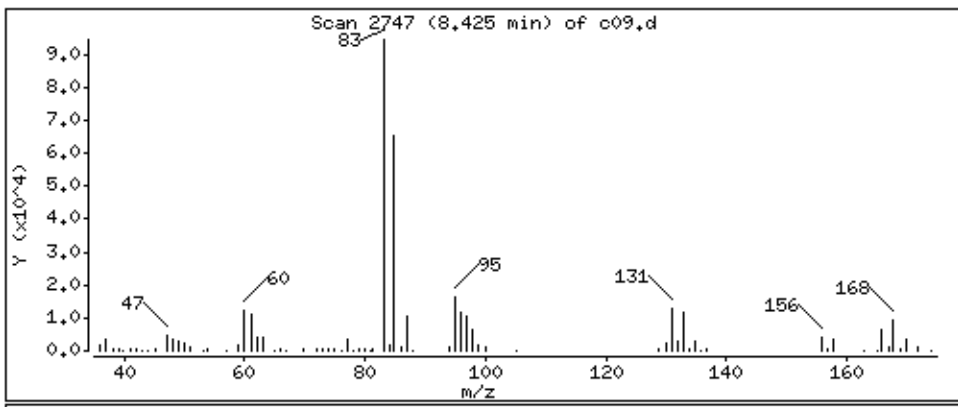
Operator: dae

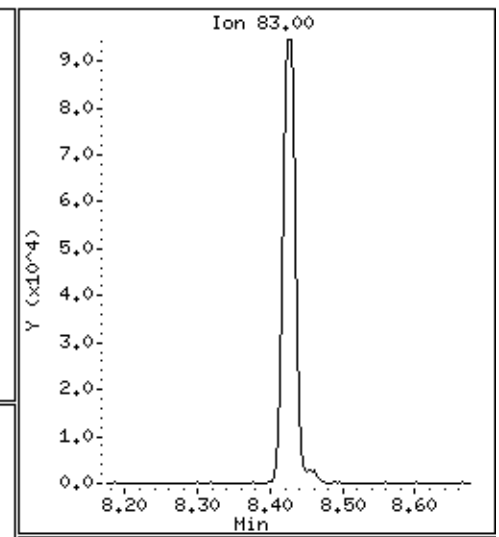
Column phase: DB-624

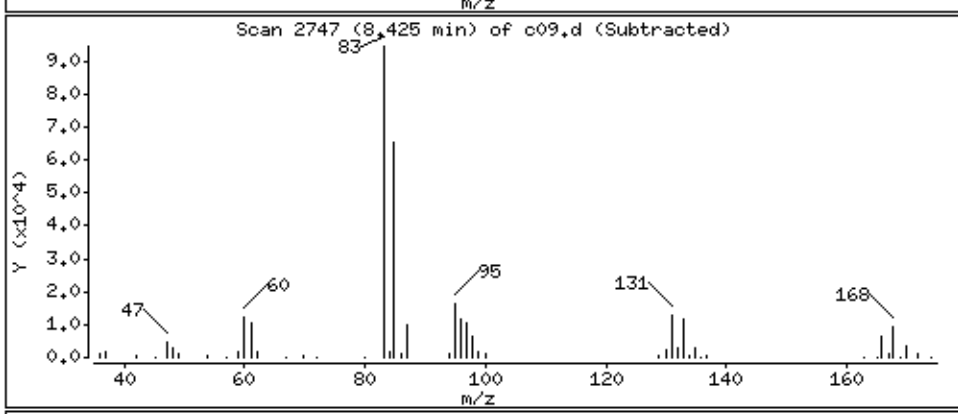
Column diameter: 0.18

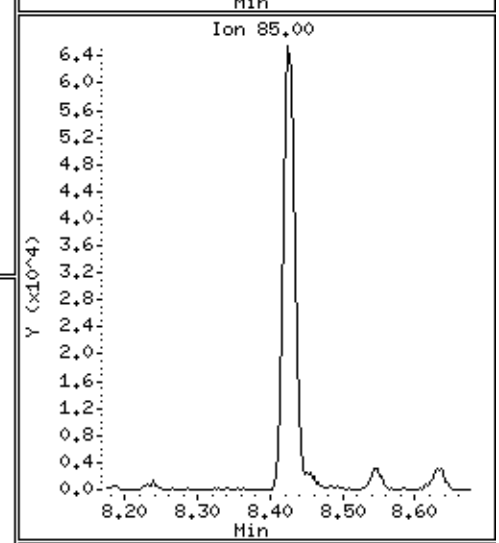
79 1,1,2,2-Tetrachloroethane

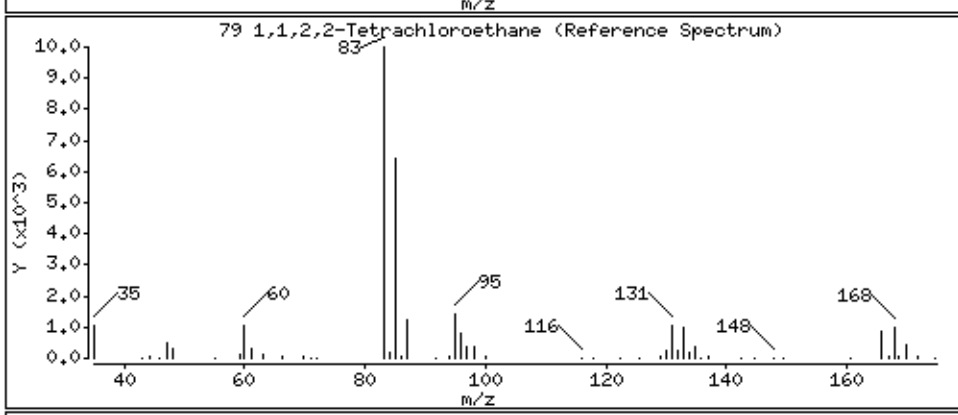
Concentration: 41.9 ppb

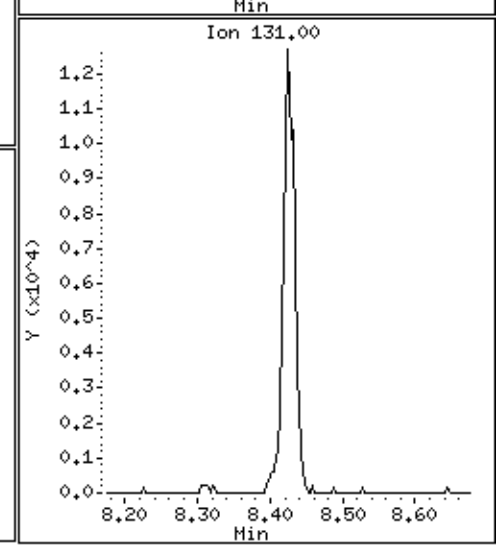


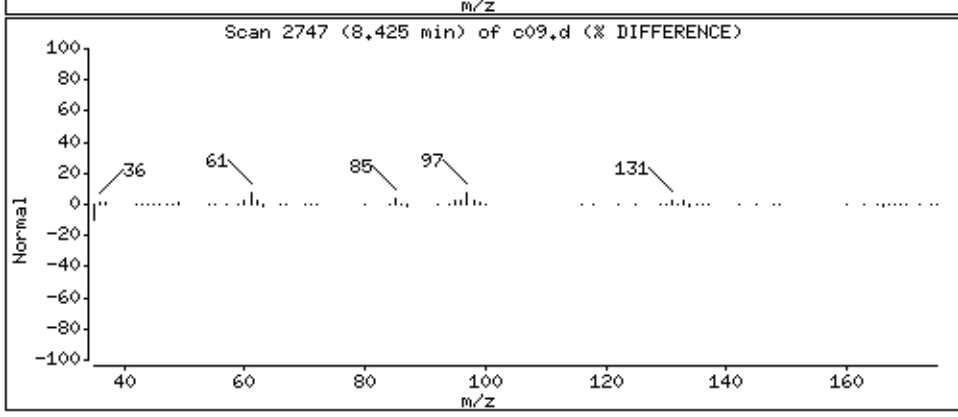












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

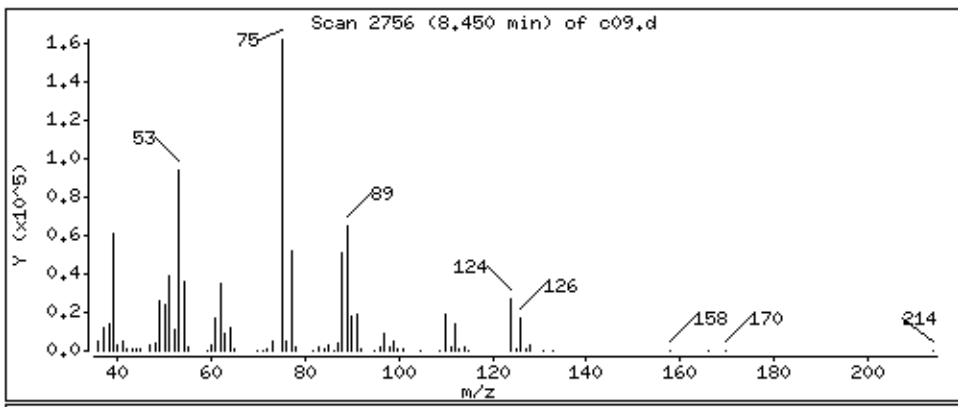
Operator: dae

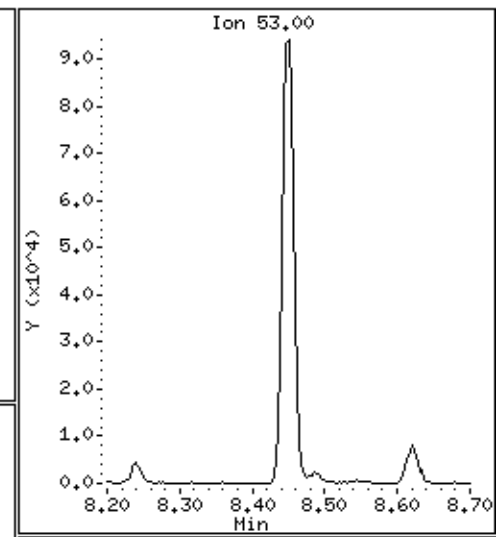
Column phase: DB-624

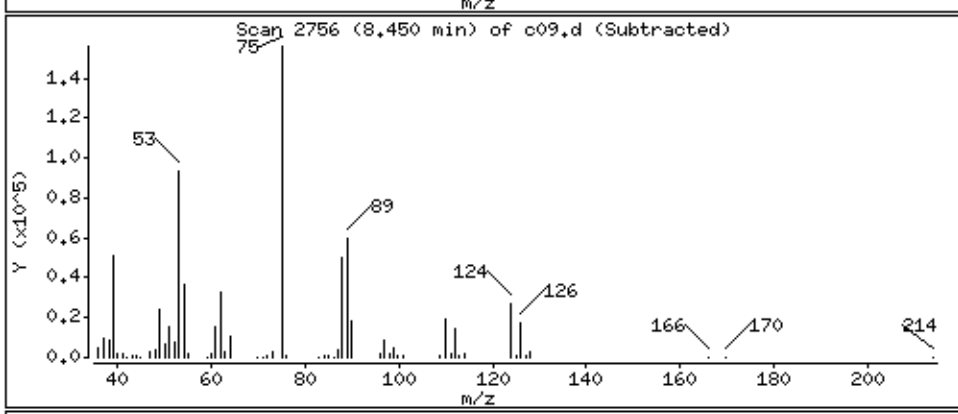
Column diameter: 0.18

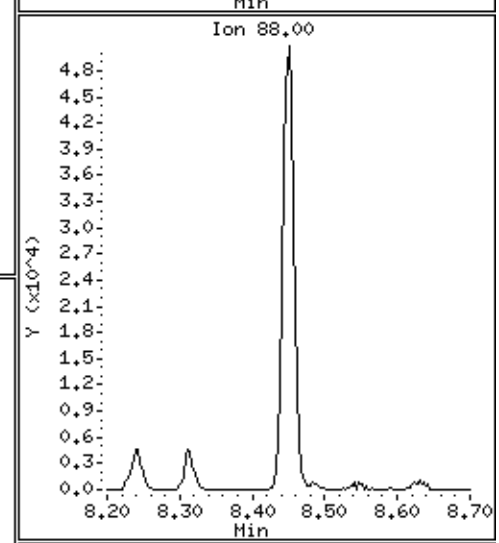
80 trans-1,4-Dichloro-2-butene

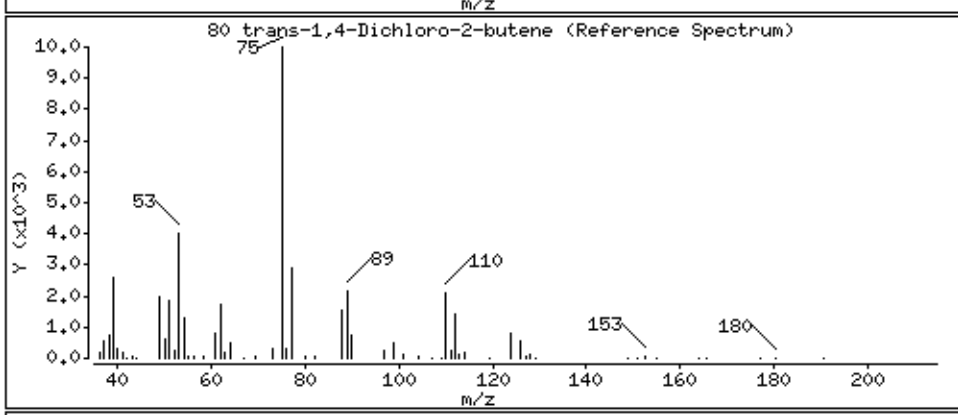
Concentration: 124 ppb

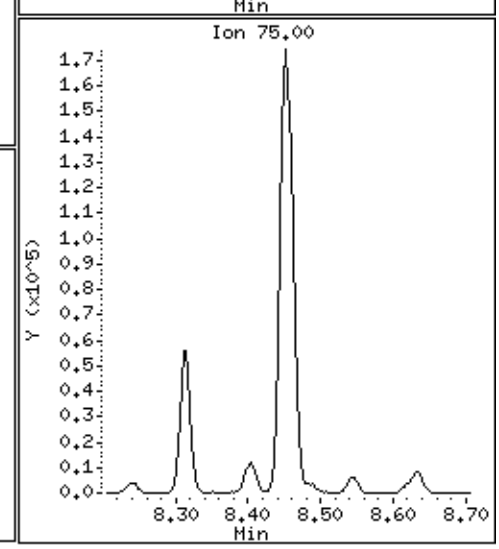


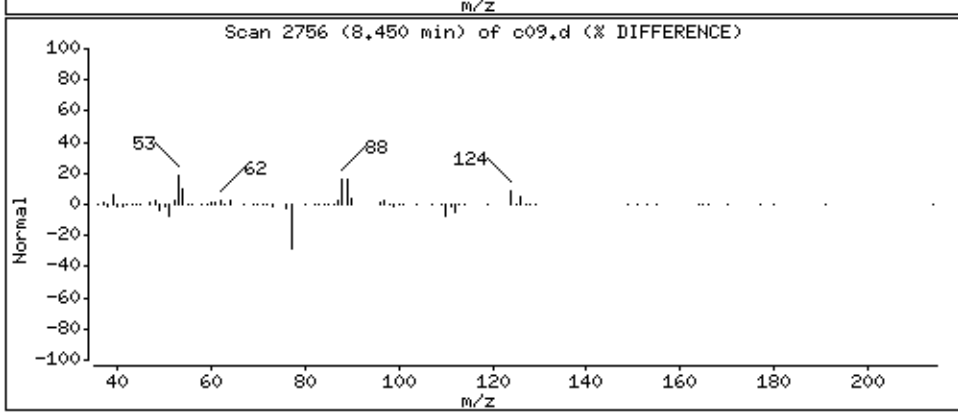












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

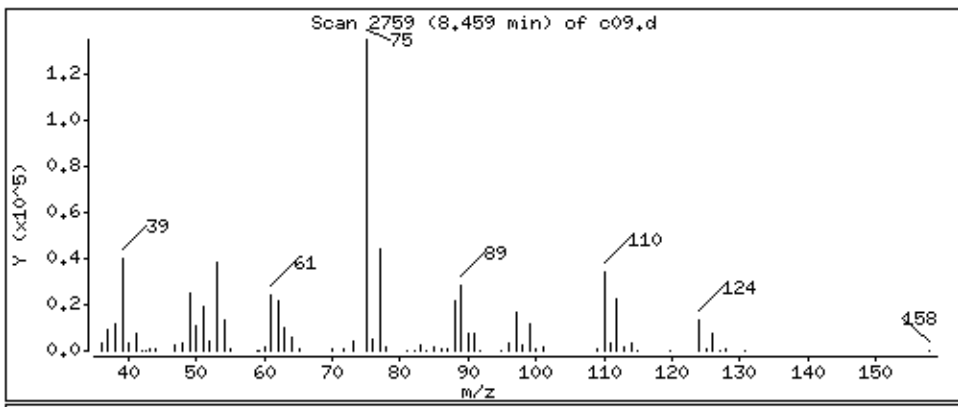
Operator: dae

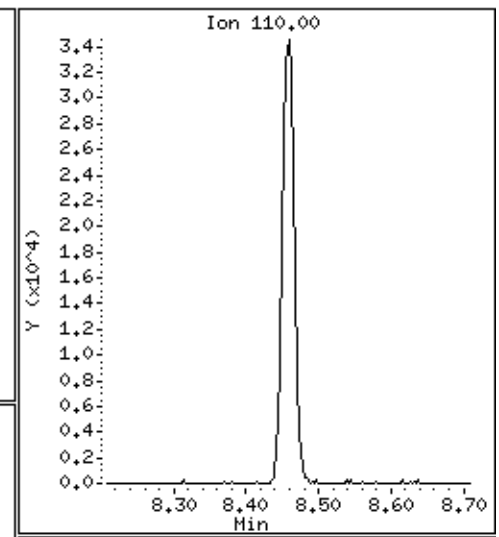
Column phase: DB-624

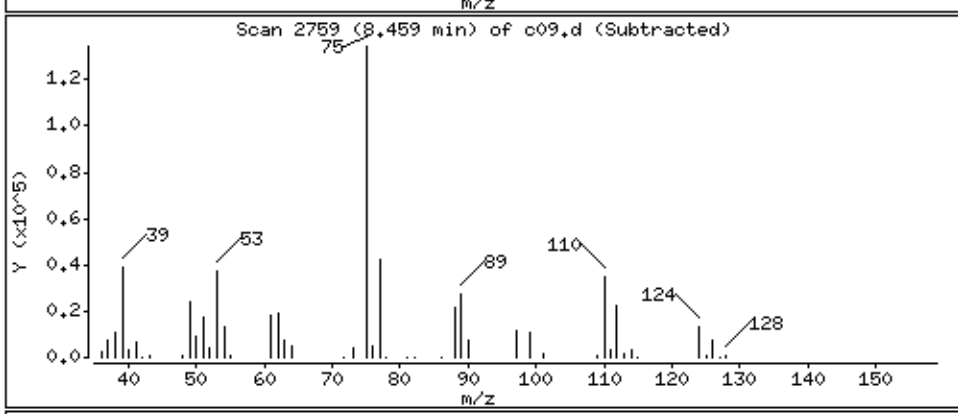
Column diameter: 0.18

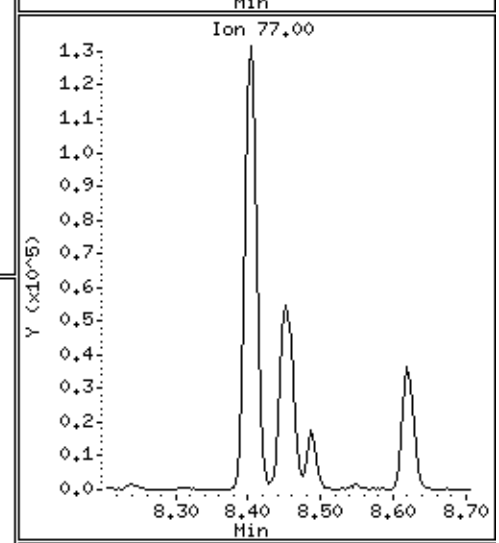
81 1,2,3-Trichloropropane

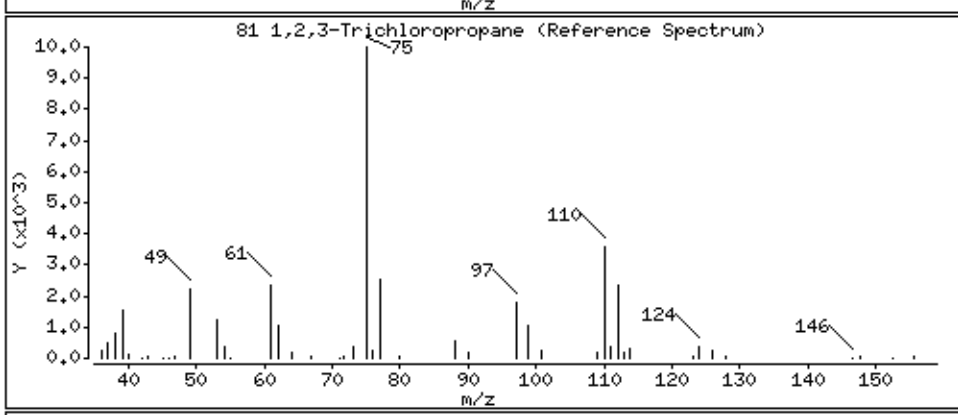
Concentration: 41.1 ppb

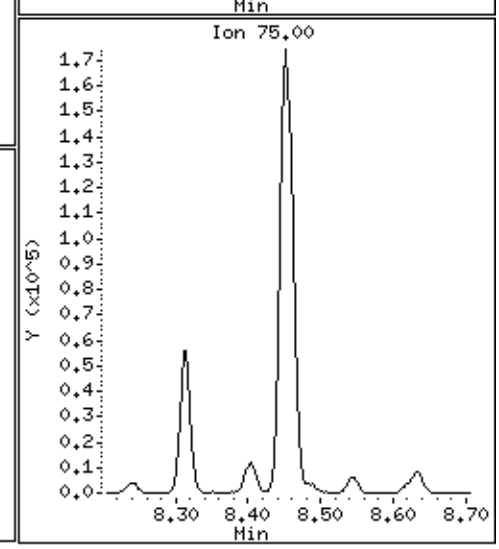


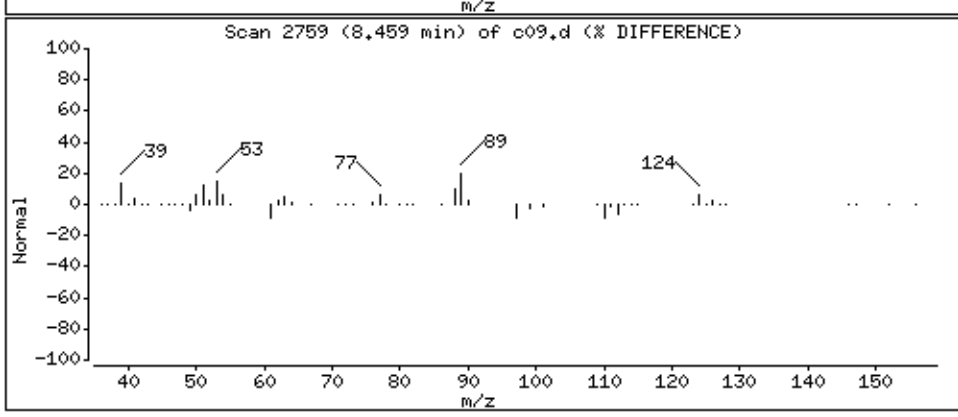












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

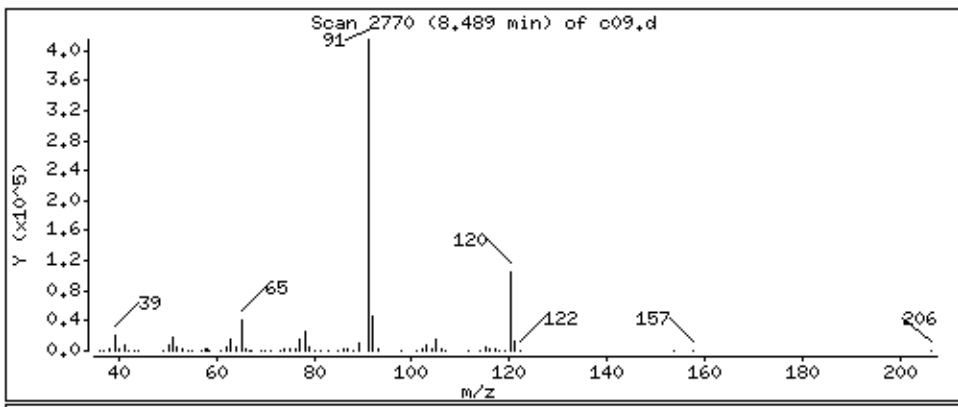
Operator: dae

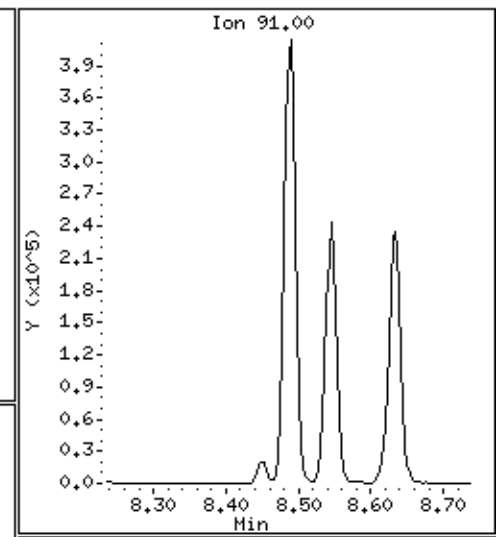
Column phase: DB-624

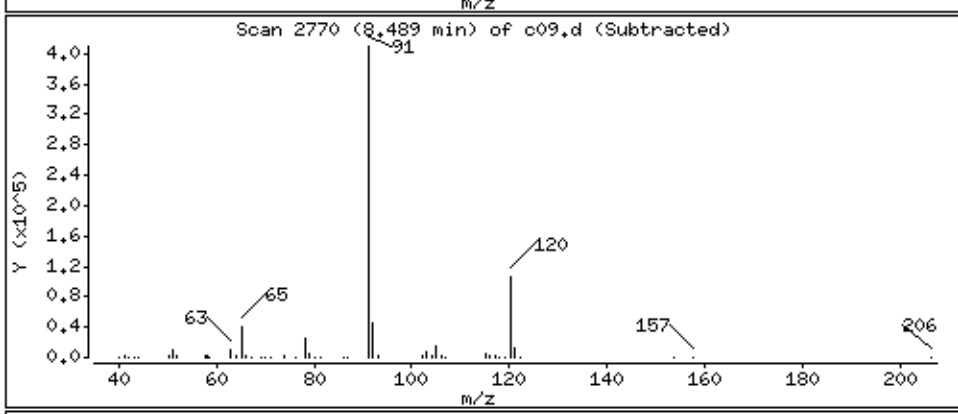
Column diameter: 0.18

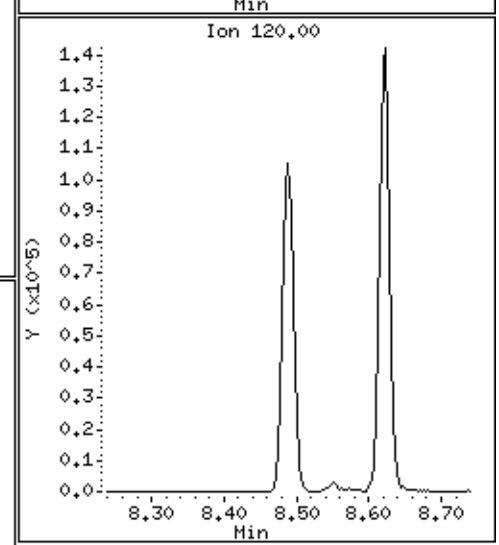
82 n-Propylbenzene

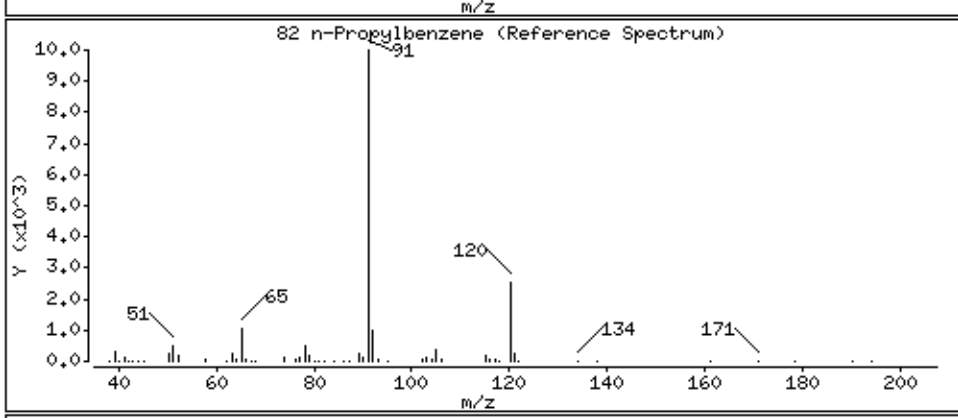
Concentration: 45.8 ppb

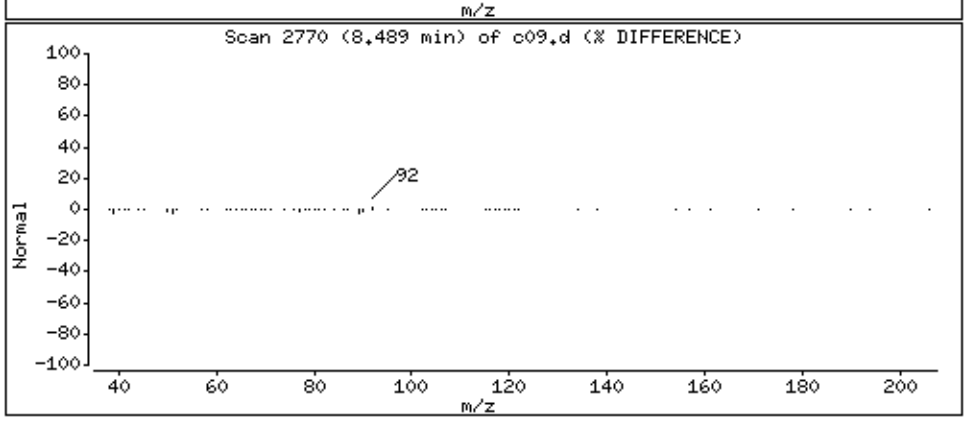












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

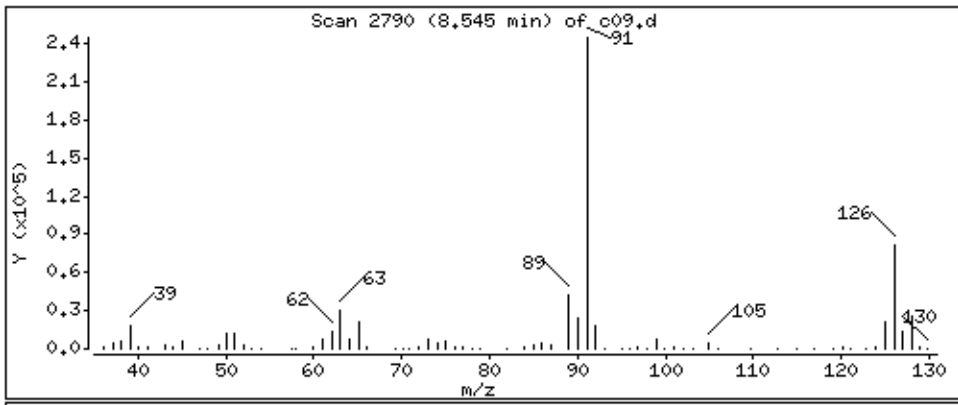
Operator: dae

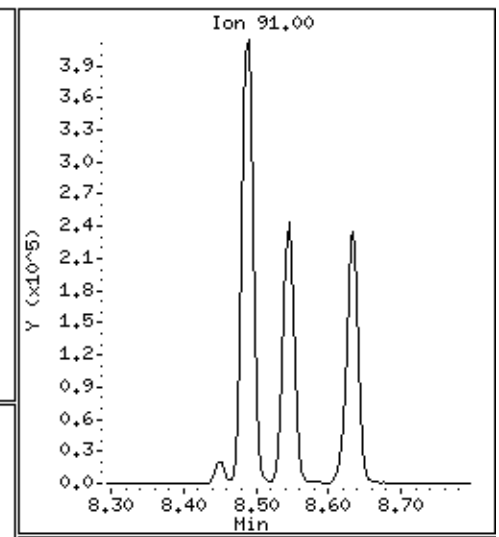
Column phase: DB-624

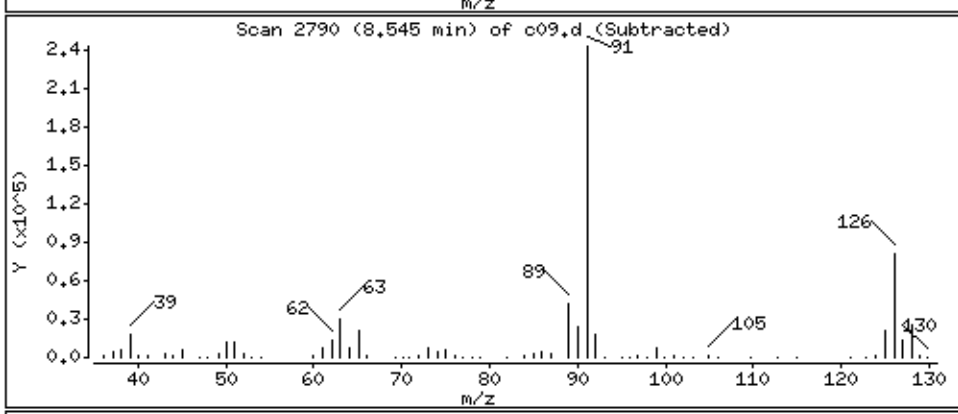
Column diameter: 0.18

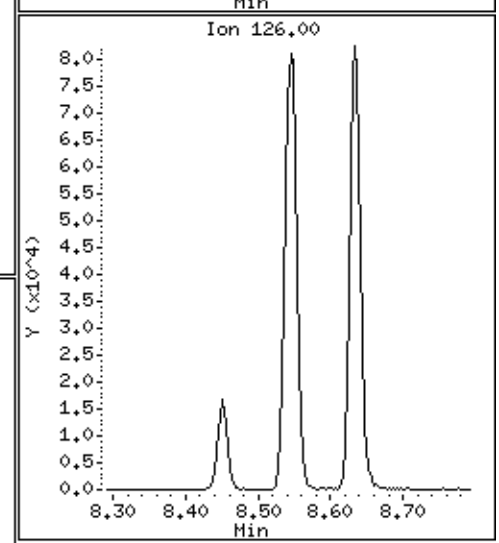
83 2-Chlorotoluene

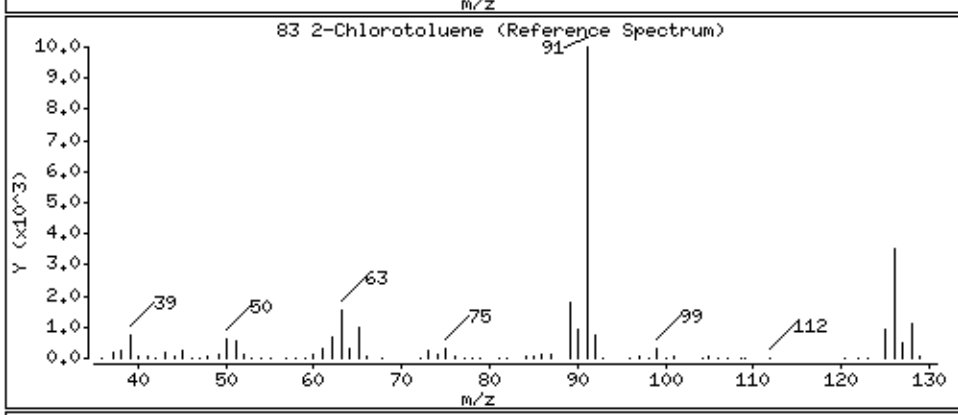
Concentration: 42.3 ppb

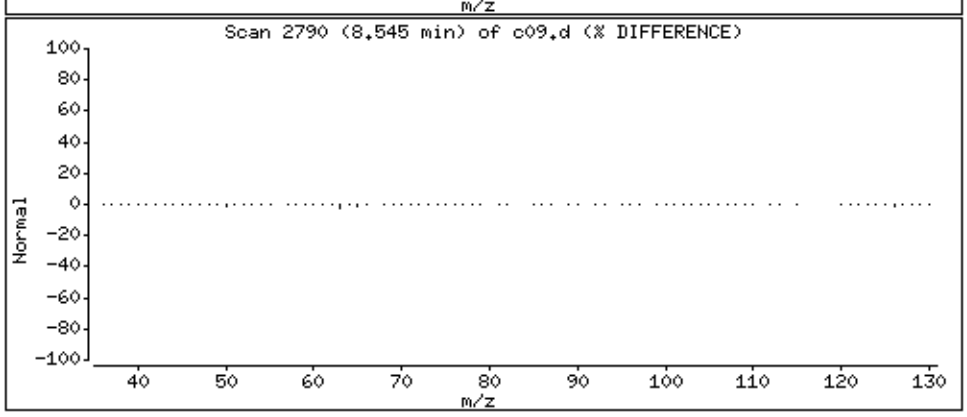












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

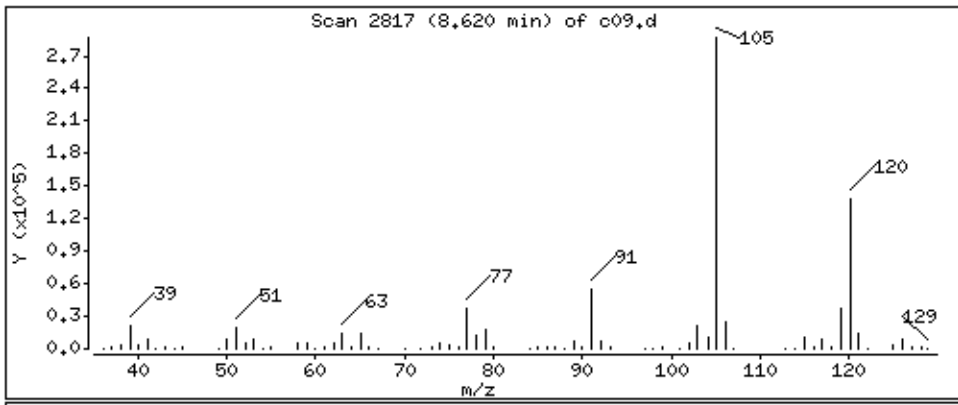
Operator: dae

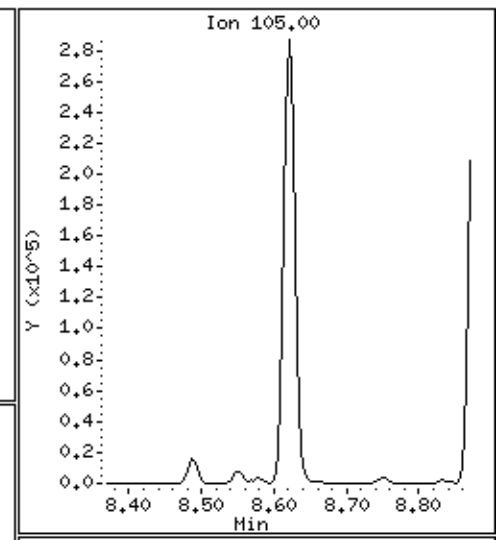
Column phase: DB-624

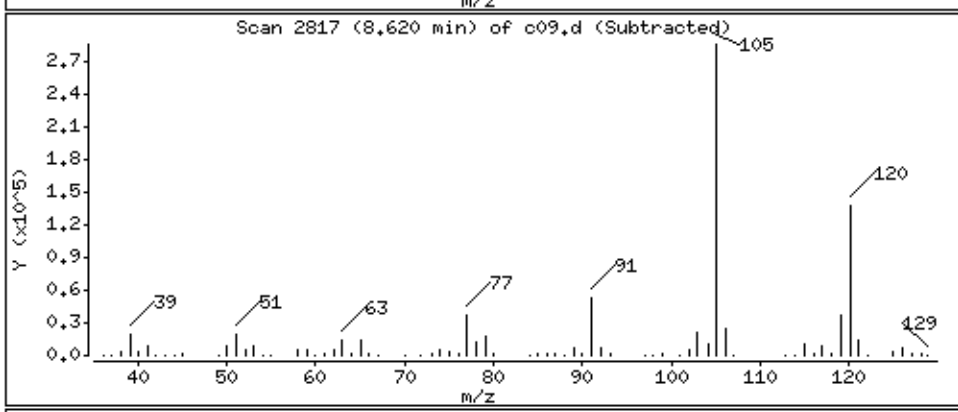
Column diameter: 0.18

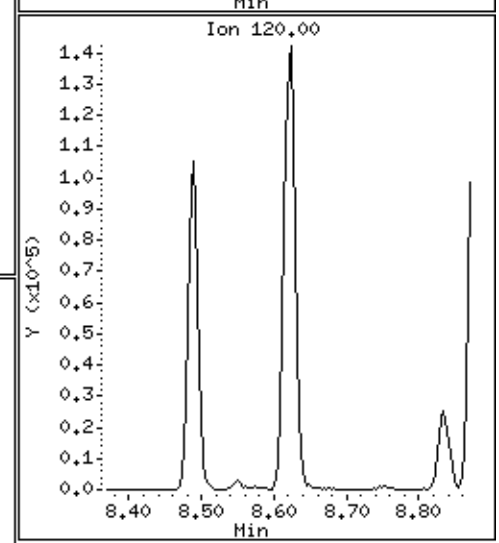
84 1,3,5-Trimethylbenzene

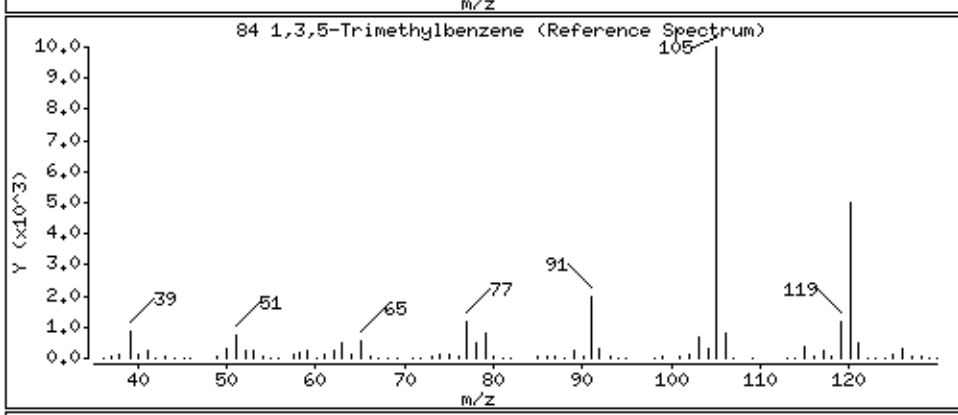
Concentration: 42.5 ppb

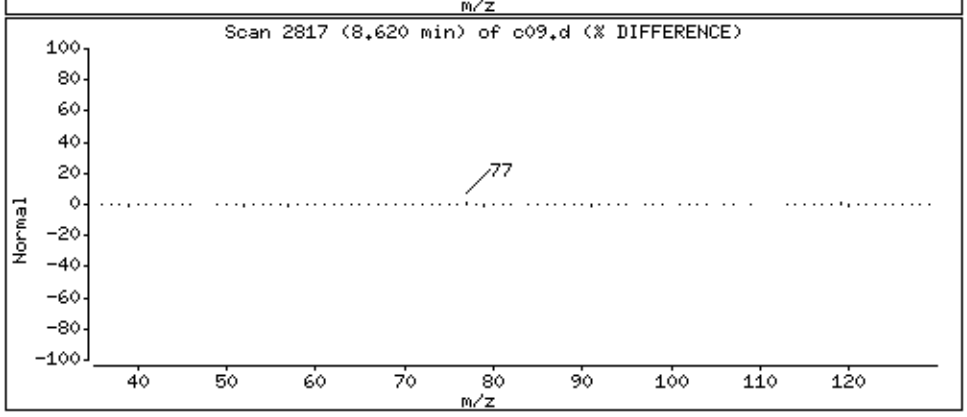












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

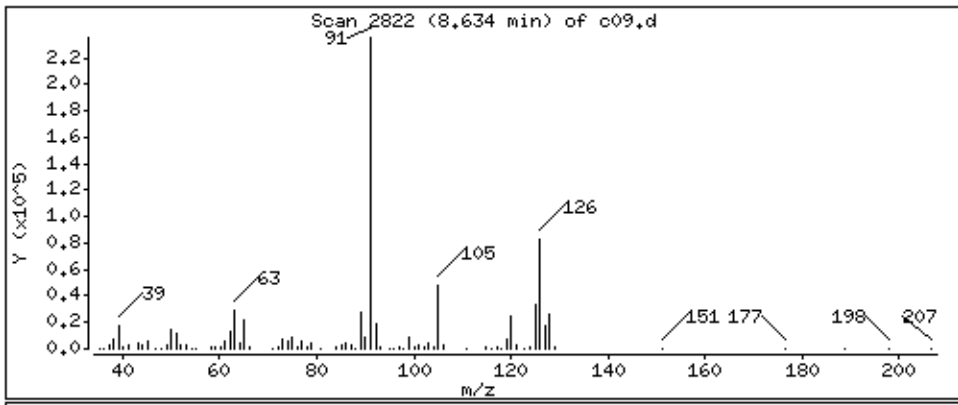
Operator: dae

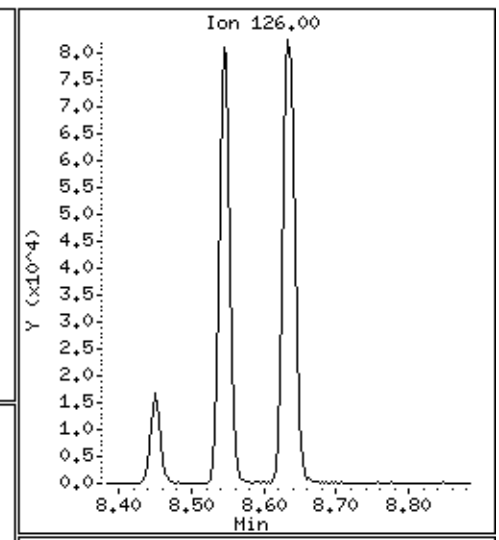
Column phase: DB-624

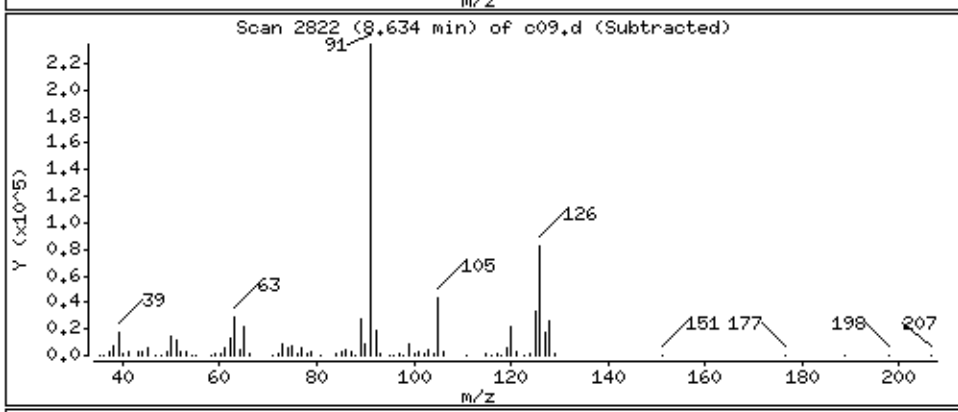
Column diameter: 0.18

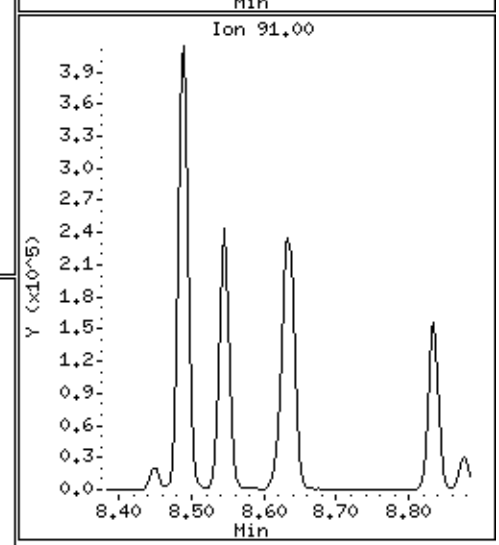
85 4-Chlorotoluene

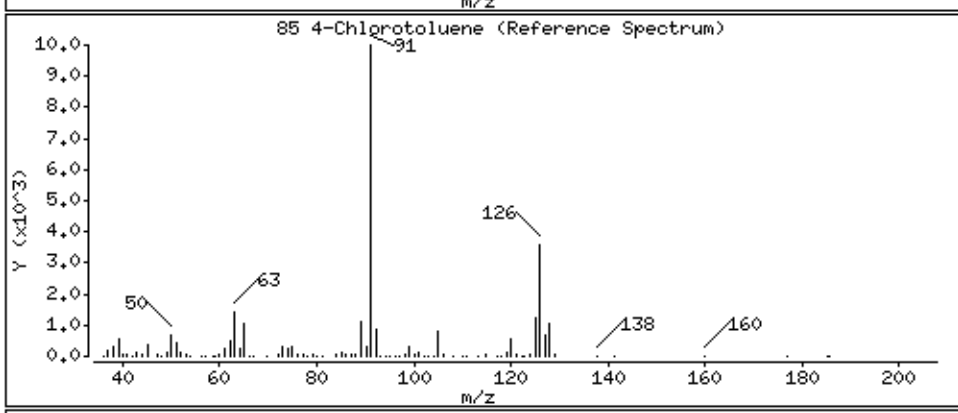
Concentration: 41.0 ppb

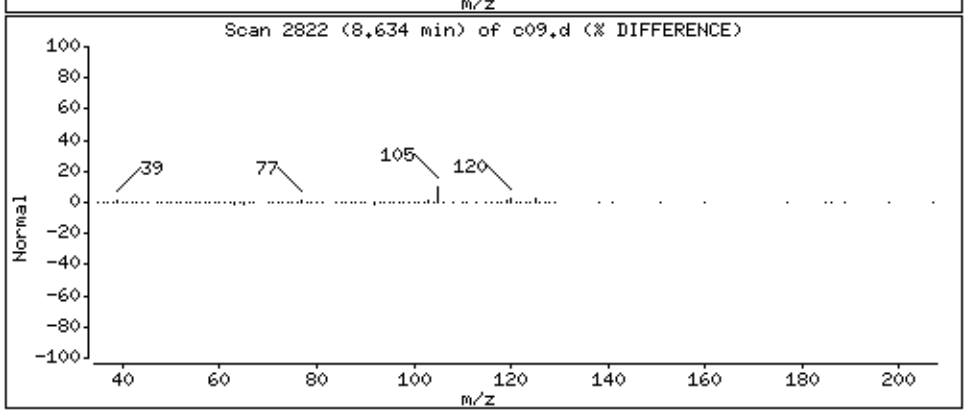












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

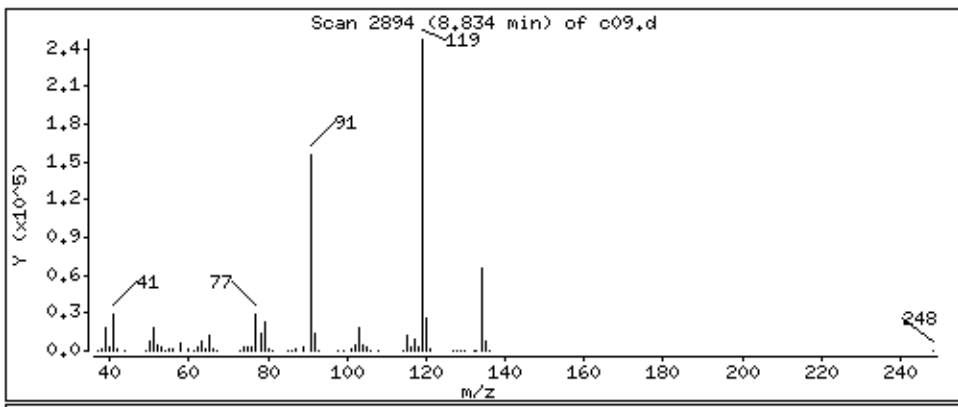
Operator: dae

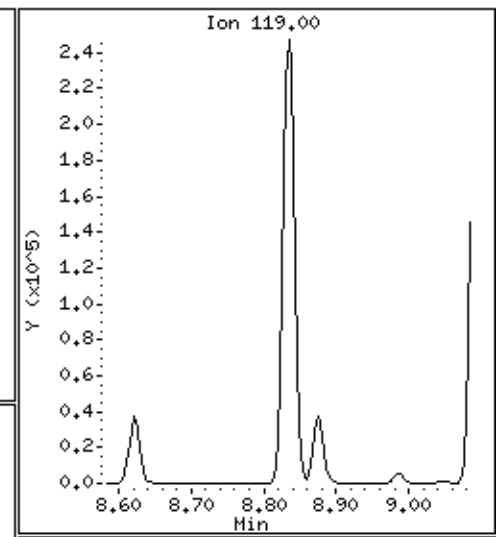
Column phase: DB-624

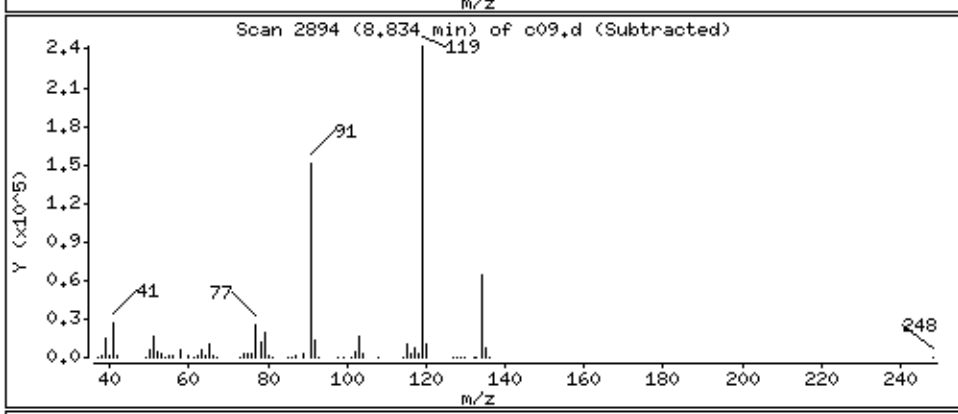
Column diameter: 0.18

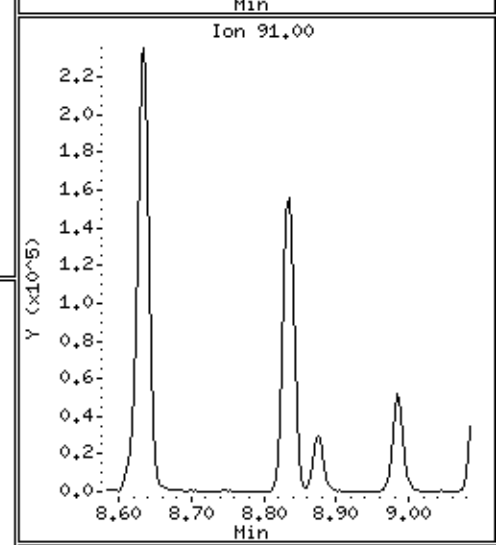
86 tert-Butylbenzene

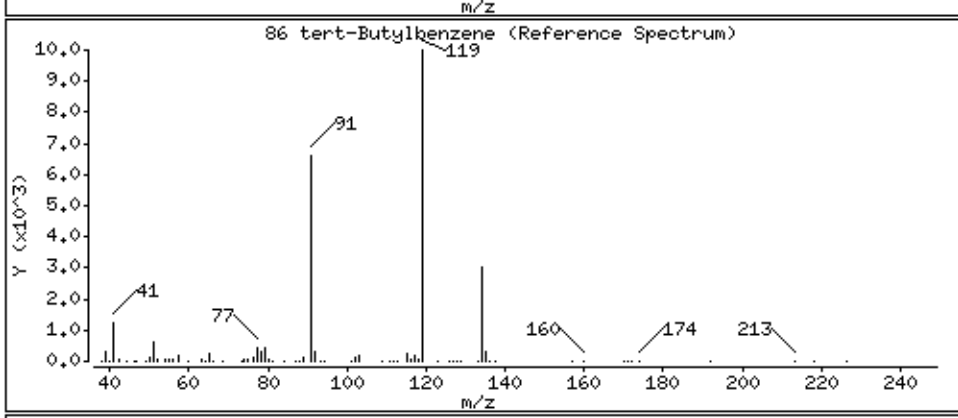
Concentration: 35.3 ppb

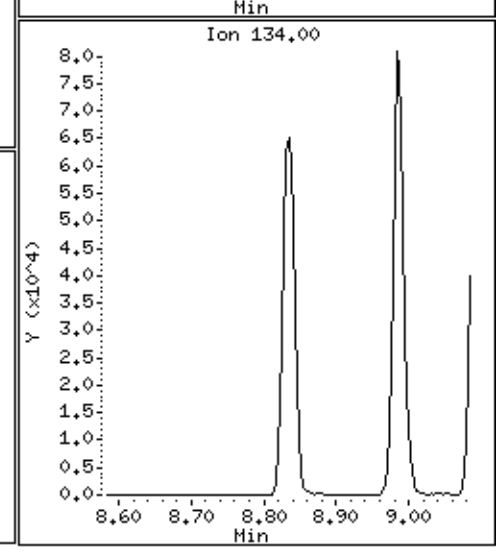


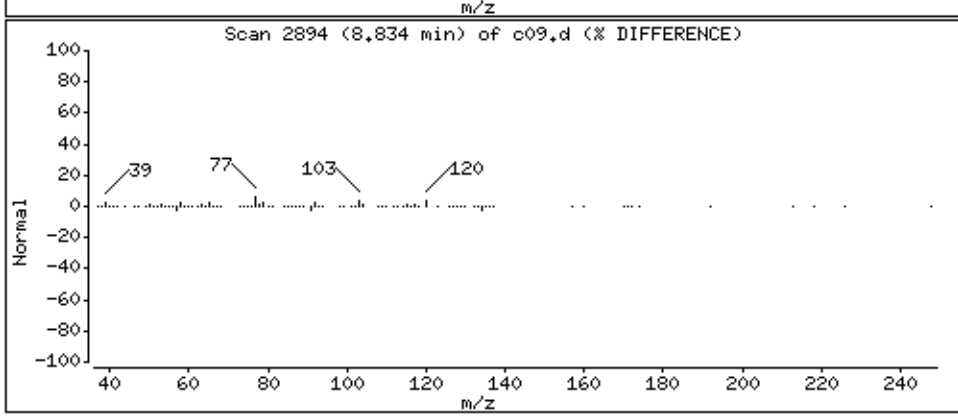












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

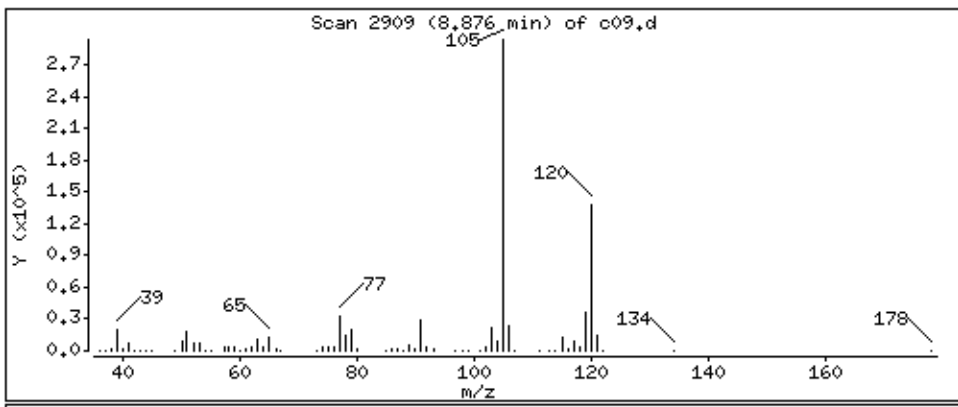
Operator: dae

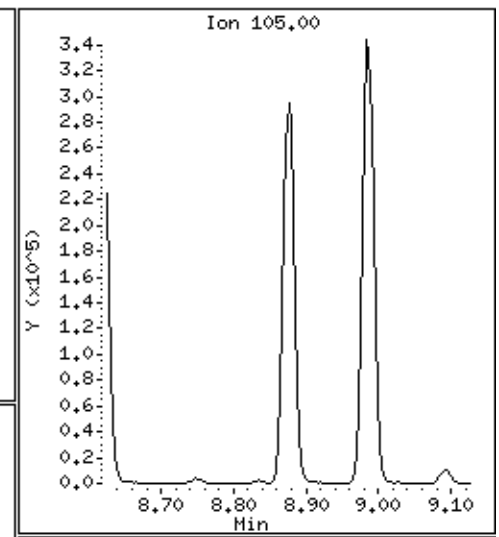
Column phase: DB-624

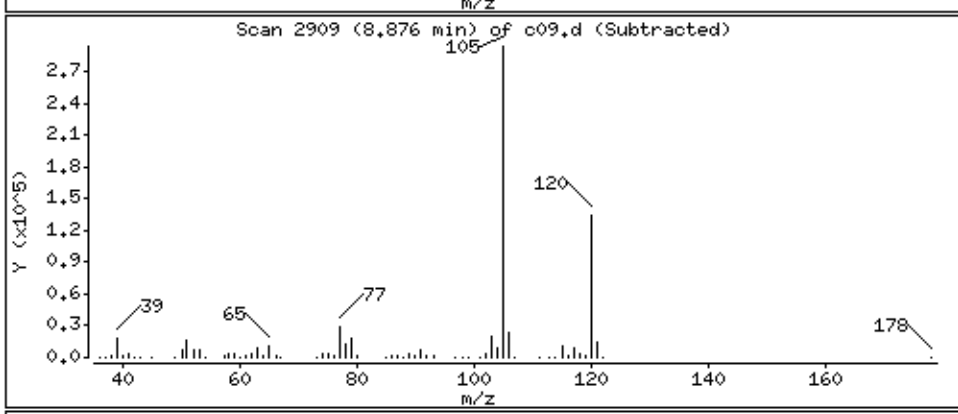
Column diameter: 0.18

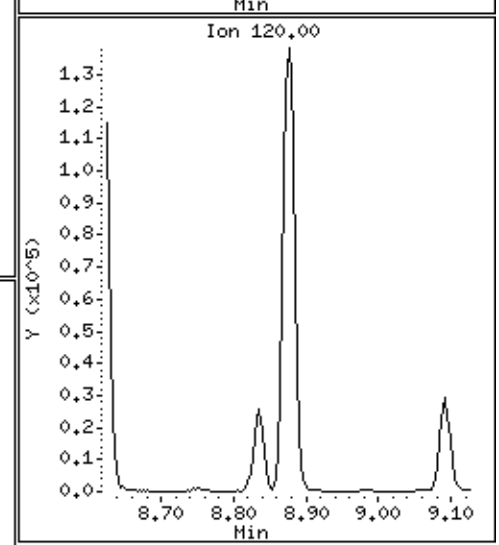
87 1,2,4-Trimethylbenzene

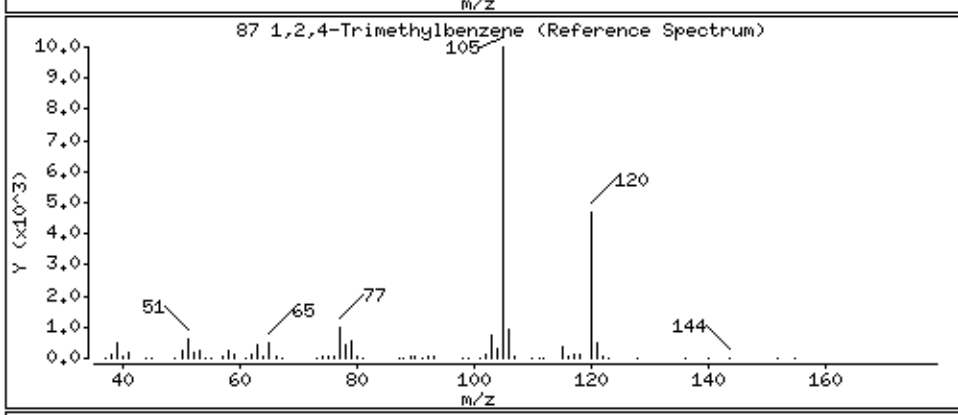
Concentration: 42.5 ppb

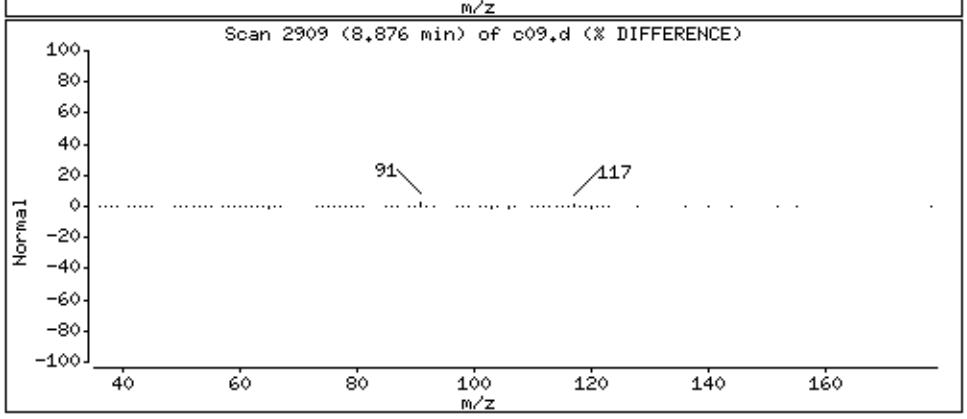












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

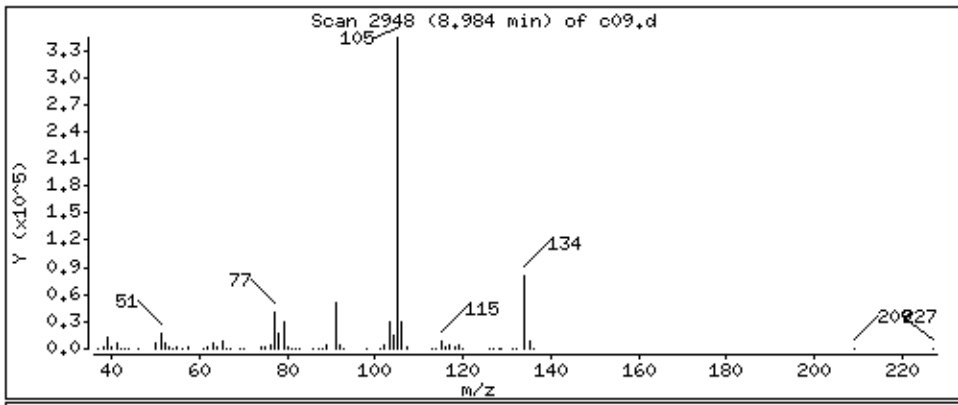
Operator: dae

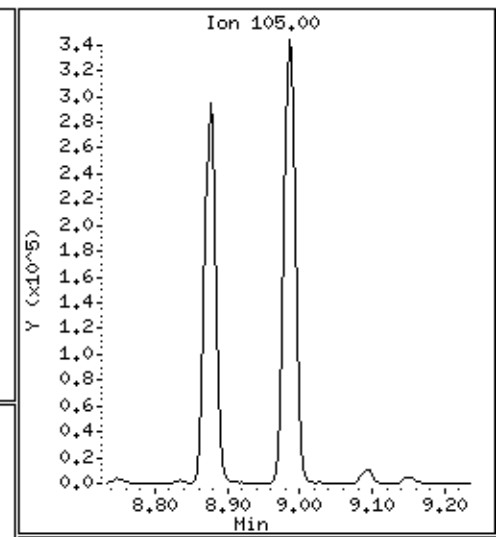
Column phase: DB-624

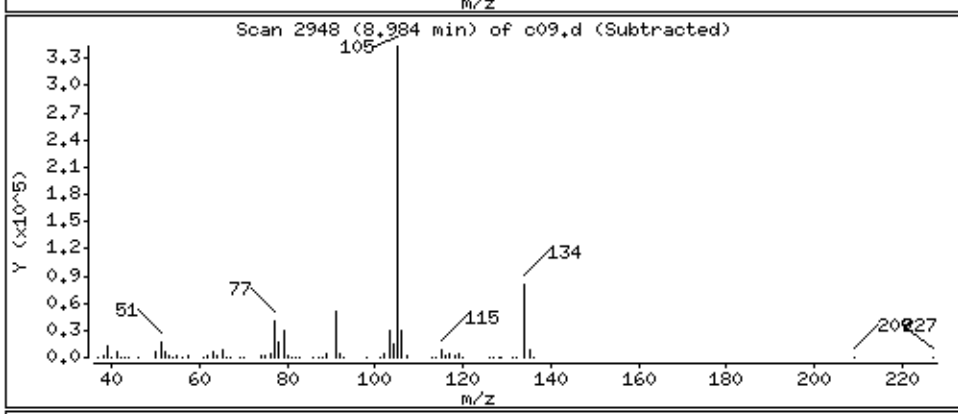
Column diameter: 0.18

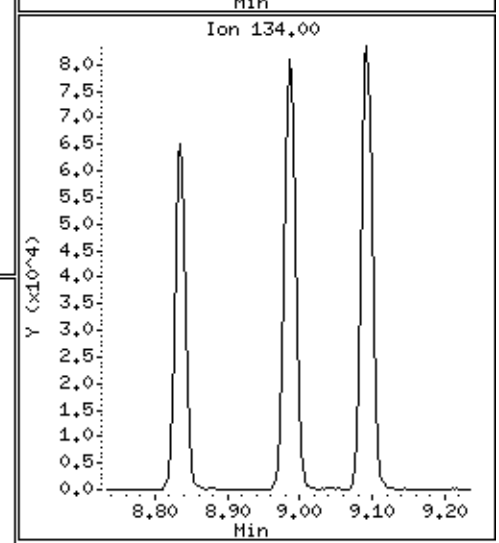
88 sec-Butylbenzene

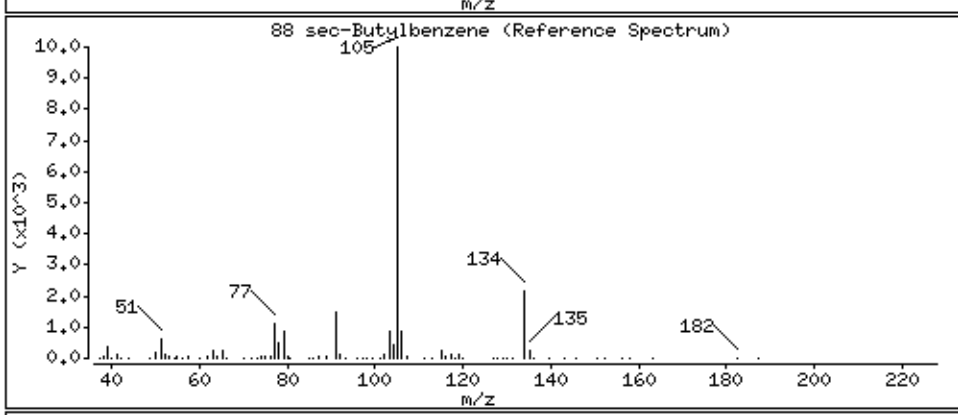
Concentration: 42.4 ppb

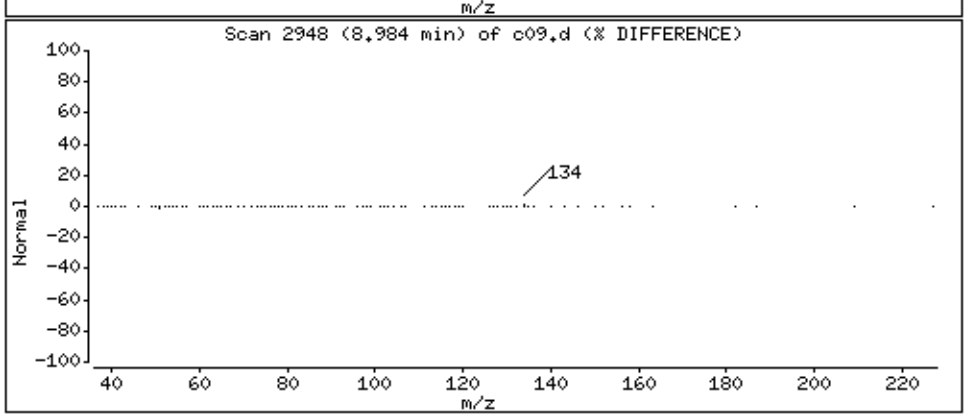












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

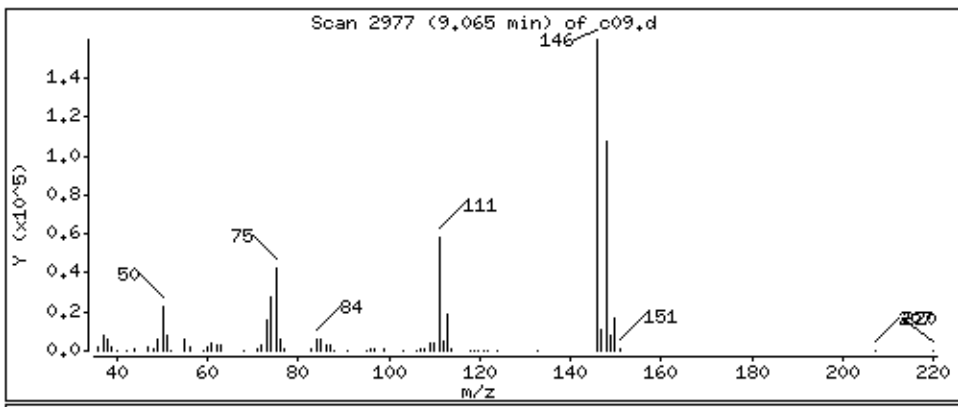
Operator: dae

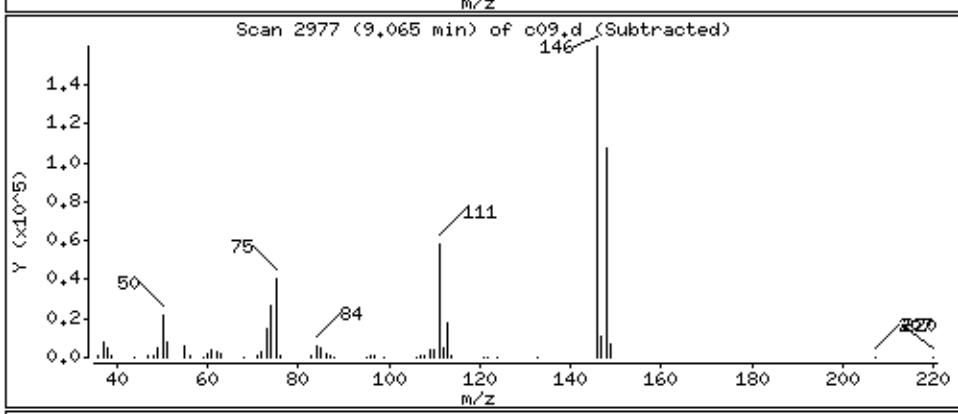
Column phase: DB-624

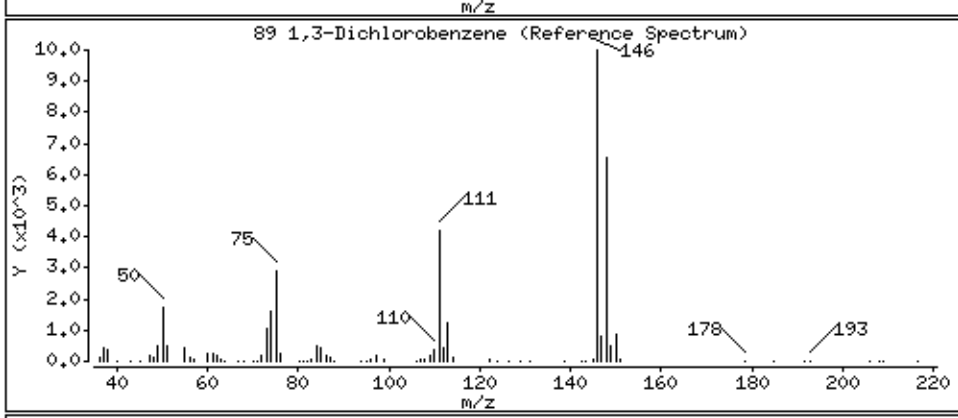
Column diameter: 0.18

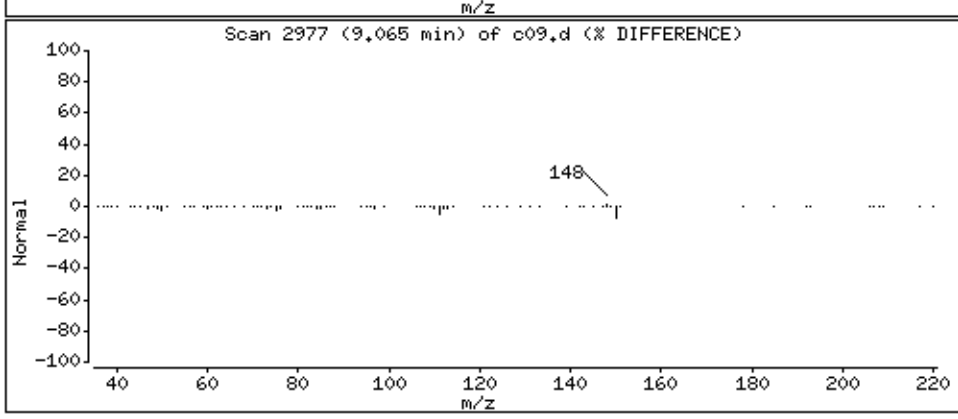
89 1,3-Dichlorobenzene

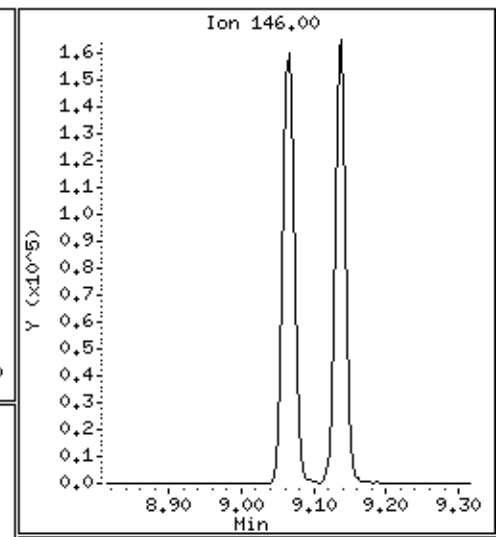
Concentration: 38.4 ppb

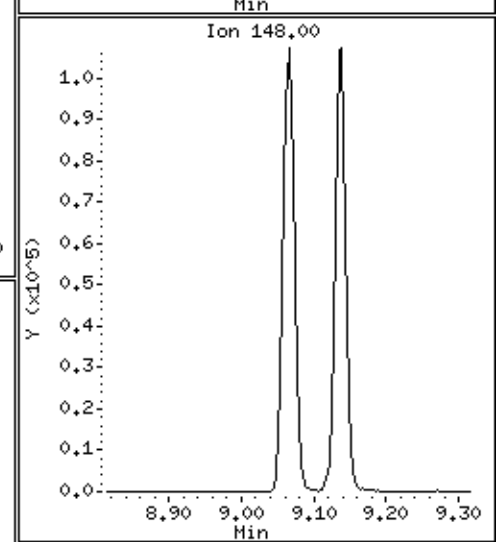


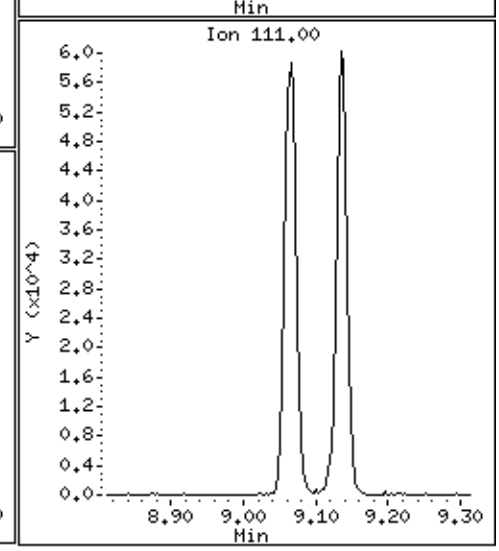












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

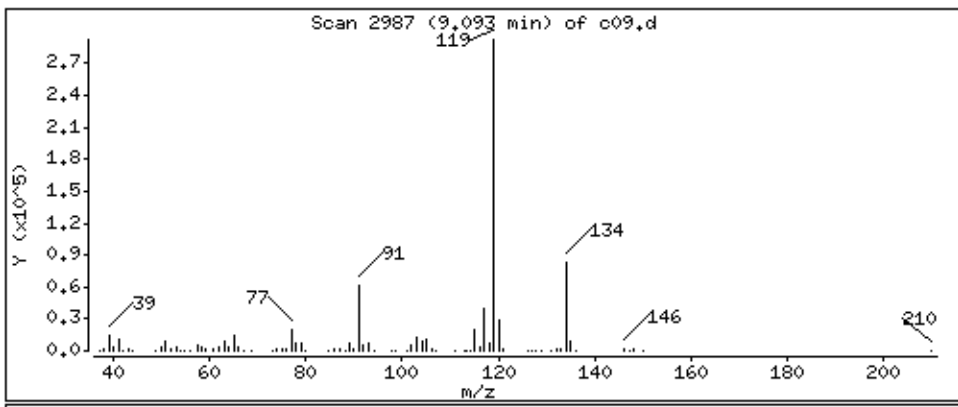
Operator: dae

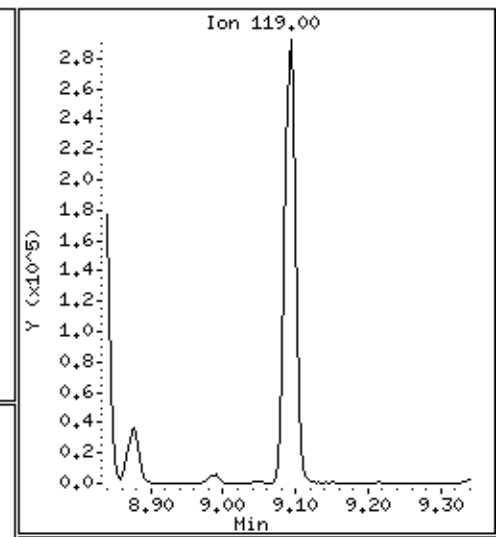
Column phase: DB-624

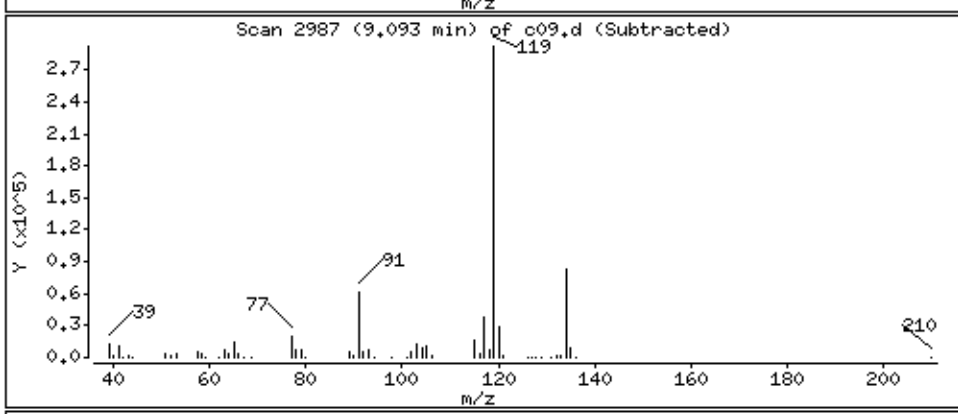
Column diameter: 0.18

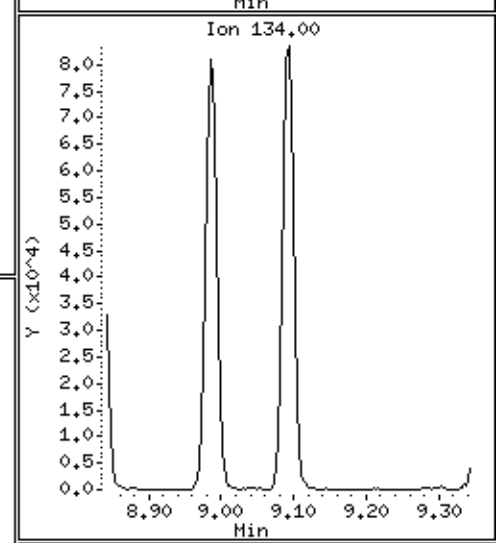
90 p-Isopropyltoluene

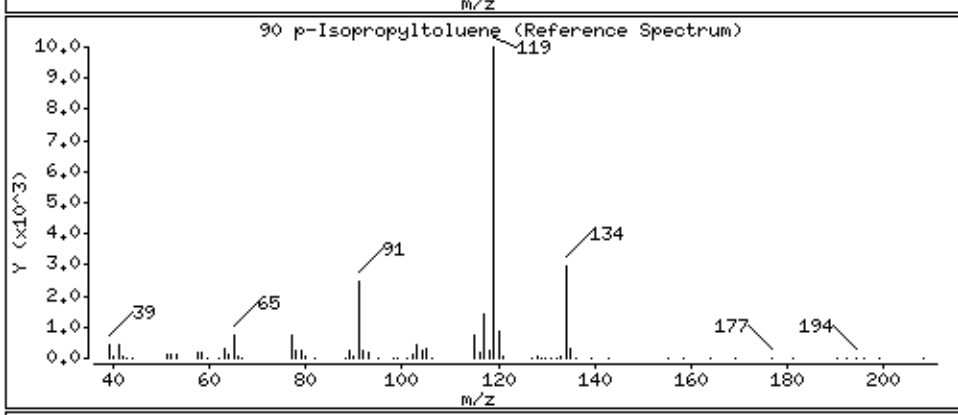
Concentration: 41.9 ppb

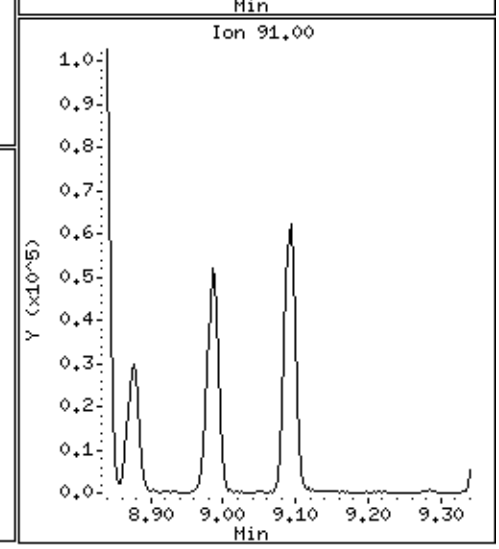


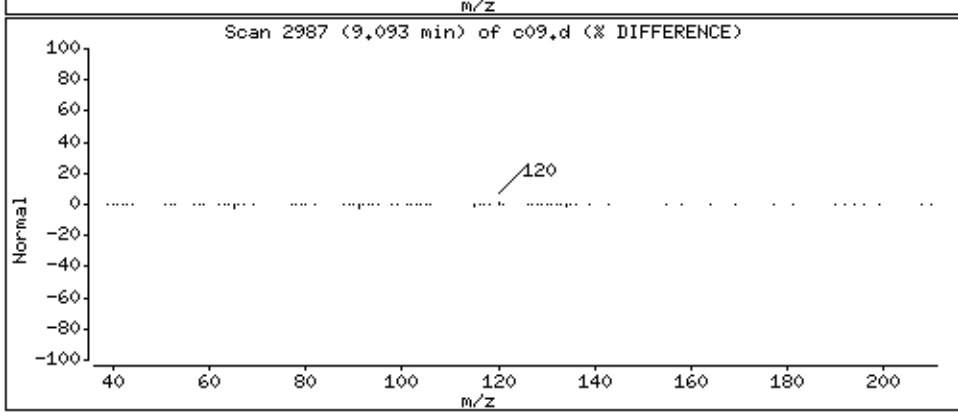












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

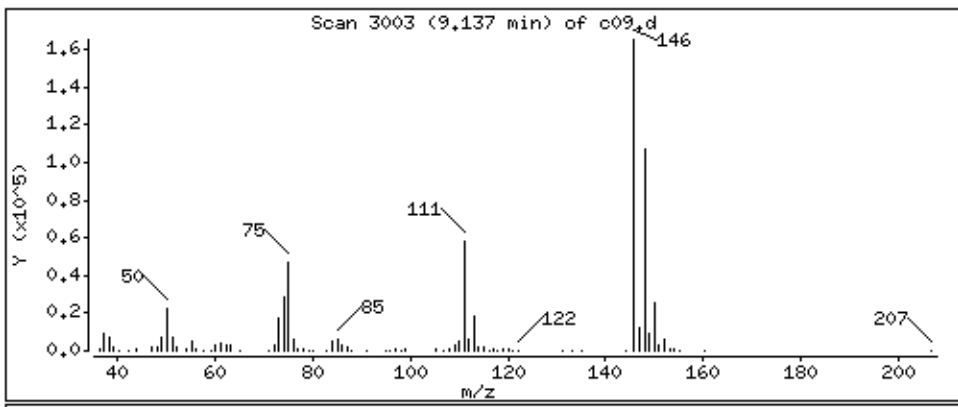
Operator: dae

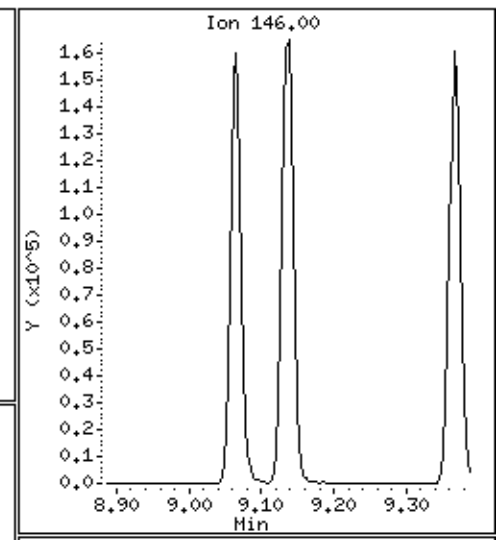
Column phase: DB-624

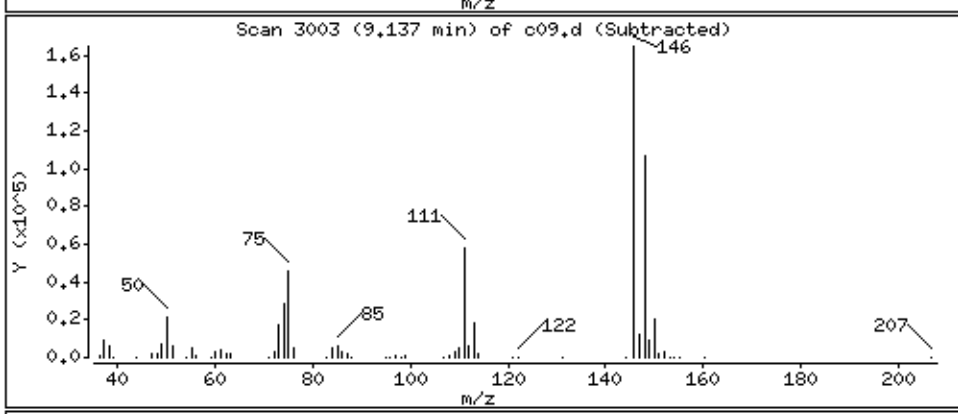
Column diameter: 0.18

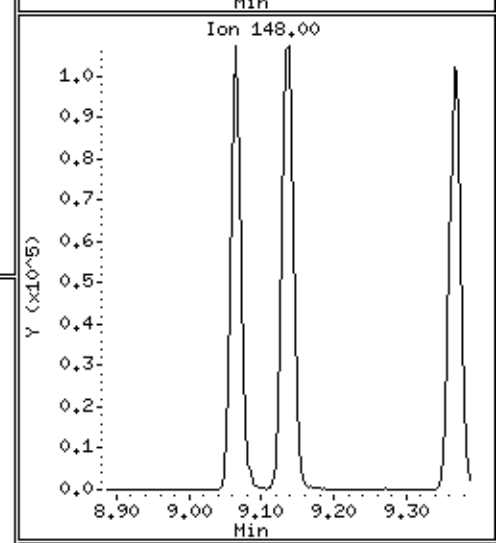
92 1,4-Dichlorobenzene

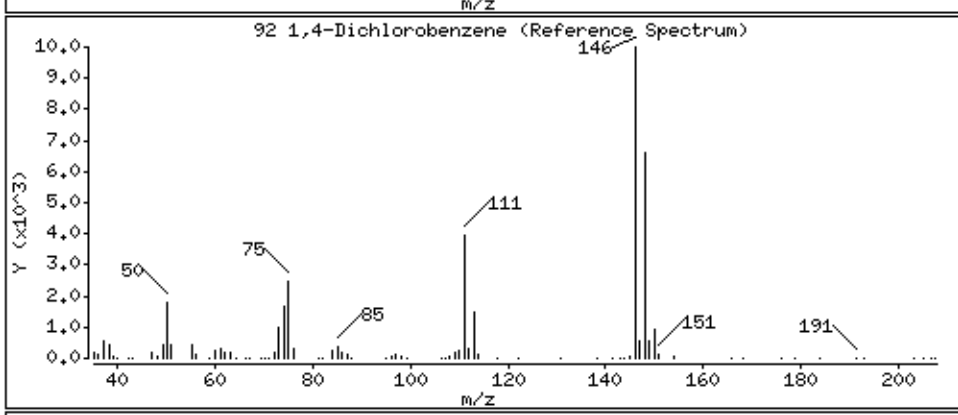
Concentration: 36.6 ppb

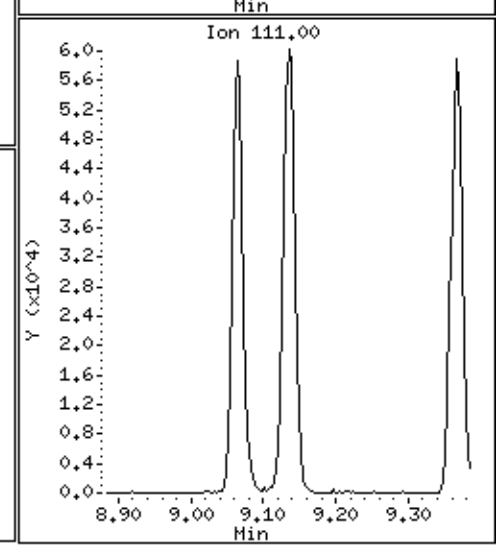


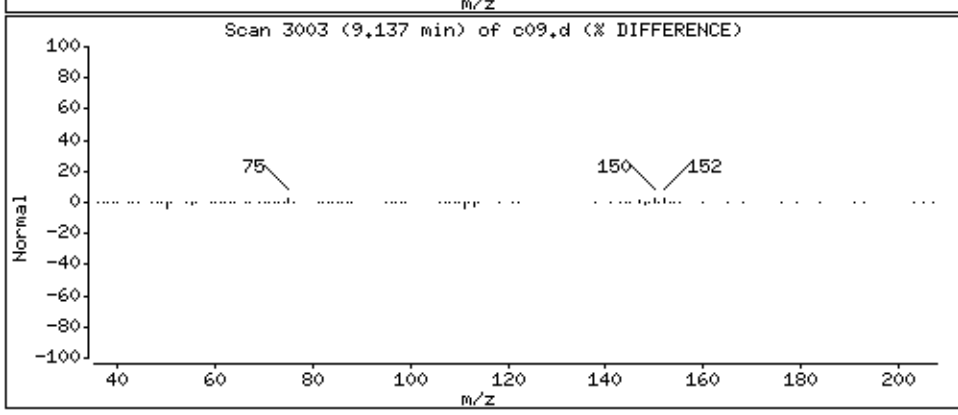












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

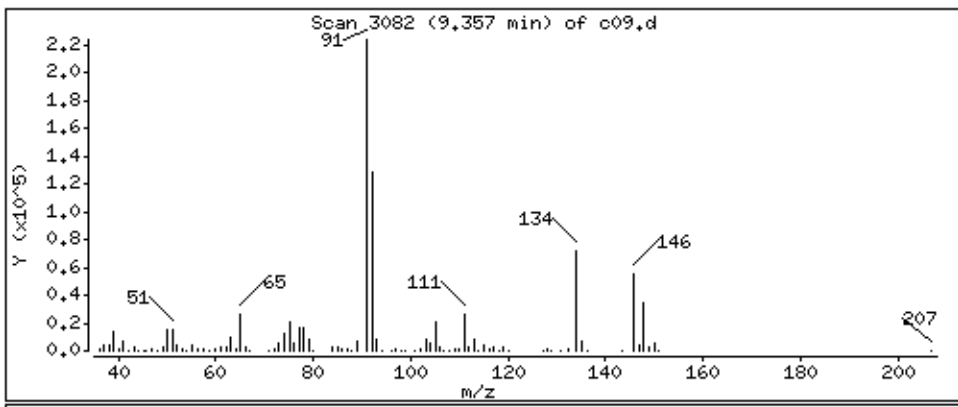
Operator: dae

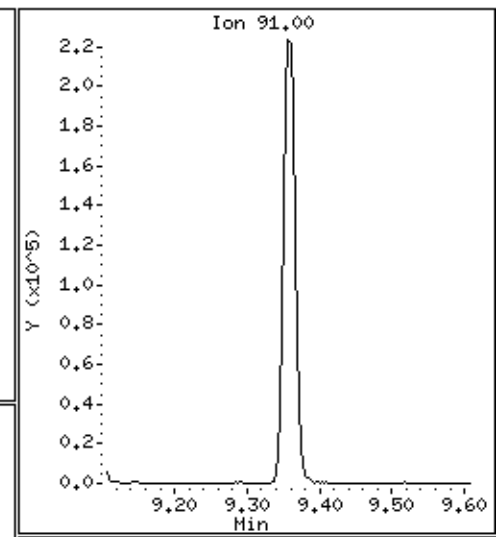
Column phase: DB-624

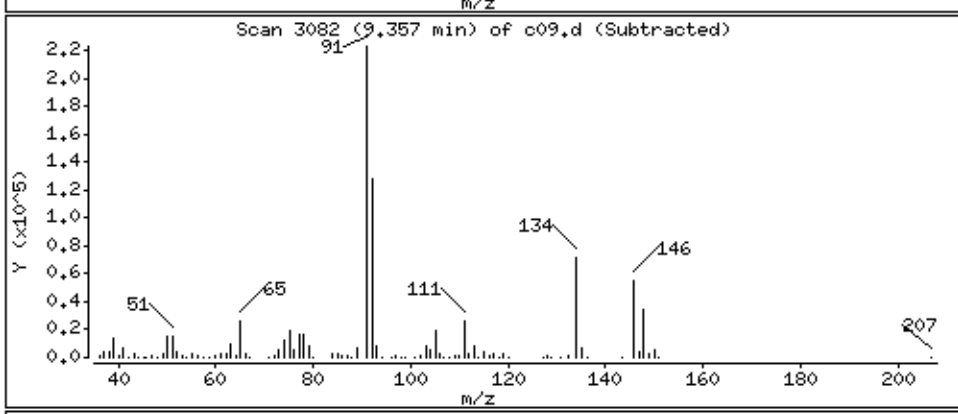
Column diameter: 0.18

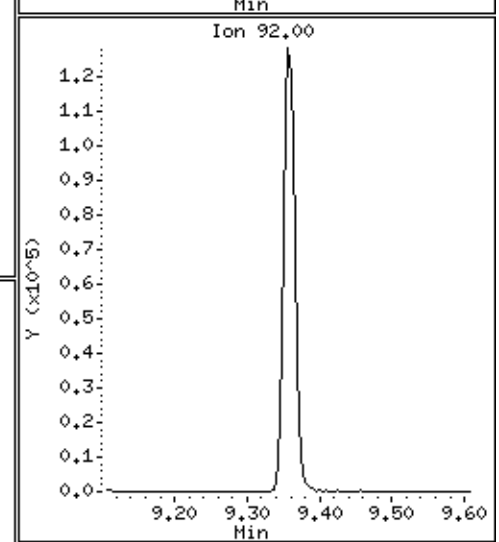
93 n-Butylbenzene

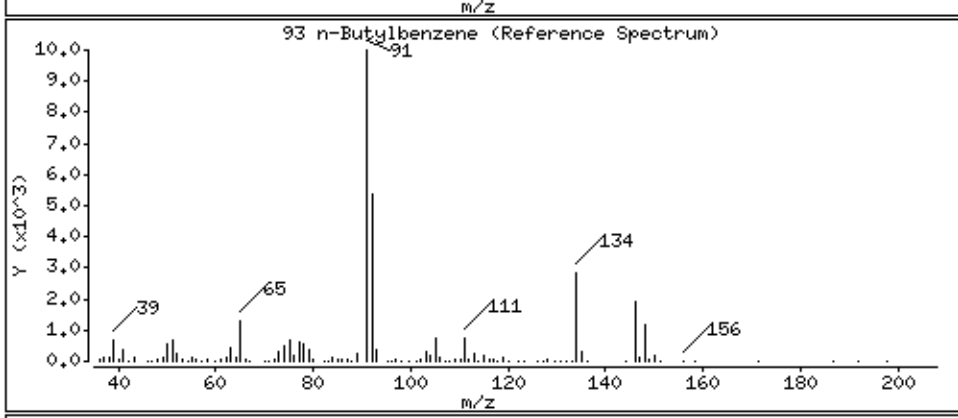
Concentration: 40.2 ppb

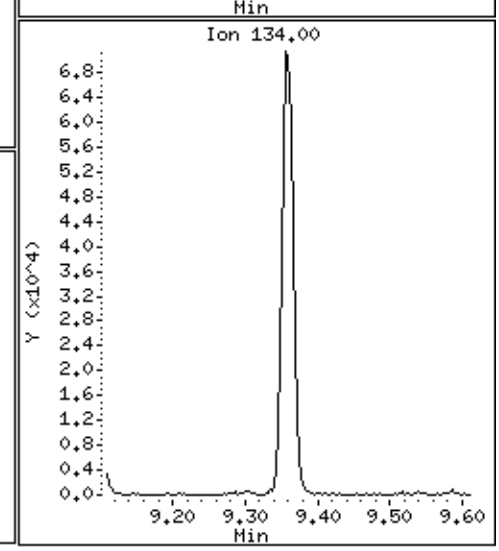


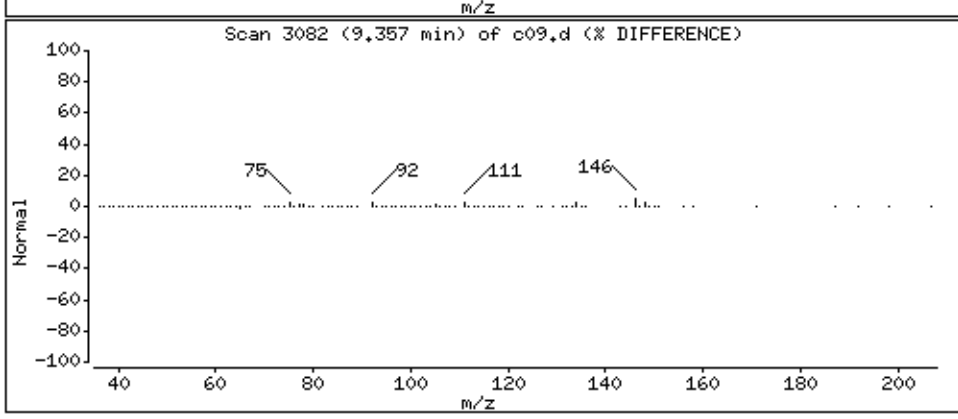












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

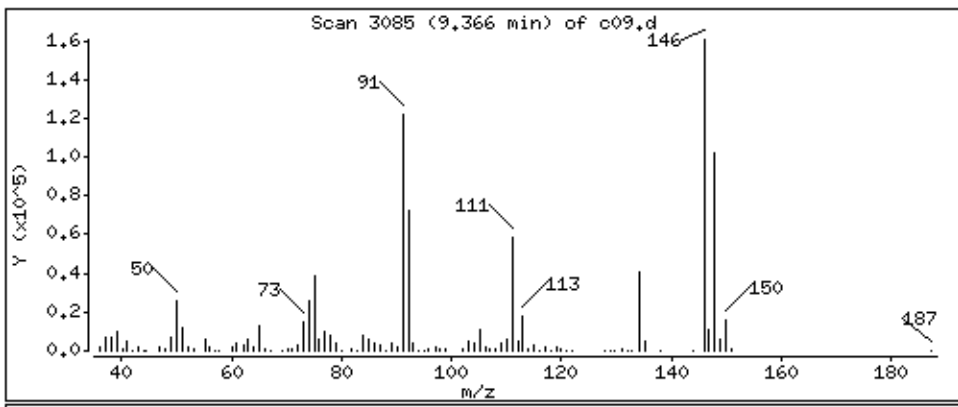
Operator: dae

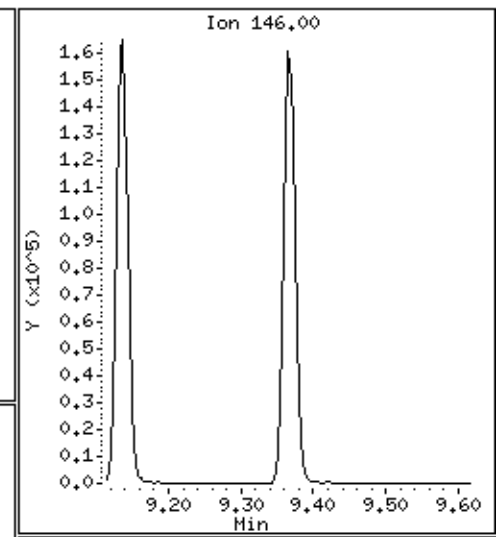
Column phase: DB-624

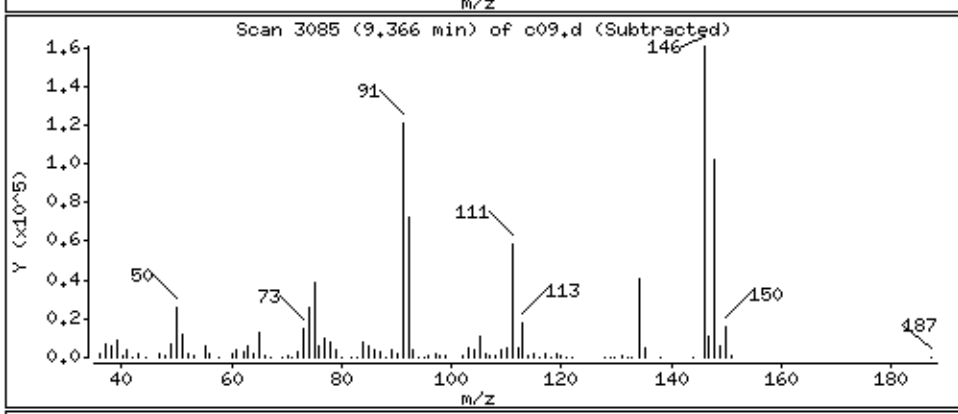
Column diameter: 0.18

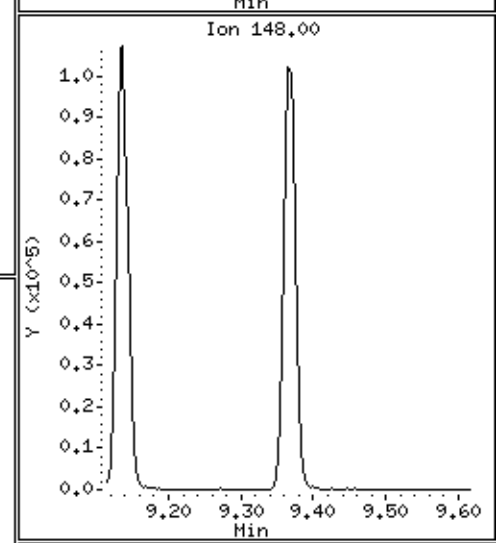
94 1,2-Dichlorobenzene

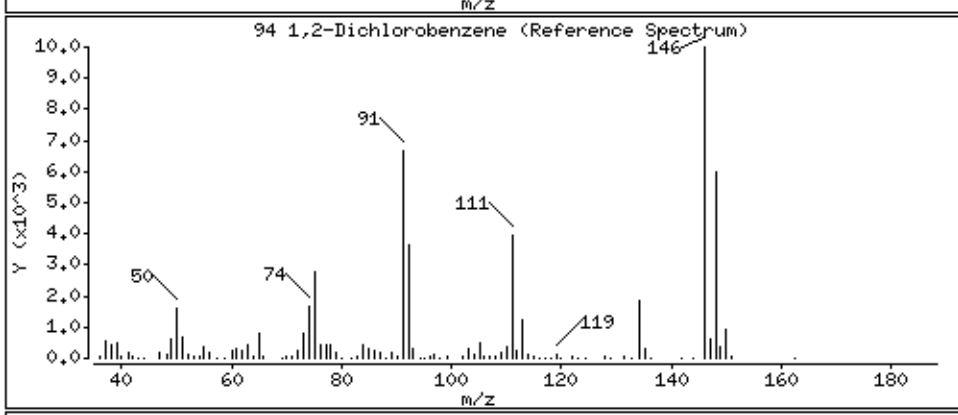
Concentration: 39.2 ppb

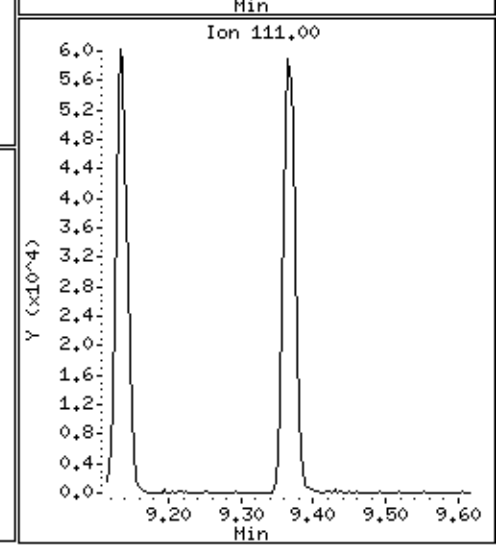


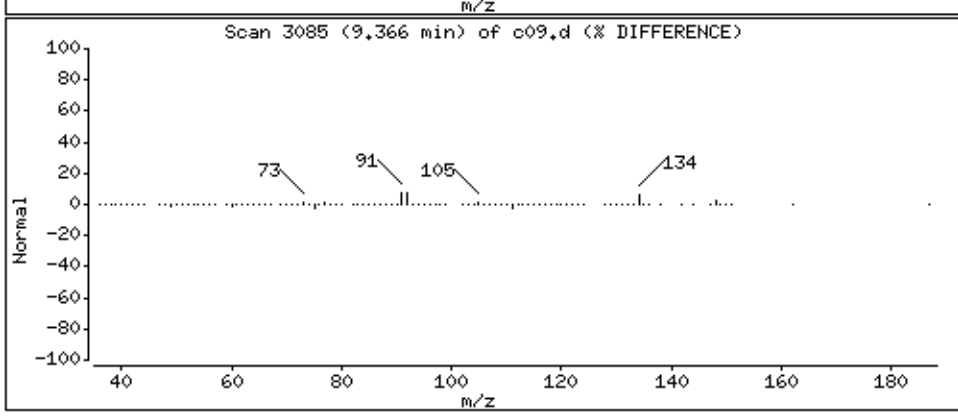












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

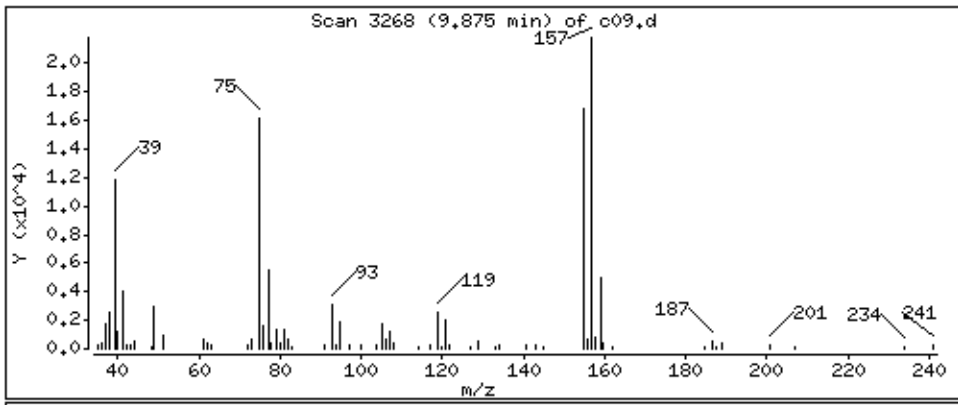
Operator: dae

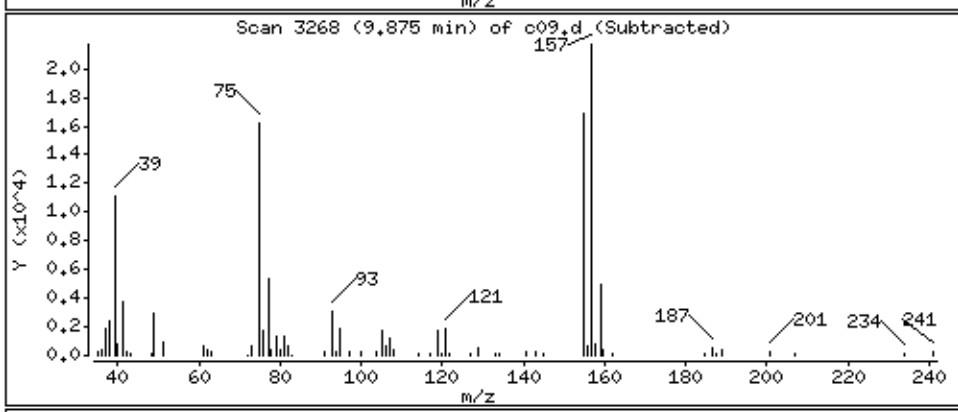
Column phase: DB-624

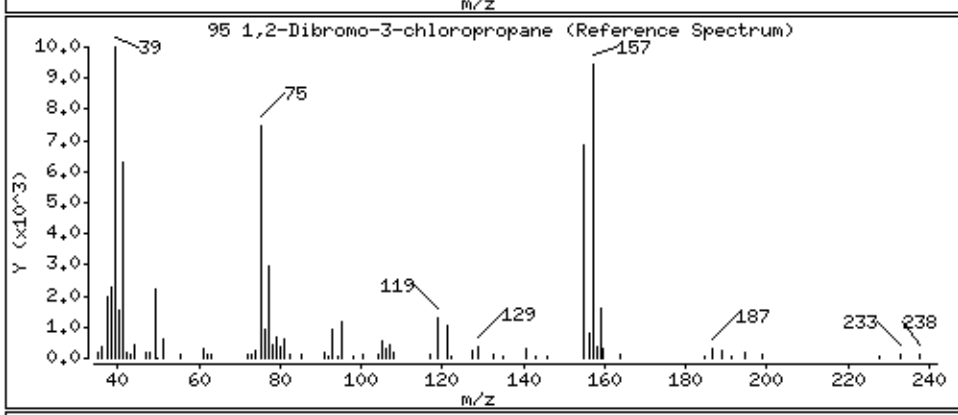
Column diameter: 0.18

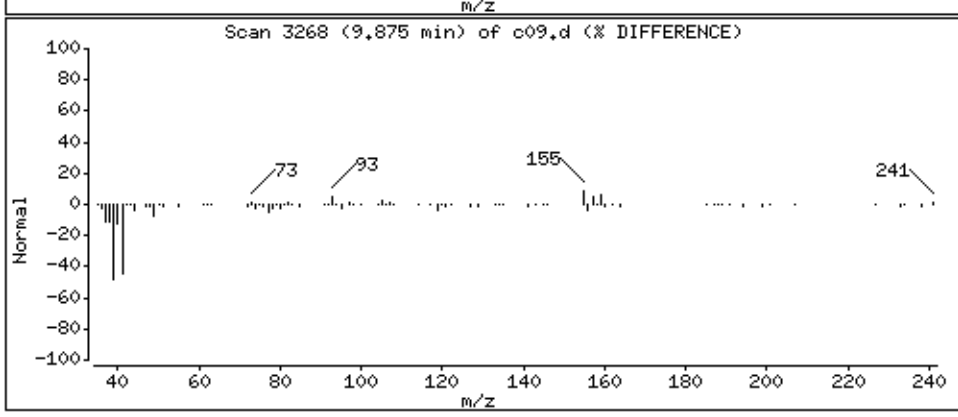
95 1,2-Dibromo-3-chloropropane

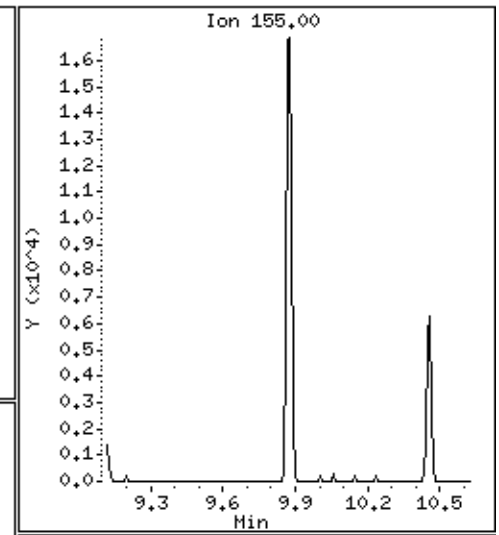
Concentration: 33.0 ppb

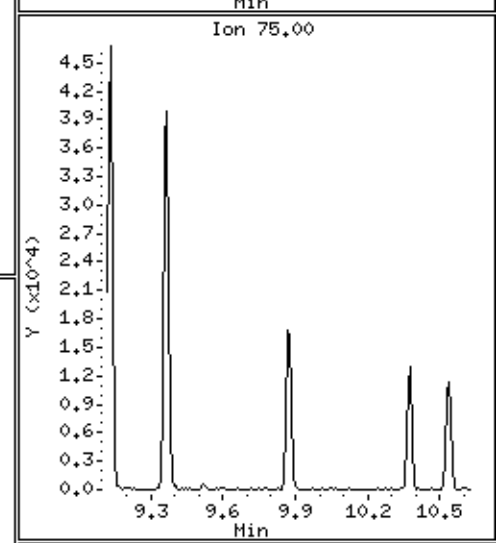


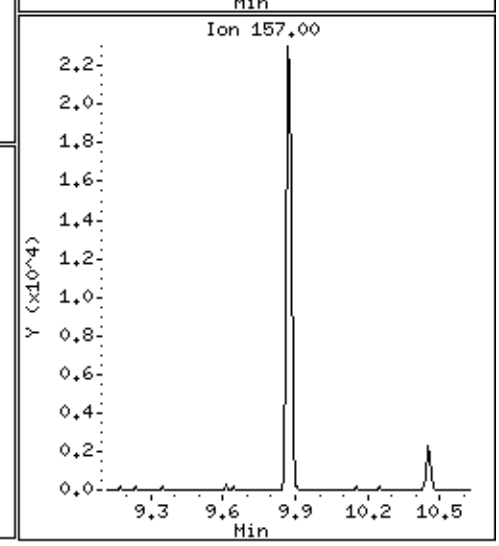












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

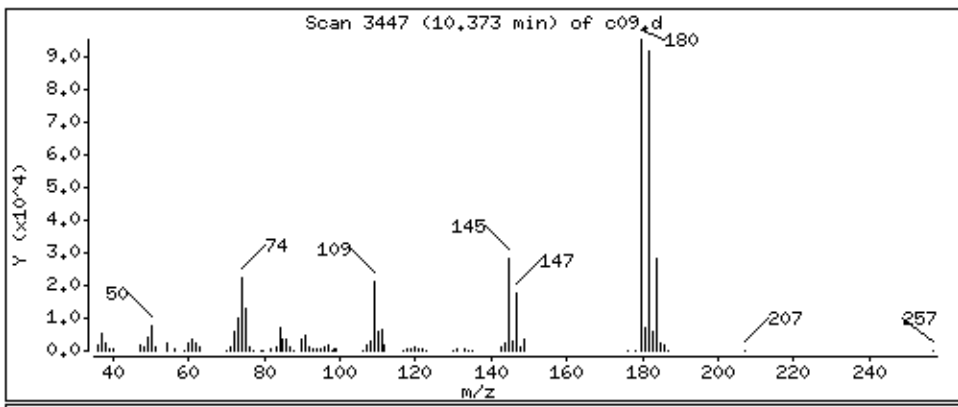
Operator: dae

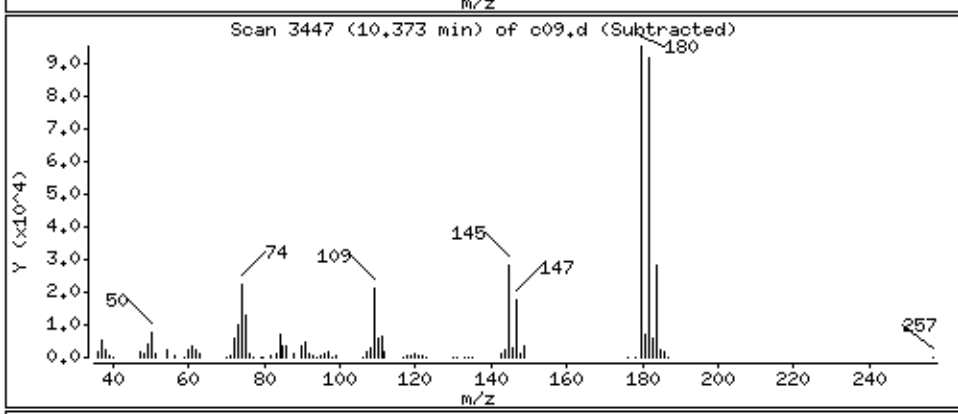
Column phase: DB-624

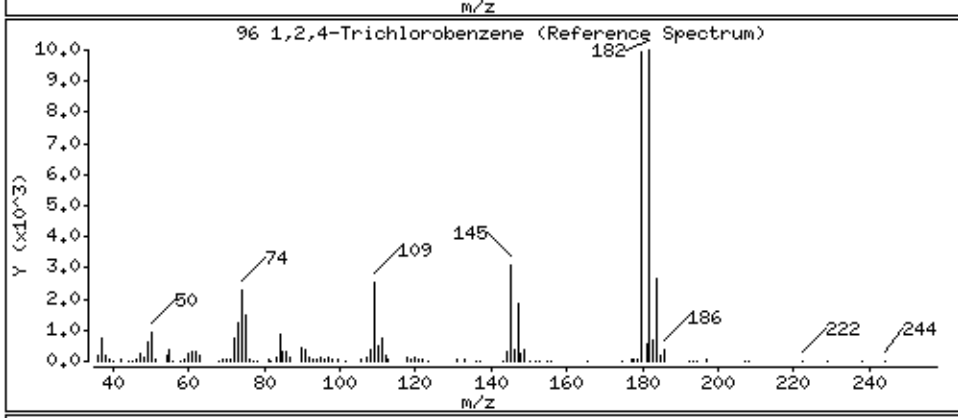
Column diameter: 0.18

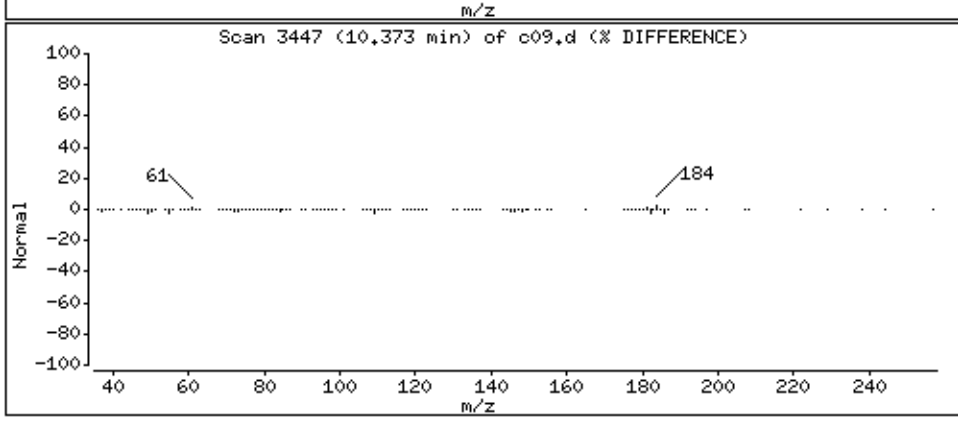
96 1,2,4-Trichlorobenzene

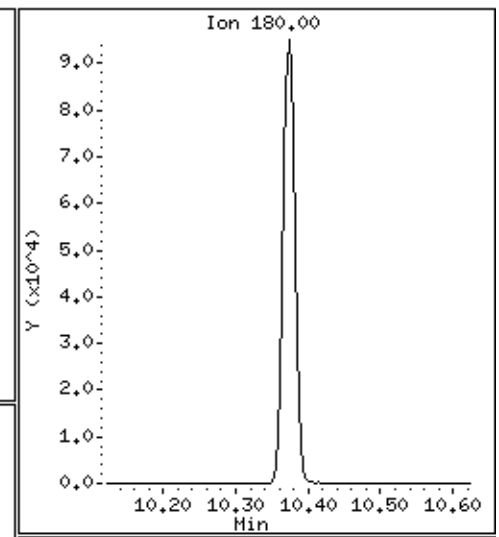
Concentration: 38.3 ppb

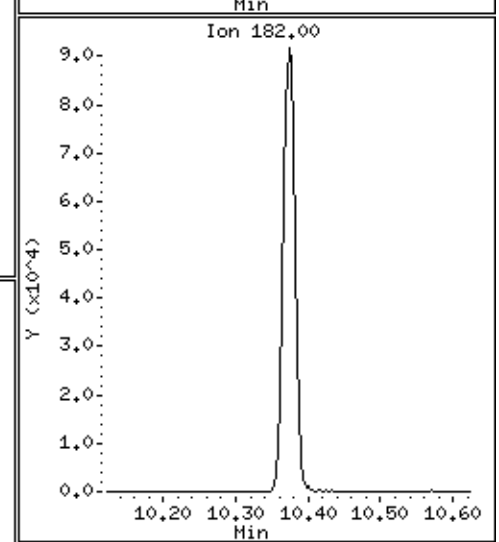


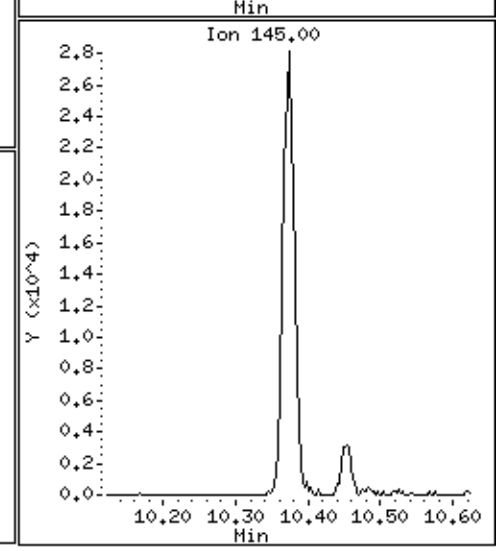












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

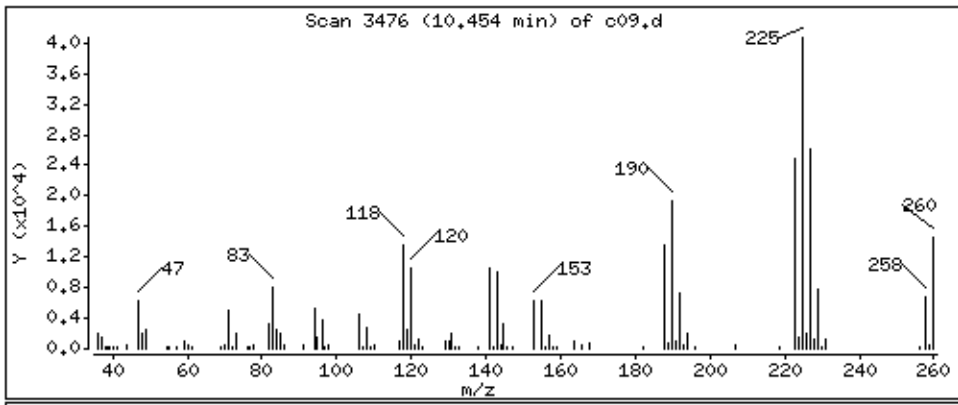
Operator: dae

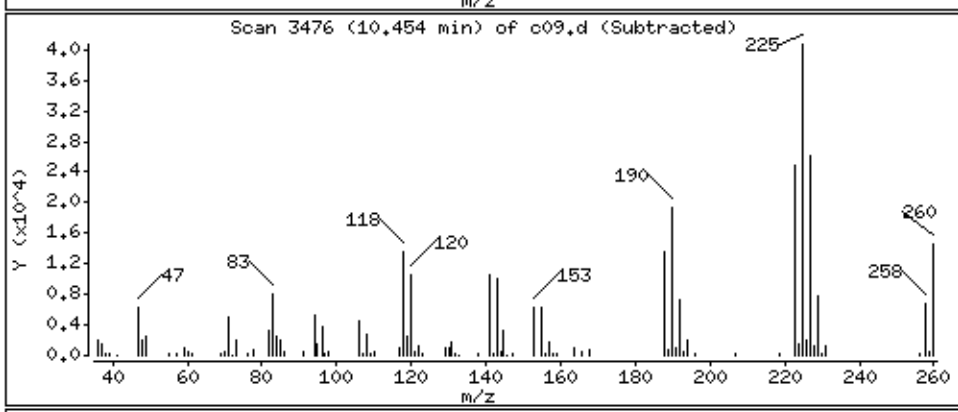
Column phase: DB-624

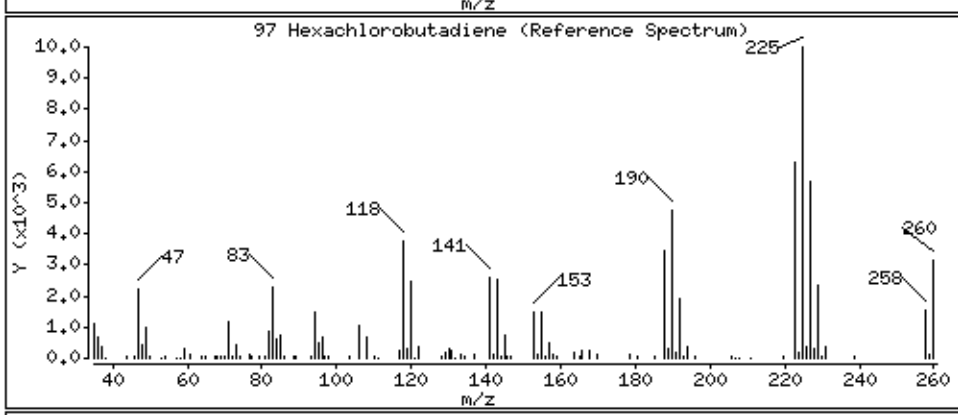
Column diameter: 0.18

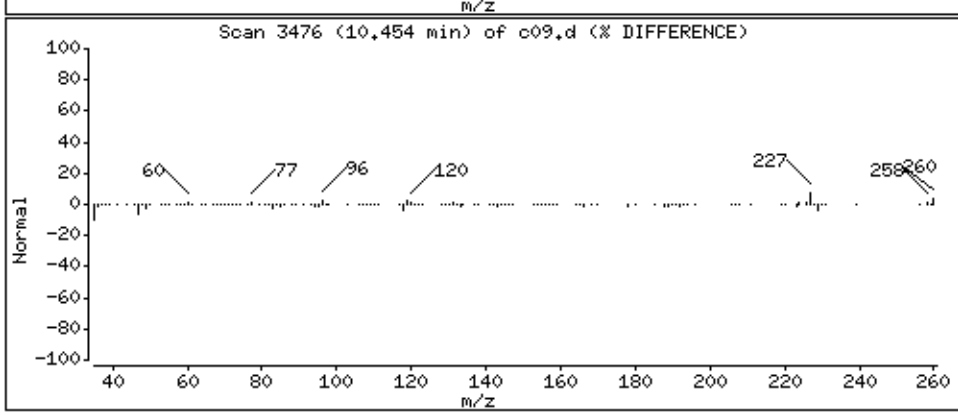
97 Hexachlorobutadiene

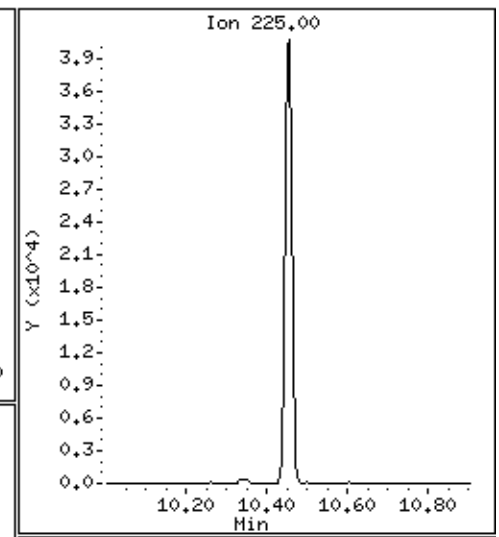
Concentration: 39.9 ppb

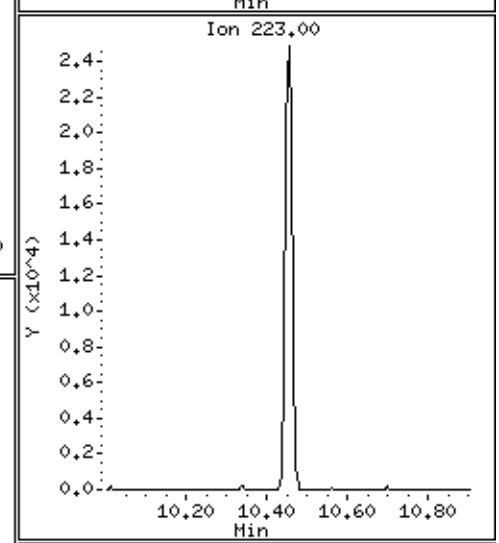


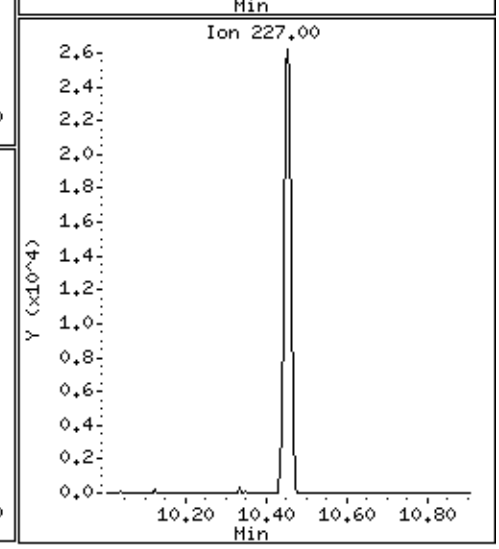












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

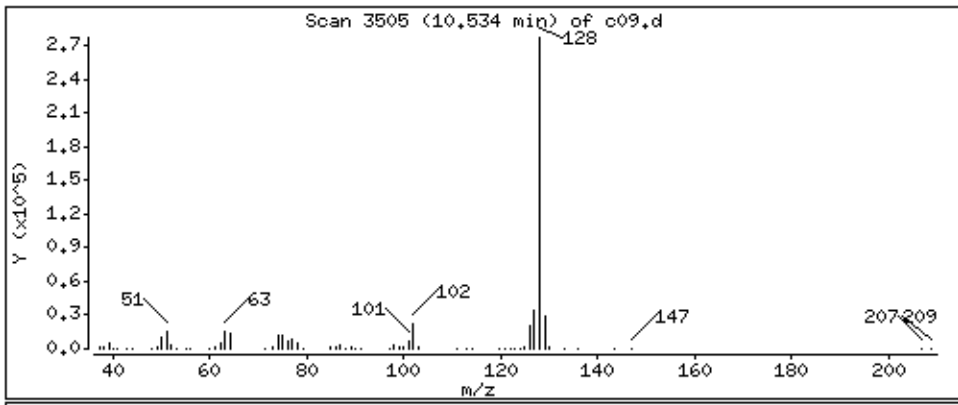
Operator: dae

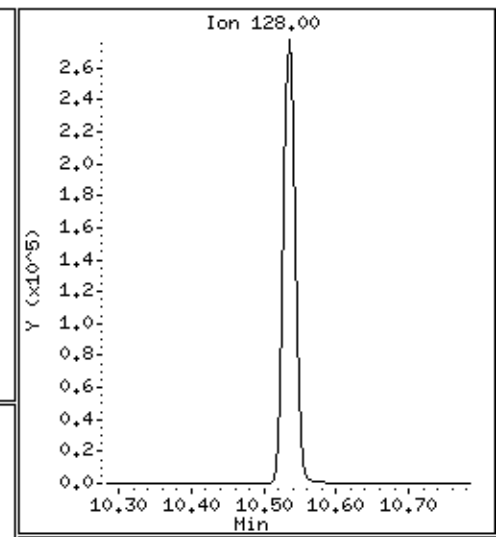
Column phase: DB-624

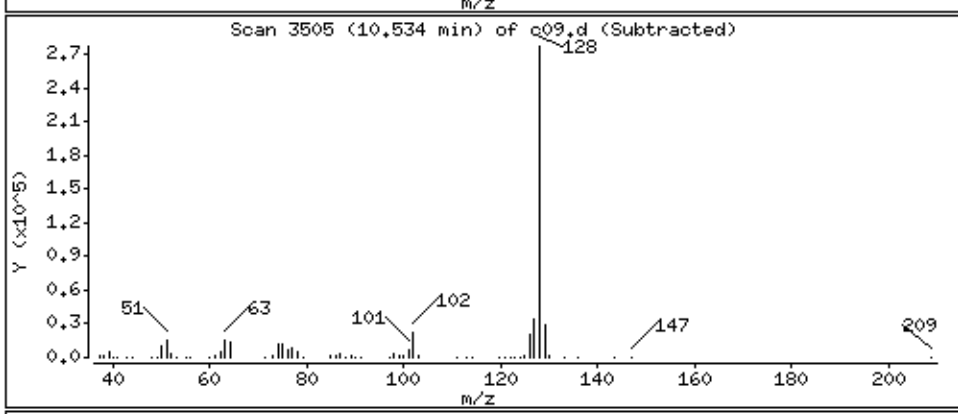
Column diameter: 0.18

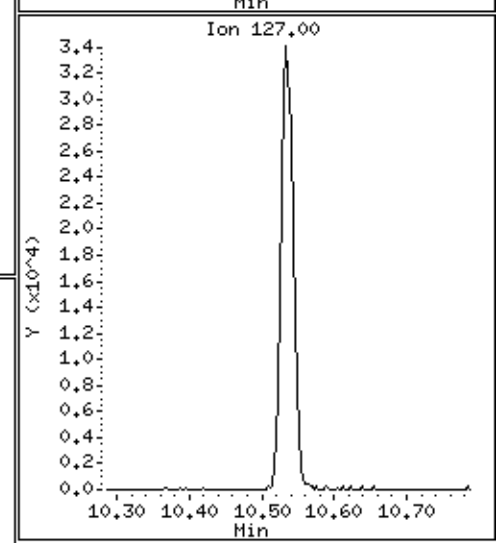
98 Naphthalene

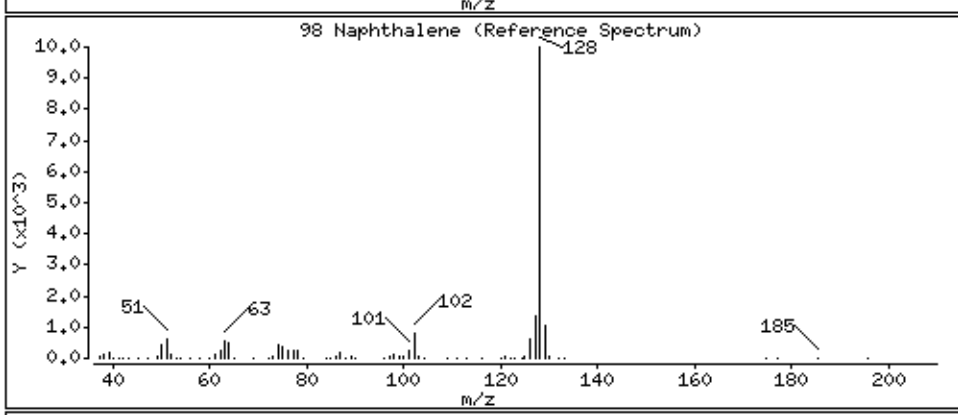
Concentration: 37.9 ppb

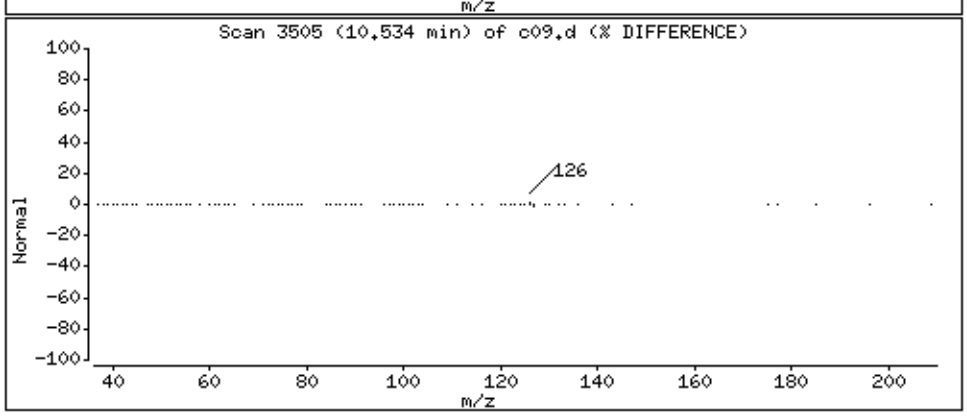












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

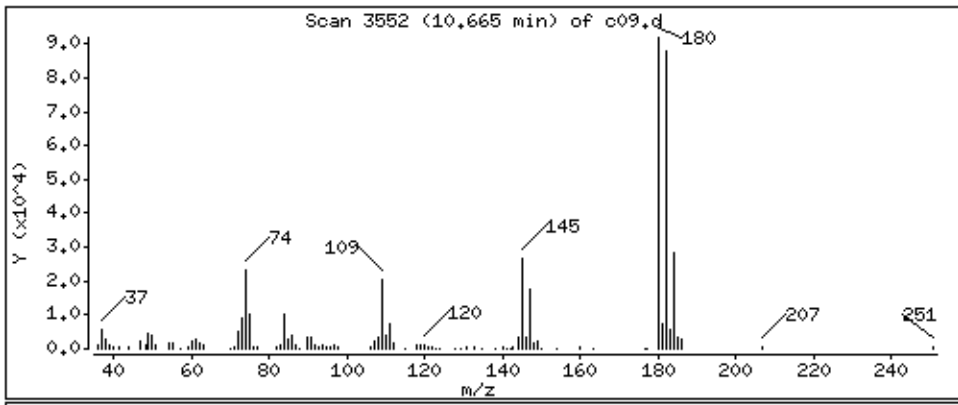
Operator: dae

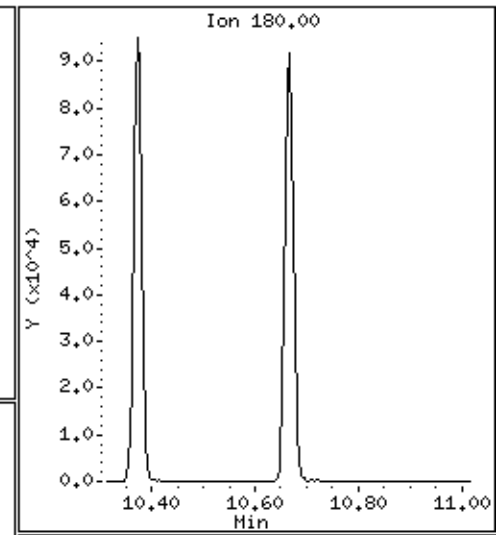
Column phase: DB-624

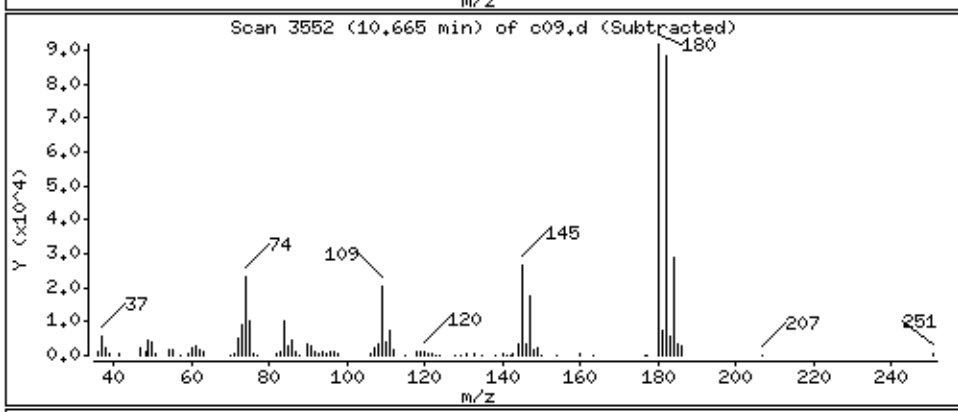
Column diameter: 0.18

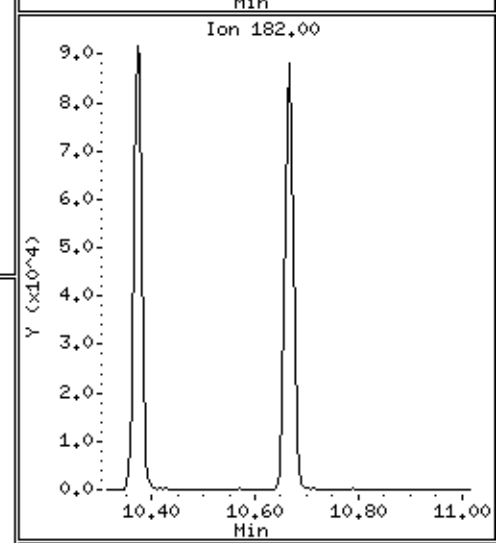
99 1,2,3-Trichlorobenzene

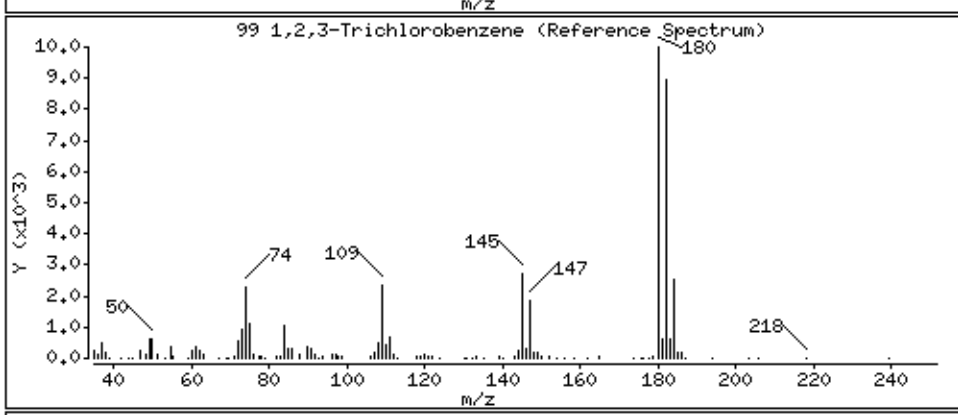
Concentration: 39.8 ppb

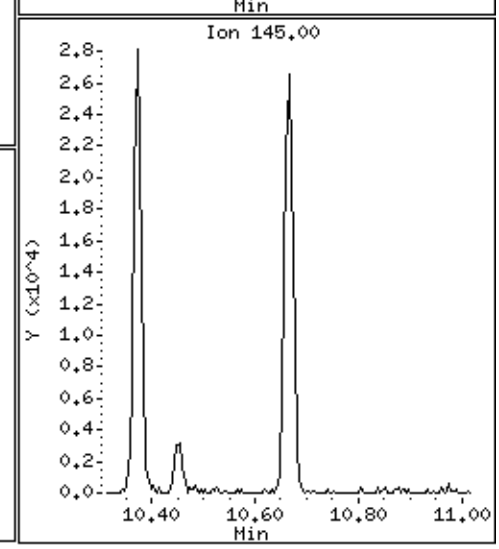


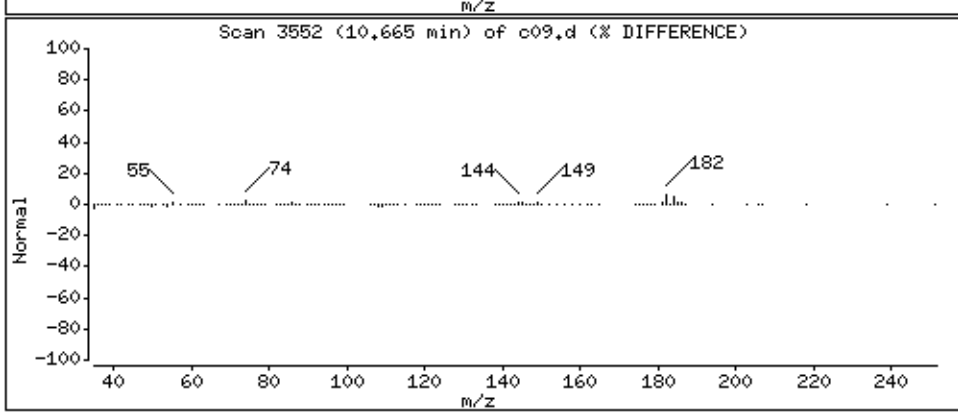












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

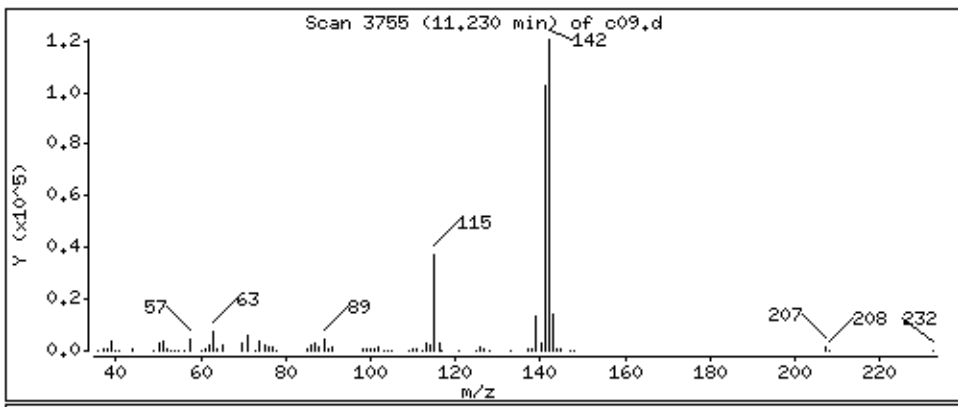
Operator: dae

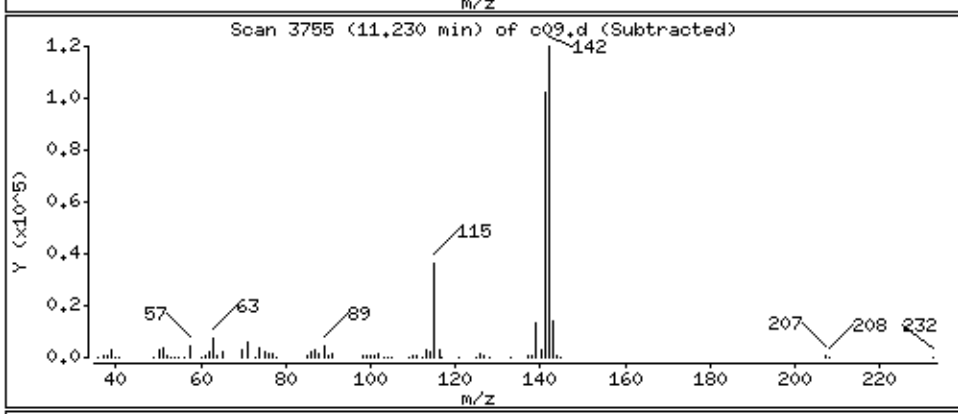
Column phase: DB-624

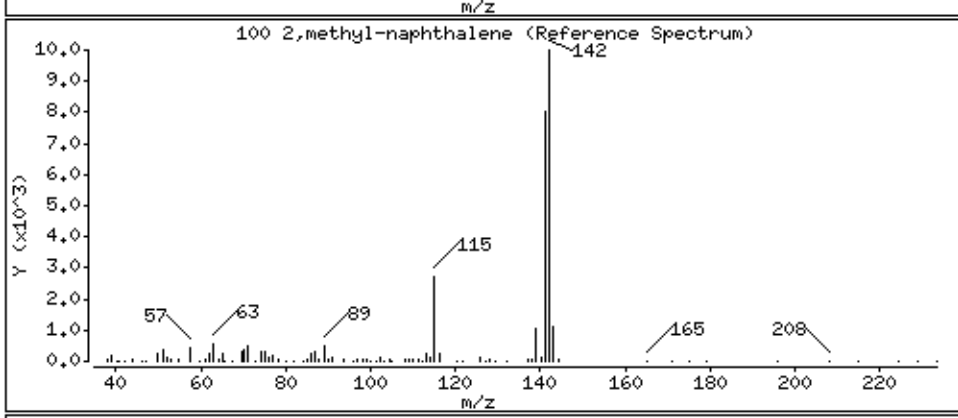
Column diameter: 0.18

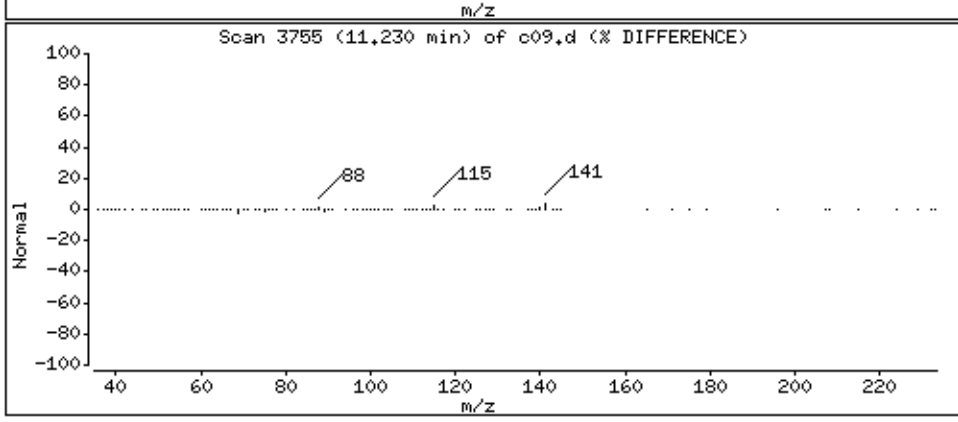
100 2,methyl-naphthalene

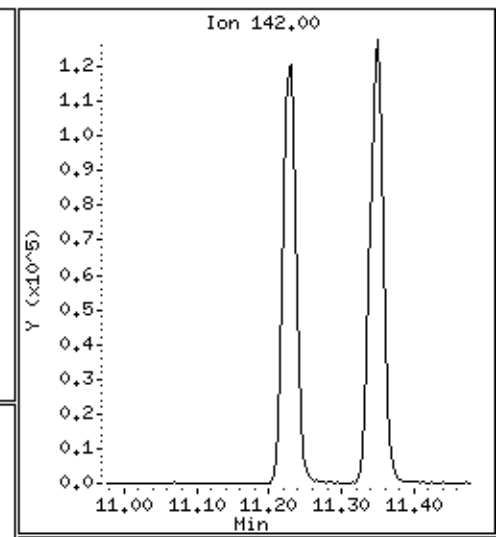
Concentration: 32.8 ppb

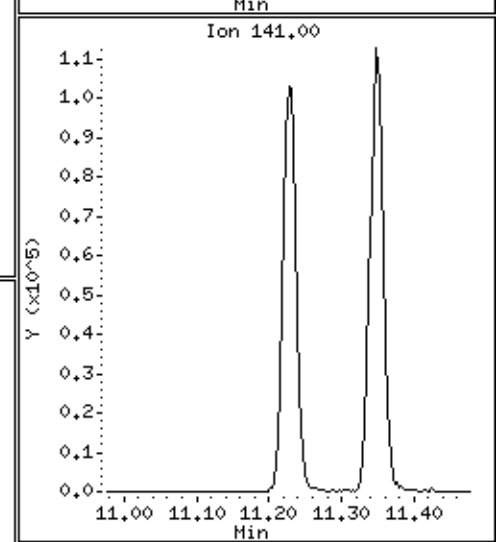


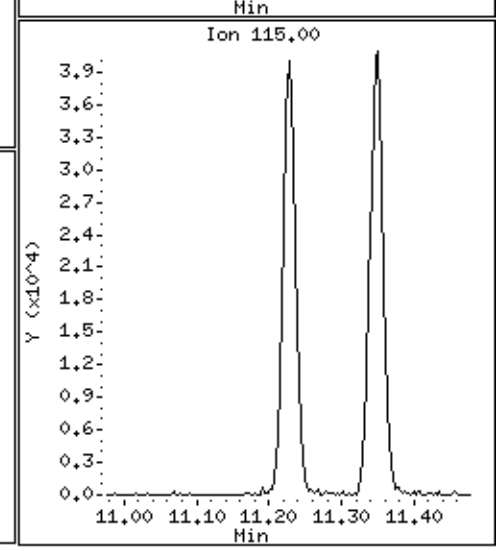












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b\c09.d

Date : 25-JAN-2017 17:34

Client ID: MW-2MSD

Instrument: 50mv2a.i

Sample Info: 1713804,140393:5

Purge Volume: 5.0

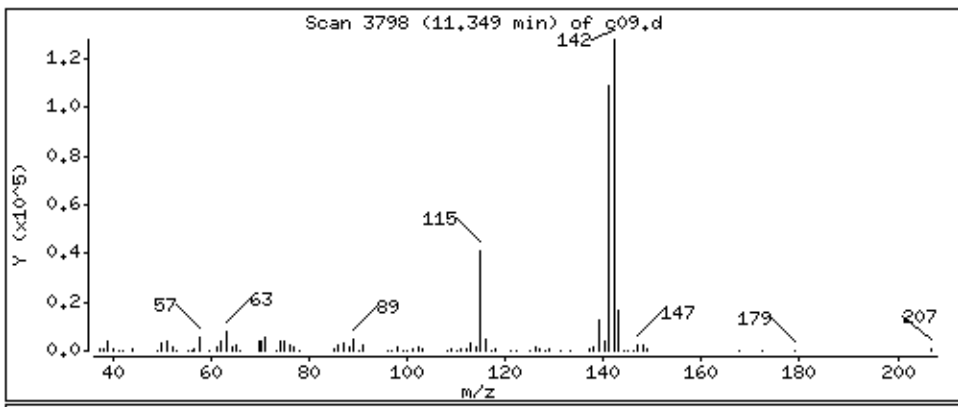
Operator: dae

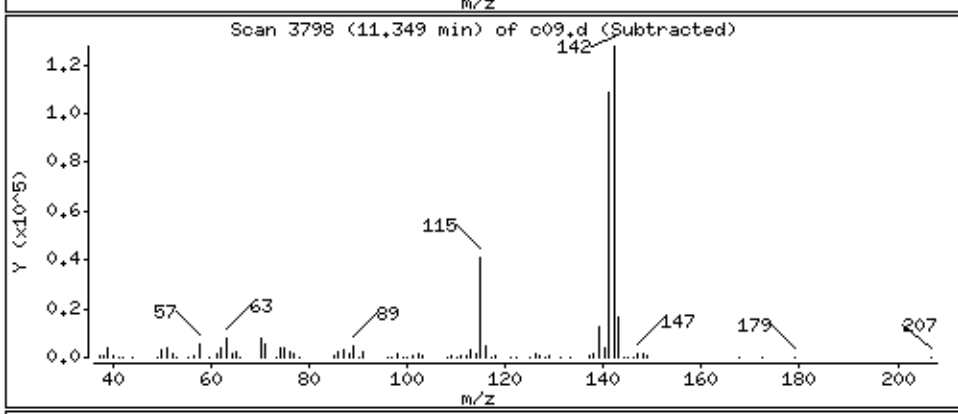
Column phase: DB-624

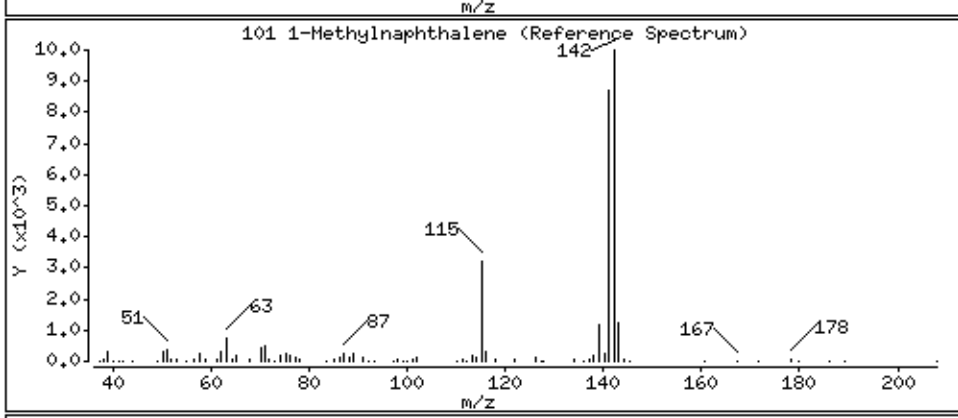
Column diameter: 0.18

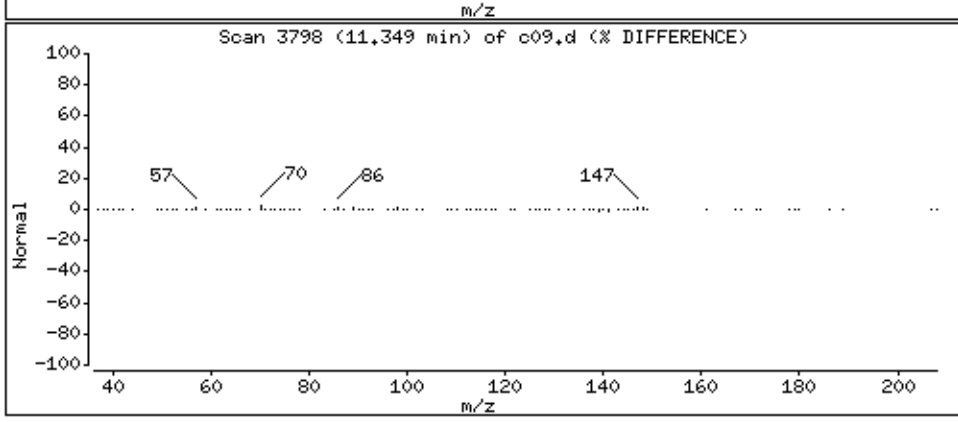
101 1-Methylnaphthalene

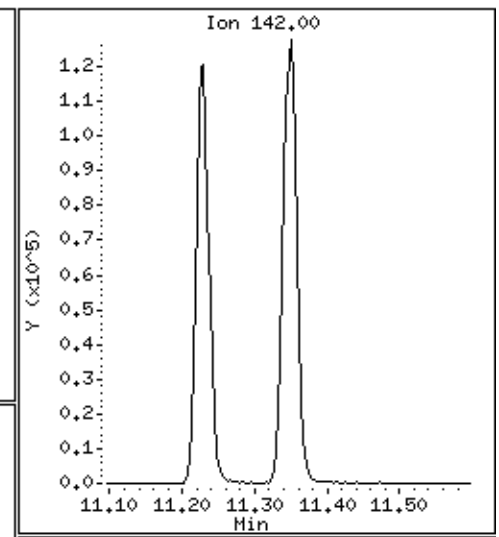
Concentration: 41.4 ppb

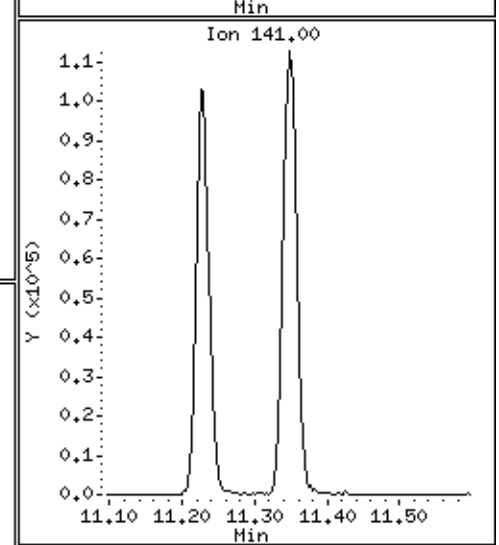


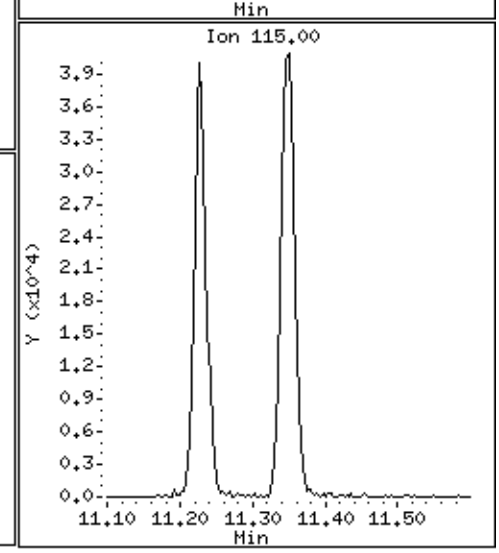












Data File: \\192.168.50.6\chem\50mv2a.i\a012417.b/c09.d
Injection Date: 25-JAN-2017 17:34
Instrument: 50mv2a.i
Lab Sample ID: 1713804
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

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MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 01:50
Lab Sample ID: 1714601
Date Analyzed: 01/26/2017 01:50
Lab File ID: A012517.B\A04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
107-02-8	Acrolein	ND	U
107-13-1	Acrylonitrile	ND	U
71-43-2	Benzene	ND	U
108-86-1	Bromobenzene	ND	U
74-97-5	Bromochloromethane	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
104-51-8	n-Butylbenzene	ND	U
135-98-8	sec-Butylbenzene	ND	U
98-06-6	tert-Butylbenzene	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
95-49-8	2-Chlorotoluene	ND	U
106-43-4	4-Chlorotoluene	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
74-95-3	Dibromomethane	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U

SAMPLE NO.

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MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 01:50
Lab Sample ID: 1714601
Date Analyzed: 01/26/2017 01:50
Lab File ID: A012517.B\A04MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
97-63-2	Ethyl methacrylate	ND	U
87-68-3	Hexachloro-1,3-butadiene	ND	U
110-54-3	n-Hexane	ND	U
591-78-6	2-Hexanone	ND	U
74-88-4	Iodomethane	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
99-87-6	p-Isopropyltoluene	ND	U
75-09-2	Methylene Chloride	ND	U
90-12-0	1-Methylnaphthalene	ND	U
91-57-6	2-Methylnaphthalene	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
91-20-3	Naphthalene	ND	U
103-65-1	n-Propylbenzene	ND	U
100-42-5	Styrene	ND	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
87-61-6	1,2,3-Trichlorobenzene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
96-18-4	1,2,3-Trichloropropane	ND	U
95-63-6	1,2,4-Trimethylbenzene	ND	U
108-67-8	1,3,5-Trimethylbenzene	ND	U
108-05-4	Vinyl acetate	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012517.b\a04mb.d
Lab Smp Id: 1714601 Client Smp ID: MB
Inj Date : 26-JAN-2017 01:50
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1714601
Misc Info : 99197
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012517.b\-a8260_a_c.m
Meth Date : 26-Jan-2017 01:09 dengelhard Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAE1

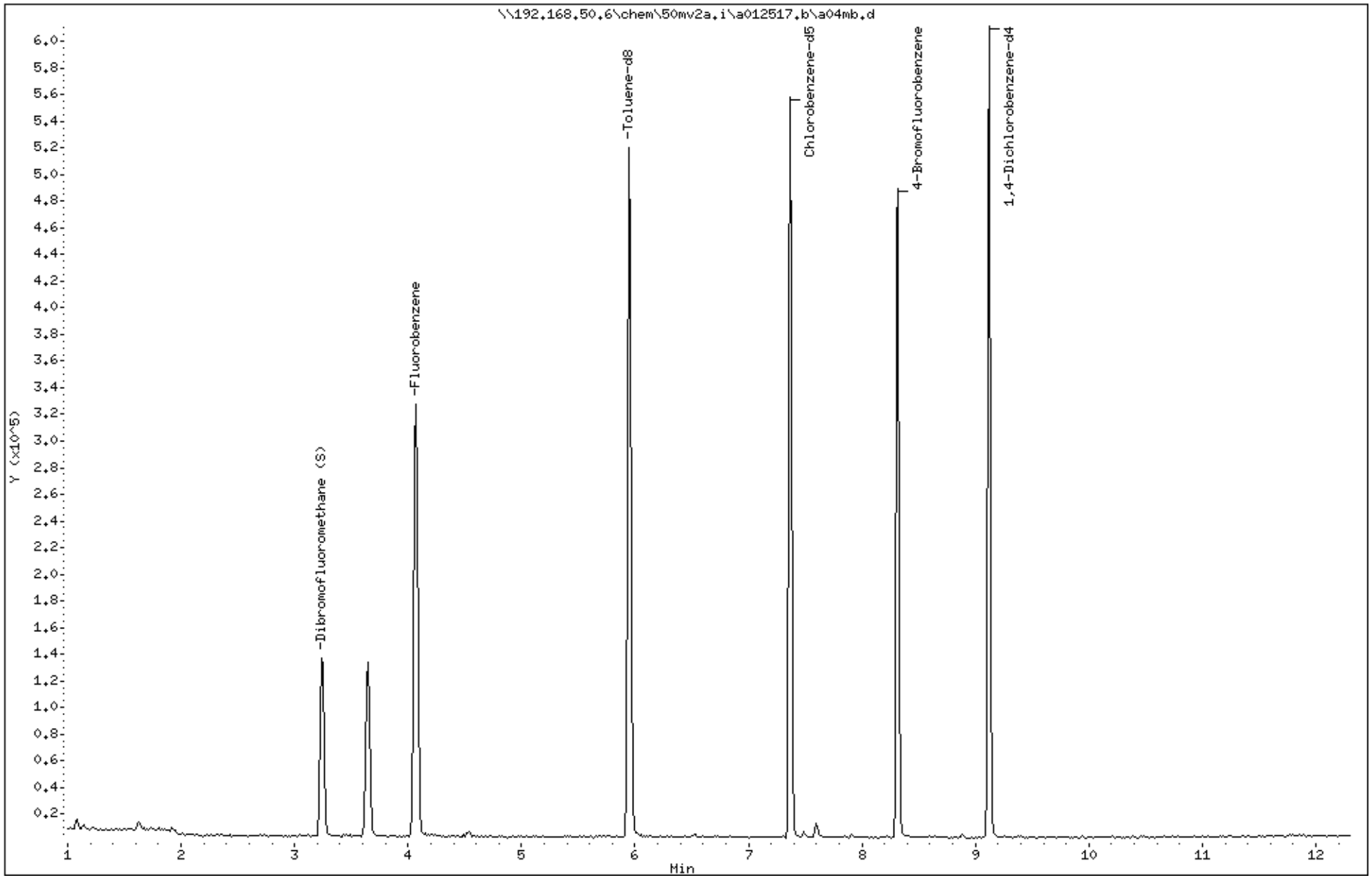
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
13 Iodomethane	142	1.630	1.628	(0.401)	3126	1.80548	1.80	
$ 36 Dibromofluoromethane (S)	113	3.239	3.239	(0.796)	78540	50.4447	50.4	
* 45 Fluorobenzene	96	4.068	4.068	(1.000)	308693	50.0000		
$ 57 Toluene-d8	98	5.949	5.949	(0.807)	294918	49.3967	49.4	
* 67 Chlorobenzene-d5	117	7.367	7.367	(1.000)	229971	50.0000		
71 m&p-Xylene	106	7.598	7.596	(1.031)	3211	0.91439	0.914	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	104035	50.8749	50.9	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	110332	50.0000		

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a04mb.d
Date : 26-JAN-2017 01:50
Client ID: MB
Sample Info: 1714601
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a04mb.d

Date : 26-JAN-2017 01:50

Client ID: MB

Instrument: 50mv2a.i

Sample Info: 1714601

Purge Volume: 5.0

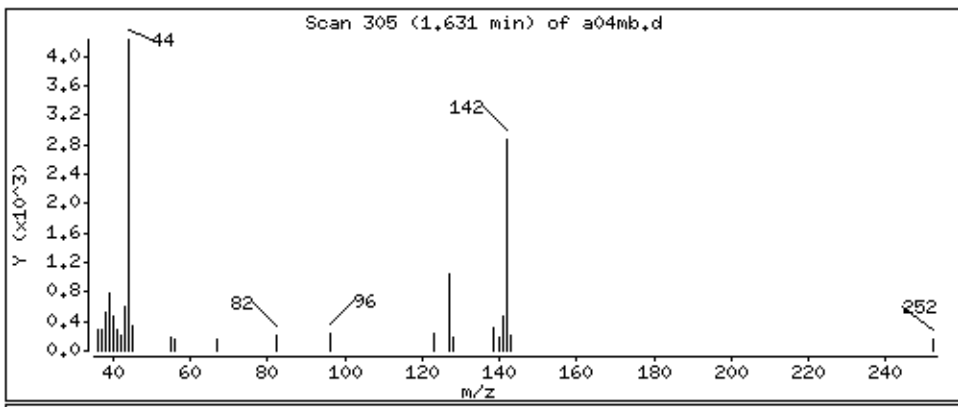
Operator: dae

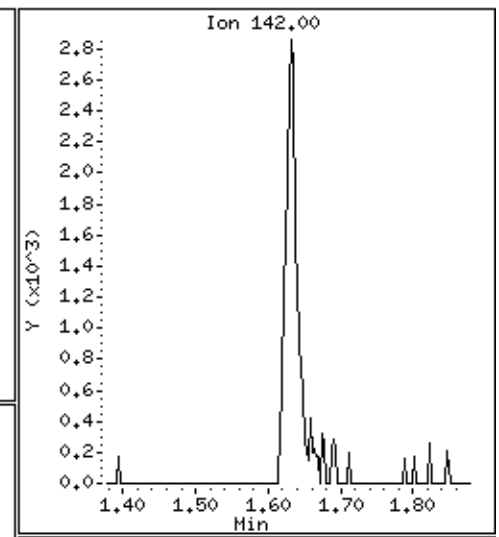
Column phase: DB-624

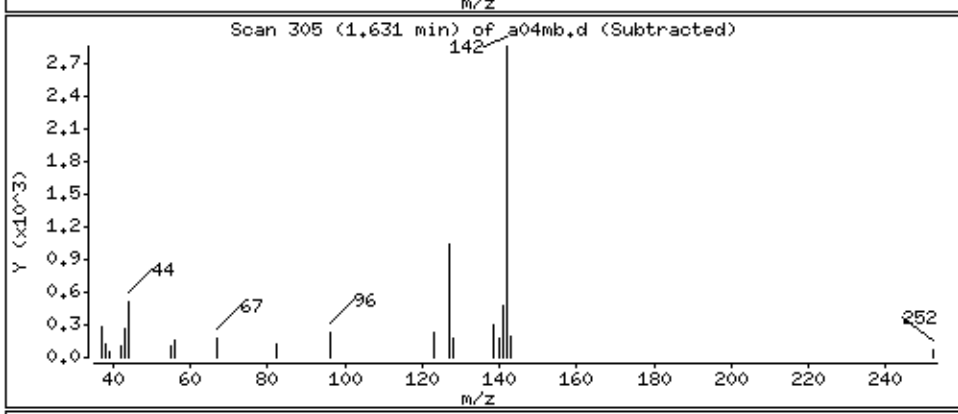
Column diameter: 0.18

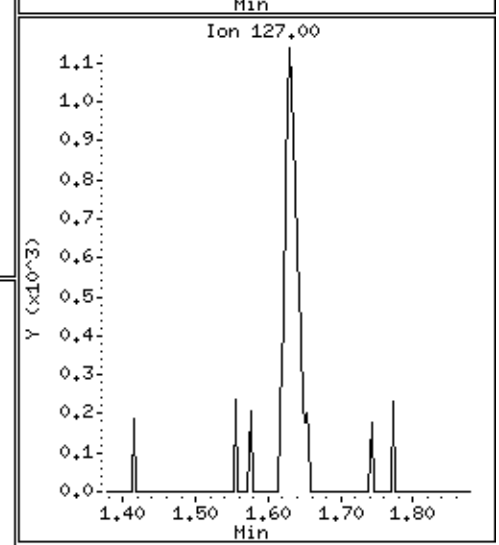
13 Iodomethane

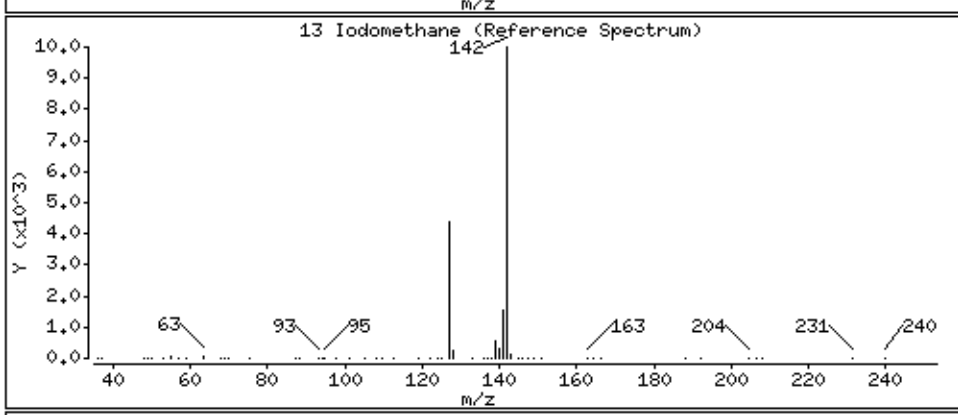
Concentration: 1.80 ppb

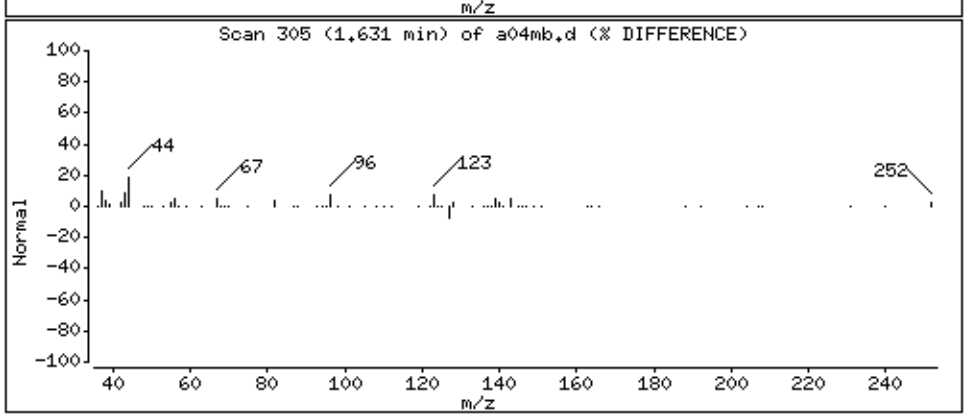












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a04mb.d

Date : 26-JAN-2017 01:50

Client ID: MB

Instrument: 50mv2a.i

Sample Info: 1714601

Purge Volume: 5.0

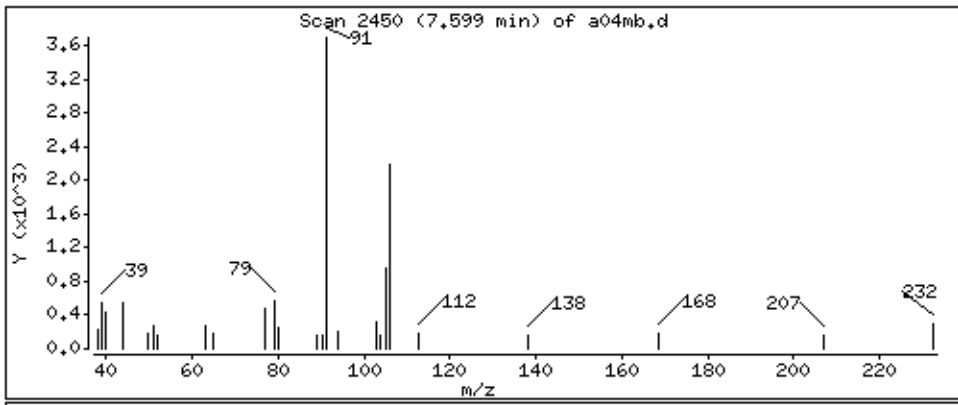
Operator: dae

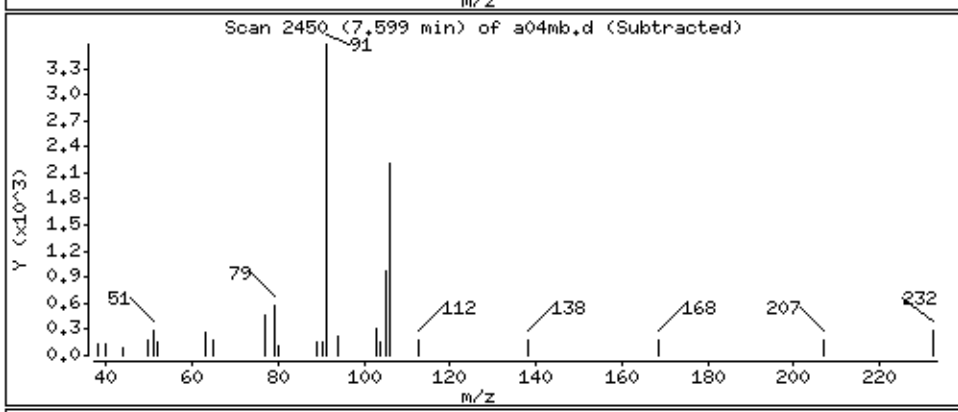
Column phase: DB-624

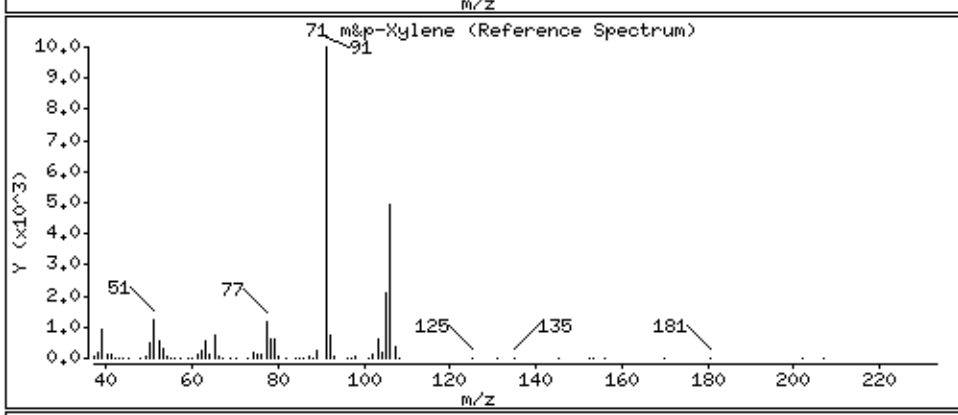
Column diameter: 0.18

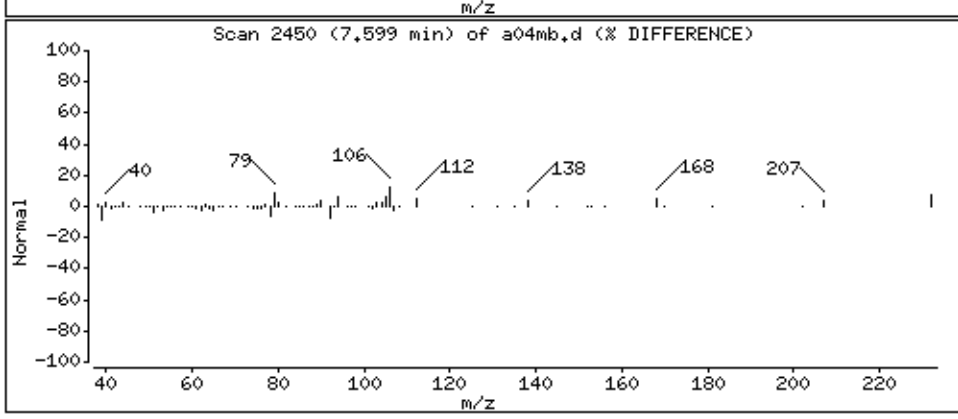
71 m&p-Xylene

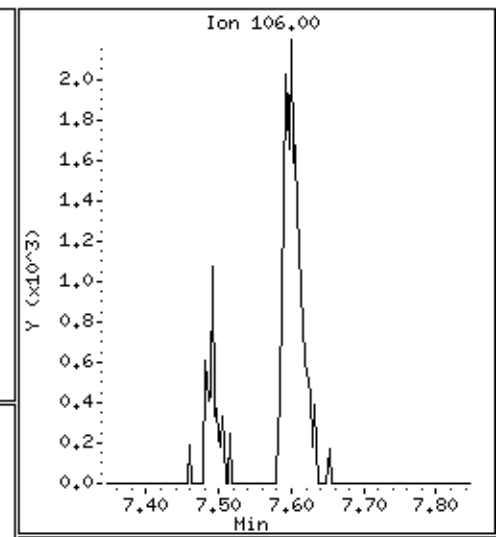
Concentration: 0.914 ppb

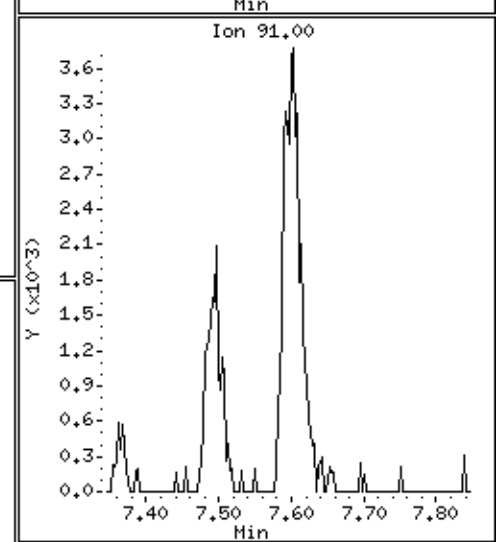


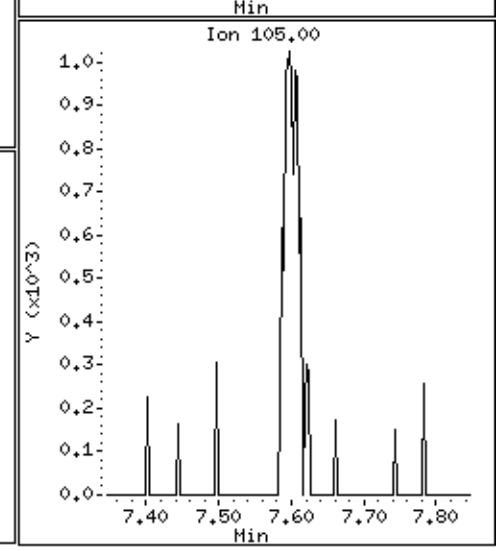












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b/a04mb.d
Injection Date: 26-JAN-2017 01:50
Instrument: 50mv2a.i
Lab Sample ID: 1714601
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 00:44
Lab Sample ID: 1714602
Date Analyzed: 01/26/2017 00:44
Lab File ID: A012517.B\A02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	235	
107-02-8	Acrolein	1240	
107-13-1	Acrylonitrile	181	
71-43-2	Benzene	45.9	
108-86-1	Bromobenzene	47.1	
74-97-5	Bromochloromethane	46.6	
75-27-4	Bromodichloromethane	45.7	
75-25-2	Bromoform	39.7	
74-83-9	Bromomethane	42.7	
78-93-3	2-Butanone (MEK)	222	
104-51-8	n-Butylbenzene	49.9	
135-98-8	sec-Butylbenzene	51.3	
98-06-6	tert-Butylbenzene	42.4	
75-15-0	Carbon disulfide	41.0	
56-23-5	Carbon tetrachloride	46.5	
108-90-7	Chlorobenzene	46.9	
75-00-3	Chloroethane	46.1	
67-66-3	Chloroform	47.5	
74-87-3	Chloromethane	35.9	
95-49-8	2-Chlorotoluene	50.3	
106-43-4	4-Chlorotoluene	49.5	
124-48-1	Dibromochloromethane	44.3	
106-93-4	1,2-Dibromoethane (EDB)	48.3	
74-95-3	Dibromomethane	47.1	
95-50-1	1,2-Dichlorobenzene	48.9	
541-73-1	1,3-Dichlorobenzene	48.1	
106-46-7	1,4-Dichlorobenzene	45.2	
110-57-6	trans-1,4-Dichloro-2-butene	171	
75-71-8	Dichlorodifluoromethane	52.6	
75-34-3	1,1-Dichloroethane	45.2	
107-06-2	1,2-Dichloroethane	47.7	
75-35-4	1,1-Dichloroethene	43.1	
156-59-2	cis-1,2-Dichloroethene	45.8	
156-60-5	trans-1,2-Dichloroethene	45.0	
78-87-5	1,2-Dichloropropane	45.7	
142-28-9	1,3-Dichloropropane	49.4	
594-20-7	2,2-Dichloropropane	45.0	

SAMPLE NO.

LCS

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: Quick Shop-S&P Petro
Date Received:
Matrix: Water SDG No.: 50163373
Date Extracted: 01/26/2017 00:44
Lab Sample ID: 1714602
Date Analyzed: 01/26/2017 00:44
Lab File ID: A012517.B\A02LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	48.7	
10061-01-5	cis-1,3-Dichloropropene	45.9	
10061-02-6	trans-1,3-Dichloropropene	45.6	
100-41-4	Ethylbenzene	48.4	
97-63-2	Ethyl methacrylate	191	
87-68-3	Hexachloro-1,3-butadiene	48.6	
110-54-3	n-Hexane	44.1	
591-78-6	2-Hexanone	240	
74-88-4	Iodomethane	75.6	
98-82-8	Isopropylbenzene (Cumene)	50.2	
99-87-6	p-Isopropyltoluene	50.7	
75-09-2	Methylene Chloride	46.6	
90-12-0	1-Methylnaphthalene	49.1	
91-57-6	2-Methylnaphthalene	40.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	221	
1634-04-4	Methyl-tert-butyl ether	42.9	
91-20-3	Naphthalene	45.4	
103-65-1	n-Propylbenzene	55.0	
100-42-5	Styrene	49.7	
630-20-6	1,1,1,2-Tetrachloroethane	47.0	
79-34-5	1,1,2,2-Tetrachloroethane	51.7	
127-18-4	Tetrachloroethene	41.2	
108-88-3	Toluene	47.8	
87-61-6	1,2,3-Trichlorobenzene	48.3	
120-82-1	1,2,4-Trichlorobenzene	47.1	
71-55-6	1,1,1-Trichloroethane	44.4	
79-00-5	1,1,2-Trichloroethane	47.5	
79-01-6	Trichloroethene	46.0	
75-69-4	Trichlorofluoromethane	55.1	
96-18-4	1,2,3-Trichloropropane	51.6	
95-63-6	1,2,4-Trimethylbenzene	50.2	
108-67-8	1,3,5-Trimethylbenzene	50.6	
108-05-4	Vinyl acetate	169	
75-01-4	Vinyl chloride	50.1	
1330-20-7	Xylene (Total)	147	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d
Lab Smp Id: 1714602,140393:5 Client Smp ID: 1714602,140393:5
Inj Date : 26-JAN-2017 00:44
Operator : dae Inst ID: 50mv2a.i
Smp Info : 1714602,140393:5
Misc Info : 99197
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012517.b\-a8260_a_c.m
Meth Date : 26-Jan-2017 01:09 dengelhard Quant Type: ISTD
Cal Date : 23-JAN-2017 01:44 Cal File: a08cal8.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.874	0.874	(0.215)	103172	52.5870	52.6	
2 Chloromethane	50	0.951	0.952	(0.234)	79834	35.9279	35.9	
3 Vinyl Chloride	62	0.999	0.999	(0.246)	134688	50.1038	50.1	
4 Bromomethane	94	1.141	1.138	(0.281)	53343	42.7241	42.7	
5 Chloroethane	64	1.185	1.183	(0.291)	78748	46.0748	46.1	
6 Trichlorofluoromethane	101	1.296	1.294	(0.319)	183850	55.1431	55.1	
7 Diethyl ether	74	1.419	1.416	(0.349)	67306	42.1324	42.1	
8 1,2-dichlorotrifluoroethane	67	1.433	1.433	(0.352)	132683	43.6821	43.7	
9 Acrolein	56	1.488	1.489	(0.366)	443002	1238.27	1240	
10 1,1,2trichlorotrifluoroethane	101	1.538	1.536	(0.378)	109100	43.4668	43.5	
11 1,1-Dichloroethene	96	1.541	1.541	(0.379)	88637	43.1442	43.1	
12 Acetone	43	1.555	1.555	(0.382)	182232	234.607	235	
13 Iodomethane	142	1.628	1.628	(0.400)	218729	75.5912	75.6	
14 Carbon Disulfide	76	1.672	1.672	(0.411)	261061	41.0170	41.0	
15 Methyl Acetate	43	1.719	1.717	(0.423)	184407	65.5503	65.6	
16 Acetonitrile	39	1.730	1.733	(0.425)	209897	38.4947	38.5	
17 allyl chloride	41	1.733	1.733	(0.426)	309582	80.8262	80.8	
18 Methylene Chloride	84	1.806	1.806	(0.444)	94665	46.5705	46.6	
19 tert-Butyl Alcohol	59	1.853	1.856	(0.456)	24050	87.0470	87.0	
20 Acrylonitrile	53	1.942	1.942	(0.477)	177658	181.178	181	
21 Methyl-tert-butyl ether	73	1.964	1.964	(0.483)	317419	42.9404	42.9	
22 1,2-Dichloroethene (trans)	96	1.975	1.973	(0.486)	98593	45.0089	45.0	
23 n-Hexane	57	2.148	2.148	(0.528)	138215	44.1042	44.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.262	2.262	(0.556)	826573	168.861	169	
25 1,1-Dichloroethane	63	2.270	2.270	(0.558)	180986	45.2031	45.2	
26 Chloroprene	53	2.323	2.320	(0.571)	166648	47.0104	47.0	
27 Ethyl acetate	88	2.729	2.763	(0.671)	1760	12.7558	12.8(Q)	
28 2-Butanone	72	2.721	2.724	(0.669)	74941	221.557	222(Q)	
29 1,2-Dichloroethene (cis)	96	2.735	2.732	(0.672)	110646	45.8176	45.8(Q)	
30 2,2-Dichloropropane	77	2.738	2.738	(0.673)	153785	44.9508	45.0	
31 Propionitrile	54	2.779	2.780	(0.683)	15808	39.5758	39.6(Q)	
32 Methacrylonitrile	41	2.921	2.924	(0.718)	292596	187.029	187	
33 Bromochloromethane	49	2.960	2.960	(0.728)	86849	46.5992	46.6	
34 Tetrahydrofuran	42	2.980	2.980	(0.733)	34151	46.2703	46.3	
35 Chloroform	83	3.069	3.069	(0.754)	179979	47.5162	47.5	
$ 36 Dibromofluoromethane (S)	113	3.236	3.239	(0.795)	86811	50.6888	50.7	
37 1,1,1-Trichloroethane	97	3.236	3.236	(0.795)	166679	44.3628	44.4	
38 cyclohexane	56	3.311	3.311	(0.814)	172575	44.3872	44.4	
150 n-butyl chloride	56	3.378	3.375	(0.830)	224053	46.3741	46.4	
39 Carbon Tetrachloride	117	3.414	3.414	(0.839)	152477	46.4994	46.5	
40 1,1-Dichloropropene	75	3.422	3.422	(0.841)	156202	48.6758	48.7	
41 Benzene	78	3.656	3.656	(0.899)	417181	45.8952	45.9	
42 1,2-Dichloroethane	62	3.748	3.748	(0.921)	148921	47.7457	47.7	
43 2,2,4-Trimethylpentane	57	3.825	3.823	(0.940)	284975	48.7441	48.7	
44 Isobutyl alcohol	43	3.595	3.592	(0.884)	21875	1.04245	1.04	
* 45 Fluorobenzene	96	4.068	4.068	(1.000)	339558	50.0000		
47 Trichloroethene	95	4.529	4.527	(1.114)	103248	46.0348	46.0	
48 Methylcyclohexane	55	4.794	4.797	(1.179)	126795	48.1207	48.1	
49 1,2-Dichloropropane	63	4.841	4.838	(1.190)	104322	45.6945	45.7	
50 1,4-Dioxane	88	4.950	4.947	(1.217)	24959	925.819	926	
51 Dibromomethane	93	4.944	4.939	(1.215)	67090	47.1496	47.1	
52 Methyl methacrylate	69	4.963	4.958	(1.220)	89770	46.6497	46.6	
53 Bromodichloromethane	83	5.175	5.172	(1.272)	132603	45.7153	45.7	
54 2-Chloroethyl vinyl ether	63	5.528	5.531	(0.750)	72547	42.1870	42.2	
55 cis-1,3-Dichloropropene	75	5.673	5.673	(0.770)	170147	45.9339	45.9	
56 4-Methyl-2-Pentanone	43	5.854	5.851	(0.795)	558208	221.071	221	
$ 57 Toluene-d8	98	5.946	5.949	(0.807)	336690	50.5162	50.5	
58 Toluene	91	6.021	6.021	(0.817)	448549	47.7729	47.8	
59 trans-1,3-Dichloropropene	75	6.318	6.319	(0.858)	153103	45.6232	45.6	
60 Ethyl Methacrylate	69	6.405	6.405	(0.869)	646099	190.975	191(M)	NI
61 1,1,2-Trichloroethane	83	6.513	6.516	(0.884)	81887	47.5129	47.5	
62 Tetrachloroethene	166	6.560	6.561	(0.890)	120222	41.2053	41.2	
63 1,3-Dichloropropane	76	6.661	6.661	(0.904)	176178	49.3693	49.4	
64 2-Hexanone	43	6.741	6.739	(0.915)	395295	240.228	240	
65 Dibromochloromethane	129	6.864	6.864	(0.932)	106746	44.3065	44.3	
66 1,2-Dibromoethane	107	6.956	6.956	(0.944)	104226	48.2840	48.3	
* 67 Chlorobenzene-d5	117	7.367	7.367	(1.000)	256726	50.0000		
68 Chlorobenzene	112	7.392	7.390	(1.003)	279369	46.8520	46.8	
69 1,1,1,2-Tetrachloroethane	131	7.481	7.479	(1.015)	106773	47.0425	47.0	
70 Ethylbenzene	106	7.487	7.484	(1.016)	157183	48.4385	48.4	
71 m&p-Xylene	106	7.598	7.596	(1.031)	380894	97.1623	97.2	
72 o-Xylene	106	7.896	7.896	(1.072)	178081	49.3415	49.3	
73 Styrene	104	7.918	7.918	(1.075)	309296	49.6927	49.7	
74 Bromoform	173	8.054	8.052	(0.883)	73671	39.7019	39.7	
75 Isopropylbenzene	105	8.182	8.183	(1.111)	458837	50.1706	50.2	
$ 76 4-Bromofluorobenzene	95	8.313	8.313	(1.128)	120341	52.7159	52.7	
77 n-amyl acetate	70	8.071	8.071	(1.096)	417319	240.295	240	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.402	8.402	(1.140)	168547	47.0850	47.1	
79 1,1,2,2-Tetrachloroethane	83	8.425	8.425	(0.924)	132045	51.6555	51.6	
80 trans-1,4-Dichloro-2-butene	53	8.447	8.447	(1.147)	134814	171.215	171(Q)	
81 1,2,3-Trichloropropane	110	8.458	8.458	(0.927)	46471	51.6125	51.6(Q)	
82 n-Propylbenzene	91	8.489	8.486	(0.931)	505854	54.9806	55.0	
83 2-Chlorotoluene	91	8.544	8.544	(0.937)	289804	50.2504	50.2	
84 1,3,5-Trimethylbenzene	105	8.619	8.619	(0.945)	344207	50.5683	50.6	
85 4-Chlorotoluene	126	8.633	8.633	(0.947)	106531	49.4625	49.5	
86 tert-Butylbenzene	119	8.834	8.834	(0.969)	305770	42.4382	42.4	
87 1,2,4-Trimethylbenzene	105	8.875	8.875	(0.973)	353306	50.1713	50.2	
88 sec-Butylbenzene	105	8.984	8.984	(0.985)	426182	51.3255	51.3	
89 1,3-Dichlorobenzene	146	9.064	9.065	(0.994)	208600	48.0587	48.0	
90 p-Isopropyltoluene	119	9.092	9.092	(0.997)	349537	50.7500	50.7	
* 91 1,4-Dichlorobenzene-d4	152	9.120	9.117	(1.000)	127142	50.0000		
92 1,4-Dichlorobenzene	146	9.137	9.134	(1.002)	212428	45.1607	45.2	
93 n-Butylbenzene	91	9.357	9.357	(1.026)	286347	49.8915	49.9	
94 1,2-Dichlorobenzene	146	9.365	9.365	(1.027)	206296	48.9492	48.9	
95 1,2-Dibromo-3-chloropropane	155	9.871	9.874	(1.082)	23708	43.8805	43.9	
96 1,2,4-Trichlorobenzene	180	10.372	10.375	(1.137)	124928	47.1494	47.1	
97 Hexachlorobutadiene	225	10.453	10.453	(1.146)	53371	48.6289	48.6	
98 Naphthalene	128	10.533	10.534	(1.155)	354622	45.4329	45.4	
99 1,2,3-Trichlorobenzene	180	10.664	10.667	(1.169)	122455	48.3079	48.3	
100 2,methyl-naphthalene	142	11.226	11.226	(1.231)	176050	39.9669	40.0	
101 1-Methylnaphthalene	142	11.349	11.349	(1.244)	191841	49.1392	49.1	

QC Flag Legend

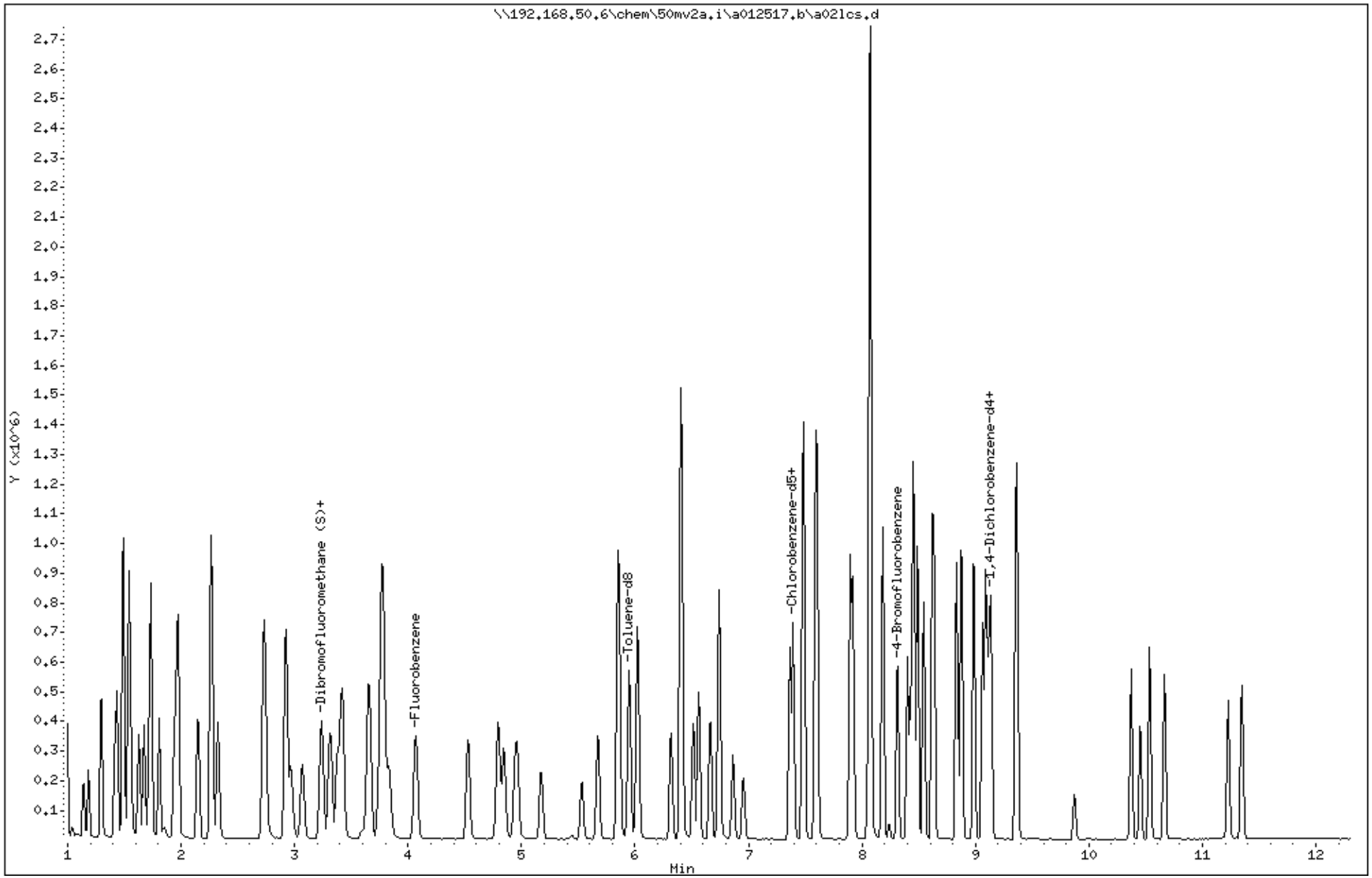
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d
Date : 26-JAN-2017 00:44
Client ID: 1714602,140393:5
Sample Info: 1714602,140393:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: dae
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

