INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

March 14, 2023

Duane Wanty
Schneider Electric USA, Inc.
70 Mechanic Street
Foxboro, Massachusetts 02035

Transmitted via Email

Re: January 2023 Split Groundwater Sampling Results
Former Square D
252 North Tippecanoe Street
Peru, Indiana 46970
VRP # 6211202

Dear Mr. Wanty:

The Indiana Department of Environmental Management (IDEM) has reviewed the January 2023 split groundwater sampling results (samples split with consultant Environmental Resources Management [ERM], sampled January 18, 2023) for the Former Square D site (Site) located at 252 N Tippecanoe Street in Peru, Indiana.

The IDEM groundwater sampling results are attached to this letter. The consultant's groundwater sampling results will be uploaded to the IDEM Virtual File Cabinet (VFC). Further site history can be found in the VFC located on the IDEM website vfc.idem.in.gov. This technical letter contains a brief background summary including comments generated during our review of the above-mentioned report.

Background

The Former Square D Site has a history of manufacturing operations dating back to 1881. The Site used to manufacture porcelain-based electrical components from the late 1800s to the mid-1900s. Hazardous/non-hazardous material usage at the Site included aerosol cans, powder coating, propane tanks used for forklifts, various oils, paints (water-based), wastewater treatment chemicals, and various chemicals/additives used in the paint line.

Release-related chemicals (RRCs) in the main building are chlorinated volatile organic compounds (cVOCs), primarily trichloroethylene (TCE) and its breakdown products. Groundwater flow is to the southeast and is not within a wellhead protection area (WHPA). IDEM has approved the delineation of the cVOC plume in soil gas and groundwater on-site in all directions except to the southeast along the approximate 300-foot portion of the downgradient property boundary.

The IDEM results of the January 2023 split groundwater sampling event are attached to this letter. A summary of the consultant's results and comparison of the sampling results are below.

Split Groundwater Sampling Results Comparison

Former Square D/Schneider Site

252 N. Tippecanoe Street, Peru, IN

Groundwater Split-Sampling Results - 1/18/2023

Groundwater Results (ug/L = ppb)	2022 IDEM RCG RGWSL	MW-31 (On-Site)			MW-32D			MW-32S/Duplicate						MW-34D		
		SCHNEIDER	IDEM	%RPD	SCHNEIDER	IDEM	%RPD	SCHNEIDER	IDEM	%RPD	SCHNEIDER	IDEM	%RPD	SCHNEIDER	IDEM	%RPD
1,1-Dichloroethene	**7**	**53.4**	**57.7**	**7.74%**	**5**	**5.5**	**9.52%**	**0.67 J**	ND	**N/A**	**0.67 J**	ND	**N/A**	**1.1 J**	**1.2**	**8.70%**
cis-1,2-Dichloroethene	**70**	**8,790**	**7,550**	**15.17%**	**1,250**	**1,270**	**1.59%**	**408**	**373**	**8.96%**	**400**	**342**	**15.63%**	**675**	**586**	**14.11%**
trans-1,2-Dichloroethene	**100**	**148**	**157**	**5.90%**	**12.6**	**12**	**4.87%**	**2 J**	**1.4**	**35.29%**	**1.6 J**	**1.4**	**13.33%**	**5 J**	**5.0**	**0.00%**
Trichloroethene	**5**	**18,000**	**16,200**	**10.52%**	< 5	ND	**N/A**	**7.7**	**9.9**	**25.00%**	**7.4**	**8.5**	**13.84%**	< 5	ND	**N/A**
Vinyl chloride	**2**	**10.4**	**13.1**	**22.98%**	**41.2**	**53**	**25.05%**	**25.9**	**29.8**	**14.00%**	**28.3**	**31.1**	**9.43%**	**3.5**	**3.8**	**8.22%**

Notes:
< = Not detected above the laboratory reporting detection limit as shown.
MW = monitoring well
ug/L = micrograms per liter
Bold = Analyte detected above laboratory reporting limit
J = Result is below reporting limit, but greater than or equal to the MDL, & is an approximate value
BLANK = No IDEM reporting limit listed & sample was non-detect.
ND = Not detected
Concentrations highlighted in light blue exceed 2022 IDEM Residential Groundwater Screening Level (July 2022)

Analysis of Results

The results of this groundwater sampling event were validated by the IDEM Chemistry Services Section and found acceptable for use. The data are usable for the overall project goal and compare well with a preliminary submission of ERM's sampling results, which have not been submitted to IDEM for complete review. The purpose of this split groundwater sampling event was to verify sample results and address community concerns regarding acceptability of lab-analyzed results. The wells selected for this event were MW-31, MW-32S, MW-32D, MW-33D, and MW-34D. MW-31 is on-site and the remainder monitoring wells are off-site. These wells were selected by the IDEM project manager and technical staff based on historic detections of site-related contaminants.

1,1-dichloroethene (DCE) (57.7 ppb in MW-31), cis-1,2-DCE (342 – 7,550 ppb), trans-1,2-DCE (157 ppb in MW-31), TCE (8.5 – 16,200 ppb), and vinyl chloride (3.8 – 31.1 ppb) were detected in the groundwater samples above their respective IDEM Risk-based Closure Guide (R2) groundwater published levels (GWPLs).

Samples for MW-31 required dilutions when being analyzed in the laboratory. Samples containing high concentrations of contaminants require dilutions to meet test ranges, referred to as dilution factors (DL). Dilutions are performed to calculate the highly concentrated analytes, or contaminants, which include VOCs for this sampling event. Dilutions can lead to some variation between results in split sampling events. However, these results are within the expected range and compare well. The results are acceptable for the overall project goal.

The sample from MW-32S included a duplicate to establish representativeness of field sampling. The laboratory does not know where any of the samples are taken. The groundwater duplicate samples were in good agreement and established that samples were generally homogeneous and had the required low variability.

Field blanks are used to identify sample contamination resulting from sampling containers, chemical preservatives in the sampling containers, and the handling and transport of samples. The field blanks for this sampling event were analyzed for VOCs and came back as non-detect, showing that sampling containers were appropriately clean and sampling results were not impacted by the containers used in this sampling event.

The laboratory-performed quality assurance/quality control (QA/QC) measures are necessary to validate analytical results for this sampling event. The data was determined to be valid and all QA/QC criteria were satisfactorily met. Groundwater samples were analyzed for volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method SW846-8260.

The data collected in this groundwater sampling event is determined to be usable for the overall project goal. The results compare well with ERM's results as submitted to IDEM for this comparison and analysis letter.

Please submit ERM's groundwater sampling results in the upcoming April submittal. ERM must notify IDEM prior to conducting field work. If you have any questions, please contact me at (317) 232-8517, (800) 451-6027, or at CNDay@idem.in.gov.

Sincerely,

Chelsea Day

Chelsea Day,
Project Manager
Voluntary Remediation Program
Office of Land Quality

ec: Aaron Friedrich, ERM; Aaron.Friedrich@erm.com
Duane Wanty, Schneider Electric; Duane.Wanty@se.com

It is the goal of IDEM to enable remediation sites to move forward in a timely manner. If an impasse has been reached over technical issues, a Technical Review Panel of non OLQ scientists is available to review and offer a non-binding opinion to help resolve technical disagreements with the VRP and State Cleanup Program project managers. The goal is to facilitate progress at your site. This review process is available immediately. If you would like to request a review by the Panel, please contact Kevin Davis, Remediation Services Branch Chief for the Office of Land Quality, at 317-232-4535 or kdavis2@idem.in.gov.

Any decision produced by the Technical Review Panel is not an agency action as defined in IC § 4-21.5-1-4 or an order as defined in IC §4-21.5-1-9. This decision is not subject to administrative review because it is not a determination of any legal rights, duties, privileges, immunities, or other legal interests, and because it is issued pursuant to an informal procedure for dispute resolution as allowed by IC 4-21.5-3-34 (a).

OLQ CHEMISTRY - REFER TO ATTACHED MEMO

Volatile Organic Analysis

Site Name:	**Former Square D**	**Water**	
Site Number:	6211202		
Location:	Peru, Miami Co., Indiana		
Date Sampled:	18-Jan-23		
Date Reported:	31-Jan-23		
Sample Numbers:	LA2265 - LA2270		
Lab:	Pace Analytical	UNITS:	**ug/L**

Sample #		Type/ID#	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride
Lab	IDEM						
R2 GWPLs			*7*	*70*	*100*	*5*	*2*
50335726001	LA2265	MW-34D	**1.2**	**586**	5.0		**3.8**
50335726002	LA2266	MW-32S**		**373**	1.4	**9.9**	**29.8**
50335726003	LA2267	MW-32S**		**342**	1.4	**8.5**	**31.1**
50335726004	LA2268	MW-32D	5.5	**1,270**	12		**53**
50335726005	LA2269	MW-31	**57.7**	**7,550**	**157**	**16,200**	**13.1**
50335726006	LA2270	Trip Blank					

* BLANK (Type indicated)
** FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE
NR = NOT RUN NA=NOT AVAILABLE **Bold** = Above R2 GWPL

OLQ Sample Request

(Only fill out fields highlighted) **Instructions**

Date Requested: 1/12/2023
Automatically filled in

Sample Numbers (to be entered by Sample Setup Chemist (SSC)): LA2265 - LA2270

Site Name: Former Square D

Site ID#: 6211202

PeopleSoft Site ID#: 6211202

Grant Code (PeopleSoft): 495326800035710

Cost Recoverable? Yes

Street Address: 252 N Tippecanoe St

City: Peru

County: Miami

Person requesting Samples (Last Name, First Name): Day, Chelsea

Section: VRP

Phone: 3172328517

Sampler (if person requesting even will not be at sampling event):Sampler(s): Craig Pender, Shane Schmidt, Chelsea Day

Phone:

Site Manager/Facility Contact: Duane Wanty

Phone:

Comments: Briefly describe the problem sampling and analysis should resolve. Identify thresholds or action levels for decision criteria. Identify the sampling locations by map, site document, or descriptive sampling points.

Remember to upload the field documentation to the Field Sheets library in SharePoint after the sampling event. Upload Steps

Split sampling with consultant

GPS coordinates are needed for every sampling event. Unless coordinates are already known for each sampling point (e.g., existing monitoring wells), check out a GPS unit and take coordinates at each sampling location. See Shane Moore if you need assistance.

DQO: Preliminary/Screening

Protocol: SW846

SW-846: Suitable for most purposes. **Drinking Water**: Only use for drinking water samples. **Drinking Water/SW-846**: Samples will be analyzed for additional parameters. **SAS-Air**: Special Analytical Services for all VI samples. **SAS-See QAO**: other SAS analyses.

Add any attachments here.

Matrix Type: Ground Water

Dedicated Equipment? ☐
Check if using single use, disposable equipment. Do not check if it will need to be decontaminated between uses.

This Section is for Air Analysis Only:

Canister Certification (Includes vacuum and pressure gauge):
Batch cleaned: selected canisters are clean certified (usually one in twelve). **Individually cleaned**: All canisters are clean certified.

Flow Controller:

Analysis:
Parameters: If you have more than 8 different analyses, please choose "See SOW" and indicate the needed items in "Reason for Sampling".

	Analysis_1	Analysis_2	Analysis_3	Analysis_4	Analysis_5	Analysis_6	Analysis_7	Analysis_8
	A - VOA (full list							
# Samples	4							
# Dups	1							
# Trip Blanks	1							
# Eq. blanks	0							
Total:	6	0	0	0	0	0	0	0

Projected Sample Date: 1/18/2023
Date on which you expect to collect the samples. Please try to avoid collecting on Saturdays unless you can get the samples to the lab by the end of the day. For multiple dates, enter the first date and explain in Comments field above.

Projected Date to Lab: 1/19/2023
Try to avoid delivery to the lab on Saturdays - labs are sometimes closed on weekends, or charge high "emergency" response fees to have someone on hand to accept weekend deliveries. For multiple dates, enter the first date and explain in Comments field above.

Turnaround Time: 30 Days
Normal TAT is 30 Days. Shorter TATs increase the costs.

Container Arrival: 1/17/2023
Date for either cooler arrival (out-of-state labs) or when you would like to pick up the cooler (in-state labs). **Please note: If you do not need coolers or bottles, type: NA.**

Approver: HOLLAND, BILL **Project Manager must identify approver (SC, BC, or SEM1) in this field.**

Approvers: **Click below to approve/reject sampling event. The approval status and date will automatically be captured.**

Approval Date: Automatically captured 1/12/2023

Lab Assigned: (for SSC)	Lab Contact: (for SSC)	Lab Contact Date: (for SSC)	Projected Cost: (for SSC)
Pace	Olivia Deck	1/12/2023	$240.00
Actual Date to Lab: (for SSC)	**Date Package Due: (for SSC)**	**Preliminary Results rec'd: (SSC)**	**Package Received: (for SSC)**

Approvals: $0-$10,000 - SC; $10,001-$20,000 - Add BC; $20,001-$40,000 - Add AC; Over $40,000 - Add IDEM CFO

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SITE INFORMATION *

IDEM Sample #s: LA2265 – LA2270 Sampling Date(s): January 18, 2023

Site Name: Former Square D Site ID #: 6211202

Street Address: 252 N Tippecanoe St City: Peru County: Miami

Site Representative(s): Jacob Porta + Jim Goodsell Company: ERM

IDEM Samplers: Chelsea Day, Craig Kreider, Shane Schmidt Laboratory: Pace

Weather Conditions: Sky ______ Ground ______ Wind ______ Temp ______ Humidity ______

Sample Type (check all applicable): ☒ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Other ______

Sample Choice (check): ☒ Grab ☐ Composite ☐ Statistical ☐ Random ☐ Judgmental

Sampling Equipment Used: Low Flow

Decontamination Procedures: ______

Field Test Equipment Used: ______

Calibration Notes: ______

Container Source: ______ Sample Preservative Source: ______

Blank Water Source: ______ Decontamination Water Source: ______

Program Area (check): ☐ RCRA ☐ CERCLA ☐ Solid Waste ☒ VRP ☐ DOD
☐ State Cleanup ☐ Emergency Response ☐ Petroleum ☐ Other ______

Purpose (check): ☐ Complaint ☐ Compliance ☐ Enforcement ☐ Other ______

Constituents Expected: ______ Handling Precaution: ☐ Yes ☐ No

Photos Taken? ☐ Yes ☒ No Send analytical data review to: ______ Phone: ______

Other Notes or Deviations from Sampling Plan: ______

Revised 08-26-20

Sampler Signature: [signature] **Date:** 1/19/23

* This form is for general use in OLQ sampling projects.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: ~~LA2265 - LA2270~~ CWD Former Square D County: Miami

IDEM/OLQ Sample #: LA2265 Sample ID: ~~02~~ CWD MW-34 D

Collection Date: 01 / 18 / 2023 Time: 10 : 00 AM / PM

Sample Type (check all applicable): ☒ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand

☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge

☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste

☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Trip Blank ☐ Field Blank ☐ Equipment Blank

☐ Background ☐ MS/MSD ☐ Duplicate of ________ ☐ Other ________

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 ~~50~~ CWD mL	Glass	3	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)

MW-34 D

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.

Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Low flow

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan: Conductivity meter not working

Revision 08-26-20 Sampler Signature: [signature] Date: 1/18/23

* This form is for general use in OLQ sampling projects

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: Former Square D
County: Miami
IDEM/OLQ Sample #: LA-2266
Sample ID: MW-32S
Collection Date: 01 / 18 / 2023
Time: 12 : 00 AM / PM (PM circled)

Sample Type (check all applicable): ☒ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Trip Blank ☐ Field Blank ☐ Equipment Blank
☐ Background ☐ MS/MSD ☒ Duplicate of LA-2267 ☐ Other ____

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 ~~?~~ CNO ml	Glass	3	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.
Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Low flow

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan: Conductivity Meter not working

Sampler Signature: [signature] Date: 1/18/23

Revision 08-26-20
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: Former Square D
County: Miami
IDEM/OLQ Sample #: LA-2267
Sample ID: MW-32S
Collection Date: 1 / 18 / 2023
Time: 12 : 20 AM / PM

Sample Type (check all applicable): ☑ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Trip Blank ☐ Field Blank ☐ Equipment Blank
☐ Background ☐ MS/MSD ☑ Duplicate of LA-2266 ☐ Other

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 ~~xx~~ ML	Glass	3	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.
Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Low flow

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan: Conductivity meter not working

Sampler Signature: [signature] Date: 1/18/23

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: Former Square D — County: Miami
IDEM/OLQ Sample #: LA-2268 — Sample ID: MW-32D
Collection Date: 1 / 18 / 2023 — Time: 1 : 15 AM / PM (PM circled)

Sample Type (check all applicable): ☒ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Trip Blank ☐ Field Blank ☐ Equipment Blank
☐ Background ☒ MS/MSD ☐ Duplicate of ______ ☐ Other ______

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 ~~50~~ mL	Glass	9	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.
Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Low flow

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan: Conductivity meter not working

Revision 08-26-20 — Sampler Signature: [signature] — Date: 1/18/23

* This form is for general use in OLQ sampling projects

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: Former Square D County: Miami
IDEM/OLQ Sample #: LA-2269 Sample ID: MW-31
Collection Date: 1 / 18 / 23 Time: 2 : 30 AM / PM (PM circled)

Sample Type (check all applicable): ☒ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☐ Trip Blank ☐ Field Blank ☐ Equipment Blank
☐ Background ☐ MS/MSD ☐ Duplicate of ____ ☐ Other ____

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 ~~50~~ mL	Glass	3	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.
Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Low Flow

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan: Conductivity meter not working

Revision 08-26-20 Sampler Signature: [signature] Date: 1/18/23

* This form is for general use in OLQ sampling projects

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SAMPLE FIELD SHEET *

Site Name: Former Square V | County: Miami
IDEM/OLQ Sample #: C4-2270 | Sample ID:
Collection Date: 1 / 18 / 2023 | Time: 3 : 00 AM / PM

Sample Type (check all applicable): ☐ Mon. Well ☐ Res. Well ☐ Soil ☐ Sediment ☐ Sand
☐ Drainage Tile ☐ Lagoon ☐ Pond ☐ Creek ☐ Ditch ☐ Leachate ☐ Sludge
☐ Industrial Waste ☐ Waste Pile ☐ Truck ☐ Roll-off ☐ Ash ☐ Drummed Waste
☐ Waste Liquid ☐ Oil ☐ Solvent ☒ Trip Blank ☐ Field Blank ☐ Equipment Blank
☐ Background ☐ MS/MSD ☐ Duplicate of ______ ☐ Other ______

Containers:

Volume	Material	Quantity	Preservative	Analysis
40 mL	Glass	3	HCl	VOCs

Sample Location Information: (location marker, GPS recorded, depth taken, vegetation damage, staining, etc.)
Trip blank supplied by Pace

For Well Samples: Well purged less than ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 12 ☐ 24 ☐ 48 hours prior to sampling.
Purged to dryness? ☐ Yes ☐ No Approx. ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ >5 well volumes.

Sampling Equipment Used: Trip blank

Field Test Performed	Result	Field Test Performed	Result

Sample Appearance and Observations: (color, odor, clarity, suspended solids, reaction to preservatives, etc.)

Deviations from Sampling Plan:

Revision 08-26-20 | Sampler Signature: [signature] | Date: 1/18/23

* This form is for general use in OLQ sampling projects

Pace®

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50335726

Table Of Contents

Pace Analytical®
www.pacelabs.com

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

January 31, 2023

Fran Metcalfe
Indiana Department of Environmental Management
100 N Senate Avenue
Office of Land Quality
Indianapolis, IN 46204

RE: Project: LA2265-LA2270
Pace Project No.: 50335726

Dear Fran Metcalfe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,

Olivia Deck
olivia.deck@pacelabs.com
(317)228-3102
Project Manager

Enclosures

cc: Craig Pender, Indiana Dept of Environmental Management

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

CERTIFICATIONS

Project:	LA2265-LA2270
Pace Project No.:	50335726

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

SAMPLE SUMMARY

Project: LA2265-LA2270
Pace Project No.: 50335726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50335726001	**LA2265**	Water	01/18/23 11:00	01/18/23 16:35
50335726002	**LA2266**	Water	01/18/23 12:00	01/18/23 16:35
50335726003	**LA2267**	Water	01/18/23 12:20	01/18/23 16:35
50335726004	**LA2268**	Water	01/18/23 13:15	01/18/23 16:35
50335726005	**LA2269**	Water	01/18/23 14:30	01/18/23 16:35
50335726006	**LA2270**	Water	01/18/23 15:00	01/18/23 16:35

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SAMPLE ANALYTE COUNT

Project: LA2265-LA2270
Pace Project No.: 50335726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50335726001	**LA2265**	EPA 5030B/8260	TKG	74	PASI-I
50335726002	**LA2266**	EPA 5030B/8260	TKG	74	PASI-I
50335726003	**LA2267**	EPA 5030B/8260	TKG	74	PASI-I
50335726004	**LA2268**	EPA 5030B/8260	TKG	74	PASI-I
50335726005	**LA2269**	EPA 5030B/8260	TKG	74	PASI-I
50335726006	**LA2270**	EPA 5030B/8260	TKG	74	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: LA2265-LA2270
Pace Project No.: 50335726

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50335726001	**LA2265**					
EPA 5030B/8260	1,1-Dichloroethene	1.2	ug/L	1.0	01/23/23 15:09	
EPA 5030B/8260	cis-1,2-Dichloroethene	586	ug/L	10.0	01/24/23 15:41	
EPA 5030B/8260	trans-1,2-Dichloroethene	5.0	ug/L	1.0	01/23/23 15:09	
EPA 5030B/8260	Vinyl chloride	3.8	ug/L	1.0	01/23/23 15:09	
EPA 5030B/8260	1.146:Unknown	10.1J	ug/L		01/23/23 15:09	
50335726002	**LA2266**					
EPA 5030B/8260	cis-1,2-Dichloroethene	373	ug/L	10.0	01/24/23 16:14	
EPA 5030B/8260	trans-1,2-Dichloroethene	1.4	ug/L	1.0	01/23/23 15:36	
EPA 5030B/8260	Trichloroethene	9.9	ug/L	1.0	01/23/23 15:36	
EPA 5030B/8260	Vinyl chloride	29.8	ug/L	1.0	01/23/23 15:36	
EPA 5030B/8260	1.146:Unknown	46.9J	ug/L		01/23/23 15:36	
50335726003	**LA2267**					
EPA 5030B/8260	cis-1,2-Dichloroethene	342	ug/L	10.0	01/24/23 16:46	
EPA 5030B/8260	trans-1,2-Dichloroethene	1.4	ug/L	1.0	01/23/23 16:03	
EPA 5030B/8260	Trichloroethene	8.5	ug/L	1.0	01/23/23 16:03	
EPA 5030B/8260	Vinyl chloride	31.1	ug/L	1.0	01/23/23 16:03	
EPA 5030B/8260	1.146:Unknown	48.3J	ug/L		01/23/23 16:03	
50335726004	**LA2268**					
EPA 5030B/8260	1,1-Dichloroethene	5.5	ug/L	1.0	01/23/23 19:10	
EPA 5030B/8260	cis-1,2-Dichloroethene	1270	ug/L	10.0	01/24/23 17:19	
EPA 5030B/8260	trans-1,2-Dichloroethene	12.0	ug/L	1.0	01/23/23 19:10	
EPA 5030B/8260	Vinyl chloride	53.0	ug/L	1.0	01/23/23 19:10	
EPA 5030B/8260	1.146:Unknown	64.3J	ug/L		01/23/23 19:10	
50335726005	**LA2269**					
EPA 5030B/8260	1,1-Dichloroethene	57.7	ug/L	1.0	01/23/23 16:29	
EPA 5030B/8260	cis-1,2-Dichloroethene	7550	ug/L	100	01/24/23 17:52	
EPA 5030B/8260	trans-1,2-Dichloroethene	157	ug/L	1.0	01/23/23 16:29	
EPA 5030B/8260	Trichloroethene	16200	ug/L	100	01/24/23 17:52	
EPA 5030B/8260	Vinyl chloride	13.1	ug/L	1.0	01/23/23 16:29	
EPA 5030B/8260	1.146:Unknown	28.2J	ug/L		01/23/23 16:29	
50335726006	**LA2270**					
EPA 5030B/8260	3.983:Unknown	18.8J	ug/L		01/27/23 13:02	

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PROJECT NARRATIVE

Project: LA2265-LA2270
Pace Project No.: 50335726

Method: **EPA 5030B/8260**
Description: 8260 MSV Low Level
Client: IDEM Senate Avenue
Date: January 31, 2023

General Information:
6 samples were analyzed for EPA 5030B/8260 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 716389

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 3289829)
  - Vinyl acetate

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 715729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50335726004

R1: RPD value was outside control limits.

- MSD (Lab ID: 3287470)
  - Bromomethane

QC Batch: 716389

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50336153001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3289830)

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PROJECT NARRATIVE

Project: LA2265-LA2270
Pace Project No.: 50335726

Method: **EPA 5030B/8260**
Description: 8260 MSV Low Level
Client: IDEM Senate Avenue
Date: January 31, 2023

QC Batch: 716389

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50336153001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Vinyl acetate
- MSD (Lab ID: 3289831)
  - Vinyl acetate

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3289831)
  - 1,1,1-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,2-Dibromoethane (EDB)
  - Bromodichloromethane
  - Dibromomethane

R1: RPD value was outside control limits.

- MSD (Lab ID: 3289831)
  - Iodomethane

Additional Comments:

Analyte Comments:

QC Batch: 715729

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3287469)
  - cis-1,2-Dichloroethene
- MSD (Lab ID: 3287470)
  - cis-1,2-Dichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2265 **Lab ID: 50335726001** Collected: 01/18/23 11:00 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/23/23 15:09	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/23/23 15:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/23/23 15:09	107-13-1	
Benzene	ND	ug/L	1.0	1		01/23/23 15:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/23/23 15:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/23/23 15:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/23 15:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/23 15:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/23/23 15:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/23/23 15:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/23/23 15:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/23 15:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/23/23 15:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/23 15:09	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/23/23 15:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 15:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 15:09	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/23/23 15:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/23/23 15:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/23/23 15:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/23/23 15:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/23/23 15:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/23/23 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/23 15:09	107-06-2	
1,1-Dichloroethene	**1.2**	ug/L	1.0	1		01/23/23 15:09	75-35-4	
cis-1,2-Dichloroethene	**586**	ug/L	10.0	10		01/24/23 15:41	156-59-2	
trans-1,2-Dichloroethene	**5.0**	ug/L	1.0	1		01/23/23 15:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/23/23 15:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/23/23 15:09	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/23/23 15:09	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/23/23 15:09	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/23/23 15:09	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2265 **Lab ID: 50335726001** Collected: 01/18/23 11:00 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/23/23 15:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/23/23 15:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/23/23 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/23/23 15:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/23/23 15:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/23/23 15:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	103-65-1	
Styrene	ND	ug/L	1.0	1		01/23/23 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 15:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/23 15:09	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/23 15:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/23 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/23 15:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/23/23 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/23/23 15:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/23/23 15:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 15:09	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/23/23 15:09	108-05-4	
Vinyl chloride	**3.8**	ug/L	1.0	1		01/23/23 15:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/23 15:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%.	79-124	1		01/23/23 15:09	460-00-4	
Dibromofluoromethane (S)	108	%.	82-128	1		01/23/23 15:09	1868-53-7	
Toluene-d8 (S)	95	%.	73-122	1		01/23/23 15:09	2037-26-5	
Tentatively Identified Compounds								
Unknown	**10.1J**	ug/L		1		01/23/23 15:09		

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2266 **Lab ID: 50335726002** Collected: 01/18/23 12:00 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/23/23 15:36	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/23/23 15:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/23/23 15:36	107-13-1	
Benzene	ND	ug/L	1.0	1		01/23/23 15:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/23/23 15:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/23/23 15:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/23 15:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/23 15:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/23/23 15:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/23/23 15:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/23/23 15:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/23 15:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/23/23 15:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/23 15:36	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/23/23 15:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 15:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 15:36	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/23/23 15:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/23/23 15:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/23/23 15:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/23/23 15:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/23/23 15:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/23/23 15:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/23 15:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/23/23 15:36	75-35-4	
cis-1,2-Dichloroethene	**373**	ug/L	10.0	10		01/24/23 16:14	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		01/23/23 15:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 15:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 15:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/23/23 15:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/23/23 15:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/23/23 15:36	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/23/23 15:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/23/23 15:36	74-88-4	

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2266	**Lab ID: 50335726002**	Collected: 01/18/23 12:00	Received: 01/18/23 16:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/23/23 15:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/23/23 15:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/23/23 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/23/23 15:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/23/23 15:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/23/23 15:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	103-65-1	
Styrene	ND	ug/L	1.0	1		01/23/23 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 15:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/23 15:36	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/23 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 15:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/23 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/23 15:36	79-00-5	
Trichloroethene	**9.9**	ug/L	1.0	1		01/23/23 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/23/23 15:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/23/23 15:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 15:36	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/23/23 15:36	108-05-4	
Vinyl chloride	**29.8**	ug/L	1.0	1		01/23/23 15:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/23 15:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%.	79-124	1		01/23/23 15:36	460-00-4	
Dibromofluoromethane (S)	106	%.	82-128	1		01/23/23 15:36	1868-53-7	
Toluene-d8 (S)	96	%.	73-122	1		01/23/23 15:36	2037-26-5	
Tentatively Identified Compounds								
Unknown	**46.9J**	ug/L		1		01/23/23 15:36		

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2267 **Lab ID: 50335726003** Collected: 01/18/23 12:20 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/23/23 16:03	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/23/23 16:03	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/23/23 16:03	107-13-1	
Benzene	ND	ug/L	1.0	1		01/23/23 16:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/23/23 16:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/23/23 16:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/23 16:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/23 16:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/23/23 16:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/23/23 16:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/23/23 16:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/23 16:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/23/23 16:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/23 16:03	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/23/23 16:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 16:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 16:03	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/23/23 16:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/23/23 16:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/23/23 16:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/23/23 16:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/23/23 16:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/23/23 16:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/23 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/23/23 16:03	75-35-4	
cis-1,2-Dichloroethene	**342**	ug/L	10.0	10		01/24/23 16:46	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		01/23/23 16:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/23/23 16:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/23/23 16:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/23/23 16:03	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/23/23 16:03	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/23/23 16:03	74-88-4	

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2267 **Lab ID: 50335726003** Collected: 01/18/23 12:20 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/23/23 16:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/23/23 16:03	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/23/23 16:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/23/23 16:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/23/23 16:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/23/23 16:03	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	103-65-1	
Styrene	ND	ug/L	1.0	1		01/23/23 16:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 16:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 16:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/23 16:03	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/23 16:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/23 16:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/23 16:03	79-00-5	
Trichloroethene	**8.5**	ug/L	1.0	1		01/23/23 16:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/23/23 16:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/23/23 16:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 16:03	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/23/23 16:03	108-05-4	
Vinyl chloride	**31.1**	ug/L	1.0	1		01/23/23 16:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/23 16:03	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%.	79-124	1		01/23/23 16:03	460-00-4	
Dibromofluoromethane (S)	105	%.	82-128	1		01/23/23 16:03	1868-53-7	
Toluene-d8 (S)	95	%.	73-122	1		01/23/23 16:03	2037-26-5	
Tentatively Identified Compounds								
Unknown	**48.3J**	ug/L		1		01/23/23 16:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2268 **Lab ID: 50335726004** Collected: 01/18/23 13:15 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/23/23 19:10	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/23/23 19:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/23/23 19:10	107-13-1	
Benzene	ND	ug/L	1.0	1		01/23/23 19:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/23/23 19:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/23/23 19:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/23 19:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/23 19:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/23/23 19:10	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	20.0	1		01/23/23 19:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/23/23 19:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/23 19:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/23/23 19:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/23 19:10	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/23/23 19:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 19:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 19:10	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/23/23 19:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/23/23 19:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/23/23 19:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/23/23 19:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/23/23 19:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/23/23 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/23 19:10	107-06-2	
1,1-Dichloroethene	**5.5**	ug/L	1.0	1		01/23/23 19:10	75-35-4	
cis-1,2-Dichloroethene	**1270**	ug/L	10.0	10		01/24/23 17:19	156-59-2	
trans-1,2-Dichloroethene	**12.0**	ug/L	1.0	1		01/23/23 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 19:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/23/23 19:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 19:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/23/23 19:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 19:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/23/23 19:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/23/23 19:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/23/23 19:10	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/23/23 19:10	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/23/23 19:10	74-88-4	

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2268 **Lab ID: 50335726004** Collected: 01/18/23 13:15 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/23/23 19:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/23/23 19:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/23/23 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/23/23 19:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/23/23 19:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/23/23 19:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	103-65-1	
Styrene	ND	ug/L	1.0	1		01/23/23 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 19:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/23 19:10	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/23 19:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/23 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/23 19:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/23/23 19:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/23/23 19:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/23/23 19:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 19:10	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/23/23 19:10	108-05-4	
Vinyl chloride	**53.0**	ug/L	1.0	1		01/23/23 19:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/23 19:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%.	79-124	1		01/23/23 19:10	460-00-4	
Dibromofluoromethane (S)	106	%.	82-128	1		01/23/23 19:10	1868-53-7	
Toluene-d8 (S)	95	%.	73-122	1		01/23/23 19:10	2037-26-5	
Tentatively Identified Compounds								
Unknown	**64.3J**	ug/L		1		01/23/23 19:10		

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2269 **Lab ID: 50335726005** Collected: 01/18/23 14:30 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/23/23 16:29	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/23/23 16:29	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/23/23 16:29	107-13-1	
Benzene	ND	ug/L	1.0	1		01/23/23 16:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/23/23 16:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/23/23 16:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/23 16:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/23 16:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/23/23 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/23/23 16:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/23/23 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/23 16:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/23/23 16:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/23 16:29	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/23/23 16:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 16:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/23/23 16:29	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/23/23 16:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/23/23 16:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/23/23 16:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/23/23 16:29	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/23/23 16:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/23/23 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/23 16:29	107-06-2	
1,1-Dichloroethene	**57.7**	ug/L	1.0	1		01/23/23 16:29	75-35-4	
cis-1,2-Dichloroethene	**7550**	ug/L	100	100		01/24/23 17:52	156-59-2	
trans-1,2-Dichloroethene	**157**	ug/L	1.0	1		01/23/23 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/23/23 16:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/23/23 16:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/23/23 16:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/23/23 16:29	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/23/23 16:29	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/23/23 16:29	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/23/23 16:29	74-88-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2269 **Lab ID: 50335726005** Collected: 01/18/23 14:30 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/23/23 16:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/23/23 16:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/23/23 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/23/23 16:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/23/23 16:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/23/23 16:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	103-65-1	
Styrene	ND	ug/L	1.0	1		01/23/23 16:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 16:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/23 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/23 16:29	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/23 16:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/23/23 16:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/23 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/23 16:29	79-00-5	
Trichloroethene	**16200**	ug/L	100	100		01/24/23 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/23/23 16:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/23/23 16:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/23/23 16:29	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/23/23 16:29	108-05-4	
Vinyl chloride	**13.1**	ug/L	1.0	1		01/23/23 16:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/23 16:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%.	79-124	1		01/23/23 16:29	460-00-4	
Dibromofluoromethane (S)	105	%.	82-128	1		01/23/23 16:29	1868-53-7	
Toluene-d8 (S)	94	%.	73-122	1		01/23/23 16:29	2037-26-5	
Tentatively Identified Compounds								
Unknown	**28.2J**	ug/L		1		01/23/23 16:29		

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2270 **Lab ID: 50335726006** Collected: 01/18/23 15:00 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	20.0	1		01/27/23 13:02	67-64-1	
Acrolein	ND	ug/L	20.0	1		01/27/23 13:02	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/27/23 13:02	107-13-1	
Benzene	ND	ug/L	1.0	1		01/27/23 13:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/27/23 13:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/27/23 13:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/27/23 13:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/27/23 13:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/27/23 13:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		01/27/23 13:02	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/27/23 13:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/27/23 13:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	108-90-7	
Chloroethane	ND	ug/L	2.0	1		01/27/23 13:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/27/23 13:02	67-66-3	
Chloromethane	ND	ug/L	2.0	1		01/27/23 13:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/27/23 13:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/27/23 13:02	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		01/27/23 13:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/27/23 13:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/27/23 13:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		01/27/23 13:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	2.0	1		01/27/23 13:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/27/23 13:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/27/23 13:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/27/23 13:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/27/23 13:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/27/23 13:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/27/23 13:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/27/23 13:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/27/23 13:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/27/23 13:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/27/23 13:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/27/23 13:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	100-41-4	
Ethyl methacrylate	ND	ug/L	20.0	1		01/27/23 13:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/27/23 13:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/27/23 13:02	110-54-3	
2-Hexanone	ND	ug/L	20.0	1		01/27/23 13:02	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/27/23 13:02	74-88-4	

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ANALYTICAL RESULTS

Project: LA2265-LA2270
Pace Project No.: 50335726

Sample: LA2270 **Lab ID: 50335726006** Collected: 01/18/23 15:00 Received: 01/18/23 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/27/23 13:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/27/23 13:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/27/23 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	1		01/27/23 13:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/27/23 13:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/27/23 13:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	103-65-1	
Styrene	ND	ug/L	1.0	1		01/27/23 13:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/27/23 13:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/27/23 13:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/27/23 13:02	127-18-4	
Toluene	ND	ug/L	1.0	1		01/27/23 13:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/27/23 13:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/27/23 13:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/27/23 13:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/27/23 13:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	1		01/27/23 13:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/27/23 13:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/27/23 13:02	108-67-8	
Vinyl acetate	ND	ug/L	20.0	1		01/27/23 13:02	108-05-4	L1
Vinyl chloride	ND	ug/L	1.0	1		01/27/23 13:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/27/23 13:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%.	79-124	1		01/27/23 13:02	460-00-4	
Dibromofluoromethane (S)	101	%.	82-128	1		01/27/23 13:02	1868-53-7	
Toluene-d8 (S)	99	%.	73-122	1		01/27/23 13:02	2037-26-5	
Tentatively Identified Compounds								
Unknown	**18.8J**	ug/L		1		01/27/23 13:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

QC Batch: 715729
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50335726001, 50335726002, 50335726003, 50335726004, 50335726005

METHOD BLANK: 3287445 Matrix: Water
Associated Lab Samples: 50335726001, 50335726002, 50335726003, 50335726004, 50335726005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,1-Dichloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,1-Dichloroethene	ug/L	ND	1.0	01/23/23 12:29	
1,1-Dichloropropene	ug/L	ND	1.0	01/23/23 12:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/23/23 12:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/23/23 12:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/23/23 12:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	01/23/23 12:29	
1,2-Dichloropropane	ug/L	ND	1.0	01/23/23 12:29	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/23/23 12:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
1,3-Dichloropropane	ug/L	ND	1.0	01/23/23 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
2,2-Dichloropropane	ug/L	ND	1.0	01/23/23 12:29	
2-Butanone (MEK)	ug/L	ND	20.0	01/23/23 12:29	
2-Chlorotoluene	ug/L	ND	1.0	01/23/23 12:29	
2-Hexanone	ug/L	ND	20.0	01/23/23 12:29	
4-Chlorotoluene	ug/L	ND	1.0	01/23/23 12:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20.0	01/23/23 12:29	
Acetone	ug/L	ND	20.0	01/23/23 12:29	
Acrolein	ug/L	ND	20.0	01/23/23 12:29	
Acrylonitrile	ug/L	ND	100	01/23/23 12:29	
Benzene	ug/L	ND	1.0	01/23/23 12:29	
Bromobenzene	ug/L	ND	1.0	01/23/23 12:29	
Bromochloromethane	ug/L	ND	1.0	01/23/23 12:29	
Bromodichloromethane	ug/L	ND	1.0	01/23/23 12:29	
Bromoform	ug/L	ND	1.0	01/23/23 12:29	
Bromomethane	ug/L	ND	2.0	01/23/23 12:29	
Carbon disulfide	ug/L	ND	5.0	01/23/23 12:29	
Carbon tetrachloride	ug/L	ND	1.0	01/23/23 12:29	
Chlorobenzene	ug/L	ND	1.0	01/23/23 12:29	
Chloroethane	ug/L	ND	2.0	01/23/23 12:29	
Chloroform	ug/L	ND	1.0	01/23/23 12:29	
Chloromethane	ug/L	ND	2.0	01/23/23 12:29	

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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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

METHOD BLANK: 3287445 Matrix: Water

Associated Lab Samples: 50335726001, 50335726002, 50335726003, 50335726004, 50335726005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/23/23 12:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/23/23 12:29	
Dibromochloromethane	ug/L	ND	1.0	01/23/23 12:29	
Dibromomethane	ug/L	ND	1.0	01/23/23 12:29	
Dichlorodifluoromethane	ug/L	ND	2.0	01/23/23 12:29	
Ethyl methacrylate	ug/L	ND	20.0	01/23/23 12:29	
Ethylbenzene	ug/L	ND	1.0	01/23/23 12:29	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/23/23 12:29	
Iodomethane	ug/L	ND	5.0	01/23/23 12:29	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/23/23 12:29	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/23/23 12:29	
Methylene Chloride	ug/L	ND	5.0	01/23/23 12:29	
n-Butylbenzene	ug/L	ND	1.0	01/23/23 12:29	
n-Hexane	ug/L	ND	5.0	01/23/23 12:29	
n-Propylbenzene	ug/L	ND	1.0	01/23/23 12:29	
Naphthalene	ug/L	ND	1.0	01/23/23 12:29	
p-Isopropyltoluene	ug/L	ND	1.0	01/23/23 12:29	
sec-Butylbenzene	ug/L	ND	1.0	01/23/23 12:29	
Styrene	ug/L	ND	1.0	01/23/23 12:29	
tert-Butylbenzene	ug/L	ND	1.0	01/23/23 12:29	
Tetrachloroethene	ug/L	ND	1.0	01/23/23 12:29	
Toluene	ug/L	ND	1.0	01/23/23 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/23/23 12:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/23/23 12:29	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	01/23/23 12:29	
Trichloroethene	ug/L	ND	1.0	01/23/23 12:29	
Trichlorofluoromethane	ug/L	ND	2.0	01/23/23 12:29	
Vinyl acetate	ug/L	ND	20.0	01/23/23 12:29	
Vinyl chloride	ug/L	ND	1.0	01/23/23 12:29	
Xylene (Total)	ug/L	ND	3.0	01/23/23 12:29	
4-Bromofluorobenzene (S)	%.	95	79-124	01/23/23 12:29	
Dibromofluoromethane (S)	%.	107	82-128	01/23/23 12:29	
Toluene-d8 (S)	%.	95	73-122	01/23/23 12:29	

LABORATORY CONTROL SAMPLE: 3287446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.3	97	77-125	
1,1,1-Trichloroethane	ug/L	50	47.6	95	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	37.0	74	72-123	
1,1,2-Trichloroethane	ug/L	50	41.0	82	73-124	
1,1-Dichloroethane	ug/L	50	42.0	84	71-124	
1,1-Dichloroethene	ug/L	50	44.4	89	63-138	
1,1-Dichloropropene	ug/L	50	45.6	91	80-142	

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.

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

QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

LABORATORY CONTROL SAMPLE: 3287446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	47.4	95	67-134	
1,2,3-Trichloropropane	ug/L	50	41.0	82	75-122	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	68-132	
1,2,4-Trimethylbenzene	ug/L	50	40.1	80	71-121	
1,2-Dibromoethane (EDB)	ug/L	50	44.9	90	75-123	
1,2-Dichlorobenzene	ug/L	50	45.3	91	76-118	
1,2-Dichloroethane	ug/L	50	43.7	87	68-126	
1,2-Dichloropropane	ug/L	50	41.5	83	73-127	
1,3,5-Trimethylbenzene	ug/L	50	40.2	80	72-120	
1,3-Dichlorobenzene	ug/L	50	44.9	90	75-119	
1,3-Dichloropropane	ug/L	50	40.9	82	77-125	
1,4-Dichlorobenzene	ug/L	50	44.0	88	74-118	
2,2-Dichloropropane	ug/L	50	46.6	93	52-137	
2-Butanone (MEK)	ug/L	250	210	84	57-130	
2-Chlorotoluene	ug/L	50	38.1	76	69-123	
2-Hexanone	ug/L	250	196	78	57-130	
4-Chlorotoluene	ug/L	50	43.7	87	74-122	
4-Methyl-2-pentanone (MIBK)	ug/L	250	199	80	58-134	
Acetone	ug/L	250	204	82	41-133	
Acrolein	ug/L	1000	884	88	43-124	
Acrylonitrile	ug/L	250	223	89	66-131	
Benzene	ug/L	50	43.4	87	76-121	
Bromobenzene	ug/L	50	40.3	81	67-127	
Bromochloromethane	ug/L	50	42.2	84	65-126	
Bromodichloromethane	ug/L	50	47.3	95	72-125	
Bromoform	ug/L	50	50.1	100	57-134	
Bromomethane	ug/L	50	23.8	48	10-187	
Carbon disulfide	ug/L	50	44.7	89	59-125	
Carbon tetrachloride	ug/L	50	51.9	104	71-134	
Chlorobenzene	ug/L	50	44.9	90	74-119	
Chloroethane	ug/L	50	42.8	86	49-152	
Chloroform	ug/L	50	43.7	87	68-123	
Chloromethane	ug/L	50	42.1	84	33-133	
cis-1,2-Dichloroethene	ug/L	50	40.7	81	73-122	
cis-1,3-Dichloropropene	ug/L	50	42.3	85	69-128	
Dibromochloromethane	ug/L	50	49.7	99	69-127	
Dibromomethane	ug/L	50	47.7	95	74-126	
Dichlorodifluoromethane	ug/L	50	19.1	38	19-136	
Ethyl methacrylate	ug/L	50	39.2	78	65-127	
Ethylbenzene	ug/L	50	44.3	89	74-122	
Hexachloro-1,3-butadiene	ug/L	50	52.5	105	65-140	
Iodomethane	ug/L	50	72.1	144	10-181	
Isopropylbenzene (Cumene)	ug/L	50	43.3	87	75-124	
Methyl-tert-butyl ether	ug/L	50	42.6	85	71-125	
Methylene Chloride	ug/L	50	45.3	91	71-125	
n-Butylbenzene	ug/L	50	38.9	78	68-124	
n-Hexane	ug/L	50	40.9	82	60-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

LABORATORY CONTROL SAMPLE: 3287446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	38.4	77	75-122	
Naphthalene	ug/L	50	42.6	85	69-128	
p-Isopropyltoluene	ug/L	50	42.6	85	73-125	
sec-Butylbenzene	ug/L	50	40.5	81	76-125	
Styrene	ug/L	50	44.2	88	74-126	
tert-Butylbenzene	ug/L	50	37.5	75	69-123	
Tetrachloroethene	ug/L	50	50.4	101	74-129	
Toluene	ug/L	50	40.2	80	70-118	
trans-1,2-Dichloroethene	ug/L	50	41.1	82	69-124	
trans-1,3-Dichloropropene	ug/L	50	40.9	82	66-125	
trans-1,4-Dichloro-2-butene	ug/L	50	39.7	79	43-155	
Trichloroethene	ug/L	50	45.8	92	73-125	
Trichlorofluoromethane	ug/L	50	49.9	100	56-139	
Vinyl acetate	ug/L	200	182	91	46-101	
Vinyl chloride	ug/L	50	43.1	86	46-134	
Xylene (Total)	ug/L	150	133	89	71-123	
4-Bromofluorobenzene (S)	%.			96	79-124	
Dibromofluoromethane (S)	%.			104	82-128	
Toluene-d8 (S)	%.			94	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3287469 3287470

Parameter	Units	50335726004 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	48.6	52.8	97	106	64-142	8	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.4	55.3	105	111	60-143	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	38.2	40.5	76	81	64-135	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	43.3	45.3	87	91	66-137	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.9	50.1	94	100	62-144	7	20	
1,1-Dichloroethene	ug/L	5.5	50	50	51.0	54.7	91	98	55-158	7	20	
1,1-Dichloropropene	ug/L	ND	50	50	50.5	52.7	101	105	65-164	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	45.9	48.9	92	98	35-149	6	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	42.4	45.0	85	90	66-135	6	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	44.4	45.3	89	91	27-149	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	41.5	43.1	83	86	41-140	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	45.9	48.1	92	96	68-136	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	46.8	49.3	94	99	47-140	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	48.0	51.5	96	103	61-144	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	44.6	47.7	89	95	67-141	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	41.8	42.8	84	86	40-141	2	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	45.6	46.8	91	94	39-142	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	44.0	46.0	88	92	67-141	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	44.5	46.6	89	93	39-140	5	20	
2,2-Dichloropropane	ug/L	ND	50	50	48.6	50.4	97	101	32-144	4	20	
2-Butanone (MEK)	ug/L	ND	250	250	212	227	85	91	49-149	7	20	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3287469 3287470

Parameter	Units	50335726004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chlorotoluene	ug/L	ND	50	50	40.2	41.3	80	83	37-144	3	20	
2-Hexanone	ug/L	ND	250	250	199	212	80	85	48-147	7	20	
4-Chlorotoluene	ug/L	ND	50	50	44.9	46.7	90	93	34-148	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	205	218	82	87	50-152	6	20	
Acetone	ug/L	ND	250	250	193	211	77	84	23-157	9	20	
Acrolein	ug/L	ND	1000	1000	851	899	85	90	25-137	5	20	
Acrylonitrile	ug/L	ND	250	250	222	238	89	95	56-149	7	20	
Benzene	ug/L	ND	50	50	46.4	48.4	93	97	68-139	4	20	
Bromobenzene	ug/L	ND	50	50	43.7	45.8	87	92	49-142	5	20	
Bromochloromethane	ug/L	ND	50	50	46.9	48.7	94	97	58-143	4	20	
Bromodichloromethane	ug/L	ND	50	50	49.9	53.4	100	107	65-139	7	20	
Bromoform	ug/L	ND	50	50	47.4	50.7	95	101	51-139	7	20	
Bromomethane	ug/L	ND	50	50	40.7	25.8	81	52	10-189	45	20	R1
Carbon disulfide	ug/L	ND	50	50	44.6	46.9	89	94	45-143	5	20	
Carbon tetrachloride	ug/L	ND	50	50	56.6	59.8	113	120	61-153	6	20	
Chlorobenzene	ug/L	ND	50	50	46.6	49.3	93	99	57-137	5	20	
Chloroethane	ug/L	ND	50	50	45.8	47.4	92	95	41-183	3	20	
Chloroform	ug/L	ND	50	50	46.9	49.7	94	99	61-138	6	20	
Chloromethane	ug/L	ND	50	50	40.6	42.3	81	85	25-150	4	20	
cis-1,2-Dichloroethene	ug/L	1270	50	50	1230	1230	-88	-80	58-142	0	20	E
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.7	46.7	87	93	53-140	7	20	
Dibromochloromethane	ug/L	ND	50	50	50.8	54.0	102	108	61-139	6	20	
Dibromomethane	ug/L	ND	50	50	49.7	52.9	99	106	69-138	6	20	
Dichlorodifluoromethane	ug/L	ND	50	50	16.3	16.5	33	33	10-150	2	20	
Ethyl methacrylate	ug/L	ND	50	50	41.2	43.8	82	88	57-141	6	20	
Ethylbenzene	ug/L	ND	50	50	45.8	48.6	92	97	54-141	6	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	48.8	51.2	98	102	10-173	5	20	
Iodomethane	ug/L	ND	50	50	66.3	76.1	133	152	10-184	14	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	47.2	48.5	94	97	48-145	3	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	45.4	49.4	91	99	62-143	9	20	
Methylene Chloride	ug/L	ND	50	50	46.0	49.8	92	100	59-141	8	20	
n-Butylbenzene	ug/L	ND	50	50	39.4	38.7	79	77	19-150	2	20	
n-Hexane	ug/L	ND	50	50	36.8	36.7	74	73	44-145	0	20	
n-Propylbenzene	ug/L	ND	50	50	40.5	40.7	81	81	36-150	0	20	
Naphthalene	ug/L	ND	50	50	42.7	46.4	85	93	56-136	8	20	
p-Isopropyltoluene	ug/L	ND	50	50	43.4	44.2	87	88	28-152	2	20	
sec-Butylbenzene	ug/L	ND	50	50	43.0	43.4	86	87	36-151	1	20	
Styrene	ug/L	ND	50	50	45.4	48.2	91	96	51-146	6	20	
tert-Butylbenzene	ug/L	ND	50	50	39.0	40.4	78	81	42-142	3	20	
Tetrachloroethene	ug/L	ND	50	50	52.0	54.0	104	108	50-149	4	20	
Toluene	ug/L	ND	50	50	42.6	44.8	85	89	59-134	5	20	
trans-1,2-Dichloroethene	ug/L	12.0	50	50	53.5	58.7	83	93	57-141	9	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.7	45.0	85	90	51-136	5	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	40.3	42.9	81	86	26-157		20	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3287469 3287470

Parameter	Units	50335726004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	ND	50	50	50.3	52.0	99	102	55-147	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	47.8	51.6	96	103	55-160	8	20	
Vinyl acetate	ug/L	ND	200	200	183	187	92	93	24-109	2	20	
Vinyl chloride	ug/L	53.0	50	50	93.8	95.7	82	86	36-154	2	20	
Xylene (Total)	ug/L	ND	150	150	139	147	93	98	50-143	5	20	
4-Bromofluorobenzene (S)	%.						100	100	79-124			
Dibromofluoromethane (S)	%.						107	106	82-128			
Toluene-d8 (S)	%.						94	94	73-122			

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

QC Batch: 716389
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50335726006

METHOD BLANK: 3289828 Matrix: Water
Associated Lab Samples: 50335726006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,1-Dichloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,1-Dichloroethene	ug/L	ND	1.0	01/27/23 12:33	
1,1-Dichloropropene	ug/L	ND	1.0	01/27/23 12:33	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/27/23 12:33	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/27/23 12:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/27/23 12:33	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
1,2-Dichloroethane	ug/L	ND	1.0	01/27/23 12:33	
1,2-Dichloropropane	ug/L	ND	1.0	01/27/23 12:33	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/27/23 12:33	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
1,3-Dichloropropane	ug/L	ND	1.0	01/27/23 12:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
2,2-Dichloropropane	ug/L	ND	1.0	01/27/23 12:33	
2-Butanone (MEK)	ug/L	ND	20.0	01/27/23 12:33	
2-Chlorotoluene	ug/L	ND	1.0	01/27/23 12:33	
2-Hexanone	ug/L	ND	20.0	01/27/23 12:33	
4-Chlorotoluene	ug/L	ND	1.0	01/27/23 12:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20.0	01/27/23 12:33	
Acetone	ug/L	ND	20.0	01/27/23 12:33	
Acrolein	ug/L	ND	20.0	01/27/23 12:33	
Acrylonitrile	ug/L	ND	100	01/27/23 12:33	
Benzene	ug/L	ND	1.0	01/27/23 12:33	
Bromobenzene	ug/L	ND	1.0	01/27/23 12:33	
Bromochloromethane	ug/L	ND	1.0	01/27/23 12:33	
Bromodichloromethane	ug/L	ND	1.0	01/27/23 12:33	
Bromoform	ug/L	ND	1.0	01/27/23 12:33	
Bromomethane	ug/L	ND	2.0	01/27/23 12:33	
Carbon disulfide	ug/L	ND	5.0	01/27/23 12:33	
Carbon tetrachloride	ug/L	ND	1.0	01/27/23 12:33	
Chlorobenzene	ug/L	ND	1.0	01/27/23 12:33	
Chloroethane	ug/L	ND	2.0	01/27/23 12:33	
Chloroform	ug/L	ND	1.0	01/27/23 12:33	
Chloromethane	ug/L	ND	2.0	01/27/23 12:33	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

METHOD BLANK: 3289828 Matrix: Water
Associated Lab Samples: 50335726006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/27/23 12:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/27/23 12:33	
Dibromochloromethane	ug/L	ND	1.0	01/27/23 12:33	
Dibromomethane	ug/L	ND	1.0	01/27/23 12:33	
Dichlorodifluoromethane	ug/L	ND	2.0	01/27/23 12:33	
Ethyl methacrylate	ug/L	ND	20.0	01/27/23 12:33	
Ethylbenzene	ug/L	ND	1.0	01/27/23 12:33	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/27/23 12:33	
Iodomethane	ug/L	ND	5.0	01/27/23 12:33	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/27/23 12:33	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/27/23 12:33	
Methylene Chloride	ug/L	ND	5.0	01/27/23 12:33	
n-Butylbenzene	ug/L	ND	1.0	01/27/23 12:33	
n-Hexane	ug/L	ND	5.0	01/27/23 12:33	
n-Propylbenzene	ug/L	ND	1.0	01/27/23 12:33	
Naphthalene	ug/L	ND	1.0	01/27/23 12:33	
p-Isopropyltoluene	ug/L	ND	1.0	01/27/23 12:33	
sec-Butylbenzene	ug/L	ND	1.0	01/27/23 12:33	
Styrene	ug/L	ND	1.0	01/27/23 12:33	
tert-Butylbenzene	ug/L	ND	1.0	01/27/23 12:33	
Tetrachloroethene	ug/L	ND	1.0	01/27/23 12:33	
Toluene	ug/L	ND	1.0	01/27/23 12:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/27/23 12:33	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/27/23 12:33	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	01/27/23 12:33	
Trichloroethene	ug/L	ND	1.0	01/27/23 12:33	
Trichlorofluoromethane	ug/L	ND	2.0	01/27/23 12:33	
Vinyl acetate	ug/L	ND	20.0	01/27/23 12:33	
Vinyl chloride	ug/L	ND	1.0	01/27/23 12:33	
Xylene (Total)	ug/L	ND	3.0	01/27/23 12:33	
4-Bromofluorobenzene (S)	%.	100	79-124	01/27/23 12:33	
Dibromofluoromethane (S)	%.	102	82-128	01/27/23 12:33	
Toluene-d8 (S)	%.	99	73-122	01/27/23 12:33	

LABORATORY CONTROL SAMPLE: 3289829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	77-125	
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-125	
1,1,2,2-Tetrachloroethane	ug/L	50	52.5	105	72-123	
1,1,2-Trichloroethane	ug/L	50	51.2	102	73-124	
1,1-Dichloroethane	ug/L	50	52.1	104	71-124	
1,1-Dichloroethene	ug/L	50	51.3	103	63-138	
1,1-Dichloropropene	ug/L	50	55.5	111	80-142	

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7726 Moller Road
Indianapolis, IN 46268
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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

LABORATORY CONTROL SAMPLE: 3289829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	52.5	105	67-134	
1,2,3-Trichloropropane	ug/L	50	51.3	103	75-122	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	68-132	
1,2,4-Trimethylbenzene	ug/L	50	48.9	98	71-121	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	75-123	
1,2-Dichlorobenzene	ug/L	50	49.3	99	76-118	
1,2-Dichloroethane	ug/L	50	50.2	100	68-126	
1,2-Dichloropropane	ug/L	50	50.6	101	73-127	
1,3,5-Trimethylbenzene	ug/L	50	49.4	99	72-120	
1,3-Dichlorobenzene	ug/L	50	49.1	98	75-119	
1,3-Dichloropropane	ug/L	50	49.8	100	77-125	
1,4-Dichlorobenzene	ug/L	50	50.6	101	74-118	
2,2-Dichloropropane	ug/L	50	58.2	116	52-137	
2-Butanone (MEK)	ug/L	250	251	100	57-130	
2-Chlorotoluene	ug/L	50	49.4	99	69-123	
2-Hexanone	ug/L	250	248	99	57-130	
4-Chlorotoluene	ug/L	50	50.7	101	74-122	
4-Methyl-2-pentanone (MIBK)	ug/L	250	231	92	58-134	
Acetone	ug/L	250	213	85	41-133	
Acrolein	ug/L	1000	1020	102	43-124	
Acrylonitrile	ug/L	250	258	103	66-131	
Benzene	ug/L	50	49.6	99	76-121	
Bromobenzene	ug/L	50	46.4	93	67-127	
Bromochloromethane	ug/L	50	49.8	100	65-126	
Bromodichloromethane	ug/L	50	56.1	112	72-125	
Bromoform	ug/L	50	45.8	92	57-134	
Bromomethane	ug/L	50	29.3	59	10-187	
Carbon disulfide	ug/L	50	47.8	96	59-125	
Carbon tetrachloride	ug/L	50	53.9	108	71-134	
Chlorobenzene	ug/L	50	49.3	99	74-119	
Chloroethane	ug/L	50	44.8	90	49-152	
Chloroform	ug/L	50	51.2	102	68-123	
Chloromethane	ug/L	50	42.2	84	33-133	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	73-122	
cis-1,3-Dichloropropene	ug/L	50	54.5	109	69-128	
Dibromochloromethane	ug/L	50	54.6	109	69-127	
Dibromomethane	ug/L	50	54.3	109	74-126	
Dichlorodifluoromethane	ug/L	50	23.3	47	19-136	
Ethyl methacrylate	ug/L	50	52.6	105	65-127	
Ethylbenzene	ug/L	50	50.2	100	74-122	
Hexachloro-1,3-butadiene	ug/L	50	51.4	103	65-140	
Iodomethane	ug/L	50	52.0	104	10-181	
Isopropylbenzene (Cumene)	ug/L	50	49.5	99	75-124	
Methyl-tert-butyl ether	ug/L	50	52.7	105	71-125	
Methylene Chloride	ug/L	50	43.6	87	71-125	
n-Butylbenzene	ug/L	50	49.5	99	68-124	
n-Hexane	ug/L	50	48.5	97	60-132	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

LABORATORY CONTROL SAMPLE: 3289829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	49.3	99	75-122	
Naphthalene	ug/L	50	52.9	106	69-128	
p-Isopropyltoluene	ug/L	50	50.3	101	73-125	
sec-Butylbenzene	ug/L	50	49.5	99	76-125	
Styrene	ug/L	50	50.9	102	74-126	
tert-Butylbenzene	ug/L	50	45.9	92	69-123	
Tetrachloroethene	ug/L	50	51.5	103	74-129	
Toluene	ug/L	50	48.8	98	70-118	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	69-124	
trans-1,3-Dichloropropene	ug/L	50	53.9	108	66-125	
trans-1,4-Dichloro-2-butene	ug/L	50	53.4	107	43-155	
Trichloroethene	ug/L	50	52.4	105	73-125	
Trichlorofluoromethane	ug/L	50	47.9	96	56-139	
Vinyl acetate	ug/L	200	219	110	46-101	L1
Vinyl chloride	ug/L	50	26.9	54	46-134	
Xylene (Total)	ug/L	150	150	100	71-123	
4-Bromofluorobenzene (S)	%.			101	79-124	
Dibromofluoromethane (S)	%.			103	82-128	
Toluene-d8 (S)	%.			100	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3289830 3289831

Parameter	Units	50336153001 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	<1.0	50	50	60.0	68.0	120	136	64-142	13	20	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	65.1	73.2	130	146	60-143	12	20	M1
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	60.3	70.3	121	141	64-135	15	20	M1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	59.0	67.1	118	134	66-137	13	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	61.1	67.1	122	134	62-144	9	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	66.0	74.8	132	150	55-158	12	20	
1,1-Dichloropropene	ug/L	<1.0	50	50	66.3	74.4	133	149	65-164	12	20	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	55.5	64.2	111	128	35-149	14	20	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	59.1	65.8	118	132	66-135	11	20	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	52.2	58.2	104	116	27-149	11	20	
1,2,4-Trimethylbenzene	ug/L	<5.0	50	50	54.0	61.4	108	123	41-140	13	20	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	61.4	69.8	123	140	68-136	13	20	M1
1,2-Dichlorobenzene	ug/L	<1.0	50	50	56.3	64.2	113	128	47-140	13	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	58.3	65.8	117	132	61-144	12	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	59.2	67.3	118	135	67-141	13	20	
1,3,5-Trimethylbenzene	ug/L	<5.0	50	50	55.6	61.7	111	123	40-141	10	20	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	54.3	61.8	109	124	39-142	13	20	
1,3-Dichloropropane	ug/L	<1.0	50	50	57.0	64.6	114	129	67-141	12	20	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	55.6	63.8	111	128	39-140	14	20	
2,2-Dichloropropane	ug/L	<1.0	50	50	61.0	68.8	122	138	32-144	12	20	
2-Butanone (MEK)	ug/L	<20.0	250	250	281	323	113	129	49-149	14	20	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3289830 3289831

Parameter	Units	50336153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Chlorotoluene	ug/L	<1.0	50	50	55.7	63.0	111	126	37-144	12	20	
2-Hexanone	ug/L	<20.0	250	250	300	342	120	137	48-147	13	20	
4-Chlorotoluene	ug/L	<1.0	50	50	57.5	65.6	115	131	34-148	13	20	
4-Methyl-2-pentanone (MIBK)	ug/L	<20.0	250	250	280	319	112	128	50-152	13	20	
Acetone	ug/L	<20.0	250	250	242	284	97	114	23-157	16	20	
Acrolein	ug/L	<20.0	1000	1000	1120	1260	112	126	25-137	12	20	
Acrylonitrile	ug/L	<100	250	250	288	326	115	130	56-149	12	20	
Benzene	ug/L	<1.0	50	50	58.1	65.6	116	131	68-139	12	20	
Bromobenzene	ug/L	<1.0	50	50	53.2	61.5	106	123	49-142	14	20	
Bromochloromethane	ug/L	<1.0	50	50	56.5	64.6	113	129	58-143	13	20	
Bromodichloromethane	ug/L	<1.0	50	50	64.6	72.6	129	145	65-139	12	20	M1
Bromoform	ug/L	<1.0	50	50	51.7	58.4	103	117	51-139	12	20	
Bromomethane	ug/L	<5.0	50	50	24.5	27.1	49	54	10-189	10	20	
Carbon disulfide	ug/L	<5.0	50	50	56.5	64.6	113	129	45-143	13	20	
Carbon tetrachloride	ug/L	<1.0	50	50	64.4	72.7	129	145	61-153	12	20	
Chlorobenzene	ug/L	<1.0	50	50	56.6	64.3	113	129	57-137	13	20	
Chloroethane	ug/L	<5.0	50	50	56.3	64.2	113	128	41-183	13	20	
Chloroform	ug/L	<1.0	50	50	60.1	68.1	120	136	61-138	13	20	
Chloromethane	ug/L	<5.0	50	50	51.3	57.9	103	116	25-150	12	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	60.7	68.8	121	138	58-142	12	20	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	59.3	68.2	119	136	53-140	14	20	
Dibromochloromethane	ug/L	<1.0	50	50	60.9	69.7	122	139	61-139	14	20	
Dibromomethane	ug/L	<1.0	50	50	61.0	69.9	122	140	69-138	14	20	M1
Dichlorodifluoromethane	ug/L	<1.0	50	50	29.2	31.8	58	64	10-150	8	20	
Ethyl methacrylate	ug/L	<20.0	50	50	59.1	67.0	118	134	57-141	13	20	
Ethylbenzene	ug/L	<1.0	50	50	57.6	65.5	115	131	54-141	13	20	
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	54.8	60.0	110	120	10-173	9	20	
Iodomethane	ug/L	<5.0	50	50	55.0	68.1	110	136	10-184	21	20	R1
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	57.1	64.8	114	130	48-145	13	20	
Methyl-tert-butyl ether	ug/L	<4.0	50	50	60.3	68.6	121	137	62-143	13	20	
Methylene Chloride	ug/L	<5.0	50	50	50.7	57.0	101	114	59-141	12	20	
n-Butylbenzene	ug/L	<1.0	50	50	54.3	60.3	109	121	19-150	10	20	
n-Hexane	ug/L	<5.0	50	50	51.8	59.1	104	118	44-145	13	20	
n-Propylbenzene	ug/L	<1.0	50	50	56.1	63.6	112	127	36-150	13	20	
Naphthalene	ug/L	<1.0	50	50	57.5	66.6	115	133	56-136	15	20	
p-Isopropyltoluene	ug/L	<1.0	50	50	54.6	60.5	109	121	28-152	10	20	
sec-Butylbenzene	ug/L	<1.0	50	50	55.3	61.9	111	124	36-151	11	20	
Styrene	ug/L	<1.0	50	50	58.5	65.3	117	131	51-146	11	20	
tert-Butylbenzene	ug/L	<1.0	50	50	51.2	57.1	102	114	42-142	11	20	
Tetrachloroethene	ug/L	<1.0	50	50	58.5	66.3	117	133	50-149	13	20	
Toluene	ug/L	<1.0	50	50	56.0	63.8	112	128	59-134	13	20	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	60.9	68.3	122	137	57-141	11	20	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	58.9	66.4	118	133	51-136	12	20	
trans-1,4-Dichloro-2-butene	ug/L	<100	50	50	57.5	65.5	115	131	26-157		20	

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QUALITY CONTROL DATA

Project: LA2265-LA2270
Pace Project No.: 50335726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3289830 3289831

Parameter	Units	50336153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	<1.0	50	50	60.9	69.1	122	138	55-147	13	20	
Trichlorofluoromethane	ug/L	<5.0	50	50	62.3	70.1	125	140	55-160	12	20	
Vinyl acetate	ug/L	<20.0	200	200	235	267	118	133	24-109	13	20	M0
Vinyl chloride	ug/L	<5.0	50	50	31.2	35.3	62	71	36-154	12	20	
Xylene (Total)	ug/L	<3.0	150	150	172	193	114	128	50-143	12	20	
4-Bromofluorobenzene (S)	%.						99	99	79-124			
Dibromofluoromethane (S)	%.						102	102	82-128			
Toluene-d8 (S)	%.						98	99	73-122			

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QUALIFIERS

Project: LA2265-LA2270
Pace Project No.: 50335726

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.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LA2265-LA2270
Pace Project No.: 50335726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50335726001	**LA2265**	EPA 5030B/8260	715729		
50335726002	**LA2266**	EPA 5030B/8260	715729		
50335726003	**LA2267**	EPA 5030B/8260	715729		
50335726004	**LA2268**	EPA 5030B/8260	715729		
50335726005	**LA2269**	EPA 5030B/8260	715729		
50335726006	**LA2270**	EPA 5030B/8260	716389		

SAMPLE CUSTODY CHAIN - IDEM OFFICE OF LAND QUALITY

State Form 42091 (R2 / 12-06)

WO#: 50335726

50335726

Please Send Report to:
IDEM
OLQ Chemistry Section
Attn: QA Officer
MC 66-20 IGCN N1101
100 N Senate Avenue
Indianapolis, IN 46204-2251
www.idem.IN.gov

(1) SAMPLE CERTIFICATION - I certify the following samples were collected by me or in my presence:	Print Name: Chelsea Day
Sample Date(s): 1/18/2023	Signature: Chelsea Day

Laboratory Control Number (Lab Use)	IDEM Sample Number	Matrix or Sample Type	Glass Bottles	Plastic Bottles	40 ml Vials	Other	VOCs									(2G) COMMENTS	Date	Time	AM	PM
001	LA-2265	GW			3		3										1/18/23	11:00	X	
002	LA-2266	GW			3		3										1/18/23	12:00		X
003	LA-2267	GW			3		3										1/18/23	12:20		X
004	LA-2268	GW			9		9										1/18/23	1:15		X
005	LA-2269	GW			3		3										1/18/23	2:30		X
006	LA-2270	GW			3		3										1/18/23	3:00		X

Column groups: (2A-2C) SAMPLE INFORMATION; (2D) COUNTS; (2E-2F) ANALYSES REQUESTED; (2G) COMMENTS; (2H-2J) DATE & TIME

(3) REQUIRED TURNAROUND TIME (with full documentation)
30 days (circled) 14 days 7 days 2 days

(4) COMMENTS

(5) TRANSFER OF CUSTODY - I certify that I received the above samples.

		Date	Time
Relinquished by:	Sign Chelsea Day	1/18/23	4:35
Received by:	Sign JC		AM / PM
Relinquished by:	Sign		
Received by:	Sign		AM / PM

FOR LABORATORY USE ONLY:

Cooler Temp:	Sample Condition:

(6) LABORATORY RECEIPT OF SAMPLES
I certify that I received the above samples. After recording these samples in the official logbook, they will remain in the custody of competent lab personnel or be secured in a locked area at all times.

	Date	Time
Received by: Sign		
Laboratory:		
Address:		AM / PM

(7) DISTRIBUTION: PINK COPY - IDEM Sampler YELLOW COPY - Lab (Keep) WHITE COPY - Lab (To be Returned to IDEM with Data Package)

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: JC 1724 1/18/23

1. **Courier:** ☐ FED EX ☐ UPS ☑ CLIENT ☐ PACE ☐ USPS ☐ OTHER ______

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 A B C D E F

4. **Cooler Temperature(s):** 1.8/1.8 | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other ______

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace Wisconsin Sulfide?			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details		✓	
Trip Blank Present?	✓		
Trip Blank Custody Seals?:	✓		

COMMENTS: All containers are missing dates/times. JC 1/18/23

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H / VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1			3																									WT				
2			|																									|				
3			|																								|				
4			9																									|				
5			3																									|				
6			3																									|				
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Container Order #1044289

Addresses

Order By :		Ship To :		Return To:	
Company	IDEM Senate Avenue	Company	IDEM Senate Avenue	Company	Pace Analytical Indianapolis
Contact	Metcalfe, Fran	Contact	Metcalfe, Fran	Contact	Deck, Olivia
Email	fmetcalf@idem.in.gov	Email	fmetcalf@idem.in.gov	Email	olivia.deck@pacelabs.com
Address	100 N Senate Avenue	Address	100 N Senate Avenue	Address	7726 Moller Road
Address 2	Office of Land Quality	Address 2	Office of Land Quality	Address 2	
City	Indianapolis	City	Indianapolis	City	Indianapolis
State	IN Zip 46204	State	IN Zip 46204	State	IN Zip 46268
Phone	317-232-7166	Phone	317-232-7166	Phone	(317)228-3102

Info

Project Name LA2265-LA2270 **Due Date** 01/17/2023 **Profile** 5011-16 **Quote**

Project Manager Deck, Olivia **Return Date** **Carrier** Pace Courier **Location** IN

Trip Blanks

- [X] Include Trip Blanks

Bottle Labels

- [ ] Blank
- [X] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample ID/Matrix

Return Shipping Labels

- [ ] No Shipper
- [ ] With Shipper

COC Options

- [ ] Number of Blanks
- [X] Pre-Printed: 1

Misc

- [X] Sampling Instructions
- [X] Custody Seal
- [X] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
7	WT	IN VOC by 8260	3-40mL clear vials, HCl	21	0	101722-3cyr	
1	WT	IN Trip Blank	3-40mL vials, HCl + DI Water	3	0	102422-3CYR	

Hazard Shipping Placard In Place : NO

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	01/12/2023
Prepared By:	DD
Verified By:	IBTM

Sample

4 samples + 1 Dup + 1 MS/MSD

PLEASE INCLUDE PROFILE 5011 ON COC WHEN SUBMITTING SAMPLES

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MVDA

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
3287445	3287445BLANK	95	107	95
3287446	3287446LCS	96	104	94
3287469	3287469MS	100	107	94
3287470	3287470MSD	100	106	94
50335726001	LA2265	96	108	95
50335726002	LA2266	97	106	96
50335726003	LA2267	95	105	95
50335726004	LA2268	95	106	95
50335726005	LA2269	95	105	94

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-124)
(DIBF) = Dibromofluoromethane (S)	(82-128)
(TOL8) = Toluene-d8 (S)	(73-122)

* Values outside of QC Limits

MSV - FORM II VOA-1

WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MVCB

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
3288022	3288022BLANK	99	108	97
3288023	3288023LCS	102	99	98

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-124)
(DIBF) = Dibromofluoromethane (S)	(82-128)
(TOL8) = Toluene-d8 (S)	(73-122)

* Values outside of QC Limits

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MV2A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
3289828	3289828BLANK	100	102	99
3289829	3289829LCS	101	103	100
50335726006	LA2270	100	101	99

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-124)
(DIBF) = Dibromofluoromethane (S)	(82-128)
(TOL8) = Toluene-d8 (S)	(73-122)

* Values outside of QC Limits

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 3289829LCS

Date Extracted: 01/27/2023

Date Analyzed (1): 01/27/2023

Instrument: 50MV2A

LCS Lot No: 336609

Lab File ID: A012723.B\A02LCS.D

SDG No.: 50335726

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	250	213	85	41-133
Acrolein	1000	1020	102	43-124
Acrylonitrile	250	258	103	66-131
Benzene	50.0	49.6	99	76-121
Bromobenzene	50.0	46.4	93	67-127
Bromochloromethane	50.0	49.8	100	65-126
Bromodichloromethane	50.0	56.1	112	72-125
Bromoform	50.0	45.8	92	57-134
Bromomethane	50.0	29.3	59	10-187
2-Butanone (MEK)	250	251	100	57-130
n-Butylbenzene	50.0	49.5	99	68-124
sec-Butylbenzene	50.0	49.5	99	76-125
tert-Butylbenzene	50.0	45.9	92	69-123
Carbon disulfide	50.0	47.8	96	59-125
Carbon tetrachloride	50.0	53.9	108	71-134
Chlorobenzene	50.0	49.3	99	74-119
Chloroethane	50.0	44.8	90	49-152
Chloroform	50.0	51.2	102	68-123
Chloromethane	50.0	42.2	84	33-133
2-Chlorotoluene	50.0	49.4	99	69-123
4-Chlorotoluene	50.0	50.7	101	74-122
Dibromochloromethane	50.0	54.6	109	69-127
1,2-Dibromoethane (EDB)	50.0	54.2	108	75-123
Dibromomethane	50.0	54.3	109	74-126
1,2-Dichlorobenzene	50.0	49.3	99	76-118
1,3-Dichlorobenzene	50.0	49.1	98	75-119
1,4-Dichlorobenzene	50.0	50.6	101	74-118
trans-1,4-Dichloro-2-butene	50.0	53.4	107	43-155
Dichlorodifluoromethane	50.0	23.3	47	19-136
1,1-Dichloroethane	50.0	52.1	104	71-124
1,2-Dichloroethane	50.0	50.2	100	68-126
1,1-Dichloroethene	50.0	51.3	103	63-138
cis-1,2-Dichloroethene	50.0	52.3	105	73-122
trans-1,2-Dichloroethene	50.0	51.9	104	69-124
1,2-Dichloropropane	50.0	50.6	101	73-127
1,3-Dichloropropane	50.0	49.8	100	77-125
2,2-Dichloropropane	50.0	58.2	116	52-137
1,1-Dichloropropene	50.0	55.5	111	80-142
cis-1,3-Dichloropropene	50.0	54.5	109	69-128
trans-1,3-Dichloropropene	50.0	53.9	108	66-125
Ethylbenzene	50.0	50.2	100	74-122
Ethyl methacrylate	50.0	52.6	105	65-127
Hexachloro-1,3-butadiene	50.0	51.4	103	65-140
n-Hexane	50.0	48.5	97	60-132
2-Hexanone	250	248	99	57-130
Iodomethane	50.0	52.0	104	10-181
Isopropylbenzene (Cumene)	50.0	49.5	99	75-124

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MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana

Lab Sample ID: 3289829LCS

Date Extracted: 01/27/2023

Date Analyzed (1): 01/27/2023

Instrument: 50MV2A

LCS Lot No: 336609

Lab File ID: A012723.B\A02LCS.D

SDG No.: 50335726

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
p-Isopropyltoluene	50.0	50.3	101	73-125
Methylene Chloride	50.0	43.6	87	71-125
4-Methyl-2-pentanone (MIBK)	250	231	92	58-134
Methyl-tert-butyl ether	50.0	52.7	105	71-125
Naphthalene	50.0	52.9	106	69-128
n-Propylbenzene	50.0	49.3	99	75-122
Styrene	50.0	50.9	102	74-126
1,1,1,2-Tetrachloroethane	50.0	53.4	107	77-125
1,1,2,2-Tetrachloroethane	50.0	52.5	105	72-123
Tetrachloroethene	50.0	51.5	103	74-129
Toluene	50.0	48.8	98	70-118
1,2,3-Trichlorobenzene	50.0	52.5	105	67-134
1,2,4-Trichlorobenzene	50.0	48.9	98	68-132
1,1,1-Trichloroethane	50.0	54.3	109	69-125
1,1,2-Trichloroethane	50.0	51.2	102	73-124
Trichloroethene	50.0	52.4	105	73-125
Trichlorofluoromethane	50.0	47.9	96	56-139
1,2,3-Trichloropropane	50.0	51.3	103	75-122
1,2,4-Trimethylbenzene	50.0	48.9	98	71-121
1,3,5-Trimethylbenzene	50.0	49.4	99	72-120
Vinyl acetate	200	219	110	46-101
Vinyl chloride	50.0	26.9	54	46-134
Xylene (Total)	150	150	100	71-123

Spike Recovery: 1 out of 70 outside limits.

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MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana | Lab Sample ID: 3287446LCS
Date Extracted: 01/23/2023 | Date Analyzed (1): 01/23/2023
Instrument: 50MVDA | LCS Lot No: 336256
Lab File ID: A012323.B\A03LCS.D | SDG No.: 50335726

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	250	204	82	41-133
Acrolein	1000	884	88	43-124
Acrylonitrile	250	223	89	66-131
Benzene	50.0	43.4	87	76-121
Bromobenzene	50.0	40.3	81	67-127
Bromochloromethane	50.0	42.2	84	65-126
Bromodichloromethane	50.0	47.3	95	72-125
Bromoform	50.0	50.1	100	57-134
Bromomethane	50.0	23.8	48	10-187
2-Butanone (MEK)	250	210	84	57-130
n-Butylbenzene	50.0	38.9	78	68-124
sec-Butylbenzene	50.0	40.5	81	76-125
tert-Butylbenzene	50.0	37.5	75	69-123
Carbon disulfide	50.0	44.7	89	59-125
Carbon tetrachloride	50.0	51.9	104	71-134
Chlorobenzene	50.0	44.9	90	74-119
Chloroethane	50.0	42.8	86	49-152
Chloroform	50.0	43.7	87	68-123
Chloromethane	50.0	42.1	84	33-133
2-Chlorotoluene	50.0	38.1	76	69-123
4-Chlorotoluene	50.0	43.7	87	74-122
Dibromochloromethane	50.0	49.7	99	69-127
1,2-Dibromoethane (EDB)	50.0	44.9	90	75-123
Dibromomethane	50.0	47.7	95	74-126
1,2-Dichlorobenzene	50.0	45.3	91	76-118
1,3-Dichlorobenzene	50.0	44.9	90	75-119
1,4-Dichlorobenzene	50.0	44.0	88	74-118
trans-1,4-Dichloro-2-butene	50.0	39.7	79	43-155
Dichlorodifluoromethane	50.0	19.1	38	19-136
1,1-Dichloroethane	50.0	42.0	84	71-124
1,2-Dichloroethane	50.0	43.7	87	68-126
1,1-Dichloroethene	50.0	44.4	89	63-138
cis-1,2-Dichloroethene	50.0	40.7	81	73-122
trans-1,2-Dichloroethene	50.0	41.1	82	69-124
1,2-Dichloropropane	50.0	41.5	83	73-127
1,3-Dichloropropane	50.0	40.9	82	77-125
2,2-Dichloropropane	50.0	46.6	93	52-137
1,1-Dichloropropene	50.0	45.6	91	80-142
cis-1,3-Dichloropropene	50.0	42.3	85	69-128
trans-1,3-Dichloropropene	50.0	40.9	82	66-125
Ethylbenzene	50.0	44.3	89	74-122
Ethyl methacrylate	50.0	39.2	78	65-127
Hexachloro-1,3-butadiene	50.0	52.5	105	65-140
n-Hexane	50.0	40.9	82	60-132
2-Hexanone	250	196	78	57-130
Iodomethane	50.0	72.1	144	10-181
Isopropylbenzene (Cumene)	50.0	43.3	87	75-124

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MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 3287446LCS
Date Extracted: 01/23/2023
Date Analyzed (1): 01/23/2023
Instrument: 50MVDA
LCS Lot No: 336256
Lab File ID: A012323.B\A03LCS.D
SDG No.: 50335726

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
p-Isopropyltoluene	50.0	42.6	85	73-125
Methylene Chloride	50.0	45.3	91	71-125
4-Methyl-2-pentanone (MIBK)	250	199	80	58-134
Methyl-tert-butyl ether	50.0	42.6	85	71-125
Naphthalene	50.0	42.6	85	69-128
n-Propylbenzene	50.0	38.4	77	75-122
Styrene	50.0	44.2	88	74-126
1,1,1,2-Tetrachloroethane	50.0	48.3	97	77-125
1,1,2,2-Tetrachloroethane	50.0	37.0	74	72-123
Tetrachloroethene	50.0	50.4	101	74-129
Toluene	50.0	40.2	80	70-118
1,2,3-Trichlorobenzene	50.0	47.4	95	67-134
1,2,4-Trichlorobenzene	50.0	45.8	92	68-132
1,1,1-Trichloroethane	50.0	47.6	95	69-125
1,1,2-Trichloroethane	50.0	41.0	82	73-124
Trichloroethene	50.0	45.8	92	73-125
Trichlorofluoromethane	50.0	49.9	100	56-139
1,2,3-Trichloropropane	50.0	41.0	82	75-122
1,2,4-Trimethylbenzene	50.0	40.1	80	71-121
1,3,5-Trimethylbenzene	50.0	40.2	80	72-120
Vinyl acetate	200	182	91	46-101
Vinyl chloride	50.0	43.1	86	46-134
Xylene (Total)	150	133	89	71-123

Spike Recovery: 0 out of 70 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: 01/27/2023

Instrument: 50MV2A

Parent Sample ID: 50336153001

Matrix Spike - Sample No: 3289830MS

Date Analyzed (1): 01/27/2023

Lab File ID: A012723.B\A20.D

SDG No.: 50335726

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	<1.0	60.0	120	64-142
1,1,1-Trichloroethane	50.0	<1.0	65.1	130	60-143
1,1,2,2-Tetrachloroethane	50.0	<1.0	60.3	121	64-135
1,1,2-Trichloroethane	50.0	<1.0	59.0	118	66-137
1,1-Dichloroethane	50.0	<1.0	61.1	122	62-144
1,1-Dichloroethene	50.0	<1.0	66.0	132	55-158
1,1-Dichloropropene	50.0	<1.0	66.3	133	65-164
1,2,3-Trichlorobenzene	50.0	<1.0	55.5	111	35-149
1,2,3-Trichloropropane	50.0	<1.0	59.1	118	66-135
1,2,4-Trichlorobenzene	50.0	<1.0	52.2	104	27-149
1,2,4-Trimethylbenzene	50.0	<5.0	54.0	108	41-140
1,2-Dibromoethane (EDB)	50.0	<1.0	61.4	123	68-136
1,2-Dichlorobenzene	50.0	<1.0	56.3	113	47-140
1,2-Dichloroethane	50.0	<1.0	58.3	117	61-144
1,2-Dichloropropane	50.0	<1.0	59.2	118	67-141
1,3,5-Trimethylbenzene	50.0	<5.0	55.6	111	40-141
1,3-Dichlorobenzene	50.0	<1.0	54.3	109	39-142
1,3-Dichloropropane	50.0	<1.0	57.0	114	67-141
1,4-Dichlorobenzene	50.0	<1.0	55.6	111	39-140
2,2-Dichloropropane	50.0	<1.0	61.0	122	32-144
2-Butanone (MEK)	250	<20.0	281	113	49-149
2-Chlorotoluene	50.0	<1.0	55.7	111	37-144
2-Hexanone	250	<20.0	300	120	48-147
4-Chlorotoluene	50.0	<1.0	57.5	115	34-148
4-Methyl-2-pentanone (MIBK)	250	<20.0	280	112	50-152
Acetone	250	<20.0	242	97	23-157
Acrolein	1000	<20.0	1120	112	25-137
Acrylonitrile	250	<100	288	115	56-149
Benzene	50.0	<1.0	58.1	116	68-139
Bromobenzene	50.0	<1.0	53.2	106	49-142
Bromochloromethane	50.0	<1.0	56.5	113	58-143
Bromodichloromethane	50.0	<1.0	64.6	129	65-139
Bromoform	50.0	<1.0	51.7	103	51-139
Bromomethane	50.0	<5.0	24.5	49	10-189
Carbon disulfide	50.0	<5.0	56.5	113	45-143
Carbon tetrachloride	50.0	<1.0	64.4	129	61-153
Chlorobenzene	50.0	<1.0	56.6	113	57-137
Chloroethane	50.0	<5.0	56.3	113	41-183
Chloroform	50.0	<1.0	60.1	120	61-138
Chloromethane	50.0	<5.0	51.3	103	25-150
Dibromochloromethane	50.0	<1.0	60.9	122	61-139
Dibromomethane	50.0	<1.0	61.0	122	69-138
Dichlorodifluoromethane	50.0	<1.0	29.2	58	10-150
Ethyl methacrylate	50.0	<20.0	59.1	118	57-141
Ethylbenzene	50.0	<1.0	57.6	115	54-141
Hexachloro-1,3-butadiene	50.0	<1.0	54.8	110	10-173
Iodomethane	50.0	<5.0	55.0	110	10-184

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MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 3289830MS

Date Extracted: 01/27/2023

Date Analyzed (1): 01/27/2023

Instrument: 50MV2A

Lab File ID: A012723.B\A20.D

Parent Sample ID: 50336153001

SDG No.: 50335726

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Isopropylbenzene (Cumene)	50.0	<1.0	57.1	114	48-145
Methyl-tert-butyl ether	50.0	<4.0	60.3	121	62-143
Methylene Chloride	50.0	<5.0	50.7	101	59-141
Naphthalene	50.0	<1.0	57.5	115	56-136
Styrene	50.0	<1.0	58.5	117	51-146
Tetrachloroethene	50.0	<1.0	58.5	117	50-149
Toluene	50.0	<1.0	56.0	112	59-134
Trichloroethene	50.0	<1.0	60.9	122	55-147
Trichlorofluoromethane	50.0	<5.0	62.3	125	55-160
Vinyl acetate	200	<20.0	235	118	24-109
Vinyl chloride	50.0	<5.0	31.2	62	36-154
Xylene (Total)	150	<3.0	172	114	50-143
cis-1,2-Dichloroethene	50.0	<1.0	60.7	121	58-142
cis-1,3-Dichloropropene	50.0	<1.0	59.3	119	53-140
n-Butylbenzene	50.0	<1.0	54.3	109	19-150
n-Hexane	50.0	<5.0	51.8	104	44-145
n-Propylbenzene	50.0	<1.0	56.1	112	36-150
p-Isopropyltoluene	50.0	<1.0	54.6	109	28-152
sec-Butylbenzene	50.0	<1.0	55.3	111	36-151
tert-Butylbenzene	50.0	<1.0	51.2	102	42-142
trans-1,2-Dichloroethene	50.0	<1.0	60.9	122	57-141
trans-1,3-Dichloropropene	50.0	<1.0	58.9	118	51-136
trans-1,4-Dichloro-2-butene	50.0	<100	57.5	115	26-157

Spike Recovery: 1 out of 70 outside limits.

02/02/2023 6:30

MSV - FORM III VOA-3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A Matrix Spike Duplicate - Sample No: 3289831MSD

Lab File ID (2): A012723.B\A21.D Date Analyzed (2): 01/27/2023

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	68.0	136	13	0-20	64-142
1,1,1-Trichloroethane	50.0	73.2	146	12	0-20	60-143
1,1,2,2-Tetrachloroethane	50.0	70.3	141	15	0-20	64-135
1,1,2-Trichloroethane	50.0	67.1	134	13	0-20	66-137
1,1-Dichloroethane	50.0	67.1	134	9	0-20	62-144
1,1-Dichloroethene	50.0	74.8	150	12	0-20	55-158
1,1-Dichloropropene	50.0	74.4	149	12	0-20	65-164
1,2,3-Trichlorobenzene	50.0	64.2	128	14	0-20	35-149
1,2,3-Trichloropropane	50.0	65.8	132	11	0-20	66-135
1,2,4-Trichlorobenzene	50.0	58.2	116	11	0-20	27-149
1,2,4-Trimethylbenzene	50.0	61.4	123	13	0-20	41-140
1,2-Dibromoethane (EDB)	50.0	69.8	140	13	0-20	68-136
1,2-Dichlorobenzene	50.0	64.2	128	13	0-20	47-140
1,2-Dichloroethane	50.0	65.8	132	12	0-20	61-144
1,2-Dichloropropane	50.0	67.3	135	13	0-20	67-141
1,3,5-Trimethylbenzene	50.0	61.7	123	10	0-20	40-141
1,3-Dichlorobenzene	50.0	61.8	124	13	0-20	39-142
1,3-Dichloropropane	50.0	64.6	129	12	0-20	67-141
1,4-Dichlorobenzene	50.0	63.8	128	14	0-20	39-140
2,2-Dichloropropane	50.0	68.8	138	12	0-20	32-144
2-Butanone (MEK)	250	323	129	14	0-20	49-149
2-Chlorotoluene	50.0	63.0	126	12	0-20	37-144
2-Hexanone	250	342	137	13	0-20	48-147
4-Chlorotoluene	50.0	65.6	131	13	0-20	34-148
4-Methyl-2-pentanone (MIBK)	250	319	128	13	0-20	50-152
Acetone	250	284	114	16	0-20	23-157
Acrolein	1000	1260	126	12	0-20	25-137
Acrylonitrile	250	326	130	12	0-20	56-149
Benzene	50.0	65.6	131	12	0-20	68-139
Bromobenzene	50.0	61.5	123	14	0-20	49-142
Bromochloromethane	50.0	64.6	129	13	0-20	58-143
Bromodichloromethane	50.0	72.6	145	12	0-20	65-139
Bromoform	50.0	58.4	117	12	0-20	51-139
Bromomethane	50.0	27.1	54	10	0-20	10-189
Carbon disulfide	50.0	64.6	129	13	0-20	45-143
Carbon tetrachloride	50.0	72.7	145	12	0-20	61-153
Chlorobenzene	50.0	64.3	129	13	0-20	57-137
Chloroethane	50.0	64.2	128	13	0-20	41-183
Chloroform	50.0	68.1	136	13	0-20	61-138
Chloromethane	50.0	57.9	116	12	0-20	25-150
Dibromochloromethane	50.0	69.7	139	14	0-20	61-139
Dibromomethane	50.0	69.9	140	14	0-20	69-138
Dichlorodifluoromethane	50.0	31.8	64	8	0-20	10-150
Ethyl methacrylate	50.0	67.0	134	13	0-20	57-141
Ethylbenzene	50.0	65.5	131	13	0-20	54-141
Hexachloro-1,3-butadiene	50.0	60.0	120	9	0-20	10-173
Iodomethane	50.0	68.1	136	21	0-20	10-184
Isopropylbenzene (Cumene)	50.0	64.8	130	13	0-20	48-145
Methyl-tert-butyl ether	50.0	68.6	137	13	0-20	62-143

MSV - FORM III VOA-4

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV2A　　Matrix Spike Duplicate - Sample No: 3289831MSD

Lab File ID (2): A012723.B\A21.D　　Date Analyzed (2): 01/27/2023

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Methylene Chloride	50.0	57.0	114	12	0-20	59-141
Naphthalene	50.0	66.6	133	15	0-20	56-136
Styrene	50.0	65.3	131	11	0-20	51-146
Tetrachloroethene	50.0	66.3	133	13	0-20	50-149
Toluene	50.0	63.8	128	13	0-20	59-134
Trichloroethene	50.0	69.1	138	13	0-20	55-147
Trichlorofluoromethane	50.0	70.1	140	12	0-20	55-160
Vinyl acetate	200	267	133	13	0-20	24-109
Vinyl chloride	50.0	35.3	71	12	0-20	36-154
Xylene (Total)	150	193	128	12	0-20	50-143
cis-1,2-Dichloroethene	50.0	68.8	138	12	0-20	58-142
cis-1,3-Dichloropropene	50.0	68.2	136	14	0-20	53-140
n-Butylbenzene	50.0	60.3	121	10	0-20	19-150
n-Hexane	50.0	59.1	118	13	0-20	44-145
n-Propylbenzene	50.0	63.6	127	13	0-20	36-150
p-Isopropyltoluene	50.0	60.5	121	10	0-20	28-152
sec-Butylbenzene	50.0	61.9	124	11	0-20	36-151
tert-Butylbenzene	50.0	57.1	114	11	0-20	42-142
trans-1,2-Dichloroethene	50.0	68.3	137	11	0-20	57-141
trans-1,3-Dichloropropene	50.0	66.4	133	12	0-20	51-136
trans-1,4-Dichloro-2-butene	50.0	65.5	131		0-20	26-157

RPD: 1 out of 69 outside limits.

Spike Recovery: 6 out of 70 outside limits.

02/02/2023 6:30

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 3287469MS

Date Extracted: 01/23/2023

Date Analyzed (1): 01/23/2023

Instrument: 50MVDA

Lab File ID: A012323.B\A21.D

Parent Sample ID: LA2268

SDG No.: 50335726

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	48.6	97	64-142
1,1,1-Trichloroethane	50.0	ND	52.4	105	60-143
1,1,2,2-Tetrachloroethane	50.0	ND	38.2	76	64-135
1,1,2-Trichloroethane	50.0	ND	43.3	87	66-137
1,1-Dichloroethane	50.0	ND	46.9	94	62-144
1,1-Dichloroethene	50.0	5.5	51.0	91	55-158
1,1-Dichloropropene	50.0	ND	50.5	101	65-164
1,2,3-Trichlorobenzene	50.0	ND	45.9	92	35-149
1,2,3-Trichloropropane	50.0	ND	42.4	85	66-135
1,2,4-Trichlorobenzene	50.0	ND	44.4	89	27-149
1,2,4-Trimethylbenzene	50.0	ND	41.5	83	41-140
1,2-Dibromoethane (EDB)	50.0	ND	45.9	92	68-136
1,2-Dichlorobenzene	50.0	ND	46.8	94	47-140
1,2-Dichloroethane	50.0	ND	48.0	96	61-144
1,2-Dichloropropane	50.0	ND	44.6	89	67-141
1,3,5-Trimethylbenzene	50.0	ND	41.8	84	40-141
1,3-Dichlorobenzene	50.0	ND	45.6	91	39-142
1,3-Dichloropropane	50.0	ND	44.0	88	67-141
1,4-Dichlorobenzene	50.0	ND	44.5	89	39-140
2,2-Dichloropropane	50.0	ND	48.6	97	32-144
2-Butanone (MEK)	250	ND	212	85	49-149
2-Chlorotoluene	50.0	ND	40.2	80	37-144
2-Hexanone	250	ND	199	80	48-147
4-Chlorotoluene	50.0	ND	44.9	90	34-148
4-Methyl-2-pentanone (MIBK)	250	ND	205	82	50-152
Acetone	250	ND	193	77	23-157
Acrolein	1000	ND	851	85	25-137
Acrylonitrile	250	ND	222	89	56-149
Benzene	50.0	ND	46.4	93	68-139
Bromobenzene	50.0	ND	43.7	87	49-142
Bromochloromethane	50.0	ND	46.9	94	58-143
Bromodichloromethane	50.0	ND	49.9	100	65-139
Bromoform	50.0	ND	47.4	95	51-139
Bromomethane	50.0	ND	40.7	81	10-189
Carbon disulfide	50.0	ND	44.6	89	45-143
Carbon tetrachloride	50.0	ND	56.6	113	61-153
Chlorobenzene	50.0	ND	46.6	93	57-137
Chloroethane	50.0	ND	45.8	92	41-183
Chloroform	50.0	ND	46.9	94	61-138
Chloromethane	50.0	ND	40.6	81	25-150
Dibromochloromethane	50.0	ND	50.8	102	61-139
Dibromomethane	50.0	ND	49.7	99	69-138
Dichlorodifluoromethane	50.0	ND	16.3	33	10-150
Ethyl methacrylate	50.0	ND	41.2	82	57-141
Ethylbenzene	50.0	ND	45.8	92	54-141
Hexachloro-1,3-butadiene	50.0	ND	48.8	98	10-173
Iodomethane	50.0	ND	66.3	133	10-184

02/02/2023 6:30

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Date Extracted: 01/23/2023

Instrument: 50MVDA

Parent Sample ID: LA2268

Matrix Spike - Sample No: 3287469MS

Date Analyzed (1): 01/23/2023

Lab File ID: A012323.B\A21.D

SDG No.: 50335726

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Isopropylbenzene (Cumene)	50.0	ND	47.2	94	48-145
Methyl-tert-butyl ether	50.0	ND	45.4	91	62-143
Methylene Chloride	50.0	ND	46.0	92	59-141
Naphthalene	50.0	ND	42.7	85	56-136
Styrene	50.0	ND	45.4	91	51-146
Tetrachloroethene	50.0	ND	52.0	104	50-149
Toluene	50.0	ND	42.6	85	59-134
Trichloroethene	50.0	ND	50.3	99	55-147
Trichlorofluoromethane	50.0	ND	47.8	96	55-160
Vinyl acetate	200	ND	183	92	24-109
Vinyl chloride	50.0	53.0	93.8	82	36-154
Xylene (Total)	150	ND	139	93	50-143
cis-1,2-Dichloroethene	50.0	1270	1230	-88	58-142
cis-1,3-Dichloropropene	50.0	ND	43.7	87	53-140
n-Butylbenzene	50.0	ND	39.4	79	19-150
n-Hexane	50.0	ND	36.8	74	44-145
n-Propylbenzene	50.0	ND	40.5	81	36-150
p-Isopropyltoluene	50.0	ND	43.4	87	28-152
sec-Butylbenzene	50.0	ND	43.0	86	36-151
tert-Butylbenzene	50.0	ND	39.0	78	42-142
trans-1,2-Dichloroethene	50.0	12.0	53.5	83	57-141
trans-1,3-Dichloropropene	50.0	ND	42.7	85	51-136
trans-1,4-Dichloro-2-butene	50.0	ND	40.3	81	26-157

Spike Recovery: 1 out of 70 outside limits.

02/02/2023 6:30

MSV - FORM III VOA-3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MVDA Matrix Spike Duplicate - Sample No: 3287470MSD

Lab File ID (2): A012323.B\A22.D Date Analyzed (2): 01/23/2023

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	52.8	106	8	0-20	64-142
1,1,1-Trichloroethane	50.0	55.3	111	5	0-20	60-143
1,1,2,2-Tetrachloroethane	50.0	40.5	81	6	0-20	64-135
1,1,2-Trichloroethane	50.0	45.3	91	4	0-20	66-137
1,1-Dichloroethane	50.0	50.1	100	7	0-20	62-144
1,1-Dichloroethene	50.0	54.7	98	7	0-20	55-158
1,1-Dichloropropene	50.0	52.7	105	4	0-20	65-164
1,2,3-Trichlorobenzene	50.0	48.9	98	6	0-20	35-149
1,2,3-Trichloropropane	50.0	45.0	90	6	0-20	66-135
1,2,4-Trichlorobenzene	50.0	45.3	91	2	0-20	27-149
1,2,4-Trimethylbenzene	50.0	43.1	86	4	0-20	41-140
1,2-Dibromoethane (EDB)	50.0	48.1	96	5	0-20	68-136
1,2-Dichlorobenzene	50.0	49.3	99	5	0-20	47-140
1,2-Dichloroethane	50.0	51.5	103	7	0-20	61-144
1,2-Dichloropropane	50.0	47.7	95	7	0-20	67-141
1,3,5-Trimethylbenzene	50.0	42.8	86	2	0-20	40-141
1,3-Dichlorobenzene	50.0	46.8	94	2	0-20	39-142
1,3-Dichloropropane	50.0	46.0	92	5	0-20	67-141
1,4-Dichlorobenzene	50.0	46.6	93	5	0-20	39-140
2,2-Dichloropropane	50.0	50.4	101	4	0-20	32-144
2-Butanone (MEK)	250	227	91	7	0-20	49-149
2-Chlorotoluene	50.0	41.3	83	3	0-20	37-144
2-Hexanone	250	212	85	7	0-20	48-147
4-Chlorotoluene	50.0	46.7	93	4	0-20	34-148
4-Methyl-2-pentanone (MIBK)	250	218	87	6	0-20	50-152
Acetone	250	211	84	9	0-20	23-157
Acrolein	1000	899	90	5	0-20	25-137
Acrylonitrile	250	238	95	7	0-20	56-149
Benzene	50.0	48.4	97	4	0-20	68-139
Bromobenzene	50.0	45.8	92	5	0-20	49-142
Bromochloromethane	50.0	48.7	97	4	0-20	58-143
Bromodichloromethane	50.0	53.4	107	7	0-20	65-139
Bromoform	50.0	50.7	101	7	0-20	51-139
Bromomethane	50.0	25.8	52	45	0-20	10-189
Carbon disulfide	50.0	46.9	94	5	0-20	45-143
Carbon tetrachloride	50.0	59.8	120	6	0-20	61-153
Chlorobenzene	50.0	49.3	99	5	0-20	57-137
Chloroethane	50.0	47.4	95	3	0-20	41-183
Chloroform	50.0	49.7	99	6	0-20	61-138
Chloromethane	50.0	42.3	85	4	0-20	25-150
Dibromochloromethane	50.0	54.0	108	6	0-20	61-139
Dibromomethane	50.0	52.9	106	6	0-20	69-138
Dichlorodifluoromethane	50.0	16.5	33	2	0-20	10-150
Ethyl methacrylate	50.0	43.8	88	6	0-20	57-141
Ethylbenzene	50.0	48.6	97	6	0-20	54-141
Hexachloro-1,3-butadiene	50.0	51.2	102	5	0-20	10-173
Iodomethane	50.0	76.1	152	14	0-20	10-184
Isopropylbenzene (Cumene)	50.0	48.5	97	3	0-20	48-145
Methyl-tert-butyl ether	50.0	49.4	99	9	0-20	62-143

MSV - FORM III VOA-4

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MVDA Matrix Spike Duplicate - Sample No: 3287470MSD

Lab File ID (2): A012323.B\A22.D Date Analyzed (2): 01/23/2023

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Methylene Chloride	50.0	49.8	100	8	0-20	59-141
Naphthalene	50.0	46.4	93	8	0-20	56-136
Styrene	50.0	48.2	96	6	0-20	51-146
Tetrachloroethene	50.0	54.0	108	4	0-20	50-149
Toluene	50.0	44.8	89	5	0-20	59-134
Trichloroethene	50.0	52.0	102	3	0-20	55-147
Trichlorofluoromethane	50.0	51.6	103	8	0-20	55-160
Vinyl acetate	200	187	93	2	0-20	24-109
Vinyl chloride	50.0	95.7	86	2	0-20	36-154
Xylene (Total)	150	147	98	5	0-20	50-143
cis-1,2-Dichloroethene	50.0	1230	-80	0	0-20	58-142
cis-1,3-Dichloropropene	50.0	46.7	93	7	0-20	53-140
n-Butylbenzene	50.0	38.7	77	2	0-20	19-150
n-Hexane	50.0	36.7	73	0	0-20	44-145
n-Propylbenzene	50.0	40.7	81	0	0-20	36-150
p-Isopropyltoluene	50.0	44.2	88	2	0-20	28-152
sec-Butylbenzene	50.0	43.4	87	1	0-20	36-151
tert-Butylbenzene	50.0	40.4	81	3	0-20	42-142
trans-1,2-Dichloroethene	50.0	58.7	93	9	0-20	57-141
trans-1,3-Dichloropropene	50.0	45.0	90	5	0-20	51-136
trans-1,4-Dichloro-2-butene	50.0	42.9	86		0-20	26-157

RPD: 1 out of 69 outside limits.

Spike Recovery: 1 out of 70 outside limits.

02/02/2023 6:30

SAMPLE NO.

3287445BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MVDA Matrix: Water Lab Sample ID: 3287445

Lab File ID: A012323.B\A05MB.D Date Analyzed: 01/23/2023 Time:12:29

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3287446LCS	3287446	A012323.B\A03LCS.D	01/23/2023 11:36
LA2265	50335726001	A012323.B\A11.D	01/23/2023 15:09
LA2266	50335726002	A012323.B\A12.D	01/23/2023 15:36
LA2267	50335726003	A012323.B\A13.D	01/23/2023 16:03
LA2269	50335726005	A012323.B\A14.D	01/23/2023 16:29
LA2268	50335726004	A012323.B\A20.D	01/23/2023 19:10
3287469MS	3287469	A012323.B\A21.D	01/23/2023 19:36
3287470MSD	3287470	A012323.B\A22.D	01/23/2023 20:03

SAMPLE NO.

3288022BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MVCB Matrix: Water Lab Sample ID: 3288022

Lab File ID: B012423.B\B04MBW.D Date Analyzed: 01/24/2023 Time: 14:36

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3288023LCS	3288023	B012423.B\B02LCSW.D	01/24/2023 13:31

SAMPLE NO.

3289828BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Instrument ID: 50MV2A Matrix: Water Lab Sample ID: 3289828

Lab File ID: A012723.B\A04MB.D Date Analyzed: 01/27/2023 Time:12:33

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3289829LCS	3289829	A012723.B\A02LCS.D	01/27/2023 11:35
LA2270	50335726006	A012723.B\A05.D	01/27/2023 13:02

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: A012423CAL.B\A00BFB.D BFB Injection Date 01/24/2023

Instrument ID: 50MV2A BFB Injection Time 11:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	15.99	
75	30.00 - 60.00% of mass 95	47.42	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.66	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	99.04	
175	5.00 - 9.00% of mass 174	7.70	(7.77)[1]
176	95.00 - 101.00% of mass 174	97.05	(97.99)[1]
177	5.00 - 9.00% of mass 176	6.41	(6.61)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22361845CAL1	22361845CAL1	A012423CAL.B\A05CAL1.D	01/24/2023	14:21
22361846CAL2	22361846CAL2	A012423CAL.B\A06CAL2.D	01/24/2023	14:50
22361847CAL3	22361847CAL3	A012423CAL.B\A07CAL3.D	01/24/2023	15:19
22361848CAL4	22361848CAL4	A012423CAL.B\A08CAL4.D	01/24/2023	15:48
22361849CAL5	22361849CAL5	A012423CAL.B\A09CAL5.D	01/24/2023	16:17
22361850CAL6	22361850CAL6	A012423CAL.B\A10CAL6.D	01/24/2023	16:47
22361851CAL7	22361851CAL7	A012423CAL.B\A11CAL7.D	01/24/2023	17:16
22361852CAL8	22361852CAL8	A012423CAL.B\A12CAL8.D	01/24/2023	17:45
22361853CAL9	22361853CAL9	A012423CAL.B\A13CAL9.D	01/24/2023	18:14

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: A012623.B\A00BFB.D BFB Injection Date 01/26/2023

Instrument ID: 50MV2A BFB Injection Time 08:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.90	
75	30.00 - 60.00% of mass 95	49.16	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.82	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	77.20	
175	5.00 - 9.00% of mass 174	5.92	(7.67)[1]
176	95.00 - 101.00% of mass 174	75.39	(97.66)[1]
177	5.00 - 9.00% of mass 176	5.17	(6.85)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22362819ICV	22362819ICV	A012423CAL.B\A01ICV-RR.D	01/26/2023	09:06

02/02/2023 6:40

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: A012723.B\A00BFB.D BFB Injection Date 01/27/2023

Instrument ID: 50MV2A BFB Injection Time 10:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	16.29	
75	30.00 - 60.00% of mass 95	48.35	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.76	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	91.60	
175	5.00 - 9.00% of mass 174	6.82	(7.45)[1]
176	95.00 - 101.00% of mass 174	88.58	(96.70)[1]
177	5.00 - 9.00% of mass 176	5.93	(6.70)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22361875CCV	22361875CCV	A012723.B\A01CCV.D	01/27/2023	11:06
3289829LCS	3289829LCS	A012723.B\A02LCS.D	01/27/2023	11:35
3289828BLANK	3289828BLANK	A012723.B\A04MB.D	01/27/2023	12:33
LA2270	50335726006	A012723.B\A05.D	01/27/2023	13:02

02/02/2023 6:40

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: B011623CAL.B\B00BFB.D BFB Injection Date 01/16/2023

Instrument ID: 50MVCB BFB Injection Time 13:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	15.12	
75	30.00 - 60.00% of mass 95	46.09	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.67	
173	Less than 2.00% of mass 174	0.50	(0.73)[1]
174	50.00 - 100.00% of mass 95	69.25	
175	5.00 - 9.00% of mass 174	4.91	(7.09)[1]
176	95.00 - 101.00% of mass 174	67.93	(98.10)[1]
177	5.00 - 9.00% of mass 176	4.76	(7.00)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22358093CAL1	22358093CAL1	B011623CAL.B\B01.D	01/16/2023	14:21
22358094CAL2	22358094CAL2	B011623CAL.B\B02.D	01/16/2023	14:54
22358095CAL3	22358095CAL3	B011623CAL.B\B03.D	01/16/2023	15:26
22358096CAL4	22358096CAL4	B011623CAL.B\B04.D	01/16/2023	15:59
22358097CAL5	22358097CAL5	B011623CAL.B\B05.D	01/16/2023	16:31
22358098CAL6	22358098CAL6	B011623CAL.B\B06.D	01/16/2023	17:04
22358099CAL7	22358099CAL7	B011623CAL.B\B07.D	01/16/2023	17:36
22358100CAL8	22358100CAL8	B011623CAL.B\B08.D	01/16/2023	18:09
22358101CAL9	22358101CAL9	B011623CAL.B\B09.D	01/16/2023	18:42
22358102ICV	22358102ICV	B011623CAL.B\B11ICV.D	01/16/2023	19:47

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: B012423.B\B01BFB.D BFB Injection Date 01/24/2023

Instrument ID: 50MVCB BFB Injection Time 12:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	15.07	
75	30.00 - 60.00% of mass 95	44.19	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	7.06	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	64.60	
175	5.00 - 9.00% of mass 174	5.27	(8.16)[1]
176	95.00 - 101.00% of mass 174	61.50	(95.19)[1]
177	5.00 - 9.00% of mass 176	4.27	(6.95)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
3288023LCS	3288023LCS	B012423.B\B02LCSW.D	01/24/2023	13:31
22377365CCV	22377365CCV	B012423.B\B02CCV.D	01/24/2023	13:31
3288022BLANK	3288022BLANK	B012423.B\B04MBW.D	01/24/2023	14:36
LA2265	50335726001	B012423.B\B06.D	01/24/2023	15:41
LA2266	50335726002	B012423.B\B07.D	01/24/2023	16:14
LA2267	50335726003	B012423.B\B08.D	01/24/2023	16:46
LA2268	50335726004	B012423.B\B09.D	01/24/2023	17:19
LA2269	50335726005	B012423.B\B10.D	01/24/2023	17:52

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: A011923CAL.B\A00BFB.D BFB Injection Date 01/19/2023

Instrument ID: 50MVDA BFB Injection Time 11:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	20.54	
75	30.00 - 60.00% of mass 95	48.84	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.38	
173	Less than 2.00% of mass 174	0.96	(1.13)1
174	50.00 - 100.00% of mass 95	85.01	
175	5.00 - 9.00% of mass 174	6.50	(7.65)1
176	95.00 - 101.00% of mass 174	81.84	(96.27)1
177	5.00 - 9.00% of mass 176	5.40	(6.60)2

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22373238CAL1	22373238CAL1	A011923CAL.B\A04.D	01/19/2023	14:47
22373239CAL2	22373239CAL2	A011923CAL.B\A05.D	01/19/2023	15:17
22373240CAL3	22373240CAL3	A011923CAL.B\A06.D	01/19/2023	15:46
22373241CAL4	22373241CAL4	A011923CAL.B\A07.D	01/19/2023	16:16
22373242CAL5	22373242CAL5	A011923CAL.B\A08.D	01/19/2023	16:45
22373243CAL7	22373243CAL7	A011923CAL.B\A10.D	01/19/2023	17:44
22373244CAL8	22373244CAL8	A011923CAL.B\A11.D	01/19/2023	18:13
22373245CAL9	22373245CAL9	A011923CAL.B\A12.D	01/19/2023	18:43
22373272ICV	22373272ICV	A011923CAL.B\A14ICV.D	01/19/2023	19:42

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana   SDG No.: 50335726   Contract: LA2265-LA2270

Lab File ID: A011923CAL.B\E00BFB.D   BFB Injection Date: 01/20/2023

Instrument ID: 50MVDA   BFB Injection Time: 13:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	19.26	
75	30.00 - 60.00% of mass 95	47.44	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.90	
173	Less than 2.00% of mass 174	1.12	(1.12)[1]
174	50.00 - 100.00% of mass 95	99.84	
175	5.00 - 9.00% of mass 174	7.43	(7.44)[1]
176	95.00 - 101.00% of mass 174	97.46	(97.62)[1]
177	5.00 - 9.00% of mass 176	6.33	(6.50)[2]

1 - Value is % mass 174   2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22373246CAL6	22373246CAL6	A011923CAL.B\E01.D	01/20/2023	14:03

02/02/2023 6:40

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Lab File ID: A012323.B\A01BFB.D BFB Injection Date: 01/23/2023

Instrument ID: 50MVDA BFB Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	19.16	
75	30.00 - 60.00% of mass 95	48.51	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.65	
173	Less than 2.00% of mass 174	1.01	(1.04)[1]
174	50.00 - 100.00% of mass 95	97.97	
175	5.00 - 9.00% of mass 174	7.07	(7.21)[1]
176	95.00 - 101.00% of mass 174	93.60	(95.54)[1]
177	5.00 - 9.00% of mass 176	5.98	(6.39)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22334993CCV	22334993CCV	A012323.B\A02CCV.D	01/23/2023	11:09
3287446LCS	3287446LCS	A012323.B\A03LCS.D	01/23/2023	11:36
3287445BLANK	3287445BLANK	A012323.B\A05MB.D	01/23/2023	12:29
LA2265	50335726001	A012323.B\A11.D	01/23/2023	15:09
LA2266	50335726002	A012323.B\A12.D	01/23/2023	15:36
LA2267	50335726003	A012323.B\A13.D	01/23/2023	16:03
LA2269	50335726005	A012323.B\A14.D	01/23/2023	16:29
LA2268	50335726004	A012323.B\A20.D	01/23/2023	19:10
3287469MS	3287469MS	A012323.B\A21.D	01/23/2023	19:36
3287470MSD	3287470MSD	A012323.B\A22.D	01/23/2023	20:03

MSV - FORM VIII VOA-1

MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50335726 Contract: LA2265-LA2270

Sample ID : 22361875CCV Date Analyzed: 01/27/2023

Instrument ID: 50MV2A GC Column: Col 1 Time Analyzed: 11:06

Lab File ID: A012723.B\A01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		163464	7.307	88754	8.61	205702	4.406
UPPER LIMIT		326928	7.807	177508	9.11	411404	4.906
LOWER LIMIT		81732	6.807	44377	8.11	102851	3.906
LAB SAMPLE ID	SAMPLE NO.						
3289828	3289828BLANK	156526	7.306	83448	8.61	199789	4.405
3289829	3289829LCS	160698	7.306	88185	8.61	205124	4.405
50335726006	LA2270	152992	7.307	81689	8.61	195055	4.406

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.: 50335726 Contract: LA2265-LA2270

Sample ID : 22377365CCV Date Analyzed: 01/24/2023

Instrument ID: 50MVCB GC Column: Col 1 Time Analyzed: 13:31

Lab File ID: B012423.B\B02CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		174806	7.629	95211	8.875	205705	4.978
UPPER LIMIT		349612	8.129	190422	9.375	411410	5.478
LOWER LIMIT		87403	7.129	47605.5	8.375	102852.5	4.478
LAB SAMPLE ID	SAMPLE NO.						
3288022	3288022BLANK	150728	7.629	83219	8.875	185190	4.985
3288023	3288023LCS	174806	7.629	95211	8.875	205705	4.978
50335726001	LA2265	169327	7.636	80064	8.875	185367	4.985
50335726002	LA2266	142561	7.636	91569	8.875	201728	4.985
50335726003	LA2267	152165	7.636	91764	8.875	202305	4.985
50335726004	LA2268	131641	7.636	80185	8.875	162972	4.986
50335726005	LA2269	162879	7.636	86830	8.875	210979	4.985

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.: 50335726 Contract: LA2265-LA2270

Sample ID : 22334993CCV Date Analyzed: 01/23/2023

Instrument ID: 50MVDA GC Column: Col 1 Time Analyzed: 11:09

Lab File ID: A012323.B\A02CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		391819	7.729	205162	8.997	499399	5.107
UPPER LIMIT		783638	8.229	410324	9.497	998798	5.607
LOWER LIMIT		195909.5	7.229	102581	8.497	249699.5	4.607
LAB SAMPLE ID	SAMPLE NO.						
3287445	3287445BLANK	370109	7.729	178991	8.997	486530	5.107
3287446	3287446LCS	402885	7.729	208454	8.997	520065	5.107
3287469	3287469MS	320231	7.729	169032	8.997	409495	5.107
3287470	3287470MSD	325905	7.729	173794	8.997	414775	5.107
50335726001	LA2265	323975	7.729	149742	8.997	425917	5.107
50335726002	LA2266	311751	7.729	145769	8.997	416360	5.107
50335726003	LA2267	314333	7.729	145811	8.997	418246	5.107
50335726004	LA2268	294287	7.729	137766	8.997	390873	5.107
50335726005	LA2269	319368	7.729	144524	8.997	419442	5.114

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.

LA2265

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/24/2023 15:41

Lab Sample ID: 50335726001

Date Analyzed: 01/24/2023 15:41

Lab File ID: B012423.B\B06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10

Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	586	

02/02/2023 6:30

SAMPLE NO.

LA2265

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/24/2023 15:41
Lab Sample ID: 50335726001
Date Analyzed: 01/24/2023 15:41
Lab File ID: B012423.B\B06.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10
Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	4.591	470	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b06.d
Lab Smp Id: 50335726001
Inj Date : 24-JAN-2023 15:41
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 50335726001x10
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	458	0.38951	3.90	
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	76287	58.5738	586	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	43390	51.5307	51.5	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.985	4.978	(1.000)	185367	50.0000	(Q)	
	48 Trichloroethene	95	Compound Not Detected.						
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.589	6.590	(0.863)	215858	49.1643	49.2	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	169327	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.302	(1.087)	80801	50.6636	50.7	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.875	(1.000)	80064	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b06.d

Date : 24-JAN-2023 15:41

Client ID:

Instrument: 50mvcb.i

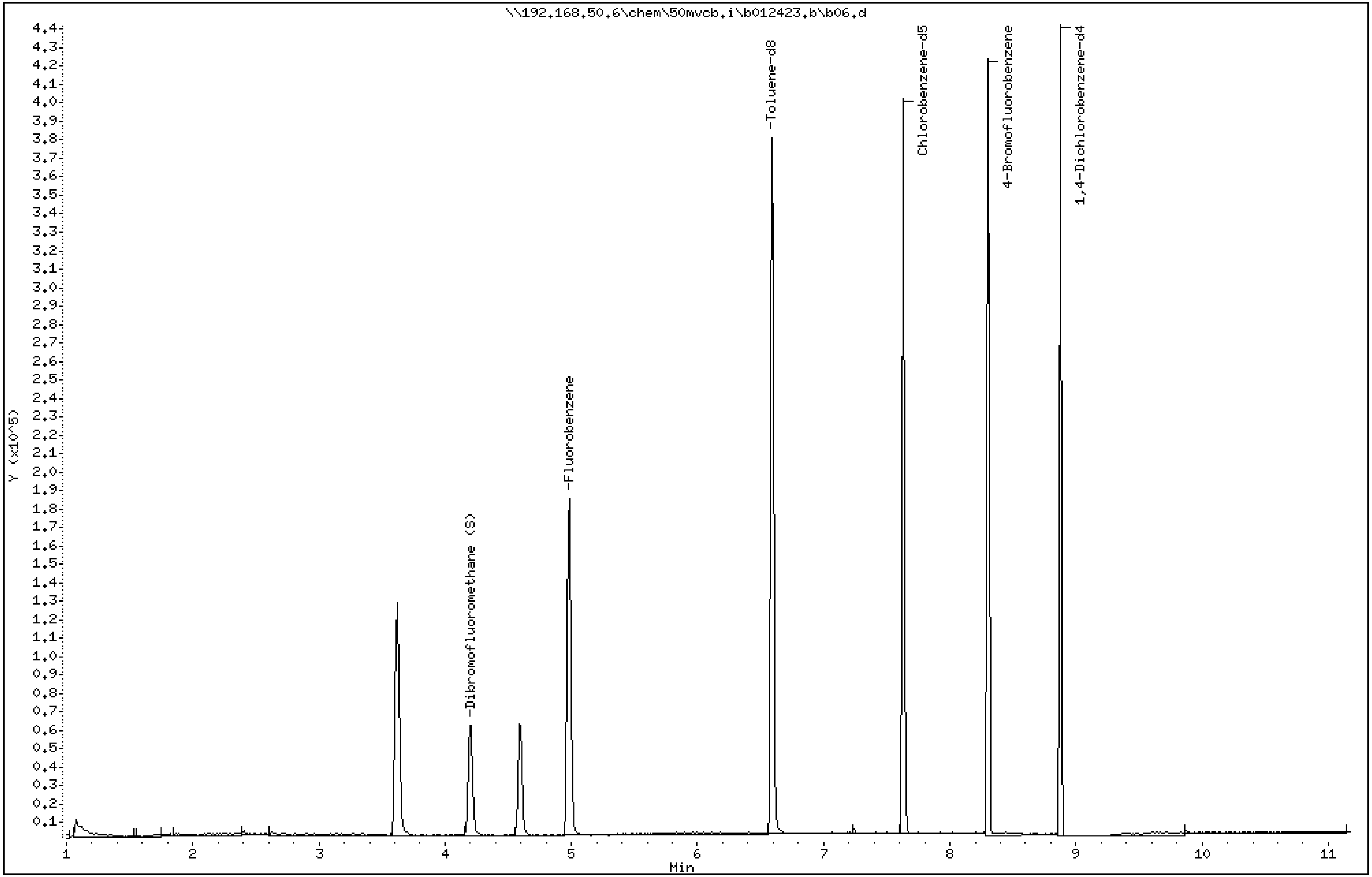
Sample Info: 50335726001x10

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b06.d Page 5

Date : 24-JAN-2023 15:41

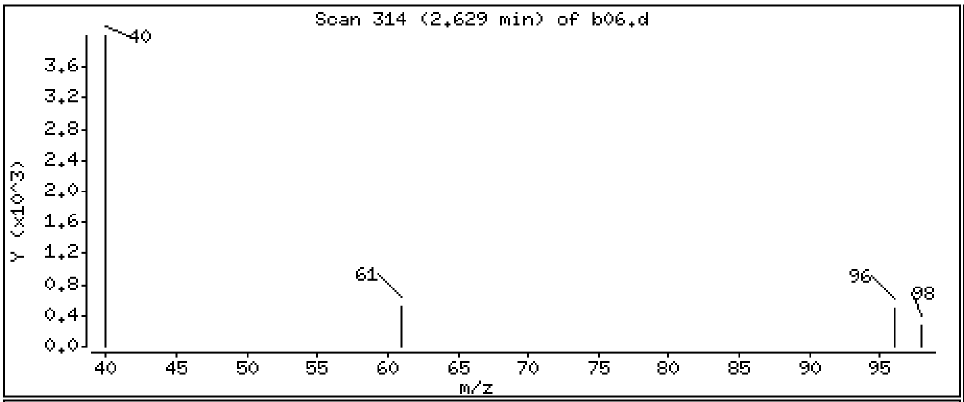
Client ID: Instrument: 50mvcb.i

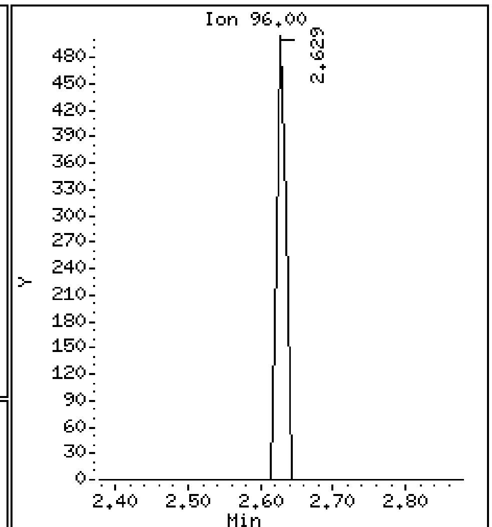
Sample Info: 50335726001x10

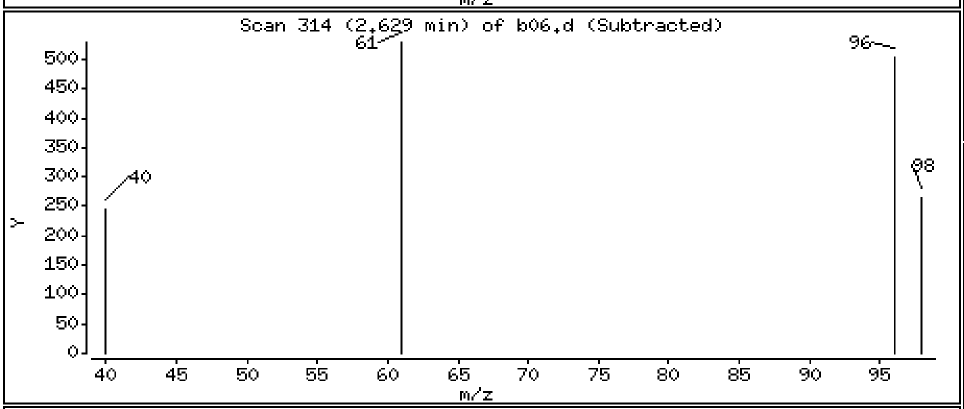
Purge Volume: 5.0 Operator: tkg

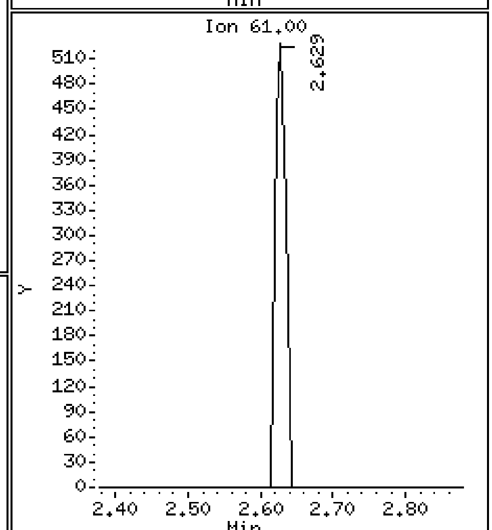
Column phase: DB-624 Column diameter: 0.18

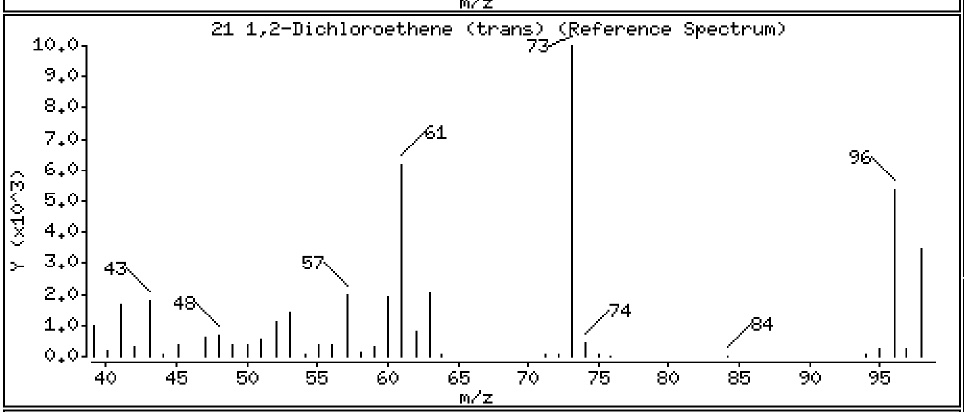
21 1,2-Dichloroethene (trans) Concentration: 3.90 ppb Review Code:

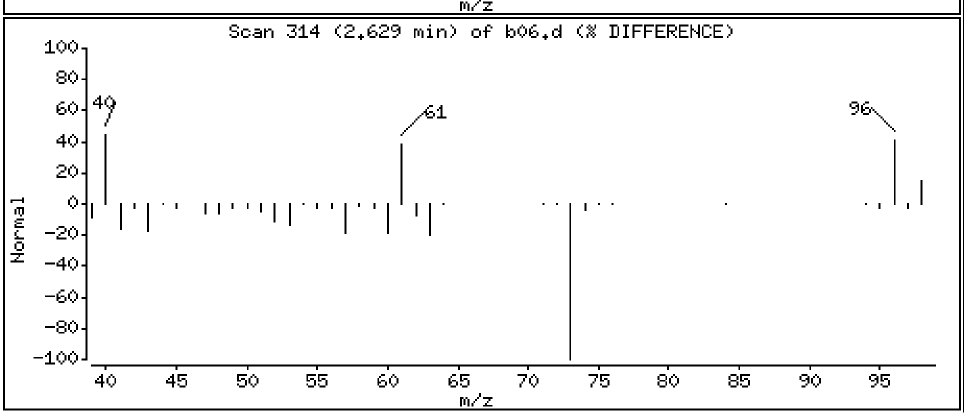


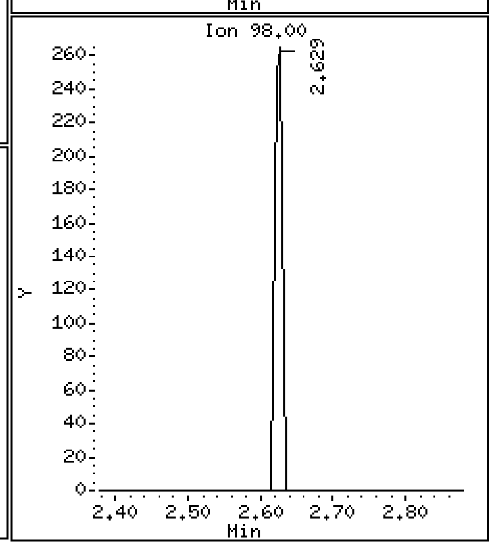












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b06.d

Date : 24-JAN-2023 15:41

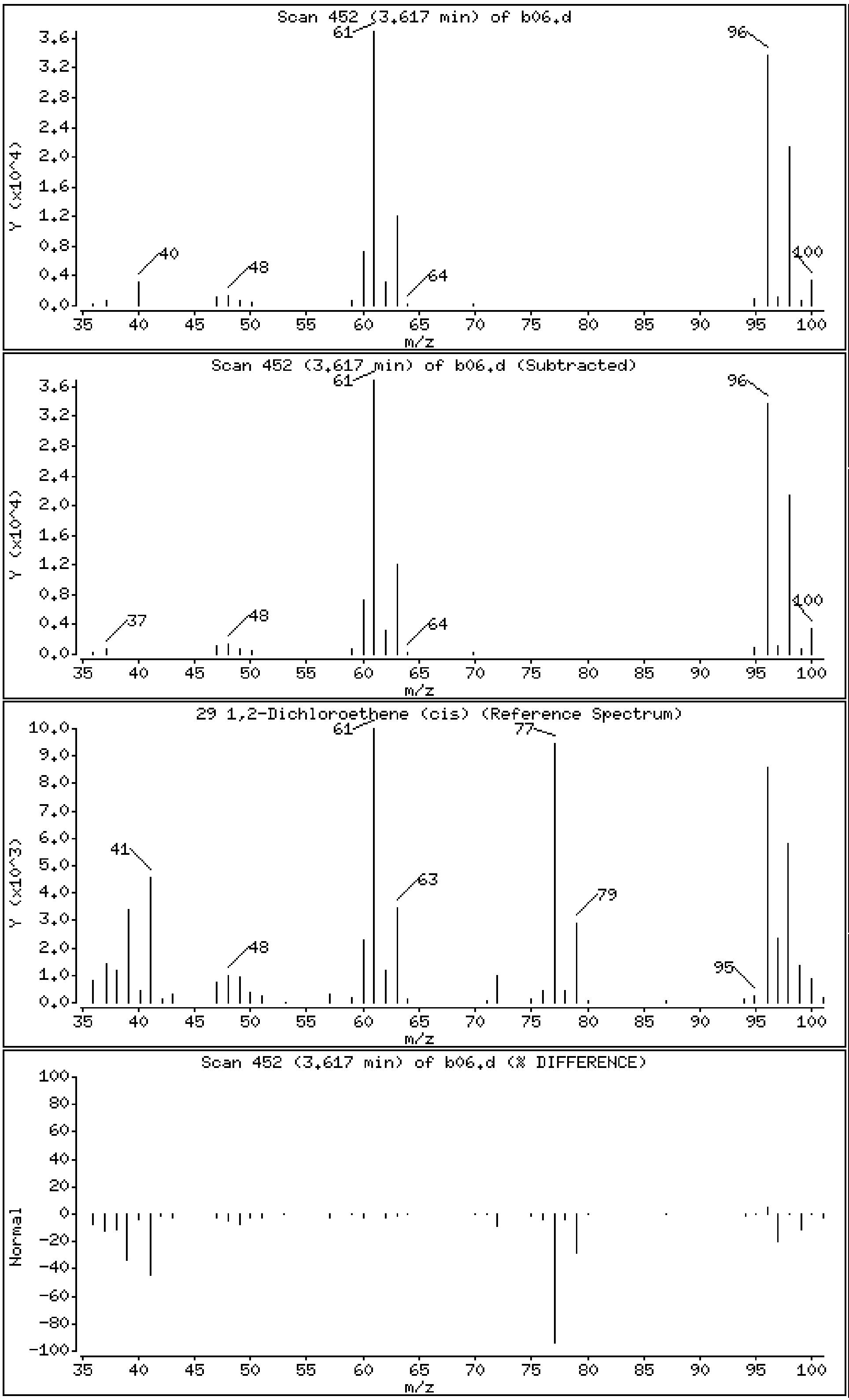
Client ID: Instrument: 50mvcb.i

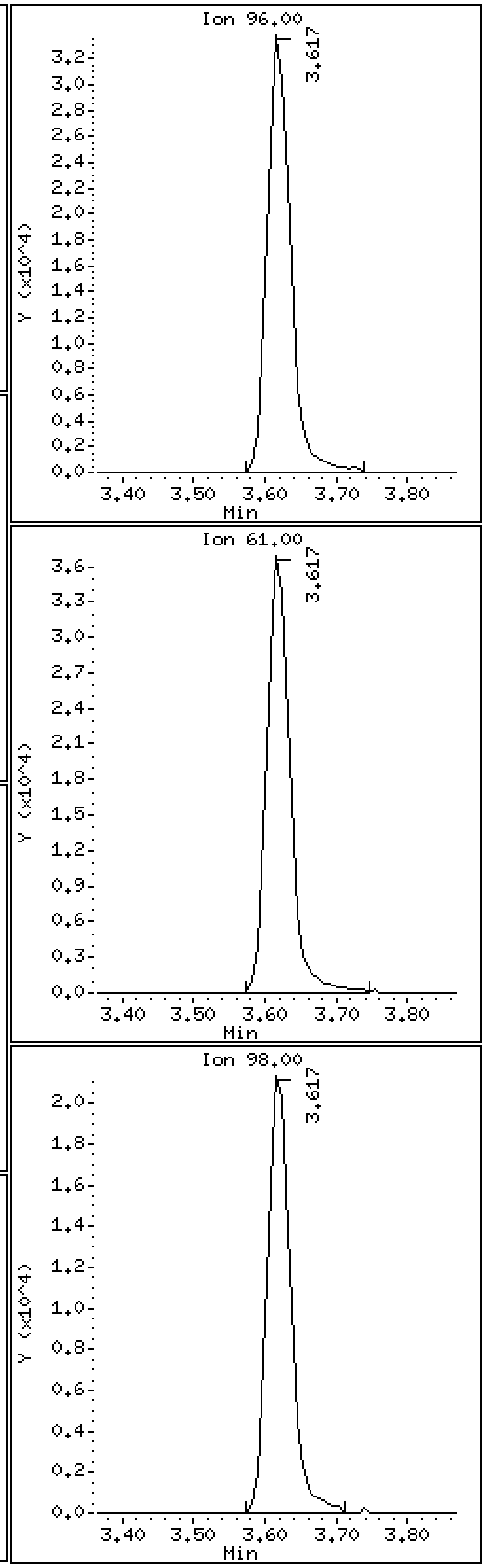
Sample Info: 50335726001x10

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

29 1,2-Dichloroethene (cis) Concentration: 586 ppb Review Code:





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Date : 24-JAN-2023 15:41

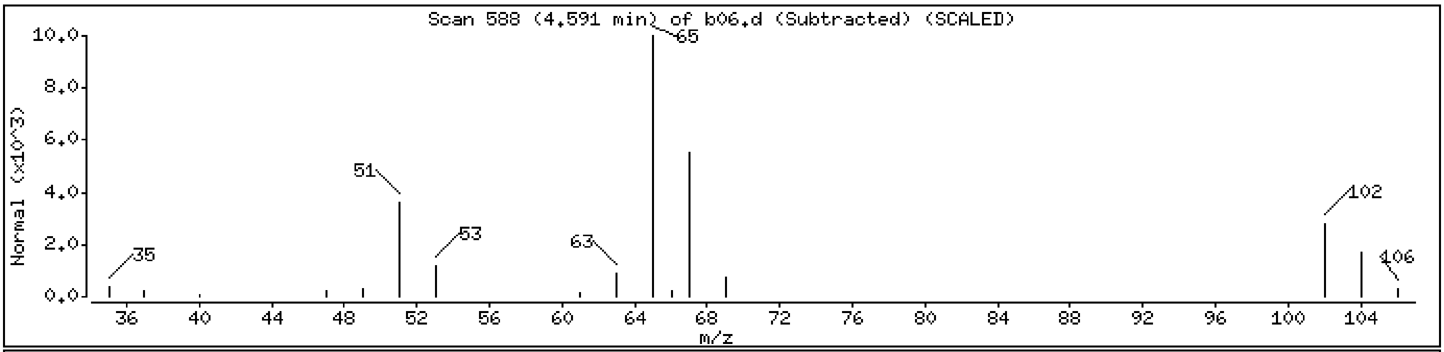
Client ID: Instrument: 50mvcb.i

Sample Info: 50335726001x10

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b/b06.d
Injection Date: 24-JAN-2023 15:41
Instrument: 50mvcb.i
Lab Sample ID: 50335726001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2265

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 15:09
Lab Sample ID: 50335726001
Date Analyzed: 01/23/2023 15:09
Lab File ID: A012323.B\A11.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA 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	1.2	
156-60-5	trans-1,2-Dichloroethene	5.0	
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U
563-58-6	1,1-Dichloropropene	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2265

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana | Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35 | Matrix: Water | SDG No.: 50335726

Date Extracted: 01/23/2023 15:09 | Lab Sample ID: 50335726001

Date Analyzed: 01/23/2023 15:09 | Lab File ID: A012323.B\A11.D

Initial wt/vol: 5 mL | Final wt/vol: 5 mL | Dilution: 1 | Instrument: 50MVDA | Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
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
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	3.8	
1330-20-7	Xylene (Total)	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2265

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 15:09
Lab Sample ID: 50335726001
Date Analyzed: 01/23/2023 15:09
Lab File ID: A012323.B\A11.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	1.146	10.1	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a11.d
Lab Smp Id: 50335726001 Client Smp ID: LA2265
Inj Date : 23-JAN-2023 15:09
Operator : tkg Inst ID: 50mvda.i
Smp Info : 50335726001
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.396	1.396	(0.273)	10894	3.79317	3.79(M)	LT
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	2.148	2.141	(0.421)	2822	1.22277	1.22	
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	13397	5.02181	5.02	
22 n-Hexane	57	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	Compound Not Detected.						
24 Vinyl Acetate	43	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 chloroprene	53	Compound Not Detected.						
27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
28 2,2-Dichloropropane	77	Compound Not Detected.						
29 1,2-Dichloroethene (cis)	96	3.774	3.775	(0.739)	1746340	584.228	584	
30 2-Butanone	43	Compound Not Detected.						
31 Ethyl Acetate	88	Compound Not Detected.						
32 Propionitrile	54	Compound Not Detected.						
33 Methacrylonitrile	41	Compound Not Detected.						
34 Bromochloromethane	49	Compound Not Detected.						
35 Tetrahydrofuran	42	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
$ 37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	117185	53.8625	53.9	
38 1,1,1-Trichloroethane	97	Compound Not Detected.						
39 Cyclohexane	56	Compound Not Detected.						
40 Carbon Tetrachloride	117	Compound Not Detected.						
41 1,1-Dichloropropene	75	Compound Not Detected.						
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	Compound Not Detected.						
44 1,2-Dichloroethane	62	Compound Not Detected.						
45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
46 tert-Amylmethyl ether	73	Compound Not Detected.						
* 47 Fluorobenzene	96	5.107	5.107	(1.000)	425917	50.0000		
48 Trichloroethene	95	Compound Not Detected.						
49 Methylcyclohexane	55	Compound Not Detected.						
50 1,2-Dichloropropane	63	Compound Not Detected.						
51 Dibromomethane	93	Compound Not Detected.						
52 1,4-Dioxane	88	Compound Not Detected.						
53 Methyl methacrylate	69	Compound Not Detected.						
54 Bromodichloromethane	83	Compound Not Detected.						
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$ 58 Toluene-d8	98	6.697	6.697	(0.867)	405113	47.6731	47.7	
59 Toluene	91	6.747	6.747	(0.873)	995	0.08434	0.0843	
60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
61 Ethyl Methacrylate	69	Compound Not Detected.						
62 1,1,2-Trichloroethane	83	Compound Not Detected.						
63 Tetrachloroethene	166	Compound Not Detected.						
64 1,3-Dichloropropane	76	Compound Not Detected.						
65 2-Hexanone	43	Compound Not Detected.						
66 Dibromochloromethane	129	Compound Not Detected.						
67 1,2-Dibromoethane	107	Compound Not Detected.						
* 68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	323975	50.0000		
69 Chlorobenzene	112	Compound Not Detected.						
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
71 Ethylbenzene	106	Compound Not Detected.						
72 m&p-Xylene	106	Compound Not Detected.						
73 o-Xylene	106	Compound Not Detected.						
74 Styrene	104	Compound Not Detected.						
75 Bromoform	173	Compound Not Detected.						
76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	129749	47.7717	47.8	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	149742	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

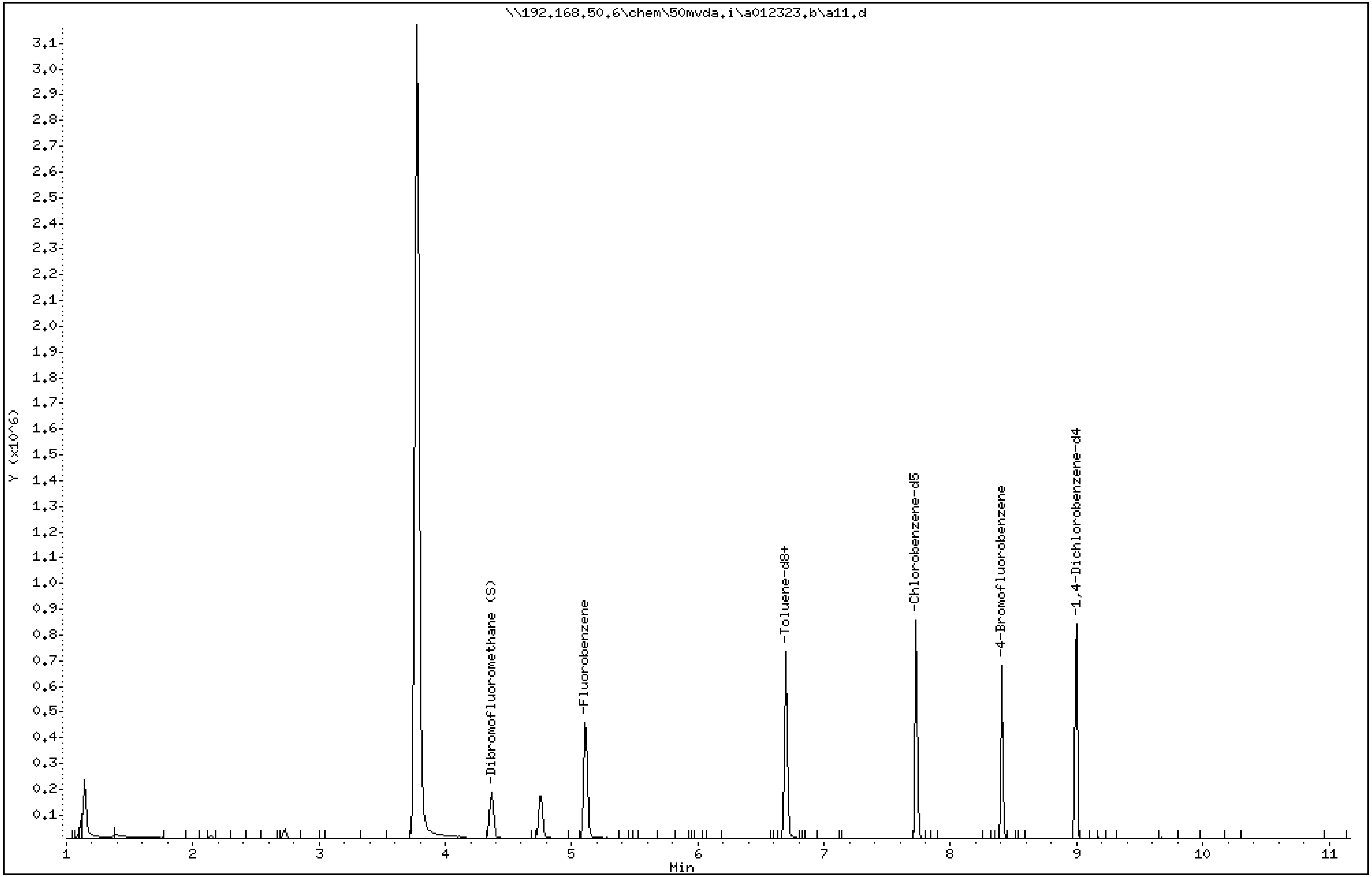
QC Flag Legend

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).

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a11.d | Page 4
Date : 23-JAN-2023 15:09
Client ID: LA2265 | Instrument: 50mvda.i
Sample Info: 50335726001
Purge Volume: 5.0 | Operator: tkg
Column phase: DB-624 | Column diameter: 0.18



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Date : 23-JAN-2023 15:09

Client ID: LA2265

Instrument: 50mvda.i

Sample Info: 50335726001

Purge Volume: 5.0

Operator: tkg

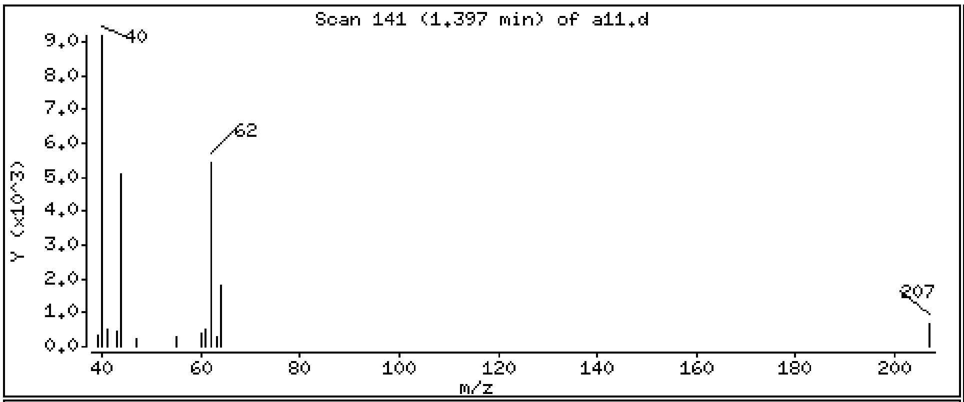
Column phase: DB-624

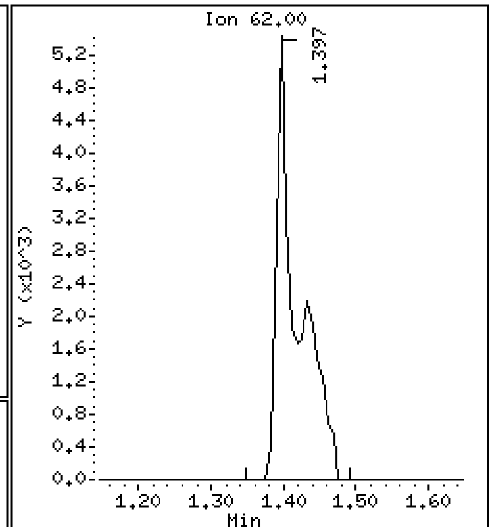
Column diameter: 0.18

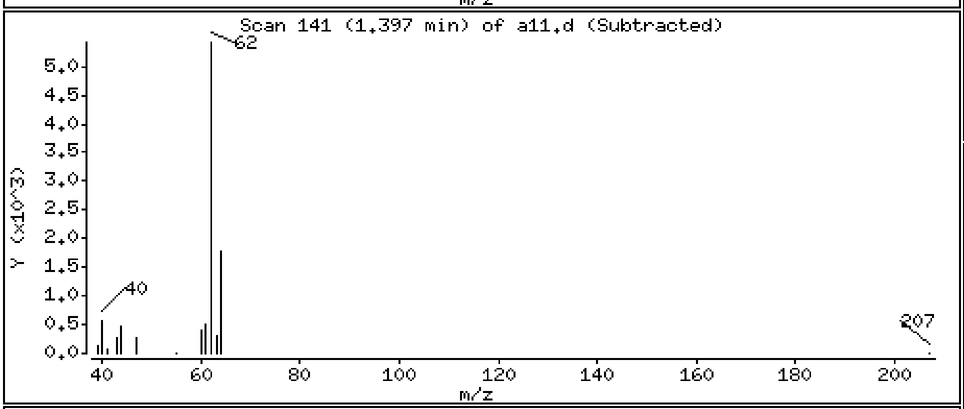
3 Vinyl Chloride

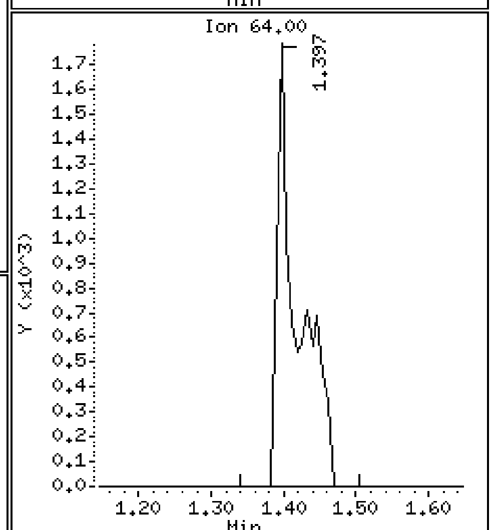
Concentration: 3.79 ppb

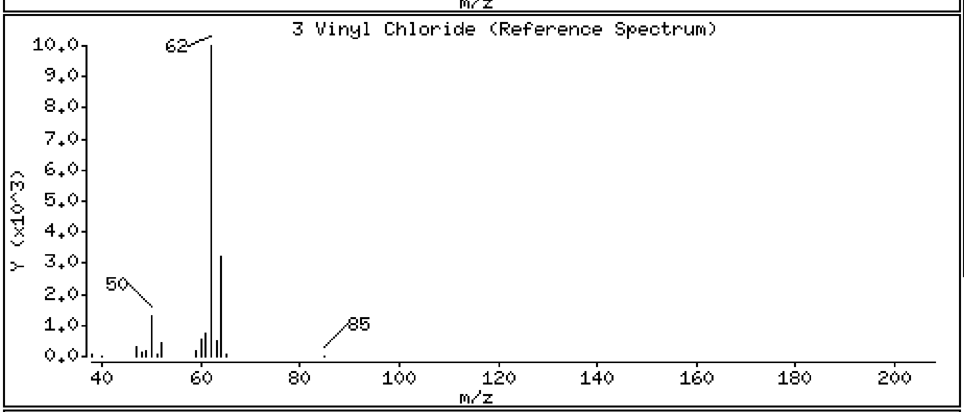
Review Code: LT

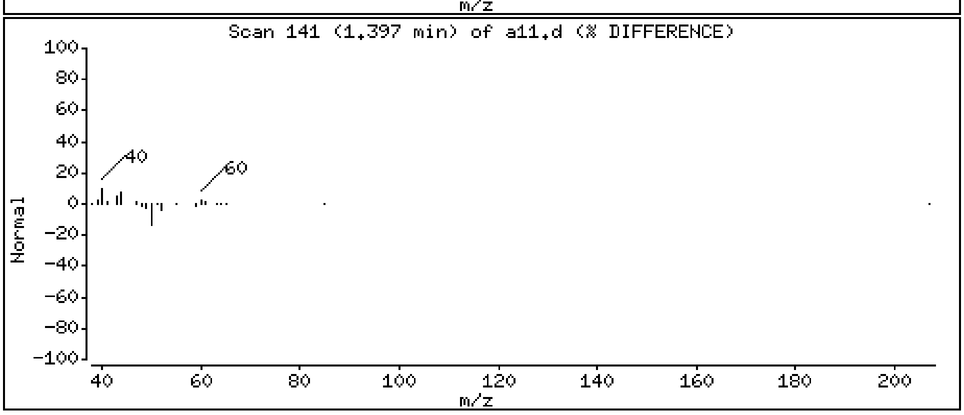












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a11.d Page 6

Date : 23-JAN-2023 15:09

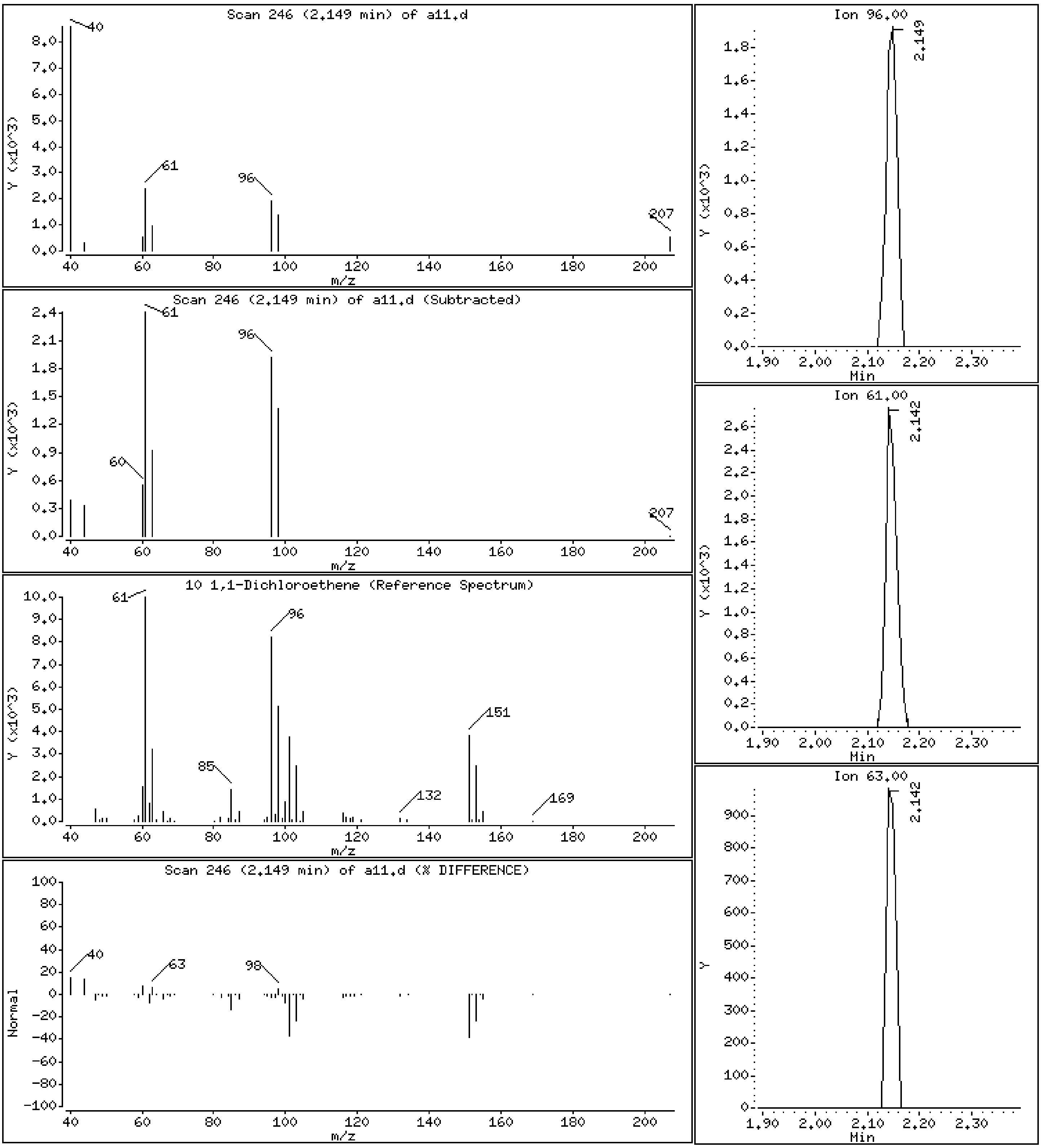
Client ID: LA2265 Instrument: 50mvda.i

Sample Info: 50335726001

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

10 1,1-Dichloroethene Concentration: 1.22 ppb Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a11.d

Date : 23-JAN-2023 15:09

Client ID: LA2265

Instrument: 50mvda.i

Sample Info: 50335726001

Purge Volume: 5.0

Operator: tkg

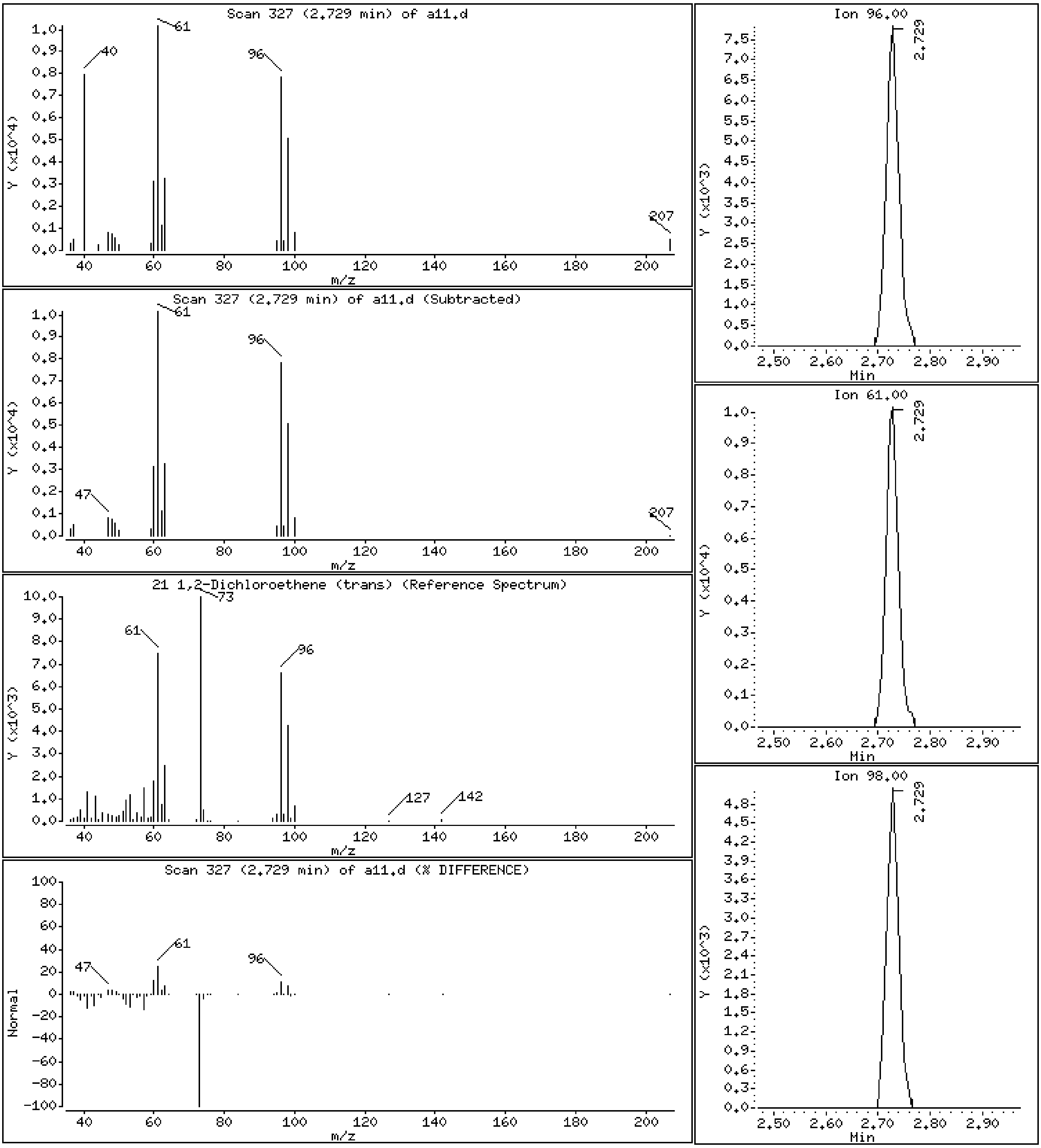
Column phase: DB-624

Column diameter: 0.18

21 1,2-Dichloroethene (trans)

Concentration: 5.02 ppb

Review Code:



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Date : 23-JAN-2023 15:09

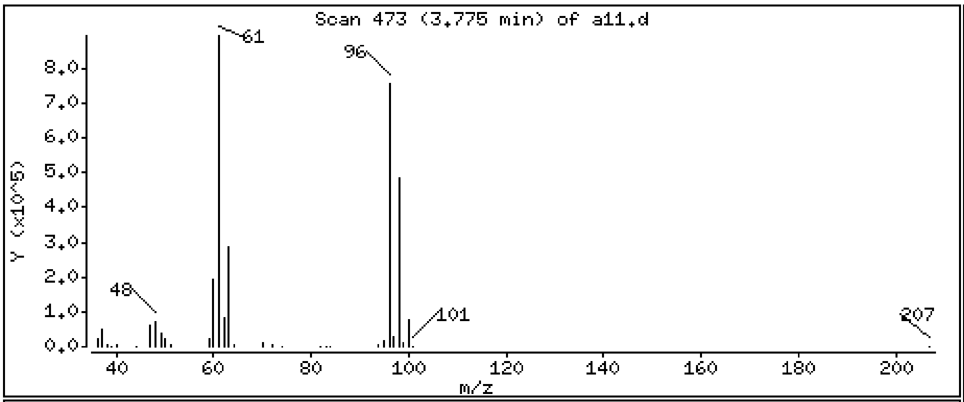
Client ID: LA2265 Instrument: 50mvda.i

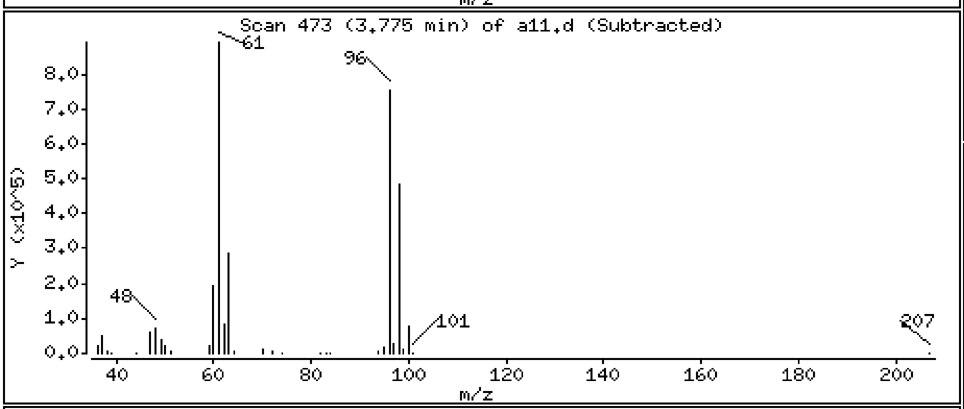
Sample Info: 50335726001

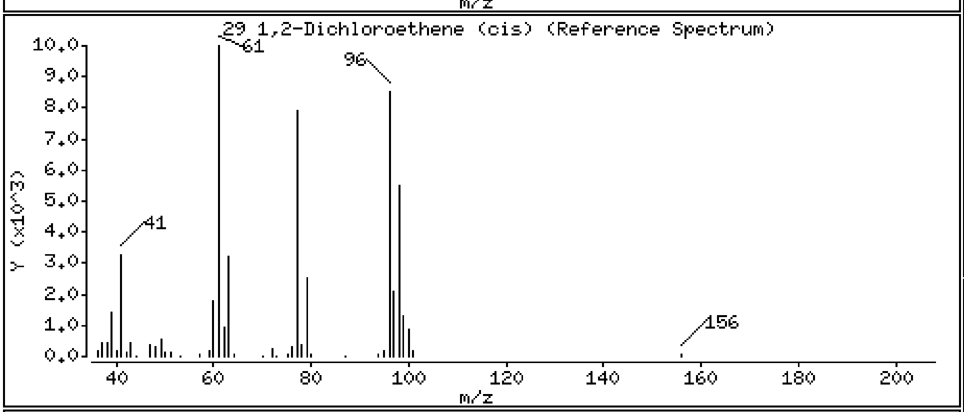
Purge Volume: 5.0 Operator: tkg

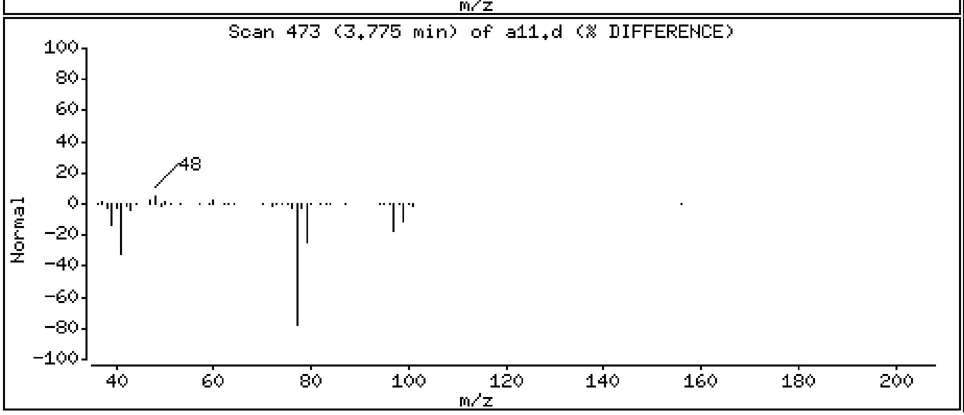
Column phase: DB-624 Column diameter: 0.18

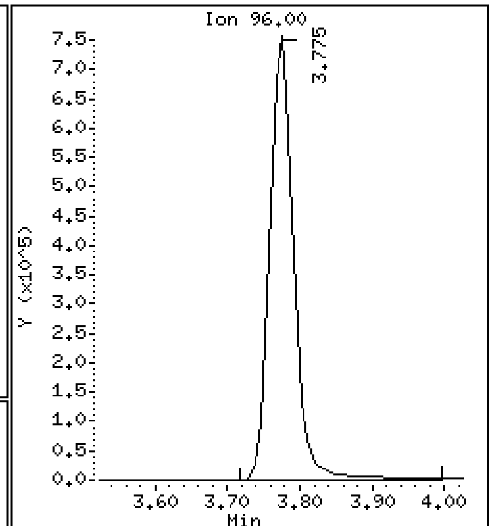
29 1,2-Dichloroethene (cis) Concentration: 584 ppb Review Code:

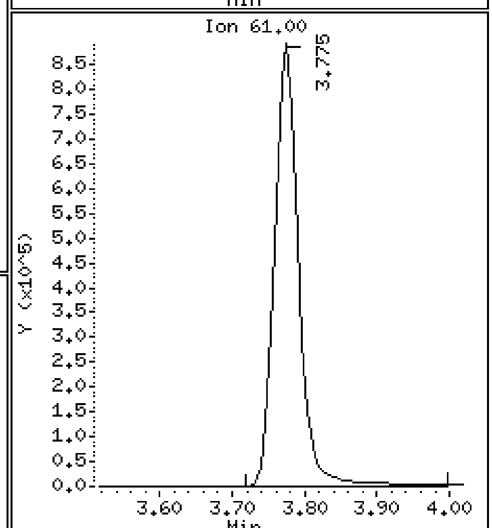


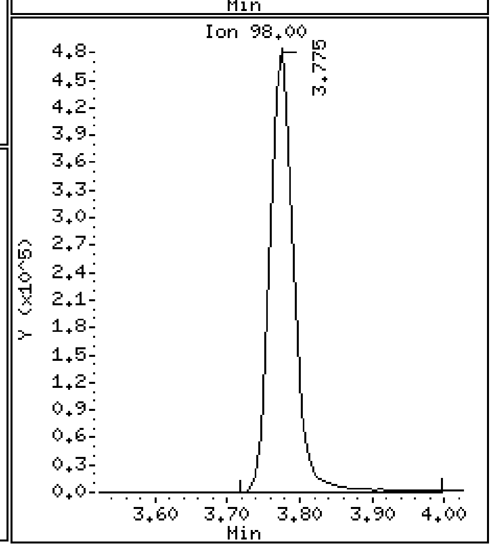












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a11.d

Page 9

Date : 23-JAN-2023 15:09

Client ID: LA2265

Instrument: 50mvda.i

Sample Info: 50335726001

Purge Volume: 5.0

Operator: tkg

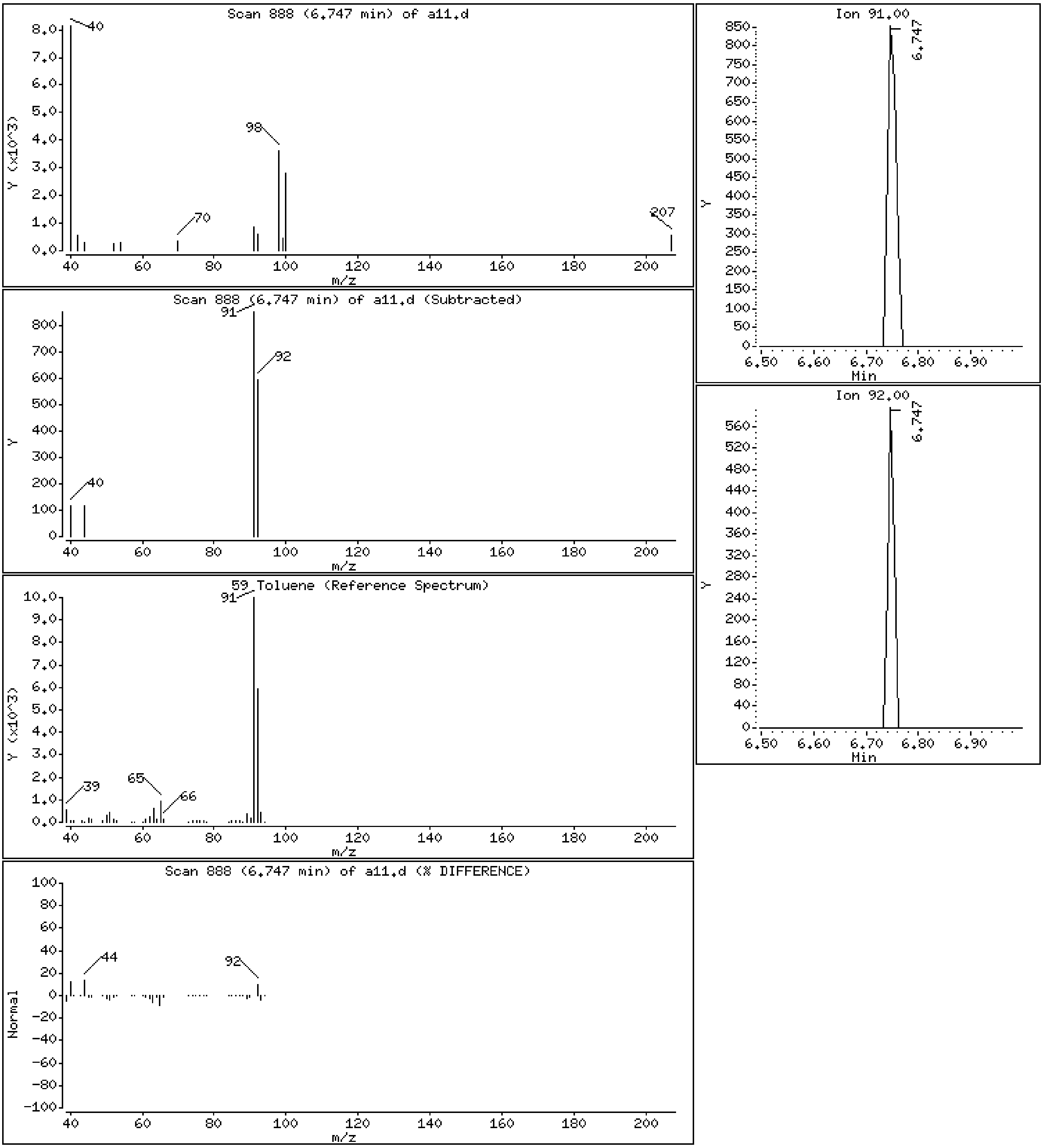
Column phase: DB-624

Column diameter: 0.18

59 Toluene

Concentration: 0.0843 ppb

Review Code:



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Date : 23-JAN-2023 15:09

Client ID: LA2265

Instrument: 50mvda.i

Sample Info: 50335726001

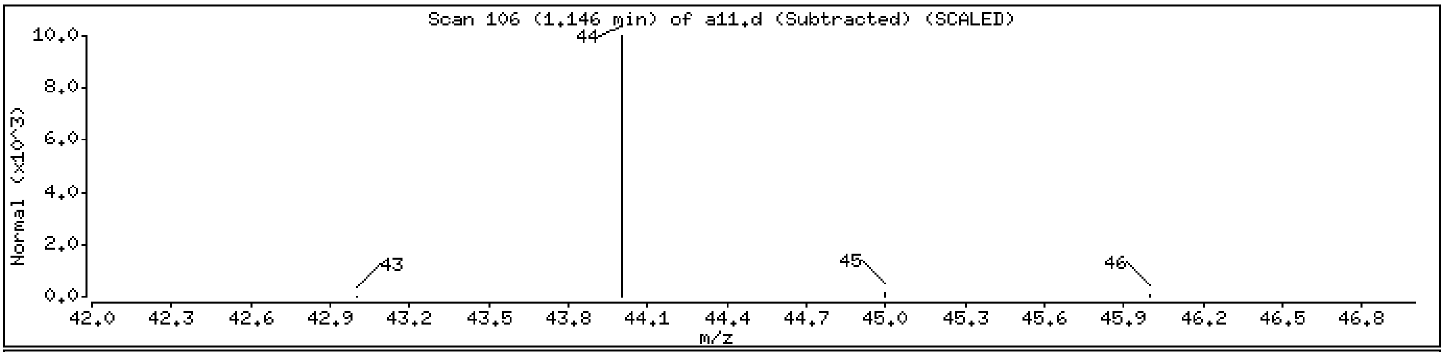
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

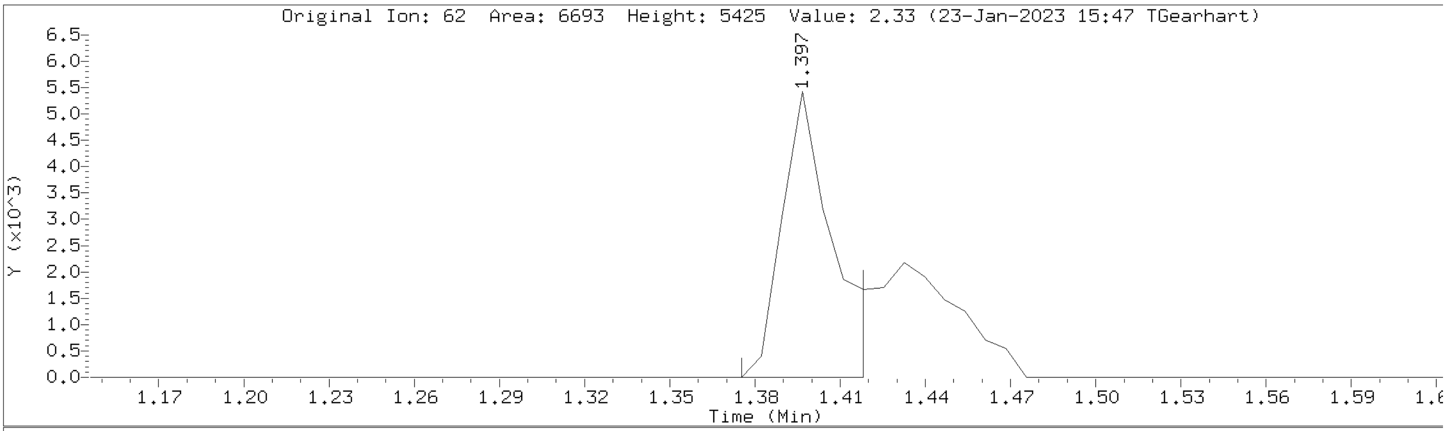
Column diameter: 0.18

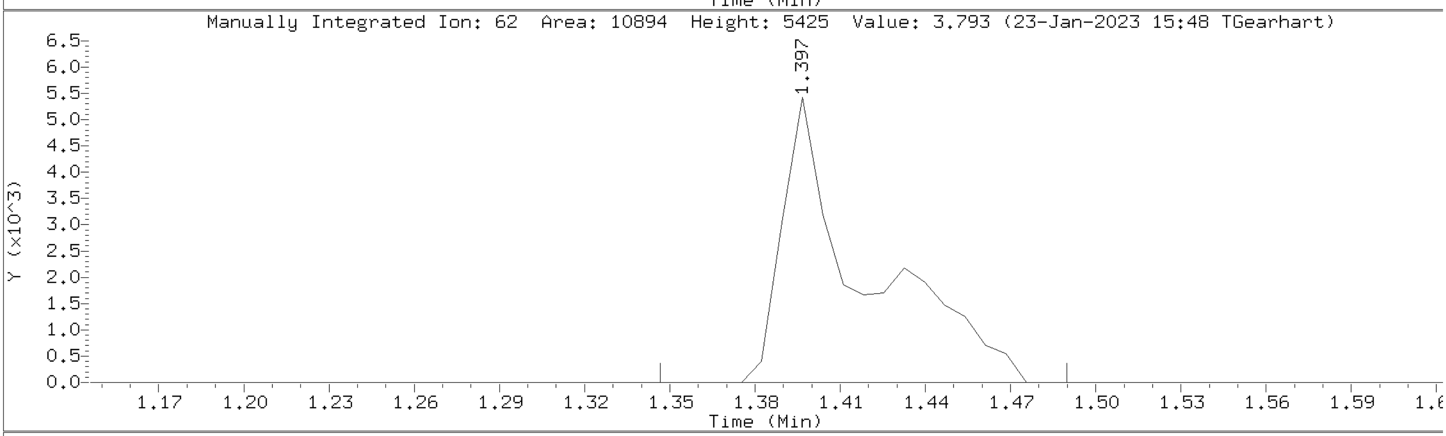
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

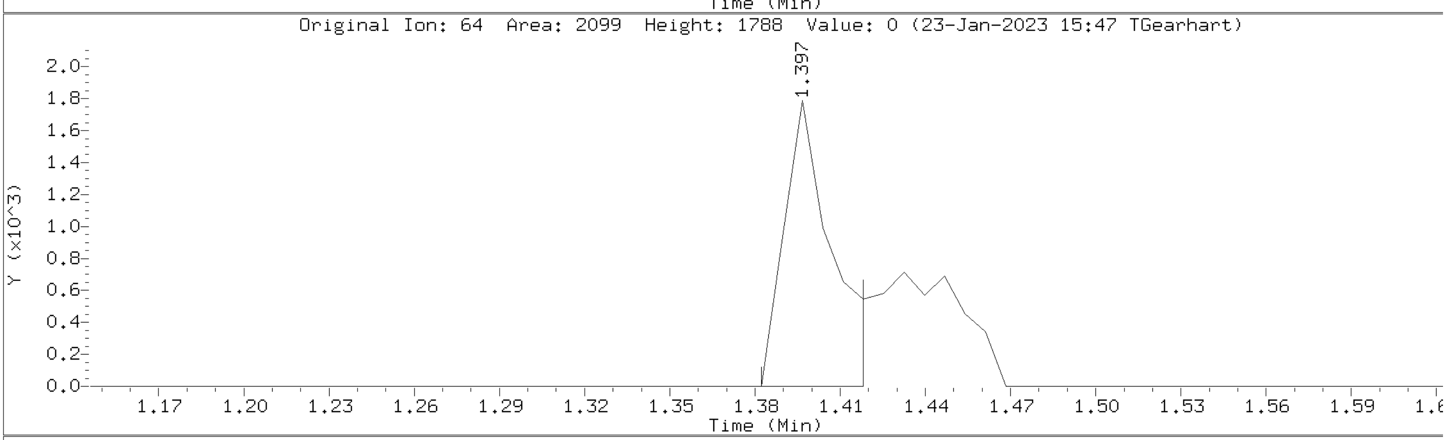


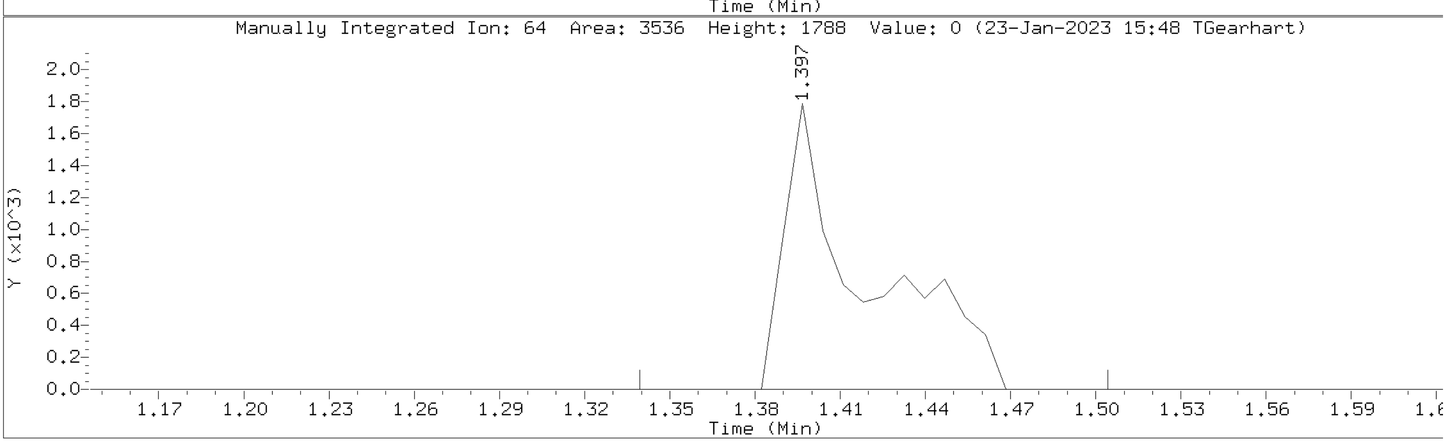
Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a11.d
Injection Date: 23-JAN-2023 15:09
Instrument: 50mvda.i
Lab Sample ID: 50335726001

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4









SAMPLE NO.

LA2266

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/24/2023 16:14

Lab Sample ID: 50335726002

Date Analyzed: 01/24/2023 16:14

Lab File ID: B012423.B\B07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10

Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	373	

02/02/2023 6:30

SAMPLE NO.

LA2266

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/24/2023 16:14
Lab Sample ID: 50335726002
Date Analyzed: 01/24/2023 16:14
Lab File ID: B012423.B\B07.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10
Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	4.599	185	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b07.d
Lab Smp Id: 50335726002 Client Smp ID: LA2266
Inj Date : 24-JAN-2023 16:14
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 50335726002x10
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	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)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.339	1.339	(0.269)	2260	1.53759	15.4(Q)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	52918	37.3355	373	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	48179	52.5775	52.6	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.985	4.978	(1.000)	201728	50.0000	(Q)	
	48 Trichloroethene	95	5.372	5.379	(1.078)	725	0.53437	5.34	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.589	6.590	(0.863)	182155	49.2775	49.3	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	142561	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

						CONCENTRATIONS		
	QUANT SIG					ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.302	(1.087)	65555	48.8215	48.8	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.875	8.875	(1.000)	91569	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b07.d

Page 4

Date : 24-JAN-2023 16:14

Client ID: LA2266

Instrument: 50mvcb.i

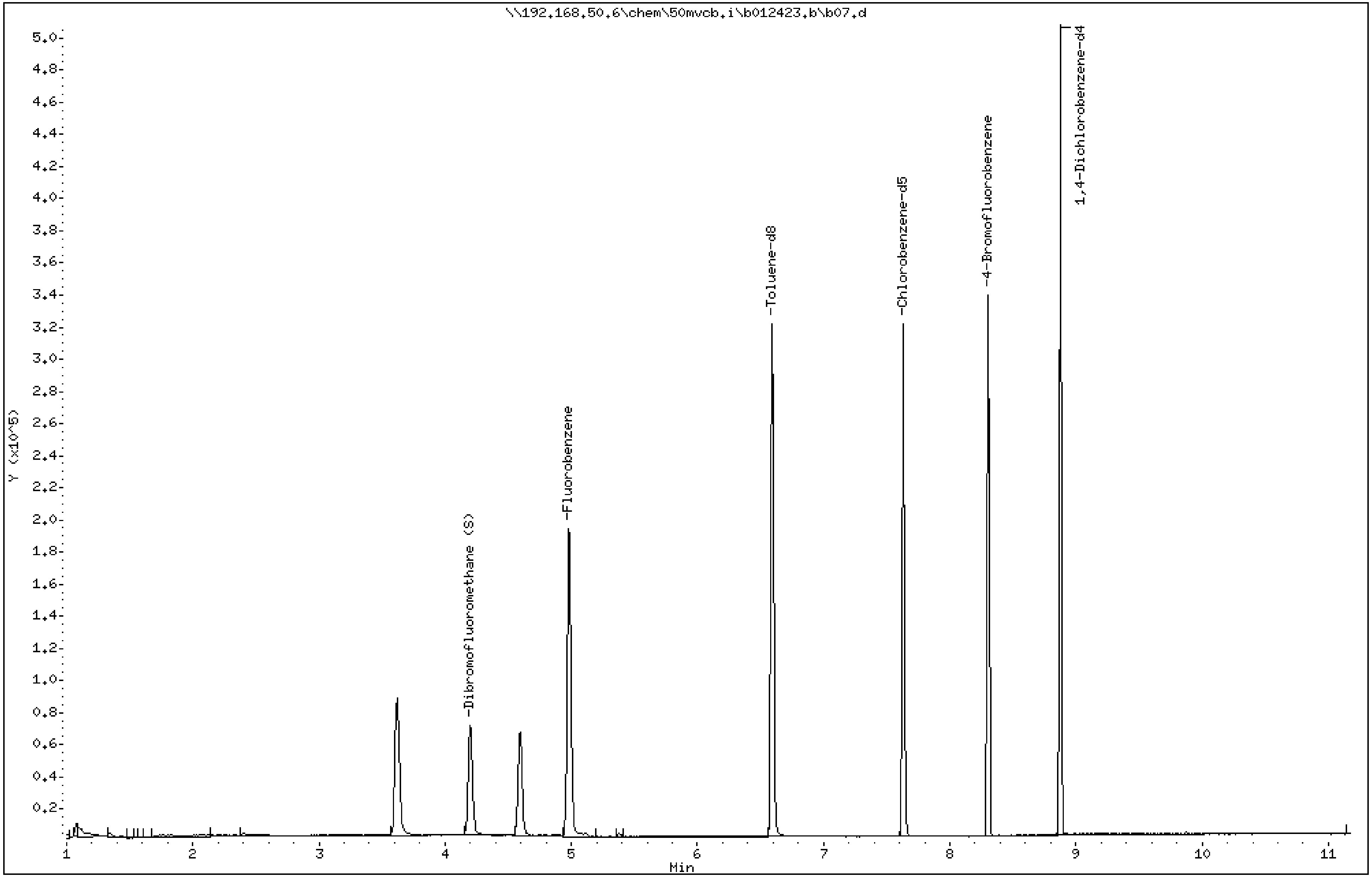
Sample Info: 50335726002x10

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b07.d

Date : 24-JAN-2023 16:14

Client ID: LA2266

Instrument: 50mvcb.i

Sample Info: 50335726002x10

Purge Volume: 5.0

Operator: tkg

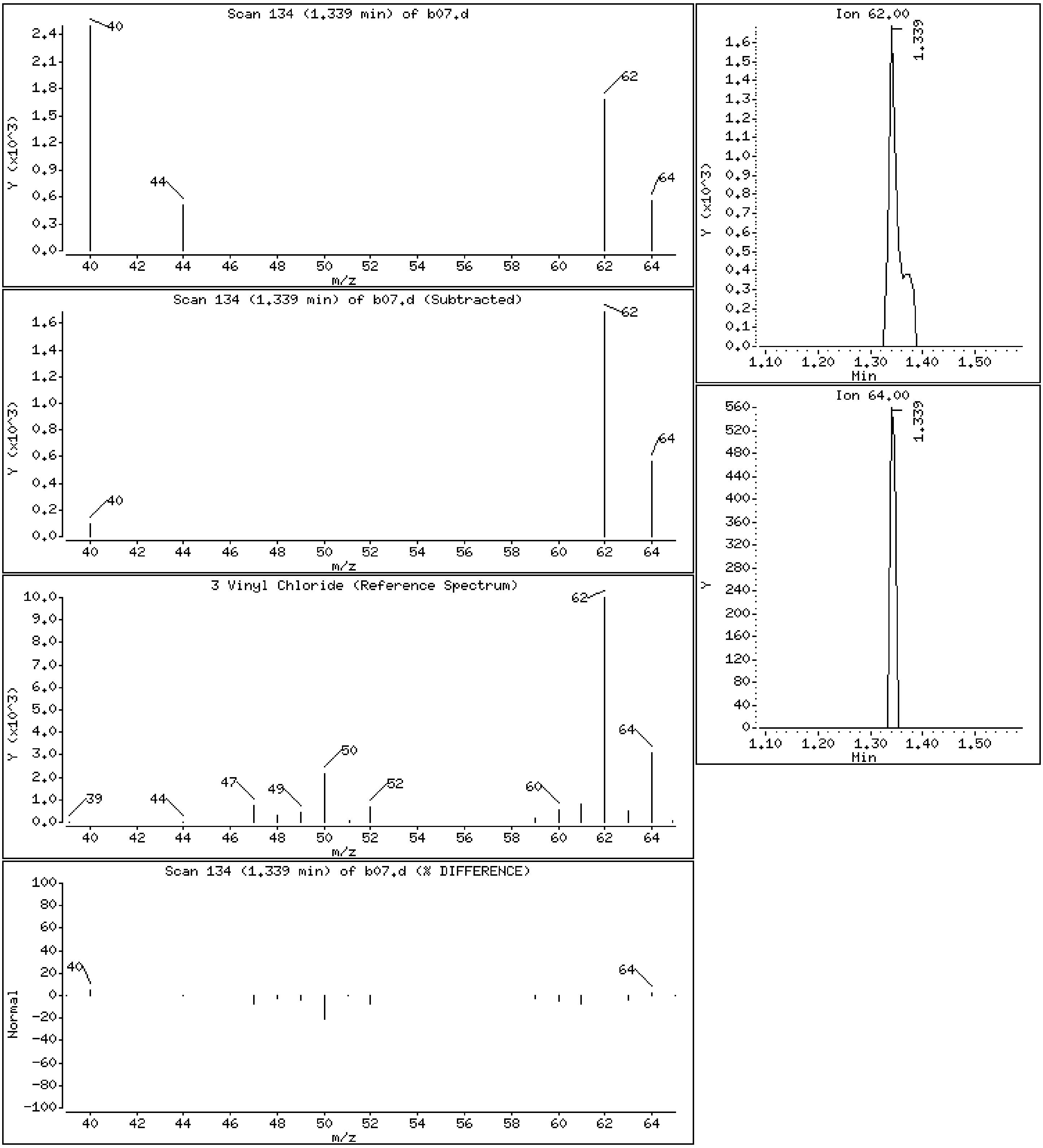
Column phase: DB-624

Column diameter: 0.18

3 Vinyl Chloride

Concentration: 15.4 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b07.d

Date : 24-JAN-2023 16:14

Client ID: LA2266

Instrument: 50mvcb.i

Sample Info: 50335726002x10

Purge Volume: 5.0

Operator: tkg

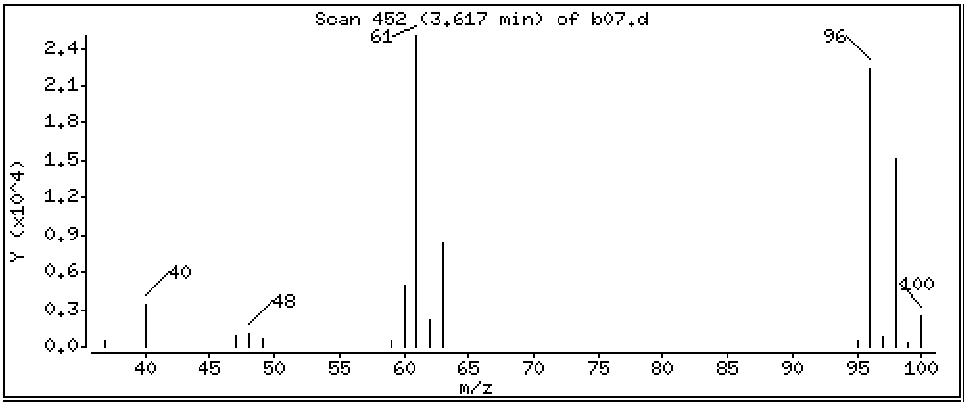
Column phase: DB-624

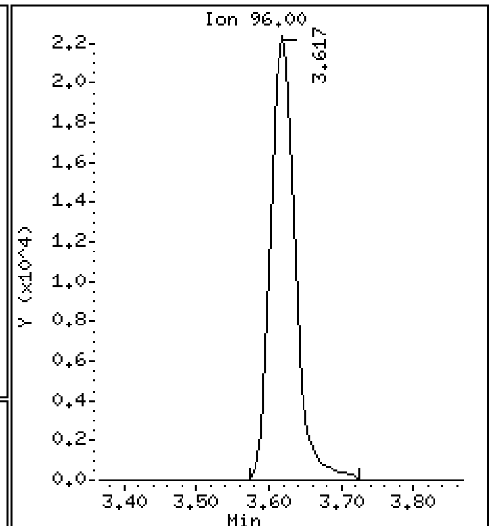
Column diameter: 0.18

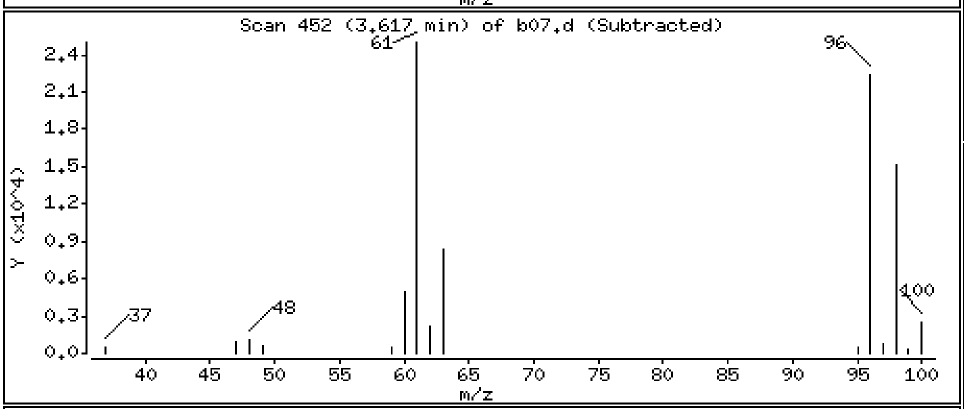
29 1,2-Dichloroethene (cis)

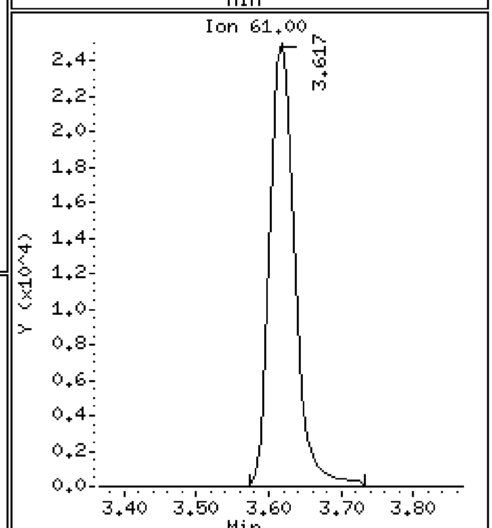
Concentration: 373 ppb

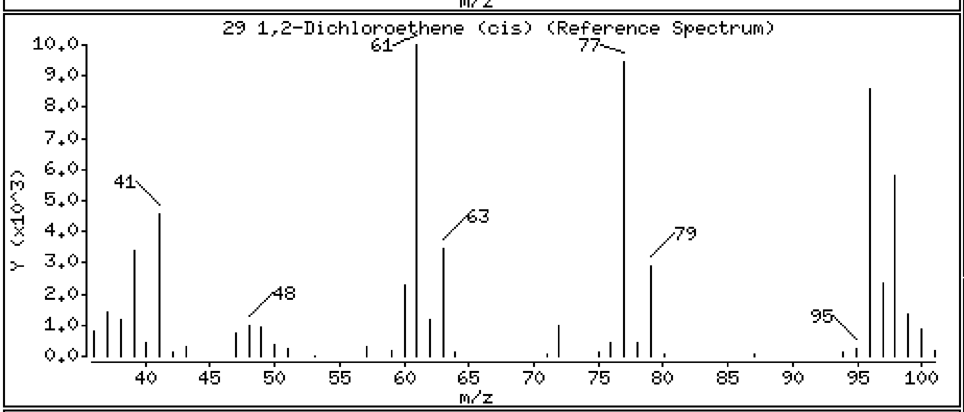
Review Code:

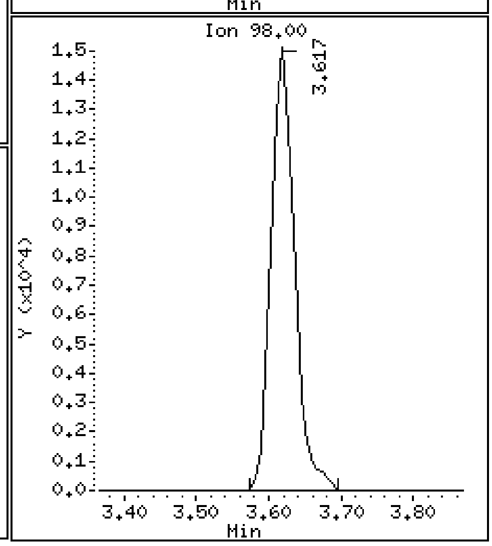


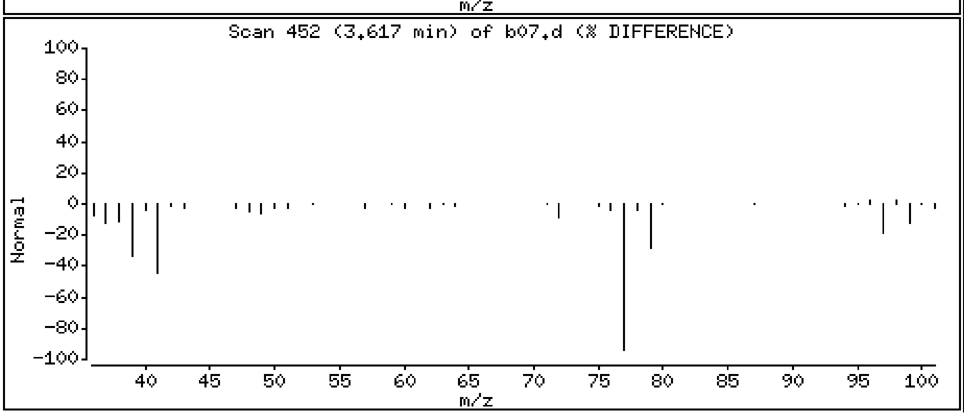












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Date : 24-JAN-2023 16:14

Client ID: LA2266

Instrument: 50mvcb.i

Sample Info: 50335726002x10

Purge Volume: 5.0

Operator: tkg

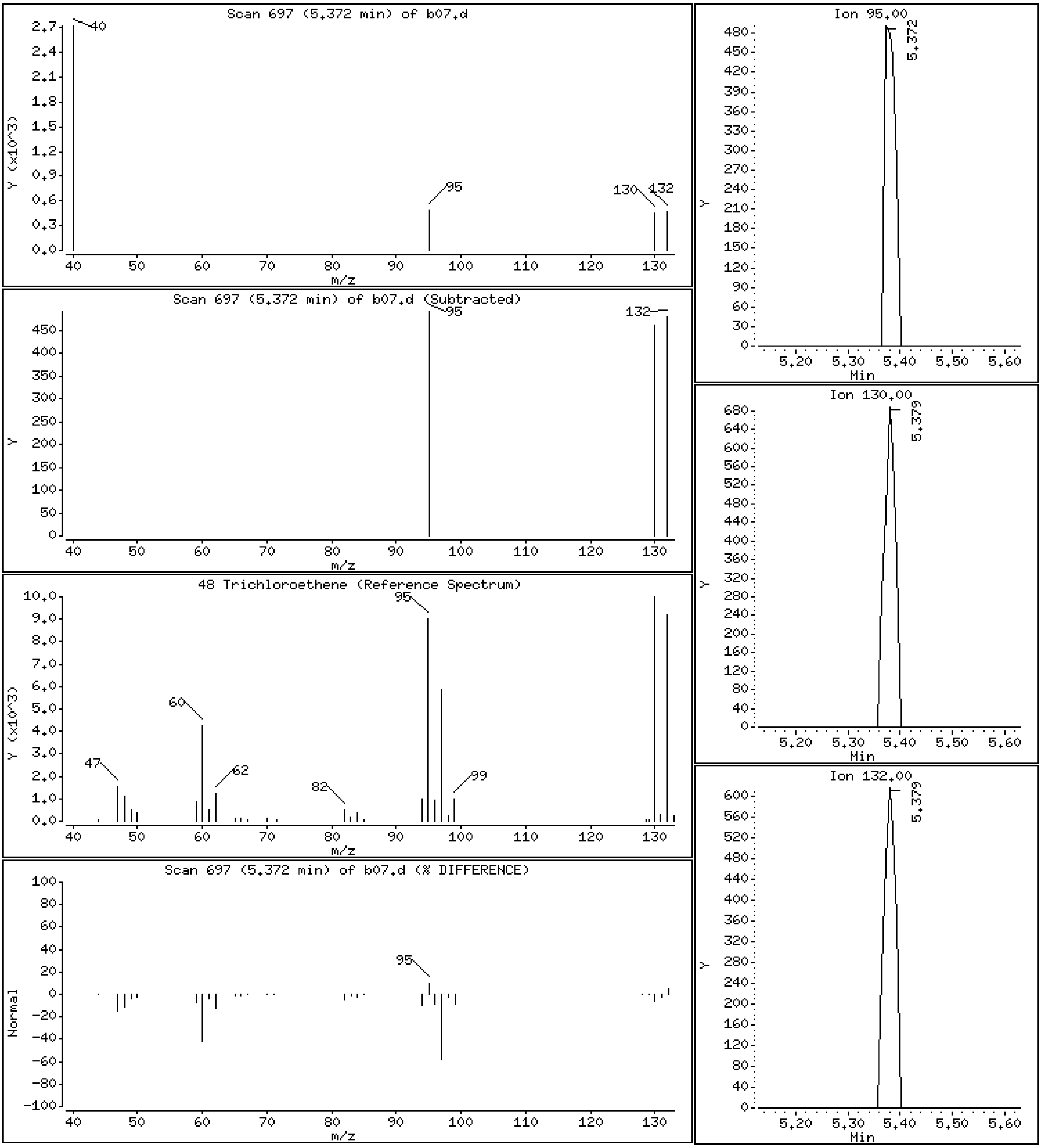
Column phase: DB-624

Column diameter: 0.18

48 Trichloroethene

Concentration: 5.34 ppb

Review Code:



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Date : 24-JAN-2023 16:14

Client ID: LA2266

Instrument: 50mvcb.i

Sample Info: 50335726002x10

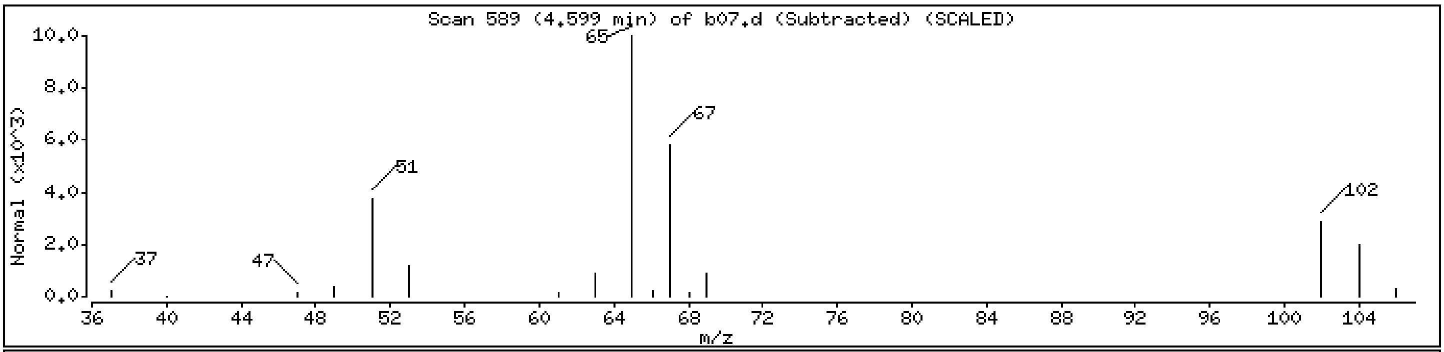
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Injection Date: 24-JAN-2023 16:14
Instrument: 50mvcb.i
Lab Sample ID: 50335726002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2266

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 15:36
Lab Sample ID: 50335726002
Date Analyzed: 01/23/2023 15:36
Lab File ID: A012323.B\A12.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA 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
156-60-5	trans-1,2-Dichloroethene	1.4	
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U
563-58-6	1,1-Dichloropropene	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2266

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water
SDG No.: 50335726
Date Extracted: 01/23/2023 15:36
Lab Sample ID: 50335726002
Date Analyzed: 01/23/2023 15:36
Lab File ID: A012323.B\A12.D
Initial wt/vol: 5 mL
Final wt/vol: 5 mL
Dilution: 1
Instrument: 50MVDA
Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
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
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	9.9	
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	29.8	
1330-20-7	Xylene (Total)	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2266

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 15:36
Lab Sample ID: 50335726002
Date Analyzed: 01/23/2023 15:36
Lab File ID: A012323.B\A12.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	1.146	46.9	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a12.d
Lab Smp Id: 50335726002 Client Smp ID: LA2266
Inj Date : 23-JAN-2023 15:36
Operator : tkg Inst ID: 50mvda.i
Smp Info : 50335726002
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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

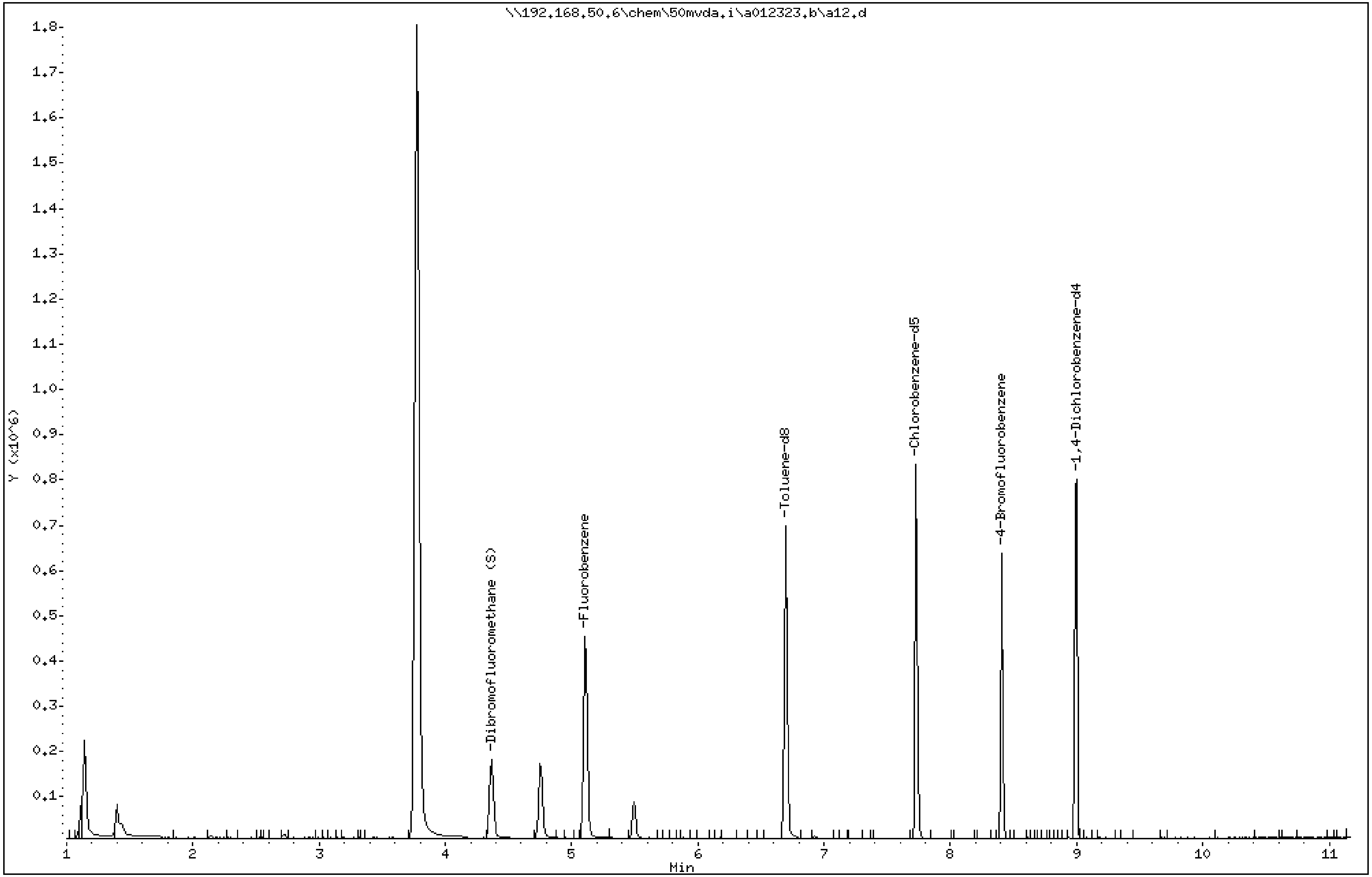
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.396	1.396	(0.273)	83592	29.7739	29.8	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	1722	0.76327	0.763	
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	3562	1.36585	1.36	
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.774	3.775	(0.739)	1010132	345.691	346	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	112530	52.9101	52.9	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	416360	50.0000		
	48 Trichloroethene	95	5.493	5.494	(1.076)	23845	9.86407	9.86	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.697	6.697	(0.867)	394077	48.1927	48.2	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	311751	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.402	8.409	(1.087)	126940	48.5701	48.6	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	145769	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a12.d
Date : 23-JAN-2023 15:36
Client ID: LA2266
Sample Info: 50335726002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mvda.i
Operator: tkg
Column diameter: 0.18



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Date : 23-JAN-2023 15:36

Client ID: LA2266

Instrument: 50mvda.i

Sample Info: 50335726002

Purge Volume: 5.0

Operator: tkg

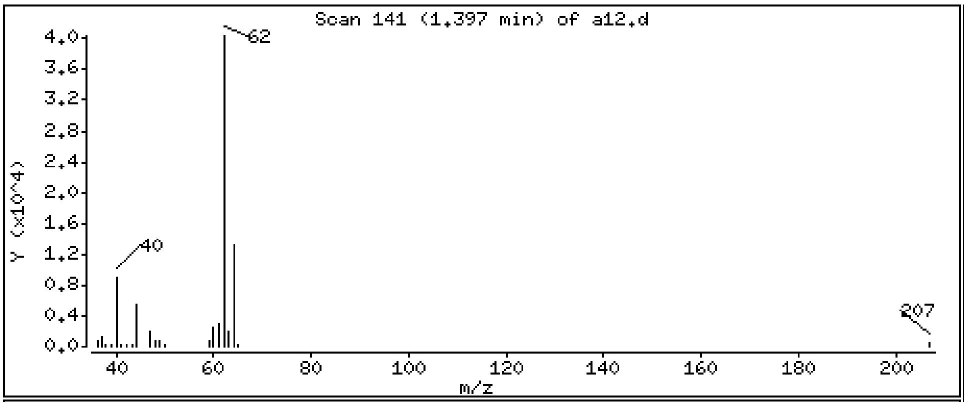
Column phase: DB-624

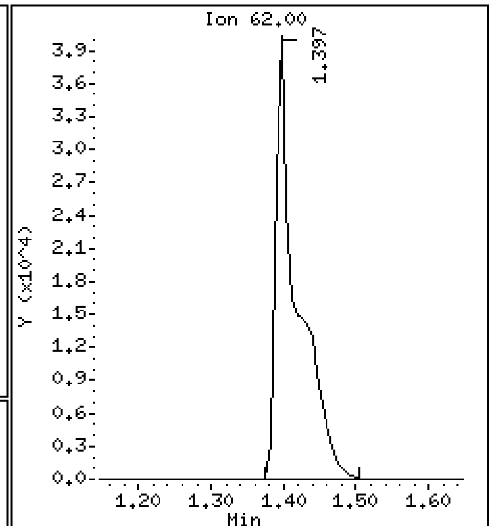
Column diameter: 0.18

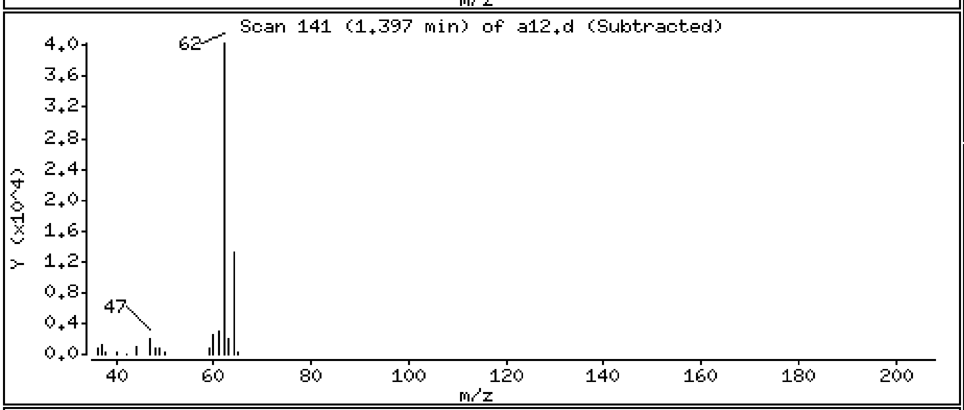
3 Vinyl Chloride

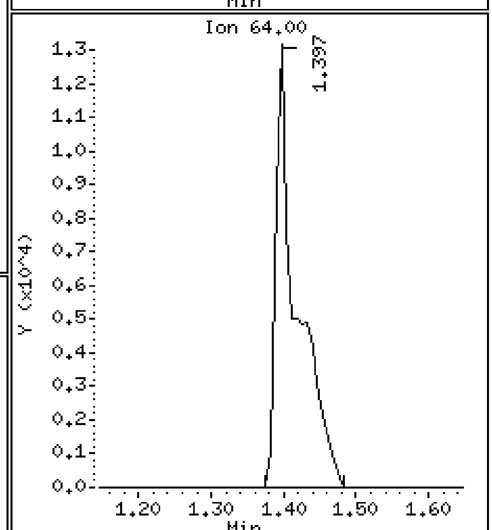
Concentration: 29.8 ppb

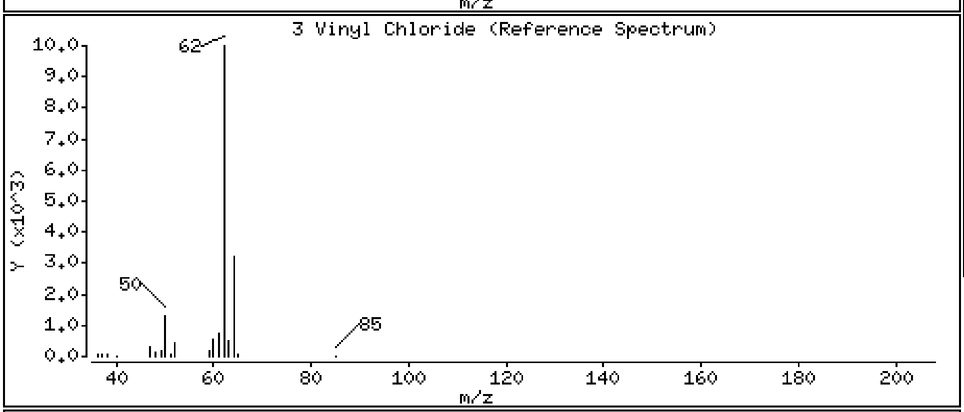
Review Code:

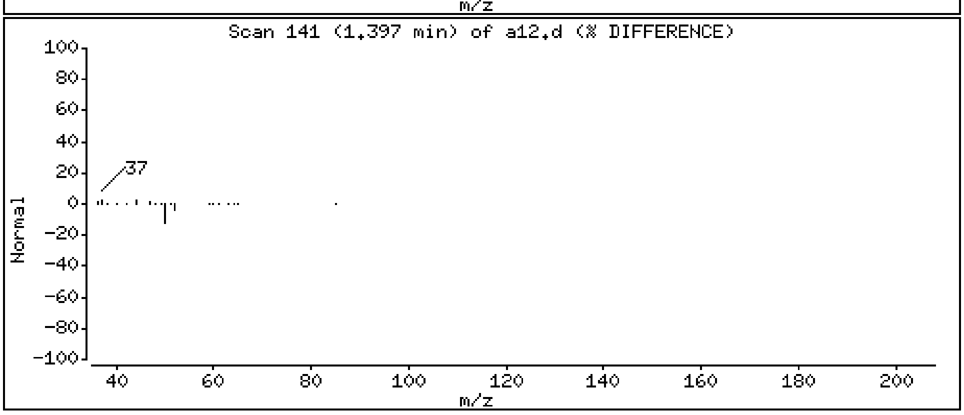












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Date : 23-JAN-2023 15:36

Client ID: LA2266

Instrument: 50mvda.i

Sample Info: 50335726002

Purge Volume: 5.0

Operator: tkg

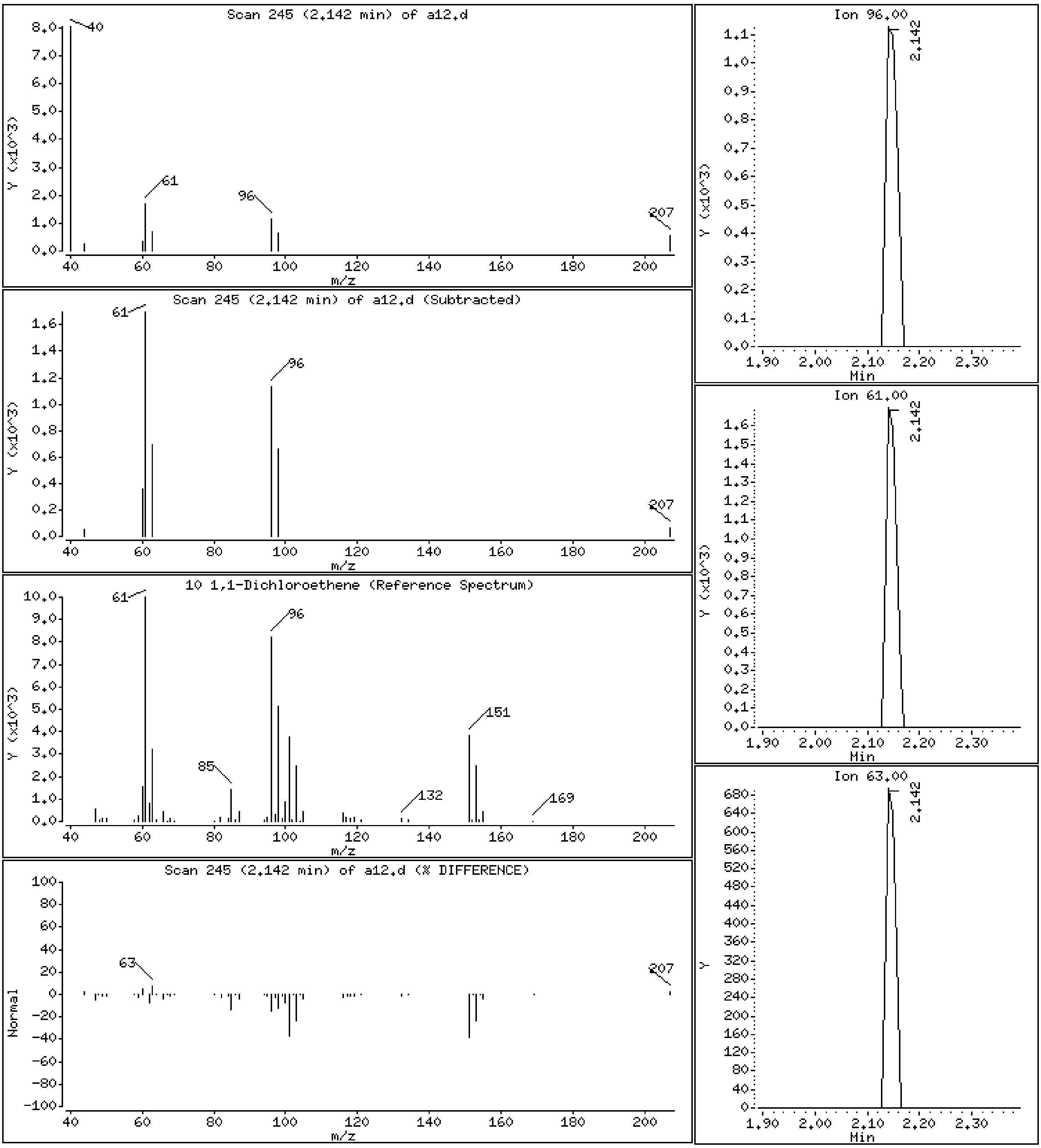
Column phase: DB-624

Column diameter: 0.18

10 1,1-Dichloroethene

Concentration: 0.763 ppb

Review Code:



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Date : 23-JAN-2023 15:36

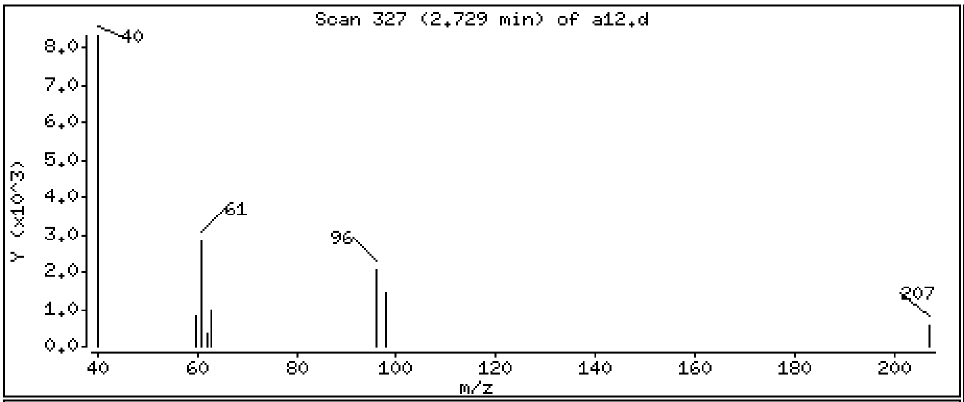
Client ID: LA2266 Instrument: 50mvda.i

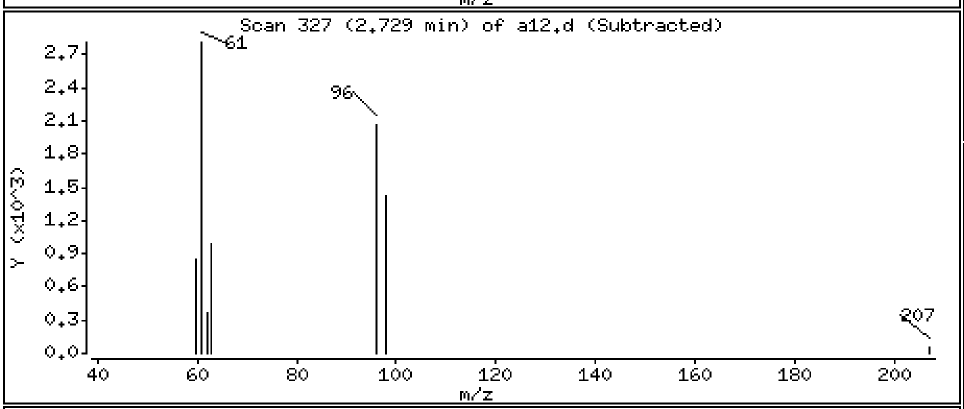
Sample Info: 50335726002

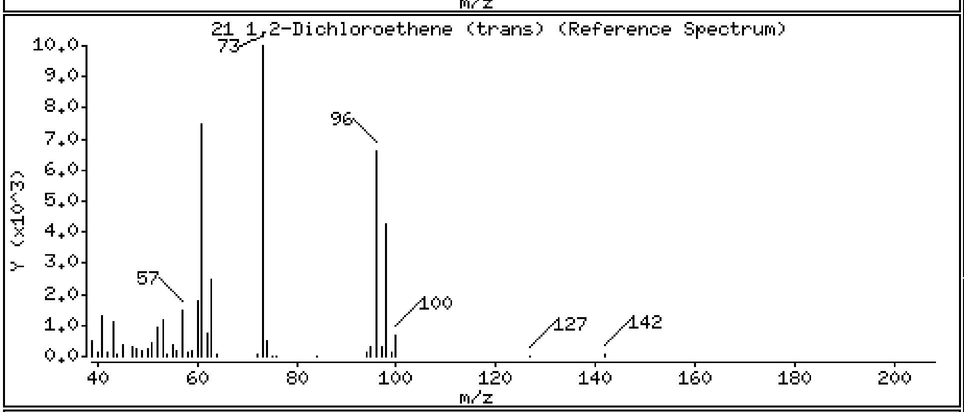
Purge Volume: 5.0 Operator: tkg

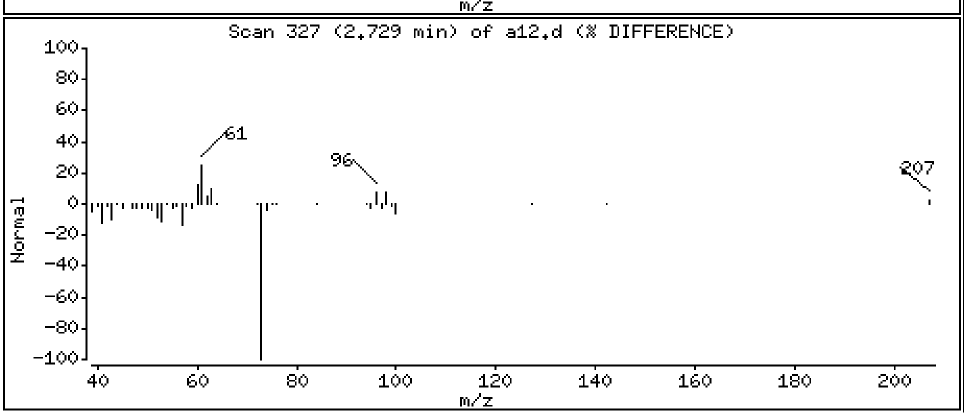
Column phase: DB-624 Column diameter: 0.18

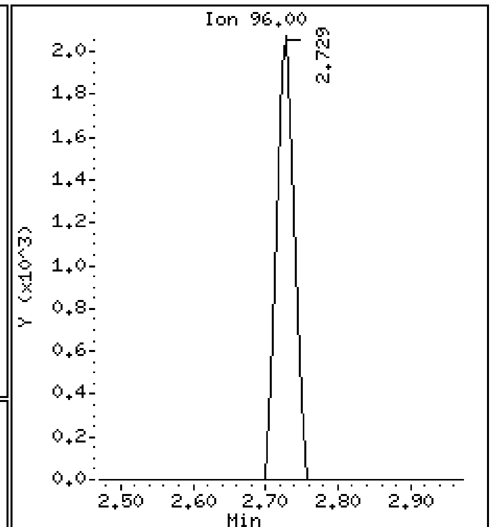
21 1,2-Dichloroethene (trans) Concentration: 1.36 ppb Review Code:

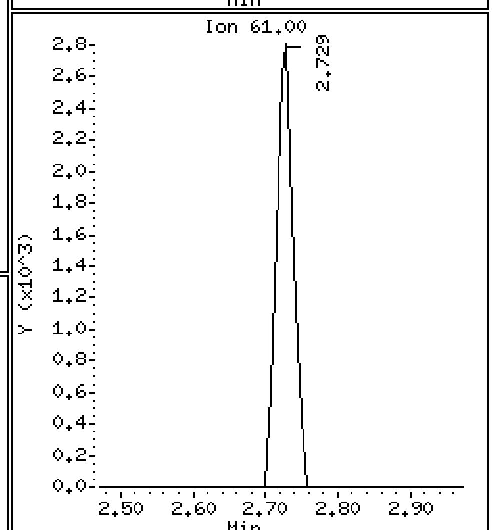


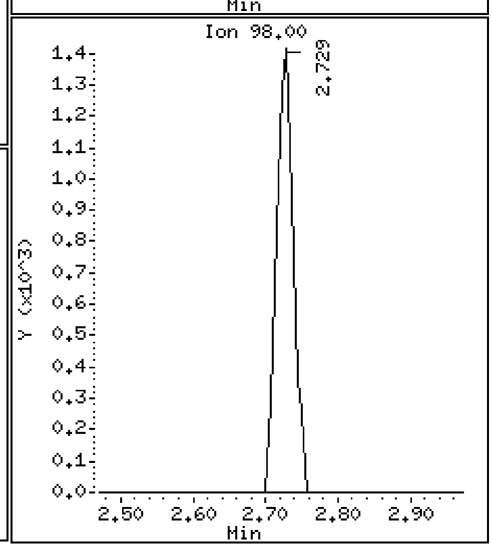












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a12.d

Date : 23-JAN-2023 15:36

Client ID: LA2266

Instrument: 50mvda.i

Sample Info: 50335726002

Purge Volume: 5.0

Operator: tkg

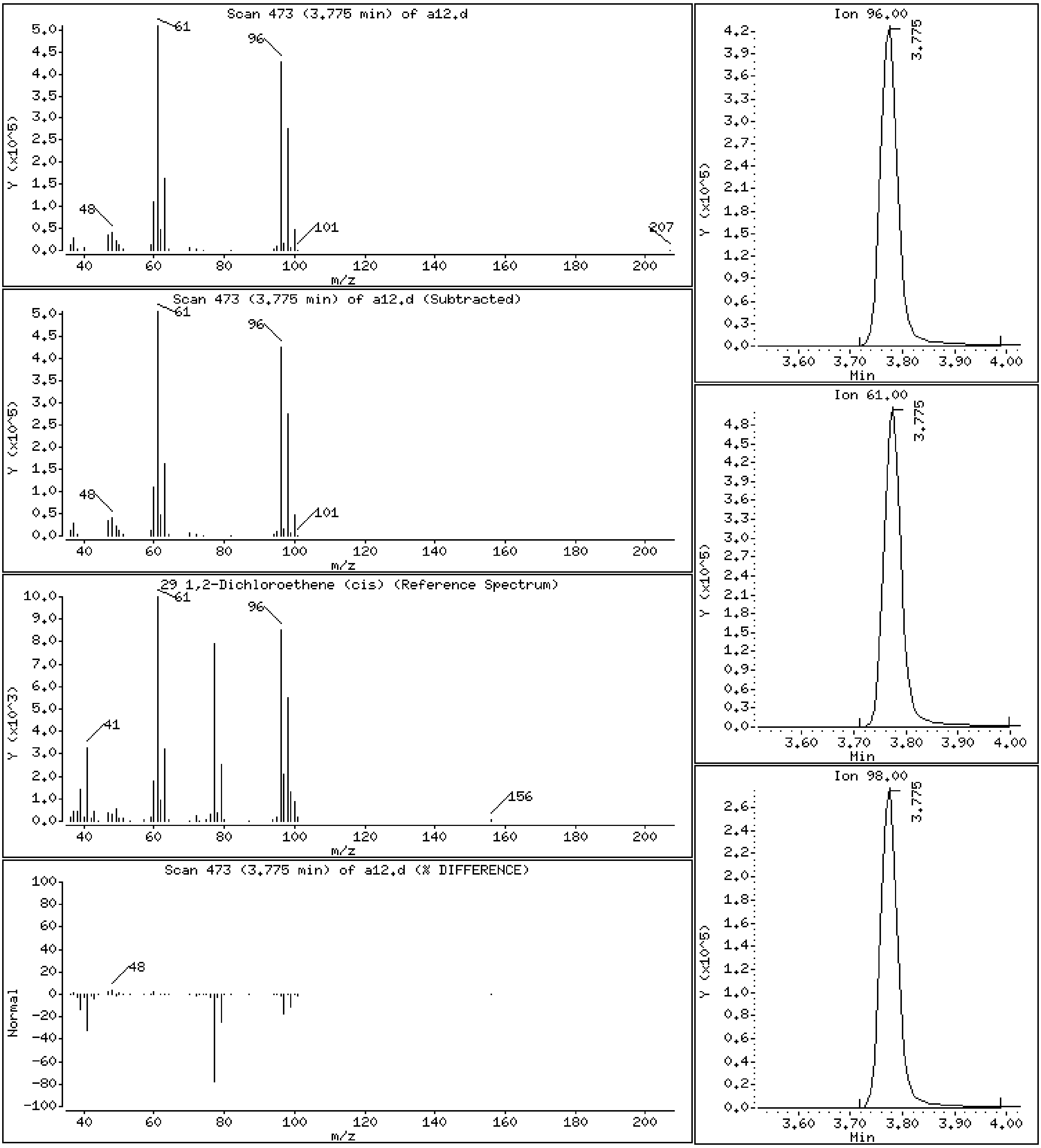
Column phase: DB-624

Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 346 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a12.d

Date : 23-JAN-2023 15:36

Client ID: LA2266

Instrument: 50mvda.i

Sample Info: 50335726002

Purge Volume: 5.0

Operator: tkg

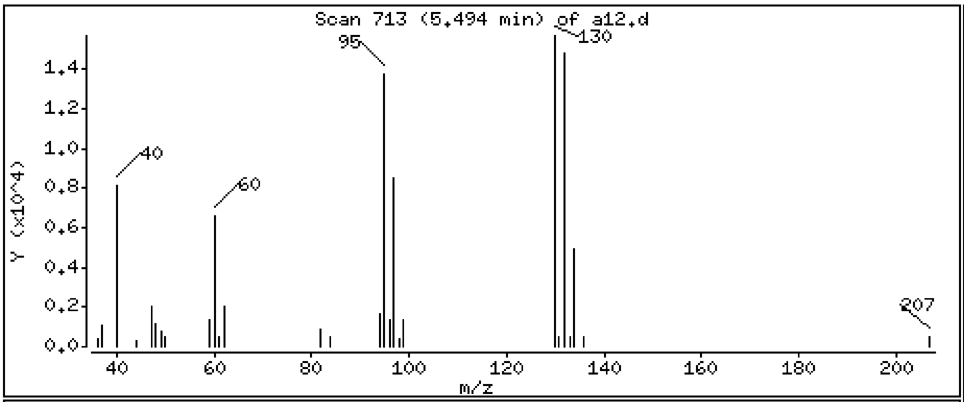
Column phase: DB-624

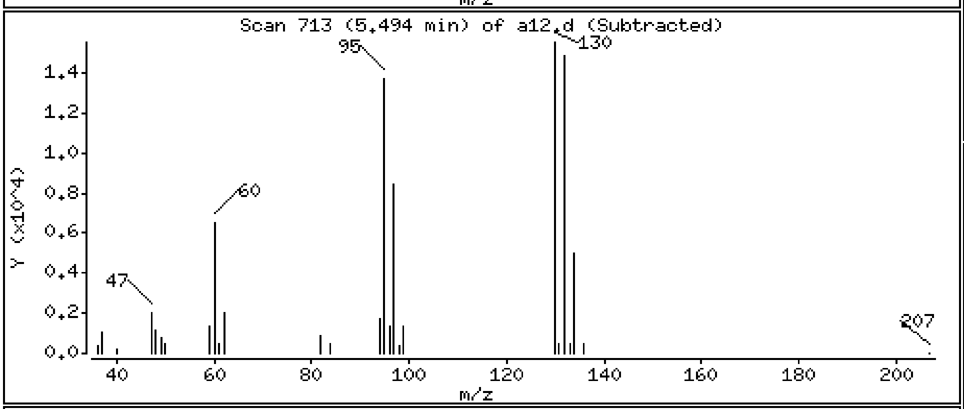
Column diameter: 0.18

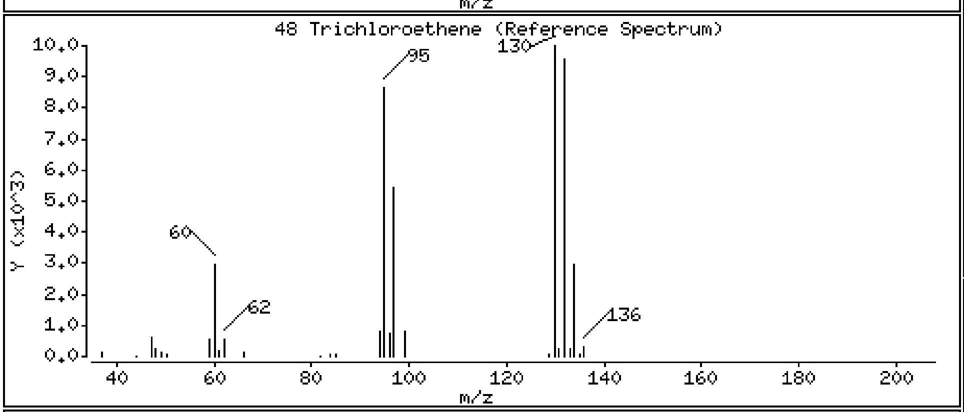
48 Trichloroethene

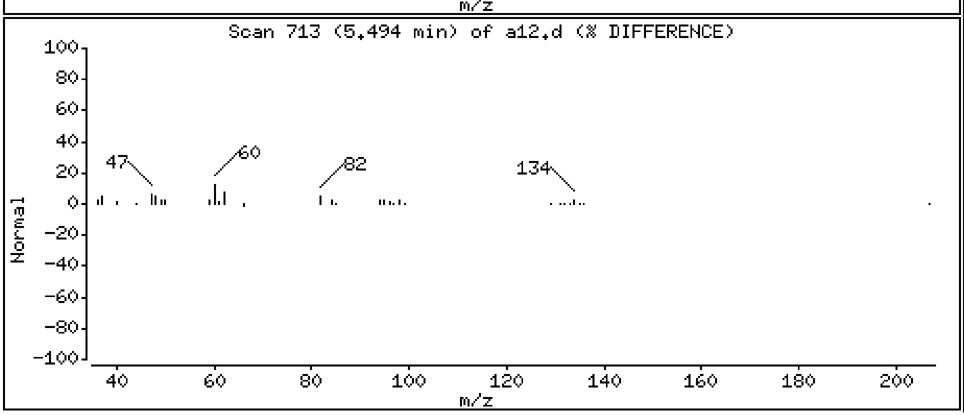
Concentration: 9.86 ppb

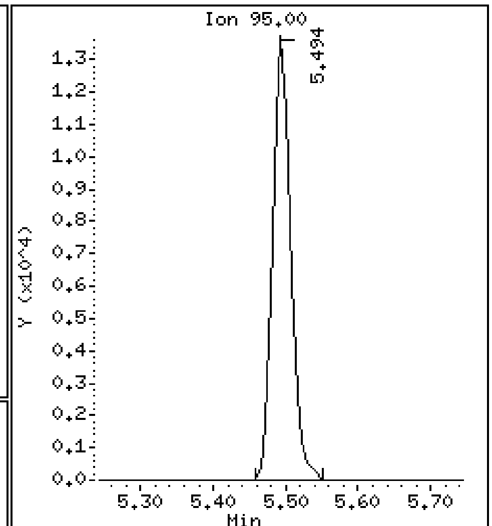
Review Code:

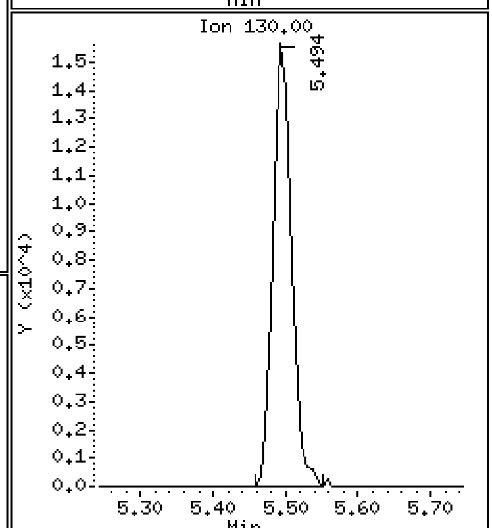


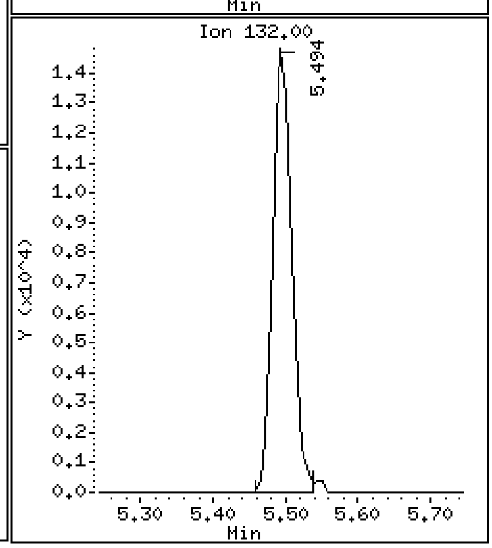












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a12.d

Date : 23-JAN-2023 15:36

Client ID: LA2266

Instrument: 50mvda.i

Sample Info: 50335726002

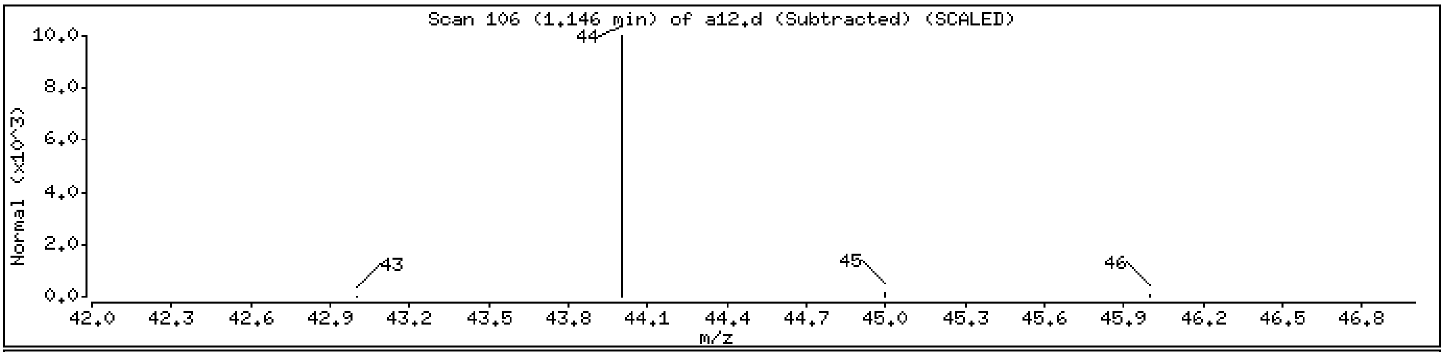
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



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Injection Date: 23-JAN-2023 15:36
Instrument: 50mvda.i
Lab Sample ID: 50335726002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2267

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/24/2023 16:46
Lab Sample ID: 50335726003
Date Analyzed: 01/24/2023 16:46
Lab File ID: B012423.B\B08.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10
Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	342	

02/02/2023 6:30

SAMPLE NO.

LA2267

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/24/2023 16:46
Lab Sample ID: 50335726003
Date Analyzed: 01/24/2023 16:46
Lab File ID: B012423.B\B08.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10
Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	4.599	169	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b08.d
Lab Smp Id: 50335726003 Client Smp ID: LA2267
Inj Date : 24-JAN-2023 16:46
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 50335726003x10
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	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)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.339	1.339	(0.269)	2100	1.42466	14.2	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	Compound Not Detected.						
24 Vinyl Acetate	43	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 chloroprene	53	Compound Not Detected.						
27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
28 2,2-Dichloropropane	77	Compound Not Detected.						
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	48573	34.1722	342	
30 2-Butanone	43	Compound Not Detected.						
31 Ethyl Acetate	88	Compound Not Detected.						
32 Propionitrile	54	Compound Not Detected.						
33 Methacrylonitrile	41	Compound Not Detected.						
34 Bromochloromethane	49	Compound Not Detected.						
35 Tetrahydrofuran	42	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
$ 37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	47022	51.1685	51.2	
38 1,1,1-Trichloroethane	97	Compound Not Detected.						
39 Cyclohexane	56	Compound Not Detected.						
40 Carbon Tetrachloride	117	Compound Not Detected.						
41 1,1-Dichloropropene	75	Compound Not Detected.						
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	Compound Not Detected.						
44 1,2-Dichloroethane	62	Compound Not Detected.						
45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
46 tert-Amylmethyl ether	73	Compound Not Detected.						
* 47 Fluorobenzene	96	4.985	4.978	(1.000)	202305	50.0000	(Q)	
48 Trichloroethene	95	5.379	5.379	(1.079)	757	0.55636	5.56	
49 Methylcyclohexane	55	Compound Not Detected.						
50 1,2-Dichloropropane	63	Compound Not Detected.						
51 Dibromomethane	93	Compound Not Detected.						
52 Methyl methacrylate	69	Compound Not Detected.						
53 1,4-Dioxane	88	Compound Not Detected.						
54 Bromodichloromethane	83	Compound Not Detected.						
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$ 58 Toluene-d8	98	6.590	6.590	(0.863)	192608	48.8166	48.8	
59 Toluene	91	Compound Not Detected.						
60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
61 Ethyl Methacrylate	69	Compound Not Detected.						
62 1,1,2-Trichloroethane	83	Compound Not Detected.						
63 Tetrachloroethene	166	Compound Not Detected.						
64 1,3-Dichloropropane	76	Compound Not Detected.						
65 2-Hexanone	43	Compound Not Detected.						
66 Dibromochloromethane	129	Compound Not Detected.						
67 1,2-Dibromoethane	107	Compound Not Detected.						
* 68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	152165	50.0000		
69 Chlorobenzene	112	Compound Not Detected.						
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
71 Ethylbenzene	106	Compound Not Detected.						
72 m&p-Xylene	106	Compound Not Detected.						
73 o-Xylene	106	Compound Not Detected.						
74 Styrene	104	Compound Not Detected.						
75 Bromoform	173	Compound Not Detected.						
76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.302	(1.087)	78108	54.4987	54.5	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.875	8.875	(1.000)	91764	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

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Date : 24-JAN-2023 16:46

Client ID: LA2267

Instrument: 50mvcb.i

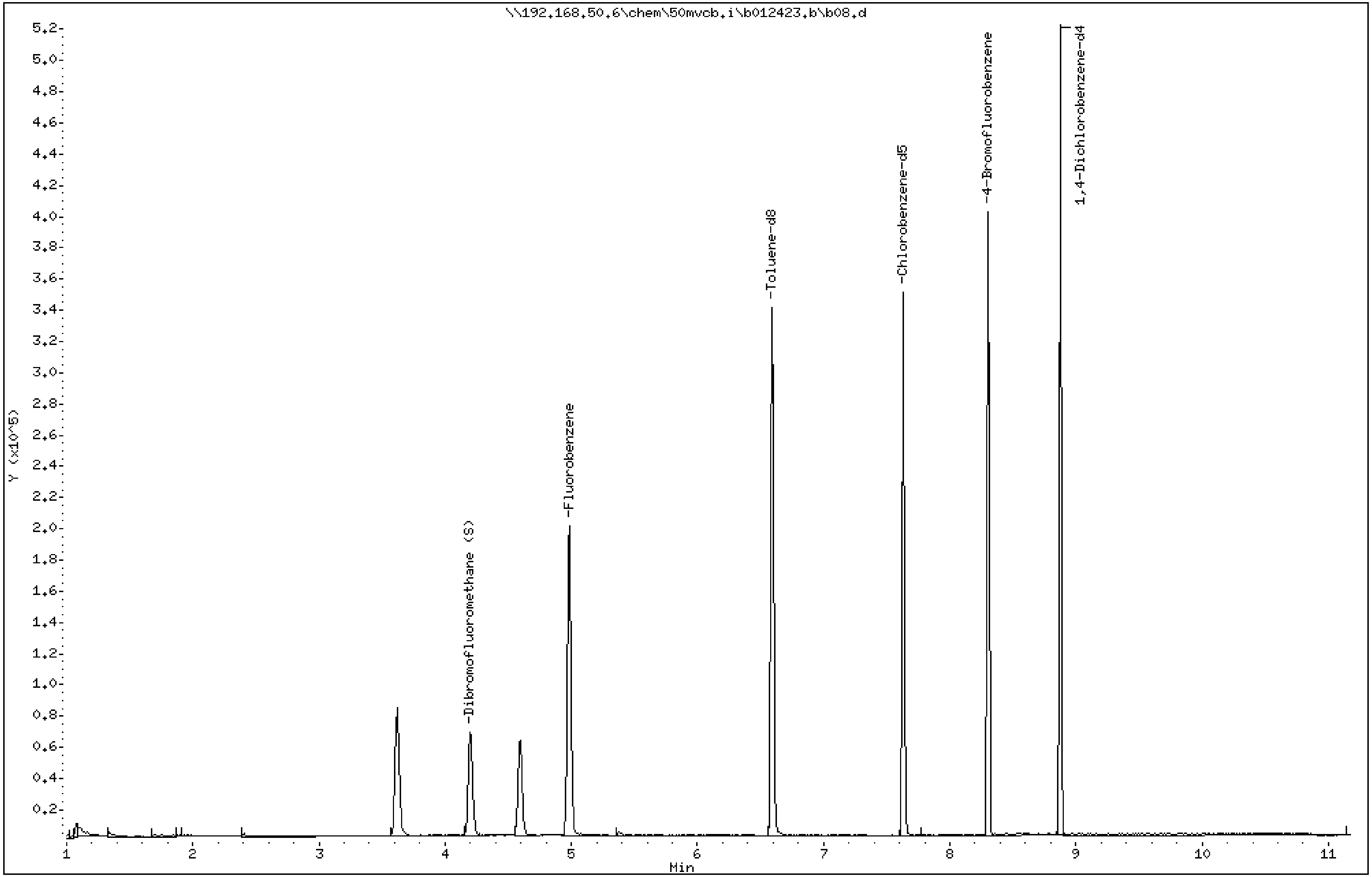
Sample Info: 50335726003x10

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b08.d

Page 5

Date : 24-JAN-2023 16:46

Client ID: LA2267

Instrument: 50mvcb.i

Sample Info: 50335726003x10

Purge Volume: 5.0

Operator: tkg

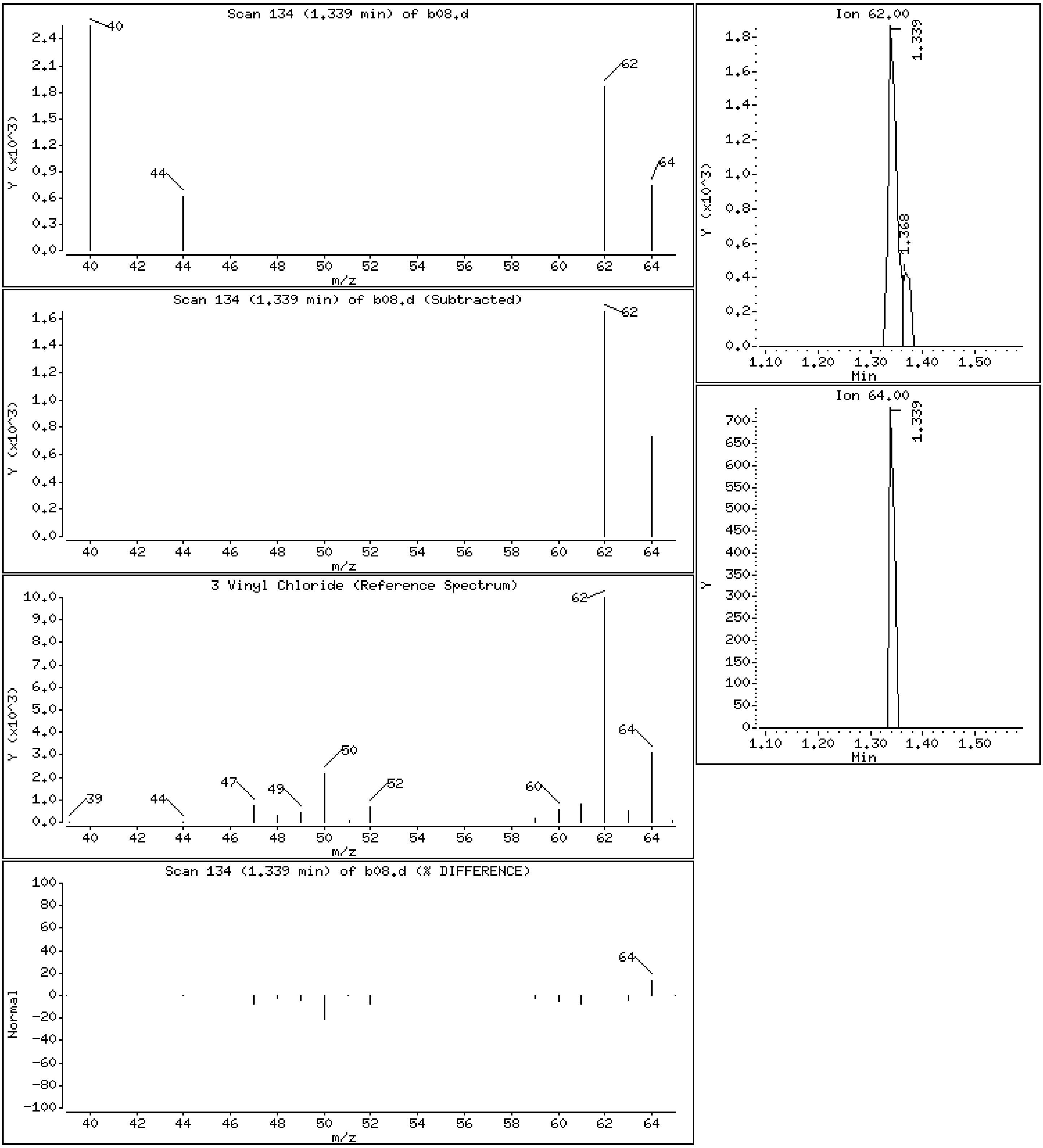
Column phase: DB-624

Column diameter: 0.18

3 Vinyl Chloride

Concentration: 14.2 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b08.d Page 6

Date : 24-JAN-2023 16:46

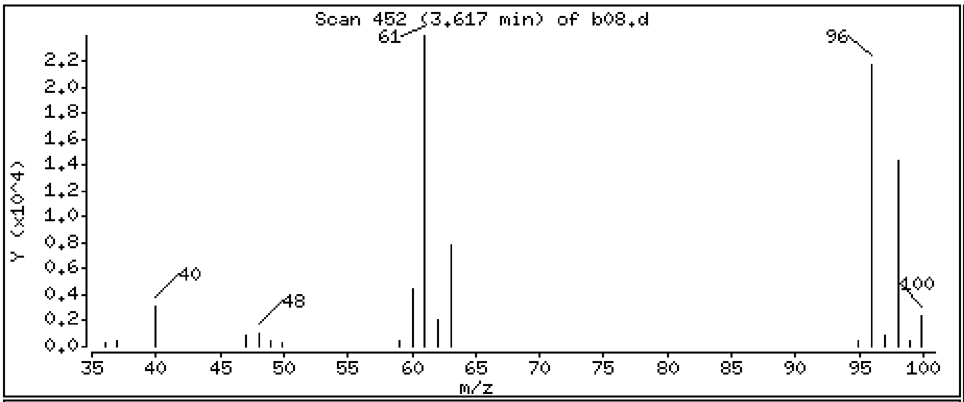
Client ID: LA2267 Instrument: 50mvcb.i

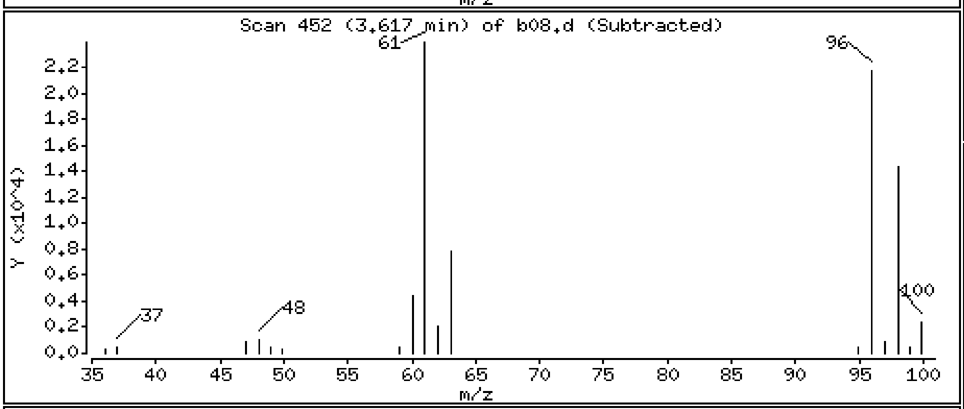
Sample Info: 50335726003x10

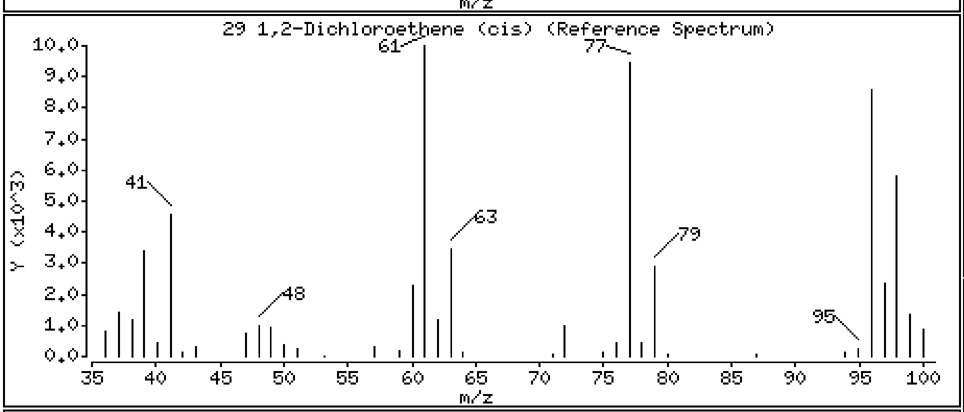
Purge Volume: 5.0 Operator: tkg

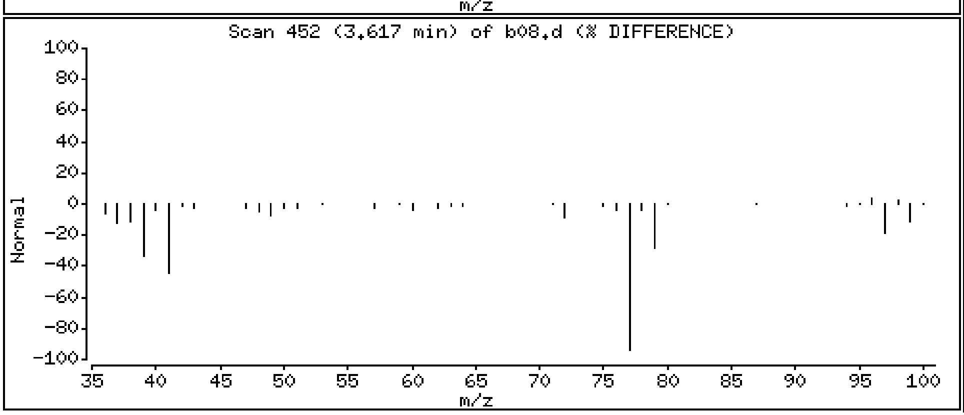
Column phase: DB-624 Column diameter: 0.18

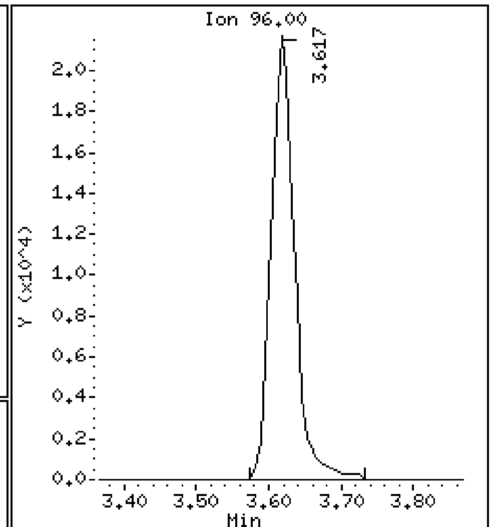
29 1,2-Dichloroethene (cis) Concentration: 342 ppb Review Code:

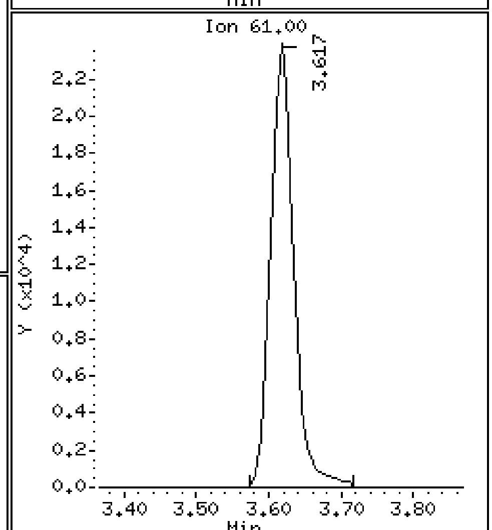


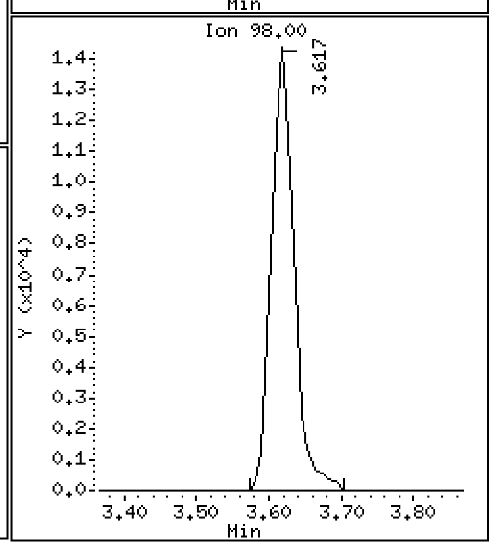












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Date : 24-JAN-2023 16:46

Client ID: LA2267

Instrument: 50mvcb.i

Sample Info: 50335726003x10

Purge Volume: 5.0

Operator: tkg

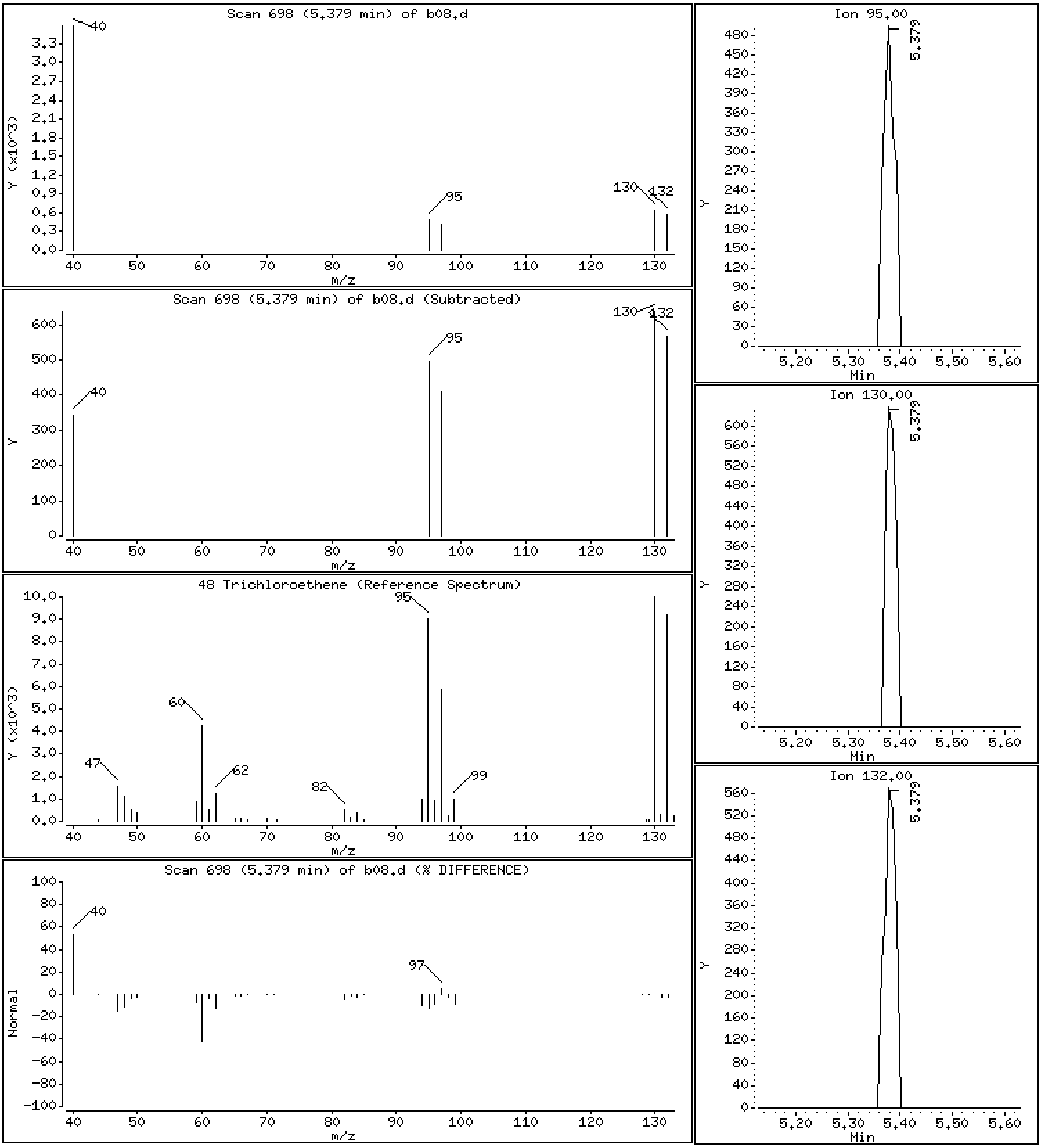
Column phase: DB-624

Column diameter: 0.18

48 Trichloroethene

Concentration: 5.56 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b08.d Page 8

Date : 24-JAN-2023 16:46

Client ID: LA2267 Instrument: 50mvcb.i

Sample Info: 50335726003x10

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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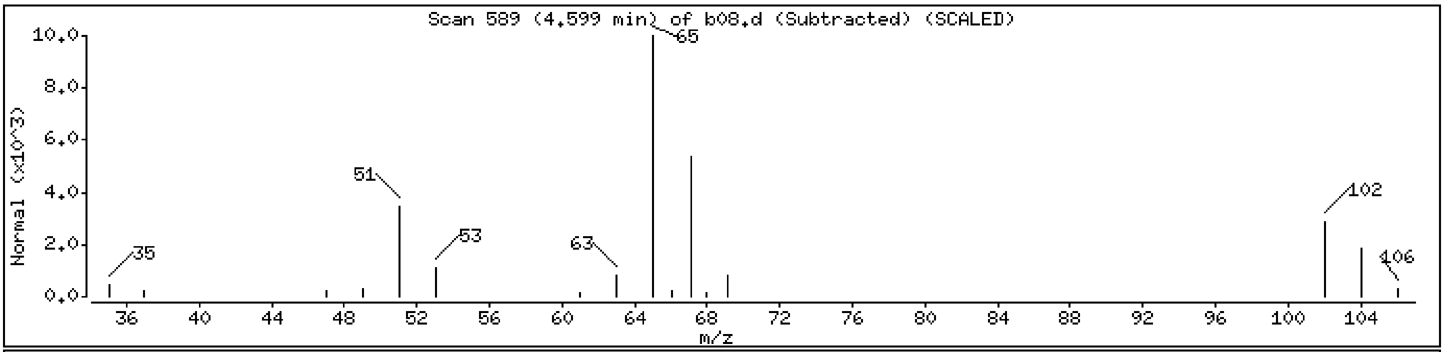


Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b/b08.d
Injection Date: 24-JAN-2023 16:46
Instrument: 50mvcb.i
Lab Sample ID: 50335726003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

LA2267

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/23/2023 16:03

Lab Sample ID: 50335726003

Date Analyzed: 01/23/2023 16:03

Lab File ID: A012323.B\A13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Instrument: 50MVDA 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
156-60-5	trans-1,2-Dichloroethene	1.4	
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U
563-58-6	1,1-Dichloropropene	ND	U

02/02/2023 6:30

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

LA2267

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 16:03
Lab Sample ID: 50335726003
Date Analyzed: 01/23/2023 16:03
Lab File ID: A012323.B\A13.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
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
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	8.5	
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	31.1	
1330-20-7	Xylene (Total)	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2267

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 16:03
Lab Sample ID: 50335726003
Date Analyzed: 01/23/2023 16:03
Lab File ID: A012323.B\A13.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	1.146	48.3	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a13.d
Lab Smp Id: 50335726003 Client Smp ID: LA2267
Inj Date : 23-JAN-2023 16:03
Operator : tkg Inst ID: 50mvda.i
Smp Info : 50335726003
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.396	1.396	(0.274)	87631	31.0717	31.1	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	1791	0.79027	0.790	
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	3652	1.39404	1.39	
22 n-Hexane	57	Compound Not Detected.						

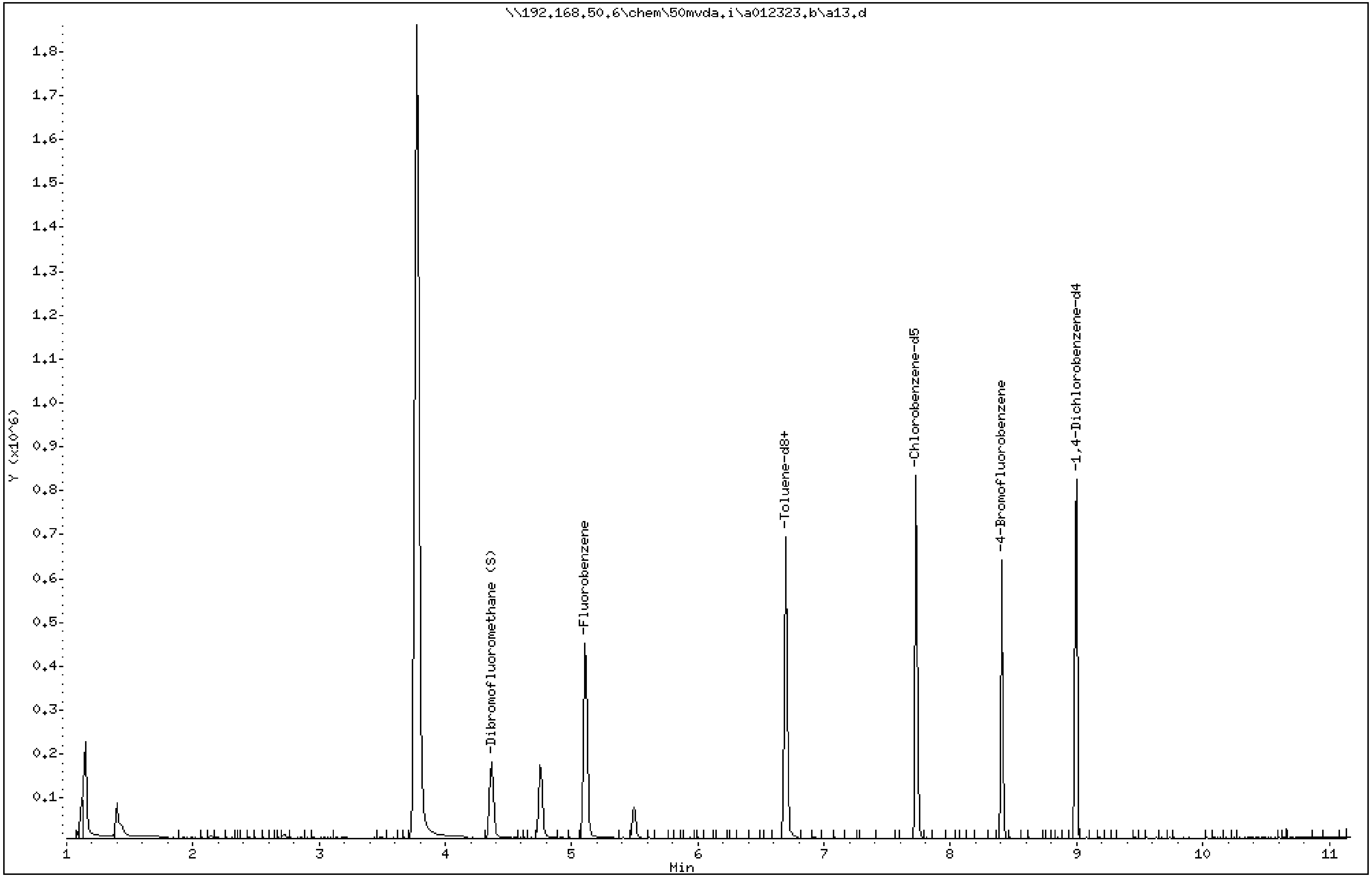
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.775	3.775	(0.739)	1041859	354.941	355	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	112568	52.6893	52.7	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	418246	50.0000		
	48 Trichloroethene	95	5.494	5.494	(1.076)	20557	8.46556	8.46	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.697	6.697	(0.867)	393639	47.7437	47.7	
	59 Toluene	91	6.747	6.747	(0.873)	817	0.07137	0.0714(Q)	
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	314333	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	125785	47.7328	47.7	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	145811	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a13.d
Date : 23-JAN-2023 16:03
Client ID: LA2267 Instrument: 50mvda.i
Sample Info: 50335726003
Purge Volume: 5.0 Operator: tkg
Column phase: DB-624 Column diameter: 0.18



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Date : 23-JAN-2023 16:03

Client ID: LA2267

Instrument: 50mvda.i

Sample Info: 50335726003

Purge Volume: 5.0

Operator: tkg

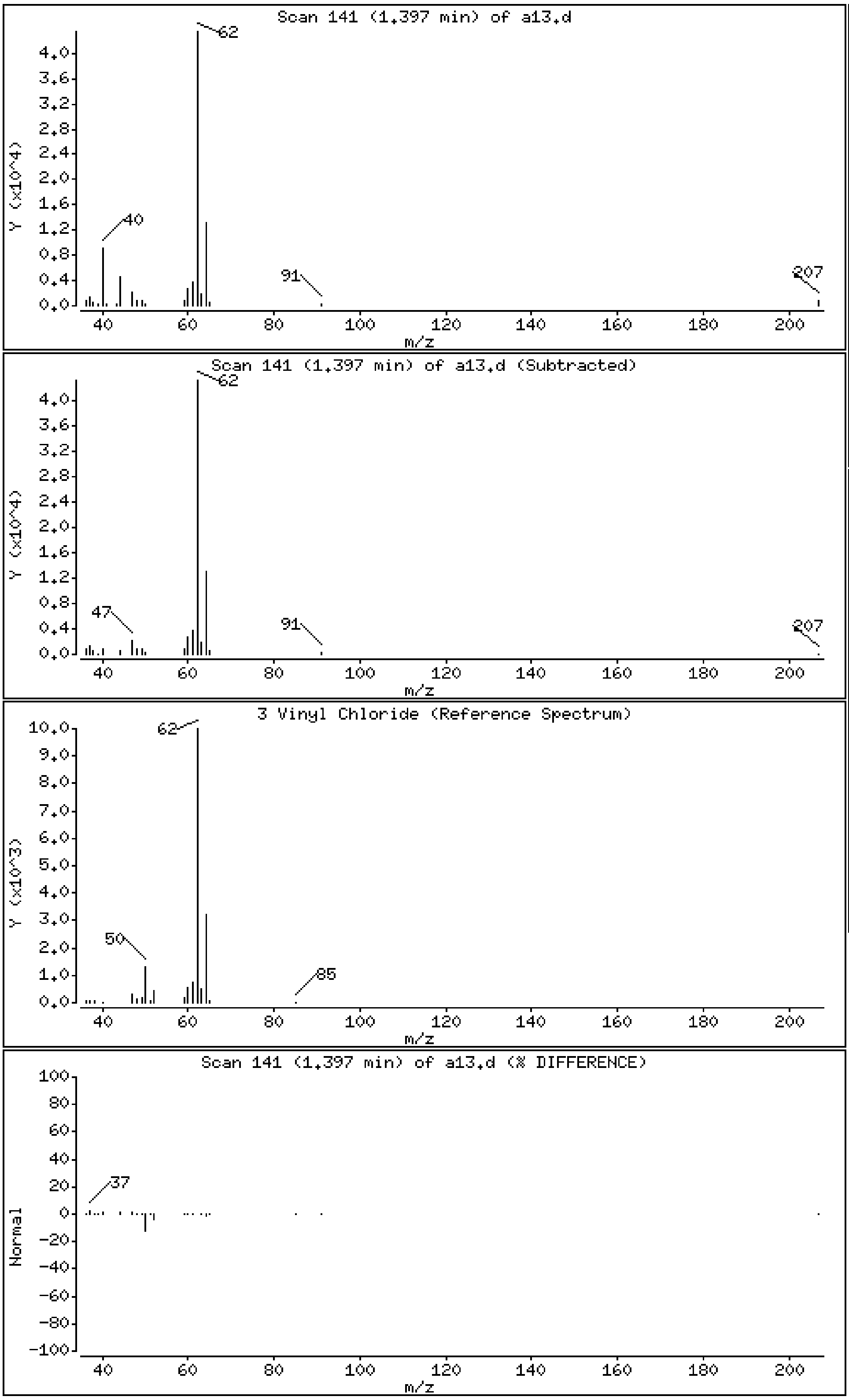
Column phase: DB-624

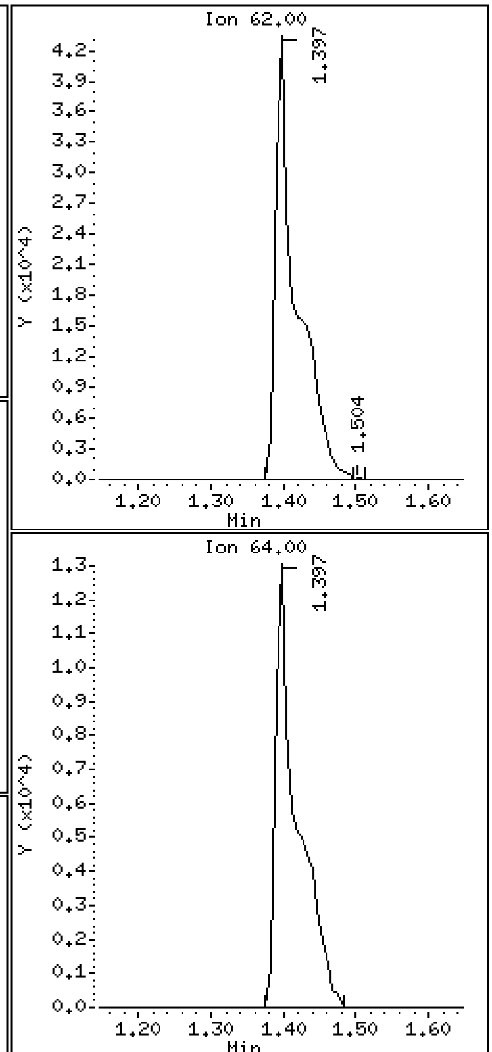
Column diameter: 0.18

3 Vinyl Chloride

Concentration: 31.1 ppb

Review Code:





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Date : 23-JAN-2023 16:03

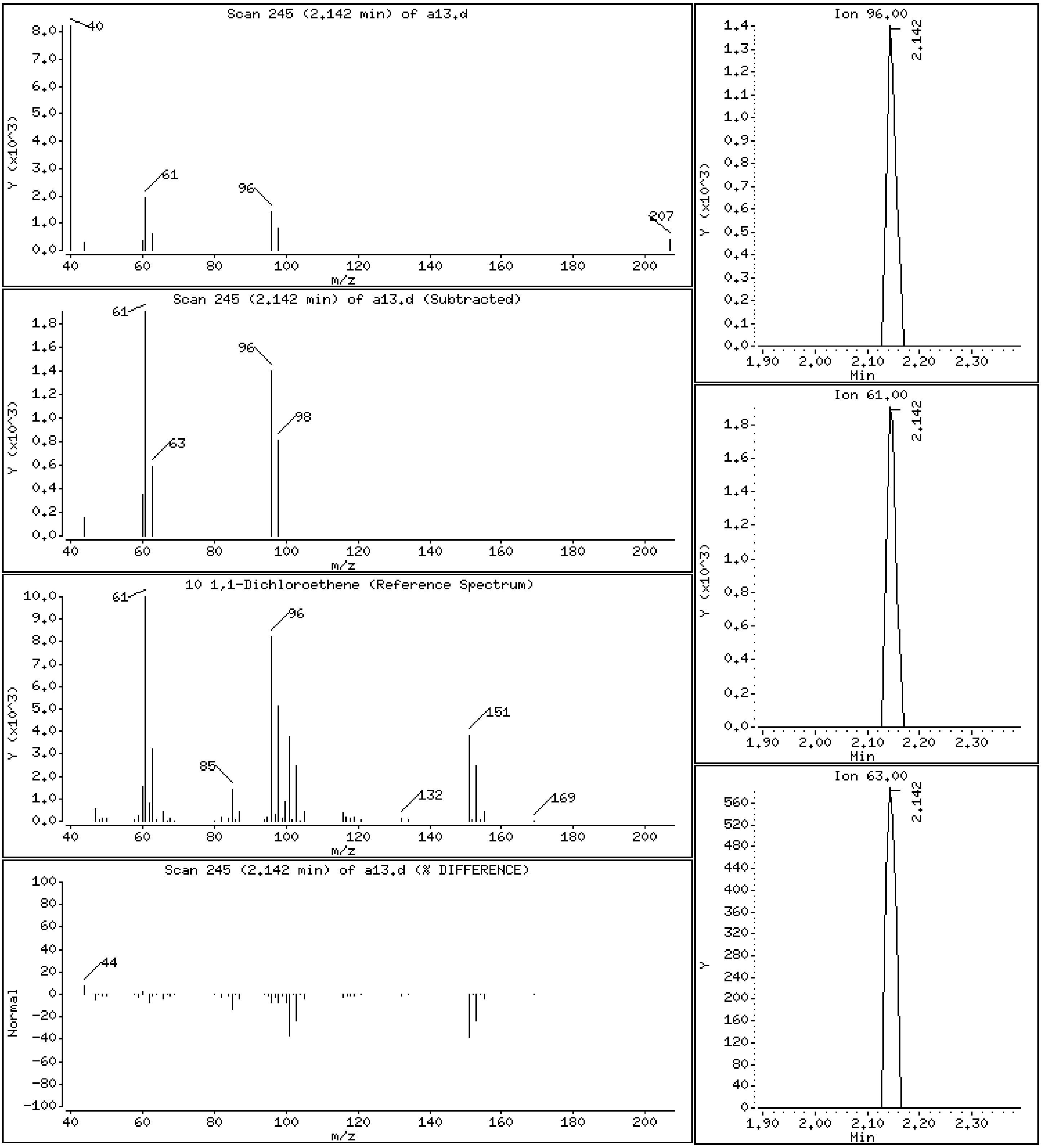
Client ID: LA2267 Instrument: 50mvda.i

Sample Info: 50335726003

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

10 1,1-Dichloroethene Concentration: 0.790 ppb Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a13.d

Page 7

Date : 23-JAN-2023 16:03

Client ID: LA2267

Instrument: 50mvda.i

Sample Info: 50335726003

Purge Volume: 5.0

Operator: tkg

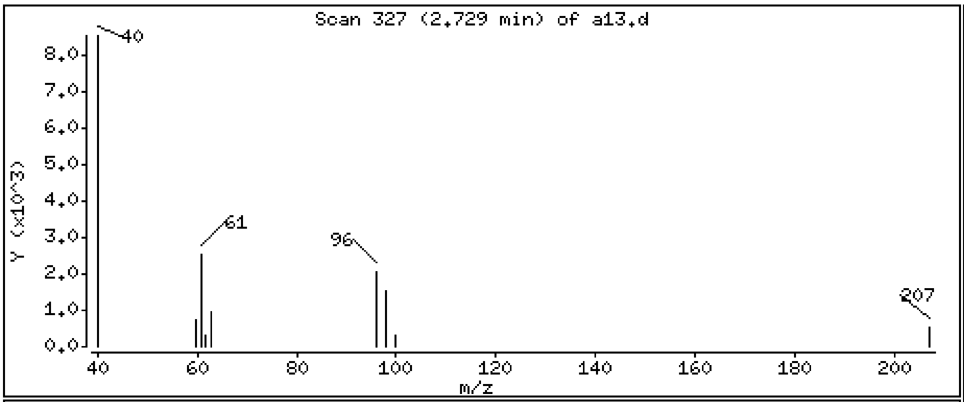
Column phase: DB-624

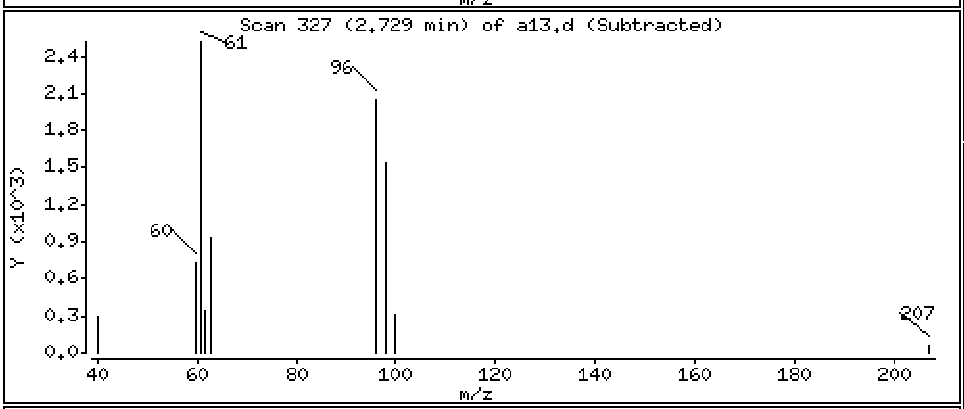
Column diameter: 0.18

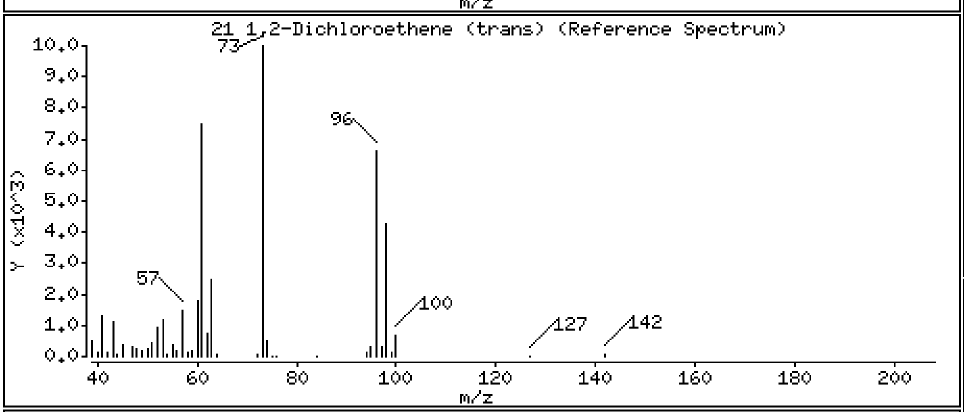
21 1,2-Dichloroethene (trans)

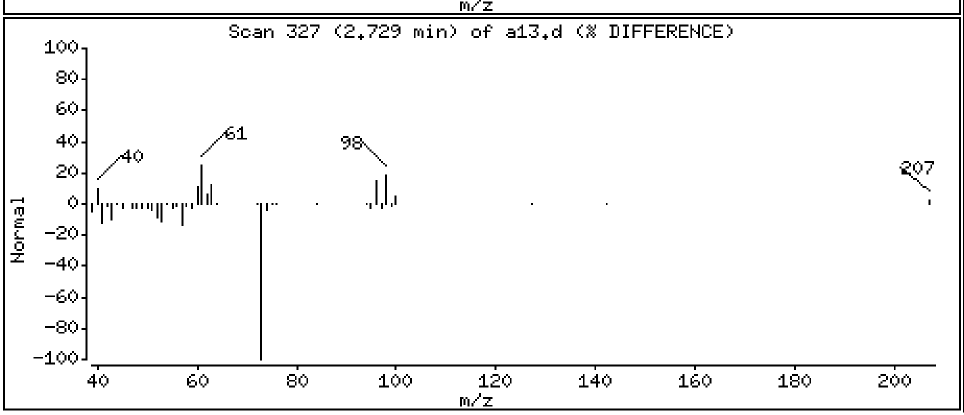
Concentration: 1.39 ppb

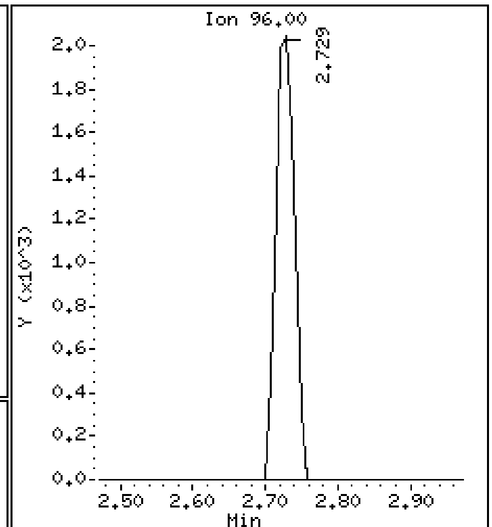
Review Code:

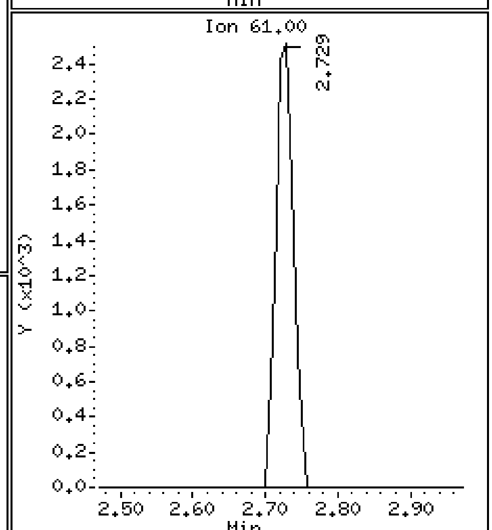


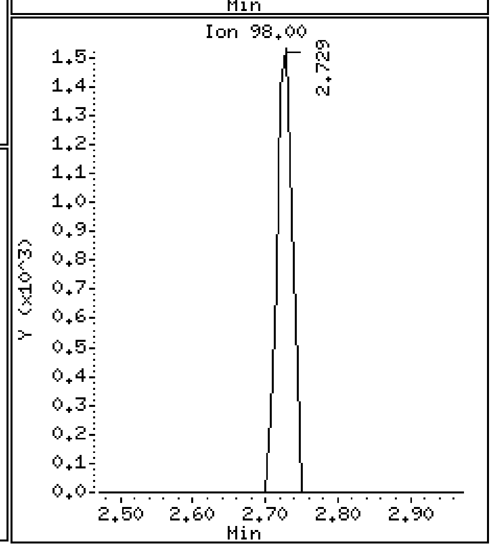












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a13.d Page 8

Date : 23-JAN-2023 16:03

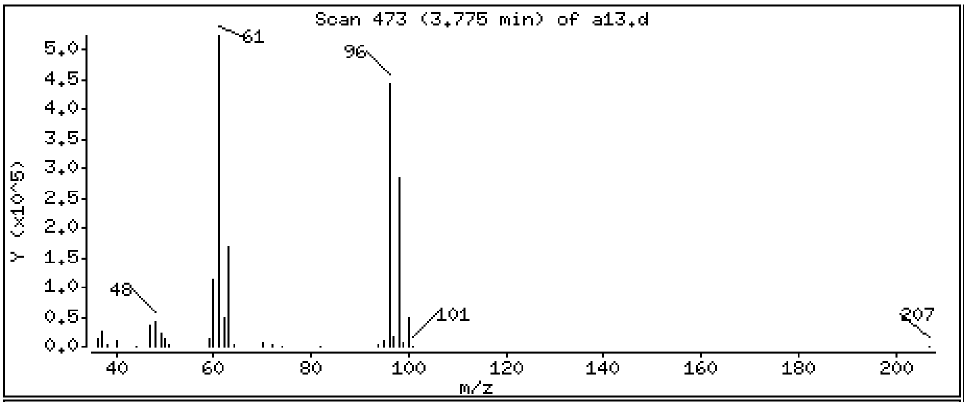
Client ID: LA2267 Instrument: 50mvda.i

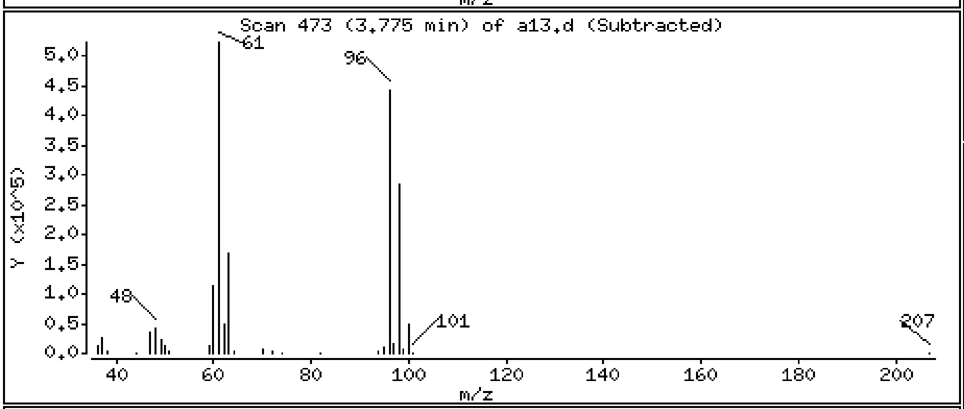
Sample Info: 50335726003

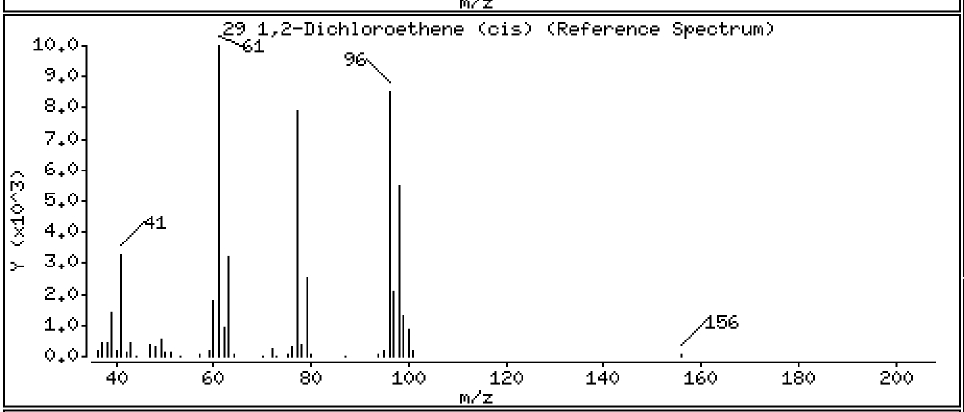
Purge Volume: 5.0 Operator: tkg

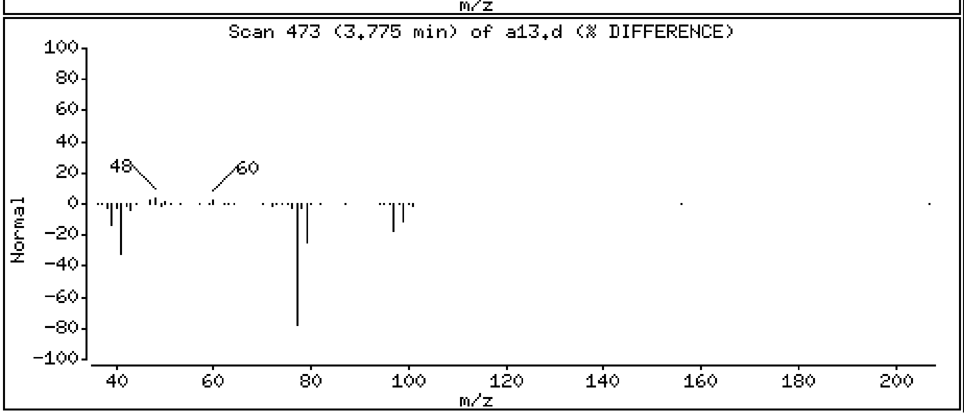
Column phase: DB-624 Column diameter: 0.18

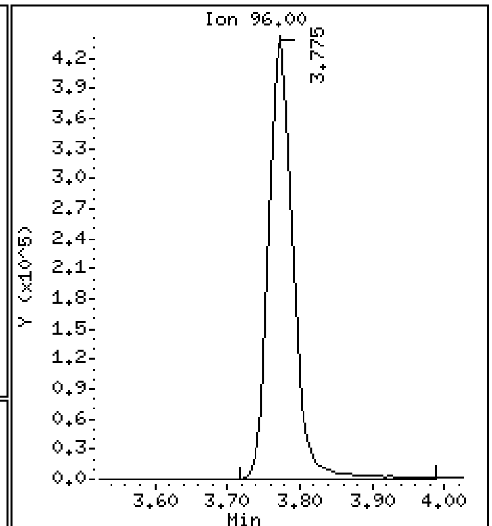
29 1,2-Dichloroethene (cis) Concentration: 355 ppb Review Code:

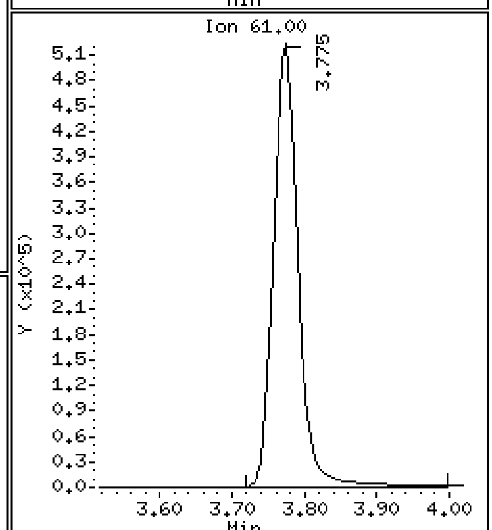


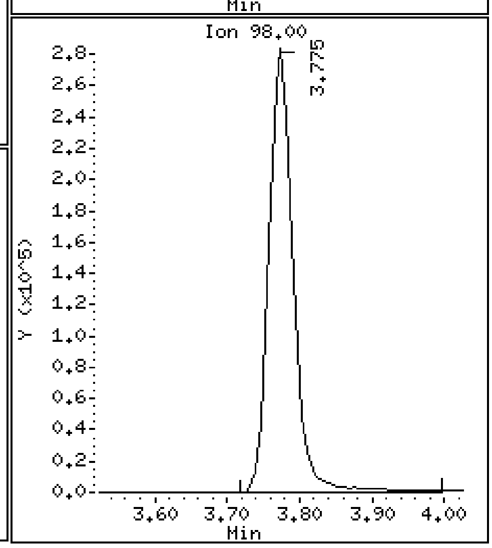












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Date : 23-JAN-2023 16:03

Client ID: LA2267

Instrument: 50mvda.i

Sample Info: 50335726003

Purge Volume: 5.0

Operator: tkg

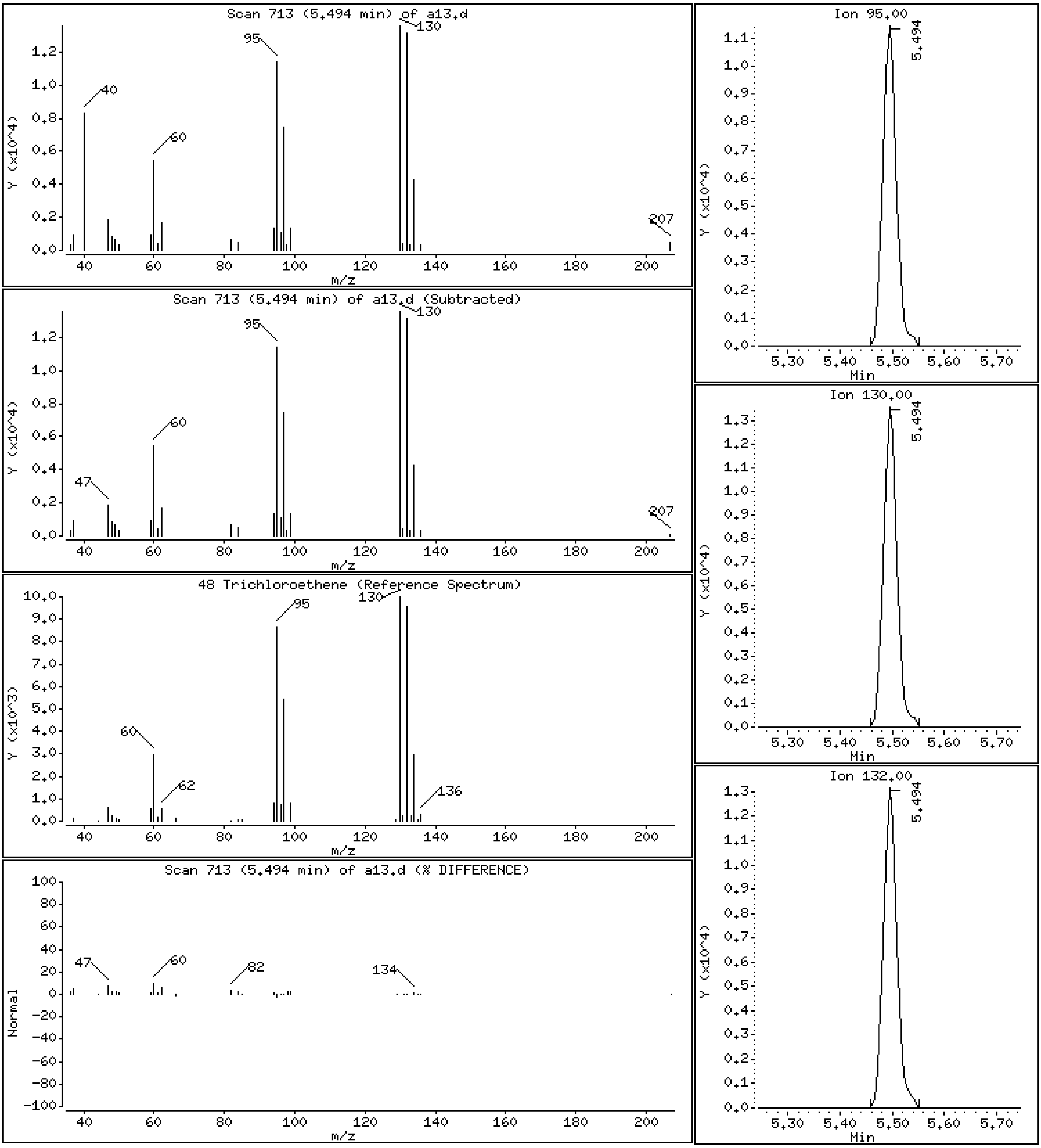
Column phase: DB-624

Column diameter: 0.18

48 Trichloroethene

Concentration: 8.46 ppb

Review Code:



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Date : 23-JAN-2023 16:03

Client ID: LA2267

Instrument: 50mvda.i

Sample Info: 50335726003

Purge Volume: 5.0

Operator: tkg

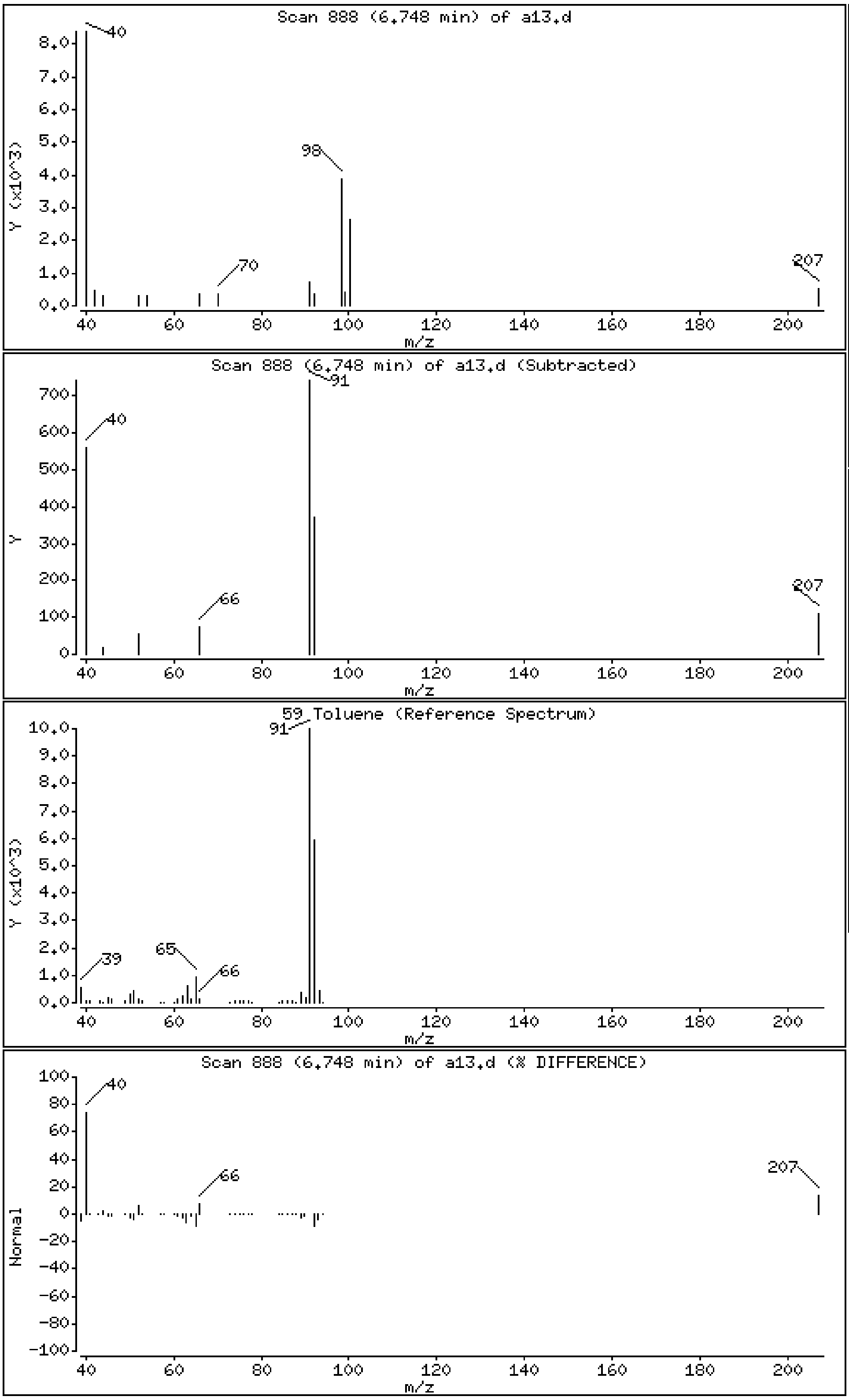
Column phase: DB-624

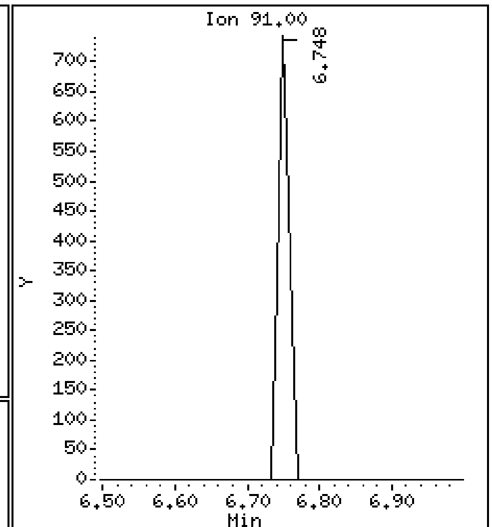
Column diameter: 0.18

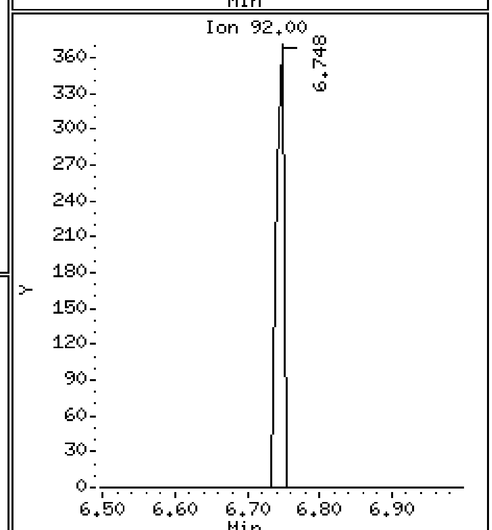
59 Toluene

Concentration: 0.0714 ppb

Review Code:







Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a13.d

Date : 23-JAN-2023 16:03

Client ID: LA2267

Instrument: 50mvda.i

Sample Info: 50335726003

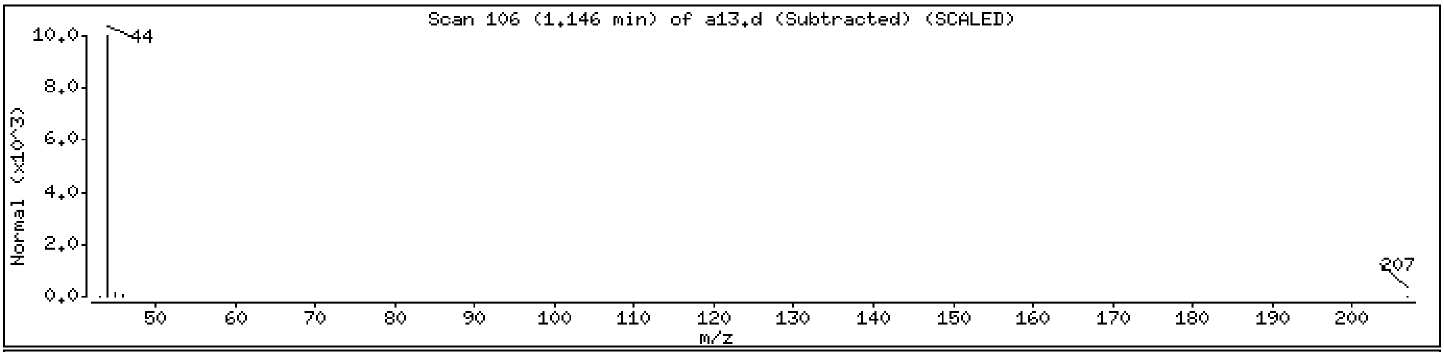
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a13.d
Injection Date: 23-JAN-2023 16:03
Instrument: 50mvda.i
Lab Sample ID: 50335726003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2268

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/24/2023 17:19

Lab Sample ID: 50335726004

Date Analyzed: 01/24/2023 17:19

Lab File ID: B012423.B\B09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10

Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	1270	

02/02/2023 6:30

SAMPLE NO.

LA2268

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/24/2023 17:19
Lab Sample ID: 50335726004
Date Analyzed: 01/24/2023 17:19
Lab File ID: B012423.B\B09.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10
Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	4.592	437	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b09.d
Lab Smp Id: 50335726004 Client Smp ID: LA2268
Inj Date : 24-JAN-2023 17:19
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 50335726004x10
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	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)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.339	1.339	(0.269)	5028	4.23428	42.3	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	1073	1.03794	10.4	
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	145678	127.223	1270	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	38987	52.6642	52.7	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.985	4.978	(1.000)	162972	50.0000	(Q)	
	48 Trichloroethene	95	Compound Not Detected.						
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.590	6.590	(0.863)	161266	47.2454	47.2	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	131641	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.302	(1.087)	68125	54.9441	54.9	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.875	8.875	(1.000)	80185	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b09.d

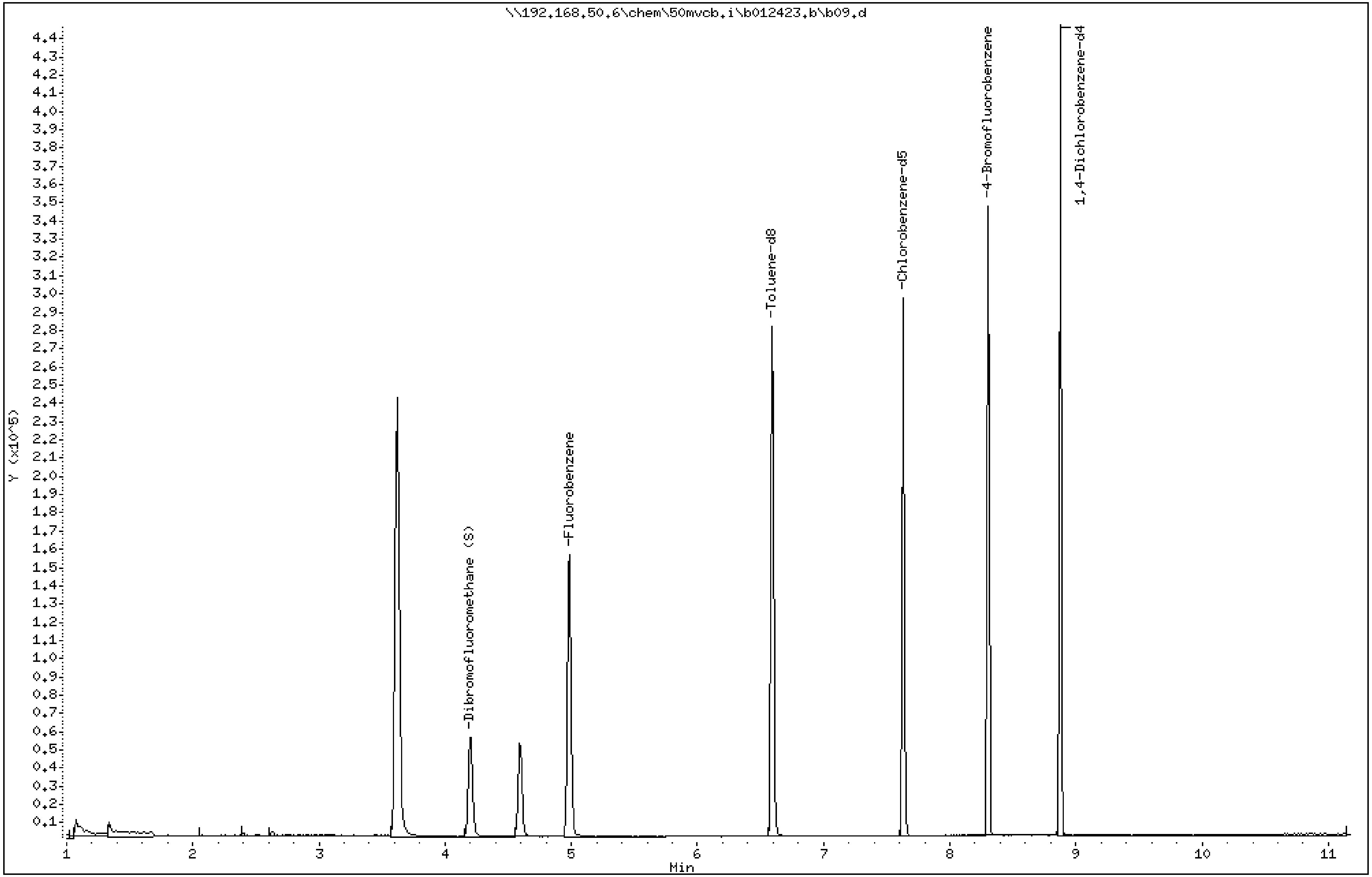
Date : 24-JAN-2023 17:19

Client ID: LA2268 Instrument: 50mvcb.i

Sample Info: 50335726004x10

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18



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Date : 24-JAN-2023 17:19

Client ID: LA2268

Instrument: 50mvcb.i

Sample Info: 50335726004x10

Purge Volume: 5.0

Operator: tkg

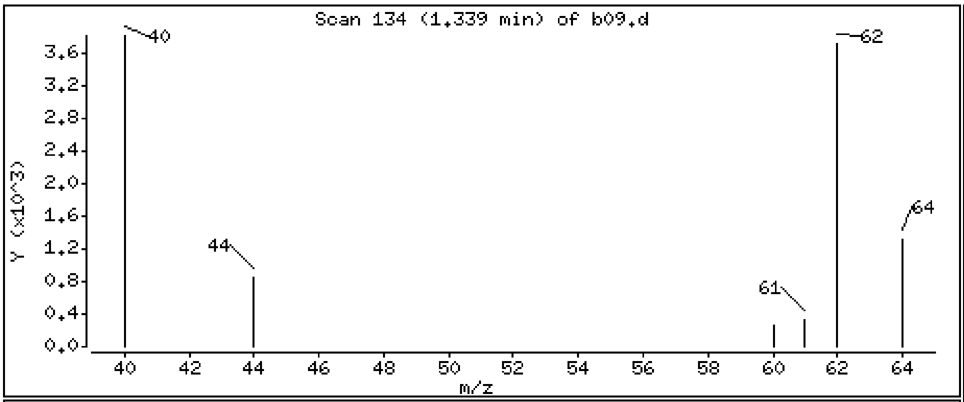
Column phase: DB-624

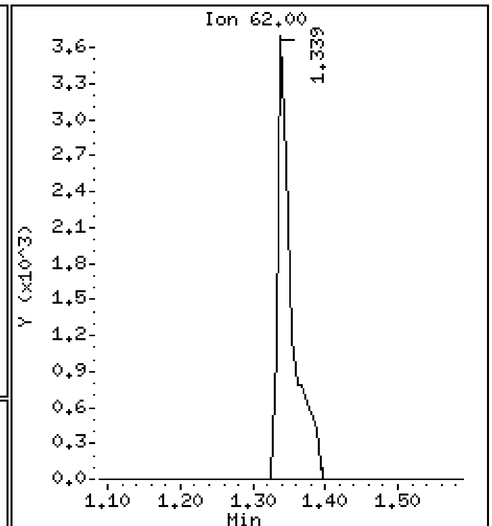
Column diameter: 0.18

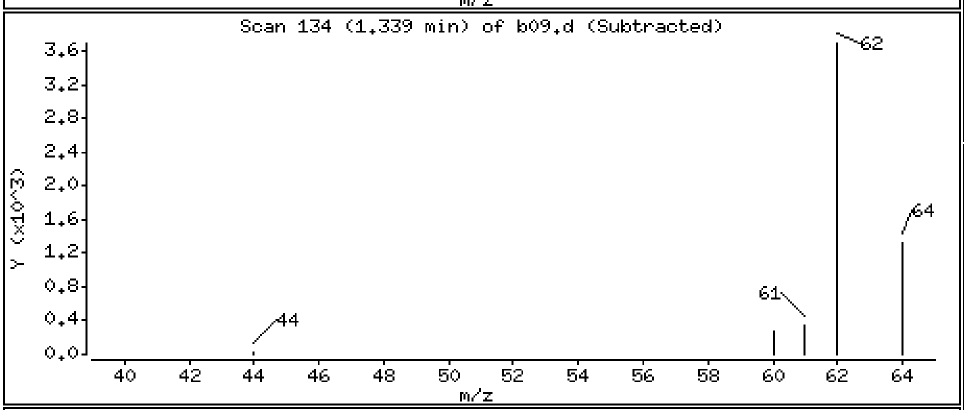
3 Vinyl Chloride

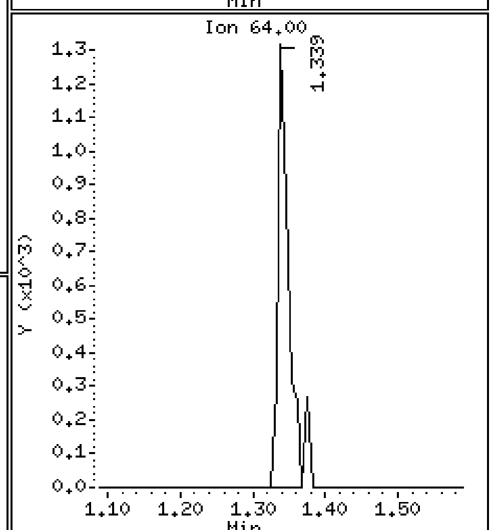
Concentration: 42.3 ppb

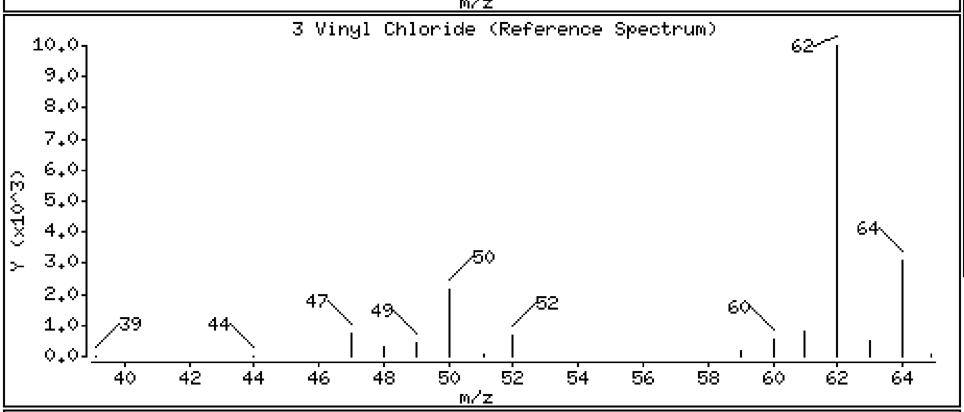
Review Code:

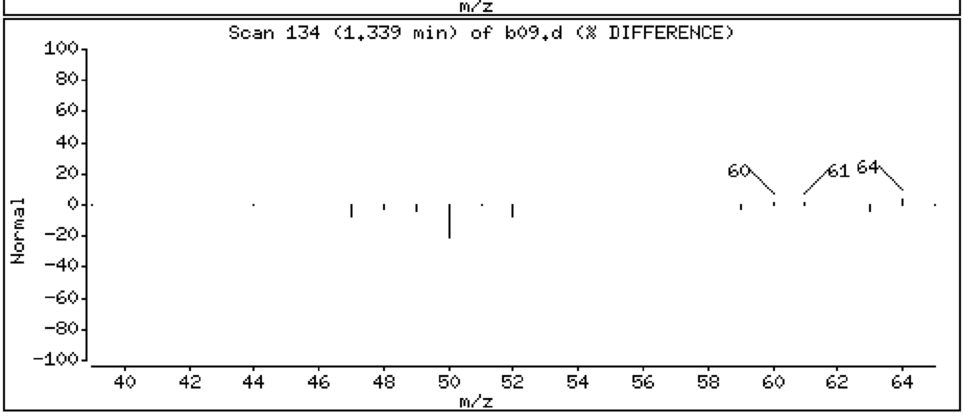












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b09.d

Date : 24-JAN-2023 17:19

Client ID: LA2268

Instrument: 50mvcb.i

Sample Info: 50335726004x10

Purge Volume: 5.0

Operator: tkg

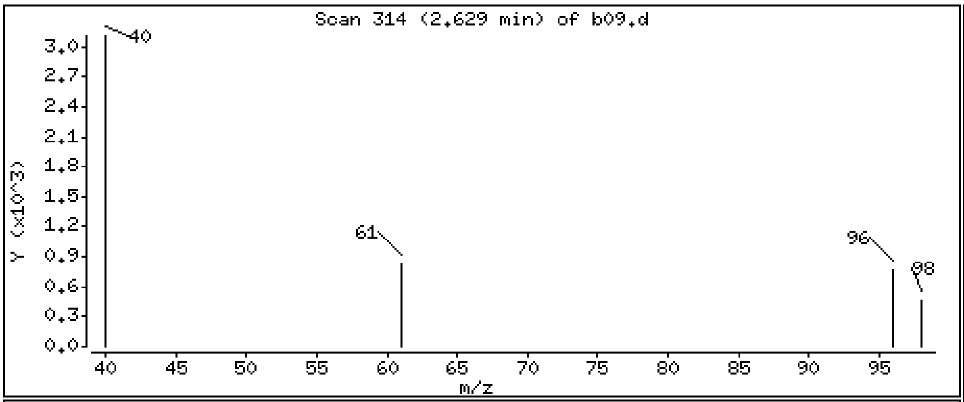
Column phase: DB-624

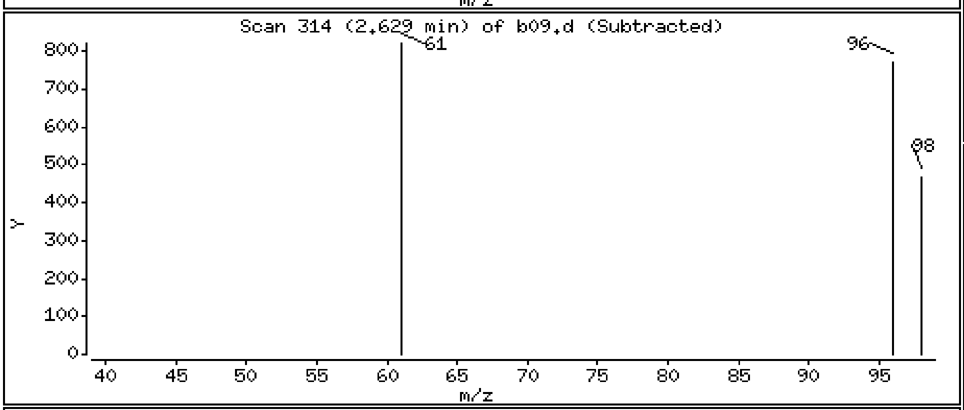
Column diameter: 0.18

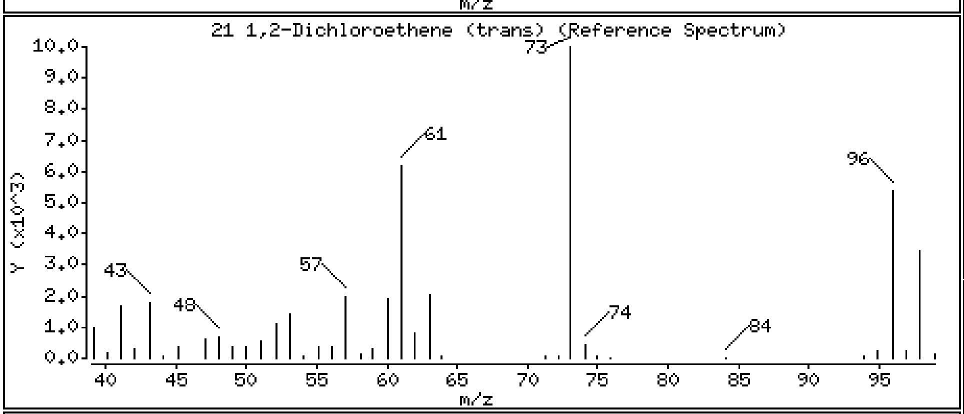
21 1,2-Dichloroethene (trans)

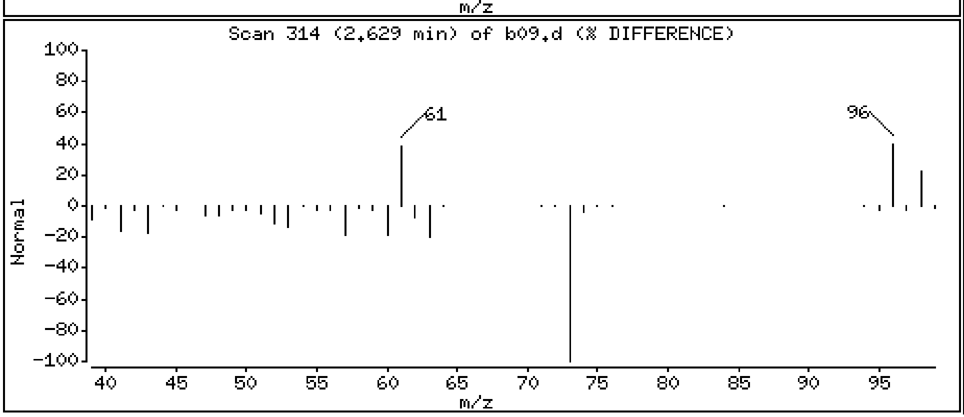
Concentration: 10.4 ppb

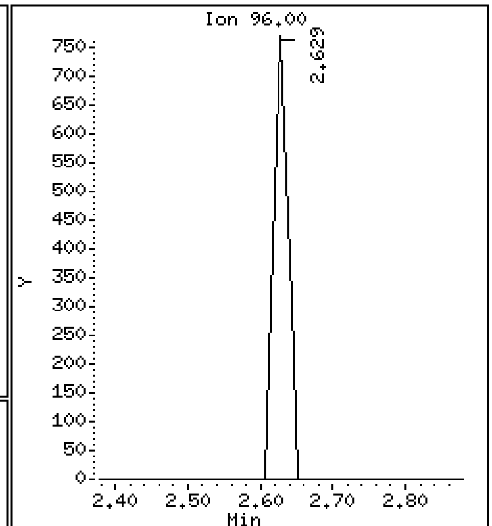
Review Code:

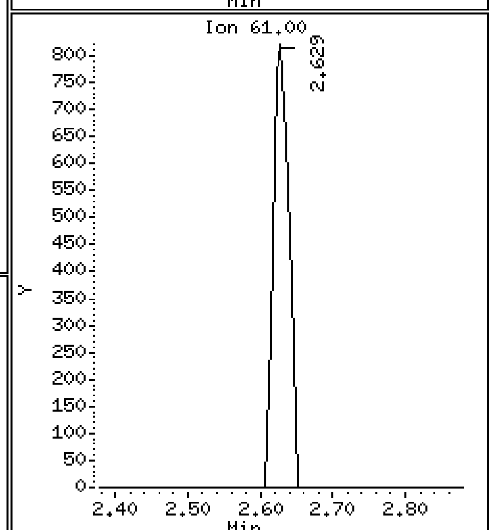


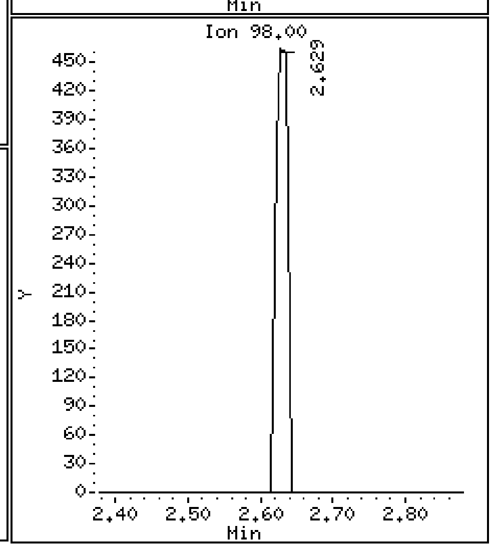












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b09.d Page 7

Date : 24-JAN-2023 17:19

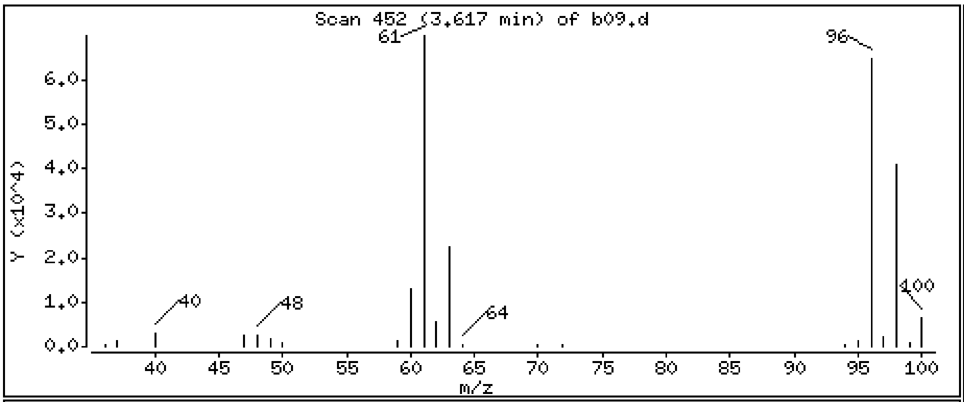
Client ID: LA2268 Instrument: 50mvcb.i

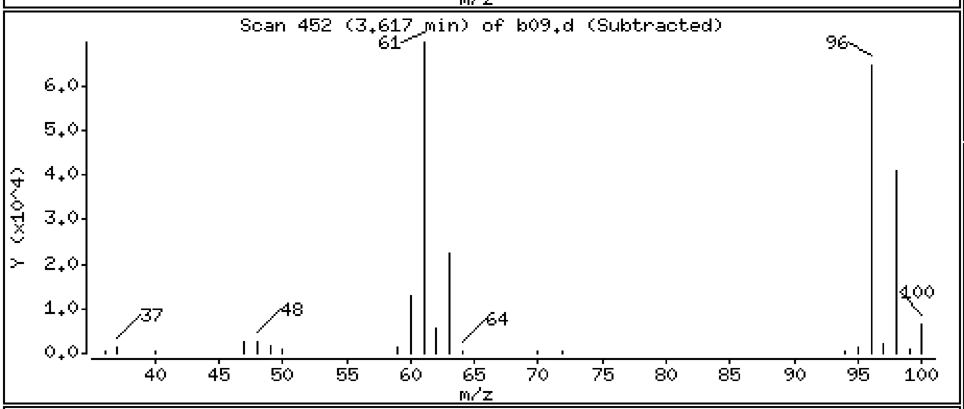
Sample Info: 50335726004x10

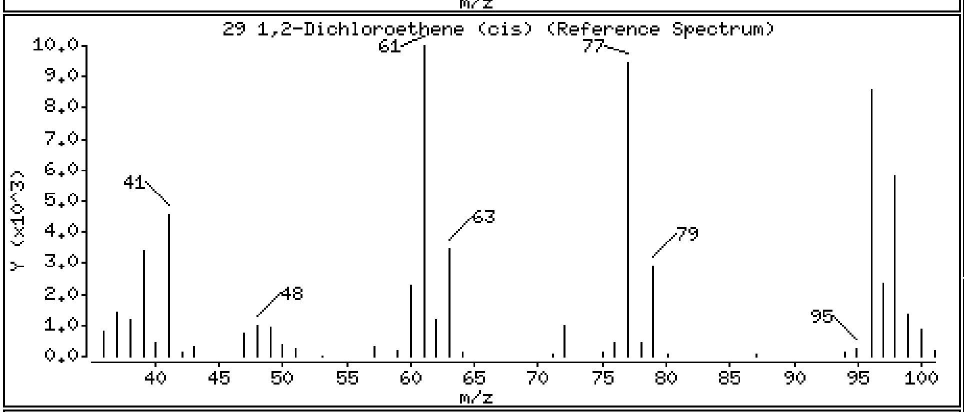
Purge Volume: 5.0 Operator: tkg

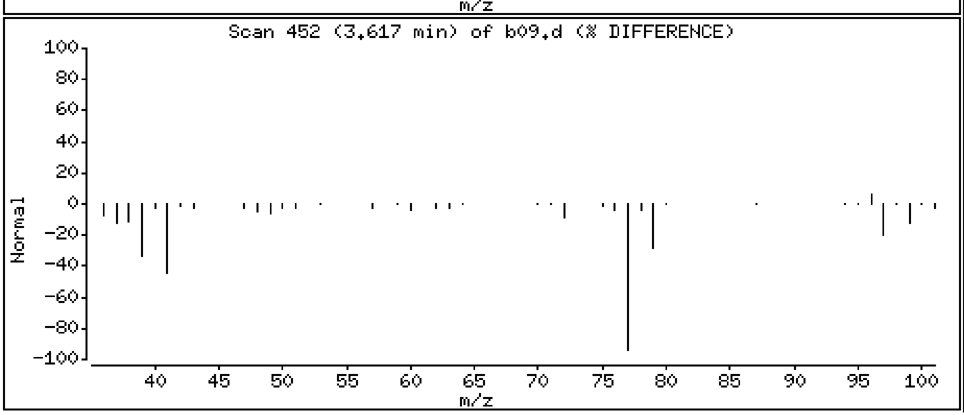
Column phase: DB-624 Column diameter: 0.18

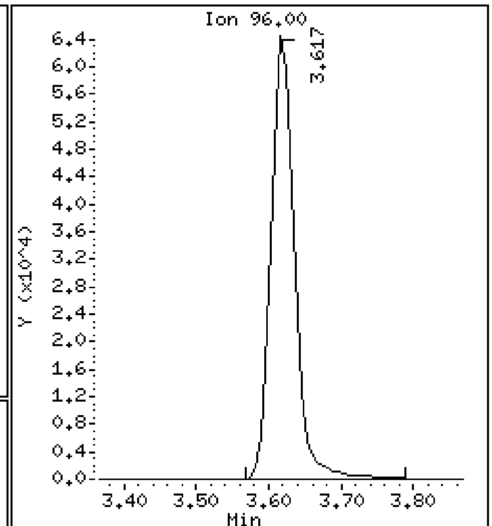
29 1,2-Dichloroethene (cis) Concentration: 1270 ppb Review Code:

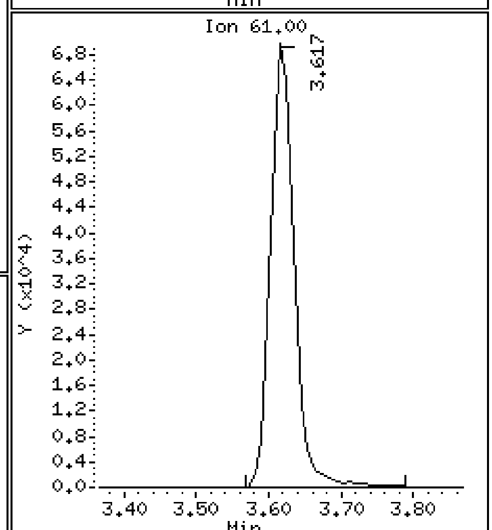


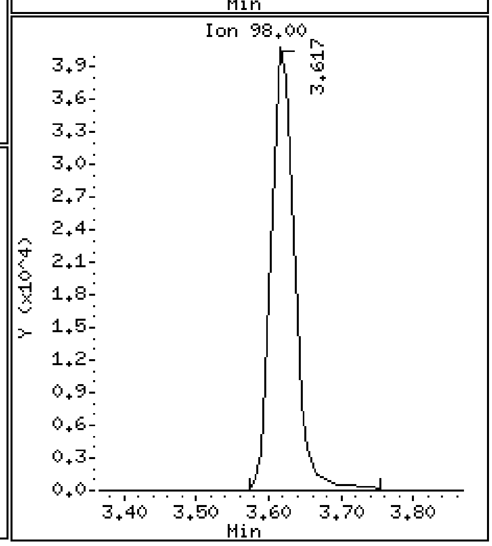












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b09.d

Date : 24-JAN-2023 17:19

Client ID: LA2268

Instrument: 50mvcb.i

Sample Info: 50335726004x10

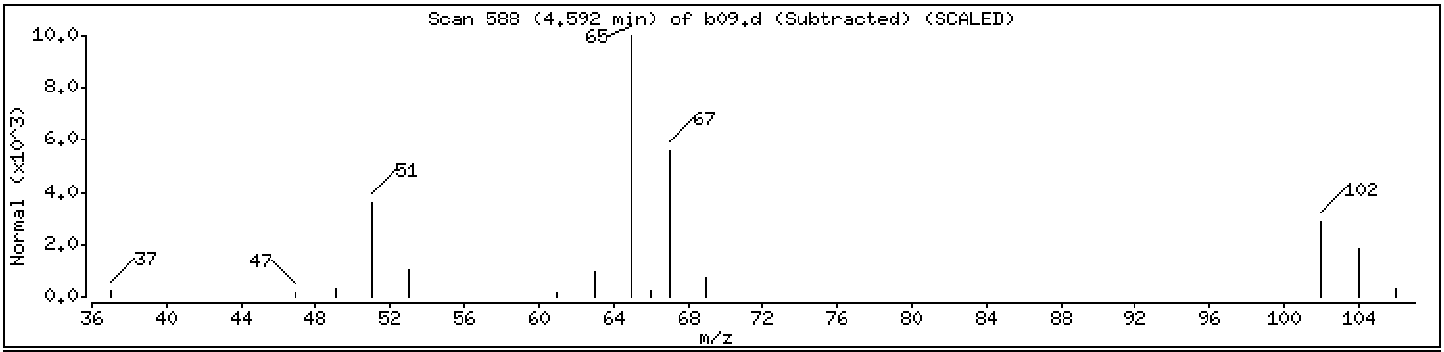
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b/b09.d
Injection Date: 24-JAN-2023 17:19
Instrument: 50mvcb.i
Lab Sample ID: 50335726004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2268

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana | Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35 | Matrix: Water | SDG No.: 50335726
Date Extracted: 01/23/2023 19:10 | Lab Sample ID: 50335726004
Date Analyzed: 01/23/2023 19:10 | Lab File ID: A012323.B\A20.D
Initial wt/vol: 5 mL | Final wt/vol: 5 mL | Dilution: 1 | Instrument: 50MVDA | 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	5.5	
156-60-5	trans-1,2-Dichloroethene	12.0	
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U
563-58-6	1,1-Dichloropropene	ND	U

02/02/2023 6:30

SAMPLE NO.

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

LA2268

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 19:10
Lab Sample ID: 50335726004
Date Analyzed: 01/23/2023 19:10
Lab File ID: A012323.B\A20.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
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
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	53.0	
1330-20-7	Xylene (Total)	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2268

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 19:10
Lab Sample ID: 50335726004
Date Analyzed: 01/23/2023 19:10
Lab File ID: A012323.B\A20.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	1.146	64.3	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d
Lab Smp Id: 50335726004 Client Smp ID: LA2268
Inj Date : 23-JAN-2023 19:10
Operator : tkg Inst ID: 50mvda.i
Smp Info : 50335726004
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.396	1.396	(0.273)	139585	52.9593	53.0(M)	LT
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	11656	5.50336	5.50	
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	29446	12.0273	12.0	
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.774	3.775	(0.739)	3199892	1166.48	1170	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	105724	52.9514	53.0	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	390873	50.0000		
	48 Trichloroethene	95	5.494	5.494	(1.076)	1718	0.75703	0.757	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.690	6.697	(0.866)	366224	47.4443	47.4	
	59 Toluene	91	6.747	6.747	(0.873)	924	0.08622	0.0862	
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	294287	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	117504	47.6277	47.6	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	137766	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

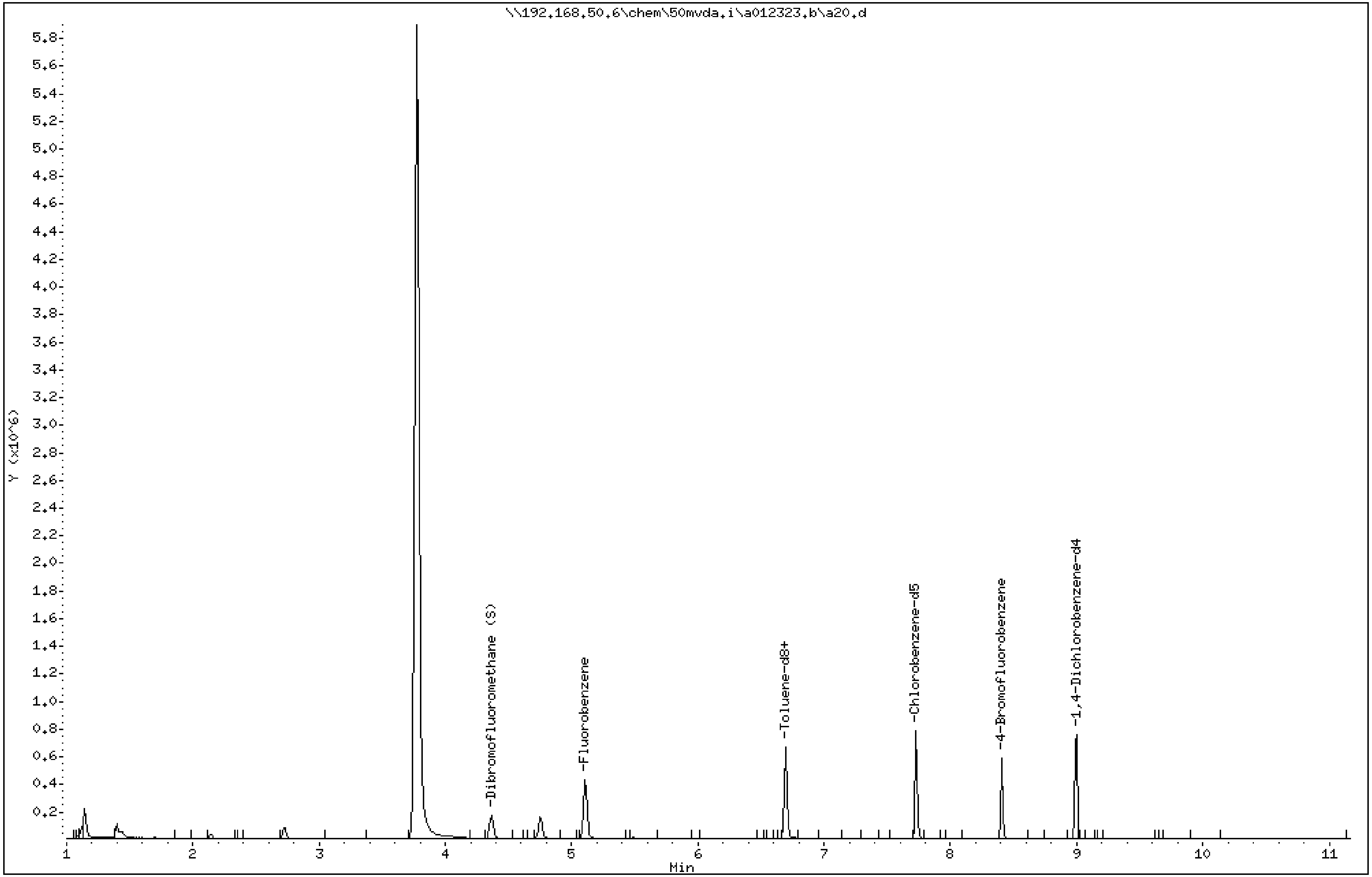
QC Flag Legend

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).
:

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d
Date : 23-JAN-2023 19:10
Client ID: LA2268 Instrument: 50mvda.i
Sample Info: 50335726004
Purge Volume: 5.0 Operator: tkg
Column phase: DB-624 Column diameter: 0.18



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Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

Purge Volume: 5.0

Operator: tkg

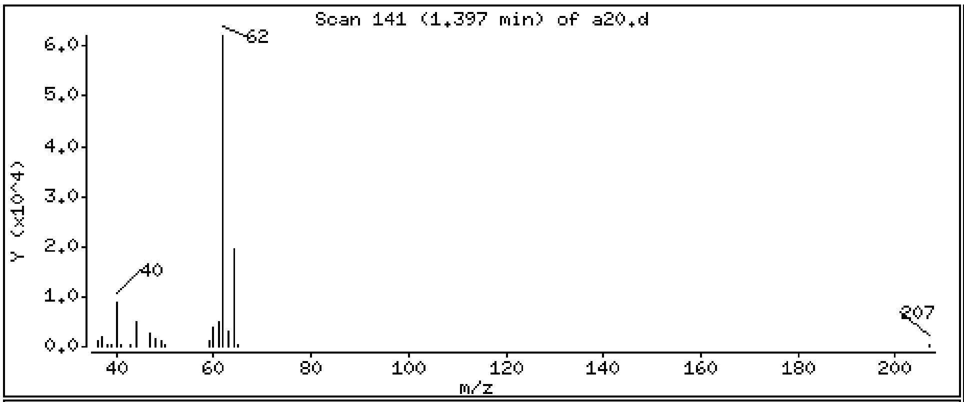
Column phase: DB-624

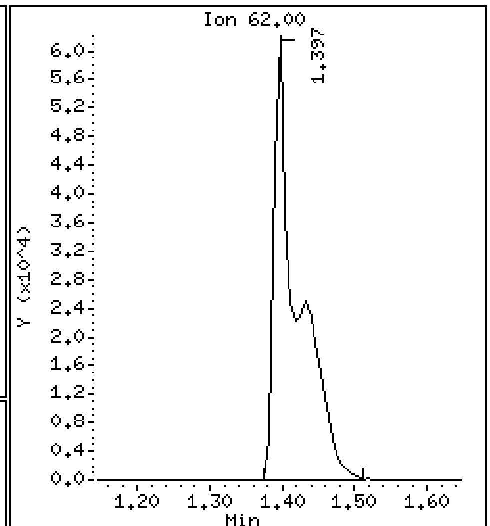
Column diameter: 0.18

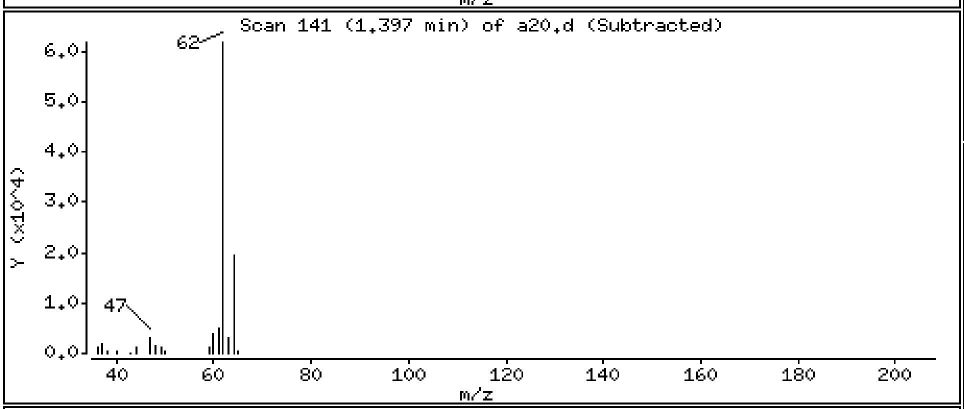
3 Vinyl Chloride

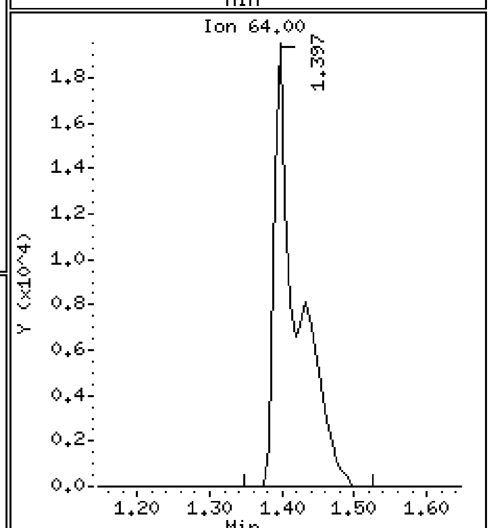
Concentration: 53.0 ppb

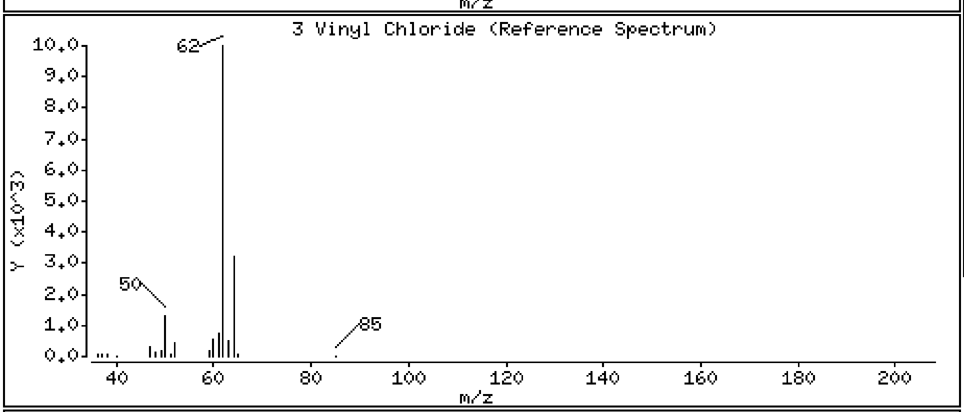
Review Code: LT

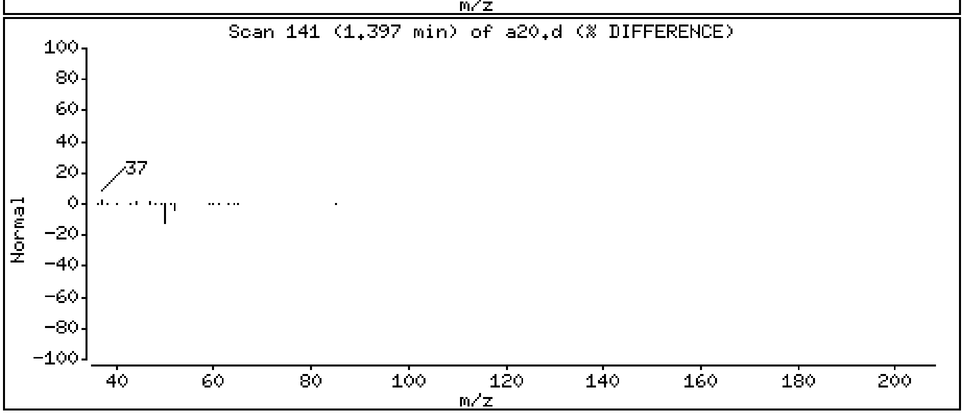












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d

Page 6

Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

Purge Volume: 5.0

Operator: tkg

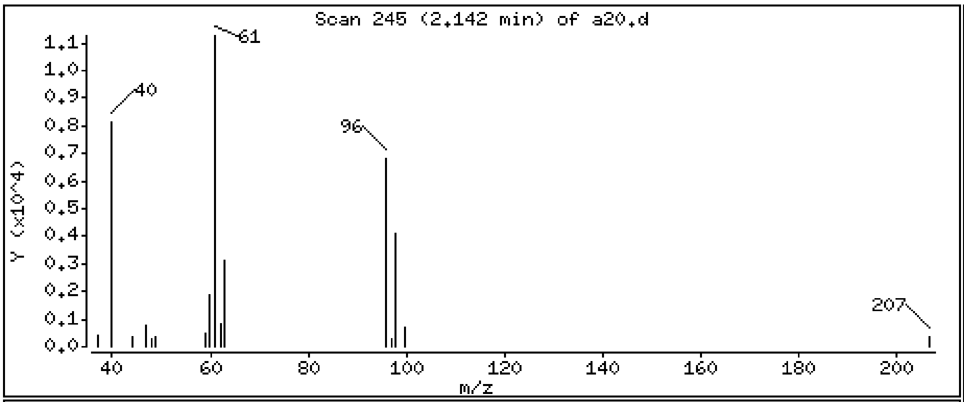
Column phase: DB-624

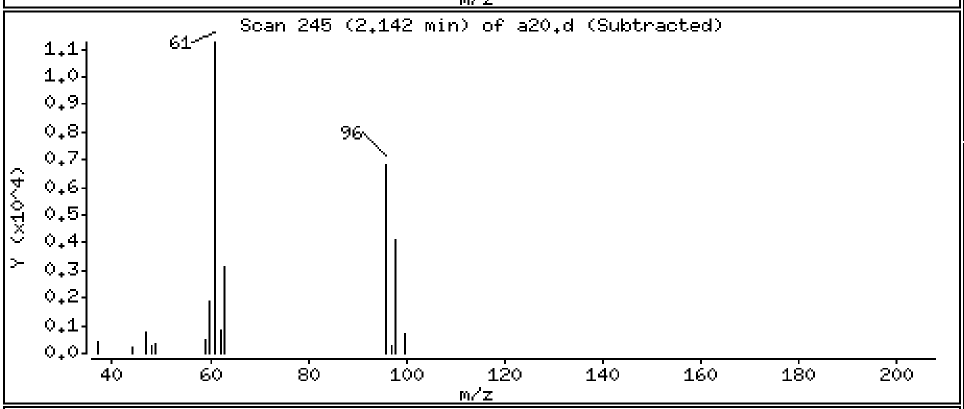
Column diameter: 0.18

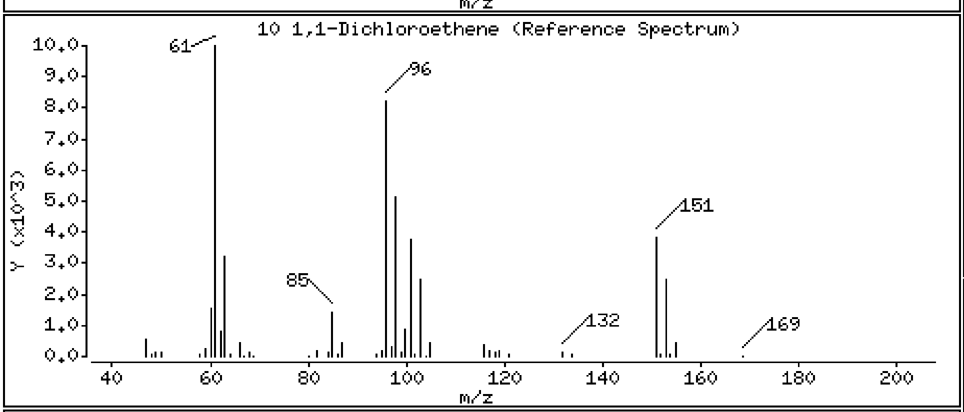
10 1,1-Dichloroethene

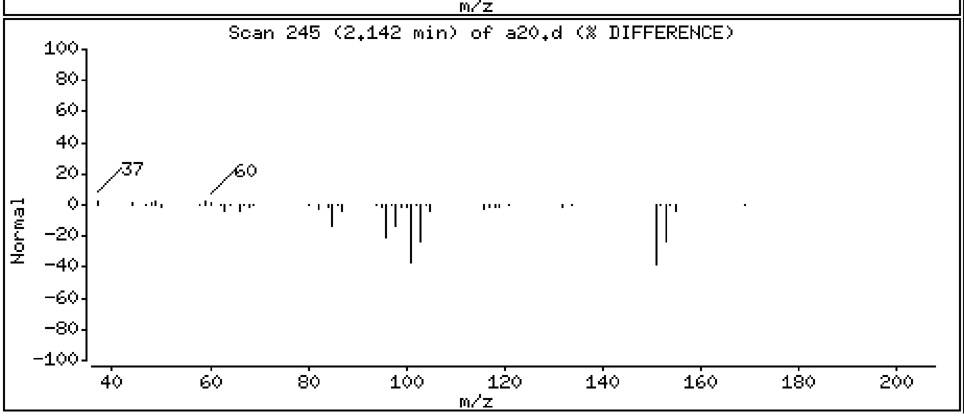
Concentration: 5.50 ppb

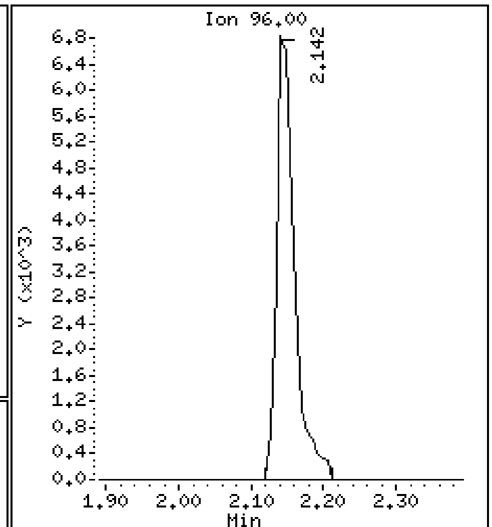
Review Code:

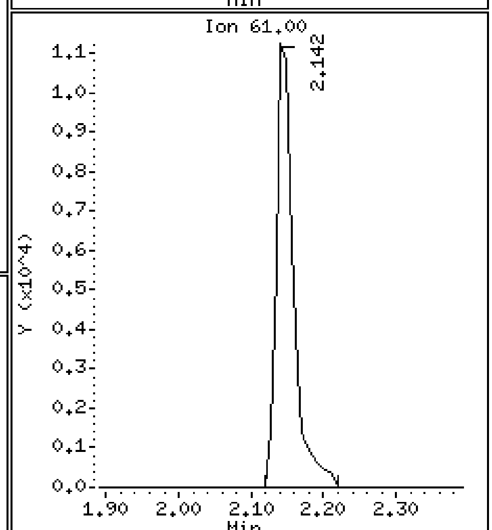


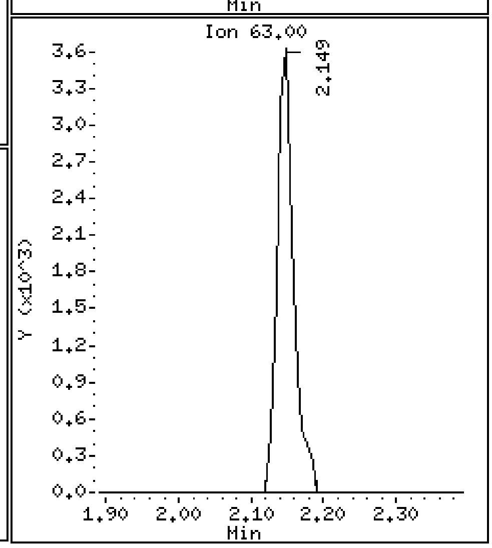












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d

Date : 23-JAN-2023 19:10

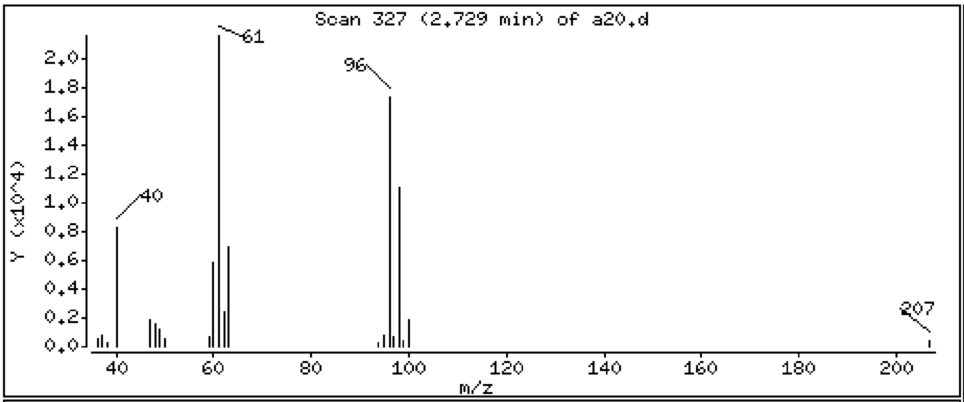
Client ID: LA2268 Instrument: 50mvda.i

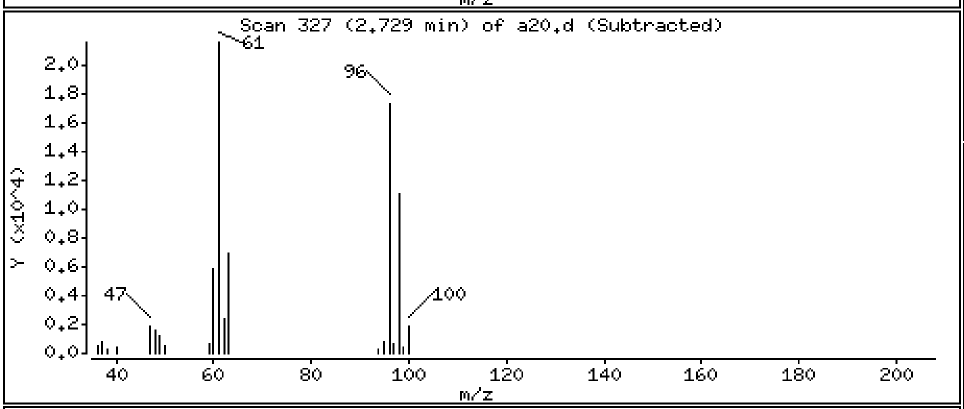
Sample Info: 50335726004

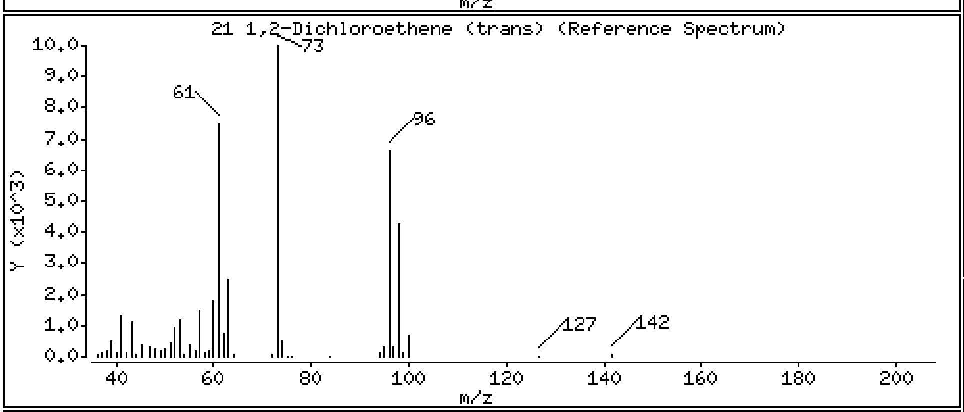
Purge Volume: 5.0 Operator: tkg

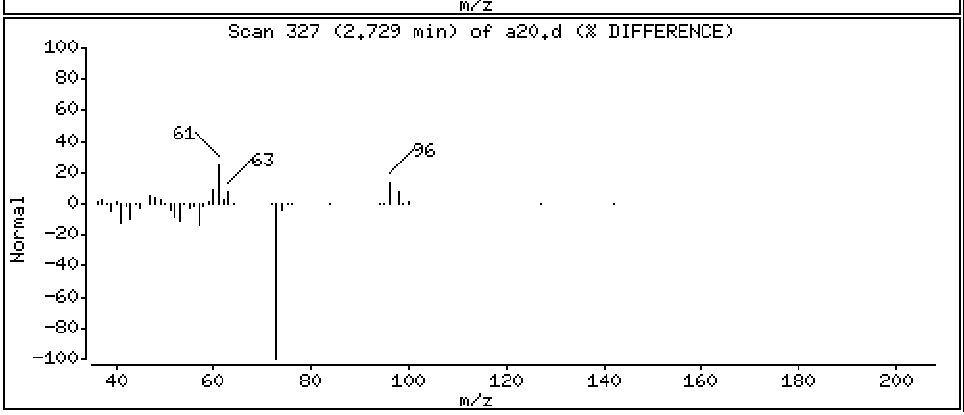
Column phase: DB-624 Column diameter: 0.18

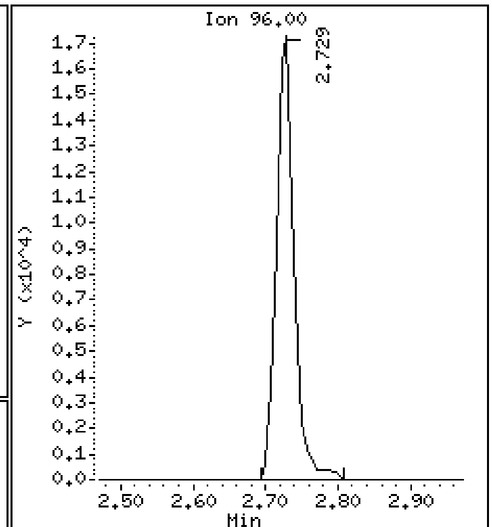
21 1,2-Dichloroethene (trans) Concentration: 12.0 ppb Review Code:

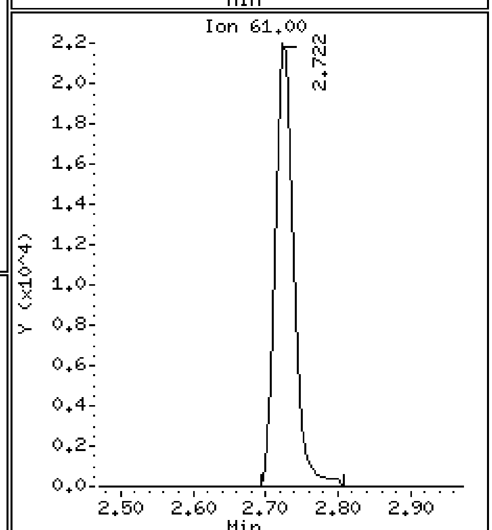


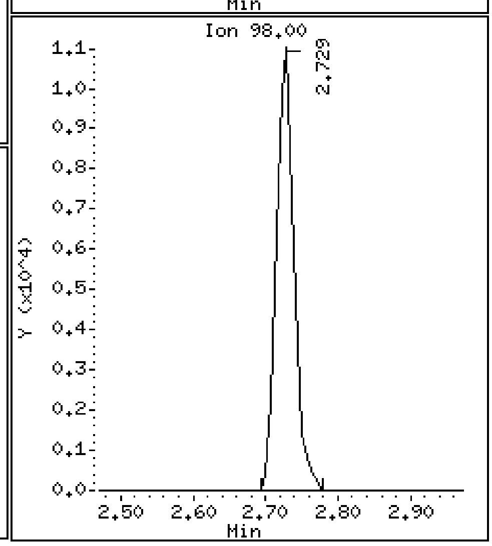












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d

Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

Purge Volume: 5.0

Operator: tkg

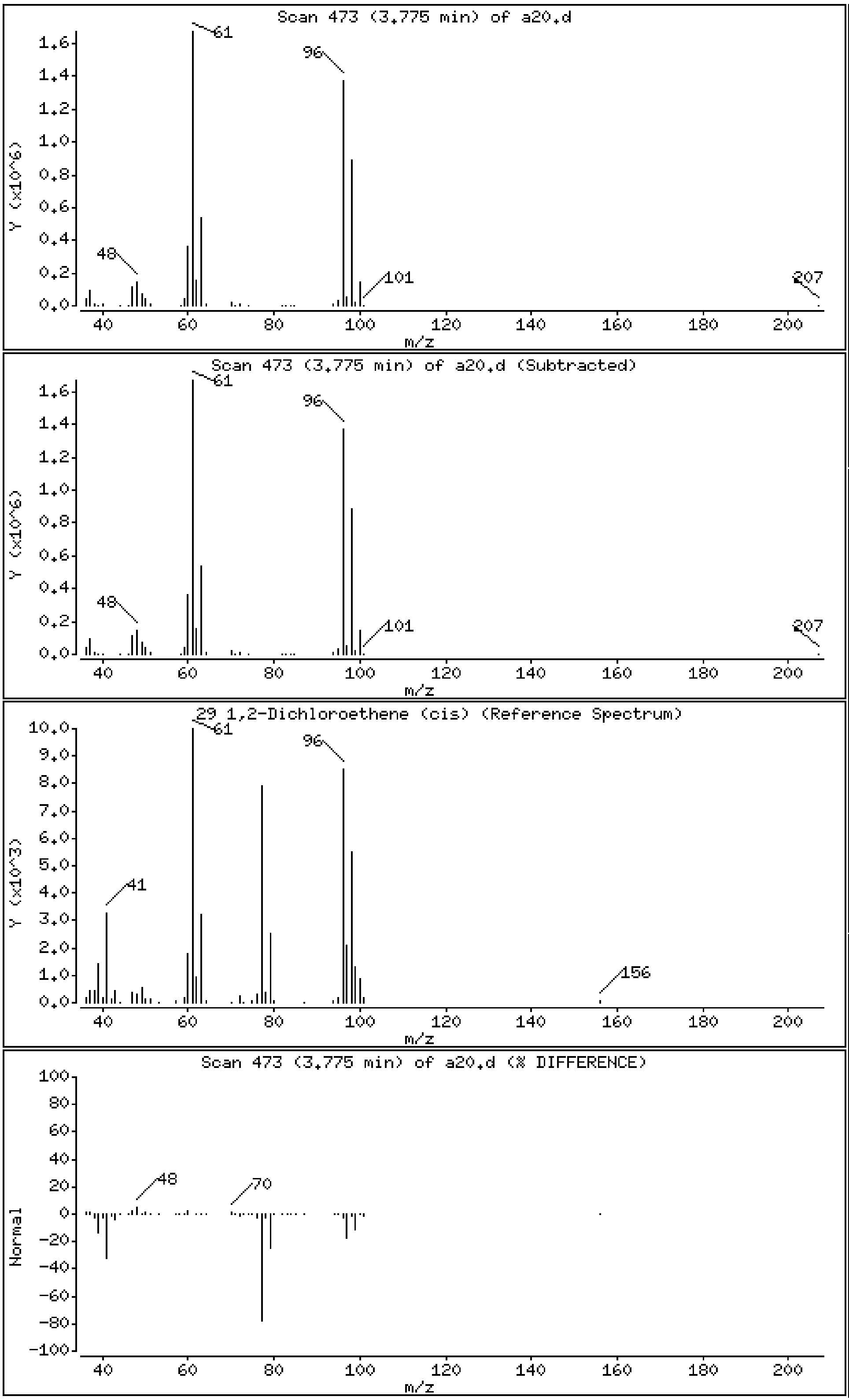
Column phase: DB-624

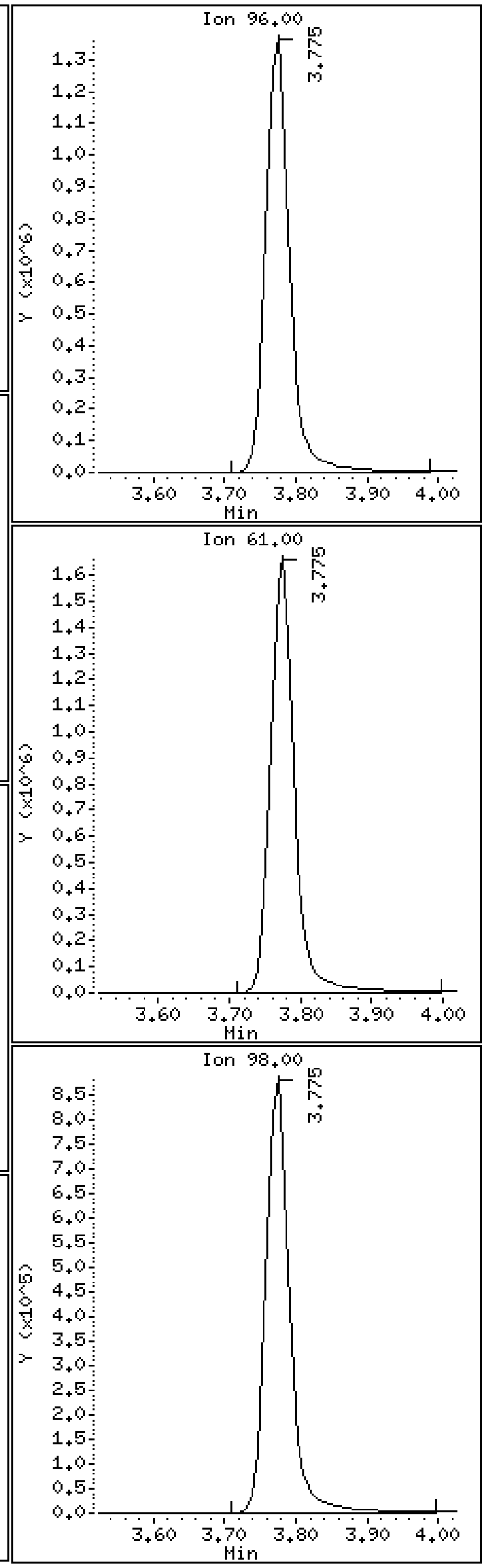
Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 1170 ppb

Review Code:





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Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

Purge Volume: 5.0

Operator: tkg

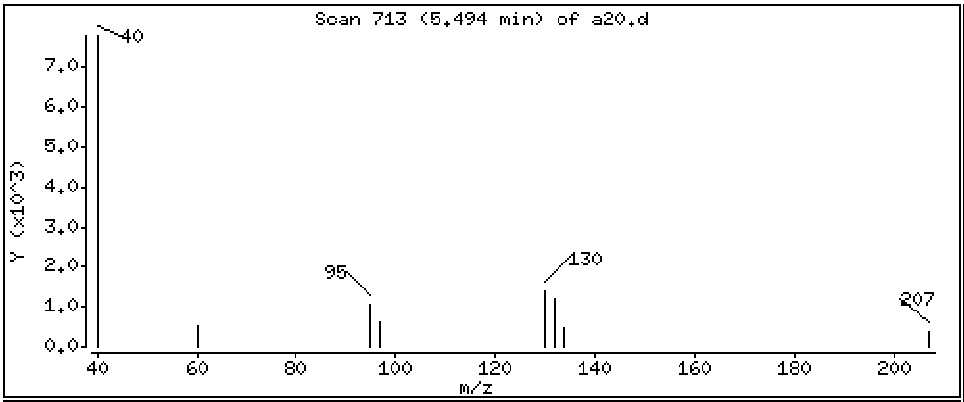
Column phase: DB-624

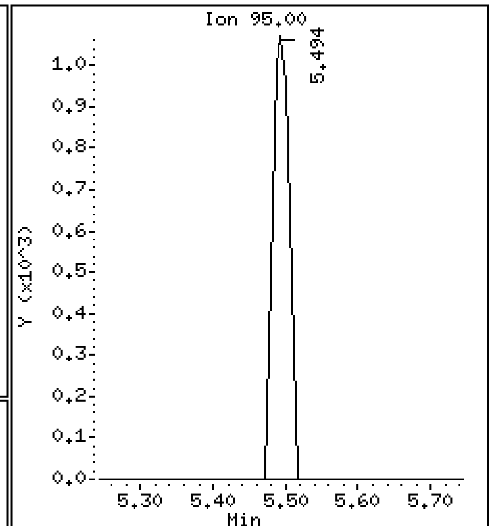
Column diameter: 0.18

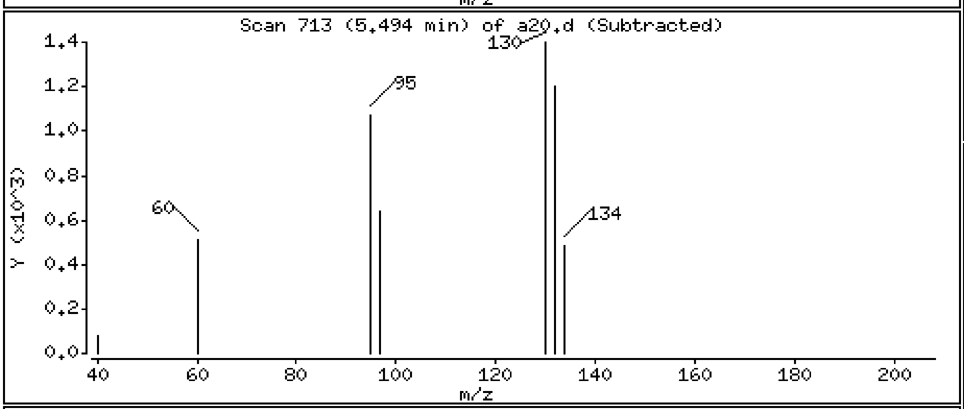
48 Trichloroethene

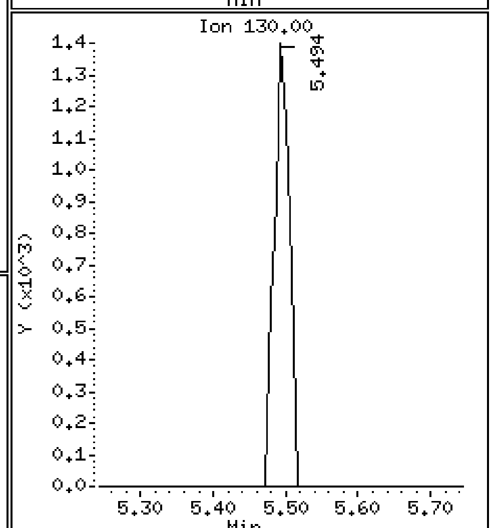
Concentration: 0.757 ppb

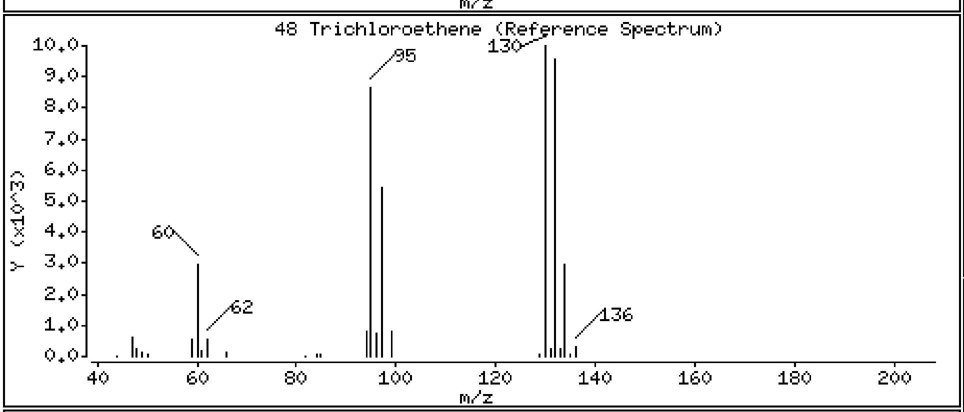
Review Code:

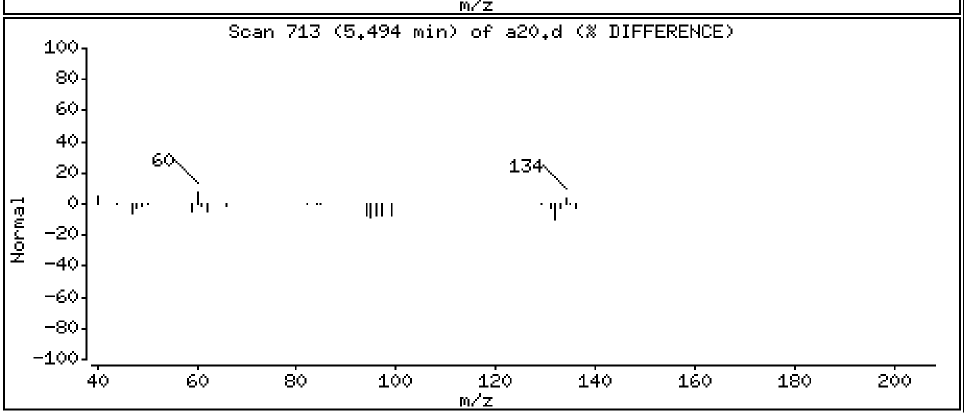


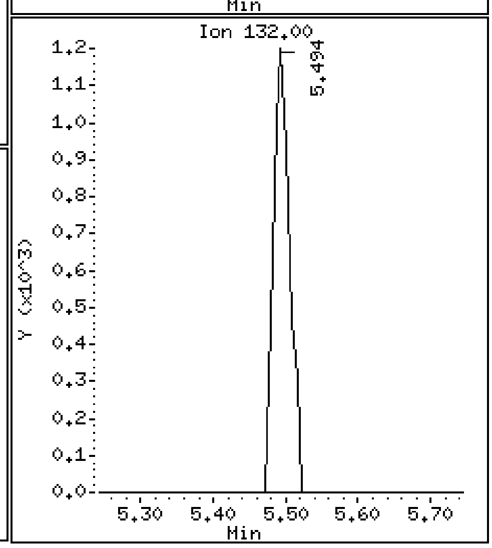












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d

Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

Purge Volume: 5.0

Operator: tkg

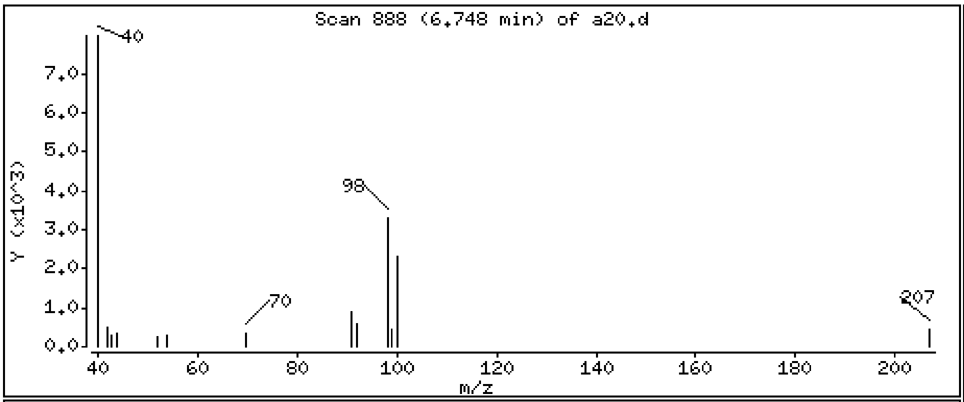
Column phase: DB-624

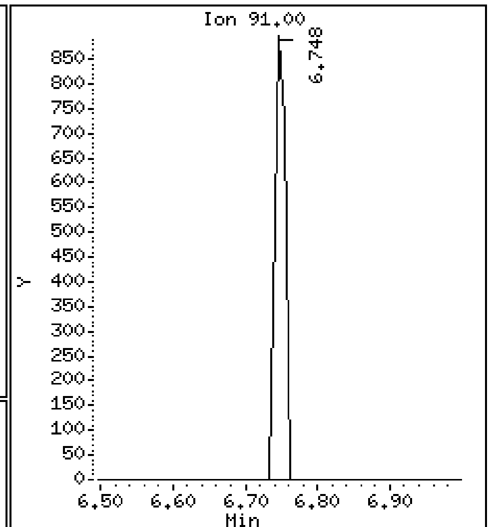
Column diameter: 0.18

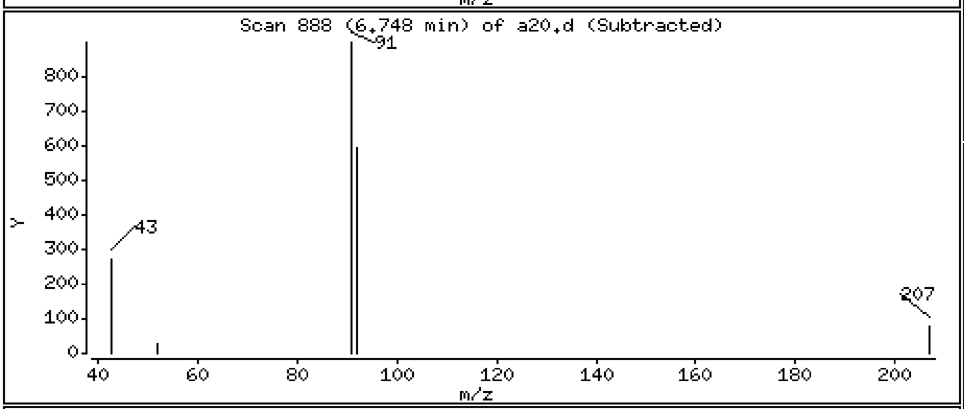
59 Toluene

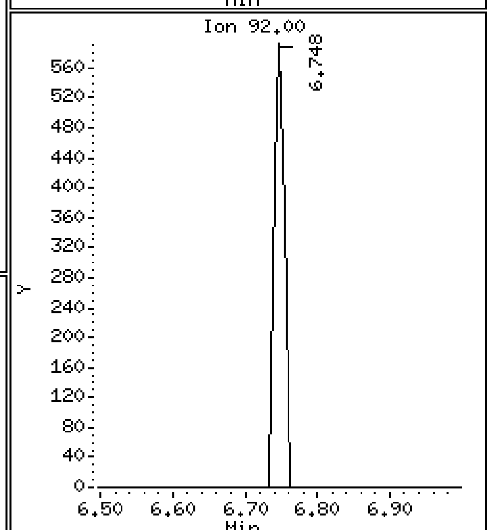
Concentration: 0.0862 ppb

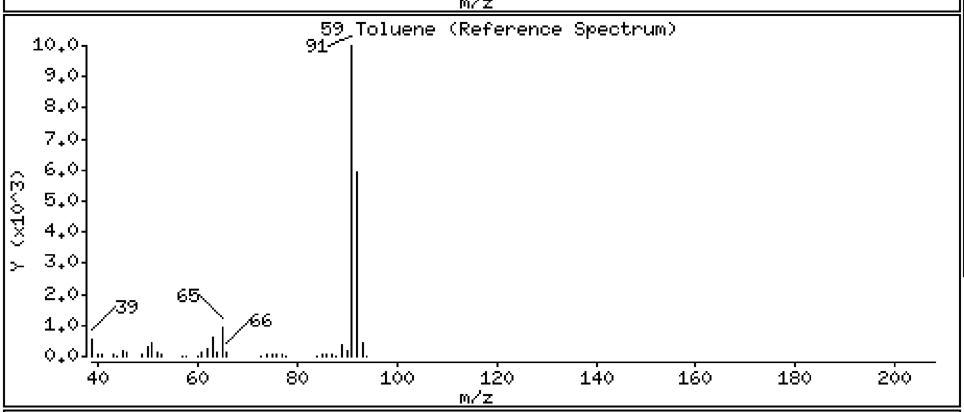
Review Code:

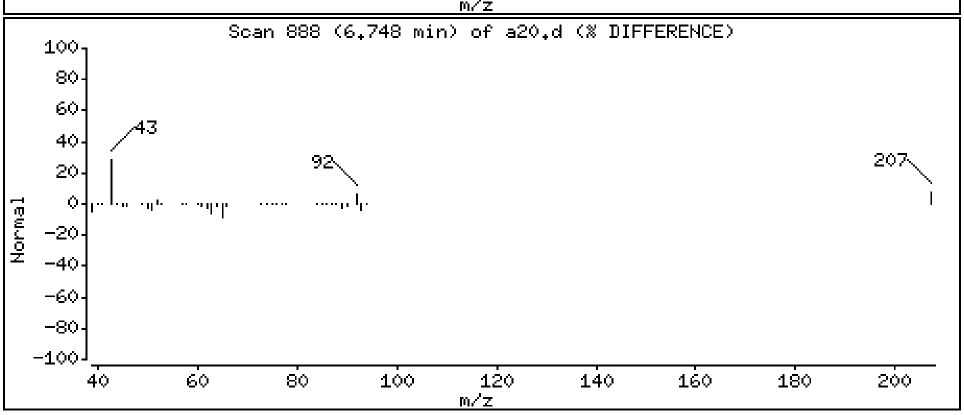












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a20.d

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Date : 23-JAN-2023 19:10

Client ID: LA2268

Instrument: 50mvda.i

Sample Info: 50335726004

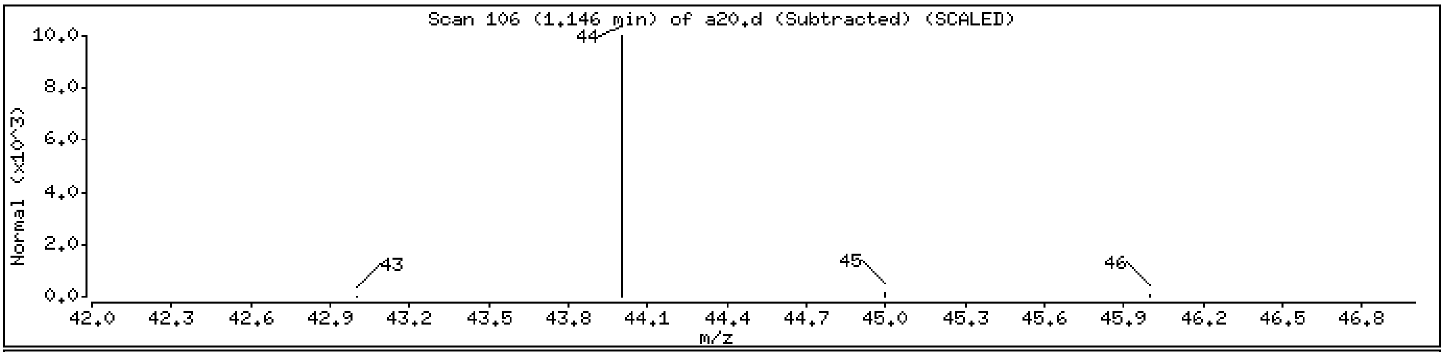
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

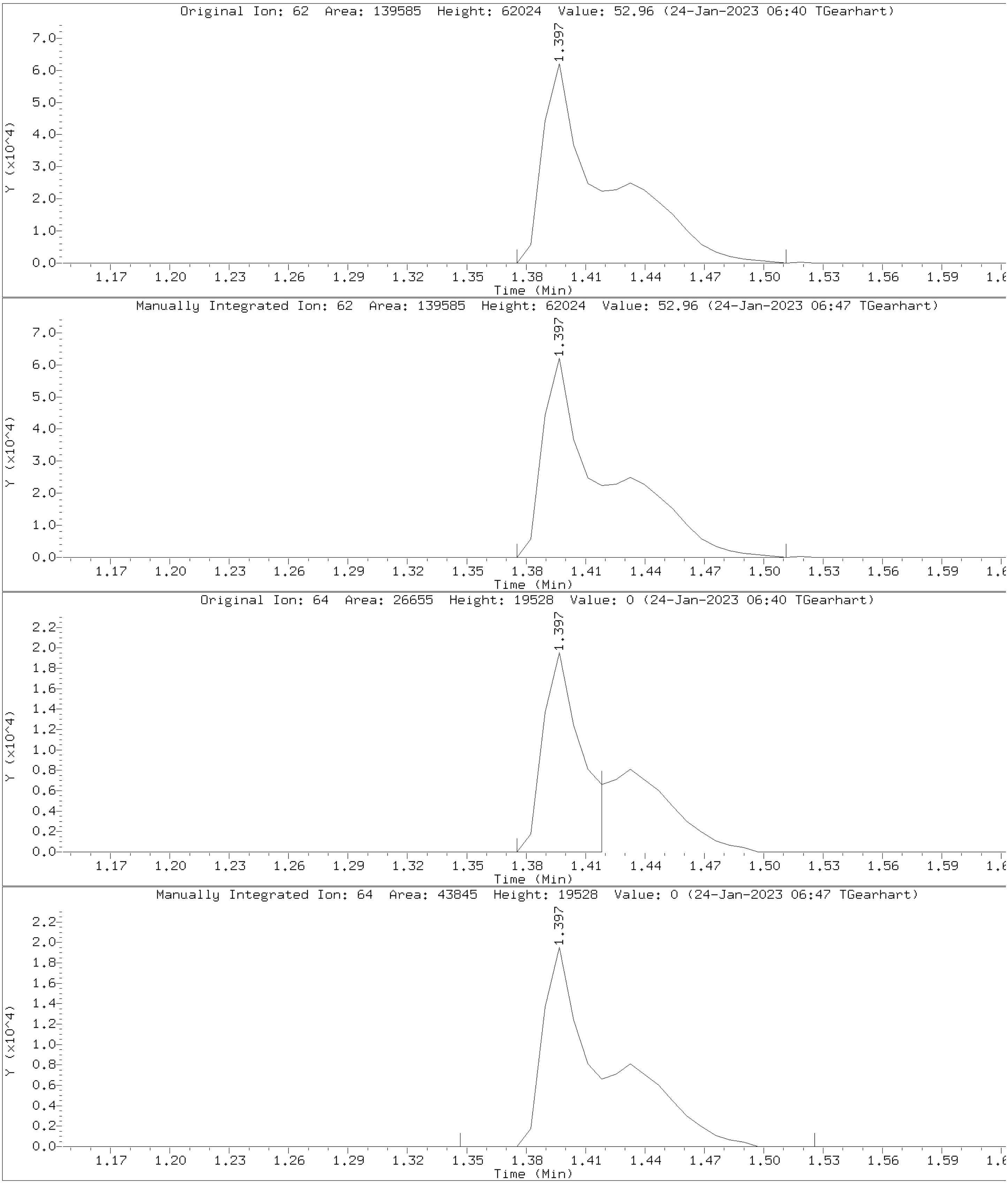
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a20.d
Injection Date: 23-JAN-2023 19:10
Instrument: 50mvda.i
Lab Sample ID: 50335726004

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



SAMPLE NO.

LA2269

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/24/2023 17:52

Lab Sample ID: 50335726005

Date Analyzed: 01/24/2023 17:52

Lab File ID: B012423.B\B10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 100

Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	7550	
79-01-6	Trichloroethene	16200	

02/02/2023 6:30

SAMPLE NO.

LA2269

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/24/2023 17:52

Lab Sample ID: 50335726005

Date Analyzed: 01/24/2023 17:52

Lab File ID: B012423.B\B10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 100

Instrument: 50MVCB Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	4.591	4790	J

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d
Lab Smp Id: 50335726005 Client Smp ID: LA2269
Inj Date : 24-JAN-2023 17:52
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 50335726005x100
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	100.000	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)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	1485	1.10962	111	
22 n-Hexane	57	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	111902	75.4890	7550	
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	49215	51.3531	51.4	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.985	4.978	(1.000)	210979	50.0000	(Q)	
	48 Trichloroethene	95	5.379	5.379	(1.079)	230448	162.406	16200	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.589	6.590	(0.863)	207720	49.1837	49.2	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	162879	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.302	(1.087)	71533	46.6280	46.6	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.875	(1.000)	86830	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d

Date : 24-JAN-2023 17:52

Client ID: LA2269

Instrument: 50mvcb.i

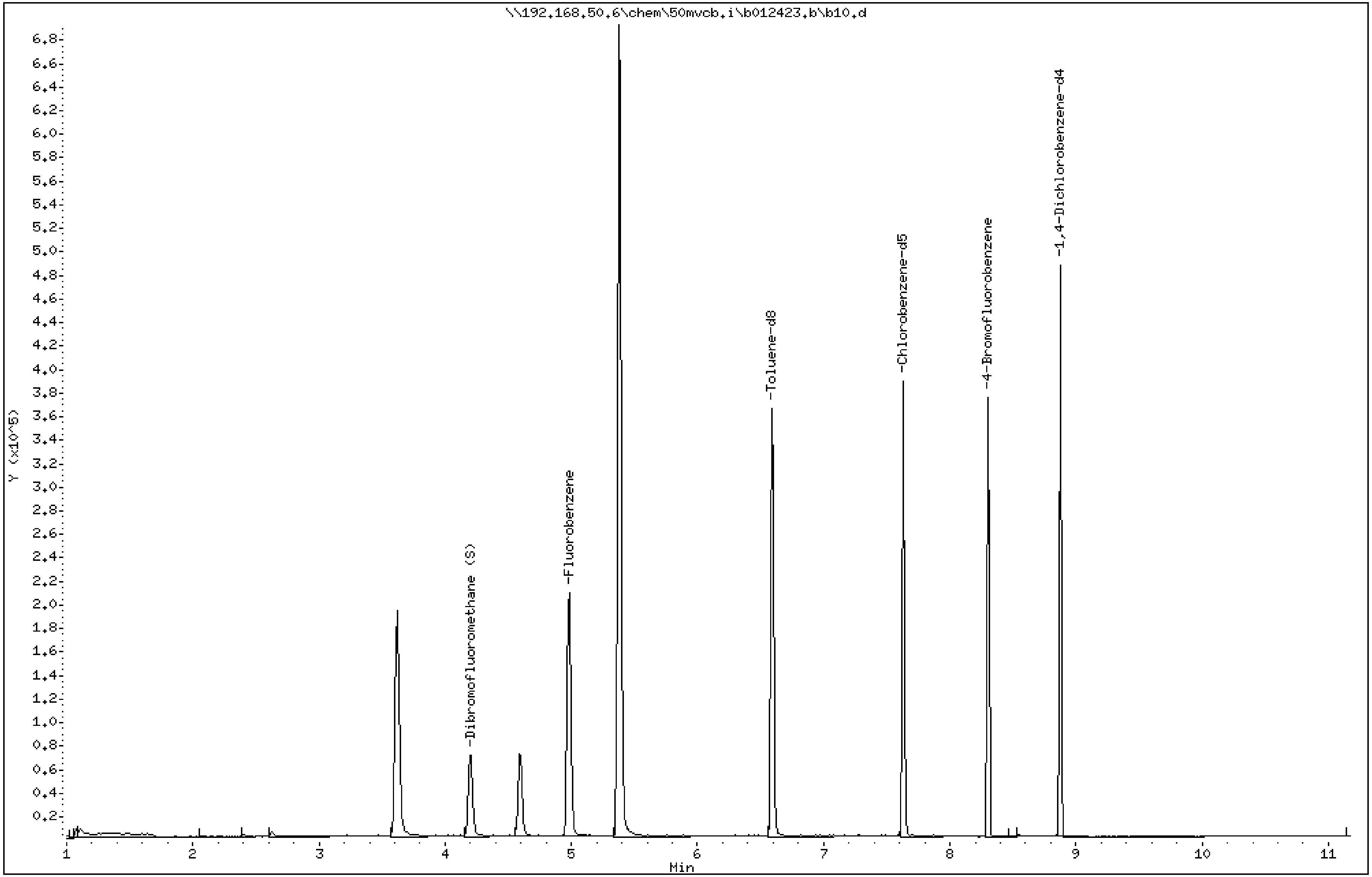
Sample Info: 50335726005x100

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d

Date : 24-JAN-2023 17:52

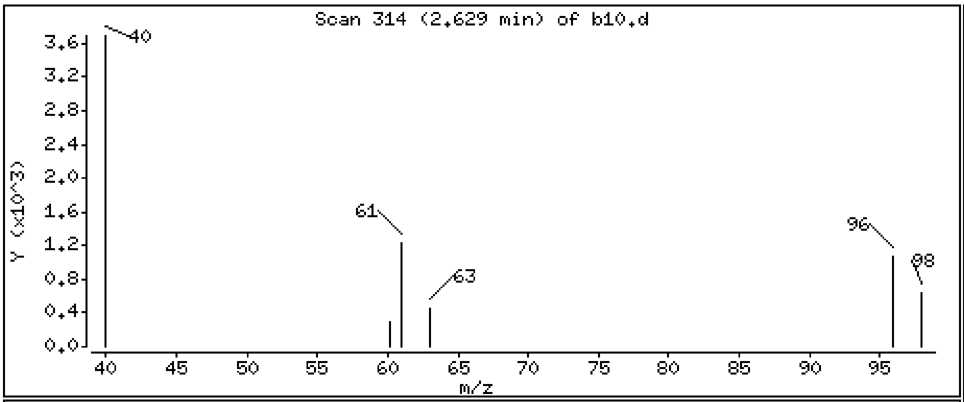
Client ID: LA2269 Instrument: 50mvcb.i

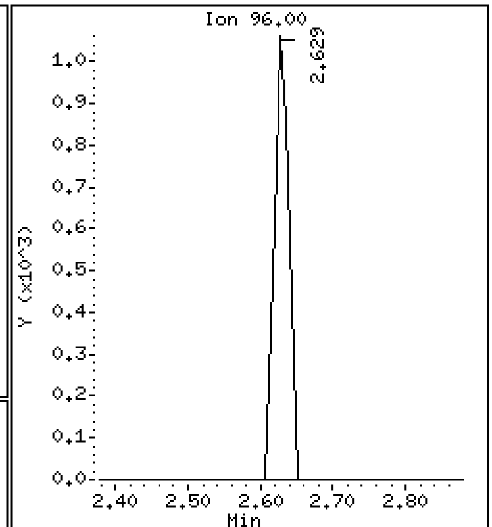
Sample Info: 50335726005x100

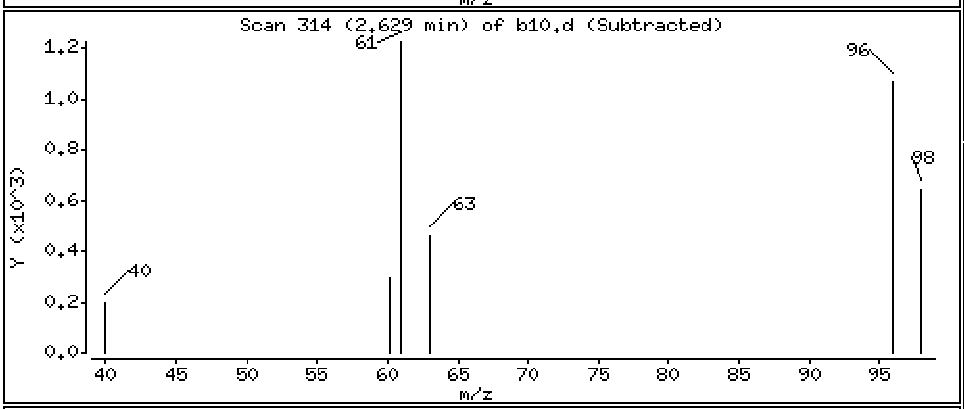
Purge Volume: 5.0 Operator: tkg

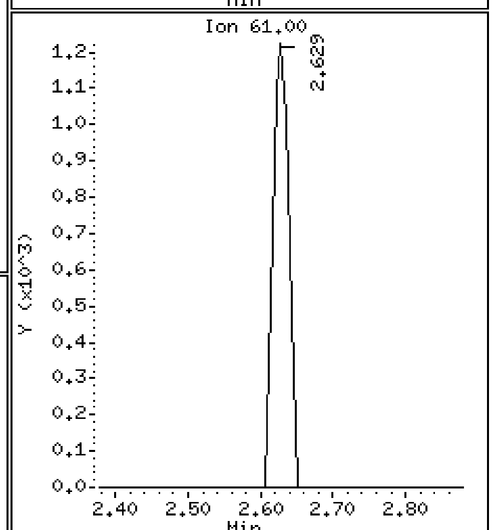
Column phase: DB-624 Column diameter: 0.18

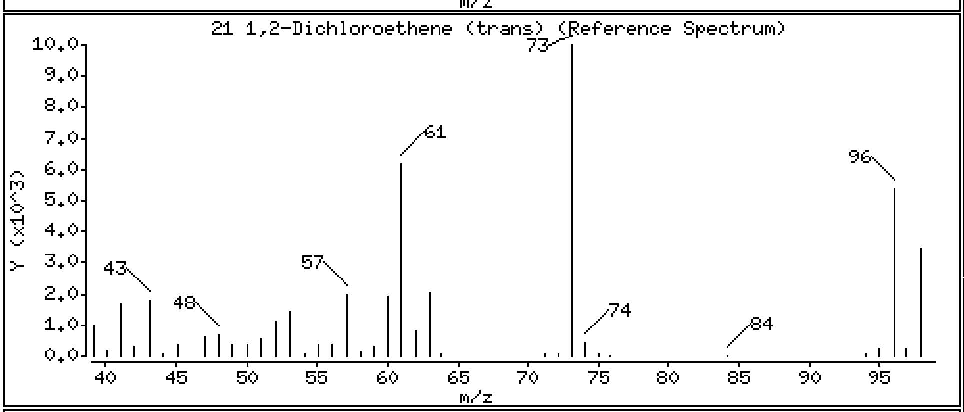
21 1,2-Dichloroethene (trans) Concentration: 111 ppb Review Code:

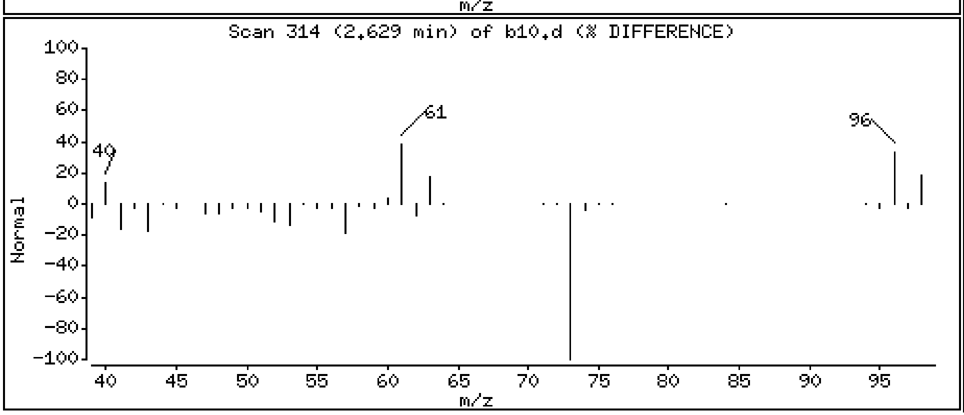


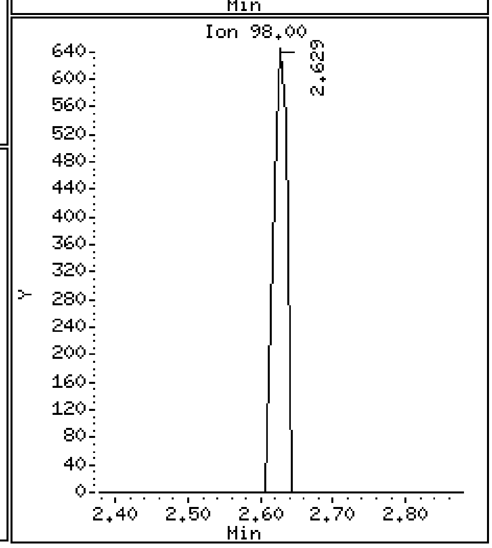












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d

Date : 24-JAN-2023 17:52

Client ID: LA2269

Instrument: 50mvcb.i

Sample Info: 50335726005x100

Purge Volume: 5.0

Operator: tkg

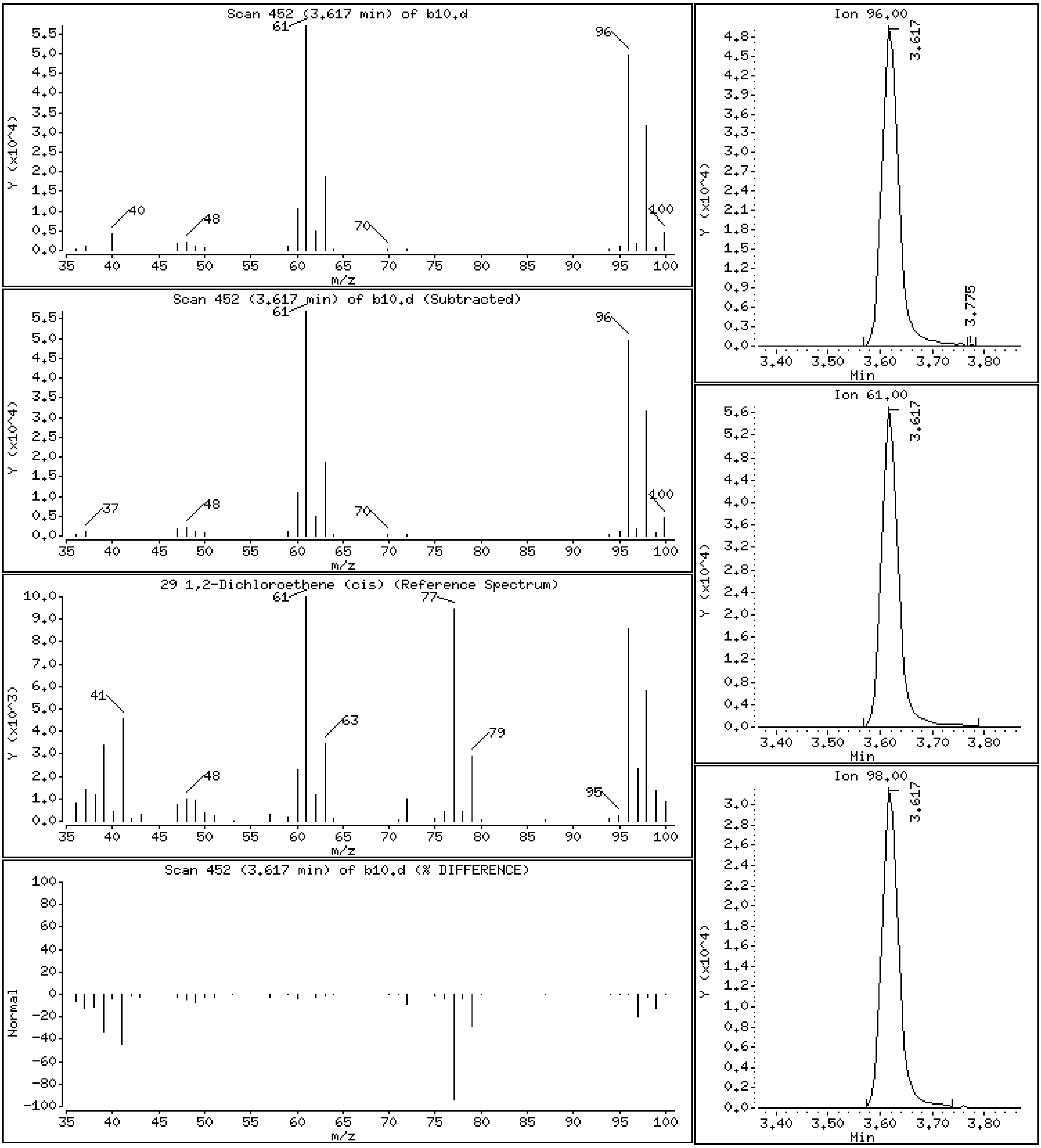
Column phase: DB-624

Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 7550 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d

Date : 24-JAN-2023 17:52

Client ID: LA2269

Instrument: 50mvcb.i

Sample Info: 50335726005x100

Purge Volume: 5.0

Operator: tkg

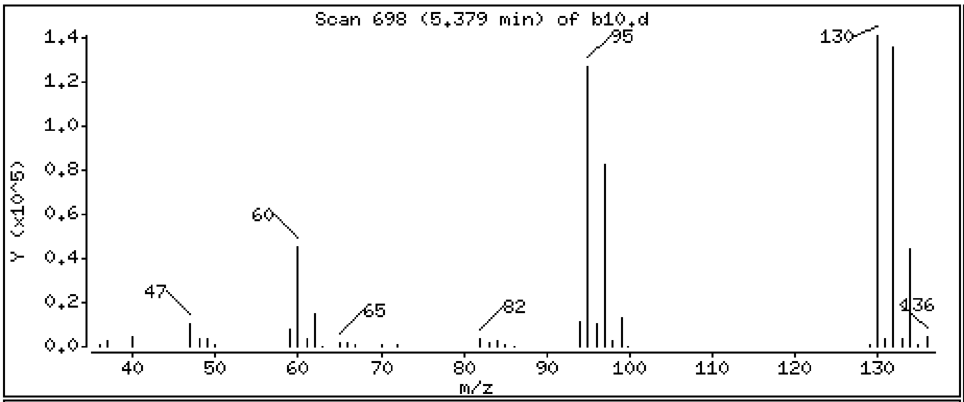
Column phase: DB-624

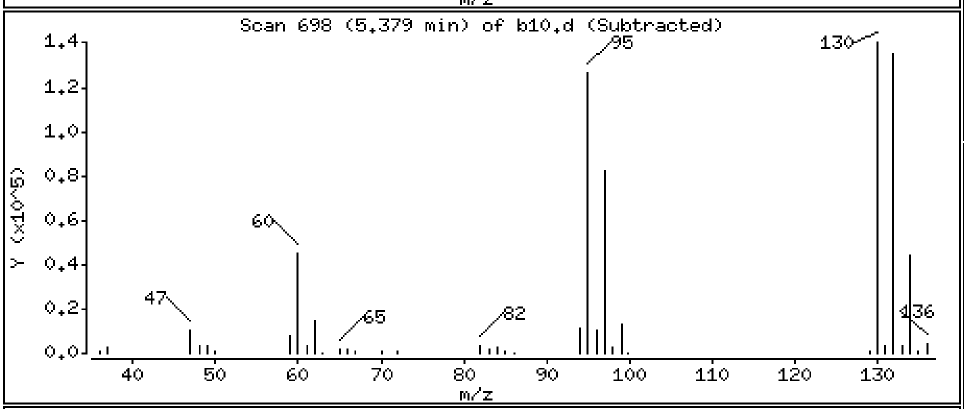
Column diameter: 0.18

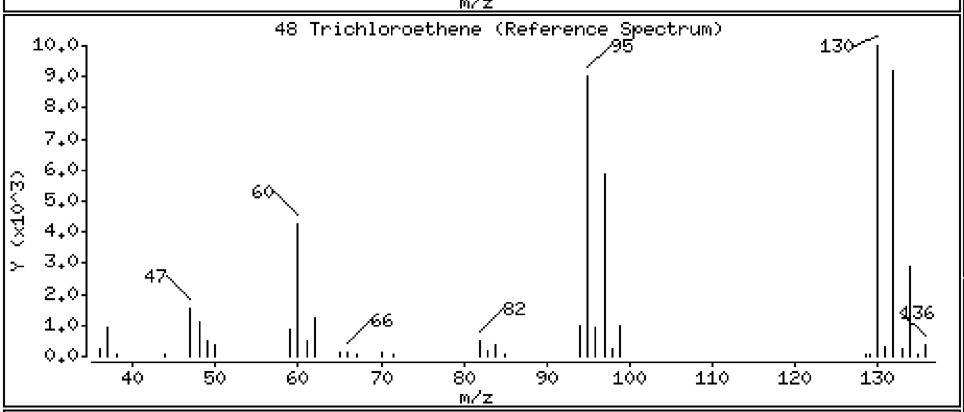
48 Trichloroethene

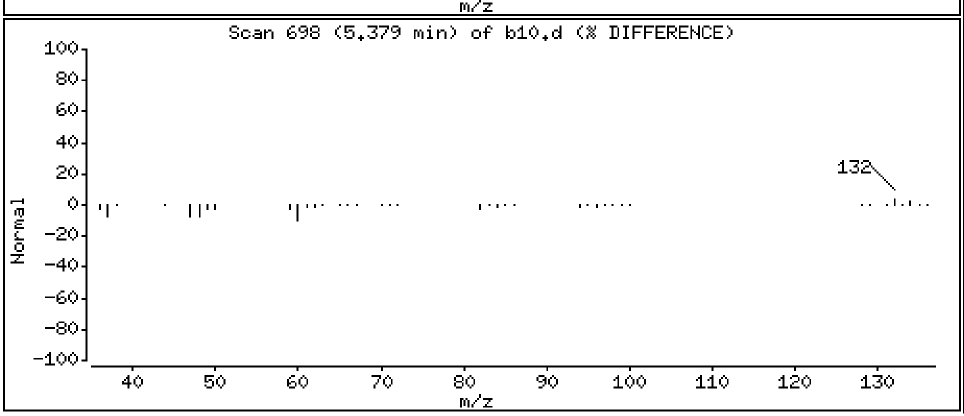
Concentration: 16200 ppb

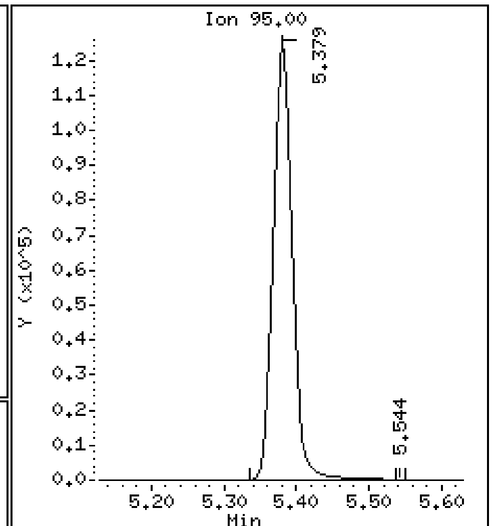
Review Code:

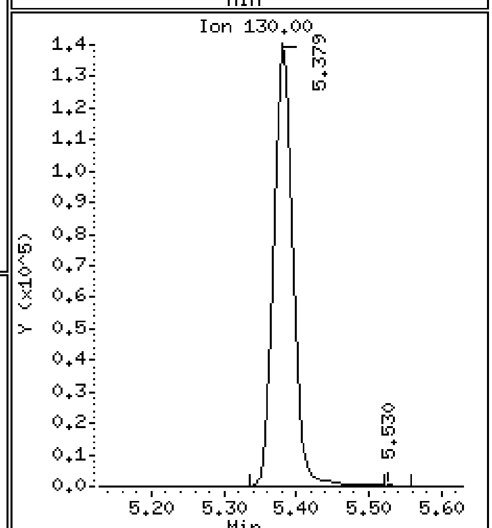


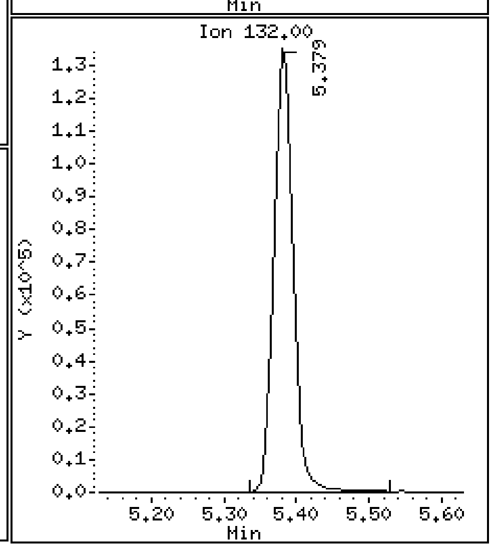












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b10.d

Date : 24-JAN-2023 17:52

Client ID: LA2269

Instrument: 50mvcb.i

Sample Info: 50335726005x100

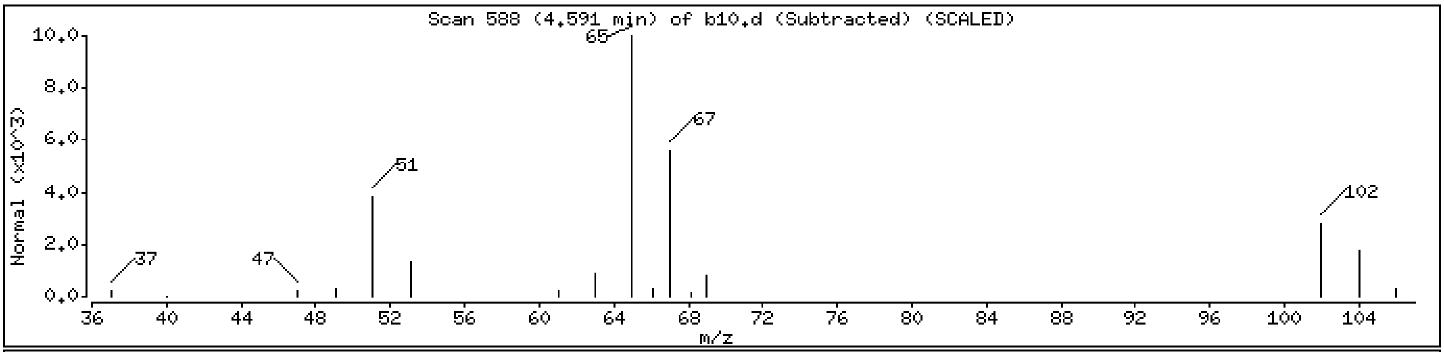
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b/b10.d
Injection Date: 24-JAN-2023 17:52
Instrument: 50mvcb.i
Lab Sample ID: 50335726005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2269

MSV - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35 Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 16:29 Lab Sample ID: 50335726005
Date Analyzed: 01/23/2023 16:29 Lab File ID: A012323.B\A14.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MVDA 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	57.7	
156-60-5	trans-1,2-Dichloroethene	157	
78-87-5	1,2-Dichloropropane	ND	U
142-28-9	1,3-Dichloropropane	ND	U
594-20-7	2,2-Dichloropropane	ND	U
563-58-6	1,1-Dichloropropene	ND	U

02/02/2023 6:30

SAMPLE NO.

LA2269

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 16:29
Lab Sample ID: 50335726005
Date Analyzed: 01/23/2023 16:29
Lab File ID: A012323.B\A14.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
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
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
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	13.1	
1330-20-7	Xylene (Total)	ND	U

SAMPLE NO.

LA2269

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 16:29
Lab Sample ID: 50335726005
Date Analyzed: 01/23/2023 16:29
Lab File ID: A012323.B\A14.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	1.146	28.2	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a14.d
Lab Smp Id: 50335726005 Client Smp ID: LA2269
Inj Date : 23-JAN-2023 16:29
Operator : tkg Inst ID: 50mvda.i
Smp Info : 50335726005
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.396	1.396	(0.273)	37129	13.1275	13.1	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	2.148	2.141	(0.420)	131208	57.7301	57.7	
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	411994	156.818	157	
22 n-Hexane	57	Compound Not Detected.						

		QUANT SIG					CONCENTRATIONS		
							ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	23 1,1-Dichloroethane	63	Compound Not Detected.						
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	3.781	3.775	(0.739)	25114576	8531.64	8530	
	30 2-Butanone	43	Compound Not Detected.						(D)
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.853)	111977	52.2632	52.3	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	5.114	5.107	(1.000)	419442	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.078)	34152928	14024.4	14000	
	49 Methylcyclohexane	55	5.708	5.673	(1.116)	5323	1.47752	1.48(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.697	6.697	(0.867)	393823	47.0130	47.0	
	59 Toluene	91	6.747	6.747	(0.873)	9022	0.77576	0.776	
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	319368	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	7.814	7.815	(1.011)	727	0.18285	0.183	
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	126552	47.2668	47.3	
78 Bromobenzene	77	Compound Not Detected.						
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	144524	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a14.d

Page 4

Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

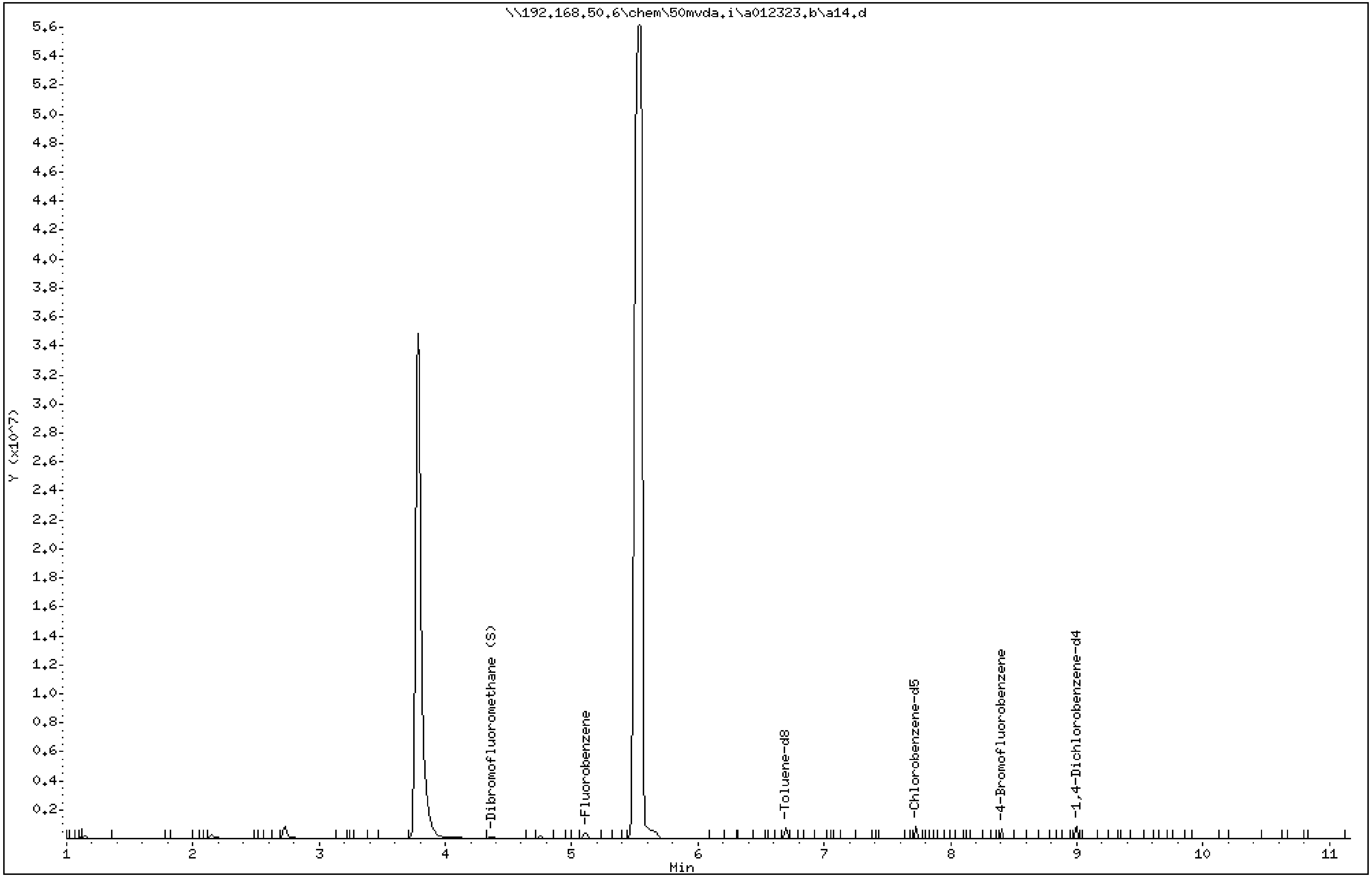
Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

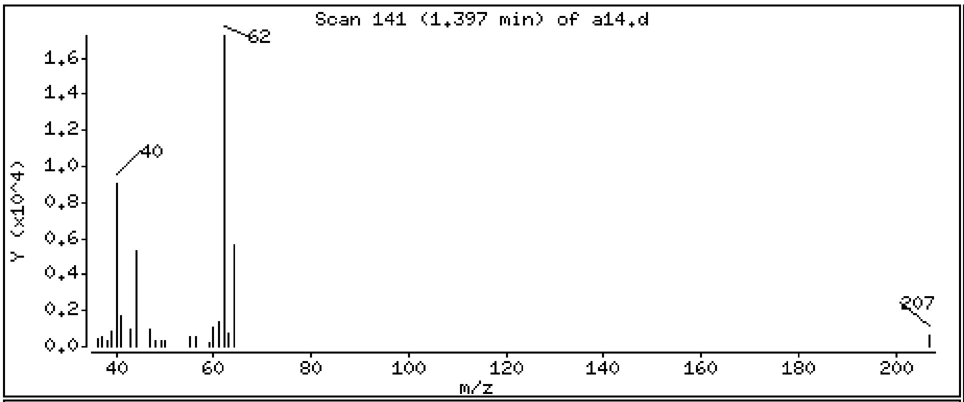
Column phase: DB-624

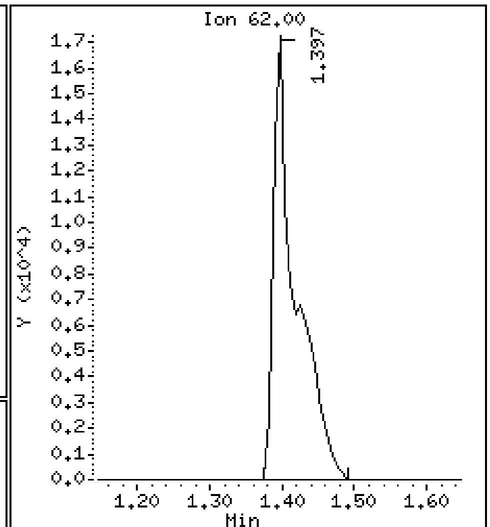
Column diameter: 0.18

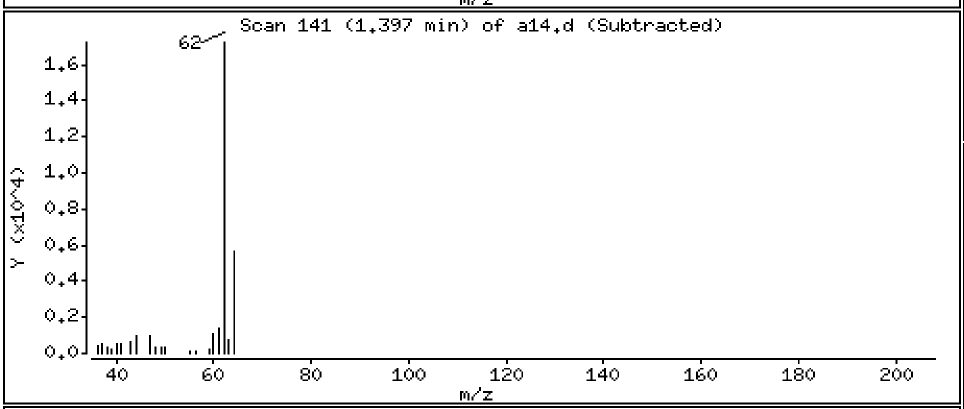
3 Vinyl Chloride

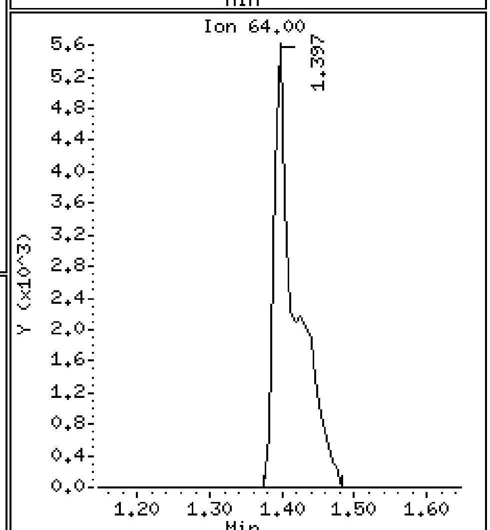
Concentration: 13.1 ppb

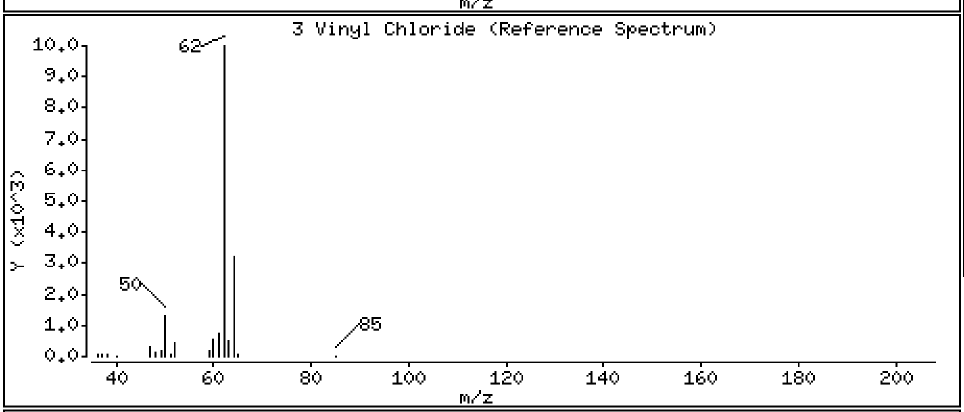
Review Code:

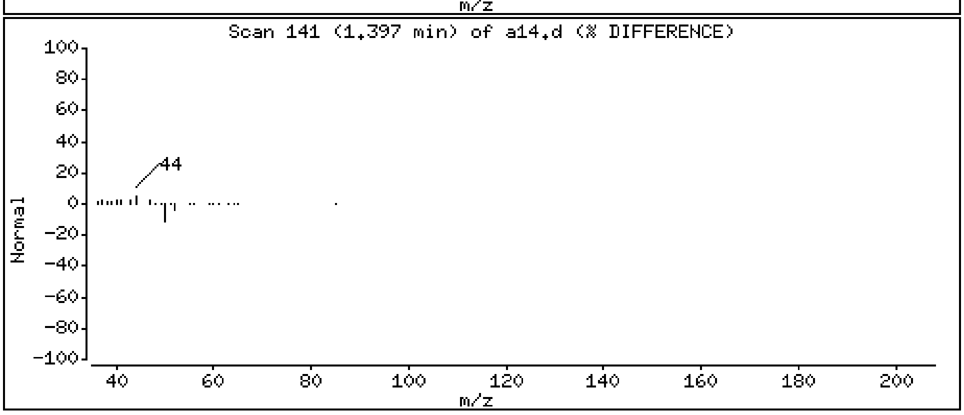












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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

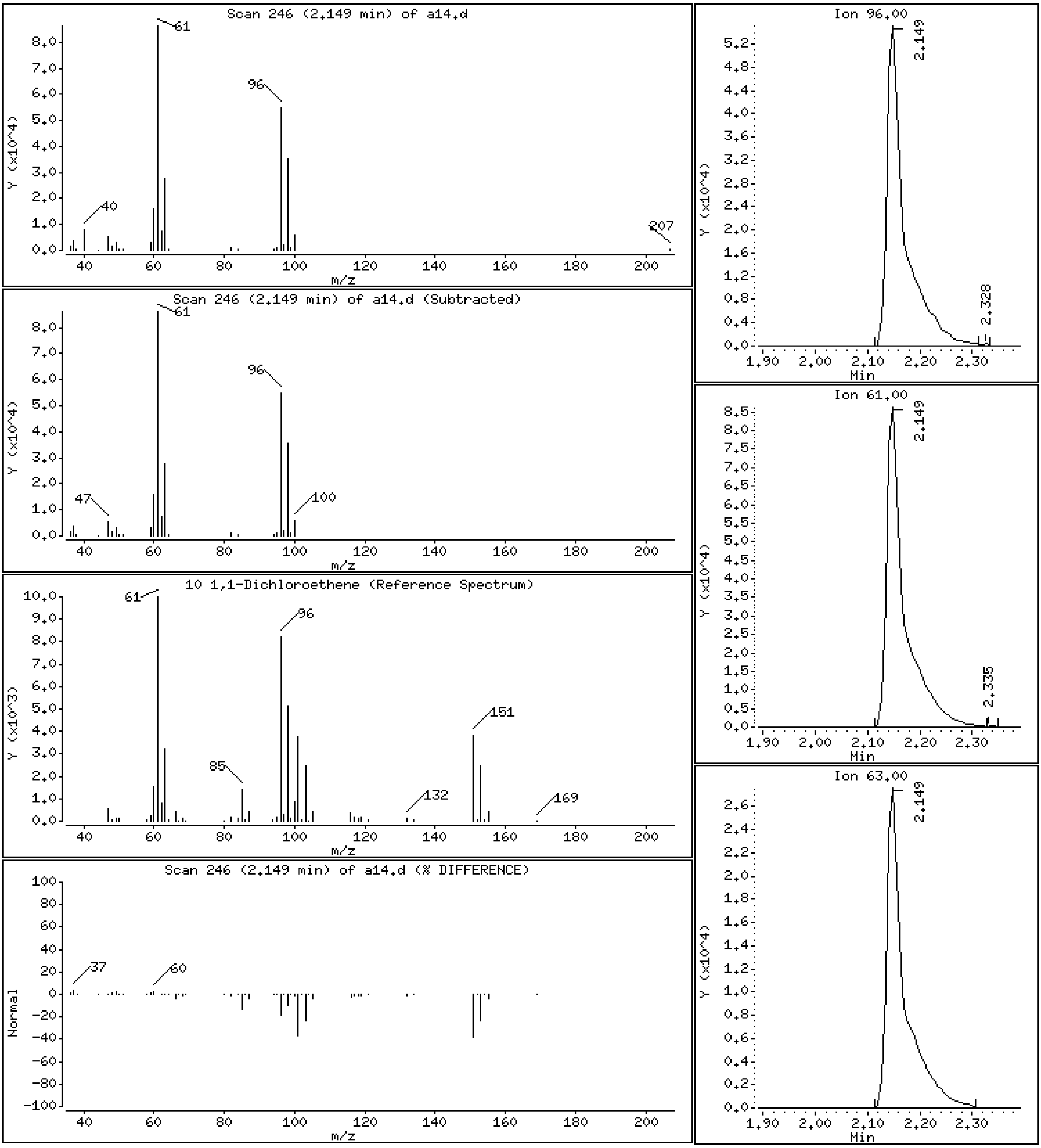
Column phase: DB-624

Column diameter: 0.18

10 1,1-Dichloroethene

Concentration: 57.7 ppb

Review Code:



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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

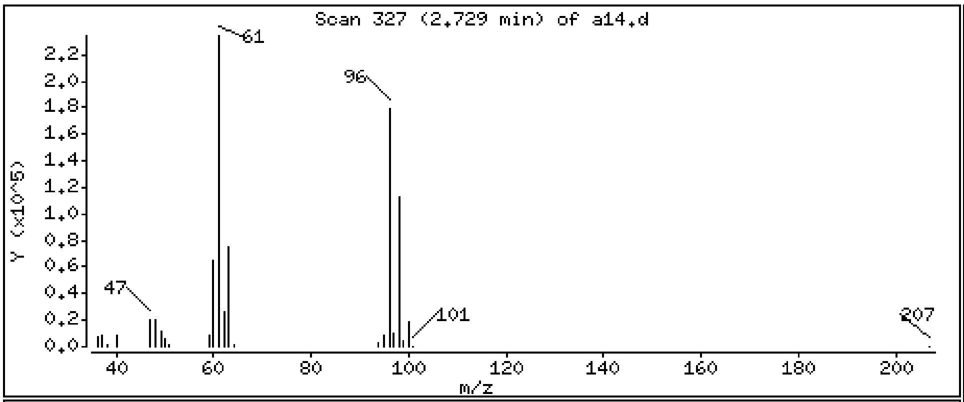
Column phase: DB-624

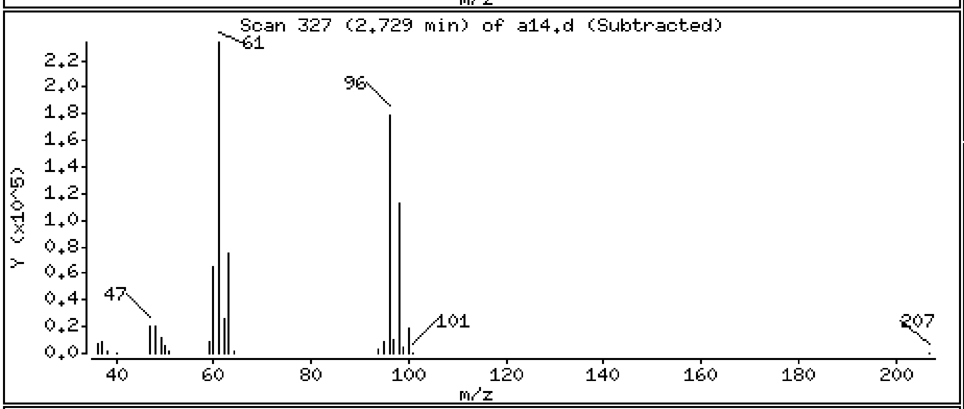
Column diameter: 0.18

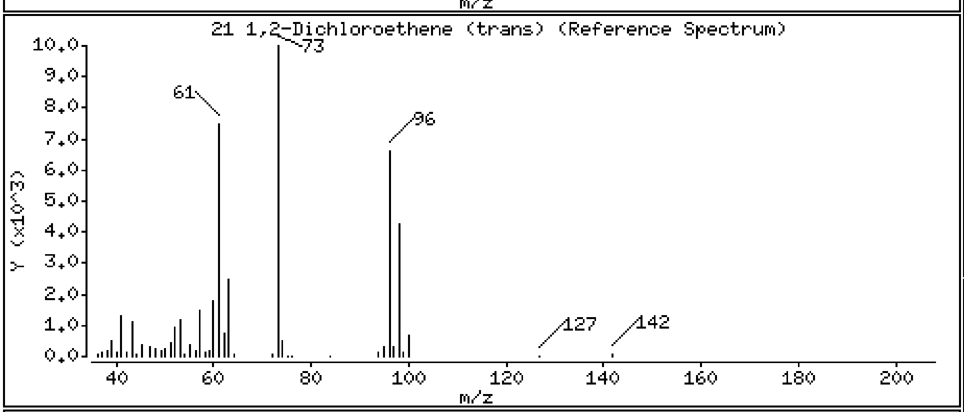
21 1,2-Dichloroethene (trans)

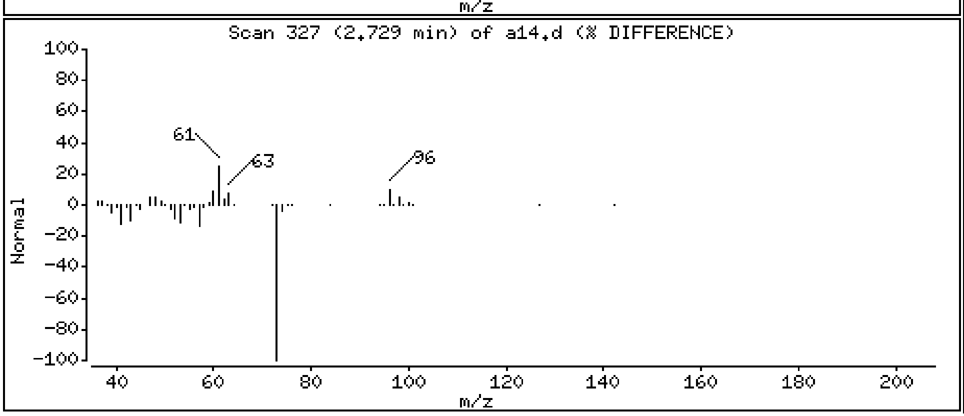
Concentration: 157 ppb

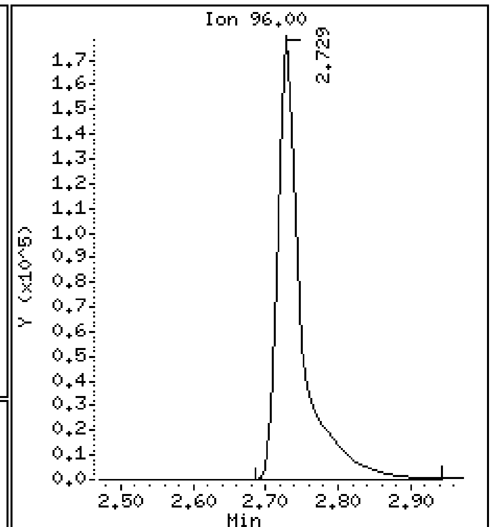
Review Code:

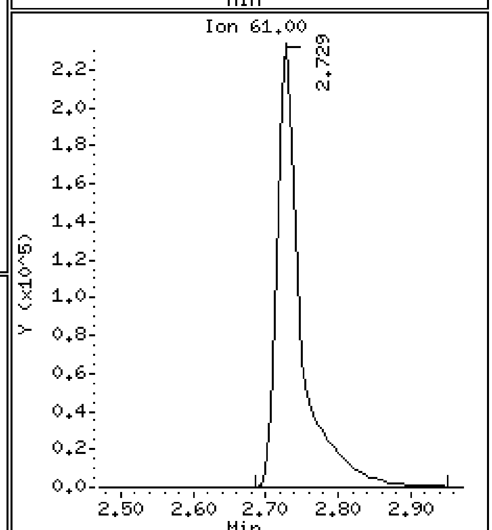


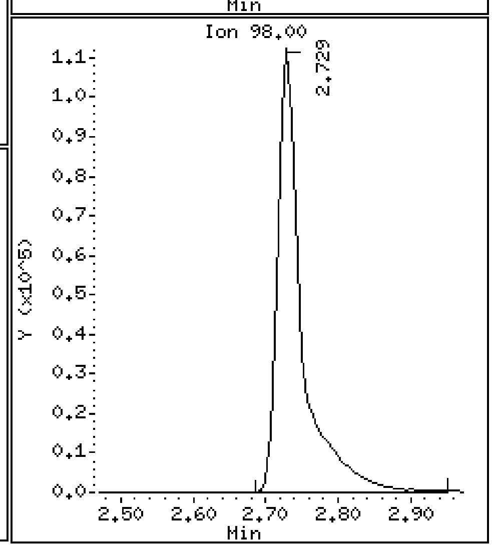












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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

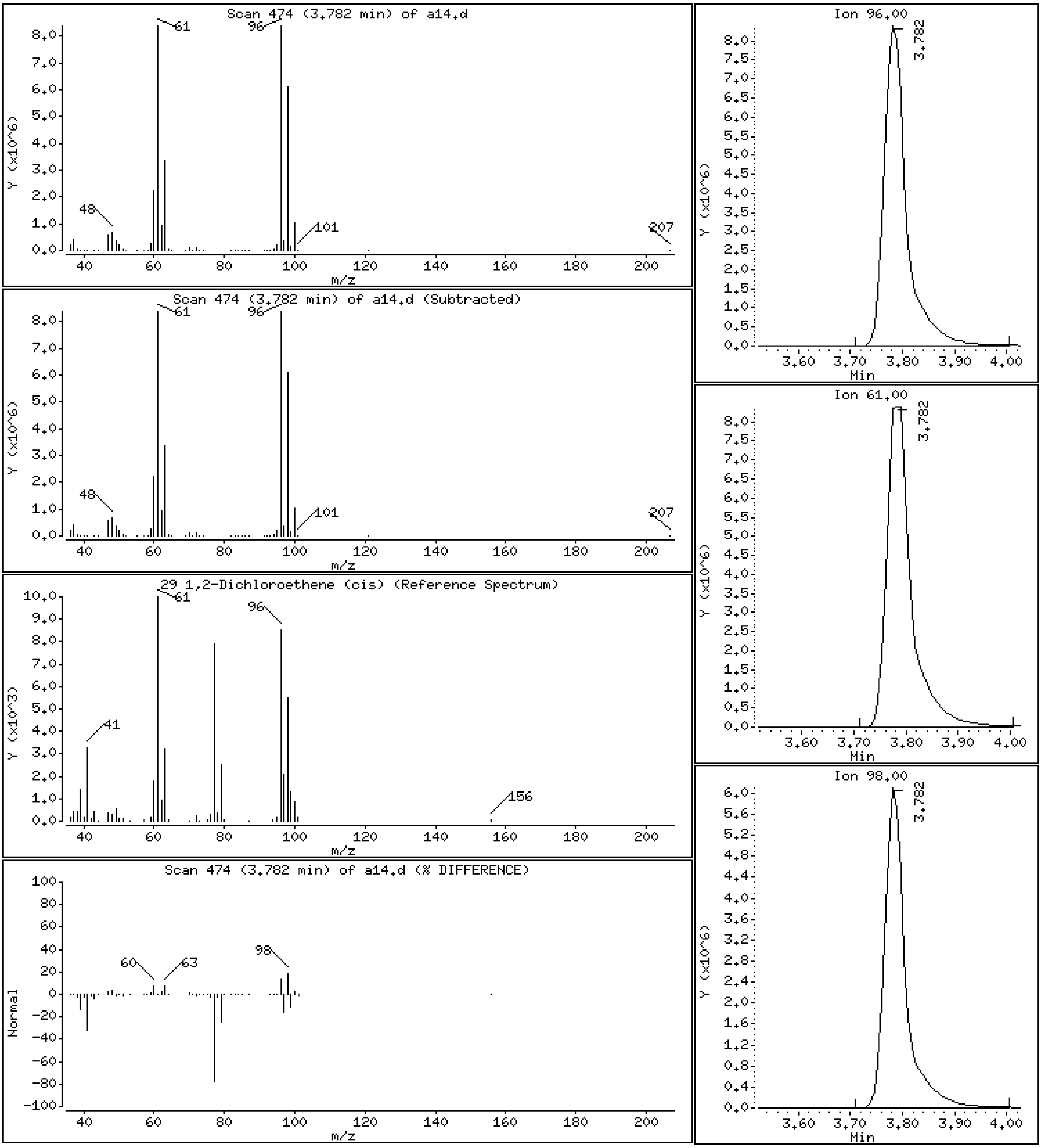
Column phase: DB-624

Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 8530 ppb

Review Code:



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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

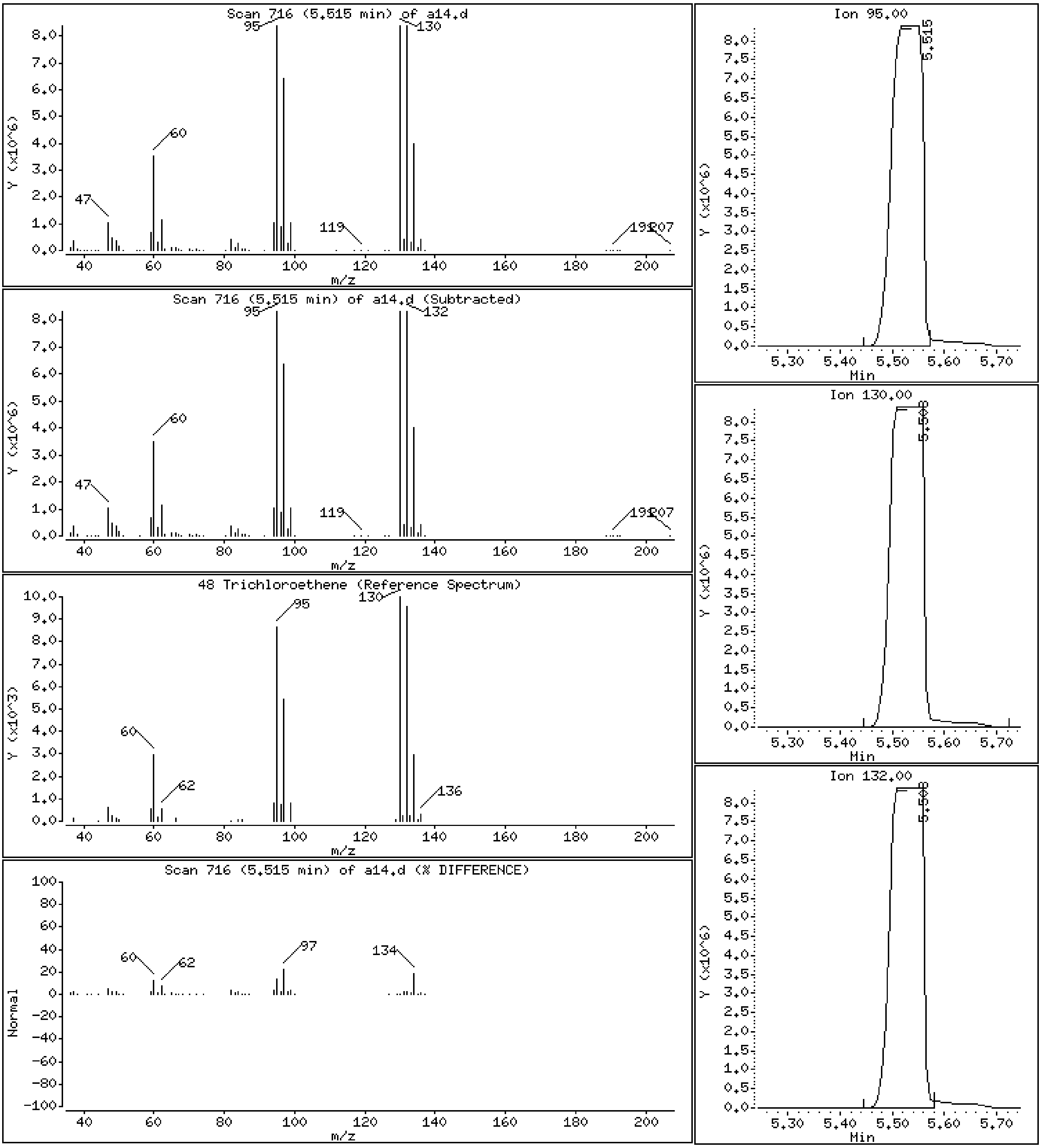
Column phase: DB-624

Column diameter: 0.18

48 Trichloroethene

Concentration: 14000 ppb

Review Code:



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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

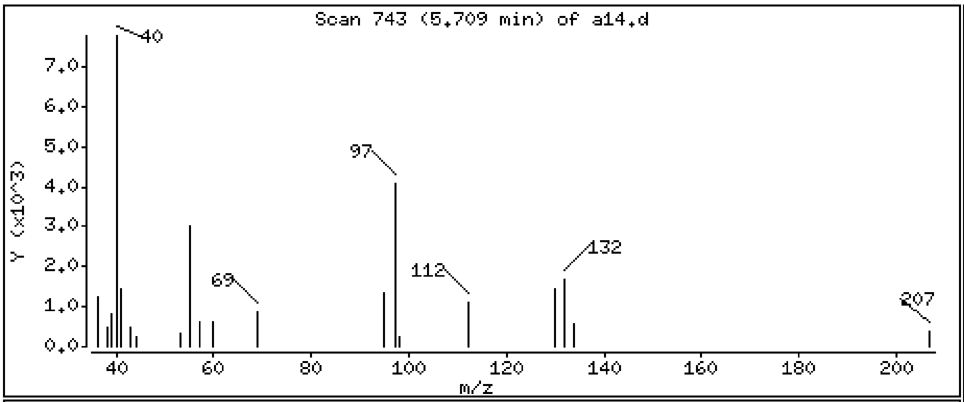
Column phase: DB-624

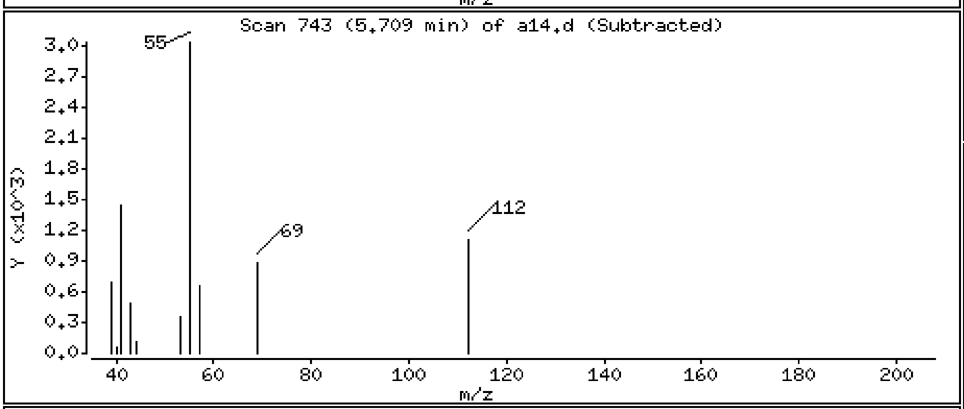
Column diameter: 0.18

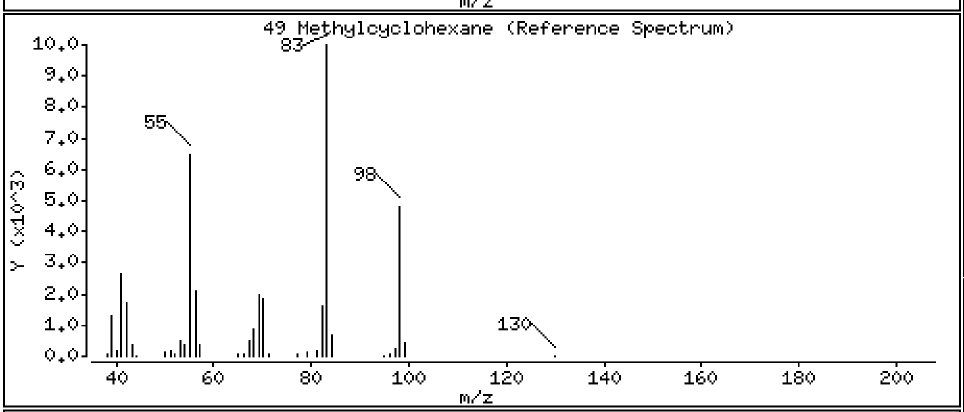
49 Methylcyclohexane

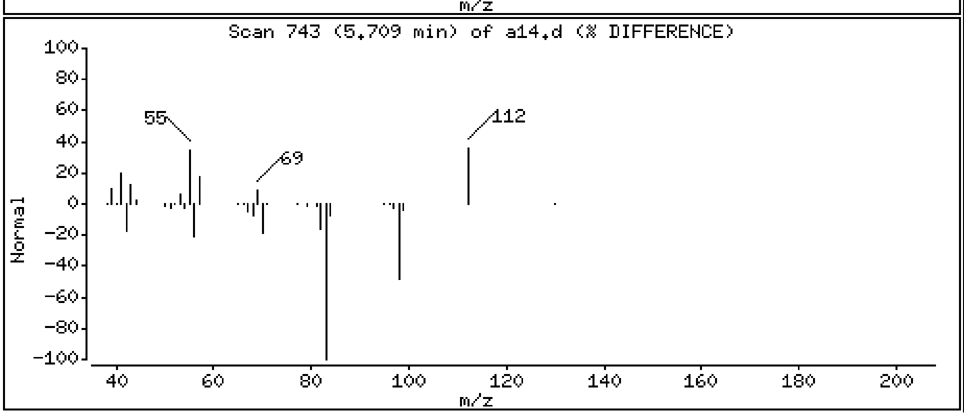
Concentration: 1.48 ppb

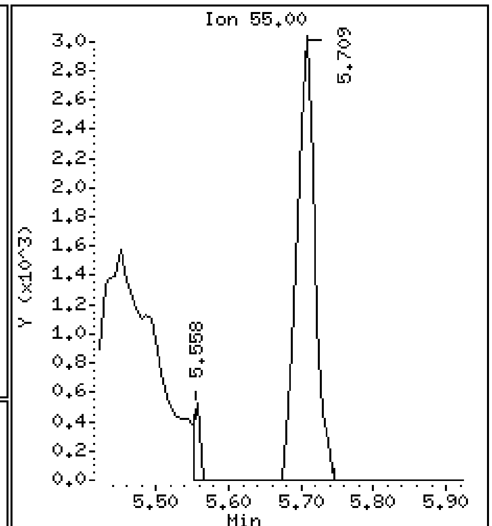
Review Code:

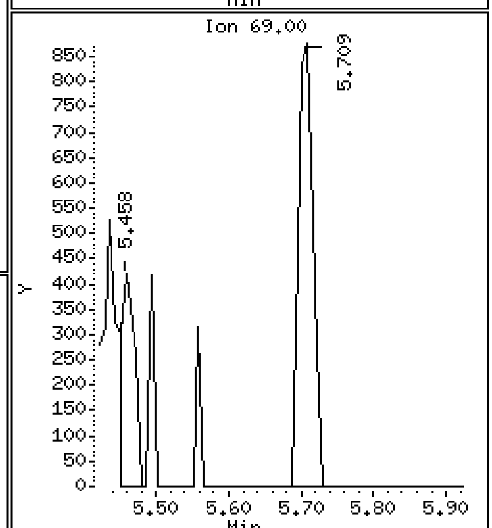


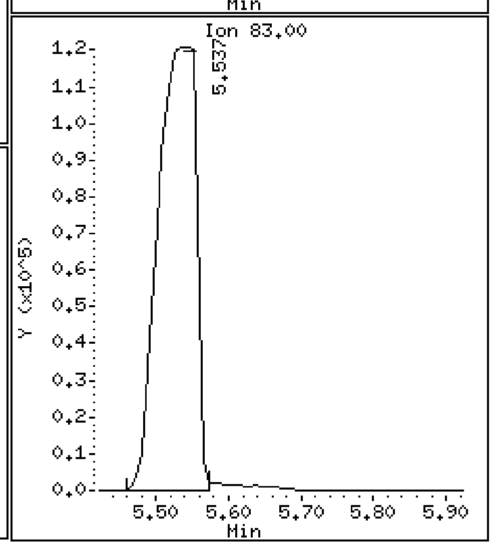












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Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

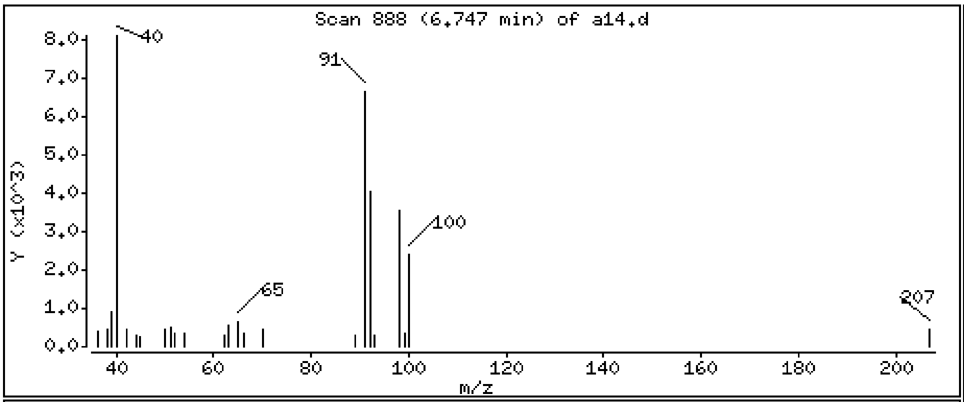
Column phase: DB-624

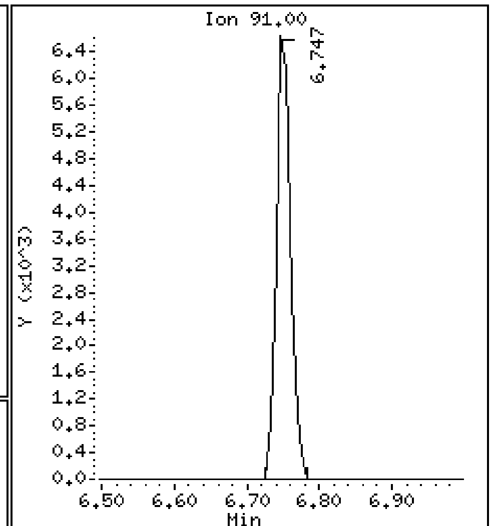
Column diameter: 0.18

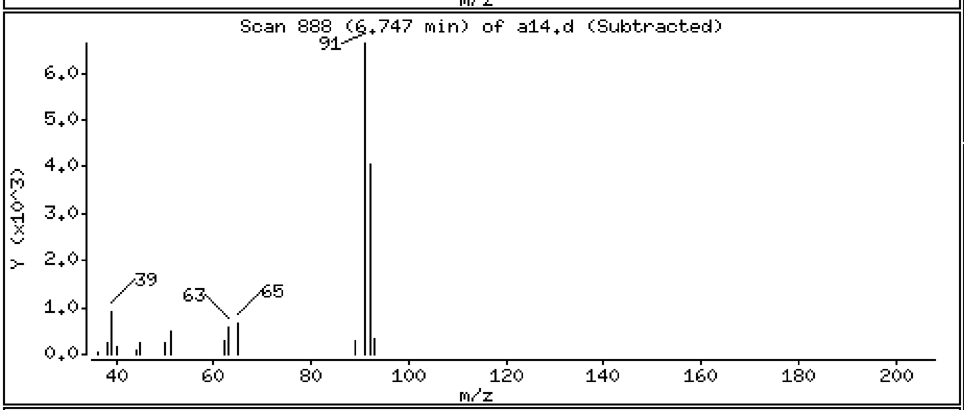
59 Toluene

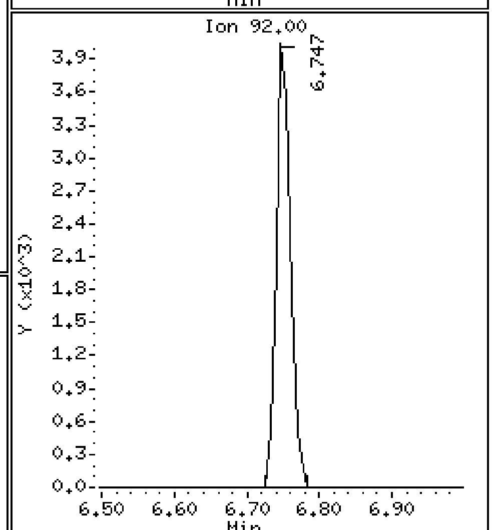
Concentration: 0.776 ppb

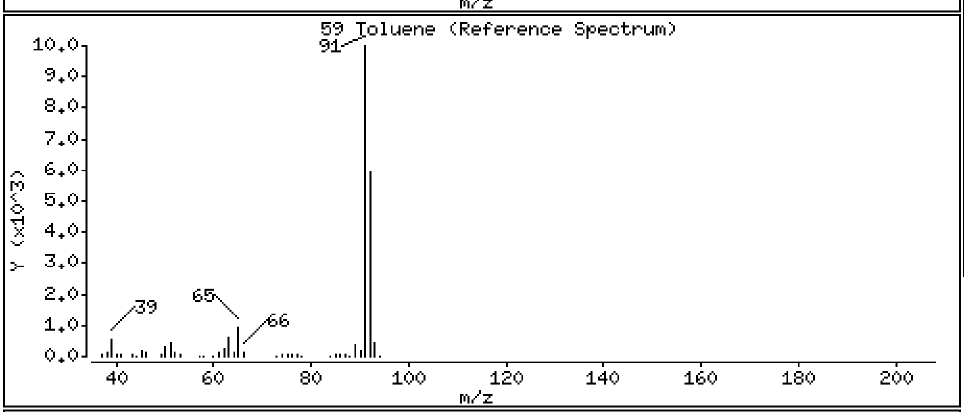
Review Code:

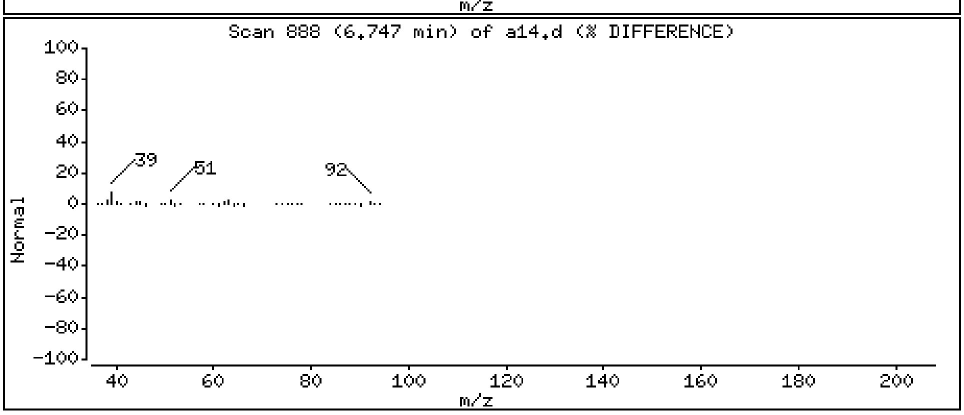












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a14.d

Date : 23-JAN-2023 16:29

Client ID: LA2269

Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0

Operator: tkg

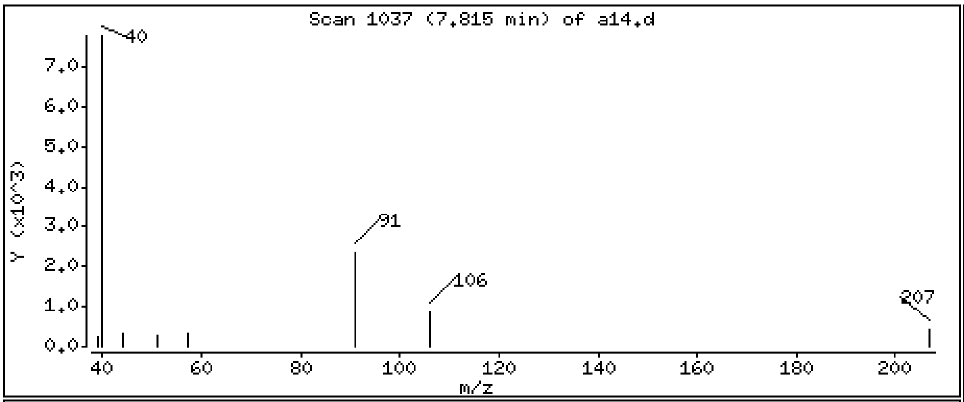
Column phase: DB-624

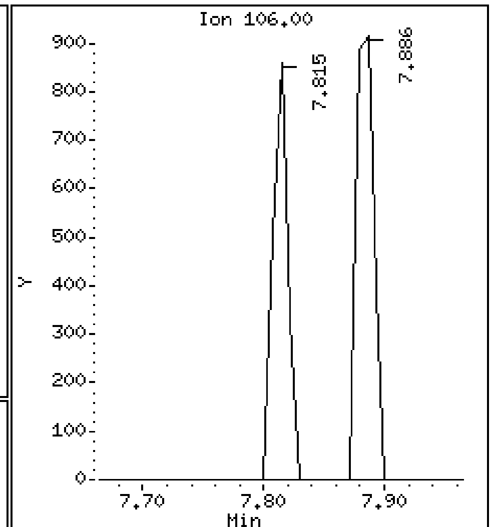
Column diameter: 0.18

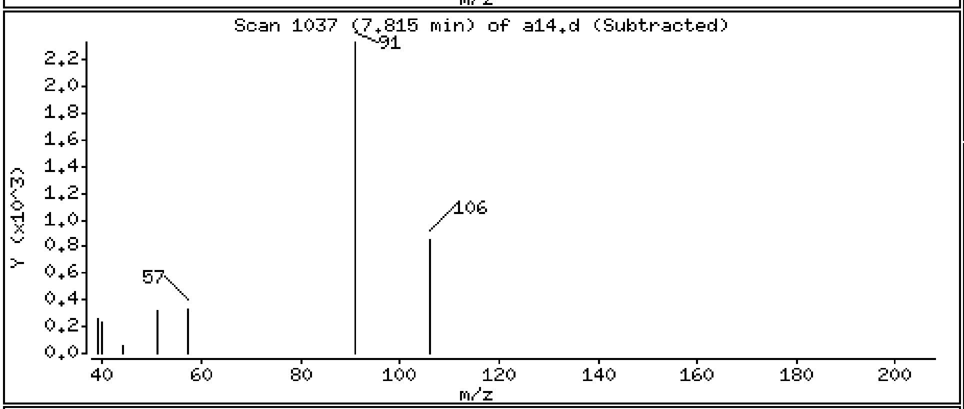
71 Ethylbenzene

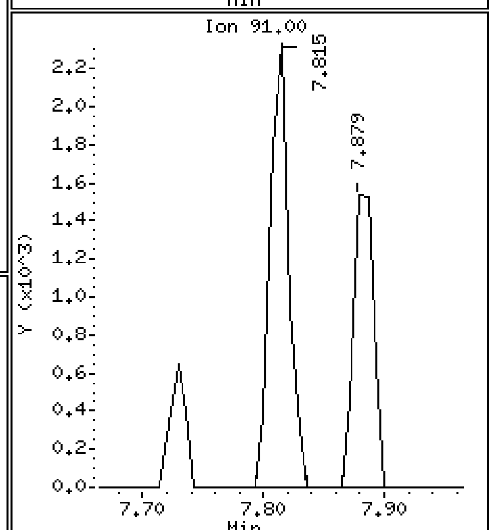
Concentration: 0.183 ppb

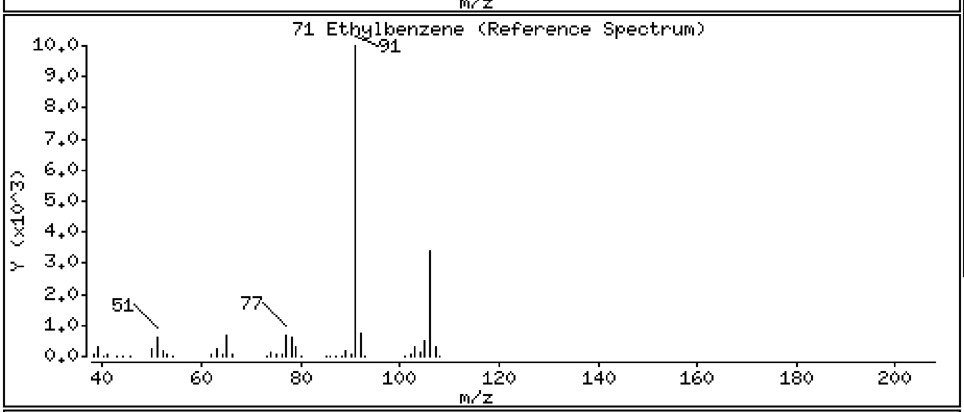
Review Code:

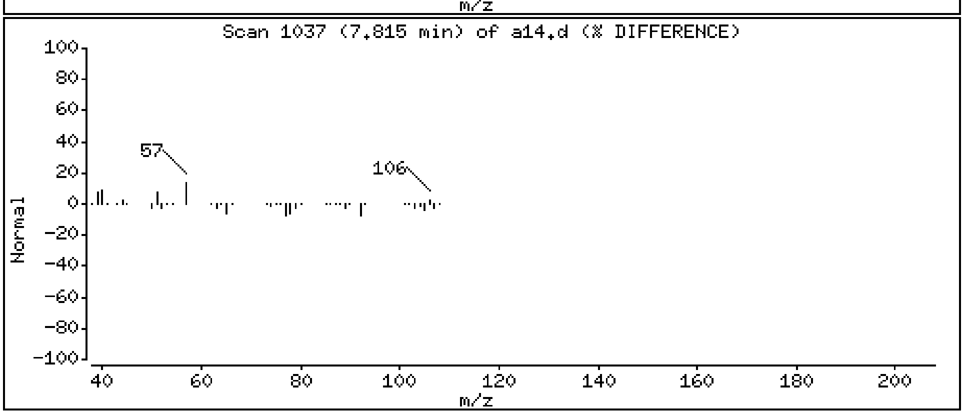












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a14.d

Date : 23-JAN-2023 16:29

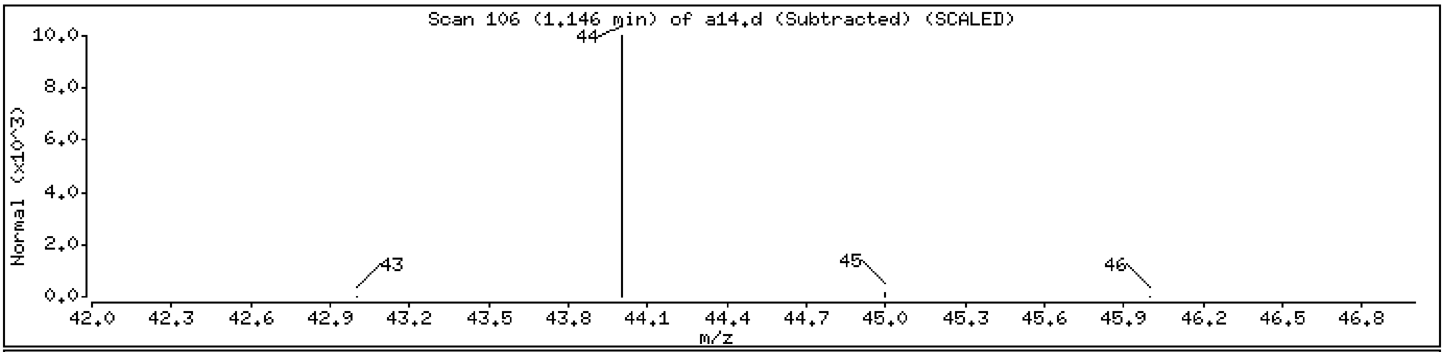
Client ID: LA2269 Instrument: 50mvda.i

Sample Info: 50335726005

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a14.d
Injection Date: 23-JAN-2023 16:29
Instrument: 50mvda.i
Lab Sample ID: 50335726005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LA2270

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana   Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35   Matrix: Water   SDG No.: 50335726
Date Extracted: 01/27/2023 13:02   Lab Sample ID: 50335726006
Date Analyzed: 01/27/2023 13:02   Lab File ID: A012723.B\A05.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

02/02/2023 6:30

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

LA2270

Lab Name: Pace Analytical - Indiana

Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35

Matrix: Water SDG No.: 50335726

Date Extracted: 01/27/2023 13:02

Lab Sample ID: 50335726006

Date Analyzed: 01/27/2023 13:02

Lab File ID: A012723.B\A05.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
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

02/02/2023 6:30

SAMPLE NO.

LA2270

MSV - FORM I VOA-TIC-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/27/2023 13:02
Lab Sample ID: 50335726006
Date Analyzed: 01/27/2023 13:02
Lab File ID: A012723.B\A05.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MV2A Percent Moisture:

CAS NO.	COMPOUND	RT	EST. CONC. UNITS: ug/L	Q
	Unknown	3.983	18.8	J

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012723.b\a05.d
Lab Smp Id: 50335726006 Client Smp ID: LA2270
Inj Date : 27-JAN-2023 13:02
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 50335726006
Misc Info : 166289
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012723.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:23 50mv2a.i Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 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	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	2.005	2.005	(0.455)	782	0.77707	0.777	
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						
23 1,1-Dichloroethane	63	Compound Not Detected.						

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	29 2,2-Dichloropropane	77	Compound Not Detected.						
	30 2-Butanone	43	Compound Not Detected.						
	31 Propionitrile	54	Compound Not Detected.						
	32 Ethyl Acetate	88	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	3.553	3.553	(0.806)	53475	50.6014	50.6	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	195055	50.0000	(Q)	
	48 Trichloroethene	95	Compound Not Detected.						
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.131	6.131	(0.839)	191859	49.3339	49.3	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	152992	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	73892	49.9698	50.0	
	78 Bromobenzene	77	Compound Not Detected.						

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	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	81689	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a05.d

Page 4

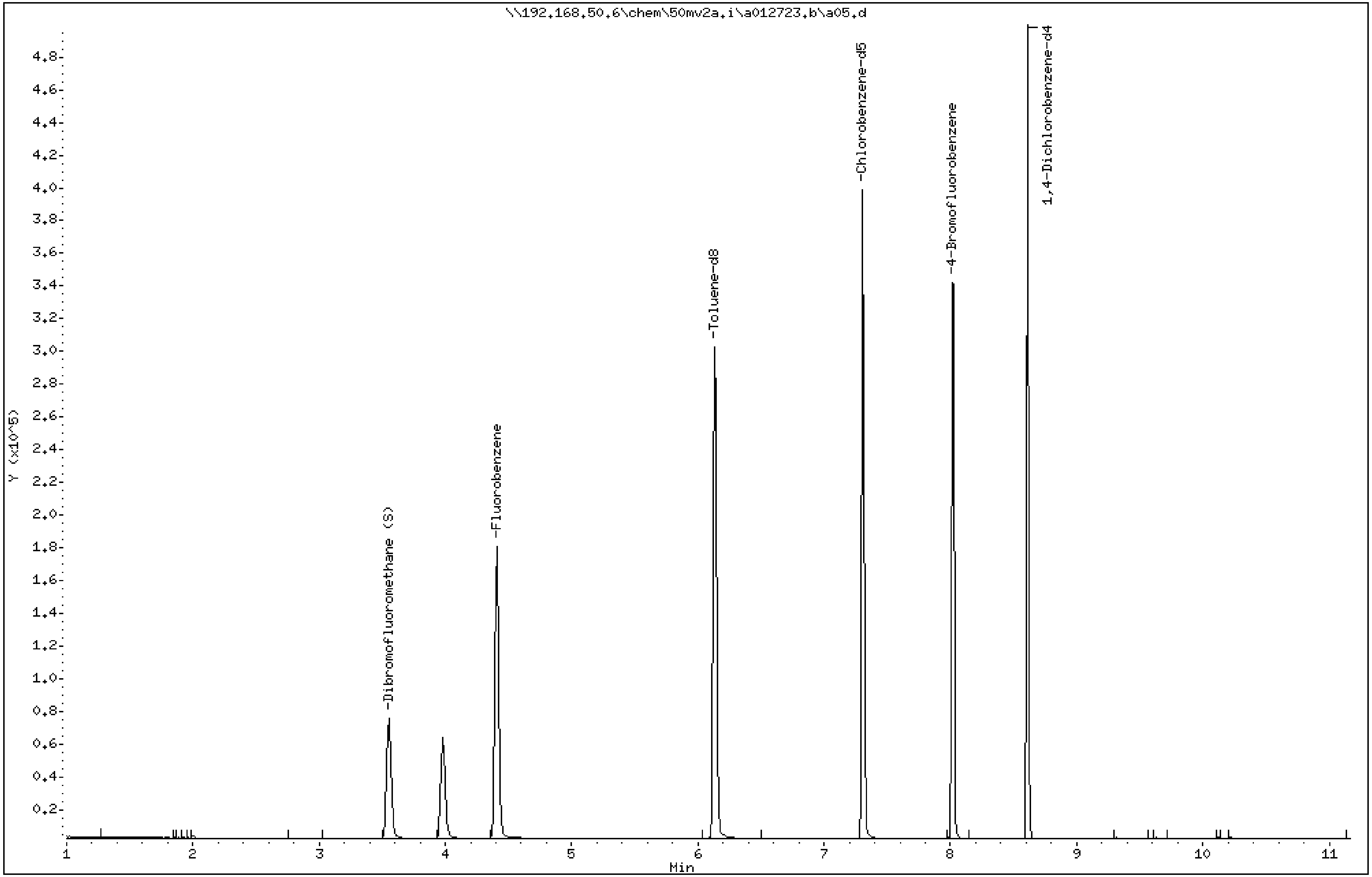
Date : 27-JAN-2023 13:02

Client ID: LA2270 | Instrument: 50mv2a.i

Sample Info: 50335726006

Purge Volume: 5.0 | Operator: tkg

Column phase: DB-624 | Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a05.d

Date : 27-JAN-2023 13:02

Client ID: LA2270

Instrument: 50mv2a.i

Sample Info: 50335726006

Purge Volume: 5.0

Operator: tkg

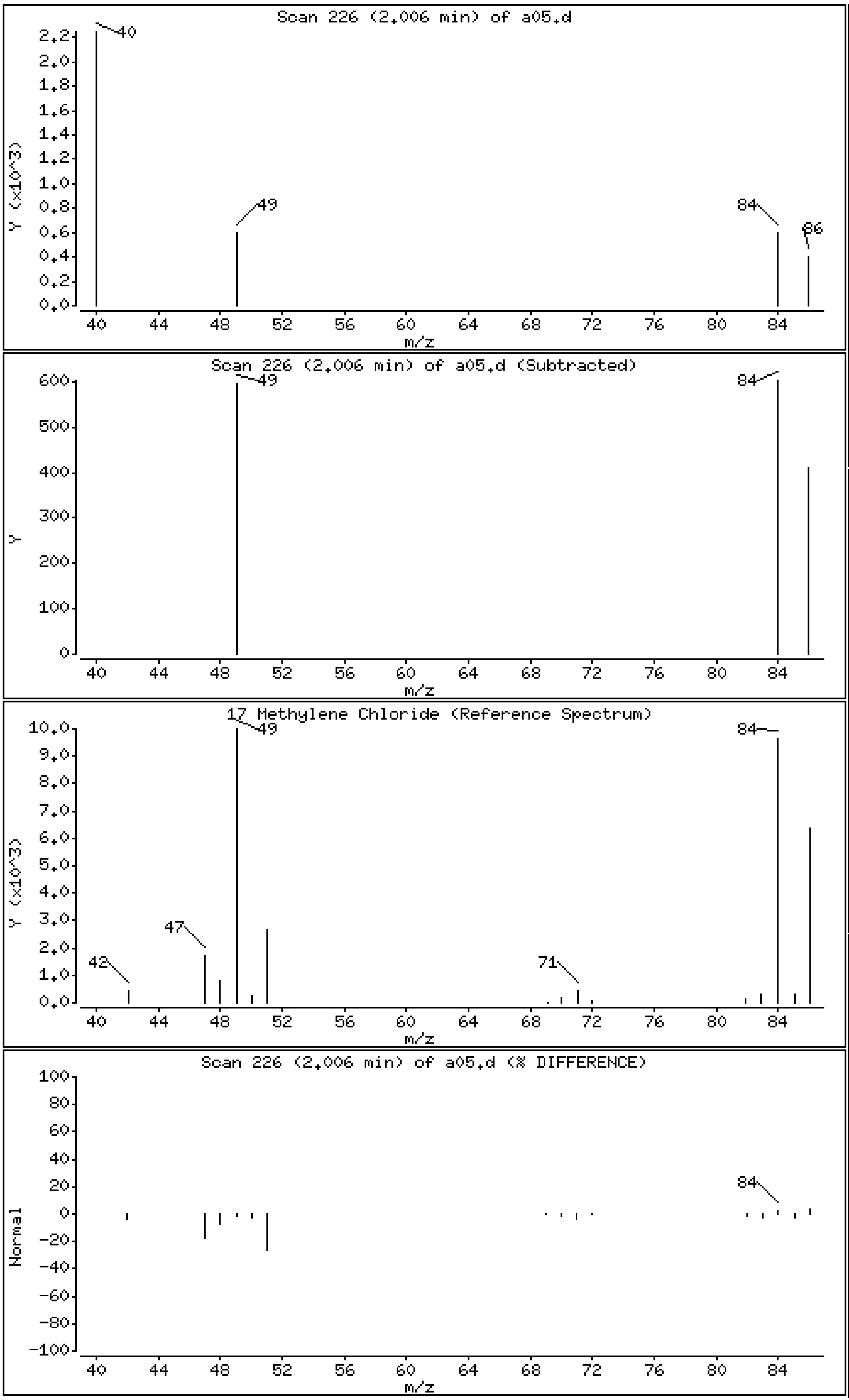
Column phase: DB-624

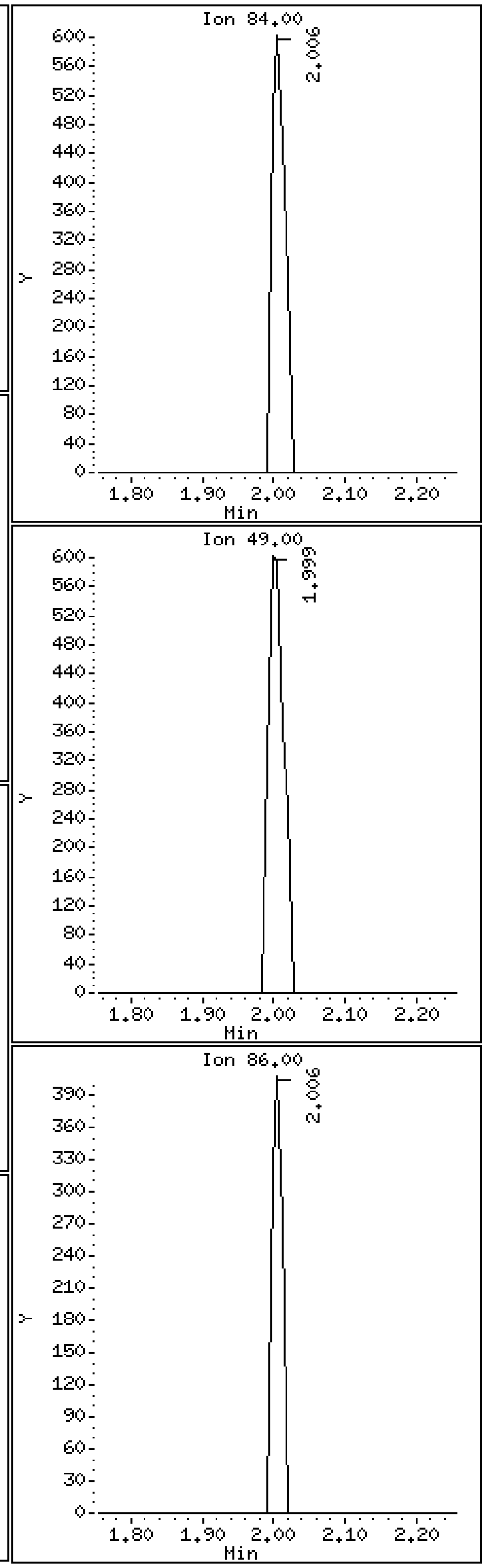
Column diameter: 0.18

17 Methylene Chloride

Concentration: 0.777 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a05.d Page 6

Date : 27-JAN-2023 13:02

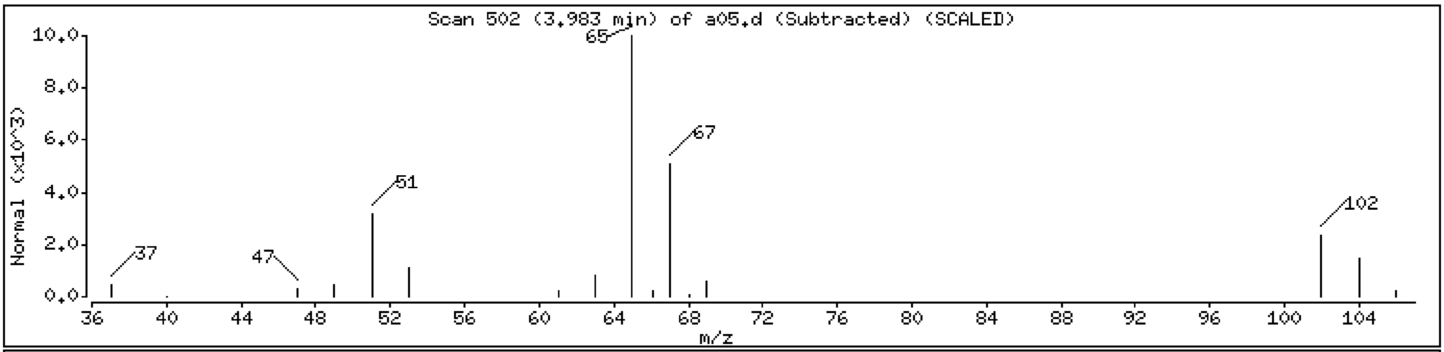
Client ID: LA2270 Instrument: 50mv2a.i

Sample Info: 50335726006

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a05.d
Injection Date: 27-JAN-2023 13:02
Instrument: 50mv2a.i
Lab Sample ID: 50335726006
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.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged	0.07144	0.08058	0.09542	0.08714	0.07973	0.08833
Acrolein	Averaged	0.03472	0.04284	0.04493	0.04725	0.05238	0.05103
Acrylonitrile	Wt Linear	0.04094	0.07215	0.09422	0.09328	0.09902	0.09932
Benzene	Averaged		0.81908	0.92653	0.91572	0.95139	0.91227
Bromobenzene	Averaged		0.54847	0.61613	0.55369	0.60572	0.55170
Bromochloromethane	Wt Linear		0.02624	0.10524	0.14011	0.16633	0.15215
Bromodichloromethane	Averaged		0.20403	0.28235	0.29344	0.30775	0.30862
Bromoform	Wt Linear		0.29220	0.36545	0.43313	0.47041	0.49305
Bromomethane	Wt Linear		0.03016	0.08463	0.20756	0.17774	0.15792
2-Butanone (MEK)	Averaged	0.07739	0.11624	0.12334	0.11895	0.11707	0.12079
n-Butylbenzene	Averaged		1.98093	2.13776	2.16296	2.27045	2.18283
sec-Butylbenzene	Averaged		2.81554	3.05695	3.10763	3.24050	3.05038
tert-Butylbenzene	Averaged		2.37605	2.58976	2.55109	2.66451	2.54265
Carbon disulfide	Averaged		0.47894	0.62112	0.58067	0.57462	0.54470
Carbon tetrachloride	Averaged		0.24106	0.28934	0.32868	0.35117	0.34640
Chlorobenzene	Averaged		0.89564	0.98697	0.97920	0.98706	0.97383
Chloroethane	Wt Linear		0.06523	0.08230	0.17873	0.14899	0.14687
Chloroform	Averaged		0.37276	0.43088	0.43107	0.44459	0.42842
Chloromethane	Wt Linear		0.05861	0.14289	0.22863	0.18026	0.18040
2-Chlorotoluene	Averaged		1.84429	1.98456	2.04437	2.07080	1.97099
4-Chlorotoluene	Averaged		0.59268	0.75722	0.76759	0.79494	0.75624
Dibromochloromethane	Averaged		0.24430	0.32136	0.32507	0.34952	0.35677
1,2-Dibromoethane (EDB)	Averaged	0.15770	0.28283	0.28837	0.32462	0.32901	0.34215
Dibromomethane	Averaged		0.09809	0.13529	0.15308	0.16148	0.15861
1,2-Dichlorobenzene	Averaged		1.17708	1.30394	1.32260	1.34840	1.30176
1,3-Dichlorobenzene	Averaged		1.44385	1.46240	1.46287	1.50133	1.43156
1,4-Dichlorobenzene	Averaged		1.31254	1.46152	1.45291	1.50133	1.44807
trans-1,4-Dichloro-2-butene	Wt Linear		0.05096	0.10616	0.11859	0.12156	0.12881
Dichlorodifluoromethane	Averaged	0.06238	0.10545	0.16902	0.34782	0.29463	0.31024
1,1-Dichloroethane	Averaged		0.30973	0.35717	0.37182	0.38942	0.38244
1,2-Dichloroethane	Averaged		0.27711	0.31448	0.31442	0.32853	0.32173
1,1-Dichloroethene	Averaged		0.16112	0.19563	0.20458	0.21653	0.20944
cis-1,2-Dichloroethene	Averaged		0.19815	0.24273	0.26839	0.27160	0.26706
trans-1,2-Dichloroethene	Averaged		0.16578	0.22556	0.23897	0.24827	0.23762
1,2-Dichloropropane	Averaged		0.15793	0.19735	0.21437	0.22214	0.21161

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.40036	0.46610	0.47193	0.47900	0.47780
2,2-Dichloropropane	Averaged		0.23641	0.29204	0.32068	0.33182	0.32374
1,1-Dichloropropene	Averaged		0.16578	0.26199	0.29046	0.31034	0.30048
cis-1,3-Dichloropropene	Averaged		0.34017	0.43696	0.46491	0.47815	0.48608
trans-1,3-Dichloropropene	Averaged		0.32583	0.39517	0.42609	0.45698	0.45664
Ethylbenzene	Averaged		0.46598	0.49717	0.52414	0.52753	0.51760
Ethyl methacrylate	Averaged		0.32838	0.38364	0.41211	0.43653	0.44458
Hexachloro-1,3-butadiene	Averaged		0.26381	0.37218	0.35426	0.38436	0.36862
n-Hexane	Averaged		0.23003	0.27830	0.29802	0.31183	0.29609
2-Hexanone	Averaged	0.16639	0.22168	0.26467	0.26893	0.26744	0.27540
Iodomethane	Wt Linear		0.15106	0.22446	0.35055	0.36730	0.37609
Isopropylbenzene (Cumene)	Averaged		1.54444	1.70702	1.68013	1.71607	1.67325
p-Isopropyltoluene	Averaged		2.41332	2.72834	2.74481	2.87480	2.72143
Methylene Chloride	Averaged		0.31684	0.30259	0.27451	0.26282	0.23544
4-Methyl-2-pentanone (MIBK)	Wt Linear	0.25033	0.30602	0.34515	0.35018	0.34810	0.35798
Methyl-tert-butyl ether	Averaged	0.48831	0.58586	0.68686	0.69961	0.72057	0.69487
Naphthalene	Averaged	1.65068	1.85317	2.00298	2.04402	2.13993	2.08768
n-Propylbenzene	Averaged		3.20001	3.46217	3.47853	3.59673	3.34314
Styrene	Averaged		0.91826	1.04397	1.06547	1.09527	1.07905
1,1,1,2-Tetrachloroethane	Averaged		0.25895	0.31287	0.32970	0.35137	0.35580
1,1,2,2-Tetrachloroethane	Averaged	0.50404	0.65479	0.74377	0.78224	0.79944	0.78353
Tetrachloroethene	Averaged		0.34494	0.42447	0.43362	0.44143	0.43392
Toluene	Averaged		1.27817	1.44362	1.42878	1.44266	1.41916
1,2,3-Trichlorobenzene	Averaged	0.44671	0.48089	0.64408	0.62954	0.65627	0.62106
1,2,4-Trichlorobenzene	Averaged		0.70211	0.73880	0.75622	0.78390	0.76464
1,1,1-Trichloroethane	Averaged		0.28104	0.36085	0.37227	0.39194	0.38525
1,1,2-Trichloroethane	Averaged		0.17231	0.21136	0.23764	0.23666	0.24091
Trichloroethene	Averaged		0.18564	0.23586	0.25885	0.26304	0.25623
Trichlorofluoromethane	Wt Linear		0.19888	0.27953	0.43226	0.38214	0.39767
1,2,3-Trichloropropane	Averaged		0.19697	0.25816	0.27094	0.28069	0.28189
1,2,4-Trimethylbenzene	Averaged		2.36659	2.62689	2.58578	2.66503	2.50213
1,3,5-Trimethylbenzene	Averaged		2.26012	2.55438	2.51277	2.62963	2.51565
Vinyl acetate	Averaged	0.37708	0.42640	0.46222	0.48472	0.52090	0.49297
Vinyl chloride	Wt Linear		0.07627	0.11260	0.29001	0.24149	0.23977
m&p-Xylene	Averaged		0.58191	0.65760	0.65613	0.66034	0.64237

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
o-Xylene	Averaged		0.54146	0.61725	0.61743	0.63273	0.62579
4-Bromofluorobenzene (S)	Averaged	0.48381	0.47939	0.48935	0.48593	0.48559	0.50072
Dibromofluoromethane (S)	Averaged	0.27085	0.27003	0.27121	0.27231	0.27381	0.27325
Toluene-d8 (S)	Averaged	1.25383	1.27959	1.27968	1.27712	1.26988	1.28854

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-4
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D
CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D
CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
Acetone	Averaged	0.07850	0.06522	0.05469
Acrolein	Averaged	0.05019	0.04800	0.04711
Acrylonitrile	Wt Linear	0.09646	0.09303	0.08717
Benzene	Averaged	0.90965	0.91743	0.90078
Bromobenzene	Averaged	0.57701	0.56637	0.53266
Bromochloromethane	Wt Linear	0.14825	0.14347	
Bromodichloromethane	Averaged	0.31637	0.33291	0.32939
Bromoform	Wt Linear	0.51573	0.58406	0.58732
Bromomethane	Wt Linear	0.15376	0.15291	0.14713
2-Butanone (MEK)	Averaged	0.11469	0.09929	0.08729
n-Butylbenzene	Averaged	2.11134	2.15377	1.98677
sec-Butylbenzene	Averaged	3.01614	2.99352	2.74698
tert-Butylbenzene	Averaged	2.48872	2.49665	2.33053
Carbon disulfide	Averaged	0.54563	0.51243	0.45487
Carbon tetrachloride	Averaged	0.36556	0.39459	0.39765
Chlorobenzene	Averaged	0.95191	0.94286	0.90360
Chloroethane	Wt Linear	0.14454	0.14225	0.14090
Chloroform	Averaged	0.43386	0.44220	0.40406
Chloromethane	Wt Linear	0.17904	0.17573	0.18240
2-Chlorotoluene	Averaged	1.92211	1.89112	1.75401
4-Chlorotoluene	Averaged	0.74763	0.75632	0.67202
Dibromochloromethane	Averaged	0.36867	0.38785	0.38955
1,2-Dibromoethane (EDB)	Averaged	0.32892	0.33925	0.33231
Dibromomethane	Averaged	0.15934	0.16795	0.15305
1,2-Dichlorobenzene	Averaged	1.28000	1.32055	1.22023
1,3-Dichlorobenzene	Averaged	1.40013	1.45569	1.37068
1,4-Dichlorobenzene	Averaged	1.40669	1.41954	1.33818
trans-1,4-Dichloro-2-butene	Wt Linear	0.12509	0.12287	0.11661
Dichlorodifluoromethane	Averaged	0.30970	0.31000	0.32184
1,1-Dichloroethane	Averaged	0.38196	0.35750	0.33993
1,2-Dichloroethane	Averaged	0.31932	0.33016	0.31704
1,1-Dichloroethene	Averaged	0.21247	0.21234	0.20229
cis-1,2-Dichloroethene	Averaged	0.27011	0.27279	0.26316
trans-1,2-Dichloroethene	Averaged	0.24319	0.24845	0.23911
1,2-Dichloropropane	Averaged	0.21492	0.21923	0.21572

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: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
1,3-Dichloropropane	Averaged	0.46159	0.46629	0.46323
2,2-Dichloropropane	Averaged	0.32829	0.34094	0.33690
1,1-Dichloropropene	Averaged	0.30378	0.31561	0.31056
cis-1,3-Dichloropropene	Averaged	0.48201	0.49597	0.49693
trans-1,3-Dichloropropene	Averaged	0.46468	0.47374	0.46602
Ethylbenzene	Averaged	0.51249	0.51327	0.49411
Ethyl methacrylate	Averaged	0.43733	0.45238	0.44707
Hexachloro-1,3-butadiene	Averaged	0.38125	0.42803	0.44941
n-Hexane	Averaged	0.30370	0.31343	0.30751
2-Hexanone	Averaged	0.26177	0.24344	
Iodomethane	Wt Linear	0.38390	0.37955	0.33343
Isopropylbenzene (Cumene)	Averaged	1.62785	1.56261	1.45406
p-Isopropyltoluene	Averaged	2.67412	2.67793	2.42915
Methylene Chloride	Averaged	0.22700	0.22607	0.21844
4-Methyl-2-pentanone (MIBK)	Wt Linear	0.33705		
Methyl-tert-butyl ether	Averaged	0.68860	0.70636	0.68485
Naphthalene	Averaged	2.04707	2.12736	2.03836
n-Propylbenzene	Averaged	3.35411	3.28020	2.95977
Styrene	Averaged	1.06030	1.02076	0.93897
1,1,1,2-Tetrachloroethane	Averaged	0.35382	0.36922	0.36172
1,1,2,2-Tetrachloroethane	Averaged	0.76448	0.77911	0.74228
Tetrachloroethene	Averaged	0.43537	0.45021	0.45060
Toluene	Averaged	1.37237	1.37765	1.33747
1,2,3-Trichlorobenzene	Averaged	0.63117	0.66291	0.66744
1,2,4-Trichlorobenzene	Averaged	0.75628	0.82334	0.80669
1,1,1-Trichloroethane	Averaged	0.39720	0.41692	0.41757
1,1,2-Trichloroethane	Averaged	0.23342	0.24123	0.23834
Trichloroethene	Averaged	0.25918	0.27014	0.26927
Trichlorofluoromethane	Wt Linear	0.39485	0.37915	0.36789
1,2,3-Trichloropropane	Averaged	0.27117	0.28109	0.27619
1,2,4-Trimethylbenzene	Averaged	2.49240	2.44779	2.25126
1,3,5-Trimethylbenzene	Averaged	2.43751	2.42382	2.15177
Vinyl acetate	Averaged	0.48871	0.47800	0.46996
Vinyl chloride	Wt Linear	0.23743	0.23809	
m&p-Xylene	Averaged	0.63874	0.62253	0.60221

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
o-Xylene	Averaged	0.61194	0.60309	0.56117
4-Bromofluorobenzene (S)	Averaged	0.48832	0.47134	0.46500
Dibromofluoromethane (S)	Averaged	0.27727	0.27475	0.25457
Toluene-d8 (S)	Averaged	1.27142	1.24659	1.27215

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-7

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D

CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D

CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	16.06942			0.07790	
Acrolein	Averaged	11.44351			0.04650	
Acrylonitrile	Wt Linear		0.99774	-0.0010067	0.09052	
Benzene	Averaged	4.23907			0.90661	
Bromobenzene	Averaged	5.10973			0.56897	
Bromochloromethane	Wt Linear		0.99722	-0.0016180	0.14766	
Bromodichloromethane	Averaged	13.85057			0.29686	
Bromoform	Wt Linear		0.99794	-0.0094130	0.57827	
Bromomethane	Wt Linear		0.99585	-0.0010413	0.15121	
2-Butanone (MEK)	Averaged	15.14781			0.10834	
n-Butylbenzene	Averaged	4.60621			2.12335	
sec-Butylbenzene	Averaged	5.24116			3.00345	
tert-Butylbenzene	Averaged	4.36194			2.50500	
Carbon disulfide	Averaged	10.21187			0.53912	
Carbon tetrachloride	Averaged	15.59553			0.33931	
Chlorobenzene	Averaged	3.81936			0.95263	
Chloroethane	Wt Linear		0.99833	-0.0009771	0.14271	
Chloroform	Averaged	5.63794			0.42348	
Chloromethane	Wt Linear		0.99840	-0.0012876	0.18113	
2-Chlorotoluene	Averaged	5.42749			1.93528	
4-Chlorotoluene	Averaged	9.00216			0.73058	
Dibromochloromethane	Averaged	13.76856			0.34288	
1,2-Dibromoethane (EDB)	Averaged	19.27631			0.30280	
Dibromomethane	Averaged	15.12177			0.14836	
1,2-Dichlorobenzene	Averaged	4.48250			1.28432	
1,3-Dichlorobenzene	Averaged	2.81312			1.44107	
1,4-Dichlorobenzene	Averaged	4.50782			1.41760	
trans-1,4-Dichloro-2-butene	Wt Linear		0.99860	-0.0007461	0.12010	
Dichlorodifluoromethane	Averaged	42.81692			0.24790	
1,1-Dichloroethane	Averaged	7.34054			0.36125	
1,2-Dichloroethane	Averaged	5.24598			0.31535	
1,1-Dichloroethene	Averaged	8.78736			0.20180	
cis-1,2-Dichloroethene	Averaged	9.95172			0.25675	
trans-1,2-Dichloroethene	Averaged	11.81435			0.23087	
1,2-Dichloropropane	Averaged	10.17186			0.20666	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-8
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D
CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D
CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	5.47870			0.46079	
2,2-Dichloropropane	Averaged	11.04672			0.31385	
1,1-Dichloropropene	Averaged	17.72870			0.28238	
cis-1,3-Dichloropropene	Averaged	11.34190			0.46015	
trans-1,3-Dichloropropene	Averaged	11.65888			0.43315	
Ethylbenzene	Averaged	3.97749			0.50654	
Ethyl methacrylate	Averaged	10.19475			0.41775	
Hexachloro-1,3-butadiene	Averaged	14.70667			0.37524	
n-Hexane	Averaged	9.42016			0.29236	
2-Hexanone	Averaged	14.86887			0.24621	
Iodomethane	Wt Linear		0.99501	-0.0028907	0.35476	
Isopropylbenzene (Cumene)	Averaged	5.70531			1.62068	
p-Isopropyltoluene	Averaged	5.97250			2.65799	
Methylene Chloride	Averaged	14.50512			0.25796	
4-Methyl-2-pentanone (MIBK)	Wt Linear		0.99901	-0.0032262	0.34567	
Methyl-tert-butyl ether	Averaged	11.42173			0.66177	
Naphthalene	Averaged	7.76376			1.99903	
n-Propylbenzene	Averaged	5.86532			3.33433	
Styrene	Averaged	6.35443			1.02776	
1,1,1,2-Tetrachloroethane	Averaged	10.77866			0.33668	
1,1,2,2-Tetrachloroethane	Averaged	12.94093			0.72819	
Tetrachloroethene	Averaged	8.02120			0.42682	
Toluene	Averaged	4.19200			1.38749	
1,2,3-Trichlorobenzene	Averaged	13.51753			0.60445	
1,2,4-Trichlorobenzene	Averaged	4.99851			0.76650	
1,1,1-Trichloroethane	Averaged	11.58909			0.37788	
1,1,2-Trichloroethane	Averaged	10.56203			0.22648	
Trichloroethene	Averaged	11.21193			0.24978	
Trichlorofluoromethane	Wt Linear		0.99863	-0.0018912	0.37627	
1,2,3-Trichloropropane	Averaged	10.74771			0.26464	
1,2,4-Trimethylbenzene	Averaged	5.52400			2.49223	
1,3,5-Trimethylbenzene	Averaged	6.50294			2.43571	
Vinyl acetate	Averaged	9.04239			0.46677	
Vinyl chloride	Wt Linear		0.99675	-0.0027231	0.24160	
m&p-Xylene	Averaged	4.50024			0.63273	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-9
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV2A GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/24/2023 01/24/2023 Calibration Time(s): 14:21 18:14

LAB FILE ID

CAL1 = A012423CAL.B\A05CAL1.D CAL2 = A012423CAL.B\A06CAL2.D CAL3 = A012423CAL.B\A07CAL3.D
CAL4 = A012423CAL.B\A08CAL4.D CAL5 = A012423CAL.B\A09CAL5.D CAL6 = A012423CAL.B\A10CAL6.D
CAL7 = A012423CAL.B\A11CAL7.D CAL8 = A012423CAL.B\A12CAL8.D CAL9 = A012423CAL.B\A13CAL9.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
o-Xylene	Averaged	5.41023			0.60136	
4-Bromofluorobenzene (S)	Averaged	2.15877			0.48327	
Dibromofluoromethane (S)	Averaged	2.40231			0.27090	
Toluene-d8 (S)	Averaged	1.03620			1.27098	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-1

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 =	B011623CAL.B\B01.D	CAL2 =	B011623CAL.B\B02.D	CAL3 =	B011623CAL.B\B03.D
CAL4 =	B011623CAL.B\B04.D	CAL5 =	B011623CAL.B\B05.D	CAL6 =	B011623CAL.B\B06.D
CAL7 =	B011623CAL.B\B07.D	CAL8 =	B011623CAL.B\B08.D	CAL9 =	B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.11278	0.11381	0.08851	0.10273	0.08250
Acrolein	Averaged		0.04836	0.06344	0.05552	0.07106	0.06737
Acrylonitrile	Averaged	0.08797	0.09067	0.11752	0.11309	0.13112	0.11971
Benzene	Averaged		1.74690	1.54558	1.32754	1.21309	1.18287
Bromobenzene	Averaged		1.23213	1.08226	0.92470	0.89248	0.83327
Bromochloromethane	Averaged		0.29697	0.30155	0.24090	0.24353	0.21698
Bromodichloromethane	Wt Linear		0.58526	0.54026	0.39708	0.35834	0.34852
Bromoform	Averaged		0.76757	0.68572	0.61050	0.58260	0.59027
Bromomethane	Averaged		0.12301	0.17802	0.14441	0.17302	0.17819
2-Butanone (MEK)	Averaged		0.15082	0.16246	0.14075	0.15373	0.13488
n-Butylbenzene	Averaged		2.58495	2.35982	2.23128	2.51027	2.27002
sec-Butylbenzene	Averaged		3.49198	3.32150	3.19135	3.34766	3.27885
tert-Butylbenzene	Averaged		2.90924	2.80544	2.60332	2.62927	2.65252
Carbon disulfide	Averaged		1.02772	1.03269	0.89731	0.96171	0.85276
Carbon tetrachloride	Averaged		0.36993	0.42031	0.38716	0.38364	0.38632
Chlorobenzene	Averaged		1.60114	1.40561	1.21375	1.18585	1.15489
Chloroethane	Averaged		0.19153	0.20171	0.18510	0.23640	0.22802
Chloroform	Averaged		0.74409	0.64974	0.53501	0.52252	0.48383
Chloromethane	Averaged	0.00000	0.35592	0.35438	0.28388	0.34141	0.33673
2-Chlorotoluene	Averaged		2.90537	2.56692	2.32044	2.35529	2.24853
4-Chlorotoluene	Averaged		1.13724	0.97713	0.87428	0.88590	0.87679
Dibromochloromethane	Averaged		0.58719	0.51952	0.42671	0.43565	0.40145
1,2-Dibromoethane (EDB)	Averaged		0.53302	0.46663	0.41116	0.40545	0.37600
Dibromomethane	Averaged		0.25782	0.22931	0.18510	0.17288	0.16831
1,2-Dichlorobenzene	Averaged		1.97288	1.70421	1.51675	1.62347	1.42628
1,3-Dichlorobenzene	Averaged		1.94521	1.79088	1.59726	1.58907	1.56815
1,4-Dichlorobenzene	Averaged		2.14942	1.85031	1.62015	1.62711	1.59749
trans-1,4-Dichloro-2-butene	Averaged		0.16520	0.17156	0.15073	0.15604	0.14761
Dichlorodifluoromethane	Averaged		0.20955	0.32570	0.30614	0.38487	0.38025
1,1-Dichloroethane	Averaged		0.68492	0.63118	0.52302	0.51102	0.48128
1,2-Dichloroethane	Wt Linear		0.55746	0.49742	0.38562	0.37050	0.35259
1,1-Dichloroethene	Averaged		0.28318	0.29262	0.26189	0.28224	0.26622
cis-1,2-Dichloroethene	Averaged		0.41976	0.37997	0.34872	0.35011	0.31493
trans-1,2-Dichloroethene	Averaged		0.34880	0.34248	0.30663	0.32697	0.29108
1,2-Dichloropropane	Wt Linear		0.52120	0.38949	0.31179	0.32334	0.28086

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-2
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D
CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D
CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.95919	0.80184	0.66729	0.67918	0.59653
2,2-Dichloropropane	Averaged		0.48583	0.47029	0.40259	0.42581	0.39538
1,1-Dichloropropene	Averaged		0.37861	0.41960	0.38602	0.38139	0.38102
cis-1,3-Dichloropropene	Averaged		0.96368	0.84257	0.67298	0.61694	0.57497
trans-1,3-Dichloropropene	Averaged		0.81584	0.70383	0.60403	0.55767	0.54907
Ethylbenzene	Averaged		0.76137	0.69255	0.62237	0.63398	0.62205
Ethyl methacrylate	Averaged		0.61861	0.58677	0.50733	0.55952	0.52589
Hexachloro-1,3-butadiene	Averaged		0.37189	0.39274	0.41256	0.40496	0.39460
n-Hexane	Averaged		0.30898	0.36390	0.37698	0.42999	0.39354
2-Hexanone	Averaged		0.32184	0.32050	0.30630	0.33416	0.30265
Iodomethane	Averaged		0.37616	0.38425	0.35794	0.38920	0.38604
Isopropylbenzene (Cumene)	Averaged		2.04887	1.99721	1.79108	1.87506	1.90269
p-Isopropyltoluene	Averaged		3.09408	2.95652	2.79789	2.91802	2.86461
Methylene Chloride	Wt Linear		0.85465	0.64129	0.45470	0.40877	0.33305
4-Methyl-2-pentanone (MIBK)	Averaged		0.42713	0.45028	0.41313	0.42568	0.39604
Methyl-tert-butyl ether	Averaged		1.06398	1.04483	0.86209	0.86738	0.80047
Naphthalene	Averaged		2.63088	2.33442	2.40633	2.40615	2.40921
n-Propylbenzene	Averaged		4.27781	4.12294	3.82960	3.99874	3.86094
Styrene	Averaged		1.49789	1.35242	1.23615	1.29581	1.27264
1,1,1,2-Tetrachloroethane	Averaged		0.51596	0.49945	0.42544	0.40655	0.39191
1,1,2,2-Tetrachloroethane	Averaged		1.38185	1.23398	1.03920	0.95175	0.92334
Tetrachloroethene	Averaged		0.58569	0.56025	0.48951	0.54868	0.47770
Toluene	Averaged		2.52143	2.22122	1.88203	1.83368	1.64845
1,2,3-Trichlorobenzene	Averaged		0.86663	0.65325	0.73458	0.69573	0.68836
1,2,4-Trichlorobenzene	Averaged		1.11345	0.77474	0.83988	0.81686	0.81730
1,1,1-Trichloroethane	Averaged		0.50985	0.48326	0.43217	0.44049	0.41999
1,1,2-Trichloroethane	Averaged		0.43964	0.36202	0.31644	0.31624	0.28510
Trichloroethene	Averaged		0.40664	0.37128	0.31280	0.33845	0.29988
Trichlorofluoromethane	Averaged		0.37549	0.42198	0.36001	0.46167	0.43752
1,2,3-Trichloropropane	Averaged		0.39956	0.36603	0.33268	0.32350	0.29608
1,2,4-Trimethylbenzene	Averaged		3.15274	2.78293	2.69079	2.76137	2.72362
1,3,5-Trimethylbenzene	Averaged		3.02712	2.84917	2.61926	2.75437	2.72771
Vinyl acetate	Averaged	0.59866	0.50735	0.57760	0.53507	0.61929	0.64514
Vinyl chloride	Averaged	0.32754	0.35281	0.37580	0.31333	0.39240	0.37584
m&p-Xylene	Averaged	0.00000	1.04209	0.90103	0.78210	0.78904	0.78840

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D

CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D

CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
o-Xylene	Averaged		0.89125	0.81298	0.74791	0.72777	0.75645
4-Bromofluorobenzene (S)	Averaged	0.47162	0.46665	0.48312	0.47608	0.47507	0.45005
Dibromofluoromethane (S)	Averaged	0.23319	0.20748	0.23108	0.23682	0.22867	0.23081
Toluene-d8 (S)	Averaged	1.34497	1.30471	1.33908	1.31161	1.30247	1.22821

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-4
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D
CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D
CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
Acetone	Averaged	0.08612	0.07182	0.06737
Acrolein	Averaged	0.06482	0.06383	0.06003
Acrylonitrile	Averaged	0.12215	0.12023	0.11525
Benzene	Averaged	1.25973	1.25237	1.21979
Bromobenzene	Averaged	0.93605	0.89882	0.82007
Bromochloromethane	Averaged	0.22298	0.19237	0.18240
Bromodichloromethane	Wt Linear	0.36227	0.36754	0.36418
Bromoform	Averaged	0.61830	0.64774	0.61999
Bromomethane	Averaged	0.17392	0.19505	0.19606
2-Butanone (MEK)	Averaged	0.13605	0.11186	0.10855
n-Butylbenzene	Averaged	2.43483	2.40213	2.35806
sec-Butylbenzene	Averaged	3.54128	3.49365	3.32656
tert-Butylbenzene	Averaged	2.95115	2.88652	2.75618
Carbon disulfide	Averaged	0.88578	0.89579	0.86506
Carbon tetrachloride	Averaged	0.40315	0.40621	0.39826
Chlorobenzene	Averaged	1.20886	1.18867	1.12562
Chloroethane	Averaged	0.20569	0.21151	0.20081
Chloroform	Averaged	0.50228	0.47507	0.46063
Chloromethane	Averaged	0.31991	0.33857	0.33330
2-Chlorotoluene	Averaged	2.46111	2.44928	2.32122
4-Chlorotoluene	Averaged	0.92292	0.87942	0.81535
Dibromochloromethane	Averaged	0.42576	0.42112	0.41505
1,2-Dibromoethane (EDB)	Averaged	0.39166	0.38153	0.37061
Dibromomethane	Averaged	0.17120	0.17397	0.17157
1,2-Dichlorobenzene	Averaged	1.53311	1.51877	1.45790
1,3-Dichlorobenzene	Averaged	1.67980	1.66401	1.56436
1,4-Dichlorobenzene	Averaged	1.66305	1.64202	1.60731
trans-1,4-Dichloro-2-butene	Averaged	0.14168	0.14027	0.12725
Dichlorodifluoromethane	Averaged	0.35439	0.37380	0.35591
1,1-Dichloroethane	Averaged	0.50898	0.50628	0.48483
1,2-Dichloroethane	Wt Linear	0.36507	0.32754	0.32654
1,1-Dichloroethene	Averaged	0.27892	0.28337	0.27402
cis-1,2-Dichloroethene	Averaged	0.33462	0.33566	0.32667
trans-1,2-Dichloroethene	Averaged	0.31265	0.31034	0.29836
1,2-Dichloropropane	Wt Linear	0.29960	0.29994	0.29322

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D

CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D

CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
1,3-Dichloropropane	Averaged	0.62964	0.59284	0.56769
2,2-Dichloropropane	Averaged	0.41611	0.40197	0.39118
1,1-Dichloropropene	Averaged	0.39527	0.39360	0.38412
cis-1,3-Dichloropropene	Averaged	0.67711	0.64043	0.62563
trans-1,3-Dichloropropene	Averaged	0.59697	0.56654	0.56352
Ethylbenzene	Averaged	0.66656	0.65227	0.61284
Ethyl methacrylate	Averaged	0.59274	0.56241	0.54826
Hexachloro-1,3-butadiene	Averaged	0.46901	0.48997	0.52309
n-Hexane	Averaged	0.41430	0.41596	0.41094
2-Hexanone	Averaged	0.29946	0.28045	0.25222
Iodomethane	Averaged	0.41974	0.42293	0.39253
Isopropylbenzene (Cumene)	Averaged	1.99758	1.94625	1.76100
p-Isopropyltoluene	Averaged	3.08905	3.00002	2.81796
Methylene Chloride	Wt Linear	0.30762	0.30264	0.29452
4-Methyl-2-pentanone (MIBK)	Averaged	0.43872	0.38327	0.34745
Methyl-tert-butyl ether	Averaged	0.84663	0.81689	0.80660
Naphthalene	Averaged	2.66448	2.65736	2.50931
n-Propylbenzene	Averaged	4.19570	4.11646	3.83061
Styrene	Averaged	1.36262	1.29761	1.13302
1,1,1,2-Tetrachloroethane	Averaged	0.42037	0.42027	0.40205
1,1,2,2-Tetrachloroethane	Averaged	0.99753	0.98152	0.90684
Tetrachloroethene	Averaged	0.51353	0.51240	0.48817
Toluene	Averaged	1.84311	1.77552	1.69185
1,2,3-Trichlorobenzene	Averaged	0.75302	0.72644	0.67914
1,2,4-Trichlorobenzene	Averaged	0.91618	0.90965	0.90271
1,1,1-Trichloroethane	Averaged	0.44279	0.44425	0.43976
1,1,2-Trichloroethane	Averaged	0.29490	0.28369	0.27866
Trichloroethene	Averaged	0.31512	0.32591	0.32017
Trichlorofluoromethane	Averaged	0.43780	0.43325	0.42083
1,2,3-Trichloropropane	Averaged	0.31941	0.32202	0.29236
1,2,4-Trimethylbenzene	Averaged	2.95358	2.85903	2.75194
1,3,5-Trimethylbenzene	Averaged	2.97061	2.83559	2.56351
Vinyl acetate	Averaged	0.63976	0.57665	0.56862
Vinyl chloride	Averaged	0.36234	0.39079	0.38796
m&p-Xylene	Averaged	0.81551	0.80883	0.74781

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D

CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D

CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
o-Xylene	Averaged	0.79416	0.75731	0.66395
4-Bromofluorobenzene (S)	Averaged	0.47665	0.47683	0.46238
Dibromofluoromethane (S)	Averaged	0.22871	0.22294	0.22441
Toluene-d8 (S)	Averaged	1.30478	1.25786	1.27452

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-7
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D
CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D
CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	19.36705			0.09071	
Acrolein	Averaged	11.53789			0.06180	
Acrylonitrile	Averaged	12.73835			0.11308	
Benzene	Averaged	14.81350			1.34348	
Bromobenzene	Averaged	14.54314			0.95247	
Bromochloromethane	Averaged	18.43812			0.23721	
Bromodichloromethane	Wt Linear		0.99951	0.00452568	0.36226	
Bromoform	Averaged	9.50535			0.64034	
Bromomethane	Averaged	14.60309			0.17021	
2-Butanone (MEK)	Averaged	13.96996			0.13739	
n-Butylbenzene	Averaged	4.89240			2.39392	
sec-Butylbenzene	Averaged	3.61832			3.37410	
tert-Butylbenzene	Averaged	4.88336			2.77421	
Carbon disulfide	Averaged	7.67059			0.92735	
Carbon tetrachloride	Averaged	3.99113			0.39437	
Chlorobenzene	Averaged	12.79250			1.26055	
Chloroethane	Averaged	8.36477			0.20759	
Chloroform	Averaged	18.13161			0.54665	
Chloromethane	Averaged	6.88729			0.33301	
2-Chlorotoluene	Averaged	8.49353			2.45352	
4-Chlorotoluene	Averaged	10.71379			0.92113	
Dibromochloromethane	Averaged	14.24116			0.45406	
1,2-Dibromoethane (EDB)	Averaged	13.38948			0.41701	
Dibromomethane	Averaged	17.52989			0.19127	
1,2-Dichlorobenzene	Averaged	11.08402			1.59417	
1,3-Dichlorobenzene	Averaged	7.93625			1.67484	
1,4-Dichlorobenzene	Averaged	11.14288			1.71961	
trans-1,4-Dichloro-2-butene	Averaged	9.49349			0.15004	
Dichlorodifluoromethane	Averaged	17.22648			0.33633	
1,1-Dichloroethane	Averaged	13.78910			0.54144	
1,2-Dichloroethane	Wt Linear		0.99892	0.00581886	0.32947	
1,1-Dichloroethene	Averaged	3.60561			0.27781	
cis-1,2-Dichloroethene	Averaged	9.60469			0.35131	
trans-1,2-Dichloroethene	Averaged	6.47270			0.31716	
1,2-Dichloropropane	Wt Linear		0.99957	0.00392380	0.29383	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-8

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D

CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D

CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	19.24648			0.68678	
2,2-Dichloropropane	Averaged	8.40254			0.42365	
1,1-Dichloropropene	Averaged	3.42896			0.38995	
cis-1,3-Dichloropropene	Averaged	18.86495			0.70179	
trans-1,3-Dichloropropene	Averaged	15.07991			0.61968	
Ethylbenzene	Averaged	7.52531			0.65800	
Ethyl methacrylate	Averaged	6.45928			0.56269	
Hexachloro-1,3-butadiene	Averaged	12.57477			0.43235	
n-Hexane	Averaged	10.05419			0.38933	
2-Hexanone	Averaged	8.60823			0.30220	
Iodomethane	Averaged	5.49654			0.39110	
Isopropylbenzene (Cumene)	Averaged	5.34352			1.91497	
p-Isopropyltoluene	Averaged	3.87615			2.94227	
Methylene Chloride	Wt Linear		0.99906	0.01310836	0.29563	
4-Methyl-2-pentanone (MIBK)	Averaged	8.14690			0.41021	
Methyl-tert-butyl ether	Averaged	11.85721			0.88861	
Naphthalene	Averaged	5.28089			2.50227	
n-Propylbenzene	Averaged	4.34414			4.02910	
Styrene	Averaged	8.09657			1.30602	
1,1,1,2-Tetrachloroethane	Averaged	10.62880			0.43525	
1,1,2,2-Tetrachloroethane	Averaged	15.97447			1.05200	
Tetrachloroethene	Averaged	7.43962			0.52199	
Toluene	Averaged	15.36190			1.92716	
1,2,3-Trichlorobenzene	Averaged	9.09222			0.72464	
1,2,4-Trichlorobenzene	Averaged	11.87035			0.88635	
1,1,1-Trichloroethane	Averaged	6.57344			0.45157	
1,1,2-Trichloroethane	Averaged	16.98434			0.32209	
Trichloroethene	Averaged	10.58618			0.33628	
Trichlorofluoromethane	Averaged	8.12875			0.41857	
1,2,3-Trichloropropane	Averaged	10.76528			0.33145	
1,2,4-Trimethylbenzene	Averaged	5.39722			2.83450	
1,3,5-Trimethylbenzene	Averaged	5.73944			2.79342	
Vinyl acetate	Averaged	7.85019			0.58535	
Vinyl chloride	Averaged	7.76486			0.36431	
m&p-Xylene	Averaged	11.36969			0.83435	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVCB GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/16/2023 01/16/2023 Calibration Time(s): 14:21 18:42

LAB FILE ID

CAL1 = B011623CAL.B\B01.D CAL2 = B011623CAL.B\B02.D CAL3 = B011623CAL.B\B03.D

CAL4 = B011623CAL.B\B04.D CAL5 = B011623CAL.B\B05.D CAL6 = B011623CAL.B\B06.D

CAL7 = B011623CAL.B\B07.D CAL8 = B011623CAL.B\B08.D CAL9 = B011623CAL.B\B09.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
o-Xylene	Averaged	8.65218			0.76897	
4-Bromofluorobenzene (S)	Averaged	2.10694			0.47094	
Dibromofluoromethane (S)	Averaged	3.73439			0.22712	
Toluene-d8 (S)	Averaged	2.88636			1.29647	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D
CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D
CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged	0.20423	0.18448	0.15114	0.14464	0.15247	0.18894
Acrolein	Averaged	0.07764	0.06973	0.07269	0.08923	0.08525	0.07463
Acrylonitrile	Averaged	0.18430	0.18657	0.18328	0.15352	0.16764	0.16703
Benzene	Averaged	1.21303	1.24041	1.19876	1.02344	1.12411	1.05762
Bromobenzene	Averaged	0.75642	0.67265	0.67373	0.54718	0.62538	0.56772
Bromochloromethane	Averaged	0.27135	0.28499	0.27553	0.24251	0.27491	0.24210
Bromodichloromethane	Averaged	0.39096	0.38588	0.37105	0.32102	0.35697	0.34725
Bromoform	Averaged	0.62085	0.68654	0.66712	0.55190	0.63121	0.69170
Bromomethane	Averaged		0.27817	0.23615	0.23538	0.20339	0.21085
2-Butanone (MEK)	Averaged	0.27143	0.30067	0.28683	0.22299	0.24723	0.26137
n-Butylbenzene	Averaged	2.85919	2.92811	2.78318	2.30990	2.50656	2.31574
sec-Butylbenzene	Averaged	3.89131	4.20852	3.92259	3.41754	3.64410	3.45497
tert-Butylbenzene	Averaged	3.16469	3.35911	3.19374	2.68013	2.97158	2.83243
Carbon disulfide	Averaged	0.92769	0.95681	0.86415	0.73541	0.78836	0.79040
Carbon tetrachloride	Averaged	0.33887	0.36958	0.40449	0.36070	0.41074	0.44650
Chlorobenzene	Averaged	1.20474	1.15959	1.18344	0.96957	1.11356	1.08442
Chloroethane	Averaged		0.16545	0.19553	0.25258	0.22980	0.19015
Chloroform	Averaged	0.59355	0.55378	0.51333	0.43449	0.47268	0.46613
Chloromethane	Averaged	0.38479	0.35711	0.36725	0.41906	0.37733	0.29831
2-Chlorotoluene	Averaged	3.00570	2.96797	2.71672	2.32823	2.44912	2.23888
4-Chlorotoluene	Averaged	0.98416	1.04089	1.01459	0.89632	0.94558	0.93387
Dibromochloromethane	Averaged	0.38141	0.40649	0.41509	0.36829	0.41548	0.43407
1,2-Dibromoethane (EDB)	Averaged	0.40876	0.42101	0.40223	0.34544	0.38546	0.37280
Dibromomethane	Averaged	0.18900	0.18996	0.19521	0.16223	0.17737	0.18654
1,2-Dichlorobenzene	Averaged	1.35995	1.42453	1.51489	1.21580	1.34475	1.35712
1,3-Dichlorobenzene	Averaged	1.77385	1.72606	1.68559	1.38050	1.51698	1.56392
1,4-Dichlorobenzene	Averaged	1.84678	1.87019	1.75087	1.38548	1.54162	1.55536
trans-1,4-Dichloro-2-butene	Averaged	0.23711	0.23107	0.21875	0.18528	0.19966	0.18092
Dichlorodifluoromethane	Averaged		0.29298	0.32455	0.35911	0.34107	0.33293
1,1-Dichloroethane	Averaged	0.51655	0.53620	0.51333	0.45531	0.49652	0.46286
1,2-Dichloroethane	Averaged		0.41944	0.37849	0.32668	0.35940	0.34519
1,1-Dichloroethene	Averaged	0.34032	0.29958	0.26996	0.23057	0.25414	0.24849
cis-1,2-Dichloroethene	Averaged	0.44799	0.44682	0.39251	0.30423	0.32432	0.31274
trans-1,2-Dichloroethene	Averaged	0.40599	0.36990	0.34659	0.27050	0.28813	0.28452
1,2-Dichloropropane	Averaged	0.32817	0.34081	0.31149	0.26362	0.29996	0.27335

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-2
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D
CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D
CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged	0.69416	0.61382	0.61272	0.52861	0.59150	0.52465
2,2-Dichloropropane	Averaged	0.40455	0.49305	0.41380	0.34635	0.38361	0.40885
1,1-Dichloropropene	Averaged	0.34670	0.39312	0.36489	0.32855	0.36167	0.35196
cis-1,3-Dichloropropene	Averaged	0.72820	0.65662	0.69402	0.55724	0.61850	0.57956
trans-1,3-Dichloropropene	Averaged	0.66187	0.67506	0.62809	0.51757	0.56908	0.53504
Ethylbenzene	Averaged	0.69387	0.65042	0.64626	0.56846	0.63167	0.58749
Ethyl methacrylate	Averaged	0.69445	0.68489	0.64557	0.52070	0.59780	0.52309
Hexachloro-1,3-butadiene	Averaged	0.19447	0.24020	0.21135	0.18916	0.21229	0.24774
n-Hexane	Averaged		0.65893	0.58515	0.40540	0.47309	0.47395
2-Hexanone	Averaged	0.64592	0.68048	0.64279	0.52278	0.56934	0.51581
Iodomethane	Averaged	0.15400	0.15618	0.20190	0.22368	0.28483	0.31308
Isopropylbenzene (Cumene)	Averaged	1.92101	2.03034	1.95890	1.68531	1.87406	1.80361
p-Isopropyltoluene	Averaged	3.17126	3.26440	3.22899	2.78053	3.06846	2.95804
Methylene Chloride	Wt Linear	1.17906	0.73937	0.50879	0.33690	0.31621	0.27238
4-Methyl-2-pentanone (MIBK)	Averaged	0.77853	0.80460	0.80271	0.65427	0.73162	0.61865
Methyl-tert-butyl ether	Averaged	0.95610	0.91952	0.85094	0.70384	0.78778	0.74097
Naphthalene	Averaged	1.53208	1.60307	1.56313	1.27025	1.39654	1.18740
n-Propylbenzene	Averaged	5.35572	5.53935	5.21398	4.36225	4.62999	4.28053
Styrene	Averaged	1.34410	1.31792	1.29251	1.08951	1.19913	1.15834
1,1,1,2-Tetrachloroethane	Averaged	0.37705	0.41995	0.41123	0.36187	0.40504	0.40843
1,1,2,2-Tetrachloroethane	Averaged	1.38952	1.32164	1.28245	1.02658	1.11533	0.98901
Tetrachloroethene	Averaged	0.41167	0.46396	0.44893	0.39975	0.45633	0.49987
Toluene	Averaged	2.07084	2.08629	1.96117	1.66058	1.78862	1.64941
1,2,3-Trichlorobenzene	Averaged	0.23257	0.28859	0.28844	0.24158	0.24394	0.23799
1,2,4-Trichlorobenzene	Averaged	0.52296	0.49404	0.46015	0.40122	0.45011	0.43910
1,1,1-Trichloroethane	Averaged	0.44325	0.48464	0.44912	0.38504	0.43027	0.44890
1,1,2-Trichloroethane	Averaged	0.31944	0.33345	0.31495	0.27259	0.29689	0.26987
Trichloroethene	Averaged	0.30779	0.30512	0.31069	0.26074	0.28837	0.28547
Trichlorofluoromethane	Averaged		0.28264	0.34365	0.45114	0.43807	0.39716
1,2,3-Trichloropropane	Averaged	0.38565	0.41397	0.42844	0.34644	0.36791	0.34717
1,2,4-Trimethylbenzene	Averaged	3.47018	3.27700	3.37000	2.75897	2.97465	2.82635
1,3,5-Trimethylbenzene	Averaged	3.36835	3.39250	3.32598	2.77043	3.02346	2.85578
Vinyl acetate	Averaged	0.76391	0.79482	0.79456	0.94704	0.91397	0.80566
Vinyl chloride	Averaged	0.26002	0.31546	0.32465	0.41322	0.38515	0.32356
m&p-Xylene	Averaged	0.74187	0.84444	0.81528	0.67751	0.77492	0.73082

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D

CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D

CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
o-Xylene	Averaged	0.77097	0.77018	0.75828	0.61893	0.71469	0.68219
4-Bromofluorobenzene (S)	Averaged	0.41321	0.41415	0.41237	0.41723	0.42367	0.41032
Dibromofluoromethane (S)	Averaged	0.24841	0.25237	0.25007	0.25407	0.25616	0.26454
Toluene-d8 (S)	Averaged	1.34811	1.35214	1.32886	1.33309	1.32505	1.24914

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D

CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D

CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
Acetone	Averaged	0.14825	0.13408	0.13239
Acrolein	Averaged	0.07746	0.08688	0.08317
Acrylonitrile	Averaged	0.16295	0.16608	0.16828
Benzene	Averaged	1.12912	1.06560	1.07460
Bromobenzene	Averaged	0.60812	0.57234	0.58493
Bromochloromethane	Averaged	0.25028	0.23132	0.23048
Bromodichloromethane	Averaged	0.36139	0.34931	0.34937
Bromoform	Averaged	0.66600	0.65504	0.69891
Bromomethane	Averaged	0.17549	0.18194	0.19959
2-Butanone (MEK)	Averaged	0.24999	0.21377	0.19646
n-Butylbenzene	Averaged	2.38677	2.29266	2.26635
sec-Butylbenzene	Averaged	3.66240	3.49250	3.47870
tert-Butylbenzene	Averaged	2.90381	2.80570	2.84662
Carbon disulfide	Averaged	0.78775	0.75326	0.73840
Carbon tetrachloride	Averaged	0.44841	0.41843	0.43337
Chlorobenzene	Averaged	1.11544	1.09244	1.13155
Chloroethane	Averaged	0.19168	0.17946	0.17353
Chloroform	Averaged	0.49884	0.46820	0.46517
Chloromethane	Averaged	0.31621	0.31224	0.30751
2-Chlorotoluene	Averaged	2.30605	2.11900	2.14323
4-Chlorotoluene	Averaged	0.93225	0.88091	0.89608
Dibromochloromethane	Averaged	0.44483	0.44739	0.47209
1,2-Dibromoethane (EDB)	Averaged	0.38513	0.38603	0.38955
Dibromomethane	Averaged	0.19017	0.18479	0.16390
1,2-Dichlorobenzene	Averaged	1.42067	1.40418	1.41956
1,3-Dichlorobenzene	Averaged	1.60056	1.63128	1.74749
1,4-Dichlorobenzene	Averaged	1.57396	1.54527	1.60166
trans-1,4-Dichloro-2-butene	Averaged	0.18902	0.17708	0.17433
Dichlorodifluoromethane	Averaged	0.31019	0.33613	0.32608
1,1-Dichloroethane	Averaged	0.49259	0.46997	0.46651
1,2-Dichloroethane	Averaged	0.36538	0.34638	0.34127
1,1-Dichloroethene	Averaged	0.26784	0.26150	0.26595
cis-1,2-Dichloroethene	Averaged	0.31717	0.30400	0.30840
trans-1,2-Dichloroethene	Averaged	0.28694	0.28044	0.28560
1,2-Dichloropropane	Averaged	0.28914	0.27276	0.27298

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 =	A011923CAL.B\A04.D	CAL2 =	A011923CAL.B\A05.D	CAL3 =	A011923CAL.B\A06.D
CAL4 =	A011923CAL.B\A07.D	CAL5 =	A011923CAL.B\A08.D	CAL6 =	A011923CAL.B\E01.D
CAL7 =	A011923CAL.B\A10.D	CAL8 =	A011923CAL.B\A11.D	CAL9 =	A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
1,3-Dichloropropane	Averaged	0.55756	0.53794	0.53212
2,2-Dichloropropane	Averaged	0.38136	0.35107	0.35401
1,1-Dichloropropene	Averaged	0.36059	0.32997	0.32990
cis-1,3-Dichloropropene	Averaged	0.60390	0.57445	0.57775
trans-1,3-Dichloropropene	Averaged	0.55186	0.53653	0.53800
Ethylbenzene	Averaged	0.62595	0.58688	0.61114
Ethyl methacrylate	Averaged	0.56740	0.54311	0.54838
Hexachloro-1,3-butadiene	Averaged	0.21532	0.21236	0.22615
n-Hexane	Averaged	0.45636	0.42879	0.42888
2-Hexanone	Averaged	0.53891	0.49972	0.50814
Iodomethane	Averaged	0.29576	0.35139	0.30136
Isopropylbenzene (Cumene)	Averaged	1.93112	1.91281	1.93322
p-Isopropyltoluene	Averaged	3.11371	3.07264	3.18162
Methylene Chloride	Wt Linear	0.28467	0.26862	0.27018
4-Methyl-2-pentanone (MIBK)	Averaged	0.68486	0.65168	0.66264
Methyl-tert-butyl ether	Averaged	0.79396	0.77389	0.78630
Naphthalene	Averaged	1.35056	1.17772	1.01455
n-Propylbenzene	Averaged	4.33703	3.98259	3.93495
Styrene	Averaged	1.26601	1.30572	1.32864
1,1,1,2-Tetrachloroethane	Averaged	0.41206	0.40718	0.43158
1,1,2,2-Tetrachloroethane	Averaged	1.02757	0.93024	0.91637
Tetrachloroethene	Averaged	0.46476	0.45698	0.49846
Toluene	Averaged	1.74584	1.67588	1.74835
1,2,3-Trichlorobenzene	Averaged	0.25911	0.22151	0.18723
1,2,4-Trichlorobenzene	Averaged	0.44004	0.39635	0.36200
1,1,1-Trichloroethane	Averaged	0.46210	0.43321	0.44048
1,1,2-Trichloroethane	Averaged	0.28337	0.27562	0.28098
Trichloroethene	Averaged	0.29530	0.27826	0.28094
Trichlorofluoromethane	Averaged	0.41759	0.43339	0.45856
1,2,3-Trichloropropane	Averaged	0.35704	0.32501	0.32418
1,2,4-Trimethylbenzene	Averaged	2.95652	2.82283	2.83396
1,3,5-Trimethylbenzene	Averaged	2.93338	2.76398	2.84362
Vinyl acetate	Averaged	0.84452	0.95723	0.95772
Vinyl chloride	Averaged	0.34470	0.33698	0.33065
m&p-Xylene	Averaged	0.76152	0.73359	0.78139

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D

CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D

CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
o-Xylene	Averaged	0.71978	0.71546	0.74296
4-Bromofluorobenzene (S)	Averaged	0.43082	0.43261	0.41817
Dibromofluoromethane (S)	Averaged	0.25940	0.26349	0.25014
Toluene-d8 (S)	Averaged	1.28129	1.28790	1.29774

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-7
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D
CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D
CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	16.13465			0.16007	
Acrolein	Averaged	8.52418			0.07963	
Acrylonitrile	Averaged	6.53208			0.17107	
Benzene	Averaged	6.84452			1.12519	
Bromobenzene	Averaged	10.74775			0.62316	
Bromochloromethane	Averaged	8.15243			0.25594	
Bromodichloromethane	Averaged	5.95876			0.35924	
Bromoform	Averaged	7.03242			0.65214	
Bromomethane	Averaged	15.61196			0.21512	
2-Butanone (MEK)	Averaged	13.72755			0.25008	
n-Butylbenzene	Averaged	10.61239			2.51650	
sec-Butylbenzene	Averaged	7.30091			3.68585	
tert-Butylbenzene	Averaged	7.41536			2.97309	
Carbon disulfide	Averaged	10.00446			0.81580	
Carbon tetrachloride	Averaged	9.67658			0.40345	
Chlorobenzene	Averaged	6.13261			1.11720	
Chloroethane	Averaged	14.95973			0.19727	
Chloroform	Averaged	10.10208			0.49624	
Chloromethane	Averaged	12.03681			0.34887	
2-Chlorotoluene	Averaged	13.74939			2.47499	
4-Chlorotoluene	Averaged	5.86454			0.94718	
Dibromochloromethane	Averaged	7.82499			0.42057	
1,2-Dibromoethane (EDB)	Averaged	5.59785			0.38849	
Dibromomethane	Averaged	6.50189			0.18213	
1,2-Dichlorobenzene	Averaged	5.87406			1.38461	
1,3-Dichlorobenzene	Averaged	7.74881			1.62514	
1,4-Dichlorobenzene	Averaged	9.78609			1.63013	
trans-1,4-Dichloro-2-butene	Averaged	12.00196			0.19925	
Dichlorodifluoromethane	Averaged	6.08734			0.32788	
1,1-Dichloroethane	Averaged	5.73922			0.48998	
1,2-Dichloroethane	Averaged	7.96849			0.36028	
1,1-Dichloroethene	Averaged	11.79791			0.27093	
cis-1,2-Dichloroethene	Averaged	17.40537			0.35091	
trans-1,2-Dichloroethene	Averaged	15.45371			0.31318	
1,2-Dichloropropane	Averaged	9.26302			0.29470	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-8
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D
CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D
CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	9.79769			0.57701	
2,2-Dichloropropane	Averaged	11.55911			0.39296	
1,1-Dichloropropene	Averaged	6.00779			0.35193	
cis-1,3-Dichloropropene	Averaged	9.56034			0.62114	
trans-1,3-Dichloropropene	Averaged	10.30994			0.57923	
Ethylbenzene	Averaged	6.24185			0.62246	
Ethyl methacrylate	Averaged	11.45572			0.59171	
Hexachloro-1,3-butadiene	Averaged	8.83242			0.21656	
n-Hexane	Averaged	17.95045			0.48882	
2-Hexanone	Averaged	12.13179			0.56932	
Iodomethane	Averaged	28.27118			0.25357	
Isopropylbenzene (Cumene)	Averaged	5.24264			1.89449	
p-Isopropyltoluene	Averaged	4.83763			3.09329	
Methylene Chloride	Wt Linear		0.99963	0.00911070	0.26763	
4-Methyl-2-pentanone (MIBK)	Averaged	10.01392			0.70995	
Methyl-tert-butyl ether	Averaged	10.07395			0.81259	
Naphthalene	Averaged	14.86925			1.34392	
n-Propylbenzene	Averaged	12.96133			4.62627	
Styrene	Averaged	6.96889			1.25576	
1,1,1,2-Tetrachloroethane	Averaged	5.29991			0.40382	
1,1,2,2-Tetrachloroethane	Averaged	15.93983			1.11097	
Tetrachloroethene	Averaged	7.38023			0.45563	
Toluene	Averaged	9.52579			1.82078	
1,2,3-Trichlorobenzene	Averaged	13.00322			0.24455	
1,2,4-Trichlorobenzene	Averaged	11.28983			0.44066	
1,1,1-Trichloroethane	Averaged	6.08426			0.44189	
1,1,2-Trichloroethane	Averaged	7.89317			0.29413	
Trichloroethene	Averaged	5.58070			0.29030	
Trichlorofluoromethane	Averaged	15.07662			0.40277	
1,2,3-Trichloropropane	Averaged	10.05029			0.36620	
1,2,4-Trimethylbenzene	Averaged	8.84196			3.03227	
1,3,5-Trimethylbenzene	Averaged	8.62044			3.03083	
Vinyl acetate	Averaged	9.17130			0.86438	
Vinyl chloride	Averaged	12.82167			0.33716	
m&p-Xylene	Averaged	6.47572			0.76237	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MVDA GC Column: Col 1 SDG No.: 50335726

Calibration Date(s): 01/19/2023 01/20/2023 Calibration Time(s): 14:47 14:03

LAB FILE ID

CAL1 = A011923CAL.B\A04.D CAL2 = A011923CAL.B\A05.D CAL3 = A011923CAL.B\A06.D

CAL4 = A011923CAL.B\A07.D CAL5 = A011923CAL.B\A08.D CAL6 = A011923CAL.B\E01.D

CAL7 = A011923CAL.B\A10.D CAL8 = A011923CAL.B\A11.D CAL9 = A011923CAL.B\A12.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
o-Xylene	Averaged	6.71580			0.72149	
4-Bromofluorobenzene (S)	Averaged	1.93579			0.41917	
Dibromofluoromethane (S)	Averaged	2.32201			0.25541	
Toluene-d8 (S)	Averaged	2.62616			1.31148	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/16/2023 4:43

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a05cal1.d
Lab Smp Id: 8260-CAL1 Client Smp ID: 8260-CAL1
Inj Date : 24-JAN-2023 14:21
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal1,336618
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 5 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	0.974	0.975	(0.221)	128	0.50000	0.115(M)	NI
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	1.447	1.454	(0.329)	243	0.50000	0.409(M)	NI
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	1.655	1.662	(0.376)	1425	10.0000	7.47	
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	254	0.50000	0.307(M)	NI
11 Acetone	43	1.741	1.740	(0.395)	733	2.50000	2.29(M)	NI
12 Iodomethane	142	1.819	1.819	(0.413)	255	0.50000	0.582(M)	NI
13 Carbon Disulfide	76	1.862	1.862	(0.423)	983	0.50000	0.444(M)	NI
14 Acetonitrile	39	1.927	1.927	(0.437)	388	2.50000	2.55(M)	GT
15 allyl chloride	41	1.927	1.927	(0.437)	668	0.50000	0.506(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	1751	2.50000	2.31(M)	NI
17 Methylene Chloride	84	2.006	2.006	(0.455)	980	0.50000	0.926(M)	NI
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	2.156	2.156	(0.489)	420	2.50000	1.69	
20 Methyl-tert-butyl ether	73	2.185	2.192	(0.496)	1002	0.50000	0.369(M)	NI
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	252	0.50000	0.266(M)	NI
22 n-Hexane	57	Compound Not Detected.						
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	606	0.50000	0.409(M)	NI

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.536	2.536	(0.576)	3095	2.00000	1.62(M)	NI
	25 Diisopropyl ether	45	2.557	2.557	(0.581)	764	0.50000	0.317(M)	NI
	26 chloroprene	53	2.586	2.579	(0.587)	284	0.50000	0.222(M)	NI
	27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	863	0.50000	0.335(M)	NI
	28 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	340	0.50000	0.264(M)	NI
	30 2-Butanone	43	3.044	3.037	(0.691)	794	2.50000	0.843(M)	NI
	31 Propionitrile	54	Compound Not Detected.						
	32 Ethyl Acetate	88	Compound Not Detected.						
	33 Methacrylonitrile	41	3.259	3.259	(0.740)	905	2.50000	1.69	
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	3.338	3.338	(0.758)	263	2.50000	0.833(M)	NI
	36 Chloroform	83	3.367	3.367	(0.764)	606	0.50000	0.349(M)	NI
$	37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	55578	50.0000	50.0	
	38 1,1,1-Trichloroethane	97	3.581	3.581	(0.813)	353	0.50000	0.228(M)	NI
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	4.054	4.061	(0.920)	1518	0.50000	0.408(M)	NI
	44 1,2-Dichloroethane	62	4.083	4.076	(0.927)	259	0.50000	0.200(M)	NI
	45 2,2,4-Trimethylpentane	57	4.405	4.405	(1.000)	6042	0.50000	0.284	
	46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	834	0.50000	0.304(M)	NI
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	205197	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	252	0.50000	0.246	
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	5.387	5.387	(1.223)	132	0.50000	0.108(M)	NI
	55 2-Chloroethyl vinyl ether	63	5.738	5.738	(0.785)	1103	2.50000	1.71	
	56 cis-1,3-Dichloropropene	75	5.867	5.866	(0.803)	434	0.50000	0.293(M)	NI
	57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	2016	2.50000	1.93	
$	58 Toluene-d8	98	6.132	6.131	(0.839)	201949	50.0000	49.3	
	59 Toluene	91	6.196	6.203	(0.848)	2003	0.50000	0.448	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	451	0.50000	0.323(M)	WP
	61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	422	0.50000	0.314(M)	NI
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	6.697	6.697	(0.917)	403	0.50000	0.293(M)	NI
	64 1,3-Dichloropropane	76	6.726	6.719	(0.921)	381	0.50000	0.257(M)	NI
	65 2-Hexanone	43	6.819	6.812	(0.933)	1340	2.50000	1.70(M)	NI
	66 Dibromochloromethane	129	6.898	6.898	(0.944)	151	0.50000	0.137(M)	NI
	67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	254	0.50000	0.260	
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	161066	50.0000		
	69 Chlorobenzene	112	7.328	7.328	(1.003)	1235	0.50000	0.402(M)	NI
	70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	280	0.50000	0.258(M)	NI
	71 Ethylbenzene	106	7.407	7.407	(1.014)	539	0.50000	0.330	
	72 m&p-Xylene	106	7.485	7.485	(1.025)	911	0.50000	0.447(M)	NI
	73 o-Xylene	106	7.722	7.722	(1.057)	707	0.50000	0.365(M)	WP
	74 Styrene	104	7.736	7.736	(1.059)	1255	0.50000	0.379(M)	NI
	75 Bromoform	173	7.836	7.836	(0.910)	117	0.50000	0.935(M)	NI
	76 Isopropylbenzene	105	7.937	7.937	(1.086)	2270	0.50000	0.435(M)	NI
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	77925	50.0000	50.0	

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	78 Bromobenzene	77	8.094	8.094	(1.108)	615	0.50000	0.336(M)	NI
	79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	422	0.50000	0.346(M)	NI
	80 1,2,3-Trichloropropane	110	Compound Not Detected.						
	81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	82 n-Propylbenzene	91	8.159	8.159	(0.948)	2680	0.50000	0.480(M)	NI
	83 2-Chlorotoluene	91	8.202	8.202	(0.953)	1481	0.50000	0.457(M)	NI
	84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	1956	0.50000	0.480(M)	NI
	85 4-Chlorotoluene	126	8.259	8.259	(0.959)	486	0.50000	0.397(M)	NI
	86 tert-Butylbenzene	119	8.424	8.424	(0.978)	1994	0.50000	0.475(M)	NI
	87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	1849	0.50000	0.443(M)	NI
	88 sec-Butylbenzene	105	8.531	8.531	(0.991)	2262	0.50000	0.450(M)	NI
	89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	1056	0.50000	0.438(M)	NI
	90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	2063	0.50000	0.464(M)	NI
*	91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	83723	50.0000		
	92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	1051	0.50000	0.443(M)	NI
	93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	1795	0.50000	0.458(M)	NI
	94 n-Butylbenzene	91	8.789	8.789	(1.021)	1515	0.50000	0.426(M)	NI
	95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	883	0.50000	0.410(M)	NI
	96 Hexachloroethane	201	8.925	8.925	(1.037)	143	0.50000	0.213(M)	NI
	97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
	98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	446	0.50000	0.347(M)	NI
	99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	125	0.50000	0.199(M)	NI
	100 Naphthalene	128	9.627	9.627	(1.118)	1382	0.50000	0.413(M)	NI
	101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	374	0.50000	0.370(M)	NI
	102 2,methyl-naphthalene	142	10.121	10.129	(1.176)	408	0.50000	0.358(M)	NI
	103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	328	0.50000	0.337(M)	NI

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).
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a05cal1.d

Date : 24-JAN-2023 14:21

Client ID: 8260-CAL1

Instrument: 50mv2a.i

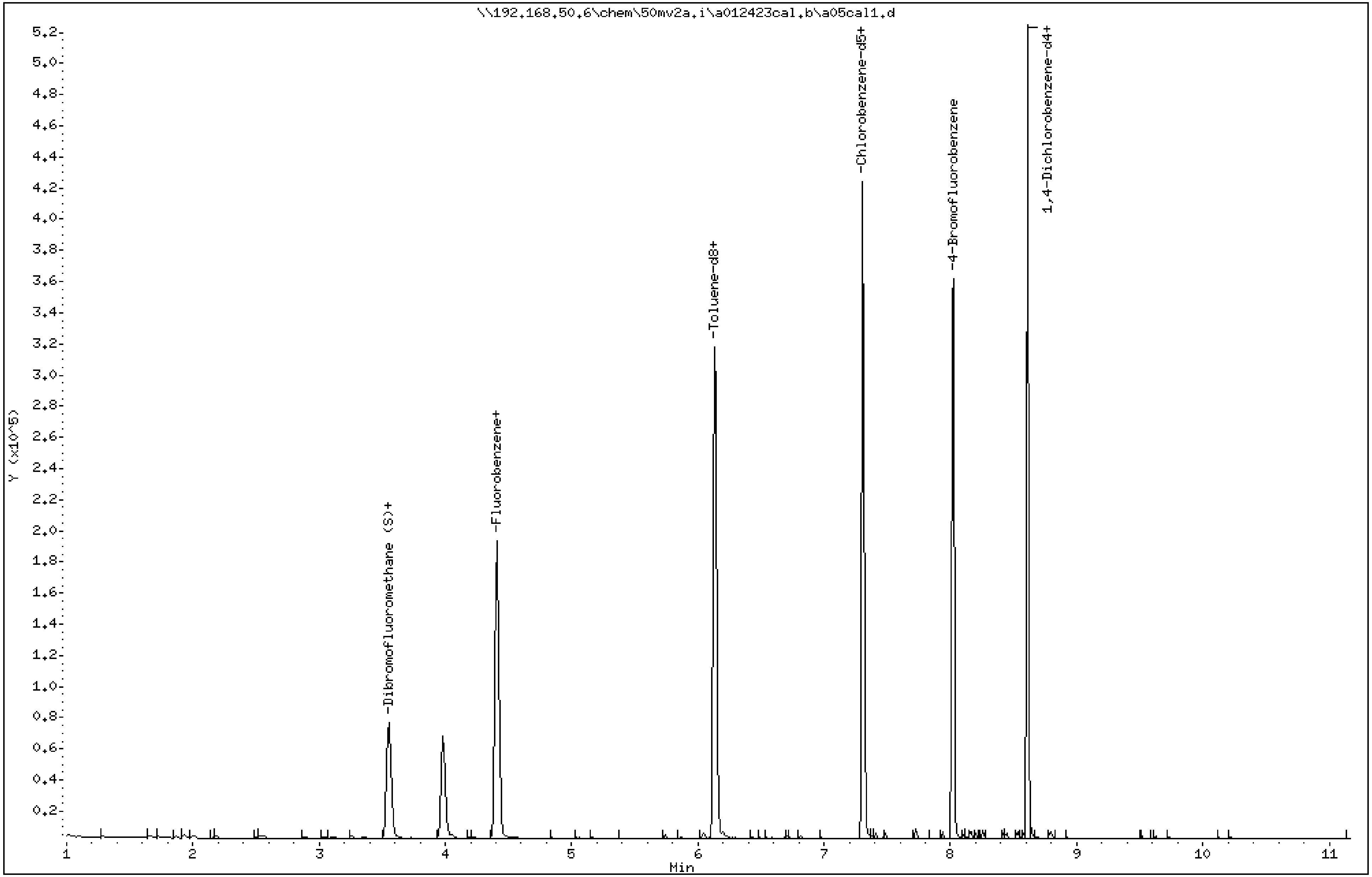
Sample Info: 8260-CAL1,336618

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 24-JAN-2023 14:21

Client ID: 8260-CAL1

Instrument: 50mv2a.i

Sample Info: 8260-CAL1,336618

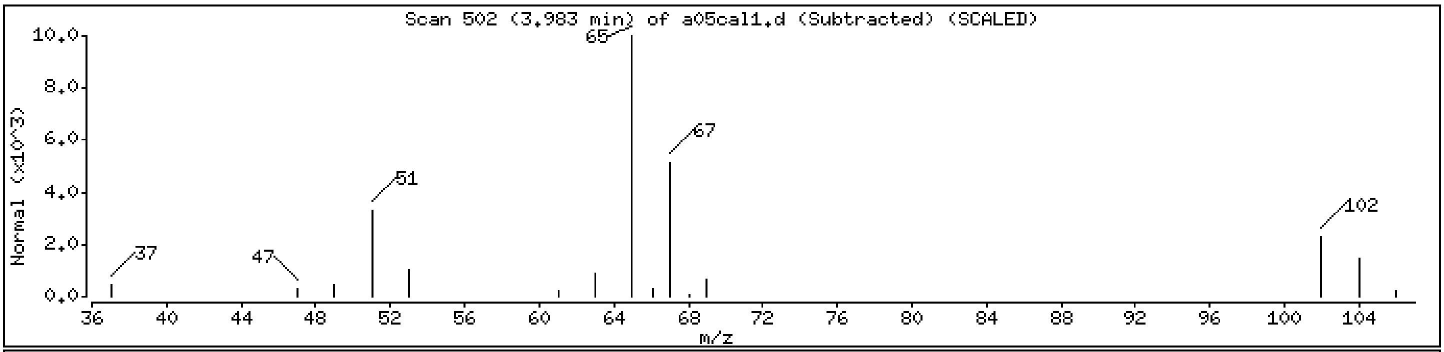
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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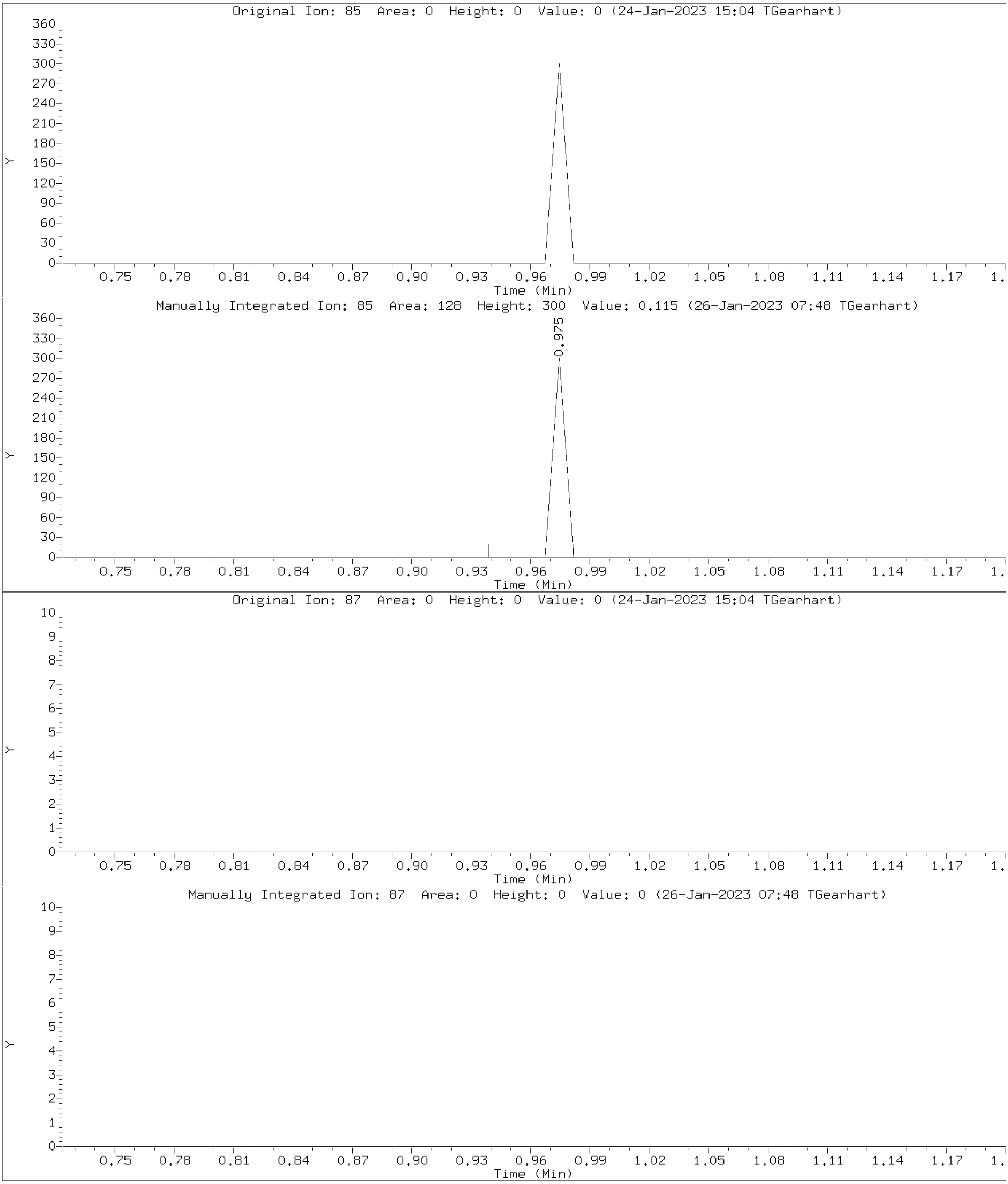
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 460-00-4



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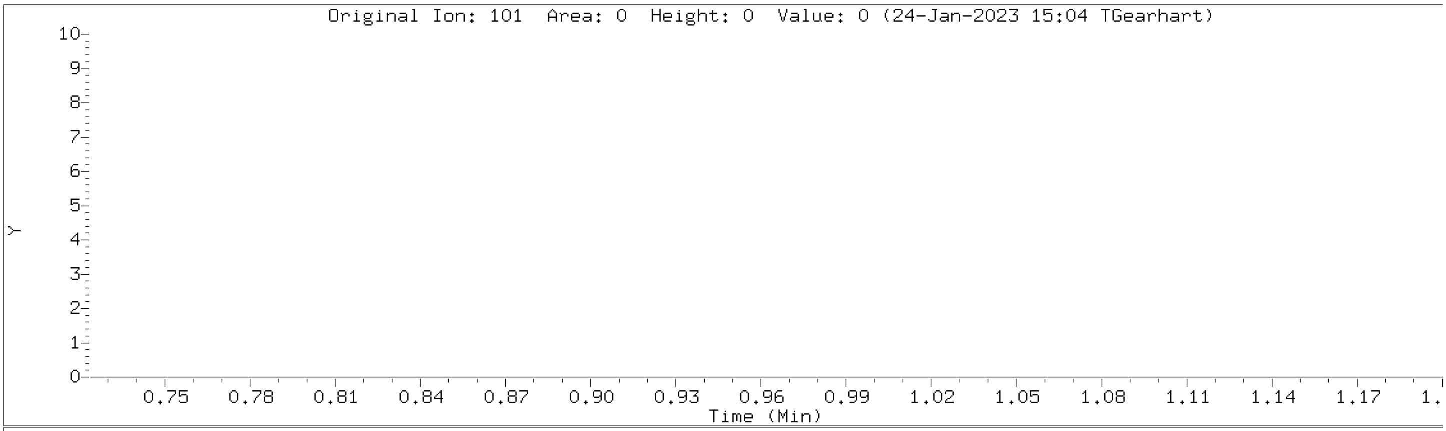
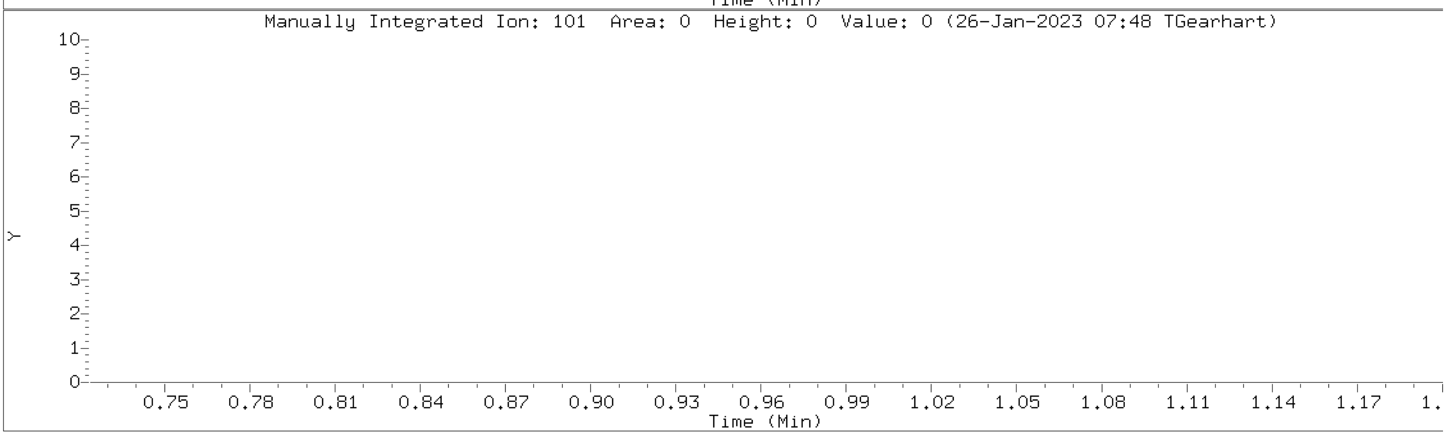
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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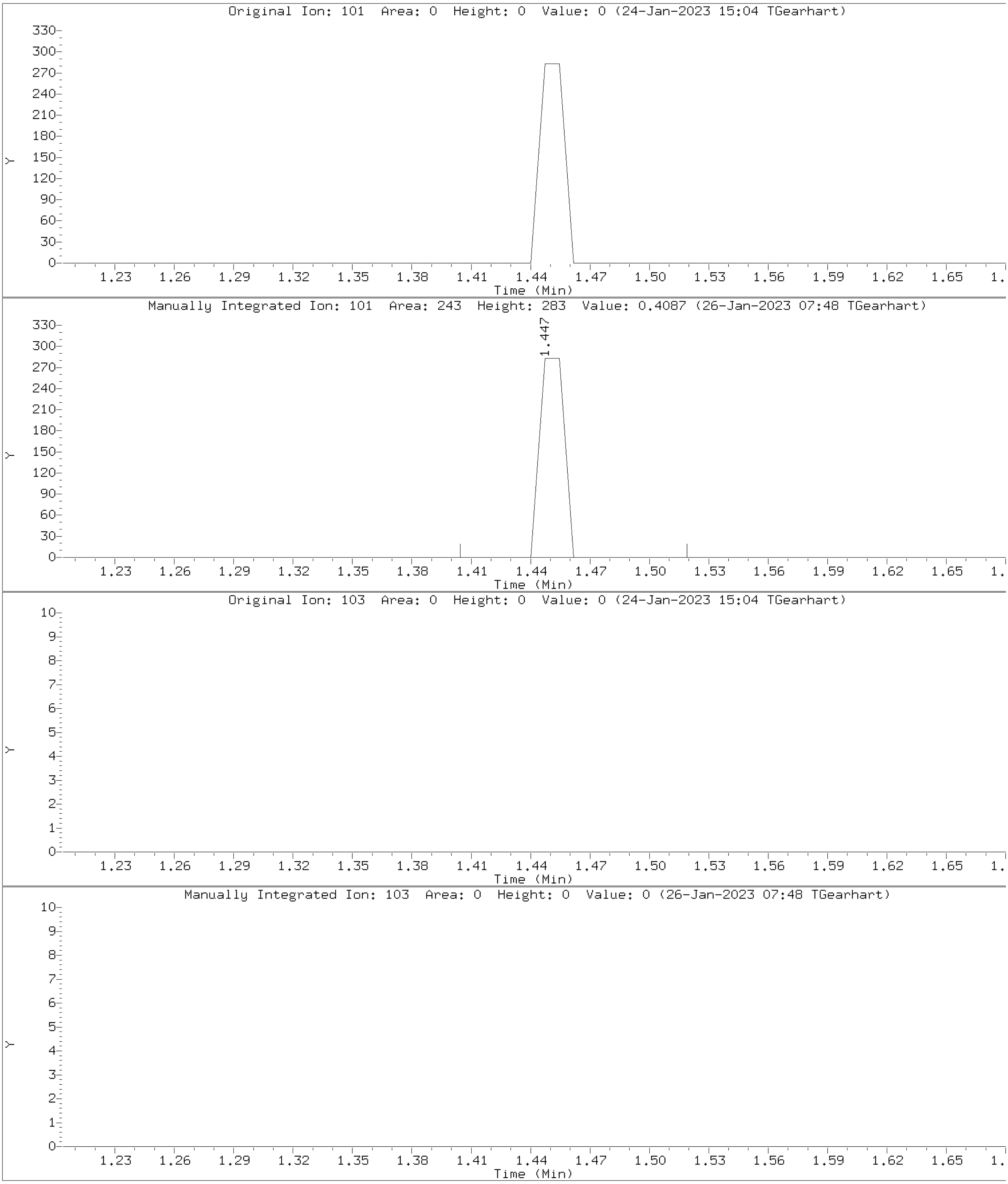
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Trichlorofluoromethane Review Code: NI
CAS Number: 75-69-4



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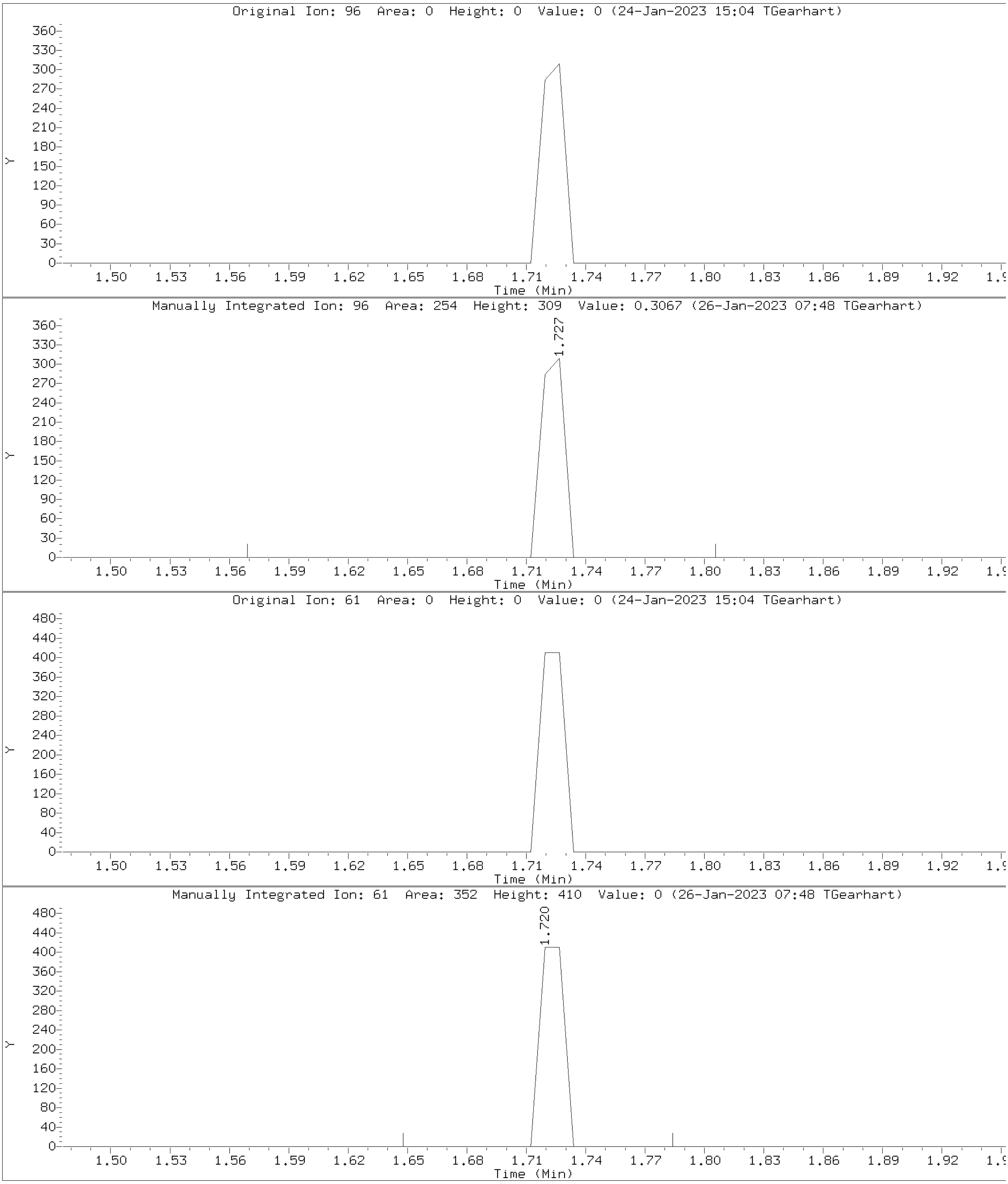
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloroethene   Review Code: NI
CAS Number: 75-35-4



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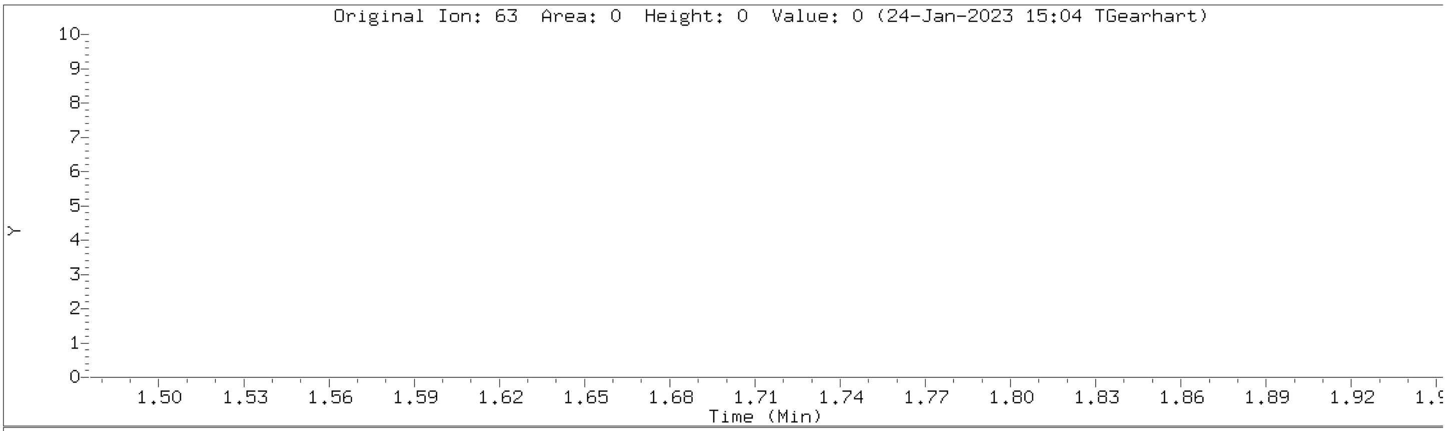
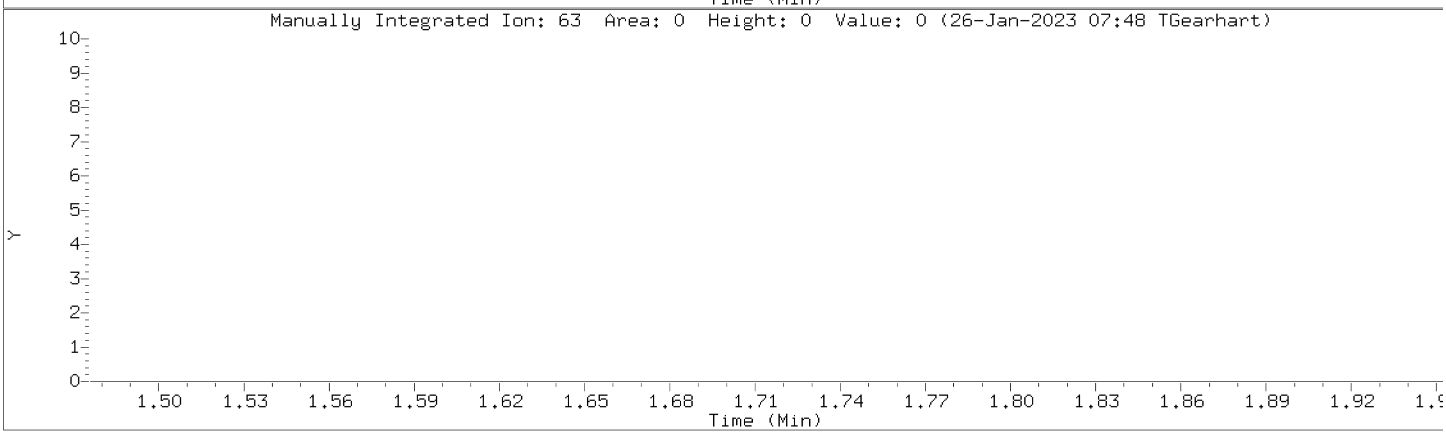
Lab Sample ID: 8260-CAL1





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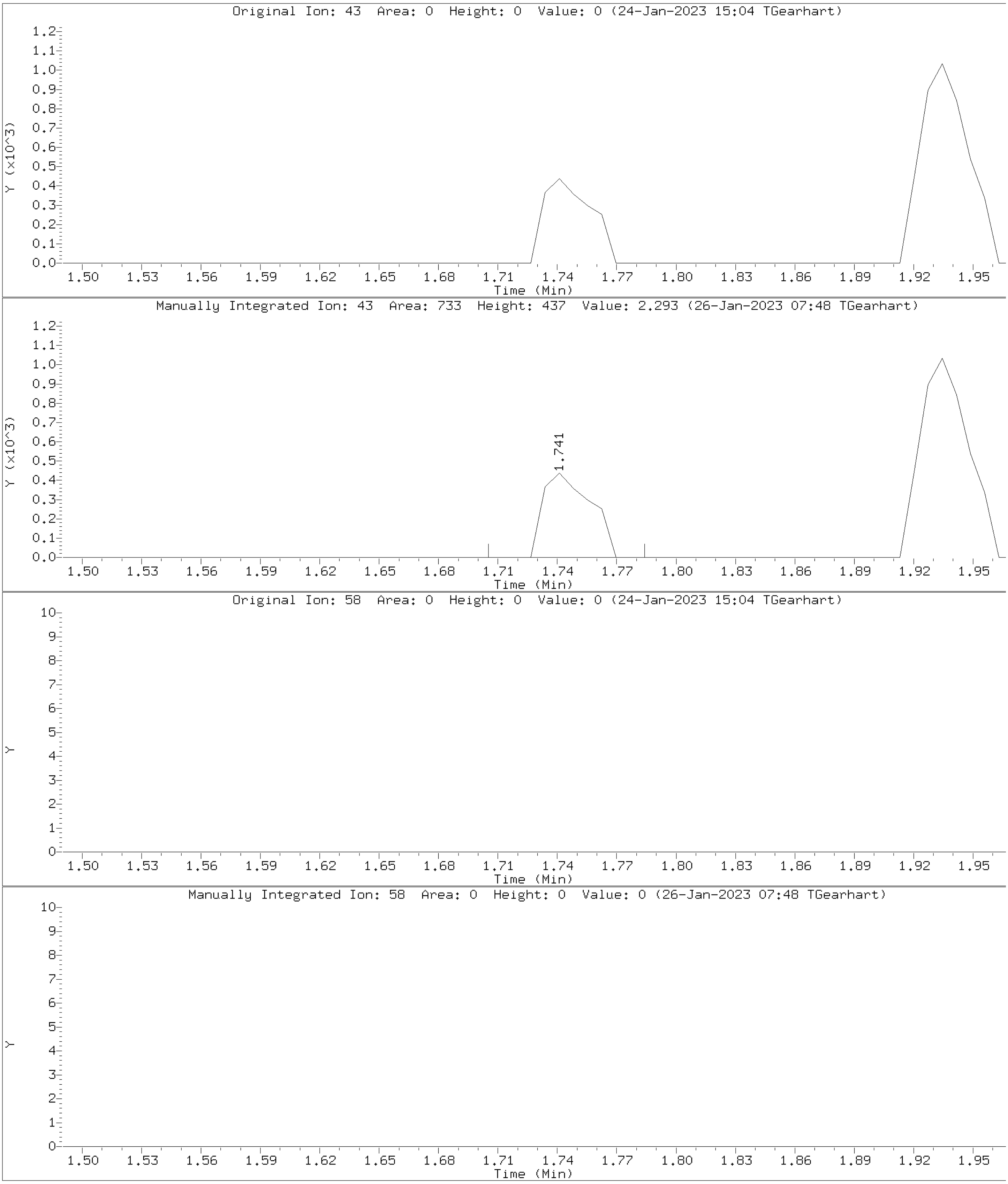
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Acetone   Review Code: NI
CAS Number: 67-64-1



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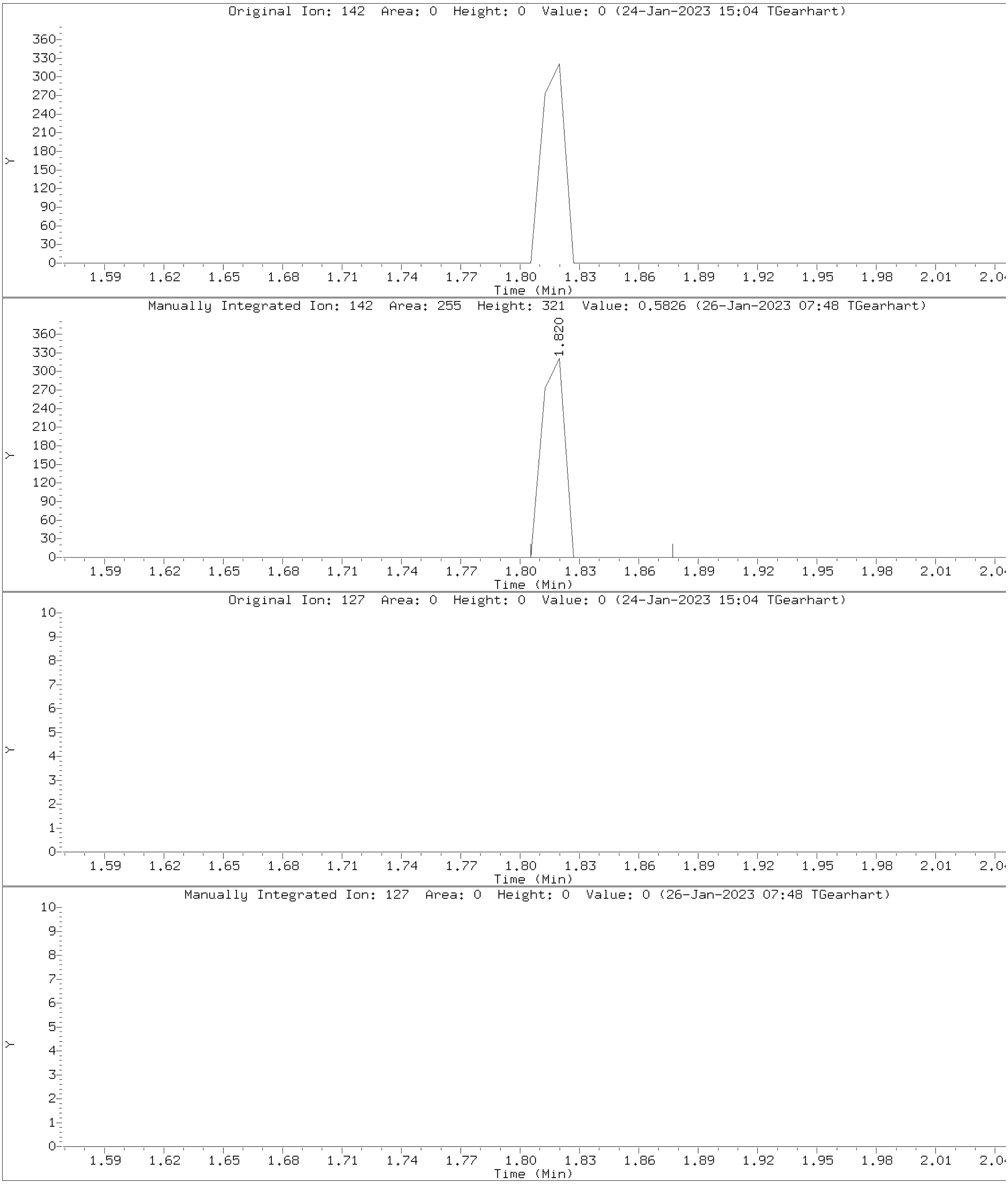
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Iodomethane   Review Code: NI
CAS Number:



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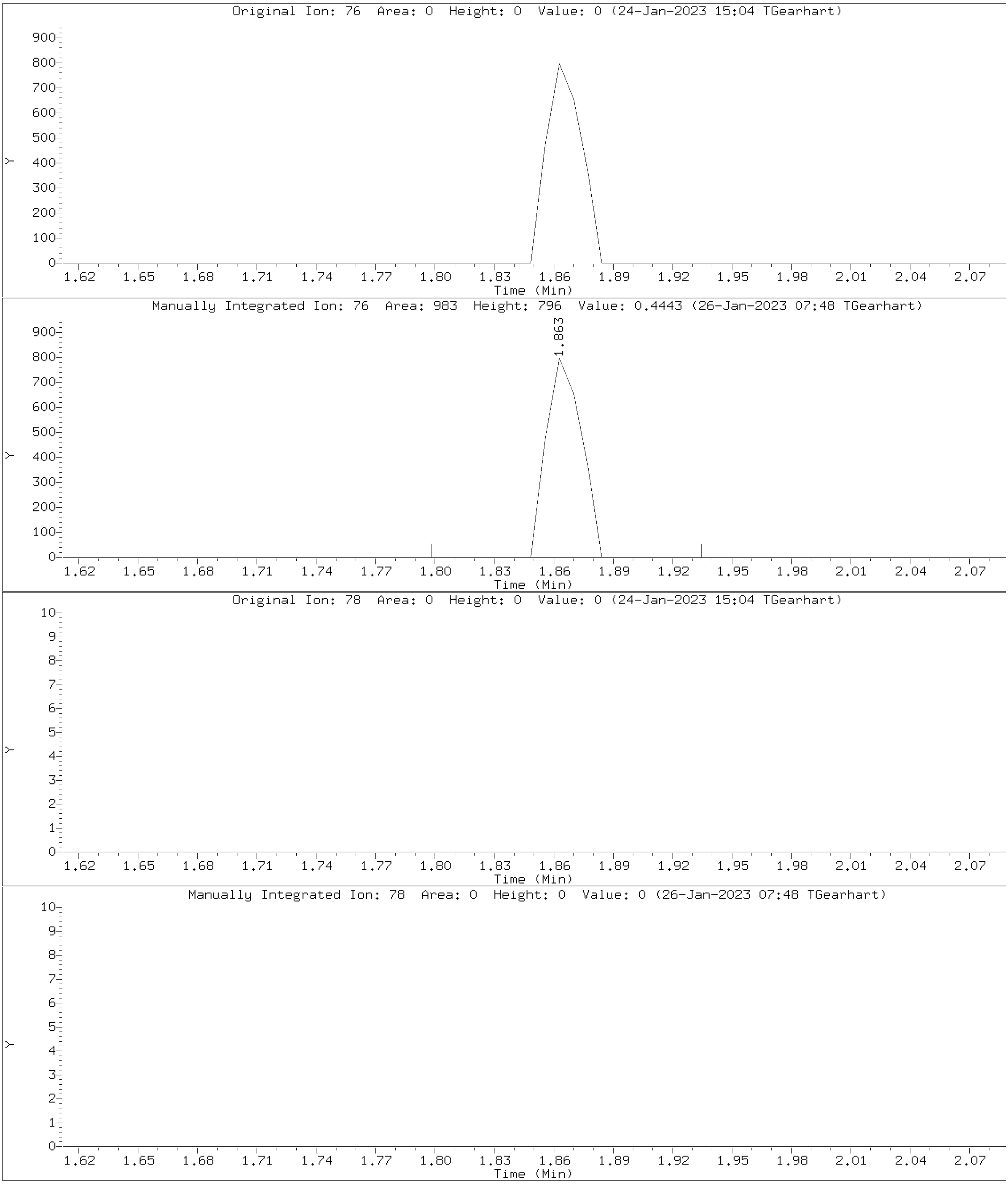
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Carbon Disulfide   Review Code: NI
CAS Number: 75-15-0



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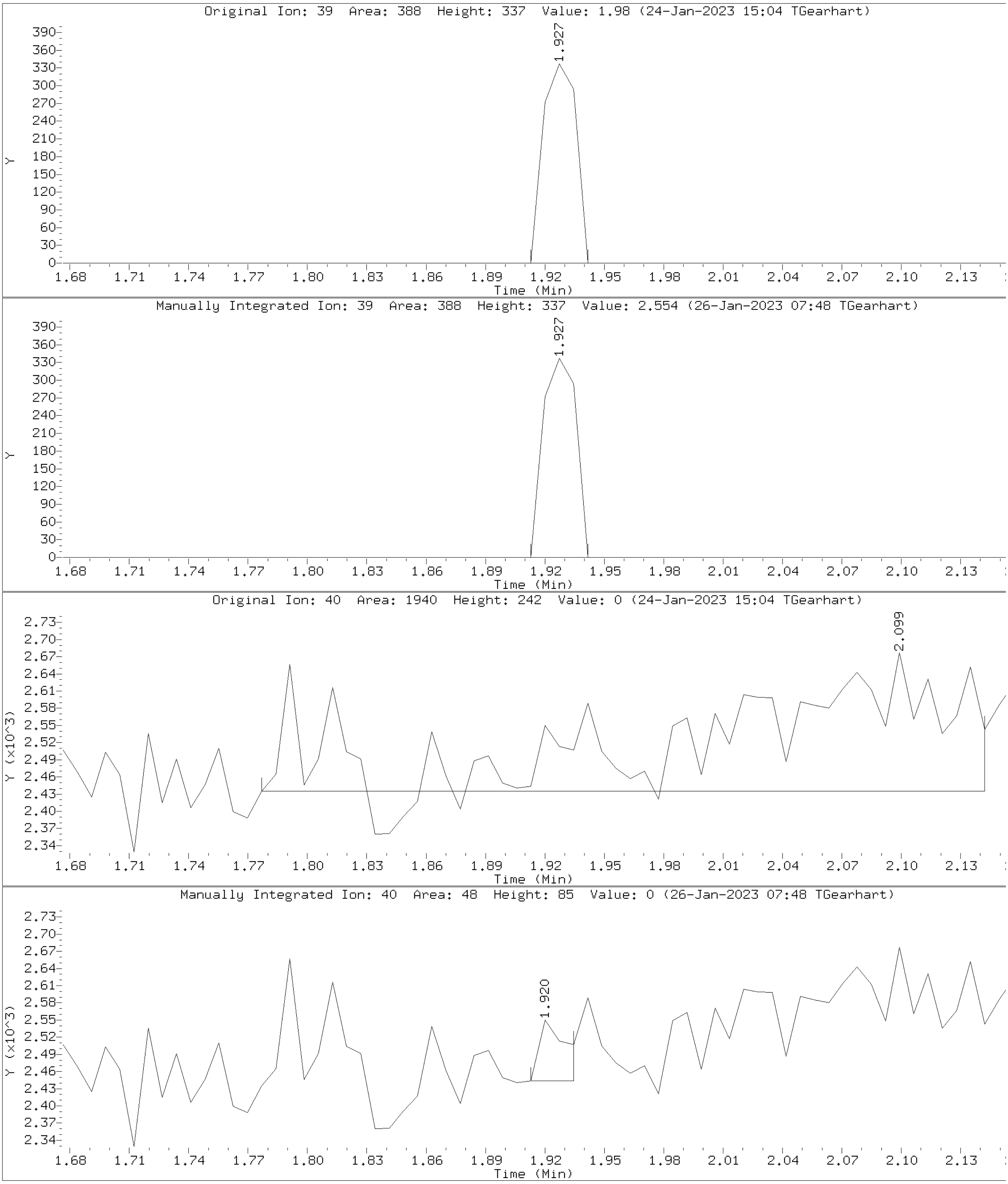
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8



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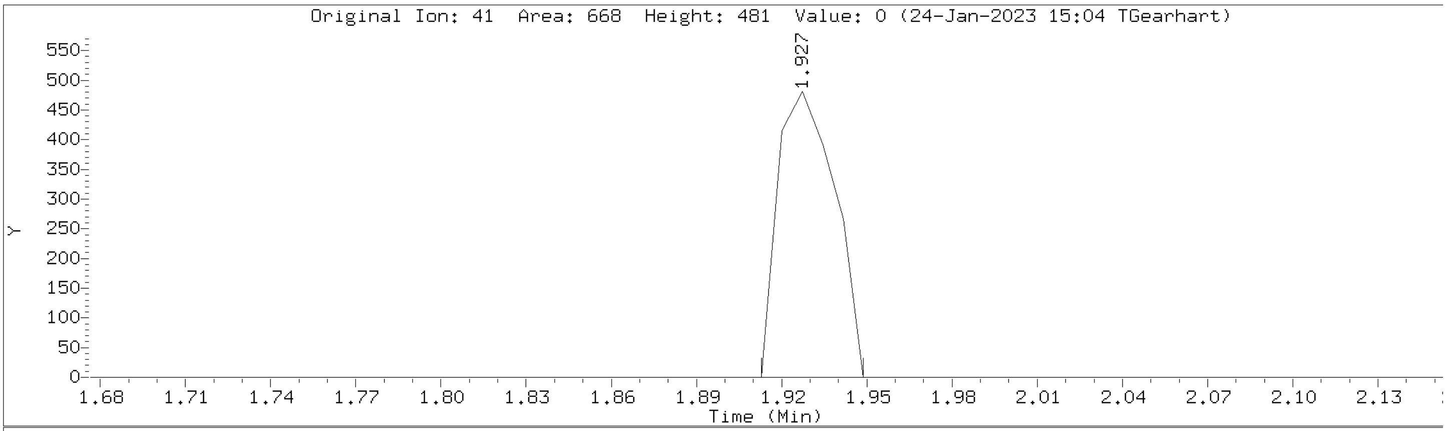
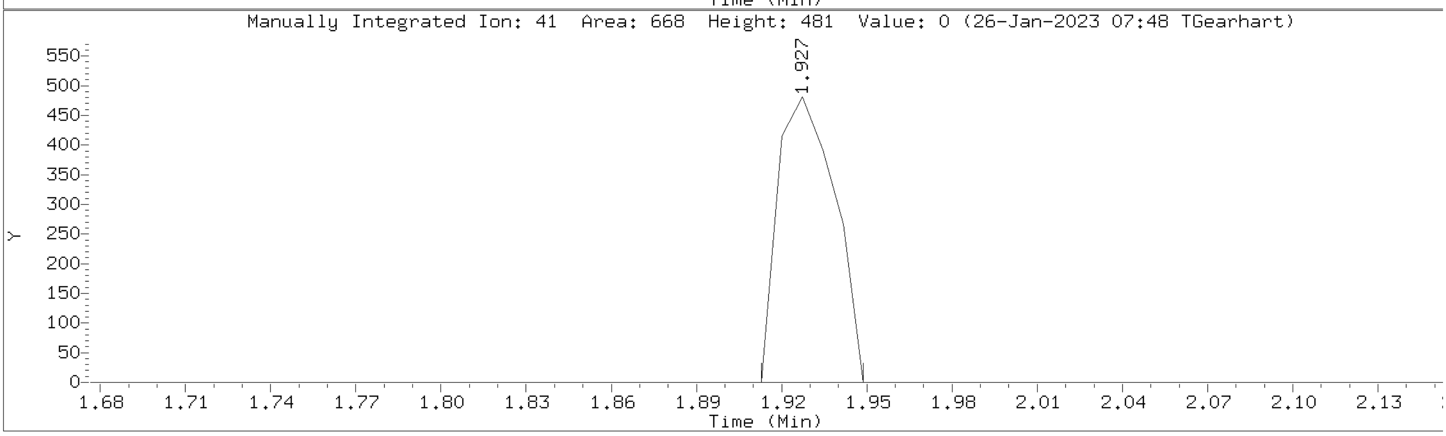
Lab Sample ID: 8260-CAL1





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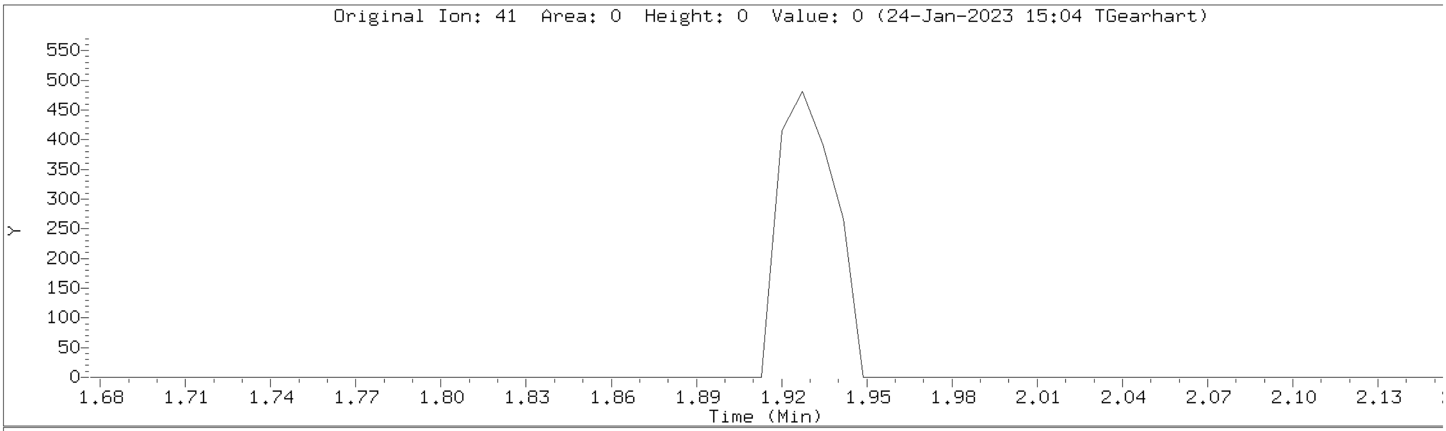
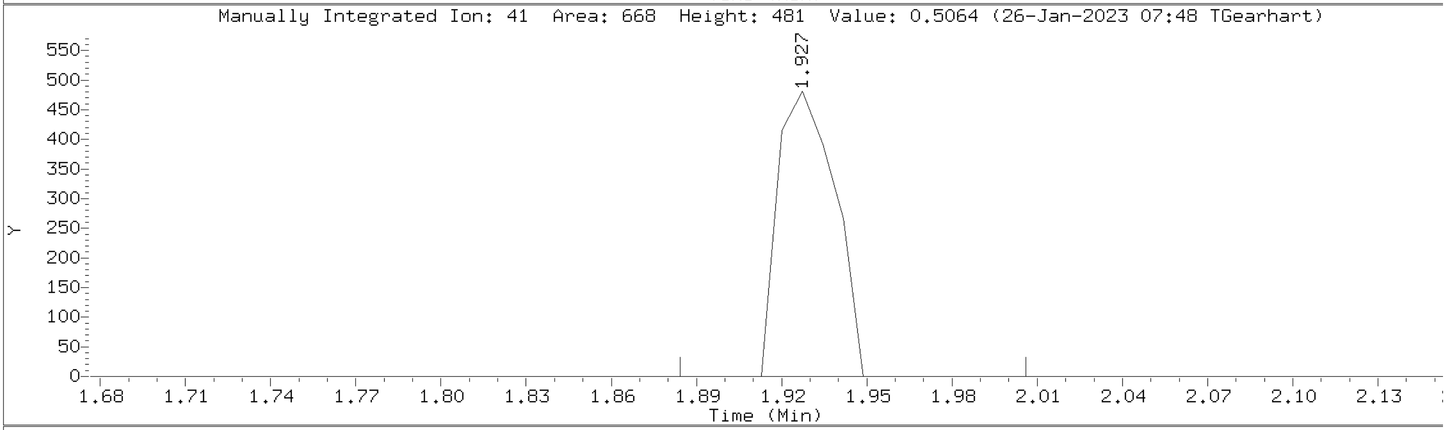
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1

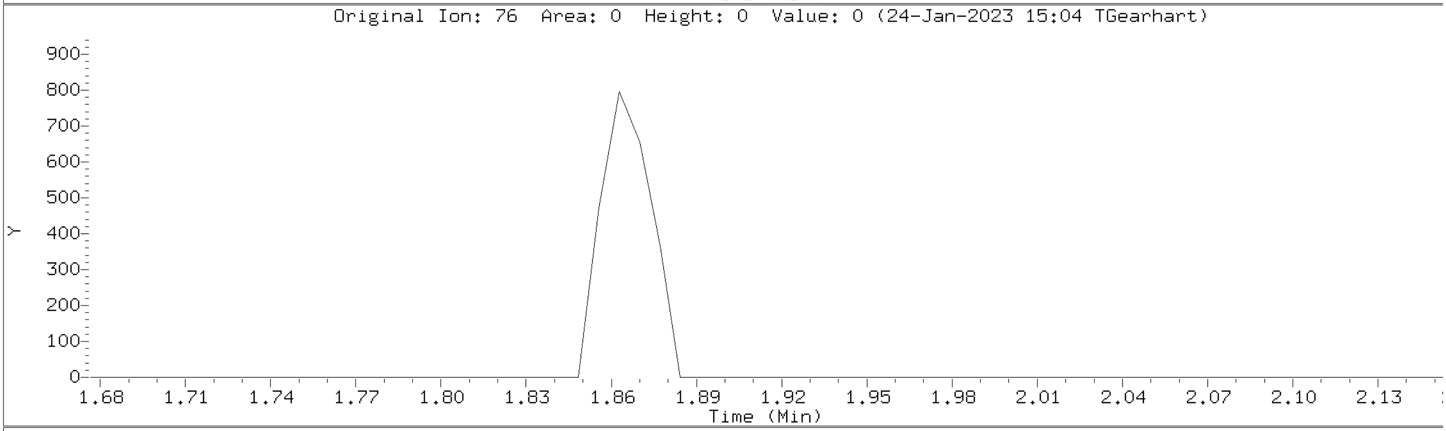
Original Ion: 41 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



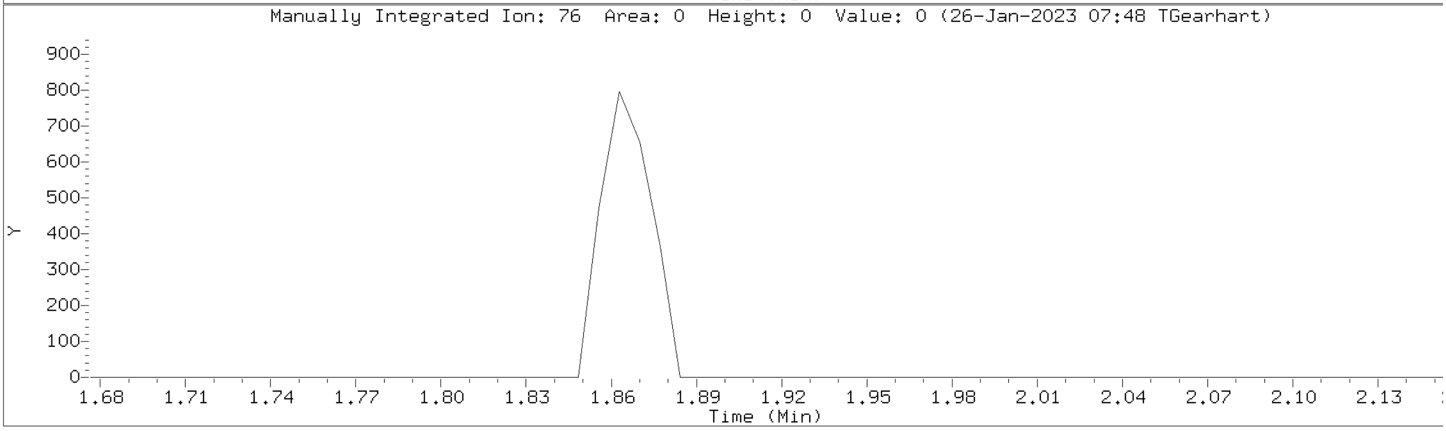
Manually Integrated Ion: 41 Area: 668 Height: 481 Value: 0.5064 (26-Jan-2023 07:48 TGearhart)



Original Ion: 76 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 76 Area: 0 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



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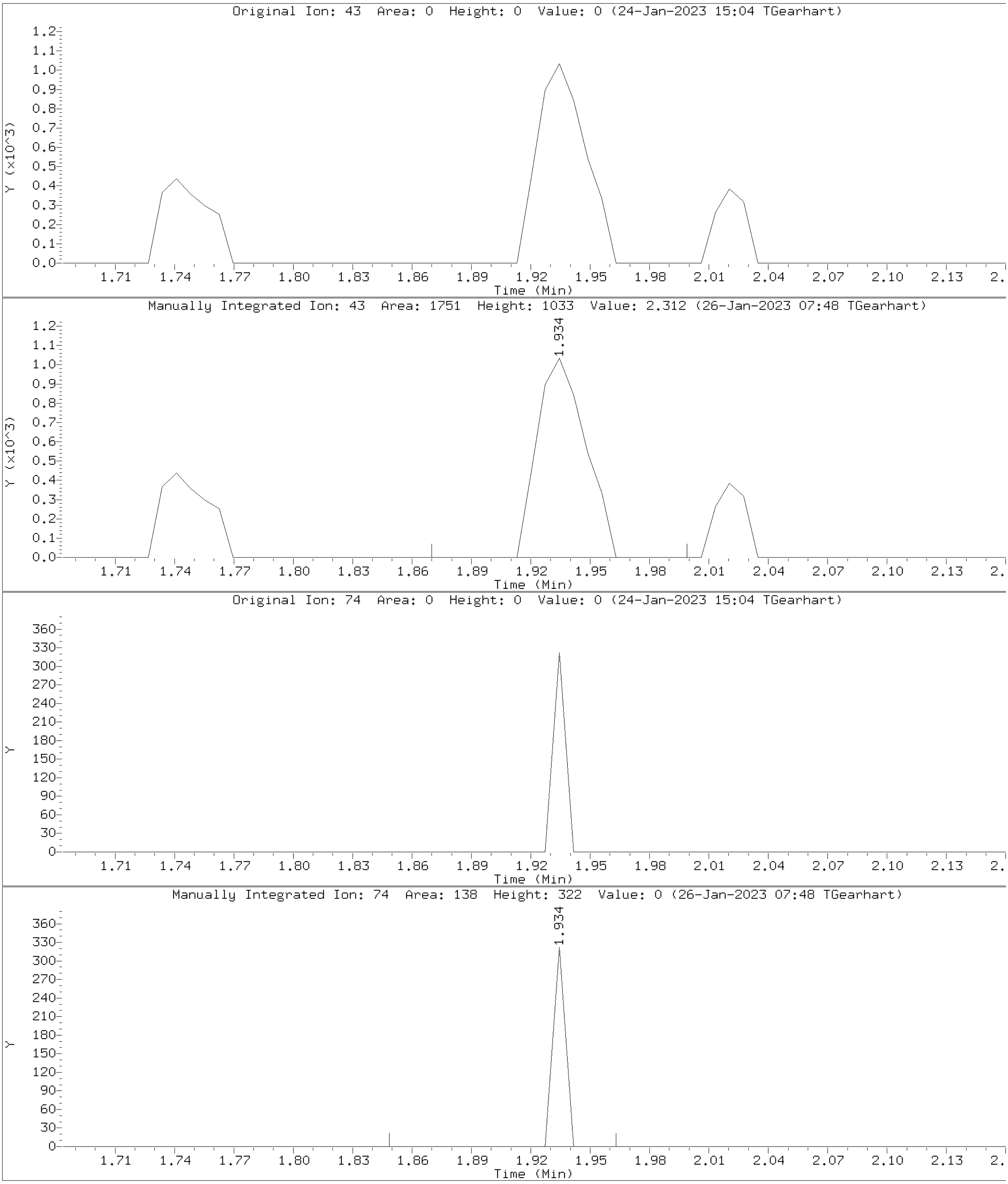
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Methyl Acetate   Review Code: NI
CAS Number: 79-20-9



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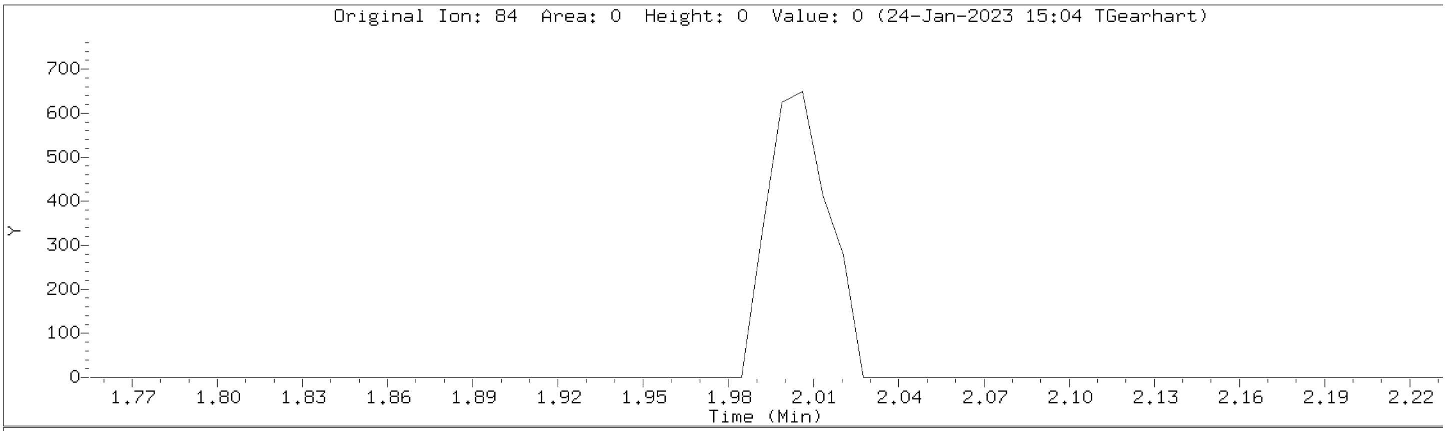
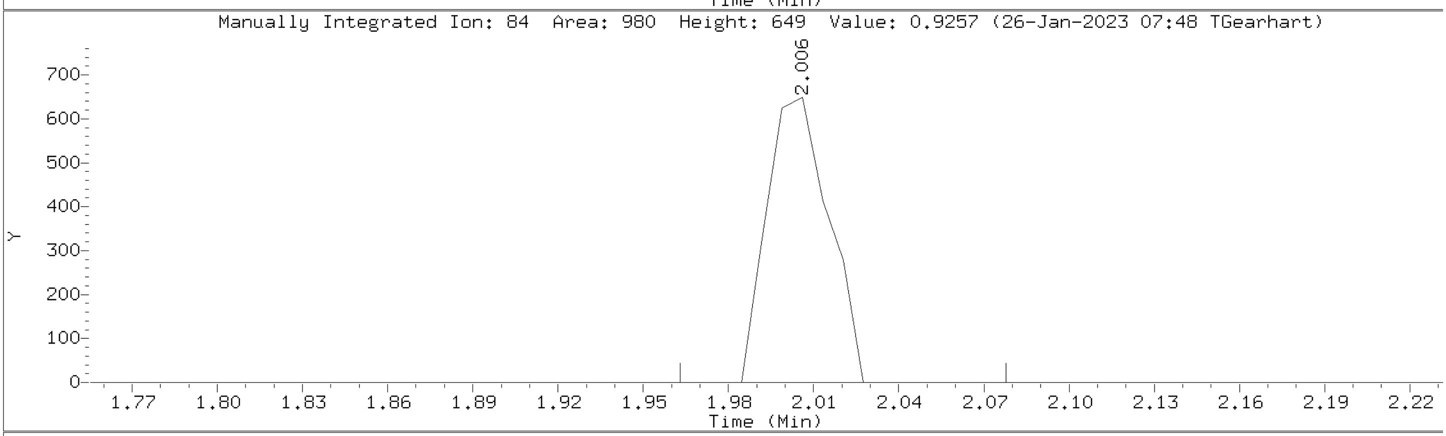
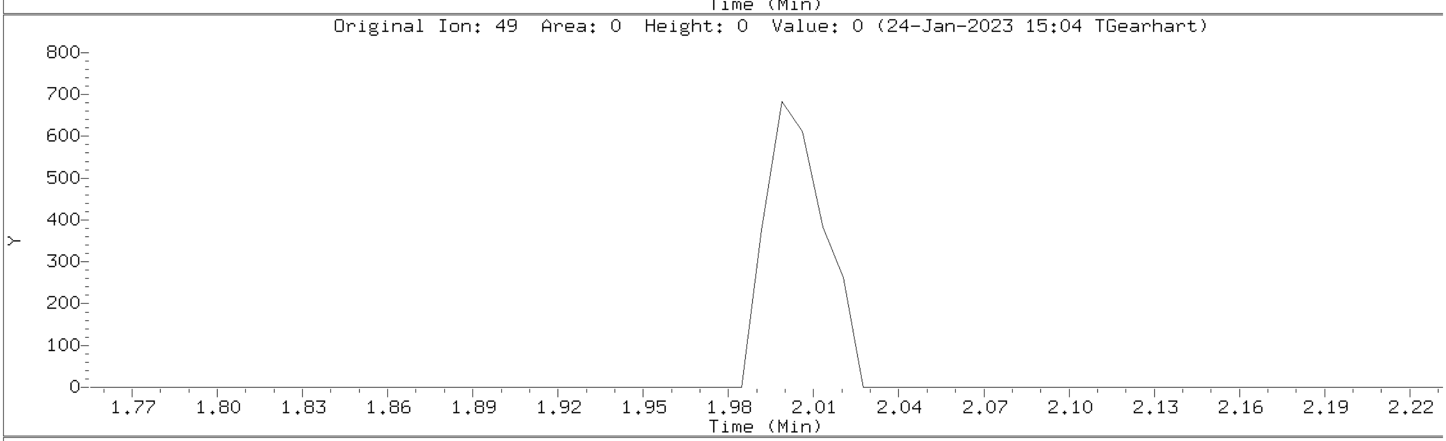
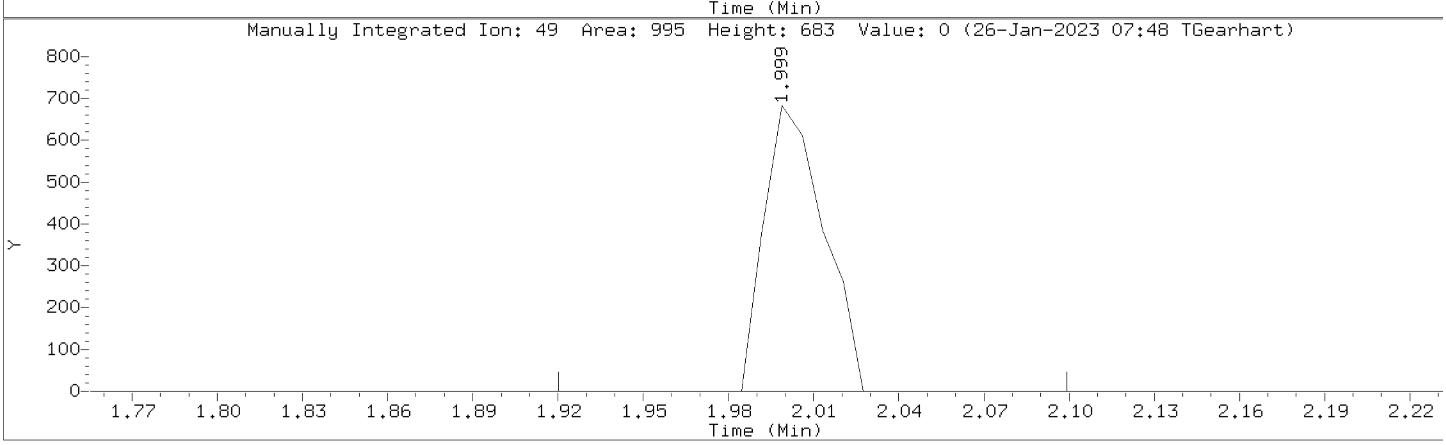
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Methylene Chloride   Review Code: NI
CAS Number: 75-09-2









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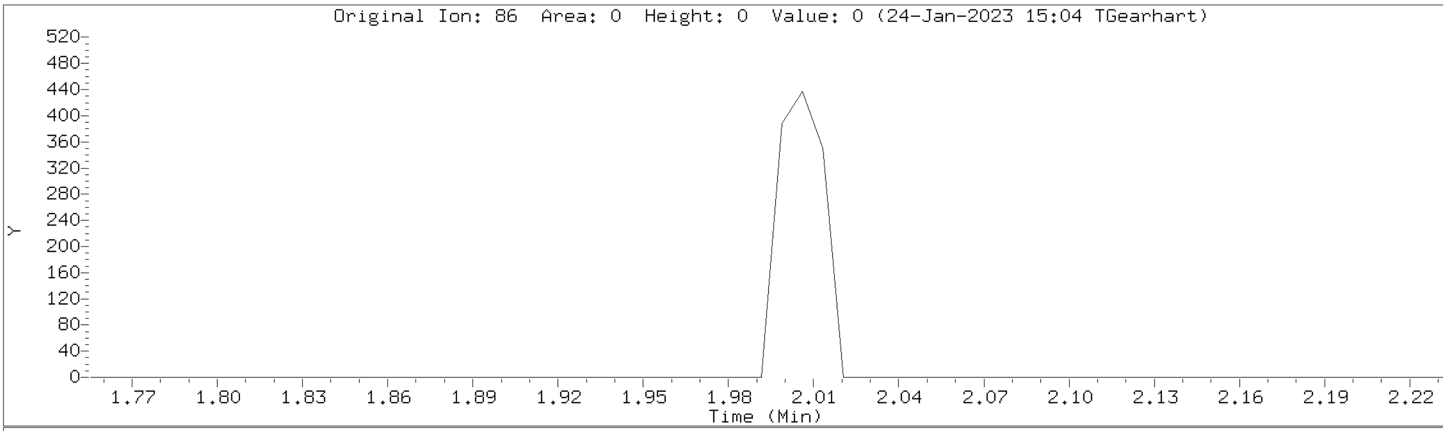
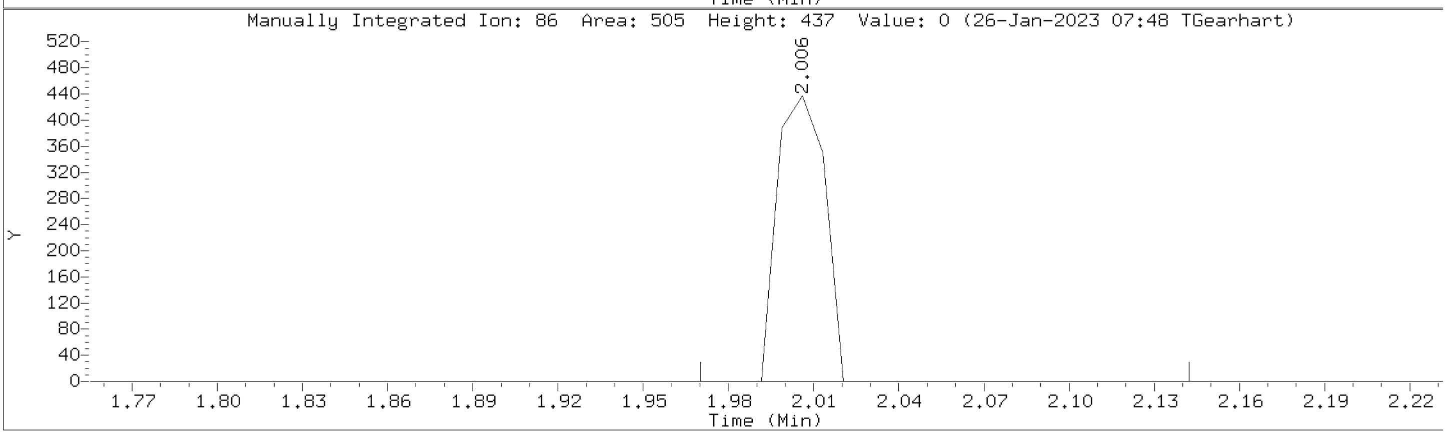
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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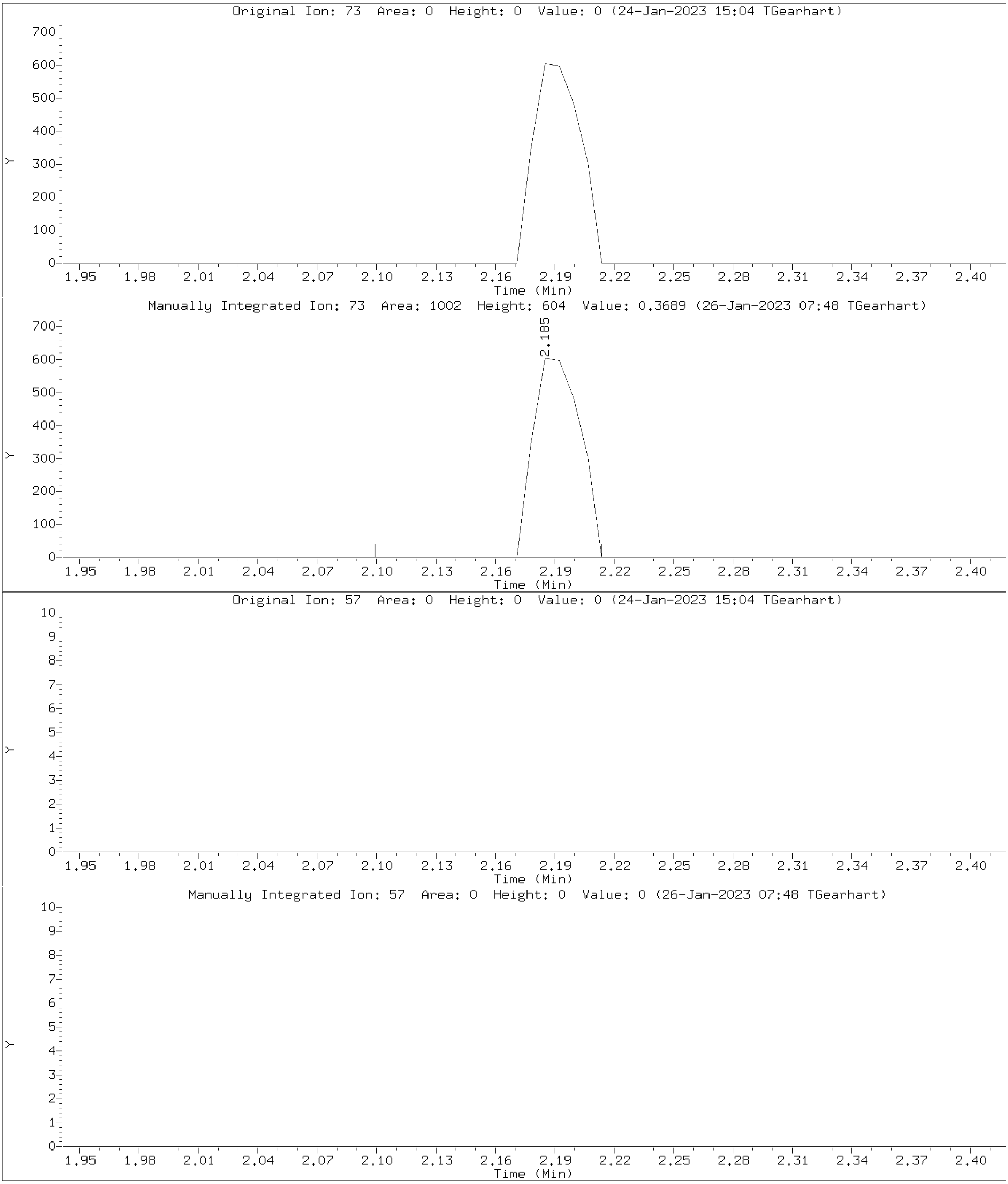
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Methyl-tert-butyl ether   Review Code: NI
CAS Number: 1634-04-4



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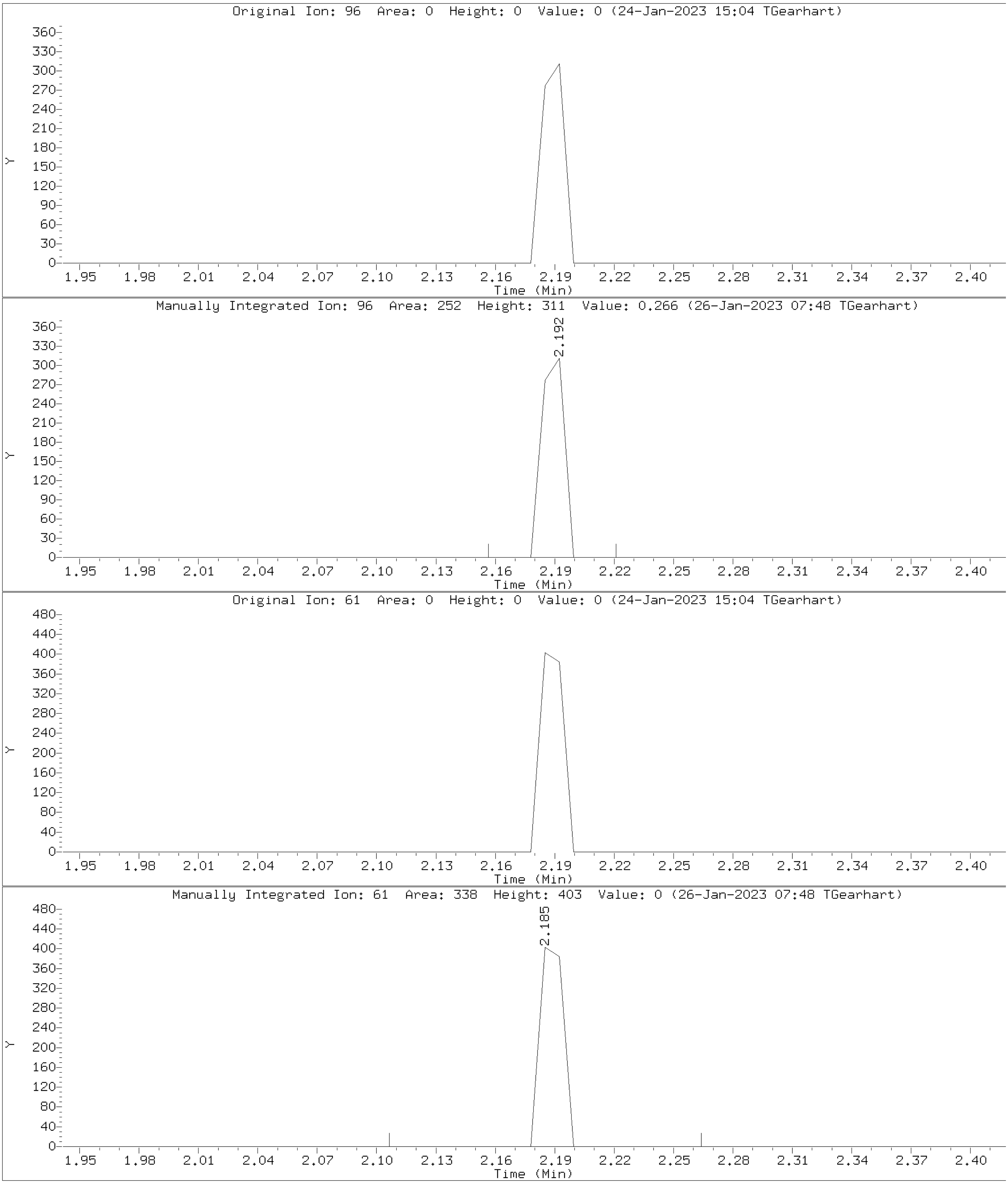
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichloroethene (trans)   Review Code: NI
CAS Number: 156-60-5



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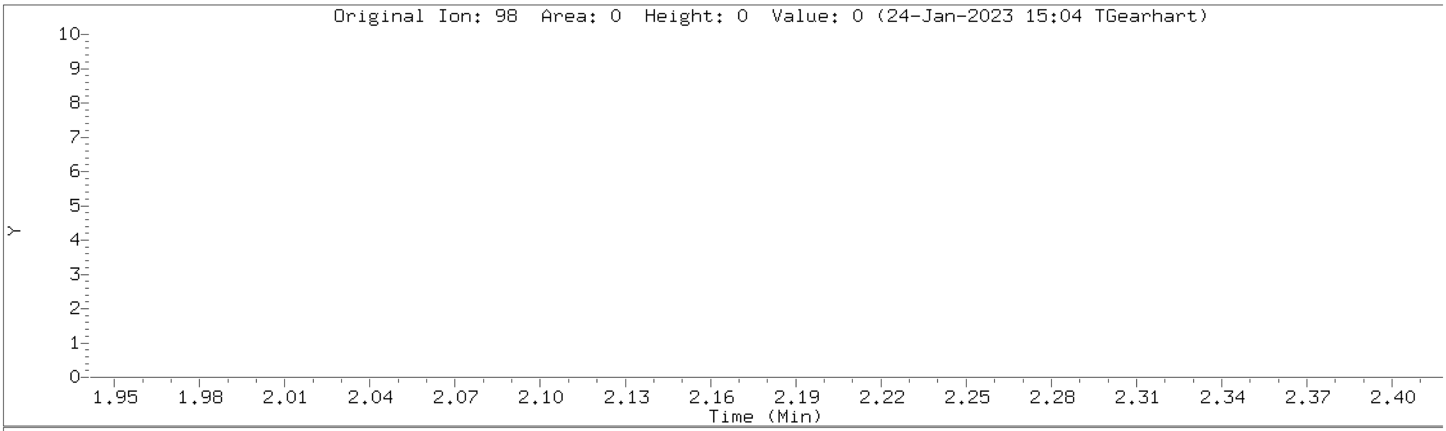
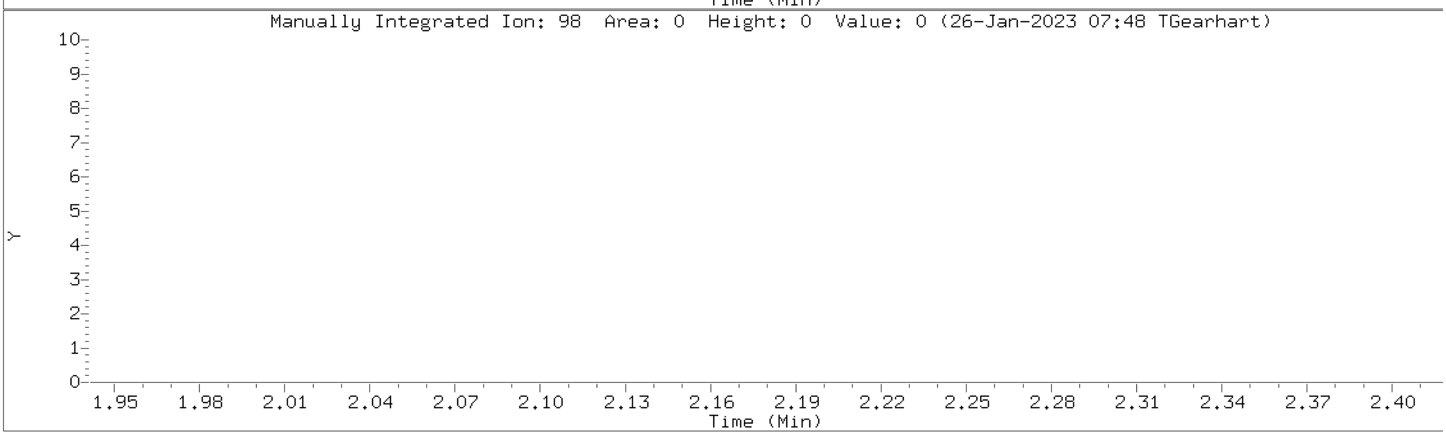
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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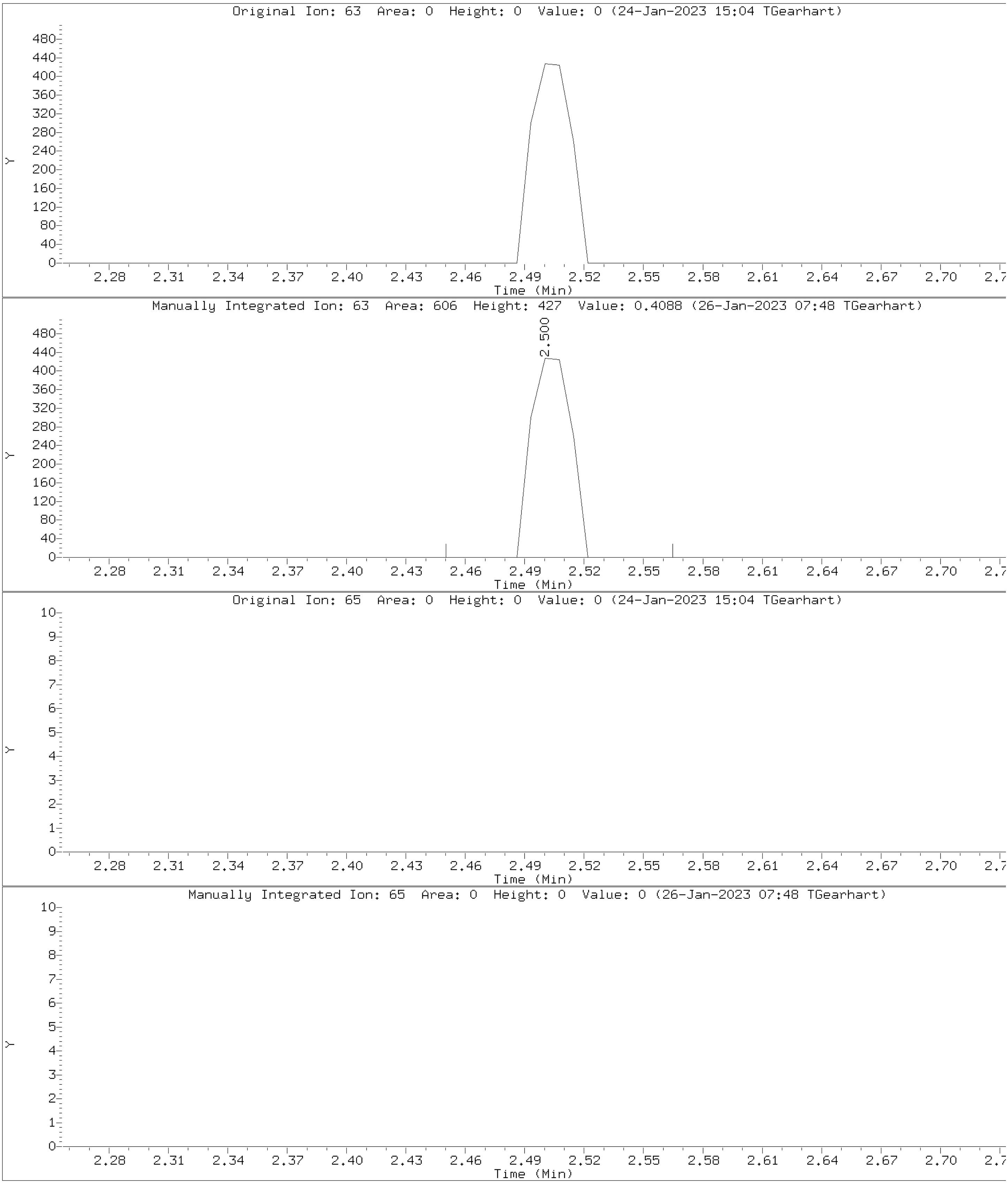
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloroethane   Review Code: NI
CAS Number: 75-34-3



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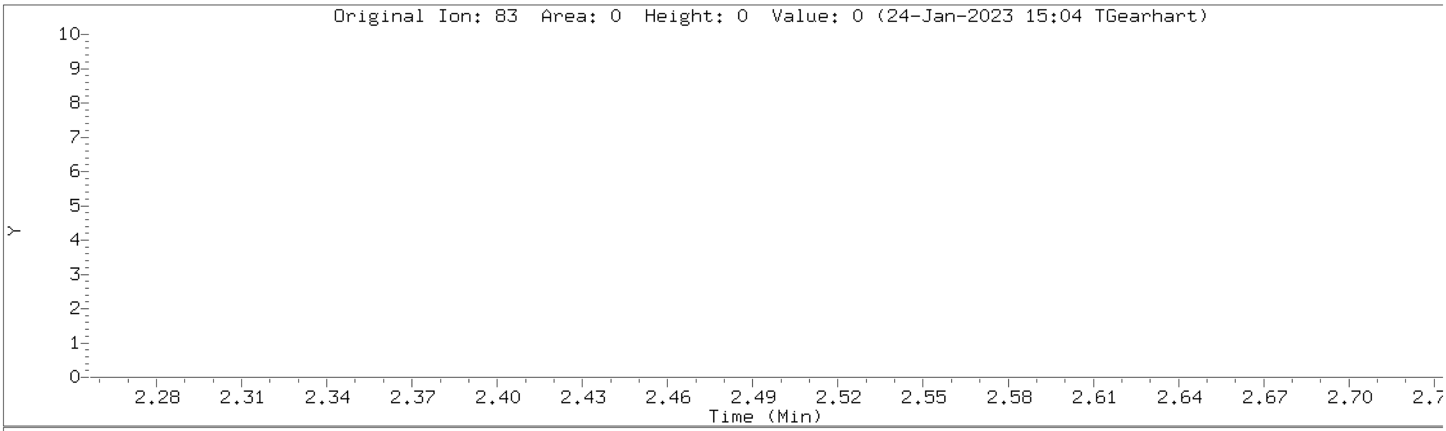
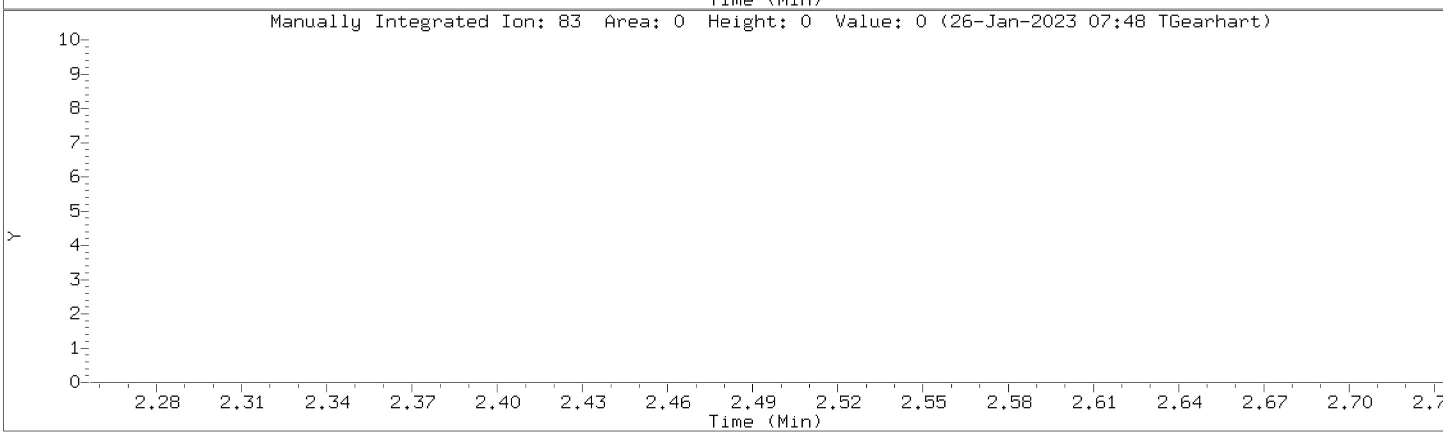
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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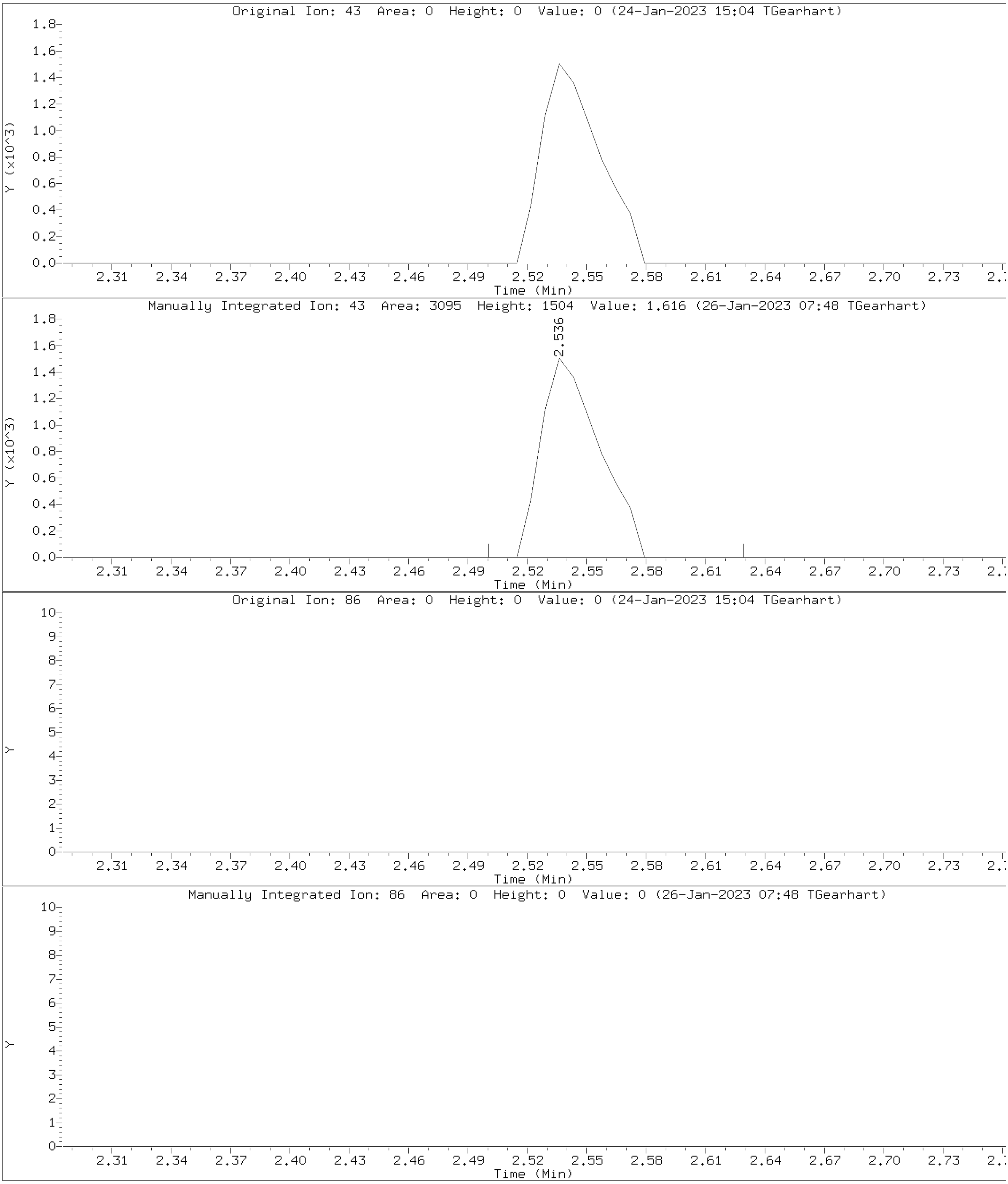
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Acetate   Review Code: NI
CAS Number: 108-05-4



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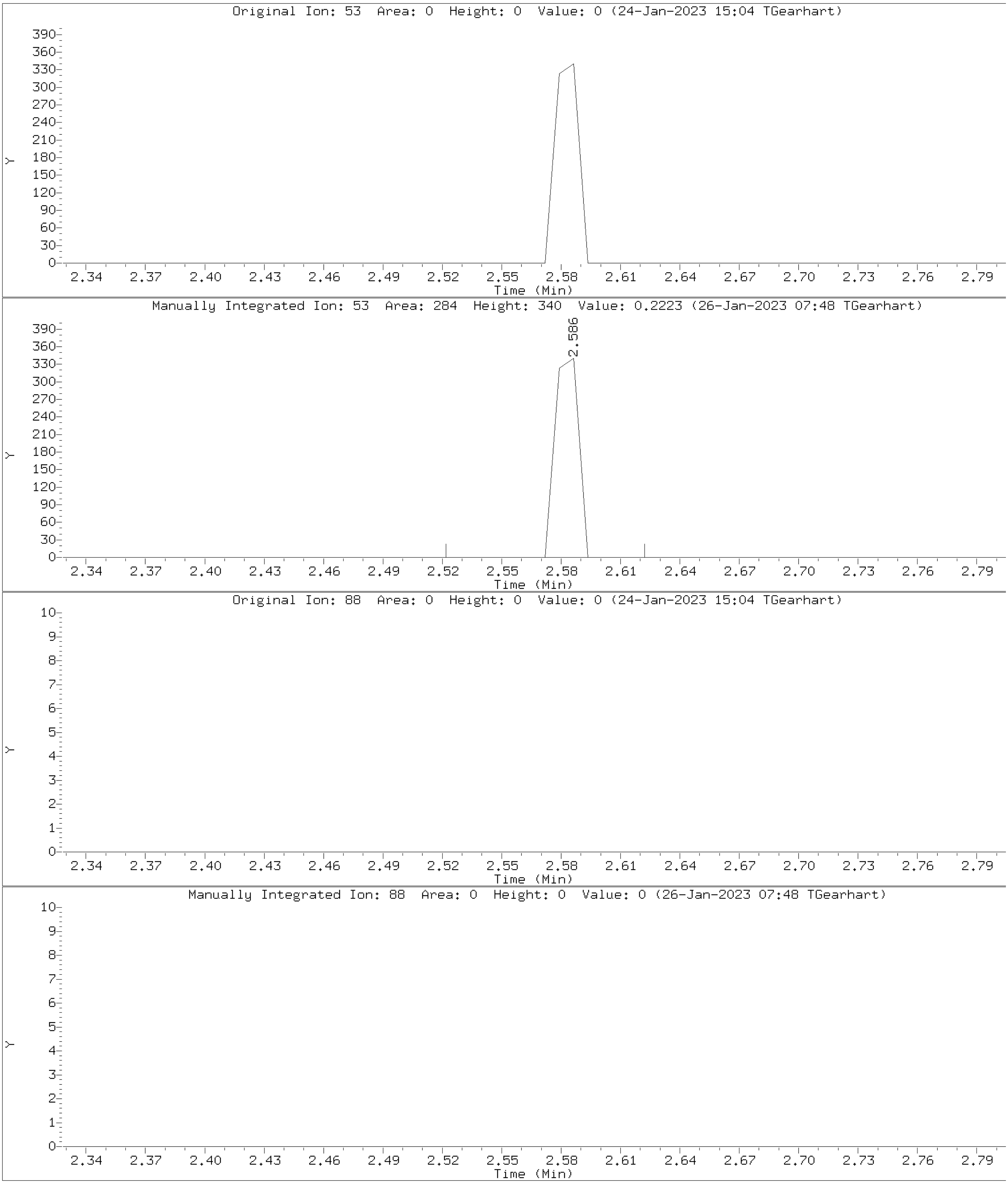
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: chloroprene   Review Code: NI
CAS Number: 126-99-8



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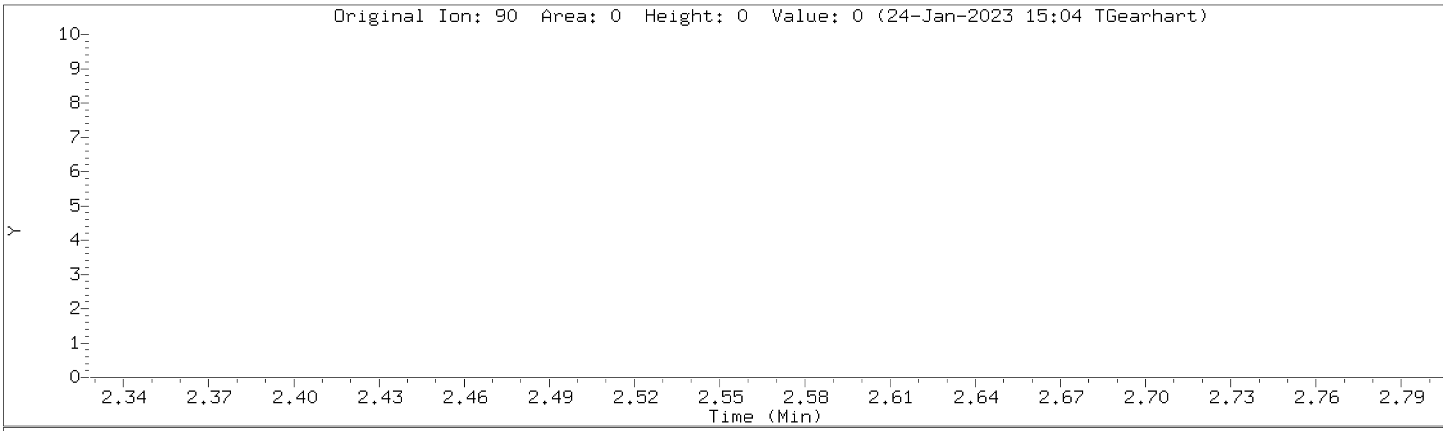
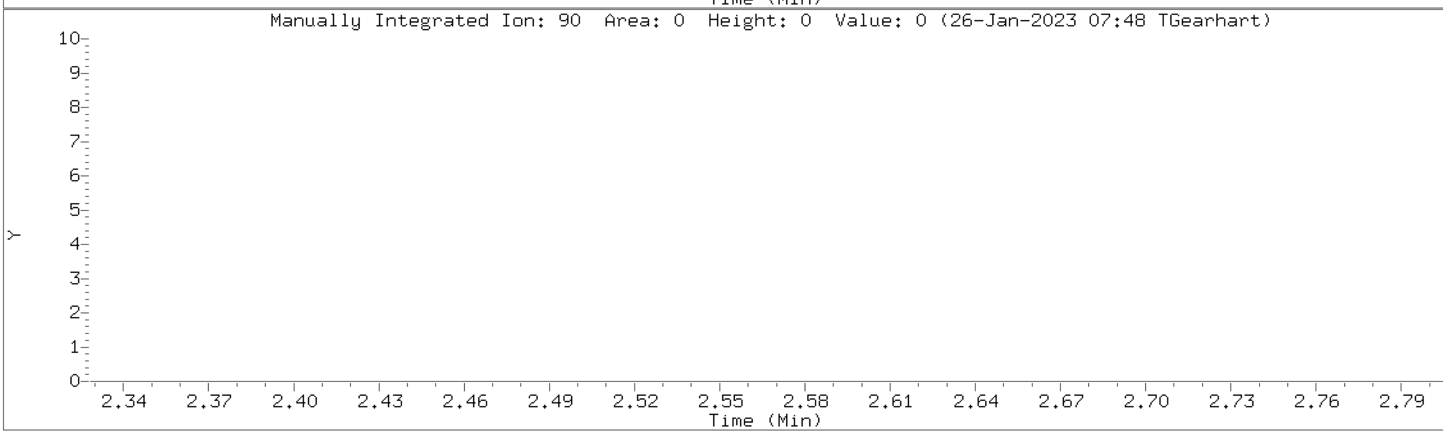
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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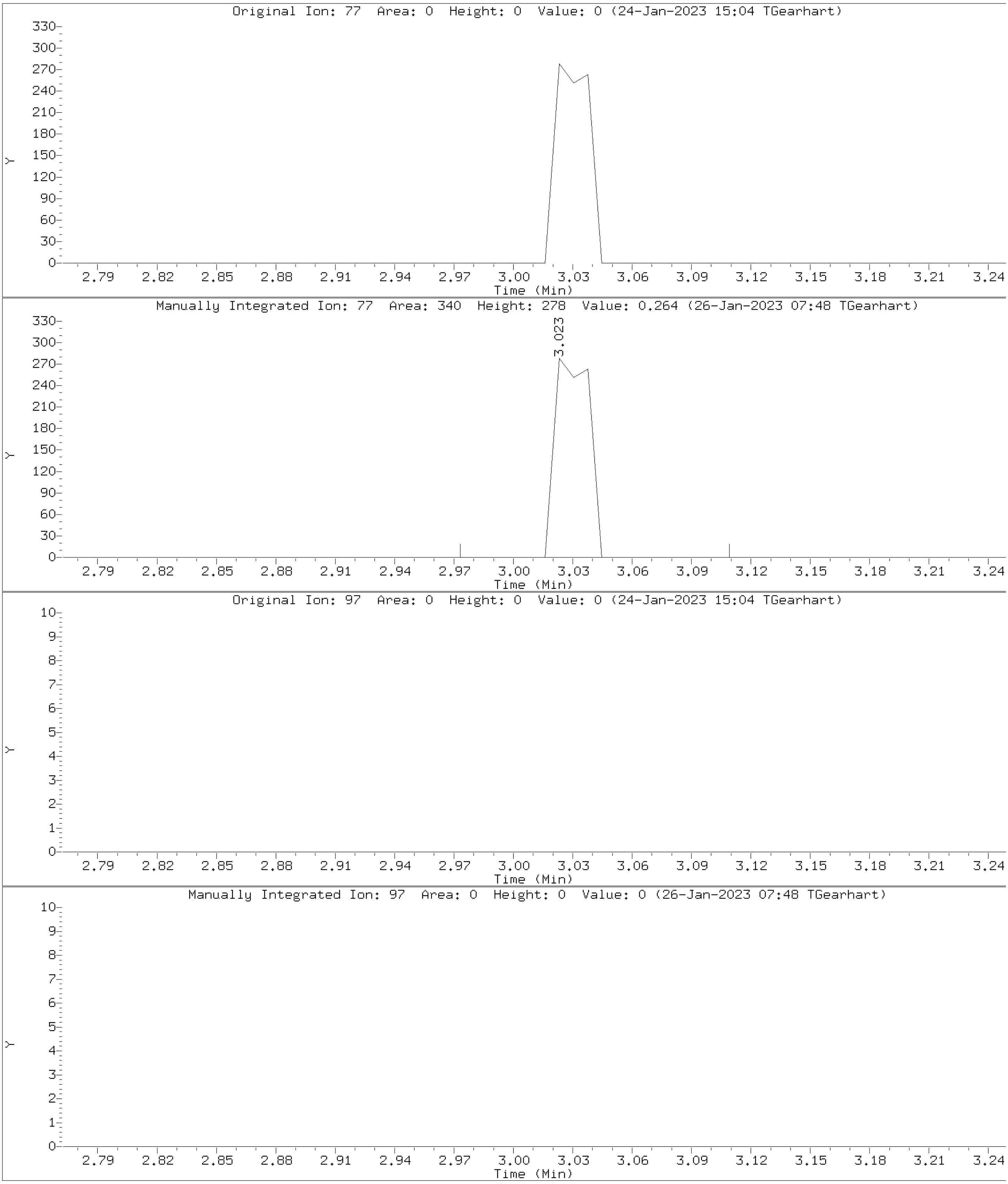
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 2,2-Dichloropropane   Review Code: NI
CAS Number: 594-20-7



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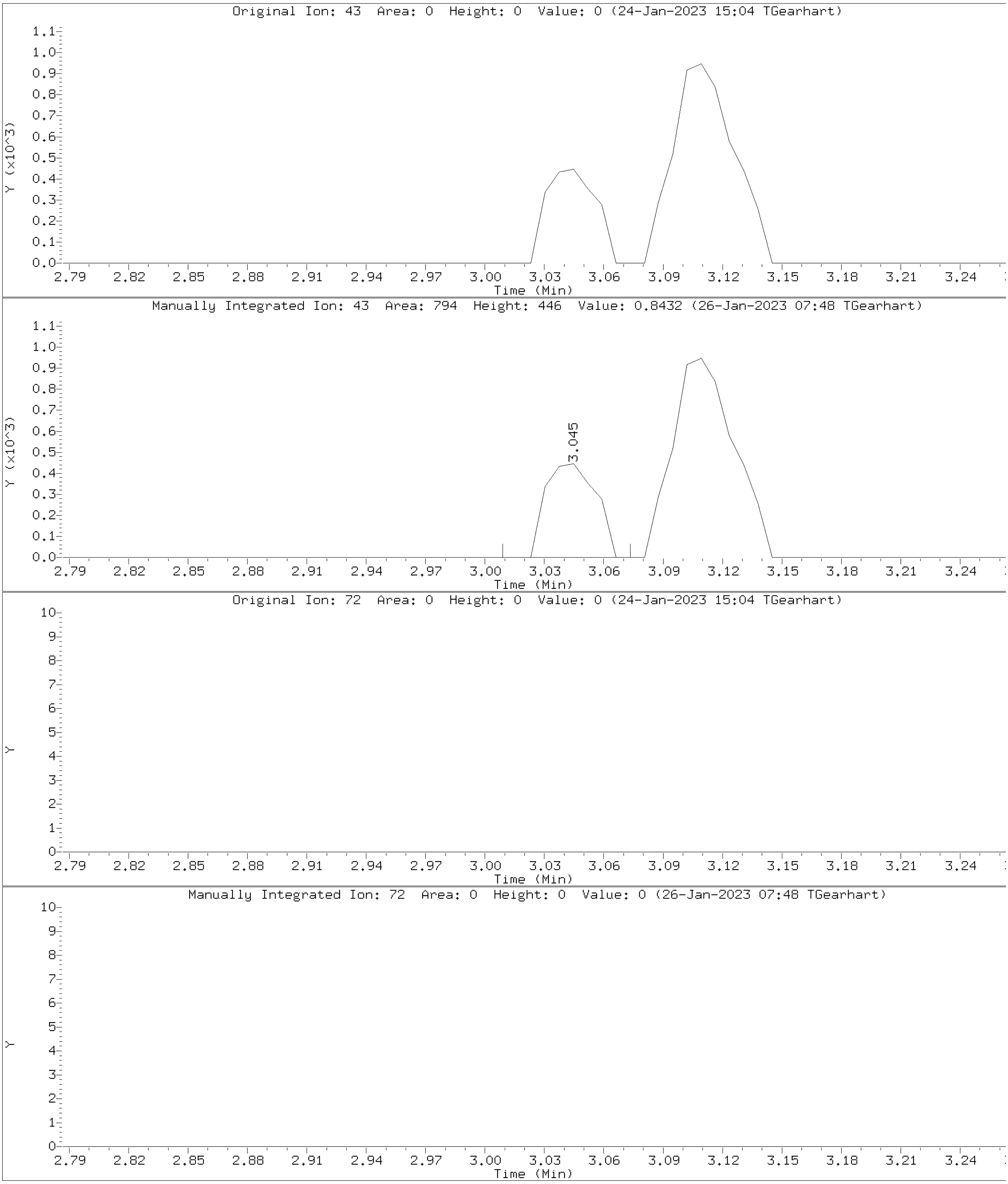
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 2-Butanone   Review Code: NI
CAS Number: 78-93-3



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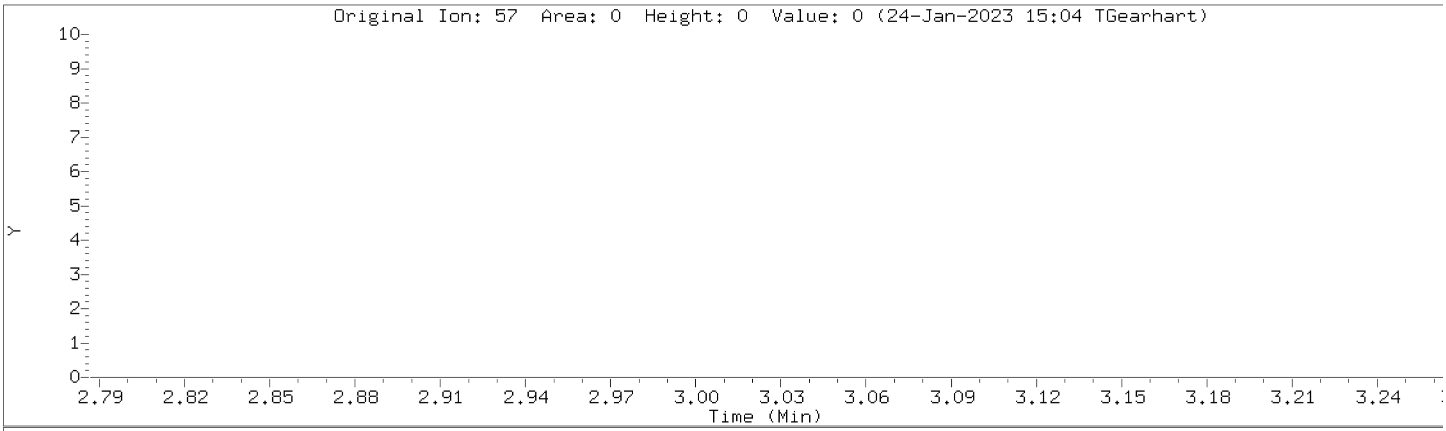
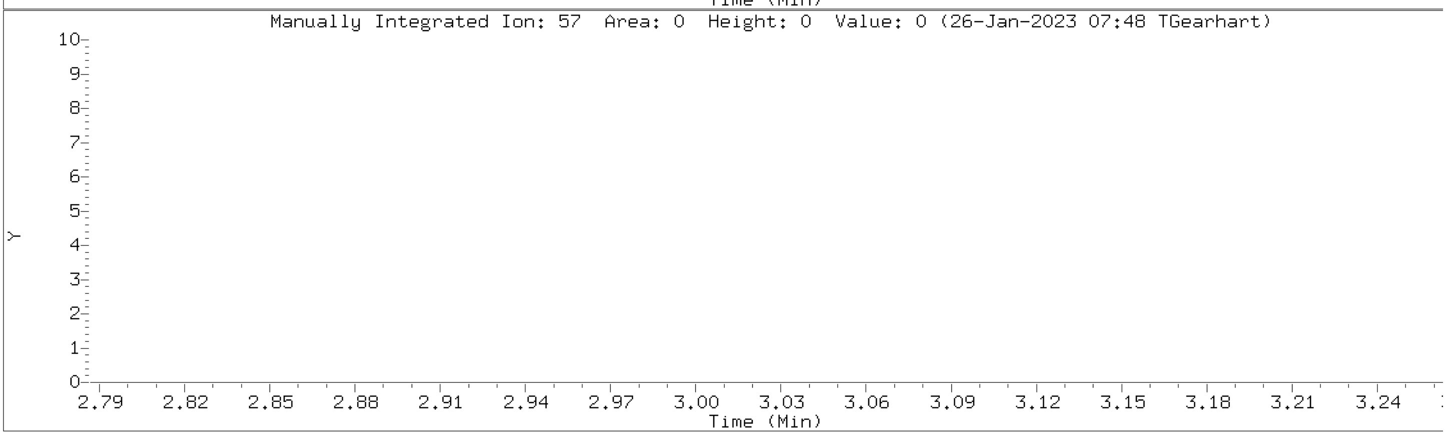
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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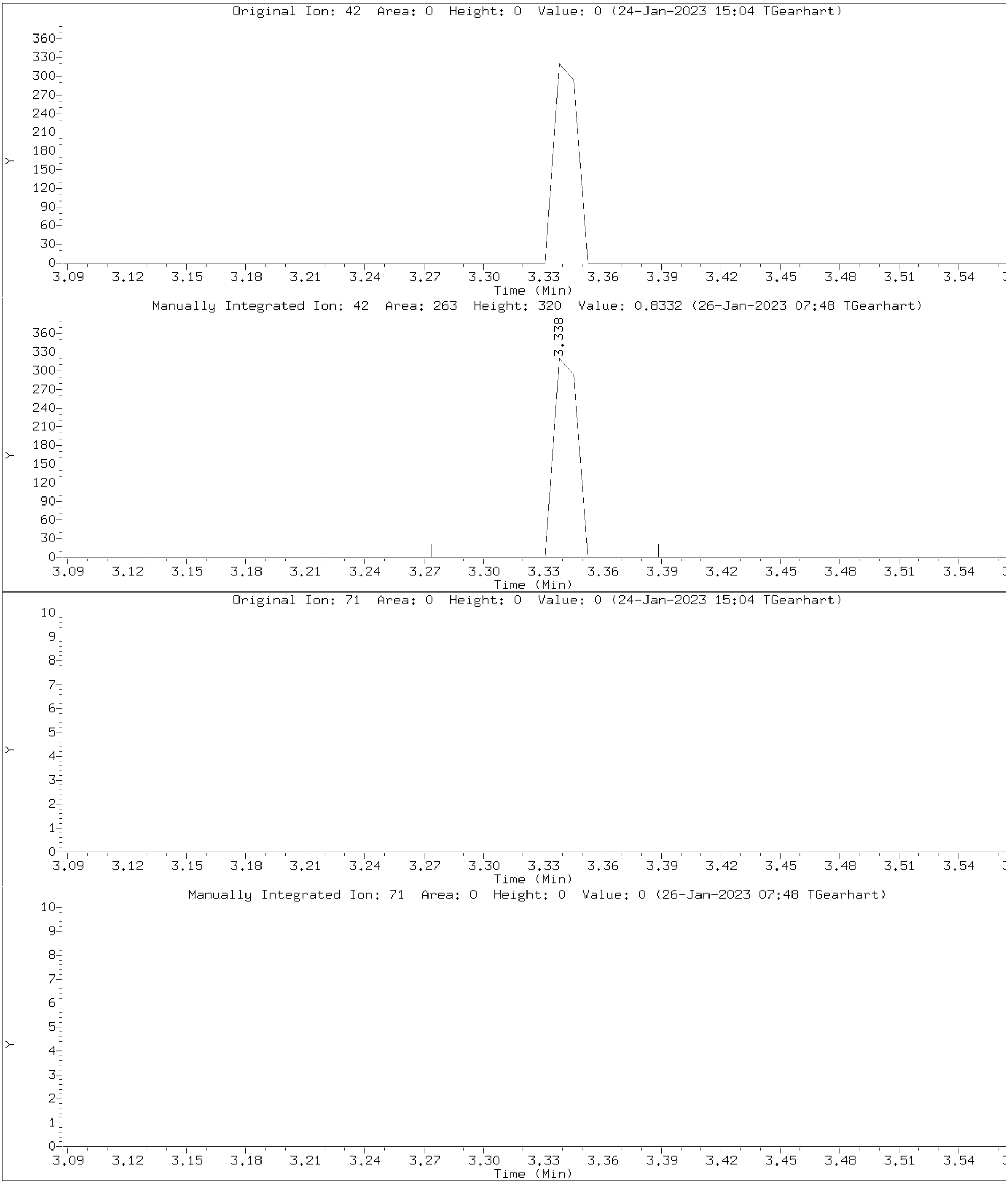
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Tetrahydrofuran   Review Code: NI
CAS Number:



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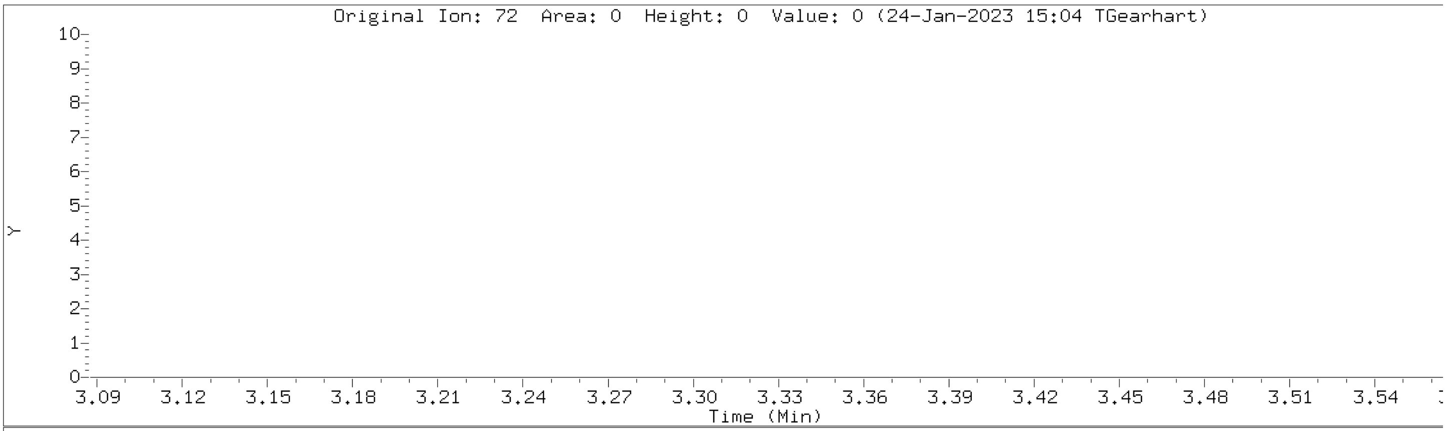
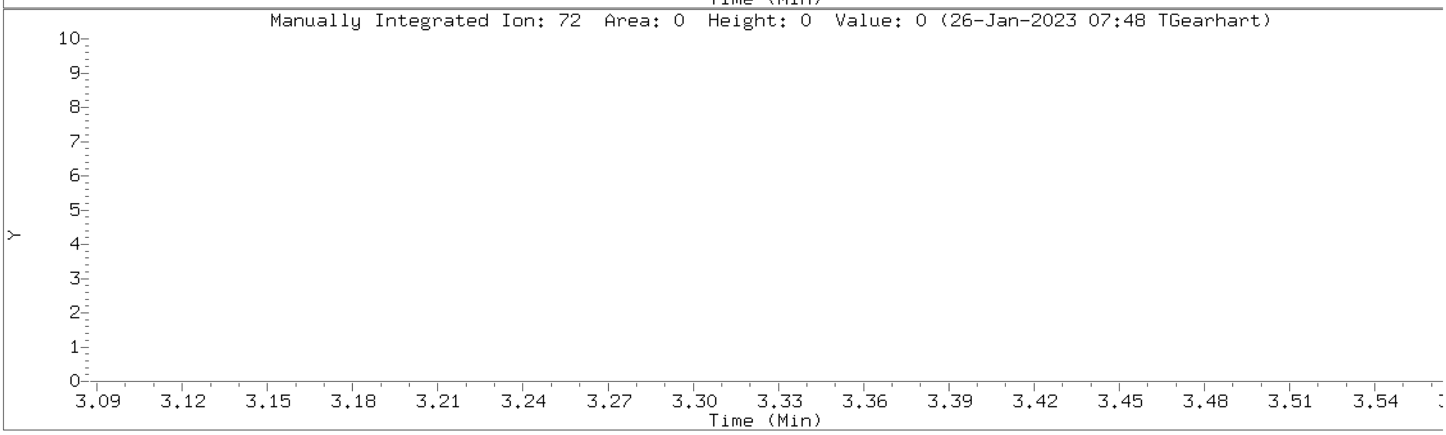
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