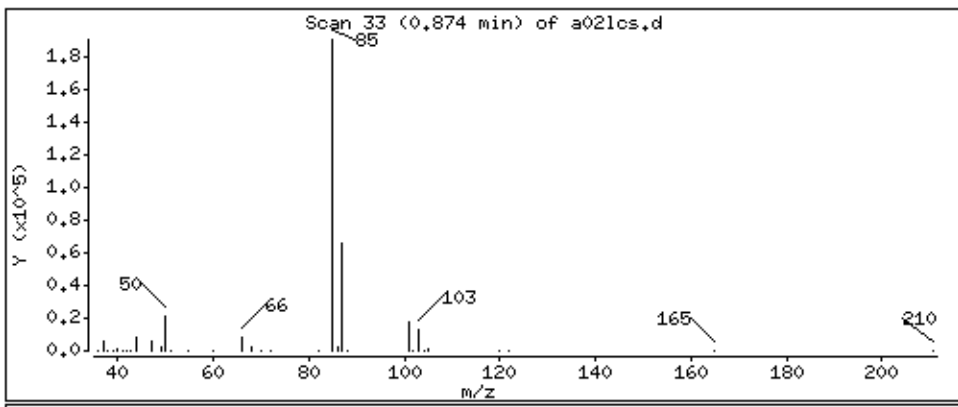
Operator: dae

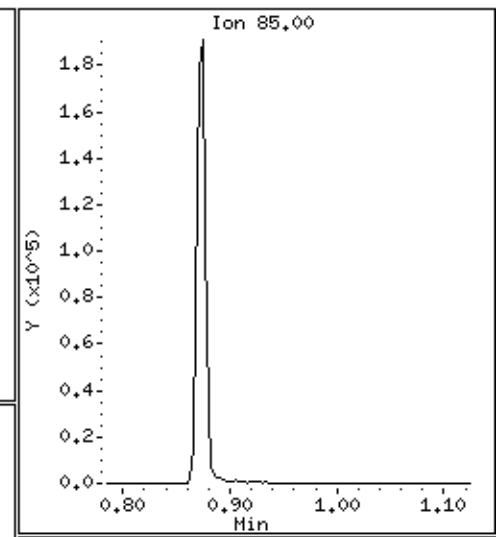
Column phase: DB-624

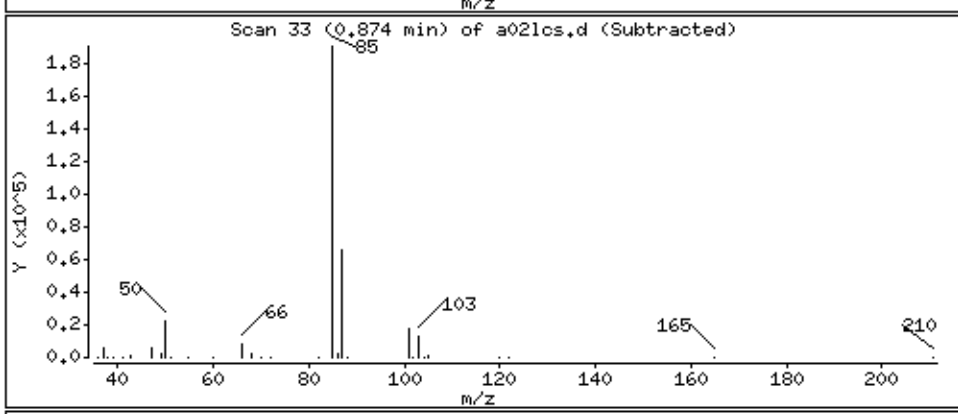
Column diameter: 0.18

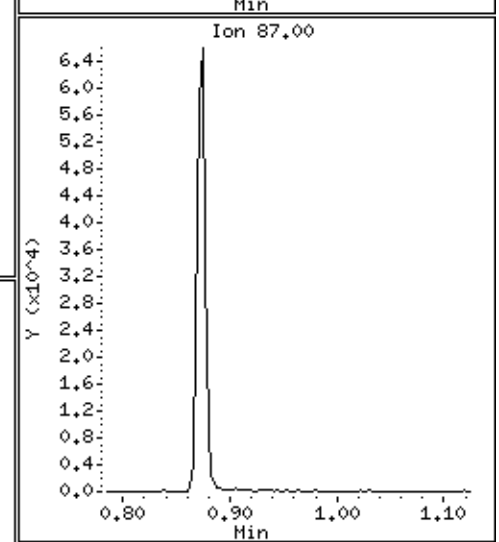
1 Dichlorodifluoromethane

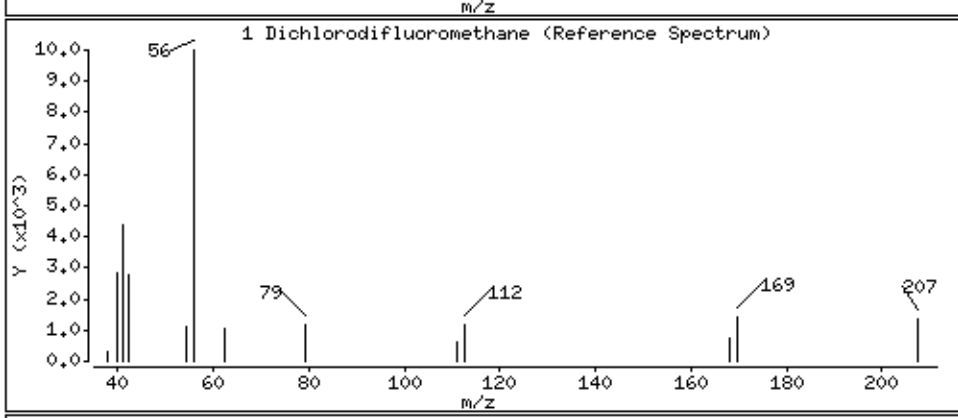
Concentration: 52.6 ppb

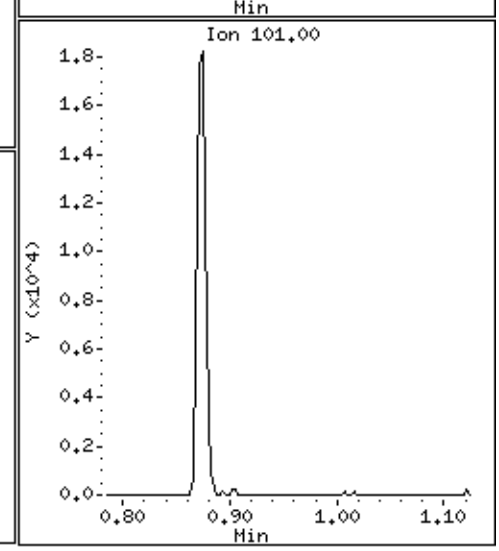


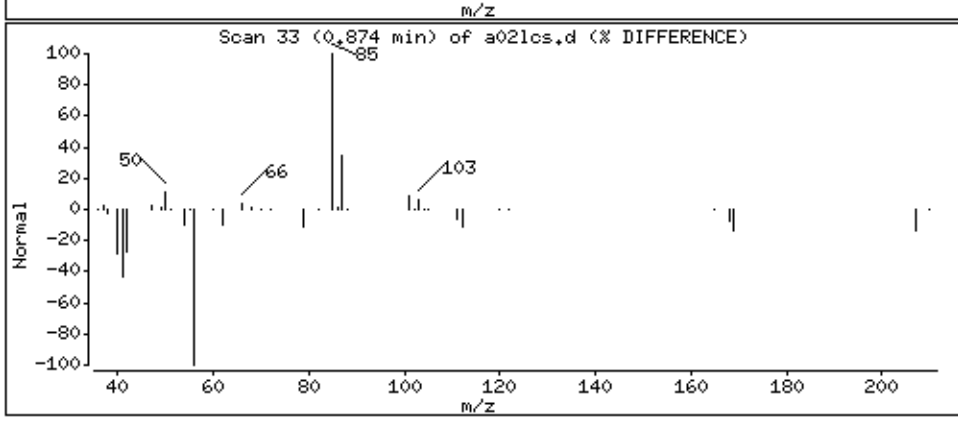












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

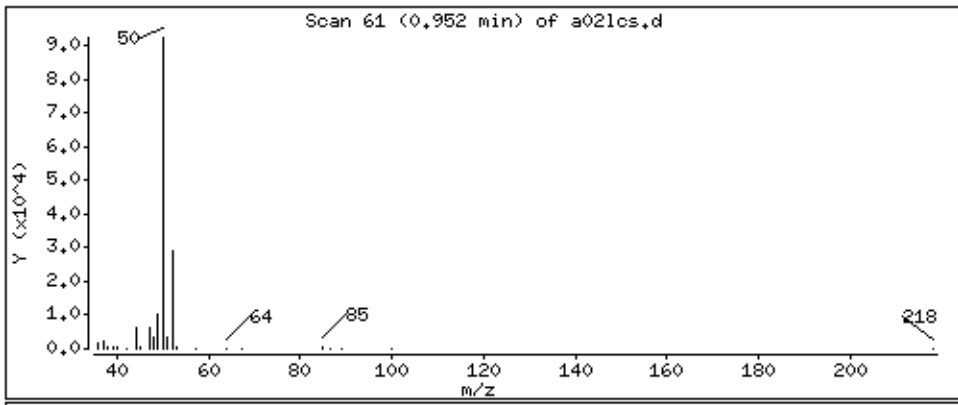
Operator: dae

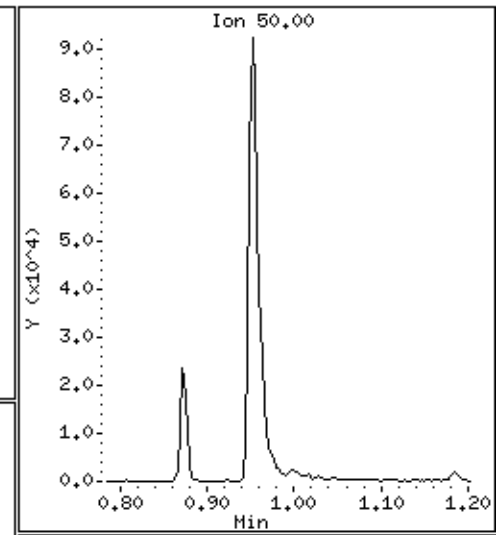
Column phase: DB-624

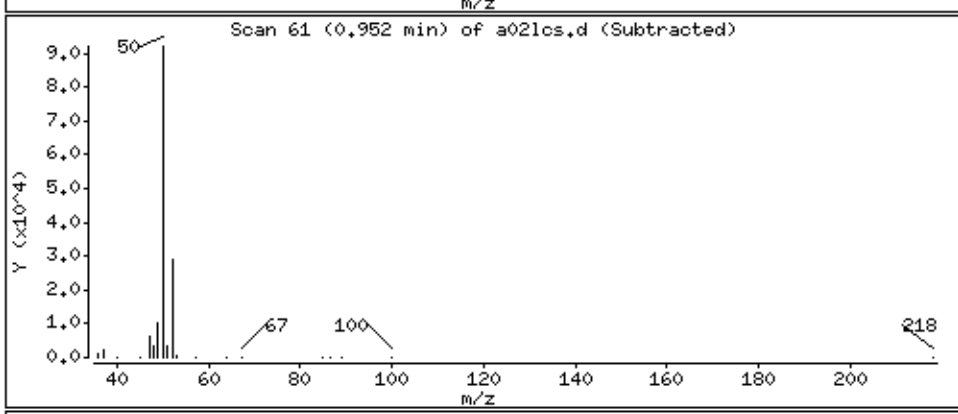
Column diameter: 0.18

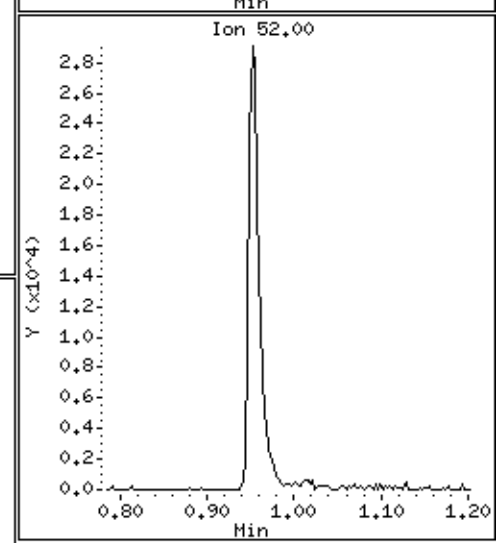
2 Chloromethane

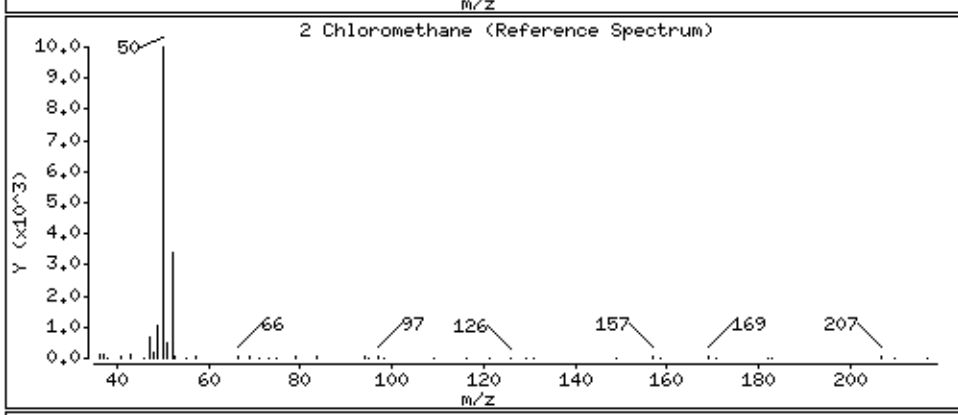
Concentration: 35.9 ppb

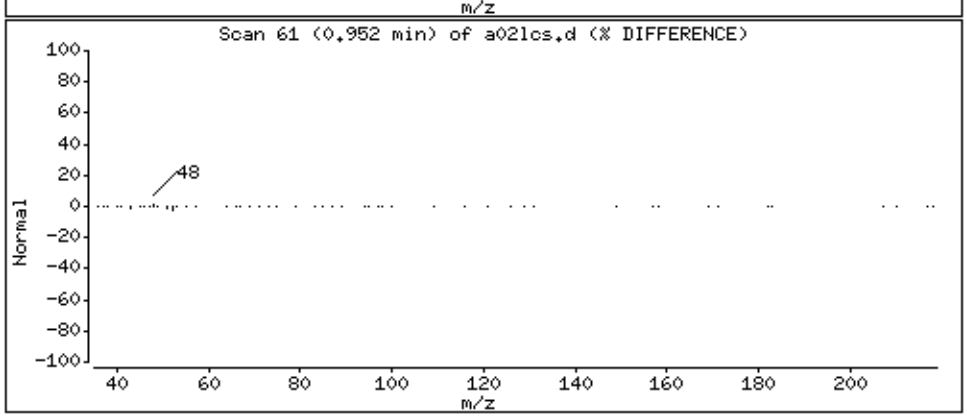












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

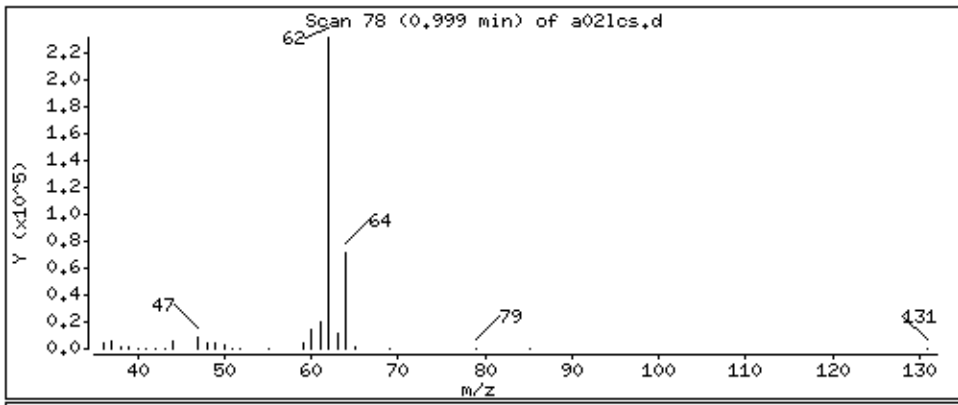
Operator: dae

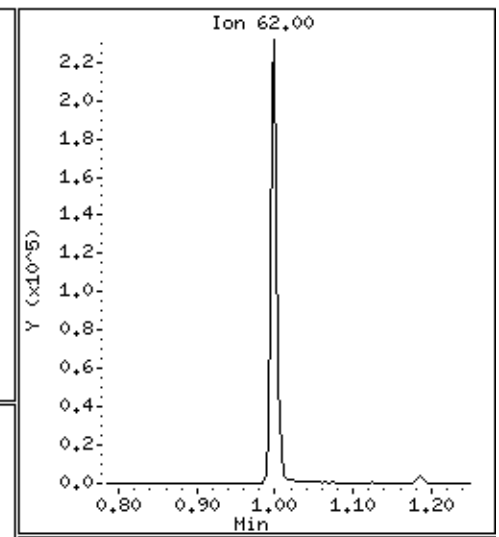
Column phase: DB-624

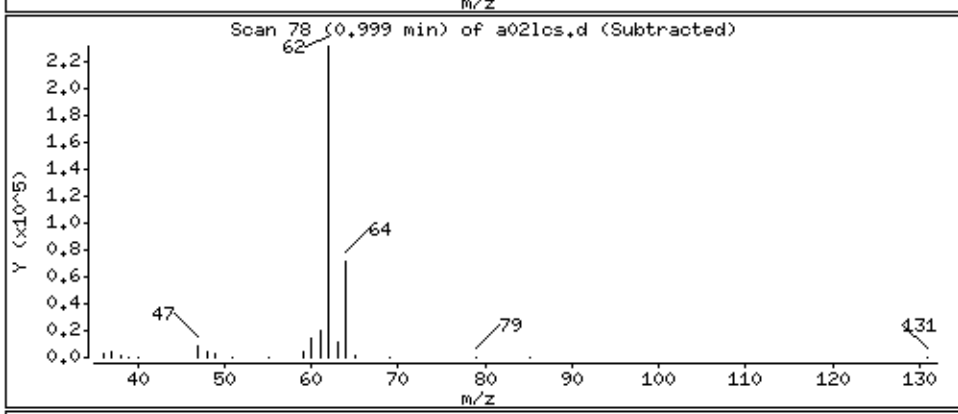
Column diameter: 0.18

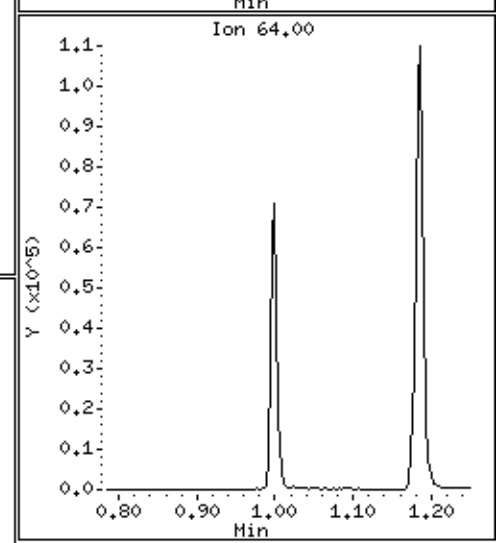
3 Vinyl Chloride

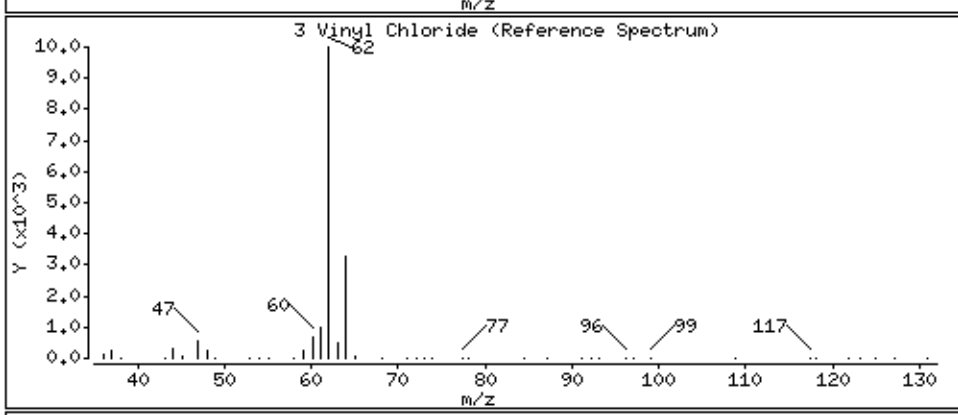
Concentration: 50.1 ppb

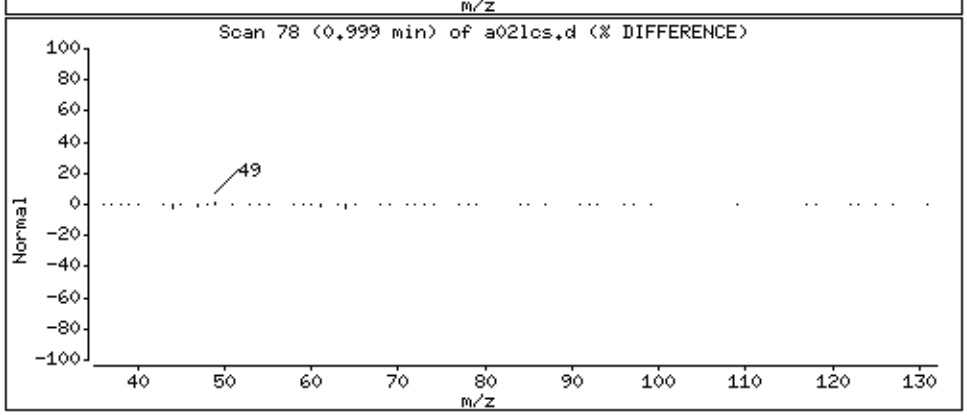












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

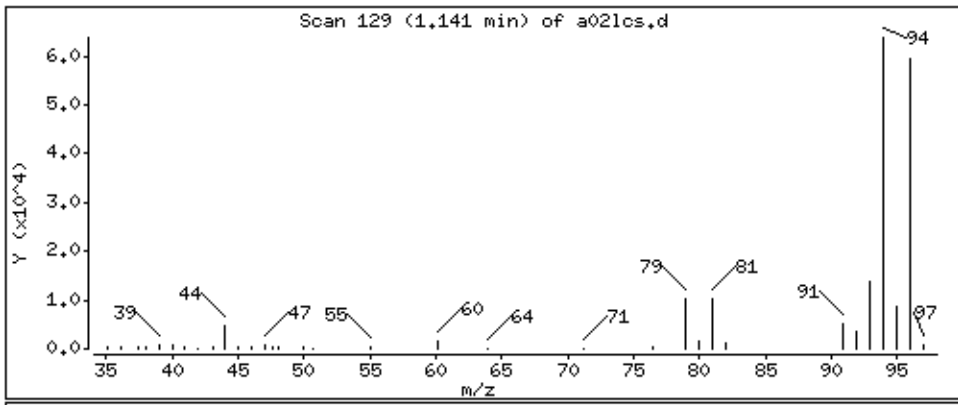
Operator: dae

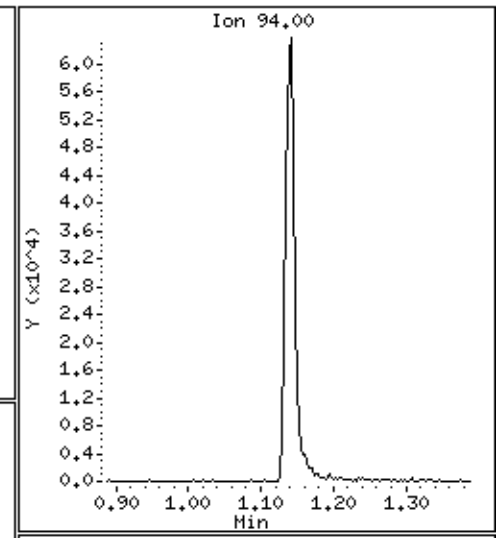
Column phase: DB-624

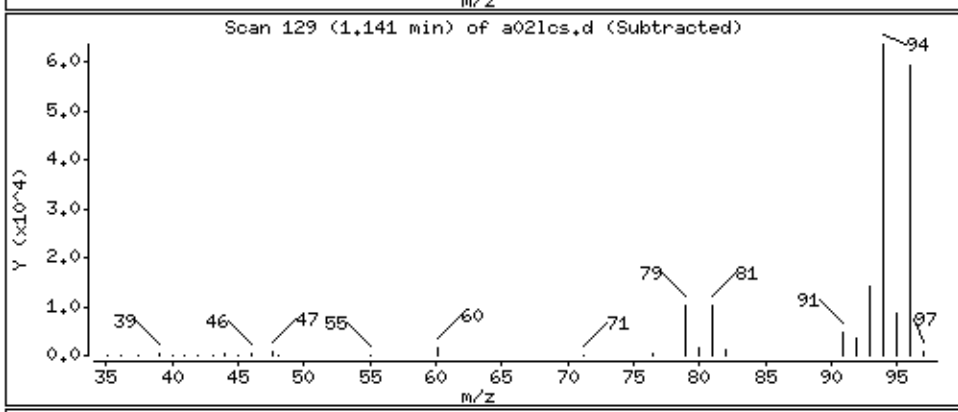
Column diameter: 0.18

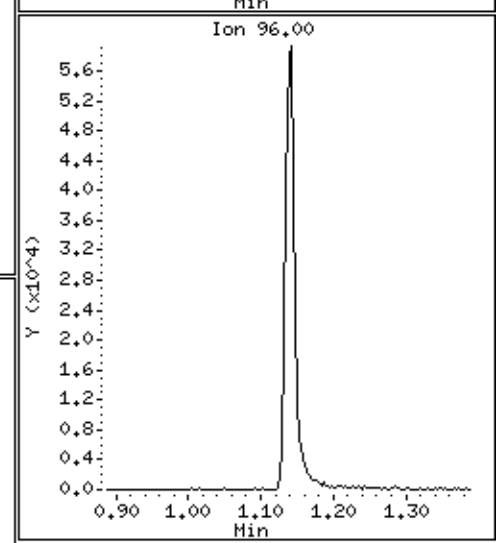
4 Bromomethane

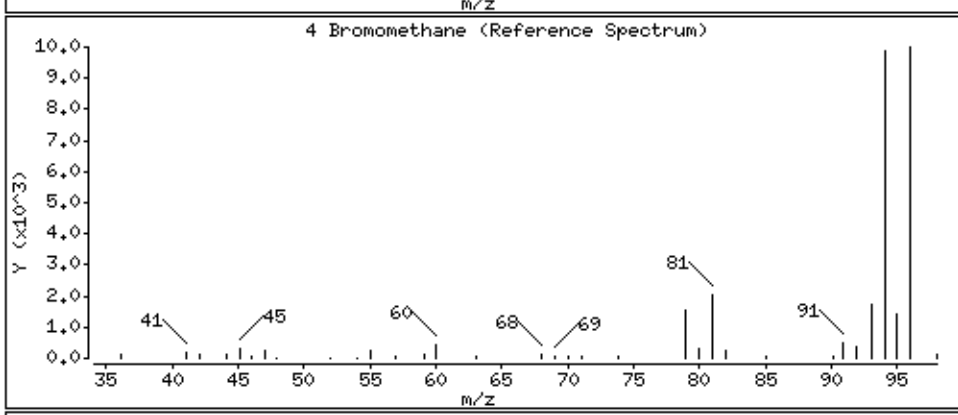
Concentration: 42.7 ppb

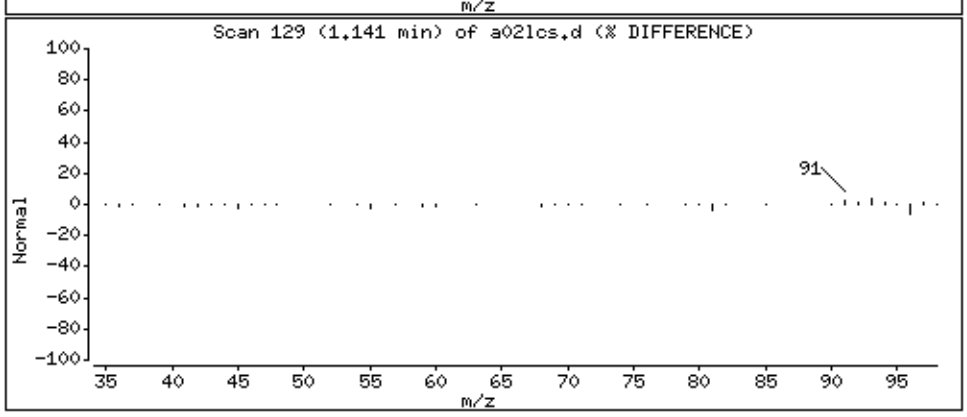












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

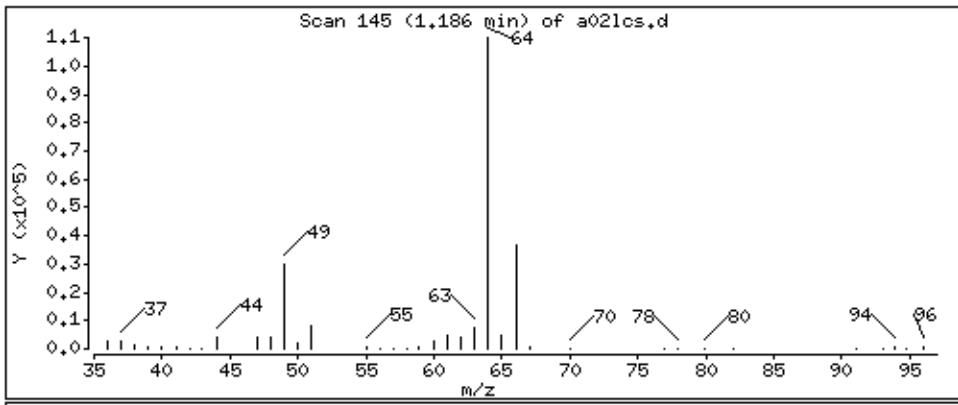
Operator: dae

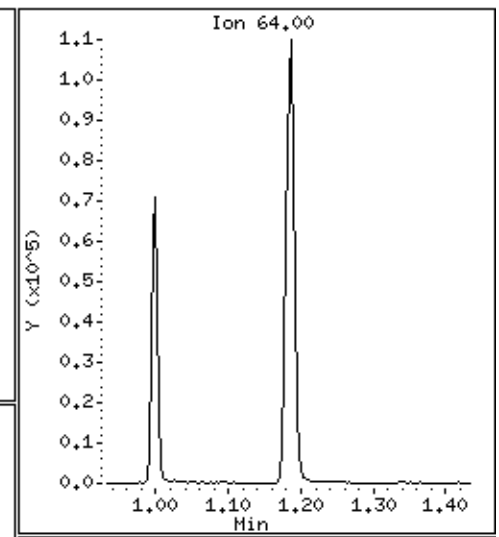
Column phase: DB-624

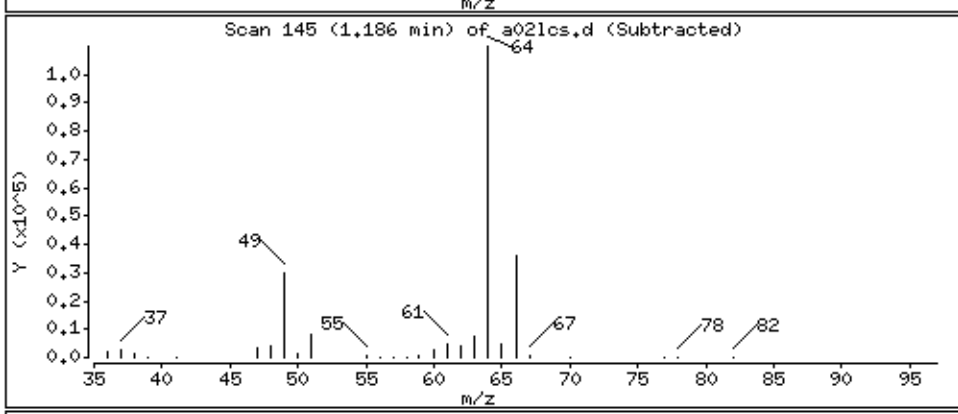
Column diameter: 0.18

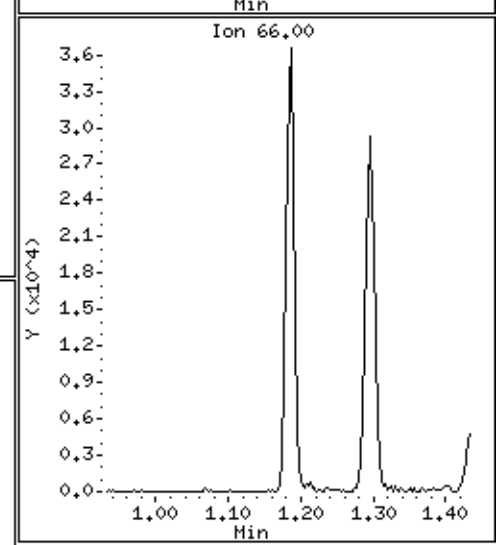
5 Chloroethane

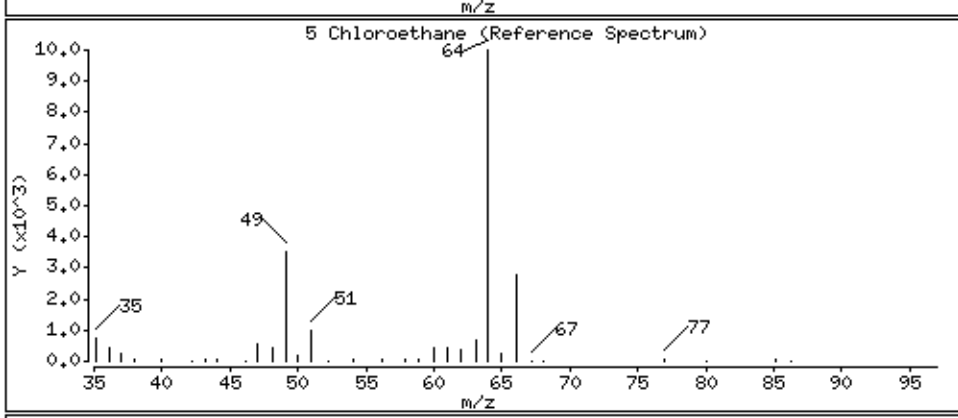
Concentration: 46.1 ppb

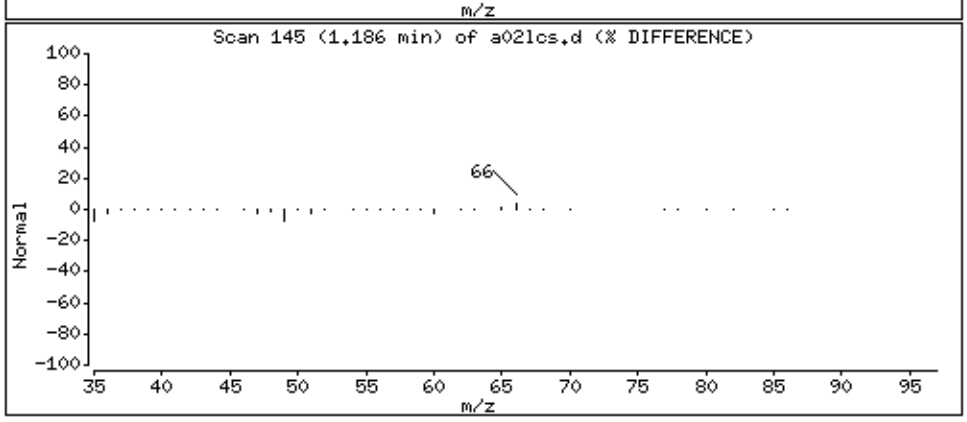












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

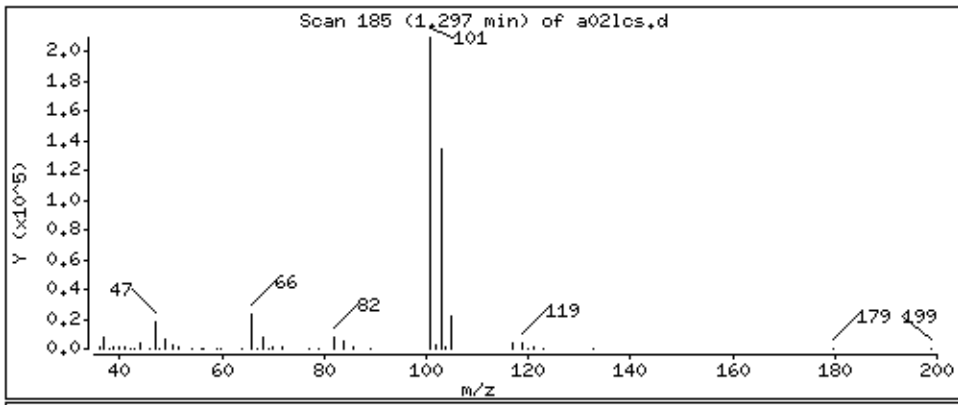
Operator: dae

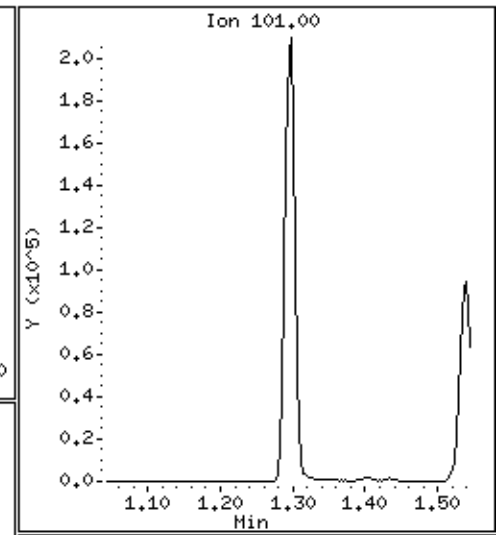
Column phase: DB-624

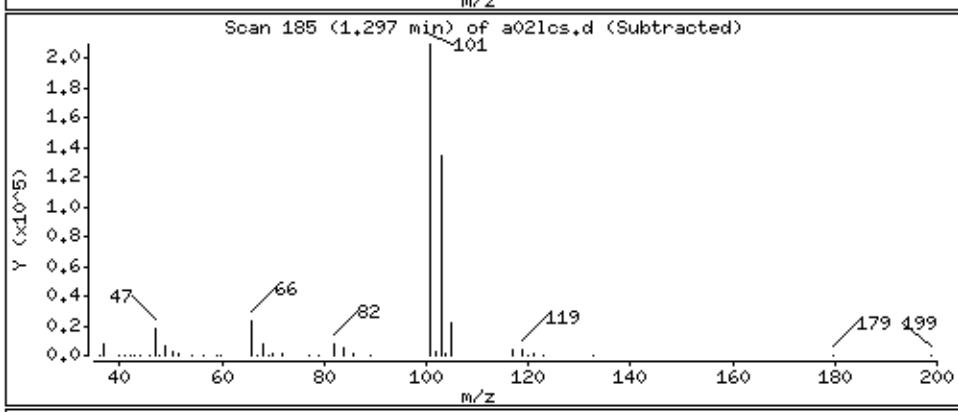
Column diameter: 0.18

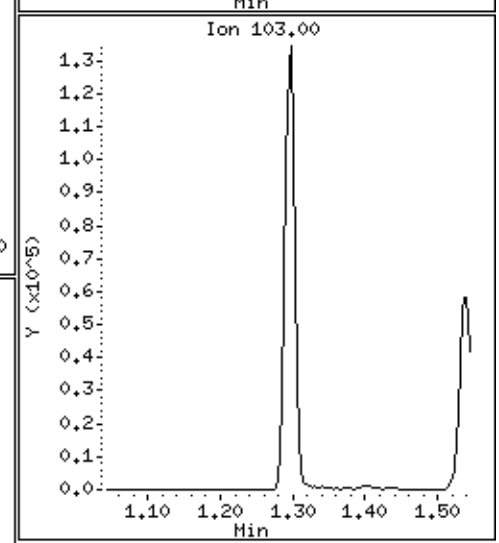
6 Trichlorofluoromethane

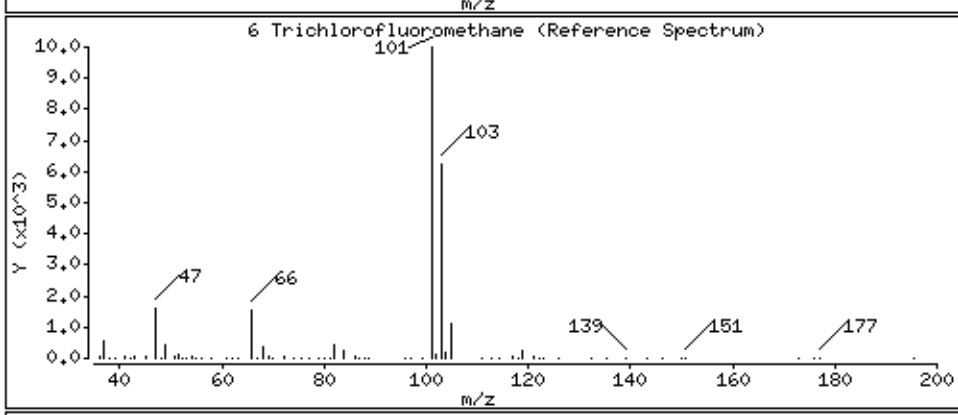
Concentration: 55.1 ppb

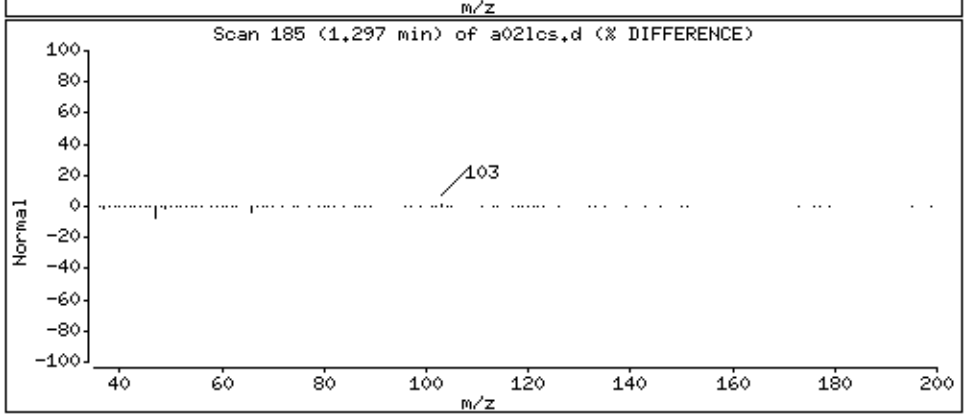












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

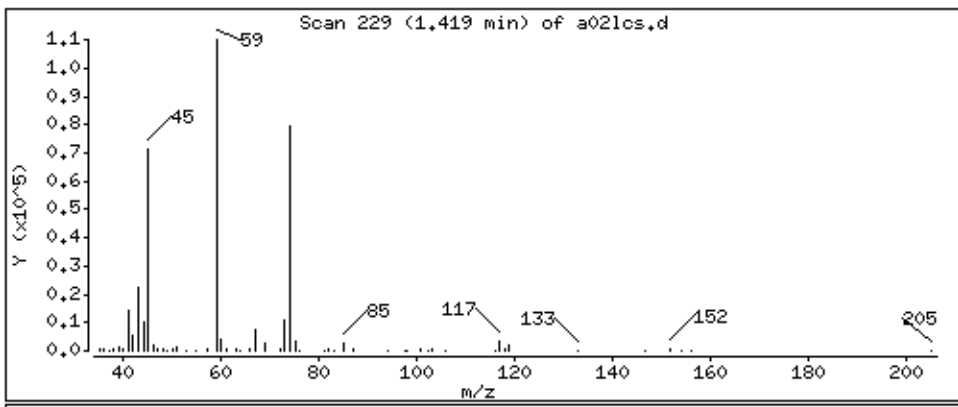
Operator: dae

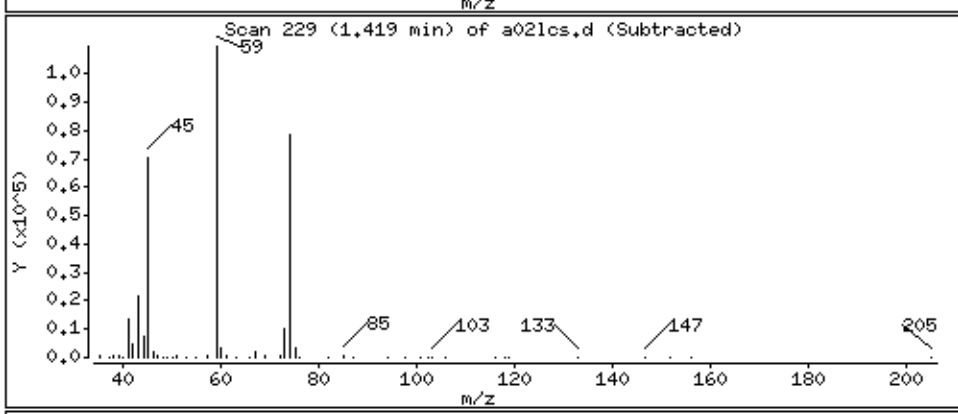
Column phase: DB-624

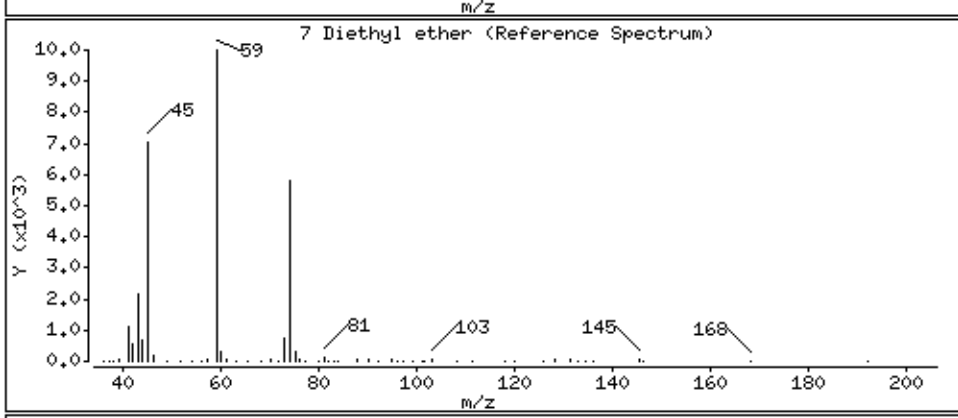
Column diameter: 0.18

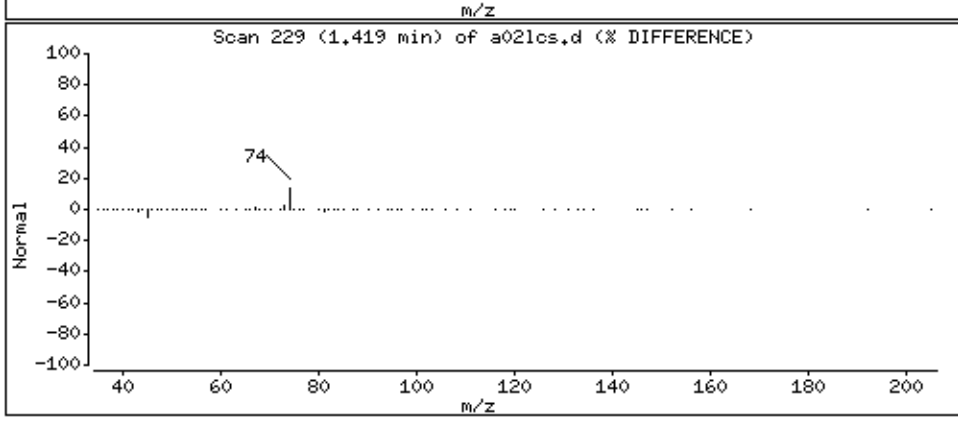
7 Diethyl ether

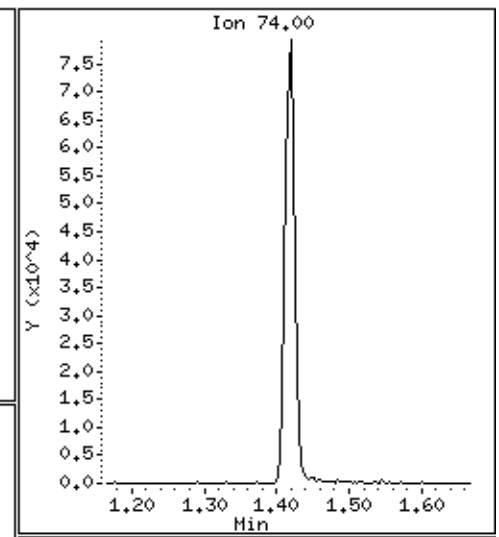
Concentration: 42.1 ppb

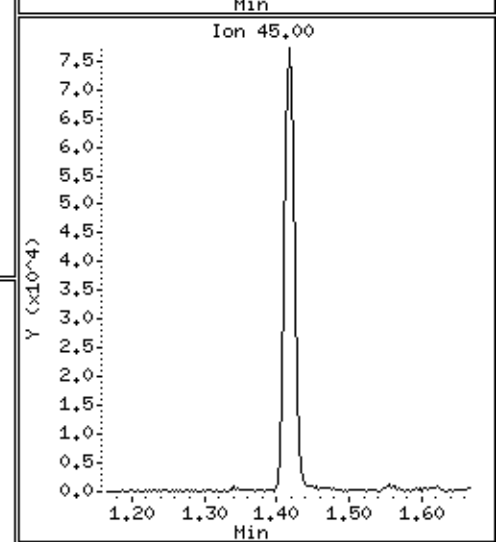


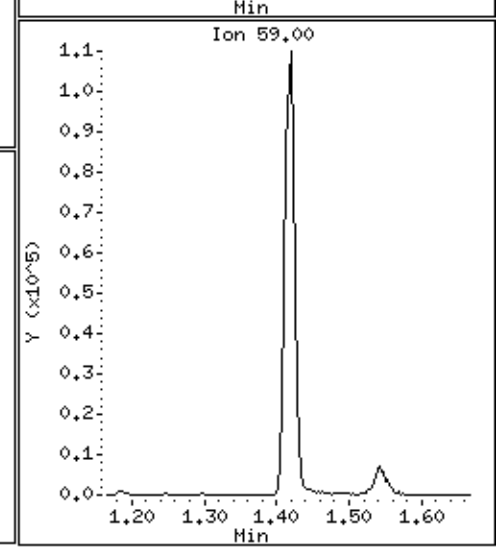












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

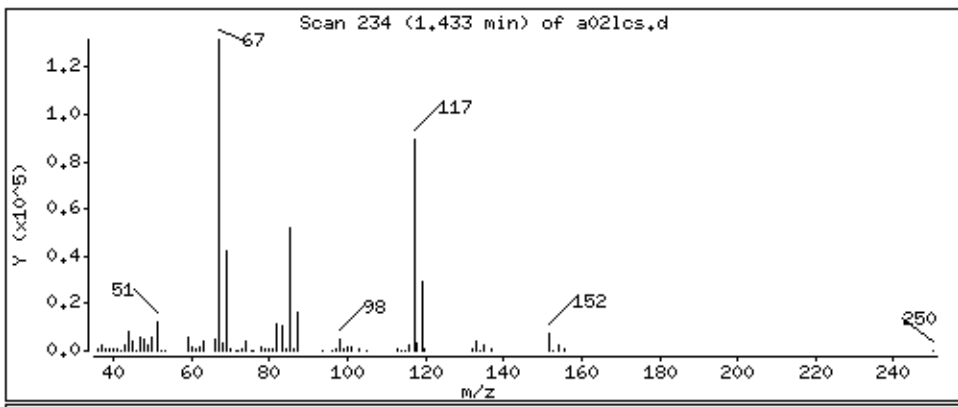
Operator: dae

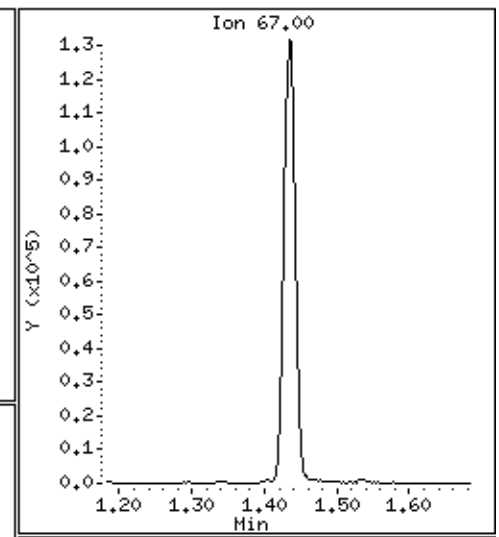
Column phase: DB-624

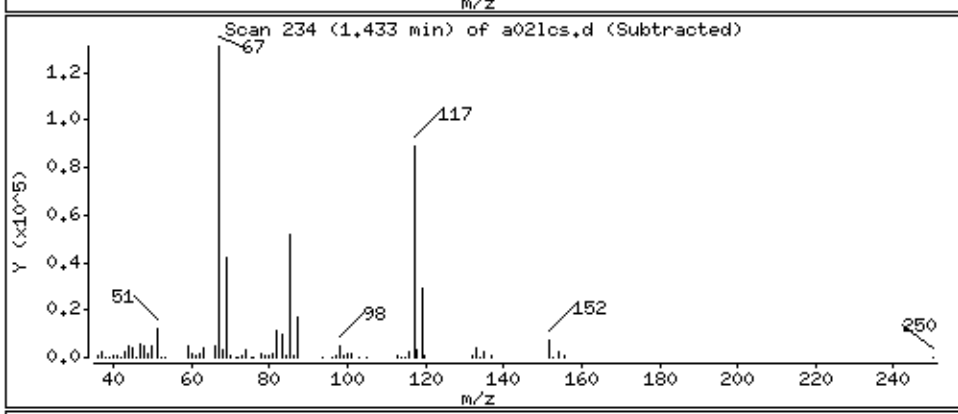
Column diameter: 0.18

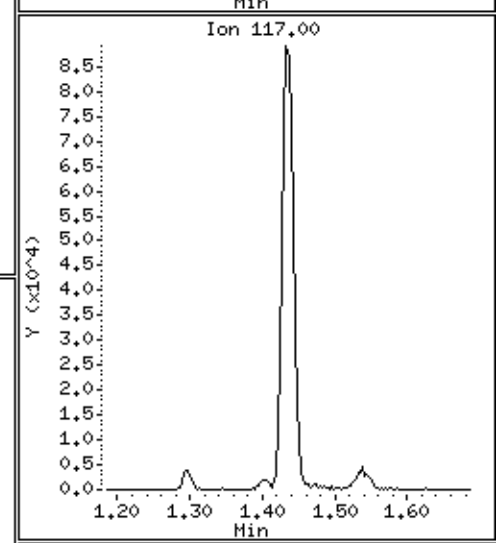
8 1,2-dichlorotrifluoroethane

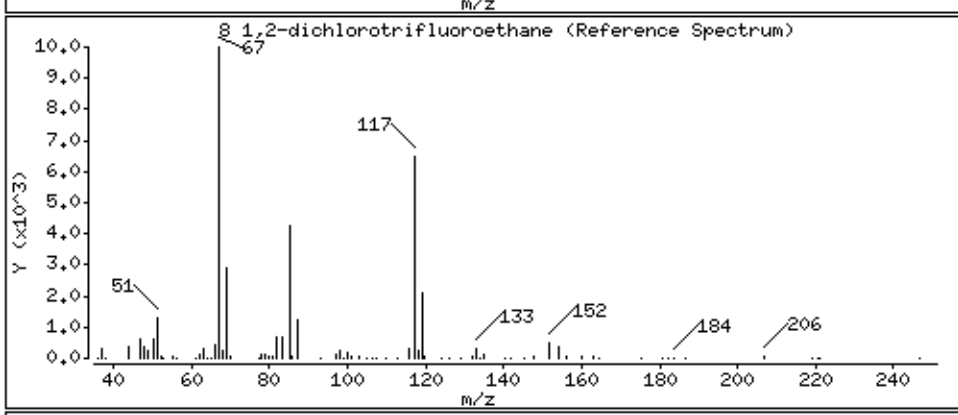
Concentration: 43.7 ppb

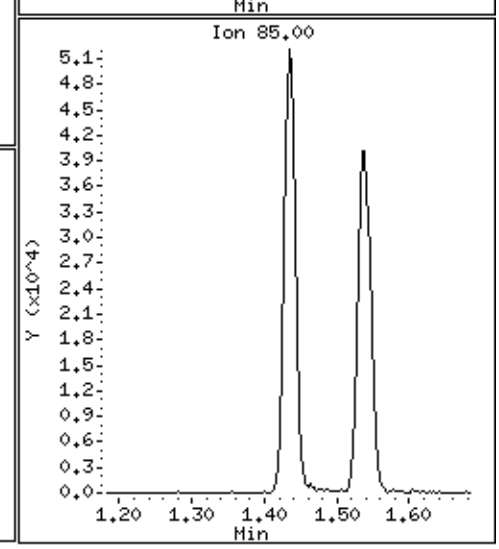


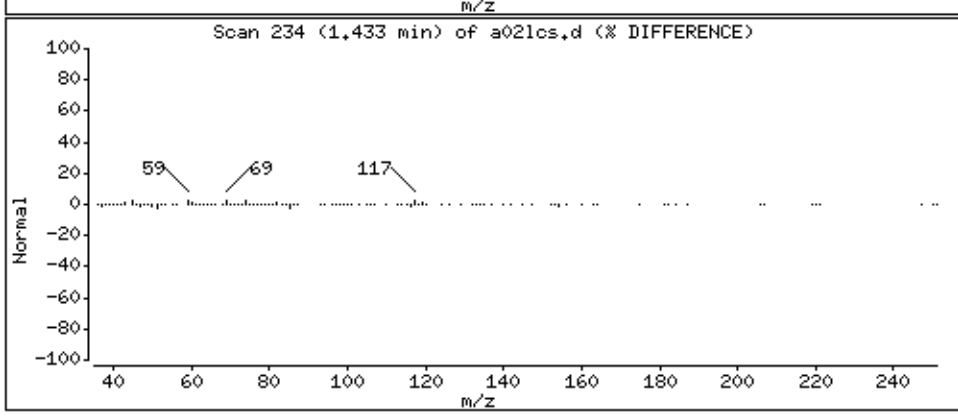












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

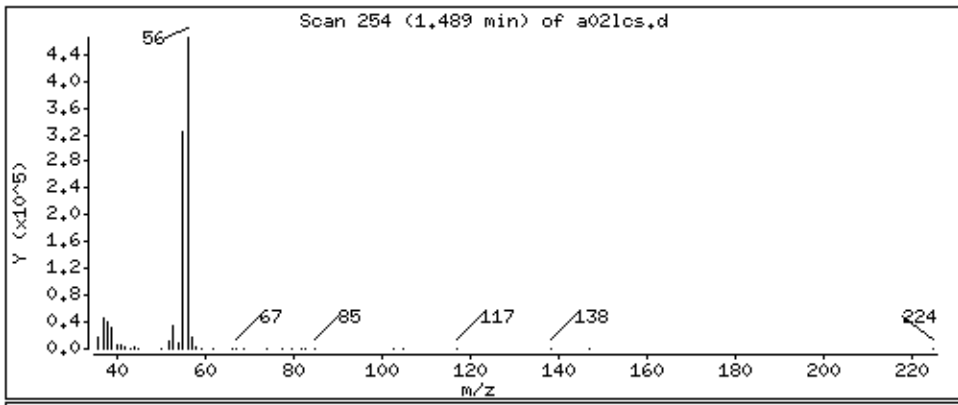
Operator: dae

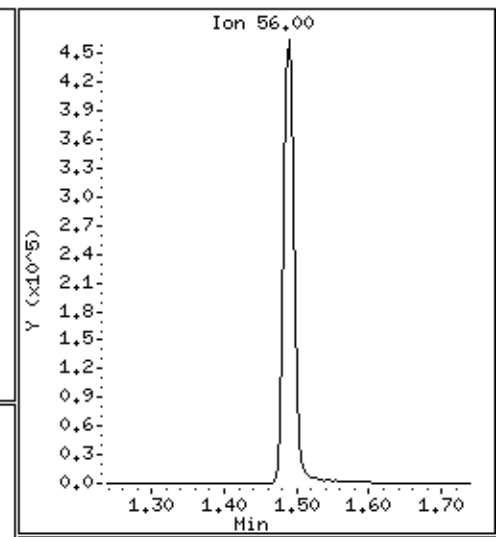
Column phase: DB-624

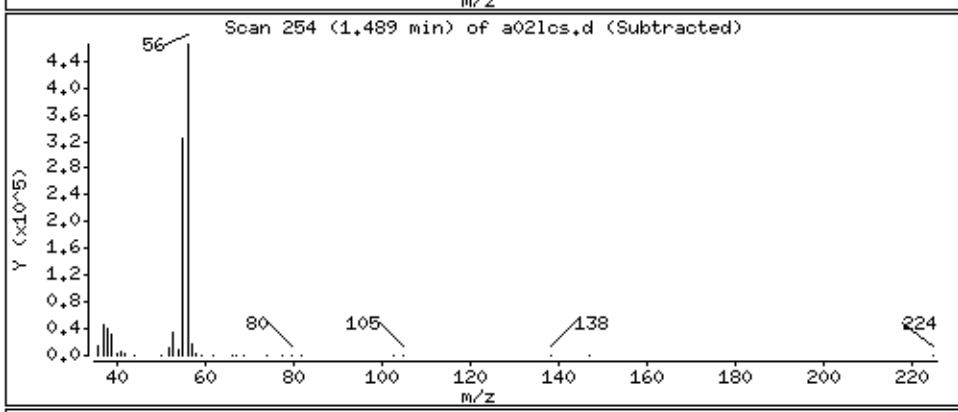
Column diameter: 0.18

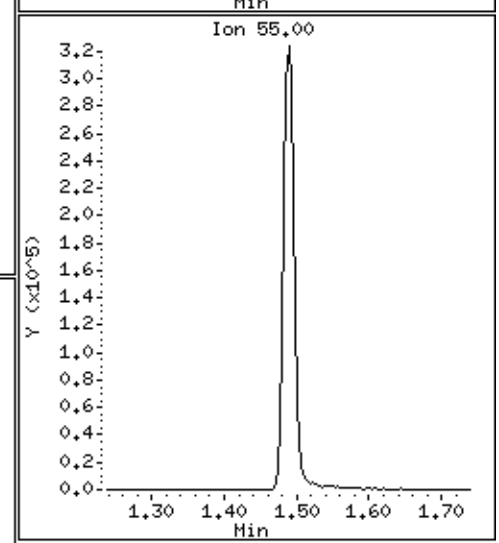
9 Acrolein

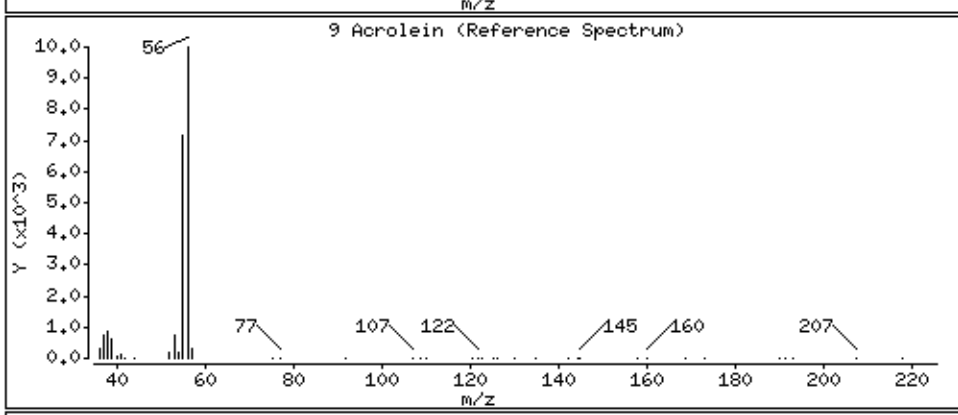
Concentration: 1240 ppb

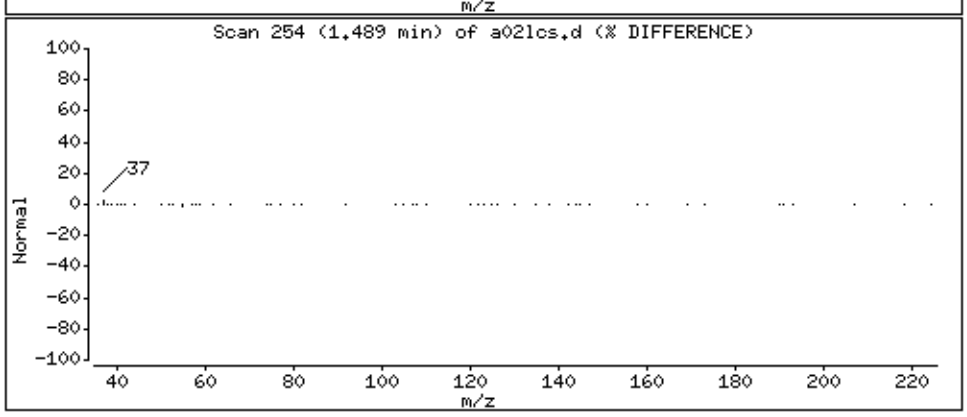












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

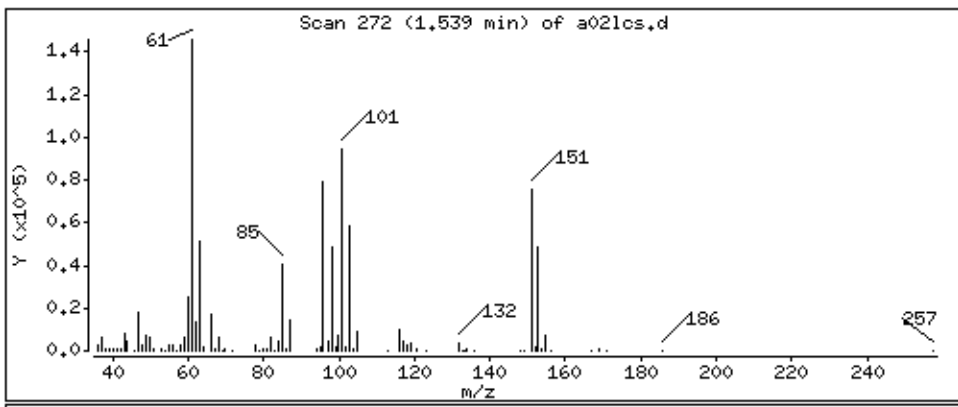
Operator: dae

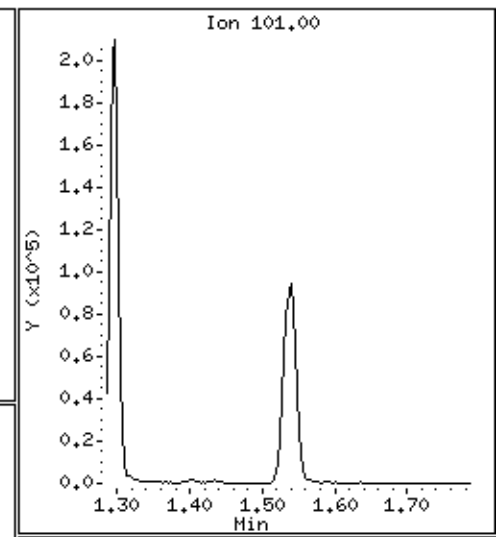
Column phase: DB-624

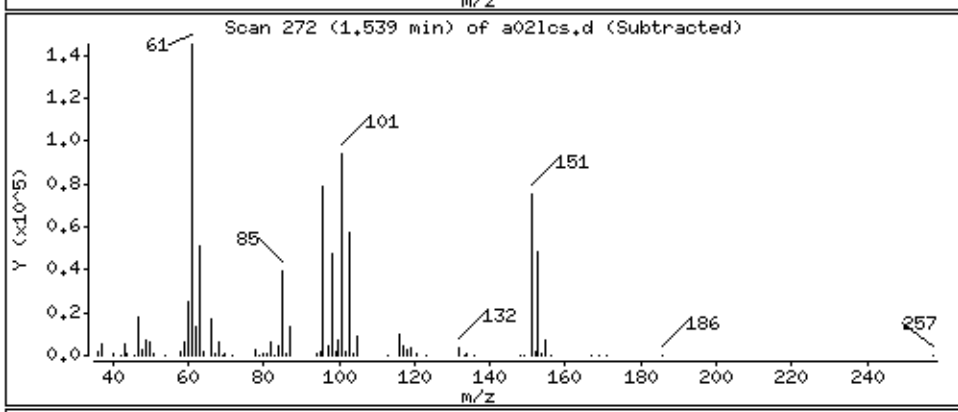
Column diameter: 0.18

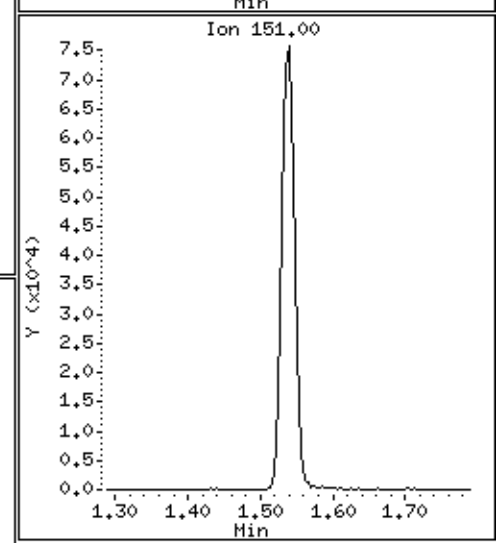
10 1,1,2trichlorotrifluoroethane

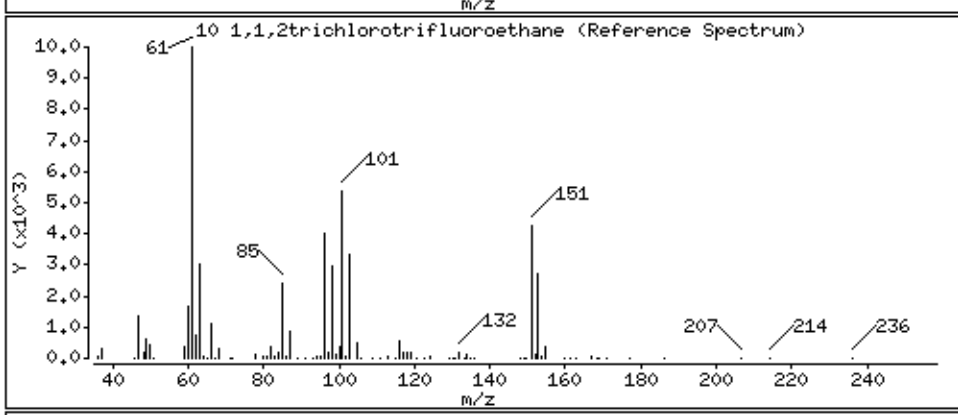
Concentration: 43.5 ppb

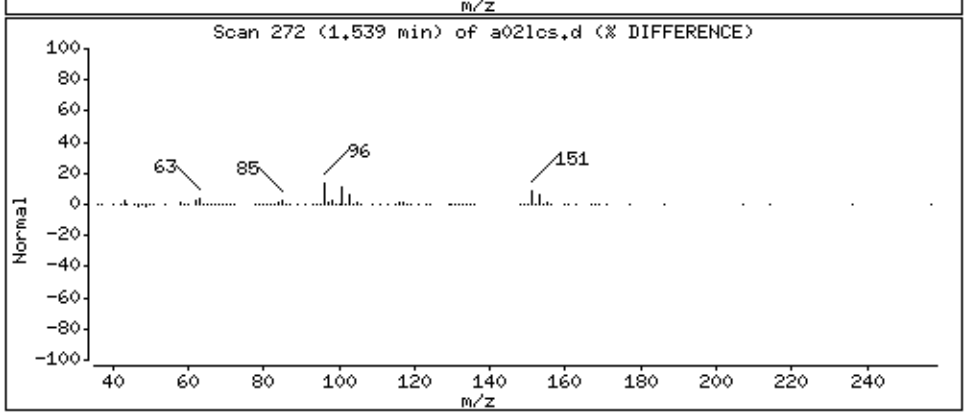












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

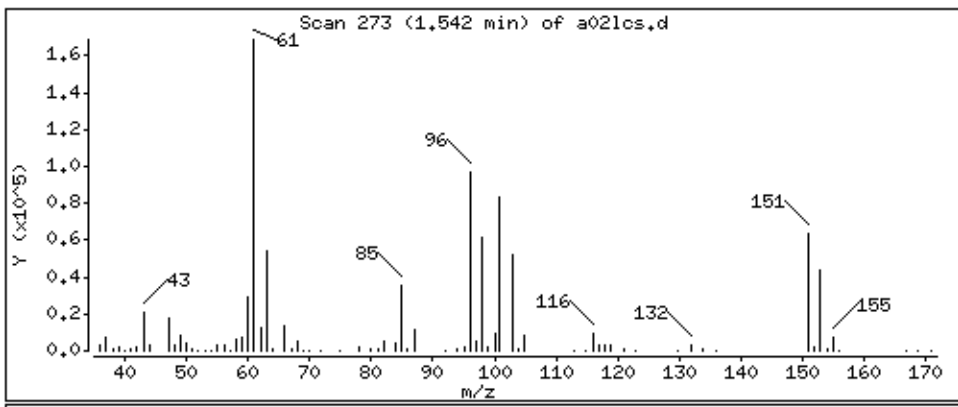
Operator: dae

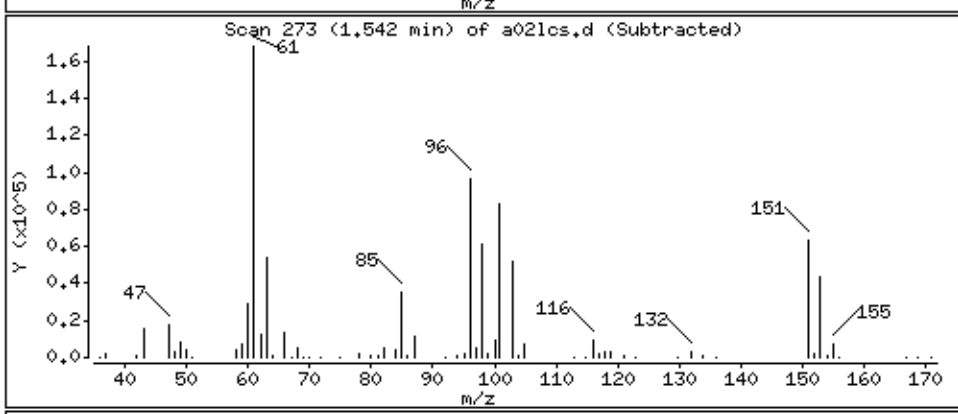
Column phase: DB-624

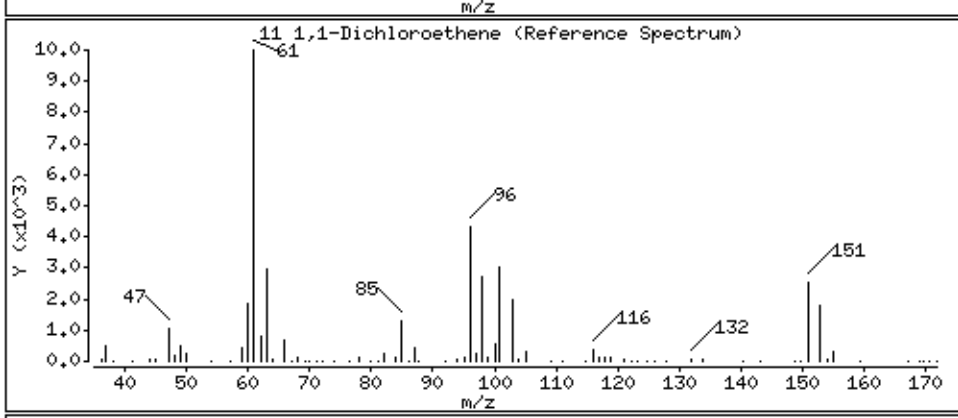
Column diameter: 0.18

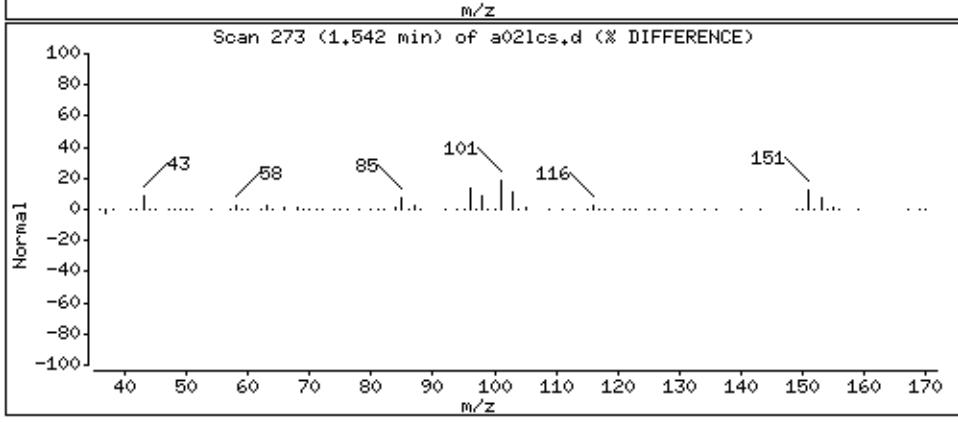
11 1,1-Dichloroethene

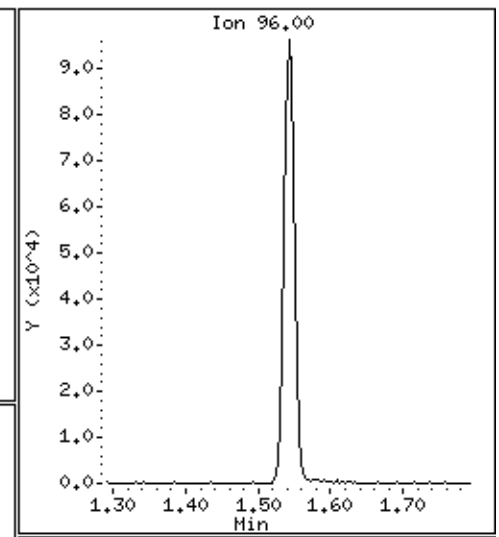
Concentration: 43.1 ppb

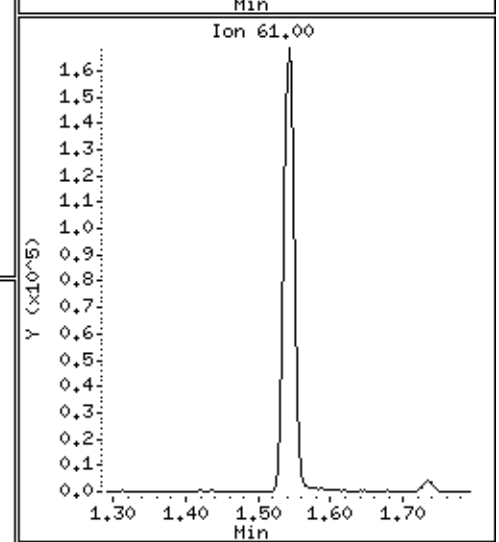


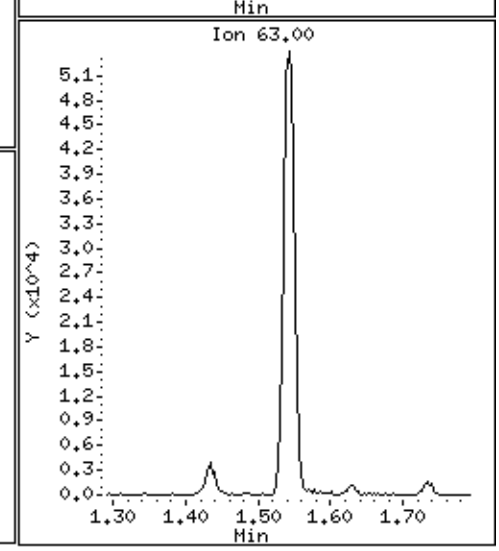












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

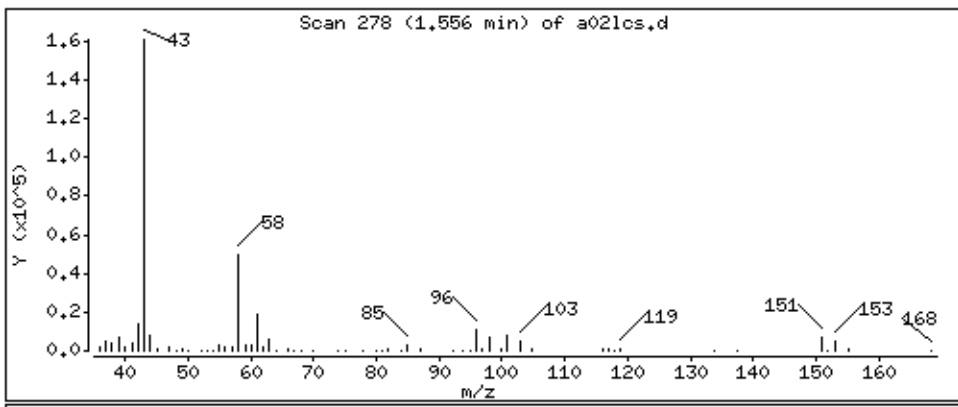
Operator: dae

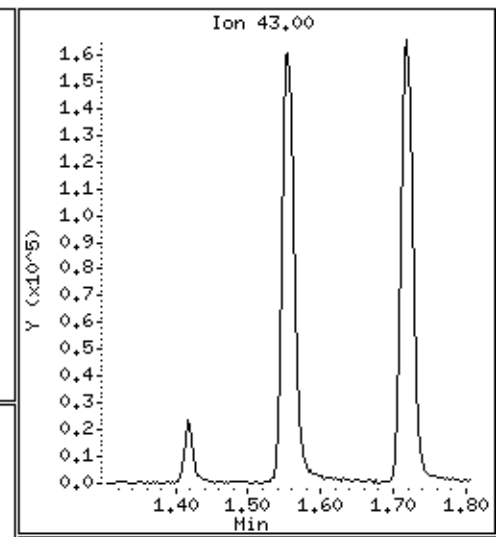
Column phase: DB-624

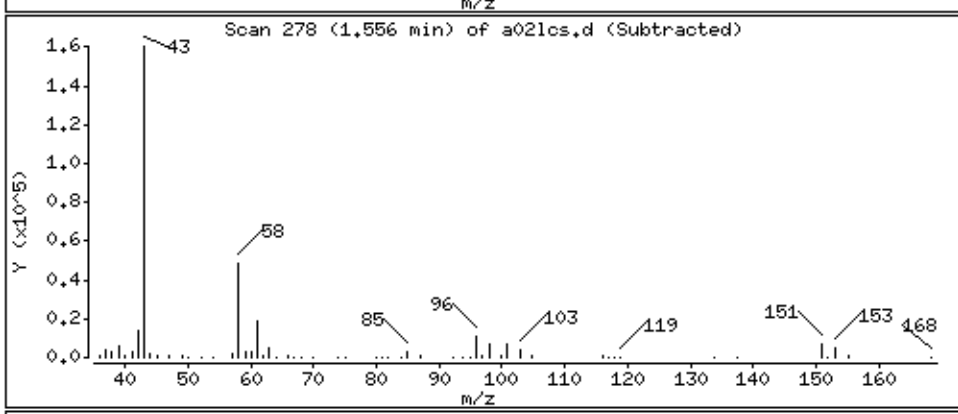
Column diameter: 0.18

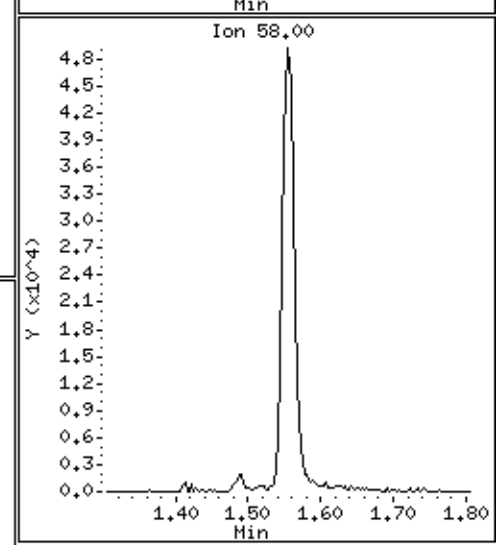
12 Acetone

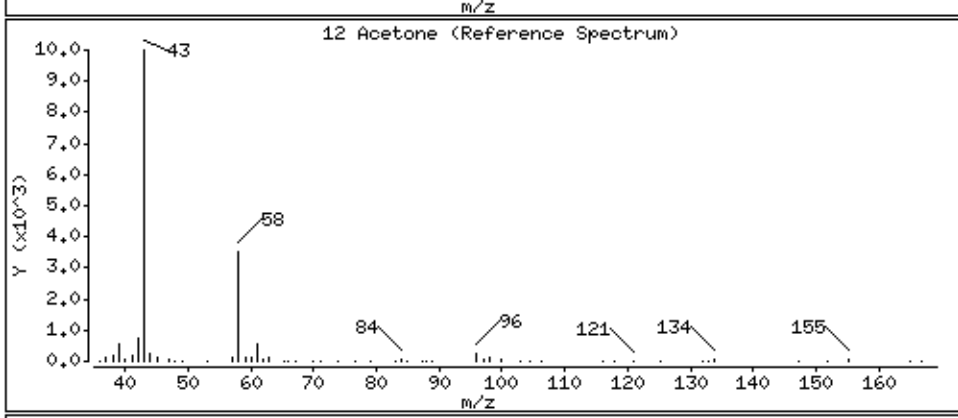
Concentration: 235 ppb

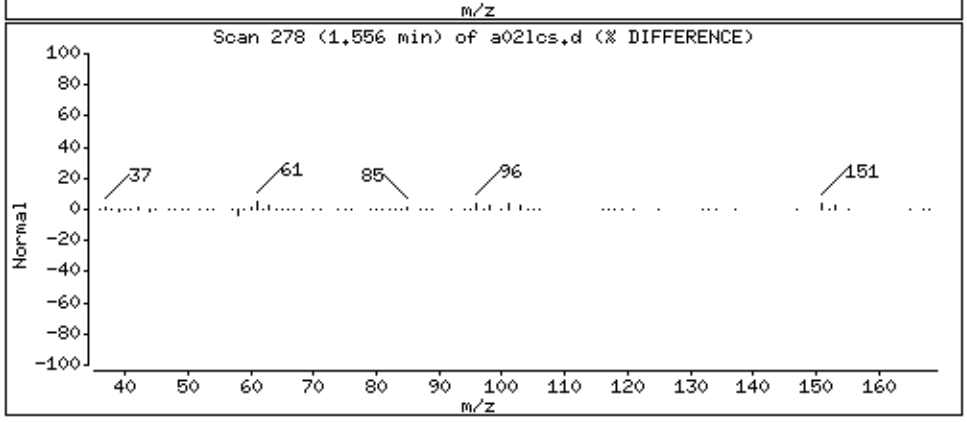












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

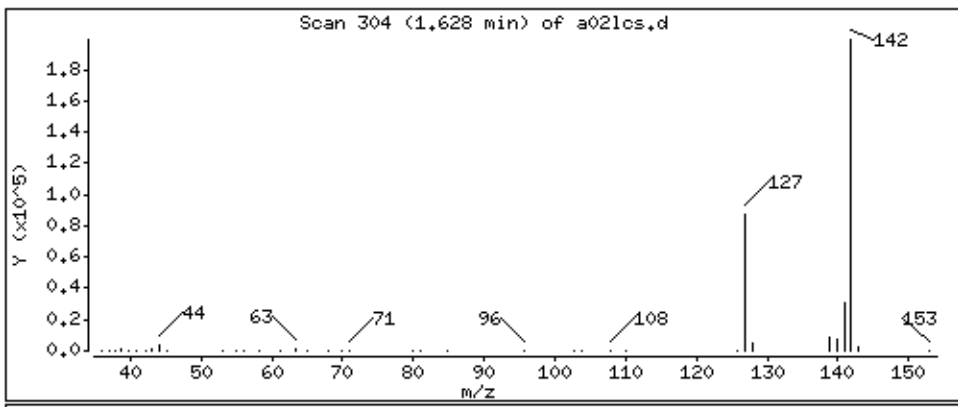
Operator: dae

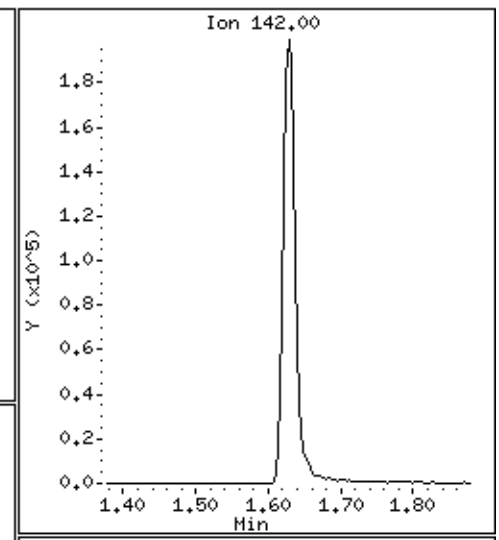
Column phase: DB-624

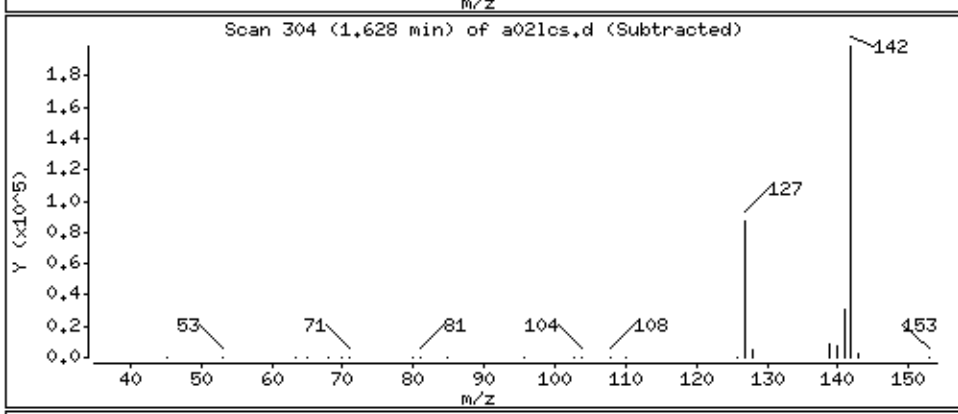
Column diameter: 0.18

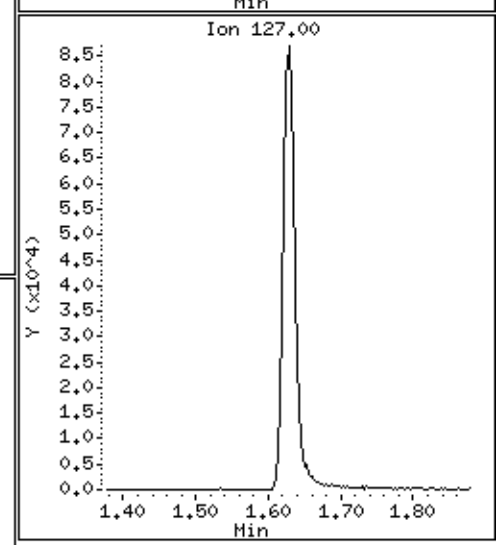
13 Iodomethane

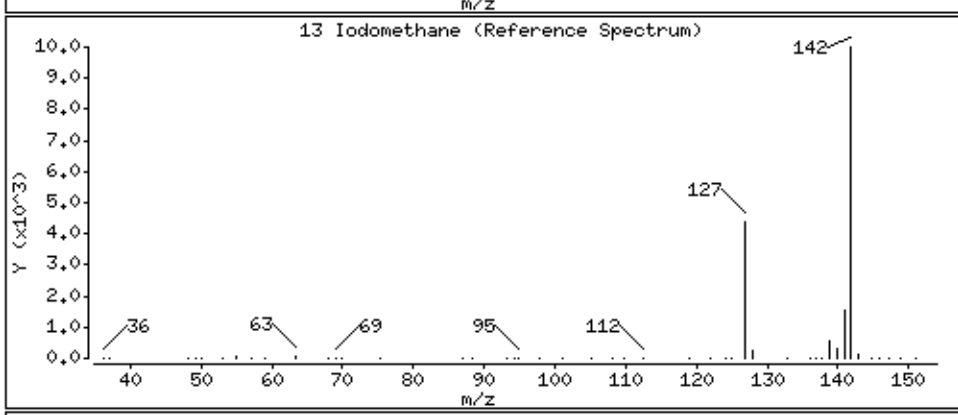
Concentration: 75.6 ppb

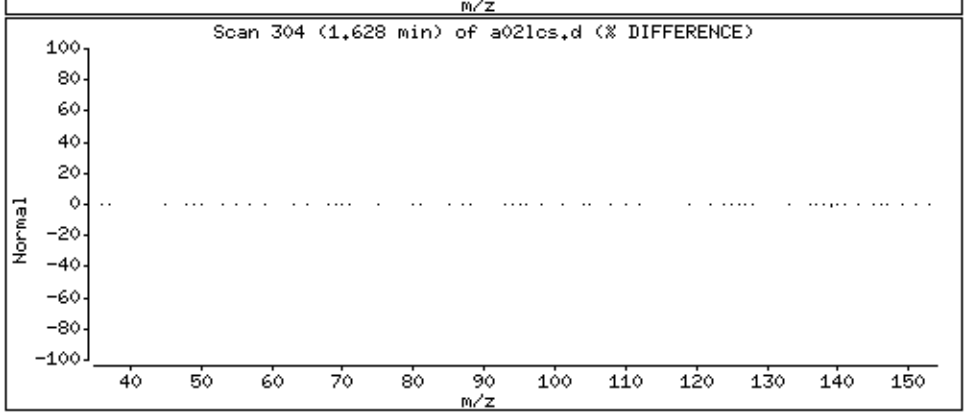












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

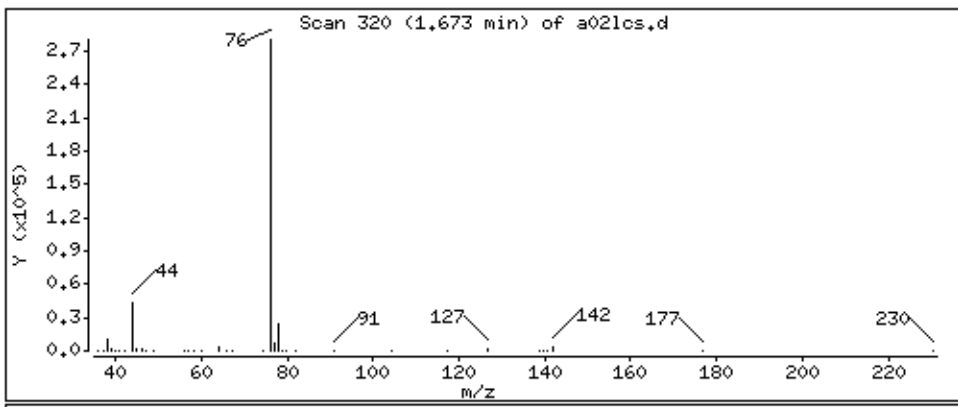
Operator: dae

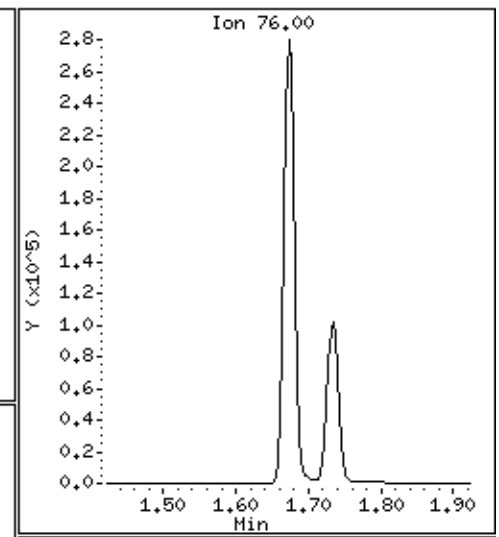
Column phase: DB-624

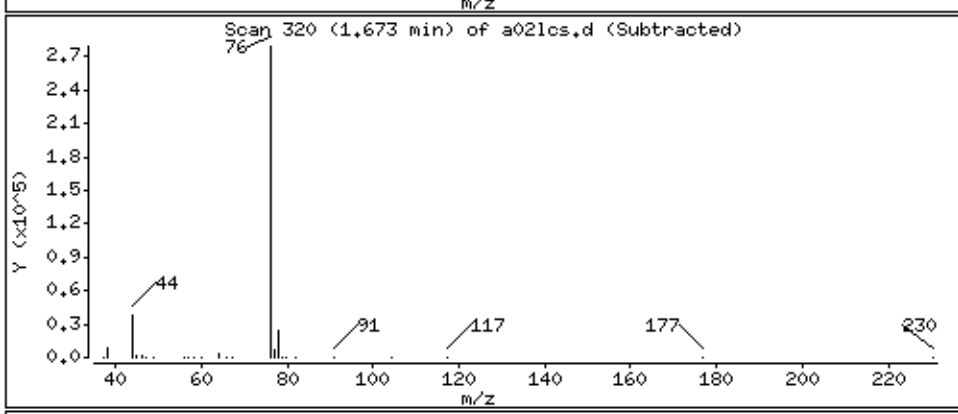
Column diameter: 0.18

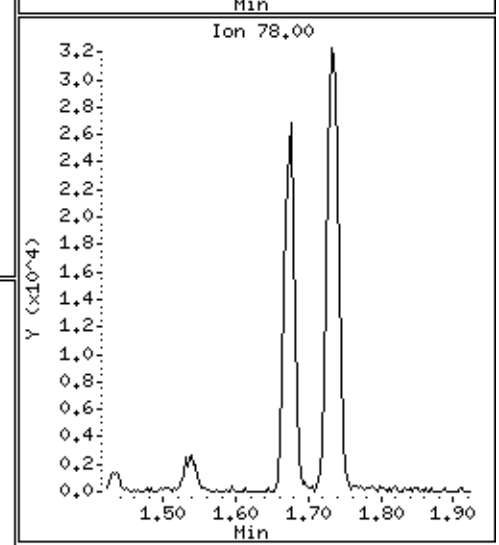
14 Carbon Disulfide

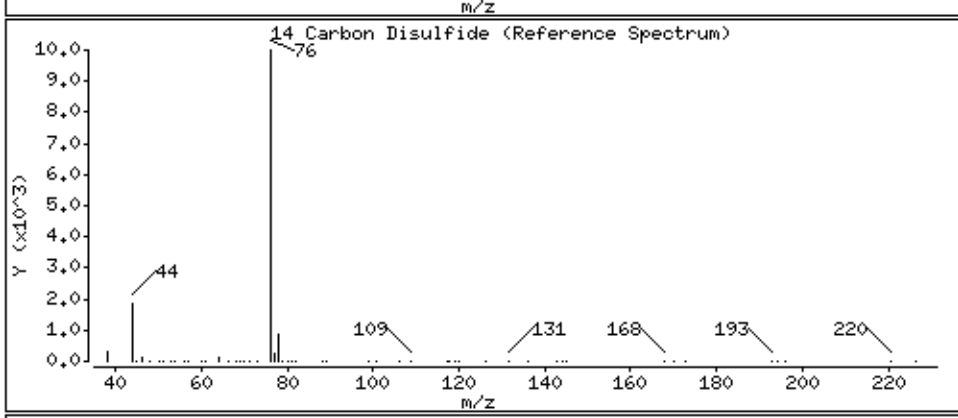
Concentration: 41.0 ppb

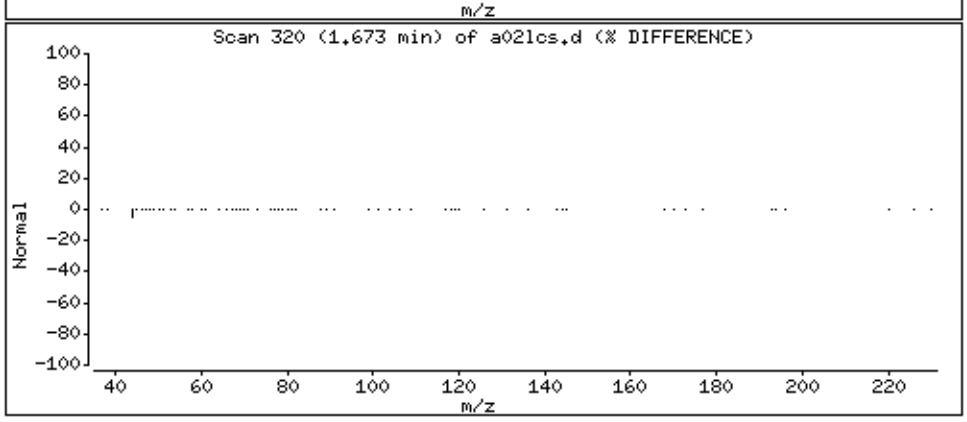












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

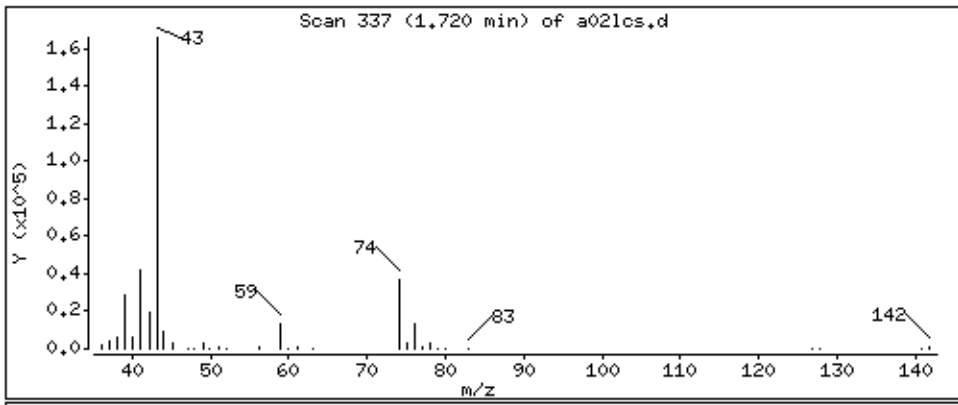
Operator: dae

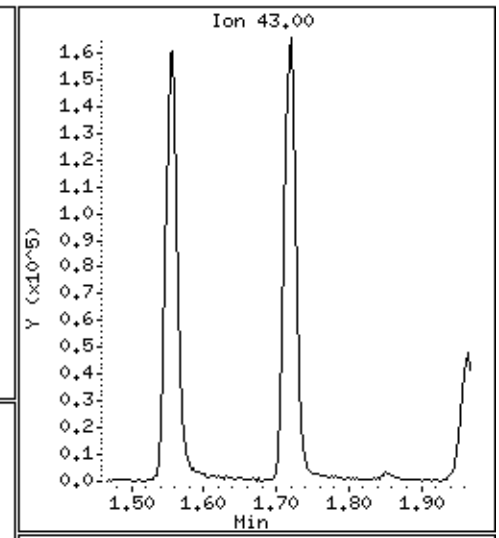
Column phase: DB-624

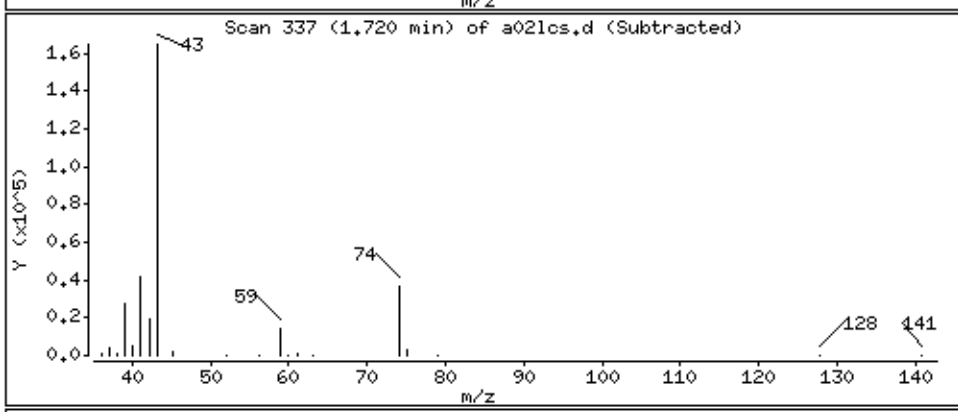
Column diameter: 0.18

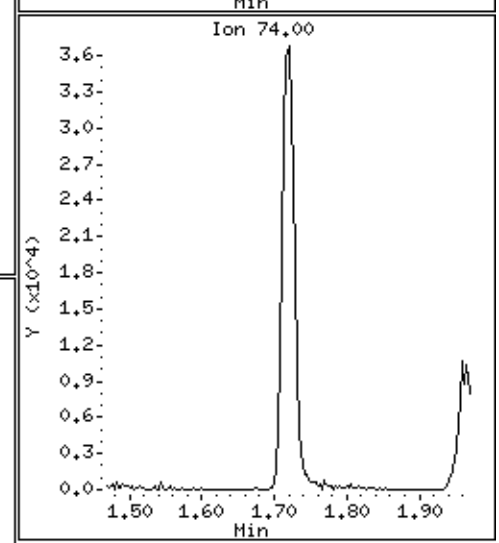
15 Methyl Acetate

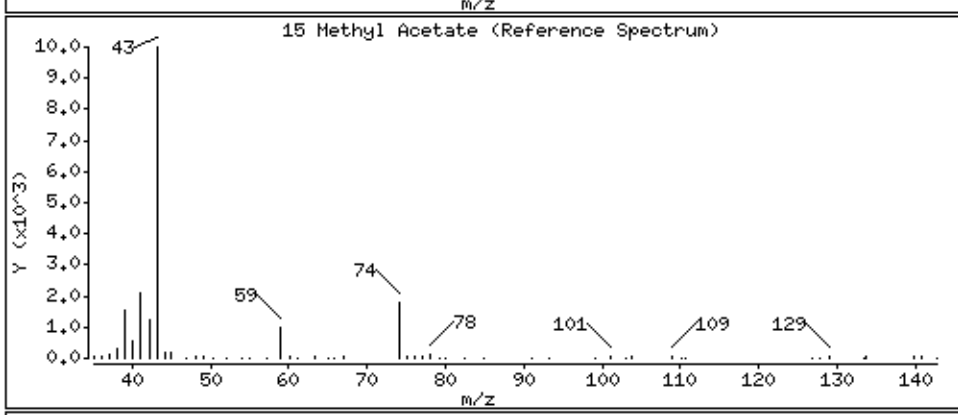
Concentration: 65.6 ppb

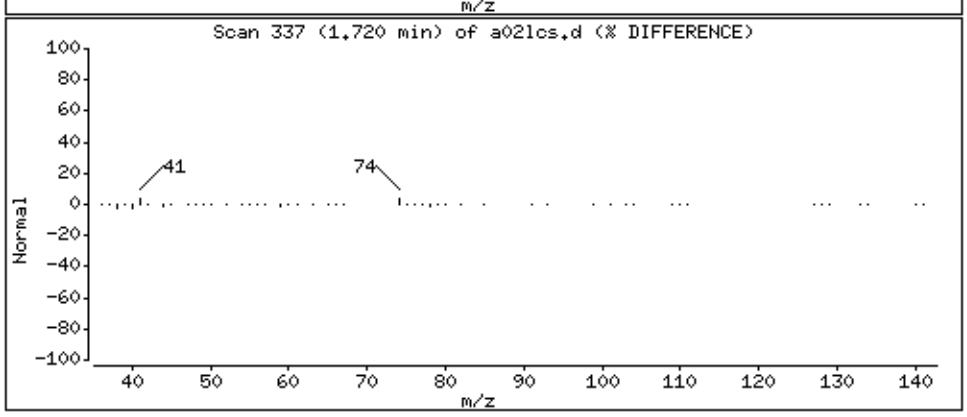












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

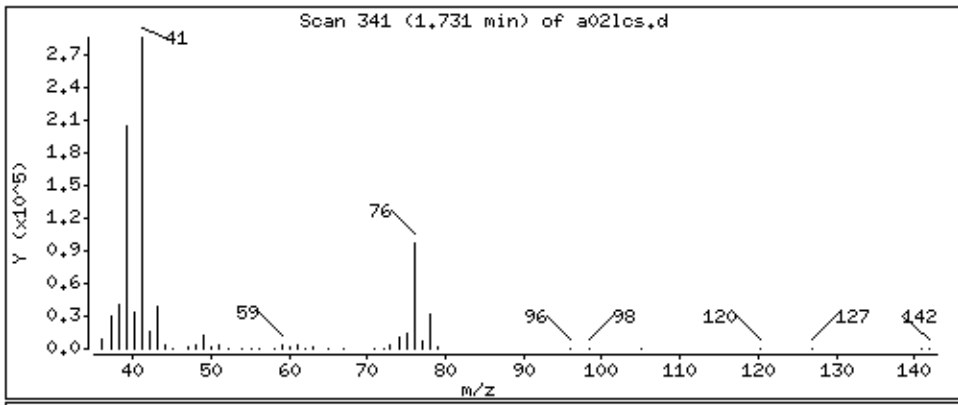
Operator: dae

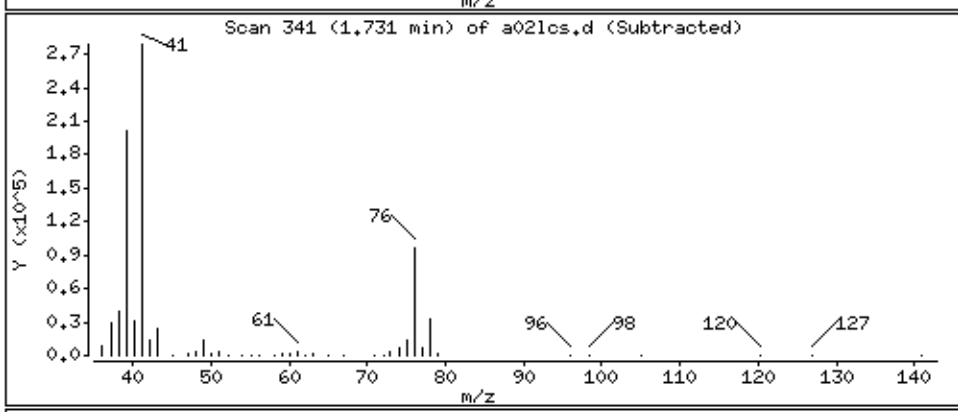
Column phase: DB-624

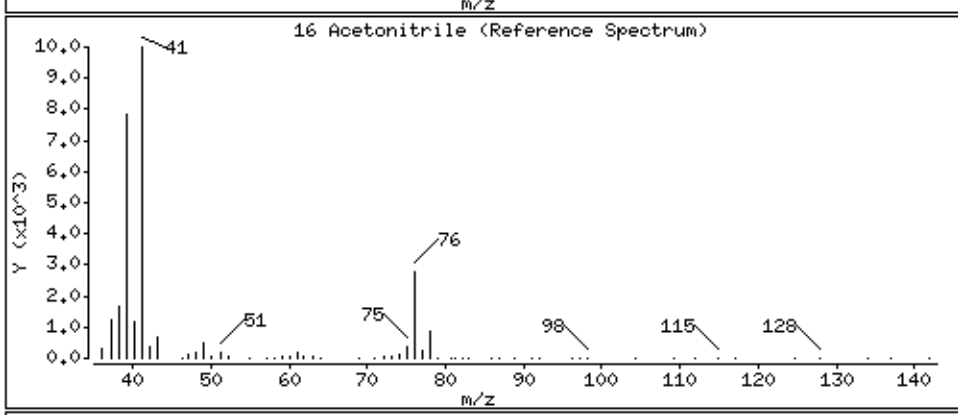
Column diameter: 0.18

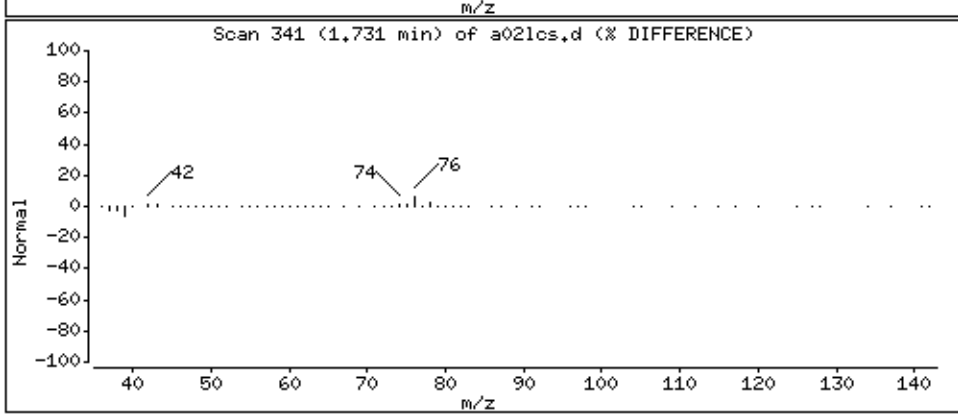
16 Acetonitrile

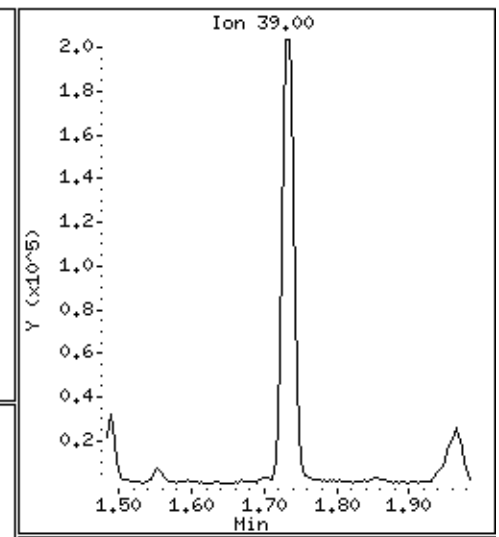
Concentration: 38.5 ppb

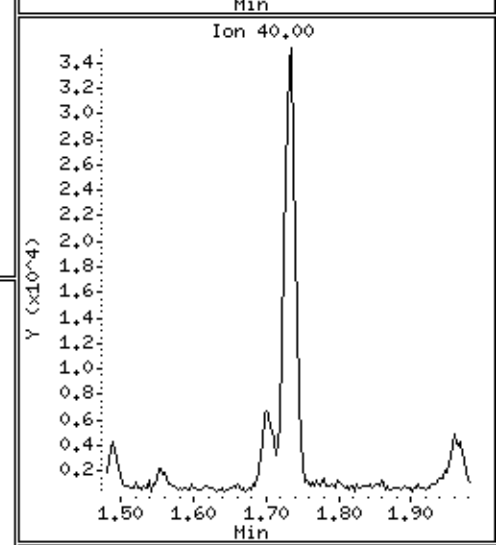


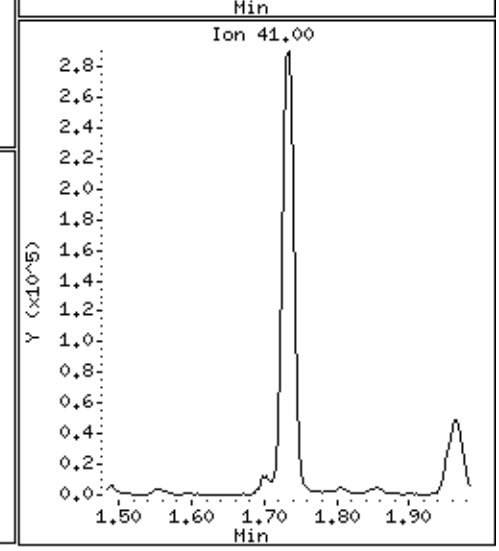












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

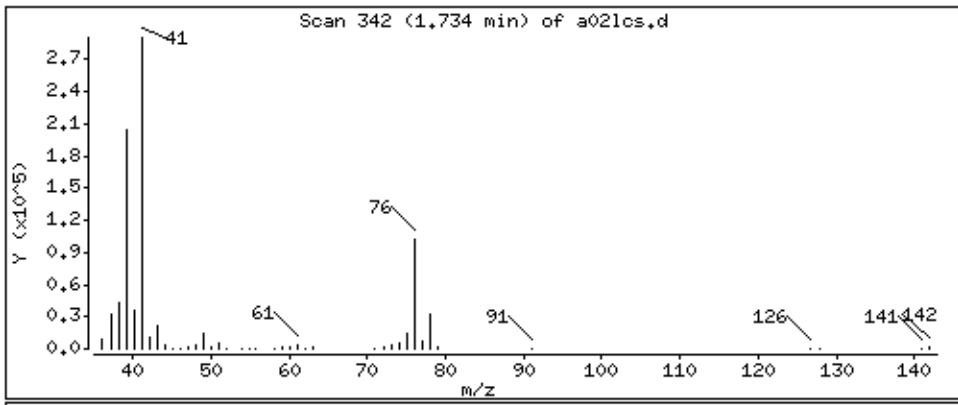
Operator: dae

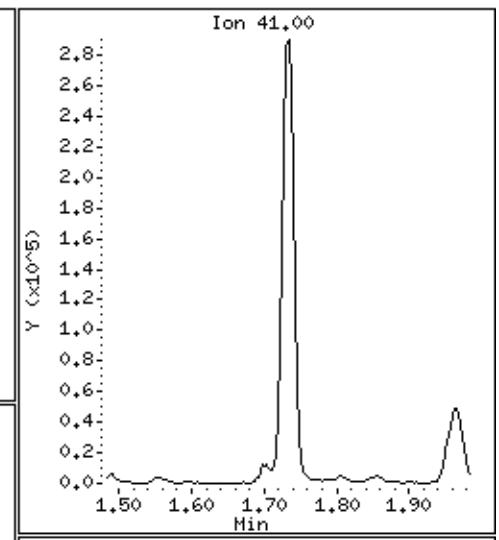
Column phase: DB-624

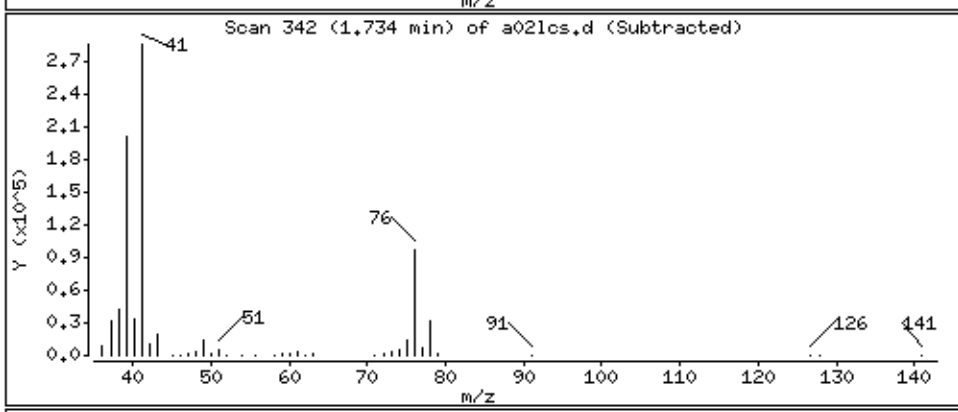
Column diameter: 0.18

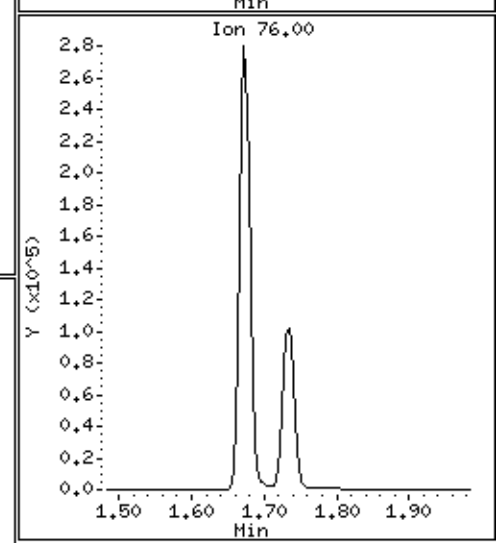
17 allyl chloride

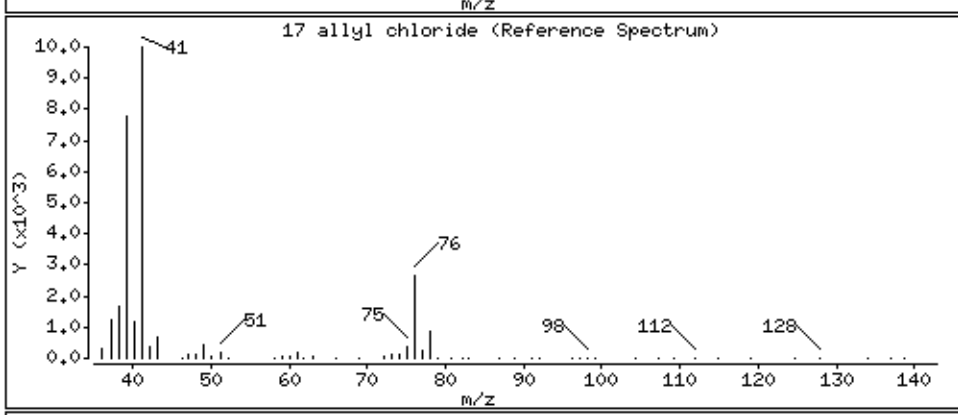
Concentration: 80.8 ppb

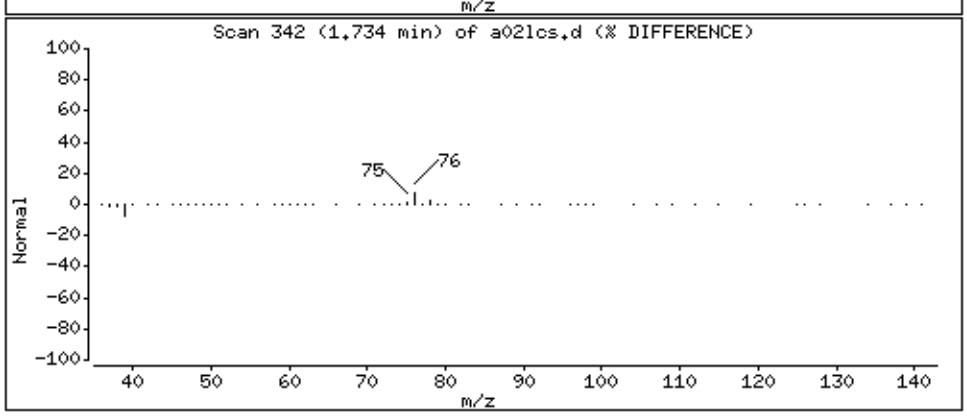












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

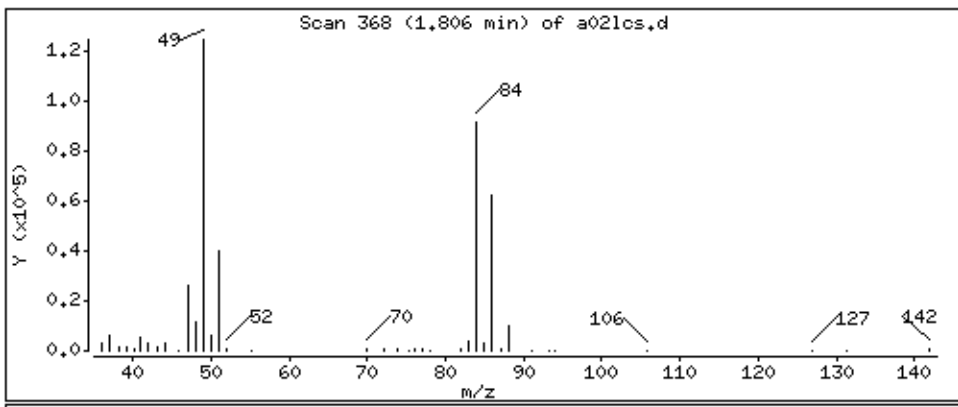
Operator: dae

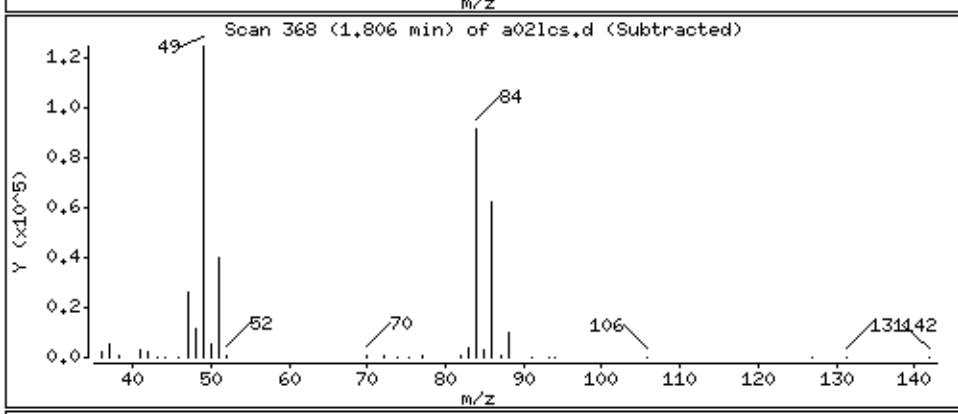
Column phase: DB-624

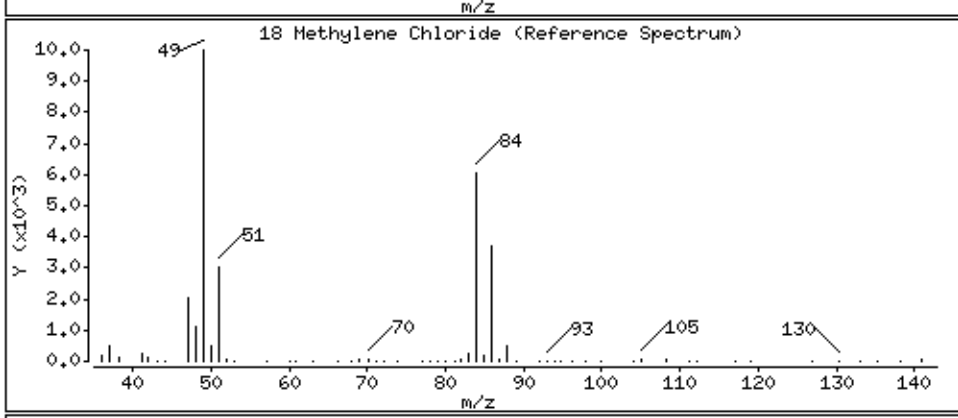
Column diameter: 0.18

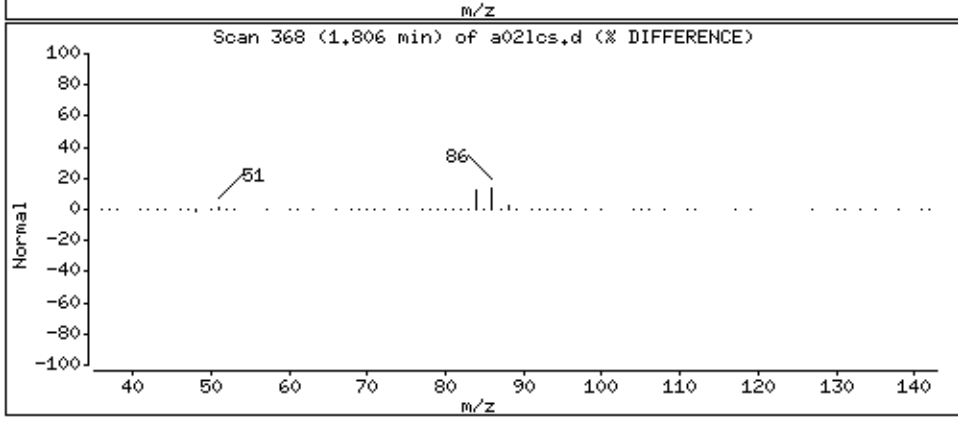
18 Methylene Chloride

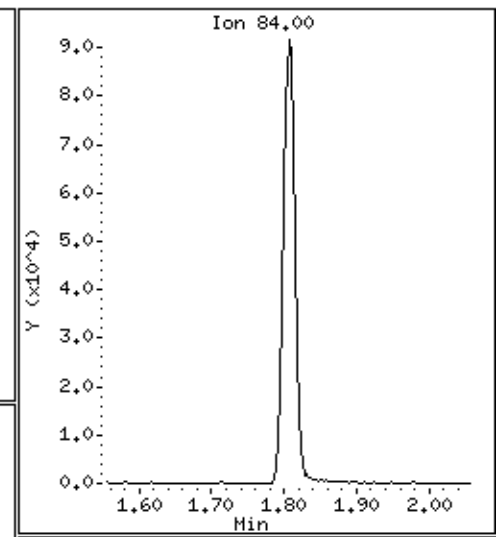
Concentration: 46.6 ppb

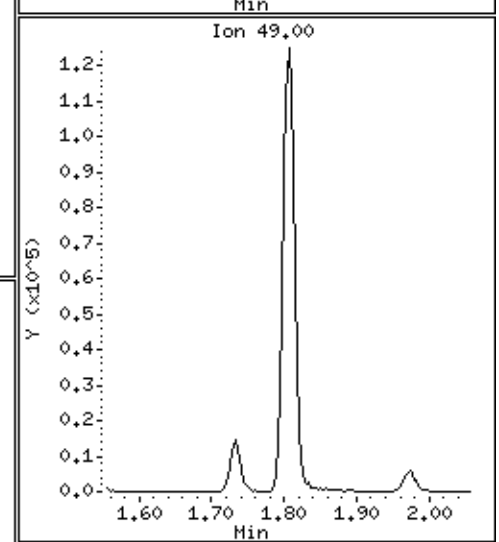


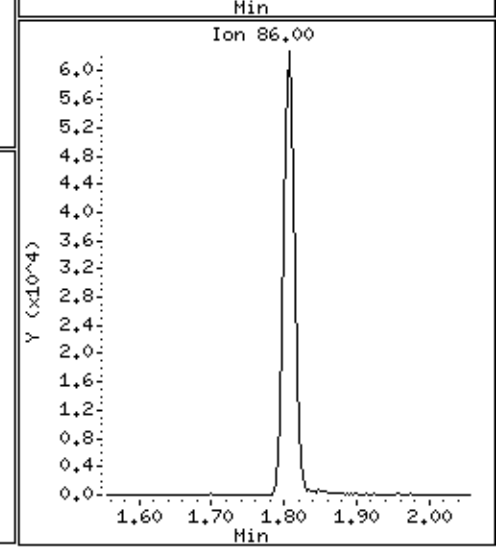












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

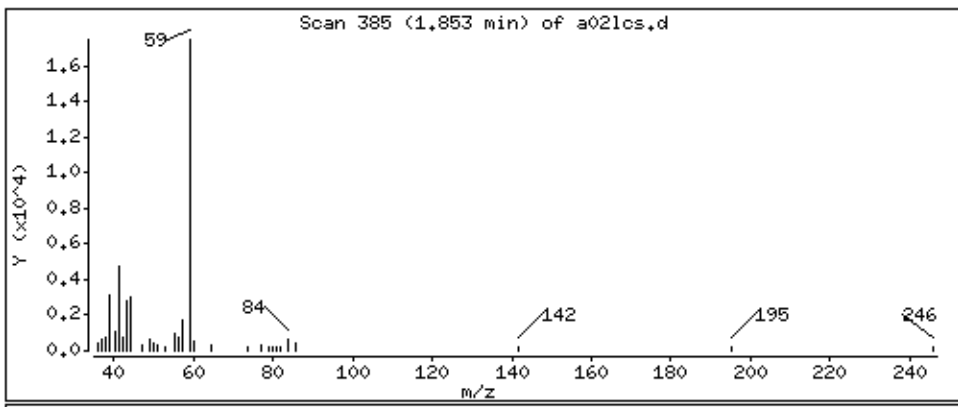
Operator: dae

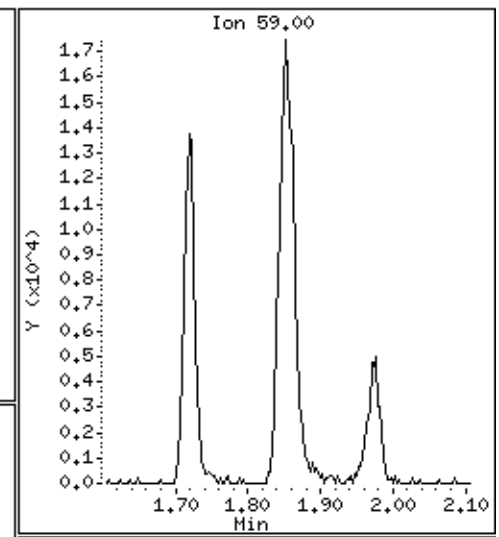
Column phase: DB-624

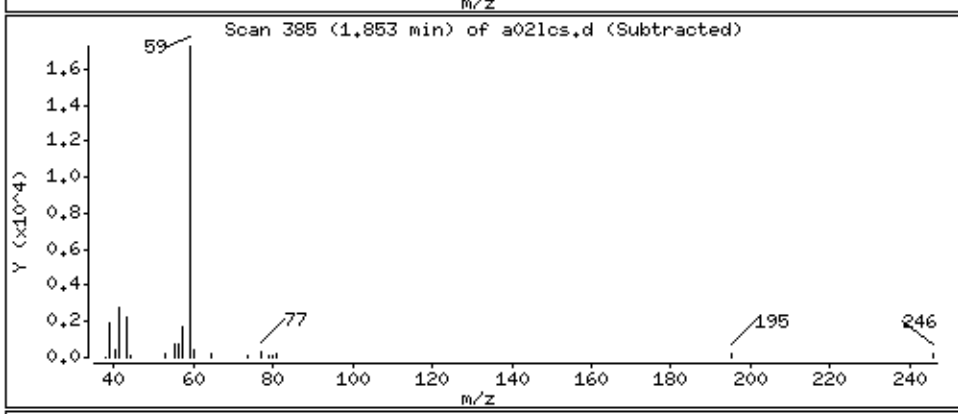
Column diameter: 0.18

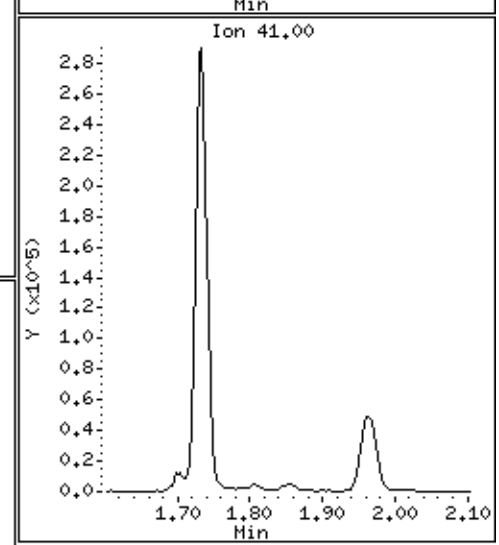
19 tert-Butyl Alcohol

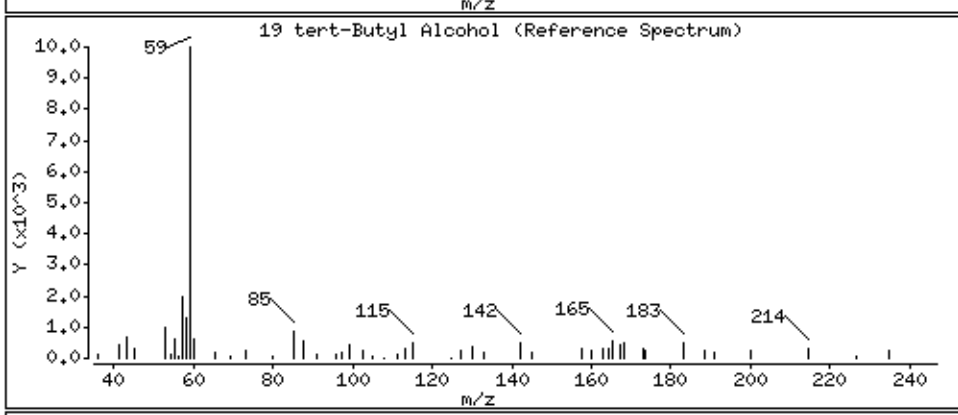
Concentration: 87.0 ppb

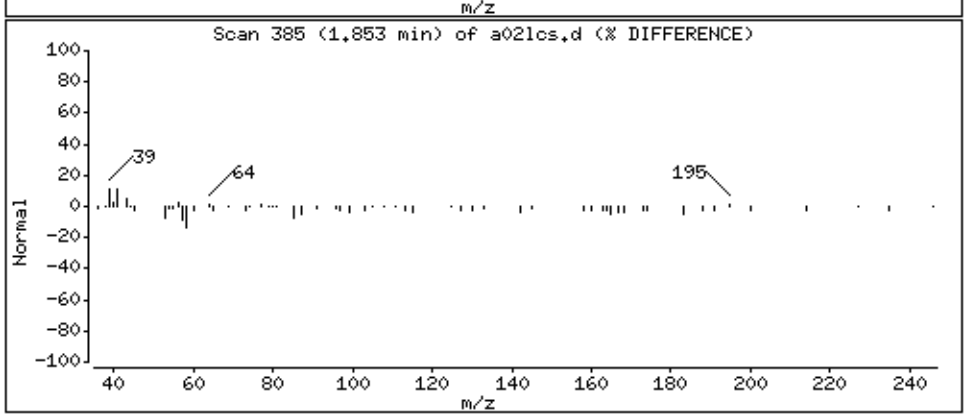












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

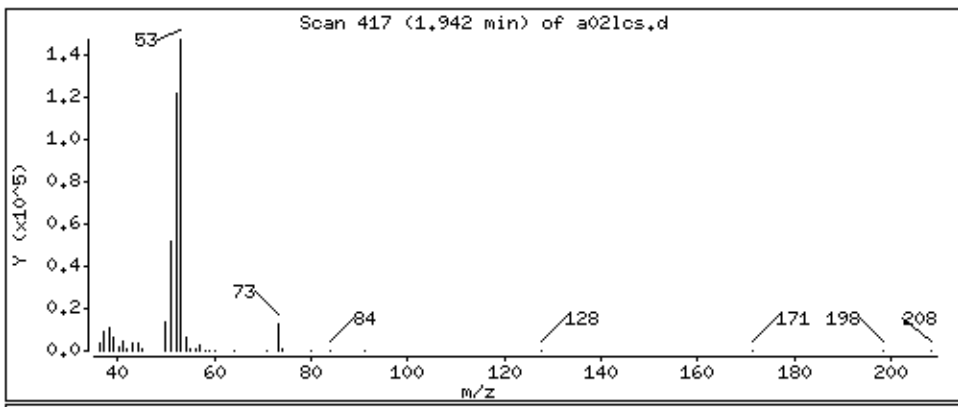
Operator: dae

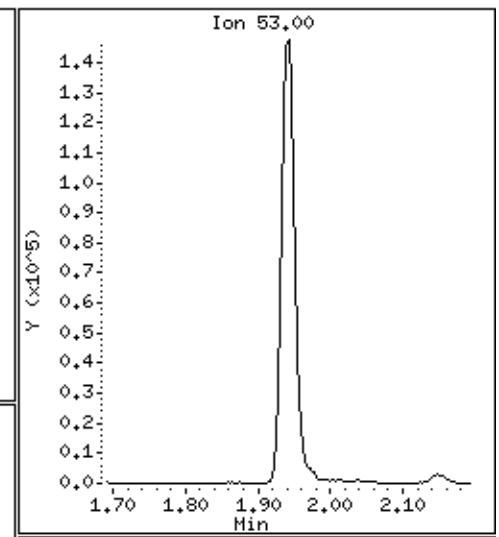
Column phase: DB-624

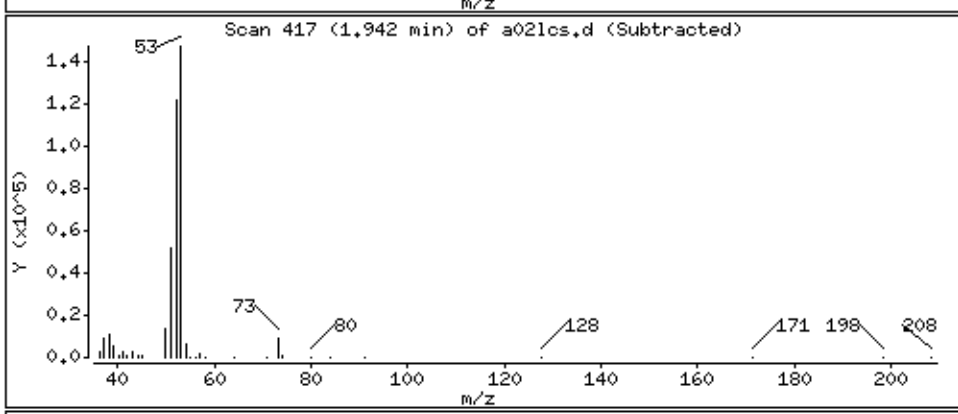
Column diameter: 0.18

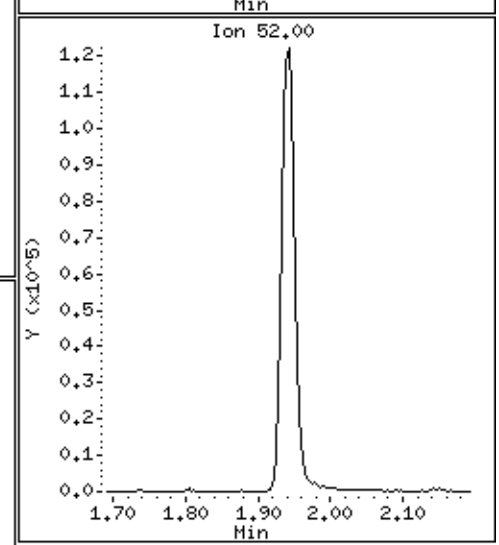
20 Acrylonitrile

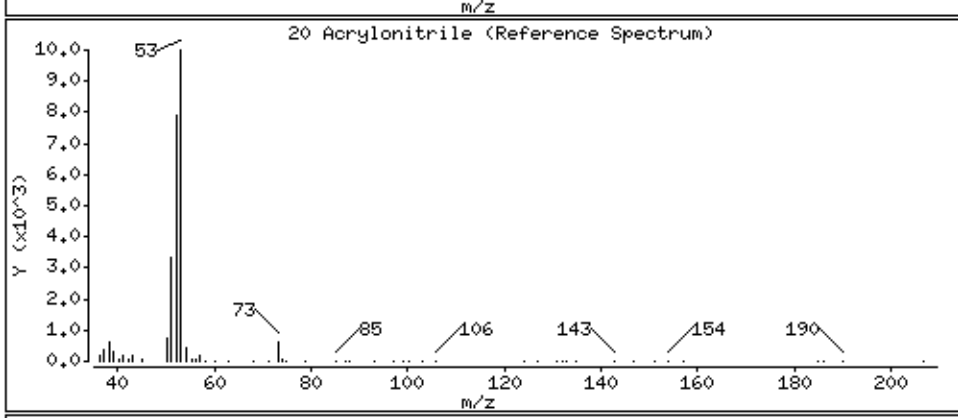
Concentration: 181 ppb

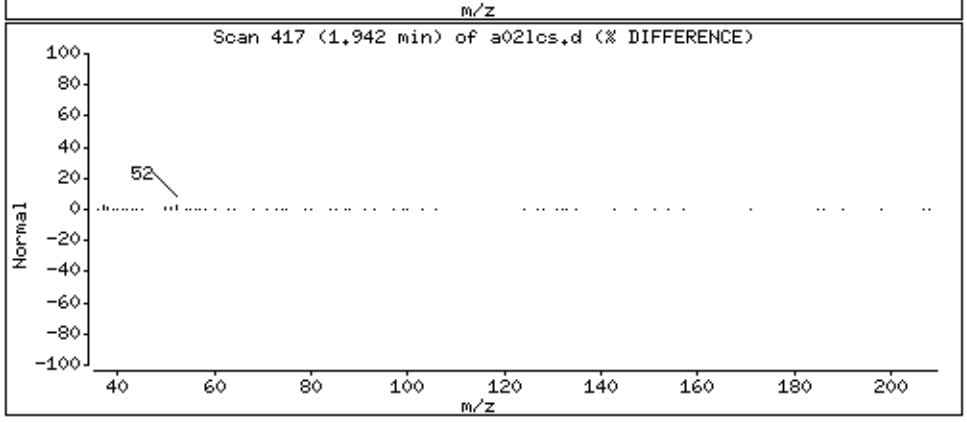












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

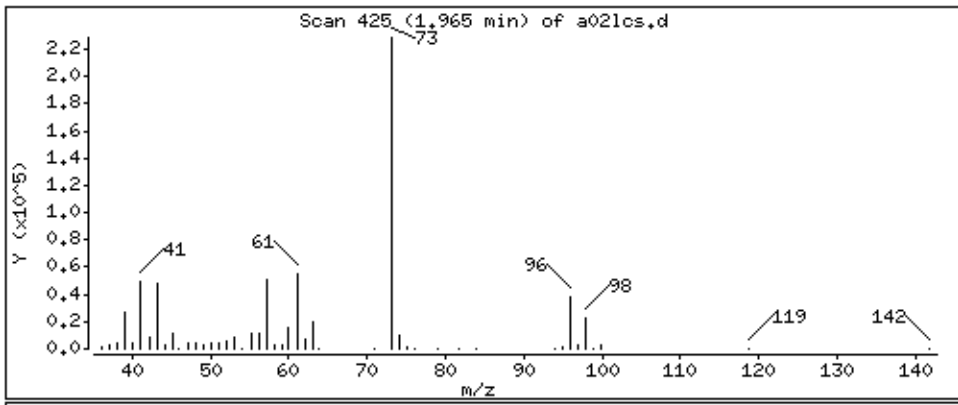
Operator: dae

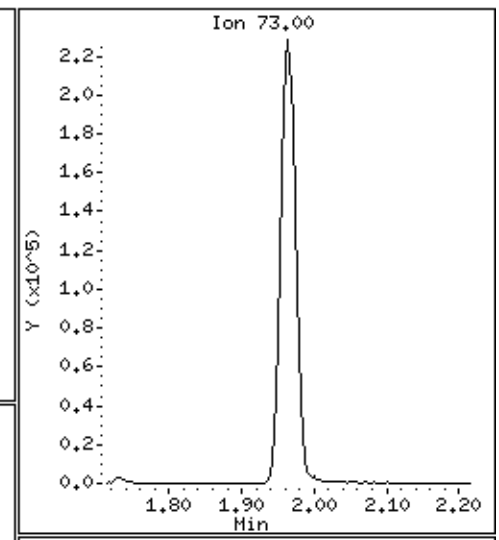
Column phase: DB-624

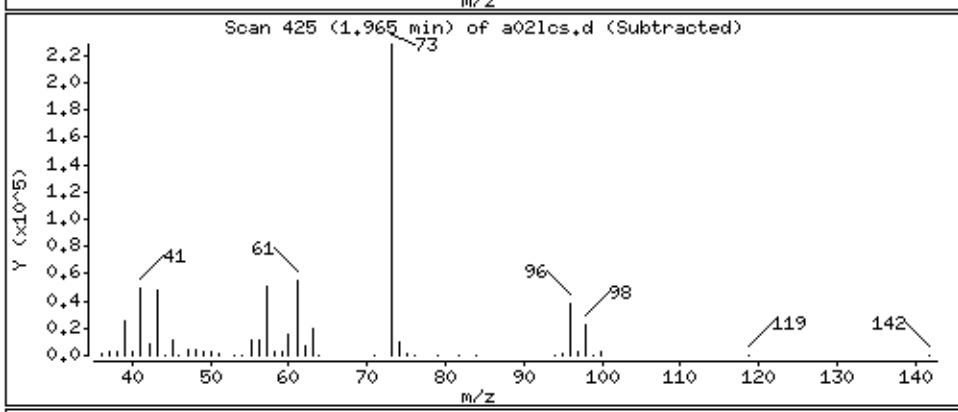
Column diameter: 0.18

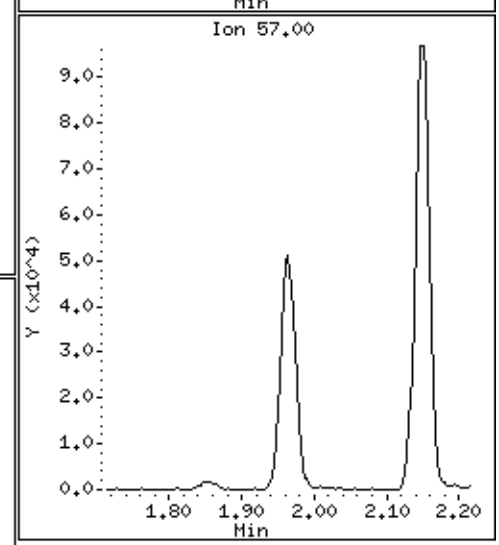
21 Methyl-tert-butyl ether

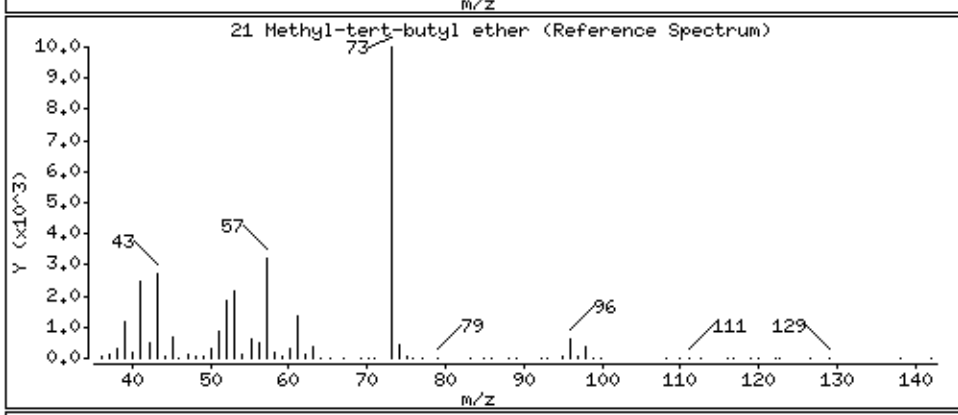
Concentration: 42.9 ppb

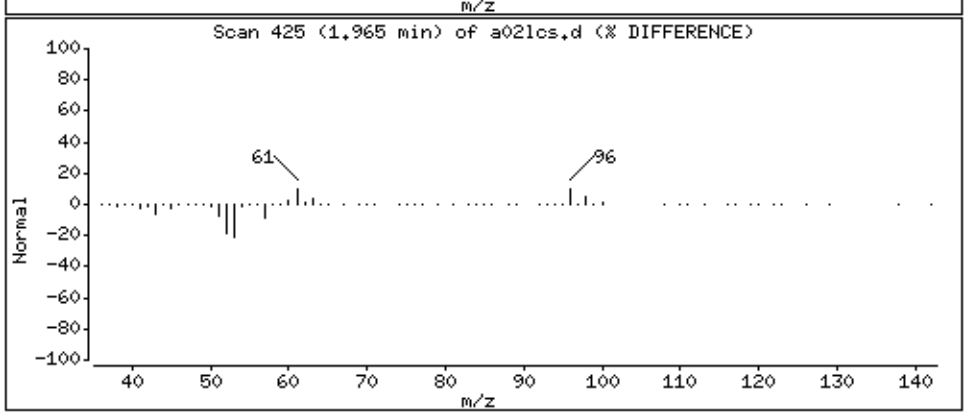












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

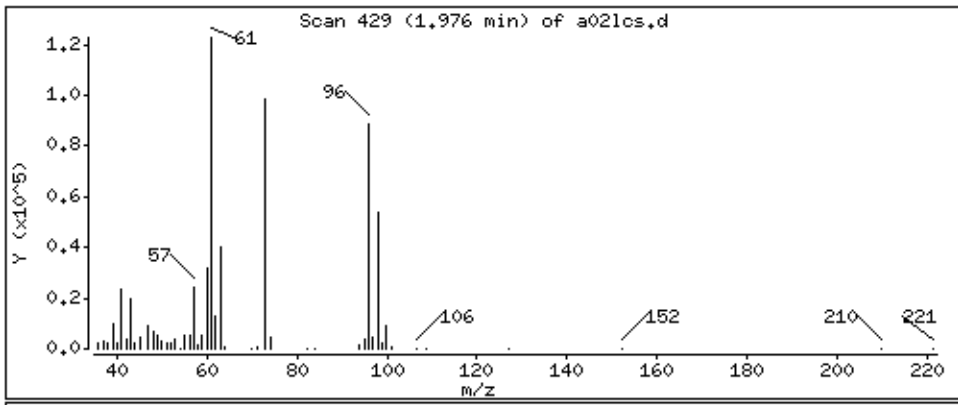
Operator: dae

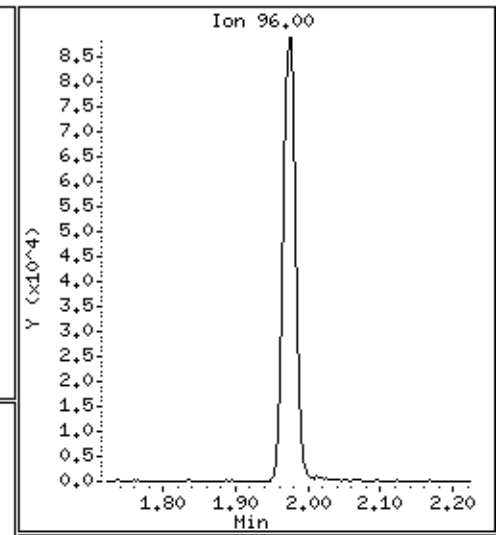
Column phase: DB-624

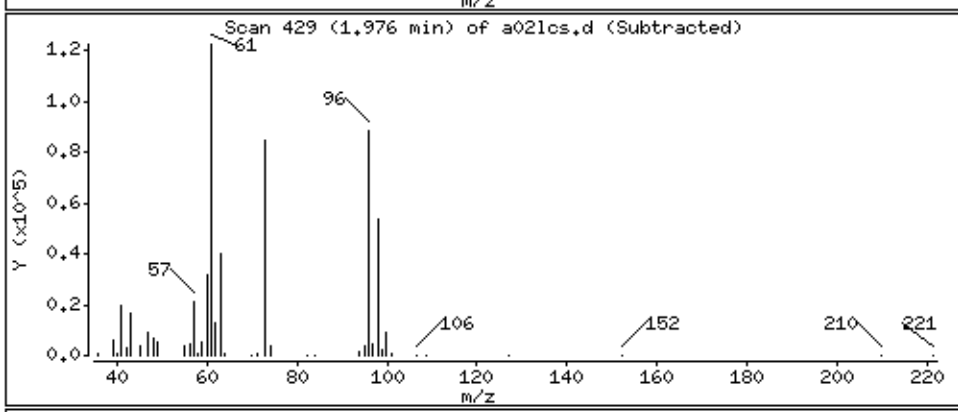
Column diameter: 0.18

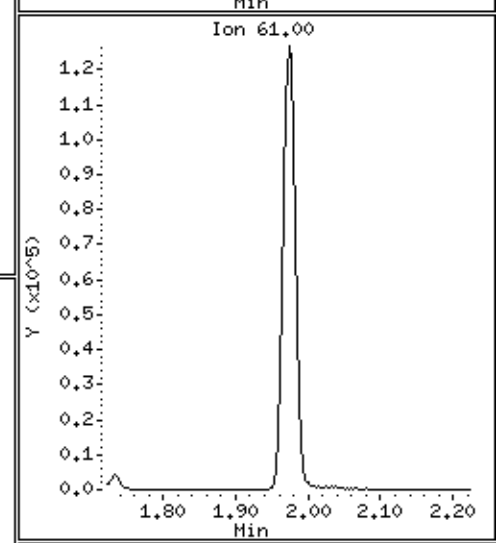
22 1,2-Dichloroethene (trans)