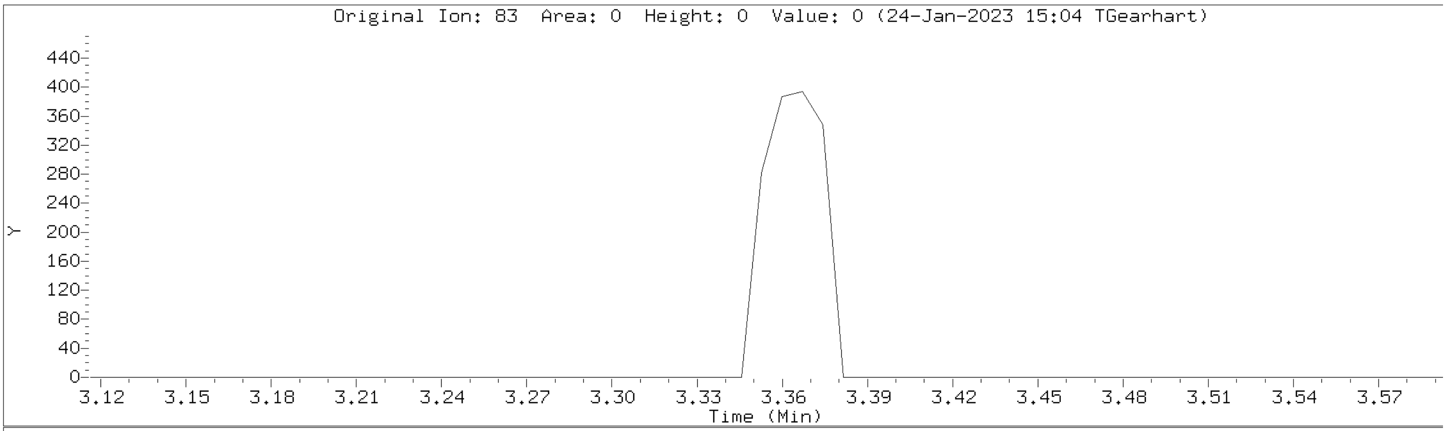




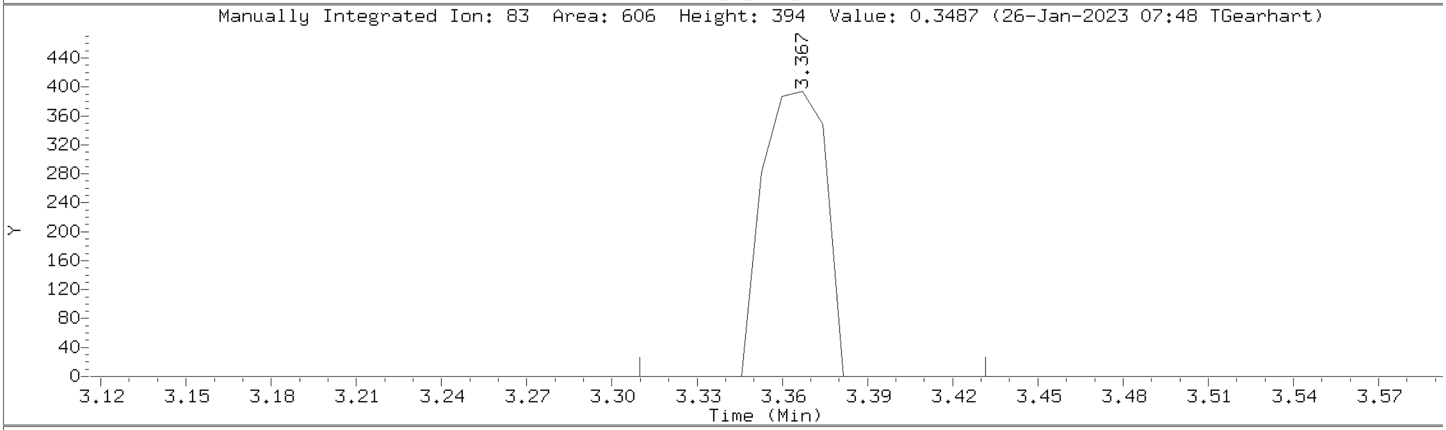
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Chloroform   Review Code: NI
CAS Number: 67-66-3

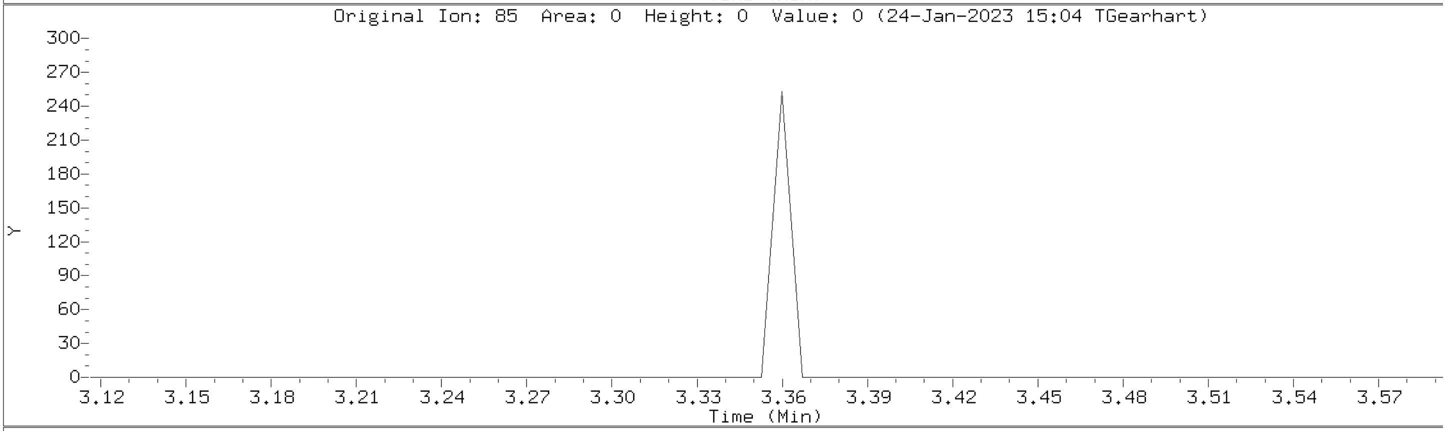
Original Ion: 83 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



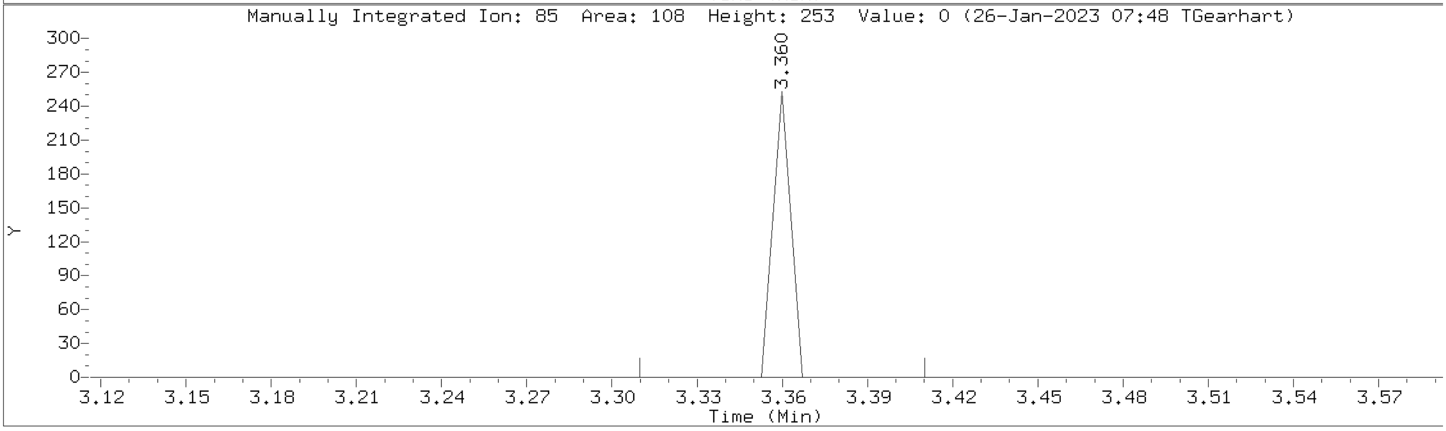
Manually Integrated Ion: 83 Area: 606 Height: 394 Value: 0.3487 (26-Jan-2023 07:48 TGearhart)



Original Ion: 85 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)

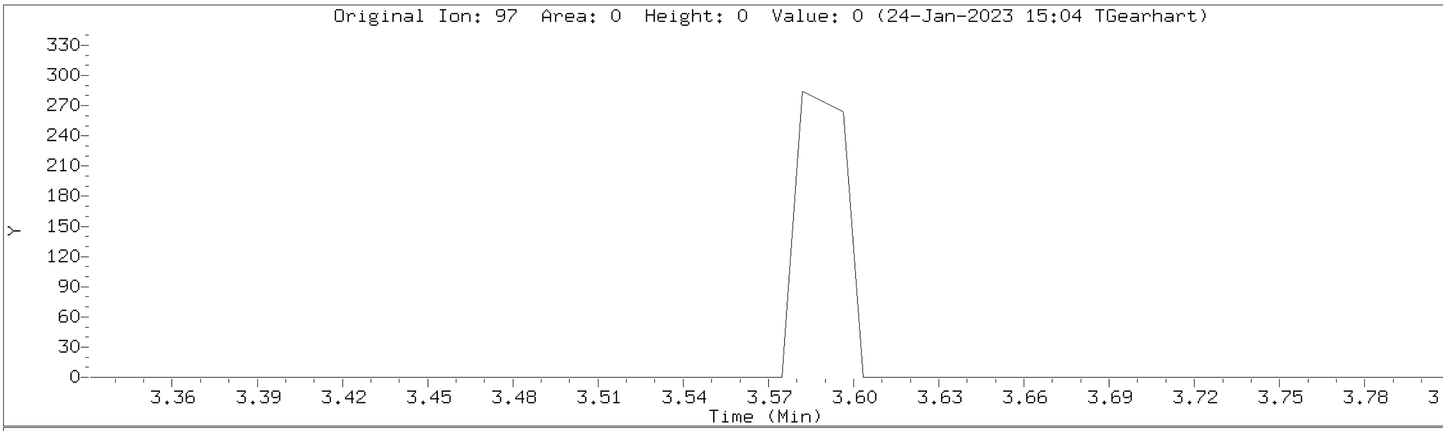


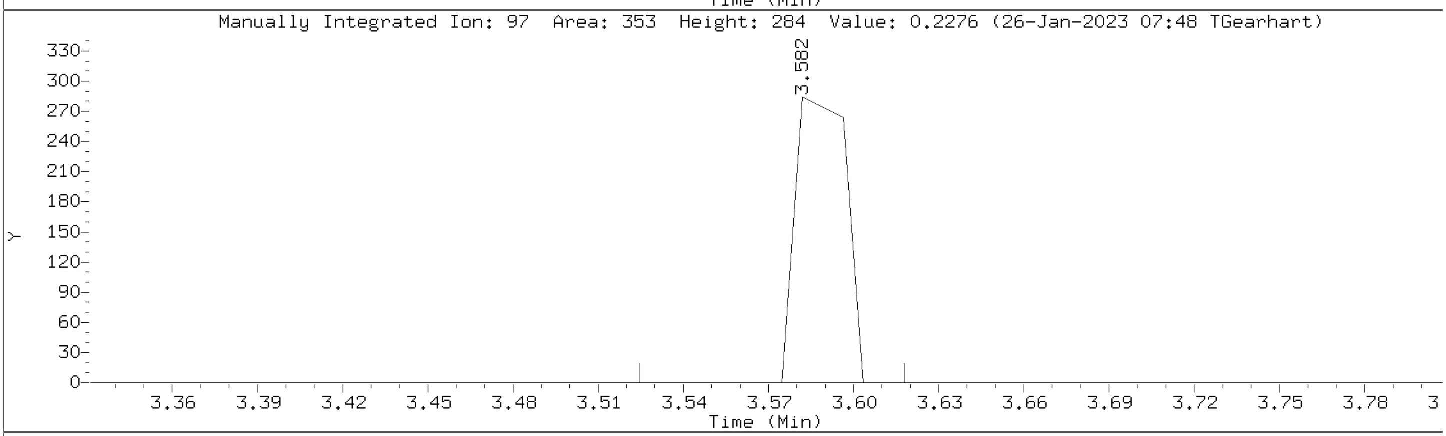
Manually Integrated Ion: 85 Area: 108 Height: 253 Value: 0 (26-Jan-2023 07:48 TGearhart)

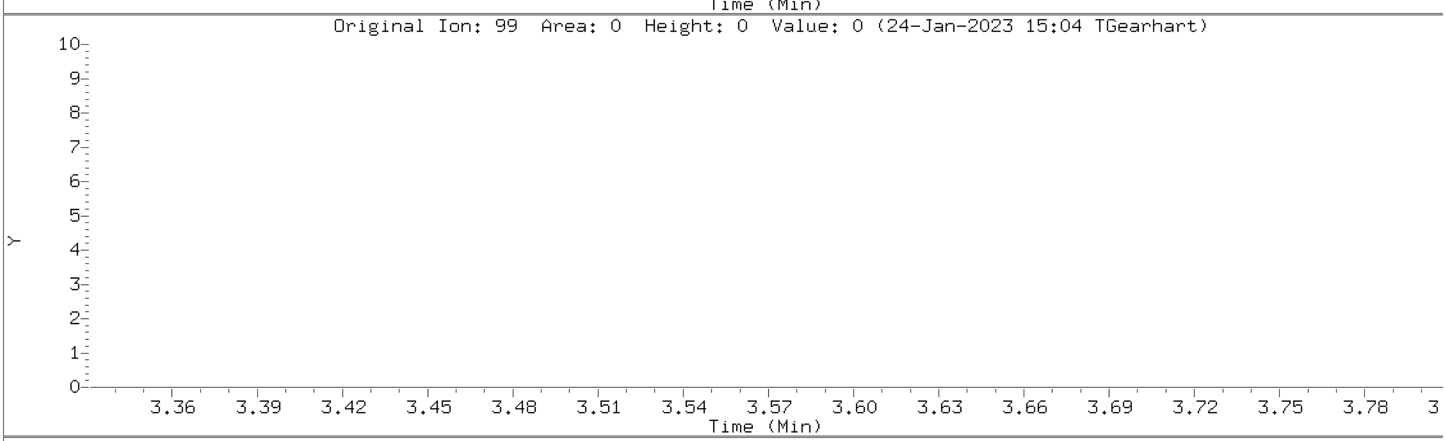


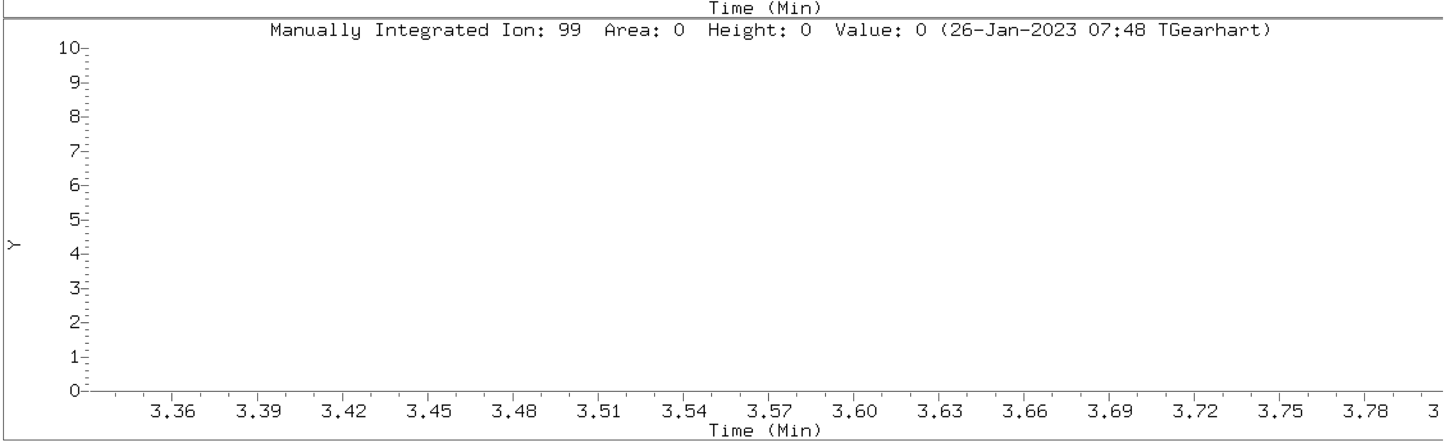
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,1-Trichloroethane   Review Code: NI
CAS Number: 71-55-6









Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
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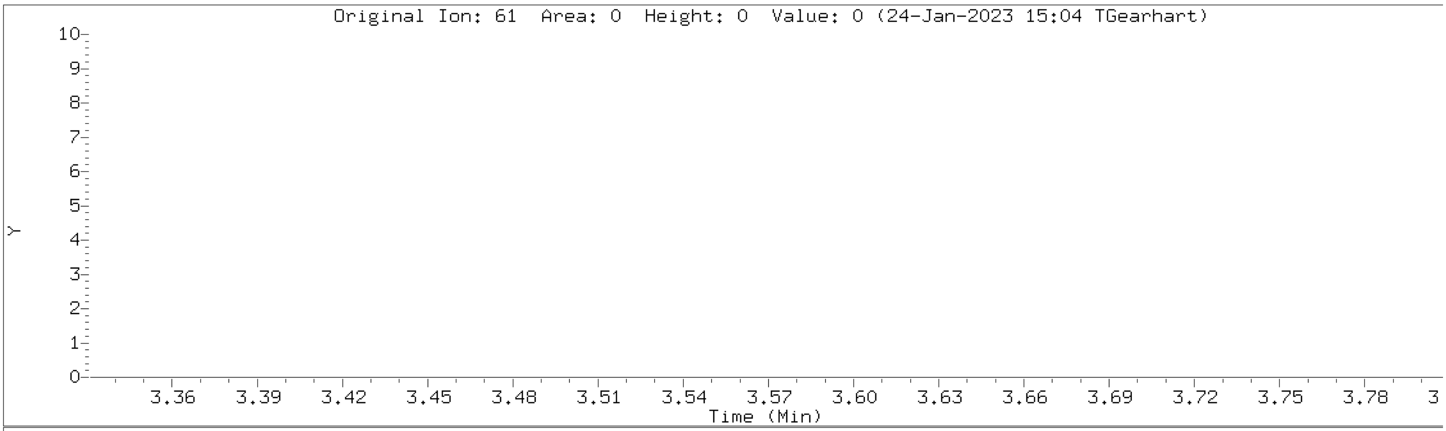
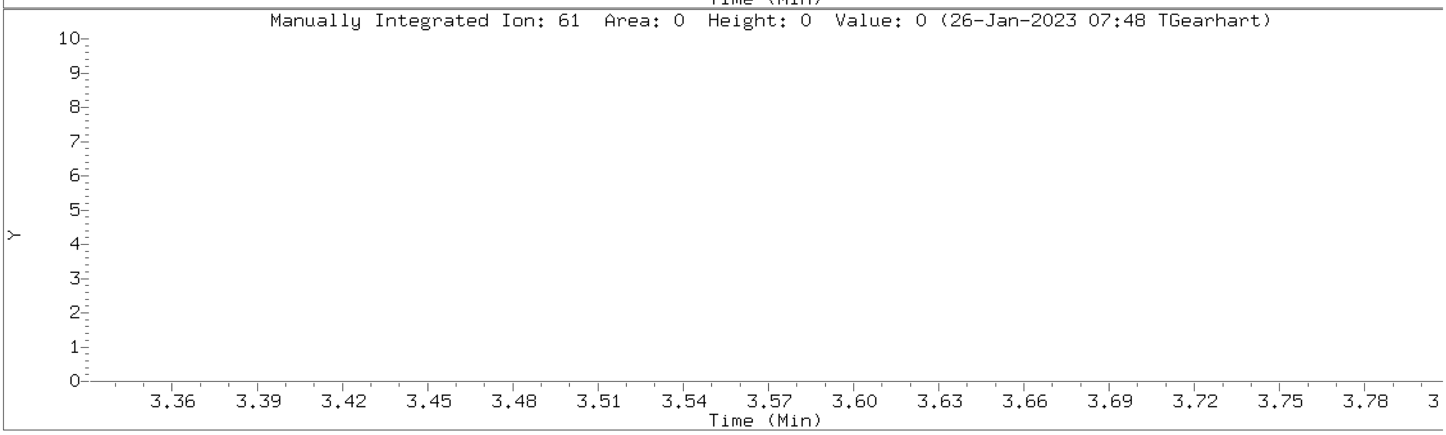
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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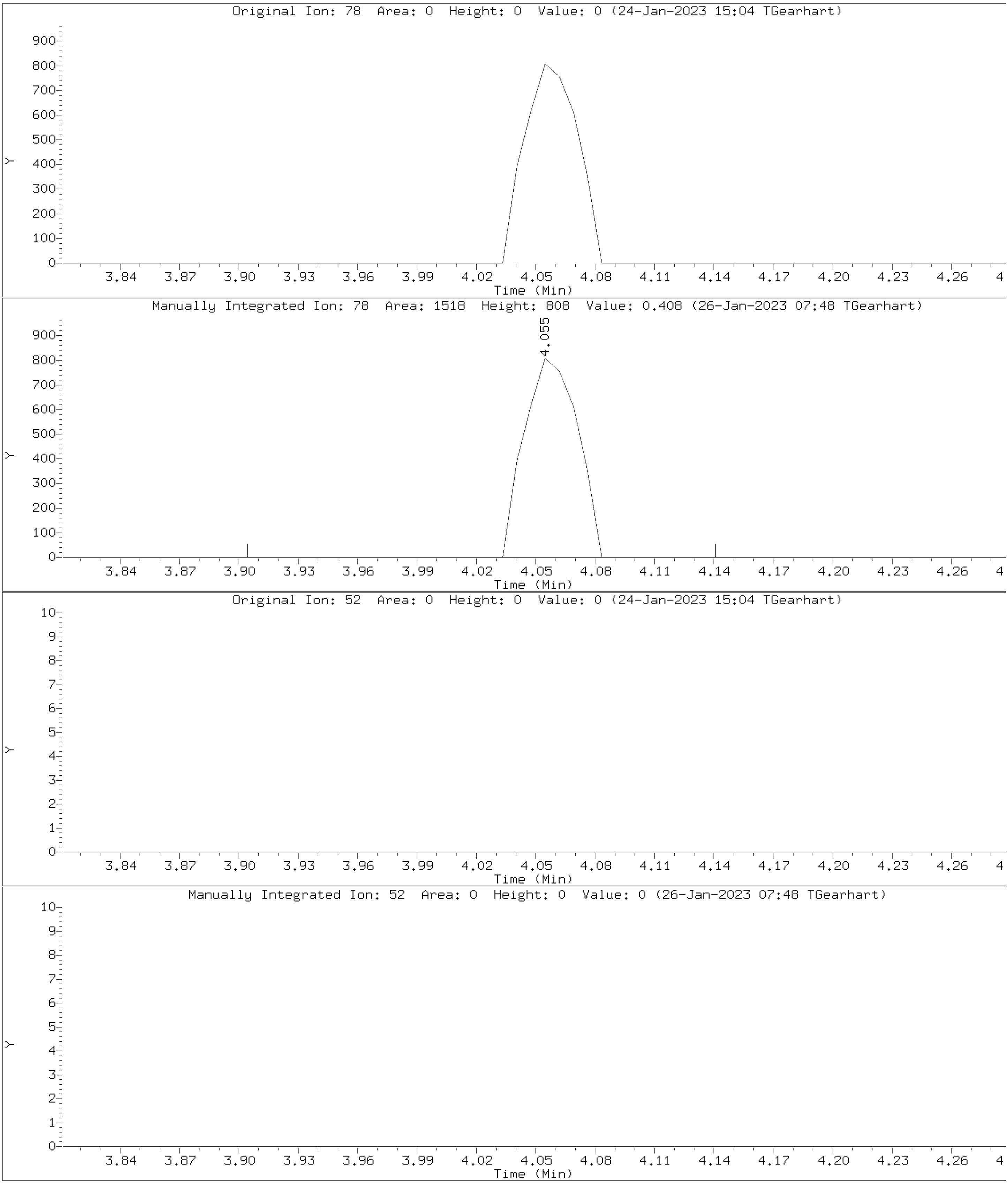
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Benzene   Review Code: NI
CAS Number: 71-43-2



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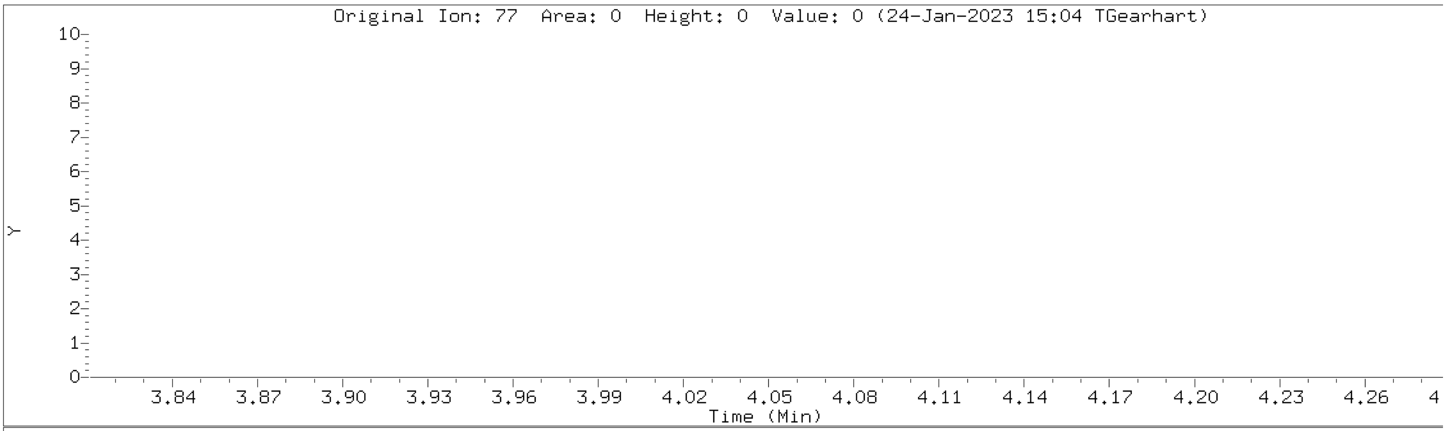
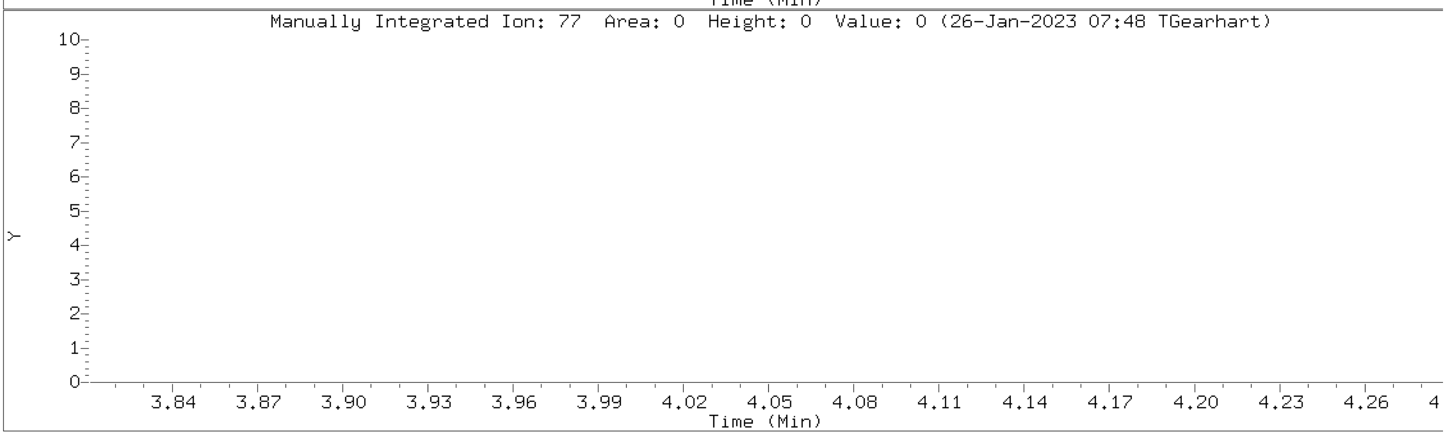
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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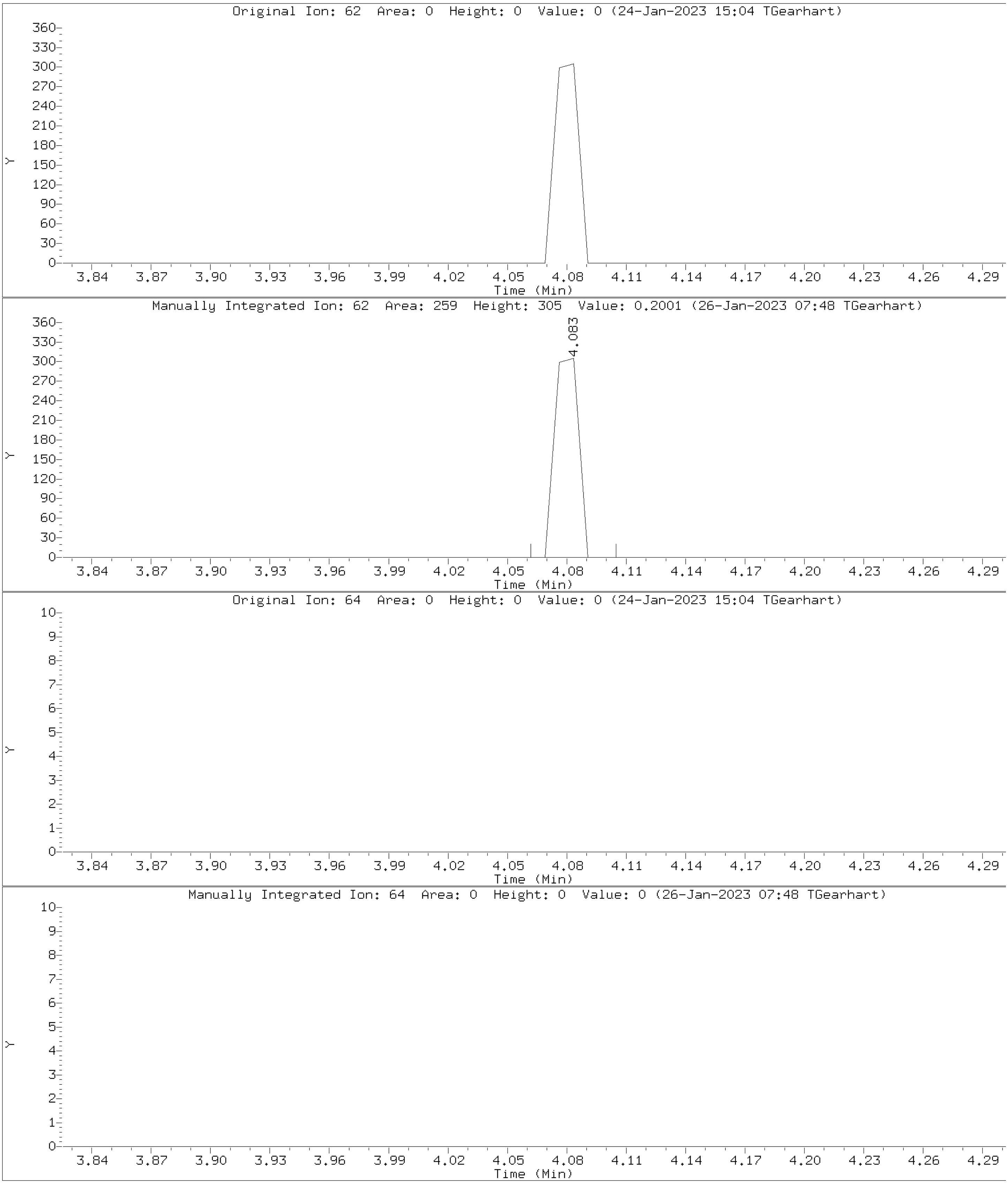
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichloroethane   Review Code: NI
CAS Number: 107-06-2



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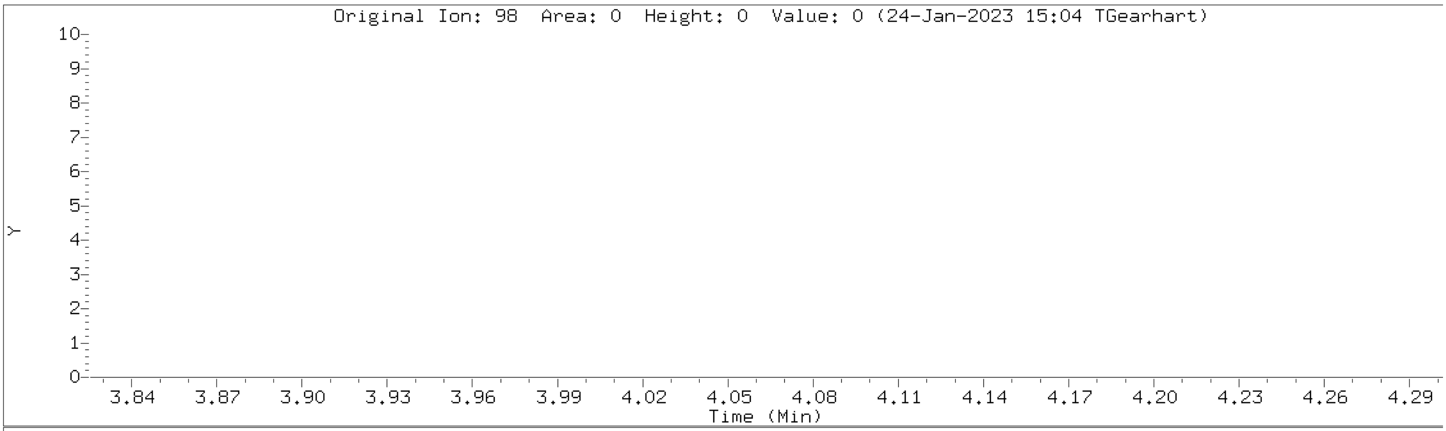
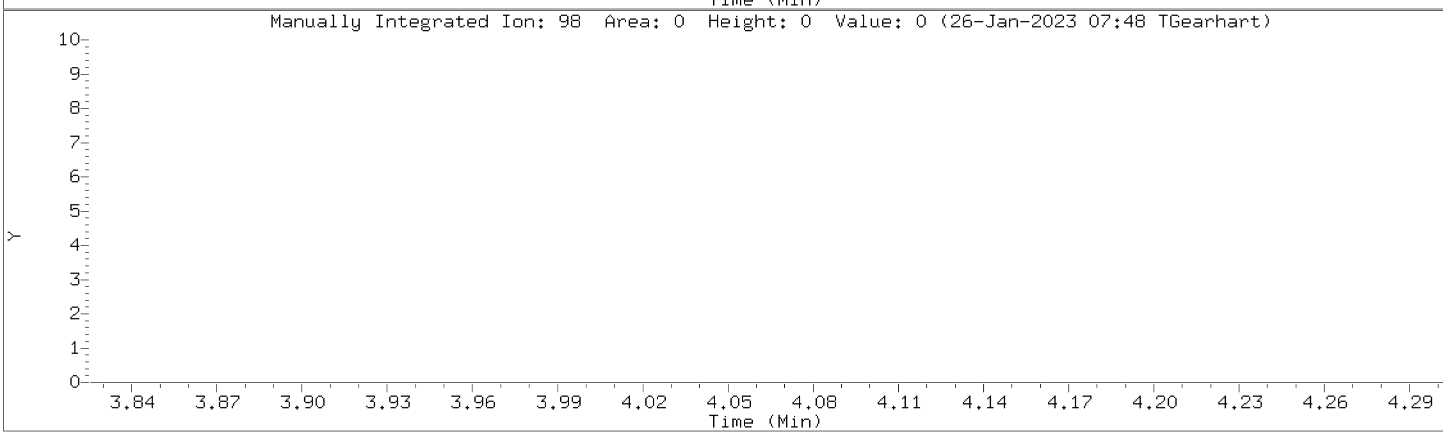
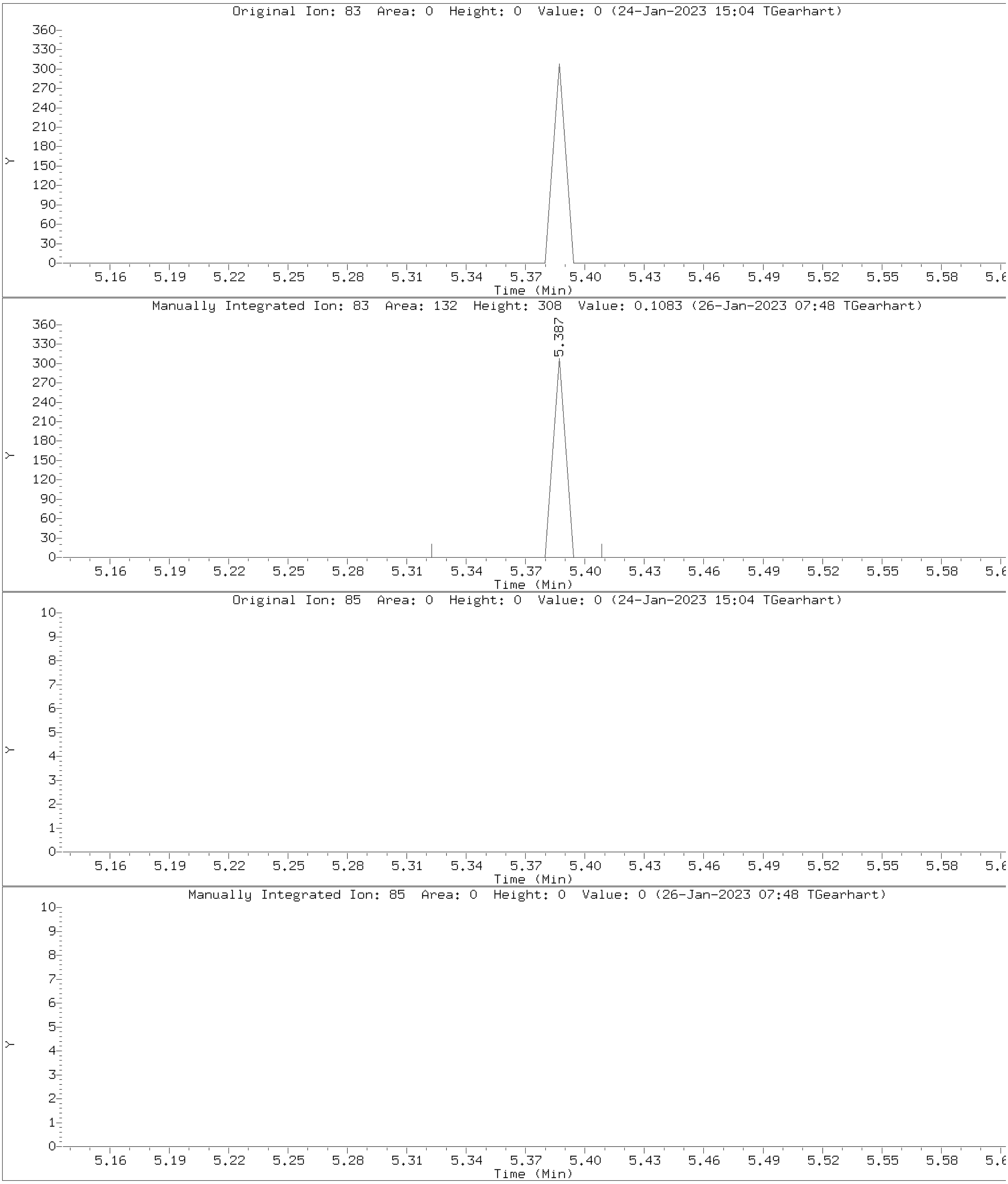
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4



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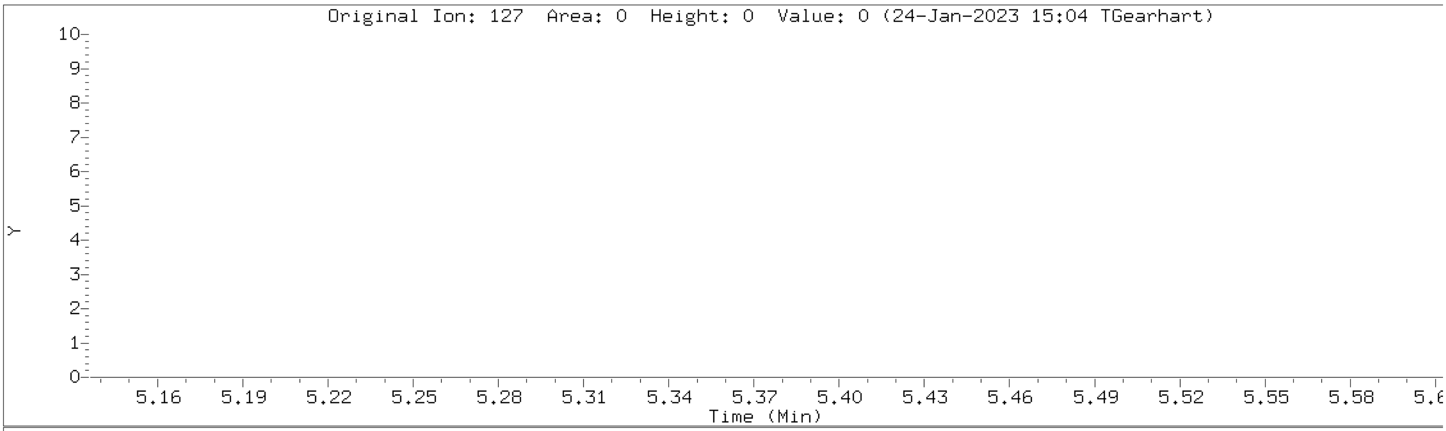
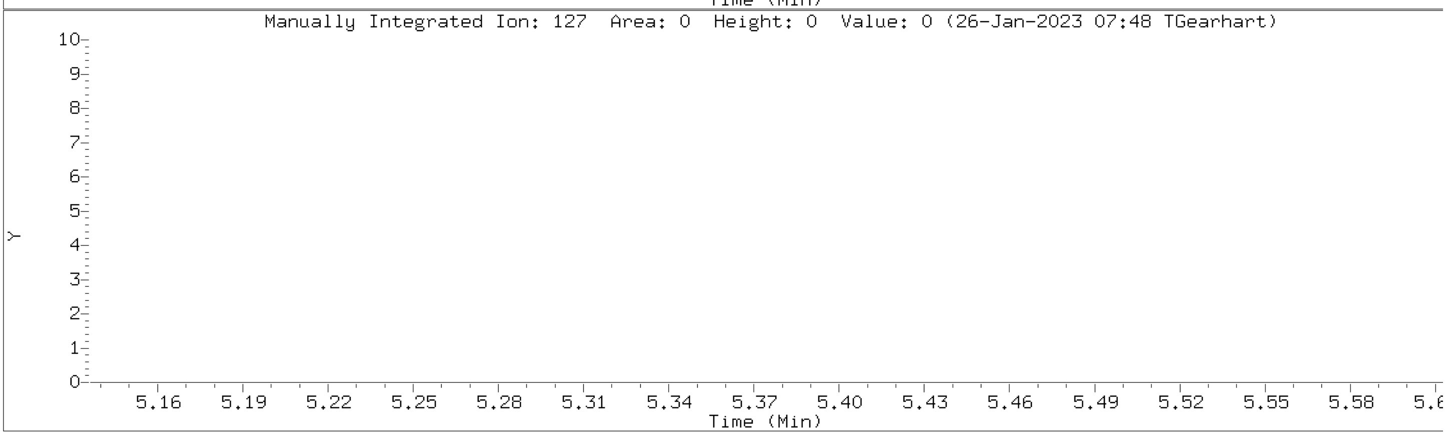
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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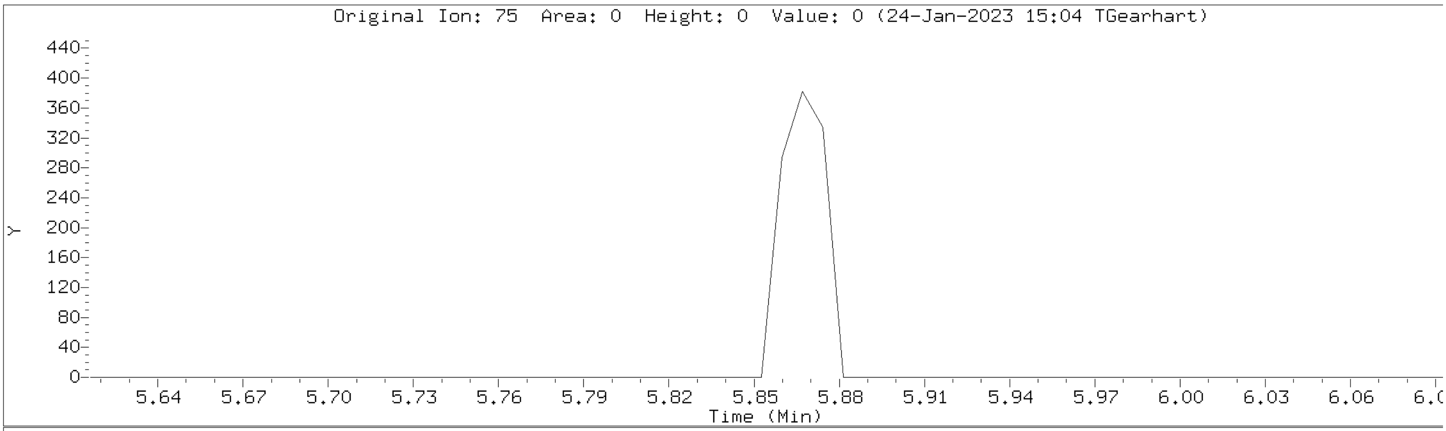
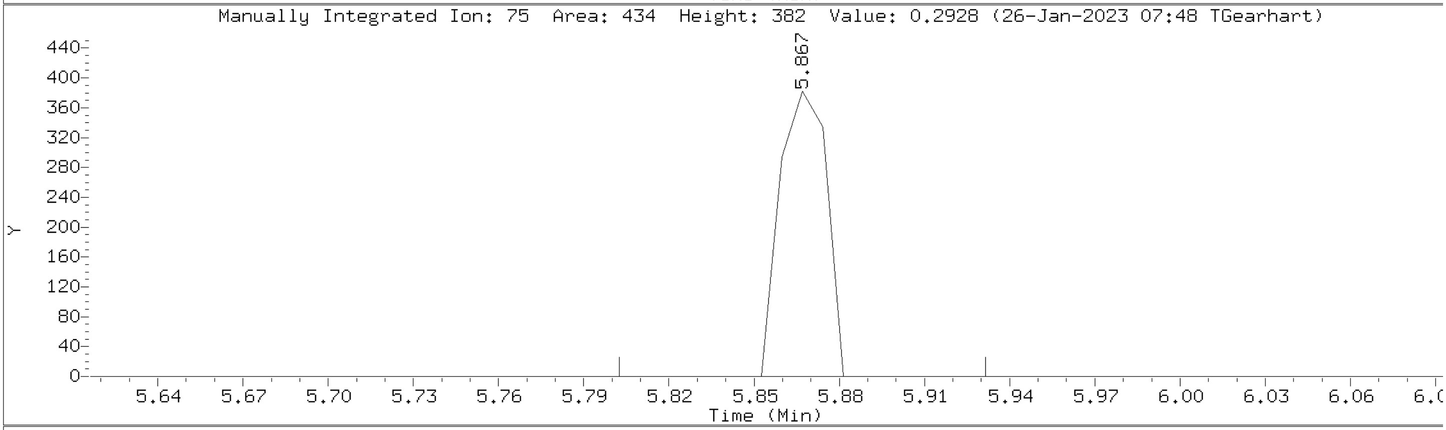
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: cis-1,3-Dichloropropene   Review Code: NI
CAS Number: 10061-01-5

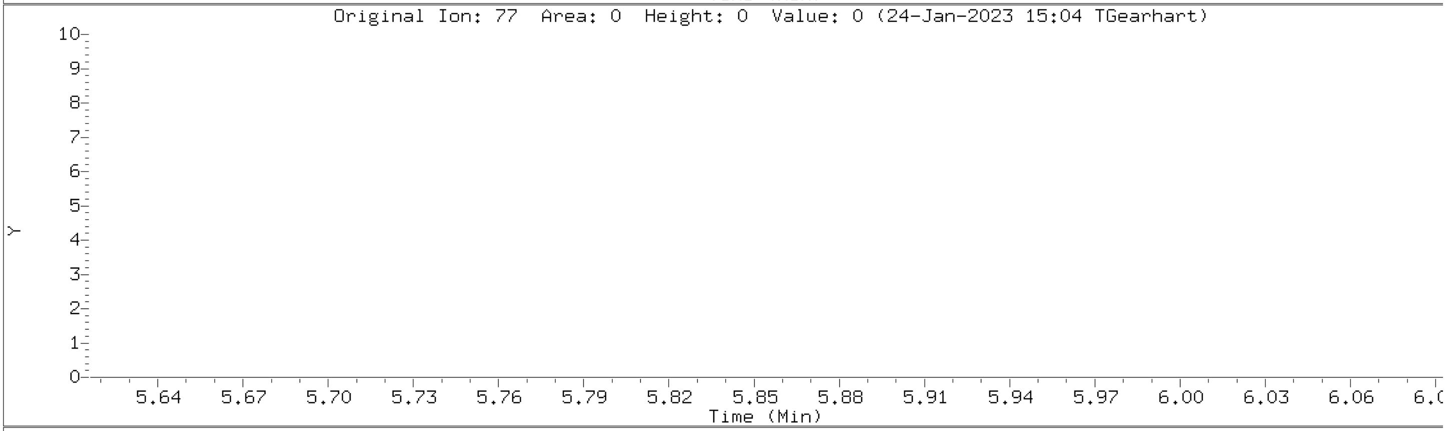
Original Ion: 75 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



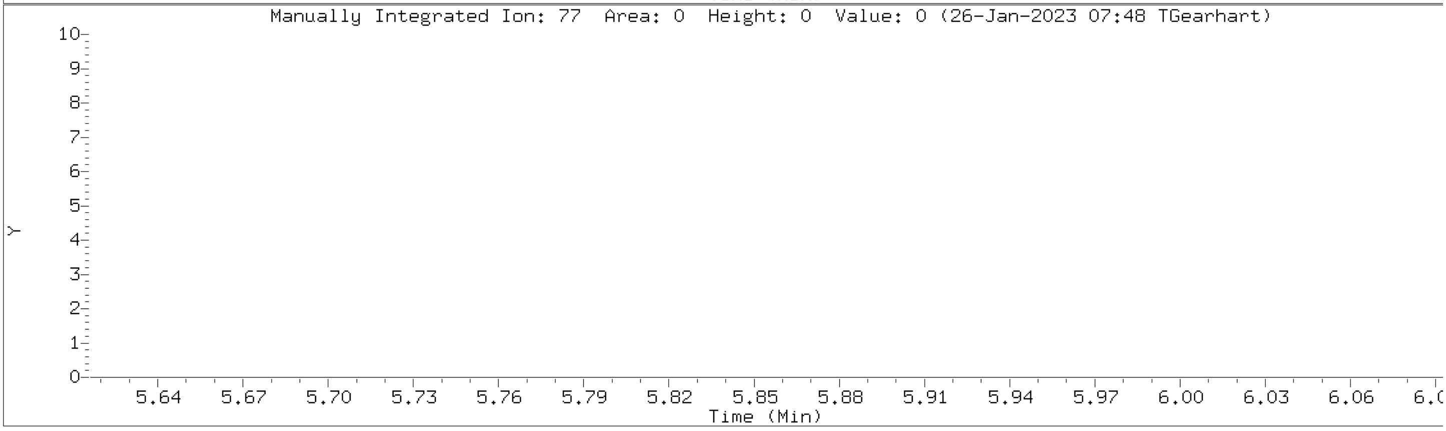
Manually Integrated Ion: 75 Area: 434 Height: 382 Value: 0.2928 (26-Jan-2023 07:48 TGearhart)



Original Ion: 77 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)

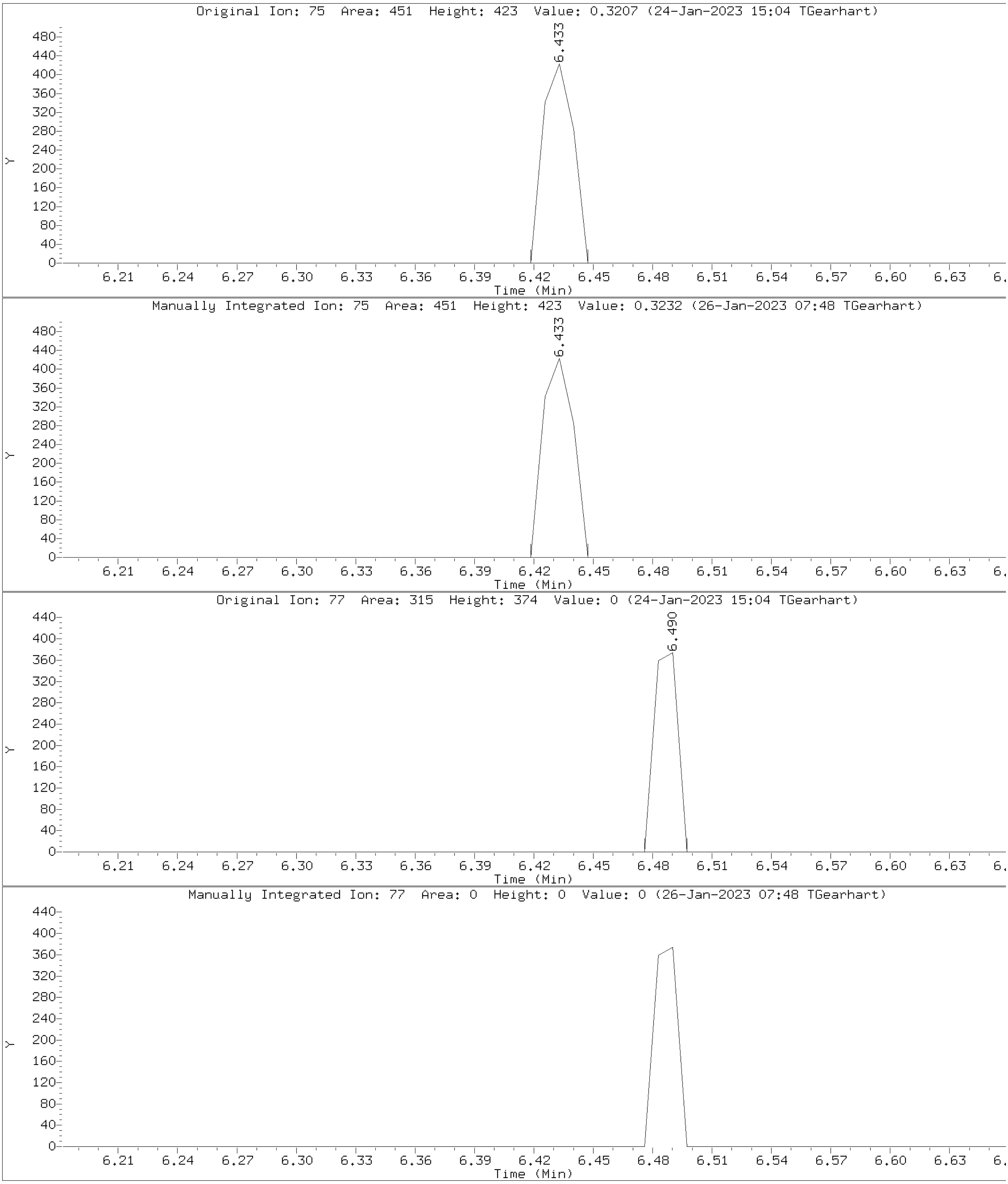


Manually Integrated Ion: 77 Area: 0 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



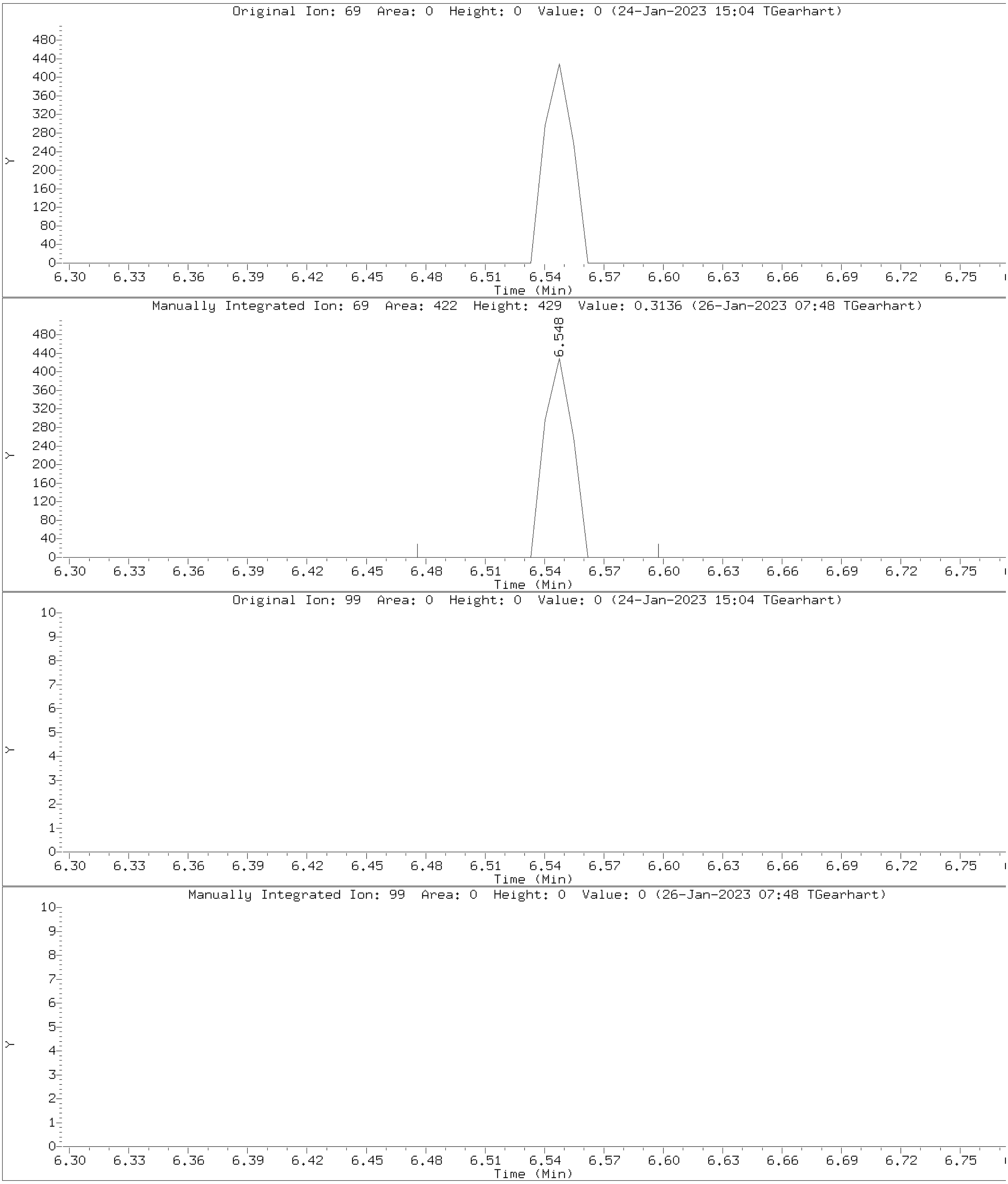
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: trans-1,3-Dichloropropene   Review Code: WP
CAS Number: 10061-02-6

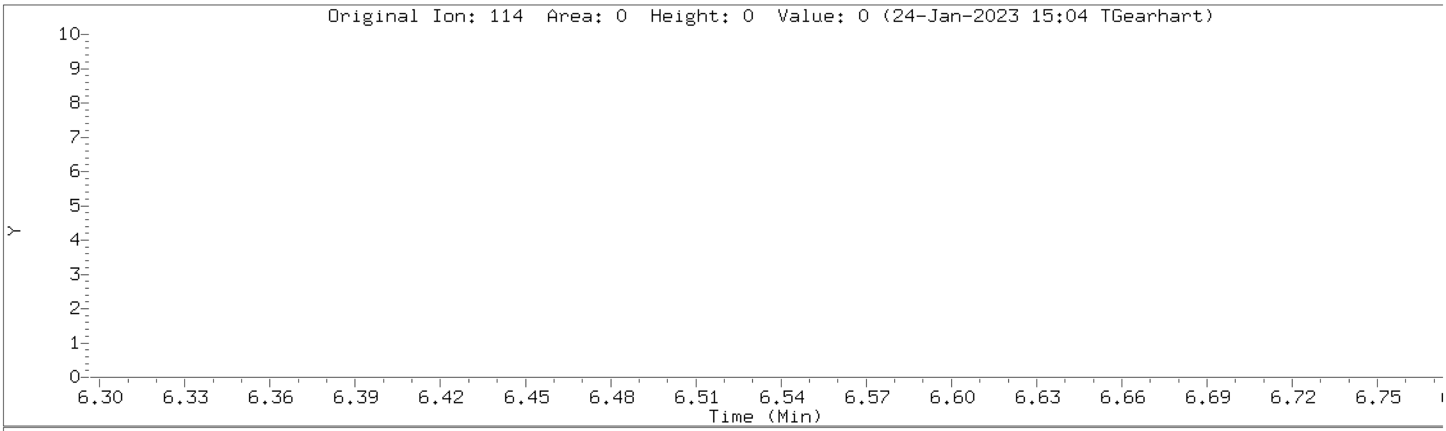


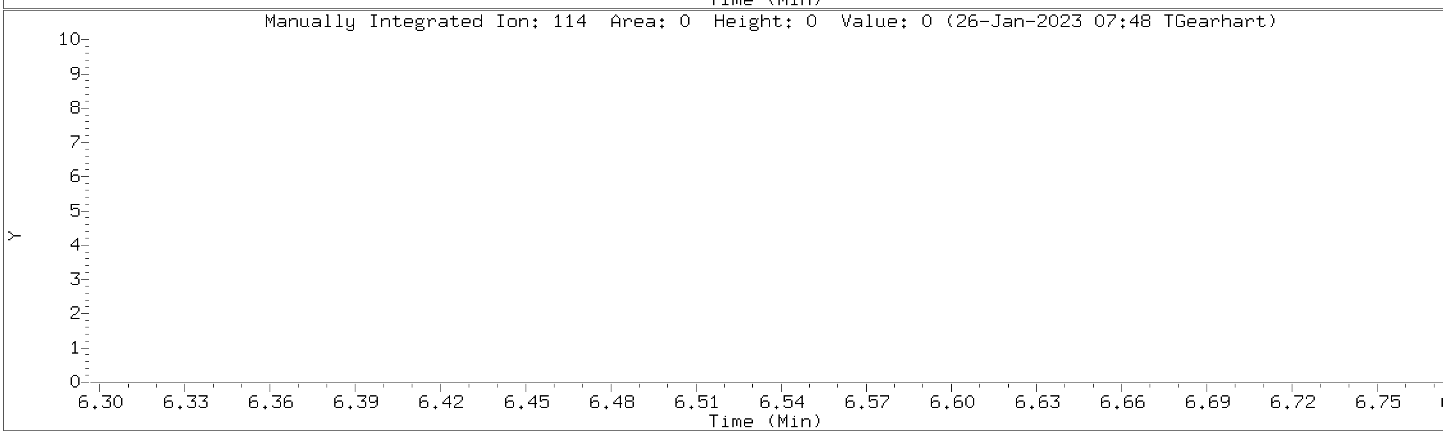
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



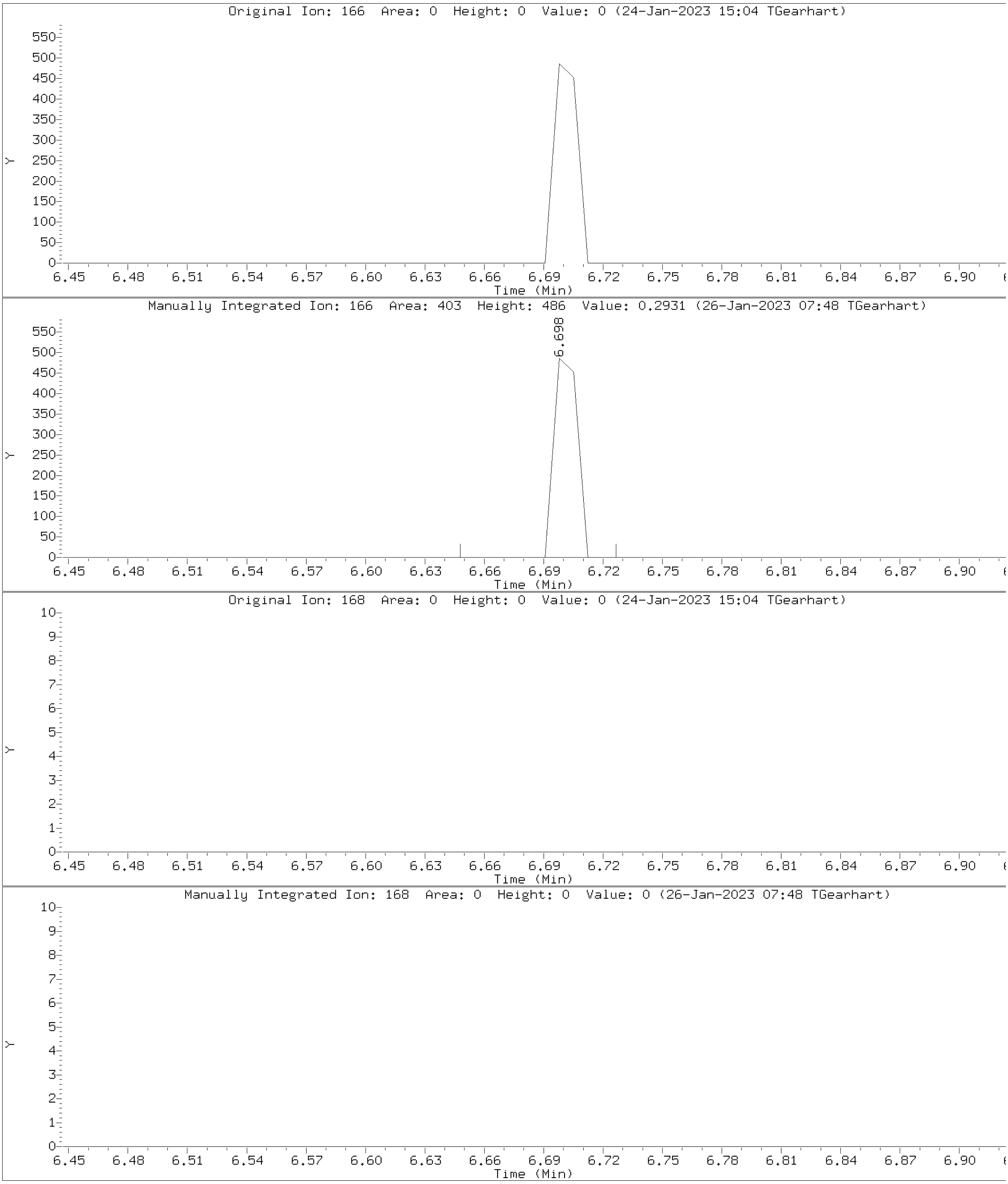
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1



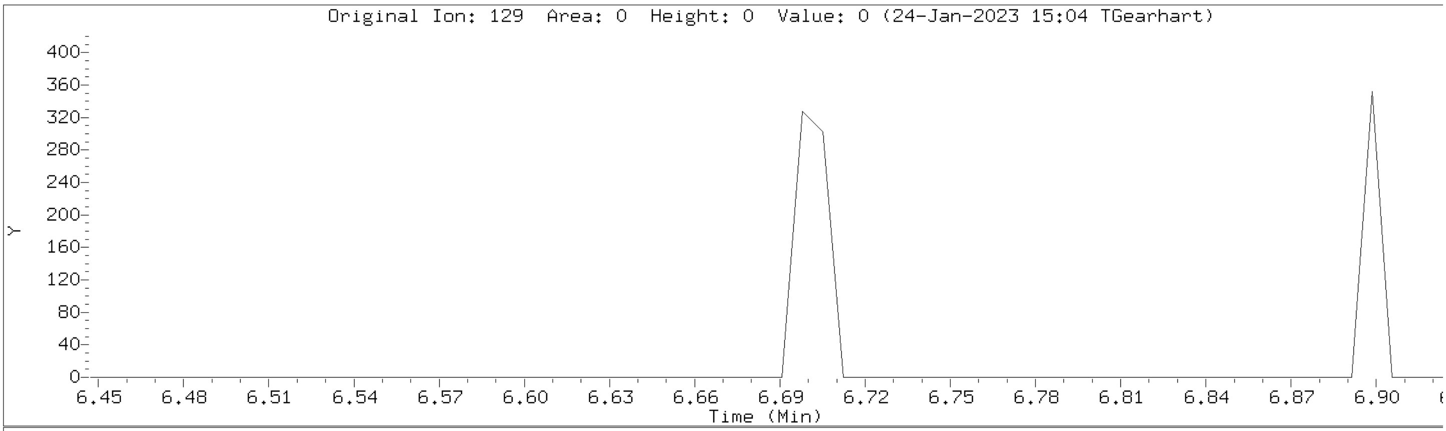


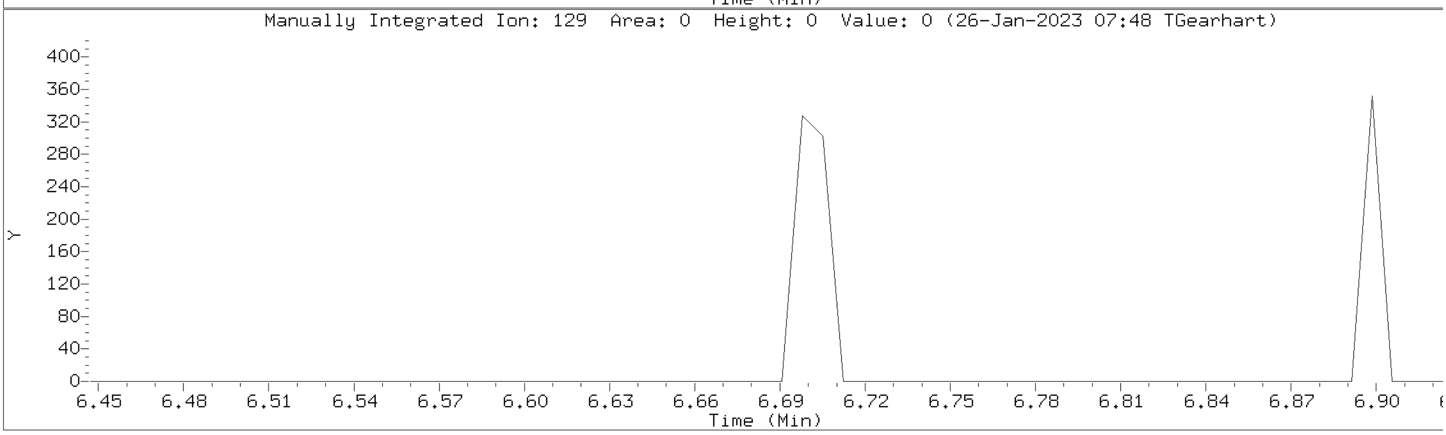
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Tetrachloroethene   Review Code: NI
CAS Number: 127-18-4



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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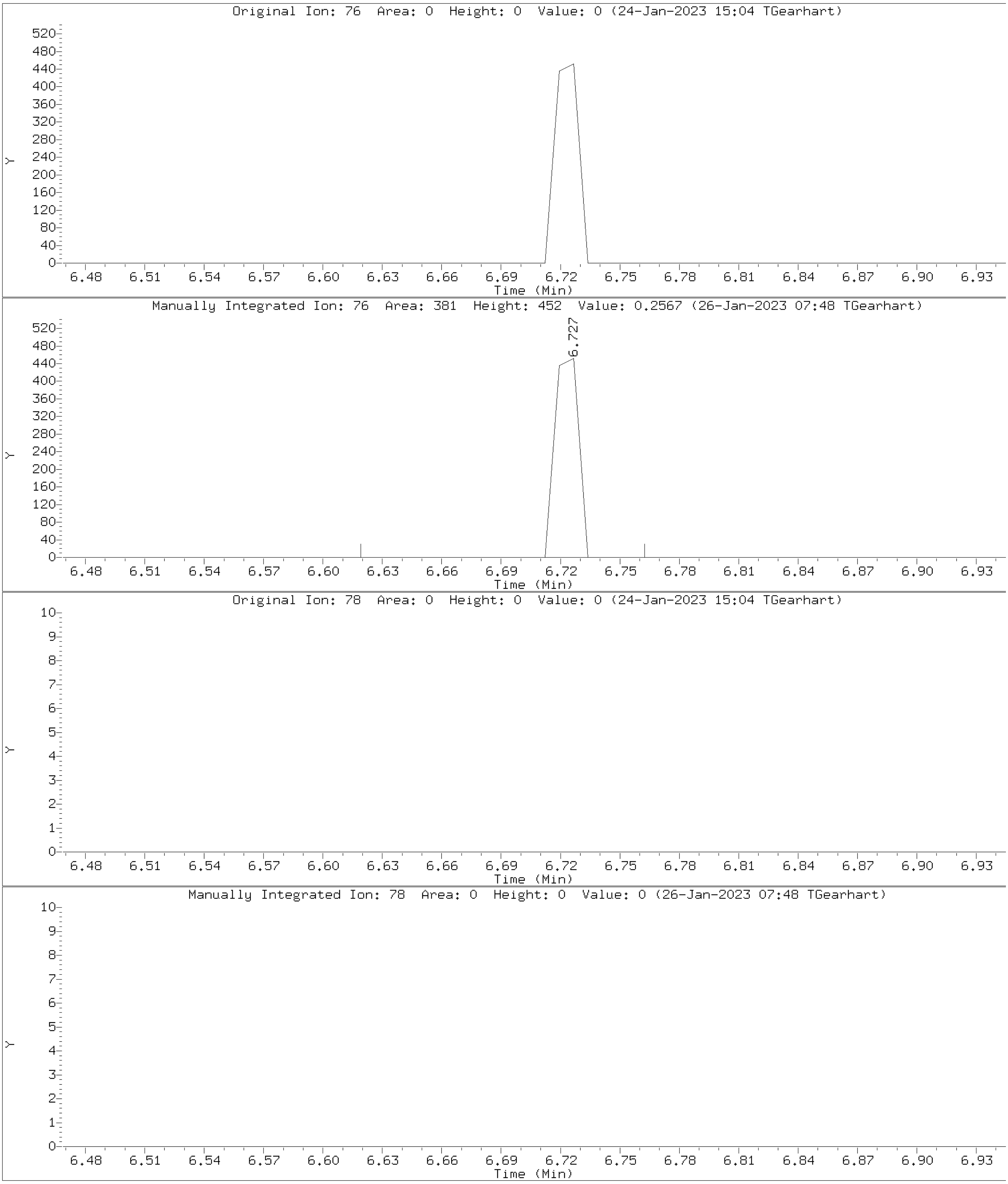
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,3-Dichloropropane   Review Code: NI
CAS Number: 142-28-9



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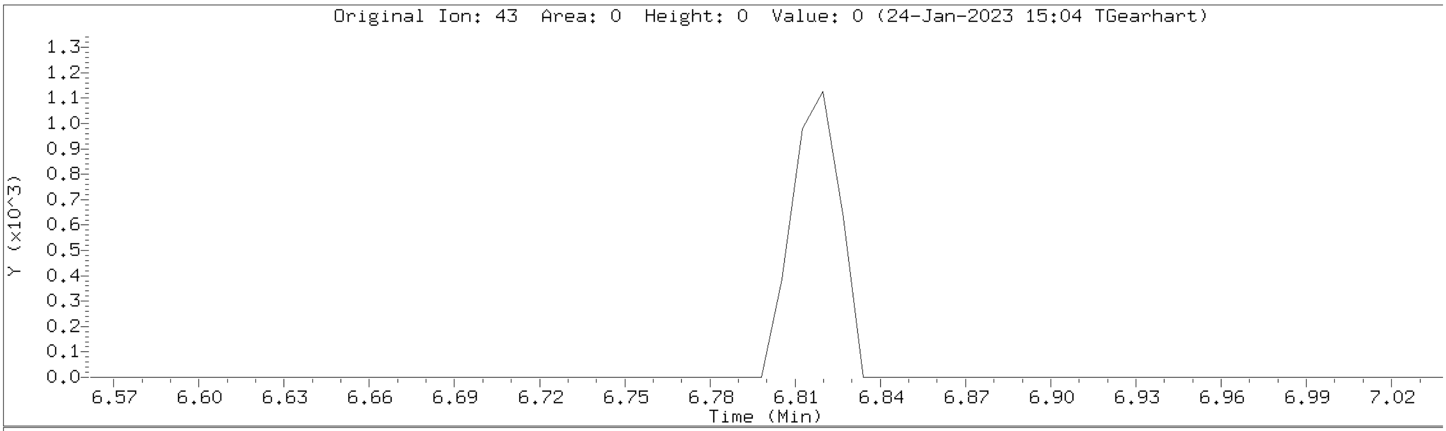
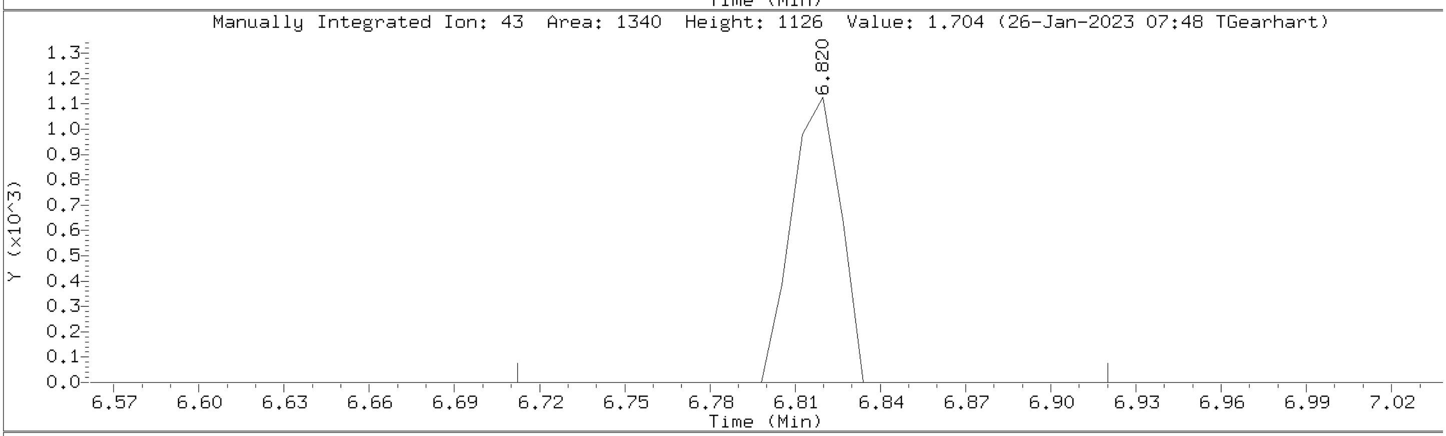
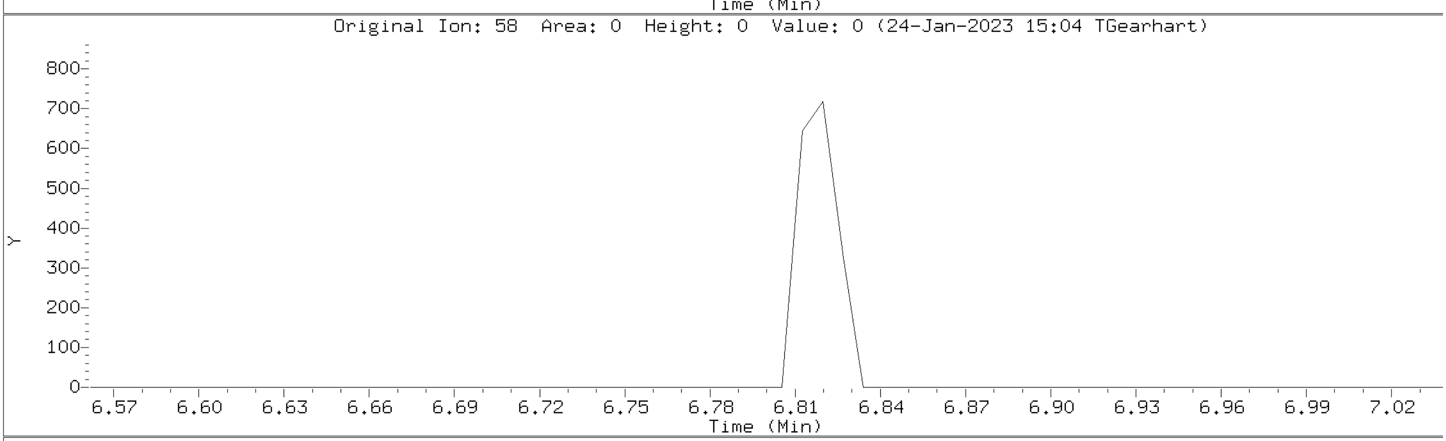
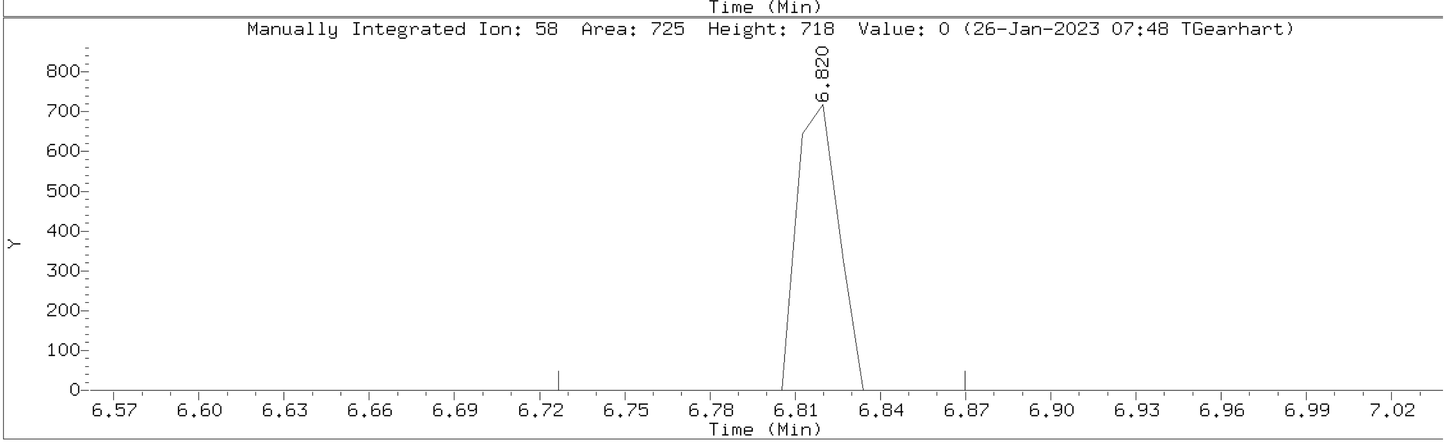
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 2-Hexanone   Review Code: NI
CAS Number: 591-78-6









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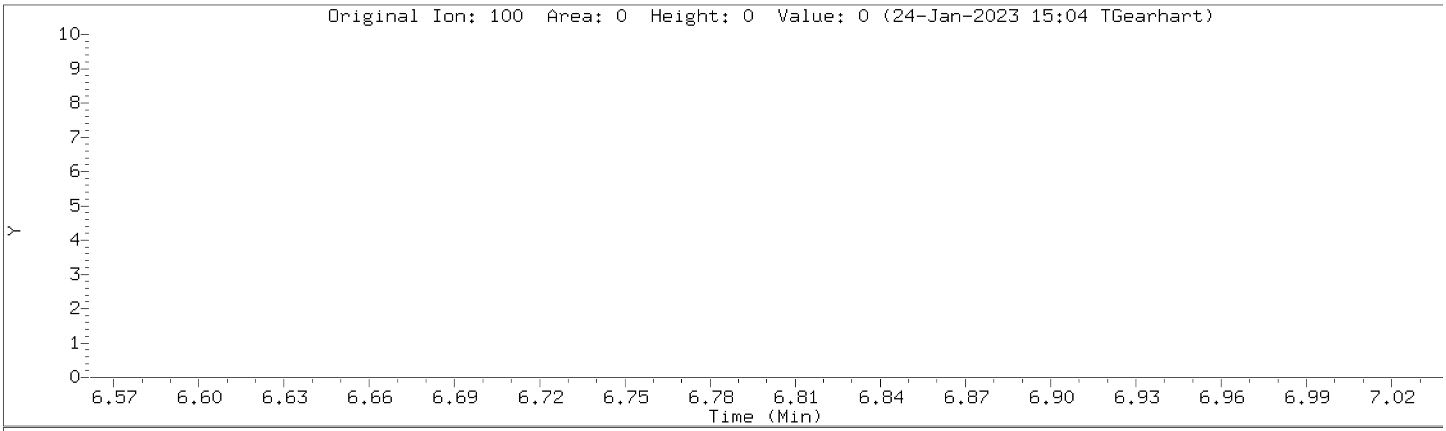
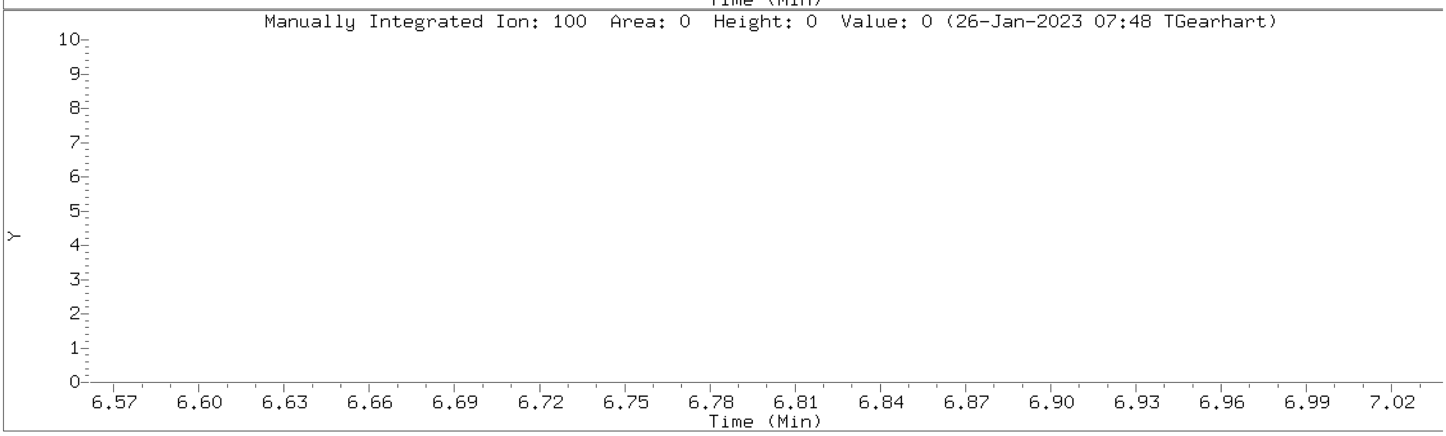
Lab Sample ID: 8260-CAL1





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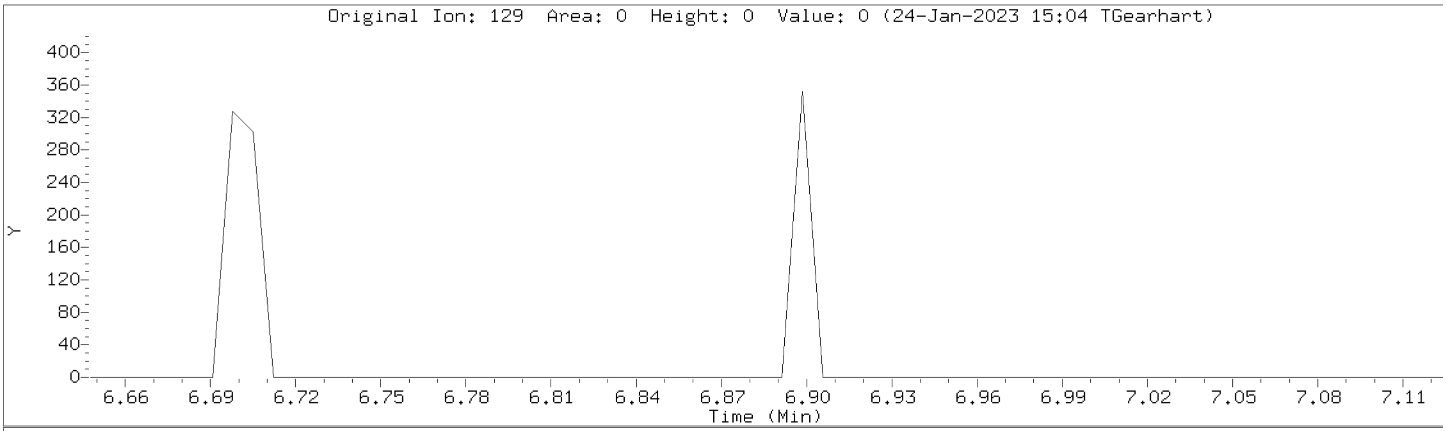
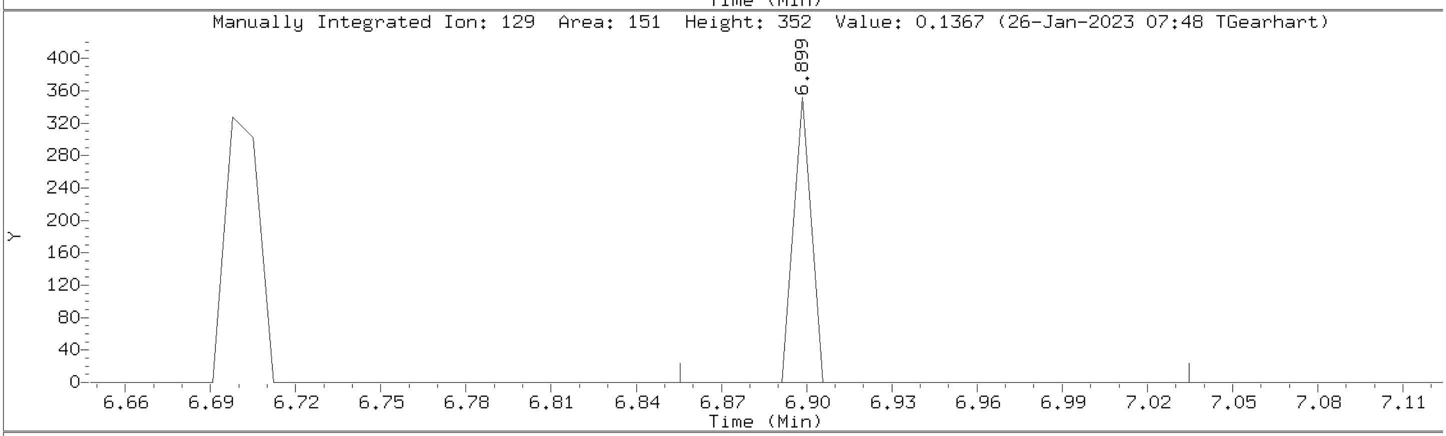
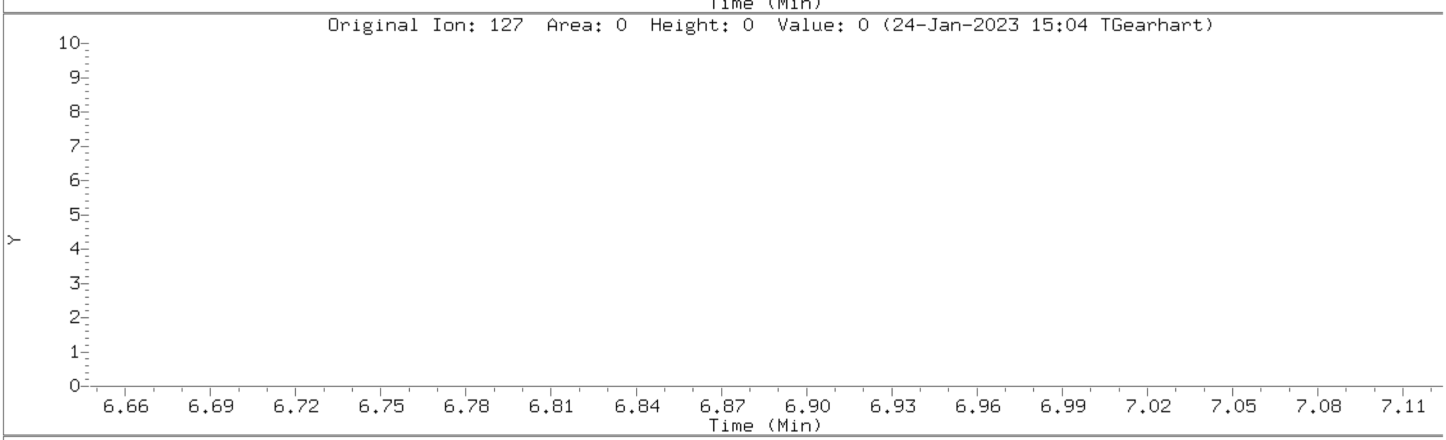
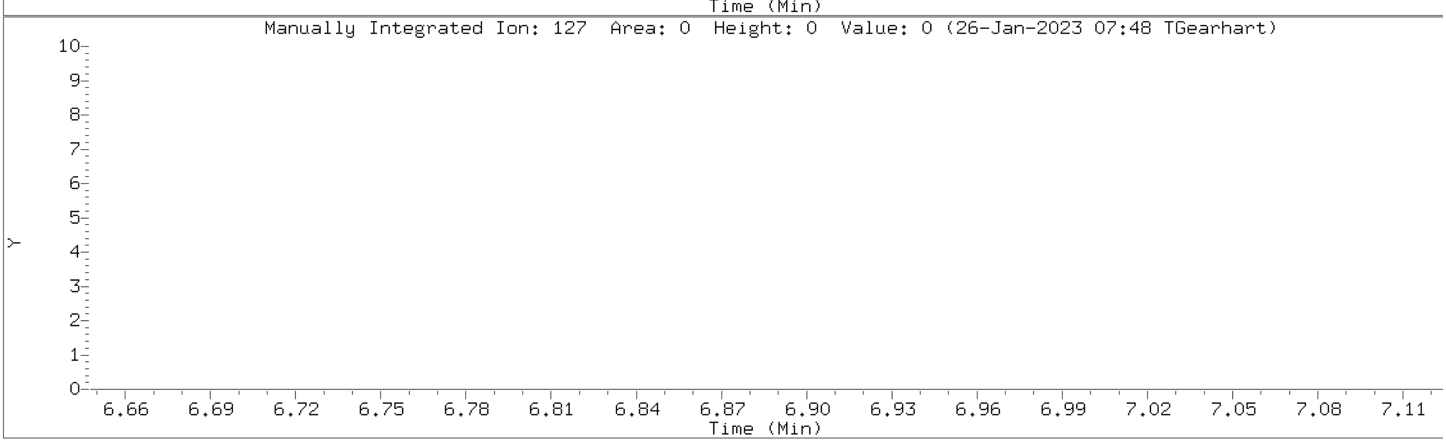
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Dibromochloromethane   Review Code: NI
CAS Number: 124-48-1









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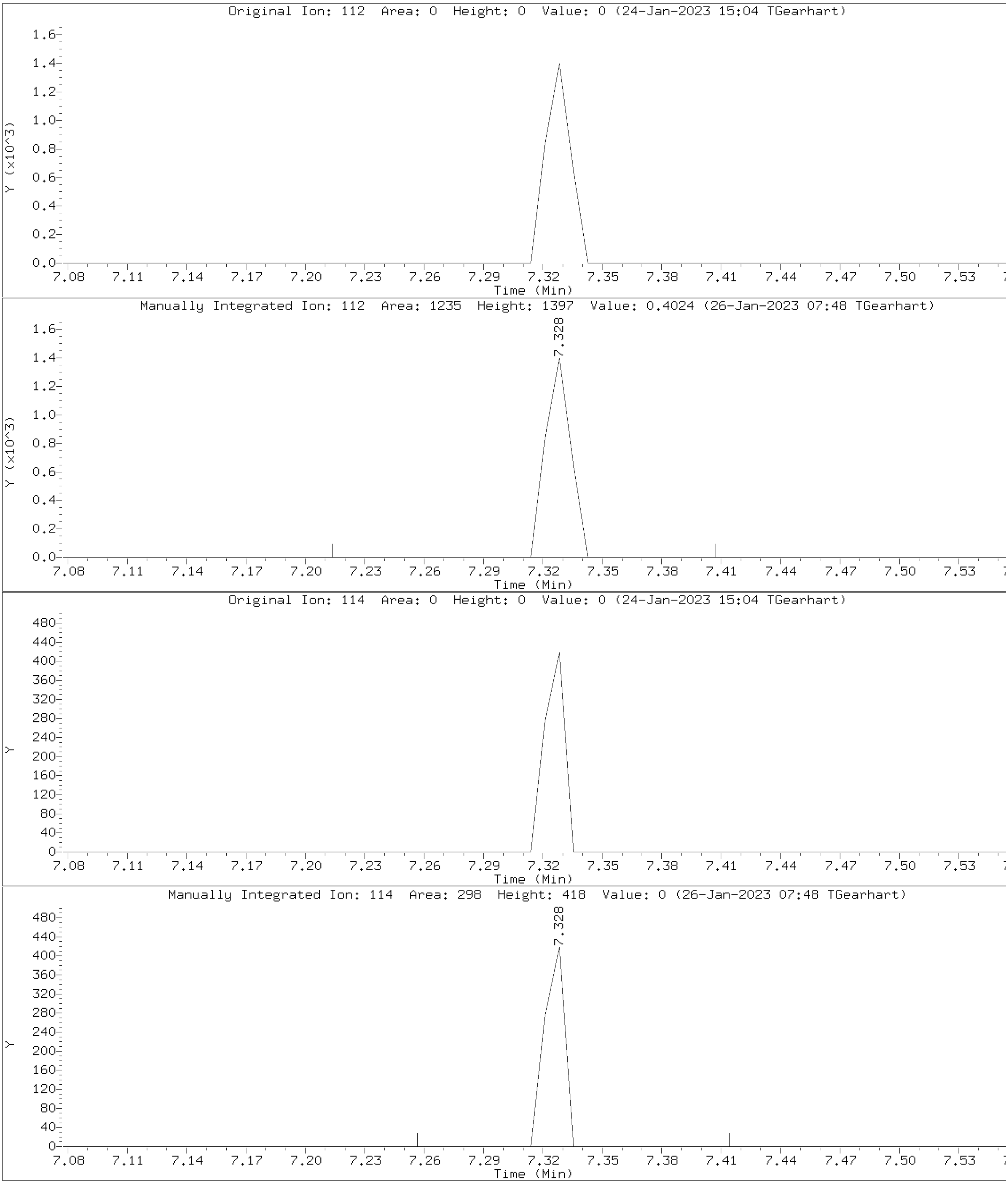
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Chlorobenzene   Review Code: NI
CAS Number: 108-90-7



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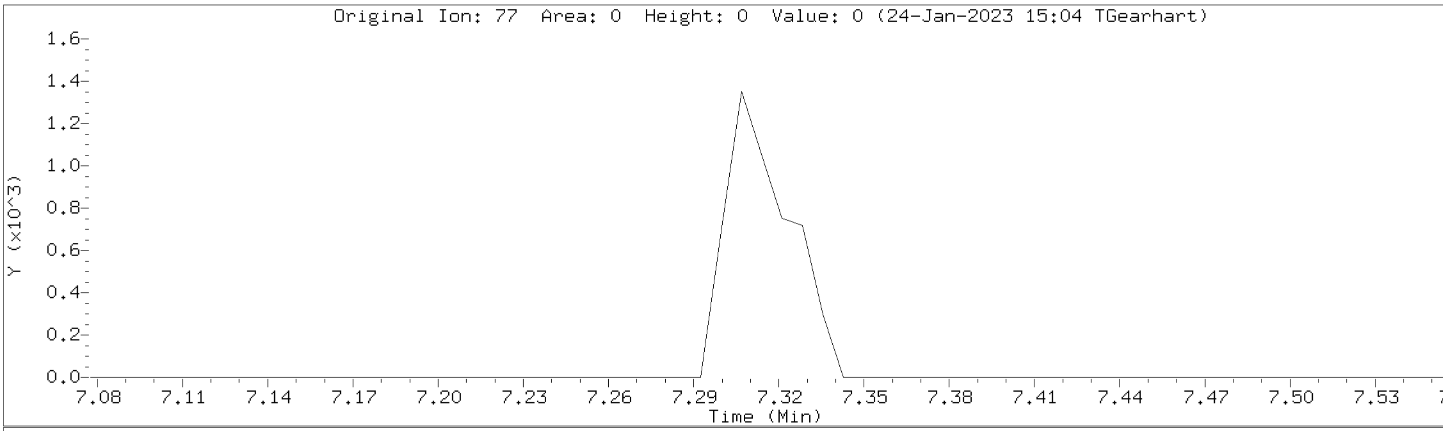
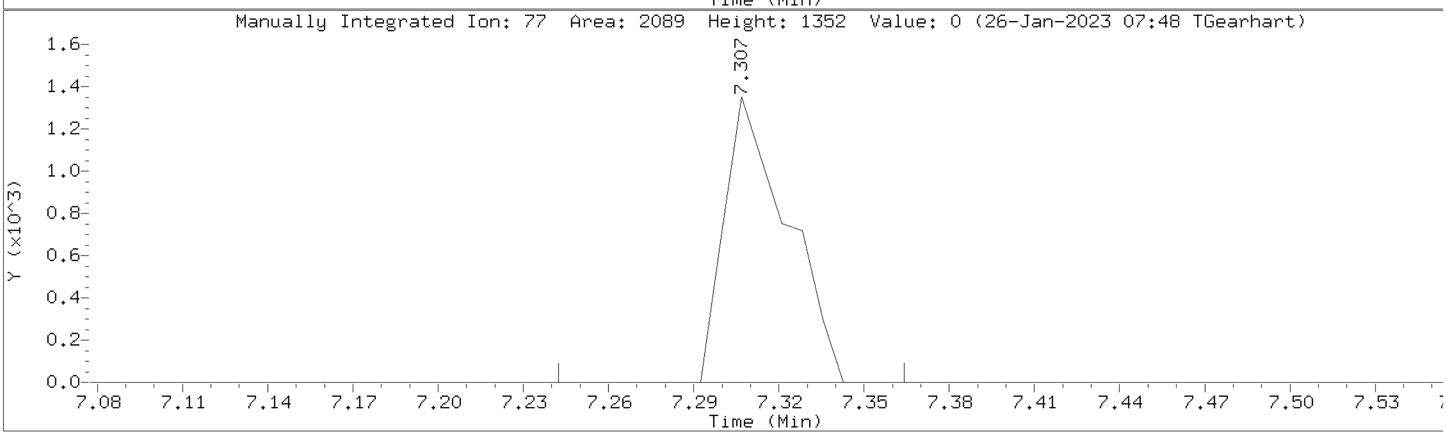
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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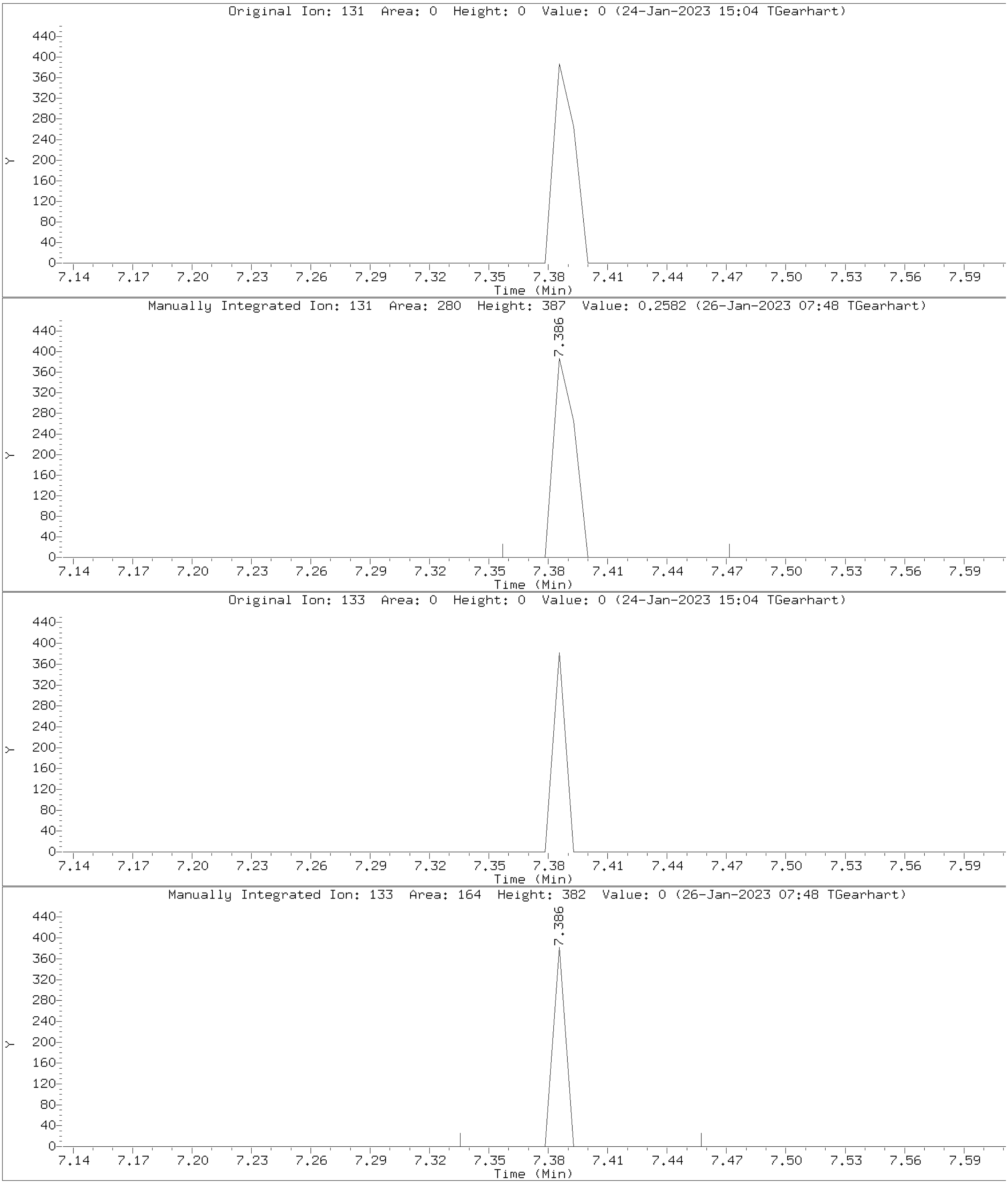
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,1,2-Tetrachloroethane   Review Code: NI
CAS Number: 630-20-6



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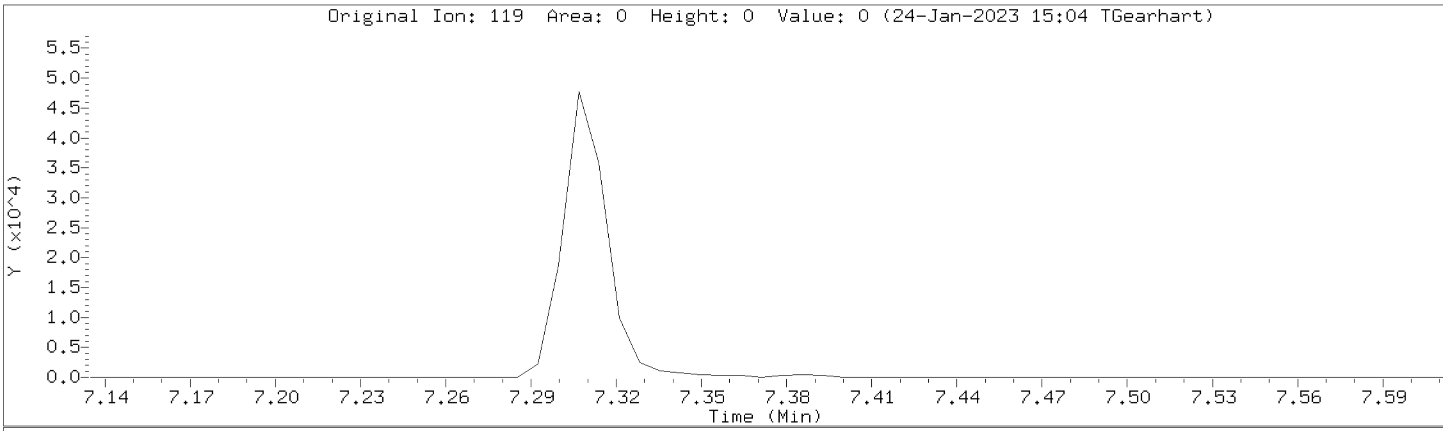
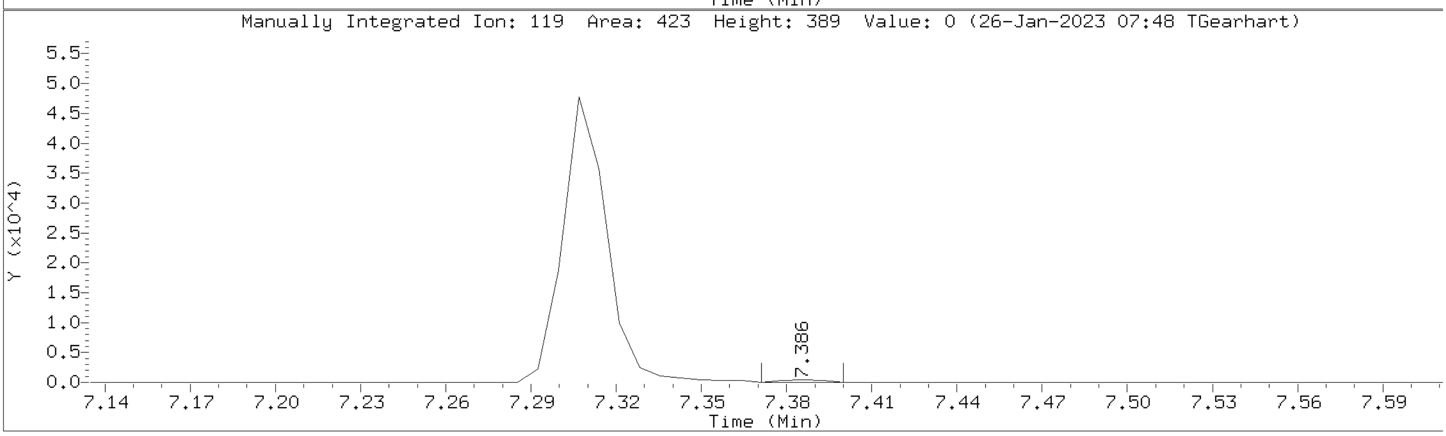
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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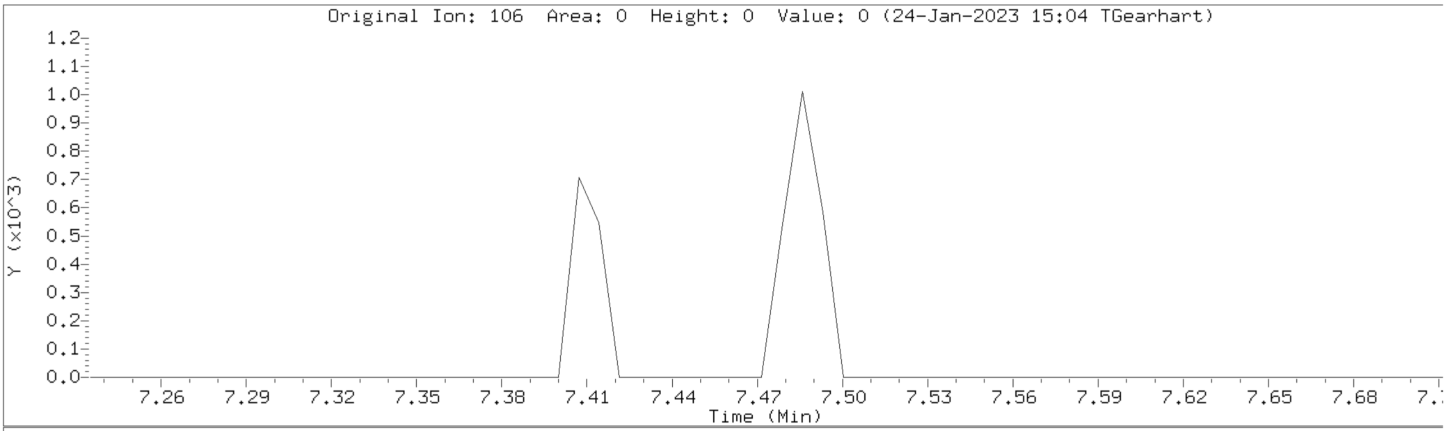
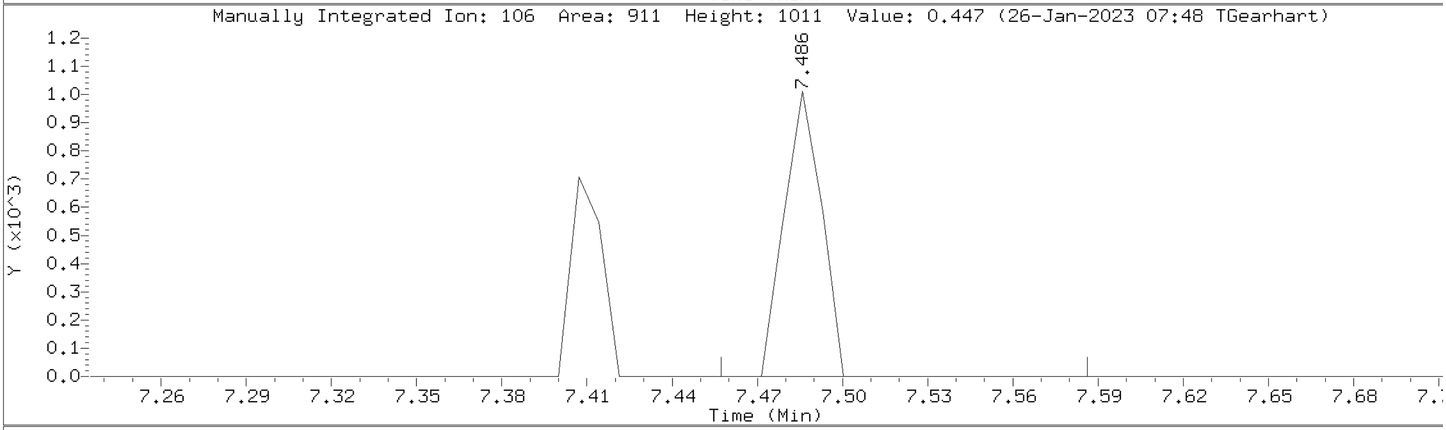
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: m&p-Xylene   Review Code: NI
CAS Number: 7816-60-0

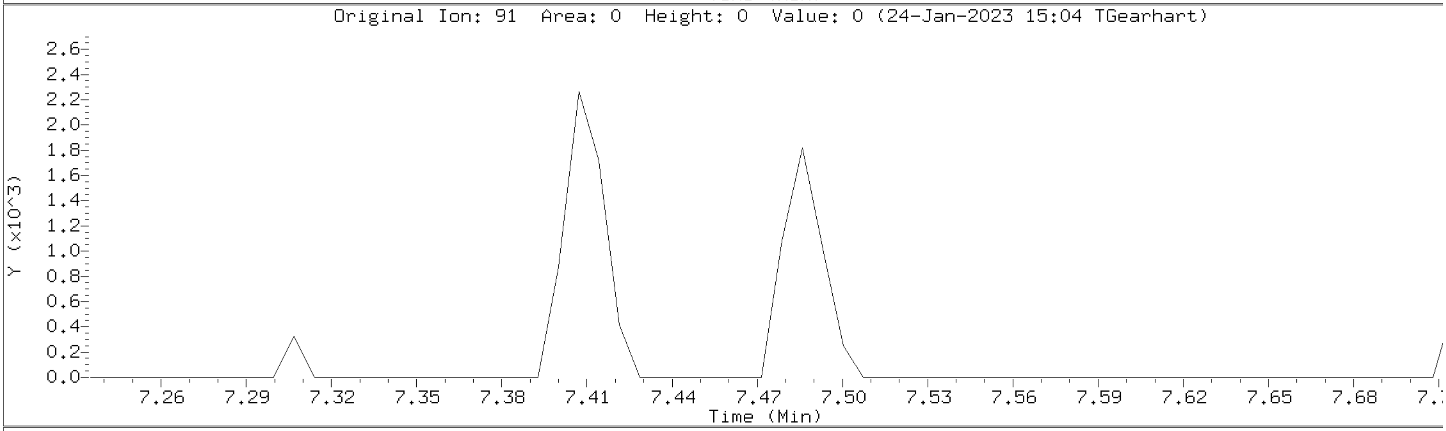
Original Ion: 106 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



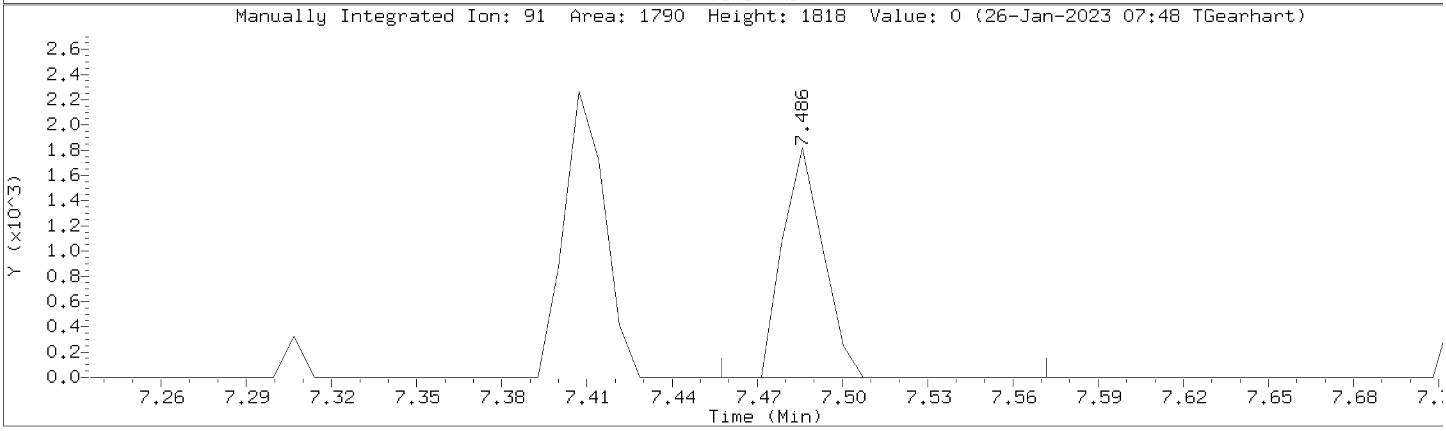
Manually Integrated Ion: 106 Area: 911 Height: 1011 Value: 0.447 (26-Jan-2023 07:48 TGearhart)



Original Ion: 91 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 91 Area: 1790 Height: 1818 Value: 0 (26-Jan-2023 07:48 TGearhart)



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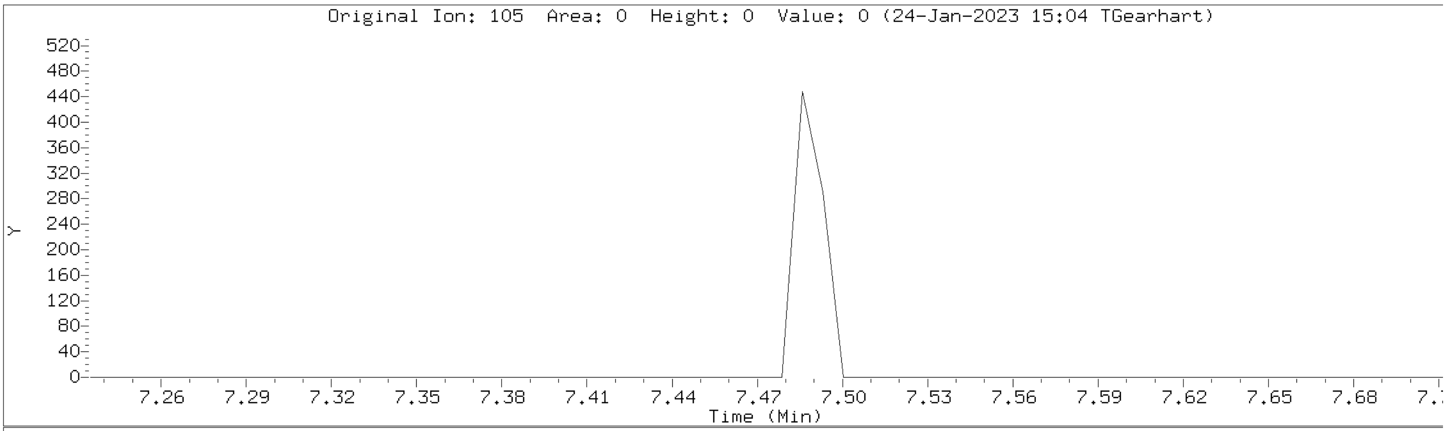
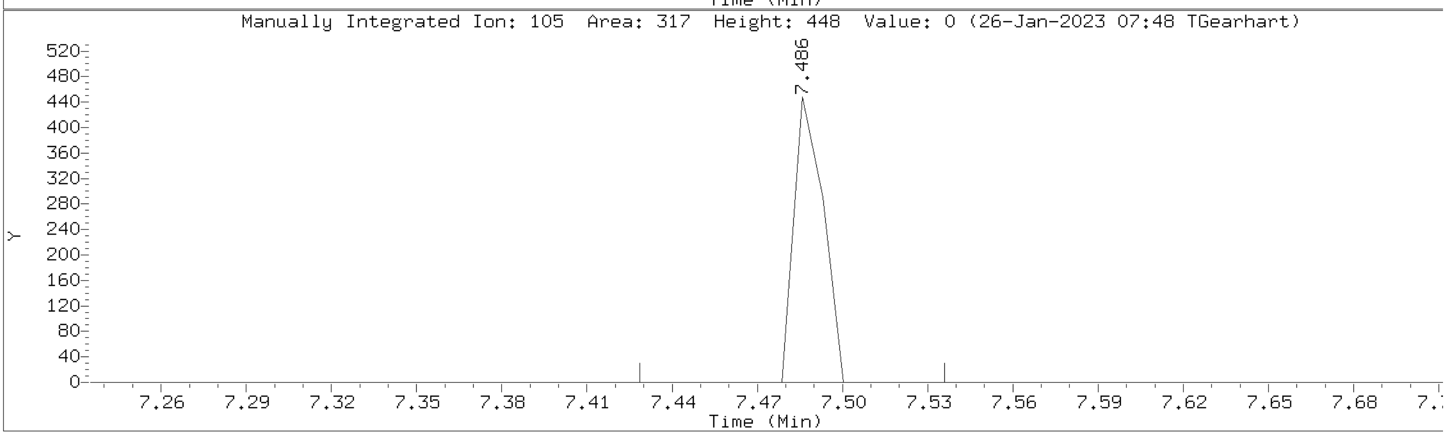
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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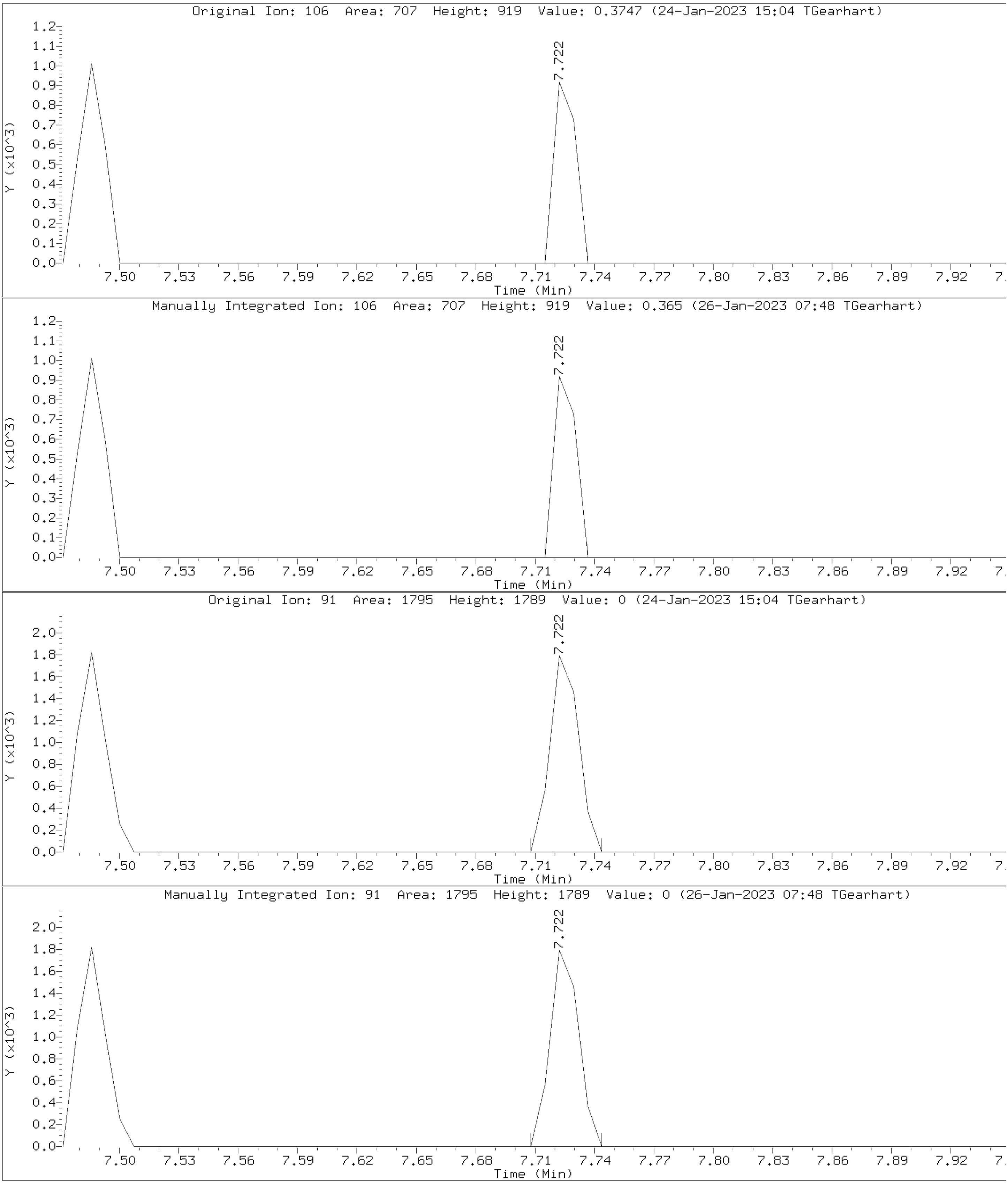
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: o-Xylene   Review Code: WP
CAS Number: 95-47-6



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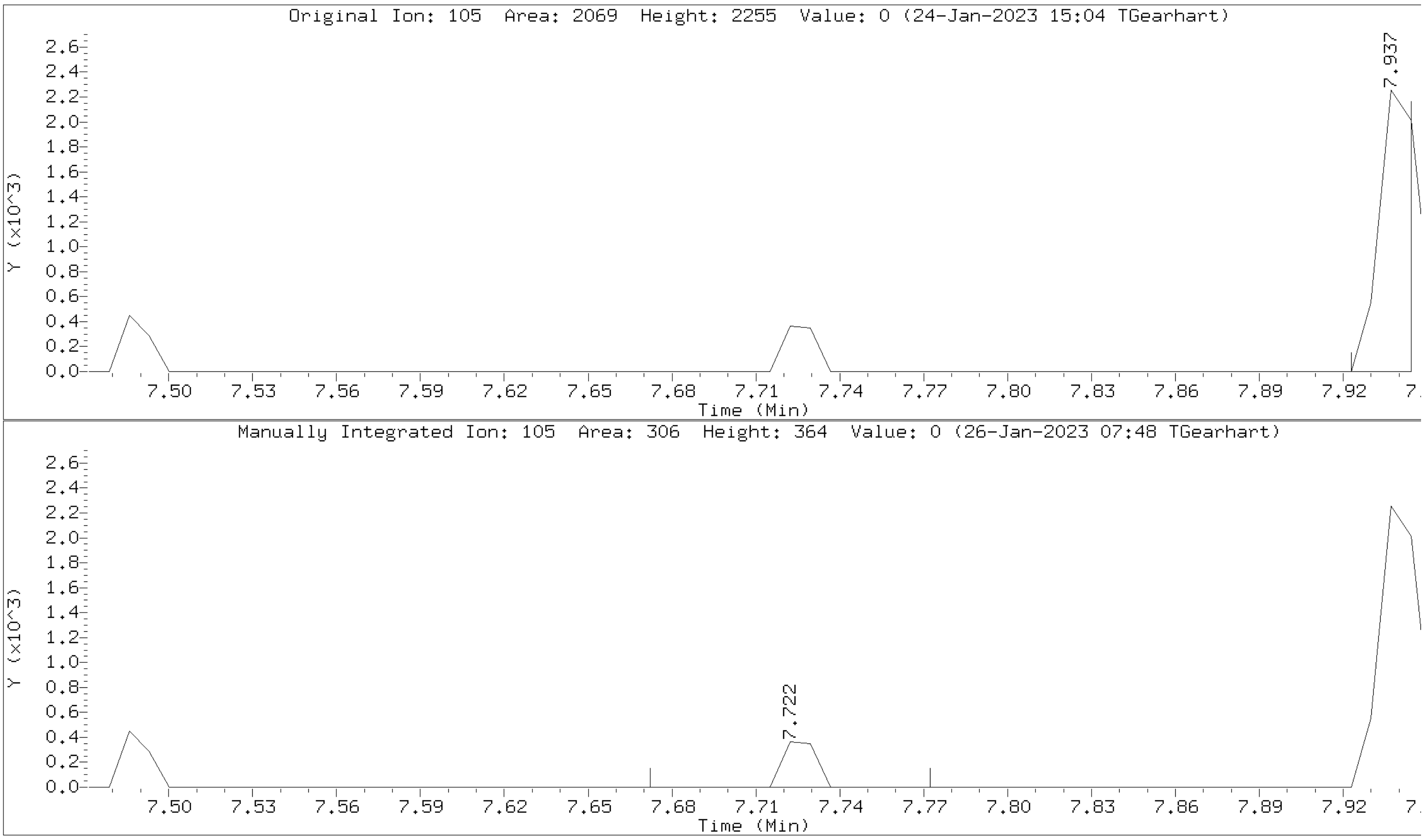
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1



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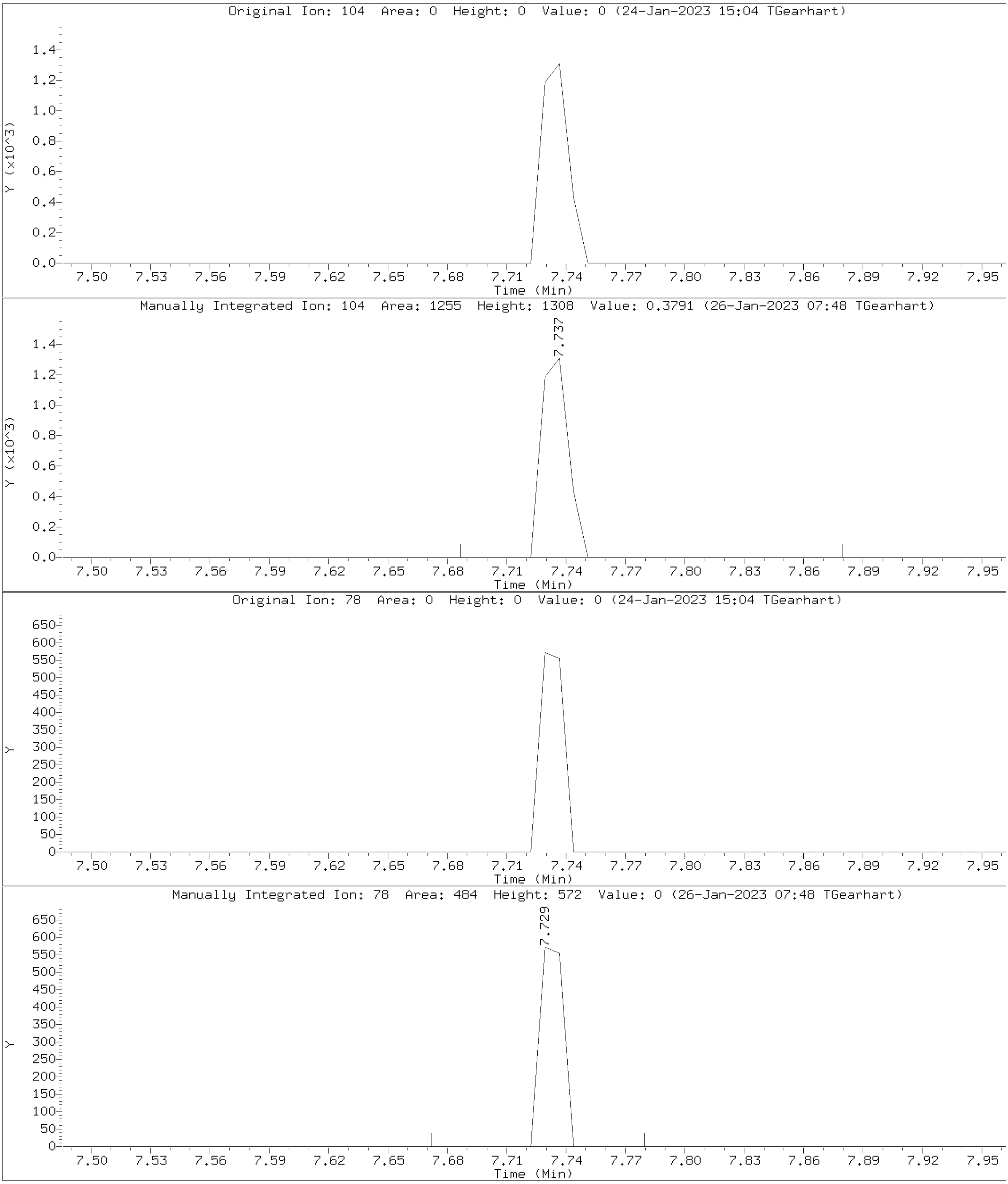
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Styrene   Review Code: NI
CAS Number: 100-42-5



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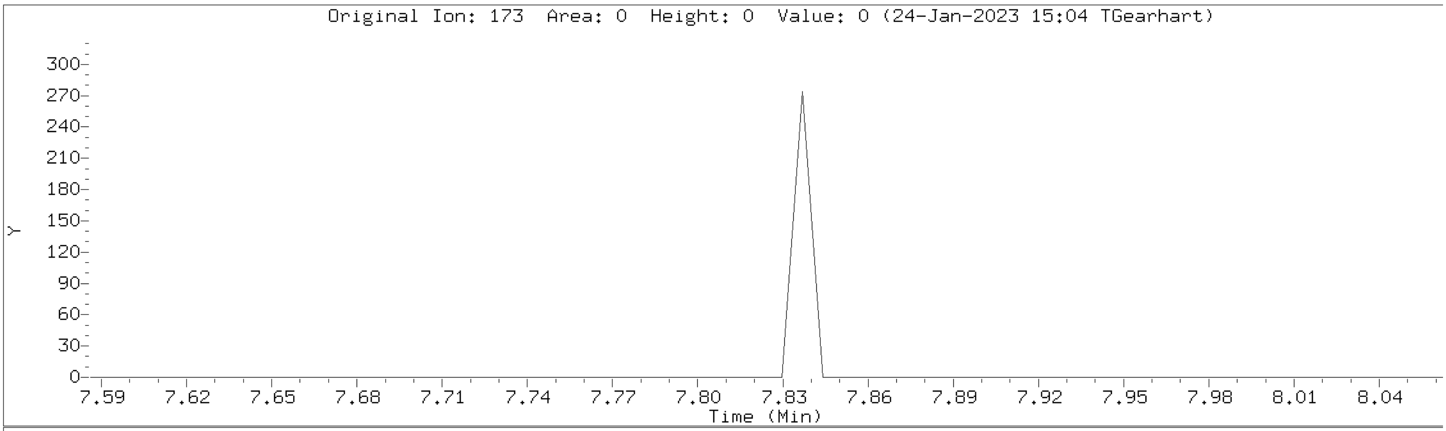
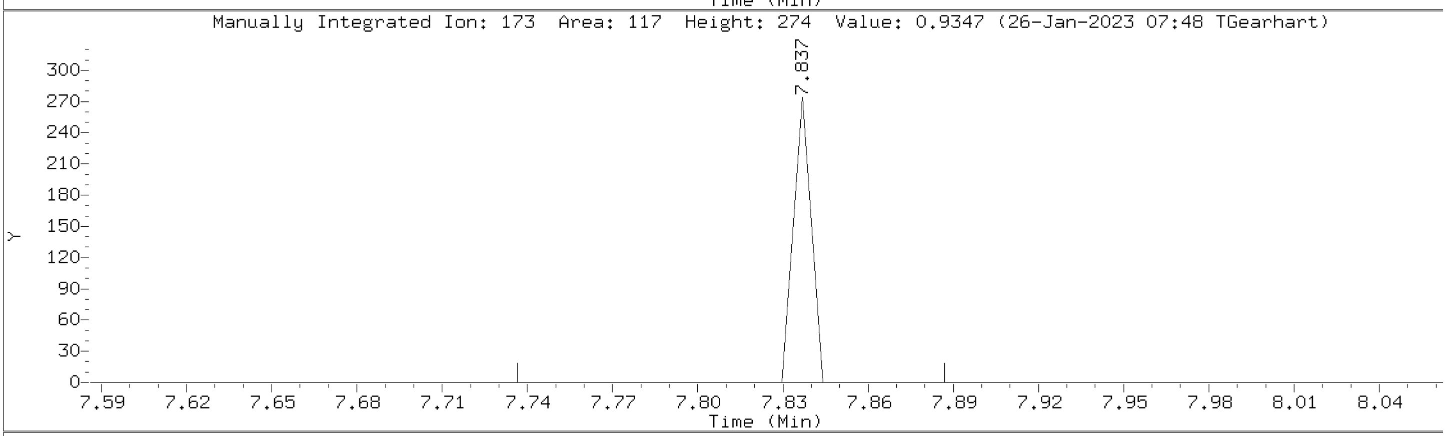
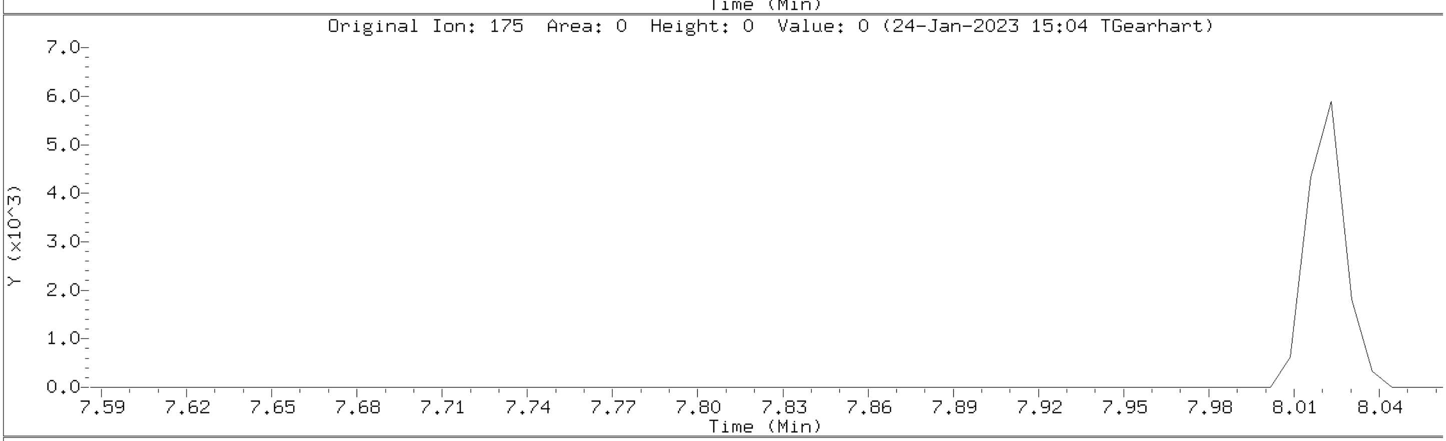
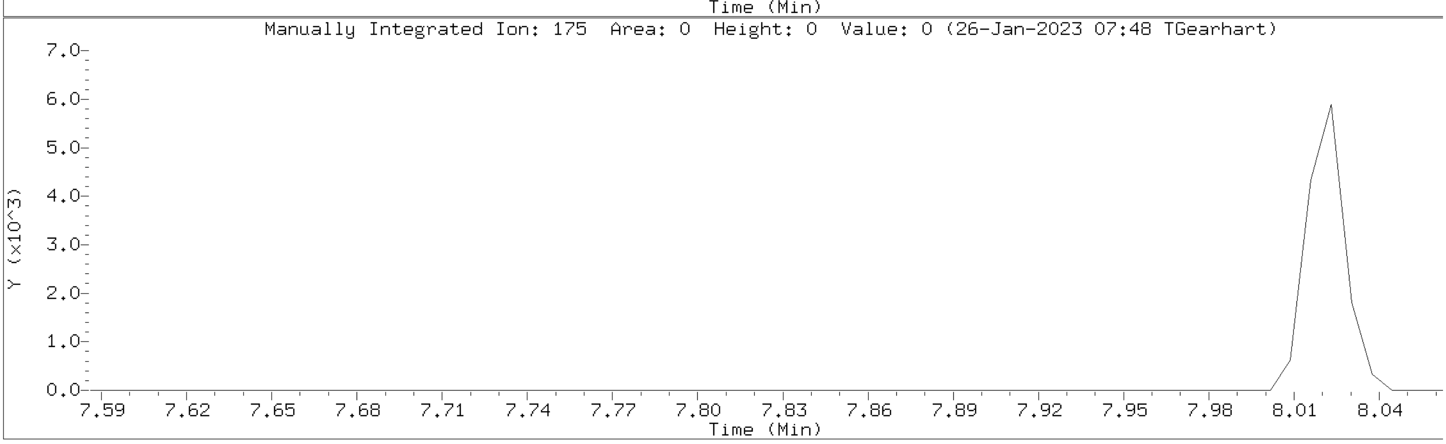
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2









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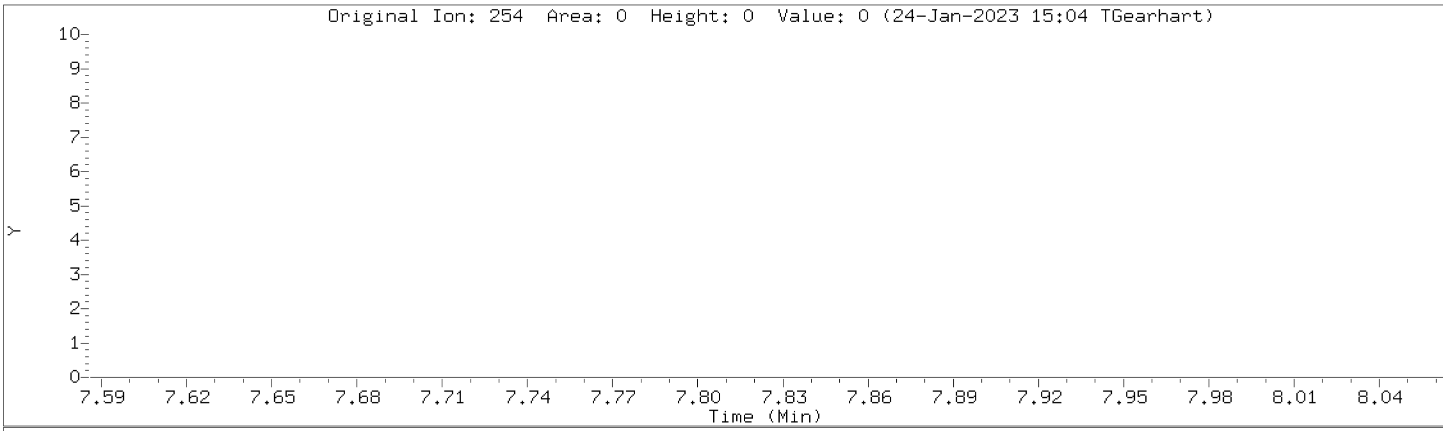
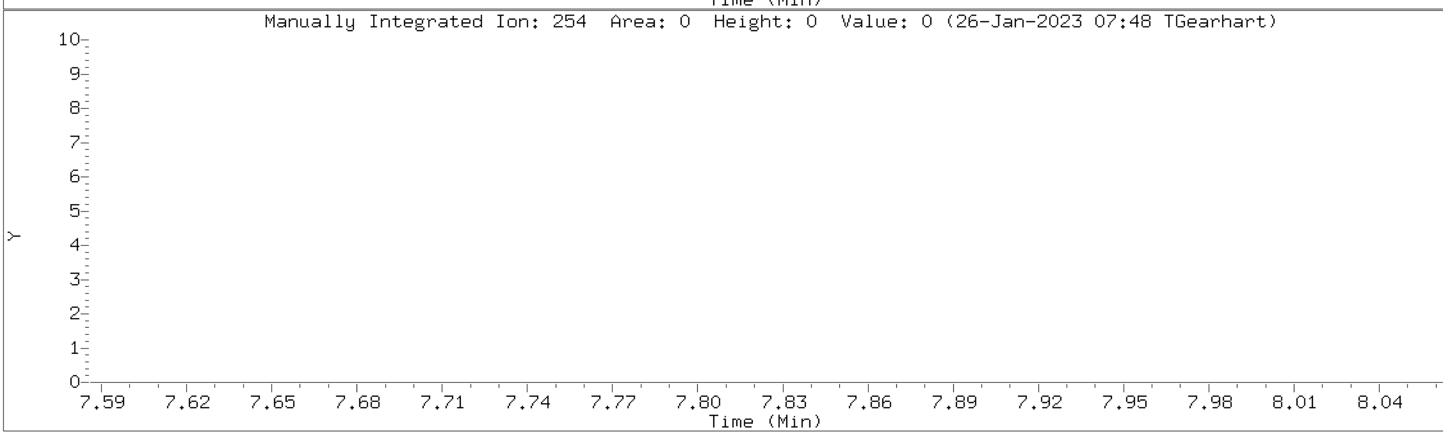
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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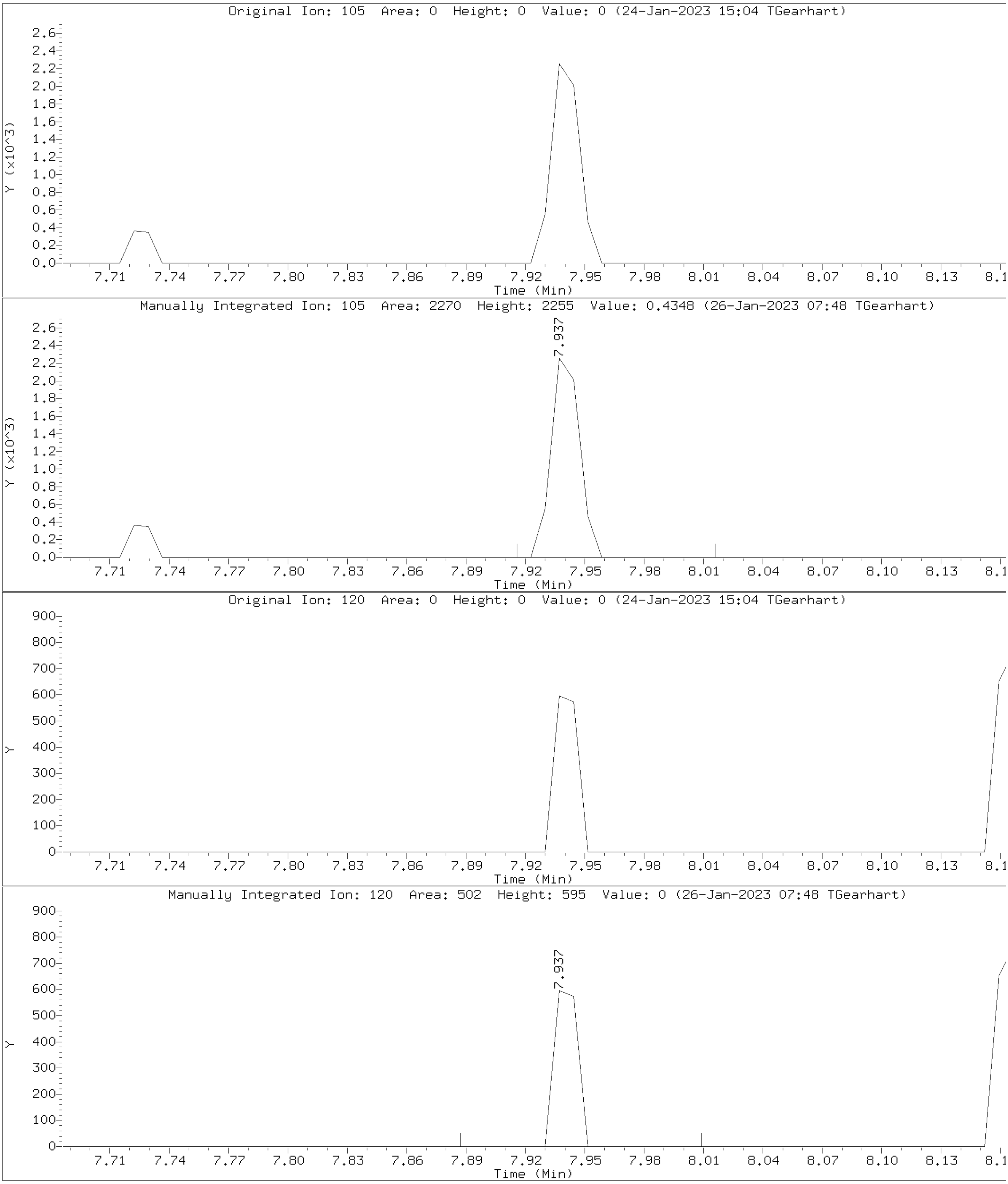
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Isopropylbenzene   Review Code: NI
CAS Number: 98-82-8



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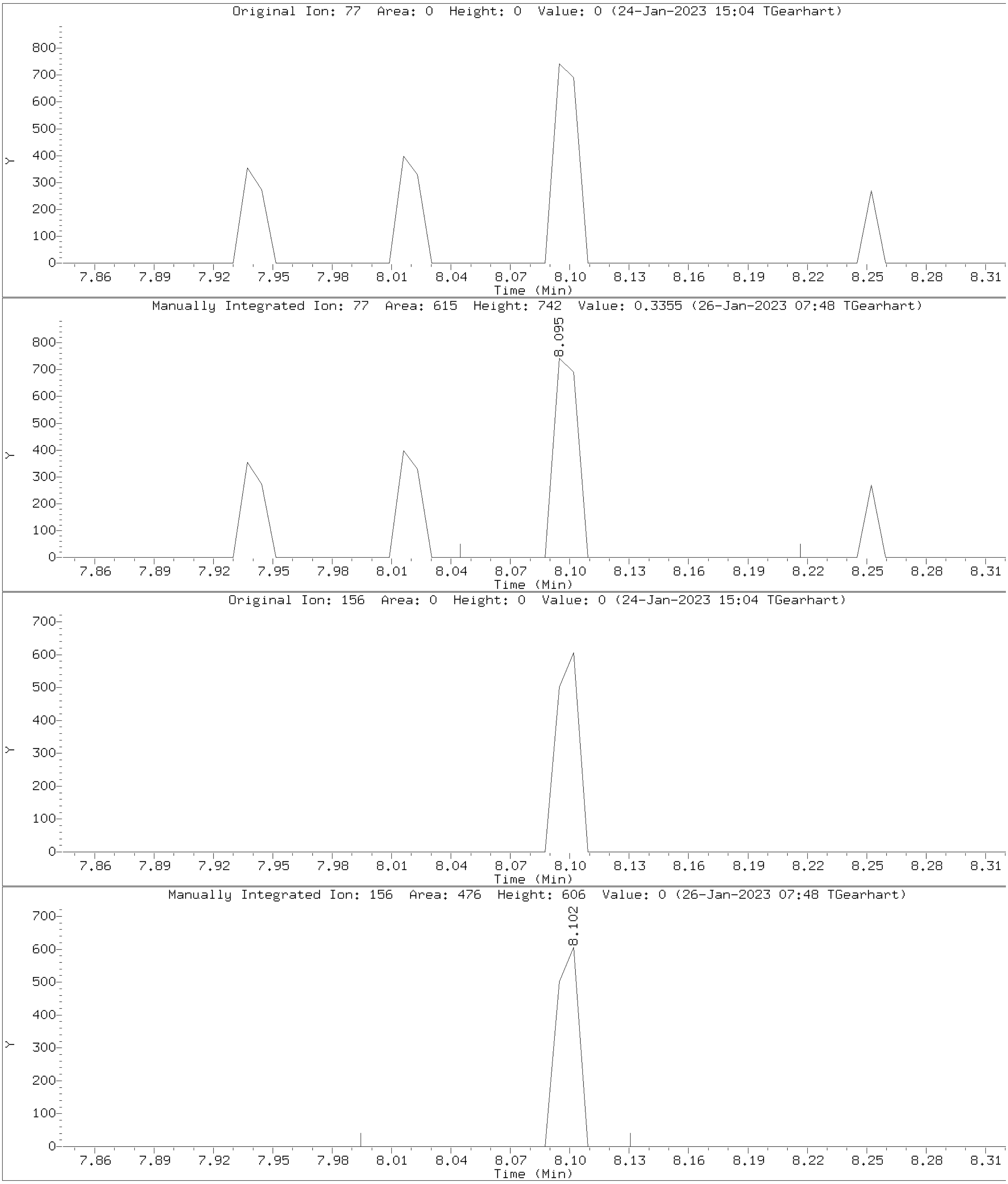
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Bromobenzene   Review Code: NI
CAS Number: 108-86-1



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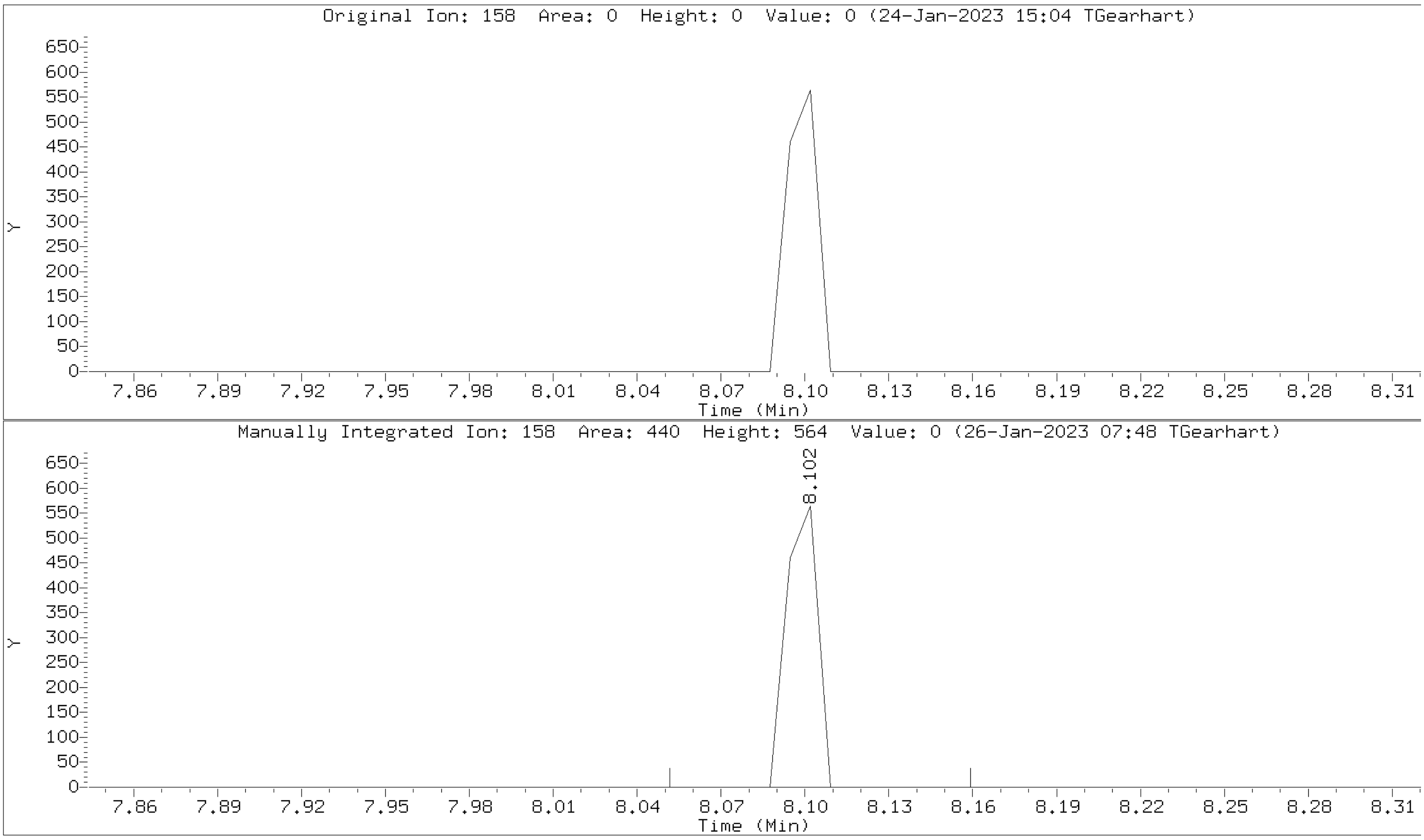
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1



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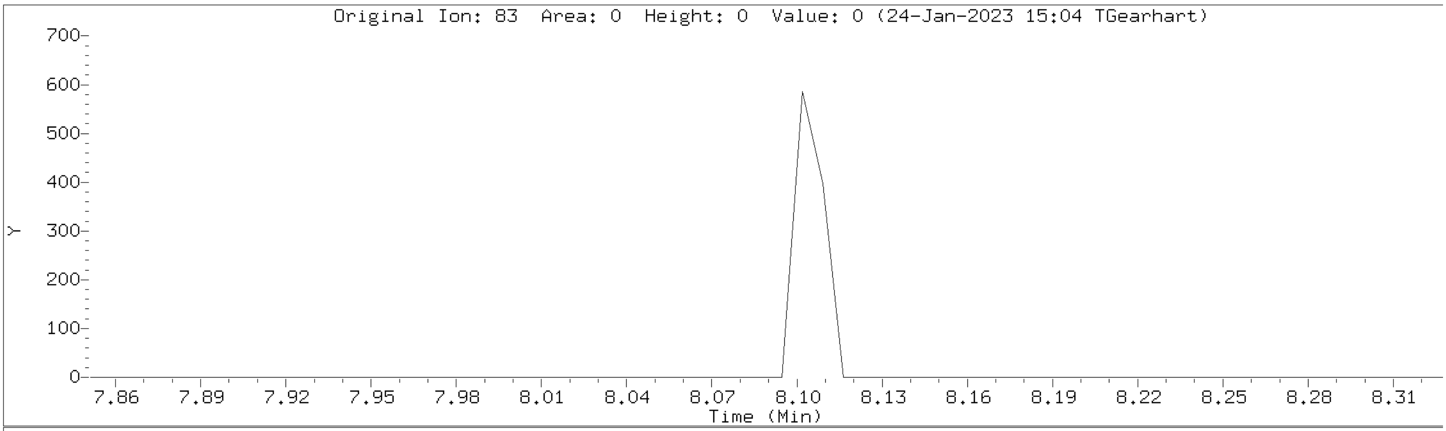
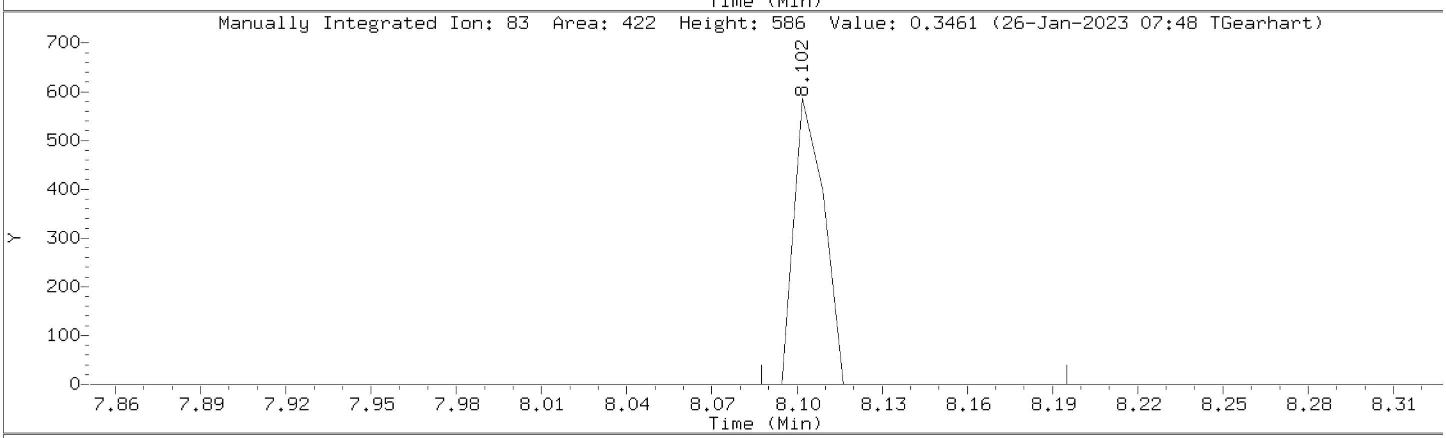
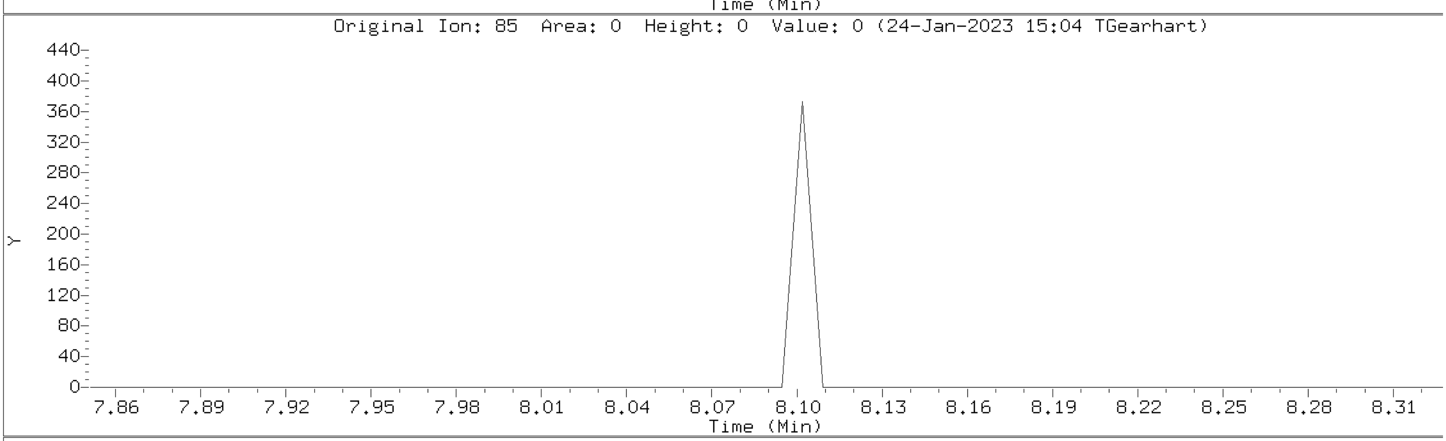
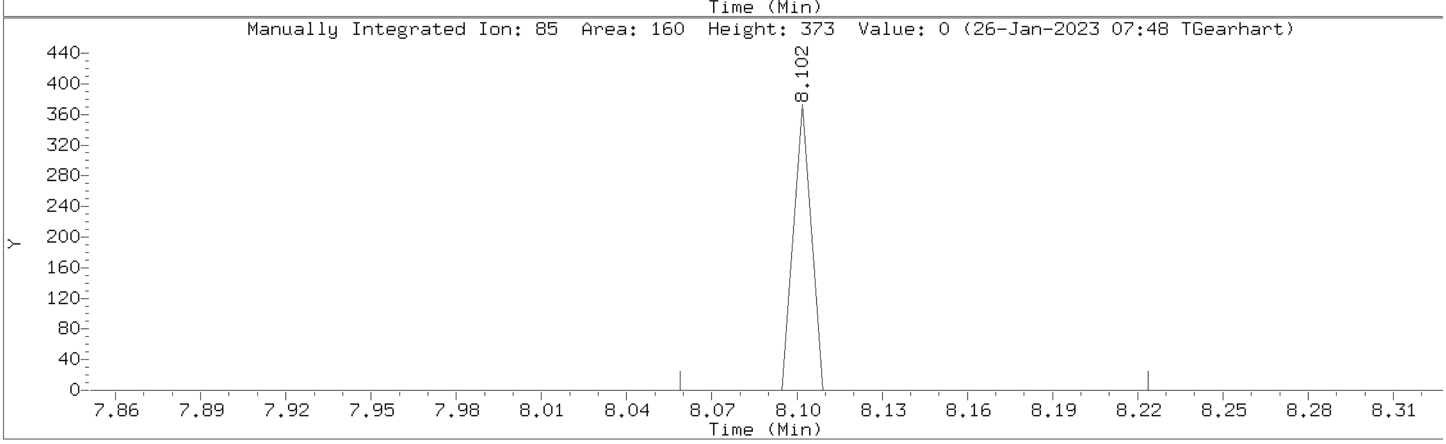
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5









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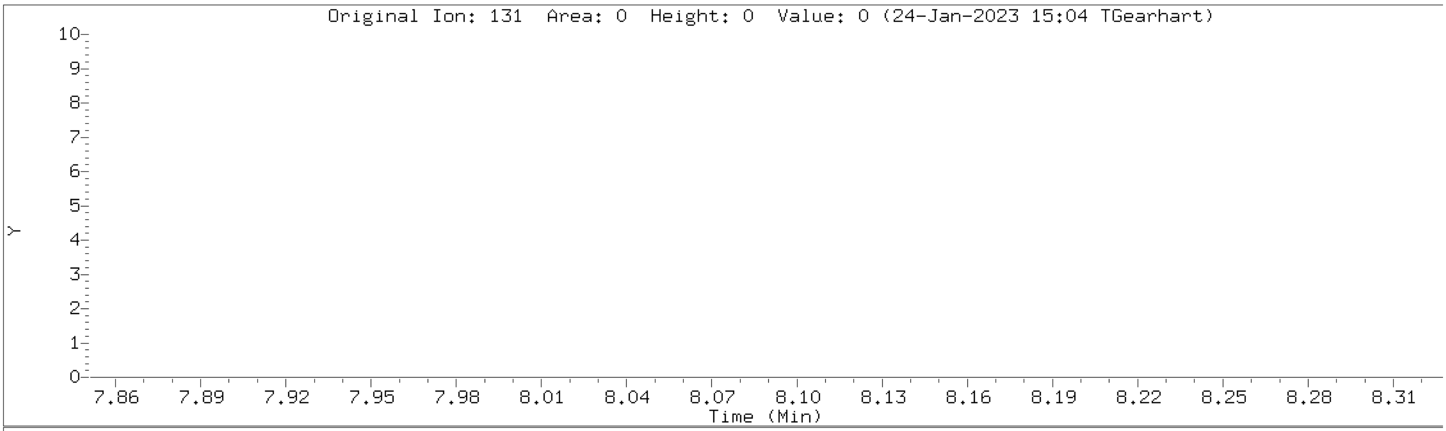
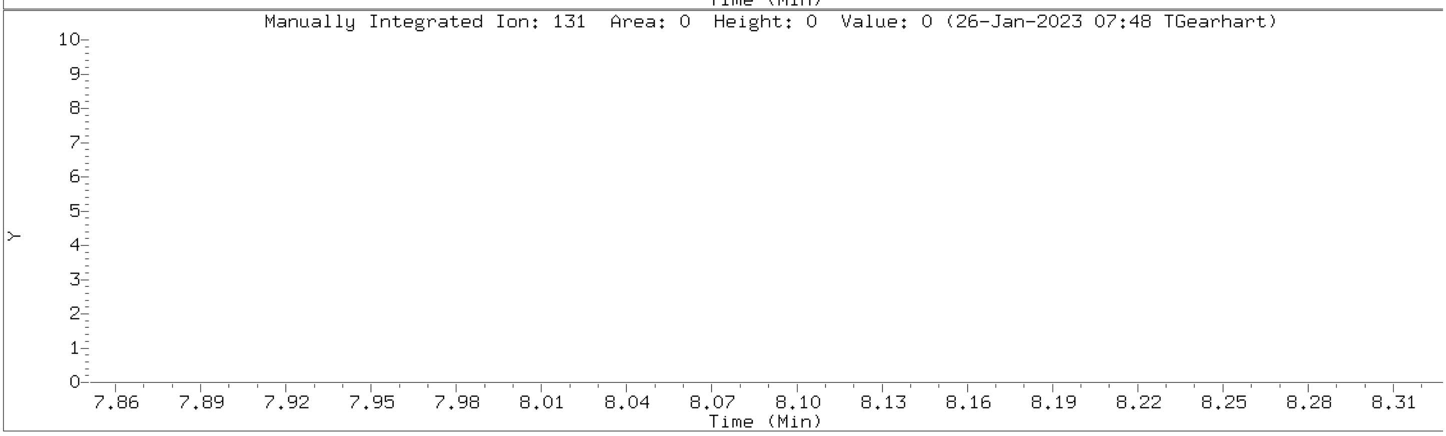
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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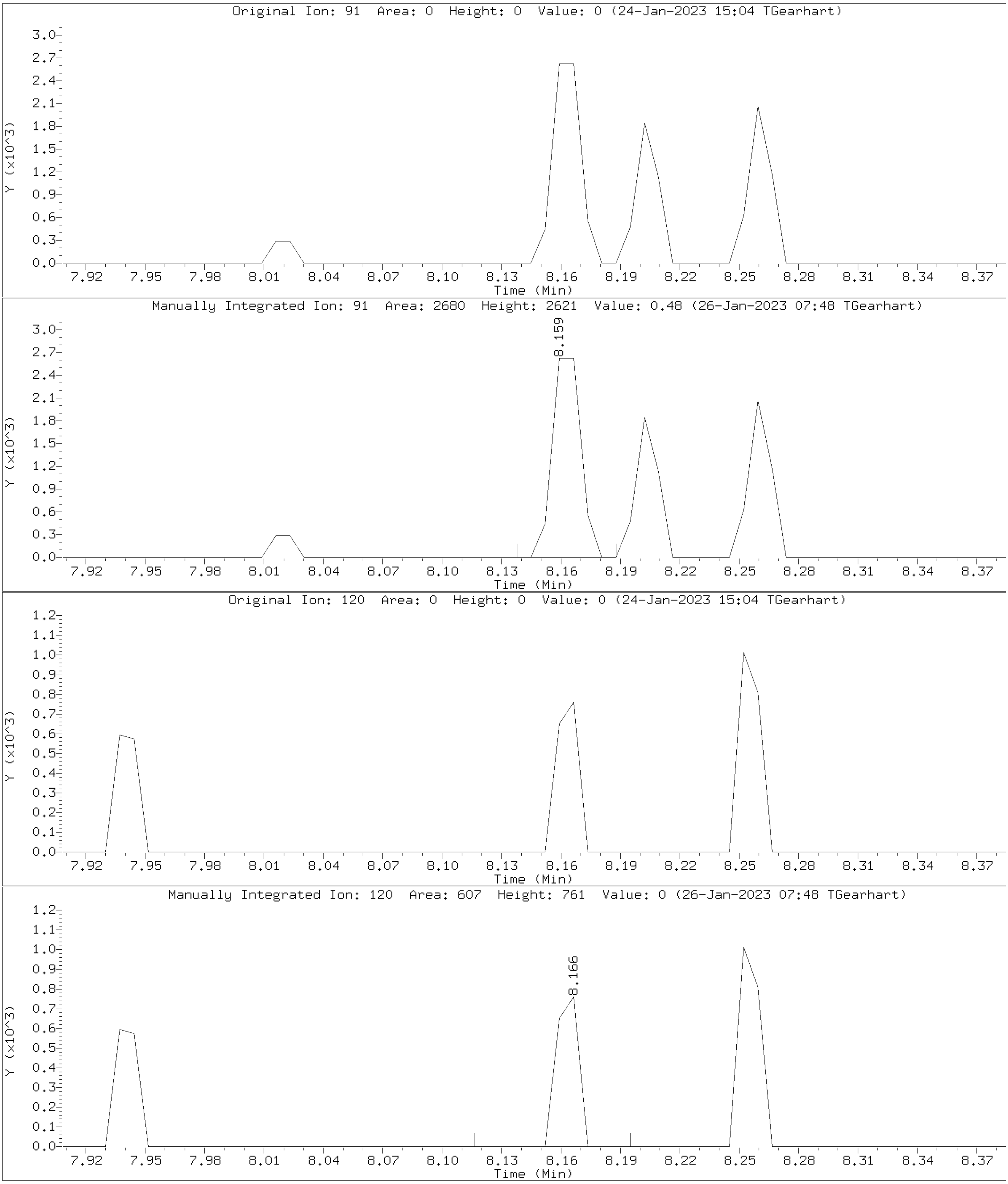
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

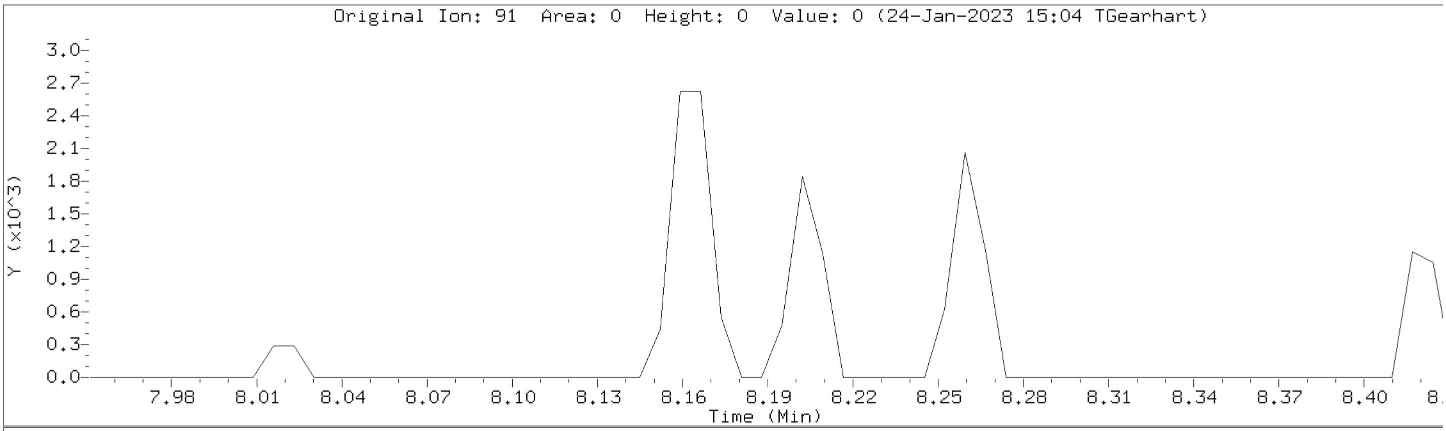
Compound: n-Propylbenzene   Review Code: NI
CAS Number: 103-65-1



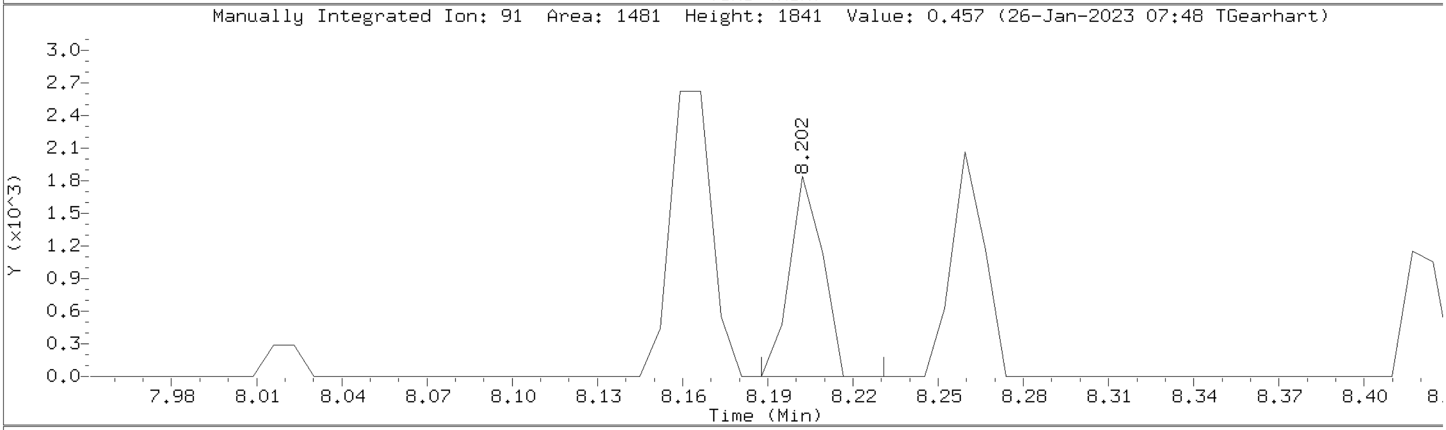
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 2-Chlorotoluene   Review Code: NI
CAS Number: 95-49-8

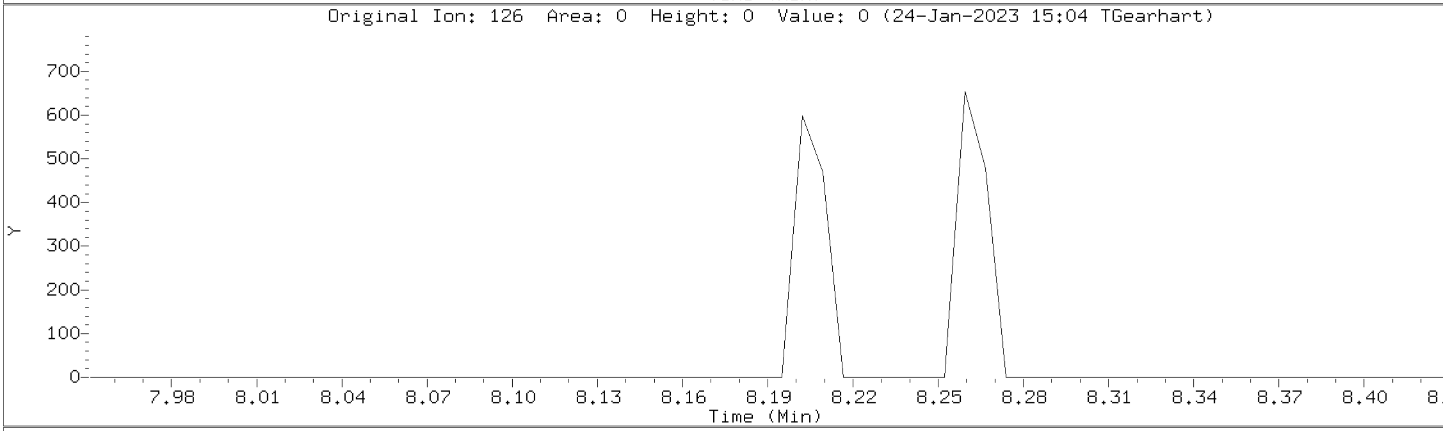
Original Ion: 91 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



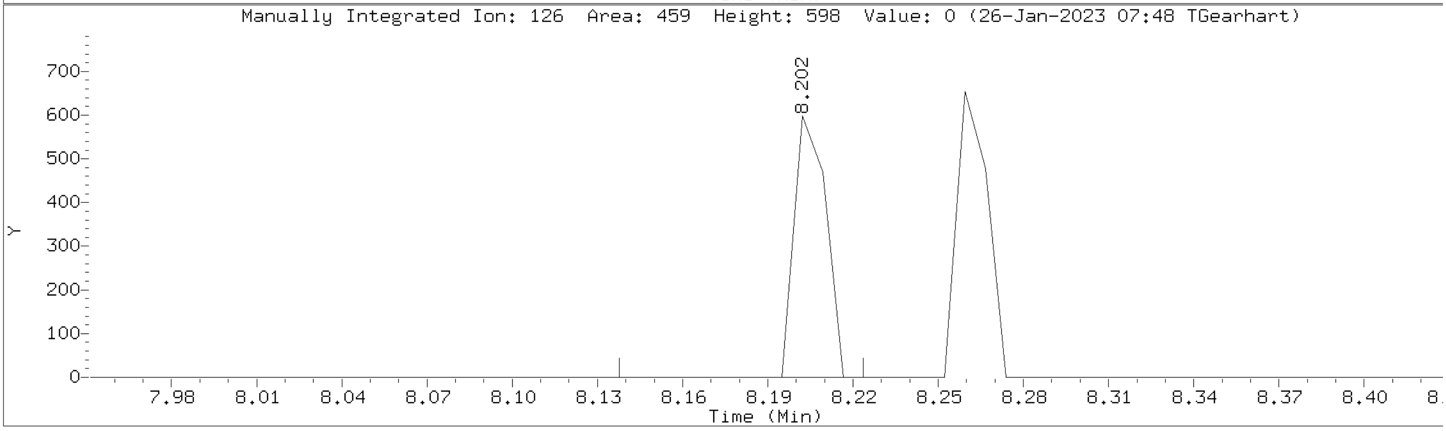
Manually Integrated Ion: 91 Area: 1481 Height: 1841 Value: 0.457 (26-Jan-2023 07:48 TGearhart)



Original Ion: 126 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



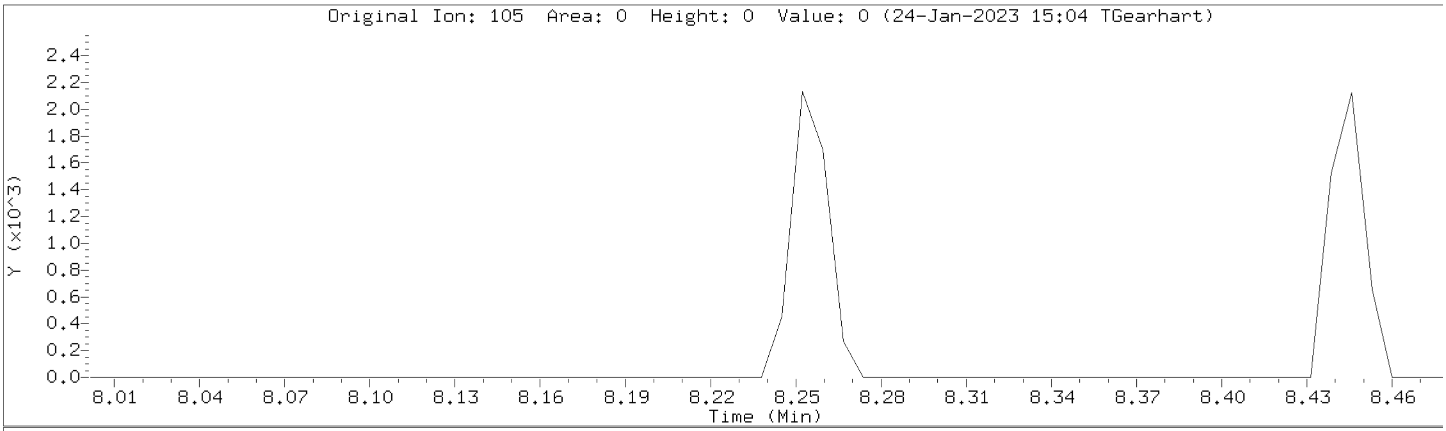
Manually Integrated Ion: 126 Area: 459 Height: 598 Value: 0 (26-Jan-2023 07:48 TGearhart)



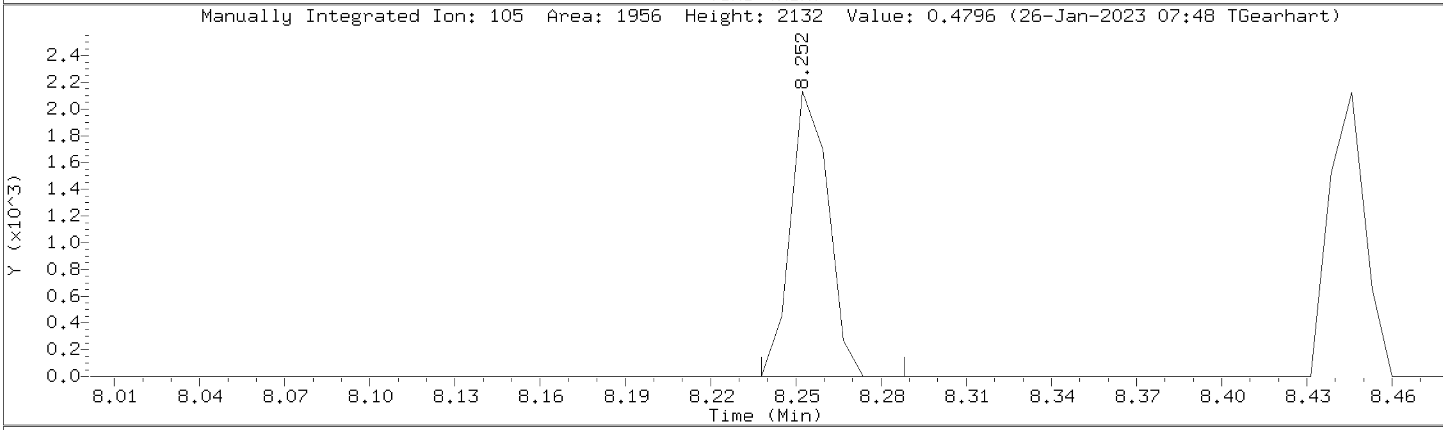
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,3,5-Trimethylbenzene   Review Code: NI
CAS Number: 108-67-8

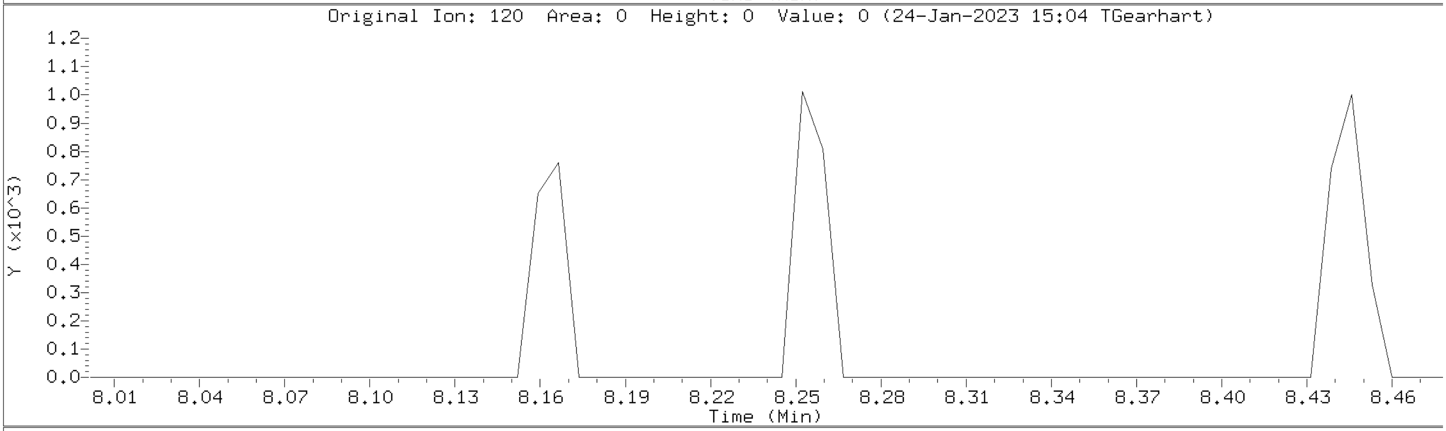
Original Ion: 105 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



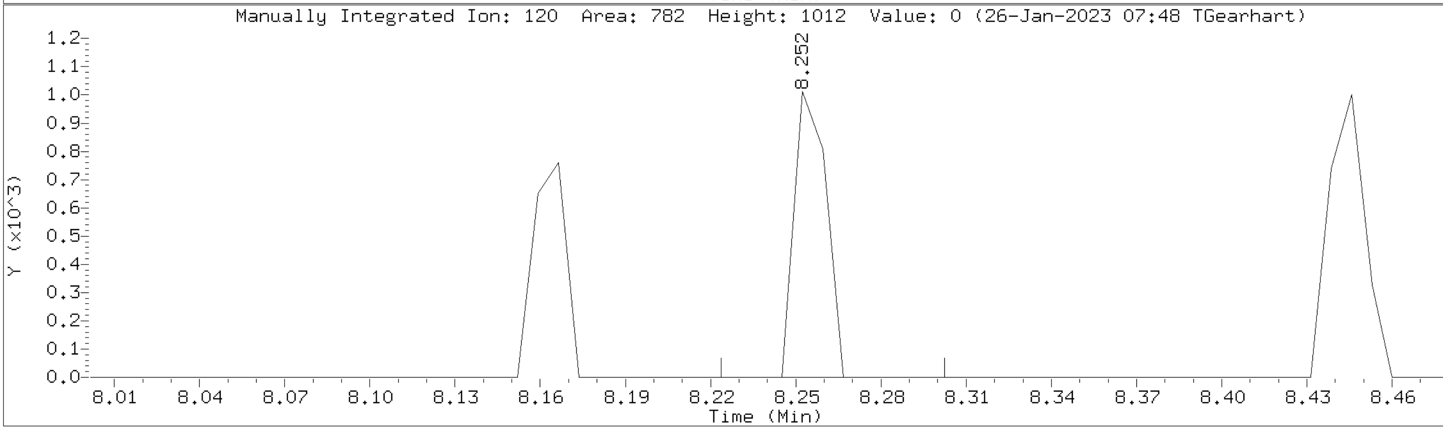
Manually Integrated Ion: 105 Area: 1956 Height: 2132 Value: 0.4796 (26-Jan-2023 07:48 TGearhart)



Original Ion: 120 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)

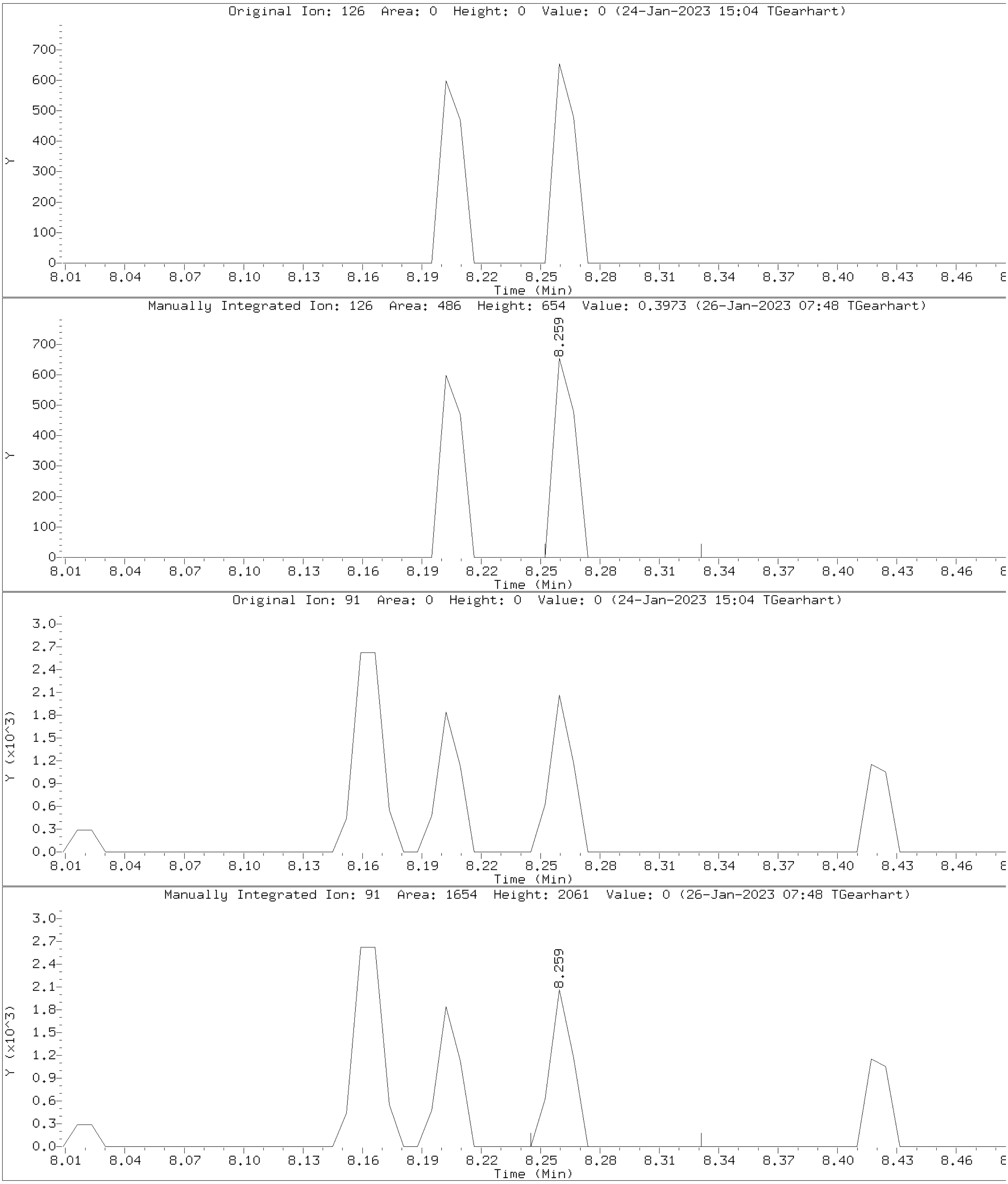


Manually Integrated Ion: 120 Area: 782 Height: 1012 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 4-Chlorotoluene   Review Code: NI
CAS Number: 106-43-4



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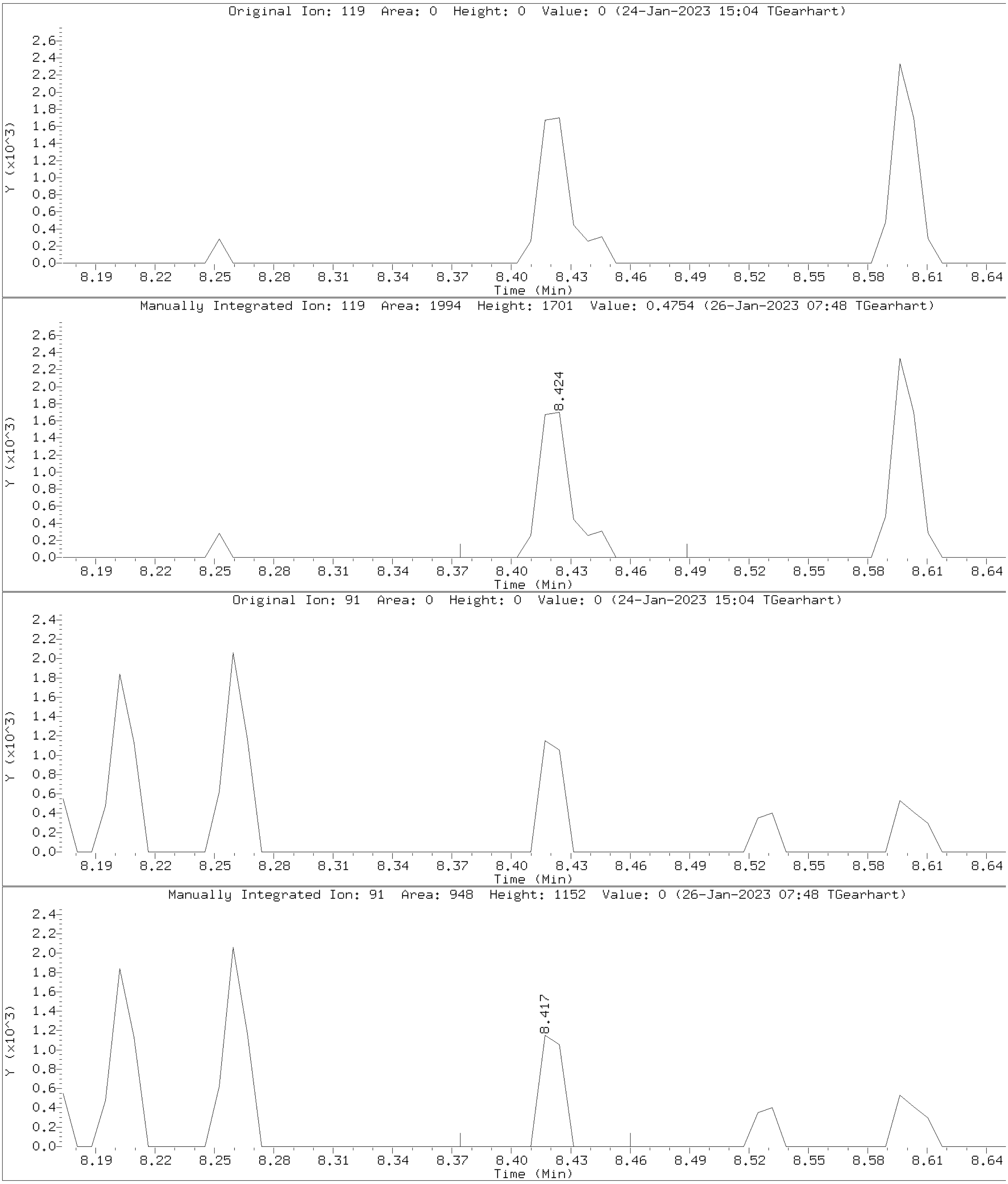
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: tert-Butylbenzene   Review Code: NI
CAS Number: 98-06-6



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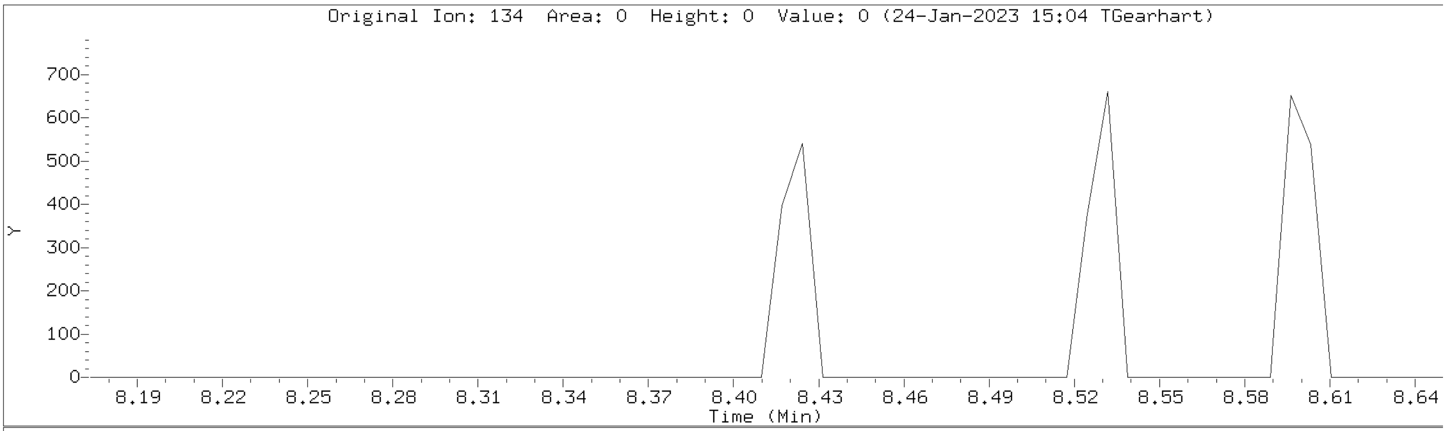
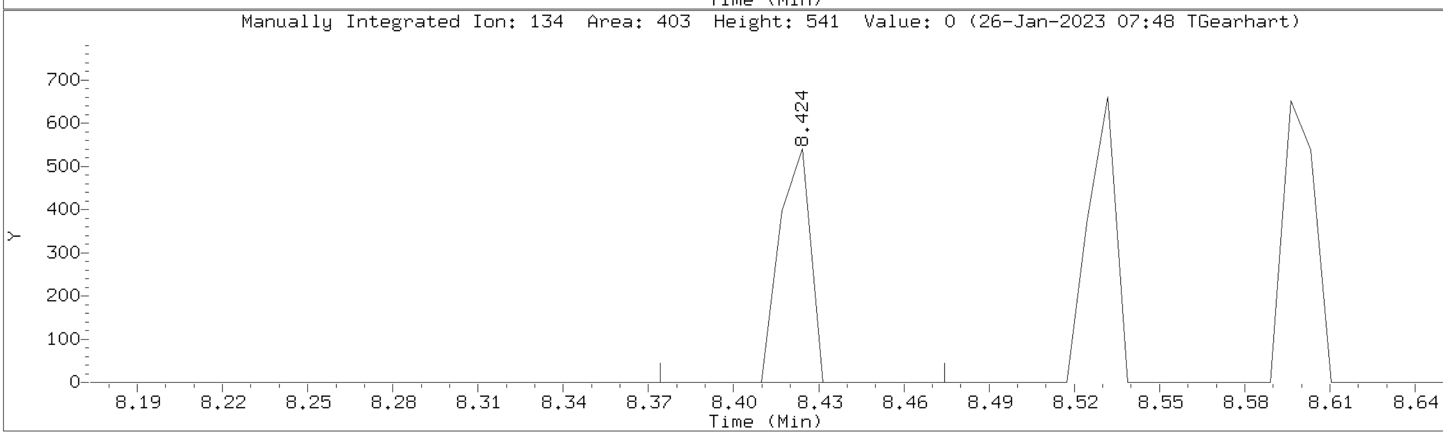
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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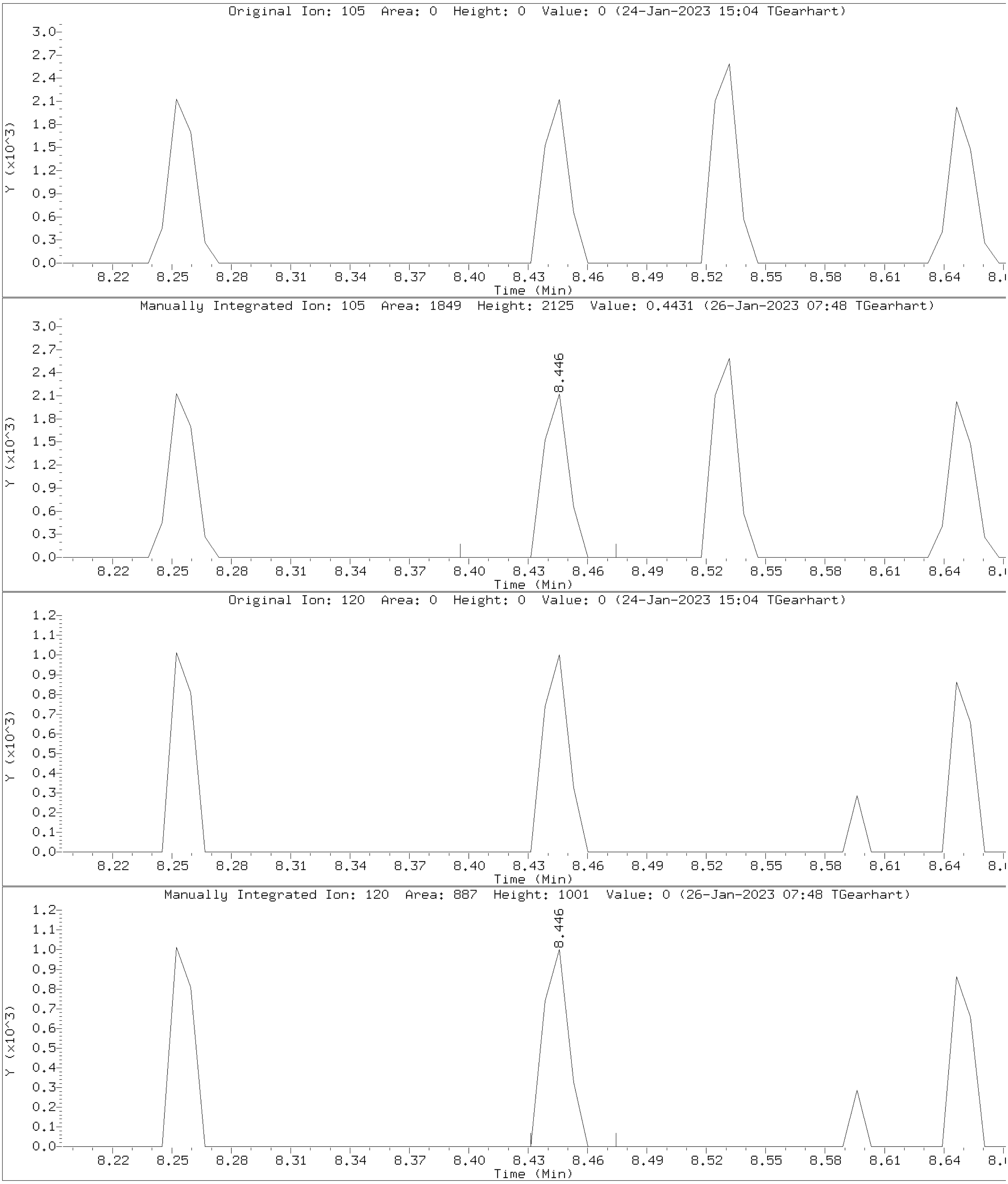
Lab Sample ID: 8260-CAL1

Compound: 1,2,4-Trimethylbenzene   Review Code: NI
CAS Number: 95-63-6



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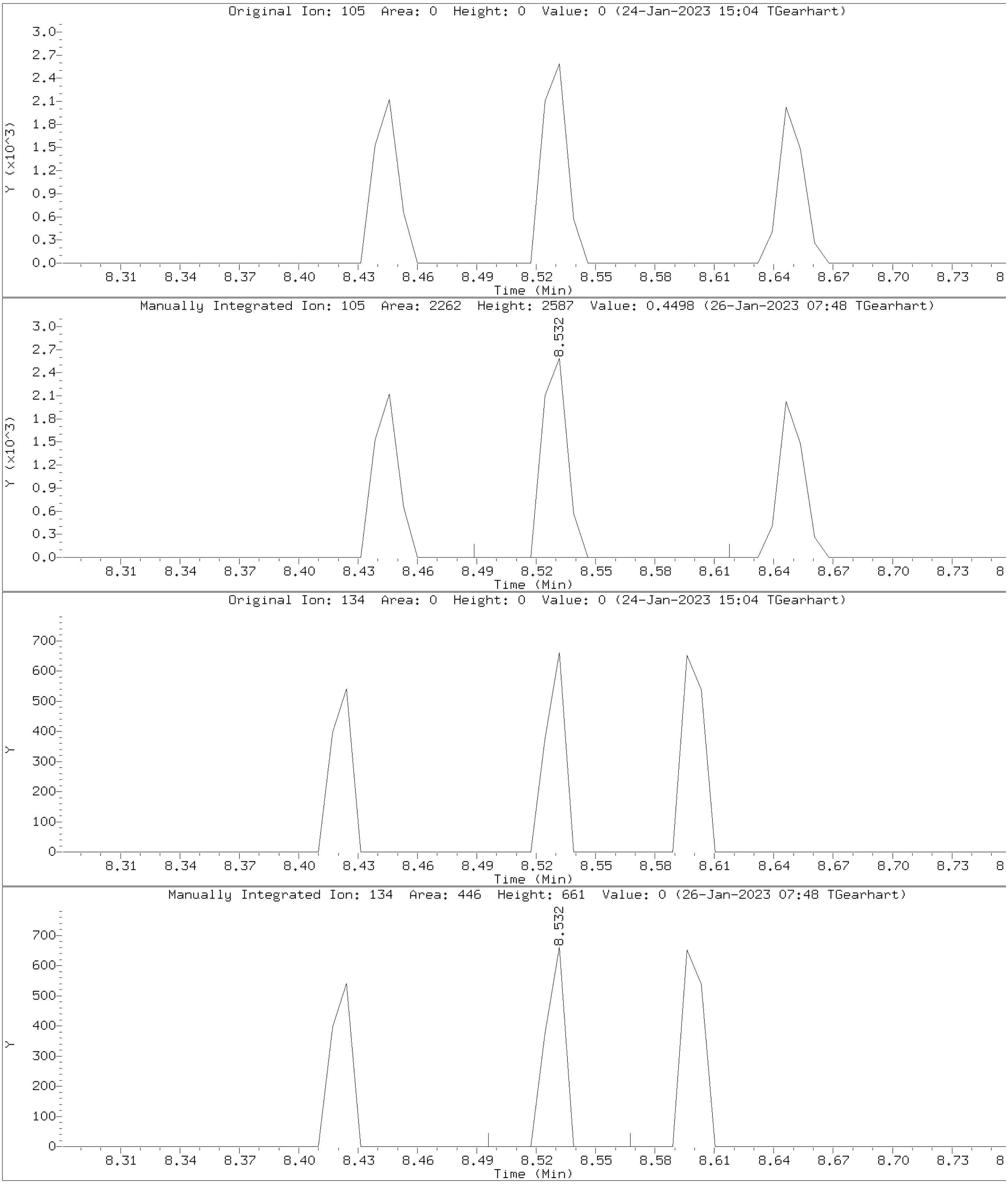
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: sec-Butylbenzene   Review Code: NI
CAS Number: 135-98-8



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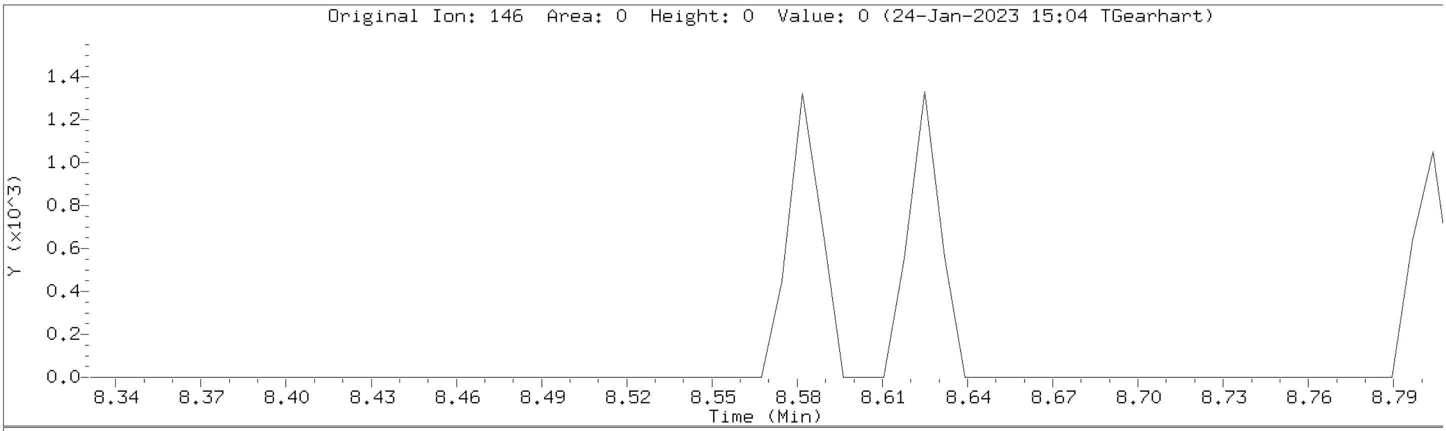
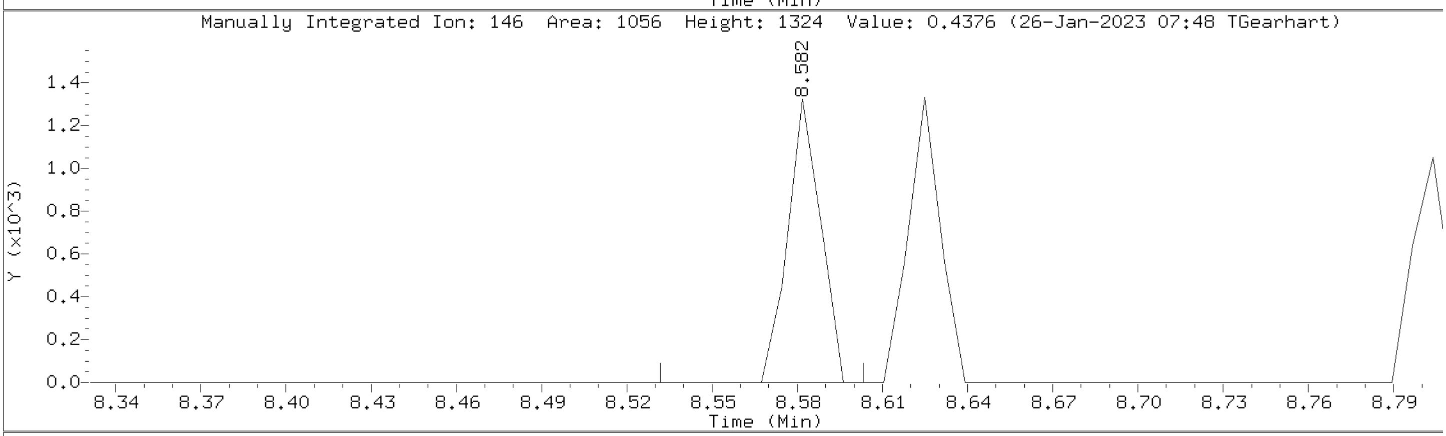
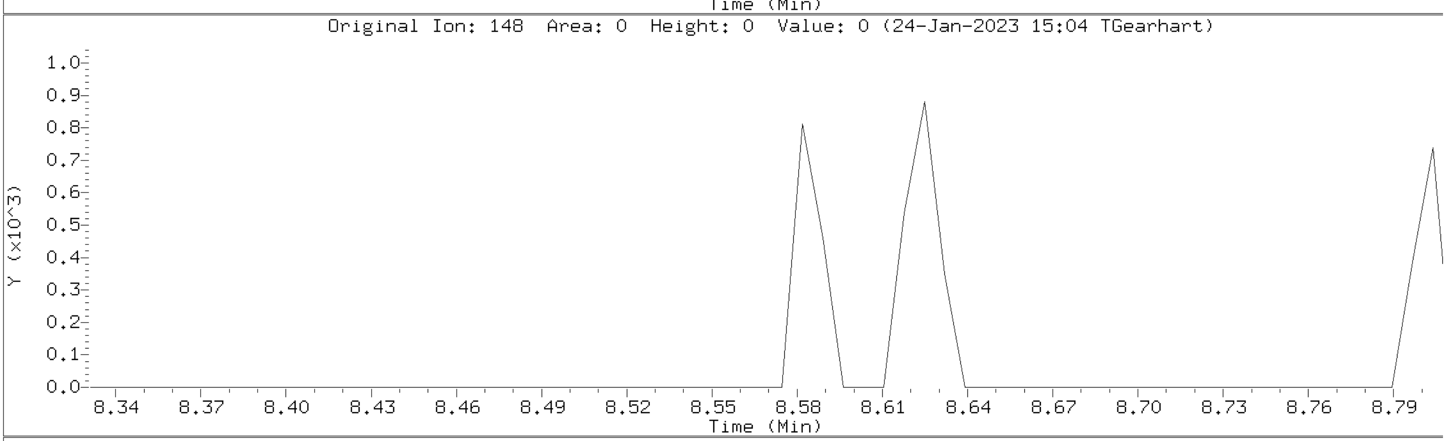
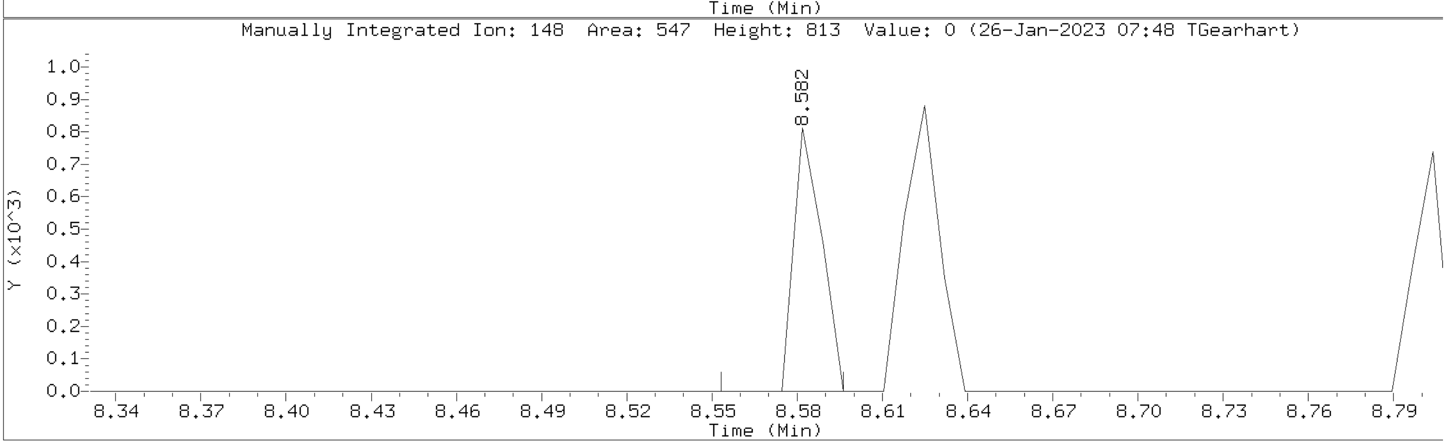
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,3-Dichlorobenzene   Review Code: NI
CAS Number: 541-73-1









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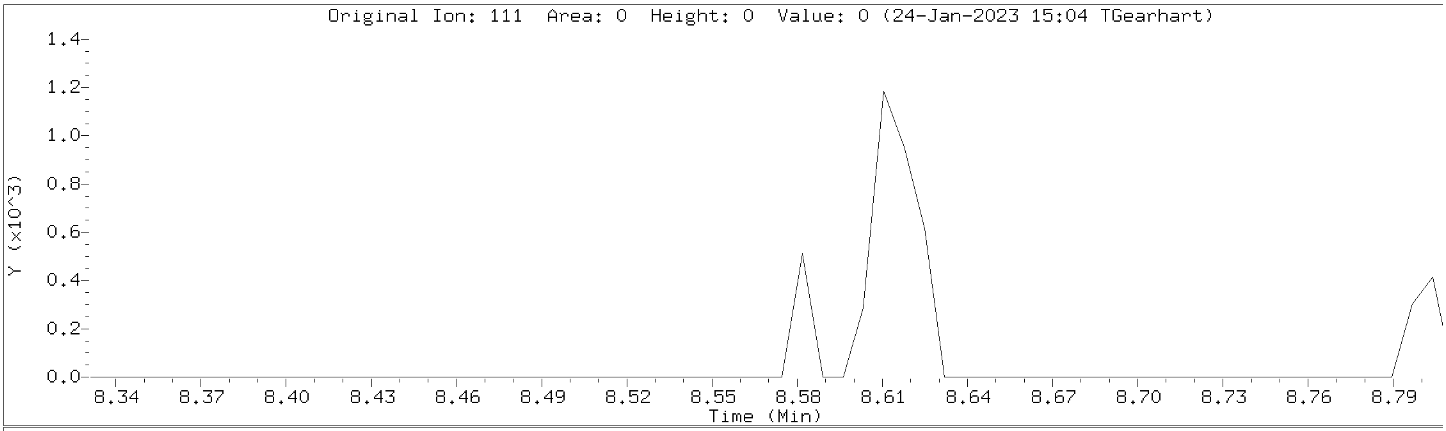
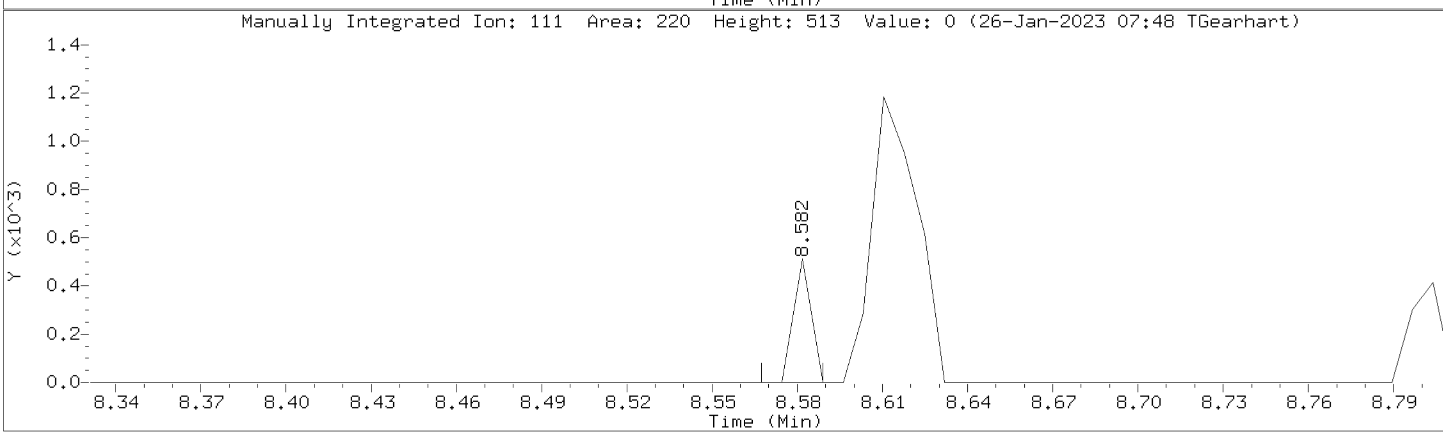
Lab Sample ID: 8260-CAL1





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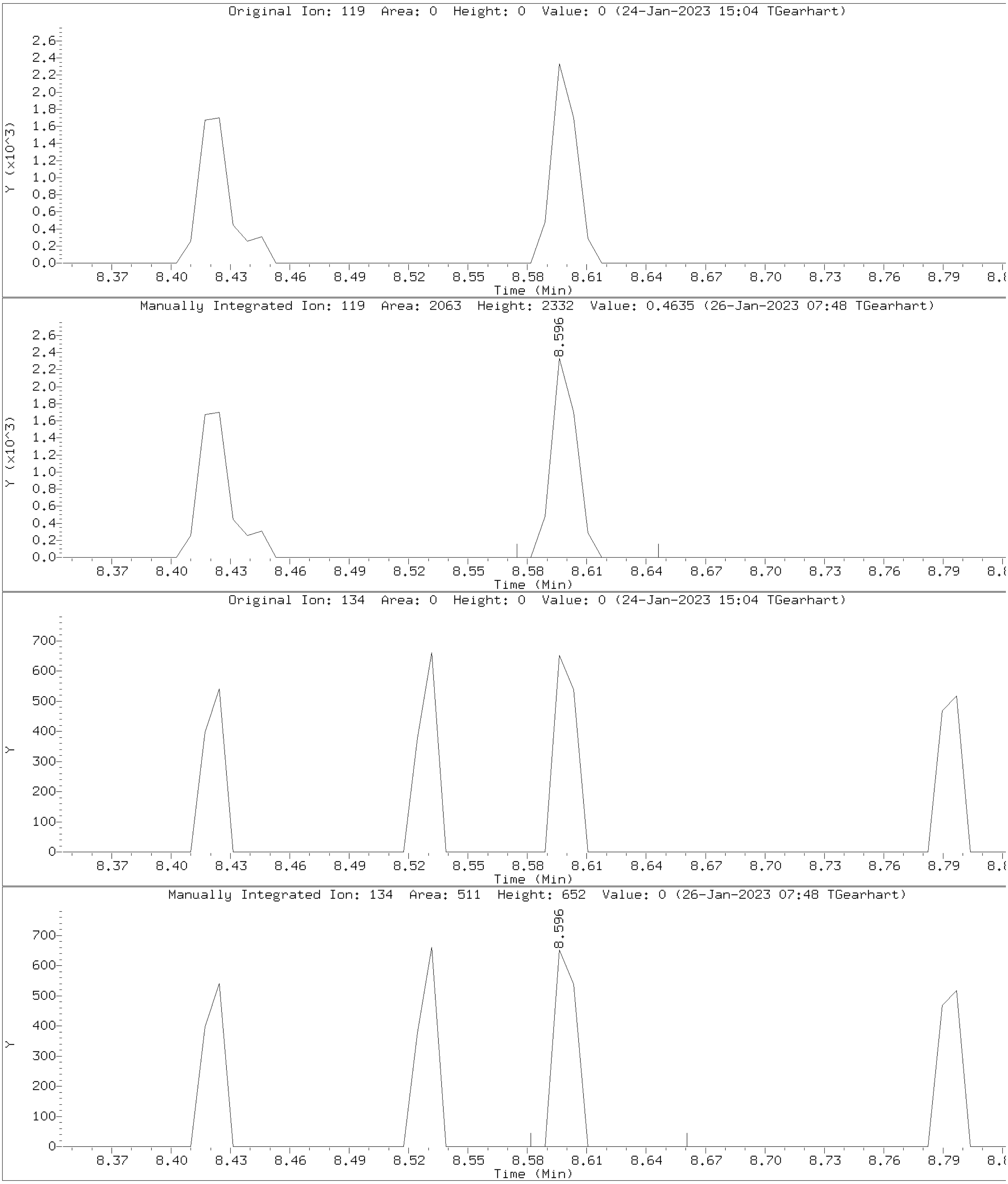
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: p-Isopropyltoluene   Review Code: NI
CAS Number: 99-87-6



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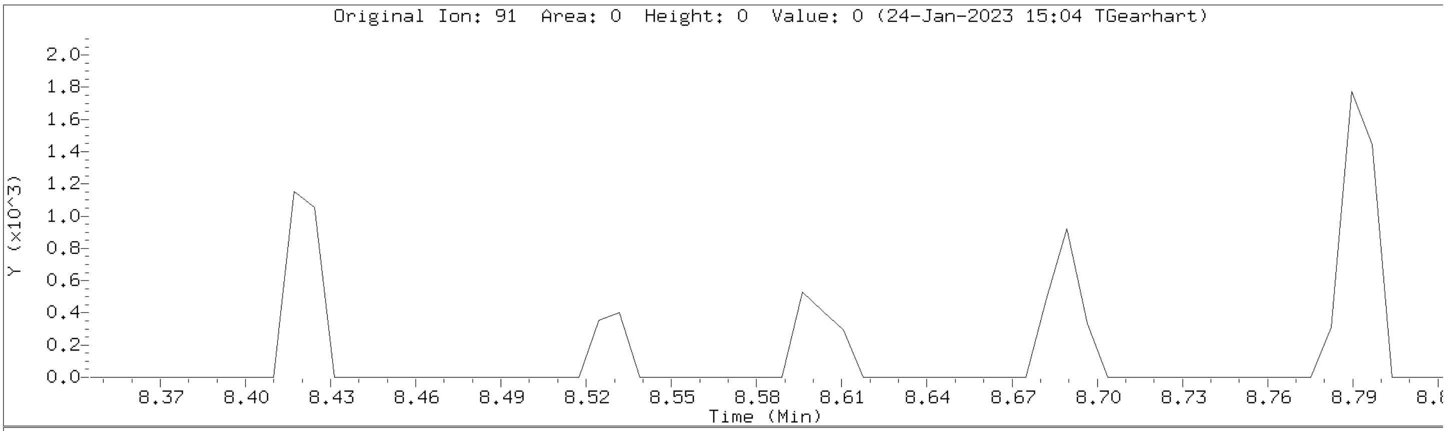
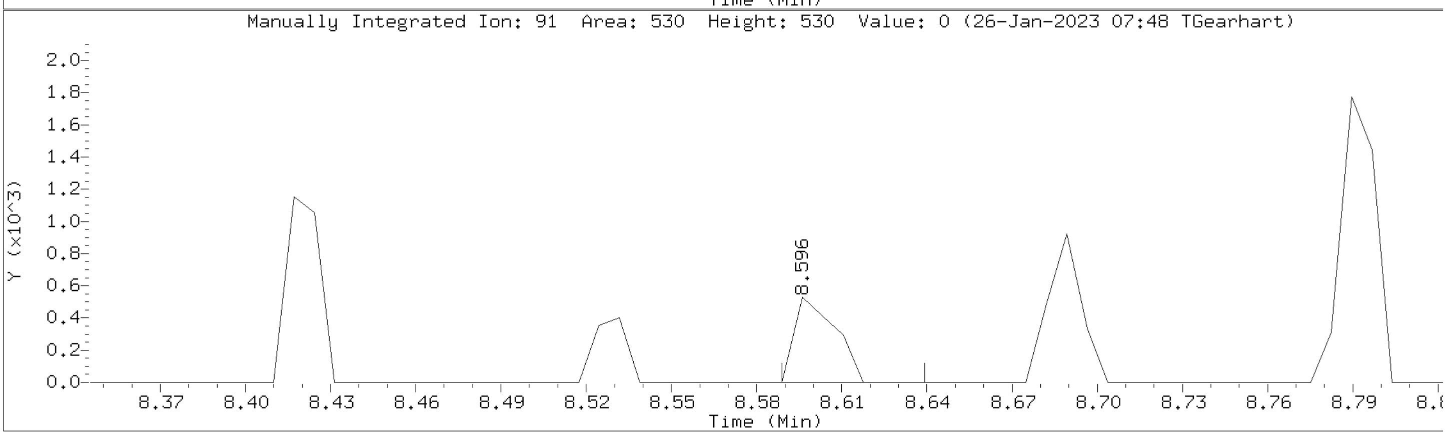
Lab Sample ID: 8260-CAL1





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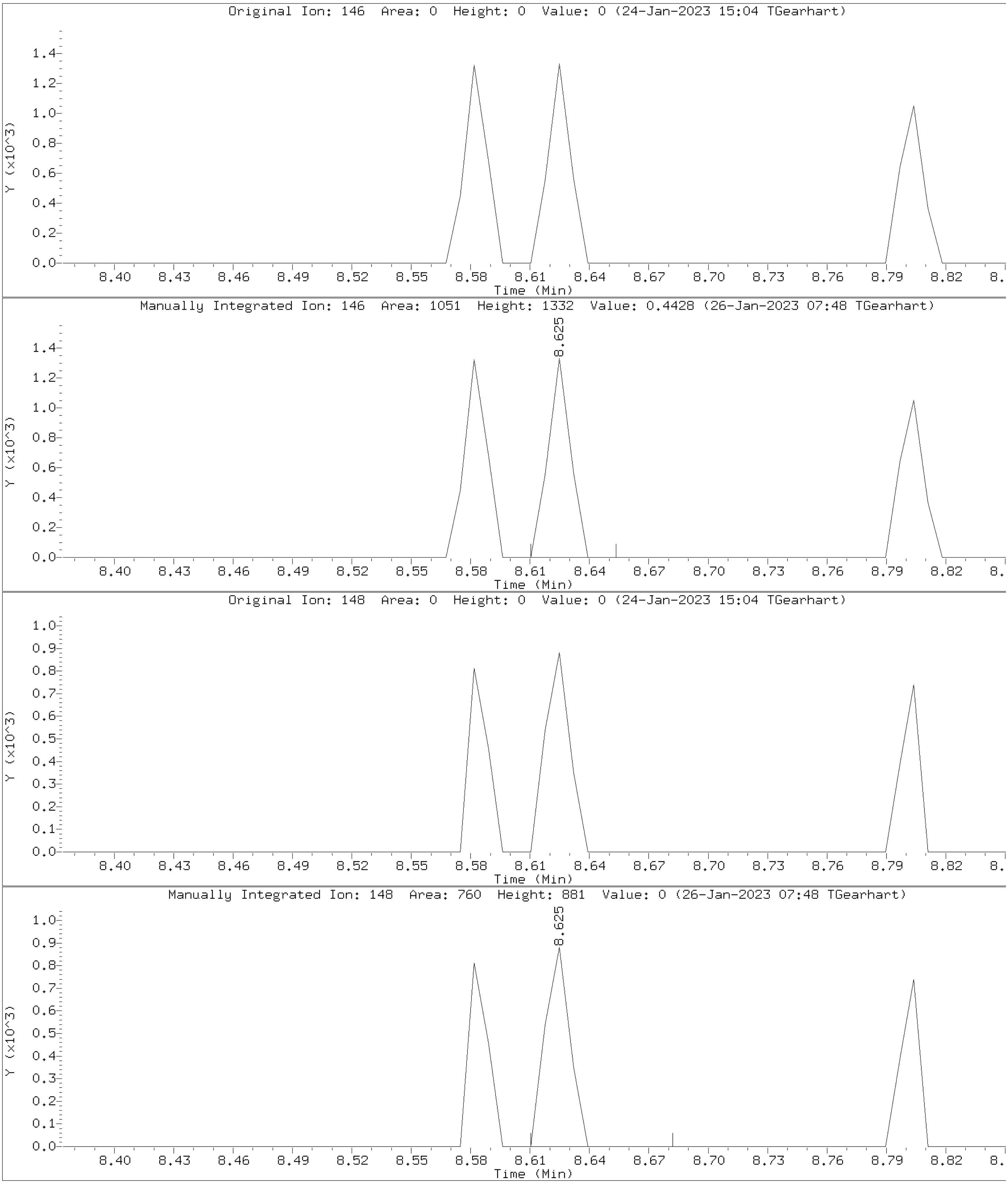
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,4-Dichlorobenzene   Review Code: NI
CAS Number: 106-46-7



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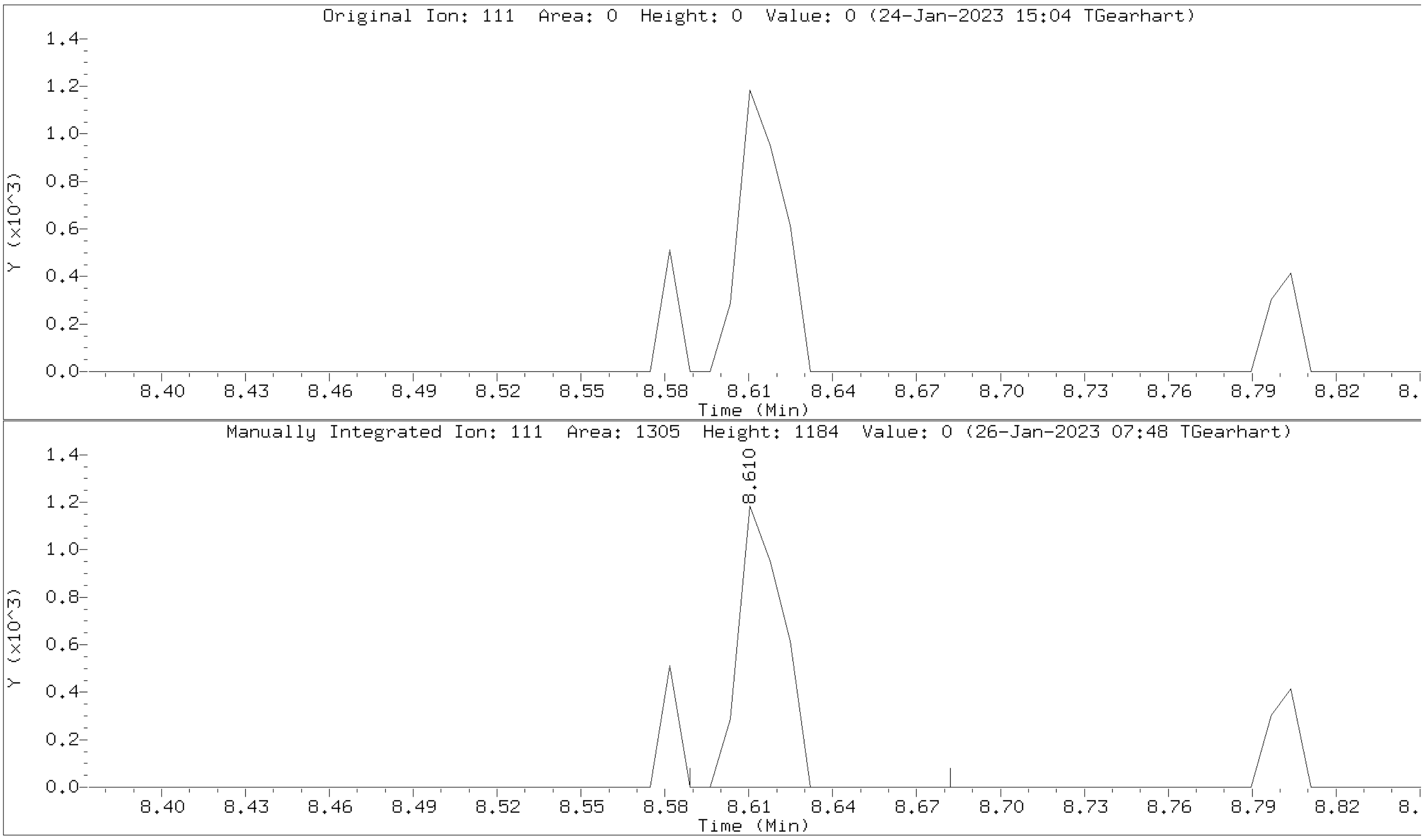
Lab Sample ID: 8260-CAL1



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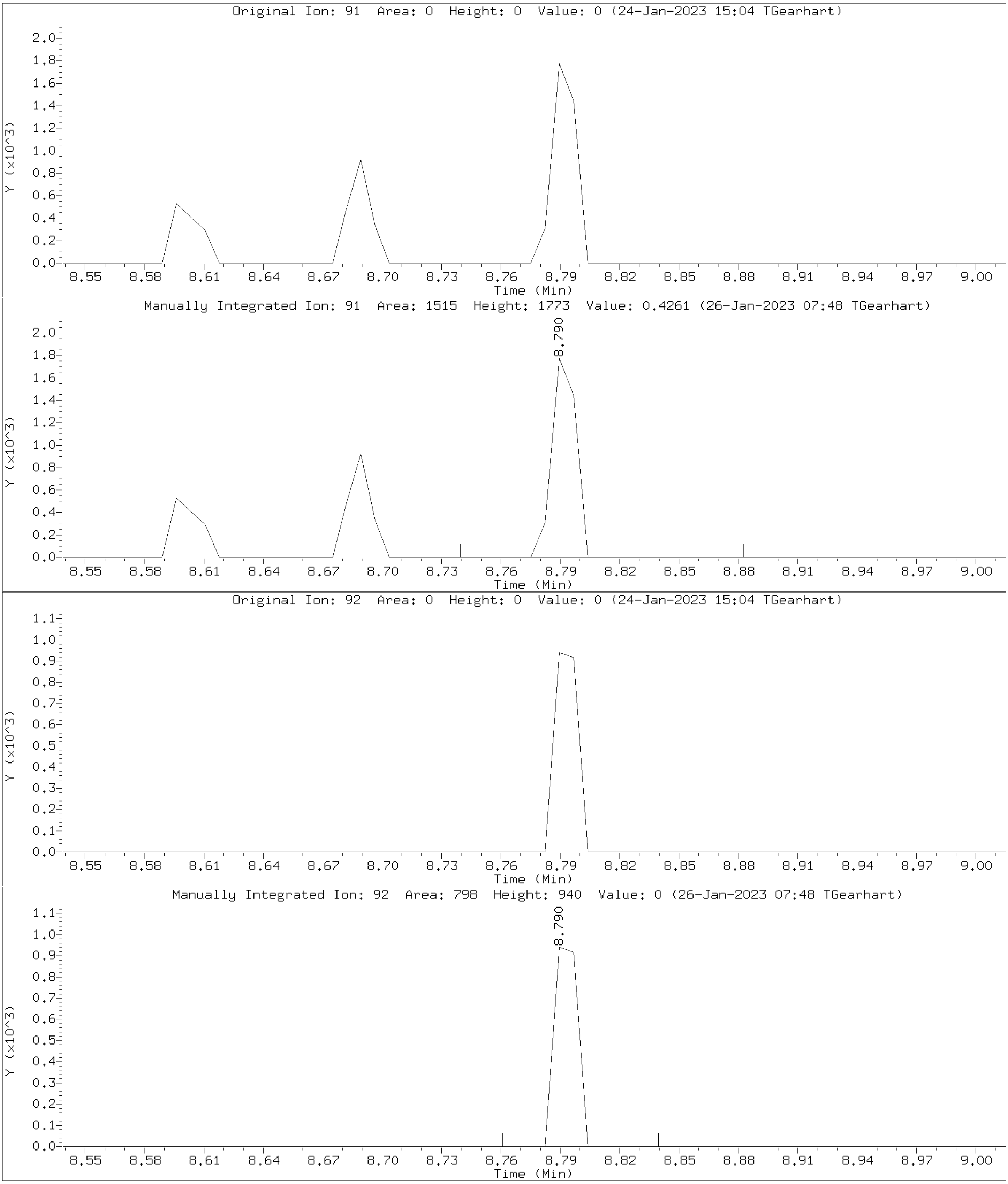
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: n-Butylbenzene   Review Code: NI
CAS Number: 104-51-8



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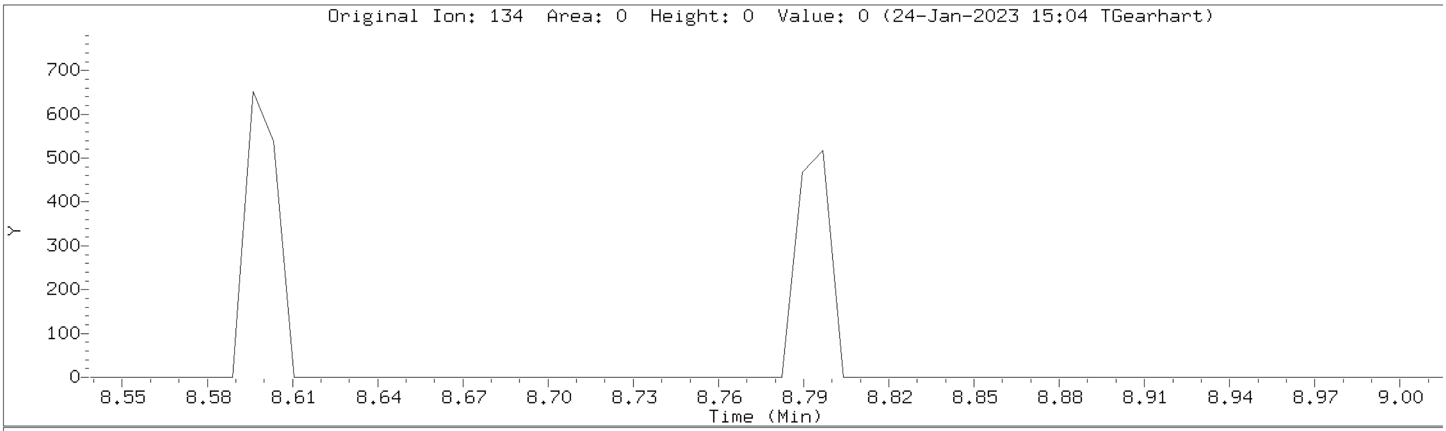
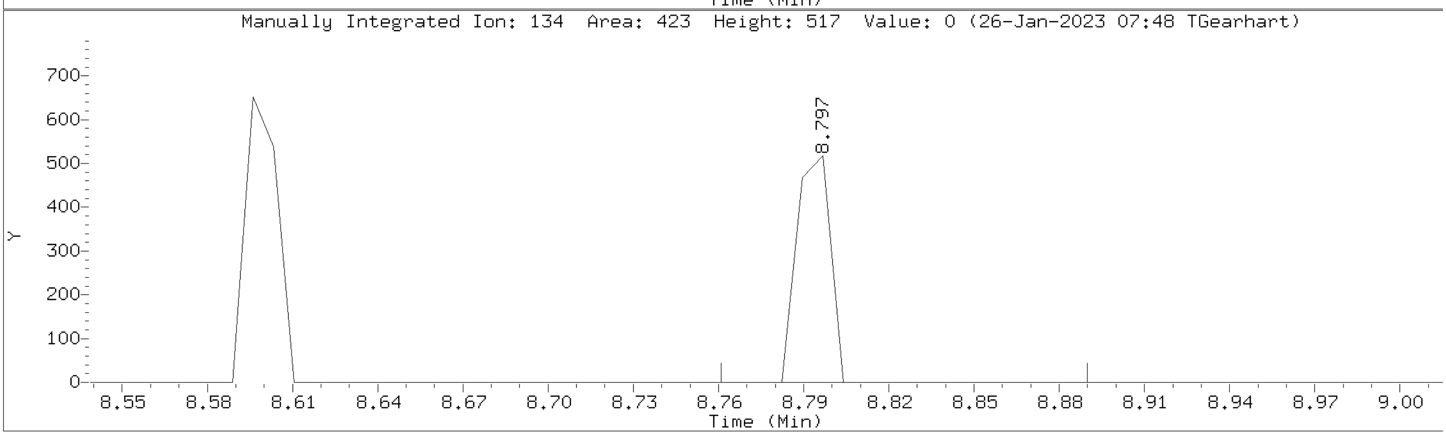
Lab Sample ID: 8260-CAL1





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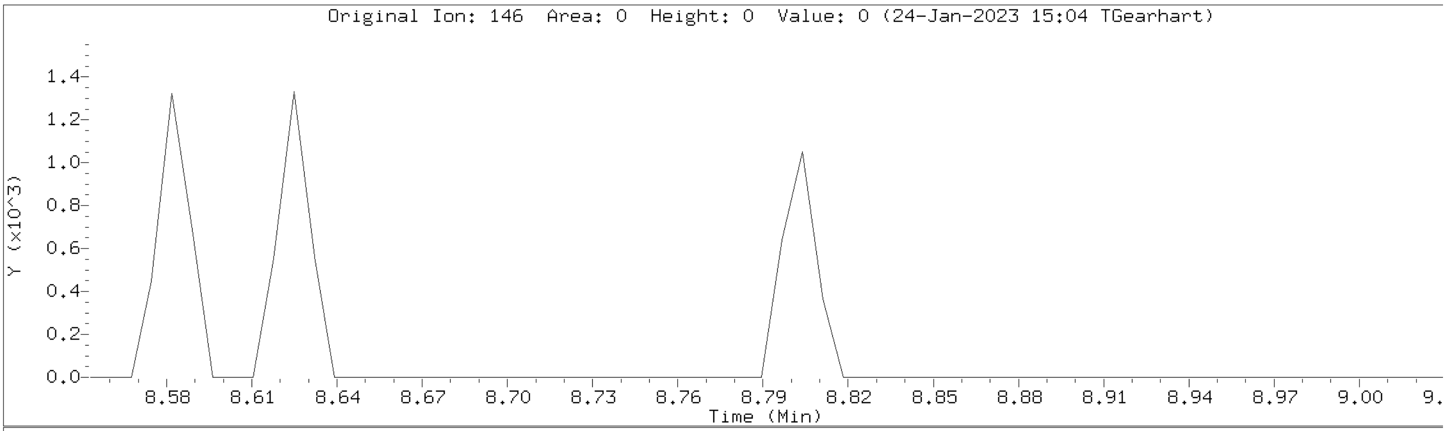
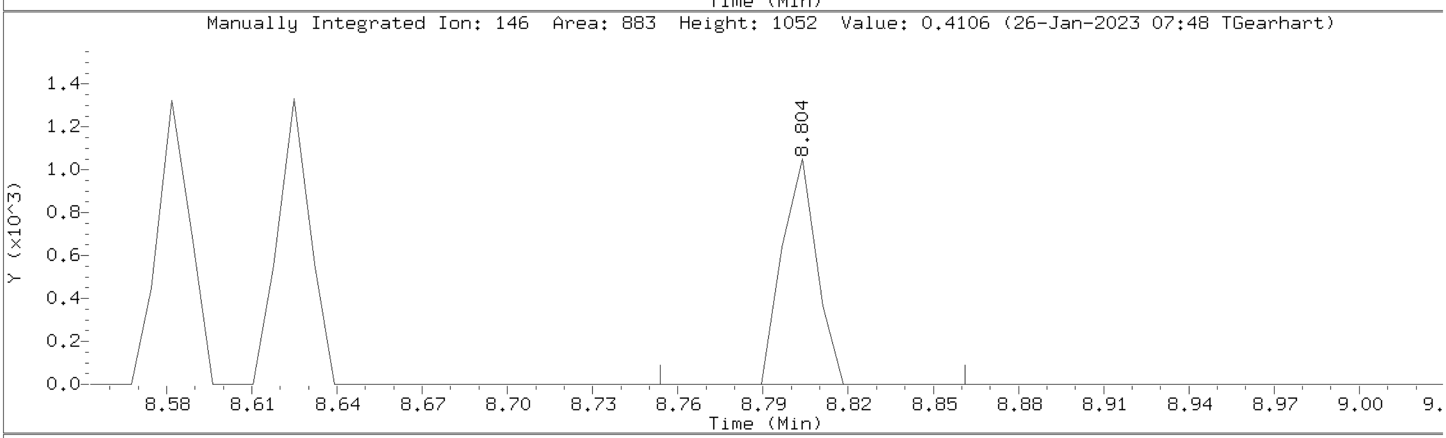
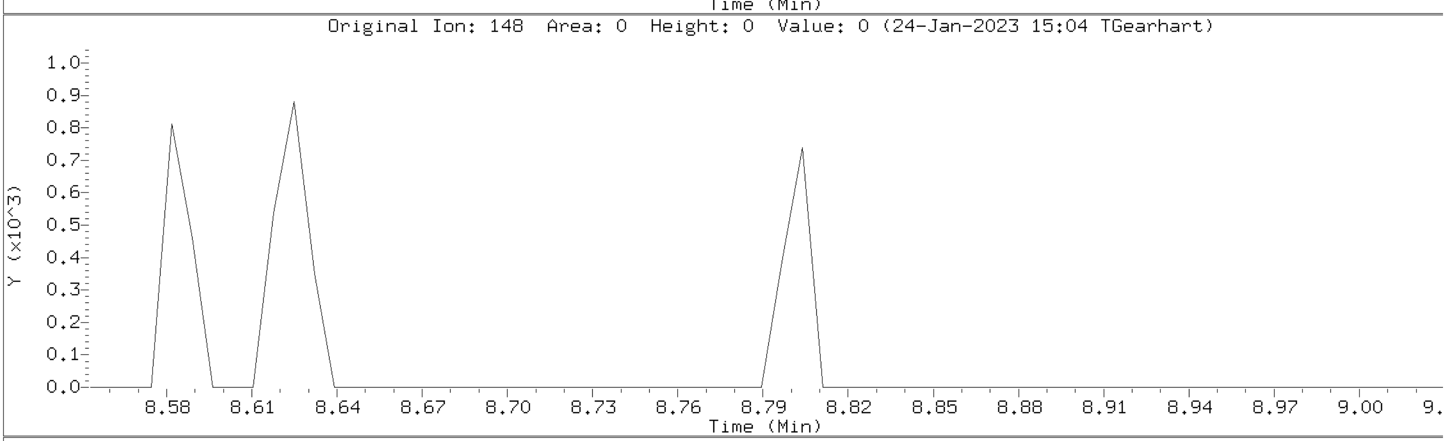
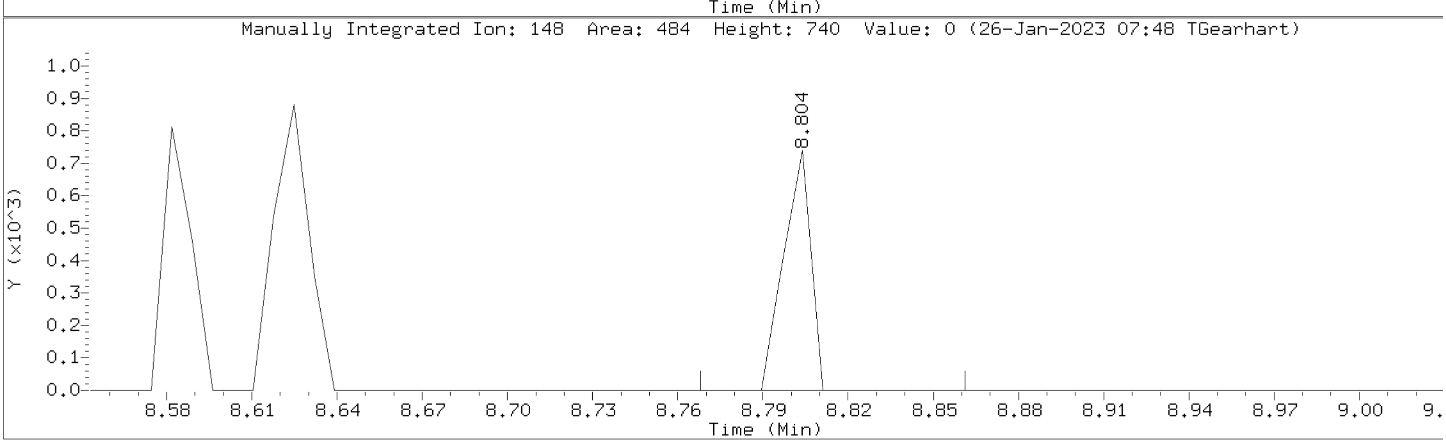
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichlorobenzene   Review Code: NI
CAS Number: 95-50-1









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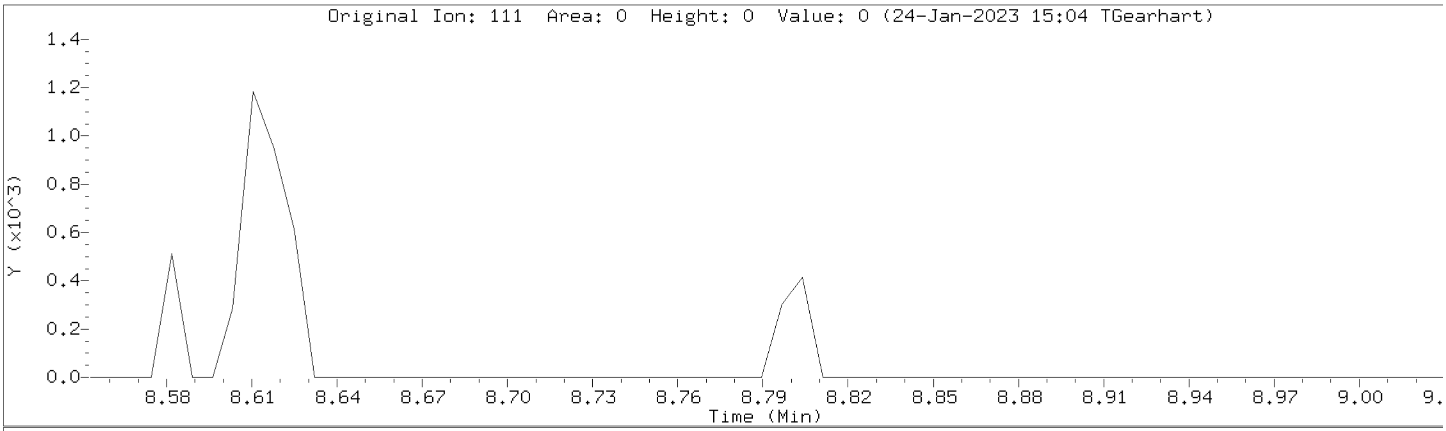

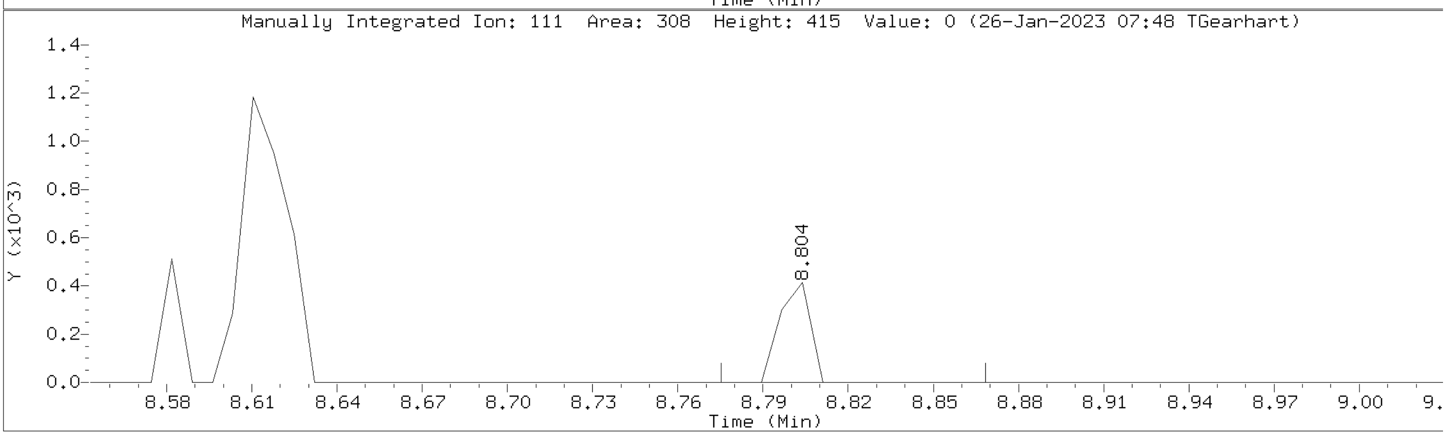

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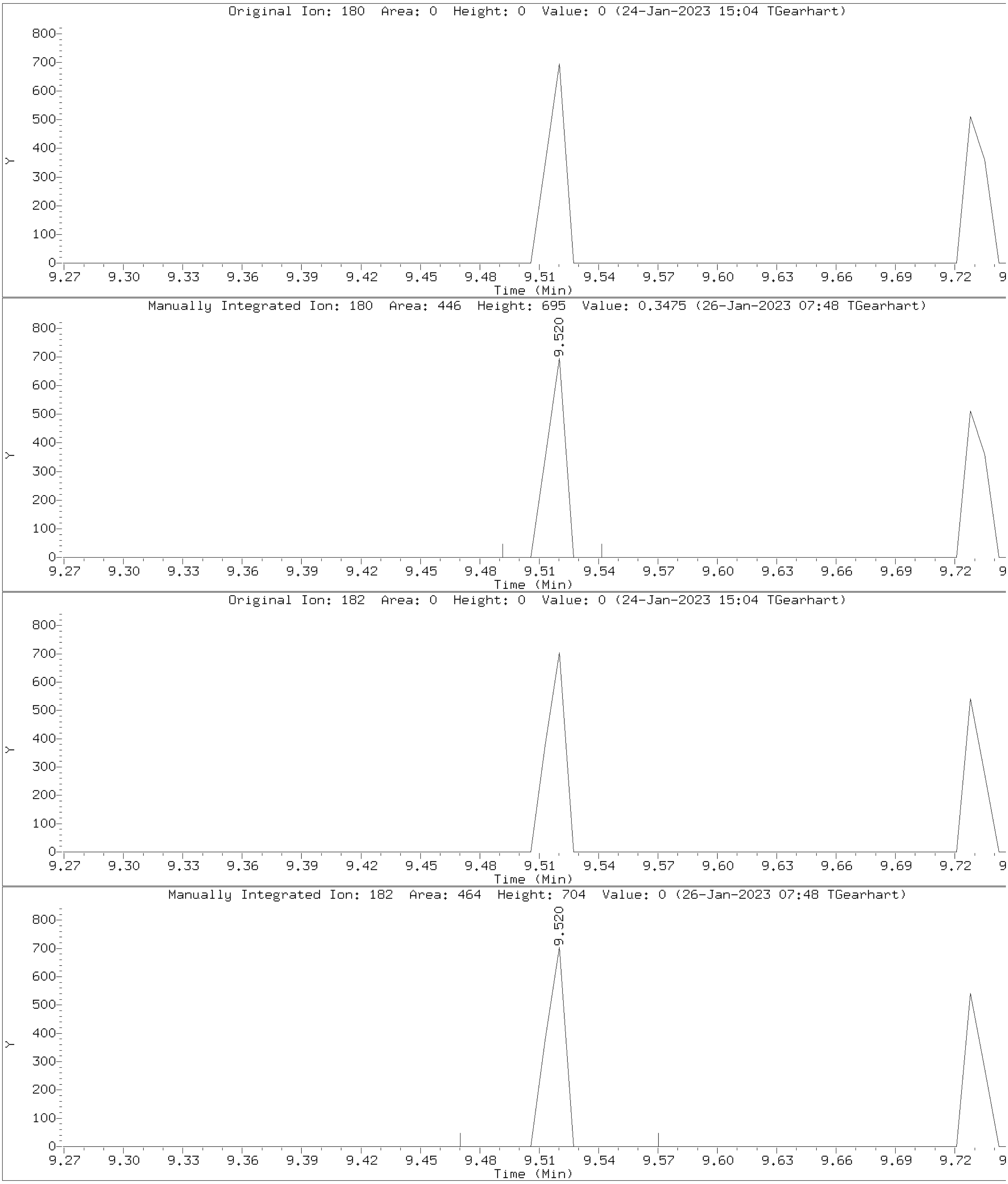
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,4-Trichlorobenzene   Review Code: NI
CAS Number: 120-82-1



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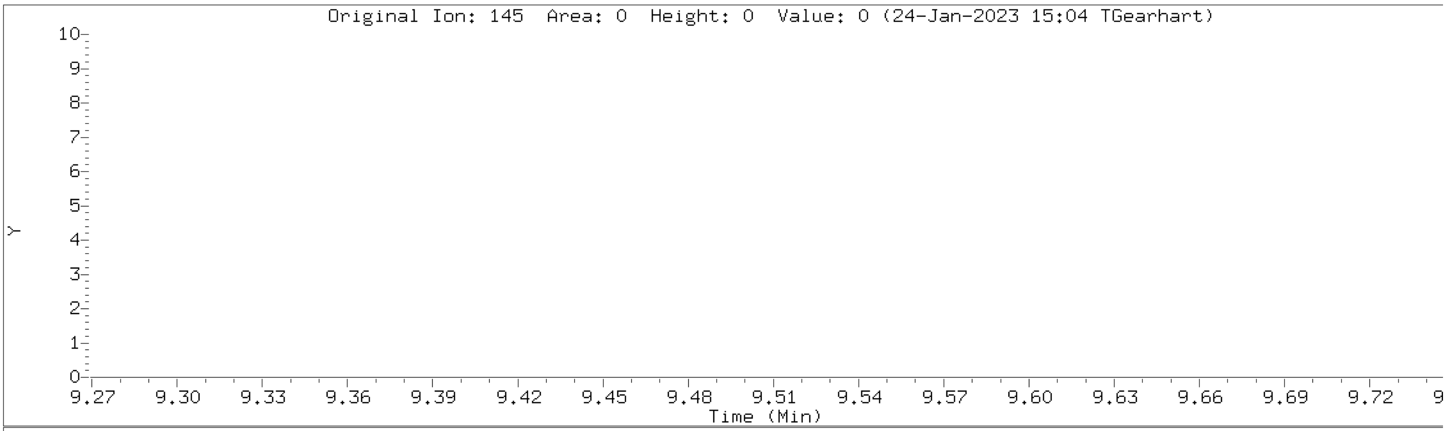
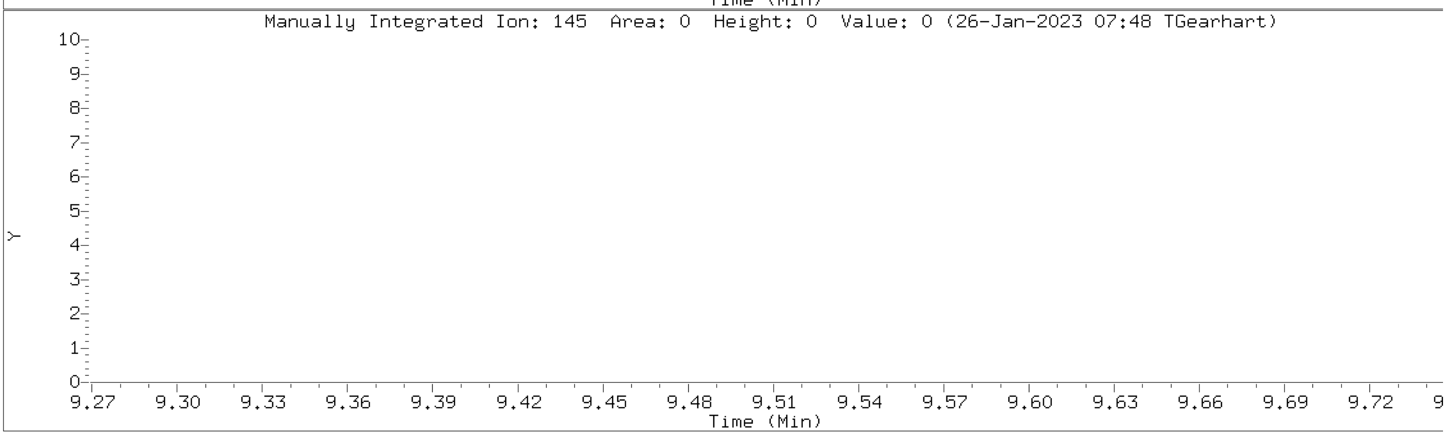
Lab Sample ID: 8260-CAL1





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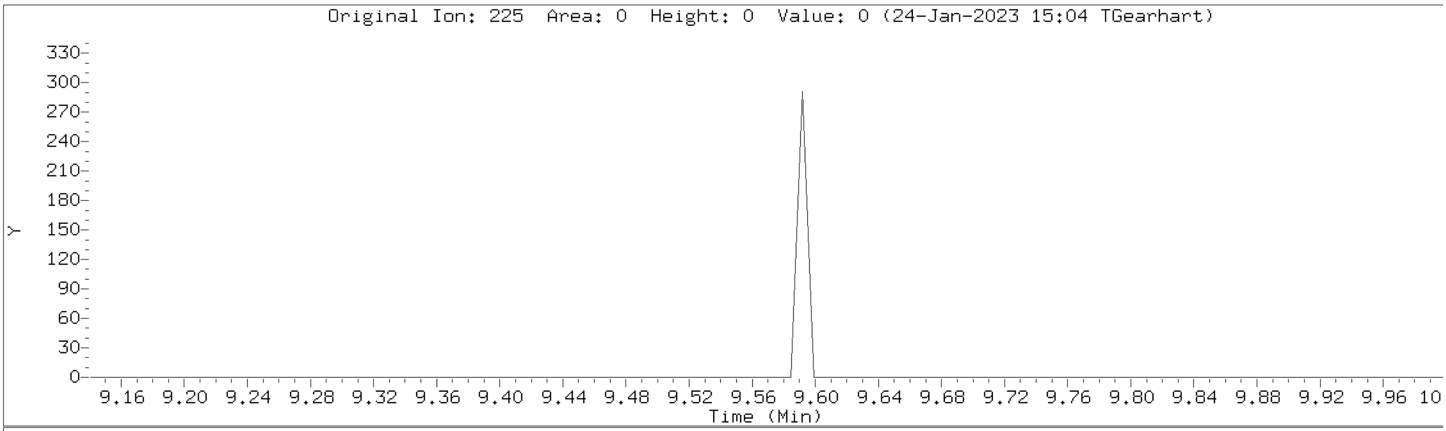
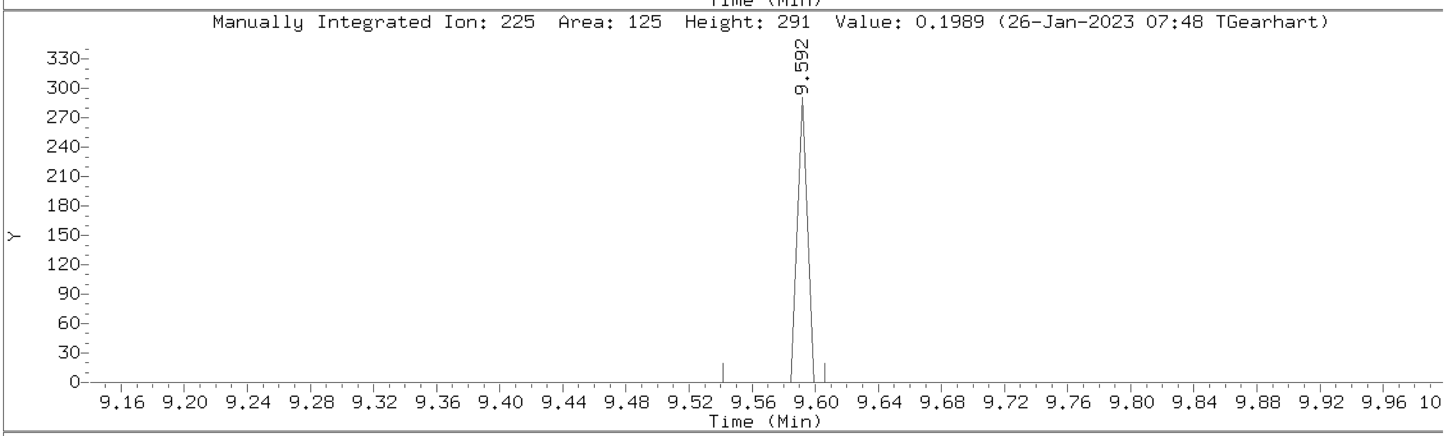
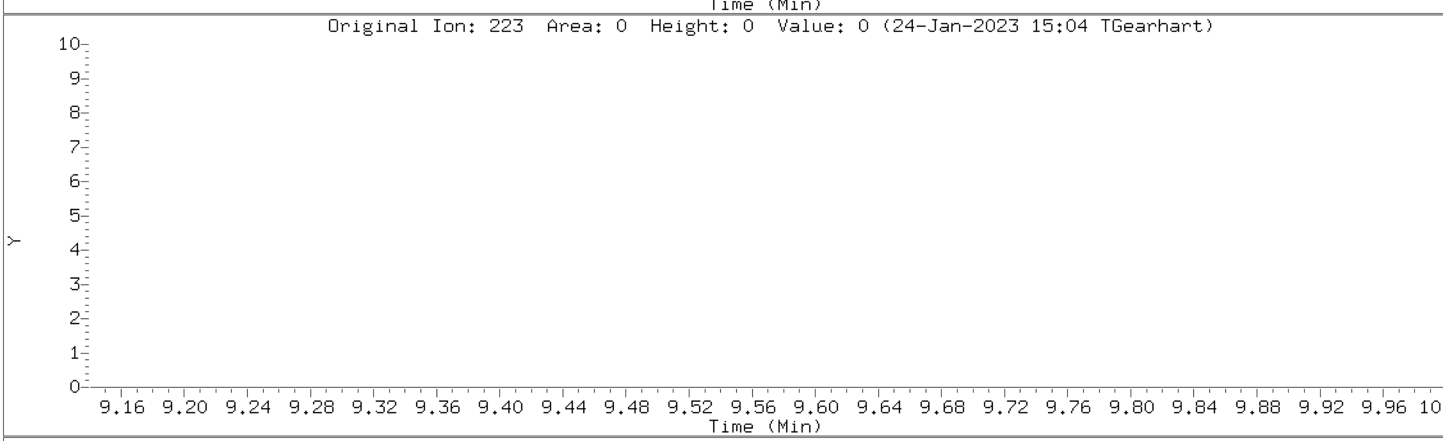
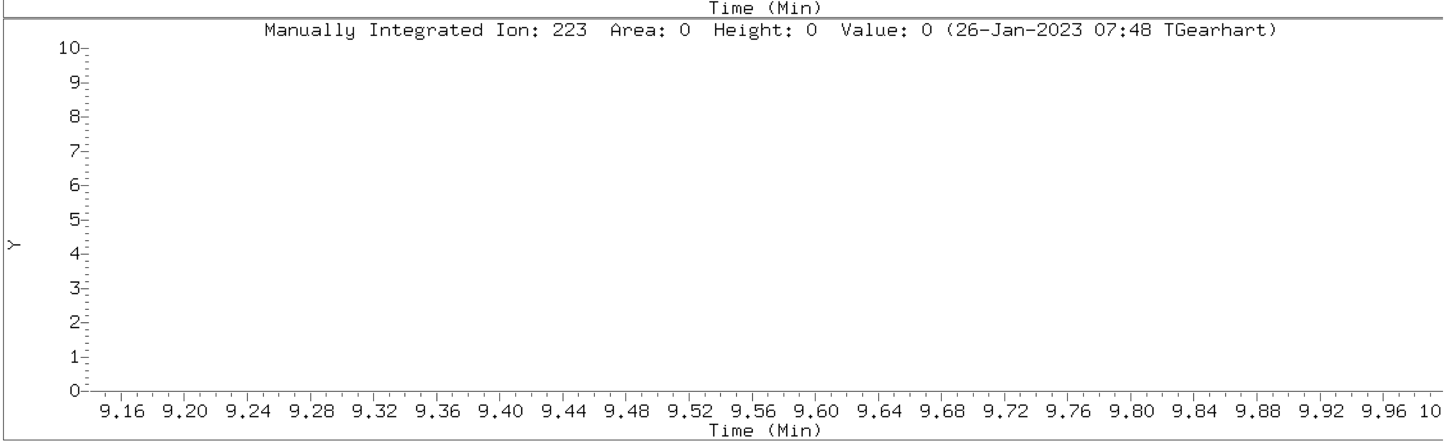
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Hexachlorobutadiene   Review Code: NI
CAS Number: 87-68-3









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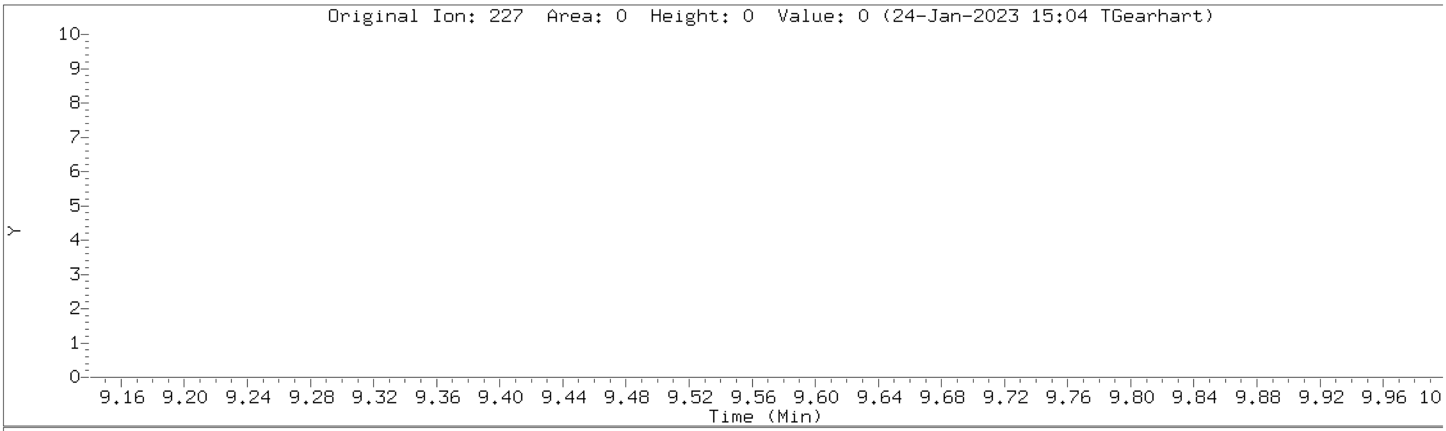

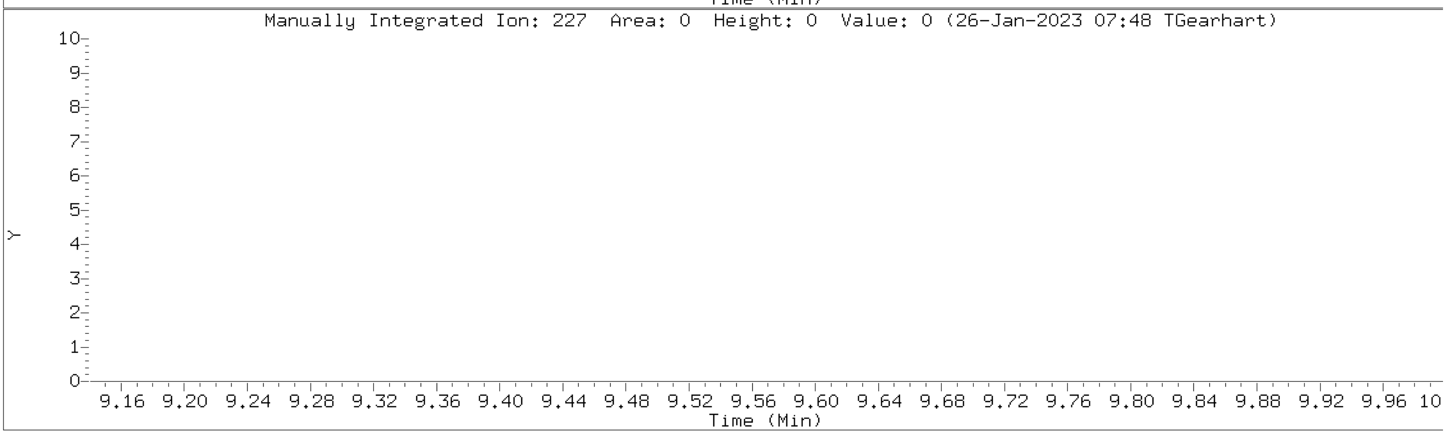

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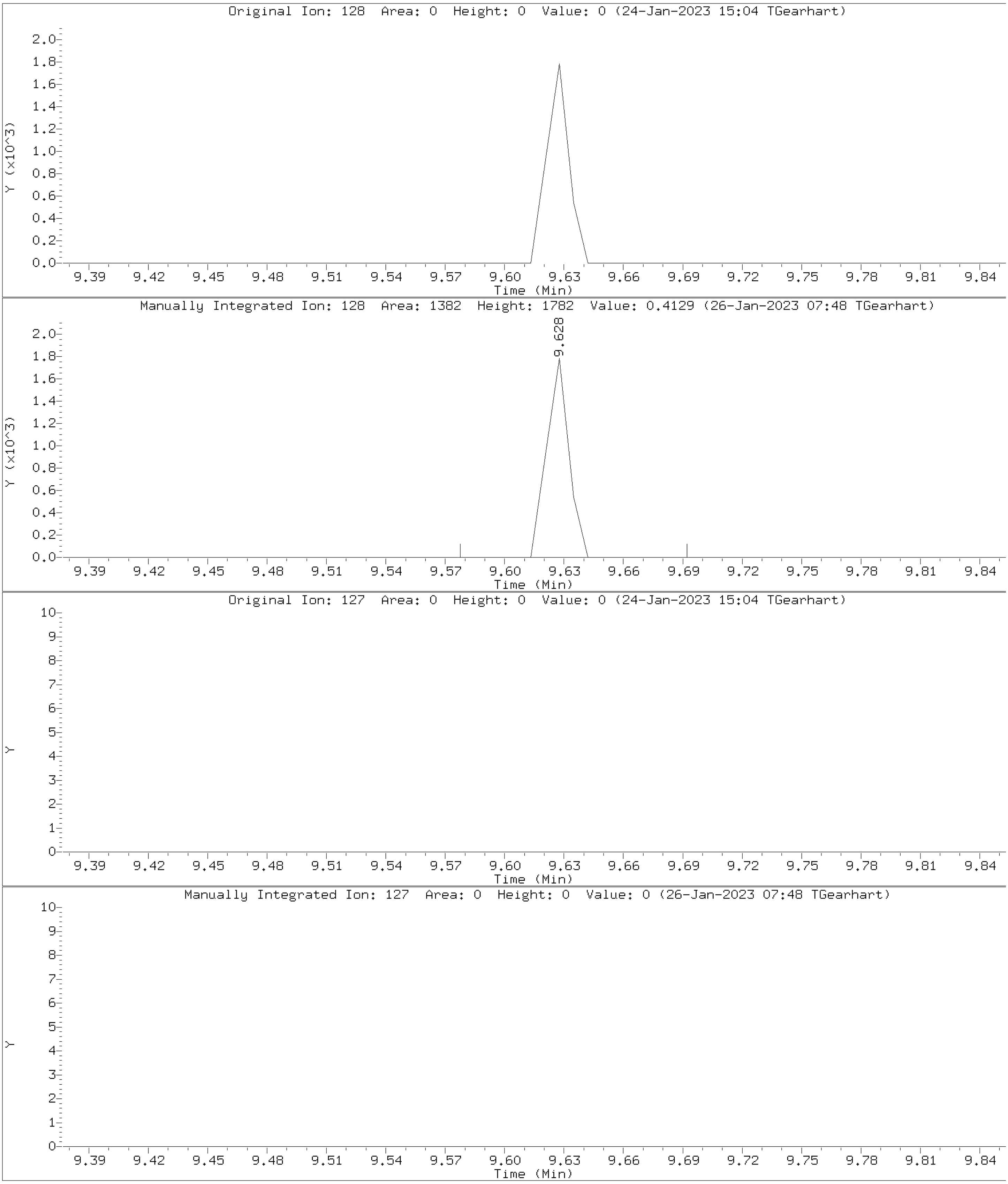
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Naphthalene   Review Code: NI
CAS Number: 91-20-3



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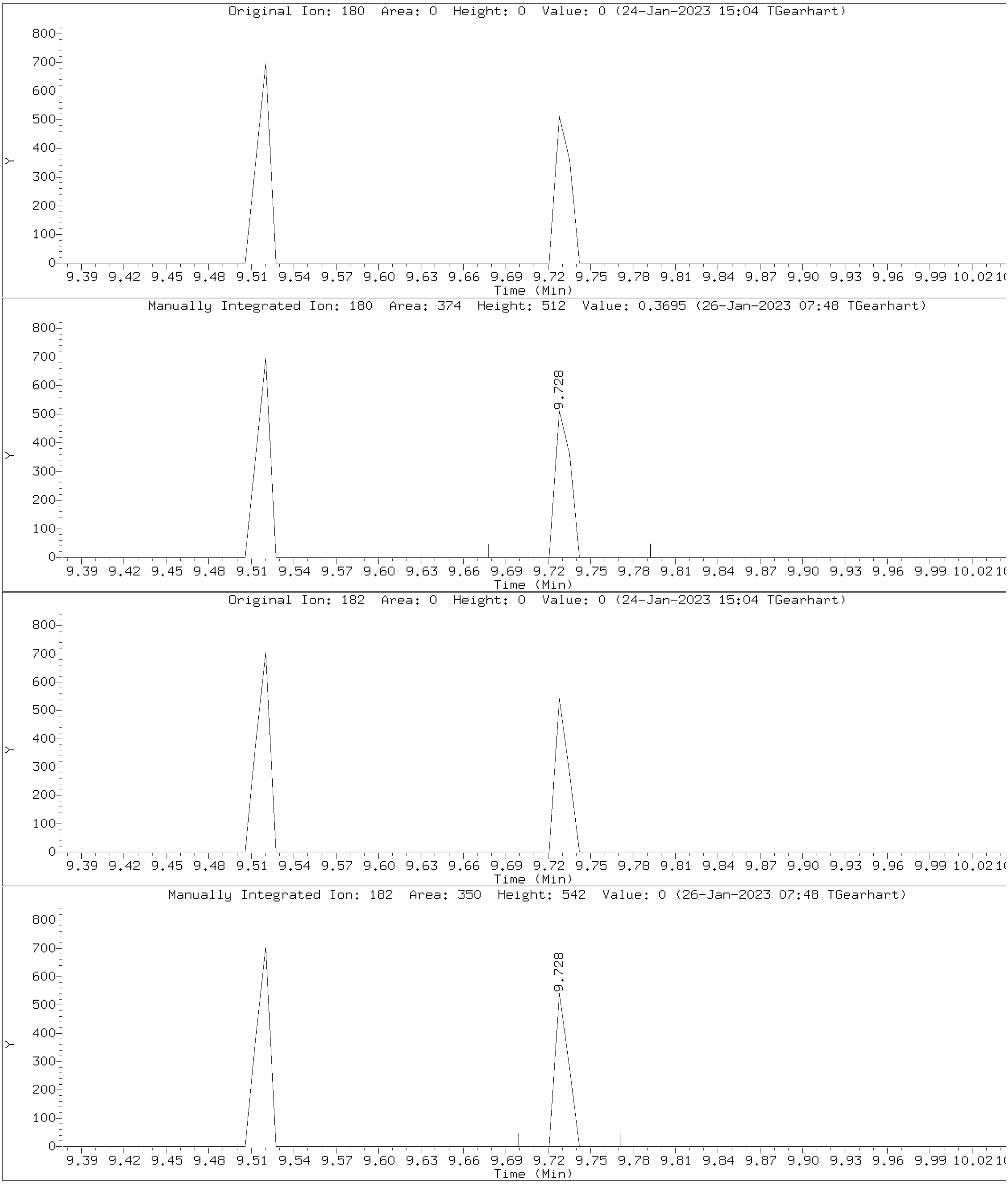
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,3-Trichlorobenzene   Review Code: NI
CAS Number: 87-61-6



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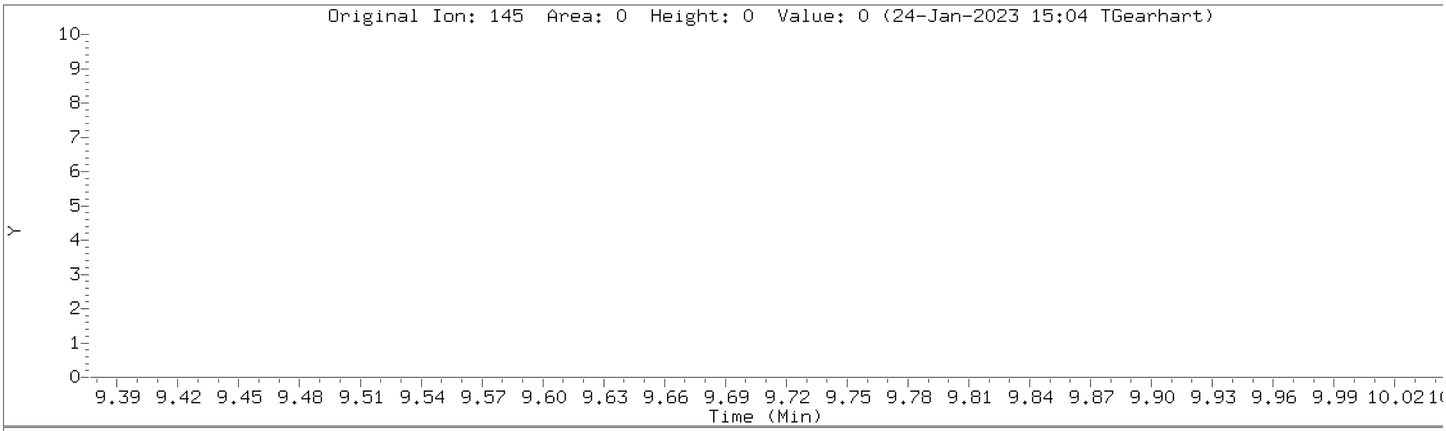

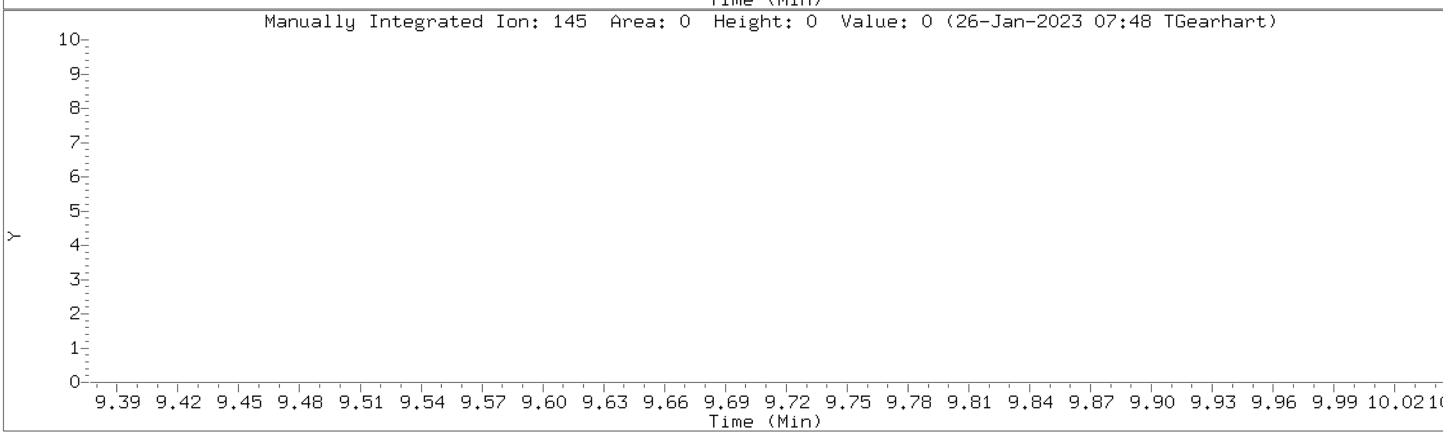

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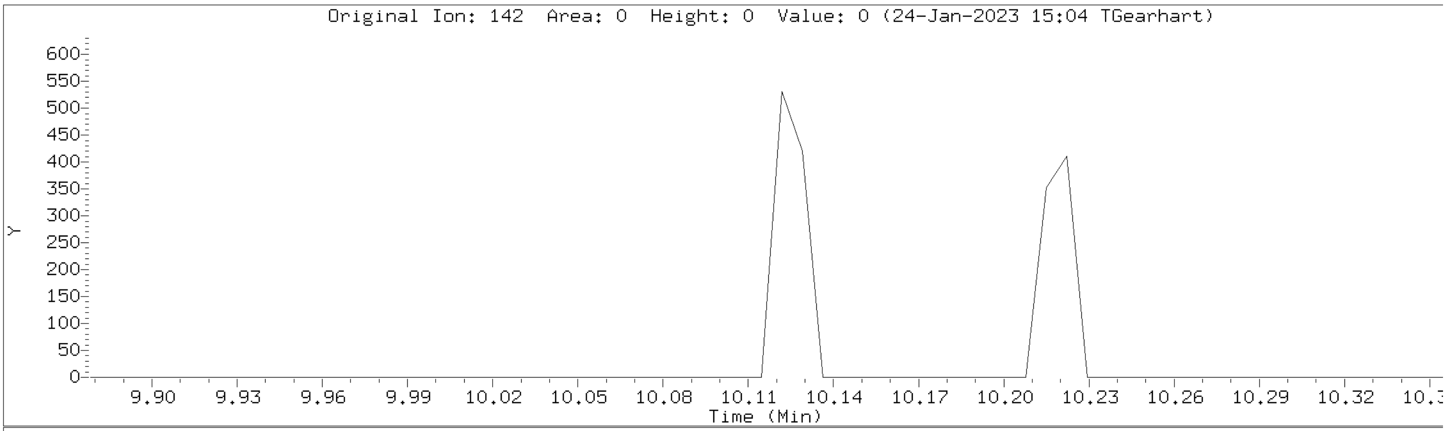
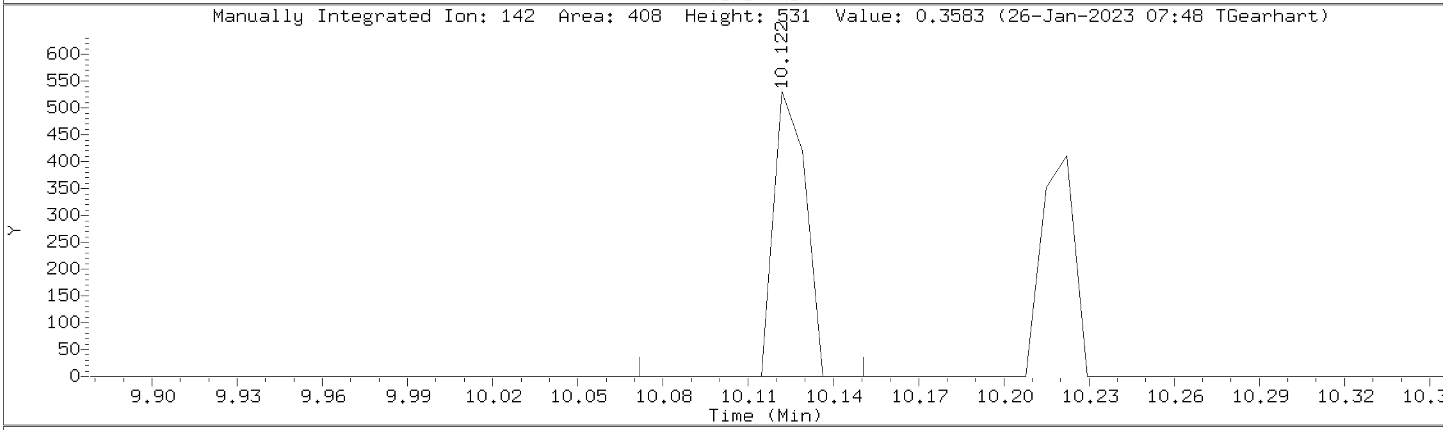
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 2,methyl-naphthalene   Review Code: NI
CAS Number:

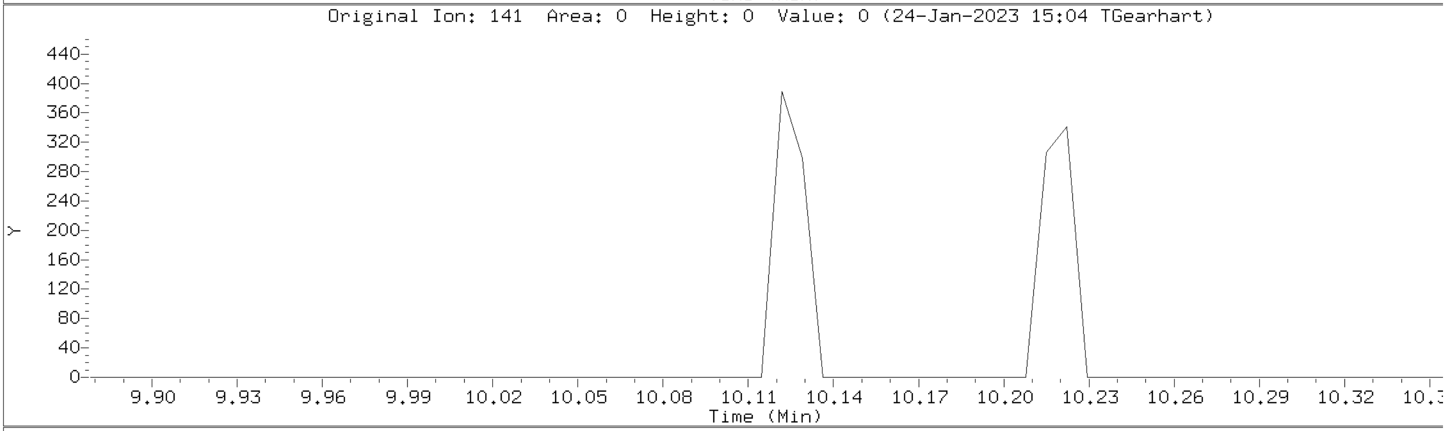
Original Ion: 142 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



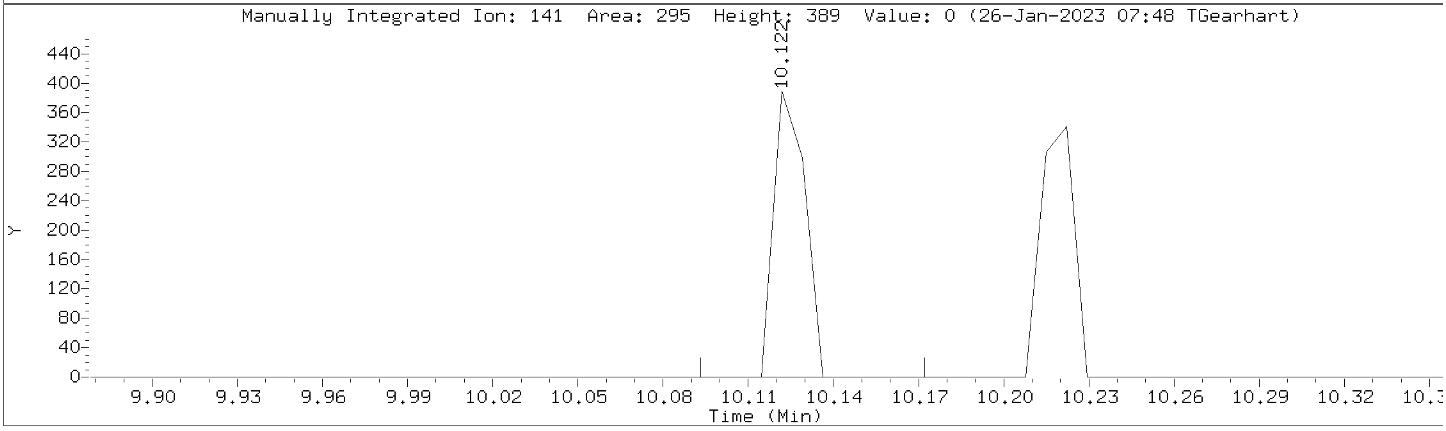
Manually Integrated Ion: 142 Area: 408 Height: 531 Value: 0.3583 (26-Jan-2023 07:48 TGearhart)



Original Ion: 141 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 141 Area: 295 Height: 389 Value: 0 (26-Jan-2023 07:48 TGearhart)



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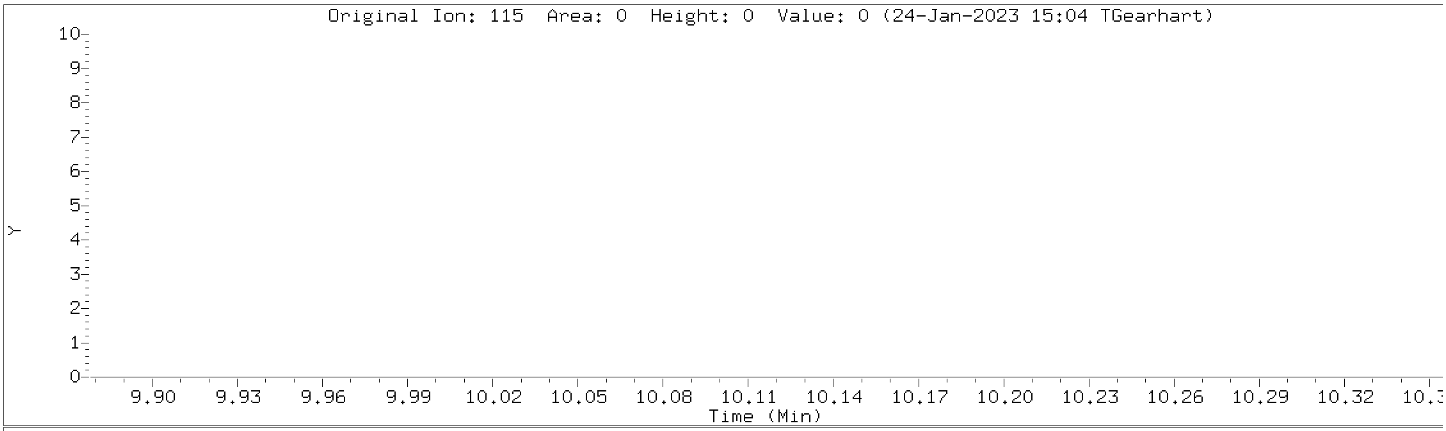
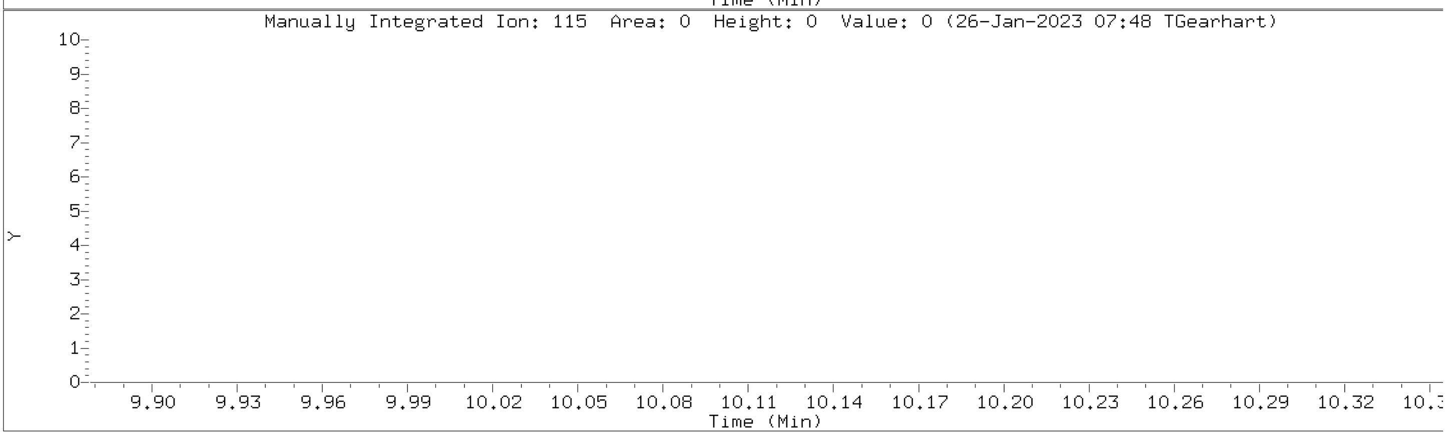
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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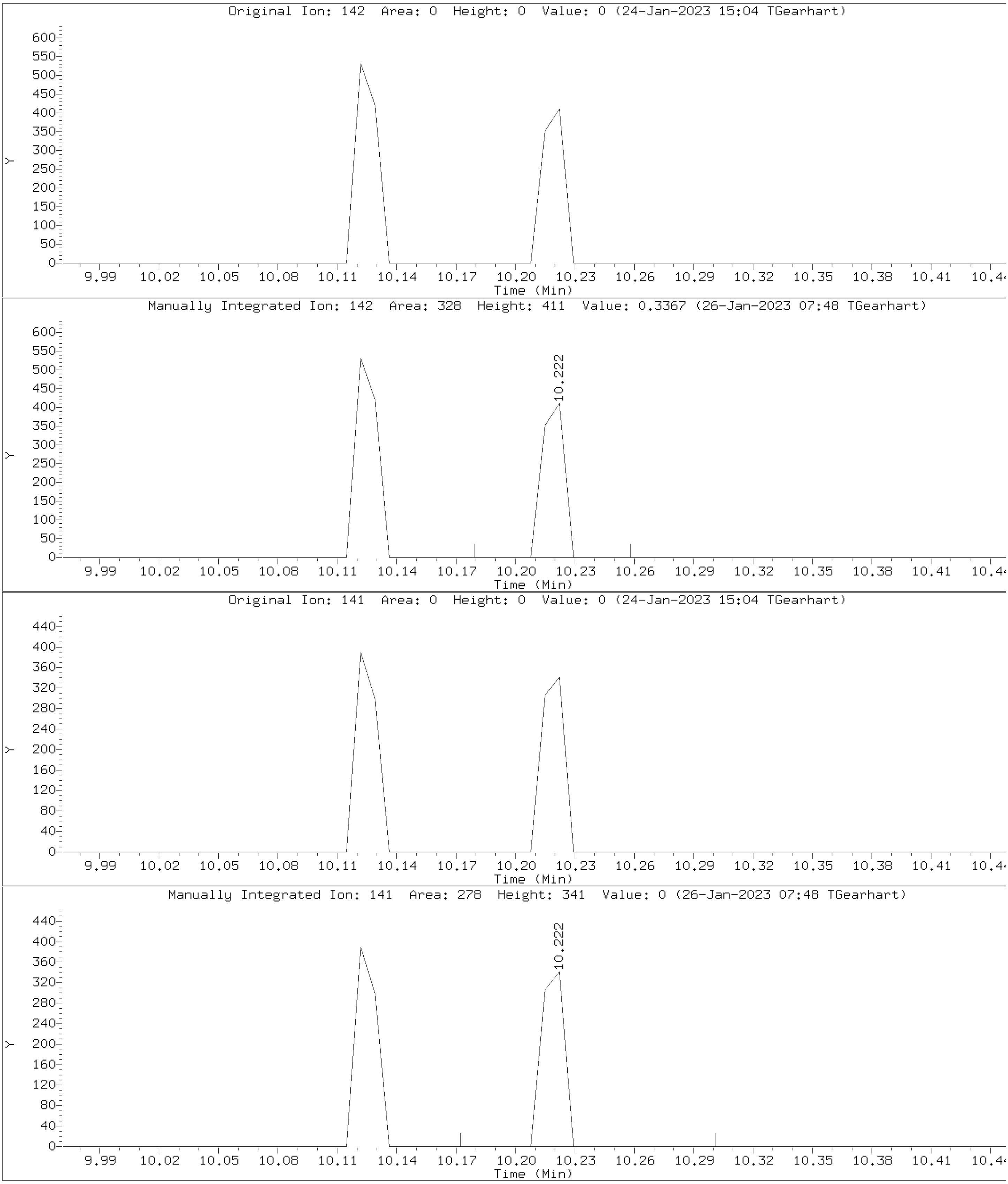
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1-Methylnaphthalene   Review Code: NI
CAS Number: 90-12-0



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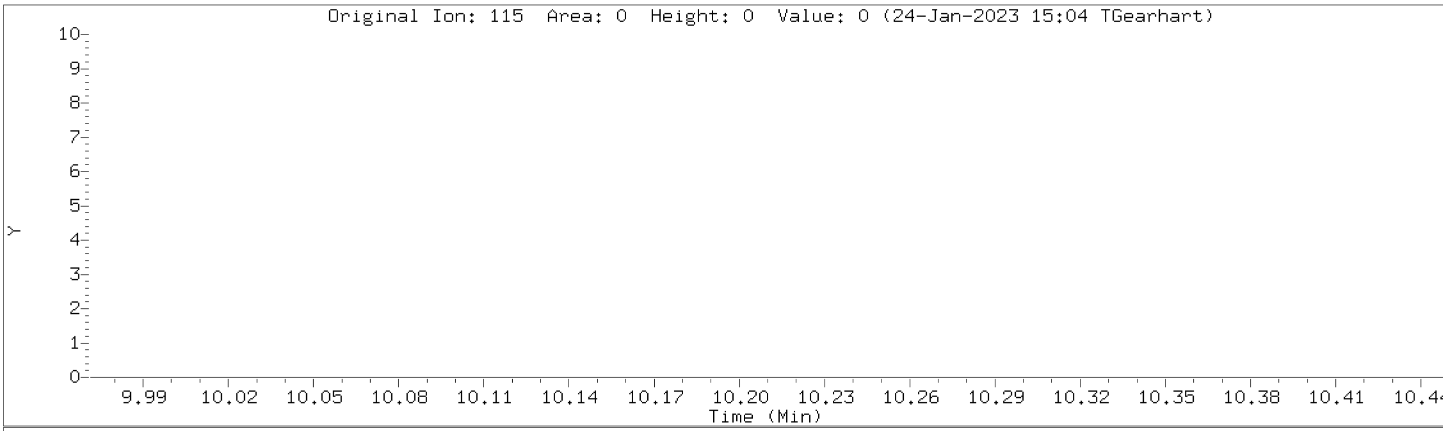
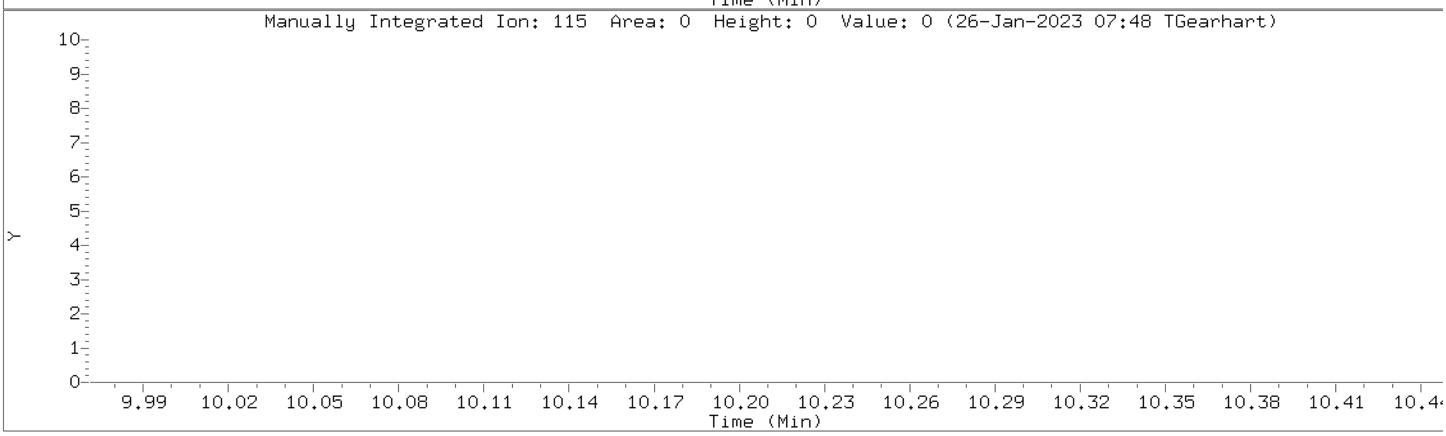
Lab Sample ID: 8260-CAL1





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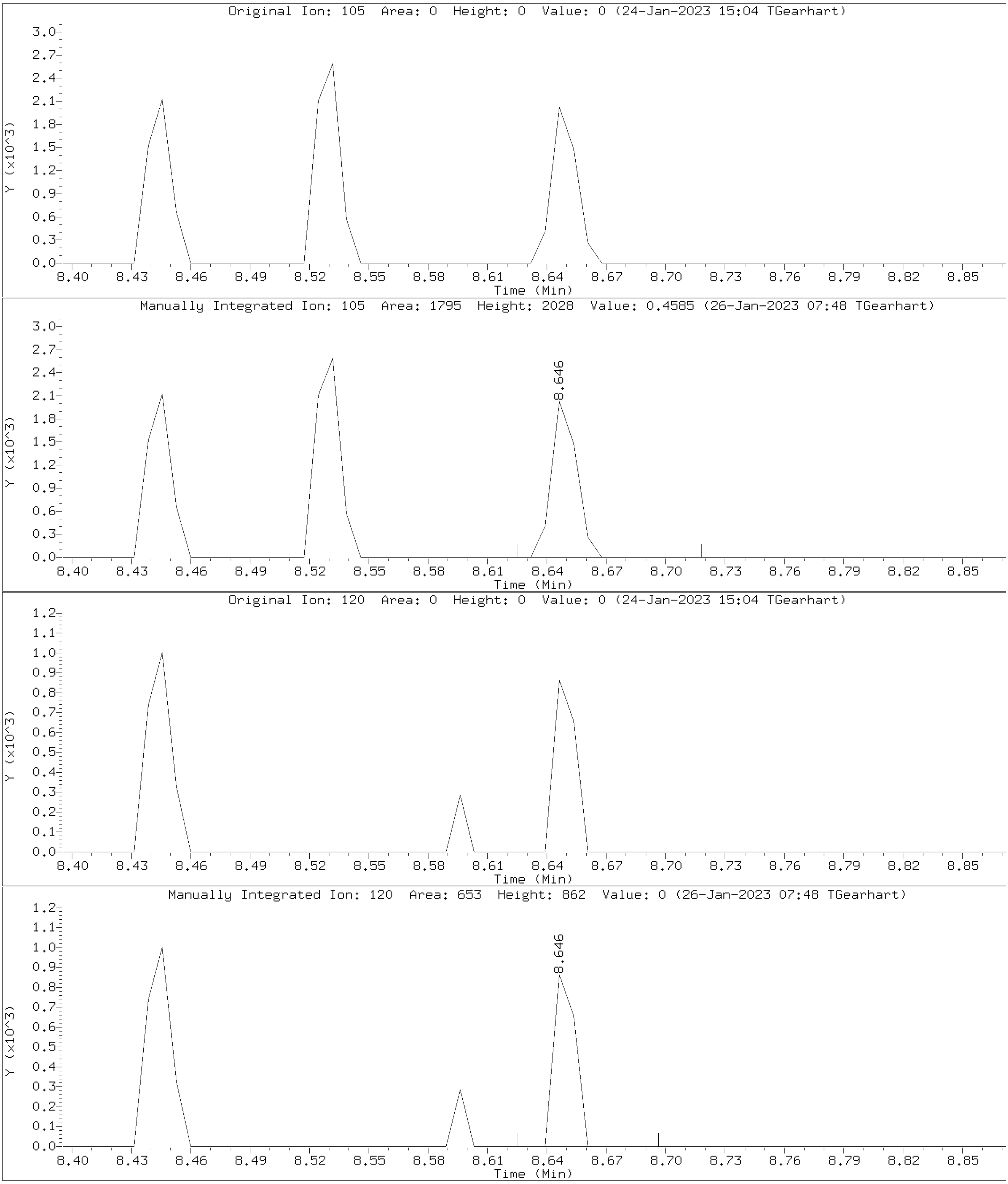
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,3-Trimethylbenzene   Review Code: NI
CAS Number: 526-73-8



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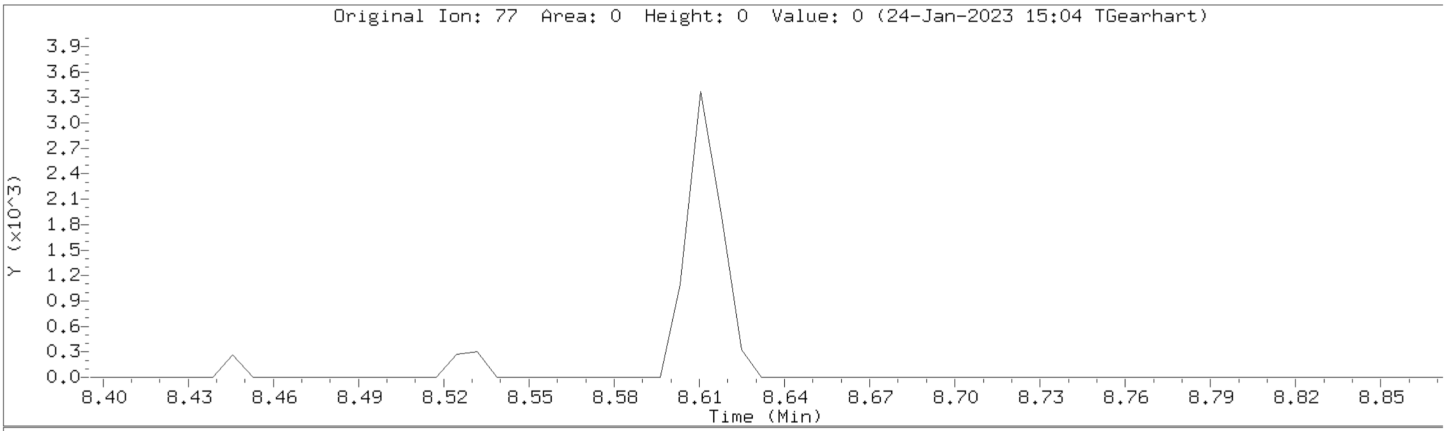
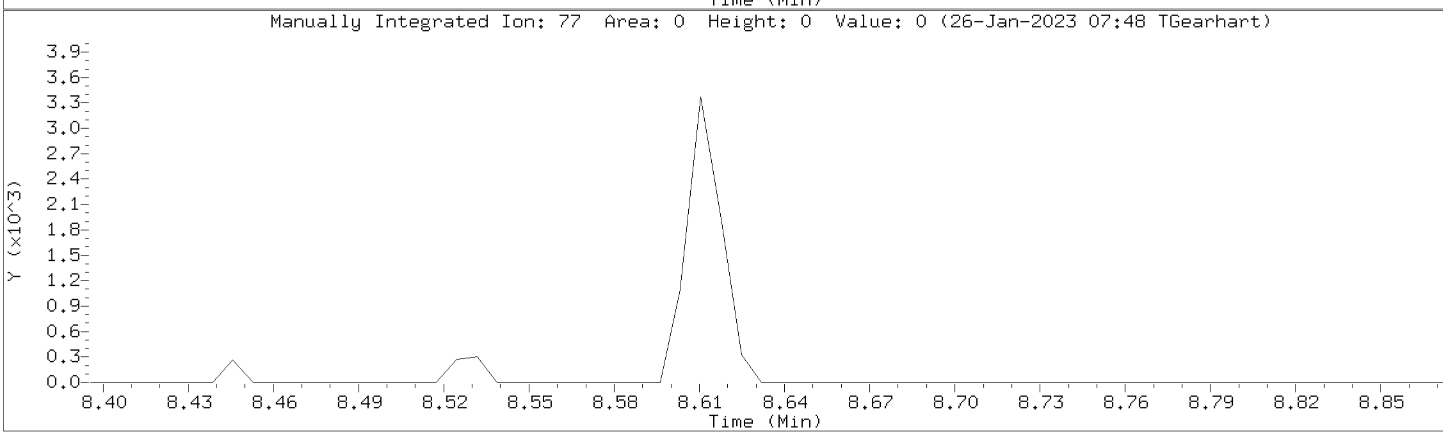
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1





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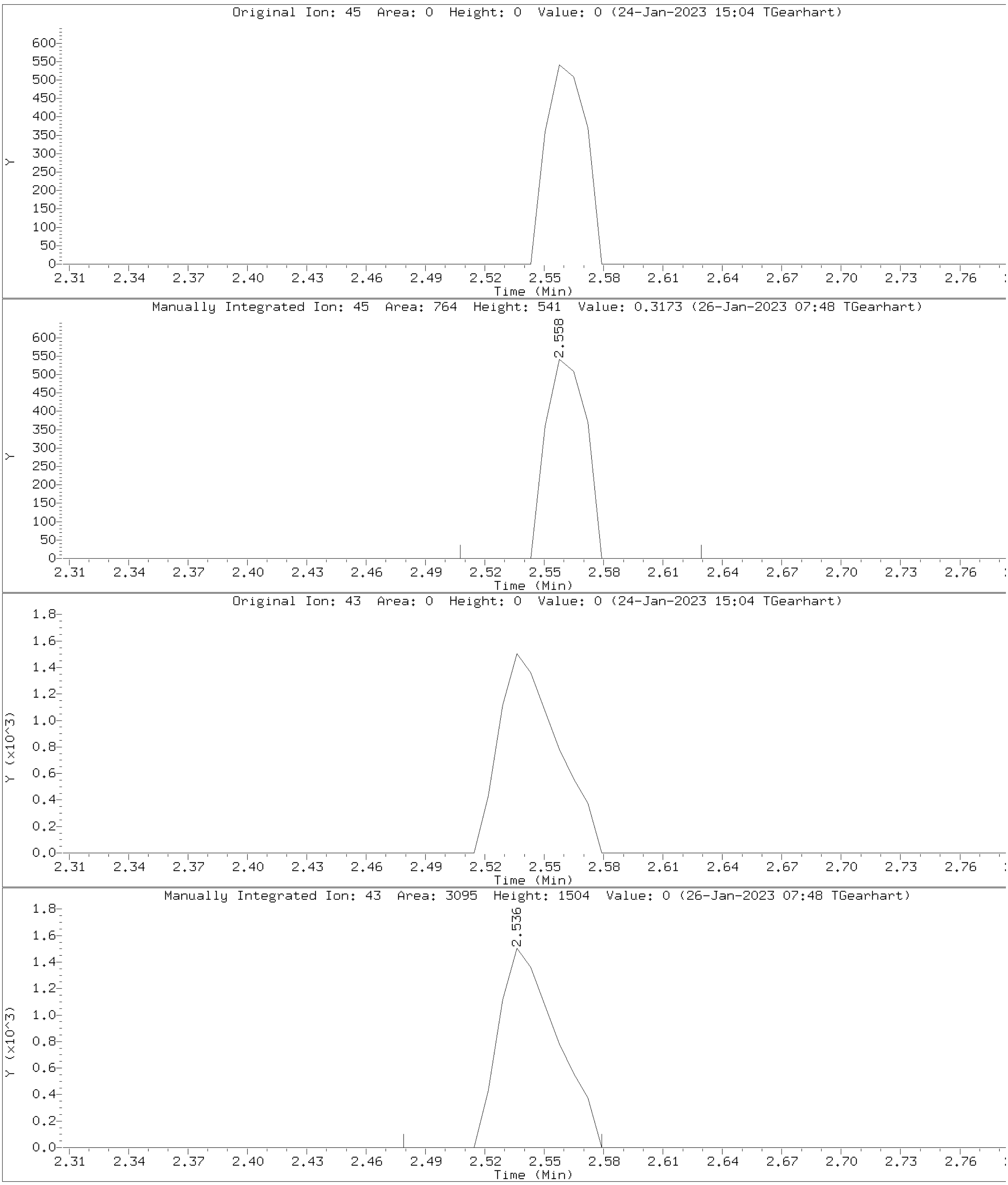
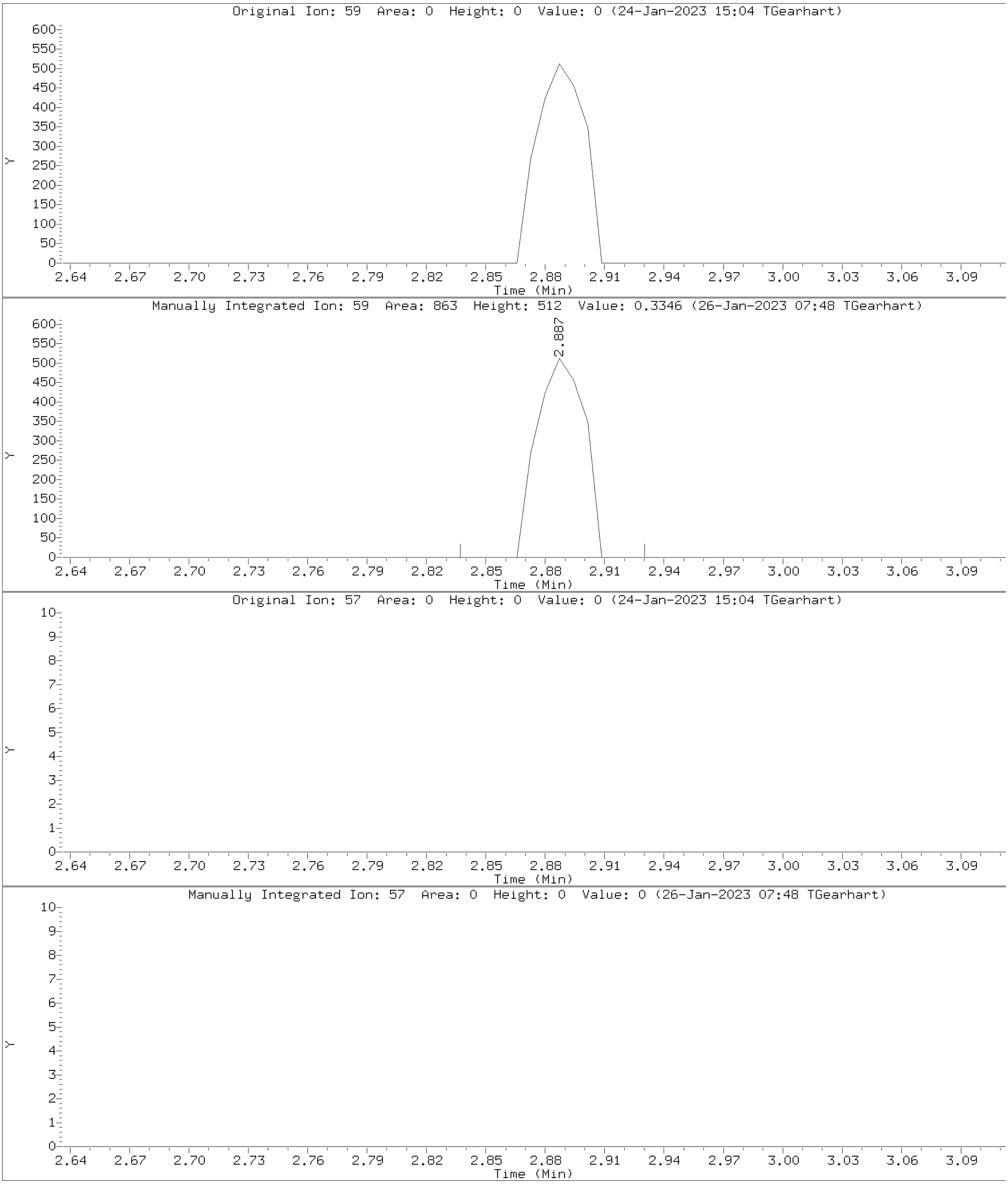
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Diisopropyl ether   Review Code: NI
CAS Number: 108-20-3



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a05cal1.d
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Ethyl-tert-butyl ether   Review Code: NI
CAS Number: 637-92-3



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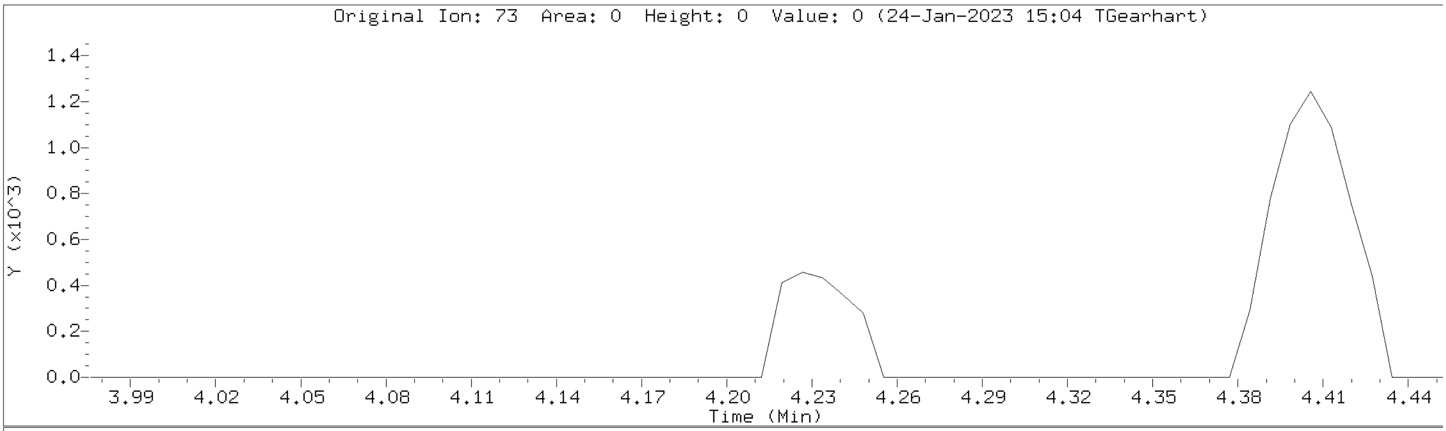
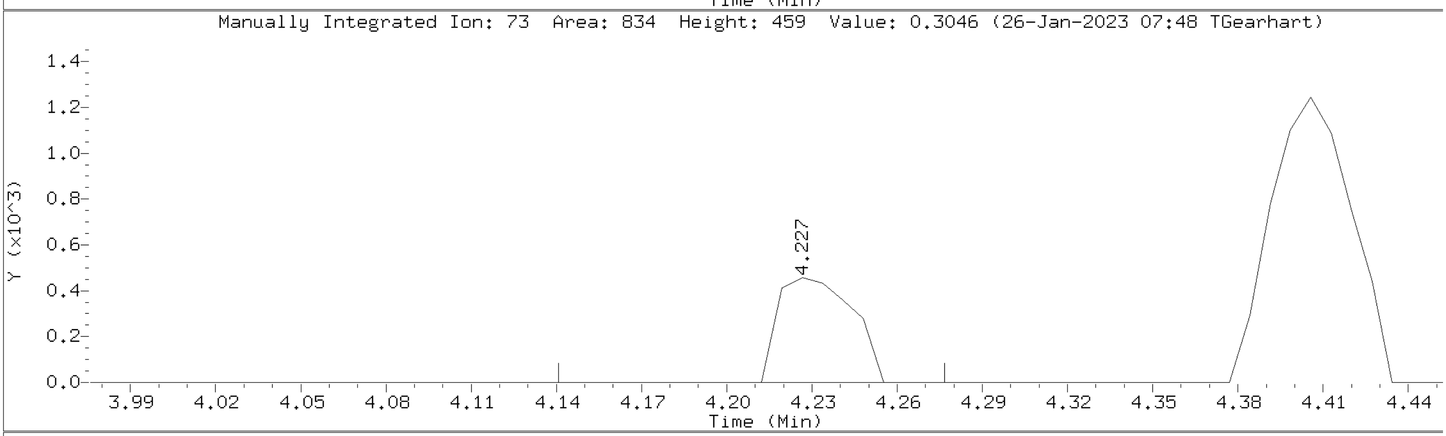
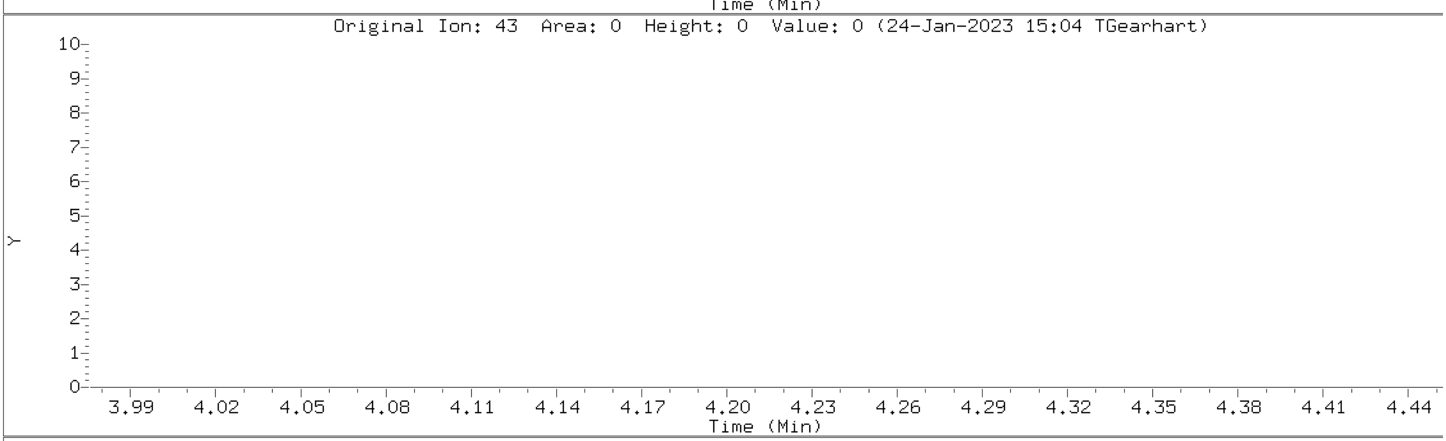
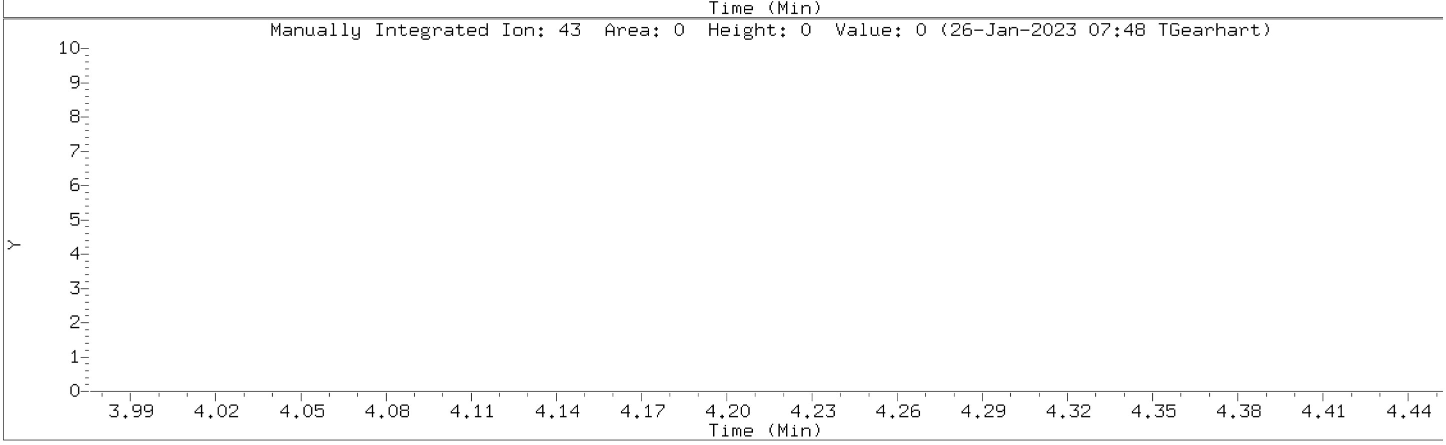
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: tert-Amylmethyl ether   Review Code: NI
CAS Number: 994-05-8









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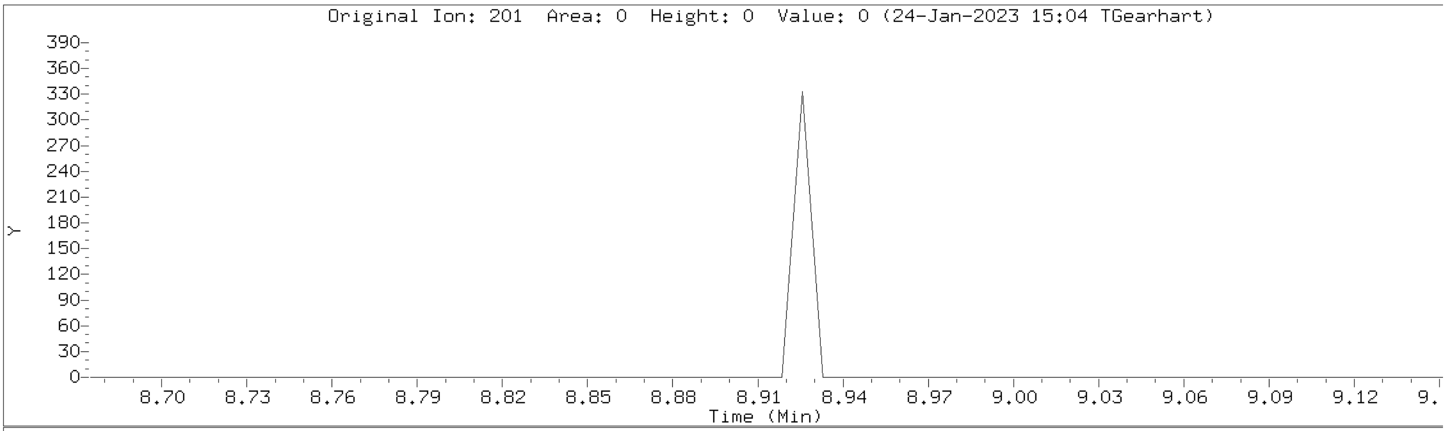
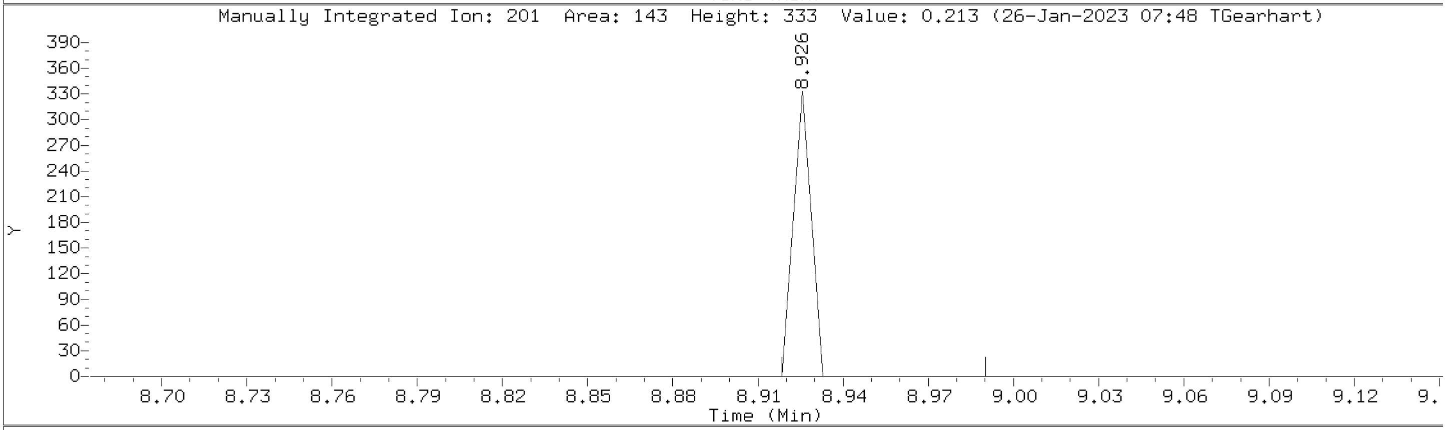
Injection Date: 24-JAN-2023 14:21
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL1

Compound: Hexachloroethane   Review Code: NI
CAS Number: 67-72-1

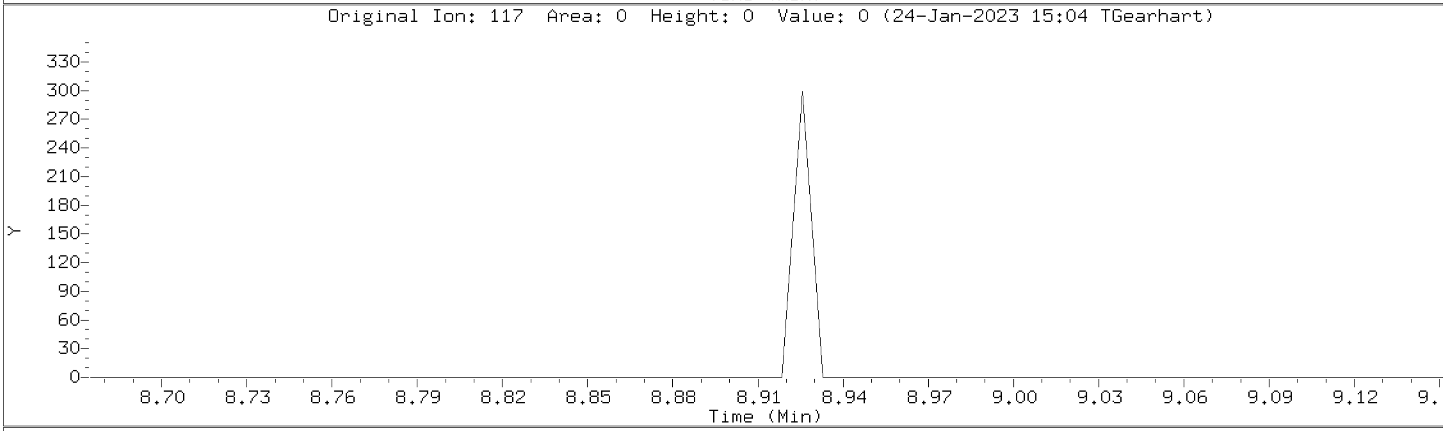
Original Ion: 201 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



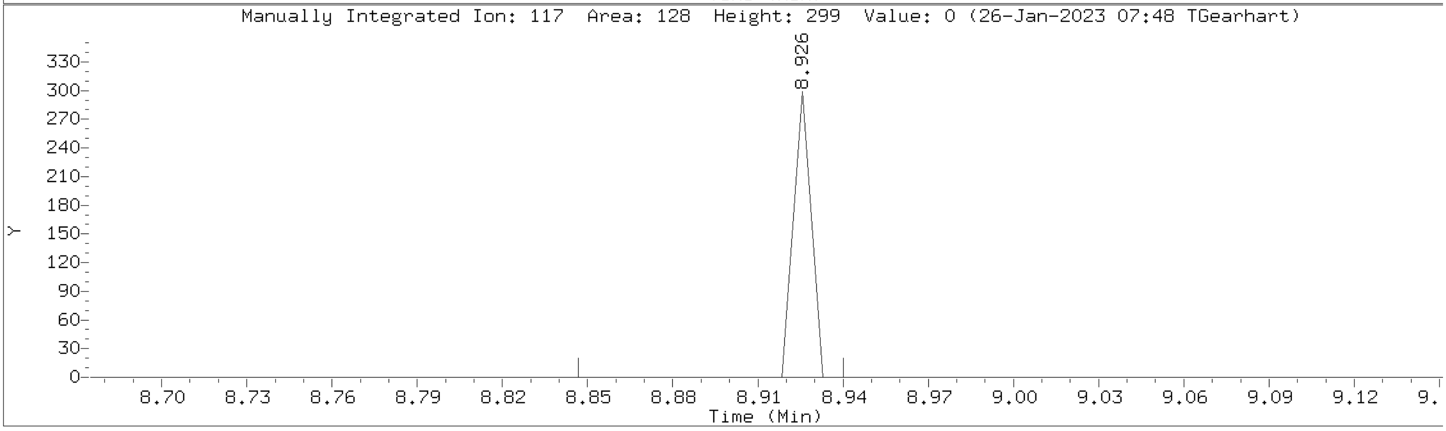
Manually Integrated Ion: 201 Area: 143 Height: 333 Value: 0.213 (26-Jan-2023 07:48 TGearhart)



Original Ion: 117 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 117 Area: 128 Height: 299 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a06cal2.d   Page 1
Report Date: 02-Feb-2023 19:53

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a06cal2.d
Lab Smp Id: 8260-CAL2   Client Smp ID: 8260-CAL2
Inj Date : 24-JAN-2023 14:50
Operator : tkg   Inst ID: 50mv2a.i
Smp Info : 8260-cal2,336619
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart   Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19   Cal File: a07cal3.d
Als bottle: 6   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	0.974	0.975	(0.221)	430	1.00000	0.389(M)	NI
2 Chloromethane	50	1.139	1.139	(0.259)	239	1.00000	0.679(M)	NI
3 Vinyl Chloride	62	1.117	1.117	(0.254)	311	1.00000	0.879(M)	WP
4 Bromomethane	94	1.275	1.275	(0.289)	123	1.00000	0.851(M)	NI
5 Chloroethane	64	1.325	1.325	(0.301)	266	1.00000	0.799(M)	NI
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	811	1.00000	0.780	
7 Diethyl ether	74	1.590	1.590	(0.361)	480	1.00000	0.900	
8 Acrolein	56	1.662	1.662	(0.377)	3494	20.0000	18.4	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	806	1.00000	0.843	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	657	1.00000	0.798	
11 Acetone	43	1.740	1.740	(0.395)	1643	5.00000	5.17(M)	NI
12 Iodomethane	142	1.819	1.819	(0.413)	616	1.00000	0.833(M)	NI
13 Carbon Disulfide	76	1.862	1.862	(0.423)	1953	1.00000	0.888(M)	NI
14 Acetonitrile	39	1.927	1.927	(0.437)	846	5.00000	5.60(M)	NI
15 allyl chloride	41	1.927	1.927	(0.437)	1420	1.00000	1.08	
16 Methyl Acetate	43	1.934	1.934	(0.439)	3896	5.00000	5.18	
17 Methylene Chloride	84	2.005	2.006	(0.455)	1292	1.00000	1.23(M)	NI
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	2.163	2.156	(0.491)	1471	5.00000	4.54	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	2389	1.00000	0.885	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	676	1.00000	0.718	
22 n-Hexane	57	2.392	2.392	(0.543)	938	1.00000	0.787(M)	NI
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	1263	1.00000	0.857(M)	NI

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.535	2.536	(0.576)	6955	4.00000	3.65	
25 Diisopropyl ether	45	2.564	2.557	(0.582)	2047	1.00000	0.856	
26 chloroprene	53	2.586	2.579	(0.587)	927	1.00000	0.730(M)	NI
27 Ethyl-tert-butyl ether	59	2.886	2.887	(0.655)	2373	1.00000	0.926(M)	NI
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	808	1.00000	0.772	
29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	964	1.00000	0.753(M)	NI
30 2-Butanone	43	3.037	3.037	(0.689)	2370	5.00000	4.21(M)	WP
31 Propionitrile	54	Compound Not Detected.						
32 Ethyl Acetate	88	Compound Not Detected.						
33 Methacrylonitrile	41	3.259	3.259	(0.740)	2490	5.00000	4.68	
34 Bromochloromethane	49	3.273	3.266	(0.743)	107	1.00000	0.726(M)	NI
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	1375	5.00000	4.38	
36 Chloroform	83	3.366	3.367	(0.764)	1520	1.00000	0.880	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.806)	55055	50.0000	49.8	
38 1,1,1-Trichloroethane	97	3.588	3.581	(0.815)	1146	1.00000	0.744(M)	NI
39 Cyclohexane	56	3.660	3.660	(0.831)	1049	1.00000	0.788	
40 Carbon Tetrachloride	117	3.803	3.803	(0.863)	983	1.00000	0.710(M)	NI
41 1,1-Dichloropropene	75	3.803	3.803	(0.863)	676	1.00000	0.587(M)	NI
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	4.061	4.061	(0.922)	3340	1.00000	0.903(M)	NI
44 1,2-Dichloroethane	62	4.083	4.076	(0.927)	1130	1.00000	0.879(M)	NI
45 2,2,4-Trimethylpentane	57	4.405	4.405	(1.000)	6579	1.00000	1.19	
46 tert-Amylmethyl ether	73	4.233	4.226	(0.961)	2294	1.00000	0.843(M)	NI
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	203887	50.0000		
48 Trichloroethene	95	4.835	4.835	(1.098)	757	1.00000	0.743	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	872	1.00000	0.769(M)	NI
50 1,2-Dichloropropane	63	5.078	5.079	(1.153)	644	1.00000	0.764(M)	NI
51 Dibromomethane	93	5.200	5.200	(1.180)	400	1.00000	0.661	
52 1,4-Dioxane	88	Compound Not Detected.						
53 Methyl methacrylate	69	5.257	5.258	(1.193)	453	1.00000	0.595(M)	NI
54 Bromodichloromethane	83	5.386	5.387	(1.223)	832	1.00000	0.687(M)	NI
55 2-Chloroethyl vinyl ether	63	5.737	5.738	(0.785)	2790	5.00000	4.45	
56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	1068	1.00000	0.739(M)	NI
57 4-Methyl-2-Pentanone	43	6.045	6.046	(0.827)	4804	5.00000	4.71	
$ 58 Toluene-d8	98	6.131	6.131	(0.839)	200872	50.0000	50.3	
59 Toluene	91	6.203	6.203	(0.849)	4013	1.00000	0.921	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	1023	1.00000	0.752(M)	WP
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	1031	1.00000	0.786(M)	NI
62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	541	1.00000	0.761	
63 Tetrachloroethene	166	6.704	6.697	(0.918)	1083	1.00000	0.808	
64 1,3-Dichloropropane	76	6.726	6.719	(0.921)	1257	1.00000	0.869	
65 2-Hexanone	43	6.812	6.812	(0.932)	3480	5.00000	4.54	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	767	1.00000	0.712	
67 1,2-Dibromoethane	107	6.969	6.970	(0.954)	888	1.00000	0.934	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	156982	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	2812	1.00000	0.940(M)	NI
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	813	1.00000	0.769(M)	NI
71 Ethylbenzene	106	7.406	7.407	(1.014)	1463	1.00000	0.920	
72 m&p-Xylene	106	7.485	7.485	(1.025)	1827	1.00000	0.920	
73 o-Xylene	106	7.722	7.722	(1.057)	1700	1.00000	0.900	
74 Styrene	104	7.736	7.736	(1.059)	2883	1.00000	0.893	
75 Bromoform	173	7.836	7.836	(0.910)	494	1.00000	1.32(M)	NI
76 Isopropylbenzene	105	7.936	7.937	(1.086)	4849	1.00000	0.953	
$ 77 4-Bromofluorobenzene	95	8.022	8.015	(1.098)	75256	50.0000	49.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	1722	1.00000	0.964	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	1107	1.00000	0.899(M)	NI
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	333	1.00000	0.744(M)	NI
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	160	1.00000	0.735(M)	NI
82 n-Propylbenzene	91	8.159	8.159	(0.948)	5410	1.00000	0.960	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	3118	1.00000	0.953	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	3821	1.00000	0.928	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	1002	1.00000	0.811	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	4017	1.00000	0.948(M)	WP
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	4001	1.00000	0.950	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	4760	1.00000	0.937	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	2441	1.00000	1.00(M)	WP
90 p-Isopropyltoluene	119	8.595	8.596	(0.998)	4080	1.00000	0.908(M)	WP
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	84531	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	2219	1.00000	0.926	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	3802	1.00000	0.962(M)	WP
94 n-Butylbenzene	91	8.789	8.789	(1.021)	3349	1.00000	0.933(M)	NI
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	1990	1.00000	0.916(M)	NI
96 Hexachloroethane	201	8.925	8.925	(1.037)	575	1.00000	0.848(M)	NI
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	148	1.00000	1.06(M)	NI
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	1187	1.00000	0.916(M)	NI
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	446	1.00000	0.703(M)	NI
100 Naphthalene	128	9.627	9.627	(1.118)	3133	1.00000	0.927	
101 1,2,3-Trichlorobenzene	180	9.734	9.727	(1.131)	813	1.00000	0.796	
102 2,methyl-naphthalene	142	10.128	10.129	(1.176)	902	1.00000	0.784(M)	NI
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	835	1.00000	0.849(M)	NI

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.
:

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a06cal2.d

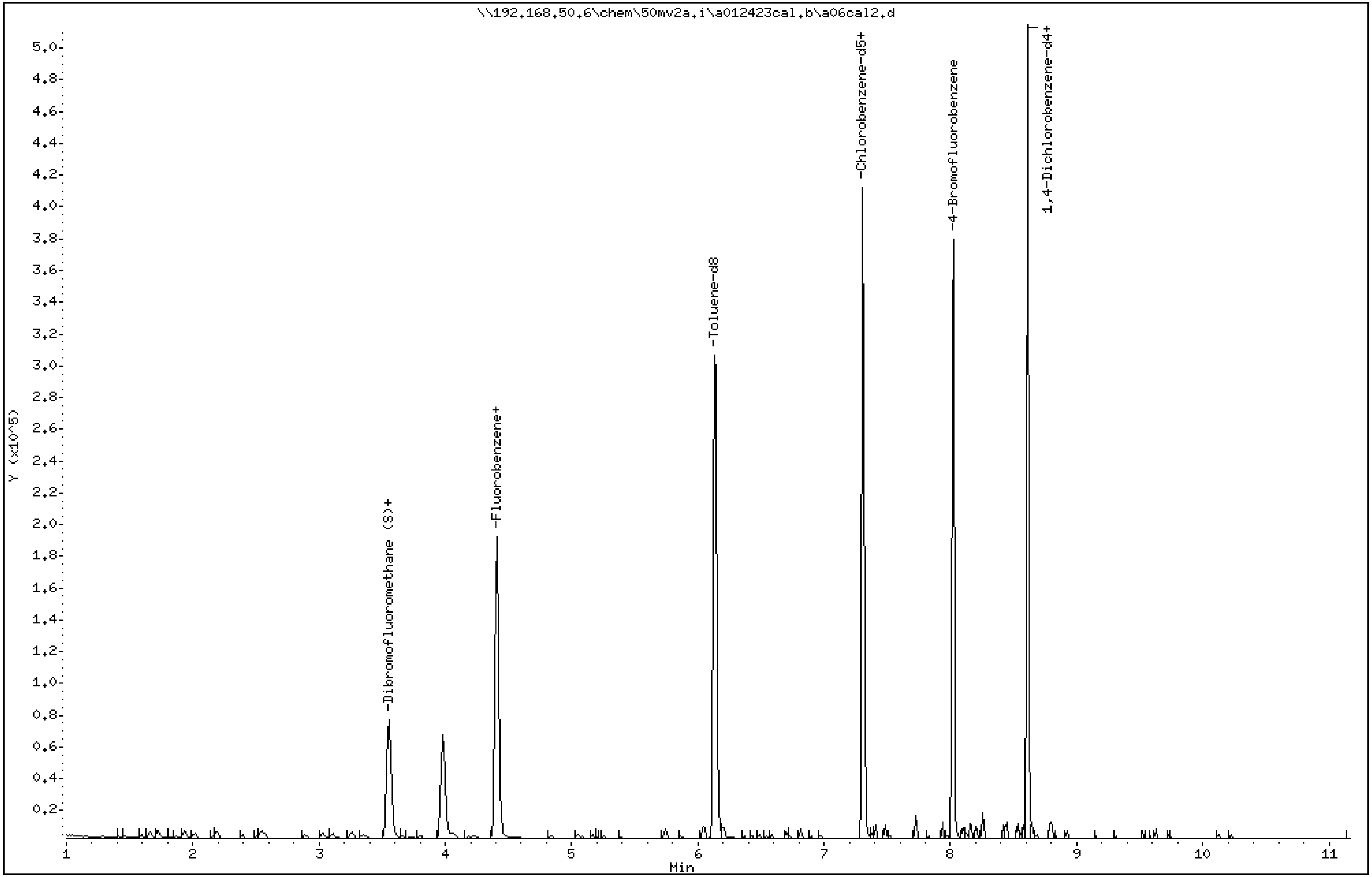
Date : 24-JAN-2023 14:50

Client ID: 8260-CAL2 Instrument: 50mv2a.i

Sample Info: 8260-CAL2,336619

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18



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Date : 24-JAN-2023 14:50

Client ID: 8260-CAL2

Instrument: 50mv2a.i

Sample Info: 8260-CAL2,336619

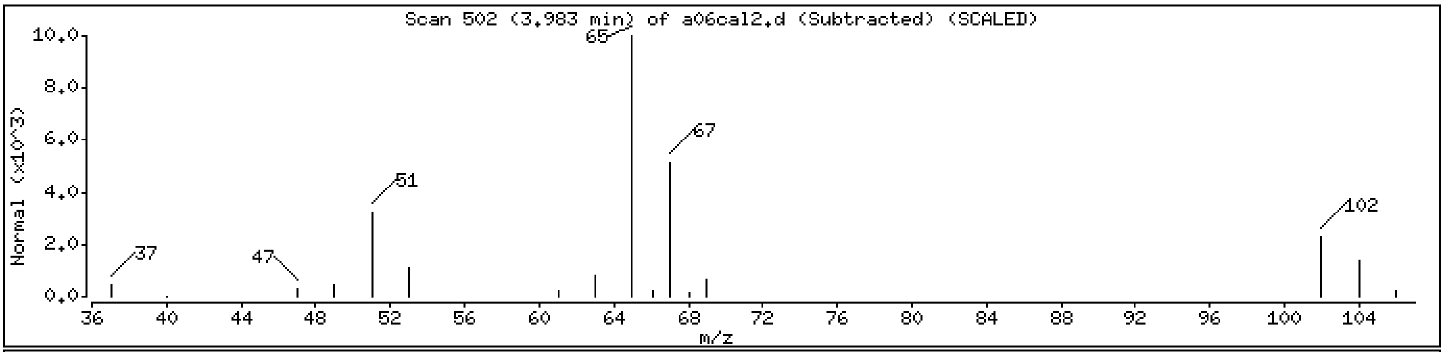
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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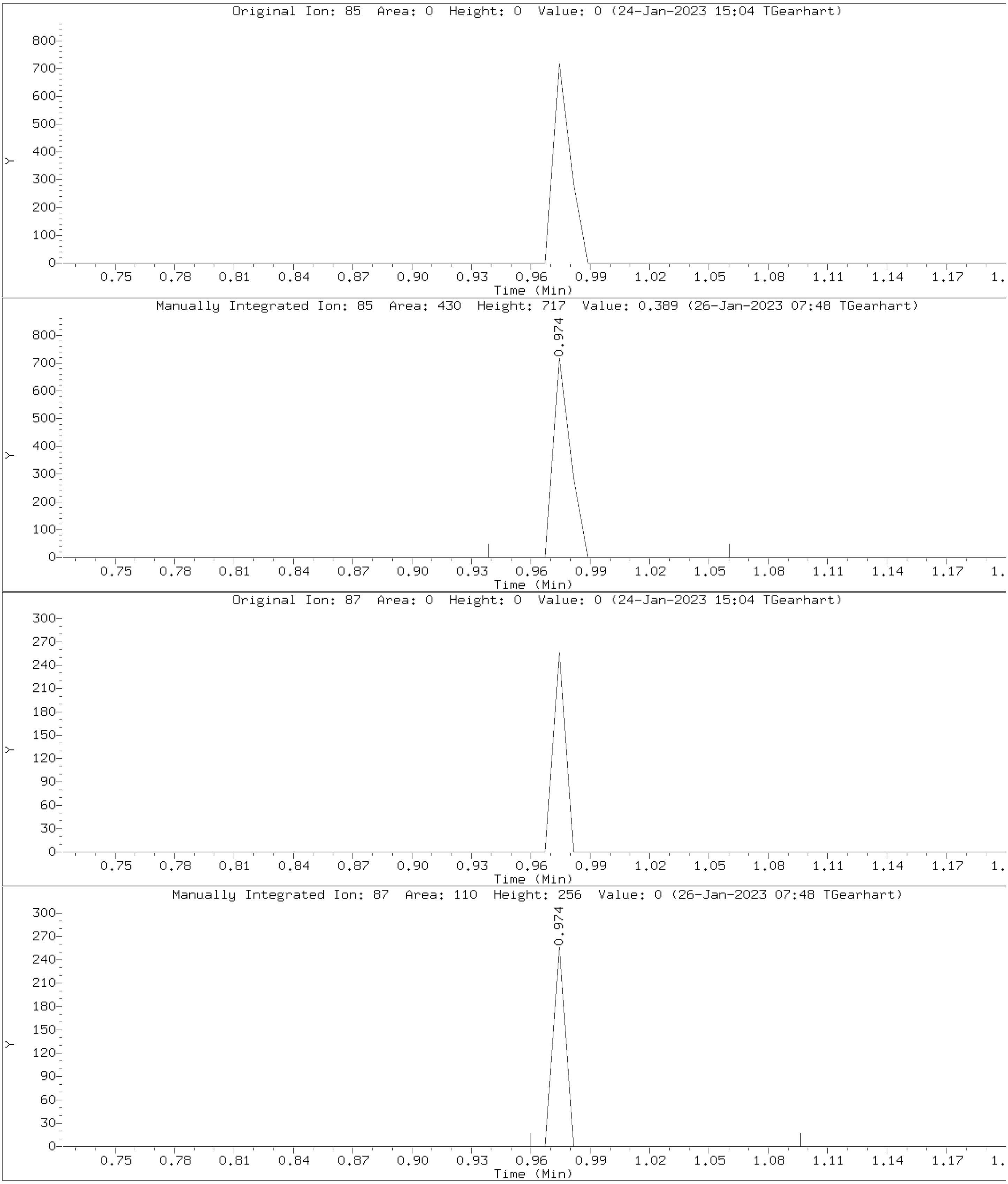
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 460-00-4



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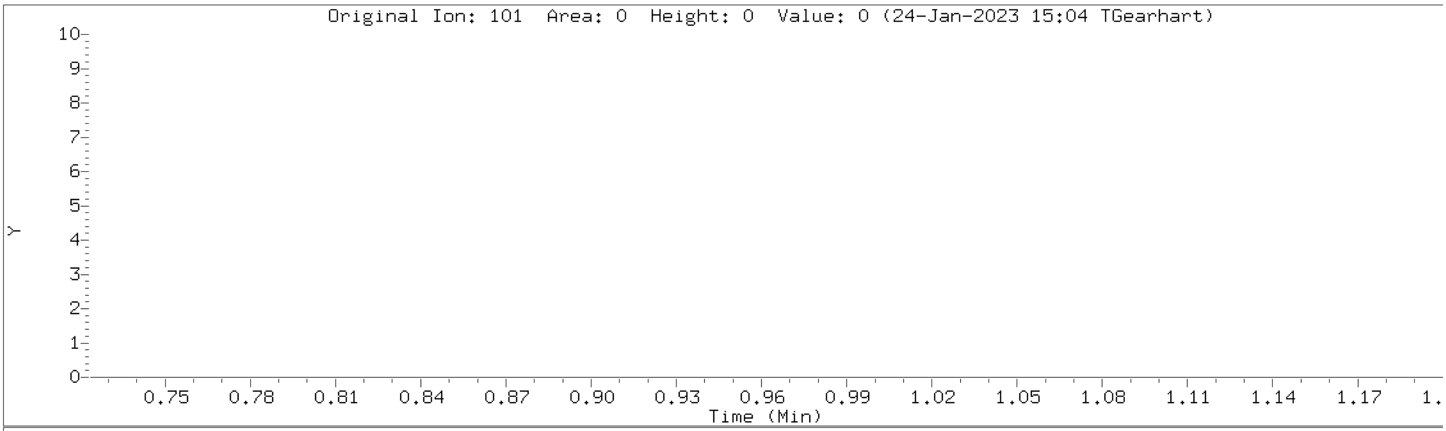
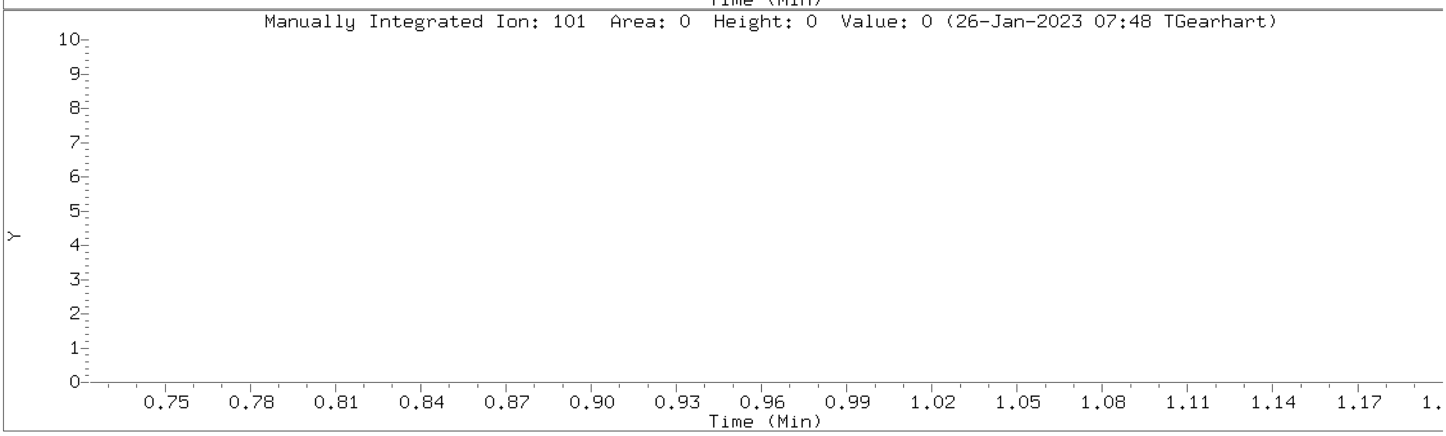
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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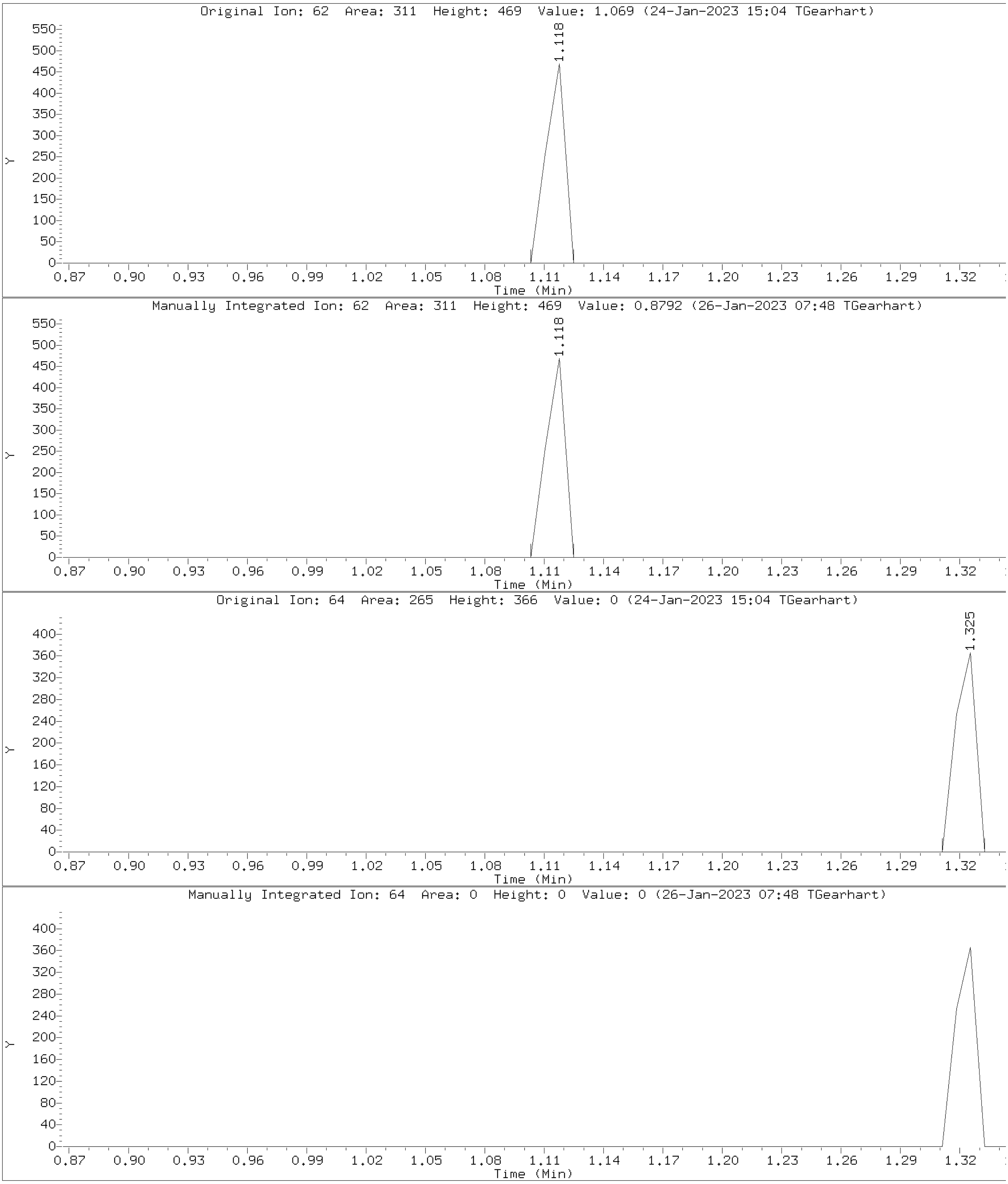
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Vinyl Chloride   Review Code: WP
CAS Number: 75-01-4



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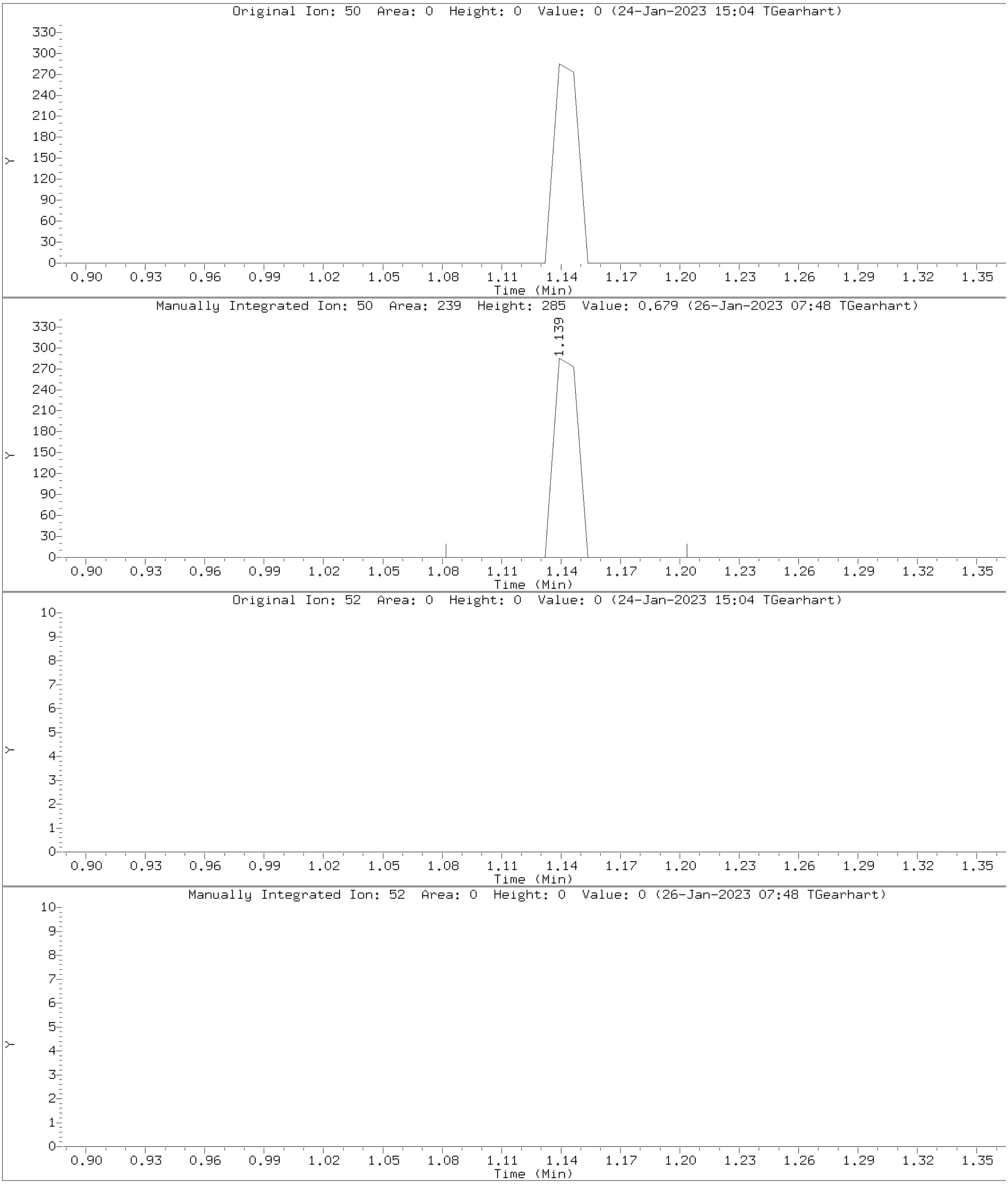
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chloromethane   Review Code: NI
CAS Number: 74-87-3



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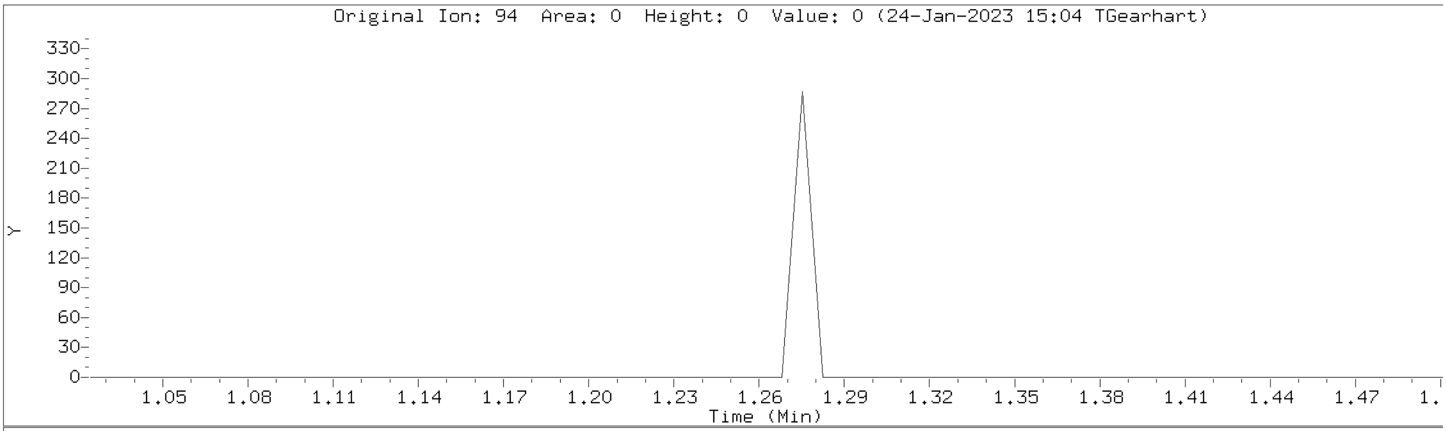
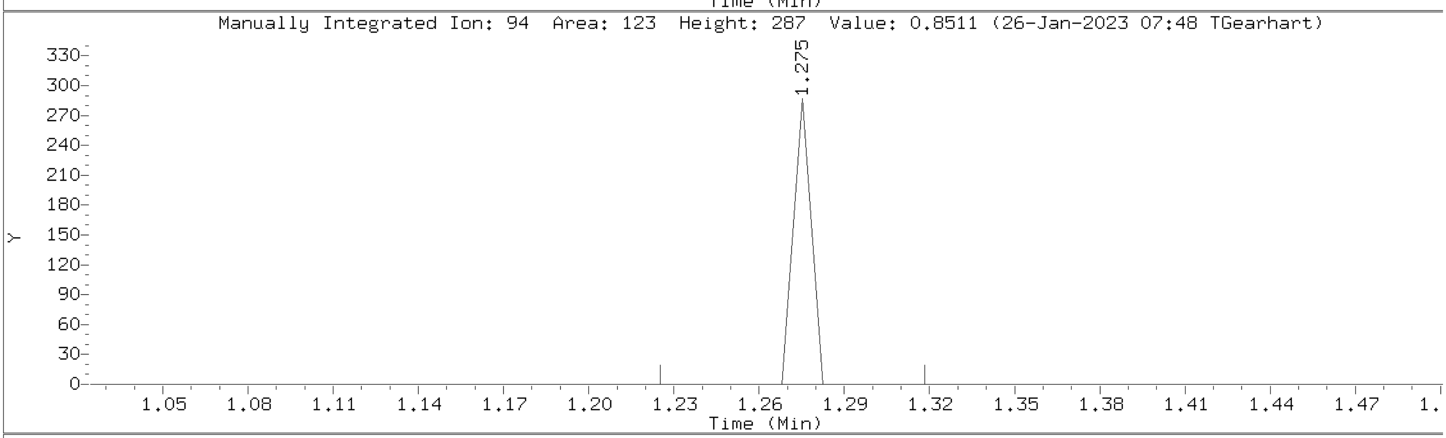
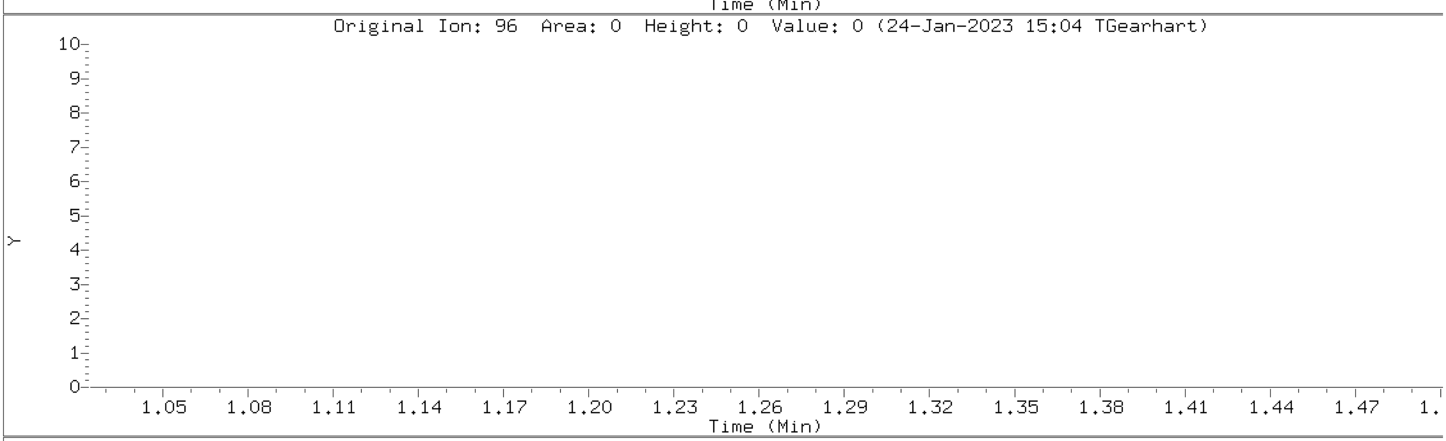
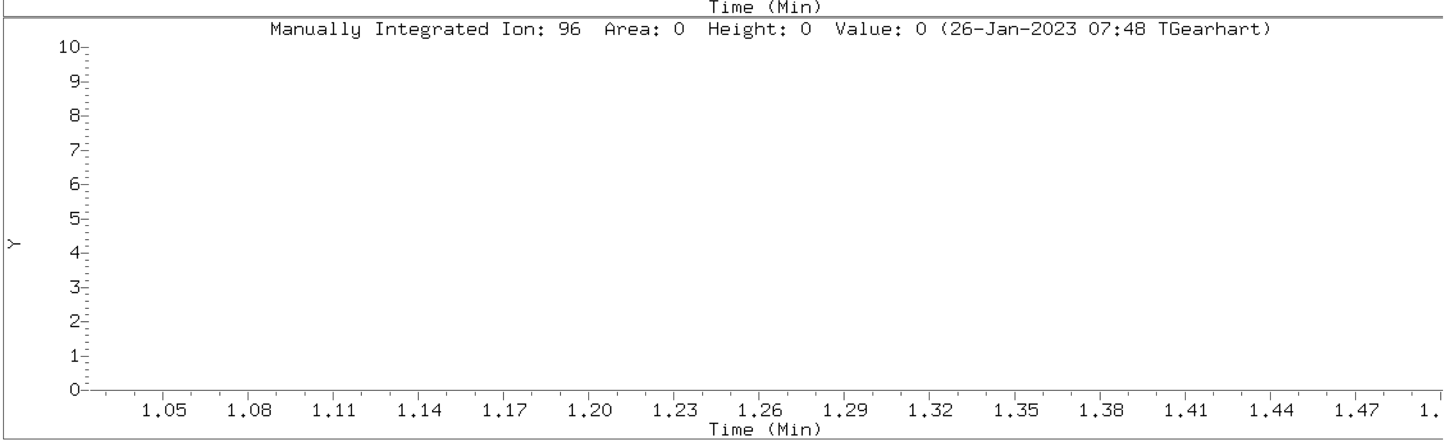
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Bromomethane   Review Code: NI
CAS Number: 74-83-9









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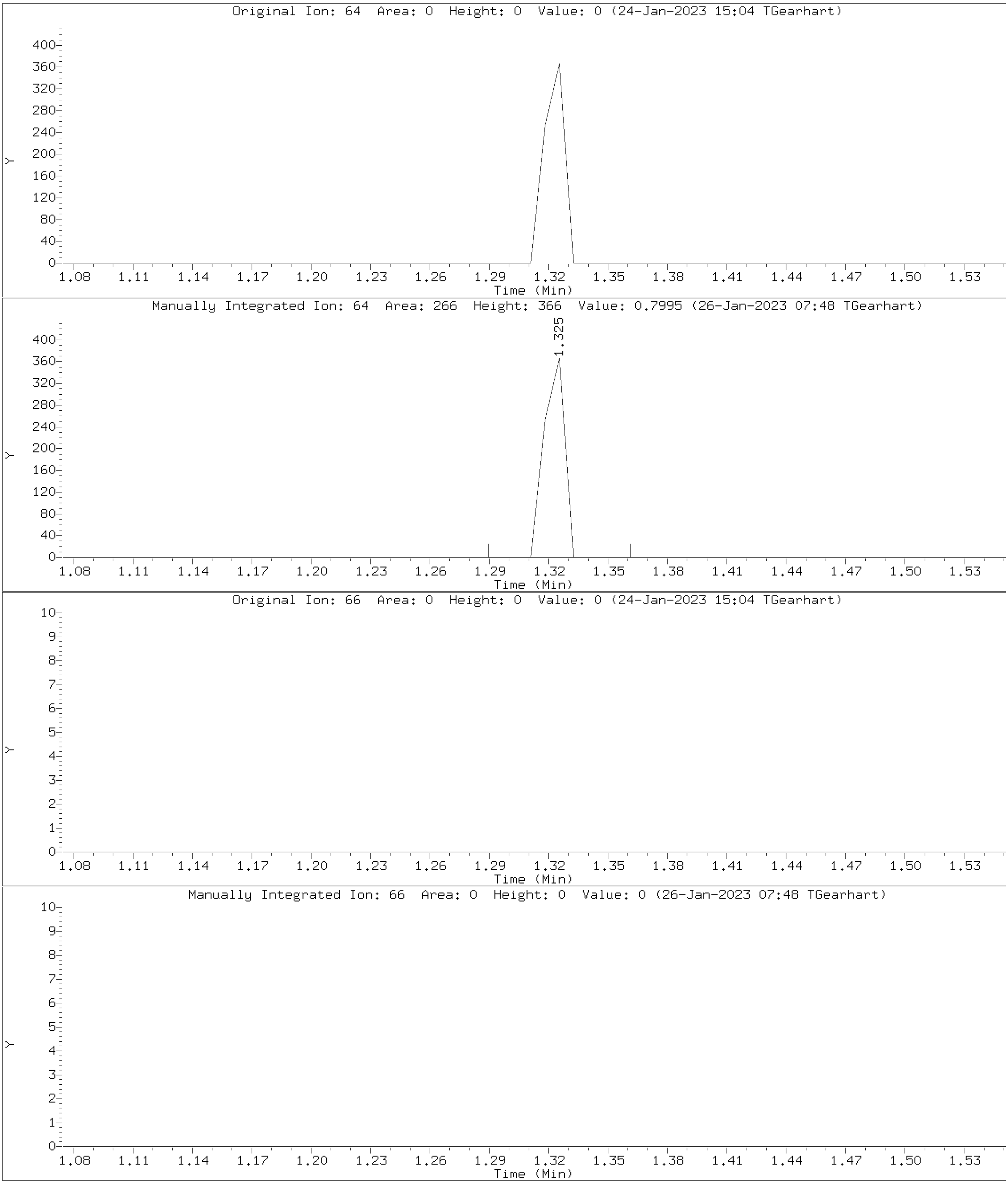
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chloroethane   Review Code: NI
CAS Number: 75-00-3



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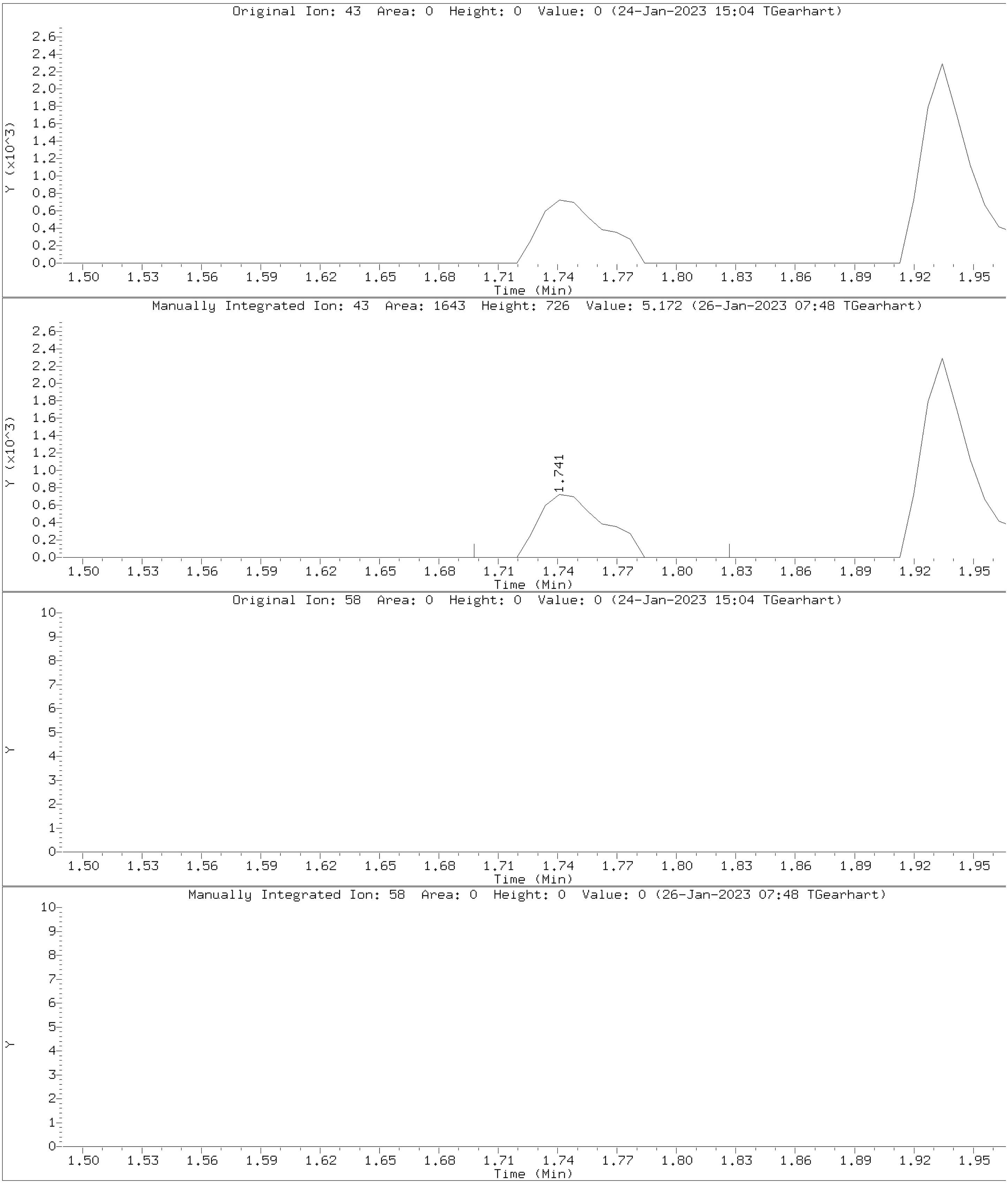
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Acetone   Review Code: NI
CAS Number: 67-64-1



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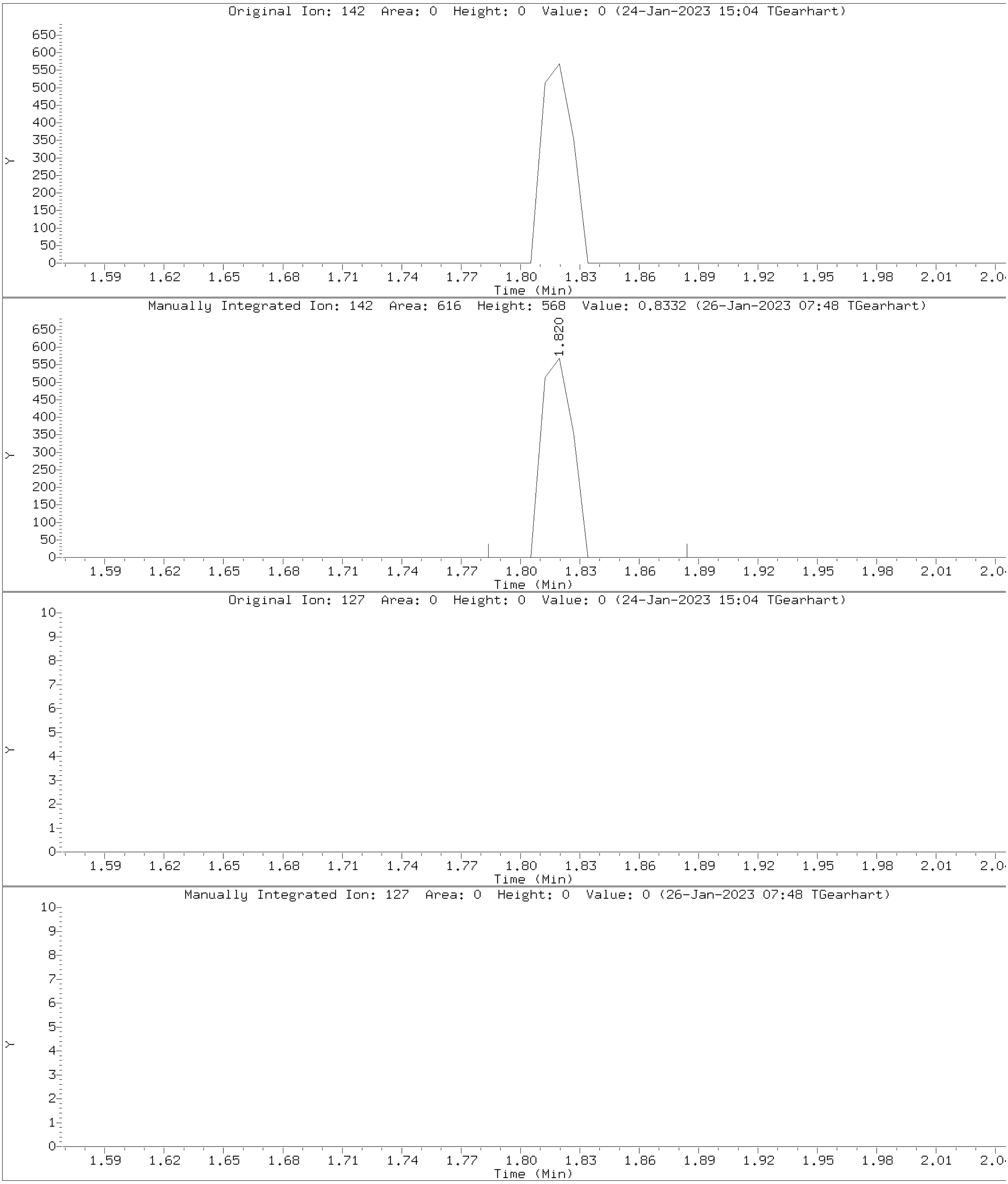
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Iodomethane   Review Code: NI
CAS Number:



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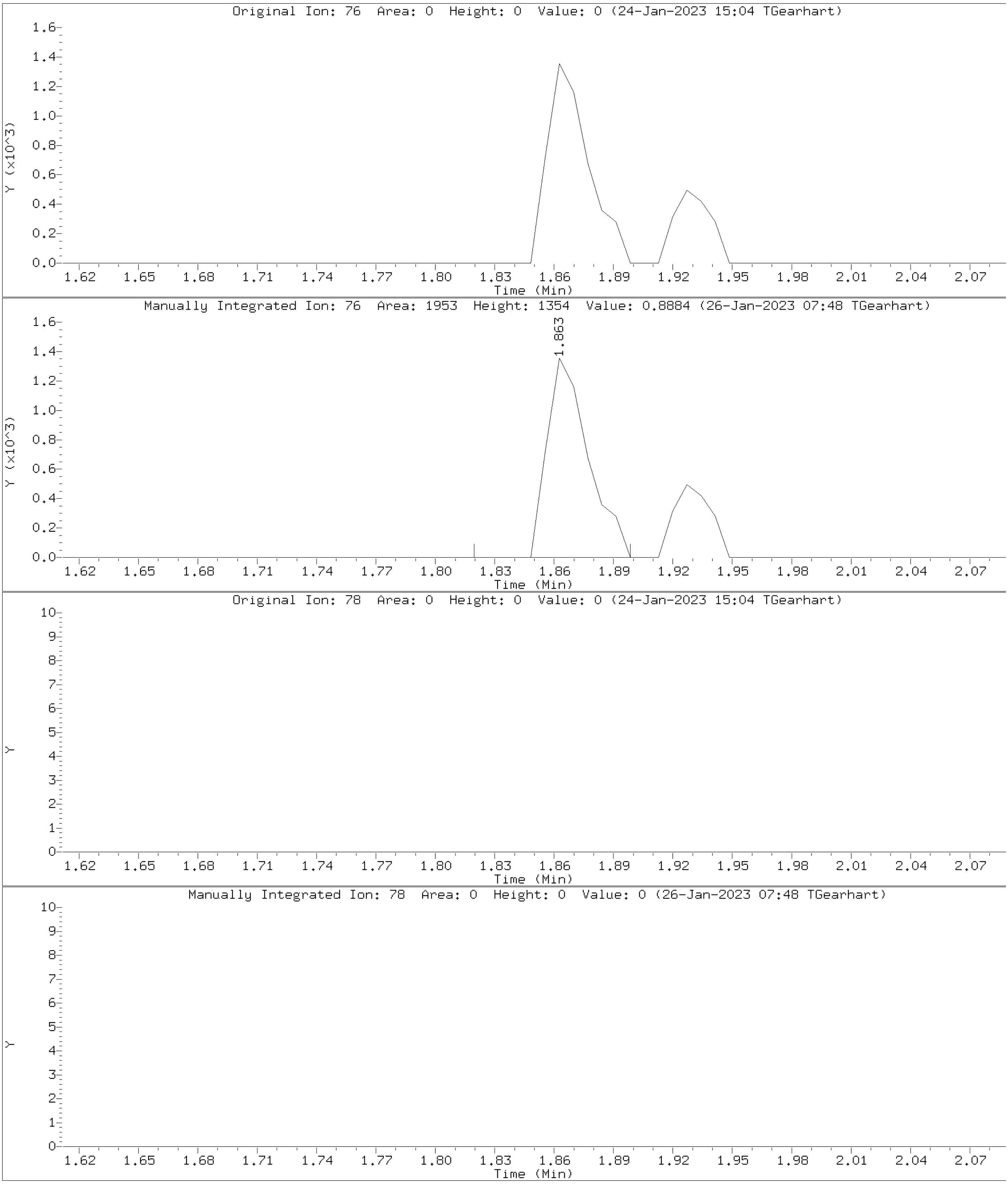
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Disulfide   Review Code: NI
CAS Number: 75-15-0



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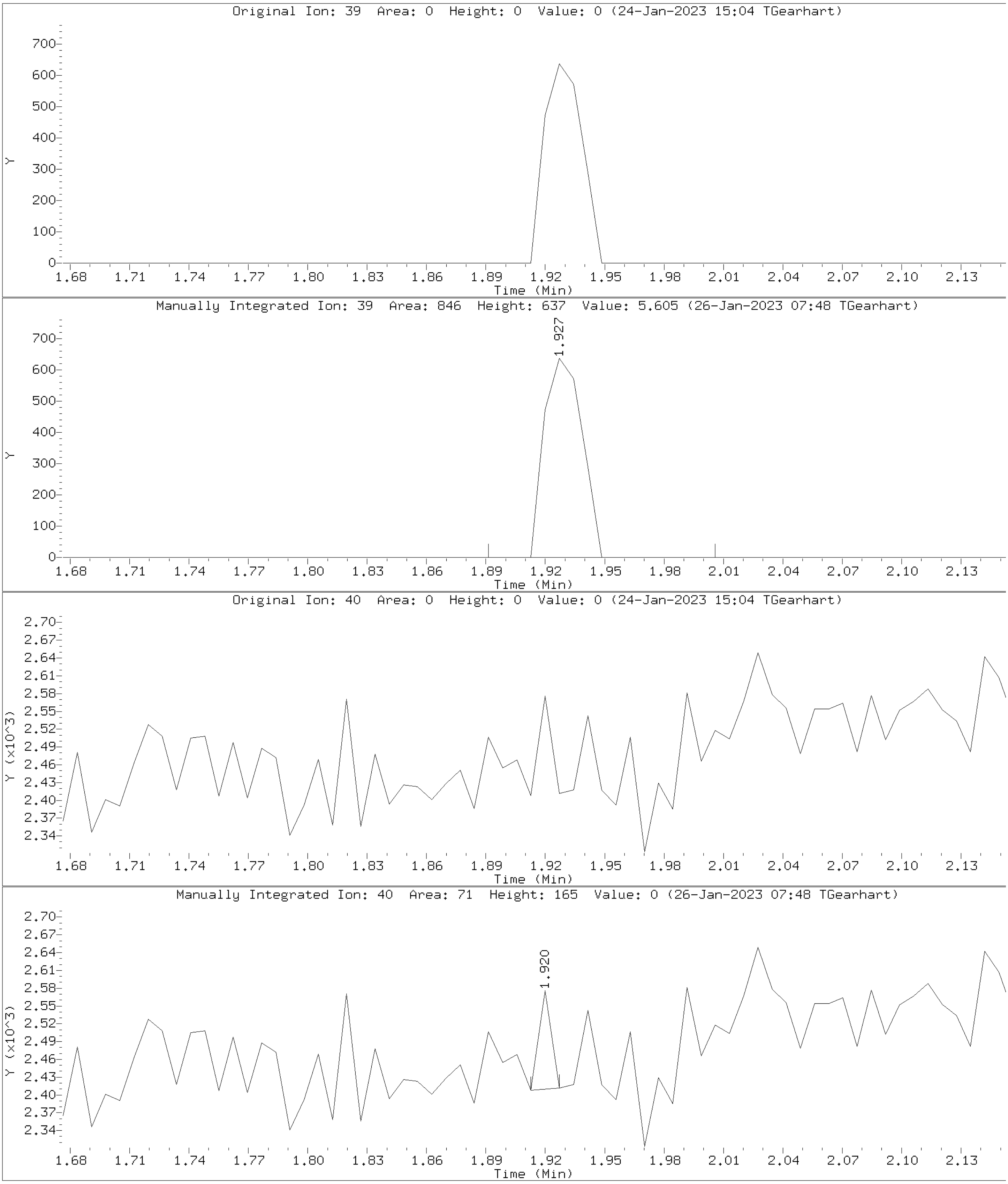
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile   Review Code: NI
CAS Number: 75-05-8



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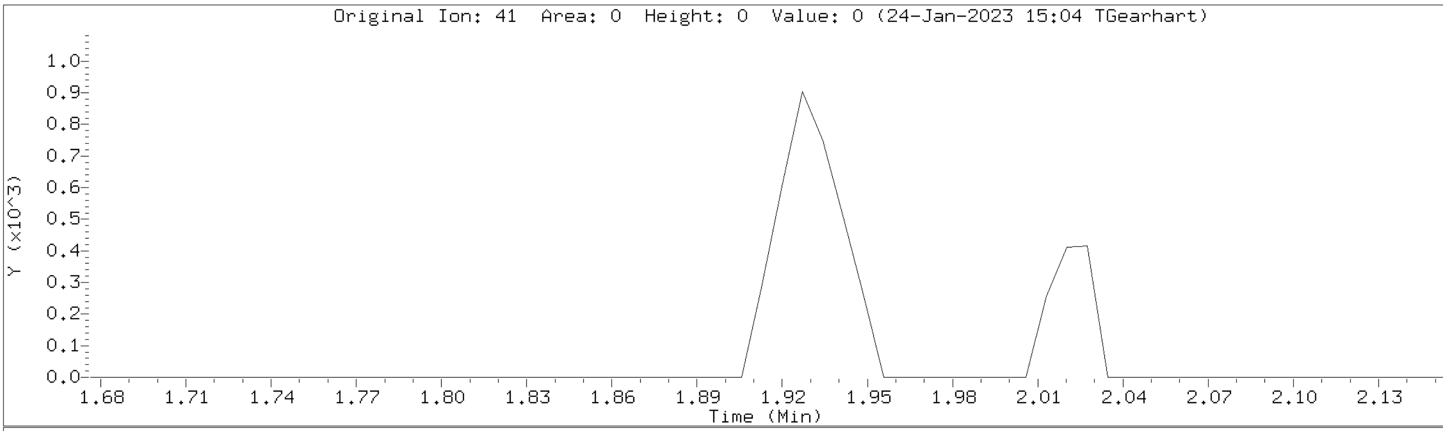
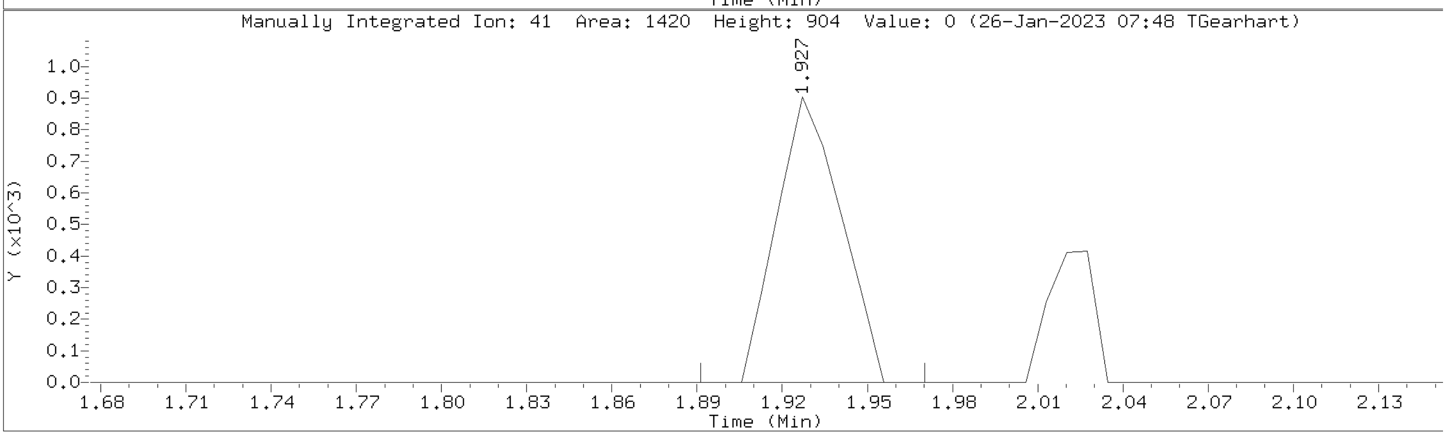
Lab Sample ID: 8260-CAL2





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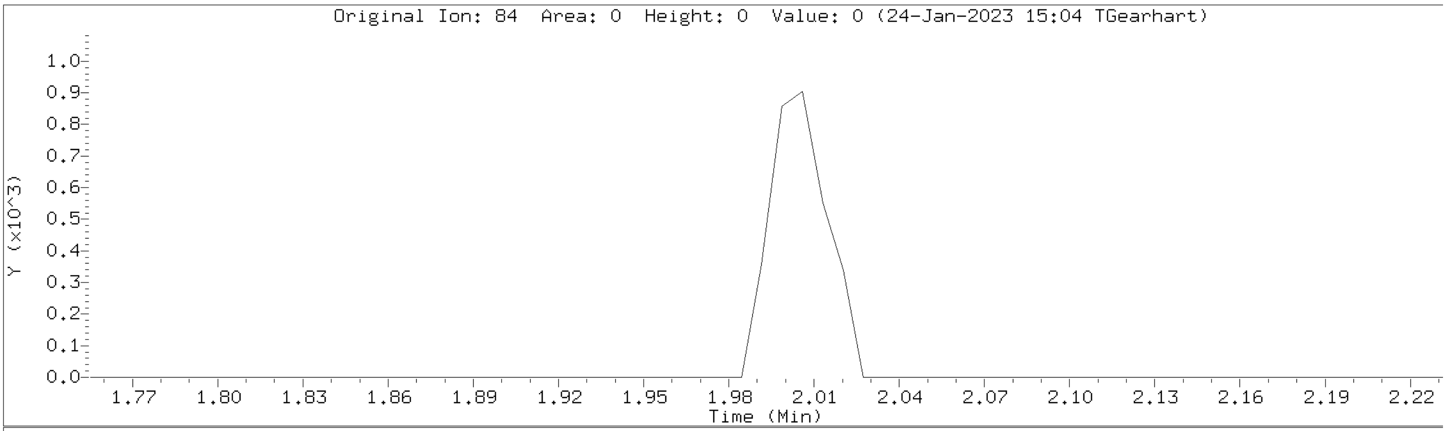
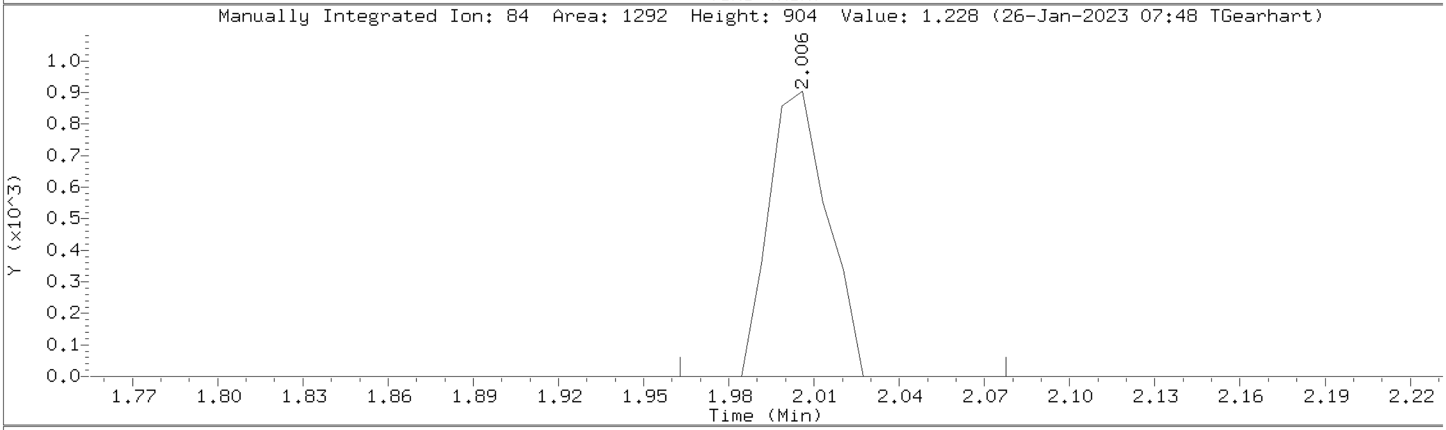
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Methylene Chloride   Review Code: NI
CAS Number: 75-09-2

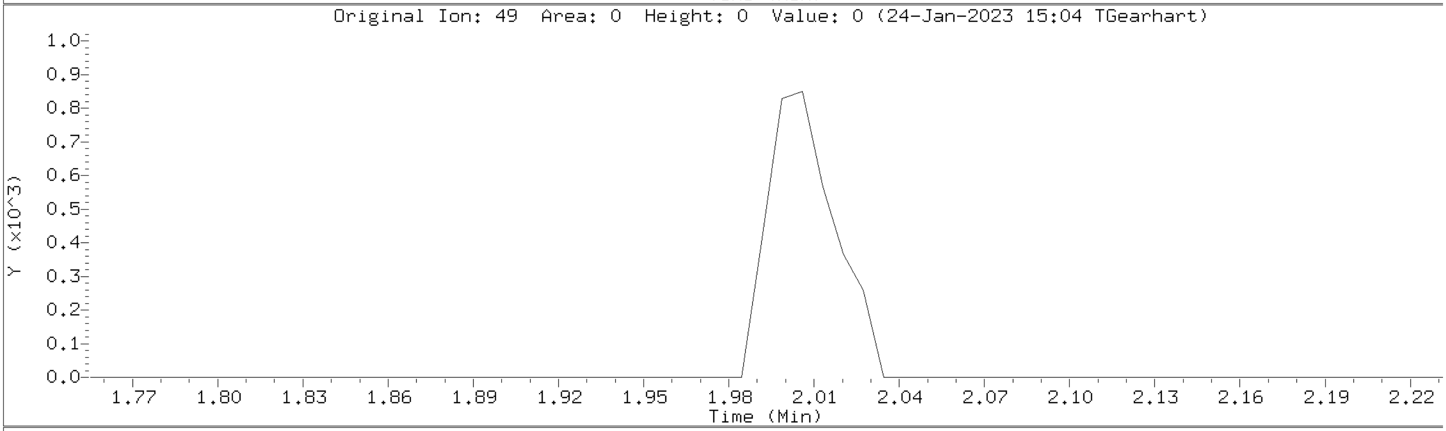
Original Ion: 84 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



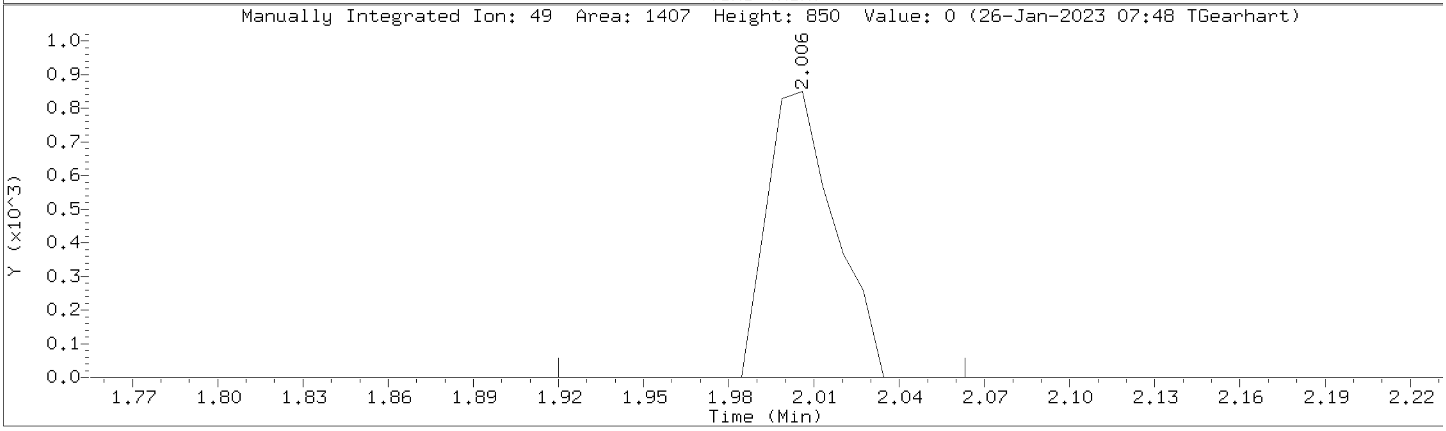
Manually Integrated Ion: 84 Area: 1292 Height: 904 Value: 1.228 (26-Jan-2023 07:48 TGearhart)



Original Ion: 49 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 49 Area: 1407 Height: 850 Value: 0 (26-Jan-2023 07:48 TGearhart)



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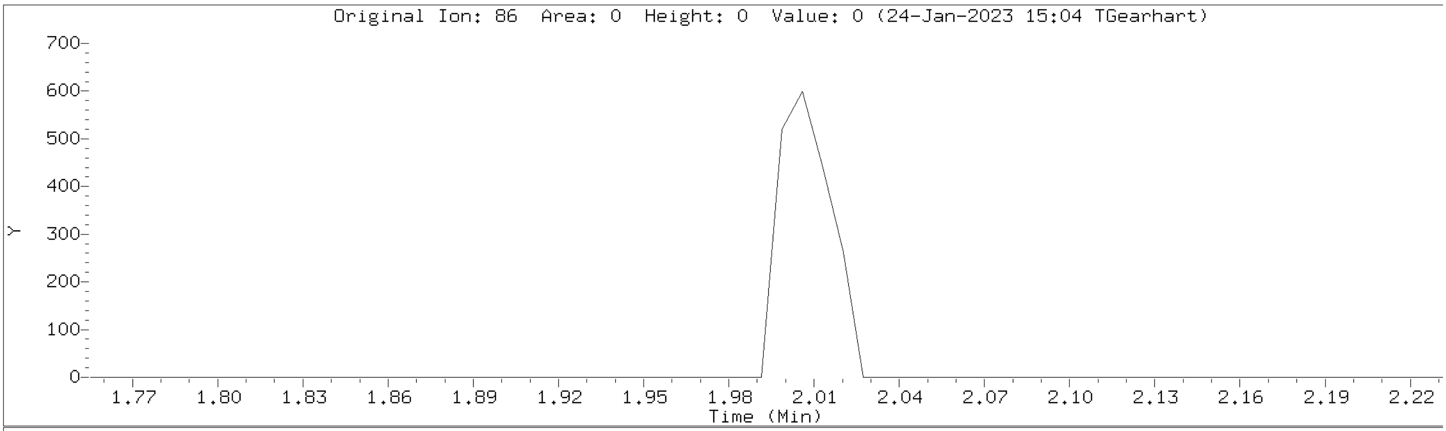
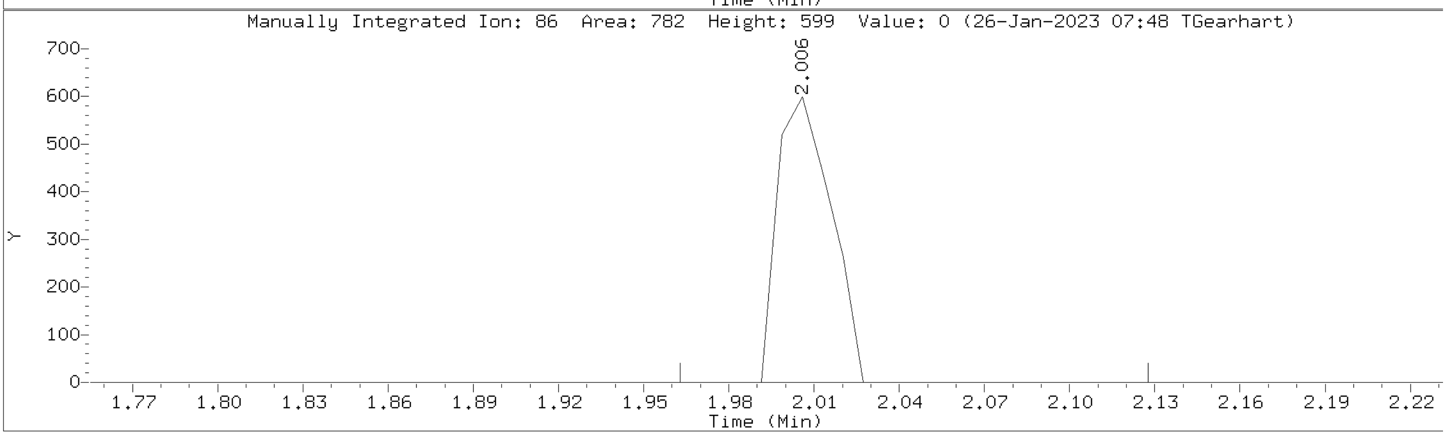
Lab Sample ID: 8260-CAL2





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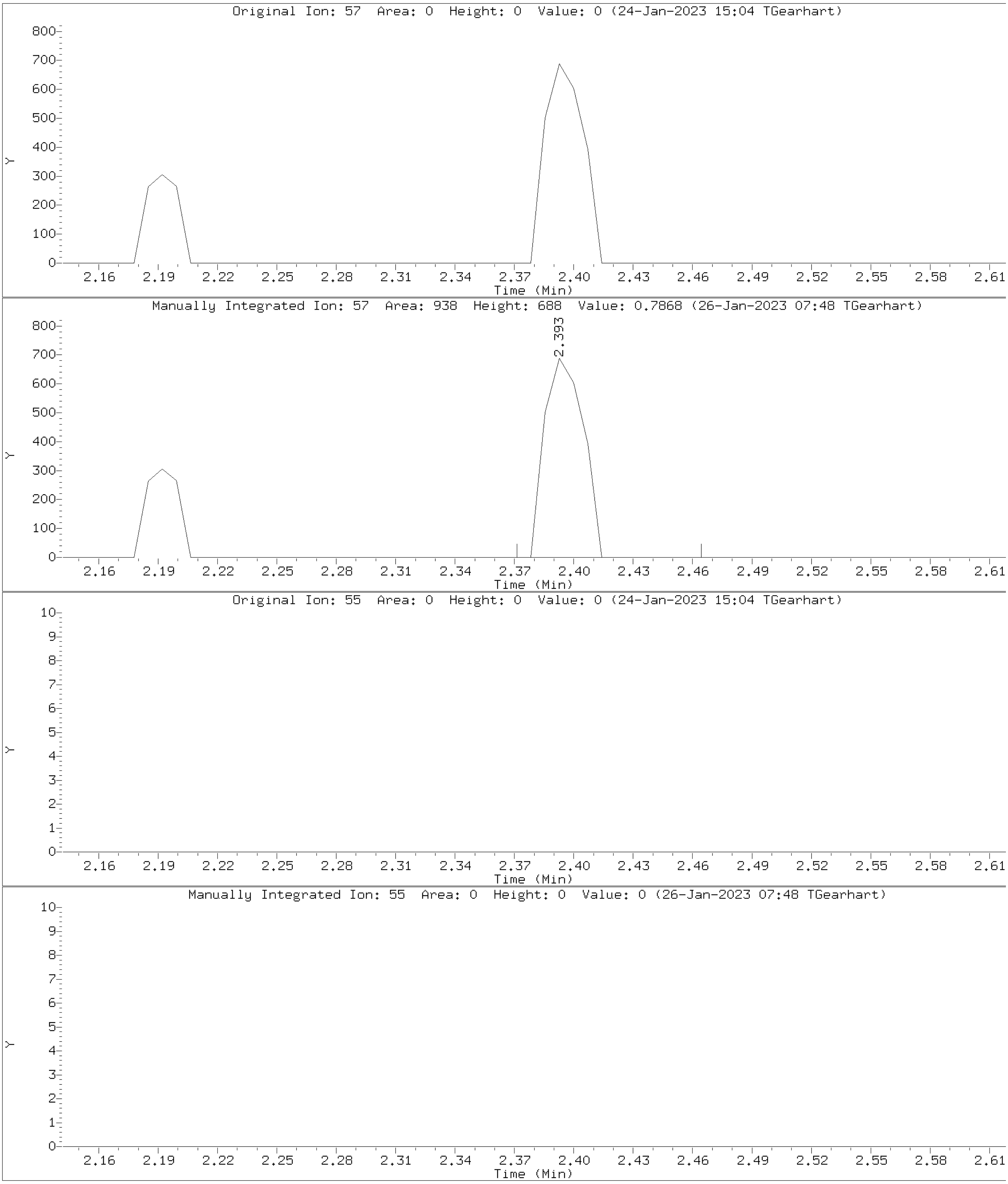
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: n-Hexane   Review Code: NI
CAS Number:



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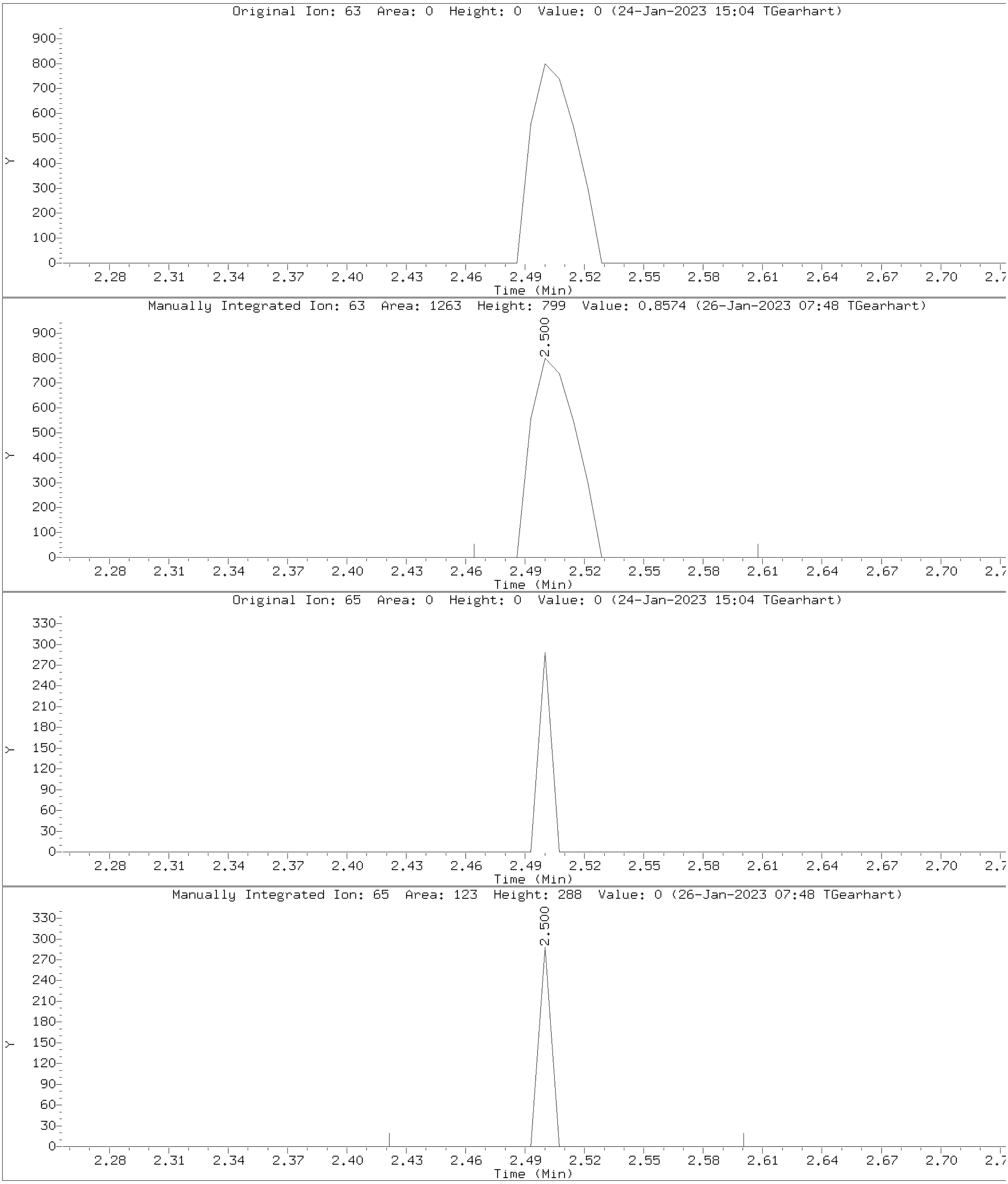
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethane   Review Code: NI
CAS Number: 75-34-3



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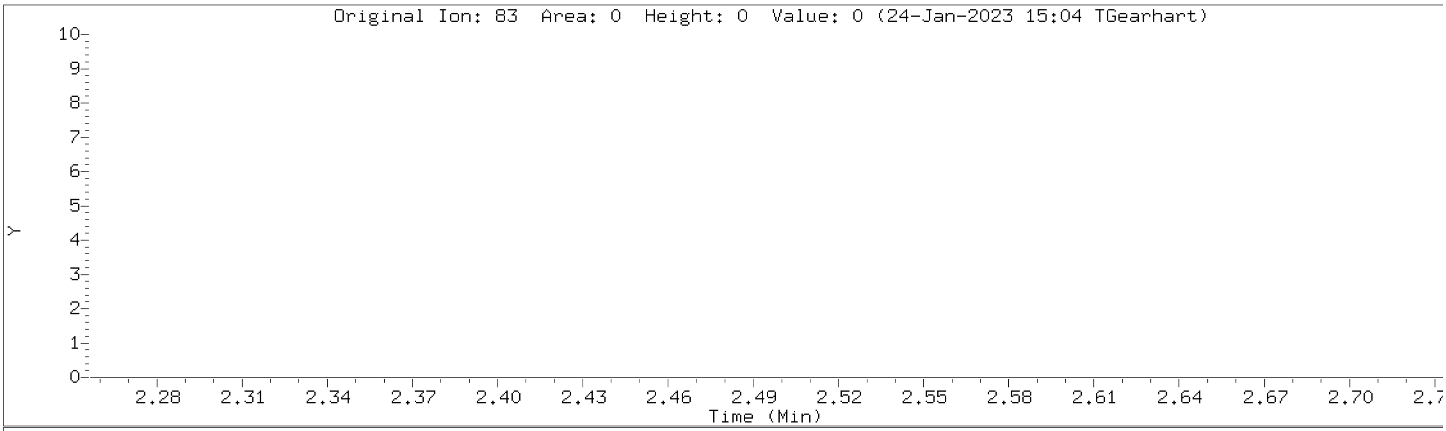
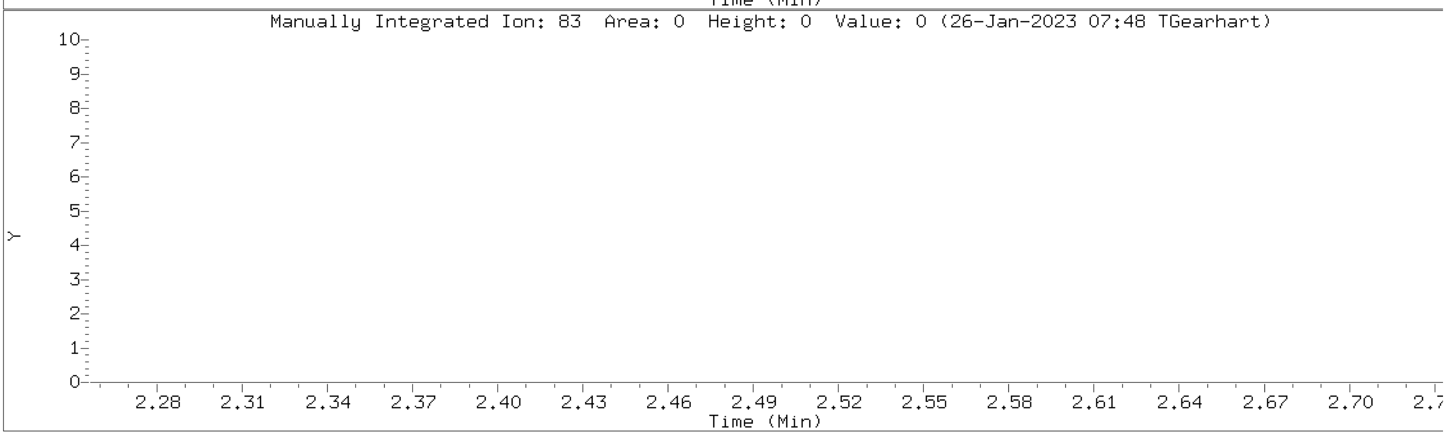
Lab Sample ID: 8260-CAL2





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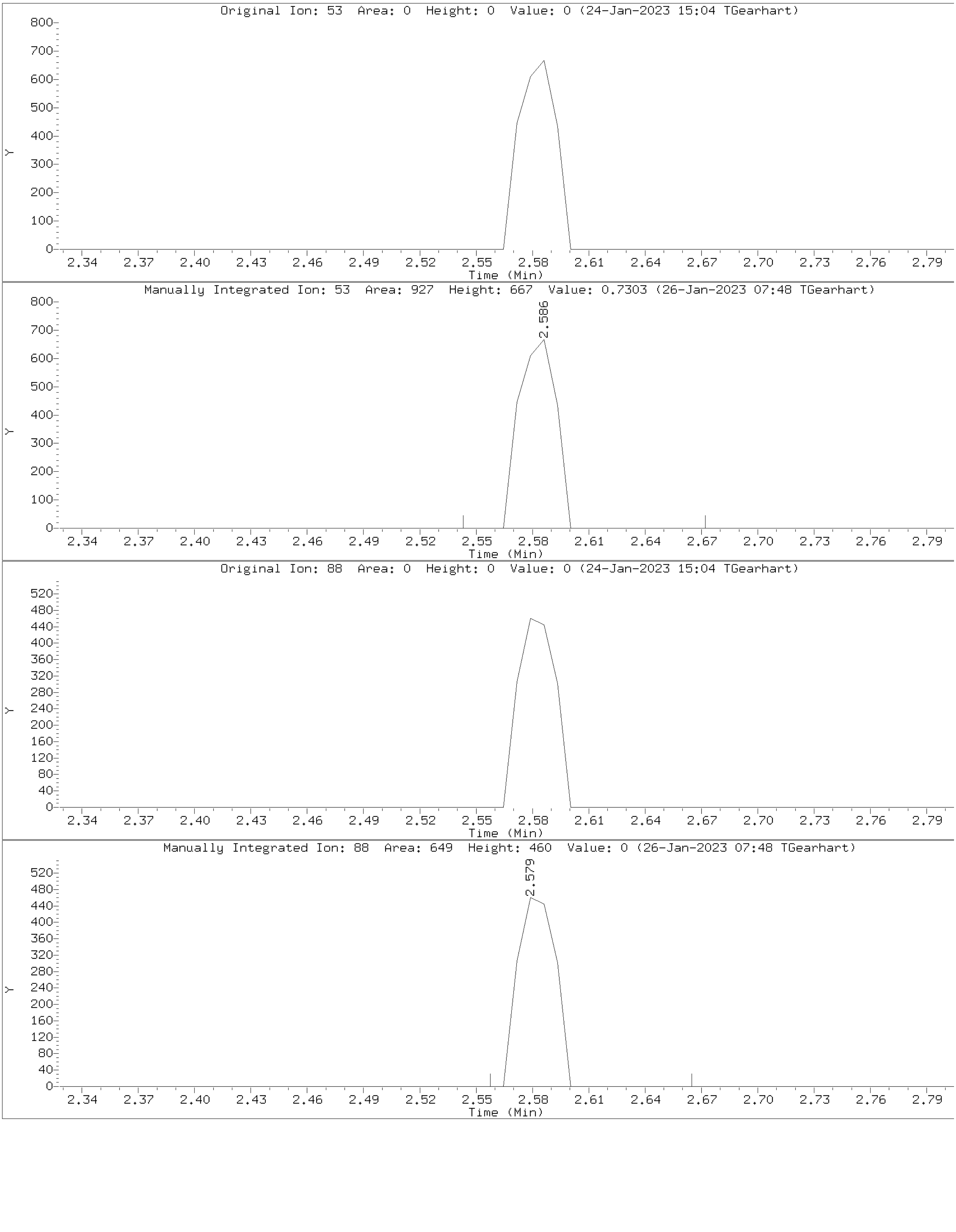
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: chloroprene   Review Code: NI
CAS Number: 126-99-8



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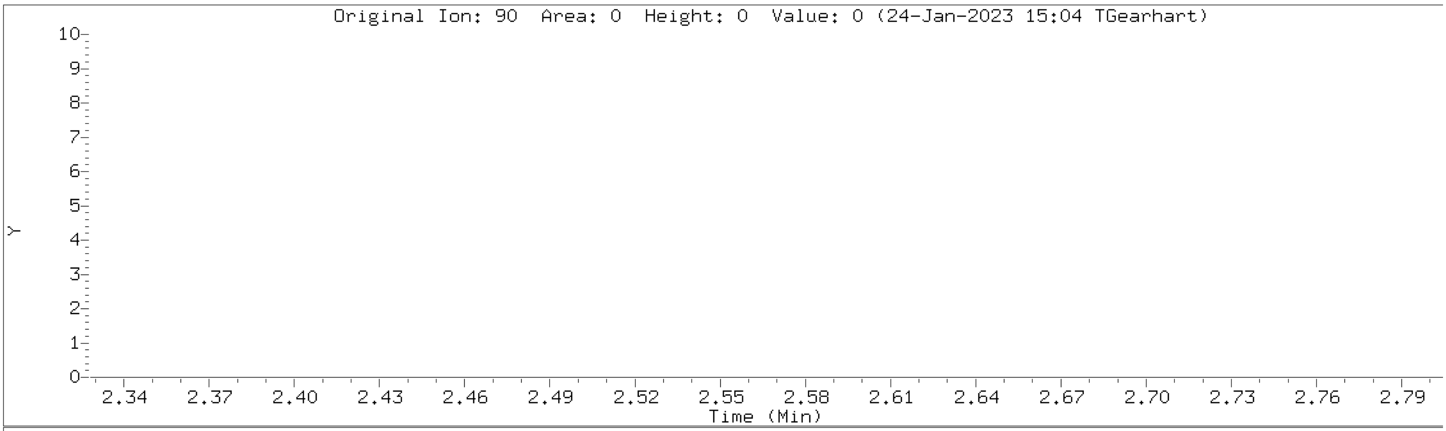
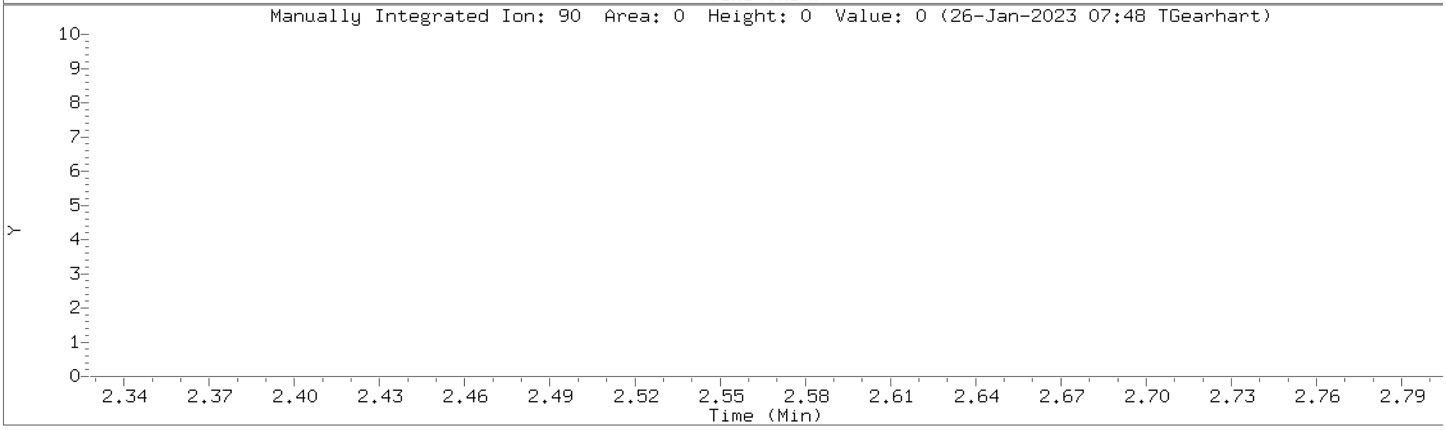
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Original Ion: 90 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 90 Area: 0 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



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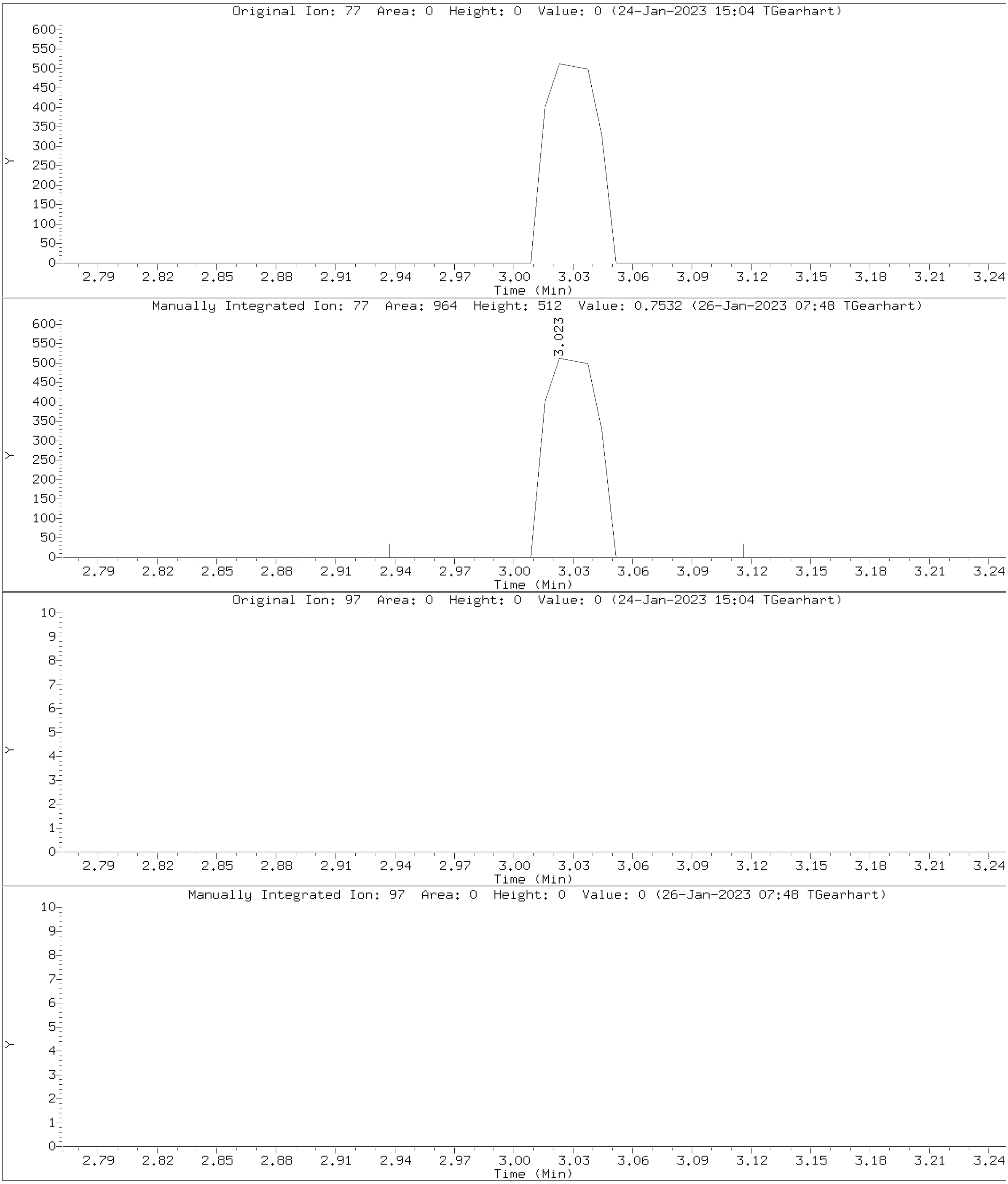
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 2,2-Dichloropropane   Review Code: NI
CAS Number: 594-20-7



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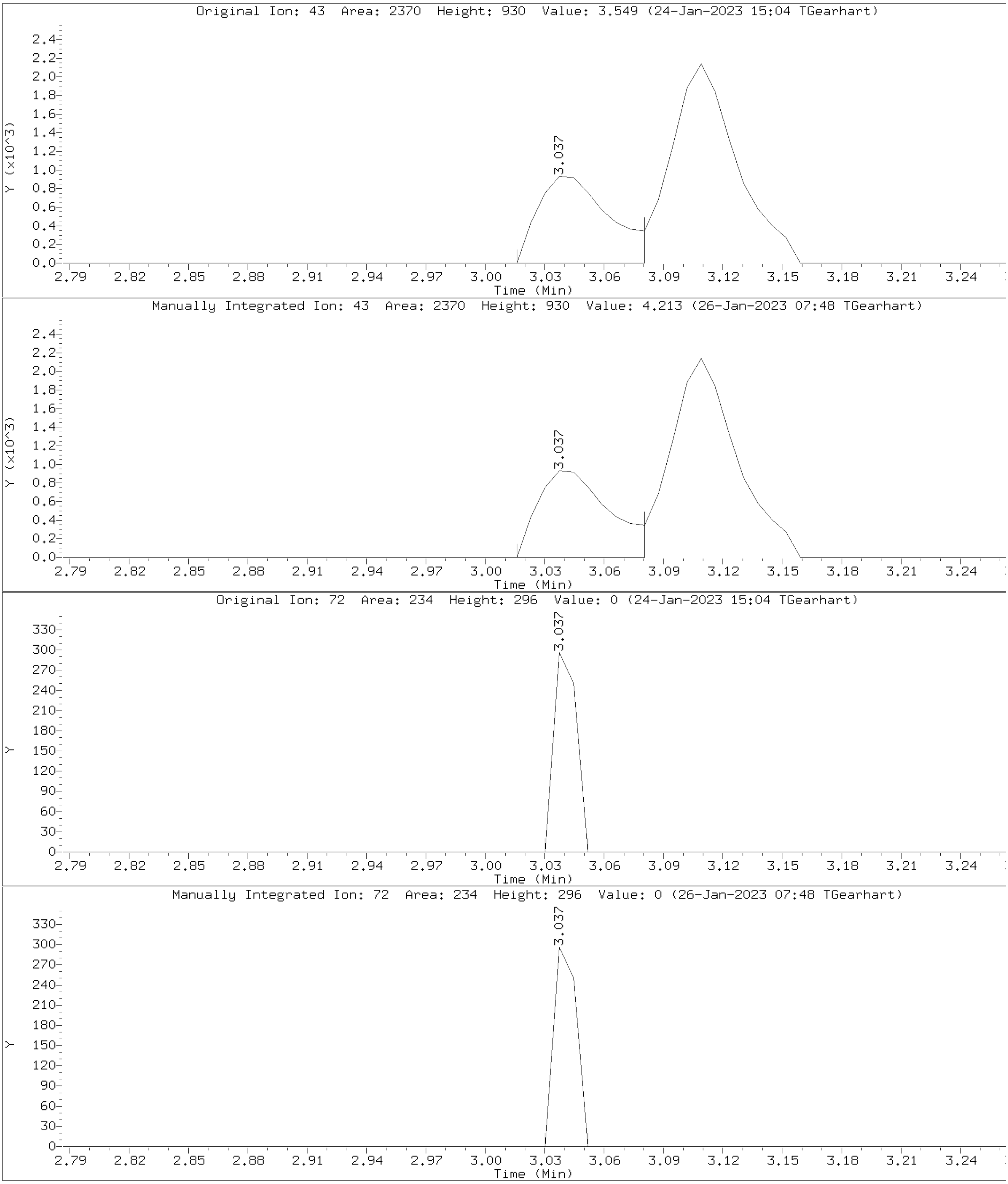
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 2-Butanone Review Code: WP
CAS Number: 78-93-3



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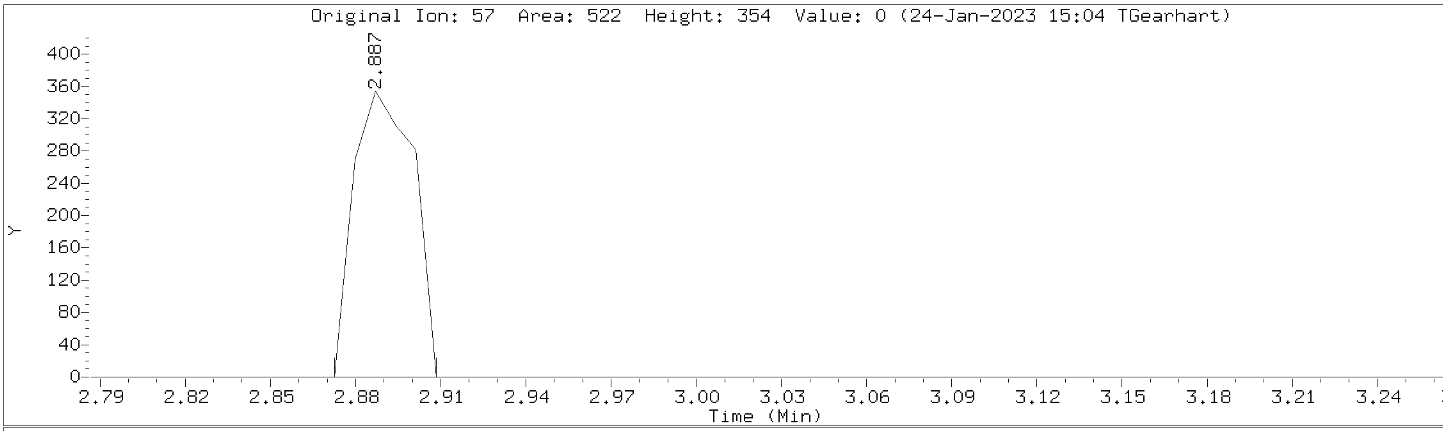
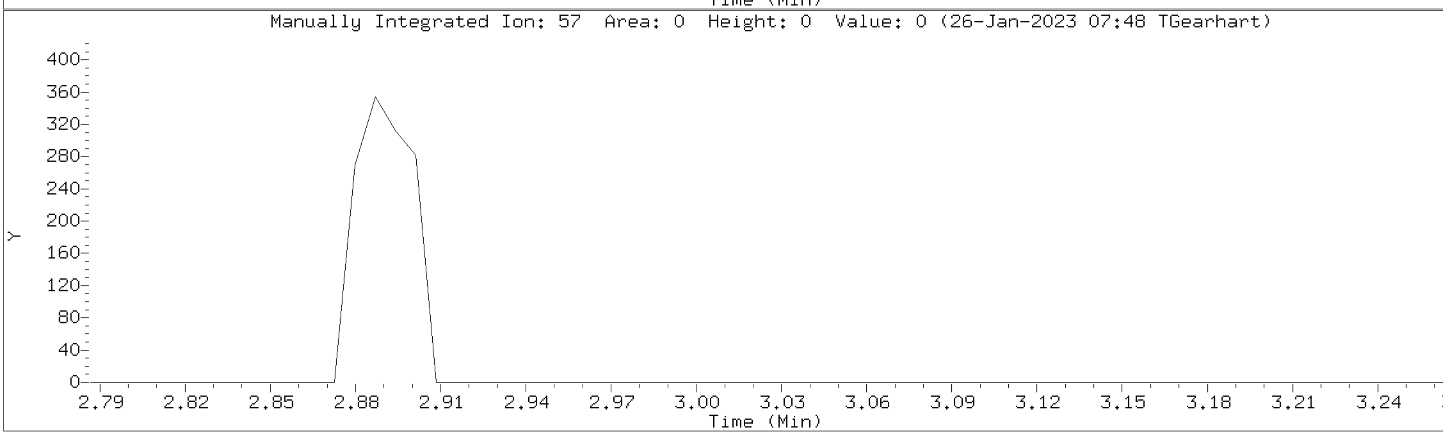
Lab Sample ID: 8260-CAL2





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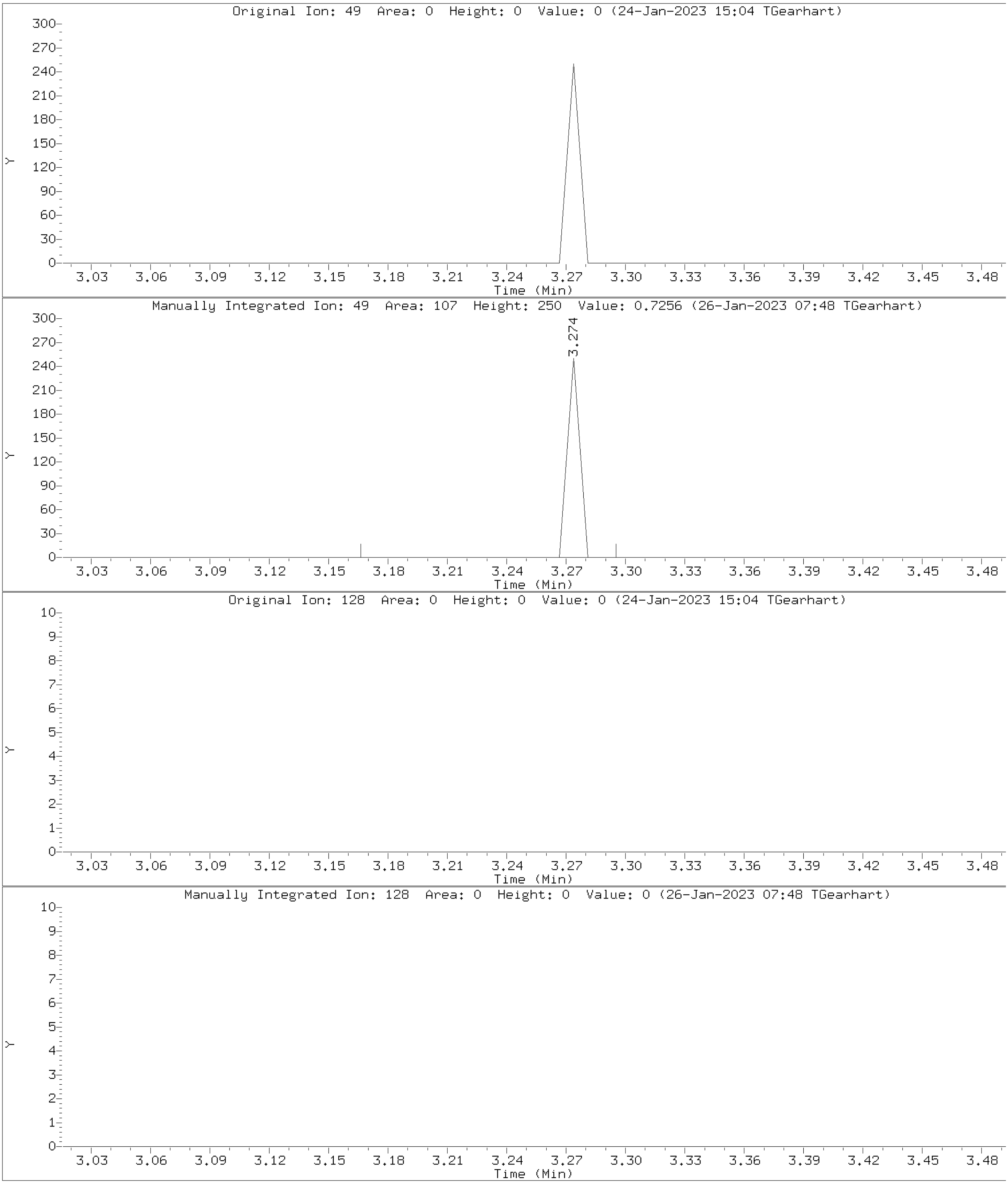
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Bromochloromethane Review Code: NI
CAS Number: 74-97-5



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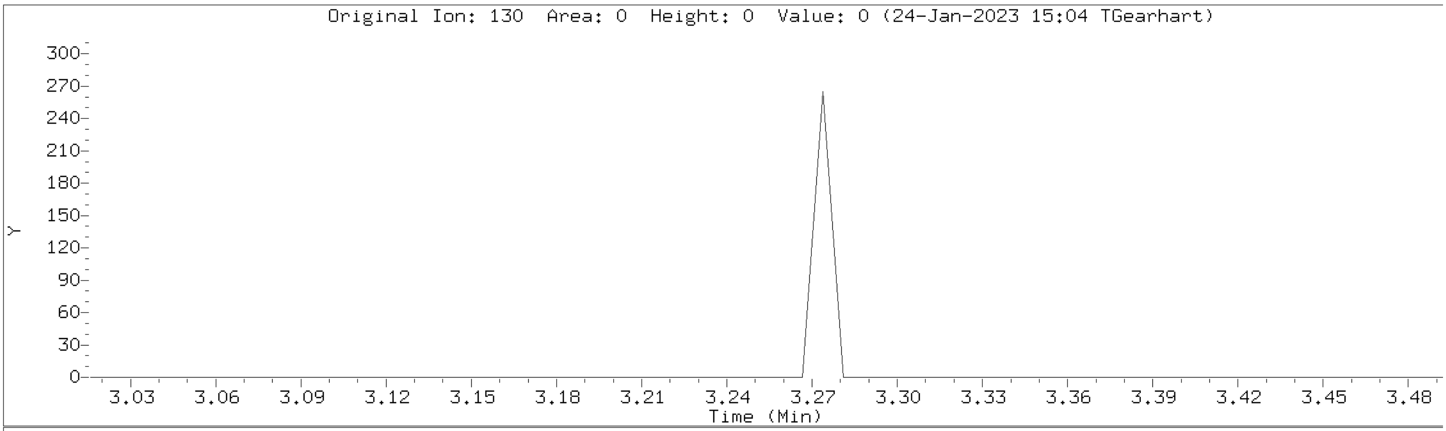
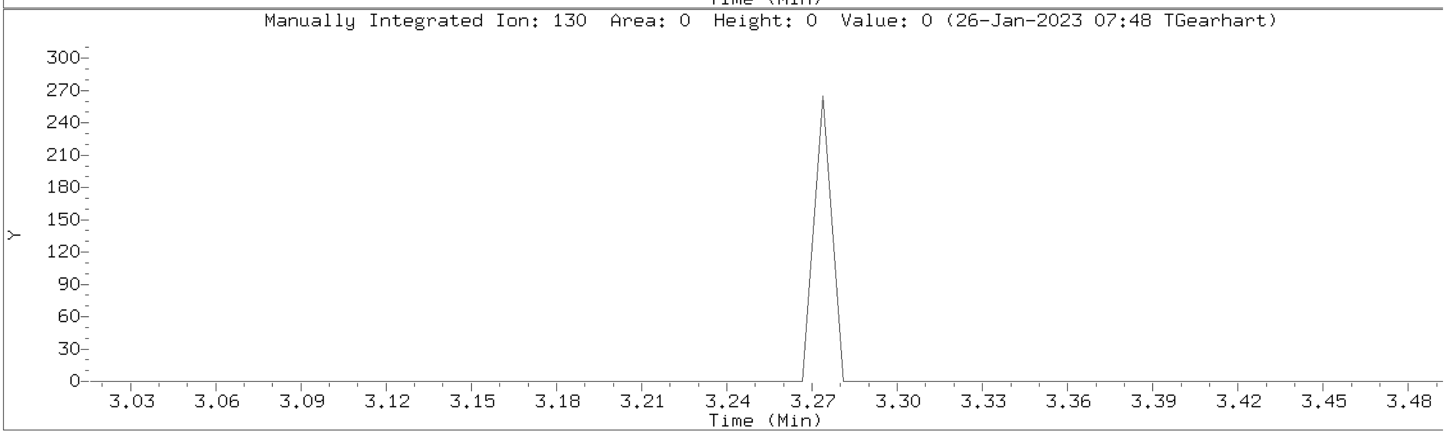
Lab Sample ID: 8260-CAL2





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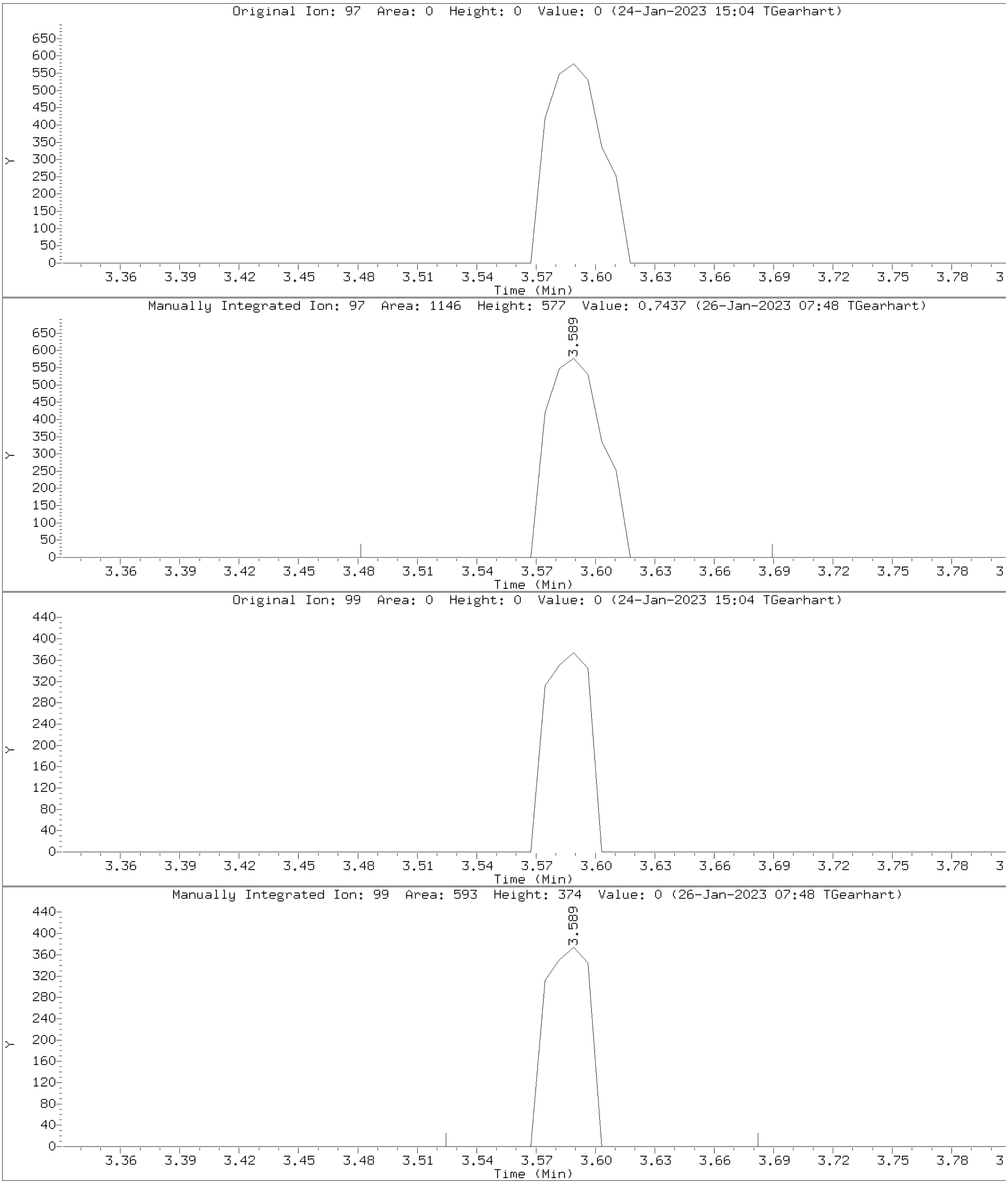
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,1-Trichloroethane   Review Code: NI
CAS Number: 71-55-6



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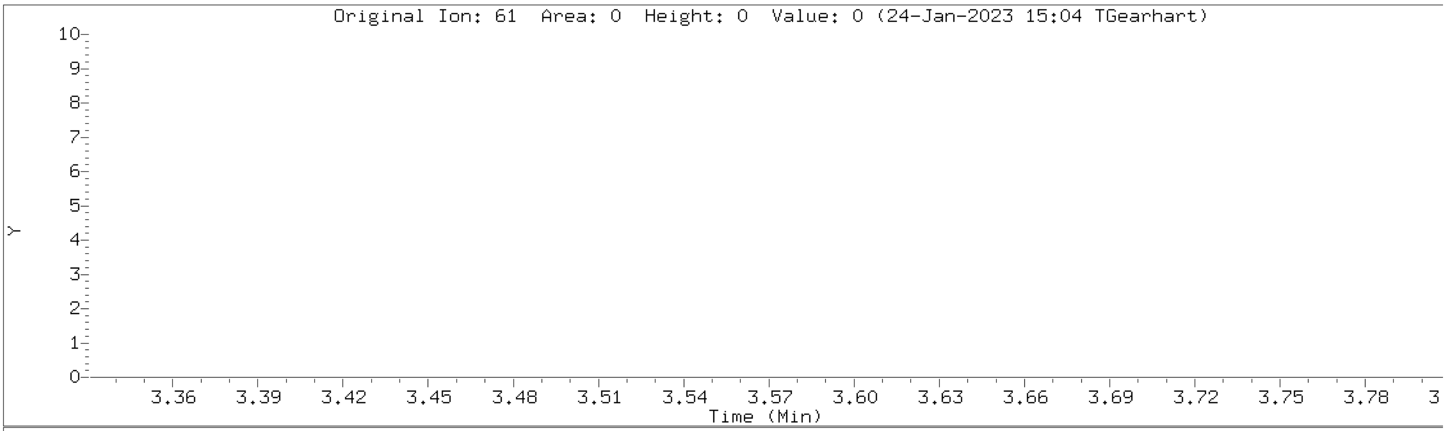
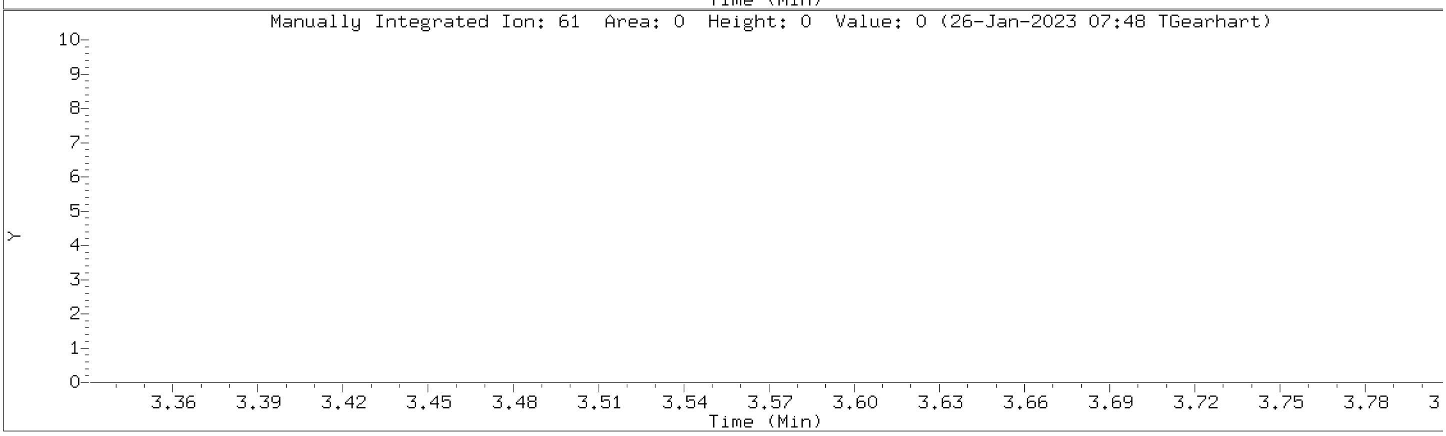
Lab Sample ID: 8260-CAL2





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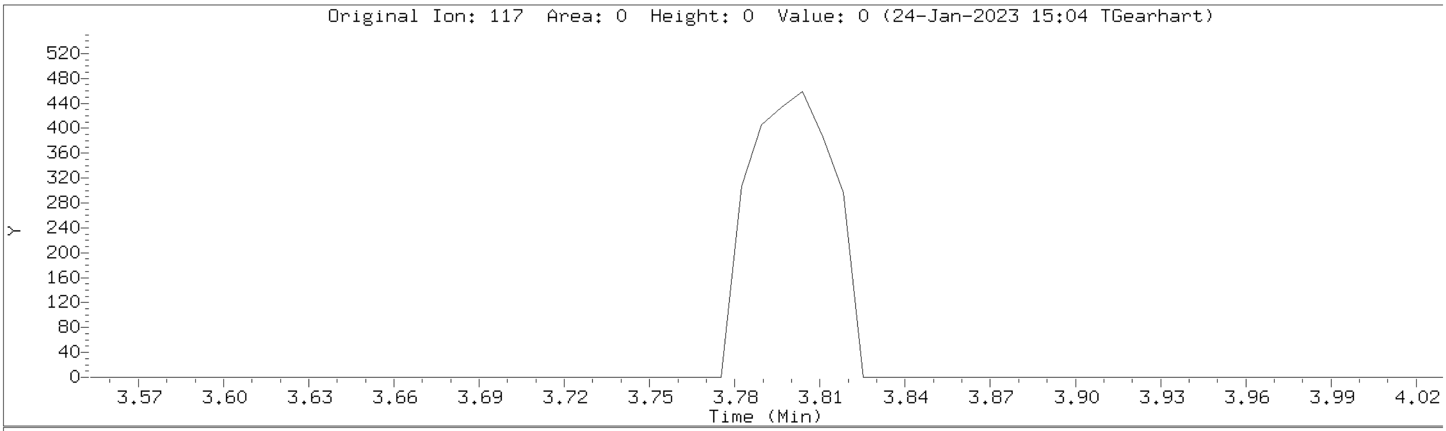
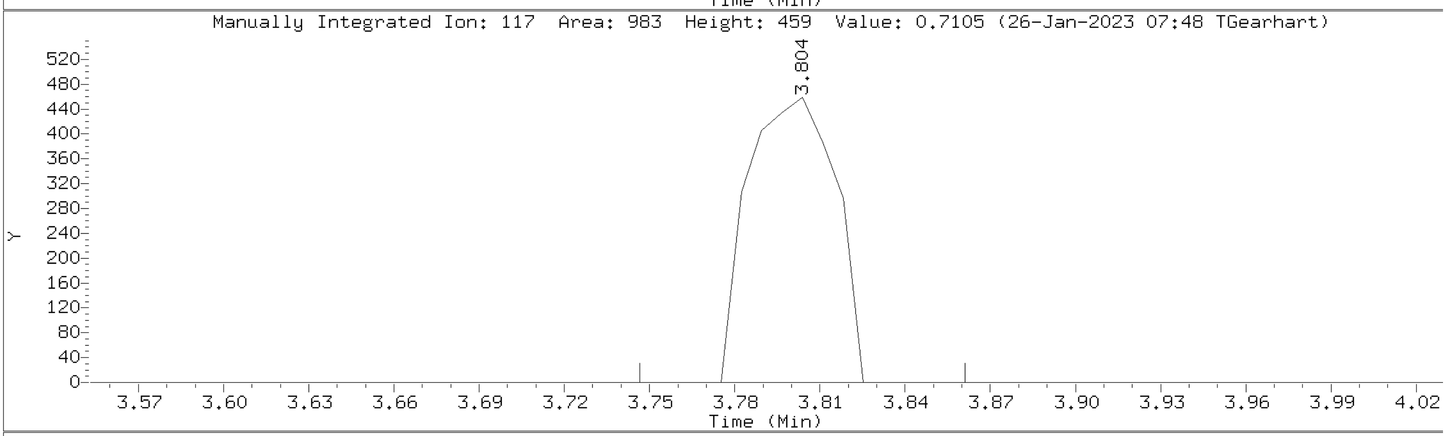
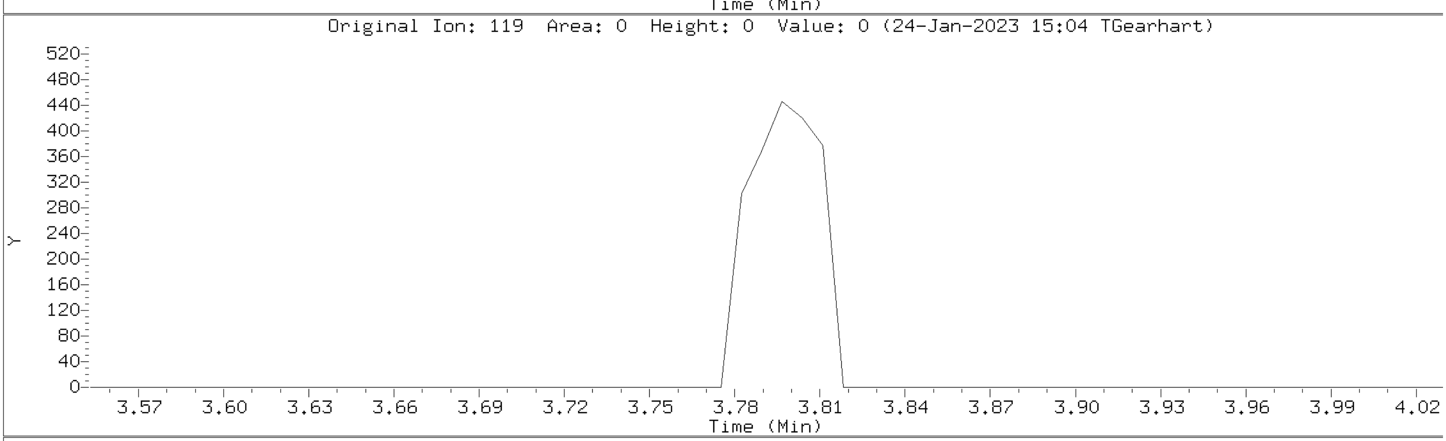
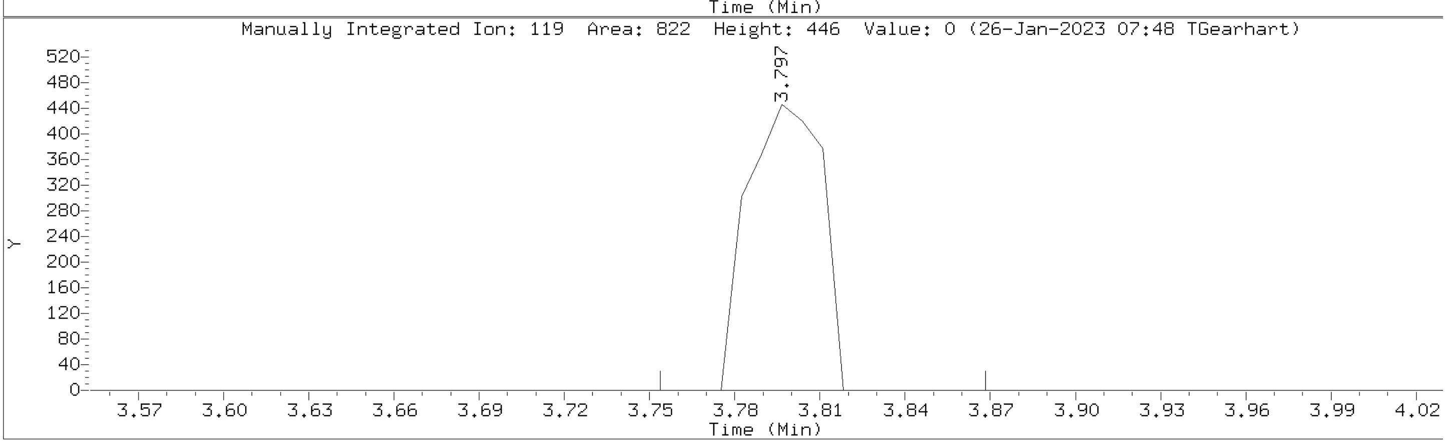
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Tetrachloride   Review Code: NI
CAS Number: 56-23-5









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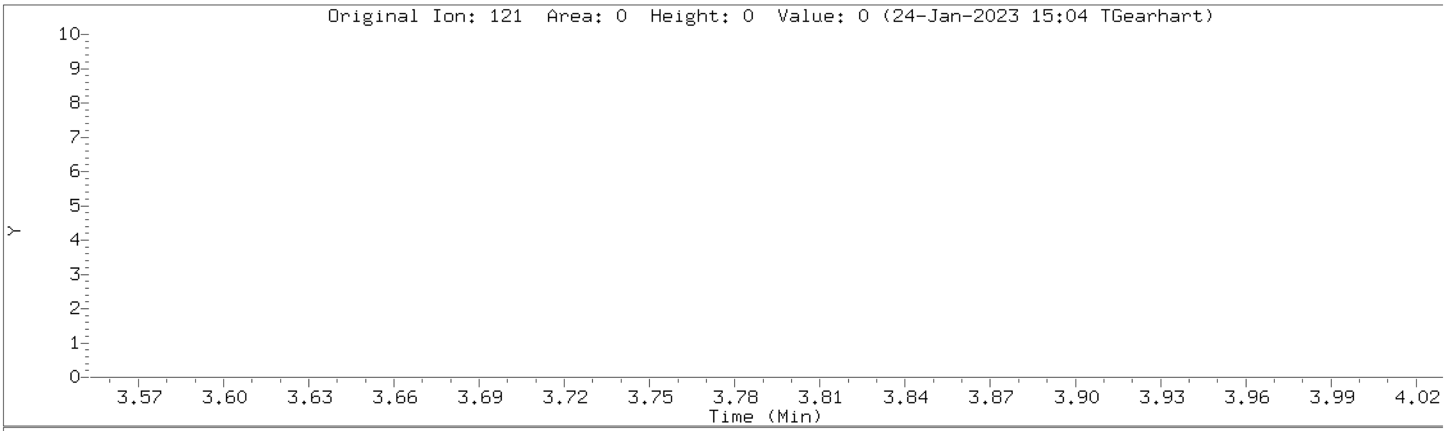
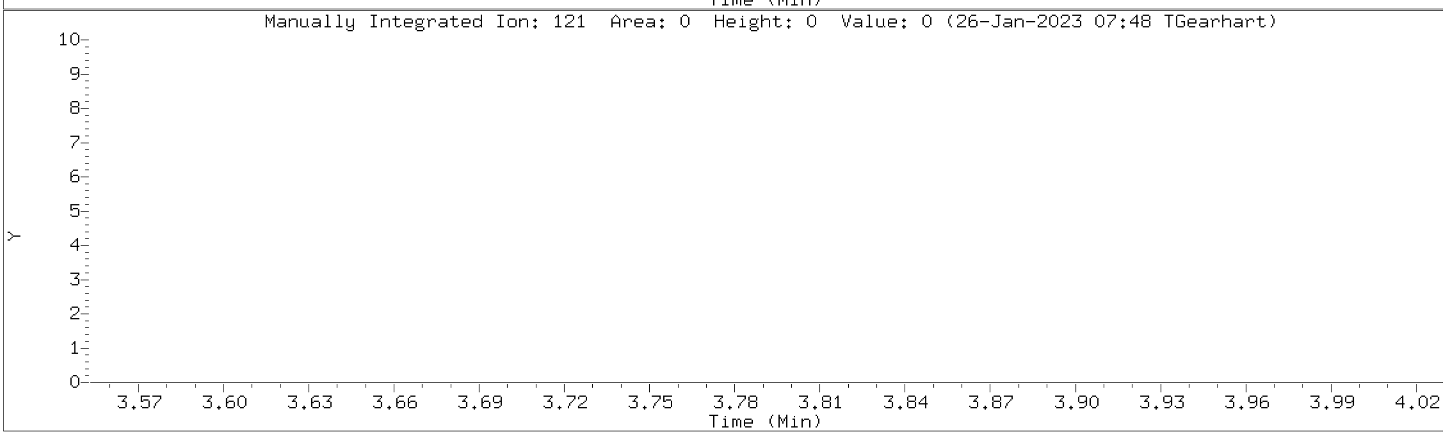
Lab Sample ID: 8260-CAL2





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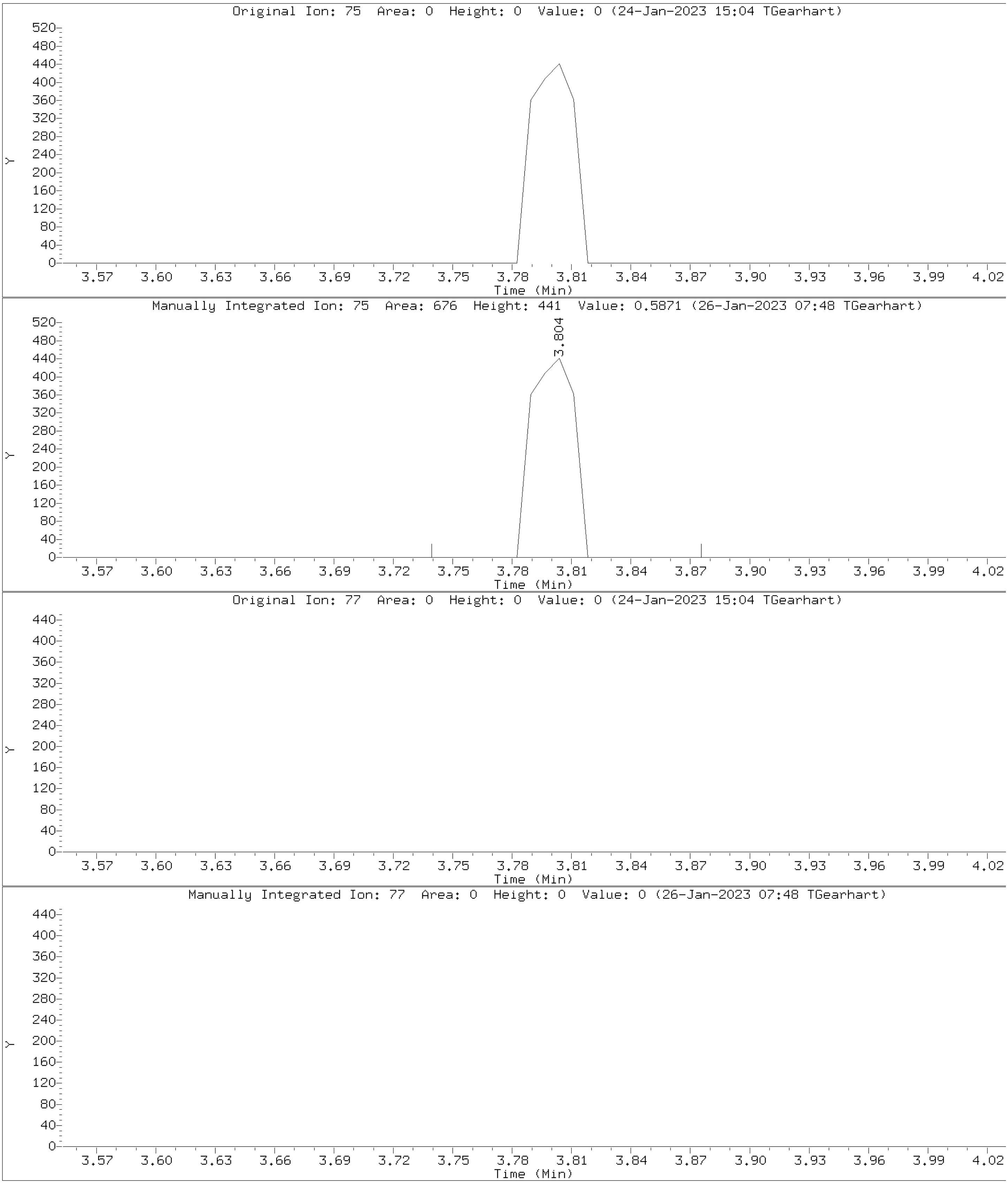
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloropropene   Review Code: NI
CAS Number: 563-58-6



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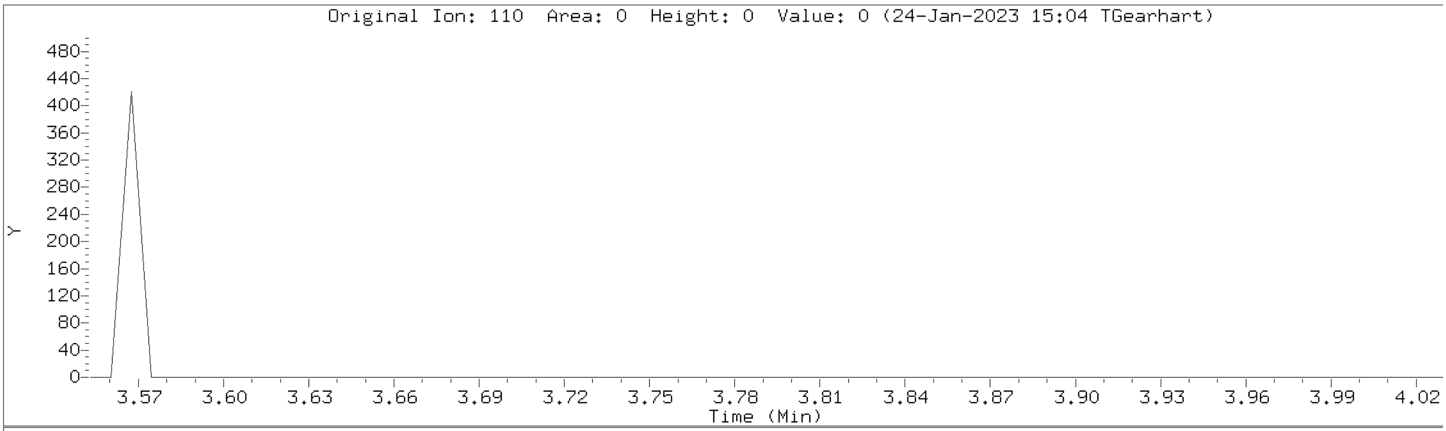
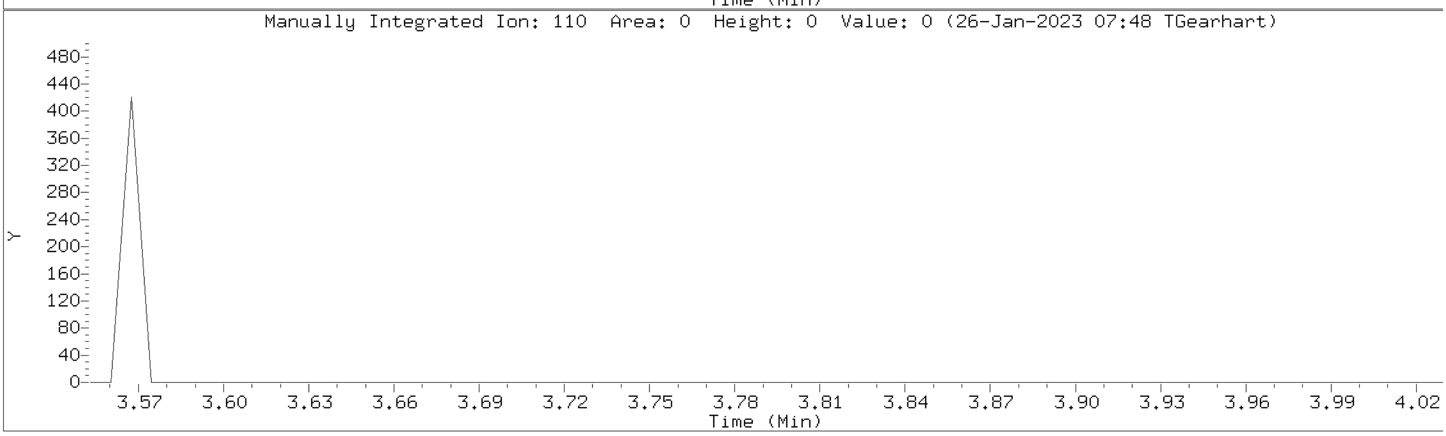
Lab Sample ID: 8260-CAL2





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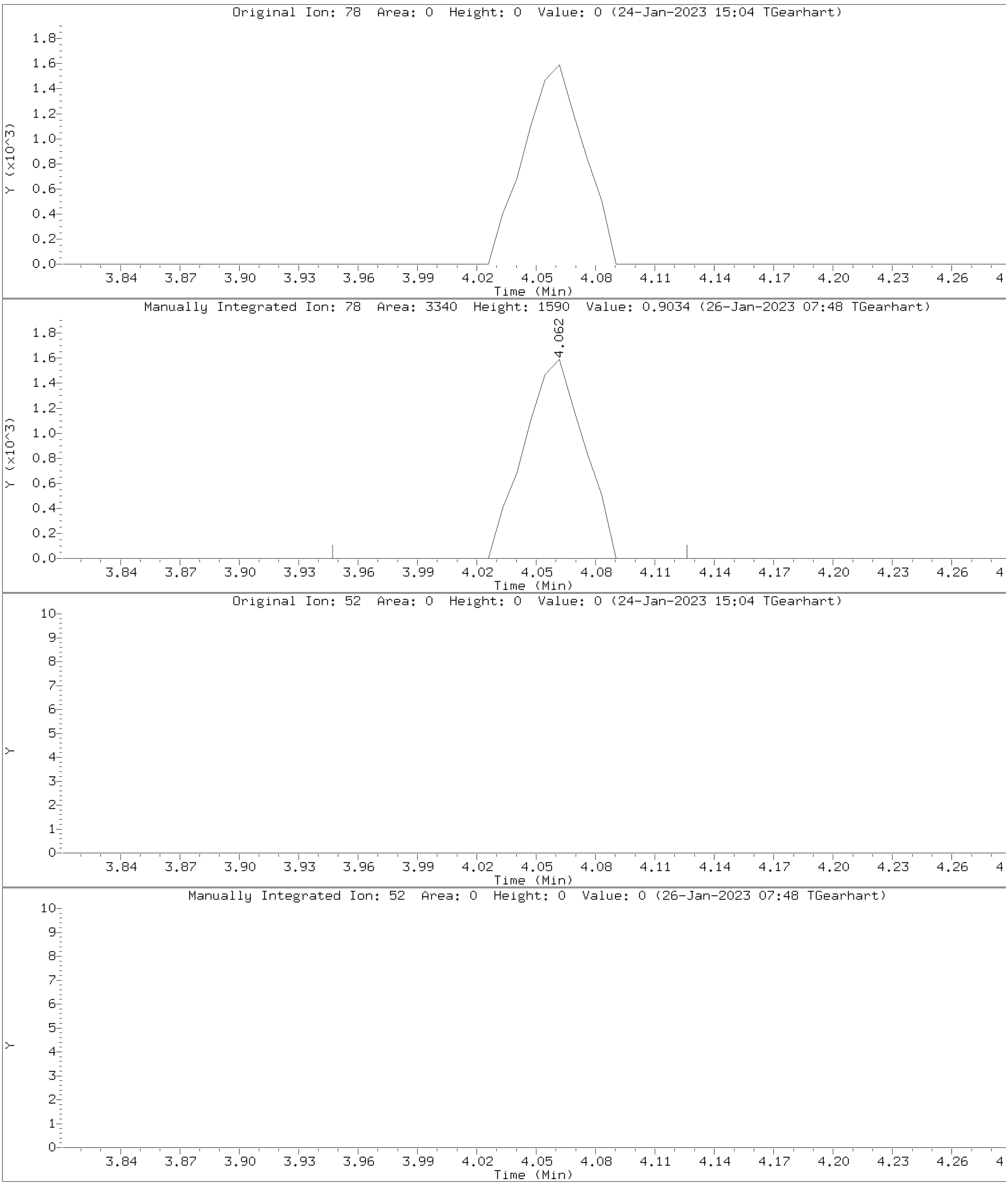
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Benzene   Review Code: NI
CAS Number: 71-43-2



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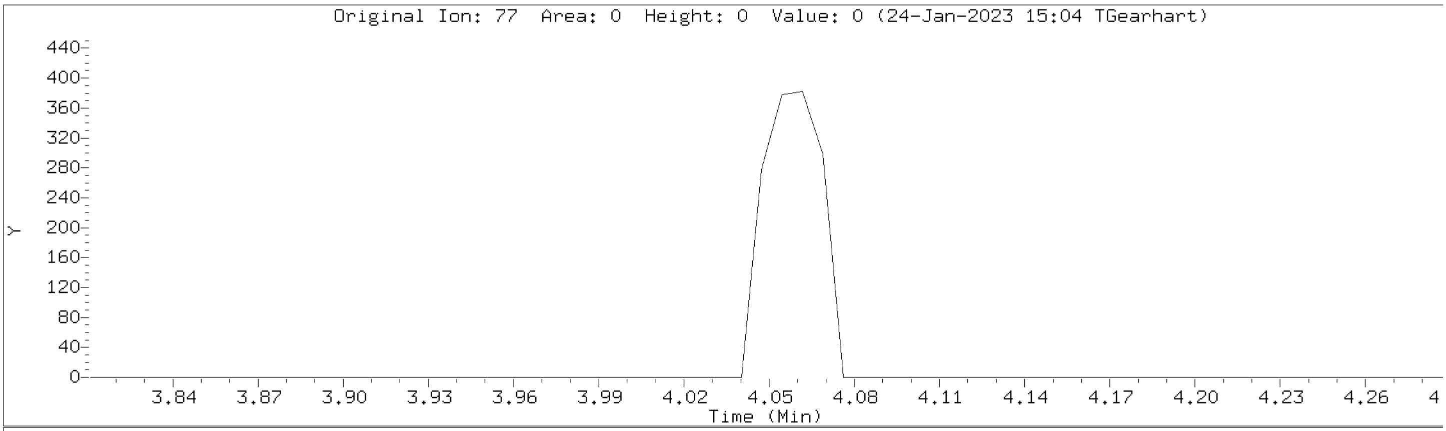
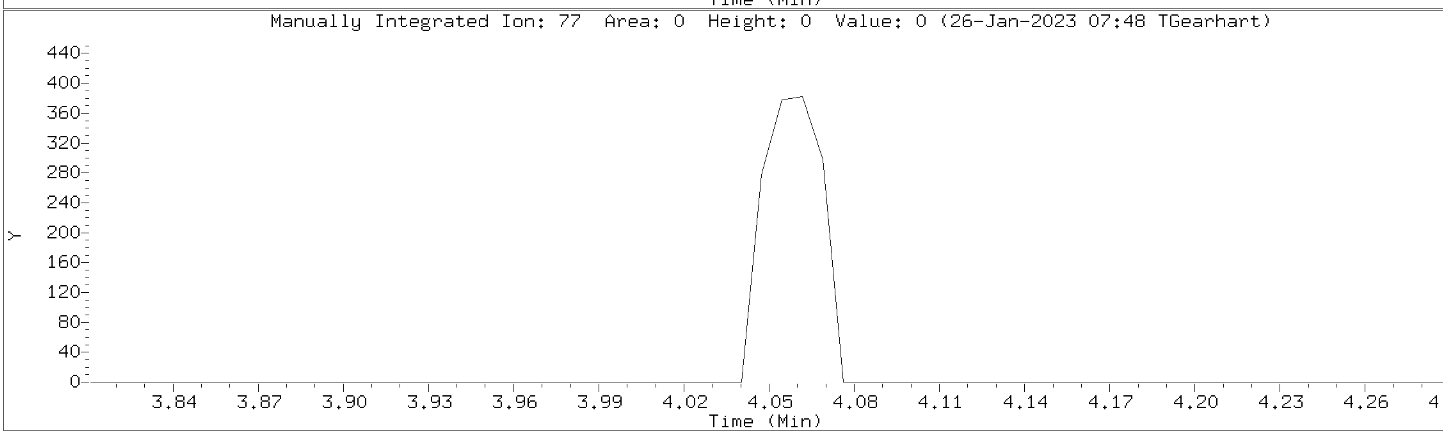
Lab Sample ID: 8260-CAL2





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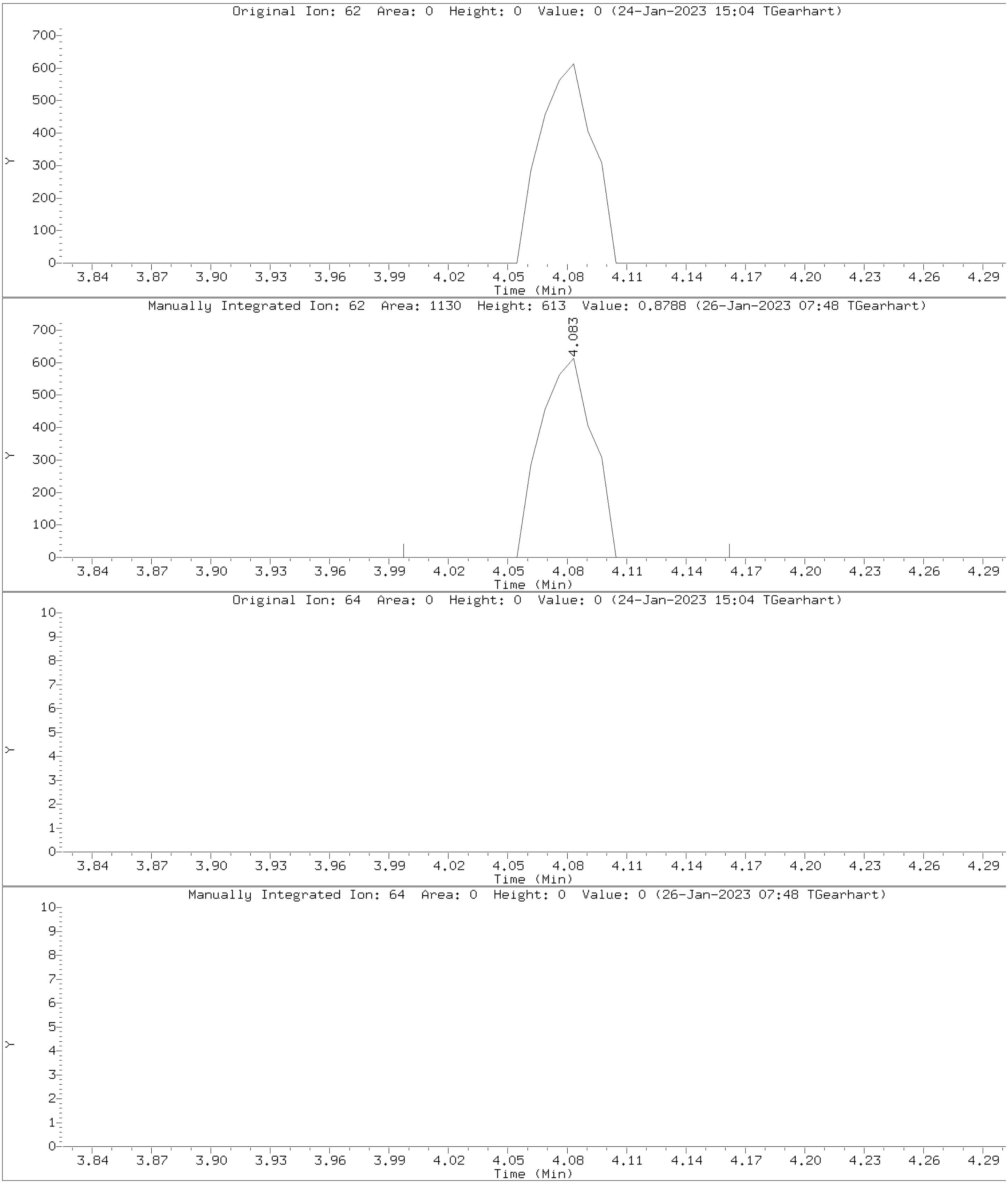
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloroethane   Review Code: NI
CAS Number: 107-06-2



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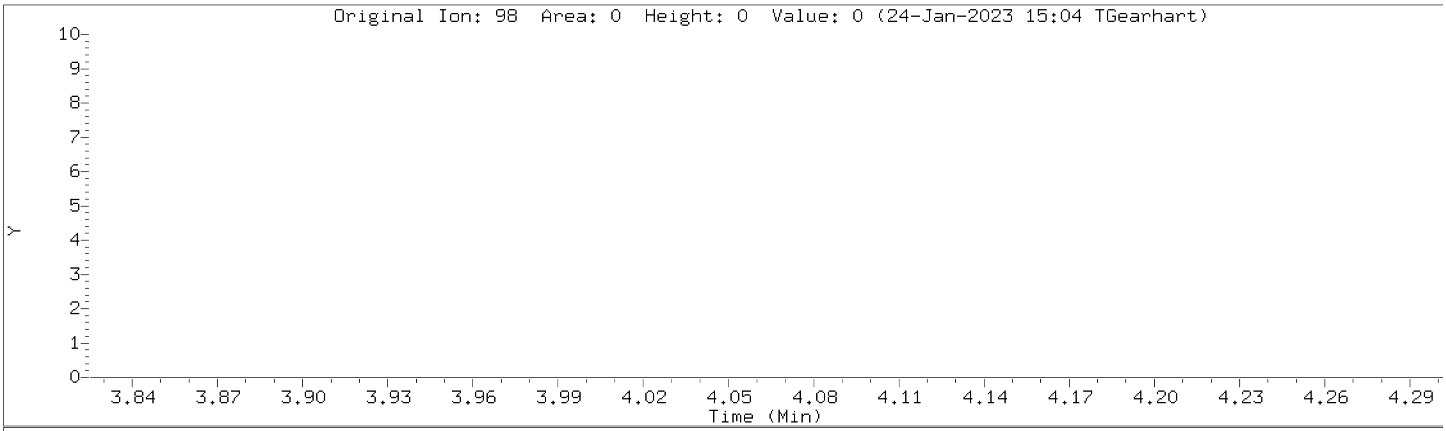
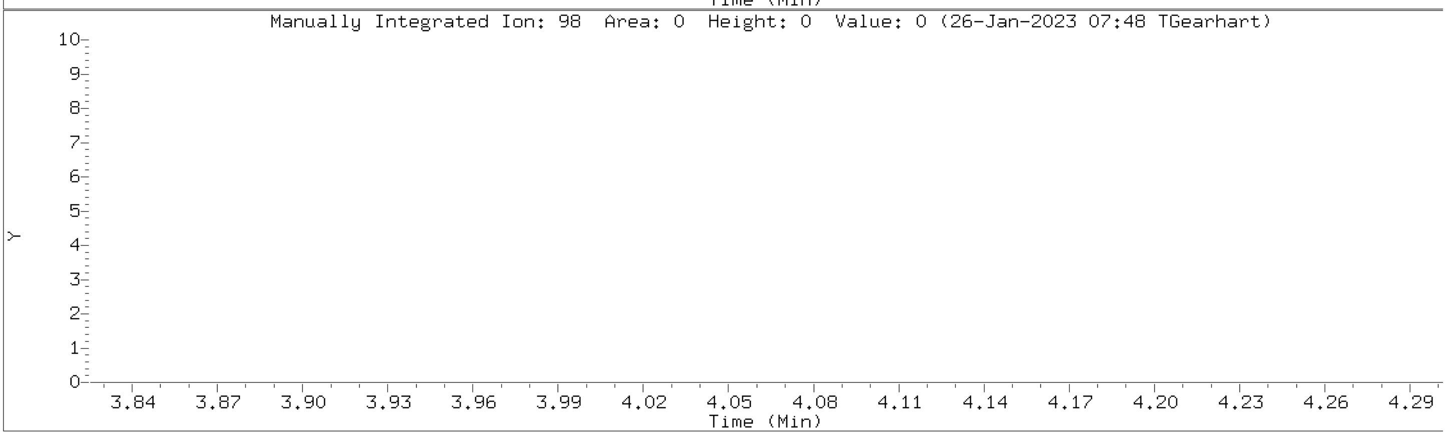
Lab Sample ID: 8260-CAL2





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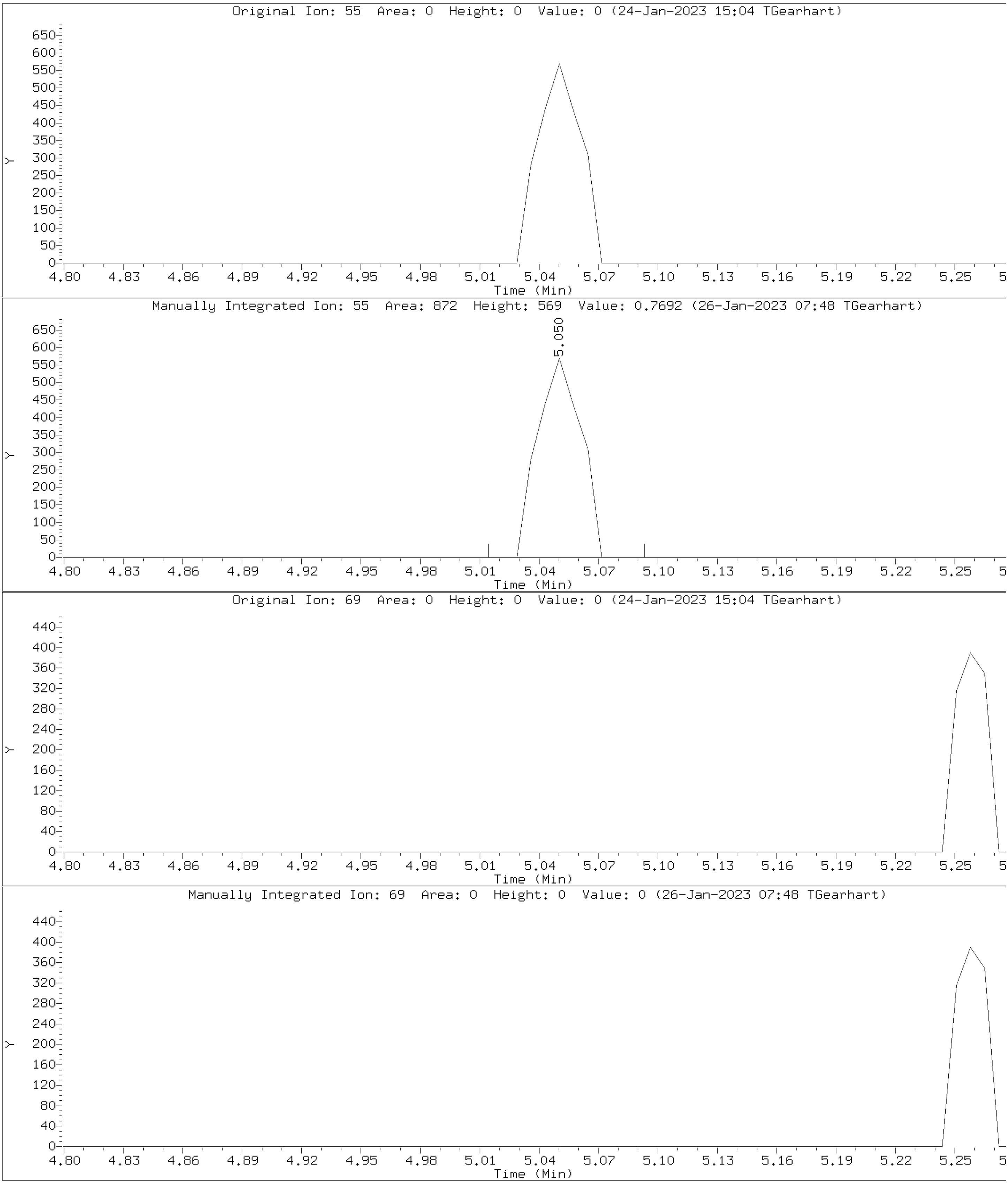
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Methylcyclohexane   Review Code: NI
CAS Number: 108-87-2



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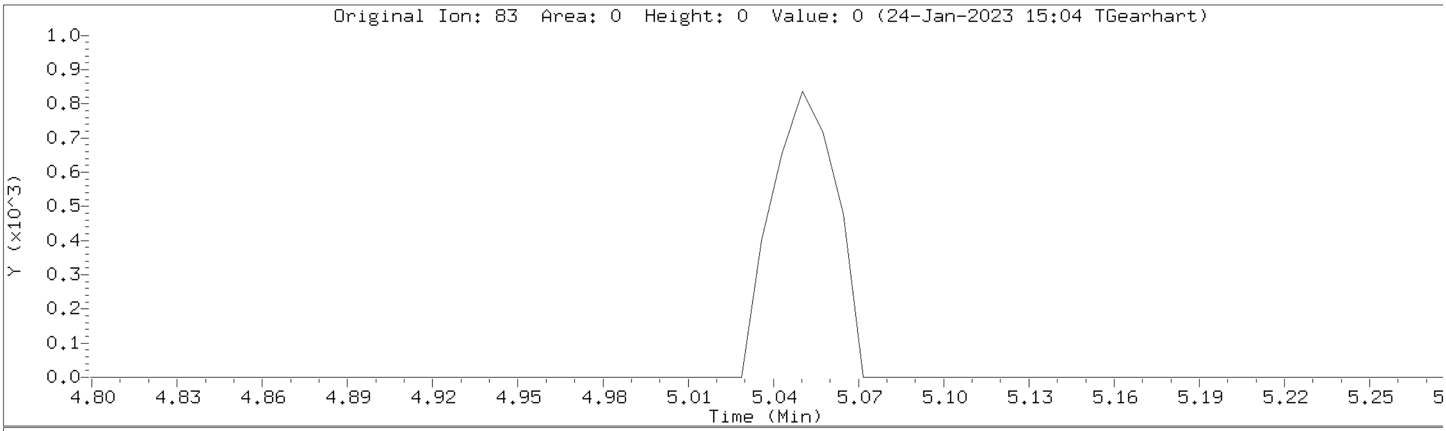
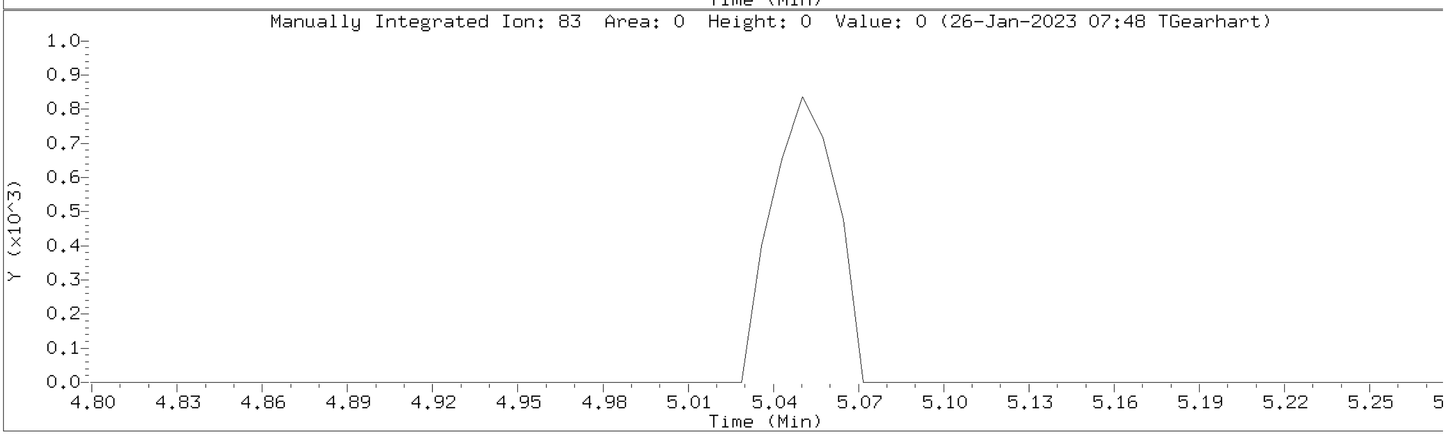
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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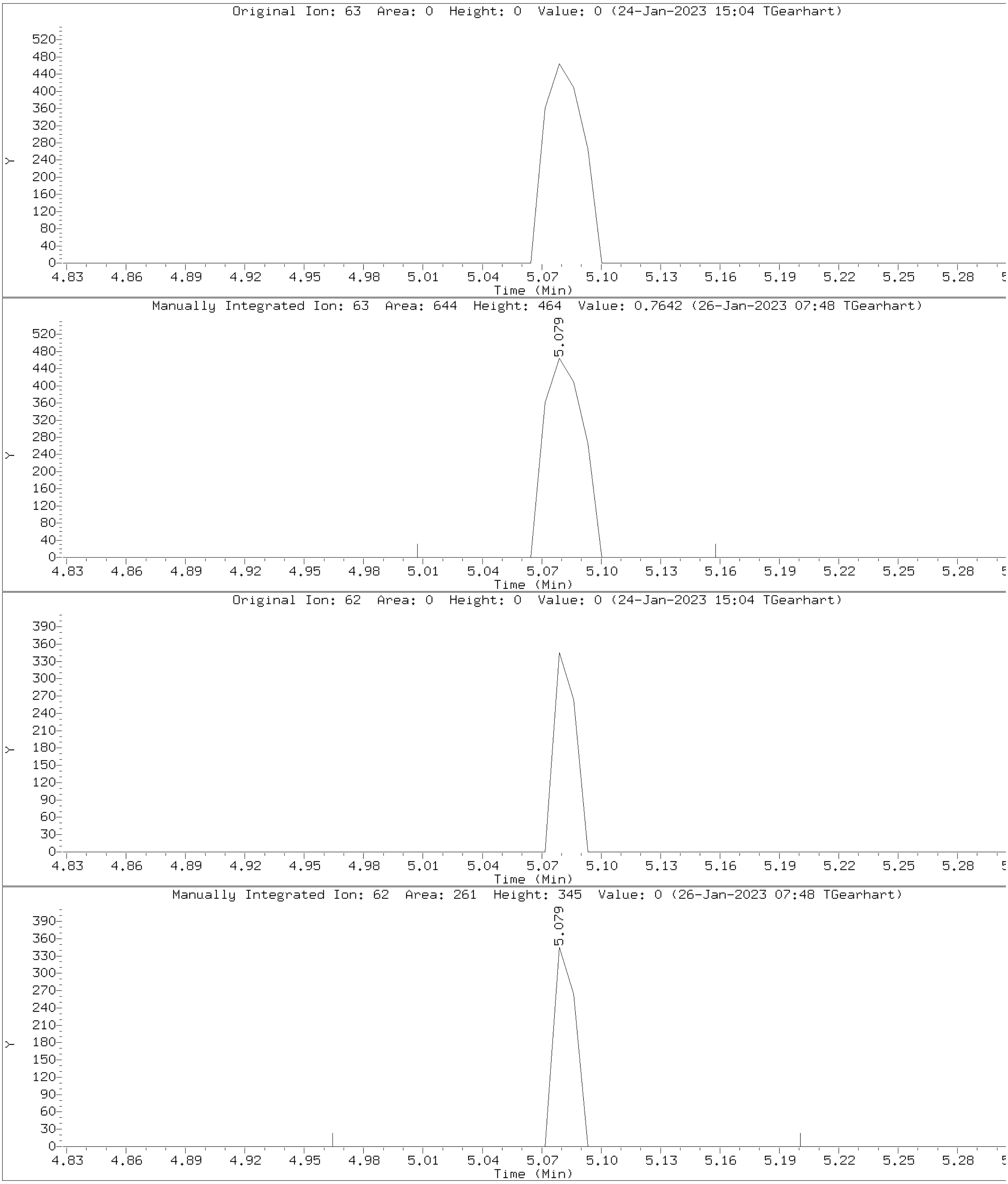
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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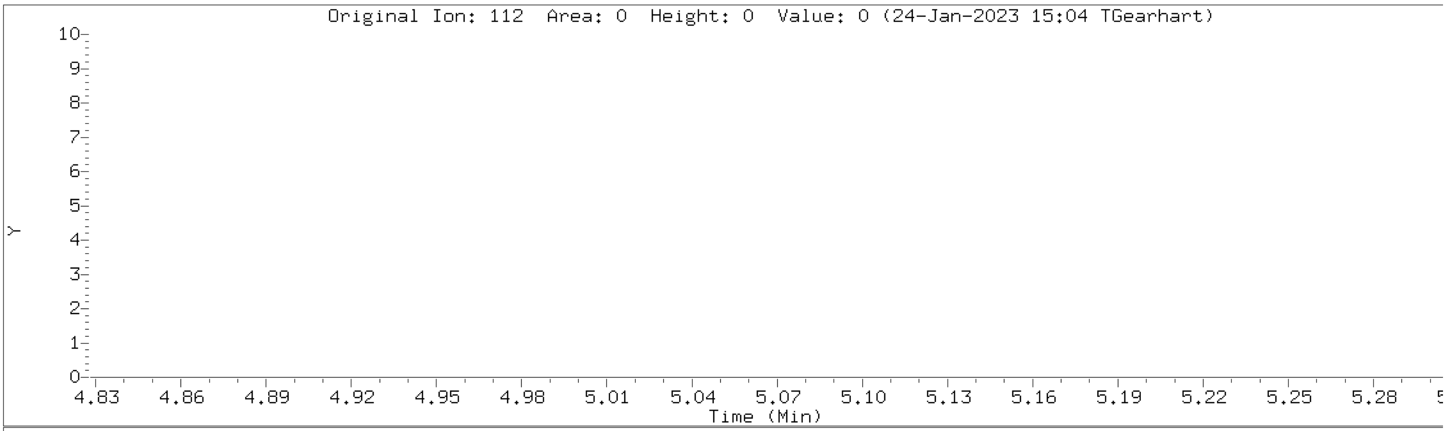
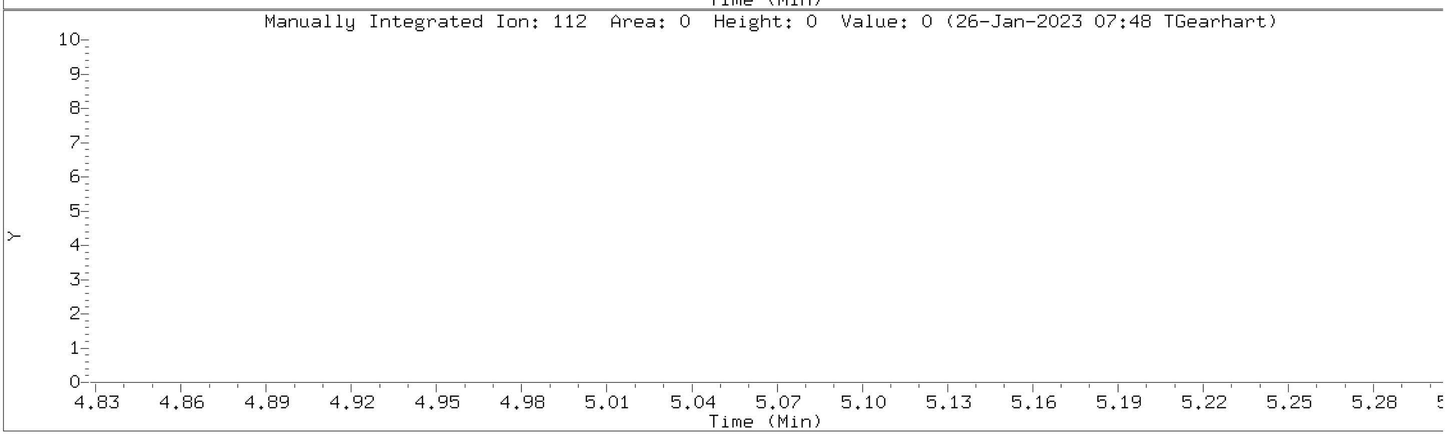
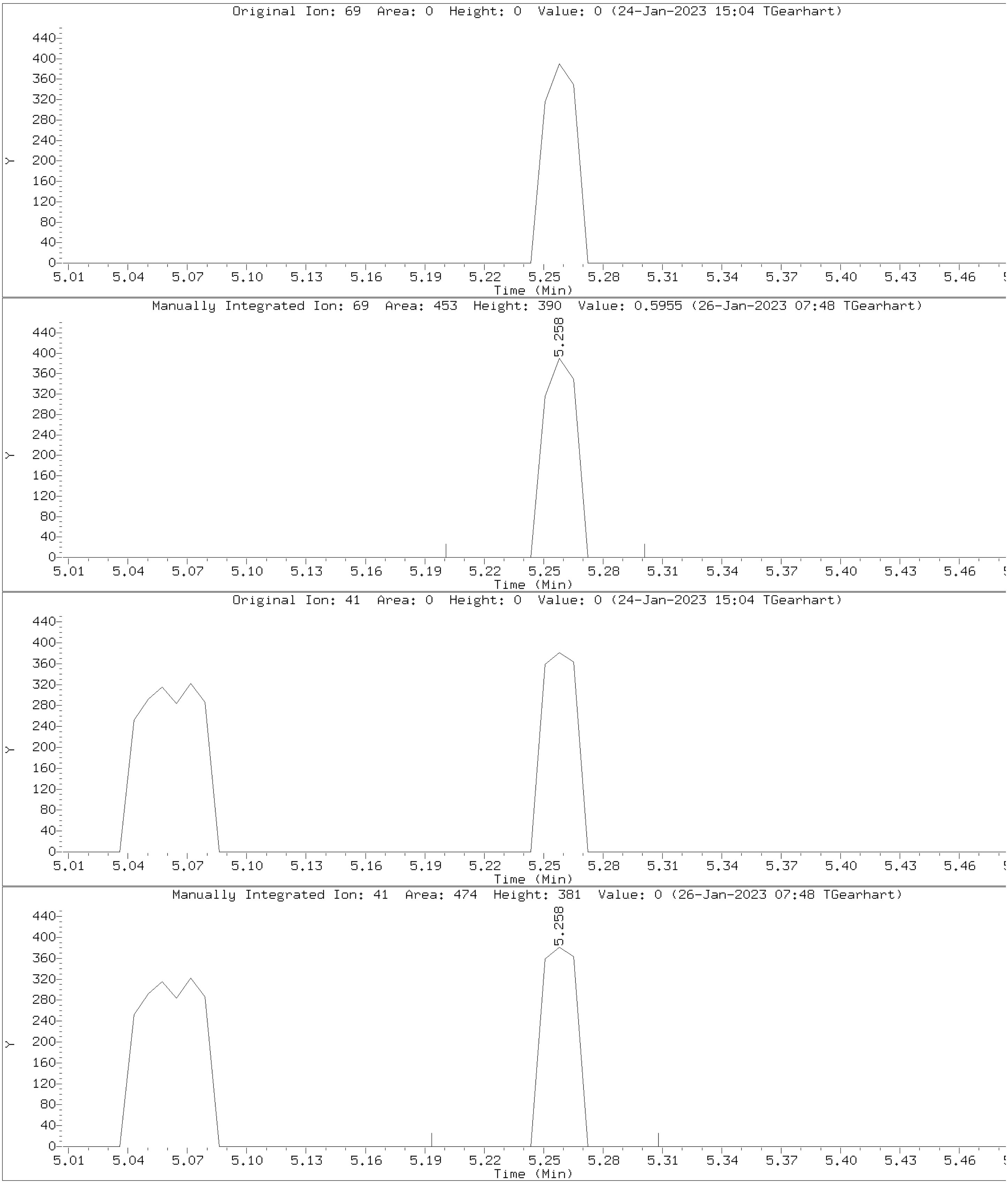
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Methyl methacrylate   Review Code: NI
CAS Number: 80-62-6



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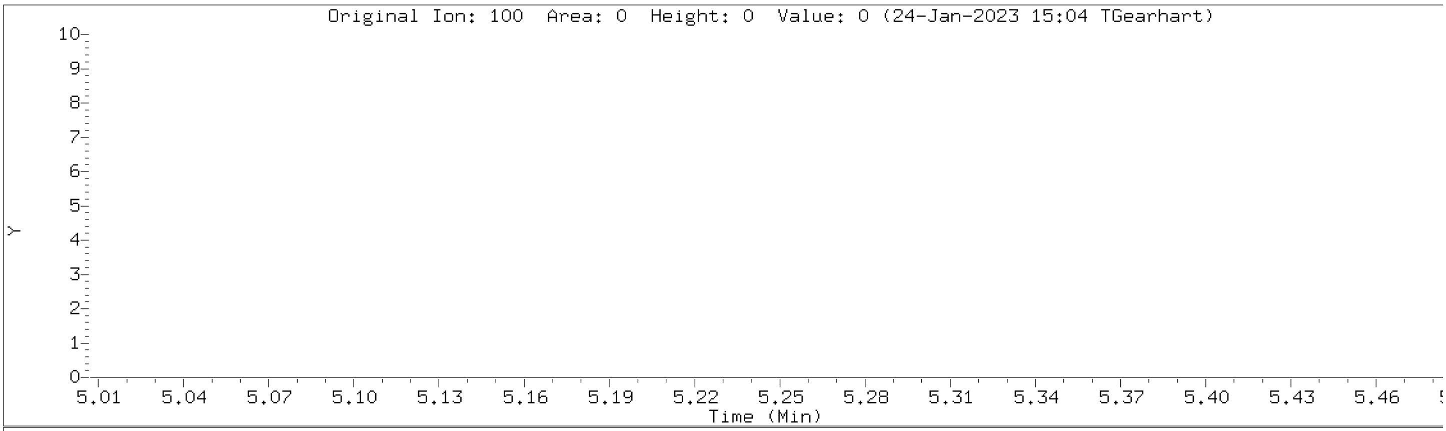
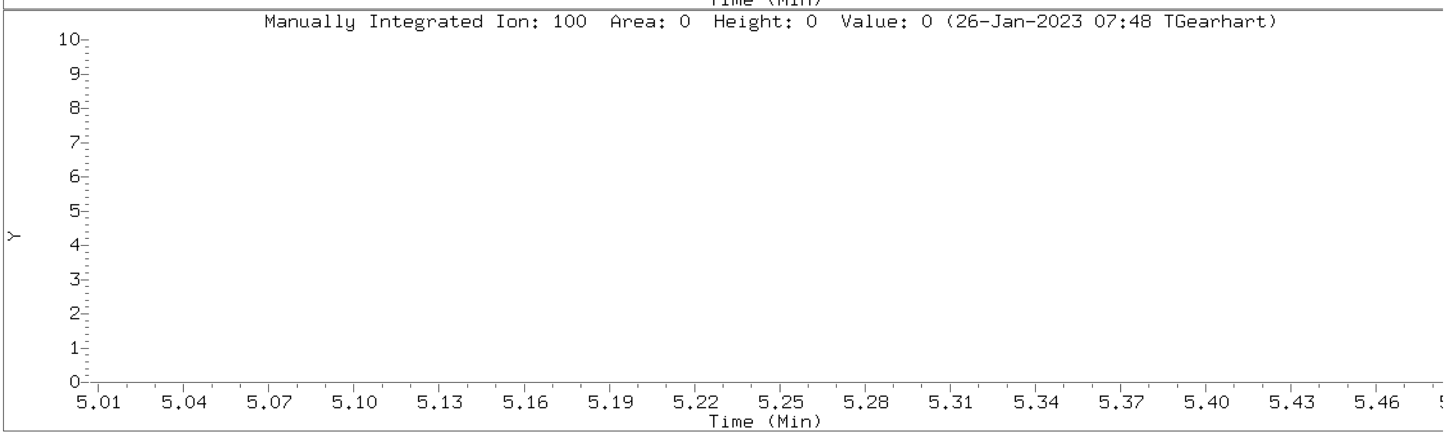
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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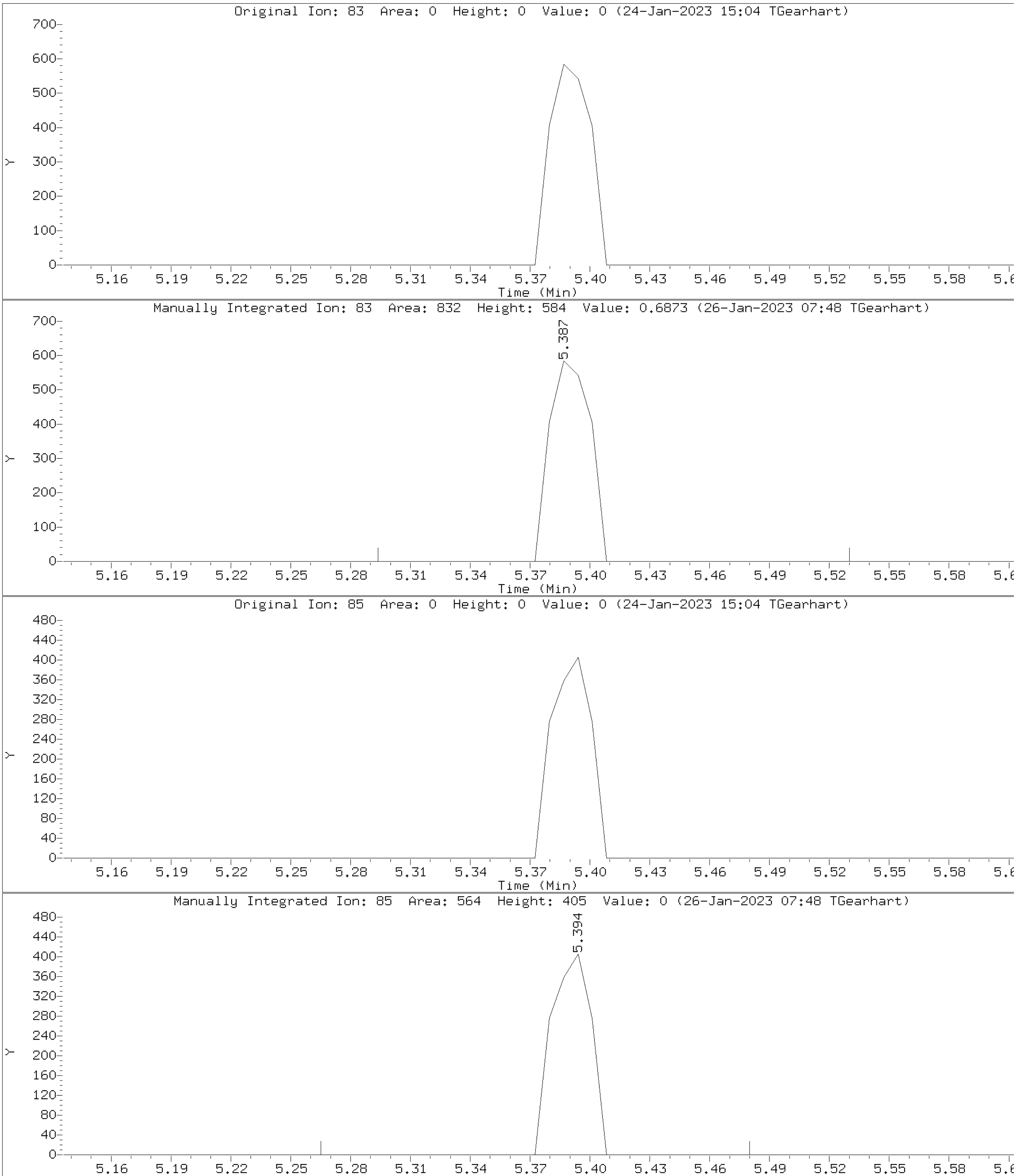
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4



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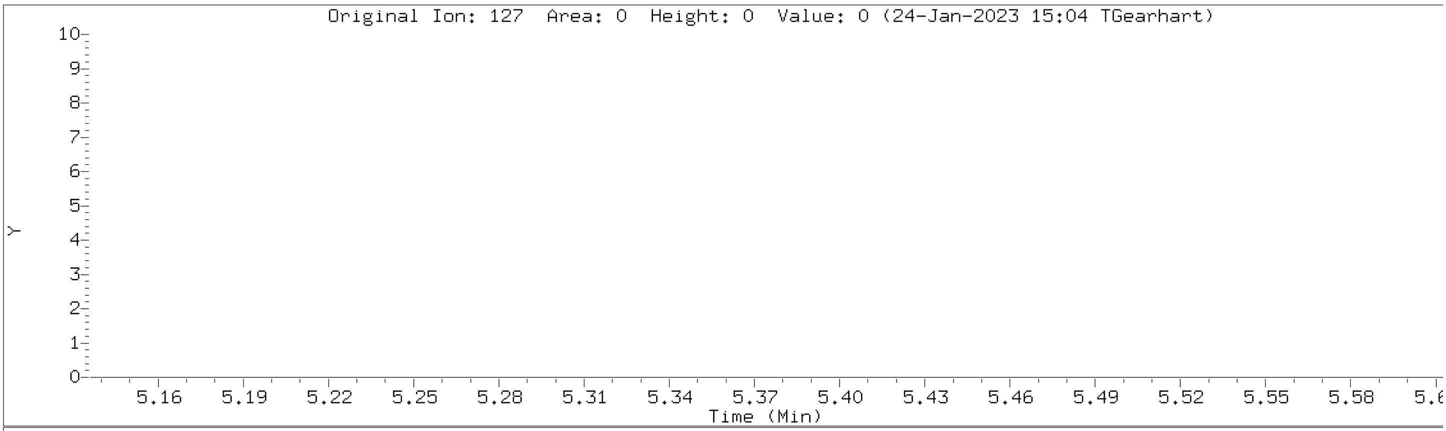
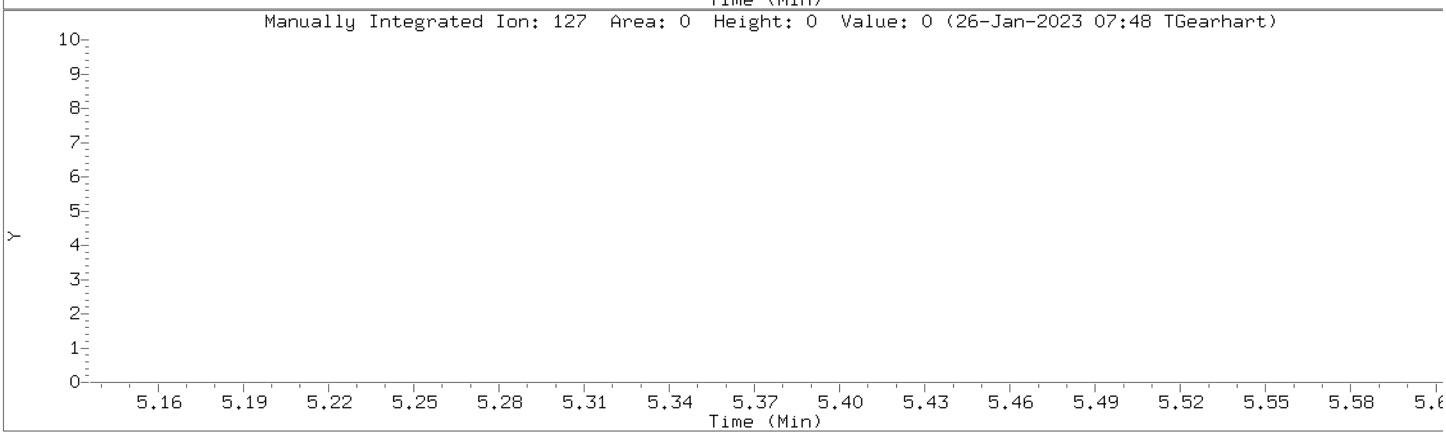
Lab Sample ID: 8260-CAL2





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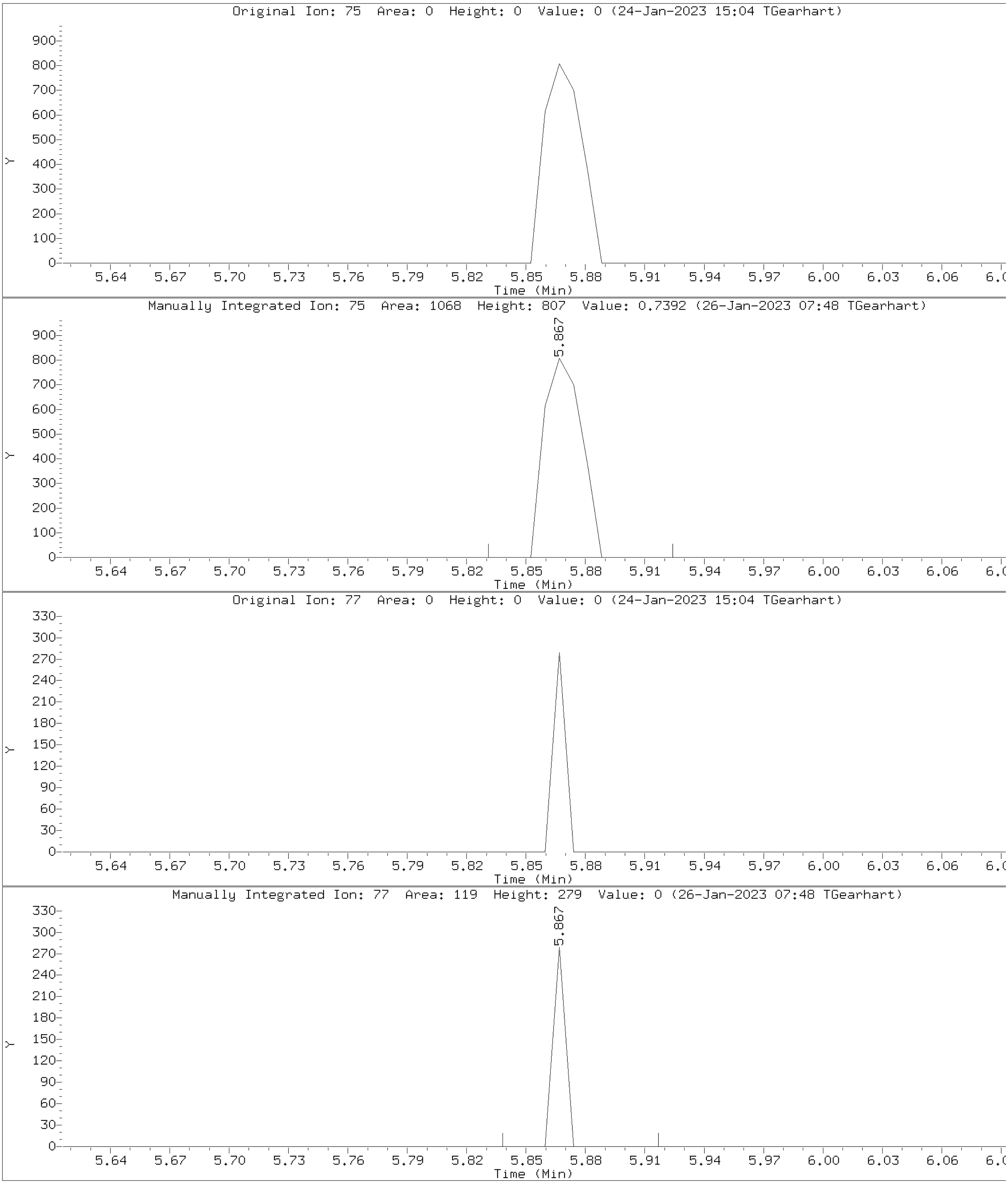
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: cis-1,3-Dichloropropene   Review Code: NI
CAS Number: 10061-01-5



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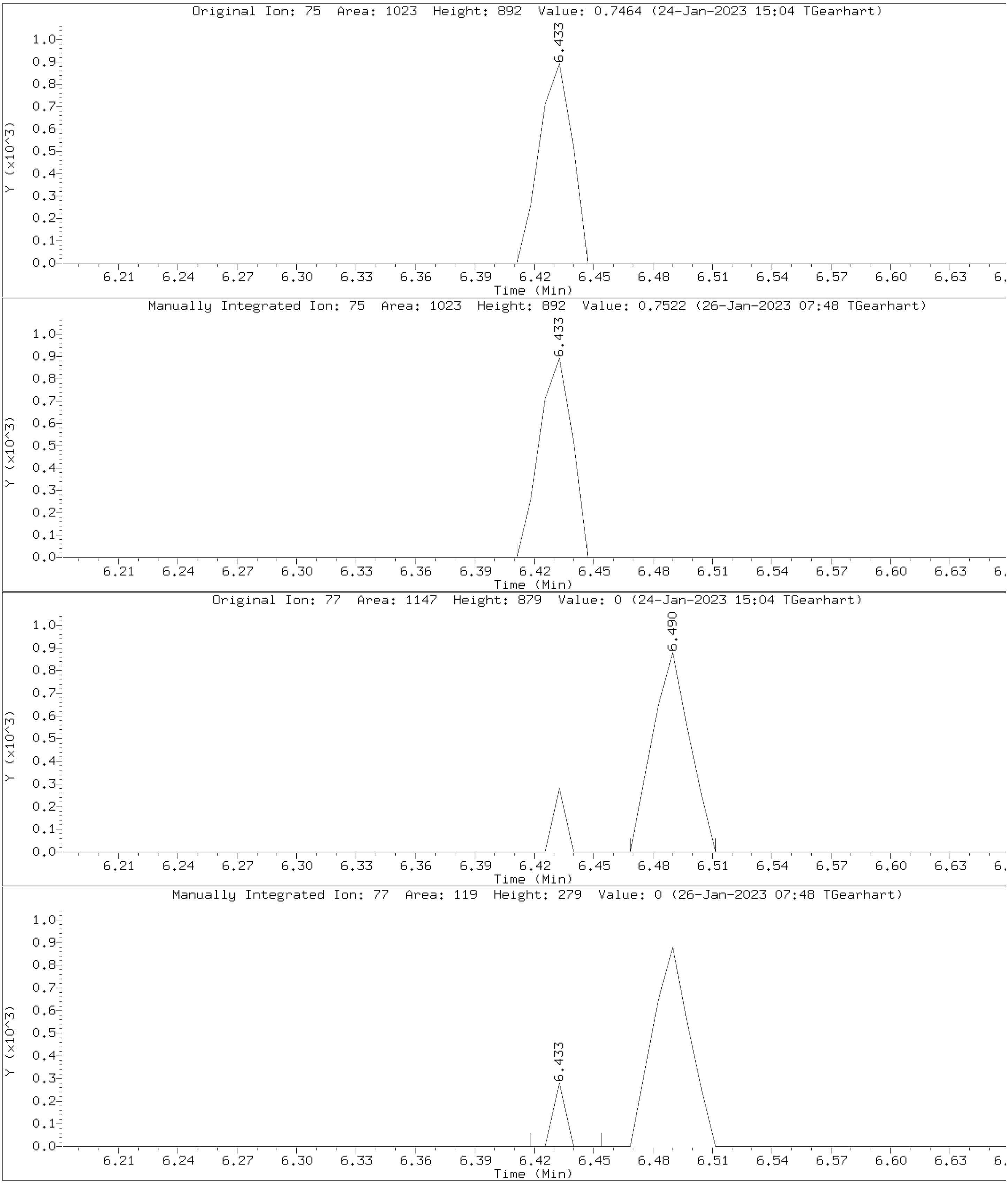
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,3-Dichloropropene Review Code: WP
CAS Number: 10061-02-6



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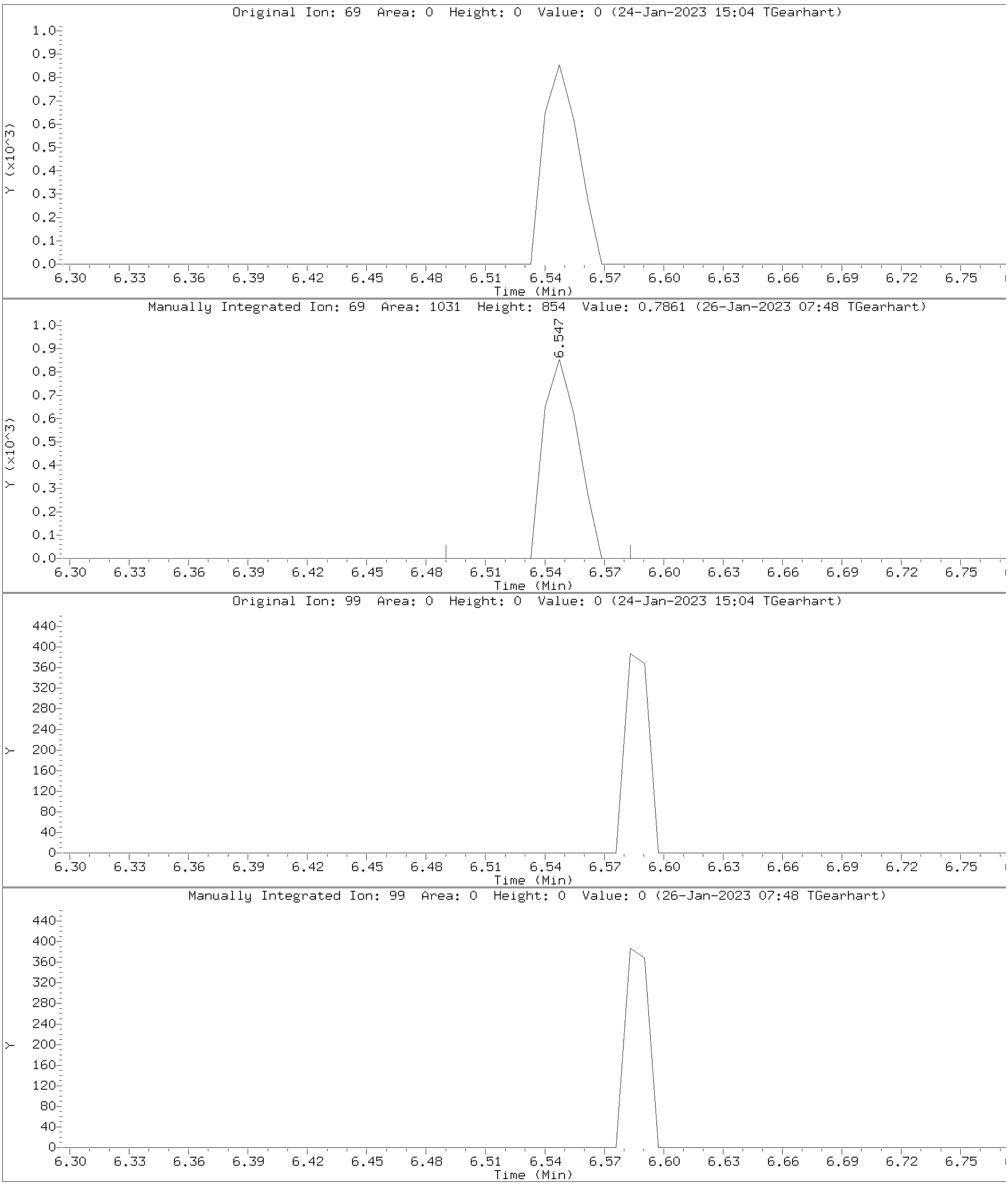
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



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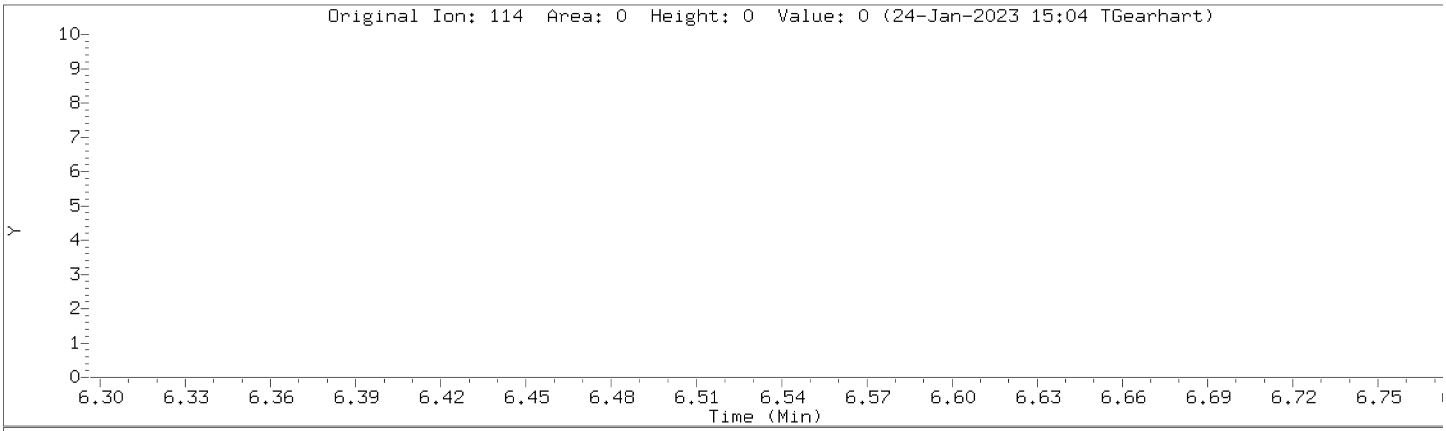
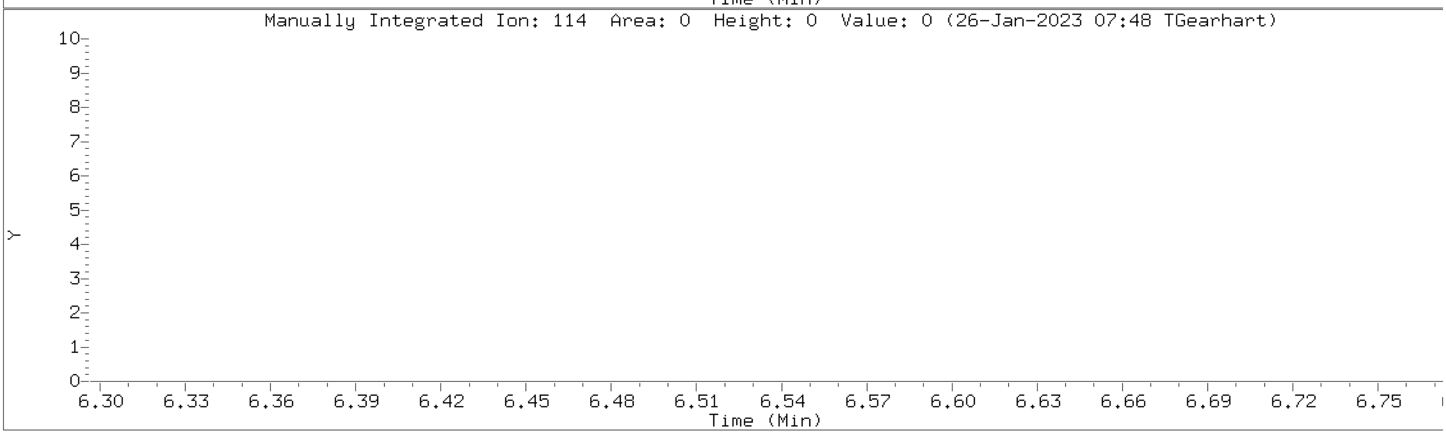
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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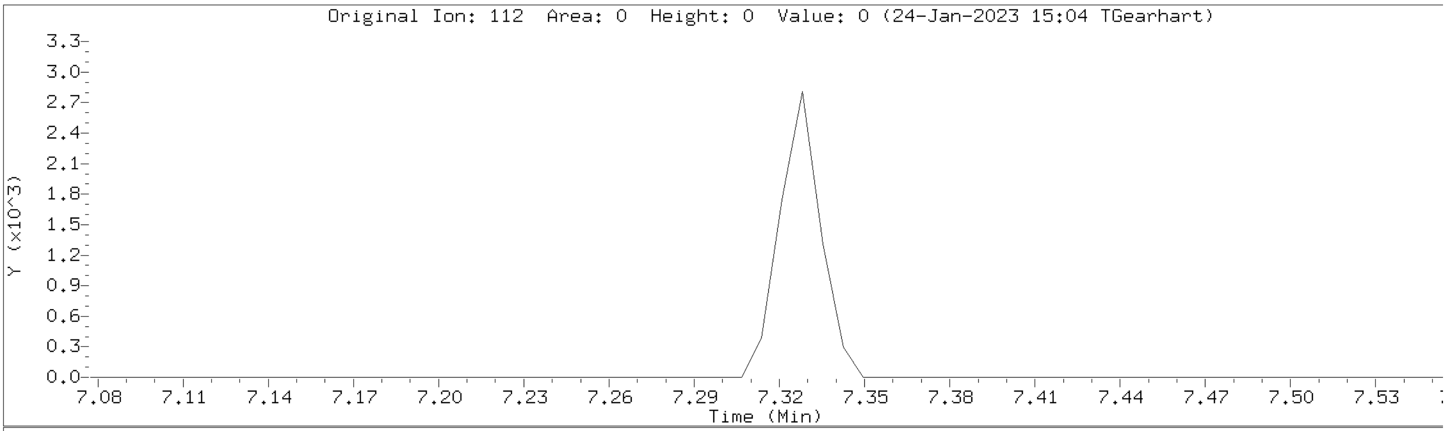
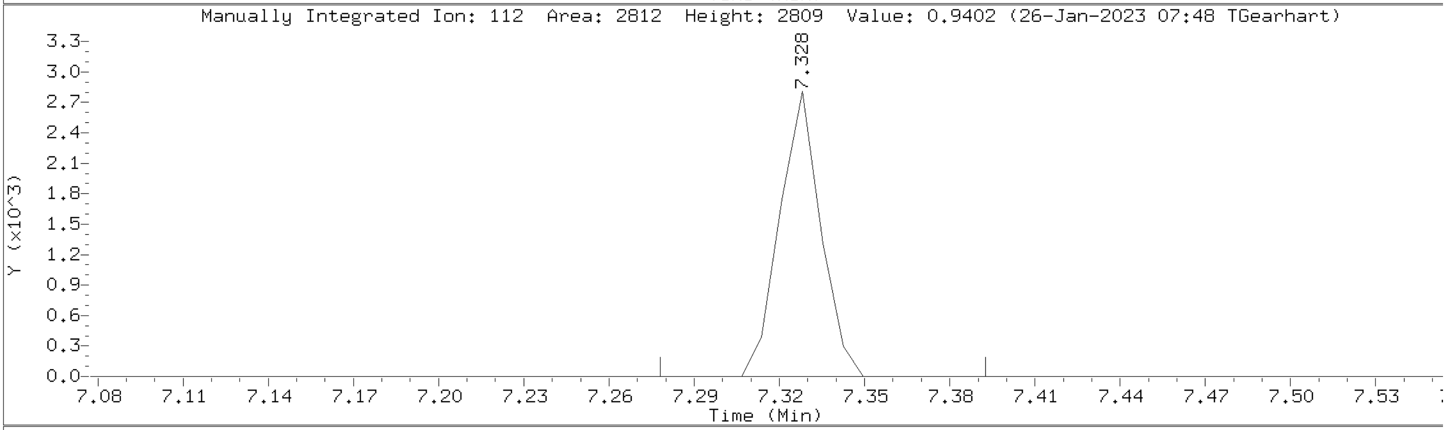
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Chlorobenzene   Review Code: NI
CAS Number: 108-90-7

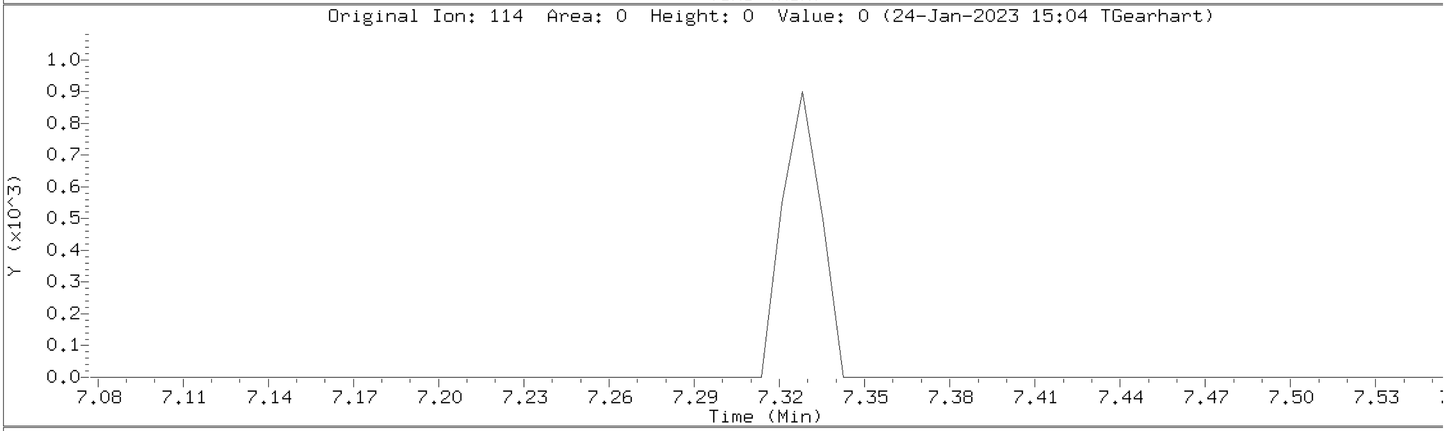
Original Ion: 112 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



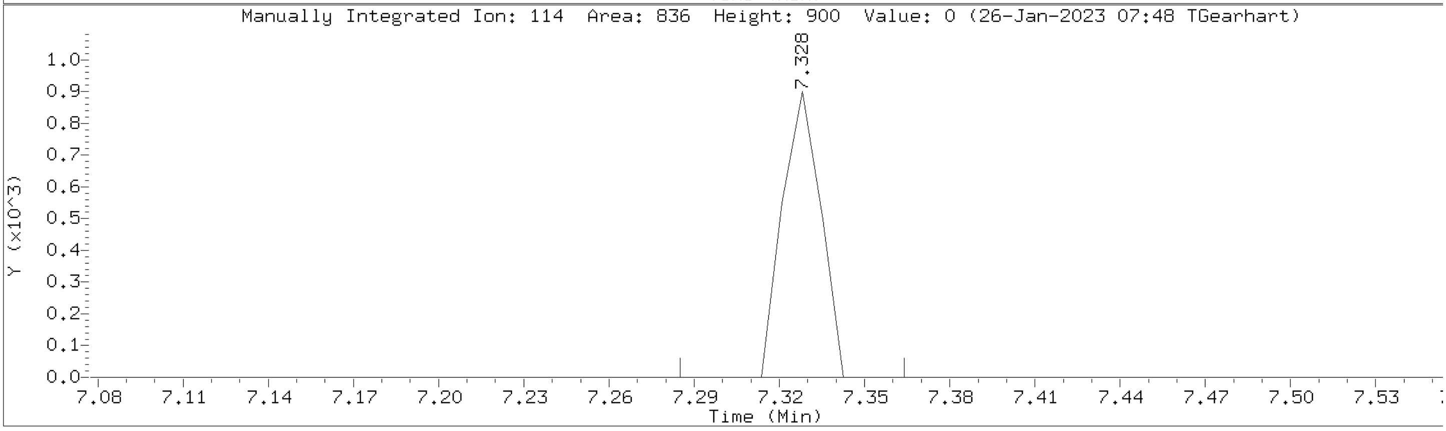
Manually Integrated Ion: 112 Area: 2812 Height: 2809 Value: 0.9402 (26-Jan-2023 07:48 TGearhart)



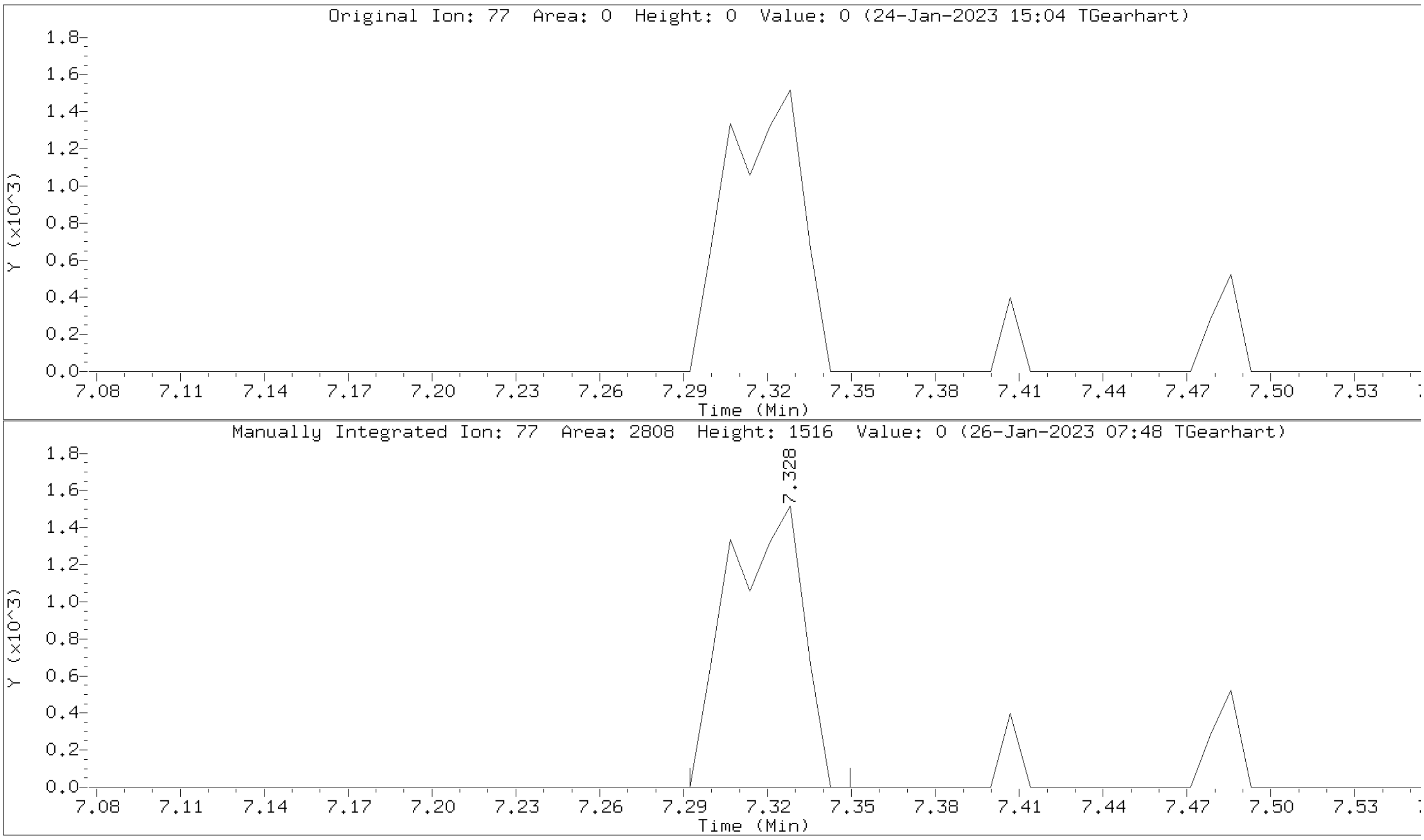
Original Ion: 114 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 114 Area: 836 Height: 900 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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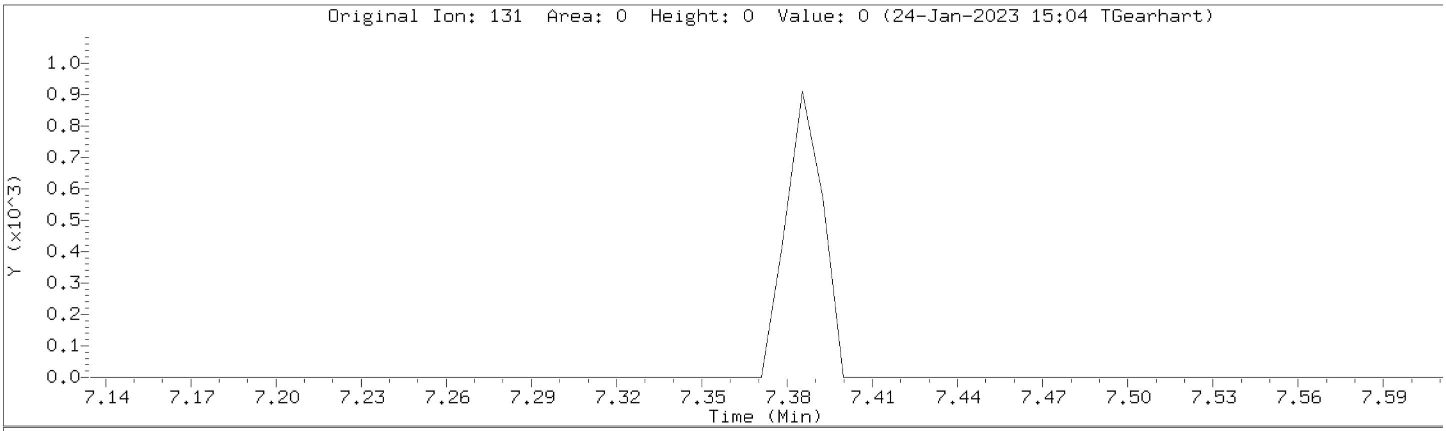
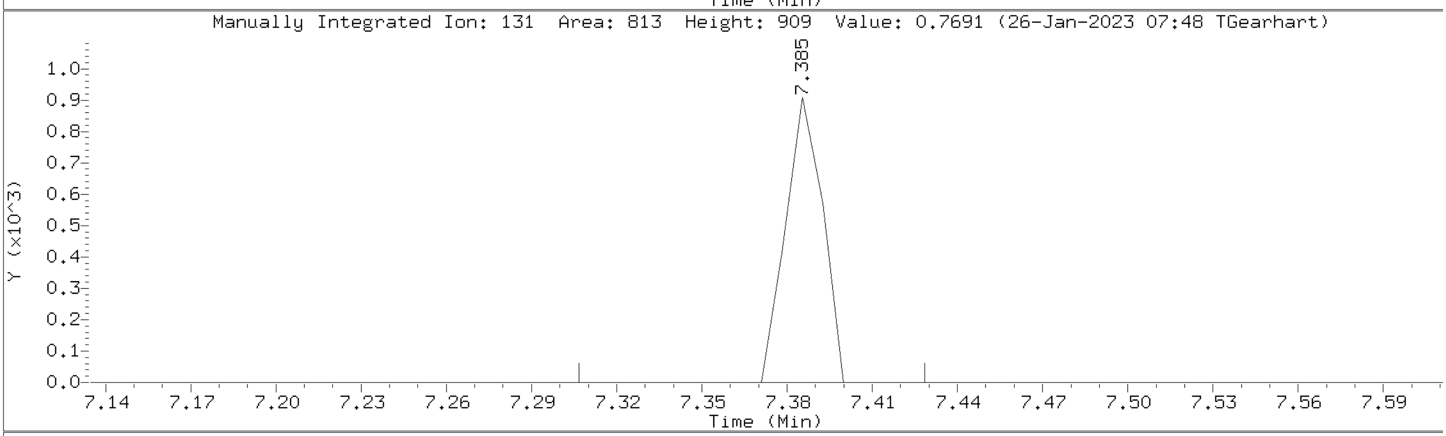
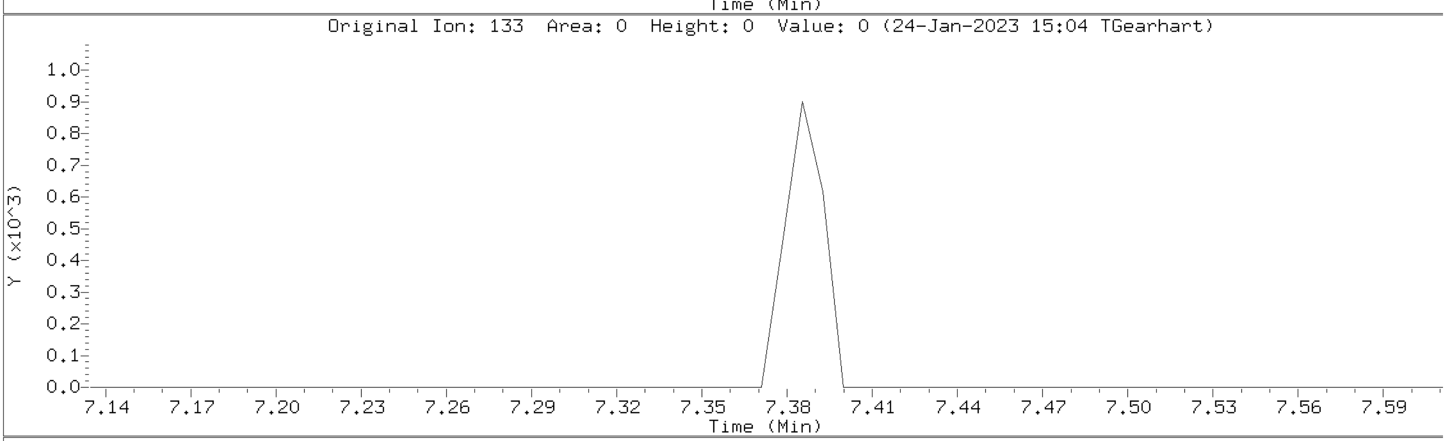
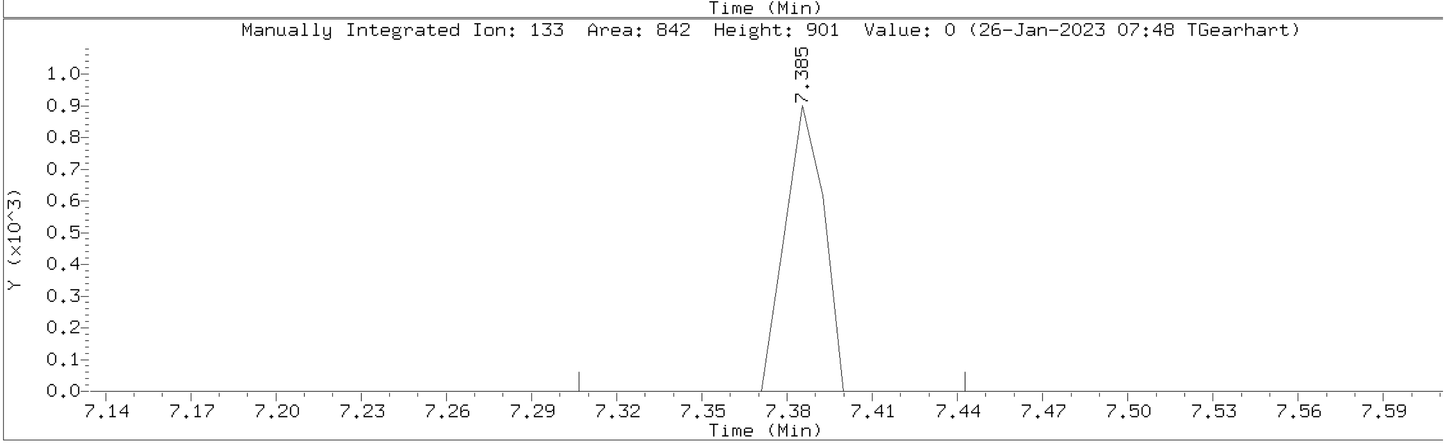
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,1,2-Tetrachloroethane   Review Code: NI
CAS Number: 630-20-6









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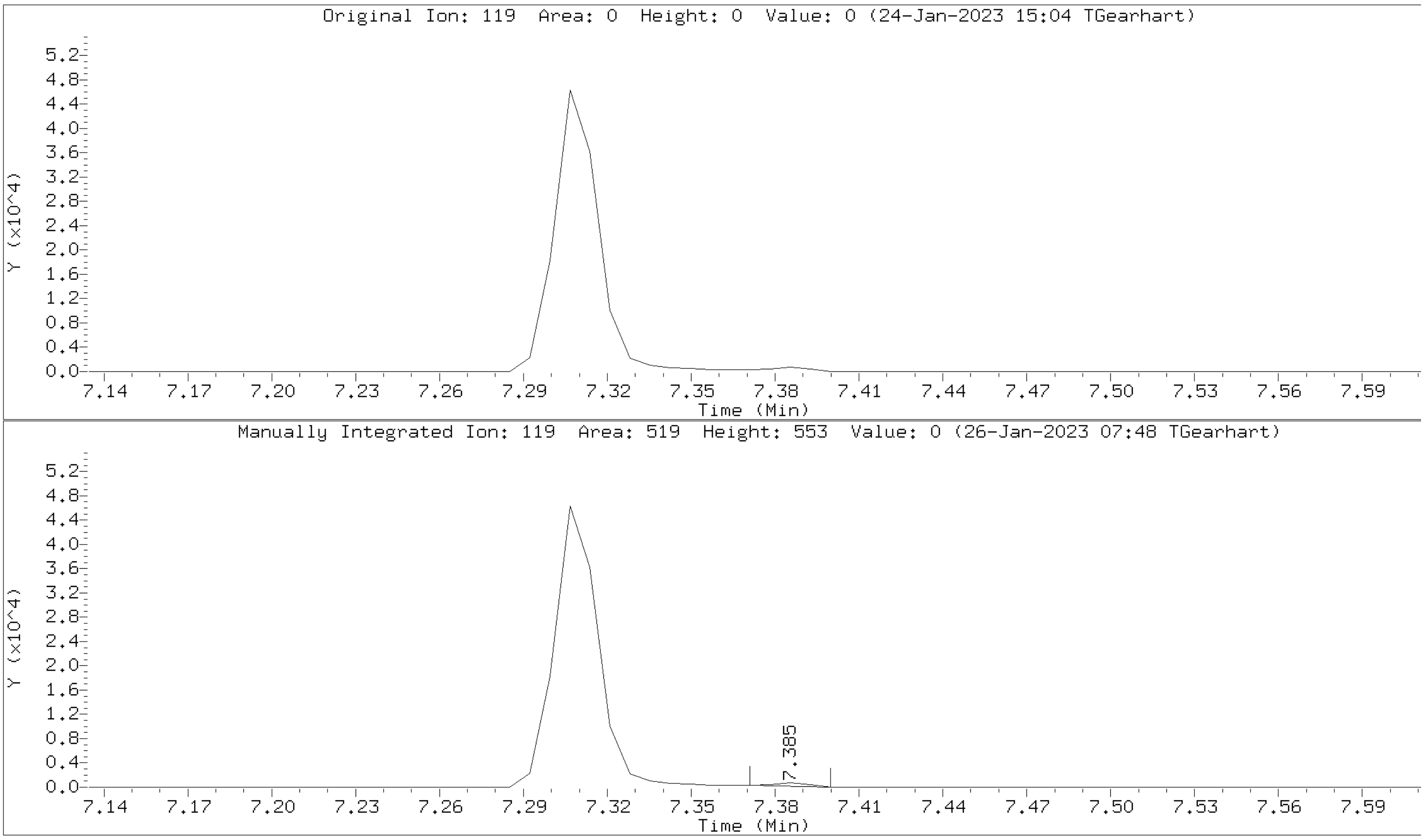
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



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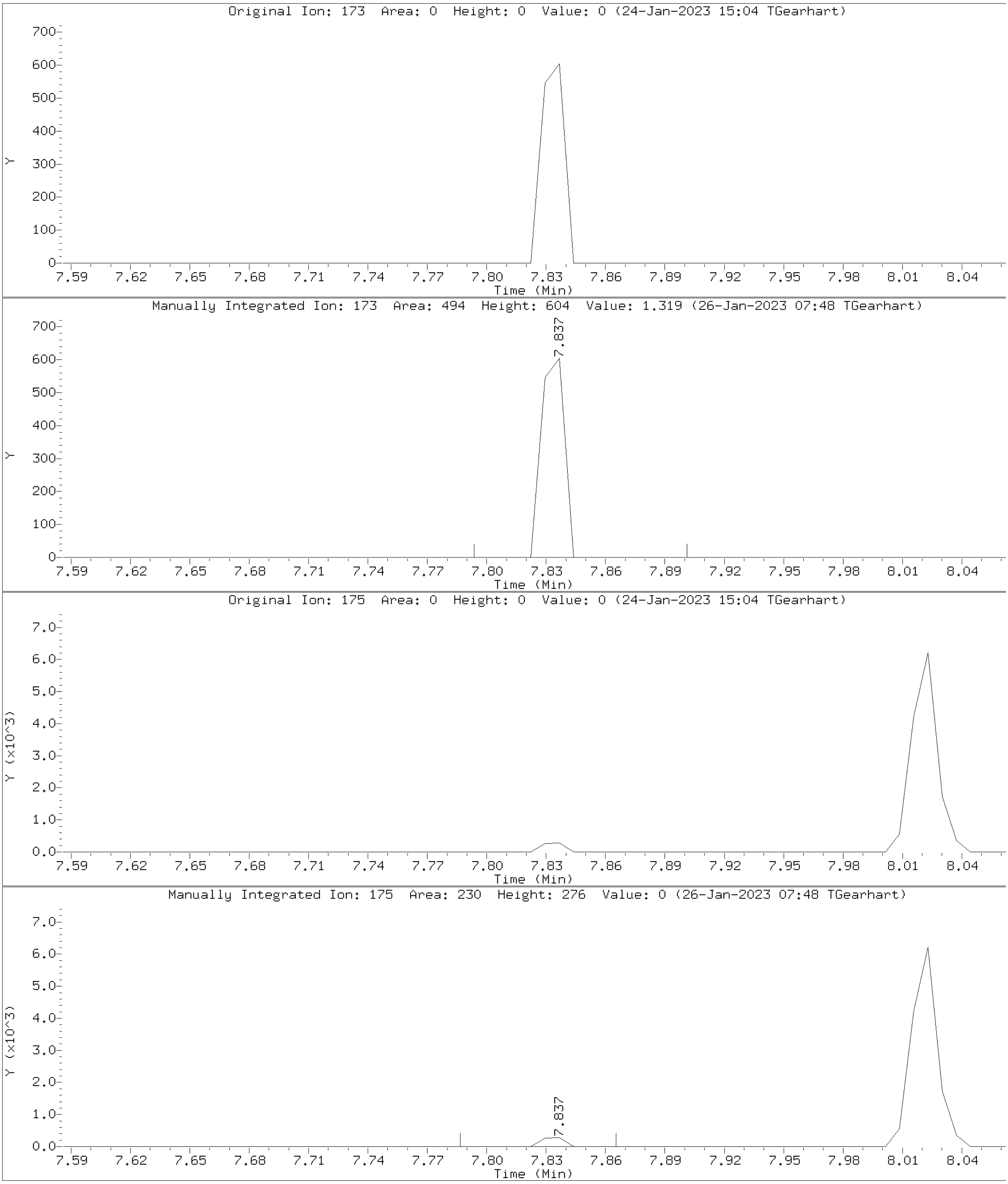
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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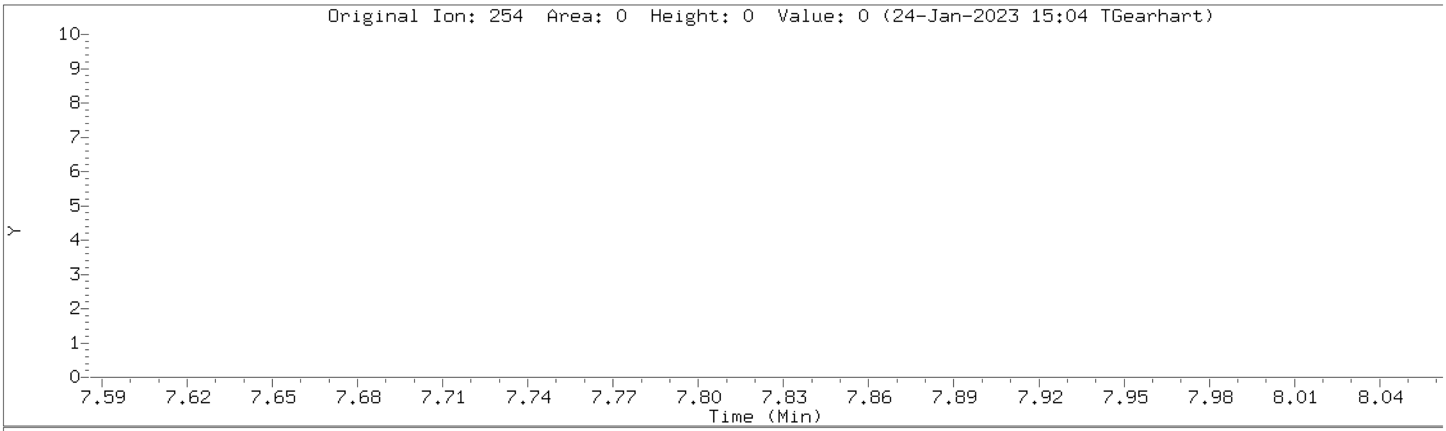
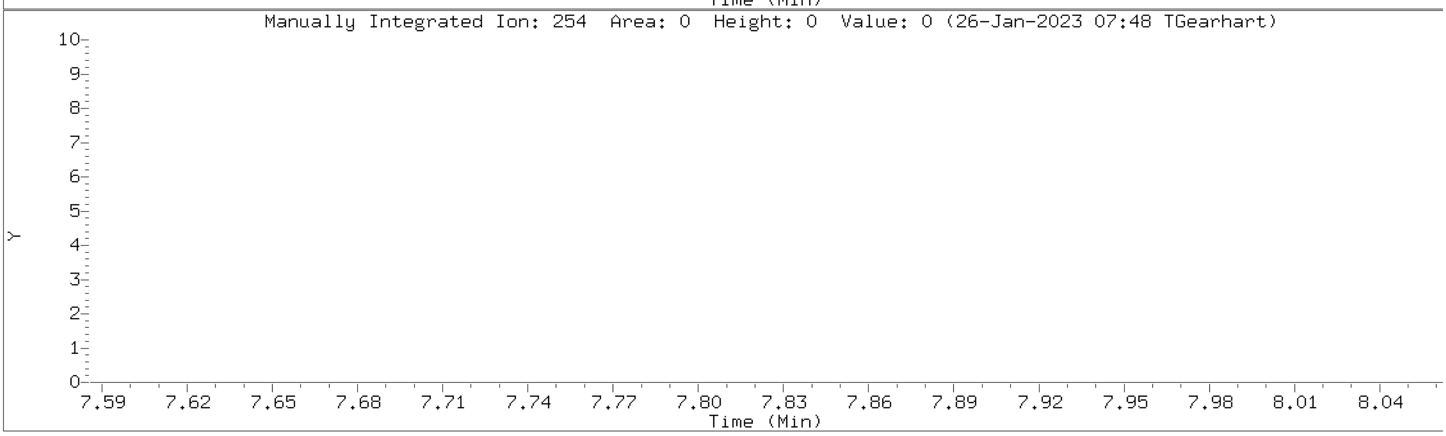
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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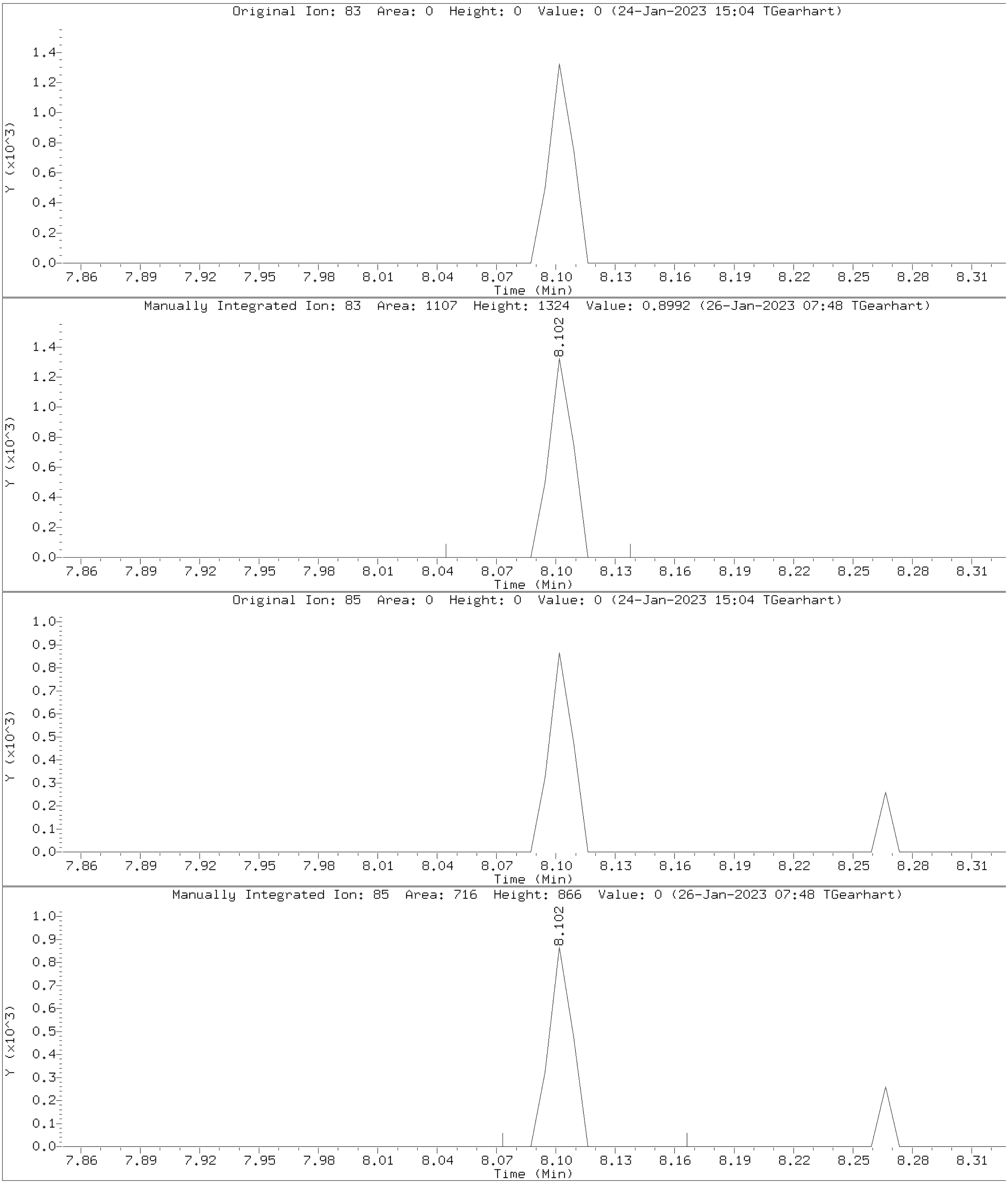
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5



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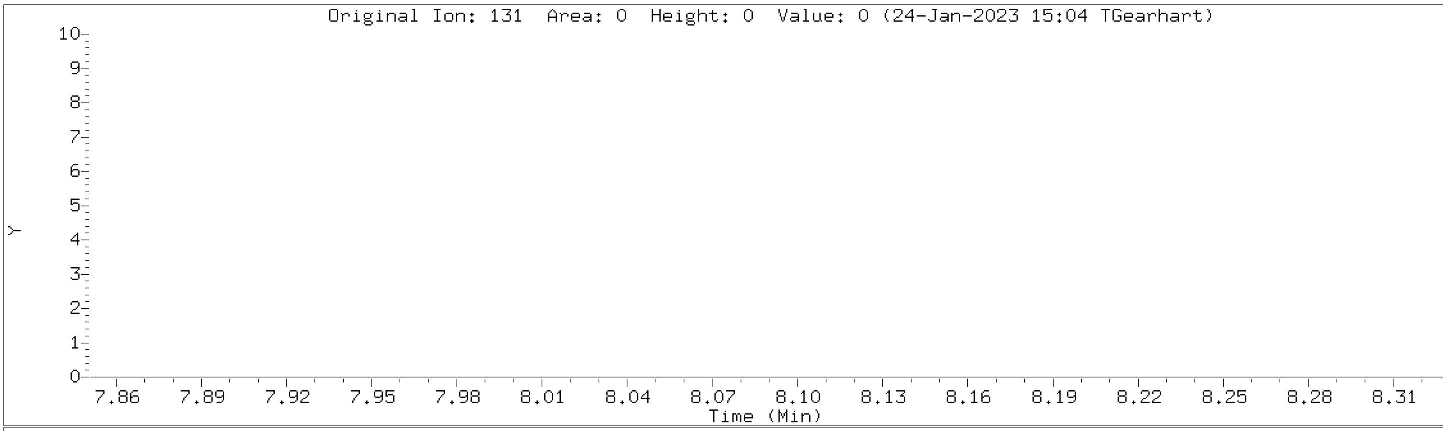
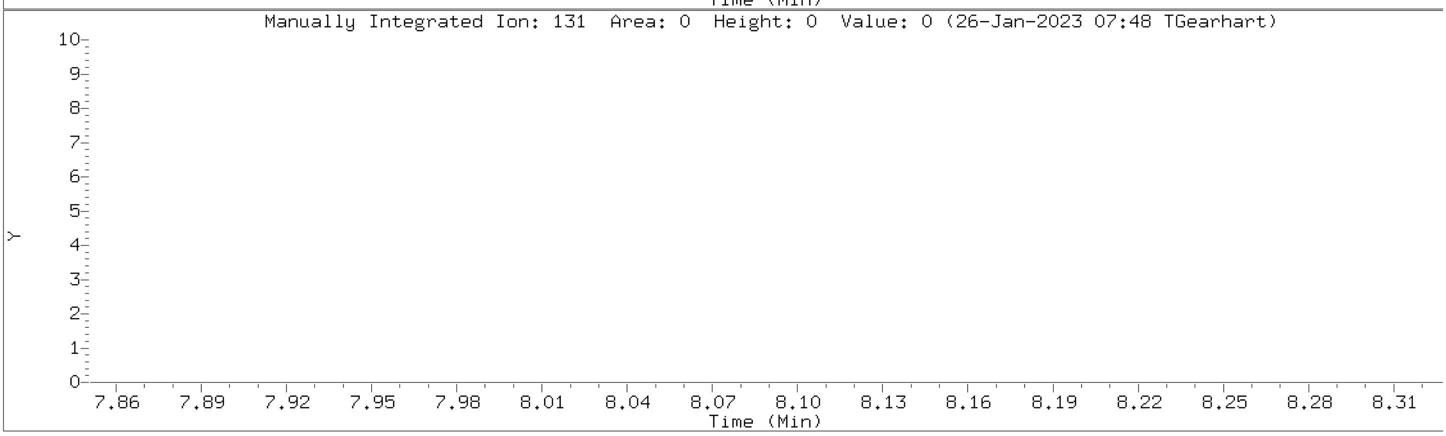
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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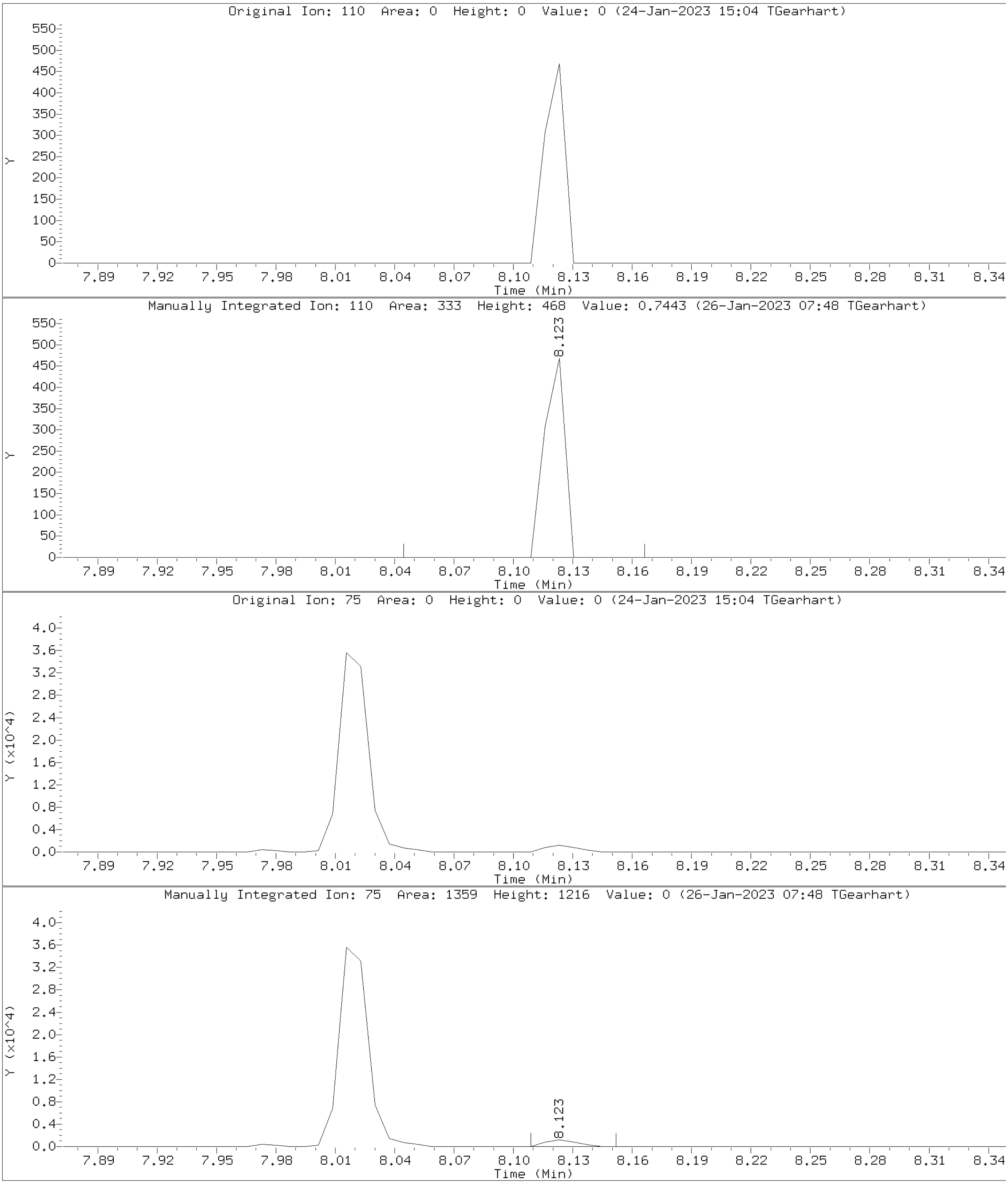
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trichloropropane   Review Code: NI
CAS Number: 96-18-4



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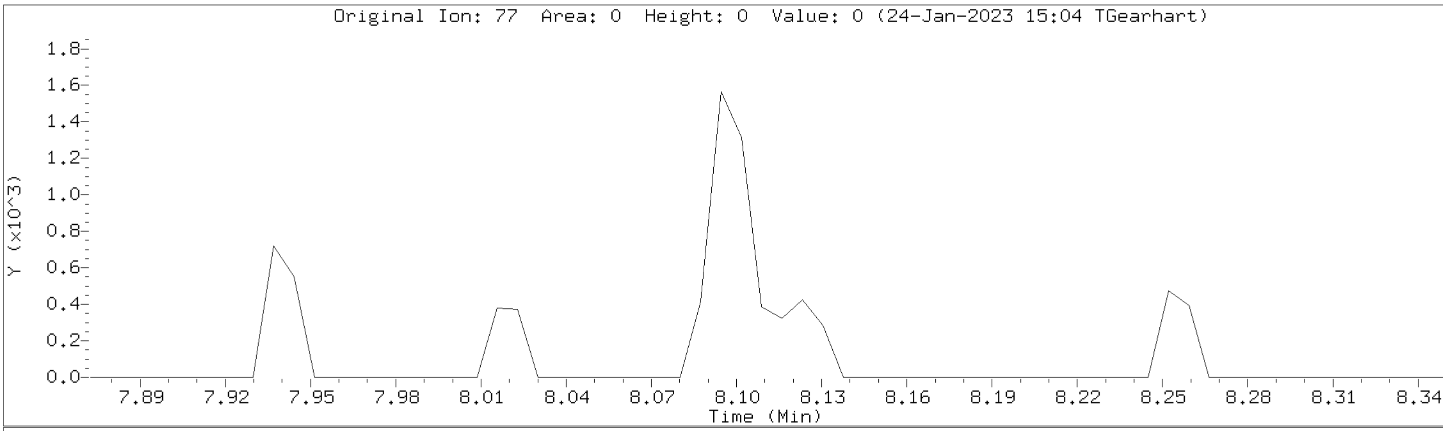
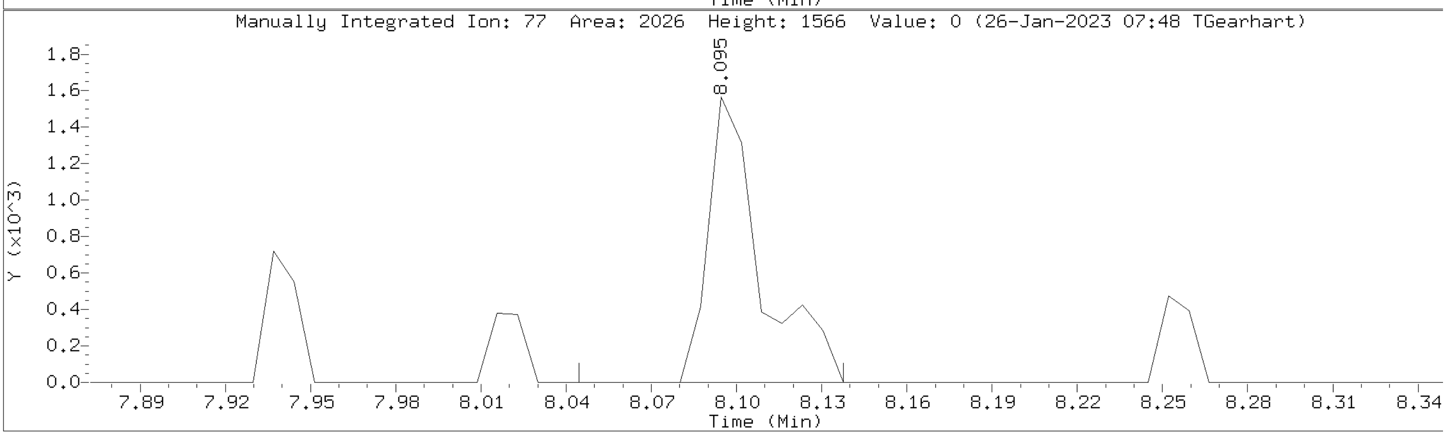
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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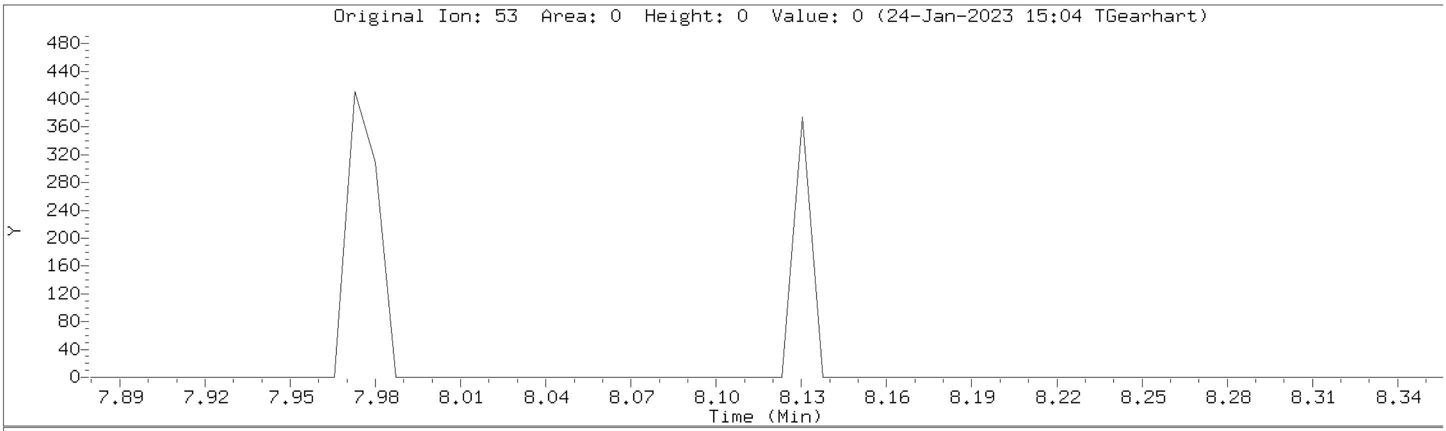
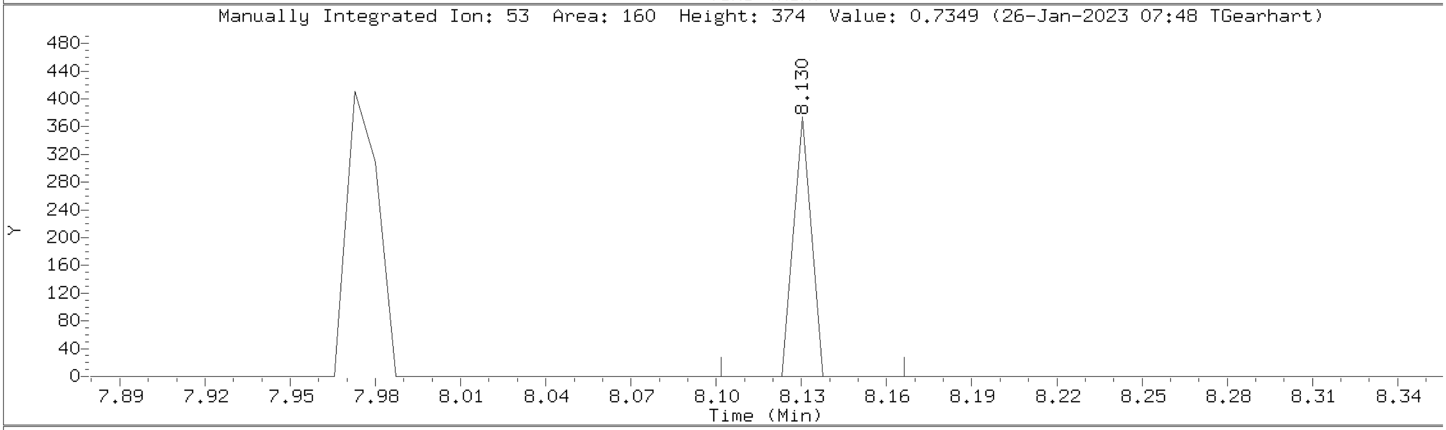
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,4-Dichloro-2-butene   Review Code: NI
CAS Number:

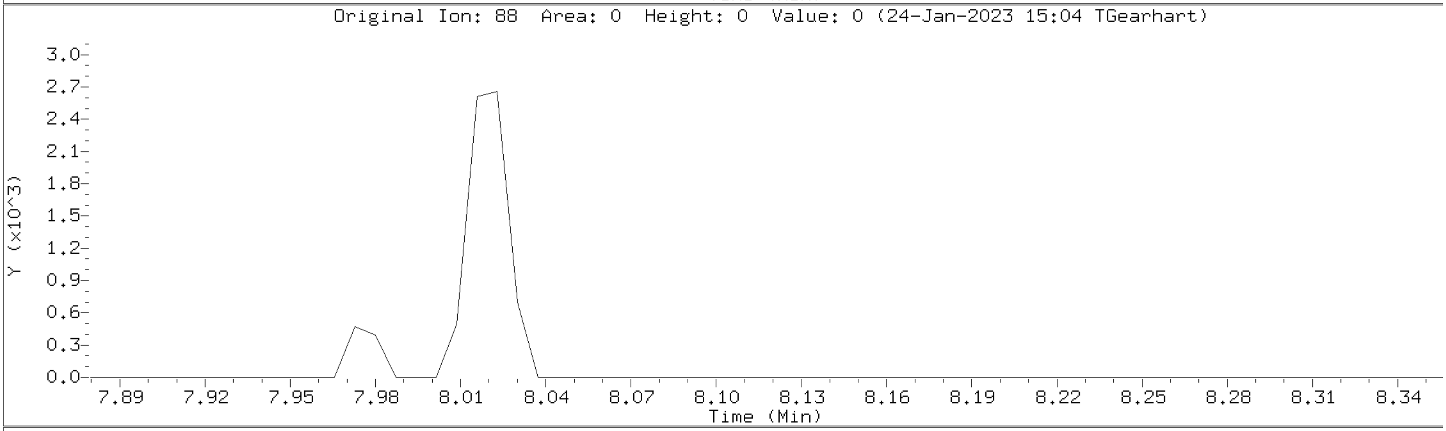
Original Ion: 53 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



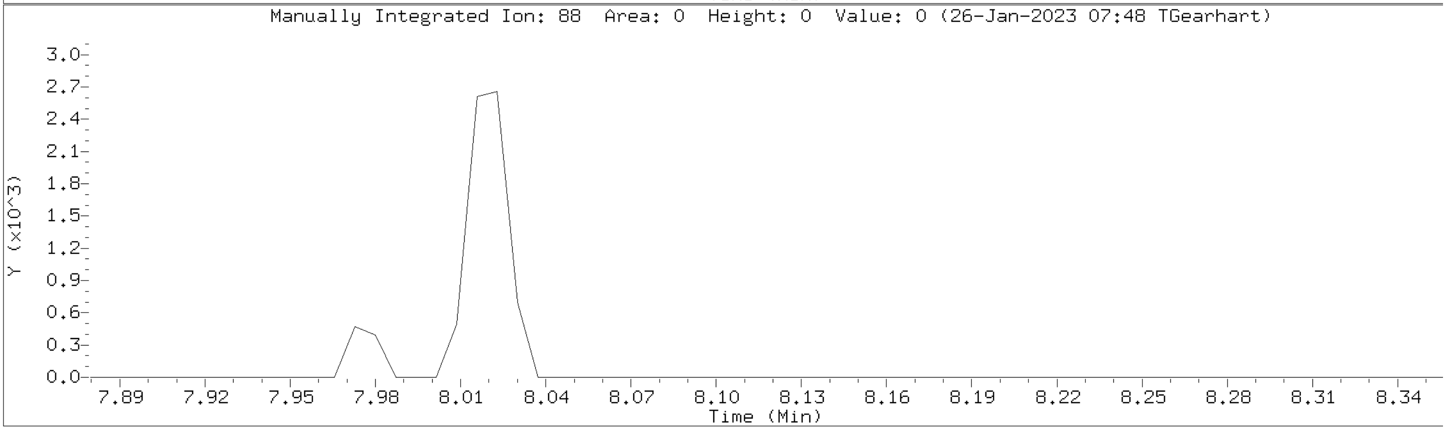
Manually Integrated Ion: 53 Area: 160 Height: 374 Value: 0.7349 (26-Jan-2023 07:48 TGearhart)



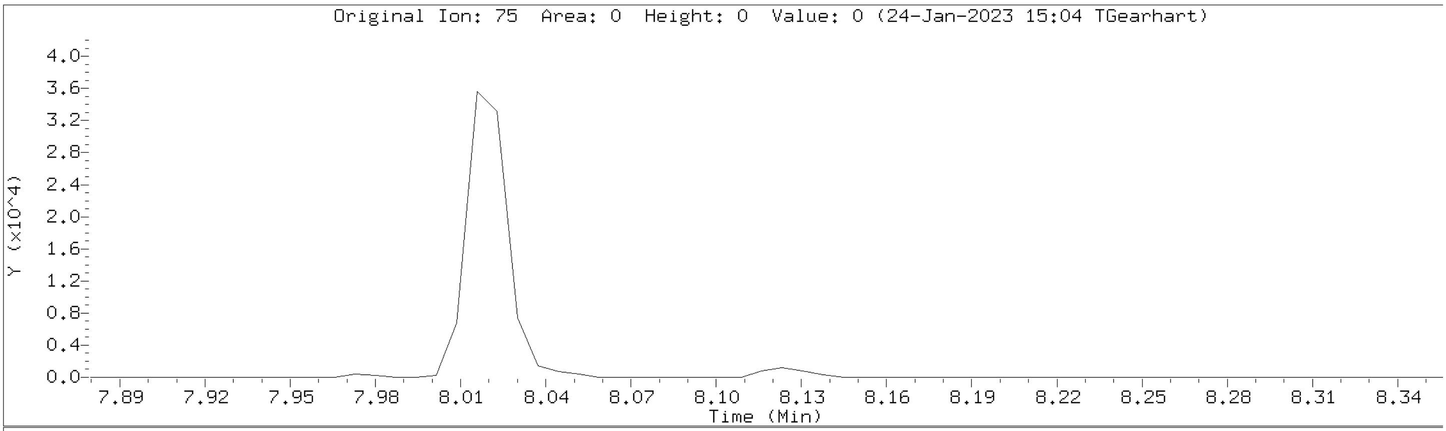
Original Ion: 88 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)

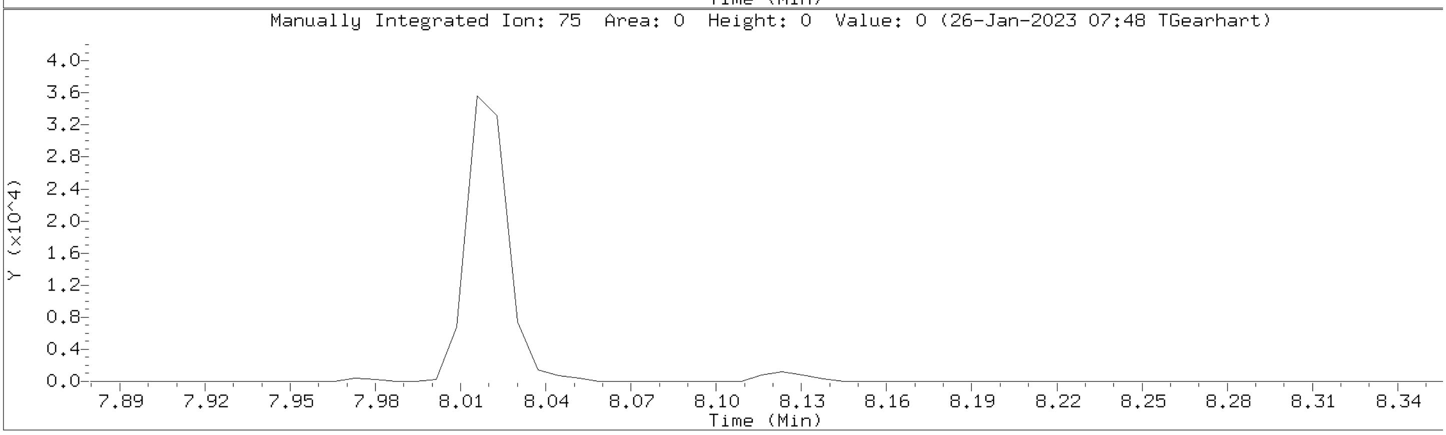


Manually Integrated Ion: 88 Area: 0 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



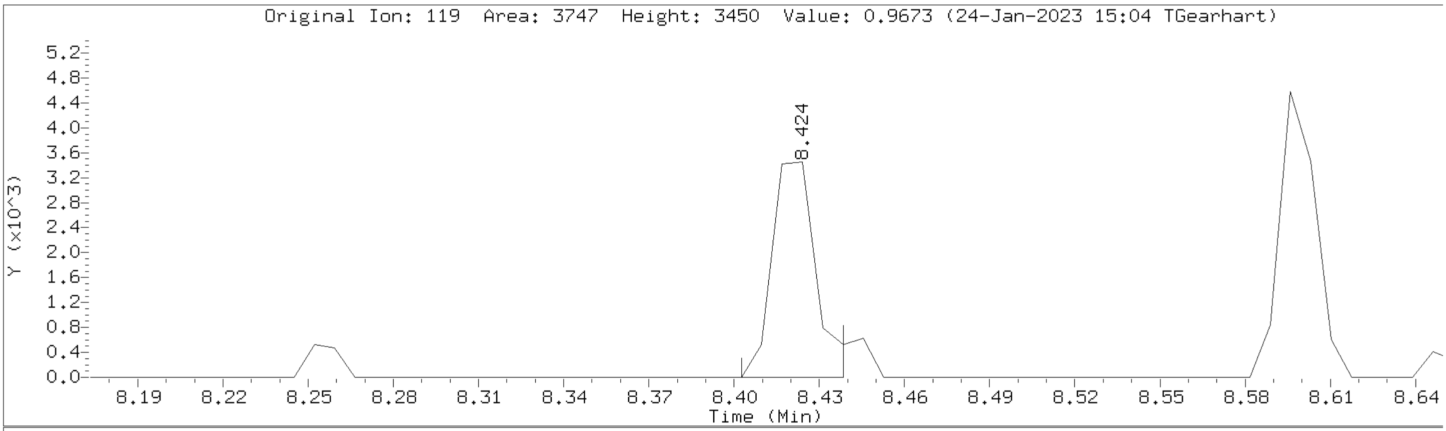
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

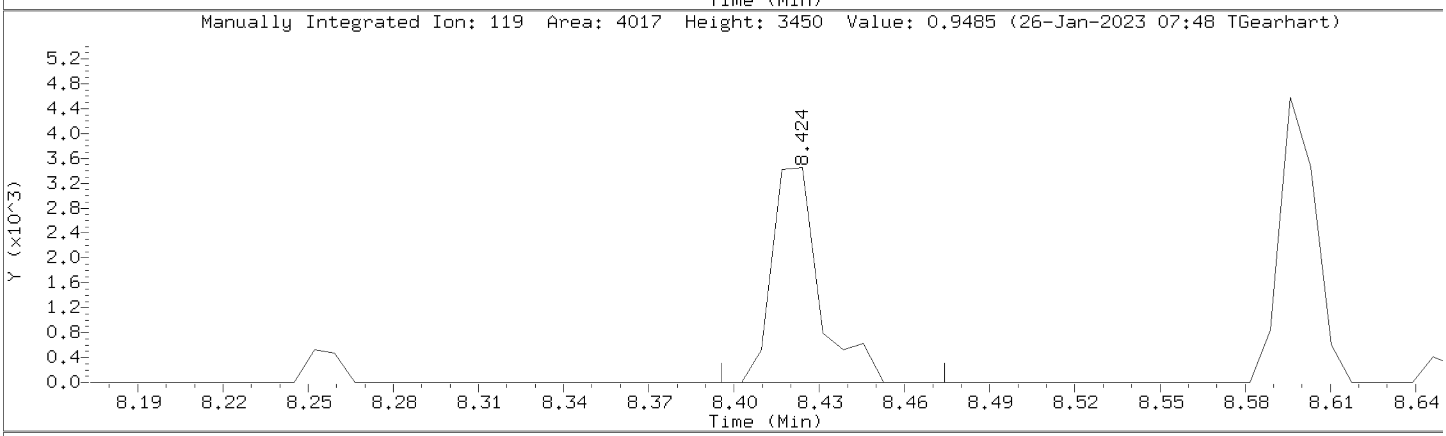


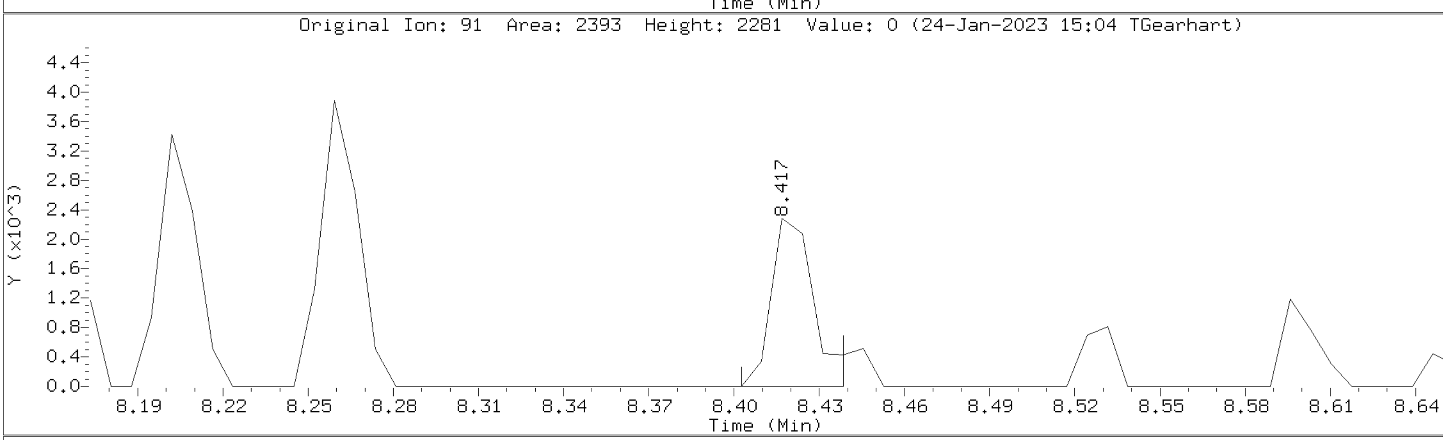


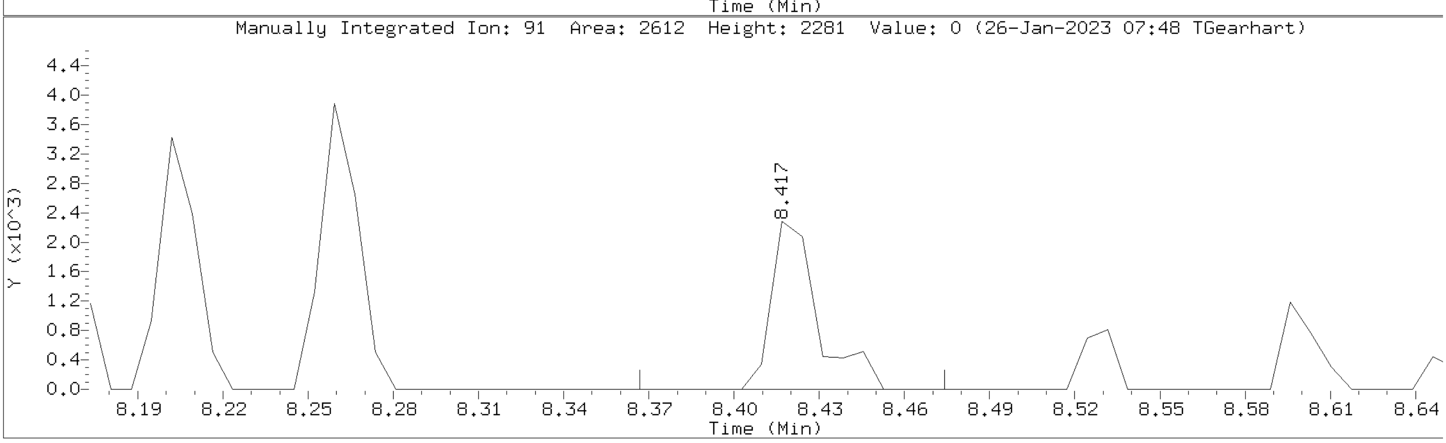
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butylbenzene   Review Code: WP
CAS Number: 98-06-6

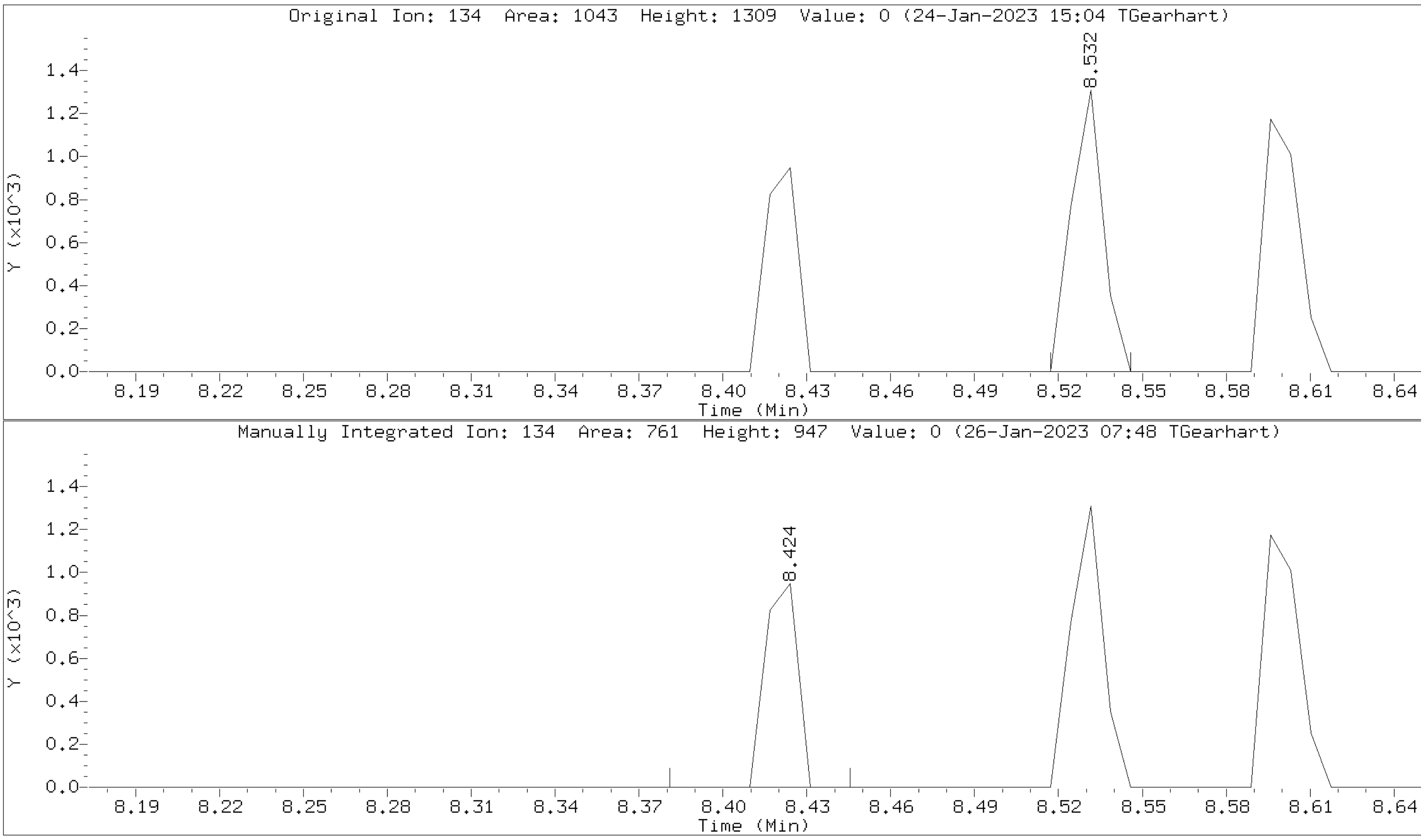








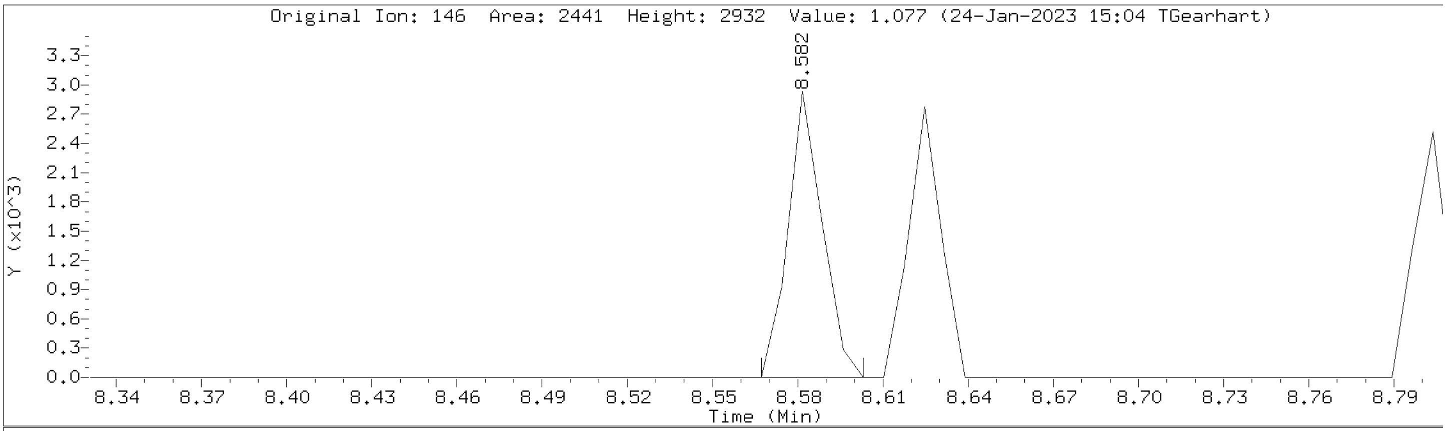
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2



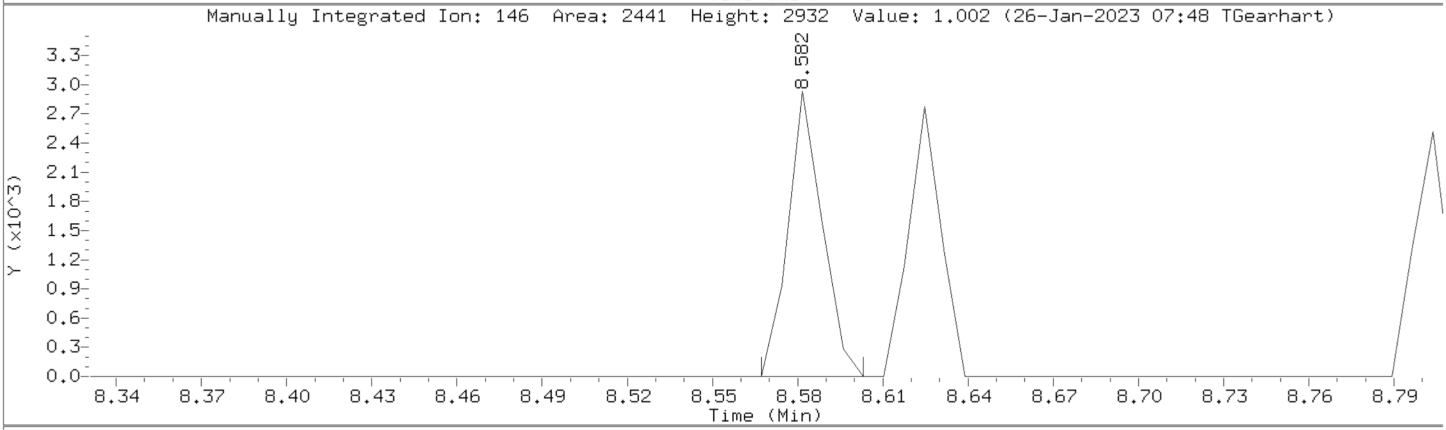
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,3-Dichlorobenzene   Review Code: WP
CAS Number: 541-73-1

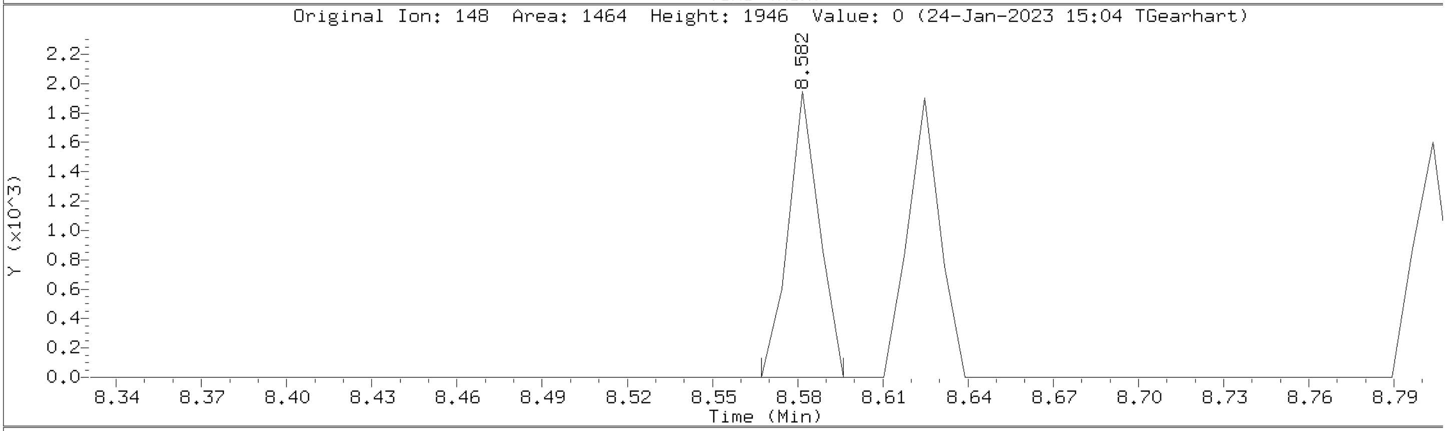
Original Ion: 146 Area: 2441 Height: 2932 Value: 1.077 (24-Jan-2023 15:04 TGearhart)



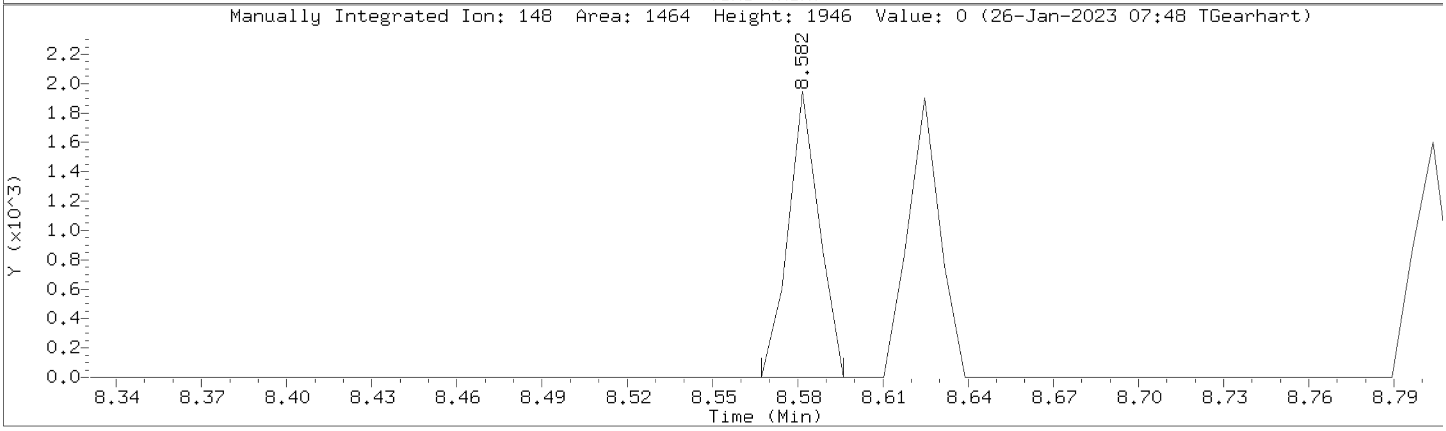
Manually Integrated Ion: 146 Area: 2441 Height: 2932 Value: 1.002 (26-Jan-2023 07:48 TGearhart)



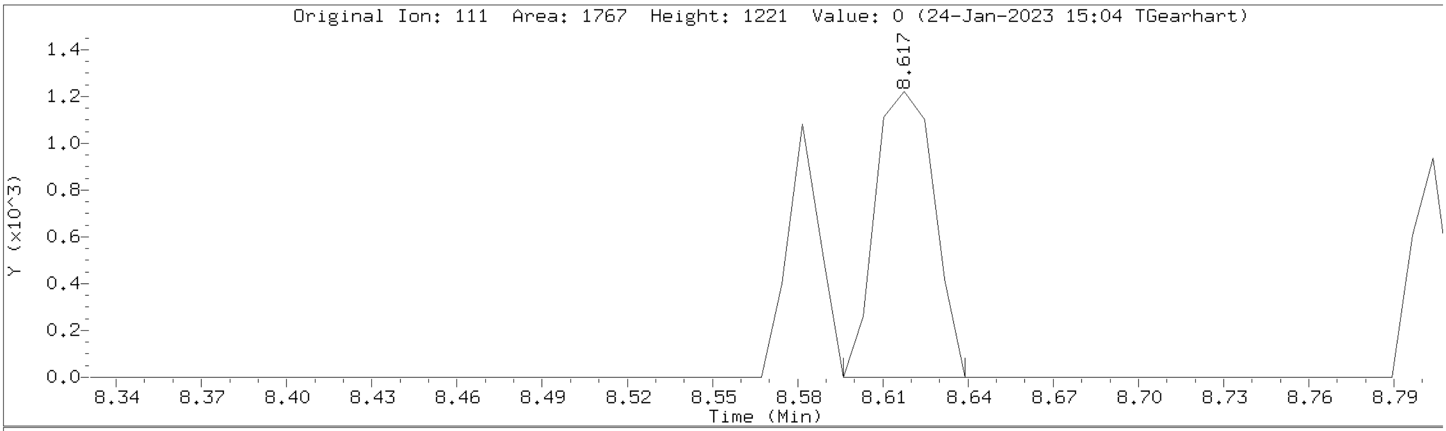
Original Ion: 148 Area: 1464 Height: 1946 Value: 0 (24-Jan-2023 15:04 TGearhart)

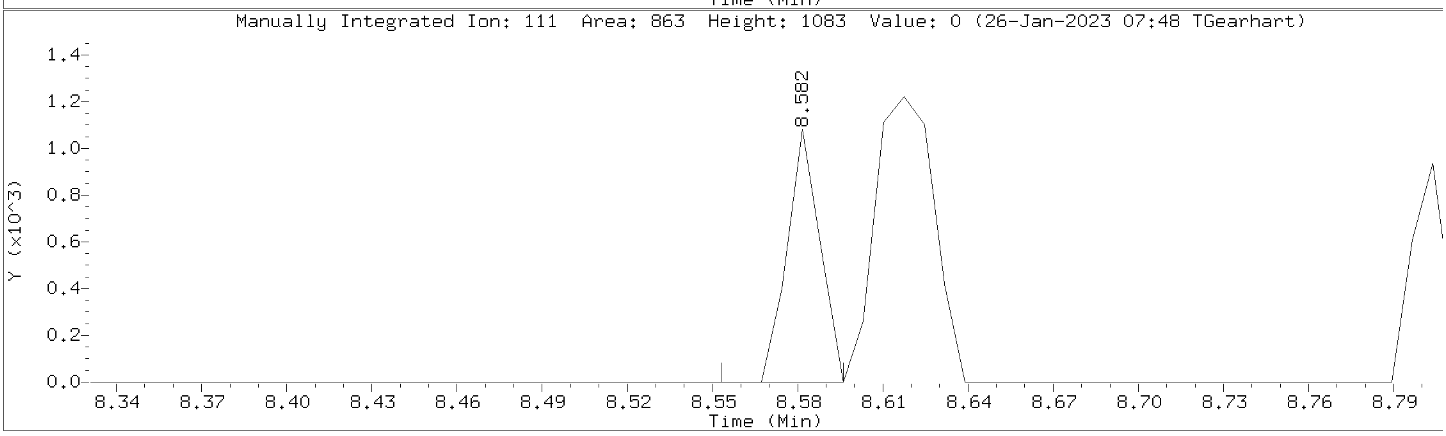


Manually Integrated Ion: 148 Area: 1464 Height: 1946 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

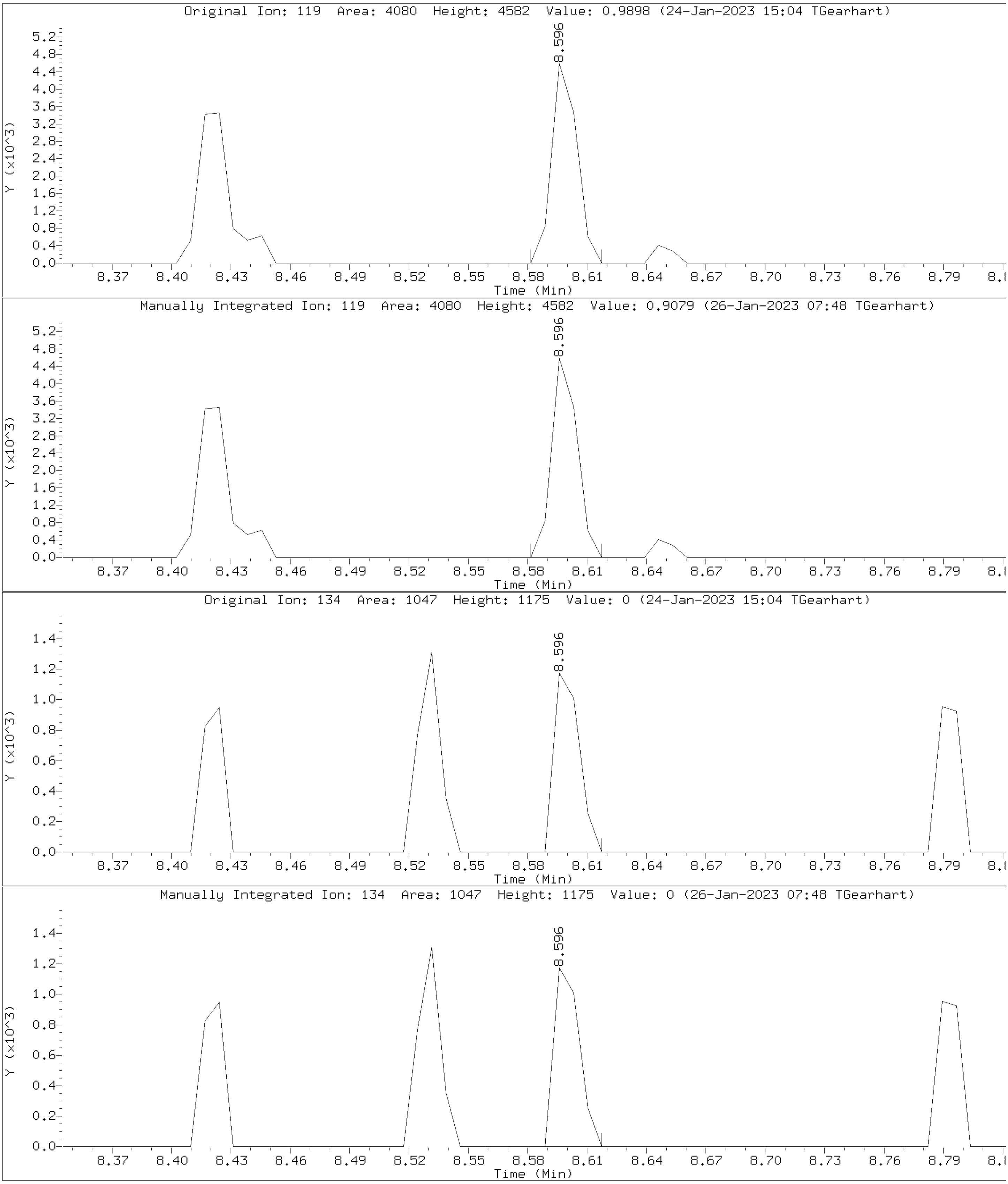
Compound: p-Isopropyltoluene   Review Code: WP
CAS Number: 99-87-6

Original Ion: 119 Area: 4080 Height: 4582 Value: 0.9898 (24-Jan-2023 15:04 TGearhart)

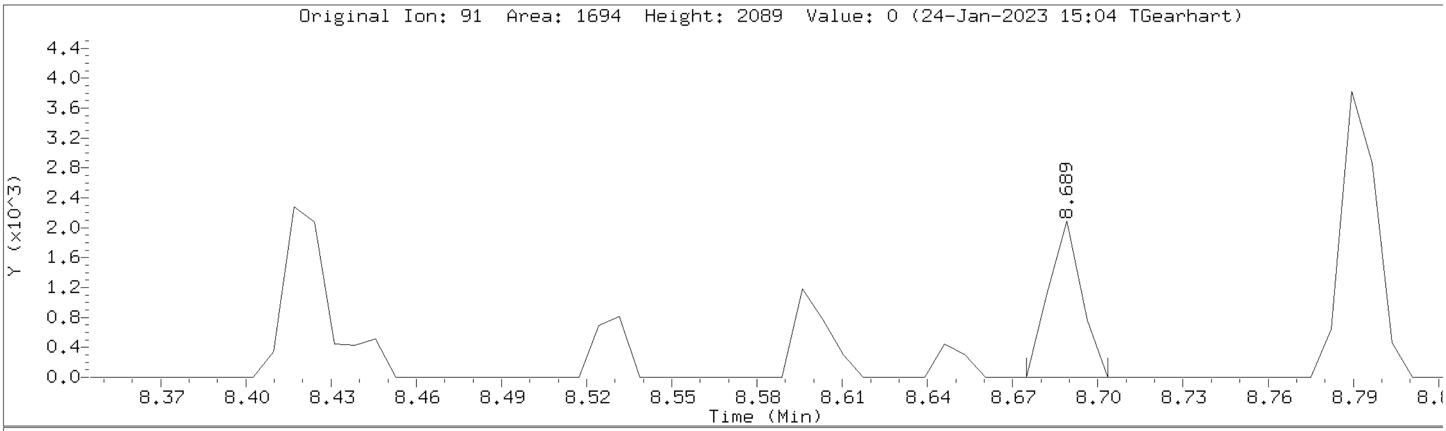
Manually Integrated Ion: 119 Area: 4080 Height: 4582 Value: 0.9079 (26-Jan-2023 07:48 TGearhart)

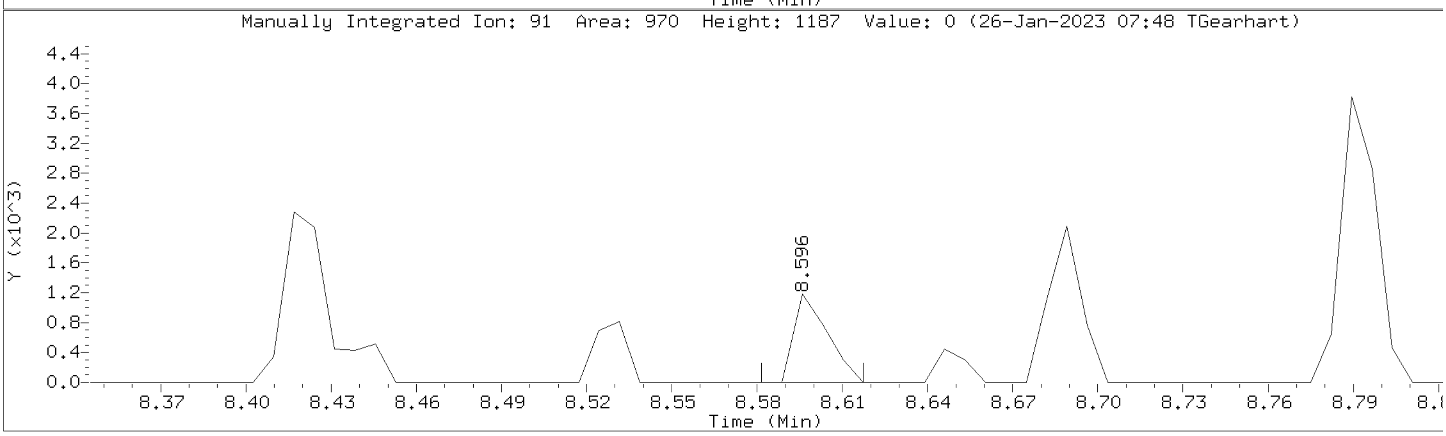
Original Ion: 134 Area: 1047 Height: 1175 Value: 0 (24-Jan-2023 15:04 TGearhart)

Manually Integrated Ion: 134 Area: 1047 Height: 1175 Value: 0 (26-Jan-2023 07:48 TGearhart)



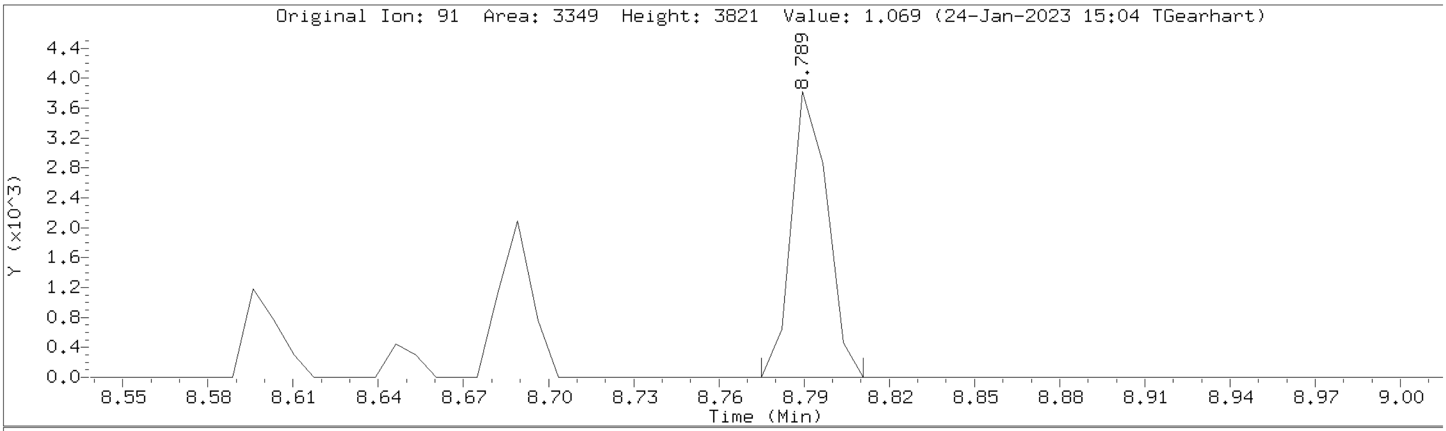
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

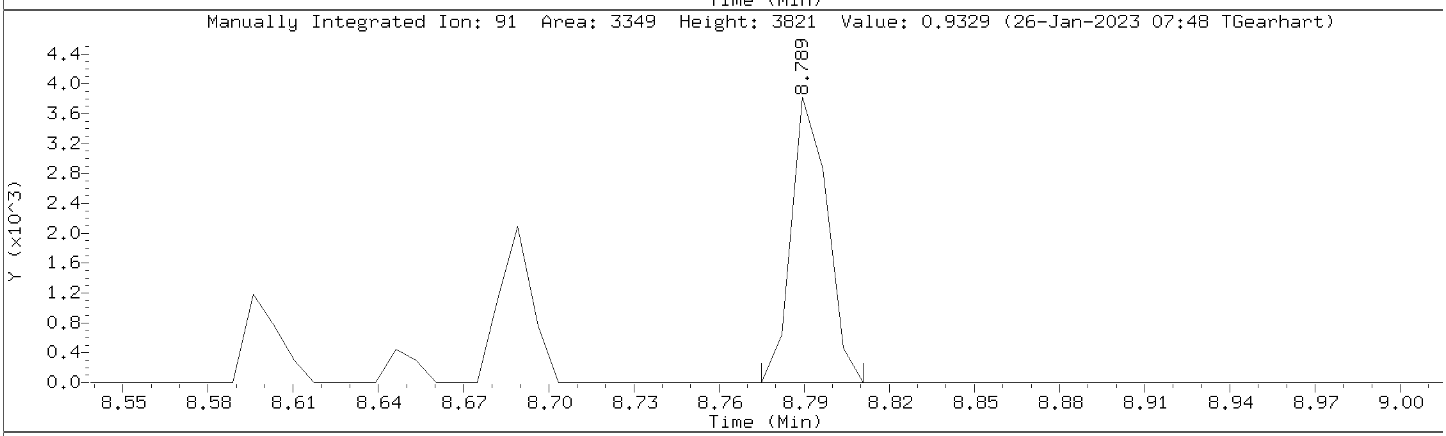


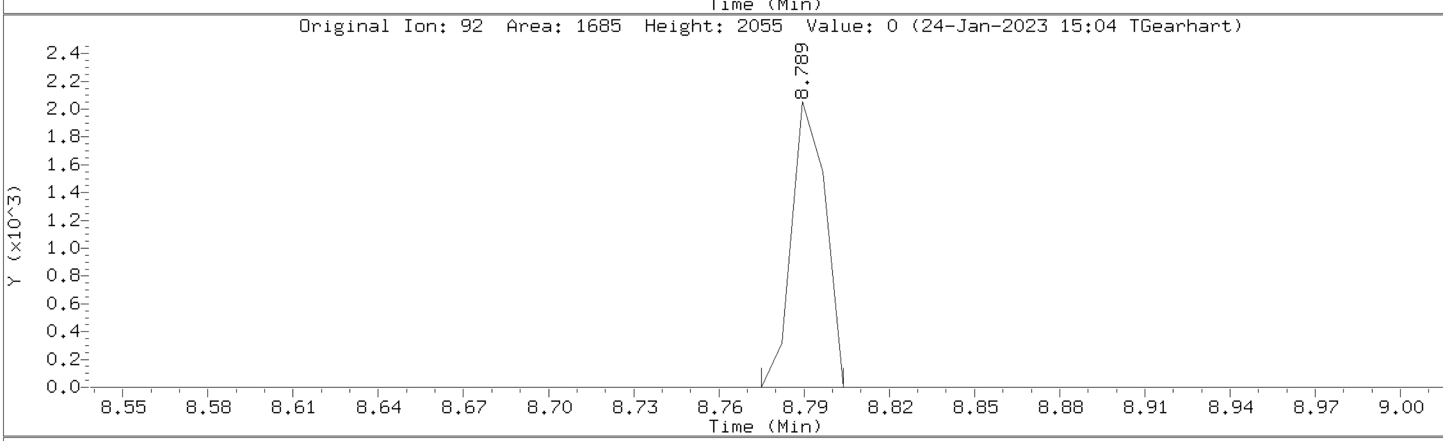


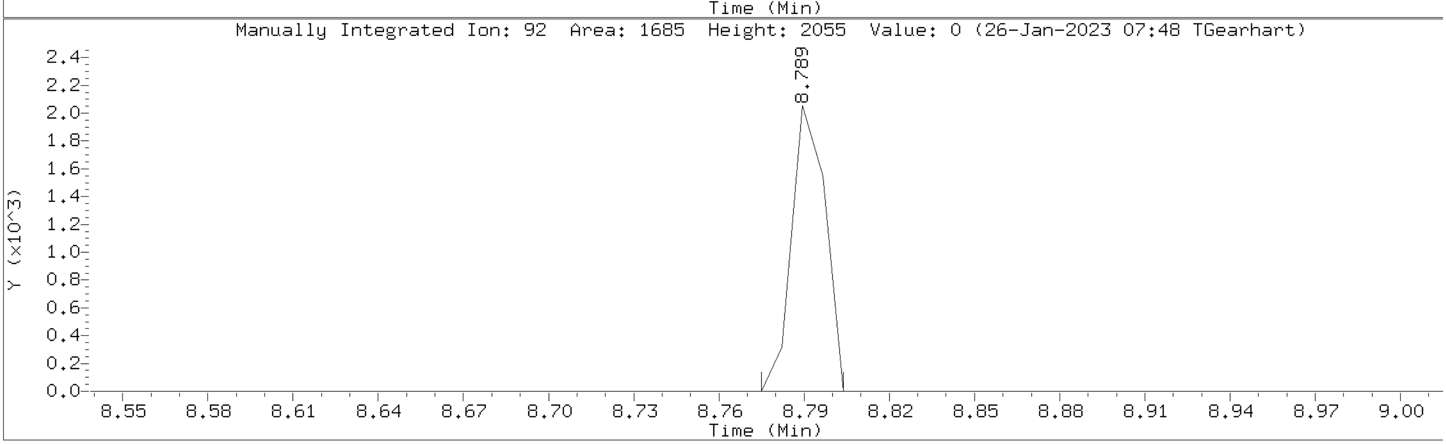
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a06cal2.d
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: n-Butylbenzene   Review Code: NI
CAS Number: 104-51-8









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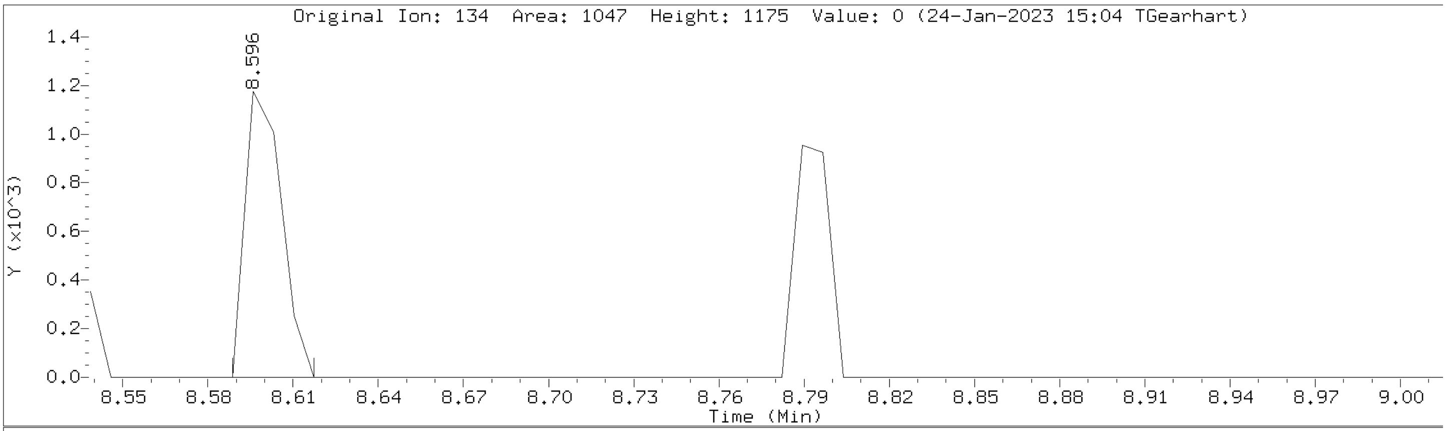
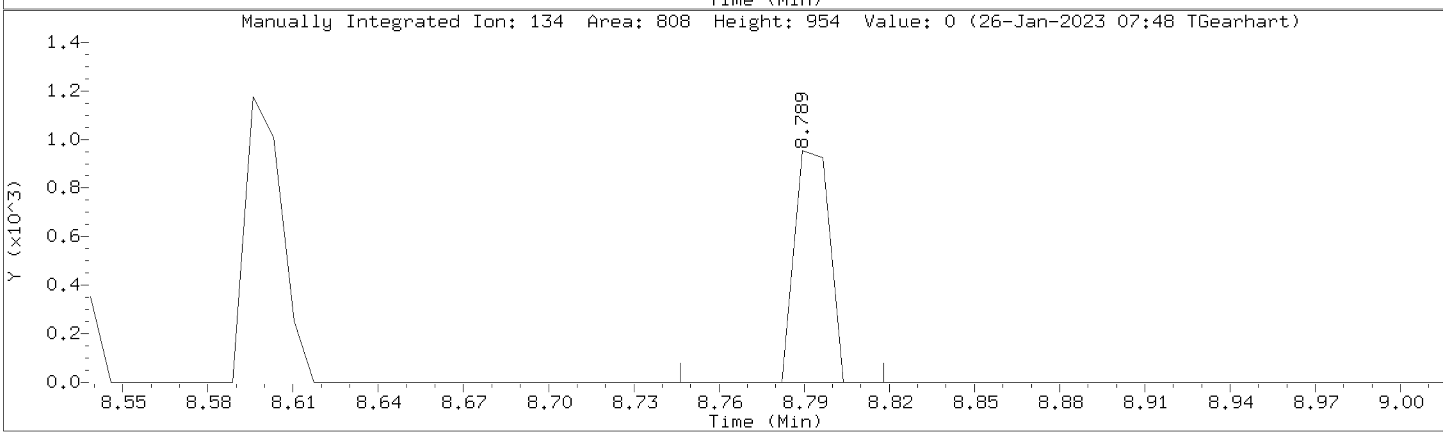
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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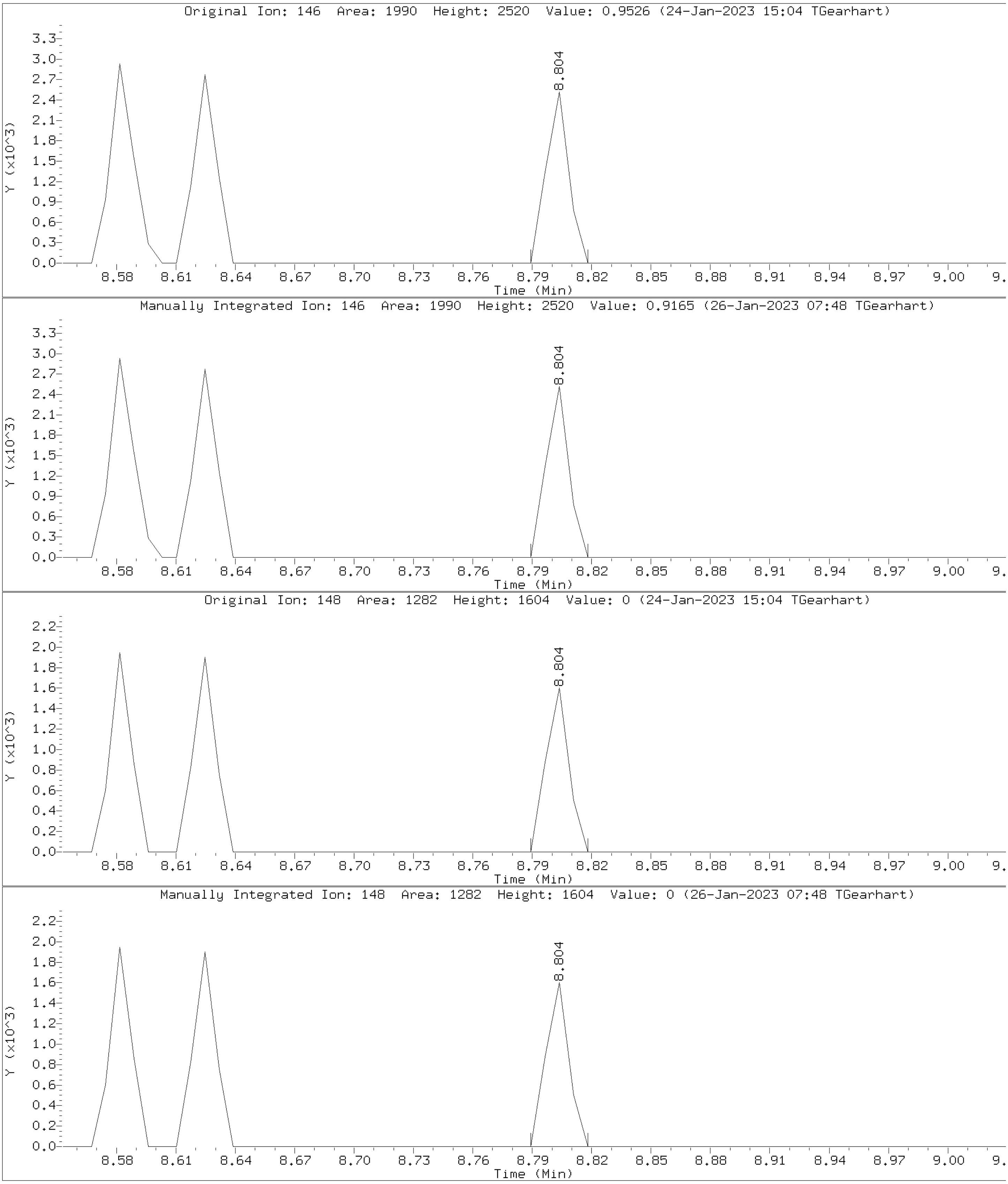
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichlorobenzene   Review Code: NI
CAS Number: 95-50-1



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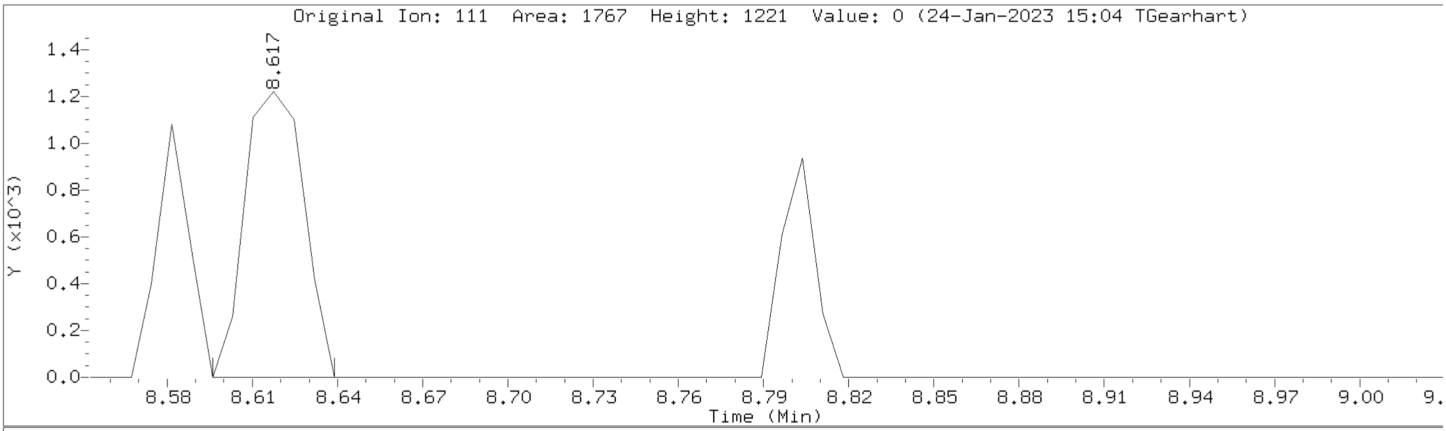
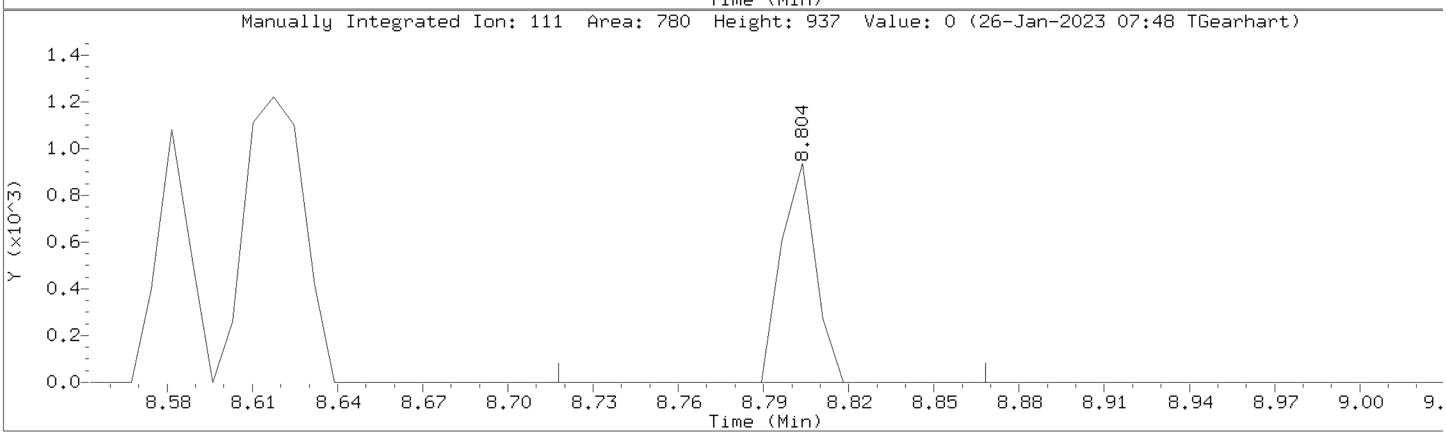
Lab Sample ID: 8260-CAL2





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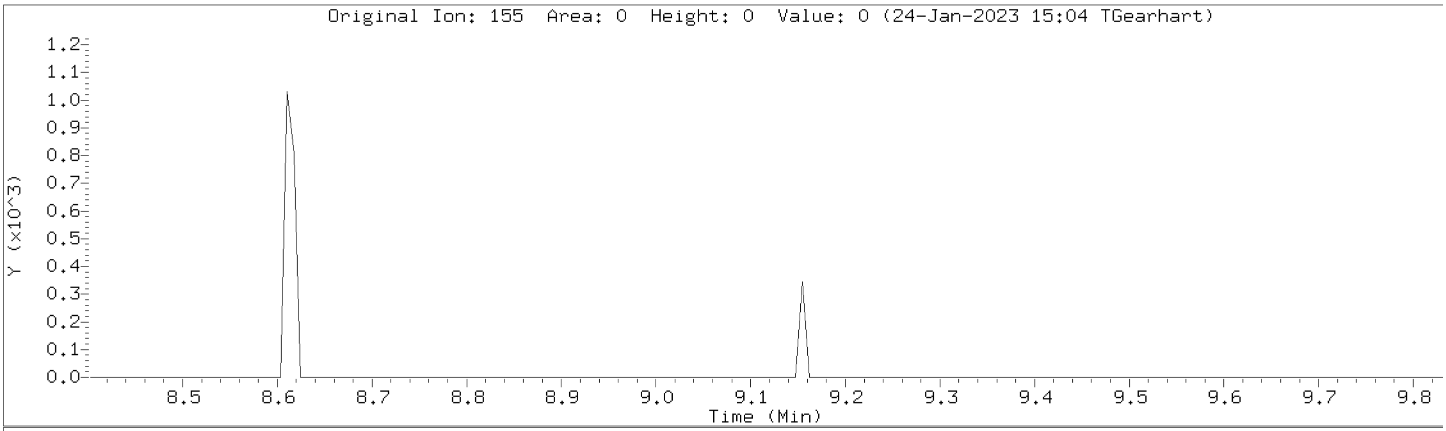
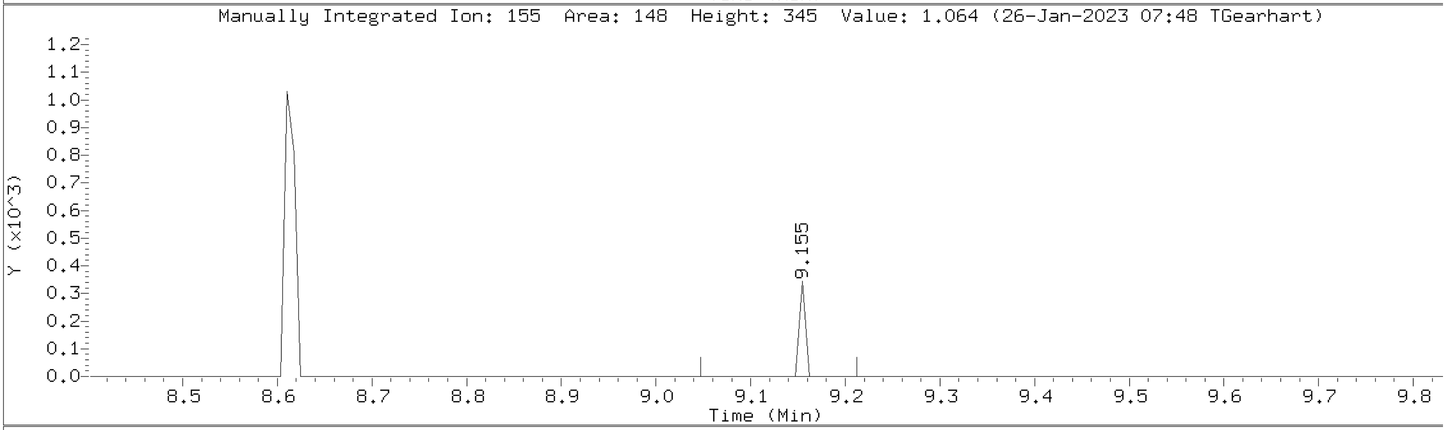
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8

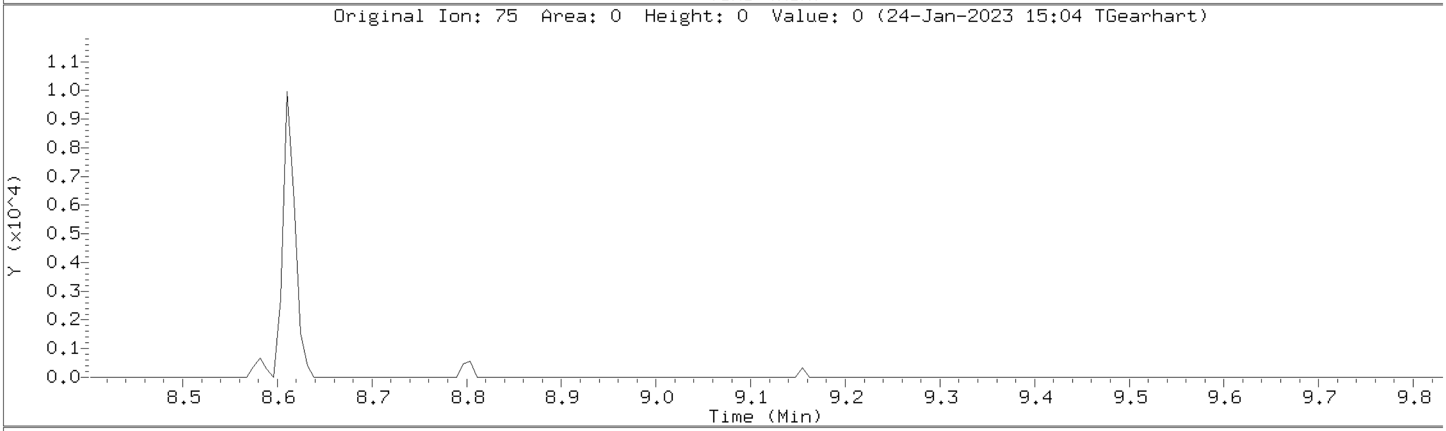
Original Ion: 155 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



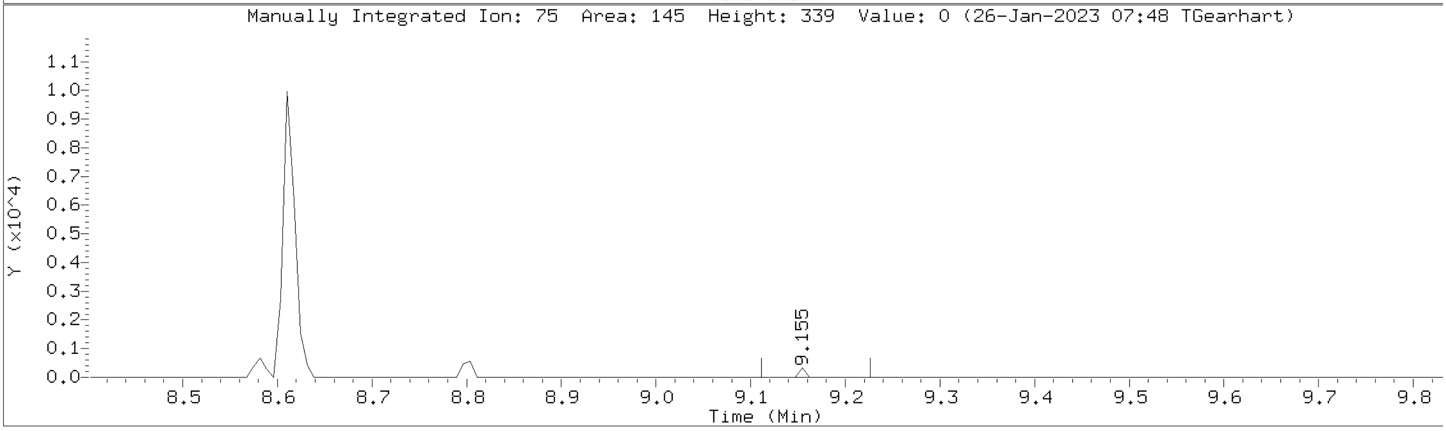
Manually Integrated Ion: 155 Area: 148 Height: 345 Value: 1.064 (26-Jan-2023 07:48 TGearhart)



Original Ion: 75 Area: 0 Height: 0 Value: 0 (24-Jan-2023 15:04 TGearhart)



Manually Integrated Ion: 75 Area: 145 Height: 339 Value: 0 (26-Jan-2023 07:48 TGearhart)



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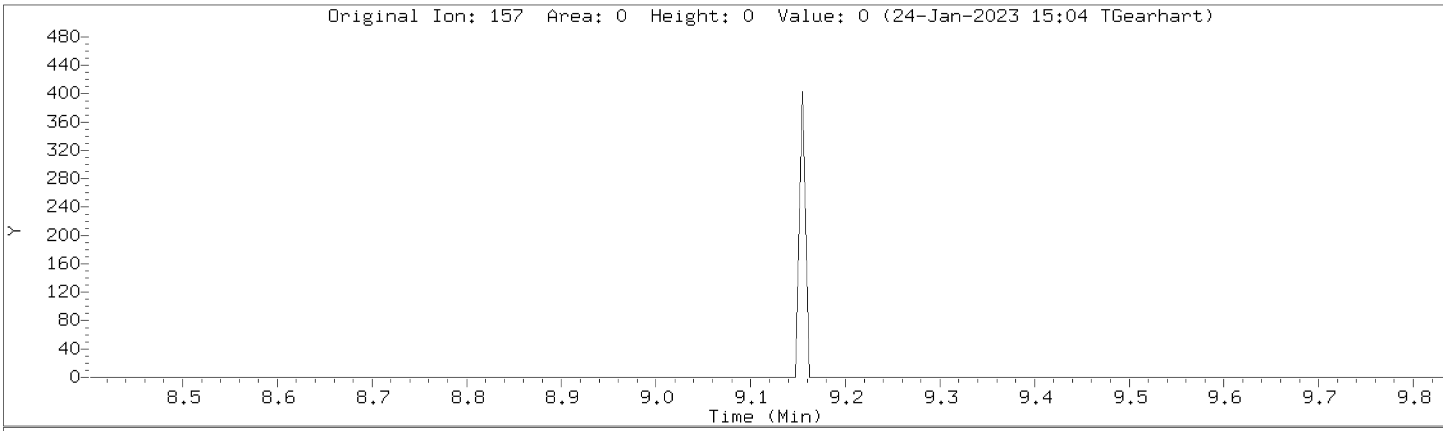
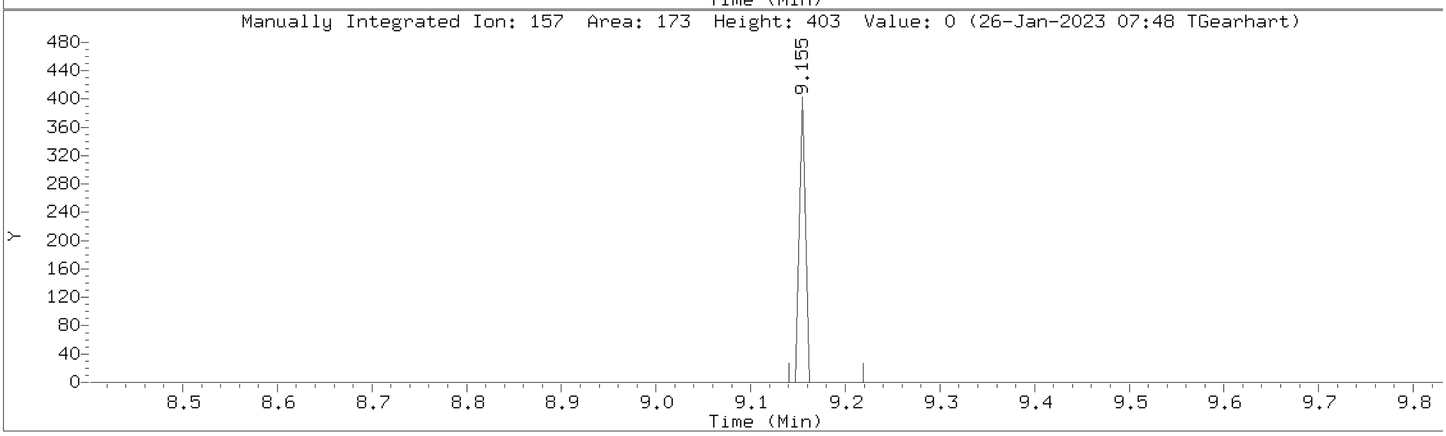
Lab Sample ID: 8260-CAL2





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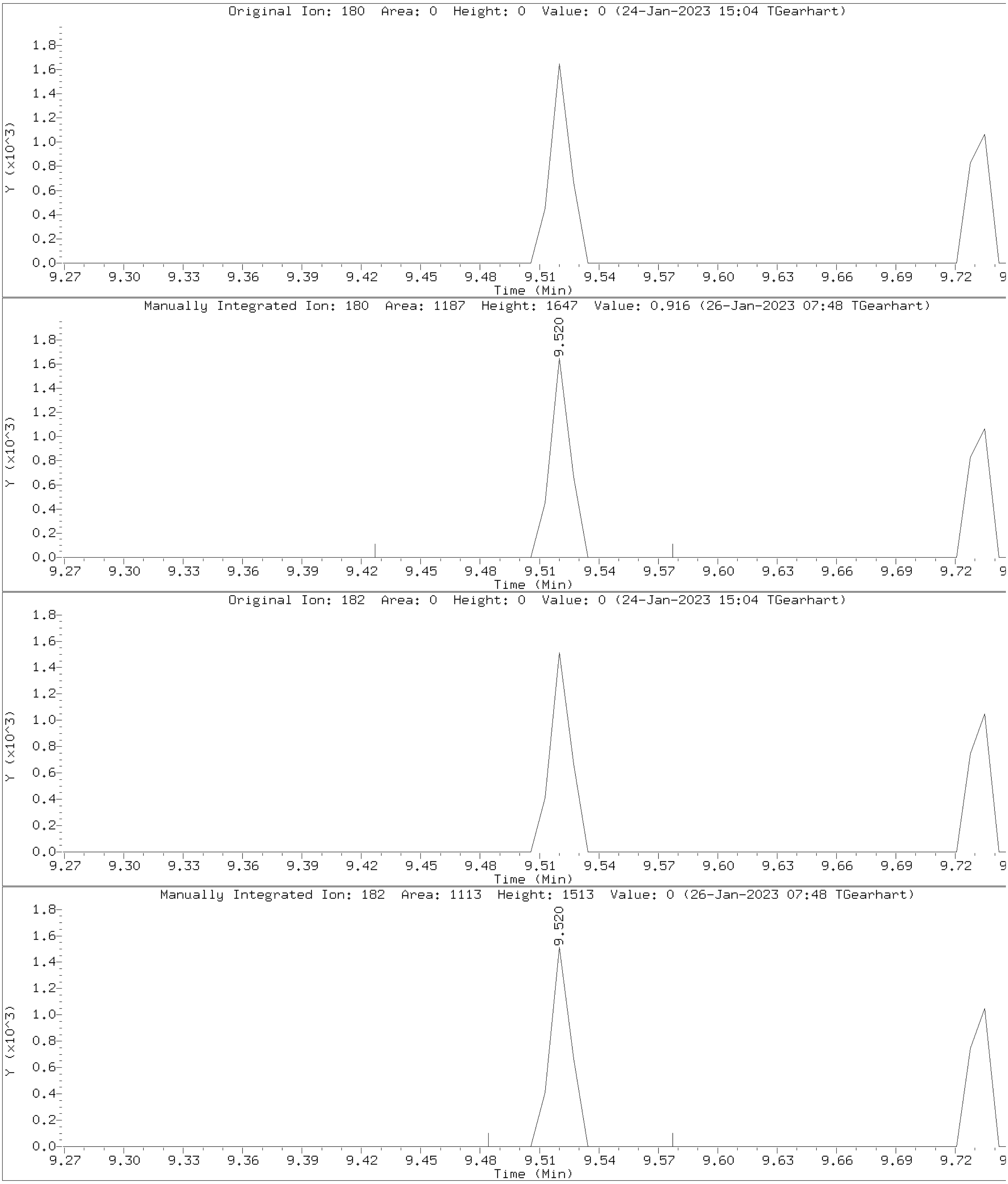
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,4-Trichlorobenzene   Review Code: NI
CAS Number: 120-82-1



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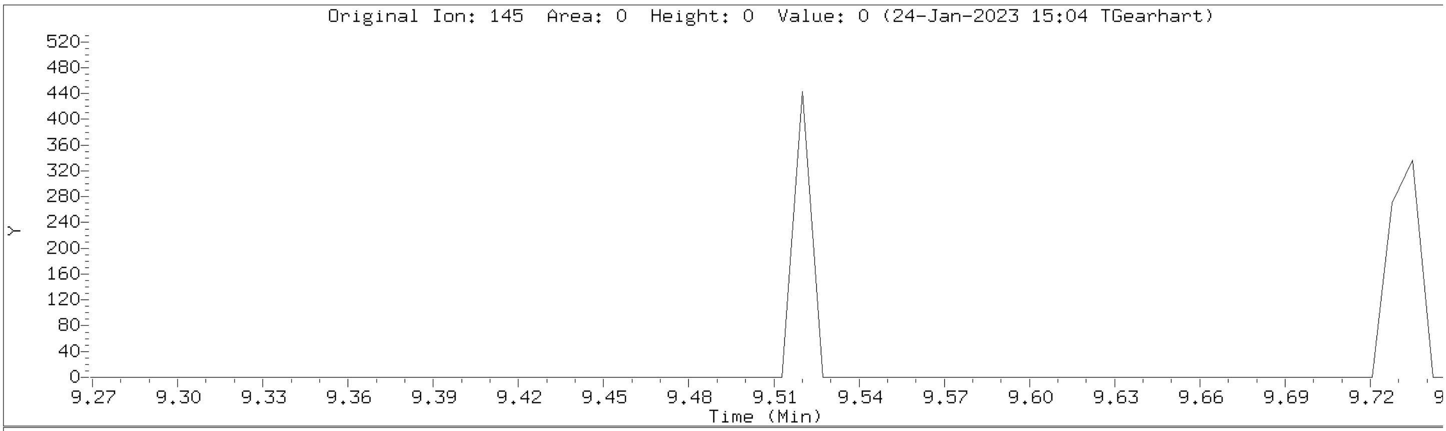
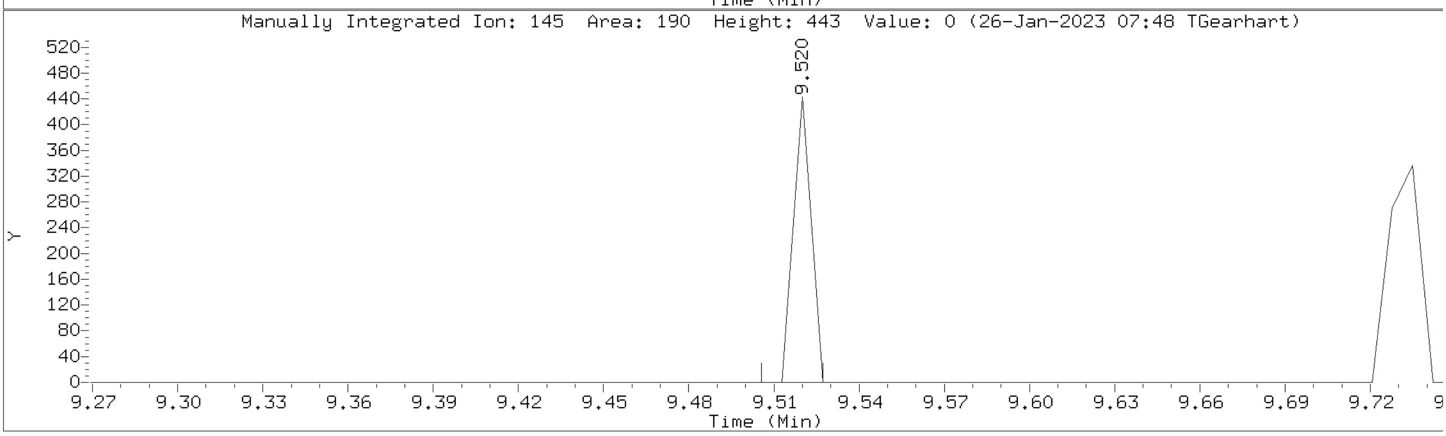
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2





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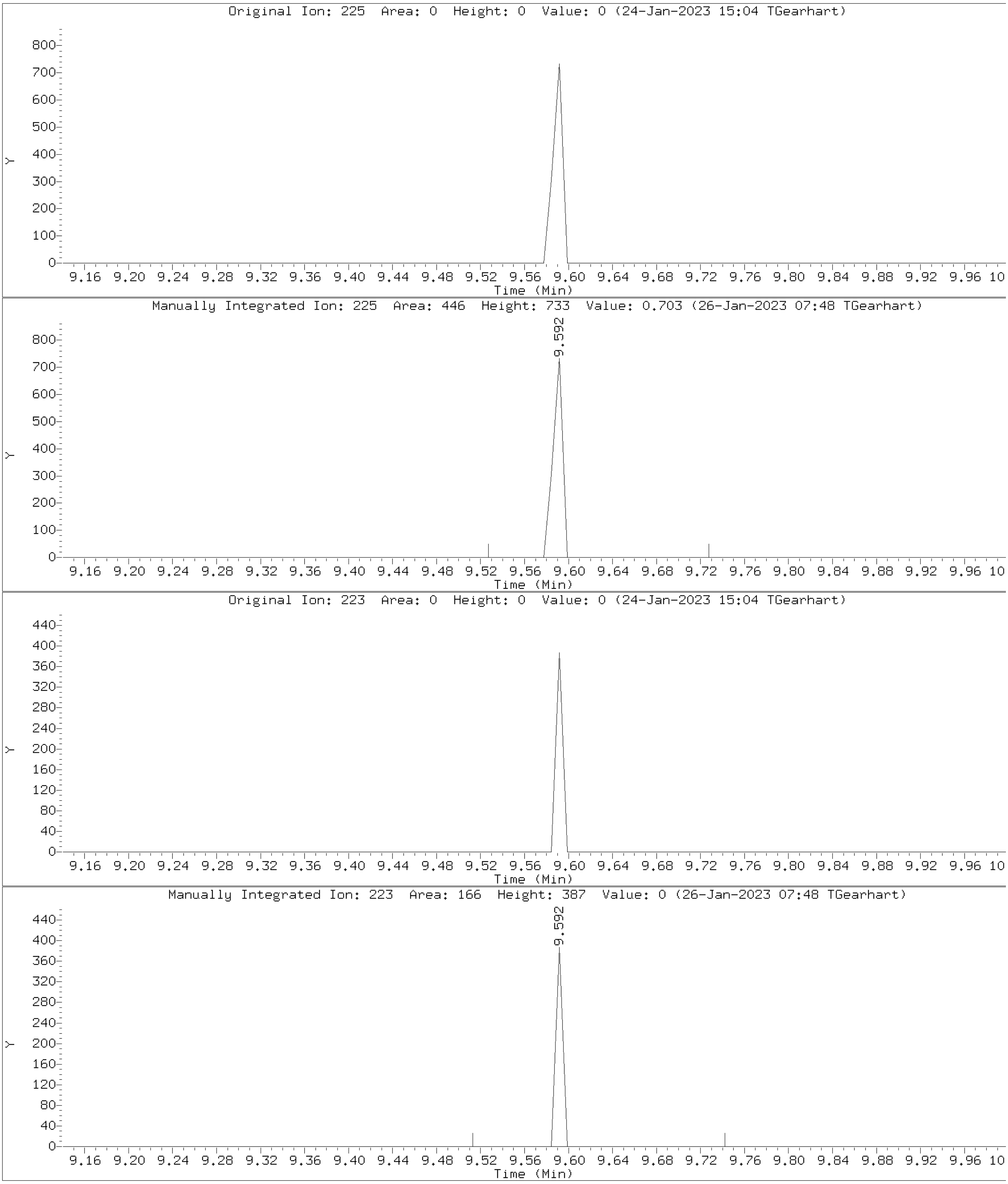
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Hexachlorobutadiene   Review Code: NI
CAS Number: 87-68-3



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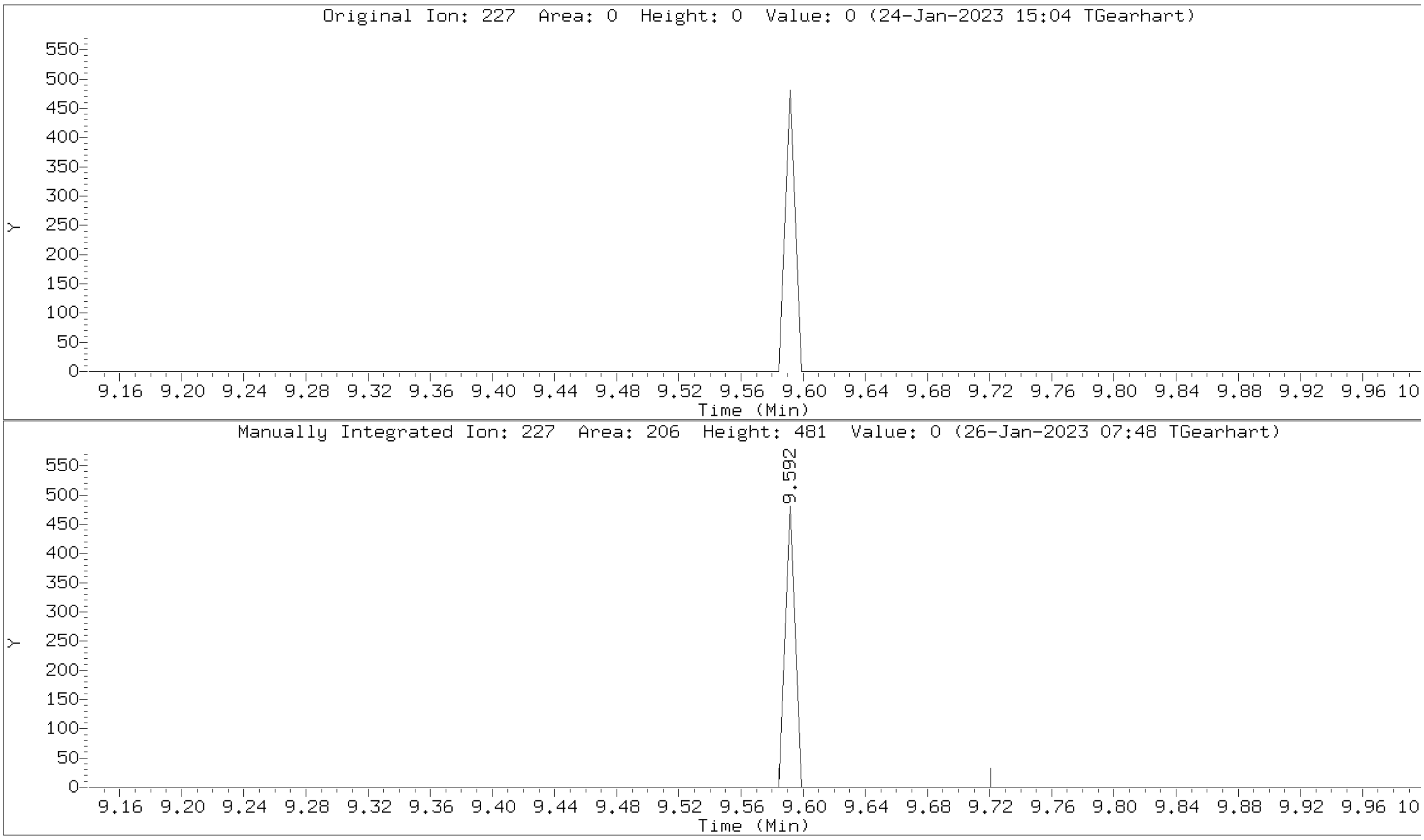
Lab Sample ID: 8260-CAL2