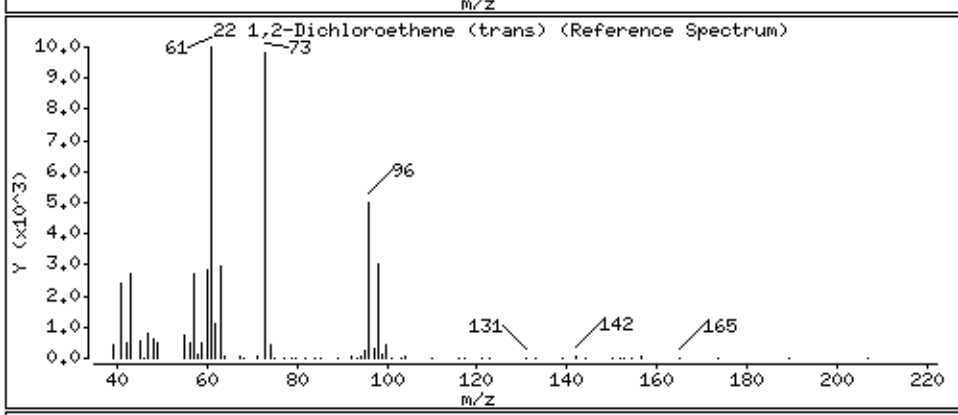
Concentration: 45.0 ppb

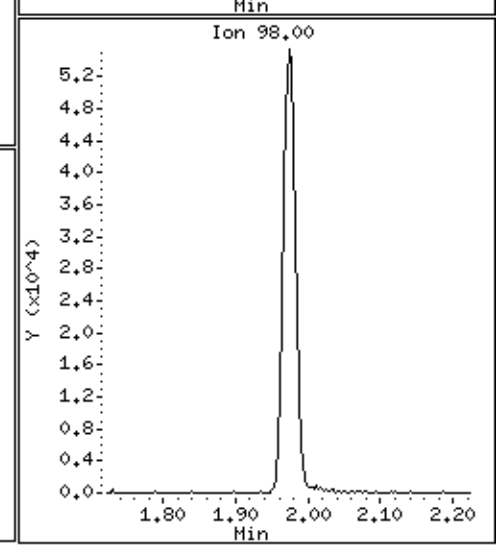


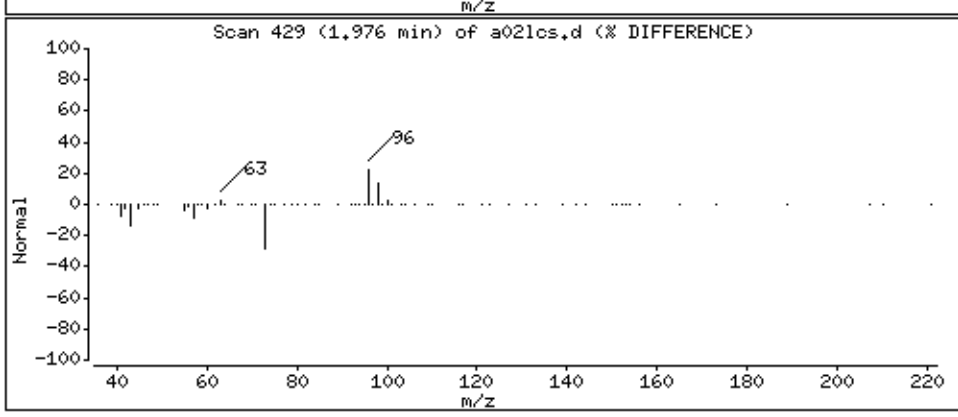












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

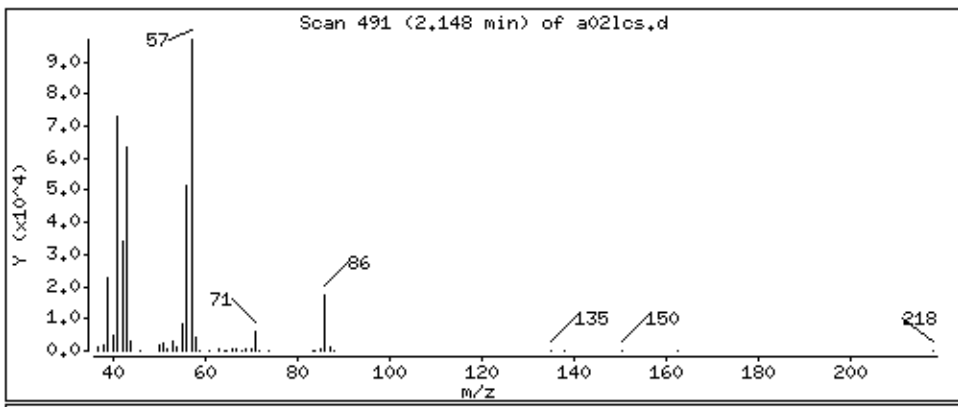
Operator: dae

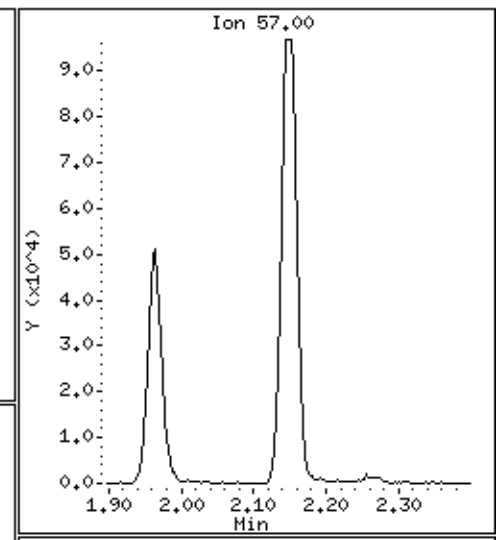
Column phase: DB-624

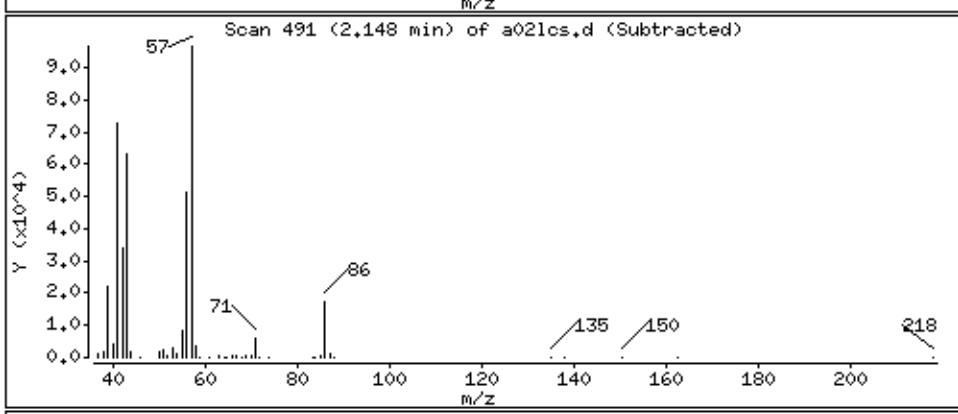
Column diameter: 0.18

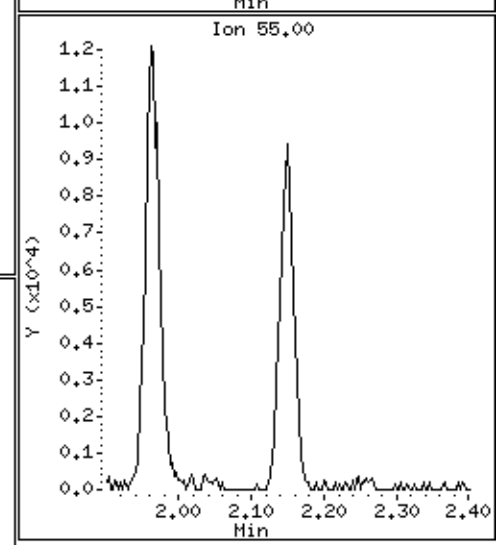
23 n-Hexane

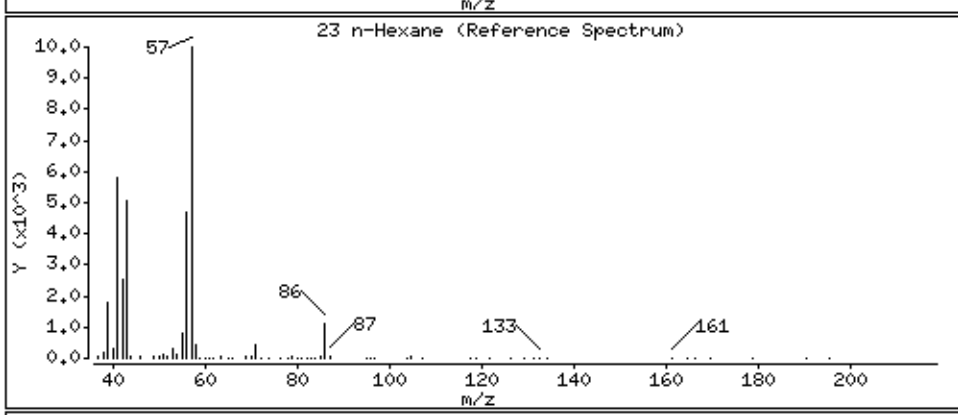
Concentration: 44.1 ppb

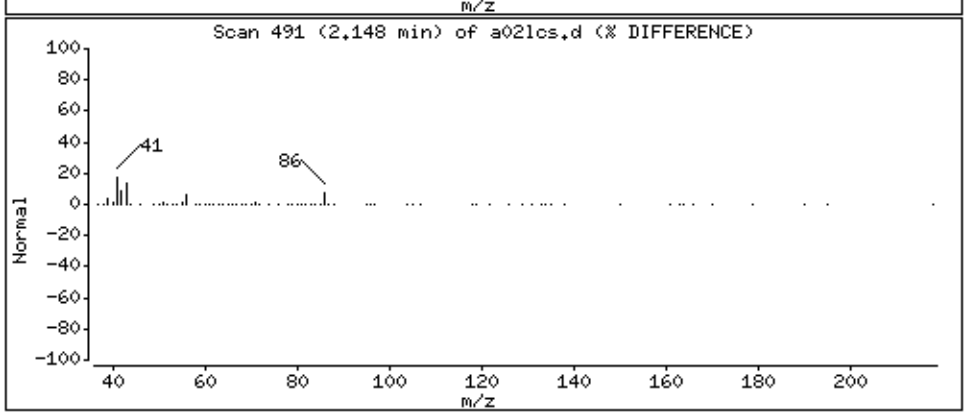












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

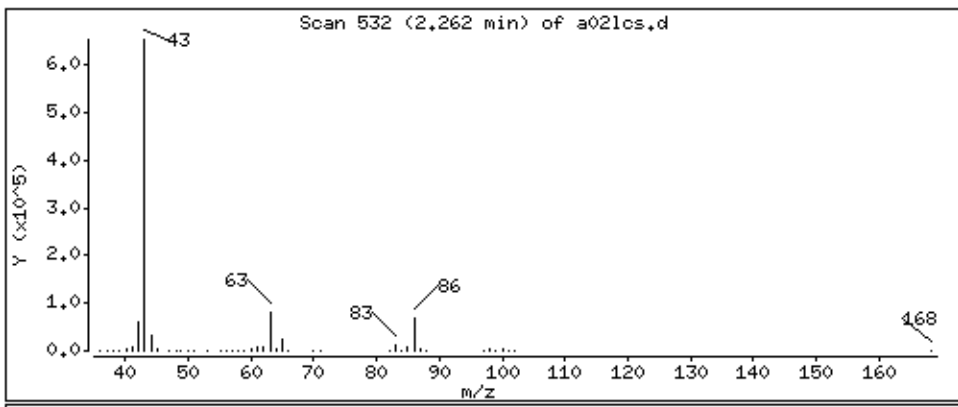
Operator: dae

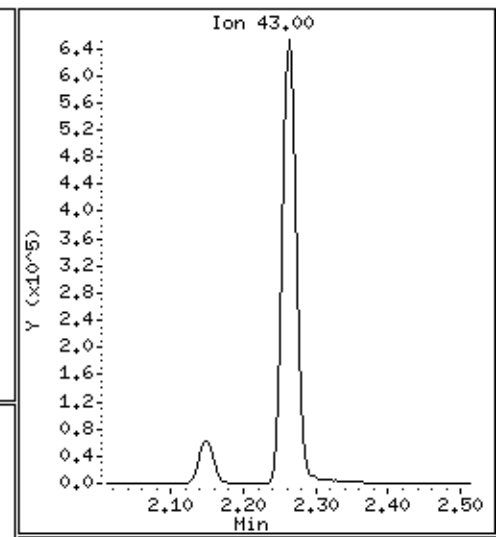
Column phase: DB-624

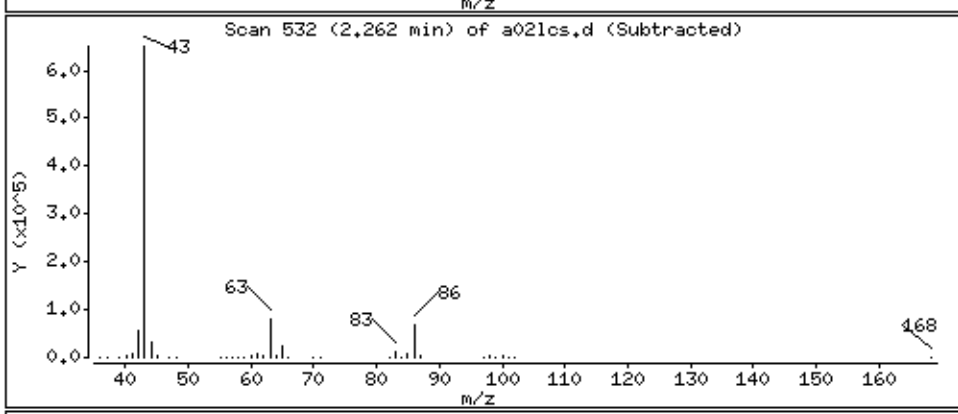
Column diameter: 0.18

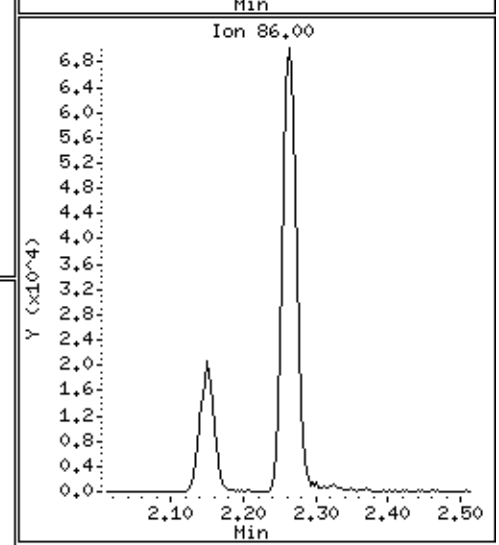
24 Vinyl Acetate

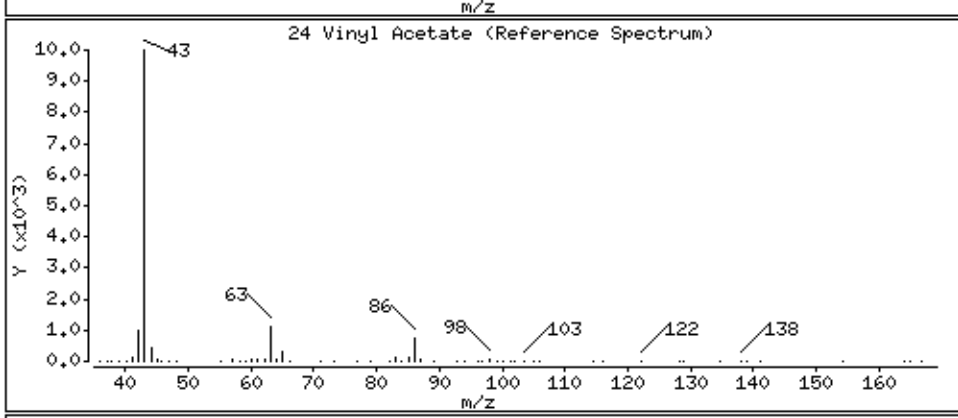
Concentration: 169 ppb

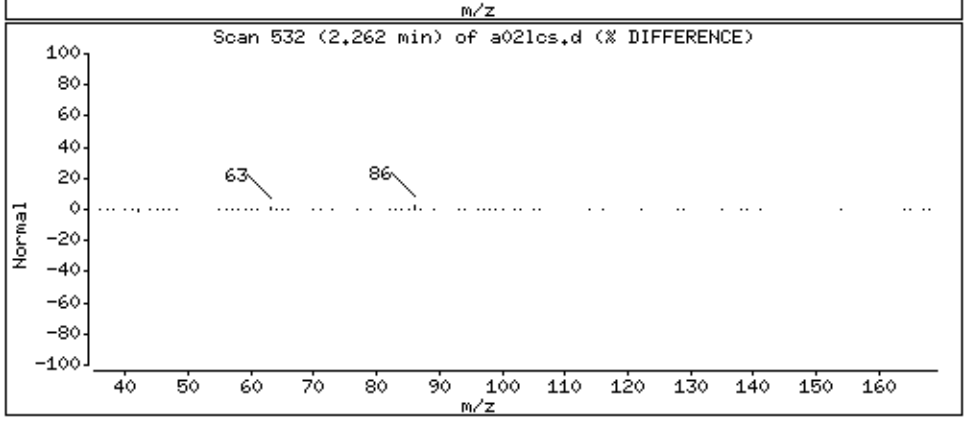












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

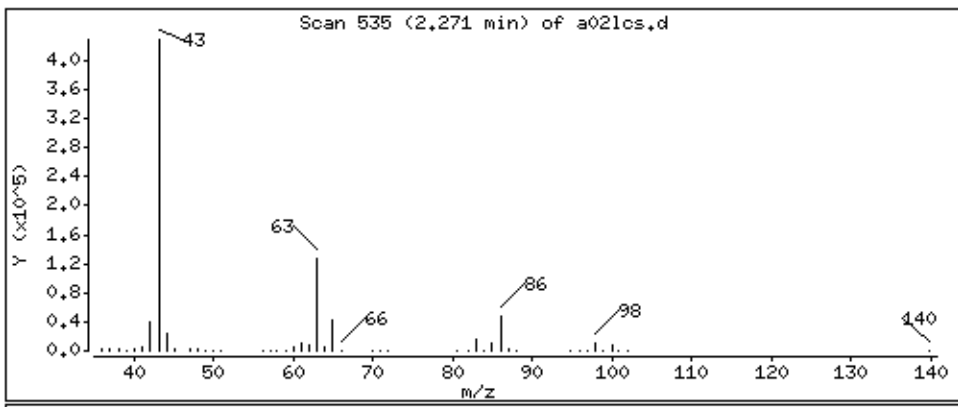
Operator: dae

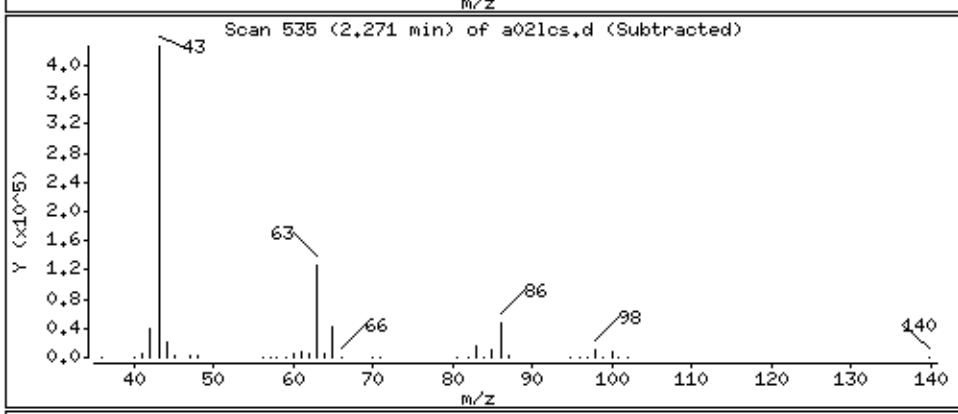
Column phase: DB-624

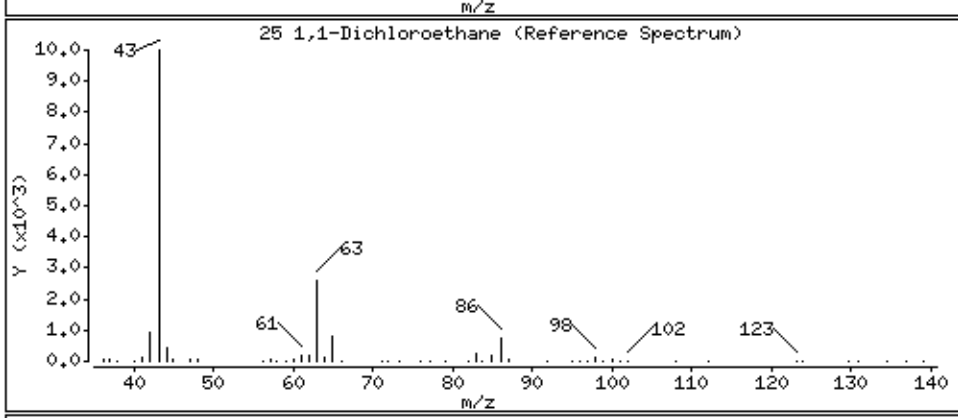
Column diameter: 0.18

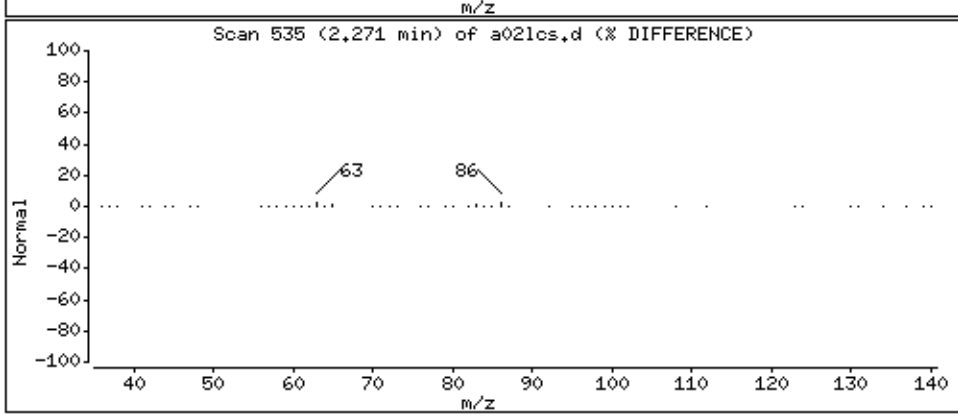
25 1,1-Dichloroethane

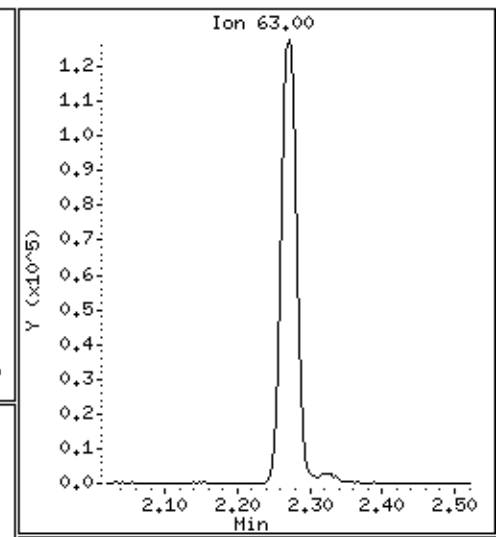
Concentration: 45.2 ppb

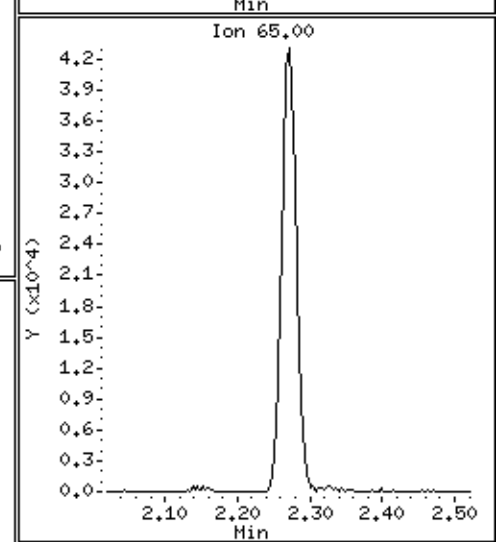


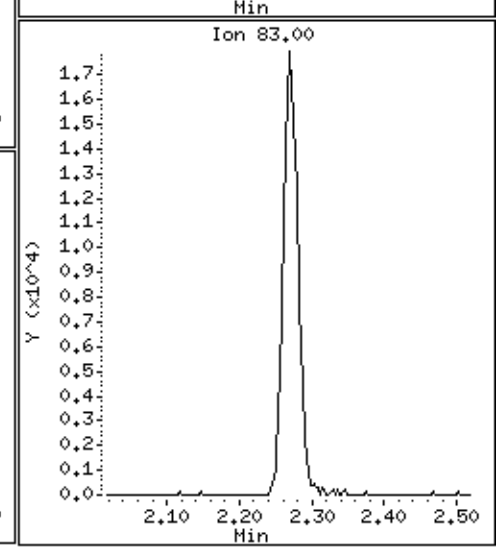












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

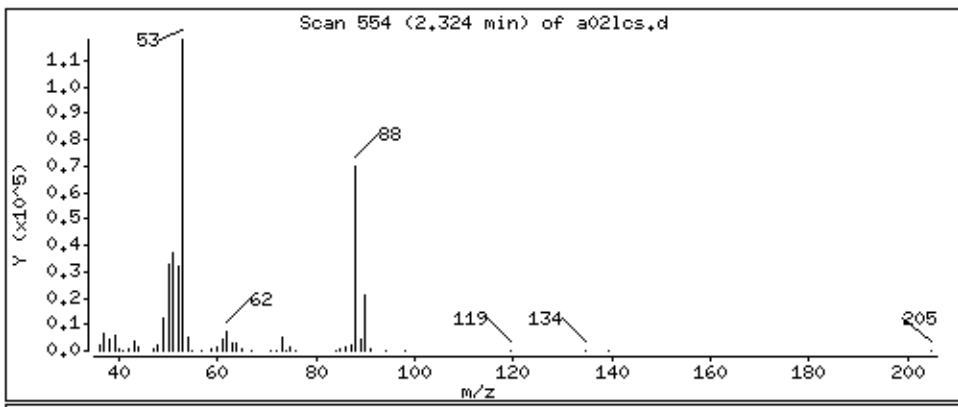
Operator: dae

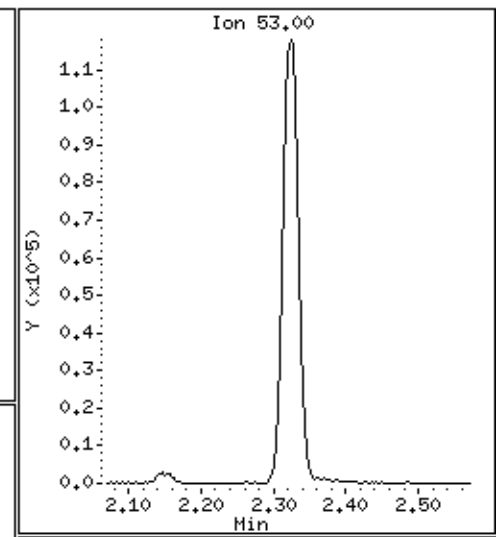
Column phase: DB-624

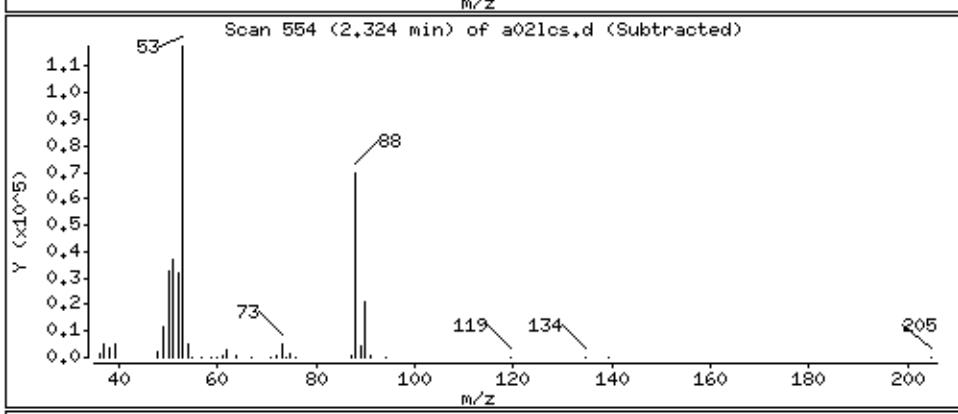
Column diameter: 0.18

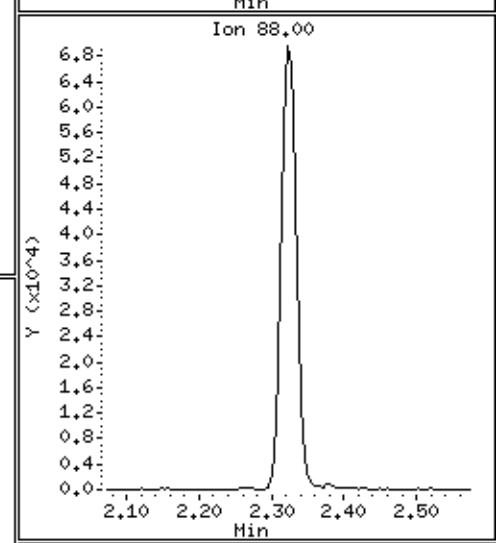
26 Chloroprene

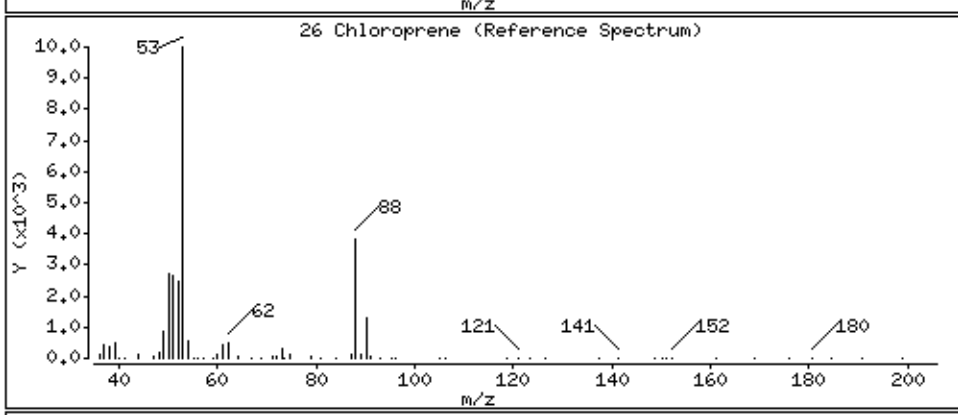
Concentration: 47.0 ppb

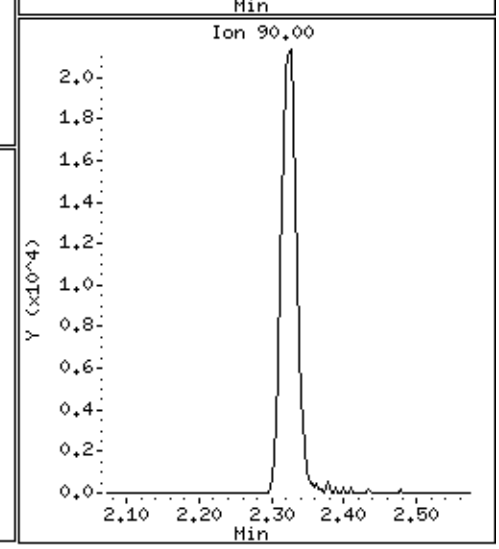


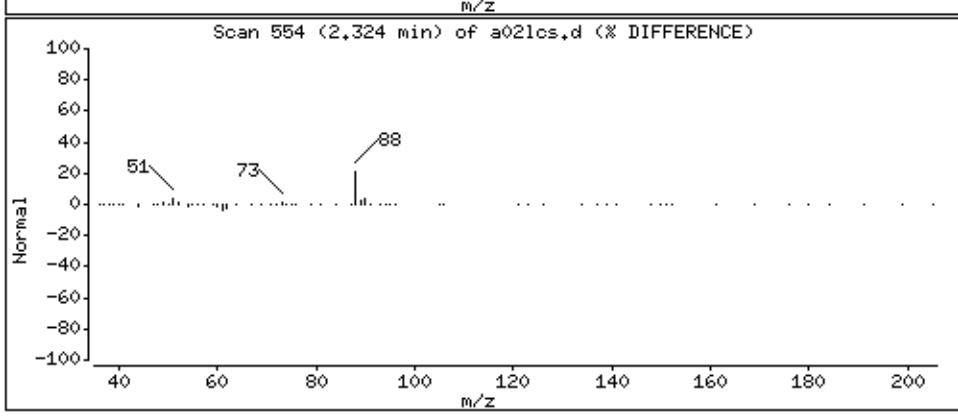












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

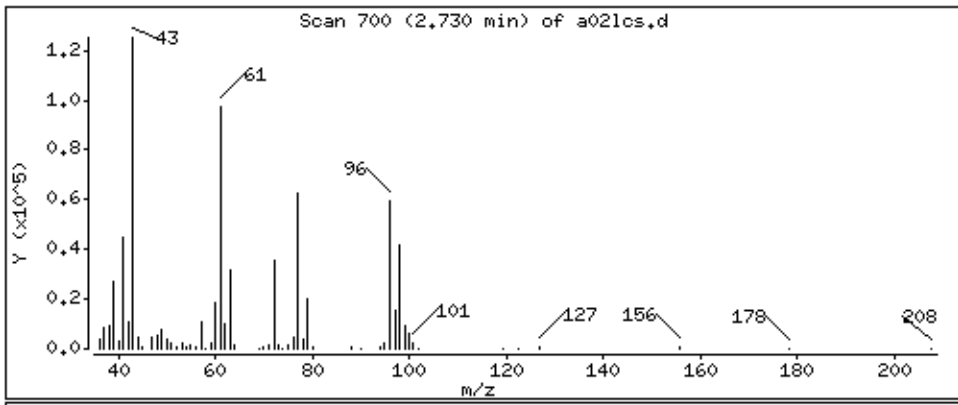
Operator: dae

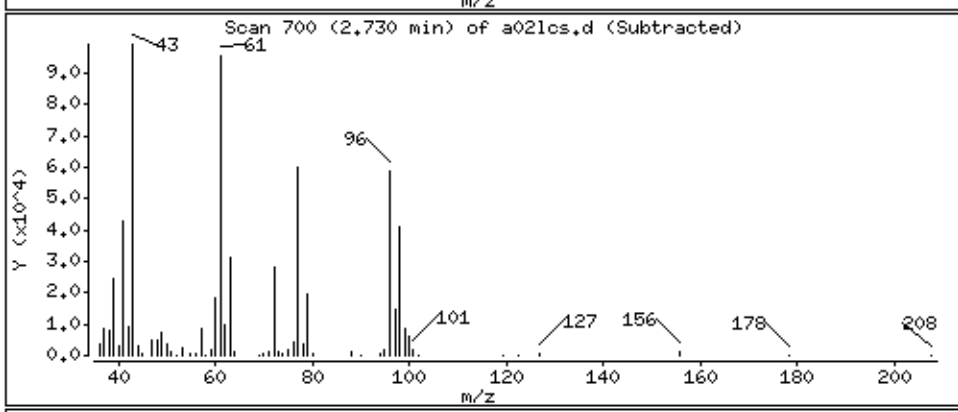
Column phase: DB-624

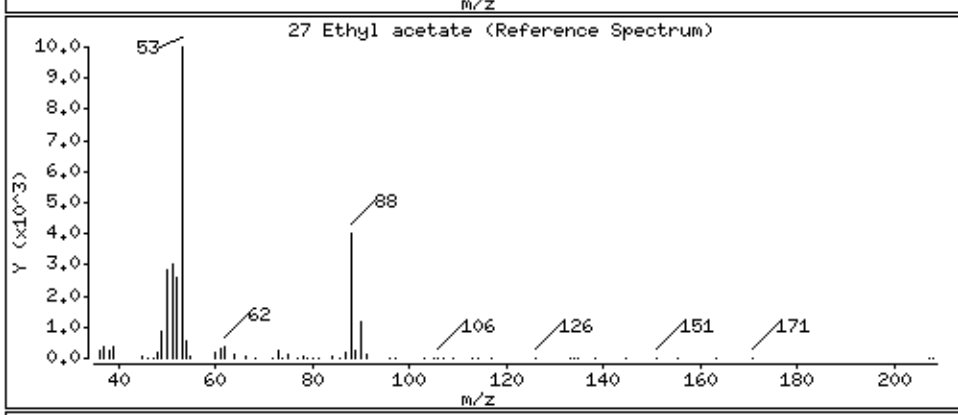
Column diameter: 0.18

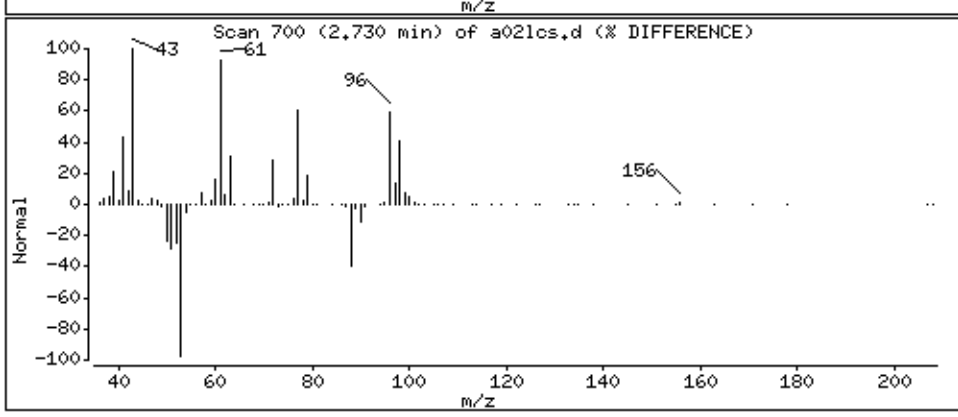
27 Ethyl acetate

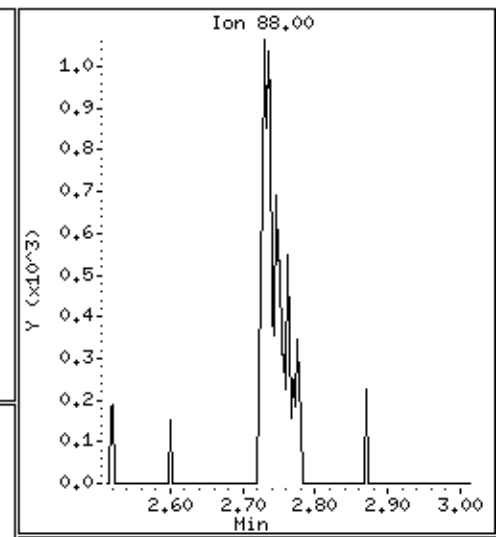
Concentration: 12.8 ppb

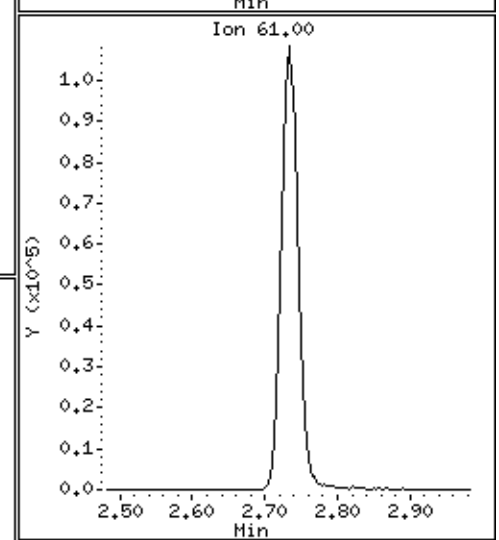


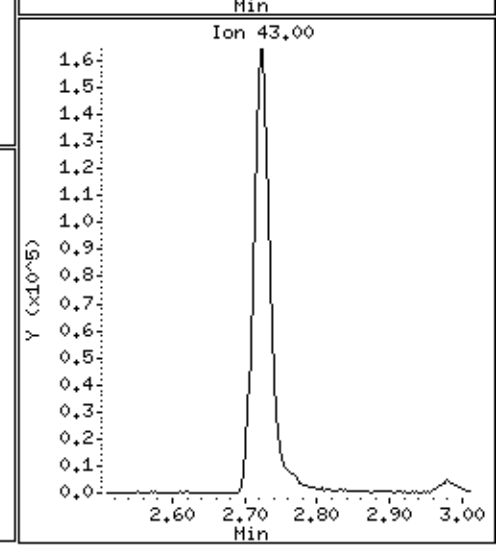












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

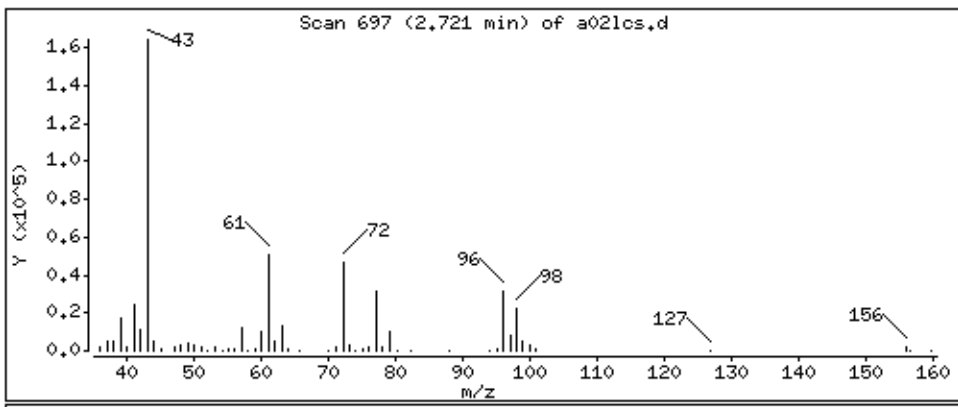
Operator: dae

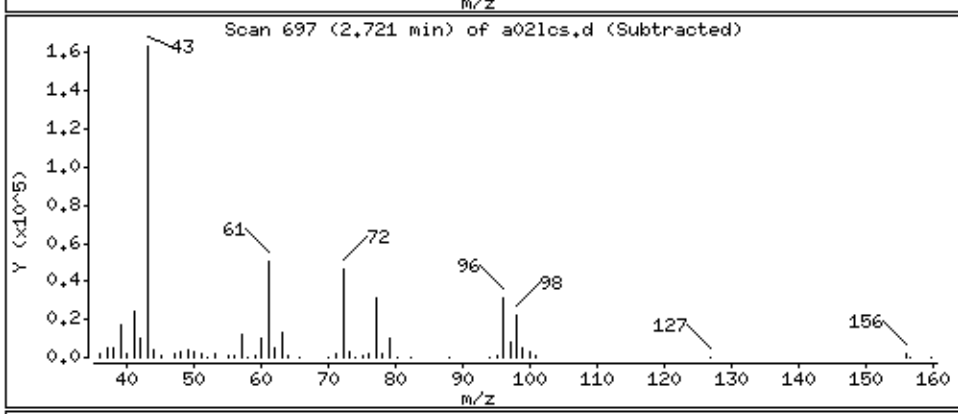
Column phase: DB-624

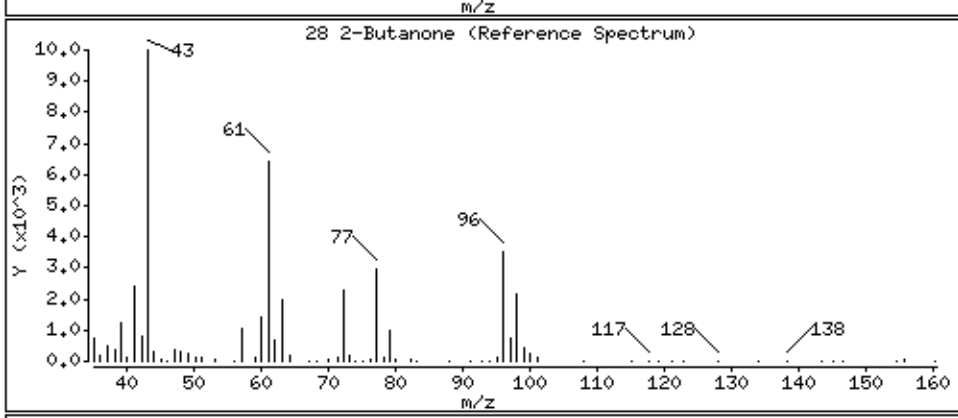
Column diameter: 0.18

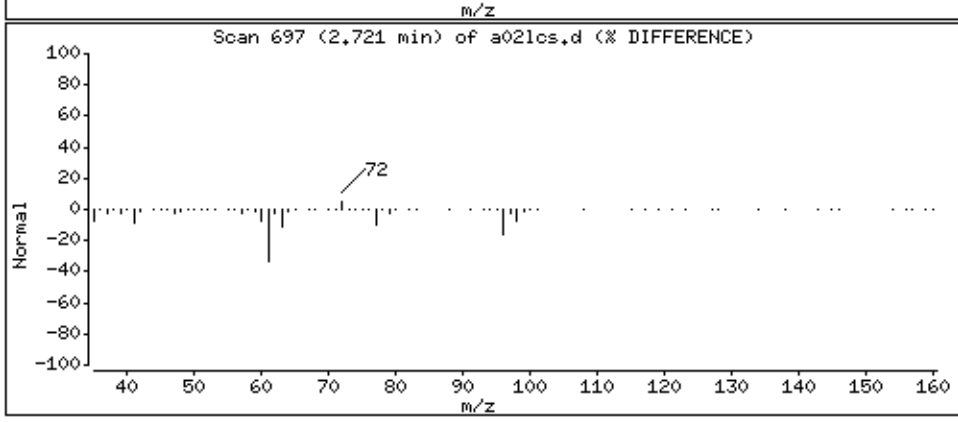
28 2-Butanone

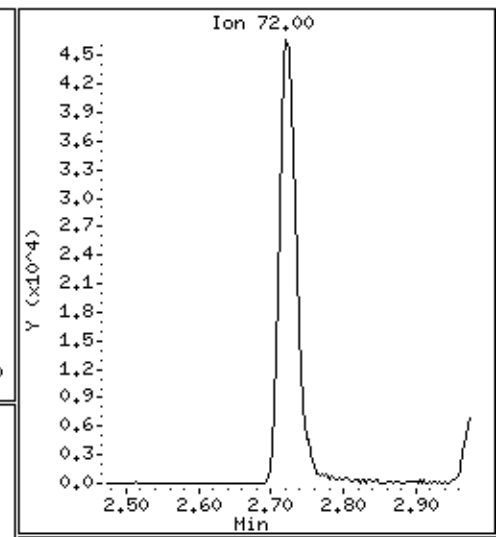
Concentration: 222 ppb

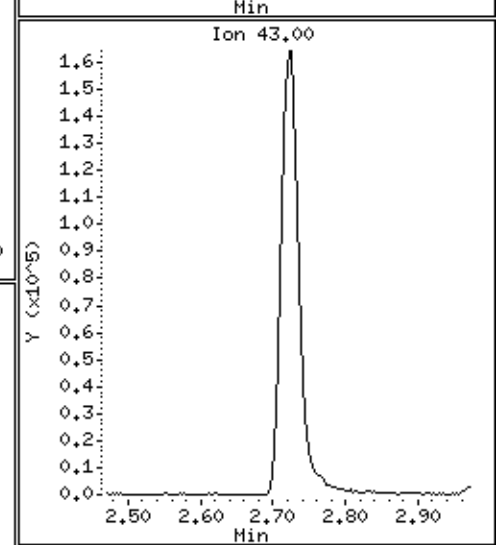


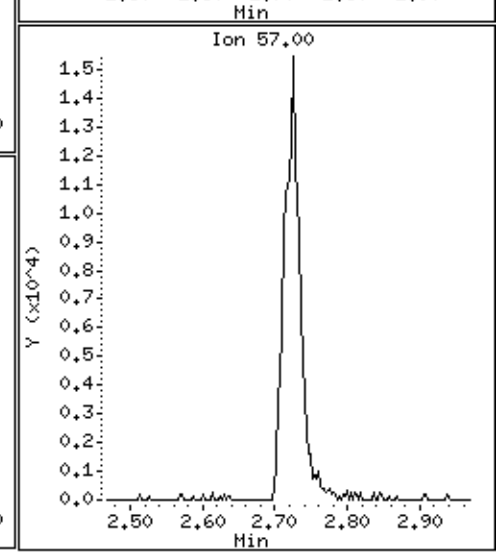












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

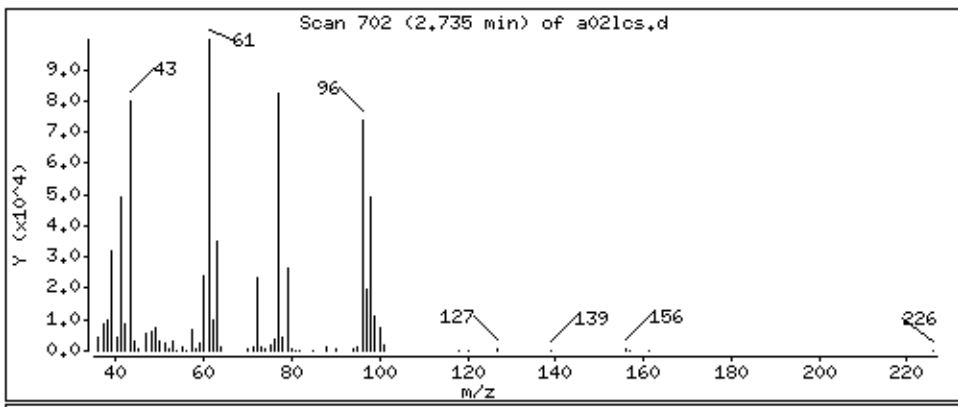
Operator: dae

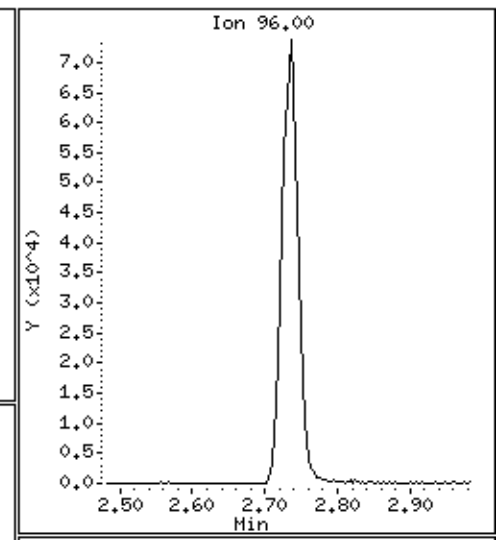
Column phase: DB-624

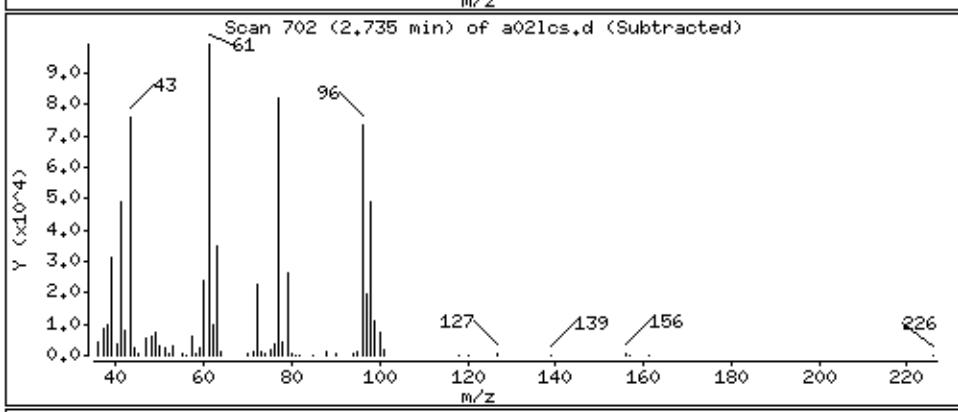
Column diameter: 0.18

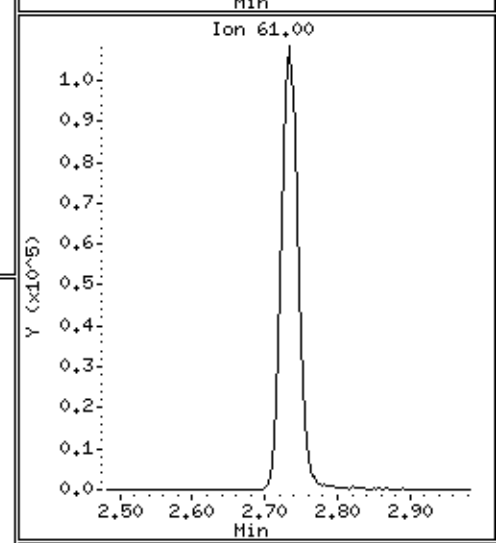
29 1,2-Dichloroethene (cis)