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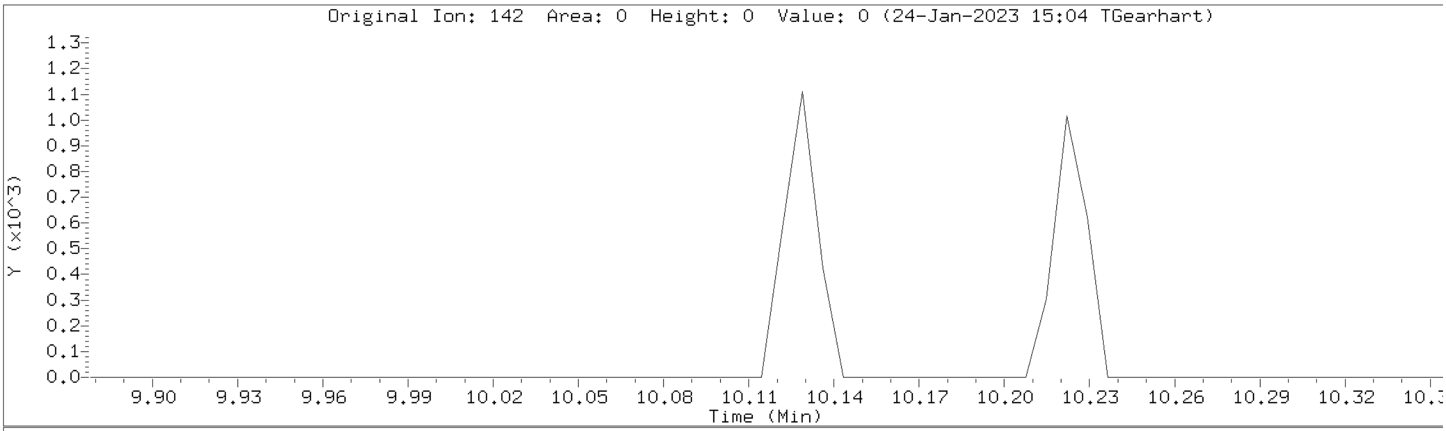
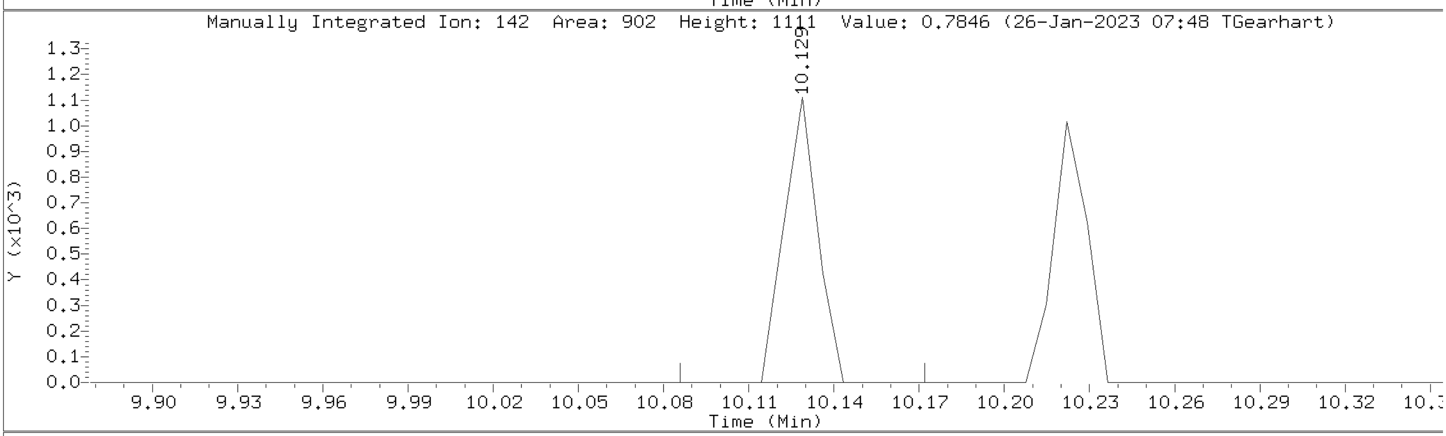
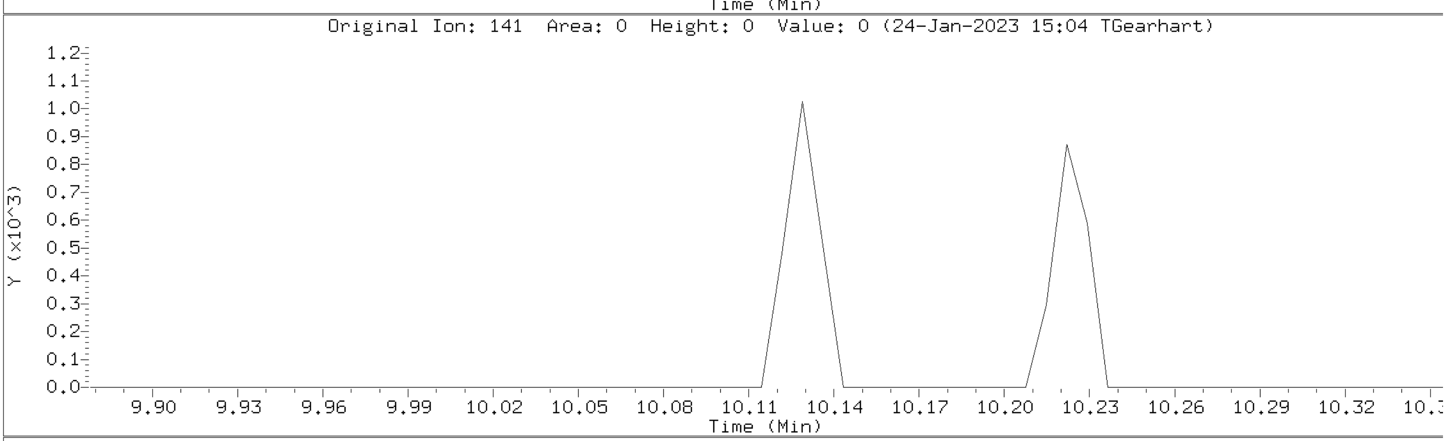
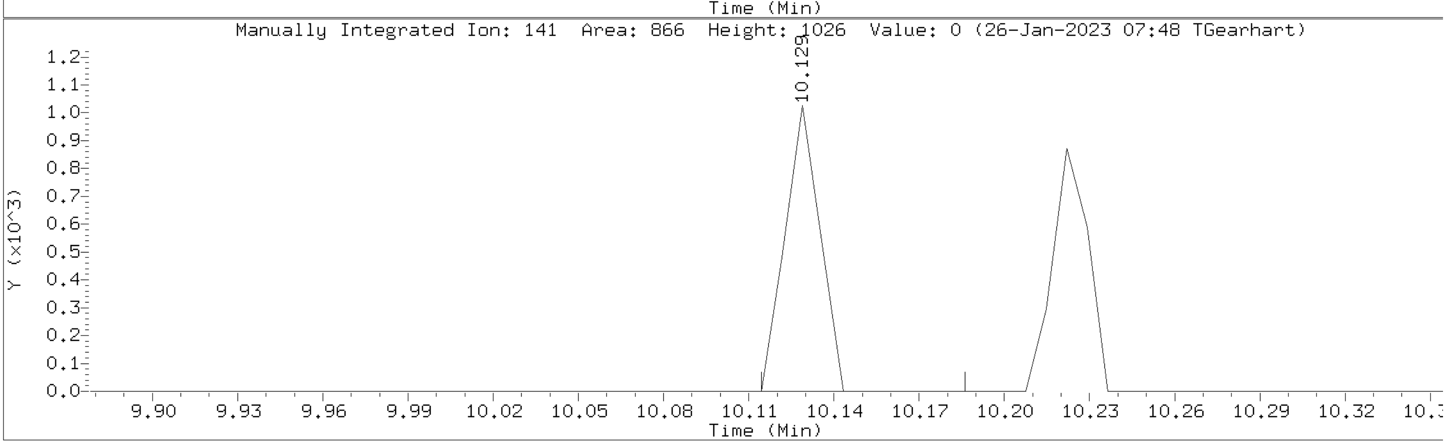
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 2,methyl-naphthalene   Review Code: NI
CAS Number:









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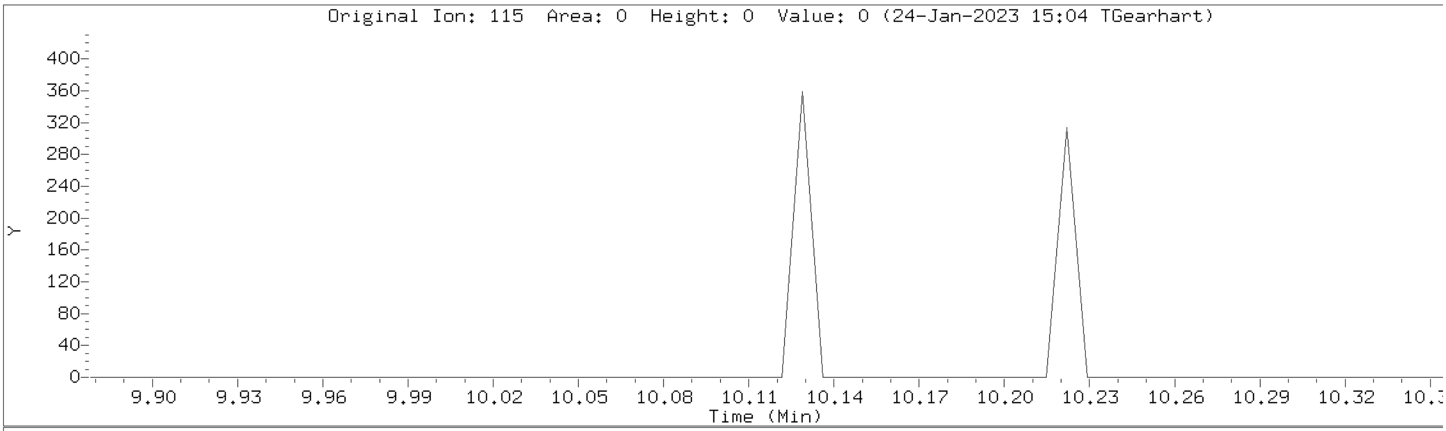
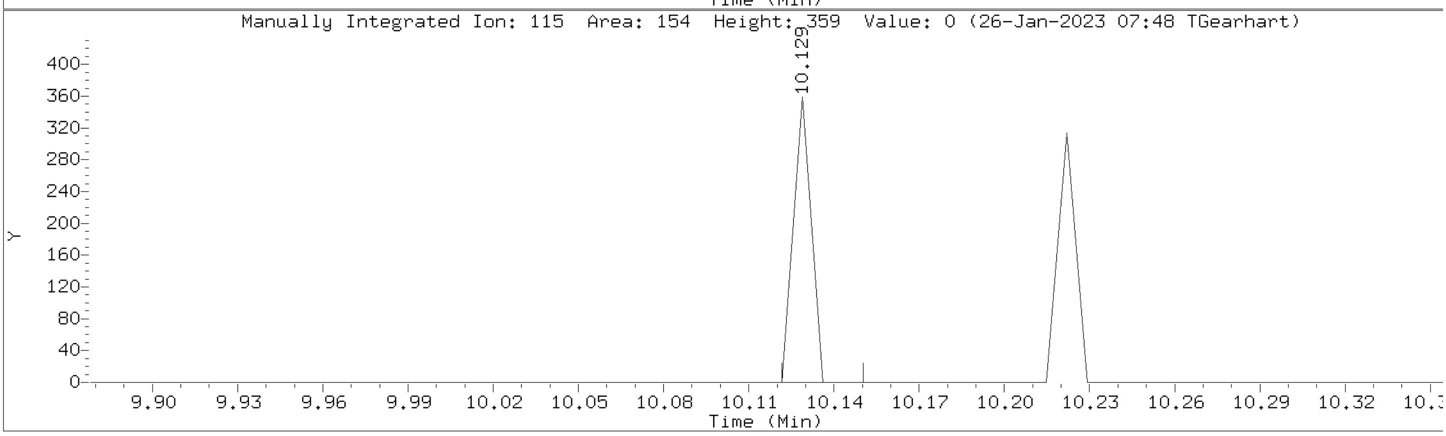
Lab Sample ID: 8260-CAL2





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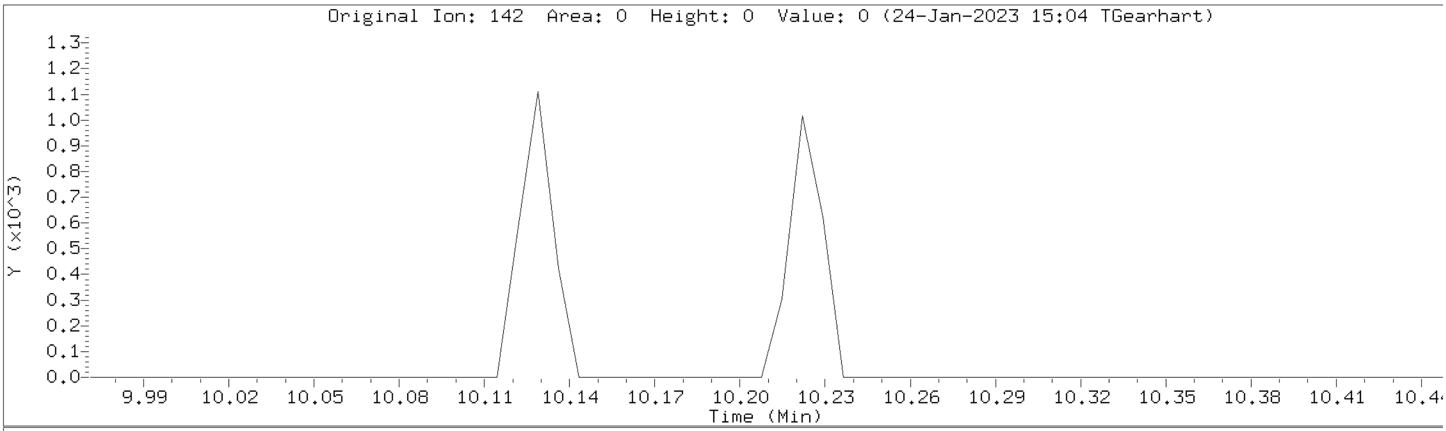
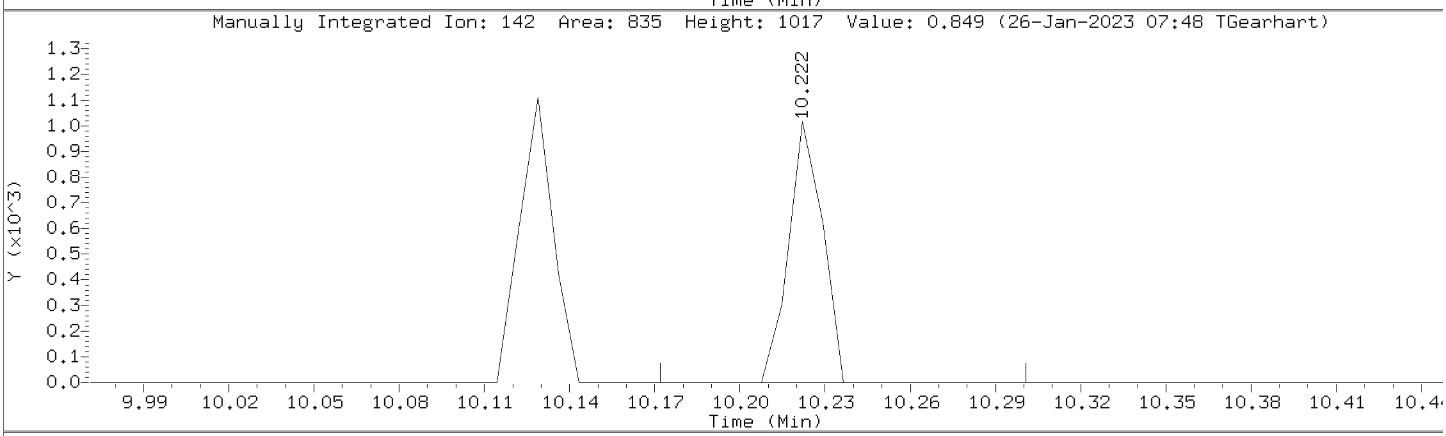
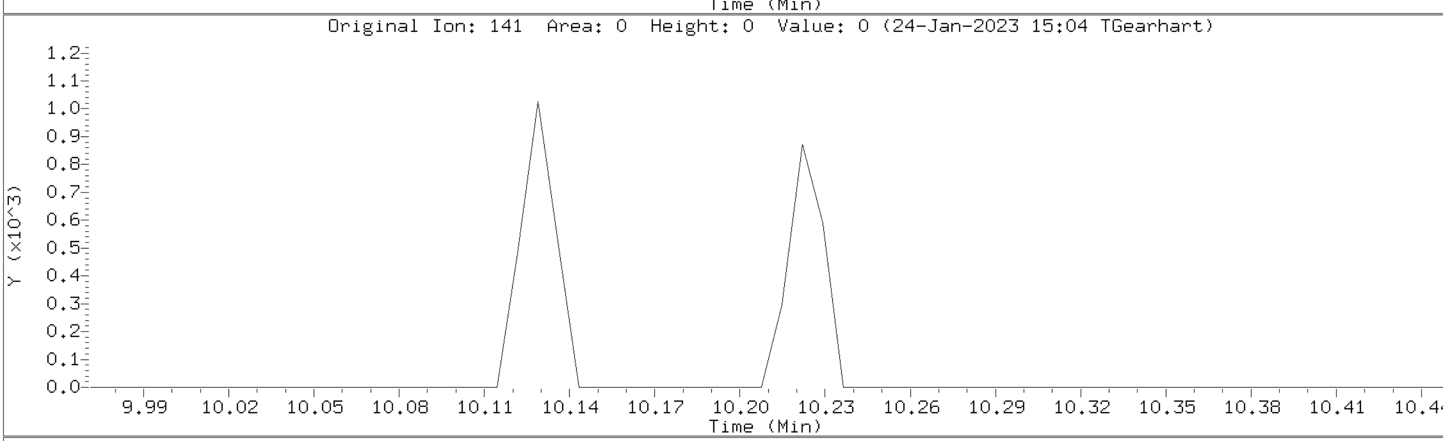
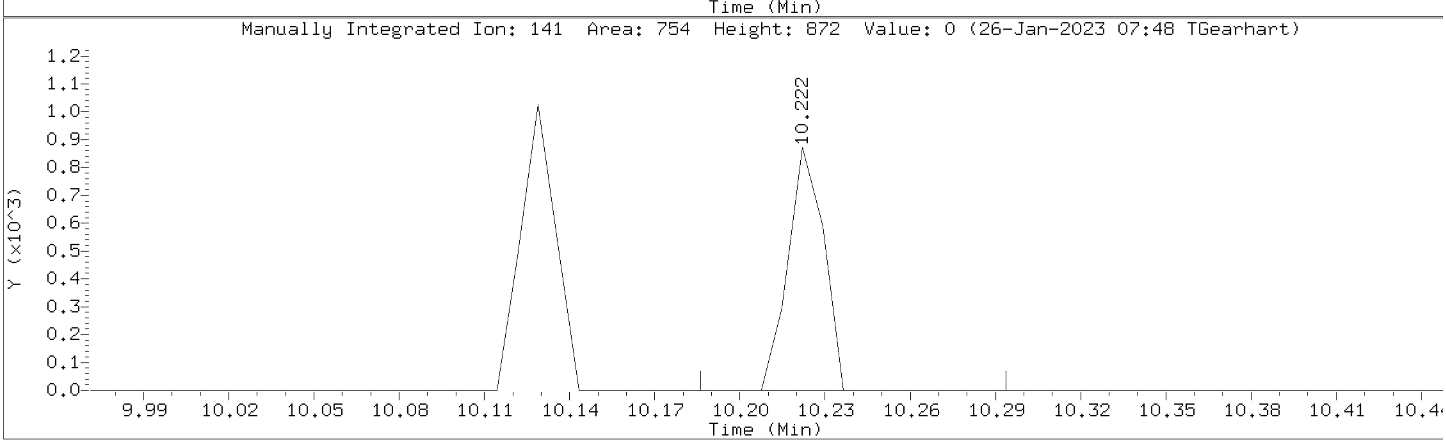
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1-Methylnaphthalene   Review Code: NI
CAS Number: 90-12-0









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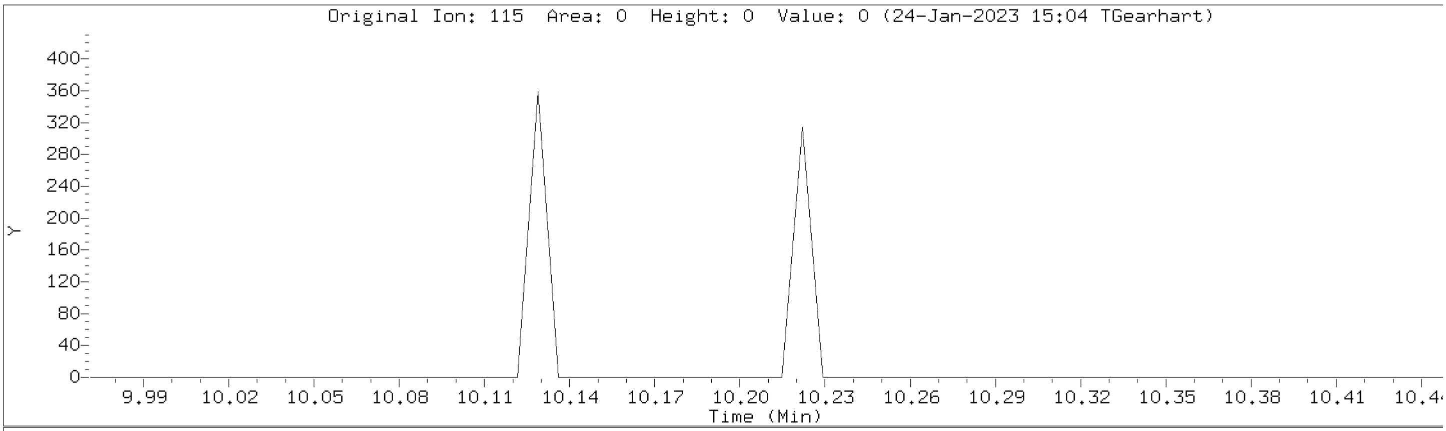

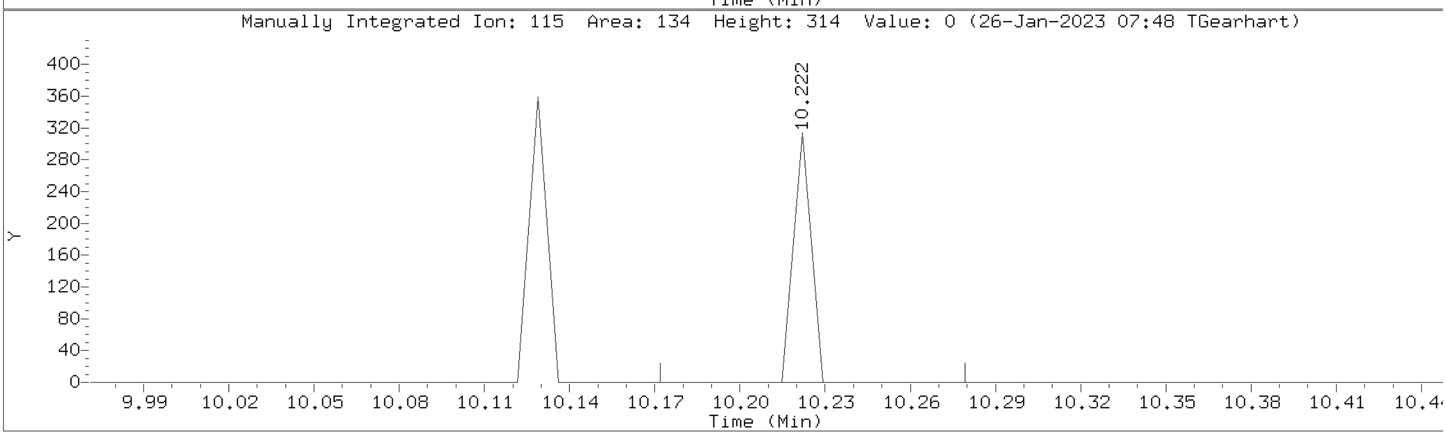

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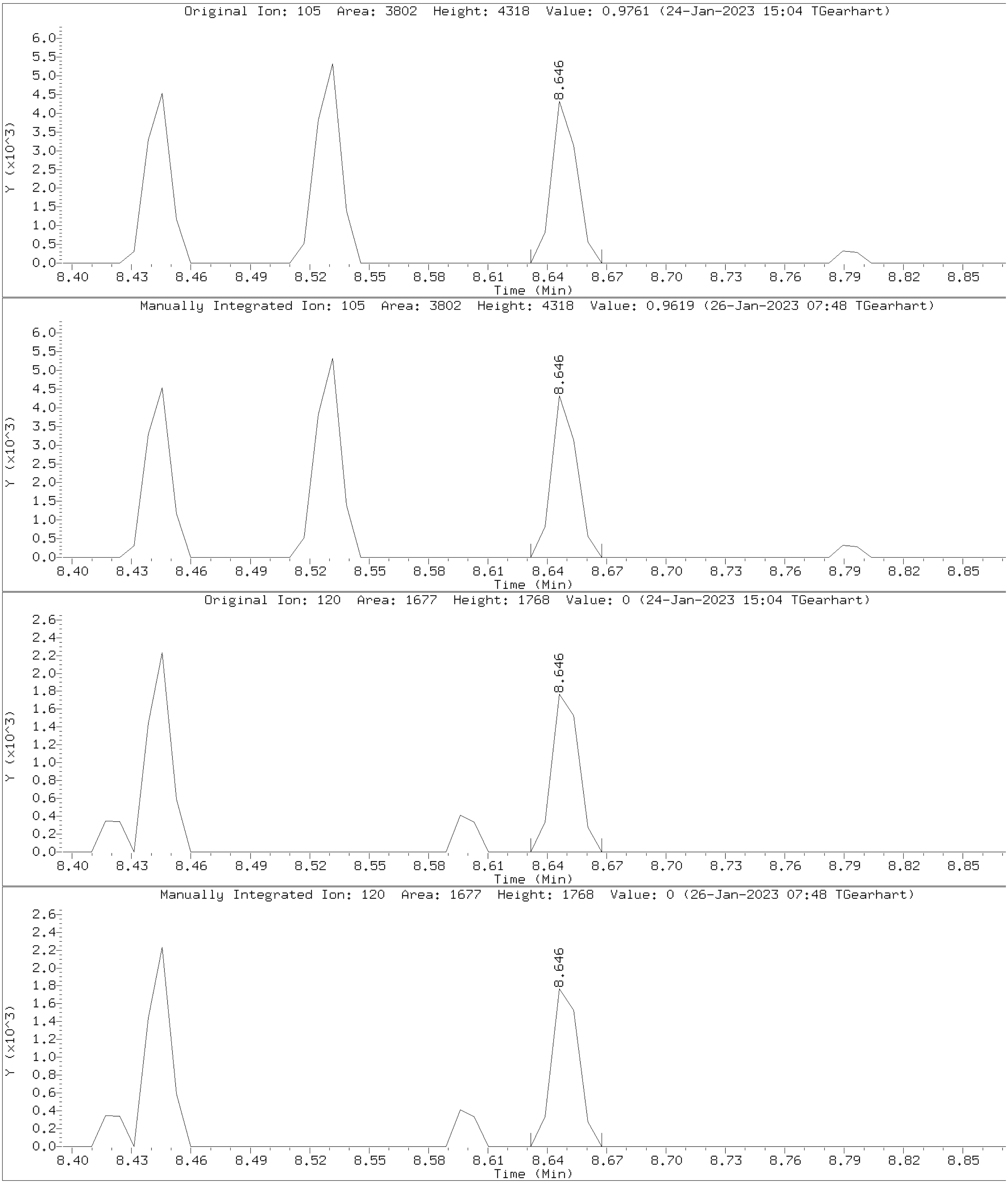
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trimethylbenzene   Review Code: WP
CAS Number: 526-73-8



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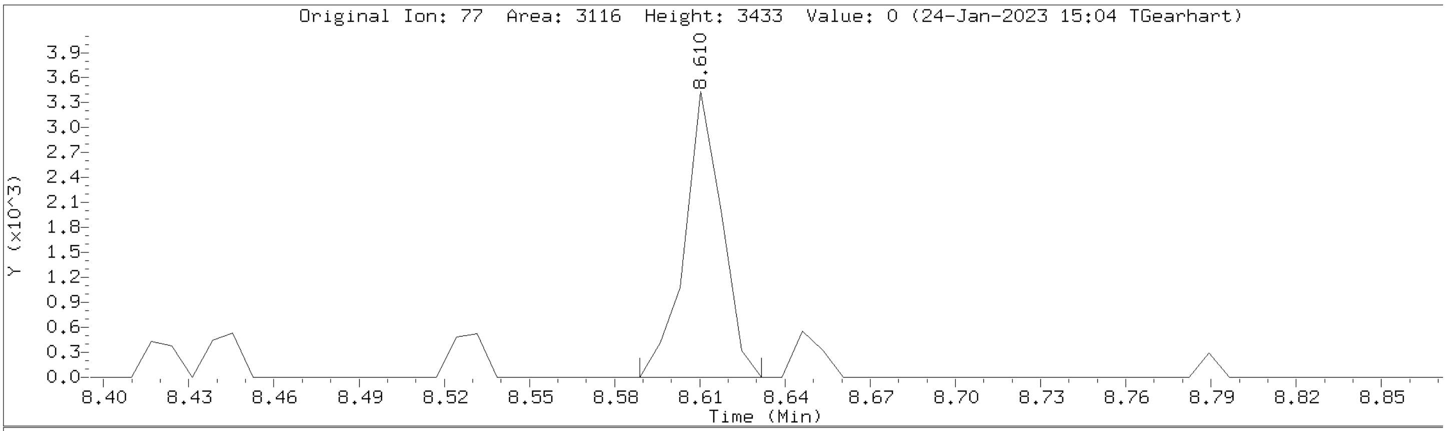
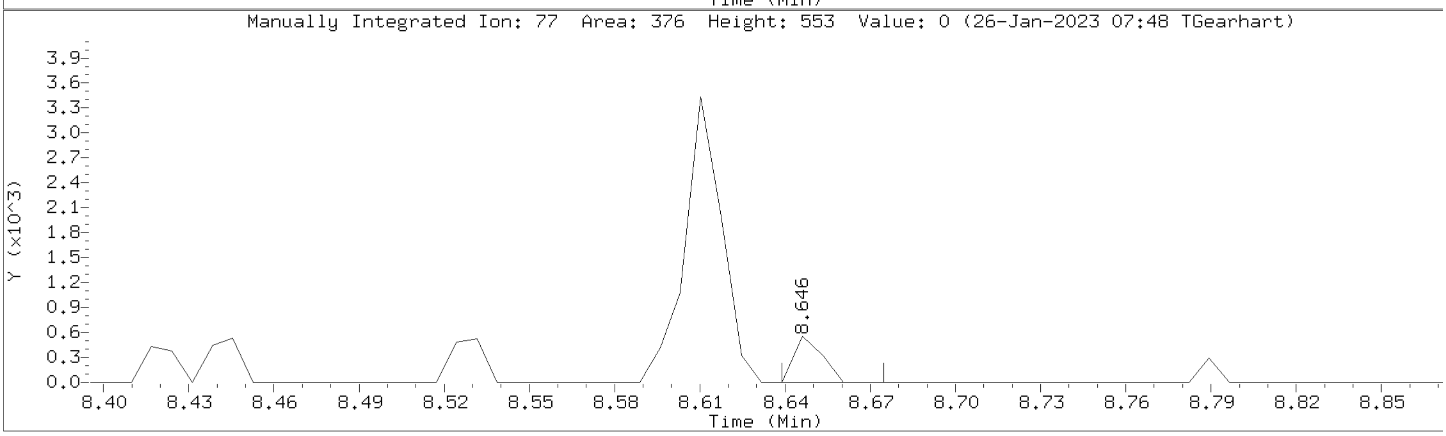
Lab Sample ID: 8260-CAL2





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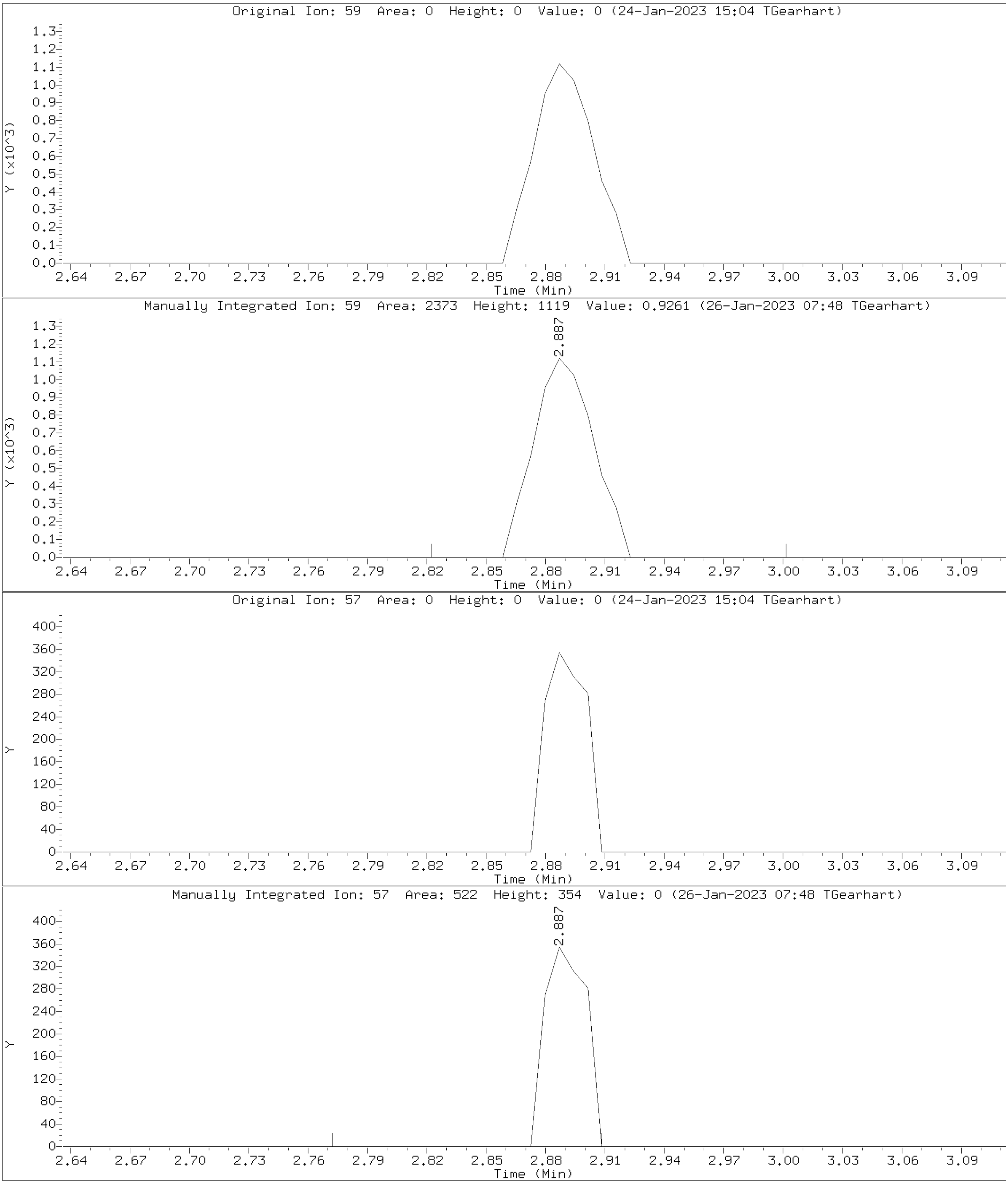
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl-tert-butyl ether   Review Code: NI
CAS Number: 637-92-3



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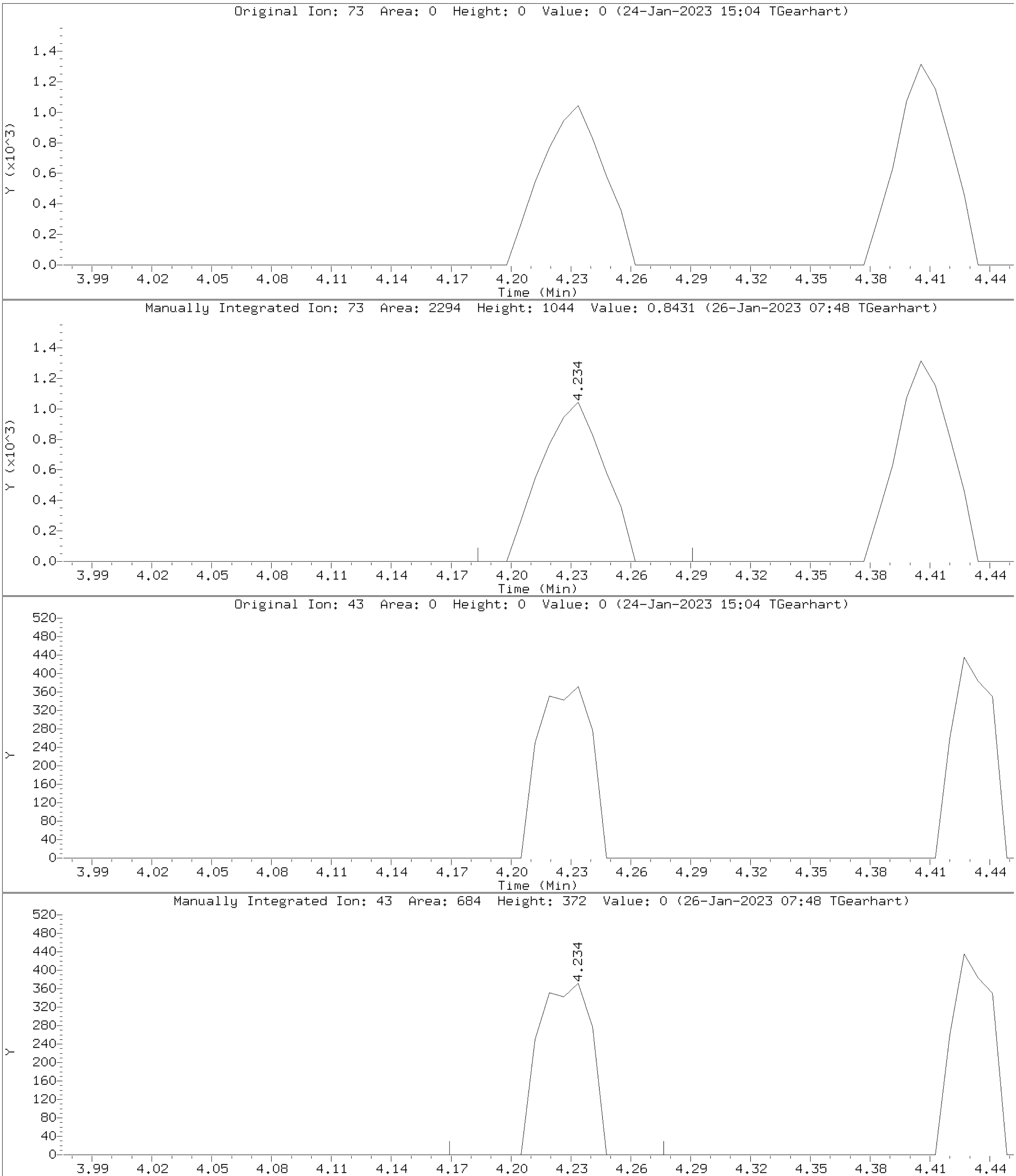
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: tert-Amylmethyl ether   Review Code: NI
CAS Number: 994-05-8



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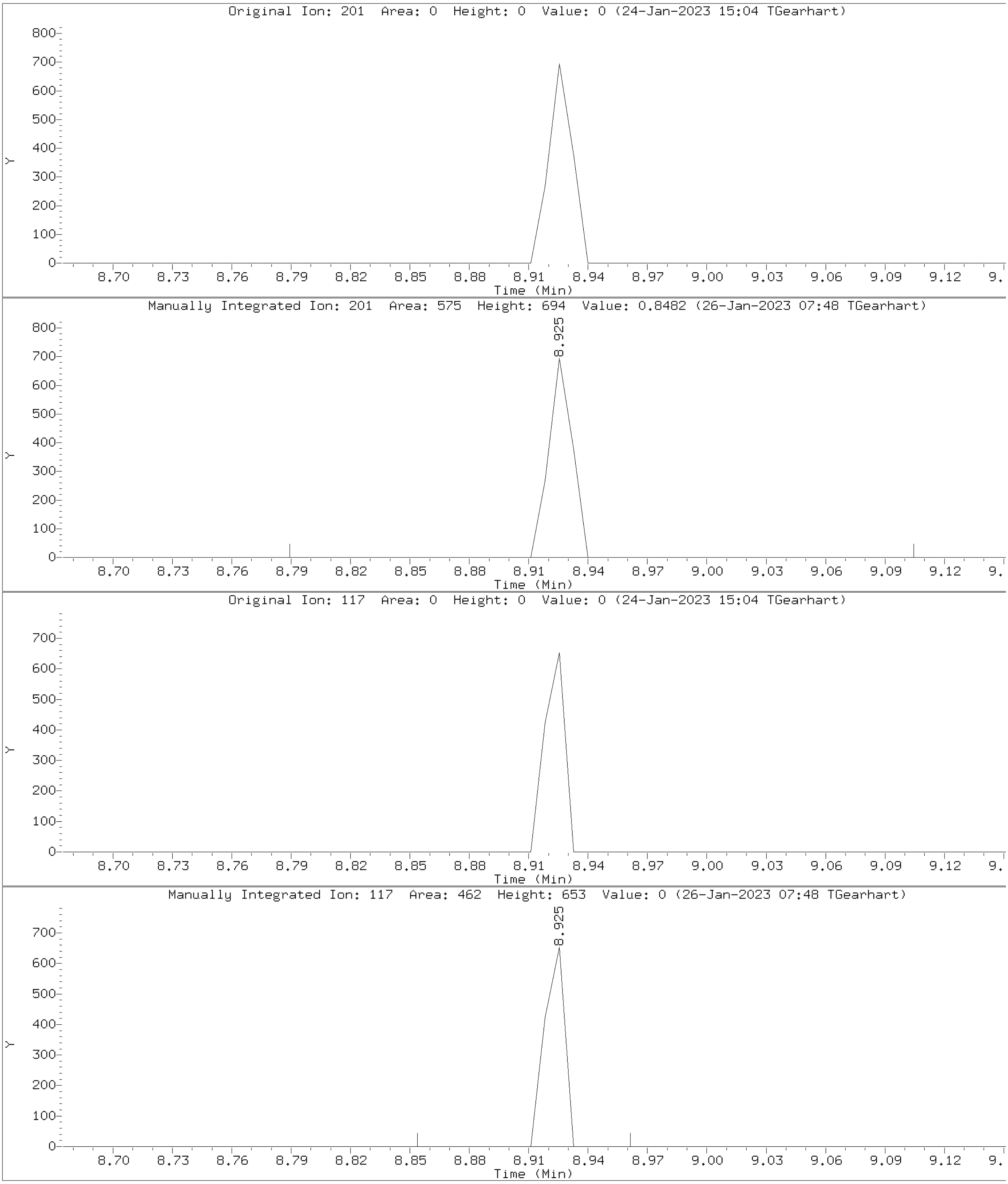
Injection Date: 24-JAN-2023 14:50
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL2

Compound: Hexachloroethane   Review Code: NI
CAS Number: 67-72-1



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a07cal3.d
Lab Smp Id: 8260-CAL3 Client Smp ID: 8260-CAL3
Inj Date : 24-JAN-2023 15:19
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal3,336620
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 7 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	0.974	0.975	(0.221)	1378	2.00000	1.36(M)	NI
2 Chloromethane	50	1.139	1.139	(0.259)	1165	2.00000	1.93(M)	NI
3 Vinyl Chloride	62	1.117	1.117	(0.254)	918	2.00000	1.50	
4 Bromomethane	94	1.275	1.275	(0.289)	690	2.00000	1.46(MH)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	671	2.00000	1.50(M)	NI
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	2279	2.00000	1.74	
7 Diethyl ether	74	1.590	1.590	(0.361)	951	2.00000	1.78	
8 Acrolein	56	1.662	1.662	(0.377)	7327	40.0000	38.6	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	1725	2.00000	1.80	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	1595	2.00000	1.94	
11 Acetone	43	1.740	1.740	(0.395)	3890	10.0000	12.2	
12 Iodomethane	142	1.819	1.819	(0.413)	1830	2.00000	1.67	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	5064	2.00000	2.30	
14 Acetonitrile	39	1.927	1.927	(0.437)	1743	10.0000	11.6(M)	NI
15 allyl chloride	41	1.927	1.927	(0.437)	2915	2.00000	2.22	
16 Methyl Acetate	43	1.934	1.934	(0.439)	8852	10.0000	11.8	
17 Methylene Chloride	84	2.006	2.006	(0.455)	2467	2.00000	2.34	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	634	10.0000	10.0(M)	WP
19 Acrylonitrile	53	2.156	2.156	(0.489)	3841	10.0000	11.0	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	5600	2.00000	2.08	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	1839	2.00000	1.95	
22 n-Hexane	57	2.392	2.392	(0.543)	2269	2.00000	1.90(M)	NI
23 1,1-Dichloroethane	63	2.507	2.507	(0.569)	2912	2.00000	1.98	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.536	2.536	(0.576)	15074	8.00000	7.92	
	25 Diisopropyl ether	45	2.557	2.557	(0.581)	4925	2.00000	2.06	
	26 chloroprene	53	2.579	2.579	(0.585)	2460	2.00000	1.94	
	27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	5299	2.00000	2.07	
	28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	1979	2.00000	1.89	
	29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	2381	2.00000	1.86	
	30 2-Butanone	43	3.037	3.037	(0.689)	5028	10.0000	11.4(M)	WP
	31 Propionitrile	54	3.101	3.101	(0.704)	780	10.0000	6.67(M)	NI
	32 Ethyl Acetate	88	3.109	3.109	(0.706)	120	10.0000	8.83(M)	NI
	33 Methacrylonitrile	41	3.259	3.259	(0.740)	5828	10.0000	10.9	
	34 Bromochloromethane	49	3.266	3.266	(0.741)	858	2.00000	1.97	
	35 Tetrahydrofuran	42	3.338	3.338	(0.758)	3088	10.0000	9.85	
	36 Chloroform	83	3.367	3.367	(0.764)	3513	2.00000	2.03	
$	37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	55280	50.0000	50.0	
	38 1,1,1-Trichloroethane	97	3.581	3.581	(0.813)	2942	2.00000	1.91	
	39 Cyclohexane	56	3.660	3.660	(0.831)	2555	2.00000	1.92	
	40 Carbon Tetrachloride	117	3.803	3.803	(0.863)	2359	2.00000	1.70	
	41 1,1-Dichloropropene	75	3.803	3.803	(0.863)	2136	2.00000	1.86	
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	4.061	4.061	(0.922)	7554	2.00000	2.04	
	44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	2564	2.00000	1.99(M)	NI
	45 2,2,4-Trimethylpentane	57	4.405	4.405	(1.000)	7037	2.00000	1.92	
	46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	5313	2.00000	1.95	
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	203826	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	1923	2.00000	1.89	
	49 Methylcyclohexane	55	5.050	5.050	(1.146)	2170	2.00000	1.91	
	50 1,2-Dichloropropane	63	5.079	5.079	(1.153)	1609	2.00000	1.91(M)	NI
	51 Dibromomethane	93	5.200	5.200	(1.180)	1103	2.00000	1.82	
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	5.258	5.258	(1.193)	1384	2.00000	1.82	
	54 Bromodichloromethane	83	5.387	5.387	(1.223)	2302	2.00000	1.90(M)	NI
	55 2-Chloroethyl vinyl ether	63	5.738	5.738	(0.785)	6573	10.0000	10.5	
	56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	2729	2.00000	1.90	
	57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	10778	10.0000	10.4	
$	58 Toluene-d8	98	6.131	6.131	(0.839)	199803	50.0000	50.3	
	59 Toluene	91	6.203	6.203	(0.849)	9016	2.00000	2.08	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	2468	2.00000	1.82	
	61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	2396	2.00000	1.84(M)	NI
	62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	1320	2.00000	1.87	
	63 Tetrachloroethene	166	6.697	6.697	(0.917)	2651	2.00000	1.99	
	64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	2911	2.00000	2.02	
	65 2-Hexanone	43	6.812	6.812	(0.932)	8265	10.0000	10.7	
	66 Dibromochloromethane	129	6.898	6.898	(0.944)	2007	2.00000	1.87	
	67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	1801	2.00000	1.90	
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	156135	50.0000		
	69 Chlorobenzene	112	7.328	7.328	(1.003)	6164	2.00000	2.07	
	70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	1954	2.00000	1.86	
	71 Ethylbenzene	106	7.407	7.407	(1.014)	3105	2.00000	1.96	
	72 m&p-Xylene	106	7.485	7.485	(1.025)	4107	2.00000	2.08	
	73 o-Xylene	106	7.722	7.722	(1.057)	3855	2.00000	2.05	
	74 Styrene	104	7.736	7.736	(1.059)	6520	2.00000	2.03	
	75 Bromoform	173	7.836	7.836	(0.910)	1250	2.00000	2.08(M)	NI
	76 Isopropylbenzene	105	7.937	7.937	(1.086)	10661	2.00000	2.11	
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	76404	50.0000	50.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
=========================	====	====	========	========	========	=======	=======	========
78 Bromobenzene	77	8.094	8.094	(1.108)	3848	2.00000	2.16	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	2544	2.00000	2.04(M)	NI
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	883	2.00000	1.95(M)	NI
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	663	2.00000	2.08(M)	NI
82 n-Propylbenzene	91	8.159	8.159	(0.948)	11842	2.00000	2.08	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	6788	2.00000	2.05	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	8737	2.00000	2.10	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	2590	2.00000	2.07	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	8858	2.00000	2.07(M)	LT
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	8985	2.00000	2.11	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	10456	2.00000	2.04	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	5002	2.00000	2.03	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	9332	2.00000	2.05	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	85510	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	4999	2.00000	2.06	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	8371	2.00000	2.09(M)	WP
94 n-Butylbenzene	91	8.789	8.789	(1.021)	7312	2.00000	2.01	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	4460	2.00000	2.03	
96 Hexachloroethane	201	8.925	8.925	(1.037)	1176	2.00000	1.71	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	528	2.00000	2.18(M)	NI
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	2527	2.00000	1.93	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	1273	2.00000	1.98	
100 Naphthalene	128	9.627	9.627	(1.118)	6851	2.00000	2.00	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	2203	2.00000	2.13	
102 2,methyl-naphthalene	142	10.129	10.129	(1.176)	2346	2.00000	2.02	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	1977	2.00000	1.99	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a07cal3.d

Page 4

Date : 24-JAN-2023 15:19

Client ID: 8260-CAL3

Instrument: 50mv2a.i

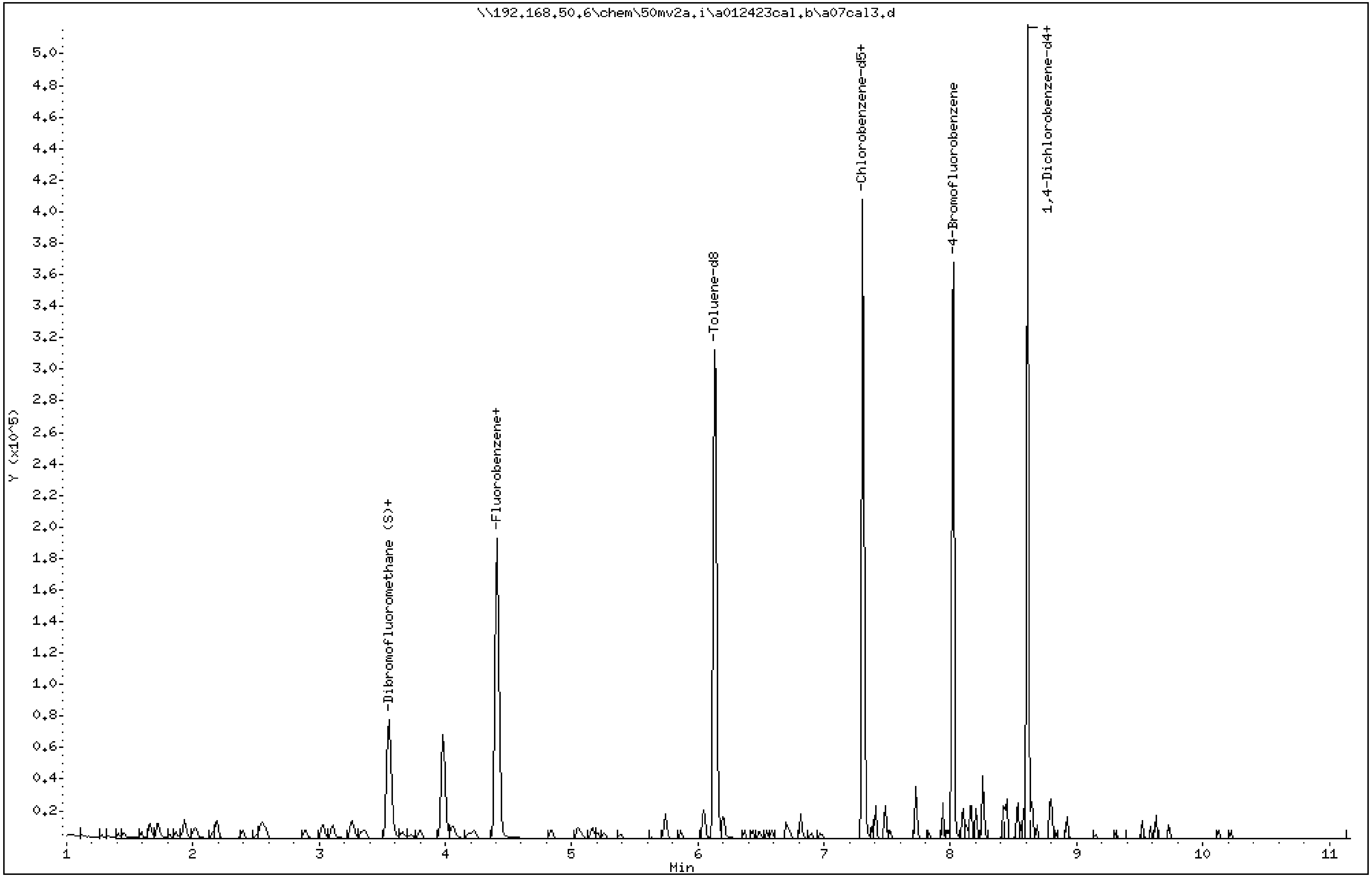
Sample Info: 8260-CAL3,336620

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 24-JAN-2023 15:19

Client ID: 8260-CAL3

Instrument: 50mv2a.i

Sample Info: 8260-CAL3,336620

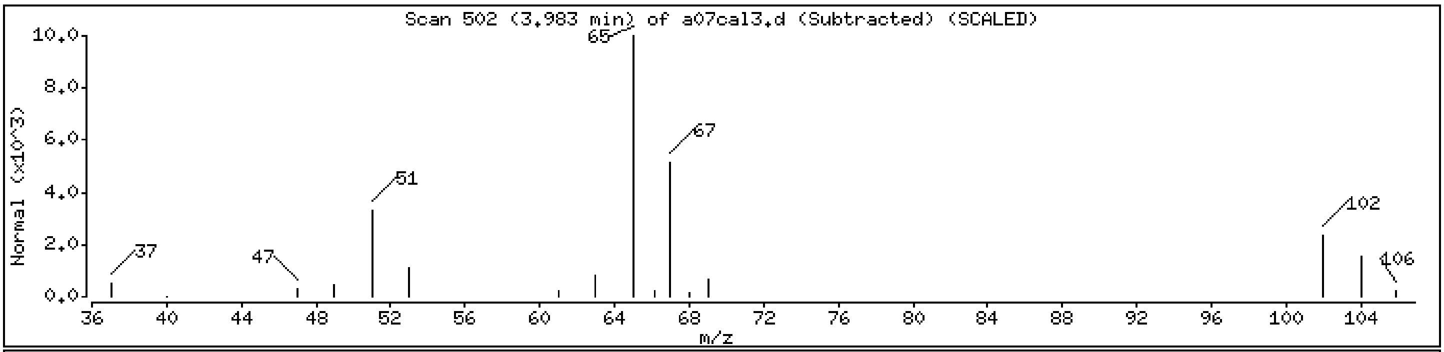
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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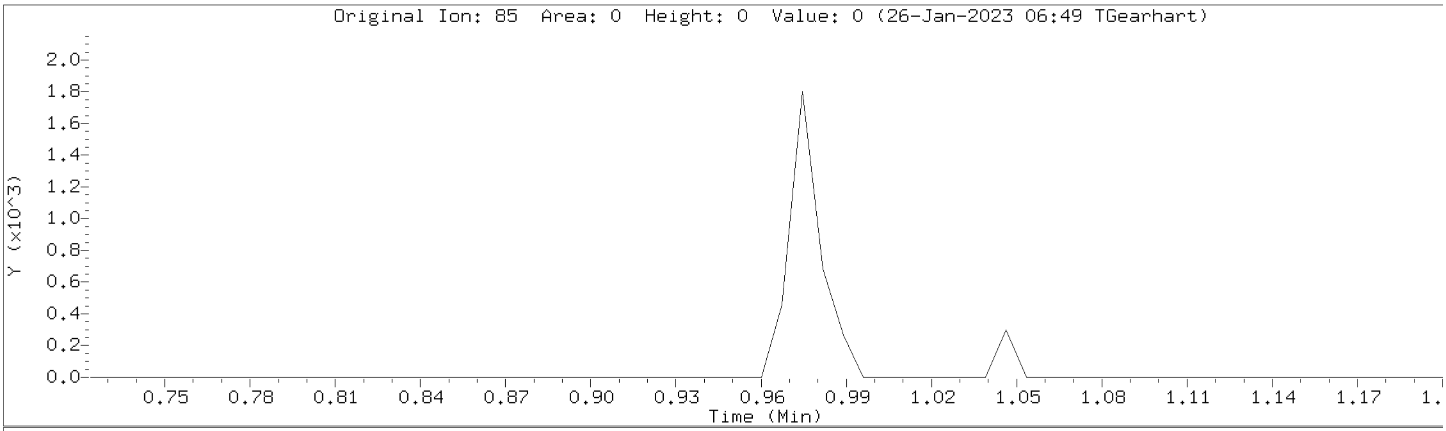
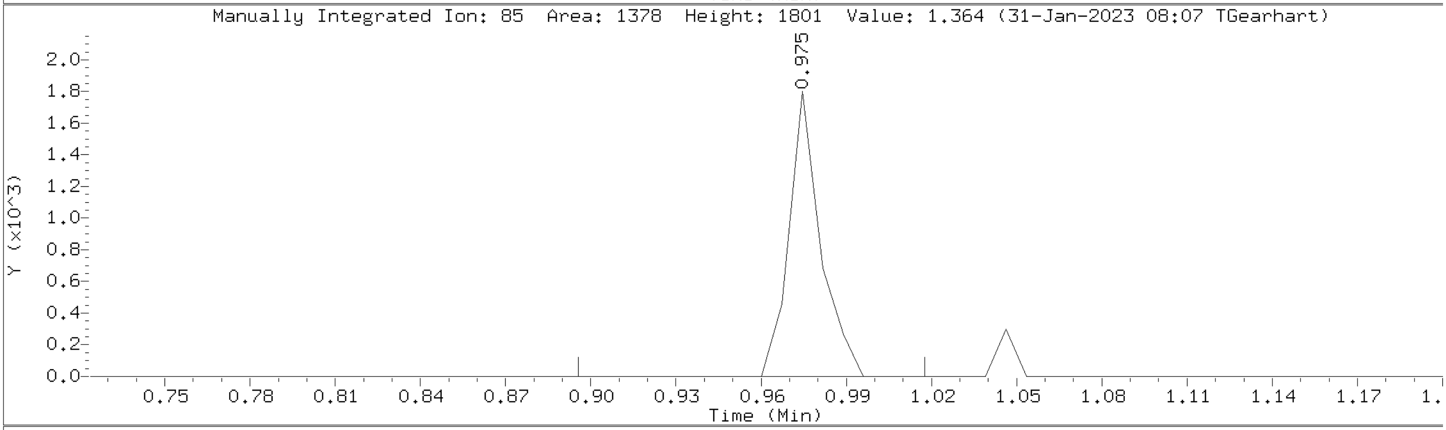
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 460-00-4

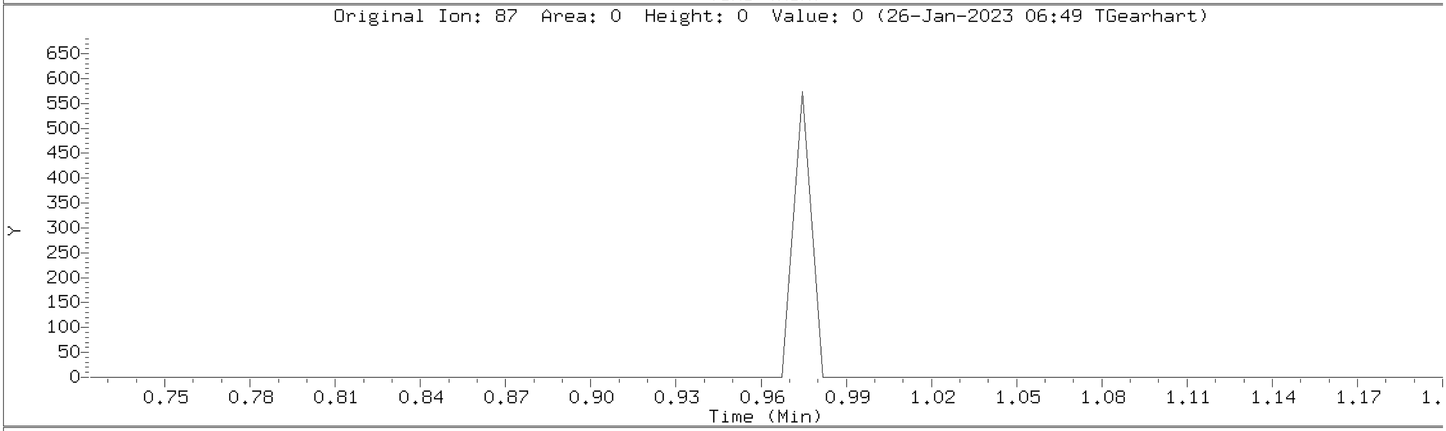
Original Ion: 85 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



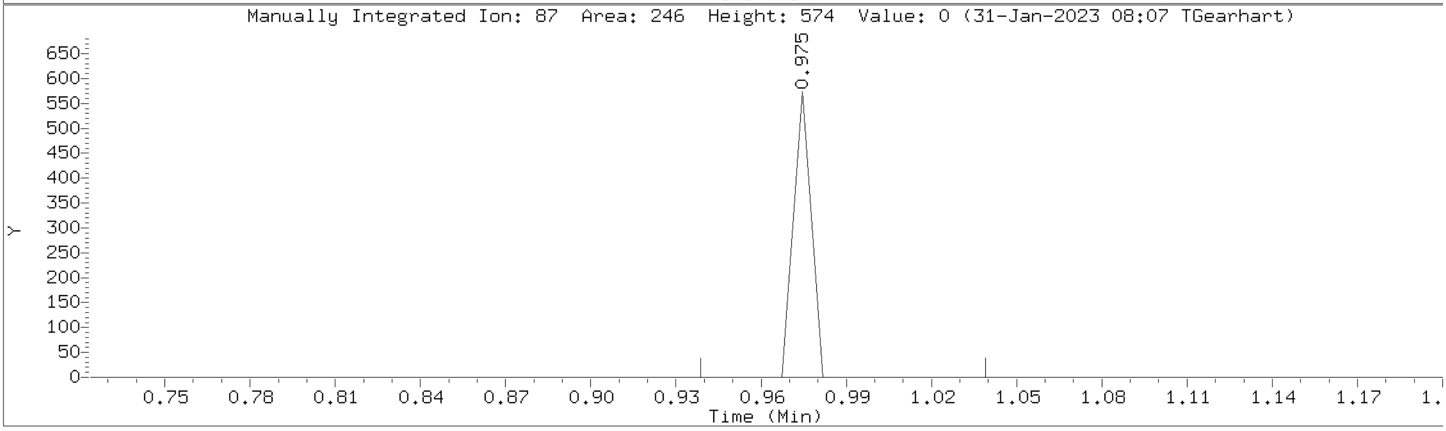
Manually Integrated Ion: 85 Area: 1378 Height: 1801 Value: 1.364 (31-Jan-2023 08:07 TGearhart)



Original Ion: 87 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 87 Area: 246 Height: 574 Value: 0 (31-Jan-2023 08:07 TGearhart)



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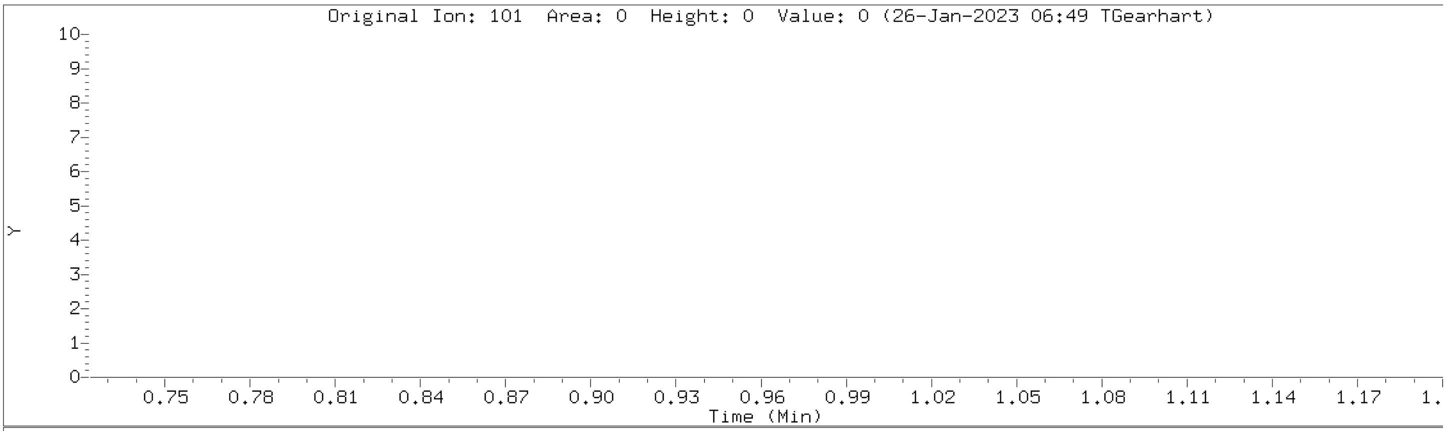
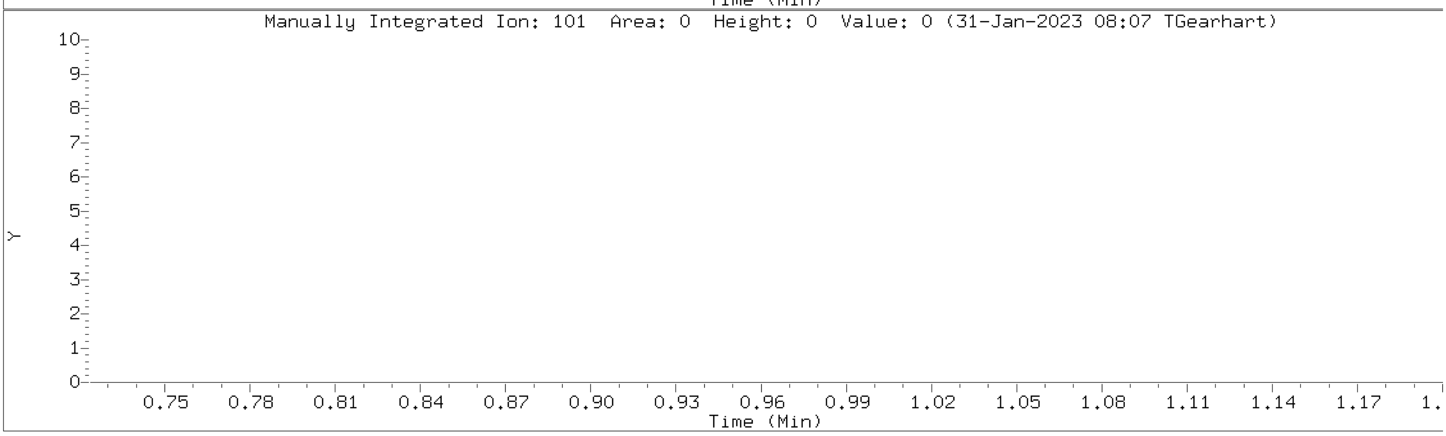
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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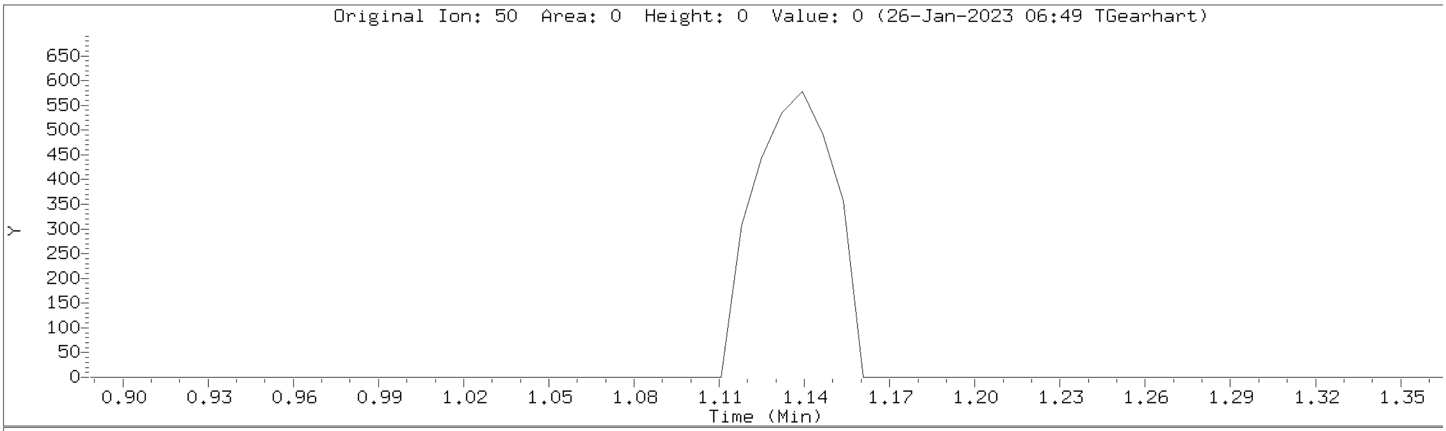
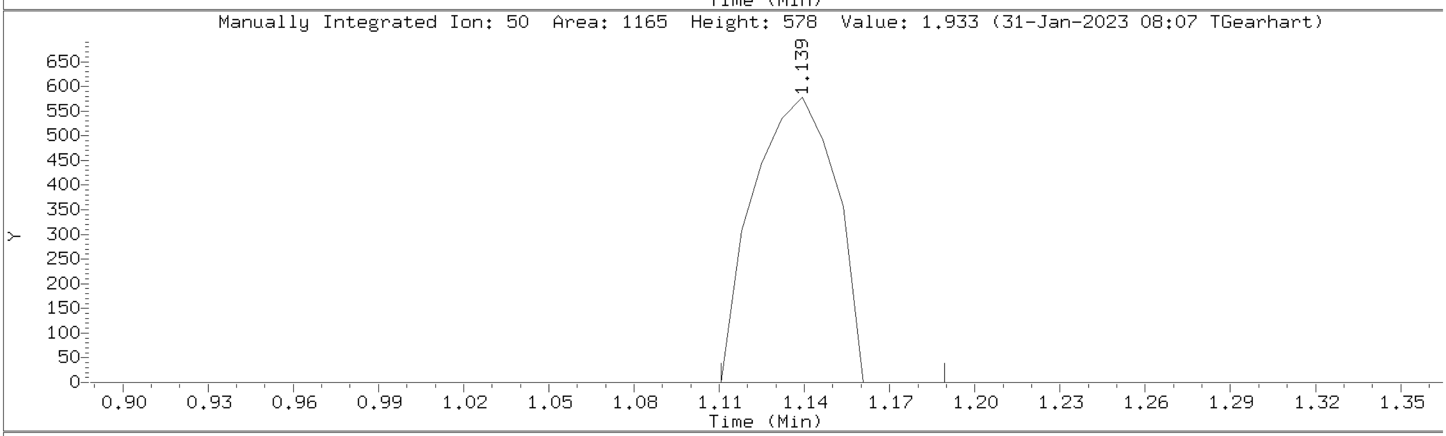
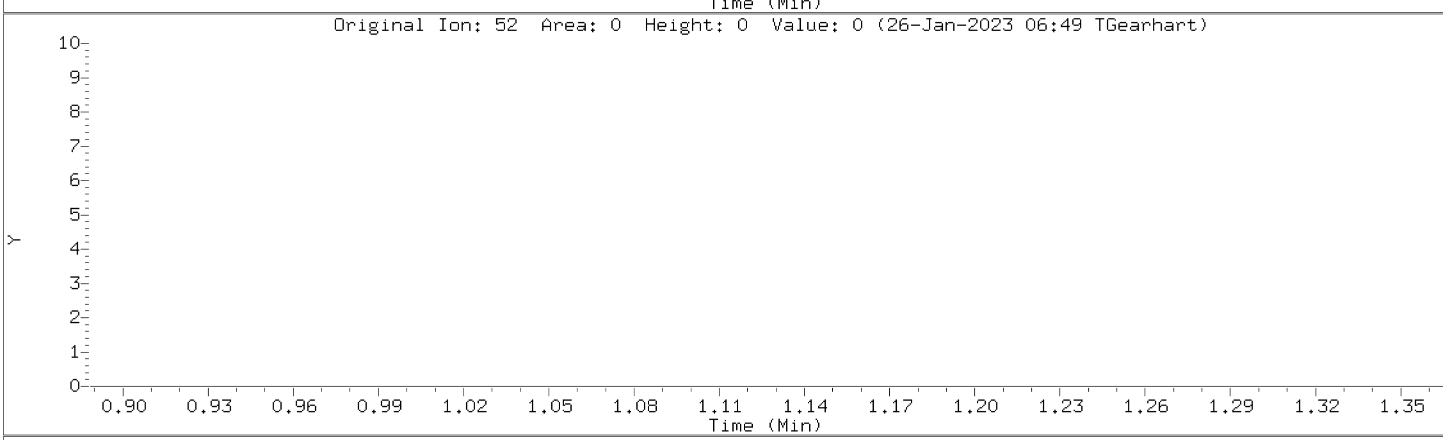
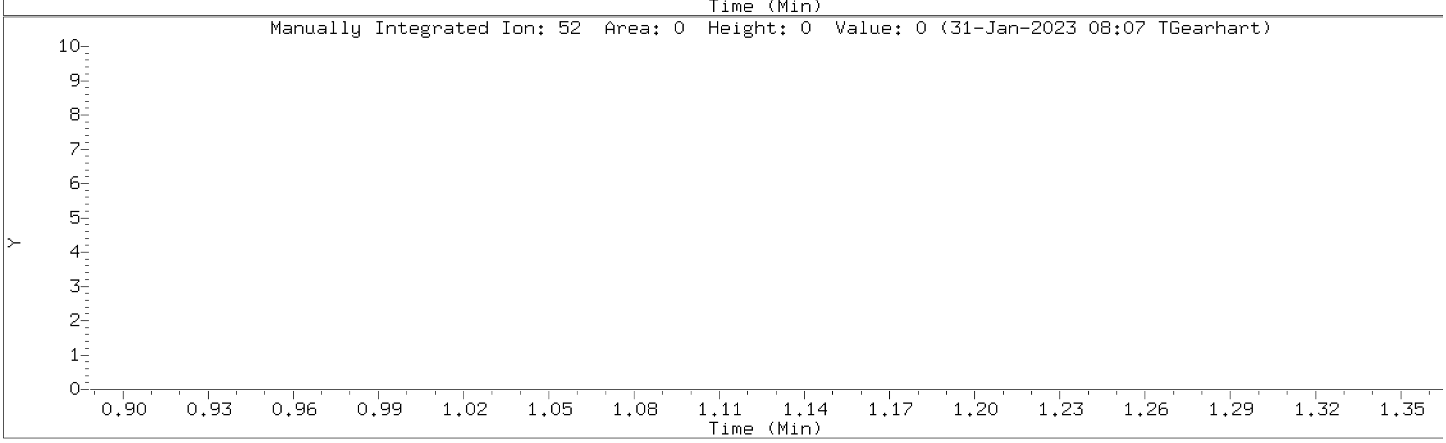
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Chloromethane   Review Code: NI
CAS Number: 74-87-3









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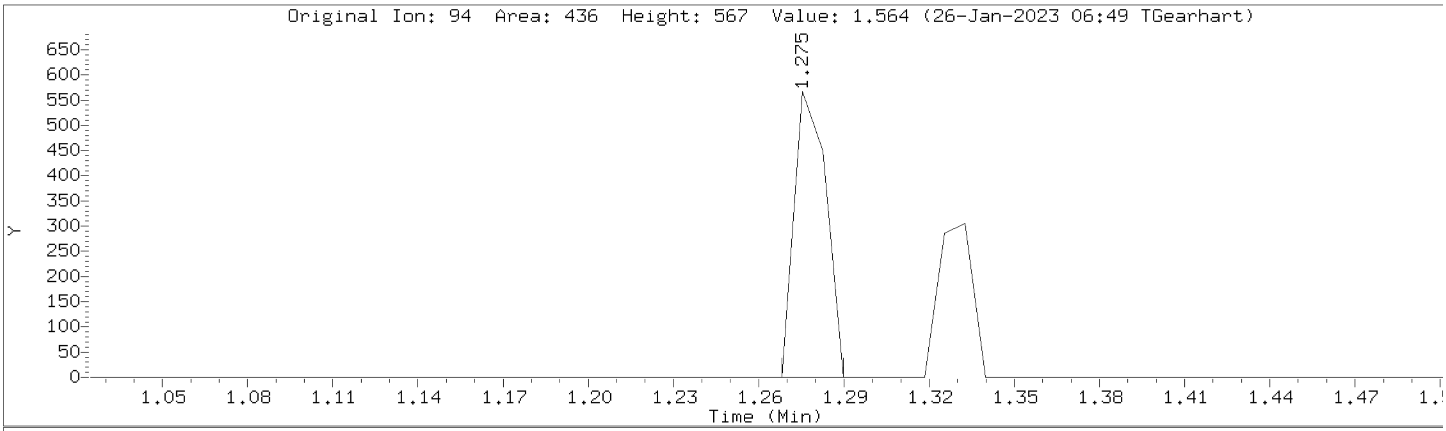
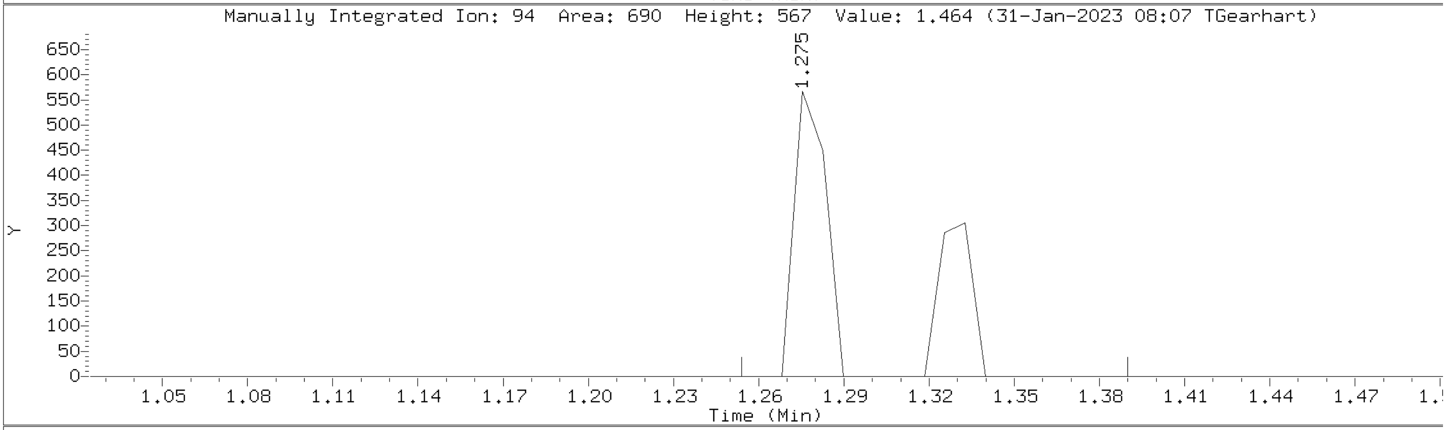
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

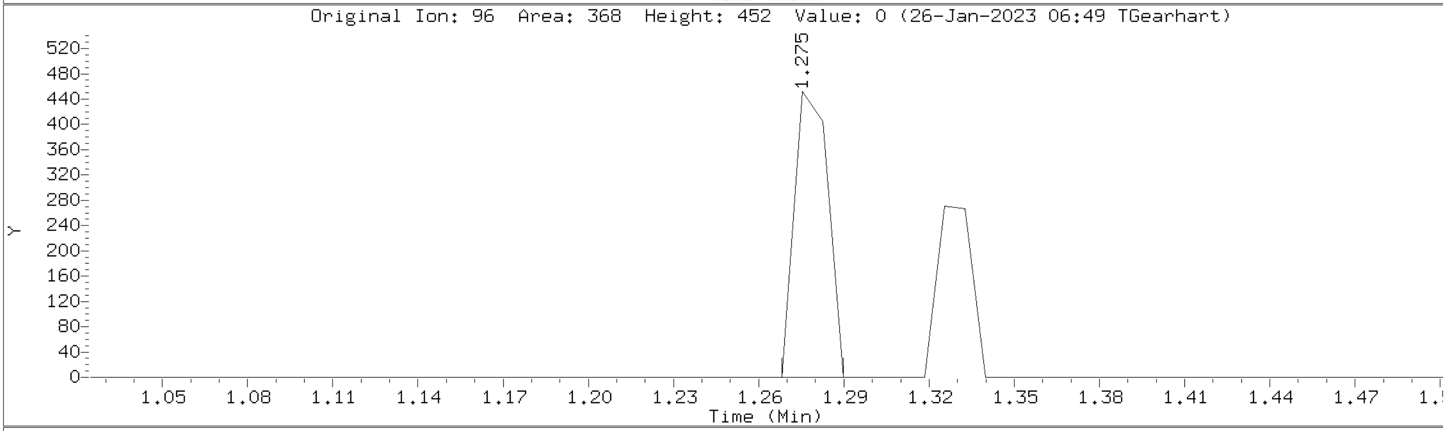
Original Ion: 94 Area: 436 Height: 567 Value: 1.564 (26-Jan-2023 06:49 TGearhart)



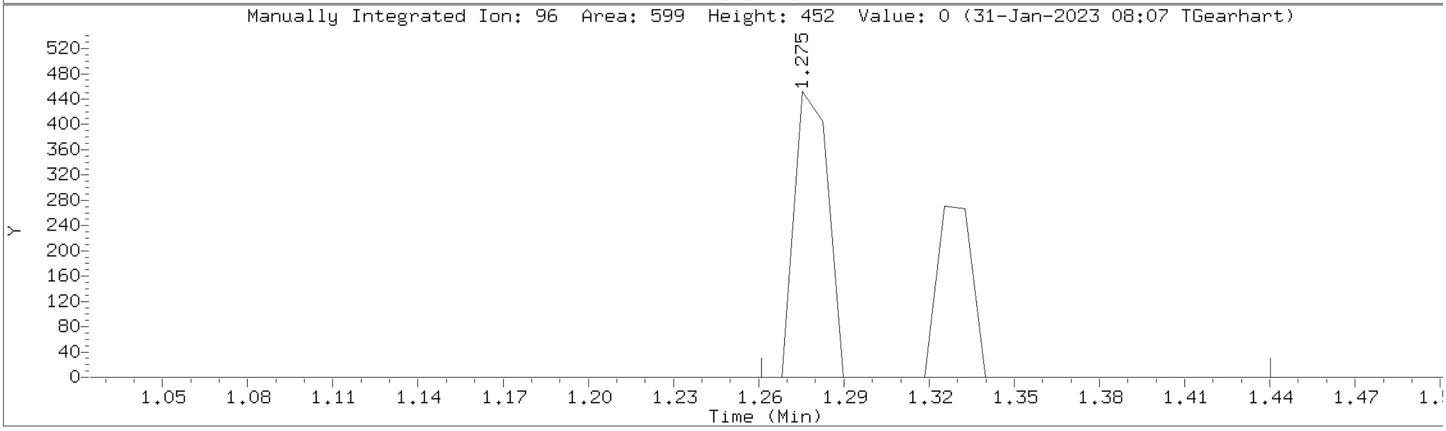
Manually Integrated Ion: 94 Area: 690 Height: 567 Value: 1.464 (31-Jan-2023 08:07 TGearhart)



Original Ion: 96 Area: 368 Height: 452 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 96 Area: 599 Height: 452 Value: 0 (31-Jan-2023 08:07 TGearhart)



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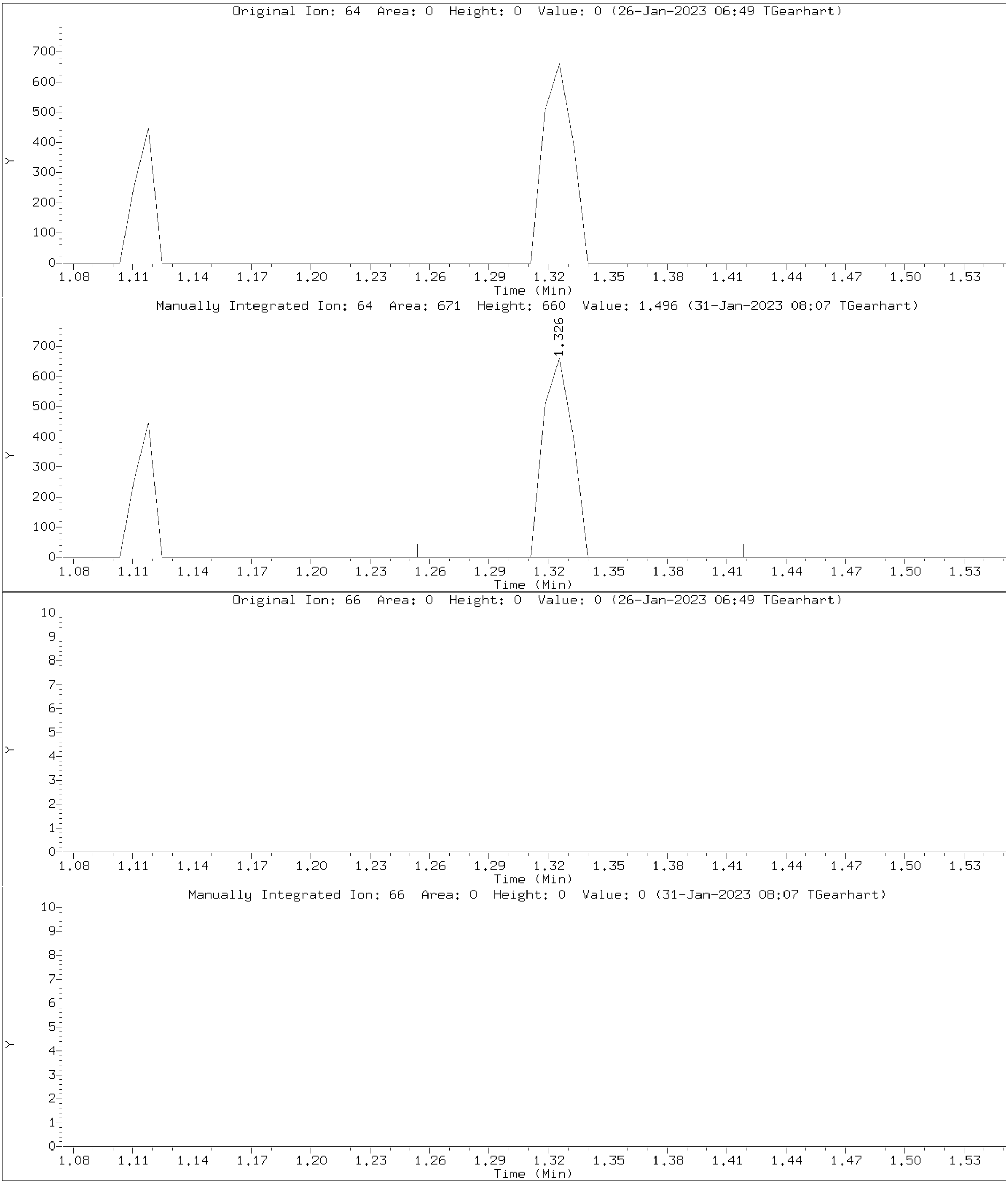
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Chloroethane   Review Code: NI
CAS Number: 75-00-3



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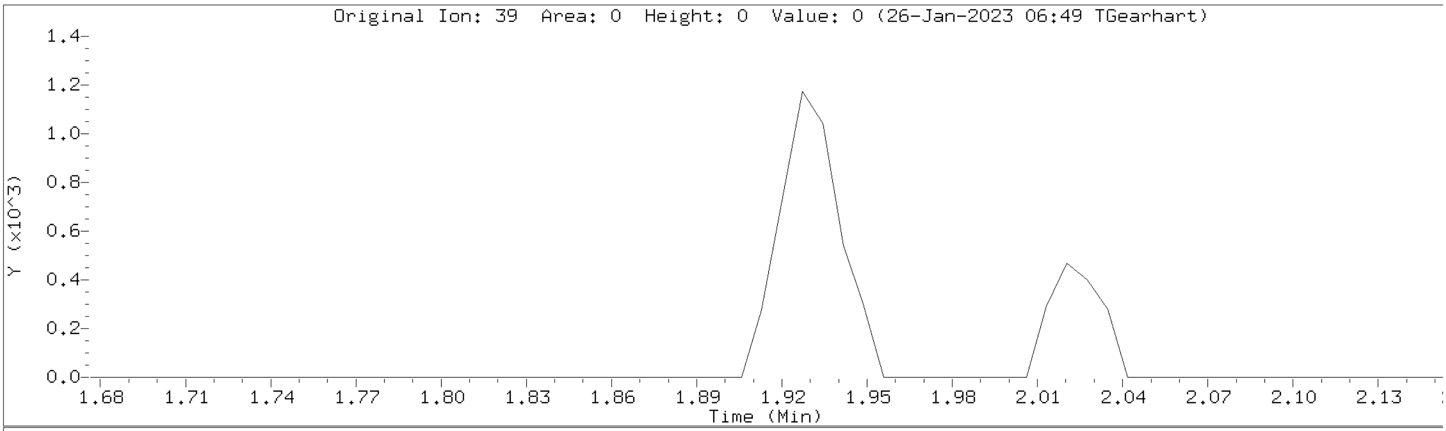
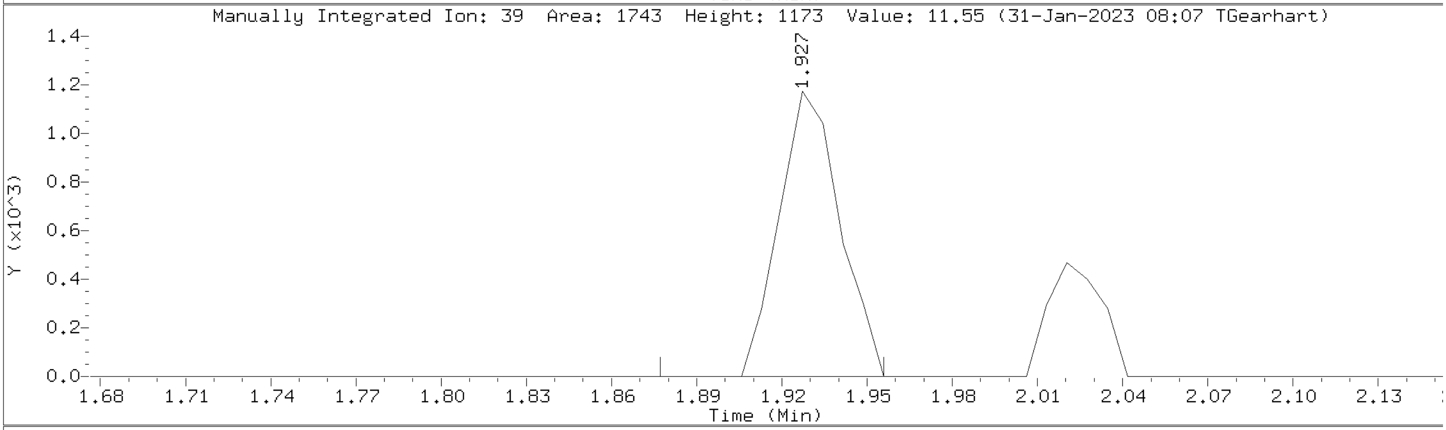
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Acetonitrile   Review Code: NI
CAS Number: 75-05-8

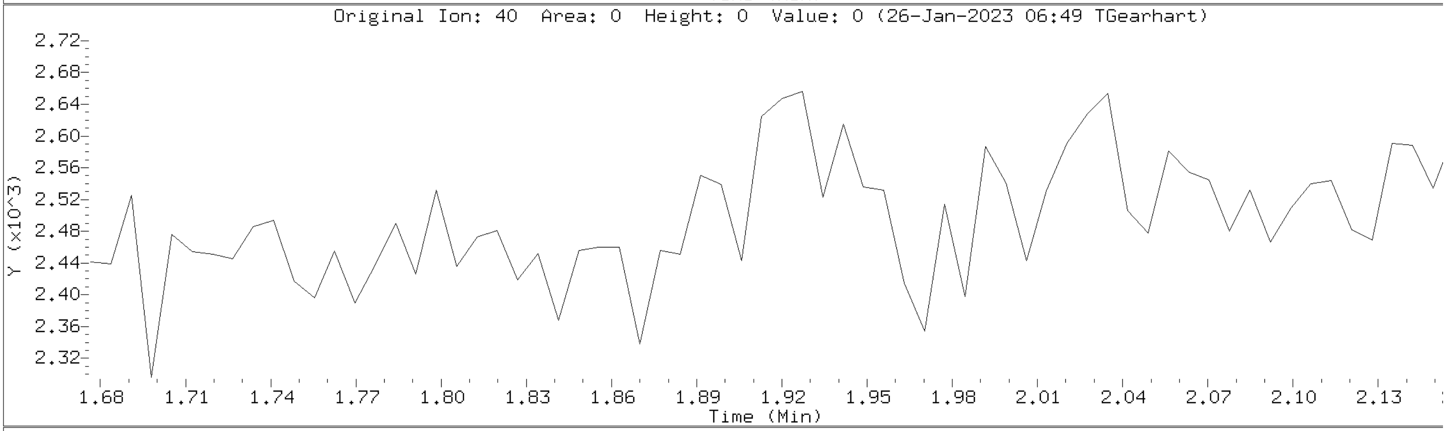
Original Ion: 39 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



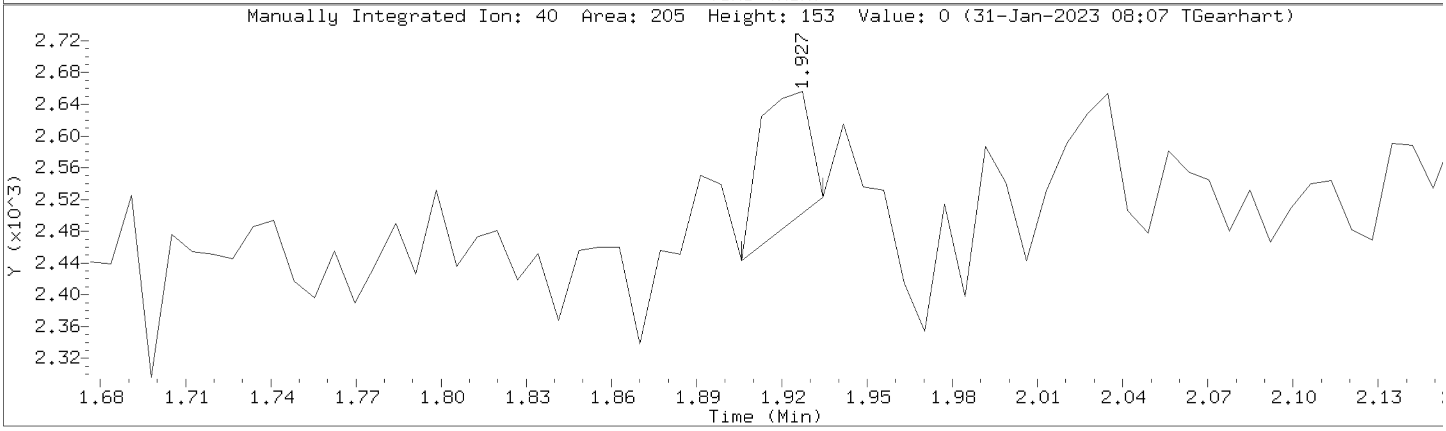
Manually Integrated Ion: 39 Area: 1743 Height: 1173 Value: 11.55 (31-Jan-2023 08:07 TGearhart)



Original Ion: 40 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 40 Area: 205 Height: 153 Value: 0 (31-Jan-2023 08:07 TGearhart)



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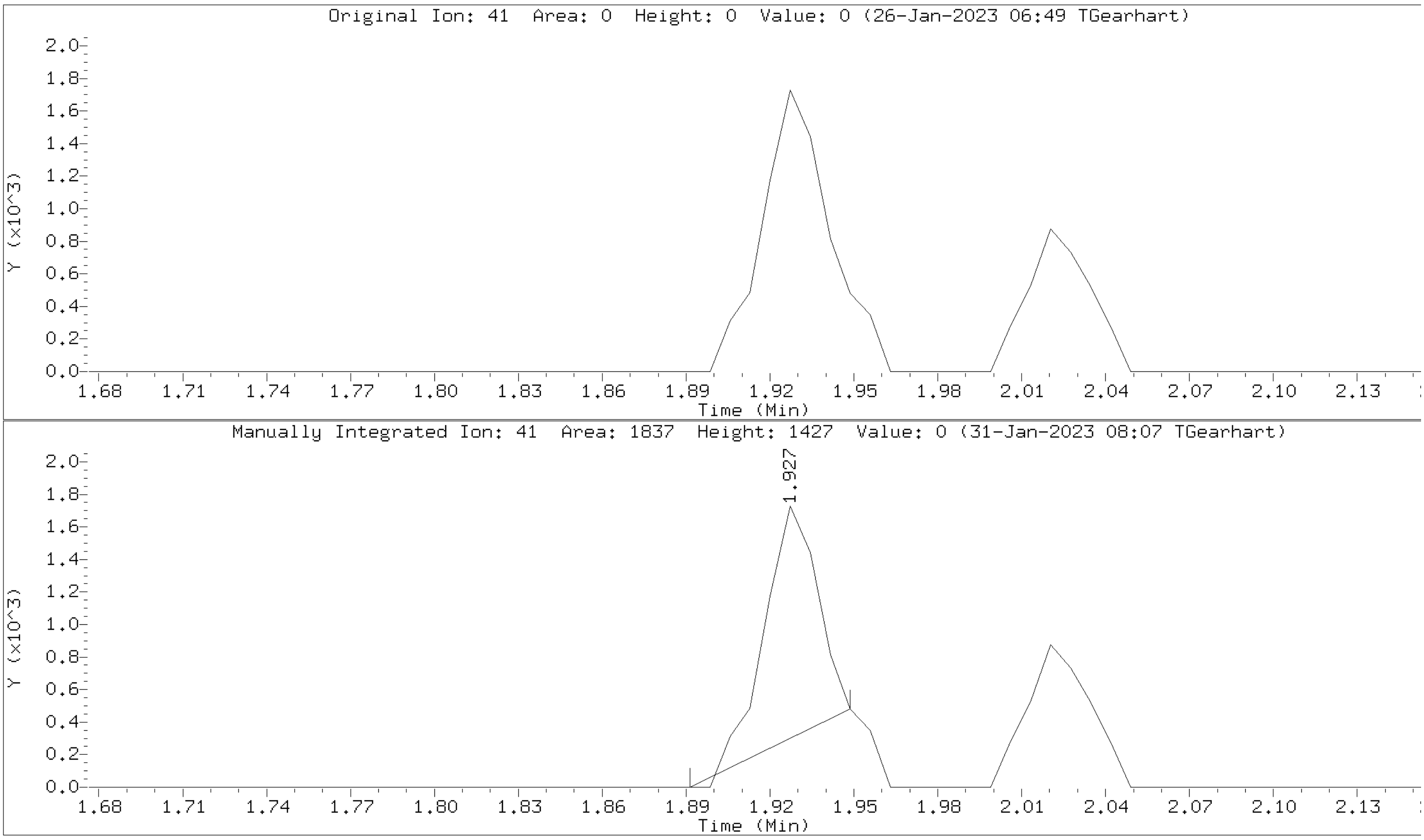
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3



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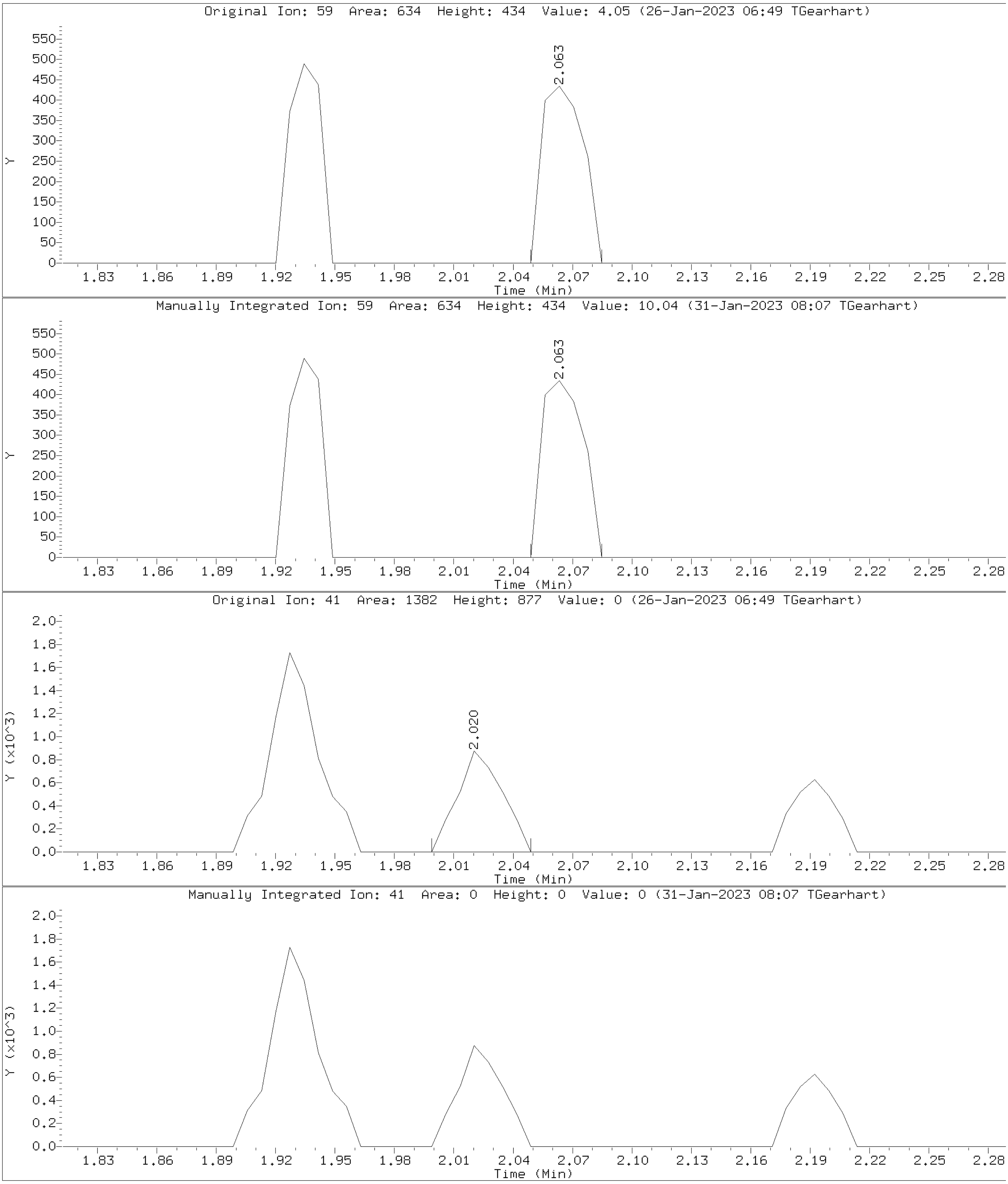
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butyl Alcohol   Review Code: WP
CAS Number: 75-65-0



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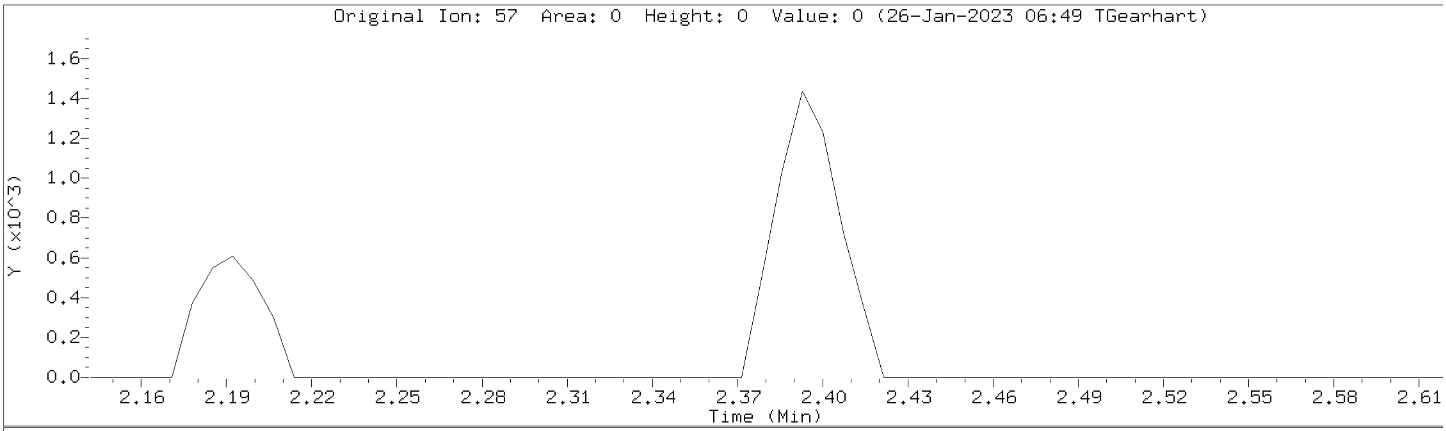
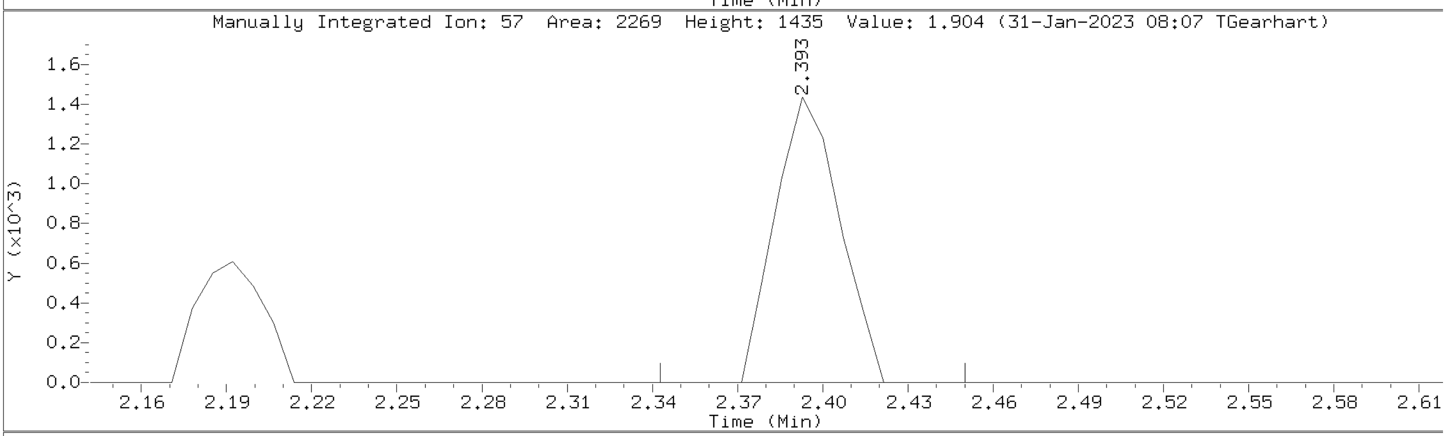
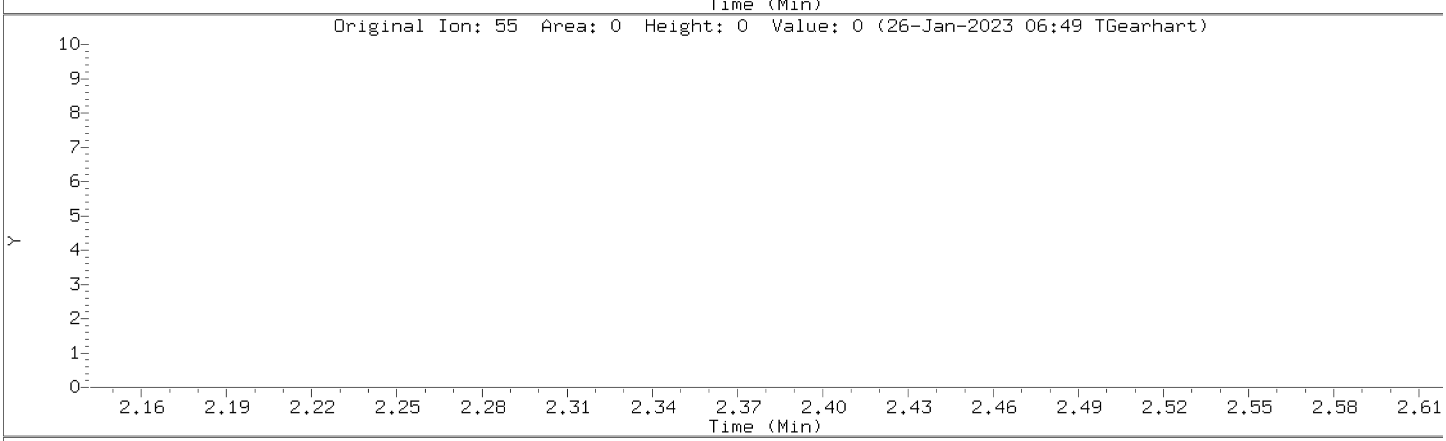
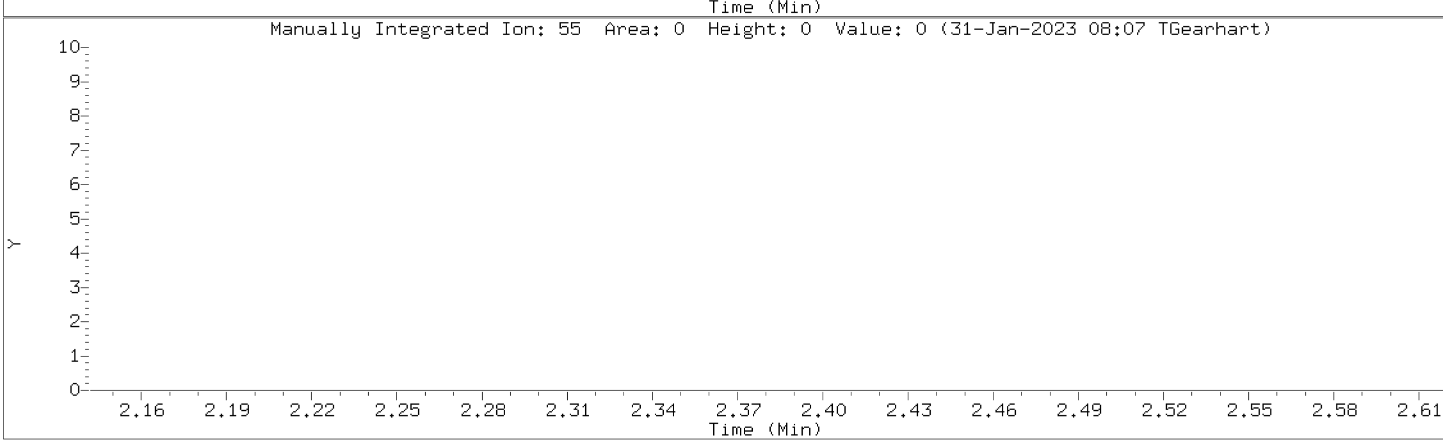
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: n-Hexane   Review Code: NI
CAS Number:









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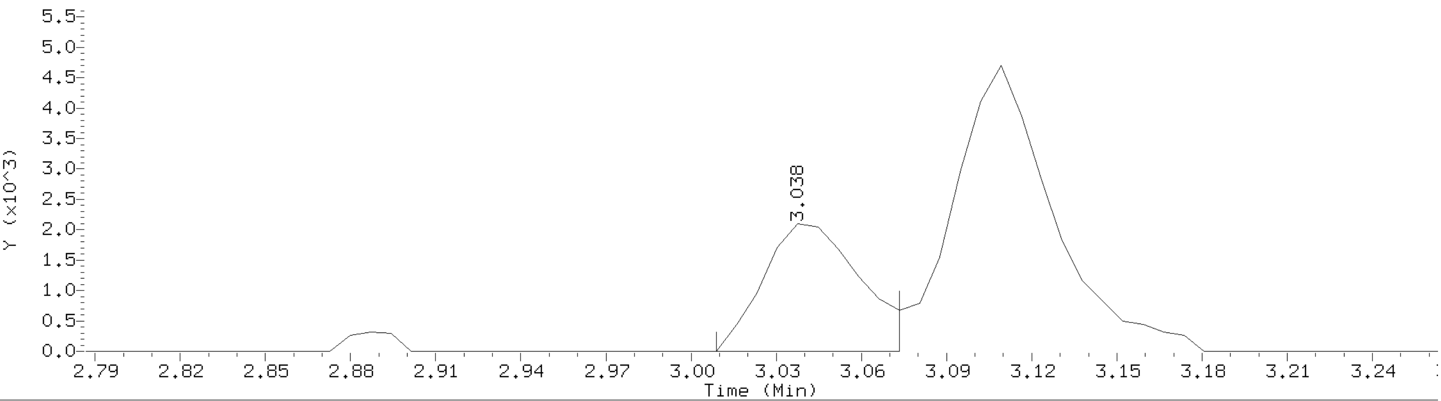
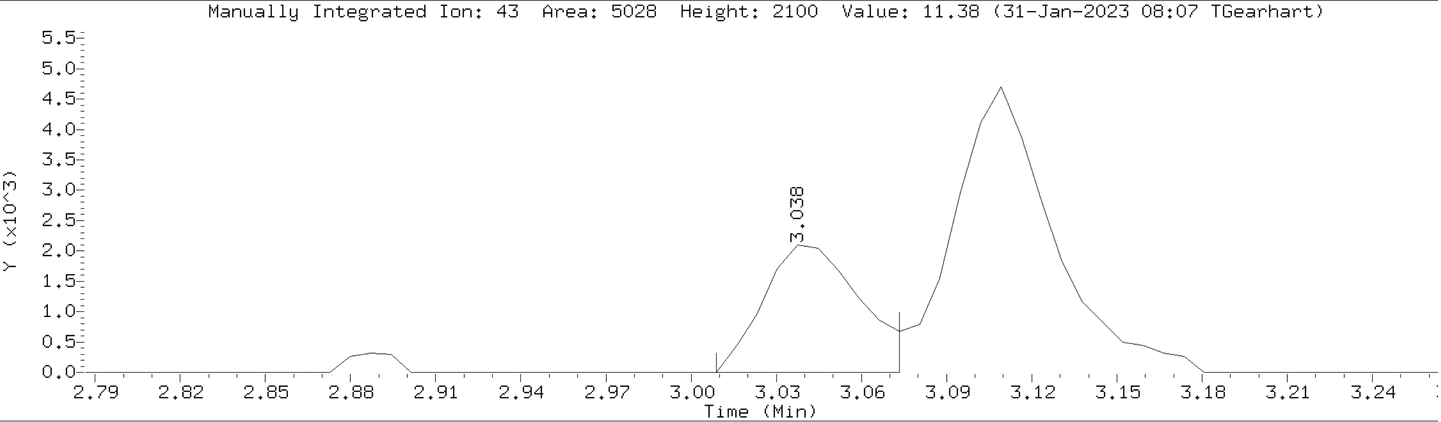
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 2-Butanone   Review Code: WP
CAS Number: 78-93-3

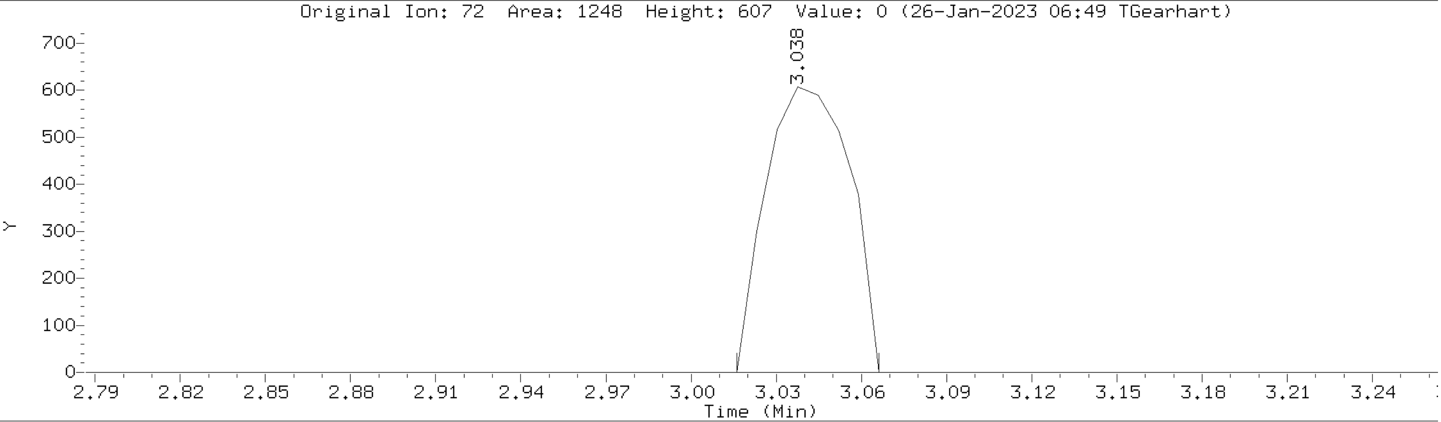
Original Ion: 43 Area: 5028 Height: 2100 Value: 7.531 (26-Jan-2023 06:49 TGearhart)



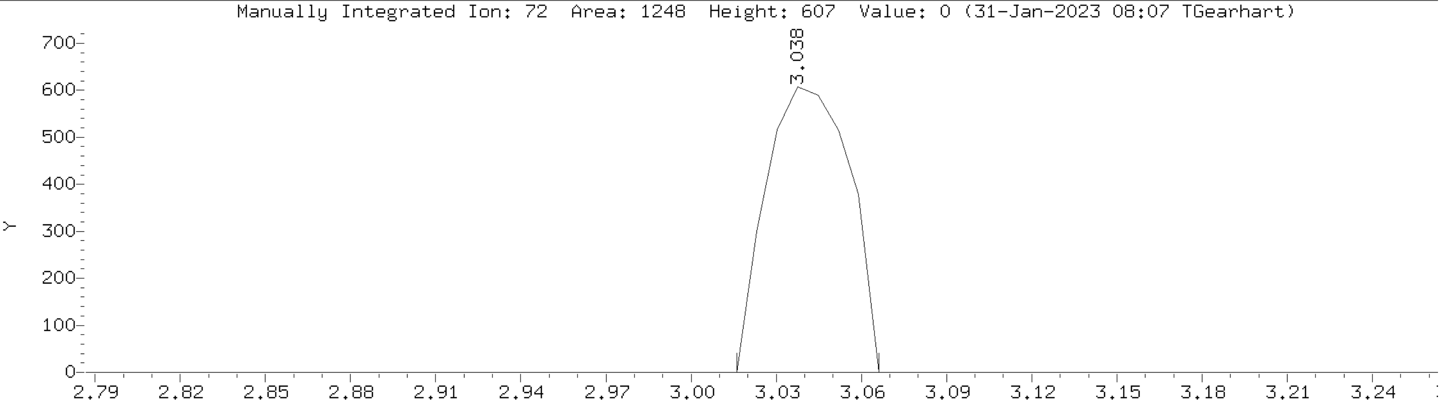
Manually Integrated Ion: 43 Area: 5028 Height: 2100 Value: 11.38 (31-Jan-2023 08:07 TGearhart)



Original Ion: 72 Area: 1248 Height: 607 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 72 Area: 1248 Height: 607 Value: 0 (31-Jan-2023 08:07 TGearhart)



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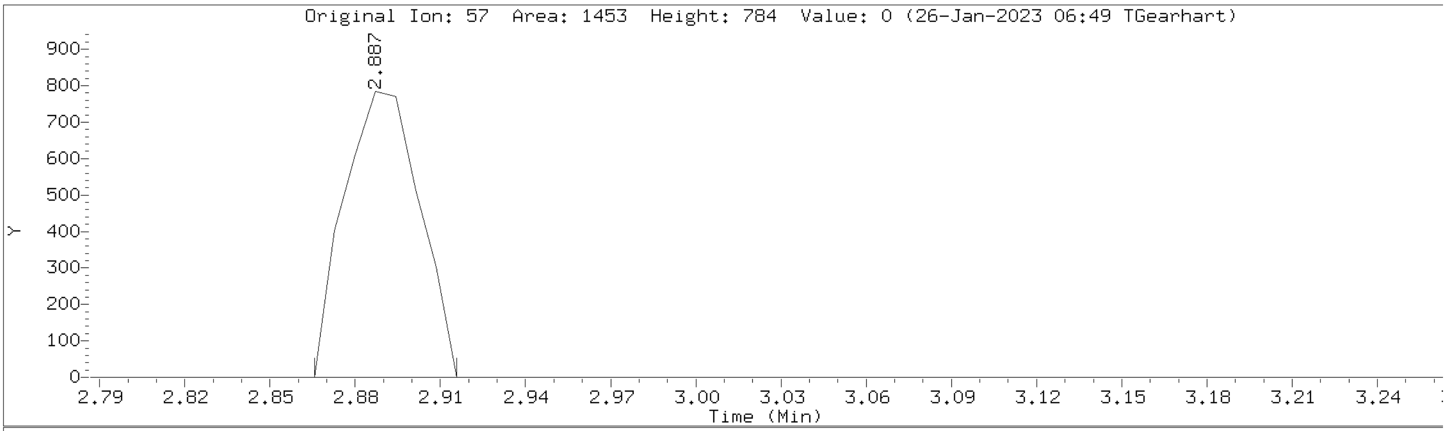
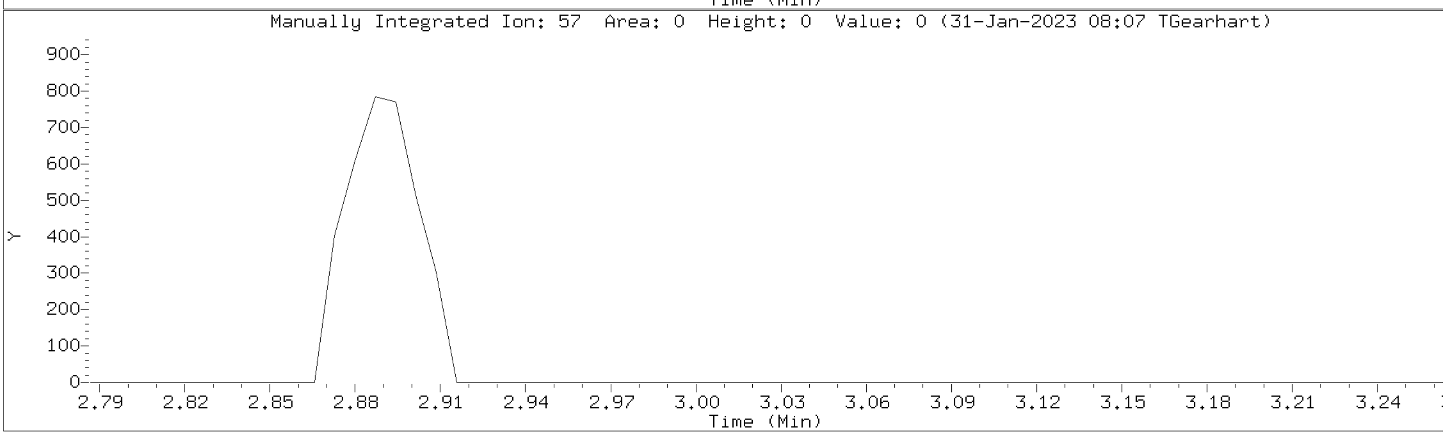
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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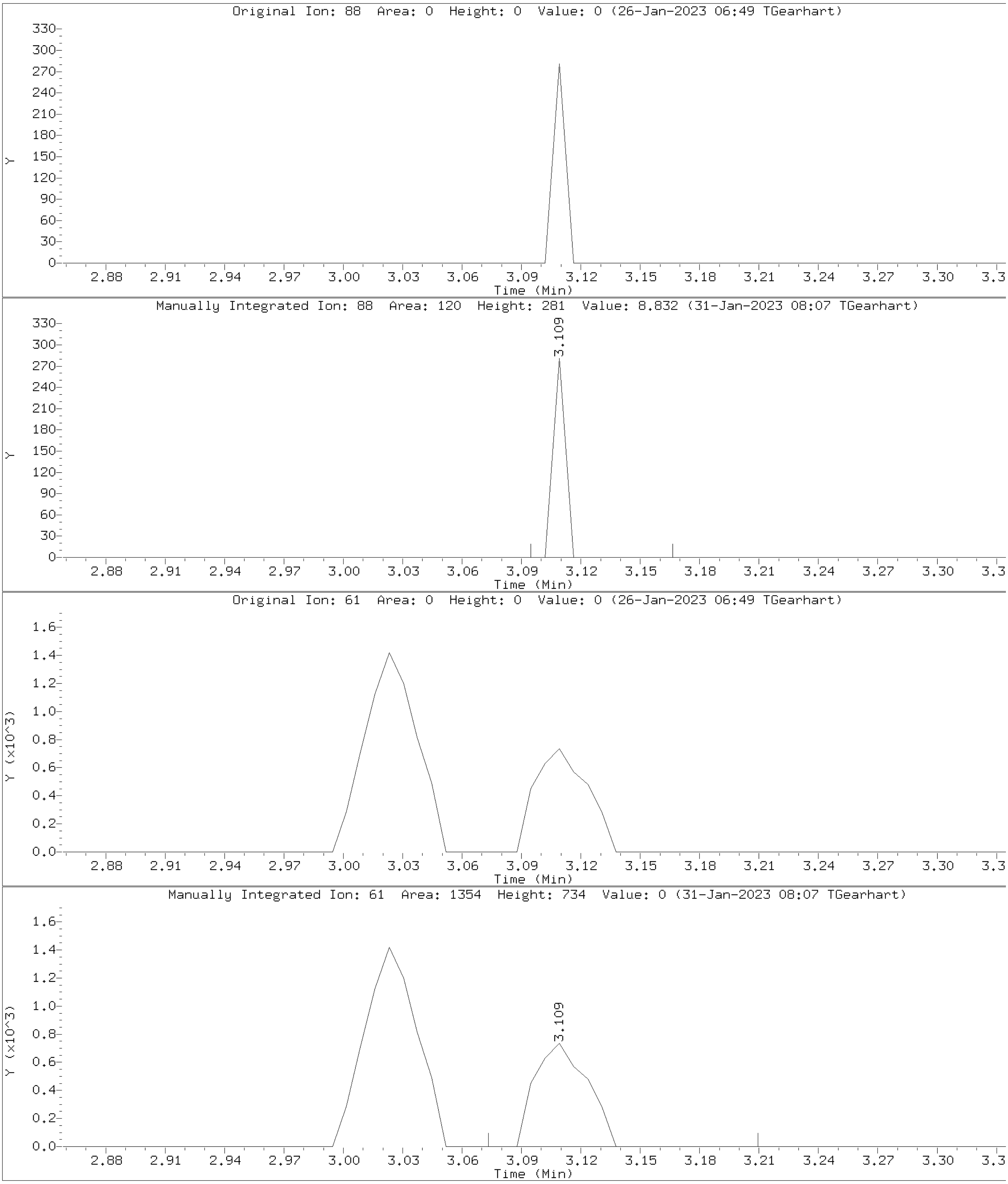
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Acetate   Review Code: NI
CAS Number: 141-78-6



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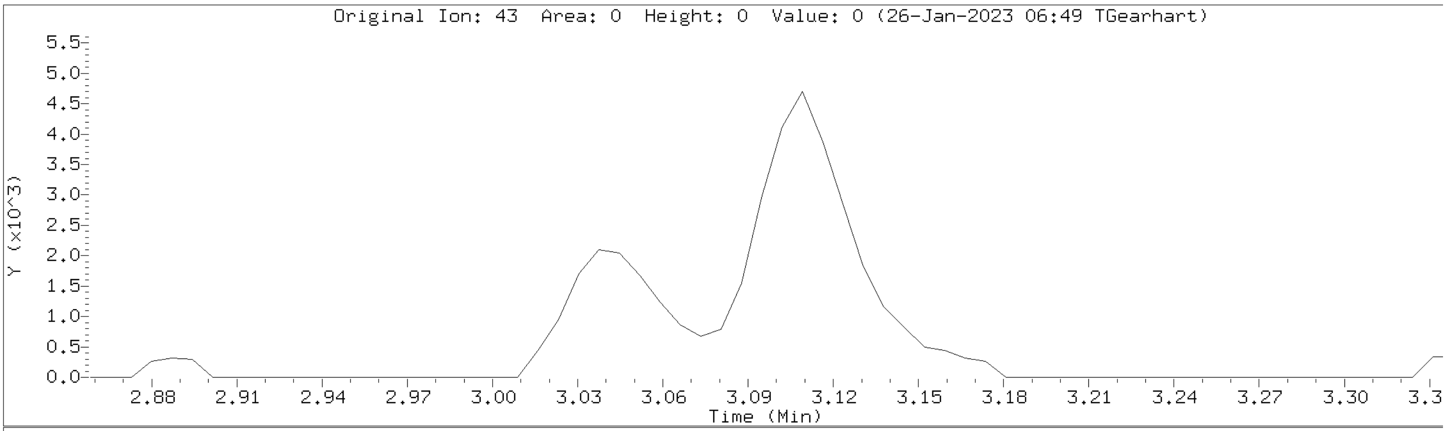
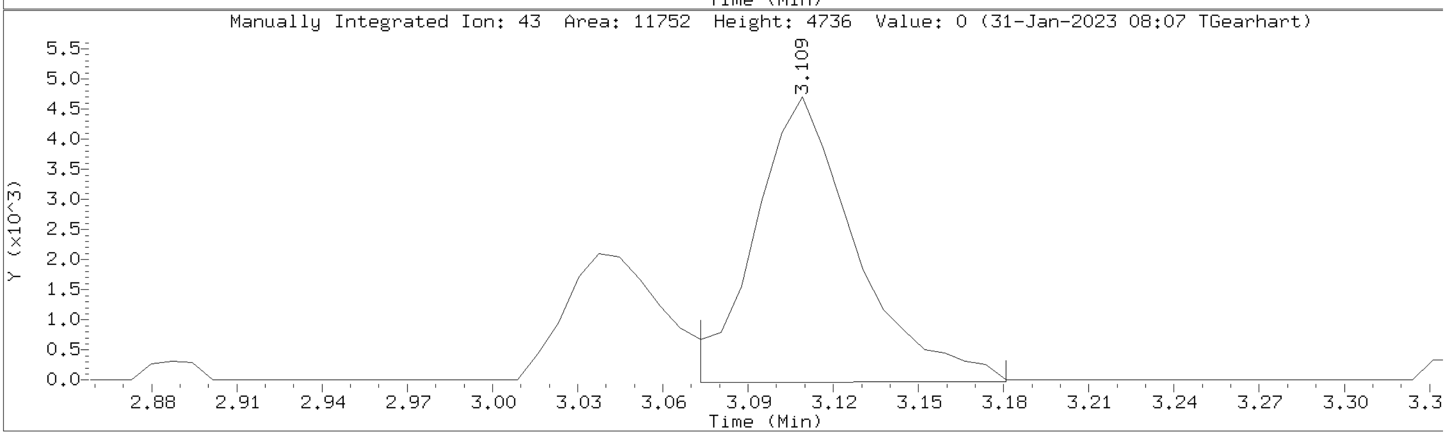
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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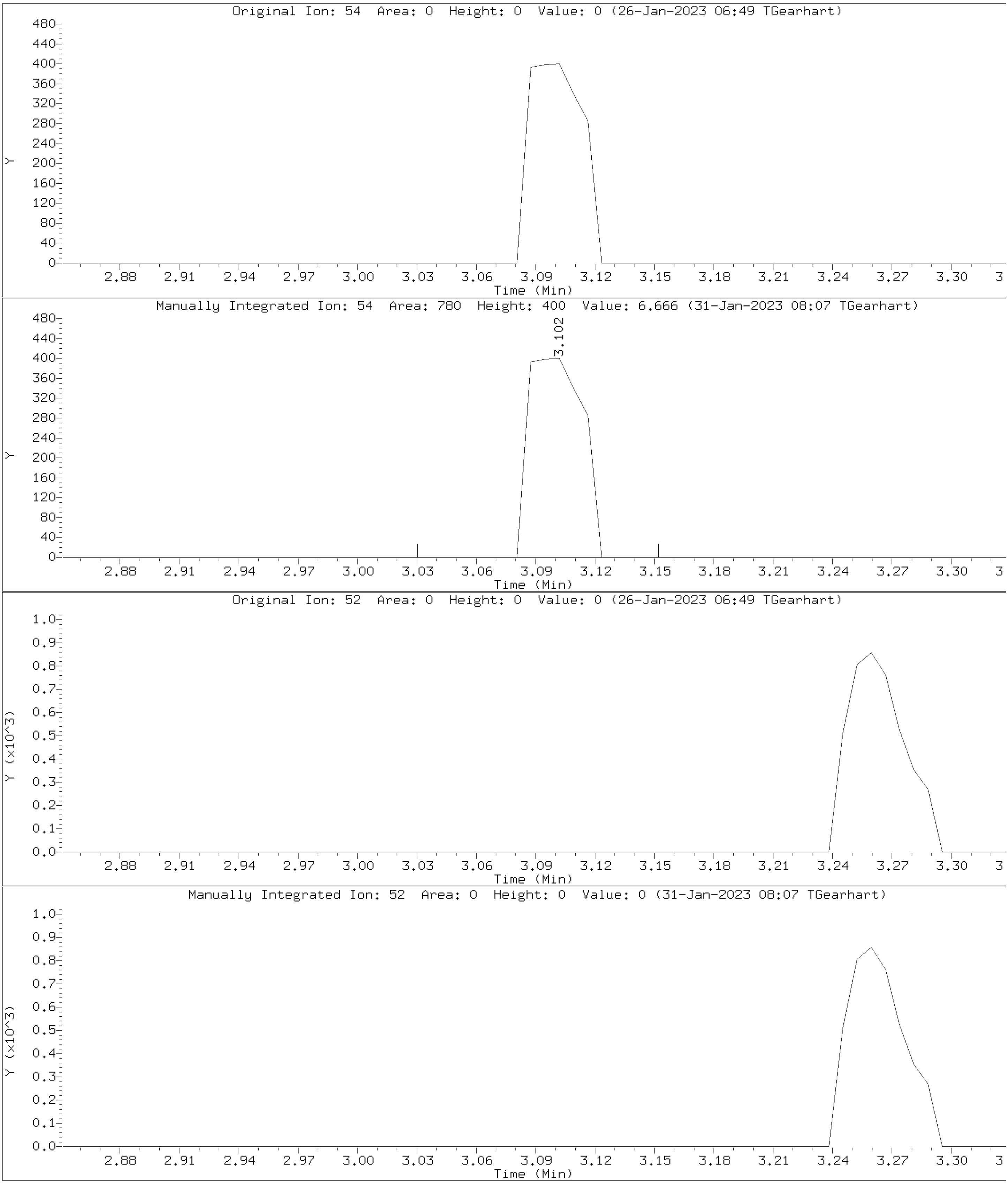
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Propionitrile   Review Code: NI
CAS Number: 107-12-0



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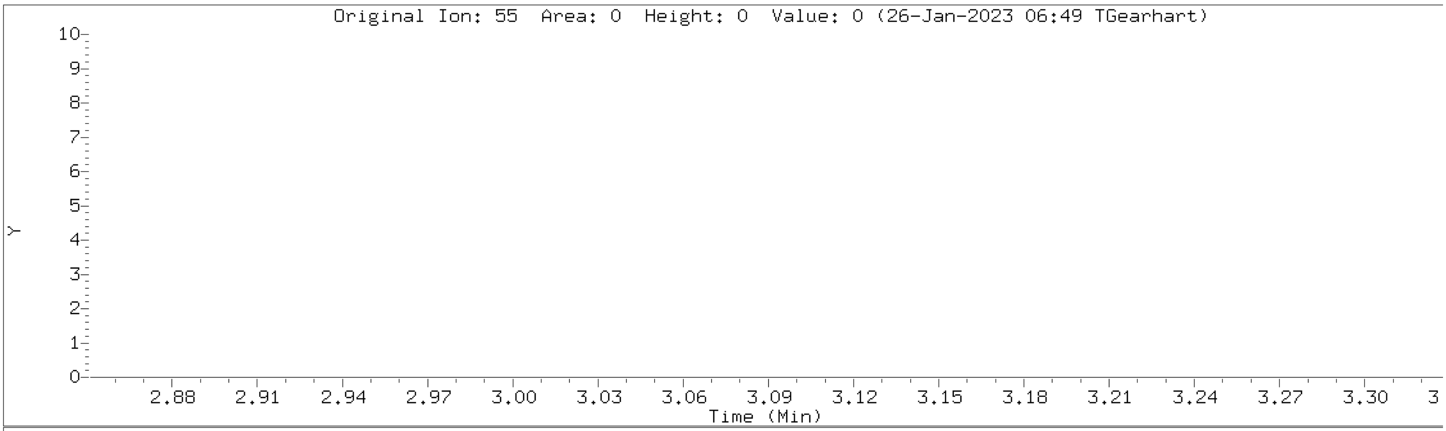
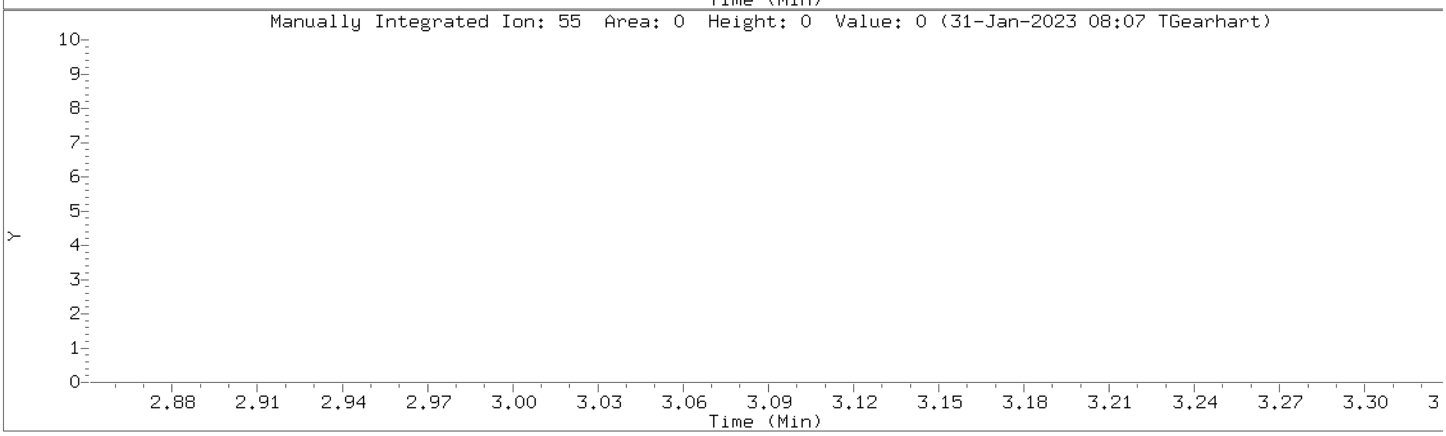
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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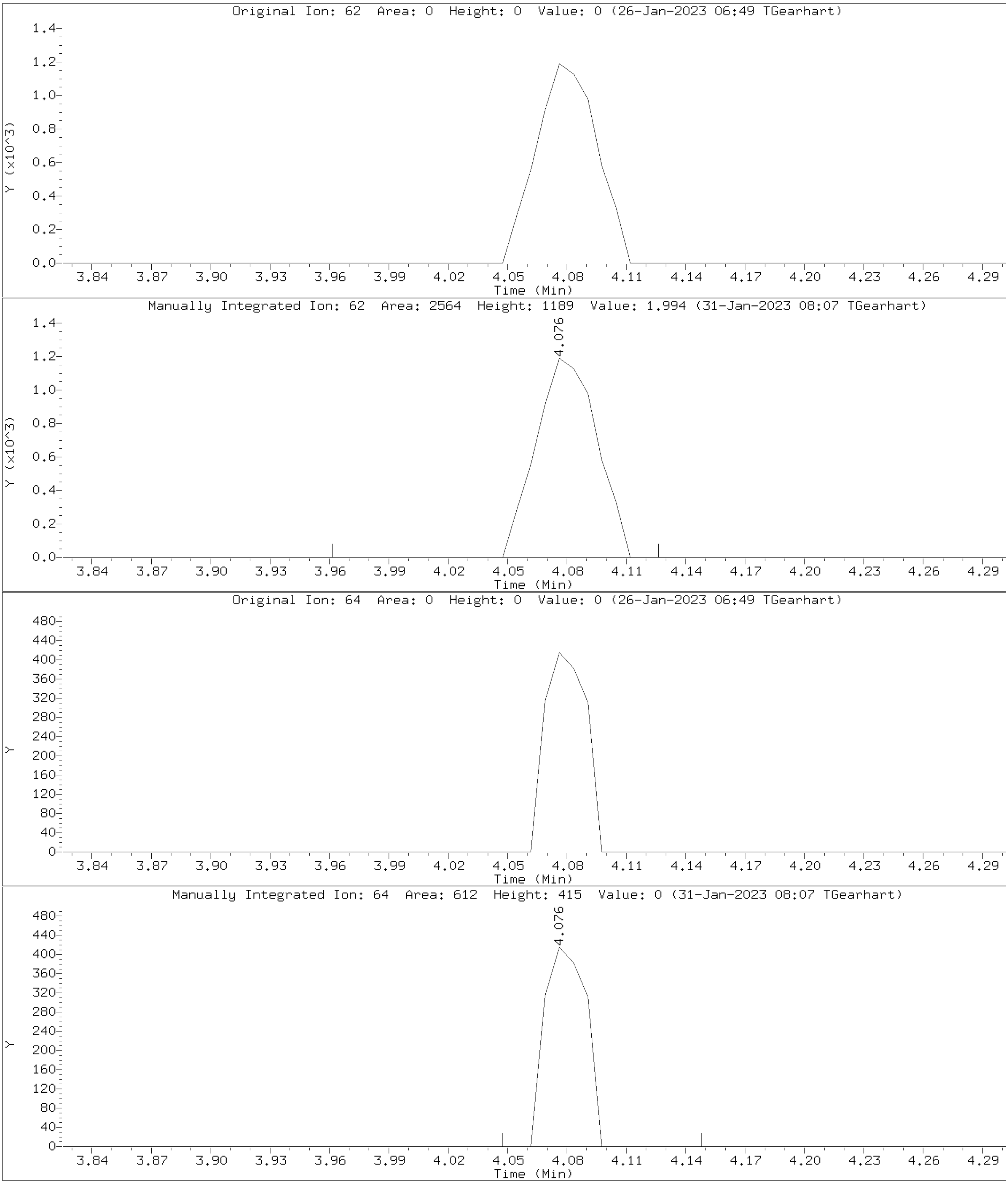
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloroethane   Review Code: NI
CAS Number: 107-06-2



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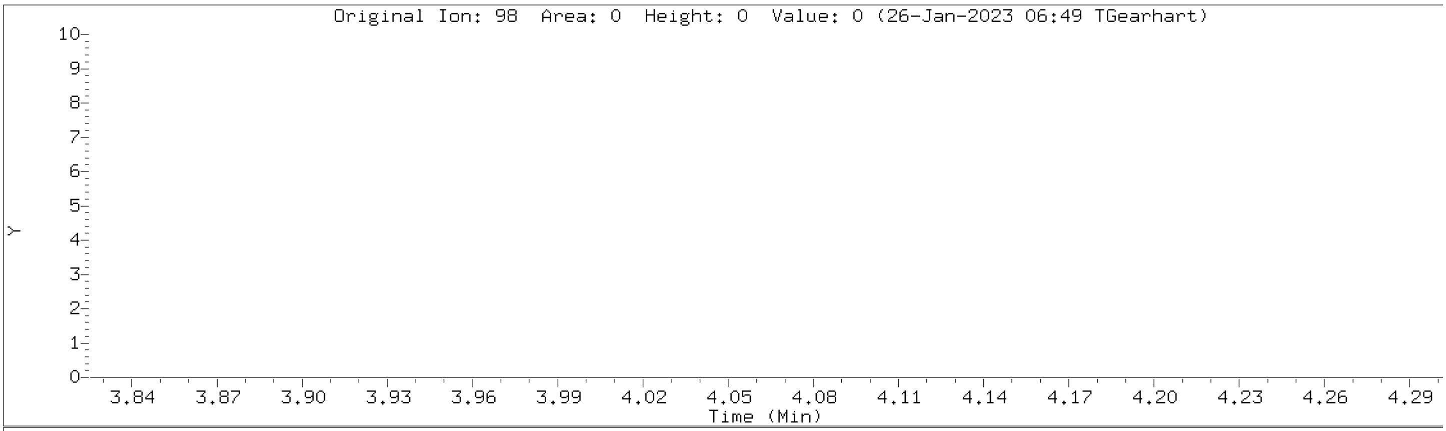
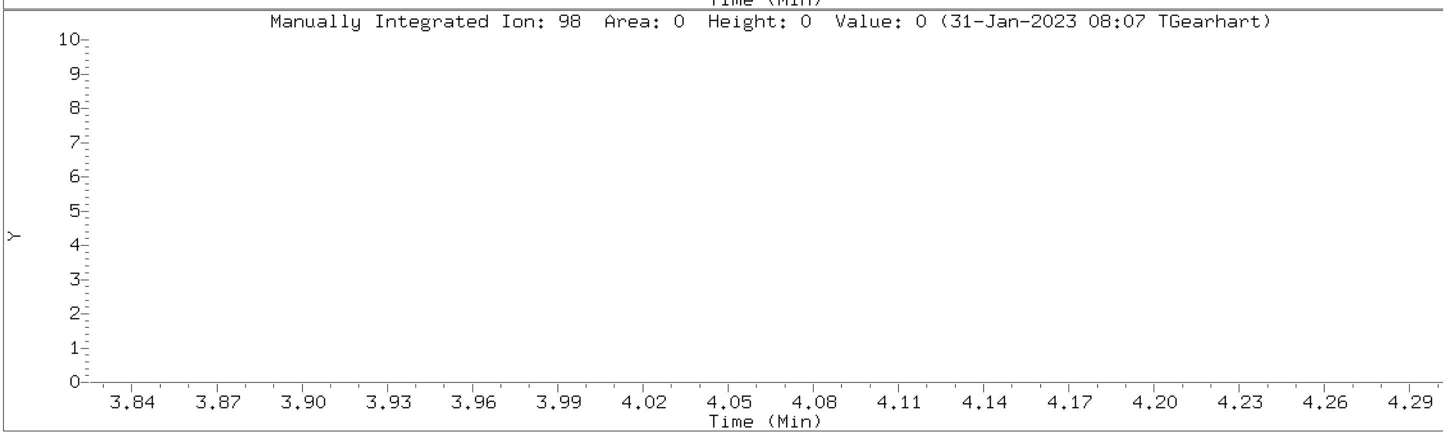
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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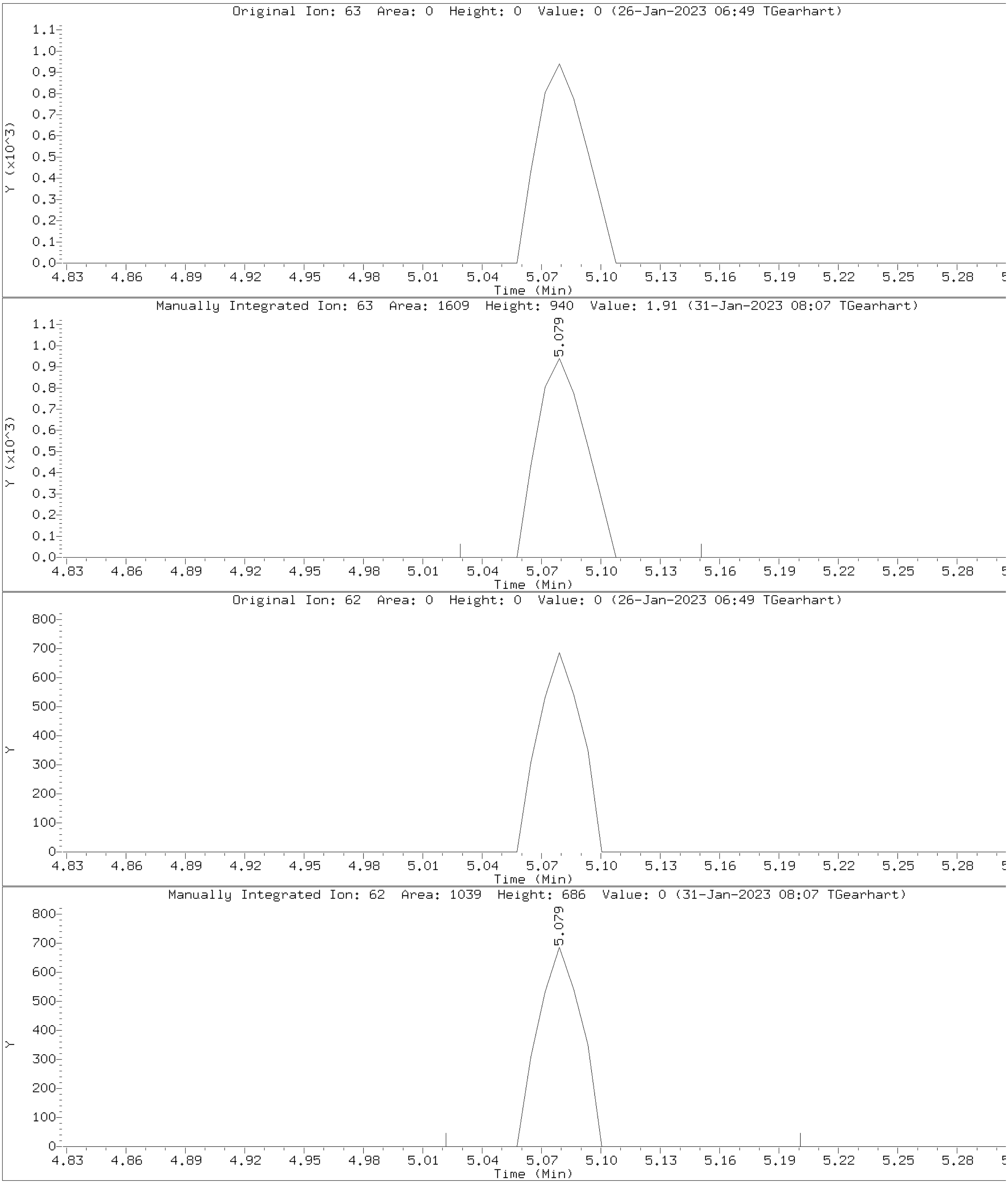
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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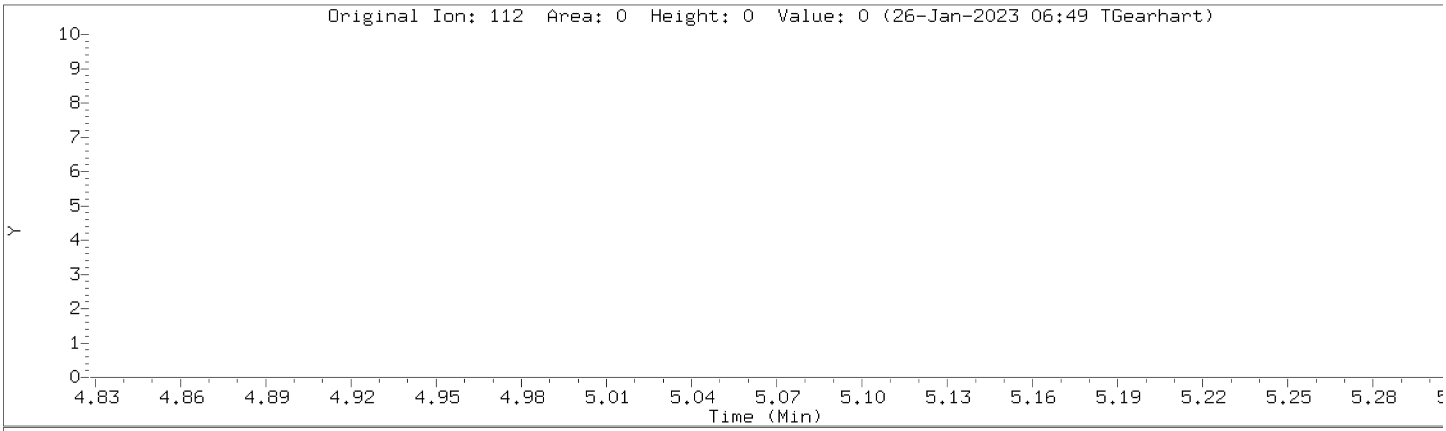
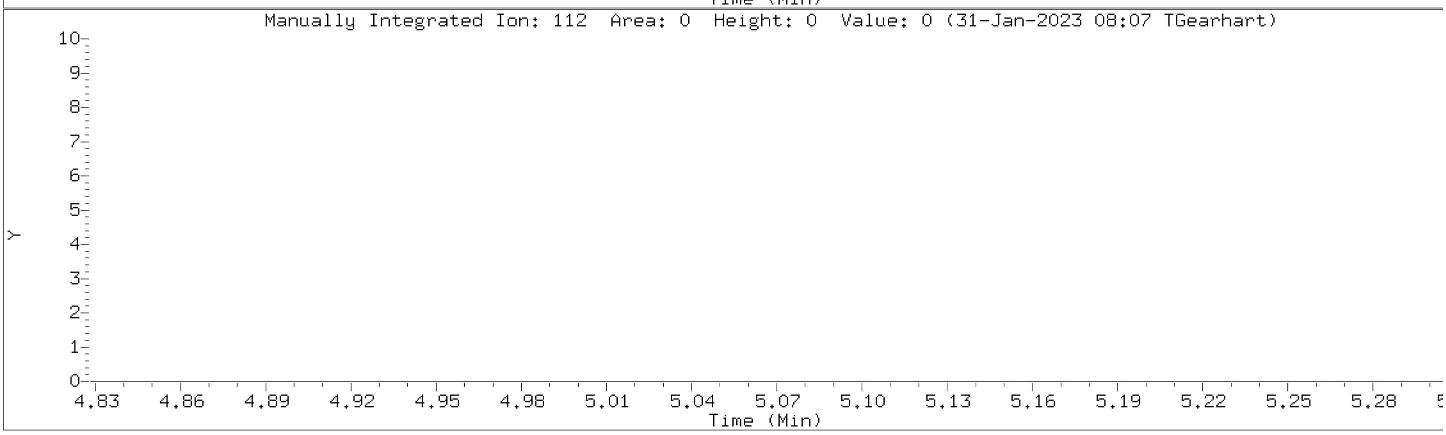
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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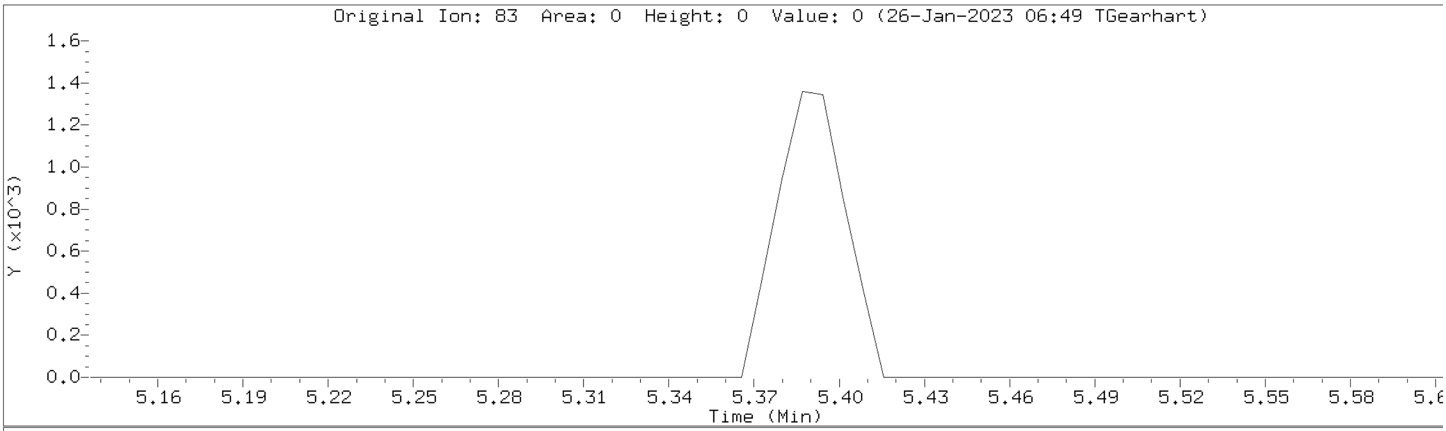
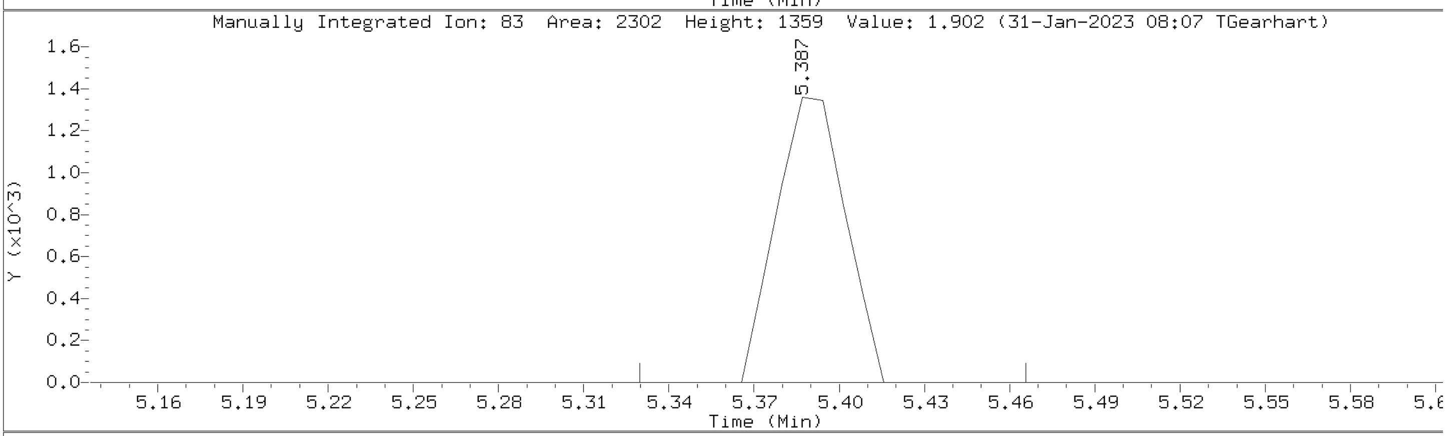
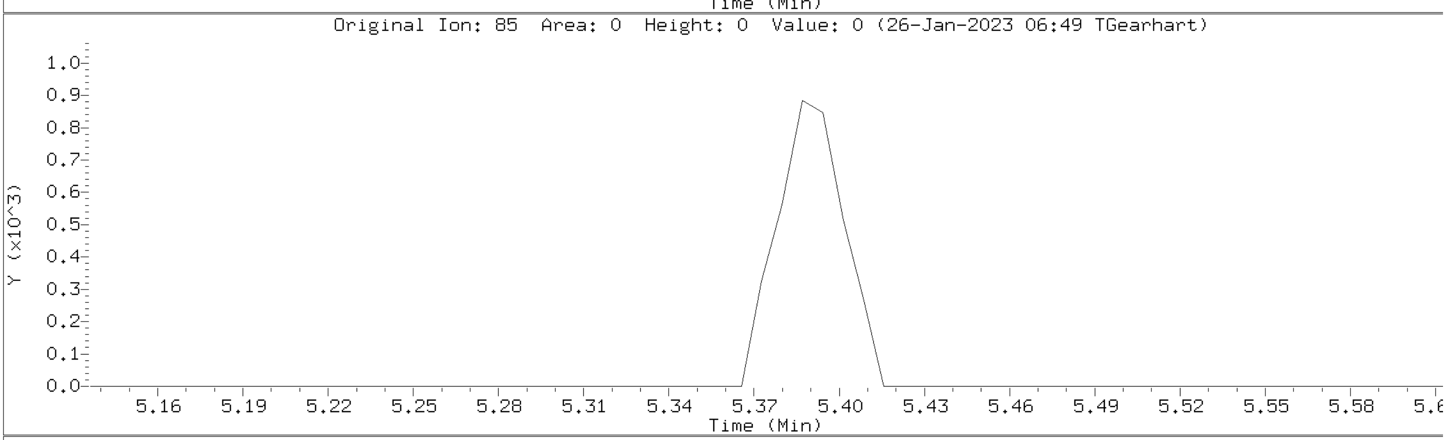
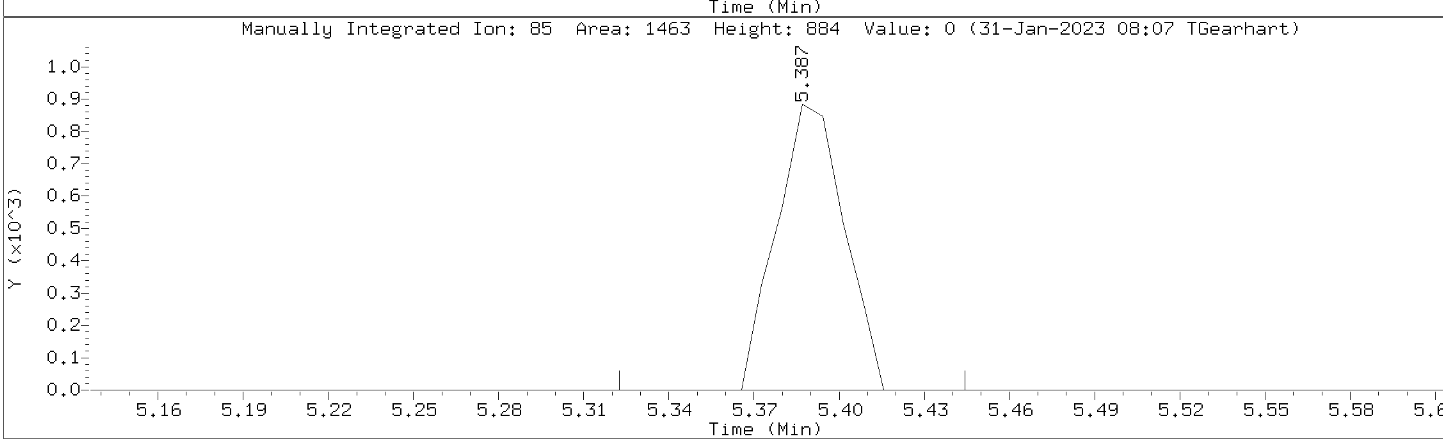
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4









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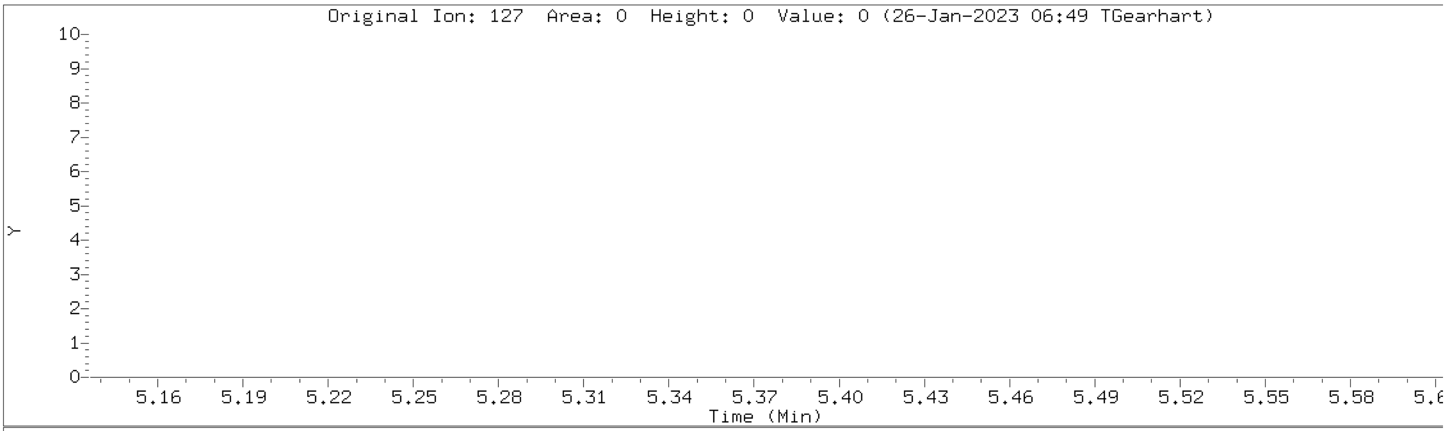
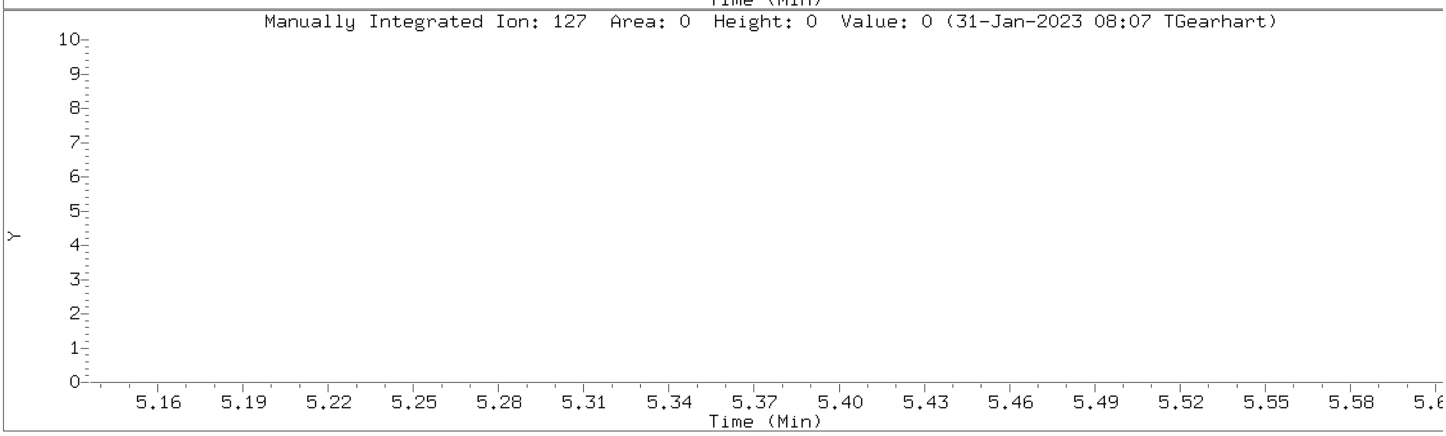
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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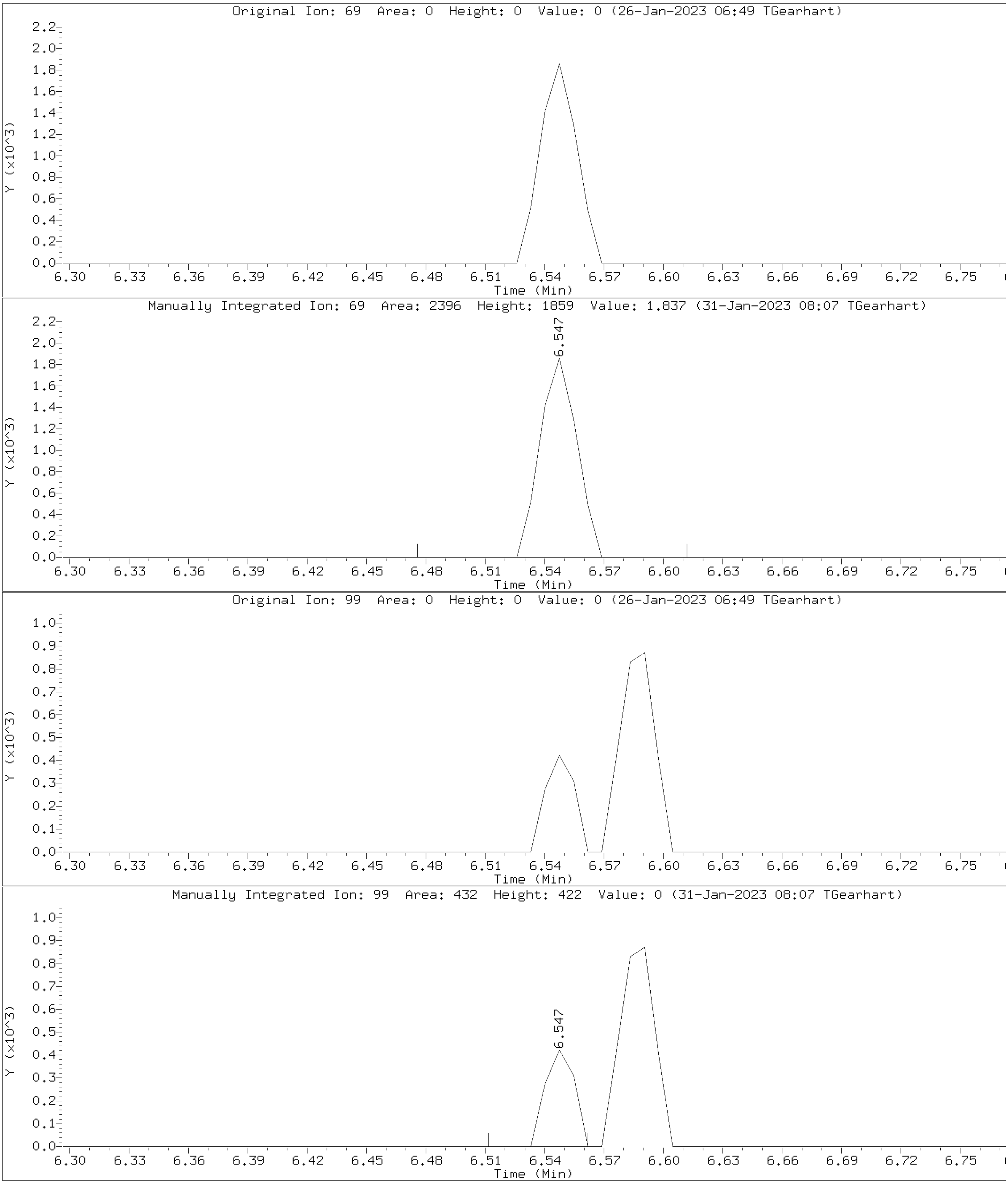
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



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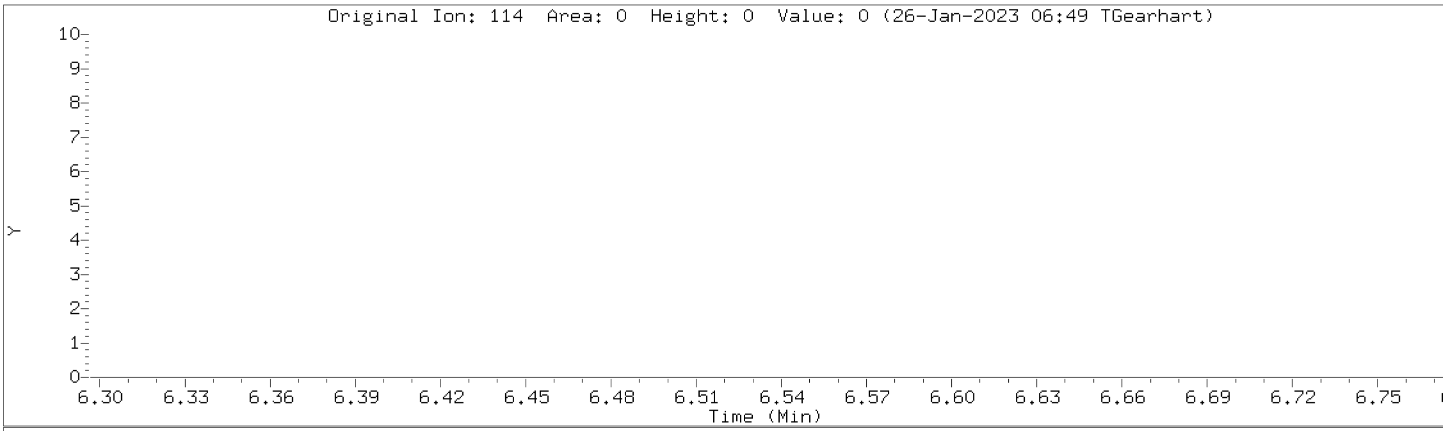
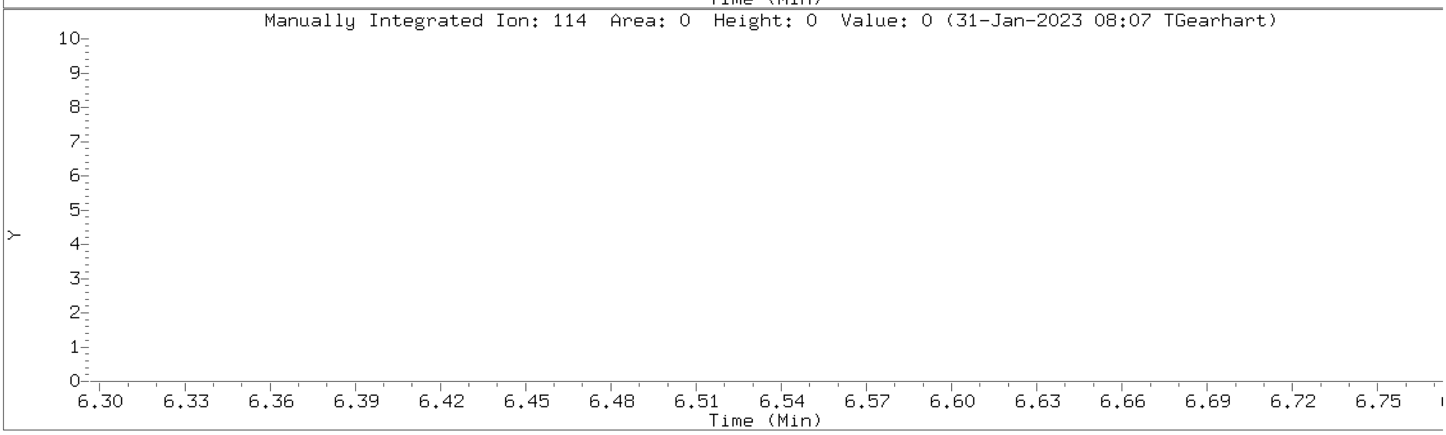
Lab Sample ID: 8260-CAL3





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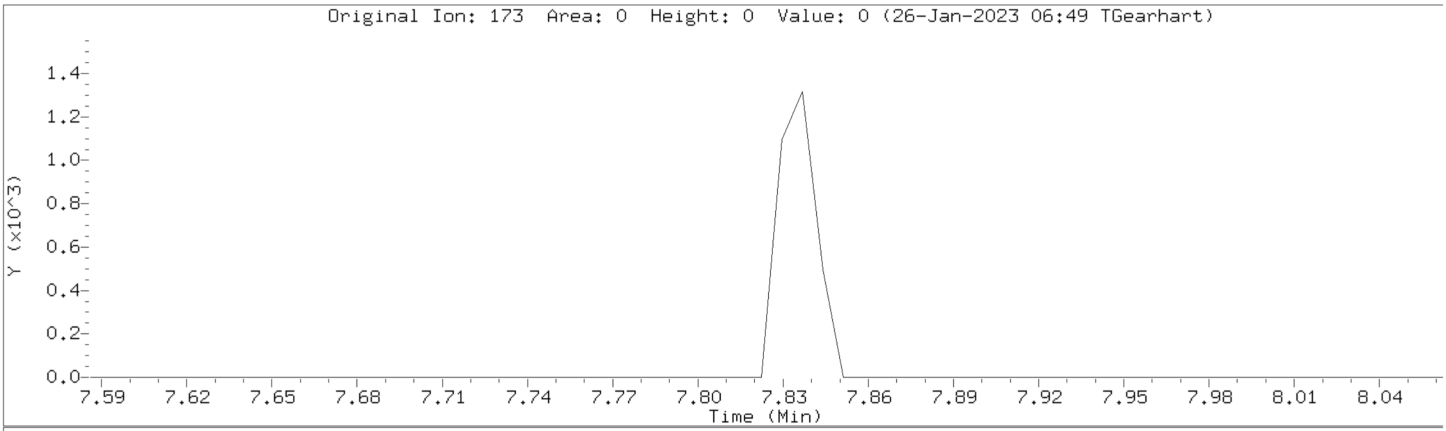
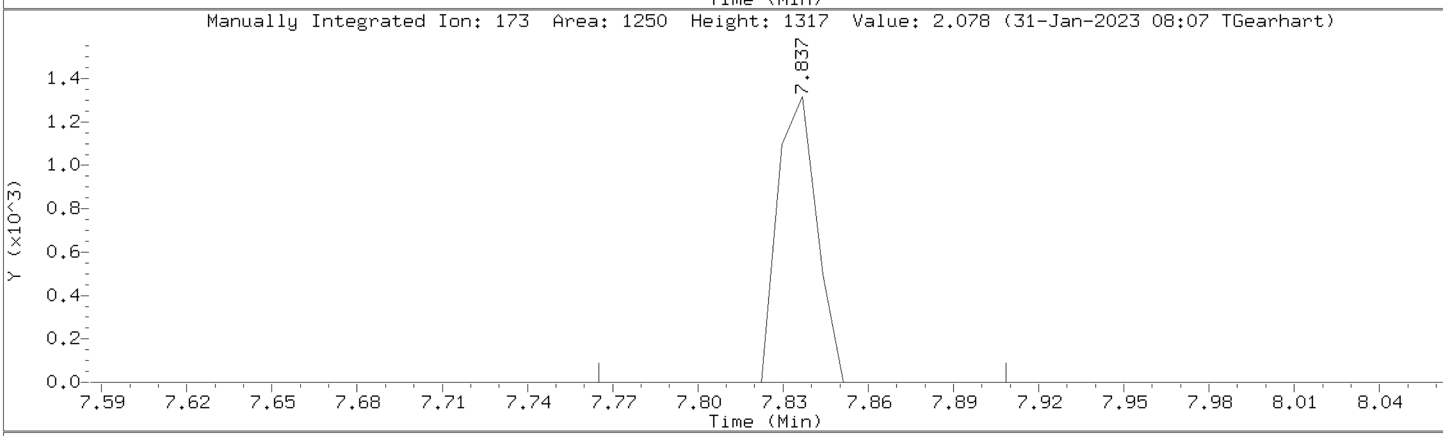
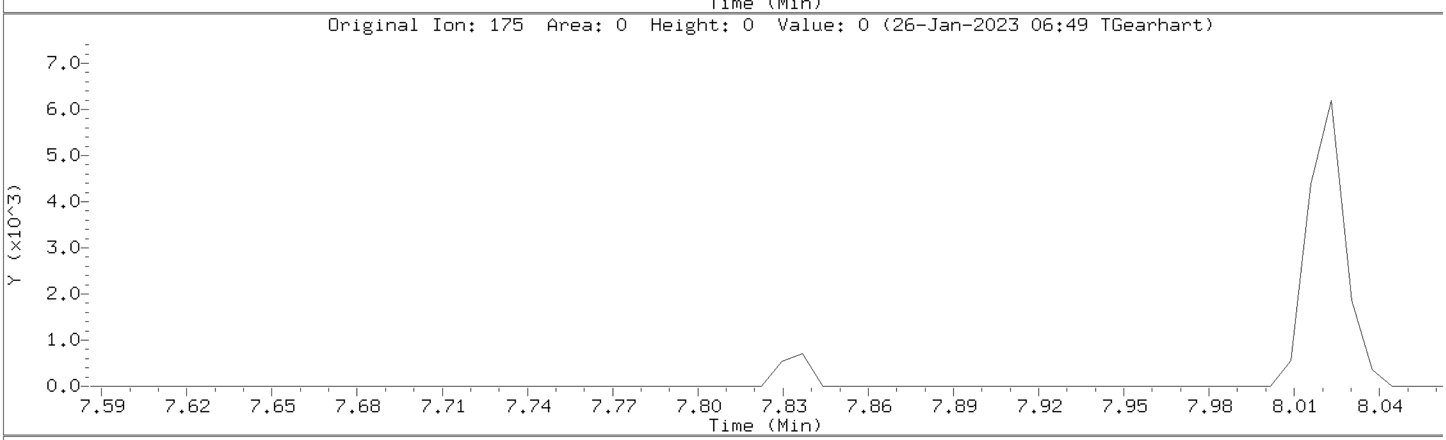
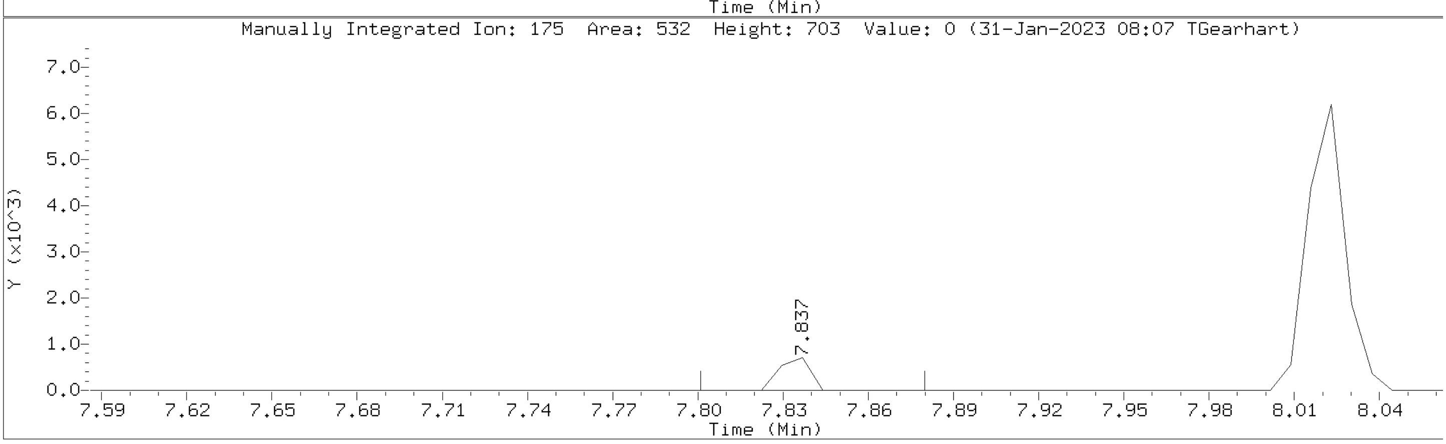
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2









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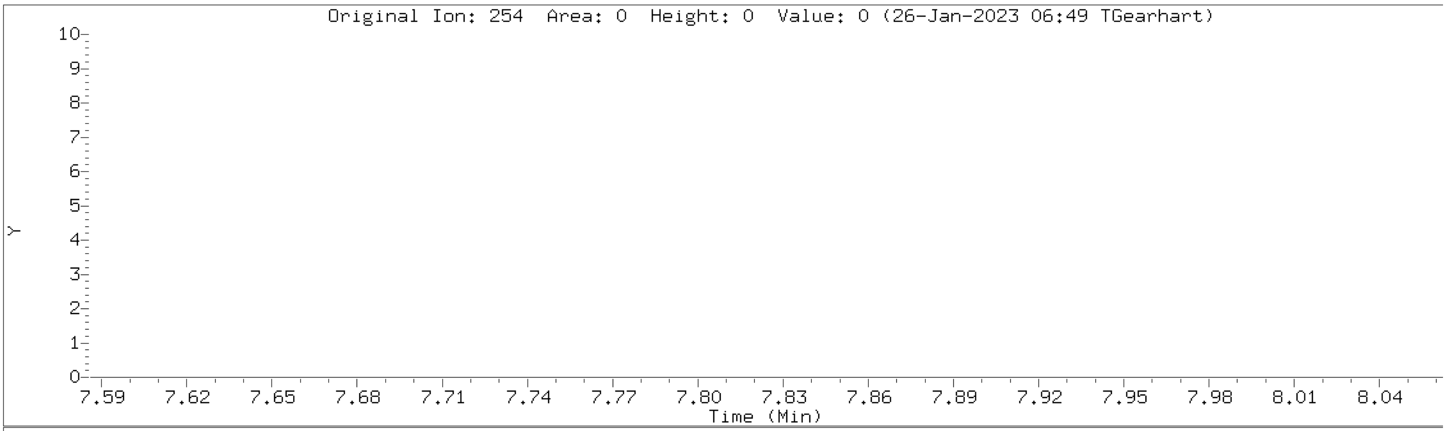
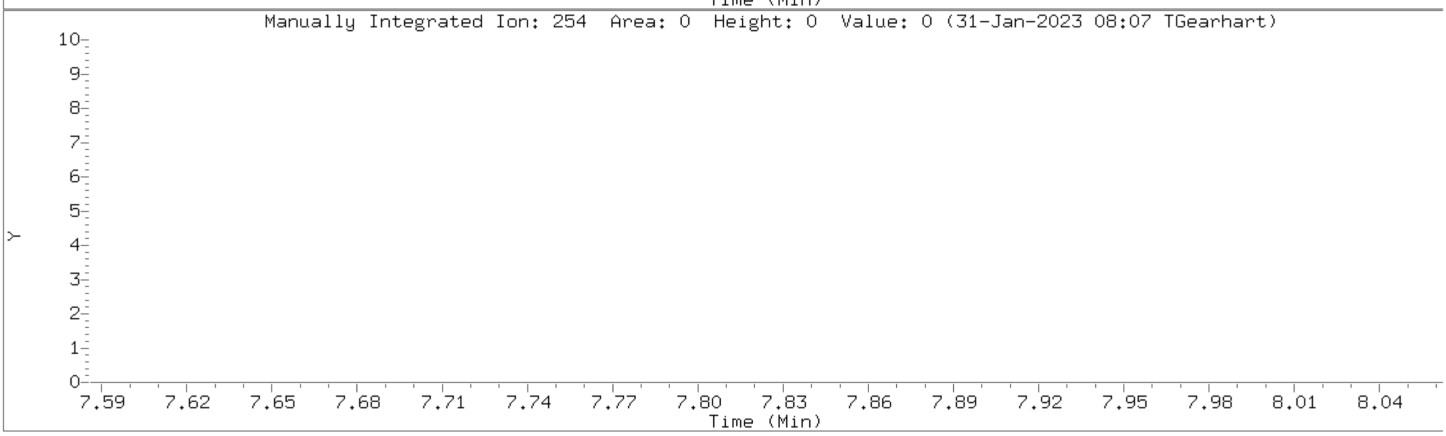
Lab Sample ID: 8260-CAL3





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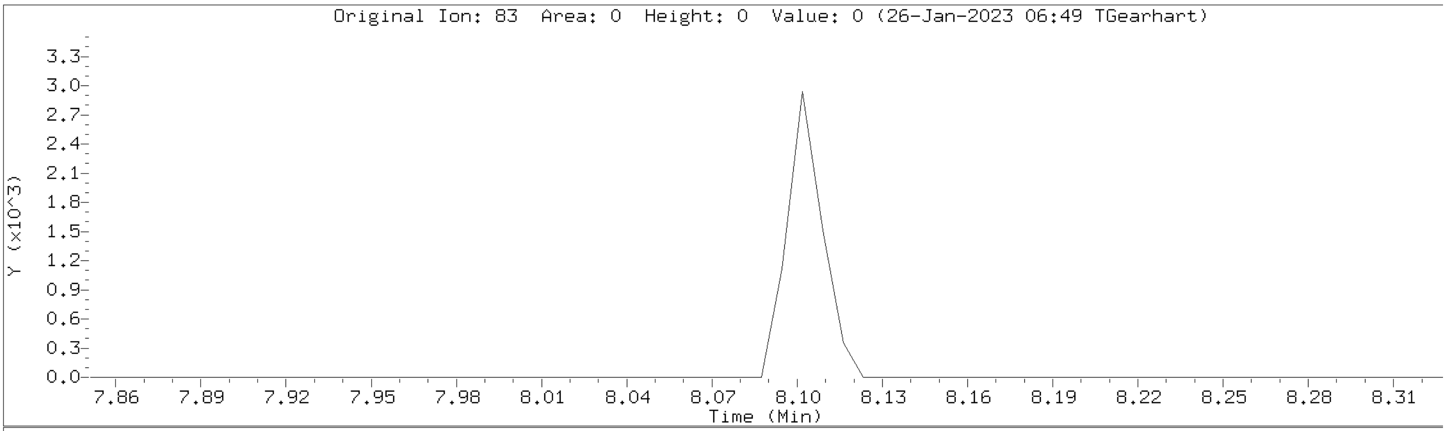
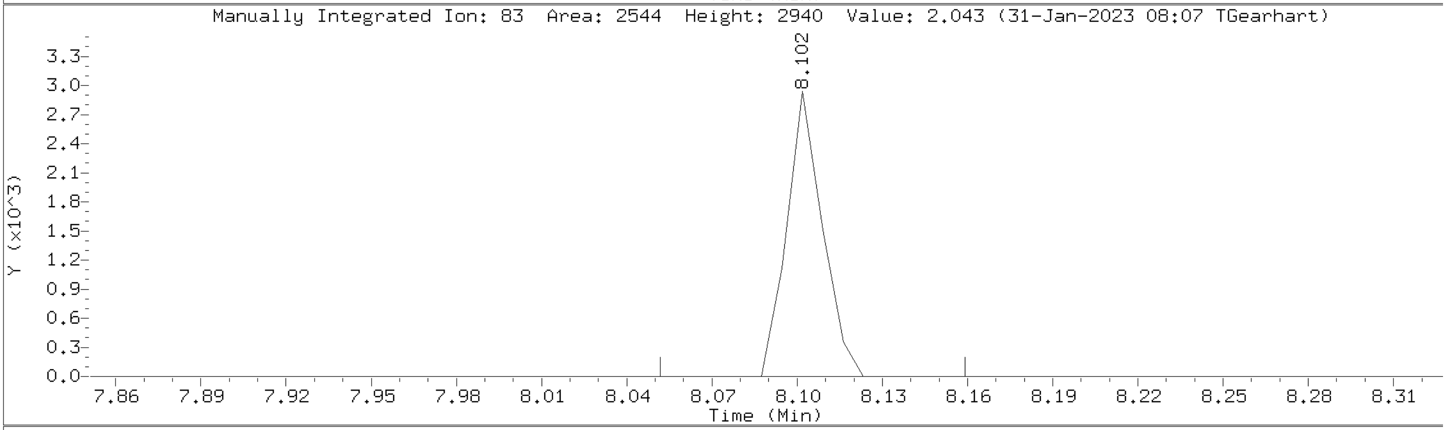
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5

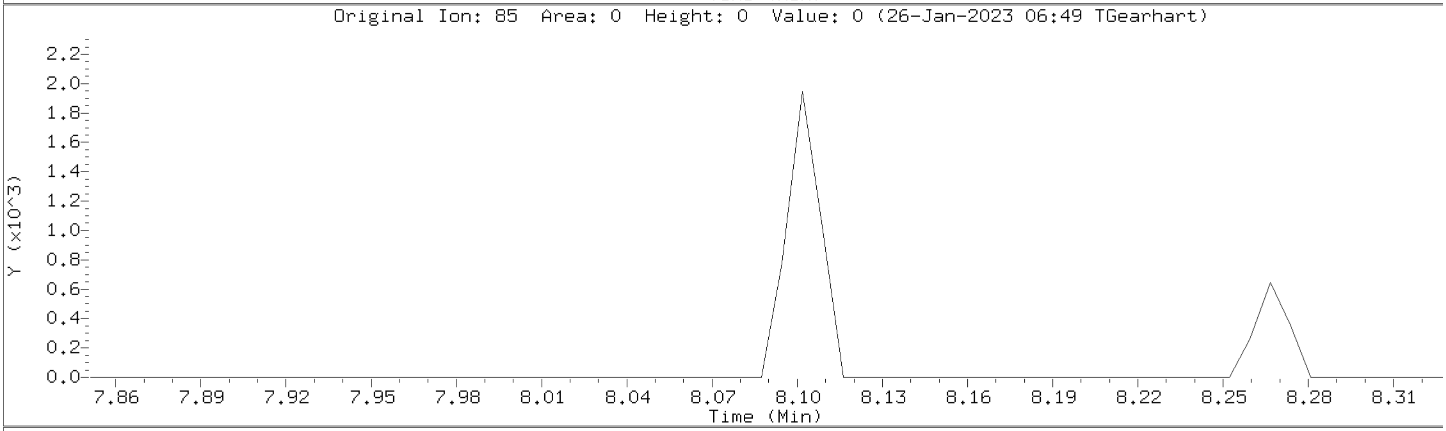
Original Ion: 83 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



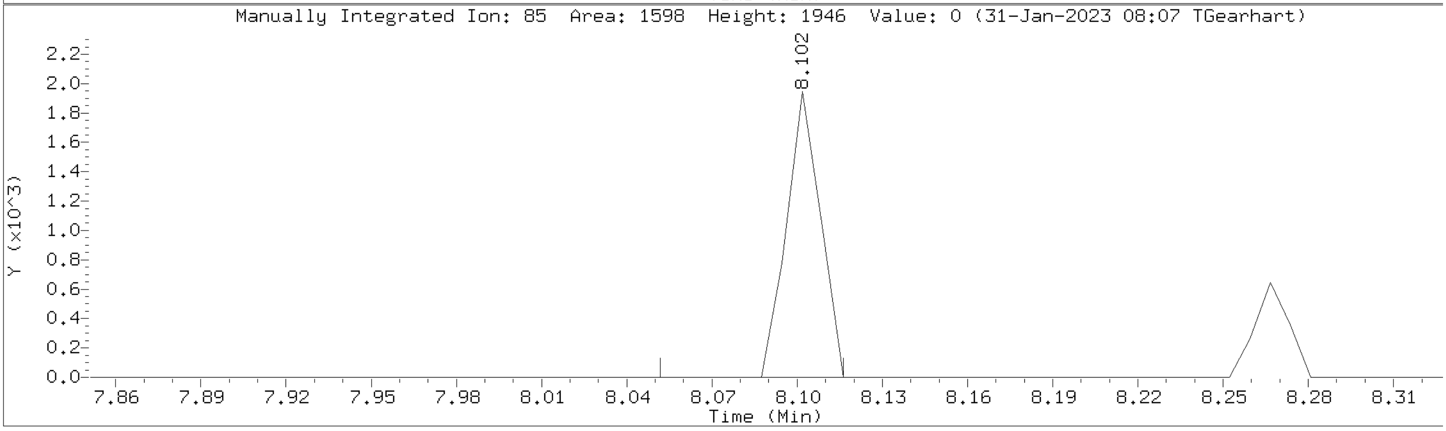
Manually Integrated Ion: 83 Area: 2544 Height: 2940 Value: 2.043 (31-Jan-2023 08:07 TGearhart)



Original Ion: 85 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 85 Area: 1598 Height: 1946 Value: 0 (31-Jan-2023 08:07 TGearhart)



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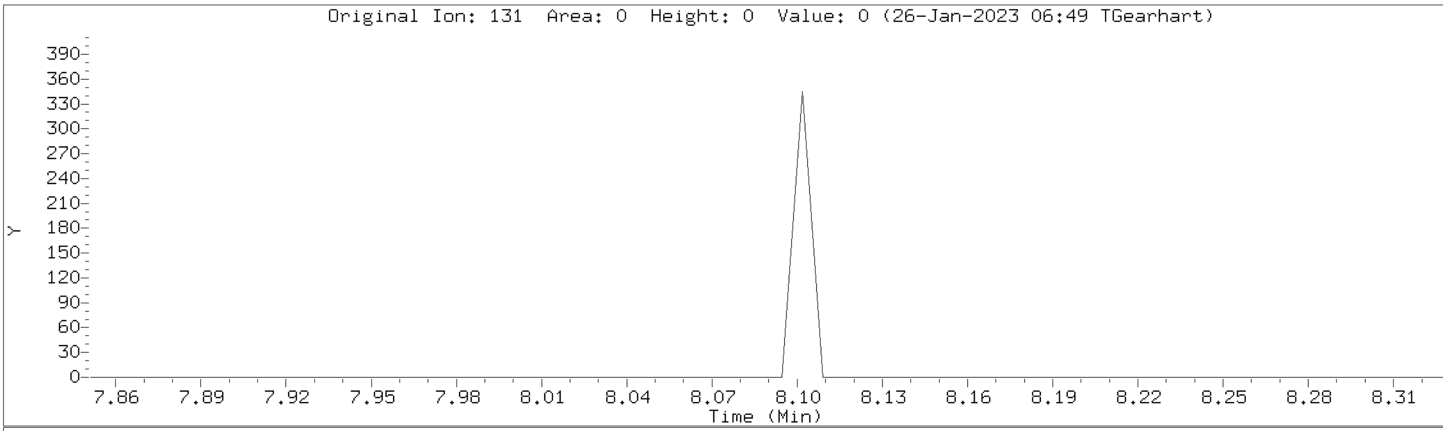
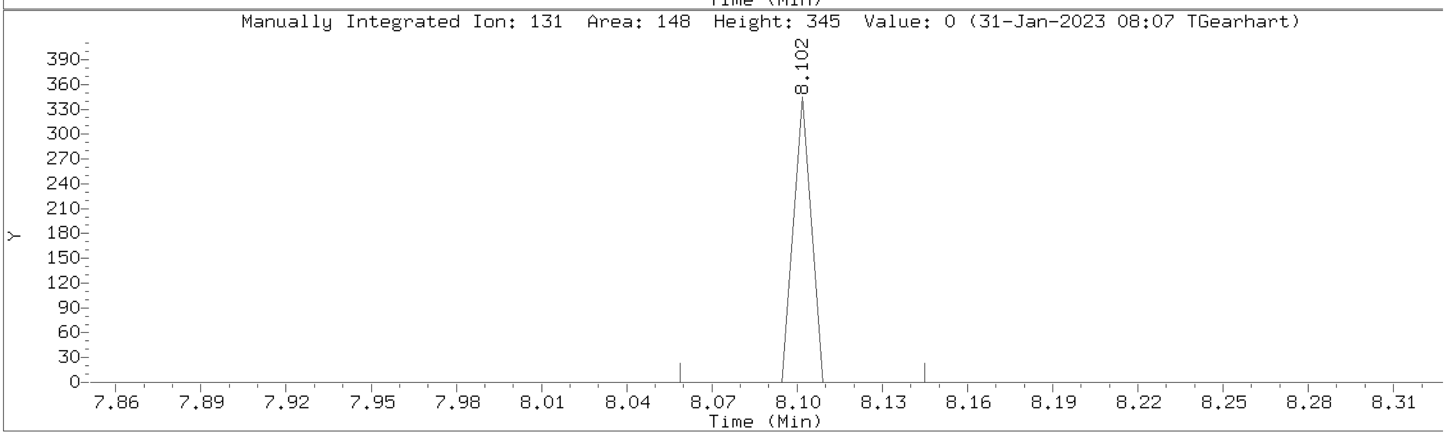
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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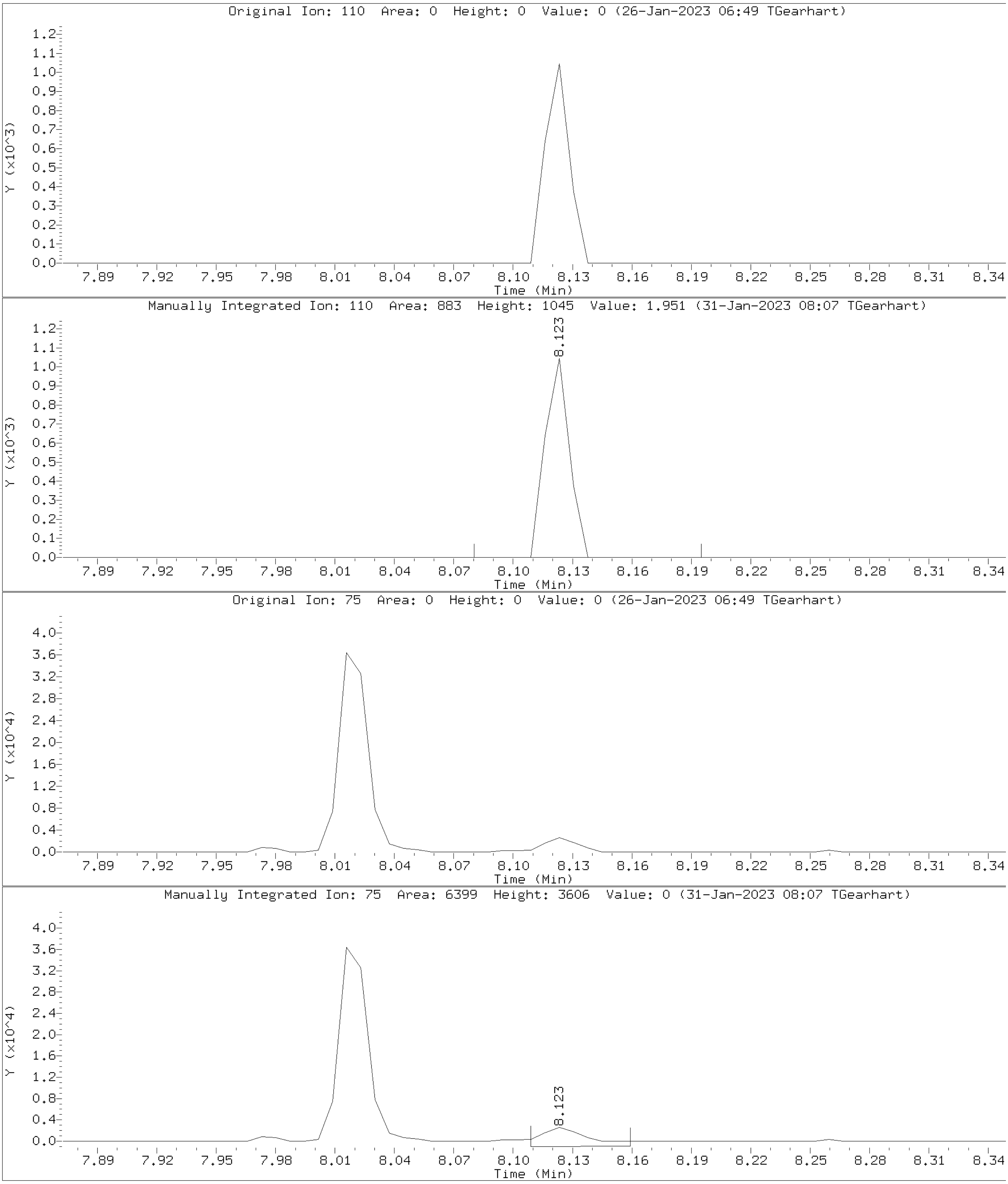
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2,3-Trichloropropane   Review Code: NI
CAS Number: 96-18-4



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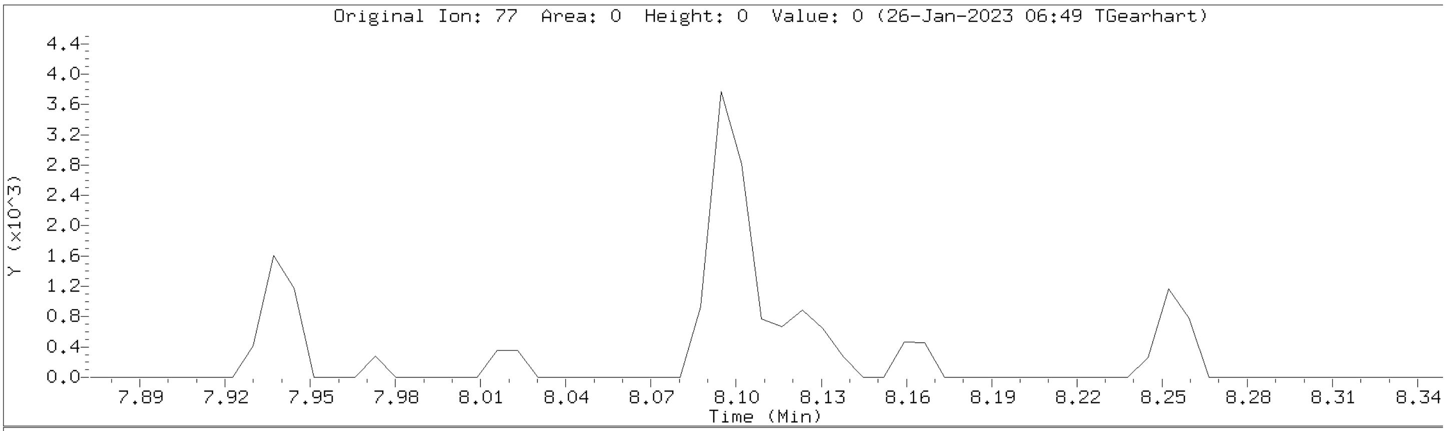
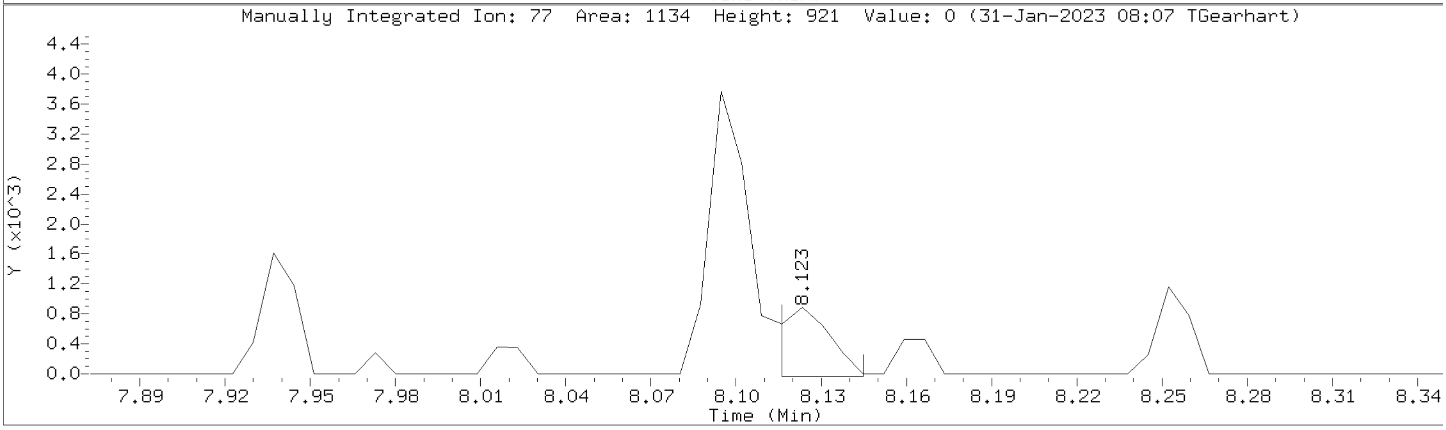
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Original Ion: 77 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 77 Area: 1134 Height: 921 Value: 0 (31-Jan-2023 08:07 TGearhart)



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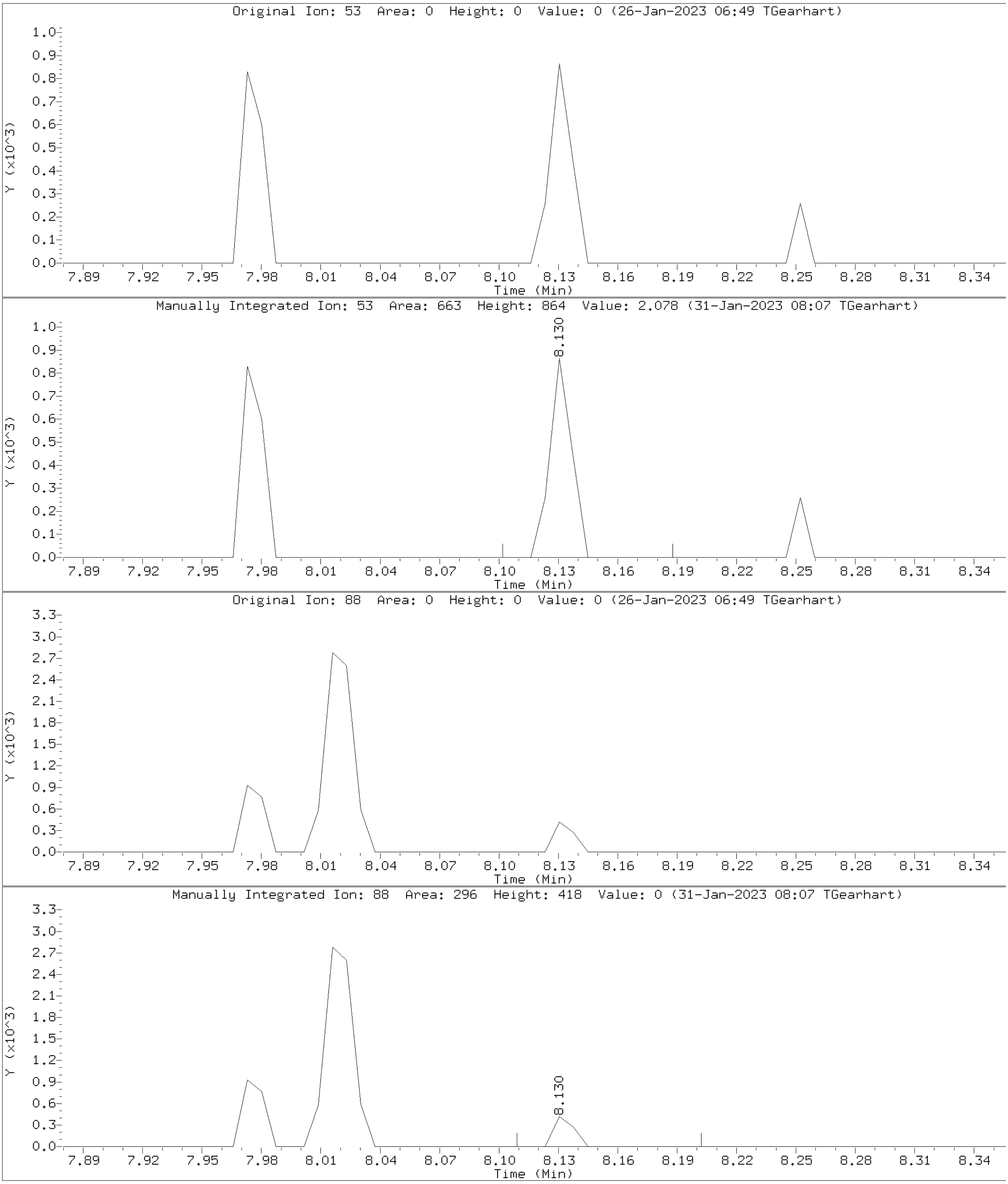
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: trans-1,4-Dichloro-2-butene   Review Code: NI
CAS Number:



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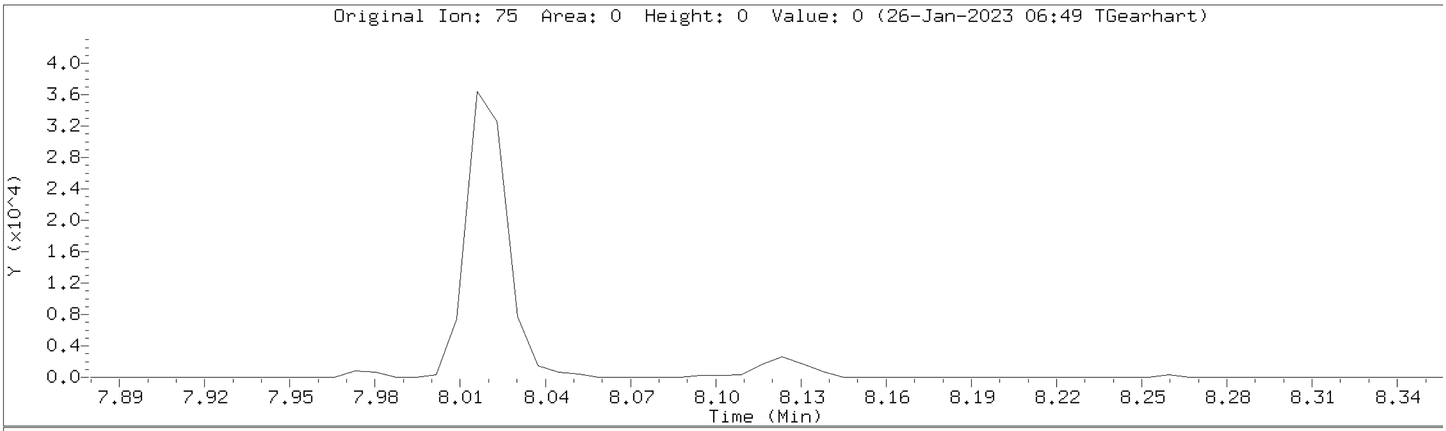
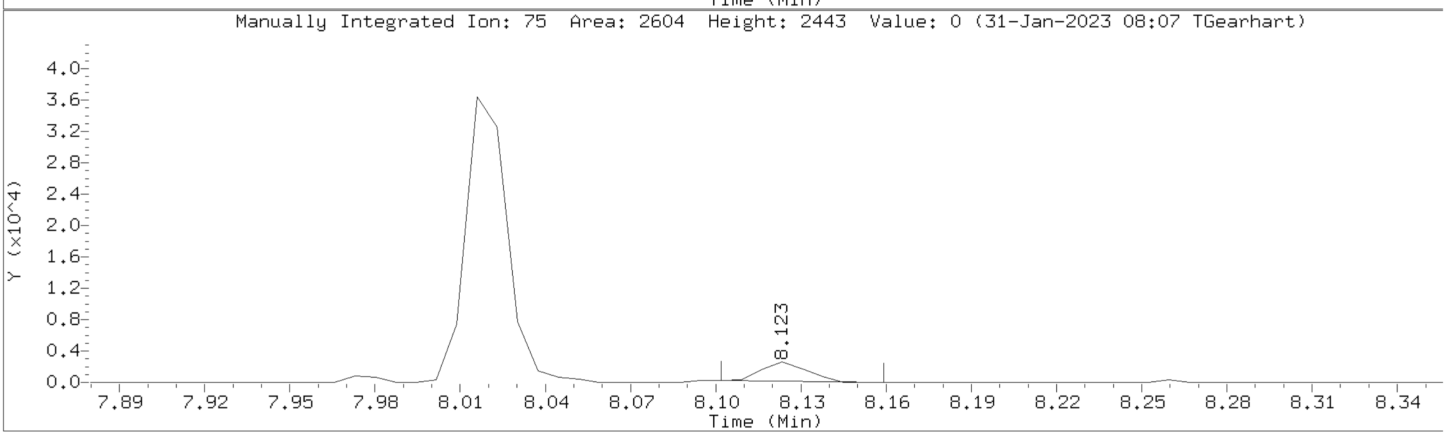
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

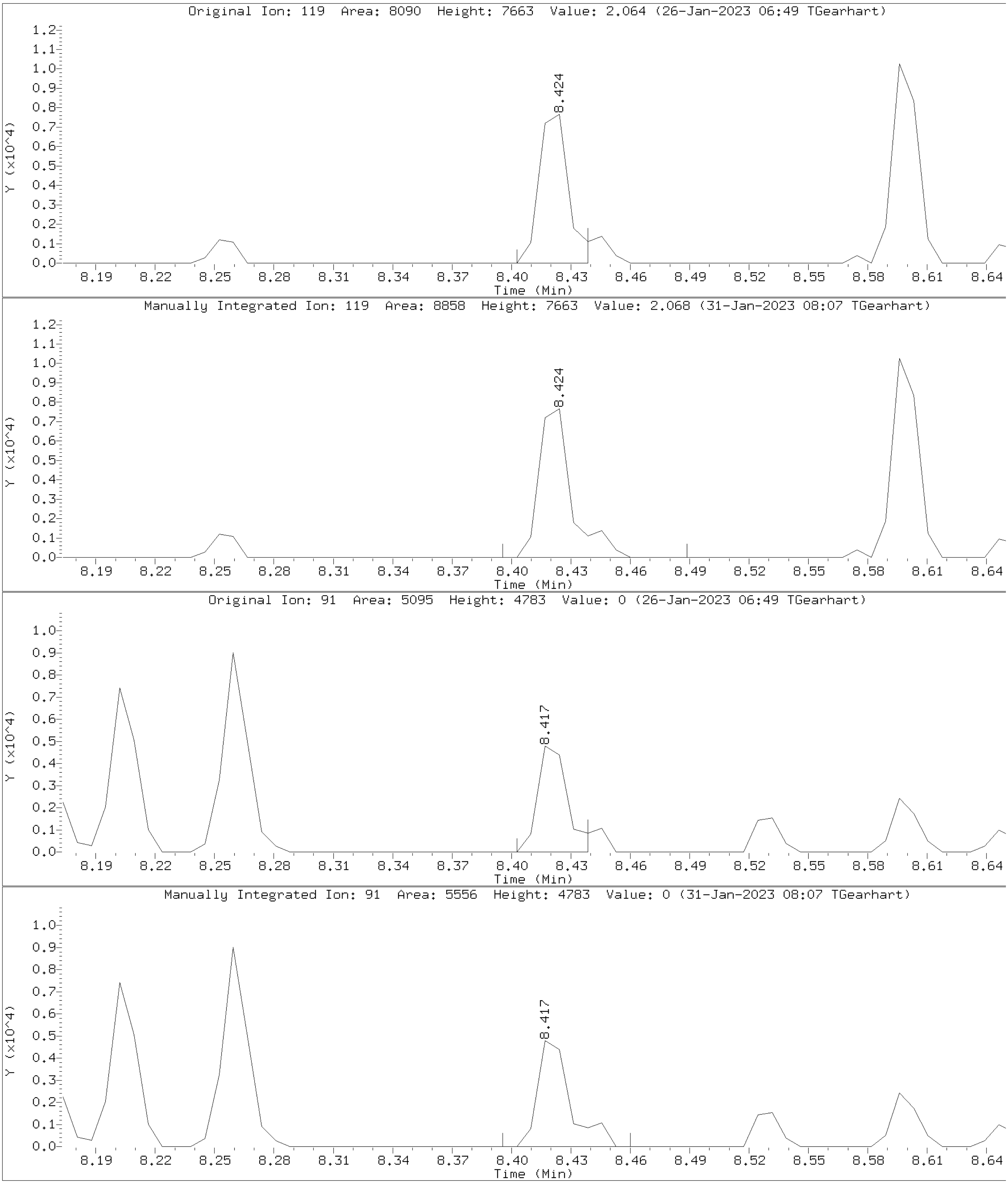
Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6

Original Ion: 119 Area: 8090 Height: 7663 Value: 2.064 (26-Jan-2023 06:49 TGearhart)

Manually Integrated Ion: 119 Area: 8858 Height: 7663 Value: 2.068 (31-Jan-2023 08:07 TGearhart)

Original Ion: 91 Area: 5095 Height: 4783 Value: 0 (26-Jan-2023 06:49 TGearhart)

Manually Integrated Ion: 91 Area: 5556 Height: 4783 Value: 0 (31-Jan-2023 08:07 TGearhart)



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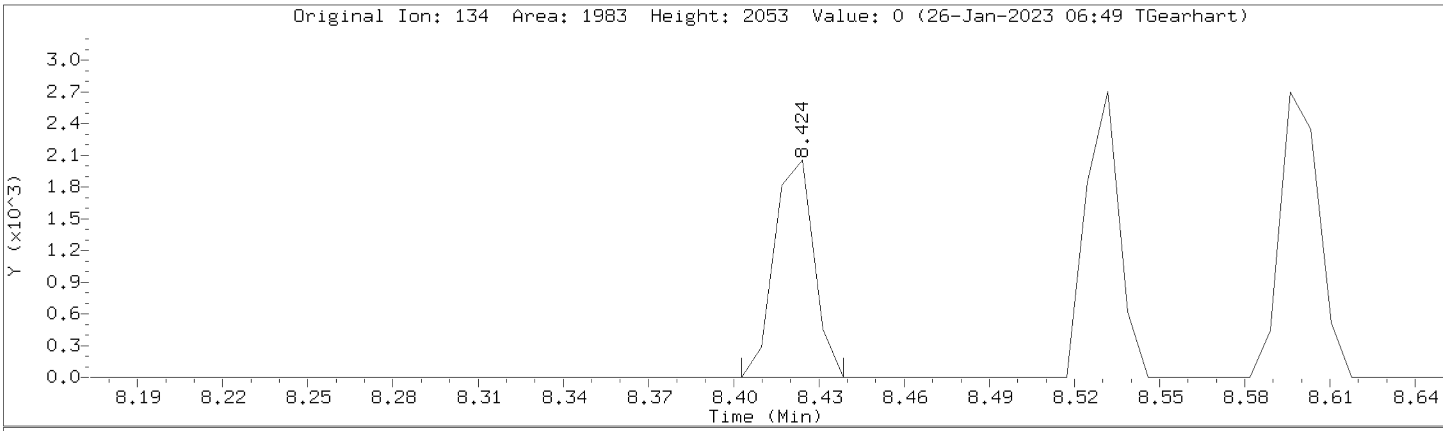
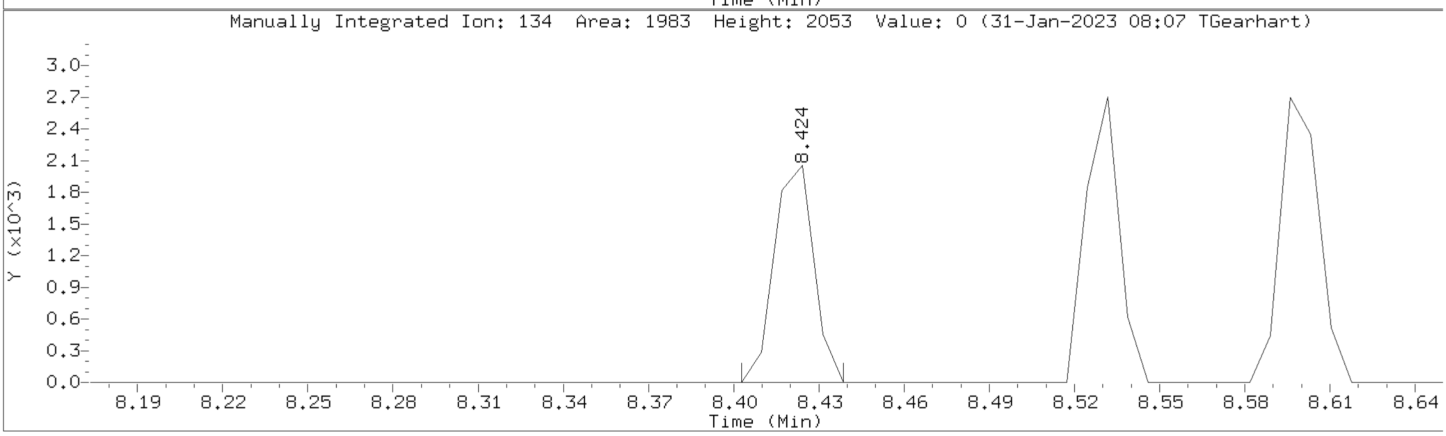
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





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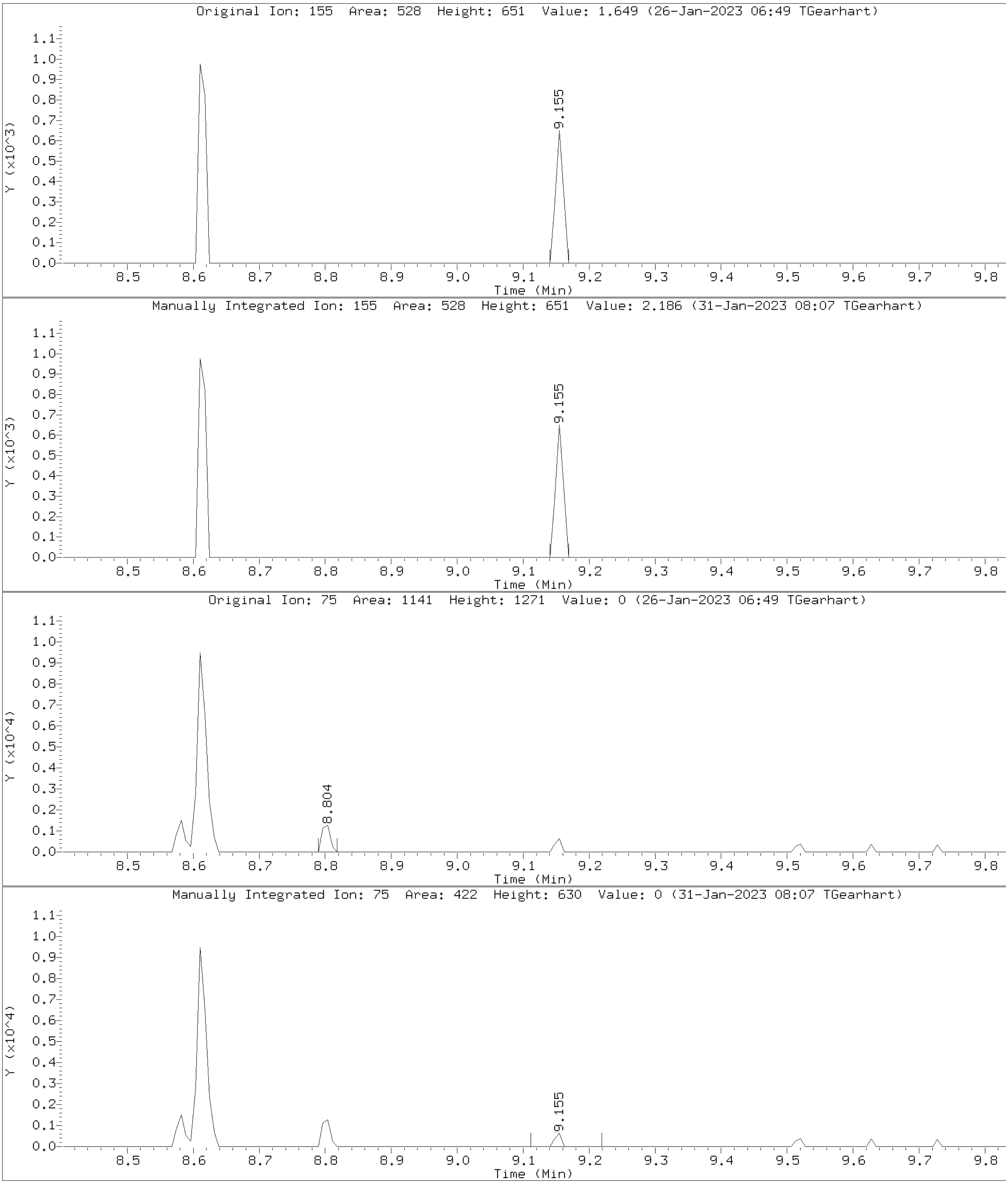
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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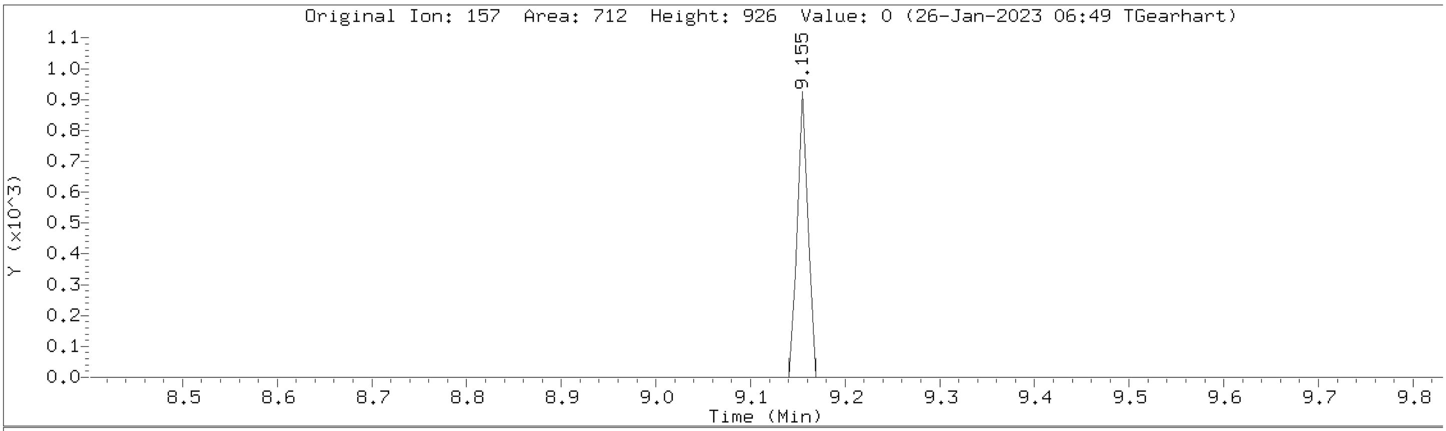
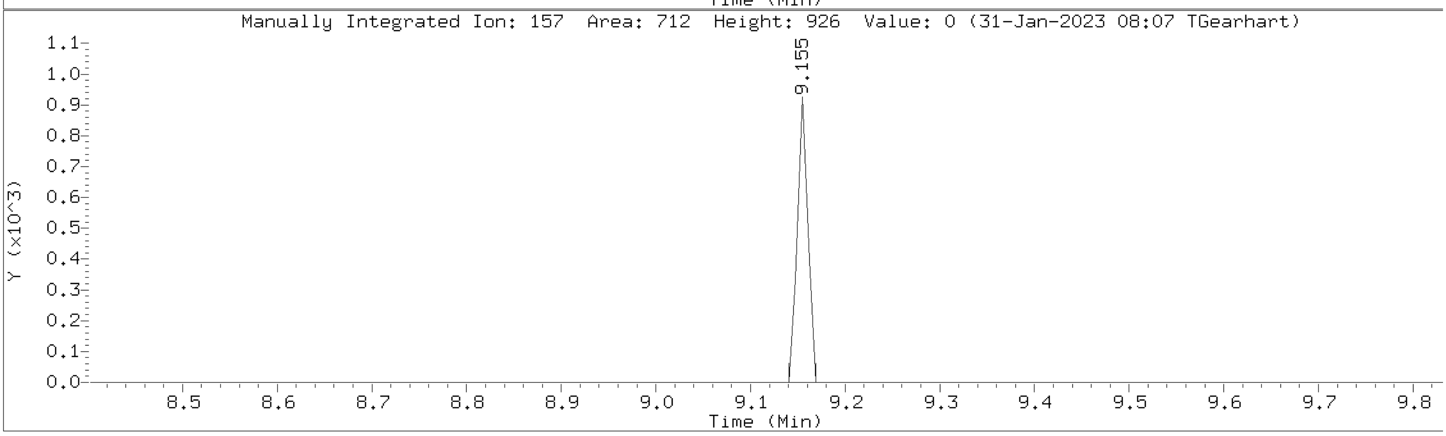
Lab Sample ID: 8260-CAL3





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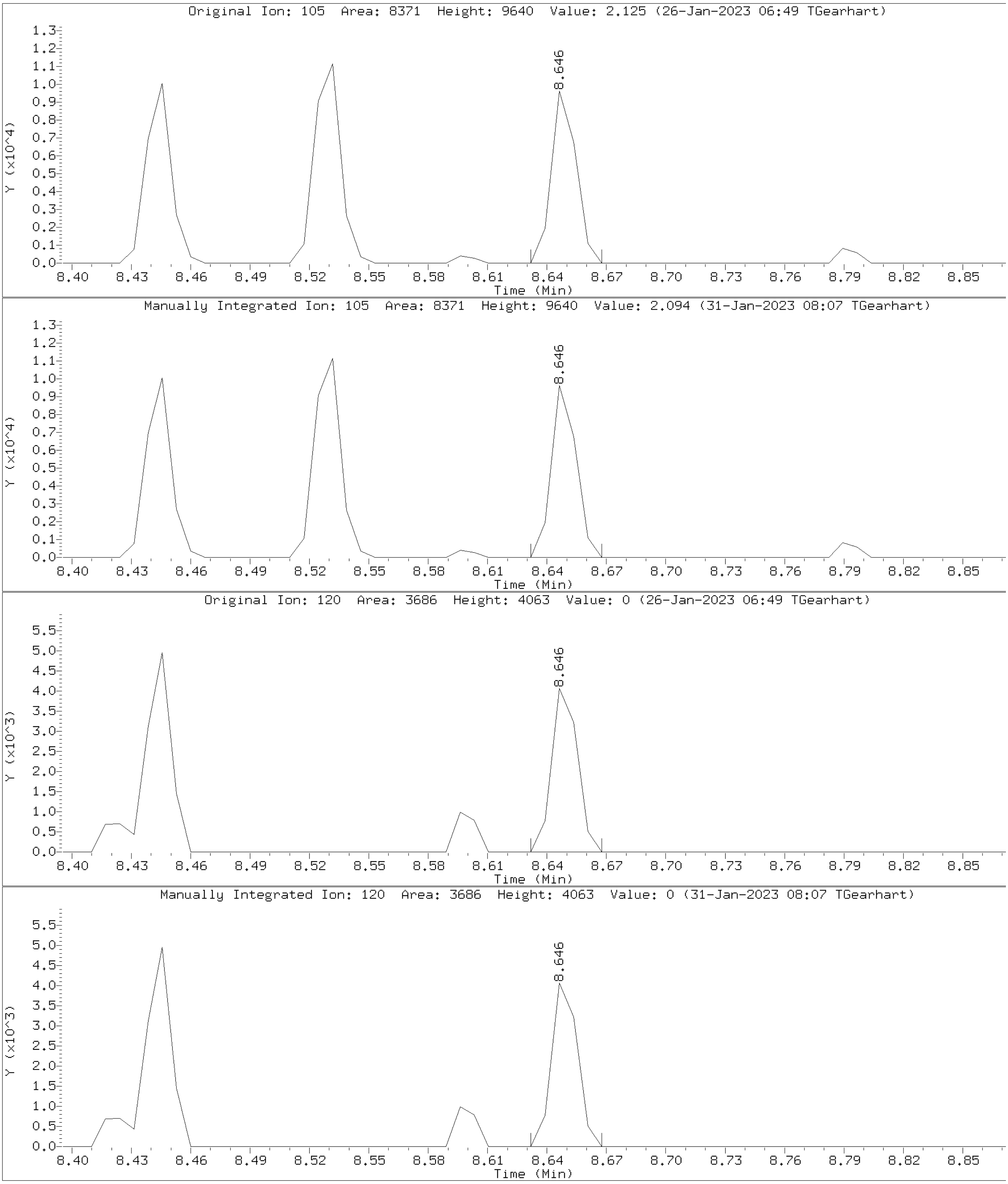
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2,3-Trimethylbenzene   Review Code: WP
CAS Number: 526-73-8



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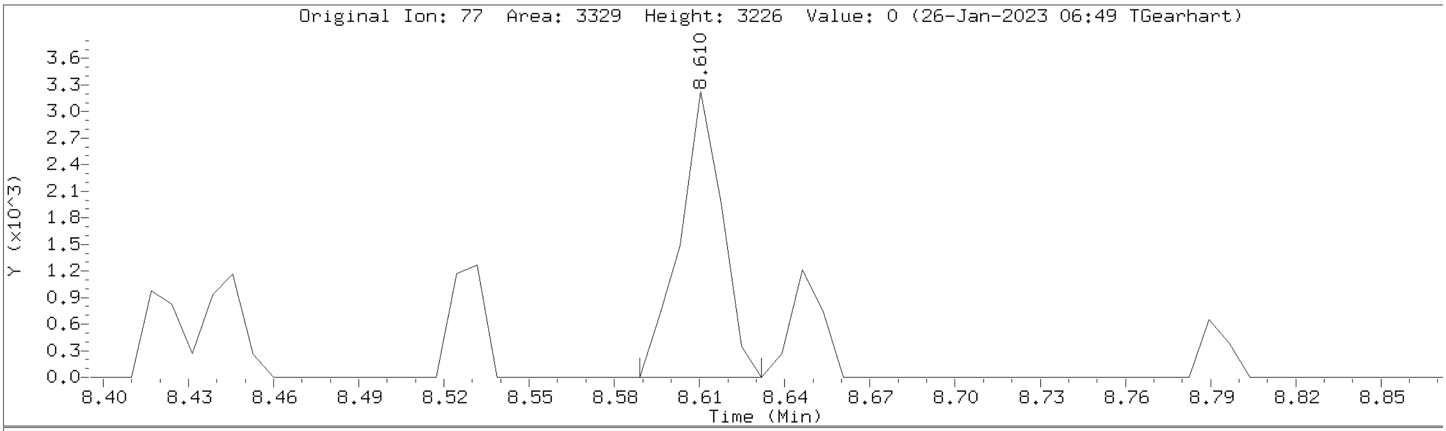
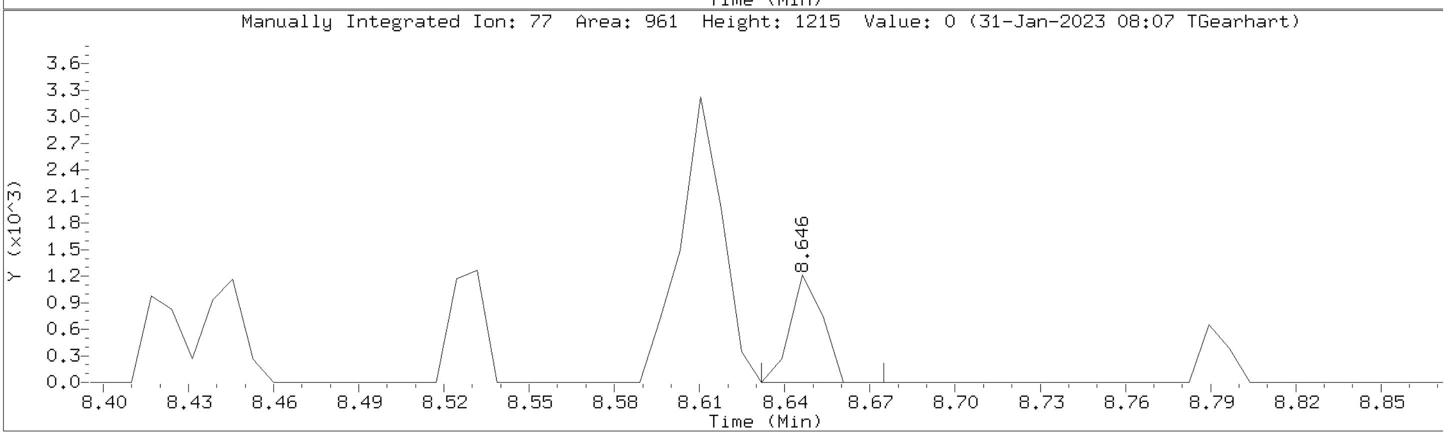
Injection Date: 24-JAN-2023 15:19
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL3





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a08cal4.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 24-JAN-2023 15:48
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal4,336621
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 8 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)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.974	0.975	(0.221)	6998	5.00000	6.42(M)	NI
2 Chloromethane	50	1.132	1.139	(0.257)	4600	5.00000	6.67	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	5835	5.00000	6.56	
4 Bromomethane	94	1.275	1.275	(0.289)	4176	5.00000	6.98(M)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	3596	5.00000	6.60	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	8697	5.00000	6.00	
7 Diethyl ether	74	1.590	1.590	(0.361)	2674	5.00000	5.08	
8 Acrolein	56	1.655	1.662	(0.376)	19015	100.000	102	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	4768	5.00000	5.05	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	4116	5.00000	5.07	
11 Acetone	43	1.741	1.740	(0.395)	8766	25.0000	28.0	
12 Iodomethane	142	1.812	1.819	(0.411)	7053	5.00000	5.35	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	11683	5.00000	5.38	
14 Acetonitrile	39	1.927	1.927	(0.437)	4231	25.0000	28.4(M)	GT
15 allyl chloride	41	1.927	1.927	(0.437)	7531	5.00000	5.82	
16 Methyl Acetate	43	1.934	1.934	(0.439)	20162	25.0000	27.2	
17 Methylene Chloride	84	2.006	2.006	(0.455)	5523	5.00000	5.32	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	2198	25.0000	23.8(M)	WP
19 Acrylonitrile	53	2.156	2.156	(0.489)	9384	25.0000	26.3	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	14076	5.00000	5.28	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	4808	5.00000	5.18	
22 n-Hexane	57	2.392	2.392	(0.543)	5996	5.00000	5.10	
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	7481	5.00000	5.15	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.536	2.536	(0.576)	39010	20.0000	20.8	
25 Diisopropyl ether	45	2.557	2.557	(0.581)	12236	5.00000	5.18	
26 chloroprene	53	2.579	2.579	(0.585)	6356	5.00000	5.07	
27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	13386	5.00000	5.29	
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	5400	5.00000	5.23	
29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	6452	5.00000	5.11	
30 2-Butanone	43	3.037	3.037	(0.689)	11966	25.0000	25.0	
31 Propionitrile	54	3.094	3.101	(0.702)	2742	25.0000	23.7(M)	NI
32 Ethyl Acetate	88	3.109	3.109	(0.706)	1243	25.0000	27.1	
33 Methacrylonitrile	41	3.259	3.259	(0.740)	14692	25.0000	28.0	
34 Bromochloromethane	49	3.273	3.266	(0.743)	2819	5.00000	5.29	
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	7992	25.0000	25.8	
36 Chloroform	83	3.367	3.367	(0.764)	8673	5.00000	5.09	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	54788	50.0000	50.3	
38 1,1,1-Trichloroethane	97	3.581	3.581	(0.813)	7490	5.00000	4.92	
39 Cyclohexane	56	3.660	3.660	(0.831)	6516	5.00000	4.96	
40 Carbon Tetrachloride	117	3.804	3.803	(0.863)	6613	5.00000	4.84	
41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	5844	5.00000	5.14	
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	4.054	4.061	(0.920)	18424	5.00000	5.05	
44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	6326	5.00000	4.98	
45 2,2,4-Trimethylpentane	57	4.405	4.405	(1.000)	8862	5.00000	4.99	
46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	13604	5.00000	5.07	
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	201197	50.0000		
48 Trichloroethene	95	4.835	4.835	(1.098)	5208	5.00000	5.18	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	5588	5.00000	5.00	
50 1,2-Dichloropropane	63	5.079	5.079	(1.153)	4313	5.00000	5.19(M)	NI
51 Dibromomethane	93	5.200	5.200	(1.180)	3080	5.00000	5.16	
52 1,4-Dioxane	88	Compound Not Detected.						
53 Methyl methacrylate	69	5.258	5.258	(1.193)	3728	5.00000	4.97	
54 Bromodichloromethane	83	5.387	5.387	(1.223)	5904	5.00000	4.94	
55 2-Chloroethyl vinyl ether	63	5.738	5.738	(0.785)	16519	25.0000	26.6	
56 cis-1,3-Dichloropropene	75	5.867	5.866	(0.803)	7221	5.00000	5.05	
57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	27195	25.0000	26.9	
$ 58 Toluene-d8	98	6.132	6.131	(0.839)	198364	50.0000	50.2	
59 Toluene	91	6.196	6.203	(0.848)	22192	5.00000	5.15	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	6618	5.00000	4.92	
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	6401	5.00000	4.93(M)	WP
62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	3691	5.00000	5.25	
63 Tetrachloroethene	166	6.697	6.697	(0.917)	6735	5.00000	5.08	
64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	7330	5.00000	5.12	
65 2-Hexanone	43	6.812	6.812	(0.932)	20885	25.0000	27.6	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	5049	5.00000	4.74	
67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	5042	5.00000	5.36	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	155321	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	15209	5.00000	5.14	
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	5121	5.00000	4.90	
71 Ethylbenzene	106	7.407	7.407	(1.014)	8141	5.00000	5.17	
72 m&p-Xylene	106	7.485	7.485	(1.025)	10191	5.00000	5.18	
73 o-Xylene	106	7.722	7.722	(1.057)	9590	5.00000	5.13	
74 Styrene	104	7.729	7.736	(1.058)	16549	5.00000	5.18	
75 Bromoform	173	7.836	7.836	(0.910)	3696	5.00000	4.56(M)	NI
76 Isopropylbenzene	105	7.937	7.937	(1.086)	26096	5.00000	5.18	
$ 77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	75475	50.0000	50.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	8600	5.00000	4.86	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	6675	5.00000	5.37(M)	NI
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	2312	5.00000	5.12	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	1842	5.00000	5.25(M)	WP
82 n-Propylbenzene	91	8.159	8.159	(0.948)	29683	5.00000	5.22	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	17445	5.00000	5.28	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	21442	5.00000	5.16	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	6550	5.00000	5.25	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	21769	5.00000	5.09(M)	LT
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	22065	5.00000	5.19	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	26518	5.00000	5.17	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	12483	5.00000	5.08	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	23422	5.00000	5.16	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	85332	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	12398	5.00000	5.12	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	20644	5.00000	5.17	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	18457	5.00000	5.09	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	11286	5.00000	5.15	
96 Hexachloroethane	201	8.925	8.925	(1.037)	3046	5.00000	4.45	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	1395	5.00000	4.76	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	6453	5.00000	4.93	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	3023	5.00000	4.72	
100 Naphthalene	128	9.627	9.627	(1.118)	17442	5.00000	5.11	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	5372	5.00000	5.21	
102 2,methyl-naphthalene	142	10.129	10.129	(1.176)	5849	5.00000	5.04	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	5037	5.00000	5.07	

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).
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a08cal4.d

Page 4

Date : 24-JAN-2023 15:48

Client ID: 8260-CAL4

Instrument: 50mv2a.i

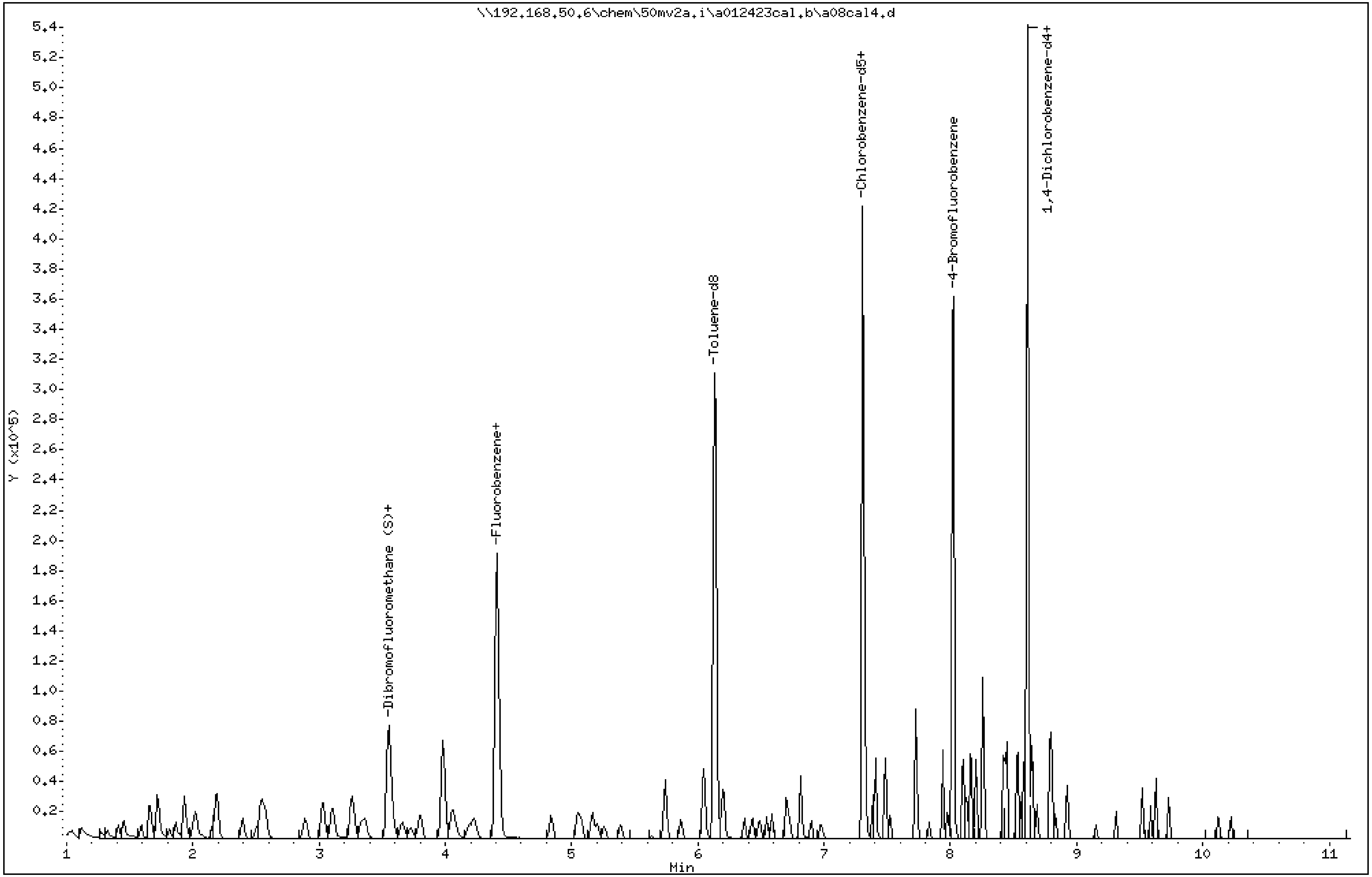
Sample Info: 8260-CAL4,336621

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 24-JAN-2023 15:48

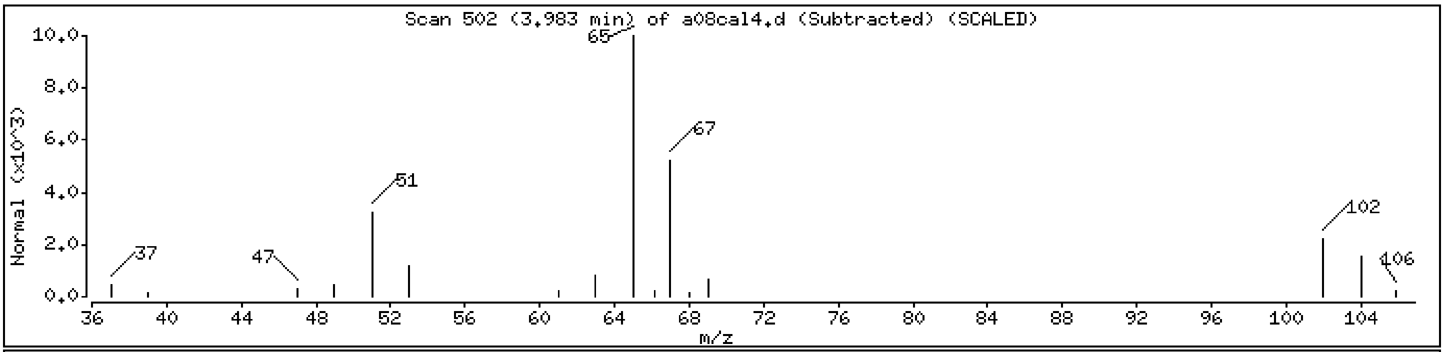
Client ID: 8260-CAL4 Instrument: 50mv2a.i

Sample Info: 8260-CAL4,336621

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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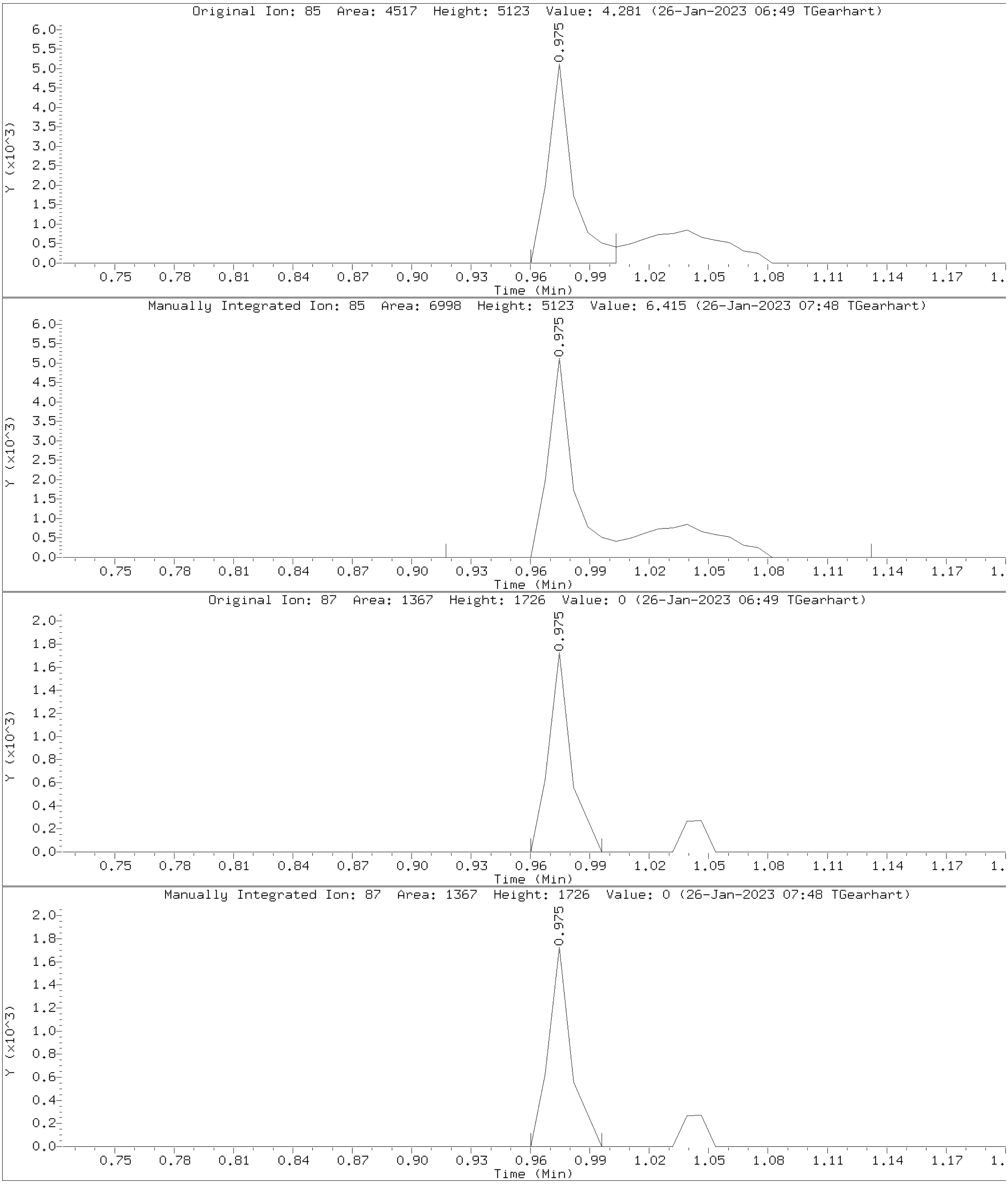
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 460-00-4



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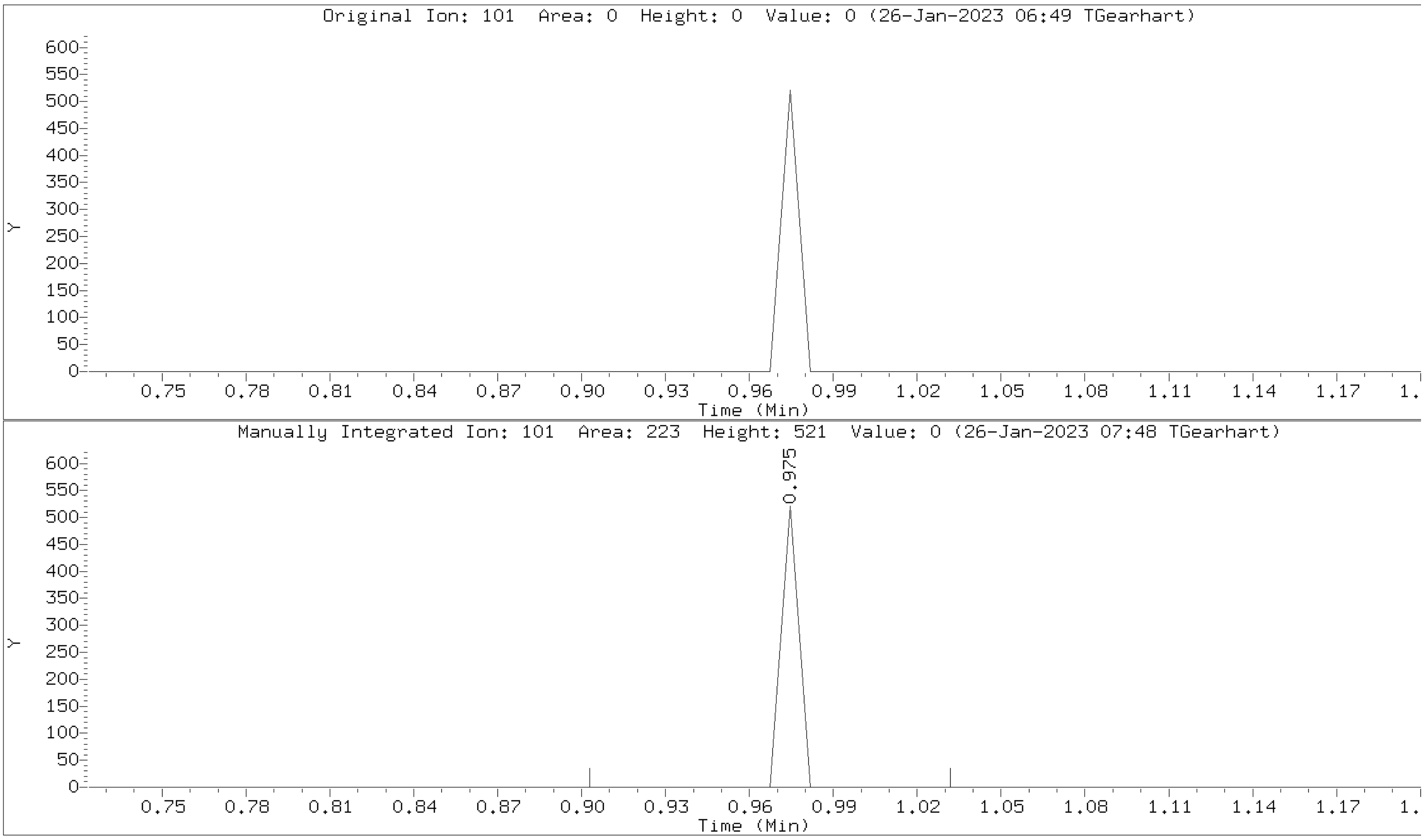
Lab Sample ID: 8260-CAL4



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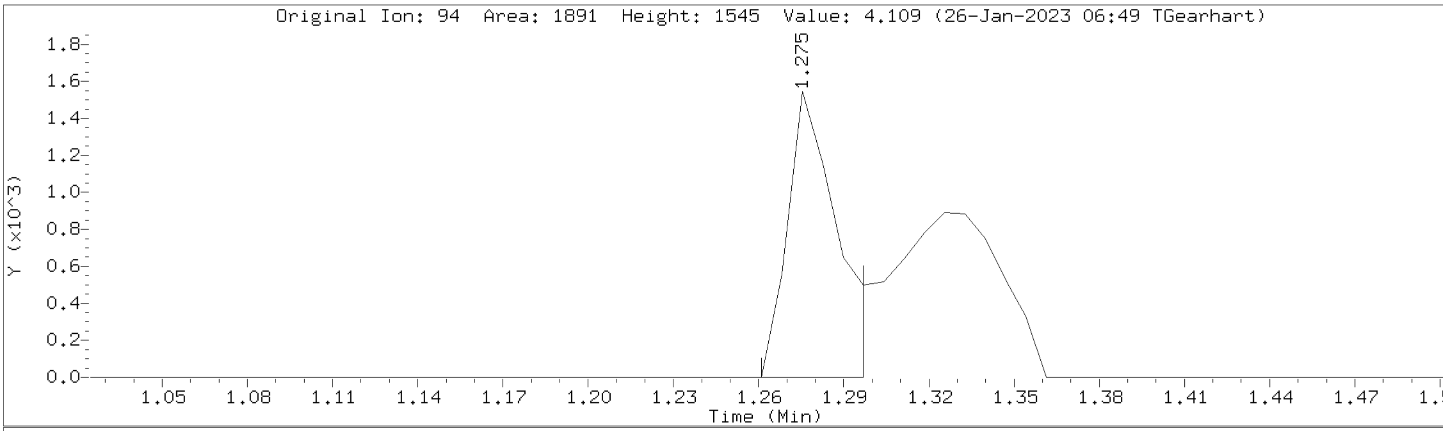
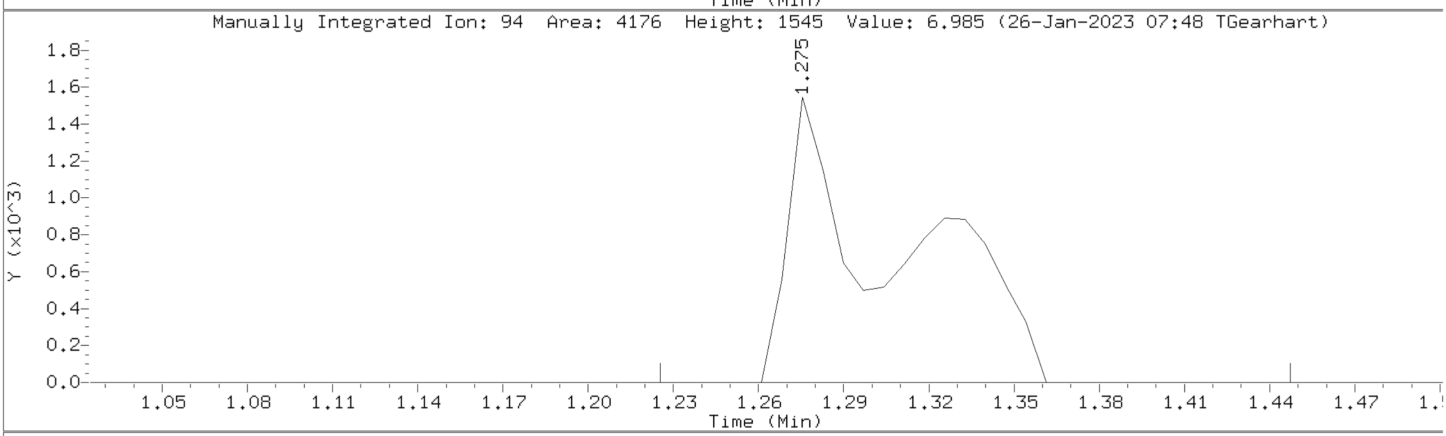
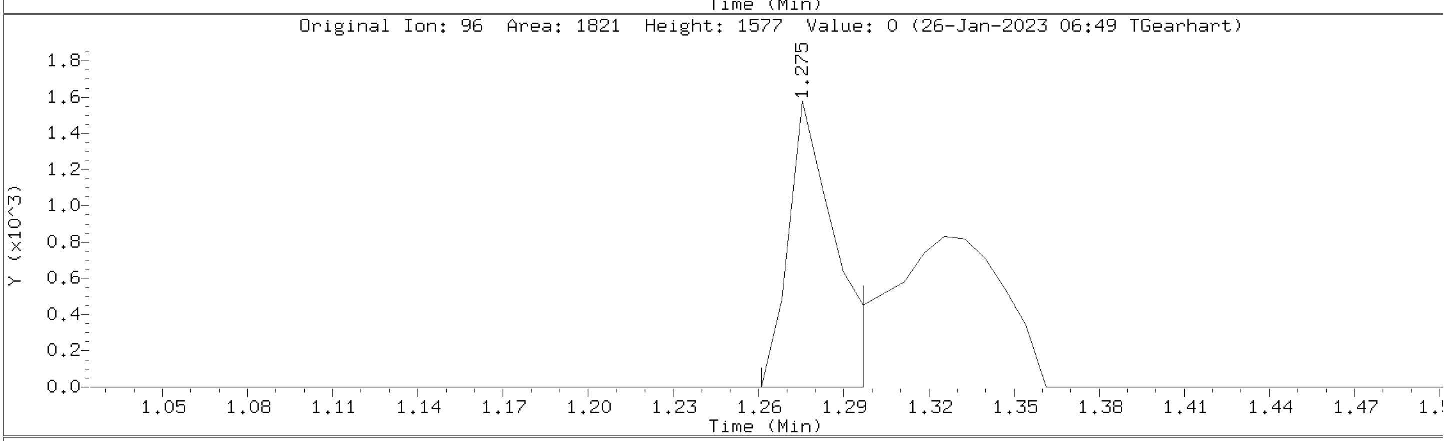
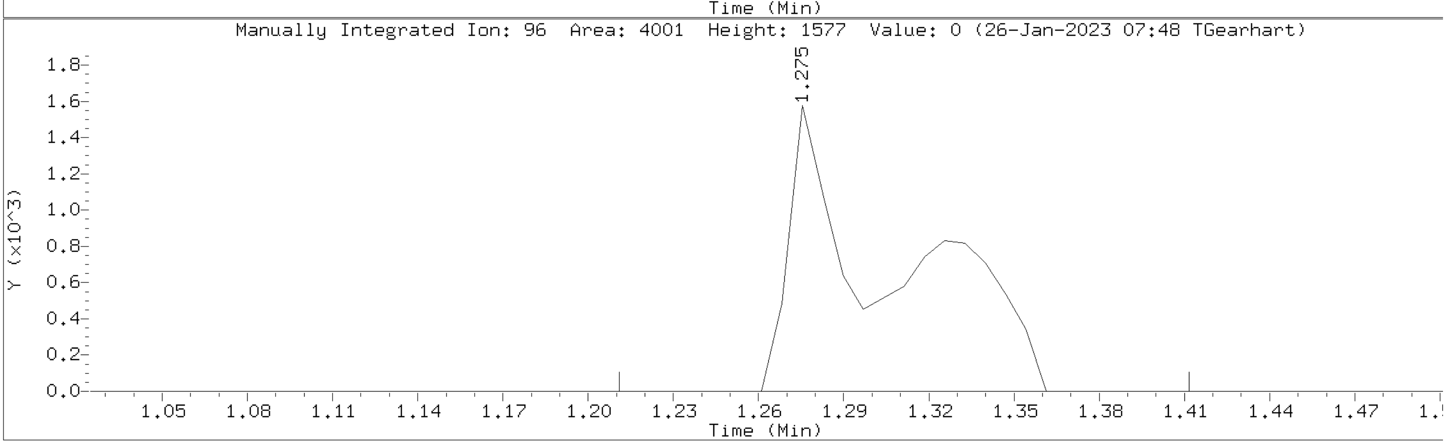
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9









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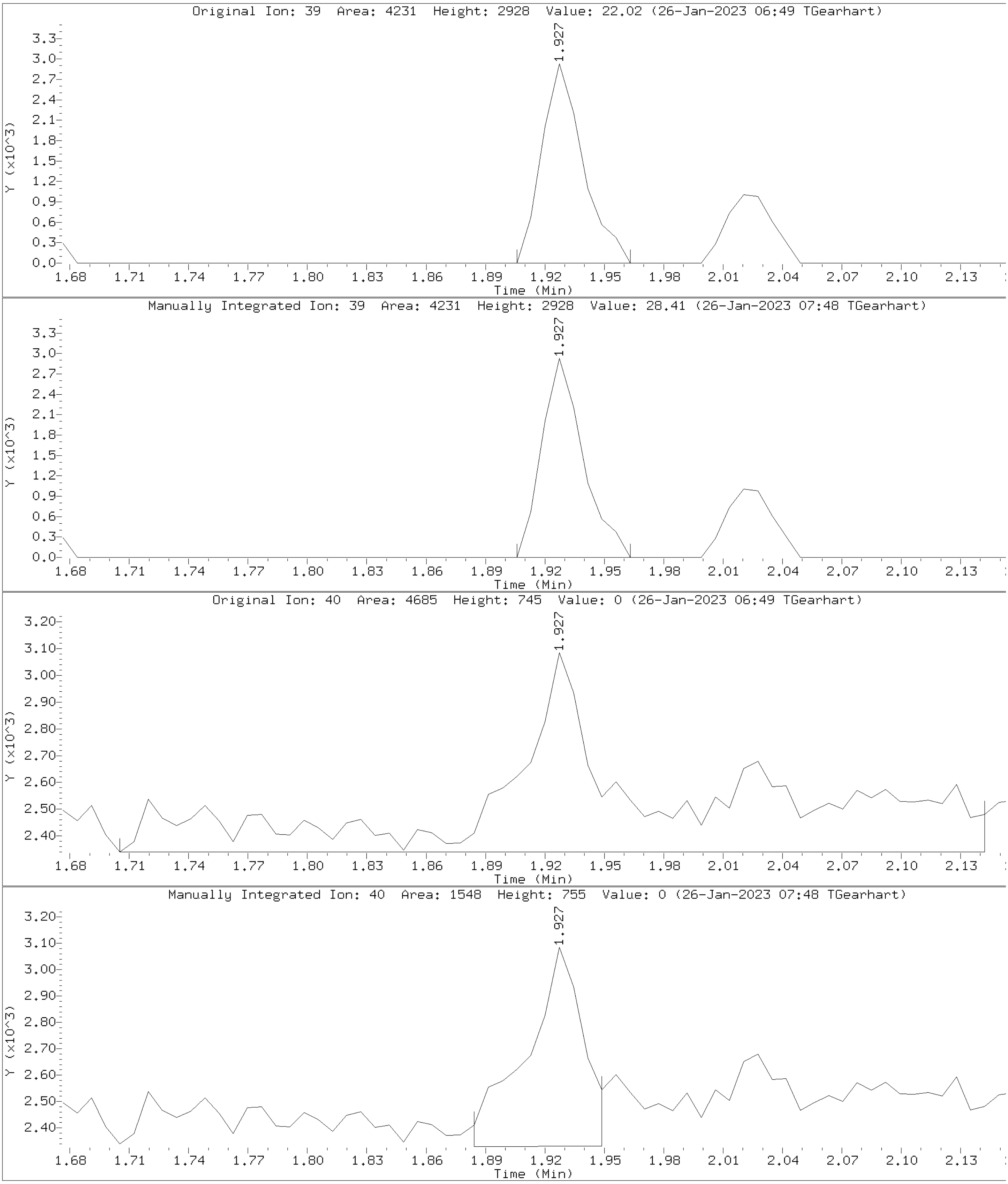
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8



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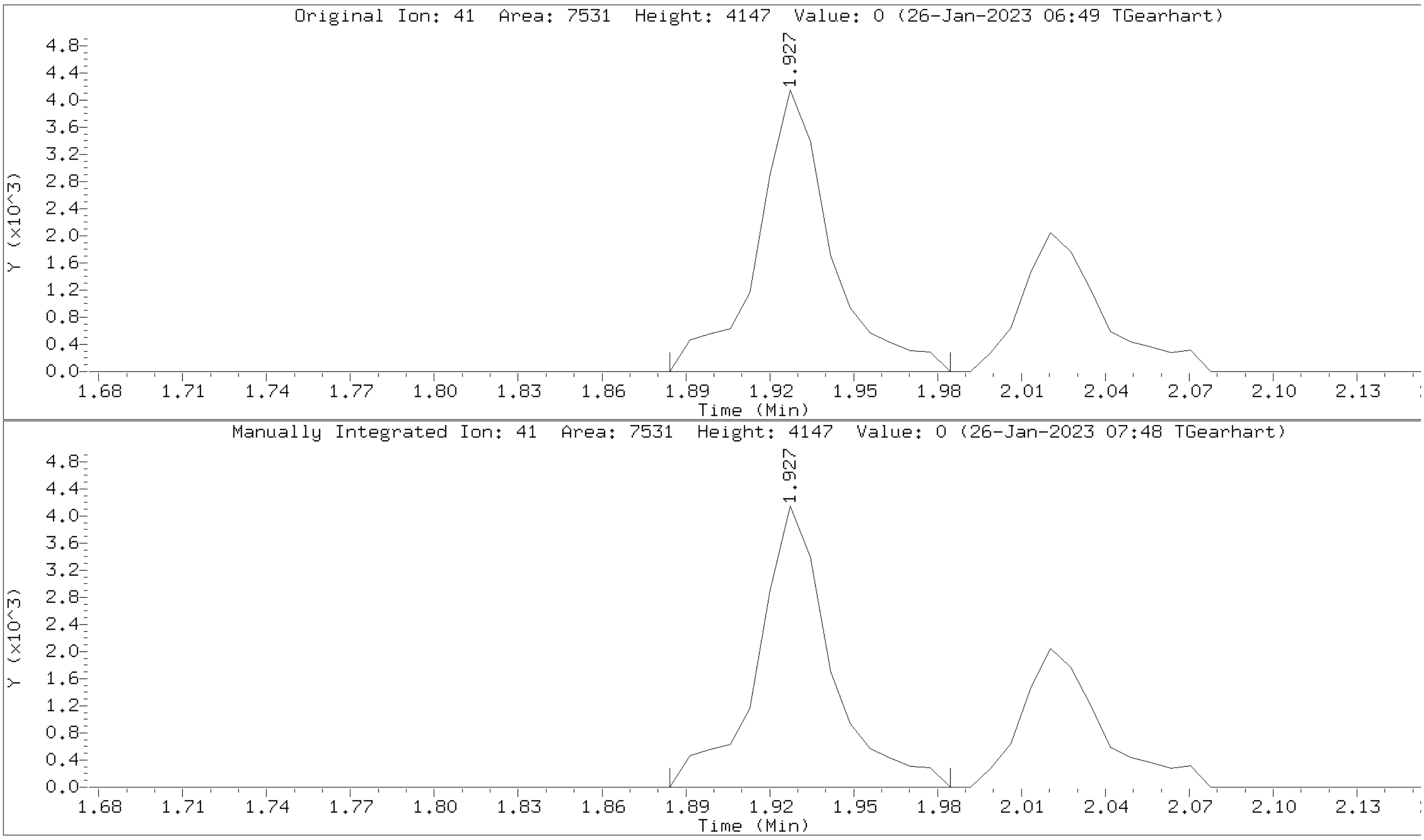
Lab Sample ID: 8260-CAL4



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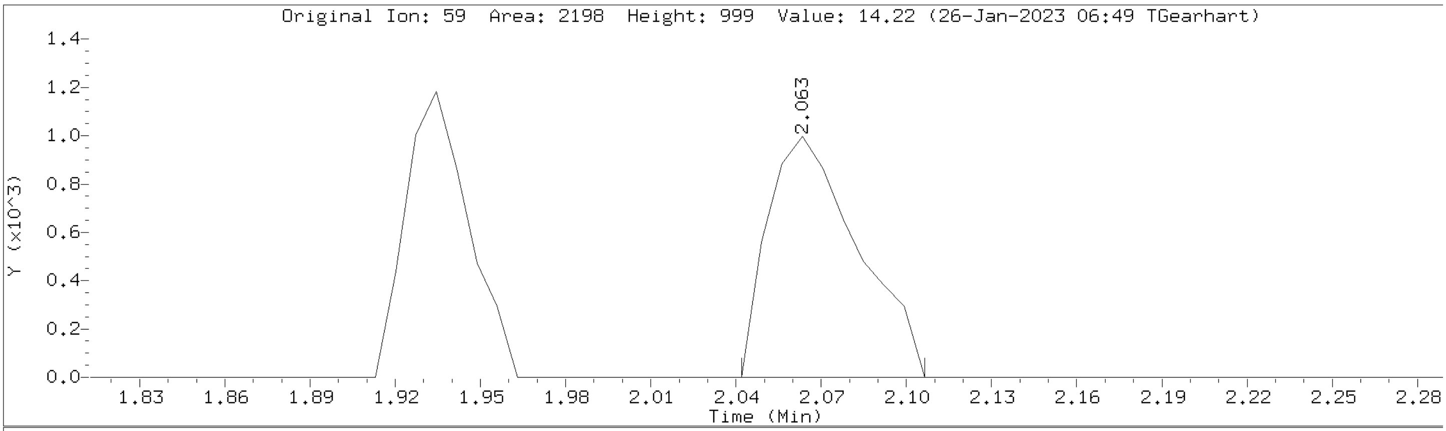
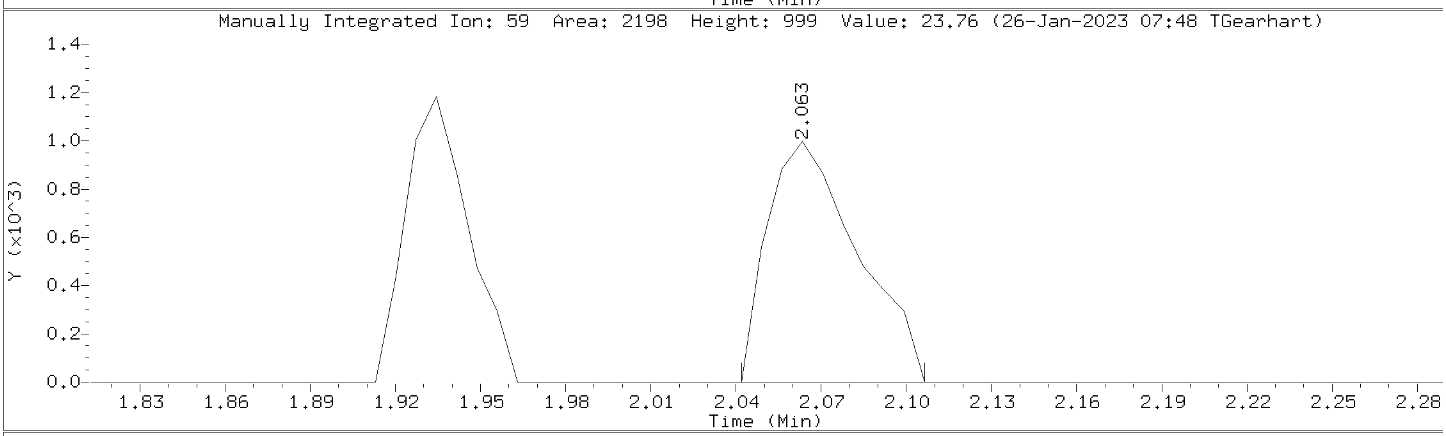
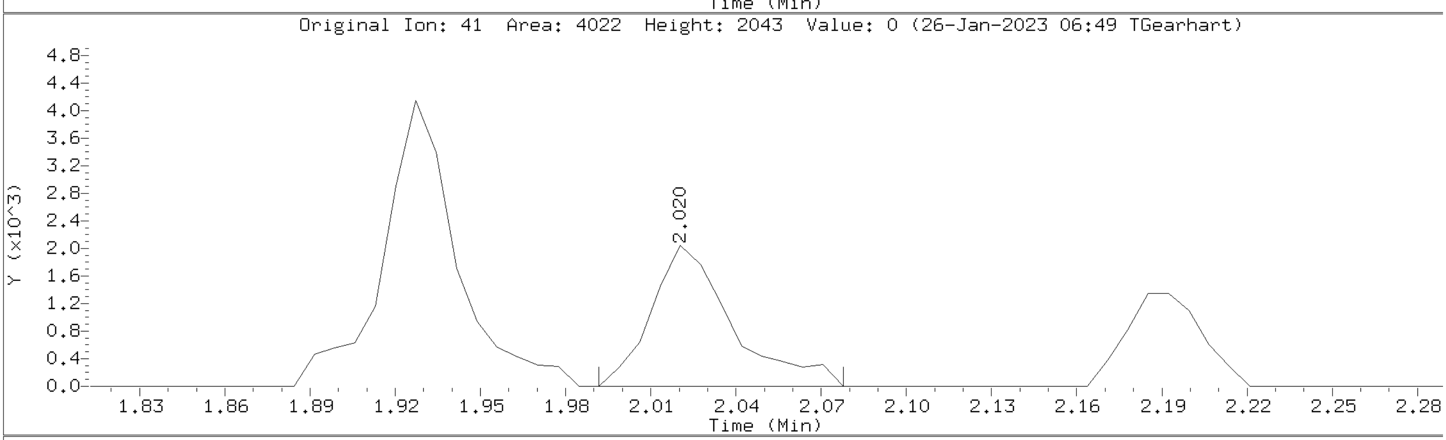
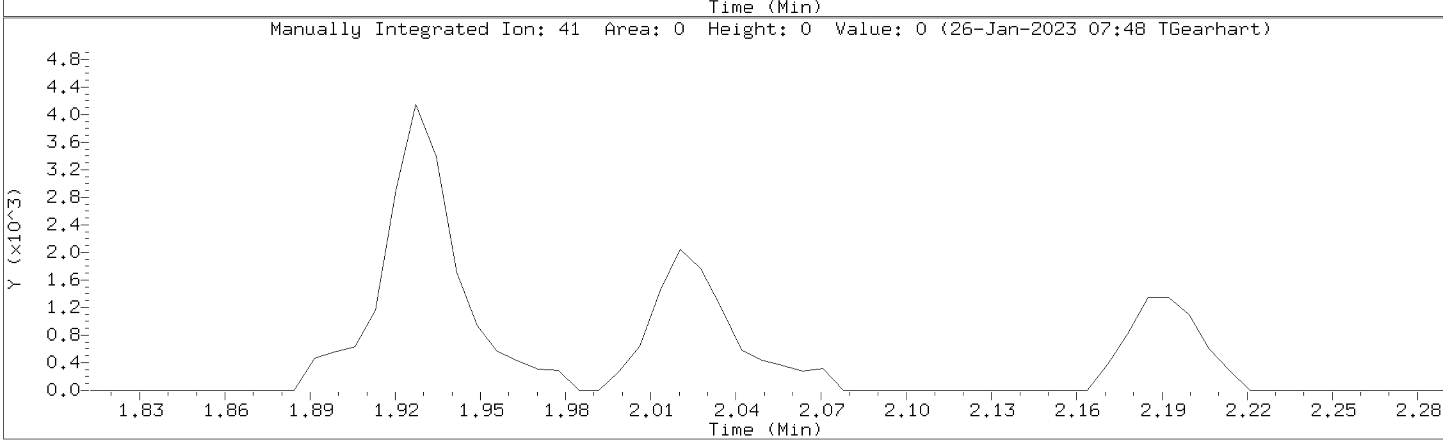
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









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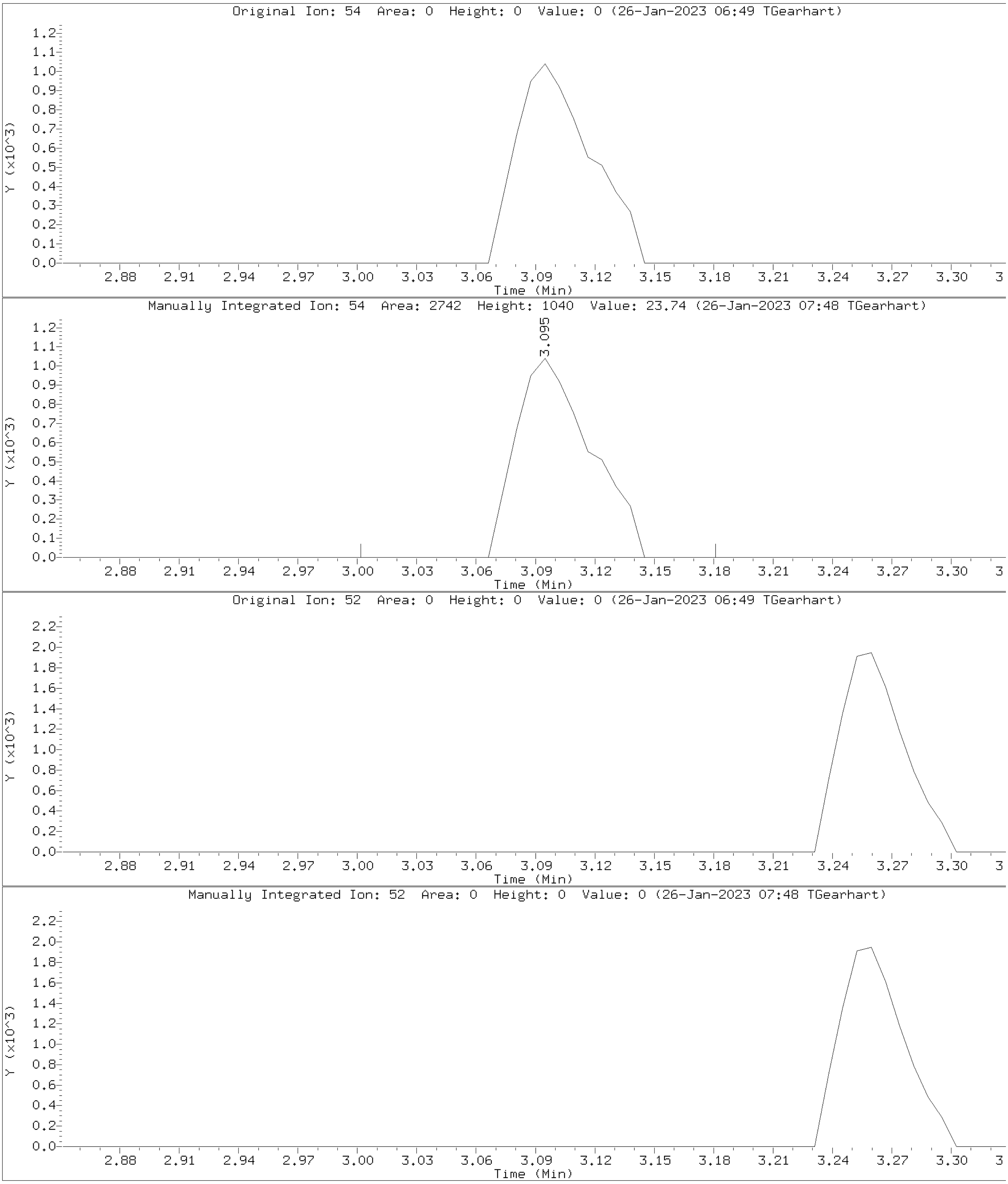
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Propionitrile   Review Code: NI
CAS Number: 107-12-0



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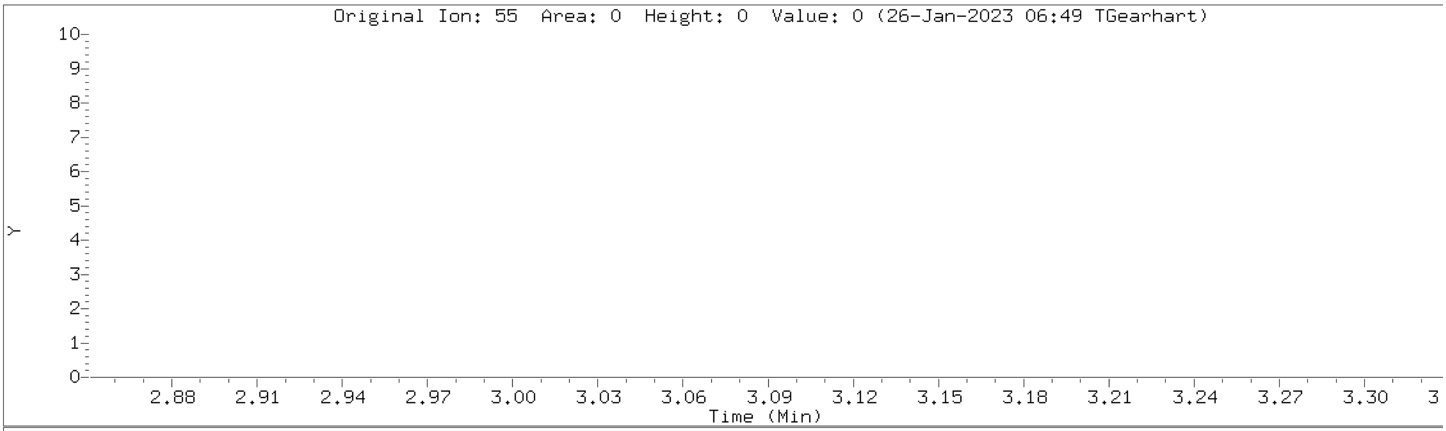
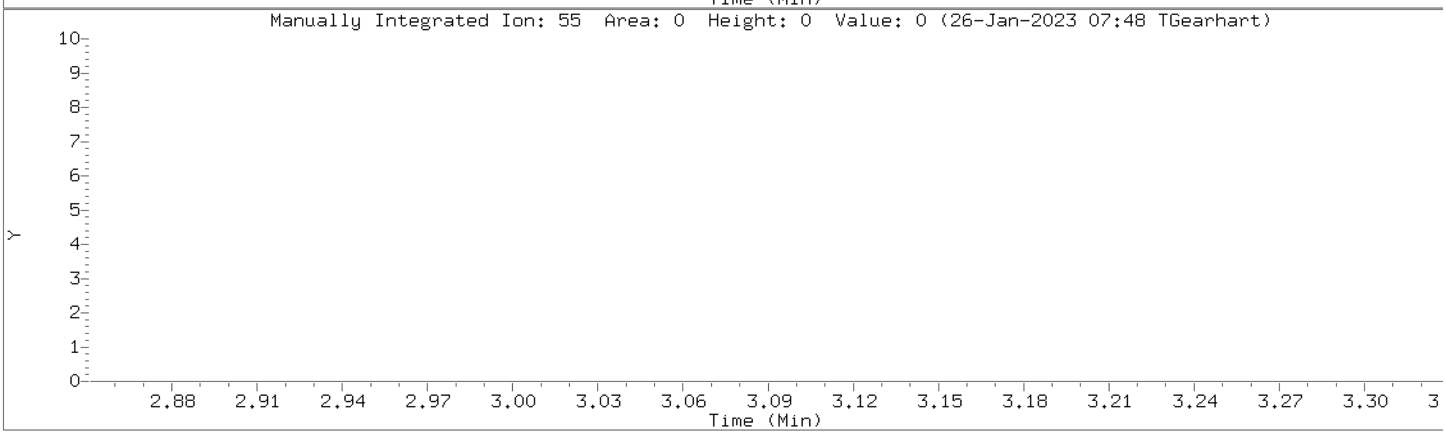
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4





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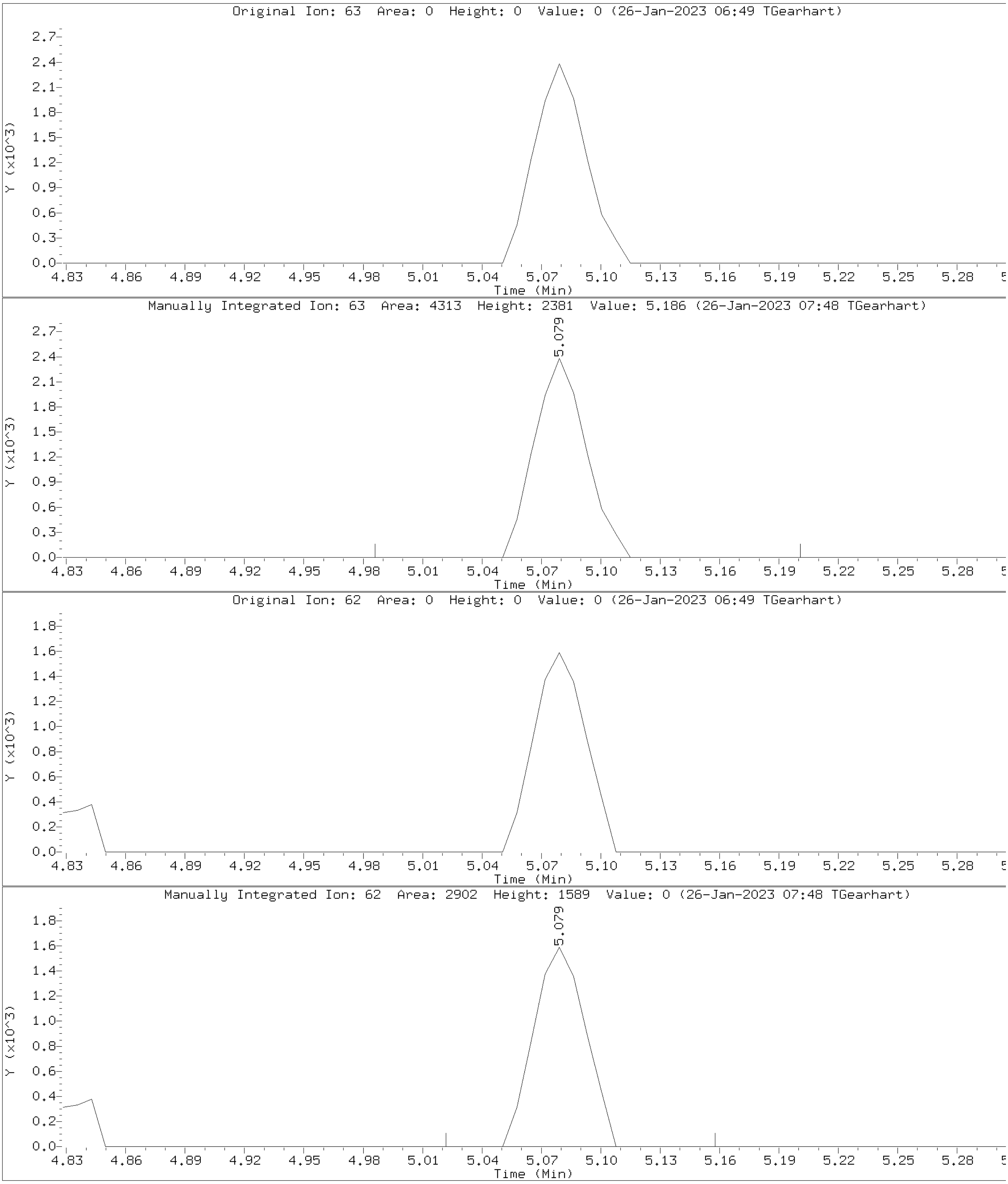
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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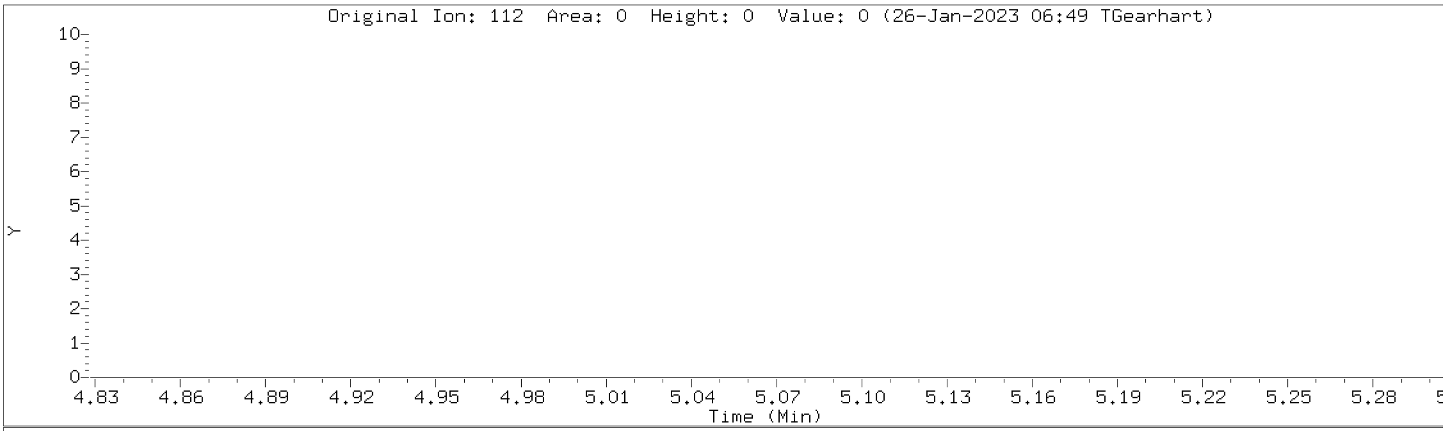

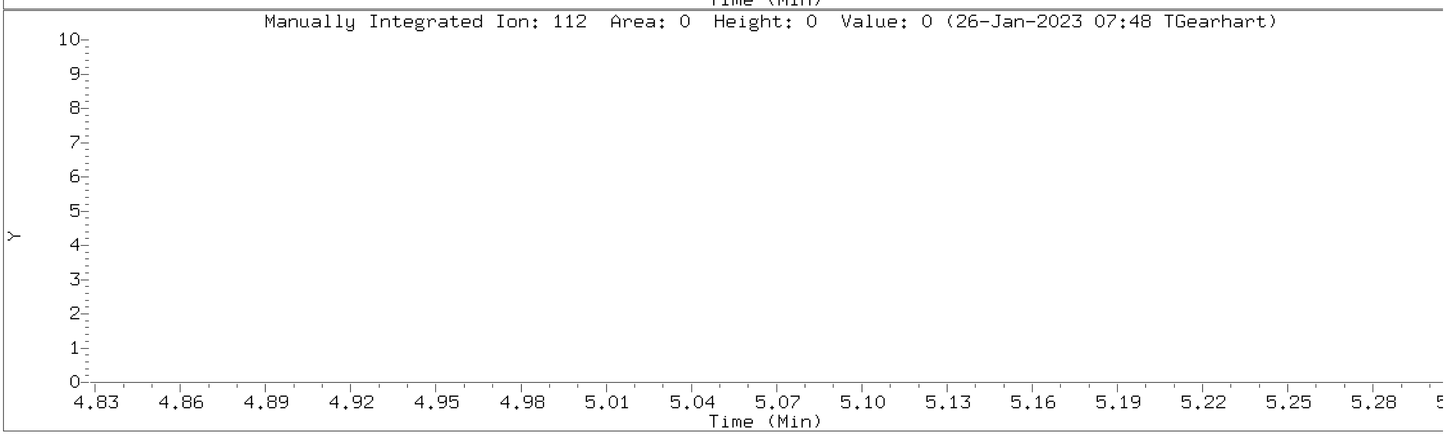

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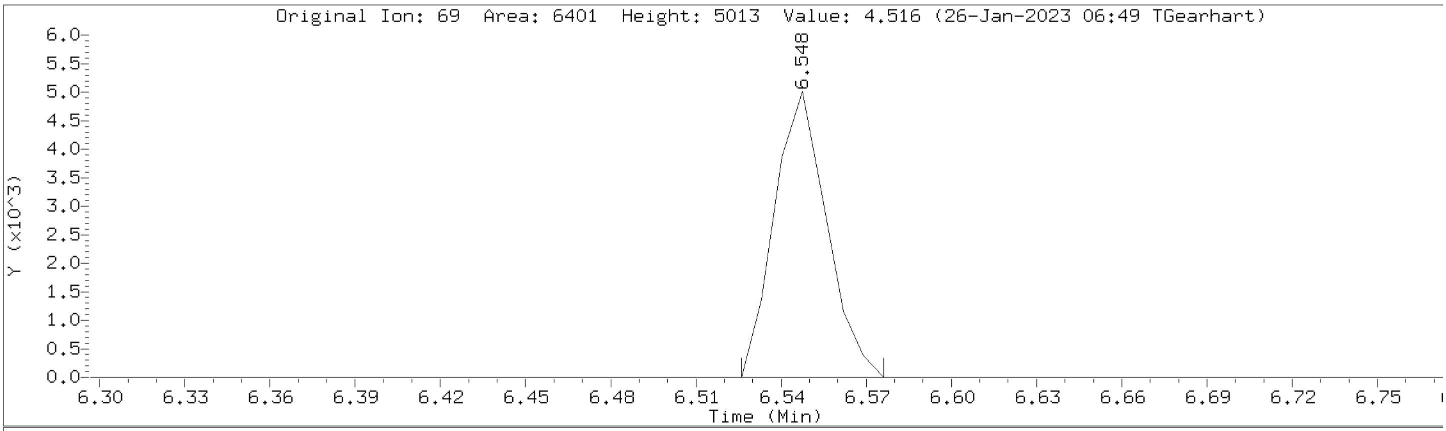
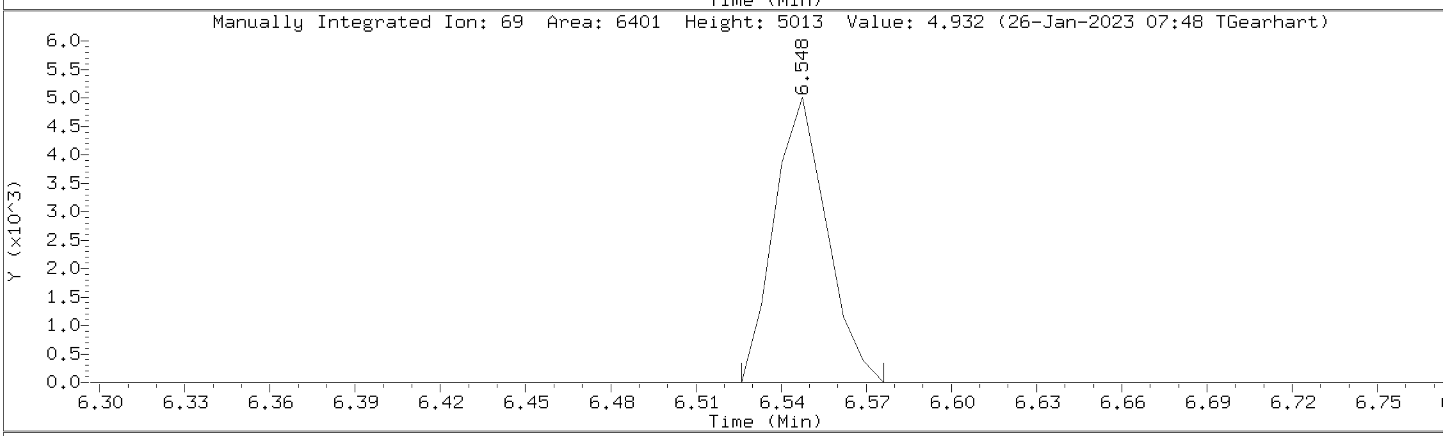
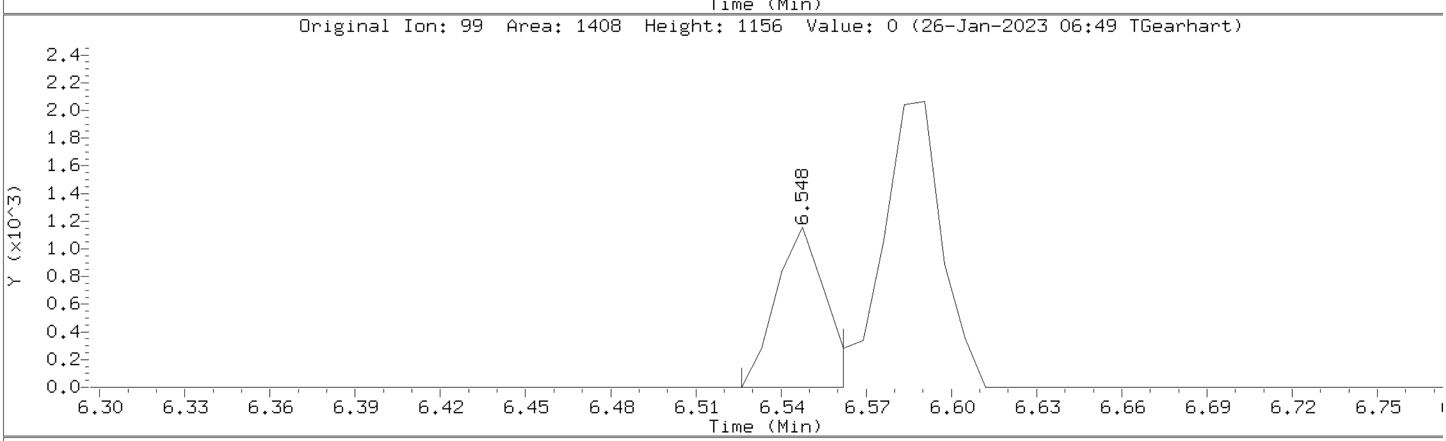
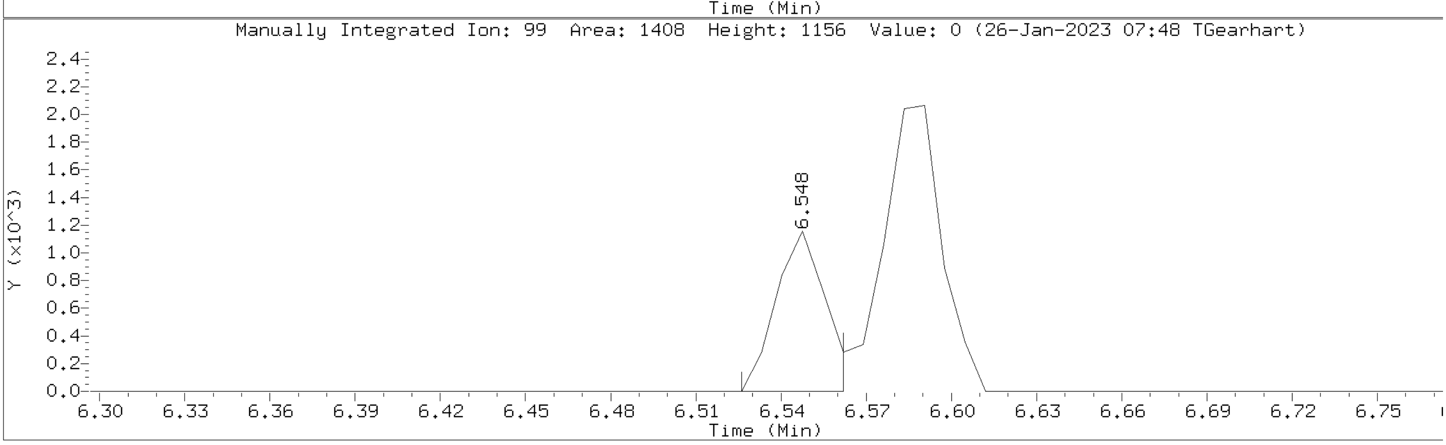
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Ethyl Methacrylate   Review Code: WP
CAS Number:









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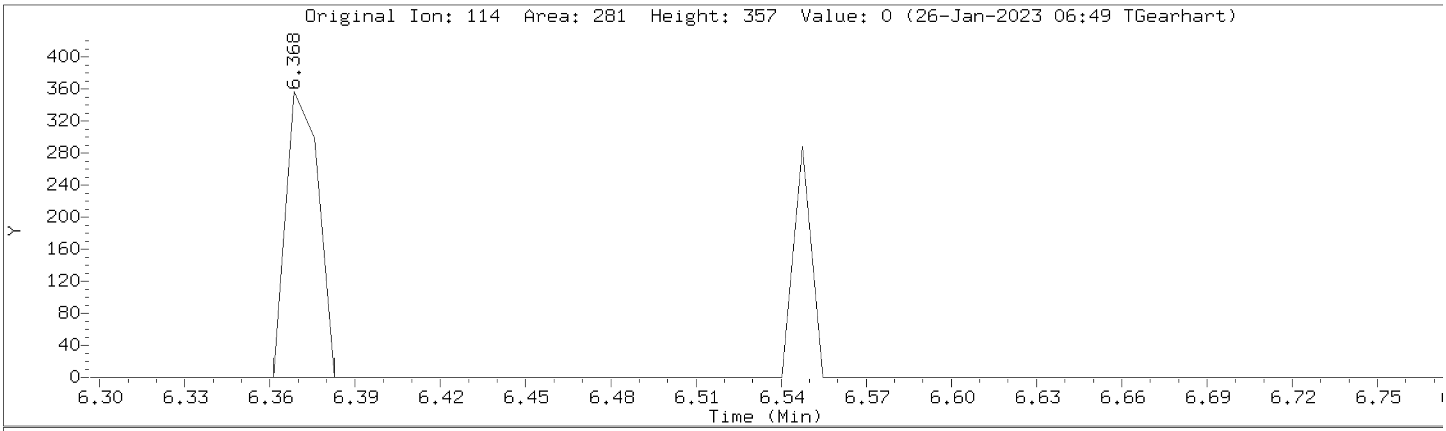

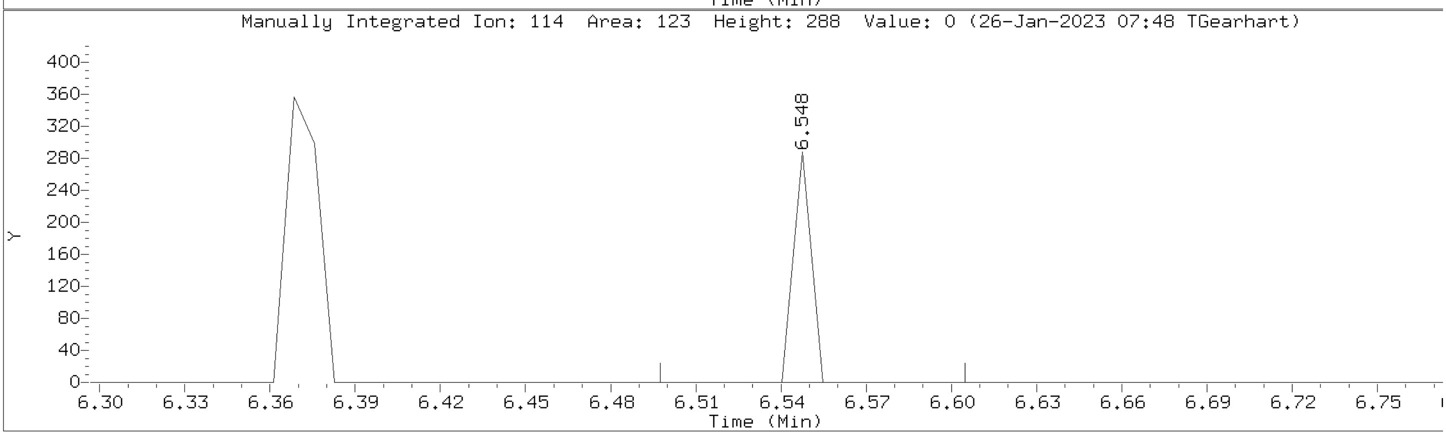

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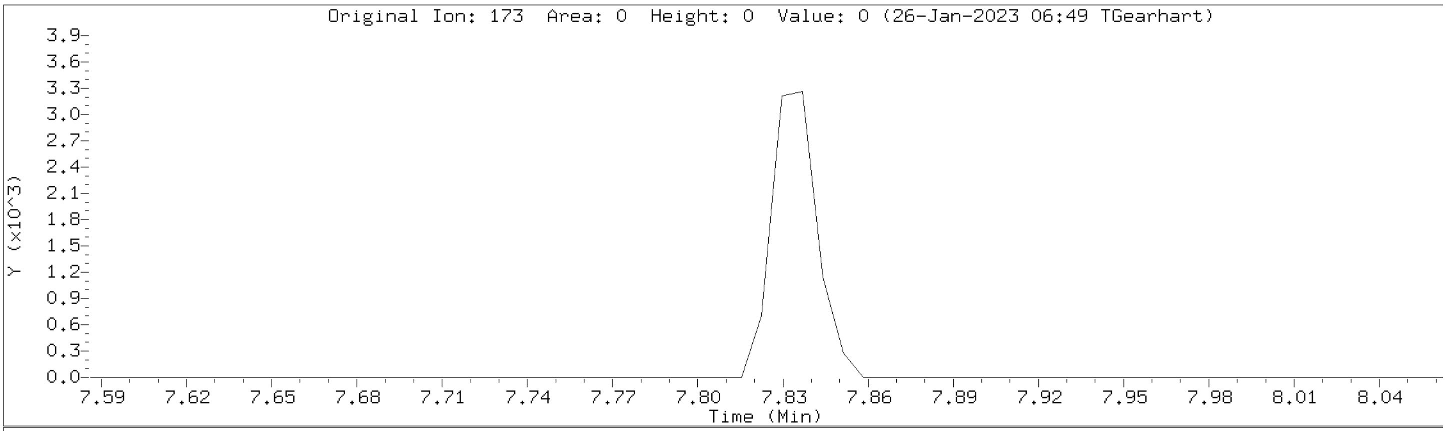
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2

Original Ion: 173 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



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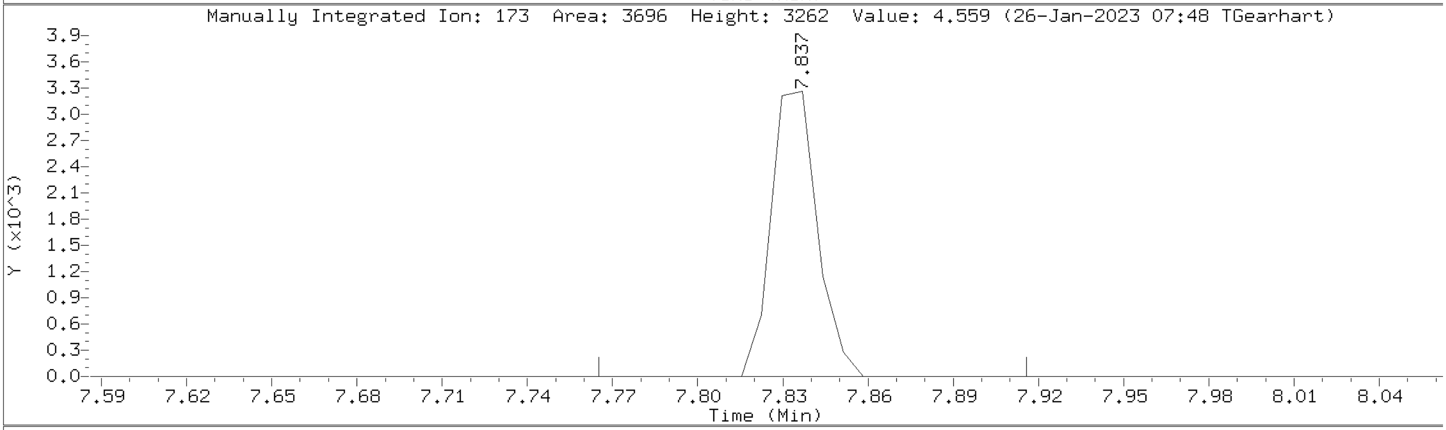
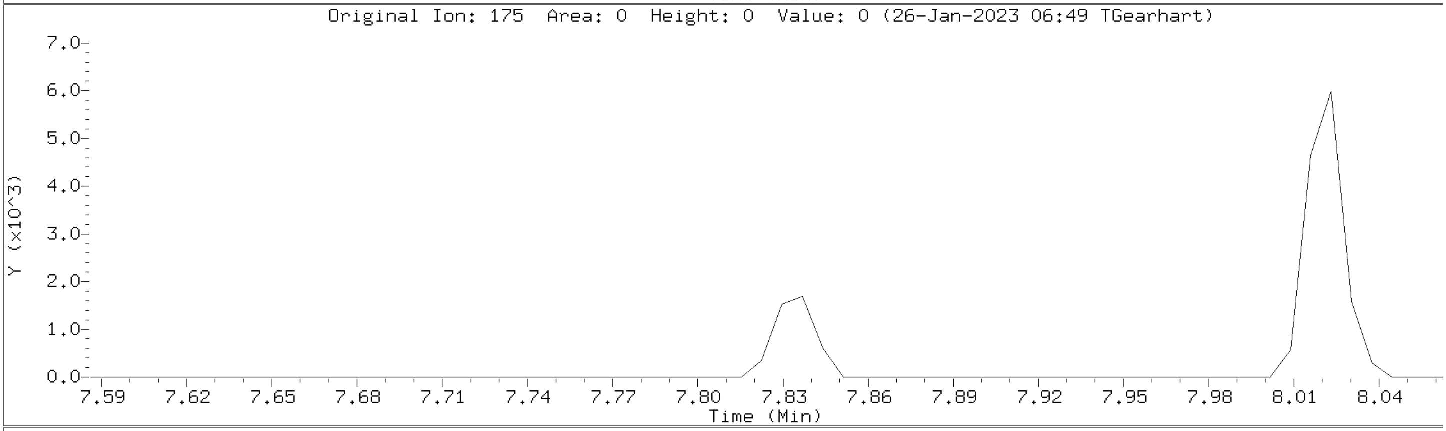


Original Ion: 175 Area: 0 Height: 0 Value: 0 (26-Jan-2023 06:49 TGearhart)



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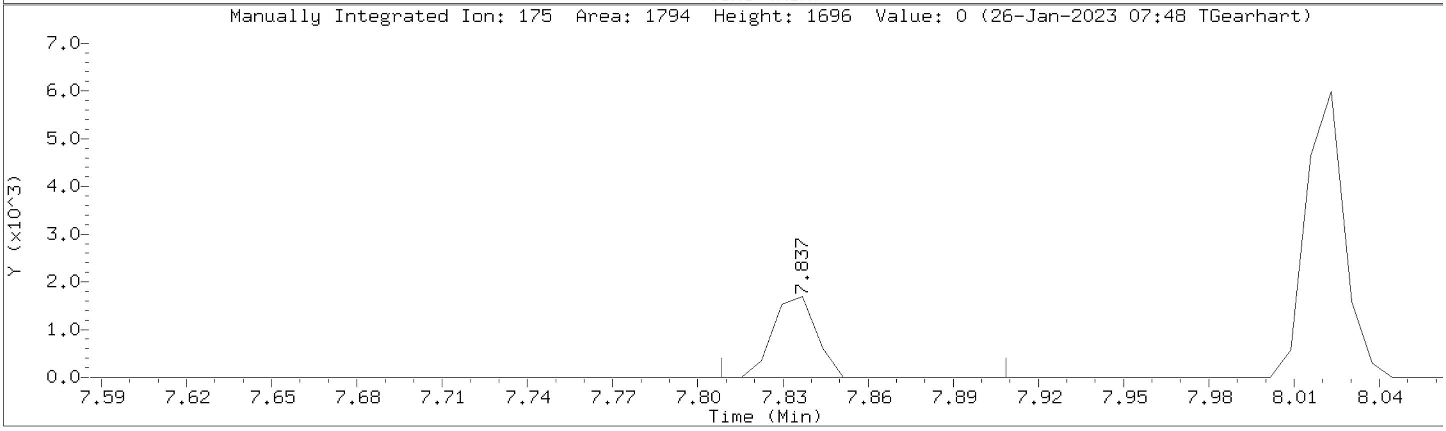

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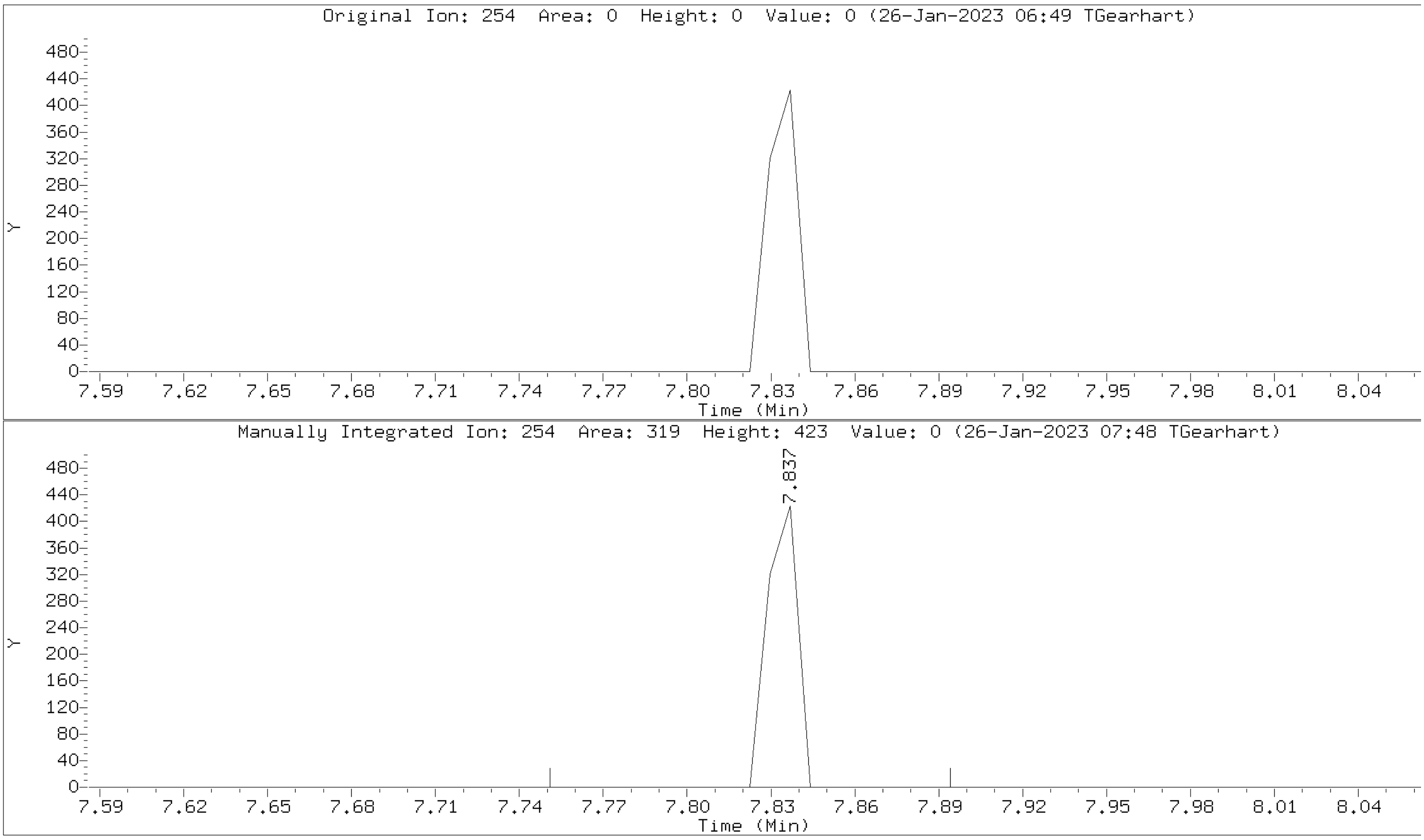
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4



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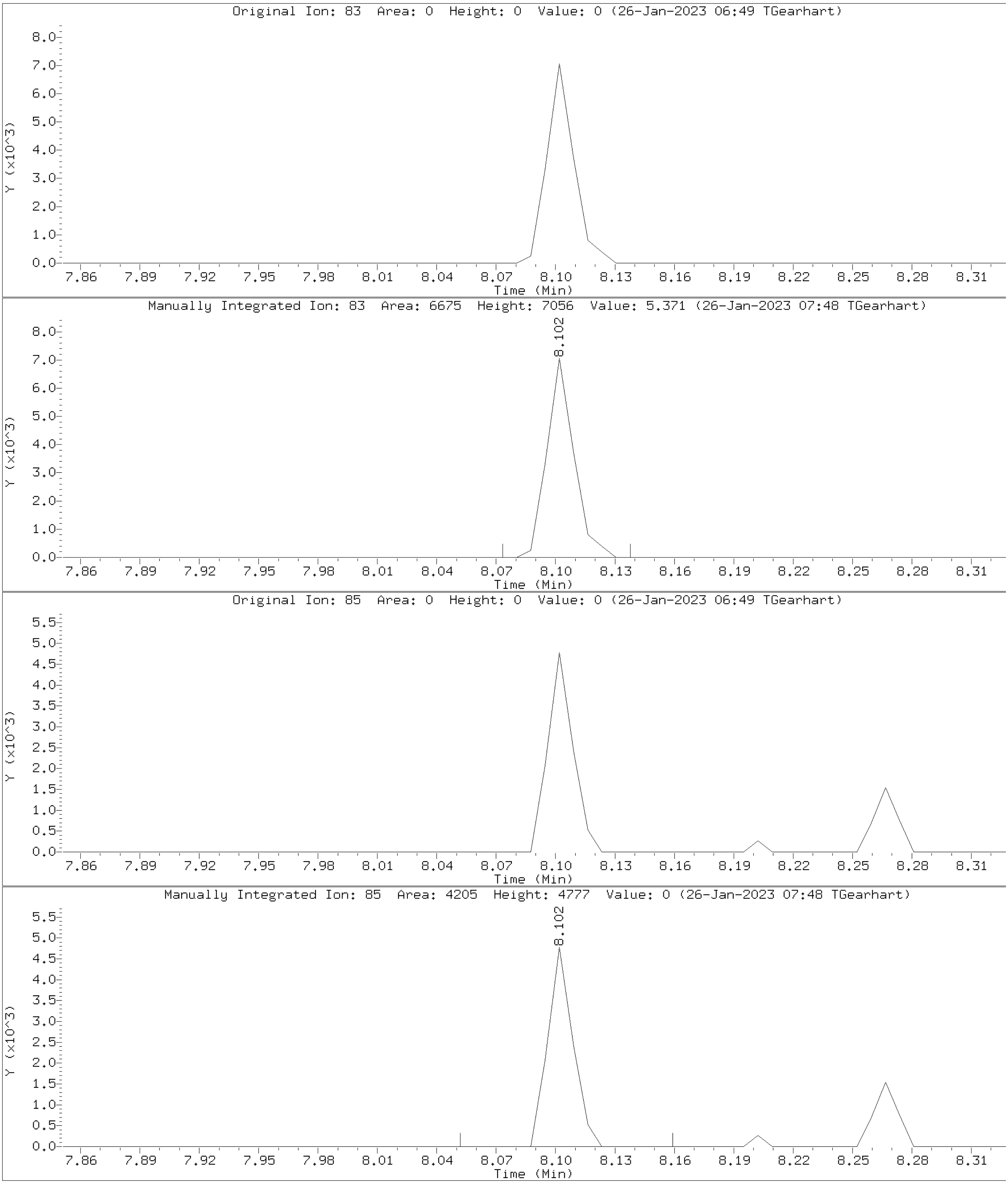
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5



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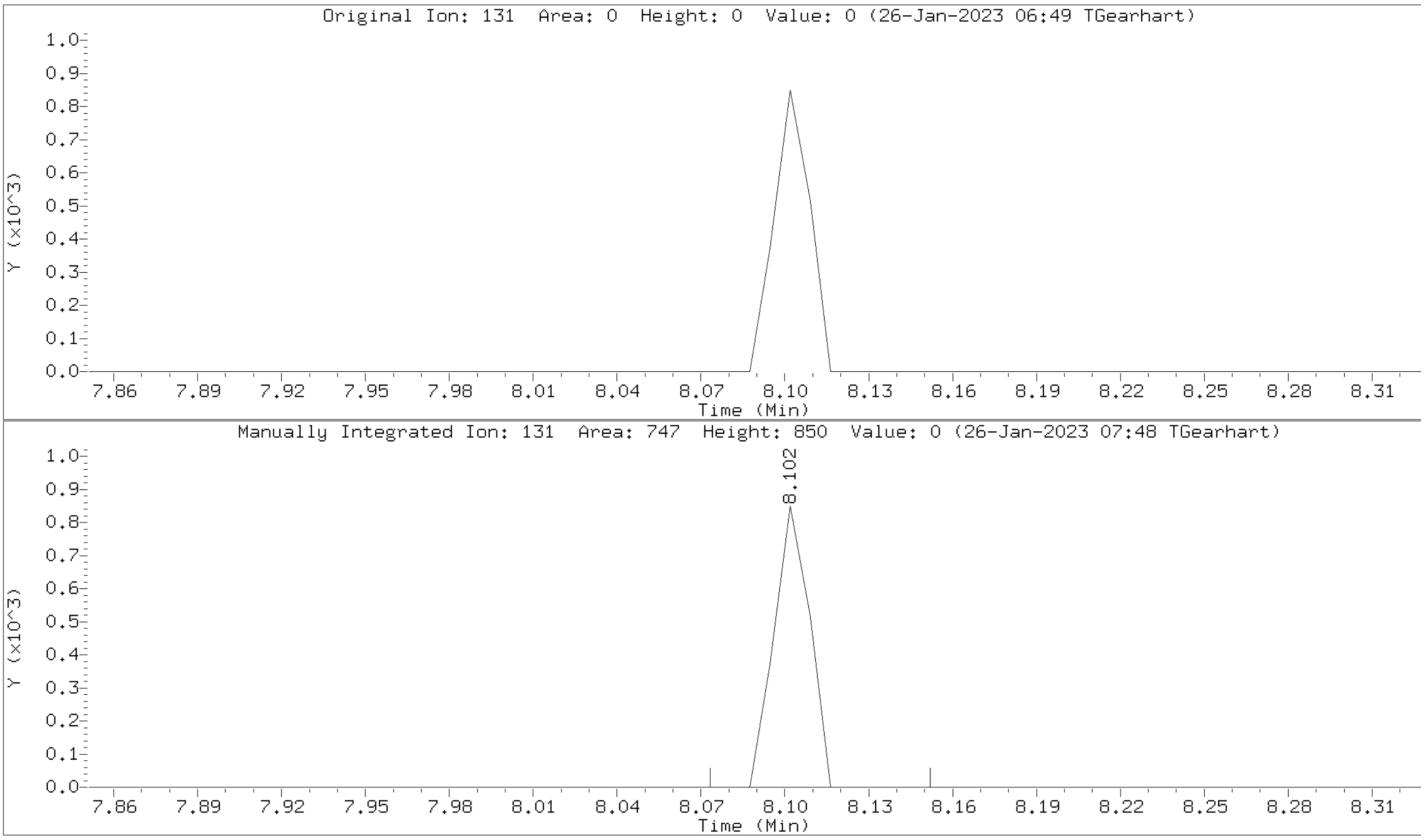
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4



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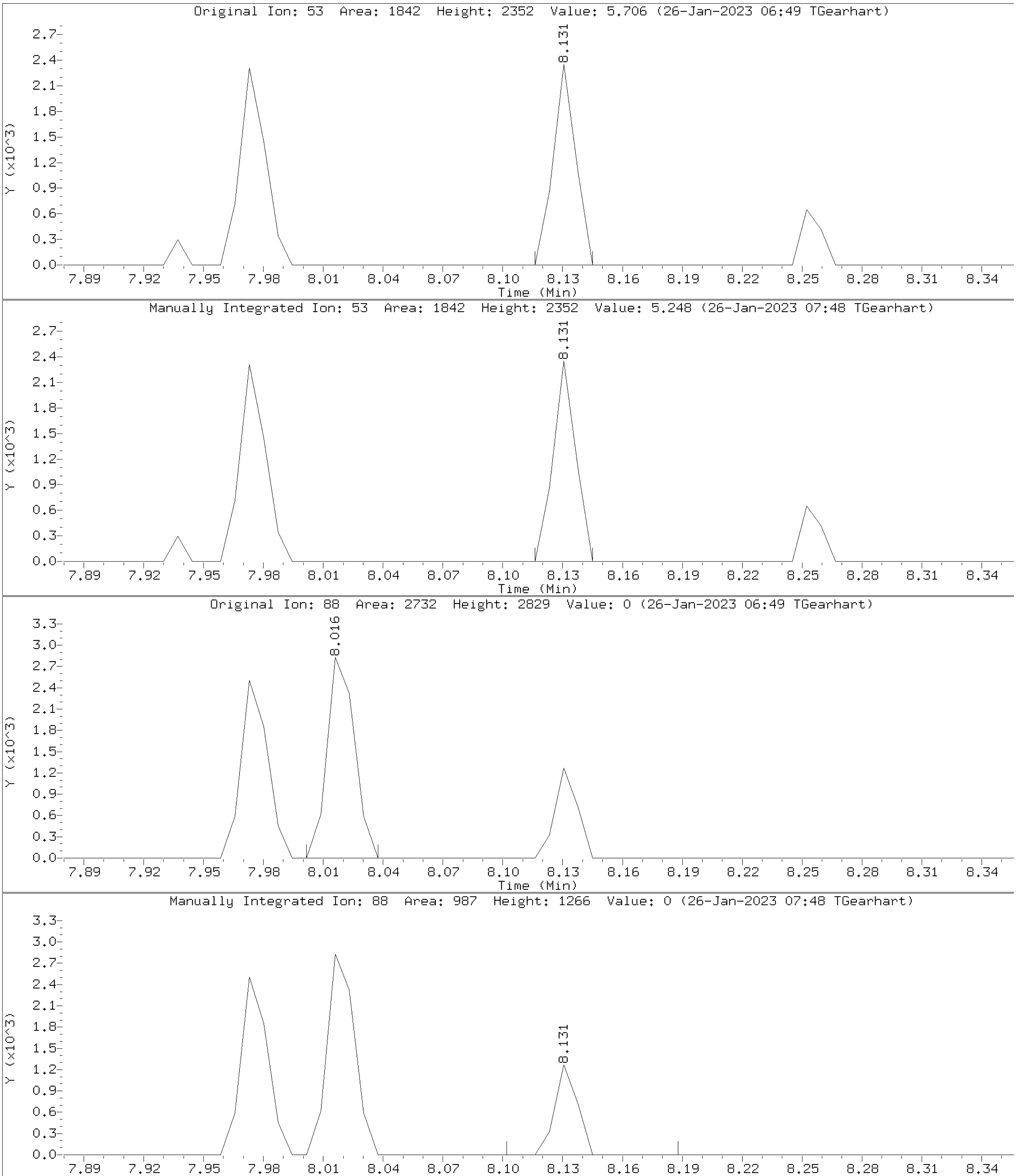
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: trans-1,4-Dichloro-2-butene   Review Code: WP
CAS Number:



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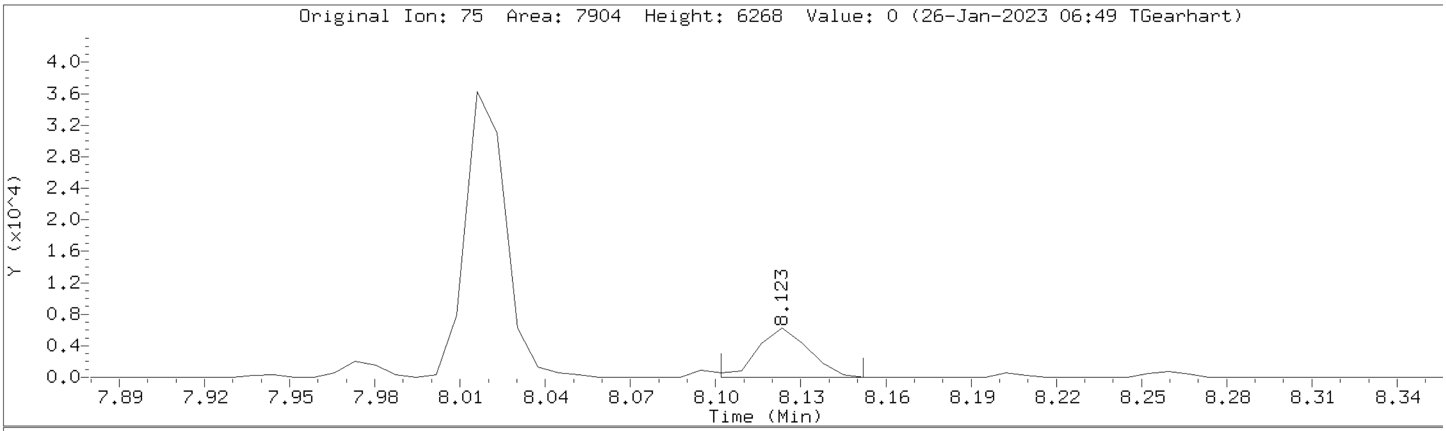
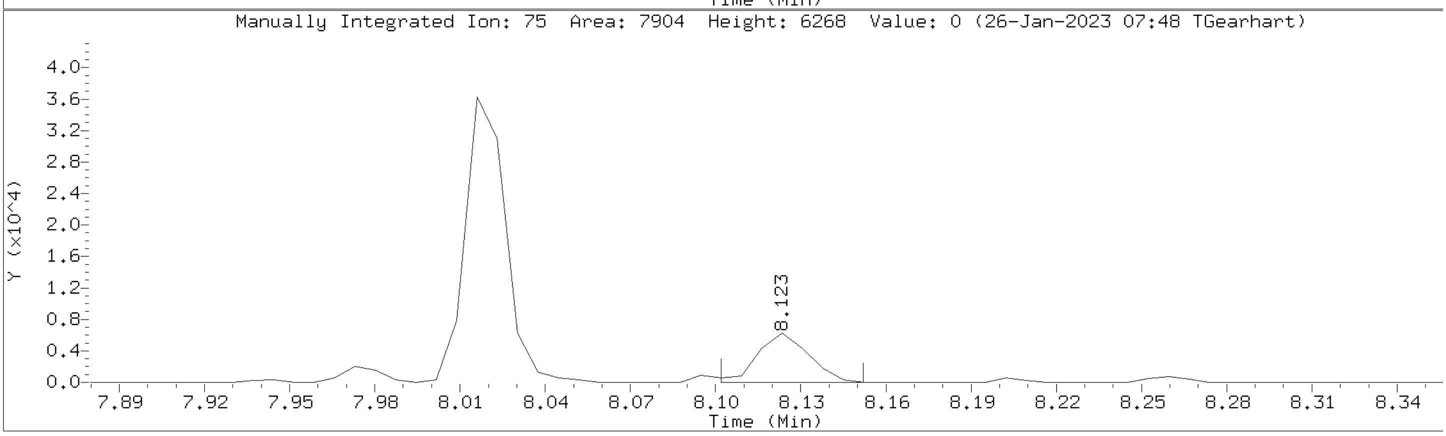
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4