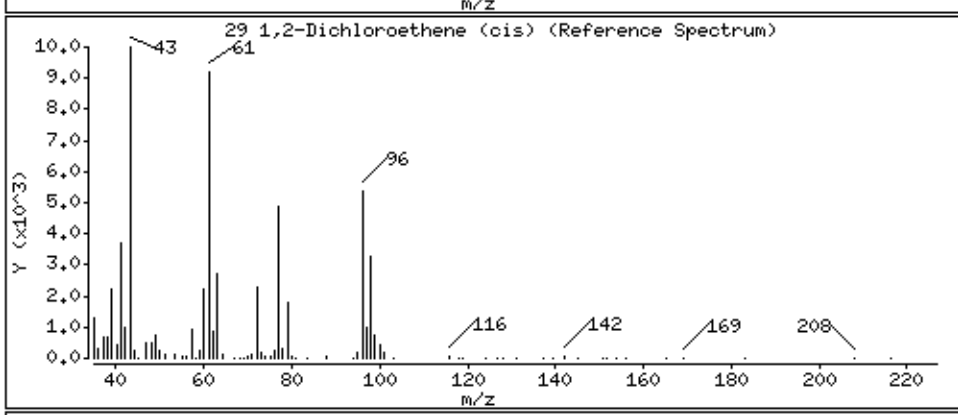
Concentration: 45.8 ppb

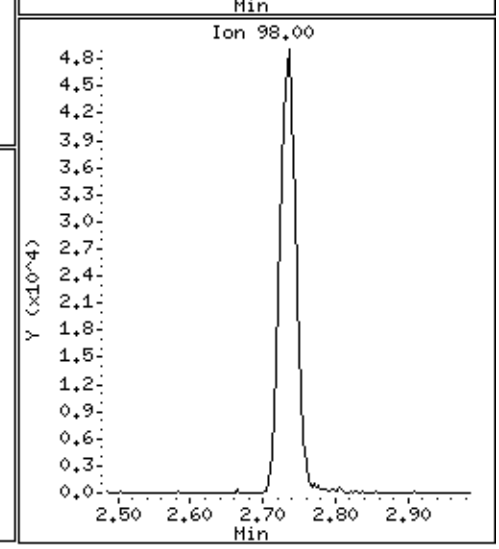


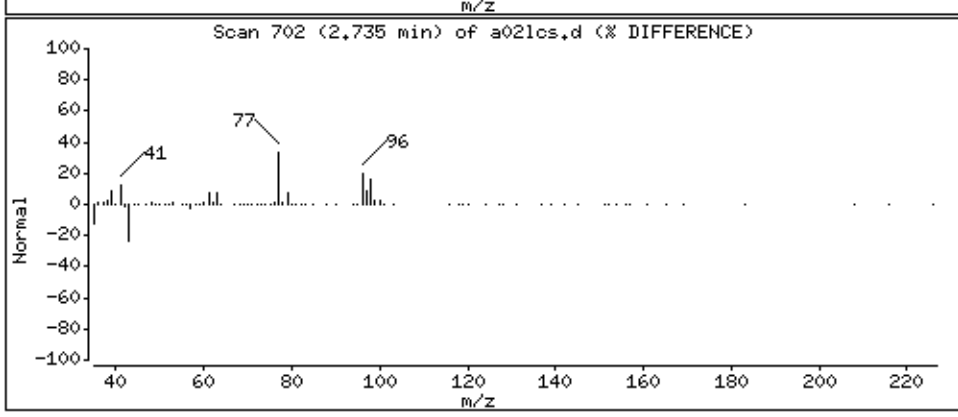












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

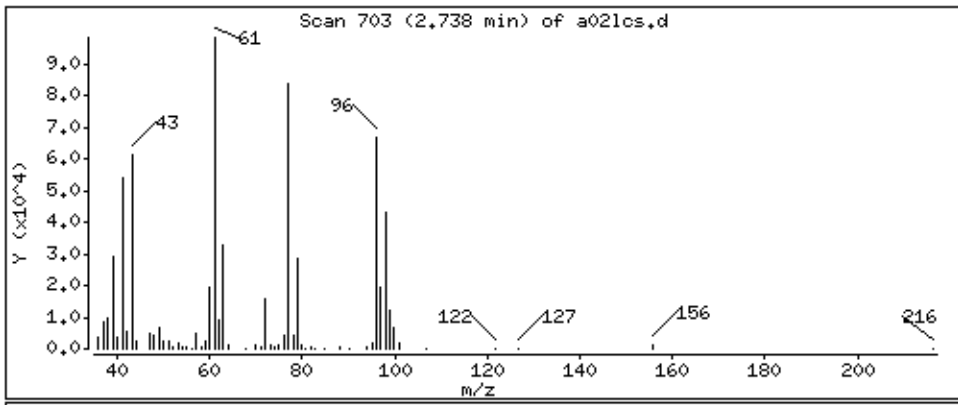
Operator: dae

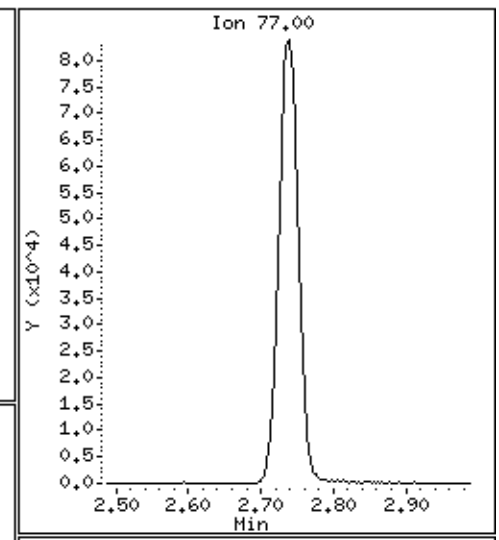
Column phase: DB-624

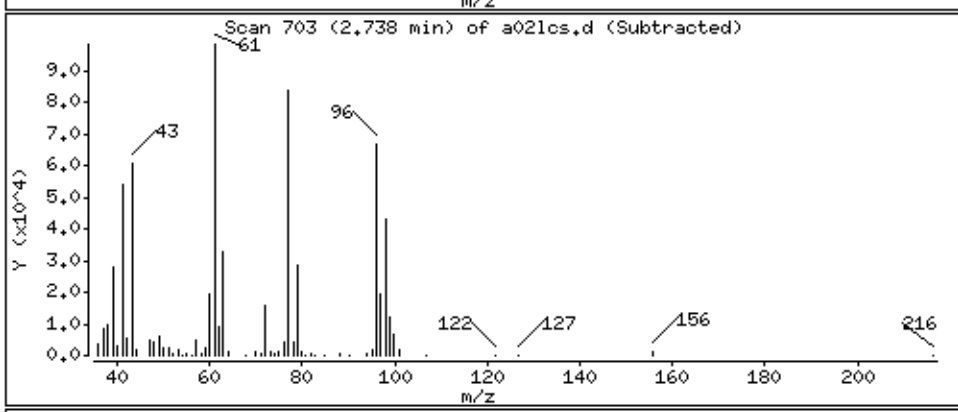
Column diameter: 0.18

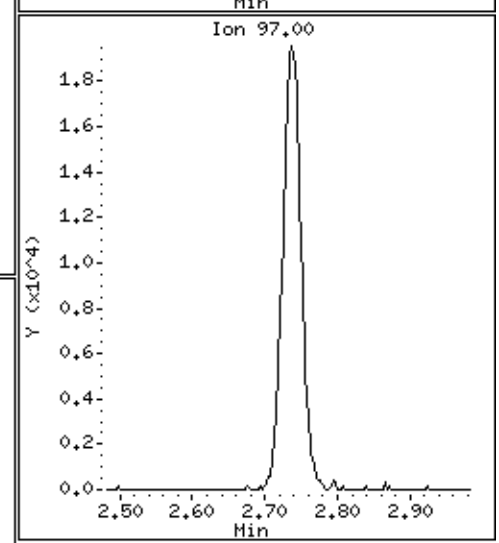
30 2,2-Dichloropropane

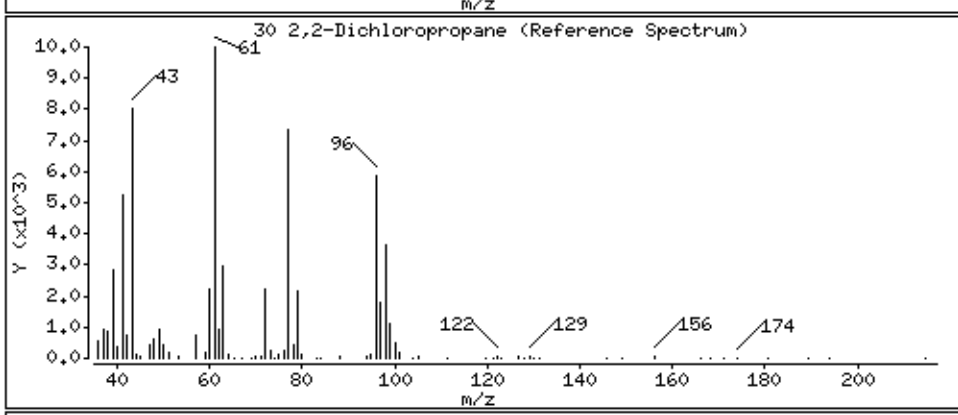
Concentration: 45.0 ppb

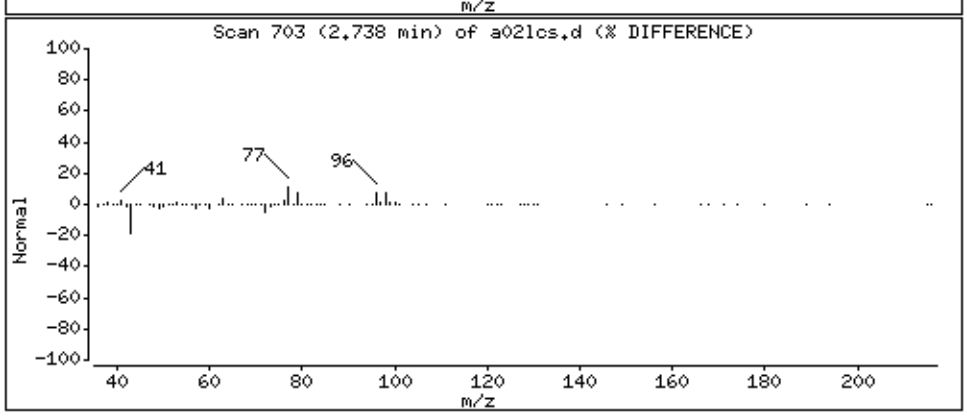












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

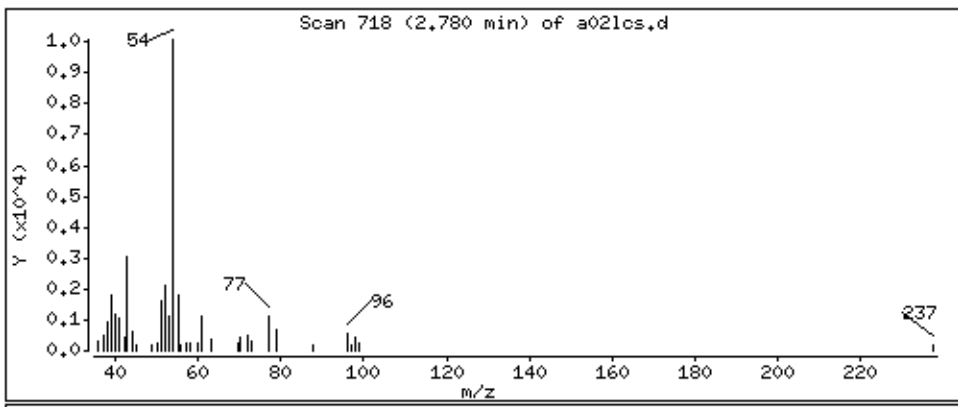
Operator: dae

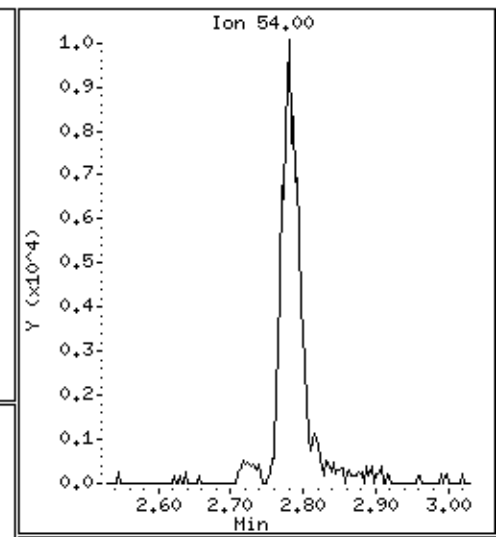
Column phase: DB-624

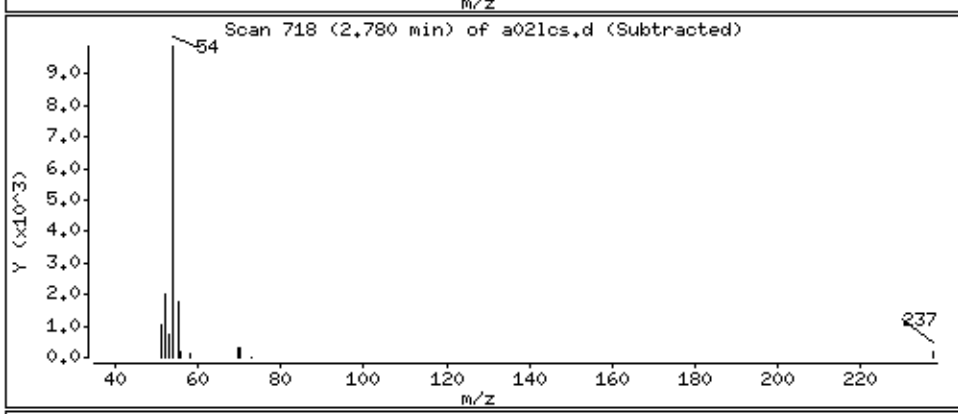
Column diameter: 0.18

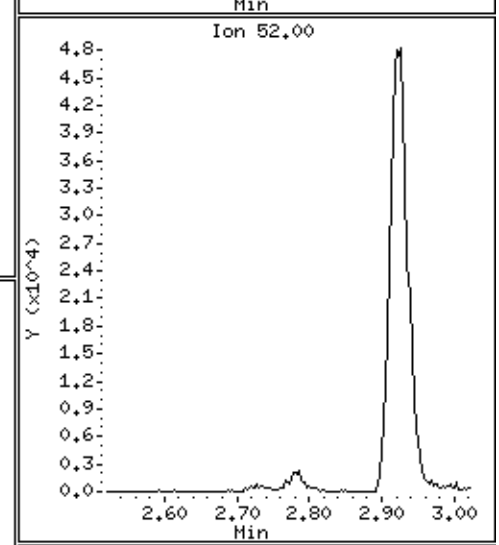
31 Propionitrile

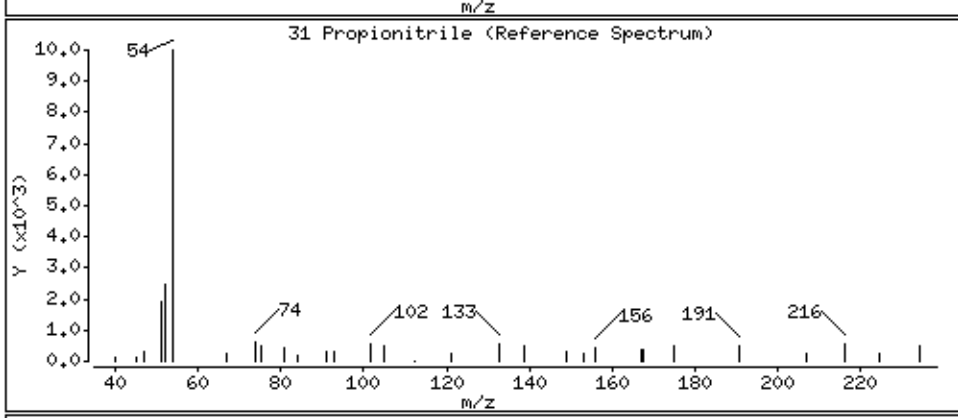
Concentration: 39.6 ppb

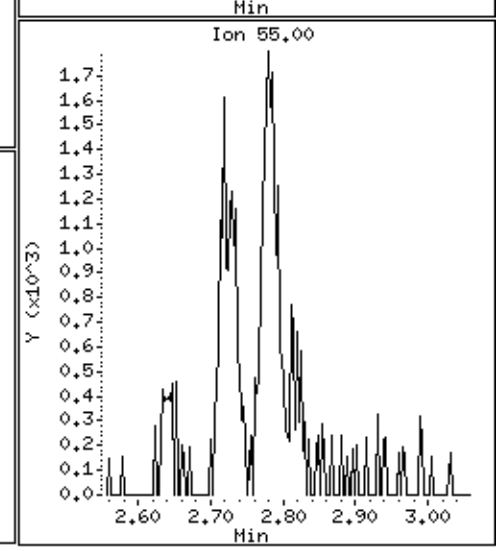


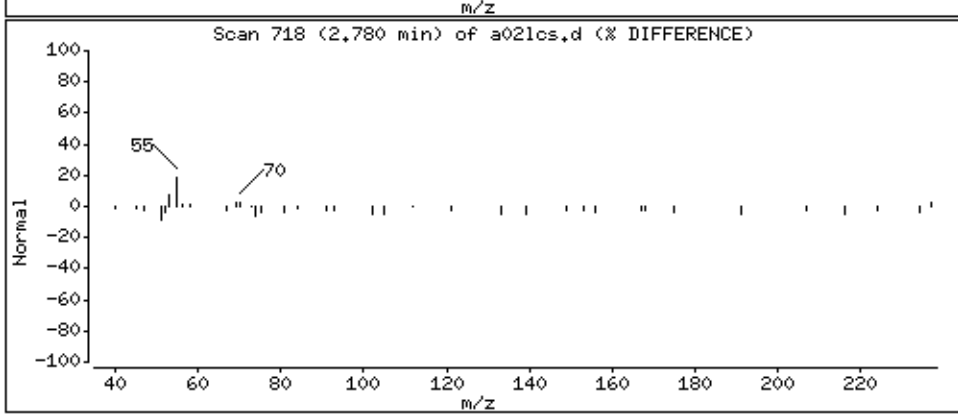












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

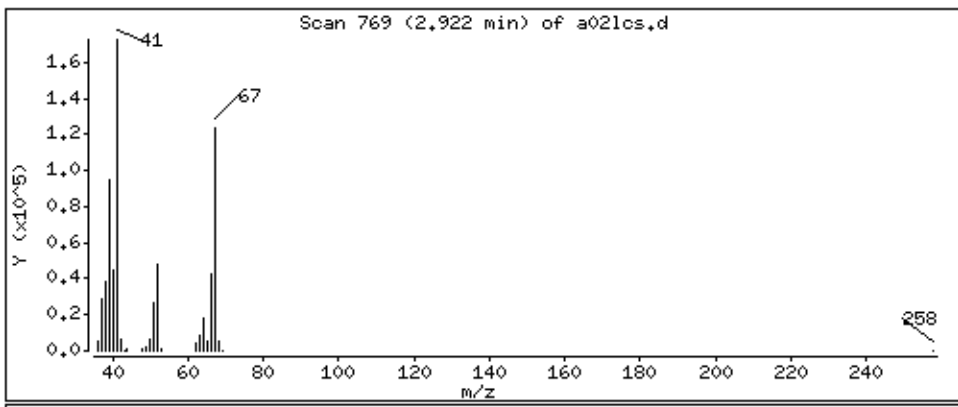
Operator: dae

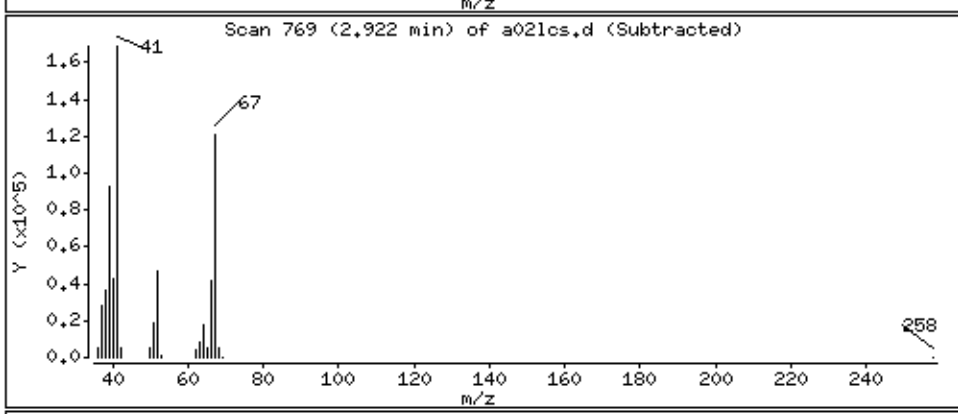
Column phase: DB-624

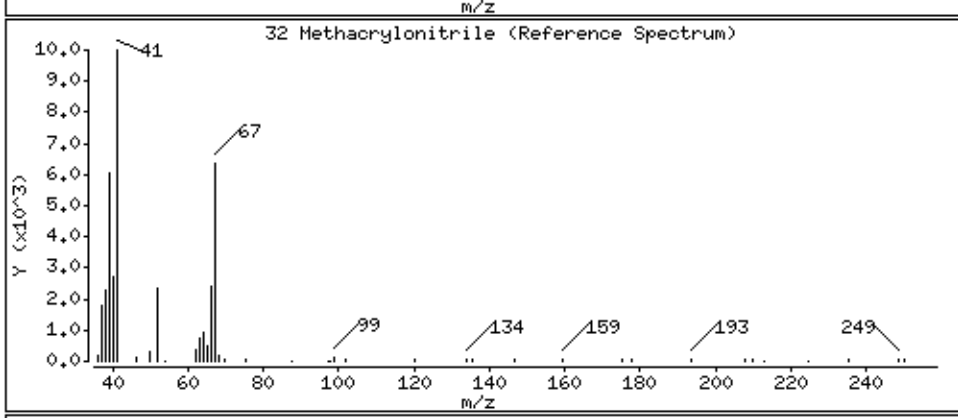
Column diameter: 0.18

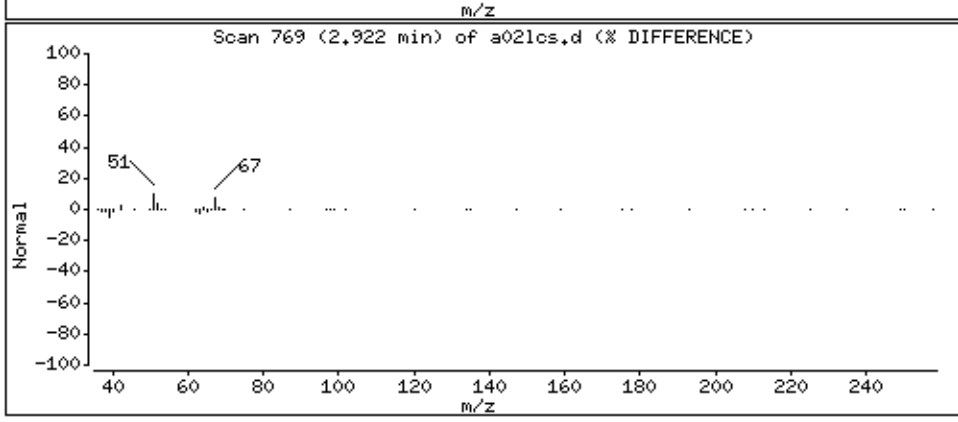
32 Methacrylonitrile

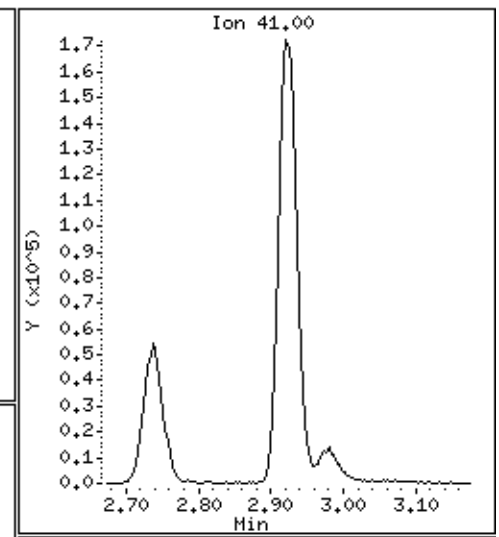
Concentration: 187 ppb

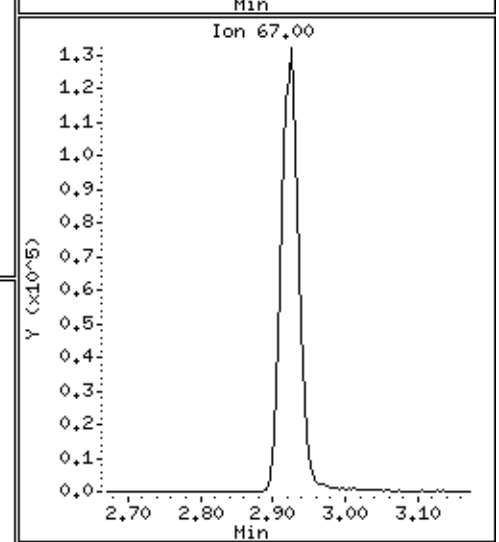


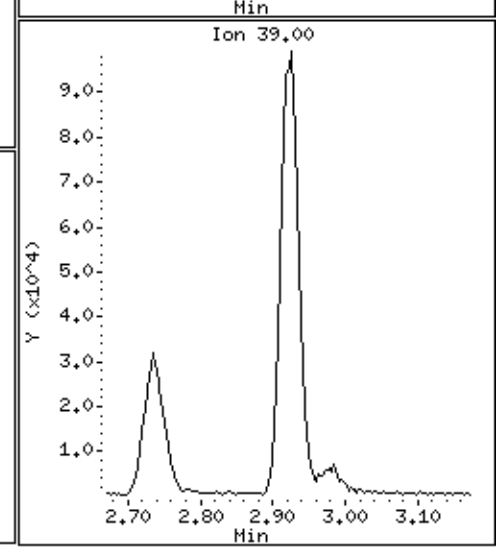












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

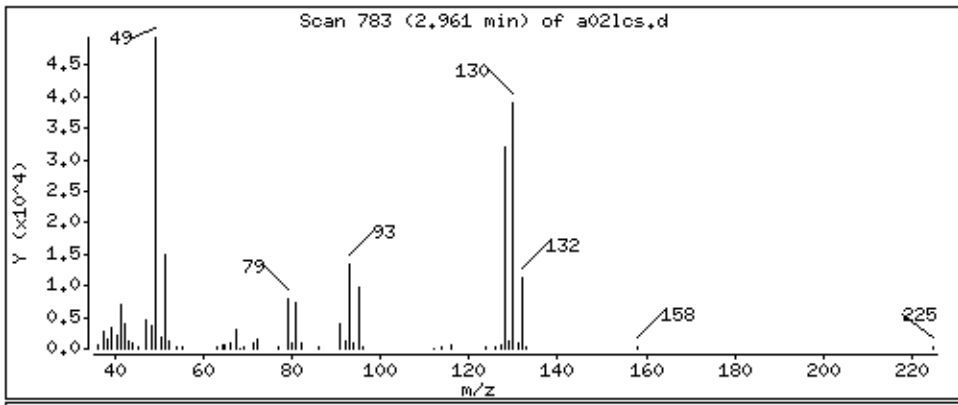
Operator: dae

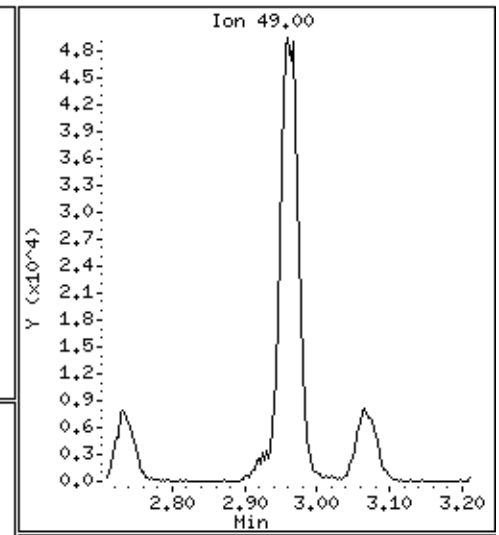
Column phase: DB-624

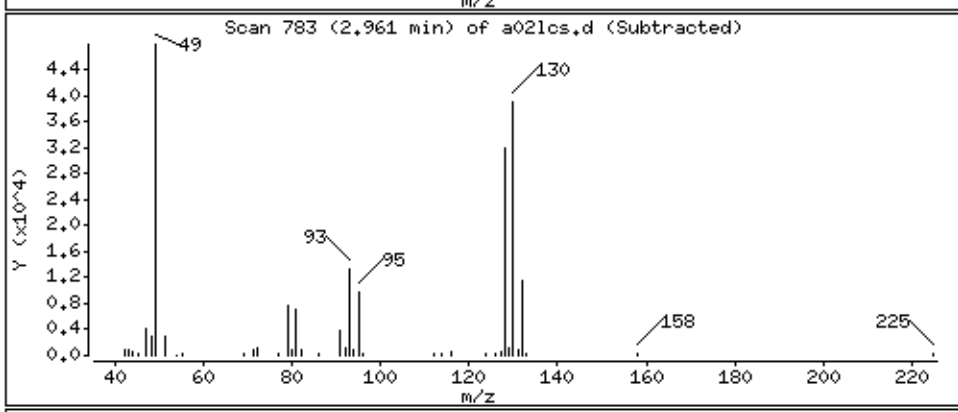
Column diameter: 0.18

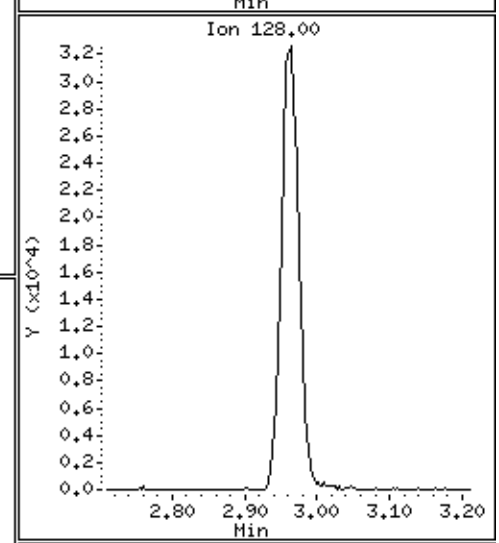
33 Bromochloromethane

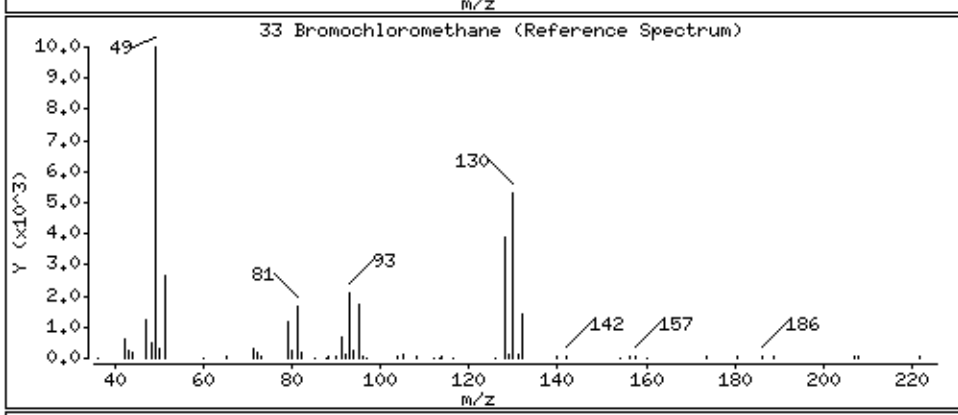
Concentration: 46.6 ppb

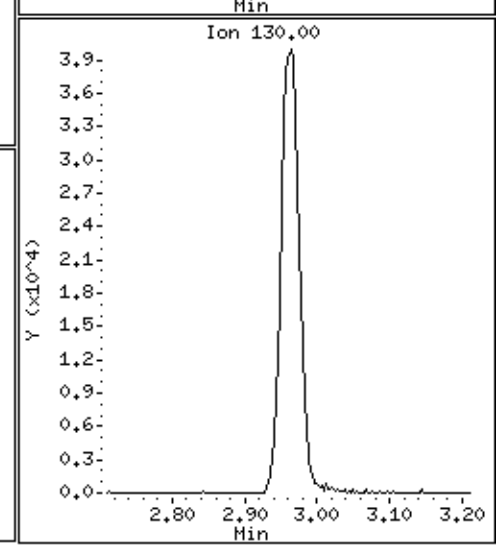


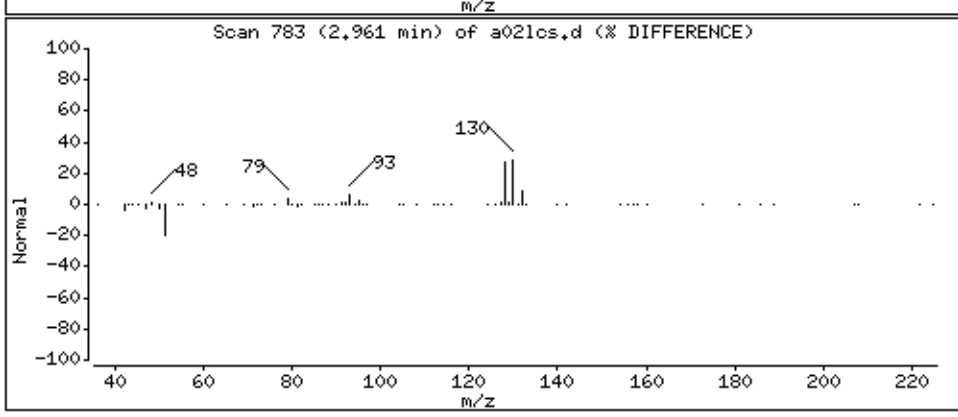












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

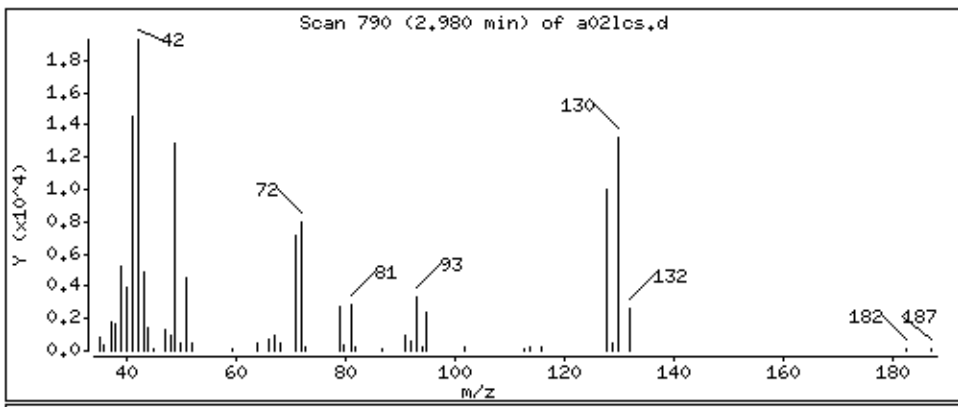
Operator: dae

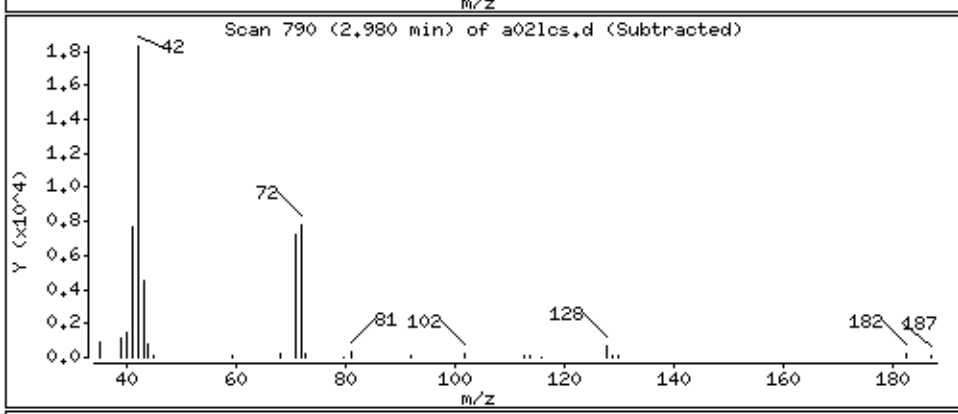
Column phase: DB-624

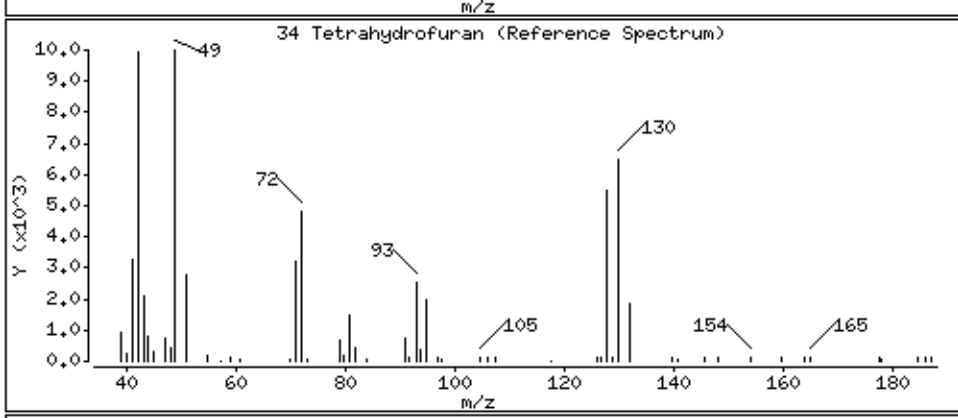
Column diameter: 0.18

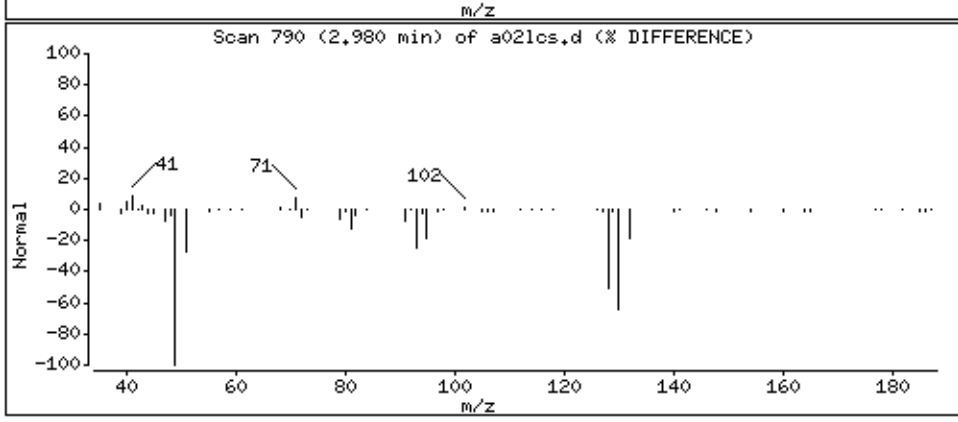
34 Tetrahydrofuran

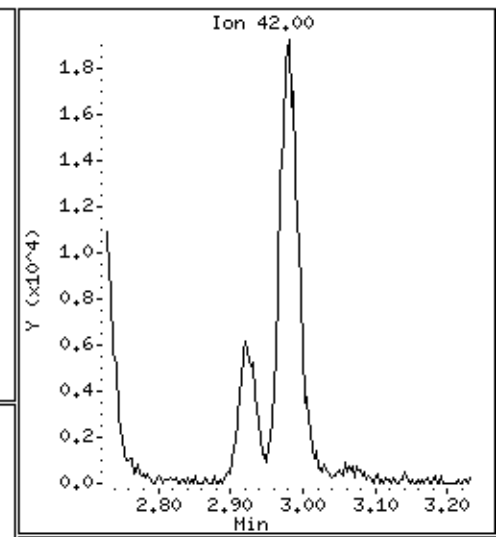
Concentration: 46.3 ppb

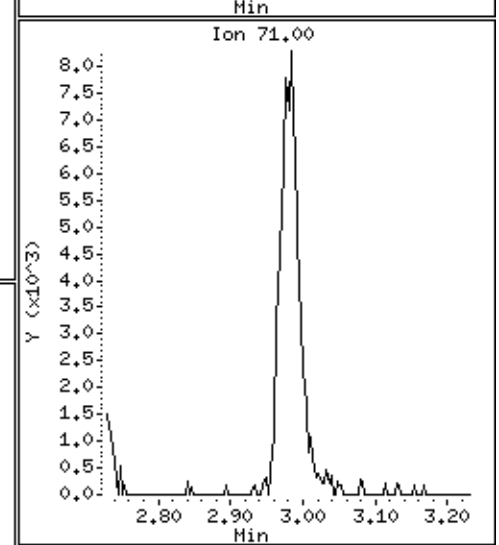


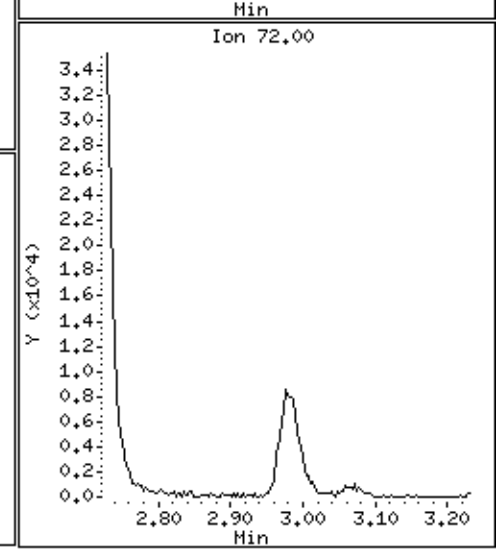












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

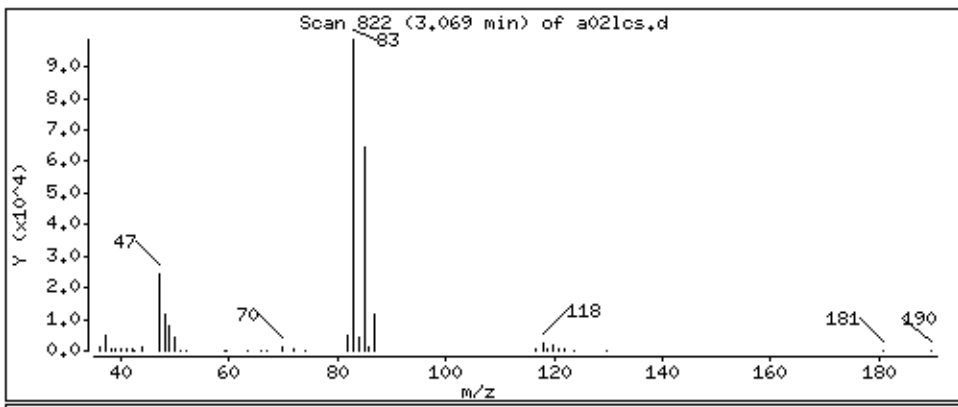
Operator: dae

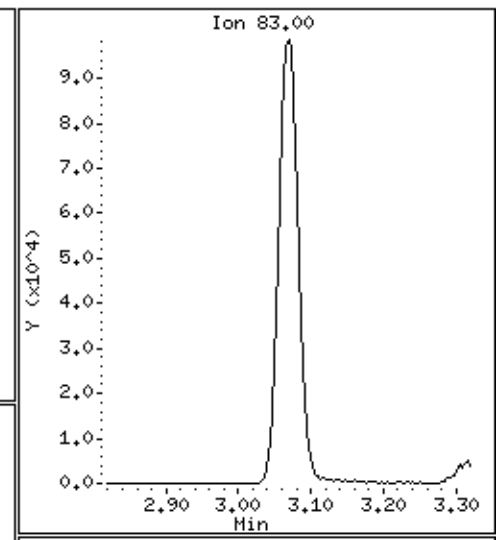
Column phase: DB-624

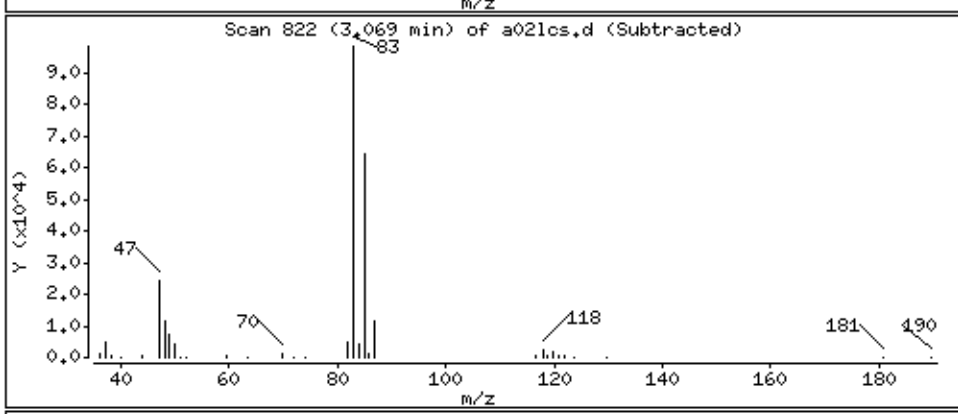
Column diameter: 0.18

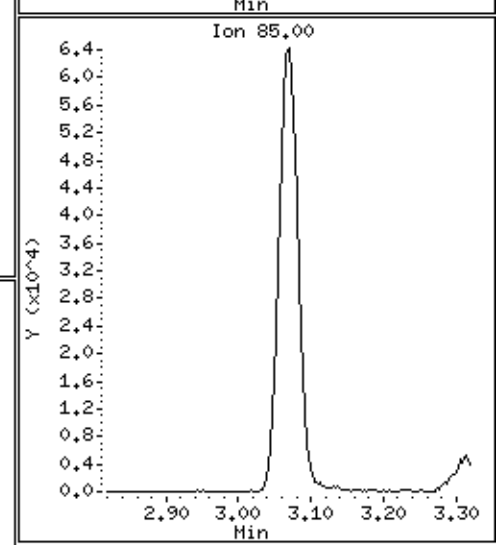
35 Chloroform

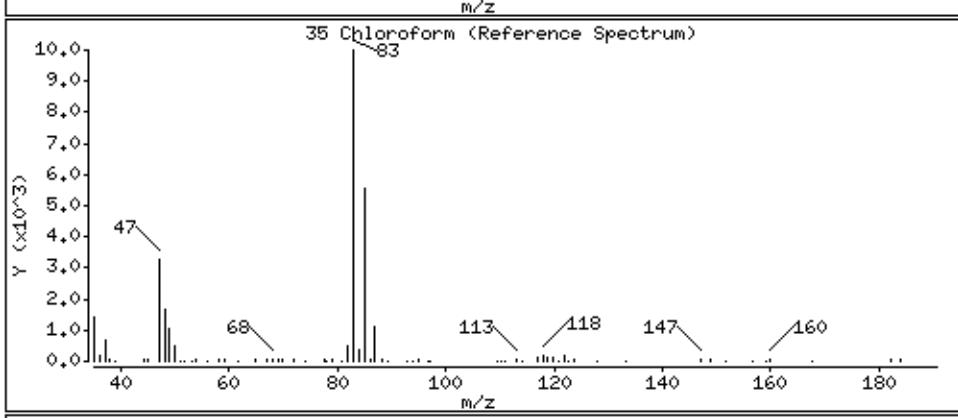
Concentration: 47.5 ppb

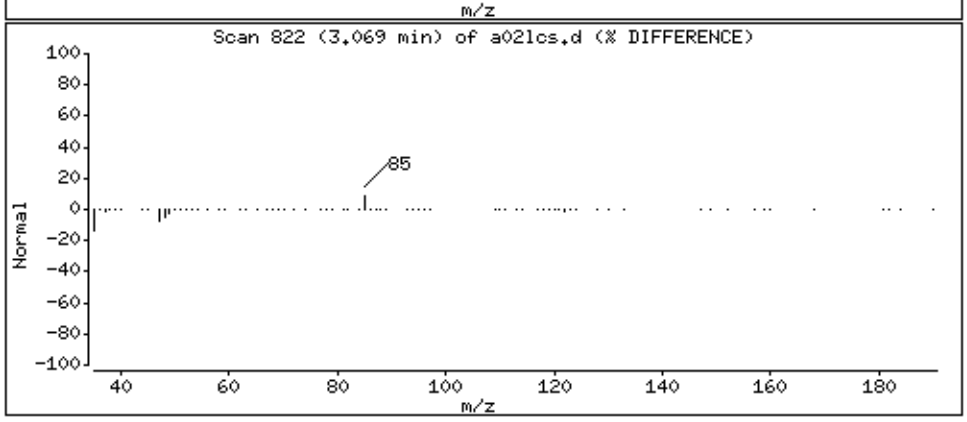












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

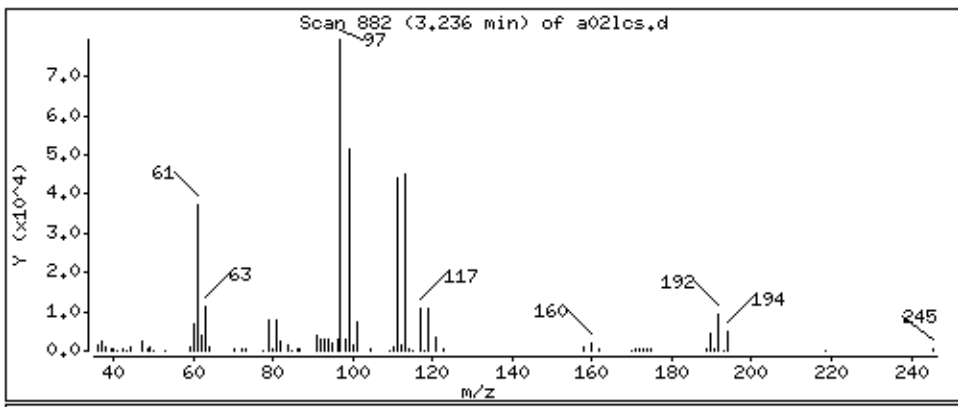
Operator: dae

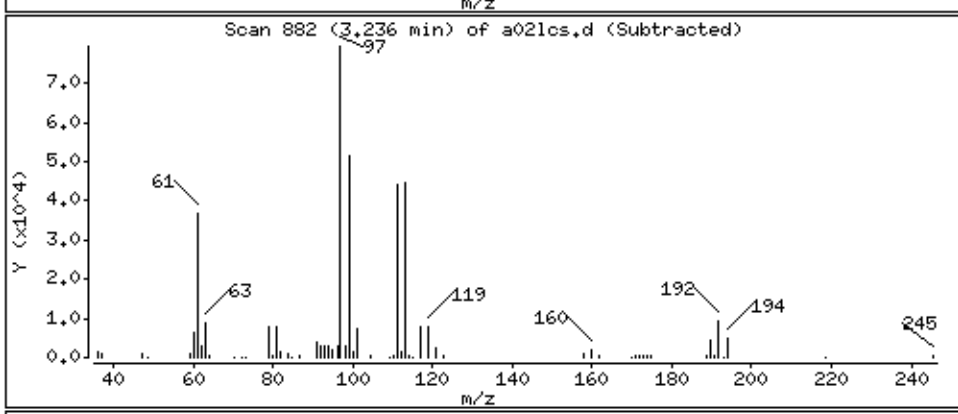
Column phase: DB-624

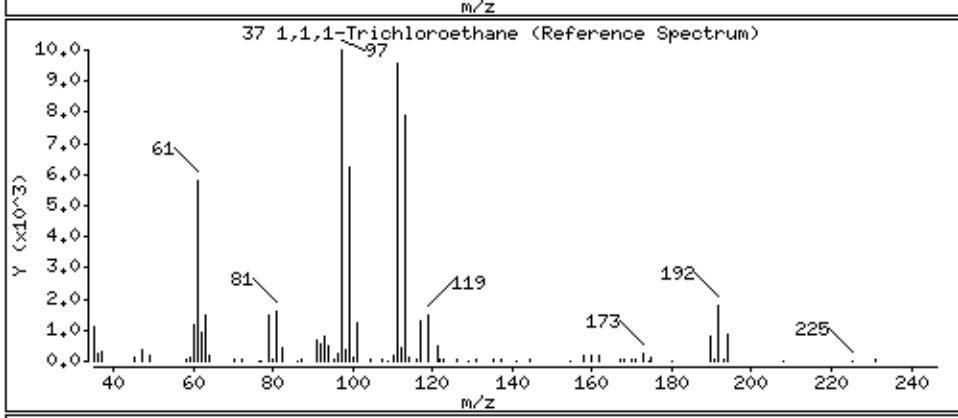
Column diameter: 0.18

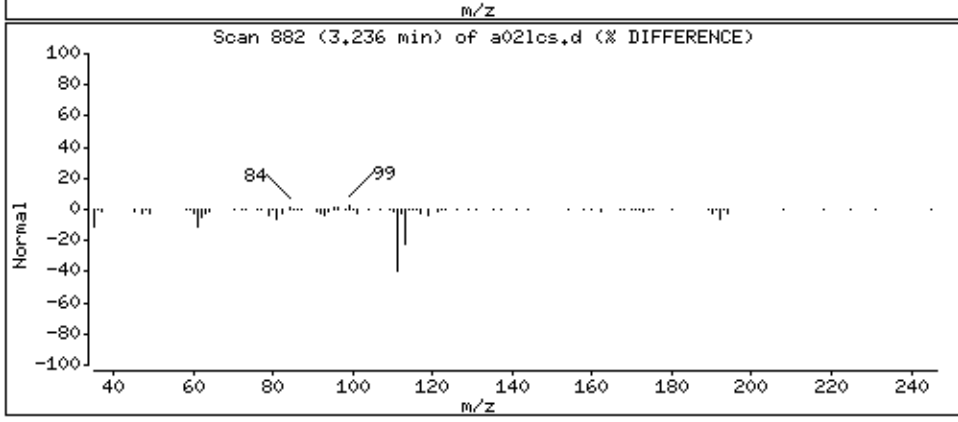
37 1,1,1-Trichloroethane

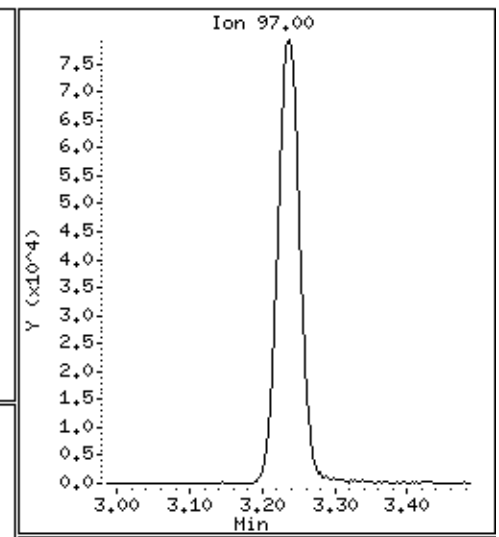
Concentration: 44.4 ppb

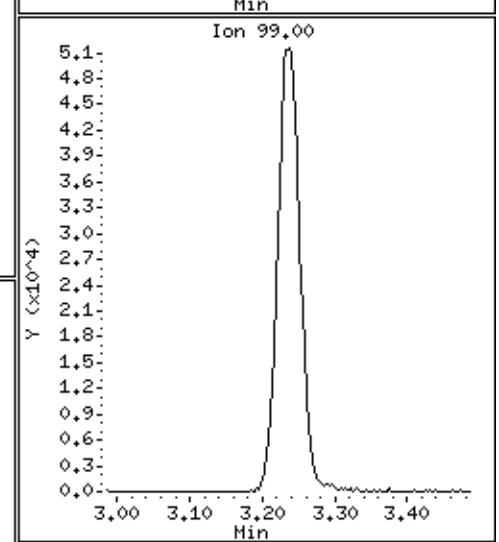


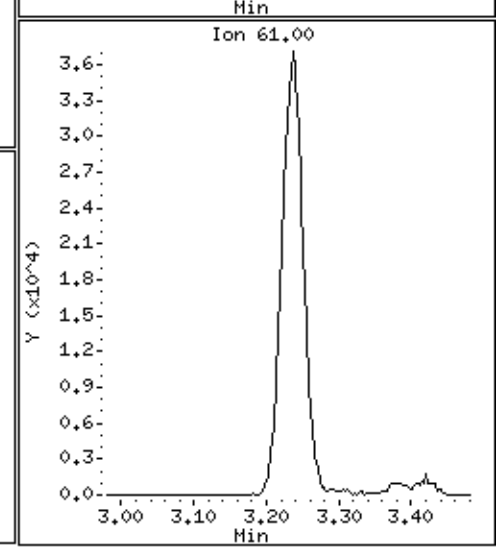












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

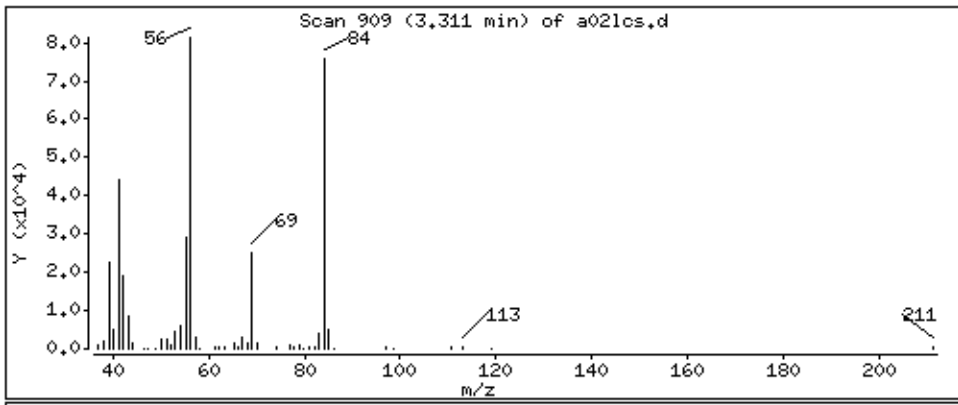
Operator: dae

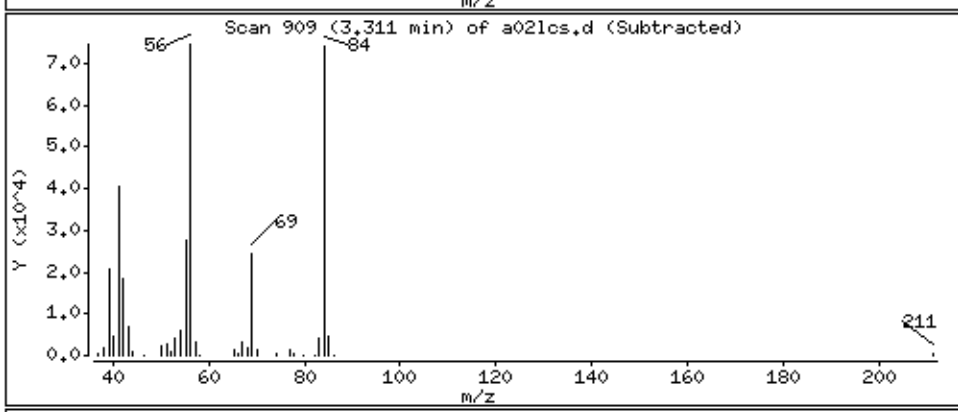
Column phase: DB-624

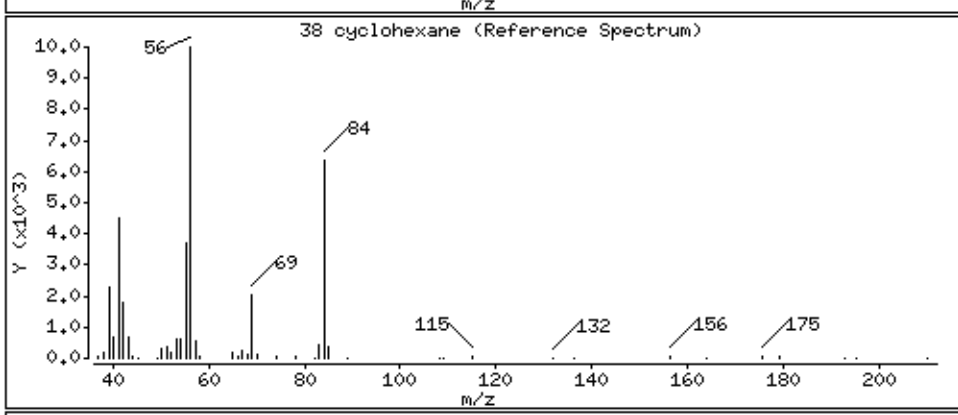
Column diameter: 0.18

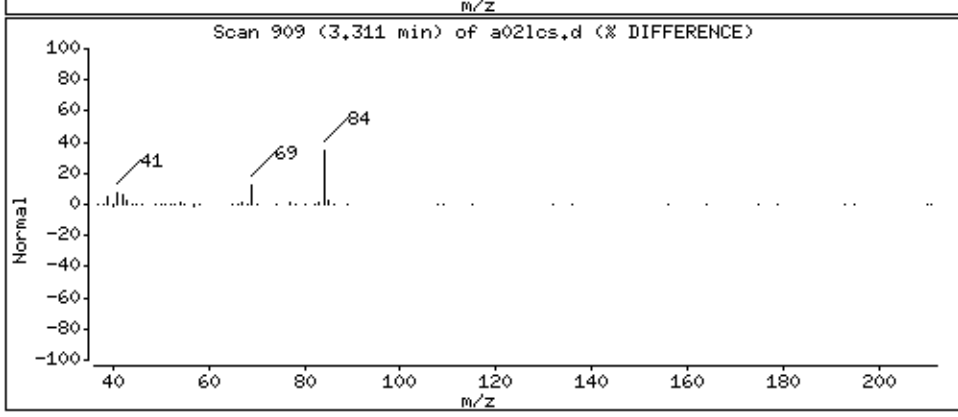
38 cyclohexane

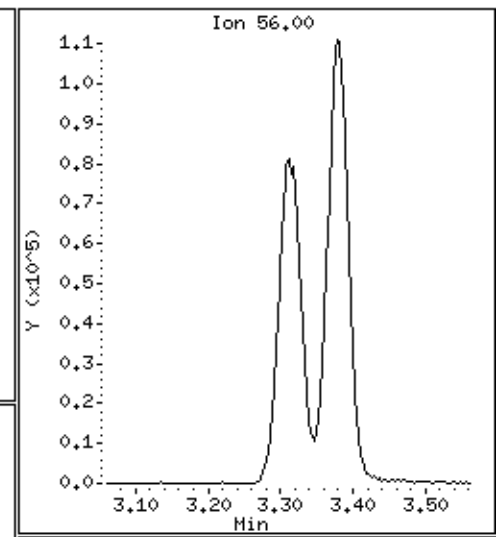
Concentration: 44.4 ppb

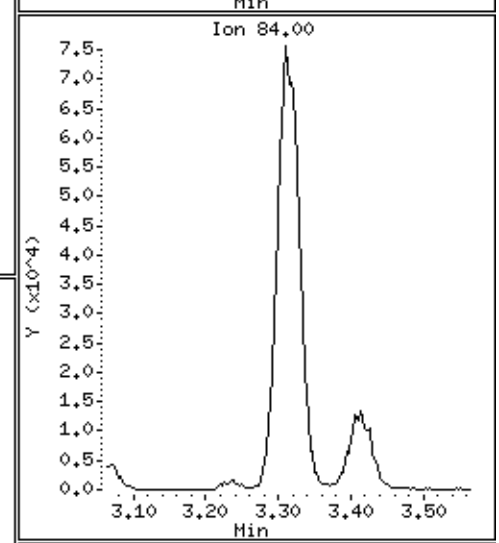


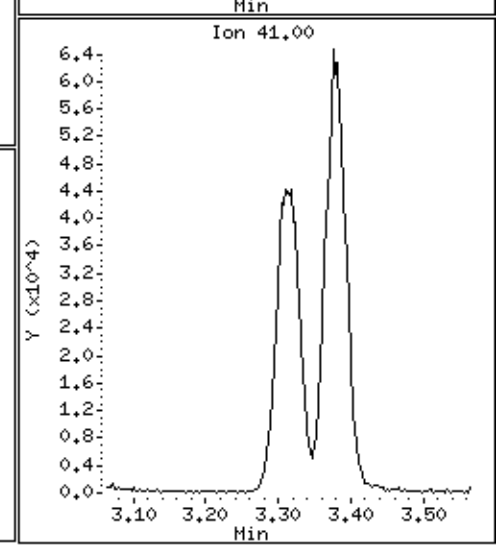












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

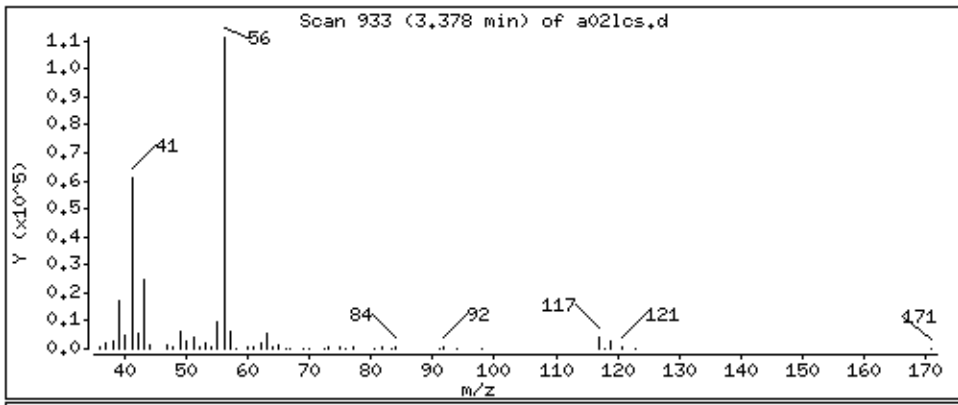
Operator: dae

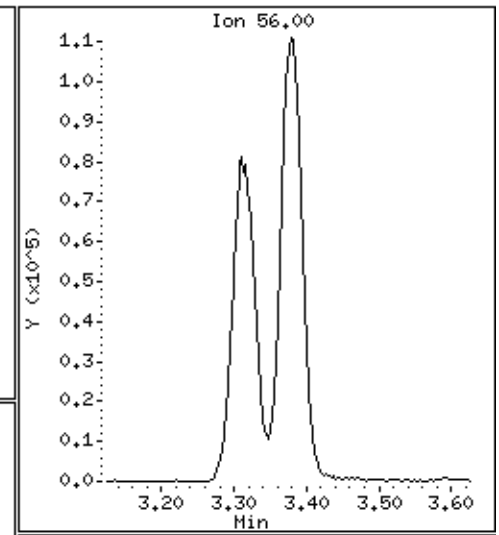
Column phase: DB-624

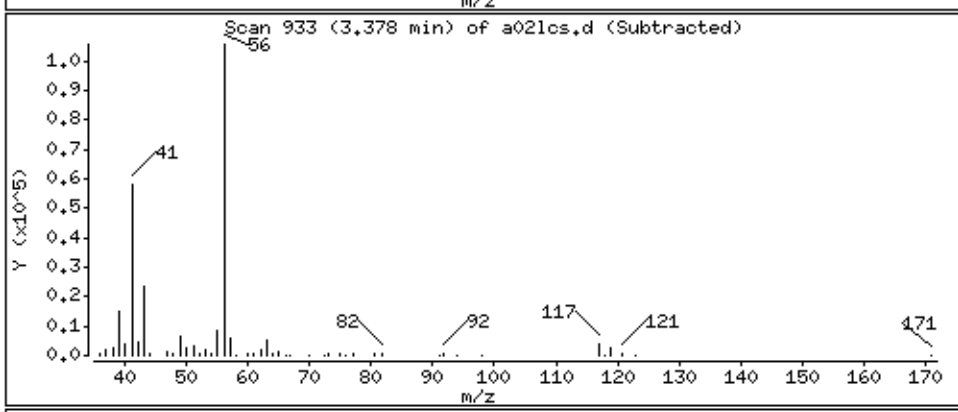
Column diameter: 0.18

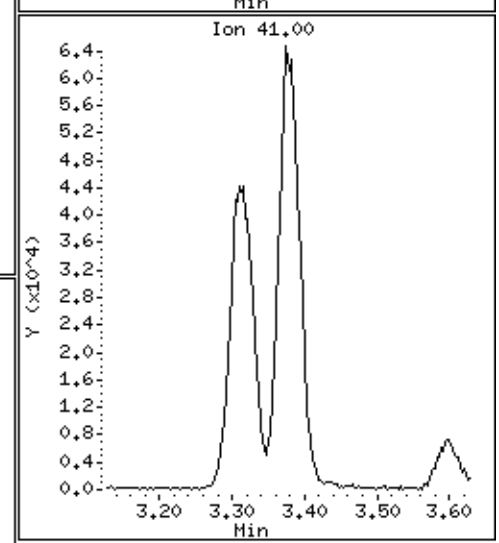
150 n-butyl chloride

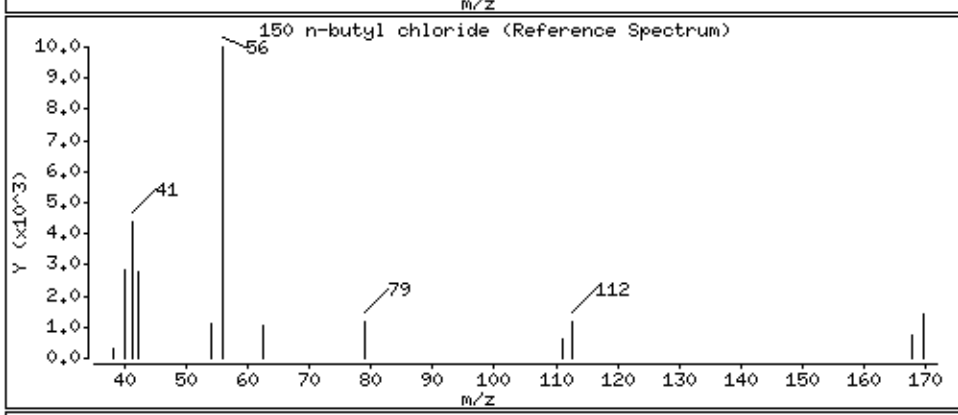
Concentration: 46.4 ppb

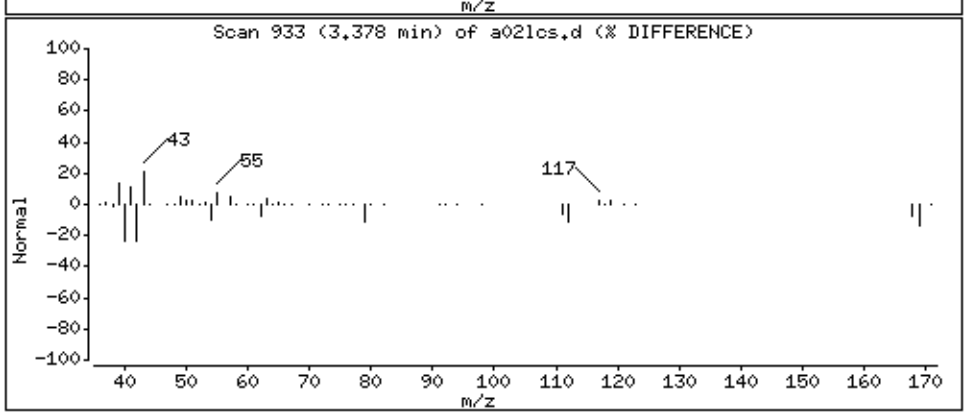












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

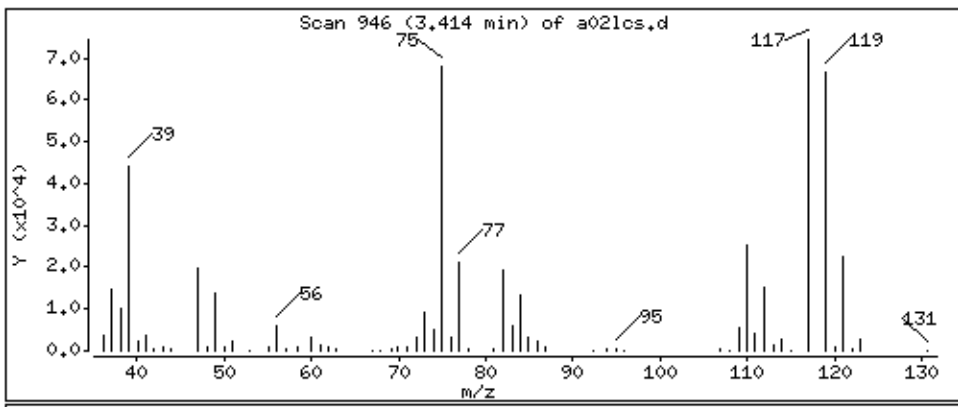
Operator: dae

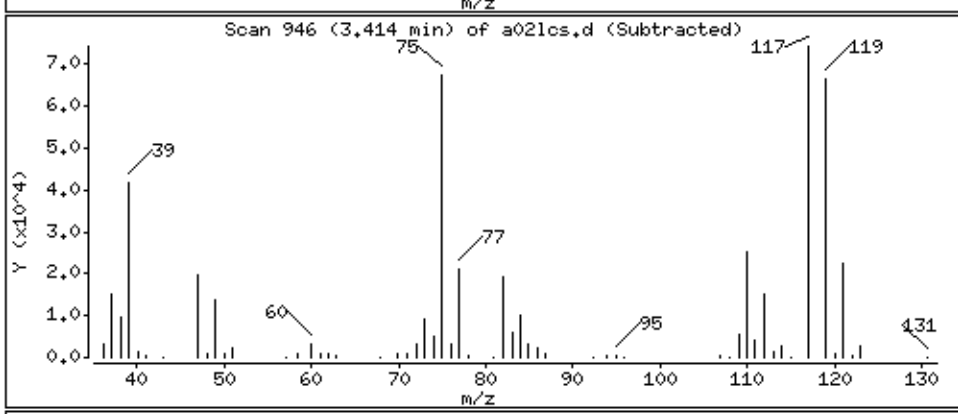
Column phase: DB-624

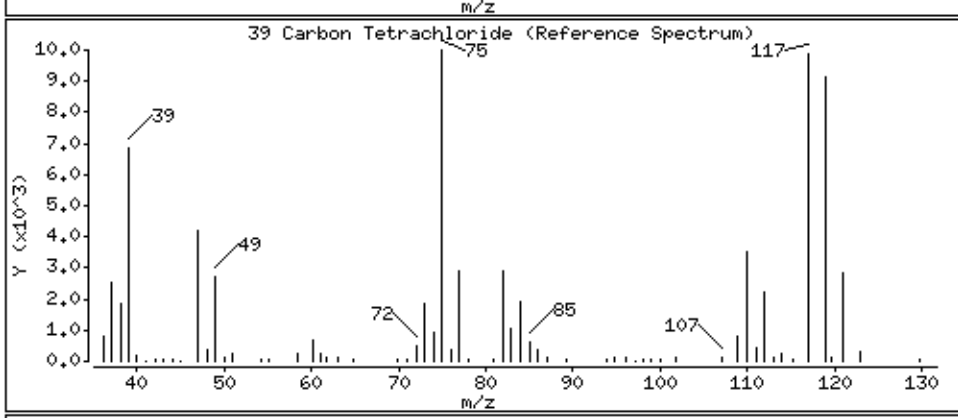
Column diameter: 0.18

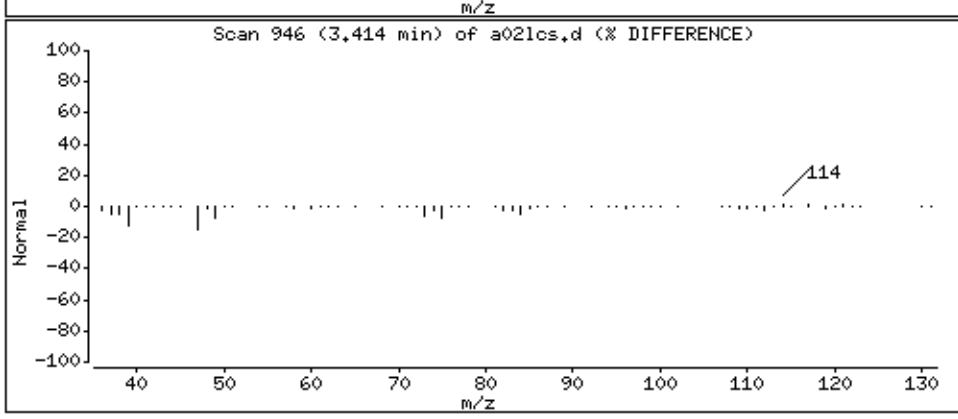
39 Carbon Tetrachloride

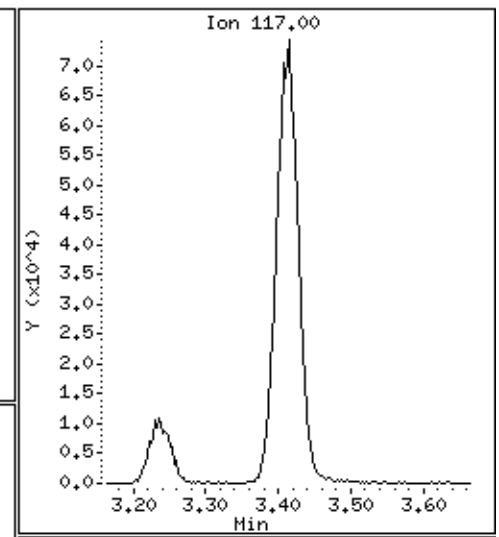
Concentration: 46.5 ppb

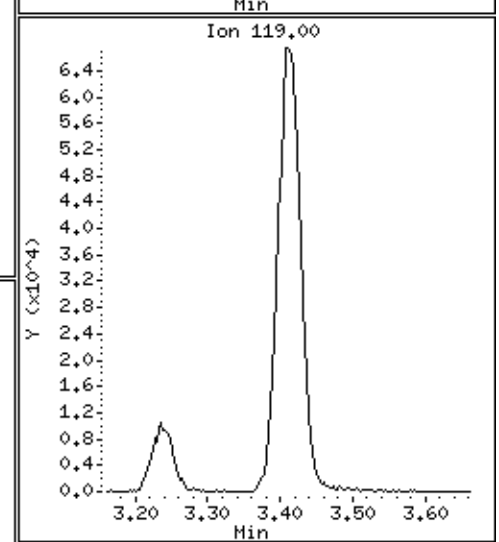


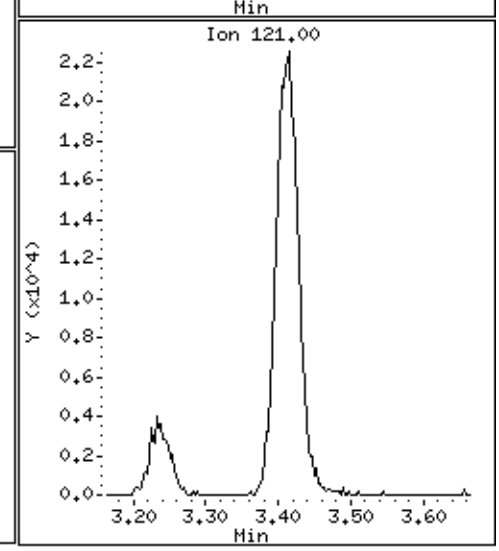












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

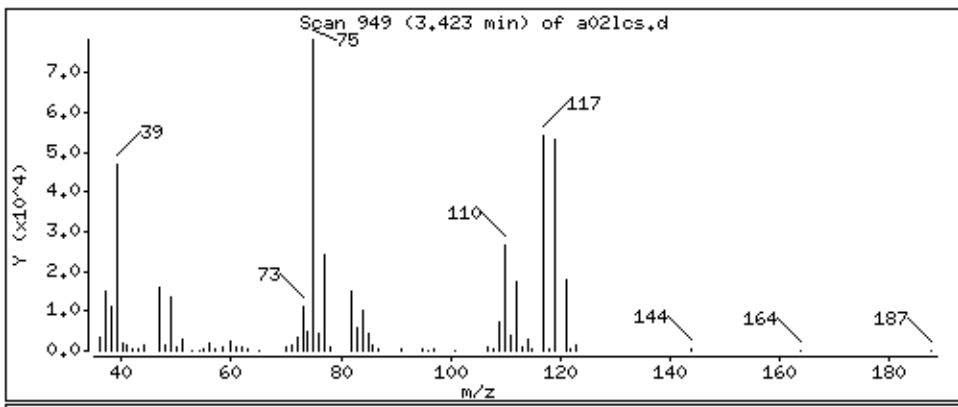
Operator: dae

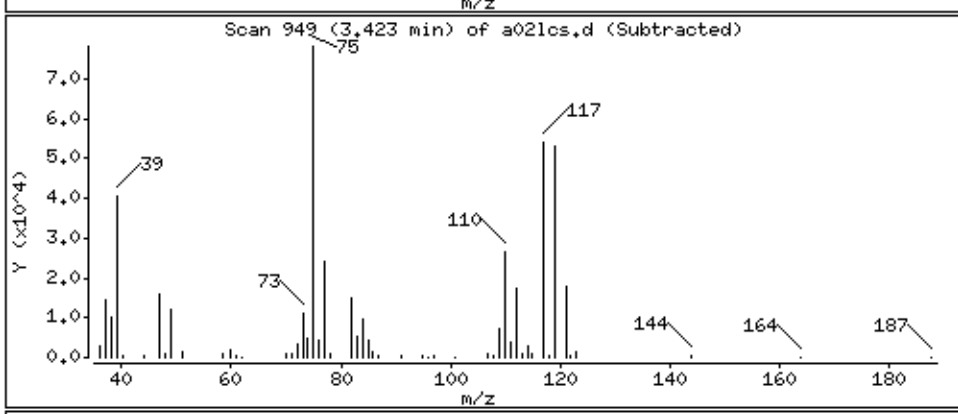
Column phase: DB-624

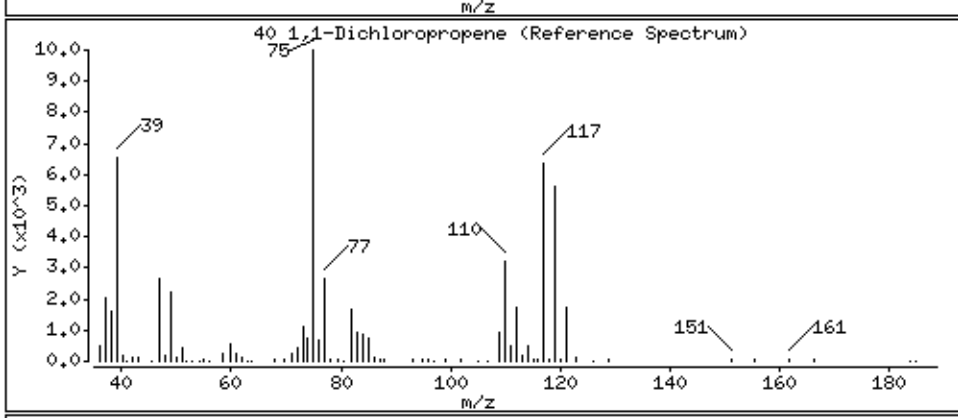
Column diameter: 0.18

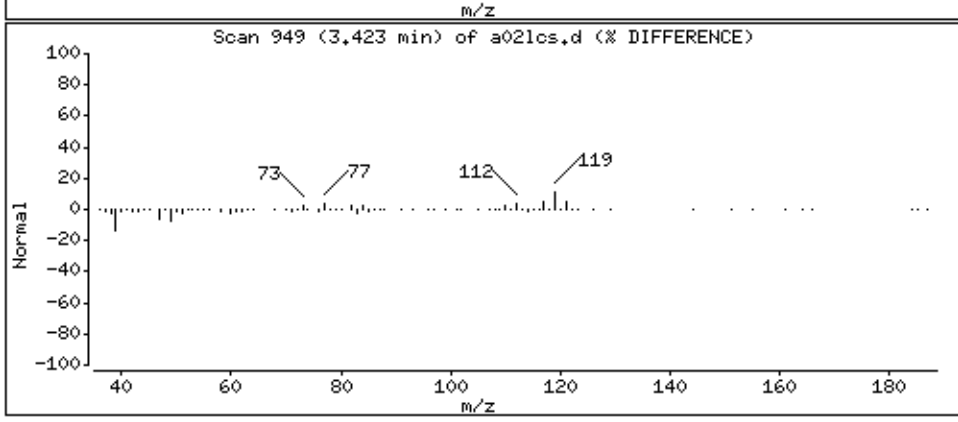
40 1,1-Dichloropropene

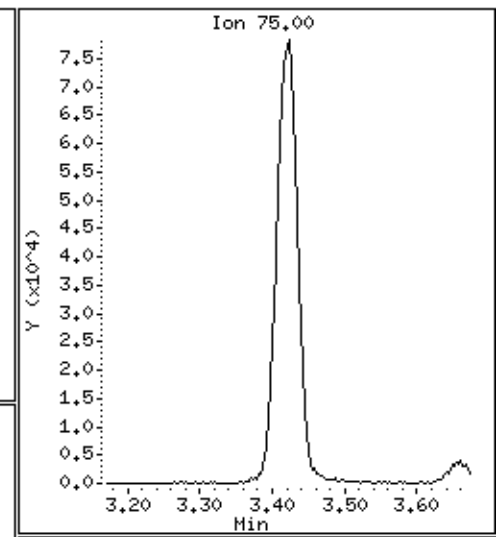
Concentration: 48.7 ppb

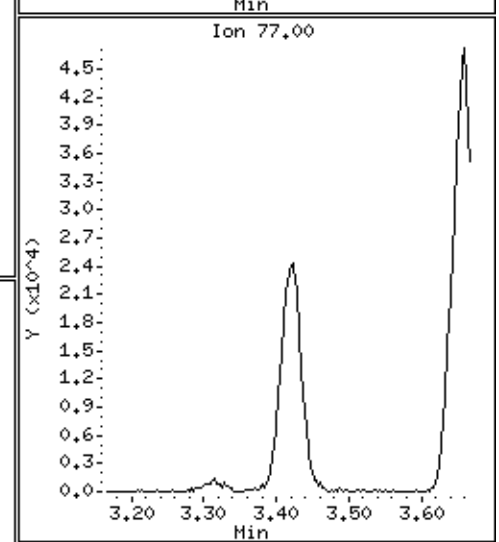


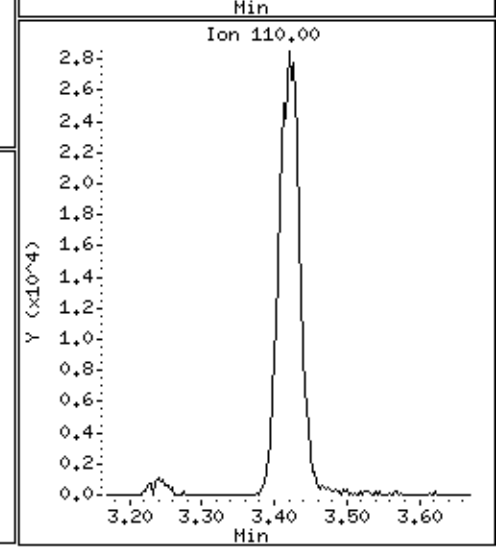












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

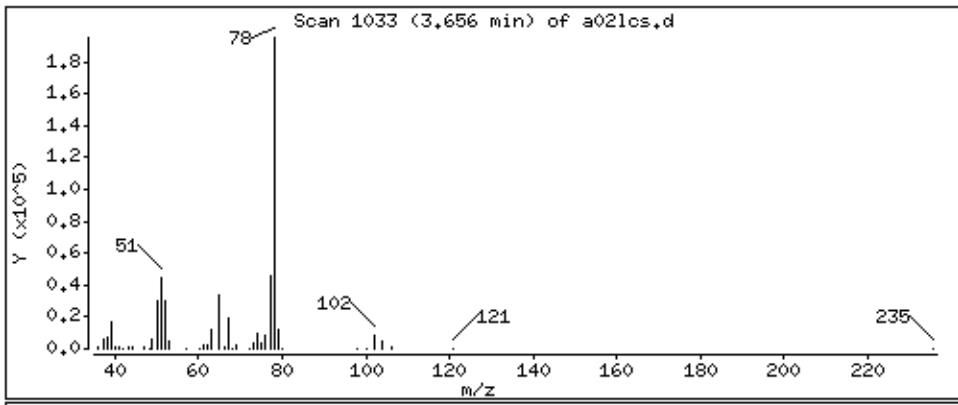
Operator: dae

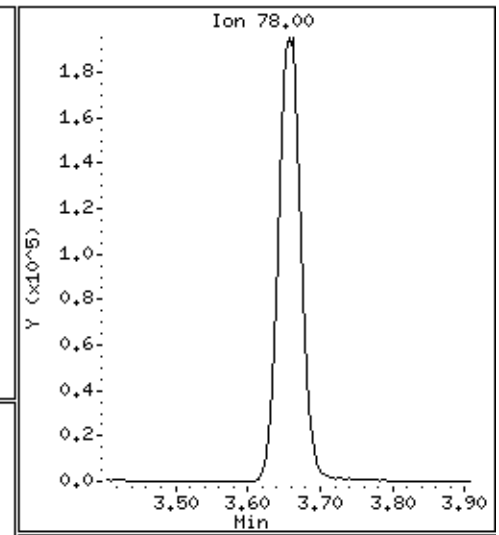
Column phase: DB-624

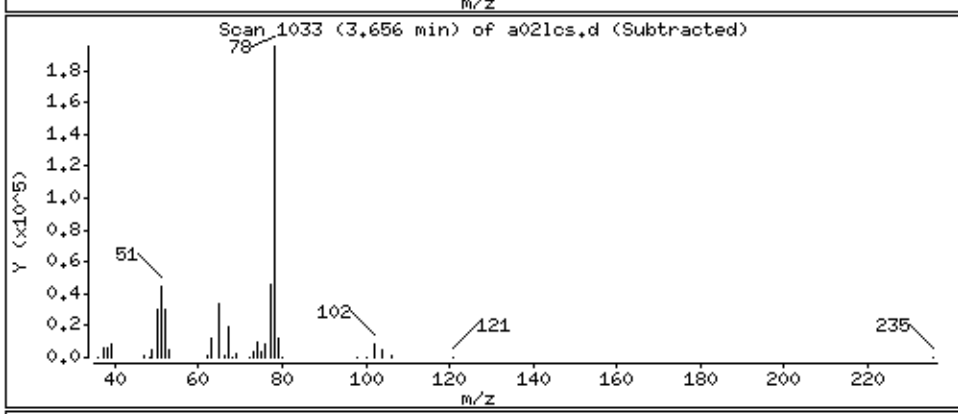
Column diameter: 0.18

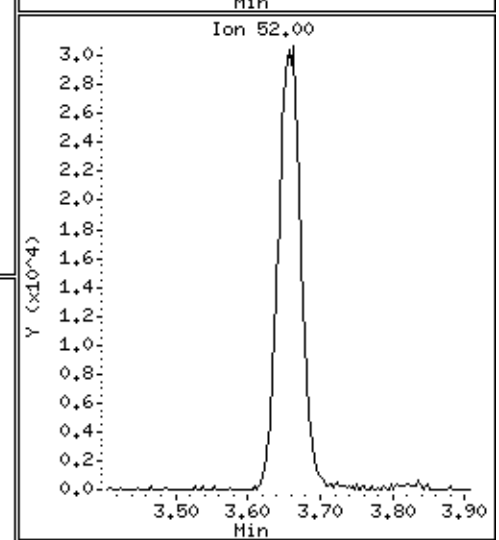
41 Benzene

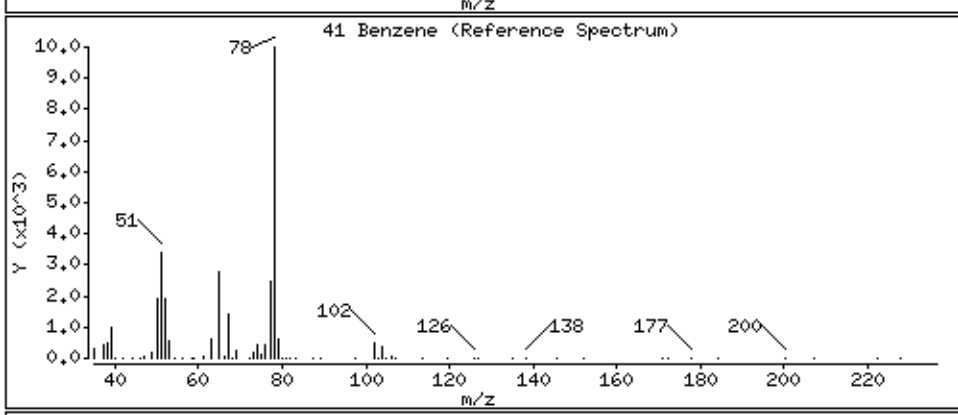
Concentration: 45.9 ppb

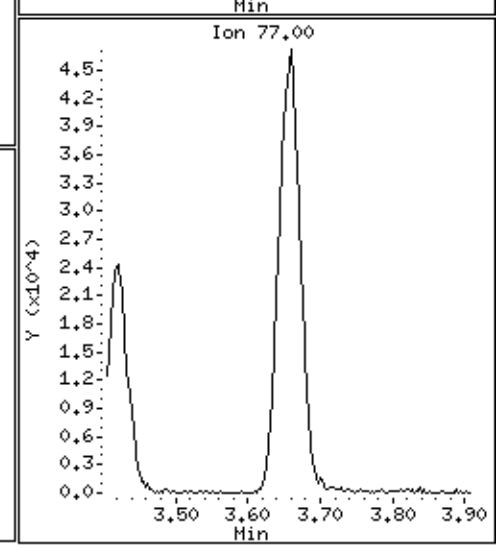


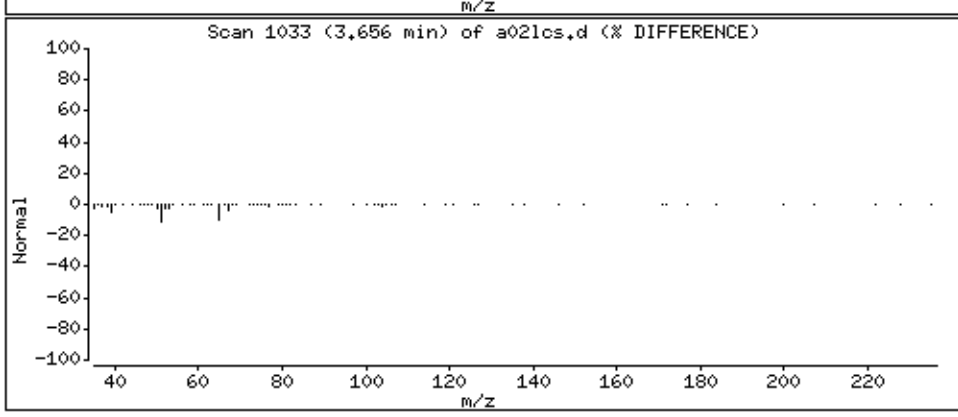












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

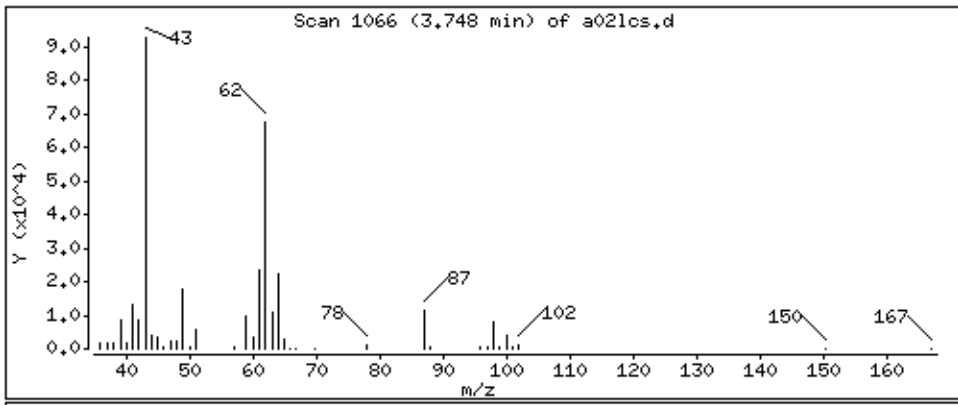
Operator: dae

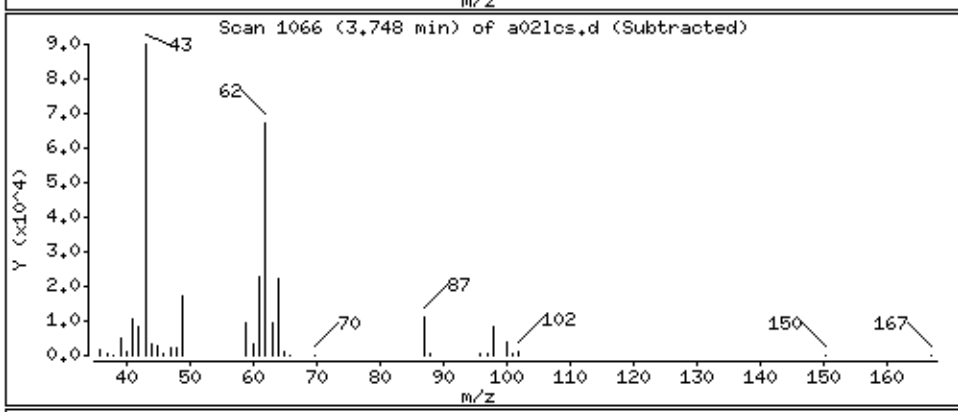
Column phase: DB-624

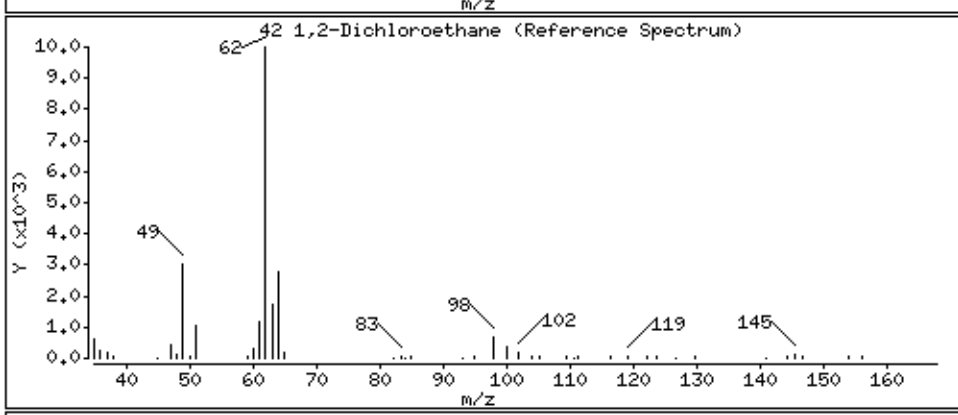
Column diameter: 0.18

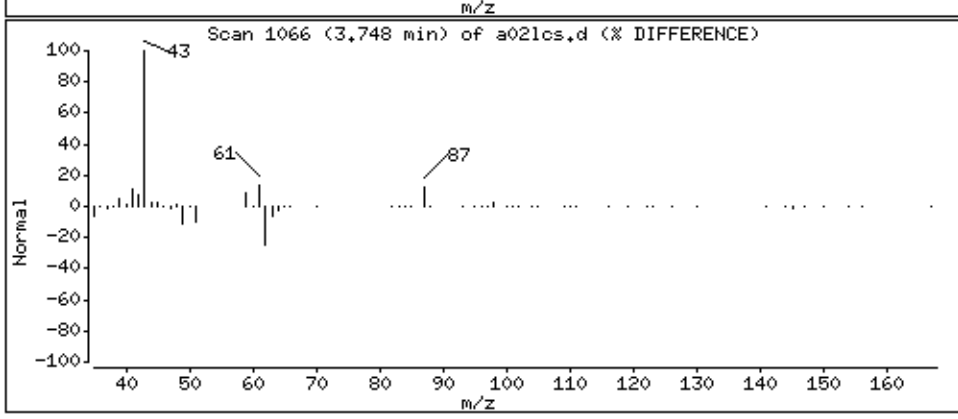
42 1,2-Dichloroethane

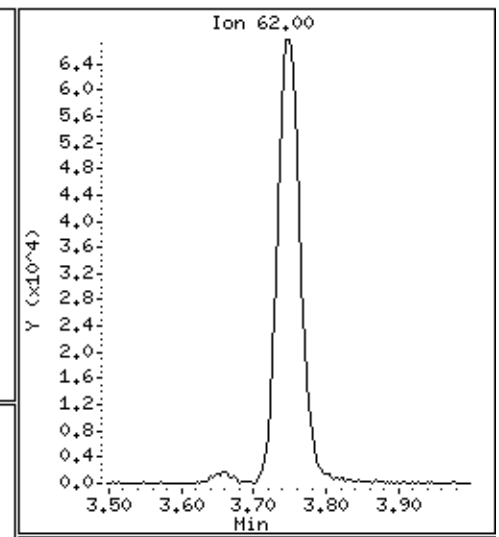
Concentration: 47.7 ppb

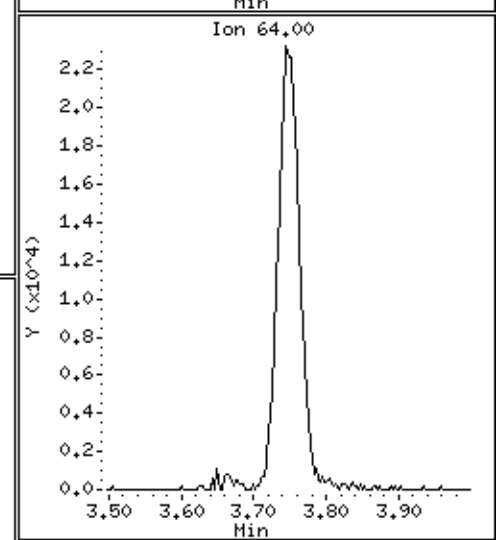


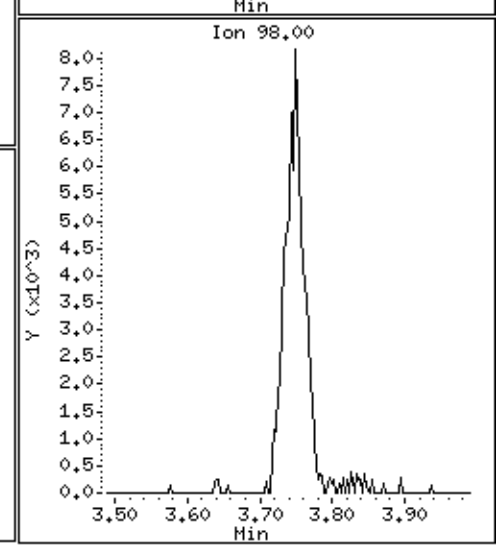












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

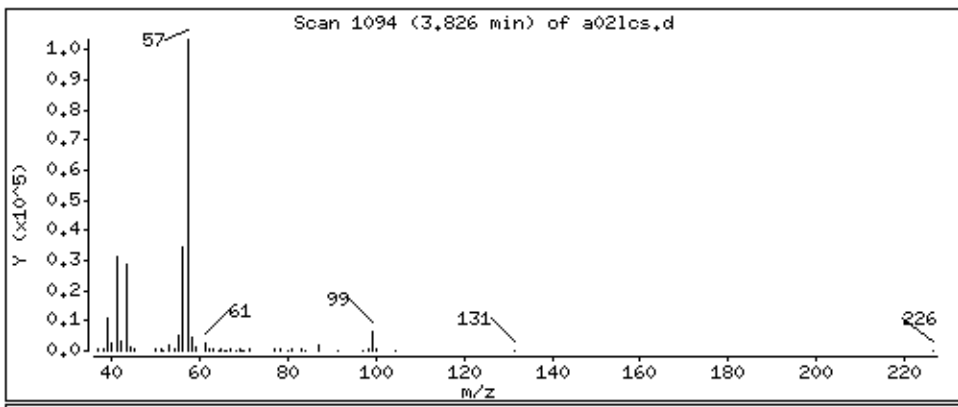
Operator: dae

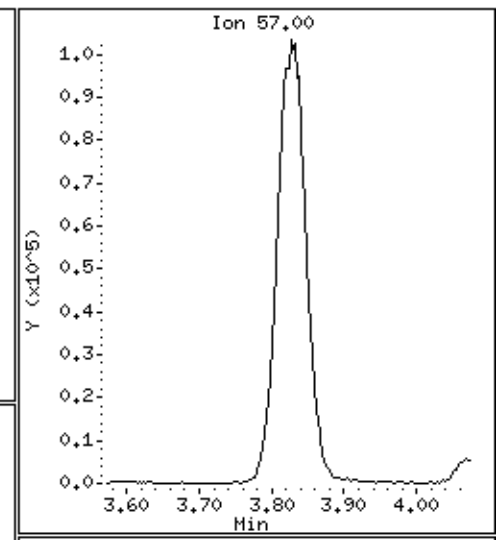
Column phase: DB-624

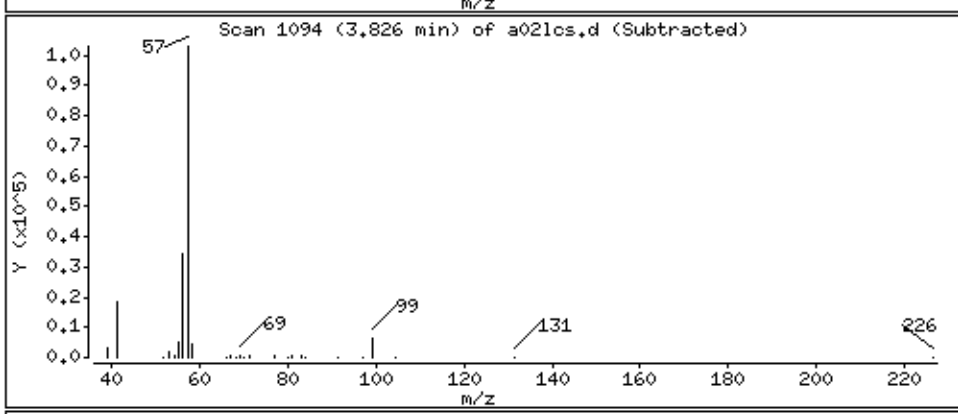
Column diameter: 0.18

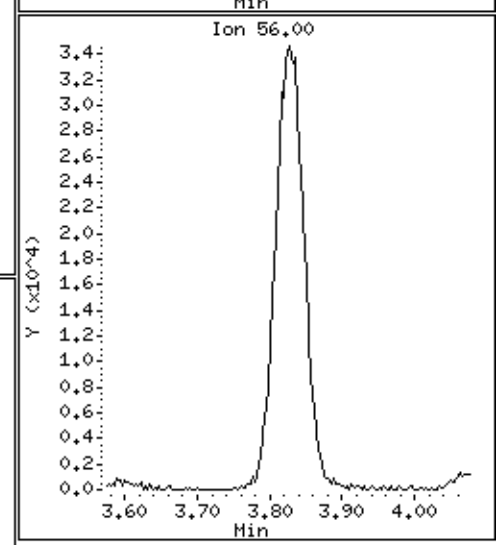
43 2,2,4-Trimethylpentane

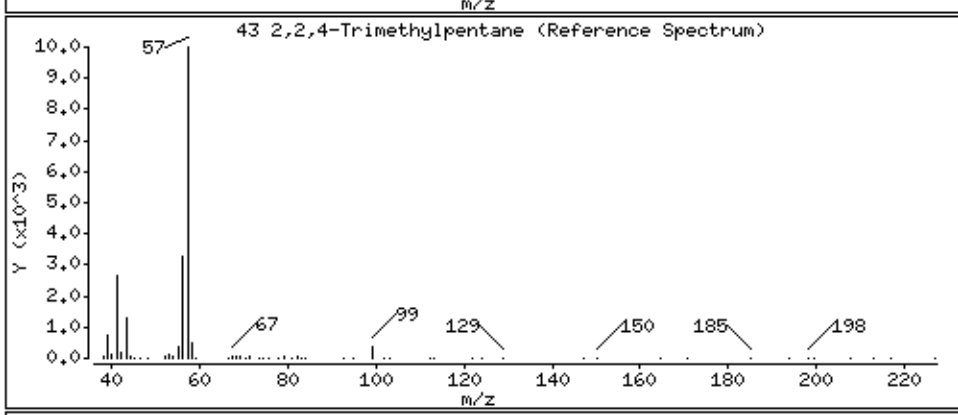
Concentration: 48.7 ppb

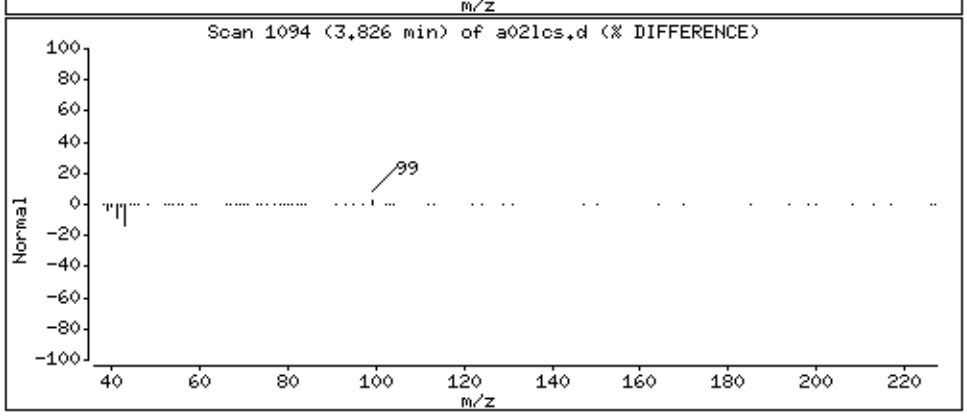












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

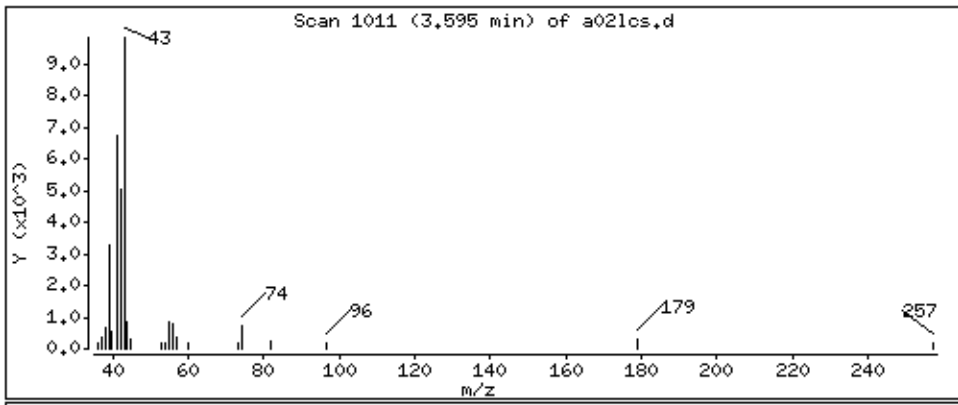
Operator: dae

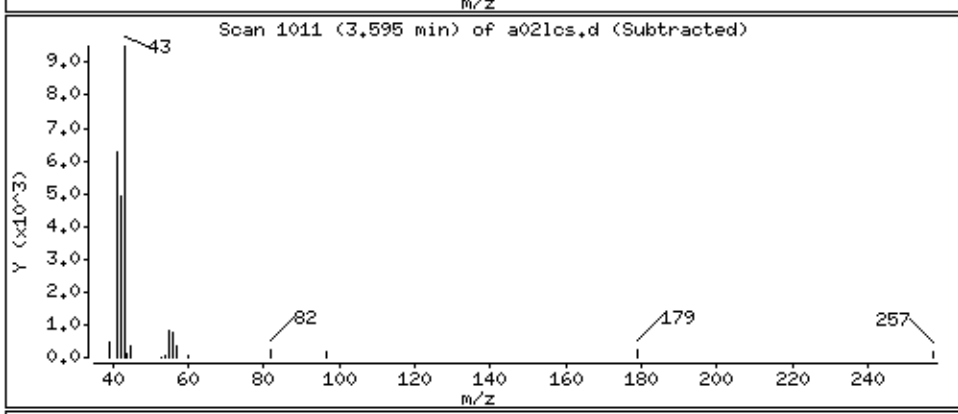
Column phase: DB-624

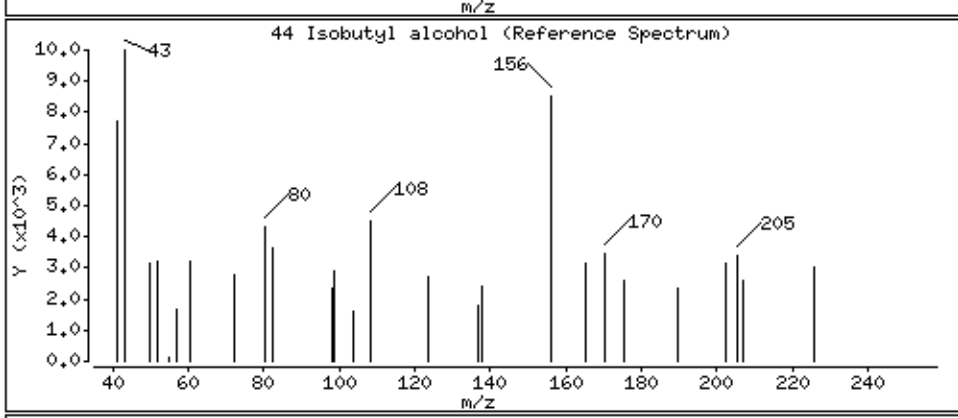
Column diameter: 0.18

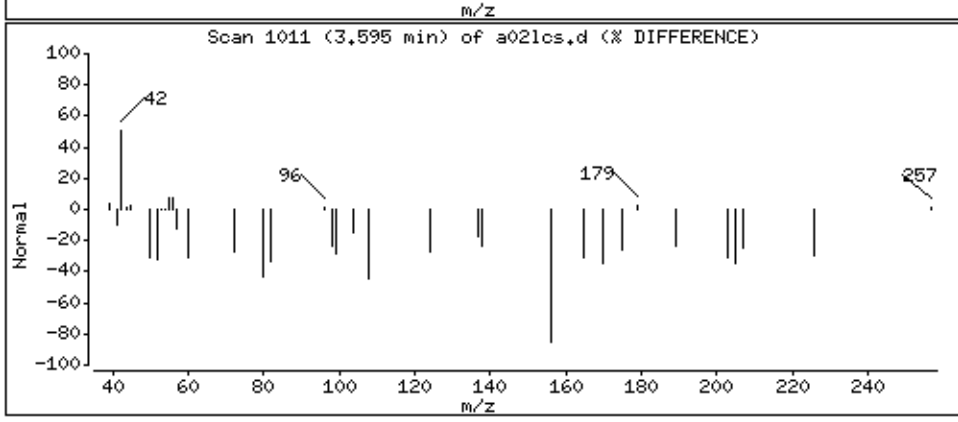
44 Isobutyl alcohol

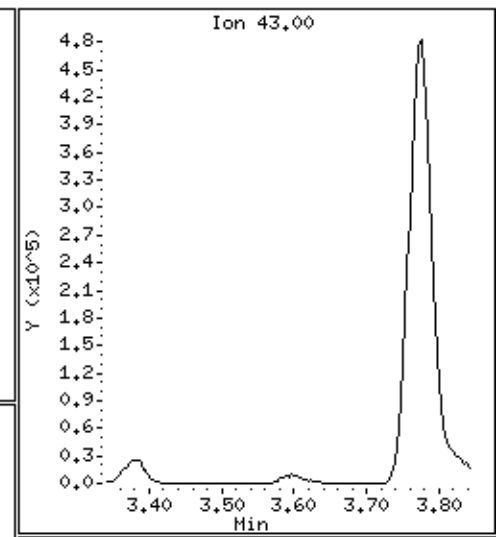
Concentration: 1.04 ppb

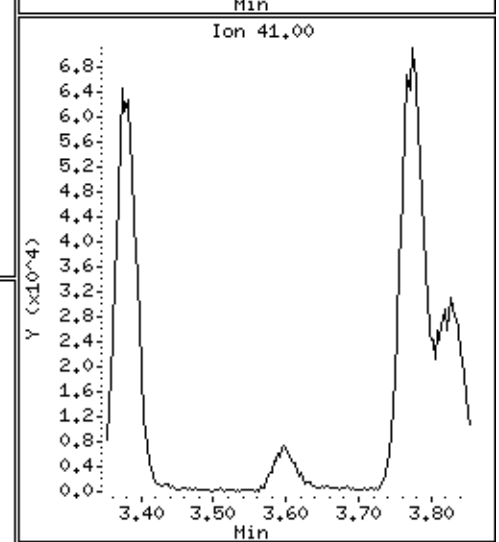


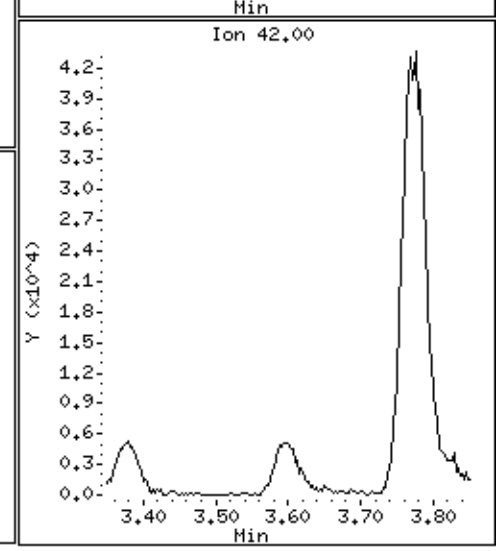












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

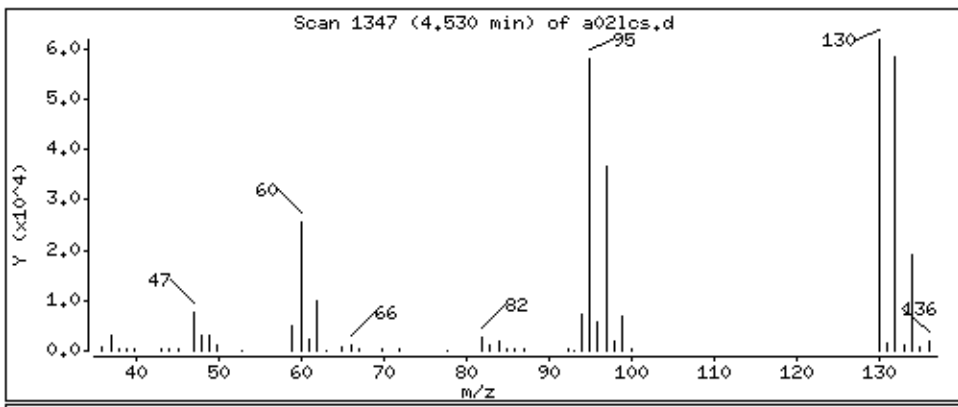
Operator: dae

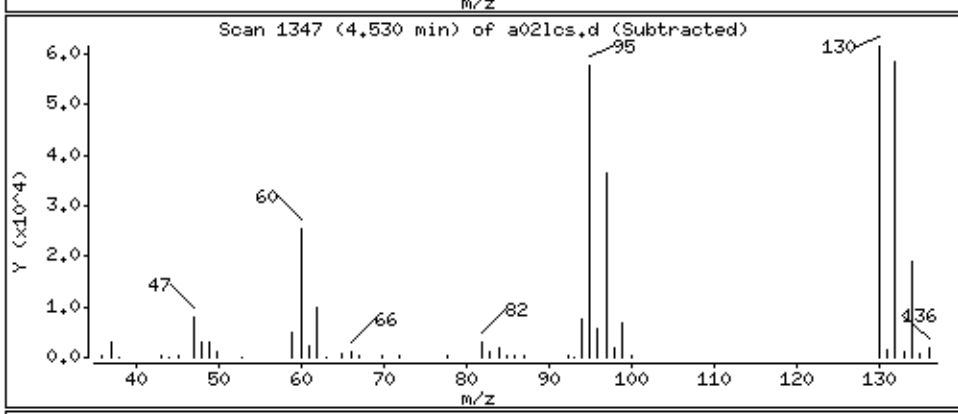
Column phase: DB-624

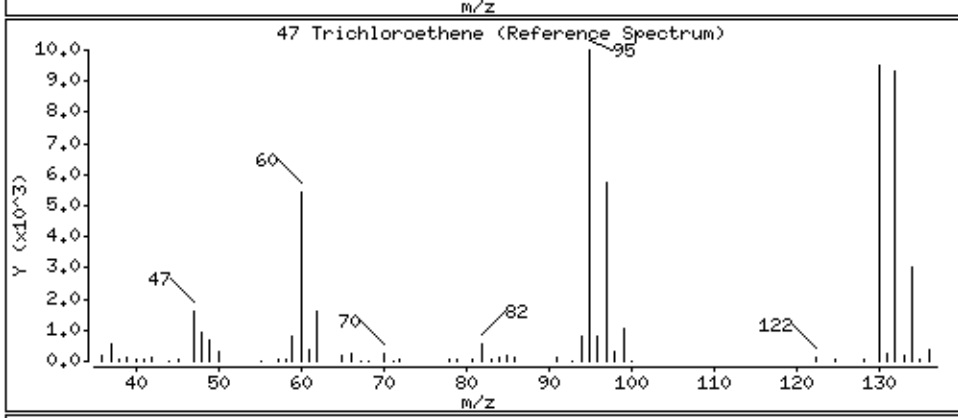
Column diameter: 0.18

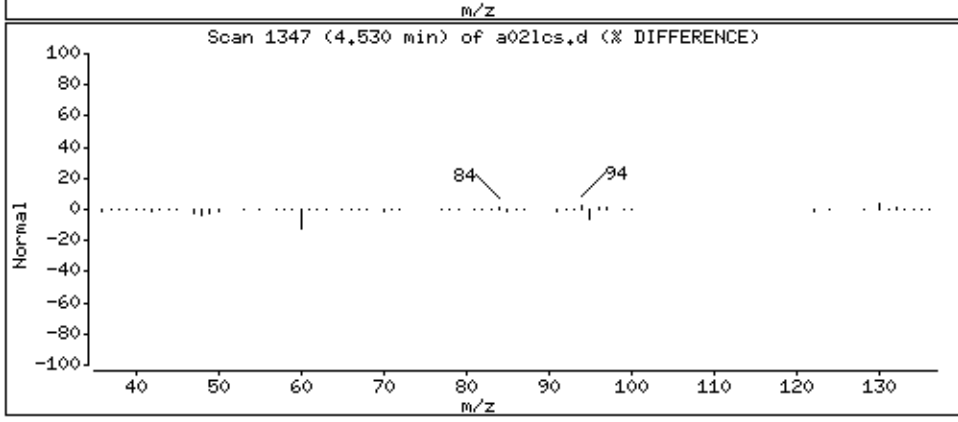
47 Trichloroethene

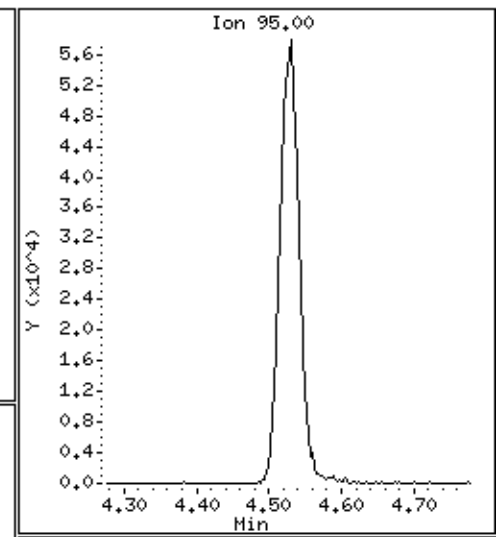
Concentration: 46.0 ppb

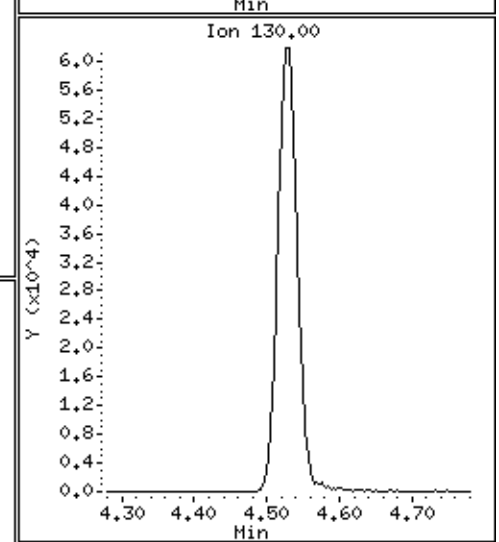


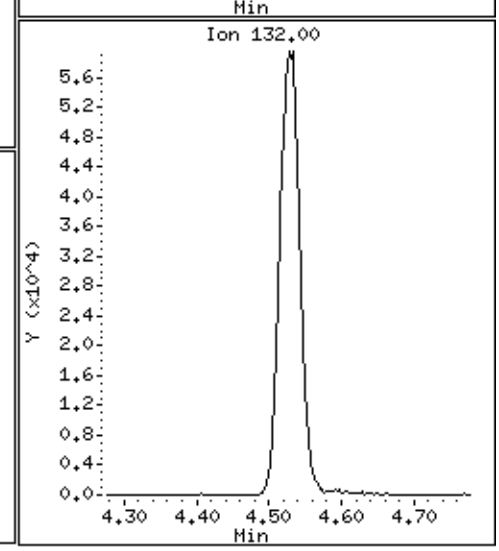












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

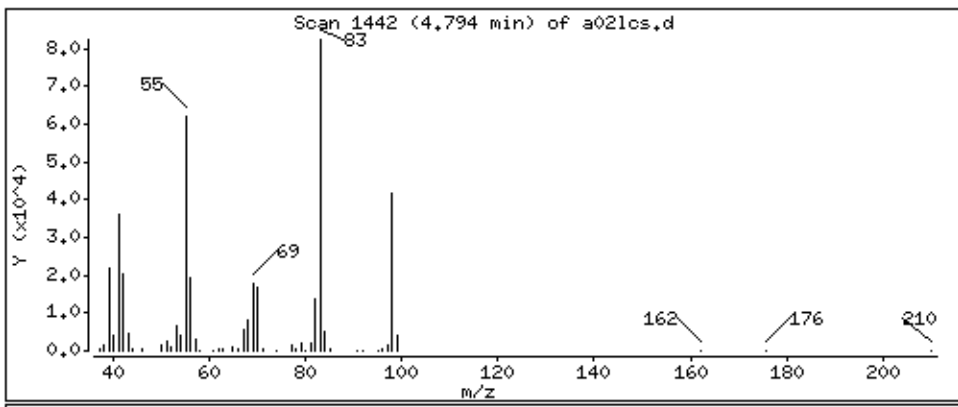
Operator: dae

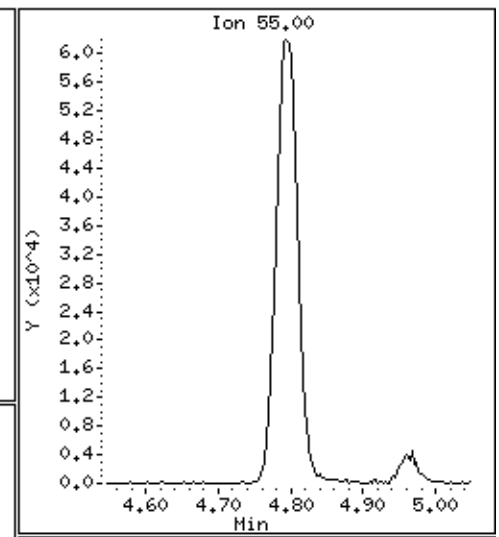
Column phase: DB-624

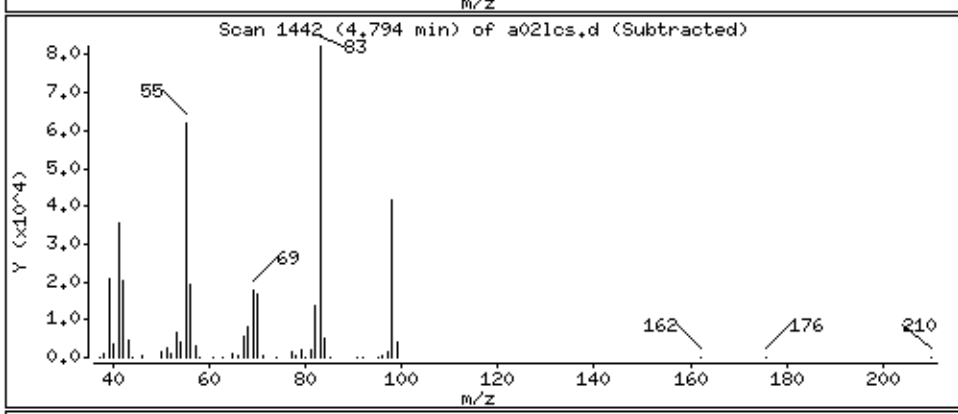
Column diameter: 0.18

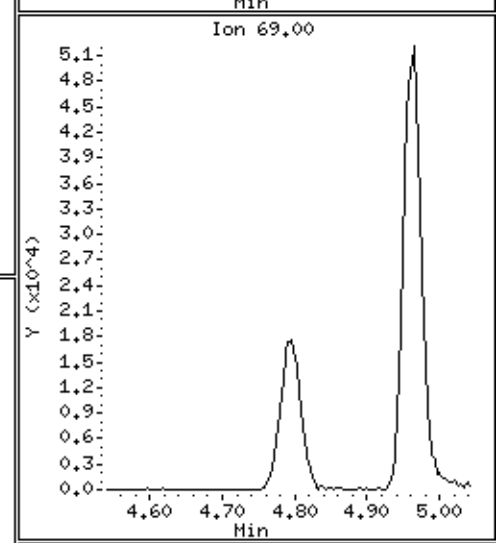
48 Methylcyclohexane

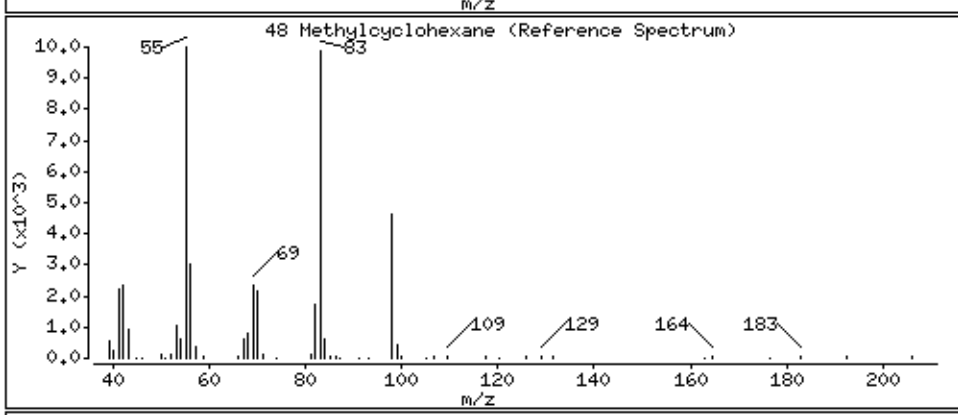
Concentration: 48.1 ppb

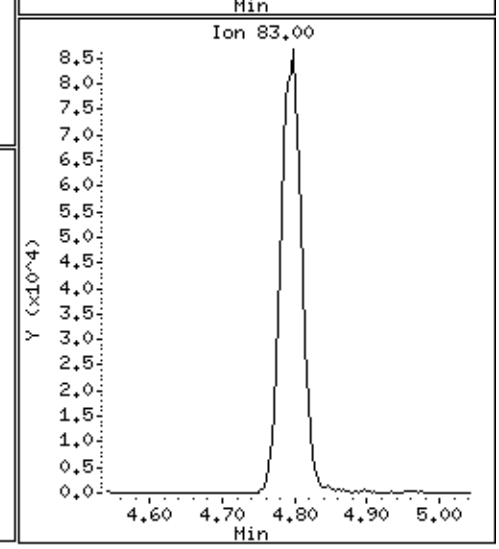


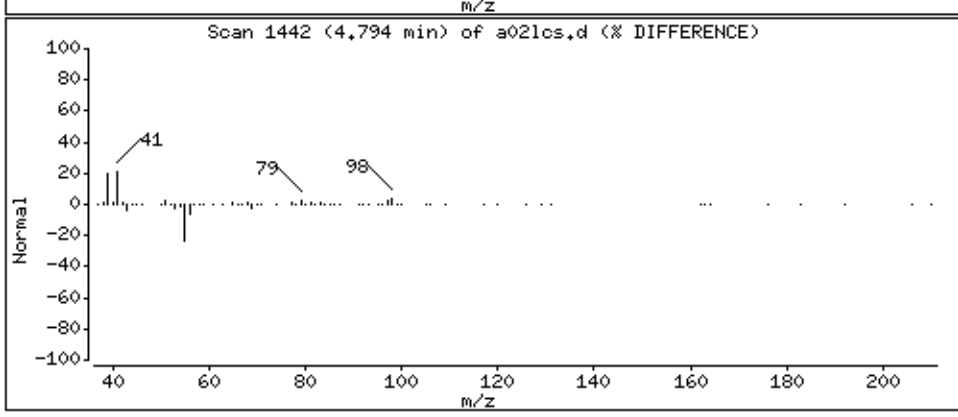












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

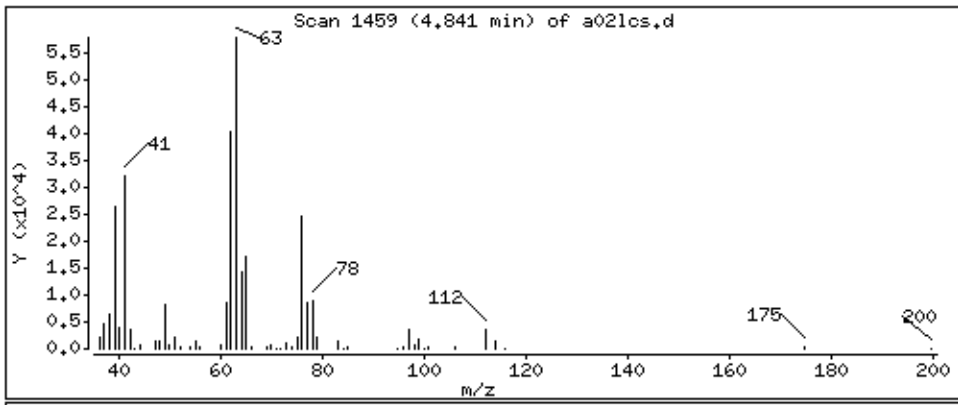
Operator: dae

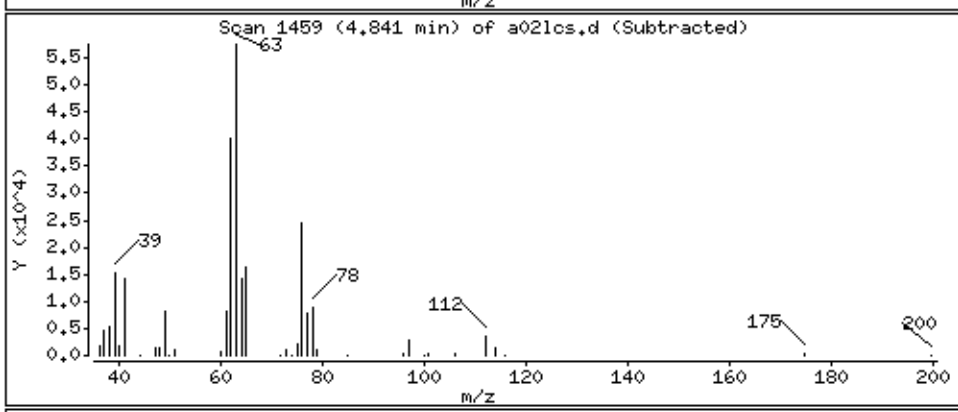
Column phase: DB-624

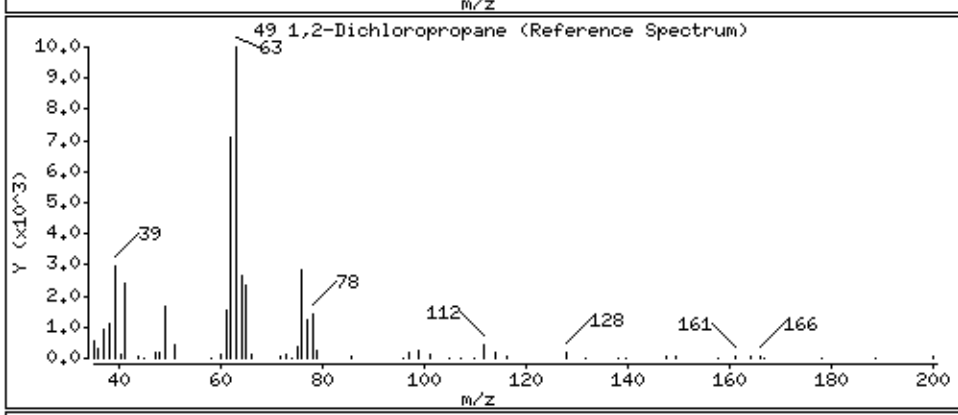
Column diameter: 0.18

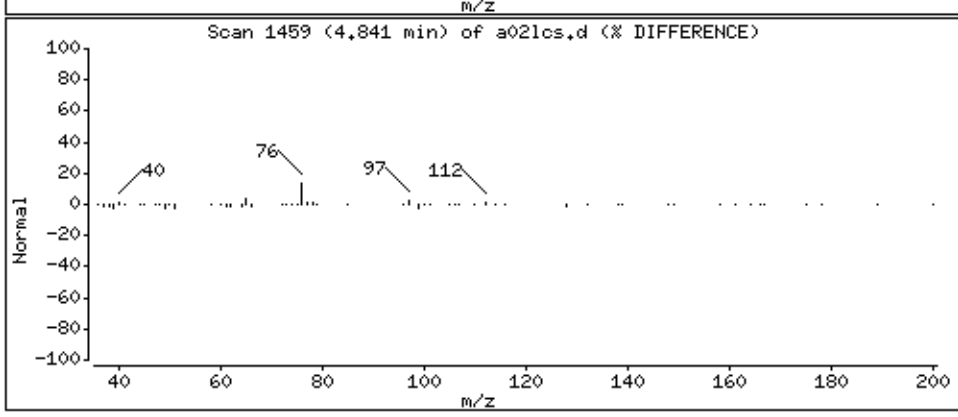
49 1,2-Dichloropropane

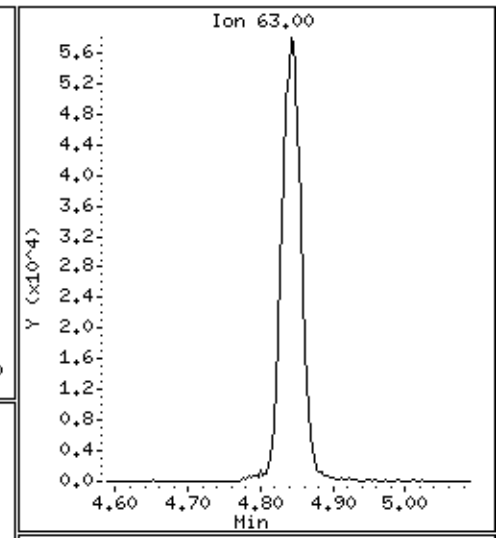
Concentration: 45.7 ppb

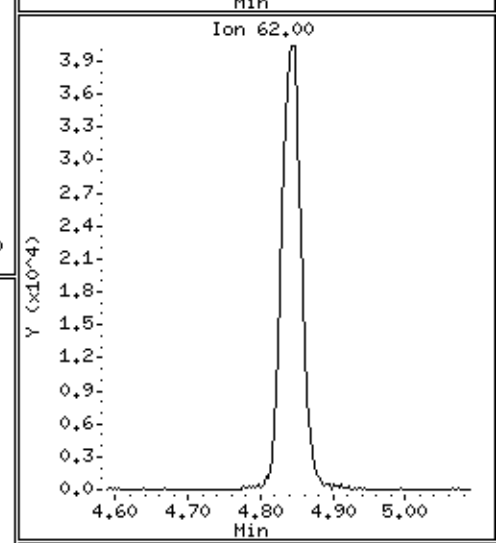


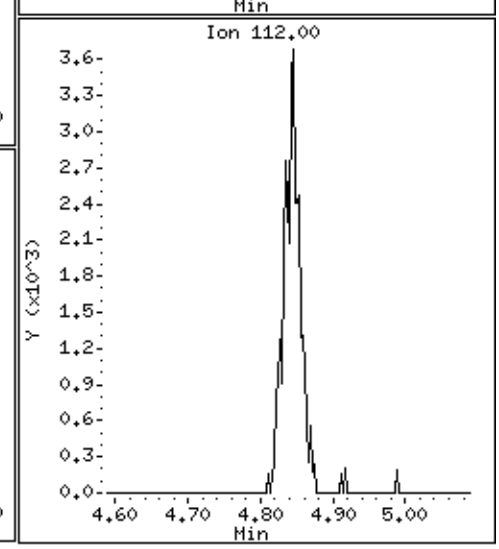












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

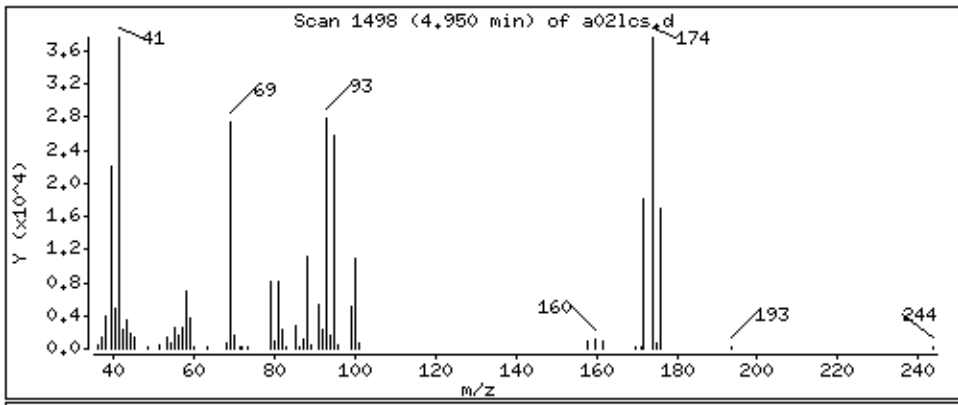
Operator: dae

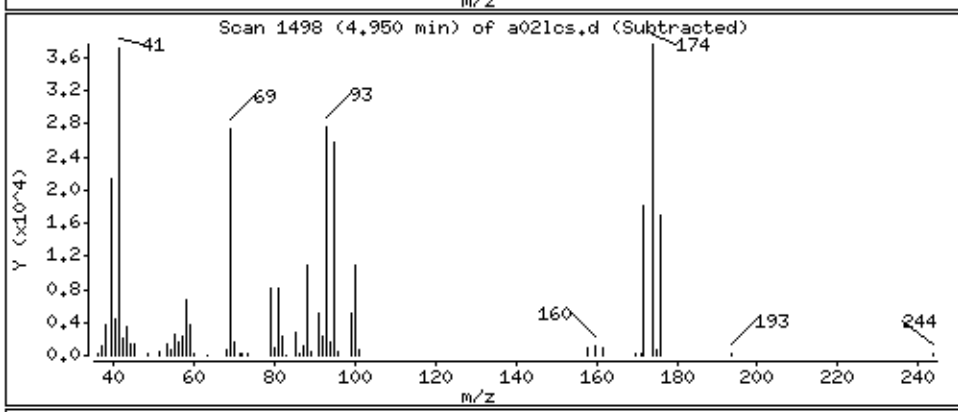
Column phase: DB-624

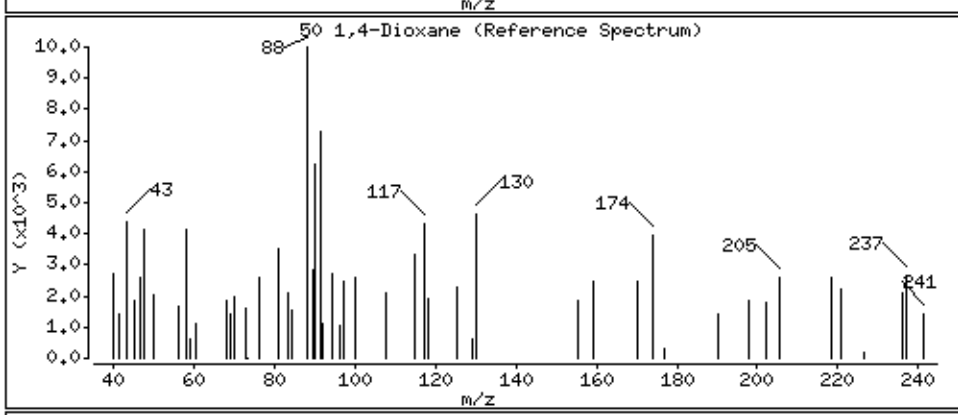
Column diameter: 0.18

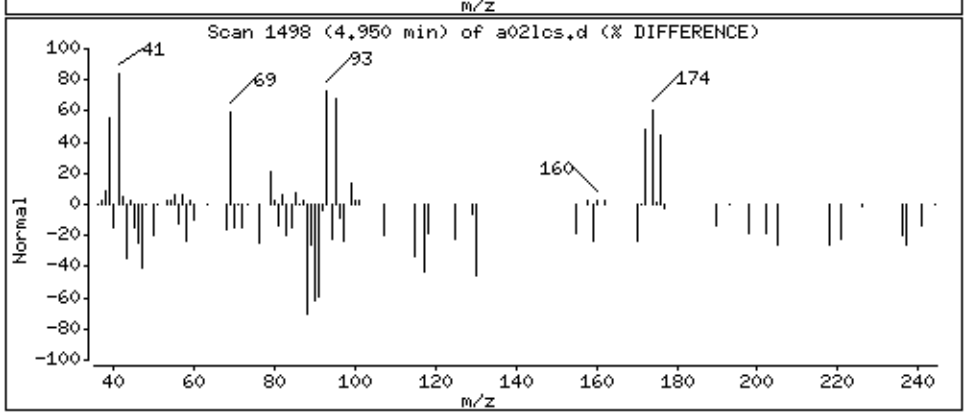
50 1,4-Dioxane

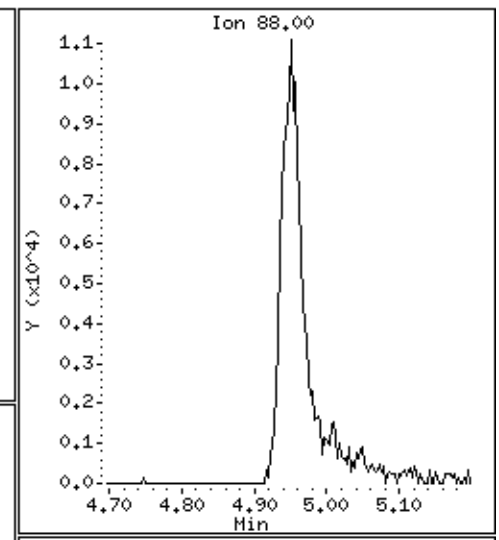
Concentration: 926 ppb

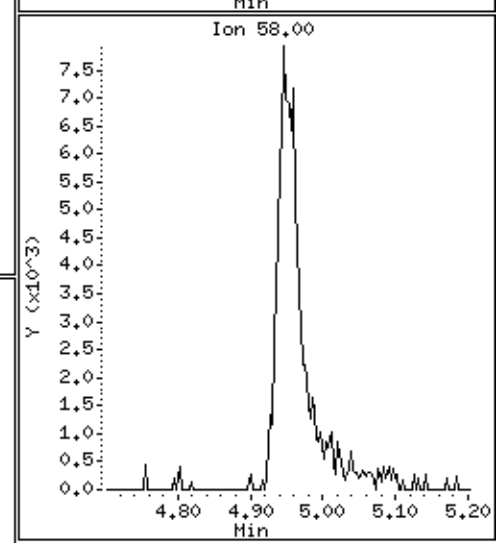












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

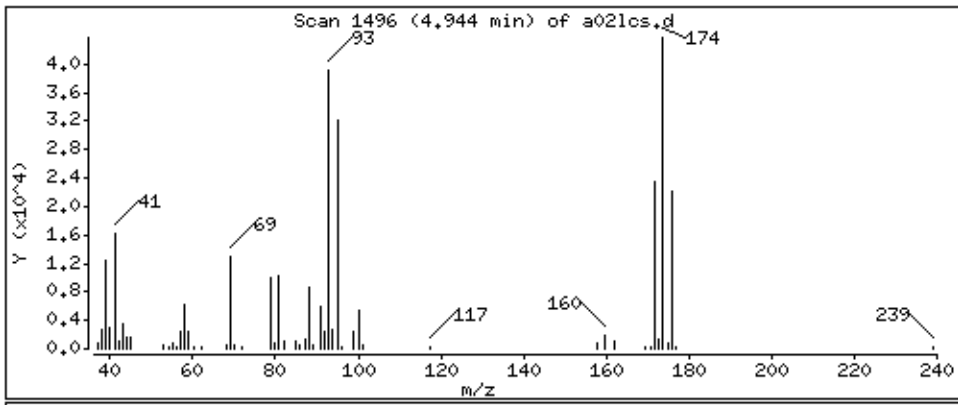
Operator: dae

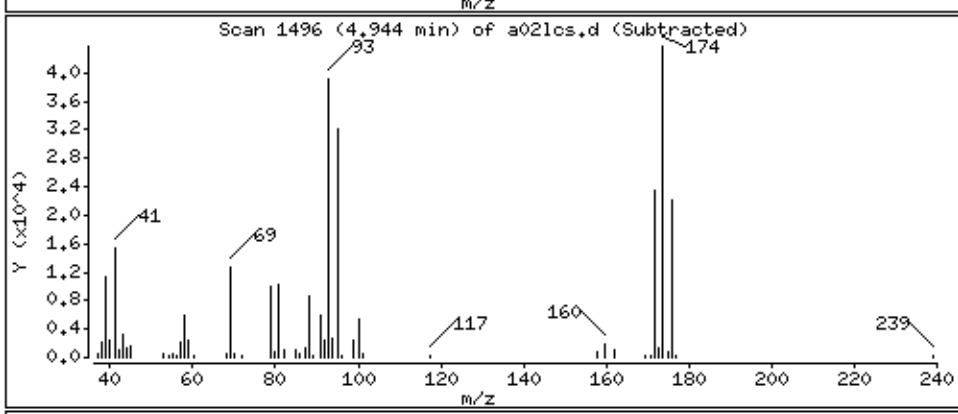
Column phase: DB-624

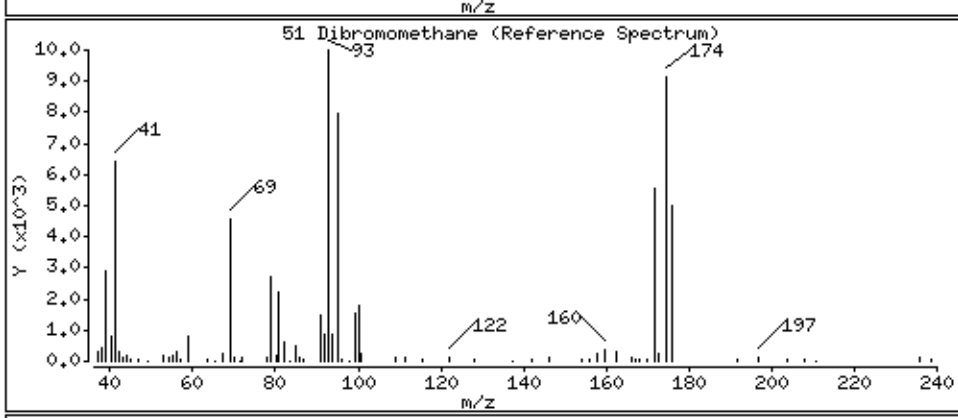
Column diameter: 0.18

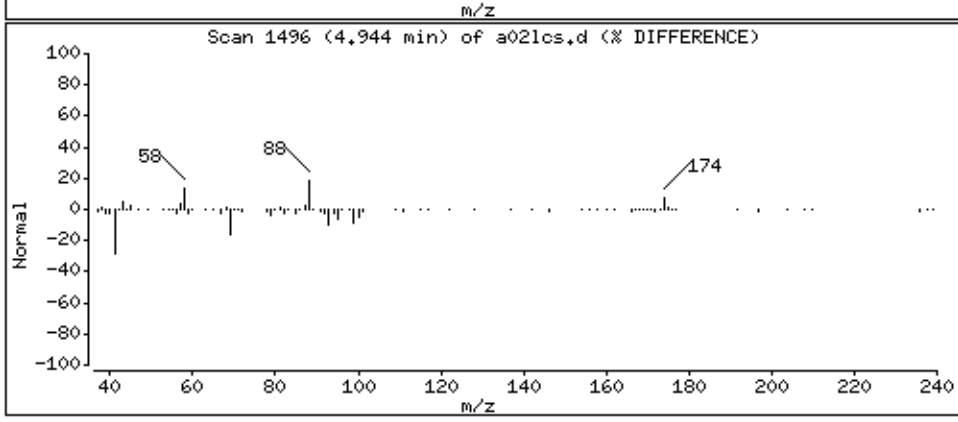
51 Dibromomethane

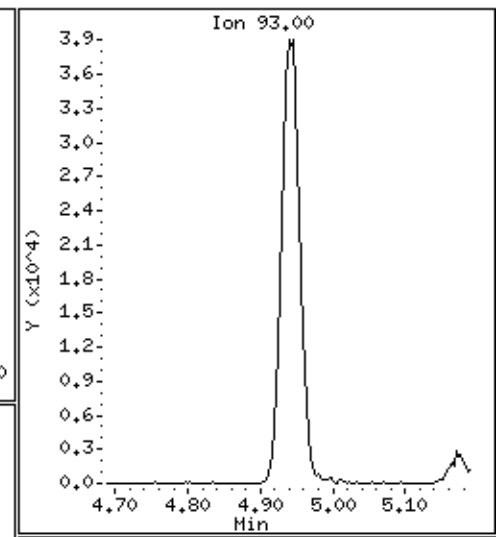
Concentration: 47.1 ppb

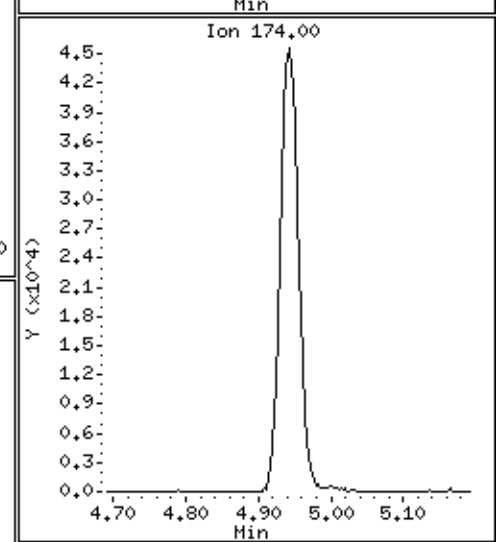


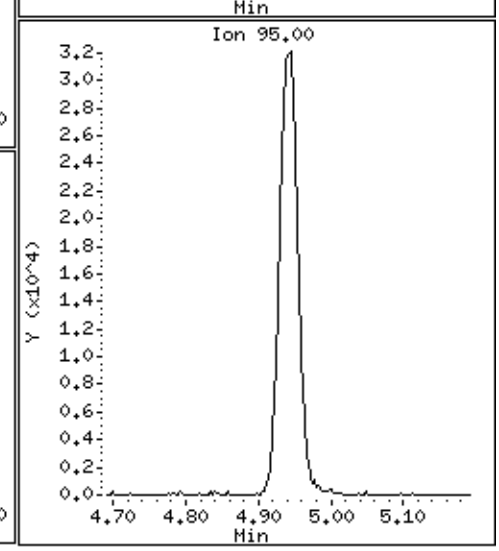












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

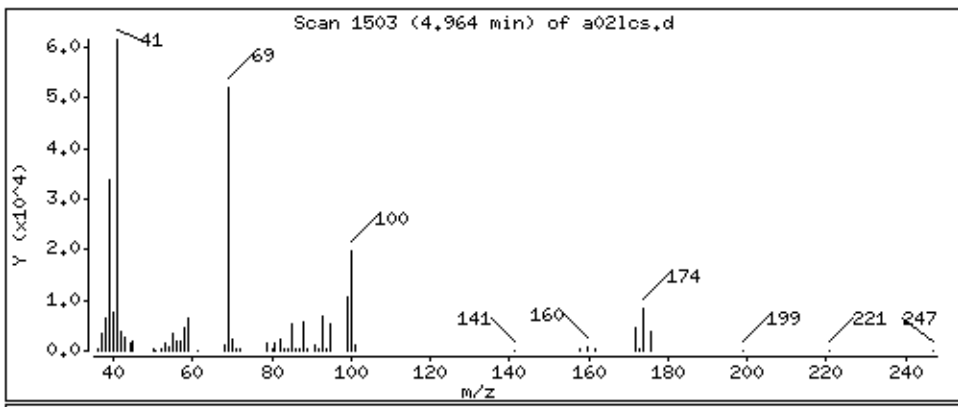
Operator: dae

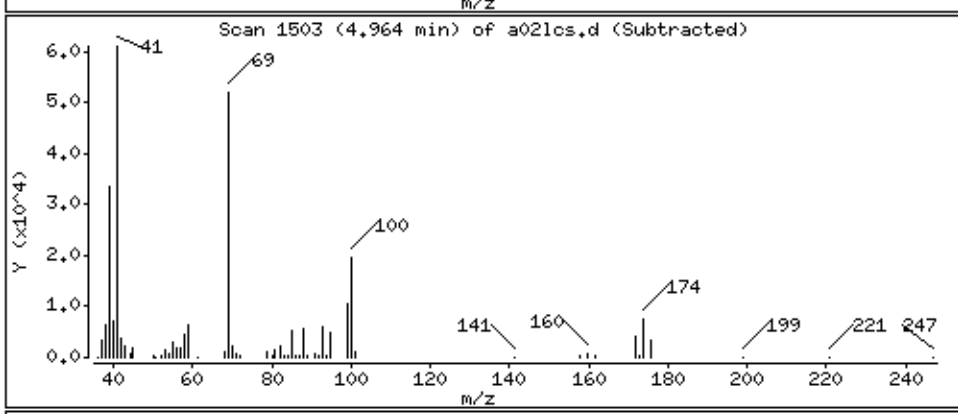
Column phase: DB-624

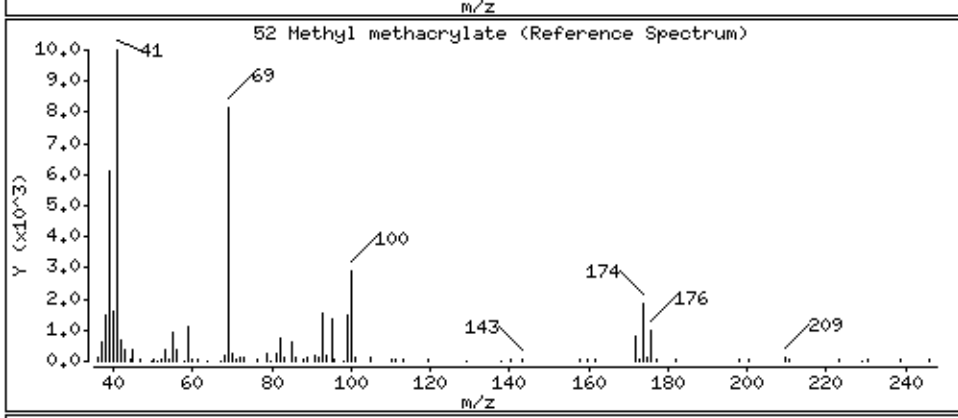
Column diameter: 0.18

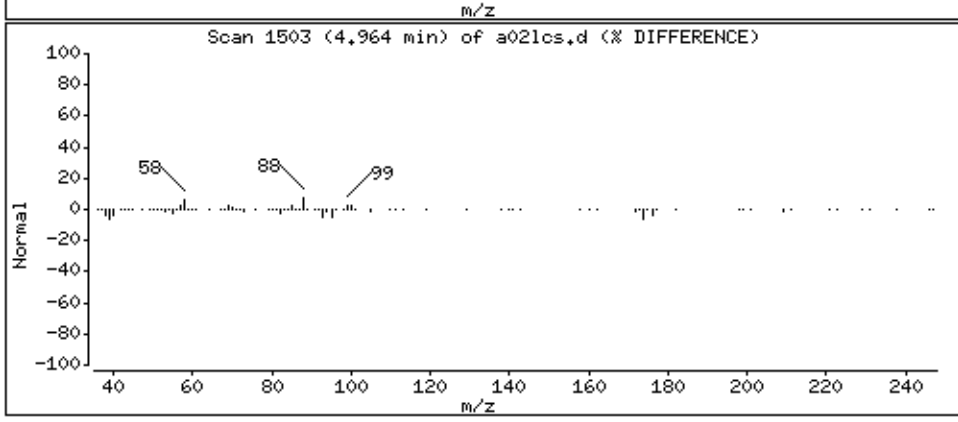
52 Methyl methacrylate

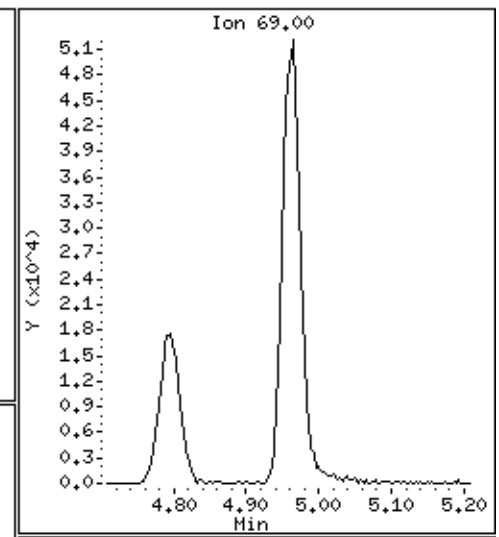
Concentration: 46.6 ppb

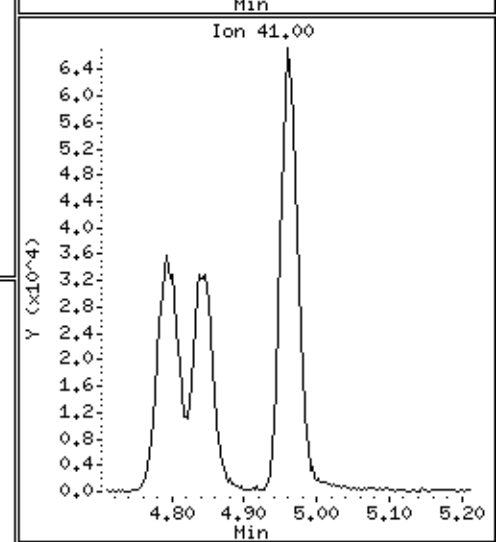


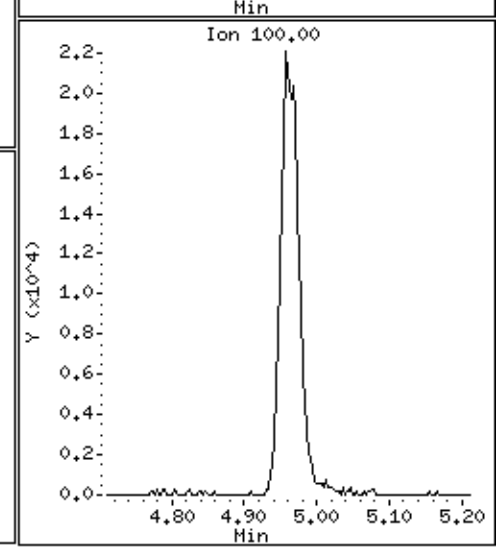












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

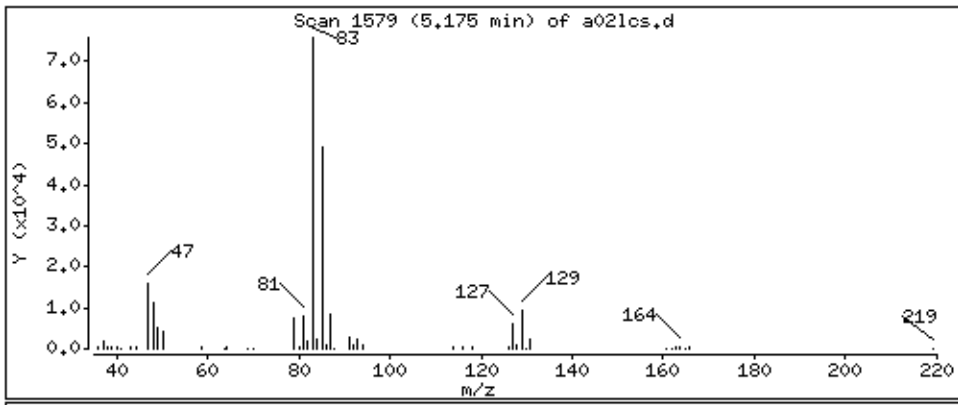
Operator: dae

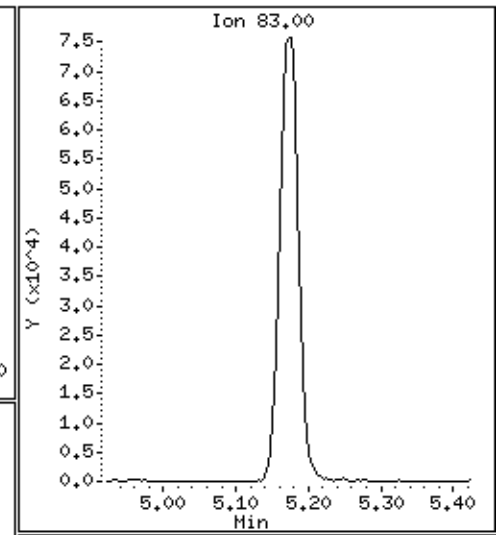
Column phase: DB-624

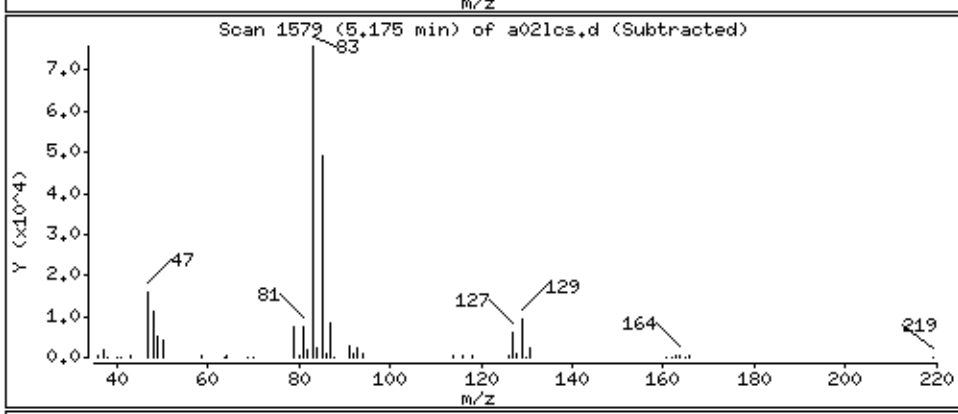
Column diameter: 0.18

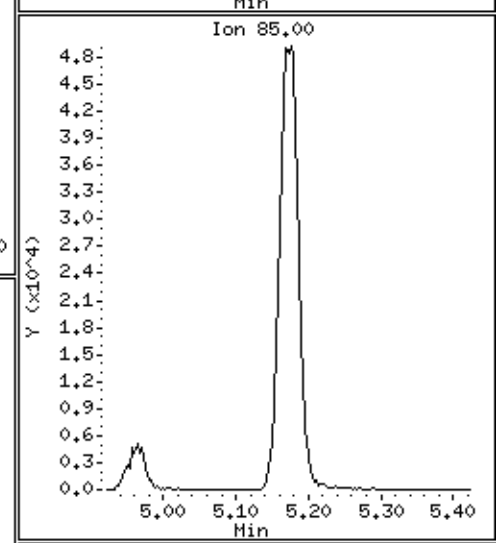
53 Bromodichloromethane

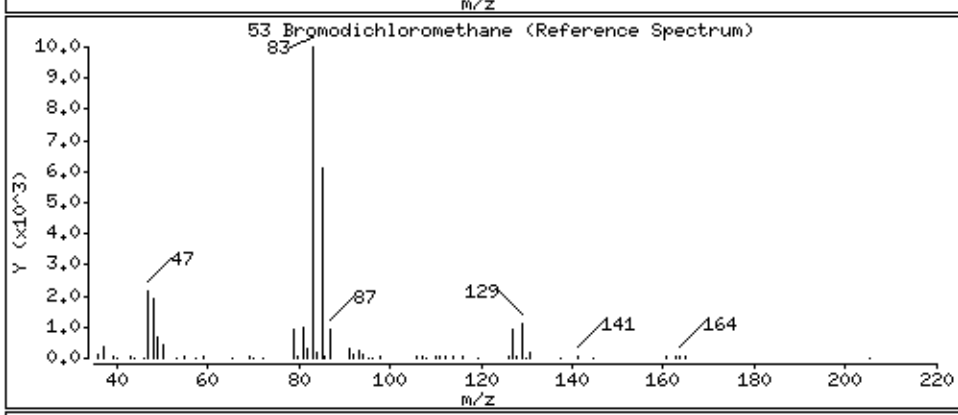
Concentration: 45.7 ppb

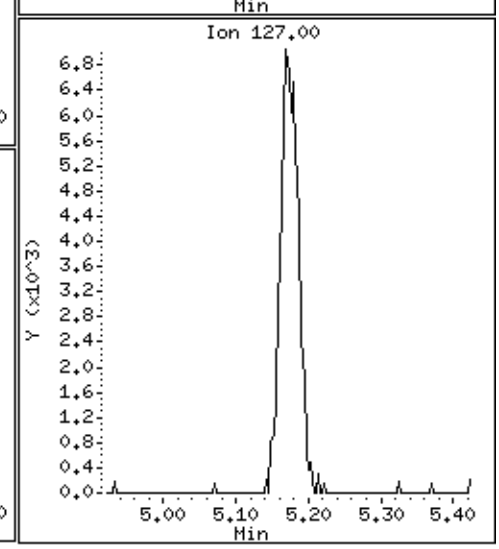


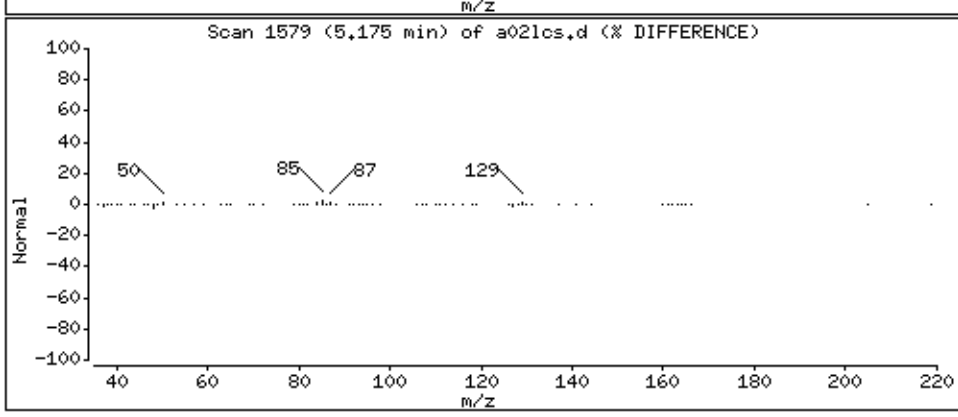












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

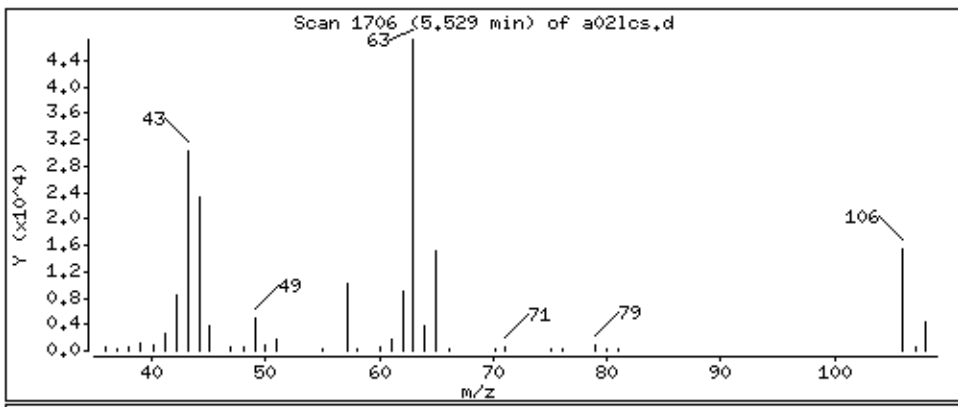
Operator: dae

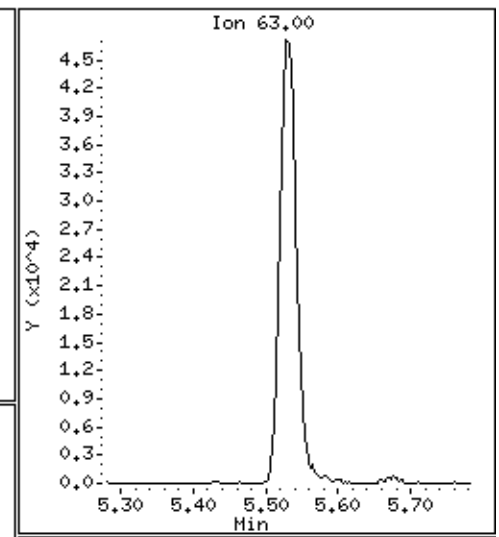
Column phase: DB-624

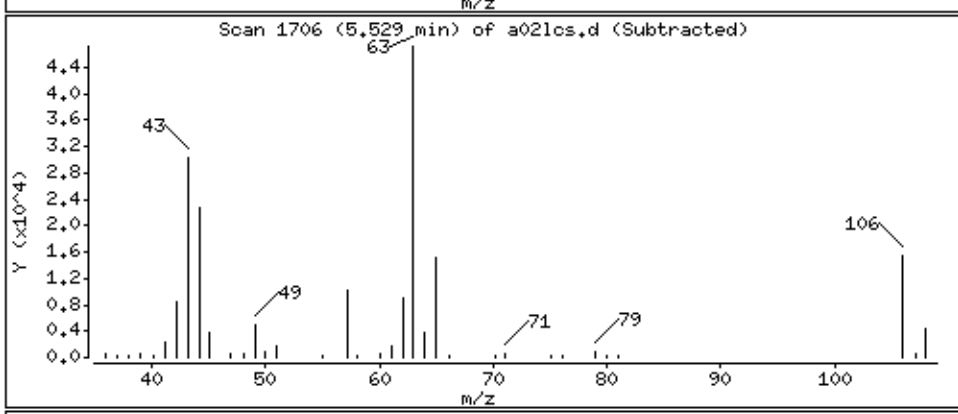
Column diameter: 0.18

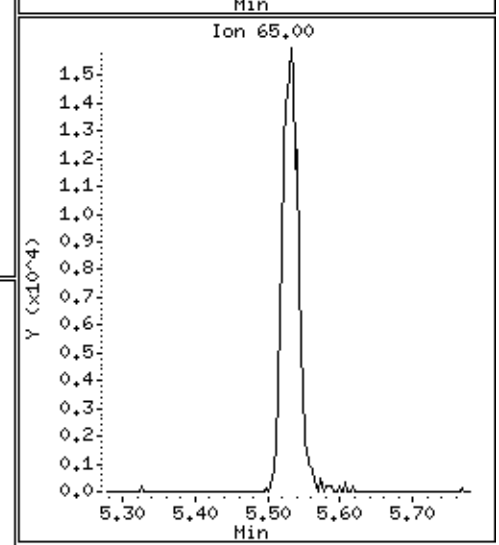
54 2-Chloroethyl vinyl ether

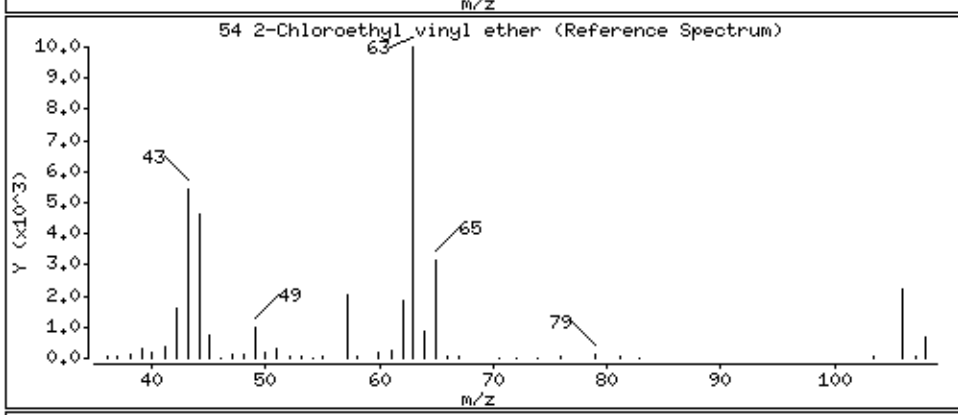
Concentration: 42.2 ppb

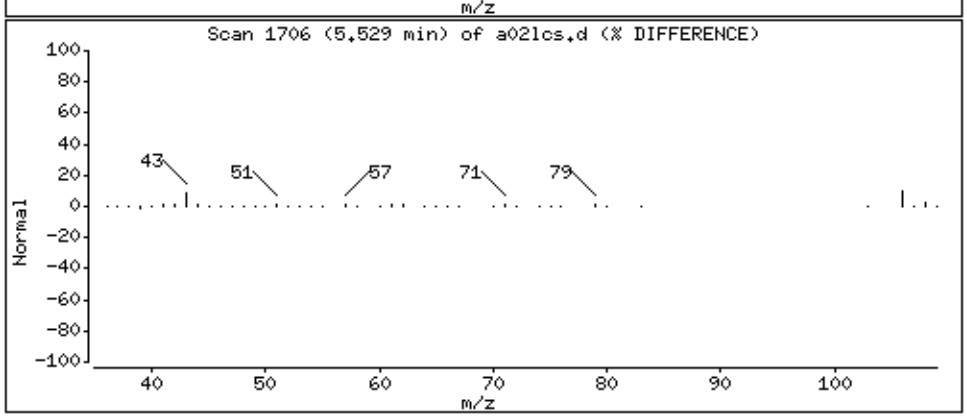












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

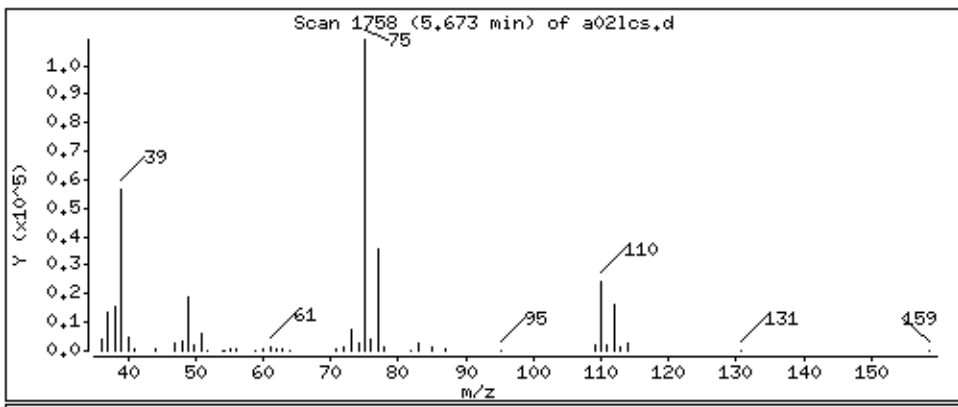
Operator: dae

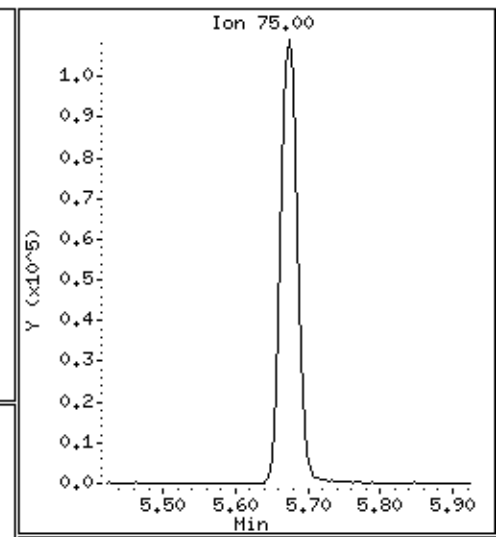
Column phase: DB-624

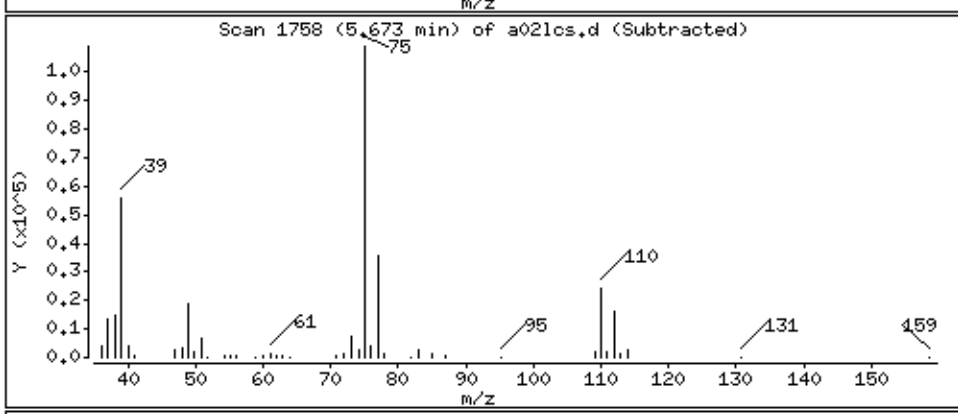
Column diameter: 0.18

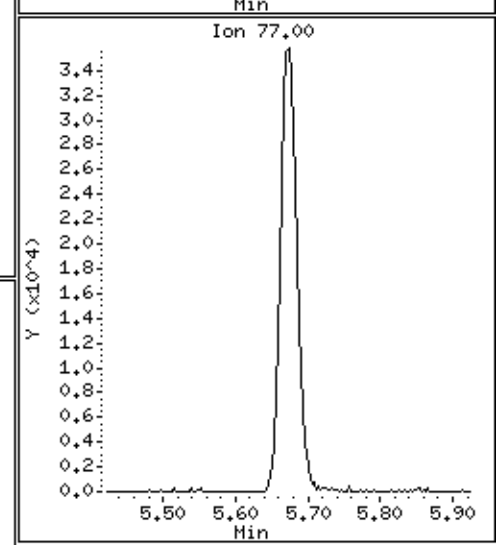
55 cis-1,3-Dichloropropene

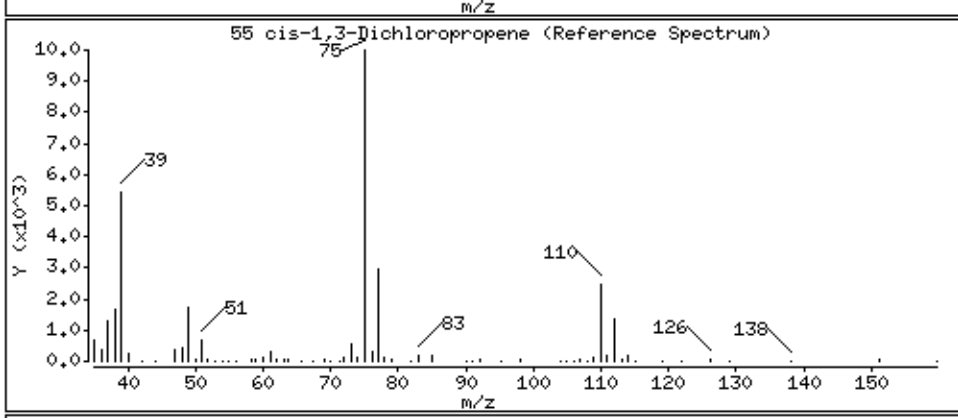
Concentration: 45.9 ppb

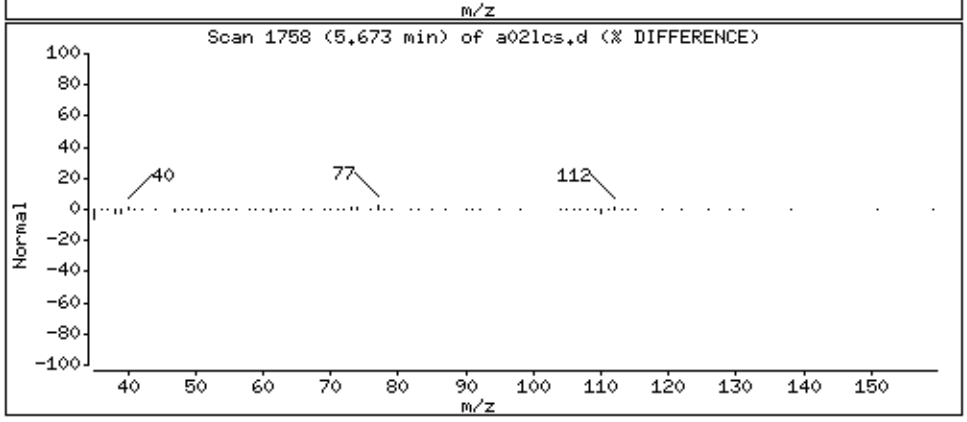












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

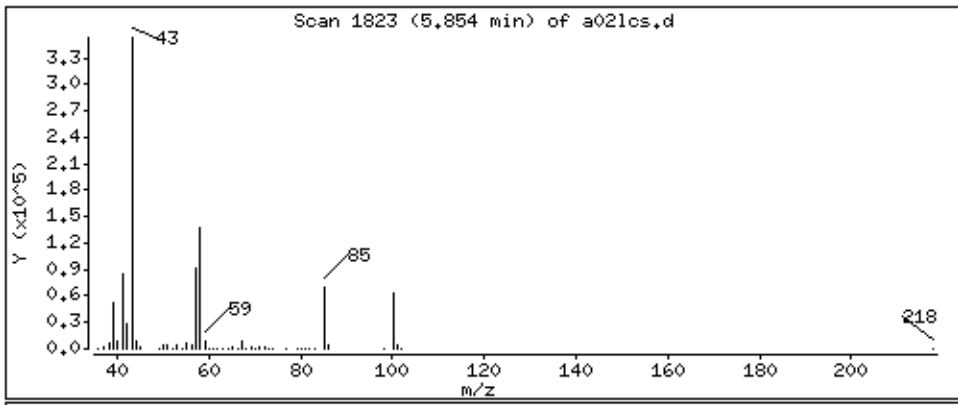
Operator: dae

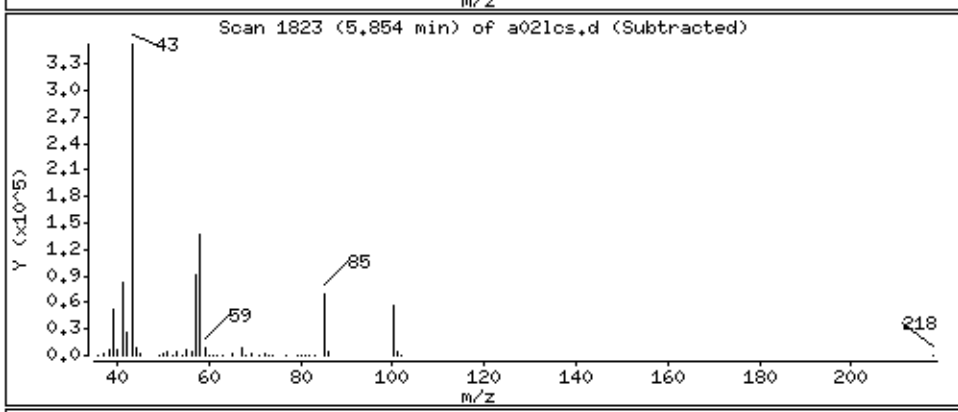
Column phase: DB-624

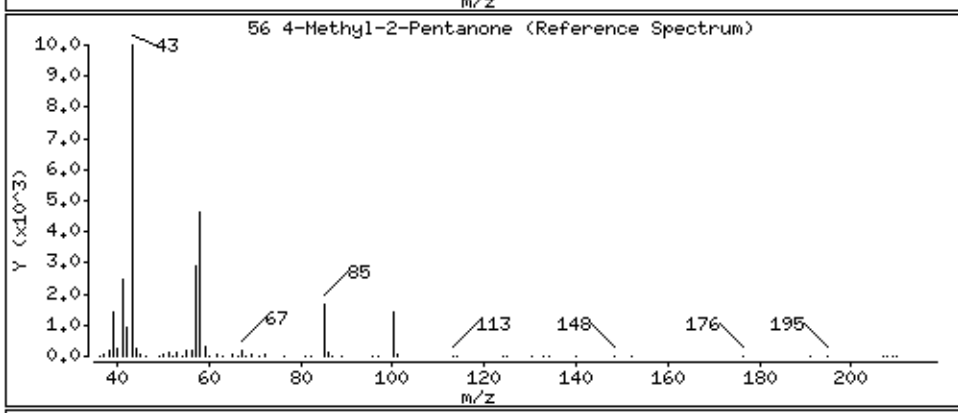
Column diameter: 0.18

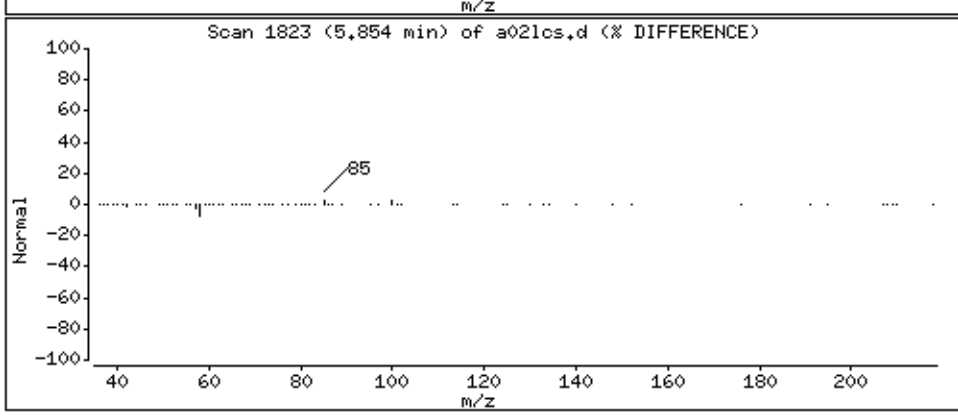
56 4-Methyl-2-Pentanone

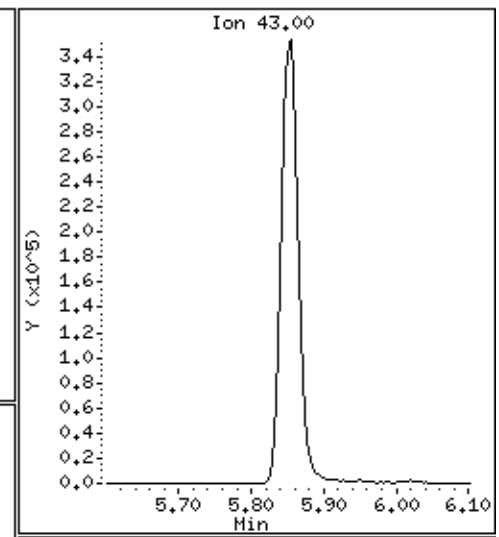
Concentration: 221 ppb

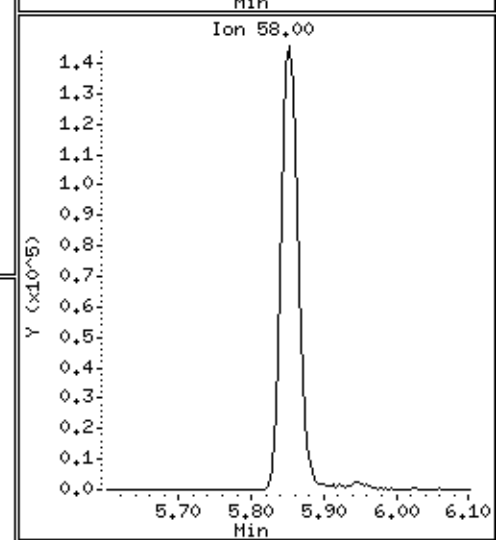


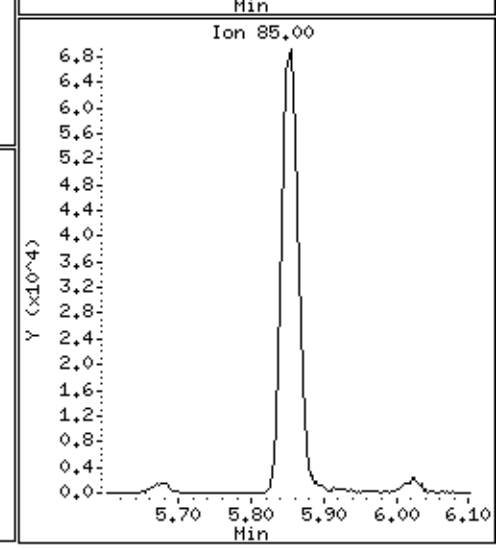












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

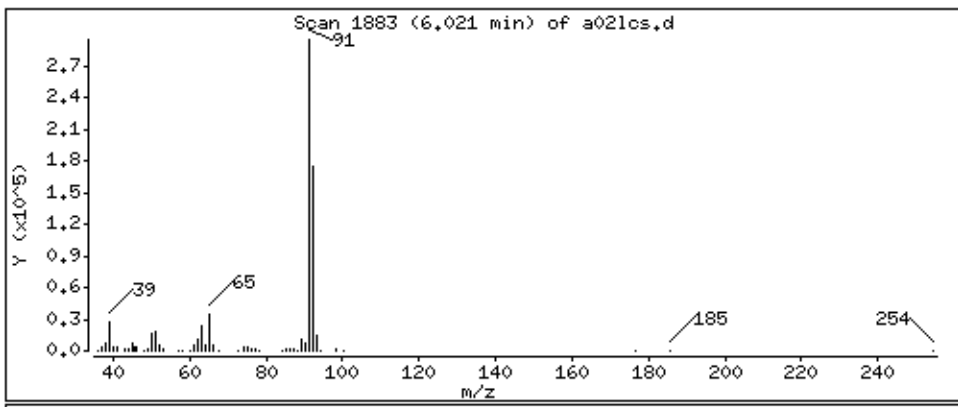
Operator: dae

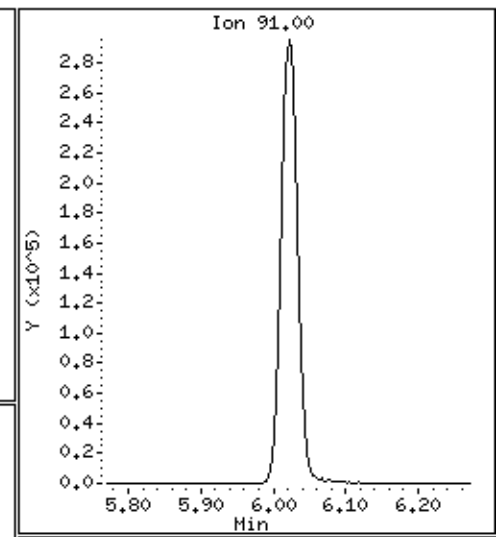
Column phase: DB-624

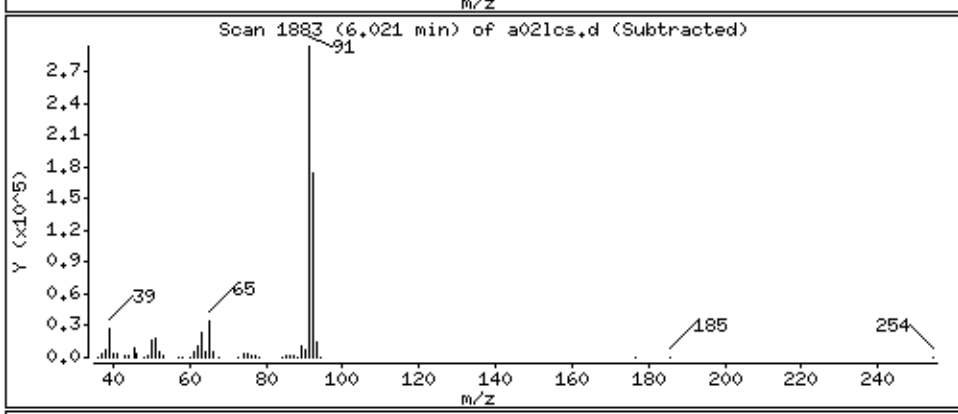
Column diameter: 0.18

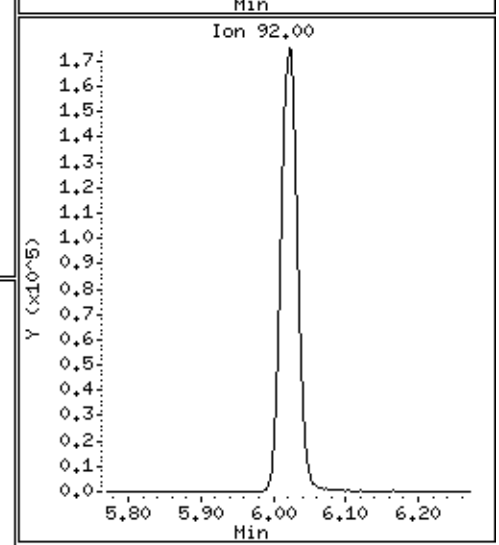
58 Toluene

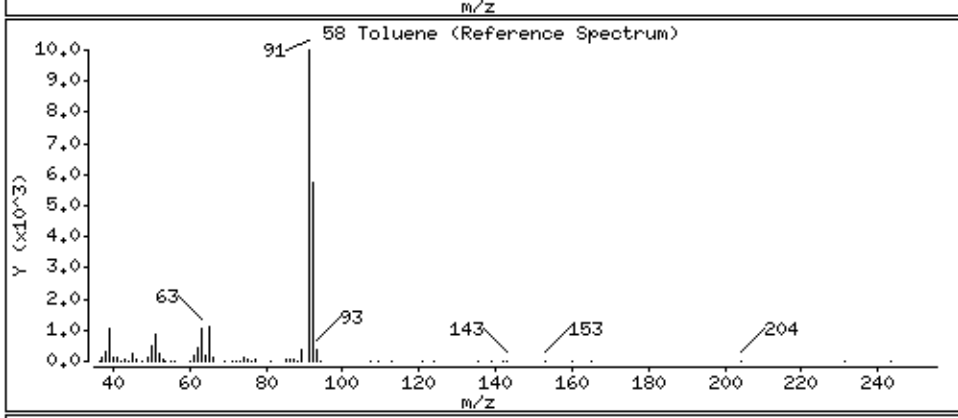
Concentration: 47.8 ppb

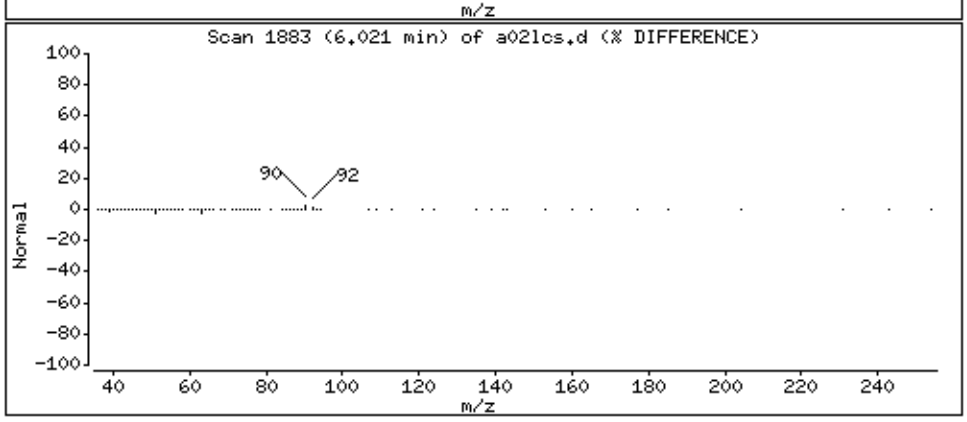












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

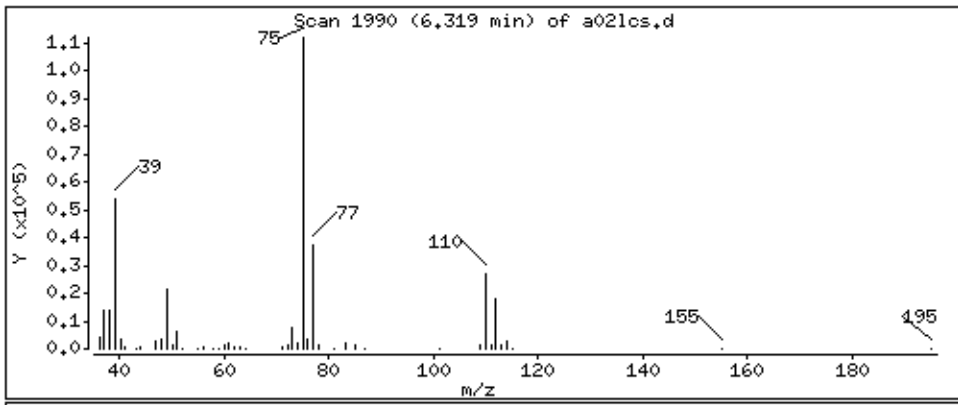
Operator: dae

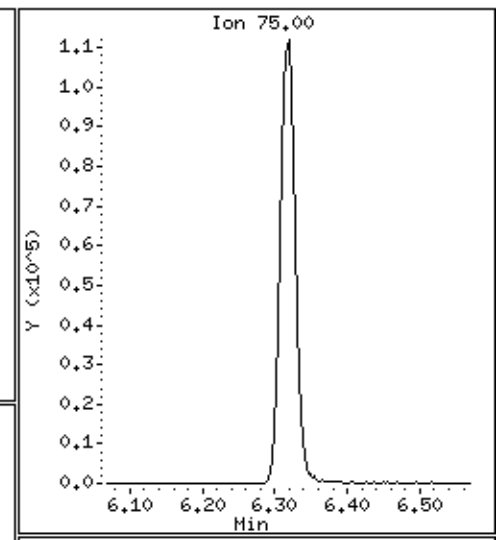
Column phase: DB-624

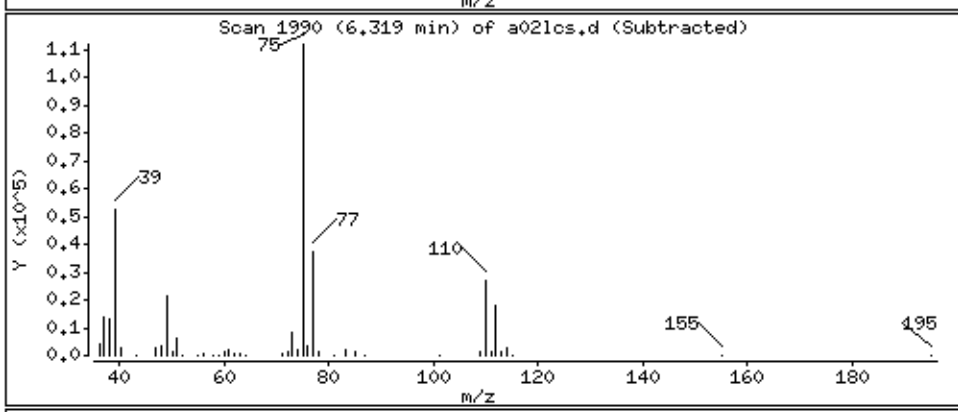
Column diameter: 0.18

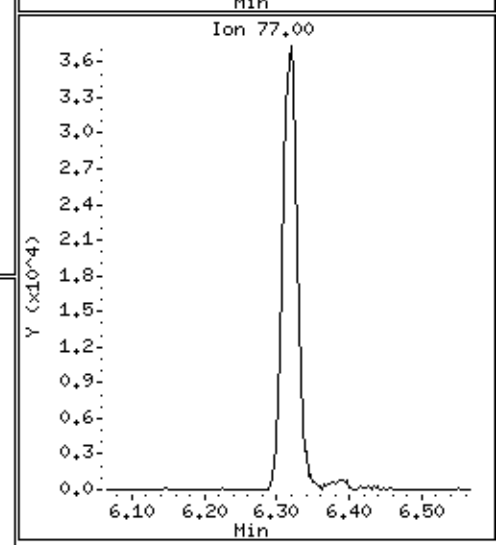
59 trans-1,3-Dichloropropene

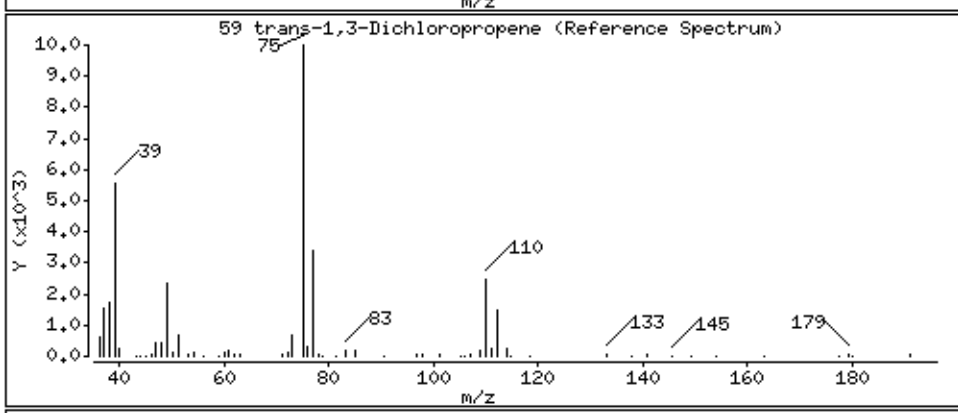
Concentration: 45.6 ppb

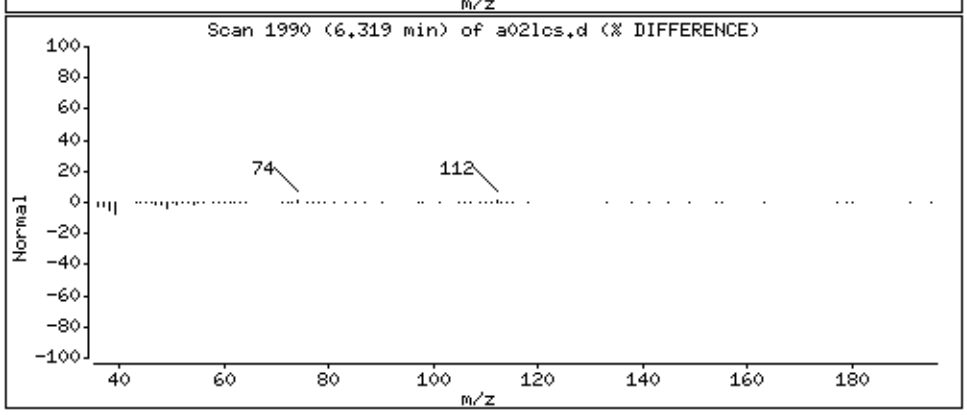












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

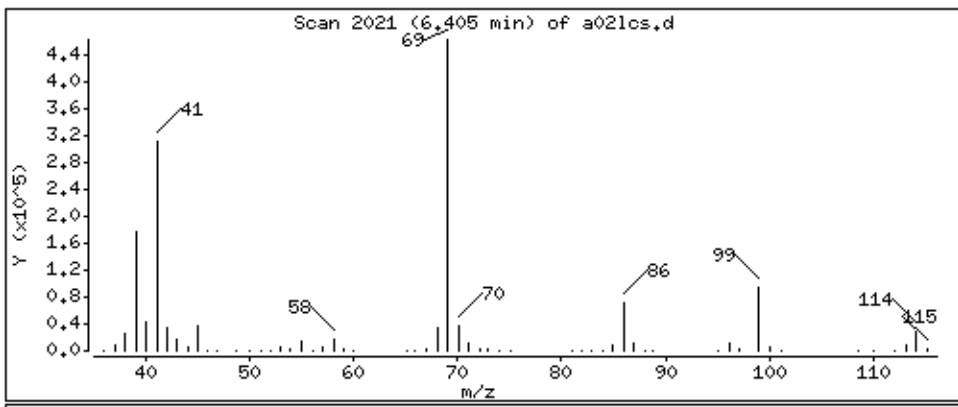
Operator: dae

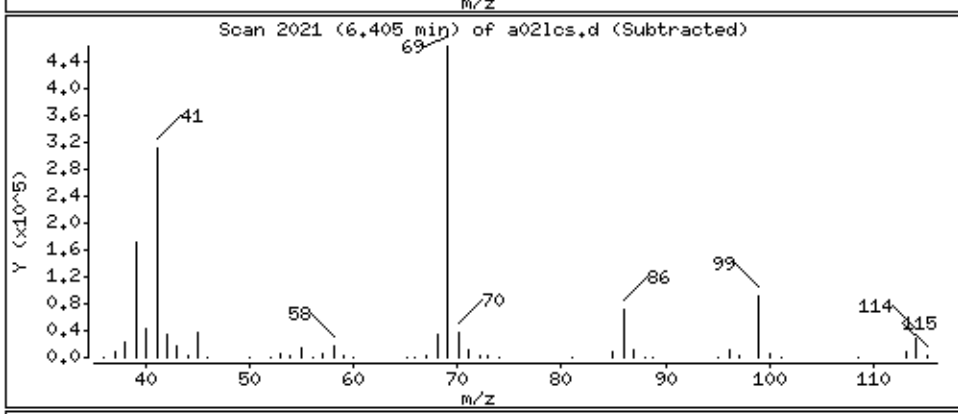
Column phase: DB-624

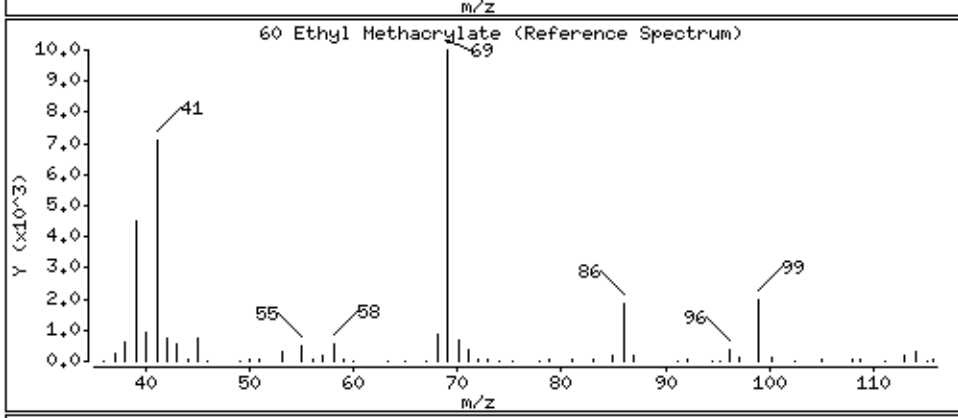
Column diameter: 0.18

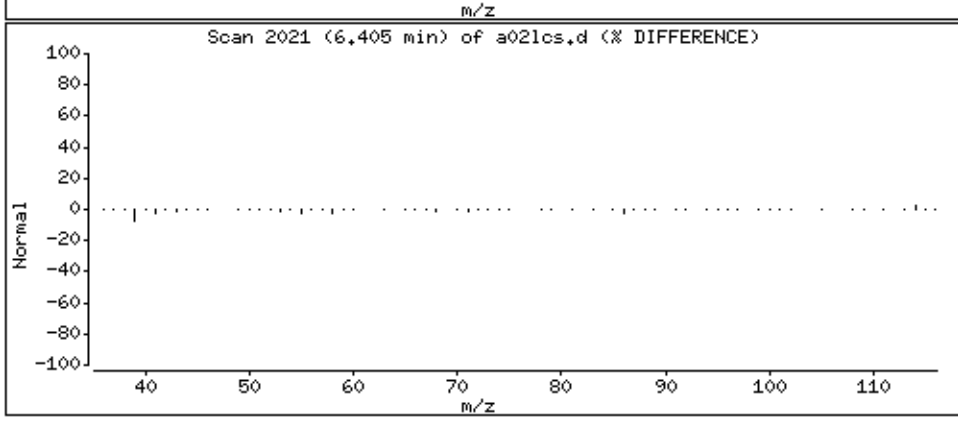
60 Ethyl Methacrylate

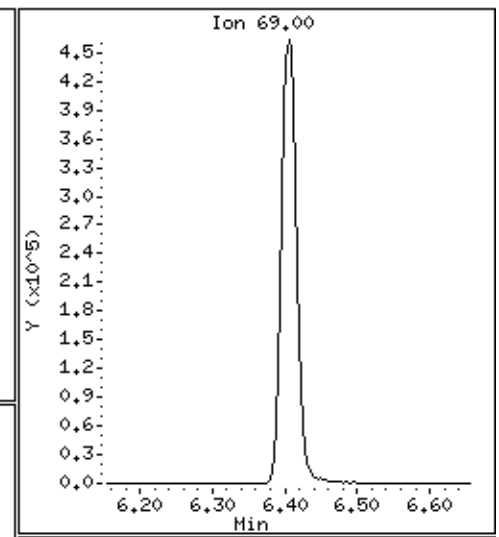
Concentration: 191 ppb

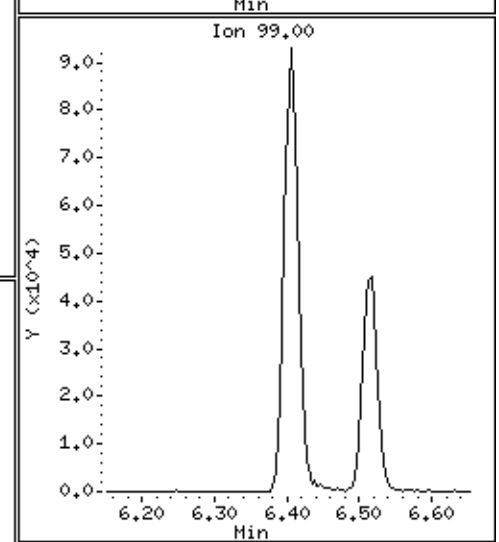


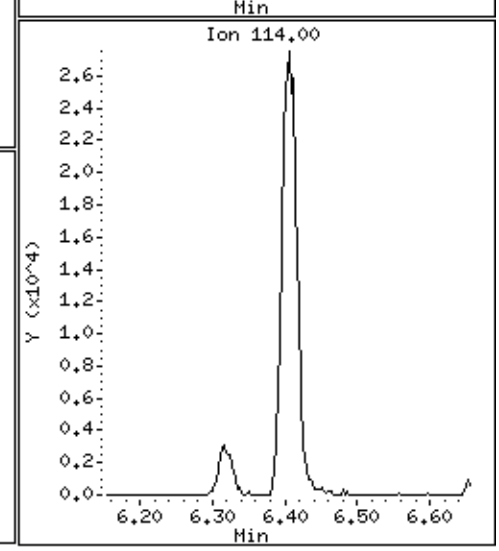












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

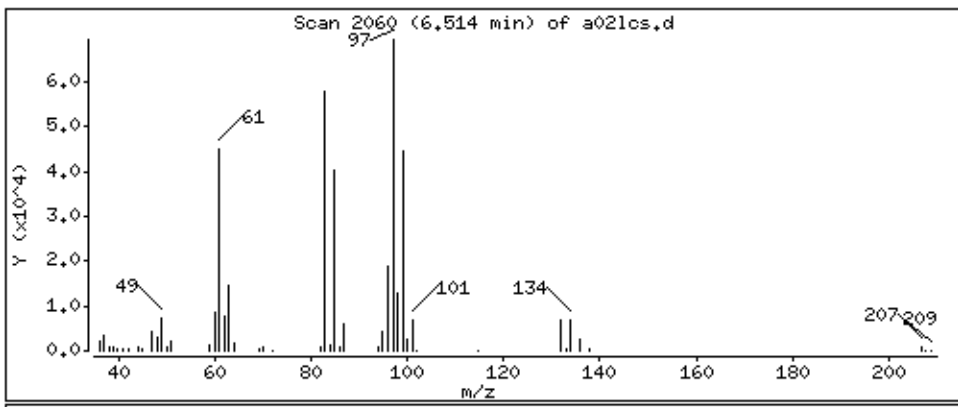
Operator: dae

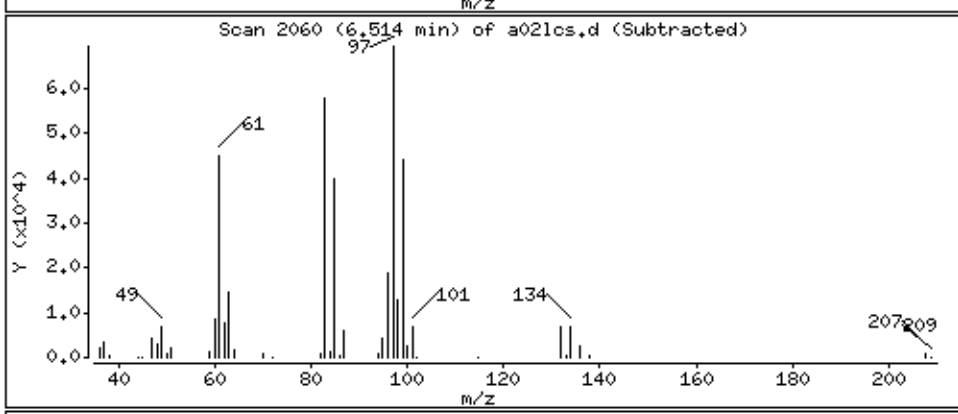
Column phase: DB-624

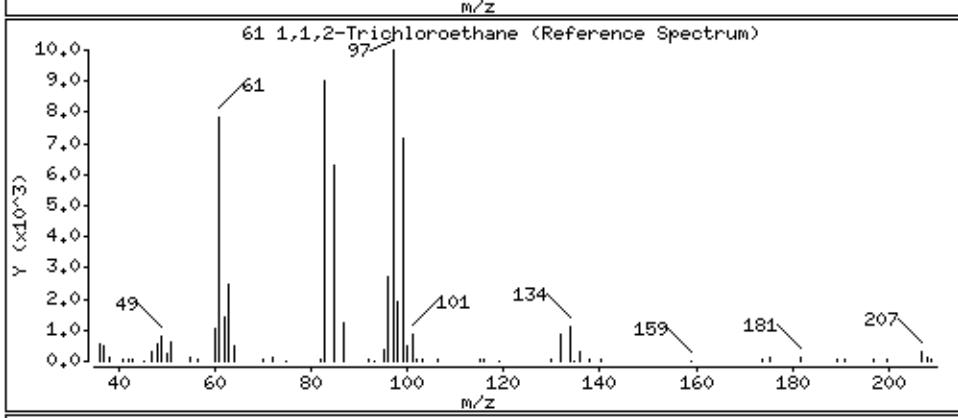
Column diameter: 0.18

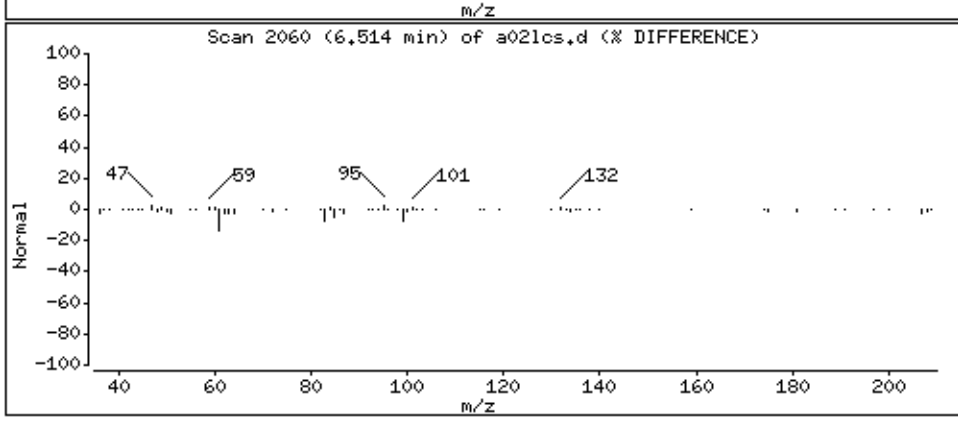
61 1,1,2-Trichloroethane

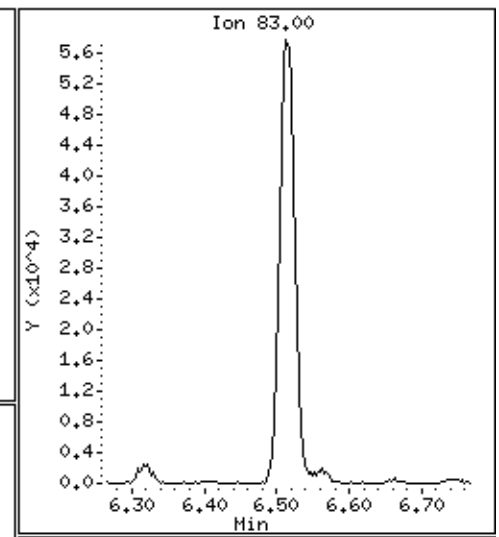
Concentration: 47.5 ppb

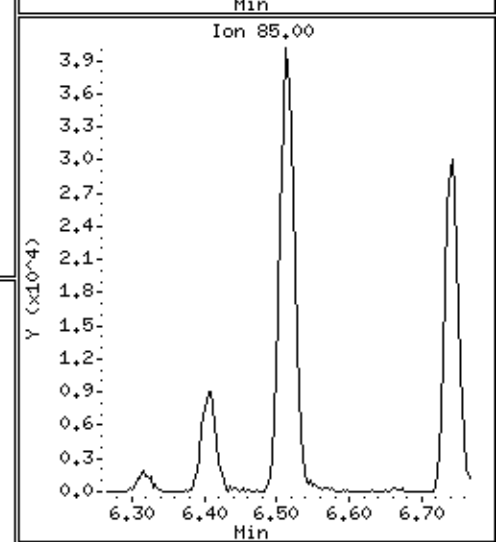


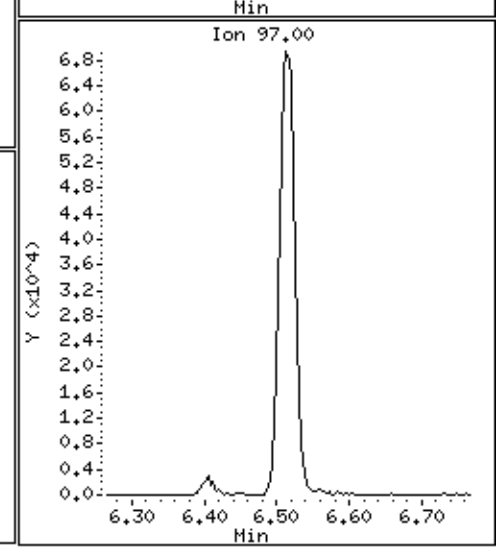












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

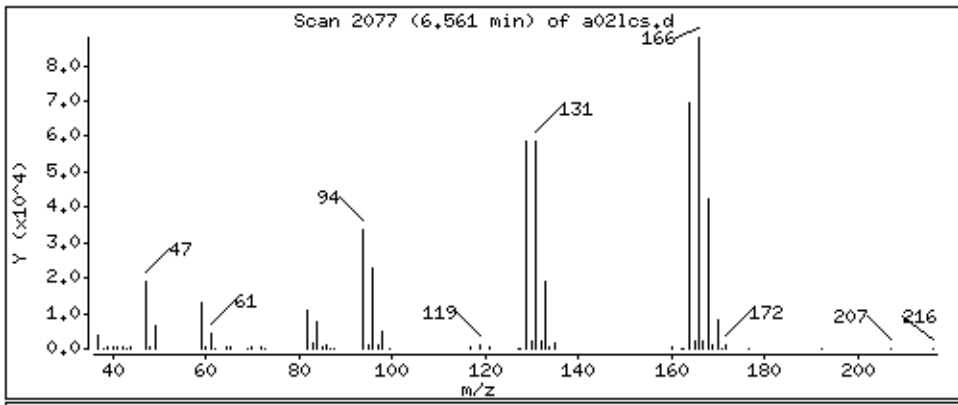
Operator: dae

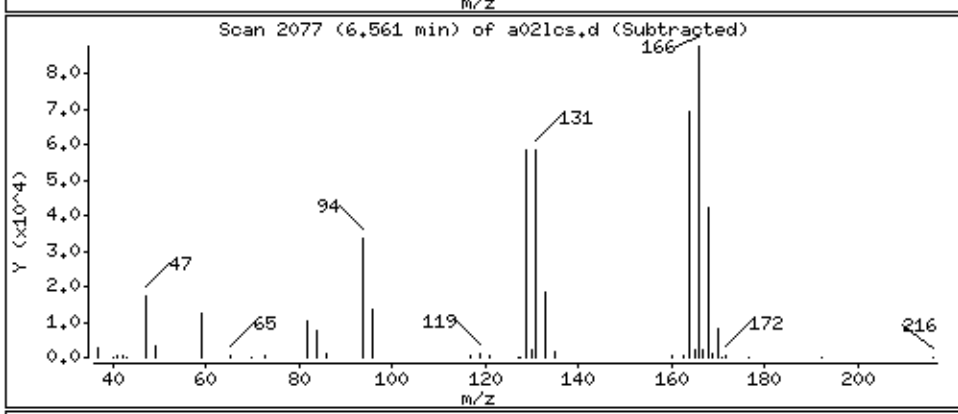
Column phase: DB-624

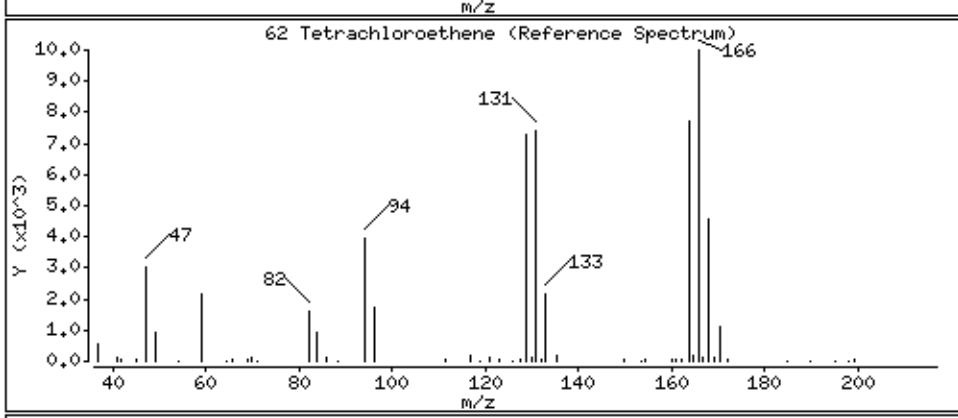
Column diameter: 0.18

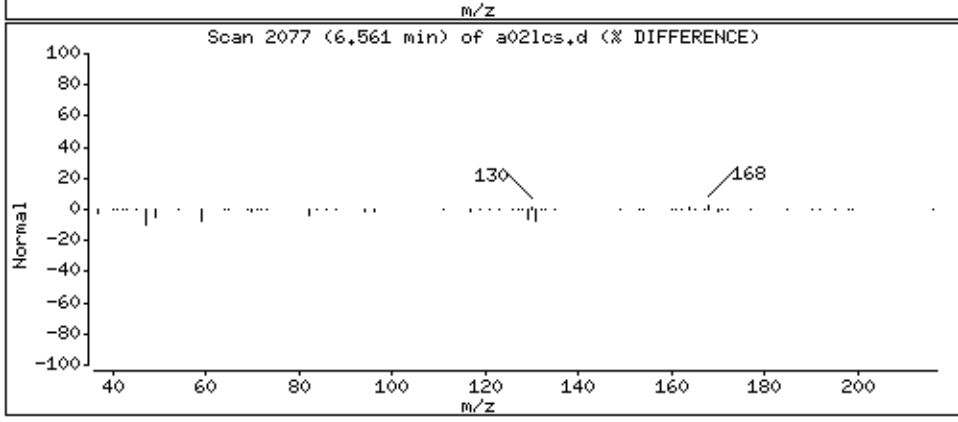
62 Tetrachloroethene

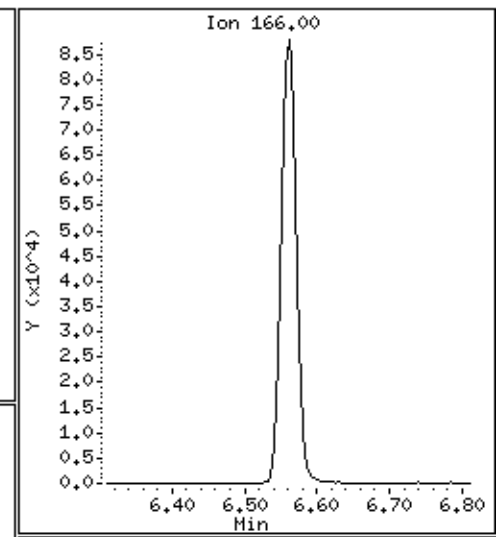
Concentration: 41.2 ppb

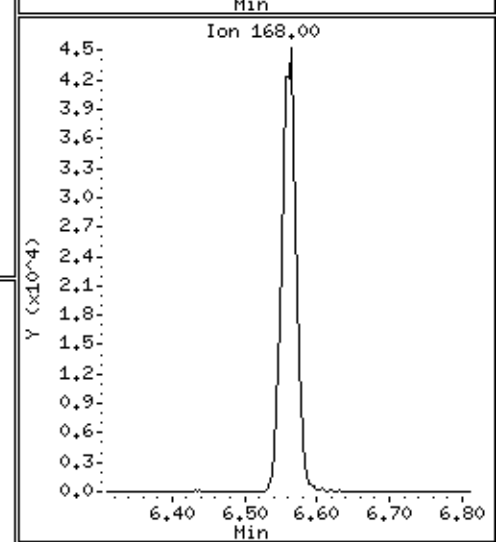


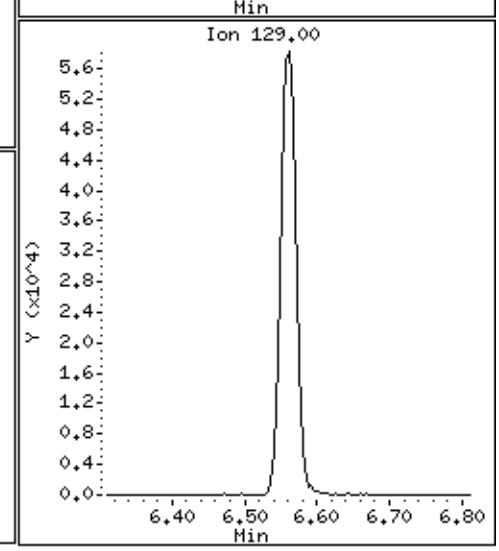












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

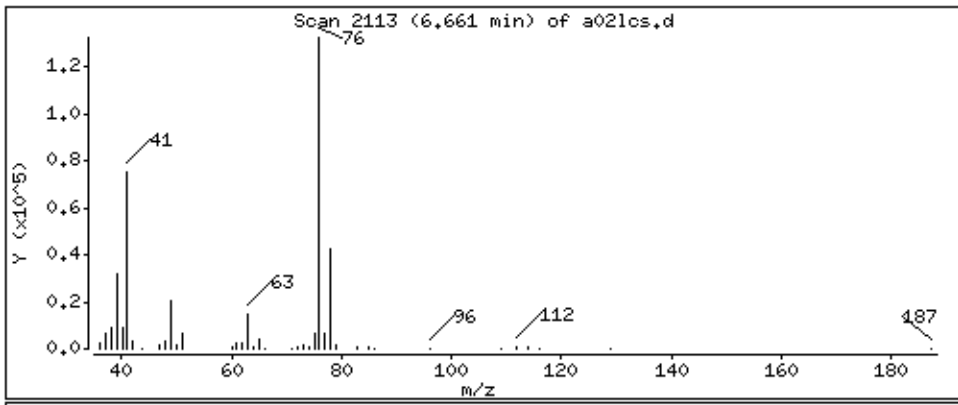
Operator: dae

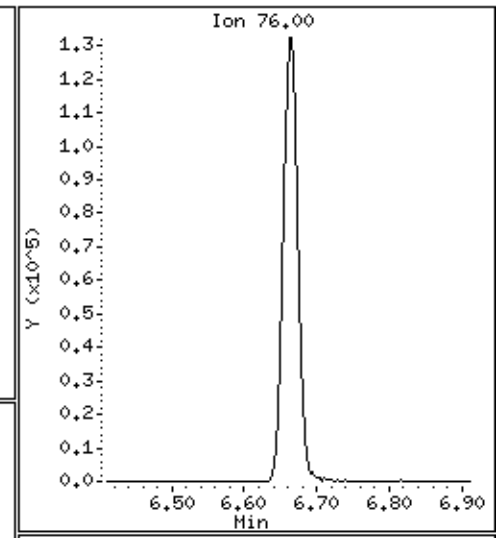
Column phase: DB-624

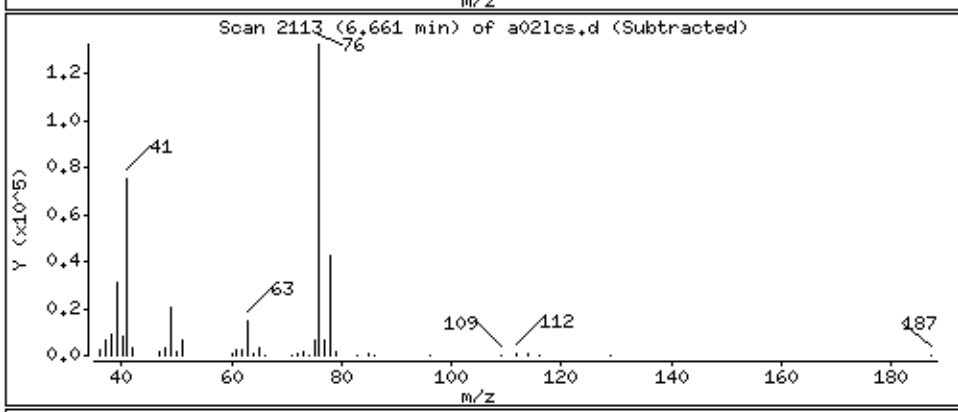
Column diameter: 0.18

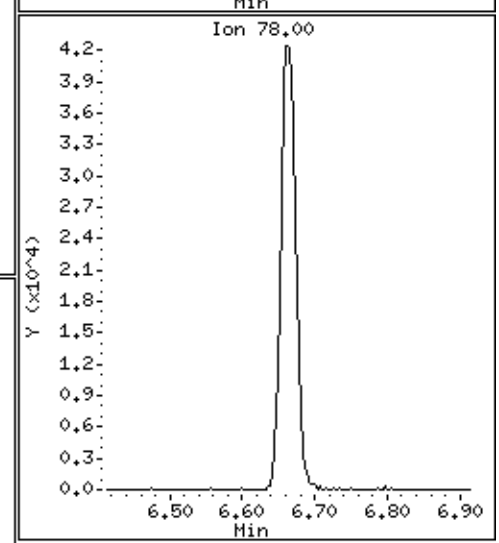
63 1,3-Dichloropropane

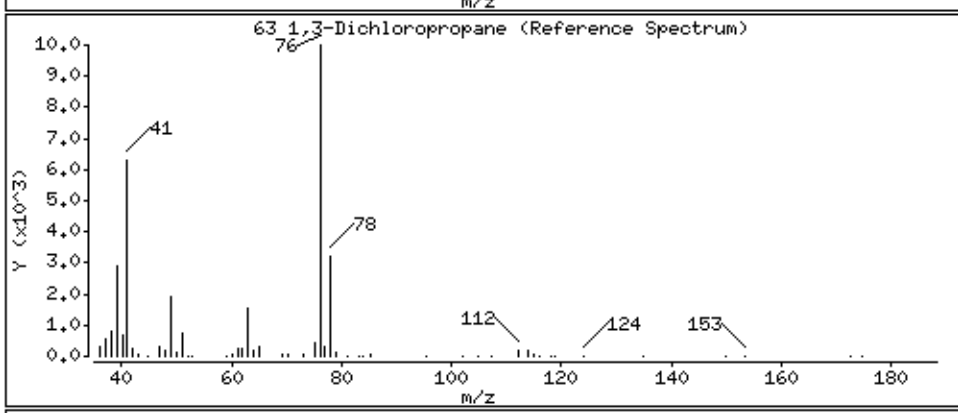
Concentration: 49.4 ppb

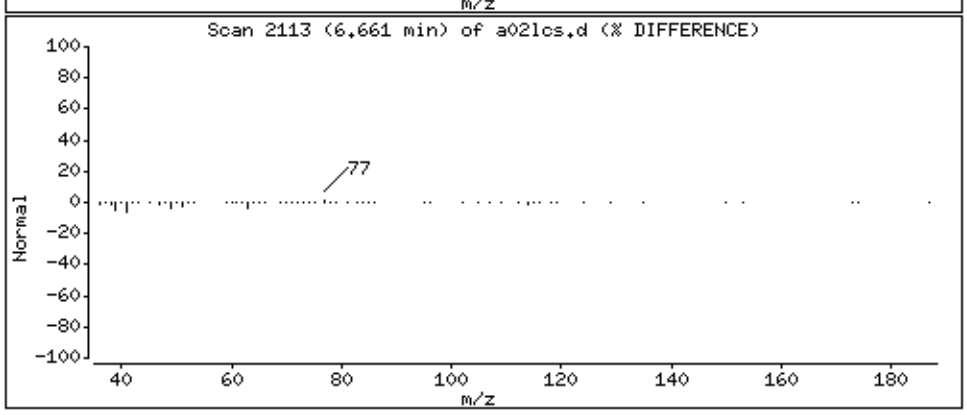












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

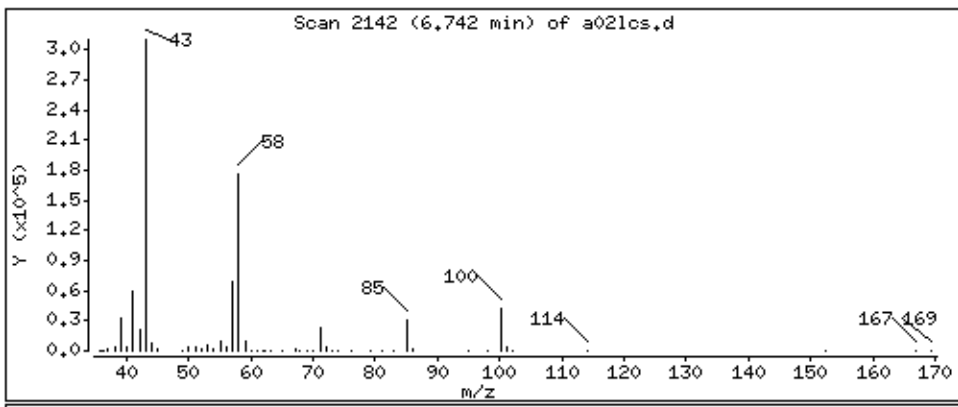
Operator: dae

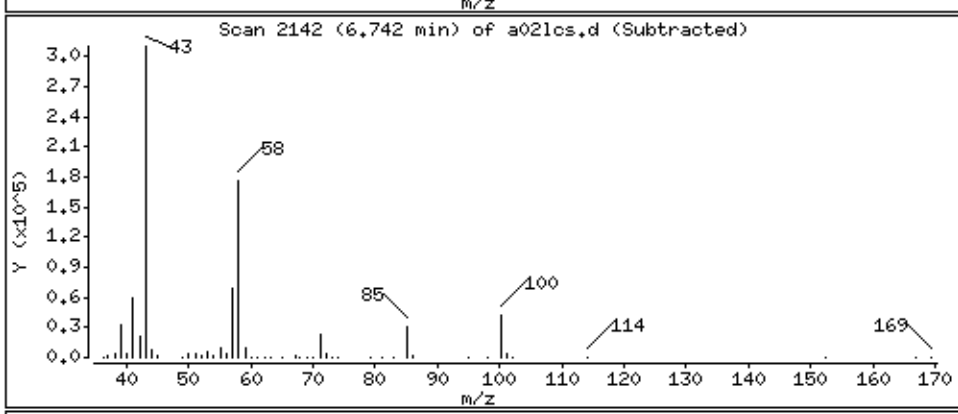
Column phase: DB-624

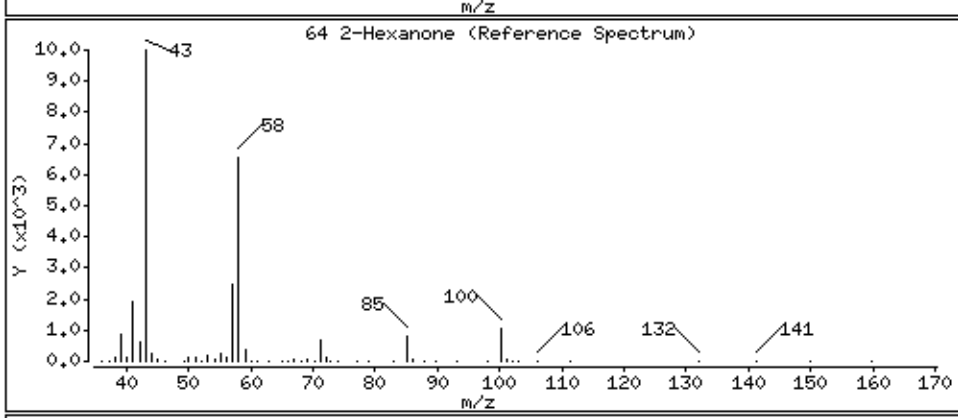
Column diameter: 0.18

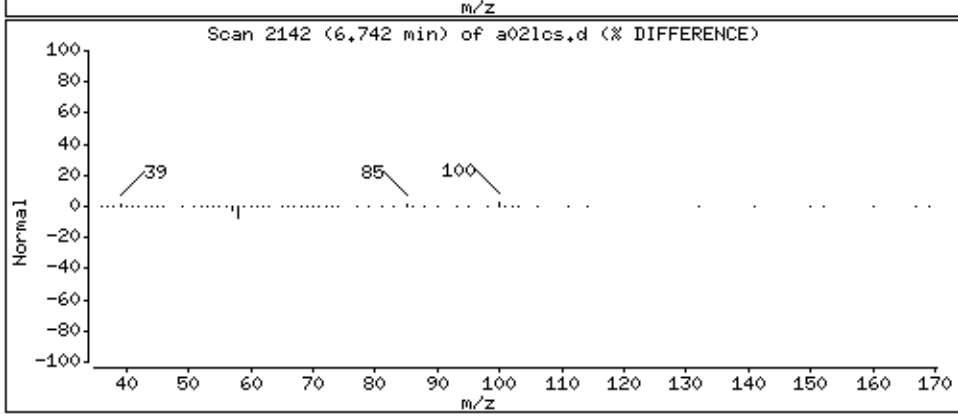
64 2-Hexanone

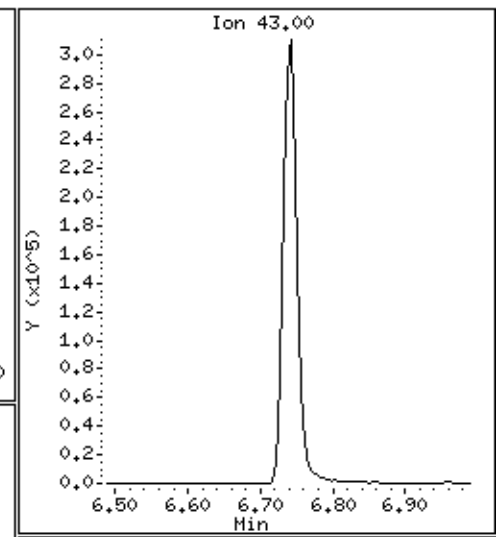
Concentration: 240 ppb

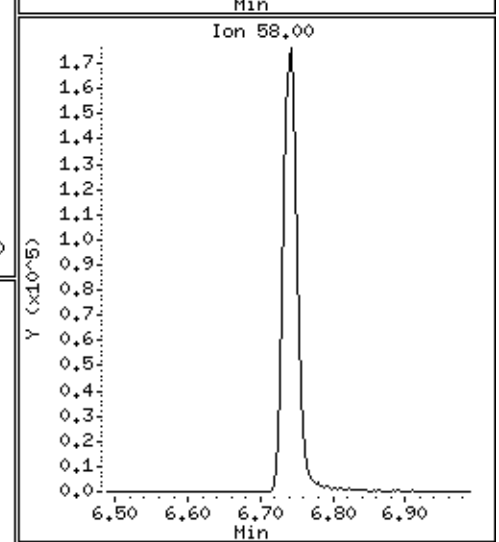


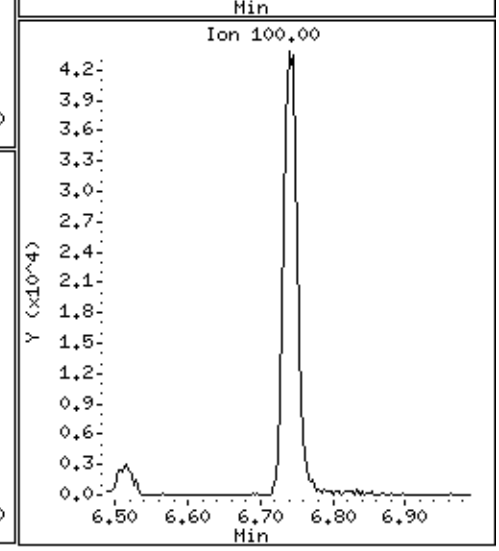












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

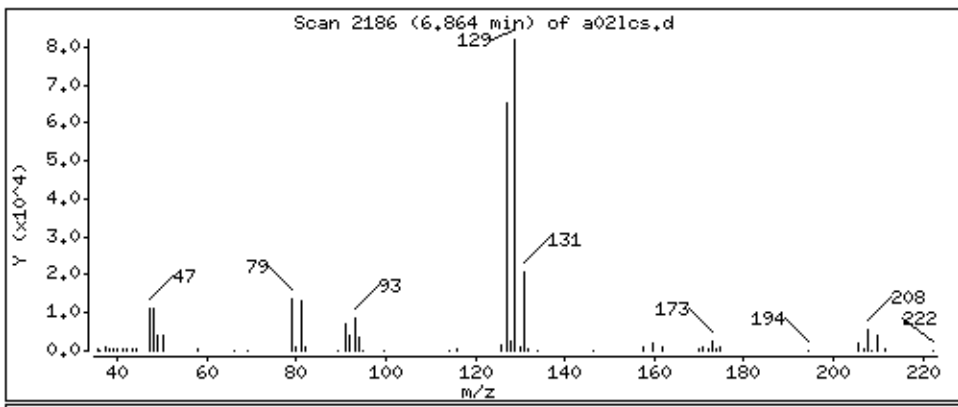
Operator: dae

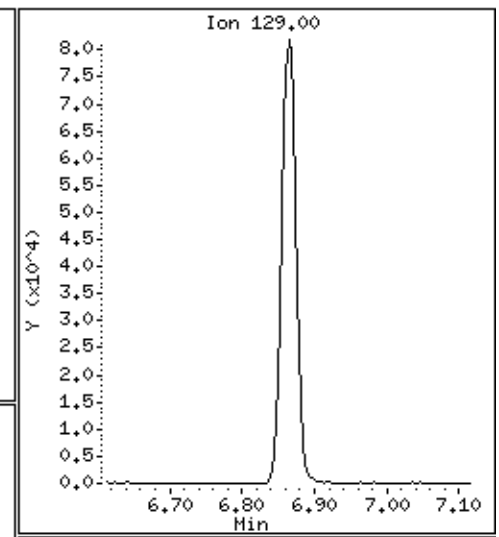
Column phase: DB-624

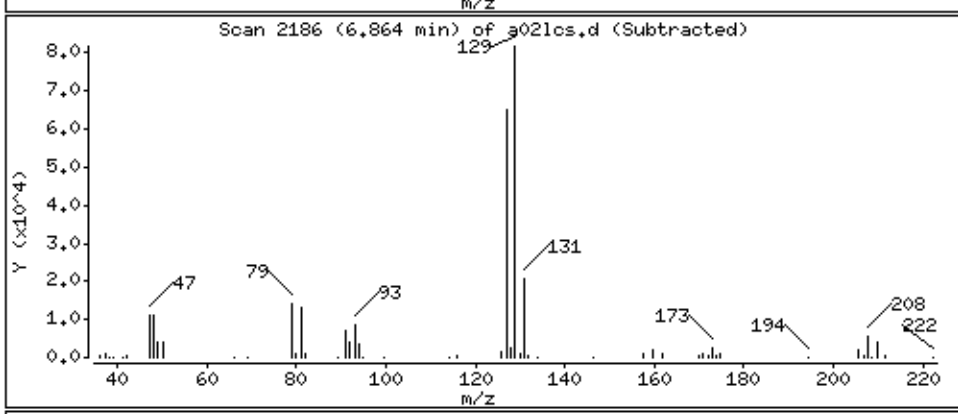
Column diameter: 0.18

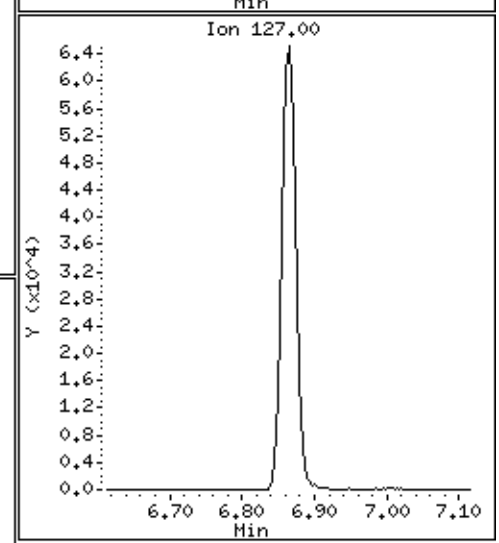
65 Dibromochloromethane

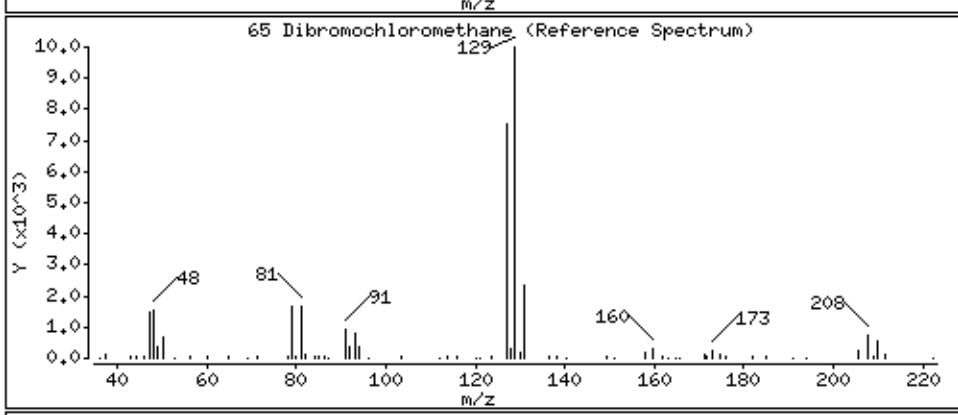
Concentration: 44.3 ppb

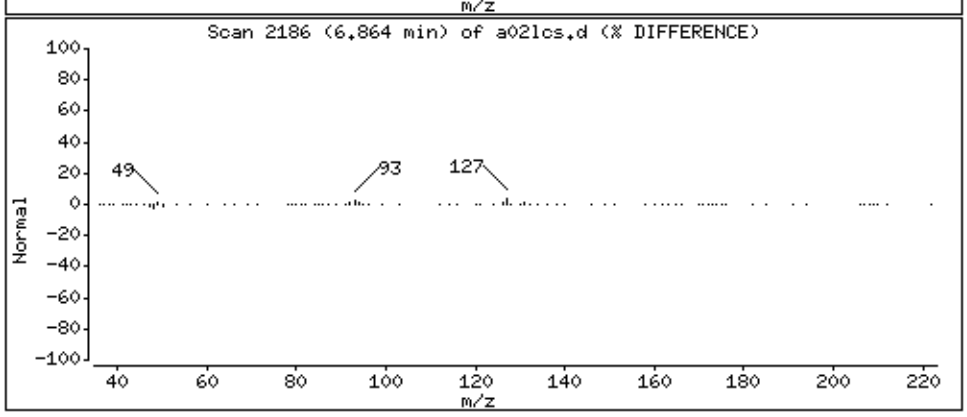












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

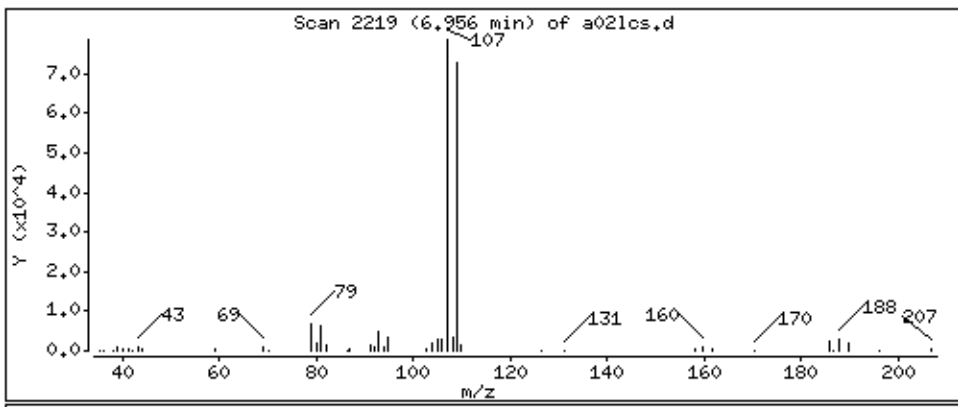
Operator: dae

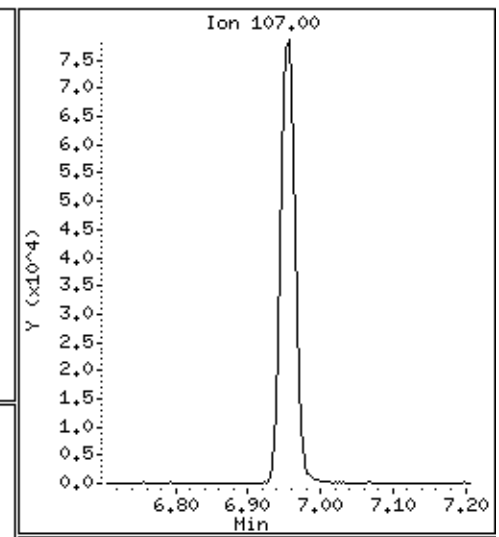
Column phase: DB-624

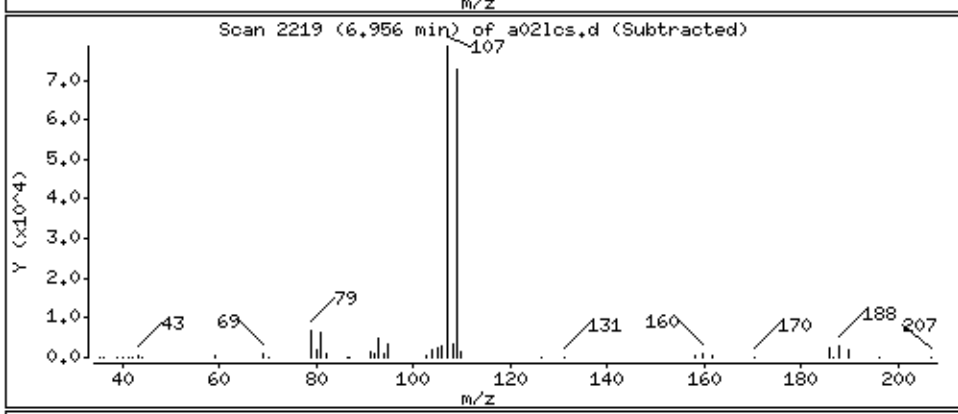
Column diameter: 0.18

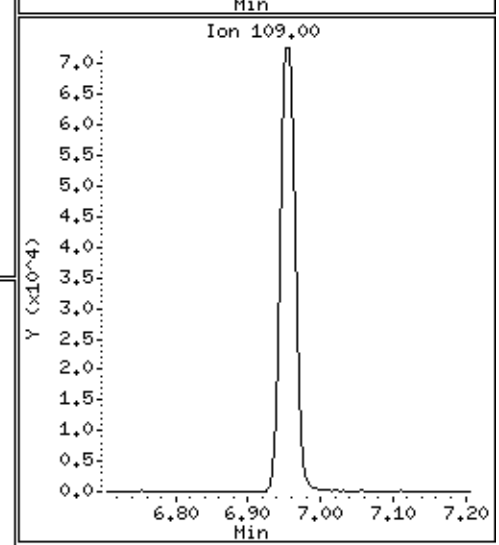
66 1,2-Dibromoethane

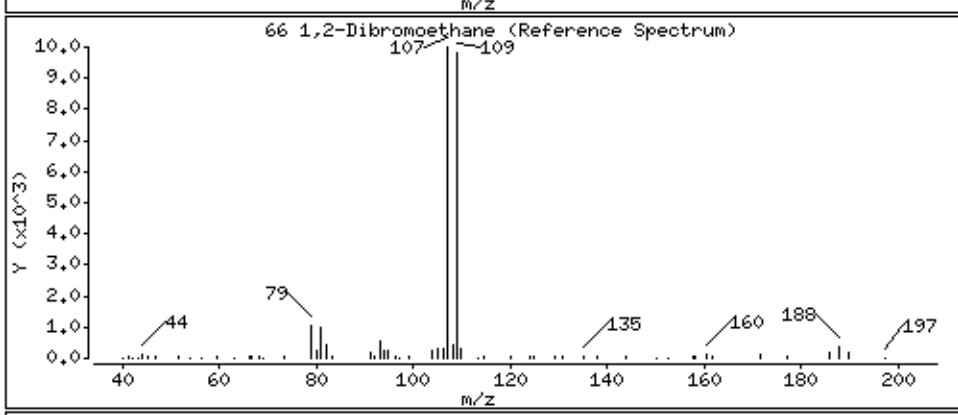
Concentration: 48.3 ppb

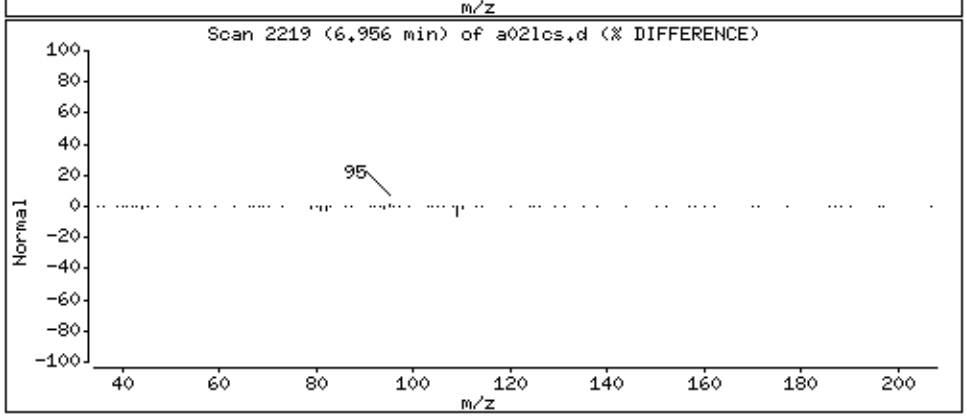












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

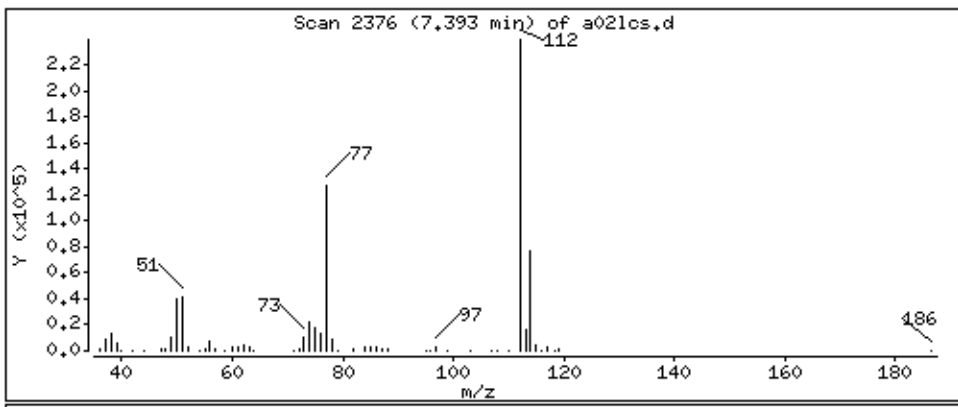
Operator: dae

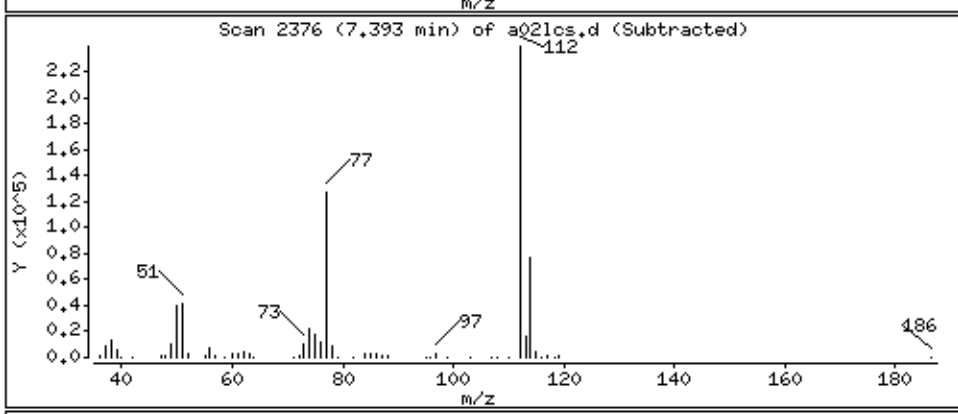
Column phase: DB-624

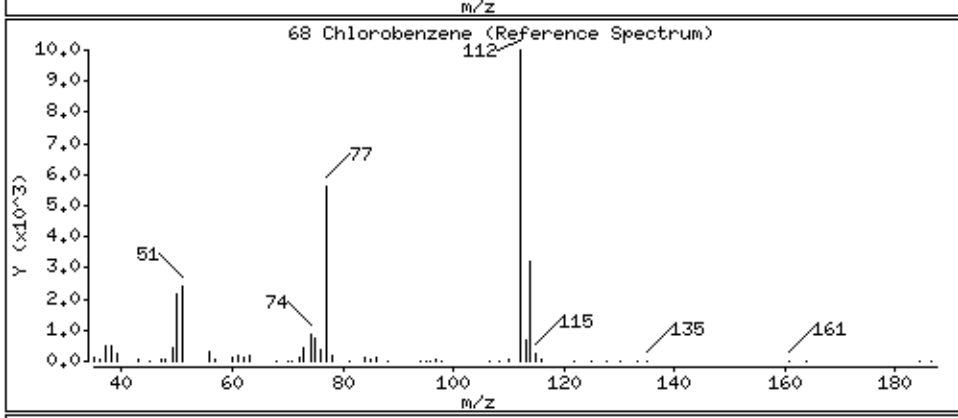
Column diameter: 0.18

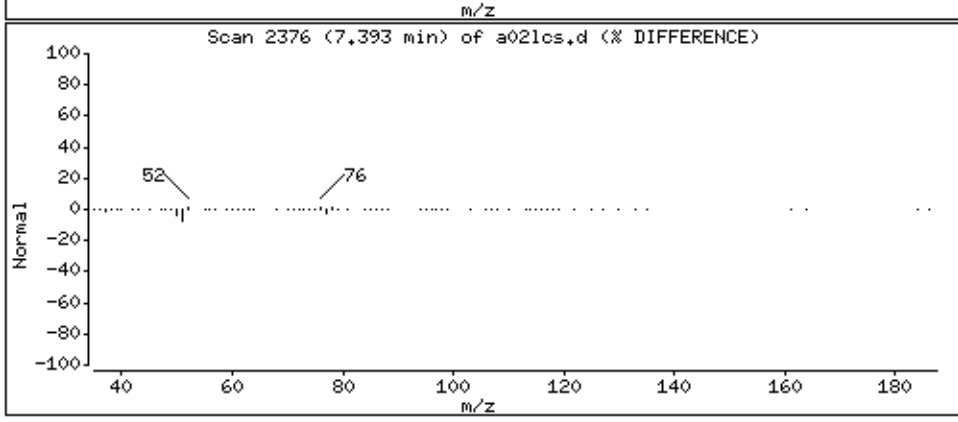
68 Chlorobenzene

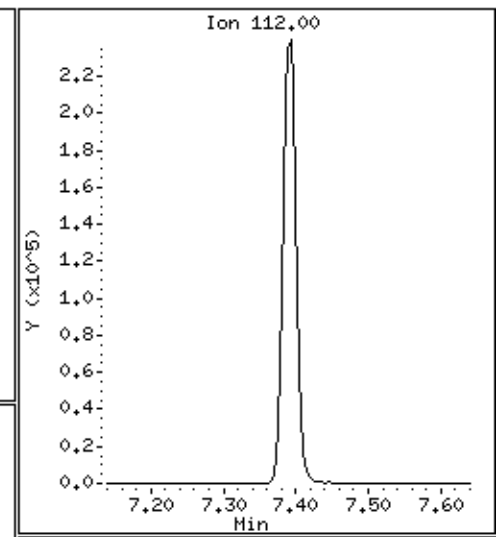
Concentration: 46.8 ppb

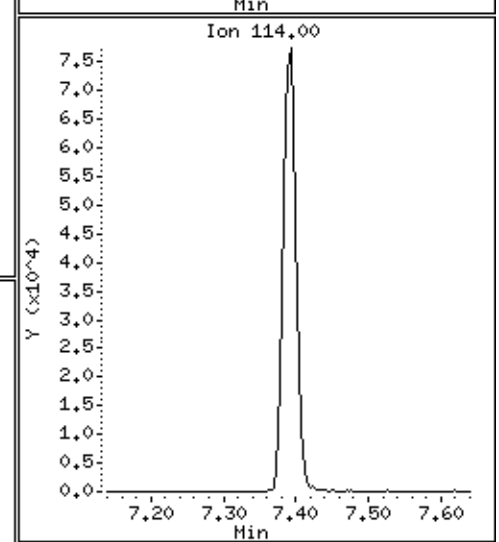


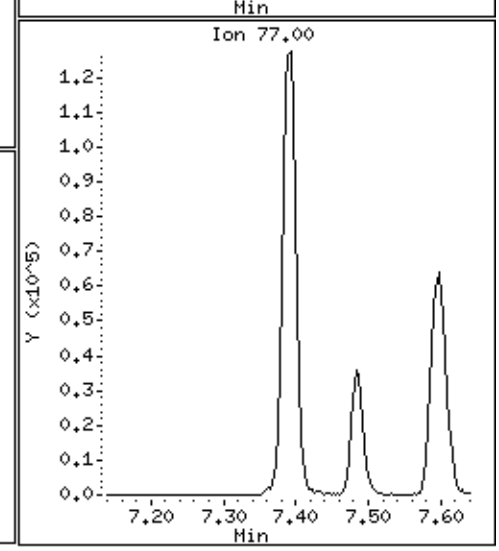












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

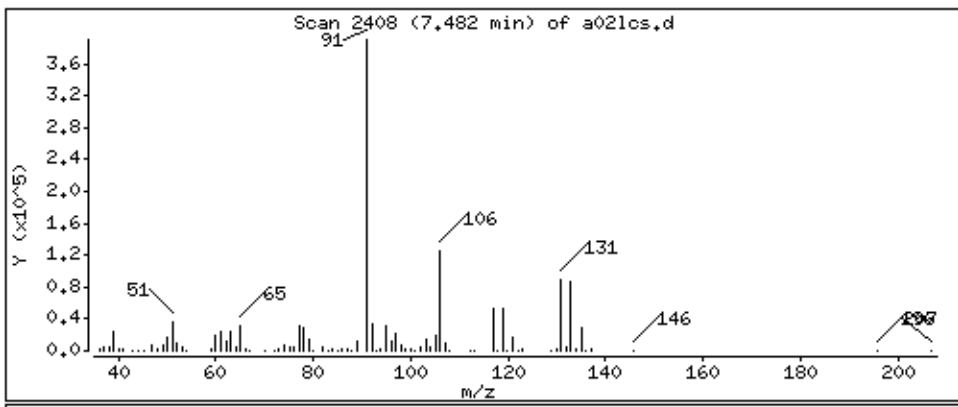
Operator: dae

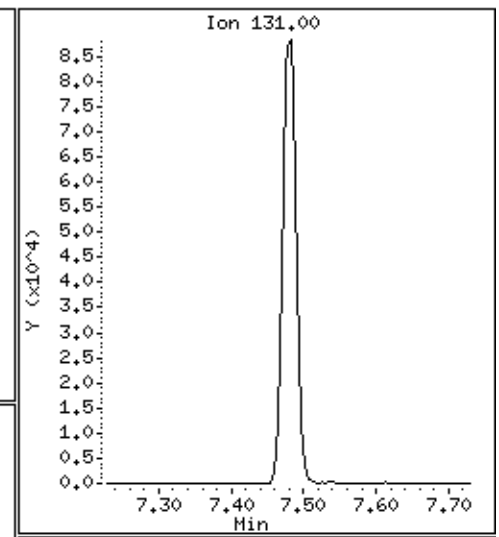
Column phase: DB-624

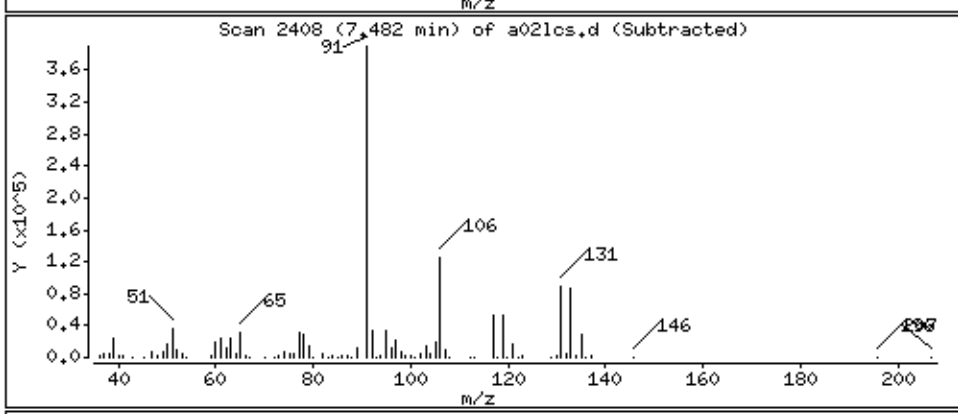
Column diameter: 0.18

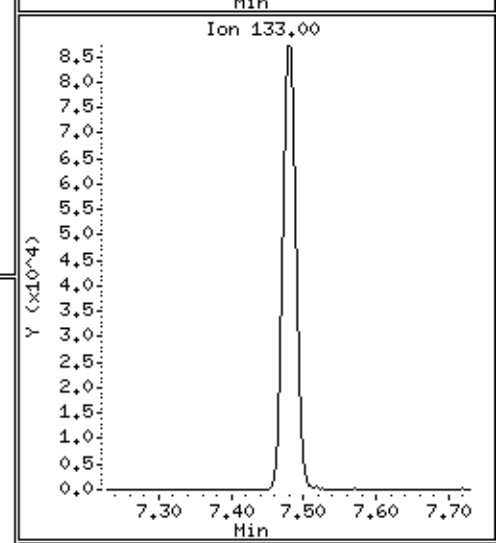
69 1,1,1,2-Tetrachloroethane

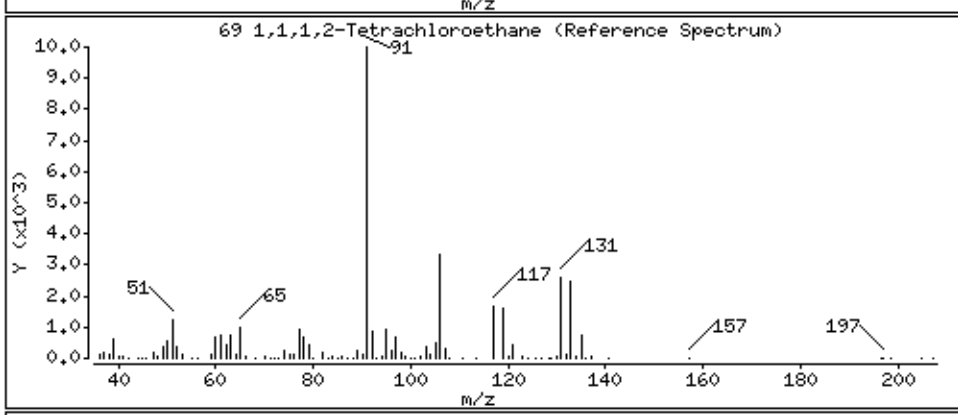
Concentration: 47.0 ppb

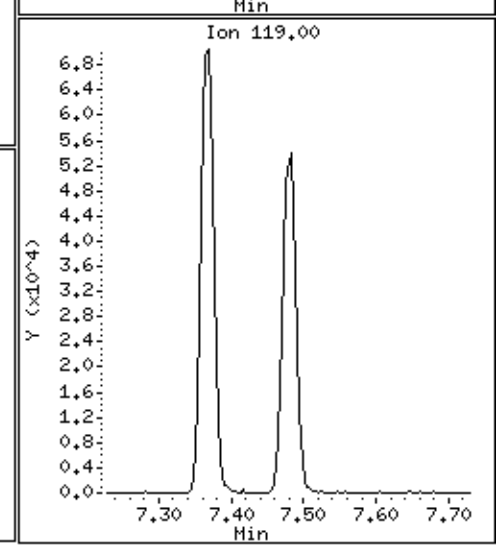


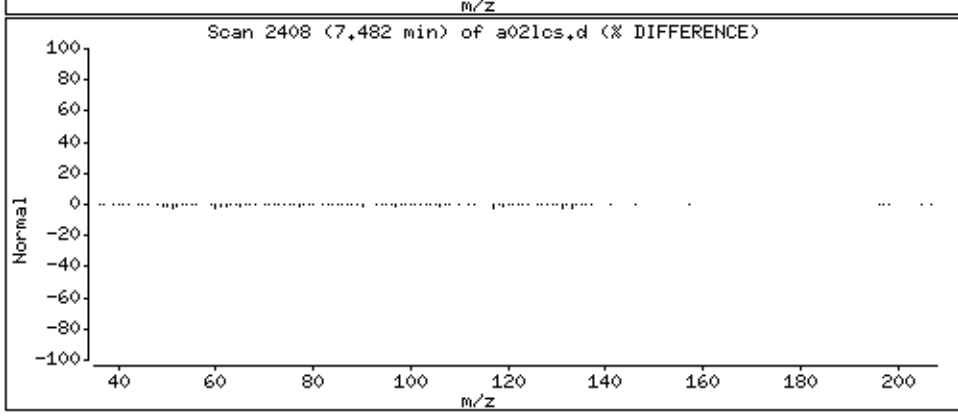












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

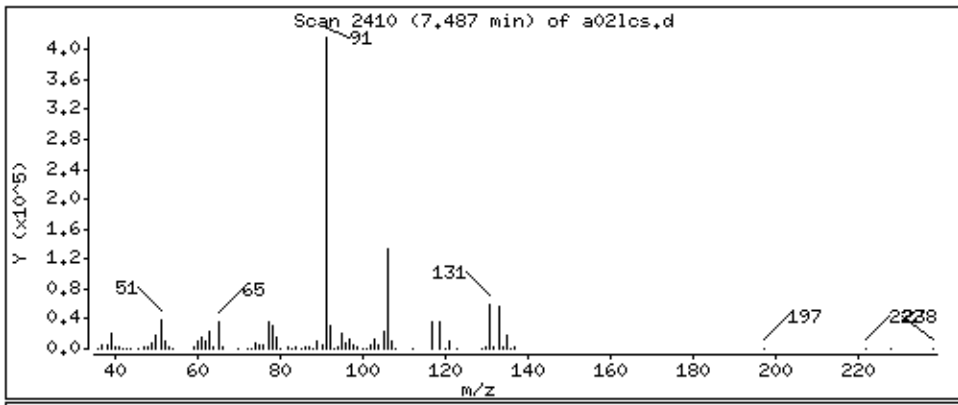
Operator: dae

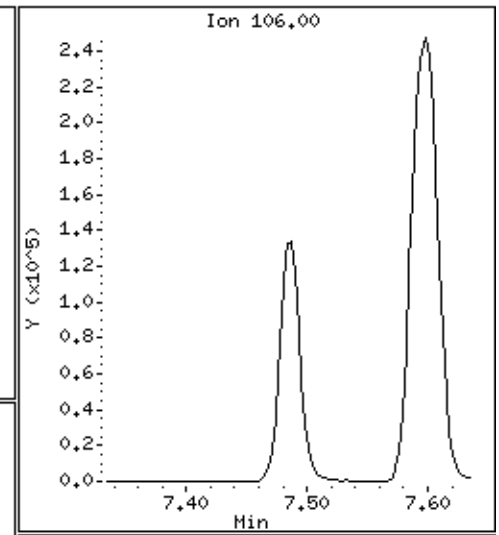
Column phase: DB-624

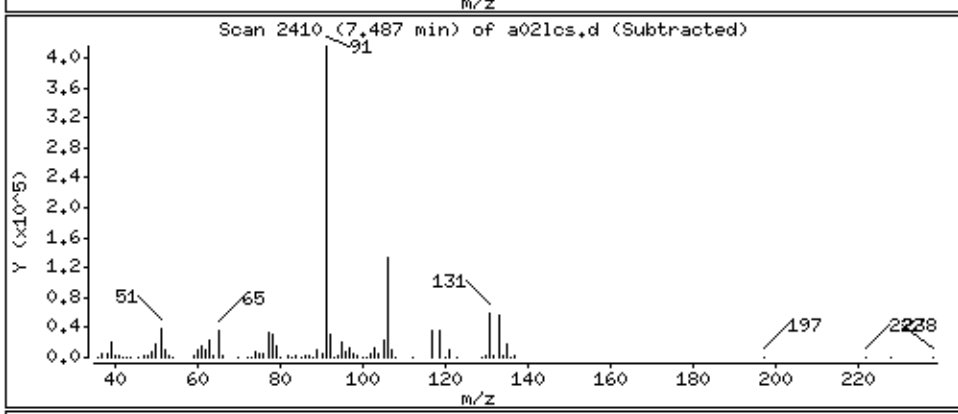
Column diameter: 0.18

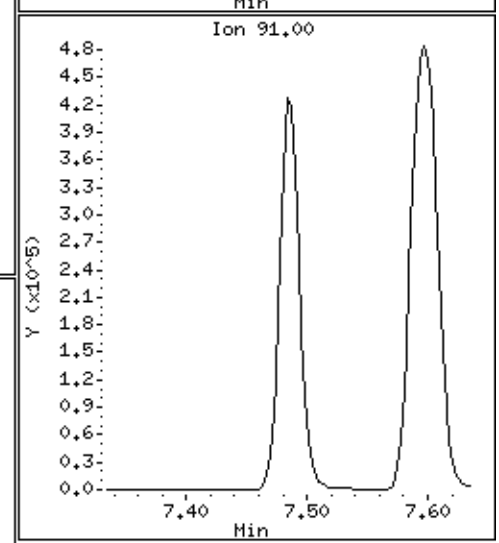
70 Ethylbenzene

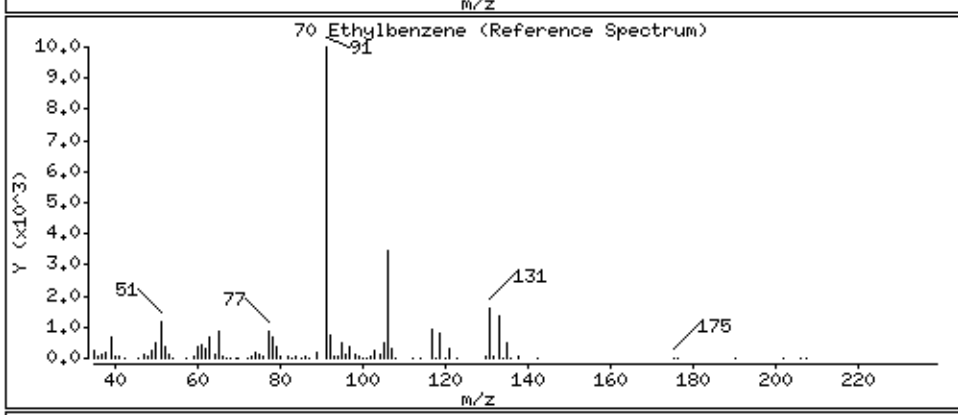
Concentration: 48.4 ppb

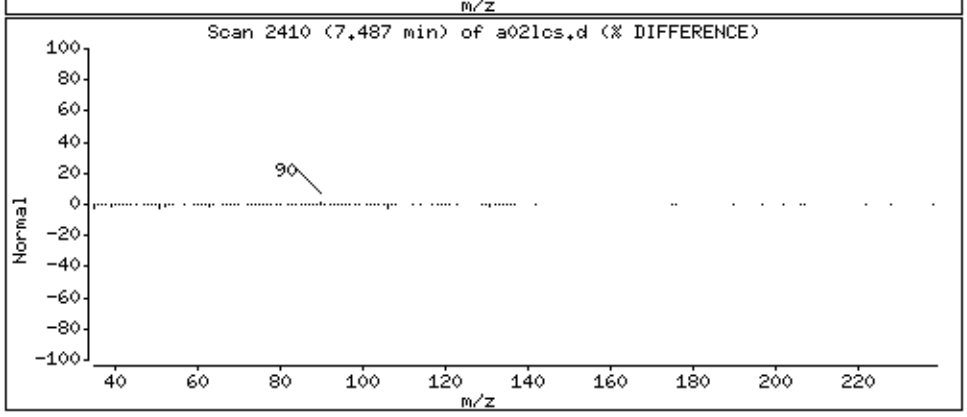












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

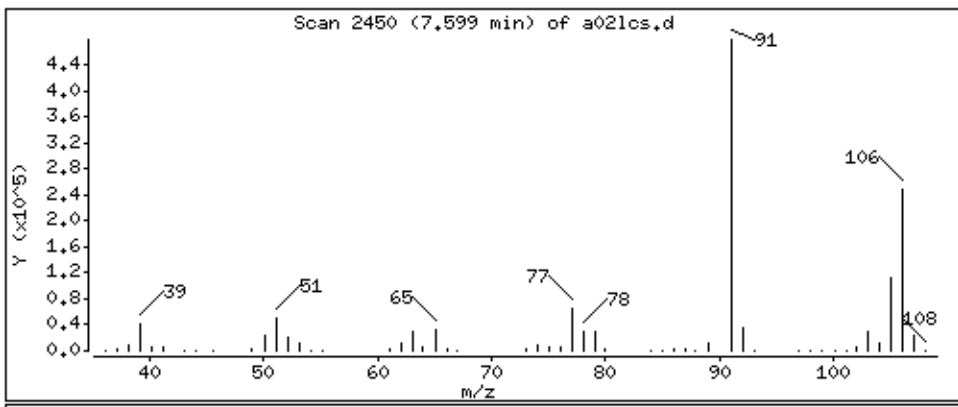
Operator: dae

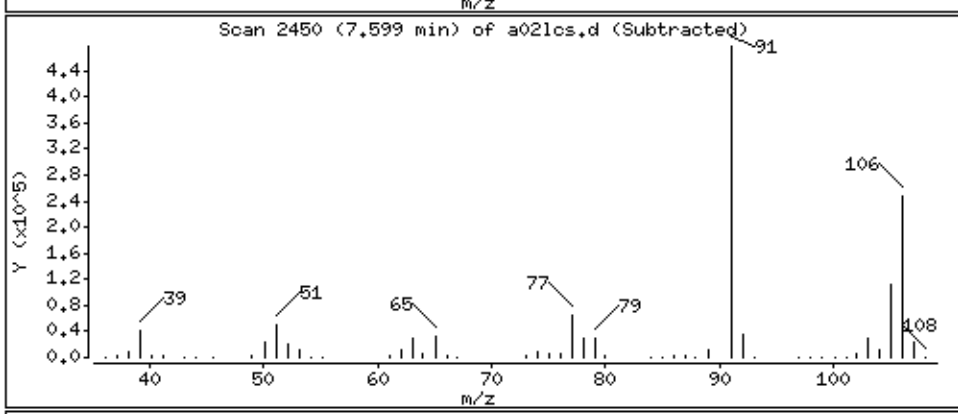
Column phase: DB-624

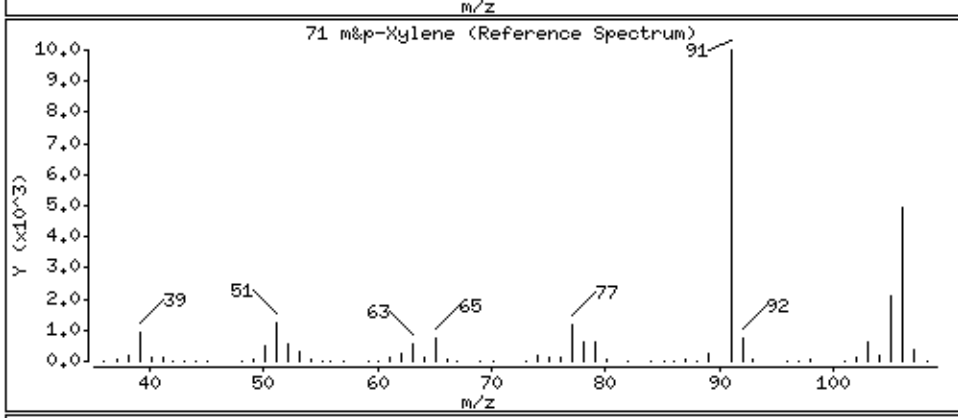
Column diameter: 0.18

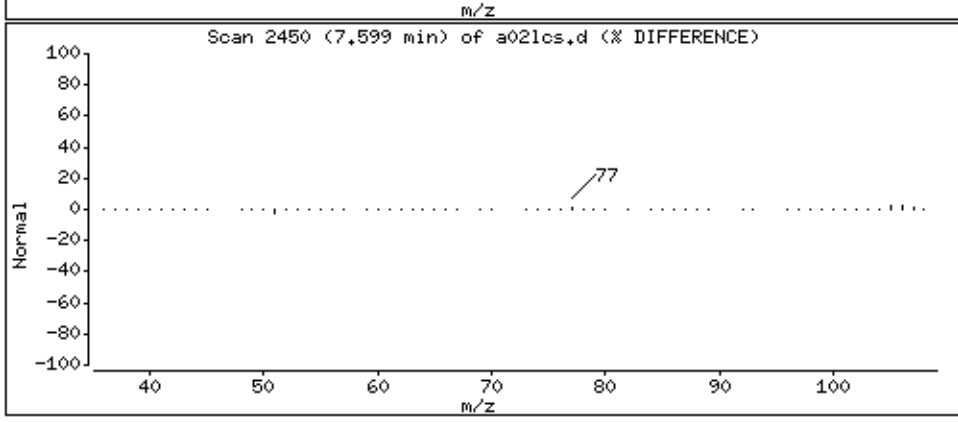
71 m&p-Xylene

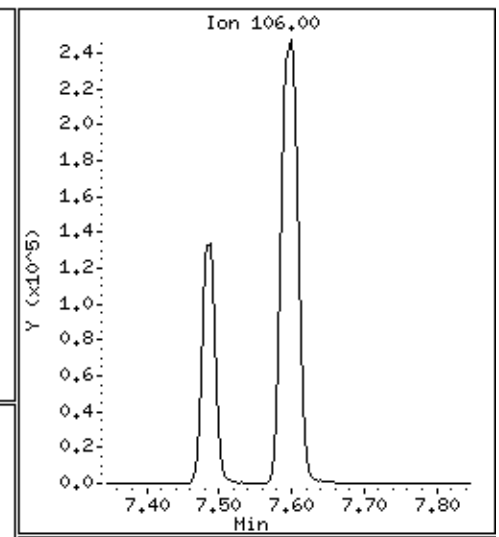
Concentration: 97.2 ppb

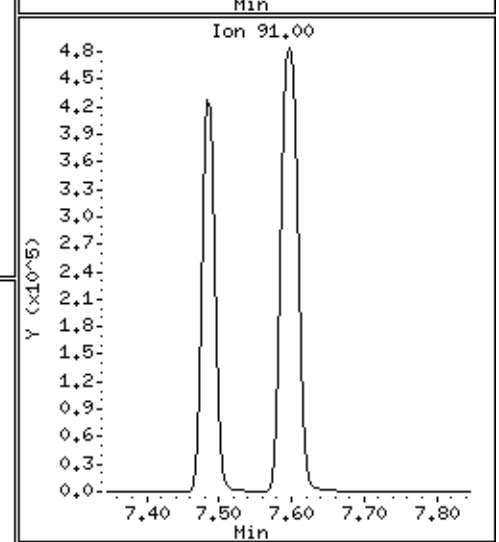


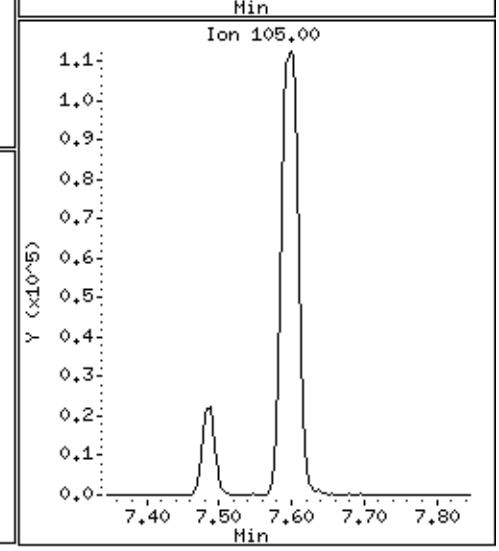












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

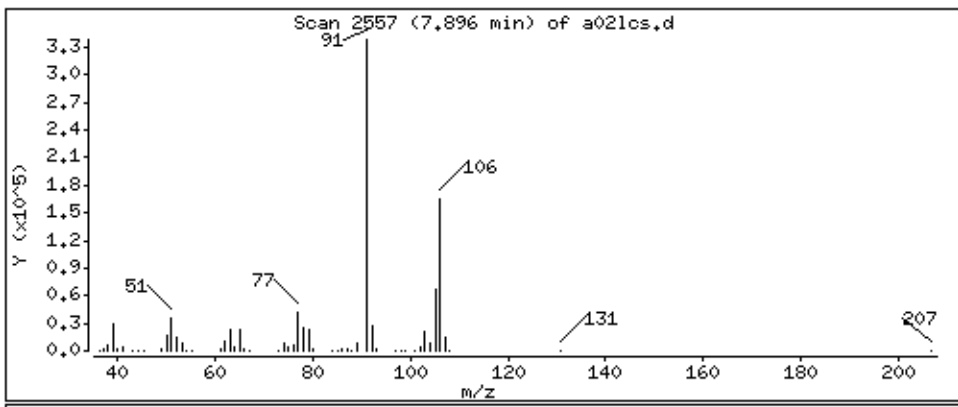
Operator: dae

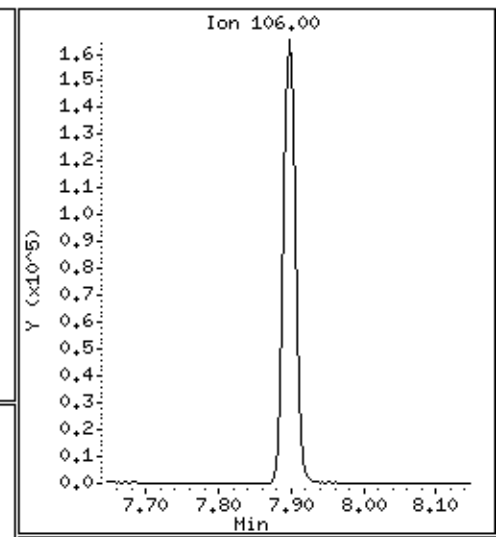
Column phase: DB-624

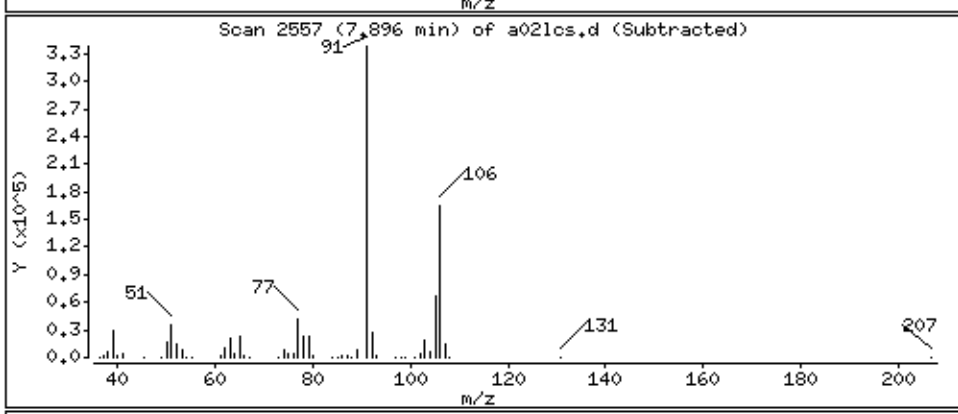
Column diameter: 0.18

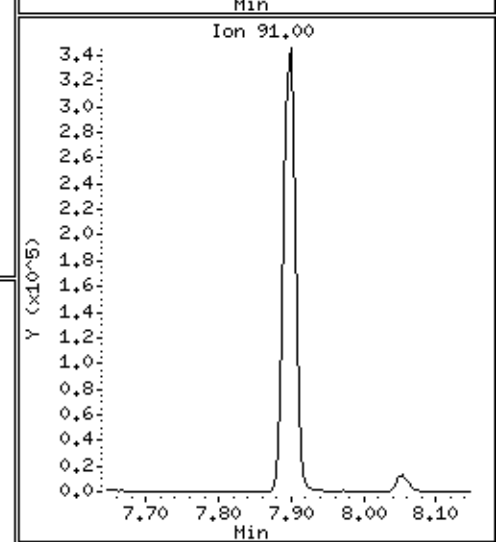
72 o-Xylene

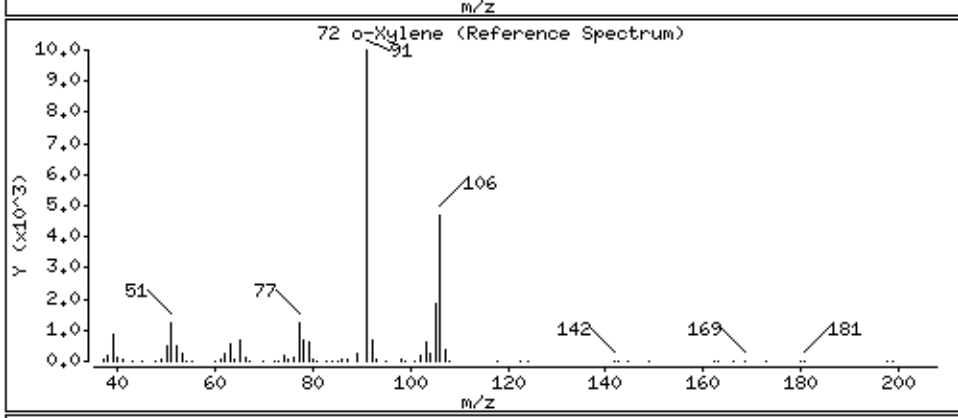