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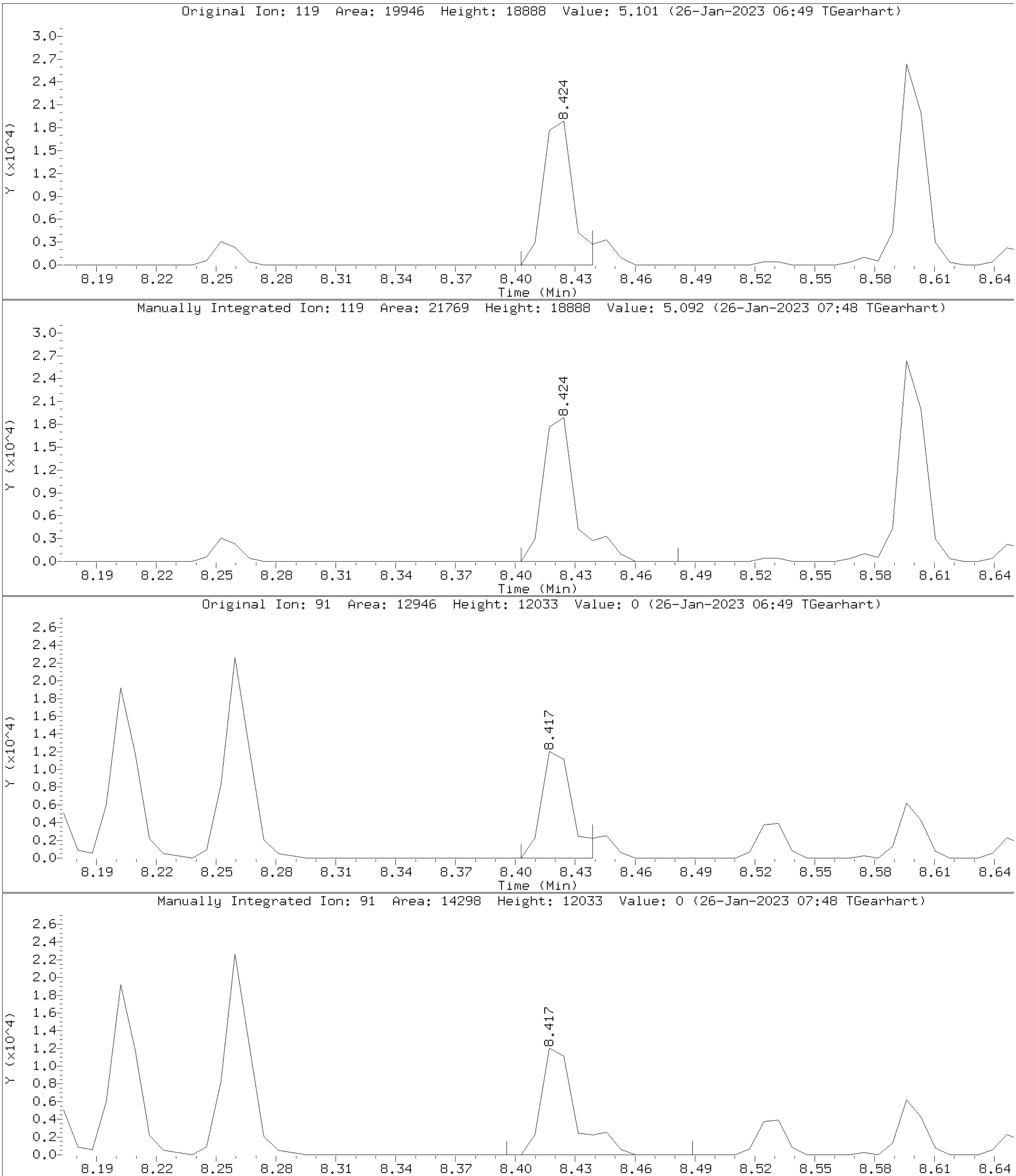
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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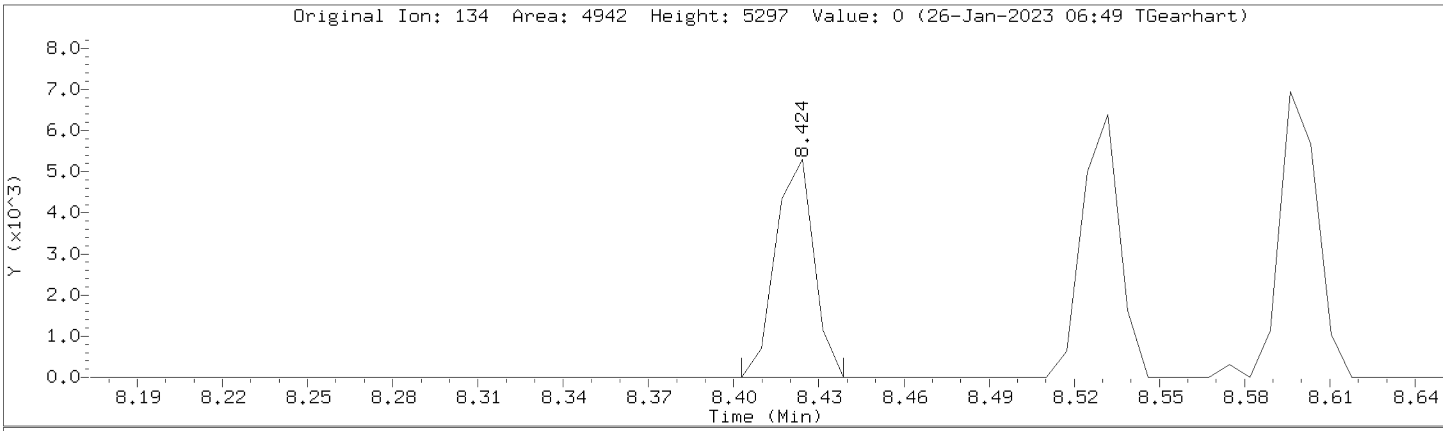
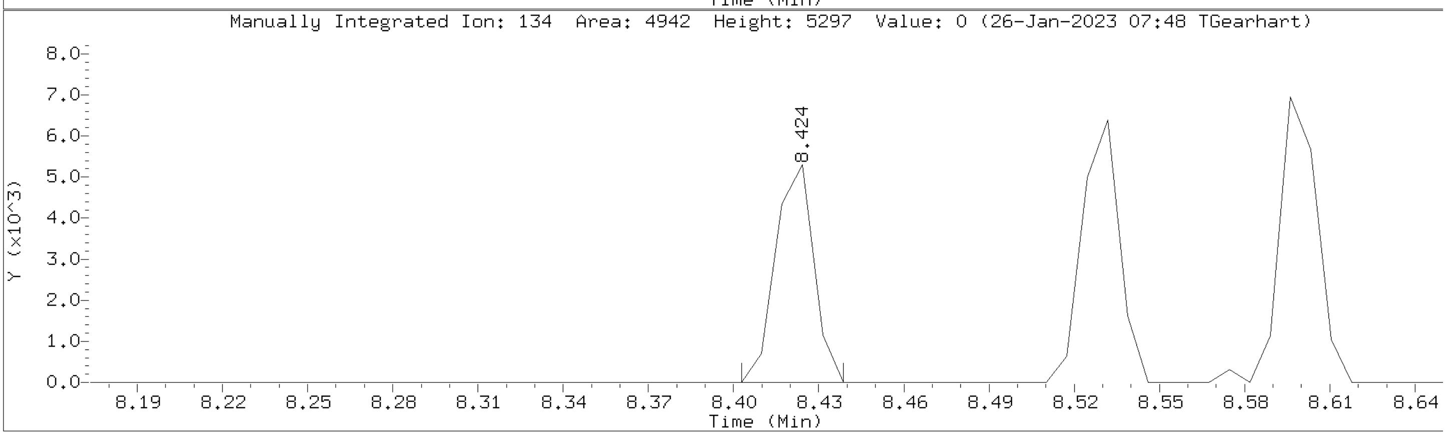
Injection Date: 24-JAN-2023 15:48
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL4





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a09cal5.d
Lab Smp Id: 8260-CAL5 Client Smp ID: 8260-CAL5
Inj Date : 24-JAN-2023 16:17
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal5,336622
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 9 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	0.974	0.975	(0.221)	11909	10.0000	10.9(M)	LT
2 Chloromethane	50	1.132	1.139	(0.257)	7286	10.0000	10.3	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	9761	10.0000	10.6(M)	LT
4 Bromomethane	94	1.275	1.275	(0.289)	7184	10.0000	11.5(M)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	6022	10.0000	10.8	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	15446	10.0000	10.4	
7 Diethyl ether	74	1.590	1.590	(0.361)	5817	10.0000	11.0	
8 Acrolein	56	1.662	1.662	(0.377)	42344	200.000	225	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	10207	10.0000	10.8	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	8752	10.0000	10.7	
11 Acetone	43	1.741	1.740	(0.395)	16114	50.0000	51.2	
12 Iodomethane	142	1.819	1.819	(0.413)	14846	10.0000	10.8	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	23226	10.0000	10.6	
14 Acetonitrile	39	1.927	1.927	(0.437)	8805	50.0000	58.8(M)	GT
15 allyl chloride	41	1.927	1.927	(0.437)	14696	10.0000	11.3(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	40937	50.0000	54.9	
17 Methylene Chloride	84	2.006	2.006	(0.455)	10623	10.0000	10.2	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	5370	50.0000	51.2	
19 Acrylonitrile	53	2.156	2.156	(0.489)	20011	50.0000	55.2	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	29125	10.0000	10.9	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	10035	10.0000	10.8	
22 n-Hexane	57	2.392	2.392	(0.543)	12604	10.0000	10.7	
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	15740	10.0000	10.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.536	2.536	(0.576)	84218	40.0000	44.6	
25 Diisopropyl ether	45	2.557	2.557	(0.581)	25341	10.0000	10.7	
26 chloroprene	53	2.579	2.579	(0.585)	13625	10.0000	10.8	
27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	27495	10.0000	10.8	
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	10978	10.0000	10.6	
29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	13412	10.0000	10.6	
30 2-Butanone	43	3.037	3.037	(0.689)	23660	50.0000	50.0	
31 Propionitrile	54	3.087	3.101	(0.701)	6332	50.0000	54.6	
32 Ethyl Acetate	88	3.109	3.109	(0.706)	2777	50.0000	51.8	
33 Methacrylonitrile	41	3.259	3.259	(0.740)	28813	50.0000	54.6	
34 Bromochloromethane	49	3.274	3.266	(0.743)	6723	10.0000	11.8	
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	16947	50.0000	54.5	
36 Chloroform	83	3.367	3.367	(0.764)	17970	10.0000	10.5	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	55336	50.0000	50.5	
38 1,1,1-Trichloroethane	97	3.589	3.581	(0.815)	15842	10.0000	10.4	
39 Cyclohexane	56	3.660	3.660	(0.831)	13789	10.0000	10.4	
40 Carbon Tetrachloride	117	3.796	3.803	(0.862)	14194	10.0000	10.3	
41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	12544	10.0000	11.0	
42 Isobutyl alcohol	43	3.990	3.990	(0.906)	1245	50.0000	46.8(M)	NI
43 Benzene	78	4.054	4.061	(0.920)	38455	10.0000	10.5	
44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	13279	10.0000	10.4	
45 2,2,4-Trimethylpentane	57	4.412	4.405	(1.002)	11789	10.0000	9.60	
46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	28280	10.0000	10.5	
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	202098	50.0000		
48 Trichloroethene	95	4.835	4.835	(1.098)	10632	10.0000	10.5	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	11781	10.0000	10.5	
50 1,2-Dichloropropane	63	5.079	5.079	(1.153)	8979	10.0000	10.7(M)	NI
51 Dibromomethane	93	5.200	5.200	(1.180)	6527	10.0000	10.9	
52 1,4-Dioxane	88	Compound Not Detected.						
53 Methyl methacrylate	69	5.258	5.258	(1.193)	7981	10.0000	10.6	
54 Bromodichloromethane	83	5.387	5.387	(1.223)	12439	10.0000	10.4	
55 2-Chloroethyl vinyl ether	63	5.738	5.738	(0.785)	34720	50.0000	54.6	
56 cis-1,3-Dichloropropene	75	5.867	5.866	(0.803)	15222	10.0000	10.4	
57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	55409	50.0000	53.6	
$ 58 Toluene-d8	98	6.132	6.131	(0.839)	202133	50.0000	50.0	
59 Toluene	91	6.196	6.203	(0.848)	45927	10.0000	10.4	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	14548	10.0000	10.6	
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	13897	10.0000	10.4	
62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	7534	10.0000	10.4	
63 Tetrachloroethene	166	6.697	6.697	(0.917)	14053	10.0000	10.3	
64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	15249	10.0000	10.4	
65 2-Hexanone	43	6.812	6.812	(0.932)	42569	50.0000	54.8	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	11127	10.0000	10.2	
67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	10474	10.0000	10.9	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	159175	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	31423	10.0000	10.4	
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	11186	10.0000	10.4	
71 Ethylbenzene	106	7.407	7.407	(1.014)	16794	10.0000	10.4	
72 m&p-Xylene	106	7.485	7.485	(1.025)	21022	10.0000	10.4	
73 o-Xylene	106	7.722	7.722	(1.057)	20143	10.0000	10.5	
74 Styrene	104	7.729	7.736	(1.058)	34868	10.0000	10.6	
75 Bromoform	173	7.836	7.836	(0.910)	8145	10.0000	8.95(M)	NI
76 Isopropylbenzene	105	7.937	7.937	(1.086)	54631	10.0000	10.6	
$ 77 4-Bromofluorobenzene	95	8.016	8.015	(1.097)	77293	50.0000	50.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	19283	10.0000	10.6	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	13842	10.0000	11.0	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	4860	10.0000	10.6	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	3870	10.0000	10.4	
82 n-Propylbenzene	91	8.159	8.159	(0.948)	62276	10.0000	10.8	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	35855	10.0000	10.7	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	45531	10.0000	10.8	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	13764	10.0000	10.9	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	46135	10.0000	10.6(M)	LT
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	46144	10.0000	10.7	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	56108	10.0000	10.8	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	25995	10.0000	10.4	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	49776	10.0000	10.8	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	86573	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	25995	10.0000	10.6	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	43057	10.0000	10.6	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	39312	10.0000	10.7	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	23347	10.0000	10.5	
96 Hexachloroethane	201	8.925	8.925	(1.037)	7136	10.0000	10.3	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	3000	10.0000	9.41	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	13573	10.0000	10.2	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	6655	10.0000	10.2	
100 Naphthalene	128	9.627	9.627	(1.118)	37052	10.0000	10.7	
101 1,2,3-Trichlorobenzene	180	9.728	9.727	(1.130)	11363	10.0000	10.8	
102 2,methyl-naphthalene	142	10.121	10.129	(1.176)	11886	10.0000	10.1	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	10548	10.0000	10.5	

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).
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a09cal5.d

Date : 24-JAN-2023 16:17

Client ID: 8260-CAL5

Instrument: 50mv2a.i

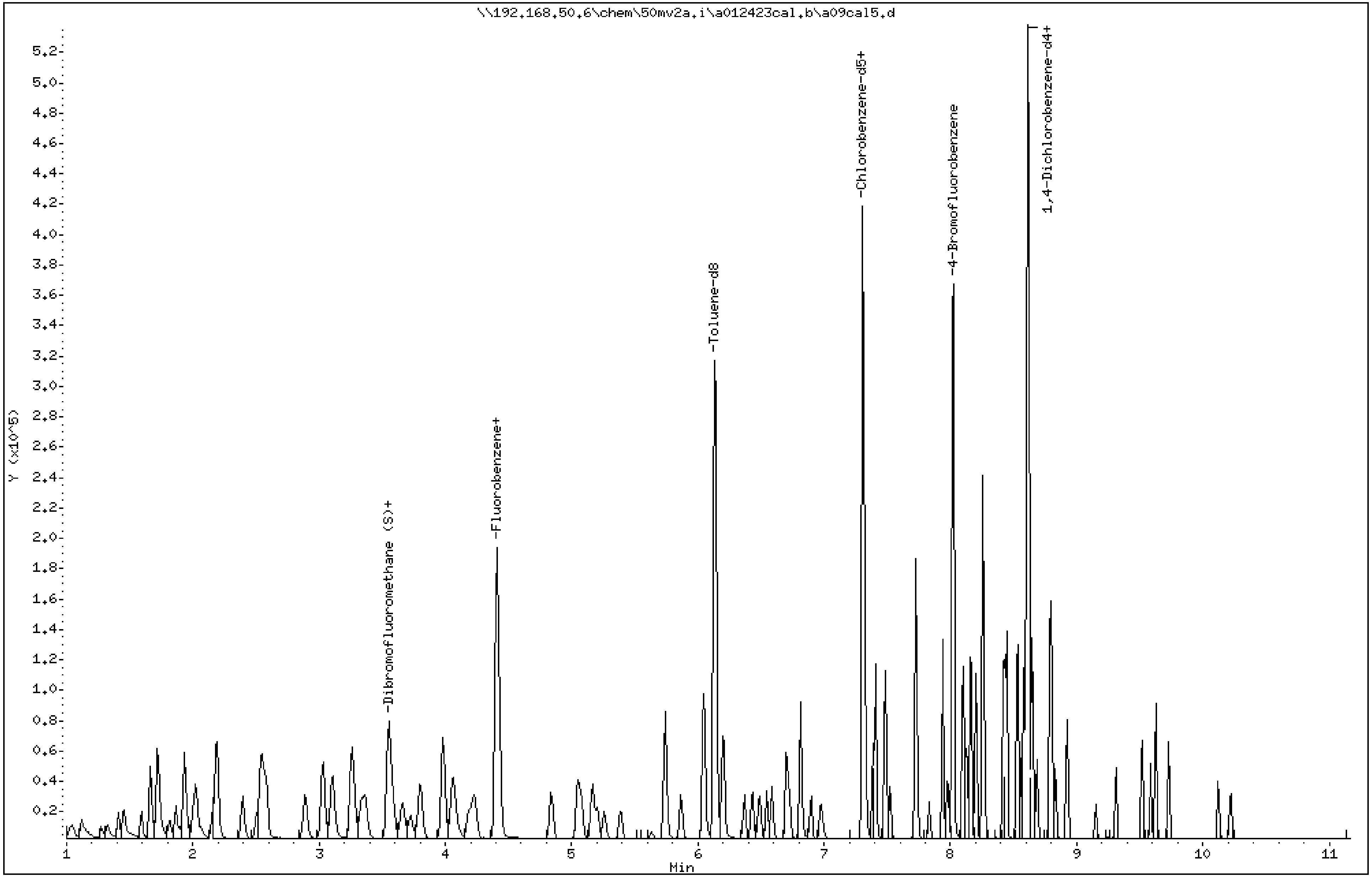
Sample Info: 8260-CAL5,336622

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a09cal5.d

Date : 24-JAN-2023 16:17

Client ID: 8260-CAL5

Instrument: 50mv2a.i

Sample Info: 8260-CAL5,336622

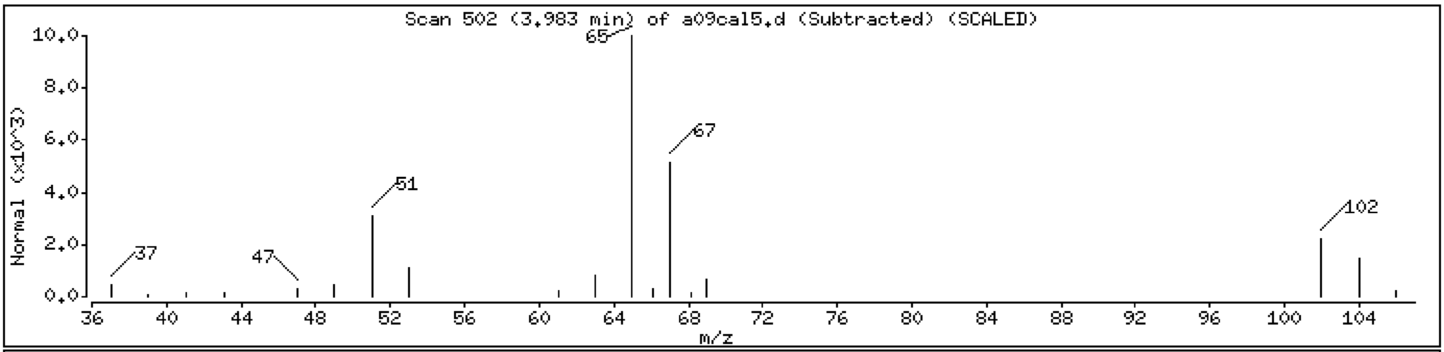
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

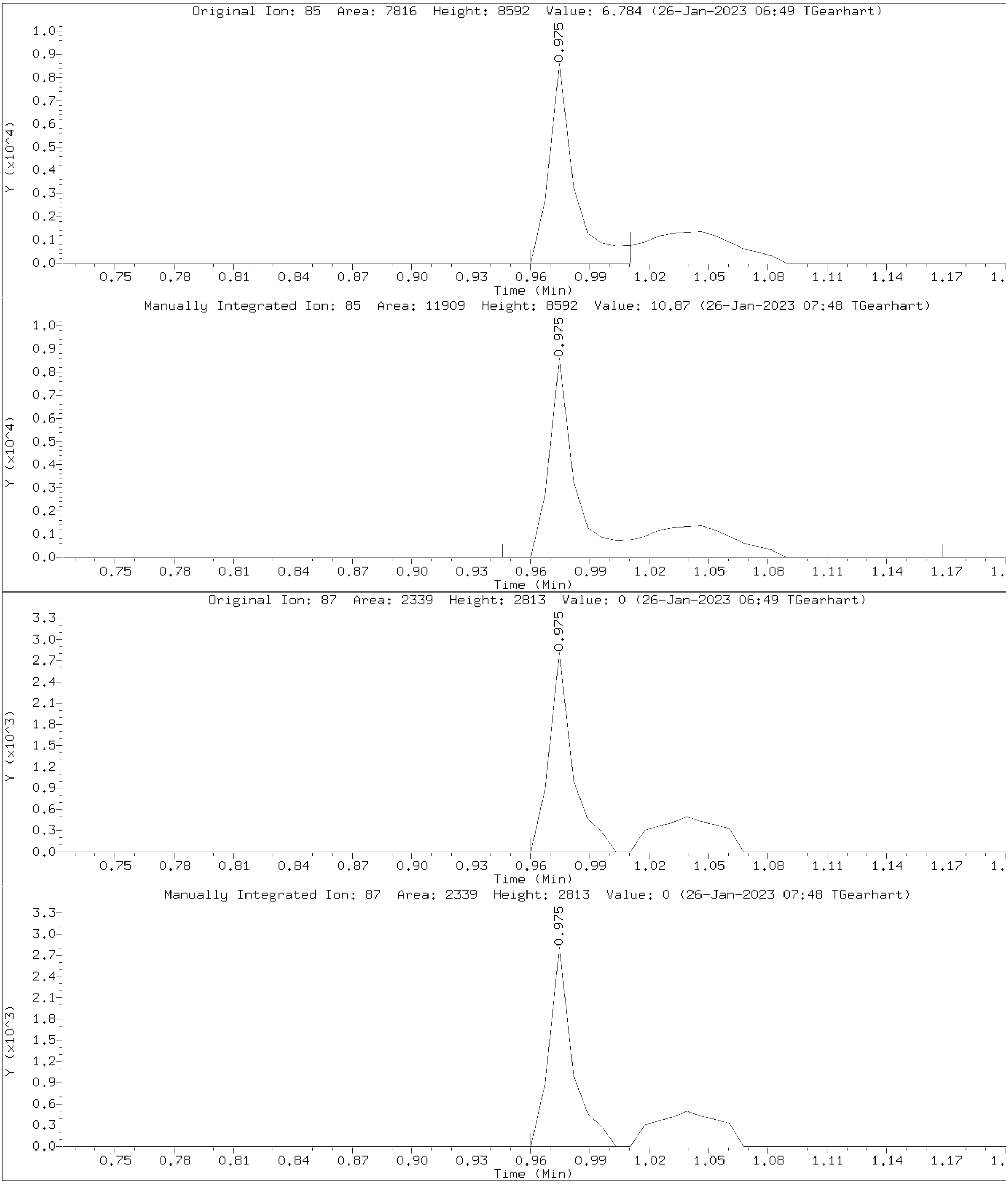
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a09cal5.d
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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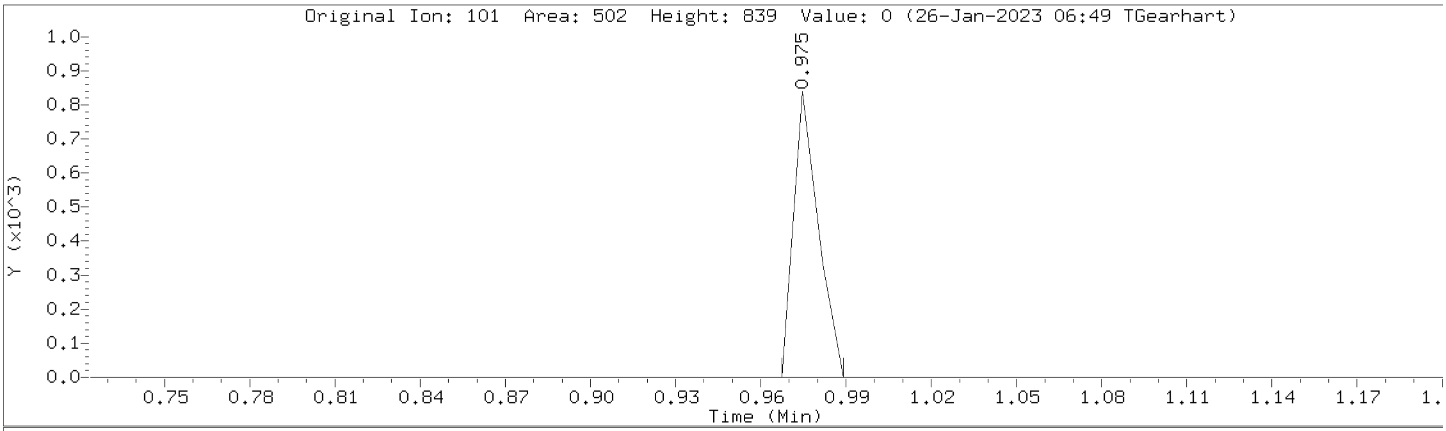
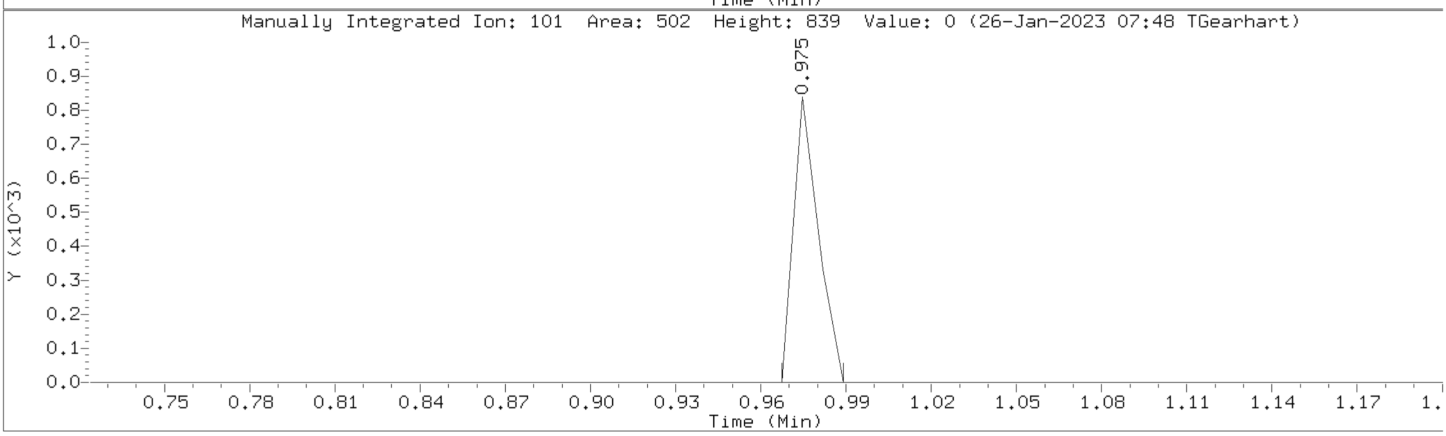
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5





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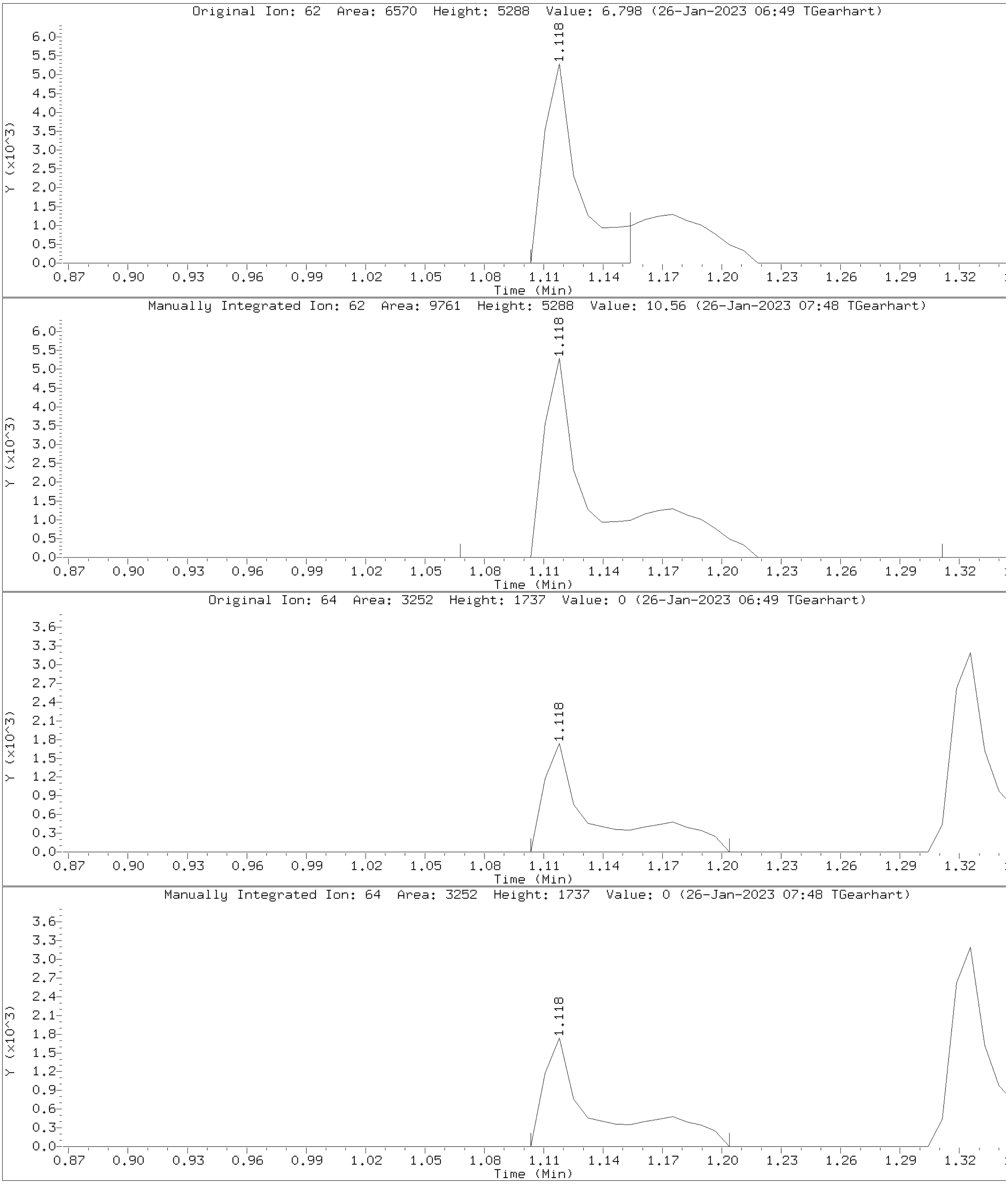
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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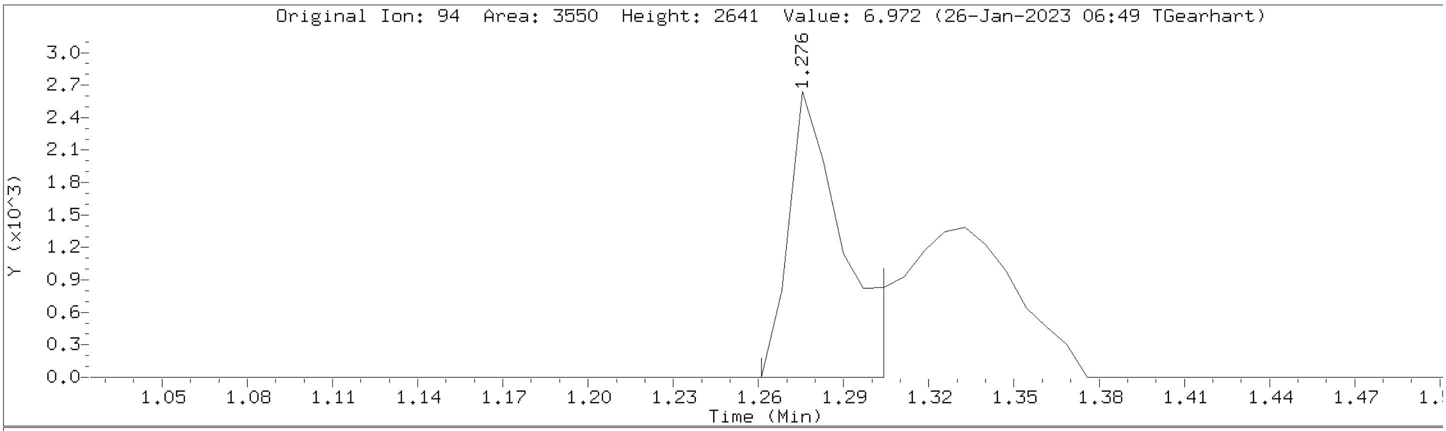
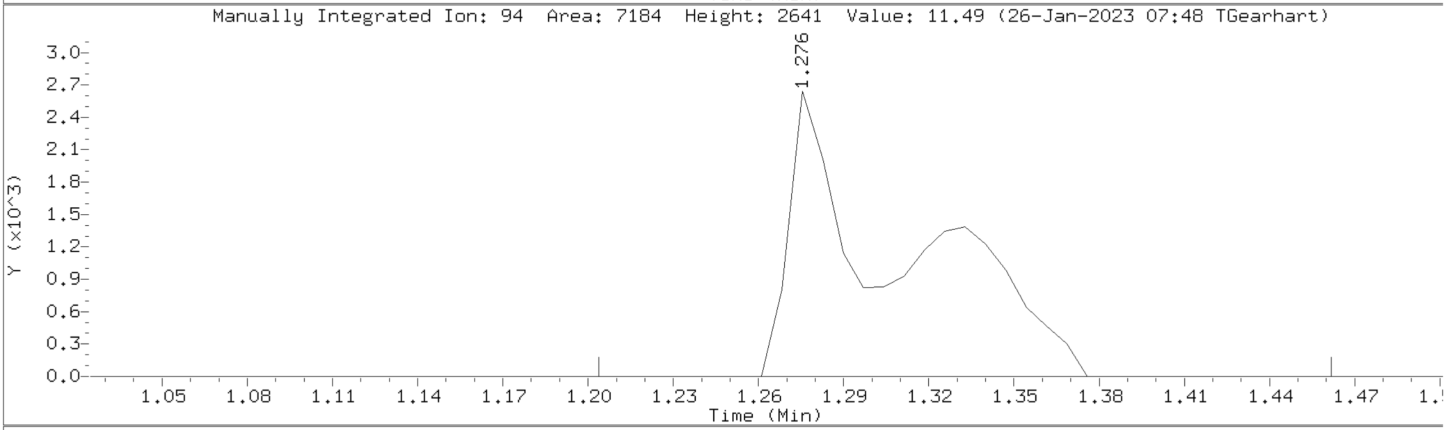
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

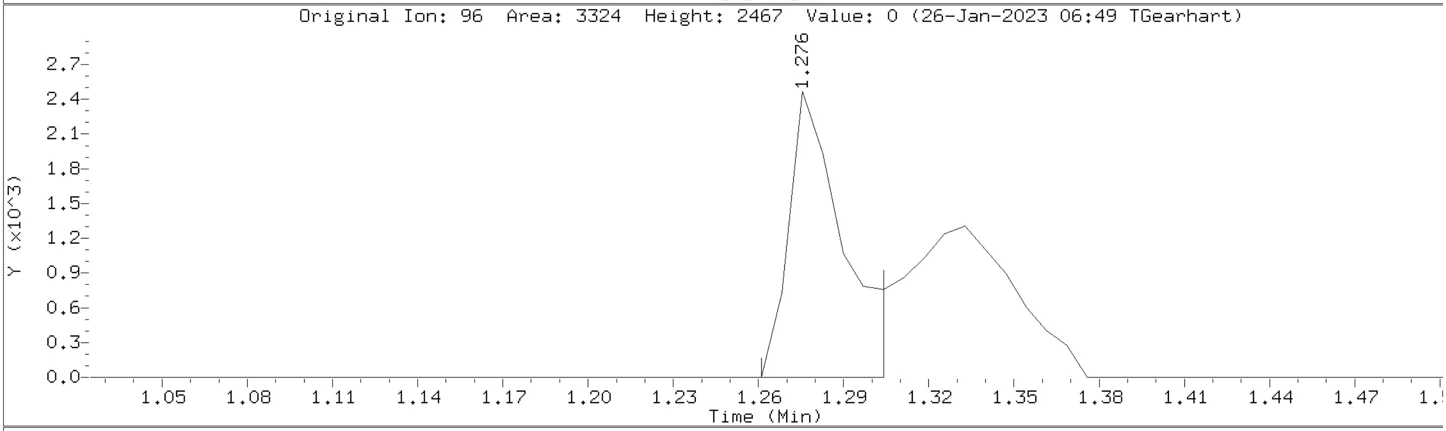
Original Ion: 94 Area: 3550 Height: 2641 Value: 6.972 (26-Jan-2023 06:49 TGearhart)



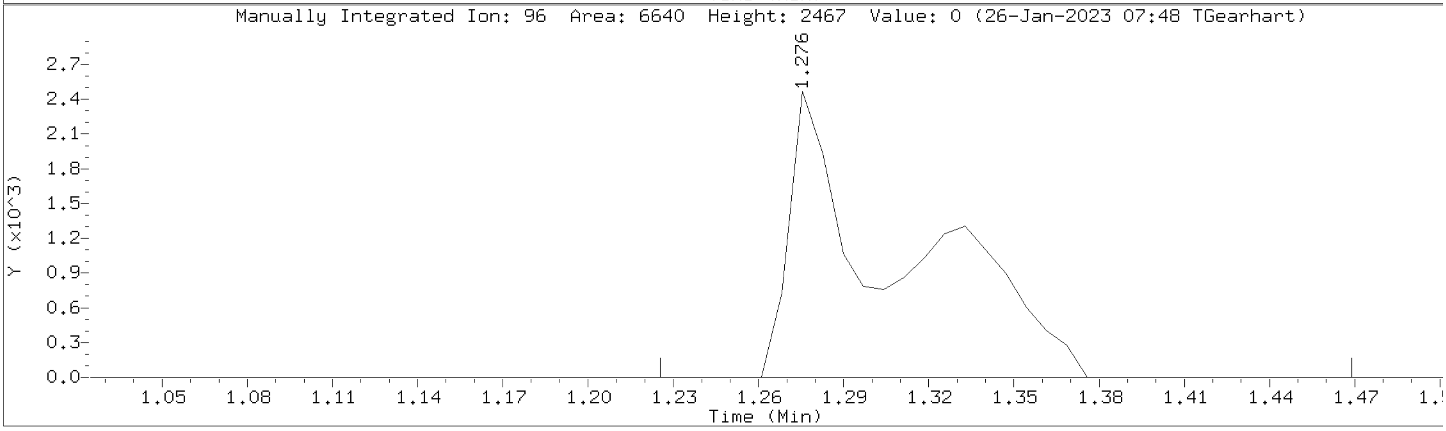
Manually Integrated Ion: 94 Area: 7184 Height: 2641 Value: 11.49 (26-Jan-2023 07:48 TGearhart)



Original Ion: 96 Area: 3324 Height: 2467 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 96 Area: 6640 Height: 2467 Value: 0 (26-Jan-2023 07:48 TGearhart)



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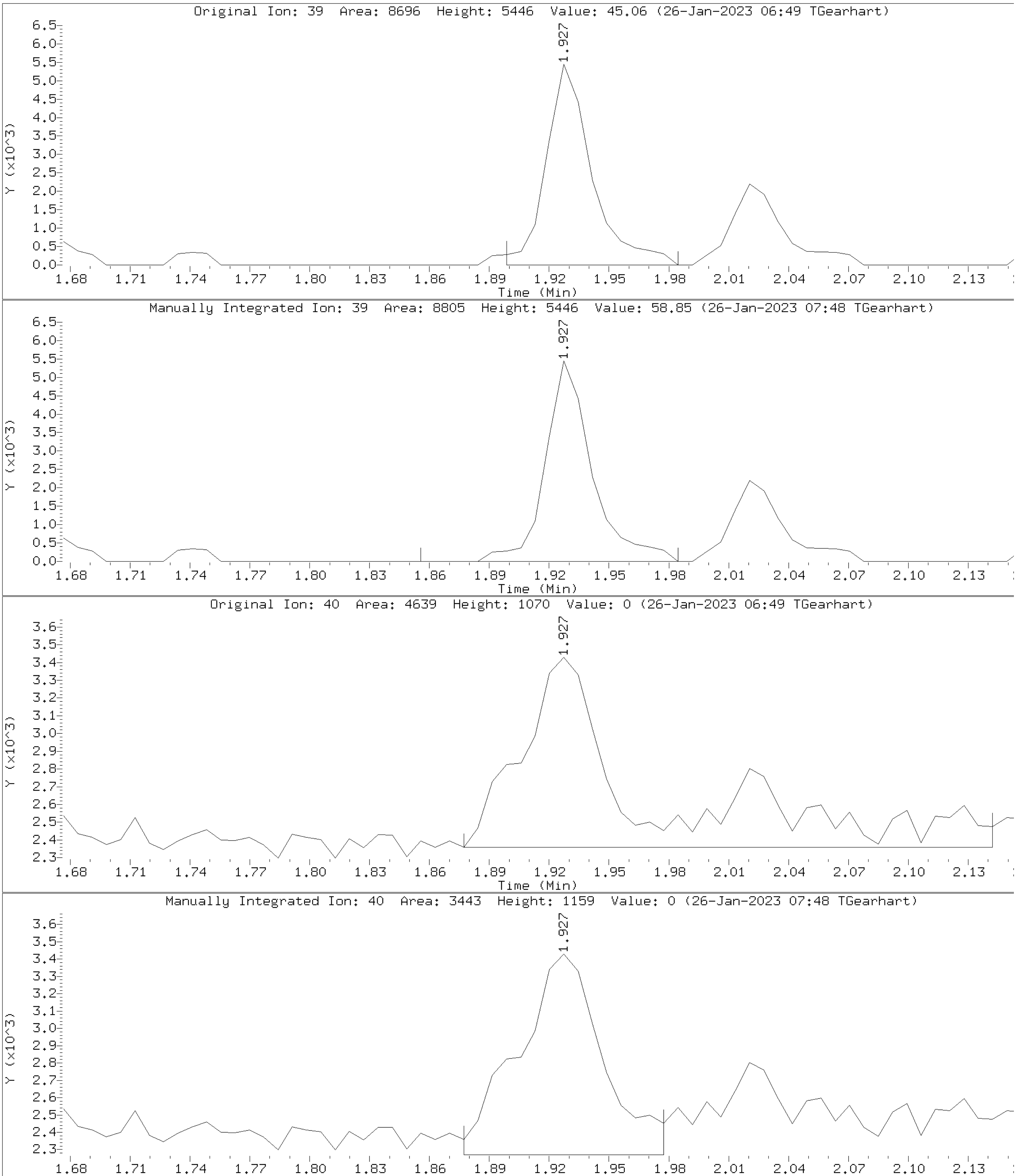
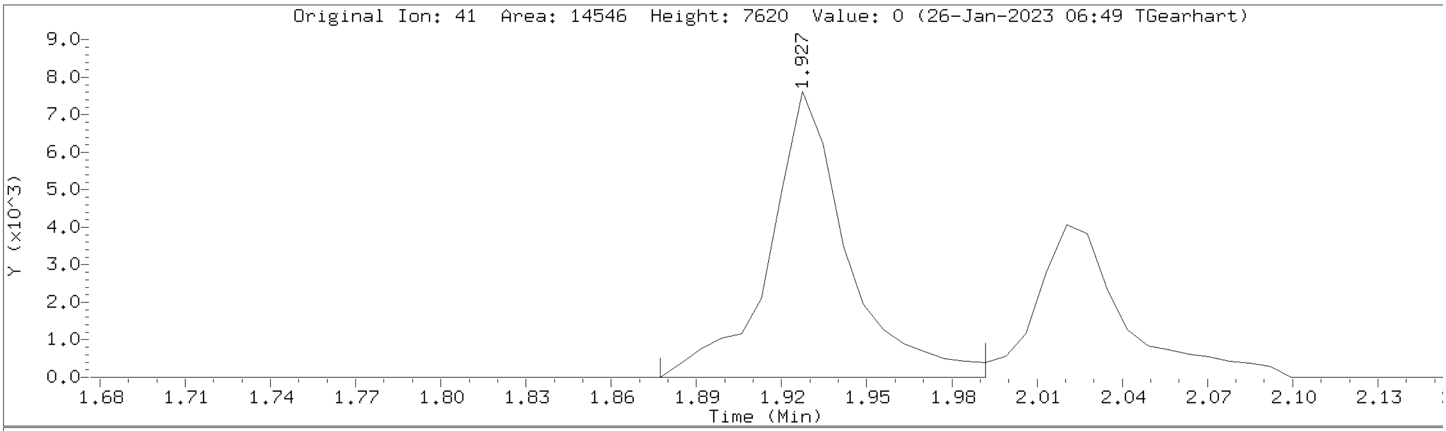
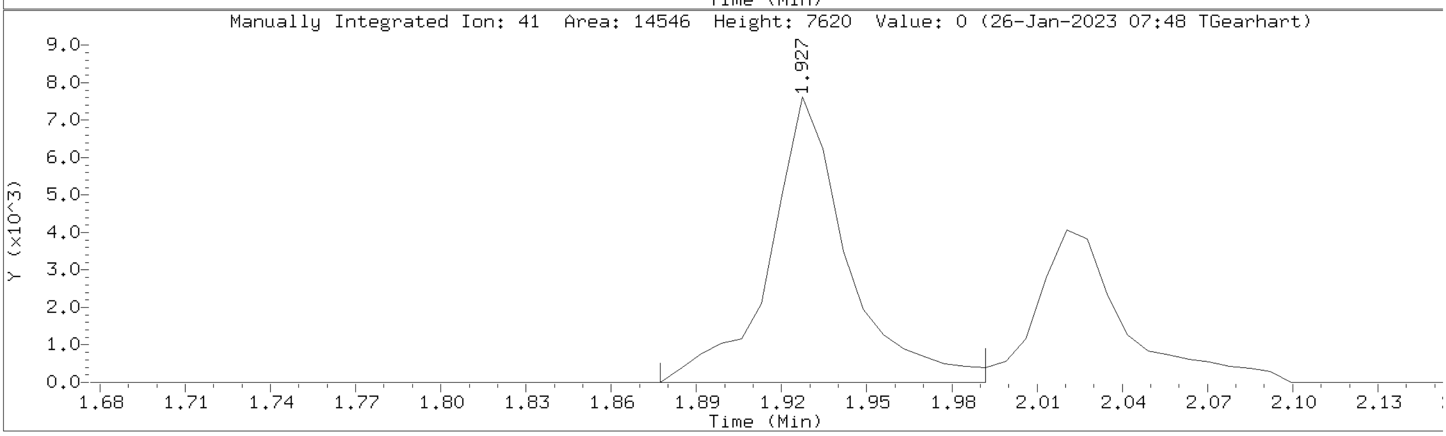
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a09cal5.d
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5





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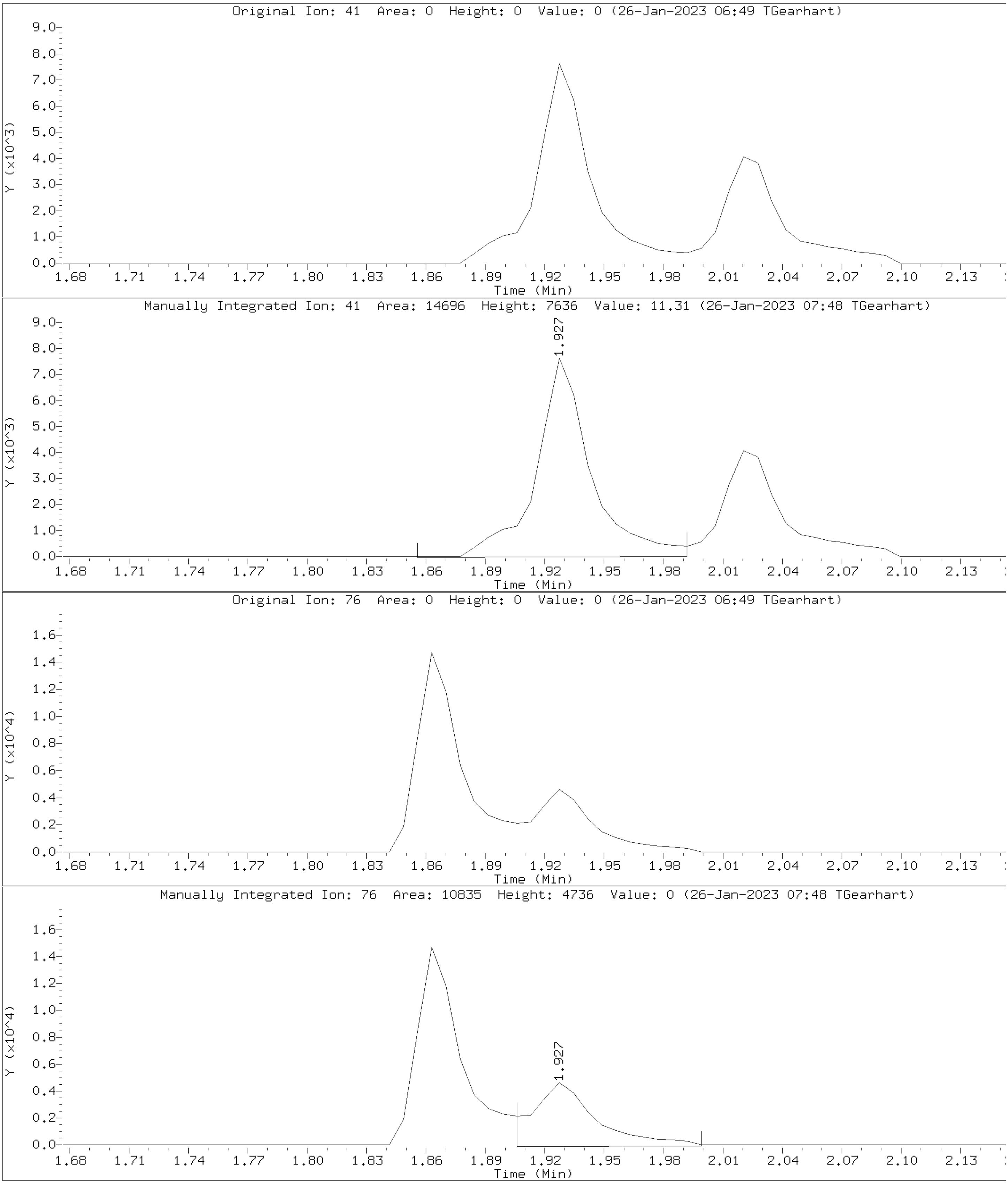
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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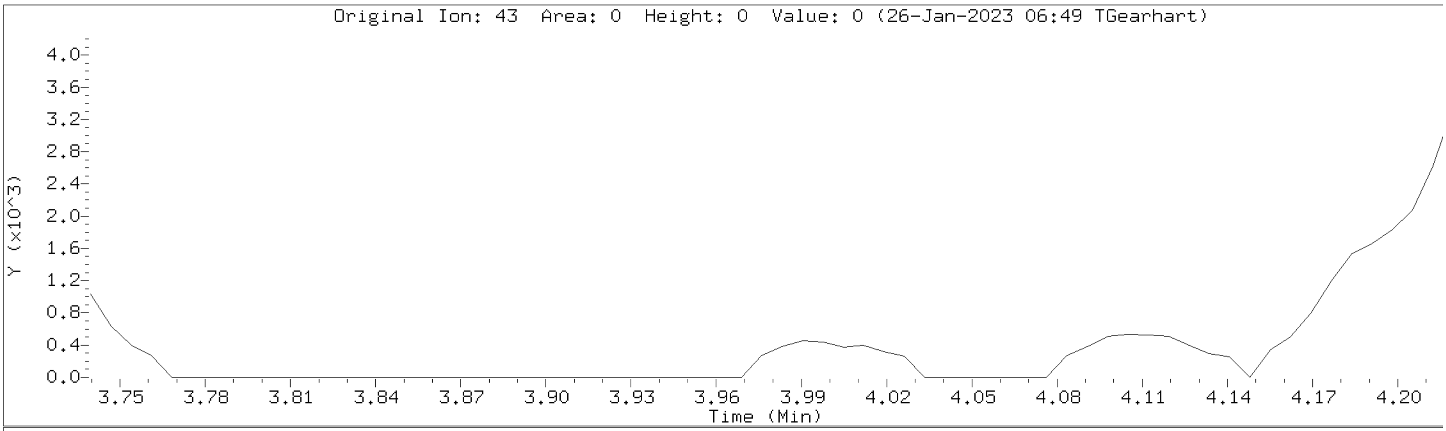
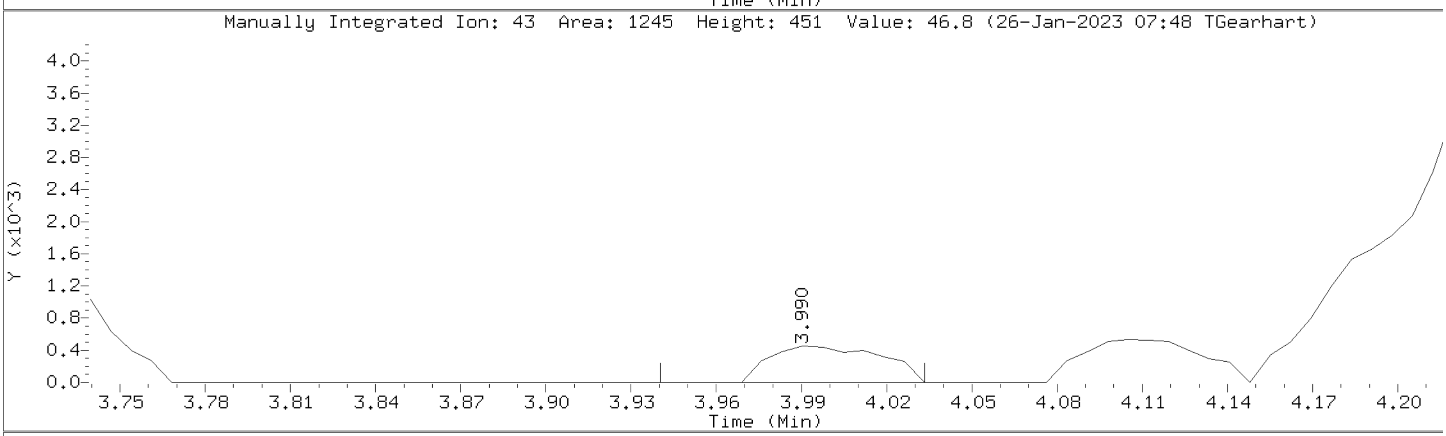
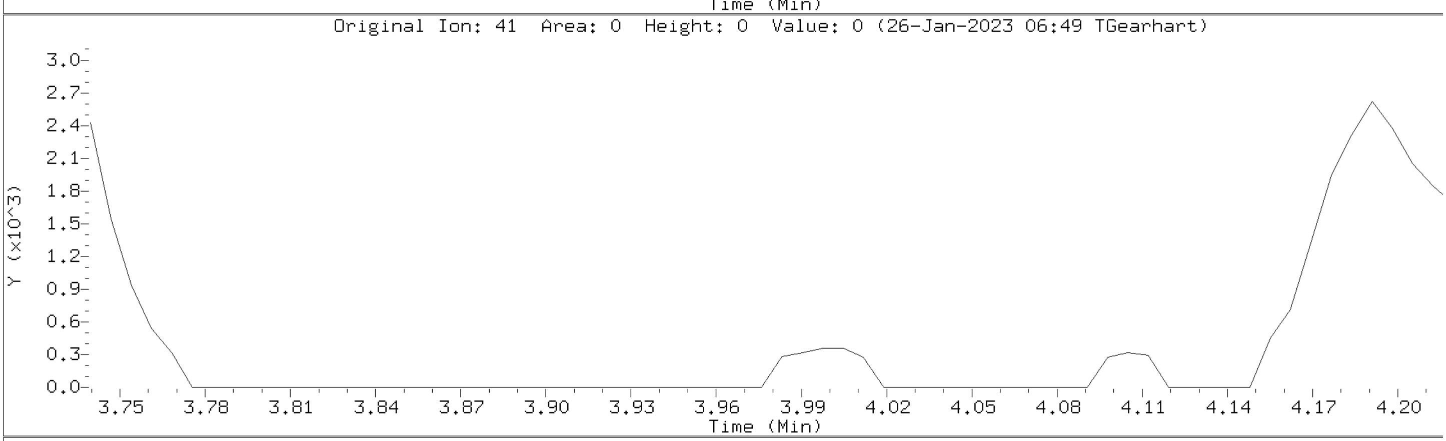
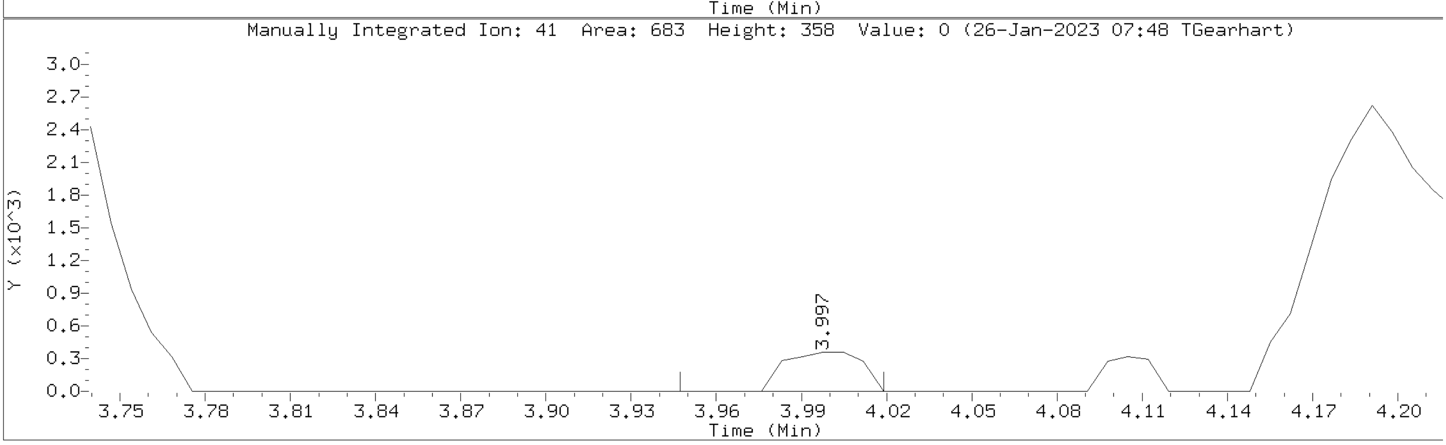
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Isobutyl alcohol   Review Code: NI
CAS Number: 78-83-1









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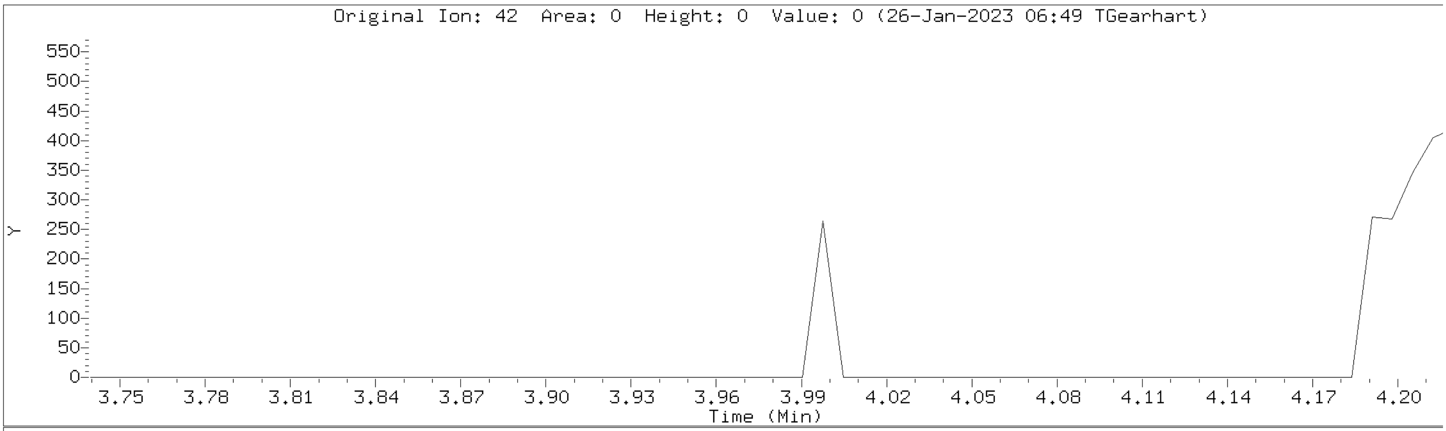
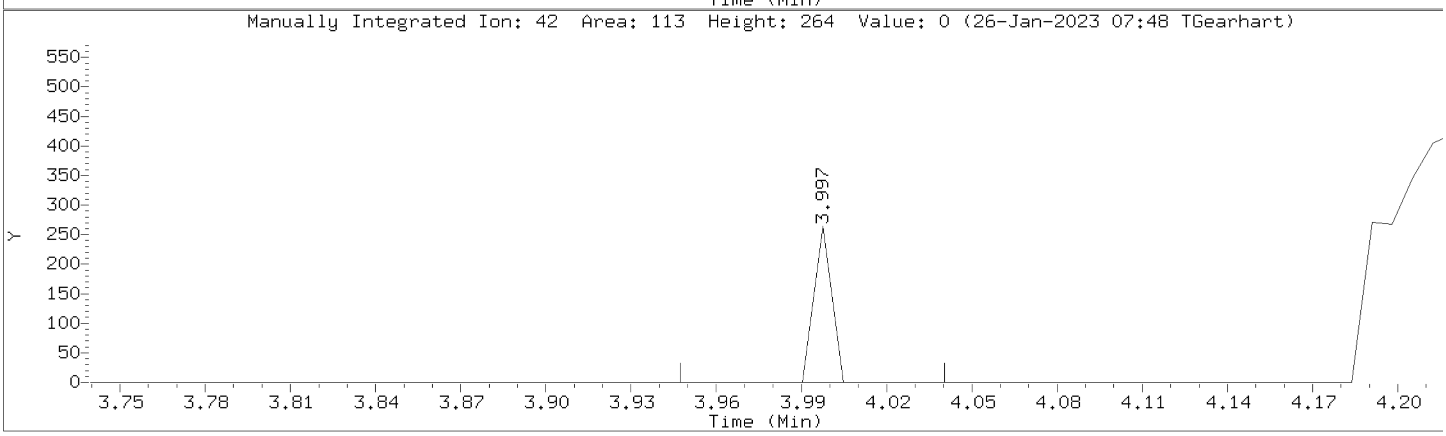
Lab Sample ID: 8260-CAL5





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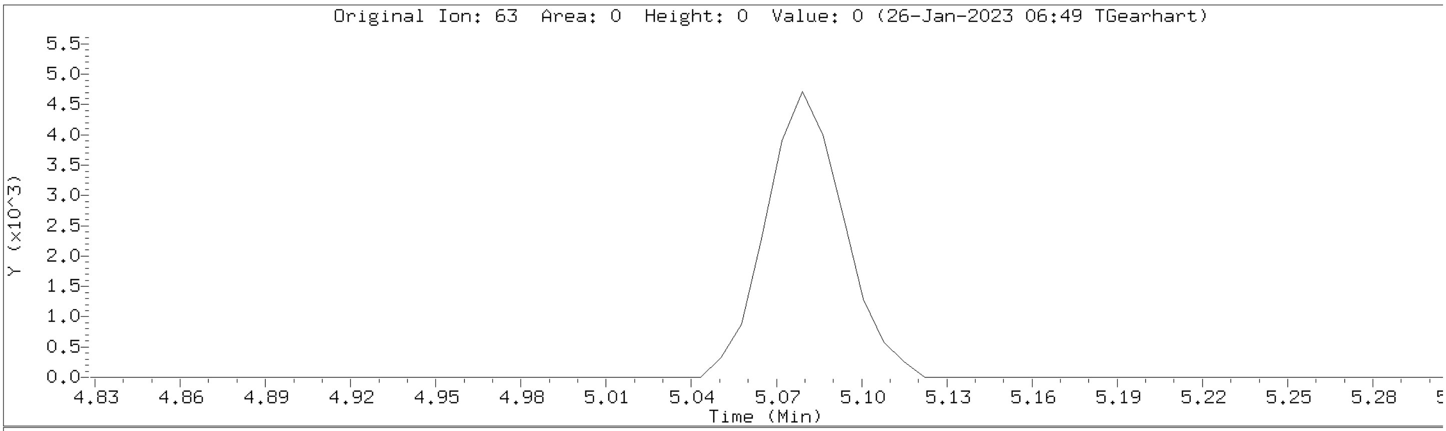
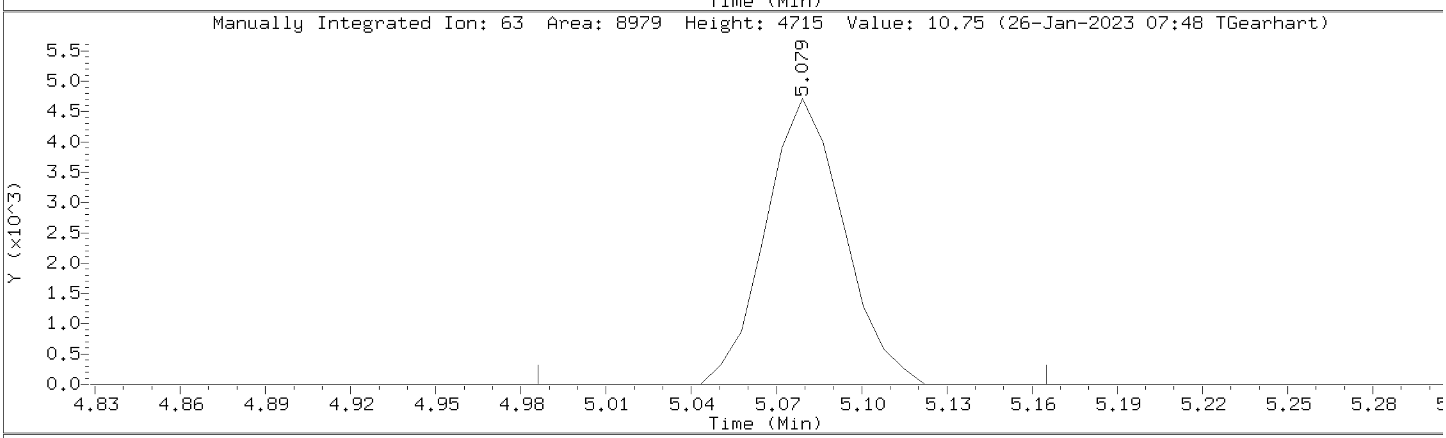
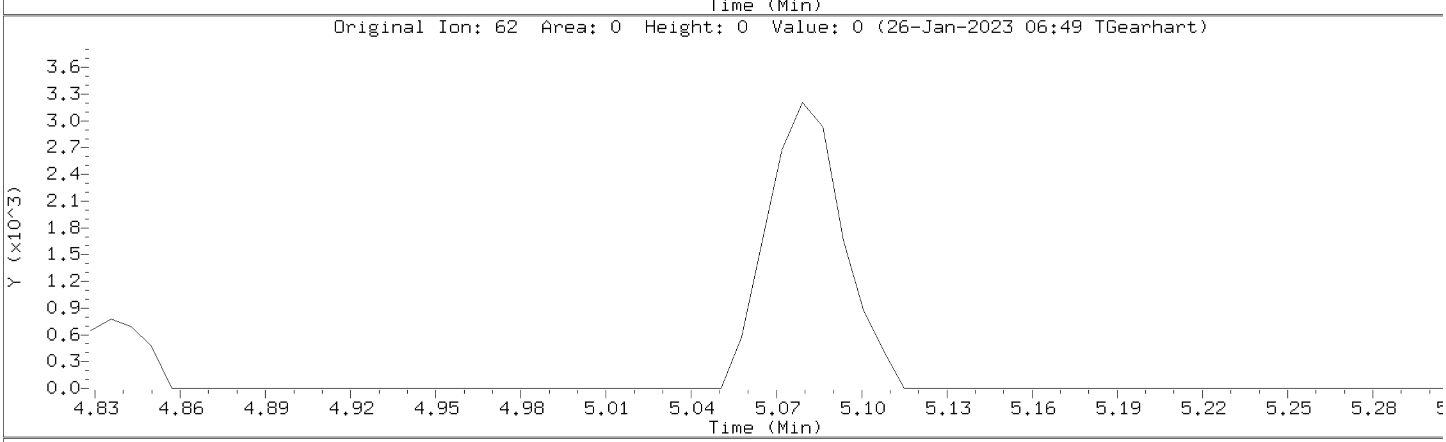
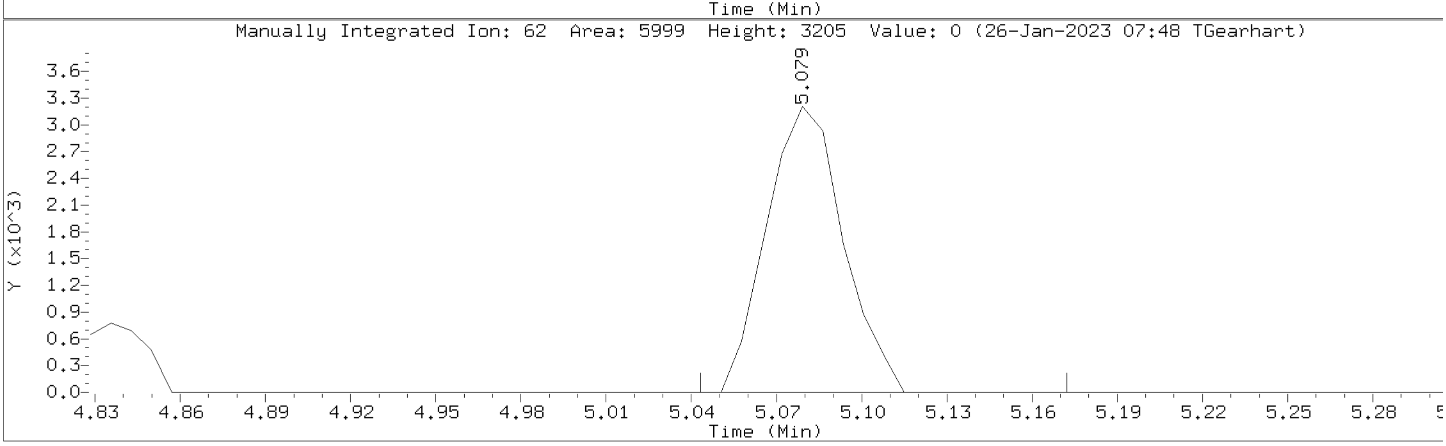
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5









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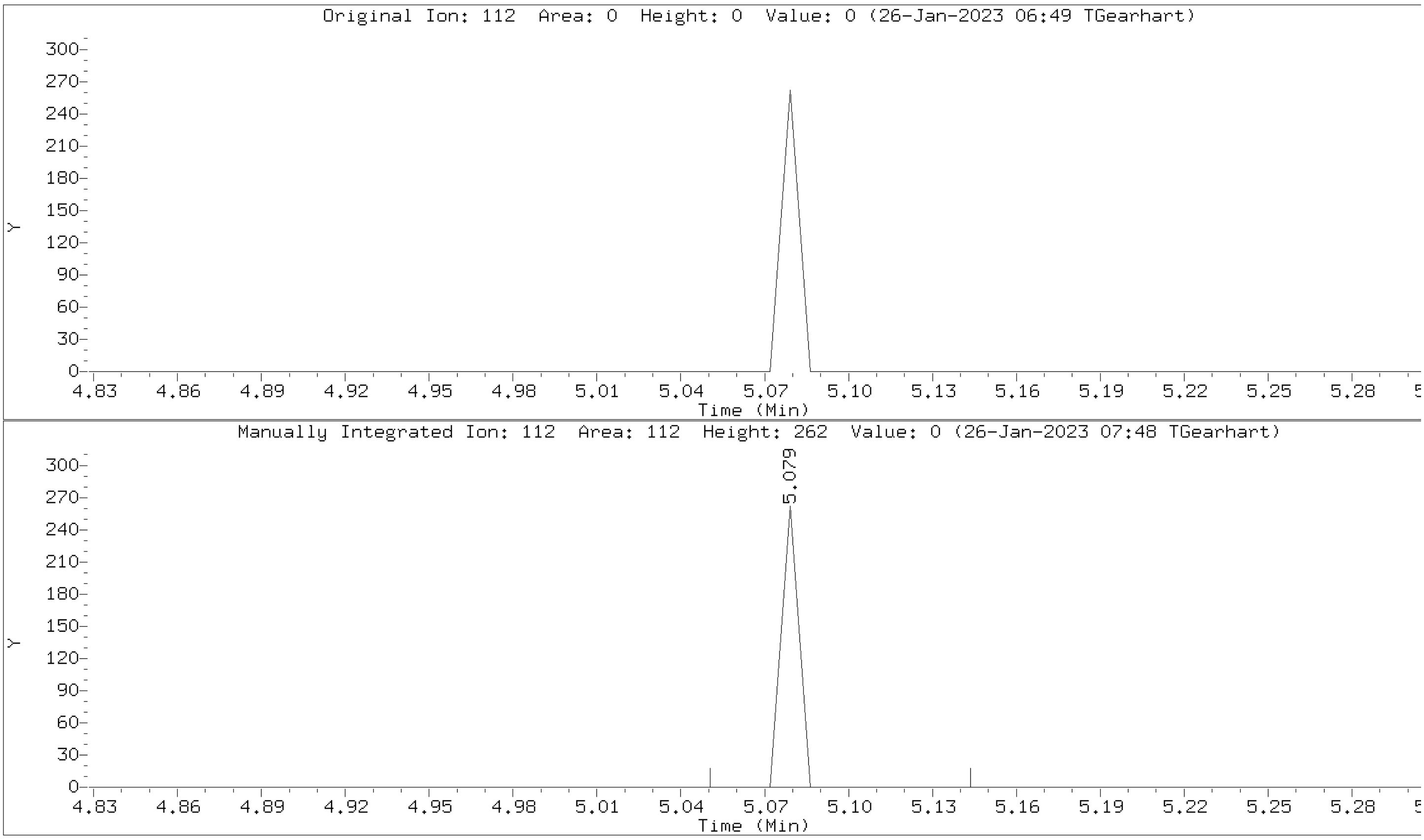

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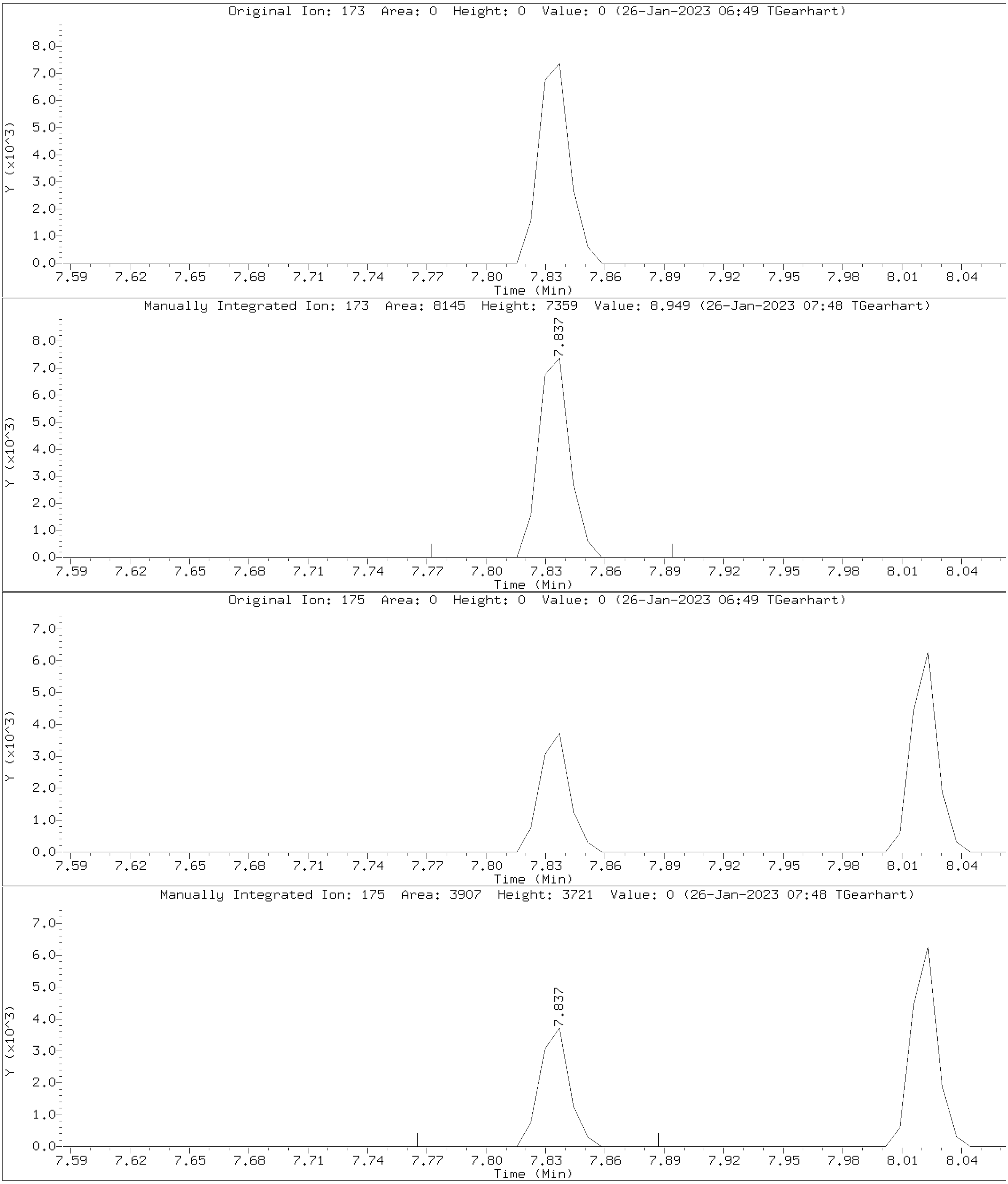
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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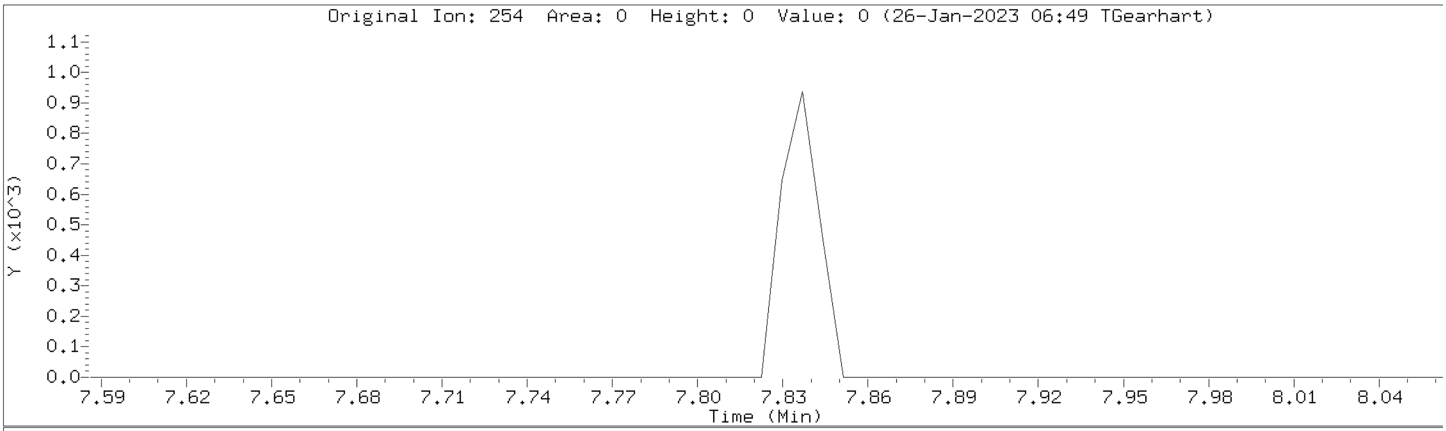
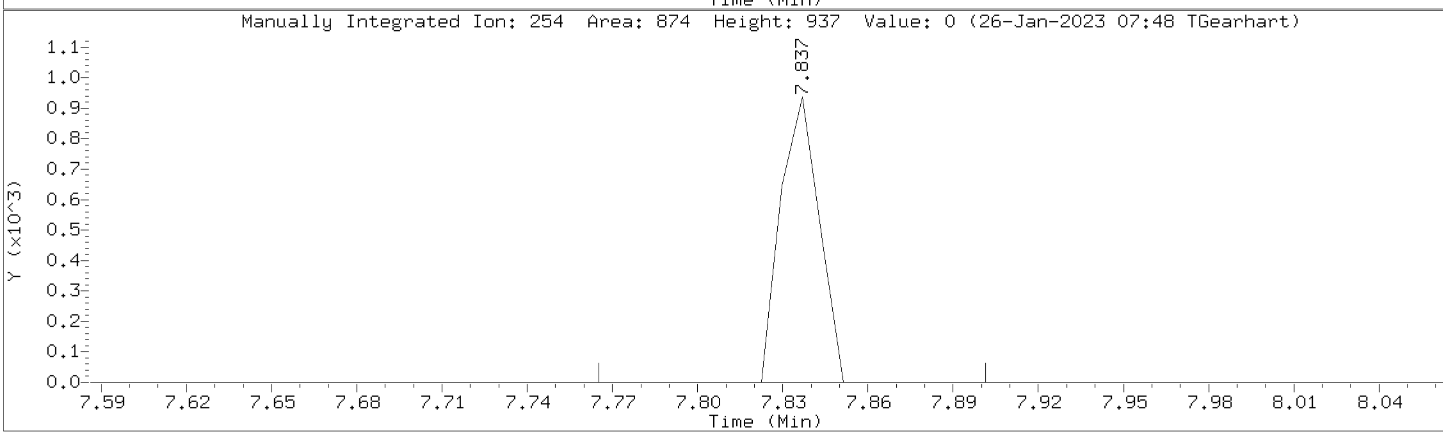
Lab Sample ID: 8260-CAL5





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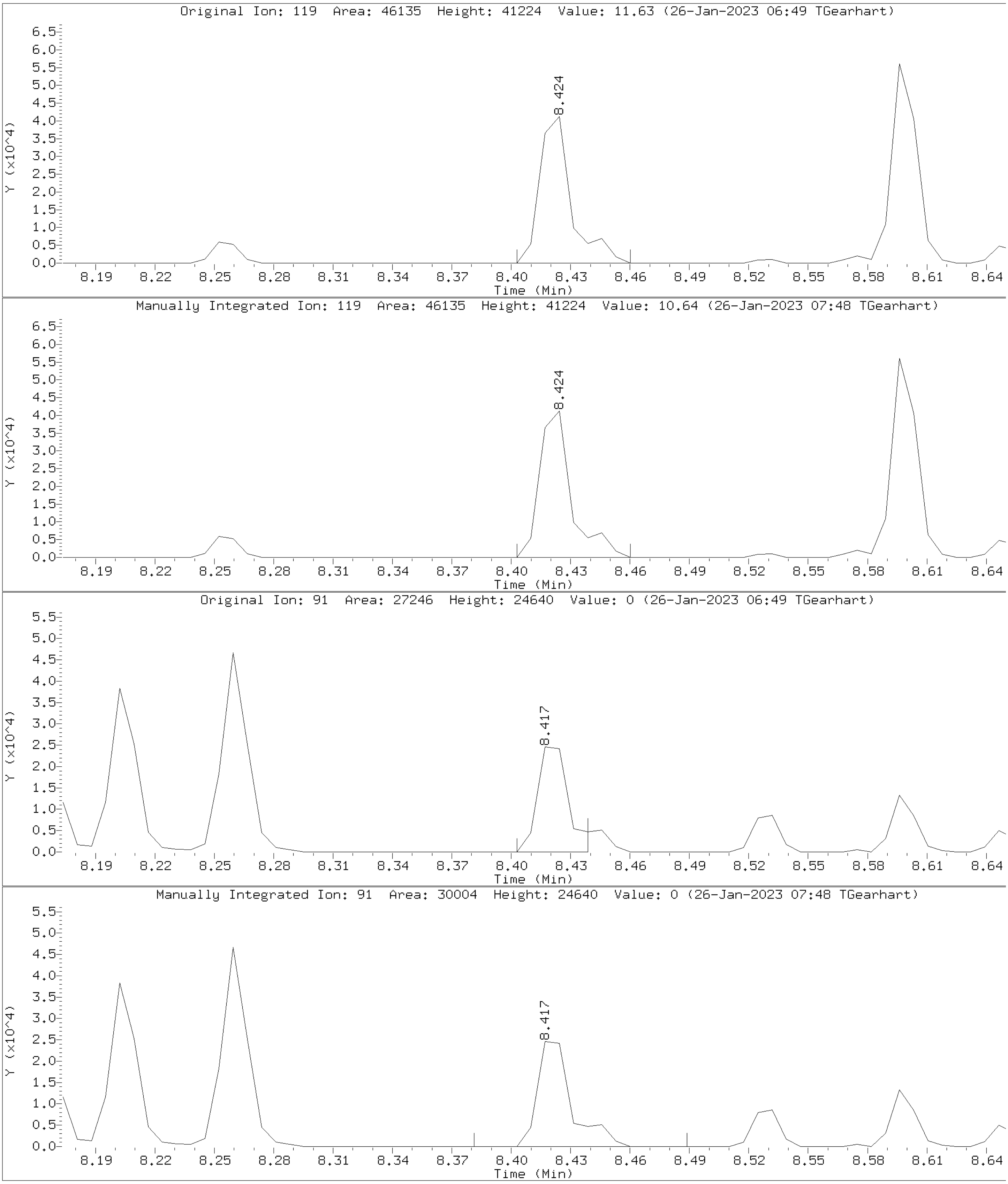
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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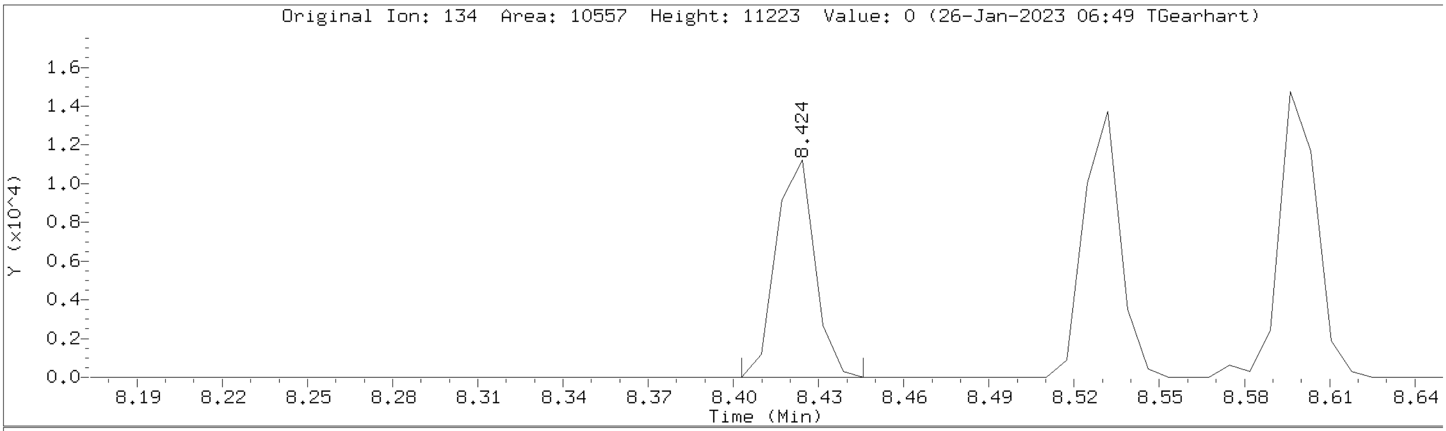
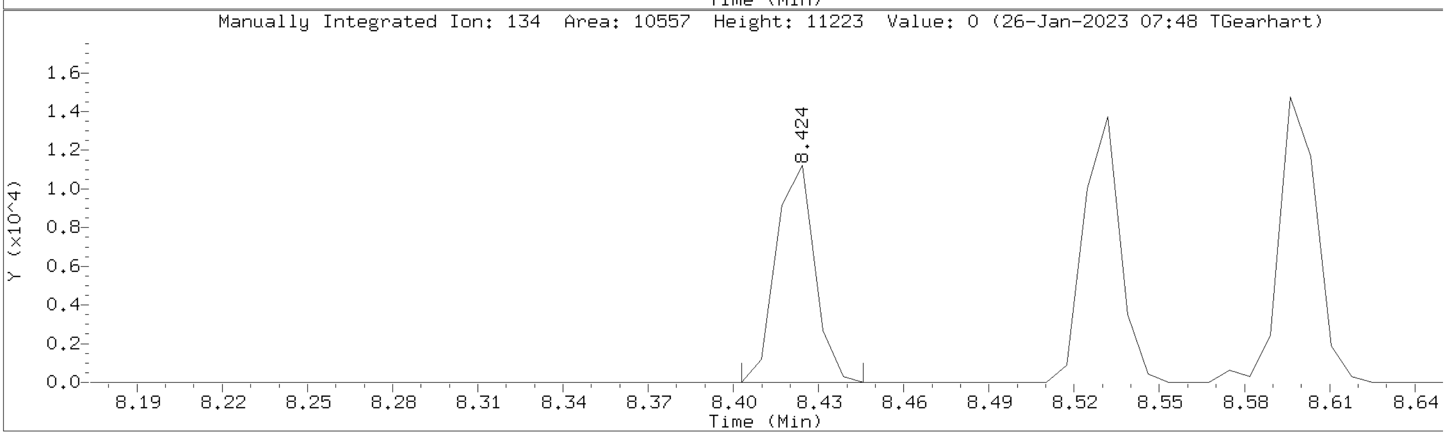
Injection Date: 24-JAN-2023 16:17
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL5





Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a10cal6.d Page 1
Report Date: 02-Feb-2023 19:55

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a10cal6.d
Lab Smp Id: 8260-CAL6 Client Smp ID: 8260-CAL6
Inj Date : 24-JAN-2023 16:47
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal6,336623
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 10 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	0.974	0.975	(0.221)	25370	20.0000	22.9(M)	LT
2 Chloromethane	50	1.132	1.139	(0.257)	14752	20.0000	20.3	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	19607	20.0000	20.4	
4 Bromomethane	94	1.275	1.275	(0.289)	12914	20.0000	19.9(M)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	12010	20.0000	20.9	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	32519	20.0000	21.4	
7 Diethyl ether	74	1.590	1.590	(0.361)	10971	20.0000	20.5	
8 Acrolein	56	1.662	1.662	(0.377)	83467	400.000	439	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	19822	20.0000	20.7	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	17127	20.0000	20.8	
11 Acetone	43	1.740	1.740	(0.395)	36115	100.000	113	
12 Iodomethane	142	1.819	1.819	(0.413)	30755	20.0000	21.6	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	44543	20.0000	20.2	
14 Acetonitrile	39	1.927	1.927	(0.437)	15505	100.000	102(M)	GT
15 allyl chloride	41	1.927	1.927	(0.437)	25773	20.0000	19.6(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	77417	100.000	103	
17 Methylene Chloride	84	2.005	2.006	(0.455)	19253	20.0000	18.2	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	11507	100.000	103(M)	WP
19 Acrylonitrile	53	2.156	2.156	(0.489)	40611	100.000	110	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	56823	20.0000	21.0	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	19431	20.0000	20.6	
22 n-Hexane	57	2.392	2.392	(0.543)	24213	20.0000	20.2	
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	31274	20.0000	21.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	2.535	2.536	(0.576)	161251	80.0000	84.5	
25 Diisopropyl ether	45	2.557	2.557	(0.581)	48915	20.0000	20.4	
26 chloroprene	53	2.578	2.579	(0.585)	26209	20.0000	20.6	
27 Ethyl-tert-butyl ether	59	2.886	2.887	(0.655)	54068	20.0000	21.0	
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	21839	20.0000	20.8	
29 2,2-Dichloropropane	77	3.030	3.023	(0.688)	26474	20.0000	20.6	
30 2-Butanone	43	3.037	3.037	(0.689)	49387	100.000	104	
31 Propionitrile	54	3.094	3.101	(0.702)	13061	100.000	111	
32 Ethyl Acetate	88	3.109	3.109	(0.706)	5813	100.000	99.8	
33 Methacrylonitrile	41	3.259	3.259	(0.740)	56961	100.000	107	
34 Bromochloromethane	49	3.273	3.266	(0.743)	12442	20.0000	21.2	
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	34369	100.000	109	
36 Chloroform	83	3.366	3.367	(0.764)	35034	20.0000	20.2	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	55862	50.0000	50.4	
38 1,1,1-Trichloroethane	97	3.588	3.581	(0.815)	31504	20.0000	20.4	
39 Cyclohexane	56	3.660	3.660	(0.831)	26285	20.0000	19.7	
40 Carbon Tetrachloride	117	3.796	3.803	(0.862)	28327	20.0000	20.4	
41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	24572	20.0000	21.3	
42 Isobutyl alcohol	43	3.990	3.990	(0.906)	2909	100.000	108	
43 Benzene	78	4.054	4.061	(0.920)	74601	20.0000	20.1	
44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	26309	20.0000	20.4	
45 2,2,4-Trimethylpentane	57	4.427	4.405	(1.005)	17501	20.0000	18.4	
46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	56026	20.0000	20.5	
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	204437	50.0000		
48 Trichloroethene	95	4.835	4.835	(1.098)	20953	20.0000	20.5	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	23244	20.0000	20.4	
50 1,2-Dichloropropane	63	5.078	5.079	(1.153)	17304	20.0000	20.5	
51 Dibromomethane	93	5.200	5.200	(1.180)	12970	20.0000	21.4	
52 1,4-Dioxane	88	5.250	5.258	(1.192)	1107	400.000	342	
53 Methyl methacrylate	69	5.257	5.258	(1.193)	16600	20.0000	21.8	
54 Bromodichloromethane	83	5.386	5.387	(1.223)	25237	20.0000	20.8	
55 2-Chloroethyl vinyl ether	63	5.737	5.738	(0.785)	69290	100.000	111	
56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	30467	20.0000	21.1	
57 4-Methyl-2-Pentanone	43	6.045	6.046	(0.827)	112191	100.000	110	
$ 58 Toluene-d8	98	6.131	6.131	(0.839)	201912	50.0000	50.7	
59 Toluene	91	6.196	6.203	(0.848)	88952	20.0000	20.4	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	28622	20.0000	21.1	
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	27866	20.0000	21.3	
62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	15100	20.0000	21.3	
63 Tetrachloroethene	166	6.697	6.697	(0.917)	27198	20.0000	20.3	
64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	29948	20.0000	20.7	
65 2-Hexanone	43	6.812	6.812	(0.932)	86308	100.000	113	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	22362	20.0000	20.8	
67 1,2-Dibromoethane	107	6.969	6.970	(0.954)	21446	20.0000	22.6	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	156698	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	61039	20.0000	20.4	
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	22301	20.0000	21.1	
71 Ethylbenzene	106	7.406	7.407	(1.014)	32443	20.0000	20.4	
72 m&p-Xylene	106	7.485	7.485	(1.025)	40263	20.0000	20.3	
73 o-Xylene	106	7.722	7.722	(1.057)	39224	20.0000	20.8	
74 Styrene	104	7.729	7.736	(1.058)	67634	20.0000	21.0	
75 Bromoform	173	7.836	7.836	(0.910)	17328	20.0000	17.9	
76 Isopropylbenzene	105	7.936	7.937	(1.086)	104878	20.0000	20.6	
$ 77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	78462	50.0000	51.8	

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	78 Bromobenzene	77	8.094	8.094	(1.108)	34580	20.0000	19.4	
	79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	27537	20.0000	21.5	
	80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	9907	20.0000	21.3	
	81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	8074	20.0000	21.8	
	82 n-Propylbenzene	91	8.159	8.159	(0.948)	117494	20.0000	20.0	
	83 2-Chlorotoluene	91	8.202	8.202	(0.953)	69270	20.0000	20.4	
	84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	88412	20.0000	20.6	
	85 4-Chlorotoluene	126	8.259	8.259	(0.959)	26578	20.0000	20.7	
	86 tert-Butylbenzene	119	8.424	8.424	(0.978)	89361	20.0000	20.3(M)	LT
	87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	87937	20.0000	20.1	
	88 sec-Butylbenzene	105	8.531	8.531	(0.991)	107205	20.0000	20.3	
	89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	50312	20.0000	19.9	
	90 p-Isopropyltoluene	119	8.595	8.596	(0.998)	95644	20.0000	20.5	
*	91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	87862	50.0000		
	92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	50892	20.0000	20.4	
	93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	84142	20.0000	20.5	
	94 n-Butylbenzene	91	8.789	8.789	(1.021)	76715	20.0000	20.6	
	95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	45750	20.0000	20.3	
	96 Hexachloroethane	201	8.925	8.925	(1.037)	14591	20.0000	20.7	
	97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	6487	20.0000	19.3	
	98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	26873	20.0000	20.0	
	99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	12955	20.0000	19.6	
	100 Naphthalene	128	9.627	9.627	(1.118)	73371	20.0000	20.9	
	101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	21827	20.0000	20.5	
	102 2,methyl-naphthalene	142	10.128	10.129	(1.176)	25160	20.0000	21.0	
	103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	22003	20.0000	21.5	

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).
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
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\a012423cal.b\a10cal6.d

Date : 24-JAN-2023 16:47

Client ID: 8260-CAL6

Instrument: 50mv2a.i

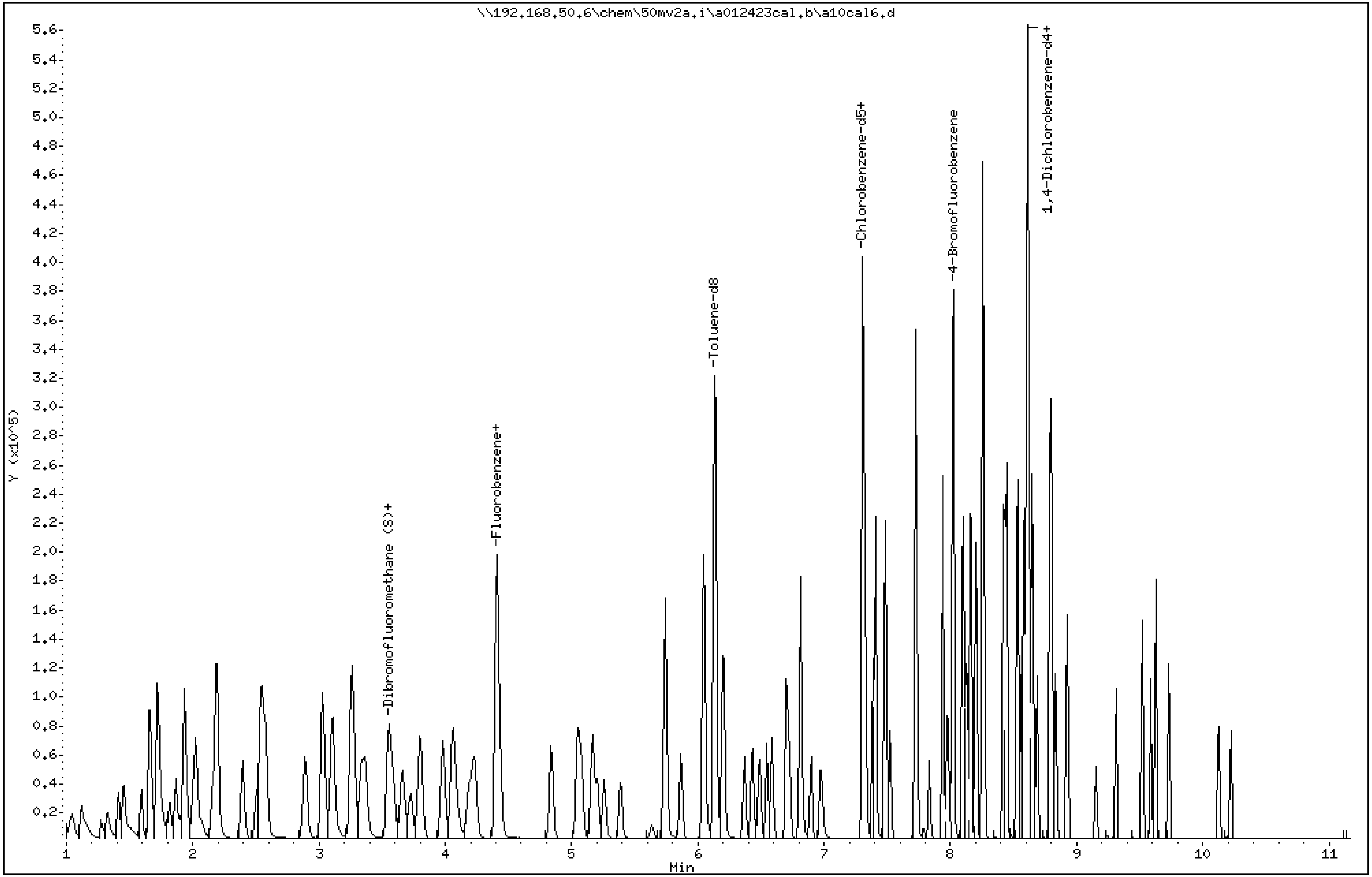
Sample Info: 8260-CAL6,336623

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a10cal6.d Page 5

Date : 24-JAN-2023 16:47

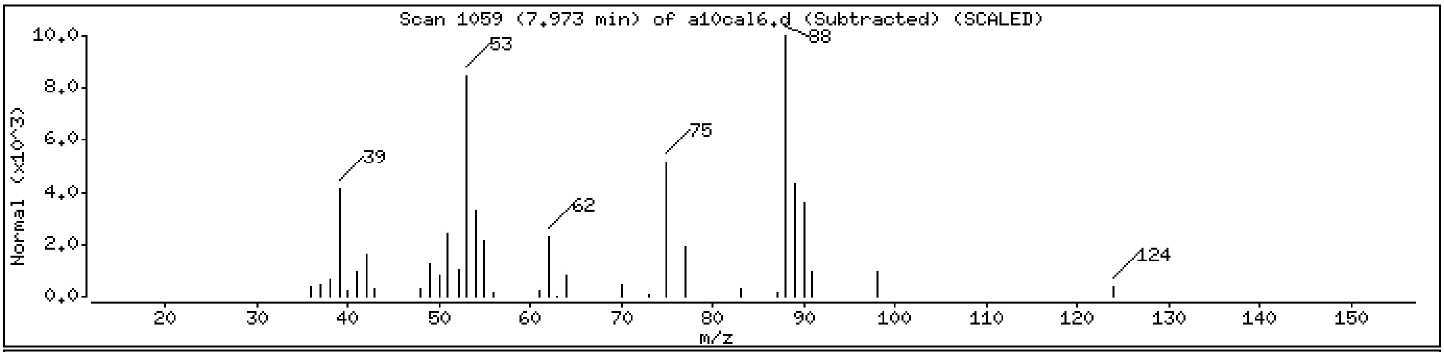
Client ID: 8260-CAL6 Instrument: 50mv2a.i

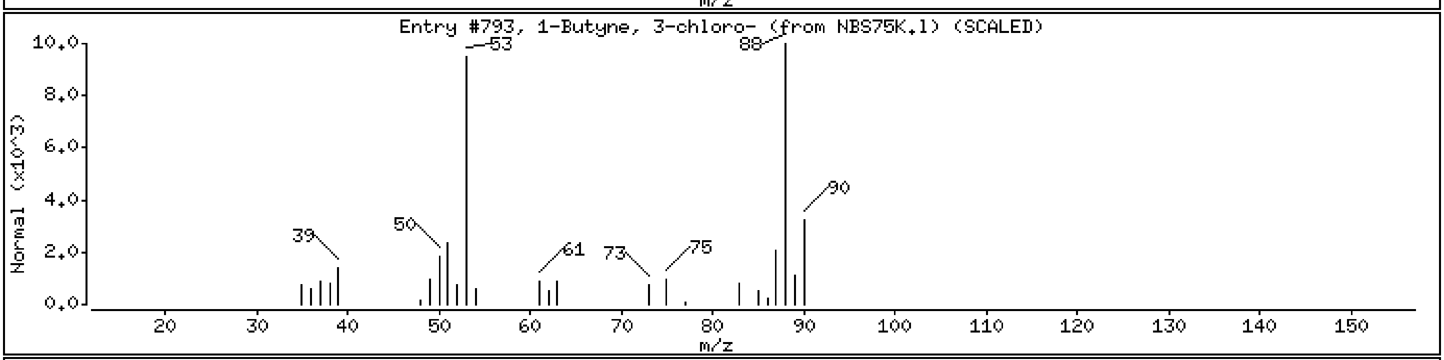
Sample Info: 8260-CAL6,336623

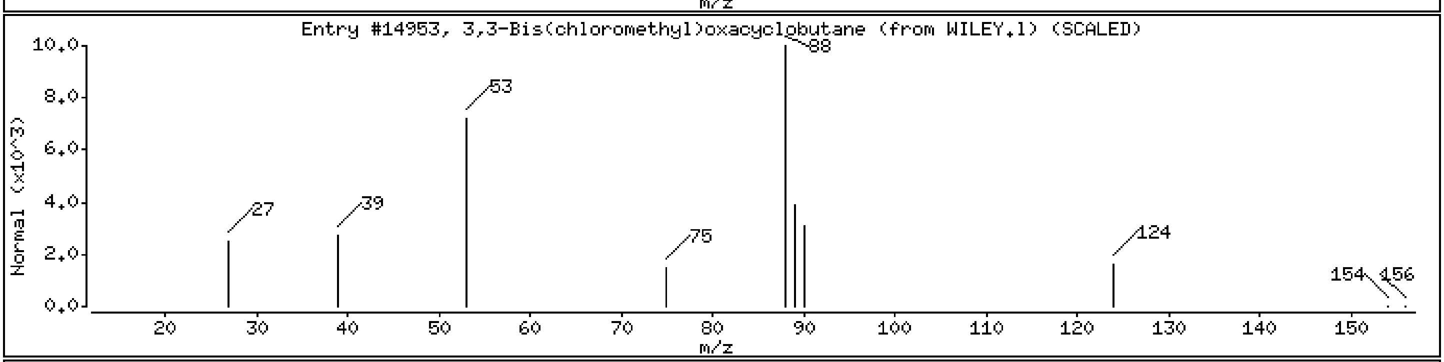
Purge Volume: 5.0 Operator: tkg

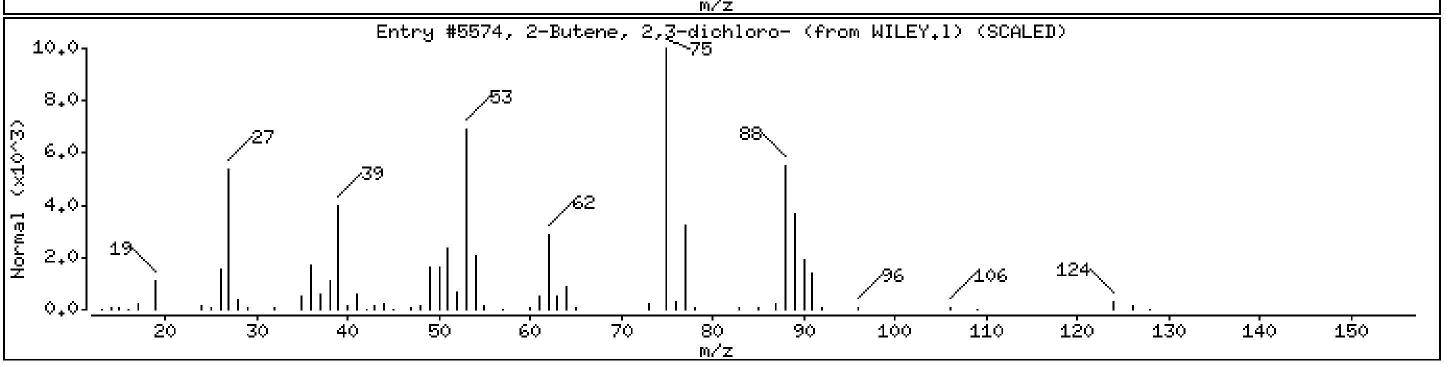
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Butyne, 3-chloro-	21020-24-6	NBS75K.l	793	53	C4H5Cl	88
3,3-Bis(chloromethyl)oxacyclobutane	0-00-0	WILEY.l	14953	42	C5H8Cl2O	154
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	42	C4H6Cl2	124









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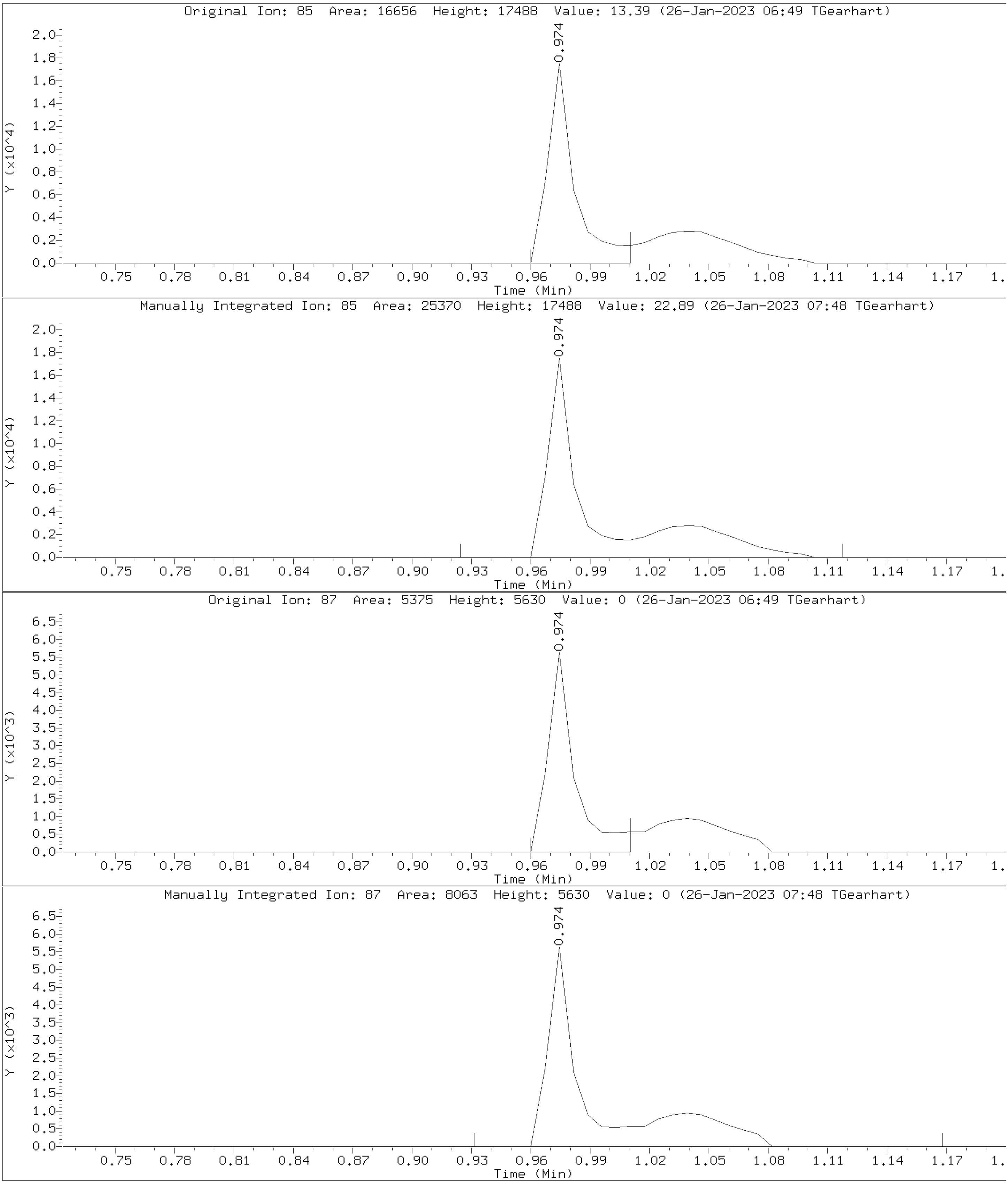
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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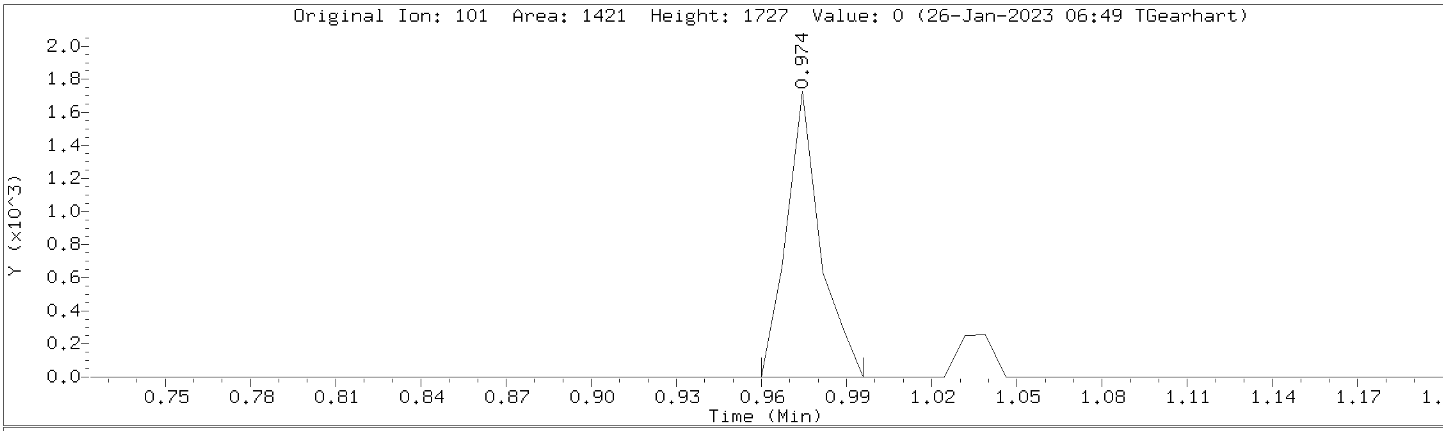
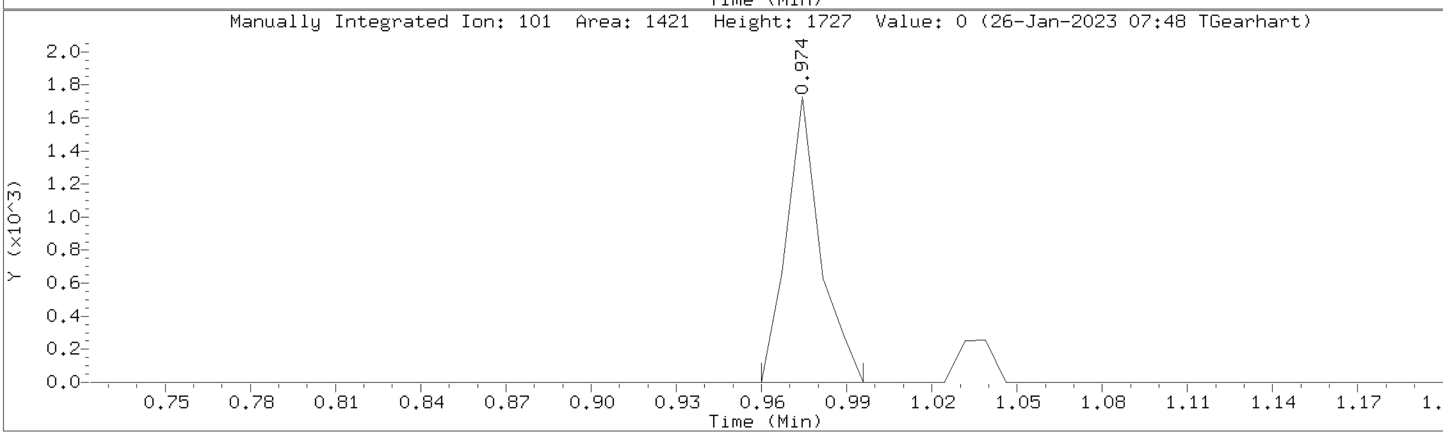
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6





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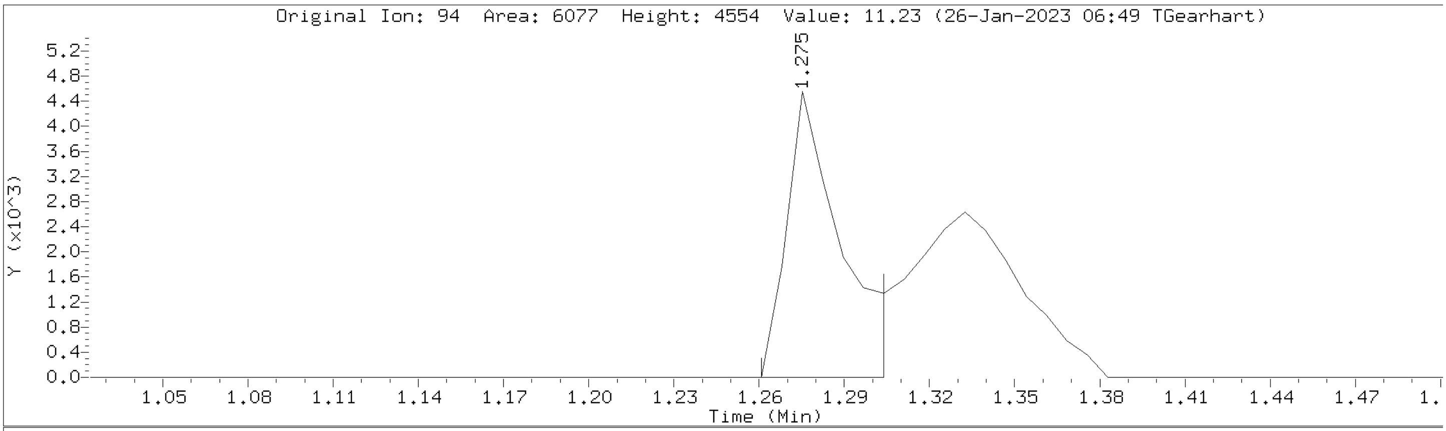
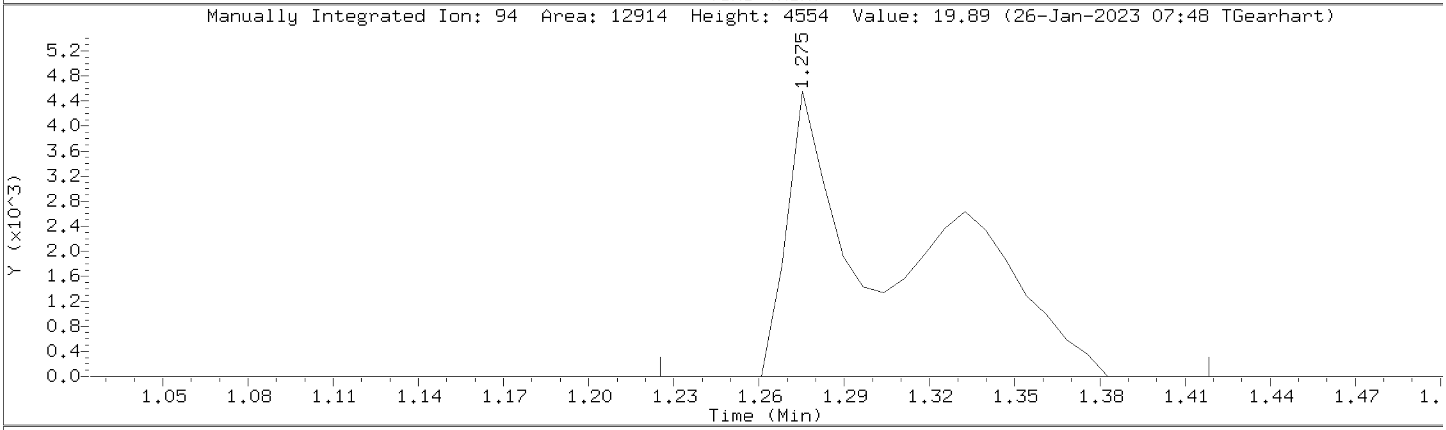
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

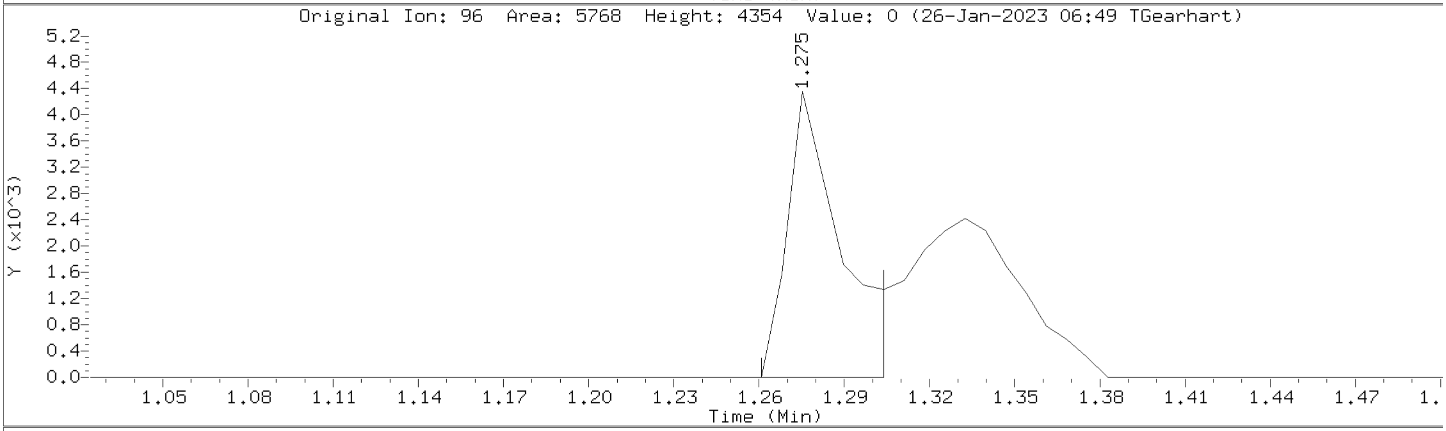
Original Ion: 94 Area: 6077 Height: 4554 Value: 11.23 (26-Jan-2023 06:49 TGearhart)



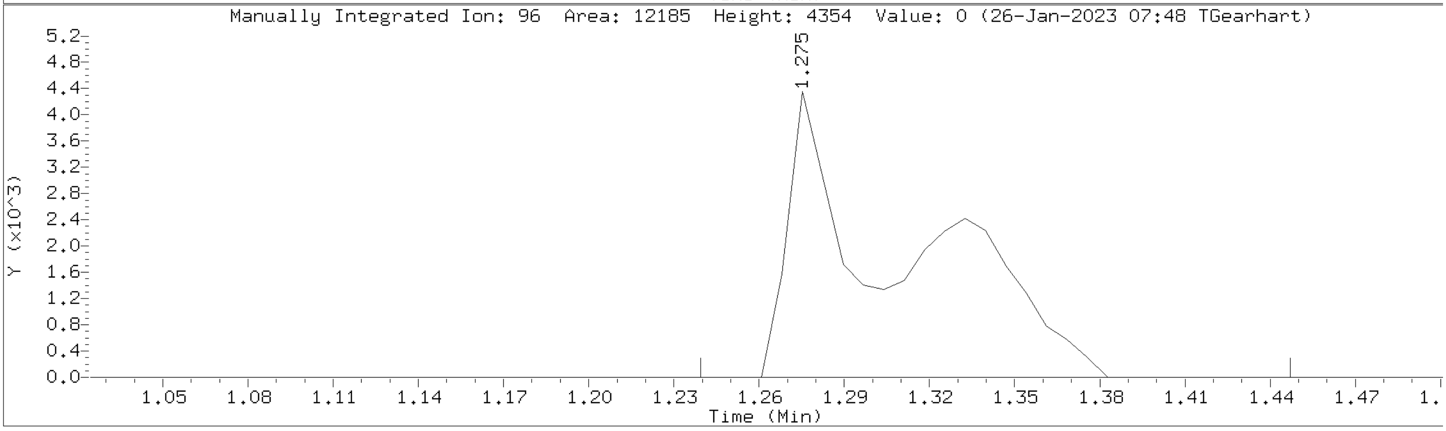
Manually Integrated Ion: 94 Area: 12914 Height: 4554 Value: 19.89 (26-Jan-2023 07:48 TGearhart)



Original Ion: 96 Area: 5768 Height: 4354 Value: 0 (26-Jan-2023 06:49 TGearhart)



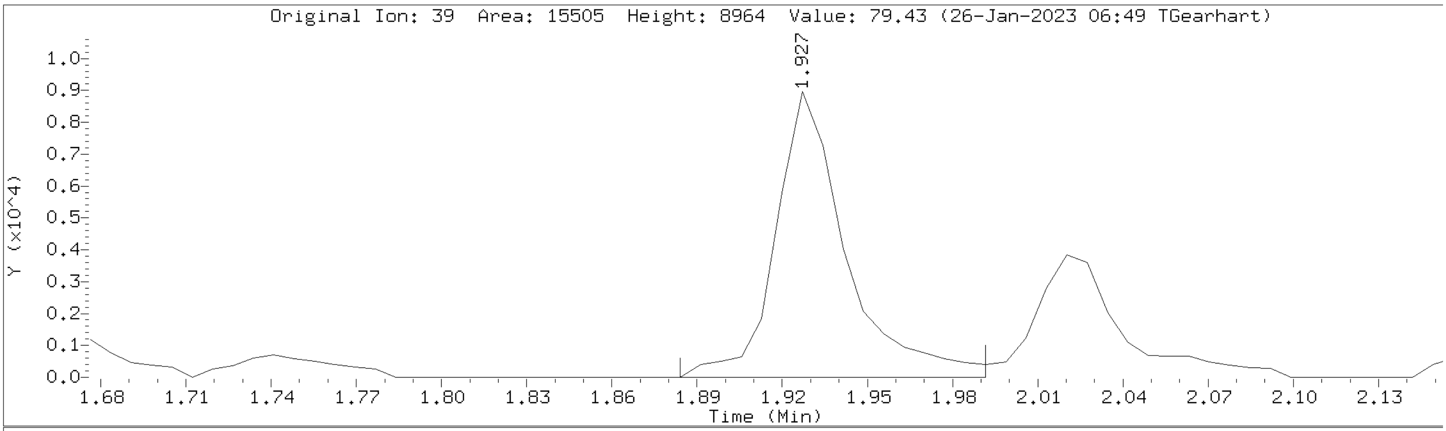
Manually Integrated Ion: 96 Area: 12185 Height: 4354 Value: 0 (26-Jan-2023 07:48 TGearhart)



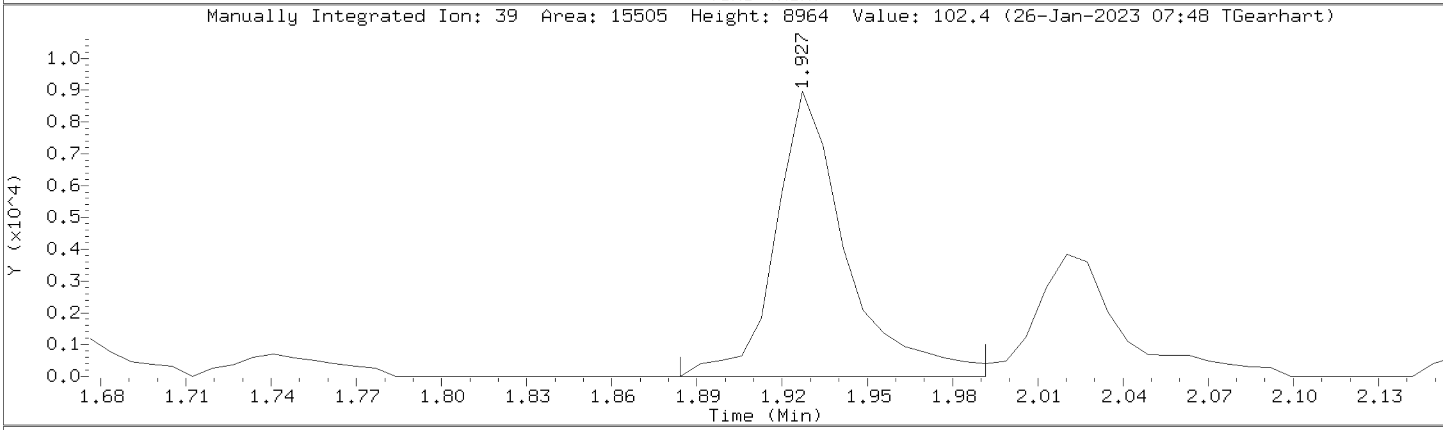
Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a10cal6.d
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8

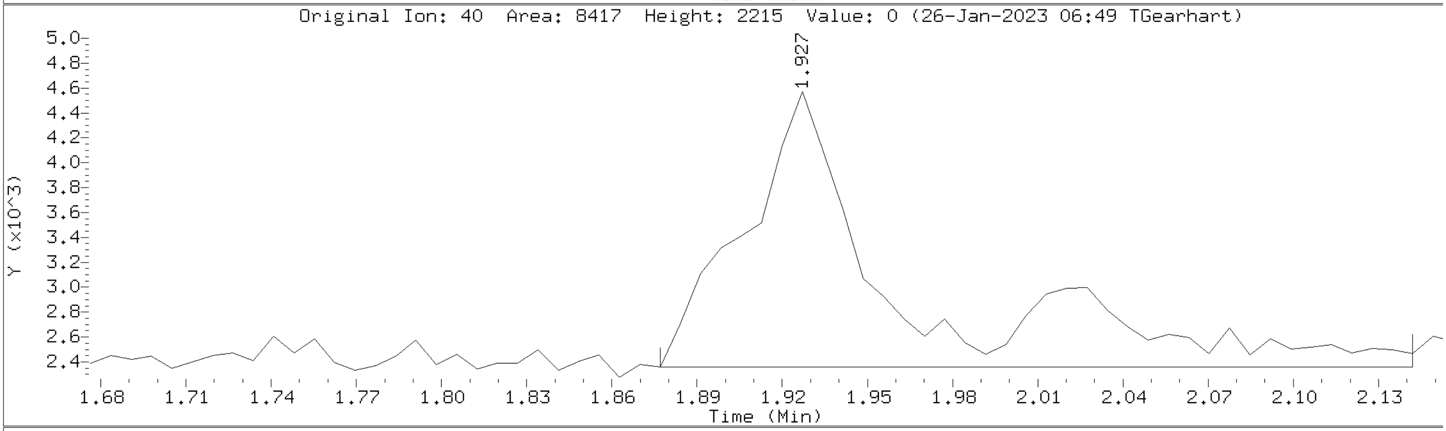
Original Ion: 39 Area: 15505 Height: 8964 Value: 79.43 (26-Jan-2023 06:49 TGearhart)



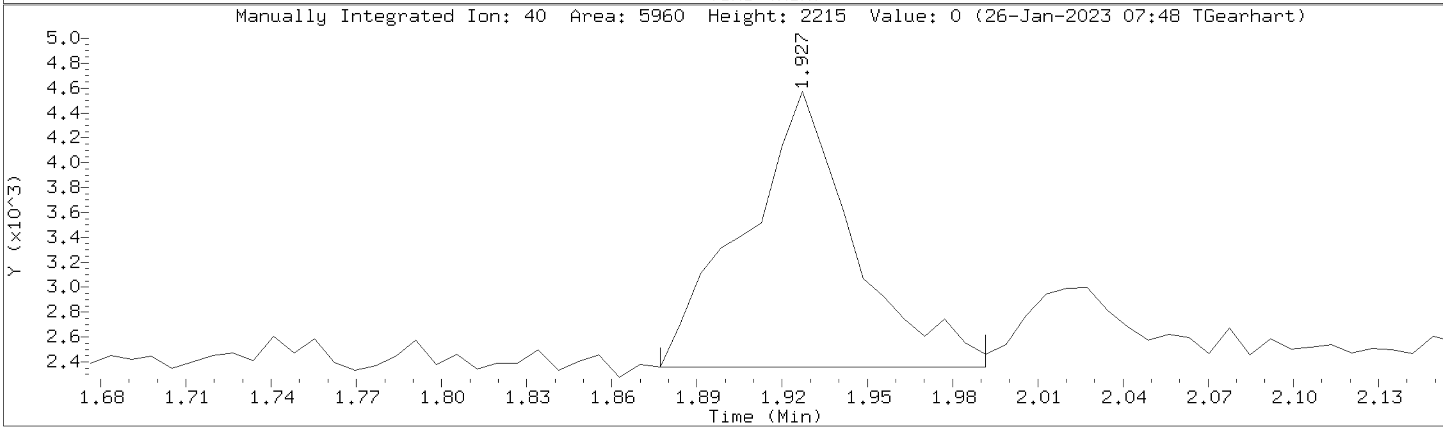
Manually Integrated Ion: 39 Area: 15505 Height: 8964 Value: 102.4 (26-Jan-2023 07:48 TGearhart)



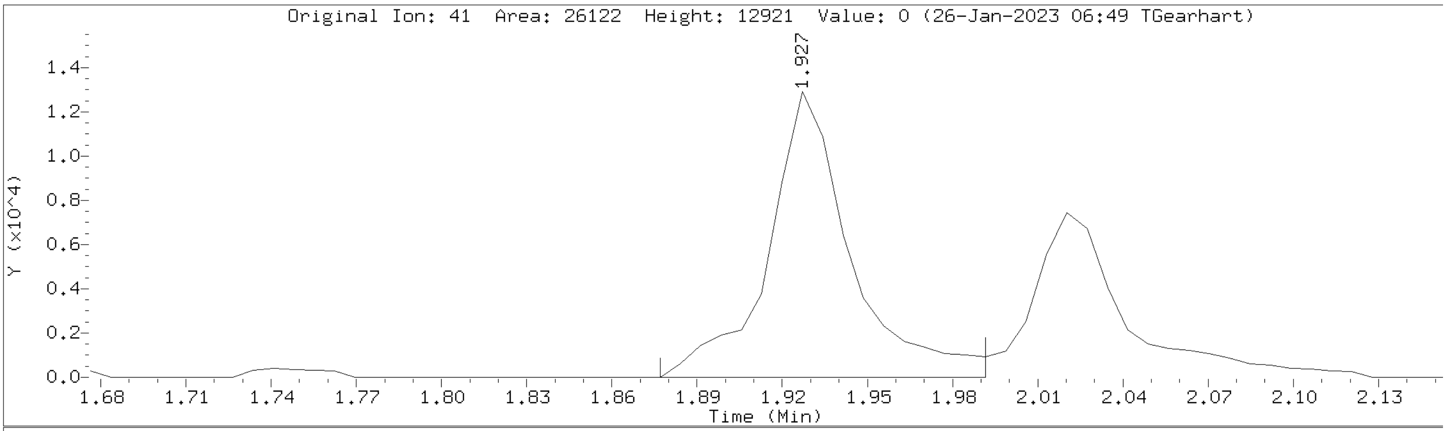
Original Ion: 40 Area: 8417 Height: 2215 Value: 0 (26-Jan-2023 06:49 TGearhart)

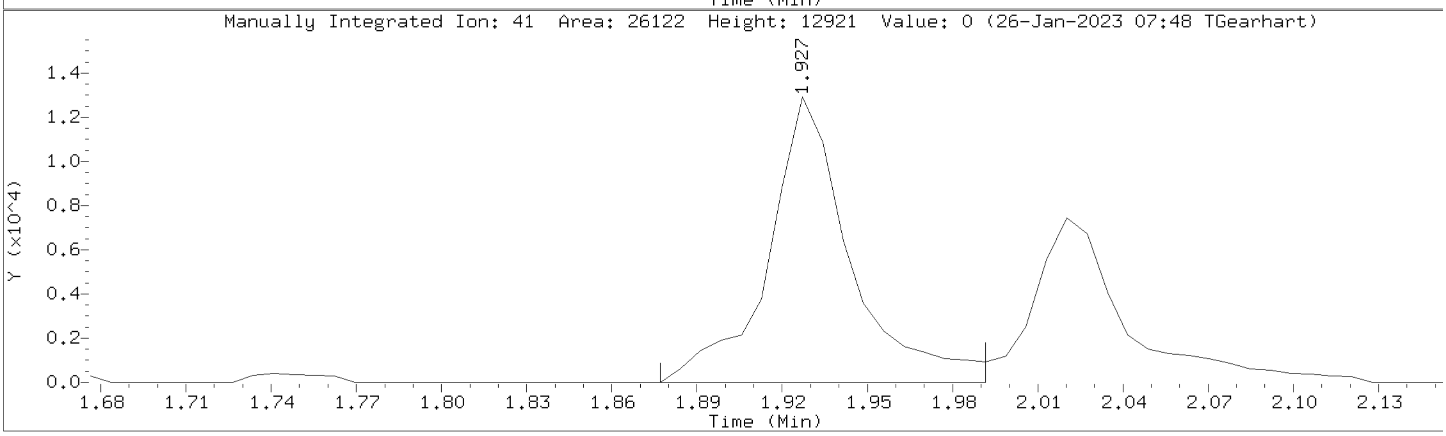


Manually Integrated Ion: 40 Area: 5960 Height: 2215 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a10cal6.d
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6





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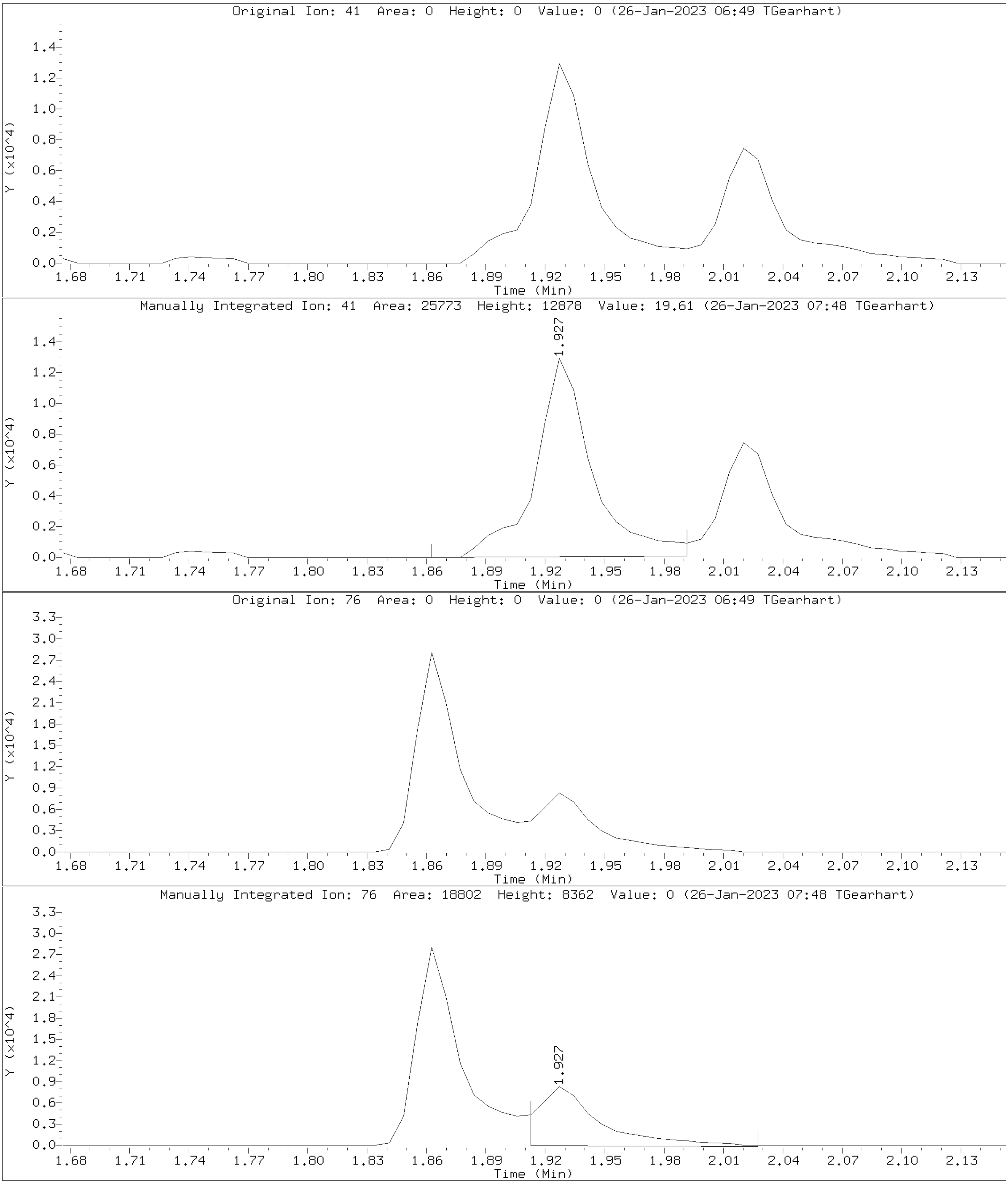
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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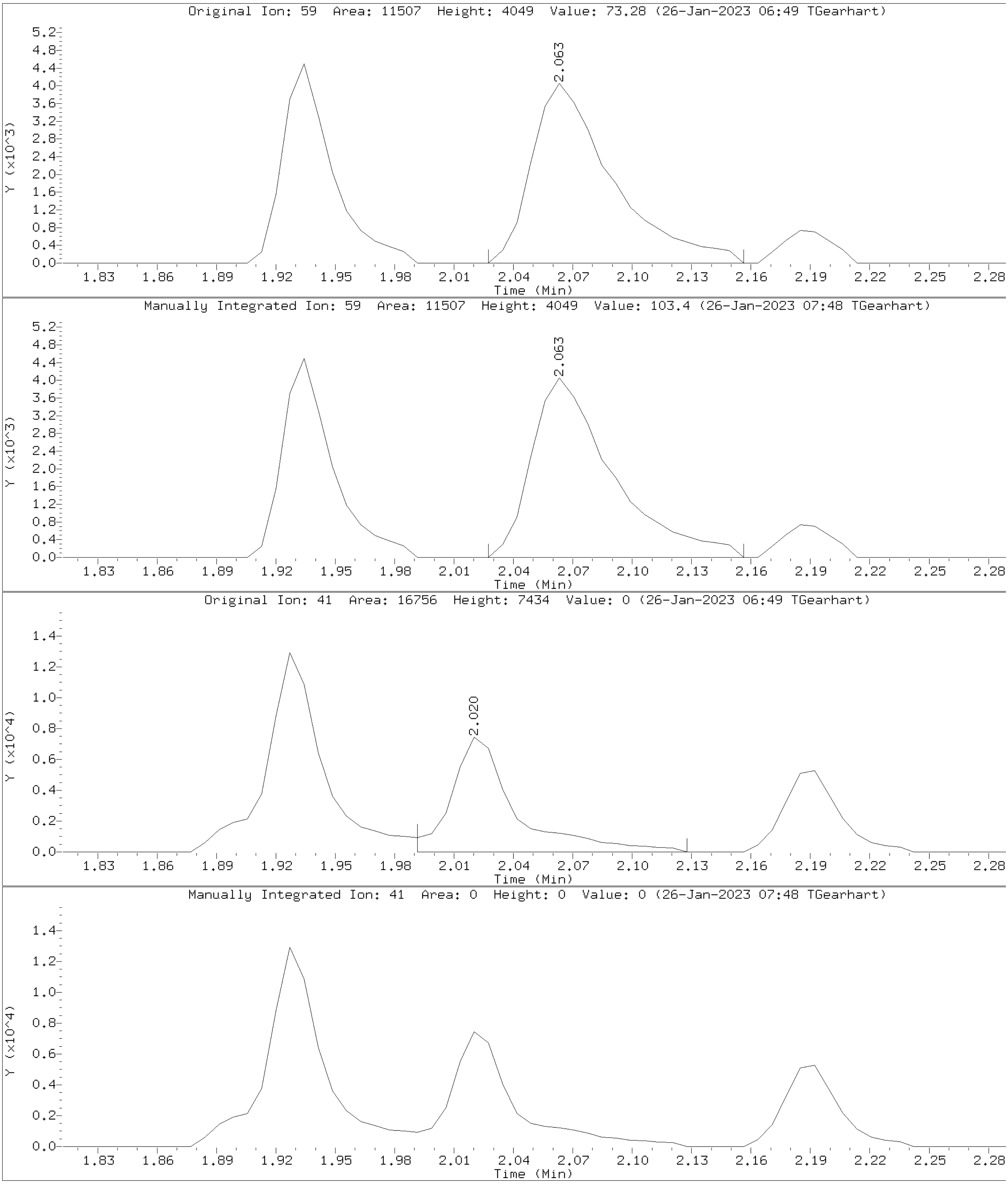
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butyl Alcohol   Review Code: WP
CAS Number: 75-65-0



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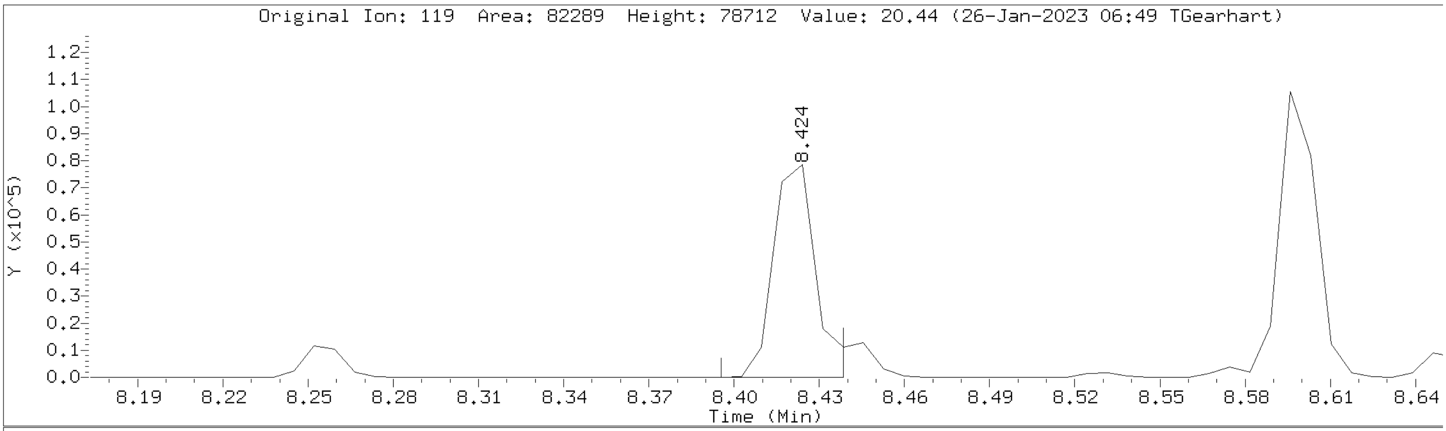
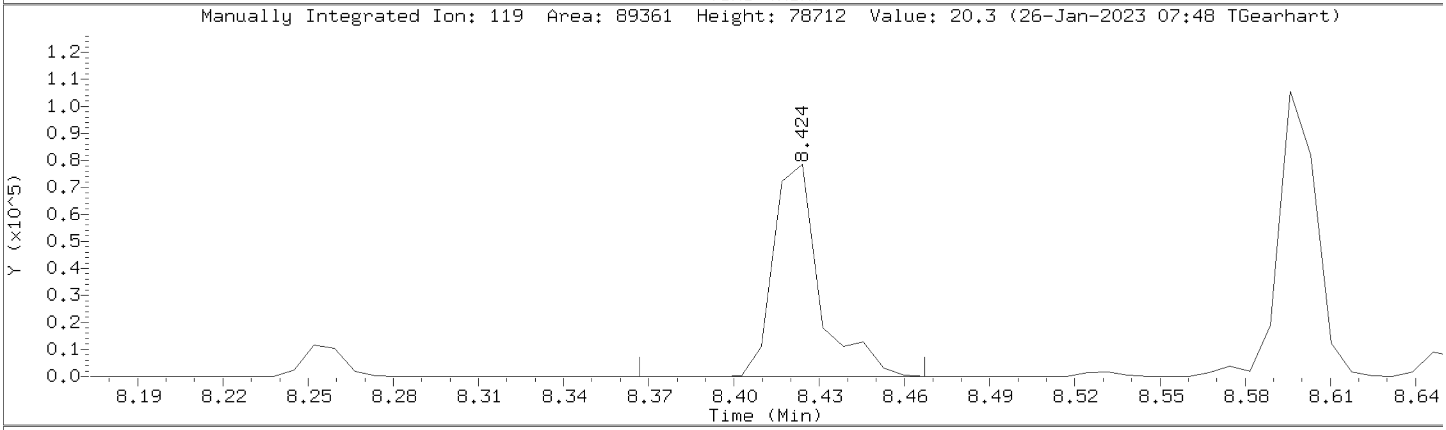
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6

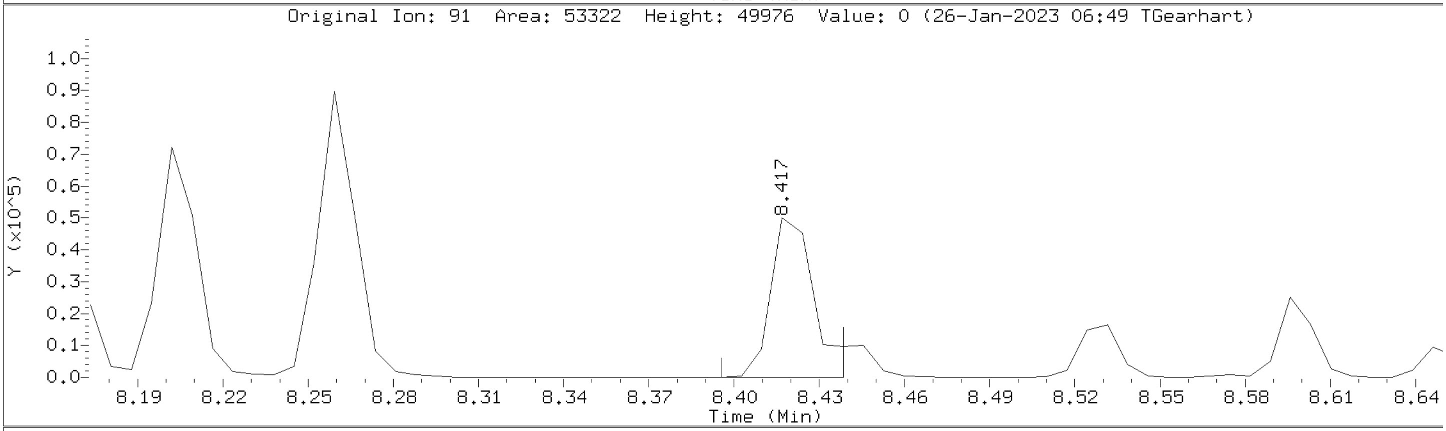
Original Ion: 119 Area: 82289 Height: 78712 Value: 20.44 (26-Jan-2023 06:49 TGearhart)



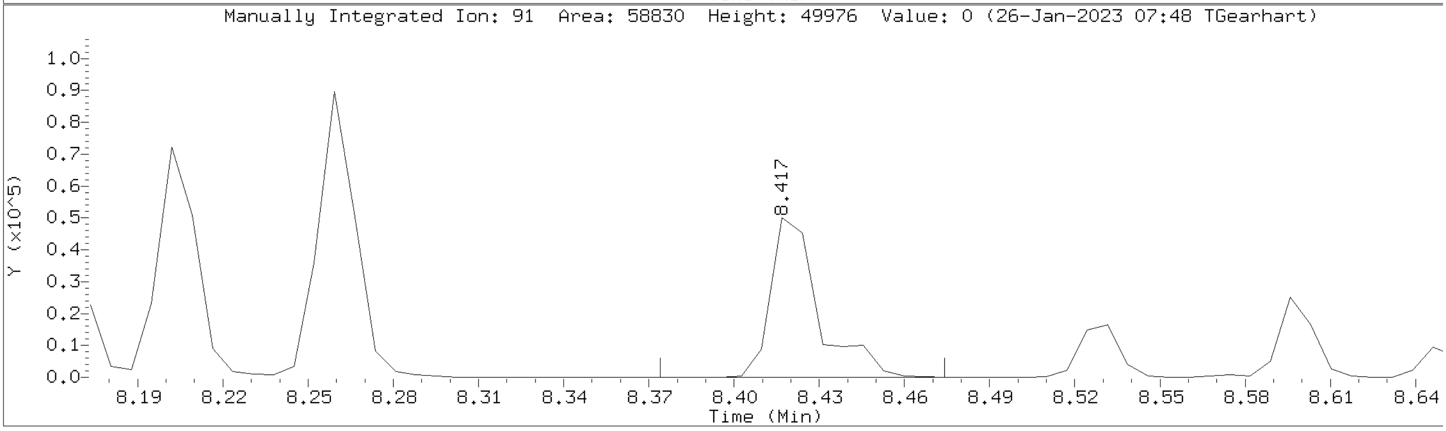
Manually Integrated Ion: 119 Area: 89361 Height: 78712 Value: 20.3 (26-Jan-2023 07:48 TGearhart)



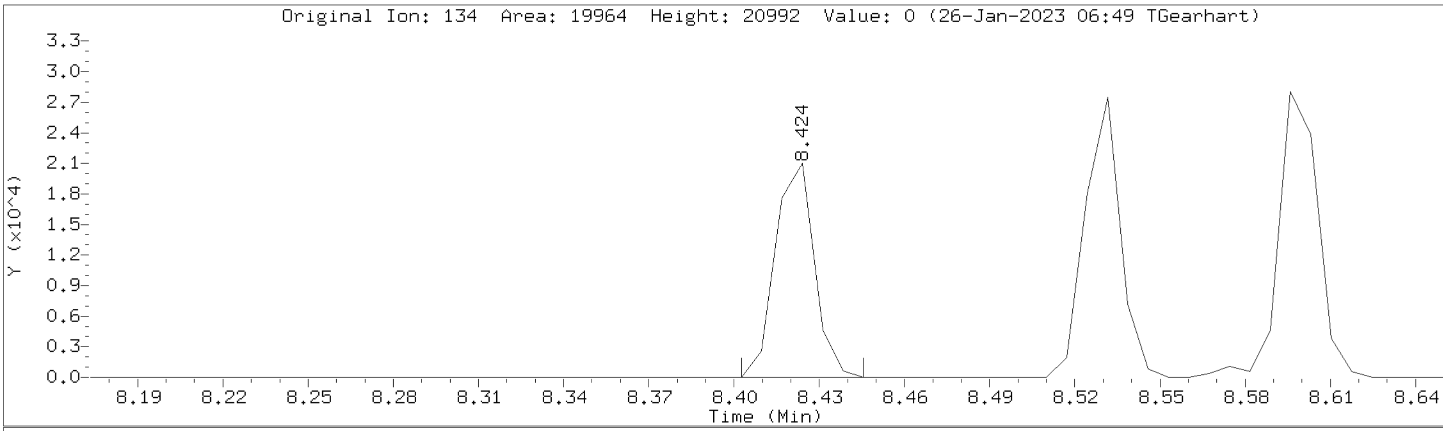
Original Ion: 91 Area: 53322 Height: 49976 Value: 0 (26-Jan-2023 06:49 TGearhart)

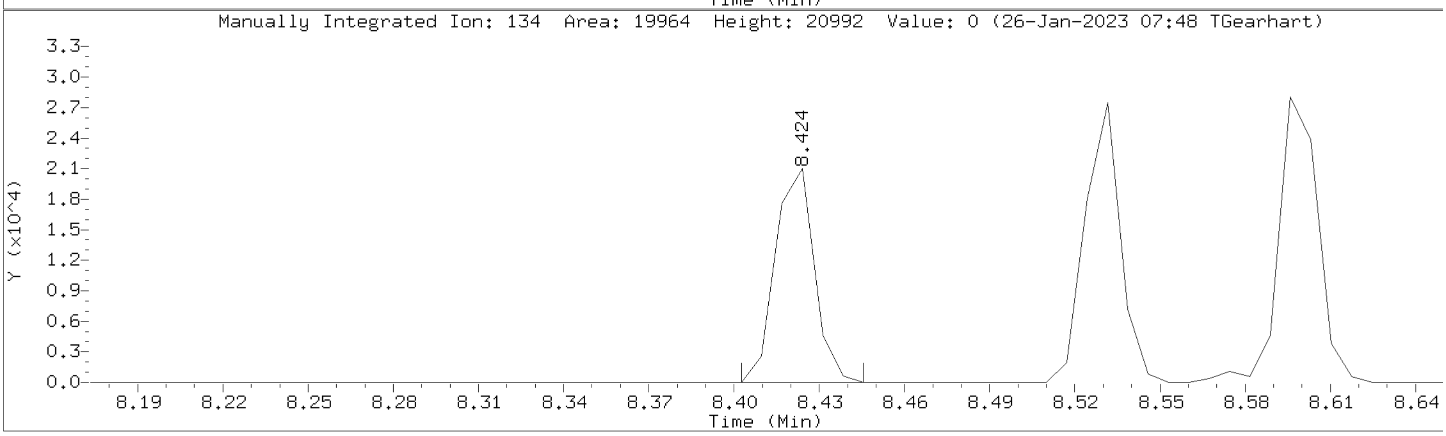


Manually Integrated Ion: 91 Area: 58830 Height: 49976 Value: 0 (26-Jan-2023 07:48 TGearhart)



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a10cal6.d
Injection Date: 24-JAN-2023 16:47
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL6





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a11cal7.d
Lab Smp Id: 8260-CAL7   Client Smp ID: 8260-CAL7
Inj Date : 24-JAN-2023 17:16
Operator : tkg   Inst ID: 50mv2a.i
Smp Info : 8260-cal7,336624
Misc Info : 166154
Comment   :
Method   : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19   Cal File: a07cal3.d
Als bottle: 11   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	0.974	0.975	(0.221)	64149	50.0000	57.1(M)	LT
2 Chloromethane	50	1.139	1.139	(0.259)	37085	50.0000	49.8	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	49179	50.0000	49.7(M)	LT
4 Bromomethane	94	1.275	1.275	(0.289)	31849	50.0000	47.5(M)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	29940	50.0000	51.0	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	81786	50.0000	52.7	
7 Diethyl ether	74	1.590	1.590	(0.361)	27421	50.0000	50.6	
8 Acrolein	56	1.662	1.662	(0.377)	207919	1000.00	1080	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	50406	50.0000	51.9	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	44010	50.0000	52.6	
11 Acetone	43	1.741	1.740	(0.395)	81304	250.000	252	
12 Iodomethane	142	1.819	1.819	(0.413)	79518	50.0000	54.5	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	113019	50.0000	50.6	
14 Acetonitrile	39	1.927	1.927	(0.437)	34339	250.000	224	
15 allyl chloride	41	1.927	1.927	(0.437)	62881	50.0000	47.2(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	183893	250.000	240	
17 Methylene Chloride	84	2.006	2.006	(0.455)	47020	50.0000	44.0	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	28535	250.000	246(M)	WP
19 Acrylonitrile	53	2.163	2.156	(0.491)	99902	250.000	267	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	142632	50.0000	52.0	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	50372	50.0000	52.7	
22 n-Hexane	57	2.392	2.392	(0.543)	62907	50.0000	51.9	
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	79116	50.0000	52.9	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
24 Vinyl Acetate	43	2.536	2.536	(0.576)	404914	200.000	209	
25 Diisopropyl ether	45	2.564	2.557	(0.582)	122481	50.0000	50.4	
26 chloroprene	53	2.579	2.579	(0.585)	67473	50.0000	52.3	
27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	136015	50.0000	52.2	
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	55949	50.0000	52.6	
29 2,2-Dichloropropane	77	3.030	3.023	(0.688)	68000	50.0000	52.3	
30 2-Butanone	43	3.037	3.037	(0.689)	118781	250.000	248	
31 Propionitrile	54	3.094	3.101	(0.702)	34262	250.000	288	
32 Ethyl Acetate	88	3.109	3.109	(0.706)	15368	250.000	249	
33 Methacrylonitrile	41	3.259	3.259	(0.740)	140264	250.000	259	
34 Bromochloromethane	49	3.274	3.266	(0.743)	30707	50.0000	50.7	
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	85973	250.000	270	
36 Chloroform	83	3.367	3.367	(0.764)	89867	50.0000	51.2	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	57433	50.0000	51.2	
38 1,1,1-Trichloroethane	97	3.589	3.581	(0.815)	82273	50.0000	52.6	
39 Cyclohexane	56	3.660	3.660	(0.831)	70805	50.0000	52.4	
40 Carbon Tetrachloride	117	3.796	3.803	(0.862)	75720	50.0000	53.9	
41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	62924	50.0000	53.8	
42 Isobutyl alcohol	43	3.997	3.990	(0.907)	8136	250.000	298	
43 Benzene	78	4.054	4.061	(0.920)	188419	50.0000	50.2	
44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	66142	50.0000	50.6	
45 2,2,4-Trimethylpentane	57	4.434	4.405	(1.007)	36367	50.0000	47.4	
46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	140513	50.0000	50.8	
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	207134	50.0000		
48 Trichloroethene	95	4.835	4.835	(1.098)	53686	50.0000	51.9	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	59452	50.0000	51.6	
50 1,2-Dichloropropane	63	5.079	5.079	(1.153)	44518	50.0000	52.0	
51 Dibromomethane	93	5.200	5.200	(1.180)	33005	50.0000	53.7	
52 1,4-Dioxane	88	5.258	5.258	(1.193)	3719	1000.00	1130	
53 Methyl methacrylate	69	5.258	5.258	(1.193)	42289	50.0000	54.7	
54 Bromodichloromethane	83	5.387	5.387	(1.223)	65532	50.0000	53.3	
55 2-Chloroethyl vinyl ether	63	5.745	5.738	(0.786)	170573	250.000	263	
56 cis-1,3-Dichloropropene	75	5.867	5.866	(0.803)	78256	50.0000	52.4	
57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	273609	250.000	259	
$ 58 Toluene-d8	98	6.132	6.131	(0.839)	206419	50.0000	50.0	
59 Toluene	91	6.203	6.203	(0.849)	222808	50.0000	49.4	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	75443	50.0000	53.6	
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	71002	50.0000	52.3	
62 1,1,2-Trichloroethane	83	6.590	6.583	(0.902)	37897	50.0000	51.5	
63 Tetrachloroethene	166	6.697	6.697	(0.917)	70683	50.0000	51.0	
64 1,3-Dichloropropane	76	6.726	6.719	(0.921)	74940	50.0000	50.1	
65 2-Hexanone	43	6.812	6.812	(0.932)	212492	250.000	268	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	59854	50.0000	53.8	
67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	53401	50.0000	54.3	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	162353	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	154545	50.0000	50.0	
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	57443	50.0000	52.5	
71 Ethylbenzene	106	7.407	7.407	(1.014)	83205	50.0000	50.6	
72 m&p-Xylene	106	7.485	7.485	(1.025)	103702	50.0000	50.5	
73 o-Xylene	106	7.722	7.722	(1.057)	99350	50.0000	50.9	
74 Styrene	104	7.736	7.736	(1.059)	172143	50.0000	51.6	
75 Bromoform	173	7.836	7.836	(0.910)	46109	50.0000	45.4	
76 Isopropylbenzene	105	7.937	7.937	(1.086)	264286	50.0000	50.2	
$ 77 4-Bromofluorobenzene	95	8.023	8.015	(1.098)	79280	50.0000	50.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	93679	50.0000	50.7	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	68348	50.0000	52.5	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	24244	50.0000	51.2	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	20309	50.0000	52.4	
82 n-Propylbenzene	91	8.166	8.159	(0.948)	299874	50.0000	50.3	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	171846	50.0000	49.6	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	217926	50.0000	50.0	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	66842	50.0000	51.2	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	222504	50.0000	49.7(M)	LT
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	222833	50.0000	50.0	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	269658	50.0000	50.2	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	125179	50.0000	48.6	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	239080	50.0000	50.3	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	89405	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	125765	50.0000	49.6	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	205056	50.0000	49.0	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	188764	50.0000	49.7	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	114438	50.0000	49.8	
96 Hexachloroethane	201	8.925	8.925	(1.037)	39905	50.0000	55.6	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	16810	50.0000	48.3	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	67615	50.0000	49.3	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	34086	50.0000	50.8	
100 Naphthalene	128	9.627	9.627	(1.118)	183018	50.0000	51.2	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	56430	50.0000	52.2	
102 2,methyl-naphthalene	142	10.129	10.129	(1.176)	65594	50.0000	53.9	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	56763	50.0000	54.6	

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.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a11cal7.d

Page 4

Date : 24-JAN-2023 17:16

Client ID: 8260-CAL7

Instrument: 50mv2a.i

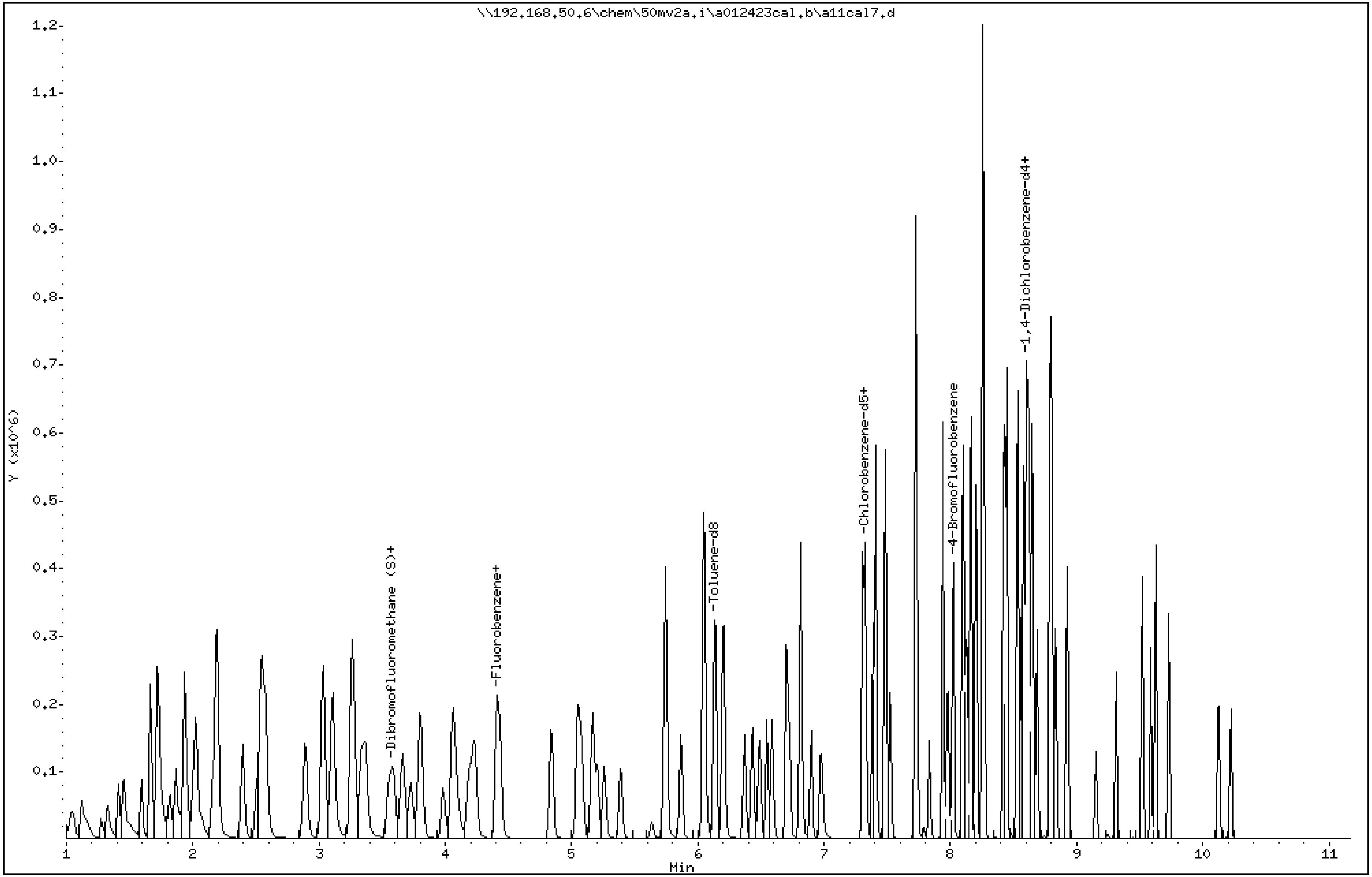
Sample Info: 8260-CAL7,336624

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 24-JAN-2023 17:16

Client ID: 8260-CAL7

Instrument: 50mv2a.i

Sample Info: 8260-CAL7,336624

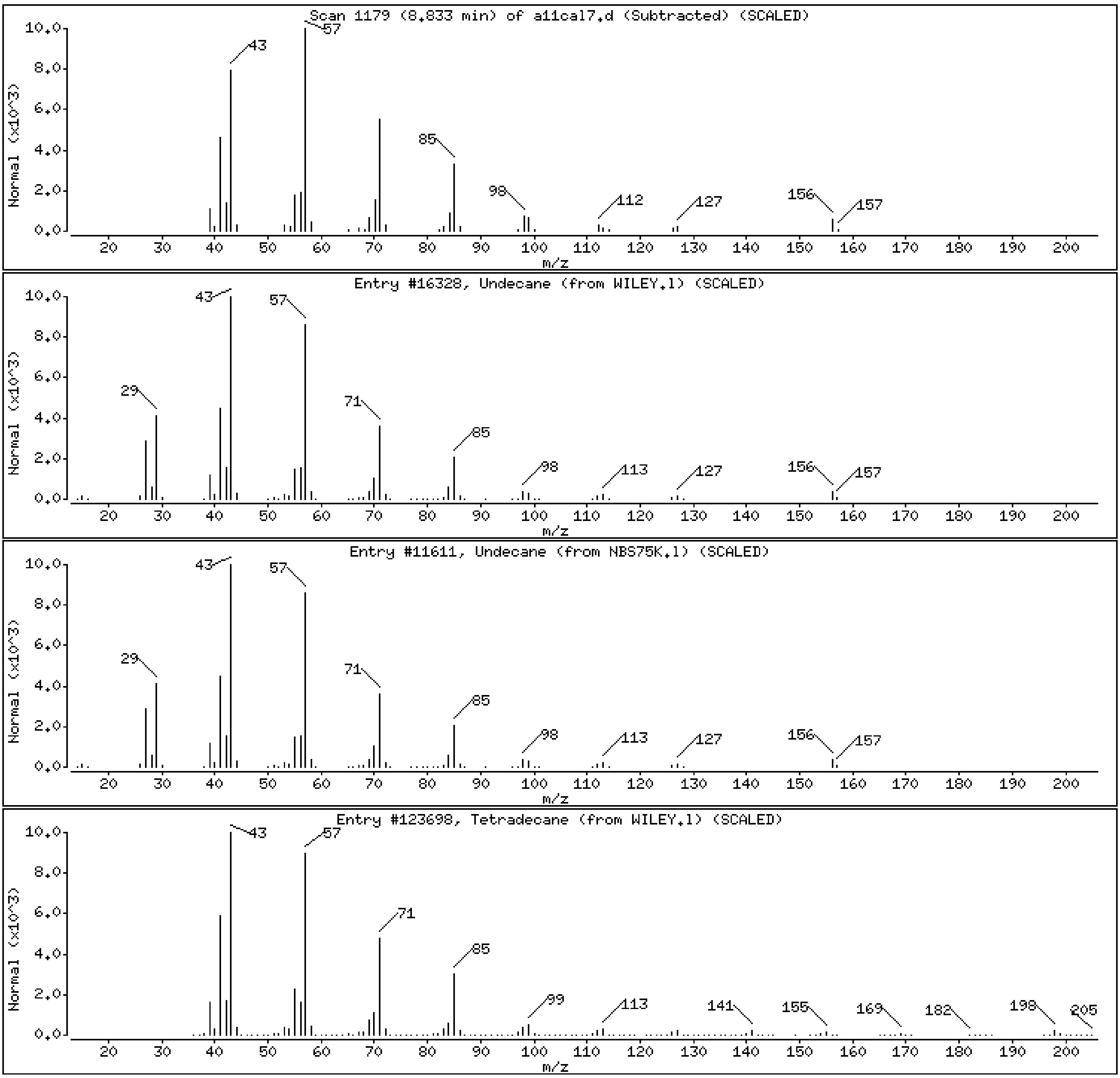
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	WILEY.l	16328	94	C11H24	156
Undecane	1120-21-4	NBS75K.l	11611	94	C11H24	156
Tetradecane	629-59-4	WILEY.l	123698	90	C14H30	198



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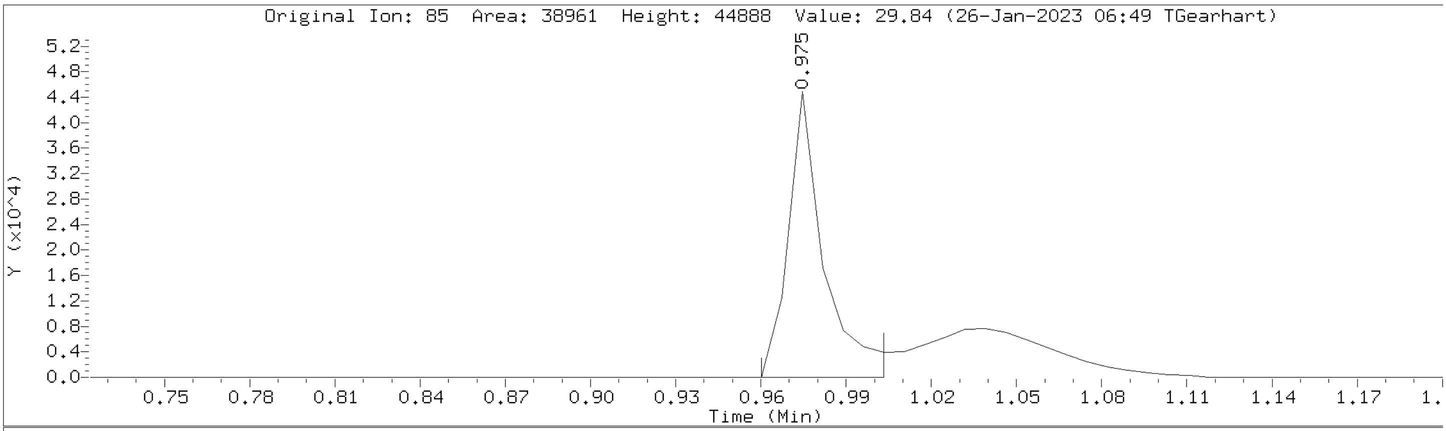
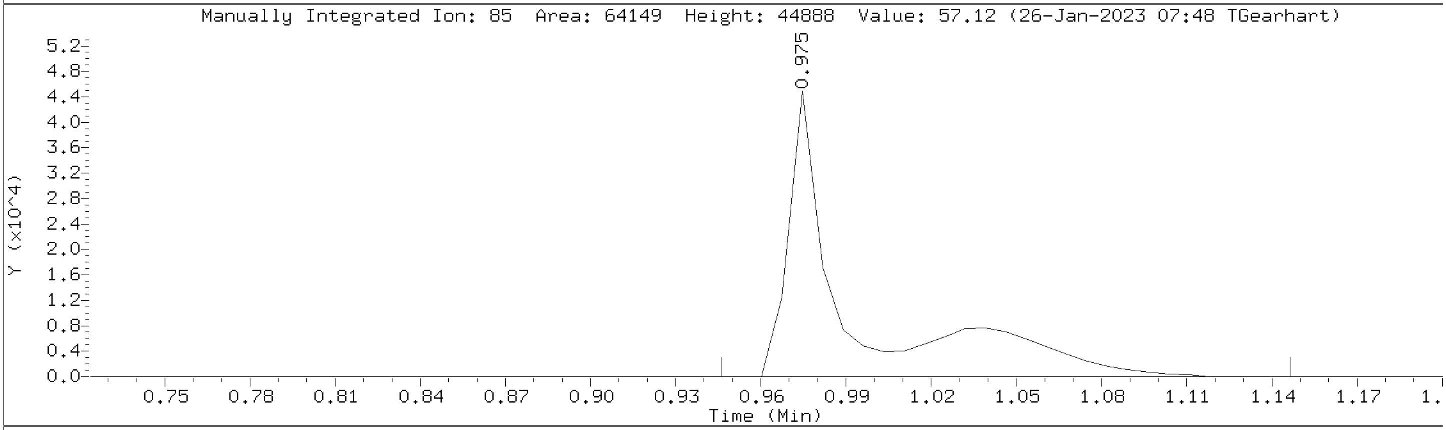
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4

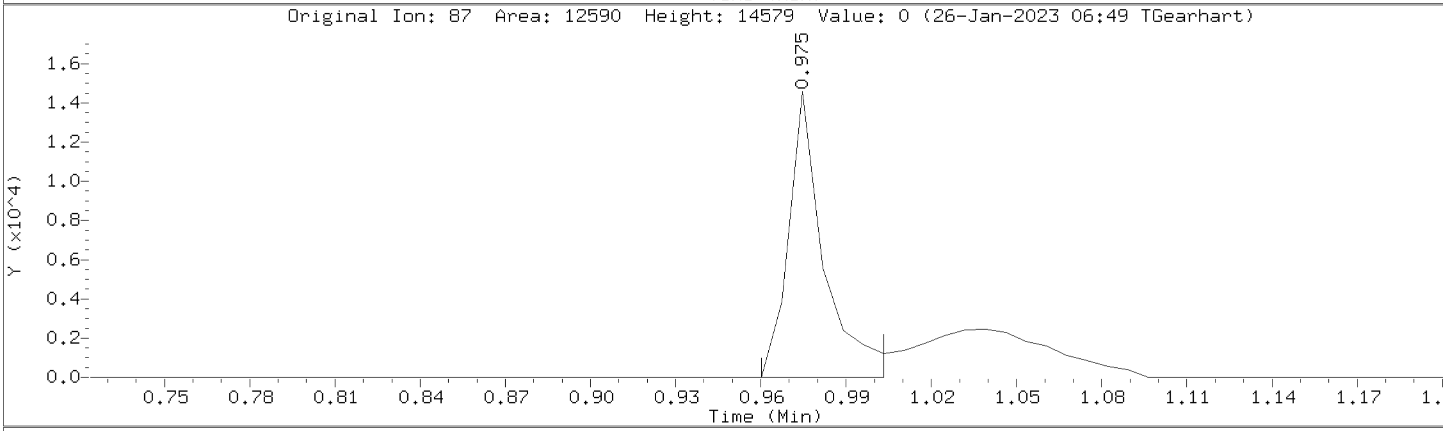
Original Ion: 85 Area: 38961 Height: 44888 Value: 29.84 (26-Jan-2023 06:49 TGearhart)



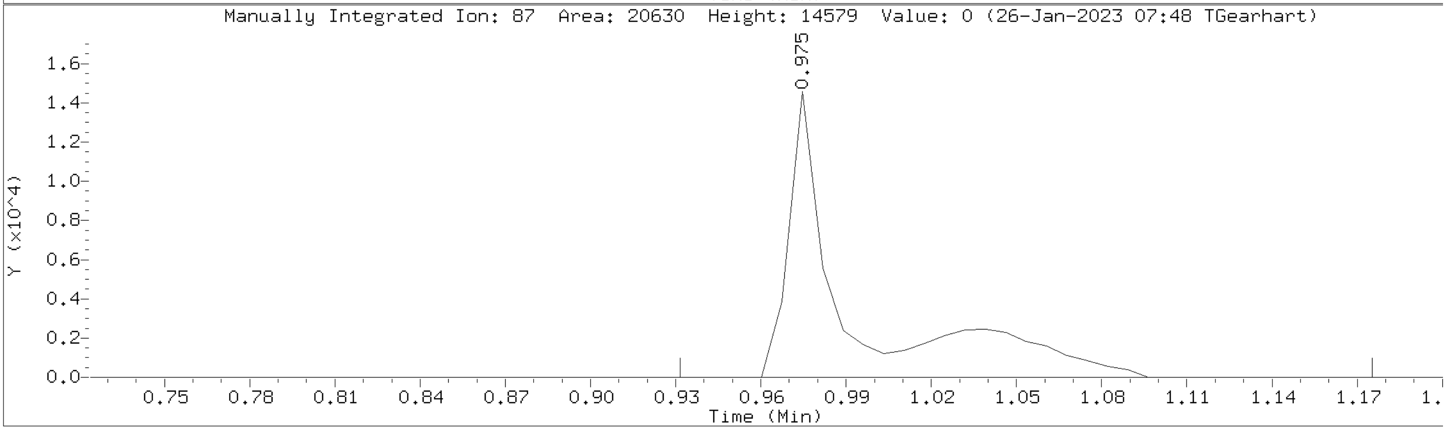
Manually Integrated Ion: 85 Area: 64149 Height: 44888 Value: 57.12 (26-Jan-2023 07:48 TGearhart)



Original Ion: 87 Area: 12590 Height: 14579 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 87 Area: 20630 Height: 14579 Value: 0 (26-Jan-2023 07:48 TGearhart)



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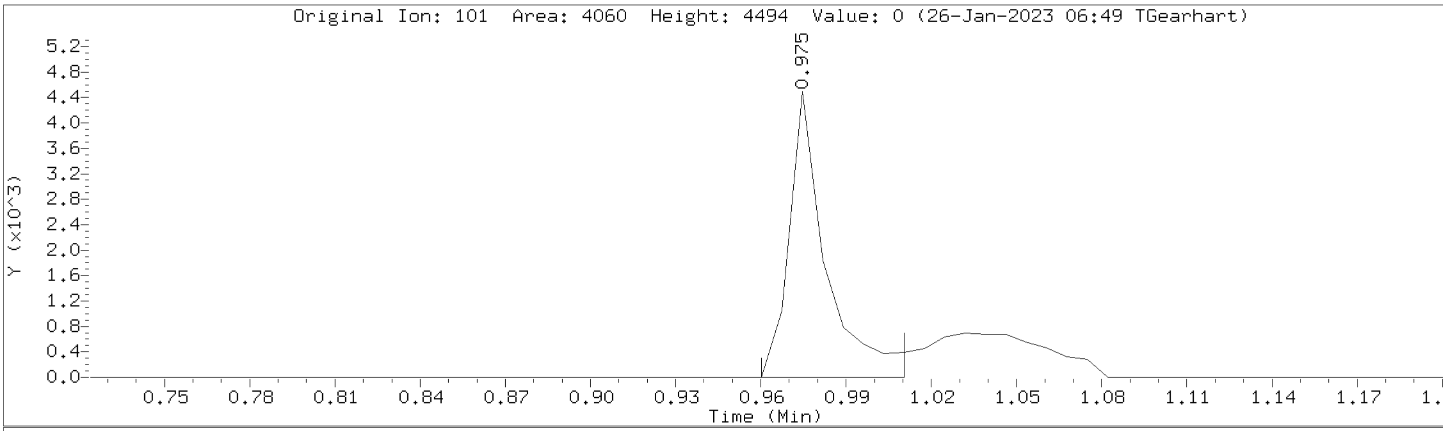
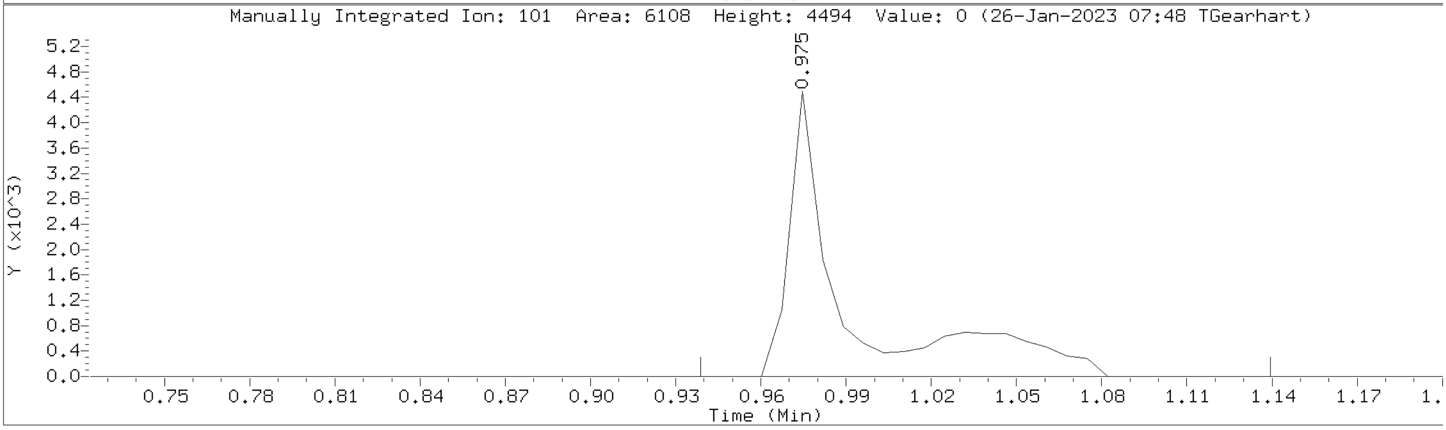
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Original Ion: 101 Area: 4060 Height: 4494 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 101 Area: 6108 Height: 4494 Value: 0 (26-Jan-2023 07:48 TGearhart)



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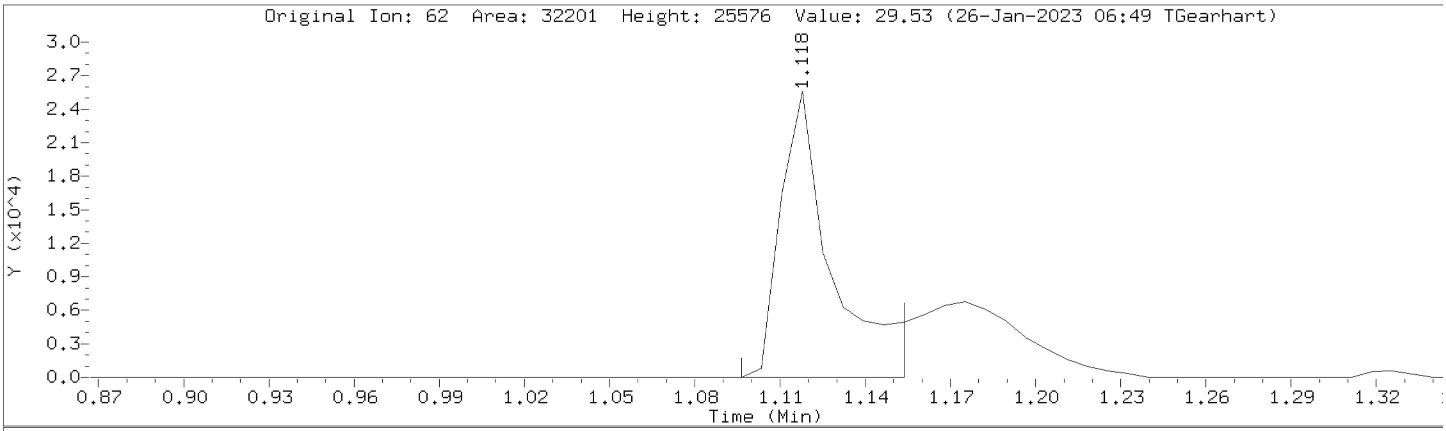
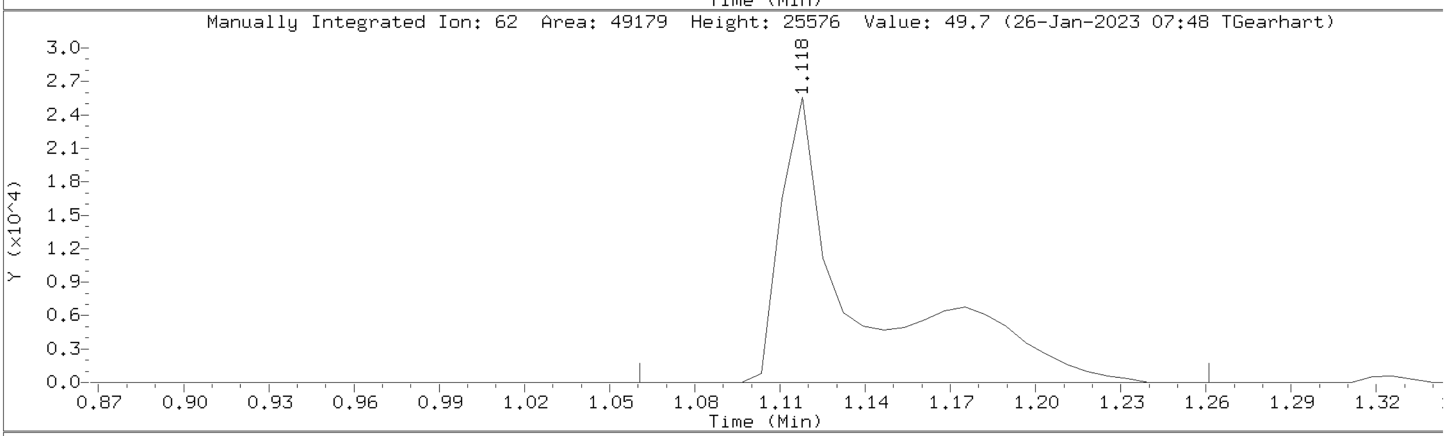
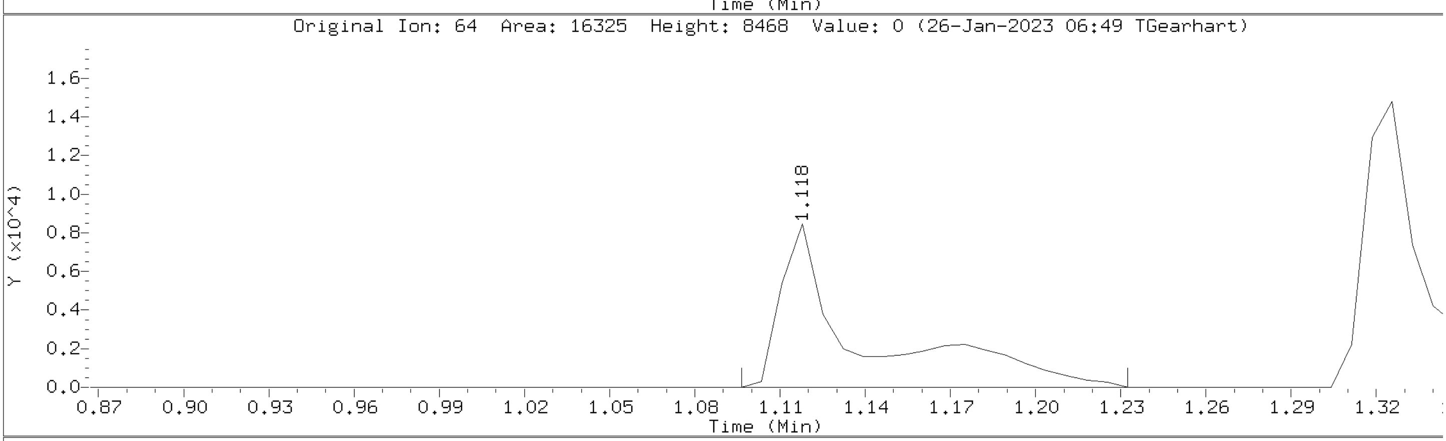
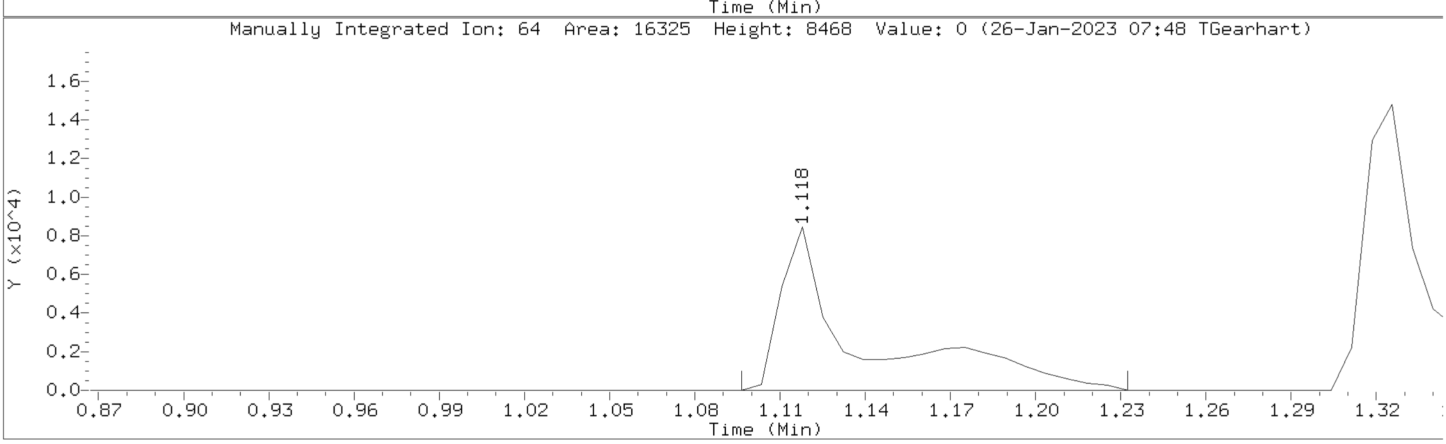
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4









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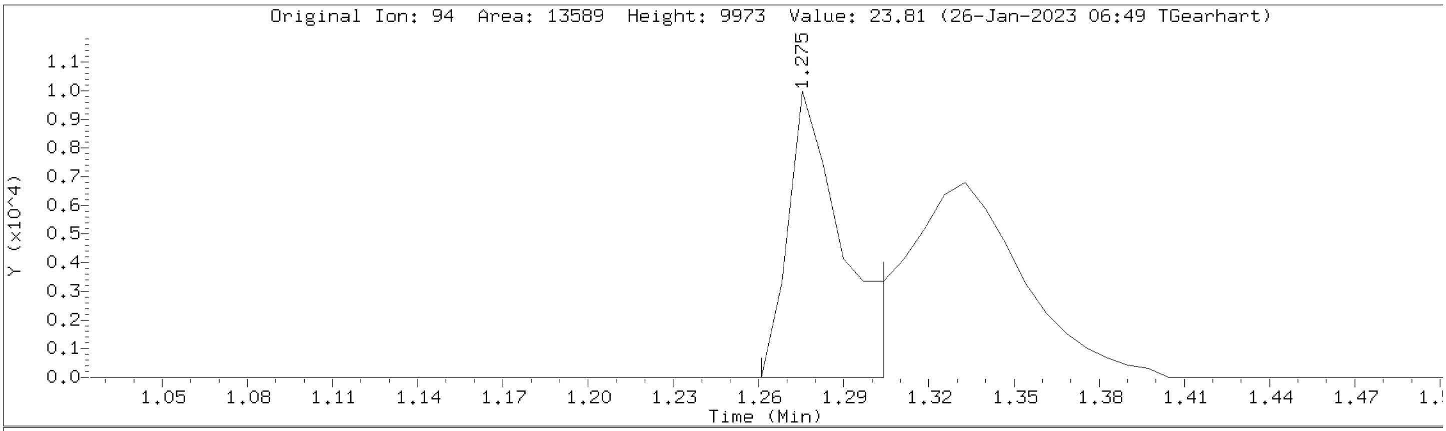
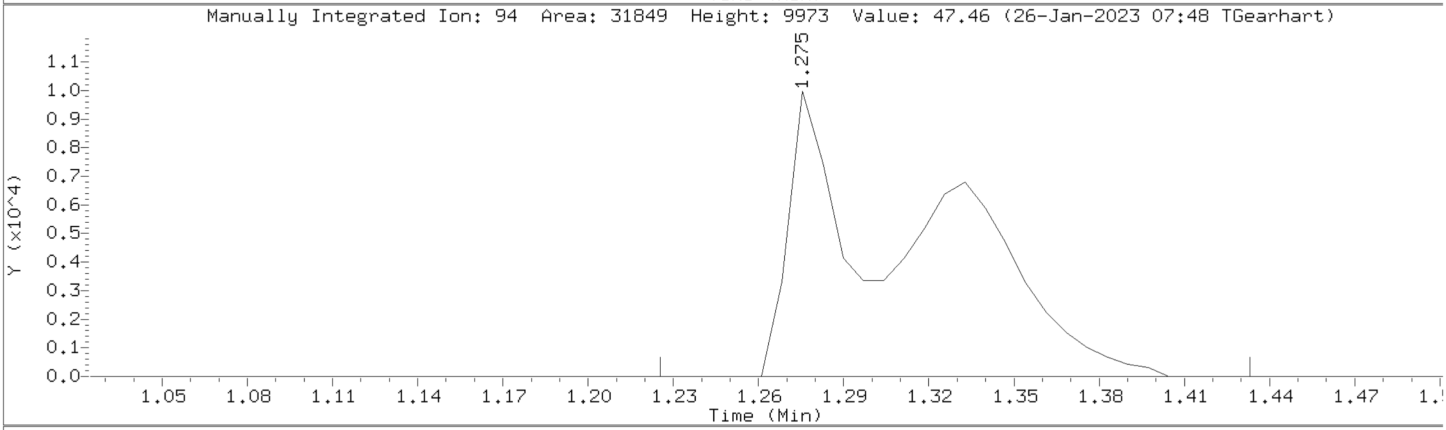
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

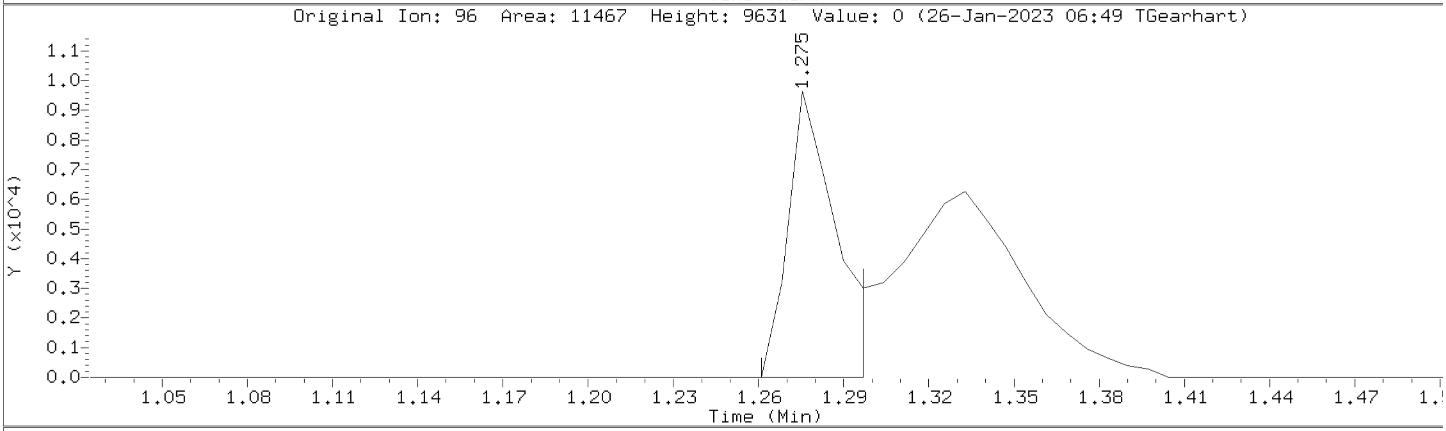
Original Ion: 94 Area: 13589 Height: 9973 Value: 23.81 (26-Jan-2023 06:49 TGearhart)



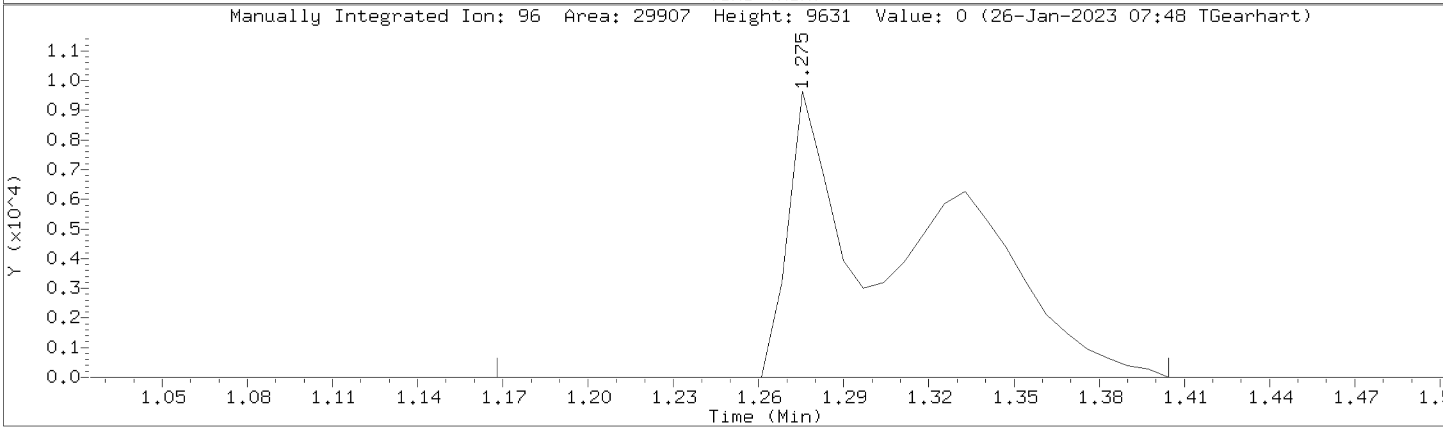
Manually Integrated Ion: 94 Area: 31849 Height: 9973 Value: 47.46 (26-Jan-2023 07:48 TGearhart)



Original Ion: 96 Area: 11467 Height: 9631 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 96 Area: 29907 Height: 9631 Value: 0 (26-Jan-2023 07:48 TGearhart)



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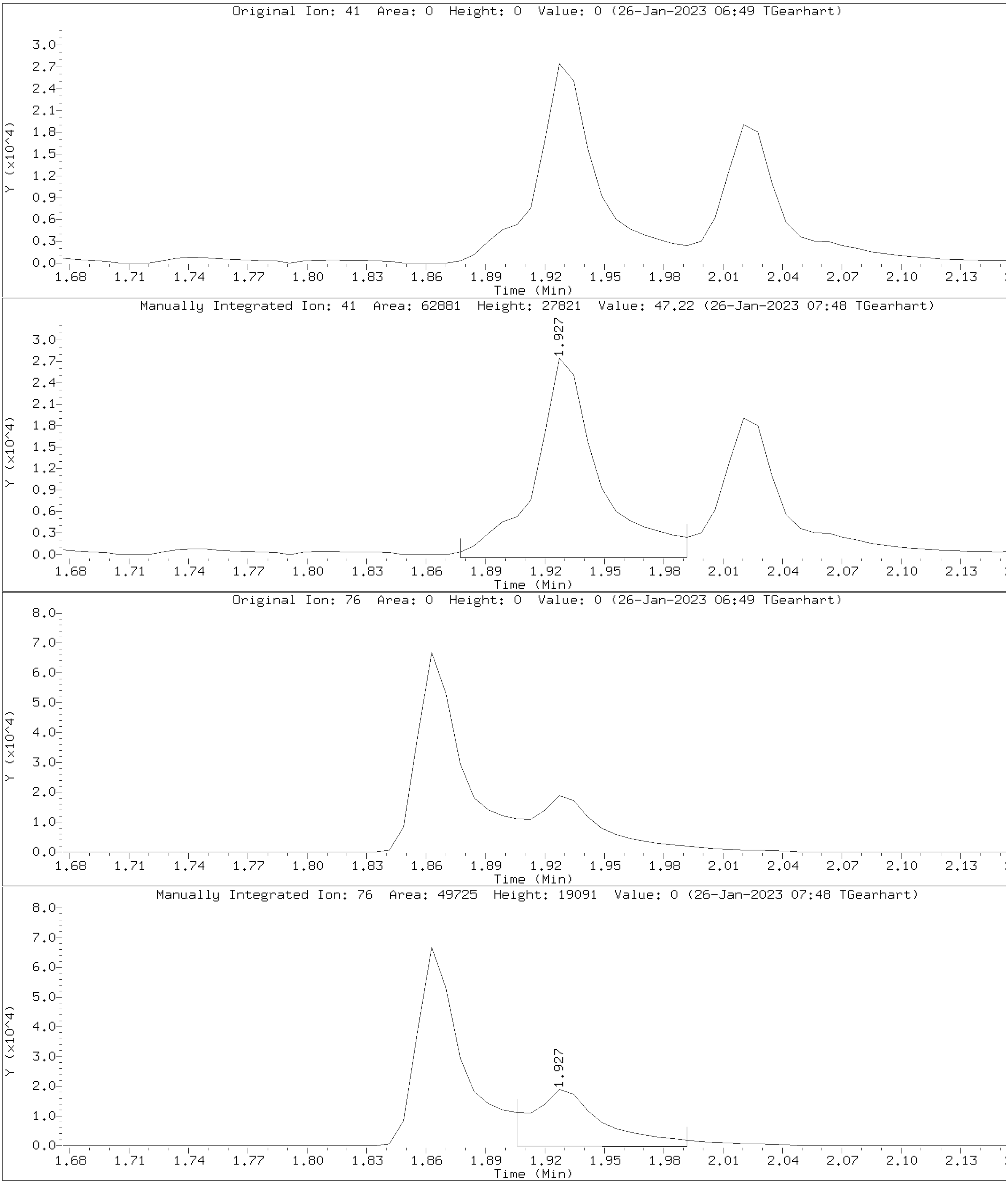
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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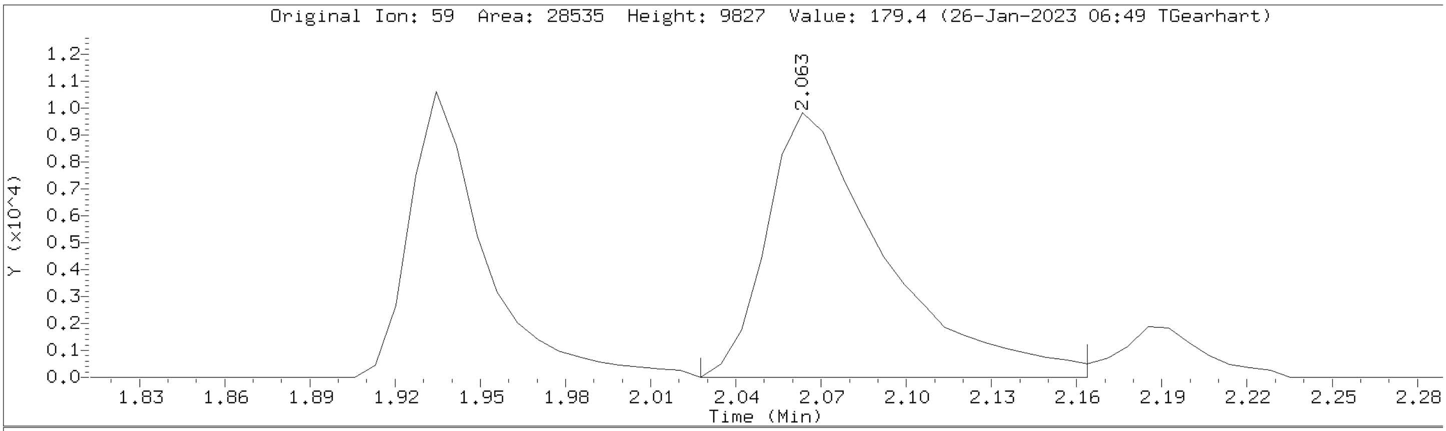
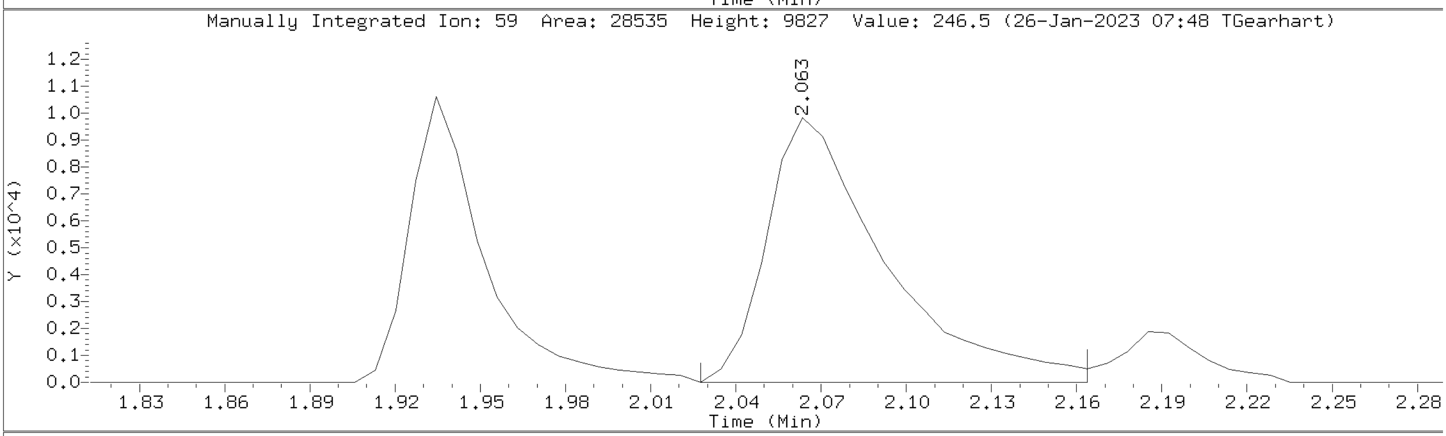
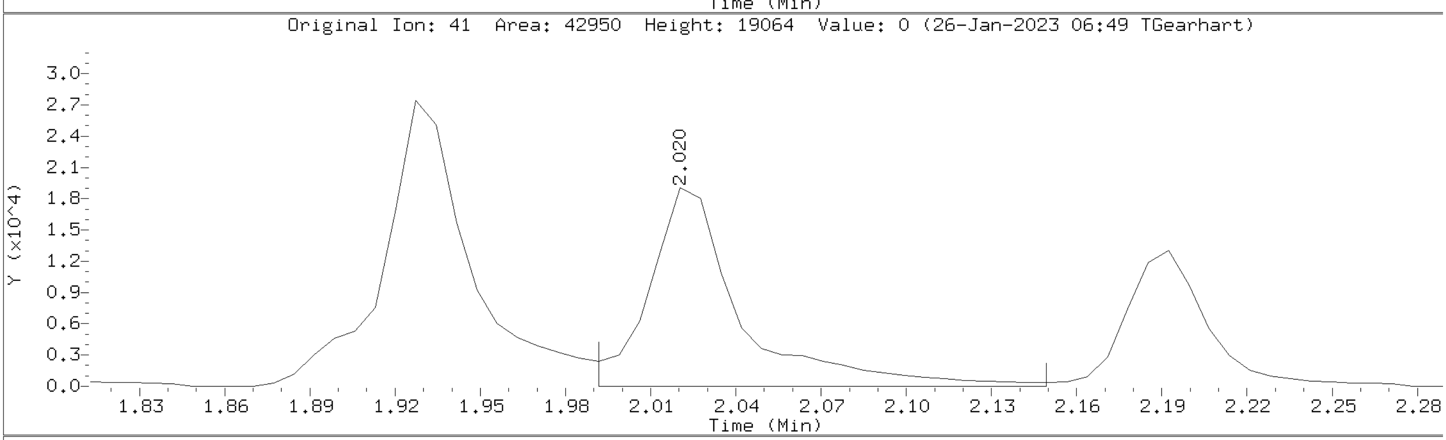
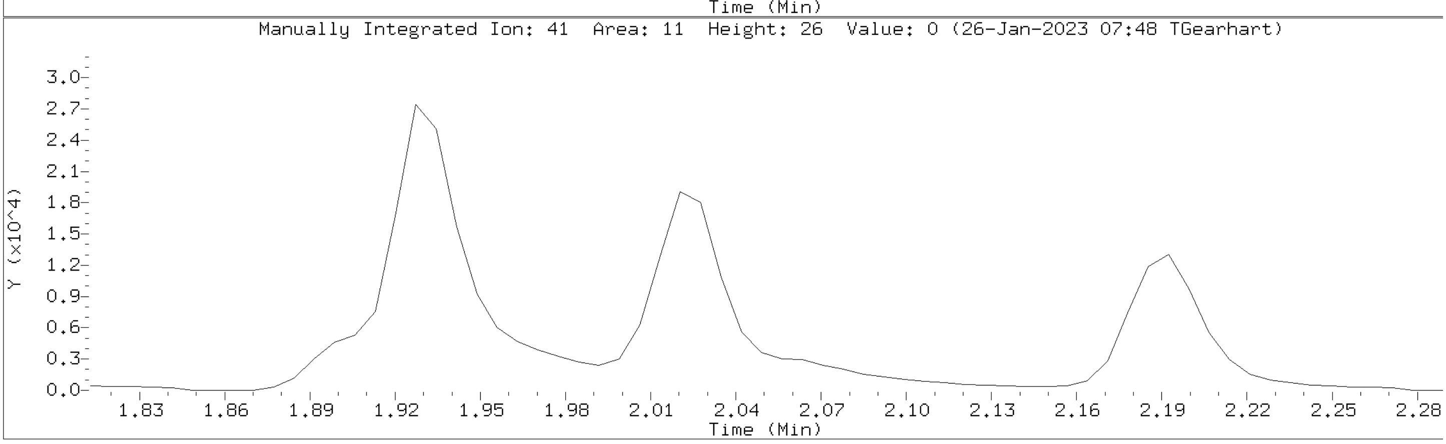
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: tert-Butyl Alcohol   Review Code: WP
CAS Number: 75-65-0









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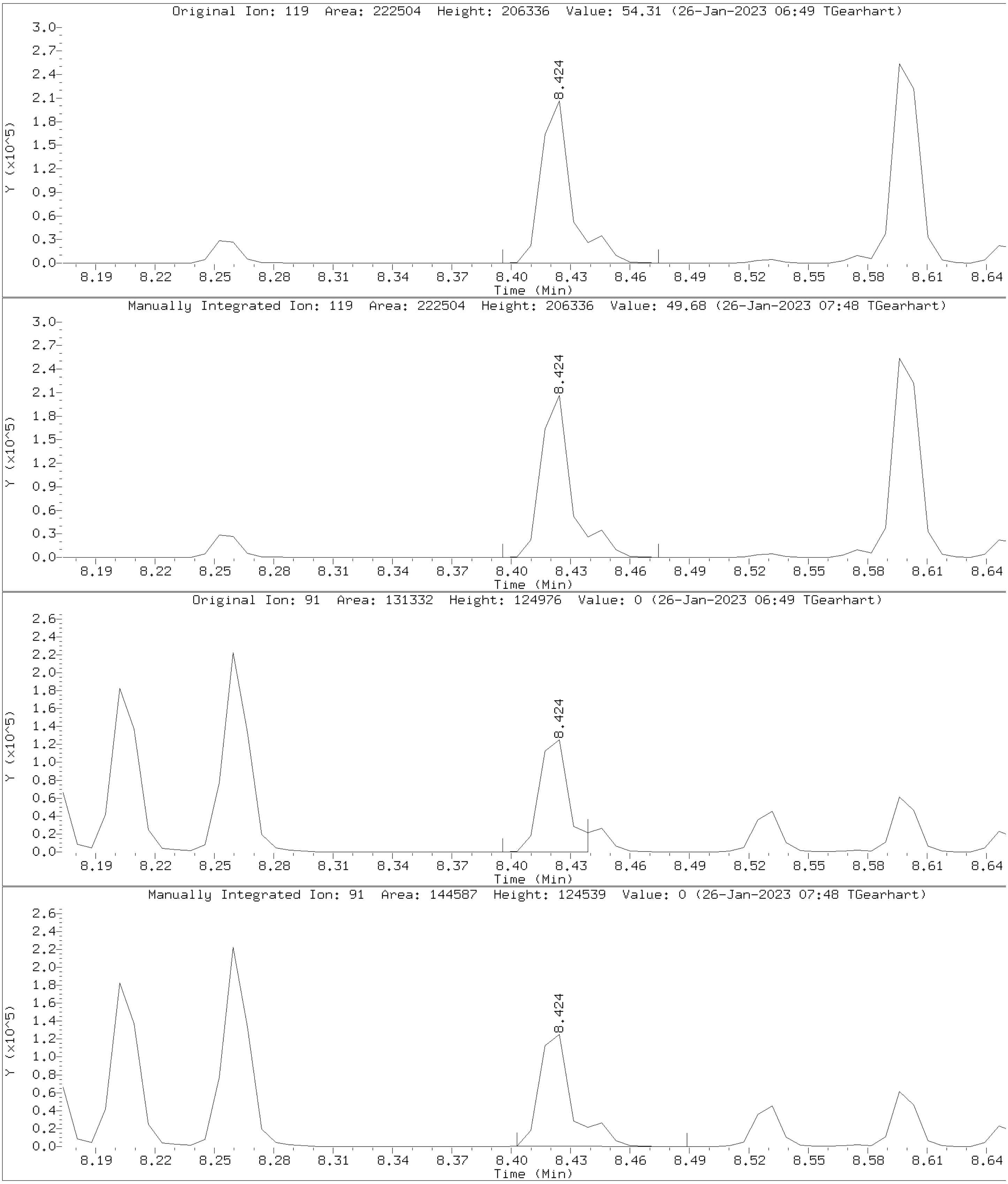
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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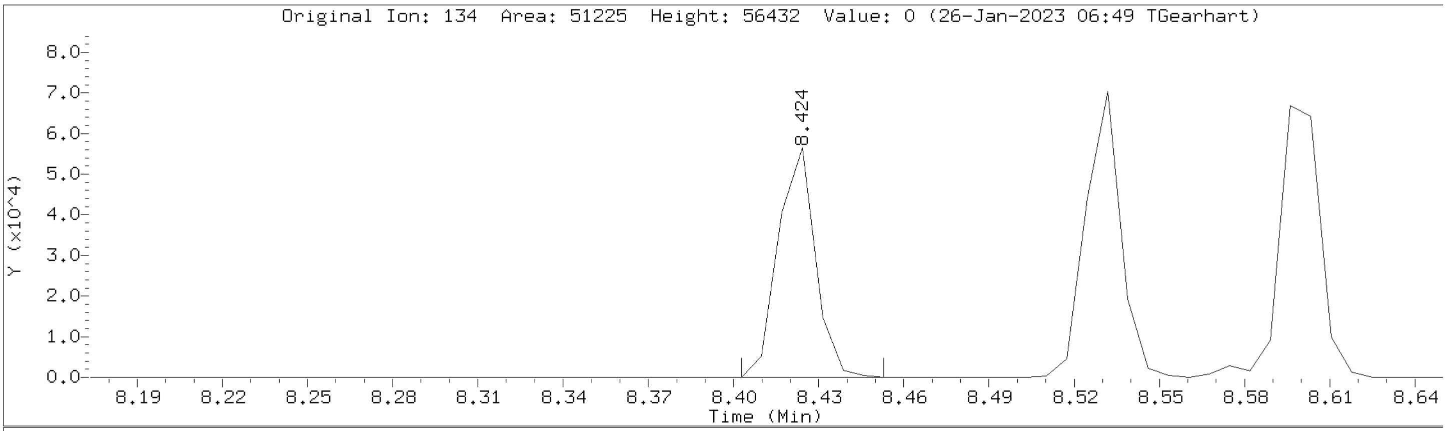
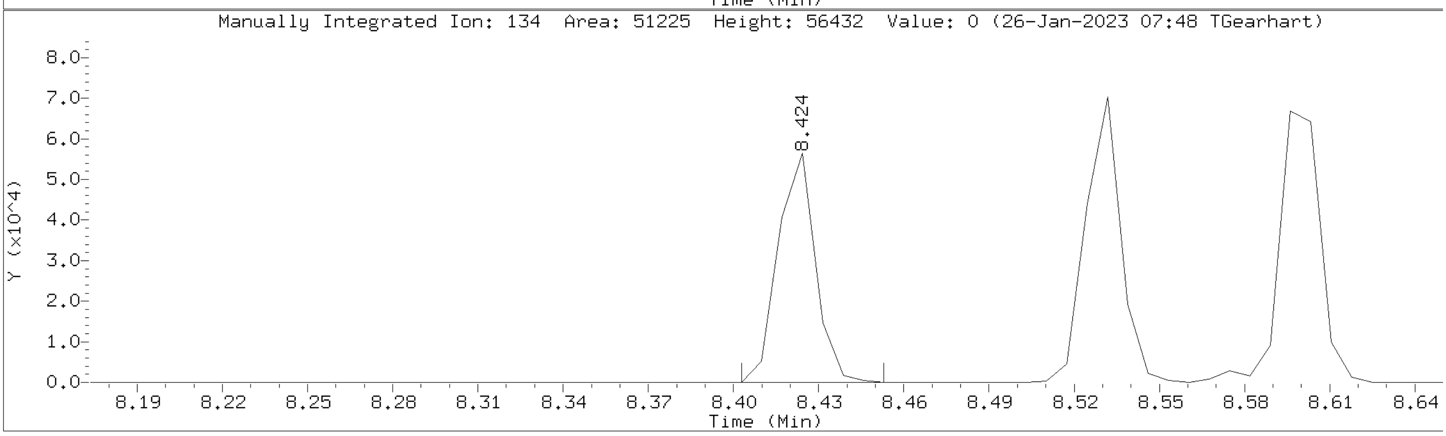
Injection Date: 24-JAN-2023 17:16
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL7





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a12cal8.d
Lab Smp Id: 8260-CAL8   Client Smp ID: 8260-CAL8
Inj Date : 24-JAN-2023 17:45
Operator : tkg   Inst ID: 50mv2a.i
Smp Info : 8260-cal8,336625
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart   Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19   Cal File: a07cal3.d
Als bottle: 12   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	0.974	0.975	(0.221)	197424	150.000	172(M)	LT
2 Chloromethane	50	1.132	1.139	(0.257)	111916	150.000	146	
3 Vinyl Chloride	62	1.110	1.117	(0.252)	151631	150.000	148(M)	LT
4 Bromomethane	94	1.275	1.275	(0.289)	97385	150.000	140(M)	LT
5 Chloroethane	64	1.318	1.325	(0.299)	90594	150.000	150	
6 Trichlorofluoromethane	101	1.447	1.454	(0.329)	241463	150.000	151	
7 Diethyl ether	74	1.590	1.590	(0.361)	87371	150.000	157	
8 Acrolein	56	1.655	1.662	(0.376)	611440	3000.00	3100	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	158695	150.000	159	
10 1,1-Dichloroethene	96	1.719	1.726	(0.390)	135229	150.000	158	
11 Acetone	43	1.740	1.740	(0.395)	207665	750.000	628	
12 Iodomethane	142	1.812	1.819	(0.411)	241723	150.000	161	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	326347	150.000	142	
14 Acetonitrile	39	1.927	1.927	(0.437)	92430	750.000	588	
15 allyl chloride	41	1.927	1.927	(0.437)	174504	150.000	128(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	517938	750.000	661	
17 Methylene Chloride	84	1.998	2.006	(0.454)	143972	150.000	131	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	66705	750.000	556(M)	WP
19 Acrylonitrile	53	2.156	2.156	(0.489)	296245	750.000	771	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	449855	150.000	160	
21 1,2-Dichloroethene (trans)	96	2.185	2.192	(0.496)	158227	150.000	161	
22 n-Hexane	57	2.392	2.392	(0.543)	199609	150.000	161	
23 1,1-Dichloroethane	63	2.507	2.507	(0.569)	227677	150.000	148	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.536	2.536	(0.576)	1217680	600.000	614	
	25 Diisopropyl ether	45	2.564	2.557	(0.582)	378029	150.000	152	
	26 chloroprene	53	2.579	2.579	(0.585)	213384	150.000	161	
	27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	427983	150.000	160	
	28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	173731	150.000	159	
	29 2,2-Dichloropropane	77	3.030	3.023	(0.688)	217130	150.000	163	
	30 2-Butanone	43	3.037	3.037	(0.689)	316180	750.000	646	
	31 Propionitrile	54	3.101	3.101	(0.704)	95405	750.000	783	
	32 Ethyl Acetate	88	3.109	3.109	(0.706)	48673	750.000	756	
	33 Methacrylonitrile	41	3.266	3.259	(0.741)	426074	750.000	768	
	34 Bromochloromethane	49	3.273	3.266	(0.743)	91371	150.000	146	
	35 Tetrahydrofuran	42	3.338	3.338	(0.758)	237469	750.000	727	
	36 Chloroform	83	3.367	3.367	(0.764)	281617	150.000	157	
$	37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	58326	50.0000	50.7	
	38 1,1,1-Trichloroethane	97	3.589	3.581	(0.815)	265522	150.000	165	
	39 Cyclohexane	56	3.660	3.660	(0.831)	227494	150.000	164	
	40 Carbon Tetrachloride	117	3.796	3.803	(0.862)	251299	150.000	174	
	41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	200997	150.000	168	
	42 Isobutyl alcohol	43	3.997	3.990	(0.907)	20771	750.000	743	
	43 Benzene	78	4.061	4.061	(0.922)	584276	150.000	152	
	44 1,2-Dichloroethane	62	4.083	4.076	(0.927)	210263	150.000	157	
	45 2,2,4-Trimethylpentane	57	4.434	4.405	(1.007)	105741	150.000	151	
	46 tert-Amylmethyl ether	73	4.233	4.226	(0.961)	443614	150.000	156	
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	212287	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	172040	150.000	162	
	49 Methylcyclohexane	55	5.050	5.050	(1.146)	191168	150.000	162	
	50 1,2-Dichloropropane	63	5.078	5.079	(1.153)	139618	150.000	159	
	51 Dibromomethane	93	5.200	5.200	(1.180)	106958	150.000	170	
	52 1,4-Dioxane	88	5.258	5.258	(1.193)	10583	3000.00	3140	
	53 Methyl methacrylate	69	5.258	5.258	(1.193)	135288	150.000	171	
	54 Bromodichloromethane	83	5.387	5.387	(1.223)	212017	150.000	168	
	55 2-Chloroethyl vinyl ether	63	5.745	5.738	(0.786)	526312	750.000	786	
	56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	249268	150.000	162	
	57 4-Methyl-2-Pentanone	43	6.053	6.046	(0.828)	812227	750.000	746	
$	58 Toluene-d8	98	6.139	6.131	(0.840)	208842	50.0000	49.0	
	59 Toluene	91	6.203	6.203	(0.849)	692395	150.000	149	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	238099	150.000	164	
	61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	227361	150.000	162	
	62 1,1,2-Trichloroethane	83	6.590	6.583	(0.902)	121241	150.000	160	
	63 Tetrachloroethene	166	6.705	6.697	(0.918)	226271	150.000	158	
	64 1,3-Dichloropropane	76	6.726	6.719	(0.921)	234351	150.000	152	
	65 2-Hexanone	43	6.819	6.812	(0.933)	611750	750.000	748	
	66 Dibromochloromethane	129	6.898	6.898	(0.944)	194930	150.000	170	
	67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	170505	150.000	168	
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	167530	50.0000		
	69 Chlorobenzene	112	7.328	7.328	(1.003)	473870	150.000	148	
	70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	185564	150.000	164	
	71 Ethylbenzene	106	7.414	7.407	(1.015)	257966	150.000	152	
	72 m&p-Xylene	106	7.485	7.485	(1.025)	312877	150.000	148	
	73 o-Xylene	106	7.729	7.722	(1.058)	303106	150.000	150	
	74 Styrene	104	7.736	7.736	(1.059)	513023	150.000	149	
	75 Bromoform	173	7.836	7.836	(0.909)	155582	150.000	152	
	76 Isopropylbenzene	105	7.944	7.937	(1.087)	785350	150.000	145	
$	77 4-Bromofluorobenzene	95	8.023	8.015	(1.098)	78964	50.0000	48.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.101	8.094	(1.109)	284652	150.000	149	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.940)	207540	150.000	160	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	74876	150.000	159	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	61751	150.000	154	
82 n-Propylbenzene	91	8.166	8.159	(0.948)	873786	150.000	148	
83 2-Chlorotoluene	91	8.209	8.202	(0.953)	503759	150.000	146	
84 1,3,5-Trimethylbenzene	105	8.259	8.252	(0.958)	645661	150.000	149	
85 4-Chlorotoluene	126	8.259	8.259	(0.958)	201470	150.000	155	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	665063	150.000	150(M)	LT
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.980)	652048	150.000	147	
88 sec-Butylbenzene	105	8.531	8.531	(0.990)	797419	150.000	150	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.996)	387769	150.000	152	
90 p-Isopropyltoluene	119	8.603	8.596	(0.998)	713353	150.000	151	
* 91 1,4-Dichlorobenzene-d4	152	8.617	8.610	(1.000)	88794	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.001)	378140	150.000	150	
93 1,2,3-Trimethylbenzene	105	8.653	8.646	(1.004)	612385	150.000	147	
94 n-Butylbenzene	91	8.789	8.789	(1.020)	573725	150.000	152	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	351771	150.000	154	
96 Hexachloroethane	201	8.925	8.925	(1.036)	131159	150.000	184	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.062)	53010	150.000	152	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.105)	219322	150.000	161	
99 Hexachlorobutadiene	225	9.591	9.591	(1.113)	114019	150.000	171	
100 Naphthalene	128	9.627	9.627	(1.117)	566690	150.000	160	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.129)	176586	150.000	164	
102 2,methyl-naphthalene	142	10.121	10.129	(1.175)	211587	150.000	175	
103 1-Methylnaphthalene	142	10.214	10.222	(1.185)	175549	150.000	170	

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.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a12cal8.d

Page 4

Date : 24-JAN-2023 17:45

Client ID: 8260-CAL8

Instrument: 50mv2a.i

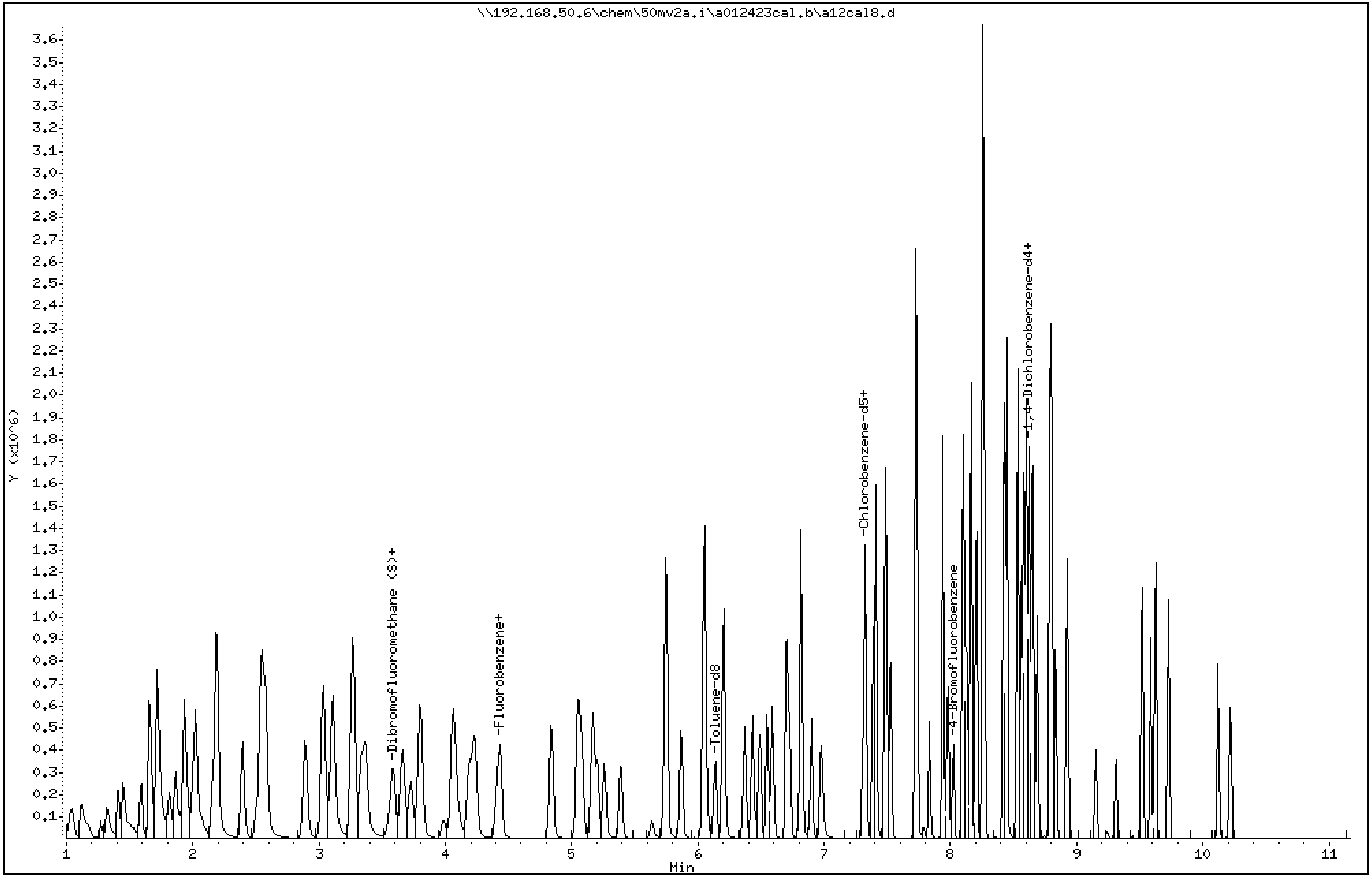
Sample Info: 8260-CAL8,336625

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 24-JAN-2023 17:45

Client ID: 8260-CAL8

Instrument: 50mv2a.i

Sample Info: 8260-CAL8,336625

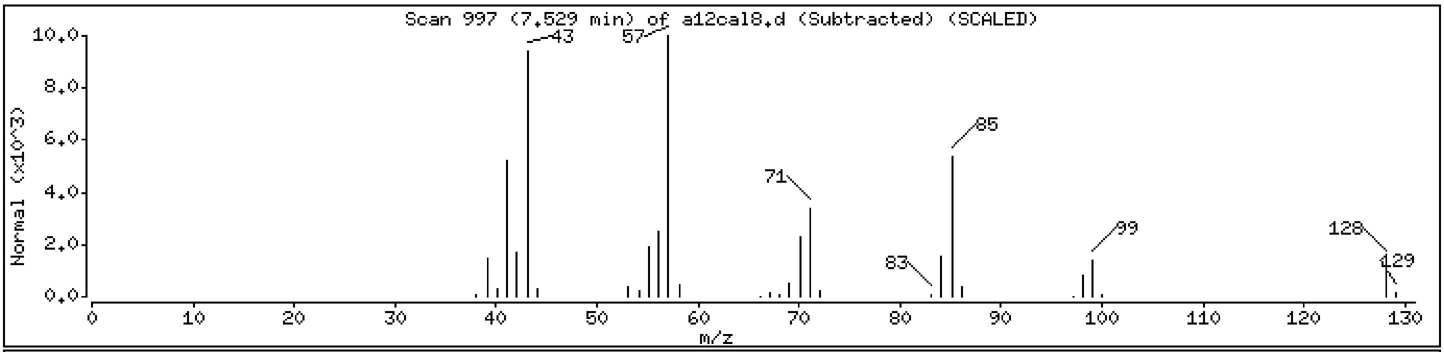
Purge Volume: 5.0

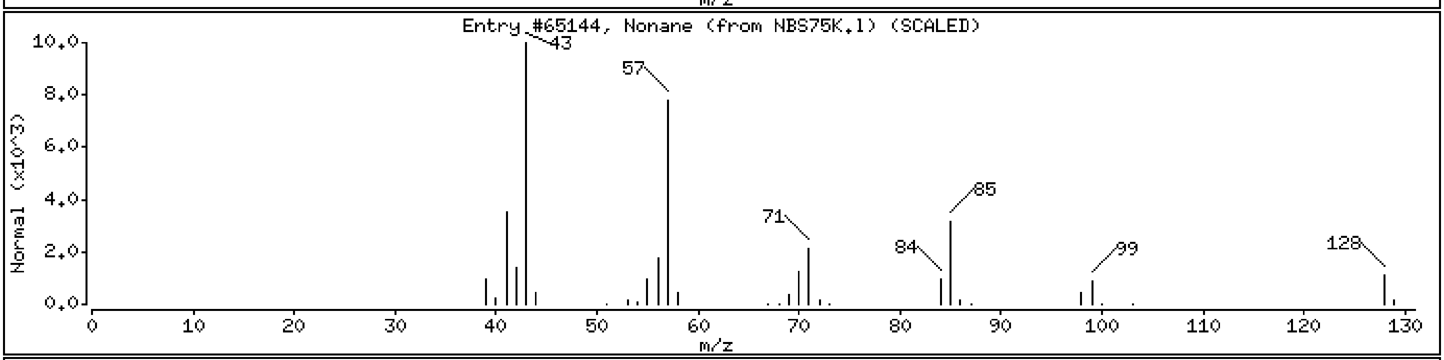
Operator: tkg

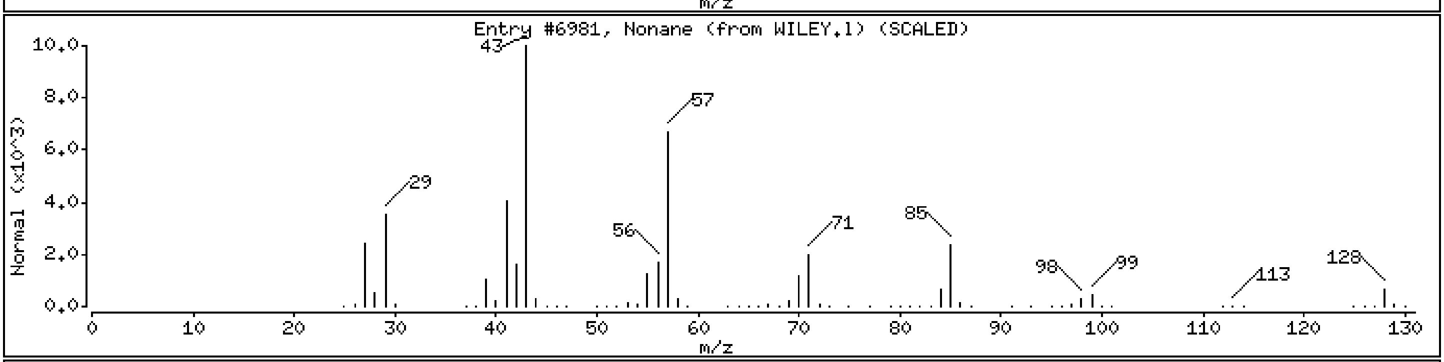
Column phase: DB-624

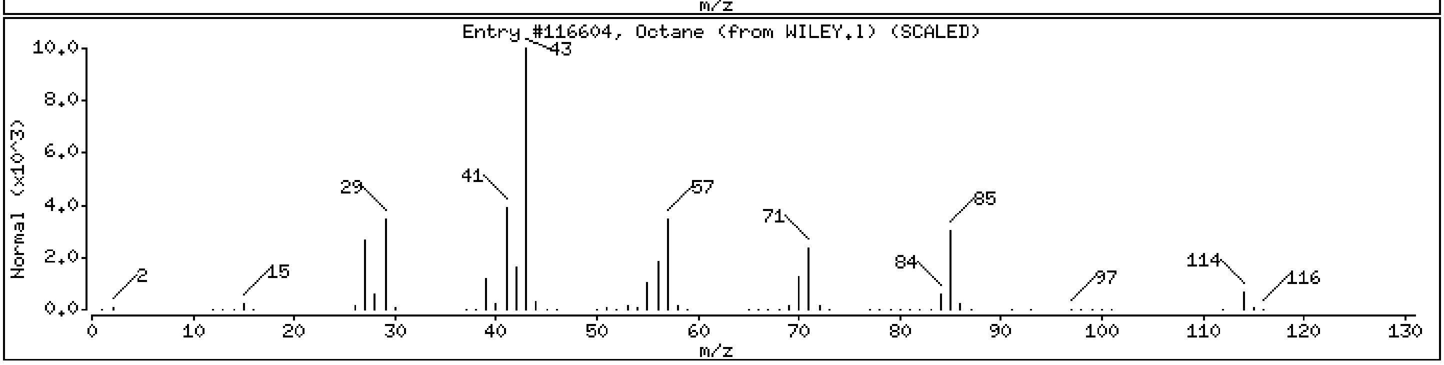
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonane	111-84-2	NBS75K.l	65144	96	C9H20	128
Nonane	111-84-2	WILEY.l	6981	95	C9H20	128
Octane	111-65-9	WILEY.l	116604	72	C8H18	114









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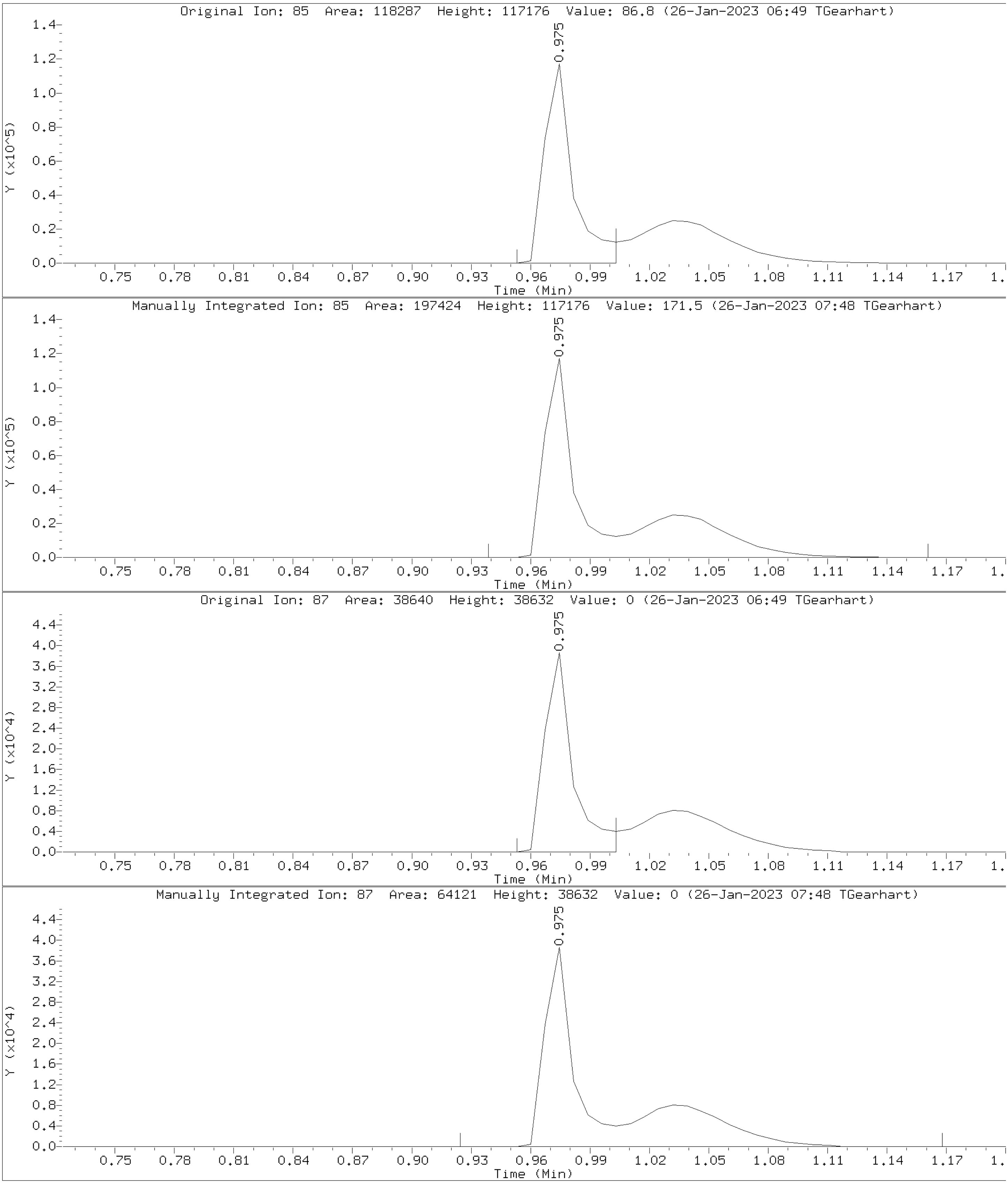
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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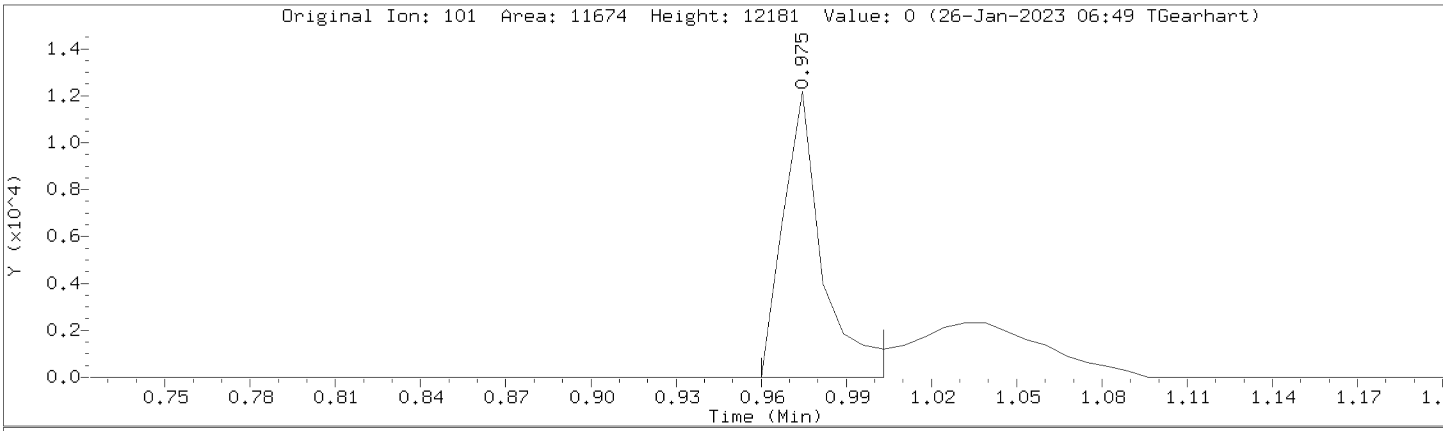
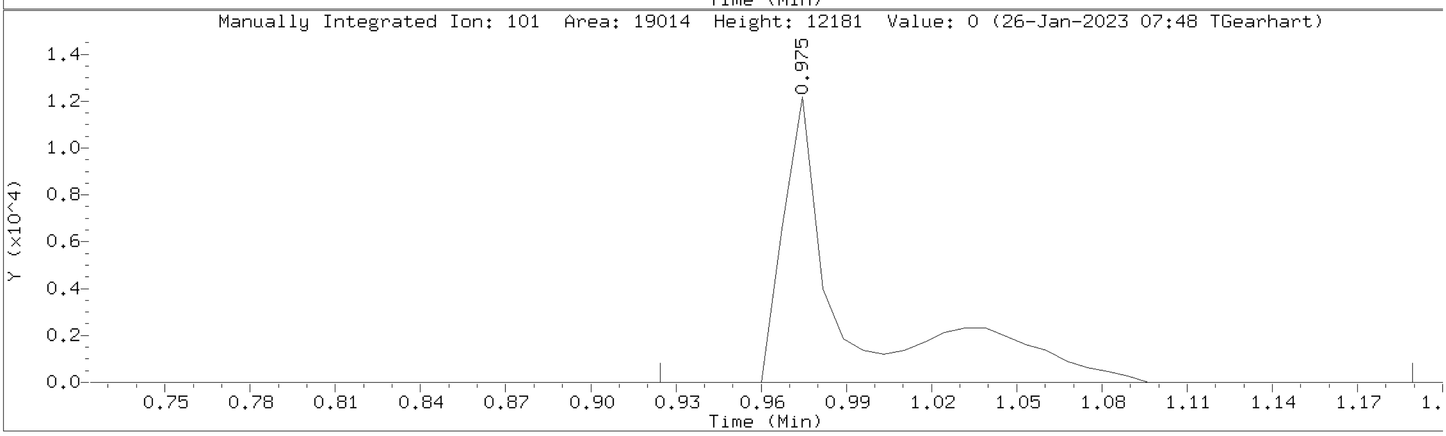
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8





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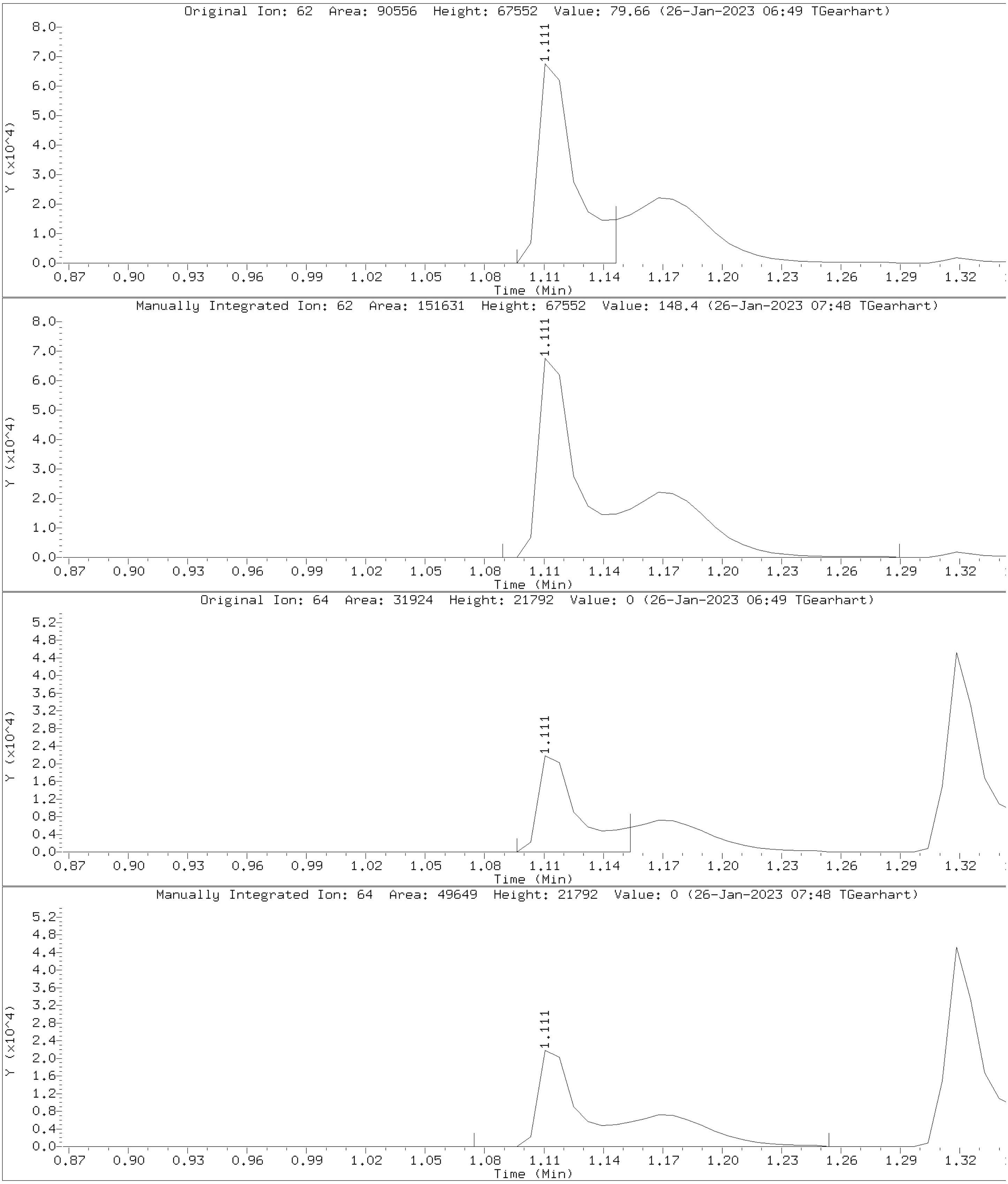
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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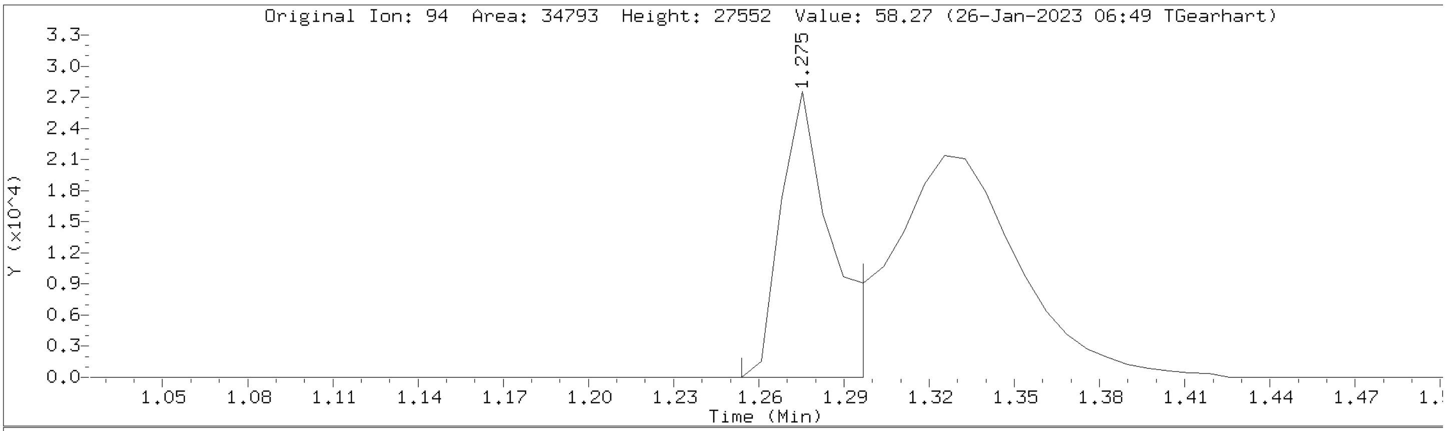
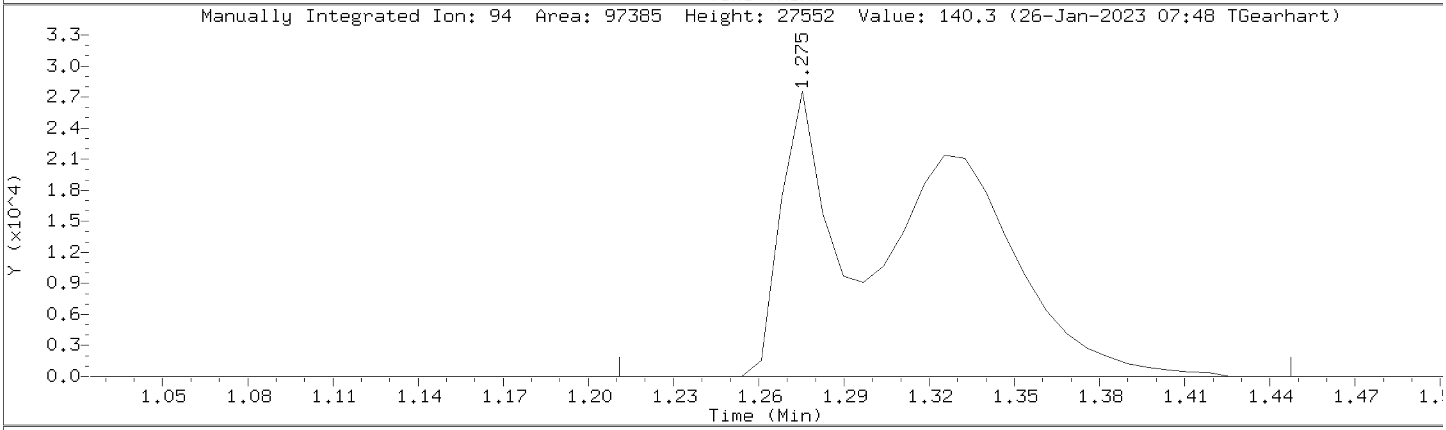
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

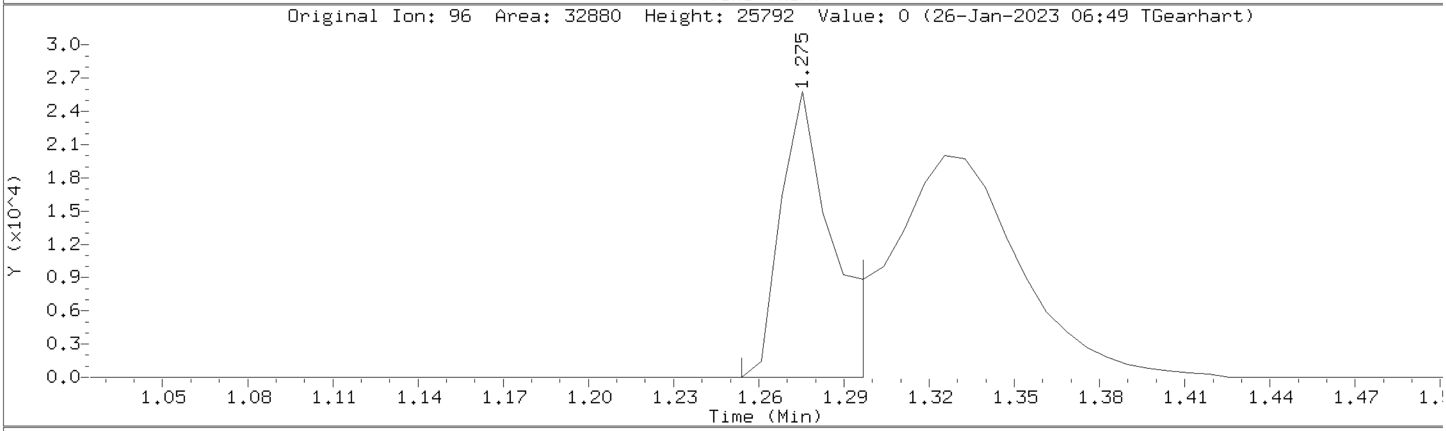
Original Ion: 94 Area: 34793 Height: 27552 Value: 58.27 (26-Jan-2023 06:49 TGearhart)



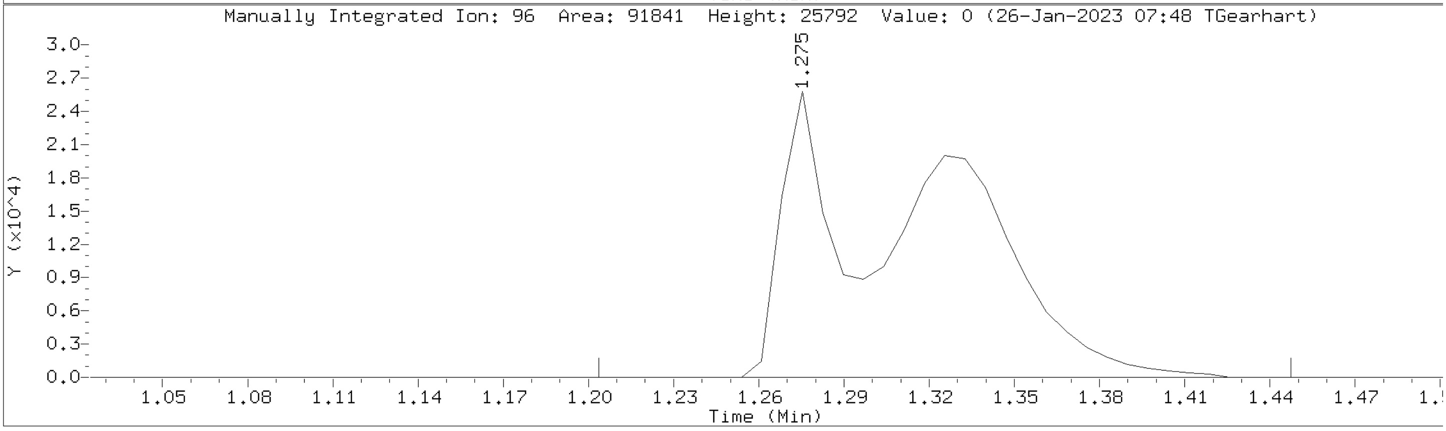
Manually Integrated Ion: 94 Area: 97385 Height: 27552 Value: 140.3 (26-Jan-2023 07:48 TGearhart)



Original Ion: 96 Area: 32880 Height: 25792 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 96 Area: 91841 Height: 25792 Value: 0 (26-Jan-2023 07:48 TGearhart)



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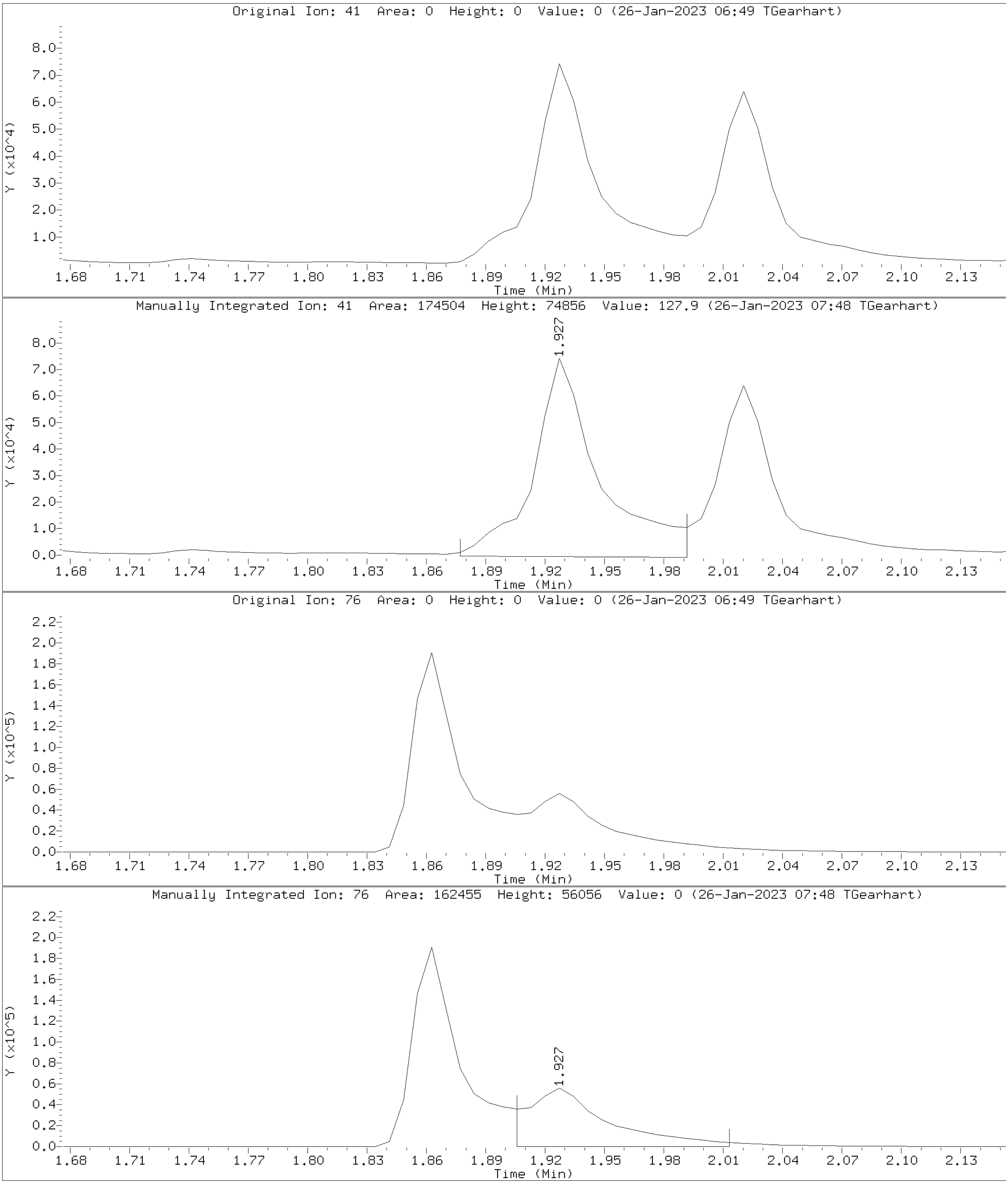
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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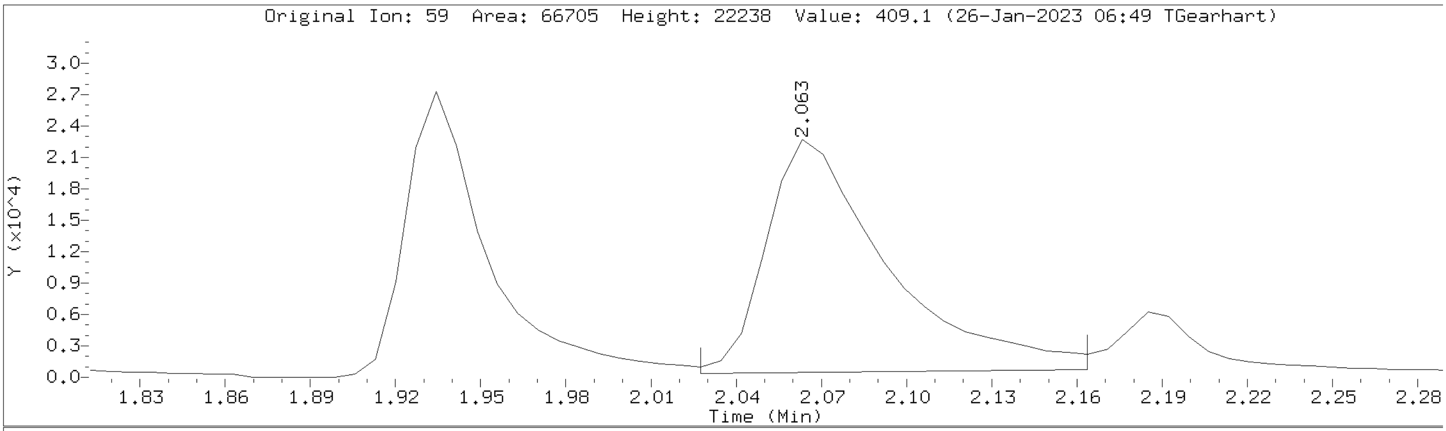
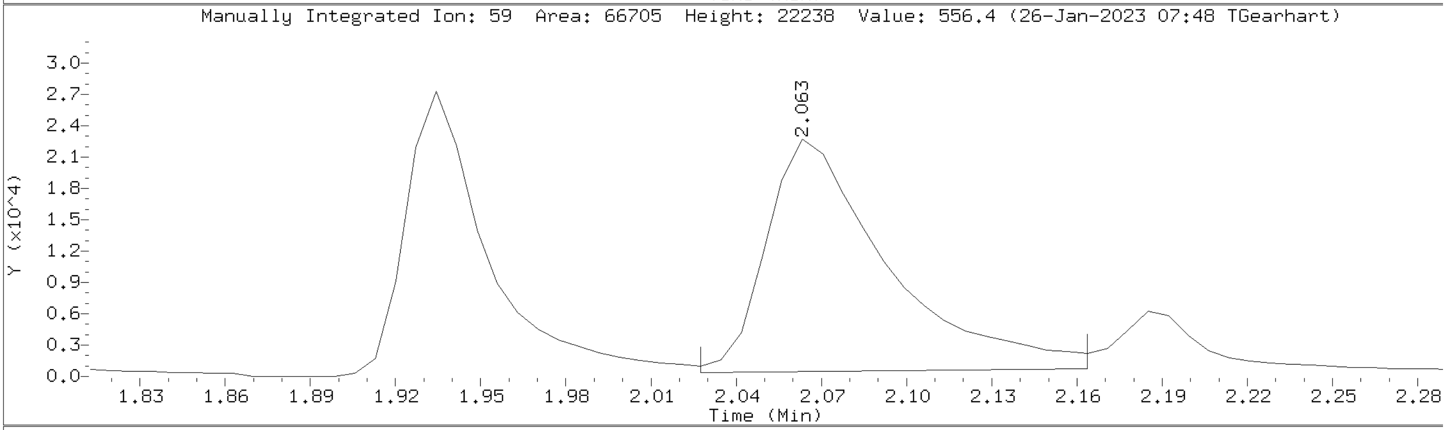
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butyl Alcohol   Review Code: WP
CAS Number: 75-65-0

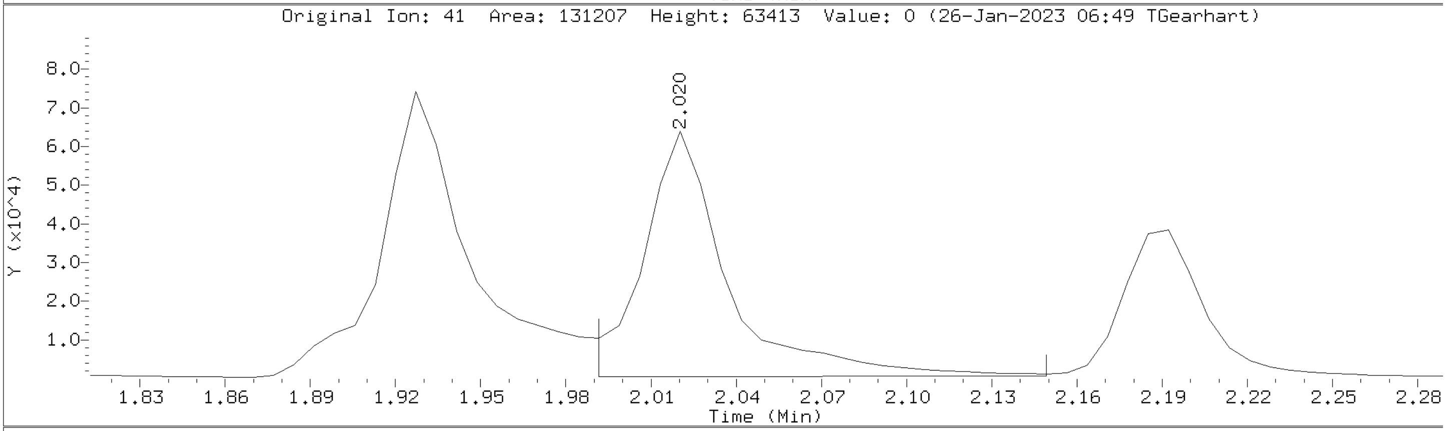
Original Ion: 59 Area: 66705 Height: 22238 Value: 409.1 (26-Jan-2023 06:49 TGearhart)



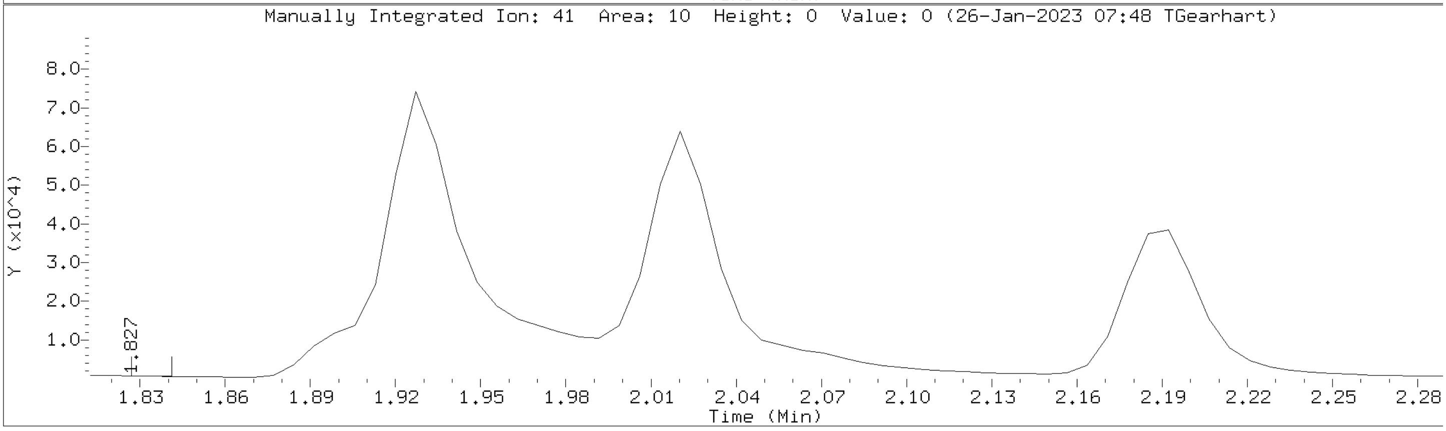
Manually Integrated Ion: 59 Area: 66705 Height: 22238 Value: 556.4 (26-Jan-2023 07:48 TGearhart)



Original Ion: 41 Area: 131207 Height: 63413 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 41 Area: 10 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



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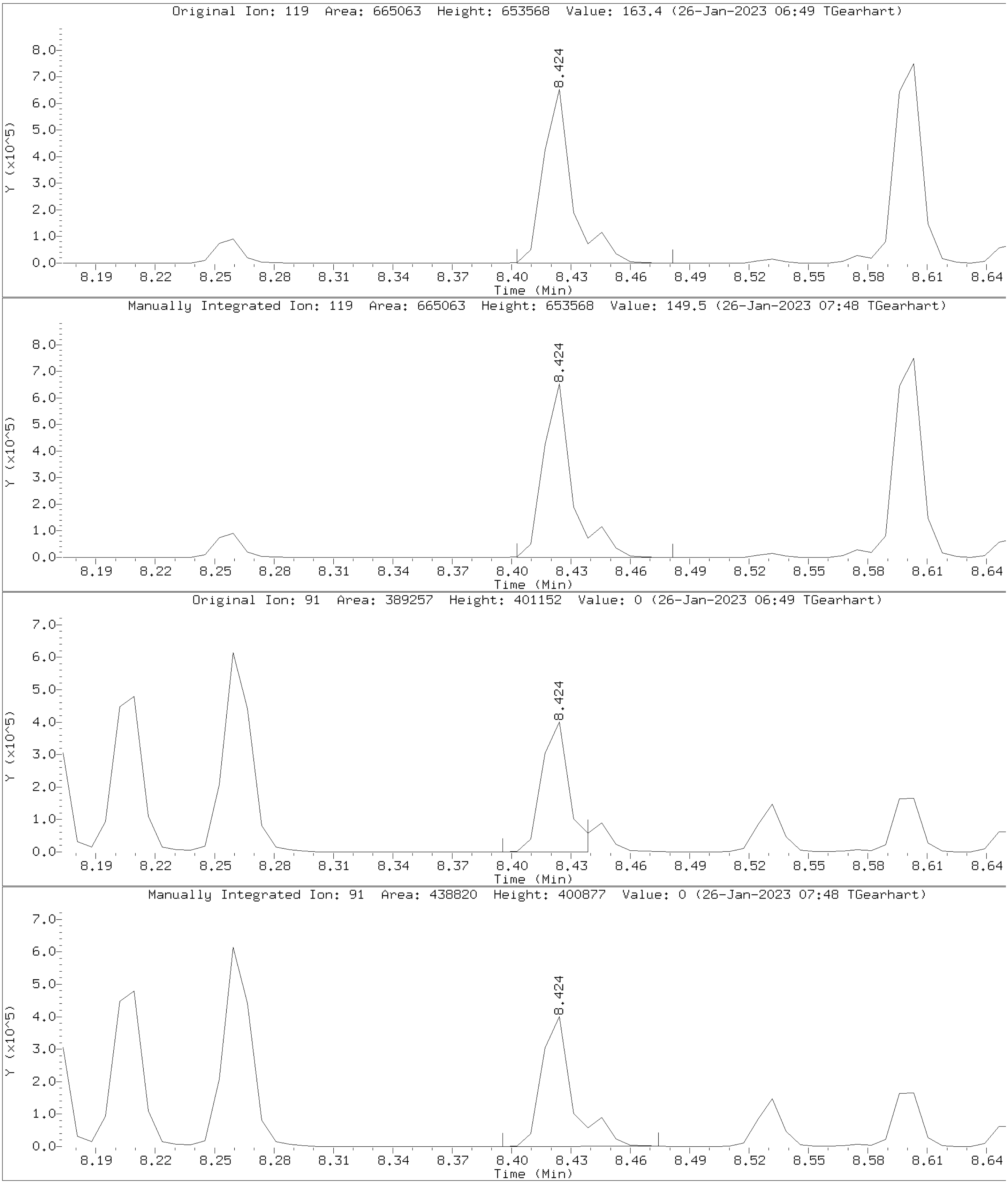
Injection Date: 24-JAN-2023 17:45
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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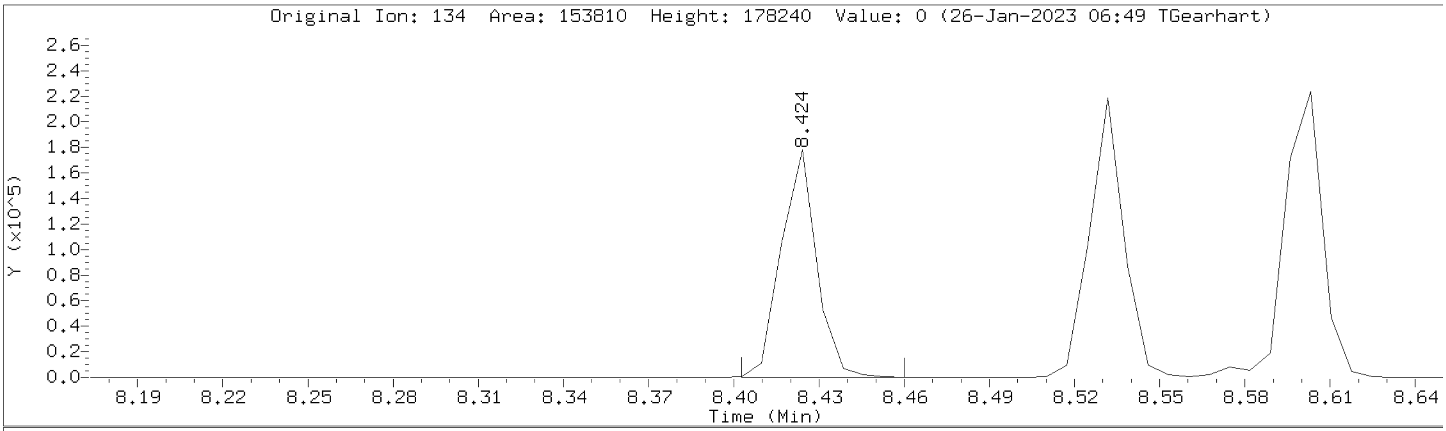
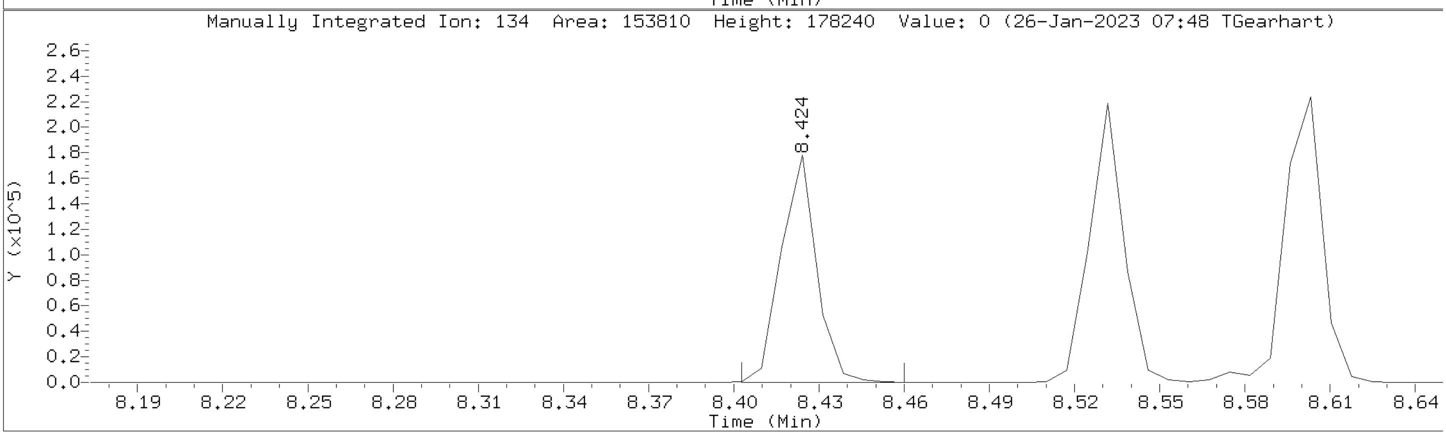
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL8





Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a13cal9.d Page 1
Report Date: 02-Feb-2023 19:55

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a13cal9.d
Lab Smp Id: 8260-CAL9 Client Smp ID: 8260-CAL9
Inj Date : 24-JAN-2023 18:14
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-cal9,336626
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 62 Calibration Sample, Level: 9
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	0.974	0.975	(0.221)	417282	300.000	356(M)	LT
2 Chloromethane	50	1.139	1.139	(0.259)	236493	300.000	302	
3 Vinyl Chloride	62	1.110	1.117	(0.252)	311561	300.000	299(M)	LT
4 Bromomethane	94	1.332	1.275	(0.302)	190754	300.000	269(M)	LT
5 Chloroethane	64	1.318	1.325	(0.299)	182686	300.000	296	
6 Trichlorofluoromethane	101	1.447	1.454	(0.329)	476986	300.000	294	
7 Diethyl ether	74	1.590	1.590	(0.361)	170966	300.000	302	
8 Acrolein	56	1.655	1.662	(0.376)	1221583	6000.00	6080	
9 1,1,2trichlorotrifluoroethane	101	1.712	1.719	(0.389)	314949	300.000	311	
10 1,1-Dichloroethene	96	1.719	1.726	(0.390)	262272	300.000	301	
11 Acetone	43	1.741	1.740	(0.395)	354532	1500.00	1050	
12 Iodomethane	142	1.812	1.819	(0.411)	432305	300.000	282	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	589751	300.000	253	
14 Acetonitrile	39	1.927	1.927	(0.437)	164134	1500.00	1030	
15 allyl chloride	41	1.927	1.927	(0.437)	304728	300.000	219(M)	NI
16 Methyl Acetate	43	1.934	1.934	(0.439)	966310	1500.00	1210	
17 Methylene Chloride	84	1.998	2.006	(0.454)	283217	300.000	254	
18 tert-Butyl Alcohol	59	2.070	2.063	(0.470)	113554	1500.00	927(M)	WP
19 Acrylonitrile	53	2.163	2.156	(0.491)	565089	1500.00	1440	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	887933	300.000	310	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	310021	300.000	311	
22 n-Hexane	57	2.392	2.392	(0.543)	398694	300.000	316	
23 1,1-Dichloroethane	63	2.507	2.507	(0.569)	440739	300.000	282	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.543	2.536	(0.577)	2437295	1200.00	1210	
	25 Diisopropyl ether	45	2.564	2.557	(0.582)	738878	300.000	291	
	26 chloroprene	53	2.579	2.579	(0.585)	423899	300.000	315	
	27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	865465	300.000	319	
	28 1,2-Dichloroethene (cis)	96	3.030	3.023	(0.688)	341193	300.000	307	
	29 2,2-Dichloropropane	77	3.030	3.023	(0.688)	436799	300.000	322	
	30 2-Butanone	43	3.044	3.037	(0.691)	565851	1500.00	1140	
	31 Propionitrile	54	3.109	3.101	(0.706)	182888	1500.00	1470	
	32 Ethyl Acetate	88	3.116	3.109	(0.707)	98283	1500.00	1490	
	33 Methacrylonitrile	41	3.274	3.259	(0.743)	808361	1500.00	1430	
	34 Bromochloromethane	49	3.281	3.266	(0.745)	176336	300.000	277	
	35 Tetrahydrofuran	42	3.338	3.338	(0.758)	435318	1500.00	1310	
	36 Chloroform	83	3.374	3.367	(0.766)	523884	300.000	286	
$	37 Dibromofluoromethane (S)	113	3.560	3.553	(0.808)	55011	50.0000	47.0	
	38 1,1,1-Trichloroethane	97	3.589	3.581	(0.815)	541395	300.000	332	
	39 Cyclohexane	56	3.660	3.660	(0.831)	458641	300.000	325	
	40 Carbon Tetrachloride	117	3.804	3.803	(0.863)	515567	300.000	352	
	41 1,1-Dichloropropene	75	3.804	3.803	(0.863)	402654	300.000	330	
	42 Isobutyl alcohol	43	4.004	3.990	(0.909)	34066	1500.00	1200	
	43 Benzene	78	4.061	4.061	(0.922)	1167901	300.000	298	
	44 1,2-Dichloroethane	62	4.083	4.076	(0.927)	411055	300.000	302	
	45 2,2,4-Trimethylpentane	57	4.434	4.405	(1.007)	209325	300.000	303	
	46 tert-Amylmethyl ether	73	4.233	4.226	(0.961)	891699	300.000	309	
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	216090	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	349123	300.000	323	
	49 Methylcyclohexane	55	5.057	5.050	(1.148)	393348	300.000	327	
	50 1,2-Dichloropropane	63	5.086	5.079	(1.154)	279688	300.000	313	
	51 Dibromomethane	93	5.208	5.200	(1.182)	198429	300.000	309	
	52 1,4-Dioxane	88	5.265	5.258	(1.195)	19810	6000.00	5780	
	53 Methyl methacrylate	69	5.258	5.258	(1.193)	271291	300.000	336	
	54 Bromodichloromethane	83	5.394	5.387	(1.224)	427064	300.000	333	
	55 2-Chloroethyl vinyl ether	63	5.752	5.738	(0.786)	1016350	1500.00	1520	
	56 cis-1,3-Dichloropropene	75	5.874	5.866	(0.803)	499805	300.000	324	
	57 4-Methyl-2-Pentanone	43	6.060	6.046	(0.829)	1536629	1500.00	1410	
$	58 Toluene-d8	98	6.139	6.131	(0.839)	213253	50.0000	50.0	
	59 Toluene	91	6.203	6.203	(0.848)	1345212	300.000	289	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	468718	300.000	323	
	61 Ethyl Methacrylate	69	6.554	6.547	(0.896)	449660	300.000	321	
	62 1,1,2-Trichloroethane	83	6.590	6.583	(0.901)	239719	300.000	316	
	63 Tetrachloroethene	166	6.705	6.697	(0.917)	453205	300.000	317	
	64 1,3-Dichloropropane	76	6.726	6.719	(0.920)	465914	300.000	302	
	65 2-Hexanone	43	6.826	6.812	(0.933)	1139569	1500.00	1390	
	66 Dibromochloromethane	129	6.905	6.898	(0.944)	391805	300.000	341	
	67 1,2-Dibromoethane	107	6.977	6.970	(0.954)	334236	300.000	329	
*	68 Chlorobenzene-d5	117	7.314	7.306	(1.000)	167632	50.0000		
	69 Chlorobenzene	112	7.328	7.328	(1.002)	908836	300.000	284	
	70 1,1,1,2-Tetrachloroethane	131	7.392	7.385	(1.011)	363816	300.000	322	
	71 Ethylbenzene	106	7.414	7.407	(1.014)	496970	300.000	293	
	72 m&p-Xylene	106	7.485	7.485	(1.024)	605695	300.000	286	
	73 o-Xylene	106	7.729	7.722	(1.057)	564420	300.000	280	
	74 Styrene	104	7.736	7.736	(1.058)	944407	300.000	274	
	75 Bromoform	173	7.836	7.836	(0.909)	311149	300.000	306	
	76 Isopropylbenzene	105	7.944	7.937	(1.086)	1462485	300.000	269	
$	77 4-Bromofluorobenzene	95	8.023	8.015	(1.097)	77949	50.0000	48.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.101	8.094	(1.108)	535744	300.000	281	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.940)	393244	300.000	306	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	146321	300.000	313	
81 trans-1,4-Dichloro-2-butene	53	8.137	8.130	(1.113)	117282	300.000	292	
82 n-Propylbenzene	91	8.166	8.159	(0.948)	1568013	300.000	266	
83 2-Chlorotoluene	91	8.209	8.202	(0.953)	929233	300.000	272	
84 1,3,5-Trimethylbenzene	105	8.259	8.252	(0.958)	1139955	300.000	265	
85 4-Chlorotoluene	126	8.266	8.259	(0.959)	356021	300.000	276	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	1234657	300.000	279	
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.980)	1192661	300.000	271	
88 sec-Butylbenzene	105	8.531	8.531	(0.990)	1455286	300.000	274	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.996)	726156	300.000	285	
90 p-Isopropyltoluene	119	8.603	8.596	(0.998)	1286906	300.000	274	
* 91 1,4-Dichlorobenzene-d4	152	8.617	8.610	(1.000)	88296	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.001)	708935	300.000	283	
93 1,2,3-Trimethylbenzene	105	8.653	8.646	(1.004)	1120483	300.000	271	
94 n-Butylbenzene	91	8.796	8.789	(1.021)	1052541	300.000	281	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	646446	300.000	285	
96 Hexachloroethane	201	8.925	8.925	(1.036)	261431	300.000	369	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.062)	104576	300.000	301	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.105)	427365	300.000	316	
99 Hexachlorobutadiene	225	9.591	9.591	(1.113)	238089	300.000	359	
100 Naphthalene	128	9.627	9.627	(1.117)	1079874	300.000	306	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.129)	353592	300.000	331	
102 2,methyl-naphthalene	142	10.121	10.129	(1.175)	422668	300.000	352	
103 1-Methylnaphthalene	142	10.215	10.222	(1.185)	345865	300.000	337	

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.

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a13cal9.d

Page 4

Date : 24-JAN-2023 18:14

Client ID: 8260-CAL9

Instrument: 50mv2a.i

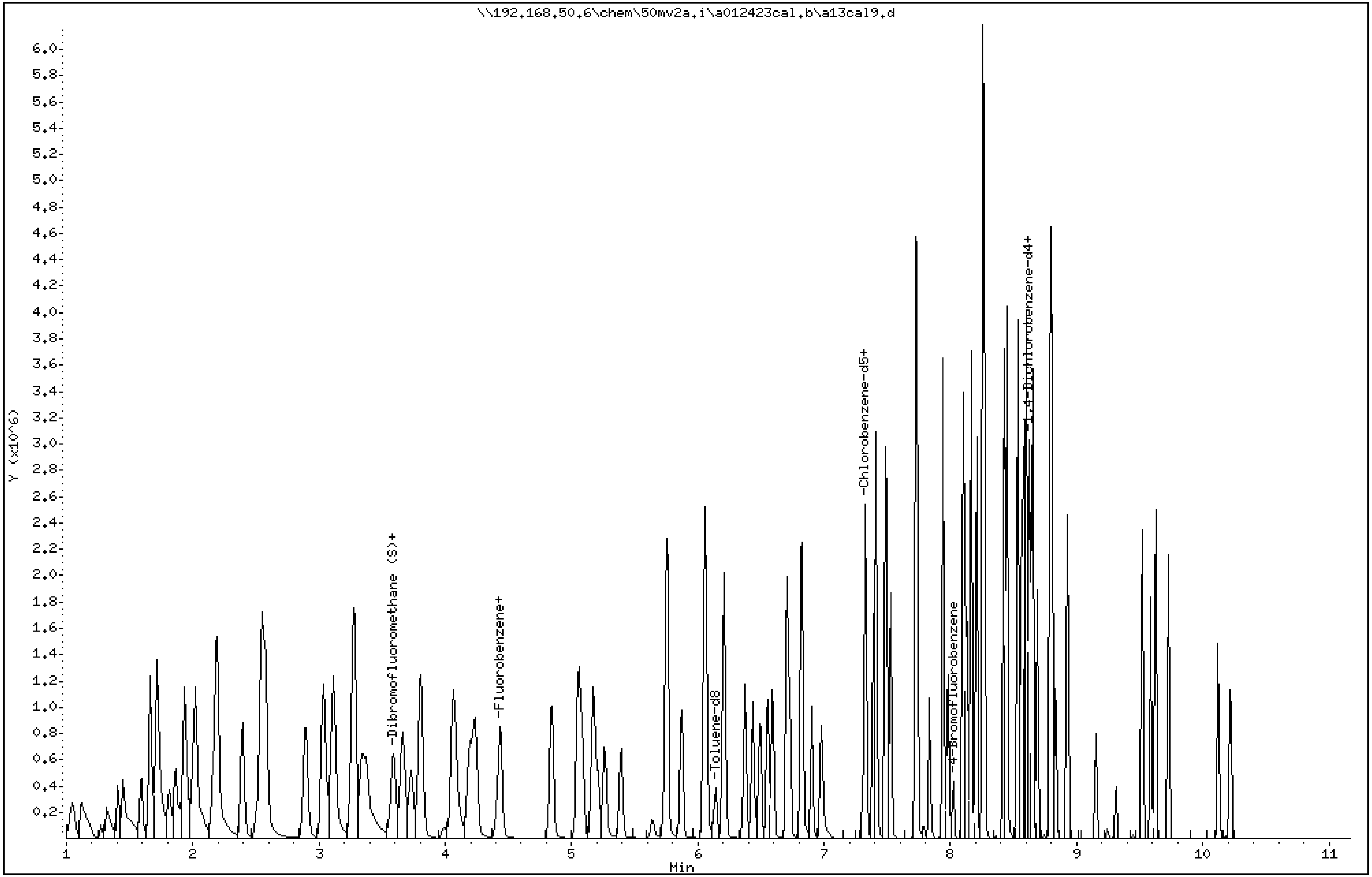
Sample Info: 8260-CAL9,336626

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a13cal9.d Page 5

Date : 24-JAN-2023 18:14

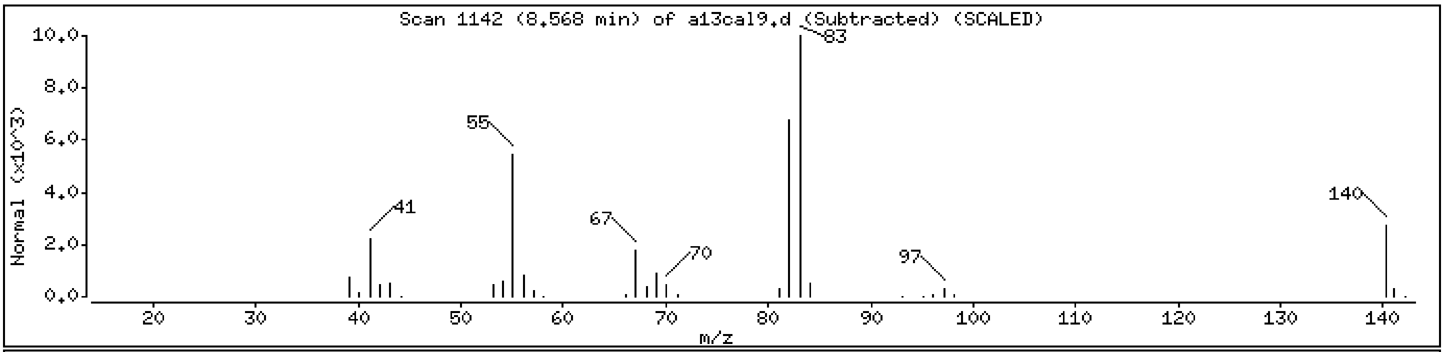
Client ID: 8260-CAL9 Instrument: 50mv2a.i

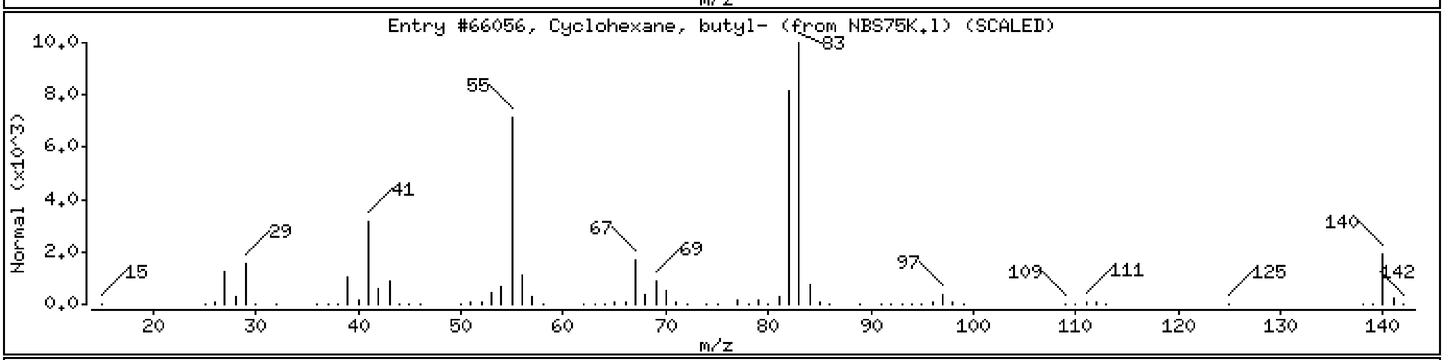
Sample Info: 8260-CAL9,336626

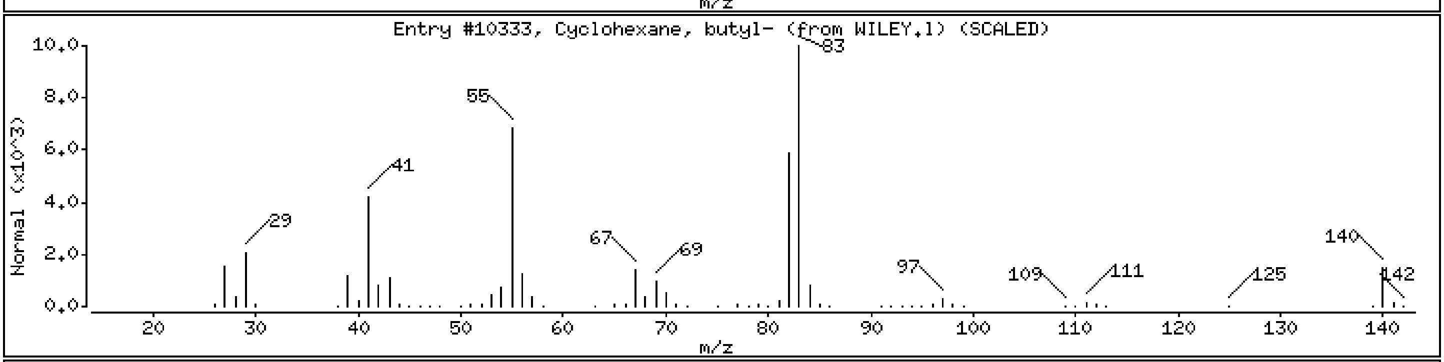
Purge Volume: 5.0 Operator: tkg

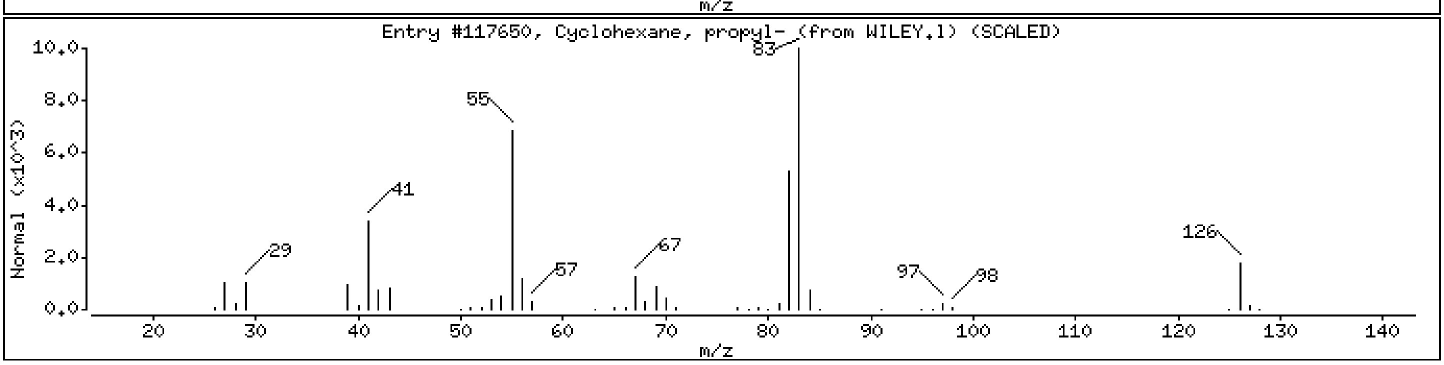
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	91	C10H20	140
Cyclohexane, butyl-	1678-93-9	WILEY.l	10333	83	C10H20	140
Cyclohexane, propyl-	1678-92-8	WILEY.l	117650	59	C9H18	126









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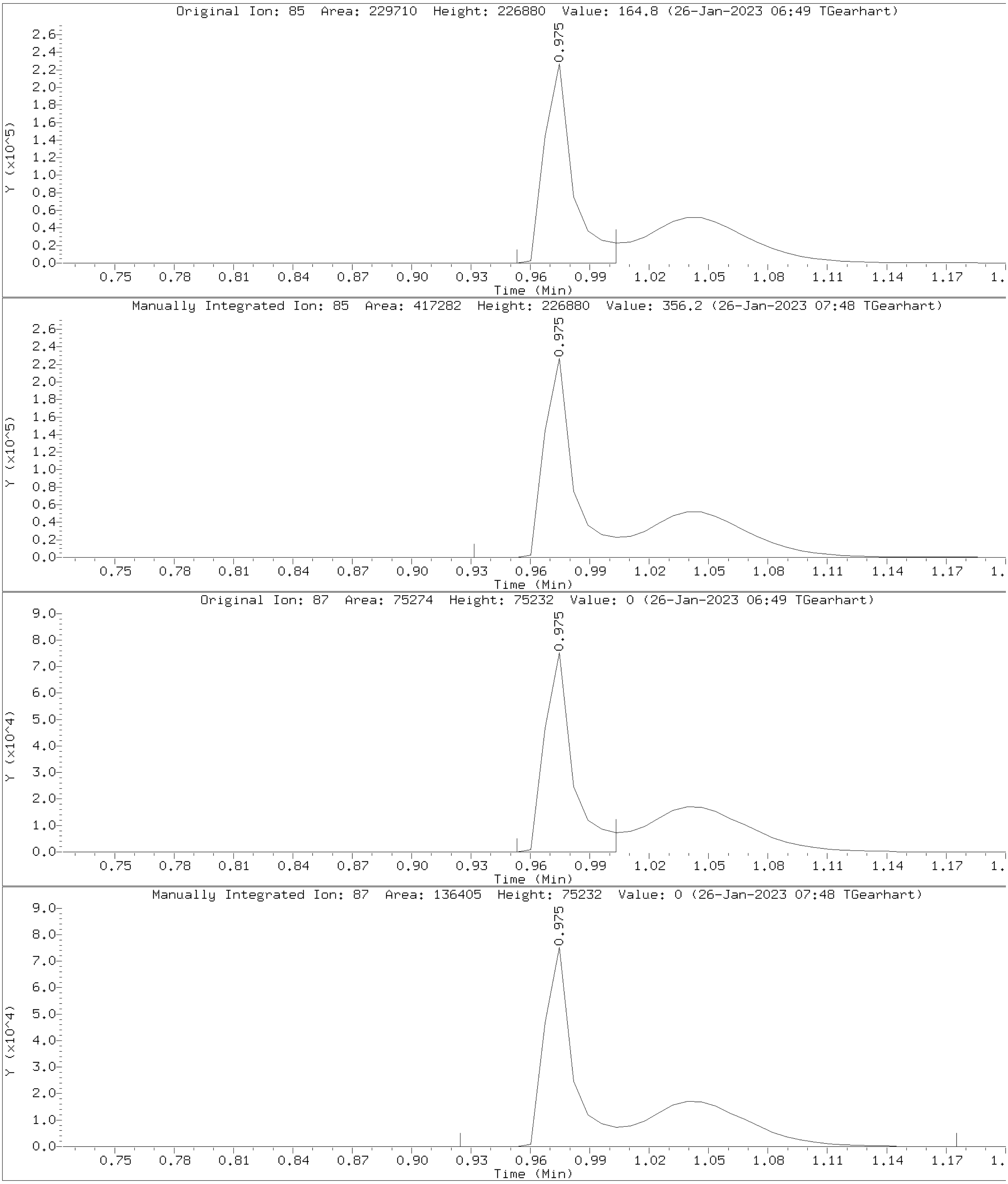
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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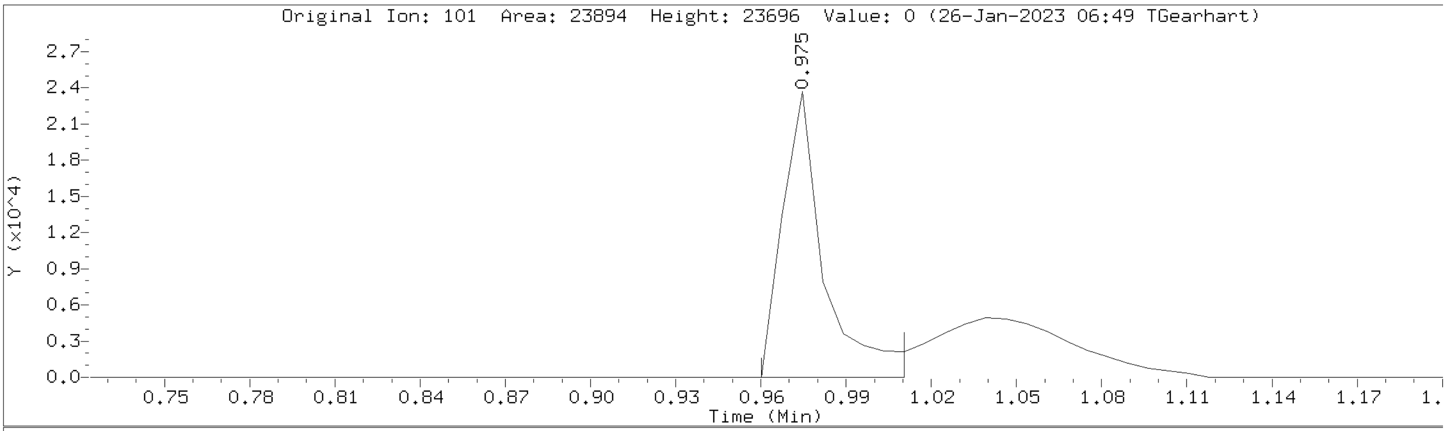
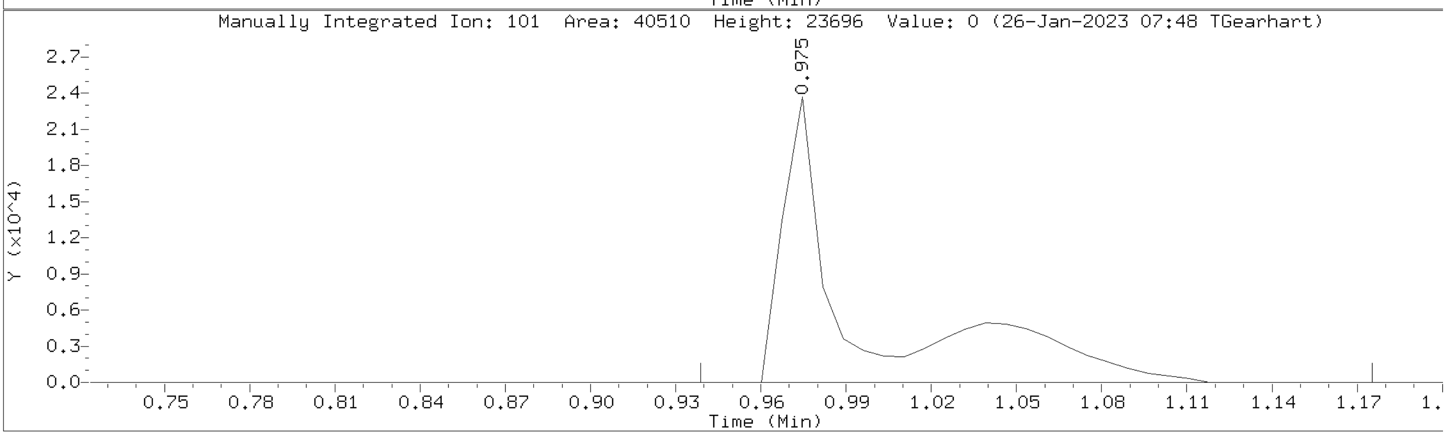
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9





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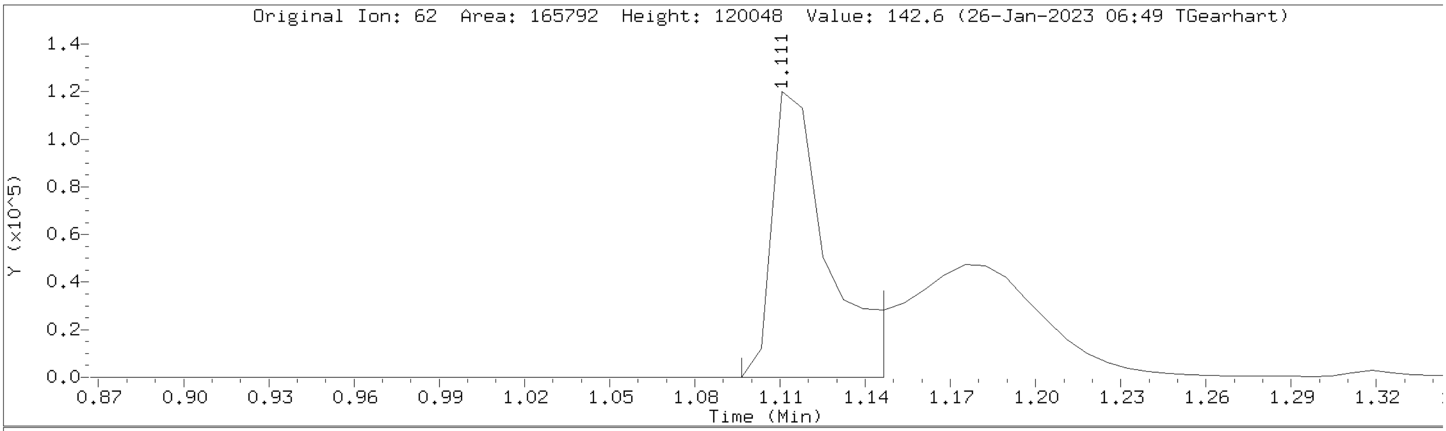
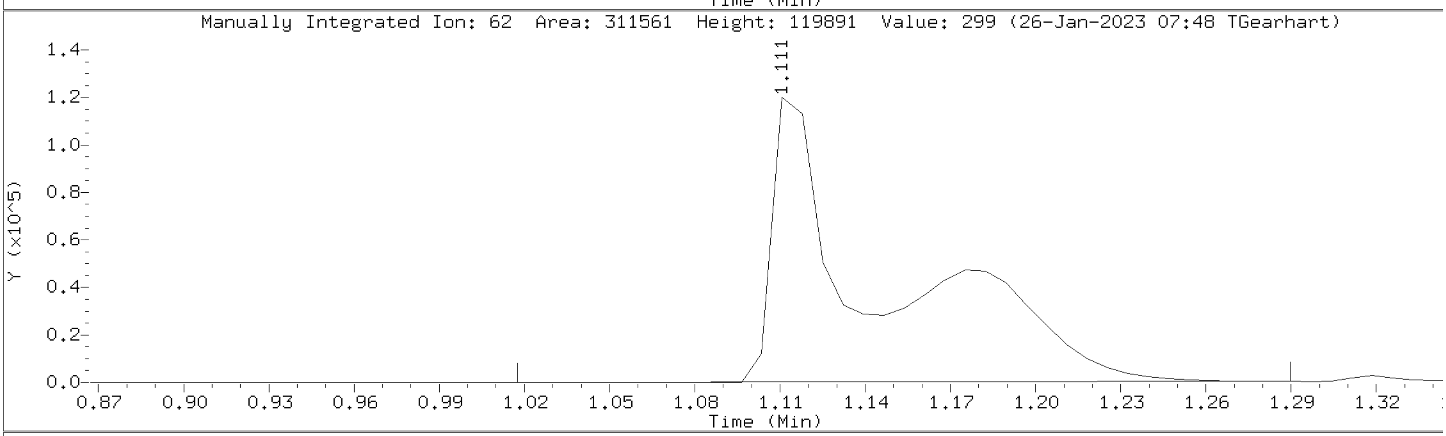
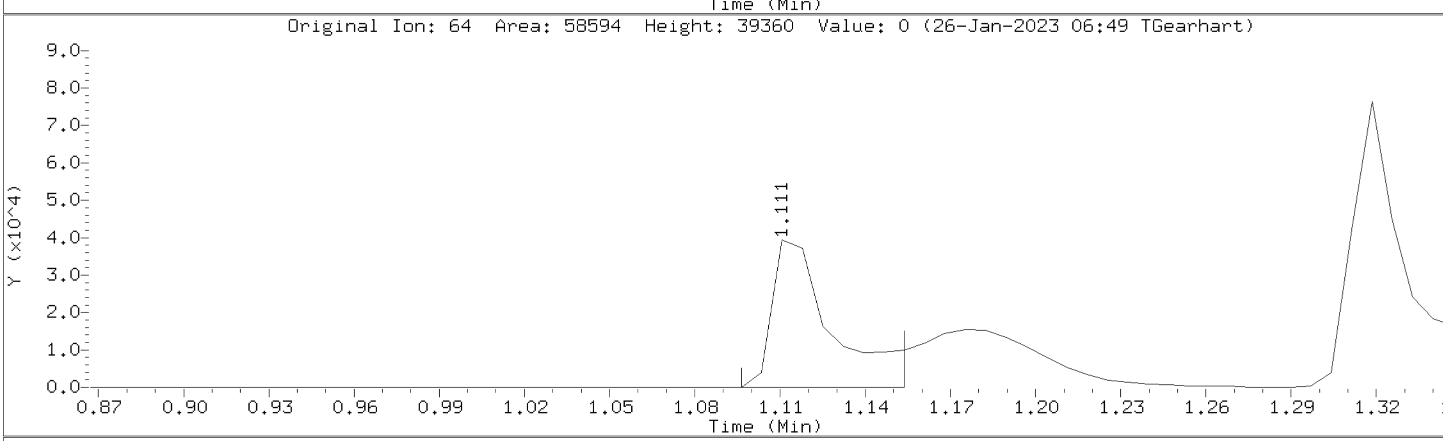
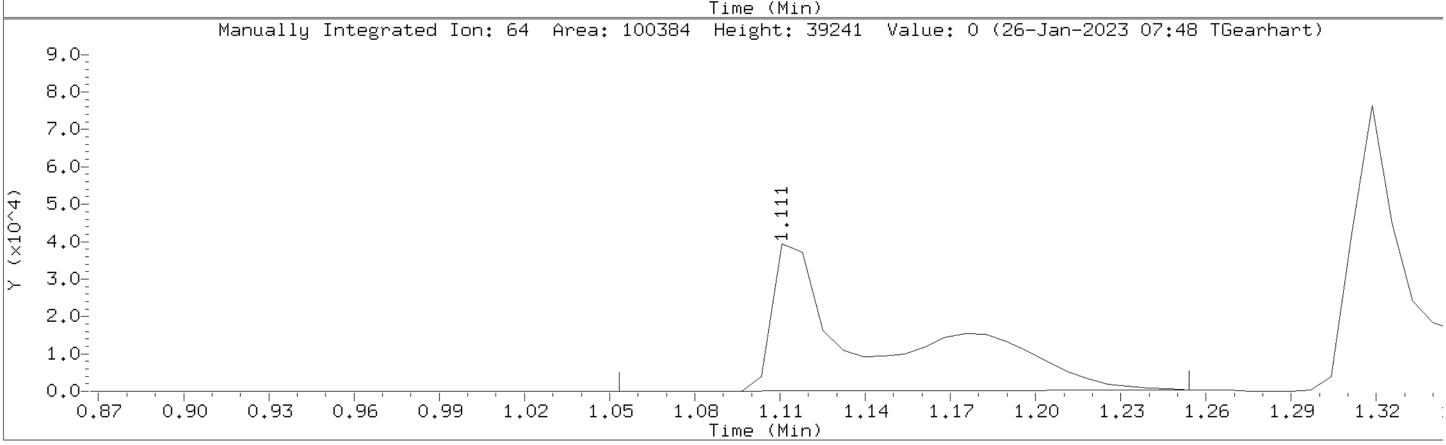
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4









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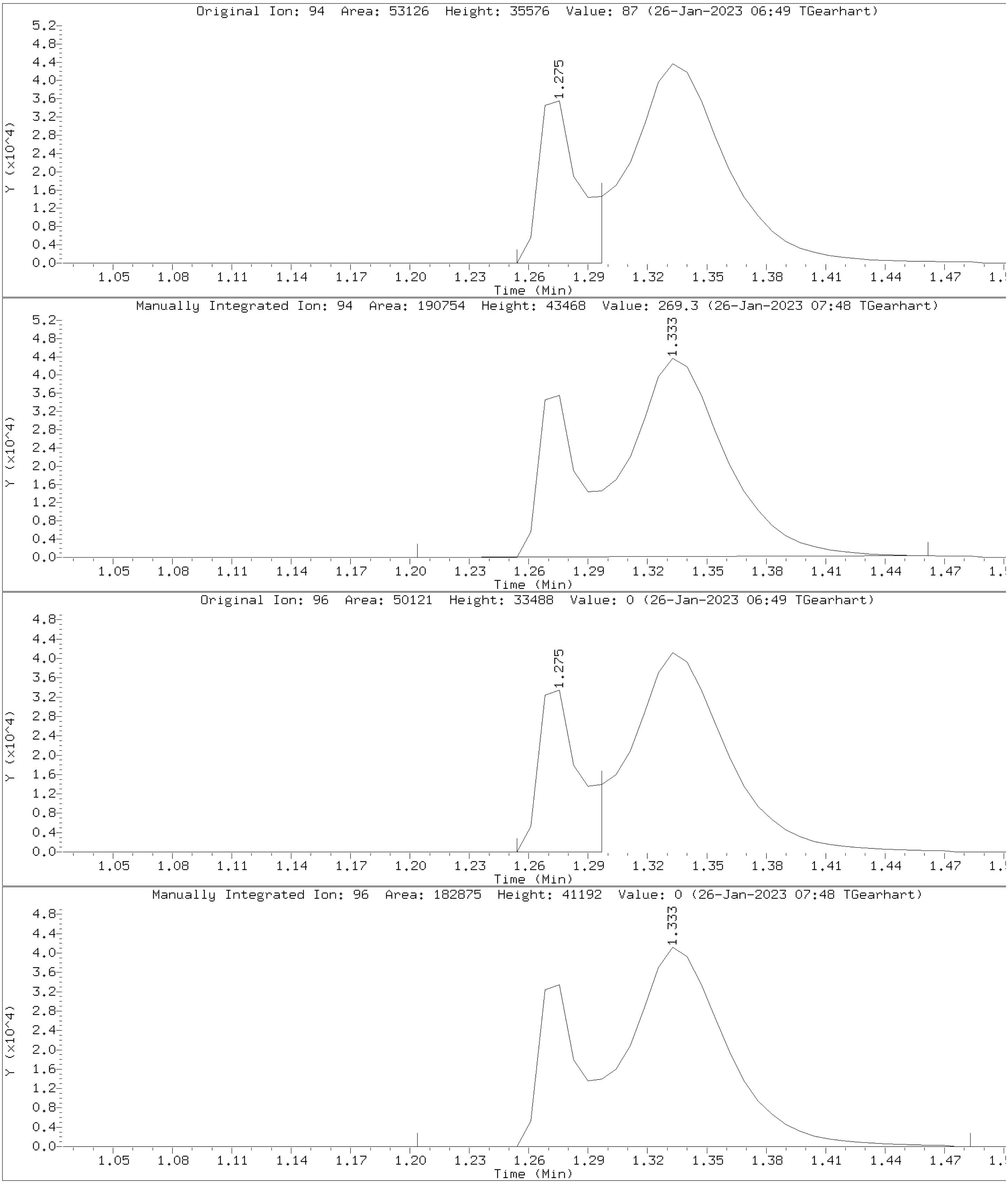
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9



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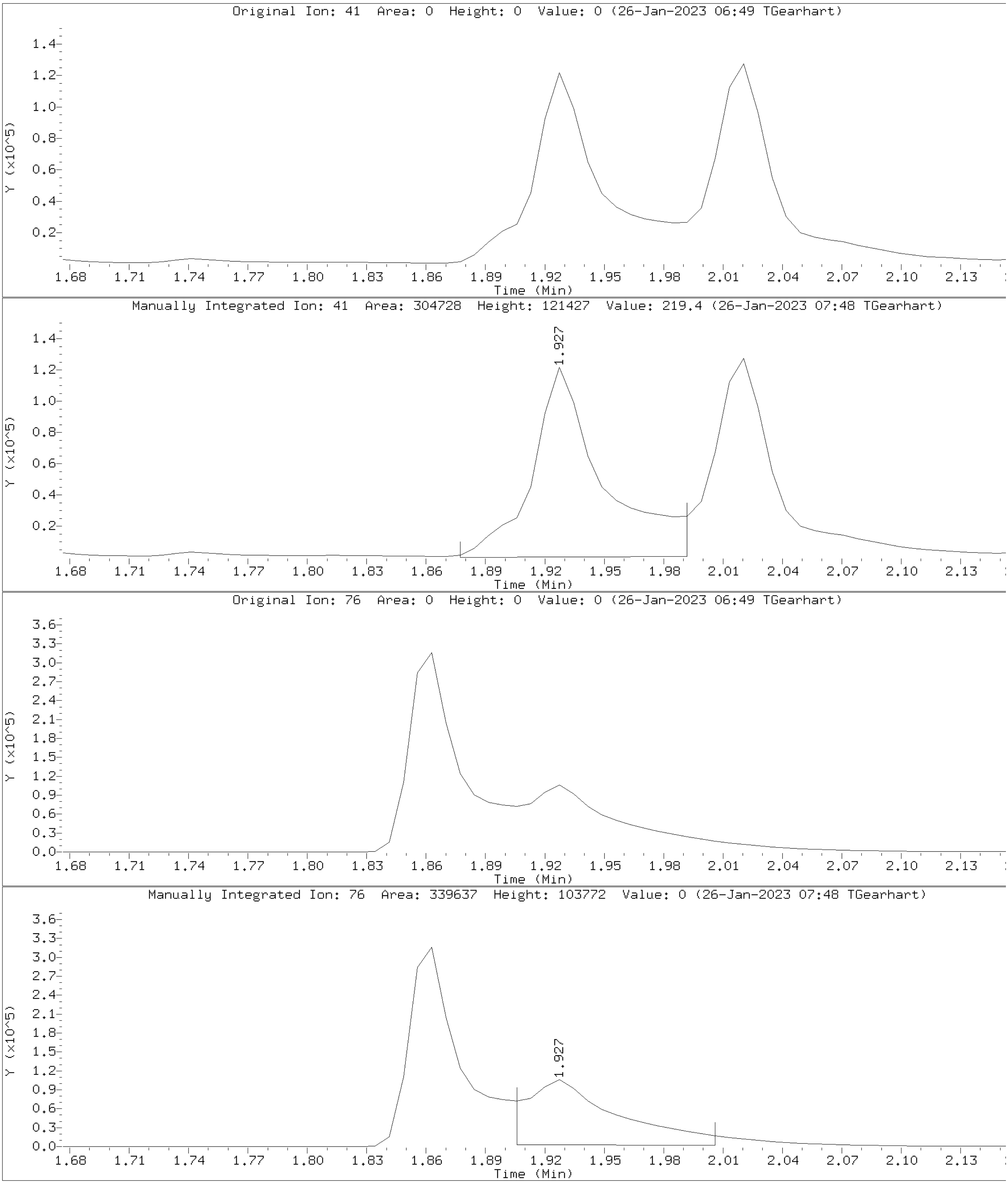
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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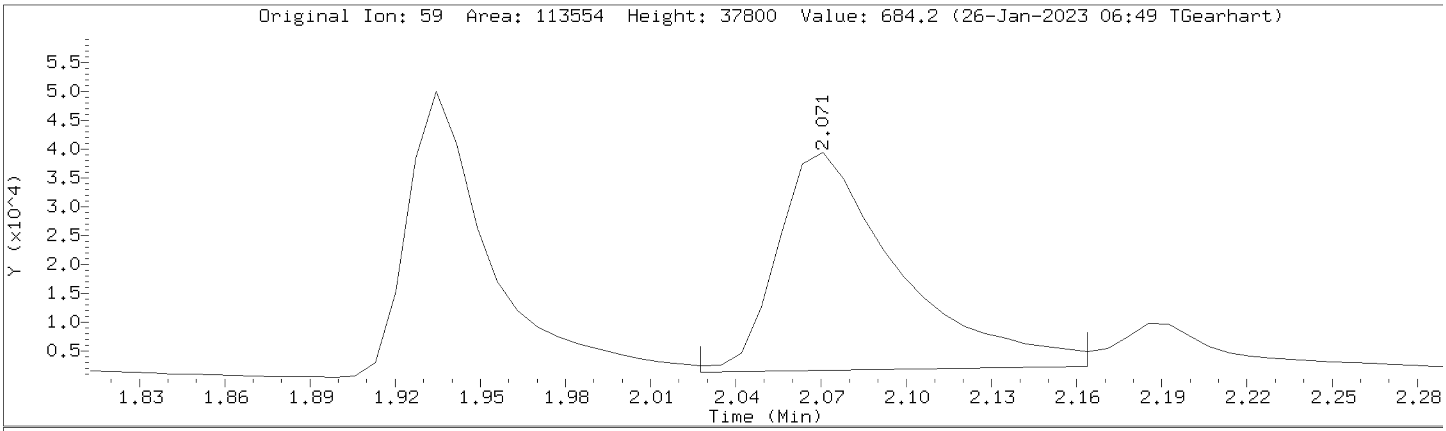
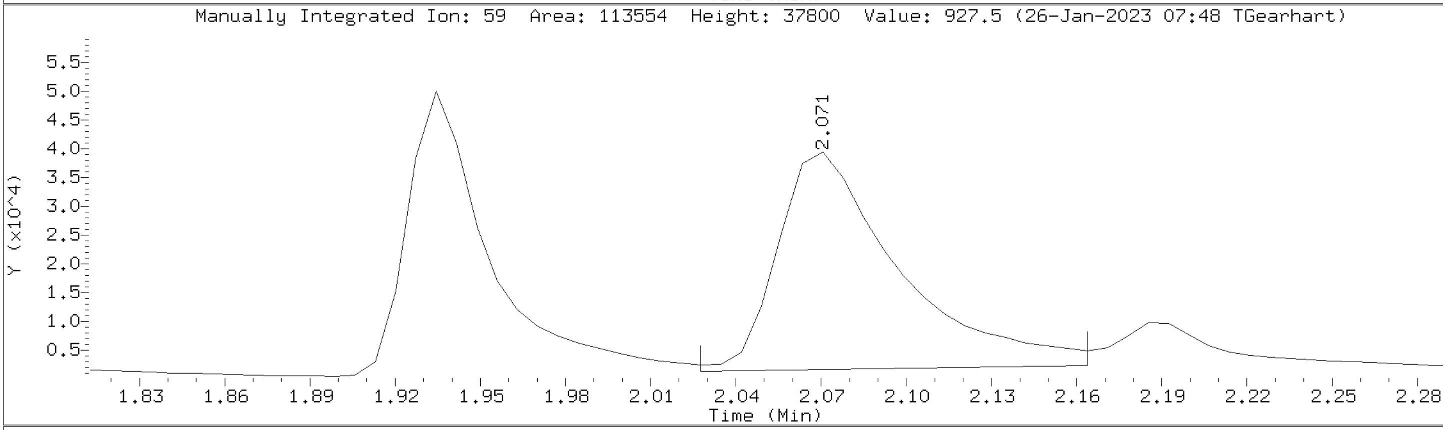
Injection Date: 24-JAN-2023 18:14
Instrument: 50mv2a.i
Lab Sample ID: 8260-CAL9

Compound: tert-Butyl Alcohol   Review Code: WP
CAS Number: 75-65-0

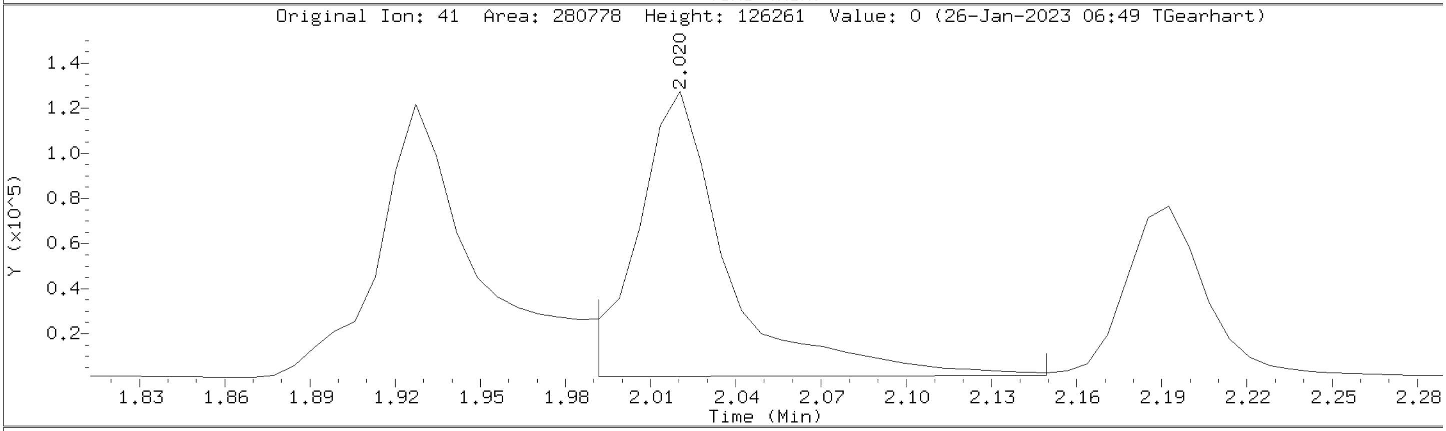
Original Ion: 59 Area: 113554 Height: 37800 Value: 684.2 (26-Jan-2023 06:49 TGearhart)



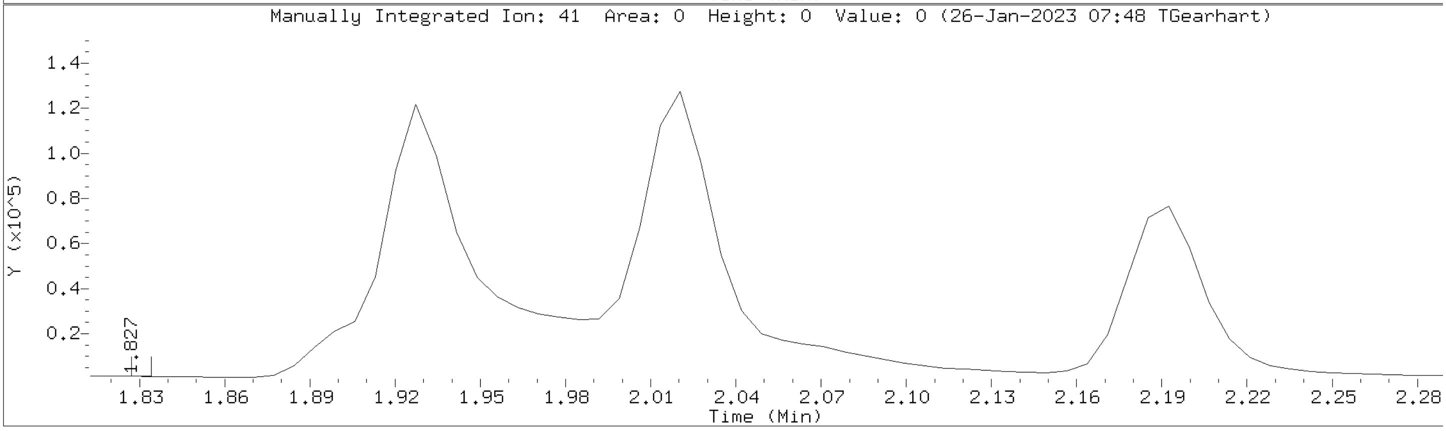
Manually Integrated Ion: 59 Area: 113554 Height: 37800 Value: 927.5 (26-Jan-2023 07:48 TGearhart)



Original Ion: 41 Area: 280778 Height: 126261 Value: 0 (26-Jan-2023 06:49 TGearhart)



Manually Integrated Ion: 41 Area: 0 Height: 0 Value: 0 (26-Jan-2023 07:48 TGearhart)



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Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b01.d
Lab Smp Id: 8260-CAL1 Client Smp ID: 8260-CAL1
Inj Date : 16-JAN-2023 14:21
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal1,335761:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.339	1.339	(0.269)	659	0.50000	0.450(M)	NI
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						(D)
7 Diethyl ether	74	Compound Not Detected.						(D)
8 Acrolein	56	Compound Not Detected.						(D)
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						(D)
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						(D)
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	2.313	2.313	(0.465)	996	2.50000	4.21(M)	LT
15 allyl chloride	41	Compound Not Detected.						(D)
16 Methyl Acetate	43	Compound Not Detected.						(D)
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						(D)
19 Acrylonitrile	53	2.585	2.585	(0.519)	885	2.50000	1.94	
20 Methyl-tert-butyl ether	73	Compound Not Detected.						(D)
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						(D)
22 n-Hexane	57	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	Compound Not Detected.						
24 Vinyl Acetate	43	3.044	3.037	(0.612)	4818	2.00000	2.04(M)	NI
25 Diisopropyl ether	45	Compound Not Detected.						(D)
26 chloroprene	53	Compound Not Detected.						
27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
28 2,2-Dichloropropane	77	Compound Not Detected.						
29 1,2-Dichloroethene (cis)	96	Compound Not Detected.						(D)
30 2-Butanone	43	Compound Not Detected.						
31 Ethyl Acetate	88	Compound Not Detected.						
32 Propionitrile	54	Compound Not Detected.						
33 Methacrylonitrile	41	Compound Not Detected.						(D)
34 Bromochloromethane	49	Compound Not Detected.						(D)
35 Tetrahydrofuran	42	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						(D)
$ 37 Dibromofluoromethane (S)	113	4.197	4.197	(0.843)	46917	50.0000	51.3	
38 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
39 Cyclohexane	56	Compound Not Detected.						(D)
40 Carbon Tetrachloride	117	Compound Not Detected.						
41 1,1-Dichloropropene	75	Compound Not Detected.						
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	Compound Not Detected.						(D)
44 1,2-Dichloroethane	62	Compound Not Detected.						
45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
46 tert-Amylmethyl ether	73	Compound Not Detected.						
* 47 Fluorobenzene	96	4.978	4.985	(1.000)	201198	50.0000		
48 Trichloroethene	95	Compound Not Detected.						(D)
49 Methylcyclohexane	55	Compound Not Detected.						(D)
50 1,2-Dichloropropane	63	Compound Not Detected.						
51 Dibromomethane	93	Compound Not Detected.						(D)
52 Methyl methacrylate	69	Compound Not Detected.						
53 1,4-Dioxane	88	Compound Not Detected.						
54 Bromodichloromethane	83	Compound Not Detected.						
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						(D)
56 cis-1,3-Dichloropropene	75	Compound Not Detected.						(D)
57 4-Methyl-2-Pentanone	43	Compound Not Detected.						(D)
$ 58 Toluene-d8	98	6.590	6.589	(0.864)	216976	50.0000	51.9	
59 Toluene	91	Compound Not Detected.						(D)
60 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
61 Ethyl Methacrylate	69	Compound Not Detected.						
62 1,1,2-Trichloroethane	83	Compound Not Detected.						(D)
63 Tetrachloroethene	166	Compound Not Detected.						(D)
64 1,3-Dichloropropane	76	Compound Not Detected.						(D)
65 2-Hexanone	43	Compound Not Detected.						(D)
66 Dibromochloromethane	129	Compound Not Detected.						(D)
67 1,2-Dibromoethane	107	Compound Not Detected.						(D)
* 68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	161324	50.0000		
69 Chlorobenzene	112	Compound Not Detected.						(D)
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						(D)
71 Ethylbenzene	106	Compound Not Detected.						(D)
72 m&p-Xylene	106	Compound Not Detected.						(D)
73 o-Xylene	106	Compound Not Detected.						(D)
74 Styrene	104	Compound Not Detected.						(D)
75 Bromoform	173	Compound Not Detected.						
76 Isopropylbenzene	105	Compound Not Detected.						(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.088)	76083	50.0000	50.1	
78 Bromobenzene	77	Compound Not Detected.						(D)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						(D)
83 2-Chlorotoluene	91	Compound Not Detected.						(D)
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
85 4-Chlorotoluene	126	Compound Not Detected.						(D)
86 tert-Butylbenzene	119	Compound Not Detected.						(D)
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
88 sec-Butylbenzene	105	Compound Not Detected.						(D)
89 1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
90 p-Isopropyltoluene	119	Compound Not Detected.						(D)
* 91 1,4-Dichlorobenzene-d4	152	8.875	8.874	(1.000)	89242	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
94 n-Butylbenzene	91	Compound Not Detected.						(D)
95 1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						(D)
99 Hexachlorobutadiene	225	Compound Not Detected.						(D)
100 Naphthalene	128	Compound Not Detected.						(D)
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						(D)
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

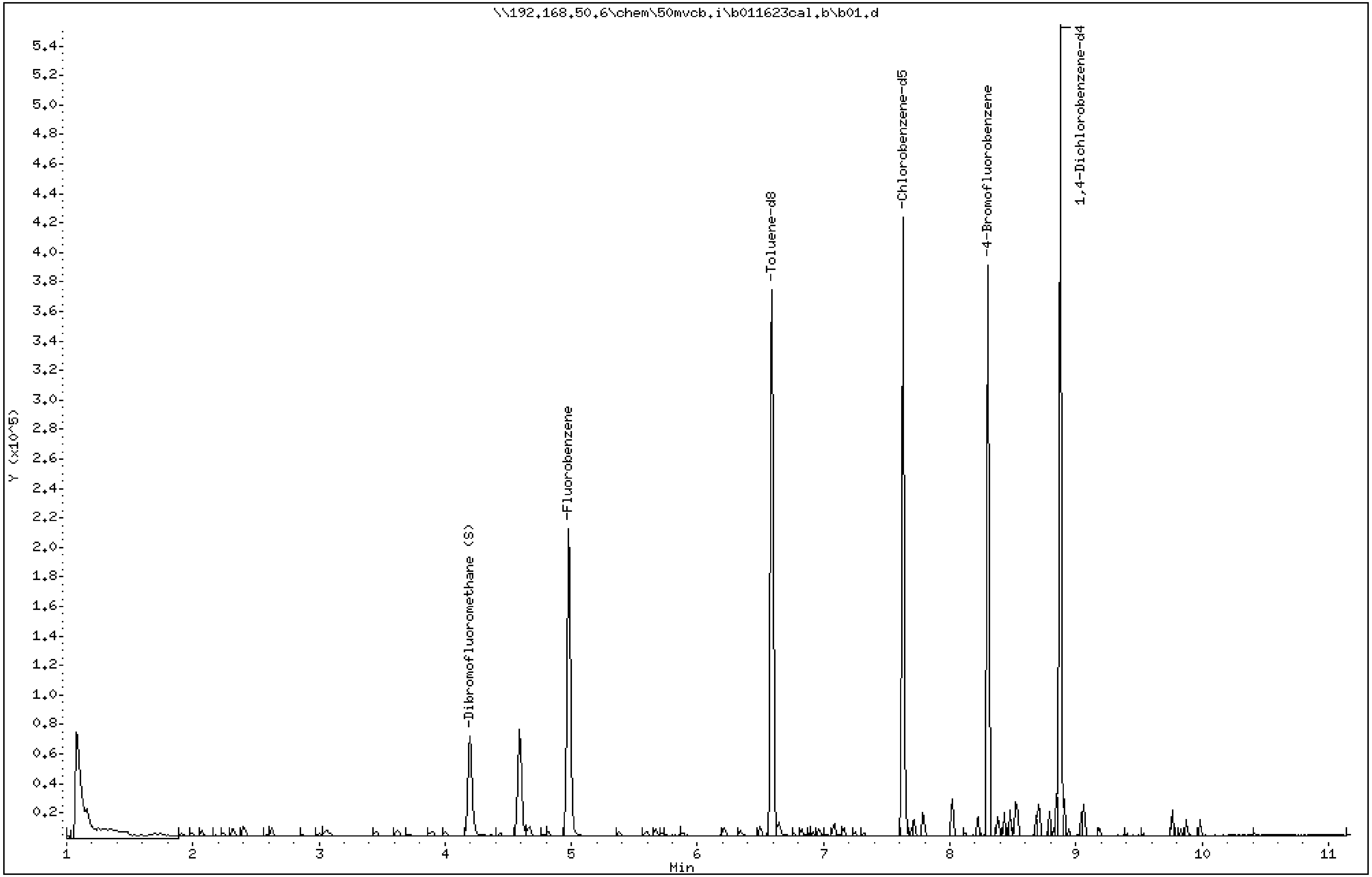
QC Flag Legend

M - Compound response manually integrated.
D - User disabled compound identification.