Concentration: 49.3 ppb

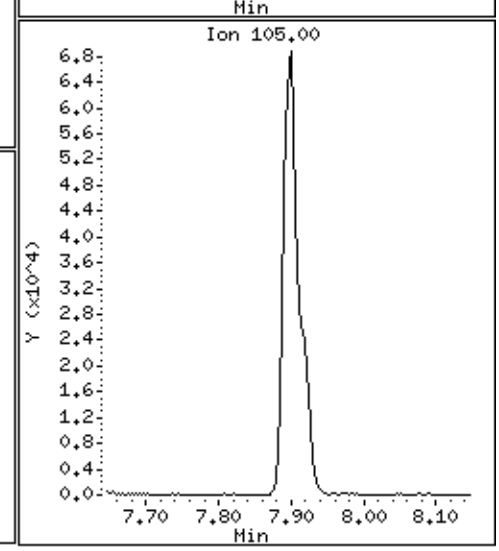


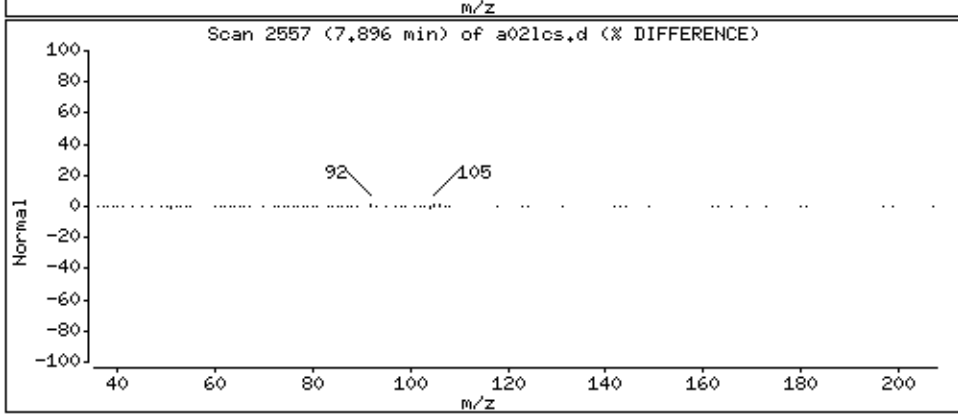












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

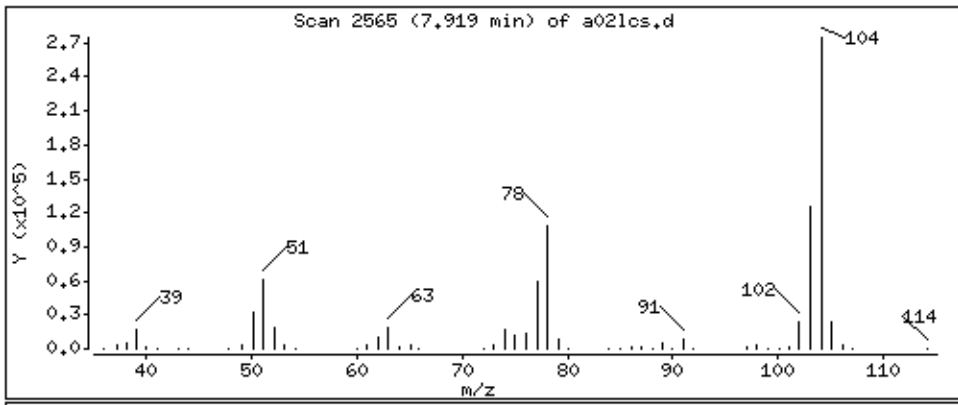
Operator: dae

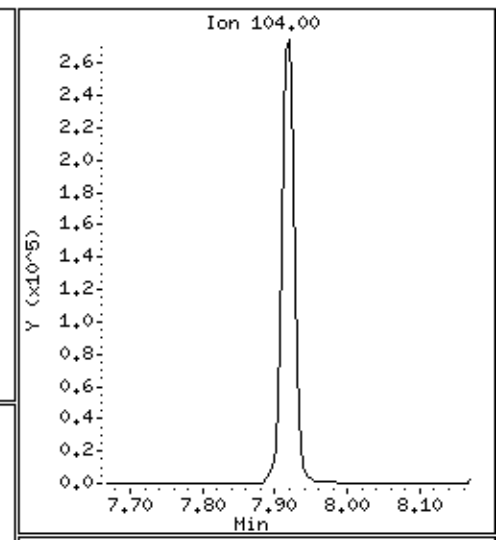
Column phase: DB-624

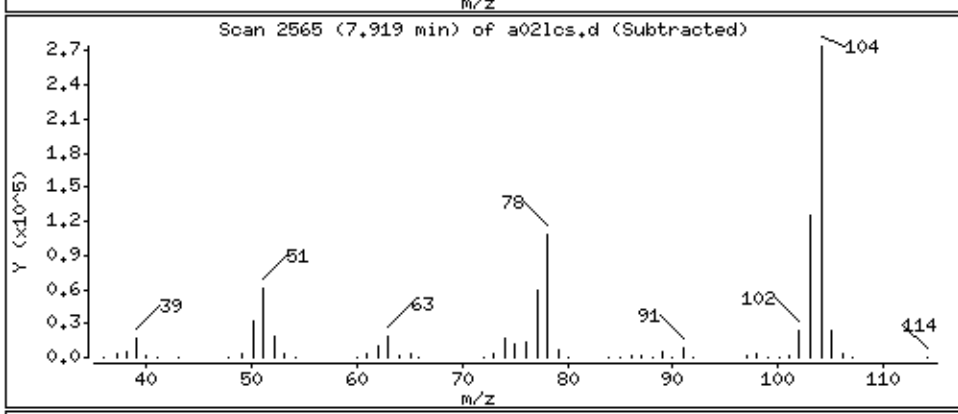
Column diameter: 0.18

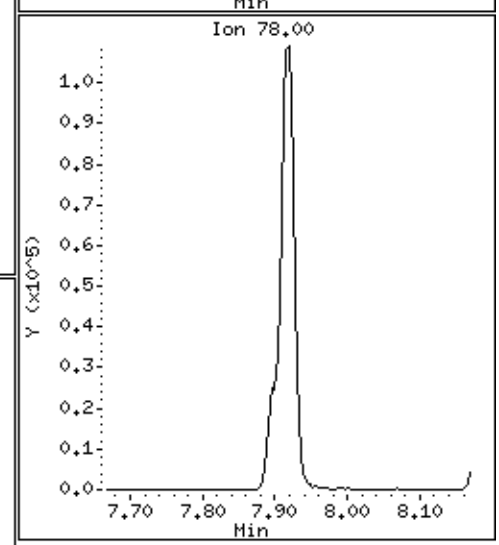
73 Styrene

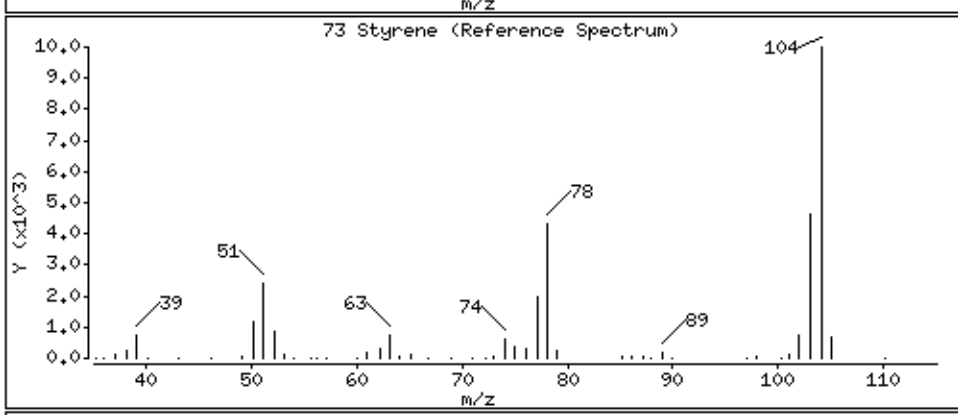
Concentration: 49.7 ppb

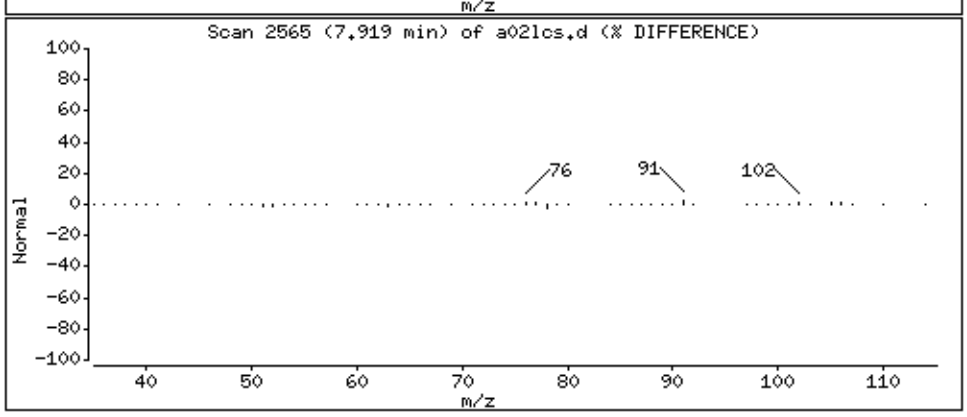












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

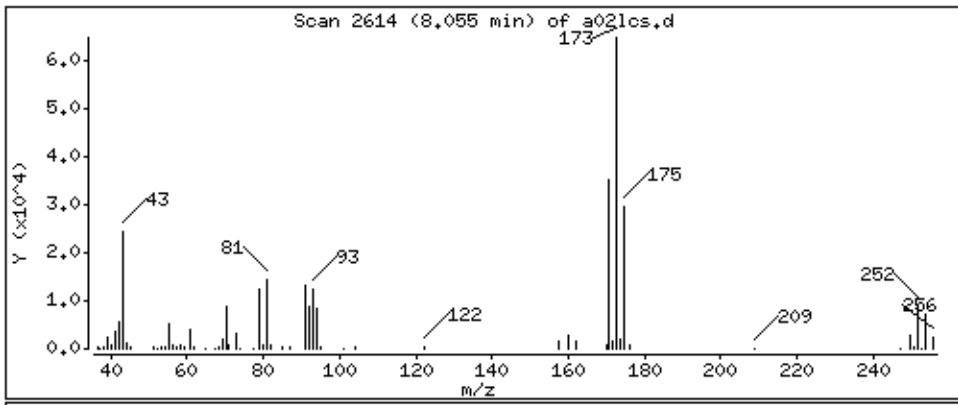
Operator: dae

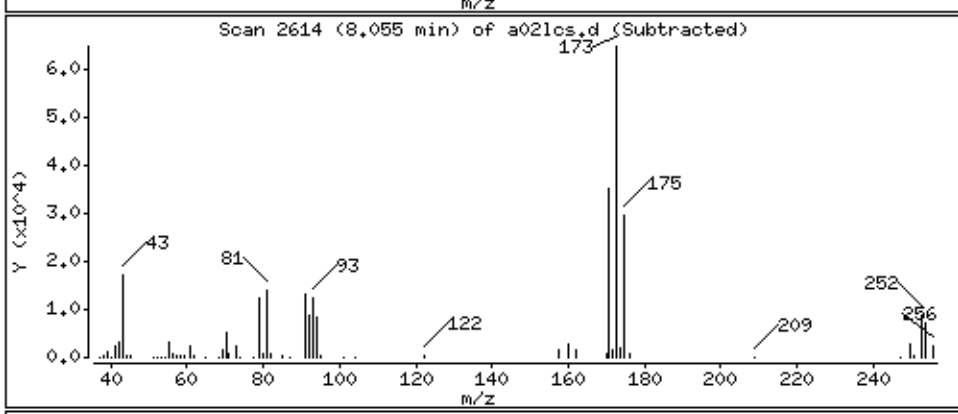
Column phase: DB-624

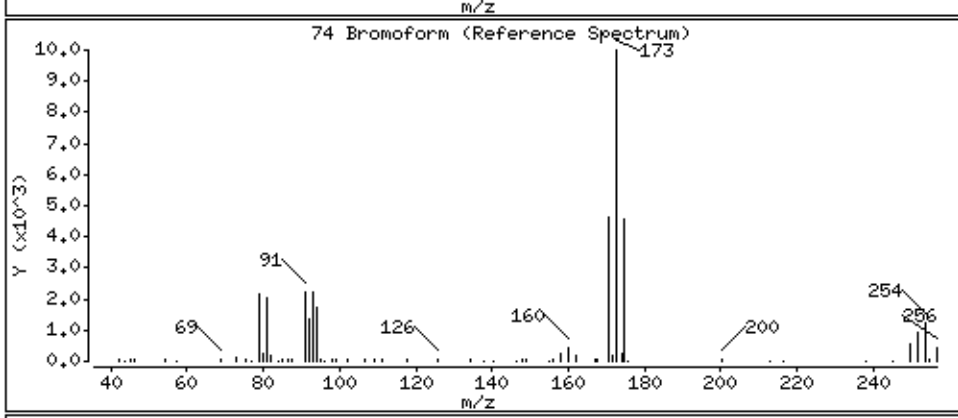
Column diameter: 0.18

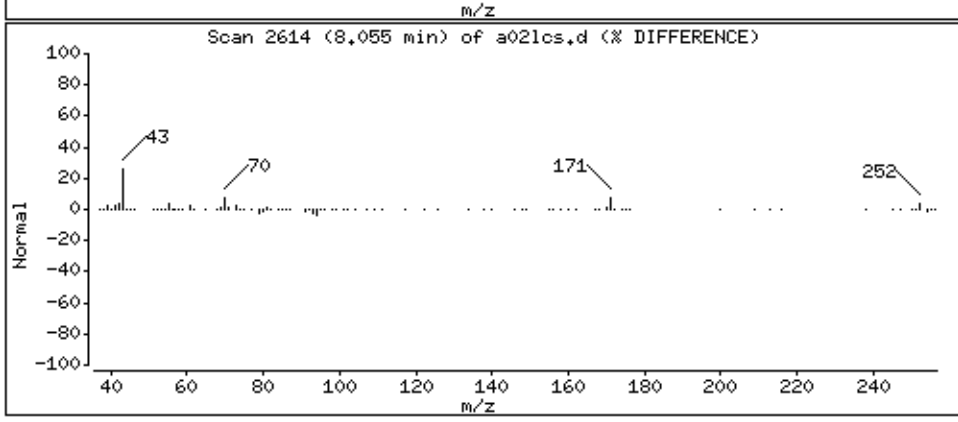
74 Bromoform

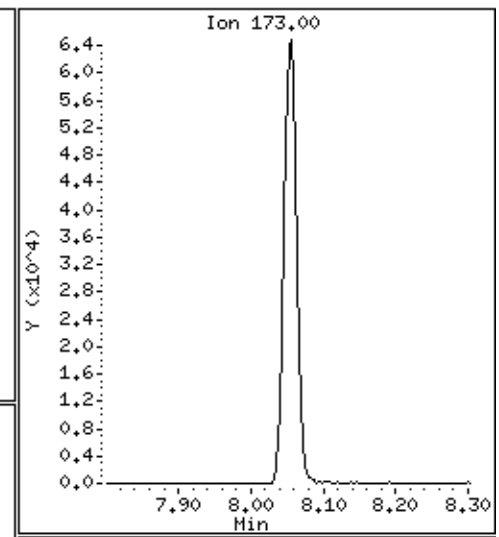
Concentration: 39.7 ppb

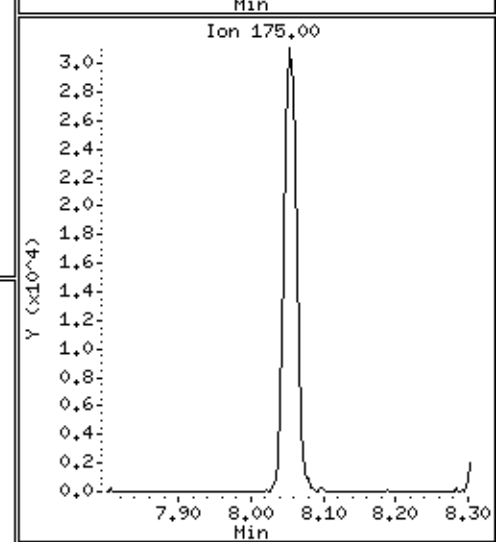


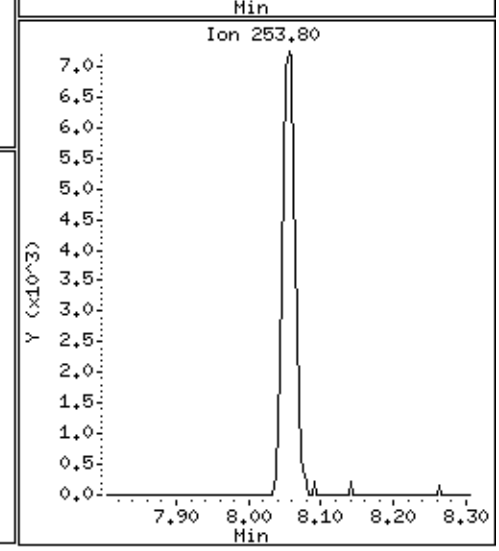












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

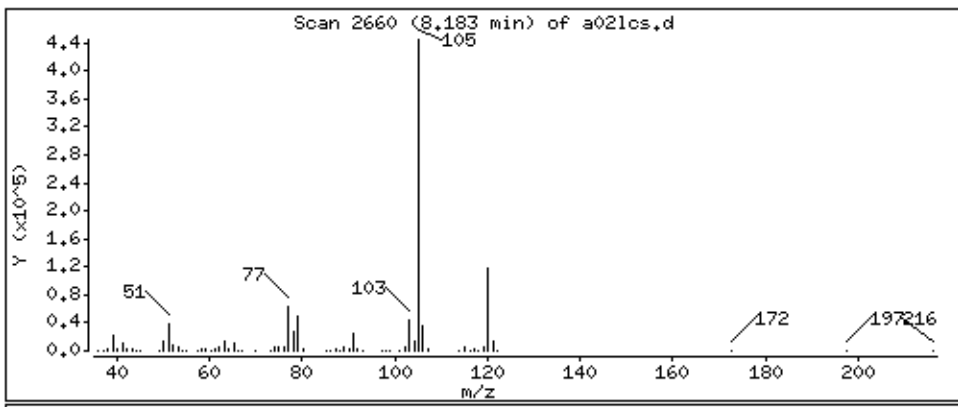
Operator: dae

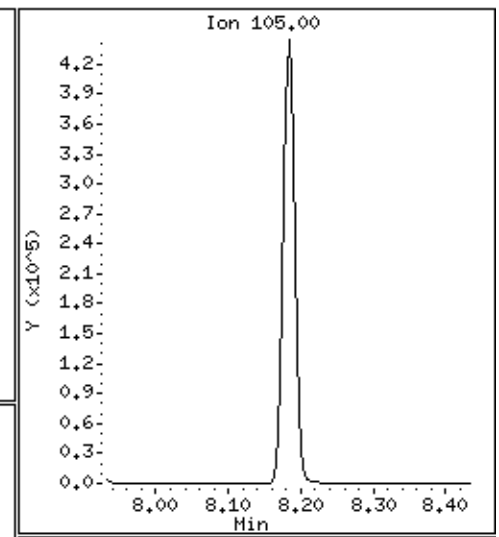
Column phase: DB-624

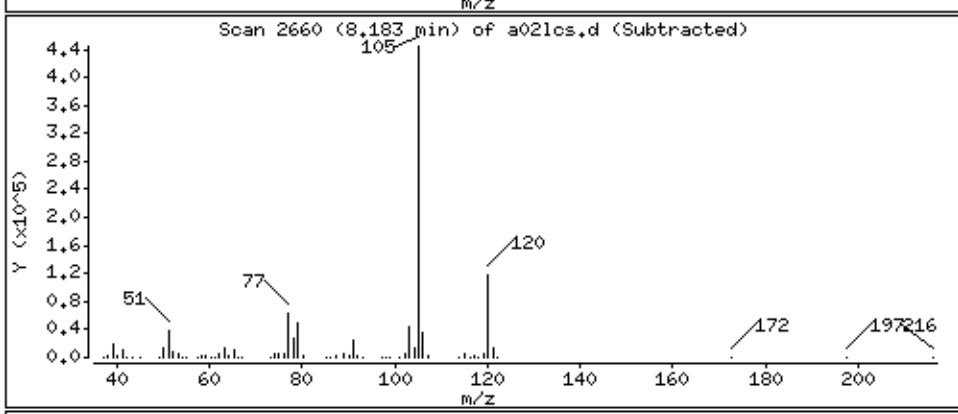
Column diameter: 0.18

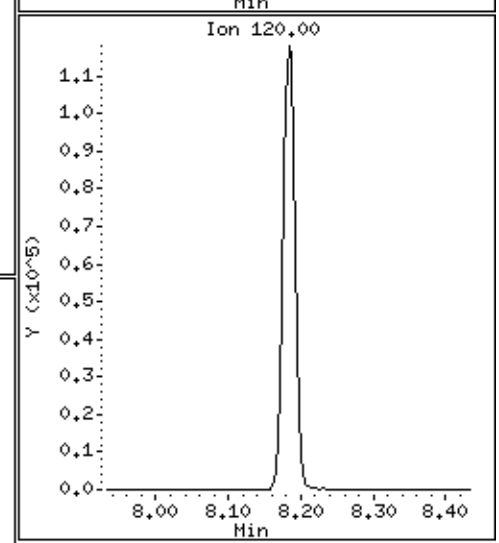
75 Isopropylbenzene

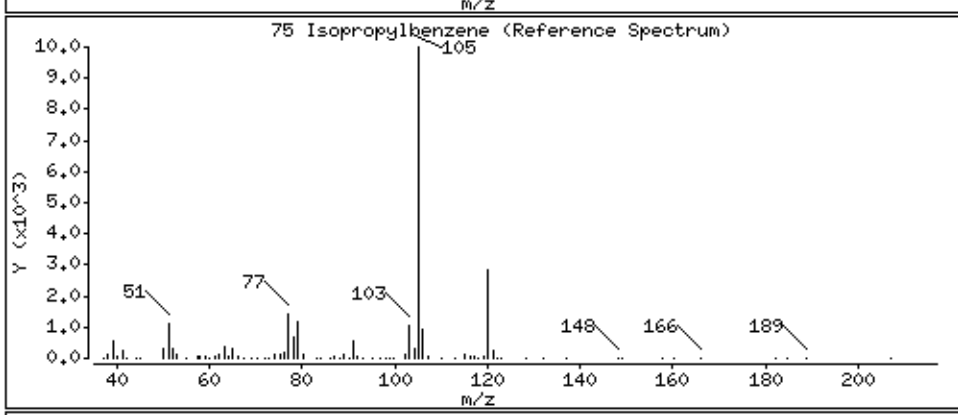
Concentration: 50.2 ppb

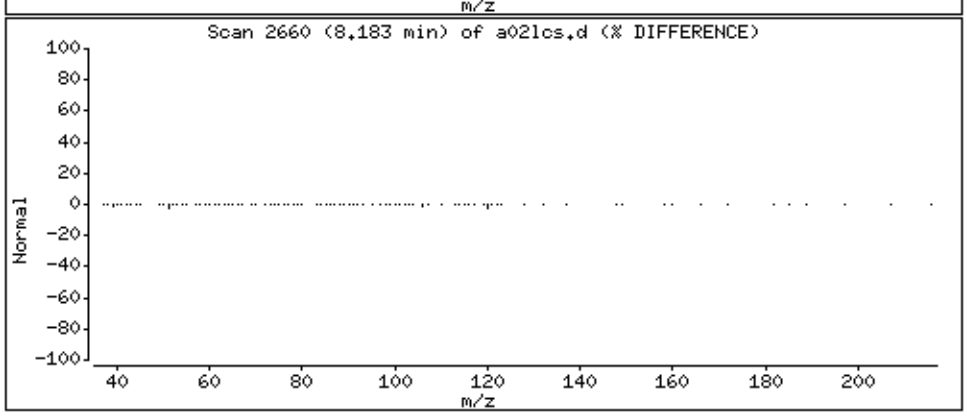












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

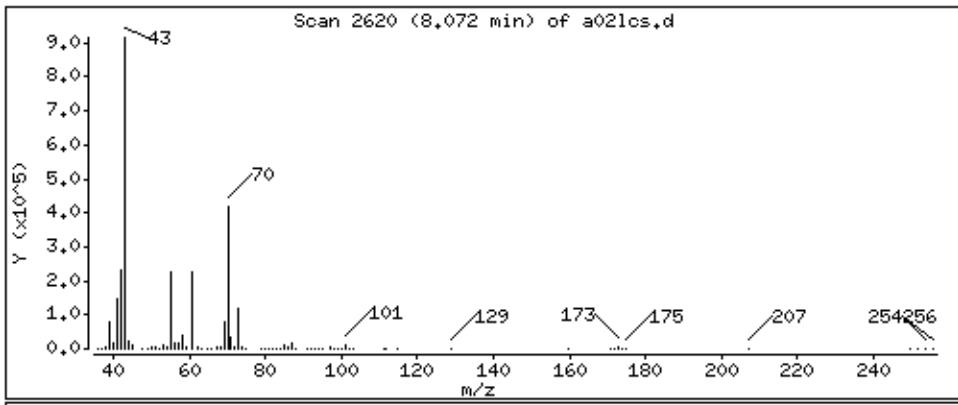
Operator: dae

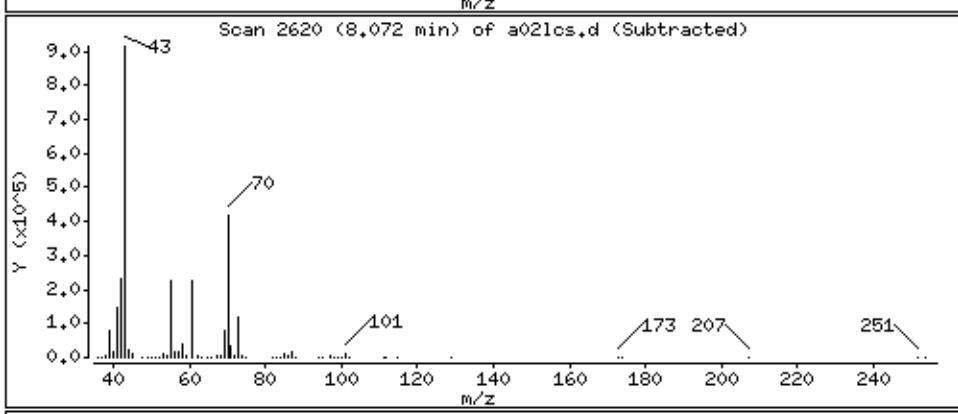
Column phase: DB-624

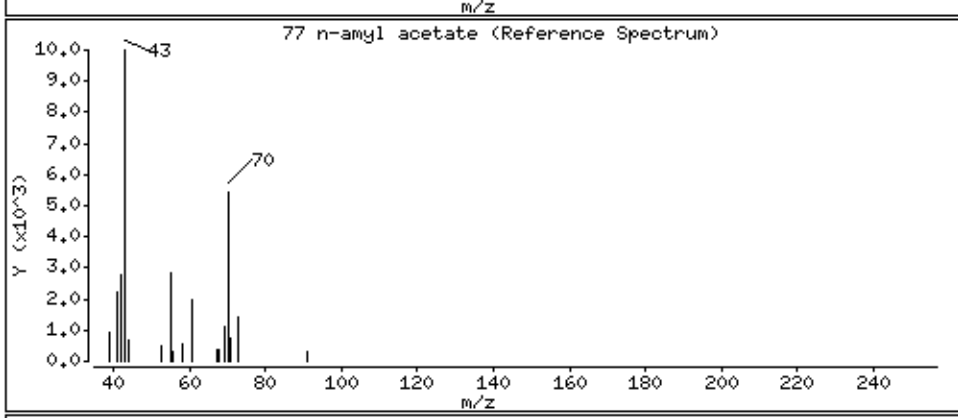
Column diameter: 0.18

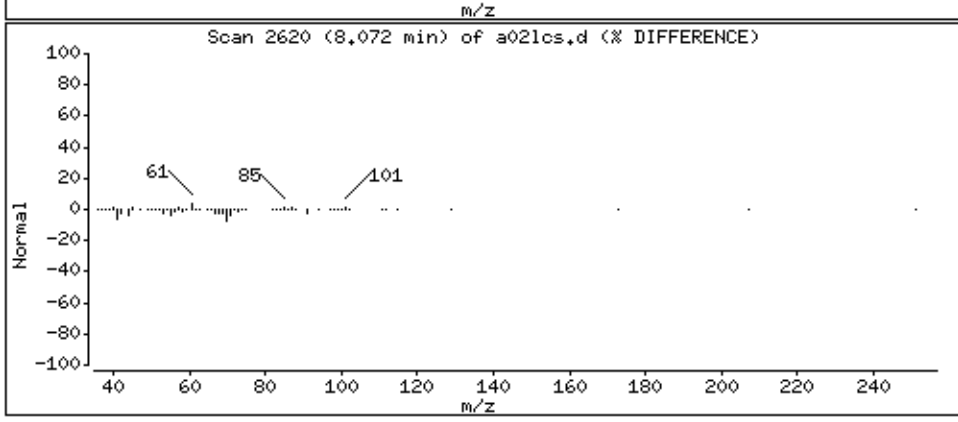
77 n-amyl acetate

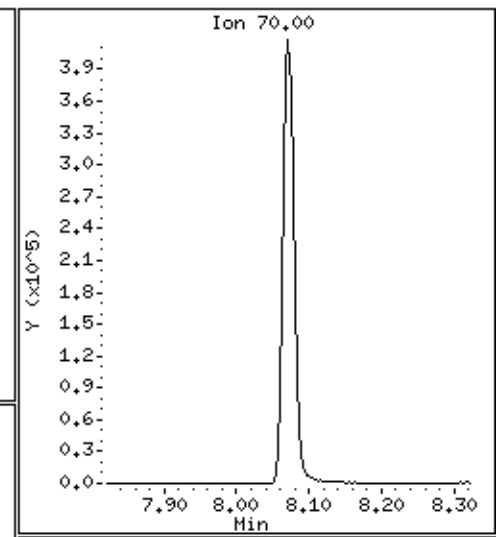
Concentration: 240 ppb

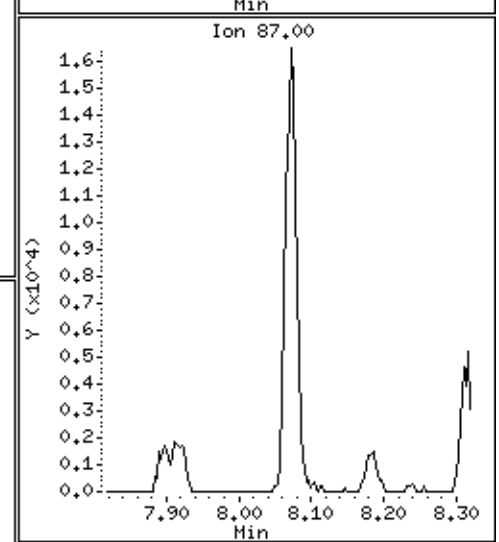


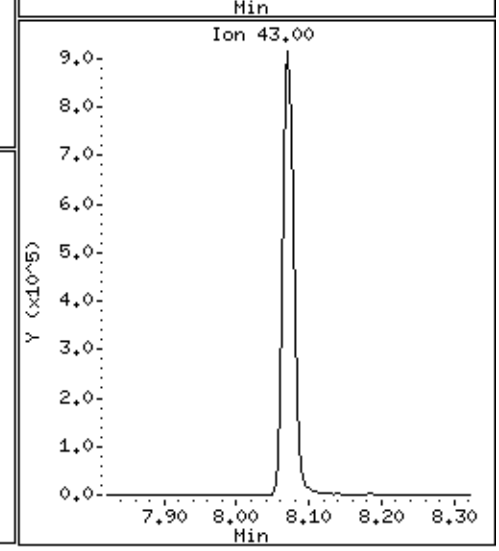












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

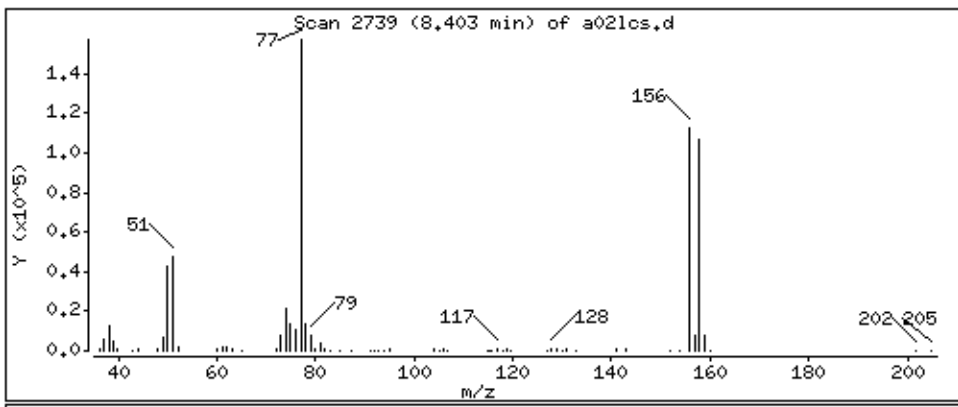
Operator: dae

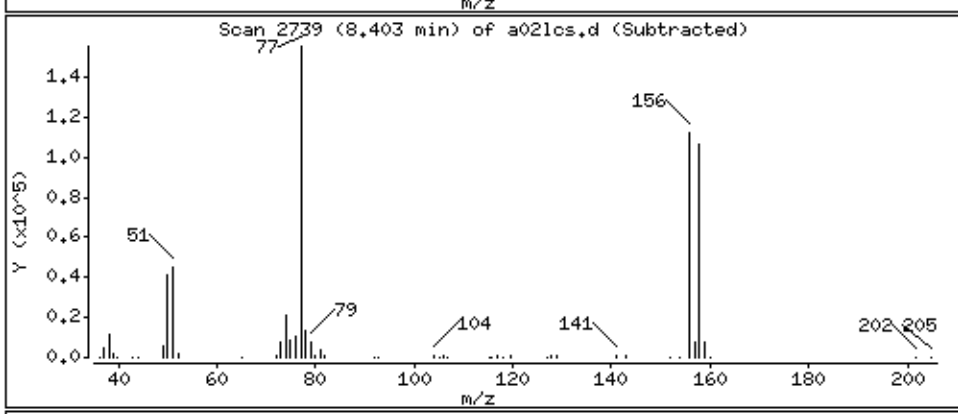
Column phase: DB-624

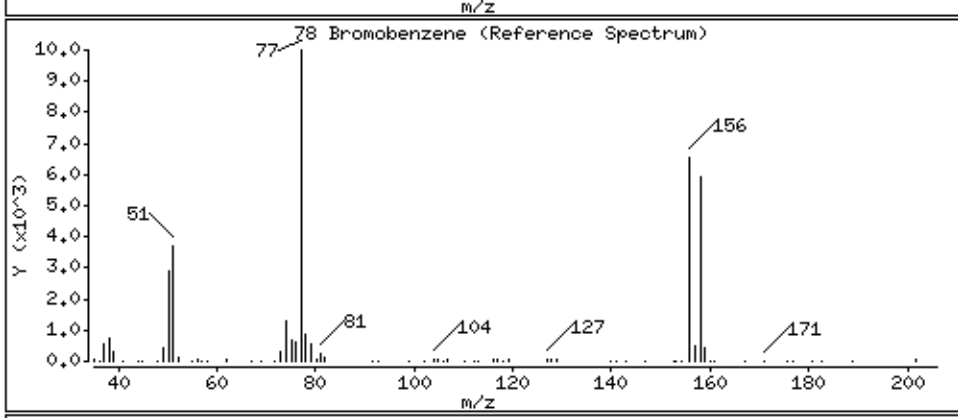
Column diameter: 0.18

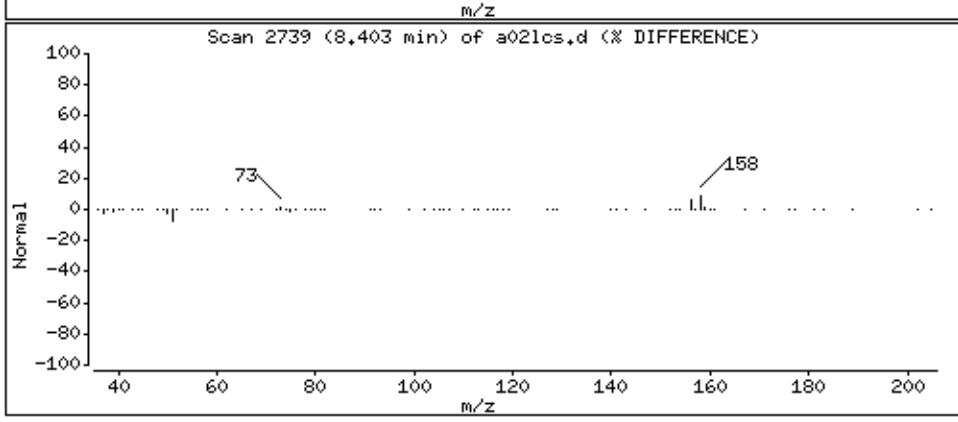
78 Bromobenzene

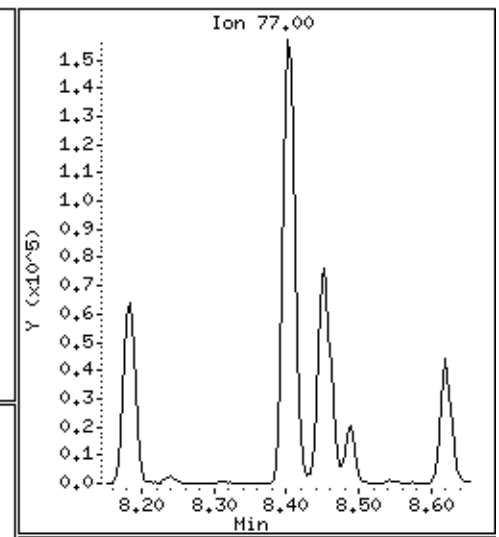
Concentration: 47.1 ppb

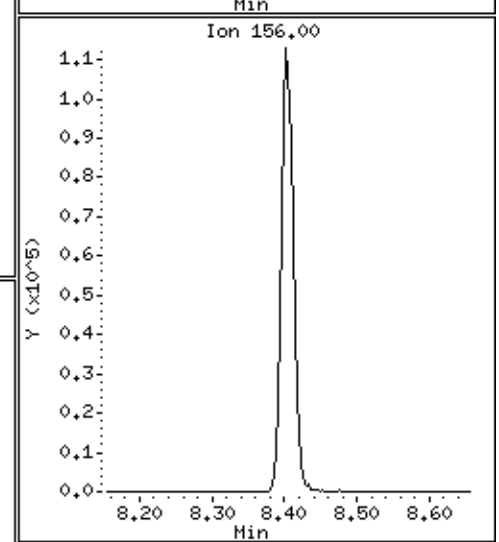


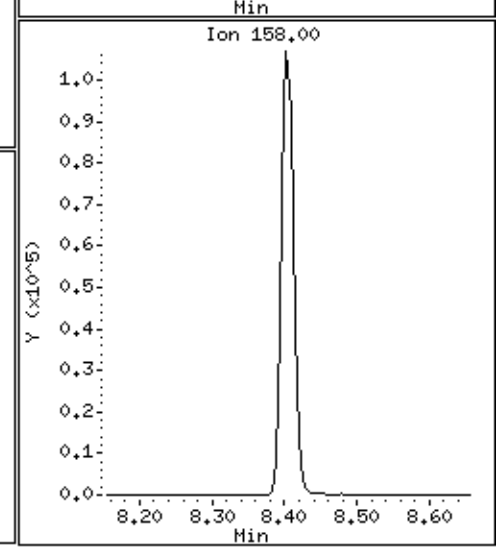












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

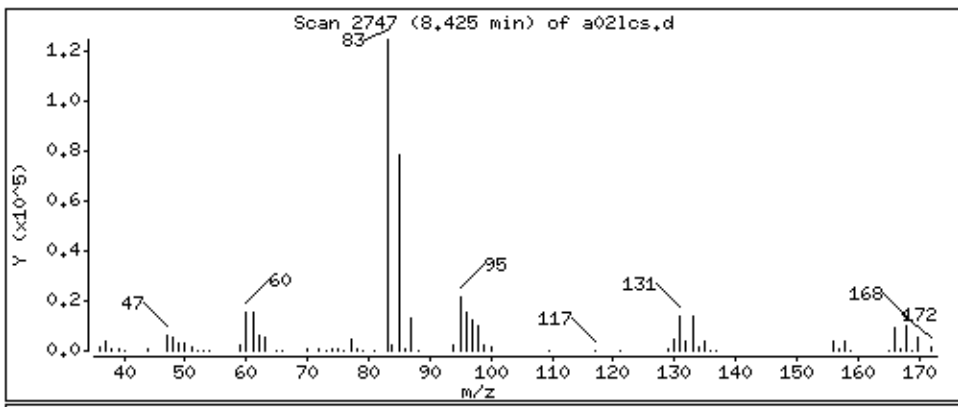
Operator: dae

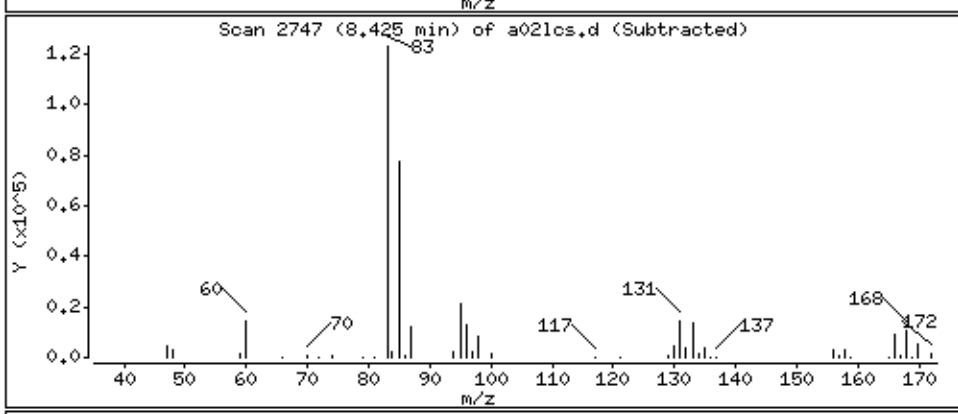
Column phase: DB-624

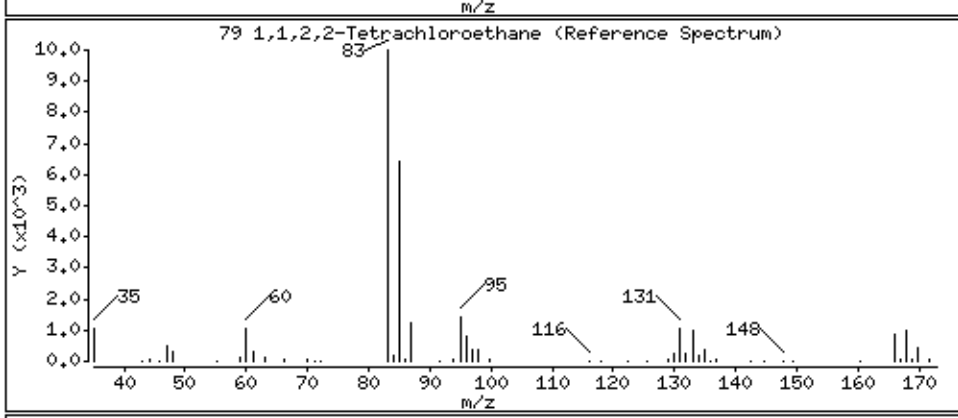
Column diameter: 0.18

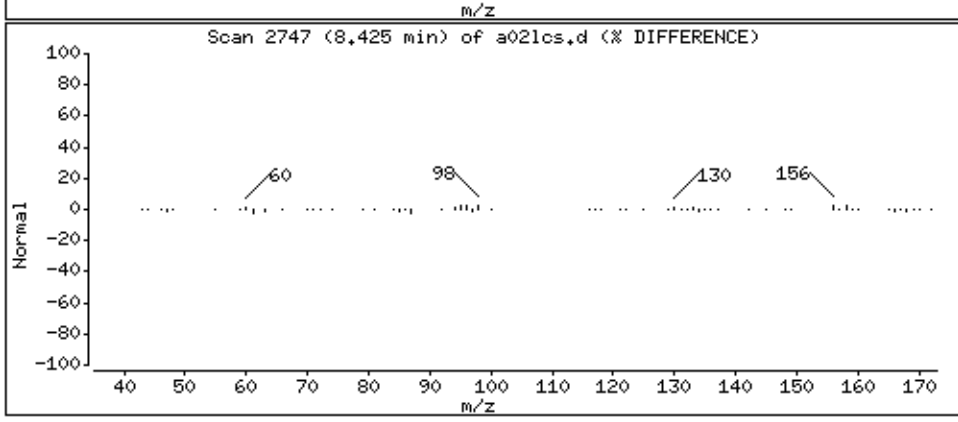
79 1,1,2,2-Tetrachloroethane

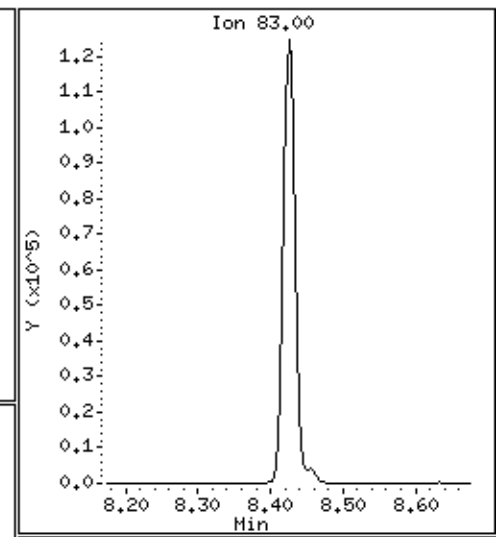
Concentration: 51.6 ppb

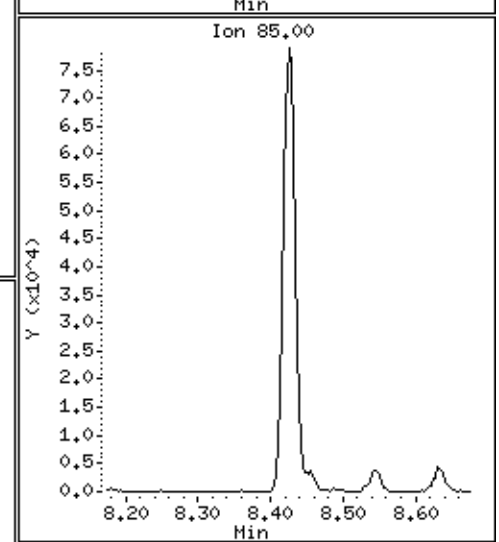


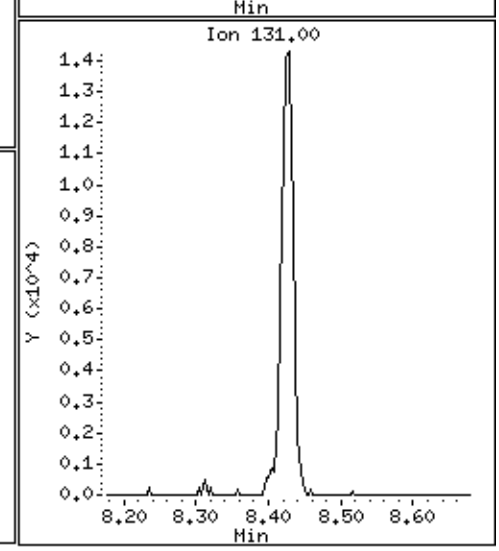












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

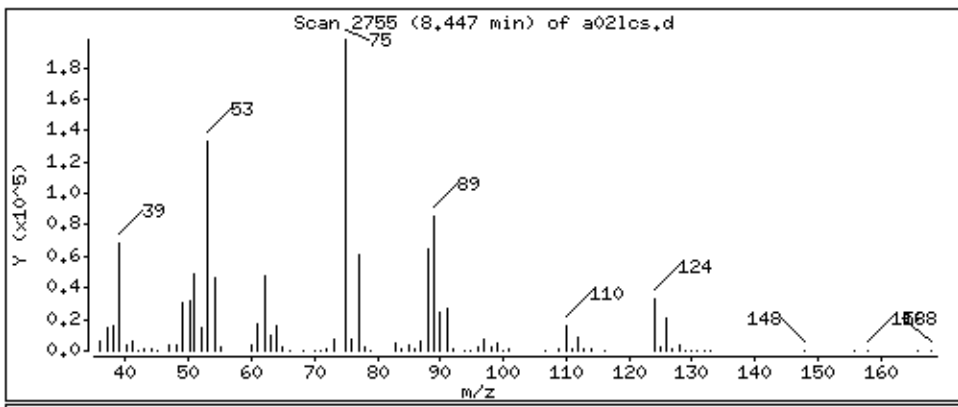
Operator: dae

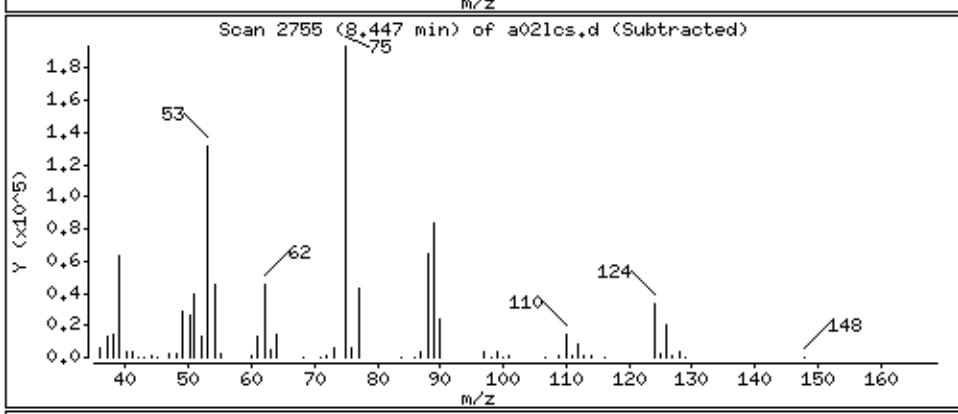
Column phase: DB-624

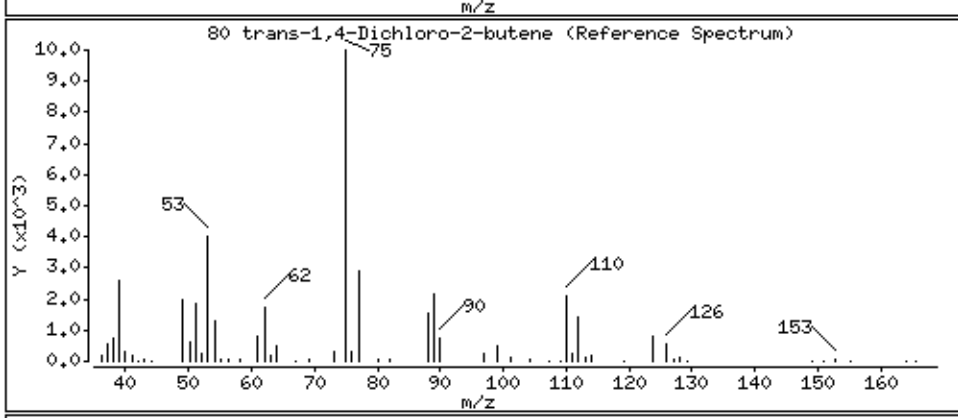
Column diameter: 0.18

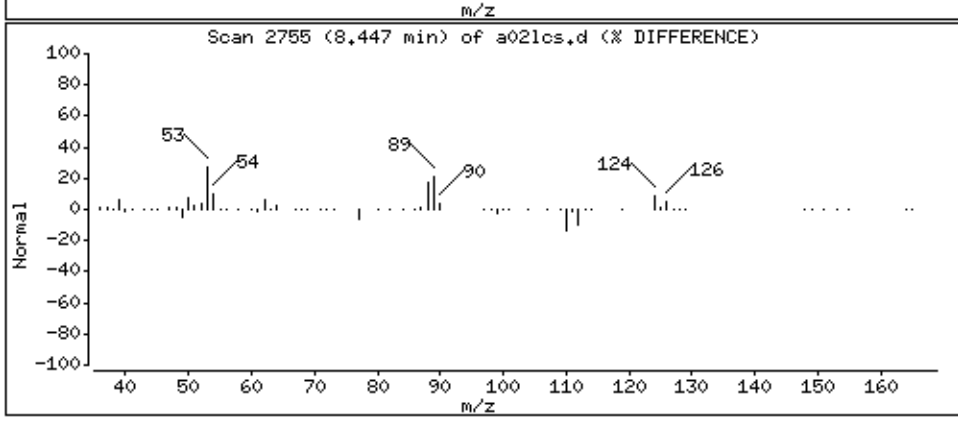
80 trans-1,4-Dichloro-2-butene

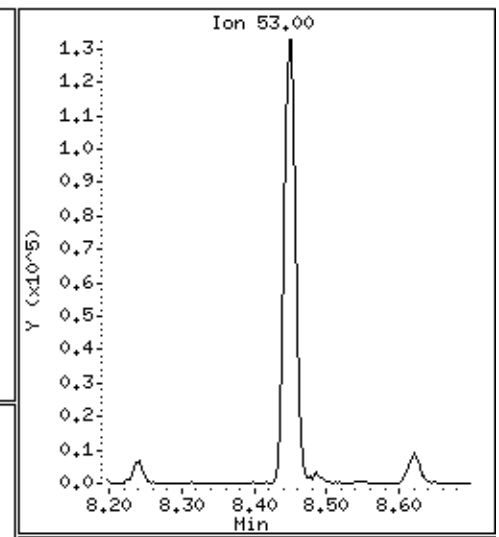
Concentration: 171 ppb

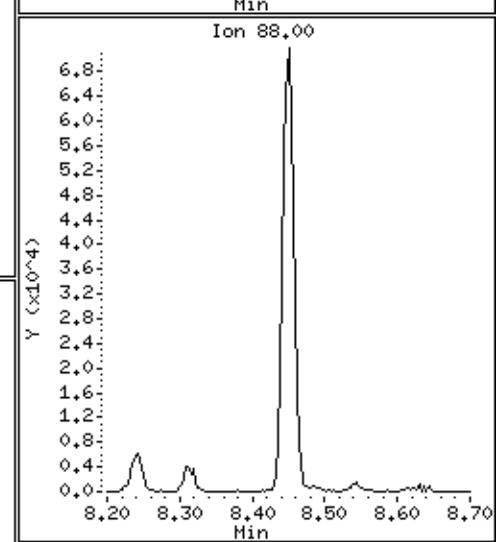


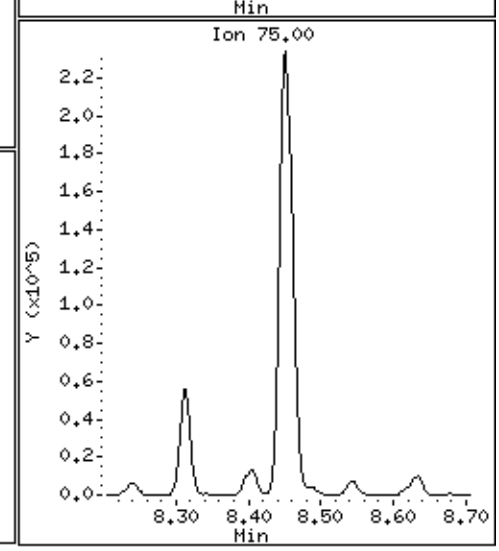












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

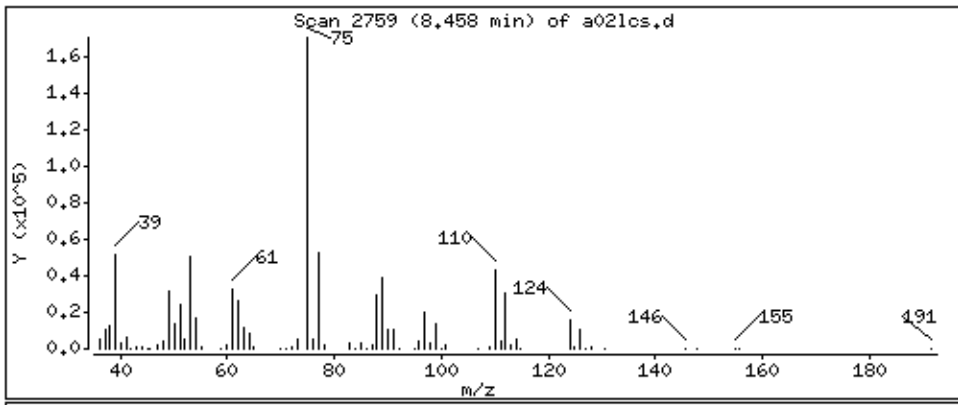
Operator: dae

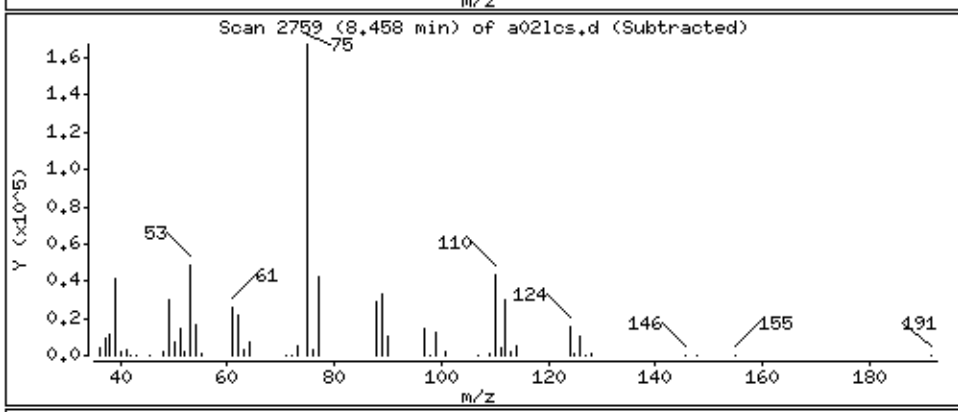
Column phase: DB-624

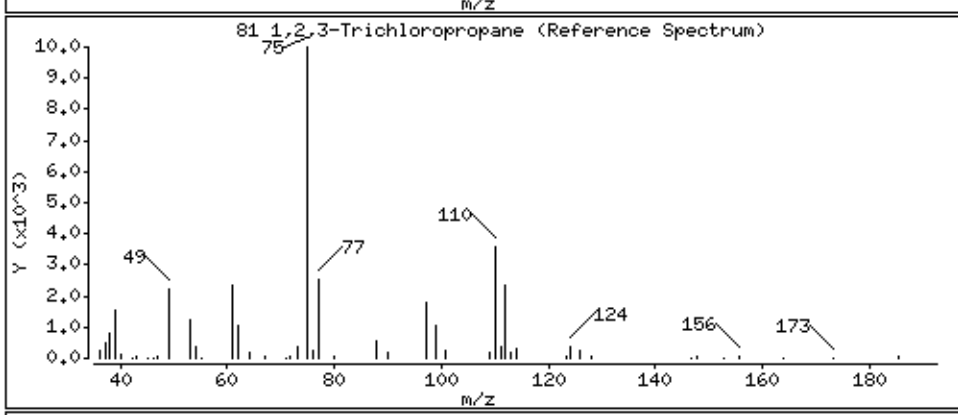
Column diameter: 0.18

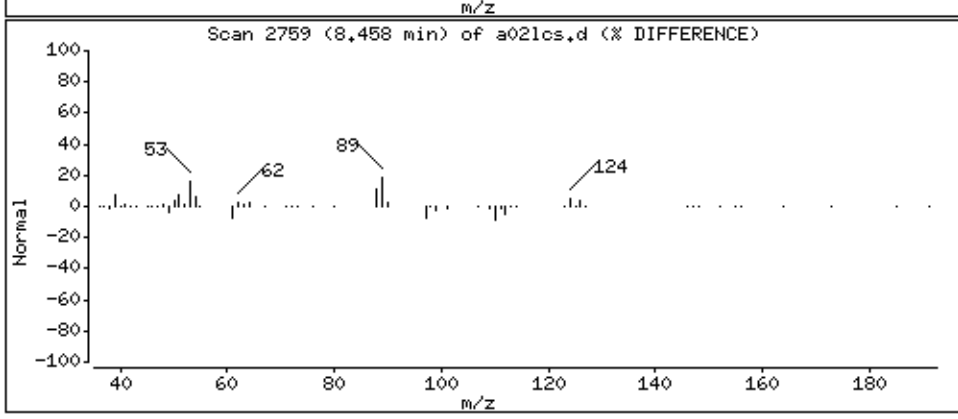
81 1,2,3-Trichloropropane

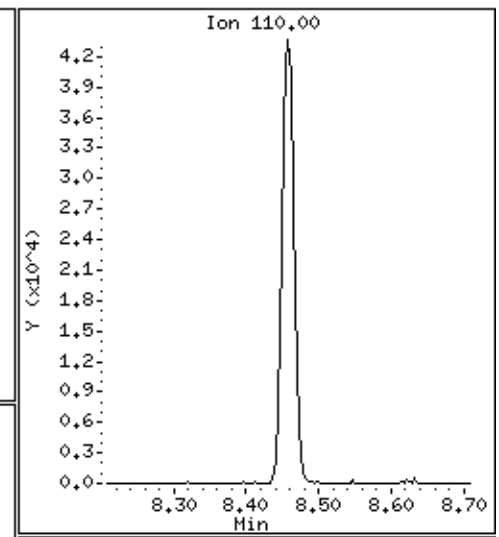
Concentration: 51.6 ppb

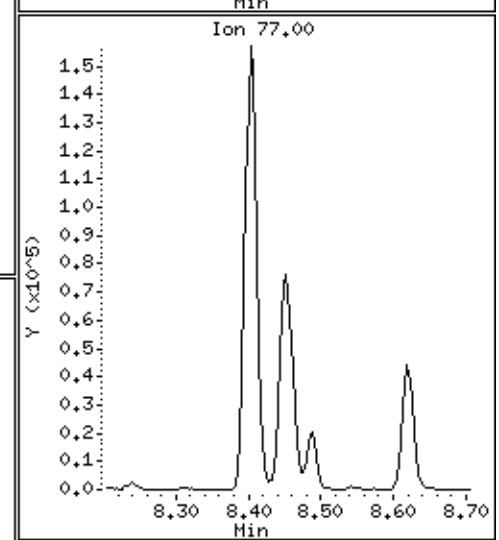


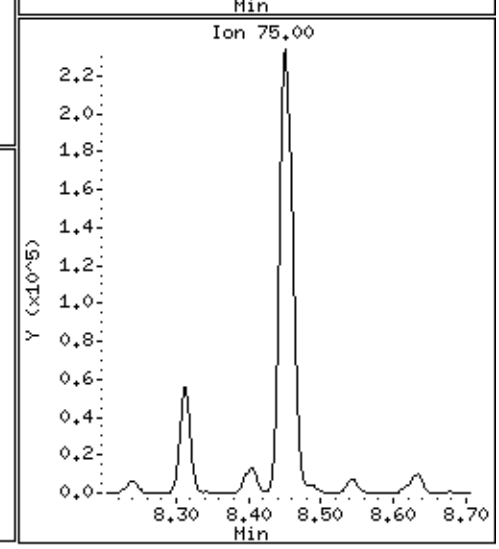












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

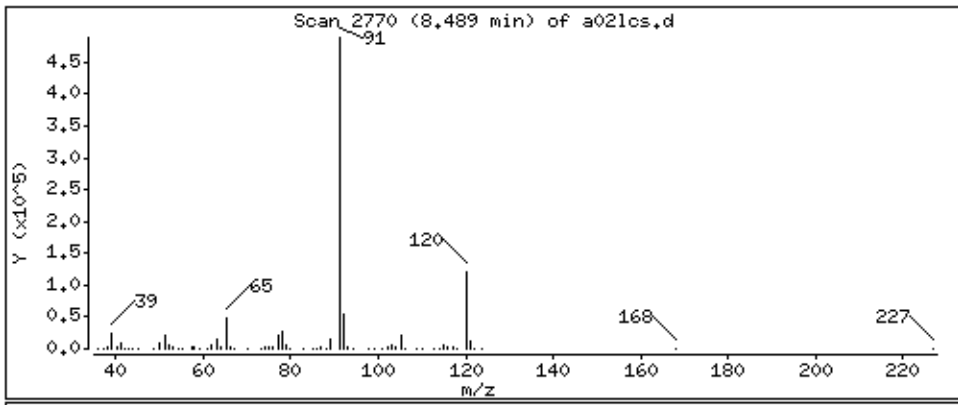
Operator: dae

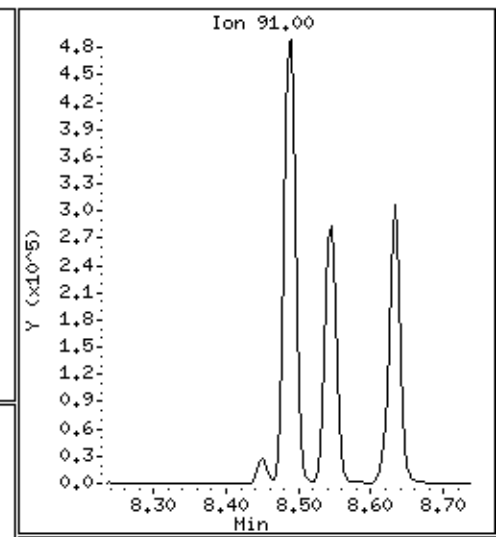
Column phase: DB-624

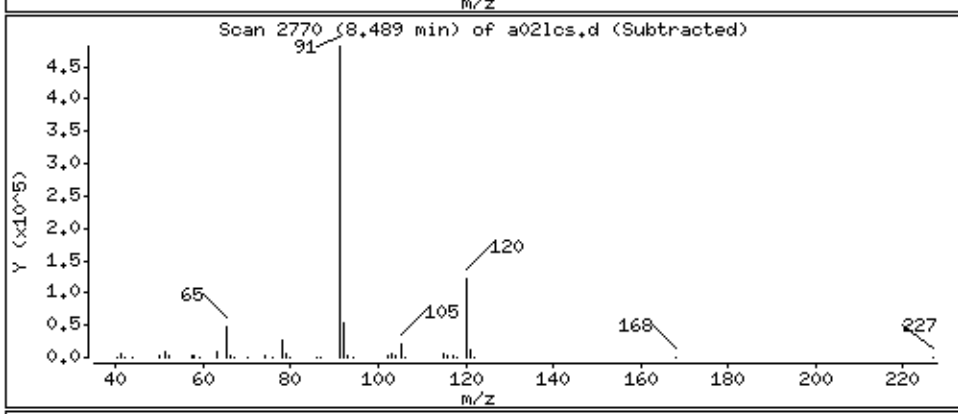
Column diameter: 0.18

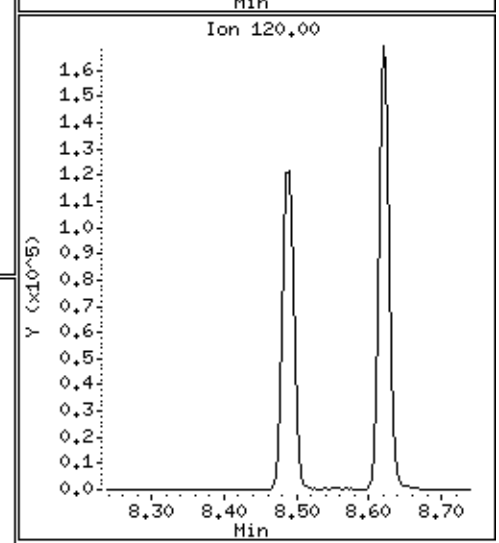
82 n-Propylbenzene

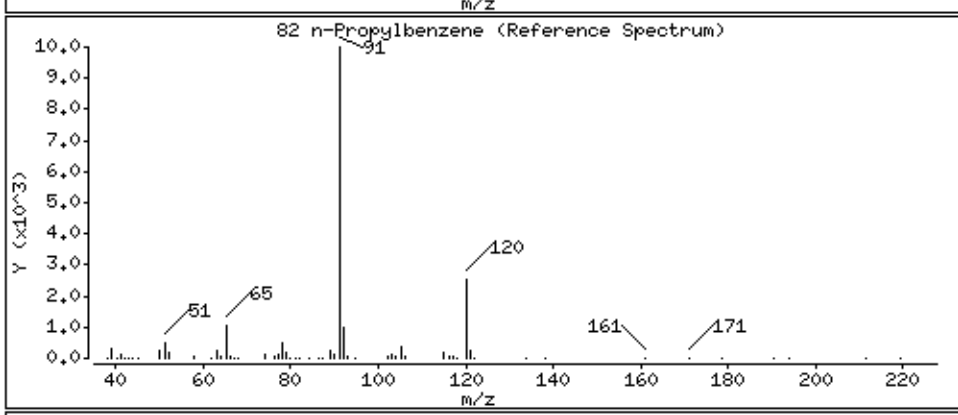
Concentration: 55.0 ppb

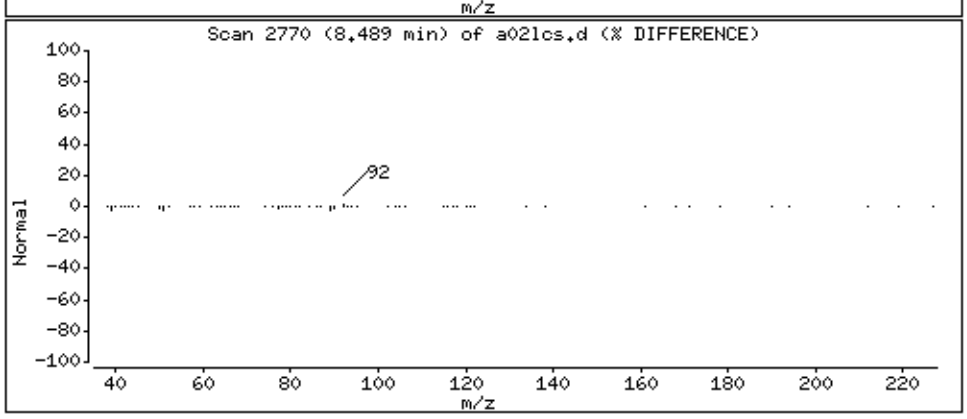












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

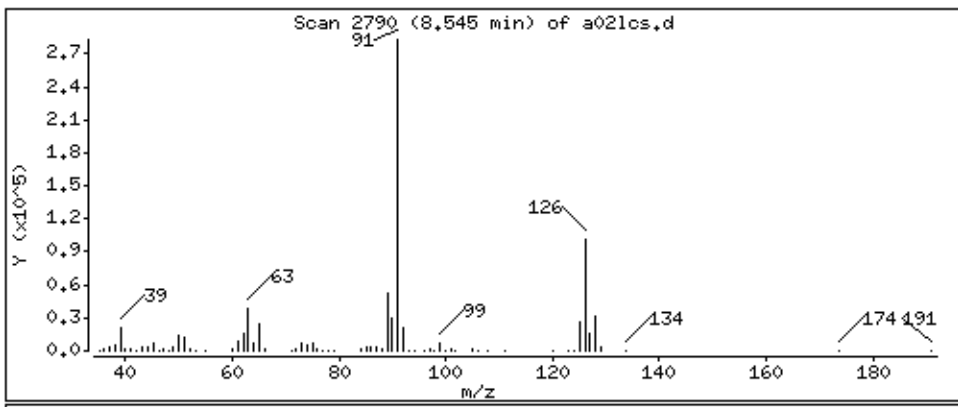
Operator: dae

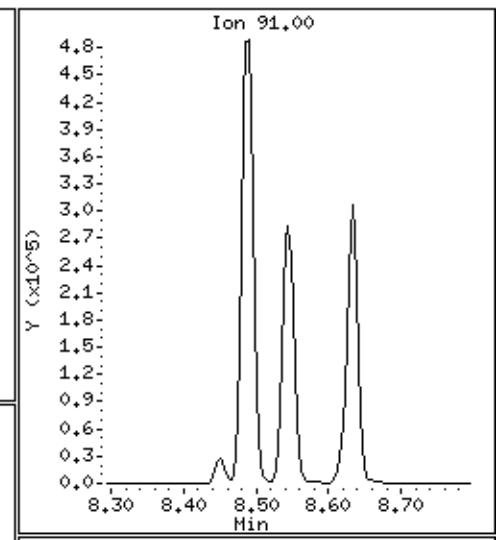
Column phase: DB-624

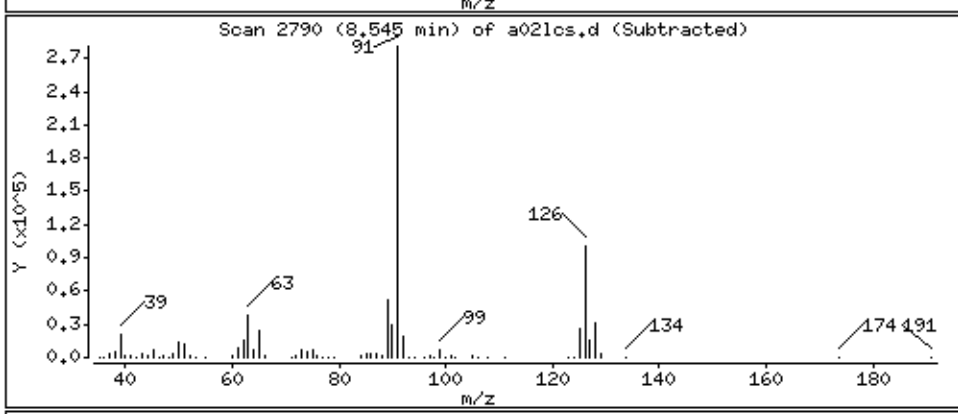
Column diameter: 0.18

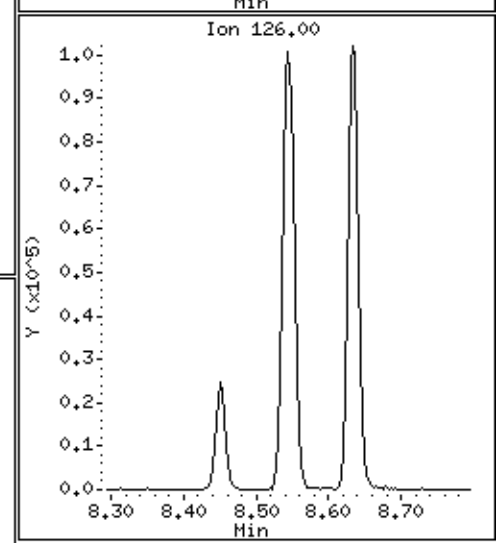
83 2-Chlorotoluene

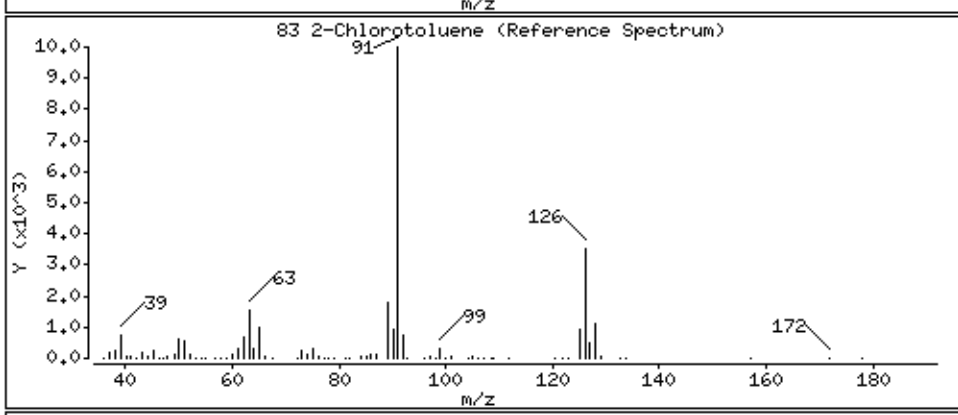
Concentration: 50.2 ppb

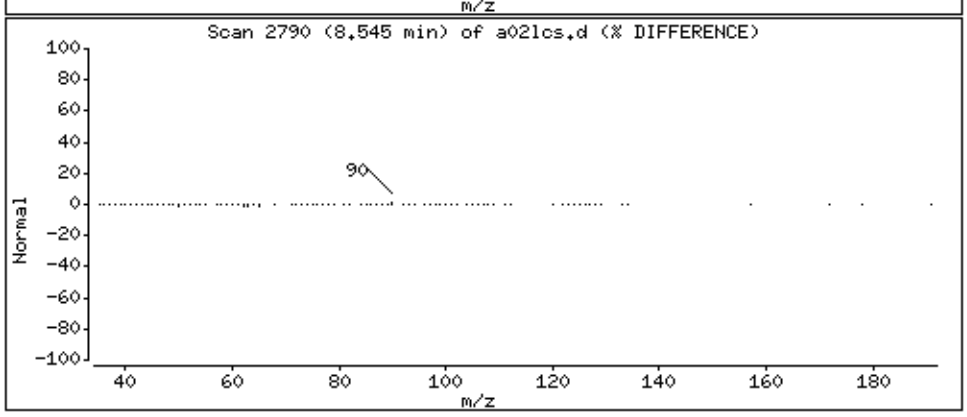












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

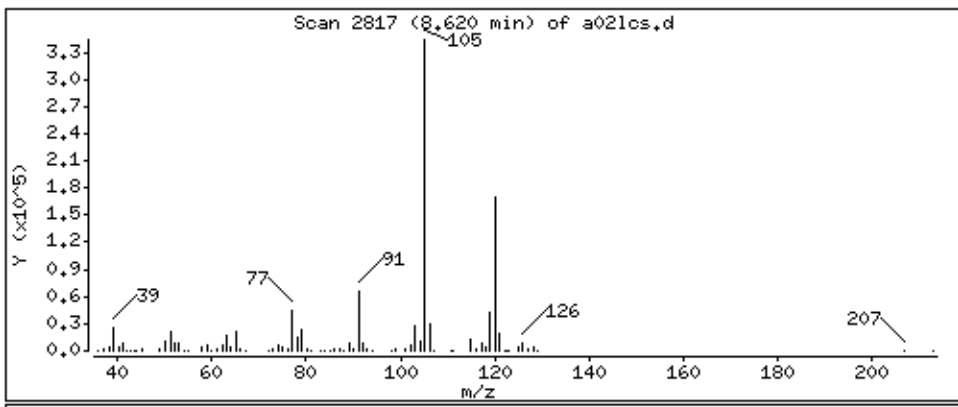
Operator: dae

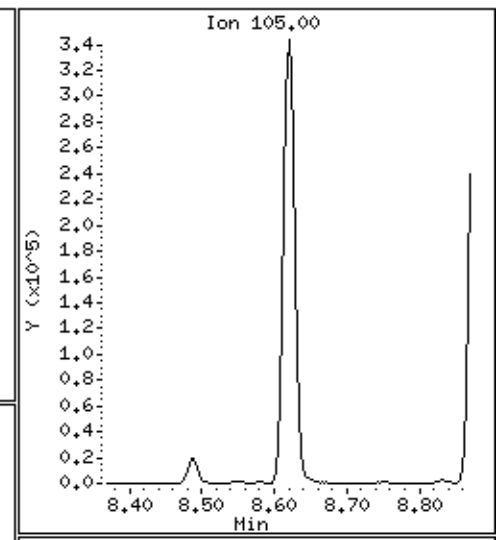
Column phase: DB-624

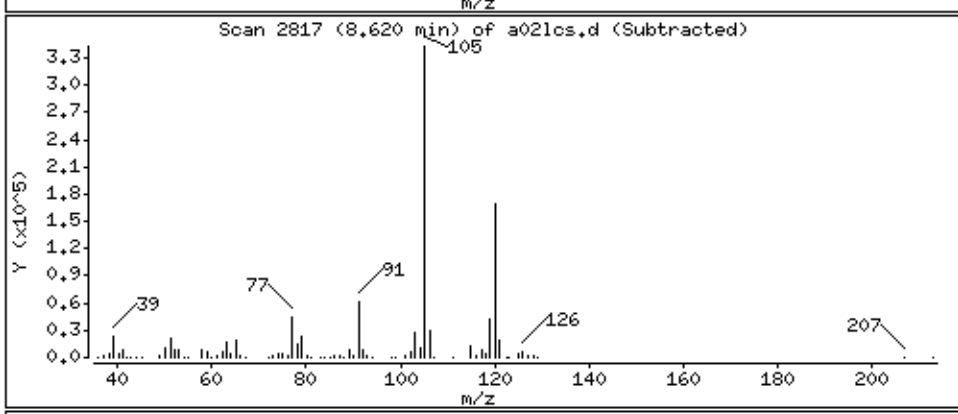
Column diameter: 0.18

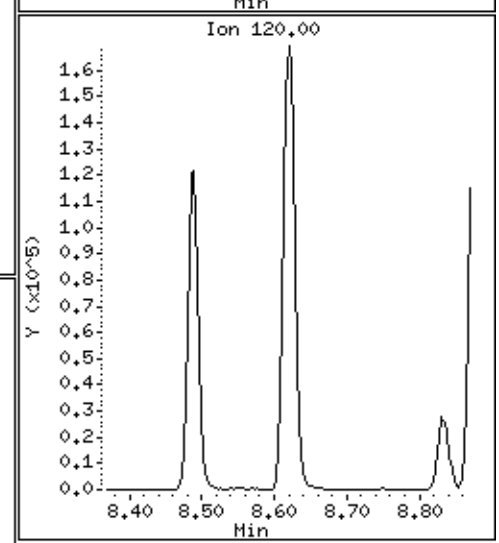
84 1,3,5-Trimethylbenzene

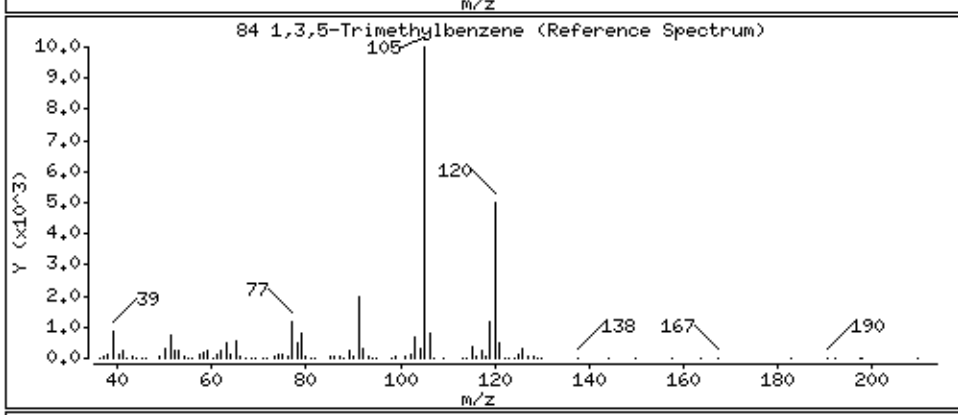
Concentration: 50.6 ppb

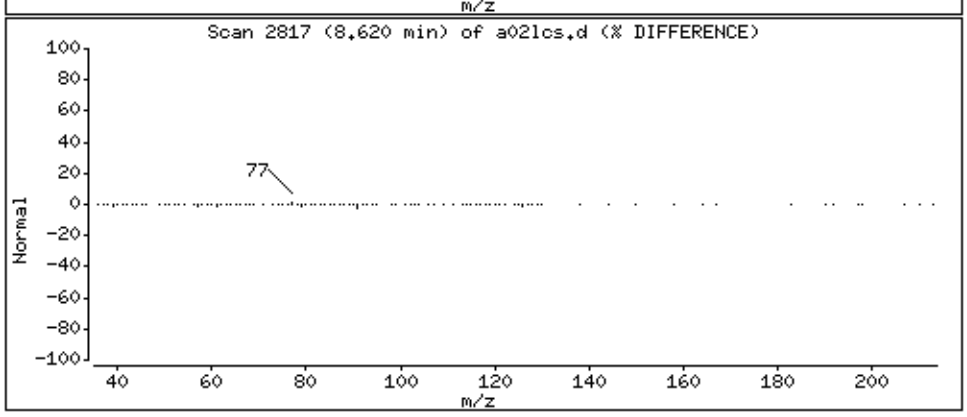












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

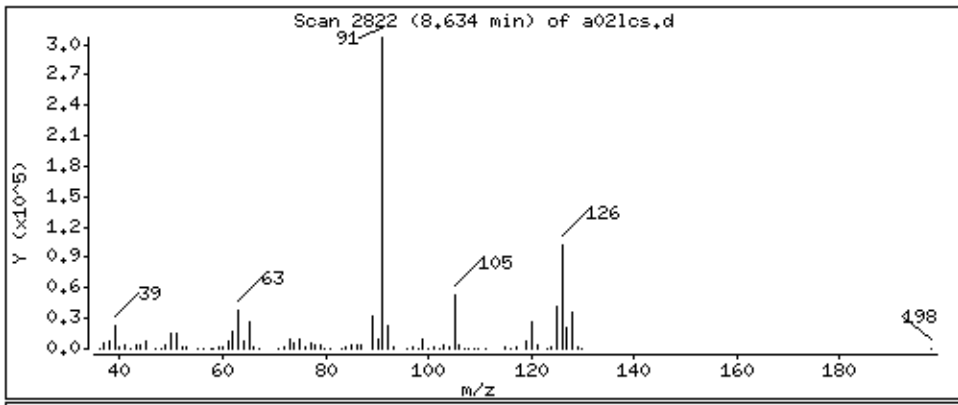
Operator: dae

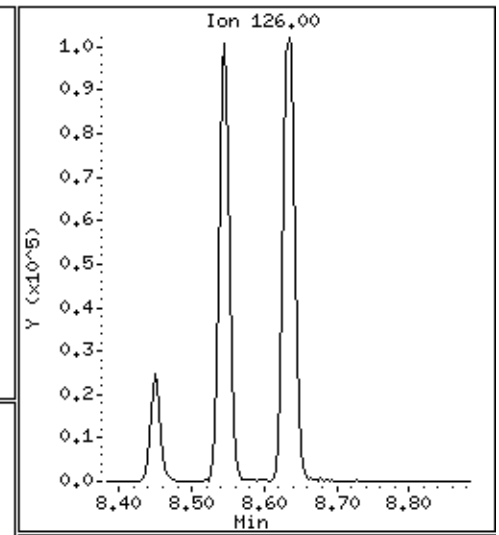
Column phase: DB-624

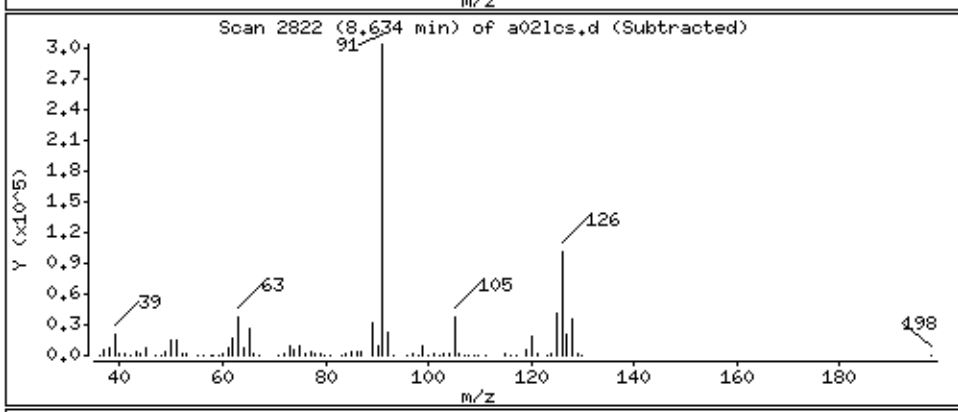
Column diameter: 0.18

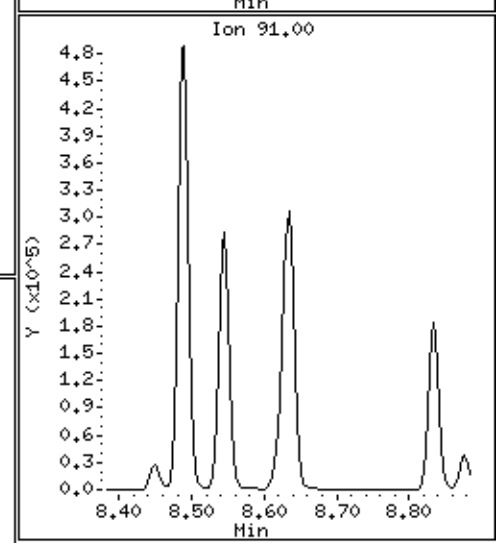
85 4-Chlorotoluene

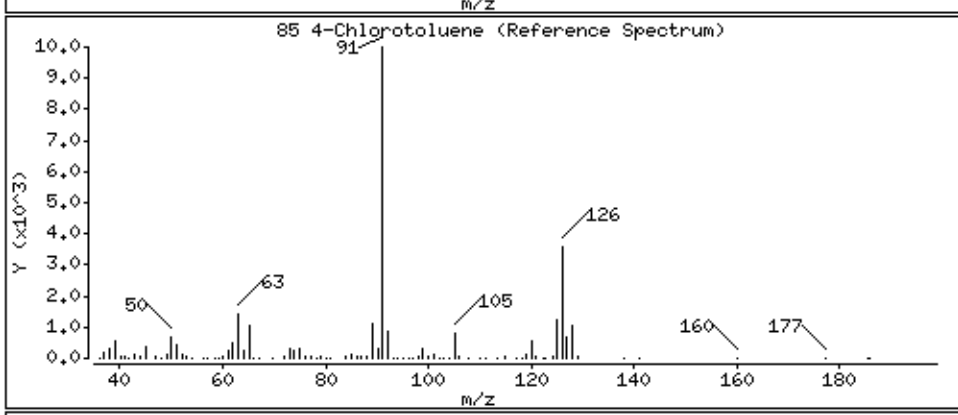
Concentration: 49.5 ppb

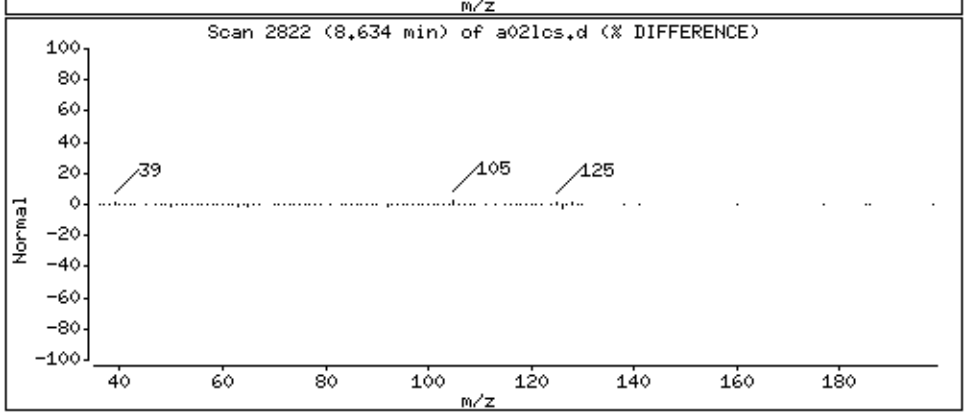












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

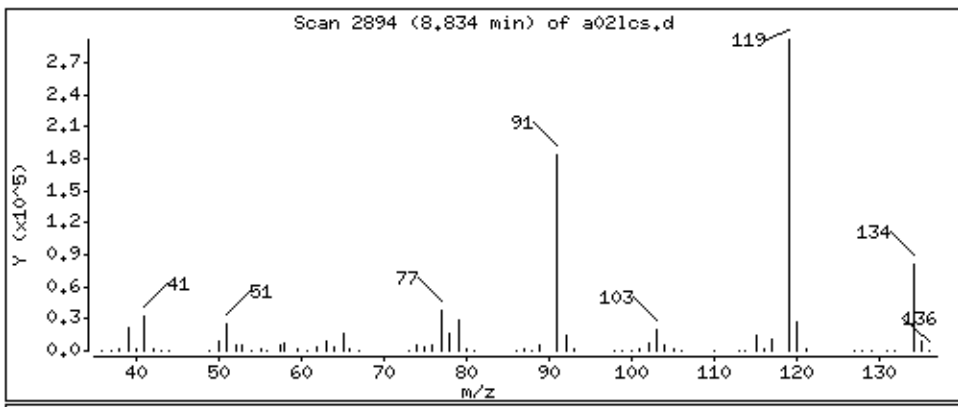
Operator: dae

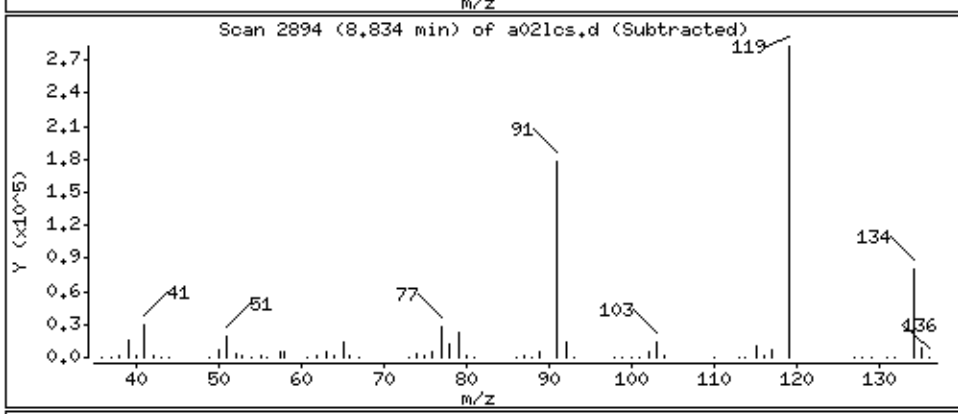
Column phase: DB-624

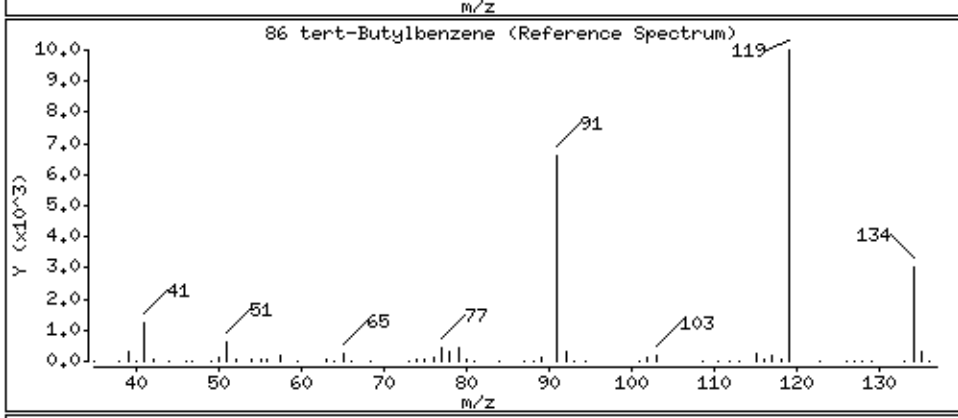
Column diameter: 0.18

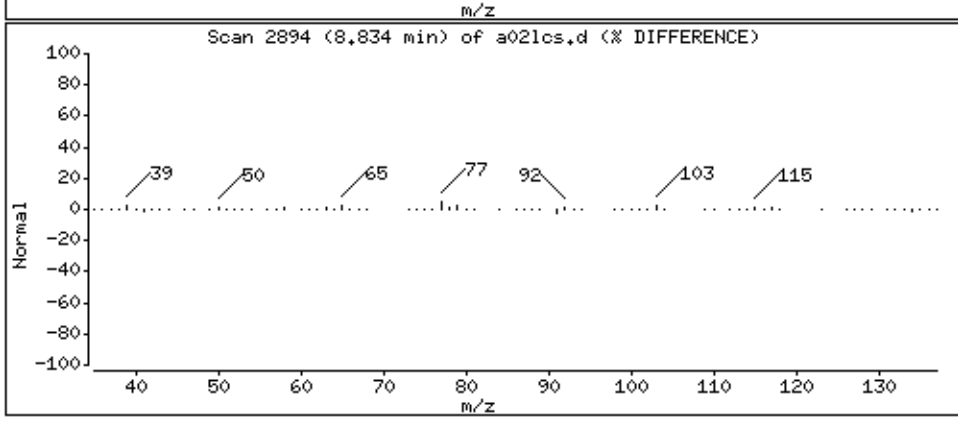
86 tert-Butylbenzene

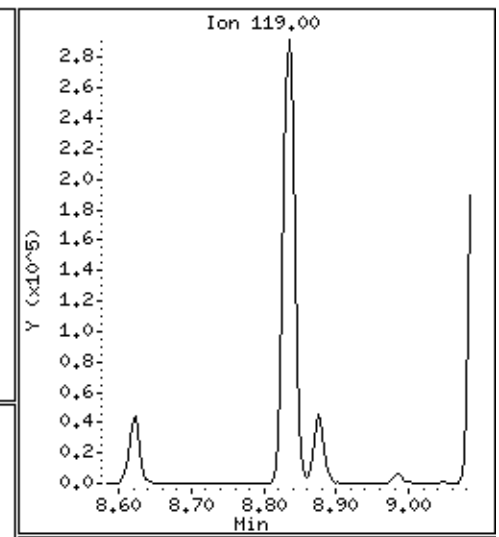
Concentration: 42.4 ppb

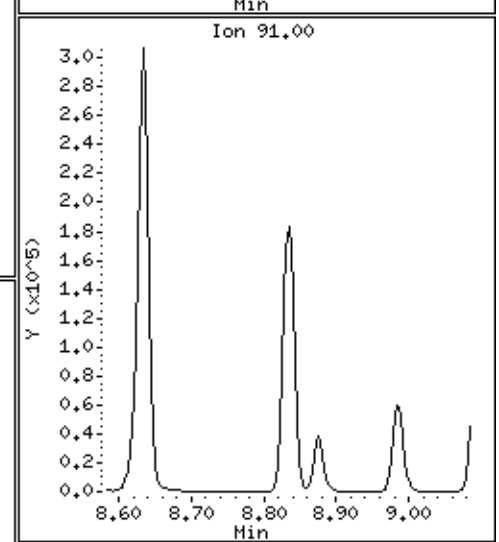


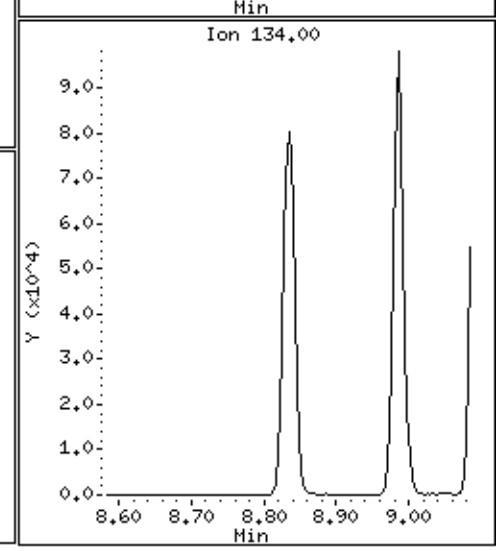












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

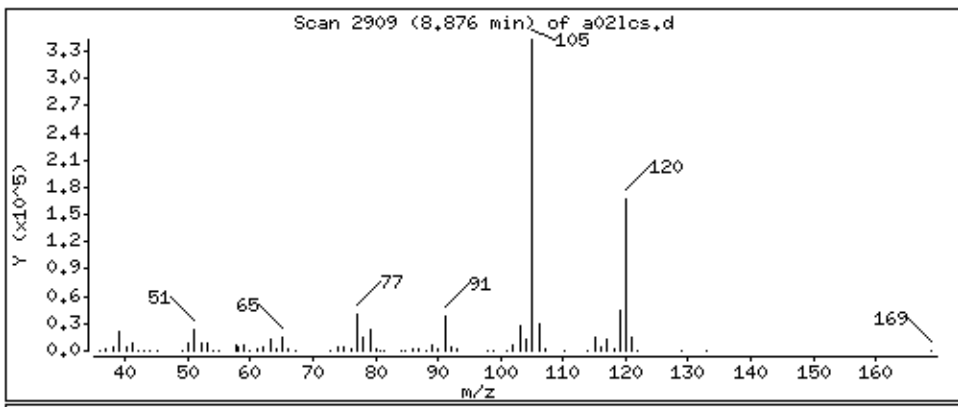
Operator: dae

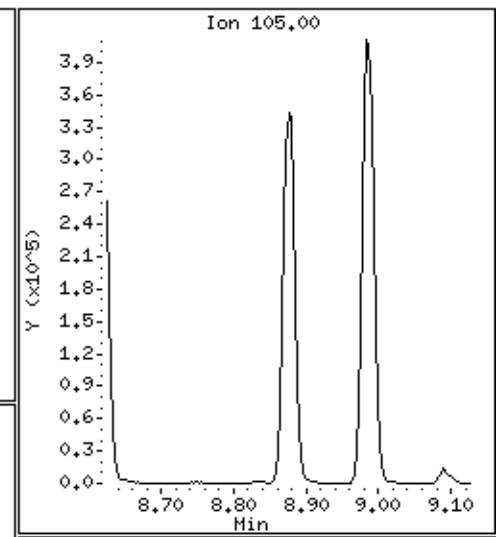
Column phase: DB-624

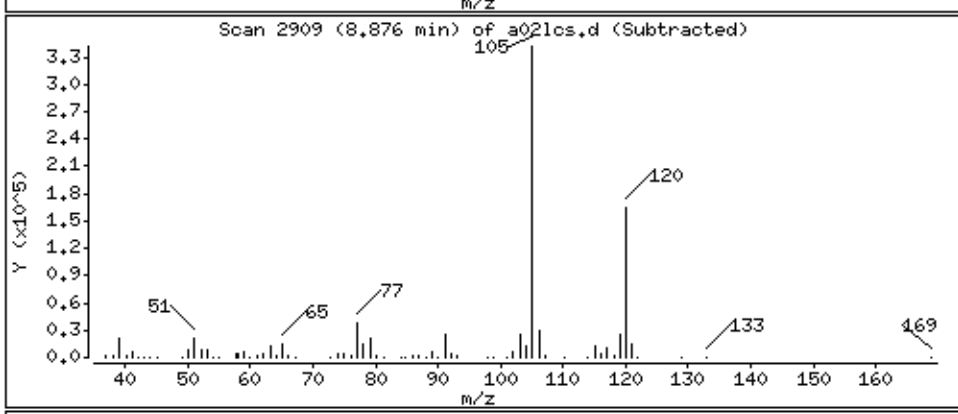
Column diameter: 0.18

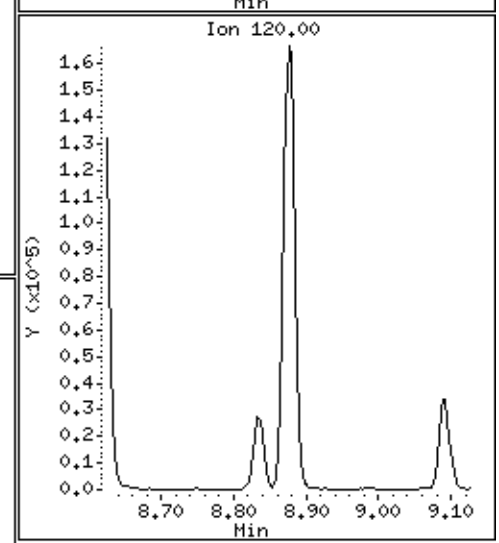
87 1,2,4-Trimethylbenzene

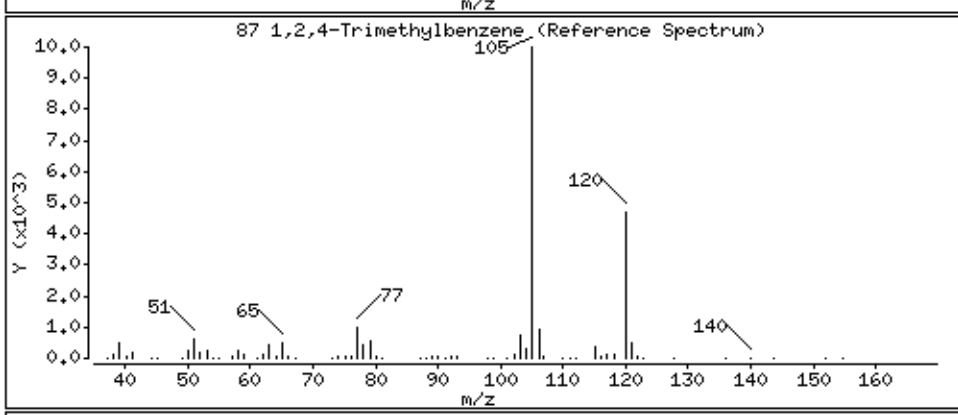
Concentration: 50.2 ppb

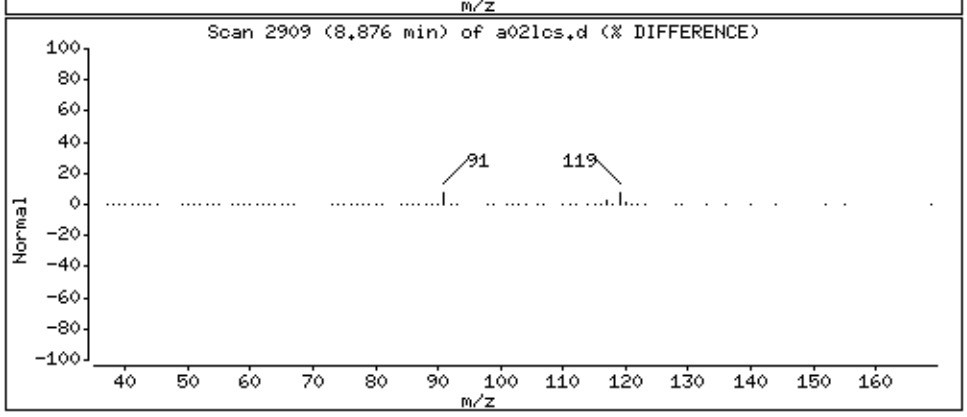












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

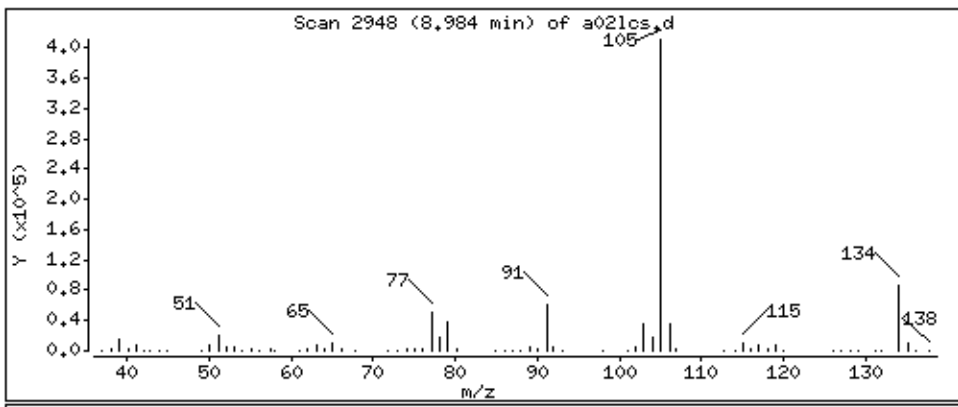
Operator: dae

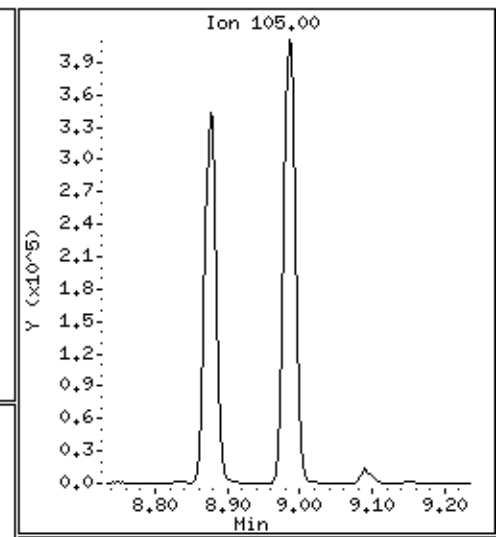
Column phase: DB-624

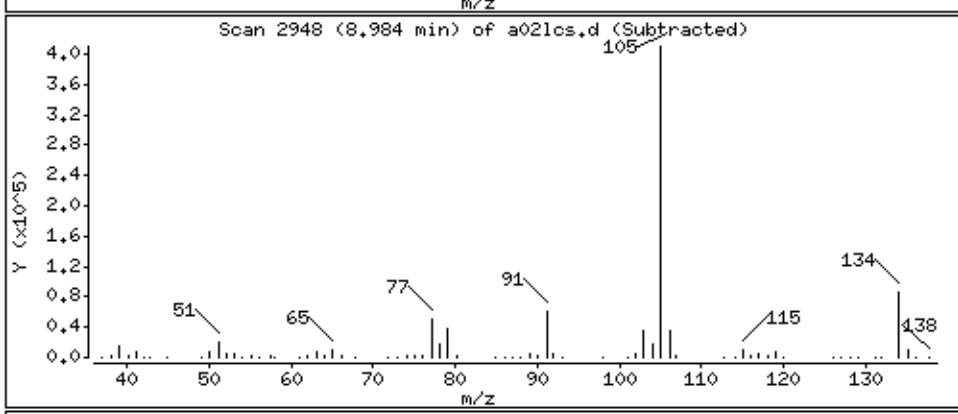
Column diameter: 0.18

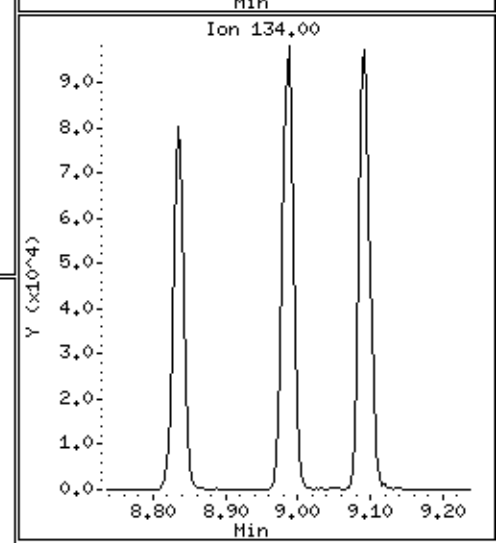
88 sec-Butylbenzene

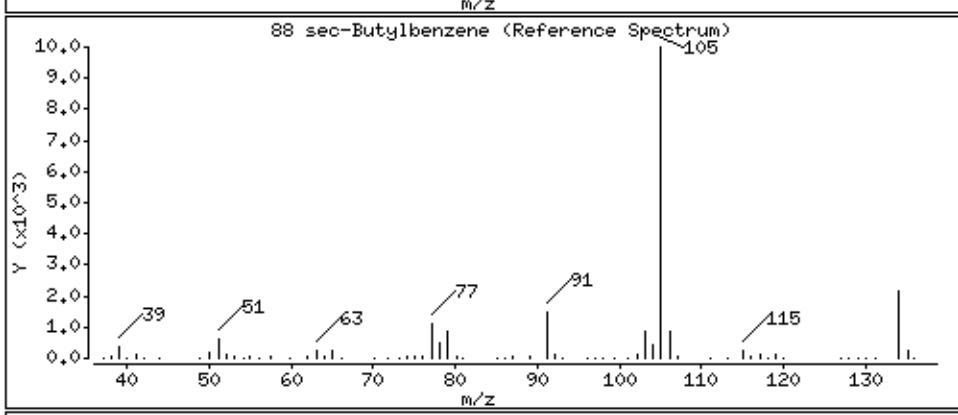
Concentration: 51.3 ppb

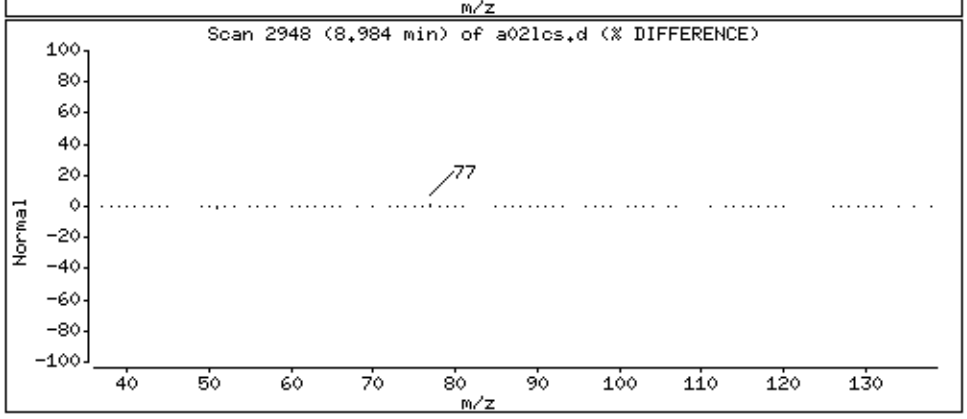












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

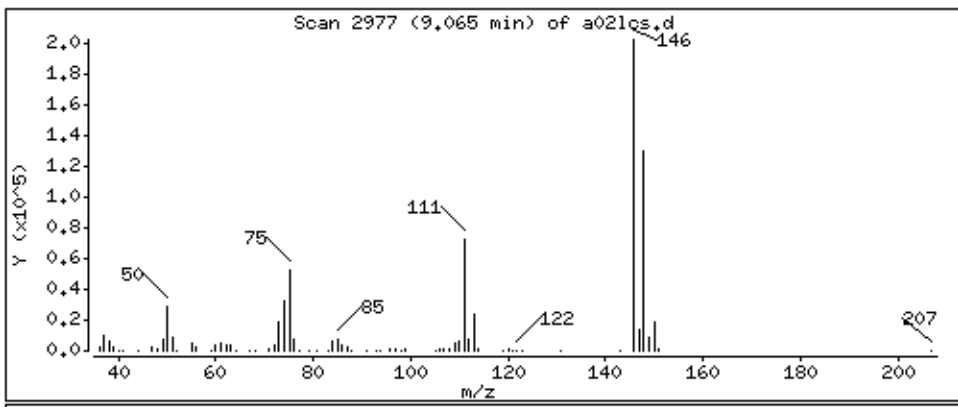
Operator: dae

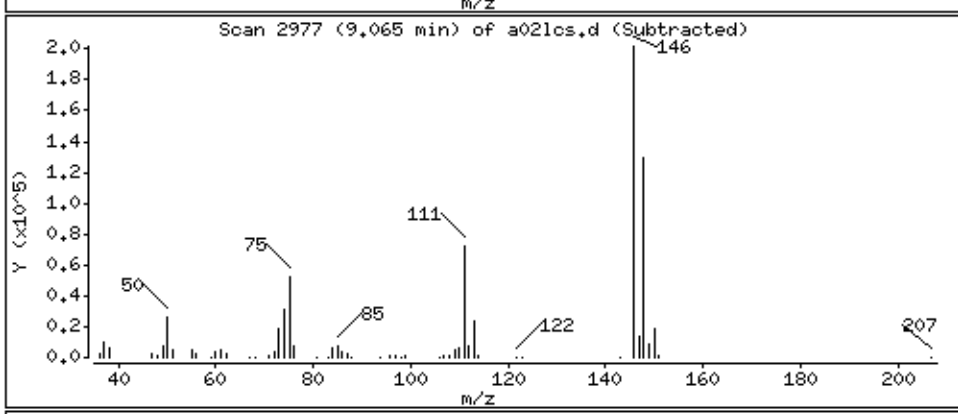
Column phase: DB-624

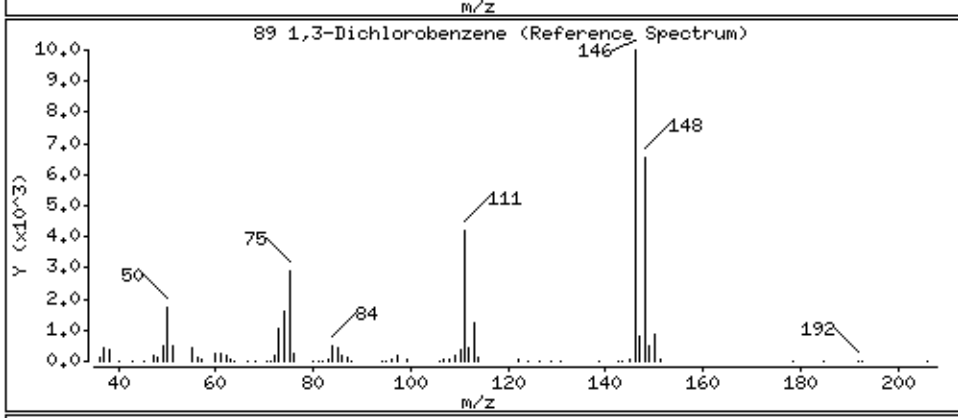
Column diameter: 0.18

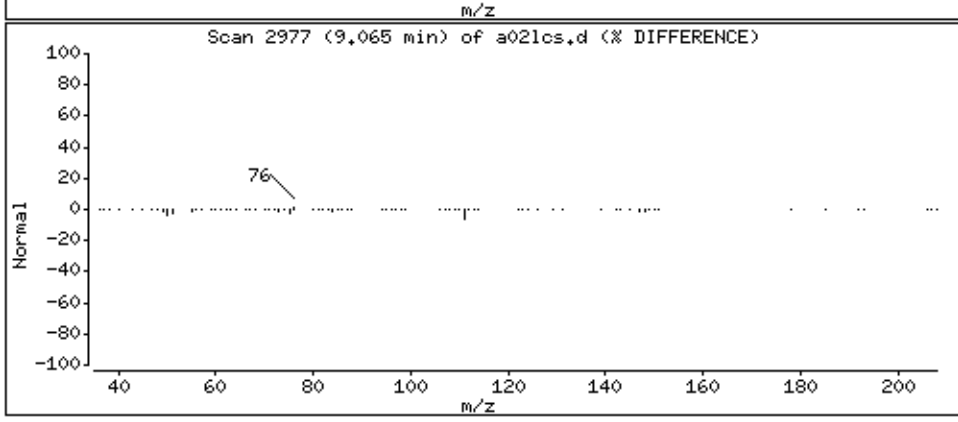
89 1,3-Dichlorobenzene

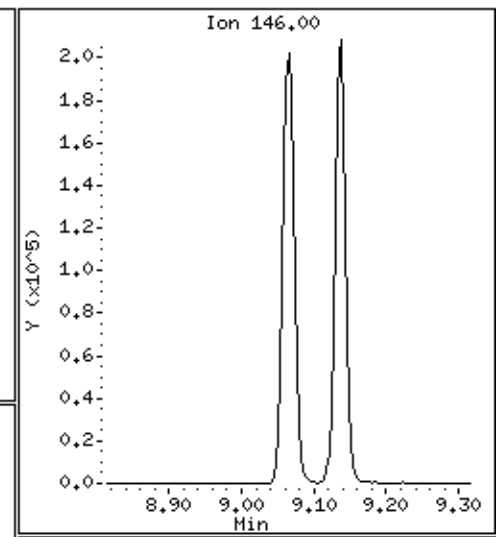
Concentration: 48.0 ppb

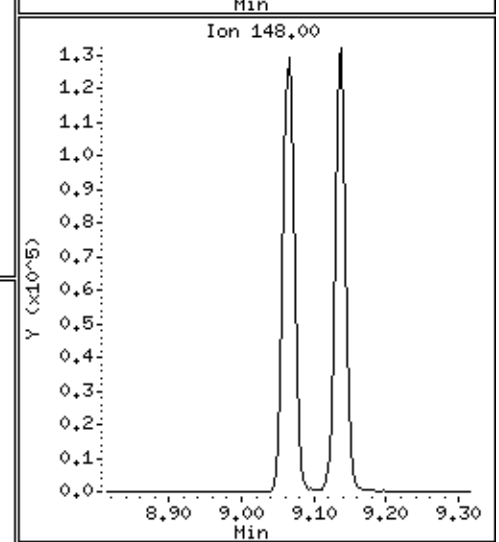


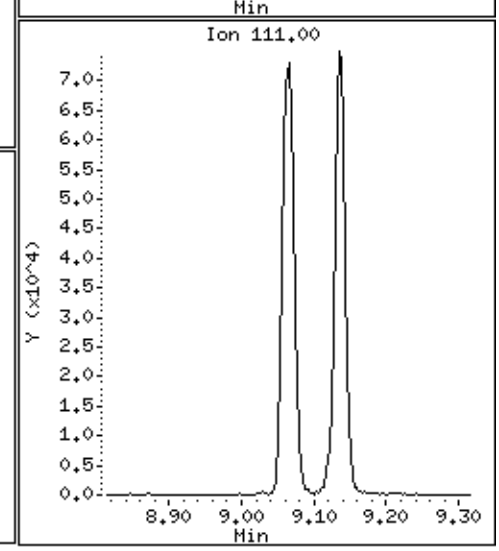












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

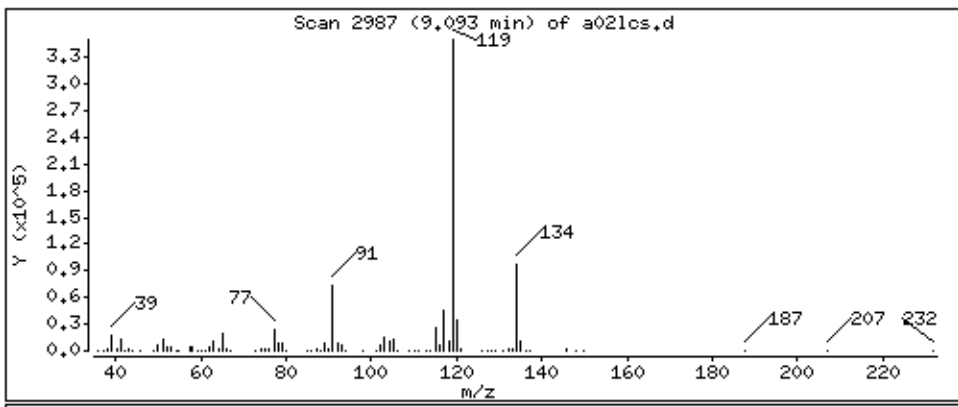
Operator: dae

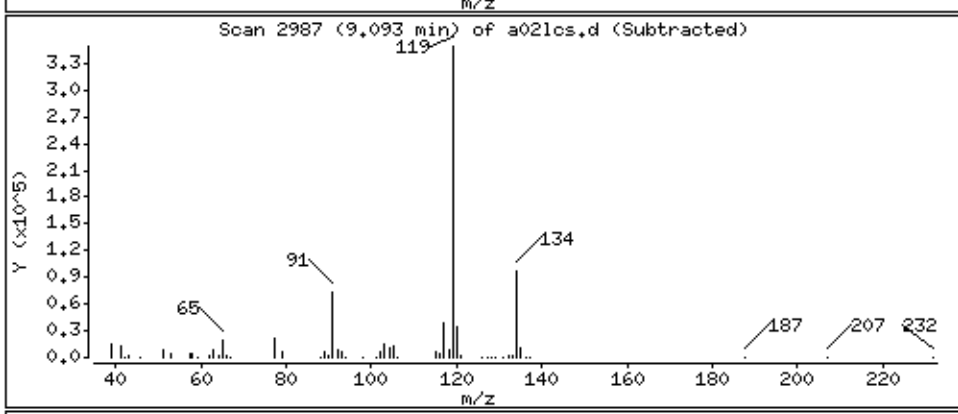
Column phase: DB-624

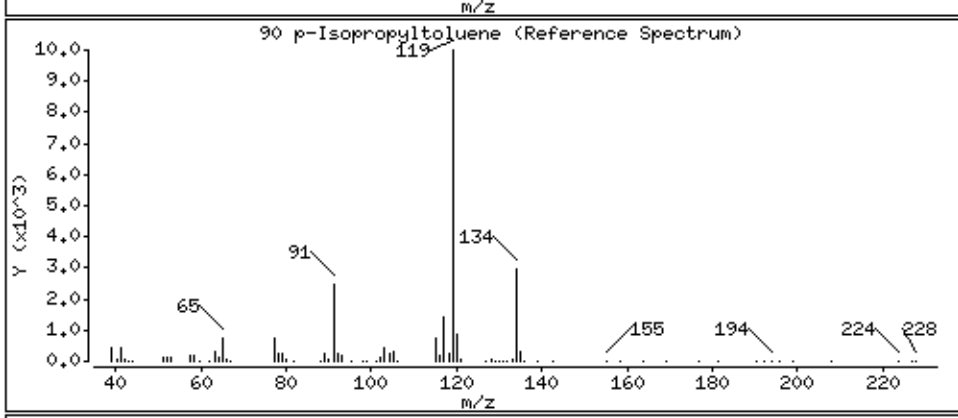
Column diameter: 0.18

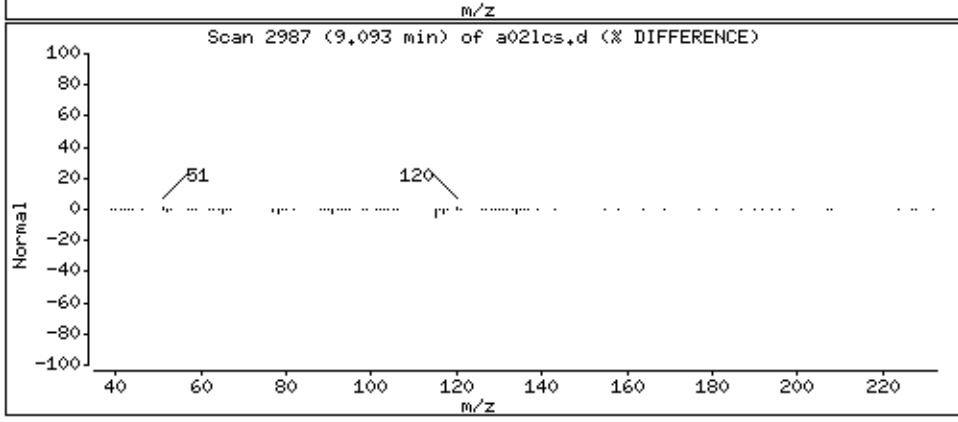
90 p-Isopropyltoluene

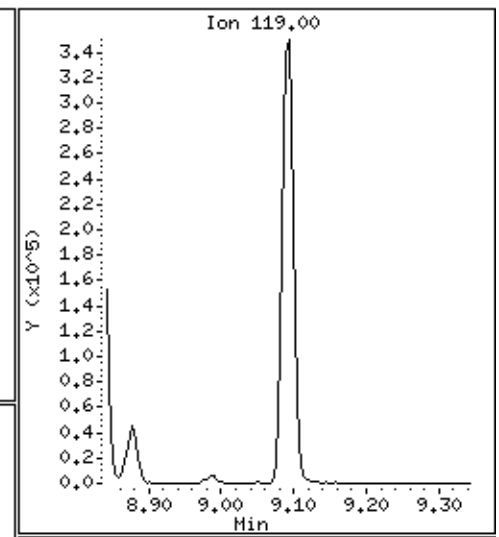
Concentration: 50.7 ppb

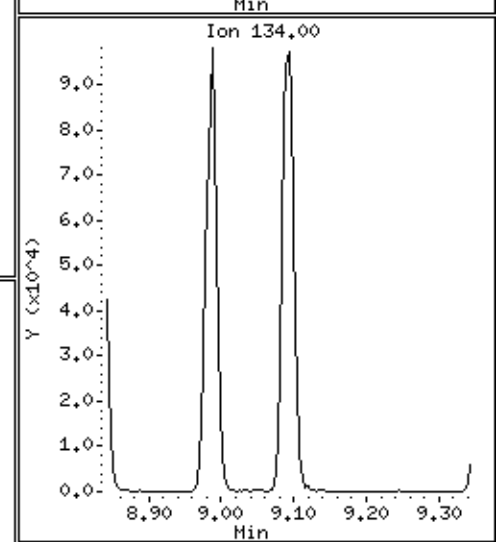


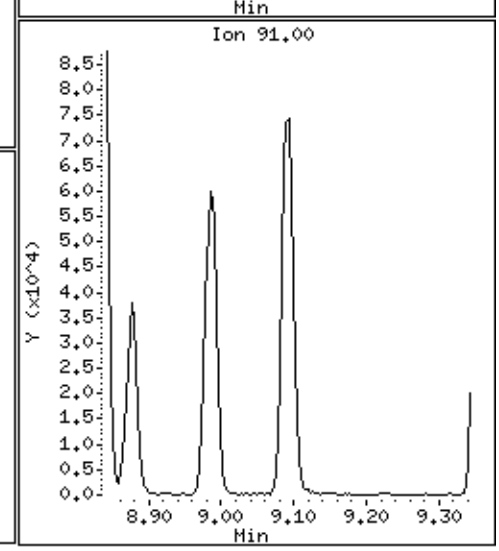












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

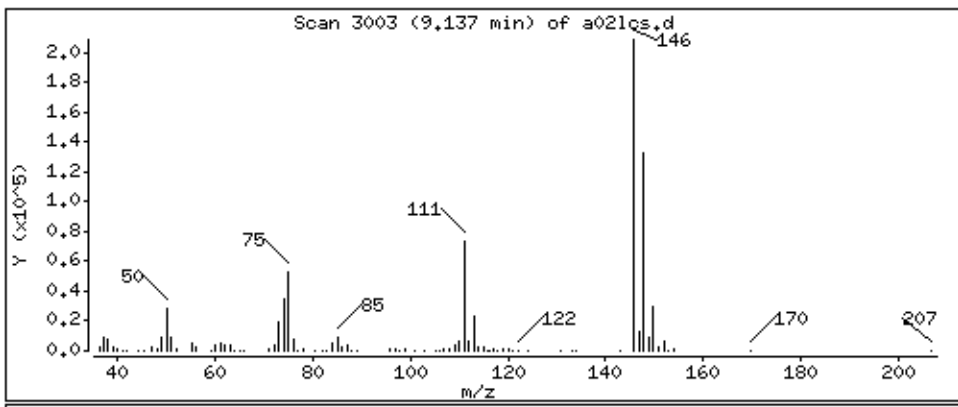
Operator: dae

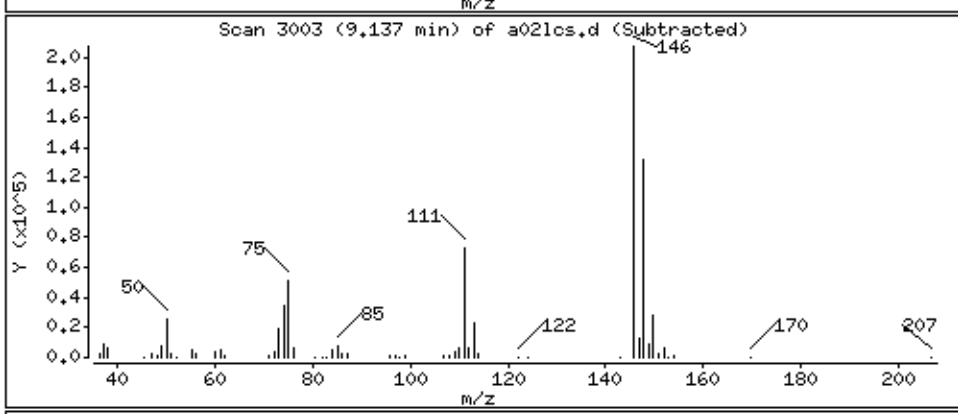
Column phase: DB-624

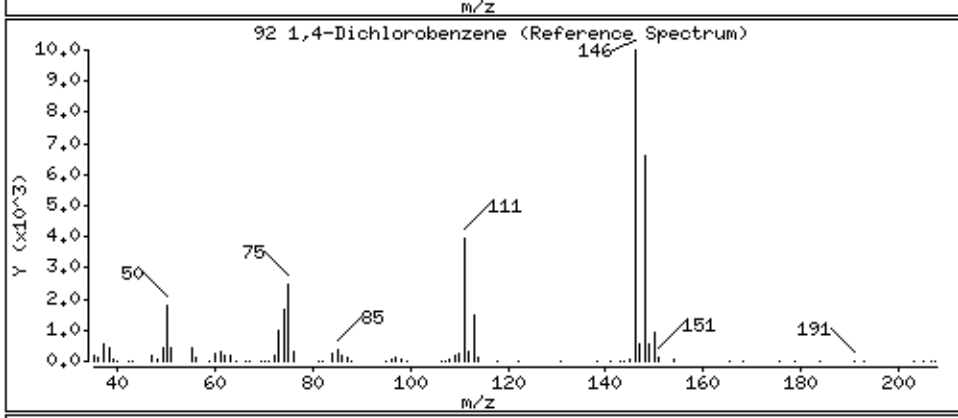
Column diameter: 0.18

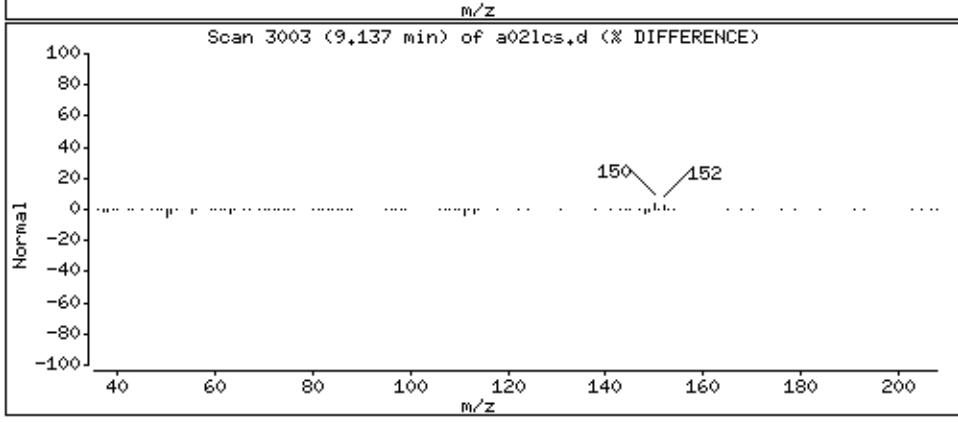
92 1,4-Dichlorobenzene

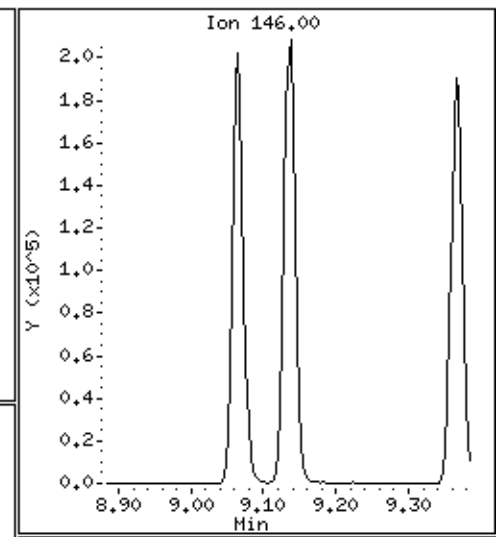
Concentration: 45.2 ppb

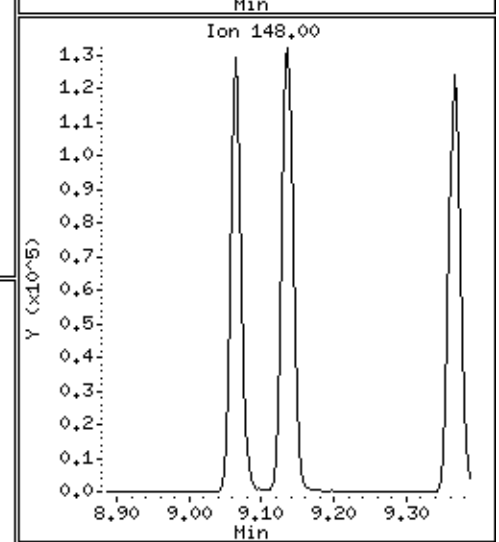


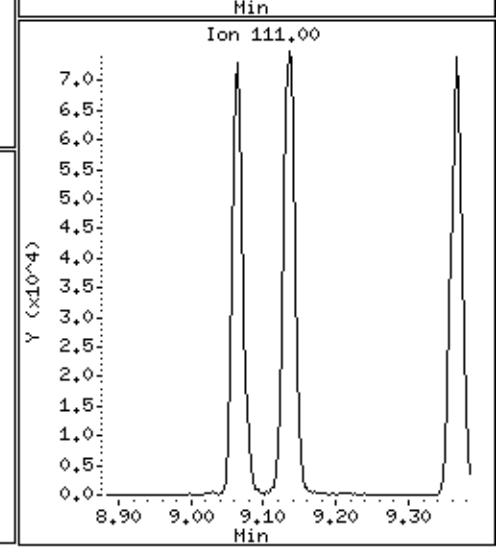












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

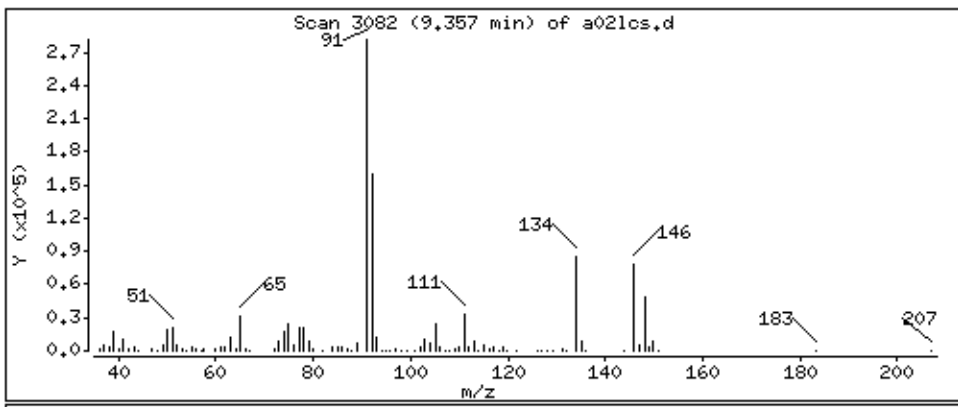
Operator: dae

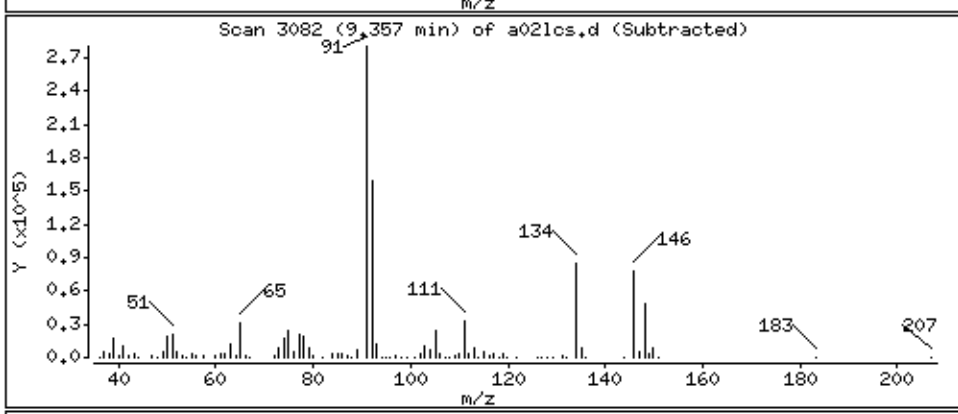
Column phase: DB-624

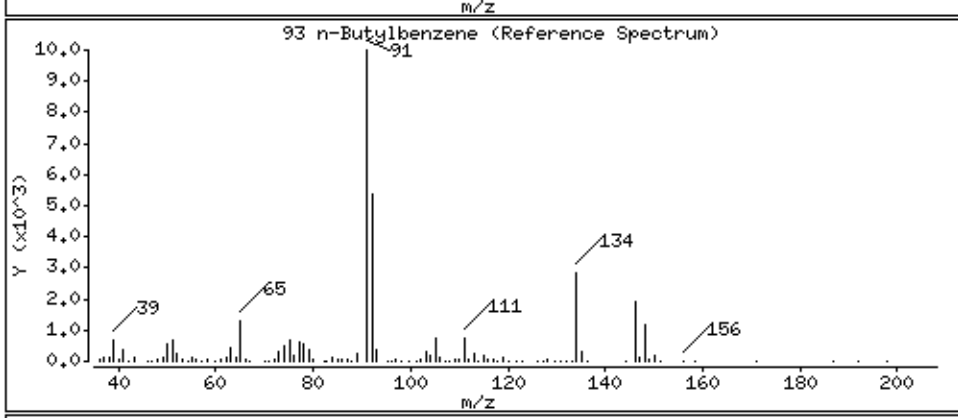
Column diameter: 0.18

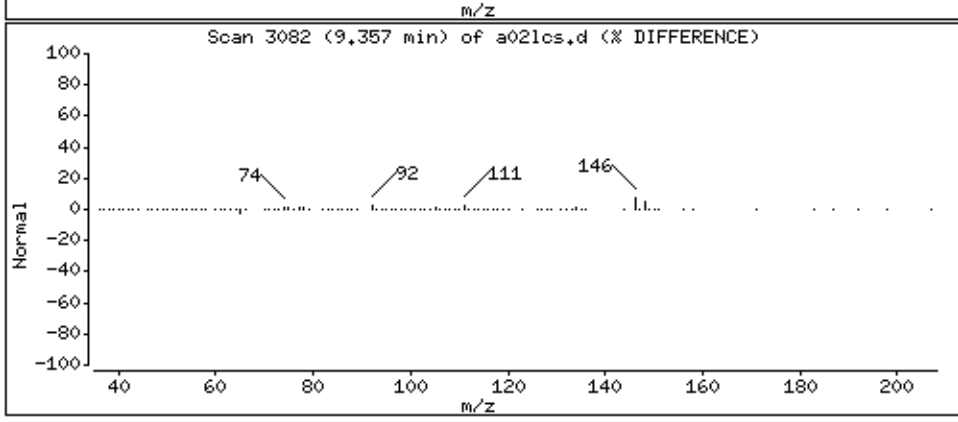
93 n-Butylbenzene

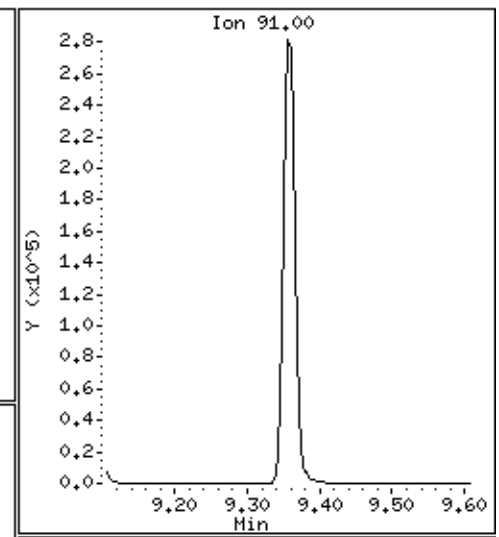
Concentration: 49.9 ppb

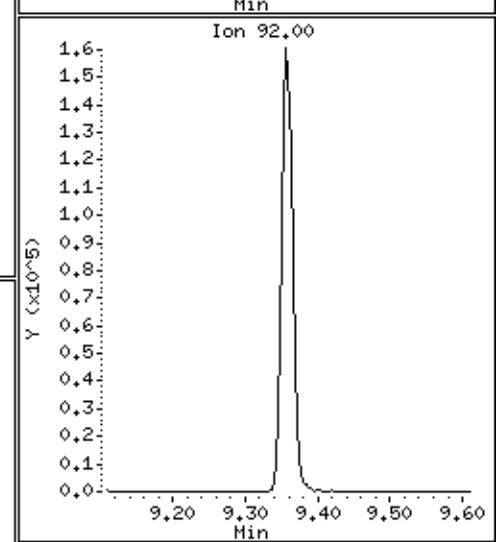


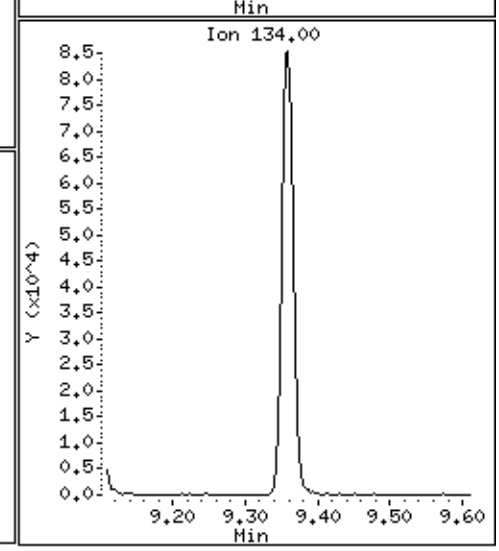












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

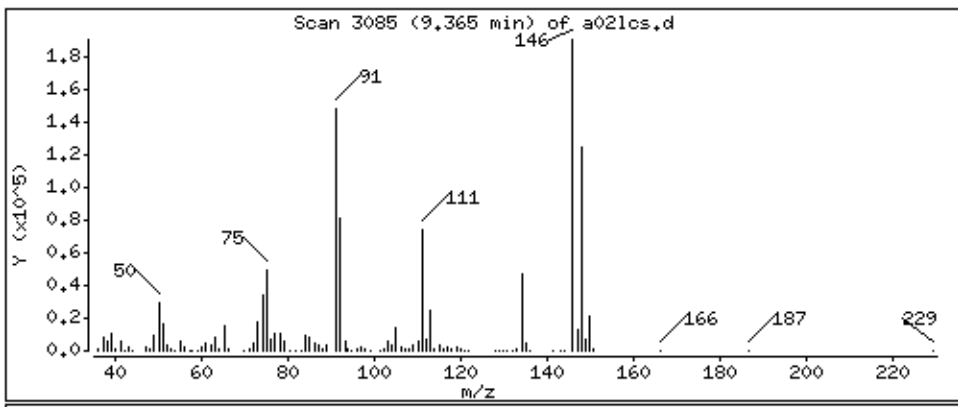
Operator: dae

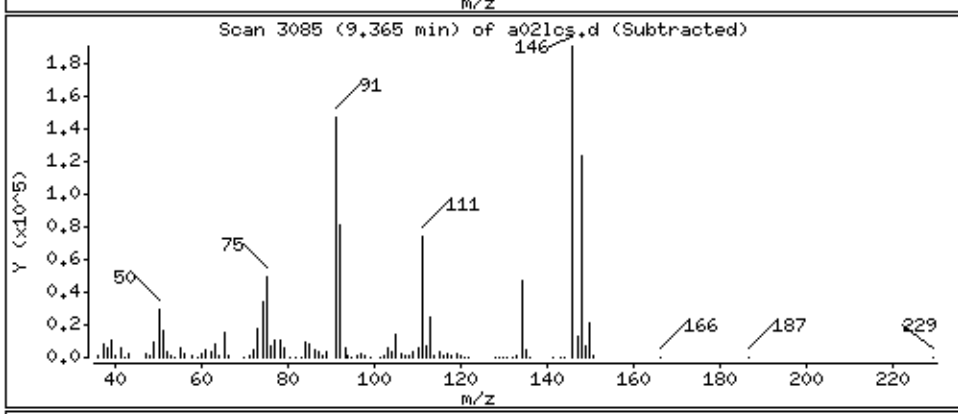
Column phase: DB-624

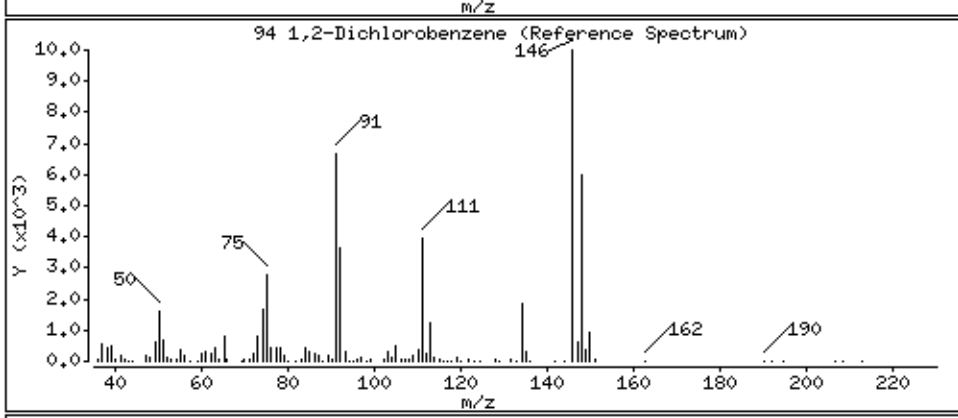
Column diameter: 0.18

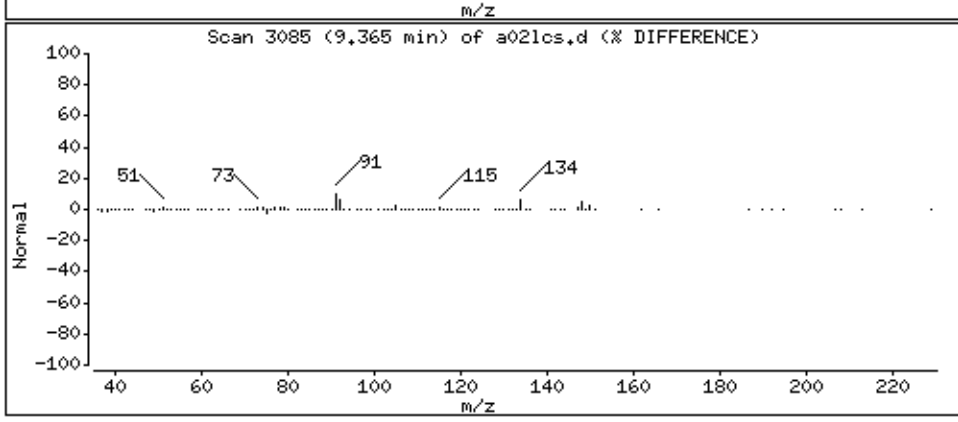
94 1,2-Dichlorobenzene

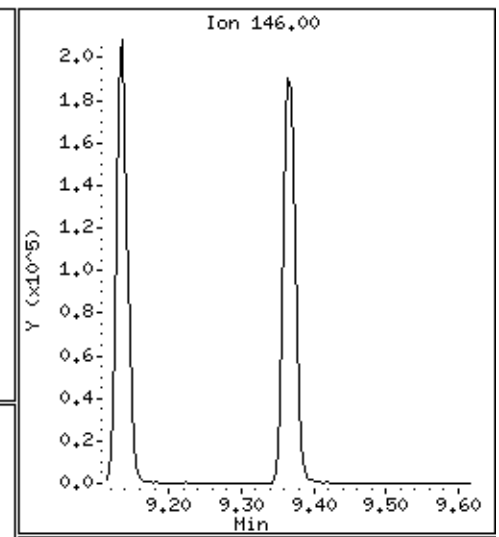
Concentration: 48.9 ppb

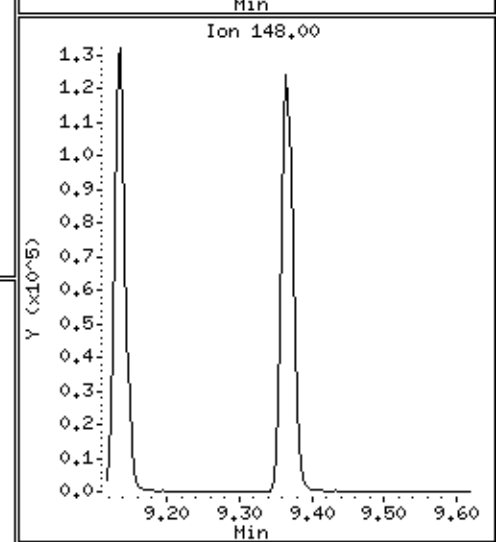


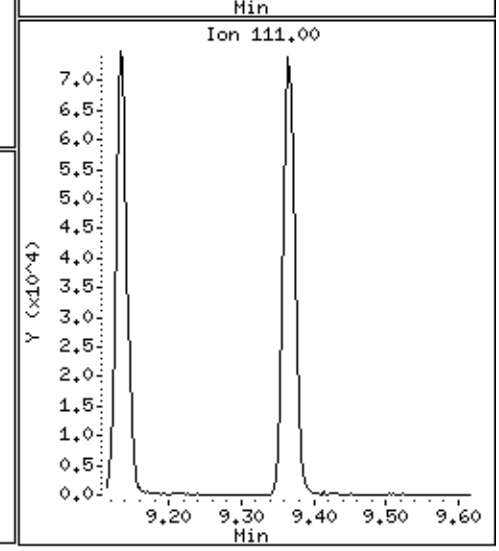












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

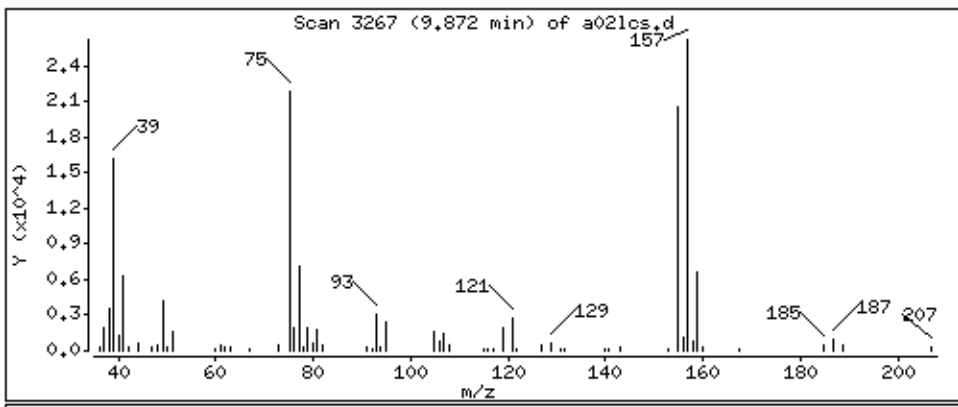
Operator: dae

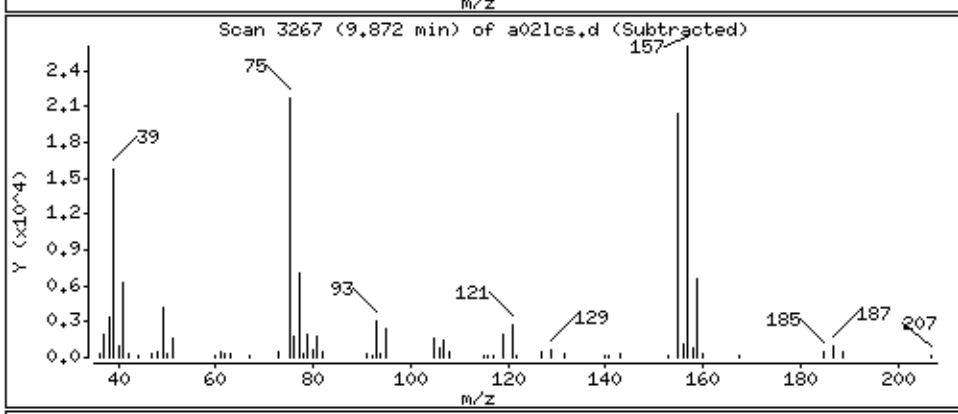
Column phase: DB-624

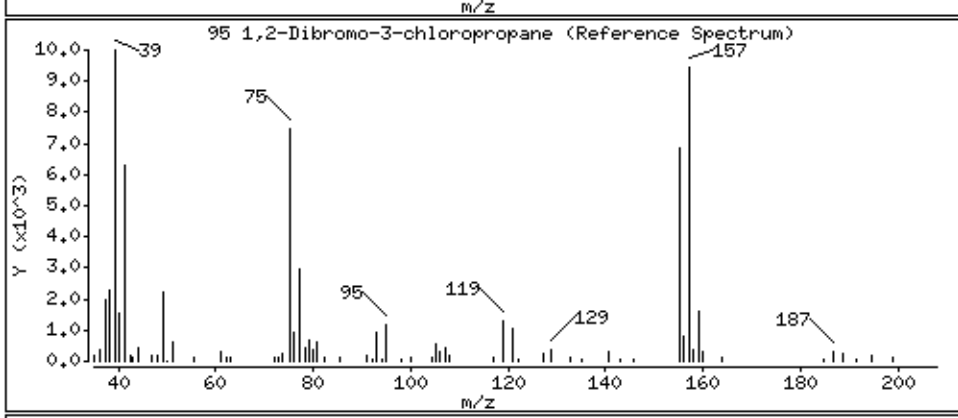
Column diameter: 0.18

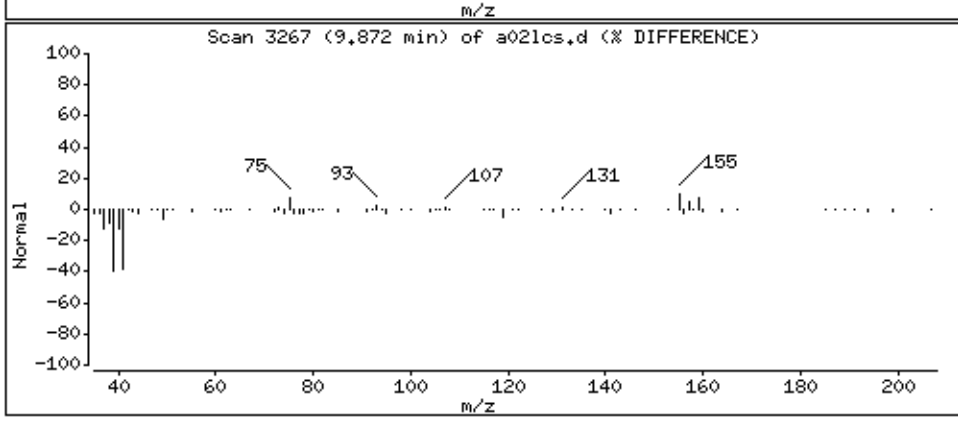
95 1,2-Dibromo-3-chloropropane

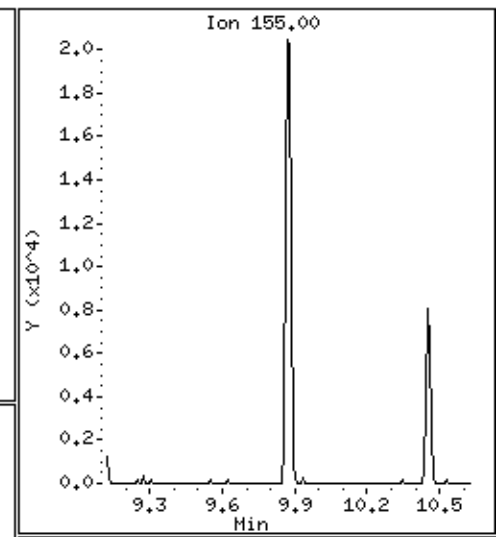
Concentration: 43.9 ppb

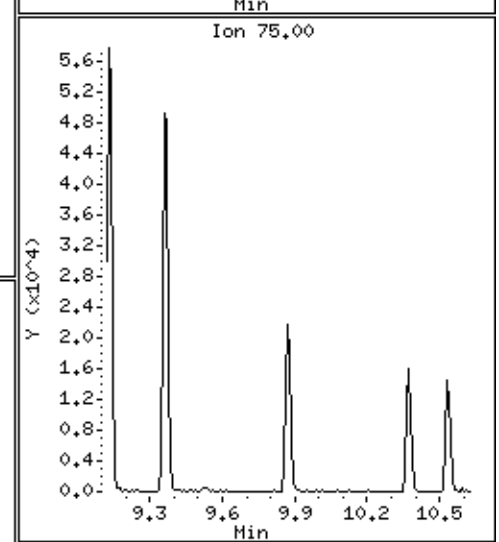


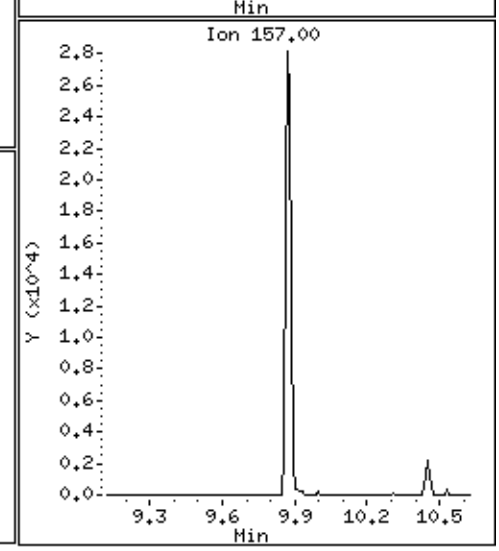












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

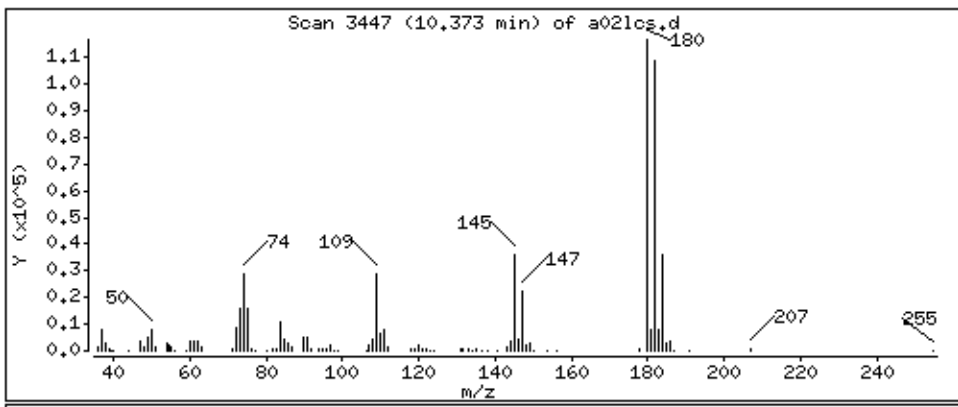
Operator: dae

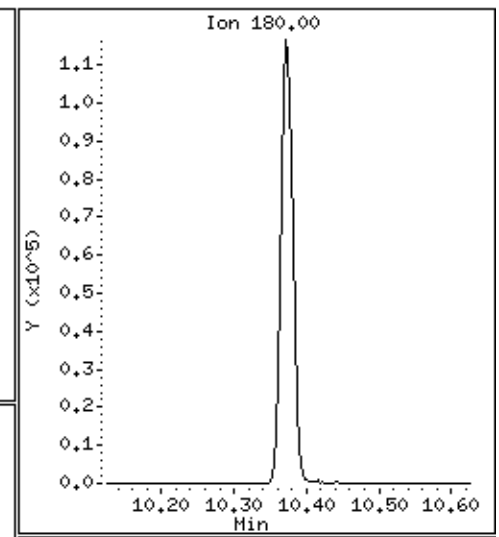
Column phase: DB-624

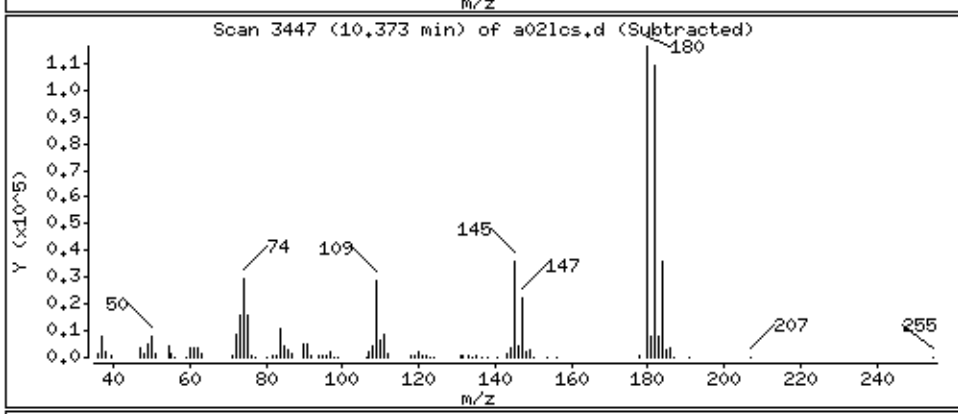
Column diameter: 0.18

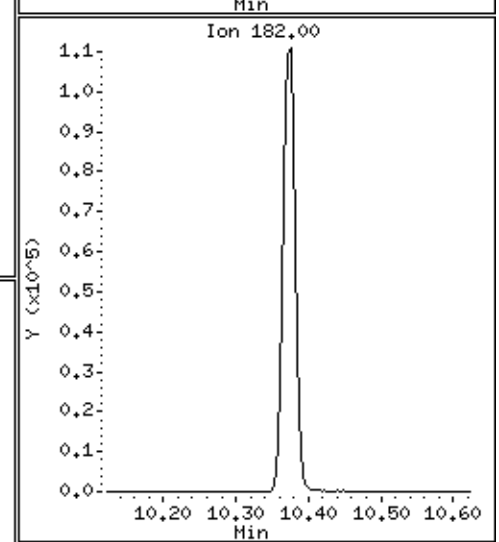
96 1,2,4-Trichlorobenzene

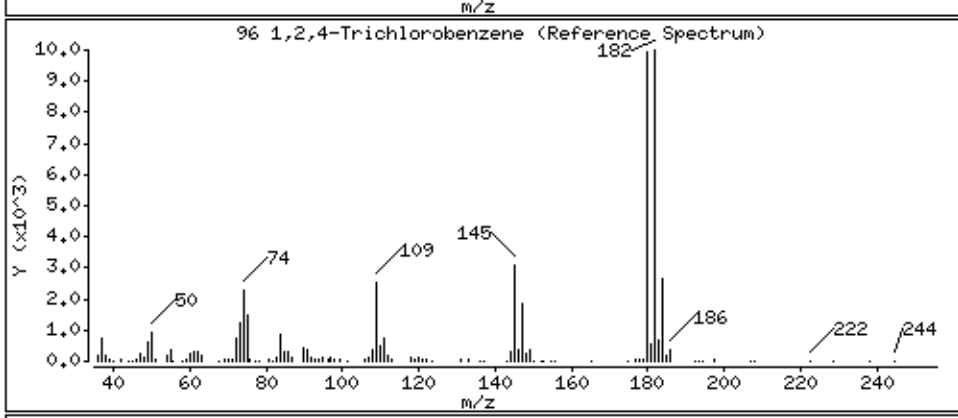
Concentration: 47.1 ppb

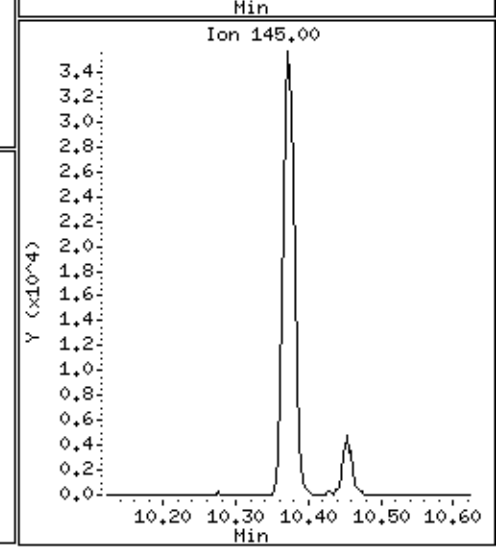


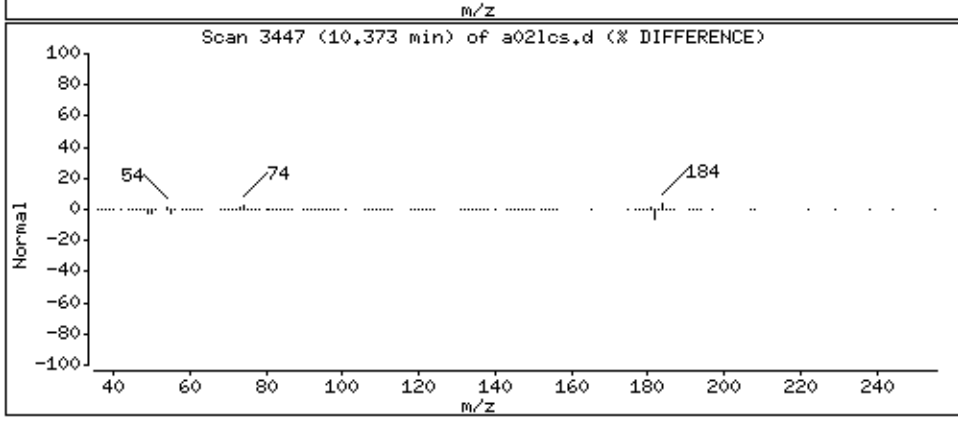












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

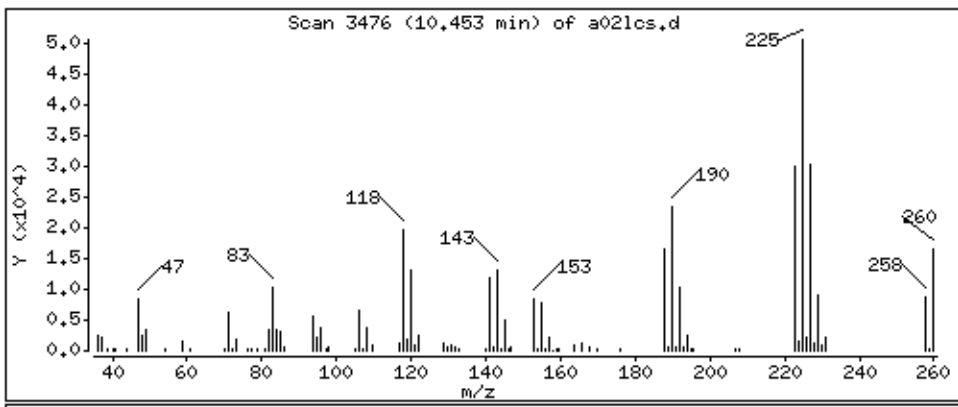
Operator: dae

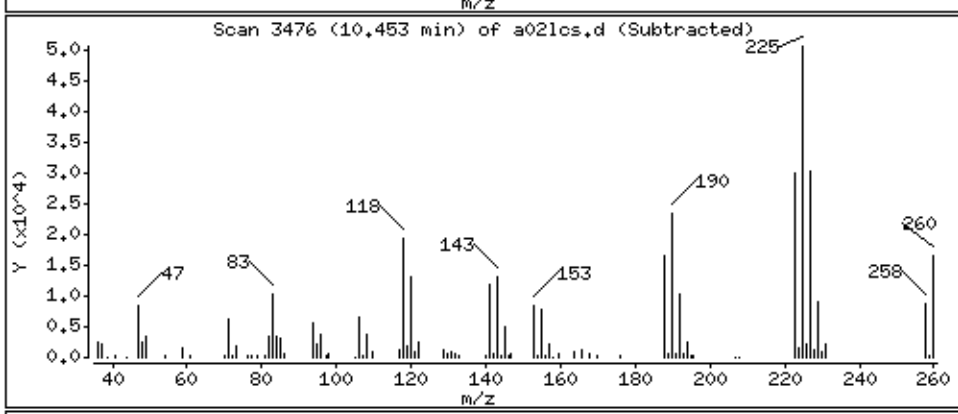
Column phase: DB-624

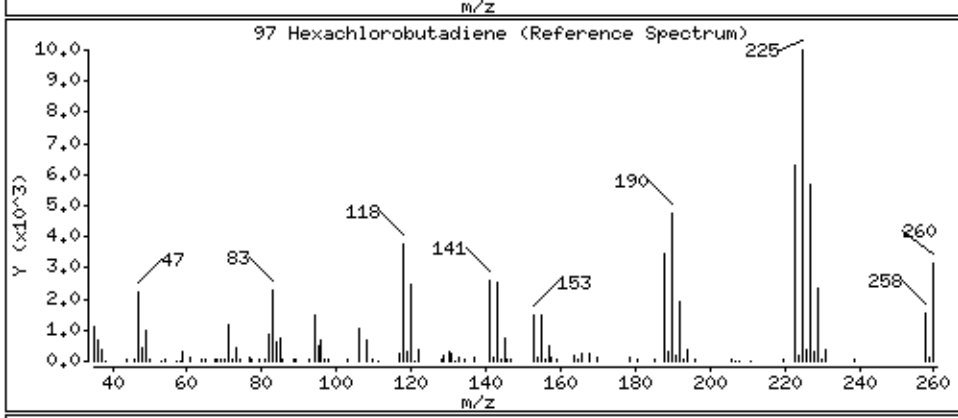
Column diameter: 0.18

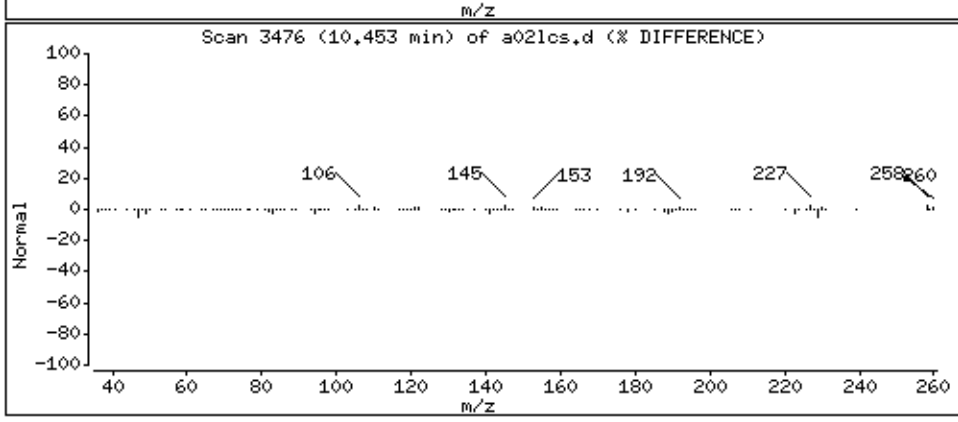
97 Hexachlorobutadiene

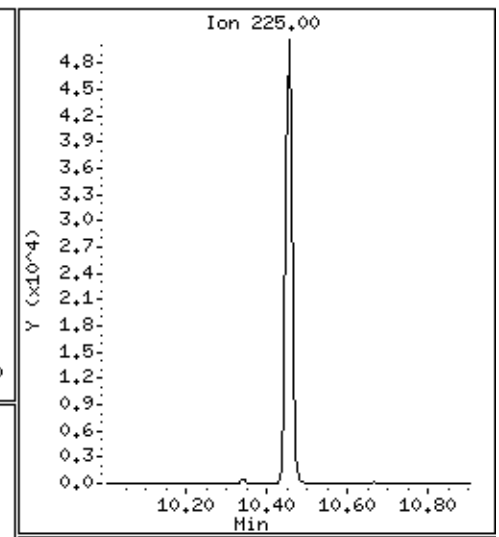
Concentration: 48.6 ppb

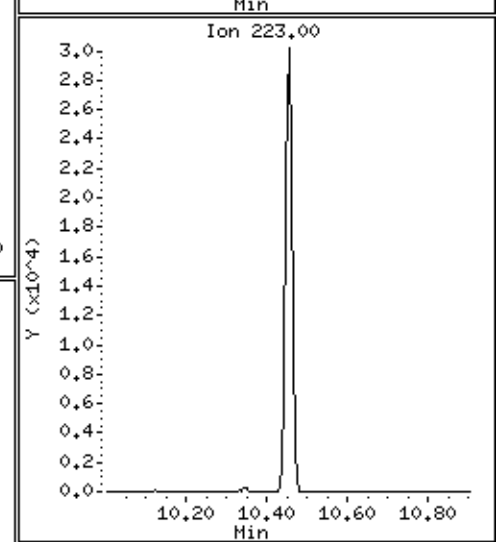


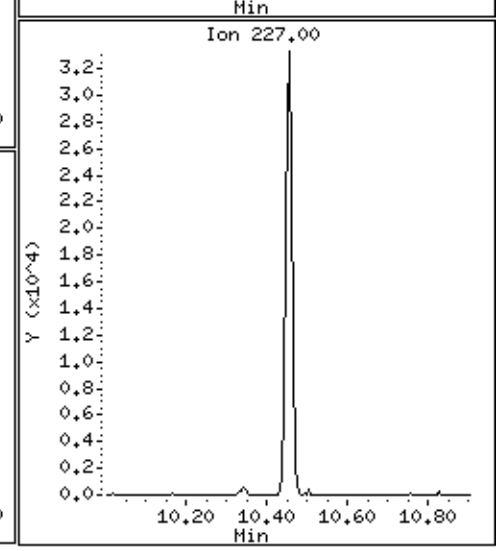












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

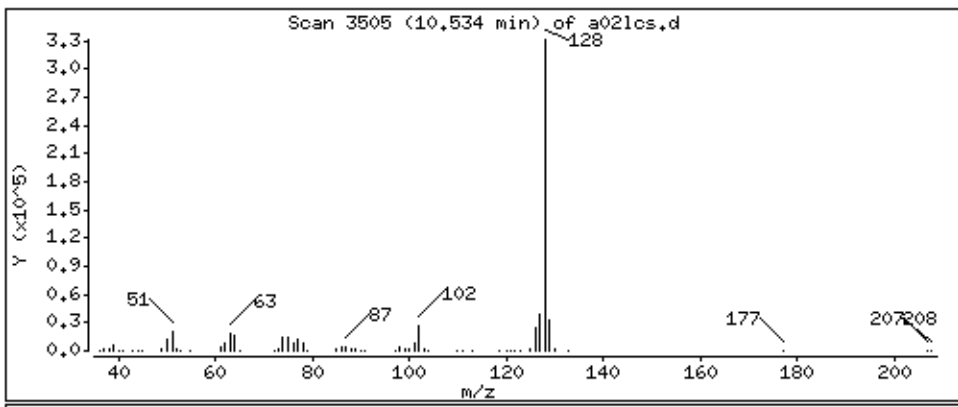
Operator: dae

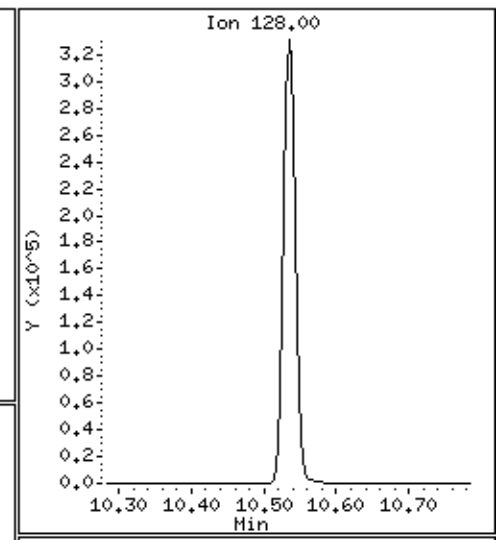
Column phase: DB-624

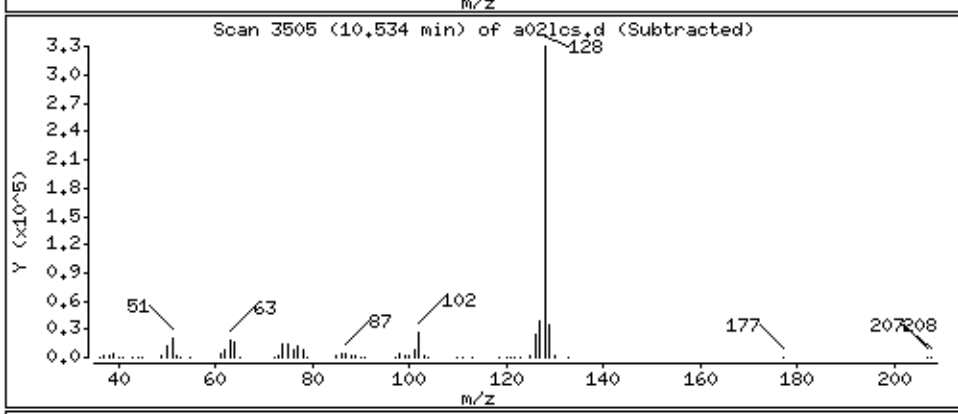
Column diameter: 0.18

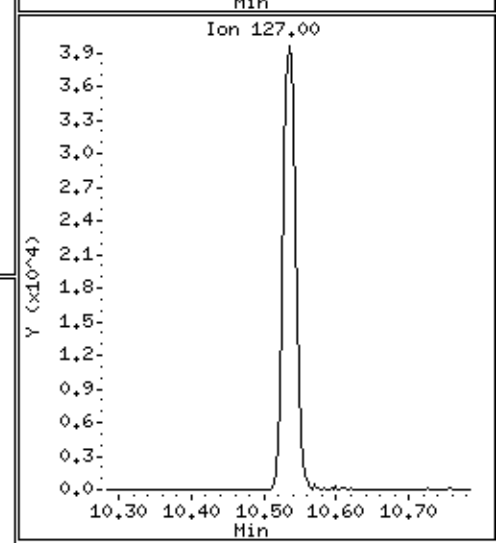
98 Naphthalene

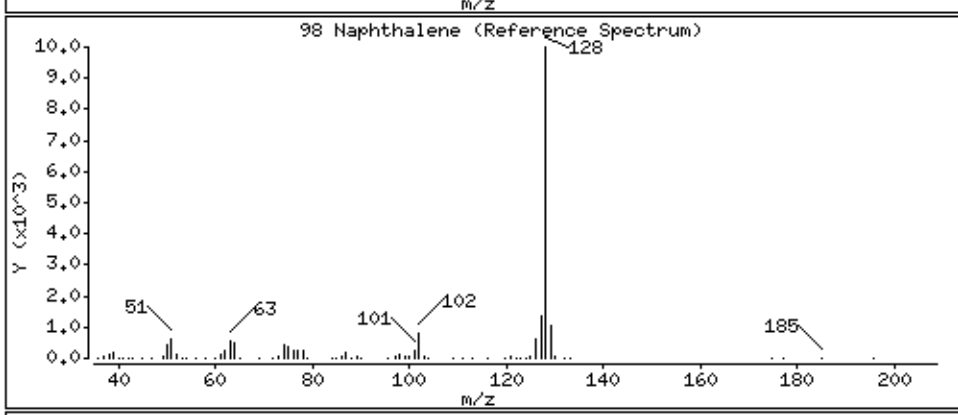
Concentration: 45.4 ppb

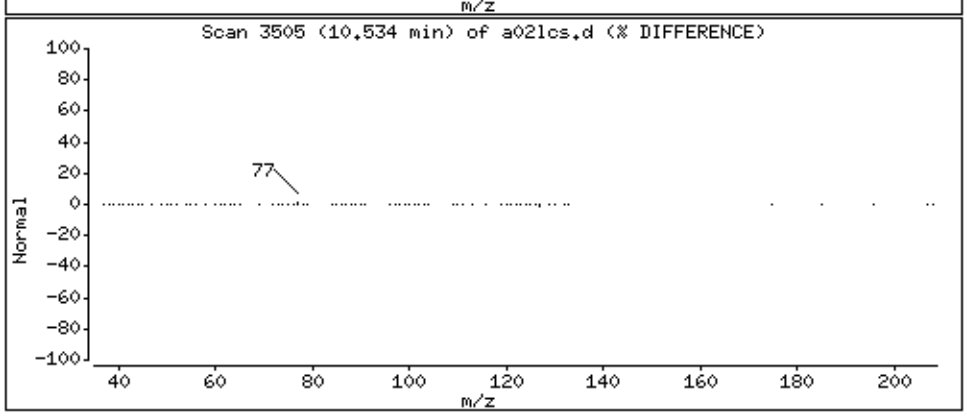












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

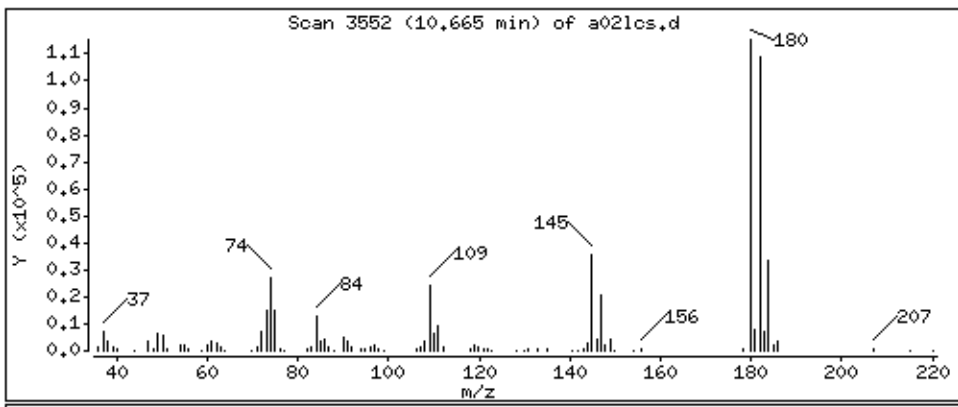
Operator: dae

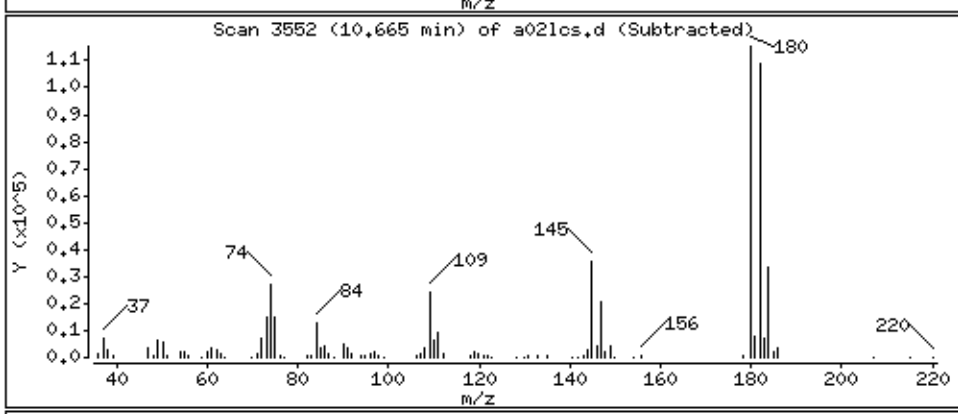
Column phase: DB-624

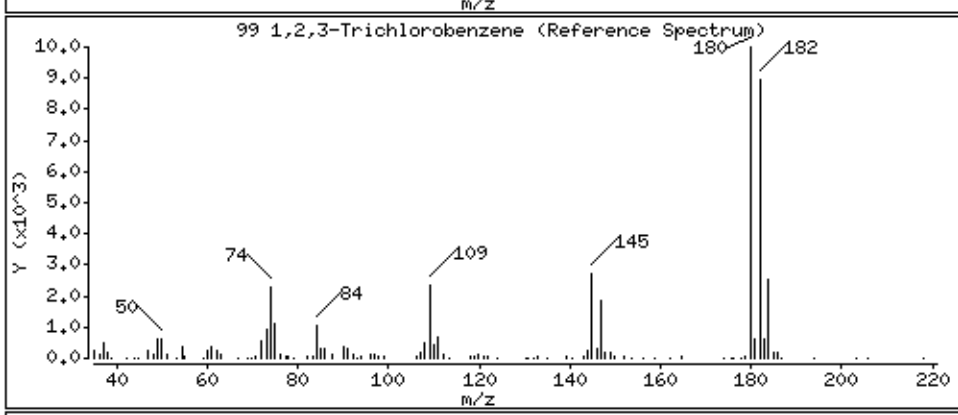
Column diameter: 0.18

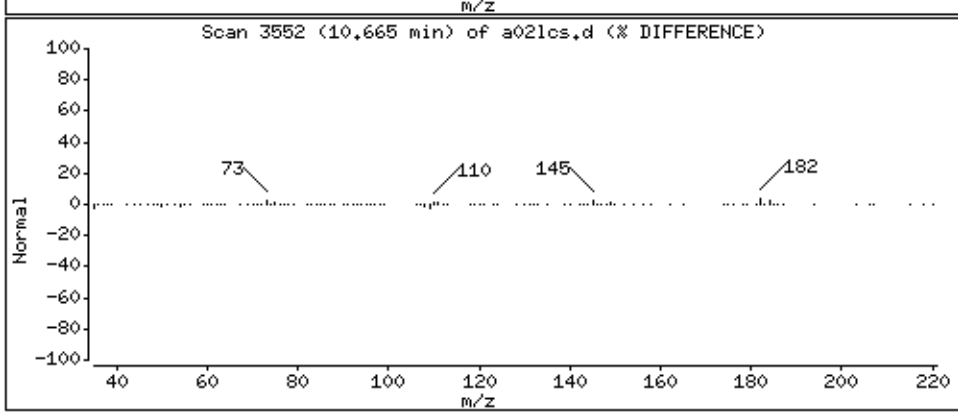
99 1,2,3-Trichlorobenzene

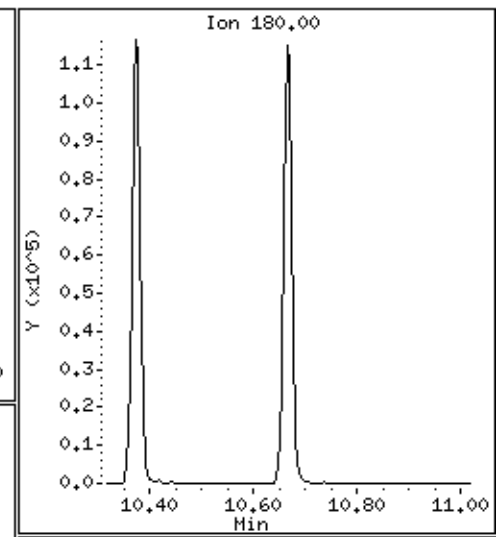
Concentration: 48.3 ppb

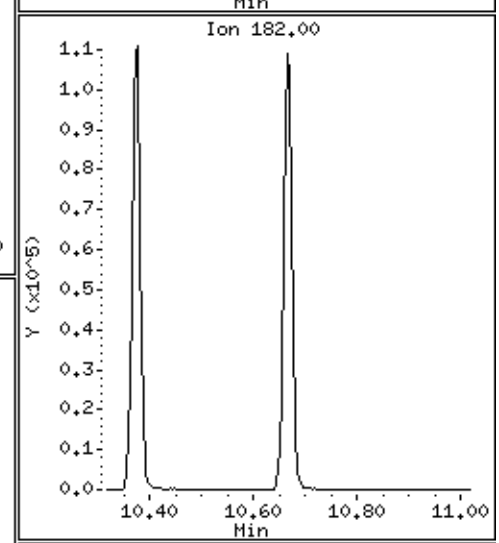


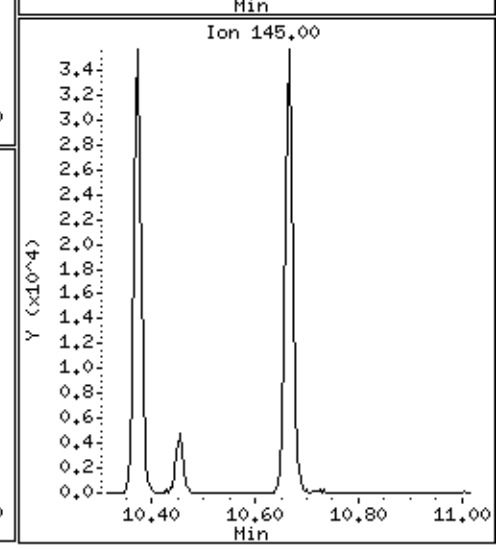












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Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

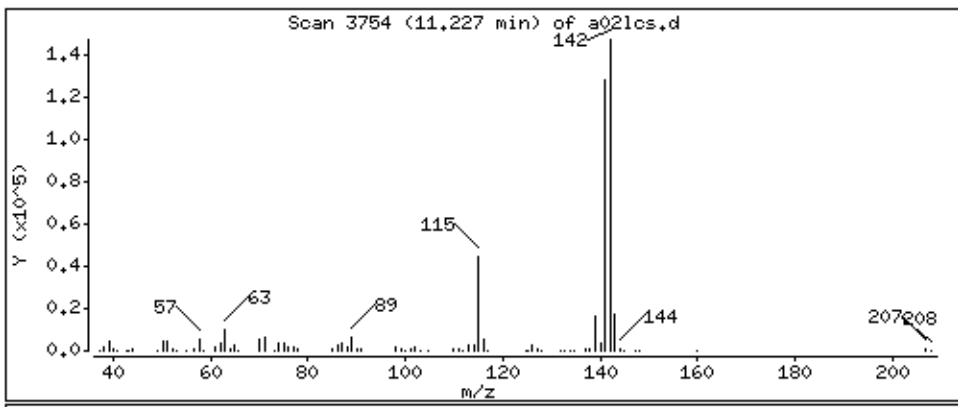
Operator: dae

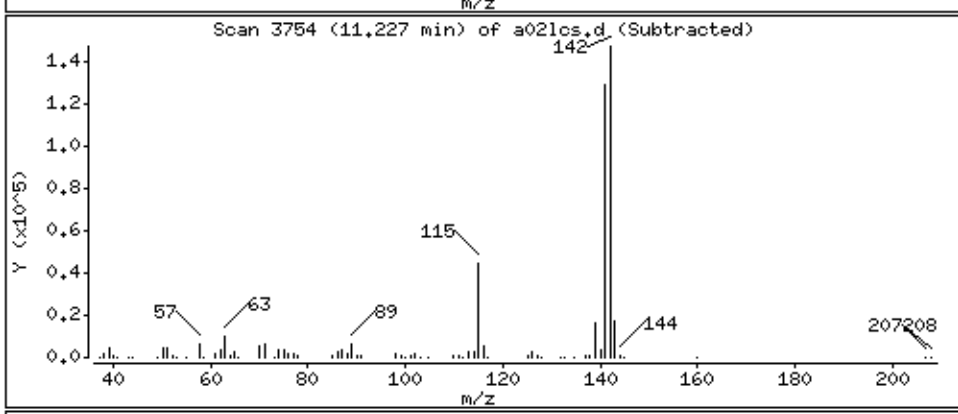
Column phase: DB-624

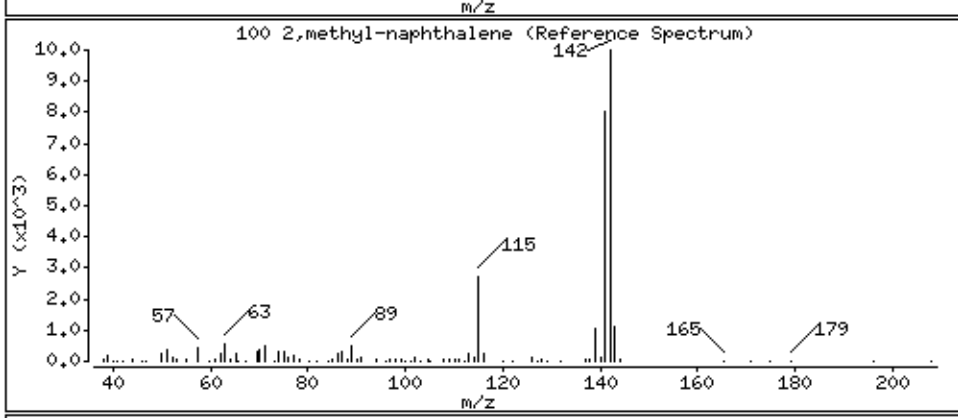
Column diameter: 0.18

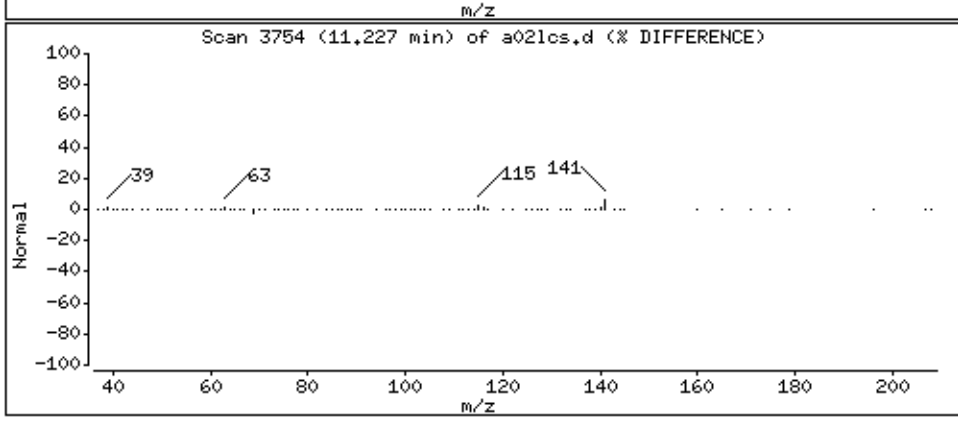
100 2,methyl-naphthalene

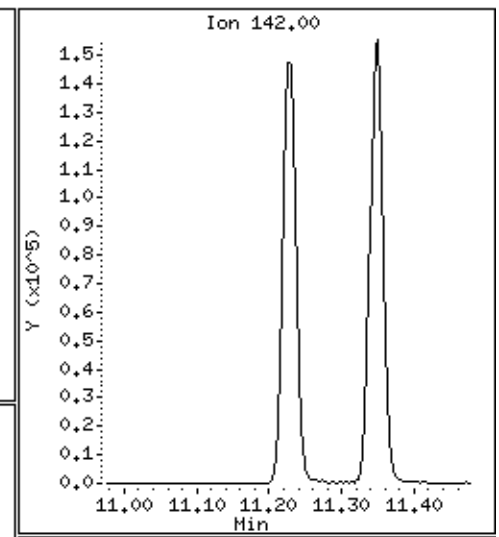
Concentration: 40.0 ppb

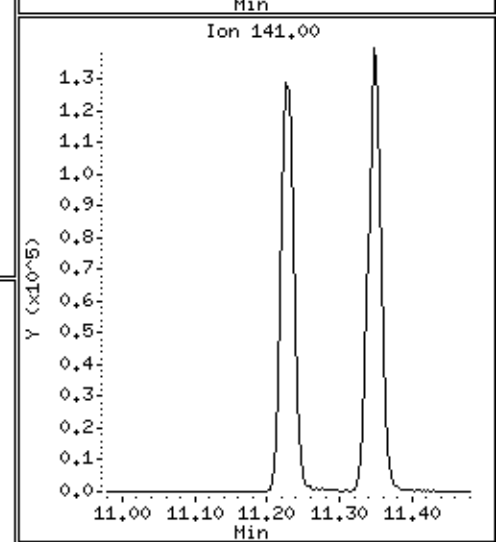


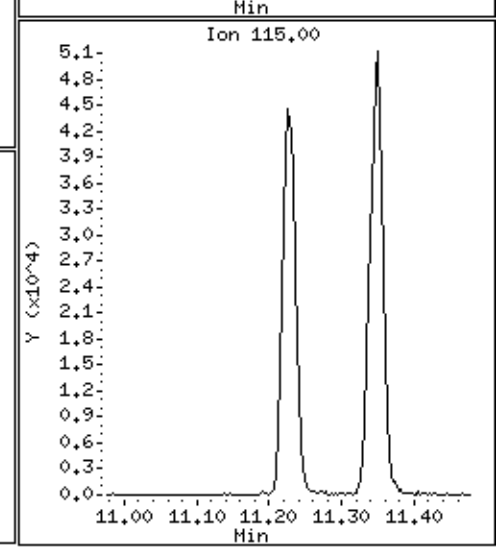












Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b\a02lcs.d

Date : 26-JAN-2017 00:44

Client ID: 1714602,140393:5

Instrument: 50mv2a.i

Sample Info: 1714602,140393:5

Purge Volume: 5.0

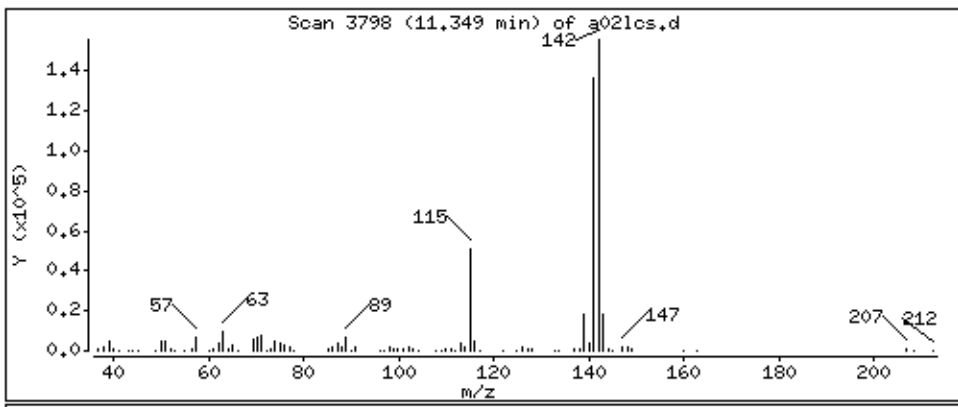
Operator: dae

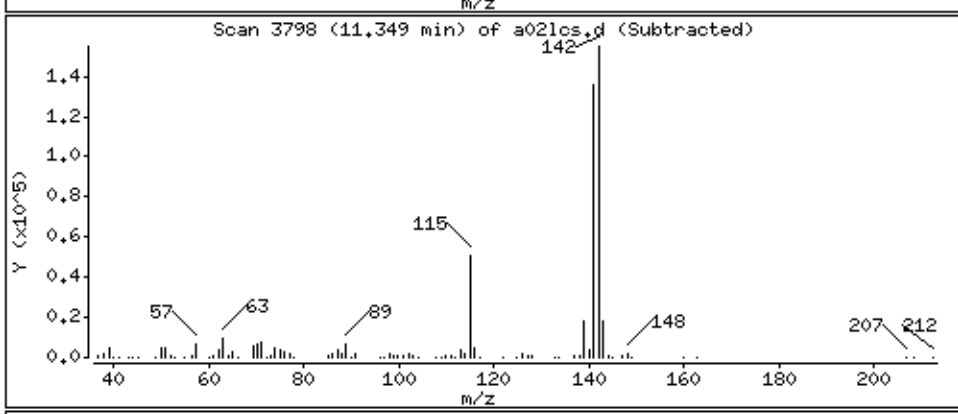
Column phase: DB-624

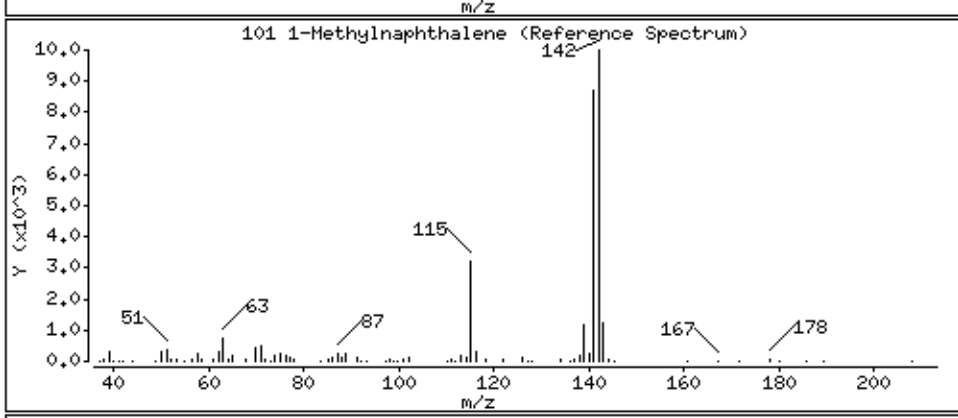
Column diameter: 0.18

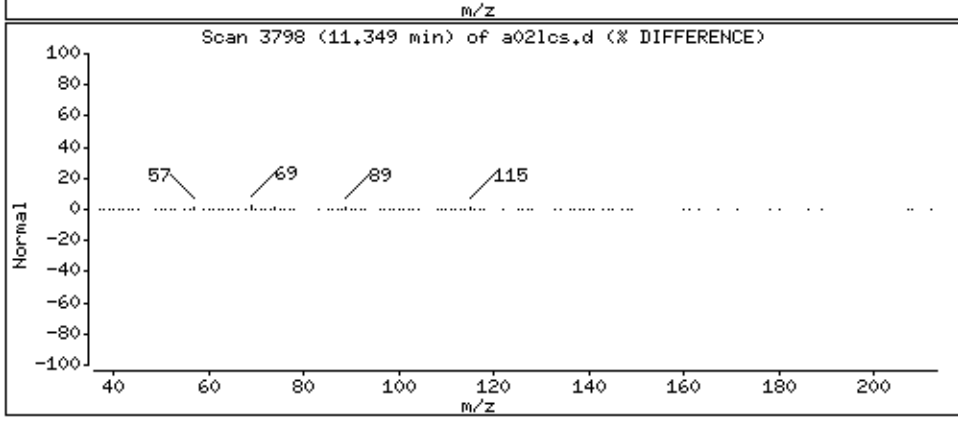
101 1-Methylnaphthalene

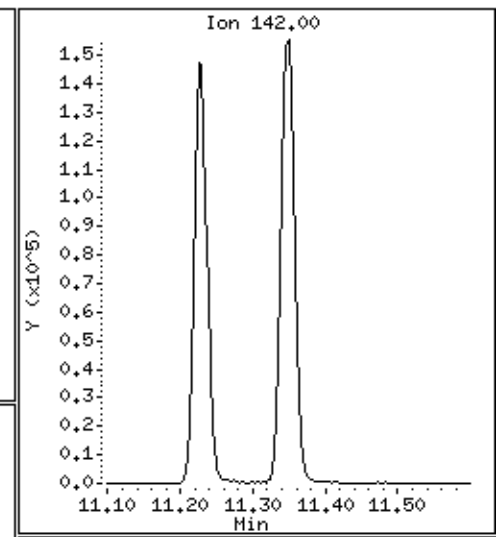
Concentration: 49.1 ppb

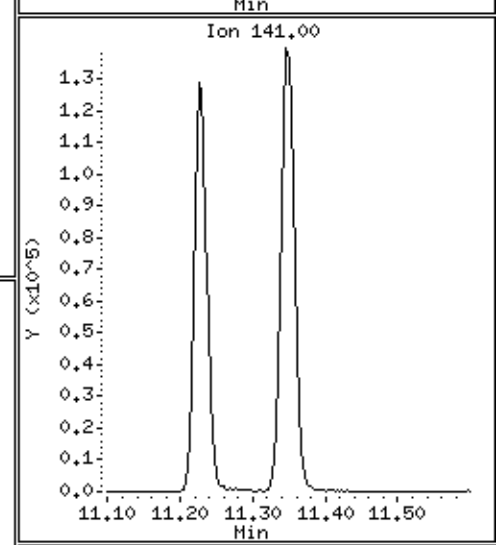


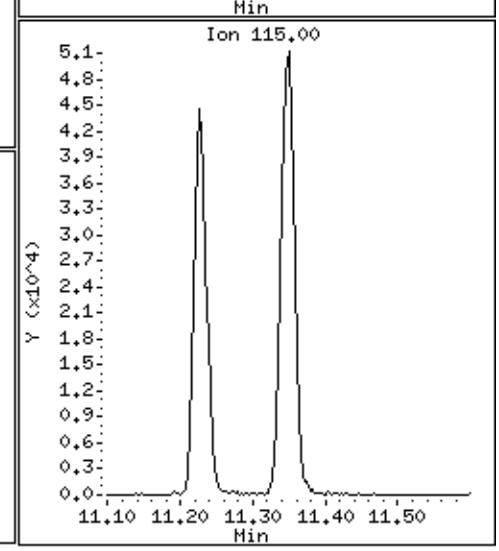






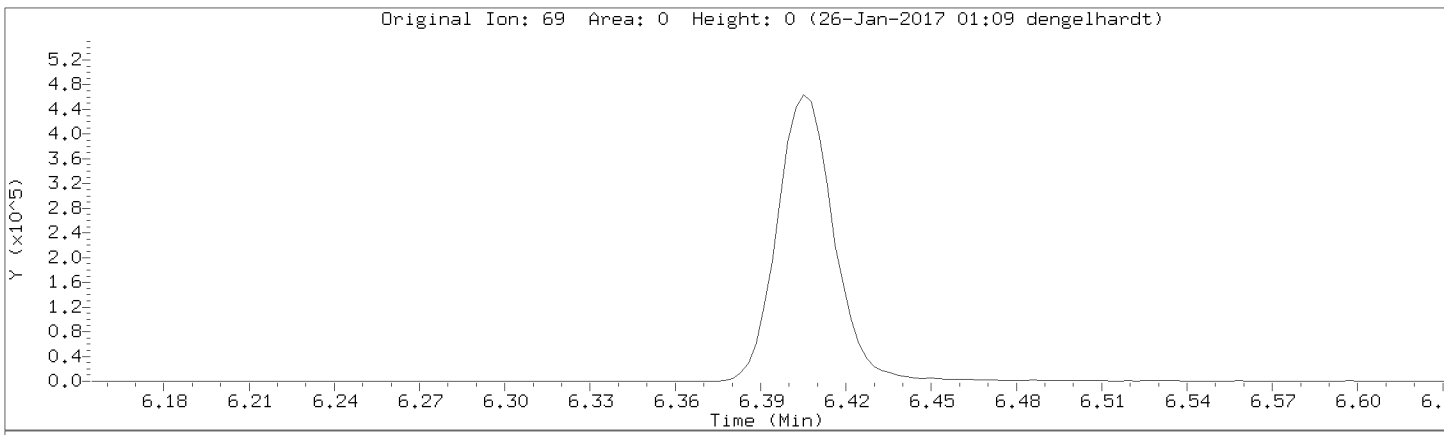


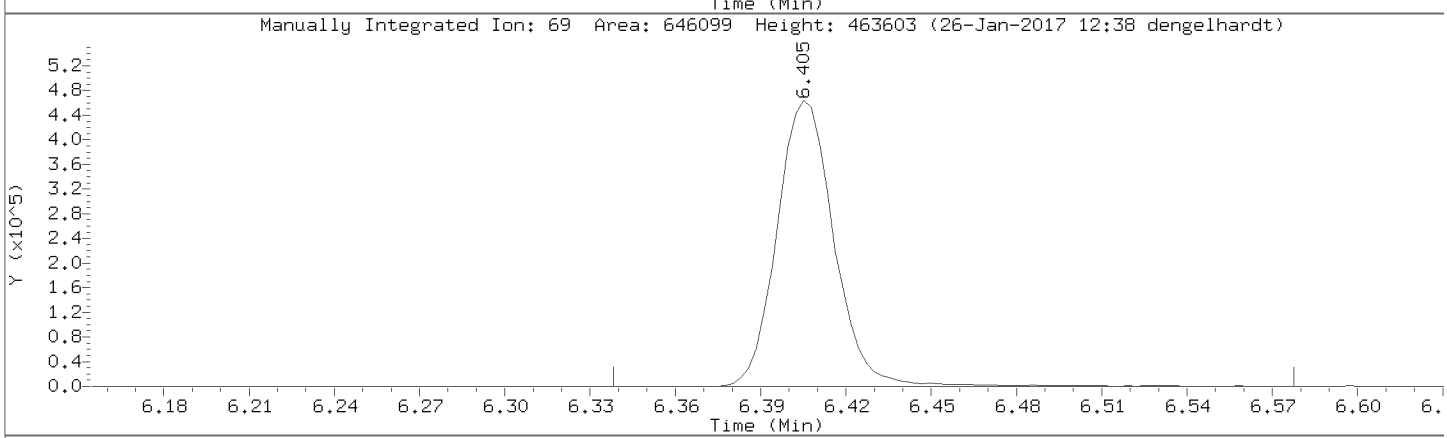


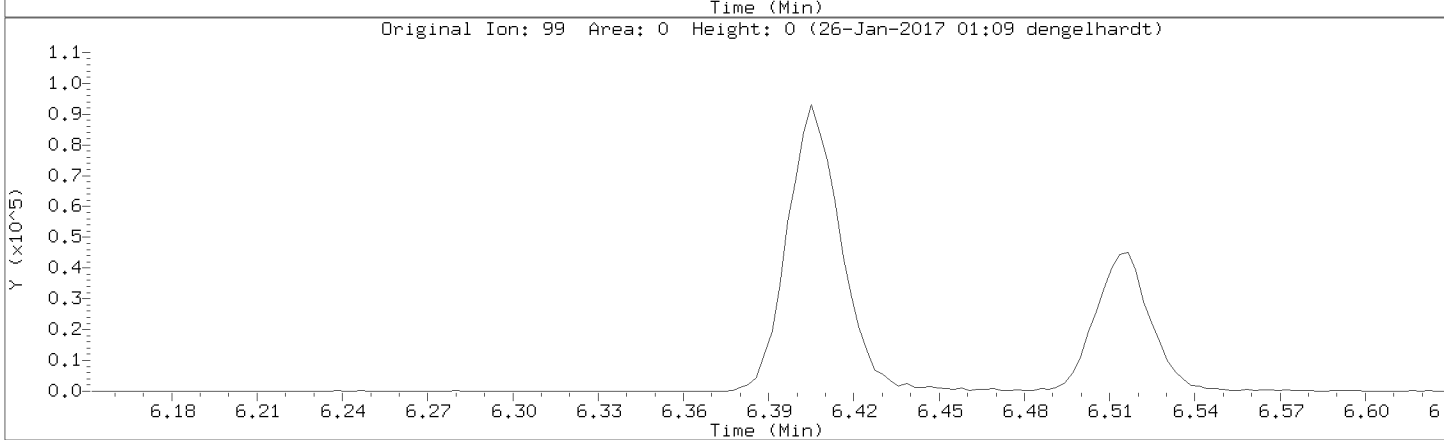


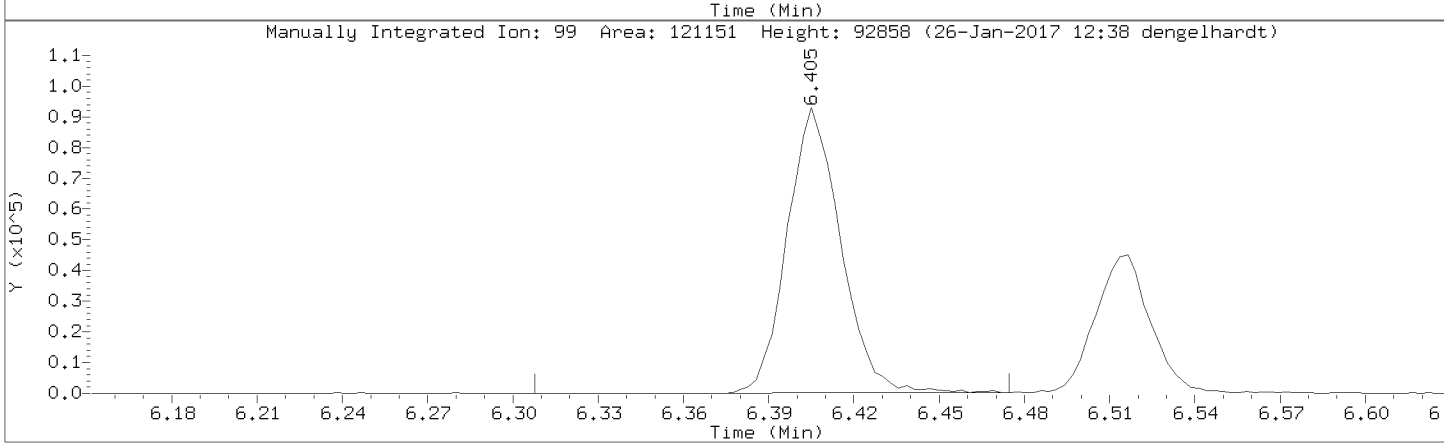
Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b/a02lcs.d
Injection Date: 26-JAN-2017 00:44
Instrument: 50mv2a.i
Lab Sample ID: 1714602,140393:5

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

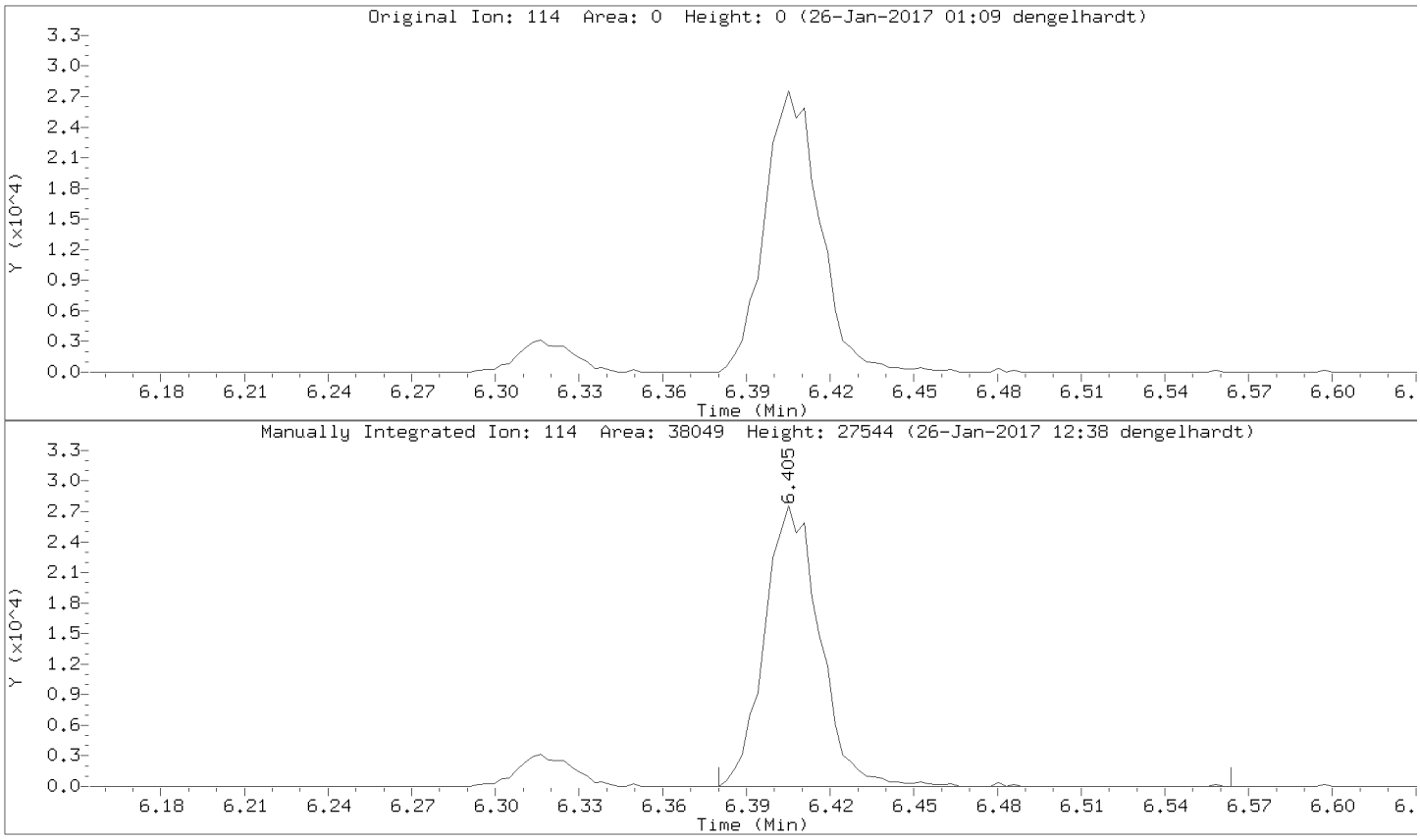








Data File: \\192.168.50.6\chem\50mv2a.i\a012517.b/a02lcs.d
Injection Date: 26-JAN-2017 00:44
Instrument: 50mv2a.i
Lab Sample ID: 1714602,140393:5



INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot: 139072:5
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,139073	L/99071	BFB	1	7	-bfb390/all	1/22/17	21:22	dae	new source
1/a01cal1.d	8260-CAL1,140426	L/99071	CALIB_1	1	<2	-a8260_a_c/all	1/22/17	21:54	dae	
1/a02cal2-mqc.d	8260-MQC-1ppb	L/99071	MQC	1	<2	-a8260_a_c/all	1/22/17	22:27	dae	
1/a02cal2.d	8260-CAL2,140427	L/99071	CALIB_2	1	<2	-a8260_a_c/all	1/22/17	22:27	dae	
1/a03cal3.d	8260-CAL3,140428	L/99071	CALIB_3	1	<2	-a8260_a_c/all	1/22/17	23:00	dae	
1/a04cal4-mqc.d	8260-MQC-5ppb	L/99071	MQC	1	<2	-a8260_a_c/all	1/22/17	23:33	dae	
1/a04cal4.d	8260-CAL4,140429	L/99071	CALIB_4	1	<2	-a8260_a_c/all	1/22/17	23:33	dae	
1/a05cal5.d	8260-CAL5,140430	L/99071	CALIB_5	1	<2	-a8260_a_c/all	1/23/17	00:05	dae	
1/a06cal6.d	8260-CAL6,140431	L/99071	CALIB_6	1	<2	-a8260_a_c/all	1/23/17	00:38	dae	
1/a07cal7.d	8260-CAL7,140432	L/99071	CALIB_7	1	<2	-a8260_a_c/all	1/23/17	01:11	dae	
1/a08cal8.d	8260-CAL8,140433	L/99071	CALIB_8	1	<2	-a8260_a_c/all	1/23/17	01:44	dae	
1/a09.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	02:17	dae	
1/a11icv.d	8260-ICV,140434:	L/99071	ICV	1	<2	-a8260_a_c/all	1/23/17	02:50	dae	
1/c00bfb.d	8260-TUNE,139073	L/99071	BFB	1	7	-bfb390/all	1/23/17	03:23	dae	
1/c01ccv.d	8260-CCV,140436:	L/98984	CCALIB_6	1	7	-a8260_a_c/all	1/23/17	03:56	dae	
1/c02lcs.d	1712567,140393:5	L/99074	LCS	1	7	-a8260_a_c/all	1/23/17	04:29	dae	
1/c03.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	05:02	dae	
1/c04mb.d	1712566	L/99074	BLANK	1	7	-a8260_a_c/all	1/23/17	05:35	dae	
1/c05.d	50162956009	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	06:07	dae	
1/c06.d	50162956010	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	06:41	dae	
1/c07.d	50162956011	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	07:13	dae	
1/c08.d	1712568,140393:5	L/99074	MS	1	<2	-a8260_a_c/all	1/23/17	07:46	dae	
1/c09.d	1712569,140393:5	L/99074	MSD	1	<2	-a8260_a_c/all	1/23/17	08:19	dae	
1/c10.d	50162956012	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	08:52	dae	rr 5x Tol↑ B↑
1/c11.d	50162956013	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	09:25	dae	
1/c12.d	50162956013X10	L/99074	SAMPLE	10	<2	-a8260_a_c/all	1/23/17	09:58	dae	
1/c13.d	50162956014	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	10:31	dae	
1/c14.d	50162956014X10	L/99074	SAMPLE	10	<2	-a8260_a_c/all	1/23/17	11:04	dae	
1/c15.d	50162956015	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	11:36	dae	
1/c16.d	50163164001	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	12:09	dae	
1/c17.d	50163164002	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	12:42	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012217cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 20:17 01/23/2017

Reviewed By/Date: DDB 1-23-17 Page: 1 of 2

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv2a.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection

ISTD lot: Surr. lot: 139072:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c18.d	50163164003	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	13:15	dae	
1/c19.d	50163164004	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	13:48	dae	
1/c20.d	50163164005	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	14:21	dae	
1/c21.d	50163164006	L/99074	SAMPLE	1	<2	-a8260_a_c/all	1/23/17	14:54	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012217cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 20:17 01/23/2017

Reviewed By/Date: DKB 1-23-17

Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot: 139072:5
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,139073	L/99072	BFB	1	7	-bfb390/all	1/22/17	21:38	dae	
1/b01cal1.d	8260-CAL1,140426	L/99072	CALIB_1	1	<2	-b8260_a_c/all	1/22/17	22:10	dae	
1/b02cal2-mqc.d	8260-MQC-1ppb	L/99072	MQC	1	<2	-b8260_a_c/all	1/22/17	22:43	dae	
1/b02cal2.d	8260-CAL2,140427	L/99072	CALIB_2	1	<2	-b8260_a_c/all	1/22/17	22:43	dae	
1/b03cal3.d	8260-CAL3,140428	L/99072	CALIB_3	1	<2	-b8260_a_c/all	1/22/17	23:16	dae	
1/b04cal4-mqc.d	8260-MQC-5ppb	L/99072	MQC	1	<2	-b8260_a_c/all	1/22/17	23:49	dae	
1/b04cal4.d	8260-CAL4,140429	L/99072	CALIB_4	1	<2	-b8260_a_c/all	1/22/17	23:49	dae	
1/b05cal5.d	8260-CAL5,140430	L/99072	CALIB_5	1	<2	-b8260_a_c/all	1/23/17	00:22	dae	
1/b06cal6.d	8260-CAL6,140431	L/99072	CALIB_6	1	<2	-b8260_a_c/all	1/23/17	00:55	dae	
1/b07cal7.d	8260-CAL7,140432	L/99072	CALIB_7	1	<2	-b8260_a_c/all	1/23/17	01:28	dae	
1/b08cal8.d	8260-CAL8,140433	L/99072	CALIB_8	1	<2	-b8260_a_c/all	1/23/17	02:01	dae	
1/b09.d	RINSE	L/	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	02:34	dae	
1/b11icv.d	8260-ICV,140434:	L/99072	ICV	1	<2	-b8260_a_c/all	1/23/17	03:07	dae	
1/d00bfb.d	8260-TUNE,139073	L/99072	BFB	1	7	-bfb390/all	1/23/17	03:39	dae	
1/d01ccv.d	8260-CCV,140436:	L/98985	CCALIB_6	1	7	-b8260_a_c/all	1/23/17	04:12	dae	
1/d02lcs.d	1712563,140393:5	L/99073	LCS	1	7	-b8260_a_c/all	1/23/17	04:45	dae	
1/d02lcsx.d	1712571,140393:5	L/99075	LCS	1	7	-b8260_a_c/all	1/23/17	04:45	dae	
1/d03.d	rinse	L/	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	05:18	dae	
1/d04mb.d	1712562	L/99073	BLANK	1	7	-b8260_a_c/all	1/23/17	05:51	dae	
1/d04mbx.d	1712570	L/99075	BLANK	1	7	-b8260_a_c/all	1/23/17	05:51	dae	
1/d05.d	50163290001	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	06:24	dae	
1/d06.d	1712564,140393:5	L/99073	MS	1	<2	-b8260_a_c/all	1/23/17	06:57	dae	
1/d07.d	1712565,140393:5	L/99073	MSD	1	<2	-b8260_a_c/all	1/23/17	07:30	dae	
1/d08.d	50163290002	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	08:03	dae	
1/d09.d	50163290003	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	08:36	dae	
1/d10.d	50163290004	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	09:09	dae	
1/d11.d	50163290005	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	09:41	dae	
1/d12.d	50163290006	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	10:14	dae	
1/d13.d	50163290007	L/99073	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	10:47	dae	
1/d14.d	50163164007	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	11:20	dae	
1/d15.d	50163164008	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	11:53	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2b.i\b012217cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 23:36 01/23/2017

Reviewed By/Date: DKB 12317 Page: 1 of 2

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv2b.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection

ISTD lot: Surr. lot: 139072:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d16.d	50163164010	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	12:26	dae	
1/d17.d	50163164011	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	12:59	dae	
1/d18.d	50163164012	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	13:32	dae	
1/d19.d	50163164013	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	14:05	dae	
1/d20.d	50163164013X5	L/99075	SAMPLE	5	<2	-b8260_a_c/all	1/23/17	14:37	dae	
1/d21.d	50163164014	L/99075	SAMPLE	1	<2	-b8260_a_c/all	1/23/17	15:11	dae	cc 10X

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2b.i\b012217cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 23:36 01/23/2017

Reviewed By/Date: DKB 1-23-17

Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot: 139072:5
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,139073	L/99071	BFB	1	7	-bfb390/all	1/24/17	22:41	dae	
1/a01ccv.d	8260-CCV,140436:	L/99071	CCALIB_6	1	7	-a8260_a_c/all	1/24/17	23:13	dae	
1/a02lcs.d	1713191,140393:5	L/99148	LCS	1	7	-a8260_a_c/all	1/24/17	23:46	dae	
1/a03.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	00:19	dae	
1/a04mb.d	1713790	L/99148	BLANK	1	7	-a8260_a_c/all	1/25/17	00:52	dae	
1/a05.d	50163372017	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	01:25	dae	
1/a06.d	50163373005	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	01:58	dae	
1/a07.d	50163372001	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	02:31	dae	cc 1000x
1/a08.d	50163372002	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	03:03	dae	cc 1:1 TCE ch
1/a09.d	50163372003	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	03:36	dae	cc 1:1
1/a10.d	1713792,140393:5	L/99148	MS	1	<2	-a8260_a_c/all	1/25/17	04:09	dae	
1/a11.d	1713793,140393:5	L/99148	MSD	1	<2	-a8260_a_c/all	1/25/17	04:42	dae	
1/a12.d	50163372004	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	05:15	dae	cc 1:1
1/a13.d	50163372005	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	05:48	dae	cc 1:1
1/a14.d	50163372005X20	L/99148	SAMPLE	20	<2	-a8260_a_c/all	1/25/17	06:21	dae	not needed
1/a15.d	50163372006	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	06:54	dae	
1/a16.d	50163372007	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	07:27	dae	
1/a17.d	50163372008	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	07:59	dae	
1/a18.d	50163372009	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	08:32	dae	
1/a19.d	50163372010	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	09:05	dae	cc 50x cis12, TCE↑
1/a20.d	50163372011	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	09:38	dae	cc 1:1 c/u ? TCE
1/a21.d	50163372012	L/99148	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	10:11	dae	
1/c00bfb.d	8260-TUNE,139073	L/99071	BFB	1	7	-bfb390/all	1/25/17	10:44	dae	
1/c01ccv.d	8260-CCV,140436:	L/99071	CCALIB_6	1	7	-a8260_a_c/all	1/25/17	11:17	dae	
1/c02lcs.d	1713802,140393:5	L/99150	LCS	1	7	-a8260_a_c/all	1/25/17	11:50	dae	
1/c03.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	12:23	dae	
1/c04mb.d	1713801	L/99150	BLANK	1	7	-a8260_a_c/all	1/25/17	12:56	dae	
1/c05.d	50163252008	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	15:22	dae	$↑ cc @ 50 & 2,000x
1/c06.d	50163373001	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	15:55	dae	cc 1x MB
1/c07.d	50163373002	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	16:28	dae	cc 1:1 MB
1/c08.d	1713803,140393:5	L/99150	MS	1	<2	-a8260_a_c/all	1/25/17	17:01	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012417.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 23:03 01/25/2017

Reviewed By/Date: [illegible] 1-25-17 Page: 1 of 2

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mv2a.i

Column DB-624 20m X 0.18mm Helium Method:

Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection

ISTD lot: Surr. lot: 139072:5

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c09.d	1713804,140393:5	L/99150	MSD	1	<2	-a8260_a_c/all	1/25/17	17:34	dae	
1/c10.d	50163373003	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	18:07	dae	
1/c11.d	50163373004	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	18:39	dae	
1/c12.d	50163486001X10	L/99150	SAMPLE	10	<2	-a8260_a_c/all	1/25/17	19:12	dae	D4
1/c13.d	50163486001X100	L/99150	SAMPLE	100	<2	-a8260_a_c/all	1/25/17	19:45	dae	
1/c14.d	50163486002X10	L/99150	SAMPLE	10	<2	-a8260_a_c/all	1/25/17	20:18	dae	D4
1/c15.d	50163486002X100	L/99150	SAMPLE	100	<2	-a8260_a_c/all	1/25/17	20:51	dae	
1/c16.d	50163486003	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	21:24	dae	
1/~~c17~~.d	50163486003X20	L/99150	SAMPLE	20	<2	-a8260_a_c/all	1/25/17	21:57	dae	not needed
1/c18.d	50163486005	L/99150	SAMPLE	1	<2	-a8260_a_c/all	1/25/17	22:30	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012417.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 23:03 01/25/2017

Reviewed By/Date: DBS 1.25.17

Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot: 139072:5
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,139073	L/99071	BFB	1	7	-bfb390/all	1/25/17	23:39	dae	
1/a01ccv.d	8260-CCV,	L/99071	CCALIB_6	1	7	-a8260_a_c/all	1/26/17	00:11	dae	
1/a02lcs.d	1714602,140393:5	L/99197	LCS	1	7	-a8260_a_c/all	1/26/17	00:44	dae	
1/a03.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/26/17	01:17	dae	
1/a04mb.d	1714601	L/99197	BLANK	1	7	-a8260_a_c/all	1/26/17	01:50	dae	
1/a05.d	50163495018X1.1	L/99151	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	02:23	dae	
1/a06.d	50163372001X50	L/99148	SAMPLE	50	<2	-a8260_a_c/all	1/26/17	02:56	dae	
1/a07.d	50163372001X2000	L/91148	SAMPLE	2000	<2	-a8260_a_c/all	1/26/17	03:29	dae	
1/a08.d	50163372010X50	L/99148	SAMPLE	50	<2	-a8260_a_c/all	1/26/17	04:02	dae	
1/a09.d	50163252008X50	L/99150	SAMPLE	50	<2	-a8260_a_c/all	1/26/17	04:35	dae	
1/a10.d	50163252008X1000	L/99150	SAMPLE	1000	<2	-a8260_a_c/all	1/26/17	05:08	dae	
1/a11.d	50163372002X1.1	L/99148	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	05:41	dae	
1/a12.d	50163372003X1.1	L/99148	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	06:14	dae	
1/a13.d	50163372004X1.1	L/99148	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	06:47	dae	
1/a14.d	50163372005X1.1	L/99148	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	07:20	dae	
1/a15.d	50163372011X1.1	L/99148	SAMPLE	1.1	<2	-a8260_a_c/all	1/26/17	07:52	dae	
1/a16.d	50163373001	L/99197	SAMPLE	1	<2	-a8260_a_c/all	1/26/17	08:25	dae	
1/a17.d	50163372018	L/99197	SAMPLE	1	<2	-a8260_a_c/all	1/26/17	08:58	dae	
1/a18.d	50163252007X50	L/99149	SAMPLE	50	<2	-a8260_a_c/all	1/26/17	09:31	dae	
1/a19.d	50163252007X1000	L/99149	SAMPLE	1000	<2	-a8260_a_c/all	1/26/17	10:04	dae	
1/a20.d	50163164021X200	L/99108	SAMPLE	200	<2	-a8260_a_c/all	1/26/17	10:37	dae	
1/a21.d	50163144002X10	L/99152	SAMPLE	10	<2	-a8260_a_c/all	1/26/17	11:10	dae	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012517.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:47 01/26/2017

Reviewed By/Date: DKS 1.26.17 Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot: 139072:5
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,139073	L/99072	BFB	1	7	-bfb390/all	1/25/17	23:55	dae	
1/b01ccv.d	8260-CCV,140780:	L/99072	CCALIB_6	1	7	-b8260_a_c/all	1/26/17	00:28	dae	
1/b02lcs.d	1714610,140393:5	L/99200	LCS	1	7	-b8260_a_c/all	1/26/17	01:01	dae	
1/b02lcsx.d	1714604,140393:5	L/99198	LCS	1	7	-b8260_a_c/all	1/26/17	01:01	dae	
1/b02lcsy.d	1714606,140393:5	L/99199	LCS	1	7	-b8260_a_c/all	1/26/17	01:01	dae	
1/b03.d	RINSE	L/	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	01:34	dae	
1/b04mb.d	1714609	L/99200	BLANK	1	7	-b8260_a_c/all	1/26/17	02:06	dae	
1/b04mbx.d	1714603	L/99198	BLANK	1	7	-b8260_a_c/all	1/26/17	02:06	dae	
1/b04mby.d	1714605	L/99199	BLANK	1	7	-b8260_a_c/all	1/26/17	02:06	dae	
1/b05.d	50163373002X1.1	L/99148	SAMPLE	1.1	<2	-b8260_a_c/all	1/26/17	02:39	dae	
1/b06.d	50163144009	L/99199	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	03:13	dae	
1/b07.d	50163144004	L/99199	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	03:45	dae	
1/b08.d	1714607,140393:5	L/99199	MS	1	<2	-b8260_a_c/all	1/26/17	04:18	dae	Spike error
1/b09.d	1714608,140393:5	L/99199	MSD	1	<2	-b8260_a_c/all	1/26/17	04:51	dae	↓
1/b10.d	50163144006	L/99199	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	05:24	dae	
1/b11.d	50163144007	L/99199	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	05:57	dae	~~5% Prep Dilution~~
1/b12.d	50163486006	L/99198	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	06:30	dae	
1/b13.d	50163486007	L/99198	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	07:03	dae	
1/b14.d	50163486007X20	L/99198	SAMPLE	20	<2	-b8260_a_c/all	1/26/17	07:36	dae	
1/b15.d	50163486008	L/99198	SAMPLE	1	<2	-b8260_a_c/all	1/26/17	08:09	dae	
1/b20.d	50163432005,UST	L/99200	SAMPLE	1	<2	-b8260_a_c/UST	1/26/17	10:53	dae	
1/b21.d	1713164,140393:5	L/99108	MSD	1	<2	-b8260_a_c/all	1/26/17	11:26	dae	spike error

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv2b.i\b012517.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:04 01/26/2017

Reviewed By/Date: DAS 1-26-17 Page: 1 of 1

SAMPLE NO.

MW-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Lab Sample ID: 50163373001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	87.2		ug/L	1	01/26/2017 08:01

SAMPLE NO.

MW-2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Lab Sample ID: 50163373002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	68.4		ug/L	1	01/26/2017 08:03

SAMPLE NO.

MW-3

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Lab Sample ID: 50163373003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	126		ug/L	1	01/26/2017 08:14

SAMPLE NO.

FD-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Lab Sample ID: 50163373004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-92-1	Lead	44.6		ug/L	1	01/26/2017 08:16

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Initial Calibration Verification Source: 140515

Continuing Calibration Verification Source: 140516

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification			
	01/26/2017 07:24				01/26/2017 08:19			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	
Lead	1000	979	97.9	90-110	1000	972	97.2	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

CRDL Check Standard Source: 140345 Analysis Date/Time: 01/26/2017 07:29

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Lead	10.0	10.0	100.0	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract : Quick Shop-S&P Petro

Method Blank Matrix: Water Instrument ID: 50ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	01/26/2017 07:27	C	01/26/2017 08:21	C		C		C	1712434	C
Lead	4.0	U	4.0	U					ND	U

FORM IV INORGANIC-1

INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50ICP3 Solution A Run Date: 01/26/2017 07:40

ICS Source: 140497,140498 Solution AB Run Date: 01/26/2017 07:42

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	500000	100	500300	100.1	80-120
Calcium	500000	500000	457800	91.6	458100	91.6	80-120
Iron	200000	200000	190300	95.2	190500	95.3	80-120
Lead		500	3.922		429	85.8	80-120
Magnesium	500000	500000	502900	100.6	503200	100.6	80-120

SAMPLE NO.

1712436MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water Basis: Wet Parent Sample ID: MW-2

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Lead	ug/L	75-125	890	68.4	1000	82

SAMPLE NO.

1712437MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water Basis: Wet Parent Sample ID: MW-2

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Lead	ug/L	75-125	876	68.4	1000	81

SAMPLE NO.

1714639PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water Parent Sample ID: MW-2

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Lead	ug/L	75-125	1	901	1	68.4	1000	83.3

SAMPLE NO.

1712437MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water Concentration Units: ug/L

Percent Moisture: _____ Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Lead	20	890	876	2

SAMPLE NO.

1712435LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Lead	ug/L	1000	937	94	80	120

SAMPLE NO.

1714640SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Matrix: Water Parent Sample ID: MW-2

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Lead	ug/L	68.4	70.8	3.4	10

% Difference not evaluated for parent results less than 50 times the reporting limit.

FORM XI - INORGANIC-1

LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract : Quick Shop-S&P Petro

Instrument ID: 50ICP3 Effective Date:01/28/2016

Analyte	Concentration (ug/L)
Lead	100000

FORM XII INORGANIC-1

PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Preparation Method: EPA 3010 Batch: MPRP 23936

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1712434	1712434BLANK	01/23/2017	50	50
1712435	1712435LCS	01/23/2017	25	25
1712436	1712436MS	01/23/2017	25	25
1712437	1712437MSD	01/23/2017	25	25
50163373001	MW-1	01/23/2017	50	50
50163373002	MW-2	01/23/2017	50	50
50163373003	MW-3	01/23/2017	50	50
50163373004	FD-1	01/23/2017	50	50

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50163373 Contract: Quick Shop-S&P Petro

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 01/26/2017 07:04 End Date: 01/26/2017 08:21

Sample Name	Lab Sample ID	D/F	Date	Time	Pb
10932396CAL0	10932396CAL0	1	01/26/2017	07:04	X
10932382CAL1	10932382CAL1	1	01/26/2017	07:09	X
10932389ICV	10932389ICV	1	01/26/2017	07:24	X
10932390ICB	10932390ICB	1	01/26/2017	07:27	X
10932391CRDL	10932391CRDL	1	01/26/2017	07:29	X
10932392ICSA	10932392ICSA	1	01/26/2017	07:40	X
10932393ICSAB	10932393ICSAB	1	01/26/2017	07:42	X
1712435LCS	1712435	1	01/26/2017	07:56	X
1712434BLANK	1712434	1	01/26/2017	07:58	X
MW-1	50163373001	1	01/26/2017	08:01	X
MW-2	50163373002	1	01/26/2017	08:03	X
1712436MS	1712436	1	01/26/2017	08:05	X
1712437MSD	1712437	1	01/26/2017	08:08	X
1714639PDS	1714639	1	01/26/2017	08:10	X
1714640SD	1714640	1	01/26/2017	08:12	X
MW-3	50163373003	1	01/26/2017	08:14	X
FD-1	50163373004	1	01/26/2017	08:16	X
10932394CCV	10932394CCV	1	01/26/2017	08:19	X
10932395CCB	10932395CCB	1	01/26/2017	08:21	X

Sample Name: CAL0 Acquired: 1/26/2017 7:04:32 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0023	-.0001	.0002	.0019	-.0001
Stddev	.0000	.0000	.0000	.0000	.0003	.0001
%RSD	3.795	.9565	13.14	2.312	15.82	100.0
#1	.0000	.0023	-.0001	.0002	.0022	-.0002
#2	.0000	.0023	-.0001	.0002	.0017	-.0000

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0014	.0004	.0001	.0000	.0009	.0000
Stddev	.0000	.0001	.0001	.0000	.0000	.0000
%RSD	1.319	33.44	60.25	39.30	.4130	53.28
#1	.0014	.0004	.0002	.0000	.0009	.0000
#2	.0014	.0003	.0001	.0000	.0009	.0000

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-.0000	.0001	.0001	-.0001	.0001
Stddev	.0005	.0000	.0000	.0001	.0000	.0001
%RSD	309.7	5.936	19.53	80.97	27.89	120.3
#1	.0006	-.0000	.0001	.0002	-.0002	.0001
#2	-.0002	-.0000	.0002	.0001	-.0001	.0000

Sample Name: CAL0 Acquired: 1/26/2017 7:04:32 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0002	.0014	-.0000	-.0001	-.0004
Stddev	.0000	.0001	.0001	.0001	.0000	.0000
%RSD	35.78	31.87	7.965	174.0	3.445	10.45
#1	.0001	-.0002	.0014	.0000	-.0001	-.0004
#2	.0001	-.0003	.0015	-.0001	-.0002	-.0004

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0002	-.0008	-.0002	-.0022	-.0003
Stddev	.0000	.0001	.0000	.0005	.0001	.0000
%RSD	16.66	26.24	2.652	227.2	3.014	12.69
#1	-.0001	.0003	-.0008	-.0006	-.0022	-.0003
#2	-.0002	.0002	-.0008	.0001	-.0023	-.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7325.9	93137.	28448.
Stddev	7.4	229.	108.
%RSD	.10162	.24623	.37845
#1	7331.1	92975.	28372.
#2	7320.6	93299.	28524.

Sample Name: CAL1 Acquired: 1/26/2017 7:09:06 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Be3130	Cd2288	Mn2576	Pb2203	Se1960	Zn2062