Review Codes Legend

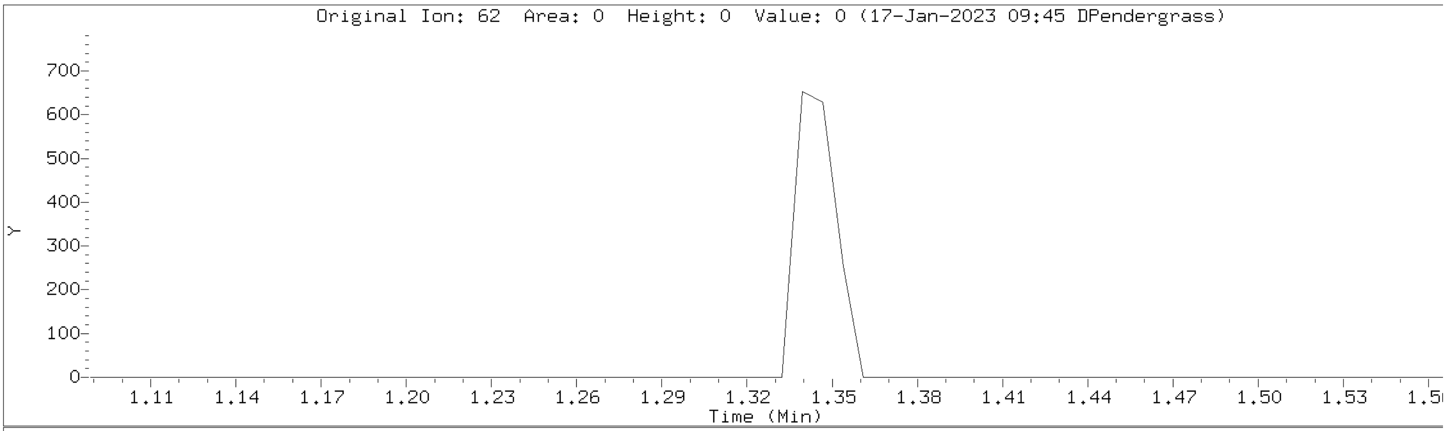
:
NI: Indicates that the peak was not integrated at all by the computer software.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

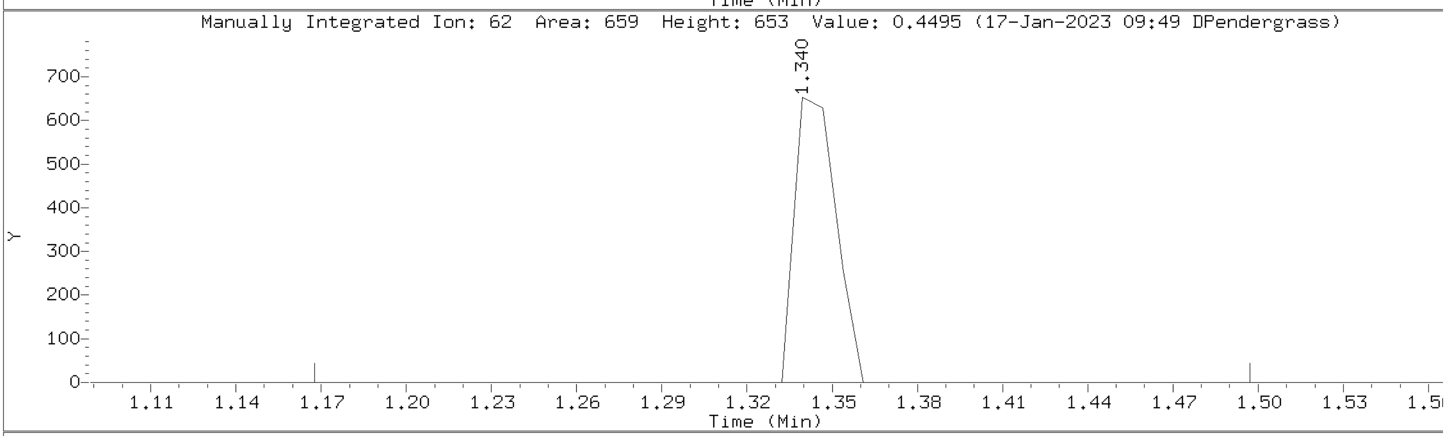
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b01.d
Date : 16-JAN-2023 14:21
Client ID: 8260-CAL1 Instrument: 50mvcb.i
Sample Info: 8260-CAL1,335761:0
Purge Volume: 5.0 Operator: DAP
Column phase: DB-624 Column diameter: 0.18

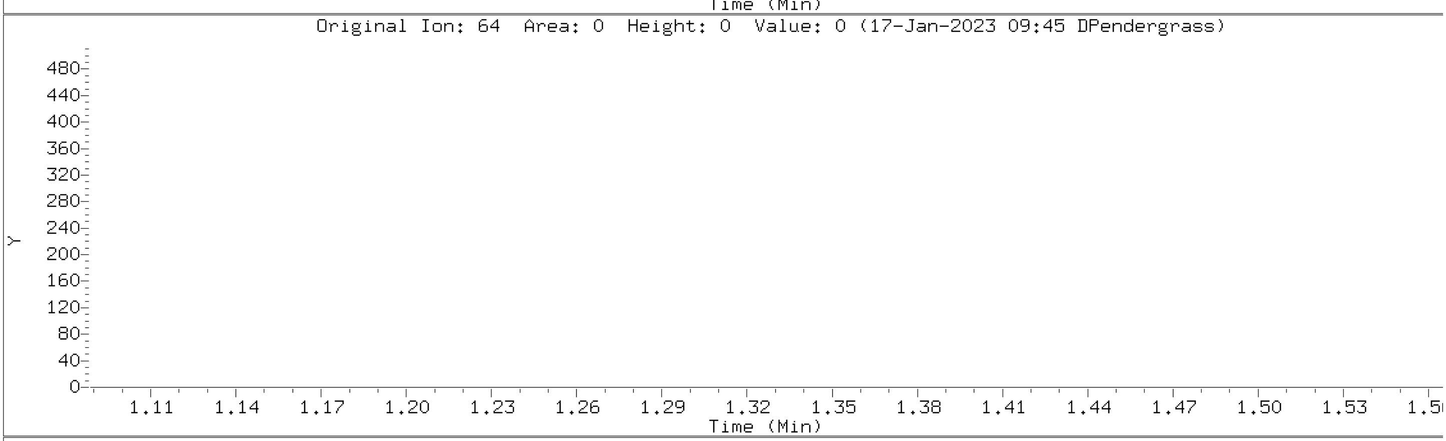


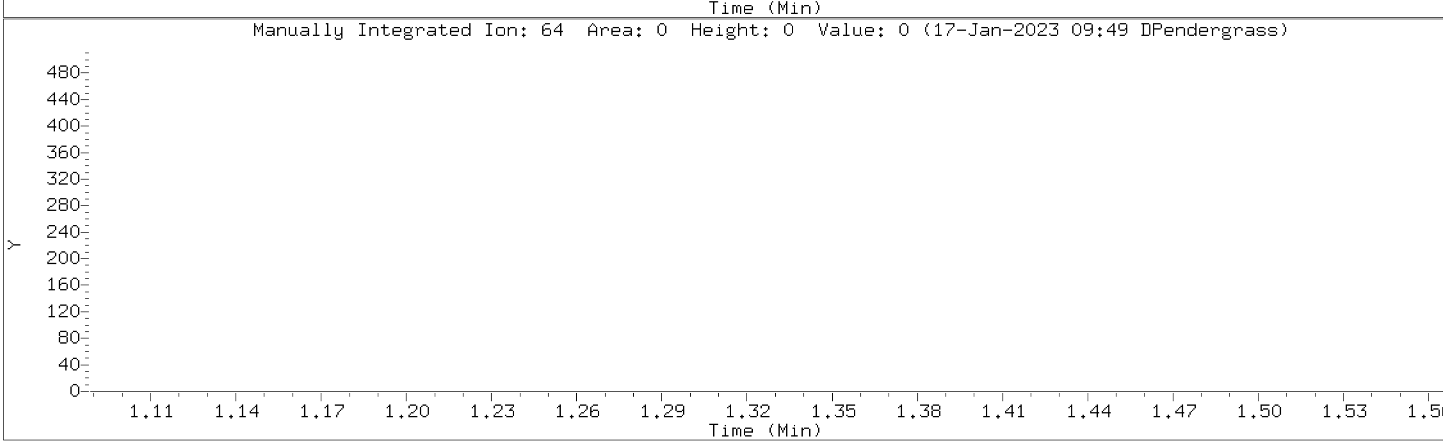
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b01.d
Injection Date: 16-JAN-2023 14:21
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Chloride Review Code: NI
CAS Number: 75-01-4









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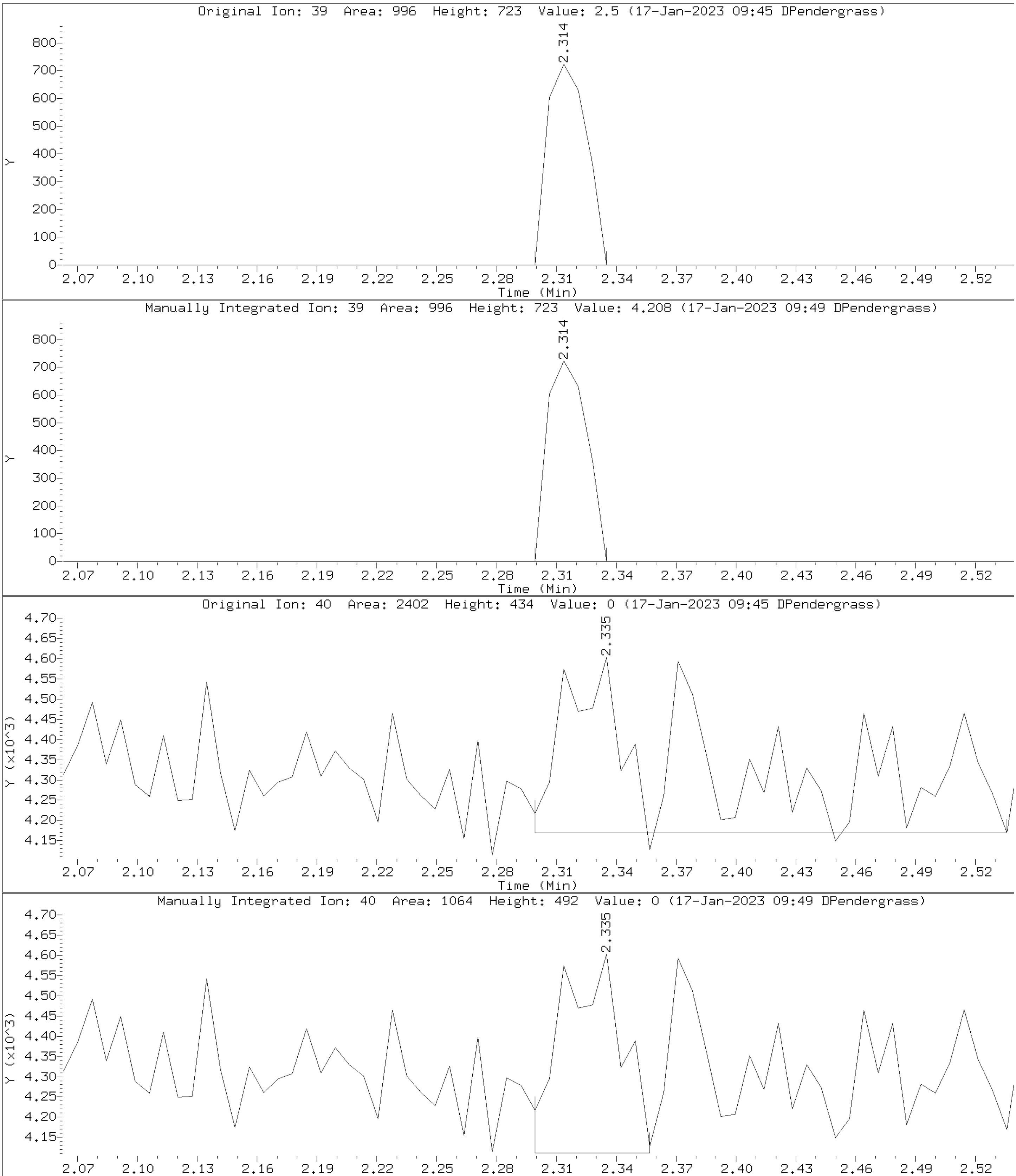
Injection Date: 16-JAN-2023 14:21
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL1

Compound: Acetonitrile   Review Code: LT
CAS Number: 75-05-8



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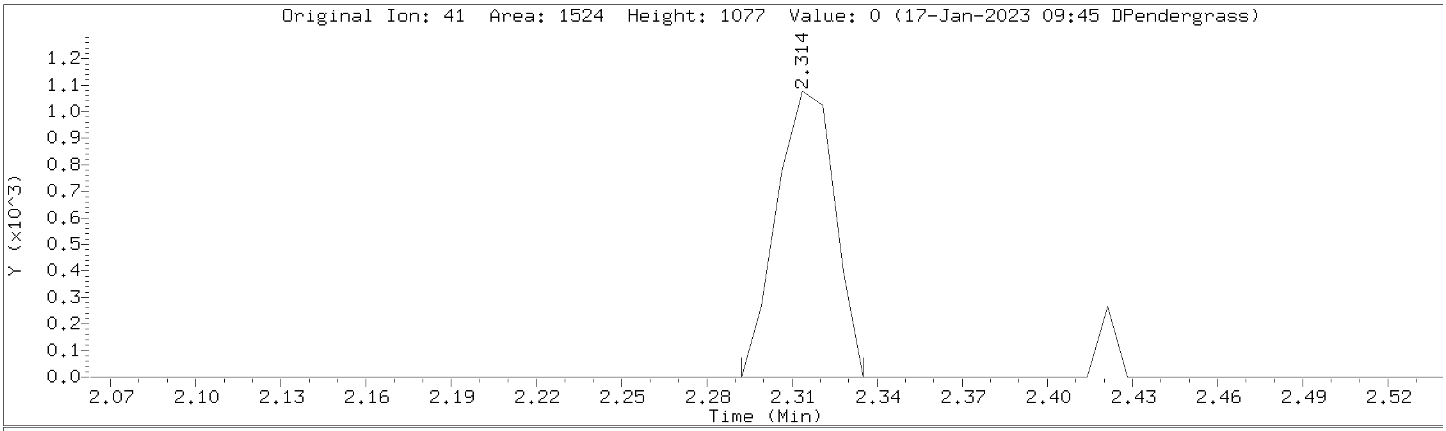
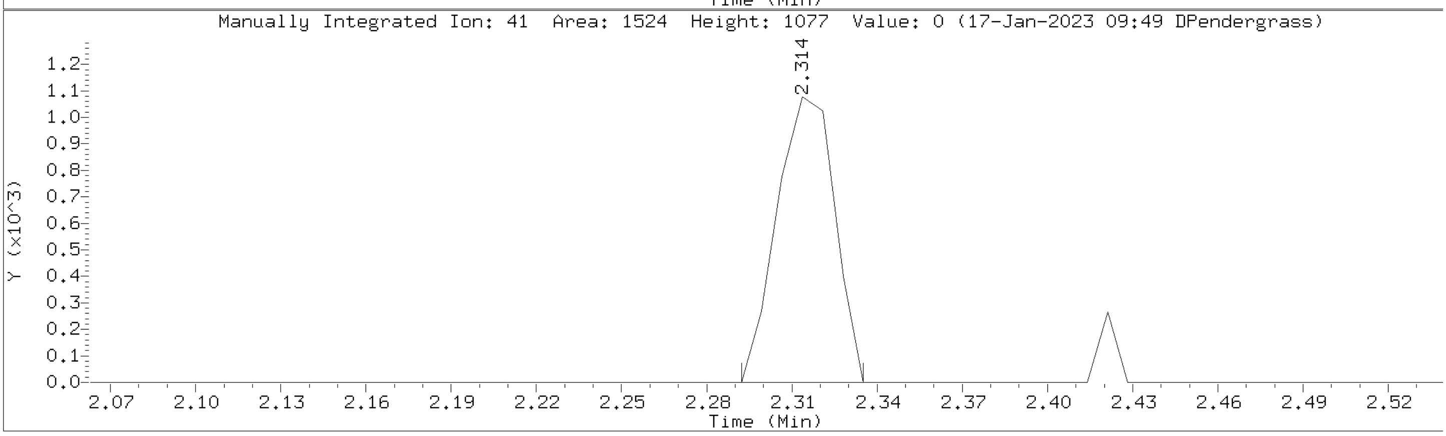
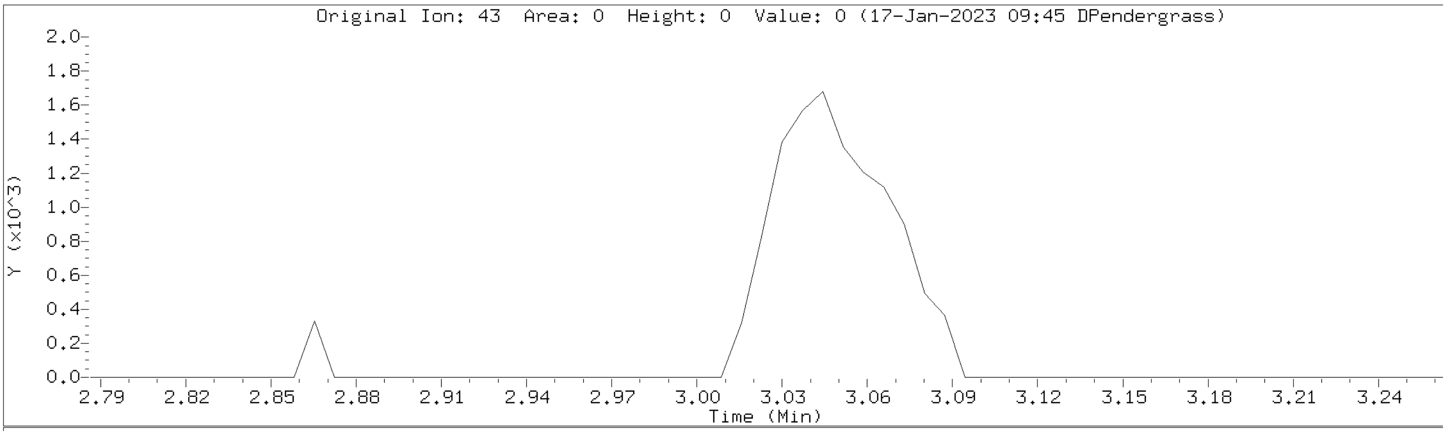
Injection Date: 16-JAN-2023 14:21
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL1

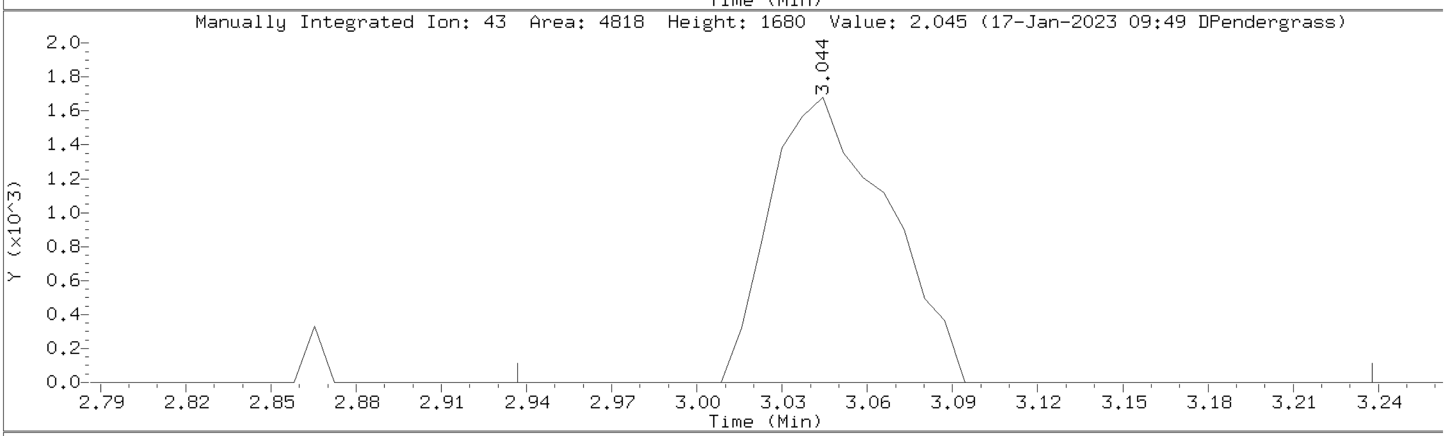


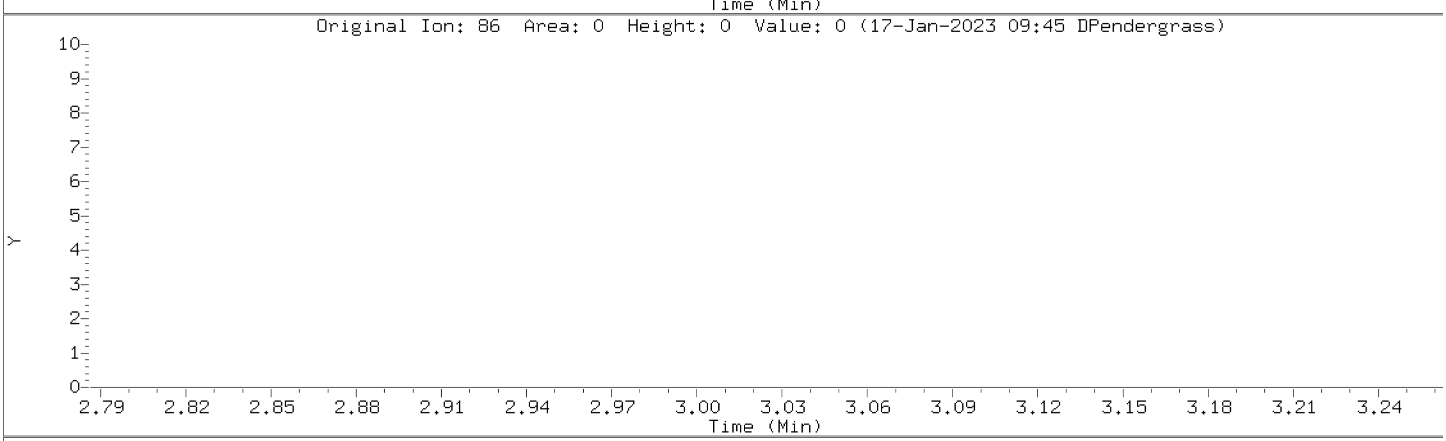


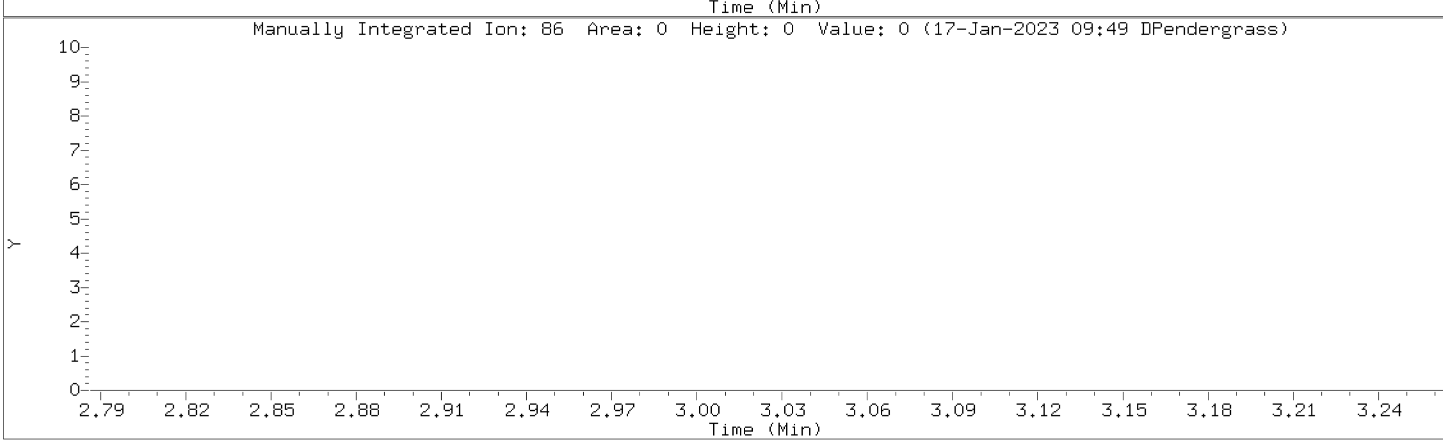
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b01.d
Injection Date: 16-JAN-2023 14:21
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Acetate   Review Code: NI
CAS Number: 108-05-4









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Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b02.d
Lab Smp Id: 8260-CAL2 Client Smp ID: 8260-CAL2
Inj Date : 16-JAN-2023 14:54
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal2,335762:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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

	QUANT SIG					AMOUNTS		
						CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.174	1.175	(0.236)	942	1.00000	0.623(M)	NI
2 Chloromethane	50	1.289	1.296	(0.259)	1600	1.00000	1.07(M)	NI
3 Vinyl Chloride	62	1.339	1.339	(0.269)	1586	1.00000	0.968	
4 Bromomethane	94	1.532	1.533	(0.308)	553	1.00000	0.723	
5 Chloroethane	64	1.590	1.590	(0.319)	861	1.00000	0.923(M)	NI
6 Trichlorofluoromethane	101	1.740	1.740	(0.350)	1688	1.00000	0.897	
7 Diethyl ether	74	1.912	1.912	(0.384)	982	1.00000	1.11	
8 Acrolein	56	1.991	1.991	(0.400)	4348	20.0000	15.6	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	1098	1.00000	0.873	
10 1,1-Dichloroethene	96	2.070	2.070	(0.416)	1273	1.00000	1.02	
11 Acetone	43	2.091	2.091	(0.420)	2535	5.00000	6.22	
12 Iodomethane	142	2.184	2.177	(0.439)	1691	1.00000	0.962	
13 Carbon Disulfide	76	2.241	2.234	(0.450)	4620	1.00000	1.11(M)	NI
14 Acetonitrile	39	2.313	2.313	(0.465)	1586	5.00000	3.85(M)	LT
15 allyl chloride	41	2.313	2.314	(0.465)	2497	1.00000	1.12	
16 Methyl Acetate	43	2.320	2.320	(0.466)	6069	5.00000	5.52	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.495)	232	5.00000	1.98	
18 Methylene Chloride	84	2.399	2.399	(0.482)	3842	1.00000	0.674	
19 Acrylonitrile	53	2.578	2.585	(0.518)	2038	5.00000	4.01	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.528)	4783	1.00000	1.20	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.528)	1568	1.00000	1.10	
22 n-Hexane	57	2.865	2.872	(0.576)	1389	1.00000	0.794(M)	NI

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	2.994	2.994	(0.601)	3079	1.00000	1.26(M)	NI
24 Vinyl Acetate	43	3.037	3.037	(0.610)	9123	4.00000	3.47	
25 Diisopropyl ether	45	3.065	3.065	(0.616)	5257	1.00000	1.31	
26 chloroprene	53	3.094	3.094	(0.622)	2090	1.00000	1.08(M)	NI
27 Ethyl-tert-butyl ether	59	3.452	3.459	(0.694)	5336	1.00000	1.32	
28 2,2-Dichloropropane	77	3.624	3.624	(0.728)	2184	1.00000	1.15(M)	NI
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.727)	1887	1.00000	1.19	
30 2-Butanone	43	3.631	3.624	(0.729)	3390	5.00000	5.49(M)	WP
31 Ethyl Acetate	88	Compound Not Detected.						
32 Propionitrile	54	3.696	3.689	(0.742)	233	5.00000	1.31(M)	NI
33 Methacrylonitrile	41	3.889	3.889	(0.781)	3717	5.00000	4.71	
34 Bromochloromethane	49	3.910	3.903	(0.786)	1335	1.00000	1.25	
35 Tetrahydrofuran	42	3.989	3.982	(0.801)	1957	5.00000	4.39	
36 Chloroform	83	4.004	4.011	(0.804)	3345	1.00000	1.36	
$ 37 Dibromofluoromethane (S)	113	4.197	4.197	(0.843)	46636	50.0000	45.7	
38 1,1,1-Trichloroethane	97	4.240	4.240	(0.852)	2292	1.00000	1.13	
39 Cyclohexane	56	4.312	4.312	(0.866)	2021	1.00000	0.942	
40 Carbon Tetrachloride	117	4.441	4.441	(0.892)	1663	1.00000	0.938	
41 1,1-Dichloropropene	75	4.433	4.433	(0.891)	1702	1.00000	0.971	
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	4.670	4.670	(0.938)	7853	1.00000	1.30	
44 1,2-Dichloroethane	62	4.677	4.677	(0.940)	2506	1.00000	0.809(M)	NI
45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.960)	2970	1.00000	0.870	
46 tert-Amylmethyl ether	73	4.820	4.814	(0.968)	4875	1.00000	1.24	
* 47 Fluorobenzene	96	4.978	4.985	(1.000)	224770	50.0000		
48 Trichloroethene	95	5.379	5.379	(1.081)	1828	1.00000	1.21	
49 Methylcyclohexane	55	5.579	5.587	(1.121)	1565	1.00000	0.977(M)	WP
50 1,2-Dichloropropane	63	5.601	5.601	(1.125)	2343	1.00000	1.11(M)	NI
51 Dibromomethane	93	5.716	5.716	(1.148)	1159	1.00000	1.35	
52 Methyl methacrylate	69	5.751	5.759	(1.155)	1092	1.00000	0.996	
53 1,4-Dioxane	88	Compound Not Detected.						
54 Bromodichloromethane	83	5.887	5.888	(1.183)	2631	1.00000	0.991(M)	NI
55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	4595	5.00000	5.22	
56 cis-1,3-Dichloropropene	75	6.339	6.346	(0.831)	3220	1.00000	1.37	
57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	7136	5.00000	5.21	
$ 58 Toluene-d8	98	6.589	6.589	(0.864)	217975	50.0000	50.3	
59 Toluene	91	6.647	6.647	(0.871)	8425	1.00000	1.31	
60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	2726	1.00000	1.32	
61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	2067	1.00000	1.10(M)	NI
62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	1469	1.00000	1.36	
63 Tetrachloroethene	166	7.077	7.077	(0.928)	1957	1.00000	1.12	
64 1,3-Dichloropropane	76	7.084	7.091	(0.929)	3205	1.00000	1.40	
65 2-Hexanone	43	7.162	7.163	(0.939)	5377	5.00000	5.32	
66 Dibromochloromethane	129	7.248	7.248	(0.950)	1962	1.00000	1.29	
67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	1781	1.00000	1.28	
* 68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	167068	50.0000		
69 Chlorobenzene	112	7.650	7.650	(1.003)	5350	1.00000	1.27	
70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	1724	1.00000	1.18	
71 Ethylbenzene	106	7.721	7.721	(1.012)	2544	1.00000	1.16	
72 m&p-Xylene	106	7.786	7.793	(1.021)	3482	1.00000	1.25	
73 o-Xylene	106	8.015	8.022	(1.051)	2978	1.00000	1.16	
74 Styrene	104	8.022	8.022	(1.052)	5005	1.00000	1.15	
75 Bromoform	173	8.122	8.130	(0.915)	1387	1.00000	1.20(M)	NI
76 Isopropylbenzene	105	8.223	8.223	(1.078)	6846	1.00000	1.07	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.088)	77962	50.0000	49.5	
78 Bromobenzene	77	8.380	8.380	(1.099)	4117	1.00000	1.29	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	2497	1.00000	1.31(M)	NI
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	722	1.00000	1.20(M)	NI
81 trans-1,4-Dichloro-2-butene	53	8.395	8.402	(1.100)	552	1.00000	1.10(M)	NI
82 n-Propylbenzene	91	8.430	8.438	(0.950)	7730	1.00000	1.06	
83 2-Chlorotoluene	91	8.480	8.481	(0.956)	5250	1.00000	1.18	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	5470	1.00000	1.08	
85 4-Chlorotoluene	126	8.538	8.538	(0.962)	2055	1.00000	1.23	
86 tert-Butylbenzene	119	8.681	8.689	(0.978)	5257	1.00000	1.05(M)	GT
87 1,2,4-Trimethylbenzene	105	8.703	8.710	(0.981)	5697	1.00000	1.11	
88 sec-Butylbenzene	105	8.788	8.789	(0.990)	6310	1.00000	1.03	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	3515	1.00000	1.16	
90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	5591	1.00000	1.05	
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.874	(1.000)	90350	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	3884	1.00000	1.25	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	5916	1.00000	1.15	
94 n-Butylbenzene	91	9.039	9.046	(1.019)	4671	1.00000	1.08	
95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	3565	1.00000	1.24	
96 Hexachloroethane	201	9.190	9.190	(1.036)	823	1.00000	0.985(M)	NI
97 1,2-Dibromo-3-chloropropane	155	9.404	9.405	(1.060)	394	1.00000	1.00(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	2012	1.00000	1.26	
99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	672	1.00000	0.860	
100 Naphthalene	128	9.877	9.877	(1.113)	4754	1.00000	1.05	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	1566	1.00000	1.20	
102 2,methyl-naphthalene	142	10.414	10.415	(1.174)	339	1.00000	1.03(M)	NI
103 1-Methylnaphthalene	142	Compound Not Detected.						

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).
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\50mvcb.i\b011623cal.b\b02.d

Date : 16-JAN-2023 14:54

Client ID: 8260-CAL2

Sample Info: 8260-CAL2,335762:0

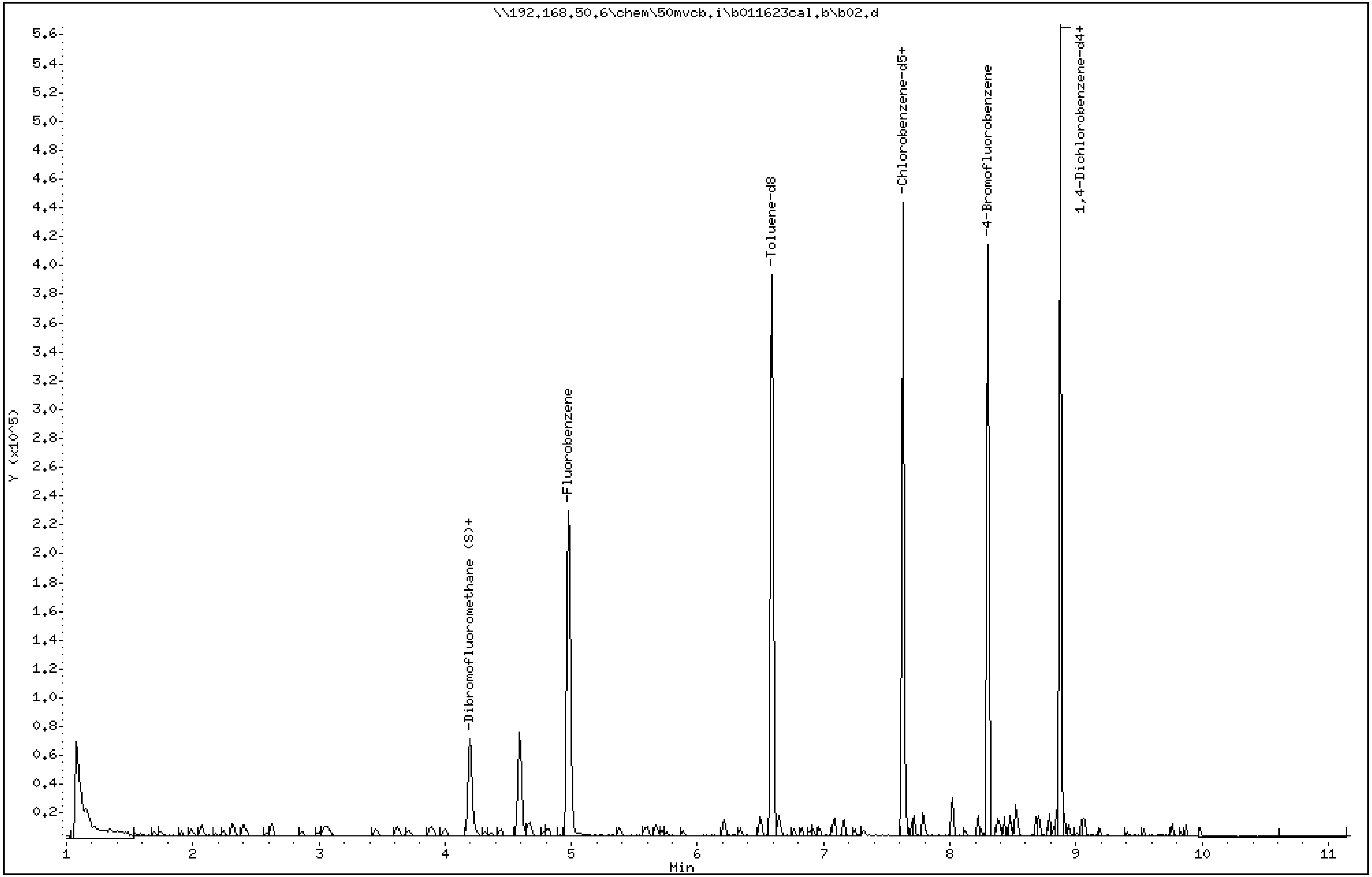
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvcb.i

Operator: DAP

Column diameter: 0.18



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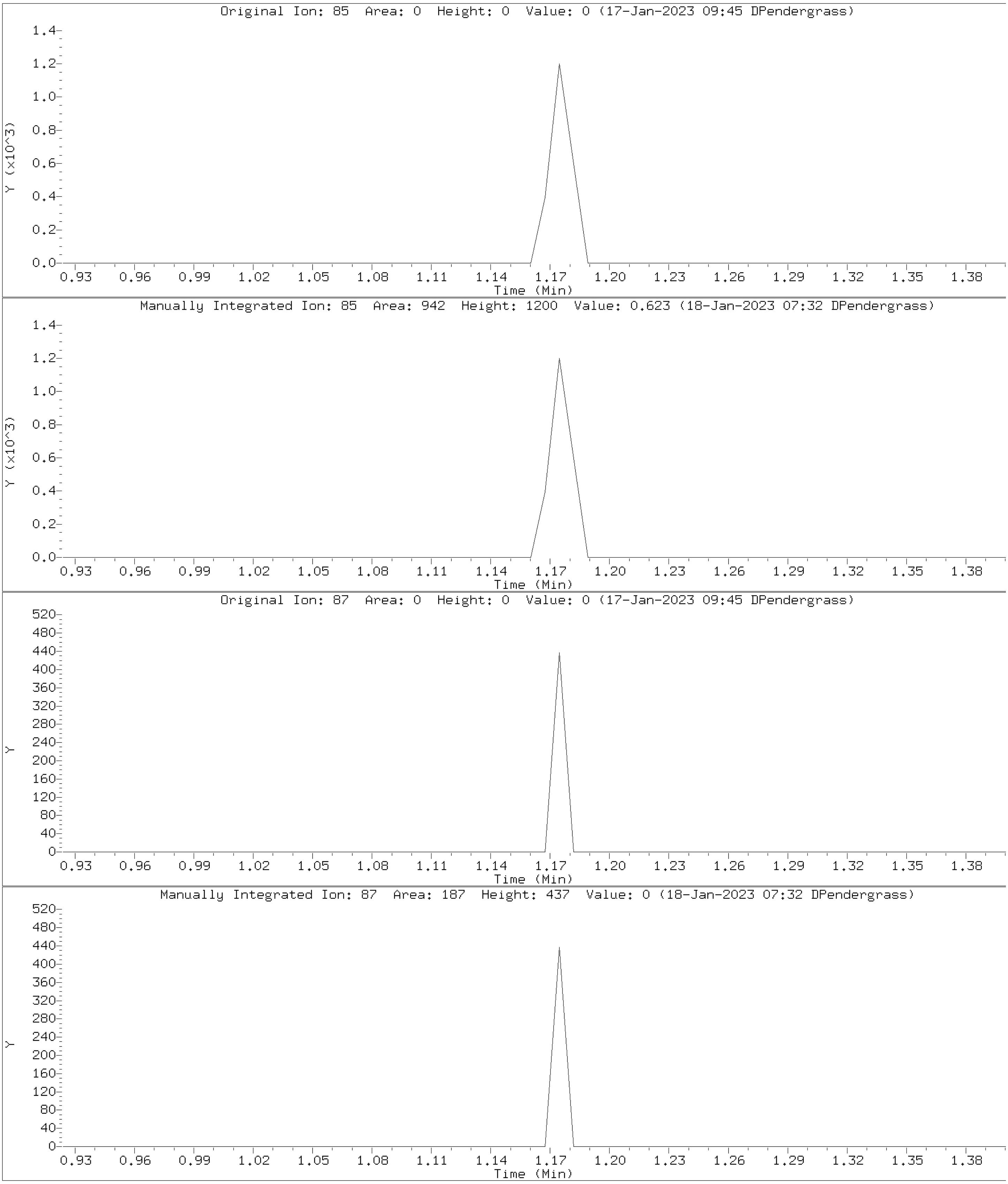
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 74-87-3



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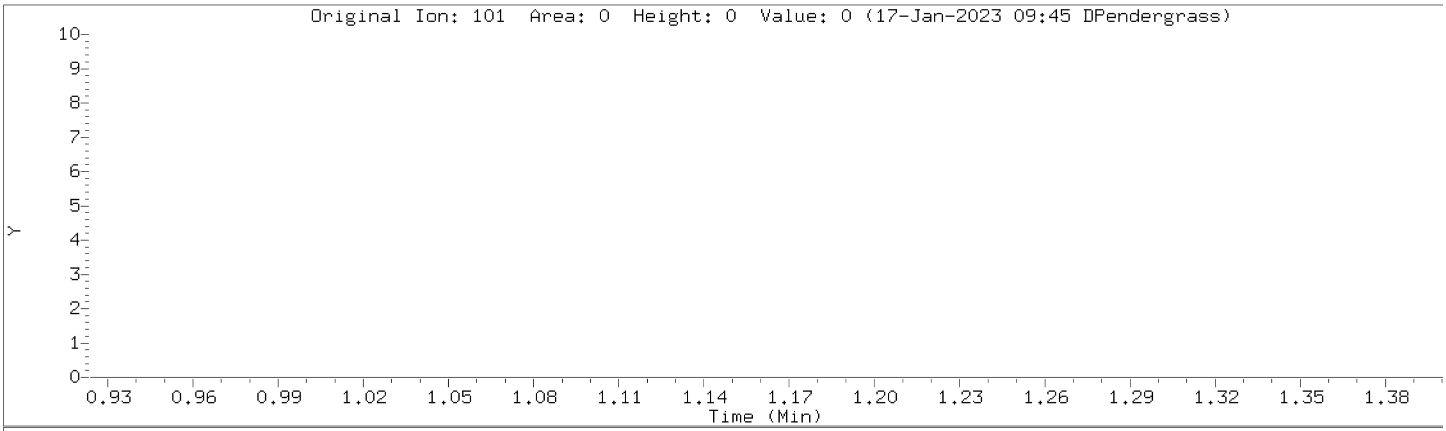
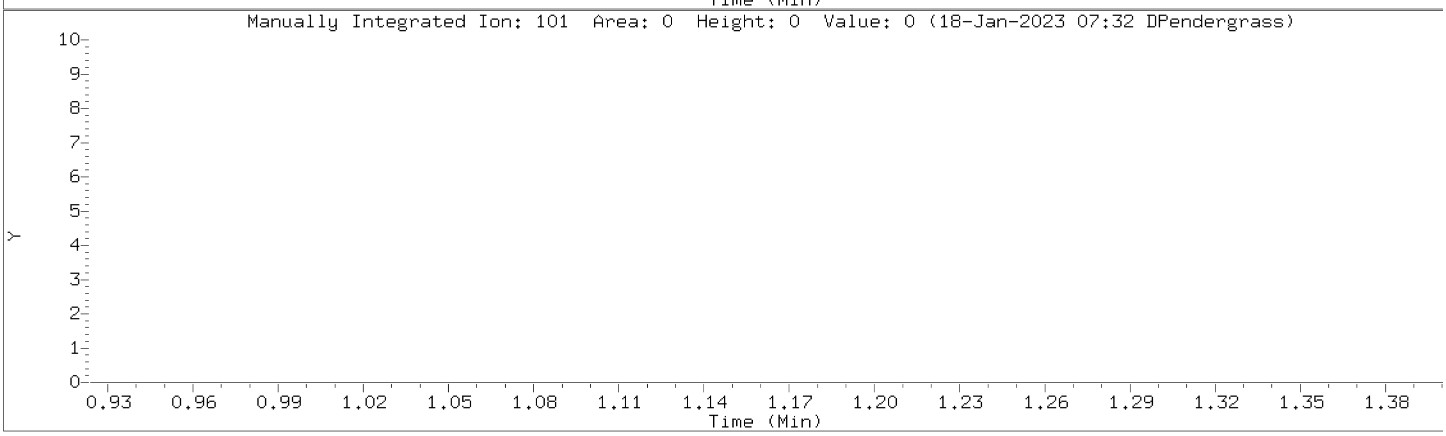
Lab Sample ID: 8260-CAL2





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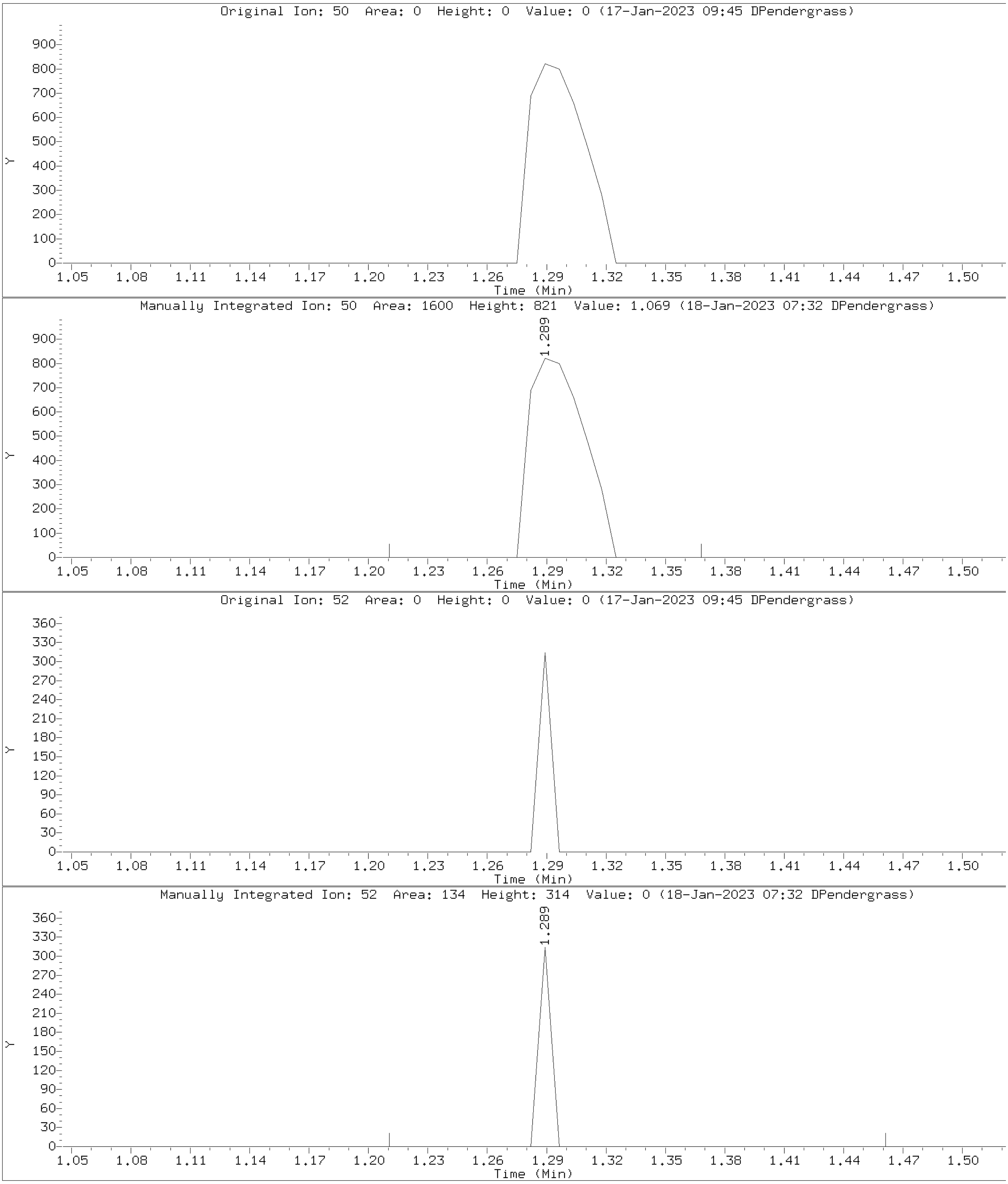
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Chloromethane   Review Code: NI
CAS Number: 74-87-3



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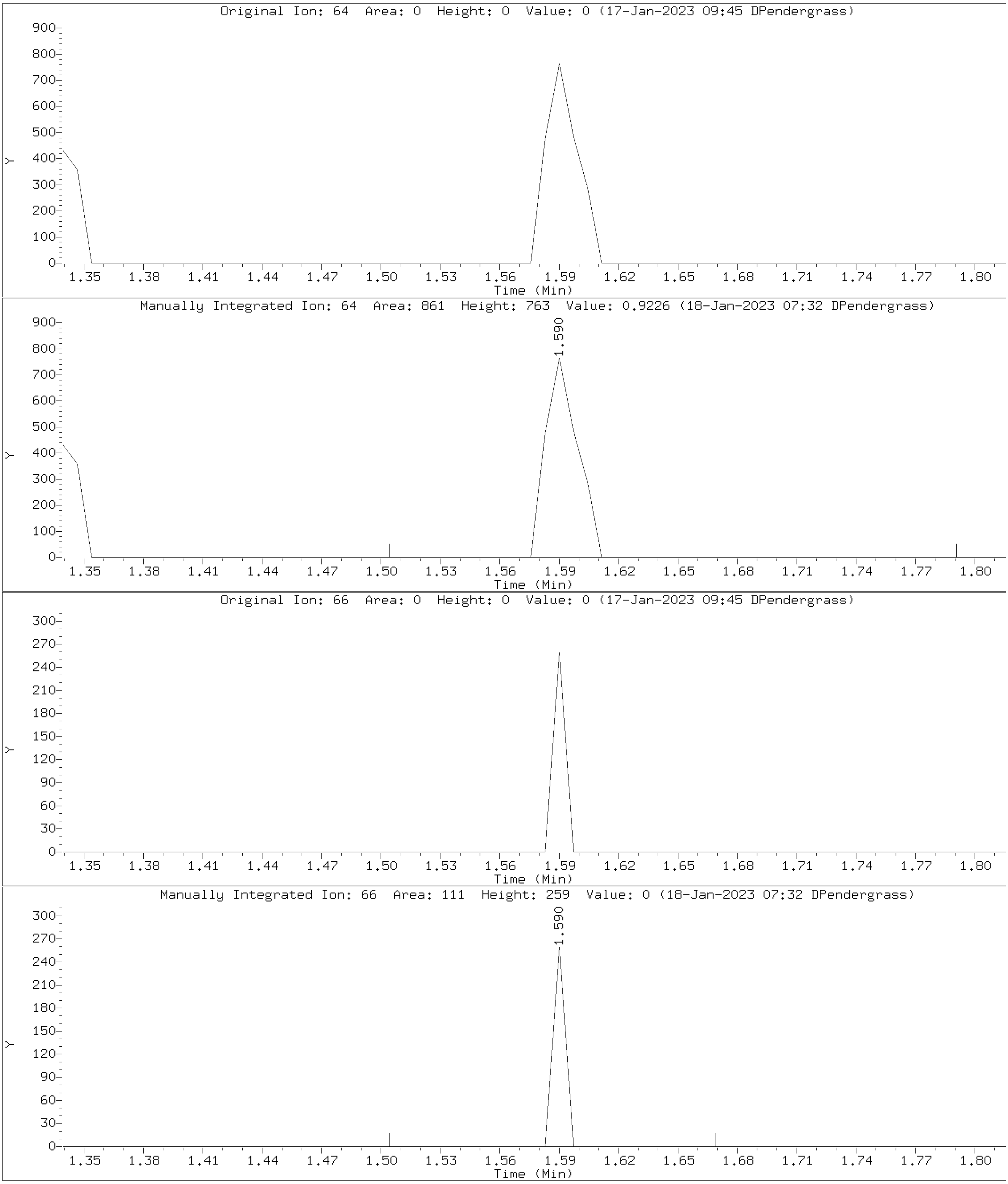
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Chloroethane   Review Code: NI
CAS Number: 75-00-3



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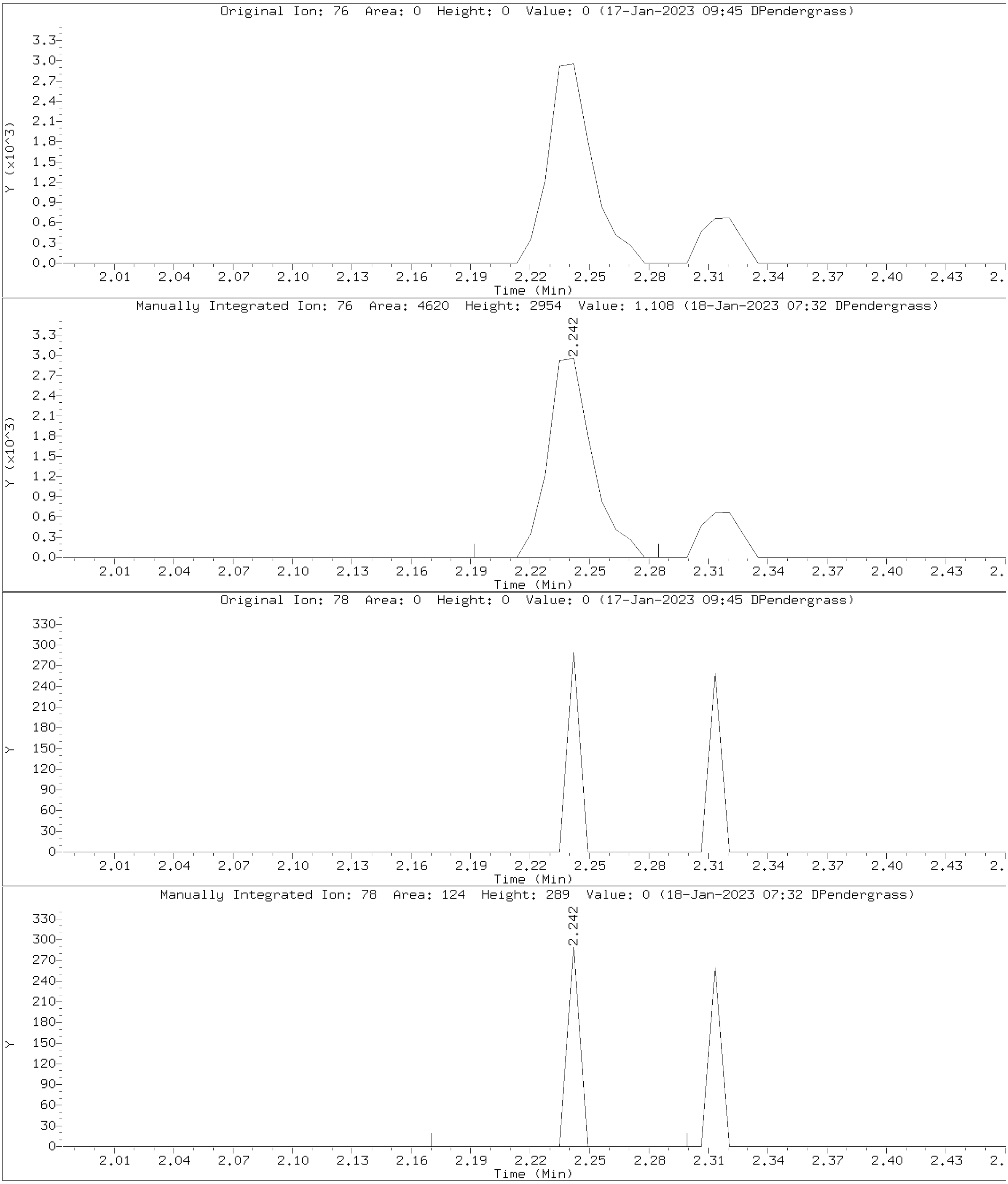
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Disulfide   Review Code: NI
CAS Number: 75-15-0



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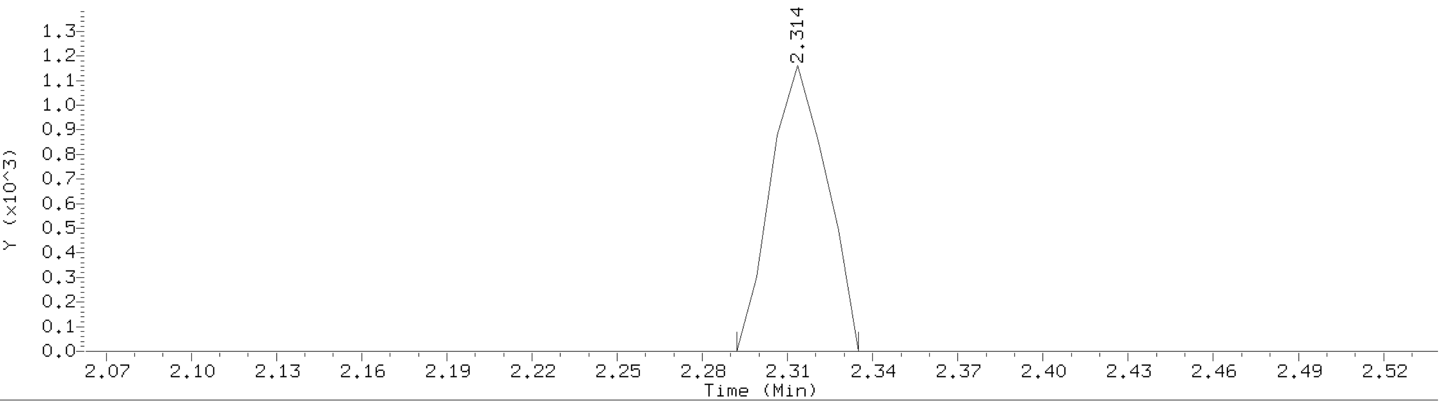
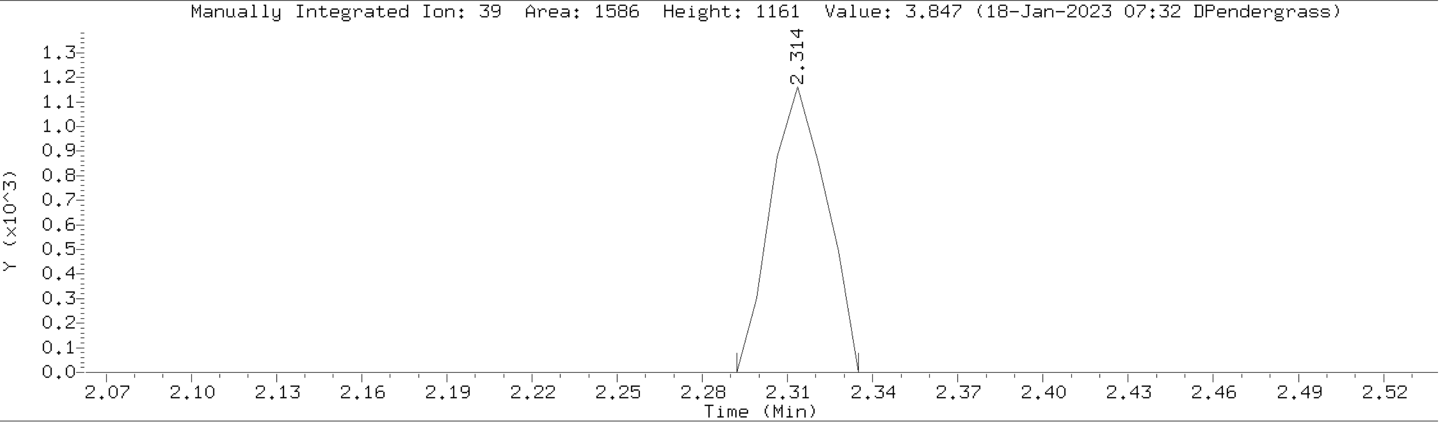
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile   Review Code: LT
CAS Number: 75-05-8

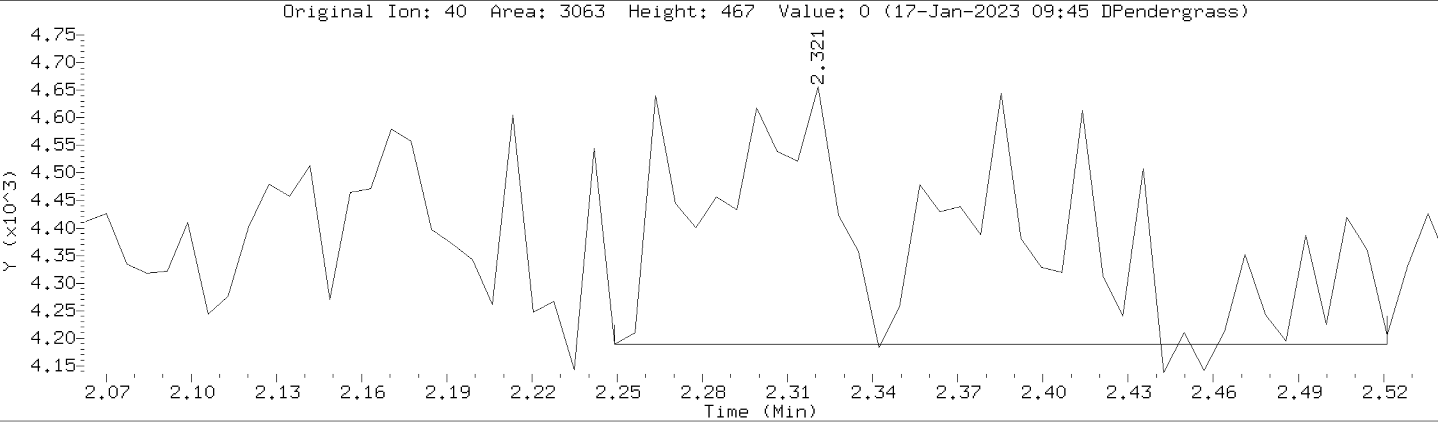
Original Ion: 39 Area: 1586 Height: 1161 Value: 4.161 (17-Jan-2023 09:45 DPendergrass)



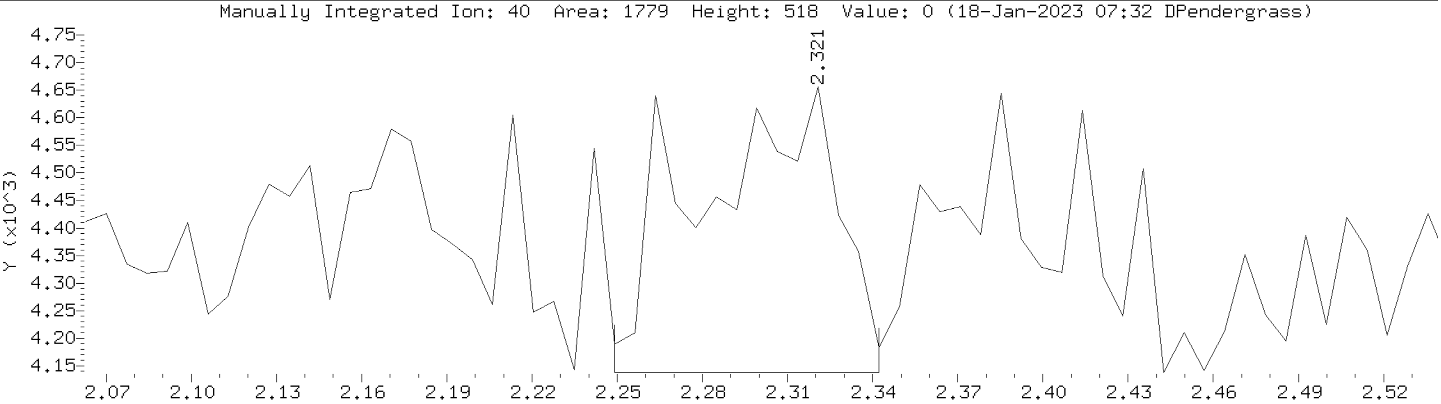
Manually Integrated Ion: 39 Area: 1586 Height: 1161 Value: 3.847 (18-Jan-2023 07:32 DPendergrass)



Original Ion: 40 Area: 3063 Height: 467 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 40 Area: 1779 Height: 518 Value: 0 (18-Jan-2023 07:32 DPendergrass)



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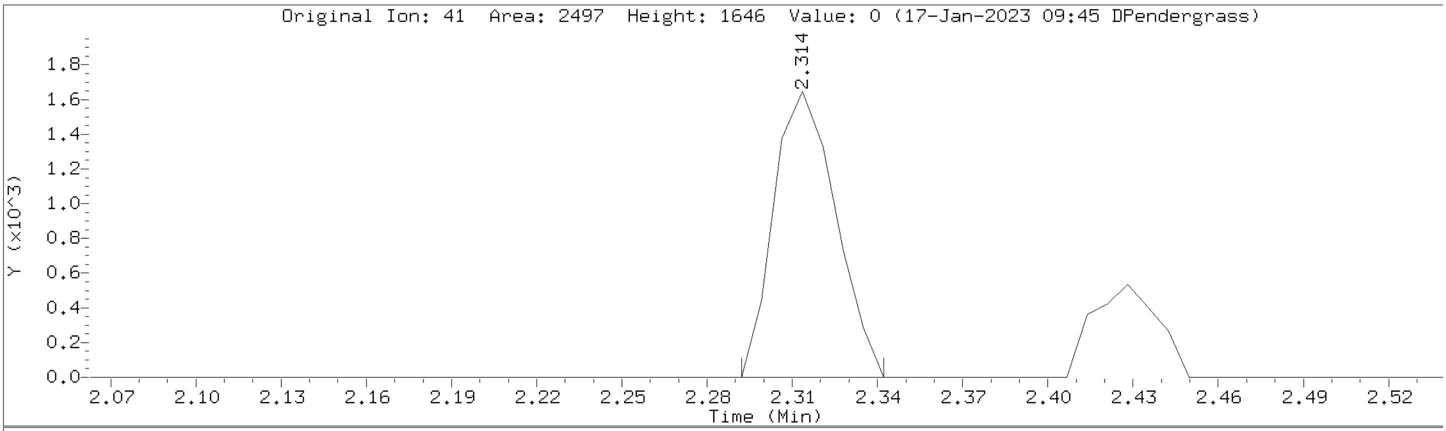
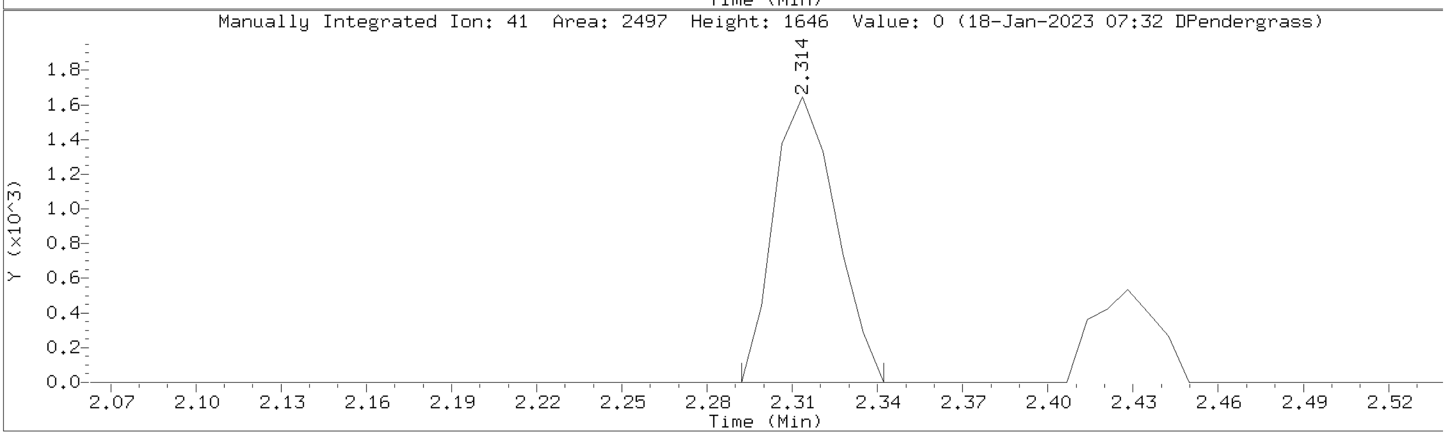
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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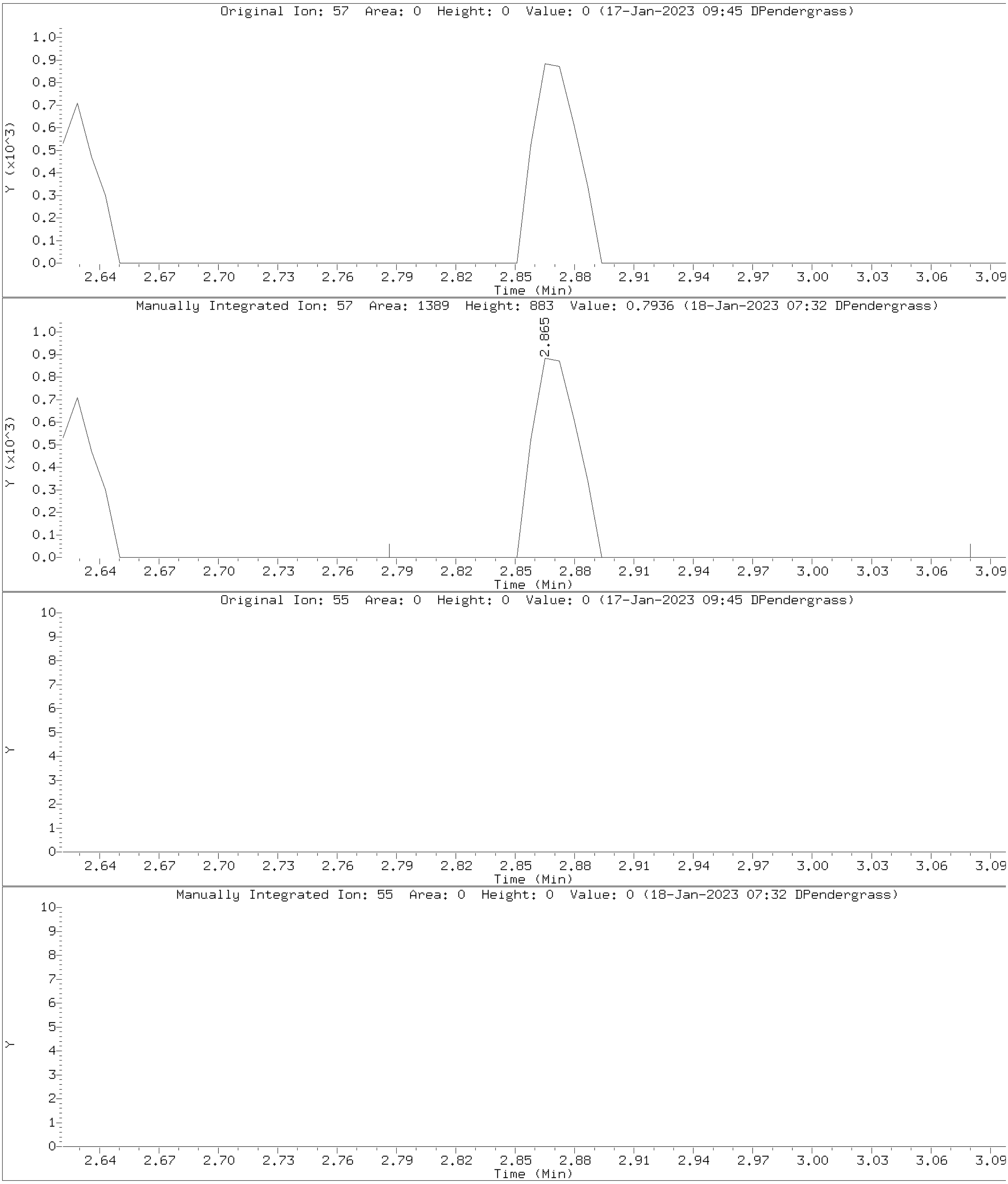
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: n-Hexane   Review Code: NI
CAS Number:



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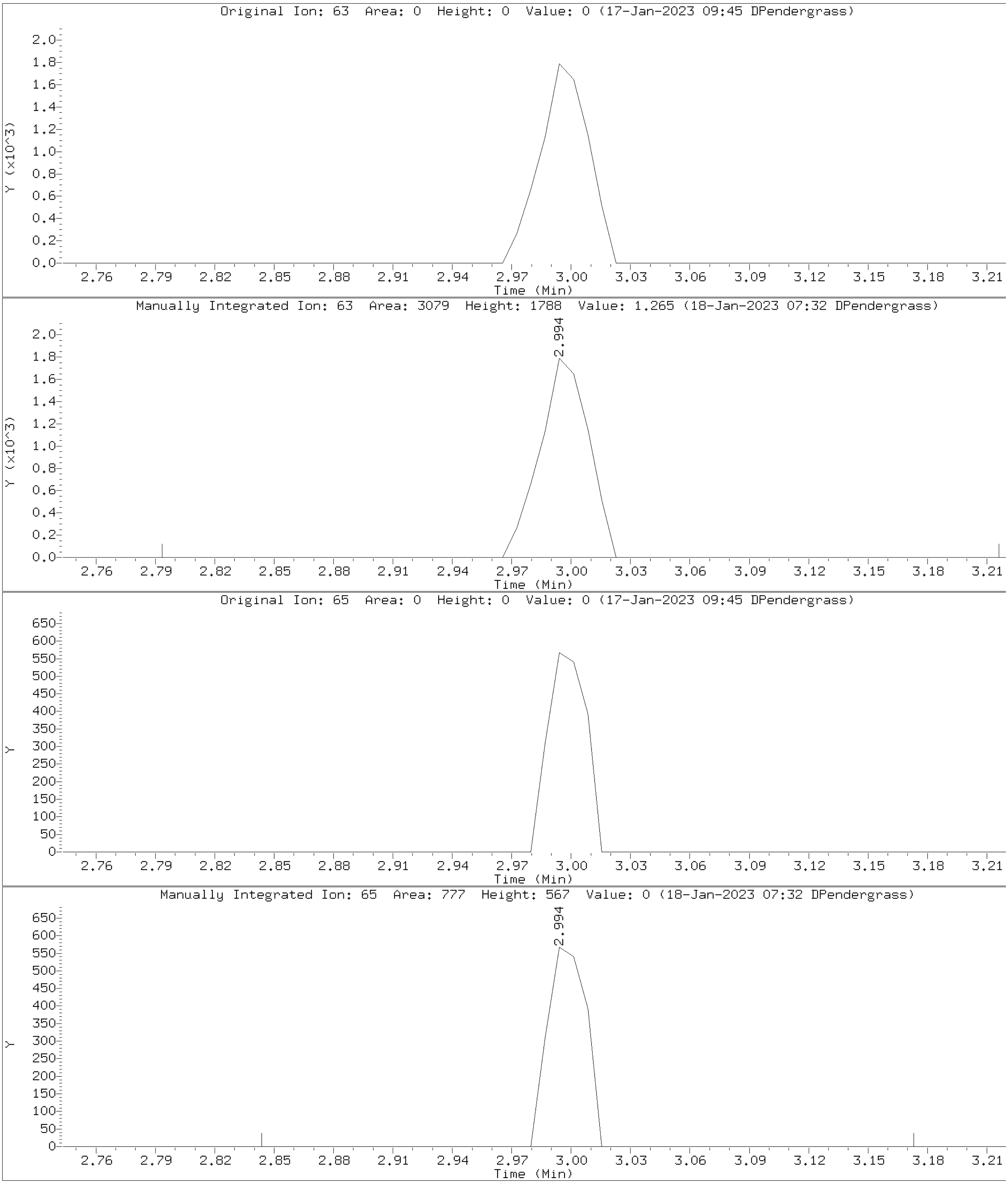
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethane   Review Code: NI
CAS Number: 75-34-3



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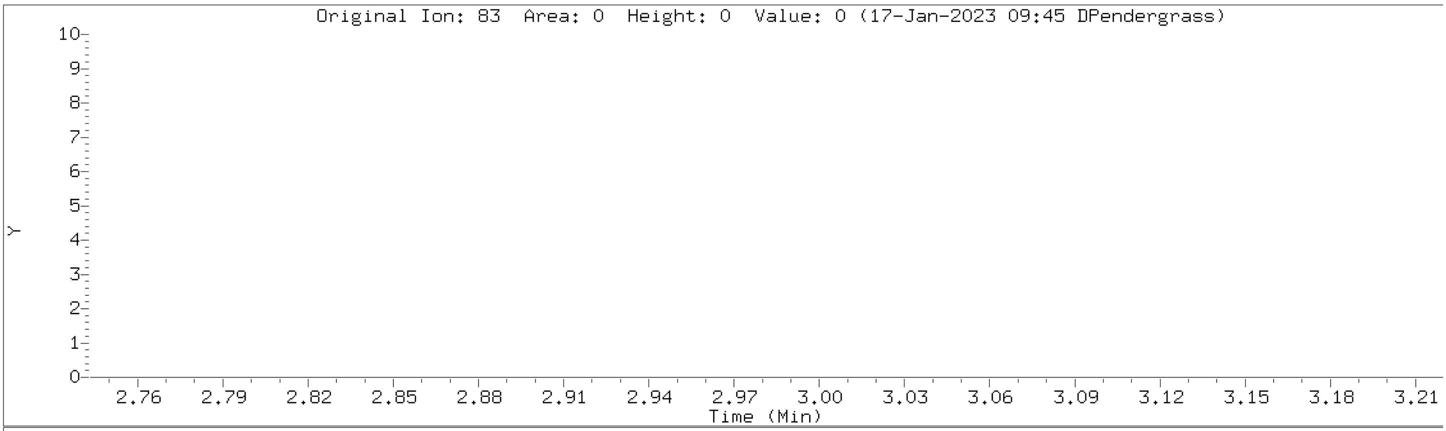
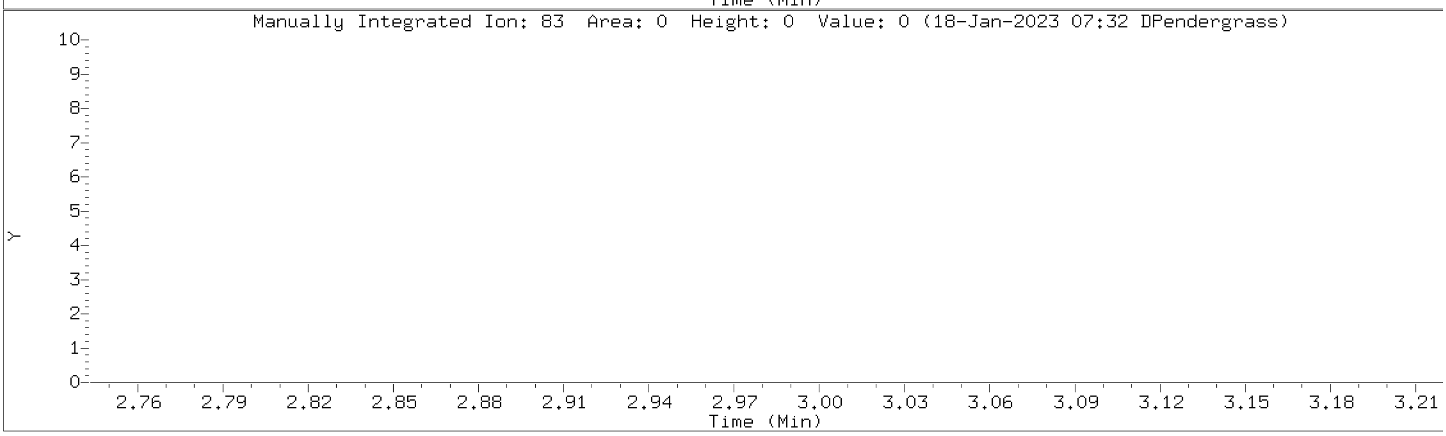
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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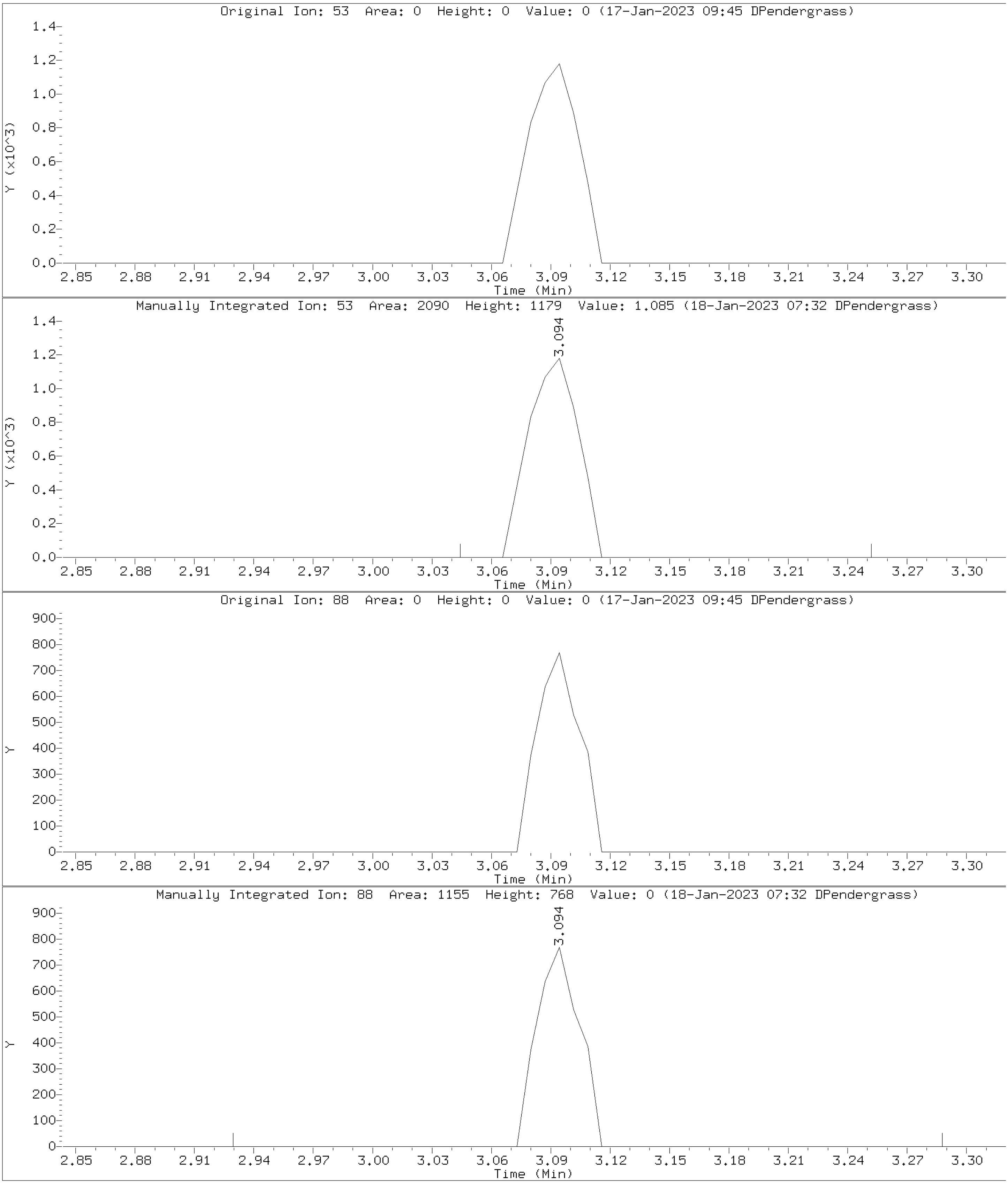
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: chloroprene   Review Code: NI
CAS Number: 126-99-8



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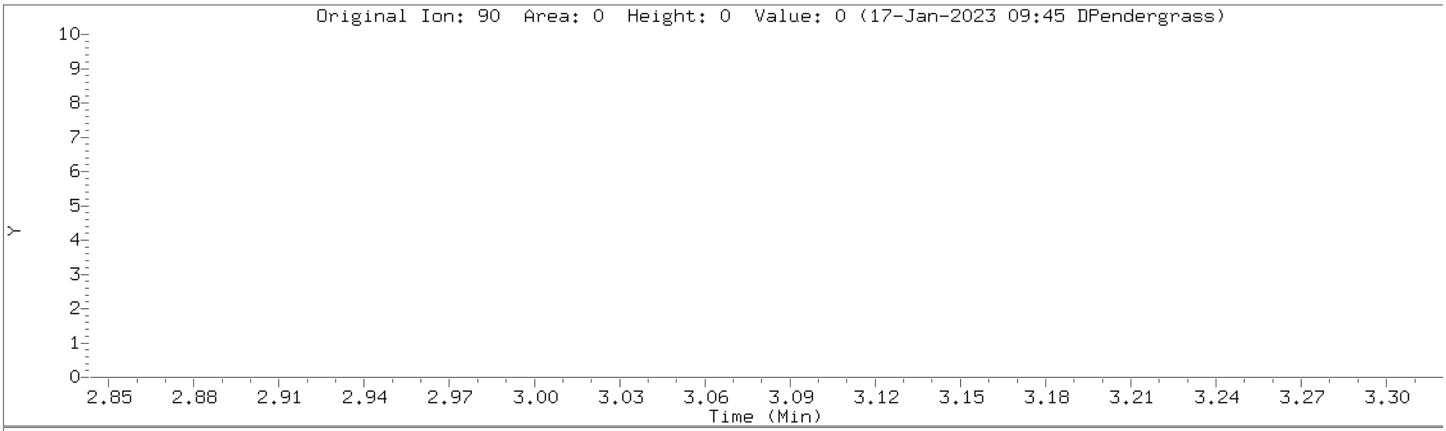
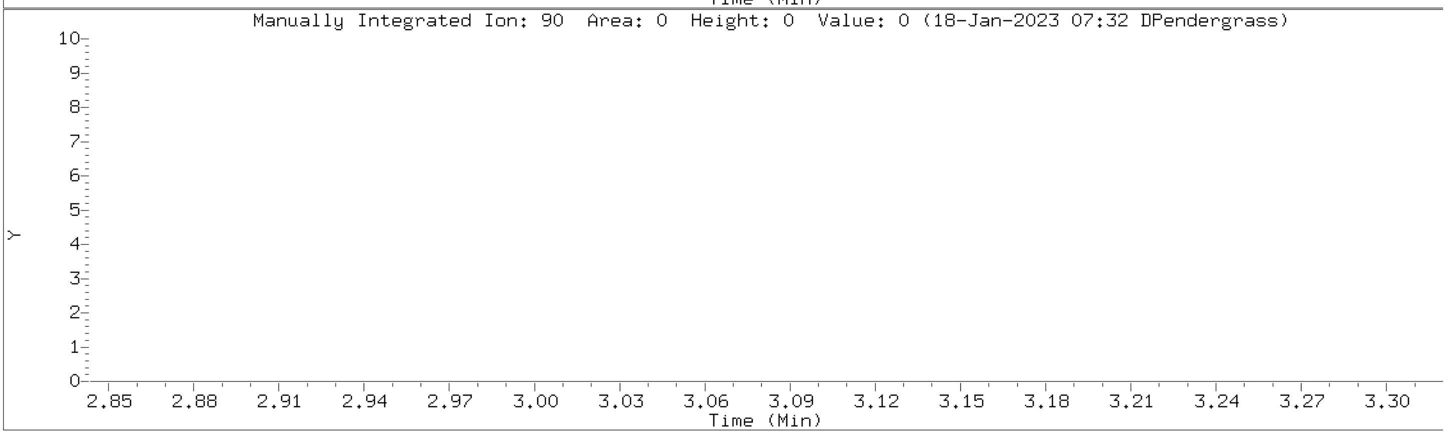
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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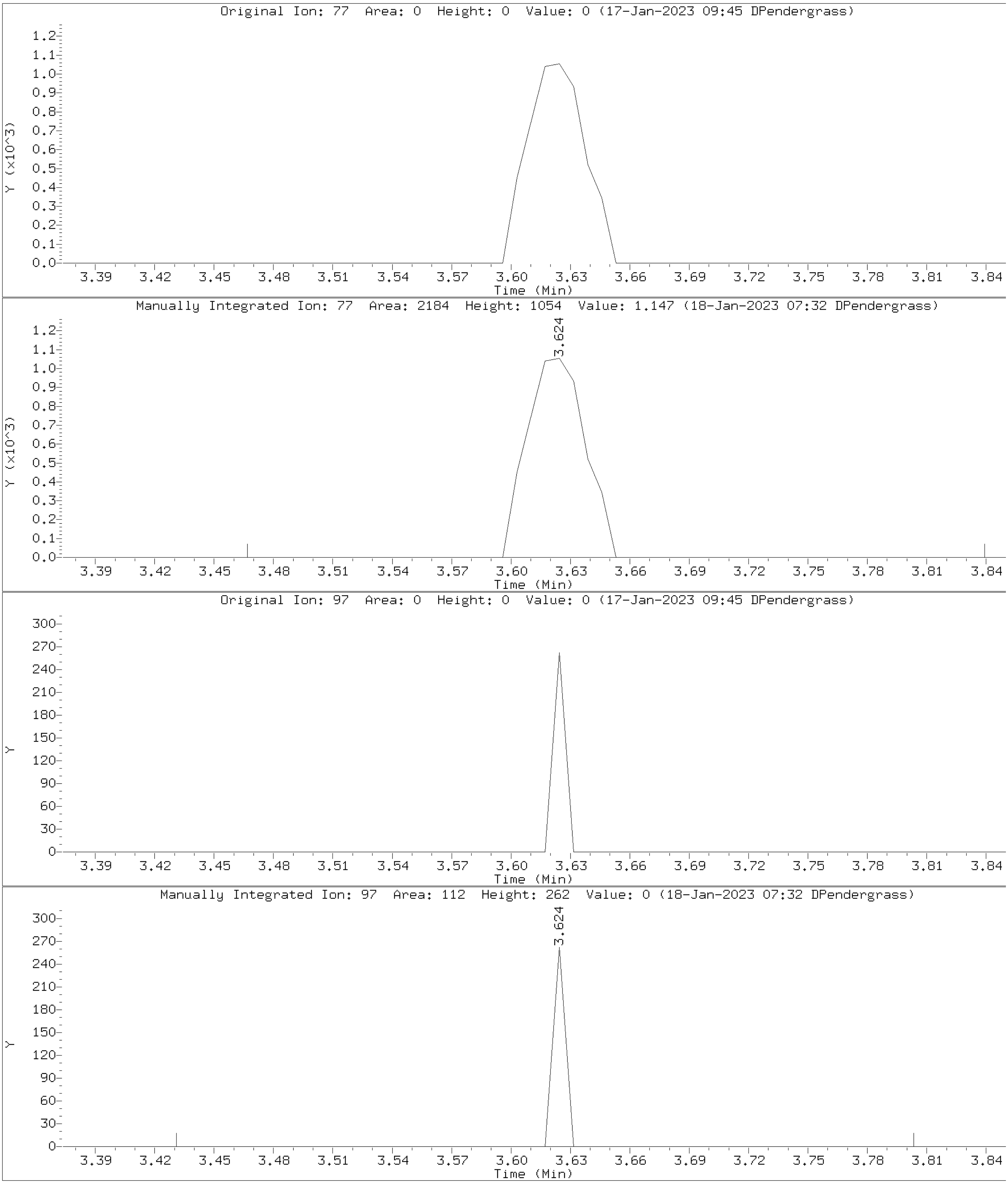
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 2,2-Dichloropropane   Review Code: NI
CAS Number: 594-20-7



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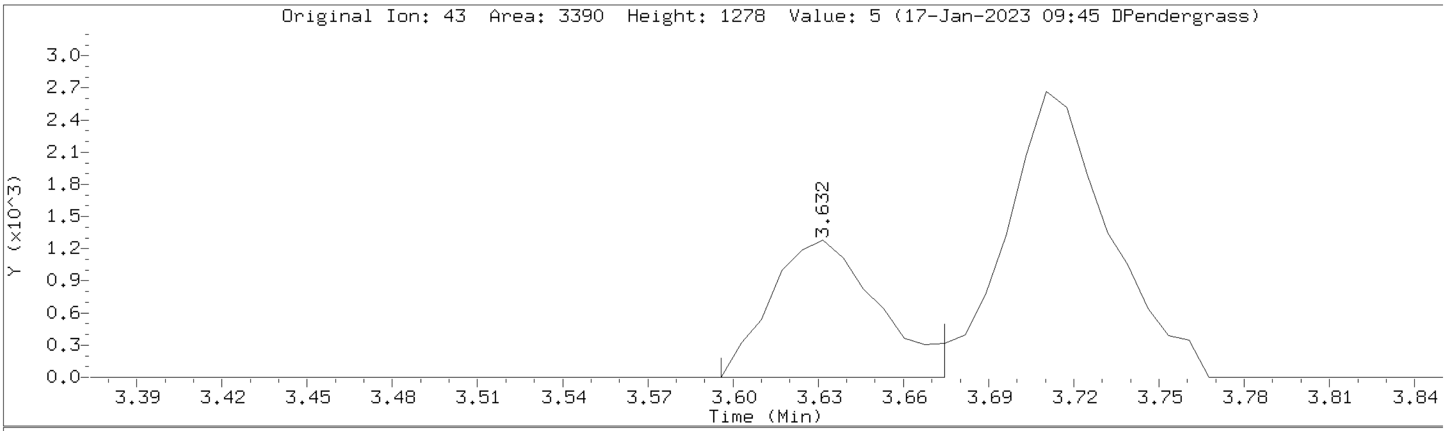
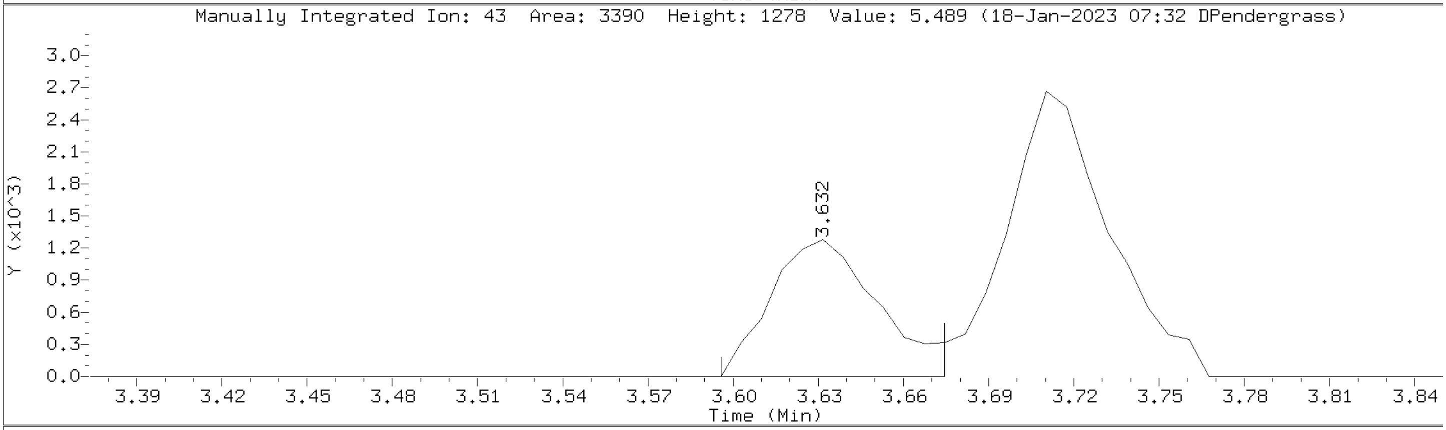
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 2-Butanone Review Code: WP
CAS Number: 78-93-3

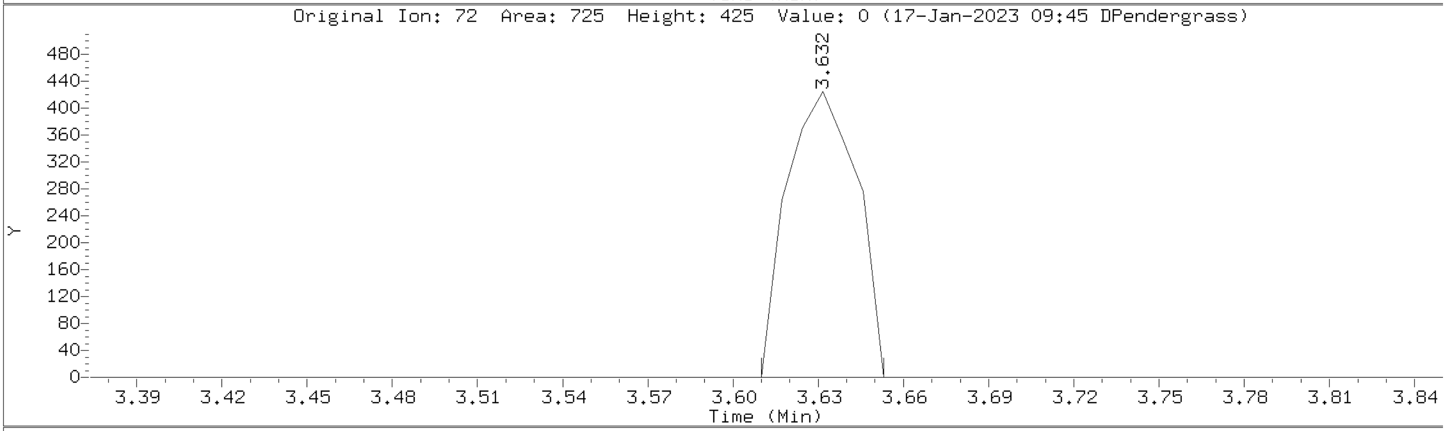
Original Ion: 43 Area: 3390 Height: 1278 Value: 5 (17-Jan-2023 09:45 DPendergrass)



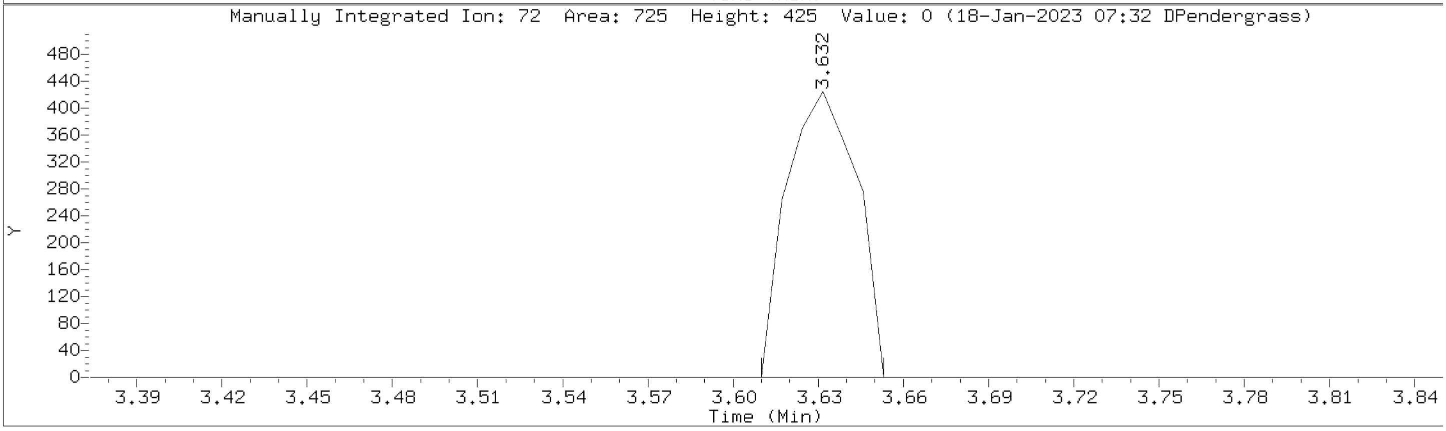
Manually Integrated Ion: 43 Area: 3390 Height: 1278 Value: 5.489 (18-Jan-2023 07:32 DPendergrass)



Original Ion: 72 Area: 725 Height: 425 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 72 Area: 725 Height: 425 Value: 0 (18-Jan-2023 07:32 DPendergrass)



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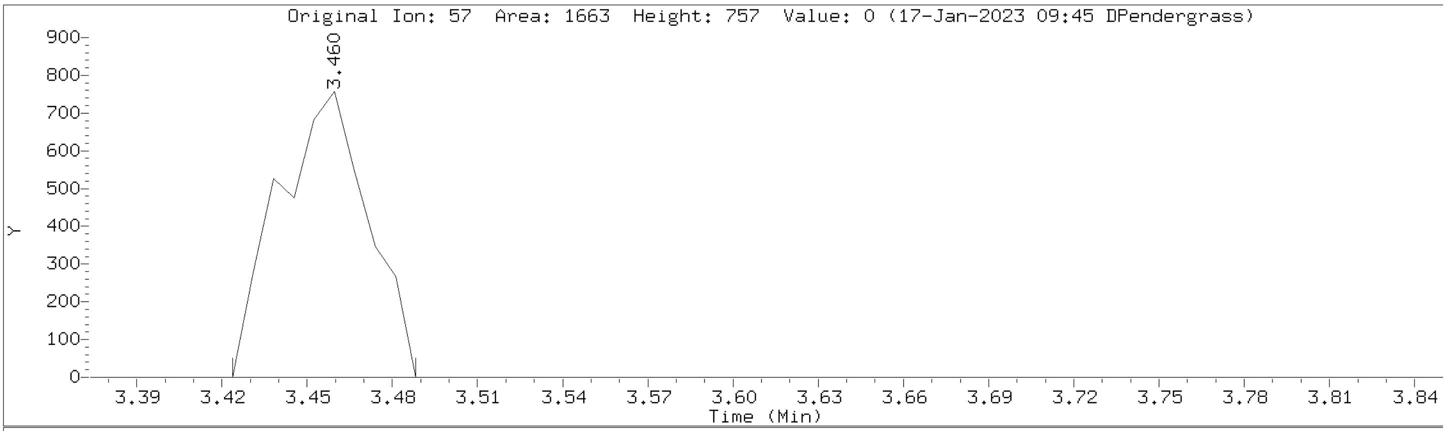
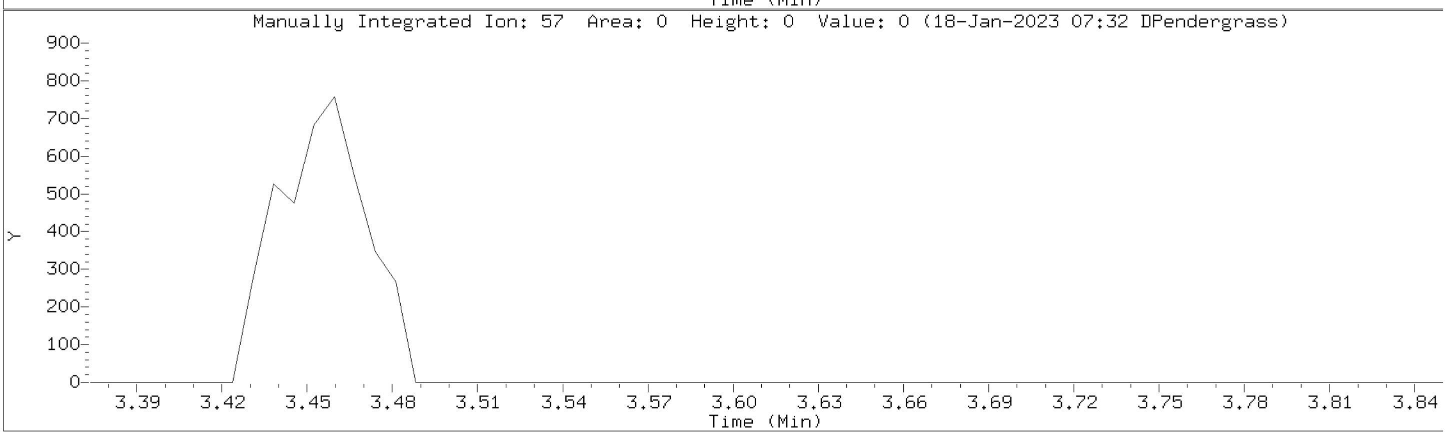
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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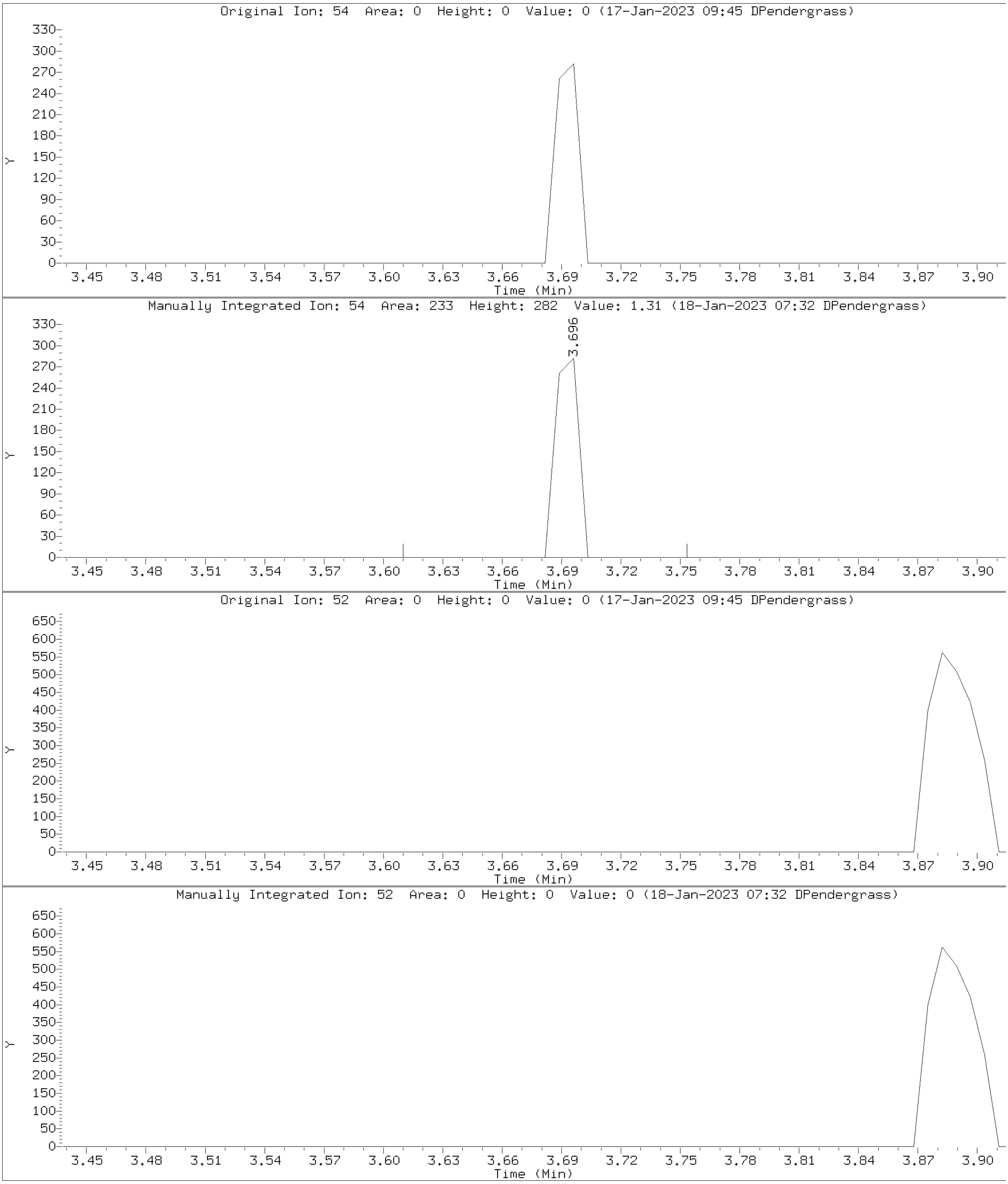
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0



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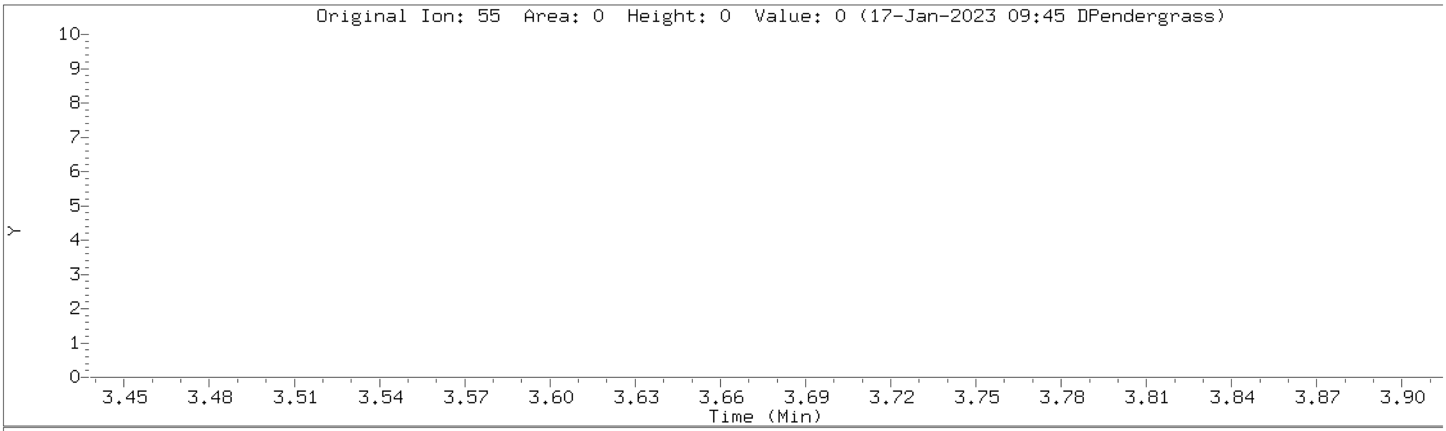
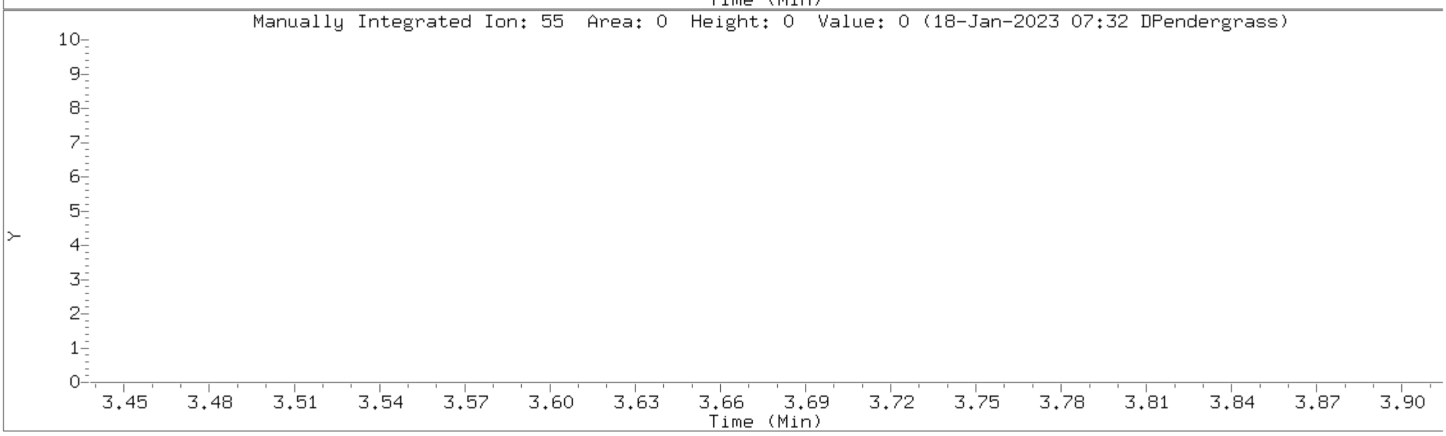
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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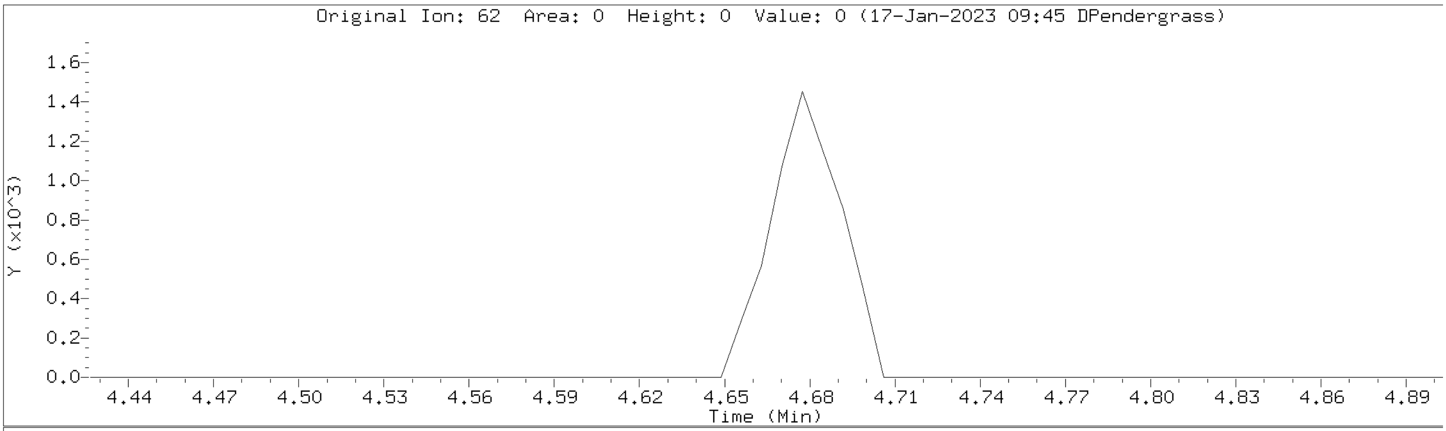
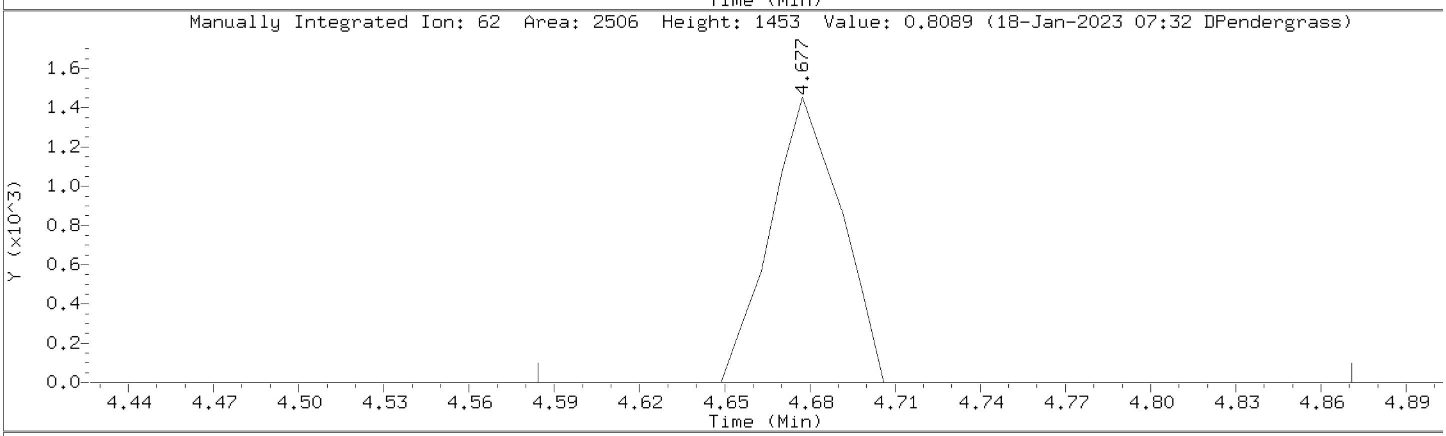
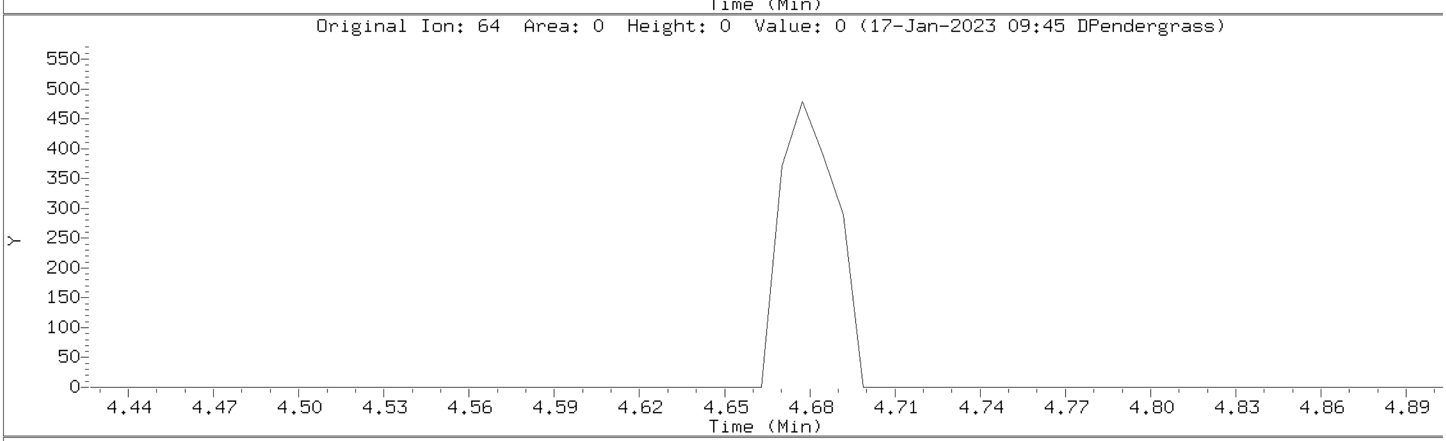
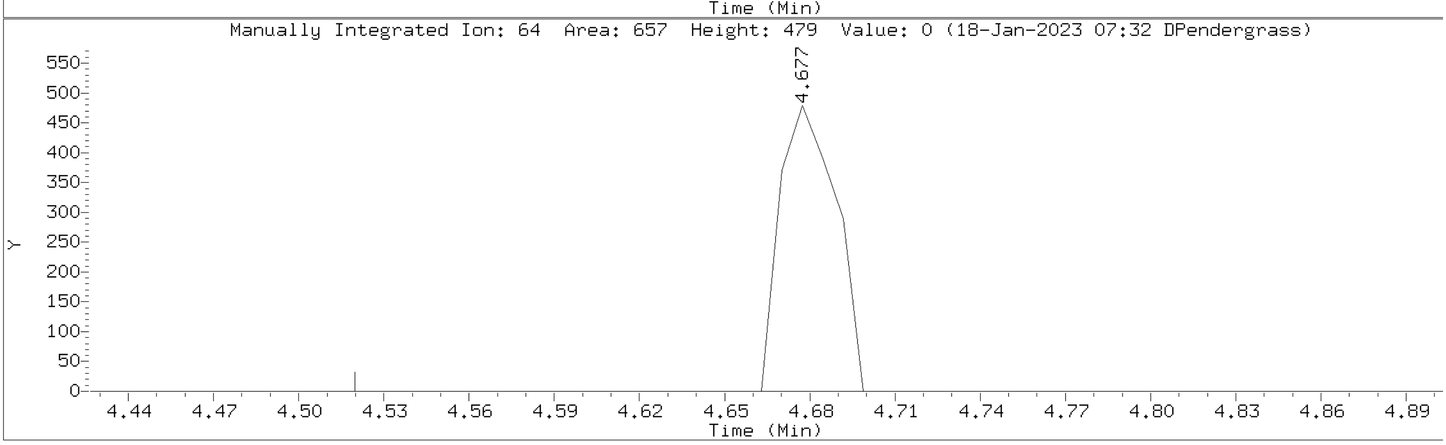
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloroethane   Review Code: NI
CAS Number: 107-06-2









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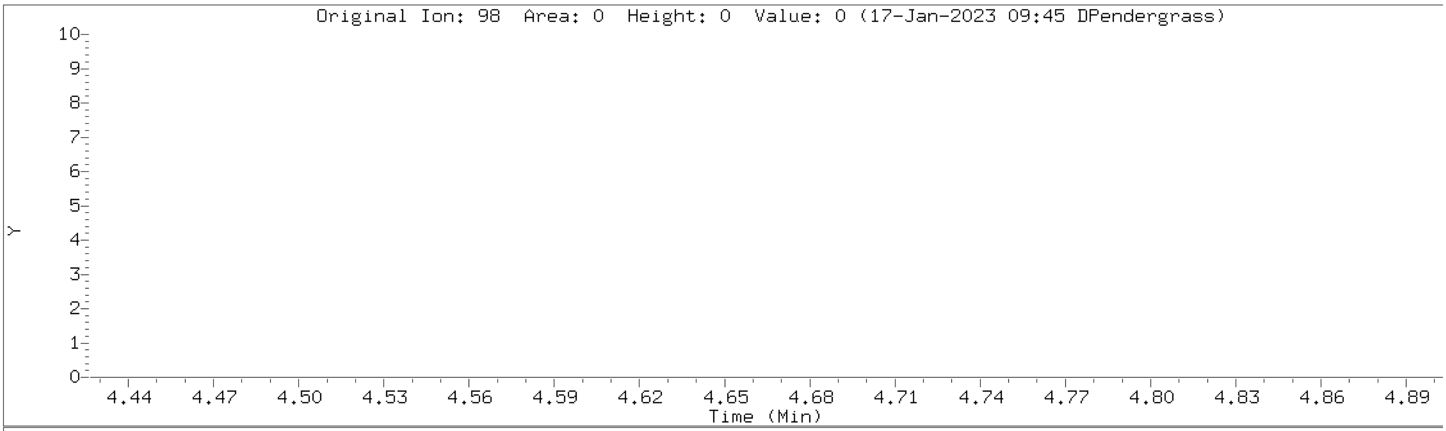
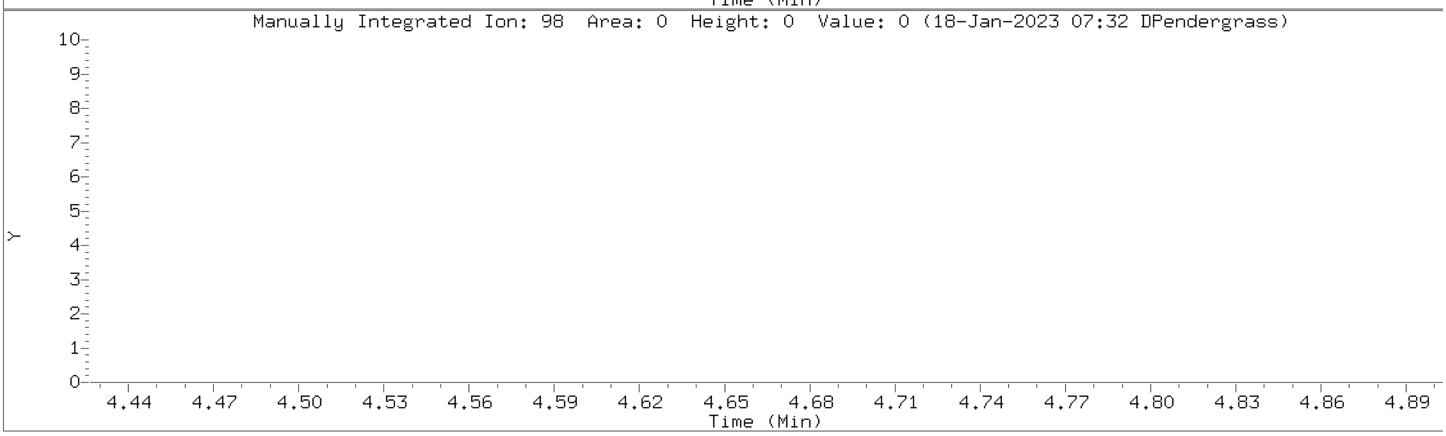
Lab Sample ID: 8260-CAL2





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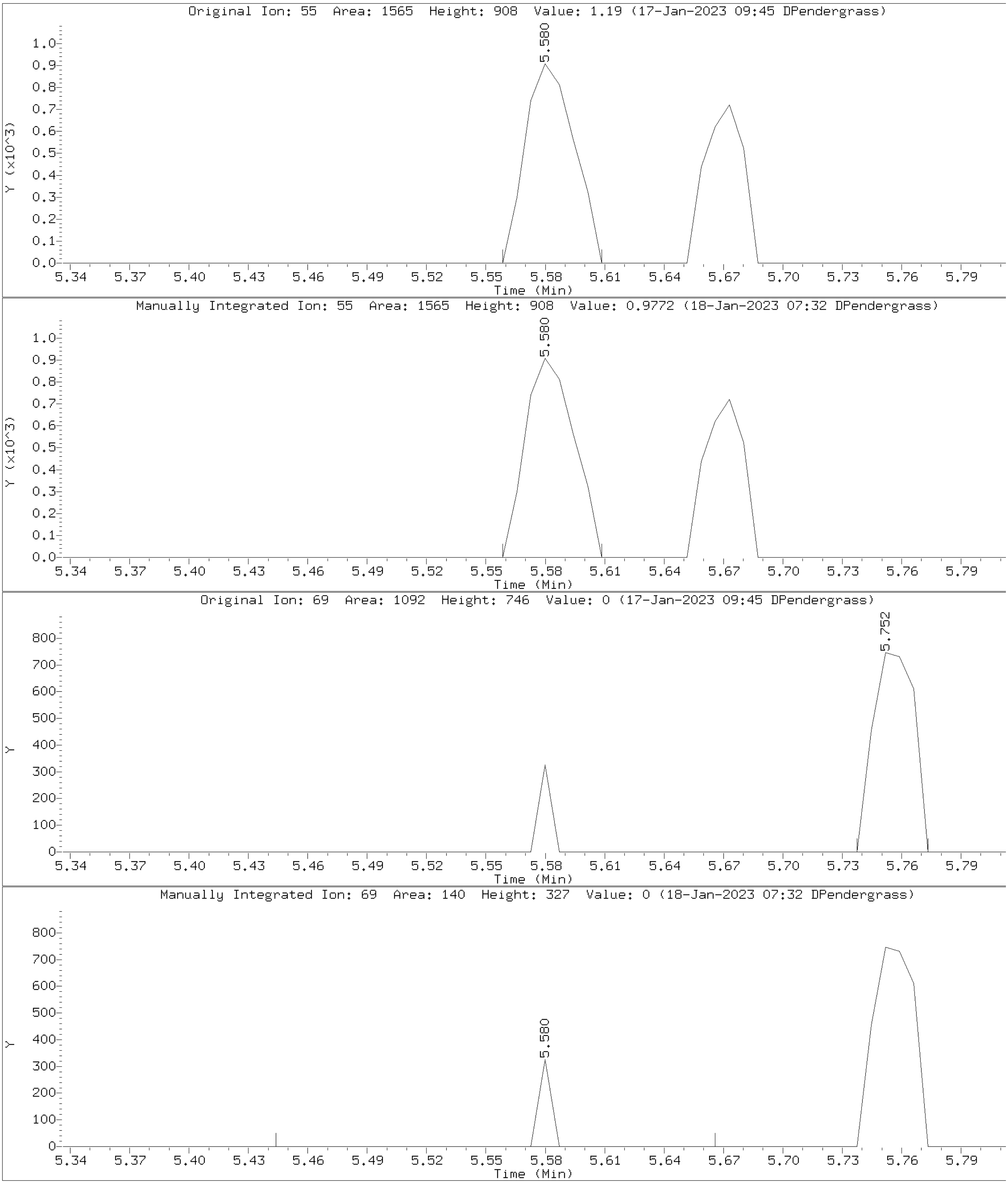
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Methylcyclohexane   Review Code: WP
CAS Number: 108-87-2



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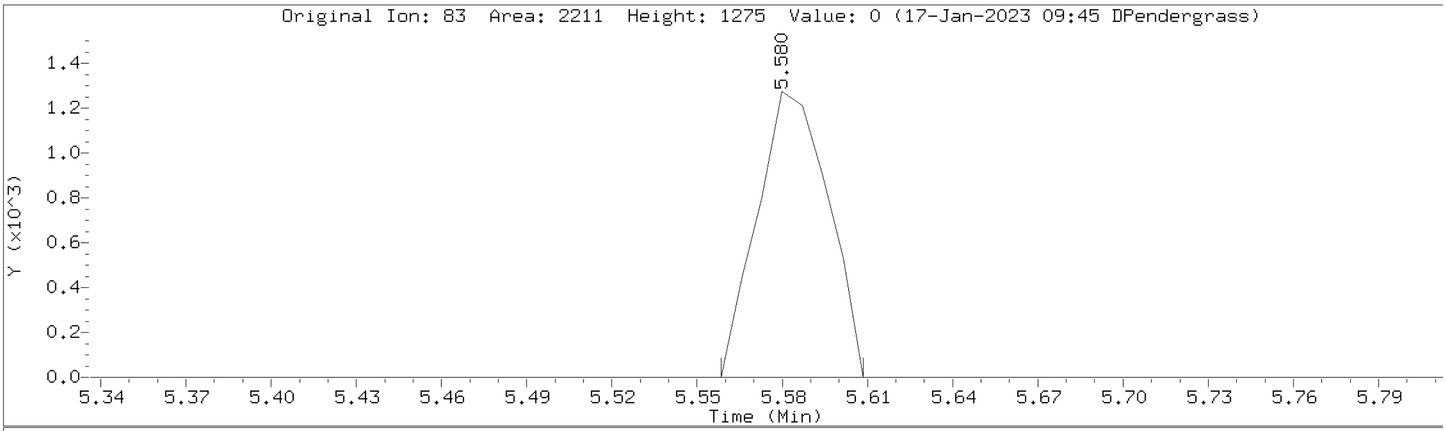
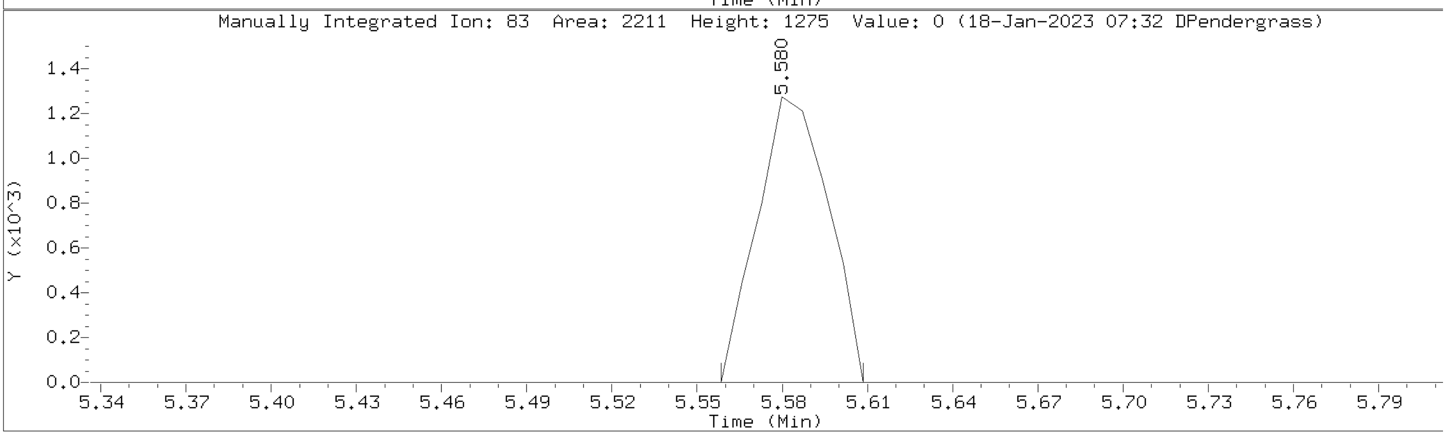
Lab Sample ID: 8260-CAL2





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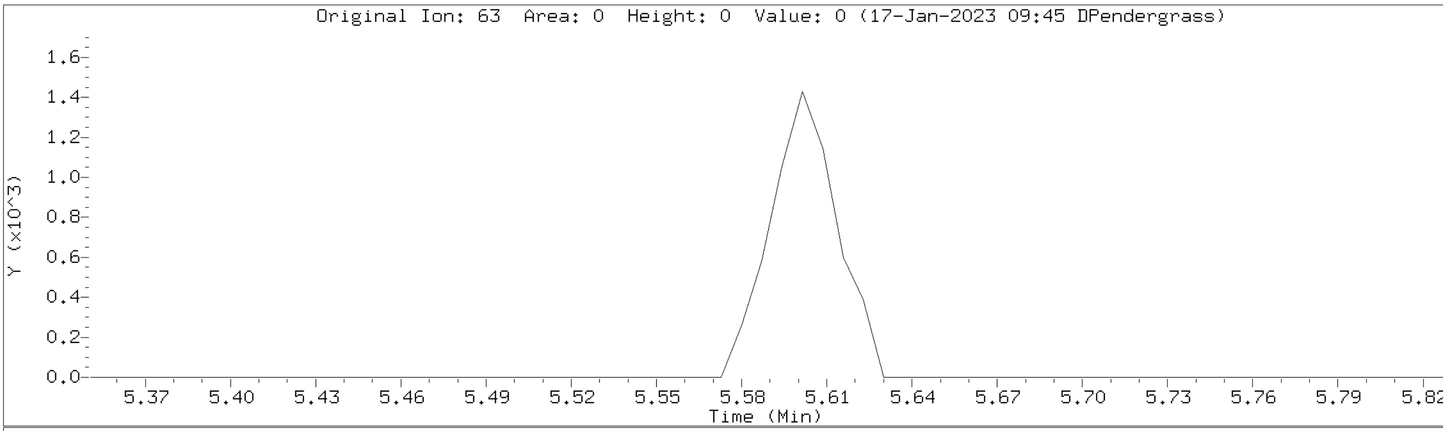
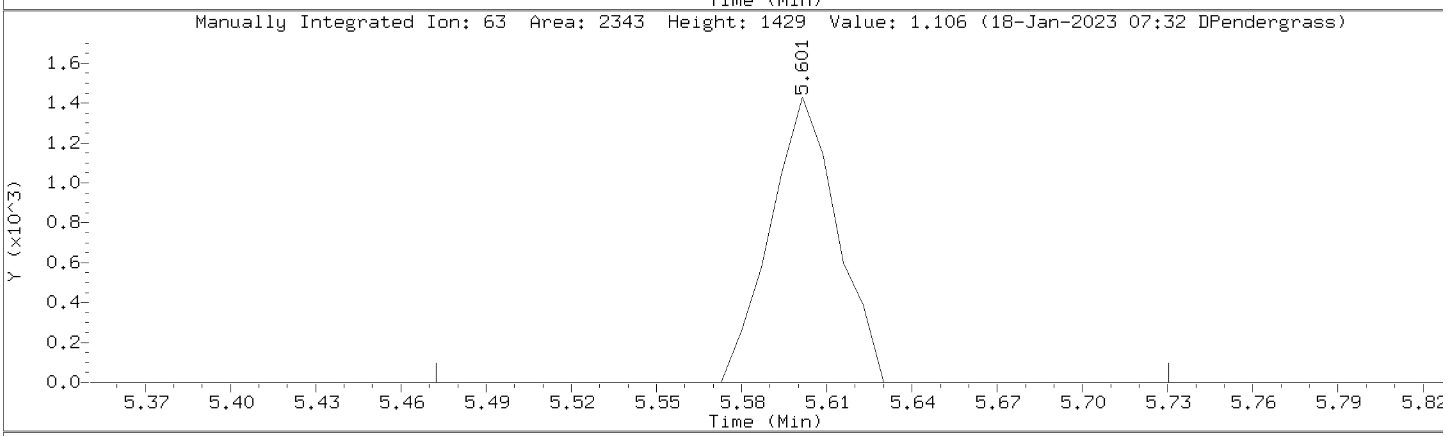
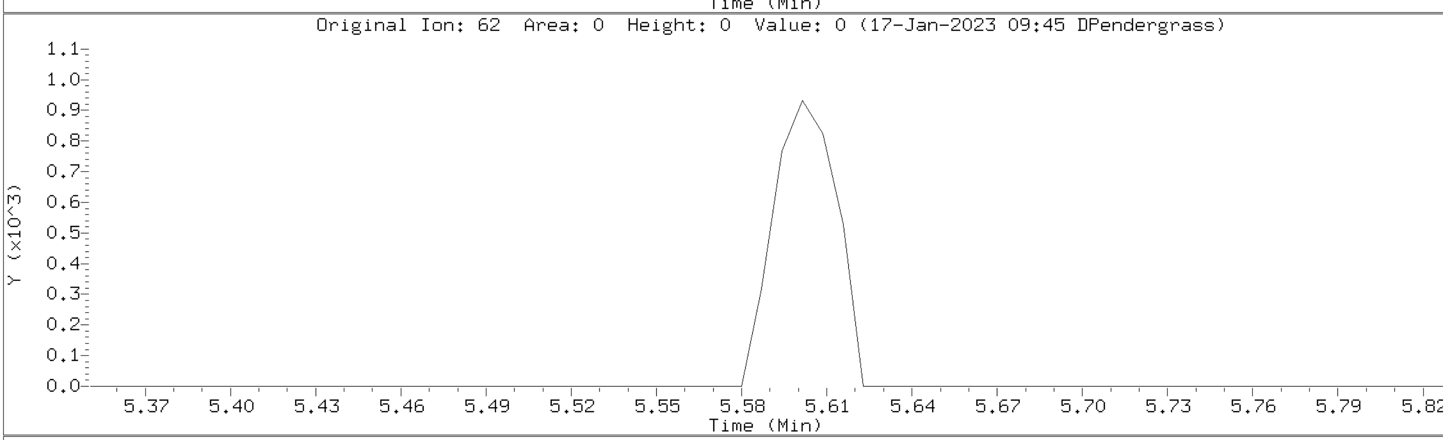
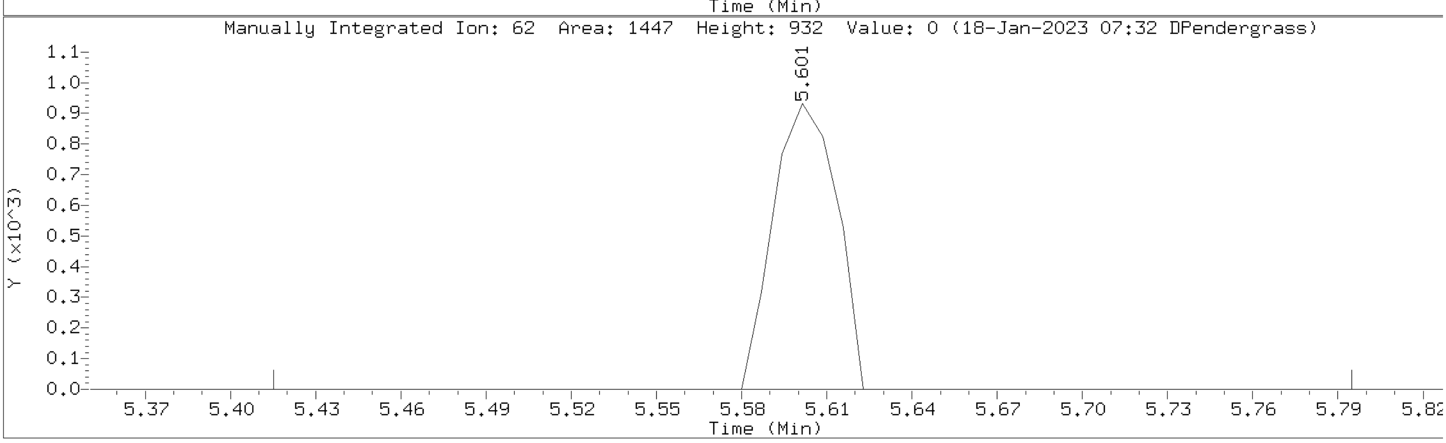
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5









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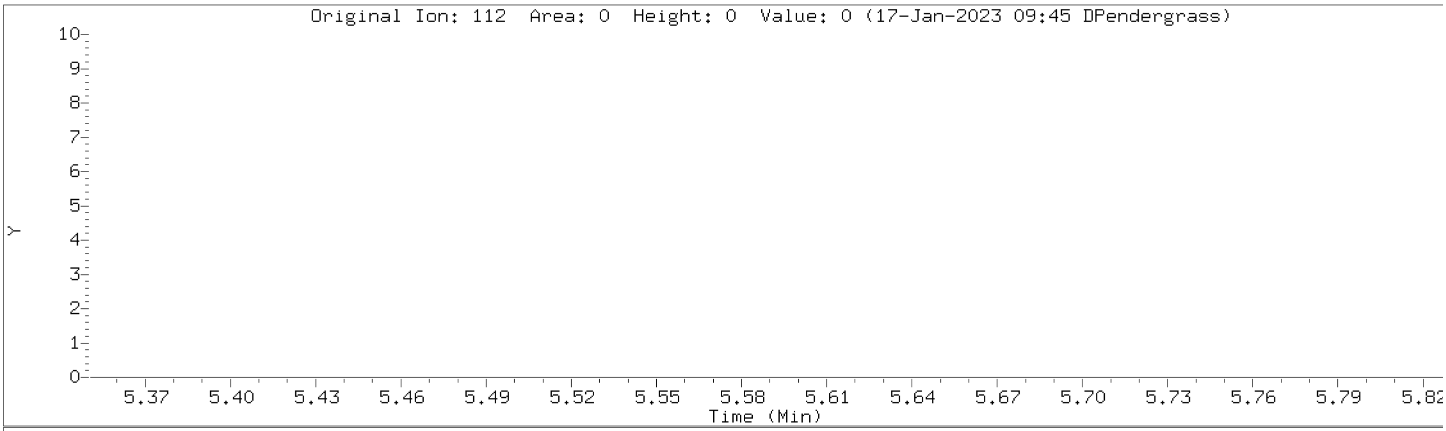
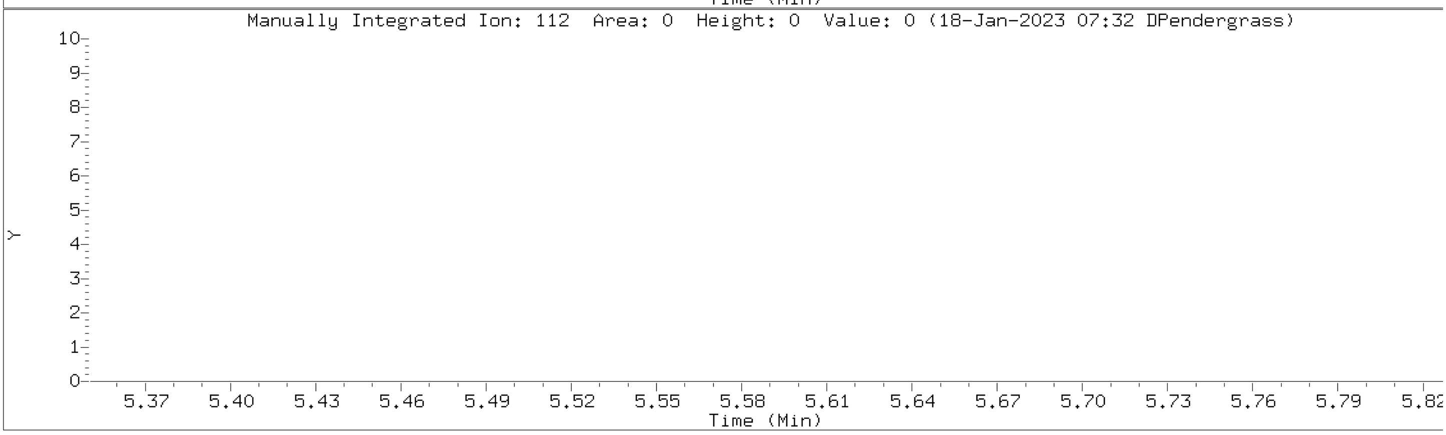
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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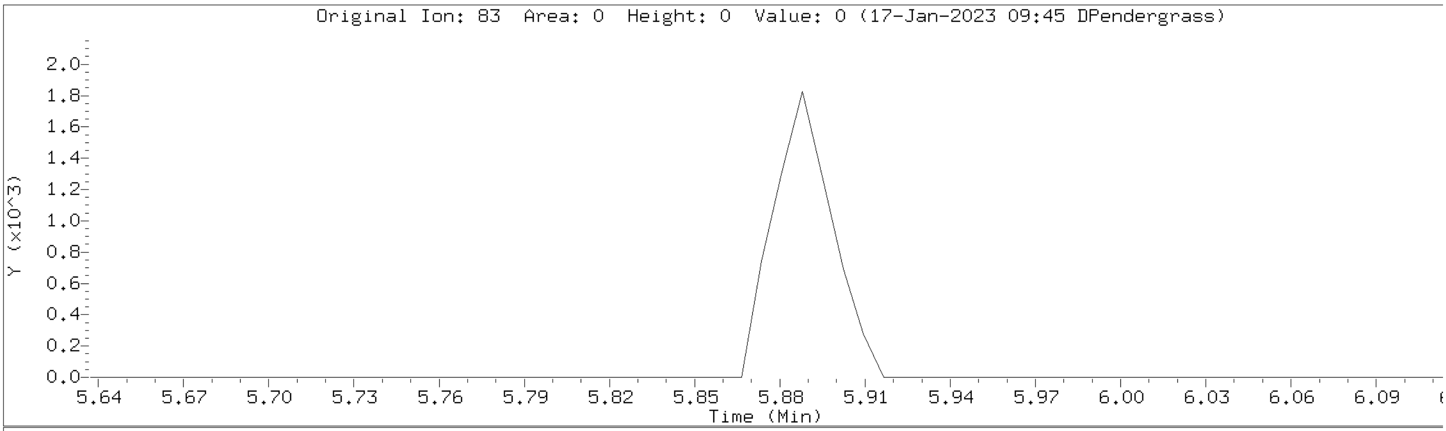
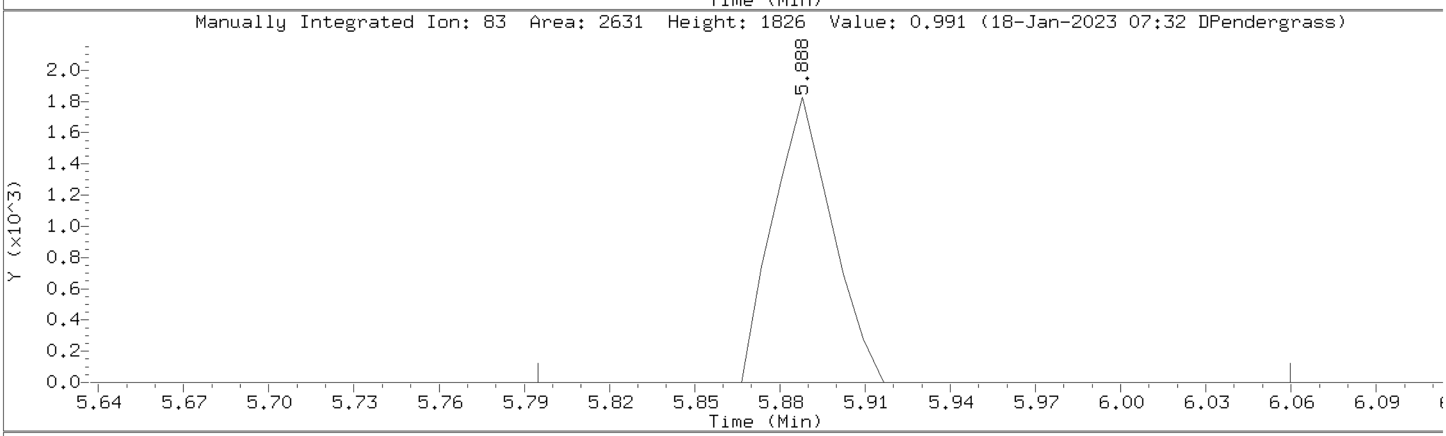
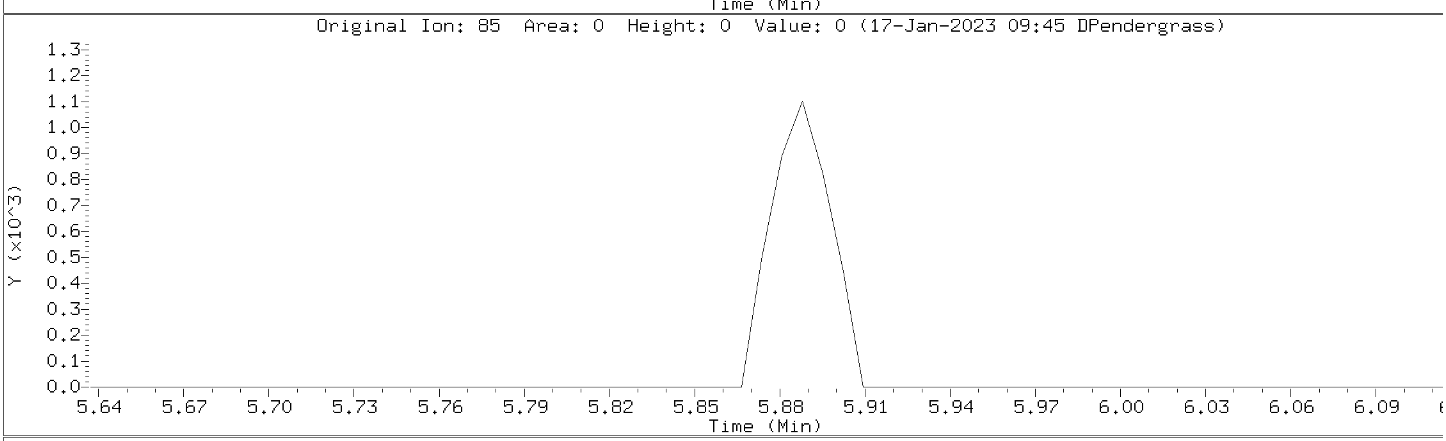
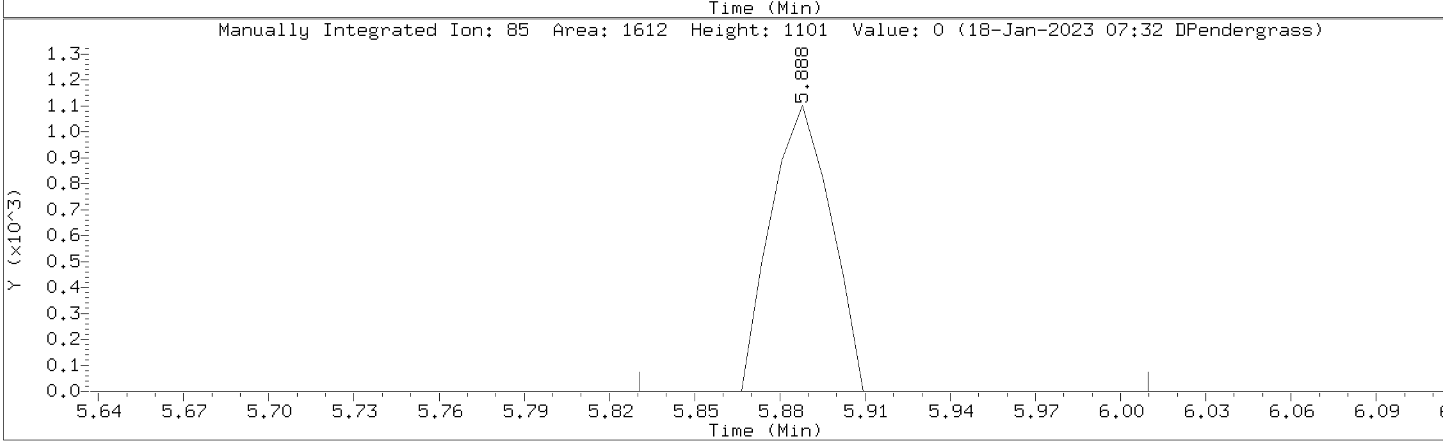
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4









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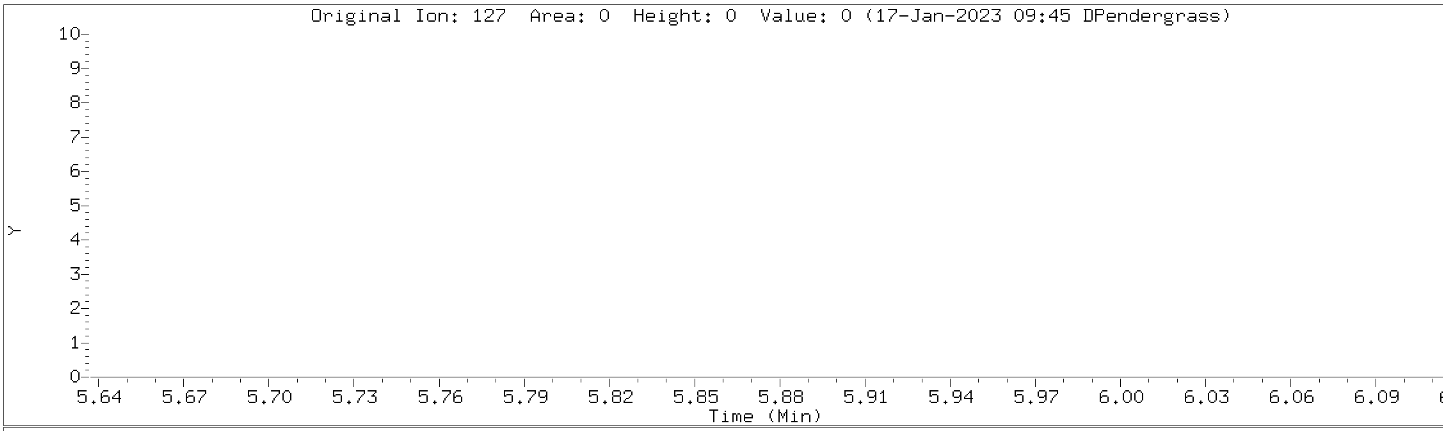
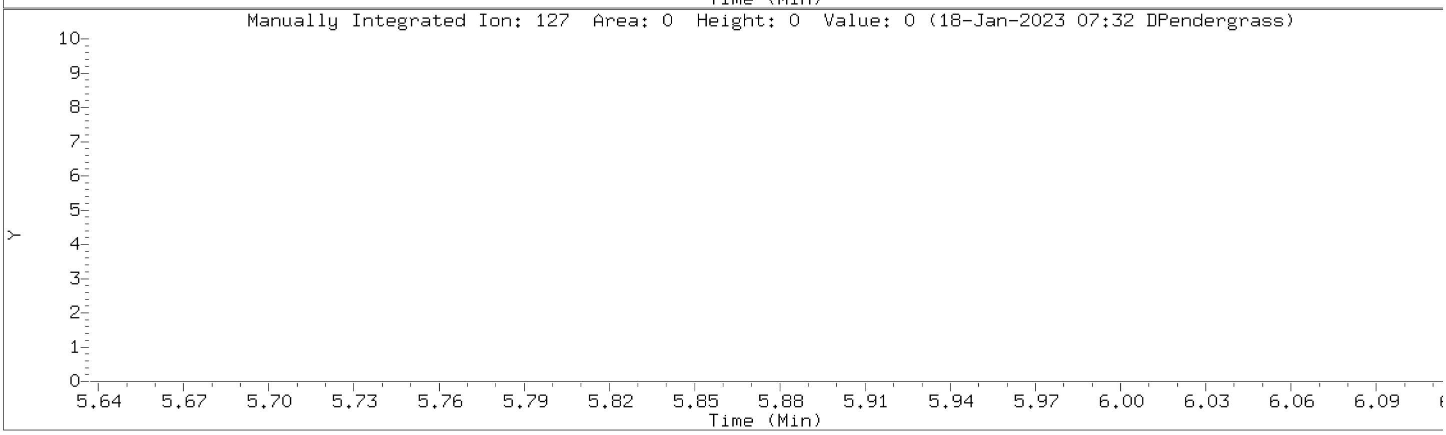
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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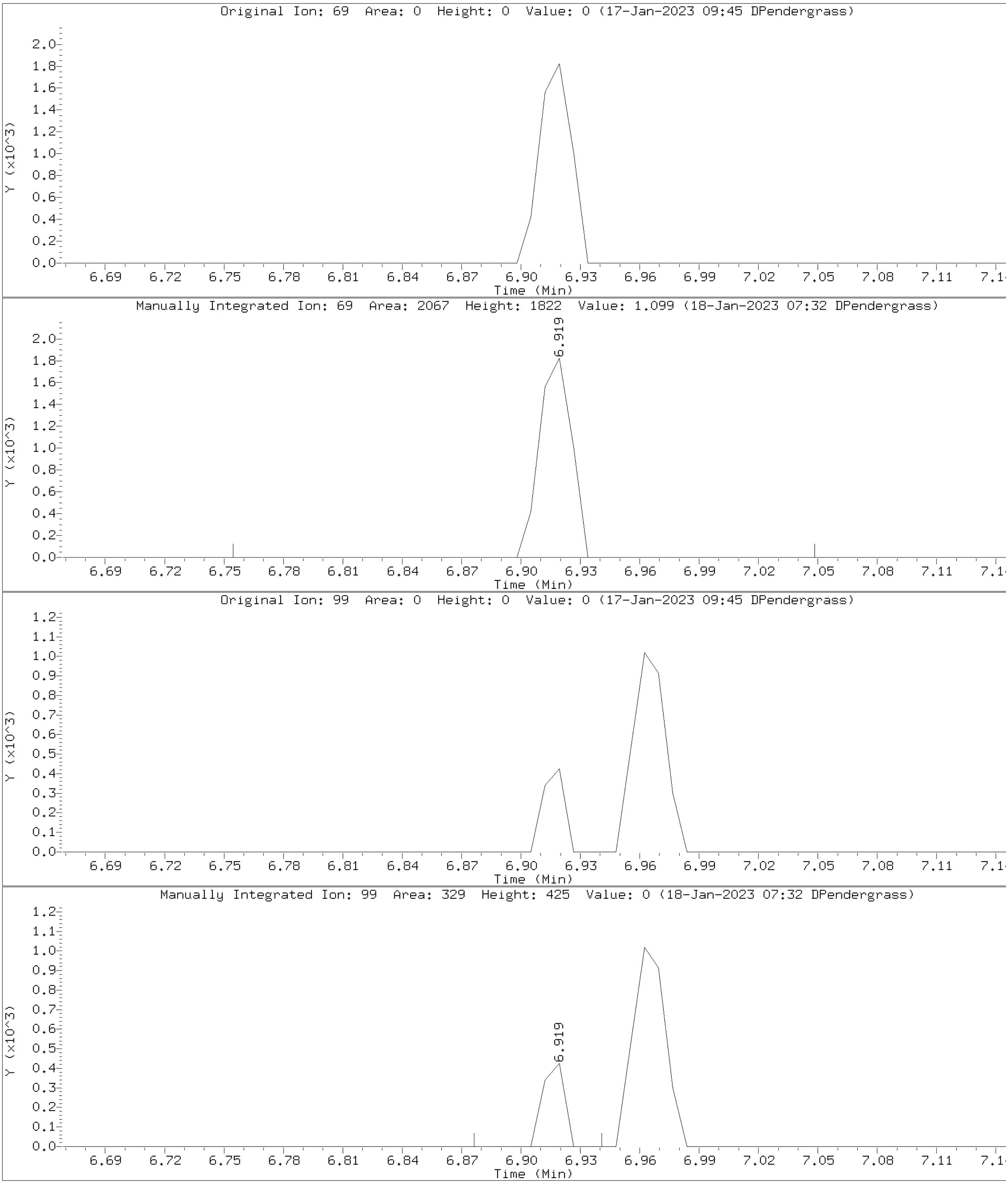
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



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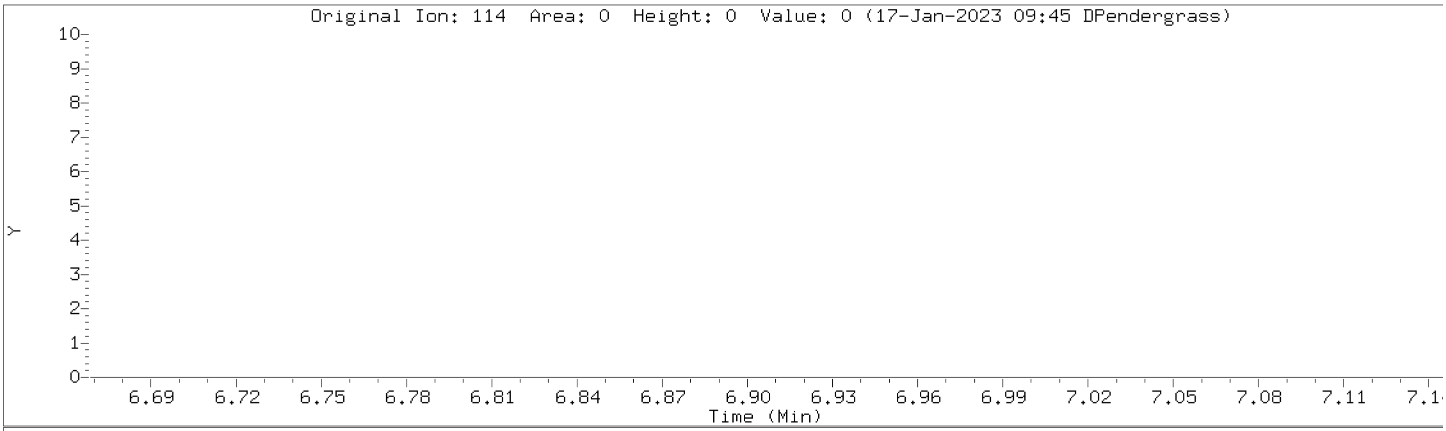
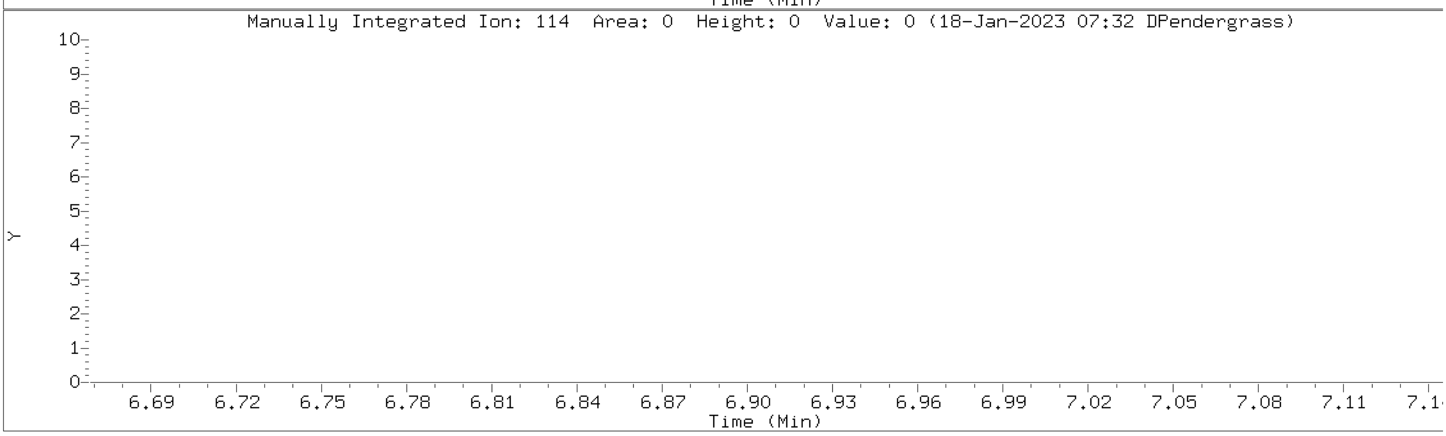
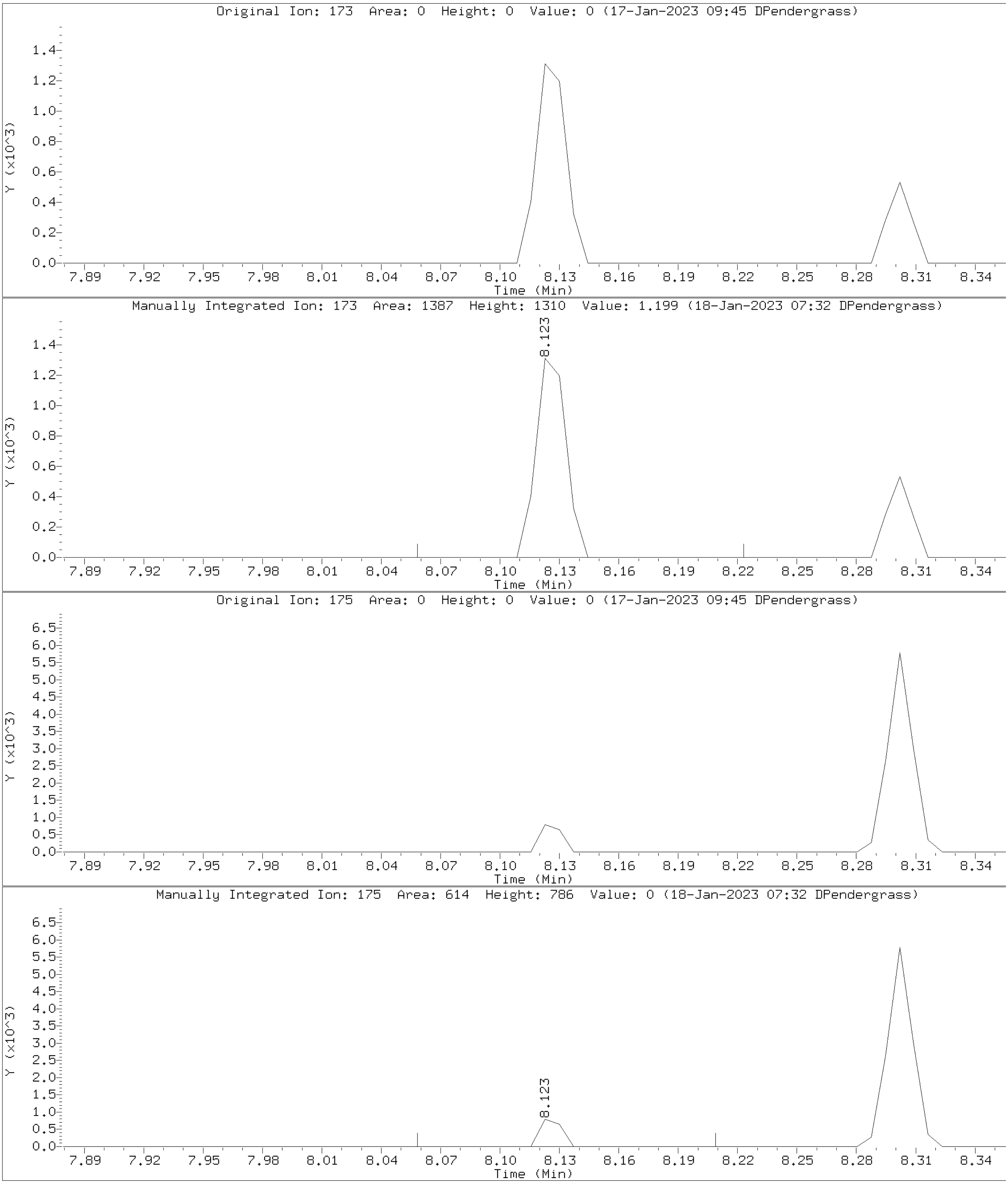
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
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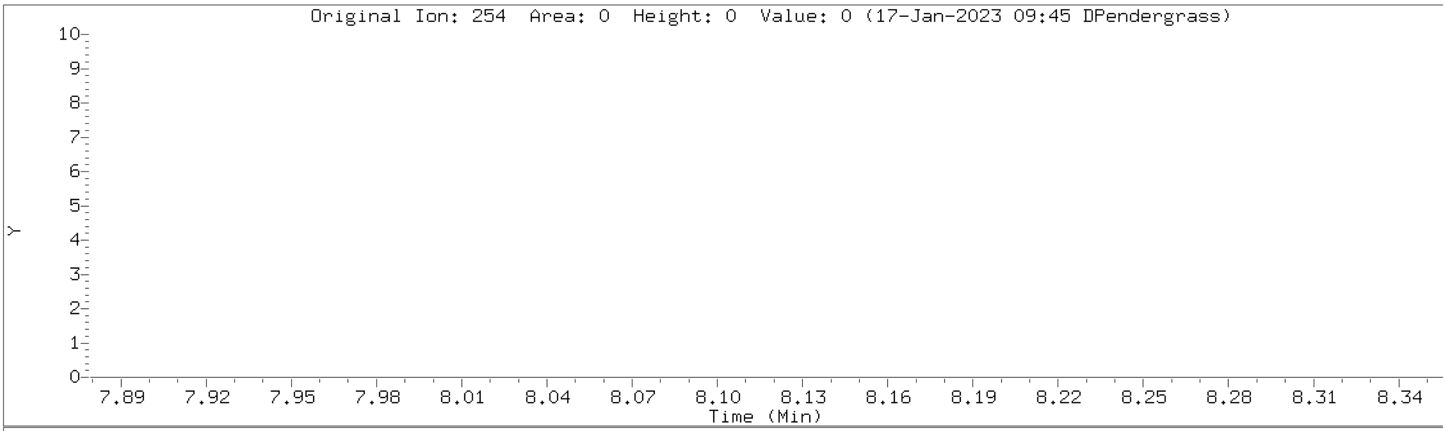
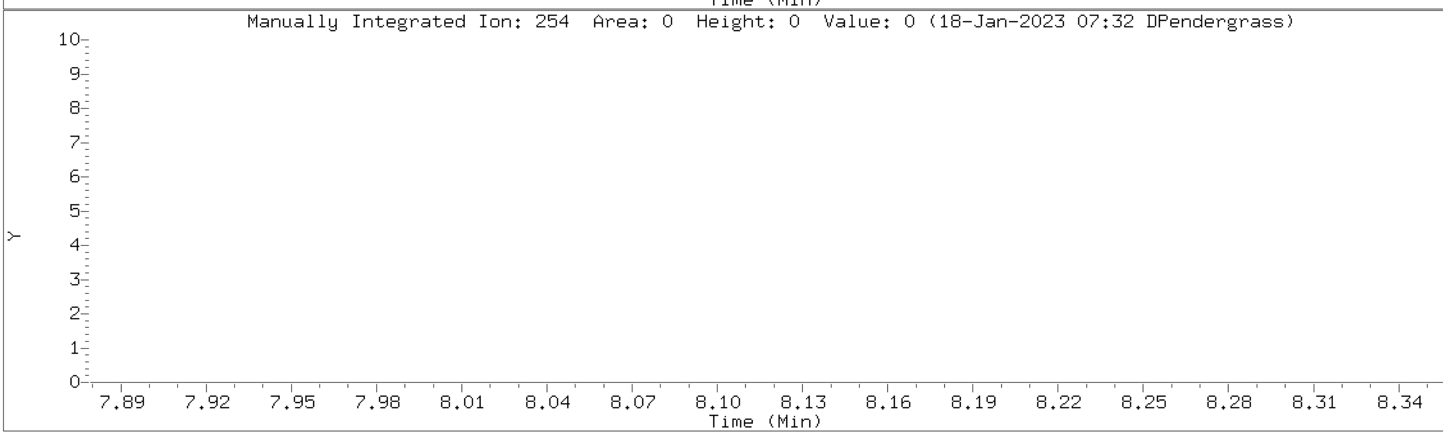
Lab Sample ID: 8260-CAL2





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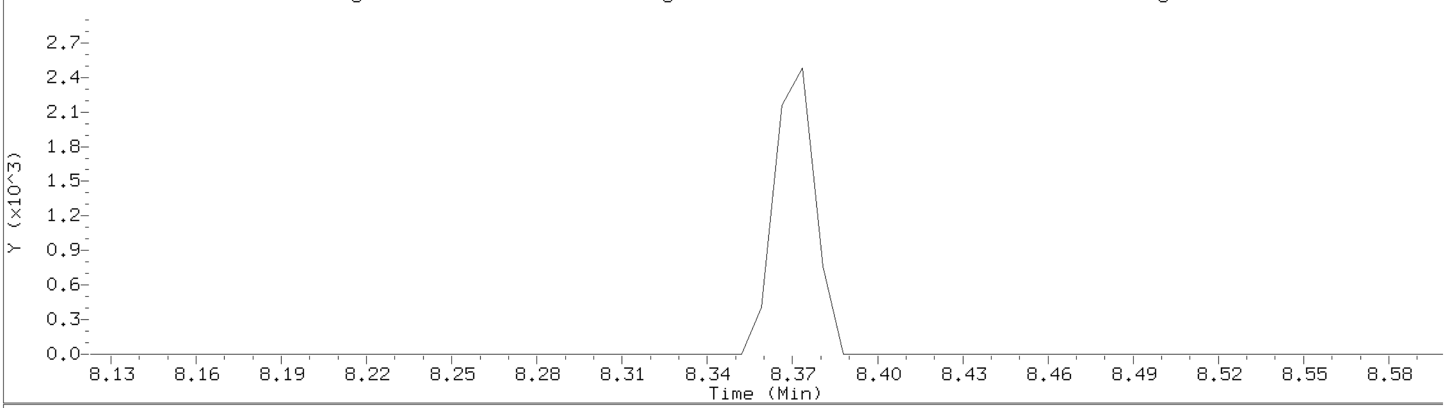
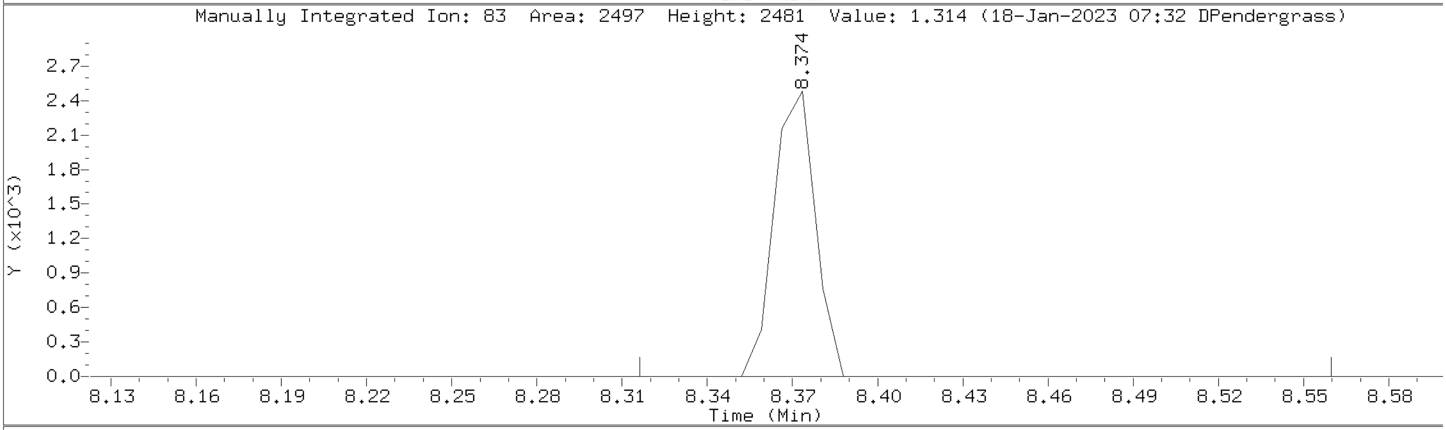
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5

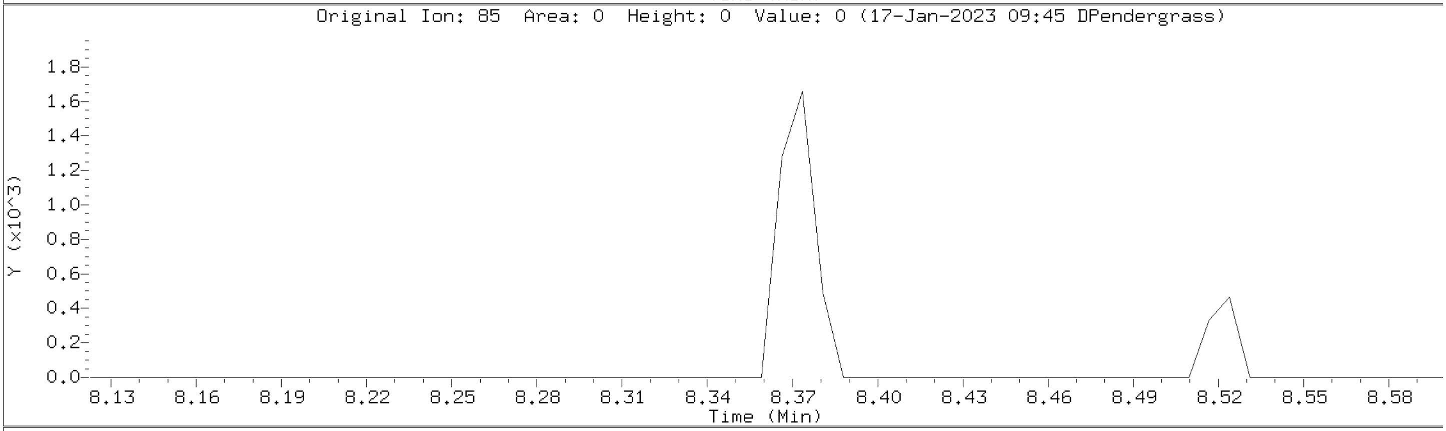
Original Ion: 83 Area: 0 Height: 0 Value: 0 (17-Jan-2023 09:45 DPendergrass)



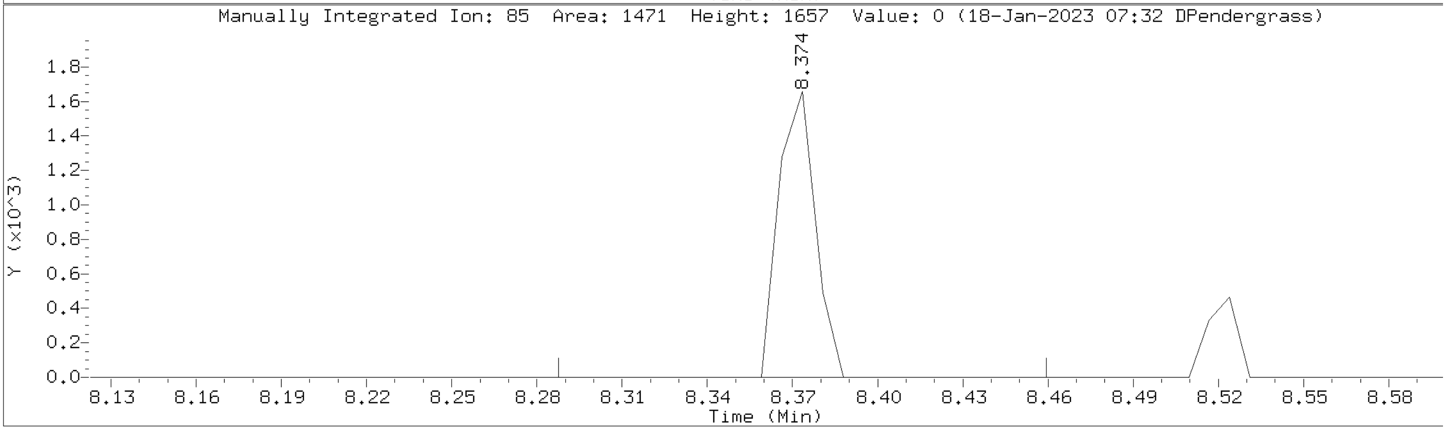
Manually Integrated Ion: 83 Area: 2497 Height: 2481 Value: 1.314 (18-Jan-2023 07:32 DPendergrass)



Original Ion: 85 Area: 0 Height: 0 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 85 Area: 1471 Height: 1657 Value: 0 (18-Jan-2023 07:32 DPendergrass)



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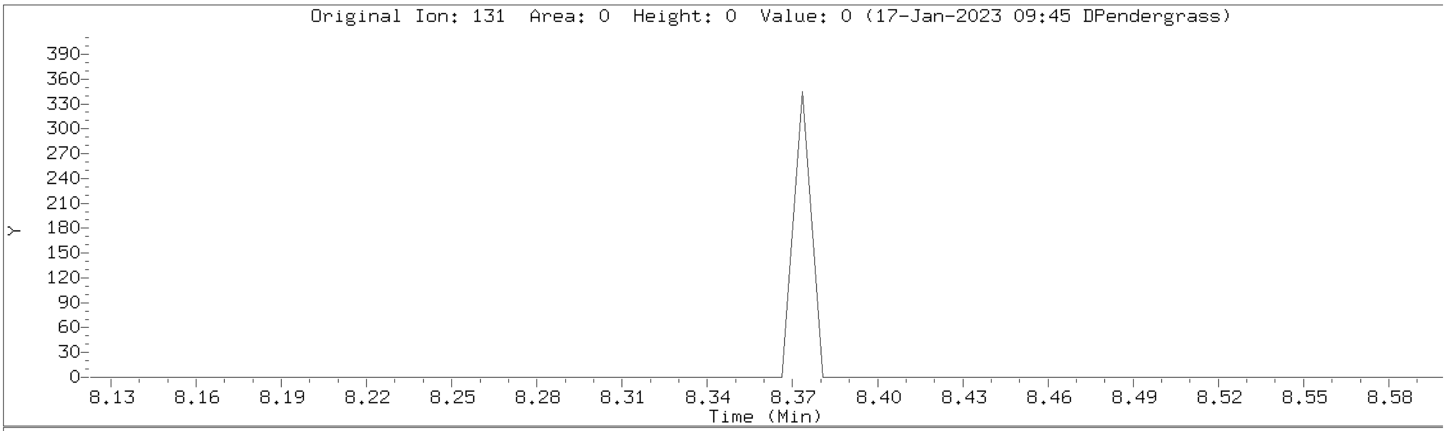
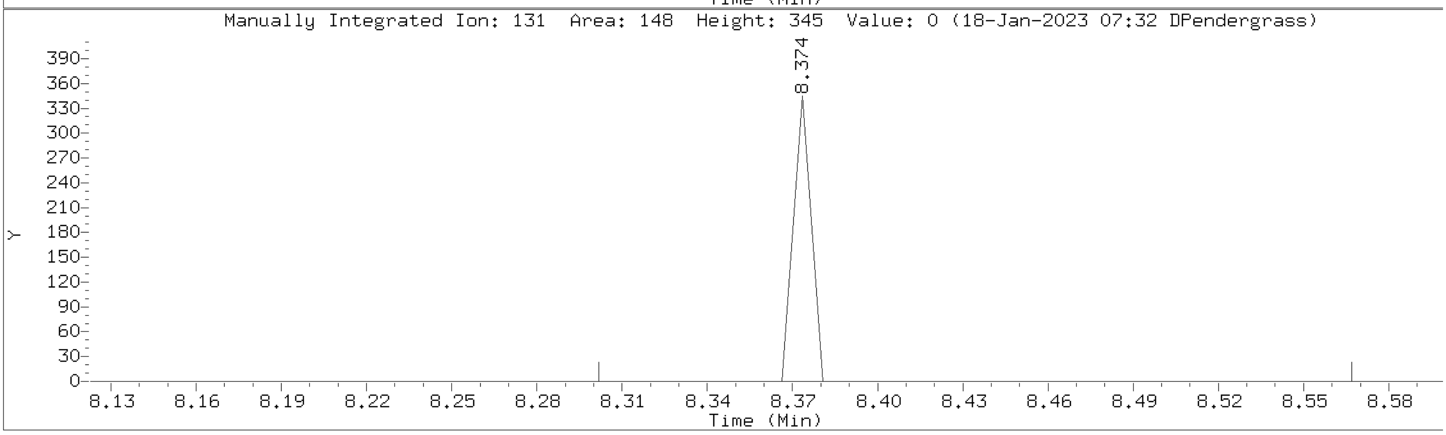
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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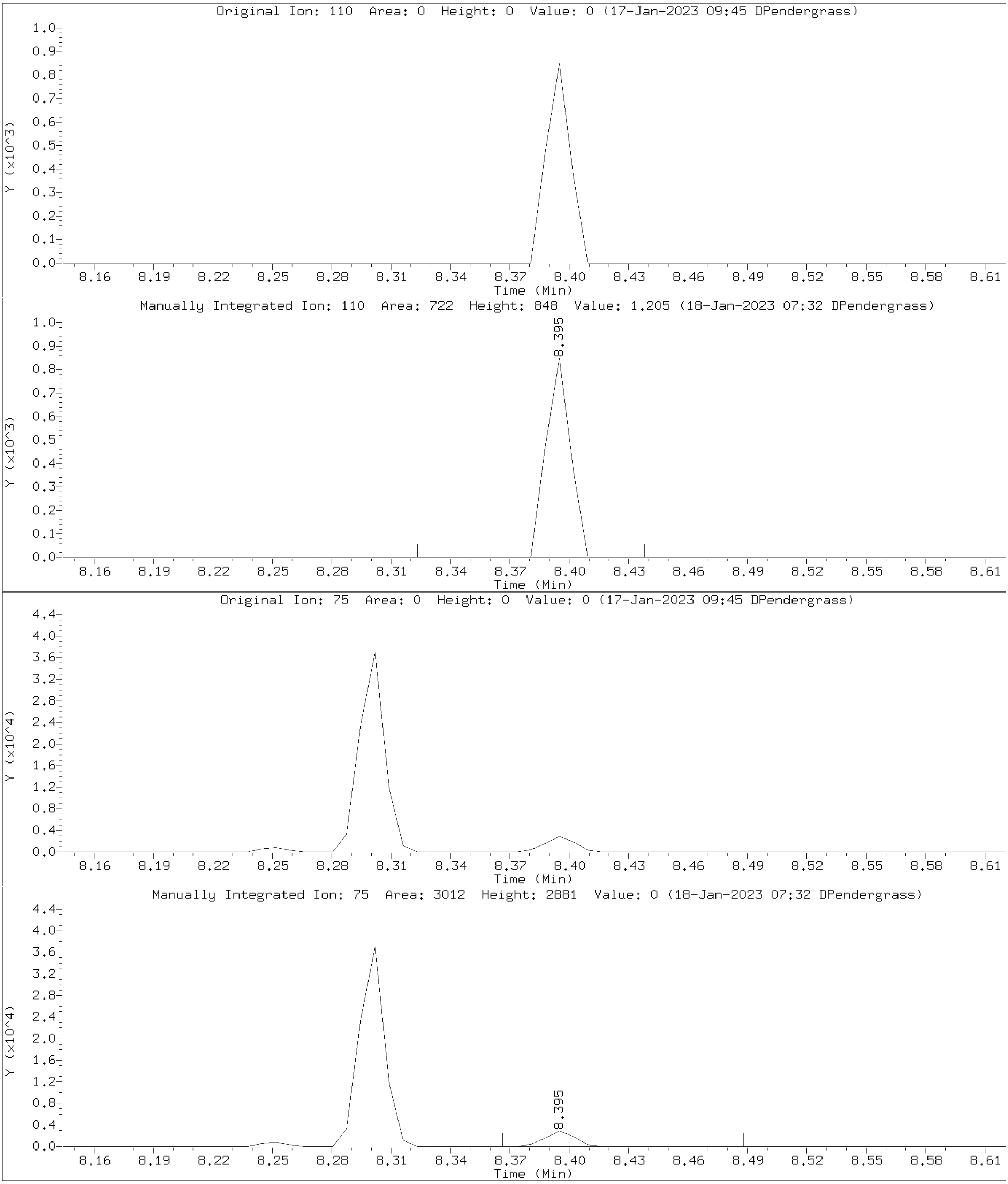
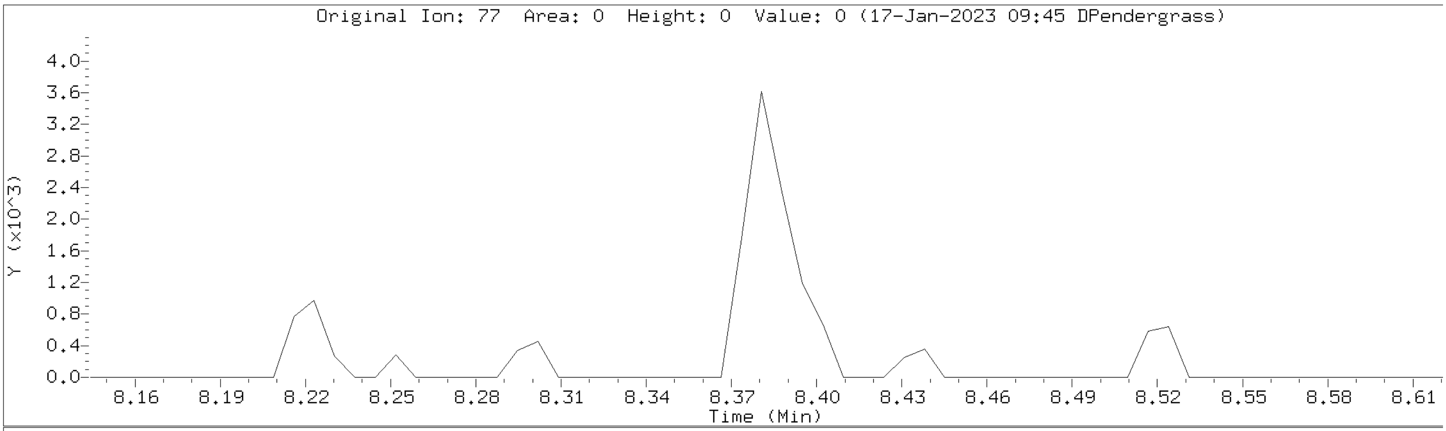
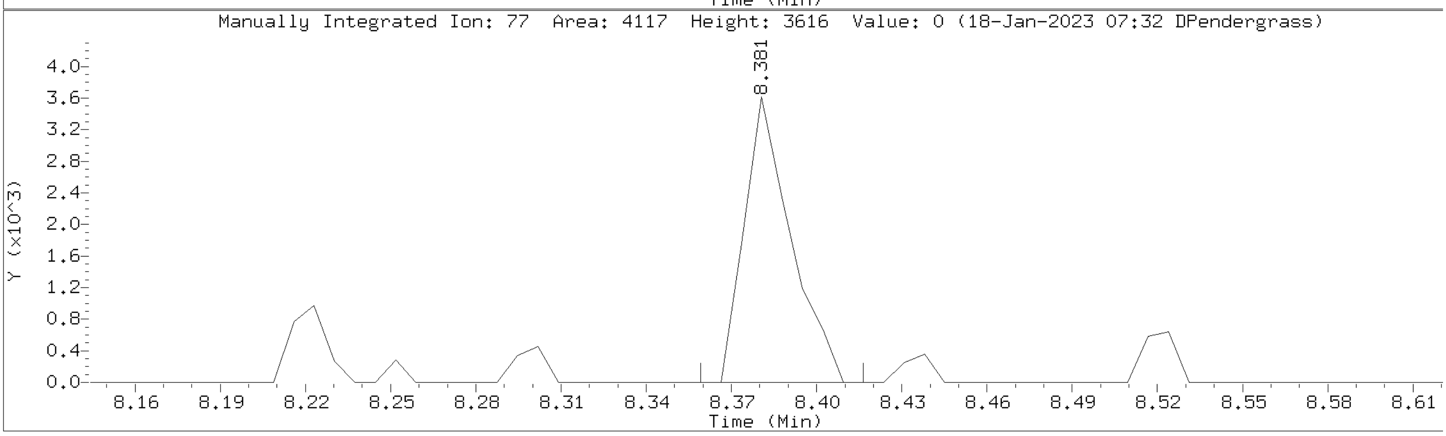
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,2,3-Trichloropropane   Review Code: NI
CAS Number: 96-18-4



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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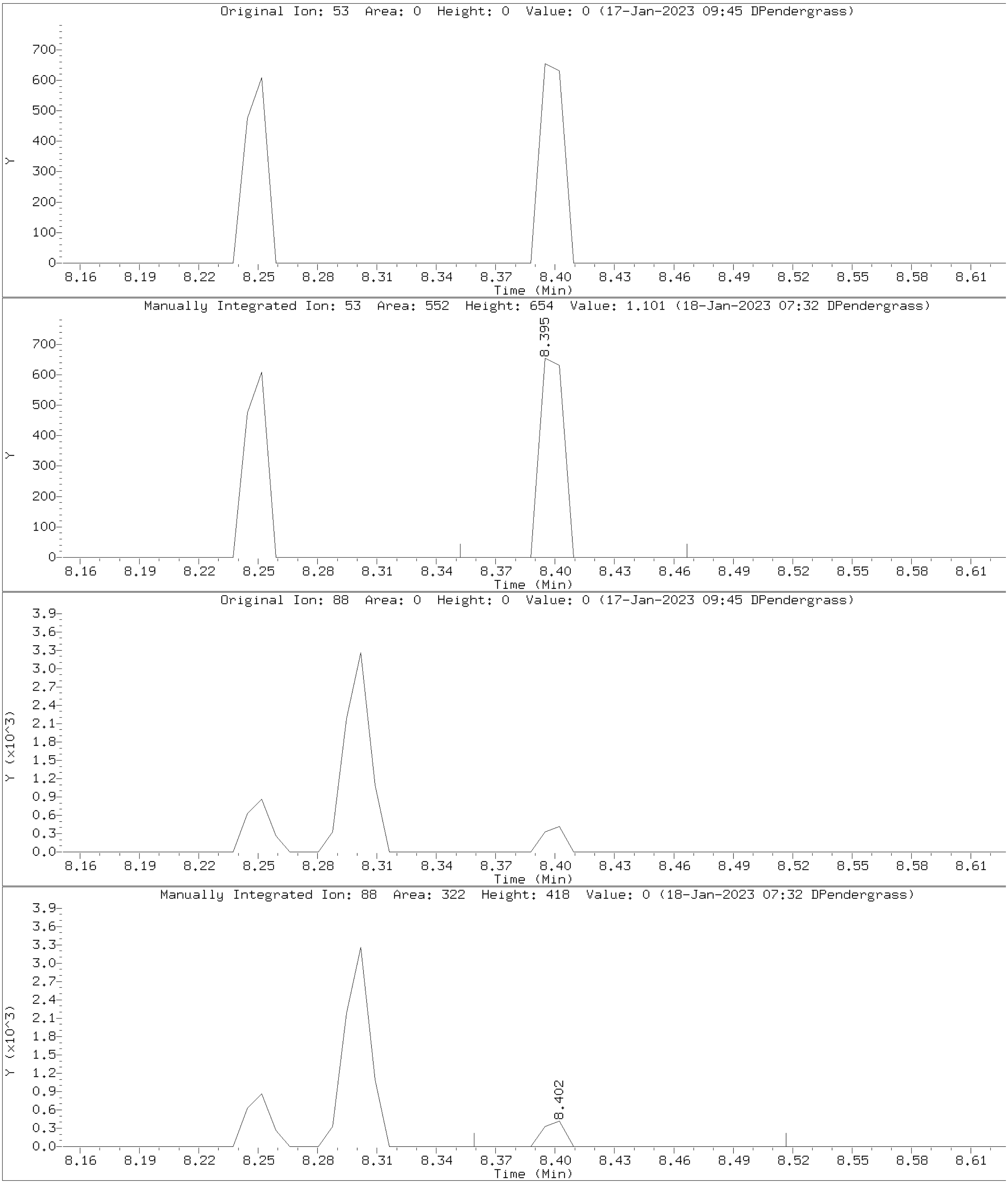
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,4-Dichloro-2-butene   Review Code: NI
CAS Number:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
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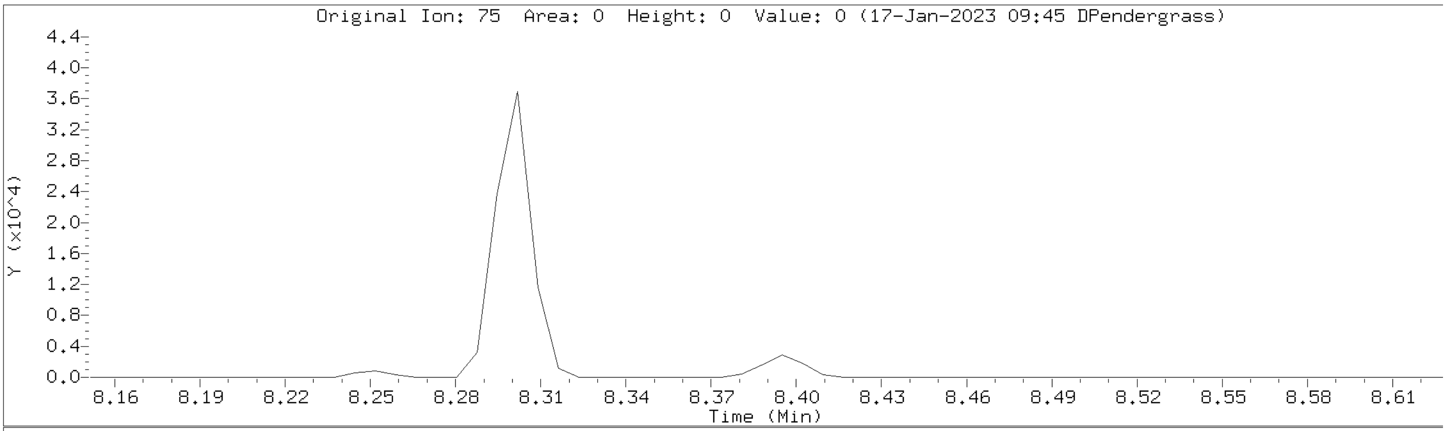
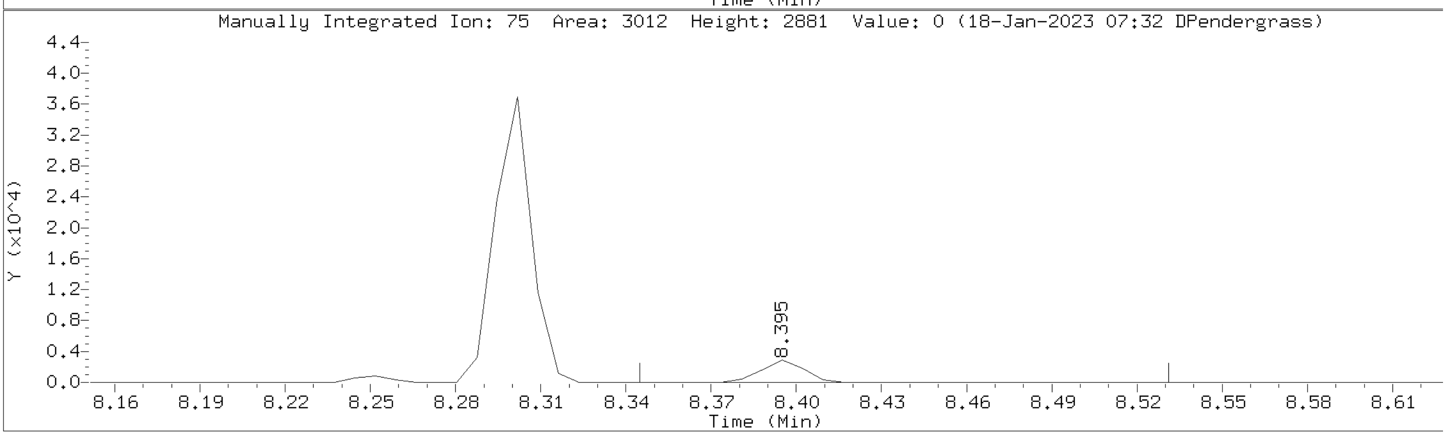
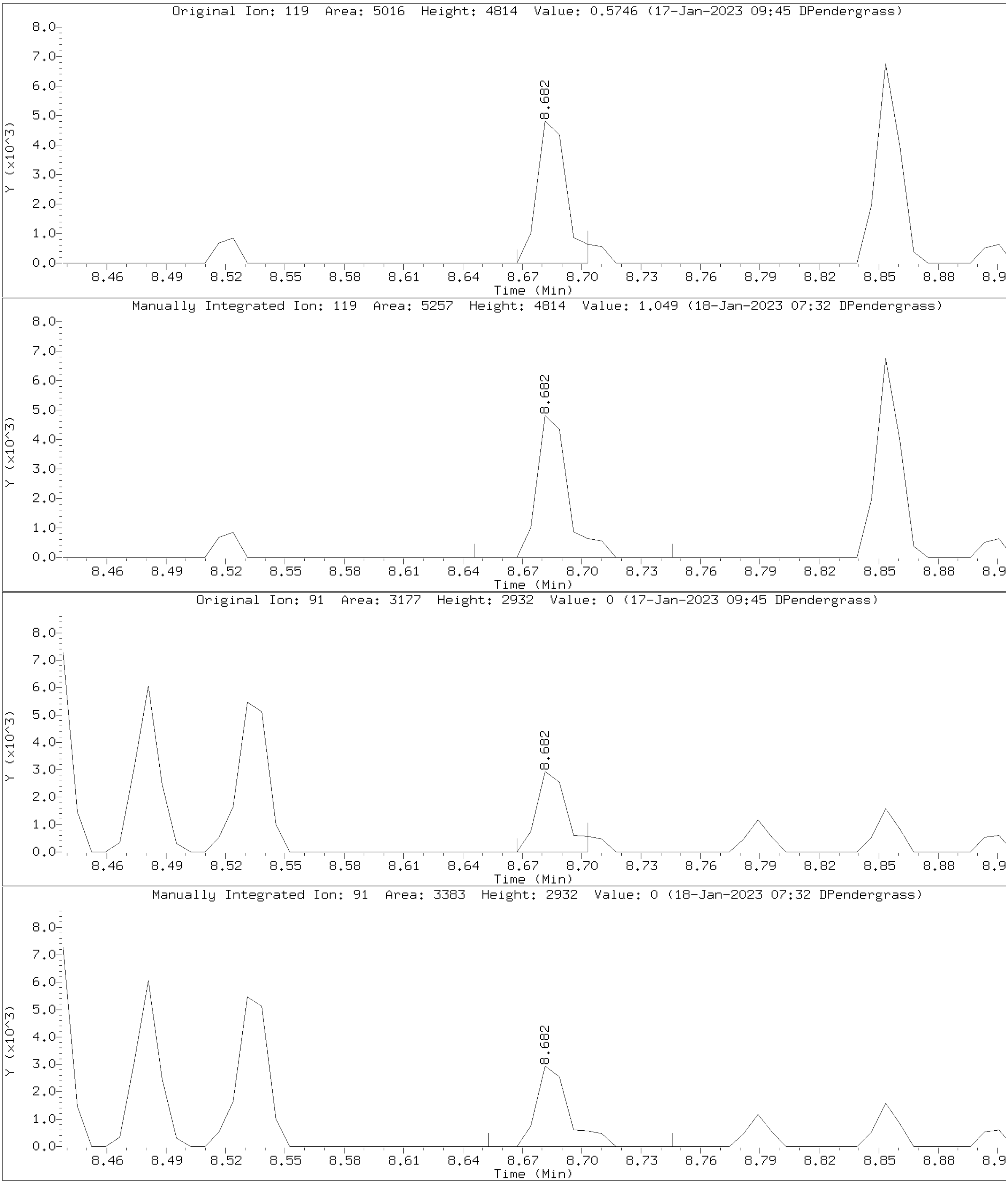
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





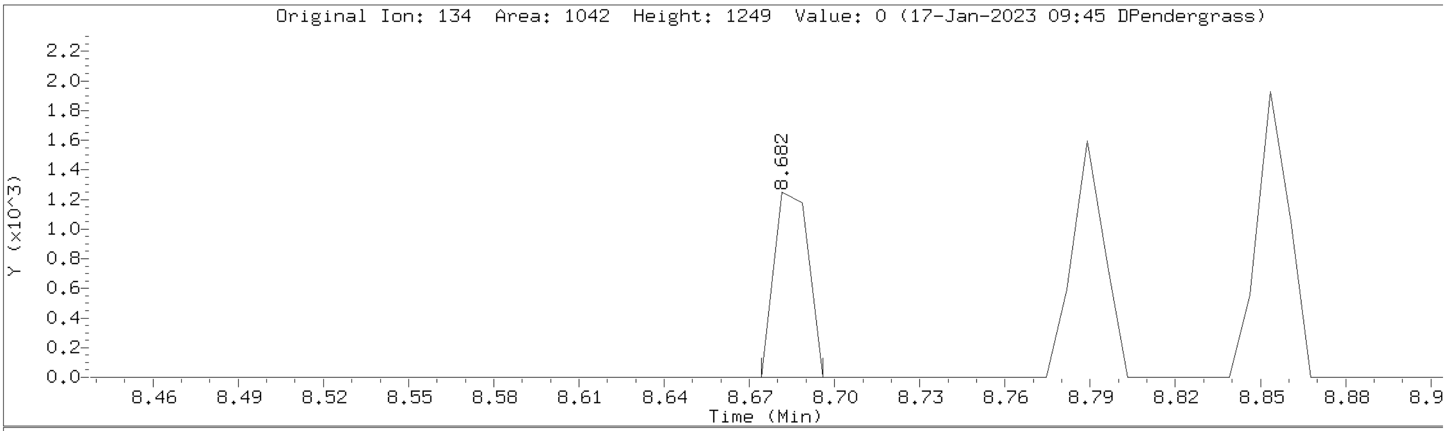
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butylbenzene   Review Code: GT
CAS Number: 98-06-6

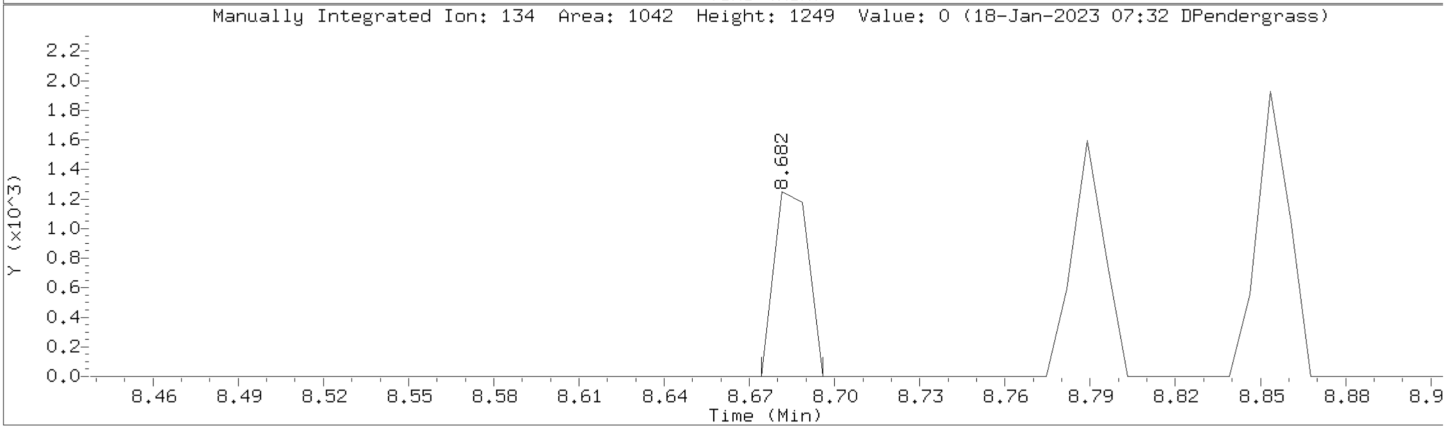


Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Original Ion: 134 Area: 1042 Height: 1249 Value: 0 (17-Jan-2023 09:45 DPendergrass)

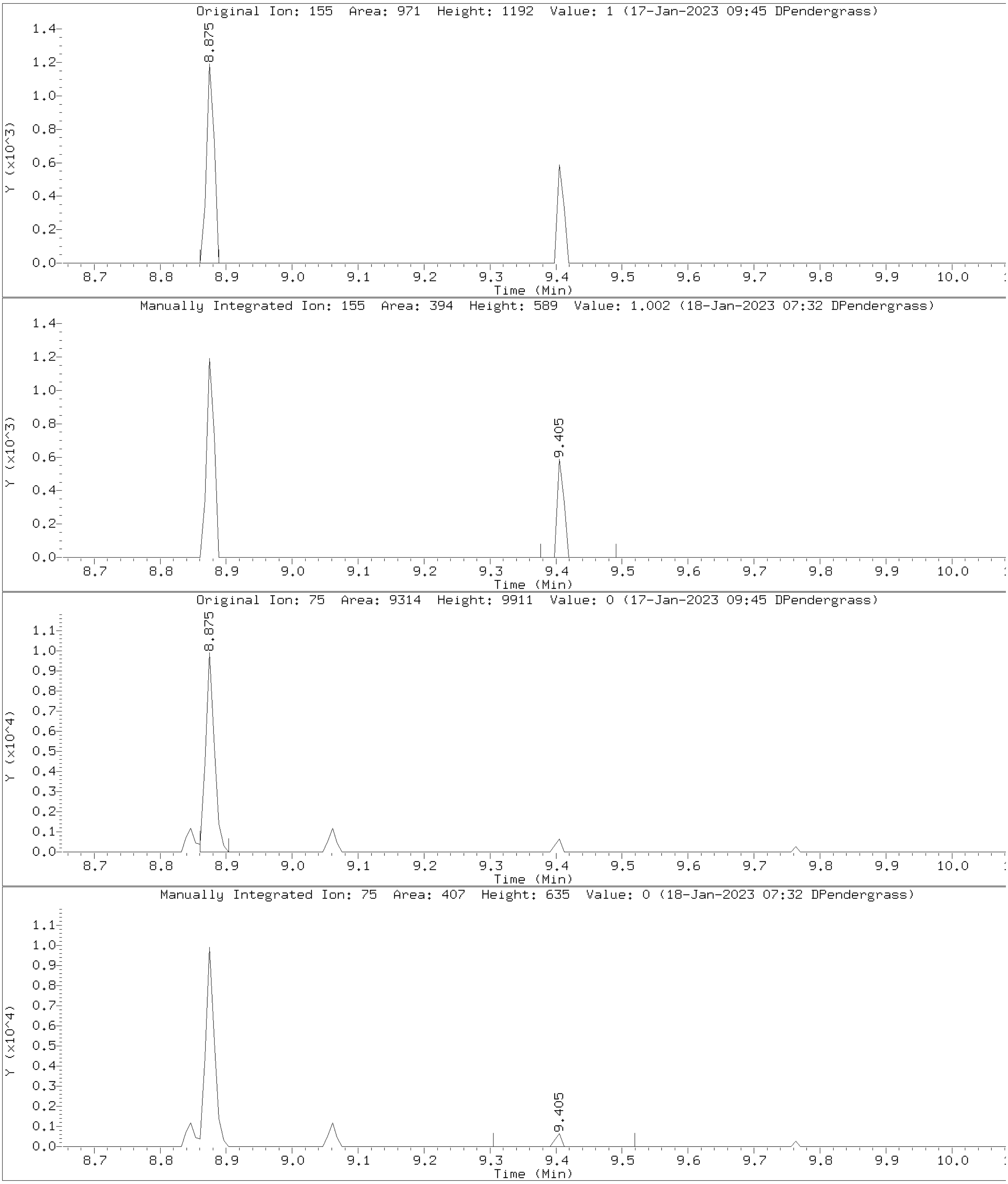


Manually Integrated Ion: 134 Area: 1042 Height: 1249 Value: 0 (18-Jan-2023 07:32 DPendergrass)



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
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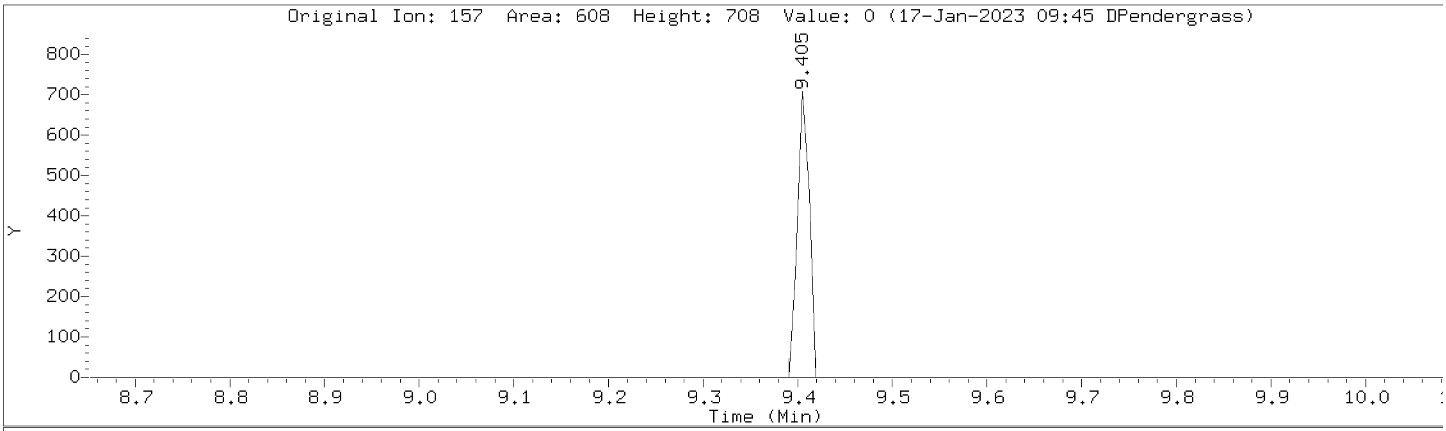
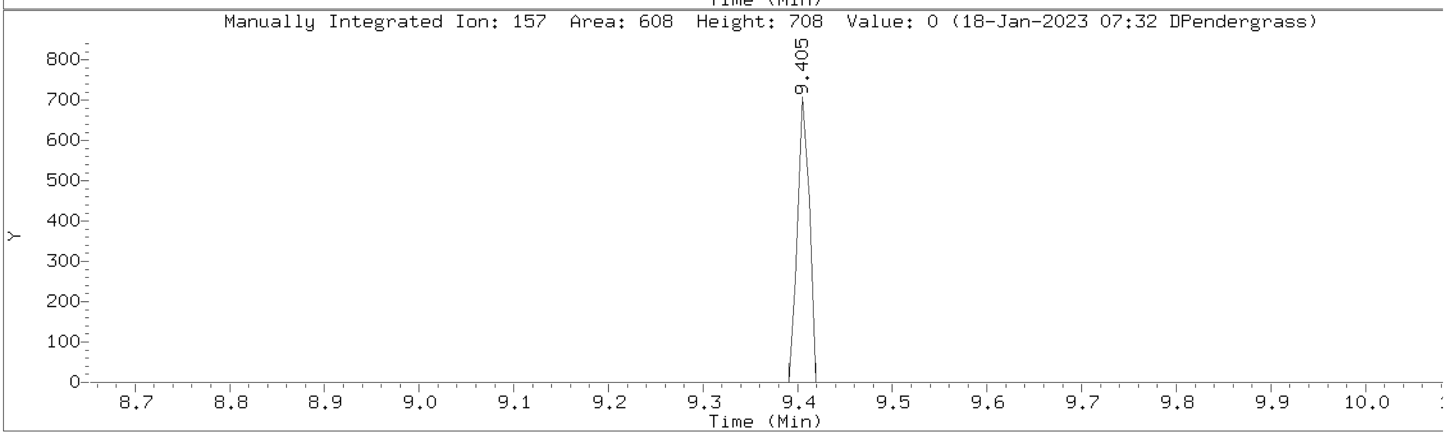
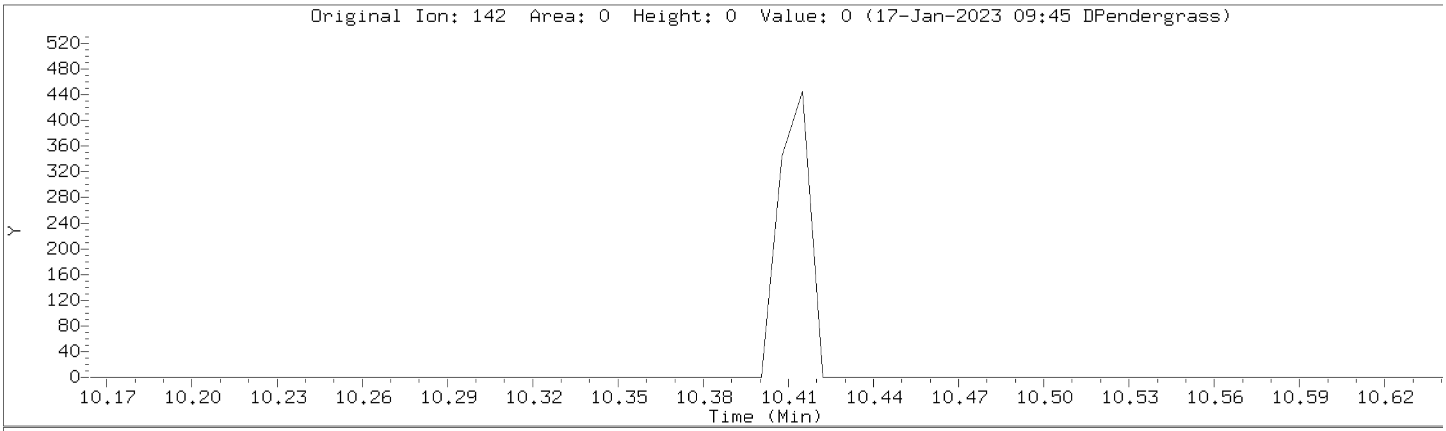
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

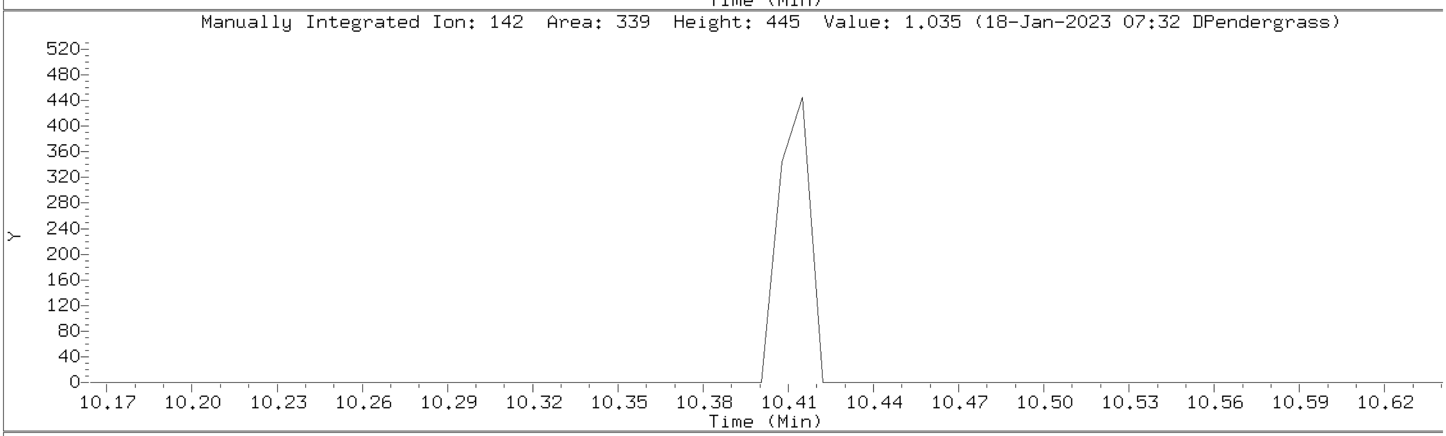


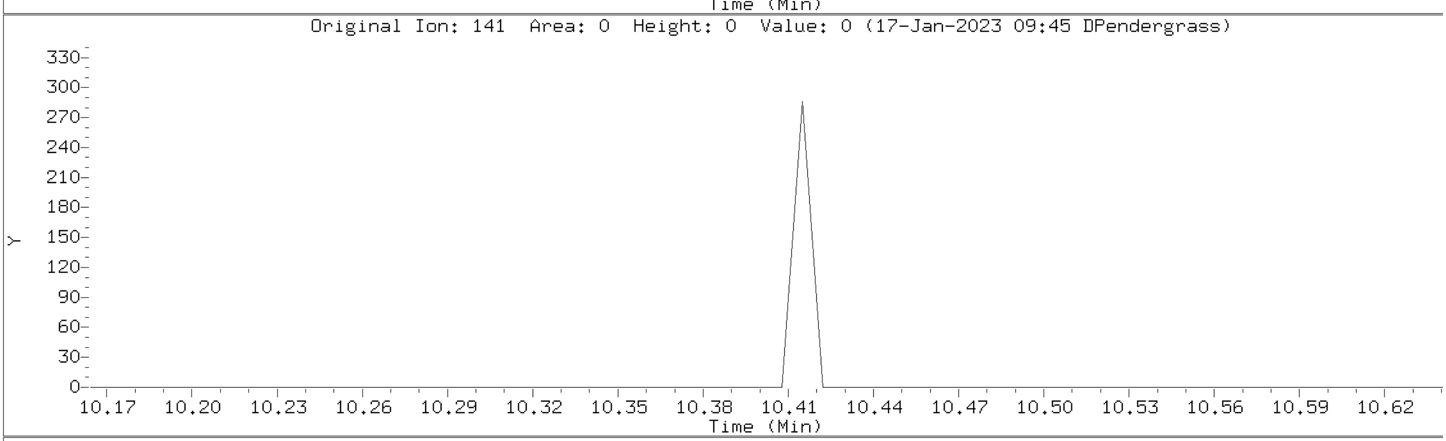


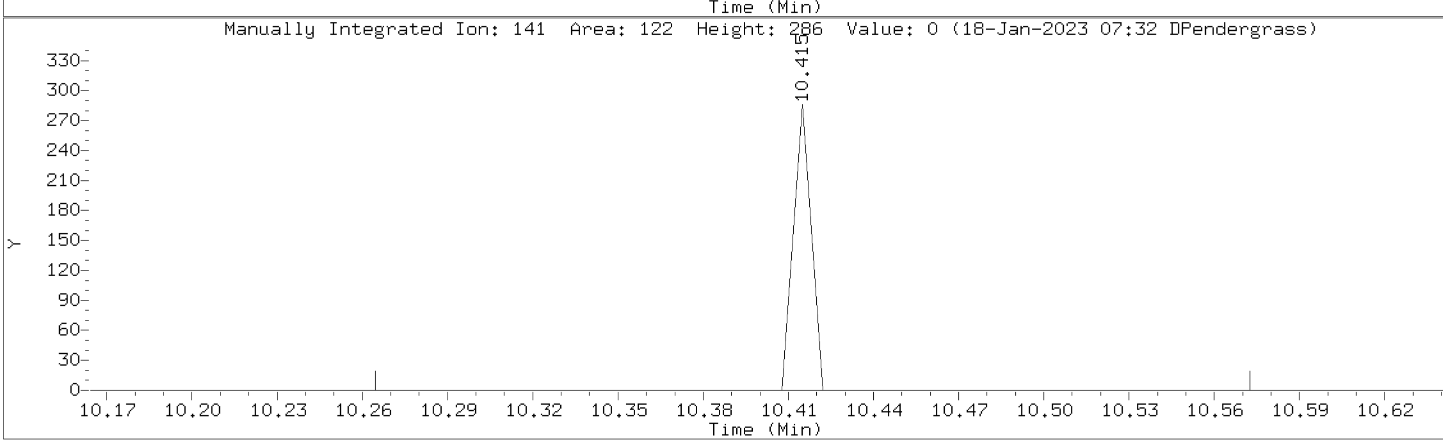
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b02.d
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: 2,methyl-naphthalene   Review Code: NI
CAS Number:









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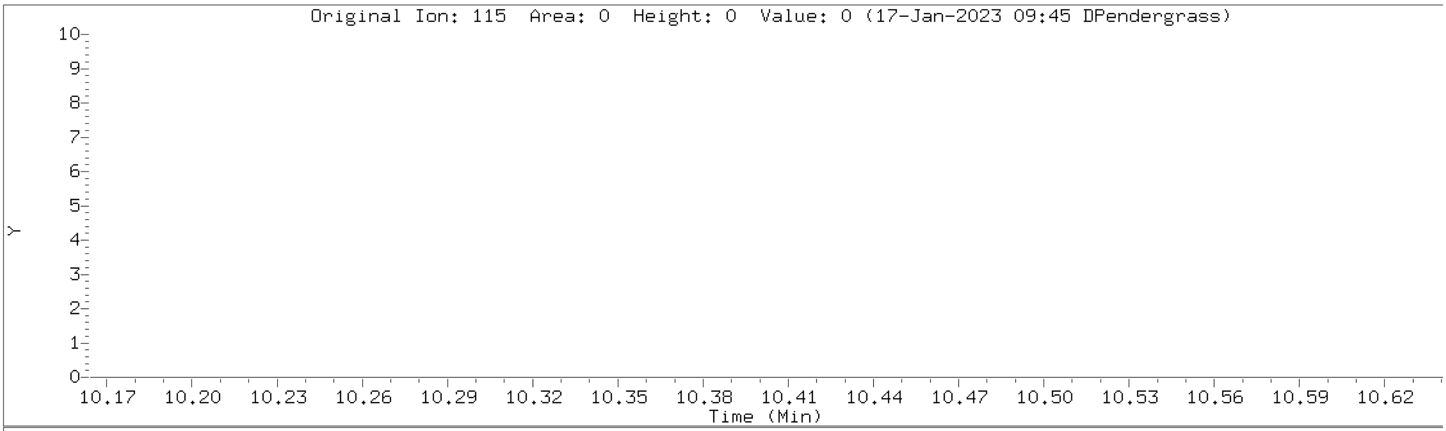
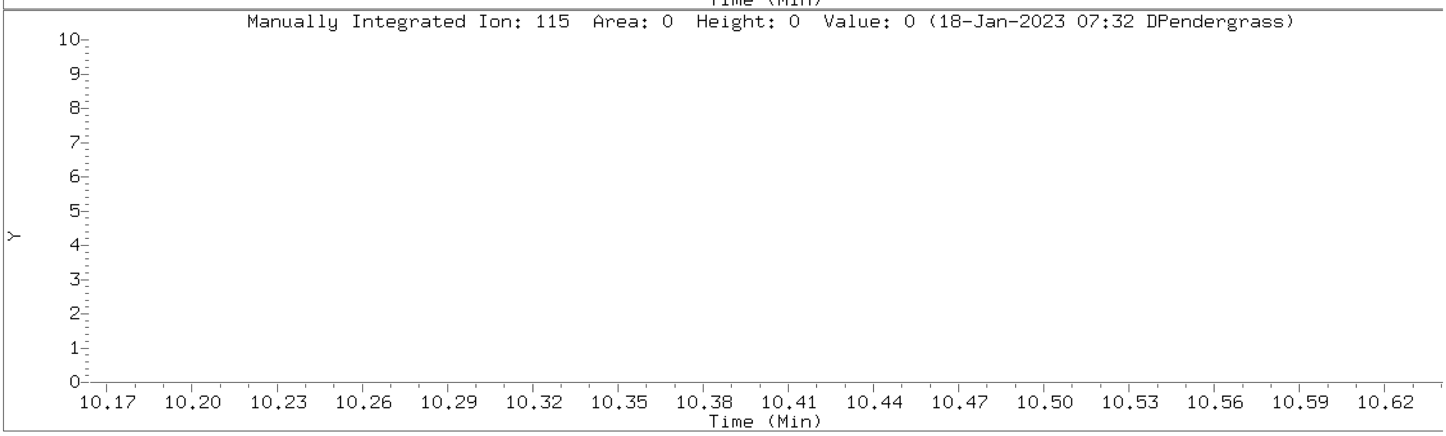
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2





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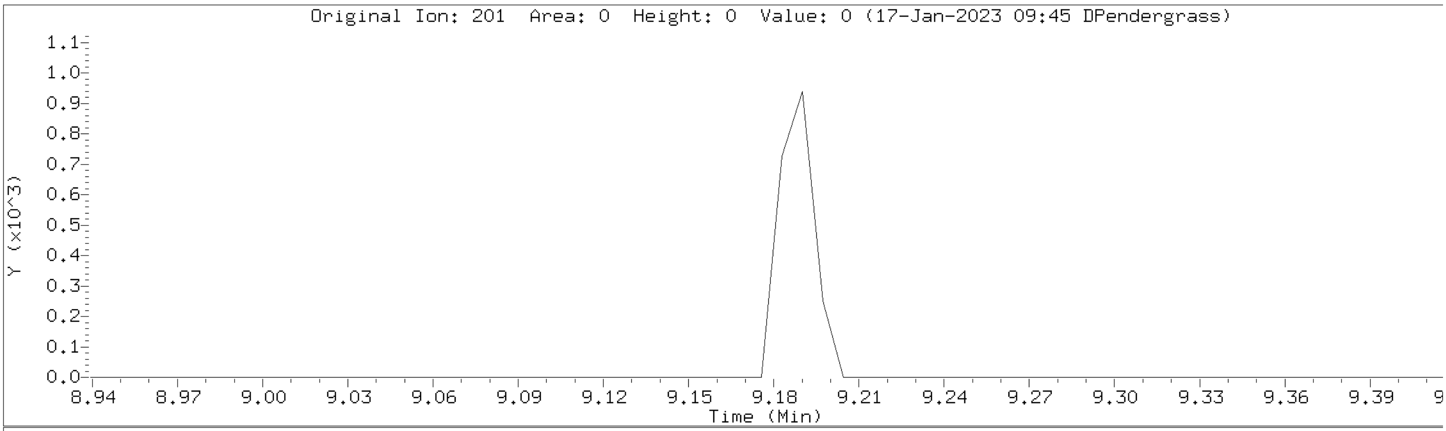
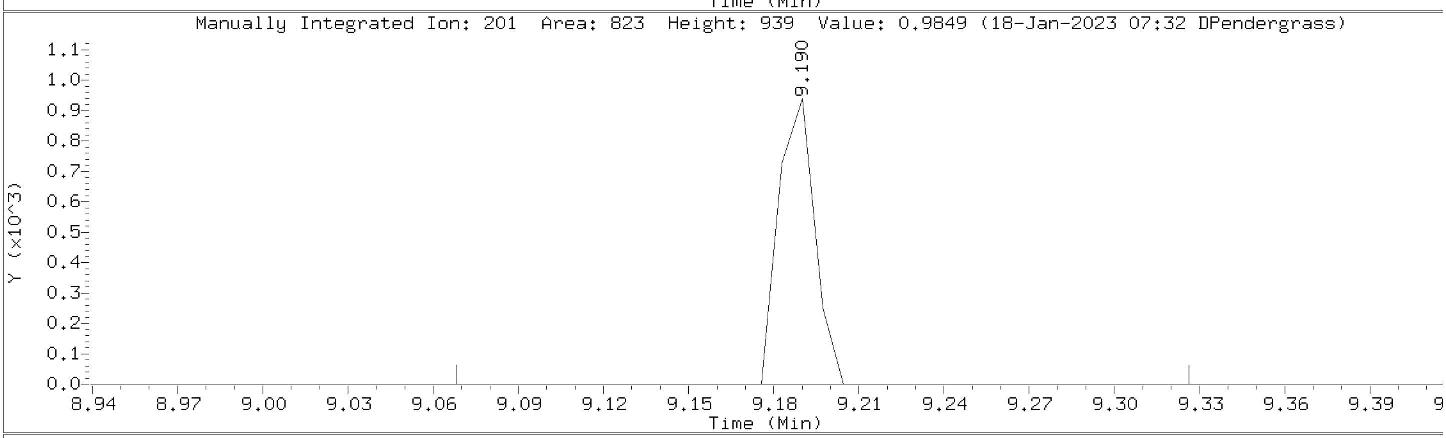
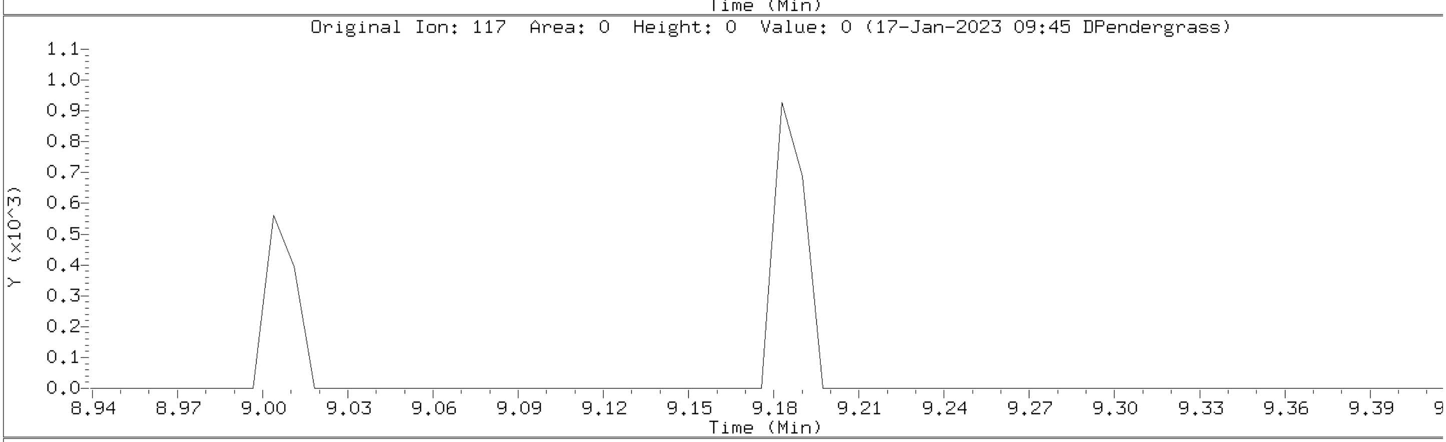
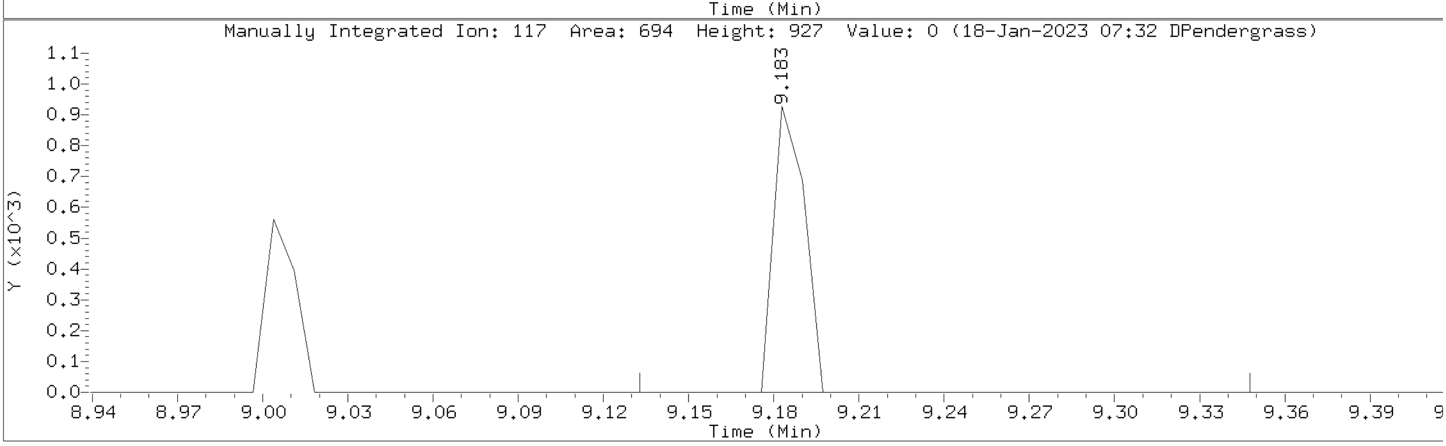
Injection Date: 16-JAN-2023 14:54
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL2

Compound: Hexachloroethane   Review Code: NI
CAS Number: 67-72-1









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b03.d
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Inj Date : 16-JAN-2023 15:26
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal3,335763:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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	1.174	1.175	(0.236)	2737	2.00000	1.94(T)	
2 Chloromethane	50	1.289	1.296	(0.259)	2978	2.00000	2.13	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	3158	2.00000	2.06	
4 Bromomethane	94	1.532	1.533	(0.308)	1496	2.00000	2.09	
5 Chloroethane	64	1.590	1.590	(0.319)	1695	2.00000	1.94	
6 Trichlorofluoromethane	101	1.740	1.740	(0.350)	3546	2.00000	2.02	
7 Diethyl ether	74	1.912	1.912	(0.384)	1969	2.00000	2.38	
8 Acrolein	56	1.991	1.991	(0.400)	10662	40.0000	41.0	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	2434	2.00000	2.07	
10 1,1-Dichloroethene	96	2.070	2.070	(0.416)	2459	2.00000	2.11	
11 Acetone	43	2.084	2.091	(0.419)	4782	10.0000	12.5	
12 Iodomethane	142	2.177	2.177	(0.437)	3229	2.00000	1.96	
13 Carbon Disulfide	76	2.234	2.234	(0.449)	8678	2.00000	2.23	
14 Acetonitrile	39	2.313	2.313	(0.465)	2769	10.0000	11.0(M)	WP
15 allyl chloride	41	2.313	2.314	(0.465)	4843	2.00000	2.33	
16 Methyl Acetate	43	2.320	2.320	(0.466)	12142	10.0000	11.8	
17 tert-Butyl Alcohol	59	2.456	2.464	(0.494)	1001	10.0000	9.14(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.482)	5389	2.00000	2.12	
19 Acrylonitrile	53	2.585	2.585	(0.519)	4938	10.0000	10.4	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.528)	8780	2.00000	2.35	
21 1,2-Dichloroethene (trans)	96	2.621	2.628	(0.527)	2878	2.00000	2.16	
22 n-Hexane	57	2.872	2.872	(0.577)	3058	2.00000	1.87(M)	NI

		QUANT SIG					AMOUNTS		
							CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	23 1,1-Dichloroethane	63	2.994	2.994	(0.601)	5304	2.00000	2.33	
	24 Vinyl Acetate	43	3.037	3.037	(0.610)	19415	8.00000	7.89	
	25 Diisopropyl ether	45	3.065	3.065	(0.616)	8689	2.00000	2.32	
	26 chloroprene	53	3.094	3.094	(0.622)	3769	2.00000	2.09	
	27 Ethyl-tert-butyl ether	59	3.452	3.459	(0.694)	8876	2.00000	2.35	
	28 2,2-Dichloropropane	77	3.617	3.624	(0.727)	3952	2.00000	2.22	
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.727)	3193	2.00000	2.16	
	30 2-Butanone	43	3.624	3.624	(0.728)	6826	10.0000	11.8(M)	WP
	31 Ethyl Acetate	88	3.717	3.710	(0.747)	296	10.0000	8.89(M)	NI
	32 Propionitrile	54	3.688	3.689	(0.741)	1470	10.0000	8.84(M)	NI
	33 Methacrylonitrile	41	3.882	3.889	(0.780)	8336	10.0000	11.3	
	34 Bromochloromethane	49	3.903	3.903	(0.784)	2534	2.00000	2.54	
	35 Tetrahydrofuran	42	3.982	3.982	(0.800)	4917	10.0000	11.8	
	36 Chloroform	83	4.011	4.011	(0.806)	5460	2.00000	2.38	
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.843)	48545	50.0000	50.9	
	38 1,1,1-Trichloroethane	97	4.240	4.240	(0.852)	4061	2.00000	2.14	
	39 Cyclohexane	56	4.319	4.312	(0.868)	4001	2.00000	2.00	
	40 Carbon Tetrachloride	117	4.441	4.441	(0.892)	3532	2.00000	2.13	
	41 1,1-Dichloropropene	75	4.433	4.433	(0.891)	3526	2.00000	2.15	
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	4.663	4.670	(0.937)	12988	2.00000	2.30	
	44 1,2-Dichloroethane	62	4.677	4.677	(0.940)	4180	2.00000	2.14(M)	NI
	45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.960)	6031	2.00000	1.89	
	46 tert-Amylmethyl ether	73	4.820	4.814	(0.968)	8275	2.00000	2.25(M)	LT
*	47 Fluorobenzene	96	4.978	4.985	(1.000)	210083	50.0000		
	48 Trichloroethene	95	5.379	5.379	(1.081)	3120	2.00000	2.21	
	49 Methylcyclohexane	55	5.587	5.587	(1.122)	2867	2.00000	1.92	
	50 1,2-Dichloropropane	63	5.601	5.601	(1.125)	3273	2.00000	1.98(M)	NI
	51 Dibromomethane	93	5.716	5.716	(1.148)	1927	2.00000	2.40	
	52 Methyl methacrylate	69	5.751	5.759	(1.155)	2086	2.00000	2.04	
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	5.888	5.888	(1.183)	4540	2.00000	2.36(M)	NI
	55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	9117	10.0000	10.2	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.832)	5751	2.00000	2.40	
	57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	15367	10.0000	11.0	
$	58 Toluene-d8	98	6.590	6.589	(0.864)	228498	50.0000	51.6	
	59 Toluene	91	6.647	6.647	(0.871)	15161	2.00000	2.30	
	60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	4804	2.00000	2.27	
	61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	4005	2.00000	2.08(M)	NI
	62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	2471	2.00000	2.25	
	63 Tetrachloroethene	166	7.077	7.077	(0.928)	3824	2.00000	2.15	
	64 1,3-Dichloropropane	76	7.084	7.091	(0.929)	5473	2.00000	2.34	
	65 2-Hexanone	43	7.163	7.163	(0.939)	10938	10.0000	10.6	
	66 Dibromochloromethane	129	7.249	7.248	(0.950)	3546	2.00000	2.29	
	67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	3185	2.00000	2.24	
*	68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	170638	50.0000		
	69 Chlorobenzene	112	7.650	7.650	(1.003)	9594	2.00000	2.23	
	70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	3409	2.00000	2.29	
	71 Ethylbenzene	106	7.721	7.721	(1.012)	4727	2.00000	2.10	
	72 m&p-Xylene	106	7.793	7.793	(1.022)	6150	2.00000	2.16	
	73 o-Xylene	106	8.015	8.022	(1.051)	5549	2.00000	2.11	
	74 Styrene	104	8.022	8.022	(1.052)	9231	2.00000	2.07	
	75 Bromoform	173	8.130	8.130	(0.916)	2619	2.00000	2.14(M)	NI
	76 Isopropylbenzene	105	8.223	8.223	(1.078)	13632	2.00000	2.08	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.088)	82438	50.0000	51.3	
78 Bromobenzene	77	8.380	8.380	(1.099)	7387	2.00000	2.27	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	4713	2.00000	2.34(M)	NI
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	1398	2.00000	2.21	
81 trans-1,4-Dichloro-2-butene	53	8.395	8.402	(1.100)	1171	2.00000	2.29	
82 n-Propylbenzene	91	8.438	8.438	(0.951)	15747	2.00000	2.05	
83 2-Chlorotoluene	91	8.481	8.481	(0.956)	9804	2.00000	2.09	
84 1,3,5-Trimethylbenzene	105	8.524	8.523	(0.960)	10882	2.00000	2.04	
85 4-Chlorotoluene	126	8.538	8.538	(0.962)	3732	2.00000	2.12	
86 tert-Butylbenzene	119	8.688	8.689	(0.979)	10715	2.00000	2.02(M)	GT
87 1,2,4-Trimethylbenzene	105	8.703	8.710	(0.981)	10629	2.00000	1.96	
88 sec-Butylbenzene	105	8.789	8.789	(0.990)	12686	2.00000	1.97	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	6840	2.00000	2.14	
90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	11292	2.00000	2.01	
* 91 1,4-Dichlorobenzene-d4	152	8.875	8.874	(1.000)	95484	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	7067	2.00000	2.15	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	11079	2.00000	2.05	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	9013	2.00000	1.97	
95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	6509	2.00000	2.14	
96 Hexachloroethane	201	9.190	9.190	(1.036)	1670	2.00000	1.89	
97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.060)	867	2.00000	2.09(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	2959	2.00000	1.75	
99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	1500	2.00000	1.82	
100 Naphthalene	128	9.877	9.877	(1.113)	8916	2.00000	1.86	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	2495	2.00000	1.80	
102 2,methyl-naphthalene	142	10.415	10.415	(1.174)	639	2.00000	1.84(M)	NI
103 1-Methylnaphthalene	142	10.515	10.522	(1.185)	317	2.00000	1.54(M)	NI

QC Flag Legend

T - Target compound detected outside RT window.
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.
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\50mvcb.i\b011623cal.b\b03.d

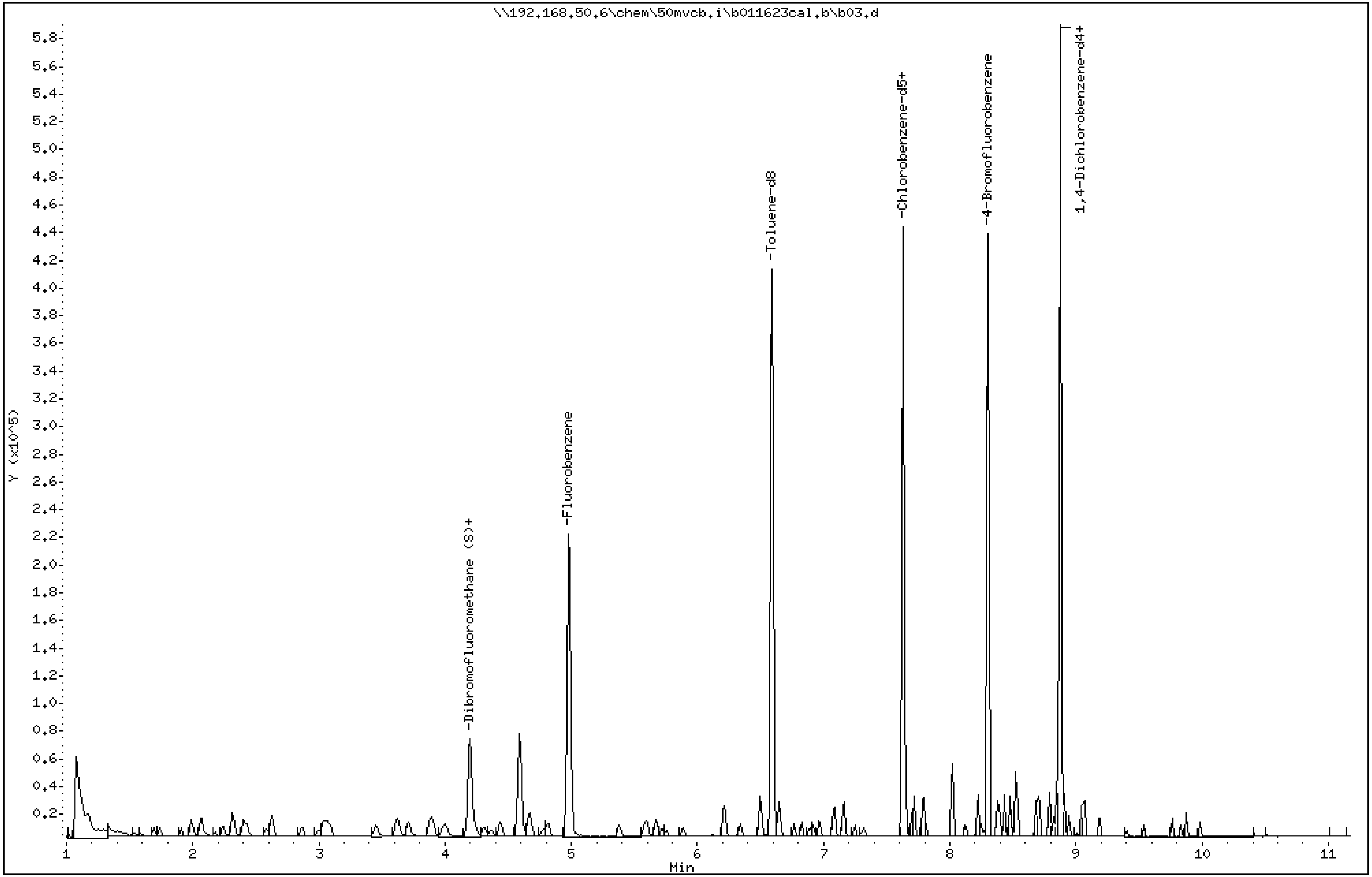
Date : 16-JAN-2023 15:26

Client ID: 8260-CAL3 Instrument: 50mvcb.i

Sample Info: 8260-CAL3,335763:0

Purge Volume: 5.0 Operator: DAP

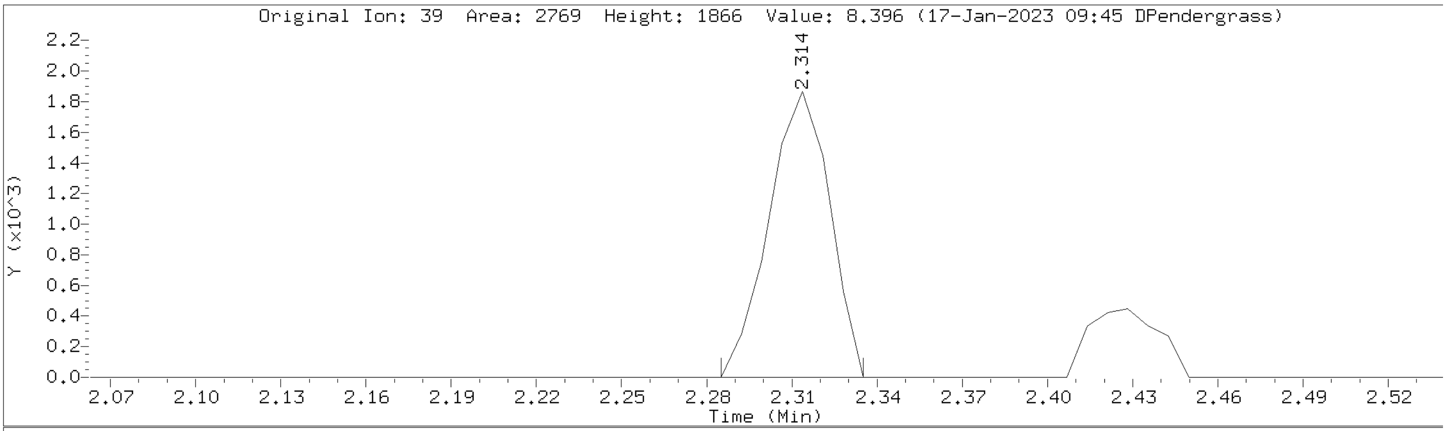
Column phase: DB-624 Column diameter: 0.18



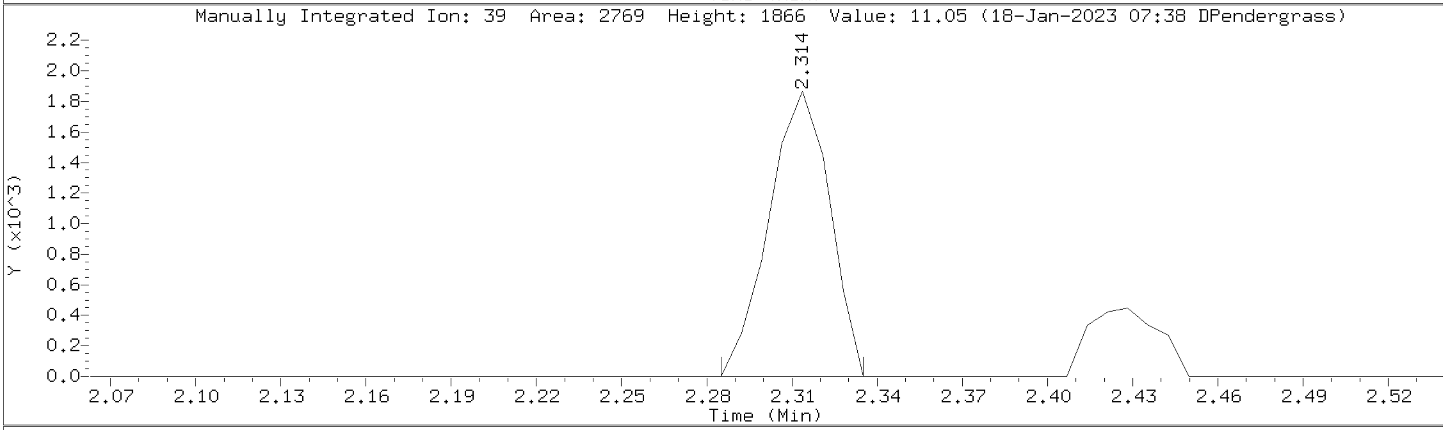
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b03.d
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: Acetonitrile   Review Code: WP
CAS Number: 75-05-8

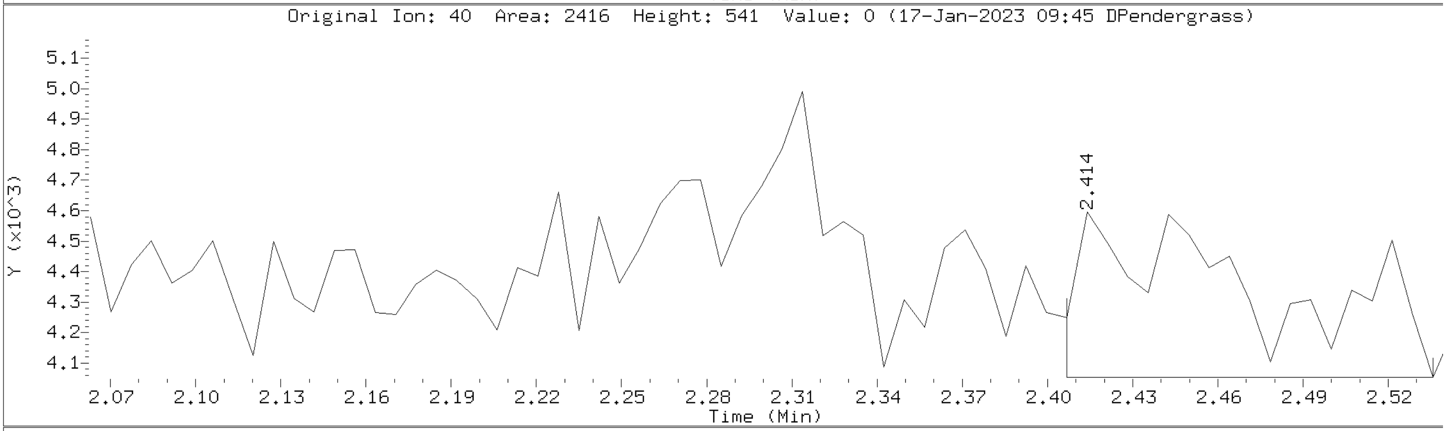
Original Ion: 39 Area: 2769 Height: 1866 Value: 8.396 (17-Jan-2023 09:45 DPendergrass)



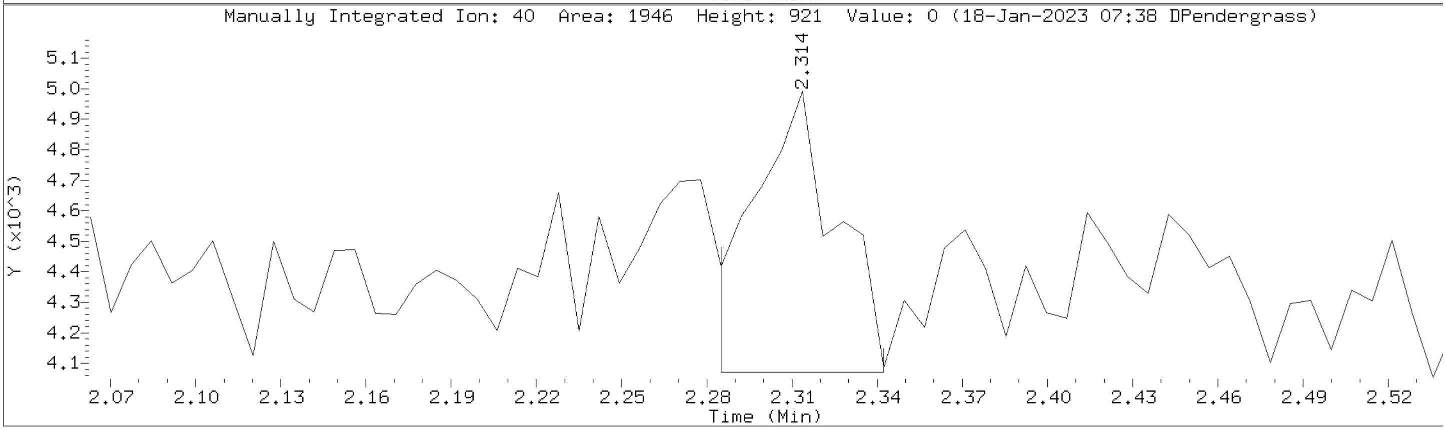
Manually Integrated Ion: 39 Area: 2769 Height: 1866 Value: 11.05 (18-Jan-2023 07:38 DPendergrass)



Original Ion: 40 Area: 2416 Height: 541 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 40 Area: 1946 Height: 921 Value: 0 (18-Jan-2023 07:38 DPendergrass)



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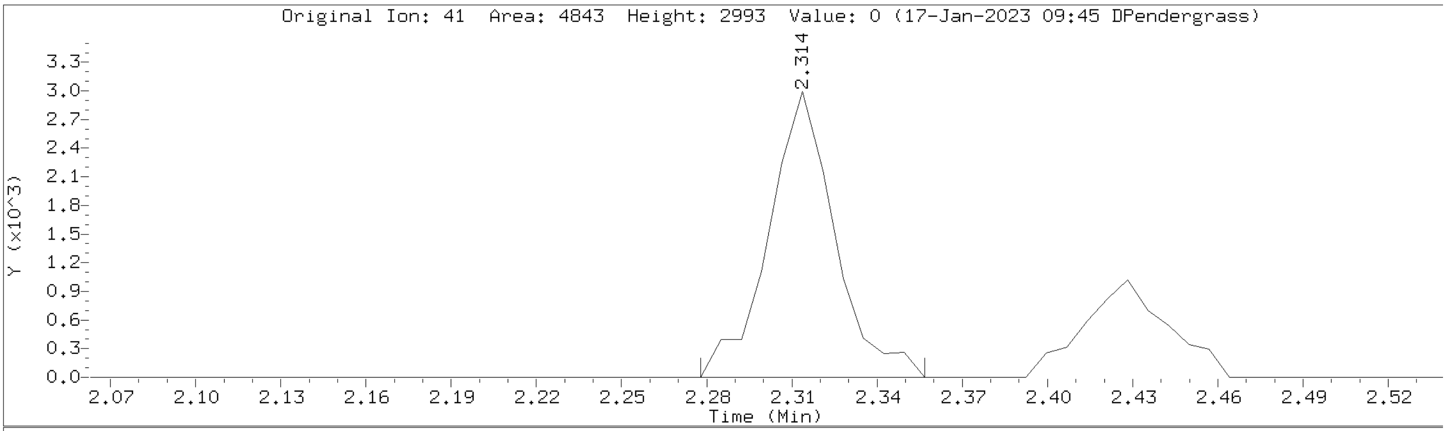
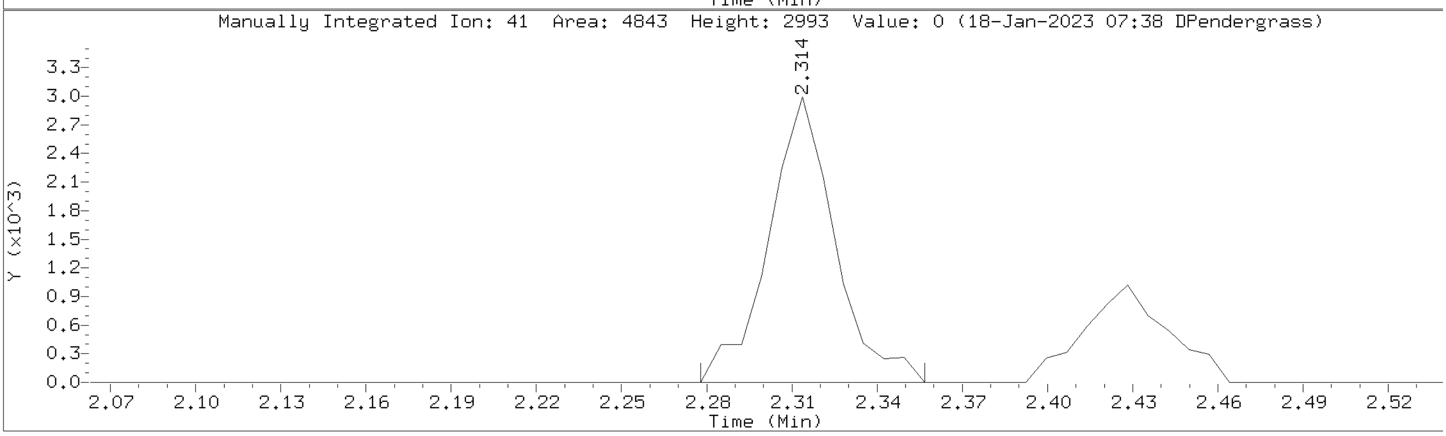
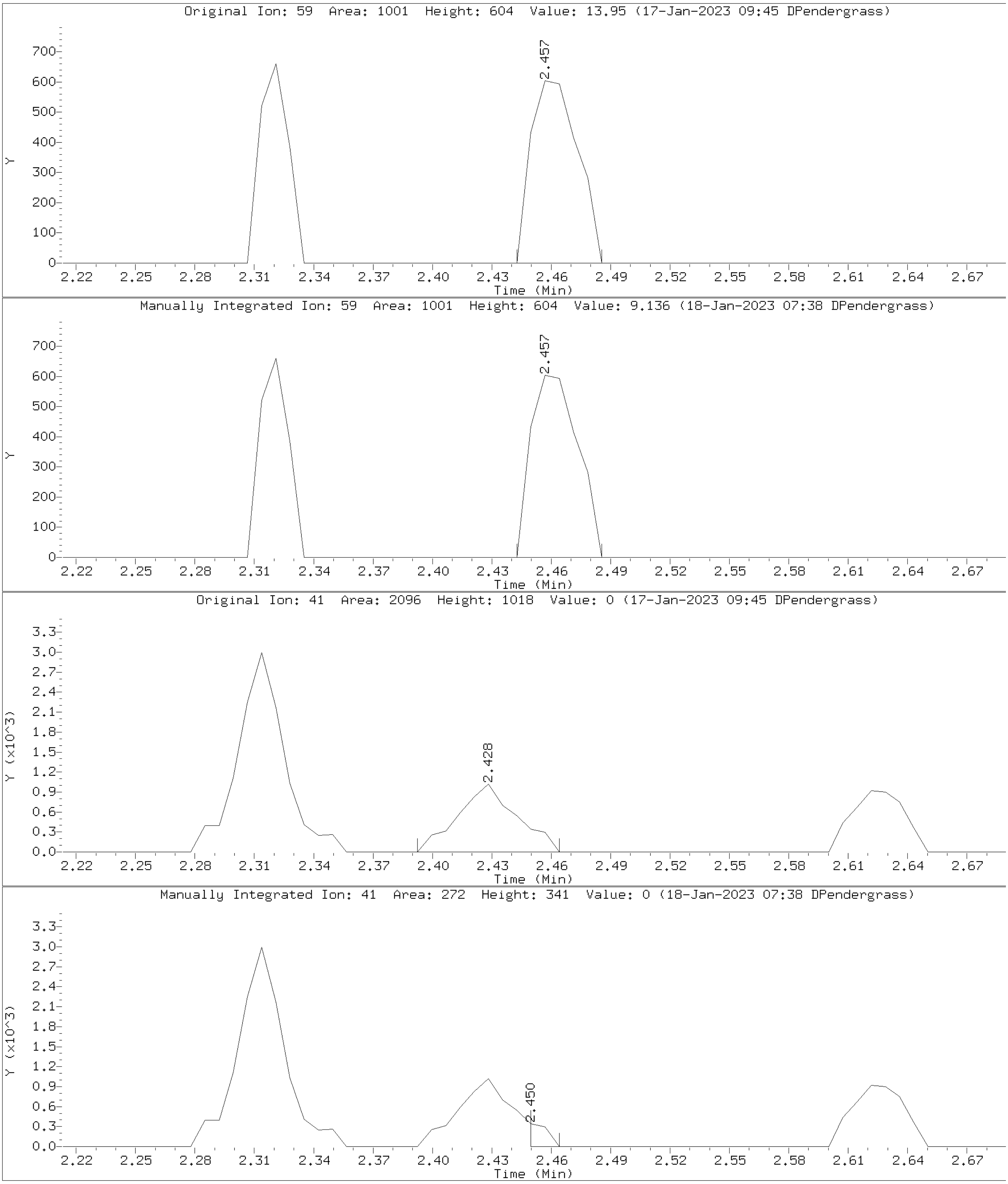
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b03.d
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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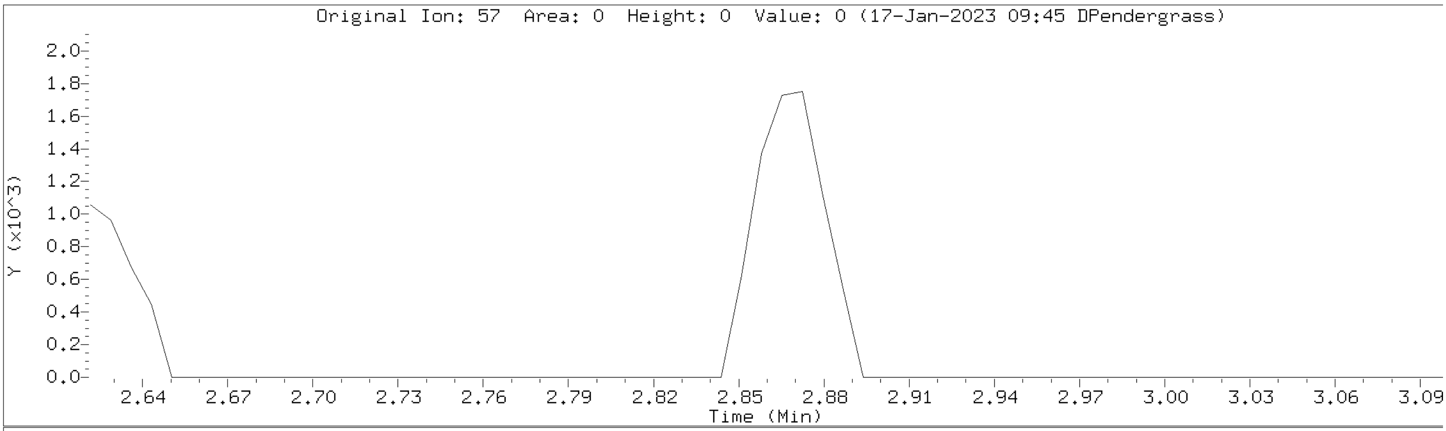
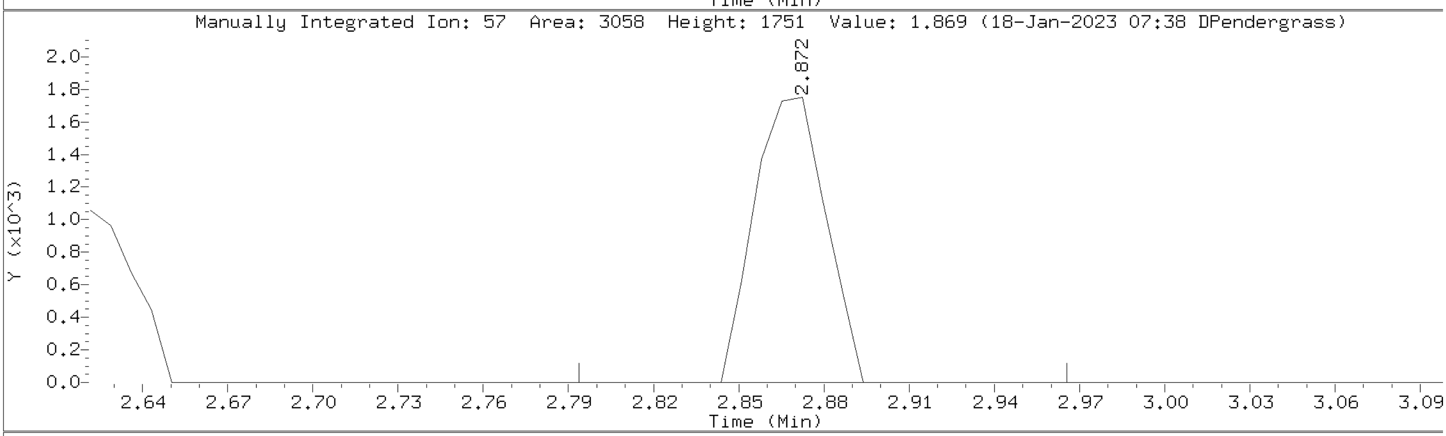
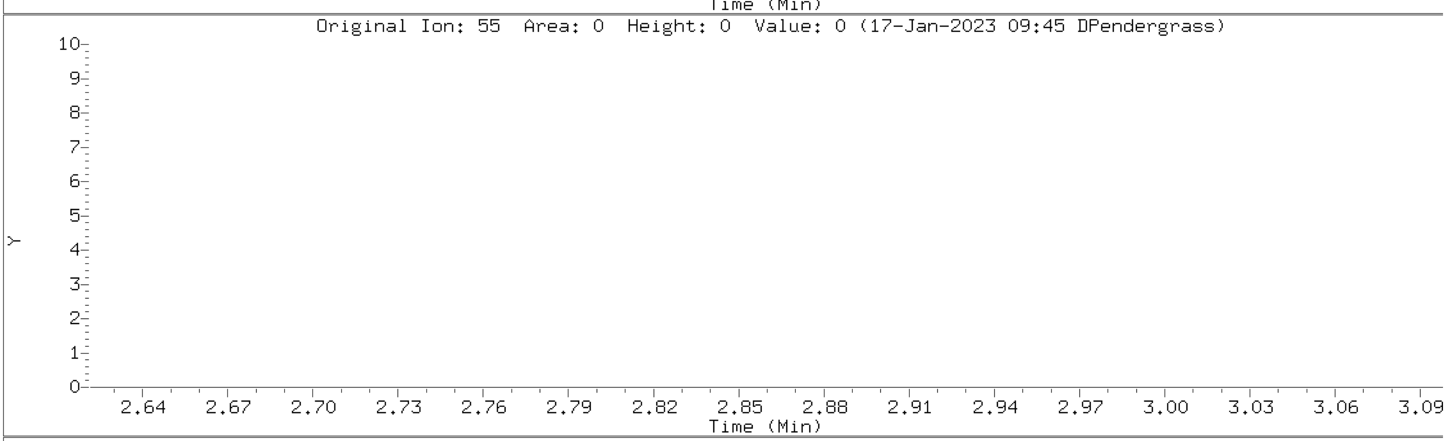
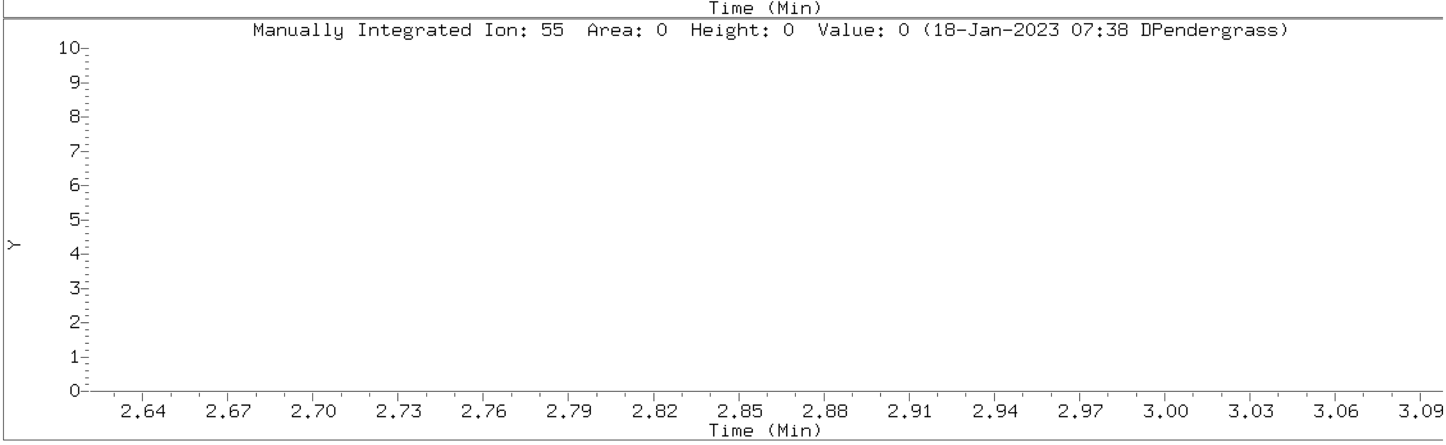
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: n-Hexane   Review Code: NI
CAS Number:



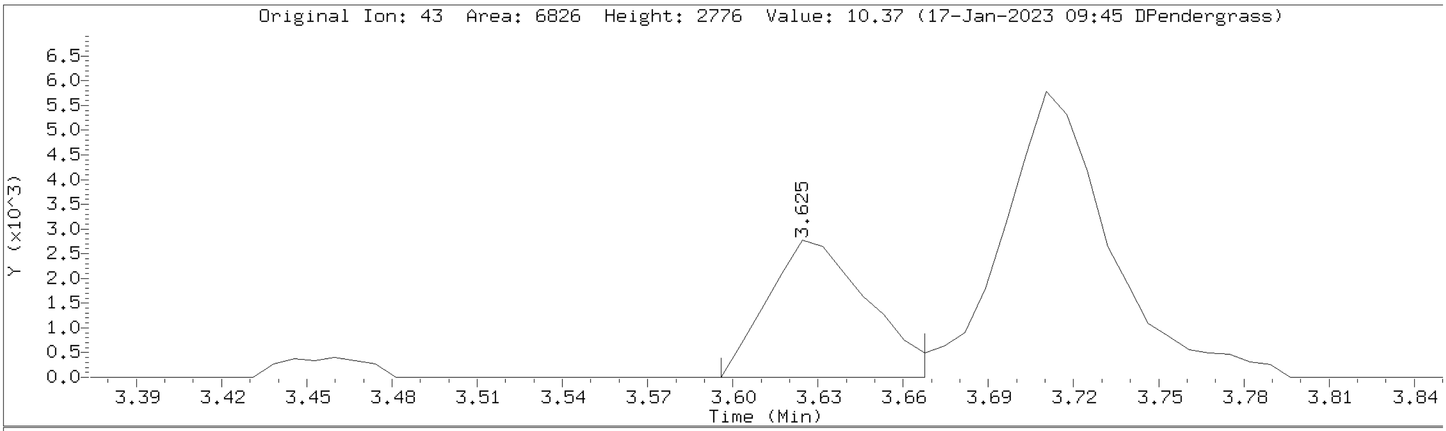


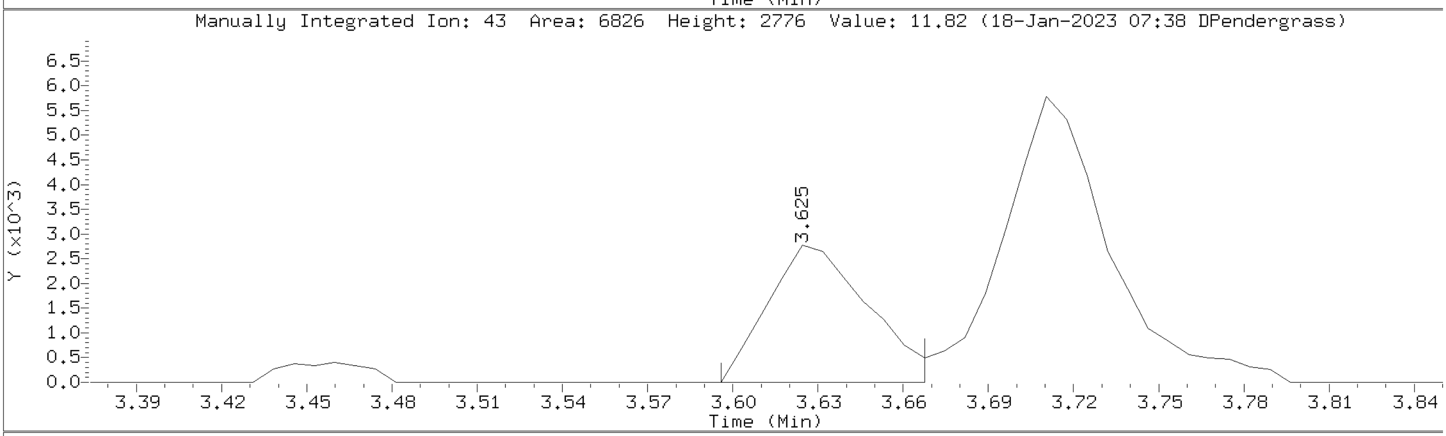


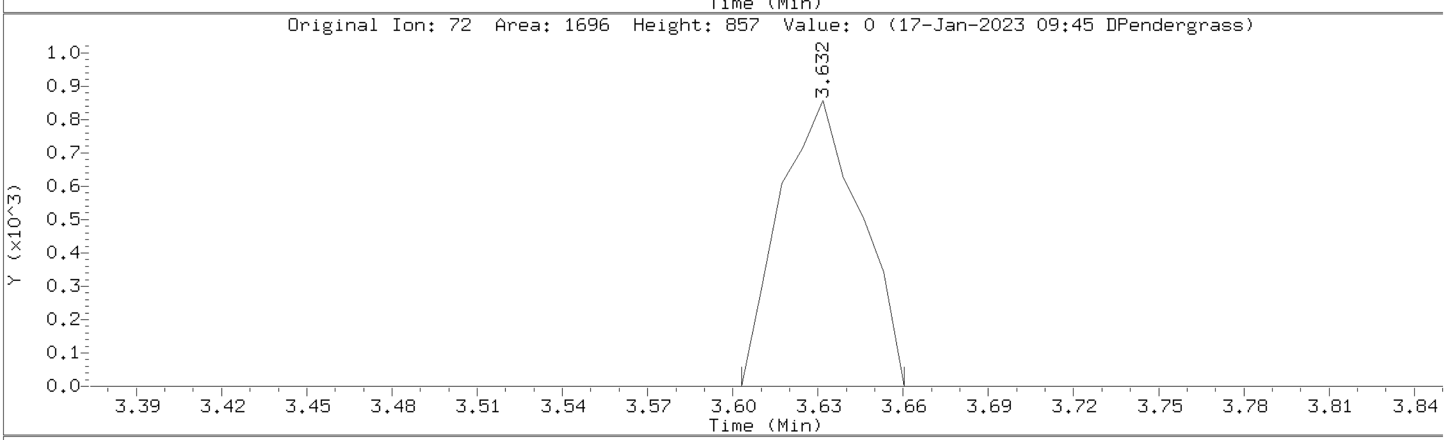


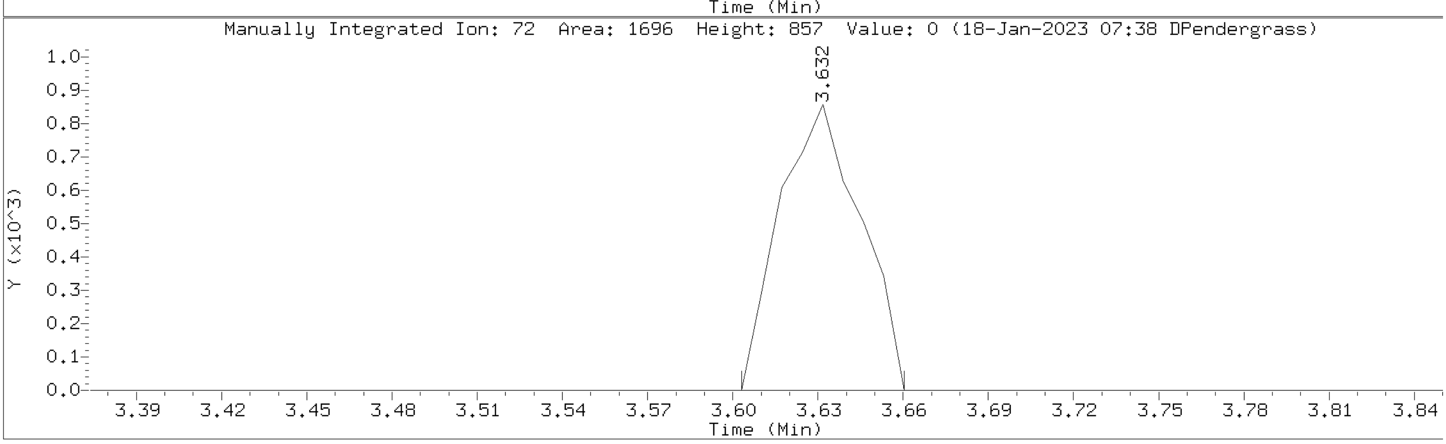
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b03.d
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 2-Butanone   Review Code: WP
CAS Number: 78-93-3









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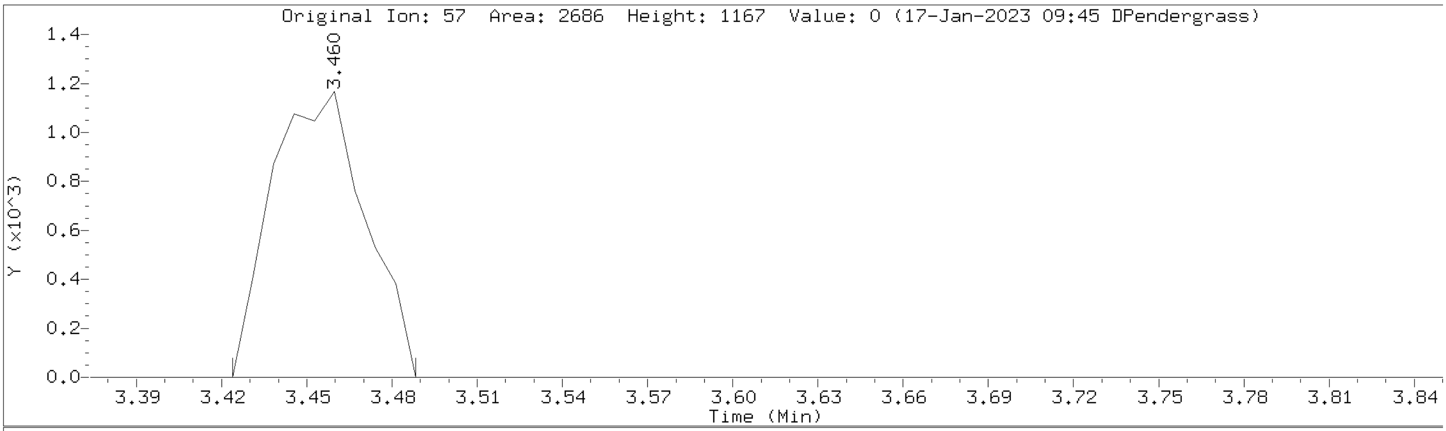
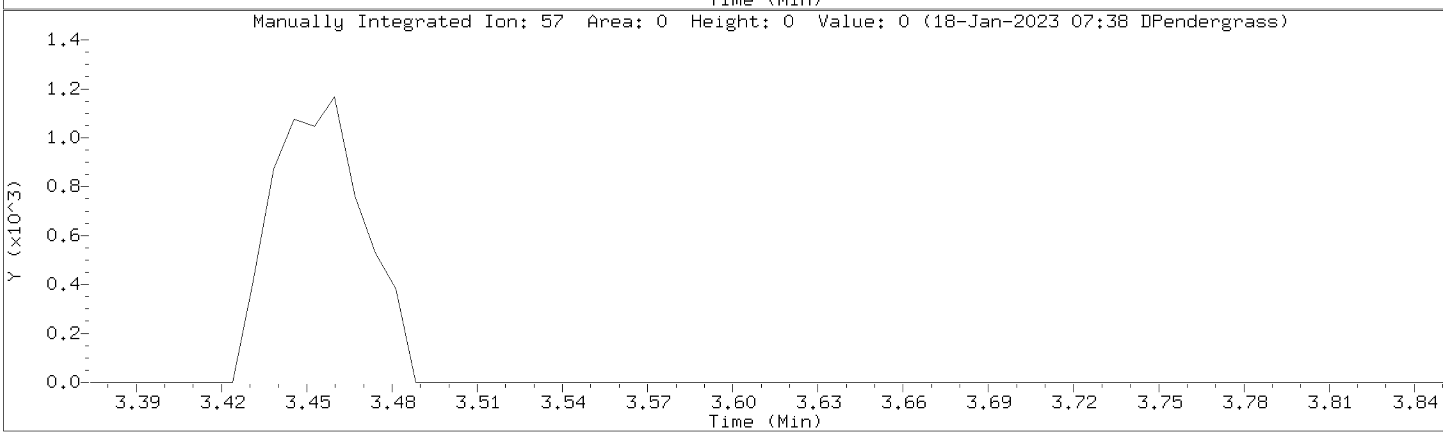
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3





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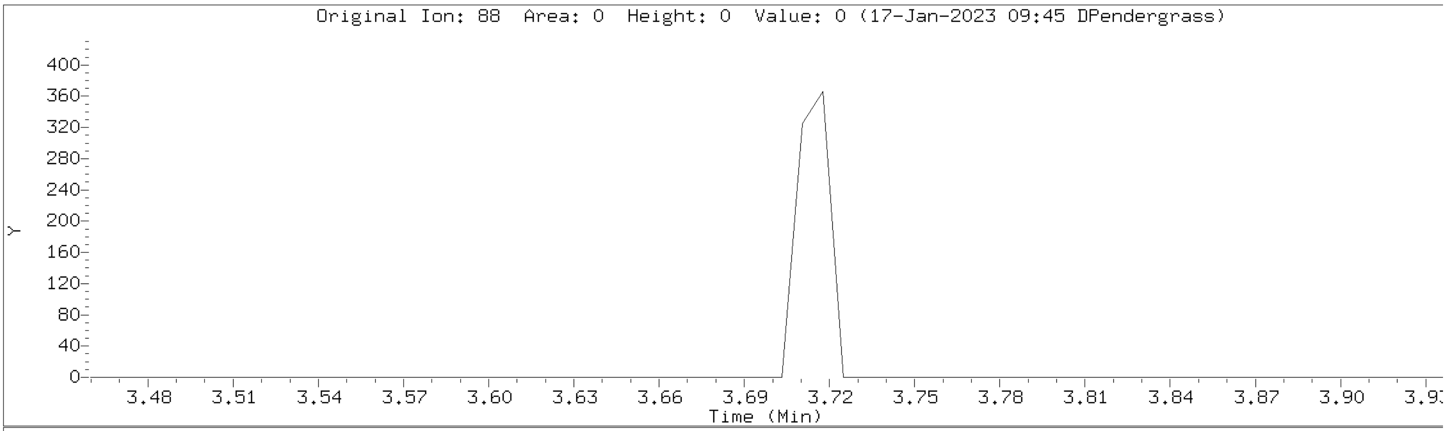
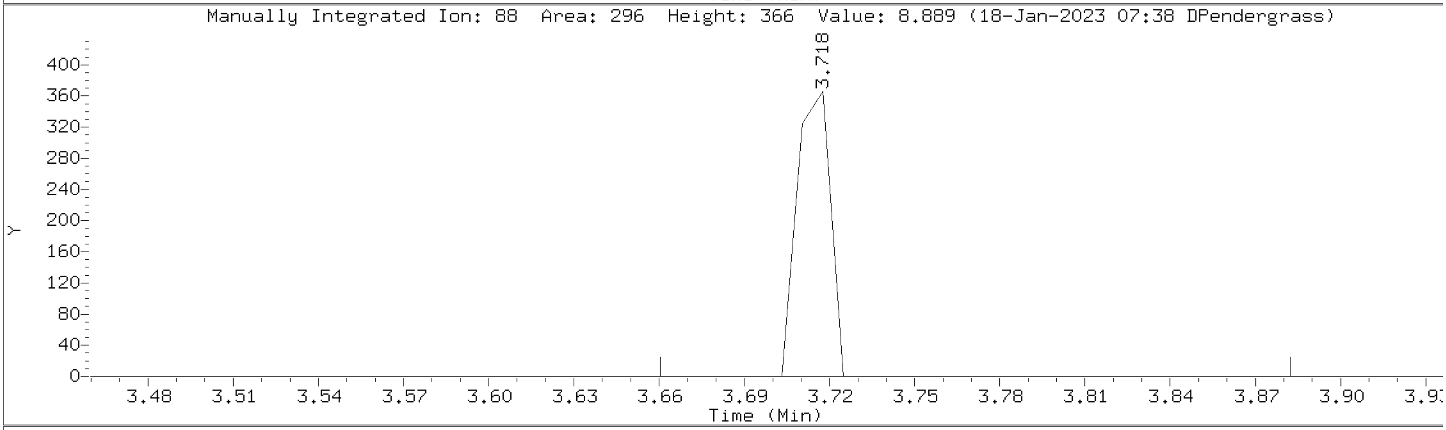
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Acetate   Review Code: NI
CAS Number: 141-78-6

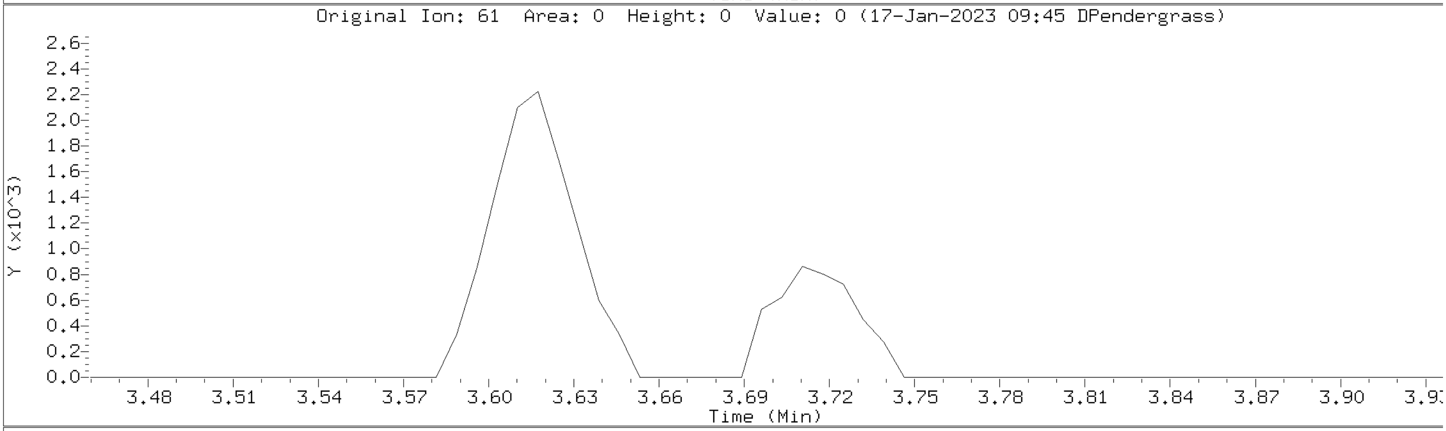
Original Ion: 88 Area: 0 Height: 0 Value: 0 (17-Jan-2023 09:45 DPendergrass)



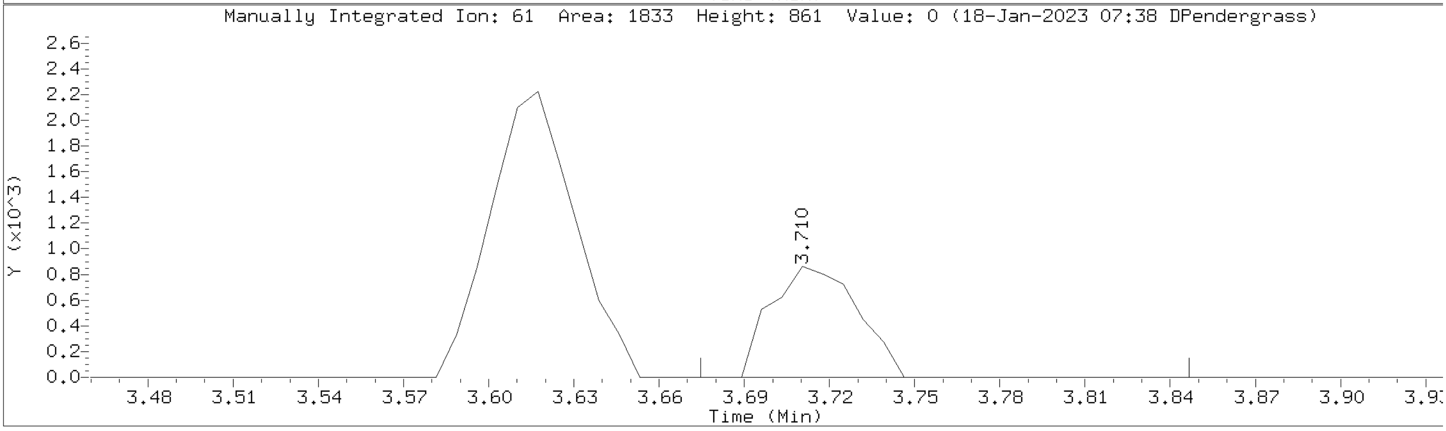
Manually Integrated Ion: 88 Area: 296 Height: 366 Value: 8.889 (18-Jan-2023 07:38 DPendergrass)



Original Ion: 61 Area: 0 Height: 0 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 61 Area: 1833 Height: 861 Value: 0 (18-Jan-2023 07:38 DPendergrass)



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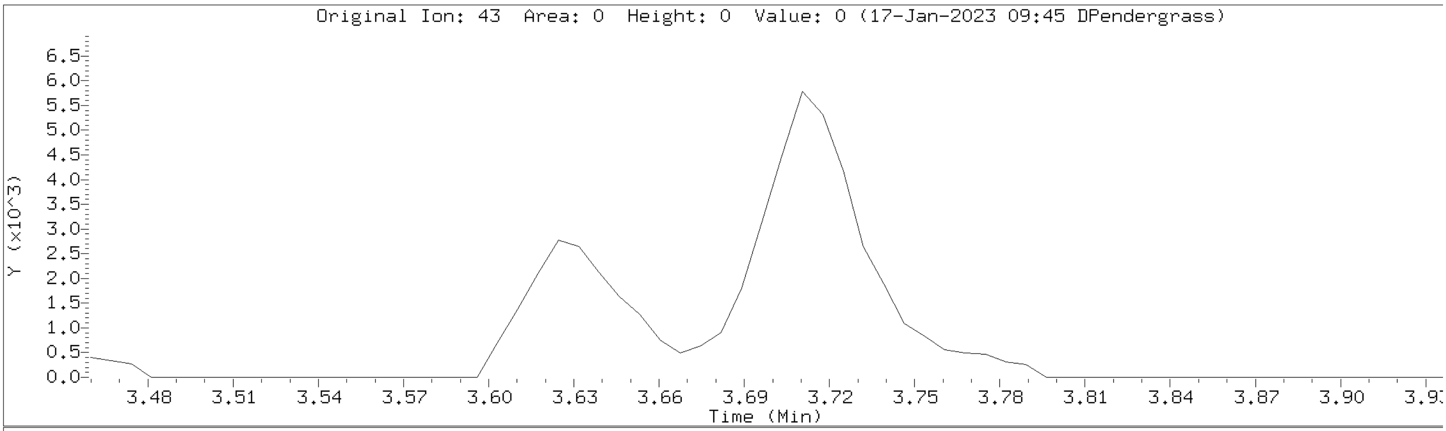
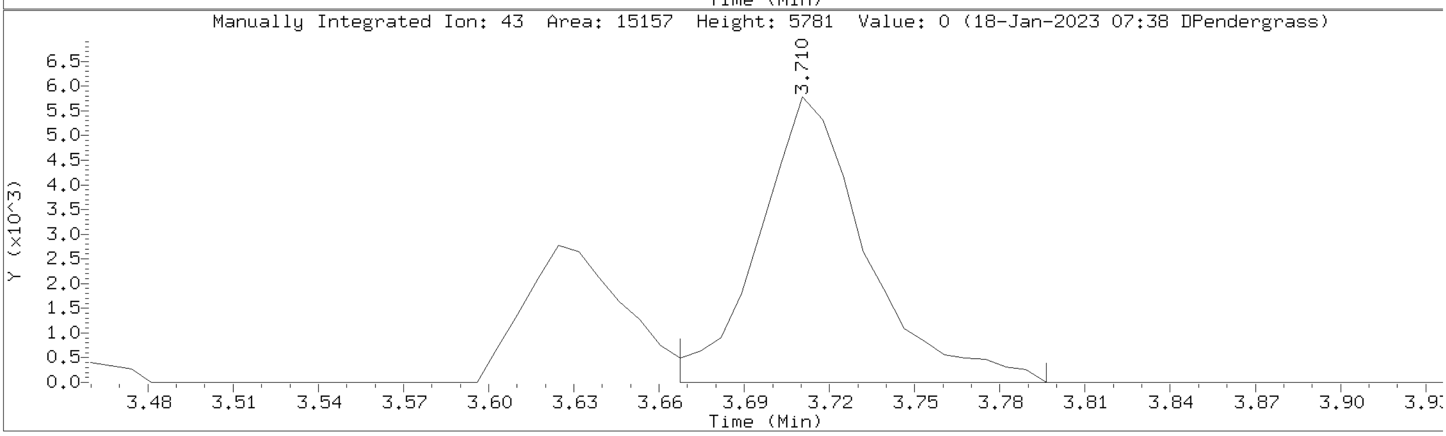
Lab Sample ID: 8260-CAL3





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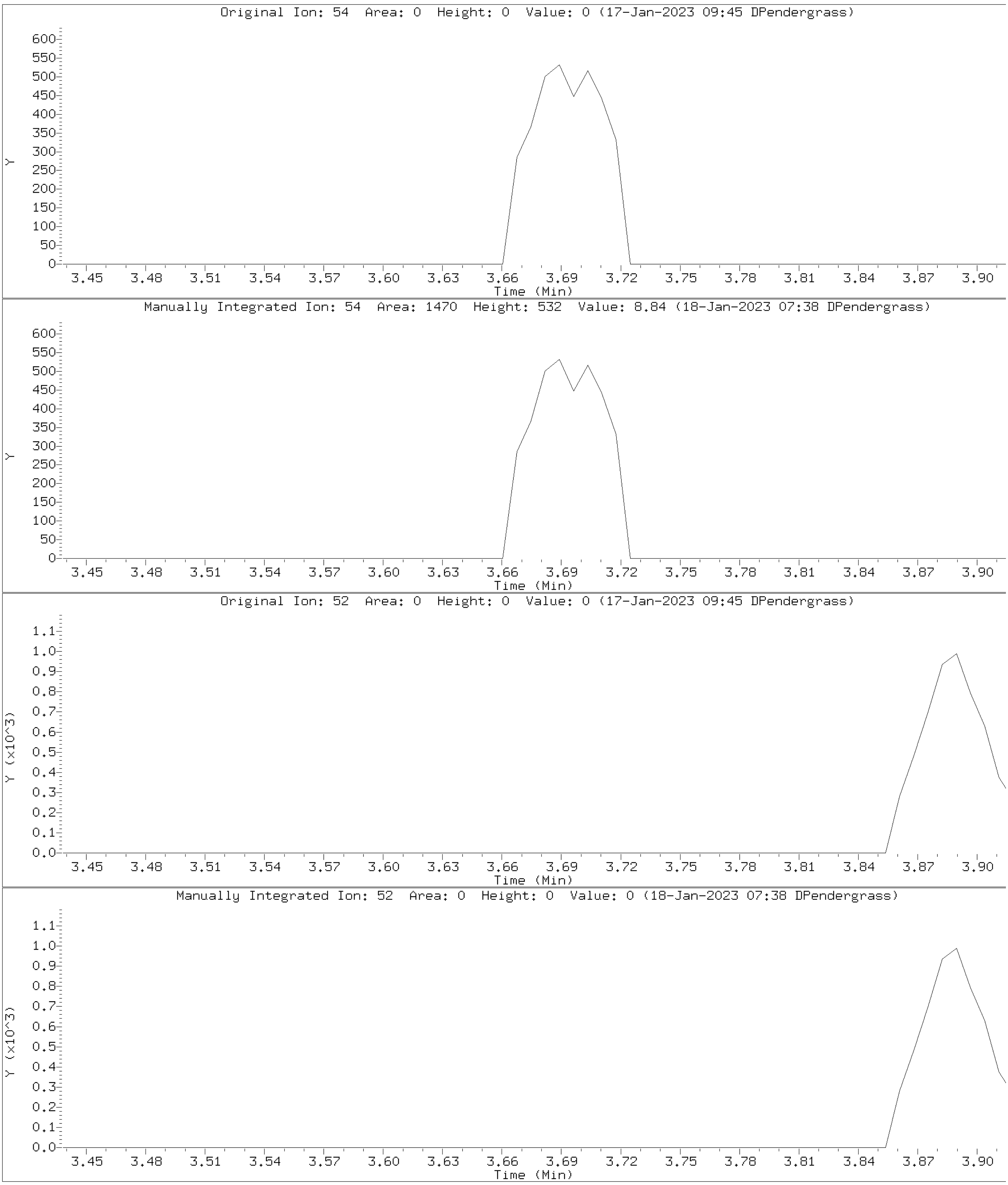
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0



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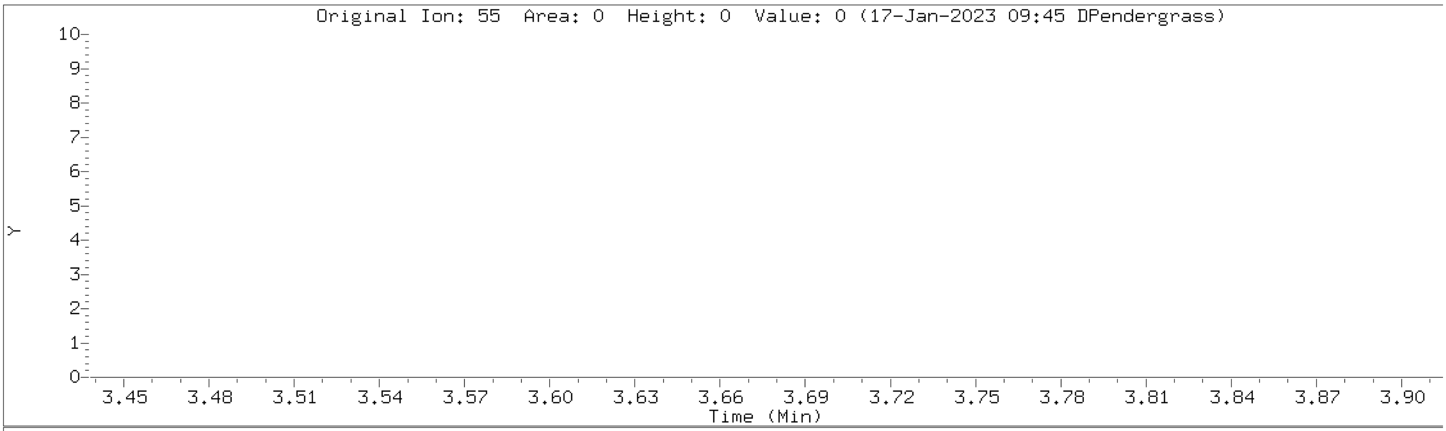
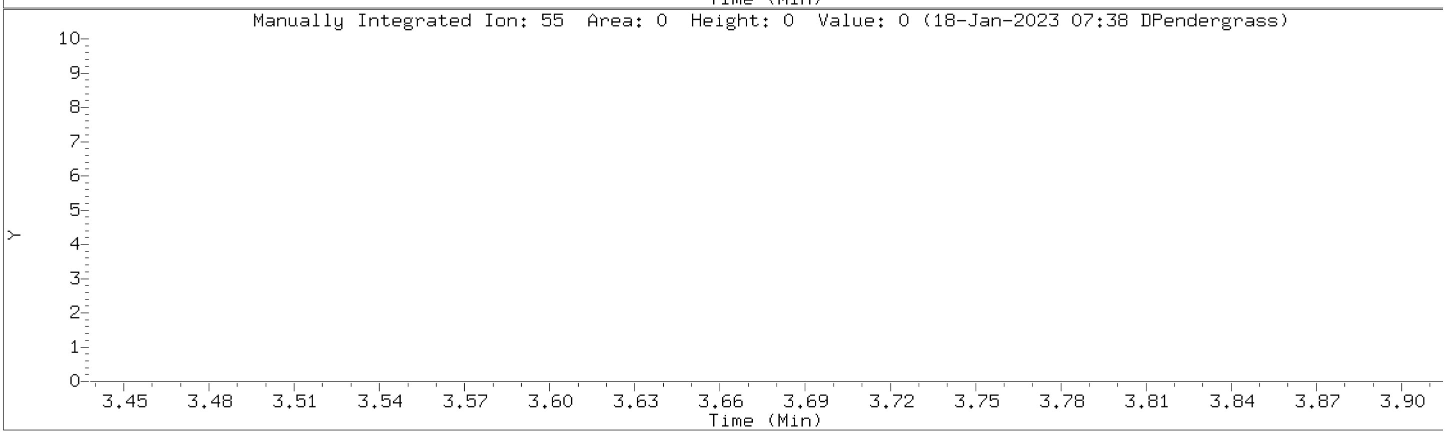
Lab Sample ID: 8260-CAL3





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Injection Date: 16-JAN-2023 15:26
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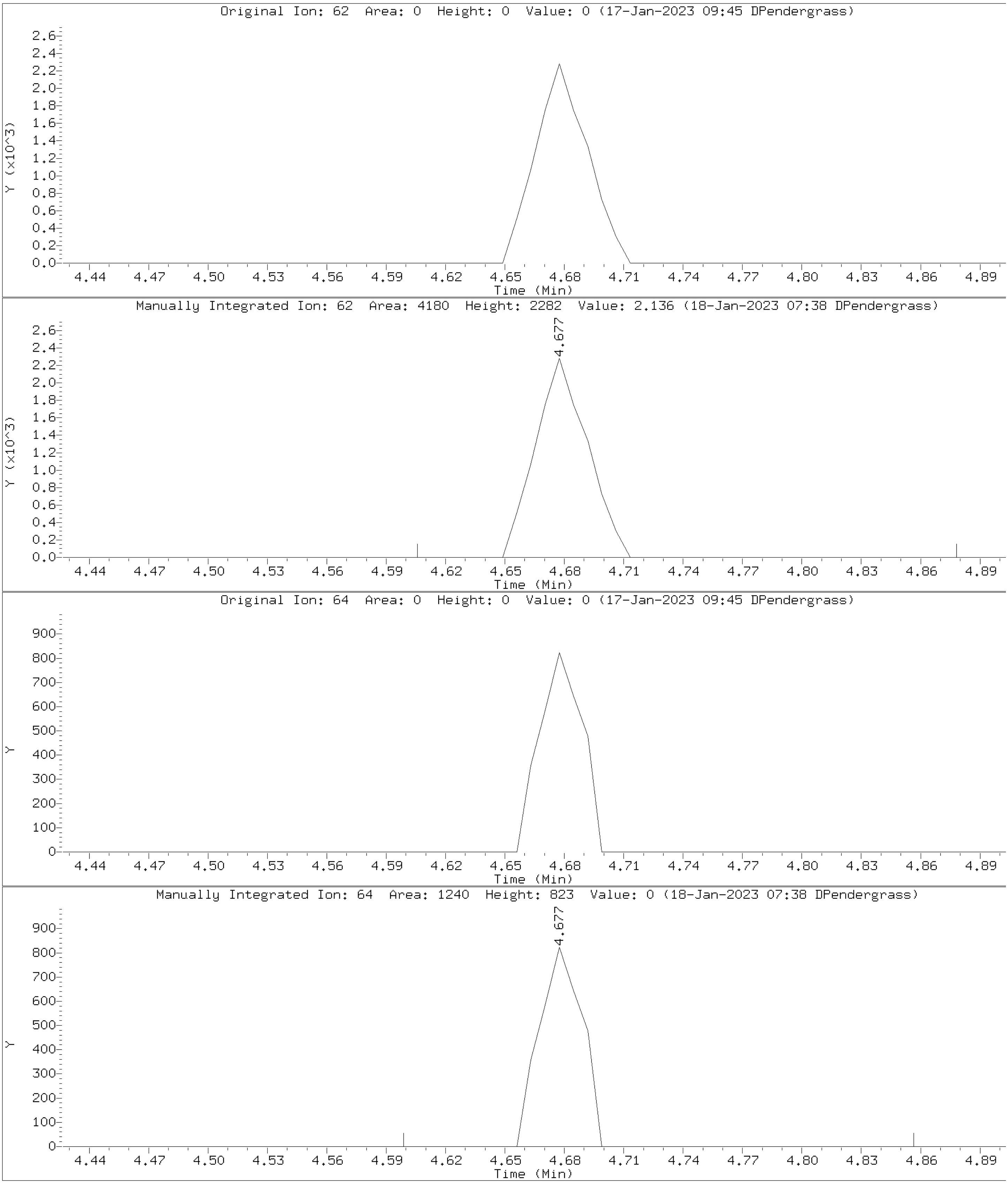
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloroethane   Review Code: NI
CAS Number: 107-06-2



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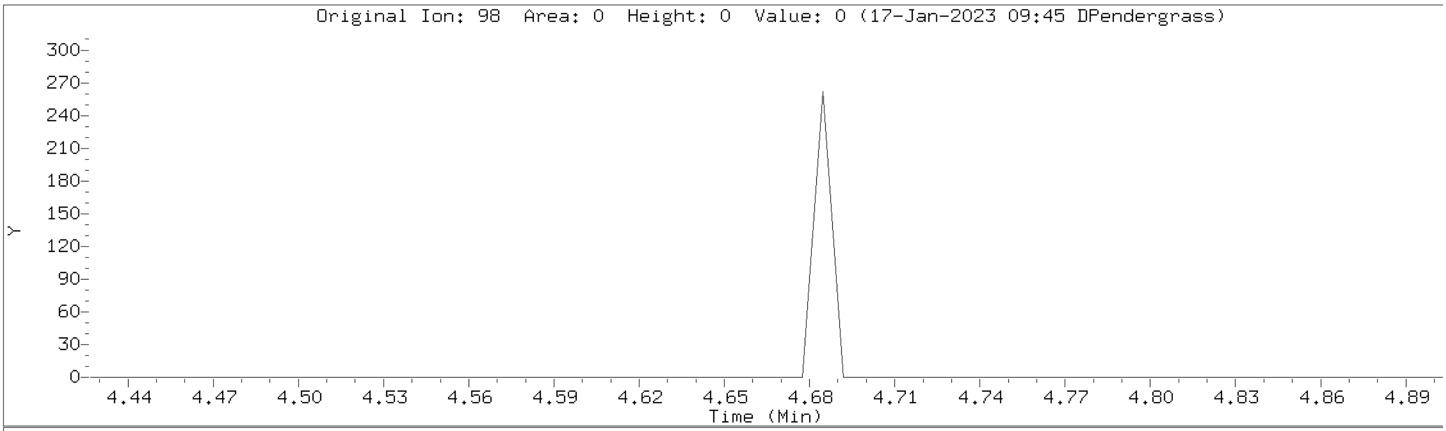
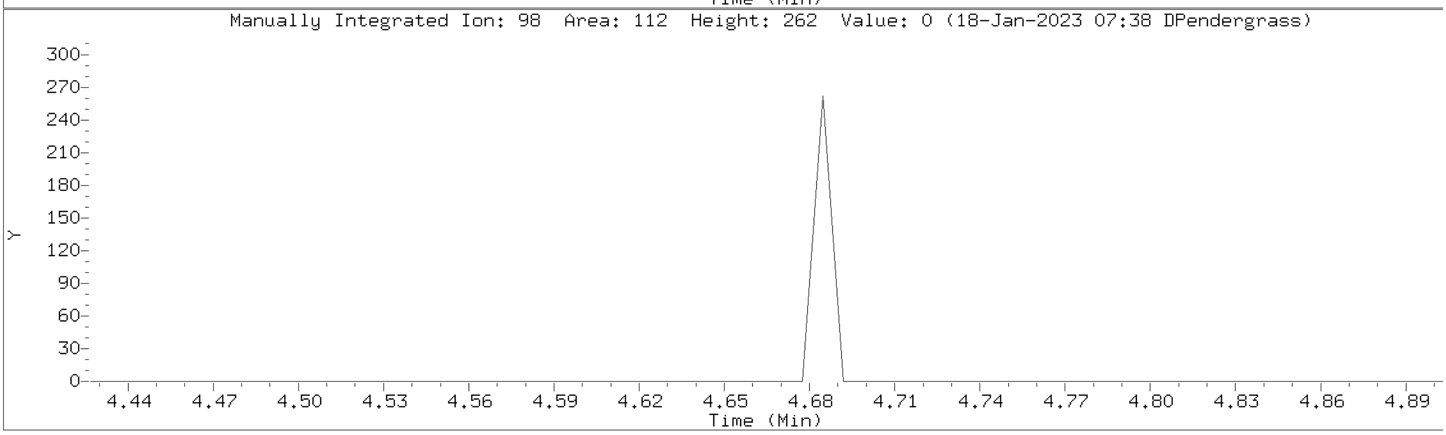
Lab Sample ID: 8260-CAL3





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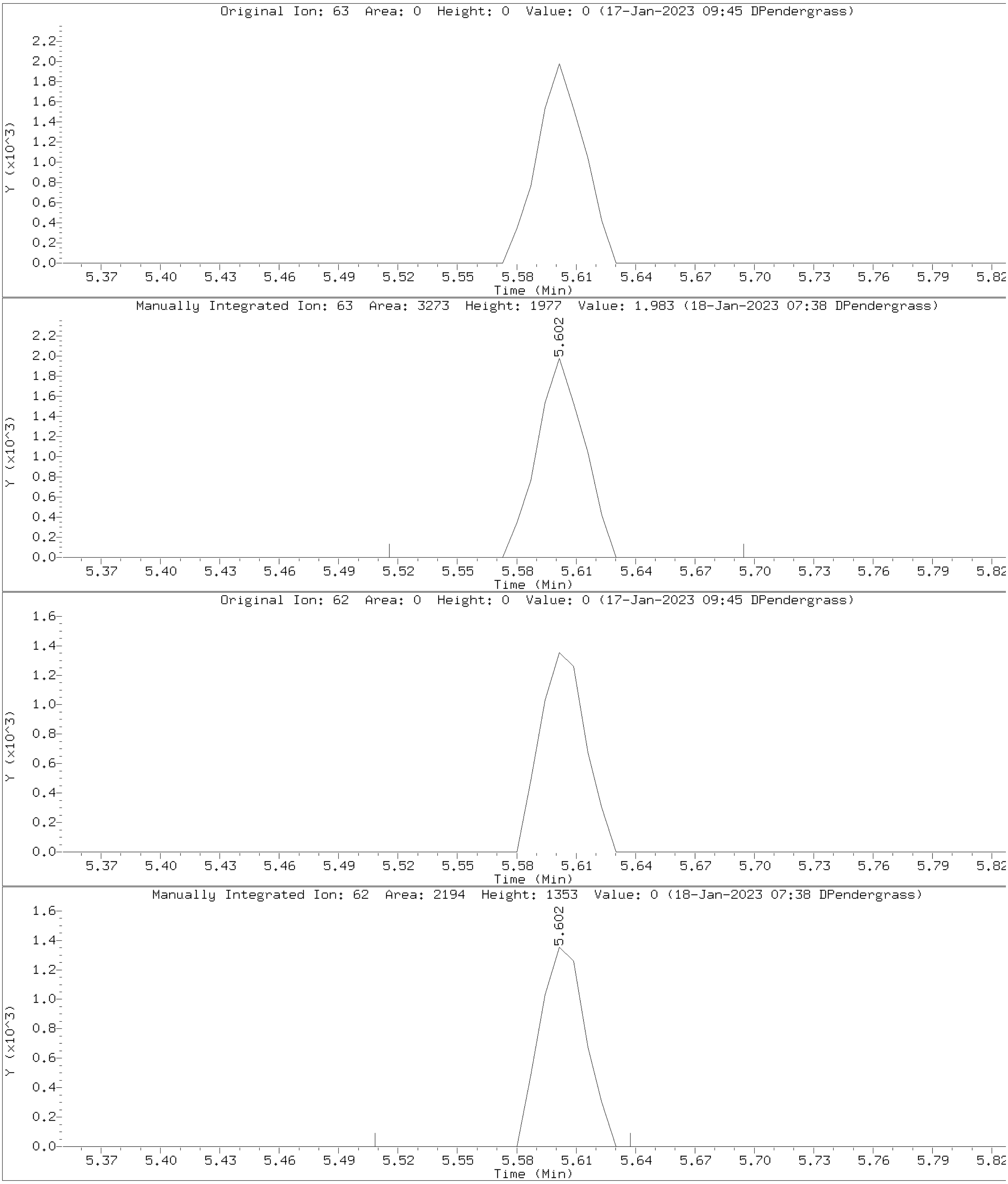
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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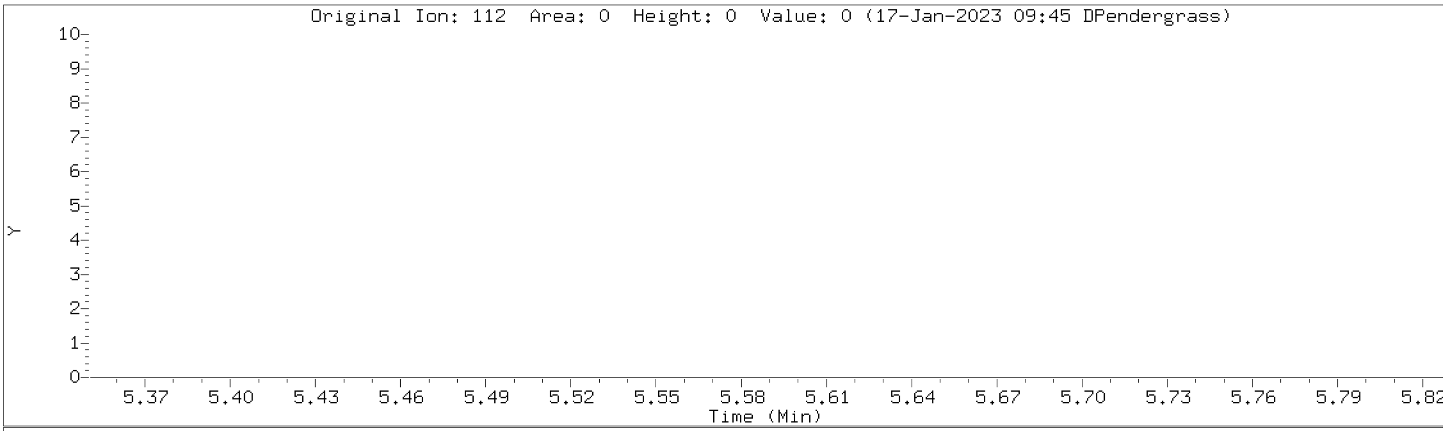

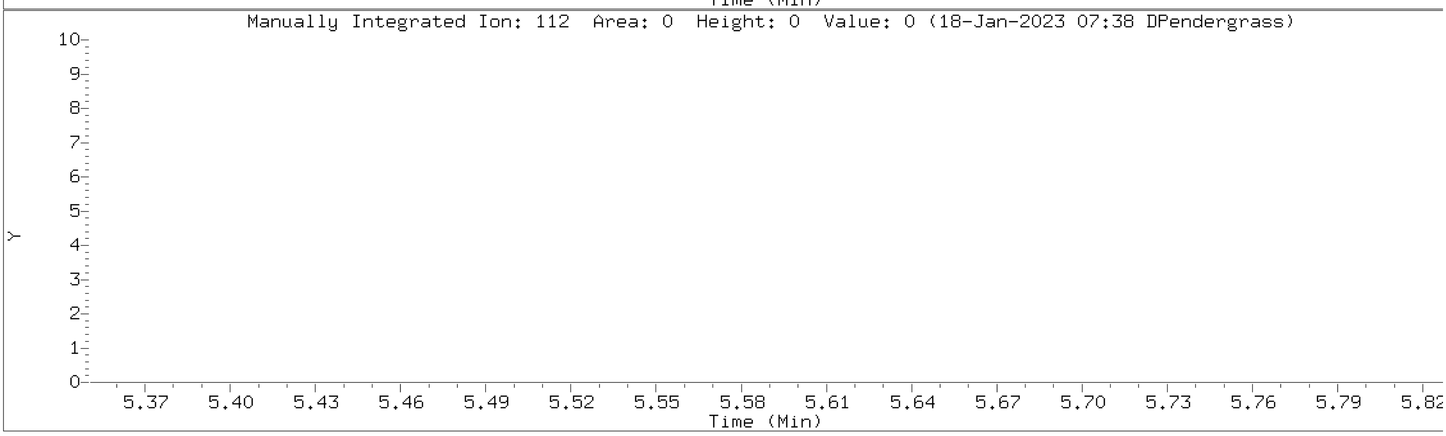

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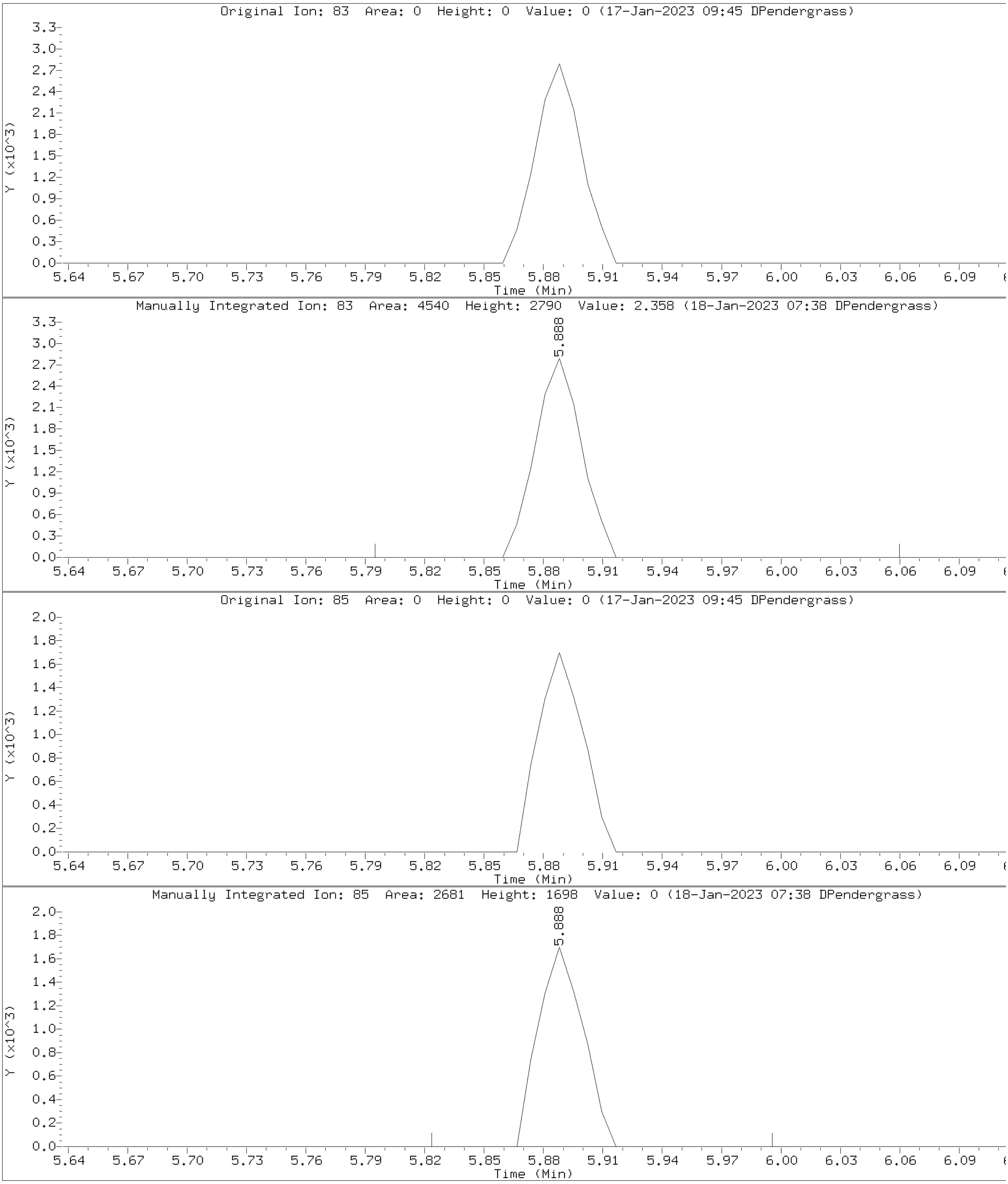
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4



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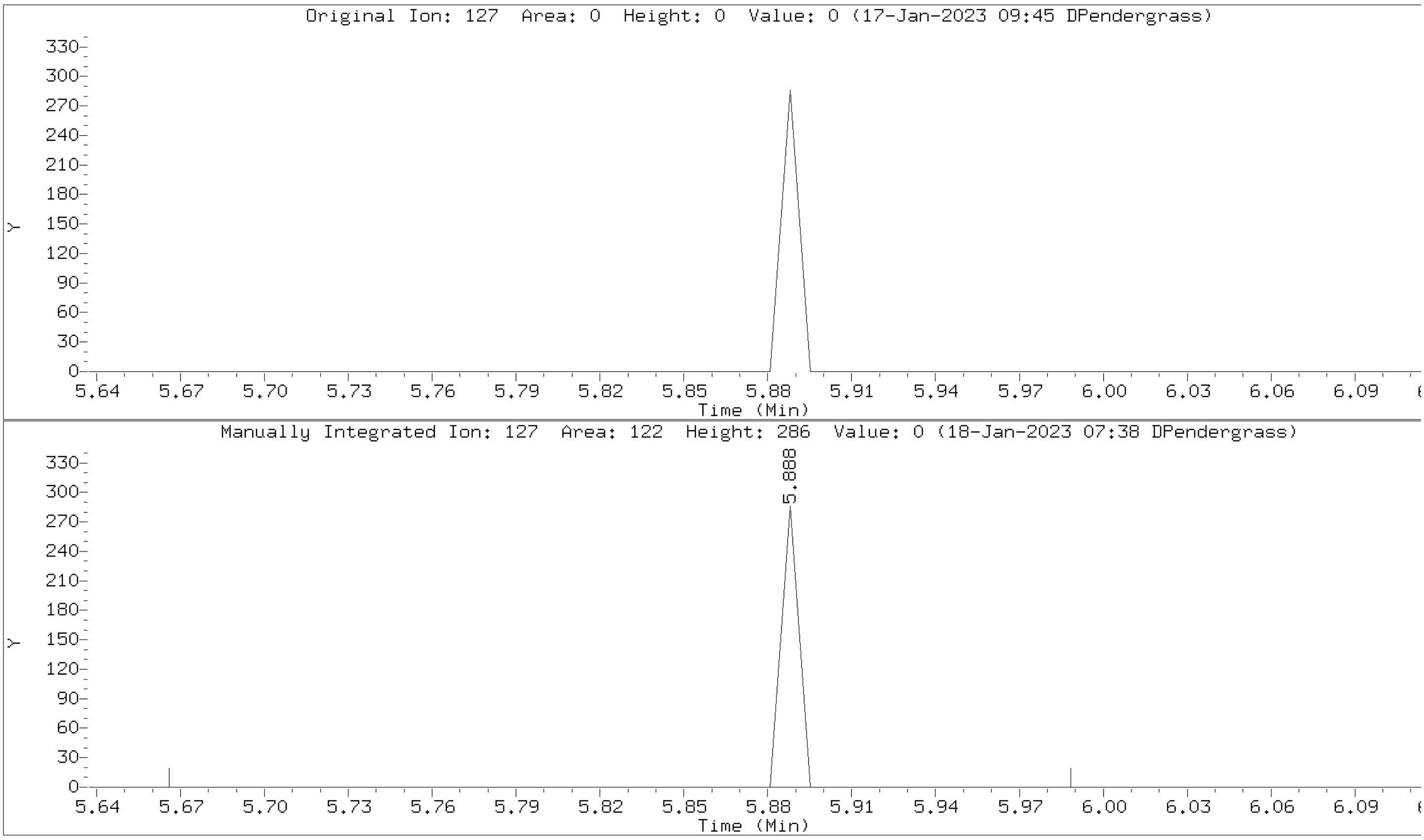

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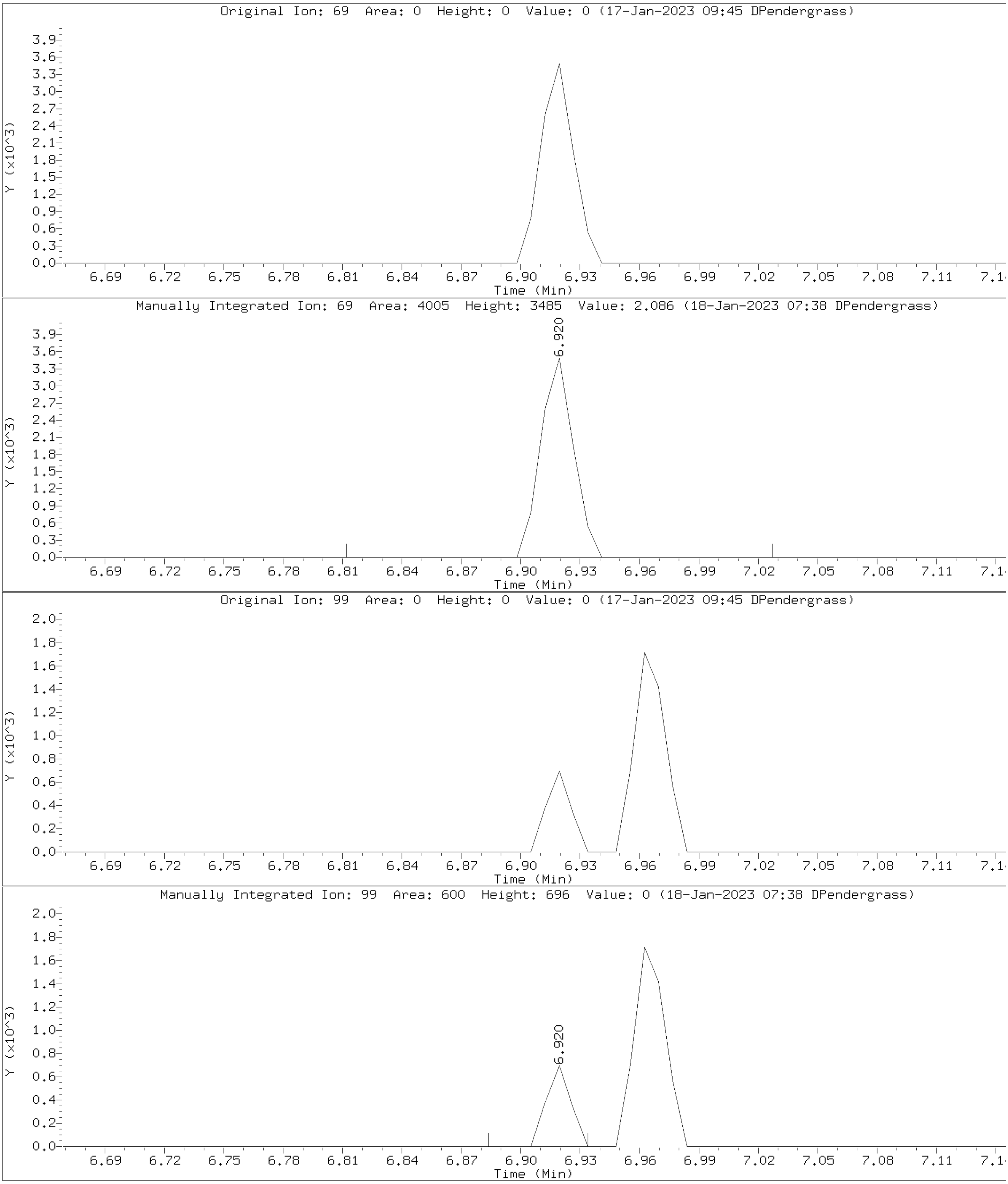
Lab Sample ID: 8260-CAL3

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



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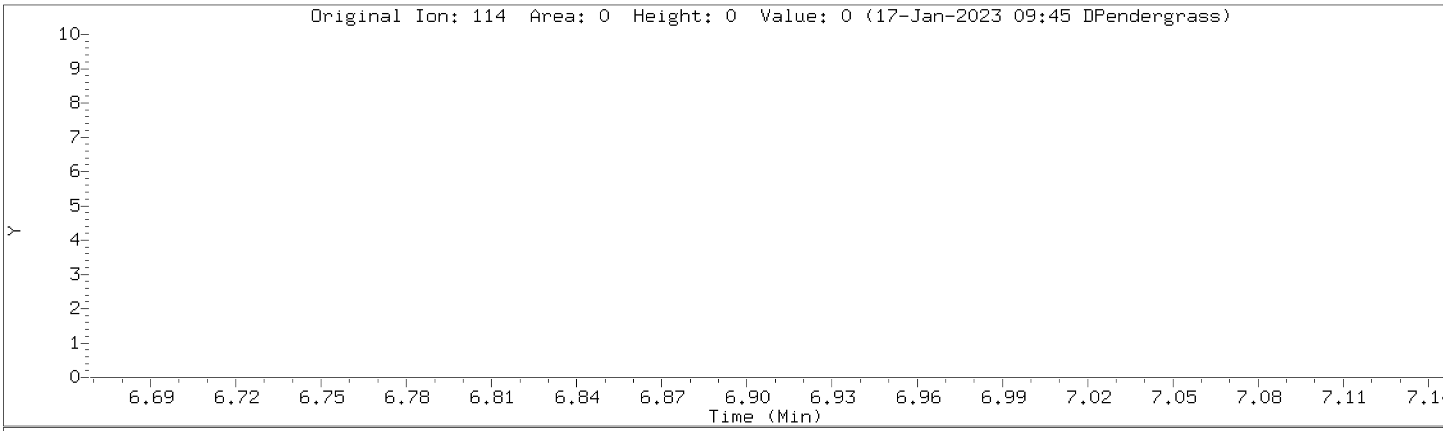

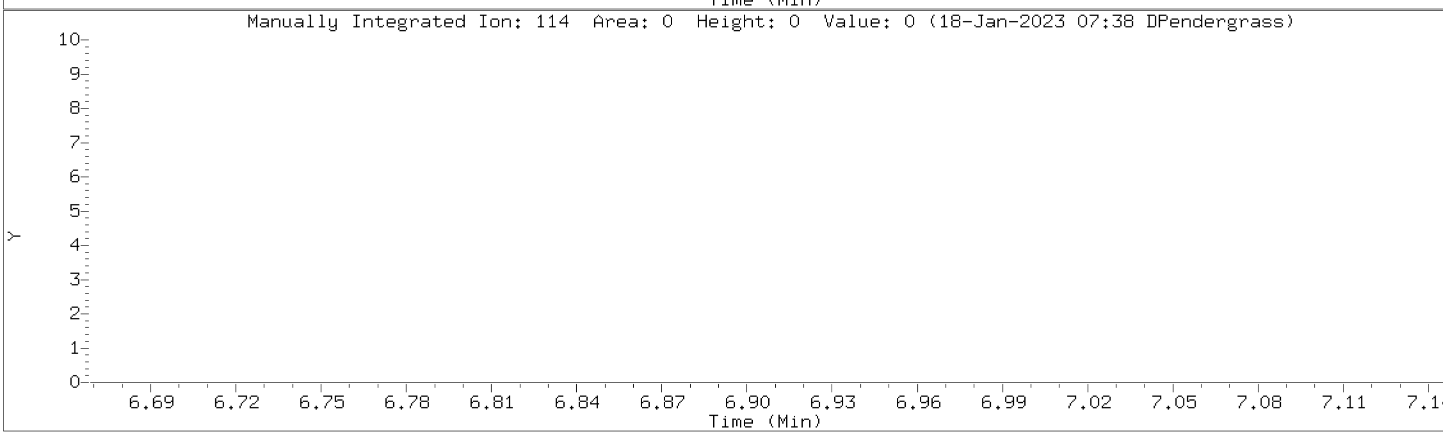

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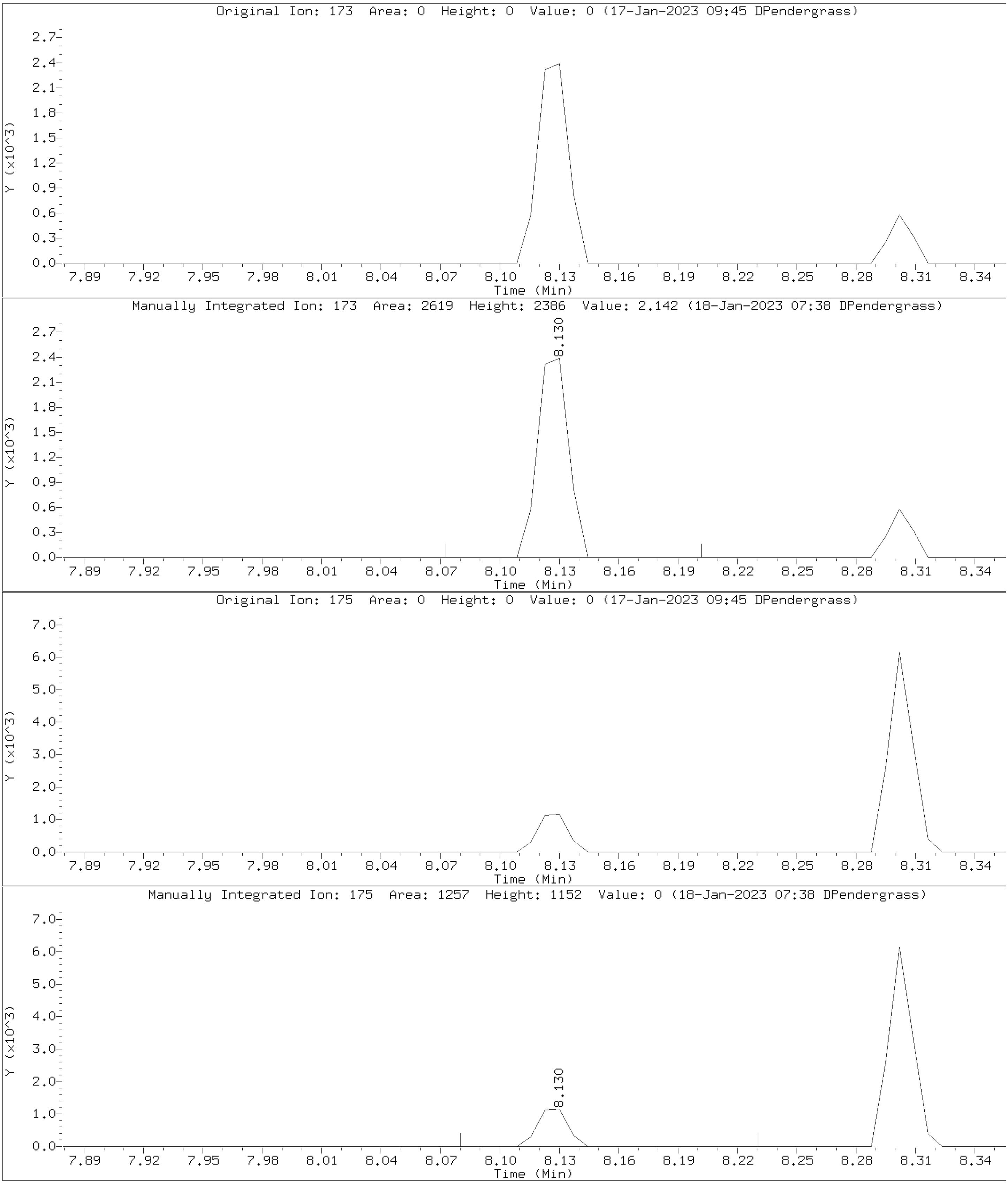
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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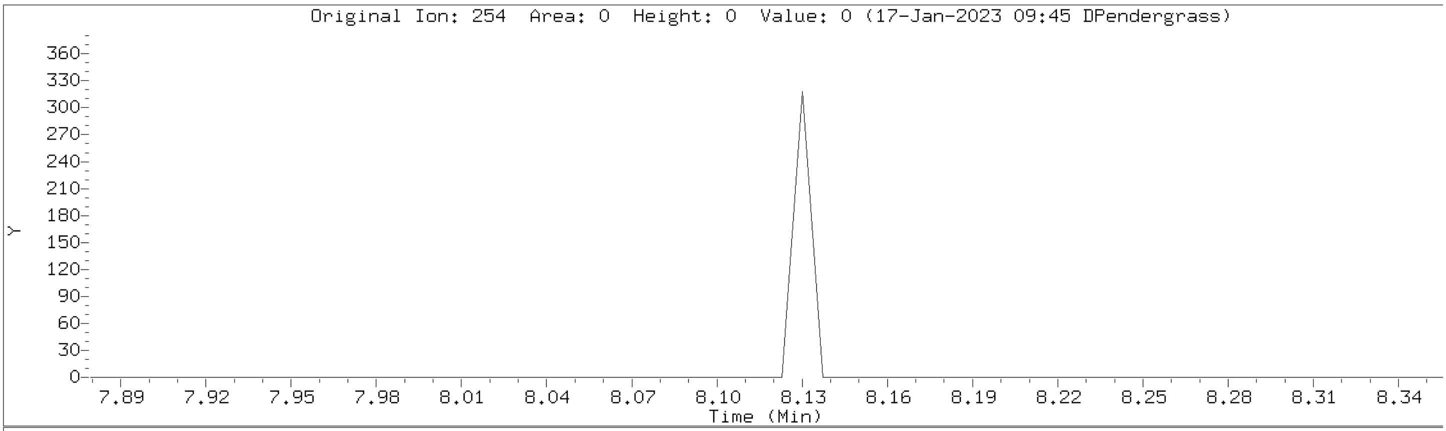