Line	313.042 {108}	228.802 {447}	257.610 {131}	220.353 {453}	196.090 {472}	206.200 {463}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.190	3.531	1.237	1.291	.1575	1.882
Stddev	.014	.012	.001	.003	.0002	.011
%RSD	.6193	.3388	.1098	.2259	.1532	.5600
#1	2.180	3.539	1.238	1.293	.1576	1.890
#2	2.200	3.522	1.236	1.289	.1573	1.875

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7260.1	91856.	28142.
Stddev	13.9	124.	187.
%RSD	.19183	.13514	.66443
#1	7250.3	91768.	28275.
#2	7270.0	91944.	28010.

Sample Name: CAL2 Acquired: 1/26/2017 7:11:17 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ba4554	Co2286	Cu3247	Fe2714	V_2924	Sr4077
Line	455.403 { 74}	228.616 {447}	324.754 {104}	271.441 {124}	292.464 {115}	407.771 { 83}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.181	.6980	.0812	.4742	.0622	4.053
Stddev	.005	.0025	.0003	.0006	.0001	.007
%RSD	.2499	.3556	.3231	.1232	.1185	.1716
#1	2.177	.6998	.0810	.4738	.0623	4.048
#2	2.185	.6962	.0814	.4746	.0622	4.057

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7249.7	92237.	28396.
Stddev	4.9	20.	94.
%RSD	.06799	.02139	.32955
#1	7253.2	92223.	28330.
#2	7246.2	92251.	28462.

Sample Name: CAL3 Acquired: 1/26/2017 7:13:29 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	As1890	Mo2020	Si2881
Line	189.042 {478}	202.030 {467}	288.158 {117}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.4959	.9322	.2583
Stddev	.0016	.0109	.0030
%RSD	.3157	1.170	1.178
#1	.4970	.9399	.2561
#2	.4948	.9245	.2604

Int. Std.	Y_2243	Y_3600
Line	224.306 {450}	360.073 { 94}
Units	Cts/S	Cts/S
Avg	7434.6	95073.
Stddev	13.4	571.
%RSD	.17993	.60038
#1	7425.1	95476.
#2	7444.0	94669.

Sample Name: CAL4 Acquired: 1/26/2017 7:15:40 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Al3082	Ca3158	Cr2677	K_7664	Ni2316	Na5895
Line	308.215 {109}	315.887 {107}	267.716 {126}	766.490 { 44}	231.604 {446}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1966	2.527	.0546	.3347	.3691	.6970
Stddev	.0001	.001	.0004	.0005	.0011	.0017
%RSD	.0450	.0392	.8113	.1553	.3009	.2478
#1	.1967	2.527	.0550	.3343	.3699	.6982
#2	.1966	2.526	.0543	.3350	.3683	.6958

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7194.2	90258.	28175.
Stddev	9.2	268.	7.
%RSD	.12828	.29637	.02635
#1	7187.7	90069.	28180.
#2	7200.8	90447.	28169.

Sample Name: CAL5 Acquired: 1/26/2017 7:17:52 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	B_2496	Mg2790	Sb2068	Tl1908
Line	249.678 {135}	279.079 {121}	206.833 {463}	190.856 {477}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0726	.1999	.3165	.3720
Stddev	.0000	.0001	.0014	.0001
%RSD	.0630	.0498	.4500	.0274
#1	.0726	.1998	.3175	.3720
#2	.0726	.1999	.3154	.3721

Int. Std.	Y_2243	Y_3600
Line	224.306 {450}	360.073 { 94}
Units	Cts/S	Cts/S
Avg	7259.4	91467.
Stddev	1.2	102.
%RSD	.01697	.11123
#1	7258.5	91539.
#2	7260.2	91396.

Sample Name: CAL6 Acquired: 1/26/2017 7:20:02 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Sn1899	Ti3372	P_1774	Li6707
Line	189.989 {477}	337.280 {100}	177.495 {490}	670.784 { 50}
IS Ref	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.375	3.267	.5310	5.012
Stddev	.013	.021	.0047	.003
%RSD	.9317	.6283	.8804	.0525
#1	1.384	3.252	.5343	5.014
#2	1.365	3.281	.5277	5.011

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7152.4	89769.	27417.
Stddev	20.5	383.	137.
%RSD	.28664	.42681	.49816
#1	7137.9	90040.	27514.
#2	7166.9	89498.	27320.

Sample Name: CAL7 Acquired: 1/26/2017 7:22:20 Type: Cal
Method: 50ICP3 method build(v104) Mode: IR Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280
Line	328.068 {103}
IS Ref	(Y_3710)
Units	Cts/S
Avg	.1388
Stddev	.0001
%RSD	.0903
#1	.1388
#2	.1387
Int. Std.	Y_3710
Line	371.030 { 91}
Units	Cts/S
Avg	26990.
Stddev	74.
%RSD	.27598
#1	26938.
#2	27043.

Sample Name: ICV Acquired: 1/26/2017 7:24:35 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	488.0	9734.	1041.	1019.	983.1	980.4
Stddev	3.9	10.	6.	.	3.3	2.4
%RSD	.7972	.1038	.5316	.0192	.3309	.2489
#1	490.8	9742.	1037.	1019.	980.8	982.2
#2	485.3	9727.	1045.	1019.	985.4	978.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9887.	984.5	981.7	978.5	962.2	10030.
Stddev	31.	7.1	7.0	5.9	4.1	37.
%RSD	.3120	.7219	.7124	.6061	.4272	.3667
#1	9865.	979.5	976.7	982.7	959.3	10000.
#2	9909.	989.5	986.6	974.3	965.1	10050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 1/26/2017 7:24:35 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9836.	9749.	958.8	1019.	1019.	979.3
Stddev	16.	32.	2.2	3.	8.	2.7
%RSD	.1637	.3302	.2265	.3348	.8300	.2763
#1	9847.	9726.	957.3	1016.	1013.	977.4
#2	9825.	9772.	960.4	1021.	1025.	981.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1023.	994.6	F 4406.	1020.	1034.	962.0
Stddev	7.	4.0	16.	11.	2.	11.7
%RSD	.7139	.4025	.3539	1.039	.1815	1.220
#1	1018.	991.8	4395.	1013.	1033.	953.7
#2	1028.	997.4	4418.	1028.	1036.	970.3
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value			5000.			
Range			-10.00%			

Sample Name: ICV Acquired: 1/26/2017 7:24:35 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1020.	986.2	9841.	988.8	991.3	973.4
Stddev	.	7.3	16.	2.3	9.8	.2
%RSD	.0428	.7441	.1659	.2295	.9839	.0232
#1	1020.	981.0	9853.	987.2	984.4	973.6
#2	1019.	991.4	9830.	990.4	998.2	973.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7217.9	91287.	28149.
Stddev	48.9	207.	725.
%RSD	.67728	.22698	2.5768
#1	7252.4	91433.	27636.
#2	7183.3	91140.	28662.

Sample Name: ICB Acquired: 1/26/2017 7:27:11 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0024	-3.908	.6047	1.462	.0925	.0241
Stddev	1.540	.667	.4800	.641	.0585	.0155
%RSD	64190.	17.06	79.37	43.88	63.27	64.47
#1	1.091	-3.437	.2653	1.008	.1339	.0131
#2	-1.087	-4.380	.9441	1.915	.0511	.0351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.580	-.1488	.1637	.5384	.8386	-2.649
Stddev	.273	.0775	.0334	2.084	.9146	10.53
%RSD	10.59	52.06	20.38	387.1	109.1	397.4
#1	-2.386	-.0940	.1873	-.9354	.1918	4.795
#2	-2.773	-.2036	.1401	2.012	1.485	-10.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 1/26/2017 7:27:11 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.14	.7499	-.0874	2.768	.3019	-.4513
Stddev	2.09	3.629	.0073	.619	.4680	.0872
%RSD	18.72	484.0	8.395	22.38	155.0	19.33
#1	12.61	3.316	-.0926	2.330	.6328	-.3896
#2	9.662	-1.816	-.0822	3.206	-.0290	-.5130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.493	.3405	1.995	1.556	1.206	.7076
Stddev	1.251	1.284	.398	.008	.083	.2555
%RSD	35.82	377.2	19.93	.4981	6.898	36.11
#1	4.378	-.5677	1.714	1.562	1.265	.8882
#2	2.608	1.249	2.276	1.551	1.147	.5269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 1/26/2017 7:27:11 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3655	-.4232	-2.834	-.0157	-1.581	.7512
Stddev	.4209	.0659	8.111	.0035	.759	.8116
%RSD	115.1	15.57	286.2	22.02	48.02	108.0
#1	.6631	-.4698	2.902	-.0132	-2.118	.1773
#2	.0679	-.3766	-8.569	-.0181	-1.044	1.325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7314.6	92072.	27718.
Stddev	7.4	148.	42.
%RSD	.10093	.16075	.15315
#1	7319.8	91967.	27748.
#2	7309.4	92176.	27688.

Sample Name: CRDL Acquired: 1/26/2017 7:29:27 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.57	194.5	8.352	102.1	10.52	4.120
Stddev	2.60	1.2	.544	.7	.52	.059
%RSD	24.55	.6056	6.510	.7092	4.895	1.443
#1	12.40	193.6	7.968	102.6	10.16	4.078
#2	8.732	195.3	8.737	101.6	10.89	4.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1025.	1.766	10.66	11.74	11.93	100.9
Stddev	6.	.121	.21	3.46	.18	11.7
%RSD	.5677	6.841	1.982	29.50	1.523	11.63
#1	1021.	1.680	10.81	9.290	12.06	109.2
#2	1029.	1.851	10.51	14.19	11.80	92.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CRDL Acquired: 1/26/2017 7:29:27 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	990.3	1008.	10.74	10.86	10.64	10.00
Stddev	30.3	6.	.01	.09	.33	.28
%RSD	3.055	.6098	.1087	.8088	3.146	2.752
#1	968.9	1004.	10.75	10.92	10.41	10.20
#2	1012.	1012.	10.74	10.80	10.88	9.806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 9.001	8.993	186.8	12.25	11.40	11.11
Stddev	.817	.743	2.9	.20	.03	.71
%RSD	9.080	8.266	1.564	1.661	.2538	6.347
#1	8.423	9.519	184.7	12.40	11.38	10.61
#2	9.579	8.467	188.8	12.11	11.42	11.61
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.000					
Low Limit	3.000					

Sample Name: CRDL Acquired: 1/26/2017 7:29:27 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.83	22.25	1005.	10.41	1027.	20.65
Stddev	.37	.06	33.	.35	1.	1.37
%RSD	3.445	.2804	3.259	3.356	.0770	6.644
#1	11.10	22.30	981.7	10.16	1027.	21.62
#2	10.57	22.21	1028.	10.65	1026.	19.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7291.9	93304.	28619.
Stddev	6.6	21.	621.
%RSD	.09091	.02296	2.1705
#1	7287.2	93319.	29059.
#2	7296.6	93289.	28180.

Sample Name: ICSA Acquired: 1/26/2017 7:40:04 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.167	500000.	6.624	65.27	1.483	-.0439
Stddev	2.600	3385.	1.575	2.08	.039	.0066
%RSD	222.9	.6769	23.78	3.182	2.623	15.06
#1	.6717	502400.	7.737	63.80	1.511	-.0486
#2	-3.005	497600.	5.510	66.74	1.456	-.0392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	457800.	.9042	1.105	3.845	1.256	190300.
Stddev	810.	.2023	.175	1.726	.220	829.
%RSD	.1769	22.37	15.82	44.87	17.48	.4356
#1	457300.	.7612	1.229	2.625	1.411	189700.
#2	458400.	1.047	.9815	5.065	1.100	190900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 1/26/2017 7:40:04 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-103.2	502900.	.5677	-1.275	-4.146	3.922
Stddev	46.9	10.	.1353	.035	.053	.449
%RSD	45.48	.0019	23.83	2.718	1.272	11.44
#1	-70.03	502900.	.4721	-1.250	-4.183	4.240
#2	-136.4	502900.	.6634	-1.299	-4.108	3.605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4665	-18.47	6.499	-.5970	13.08	-3.722
Stddev	1.199	5.87	5.842	.3443	.07	.258
%RSD	256.9	31.79	89.89	57.67	.5660	6.929
#1	-1.314	-22.62	2.368	-.3535	13.03	-3.540
#2	.3810	-14.31	10.63	-.8404	13.13	-3.904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 1/26/2017 7:40:04 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.05	-3.137	-73.84	6.065	14.09	5.996
Stddev	.95	.291	3.70	.114	1.66	1.259
%RSD	4.999	9.281	5.010	1.881	11.76	21.00
#1	19.72	-3.343	-71.23	6.145	15.26	6.886
#2	18.38	-2.931	-76.46	5.984	12.92	5.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6234.7	77767.	26560.
Stddev	6.2	82.	337.
%RSD	.09997	.10491	1.2675
#1	6230.3	77709.	26321.
#2	6239.1	77824.	26798.

Sample Name: ICSAB Acquired: 1/26/2017 7:42:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**245.3**	**500300.**	**524.7**	**590.5**	**491.9**	**475.3**
Stddev	2.8	1355.	7.9	.7	5.8	5.5
%RSD	1.129	.2709	1.508	.1266	1.170	1.155
#1	247.3	499300.	530.3	590.0	496.0	479.2
#2	243.3	501200.	519.1	591.1	487.8	471.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**458100.**	**502.0**	**434.2**	**464.0**	**488.0**	**190500.**
Stddev	373.	4.0	3.5	4.1	3.1	417.
%RSD	.0814	.7890	.8153	.8733	.6263	.2186
#1	458300.	504.8	436.7	466.9	490.2	190200.
#2	457800.	499.2	431.7	461.2	485.9	190800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB Acquired: 1/26/2017 7:42:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-97.33	503200.	456.3	477.6	435.7	429.0
Stddev	22.55	447.	1.8	8.4	3.4	1.8
%RSD	23.17	.0888	.3922	1.751	.7710	.4179
#1	-113.3	502900.	455.0	483.5	438.0	430.3
#2	-81.38	503500.	457.5	471.7	433.3	427.7
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	506.6	465.9	2180.	457.8	530.0	F 387.0
Stddev	9.3	1.3	9.	5.2	2.7	5.5
%RSD	1.843	.2847	.4246	1.142	.5019	1.426
#1	513.2	466.8	2174.	461.5	528.2	390.9
#2	500.0	465.0	2187.	454.1	531.9	383.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						600.0
Low Limit						400.0

Sample Name: ICSAB Acquired: 1/26/2017 7:42:34 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	518.7	443.1	-62.40	496.3	499.8	533.5
Stddev	2.0	2.7	1.95	5.1	2.9	8.0
%RSD	.3795	.5985	3.129	1.033	.5715	1.494
#1	517.3	445.0	-61.02	499.9	501.8	539.1
#2	520.1	441.2	-63.78	492.7	497.7	527.9
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6269.3	77604.	26360.
Stddev	16.8	50.	324.
%RSD	.26757	.06382	1.2294
#1	6257.4	77569.	26131.
#2	6281.2	77639.	26589.

Sample Name: 1712435_29070 Acquired: 1/26/2017 7:56:54 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	475.6	9779.	990.7	1004.	964.2	981.0
Stddev	1.0	1.	4.2	2.	.9	1.8
%RSD	.2120	.0115	.4262	.1728	.0948	.1784
#1	474.8	9779.	987.8	1005.	963.5	979.7
#2	476.3	9780.	993.7	1003.	964.8	982.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9718.	972.6	974.8	951.4	976.2	9725.
Stddev	16.	1.2	.1	.3	.9	3.
%RSD	.1605	.1182	.0103	.0326	.0922	.0303
#1	9707.	973.4	974.7	951.7	976.9	9727.
#2	9729.	971.7	974.9	951.2	975.6	9723.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712435_29070 Acquired: 1/26/2017 7:56:54 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9460.**	**9504.**	**939.3**	**1037.**	**980.1**	**937.4**
Stddev	8.	14.	1.6	3.	.3	2.3
%RSD	.0887	.1426	.1745	.3308	.0284	.2495
#1	9466.	9494.	938.1	1040.	979.9	939.1
#2	9454.	9514.	940.5	1035.	980.3	935.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1018.**	**998.4**	**4316.**	**1011.**	**1015.**	**941.2**
Stddev	1.	.1	5.	3.	3.	1.7
%RSD	.1276	.0063	.1250	.2807	.2725	.1834
#1	1019.	998.4	4312.	1013.	1013.	942.4
#2	1017.	998.3	4320.	1009.	1017.	939.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712435_29070 Acquired: 1/26/2017 7:56:54 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	992.6	997.0	9704.	976.6	1003.	978.8
Stddev	4.0	.9	1.	.3	1.	1.0
%RSD	.4026	.0855	.0146	.0258	.0781	.1012
#1	989.8	997.6	9705.	976.5	1002.	978.1
#2	995.5	996.4	9703.	976.8	1003.	979.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6968.4	88786.	27597.
Stddev	6.8	193.	25.
%RSD	.09759	.21712	.08942
#1	6973.2	88922.	27579.
#2	6963.6	88650.	27614.

Sample Name: 1712434_29070 Acquired: 1/26/2017 7:58:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.200	8.072	-.5330	.5238	.3961	.3172
Stddev	3.677	1.502	1.153	.0489	.0275	.0470
%RSD	306.4	18.61	216.3	9.337	6.944	14.81
#1	-3.800	7.009	.2824	.5584	.4156	.3504
#2	1.400	9.134	-1.348	.4892	.3767	.2840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.28	-.1698	.2689	.8727	-.2327	8.384
Stddev	2.01	.0365	.2457	.9357	.7482	4.153
%RSD	6.233	21.51	91.37	107.2	321.5	49.54
#1	33.70	-.1440	.0952	1.534	.2964	5.447
#2	30.86	-.1956	.4426	.2111	-.7618	11.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712434_29070 Acquired: 1/26/2017 7:58:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.987	10.80	.5114	3.982	1.831	.6571
Stddev	42.18	1.84	.0763	.881	.084	.3196
%RSD	1412.	17.02	14.92	22.11	4.581	48.65
#1	-26.84	12.10	.5653	3.359	1.890	.8831
#2	32.81	9.498	.4574	4.605	1.772	.4310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.025	-1.290	11.63	2.149	1.191	1.021
Stddev	1.398	1.169	3.74	.046	.088	.765
%RSD	34.73	90.58	32.16	2.138	7.402	74.96
#1	3.037	-2.117	8.983	2.182	1.254	1.562
#2	5.013	-.4639	14.27	2.117	1.129	.4798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712434_29070 Acquired: 1/26/2017 7:58:55 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1391	2.854	22.37	.1333	.1969	.1982
Stddev	.9372	.035	9.20	.0055	.4089	1.301
%RSD	673.9	1.219	41.15	4.111	207.7	656.7
#1	-.5236	2.878	15.86	.1372	.4860	1.118
#2	.8018	2.829	28.87	.1294	-.0923	-.7221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7186.7	90866.	27750.
Stddev	.4	312.	255.
%RSD	.00614	.34359	.91905
#1	7186.4	91086.	27931.
#2	7187.0	90645.	27570.

Sample Name: 50163373001_29070 Acquired: 1/26/2017 8:01:10 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8971	228100.	51.65	202.1	1210.	13.34
Stddev	.2163	2576.	1.83	1.5	1.	.02
%RSD	24.11	1.129	3.550	.7441	.1121	.1438
#1	-1.050	229900.	50.35	201.0	1209.	13.35
#2	-.7441	226300.	52.94	203.2	1211.	13.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93460.	1.320	115.2	299.2	206.4	273300.
Stddev	46.	.172	1.9	1.1	2.2	59.
%RSD	.0490	13.03	1.660	.3776	1.072	.0214
#1	93490.	1.441	116.5	298.4	208.0	273400.
#2	93420.	1.198	113.8	300.0	204.8	273300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163373001_29070 Acquired: 1/26/2017 8:01:10 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22090.**	**63280.**	**5808.**	**14.48**	**290.9**	**87.21**
Stddev	43.	59.	5.	.20	2.4	2.21
%RSD	.1946	.0936	.0852	1.396	.8388	2.540
#1	22060.	63330.	5805.	14.62	292.7	88.78
#2	22120.	63240.	5812.	14.33	289.2	85.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.438**	F **-14.63**	**61150.**	**11.50**	**333.8**	**-1.032**
Stddev	2.125	.88	438.	.39	2.2	1.776
%RSD	33.01	6.000	.7165	3.374	.6646	172.1
#1	7.941	-15.25	61460.	11.77	335.4	.2241
#2	4.936	-14.01	60840.	11.23	332.3	-2.288
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		50000.				
Low Limit		-10.00				

Sample Name: 50163373001_29070 Acquired: 1/26/2017 8:01:10 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	339.7	584.7	80800.	241.7	1580.	196.8
Stddev	.0	7.1	160.	.0	24.	.1
%RSD	.0060	1.211	.1979	.0178	1.506	.0402
#1	339.7	589.7	80680.	241.7	1597.	196.7
#2	339.8	579.7	80910.	241.7	1563.	196.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7326.4	90504.	29563.
Stddev	7.3	260.	19.
%RSD	.09964	.28759	.06382
#1	7321.3	90320.	29550.
#2	7331.6	90688.	29577.

Sample Name: 50163373002_29070 Acquired: 1/26/2017 8:03:35 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3896	129400.	43.36	108.0	572.3	5.696
Stddev	.2719	395.	.38	.1	.9	.706
%RSD	69.77	.3049	.8790	.0739	.1486	12.39
#1	-.1974	129700.	43.09	107.9	572.9	5.197
#2	-.5819	129100.	43.63	108.0	571.7	6.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	113100.	.5166	122.7	188.6	476.2	156900.
Stddev	356.	.0932	.5	2.0	.8	31.
%RSD	.3150	18.04	.4416	1.052	.1722	.0197
#1	113300.	.4507	123.1	187.2	476.8	156900.
#2	112800.	.5825	122.4	190.0	475.6	156900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163373002_29070 Acquired: 1/26/2017 8:03:35 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10130.**	**37300.**	**1941.**	**36.35**	**191.6**	**68.42**
Stddev	21.	34.	.	.47	.9	.84
%RSD	.2106	.0924	.0036	1.279	.4780	1.222
#1	10150.	37330.	1941.	36.68	192.3	69.01
#2	10110.	37280.	1941.	36.02	191.0	67.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.581**	**-2.511**	**65720.**	**19.47**	**399.3**	**-.1700**
Stddev	.456	2.254	335.	.71	1.2	.6438
%RSD	9.947	89.76	.5094	3.659	.3018	378.7
#1	4.259	-4.104	65960.	18.97	400.2	-.6252
#2	4.903	-.9173	65480.	19.98	398.5	.2853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163373002_29070 Acquired: 1/26/2017 8:03:35 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	201.0	374.4	39950.	339.6	968.2	105.6
Stddev	1.0	.8	84.	1.2	7.1	1.7
%RSD	.5086	.2170	.2101	.3679	.7352	1.572
#1	200.3	375.0	40010.	340.5	973.3	104.4
#2	201.7	373.8	39890.	338.8	963.2	106.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7032.1	88243.	28499.
Stddev	8.3	135.	74.
%RSD	.11810	.15327	.26061
#1	7026.3	88148.	28552.
#2	7038.0	88339.	28447.

Sample Name: 1712436_29070 Acquired: 1/26/2017 8:05:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	463.5	162800.	976.5	1042.	1571.	958.7
Stddev	1.5	1557.	.3	5.	2.	2.0
%RSD	.3286	.9566	.0346	.5173	.0956	.2095
#1	462.4	163900.	976.7	1046.	1570.	957.2
#2	464.6	161700.	976.3	1038.	1572.	960.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124600.	929.8	993.9	1114.	1430.	164000.
Stddev	432.	3.0	4.7	9.	3.	1109.
%RSD	.3472	.3271	.4698	.8508	.1788	.6759
#1	124900.	931.9	997.2	1121.	1431.	164800.
#2	124300.	927.6	990.6	1107.	1428.	163300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712436_29070 Acquired: 1/26/2017 8:05:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22880.	47390.	2846.	969.6	1064.	890.4
Stddev	35.	294.	20.	9.1	5.	3.9
%RSD	.1514	.6208	.7197	.9418	.4818	.4339
#1	22860.	47590.	2860.	976.1	1068.	893.2
#2	22910.	47180.	2831.	963.2	1060.	887.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	372.0	922.7	F 120200.	837.4	1186.	781.4
Stddev	3.1	8.3	1297.	4.0	12.	3.0
%RSD	.8250	.9048	1.079	.4754	.9781	.3830
#1	374.2	928.7	121100.	840.2	1194.	783.6
#2	369.8	916.8	119300.	834.5	1177.	779.3
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			100000.			
Low Limit			-200.0			

Sample Name: 1712436_29070 Acquired: 1/26/2017 8:05:50 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1179.	1281.	51170.	1330.	1907.	1115.
Stddev	7.	1.	11.	1.	7.	1.
%RSD	.5870	.0613	.0216	.0591	.3438	.1113
#1	1184.	1281.	51160.	1329.	1911.	1115.
#2	1174.	1280.	51180.	1330.	1902.	1116.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6955.4	86493.	27663.
Stddev	1.6	456.	20.
%RSD	.02301	.52750	.07139
#1	6956.6	86170.	27649.
#2	6954.3	86815.	27677.

Sample Name: 1712437_29070 Acquired: 1/26/2017 8:08:03 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**450.4**	**151600.**	**967.6**	**1021.**	**1518.**	**933.1**
Stddev	1.2	578.	2.4	10.	.	1.6
%RSD	.2715	.3810	.2463	.9512	.0139	.1717
#1	451.2	152000.	969.3	1027.	1518.	932.0
#2	449.5	151200.	965.9	1014.	1518.	934.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**121800.**	**917.9**	**977.1**	**1085.**	**1379.**	**151000.**
Stddev	275.	1.5	5.4	6.	1.	572.
%RSD	.2260	.1640	.5495	.5375	.0854	.3788
#1	122000.	918.9	980.9	1089.	1378.	151400.
#2	121600.	916.8	973.3	1081.	1379.	150600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1712437_29070 Acquired: 1/26/2017 8:08:03 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21920.**	**45580.**	**2741.**	**959.1**	**1045.**	**876.4**
Stddev	42.	167.	9.	9.3	4.	3.2
%RSD	.1908	.3673	.3200	.9684	.3895	.3649
#1	21950.	45690.	2747.	965.6	1048.	878.6
#2	21890.	45460.	2735.	952.5	1043.	874.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**373.1**	**918.8**	F **114700.**	**830.5**	**1177.**	**776.8**
Stddev	3.2	6.2	1090.	5.1	9.	5.4
%RSD	.8702	.6694	.9507	.6120	.7272	.6980
#1	375.4	914.5	115400.	834.1	1183.	780.6
#2	370.8	923.2	113900.	826.9	1170.	772.9
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			100000.			
Low Limit			-200.0			

Sample Name: 1712437_29070 Acquired: 1/26/2017 8:08:03 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1144.	1244.	49310.	1289.	1836.	1079.
Stddev	10.	10.	60.	2.	8.	1.
%RSD	.8407	.7905	.1219	.1212	.4244	.0617
#1	1151.	1251.	49270.	1288.	1841.	1078.
#2	1137.	1237.	49360.	1290.	1830.	1079.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7054.3	87552.	28137.
Stddev	34.4	84.	25.
%RSD	.48752	.09615	.08710
#1	7030.0	87493.	28155.
#2	7078.6	87612.	28120.

Sample Name: 1714639_29070 Acquired: 1/26/2017 8:10:17 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	458.5	135200.	994.9	1091.	1497.	949.8
Stddev	5.2	31.	8.2	1.	.	.2
%RSD	1.140	.0230	.8259	.1370	.0077	.0239
#1	462.2	135200.	1001.	1092.	1497.	950.0
#2	454.8	135300.	989.1	1089.	1497.	949.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119800.	934.0	994.7	1094.	1394.	161500.
Stddev	140.	2.7	3.5	.	1.	88.
%RSD	.1169	.2912	.3538	.0146	.0427	.0544
#1	119700.	935.9	997.1	1094.	1394.	161600.
#2	119900.	932.1	992.2	1094.	1395.	161500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1714639_29070 Acquired: 1/26/2017 8:10:17 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19450.**	**45150.**	**2782.**	**1006.**	**1060.**	**901.3**
Stddev	20.	26.	2.	6.	3.	4.0
%RSD	.1036	.0571	.0765	.6126	.2827	.4412
#1	19430.	45170.	2784.	1010.	1062.	904.1
#2	19460.	45130.	2781.	1001.	1058.	898.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**968.0**	**950.2**	**70120.**	**935.9**	**1372.**	**808.7**
Stddev	1.2	1.4	105.	3.6	3.	4.1
%RSD	.1215	.1491	.1492	.3849	.1990	.5008
#1	968.8	951.2	70190.	938.4	1370.	811.6
#2	967.1	949.2	70050.	933.3	1374.	805.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1714639_29070 Acquired: 1/26/2017 8:10:17 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1151.	1262.	48620.	1281.	1896.	1081.
Stddev	2.	3.	7.	1.	7.	.
%RSD	.1325	.2520	.0149	.0874	.3660	.0353
#1	1152.	1265.	48610.	1280.	1901.	1081.
#2	1150.	1260.	48620.	1281.	1892.	1080.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7098.3	88275.	28555.
Stddev	12.8	156.	179.
%RSD	.18090	.17699	.62642
#1	7089.2	88165.	28428.
#2	7107.4	88386.	28681.

Sample Name: 1714640_29070 Acquired: 1/26/2017 8:12:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5912	24840.	9.109	24.01	114.1	1.176
Stddev	1.241	6.	2.088	.84	.0	.004
%RSD	209.9	.0249	22.92	3.518	.0377	.3693
#1	-1.469	24830.	7.632	23.41	114.1	1.173
#2	.2862	24840.	10.59	24.61	114.0	1.179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23070.	.2830	25.88	38.76	94.81	31710.
Stddev	14.	.2910	.23	1.51	.68	34.
%RSD	.0623	102.8	.8886	3.903	.7121	.1064
#1	23060.	.4887	26.04	37.69	94.34	31730.
#2	23080.	.0772	25.72	39.83	95.29	31680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1714640_29070 Acquired: 1/26/2017 8:12:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1977.	7625.	391.3	11.20	39.15	14.15
Stddev	22.	26.	.2	.21	.94	1.56
%RSD	1.099	.3387	.0445	1.913	2.395	11.01
#1	1992.	7607.	391.2	11.05	39.81	15.25
#2	1962.	7644.	391.5	11.36	38.49	13.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.934	-.2851	13650.	5.415	81.21	-.6048
Stddev	.763	.8800	11.	.482	.03	.4335
%RSD	19.40	308.6	.0807	8.911	.0397	71.67
#1	4.473	-.9074	13660.	5.756	81.23	-.2983
#2	3.394	.3371	13640.	5.074	81.18	-.9114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 1714640_29070 Acquired: 1/26/2017 8:12:22 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.82	75.98	7718.	67.76	183.6	21.13
Stddev	.53	.31	10.	.02	.8	.30
%RSD	1.308	.4129	.1273	.0327	.4472	1.418
#1	40.44	76.20	7712.	67.74	184.2	20.92
#2	41.20	75.75	7725.	67.78	183.1	21.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7250.6	91415.	28151.
Stddev	16.0	54.	53.
%RSD	.22115	.05856	.18857
#1	7261.9	91453.	28114.
#2	7239.2	91377.	28189.

Sample Name: 50163373003_29070 Acquired: 1/26/2017 8:14:33 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.396	F 300100.	70.21	193.6	1603.	16.73
Stddev	3.220	1204.	3.72	.3	2.	.09
%RSD	230.7	.4012	5.296	.1293	.1396	.5661
#1	.8815	299300.	72.84	193.8	1604.	16.79
#2	-3.673	301000.	67.58	193.5	1601.	16.66
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		300000.				
Low Limit		-200.0				

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101400.	2.444	183.3	368.5	324.3	F 423400.
Stddev	98.	.846	2.5	.5	2.4	299.
%RSD	.0965	34.63	1.343	.1239	.7502	.0706
#1	101500.	3.042	185.1	368.2	322.6	423700.
#2	101300.	1.845	181.6	368.9	326.0	423200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						400000.
Low Limit						-50.00

Sample Name: 50163373003_29070 Acquired: 1/26/2017 8:14:33 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22170.**	**82420.**	**7885.**	**10.62**	**409.2**	**126.3**
Stddev	21.	41.	2.	.67	2.9	1.6
%RSD	.0944	.0496	.0247	6.337	.6968	1.269
#1	22190.	82450.	7887.	11.10	411.2	127.4
#2	22160.	82390.	7884.	10.15	407.1	125.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.86**	F **-16.42**	**59740.**	**14.81**	**334.1**	**-3.510**
Stddev	1.58	3.48	173.	.14	3.6	4.150
%RSD	14.52	21.22	.2895	.9570	1.064	118.2
#1	11.97	-13.95	59860.	14.71	331.6	-.5758
#2	9.743	-18.88	59620.	14.91	336.7	-6.444
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		50000.				
Low Limit		-10.00				

Sample Name: 50163373003_29070 Acquired: 1/26/2017 8:14:33 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	432.7	790.1	39700.	283.4	1896.	268.8
Stddev	.4	7.4	1.	.1	22.	1.1
%RSD	.1019	.9370	.0026	.0313	1.148	.4234
#1	432.4	795.4	39700.	283.4	1912.	269.6
#2	433.0	784.9	39700.	283.5	1881.	268.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7741.0	96177.	31649.
Stddev	6.3	128.	65.
%RSD	.08108	.13288	.20631
#1	7736.6	96087.	31695.
#2	7745.5	96268.	31603.

Sample Name: 50163373004_29070 Acquired: 1/26/2017 8:16:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1268	118300.	27.94	107.9	601.0	5.793
Stddev	1.461	1061.	1.46	.6	.1	.021
%RSD	1153.	.8969	5.234	.5906	.0238	.3648
#1	-.9063	119100.	26.91	107.4	600.9	5.808
#2	1.160	117600.	28.97	108.3	601.1	5.778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82440.	.7251	77.98	146.4	207.9	146700.
Stddev	559.	.0594	.51	1.7	.6	1225.
%RSD	.6782	8.198	.6551	1.181	.2885	.8350
#1	82840.	.6831	78.34	147.6	207.5	147600.
#2	82050.	.7671	77.62	145.2	208.4	145900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163373004_29070 Acquired: 1/26/2017 8:16:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10440.**	**49150.**	**2640.**	**6.351**	**160.2**	**44.58**
Stddev	20.	368.	20.	.160	.1	.48
%RSD	.1891	.7494	.7703	2.515	.0760	1.068
#1	10420.	49410.	2655.	6.464	160.3	44.91
#2	10450.	48890.	2626.	6.238	160.1	44.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.231**	**-7.512**	**58000.**	**10.07**	**312.1**	**.7040**
Stddev	.081	1.700	625.	.66	2.5	.6892
%RSD	3.628	22.63	1.078	6.565	.8123	97.90
#1	2.288	-6.310	58450.	10.54	313.9	.2167
#2	2.173	-8.713	57560.	9.606	310.3	1.191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 50163373004_29070 Acquired: 1/26/2017 8:16:57 Type: Unk
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	181.2	305.5	45430.	197.5	721.1	102.2
Stddev	.7	1.4	62.	.2	2.9	.7
%RSD	.4102	.4687	.1372	.0827	.4076	.6725
#1	180.6	306.5	45380.	197.4	723.2	102.7
#2	181.7	304.5	45470.	197.6	719.0	101.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7224.6	89598.	28752.
Stddev	1.3	565.	34.
%RSD	.01841	.63085	.11729
#1	7225.6	89198.	28729.
#2	7223.7	89997.	28776.

Sample Name: CCV Acquired: 1/26/2017 8:19:12 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	490.6	9732.	1025.	1020.	987.0	989.9
Stddev	2.0	11.	2.	3.	.1	1.2
%RSD	.4014	.1125	.1763	.2853	.0095	.1239
#1	489.2	9740.	1026.	1018.	987.0	989.0
#2	492.0	9724.	1024.	1022.	987.1	990.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9982.	982.5	982.8	981.2	970.2	10100.
Stddev	15.	3.0	3.3	4.6	2.7	47.
%RSD	.1506	.3010	.3401	.4651	.2814	.4635
#1	9971.	984.6	985.1	978.0	968.3	10060.
#2	9992.	980.4	980.4	984.5	972.1	10130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/26/2017 8:19:12 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9870.	9857.	966.0	1014.	1019.	971.9
Stddev	21.	23.	1.0	7.	3.	1.6
%RSD	.2093	.2302	.1034	.7027	.2716	.1688
#1	9885.	9841.	965.3	1019.	1021.	973.0
#2	9856.	9873.	966.7	1009.	1017.	970.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1015.	980.0	4853.	1017.	1036.	953.2
Stddev	1.	3.7	42.	2.	1.	4.1
%RSD	.1424	.3818	.8710	.1481	.0699	.4250
#1	1016.	982.7	4824.	1018.	1036.	950.3
#2	1014.	977.4	4883.	1016.	1037.	956.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 1/26/2017 8:19:12 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1025.	997.1	9984.	991.3	987.7	983.6
Stddev	5.	4.6	7.	.3	1.8	.5
%RSD	.4897	.4586	.0668	.0266	.1804	.0545
#1	1022.	1000.	9979.	991.1	989.0	984.0
#2	1029.	993.9	9988.	991.5	986.5	983.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7174.4	90130.	27521.
Stddev	22.4	236.	87.
%RSD	.31204	.26150	.31729
#1	7158.5	90296.	27460.
#2	7190.2	89963.	27583.

Sample Name: CCB Acquired: 1/26/2017 8:21:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	249.678 {135}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.056	7.831	1.191	2.037	.5114	.2849
Stddev	.072	1.326	.315	.294	.1188	.0252
%RSD	3.506	16.93	26.41	14.45	23.23	8.847
#1	-2.107	6.893	.9684	1.829	.4274	.3028
#2	-2.005	8.768	1.413	2.245	.5954	.2671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3158	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Line	315.887 {107}	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.263	.1848	.4309	-.4653	-.2282	18.17
Stddev	.179	.1415	.2198	3.344	1.142	9.47
%RSD	3.411	76.60	51.02	718.6	500.2	52.13
#1	5.136	.0847	.2754	1.899	-1.035	11.47
#2	5.390	.2849	.5864	-2.830	.5790	24.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/26/2017 8:21:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	K_7664	Mg2790	Mn2576	Mo2020	Ni2316	Pb2203
Line	766.490 { 44}	279.079 {121}	257.610 {131}	202.030 {467}	231.604 {446}	220.353 {453}
IS Ref	(Y_3710)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.954	9.486	.3695	4.651	.2846	1.309
Stddev	45.82	1.000	.0373	.912	.3161	.278
%RSD	576.1	10.54	10.10	19.62	111.1	21.27
#1	40.35	10.19	.3431	4.006	.0611	1.506
#2	-24.45	8.779	.3958	5.297	.5081	1.112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Si2881	Sn1899	Ti3372	Tl1908
Line	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	337.280 {100}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.107	1.450	152.5	2.350	.7893	.5079
Stddev	.348	.222	14.2	.308	.0009	.7150
%RSD	11.19	15.33	9.307	13.12	.1173	140.8
#1	2.861	1.293	142.5	2.132	.7886	1.014
#2	3.352	1.608	162.6	2.568	.7899	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 1/26/2017 8:21:13 Type: QC
Method: 50ICP3 method build(v104) Mode: CONC Corr. Factor: 1.000000
User: MJC EPA 6010B: 50ICP3: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Na5895	Sr4077	P_1774	Li6707
Line	292.464 {115}	206.200 {463}	589.592 { 57}	407.771 { 83}	177.495 {490}	670.784 { 50}
IS Ref	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2829	-.0272	8.577	.1576	.9592	.0400
Stddev	.5123	.3616	5.156	.0456	.1470	2.251
%RSD	181.1	1330.	60.12	28.96	15.32	5632.
#1	.6451	-.2829	12.22	.1899	.8553	-1.552
#2	-.0794	.2285	4.931	.1253	1.063	1.632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7229.5	91795.	27249.
Stddev	16.6	107.	39.
%RSD	.22977	.11605	.14418
#1	7217.7	91720.	27221.
#2	7241.2	91870.	27277.

Prep Log Report

Batch Information: MPRP 23936

Template Version: EF-IN-I-317(rev.00, 30Nov2011)

Prep Method	EPA 3010	Analysis Method	EPA 6010	Extracted By	phb	Extracted Date/Time	01/23/2017 07:25:19:629
Block ID	9	Block Temp (C)	96	Correction Factor (C)	0	Corrected Temp. (C)	96.0
Thermometer ID	PT-242	Digestion Vessel Lot	133764/139414 filtermate	Batch Notes	p/b KJE 1/21/17	Reviewed By	MJC
Reviewed By Date	01/24/2017 07:09						

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	BLANK	**1712434**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	LCS	**1712435**	Water	25	134757 (1.25)	139009 (1)	25		140357 (0.5)
6010 W_P	RQS	**50163373002**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	PS	**50163373001**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	MS	**1712436**	Water	25	134757 (1.25)	139009 (1)	25	sediment	140357 (0.5)
6010 W_P	MSD	**1712437**	Water	25	134757 (1.25)	139009 (1)	25	sediment	140357 (0.5)
6010 W_P	PS	**50163373003**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	PS	**50163373004**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	PS	**50163280001**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163280002**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163280003**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163280004**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163280005**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163280006**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163281001**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163281002**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163347004**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	PS	**50163347005**	Water	50	134757 (2.5)	139009 (2)	50	sediment	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	PS	**50163347006**	Water	50	134757 (2.5)	139009 (2)	50	sediment	
6010 W_P	PS	**50163266001**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163266002**	Water	50	134757 (2.5)	139009 (2)	50		
6010 W_P	PS	**50163266003**	Water	50	134757 (2.5)	139009 (2)	50		

Standard Notes:

140357: ICP-SPK