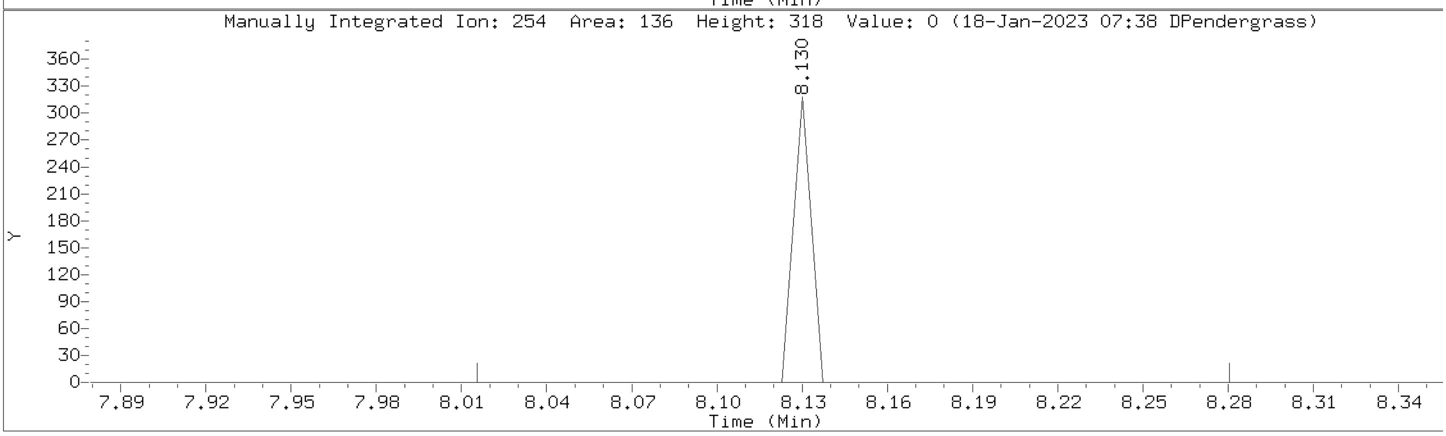

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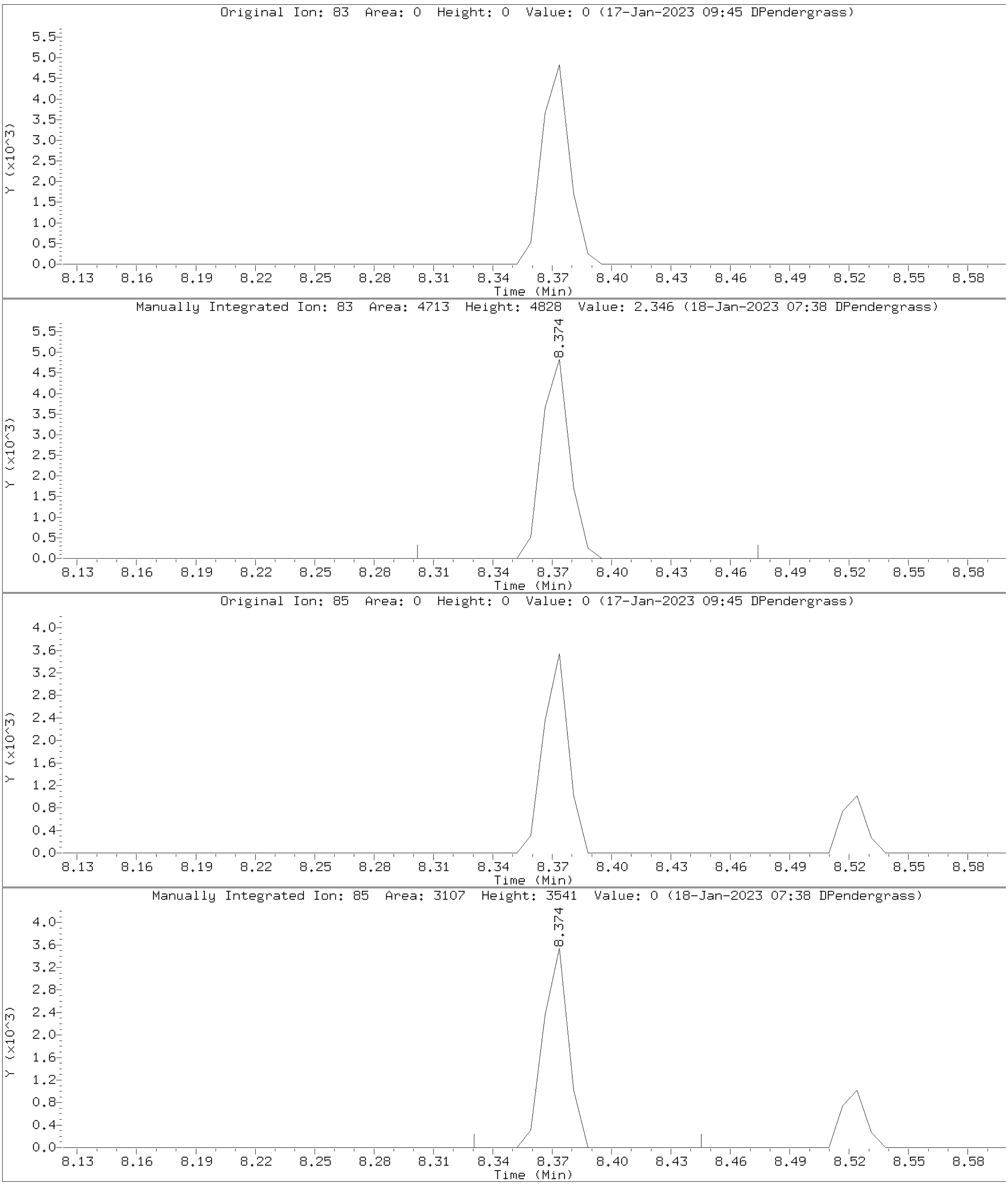
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5



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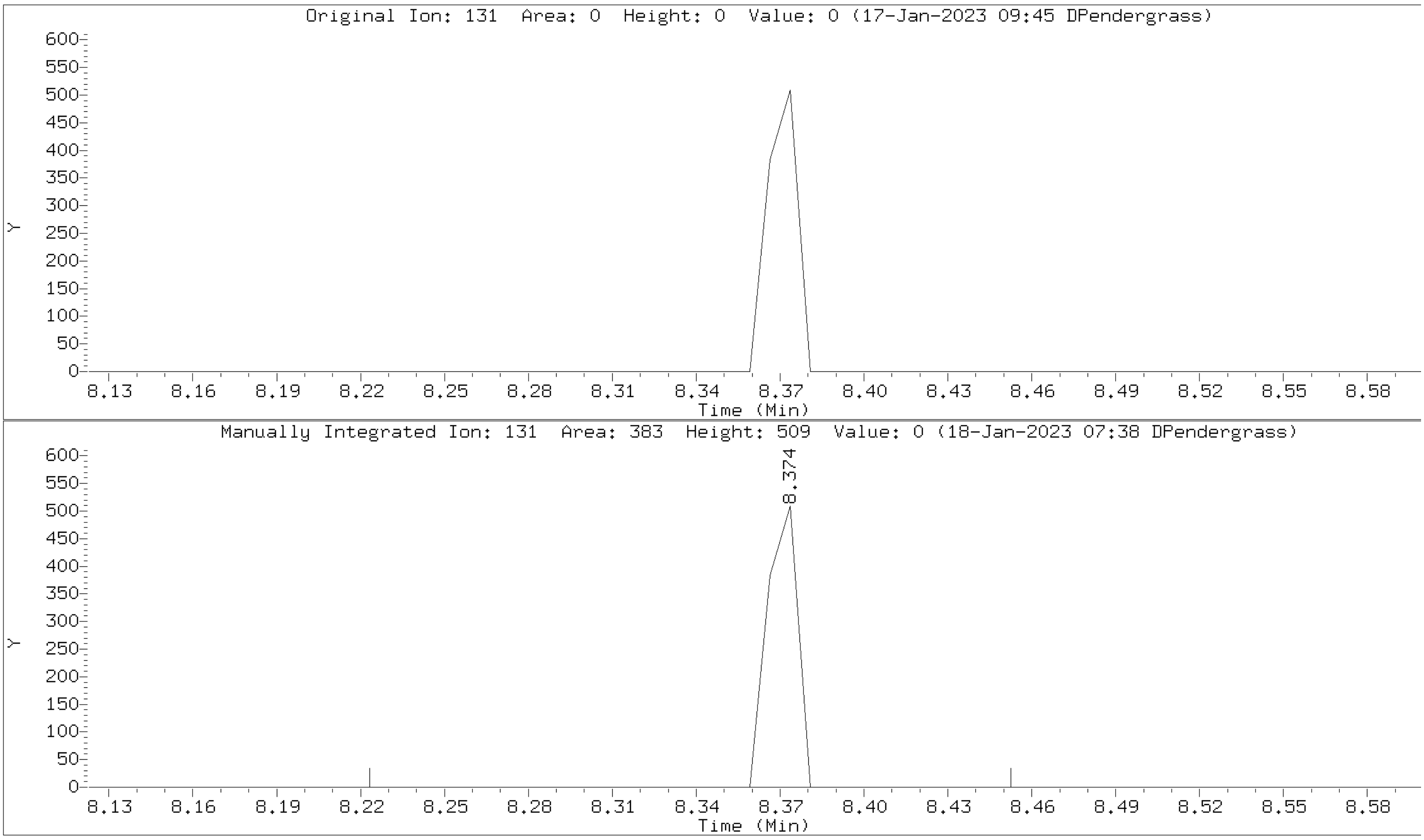

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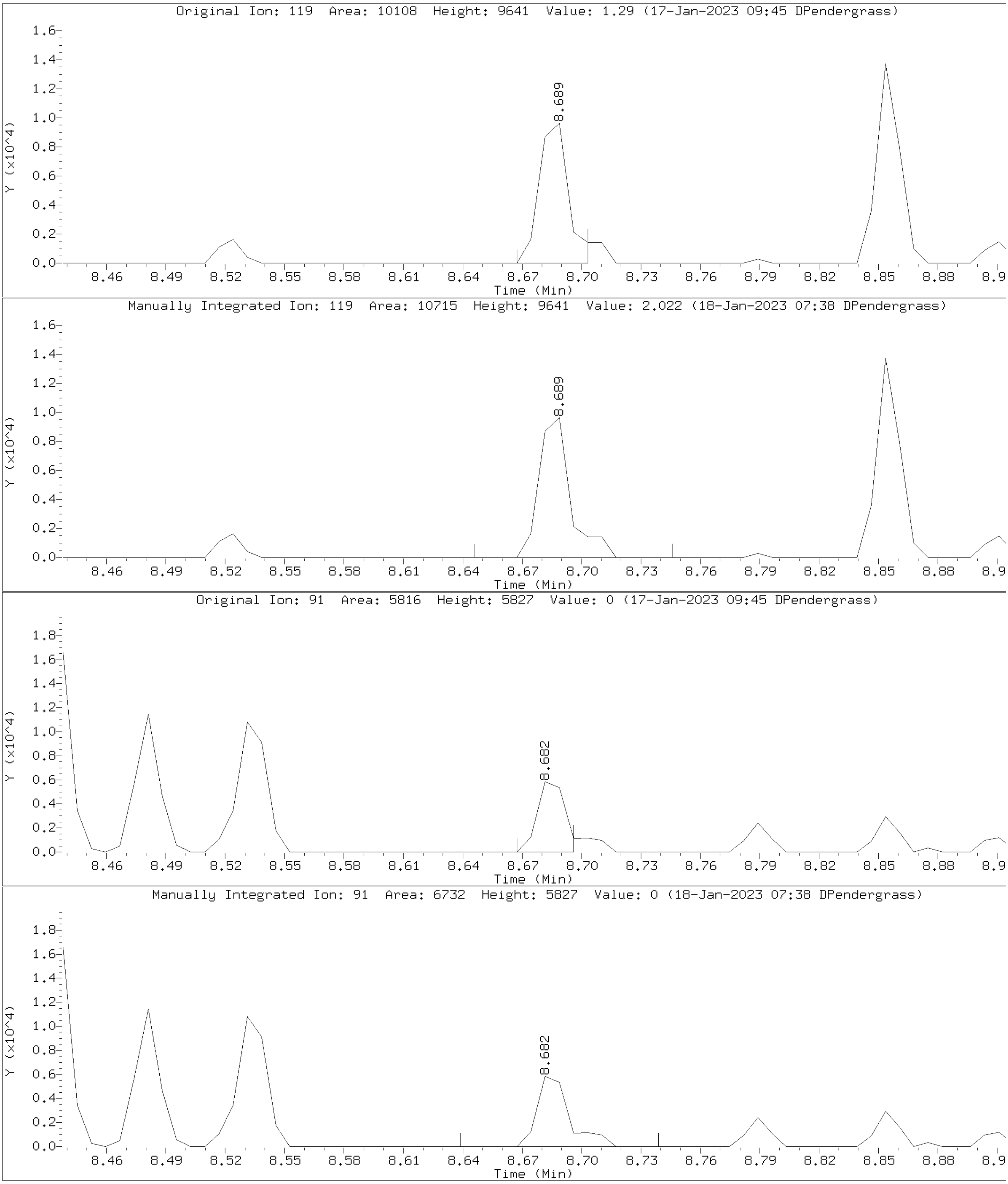
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butylbenzene   Review Code: GT
CAS Number: 98-06-6



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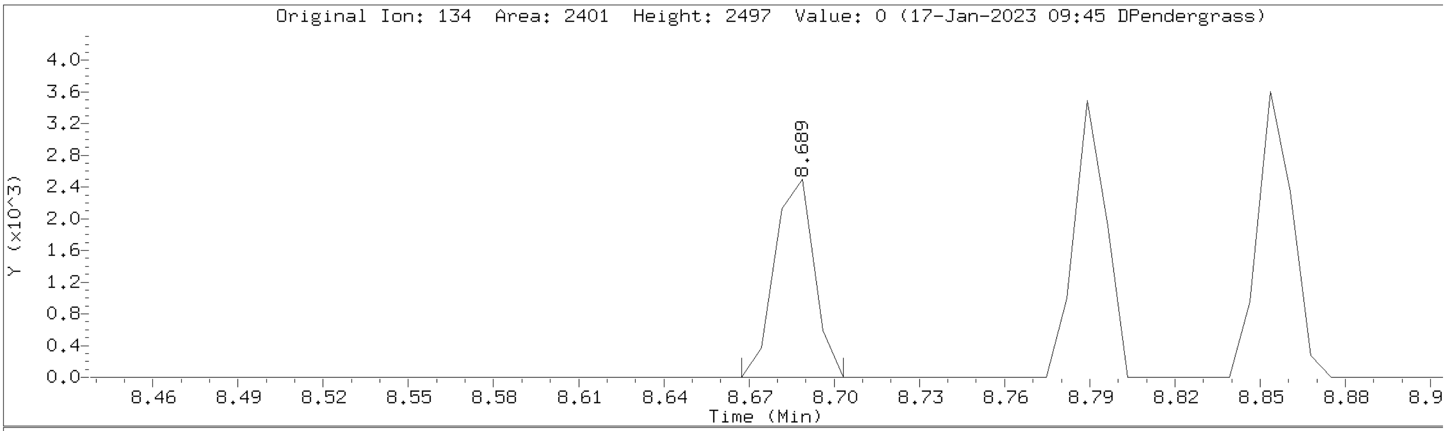

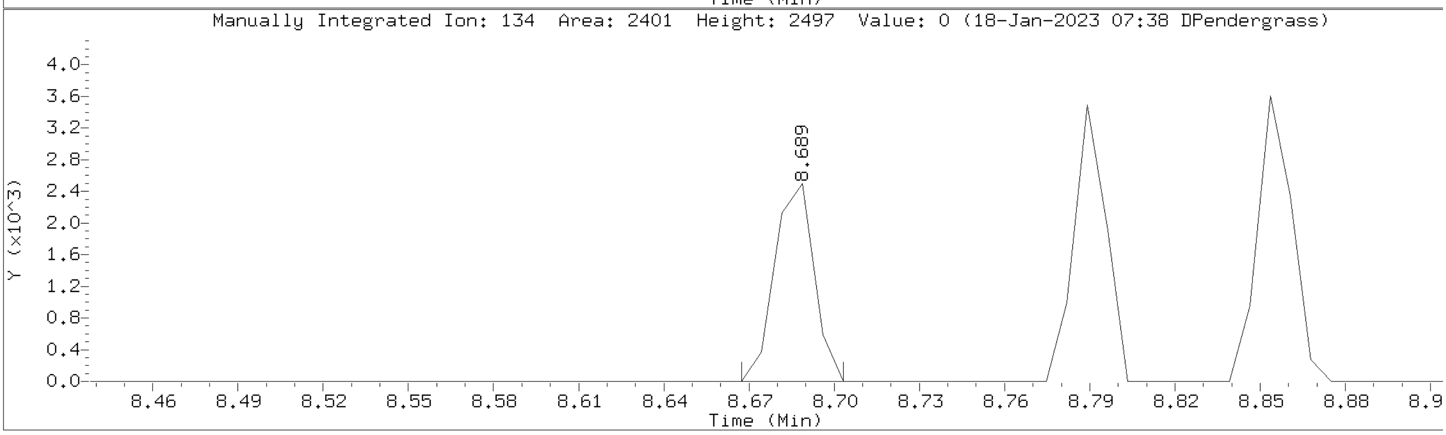

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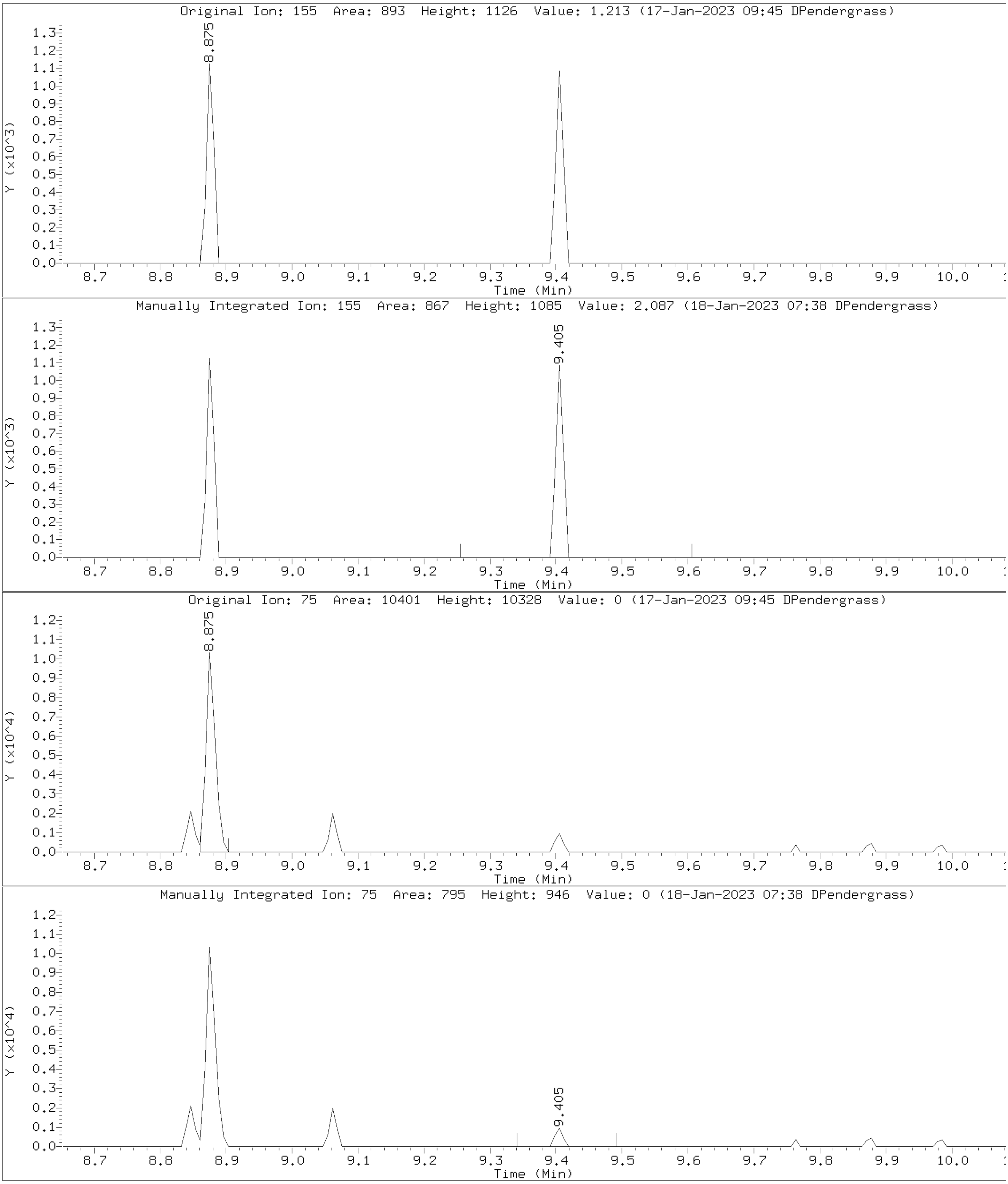
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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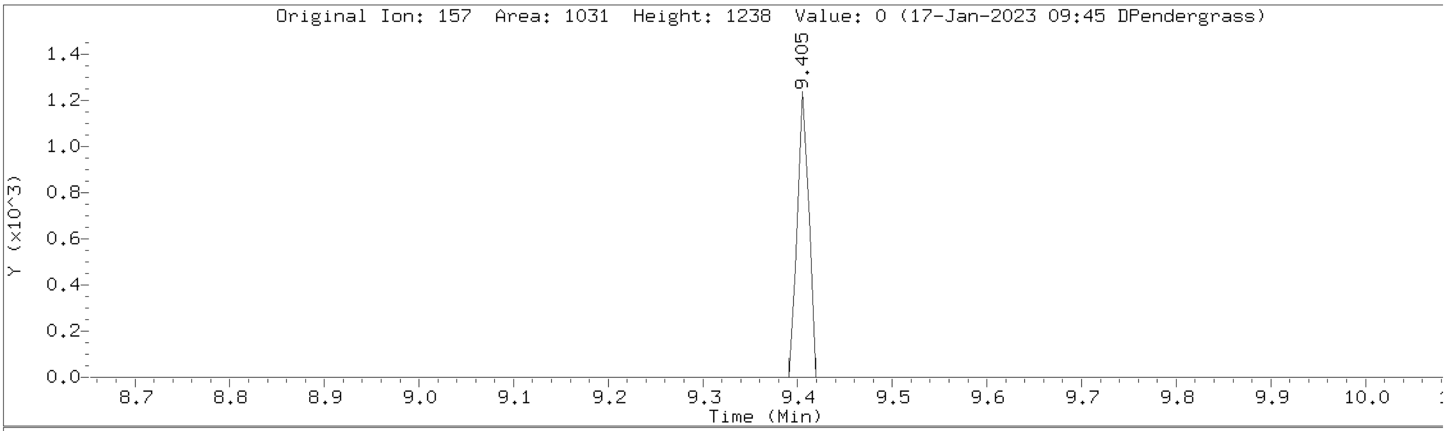

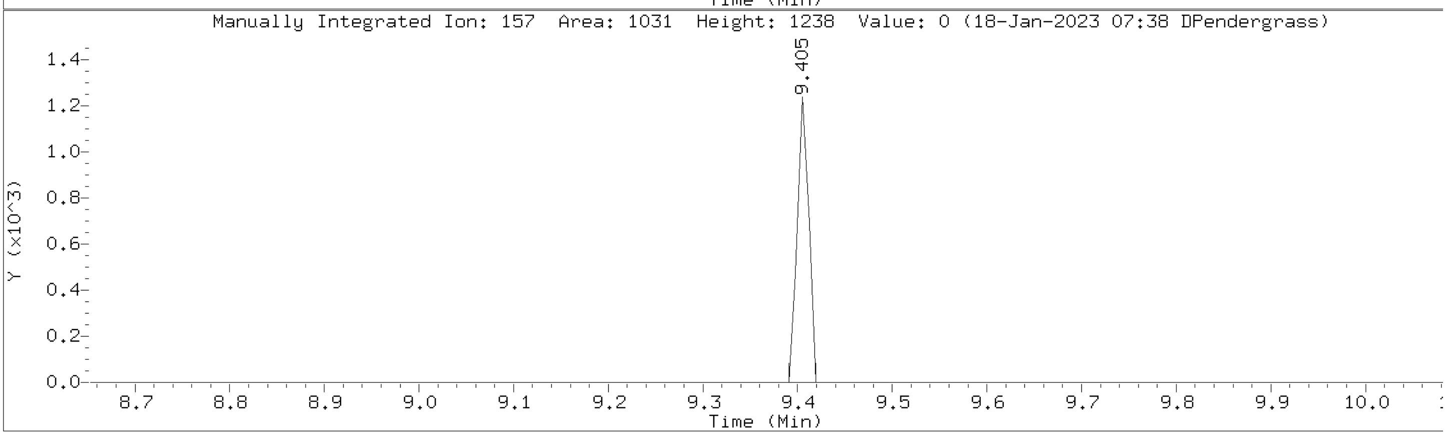

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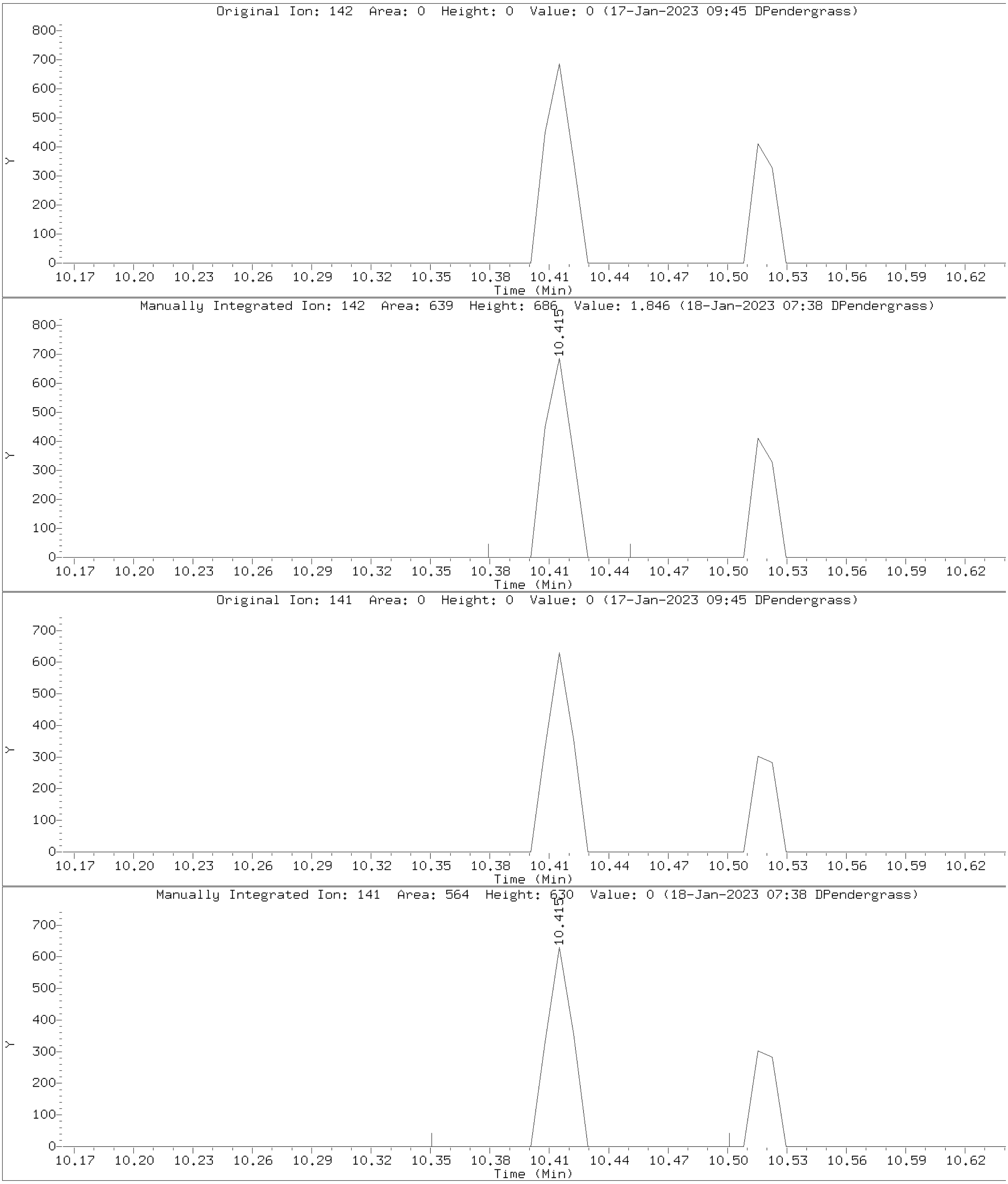
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 2,methyl-naphthalene   Review Code: NI
CAS Number:



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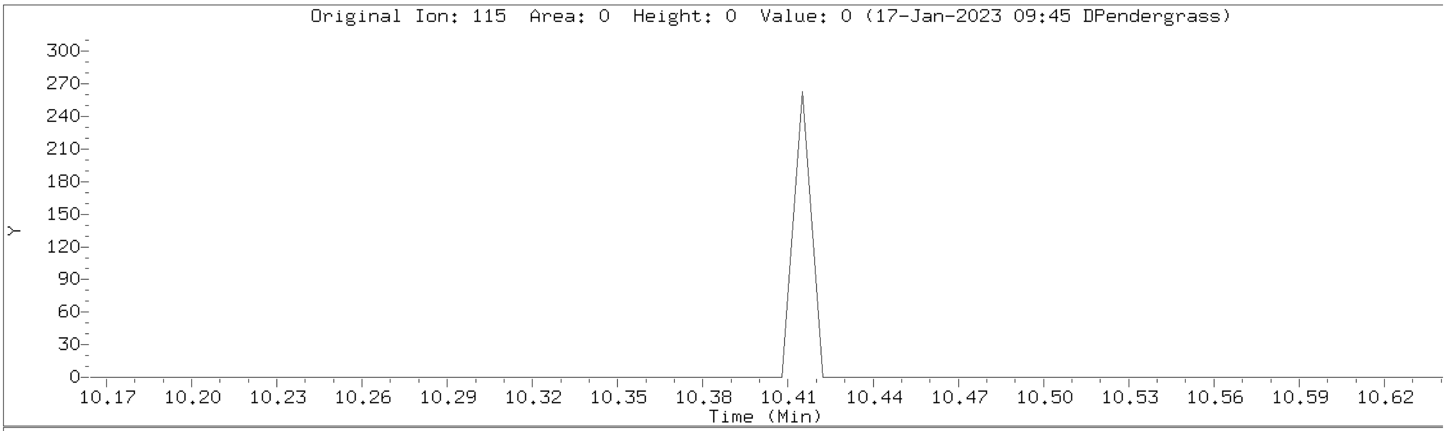

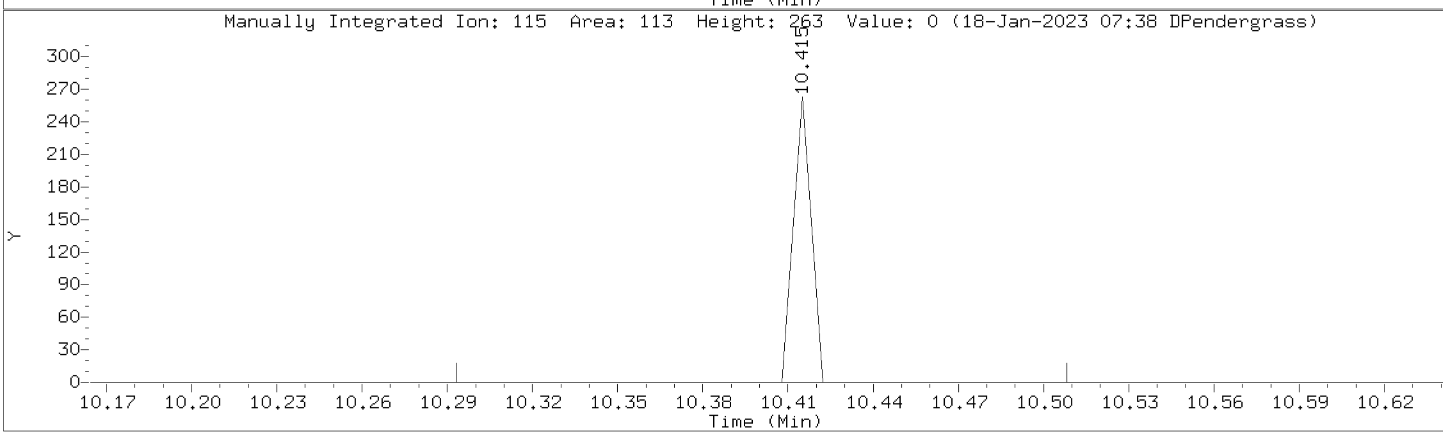

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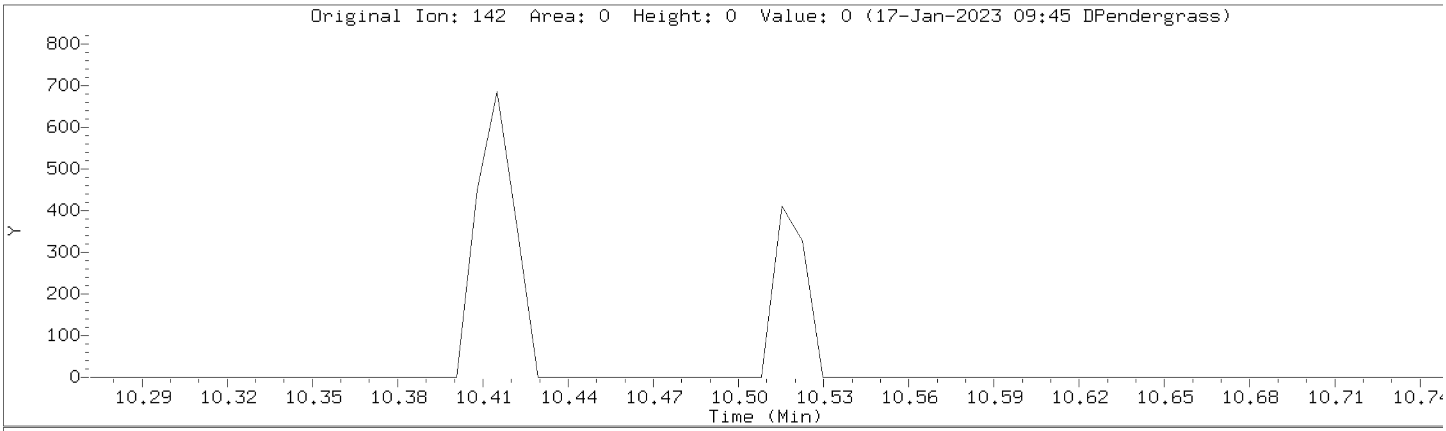
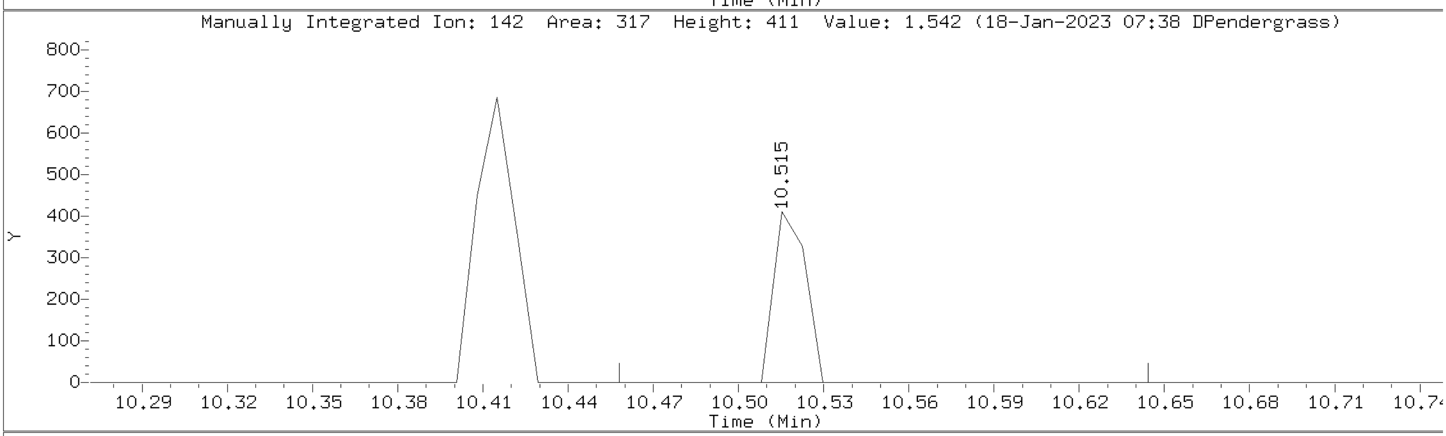
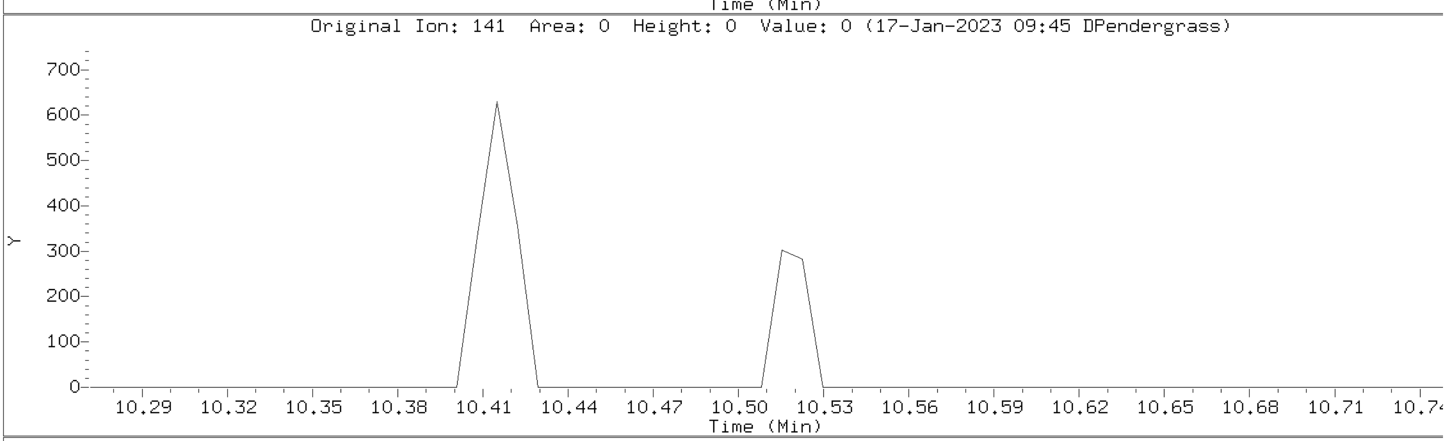
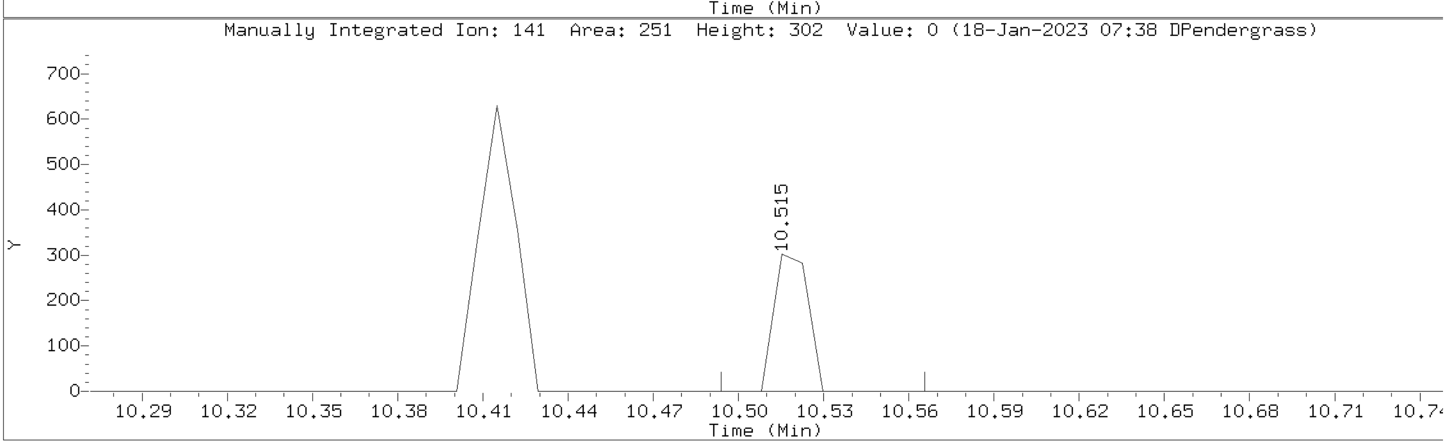
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: 1-Methylnaphthalene Review Code: NI
CAS Number: 90-12-0









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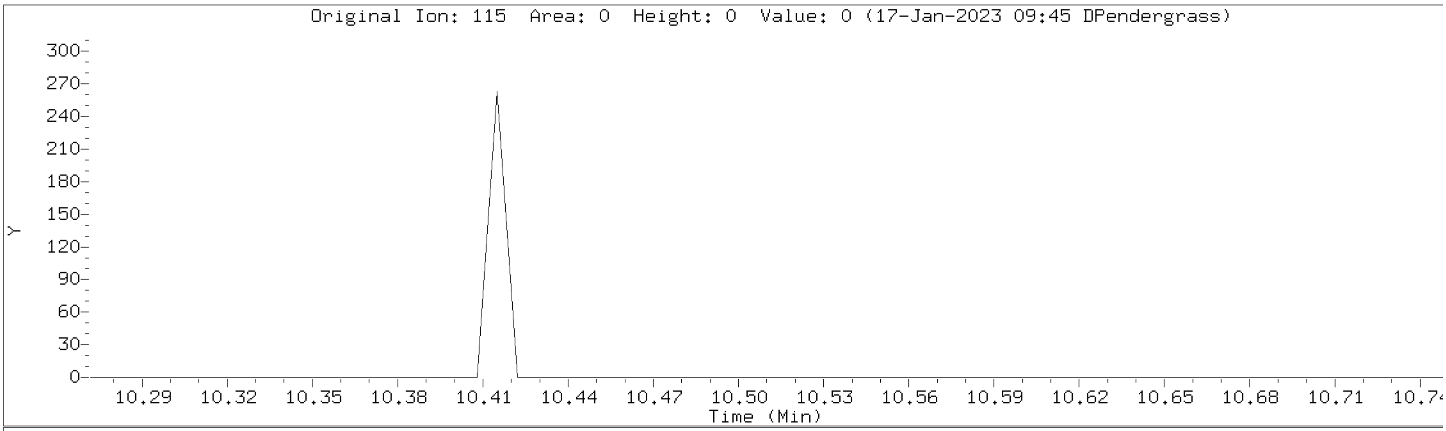

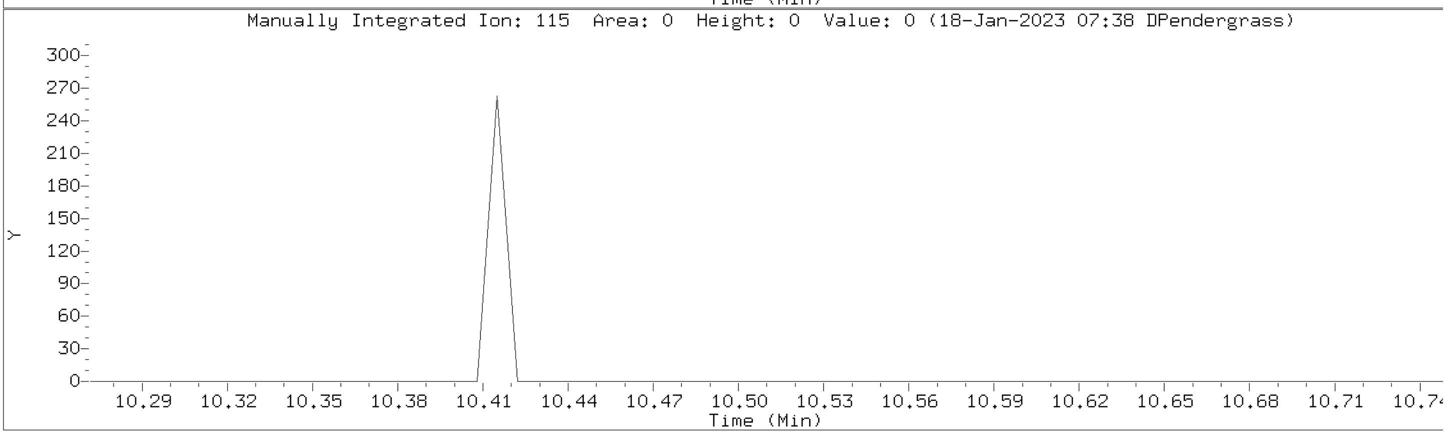

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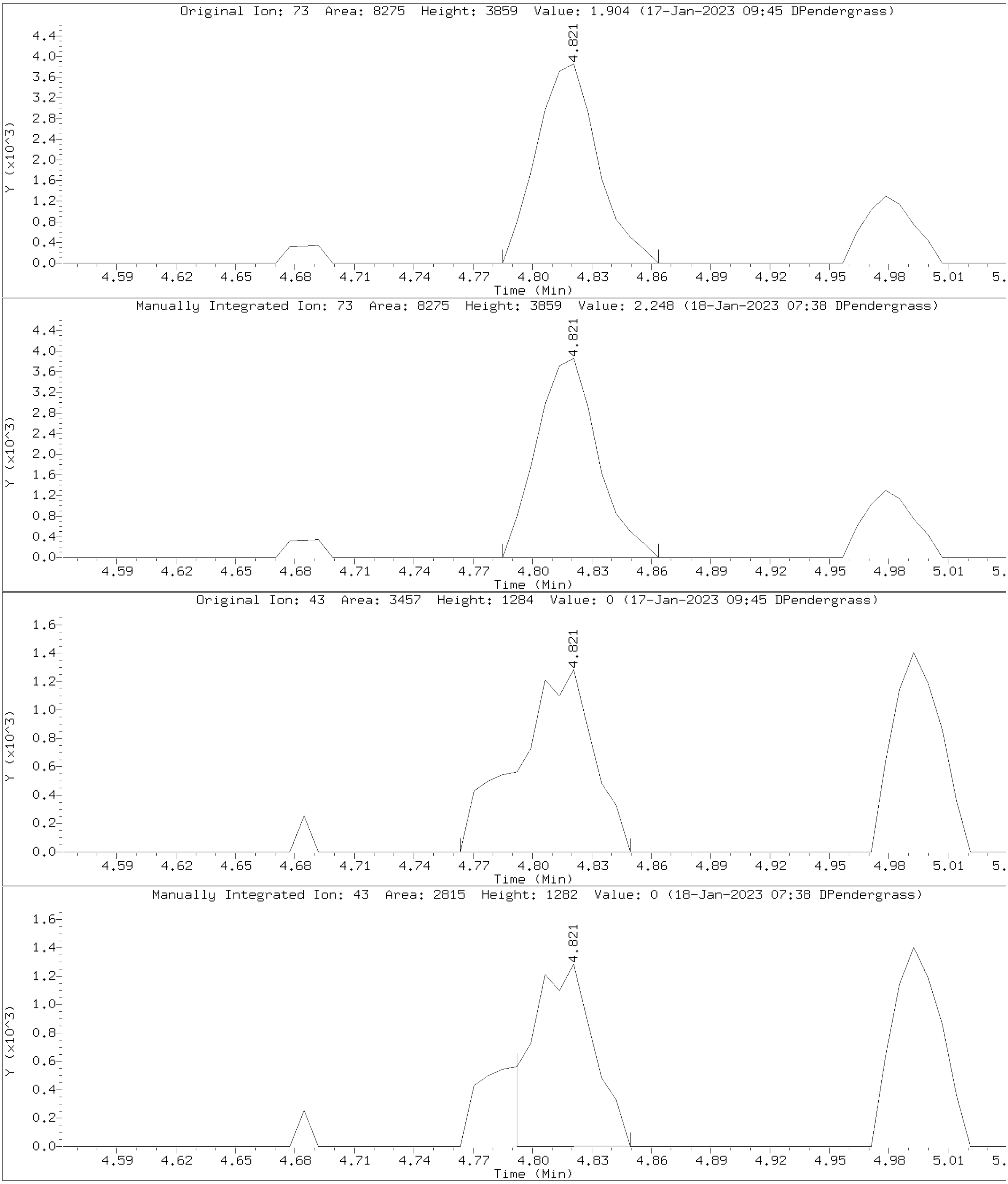
Injection Date: 16-JAN-2023 15:26
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL3

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b04.d Page 1
Report Date: 30-Jan-2023 10:23

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b04.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 16-JAN-2023 15:59
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal4,335764:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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	1.174	1.175	(0.236)	6945	5.00000	4.55(M)	NI
2 Chloromethane	50	1.296	1.296	(0.260)	6440	5.00000	4.26	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	7108	5.00000	4.30	
4 Bromomethane	94	1.539	1.533	(0.309)	3276	5.00000	4.24	
5 Chloroethane	64	1.590	1.590	(0.319)	4199	5.00000	4.46	
6 Trichlorofluoromethane	101	1.747	1.740	(0.351)	8167	5.00000	4.30	
7 Diethyl ether	74	1.912	1.912	(0.384)	4283	5.00000	4.80	
8 Acrolein	56	1.991	1.991	(0.399)	25188	100.000	89.8	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	6207	5.00000	4.89	
10 1,1-Dichloroethene	96	2.070	2.070	(0.415)	5941	5.00000	4.71	
11 Acetone	43	2.091	2.091	(0.420)	10039	25.0000	24.4	
12 Iodomethane	142	2.184	2.177	(0.438)	8120	5.00000	4.58	
13 Carbon Disulfide	76	2.241	2.234	(0.450)	20356	5.00000	4.84	
14 Acetonitrile	39	2.313	2.313	(0.464)	5860	25.0000	25.9(M)	WP
15 allyl chloride	41	2.313	2.314	(0.464)	12185	5.00000	5.43	
16 Methyl Acetate	43	2.320	2.320	(0.466)	28380	25.0000	25.6	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.494)	2958	25.0000	25.0(M)	LT
18 Methylene Chloride	84	2.406	2.399	(0.483)	10315	5.00000	5.47	
19 Acrylonitrile	53	2.585	2.585	(0.519)	12827	25.0000	25.0	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	19557	5.00000	4.85	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	6956	5.00000	4.83	
22 n-Hexane	57	2.872	2.872	(0.576)	8552	5.00000	4.84	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	3.001	2.994	(0.602)	11865	5.00000	4.83	
	24 Vinyl Acetate	43	3.037	3.037	(0.609)	48553	20.0000	18.3	
	25 Diisopropyl ether	45	3.065	3.065	(0.615)	20207	5.00000	5.00	
	26 chloroprene	53	3.094	3.094	(0.621)	9363	5.00000	4.81	
	27 Ethyl-tert-butyl ether	59	3.459	3.459	(0.694)	19402	5.00000	4.77	
	28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	9133	5.00000	4.75	
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	7911	5.00000	4.96	
	30 2-Butanone	43	3.624	3.624	(0.727)	15965	25.0000	25.6	
	31 Ethyl Acetate	88	3.717	3.710	(0.746)	1590	25.0000	25.0	
	32 Propionitrile	54	3.696	3.689	(0.741)	4409	25.0000	24.6(M)	WP
	33 Methacrylonitrile	41	3.889	3.889	(0.780)	20586	25.0000	25.8	
	34 Bromochloromethane	49	3.903	3.903	(0.783)	5465	5.00000	5.08	
	35 Tetrahydrofuran	42	3.989	3.982	(0.800)	11387	25.0000	25.3	
	36 Chloroform	83	4.011	4.011	(0.805)	12137	5.00000	4.89	
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	53724	50.0000	52.1	
	38 1,1,1-Trichloroethane	97	4.240	4.240	(0.851)	9804	5.00000	4.78	
	39 Cyclohexane	56	4.312	4.312	(0.865)	10884	5.00000	5.03	
	40 Carbon Tetrachloride	117	4.441	4.441	(0.891)	8783	5.00000	4.91	
	41 1,1-Dichloropropene	75	4.441	4.433	(0.891)	8757	5.00000	4.95	
	42 Isobutyl alcohol	43	4.577	4.577	(0.918)	920	25.0000	22.1	
	43 Benzene	78	4.670	4.670	(0.937)	30116	5.00000	4.94	
	44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	8748	5.00000	4.97	
	45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.958)	16451	5.00000	4.77	
	46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	19202	5.00000	4.83(M)	LT
*	47 Fluorobenzene	96	4.985	4.985	(1.000)	226855	50.0000		
	48 Trichloroethene	95	5.379	5.379	(1.079)	7096	5.00000	4.65	
	49 Methylcyclohexane	55	5.579	5.587	(1.119)	7643	5.00000	4.73	
	50 1,2-Dichloropropane	63	5.601	5.601	(1.124)	7073	5.00000	4.64(M)	NI
	51 Dibromomethane	93	5.723	5.716	(1.148)	4199	5.00000	4.84	
	52 Methyl methacrylate	69	5.759	5.759	(1.155)	5312	5.00000	4.80	
	53 1,4-Dioxane	88	5.372	5.071	(1.078)	0	100.000	(M)	WP
	54 Bromodichloromethane	83	5.887	5.888	(1.181)	9008	5.00000	4.86	
	55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	21482	25.0000	23.7	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.832)	11595	5.00000	4.79	
	57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	35590	25.0000	25.2	
$	58 Toluene-d8	98	6.589	6.589	(0.864)	225982	50.0000	50.6	
	59 Toluene	91	6.647	6.647	(0.871)	32426	5.00000	4.88	
	60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	10407	5.00000	4.87	
	61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	8741	5.00000	4.51	
	62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	5452	5.00000	4.91	
	63 Tetrachloroethene	166	7.077	7.077	(0.928)	8434	5.00000	4.69	
	64 1,3-Dichloropropane	76	7.091	7.091	(0.930)	11497	5.00000	4.86	
	65 2-Hexanone	43	7.162	7.163	(0.939)	26387	25.0000	25.3	
	66 Dibromochloromethane	129	7.248	7.248	(0.950)	7352	5.00000	4.70	
	67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	7084	5.00000	4.93	
*	68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	172293	50.0000		
	69 Chlorobenzene	112	7.650	7.650	(1.003)	20912	5.00000	4.81	
	70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	7330	5.00000	4.89	
	71 Ethylbenzene	106	7.721	7.721	(1.012)	10723	5.00000	4.73	
	72 m&p-Xylene	106	7.793	7.793	(1.022)	13475	5.00000	4.69	
	73 o-Xylene	106	8.015	8.022	(1.051)	12886	5.00000	4.86	
	74 Styrene	104	8.022	8.022	(1.052)	21298	5.00000	4.73	
	75 Bromoform	173	8.129	8.130	(0.916)	5786	5.00000	4.77(M)	NI
	76 Isopropylbenzene	105	8.223	8.223	(1.078)	30859	5.00000	4.68	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.088)	82026	50.0000	50.5	
78 Bromobenzene	77	8.380	8.380	(1.099)	15932	5.00000	4.85	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	9849	5.00000	4.94	
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	3153	5.00000	5.02	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.101)	2597	5.00000	5.02	
82 n-Propylbenzene	91	8.437	8.438	(0.951)	36295	5.00000	4.75	
83 2-Chlorotoluene	91	8.480	8.481	(0.956)	21992	5.00000	4.73	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	24824	5.00000	4.69	
85 4-Chlorotoluene	126	8.538	8.538	(0.962)	8286	5.00000	4.74	
86 tert-Butylbenzene	119	8.688	8.689	(0.979)	24673	5.00000	4.69(M)	GT
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	25502	5.00000	4.75	
88 sec-Butylbenzene	105	8.788	8.789	(0.990)	30246	5.00000	4.73	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	15138	5.00000	4.77	
90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	26517	5.00000	4.75	
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.874	(1.000)	94775	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	15355	5.00000	4.71	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	25502	5.00000	4.75	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	21147	5.00000	4.66	
95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	14375	5.00000	4.76	
96 Hexachloroethane	201	9.190	9.190	(1.036)	3918	5.00000	4.47	
97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.060)	1949	5.00000	4.73(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	7960	5.00000	4.74	
99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	3910	5.00000	4.77	
100 Naphthalene	128	9.877	9.877	(1.113)	22806	5.00000	4.81	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	6962	5.00000	5.07	
102 2,methyl-naphthalene	142	10.414	10.415	(1.174)	1721	5.00000	5.01	
103 1-Methylnaphthalene	142	10.522	10.522	(1.186)	971	5.00000	4.76	

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.
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\50mvcb.i\b011623cal.b\b04.d

Date : 16-JAN-2023 15:59

Client ID: 8260-CAL4

Instrument: 50mvcb.i

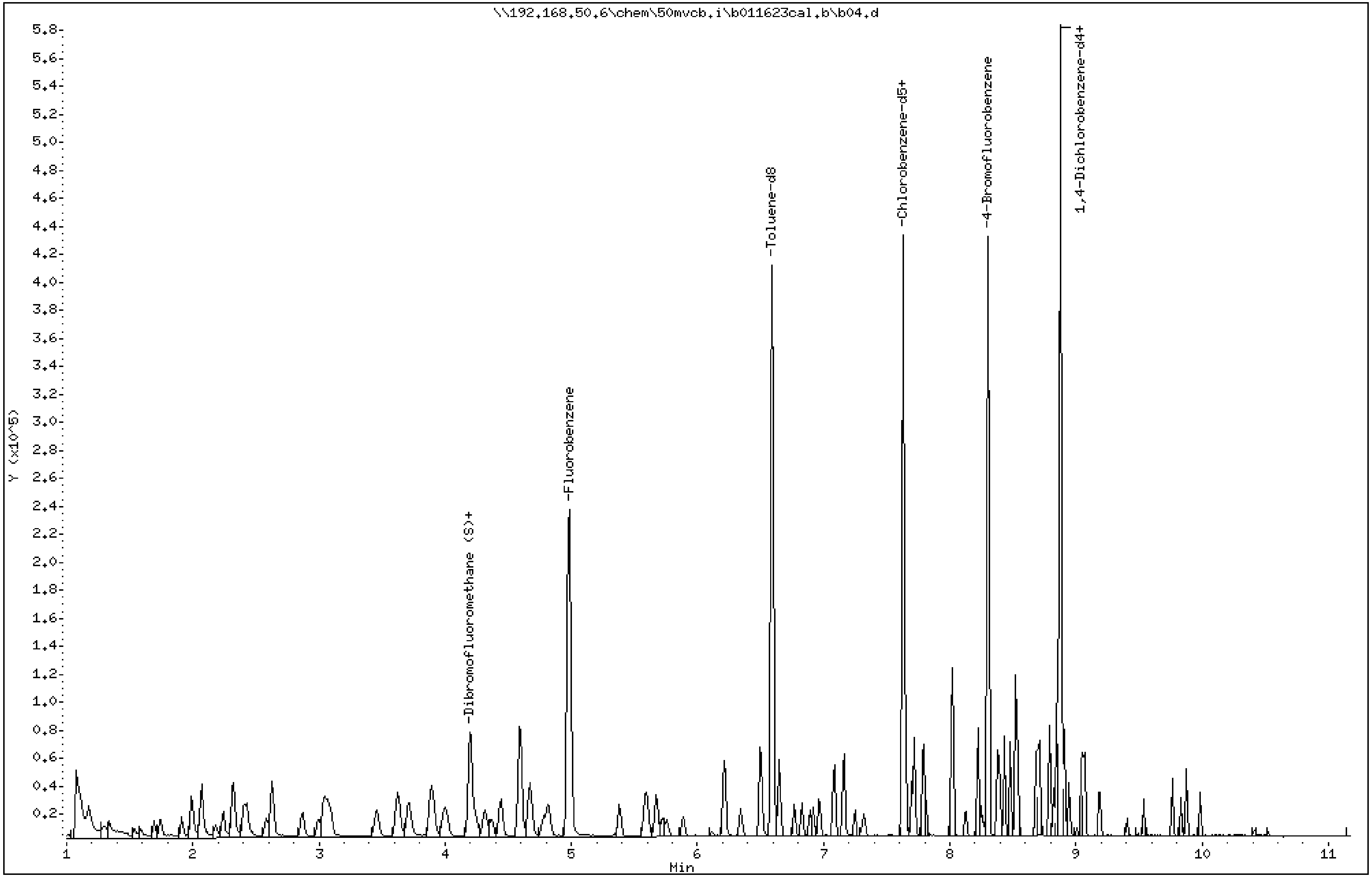
Sample Info: 8260-CAL4,335764:0

Purge Volume: 5.0

Operator: DAP

Column phase: DB-624

Column diameter: 0.18



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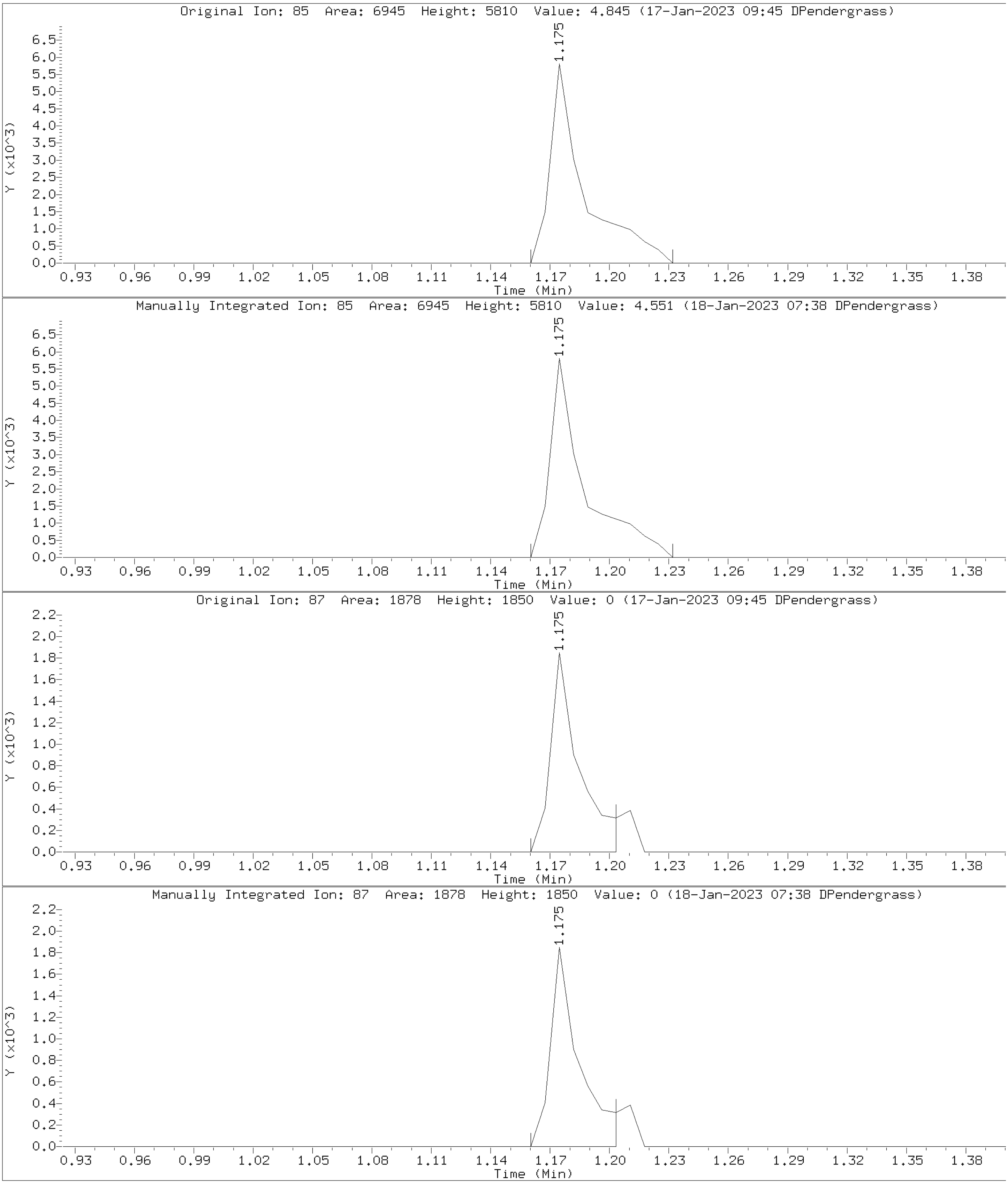
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 74-87-3



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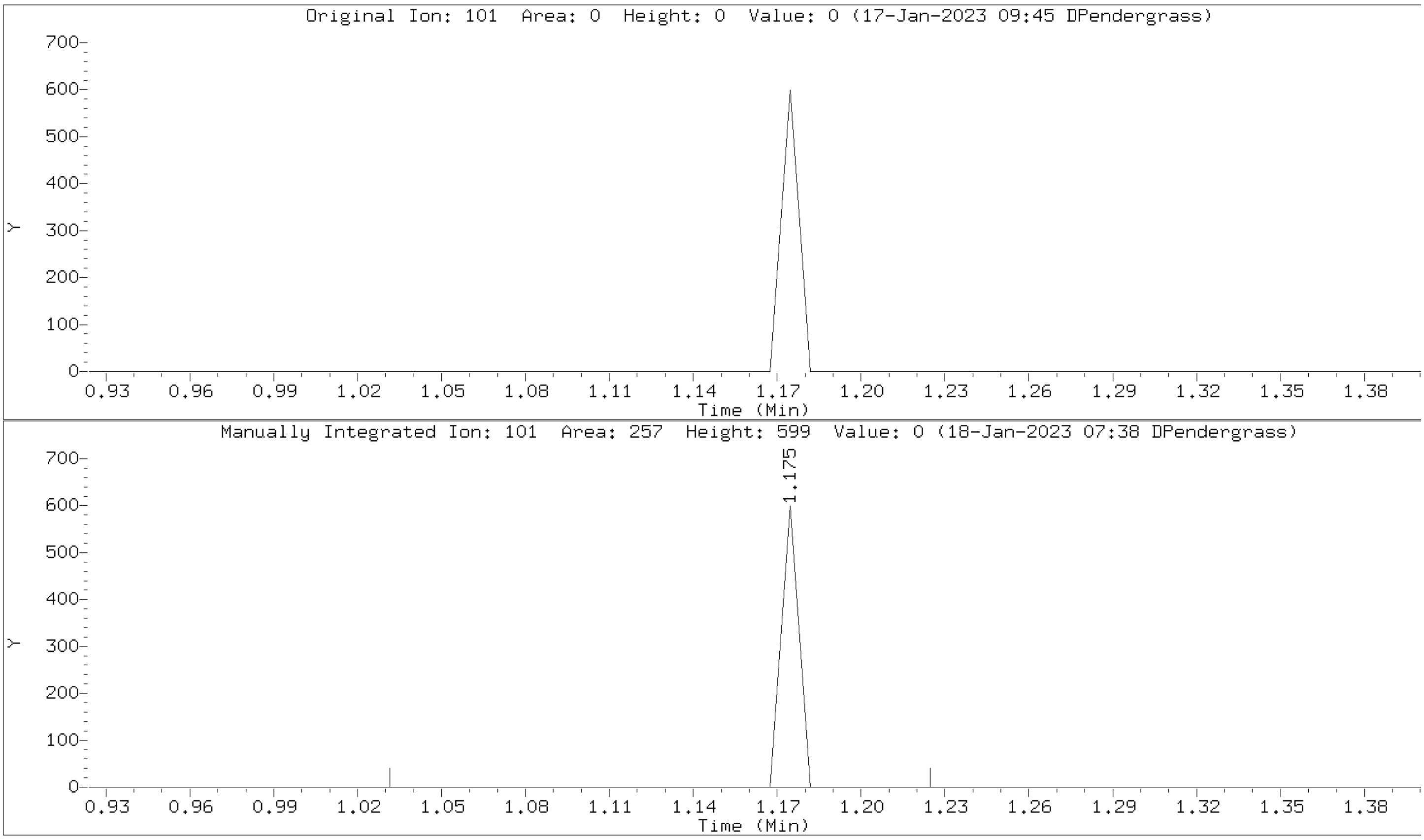
Lab Sample ID: 8260-CAL4



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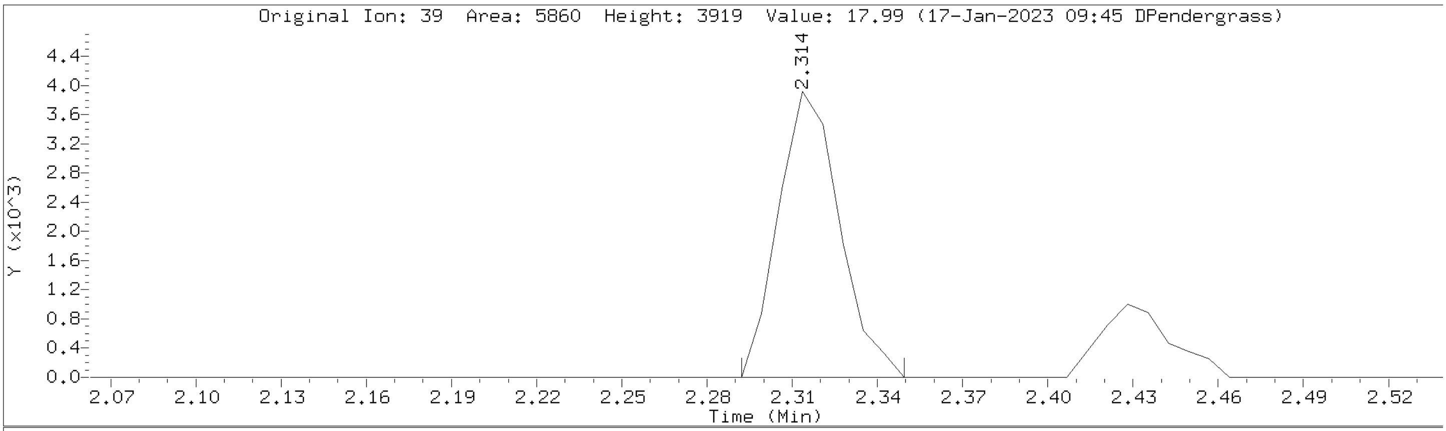
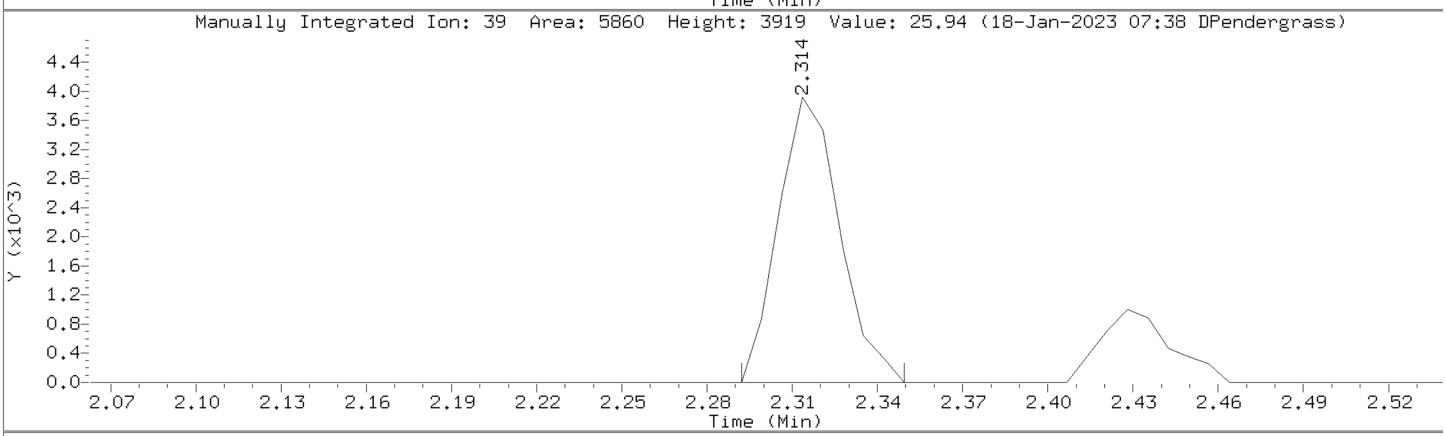
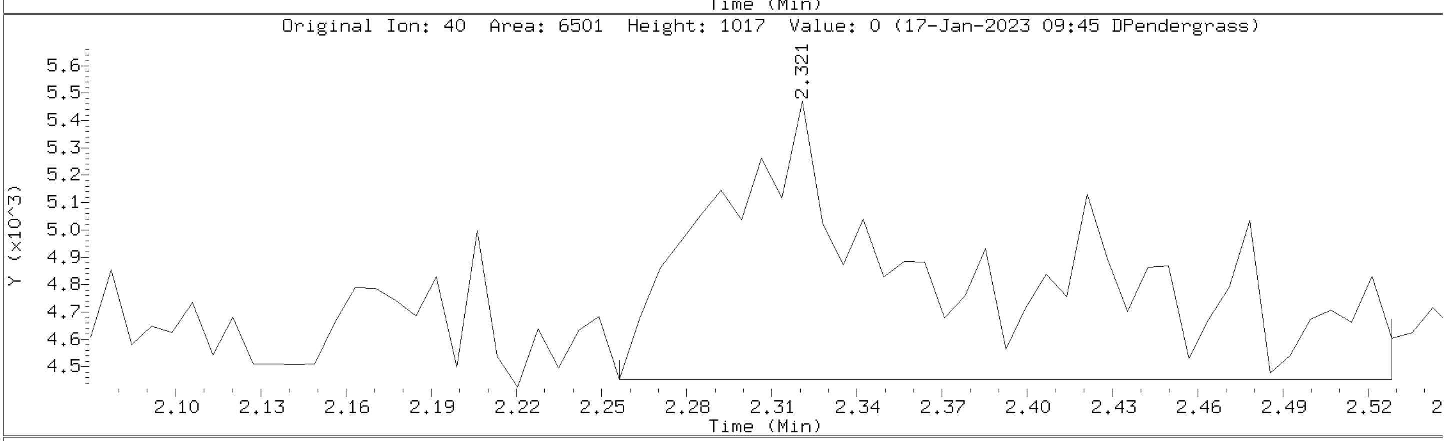
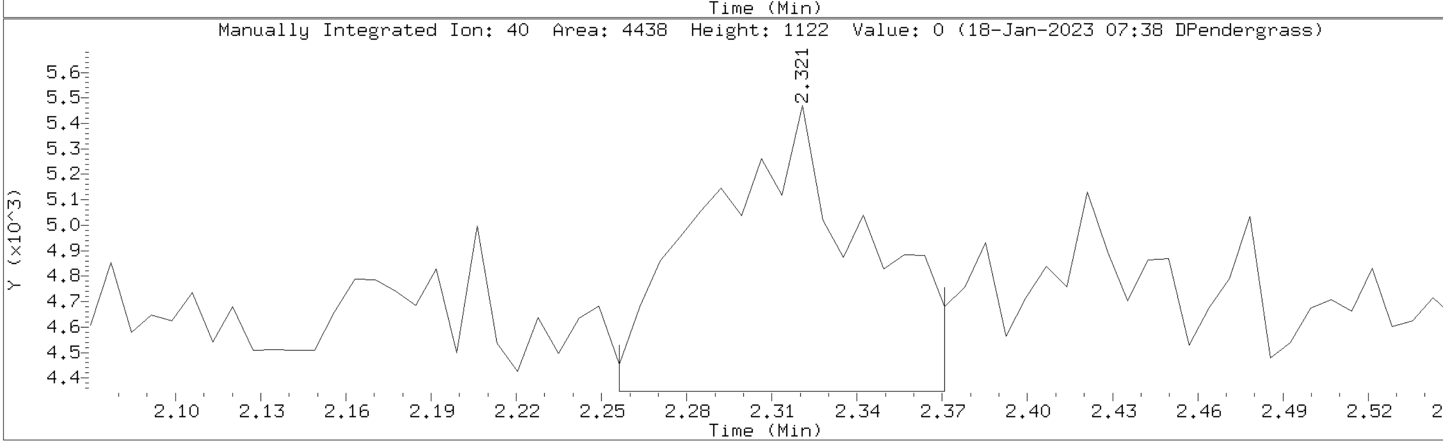
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: Acetonitrile   Review Code: WP
CAS Number: 75-05-8









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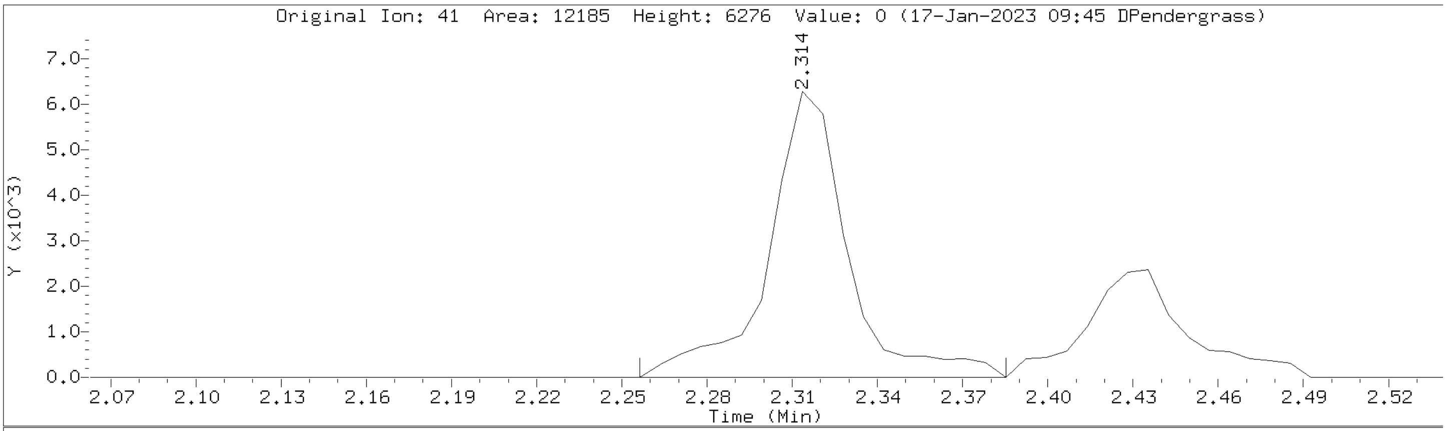
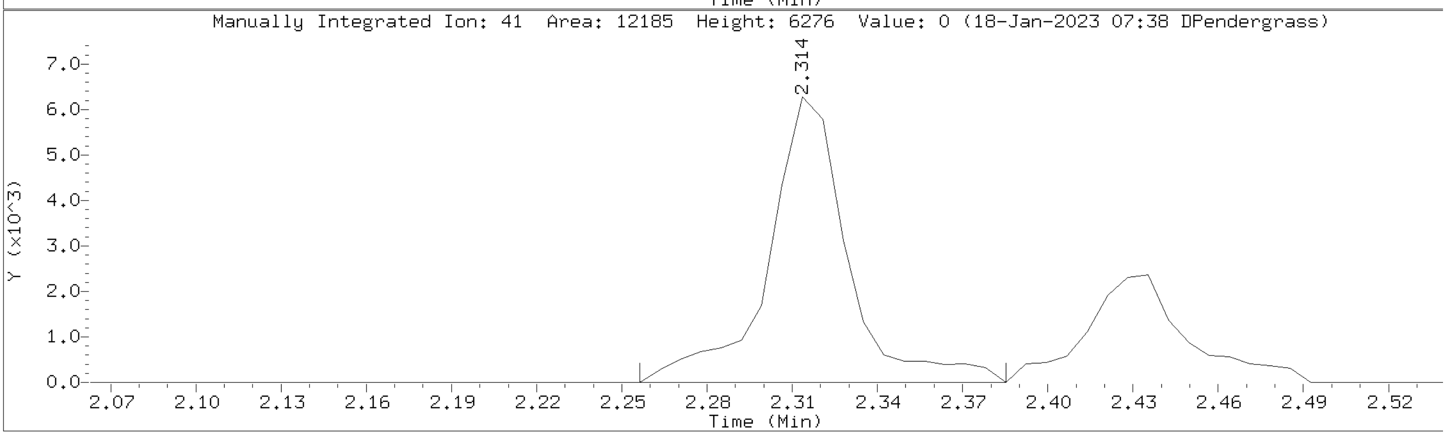
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4





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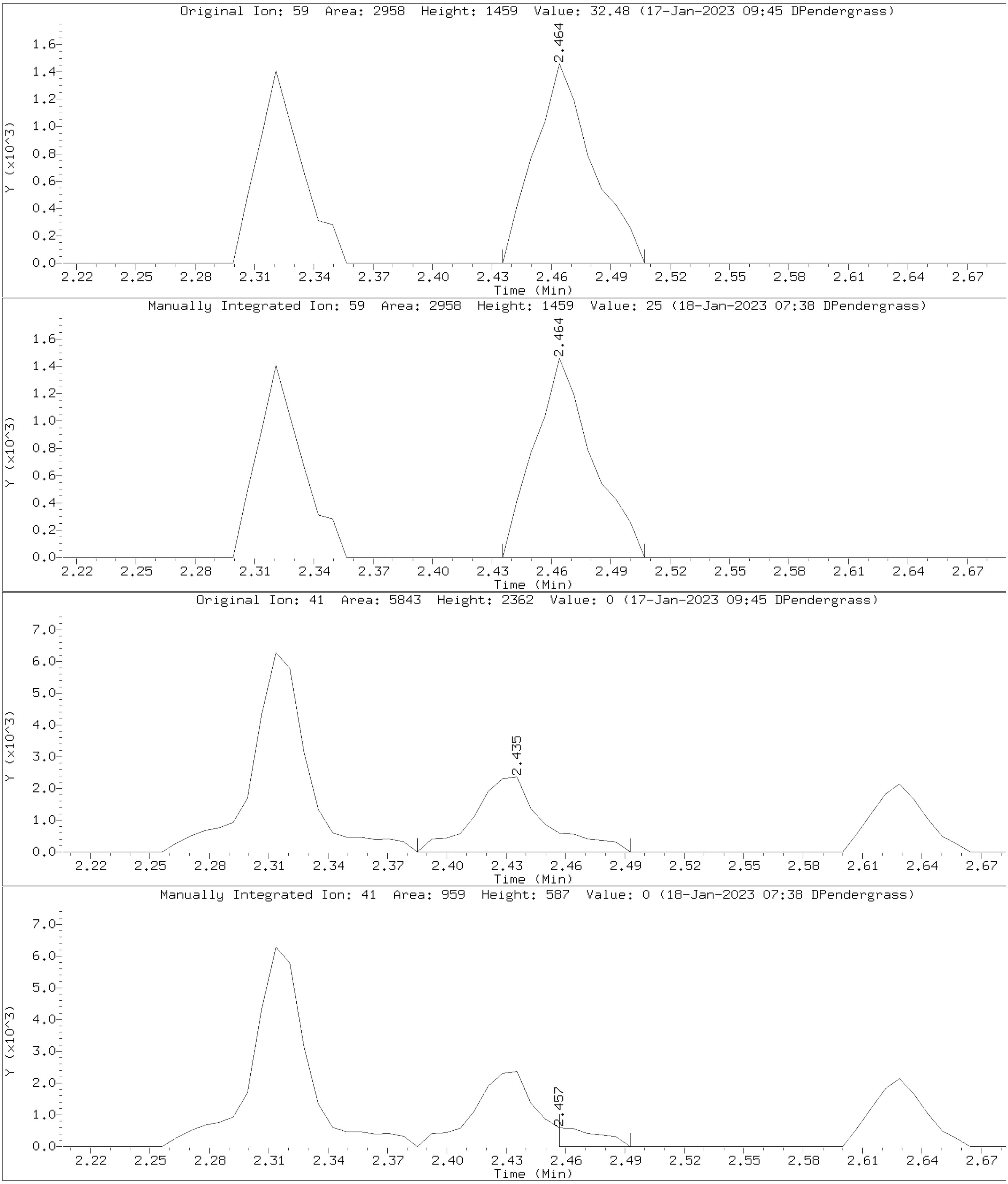
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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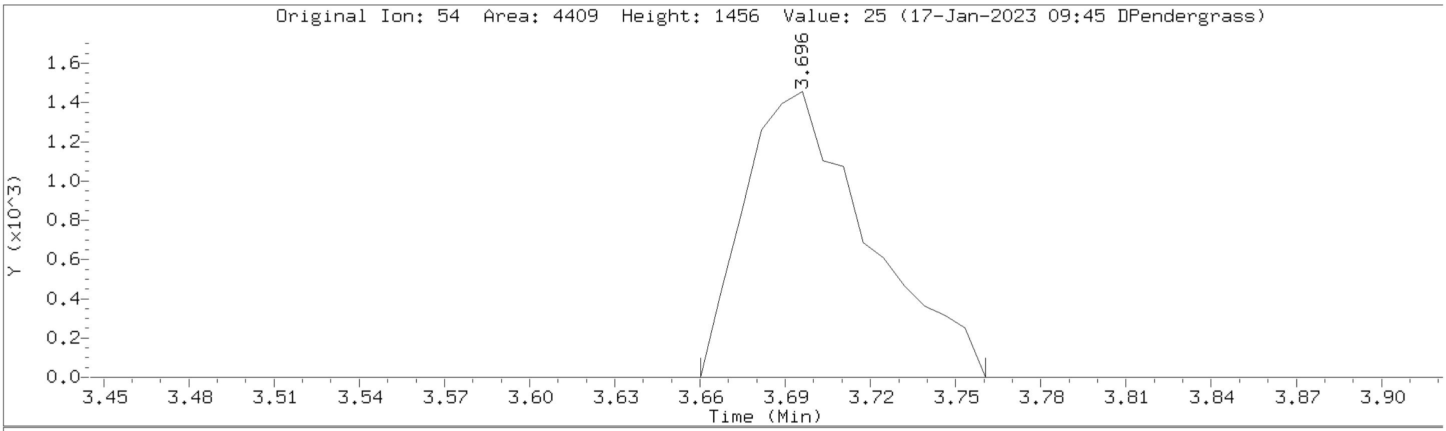
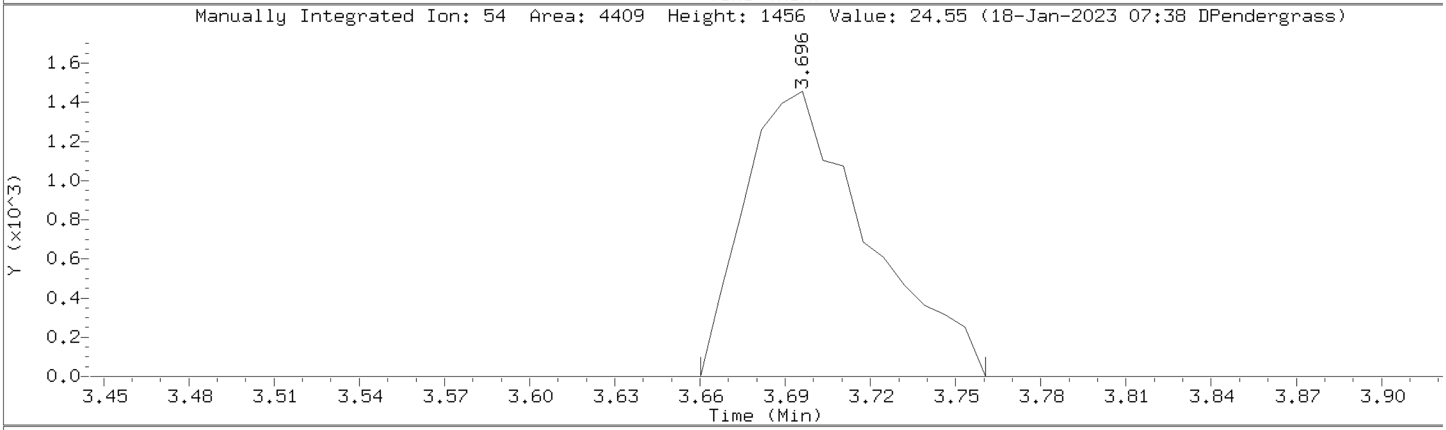
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: Propionitrile   Review Code: WP
CAS Number: 107-12-0

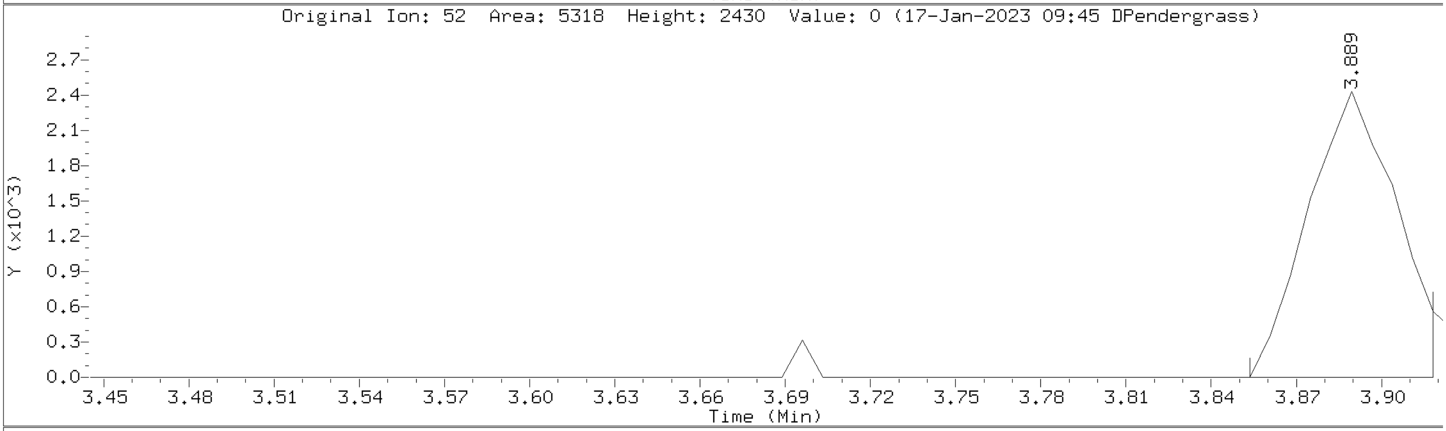
Original Ion: 54 Area: 4409 Height: 1456 Value: 25 (17-Jan-2023 09:45 DPendergrass)



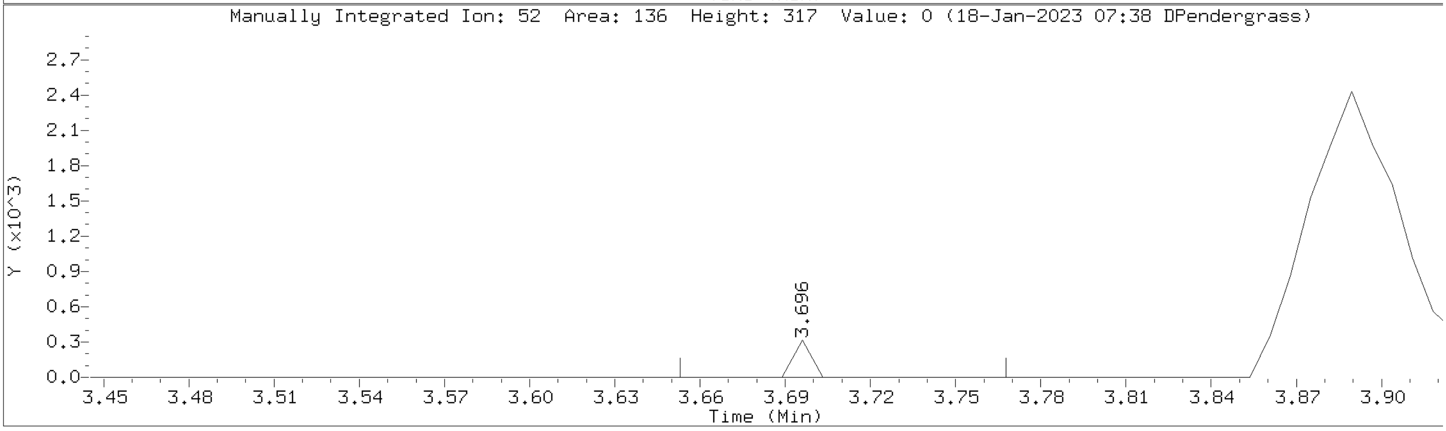
Manually Integrated Ion: 54 Area: 4409 Height: 1456 Value: 24.55 (18-Jan-2023 07:38 DPendergrass)



Original Ion: 52 Area: 5318 Height: 2430 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 52 Area: 136 Height: 317 Value: 0 (18-Jan-2023 07:38 DPendergrass)



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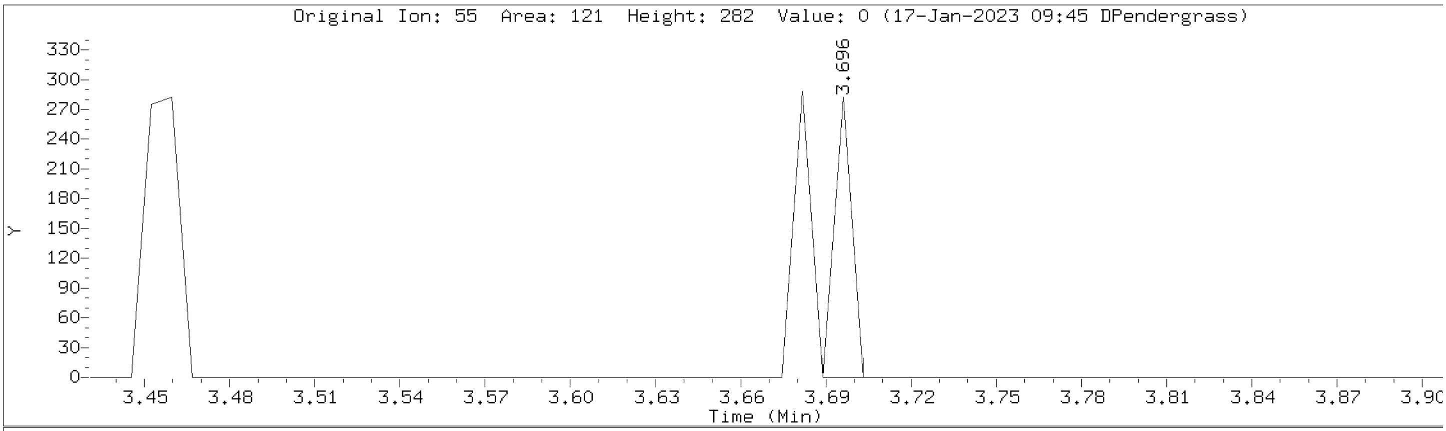
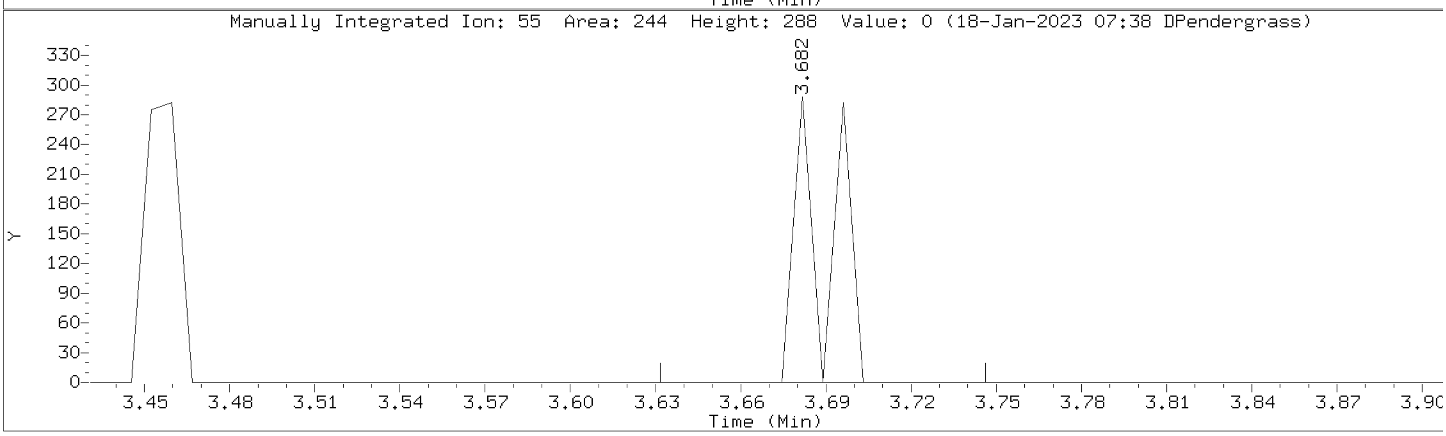
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4





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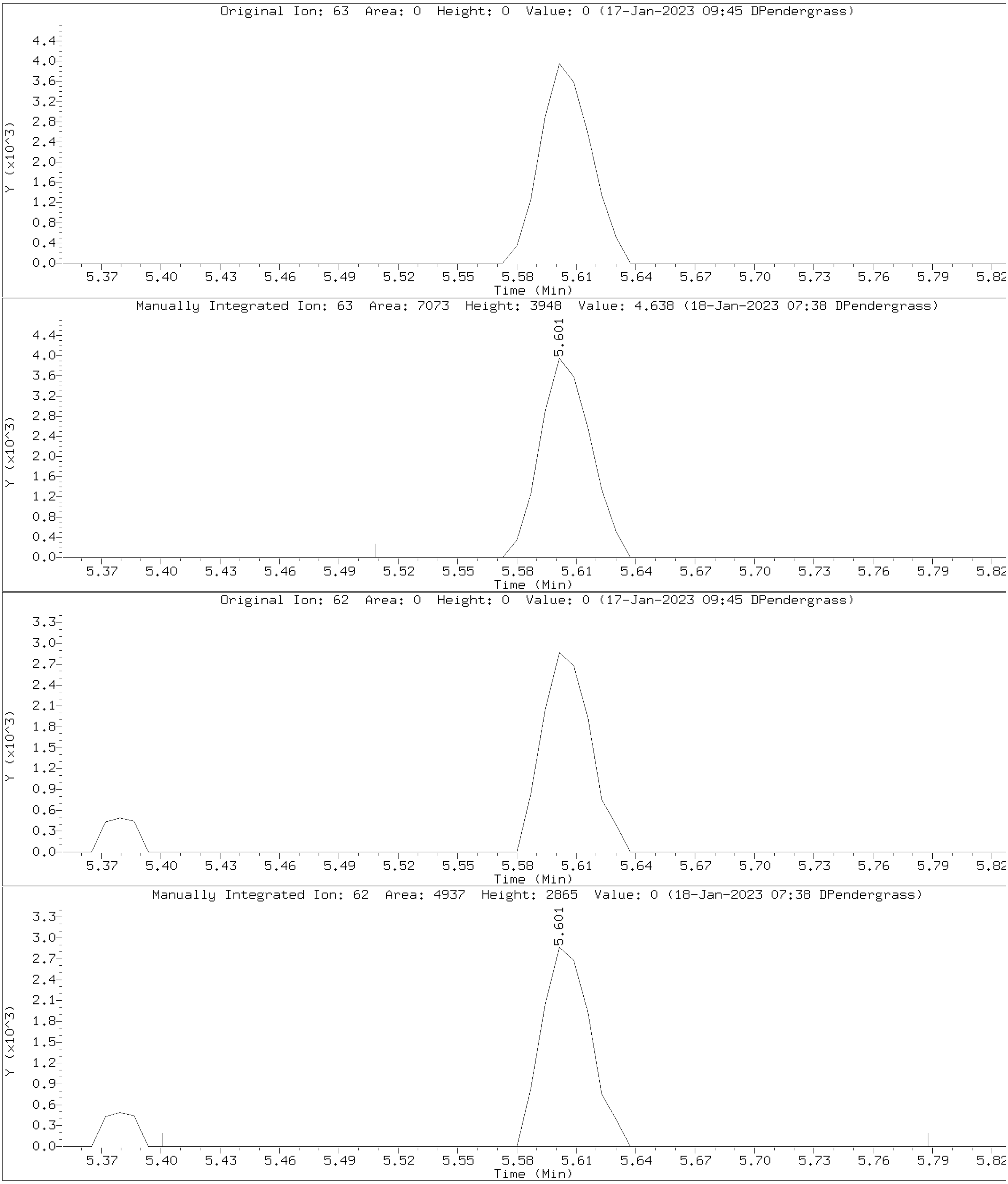
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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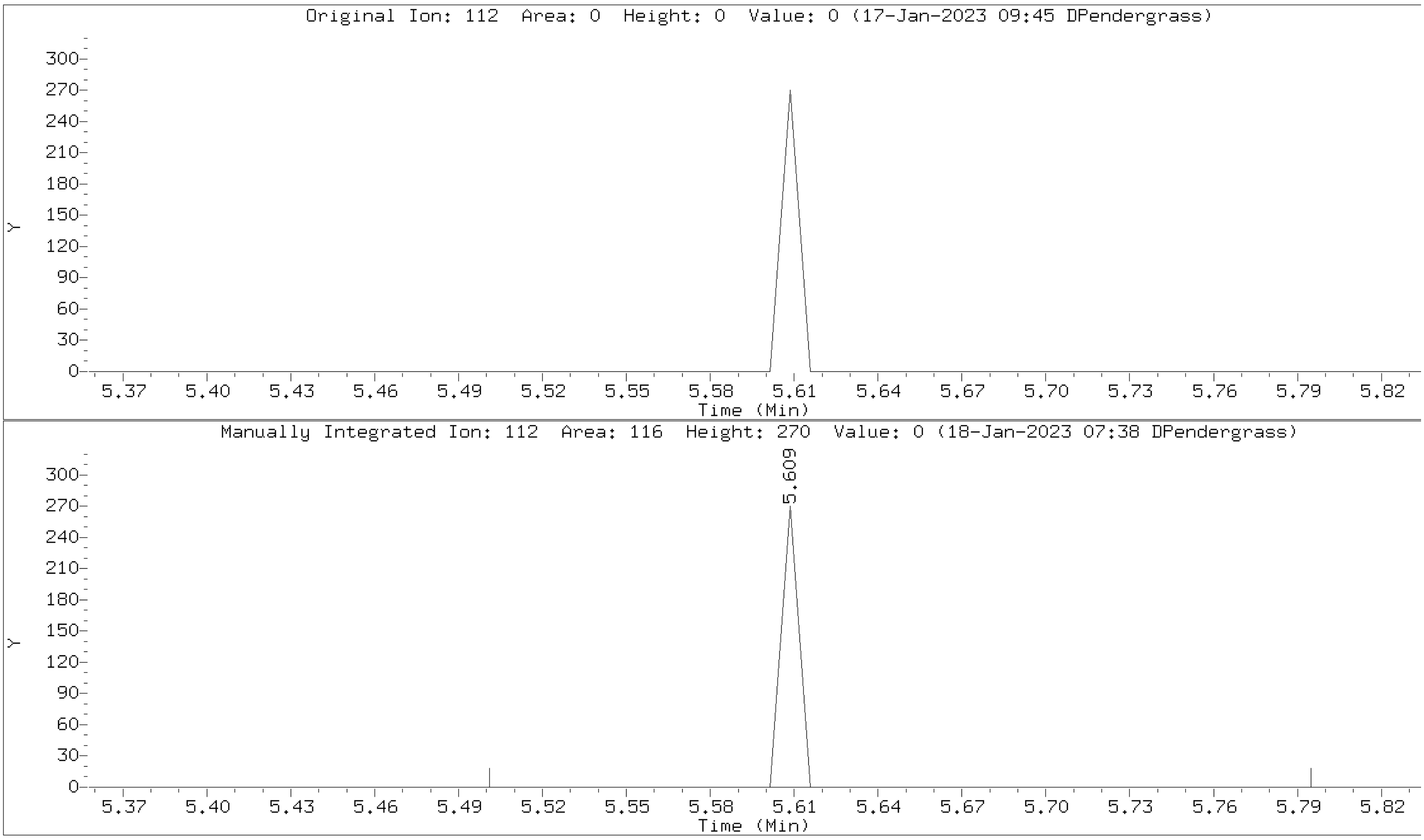
Lab Sample ID: 8260-CAL4



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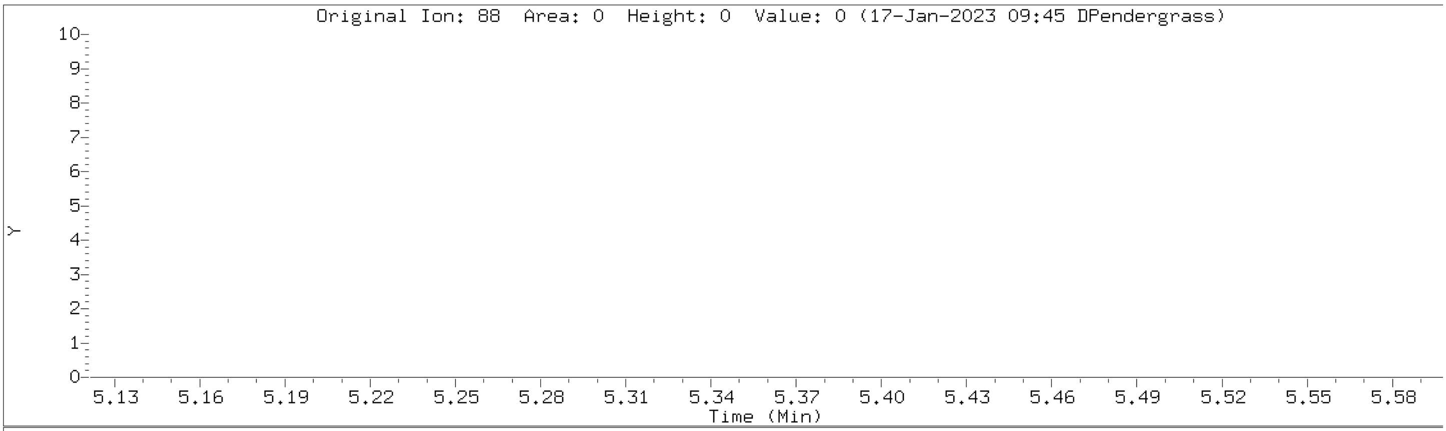
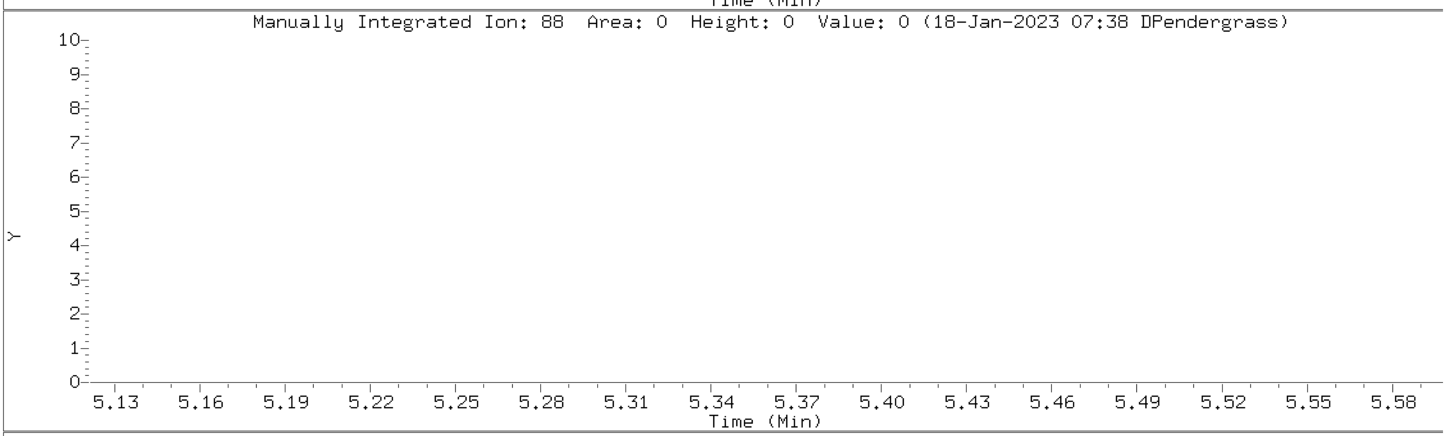
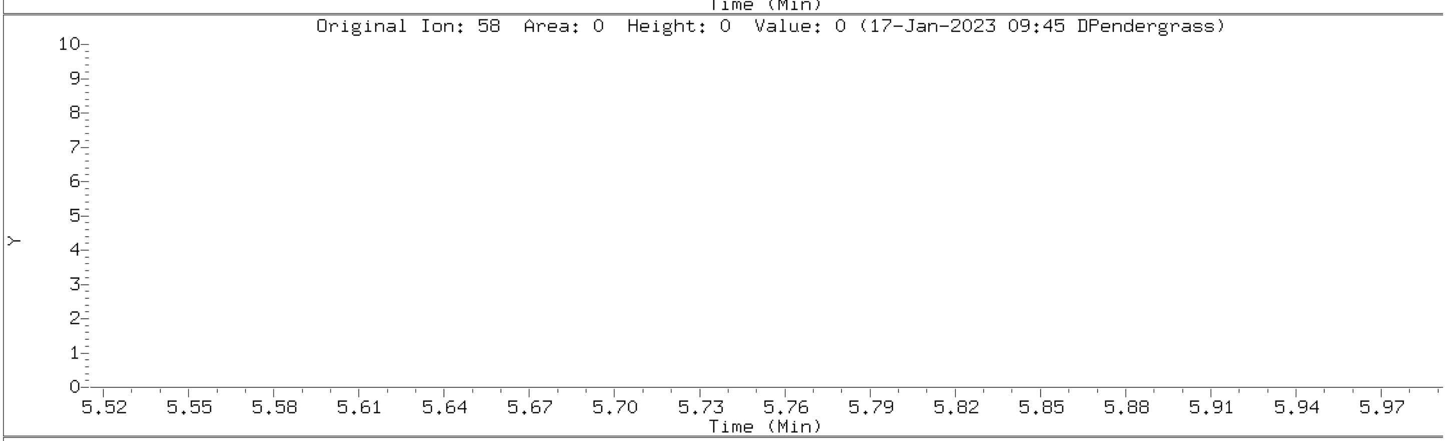
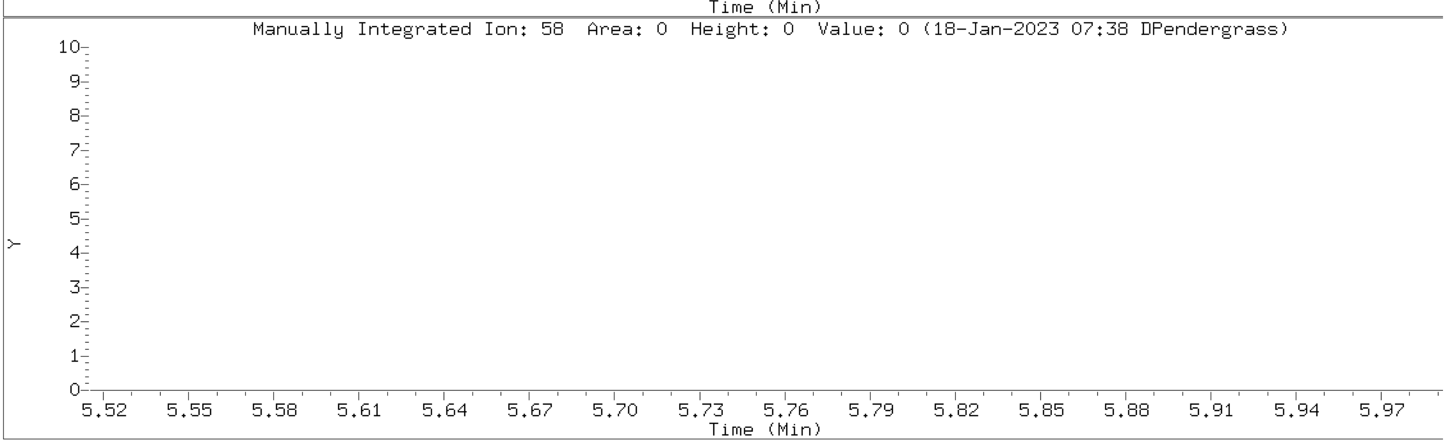
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: 1,4-Dioxane   Review Code: WP
CAS Number:









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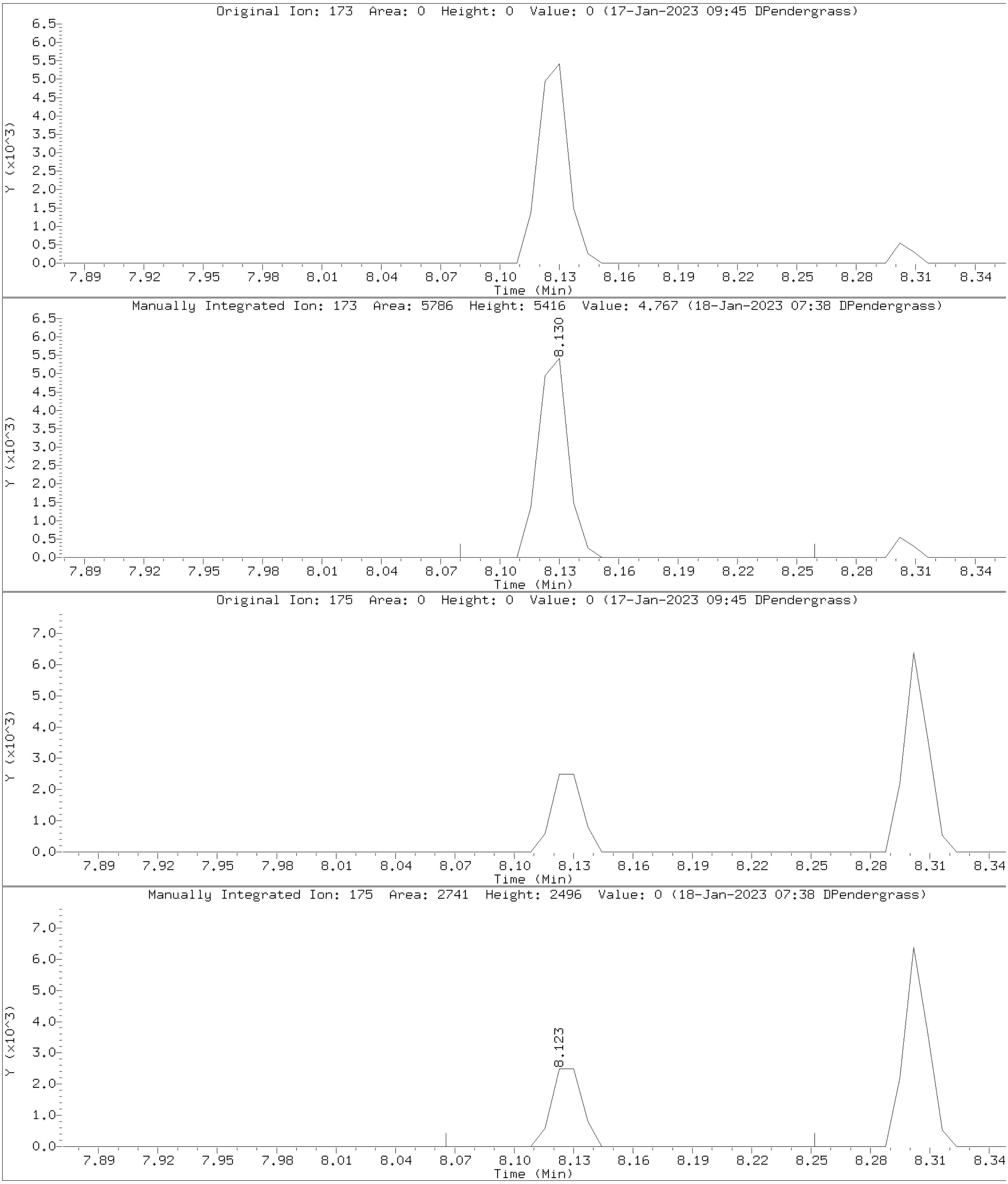
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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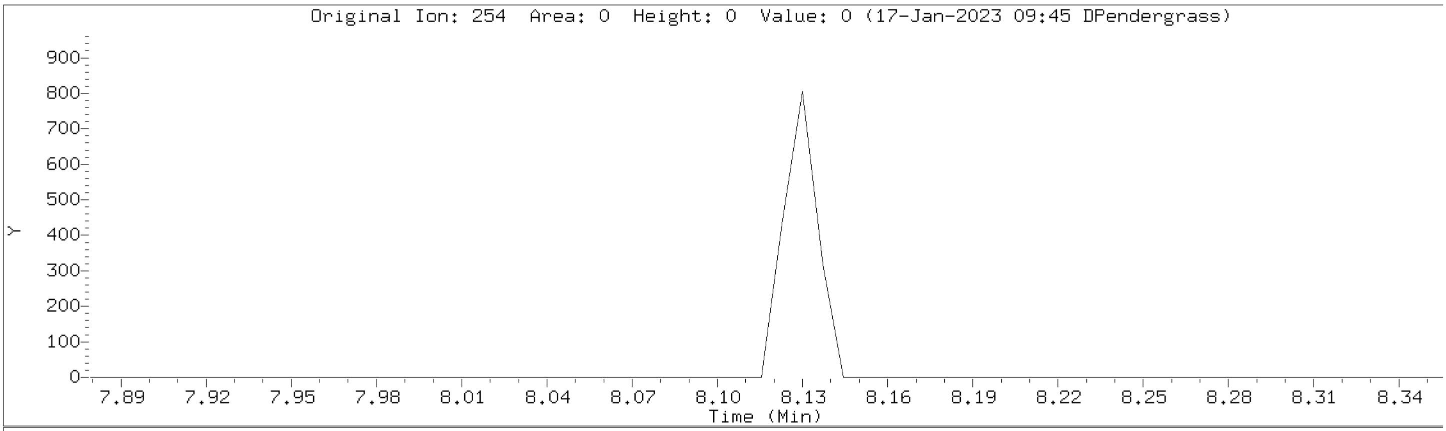
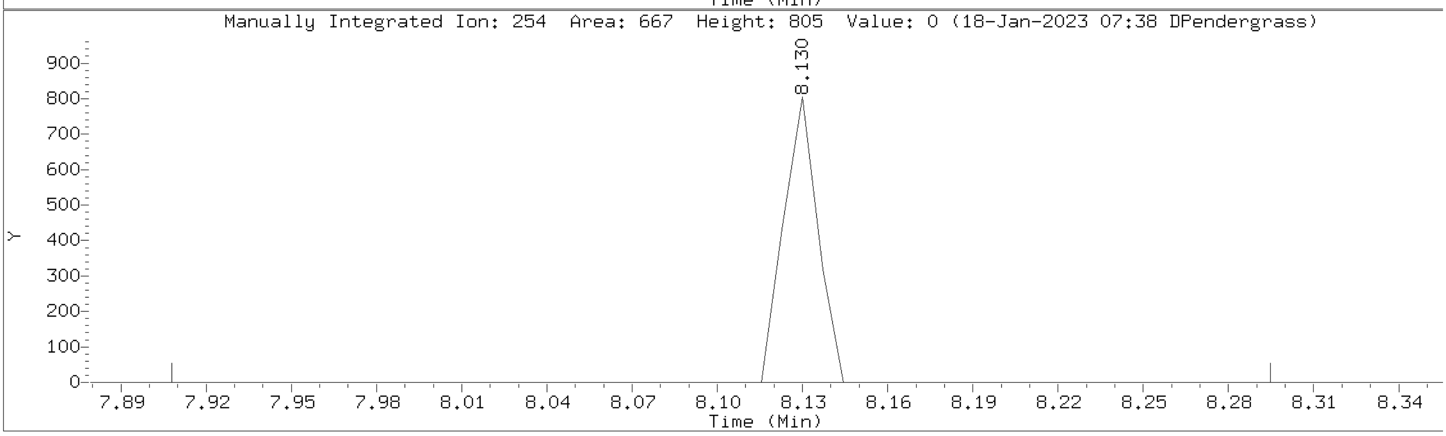
Lab Sample ID: 8260-CAL4





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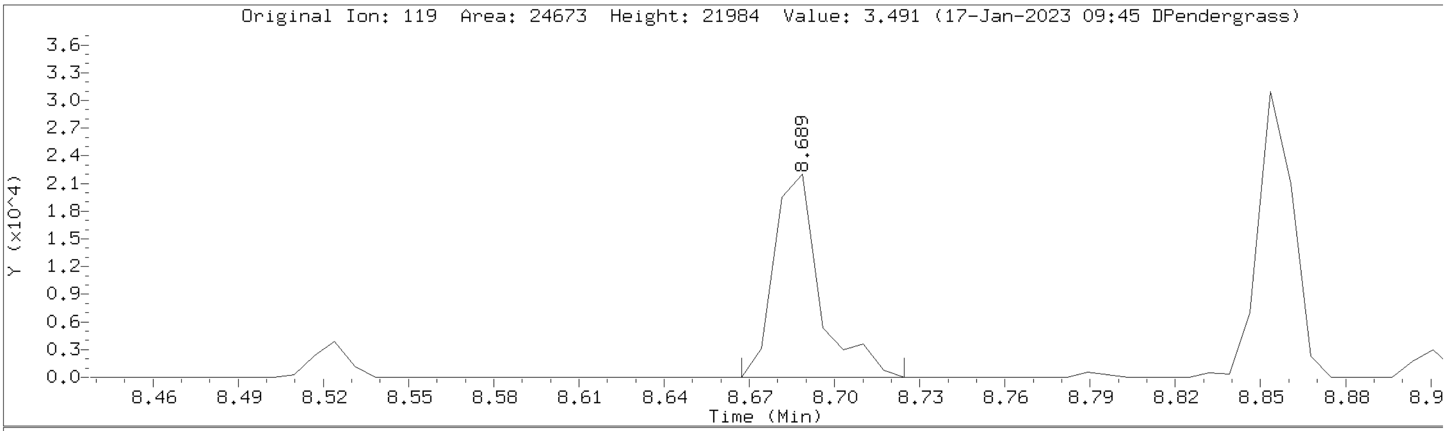
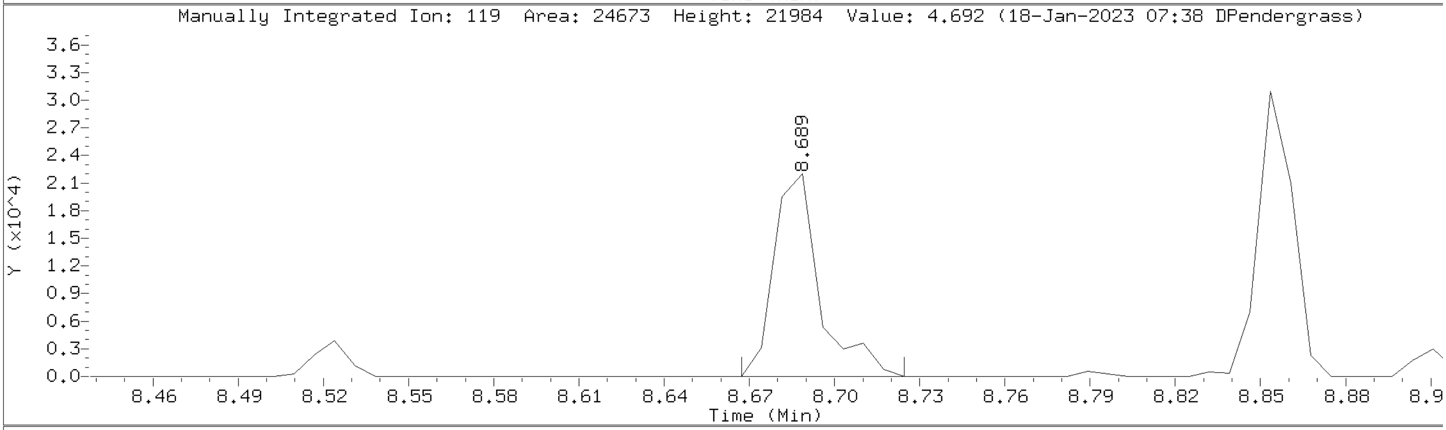
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butylbenzene   Review Code: GT
CAS Number: 98-06-6

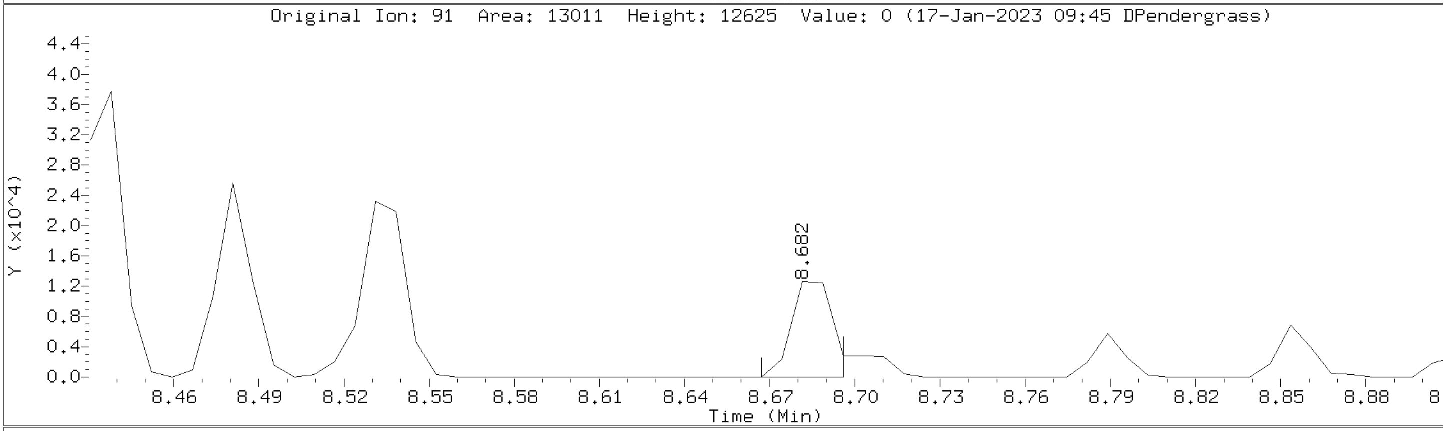
Original Ion: 119 Area: 24673 Height: 21984 Value: 3.491 (17-Jan-2023 09:45 DPendergrass)



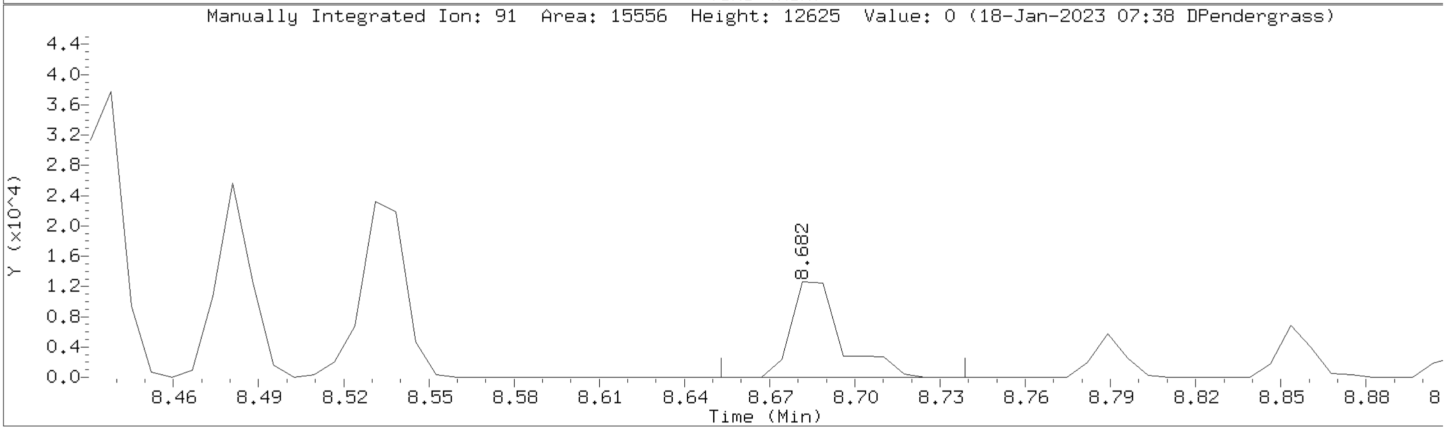
Manually Integrated Ion: 119 Area: 24673 Height: 21984 Value: 4.692 (18-Jan-2023 07:38 DPendergrass)



Original Ion: 91 Area: 13011 Height: 12625 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 91 Area: 15556 Height: 12625 Value: 0 (18-Jan-2023 07:38 DPendergrass)



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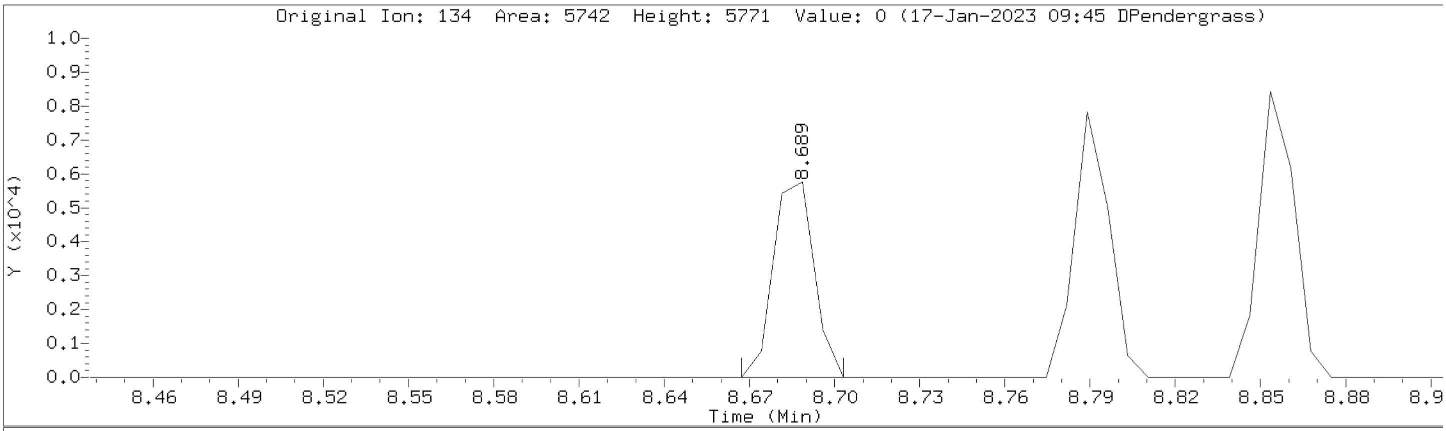
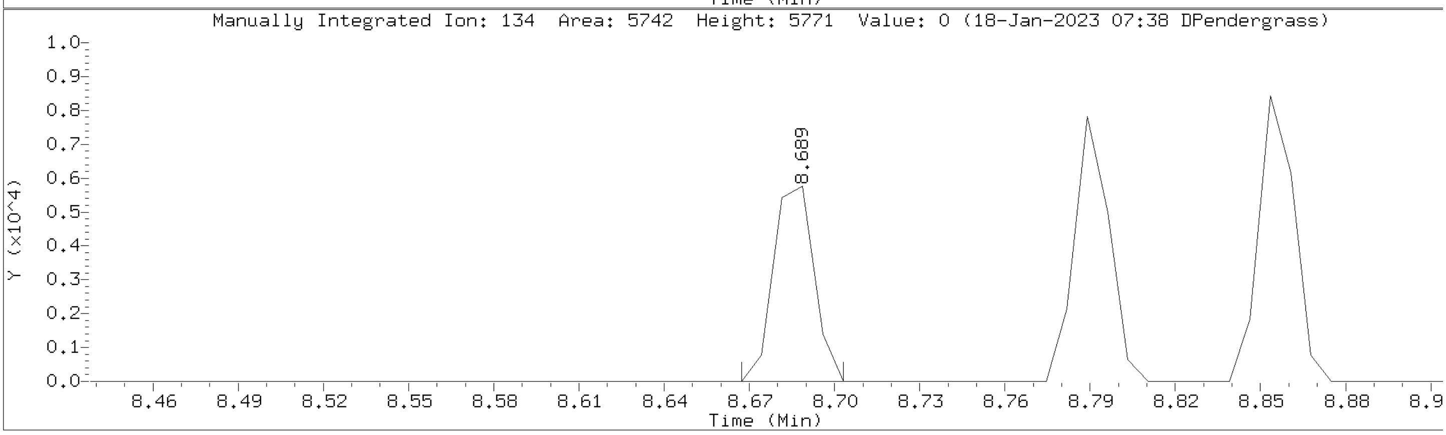
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4





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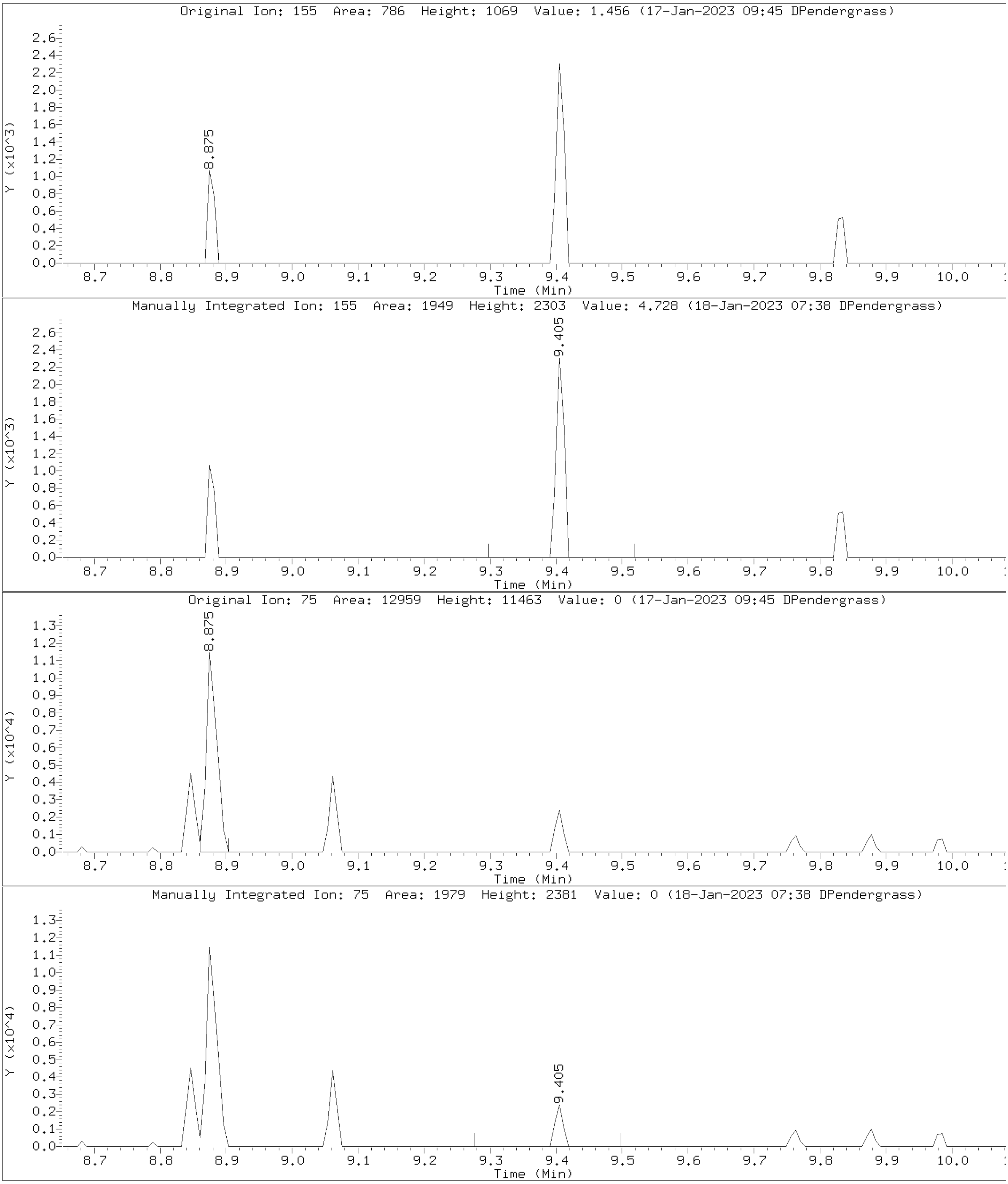
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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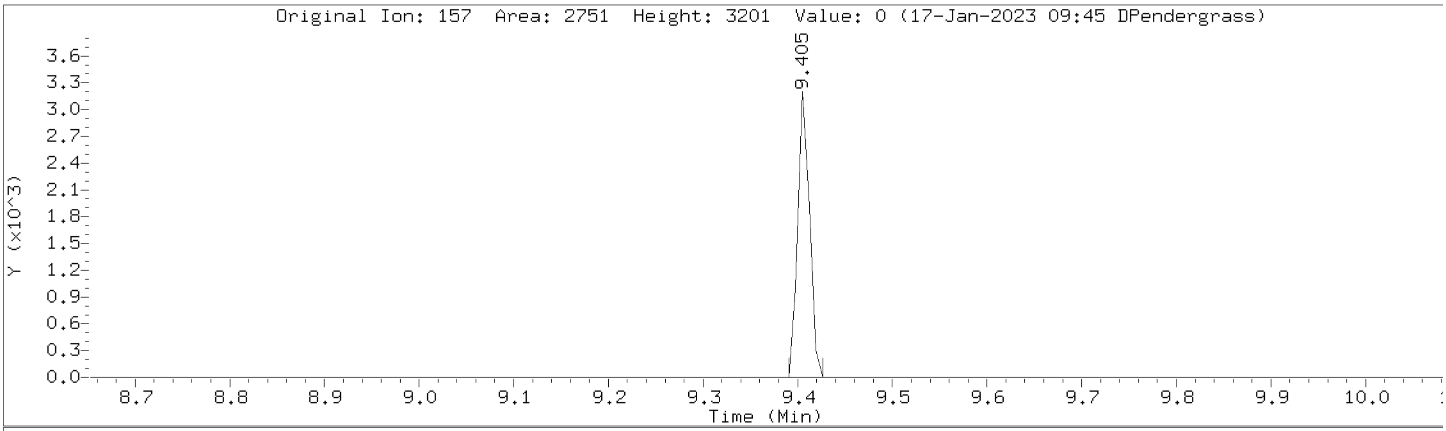
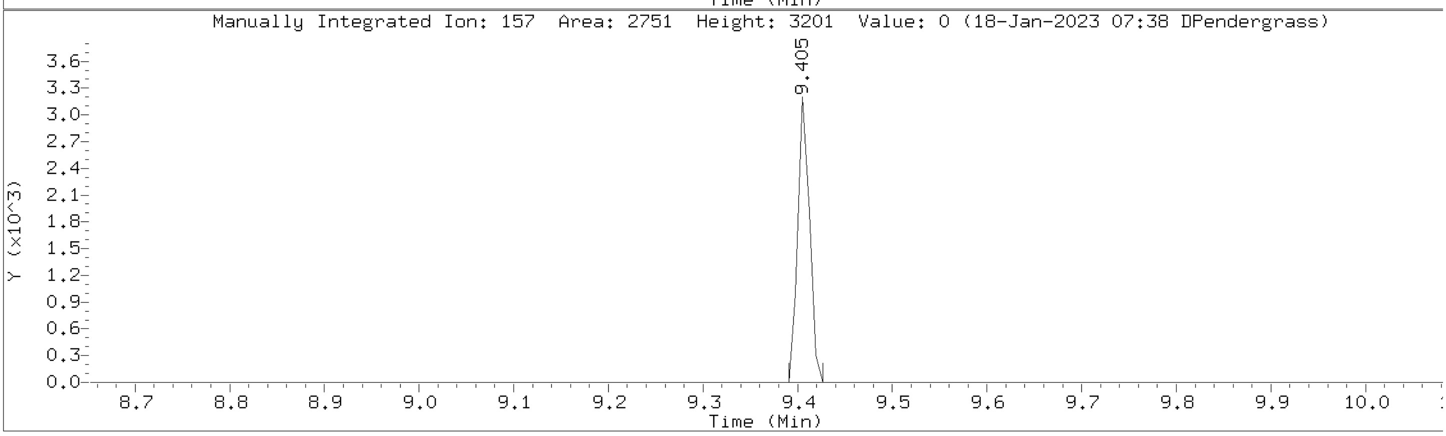
Lab Sample ID: 8260-CAL4





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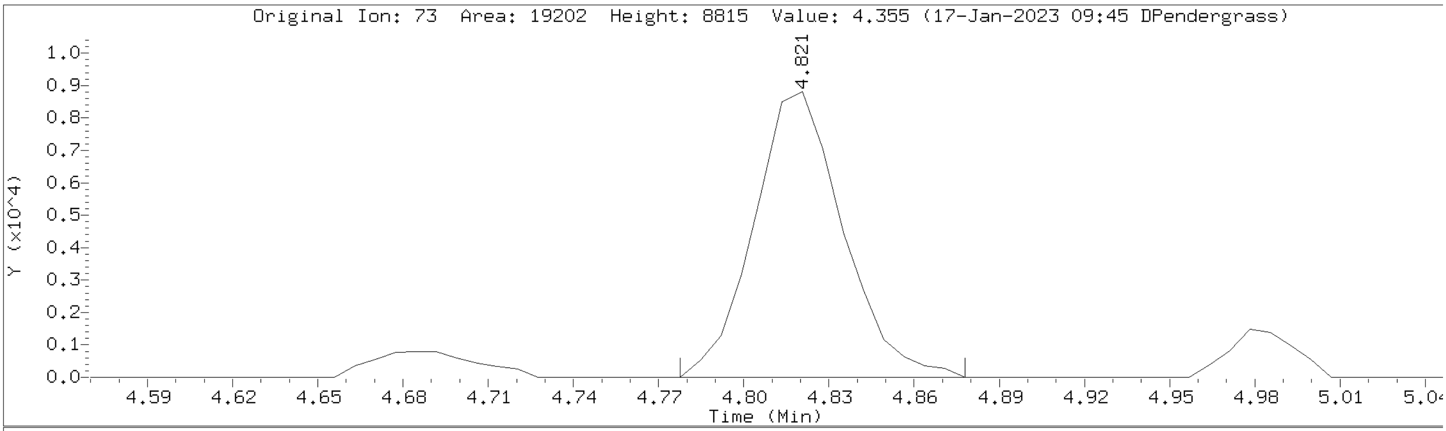
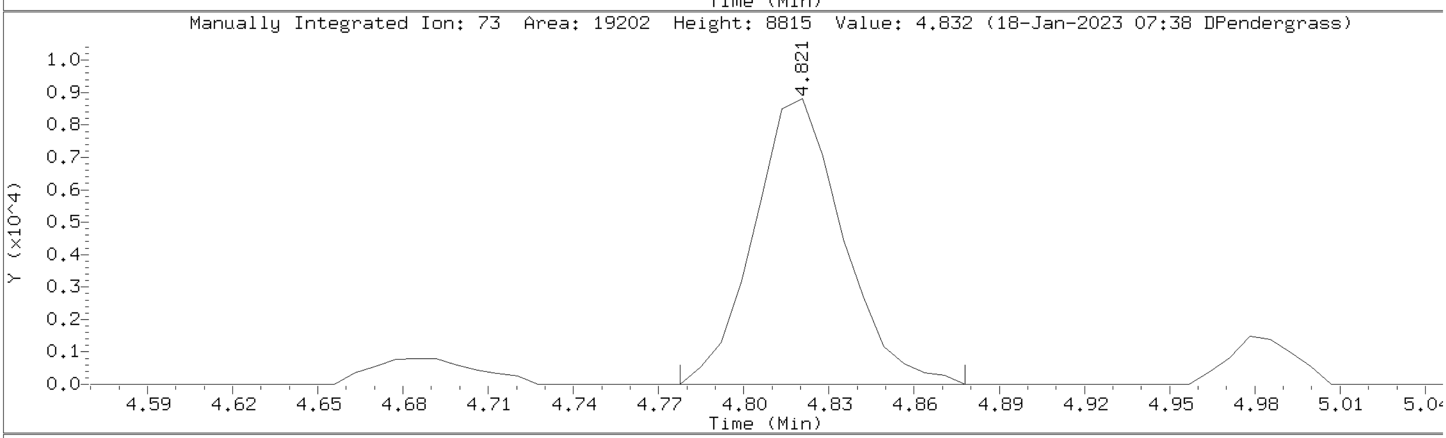
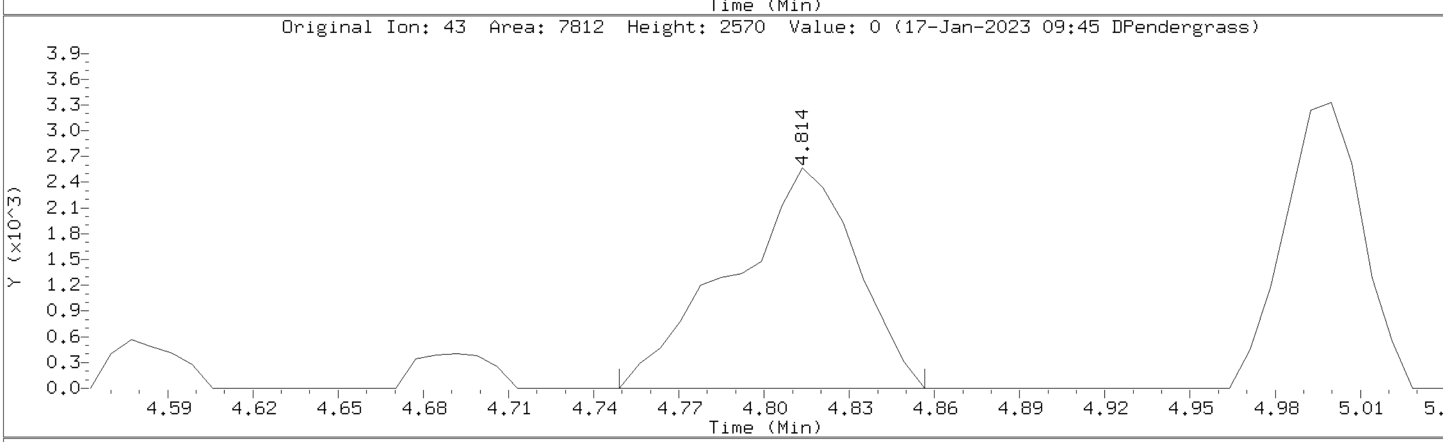
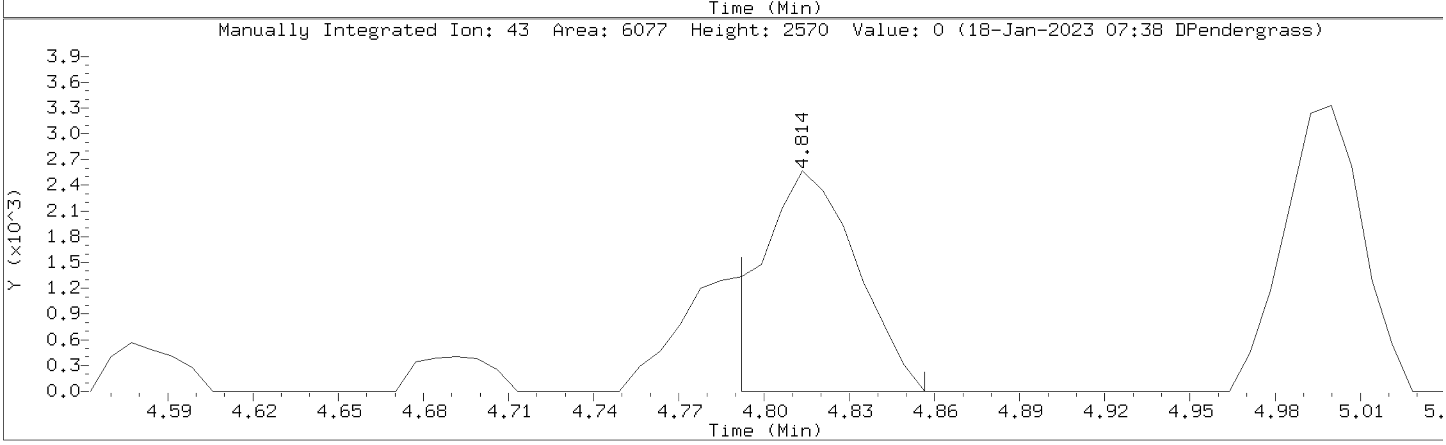
Injection Date: 16-JAN-2023 15:59
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL4

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b05.d
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Inj Date : 16-JAN-2023 16:31
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal5,335765:0
Misc Info : 166065
Comment :
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Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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	1.174	1.175	(0.236)	16463	10.0000	11.4(M)	GT
2 Chloromethane	50	1.296	1.296	(0.260)	14604	10.0000	10.2	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	16785	10.0000	10.8	
4 Bromomethane	94	1.532	1.533	(0.307)	7401	10.0000	10.2	
5 Chloroethane	64	1.590	1.590	(0.319)	10112	10.0000	11.4	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	19748	10.0000	11.0	
7 Diethyl ether	74	1.912	1.912	(0.384)	7975	10.0000	9.47	
8 Acrolein	56	1.991	1.991	(0.399)	60789	200.000	230	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	12742	10.0000	10.6	
10 1,1-Dichloroethene	96	2.070	2.070	(0.415)	12073	10.0000	10.2	
11 Acetone	43	2.091	2.091	(0.420)	21972	50.0000	56.6	
12 Iodomethane	142	2.177	2.177	(0.437)	16648	10.0000	9.95	
13 Carbon Disulfide	76	2.234	2.234	(0.448)	41137	10.0000	10.4	
14 Acetonitrile	39	2.313	2.313	(0.464)	11481	50.0000	58.7(M)	LT
15 allyl chloride	41	2.313	2.314	(0.464)	23335	10.0000	10.7(M)	GT
16 Methyl Acetate	43	2.320	2.320	(0.466)	56827	50.0000	54.4	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.494)	6526	50.0000	58.5(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	17485	10.0000	11.6	
19 Acrylonitrile	53	2.585	2.585	(0.519)	28044	50.0000	58.0	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	37102	10.0000	9.76	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	13986	10.0000	10.3	
22 n-Hexane	57	2.872	2.872	(0.576)	18393	10.0000	11.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	2.994	2.994	(0.601)	21859	10.0000	9.44	
24 Vinyl Acetate	43	3.037	3.037	(0.609)	105960	40.0000	42.3	
25 Diisopropyl ether	45	3.065	3.065	(0.615)	35485	10.0000	9.31	
26 chloroprene	53	3.094	3.094	(0.621)	18411	10.0000	10.0	
27 Ethyl-tert-butyl ether	59	3.459	3.459	(0.694)	33906	10.0000	8.84	
28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	18214	10.0000	10.0	
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	14976	10.0000	9.97	
30 2-Butanone	43	3.624	3.624	(0.727)	32880	50.0000	55.9	
31 Ethyl Acetate	88	3.710	3.710	(0.744)	3639	50.0000	53.8	
32 Propionitrile	54	3.688	3.689	(0.740)	8992	50.0000	53.1	
33 Methacrylonitrile	41	3.889	3.889	(0.780)	40817	50.0000	54.4	
34 Bromochloromethane	49	3.903	3.903	(0.783)	10417	10.0000	10.3	
35 Tetrahydrofuran	42	3.982	3.982	(0.799)	23296	50.0000	54.9	
36 Chloroform	83	4.011	4.011	(0.805)	22351	10.0000	9.56	
$ 37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	48906	50.0000	50.3	
38 1,1,1-Trichloroethane	97	4.240	4.240	(0.851)	18842	10.0000	9.75	
39 Cyclohexane	56	4.312	4.312	(0.865)	20628	10.0000	10.1	
40 Carbon Tetrachloride	117	4.441	4.441	(0.891)	16410	10.0000	9.73	
41 1,1-Dichloropropene	75	4.433	4.433	(0.889)	16314	10.0000	9.78	
42 Isobutyl alcohol	43	4.577	4.577	(0.918)	1876	50.0000	47.8	
43 Benzene	78	4.670	4.670	(0.937)	51890	10.0000	9.03	
44 1,2-Dichloroethane	62	4.677	4.677	(0.938)	15848	10.0000	10.4	
45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.958)	31722	10.0000	9.76	
46 tert-Amylmethyl ether	73	4.813	4.814	(0.966)	33635	10.0000	8.98	
* 47 Fluorobenzene	96	4.985	4.985	(1.000)	213875	50.0000		
48 Trichloroethene	95	5.379	5.379	(1.079)	14477	10.0000	10.1	
49 Methylcyclohexane	55	5.587	5.587	(1.121)	16115	10.0000	10.6	
50 1,2-Dichloropropane	63	5.601	5.601	(1.124)	13831	10.0000	10.3	
51 Dibromomethane	93	5.716	5.716	(1.147)	7395	10.0000	9.04	
52 Methyl methacrylate	69	5.759	5.759	(1.155)	9598	10.0000	9.20	
53 1,4-Dioxane	88	5.071	5.071	(1.017)	0	200.000	(M)	WP
54 Bromodichloromethane	83	5.888	5.888	(1.181)	15328	10.0000	9.27	
55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	40567	50.0000	48.3	
56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.832)	19694	10.0000	8.79	
57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	67943	50.0000	51.9	
$ 58 Toluene-d8	98	6.589	6.589	(0.864)	207888	50.0000	50.2	
59 Toluene	91	6.647	6.647	(0.871)	58535	10.0000	9.51	
60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	17802	10.0000	9.00	
61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	17861	10.0000	9.94	
62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	10095	10.0000	9.82	
63 Tetrachloroethene	166	7.077	7.077	(0.928)	17515	10.0000	10.5	
64 1,3-Dichloropropane	76	7.091	7.091	(0.930)	21681	10.0000	9.89	
65 2-Hexanone	43	7.163	7.163	(0.939)	53335	50.0000	55.3	
66 Dibromochloromethane	129	7.248	7.248	(0.950)	13907	10.0000	9.59	
67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	12943	10.0000	9.72	
* 68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	159611	50.0000		
69 Chlorobenzene	112	7.650	7.650	(1.003)	37855	10.0000	9.41	
70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	12978	10.0000	9.34	
71 Ethylbenzene	106	7.721	7.721	(1.012)	20238	10.0000	9.63	
72 m&p-Xylene	106	7.793	7.793	(1.022)	25188	10.0000	9.46	
73 o-Xylene	106	8.022	8.022	(1.052)	23232	10.0000	9.46	
74 Styrene	104	8.022	8.022	(1.052)	41365	10.0000	9.92	
75 Bromoform	173	8.130	8.130	(0.916)	10413	10.0000	9.10	
76 Isopropylbenzene	105	8.223	8.223	(1.078)	59856	10.0000	9.79	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.088)	75827	50.0000	50.4	
78 Bromobenzene	77	8.380	8.380	(1.099)	28490	10.0000	9.37	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	17011	10.0000	9.05	
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	5782	10.0000	9.76	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.101)	4981	10.0000	10.4	
82 n-Propylbenzene	91	8.438	8.438	(0.951)	71471	10.0000	9.92	
83 2-Chlorotoluene	91	8.481	8.481	(0.956)	42097	10.0000	9.60	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	49230	10.0000	9.86	
85 4-Chlorotoluene	126	8.538	8.538	(0.962)	15834	10.0000	9.62	
86 tert-Butylbenzene	119	8.688	8.689	(0.979)	46994	10.0000	9.48(M)	GT
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	49355	10.0000	9.74	
88 sec-Butylbenzene	105	8.789	8.789	(0.990)	59834	10.0000	9.92	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	28402	10.0000	9.49	
90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	52155	10.0000	9.92	
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.874	(1.000)	89367	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	29082	10.0000	9.46	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	49251	10.0000	9.72	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	44867	10.0000	10.5	
95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	29017	10.0000	10.2	
96 Hexachloroethane	201	9.190	9.190	(1.036)	8388	10.0000	10.1	
97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.060)	4060	10.0000	10.4(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	14600	10.0000	9.22	
99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	7238	10.0000	9.37	
100 Naphthalene	128	9.877	9.877	(1.113)	43006	10.0000	9.62	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	12435	10.0000	9.60	
102 2,methyl-naphthalene	142	10.415	10.415	(1.174)	3448	10.0000	10.6	
103 1-Methylnaphthalene	142	10.522	10.522	(1.186)	1994	10.0000	10.4	

QC Flag Legend

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).
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\50mvcb.i\b011623cal.b\b05.d

Page 4

Date : 16-JAN-2023 16:31

Client ID: 8260-CAL5

Instrument: 50mvcb.i

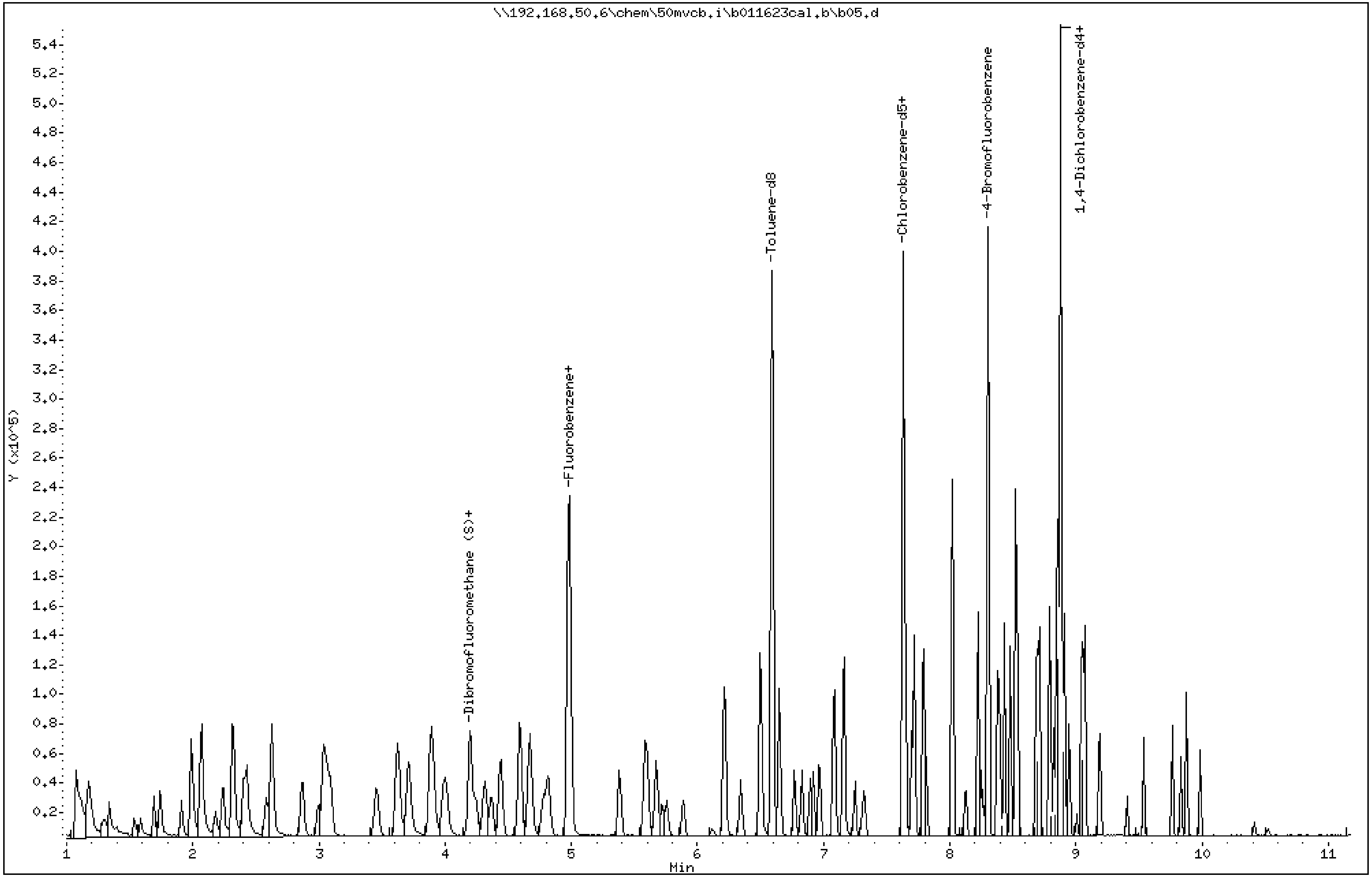
Sample Info: 8260-CAL5,335765:0

Purge Volume: 5.0

Operator: DAP

Column phase: DB-624

Column diameter: 0.18



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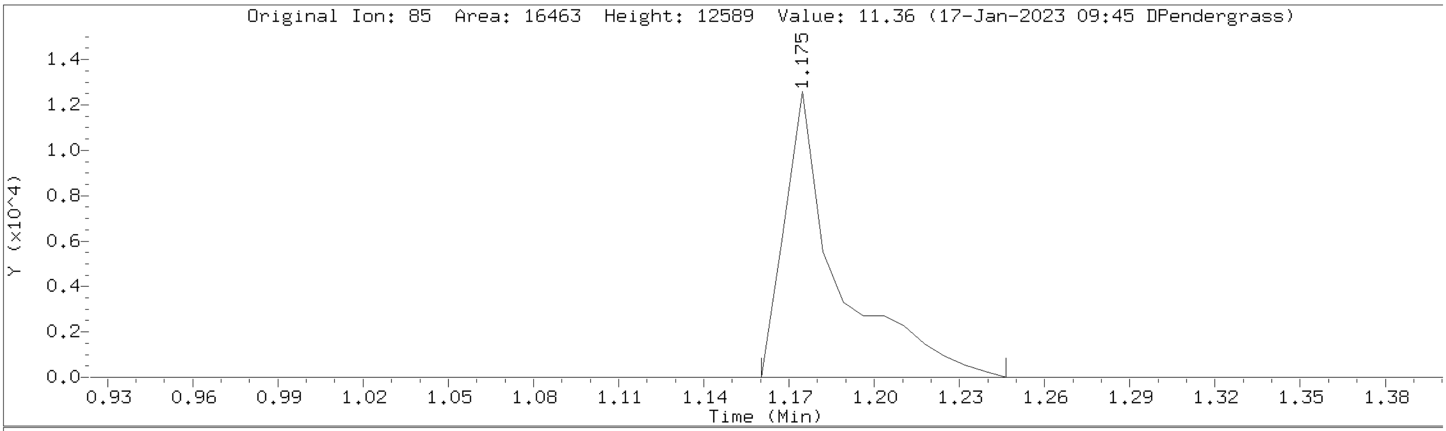
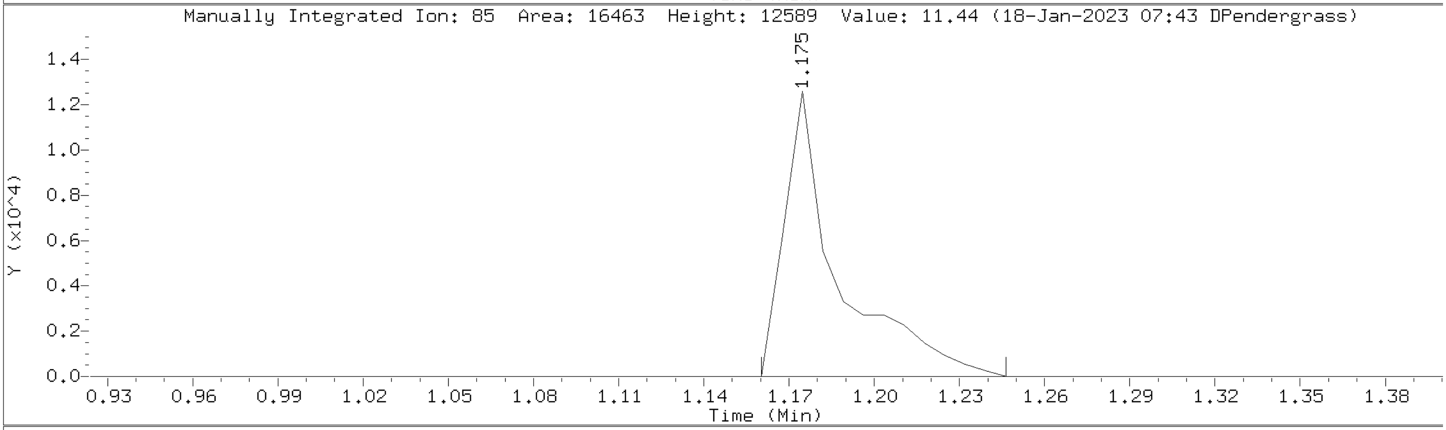
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: Dichlorodifluoromethane   Review Code: GT
CAS Number: 74-87-3

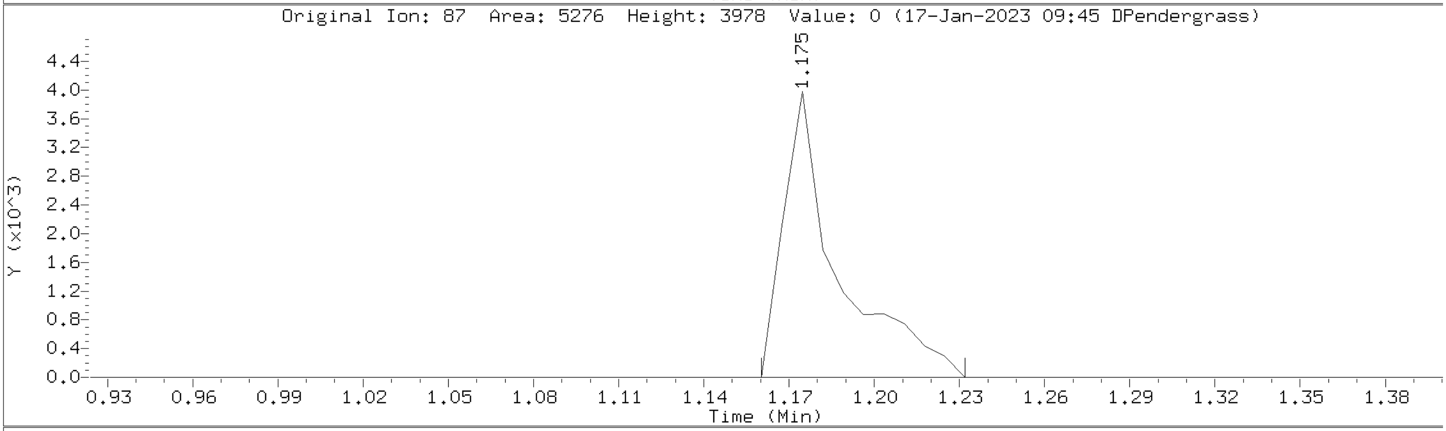
Original Ion: 85 Area: 16463 Height: 12589 Value: 11.36 (17-Jan-2023 09:45 DPendergrass)



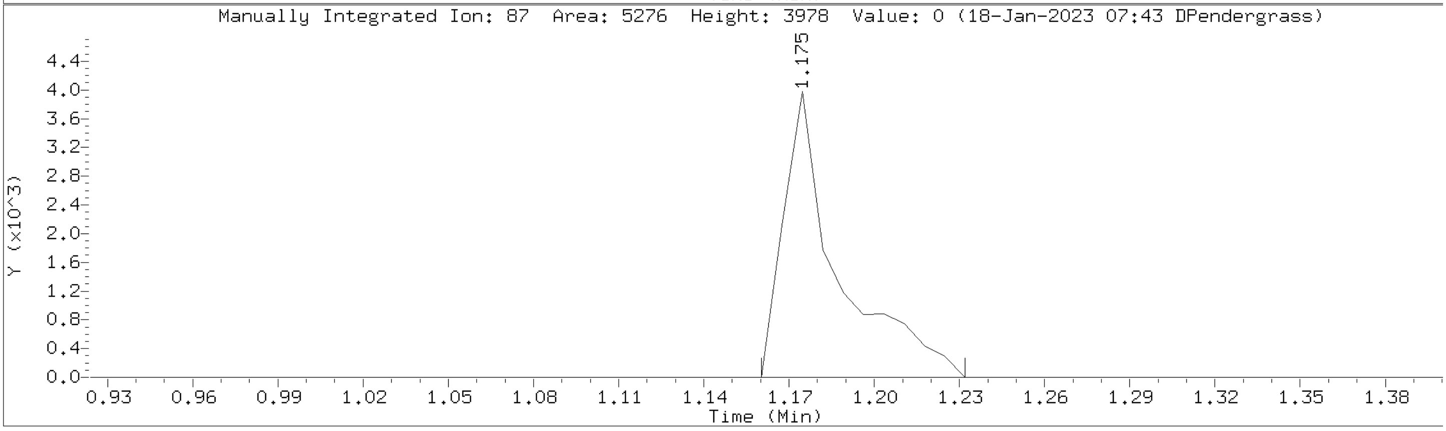
Manually Integrated Ion: 85 Area: 16463 Height: 12589 Value: 11.44 (18-Jan-2023 07:43 DPendergrass)



Original Ion: 87 Area: 5276 Height: 3978 Value: 0 (17-Jan-2023 09:45 DPendergrass)



Manually Integrated Ion: 87 Area: 5276 Height: 3978 Value: 0 (18-Jan-2023 07:43 DPendergrass)



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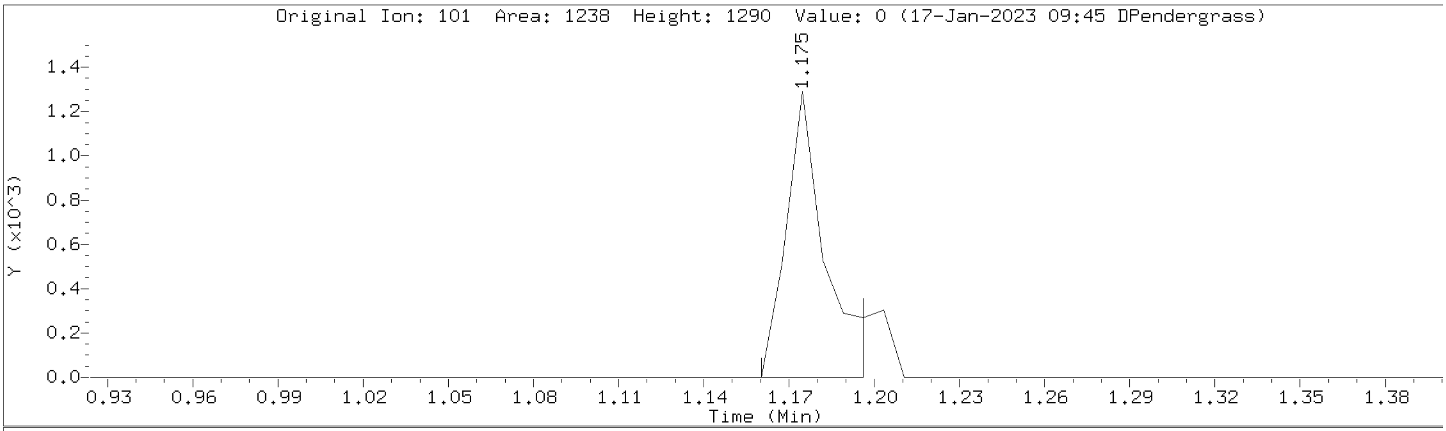
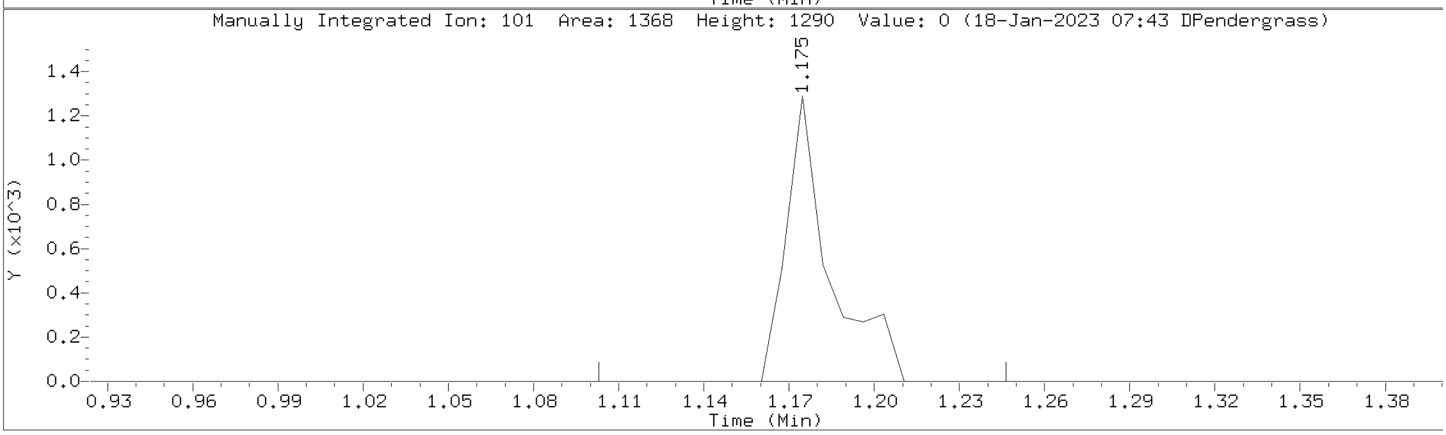
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5





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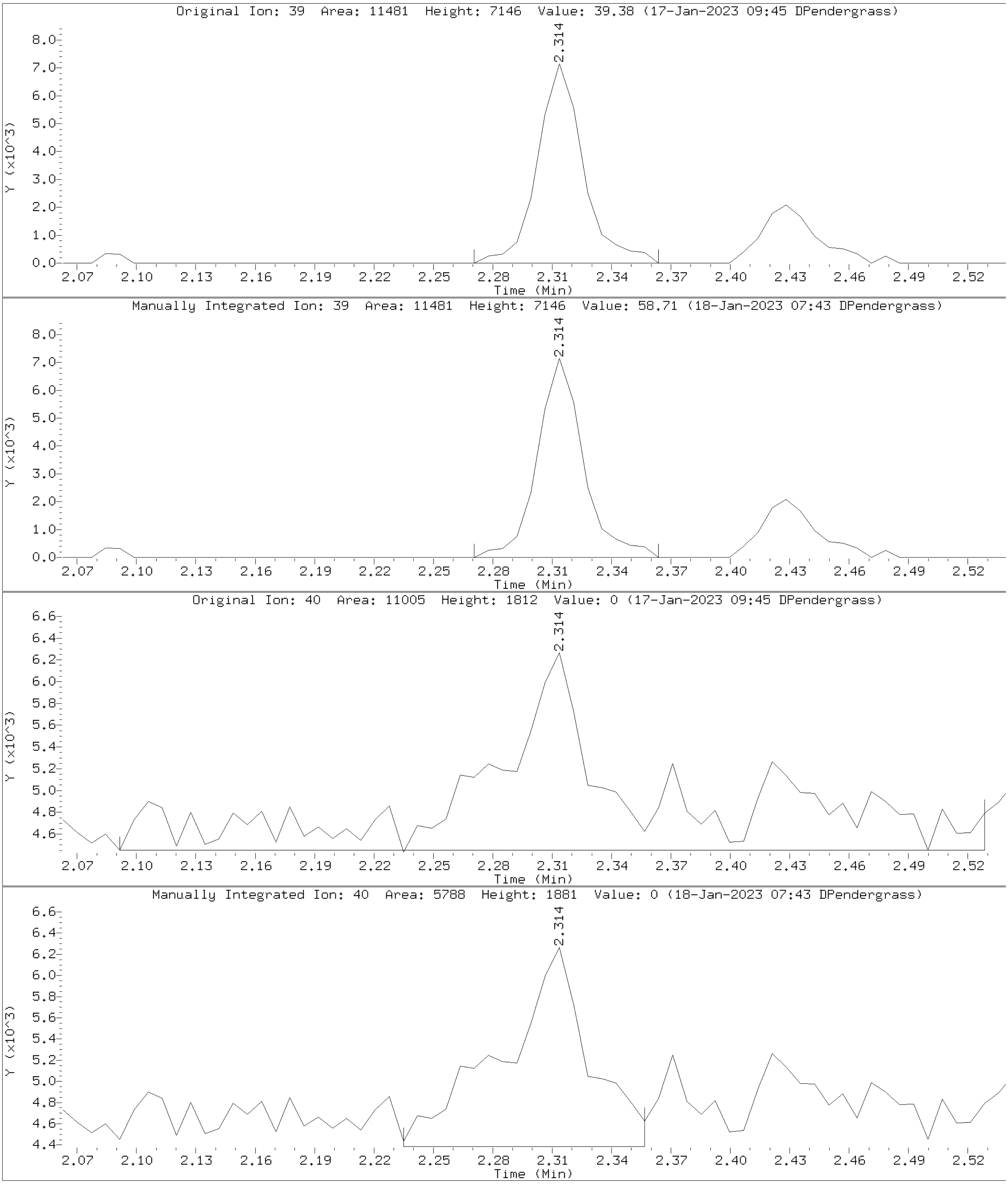
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: Acetonitrile   Review Code: LT
CAS Number: 75-05-8



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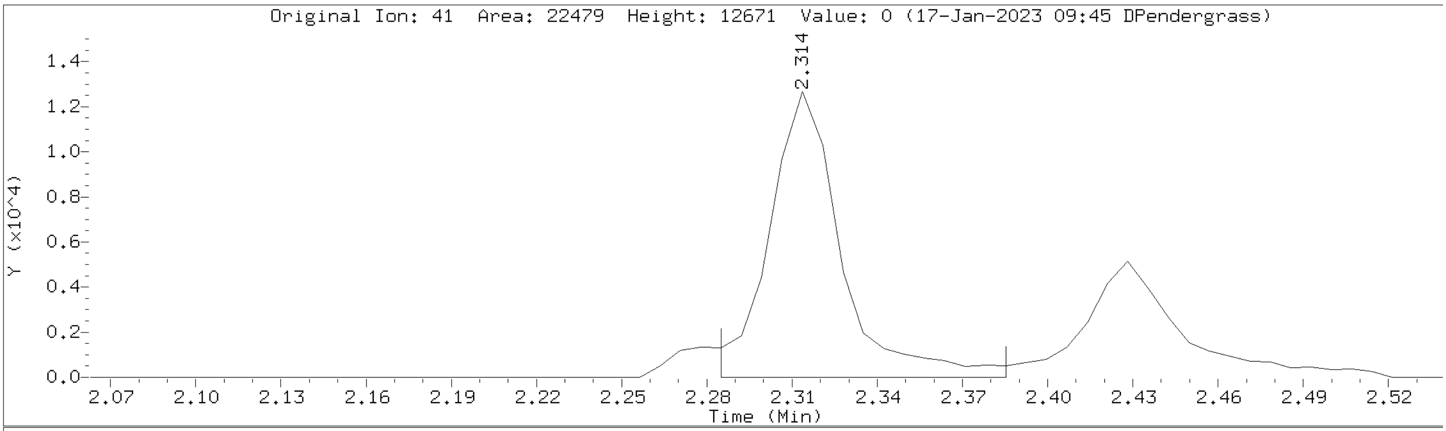
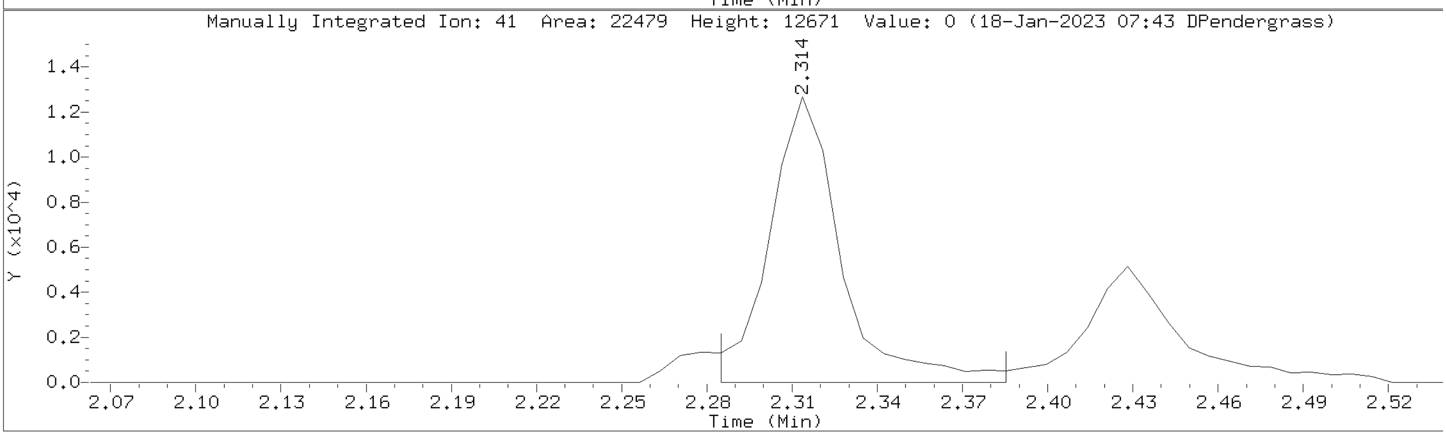
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5





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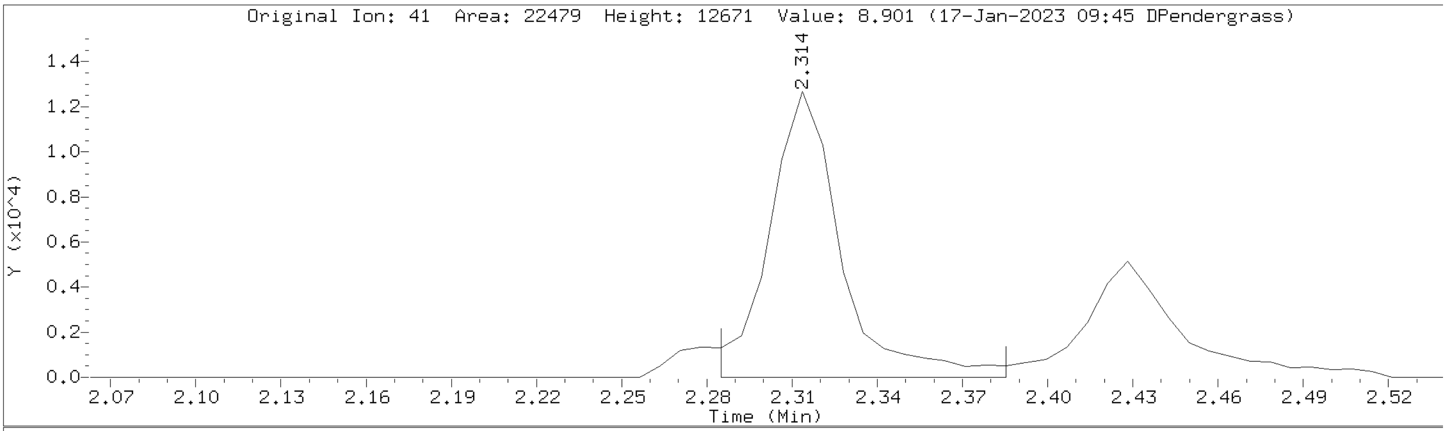
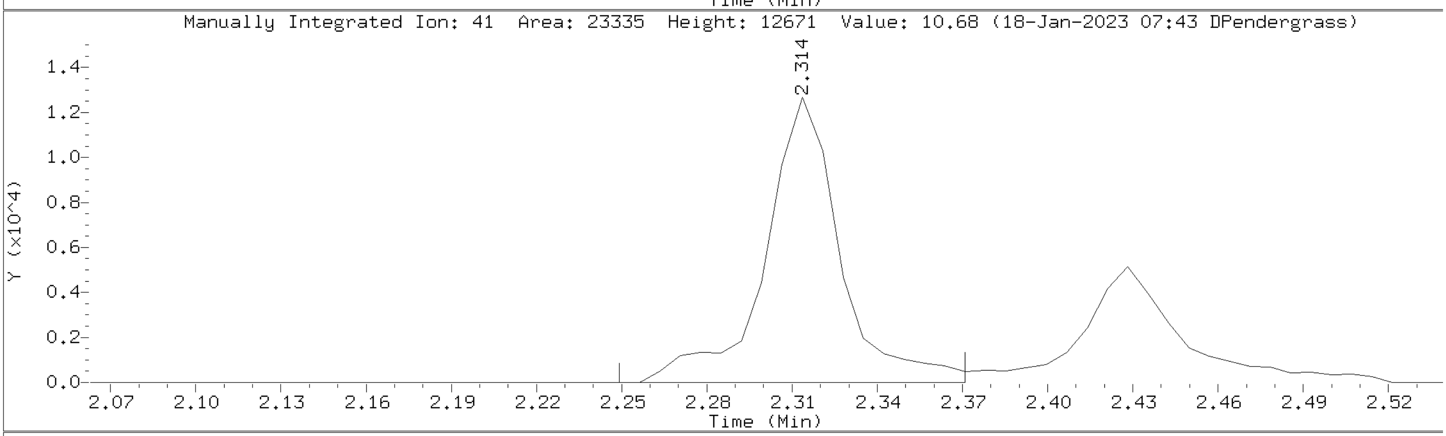
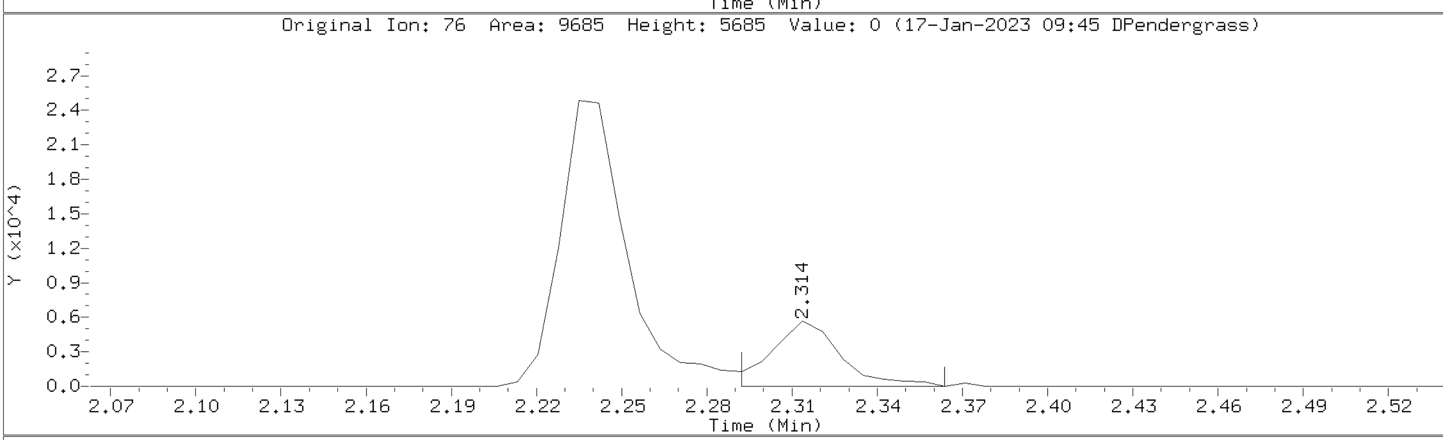
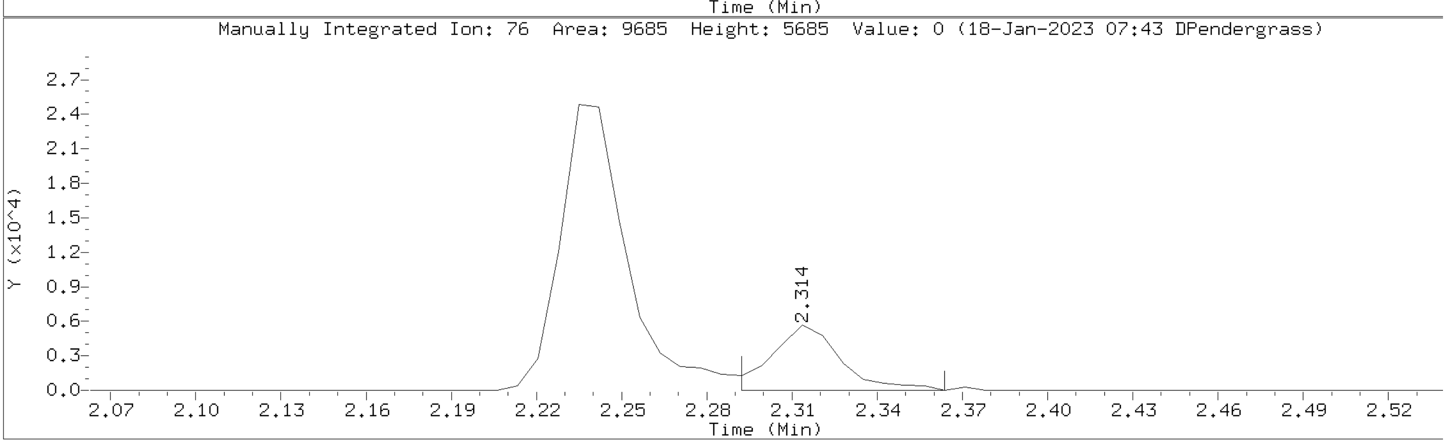
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: allyl chloride   Review Code: GT
CAS Number: 107-05-1



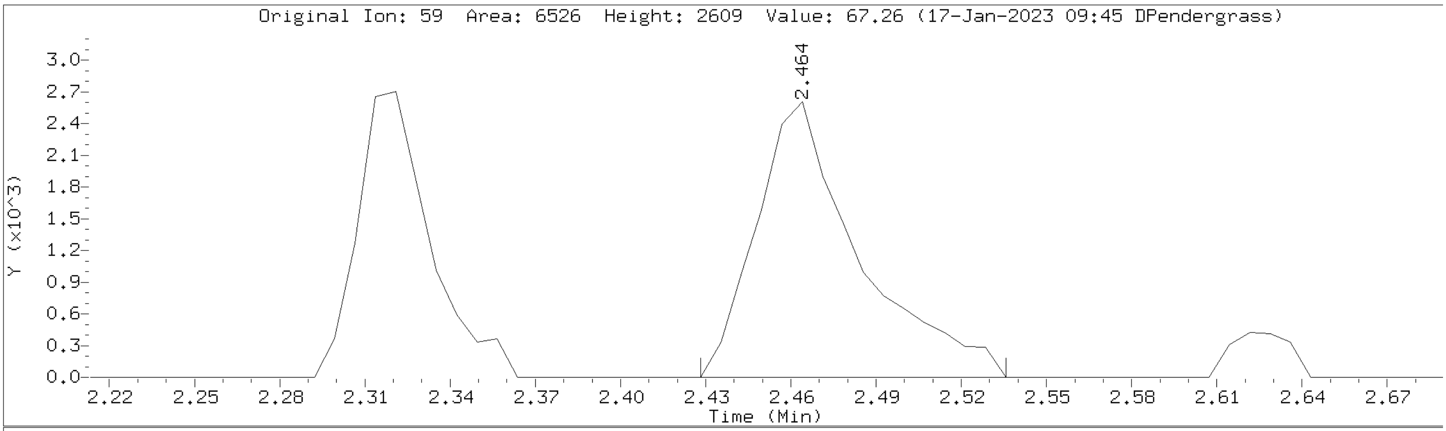


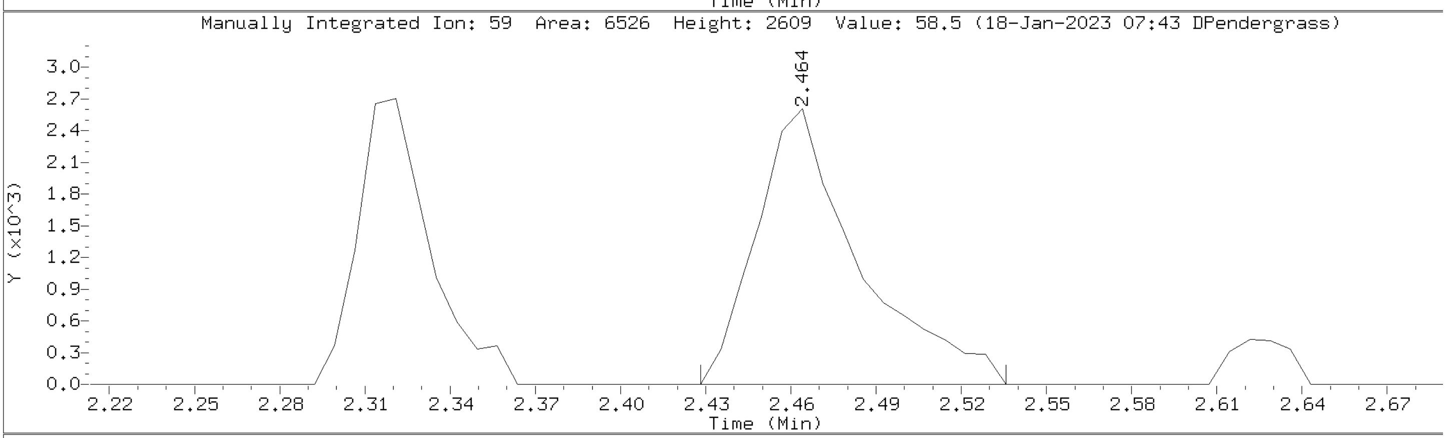


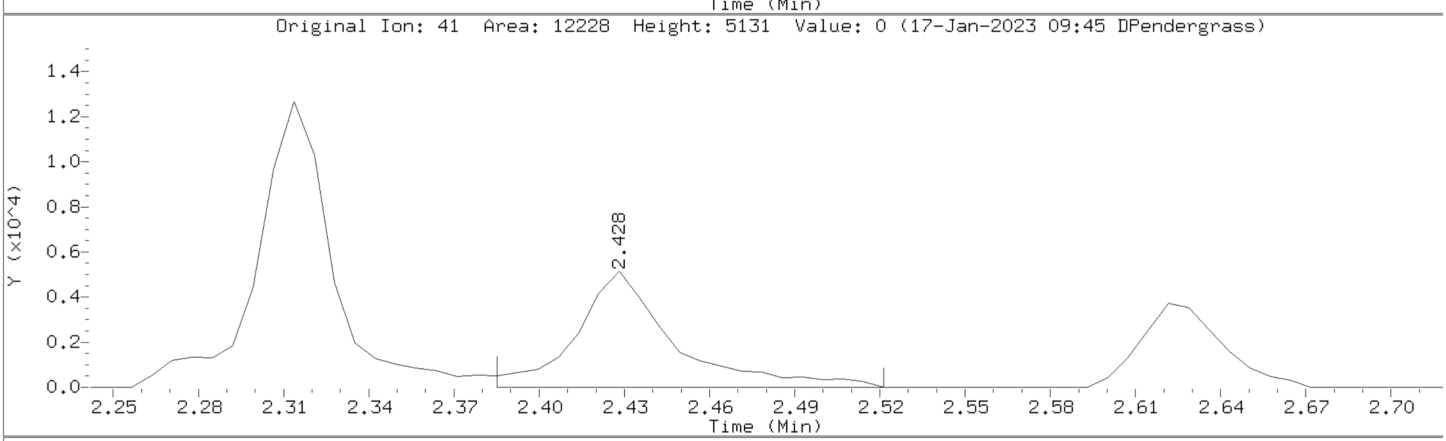


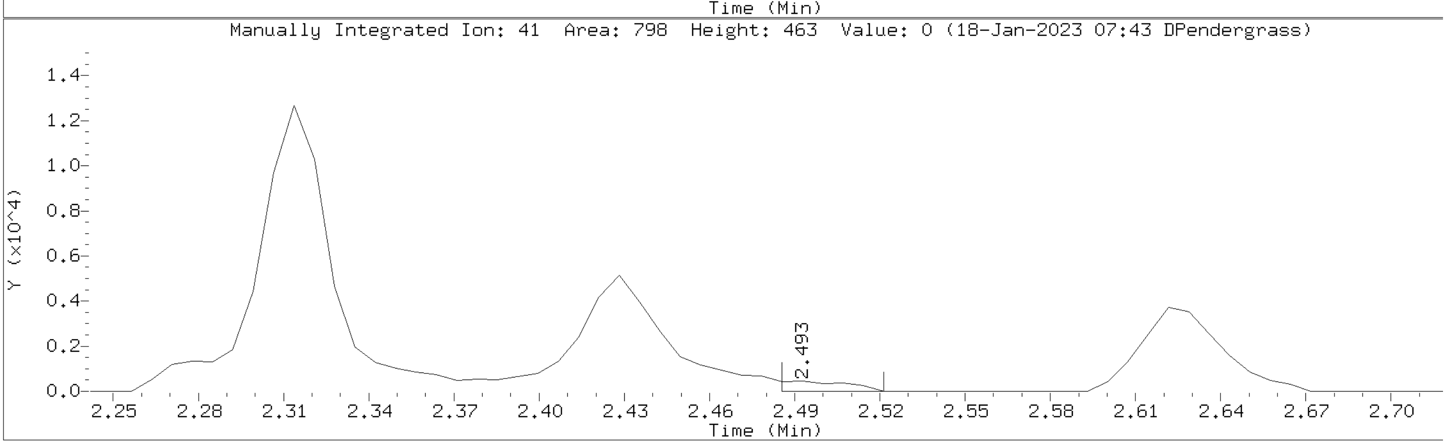
Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b/b05.d
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0









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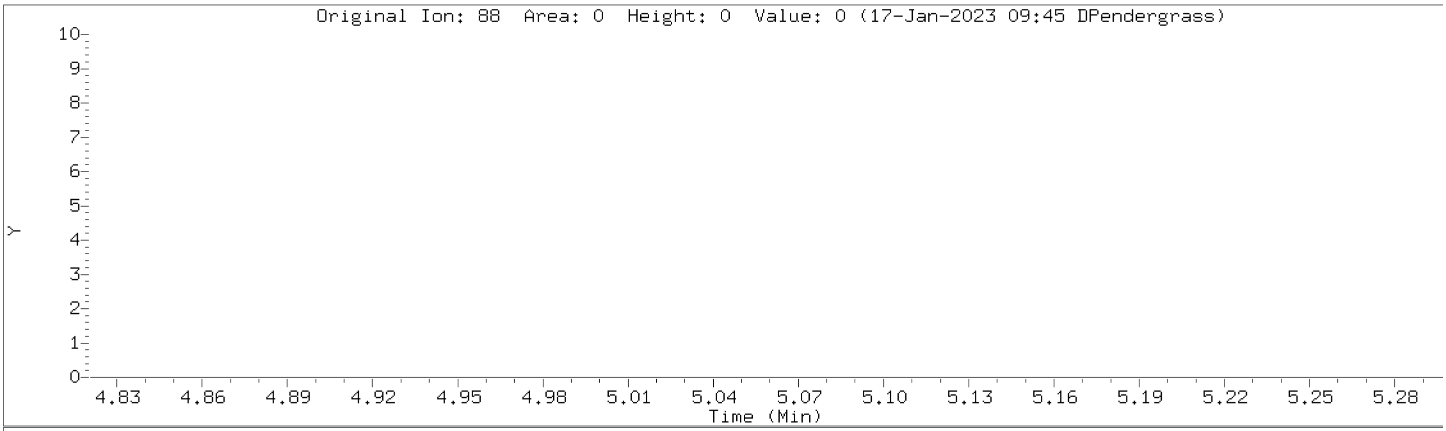
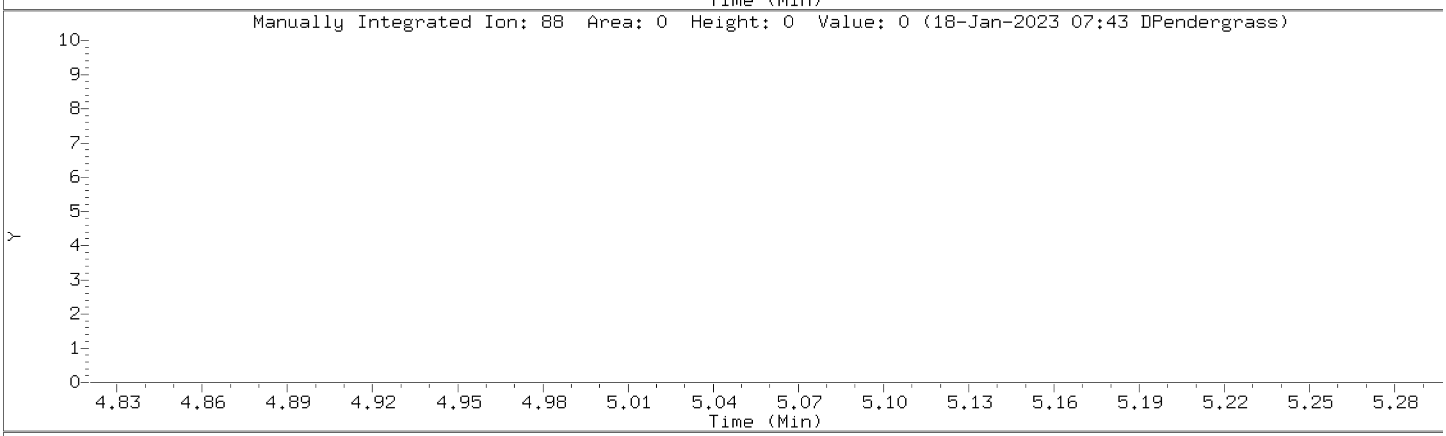
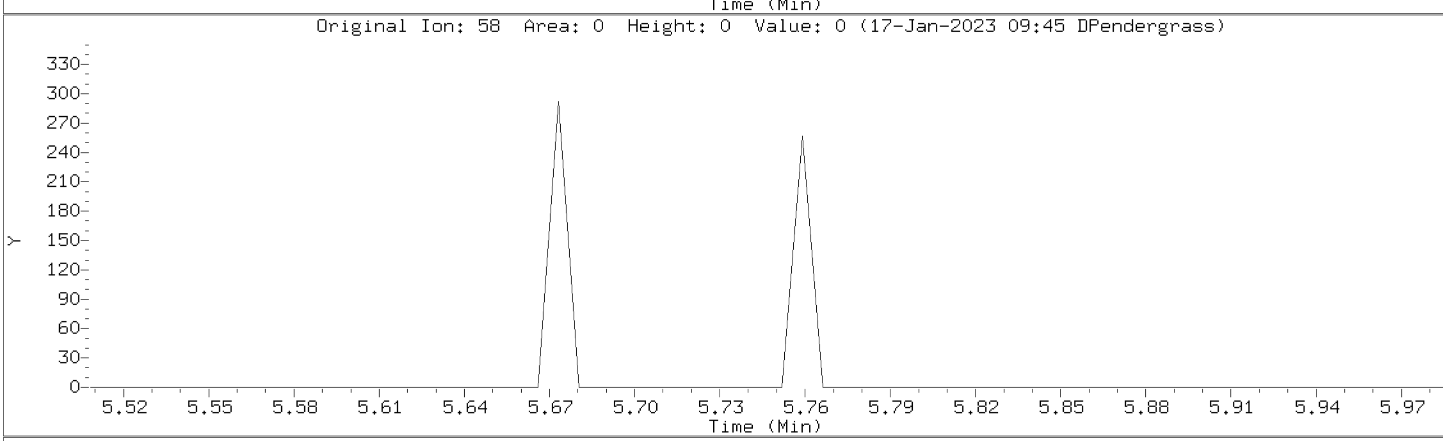
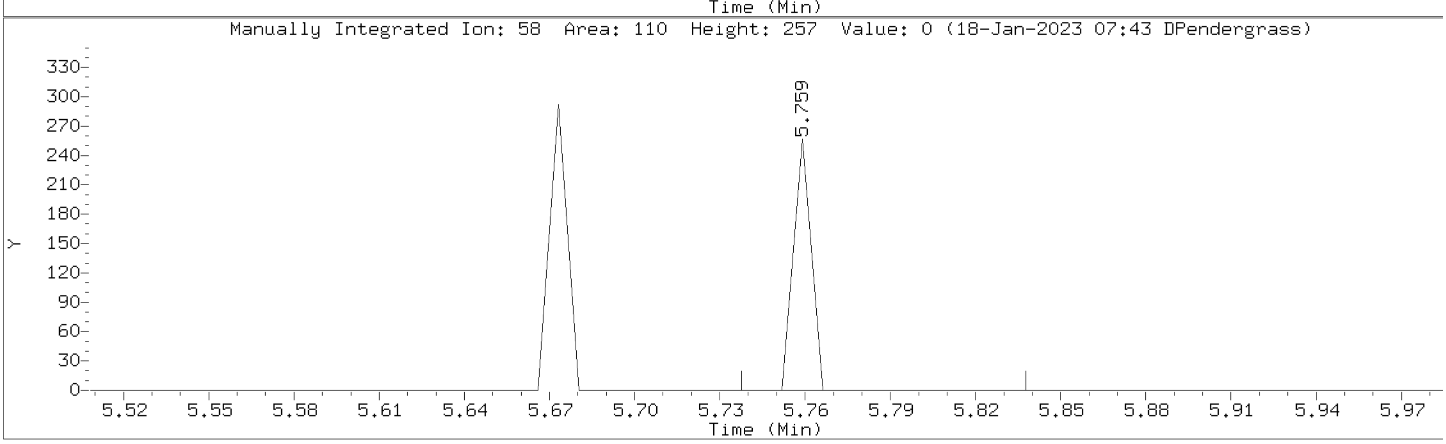
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: 1,4-Dioxane   Review Code: WP
CAS Number:









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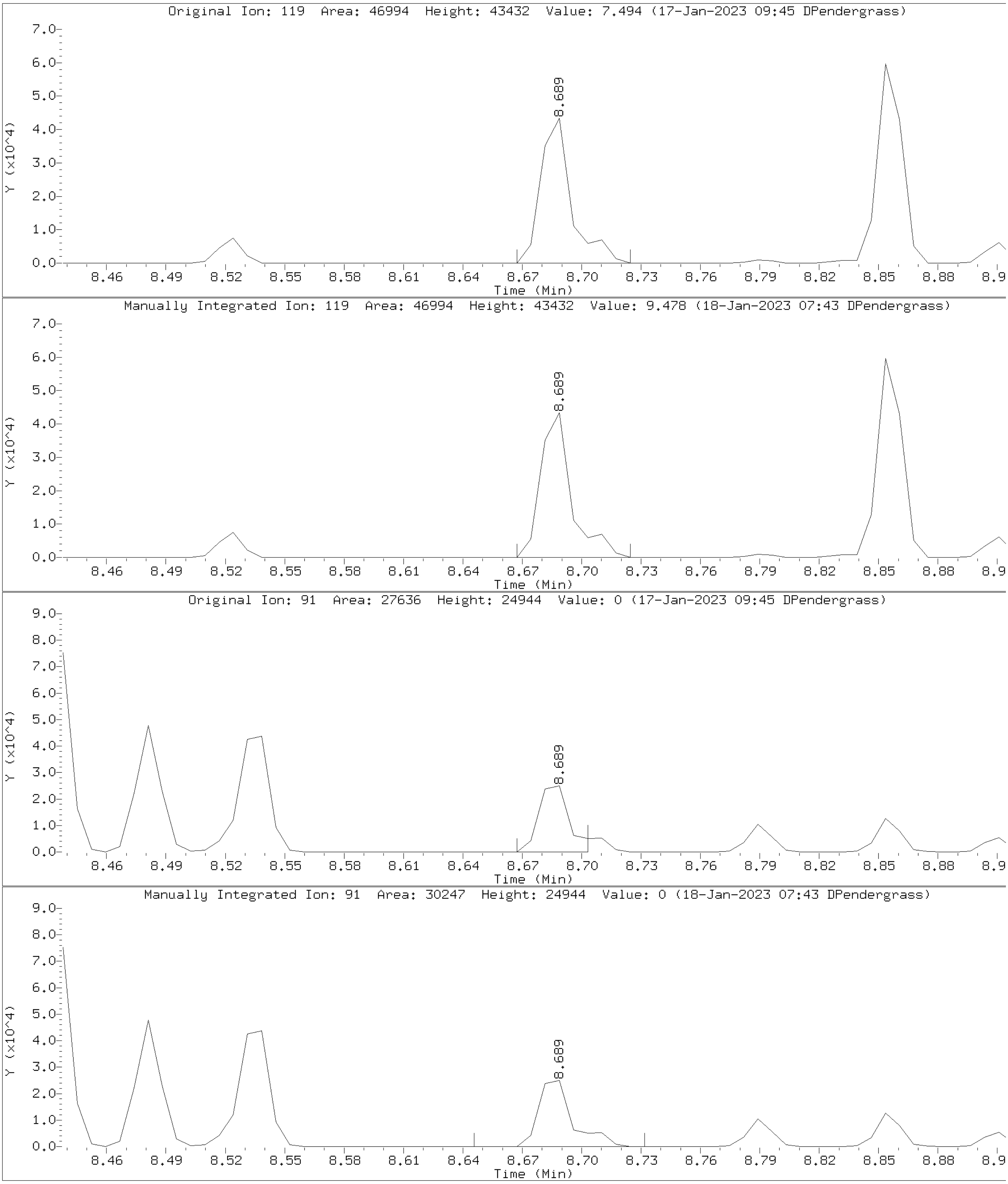
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butylbenzene   Review Code: GT
CAS Number: 98-06-6



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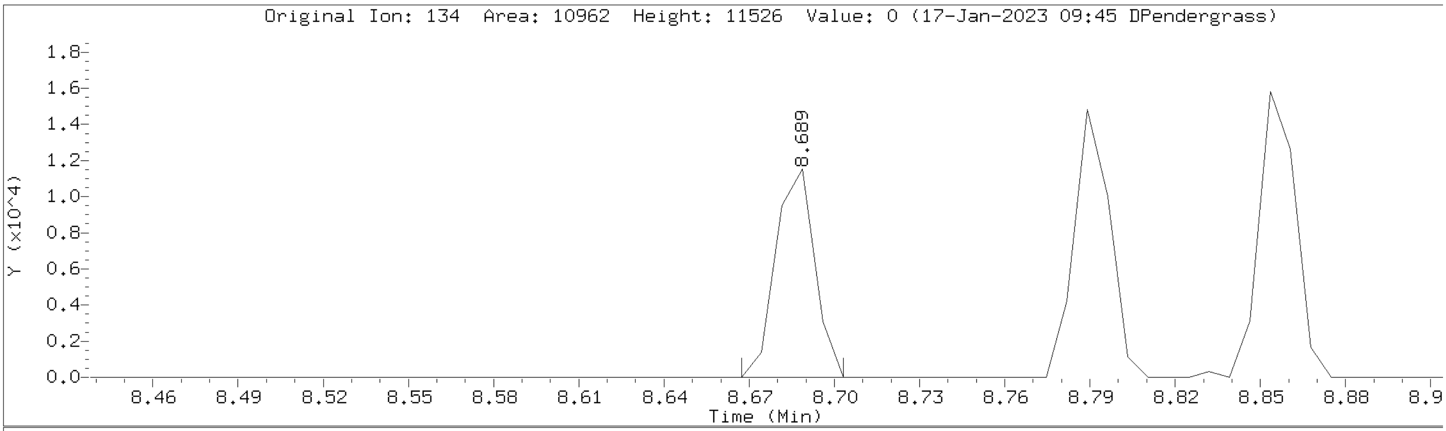
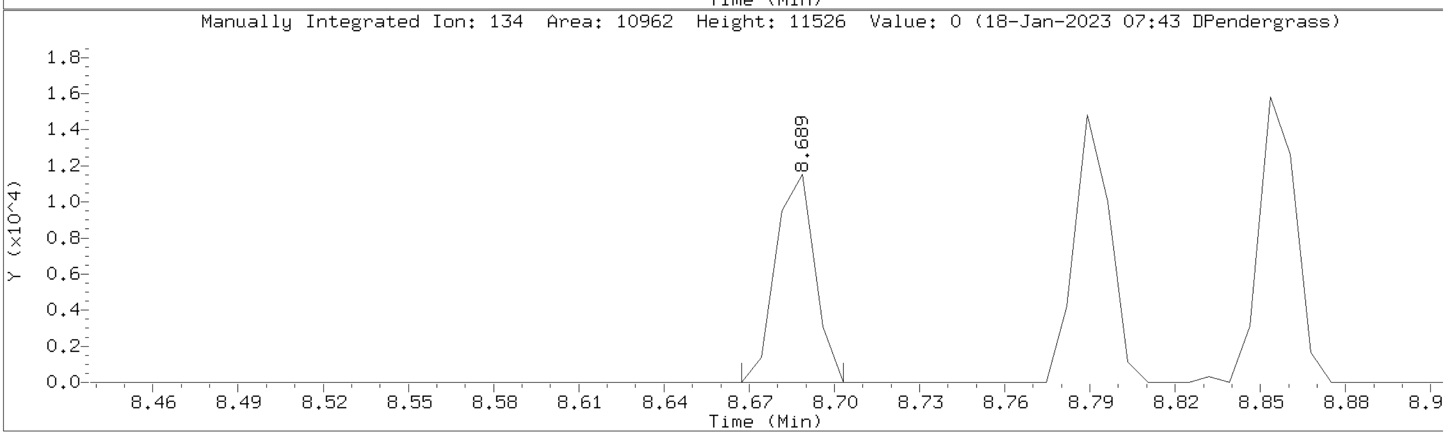
Lab Sample ID: 8260-CAL5





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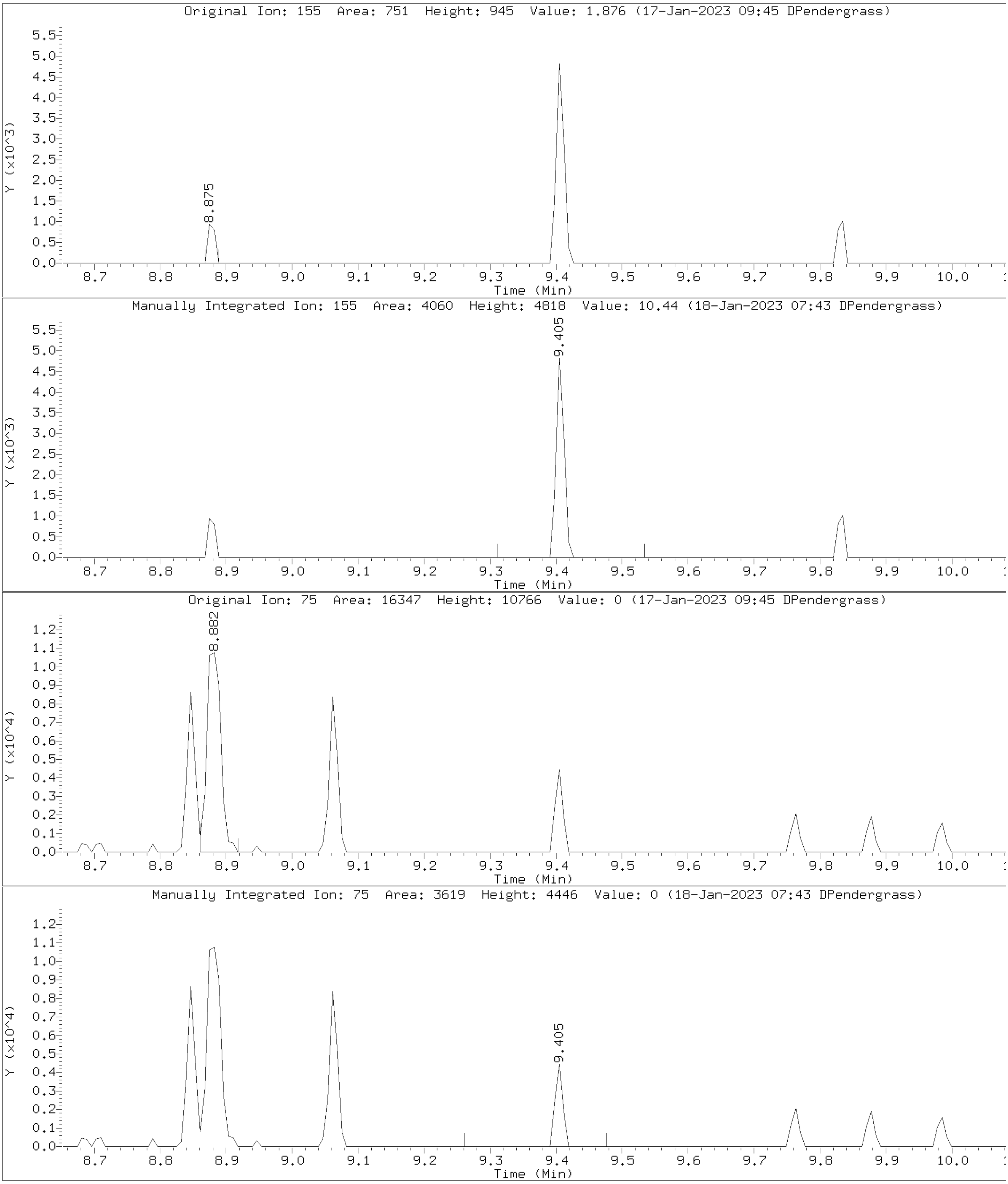
Injection Date: 16-JAN-2023 16:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL5

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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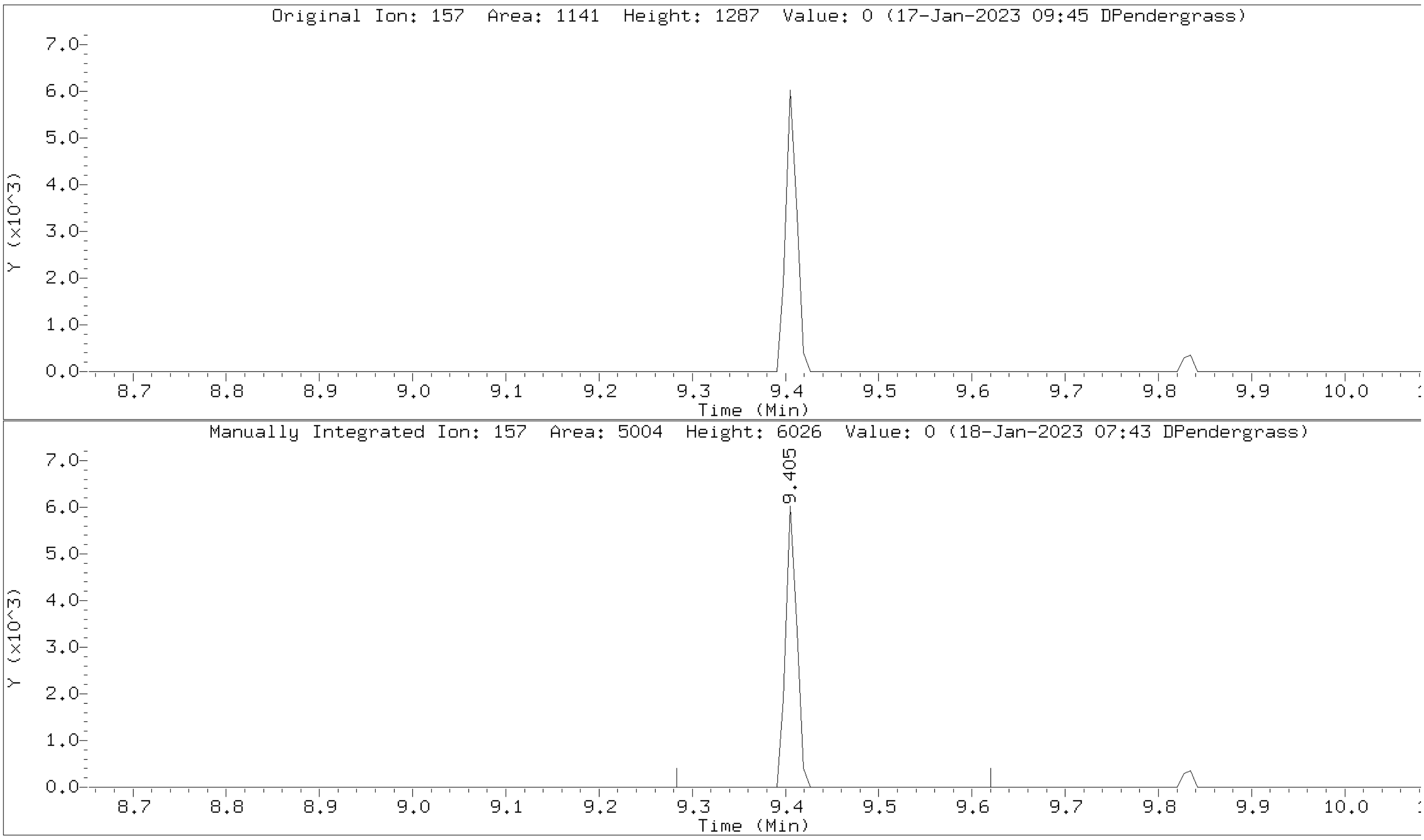

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b06.d
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Inj Date : 16-JAN-2023 17:04
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal6,335766:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.174	1.175	(0.236)	34447	20.0000	22.6	
2 Chloromethane	50	1.296	1.296	(0.260)	30504	20.0000	20.2	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	34047	20.0000	20.6	
4 Bromomethane	94	1.532	1.533	(0.307)	16142	20.0000	20.9	
5 Chloroethane	64	1.590	1.590	(0.319)	20656	20.0000	22.0	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	39635	20.0000	20.9	
7 Diethyl ether	74	1.912	1.912	(0.384)	16266	20.0000	18.2	
8 Acrolein	56	1.991	1.991	(0.399)	122067	400.000	436	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	25505	20.0000	20.1	
10 1,1-Dichloroethene	96	2.069	2.070	(0.415)	24117	20.0000	19.2	
11 Acetone	43	2.091	2.091	(0.420)	37370	100.000	91.0	
12 Iodomethane	142	2.184	2.177	(0.438)	34971	20.0000	19.7	
13 Carbon Disulfide	76	2.241	2.234	(0.450)	77251	20.0000	18.4	
14 Acetonitrile	39	2.313	2.313	(0.464)	23544	100.000	118(M)	LT
15 allyl chloride	41	2.313	2.314	(0.464)	44686	20.0000	19.4(M)	GT
16 Methyl Acetate	43	2.320	2.320	(0.466)	108073	100.000	97.6	
17 tert-Butyl Alcohol	59	2.463	2.464	(0.494)	12769	100.000	108(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	30171	20.0000	20.3	
19 Acrylonitrile	53	2.585	2.585	(0.519)	54224	100.000	106	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	72514	20.0000	18.0	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	26369	20.0000	18.4	
22 n-Hexane	57	2.872	2.872	(0.576)	35651	20.0000	20.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	3.001	2.994	(0.602)	43599	20.0000	17.8	
24 Vinyl Acetate	43	3.036	3.037	(0.609)	233772	80.0000	88.2	
25 Diisopropyl ether	45	3.065	3.065	(0.615)	74447	20.0000	18.4	
26 chloroprene	53	3.094	3.094	(0.621)	38084	20.0000	19.6	
27 Ethyl-tert-butyl ether	59	3.459	3.459	(0.694)	71896	20.0000	17.7	
28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	35817	20.0000	18.7	
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	28529	20.0000	17.9	
30 2-Butanone	43	3.631	3.624	(0.728)	61094	100.000	98.2	
31 Ethyl Acetate	88	3.717	3.710	(0.746)	7404	100.000	99.0	
32 Propionitrile	54	3.688	3.689	(0.740)	18593	100.000	104	
33 Methacrylonitrile	41	3.889	3.889	(0.780)	81199	100.000	102	
34 Bromochloromethane	49	3.903	3.903	(0.783)	19656	20.0000	18.3	
35 Tetrahydrofuran	42	3.982	3.982	(0.799)	46776	100.000	104	
36 Chloroform	83	4.011	4.011	(0.805)	43830	20.0000	17.7	
$ 37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	52272	50.0000	50.8	
38 1,1,1-Trichloroethane	97	4.247	4.240	(0.852)	38047	20.0000	18.6	
39 Cyclohexane	56	4.319	4.312	(0.866)	42152	20.0000	19.5	
40 Carbon Tetrachloride	117	4.440	4.441	(0.891)	34997	20.0000	19.6	
41 1,1-Dichloropropene	75	4.440	4.433	(0.891)	34516	20.0000	19.5	
42 Isobutyl alcohol	43	4.584	4.577	(0.920)	4496	100.000	108	
43 Benzene	78	4.670	4.670	(0.937)	107156	20.0000	17.6	
44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	31941	20.0000	20.5	
45 2,2,4-Trimethylpentane	57	4.784	4.777	(0.960)	66659	20.0000	19.4	
46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	70730	20.0000	17.8(M)	LT
* 47 Fluorobenzene	96	4.985	4.985	(1.000)	226474	50.0000		
48 Trichloroethene	95	5.379	5.379	(1.079)	27166	20.0000	17.8	
49 Methylcyclohexane	55	5.587	5.587	(1.121)	30312	20.0000	18.8	
50 1,2-Dichloropropane	63	5.608	5.601	(1.125)	25443	20.0000	18.4	
51 Dibromomethane	93	5.723	5.716	(1.148)	15247	20.0000	17.6	
52 Methyl methacrylate	69	5.758	5.759	(1.155)	21112	20.0000	19.1	
53 1,4-Dioxane	88	5.766	5.071	(1.157)	1038	400.000	269	
54 Bromodichloromethane	83	5.887	5.888	(1.181)	31572	20.0000	18.6	
55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.813)	90384	100.000	94.0	
56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.831)	42029	20.0000	16.4	
57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.851)	144749	100.000	96.5	
$ 58 Toluene-d8	98	6.589	6.589	(0.863)	224448	50.0000	47.4	
59 Toluene	91	6.647	6.647	(0.871)	120498	20.0000	17.1	
60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.894)	40136	20.0000	17.7	
61 Ethyl Methacrylate	69	6.919	6.919	(0.906)	38441	20.0000	18.7	
62 1,1,2-Trichloroethane	83	6.969	6.962	(0.913)	20840	20.0000	17.7	
63 Tetrachloroethene	166	7.076	7.077	(0.927)	34919	20.0000	18.3	
64 1,3-Dichloropropane	76	7.091	7.091	(0.929)	43605	20.0000	17.4	
65 2-Hexanone	43	7.162	7.163	(0.938)	110615	100.000	100	
66 Dibromochloromethane	129	7.248	7.248	(0.949)	29345	20.0000	17.7	
67 1,2-Dibromoethane	107	7.320	7.320	(0.959)	27485	20.0000	18.0	
* 68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	182744	50.0000		
69 Chlorobenzene	112	7.649	7.650	(1.002)	84420	20.0000	18.3	
70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.008)	28648	20.0000	18.0	
71 Ethylbenzene	106	7.721	7.721	(1.011)	45470	20.0000	18.9	
72 m&p-Xylene	106	7.793	7.793	(1.021)	57630	20.0000	18.9	
73 o-Xylene	106	8.022	8.022	(1.051)	55295	20.0000	19.7	
74 Styrene	104	8.029	8.022	(1.052)	93027	20.0000	19.5	
75 Bromoform	173	8.129	8.130	(0.915)	23379	20.0000	18.4	
76 Isopropylbenzene	105	8.223	8.223	(1.077)	139082	20.0000	19.9	

Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b06.d Page 3
Report Date: 30-Jan-2023 10:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.087)	82244	50.0000	47.8	
78 Bromobenzene	77	8.380	8.380	(1.098)	60910	20.0000	17.5	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.943)	36571	20.0000	17.6	
80 1,2,3-Trichloropropane	110	8.394	8.395	(0.945)	11727	20.0000	17.9	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.100)	10790	20.0000	19.7	
82 n-Propylbenzene	91	8.437	8.438	(0.950)	152921	20.0000	19.2	
83 2-Chlorotoluene	91	8.480	8.481	(0.955)	89058	20.0000	18.3	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	108037	20.0000	19.5	
85 4-Chlorotoluene	126	8.538	8.538	(0.961)	34727	20.0000	19.0	
86 tert-Butylbenzene	119	8.688	8.689	(0.978)	105059	20.0000	19.1	
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	107875	20.0000	19.2	
88 sec-Butylbenzene	105	8.788	8.789	(0.990)	129866	20.0000	19.4	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.996)	62110	20.0000	18.7	
90 p-Isopropyltoluene	119	8.853	8.853	(0.997)	113459	20.0000	19.5	
* 91 1,4-Dichlorobenzene-d4	152	8.882	8.874	(1.000)	99018	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.001)	63272	20.0000	18.6	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.003)	106368	20.0000	18.9	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	89909	20.0000	19.0	
95 1,2-Dichlorobenzene	146	9.068	9.061	(1.021)	56491	20.0000	17.9	
96 Hexachloroethane	201	9.190	9.190	(1.035)	16679	20.0000	18.2	
97 1,2-Dibromo-3-chloropropane	155	9.404	9.405	(1.059)	7962	20.0000	18.5(H)	
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.099)	32371	20.0000	18.4	
99 Hexachlorobutadiene	225	9.834	9.834	(1.107)	15629	20.0000	18.2	
100 Naphthalene	128	9.877	9.877	(1.112)	95422	20.0000	19.2	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.124)	27264	20.0000	19.0	
102 2,methyl-naphthalene	142	10.414	10.415	(1.173)	8488	20.0000	23.6	
103 1-Methylnaphthalene	142	10.522	10.522	(1.185)	5137	20.0000	24.1	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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).
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\50mvcb.i\b011623cal.b\b06.d

Date : 16-JAN-2023 17:04

Client ID: 8260-CAL6

Sample Info: 8260-CAL6,335766:0

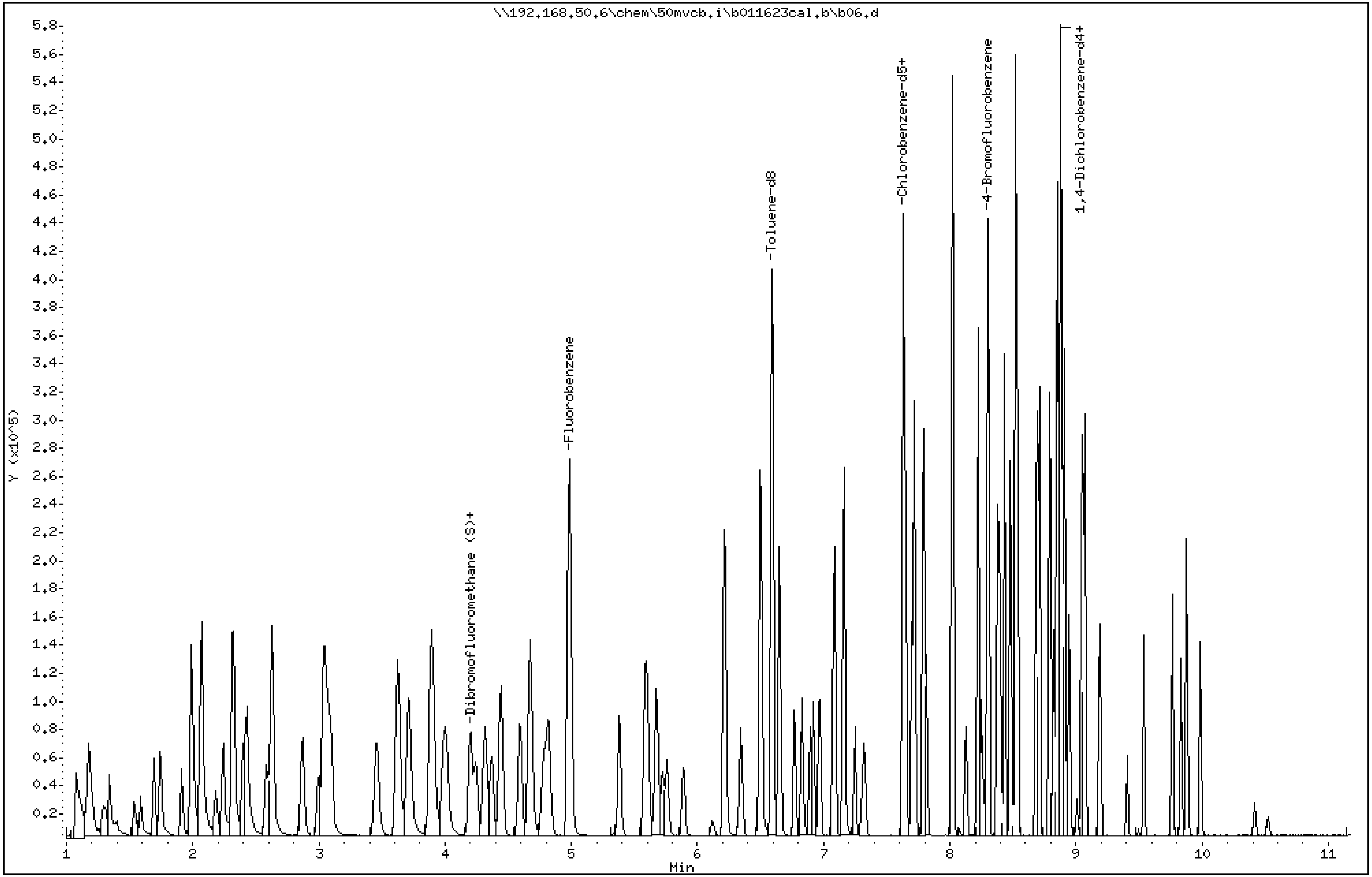
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvcb.i

Operator: DAP

Column diameter: 0.18



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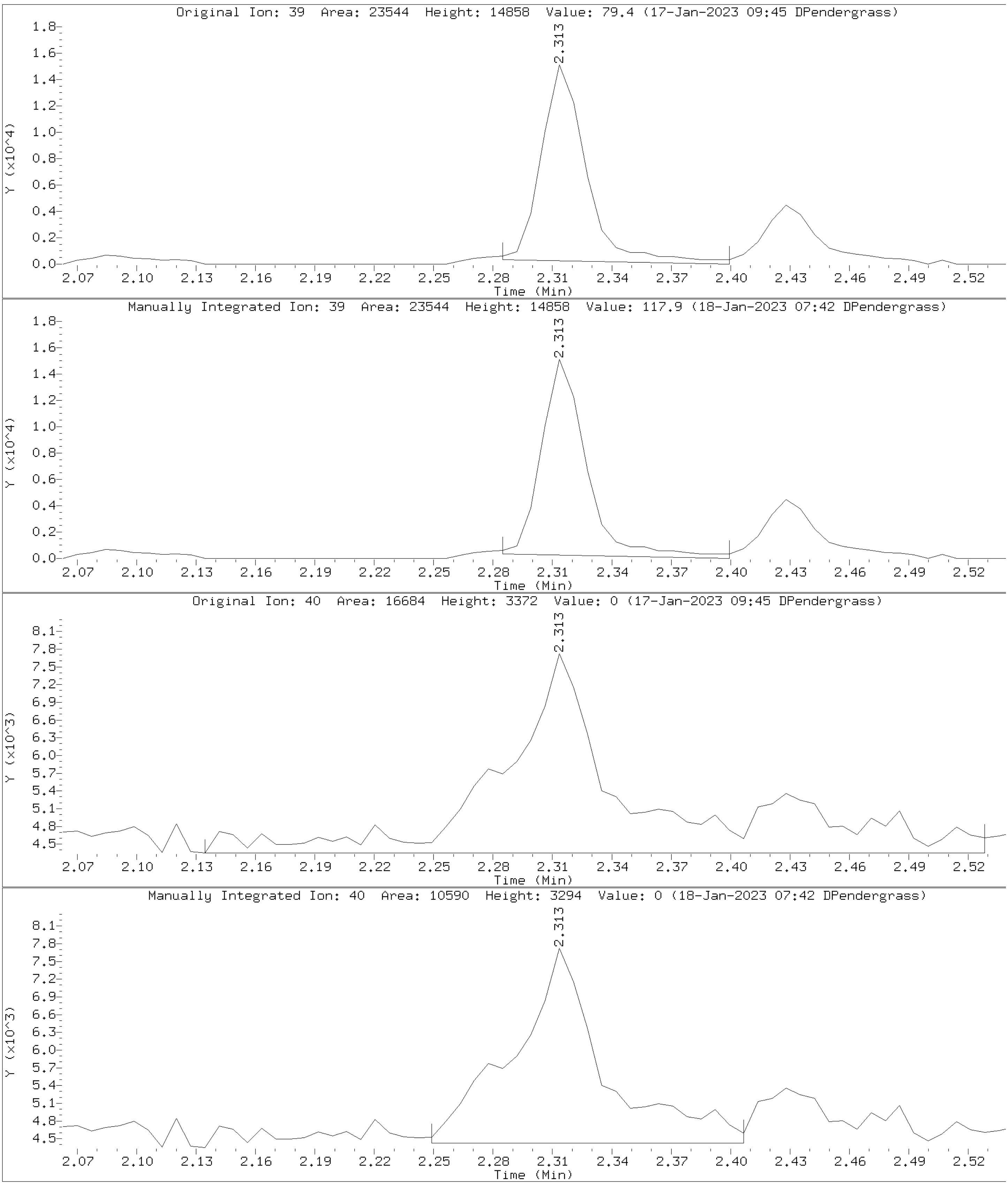
Injection Date: 16-JAN-2023 17:04
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL6

Compound: Acetonitrile Review Code: LT
CAS Number: 75-05-8



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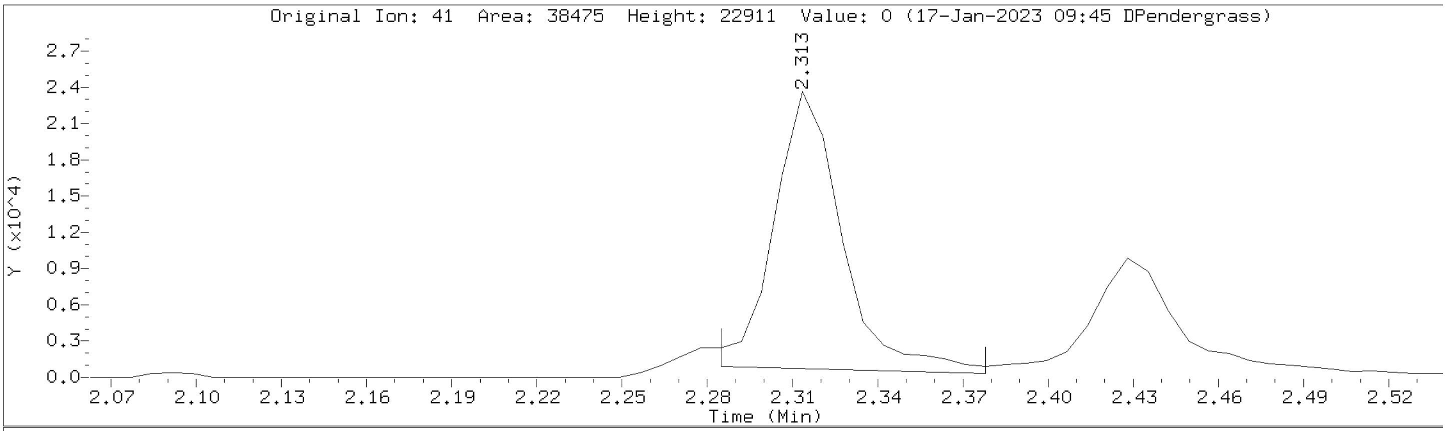
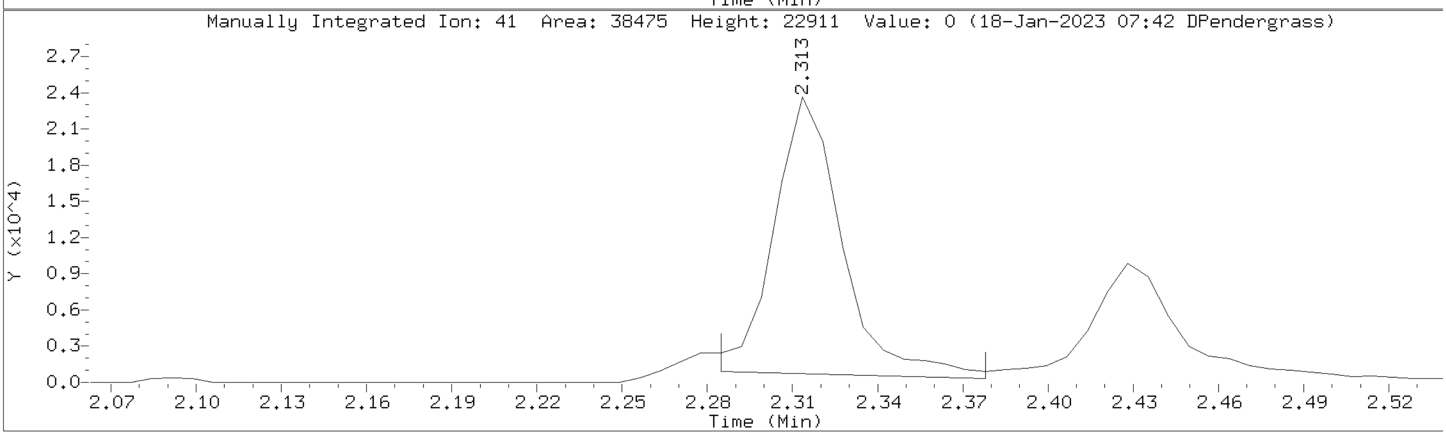
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL6





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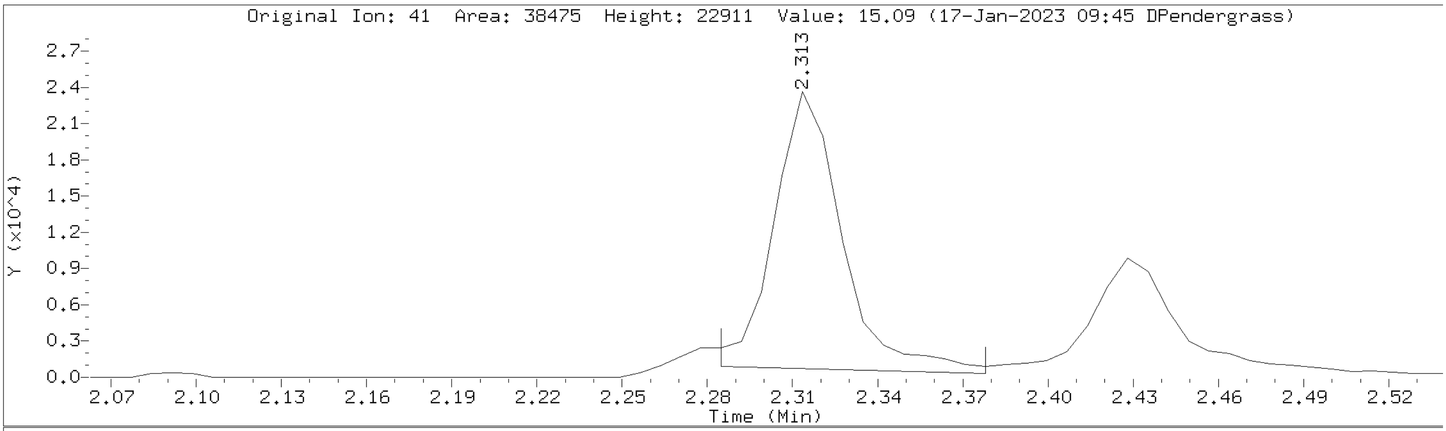
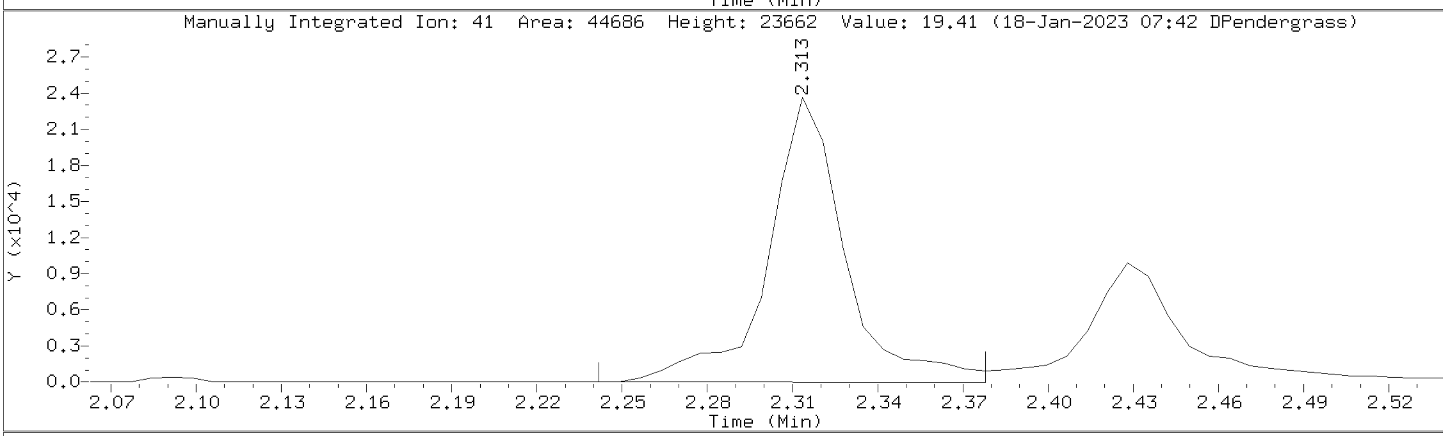
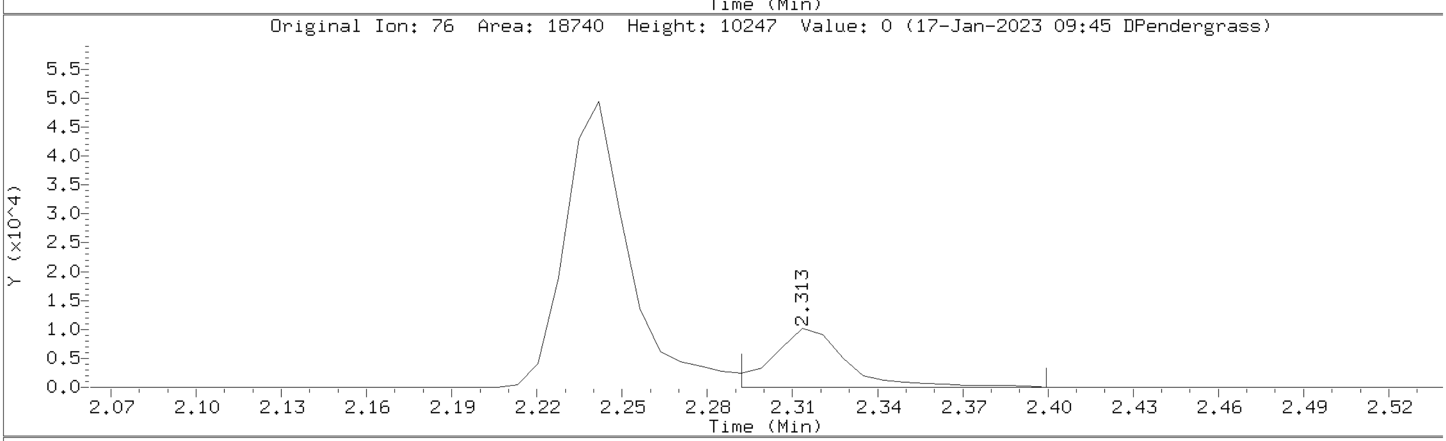
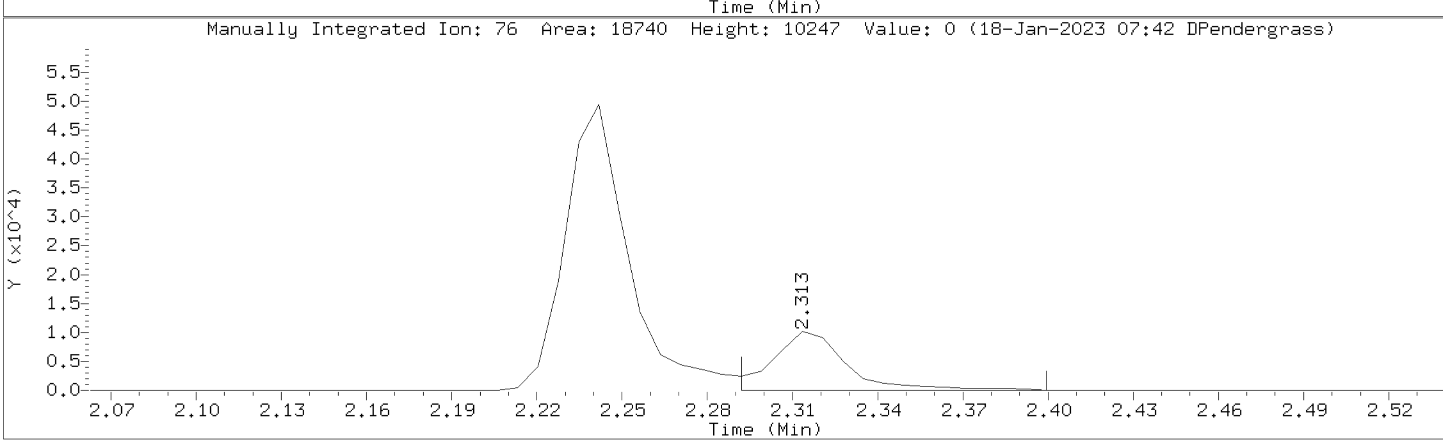
Injection Date: 16-JAN-2023 17:04
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL6

Compound: allyl chloride   Review Code: GT
CAS Number: 107-05-1









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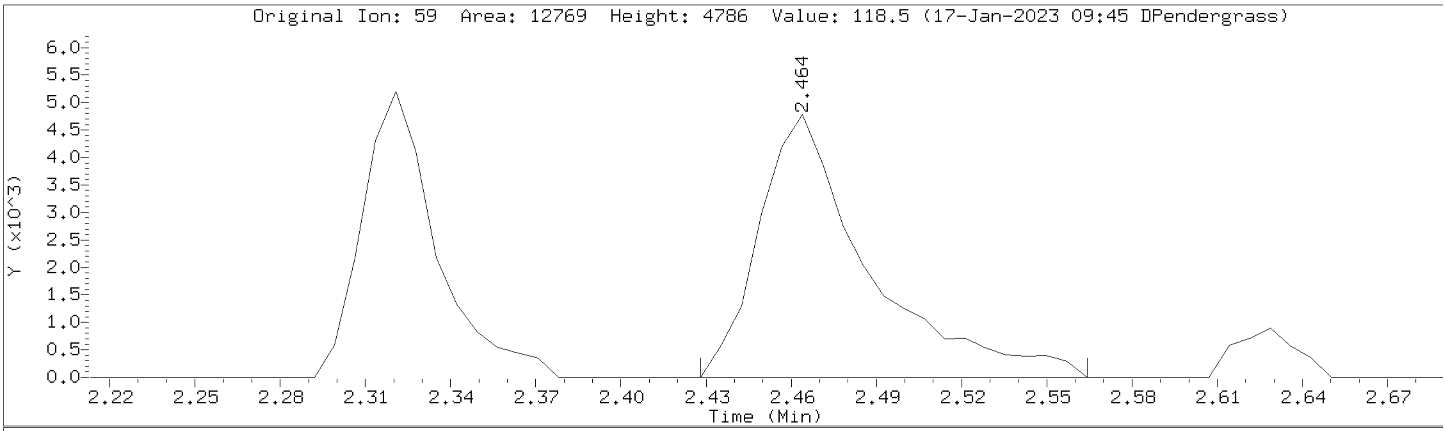
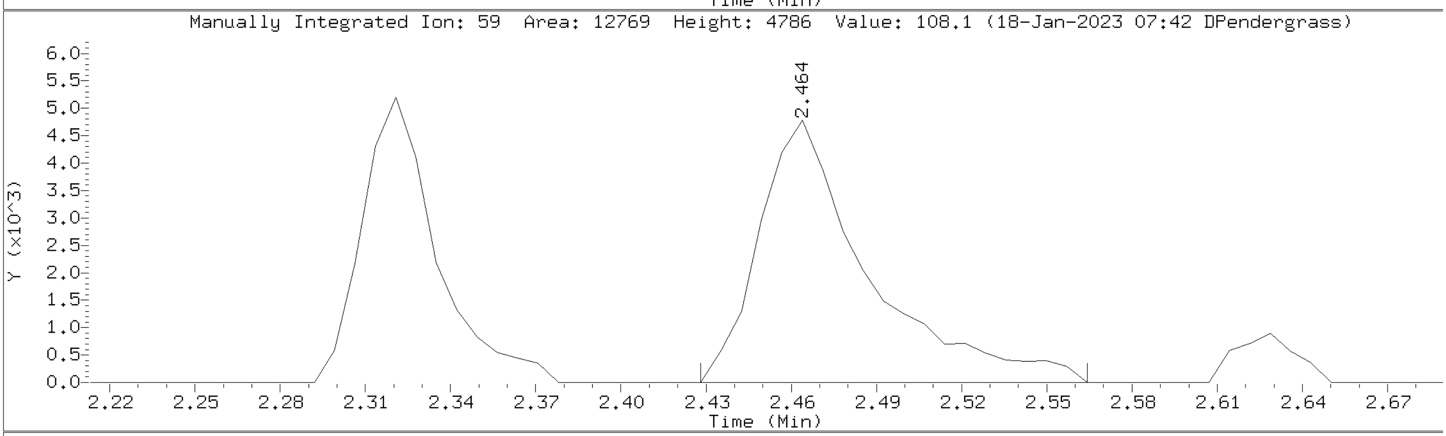
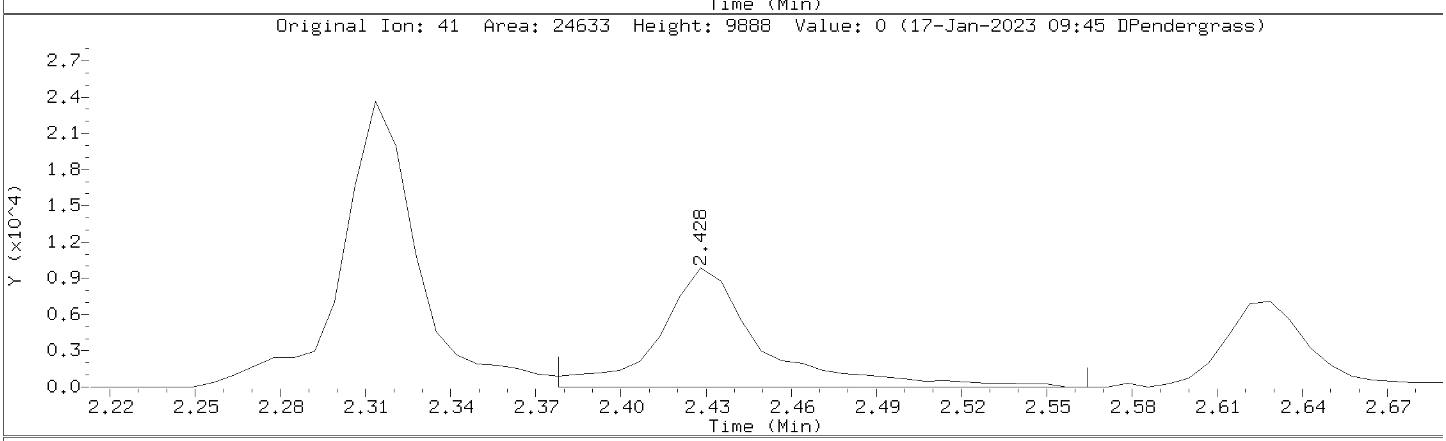
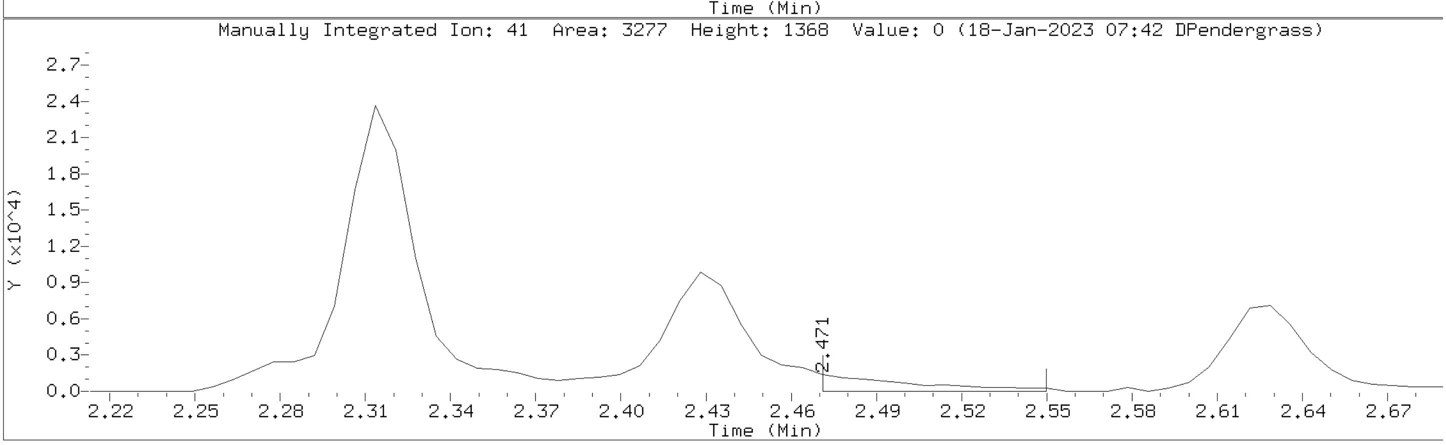
Injection Date: 16-JAN-2023 17:04
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0









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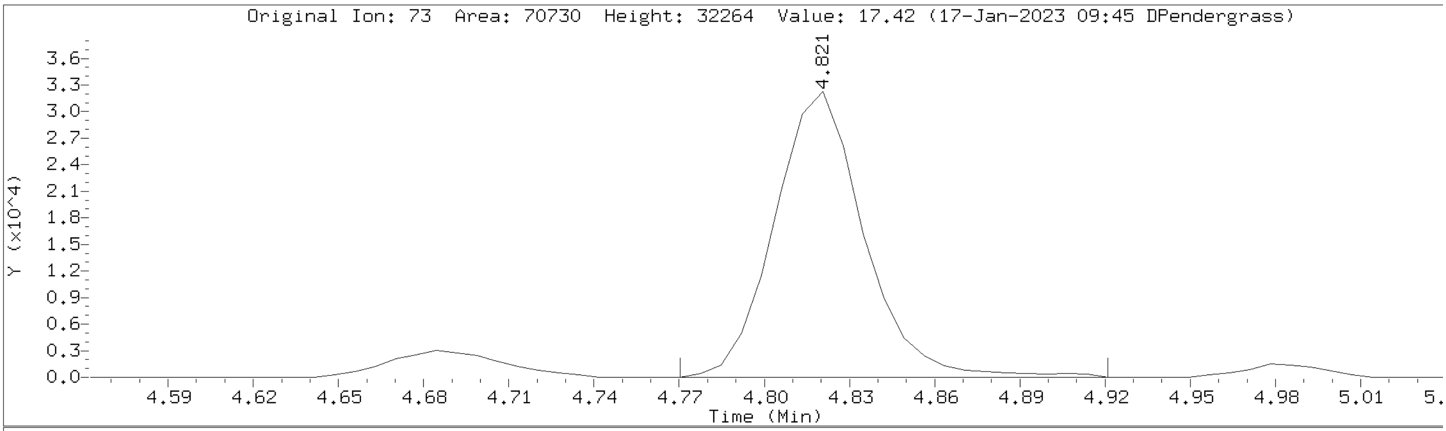
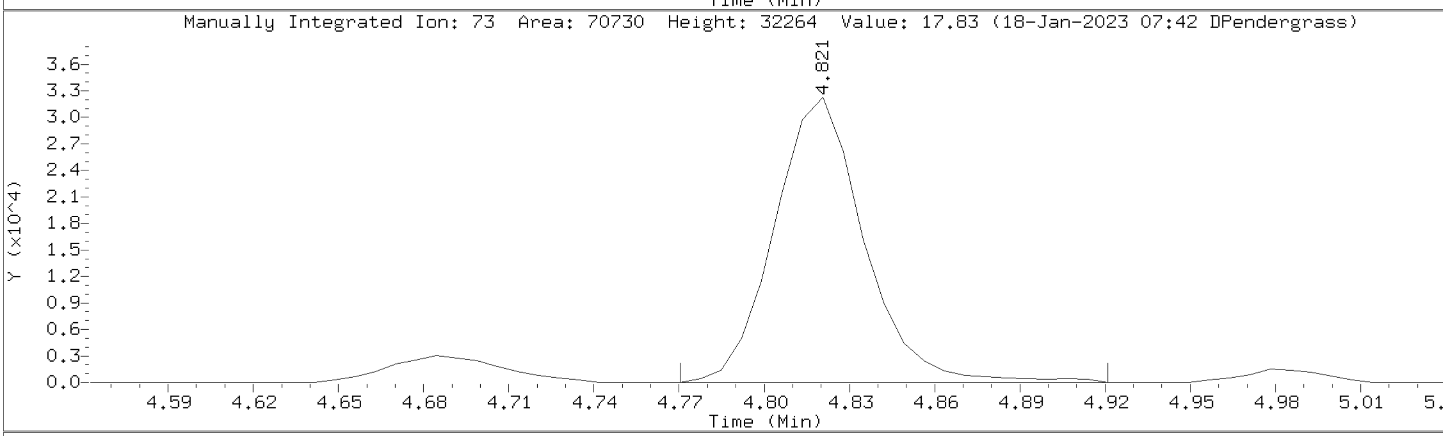
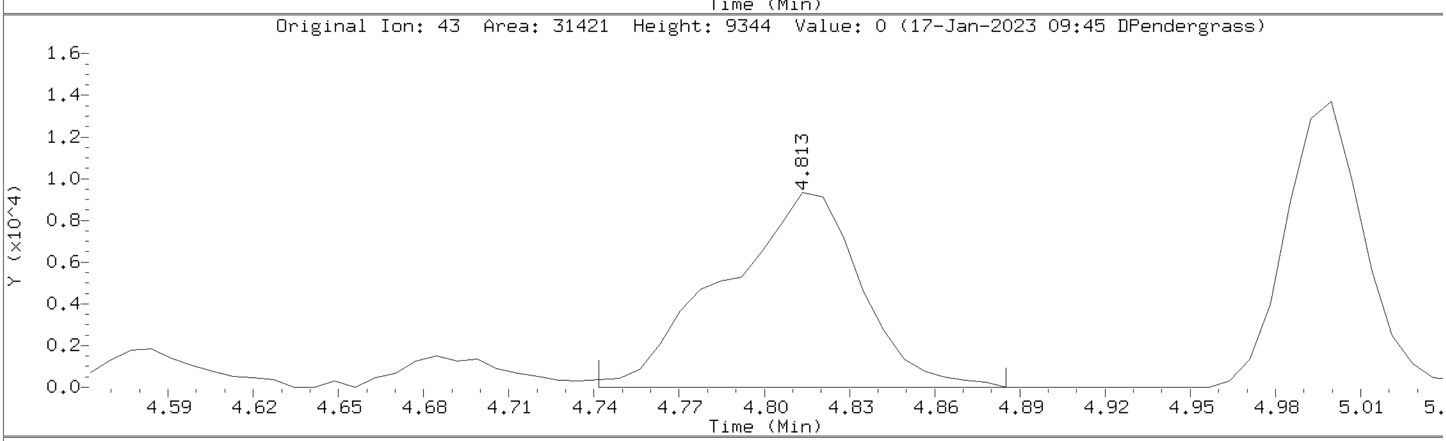
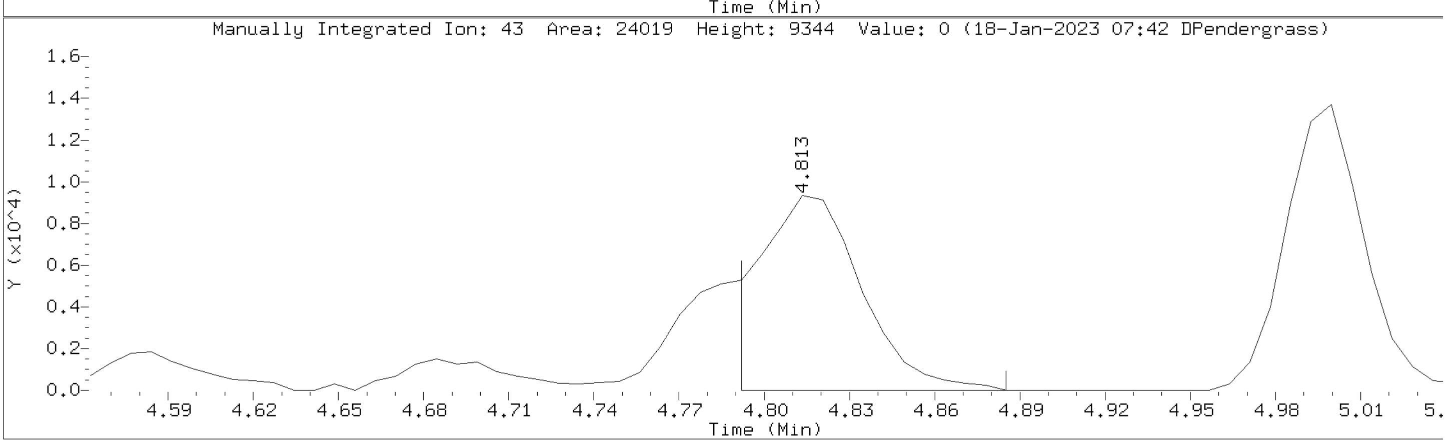
Injection Date: 16-JAN-2023 17:04
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL6

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b07.d
Lab Smp Id: 8260-CAL7 Client Smp ID: 8260-CAL7
Inj Date : 16-JAN-2023 17:36
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal7,335767:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 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	1.174	1.175	(0.236)	86447	50.0000	52.7	
2 Chloromethane	50	1.303	1.296	(0.261)	78037	50.0000	48.0	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	88388	50.0000	49.7	
4 Bromomethane	94	1.532	1.533	(0.307)	42424	50.0000	51.1	
5 Chloroethane	64	1.589	1.590	(0.319)	50174	50.0000	49.5	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	106794	50.0000	52.3	
7 Diethyl ether	74	1.912	1.912	(0.384)	44602	50.0000	46.4	
8 Acrolein	56	1.991	1.991	(0.399)	316225	1000.00	1050	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	70400	50.0000	51.6	
10 1,1-Dichloroethene	96	2.069	2.070	(0.415)	68039	50.0000	50.2	
11 Acetone	43	2.091	2.091	(0.419)	105037	250.000	237	
12 Iodomethane	142	2.184	2.177	(0.438)	102390	50.0000	53.7	
13 Carbon Disulfide	76	2.241	2.234	(0.450)	216072	50.0000	47.8	
14 Acetonitrile	39	2.313	2.313	(0.464)	65185	250.000	310(M)	LT
15 allyl chloride	41	2.313	2.314	(0.464)	121400	50.0000	50.3(M)	NI
16 Methyl Acetate	43	2.320	2.320	(0.465)	290922	250.000	244	
17 tert-Butyl Alcohol	59	2.463	2.464	(0.494)	32141	250.000	253(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	75040	50.0000	49.8	
19 Acrylonitrile	53	2.585	2.585	(0.519)	148980	250.000	270	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	206521	50.0000	47.6	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	76265	50.0000	49.3	
22 n-Hexane	57	2.872	2.872	(0.576)	101061	50.0000	53.2	
23 1,1-Dichloroethane	63	2.993	2.994	(0.601)	124158	50.0000	47.0	

		QUANT SIG					AMOUNTS		
							CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	24 Vinyl Acetate	43	3.036	3.037	(0.609)	624237	200.000	218	
	25 Diisopropyl ether	45	3.065	3.065	(0.615)	212530	50.0000	48.9	
	26 chloroprene	53	3.094	3.094	(0.621)	109065	50.0000	52.2	
	27 Ethyl-tert-butyl ether	59	3.452	3.459	(0.693)	204952	50.0000	46.8	
	28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	101503	50.0000	49.1	
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	81626	50.0000	47.6	
	30 2-Butanone	43	3.631	3.624	(0.728)	165939	250.000	248(M)	NI
	31 Ethyl Acetate	88	3.717	3.710	(0.746)	21540	250.000	259	
	32 Propionitrile	54	3.688	3.689	(0.740)	52632	250.000	272	
	33 Methacrylonitrile	41	3.889	3.889	(0.780)	224851	250.000	262	
	34 Bromochloromethane	49	3.910	3.903	(0.784)	54392	50.0000	47.0	
	35 Tetrahydrofuran	42	3.982	3.982	(0.799)	126625	250.000	262	
	36 Chloroform	83	4.011	4.011	(0.805)	122523	50.0000	45.9	
$	37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	55791	50.0000	50.4	
	38 1,1,1-Trichloroethane	97	4.240	4.240	(0.851)	108012	50.0000	49.0	
	39 Cyclohexane	56	4.319	4.312	(0.866)	118513	50.0000	50.9	
	40 Carbon Tetrachloride	117	4.440	4.441	(0.891)	98341	50.0000	51.1	
	41 1,1-Dichloropropene	75	4.440	4.433	(0.891)	96419	50.0000	50.7	
	42 Isobutyl alcohol	43	4.584	4.577	(0.920)	12262	250.000	274	
	43 Benzene	78	4.670	4.670	(0.937)	307291	50.0000	46.9	
	44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	89053	50.0000	54.5	
	45 2,2,4-Trimethylpentane	57	4.784	4.777	(0.960)	194715	50.0000	52.5	
	46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	205640	50.0000	48.1(M)	LT
*	47 Fluorobenzene	96	4.985	4.985	(1.000)	243934	50.0000		
	48 Trichloroethene	95	5.379	5.379	(1.079)	76868	50.0000	46.8	
	49 Methylcyclohexane	55	5.586	5.587	(1.121)	88456	50.0000	50.9	
	50 1,2-Dichloropropane	63	5.608	5.601	(1.125)	73083	50.0000	50.3	
	51 Dibromomethane	93	5.723	5.716	(1.148)	41762	50.0000	44.8	
	52 Methyl methacrylate	69	5.758	5.759	(1.155)	61370	50.0000	51.6	
	53 1,4-Dioxane	88	5.758	5.071	(1.155)	3664	1000.00	881	
	54 Bromodichloromethane	83	5.887	5.888	(1.181)	88370	50.0000	49.4	
	55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.813)	262661	250.000	279	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.831)	121063	50.0000	48.2	
	57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.851)	392202	250.000	267	
$	58 Toluene-d8	98	6.589	6.589	(0.863)	233289	50.0000	50.3	
	59 Toluene	91	6.647	6.647	(0.871)	329538	50.0000	47.8	
	60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.894)	106736	50.0000	48.2	
	61 Ethyl Methacrylate	69	6.919	6.919	(0.906)	105979	50.0000	52.7	
	62 1,1,2-Trichloroethane	83	6.969	6.962	(0.913)	52727	50.0000	45.8	
	63 Tetrachloroethene	166	7.076	7.077	(0.927)	91817	50.0000	49.2	
	64 1,3-Dichloropropane	76	7.091	7.091	(0.929)	112577	50.0000	45.8	
	65 2-Hexanone	43	7.162	7.163	(0.938)	267714	250.000	248	
	66 Dibromochloromethane	129	7.248	7.248	(0.949)	76124	50.0000	46.9	
	67 1,2-Dibromoethane	107	7.320	7.320	(0.959)	70027	50.0000	47.0	
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	178795	50.0000		
	69 Chlorobenzene	112	7.649	7.650	(1.002)	216138	50.0000	47.9	
	70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.008)	75160	50.0000	48.3	
	71 Ethylbenzene	106	7.721	7.721	(1.011)	119178	50.0000	50.6	
	72 m&p-Xylene	106	7.793	7.793	(1.021)	145809	50.0000	48.9	
	73 o-Xylene	106	8.022	8.022	(1.051)	141992	50.0000	51.6	
	74 Styrene	104	8.029	8.022	(1.052)	243629	50.0000	52.2	
	75 Bromoform	173	8.129	8.130	(0.915)	60232	50.0000	48.3	
	76 Isopropylbenzene	105	8.222	8.223	(1.077)	357157	50.0000	52.2	
$	77 4-Bromofluorobenzene	95	8.301	8.301	(1.087)	85223	50.0000	50.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.380	8.380	(1.098)	167361	50.0000	49.1	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.943)	97174	50.0000	47.4	
80 1,2,3-Trichloropropane	110	8.394	8.395	(0.945)	31115	50.0000	48.2	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.100)	25331	50.0000	47.2	
82 n-Propylbenzene	91	8.437	8.438	(0.950)	408724	50.0000	52.1	
83 2-Chlorotoluene	91	8.480	8.481	(0.955)	239749	50.0000	50.2	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	289382	50.0000	53.2	
85 4-Chlorotoluene	126	8.538	8.538	(0.961)	89906	50.0000	50.1	
86 tert-Butylbenzene	119	8.688	8.689	(0.978)	287486	50.0000	53.2	
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	287723	50.0000	52.1	
88 sec-Butylbenzene	105	8.788	8.789	(0.990)	344974	50.0000	52.5	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.996)	163638	50.0000	50.1	
90 p-Isopropyltoluene	119	8.853	8.853	(0.997)	300920	50.0000	52.5	
* 91 1,4-Dichlorobenzene-d4	152	8.881	8.874	(1.000)	97415	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.001)	162006	50.0000	48.4	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.003)	278275	50.0000	50.4	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	237189	50.0000	50.8	
95 1,2-Dichlorobenzene	146	9.068	9.061	(1.021)	149348	50.0000	48.1	
96 Hexachloroethane	201	9.189	9.190	(1.035)	46978	50.0000	52.1	
97 1,2-Dibromo-3-chloropropane	155	9.404	9.405	(1.059)	21042	50.0000	49.6(MH)	NI
98 1,2,4-Trichlorobenzene	180	9.762	9.763	(1.099)	89250	50.0000	51.7	
99 Hexachlorobutadiene	225	9.834	9.834	(1.107)	45689	50.0000	54.2	
100 Naphthalene	128	9.877	9.877	(1.112)	259560	50.0000	53.2	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.124)	73355	50.0000	52.0	
102 2,methyl-naphthalene	142	10.414	10.415	(1.173)	18351	50.0000	52.0	
103 1-Methylnaphthalene	142	10.522	10.522	(1.185)	10873	50.0000	51.8	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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.

Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b07.d

Page 4

Date : 16-JAN-2023 17:36

Client ID: 8260-CAL7

Instrument: 50mvcb.i

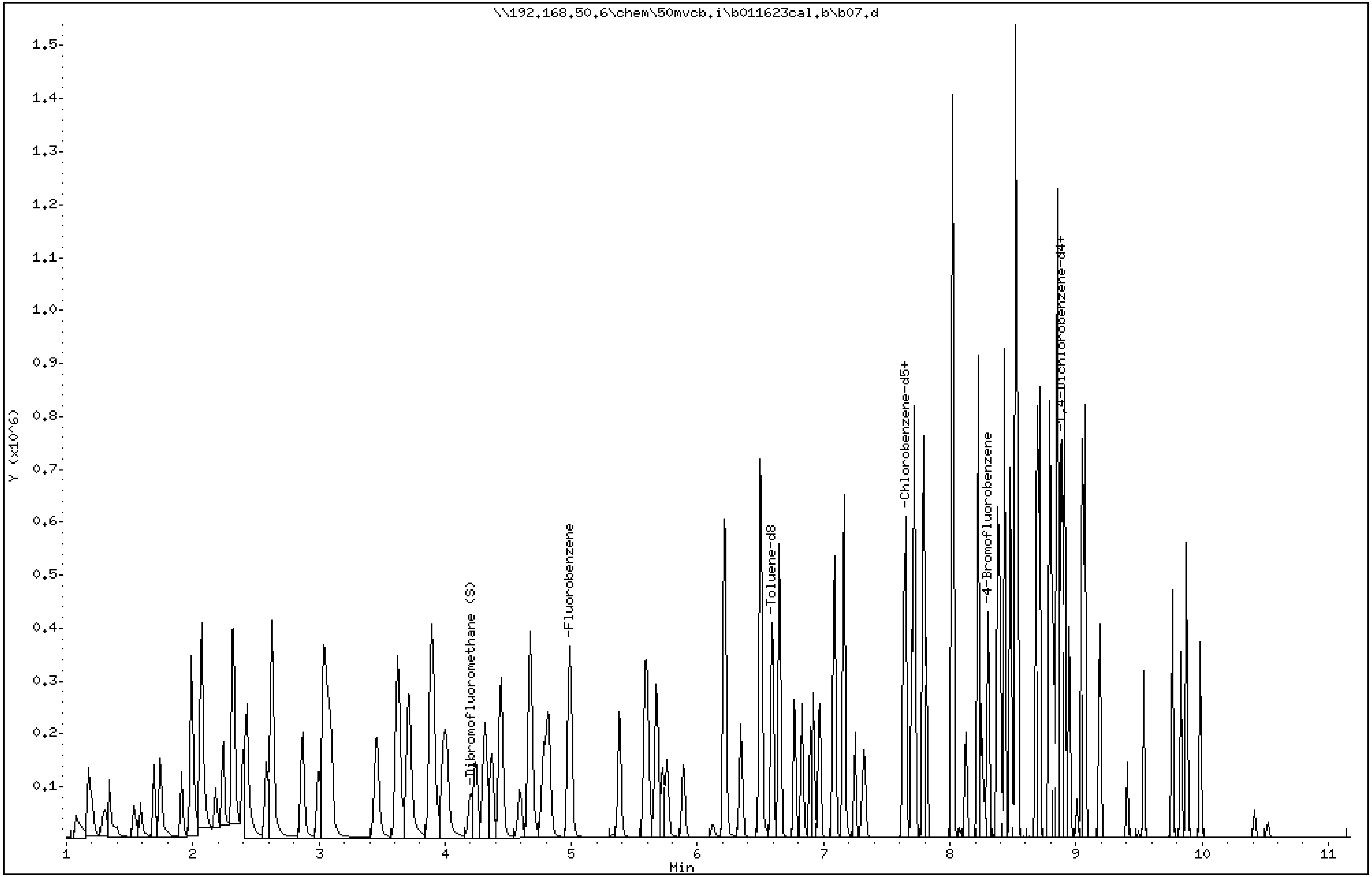
Sample Info: 8260-CAL7,335767:0

Purge Volume: 5.0

Operator: DAP

Column phase: DB-624

Column diameter: 0.18



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Date : 16-JAN-2023 17:36

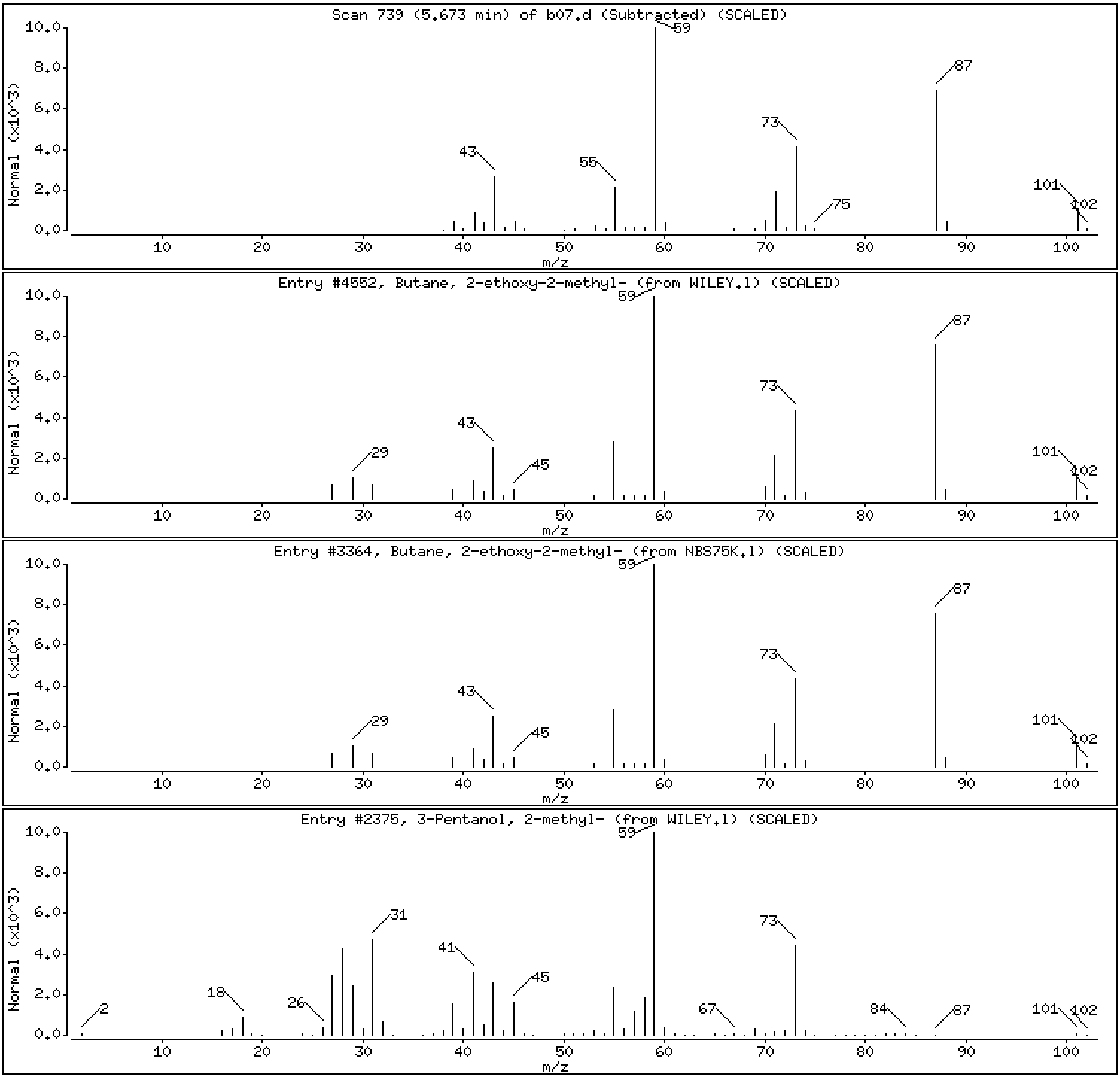
Client ID: 8260-CAL7 Instrument: 50mvcb.i

Sample Info: 8260-CAL7,335767:0

Purge Volume: 5.0 Operator: DAP

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-ethoxy-2-methyl-	919-94-8	WILEY.l	4552	90	C7H16O	116
Butane, 2-ethoxy-2-methyl-	919-94-8	NBS75K.l	3364	90	C7H16O	116
3-Pentanol, 2-methyl-	565-67-3	WILEY.l	2375	43	C6H14O	102



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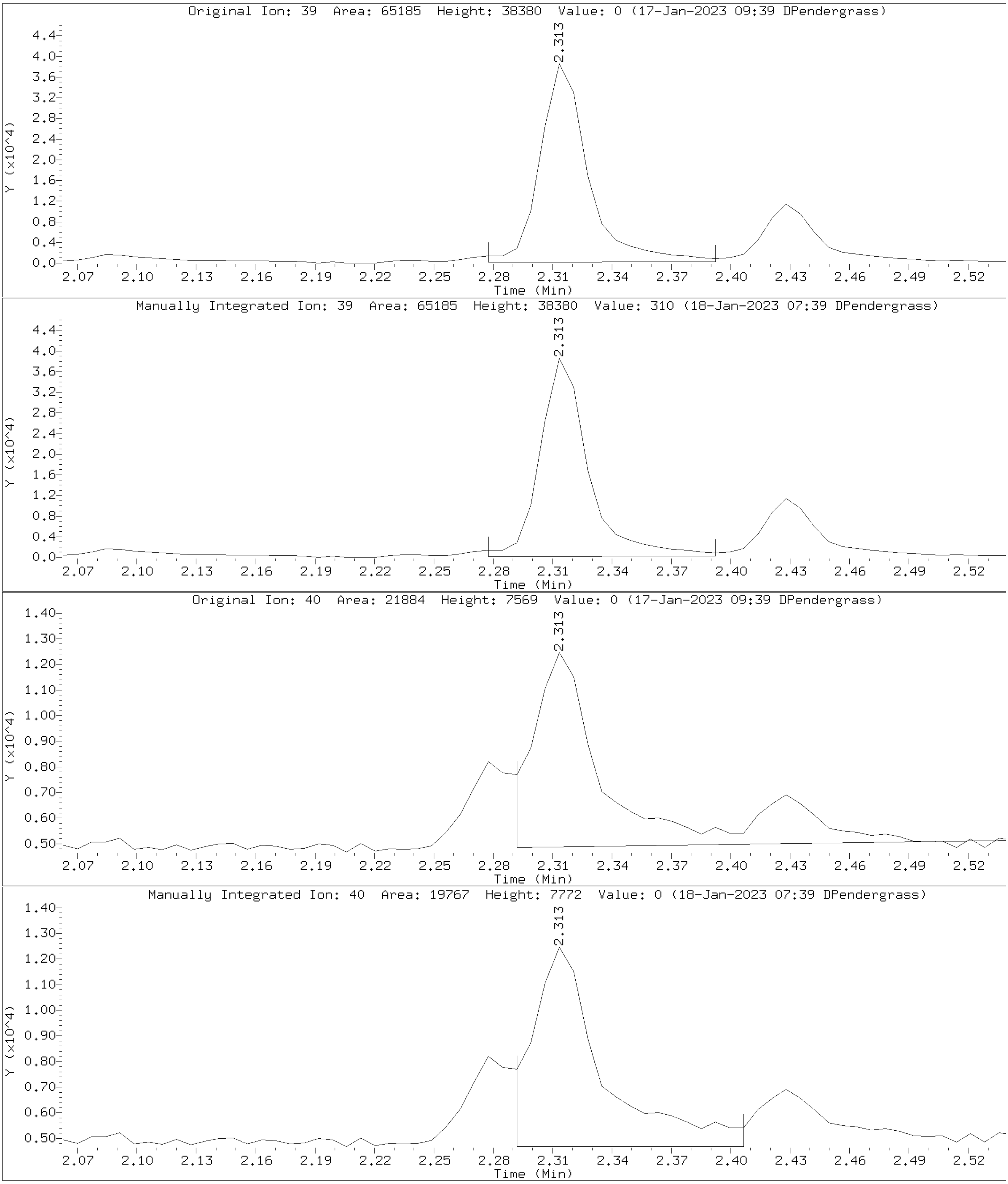
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: Acetonitrile   Review Code: LT
CAS Number: 75-05-8



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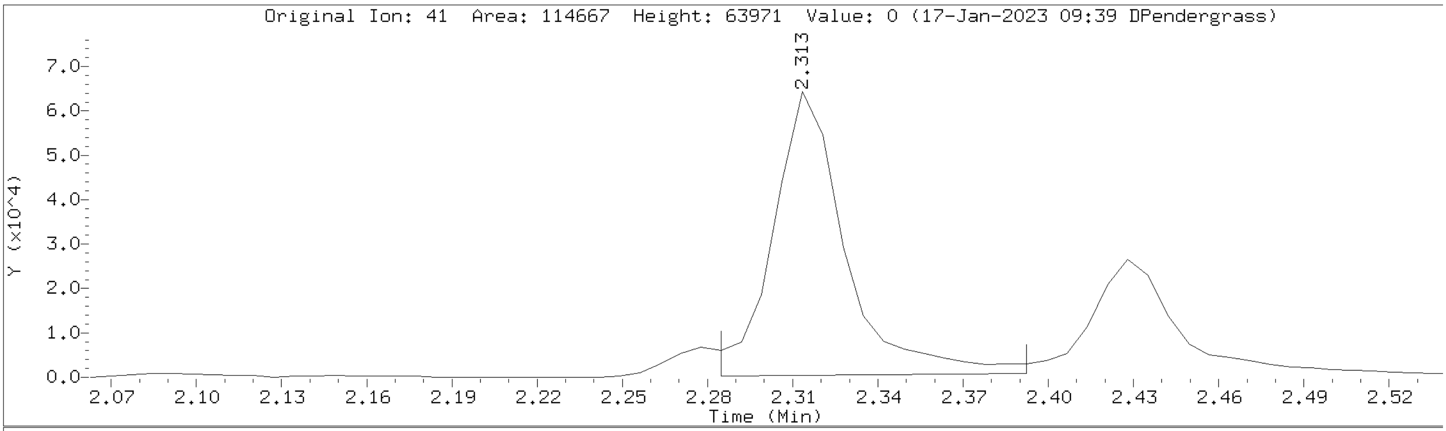
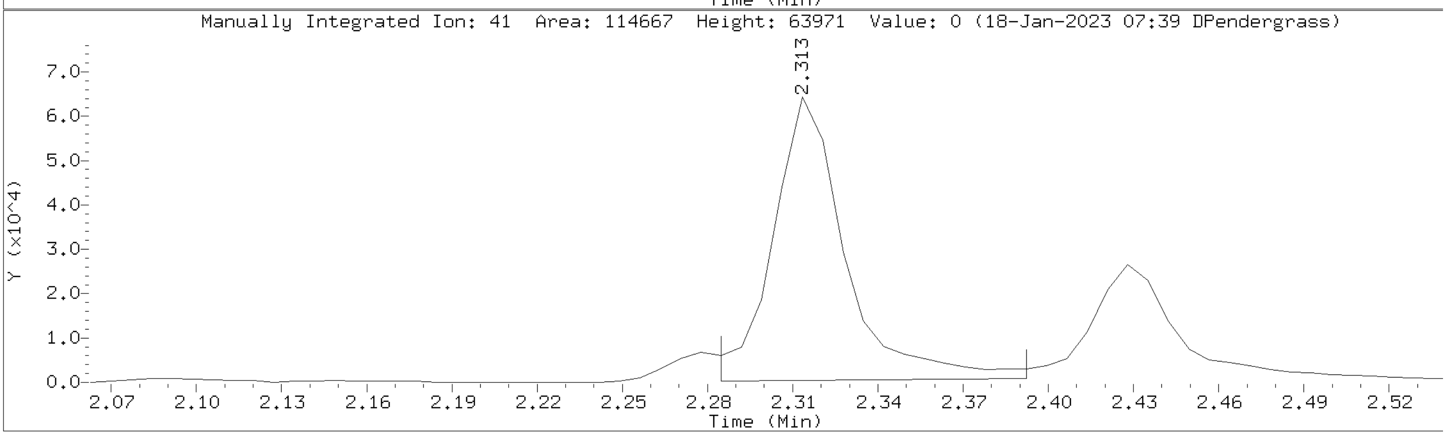
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7





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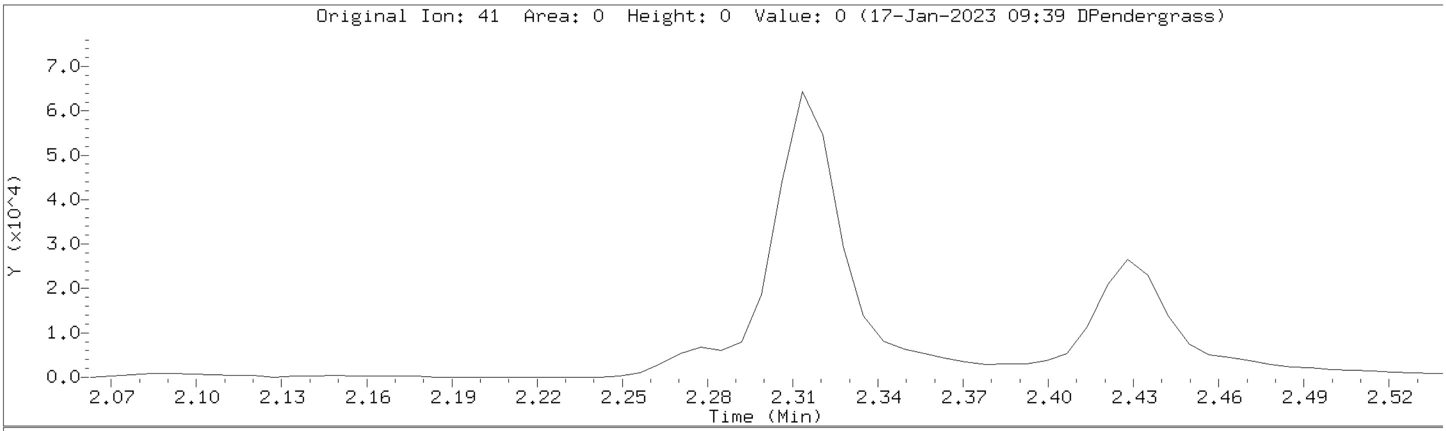
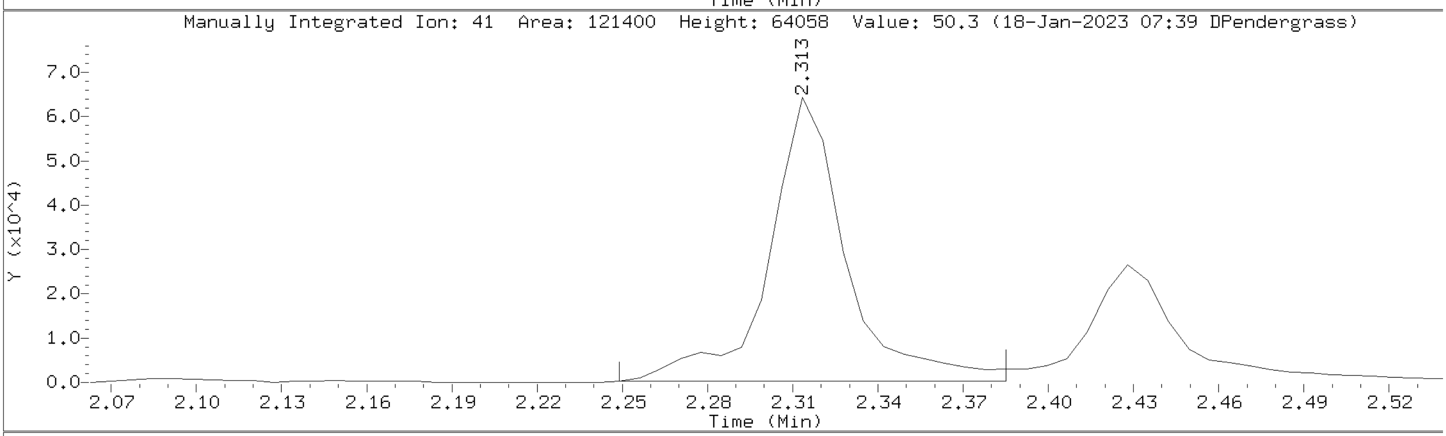
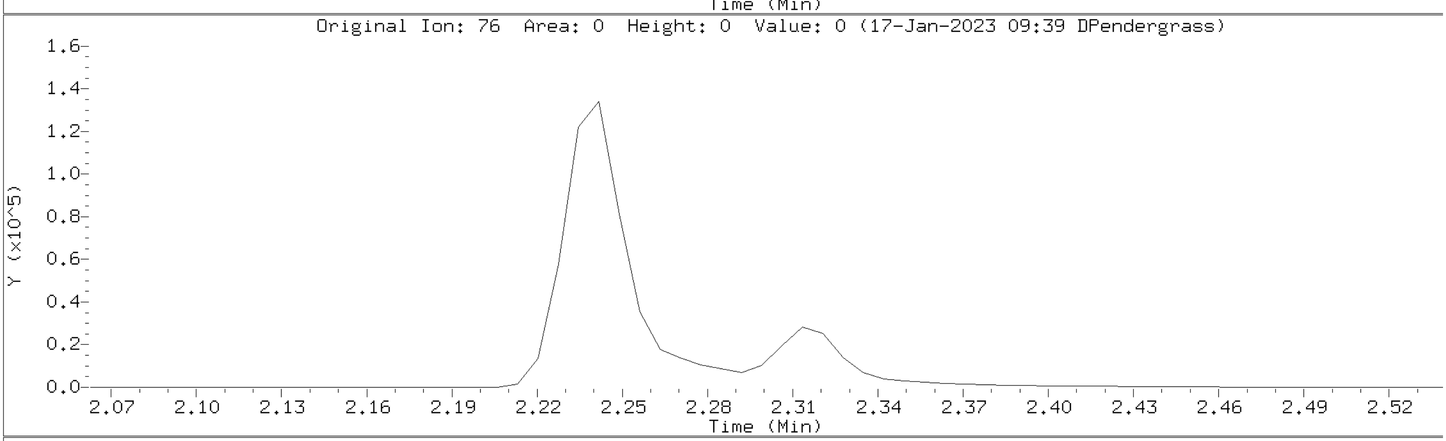
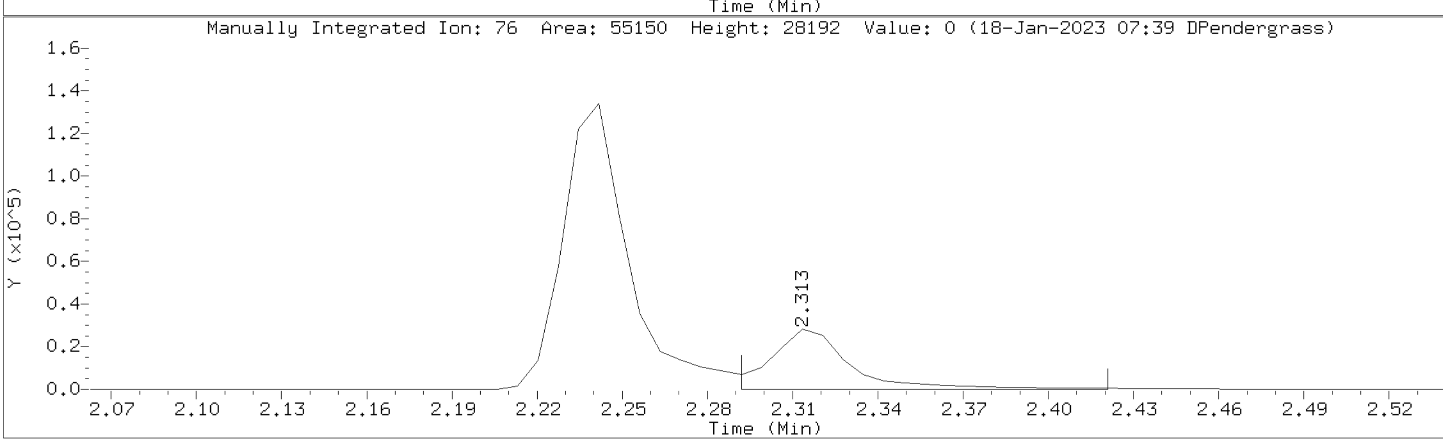
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1









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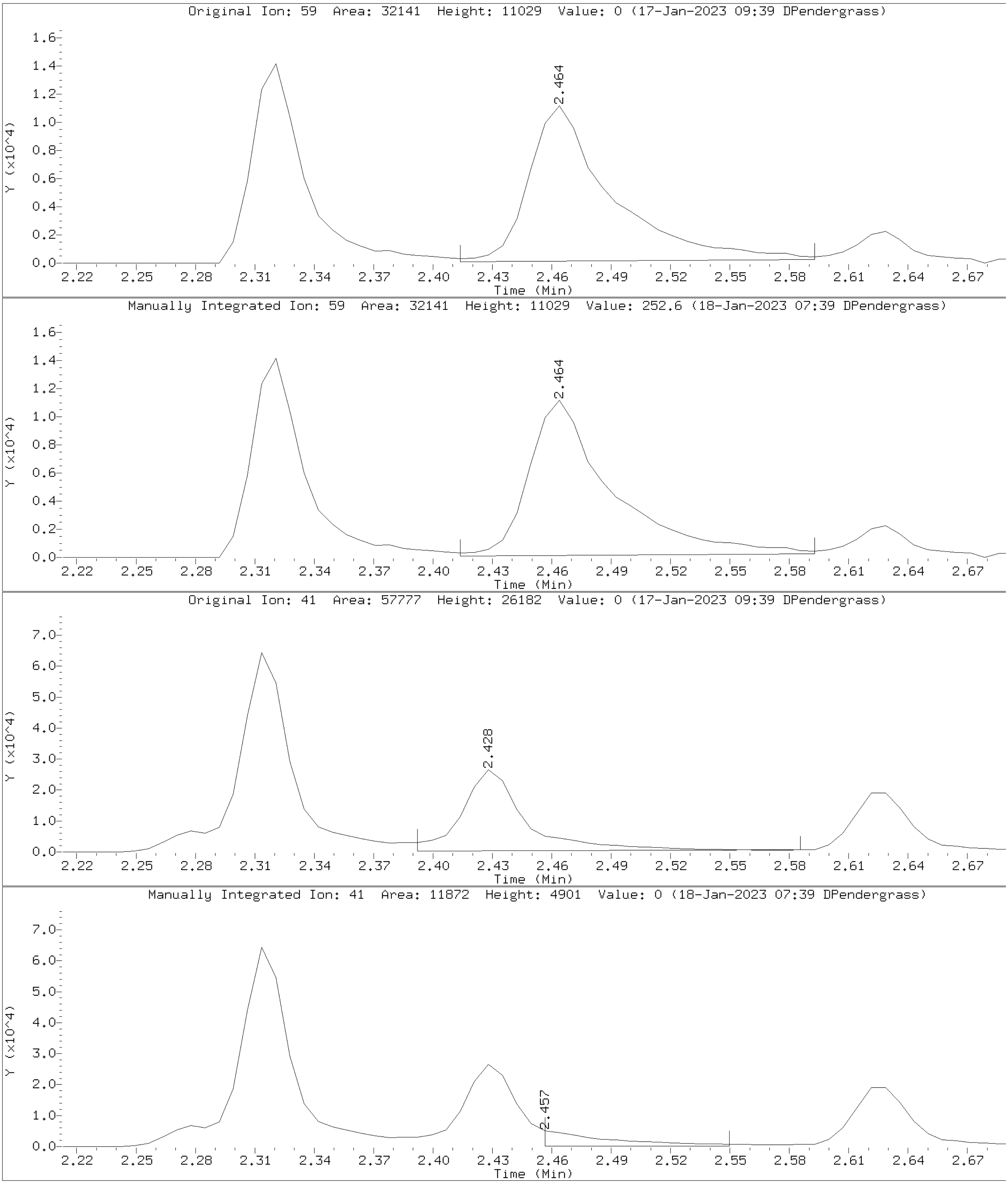
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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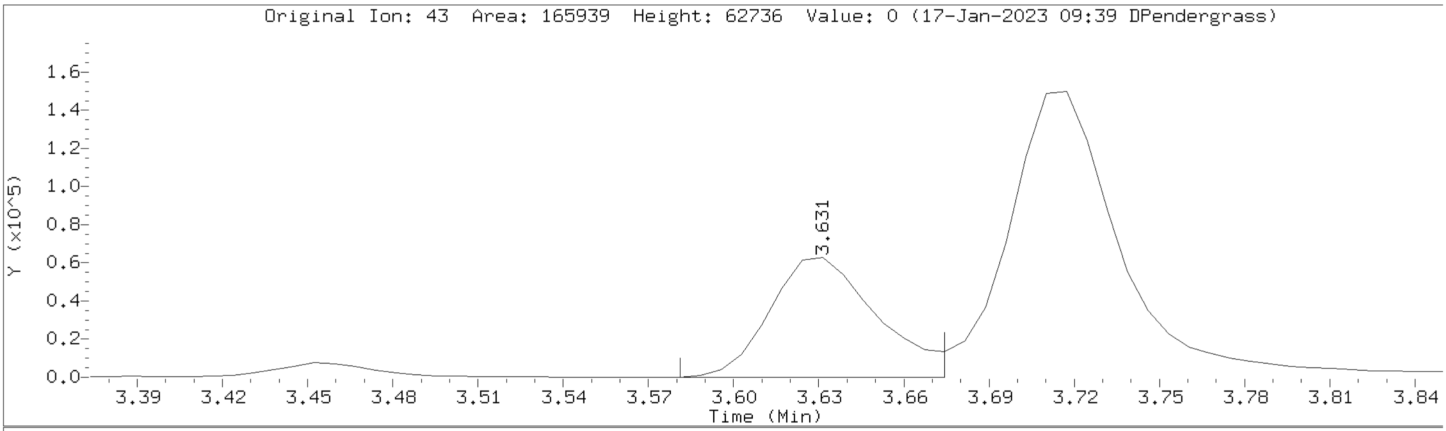
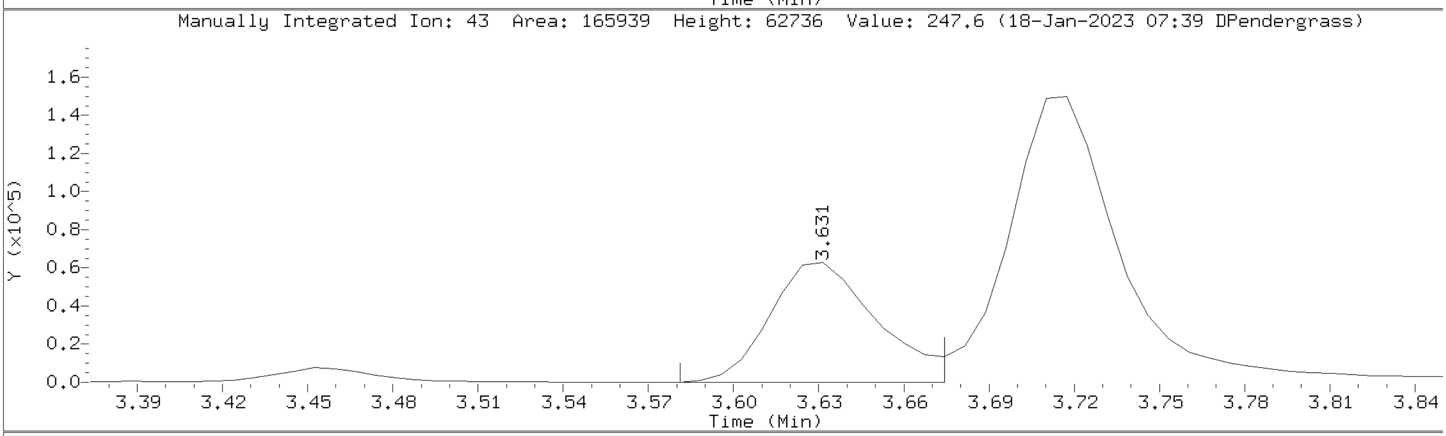
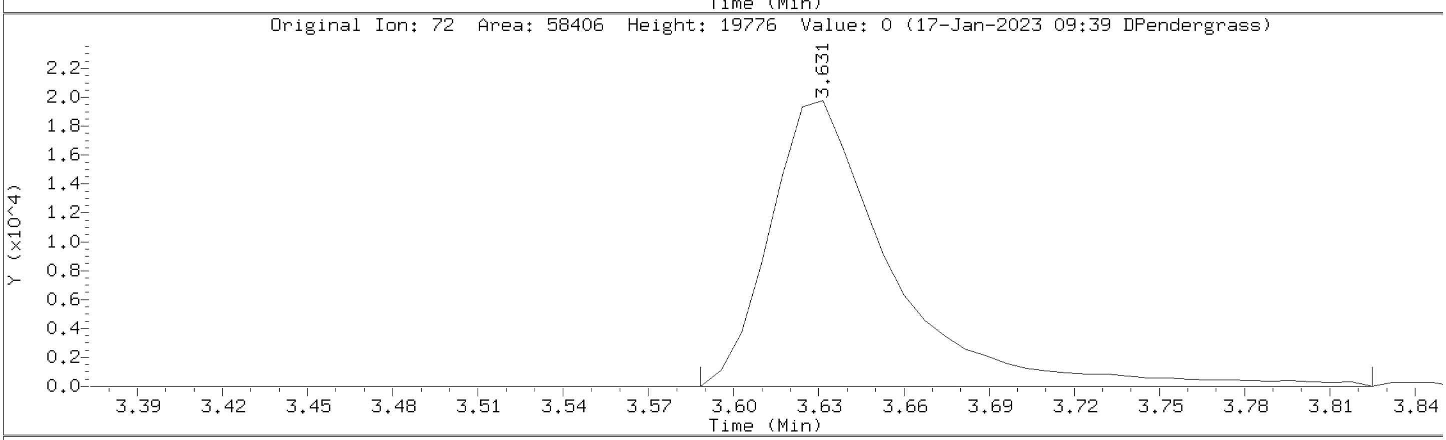
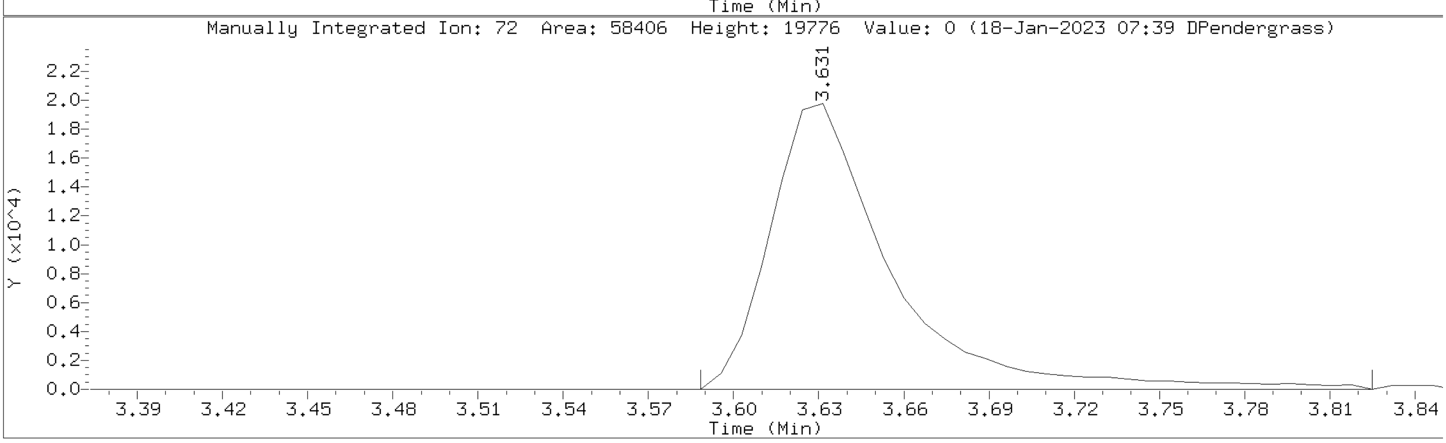
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: 2-Butanone   Review Code: NI
CAS Number: 78-93-3









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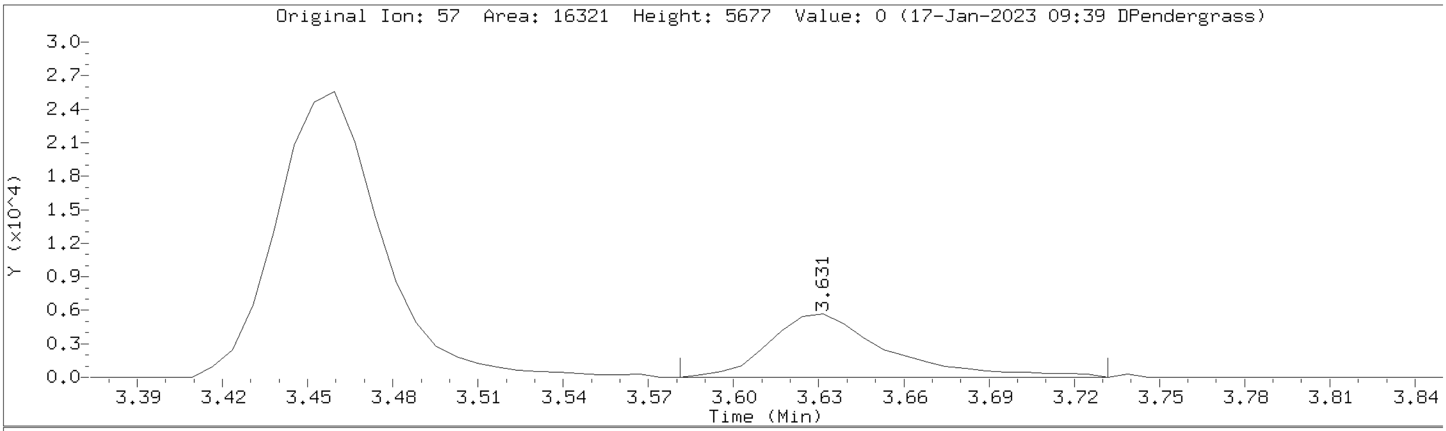
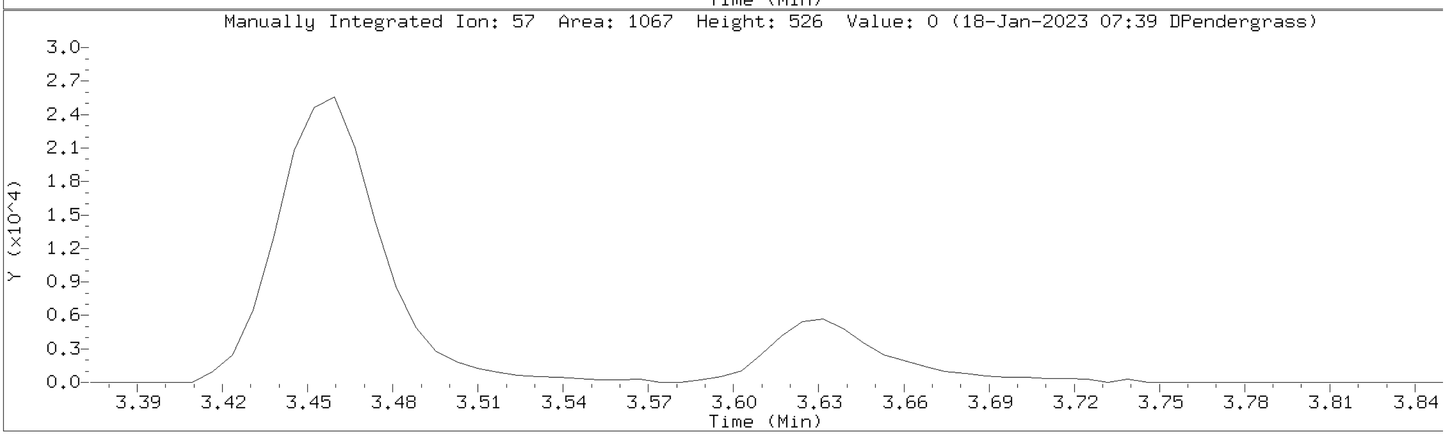
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7





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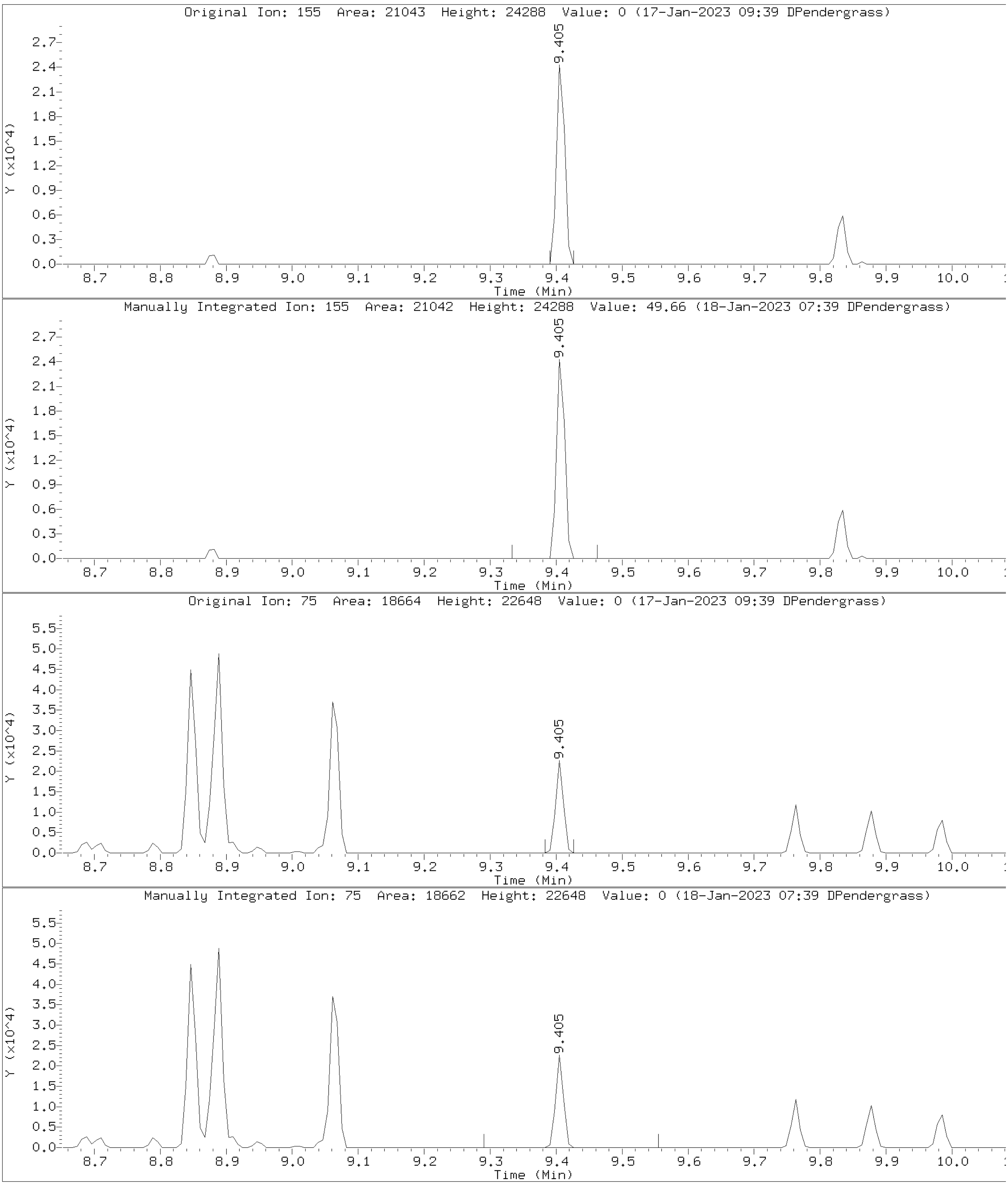
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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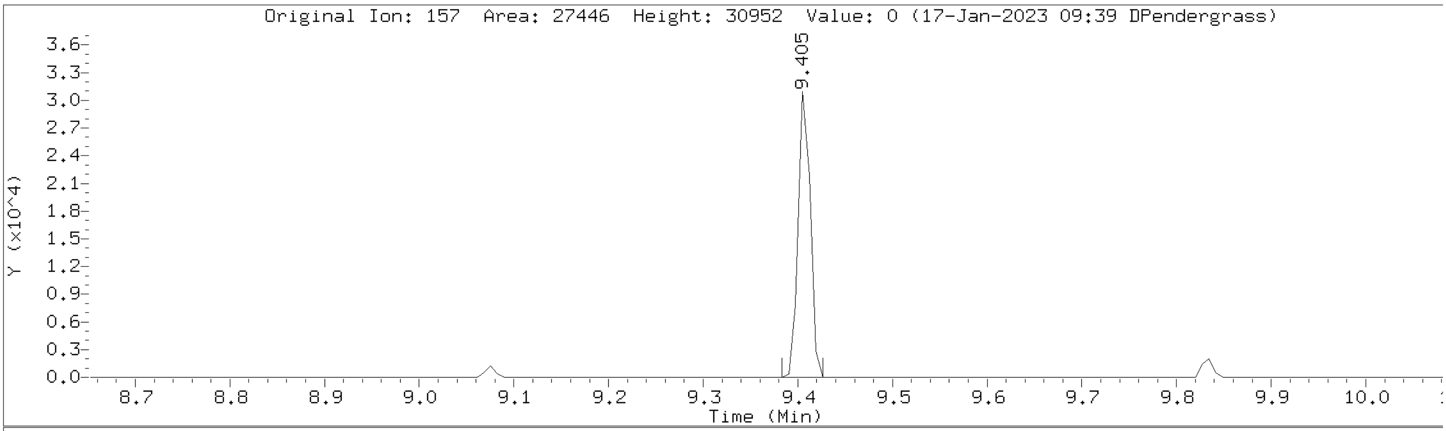
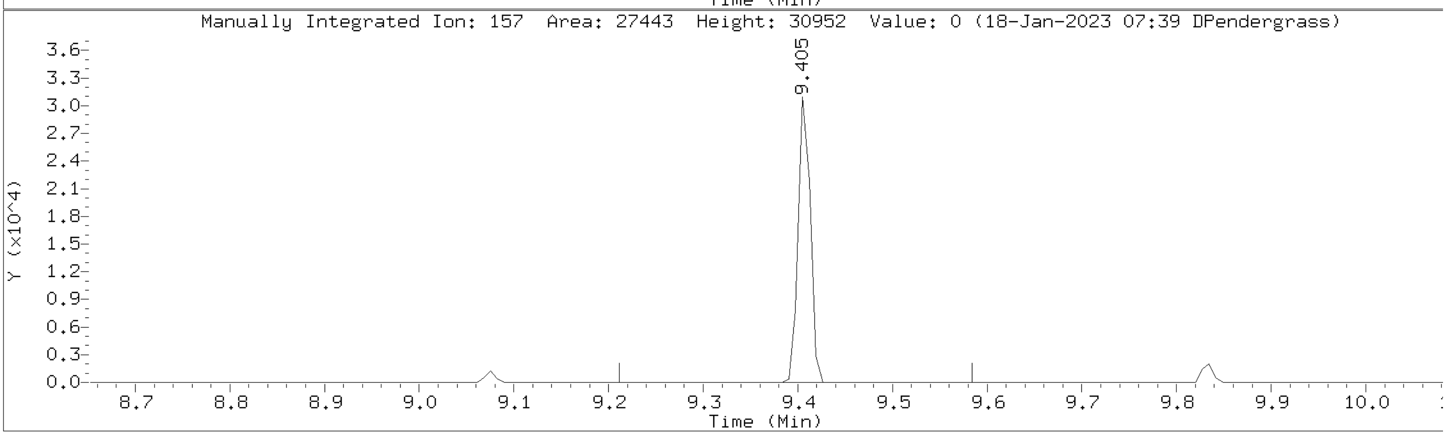
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7





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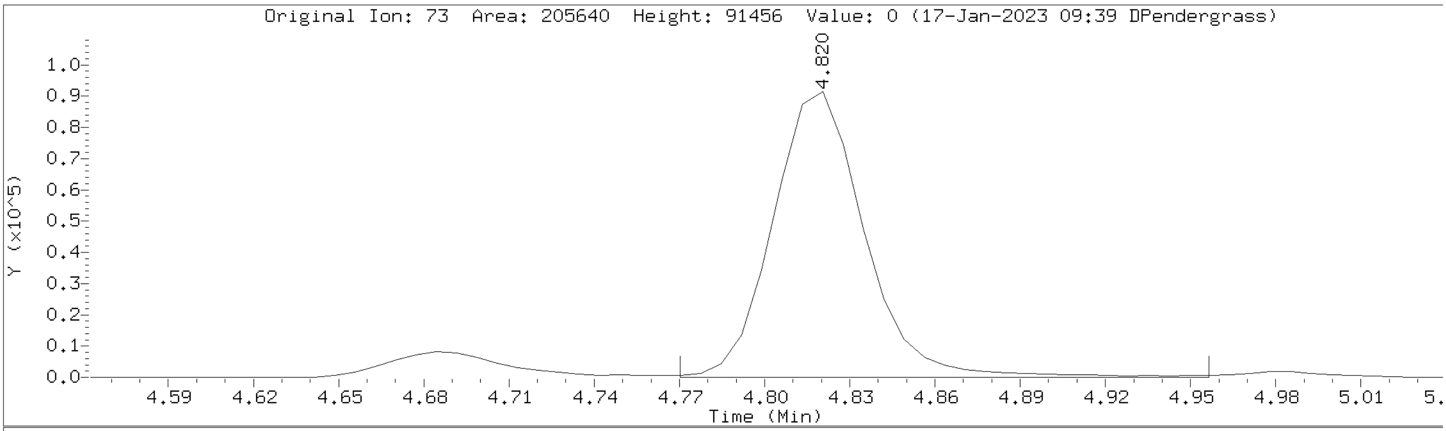
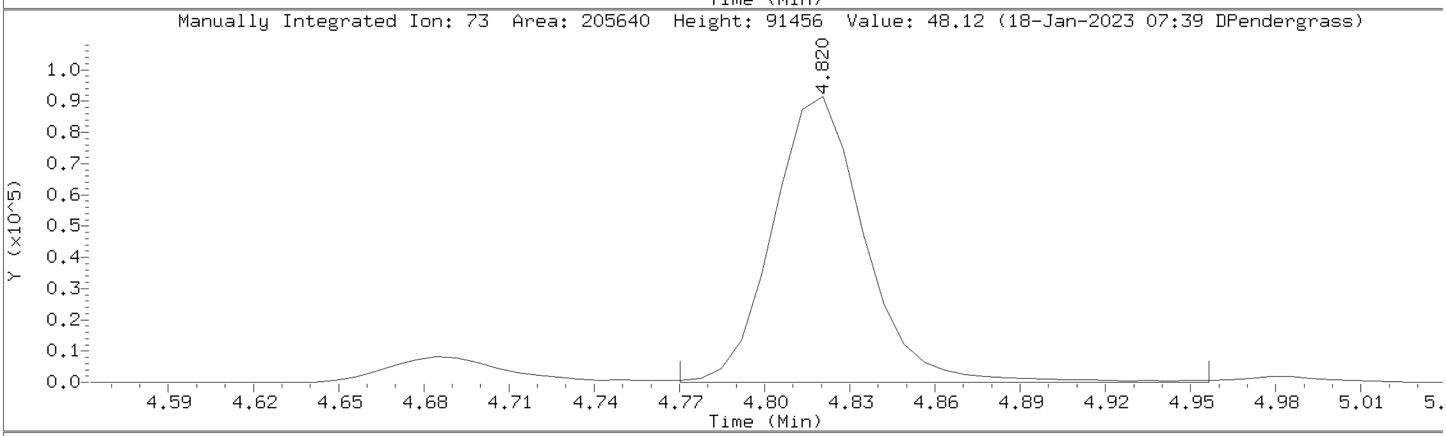
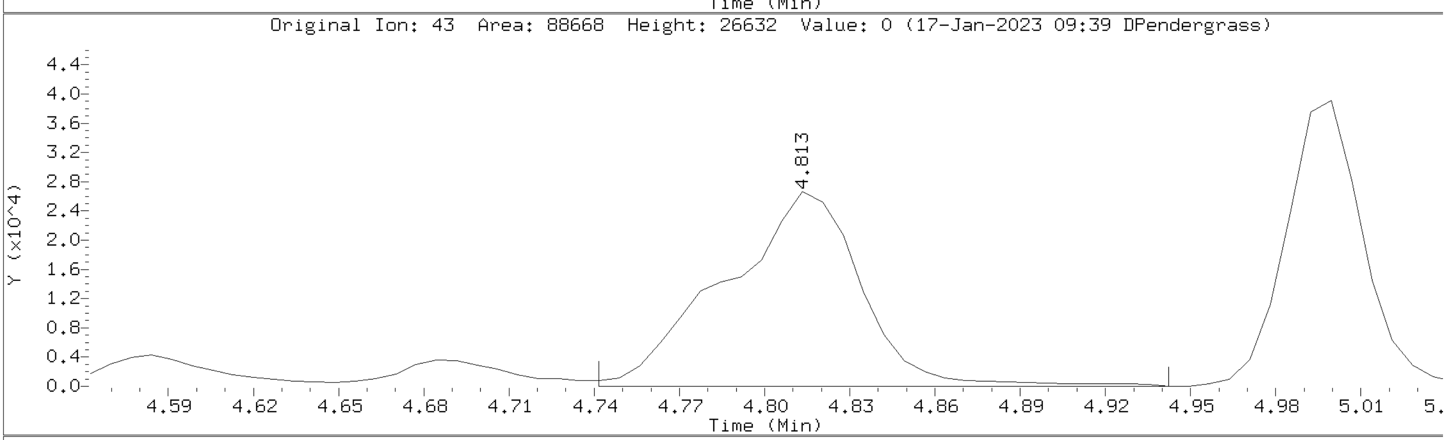
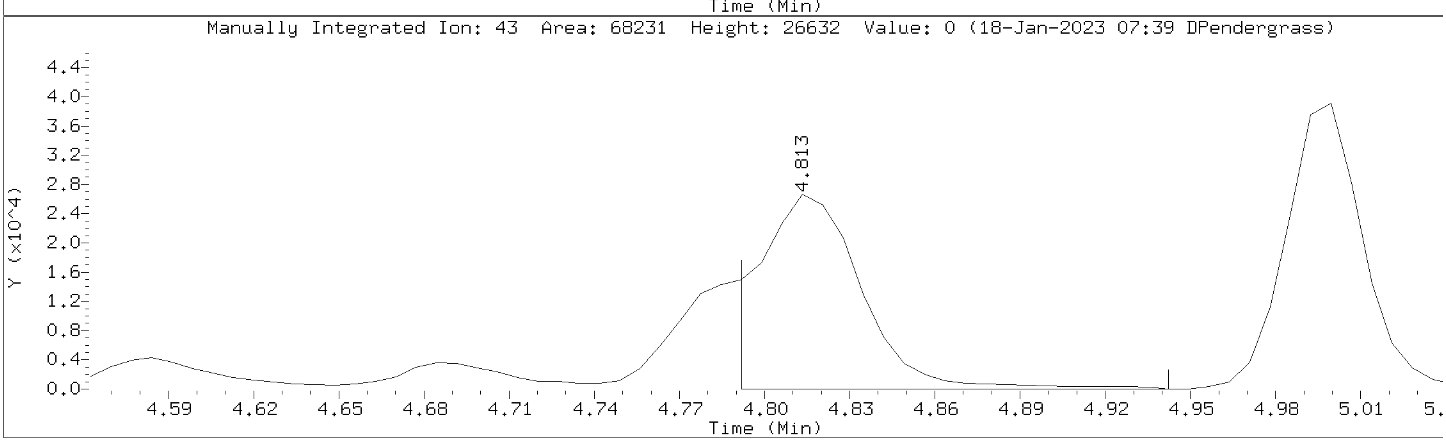
Injection Date: 16-JAN-2023 17:36
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL7

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b08.d
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Inj Date : 16-JAN-2023 18:09
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal8,335768:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-DAP

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	1.174	1.175	(0.236)	256206	150.000	167	
2 Chloromethane	50	1.303	1.296	(0.261)	232057	150.000	152	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	267848	150.000	161	
4 Bromomethane	94	1.532	1.533	(0.307)	133692	150.000	172	
5 Chloroethane	64	1.590	1.590	(0.319)	144972	150.000	153	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	296953	150.000	155	
7 Diethyl ether	74	1.905	1.912	(0.382)	131795	150.000	146	
8 Acrolein	56	1.991	1.991	(0.399)	874982	3000.00	3100	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	197750	150.000	155	
10 1,1-Dichloroethene	96	2.070	2.070	(0.415)	194227	150.000	153	
11 Acetone	43	2.091	2.091	(0.420)	246119	750.000	594	
12 Iodomethane	142	2.177	2.177	(0.437)	289882	150.000	162	
13 Carbon Disulfide	76	2.242	2.234	(0.450)	613985	150.000	145	
14 Acetonitrile	39	2.313	2.313	(0.464)	147920	750.000	757	
15 allyl chloride	41	2.313	2.314	(0.464)	312334	150.000	138	
16 Methyl Acetate	43	2.320	2.320	(0.466)	693544	750.000	621	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.494)	83727	750.000	703(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	207431	150.000	151	
19 Acrylonitrile	53	2.585	2.585	(0.519)	412031	750.000	797	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	559907	150.000	138	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	212711	150.000	147	
22 n-Hexane	57	2.872	2.872	(0.576)	285105	150.000	160	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
23 1,1-Dichloroethane	63	3.001	2.994	(0.602)	347006	150.000	140	
24 Vinyl Acetate	43	3.037	3.037	(0.609)	1580967	600.000	591	
25 Diisopropyl ether	45	3.065	3.065	(0.615)	529637	150.000	130	
26 chloroprene	53	3.094	3.094	(0.621)	281704	150.000	144	
27 Ethyl-tert-butyl ether	59	3.452	3.459	(0.693)	573248	150.000	140	
28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	275517	150.000	142	
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	230062	150.000	143	
30 2-Butanone	43	3.631	3.624	(0.728)	383357	750.000	611(M)	NI
31 Ethyl Acetate	88	3.717	3.710	(0.746)	60858	750.000	772	
32 Propionitrile	54	3.696	3.689	(0.741)	136860	750.000	757	
33 Methacrylonitrile	41	3.896	3.889	(0.782)	525865	750.000	656	
34 Bromochloromethane	49	3.911	3.903	(0.784)	131854	150.000	122	
35 Tetrahydrofuran	42	3.982	3.982	(0.799)	305580	750.000	674	
36 Chloroform	83	4.011	4.011	(0.805)	325615	150.000	130	
$ 37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	50935	50.0000	49.1	
38 1,1,1-Trichloroethane	97	4.247	4.240	(0.852)	304491	150.000	148	
39 Cyclohexane	56	4.319	4.312	(0.866)	342037	150.000	157	
40 Carbon Tetrachloride	117	4.441	4.441	(0.891)	278419	150.000	154	
41 1,1-Dichloropropene	75	4.441	4.433	(0.891)	269774	150.000	151	
42 Isobutyl alcohol	43	4.584	4.577	(0.920)	32390	750.000	772	
43 Benzene	78	4.670	4.670	(0.937)	858384	150.000	140	
44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	224501	150.000	148	
45 2,2,4-Trimethylpentane	57	4.784	4.777	(0.960)	565286	150.000	163	
46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	574068	150.000	143(M)	LT
* 47 Fluorobenzene	96	4.985	4.985	(1.000)	228470	50.0000		
48 Trichloroethene	95	5.379	5.379	(1.079)	223381	150.000	145	
49 Methylcyclohexane	55	5.587	5.587	(1.121)	258730	150.000	159	
50 1,2-Dichloropropane	63	5.608	5.601	(1.125)	205582	150.000	152	
51 Dibromomethane	93	5.723	5.716	(1.148)	119242	150.000	136	
52 Methyl methacrylate	69	5.759	5.759	(1.155)	179041	150.000	161	
53 1,4-Dioxane	88	5.766	5.071	(1.157)	15620	3000.00	4010	
54 Bromodichloromethane	83	5.895	5.888	(1.182)	251913	150.000	152	
55 2-Chloroethyl vinyl ether	63	6.217	6.210	(0.814)	724050	750.000	771	
56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.831)	342672	150.000	137	
57 4-Methyl-2-Pentanone	43	6.504	6.496	(0.852)	1025366	750.000	701	
$ 58 Toluene-d8	98	6.589	6.589	(0.863)	224346	50.0000	48.5	
59 Toluene	91	6.647	6.647	(0.871)	950024	150.000	138	
60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.894)	303136	150.000	137	
61 Ethyl Methacrylate	69	6.919	6.919	(0.906)	300929	150.000	150	
62 1,1,2-Trichloroethane	83	6.969	6.962	(0.913)	151791	150.000	132	
63 Tetrachloroethene	166	7.084	7.077	(0.928)	274169	150.000	147	
64 1,3-Dichloropropane	76	7.091	7.091	(0.929)	317211	150.000	129	
65 2-Hexanone	43	7.163	7.163	(0.938)	750309	750.000	696	
66 Dibromochloromethane	129	7.248	7.248	(0.949)	225329	150.000	139	
67 1,2-Dibromoethane	107	7.327	7.320	(0.960)	204144	150.000	137	
* 68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	178356	50.0000		
69 Chlorobenzene	112	7.650	7.650	(1.002)	636019	150.000	141	
70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.008)	224871	150.000	145	
71 Ethylbenzene	106	7.721	7.721	(1.011)	349009	150.000	149	
72 m&p-Xylene	106	7.793	7.793	(1.021)	432778	150.000	145	
73 o-Xylene	106	8.022	8.022	(1.051)	405212	150.000	148	
74 Styrene	104	8.029	8.022	(1.052)	694307	150.000	149	
75 Bromoform	173	8.130	8.130	(0.915)	182205	150.000	152	
76 Isopropylbenzene	105	8.223	8.223	(1.077)	1041374	150.000	152	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.301	8.301	(1.087)	85045	50.0000	50.6	
78 Bromobenzene	77	8.387	8.380	(1.098)	480928	150.000	142	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.943)	276097	150.000	140	
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.945)	90582	150.000	146	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.100)	75055	150.000	140	
82 n-Propylbenzene	91	8.438	8.438	(0.950)	1157940	150.000	153	
83 2-Chlorotoluene	91	8.481	8.481	(0.955)	688971	150.000	150	
84 1,3,5-Trimethylbenzene	105	8.524	8.523	(0.960)	797637	150.000	152	
85 4-Chlorotoluene	126	8.538	8.538	(0.961)	247377	150.000	143	
86 tert-Butylbenzene	119	8.688	8.689	(0.978)	811965	150.000	156	
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	804231	150.000	151	
88 sec-Butylbenzene	105	8.796	8.789	(0.990)	982747	150.000	155	
89 1,3-Dichlorobenzene	146	8.853	8.846	(0.997)	468077	150.000	149	
90 p-Isopropyltoluene	119	8.860	8.853	(0.998)	843890	150.000	153	
* 91 1,4-Dichlorobenzene-d4	152	8.882	8.874	(1.000)	93765	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.001)	461892	150.000	143	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.003)	788661	150.000	148	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	675708	150.000	150	
95 1,2-Dichlorobenzene	146	9.068	9.061	(1.021)	427223	150.000	143	
96 Hexachloroethane	201	9.190	9.190	(1.035)	143416	150.000	165	
97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.059)	63593	150.000	156(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.099)	255879	150.000	154	
99 Hexachlorobutadiene	225	9.834	9.834	(1.107)	137826	150.000	170	
100 Naphthalene	128	9.877	9.877	(1.112)	747501	150.000	159	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.124)	204343	150.000	150	
102 2,methyl-naphthalene	142	10.415	10.415	(1.173)	38477	150.000	113	
103 1-Methylnaphthalene	142	10.522	10.522	(1.185)	19578	150.000	97.0	

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.

Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b08.d

Page 4

Date : 16-JAN-2023 18:09

Client ID: 8260-CAL8

Instrument: 50mvcb.i

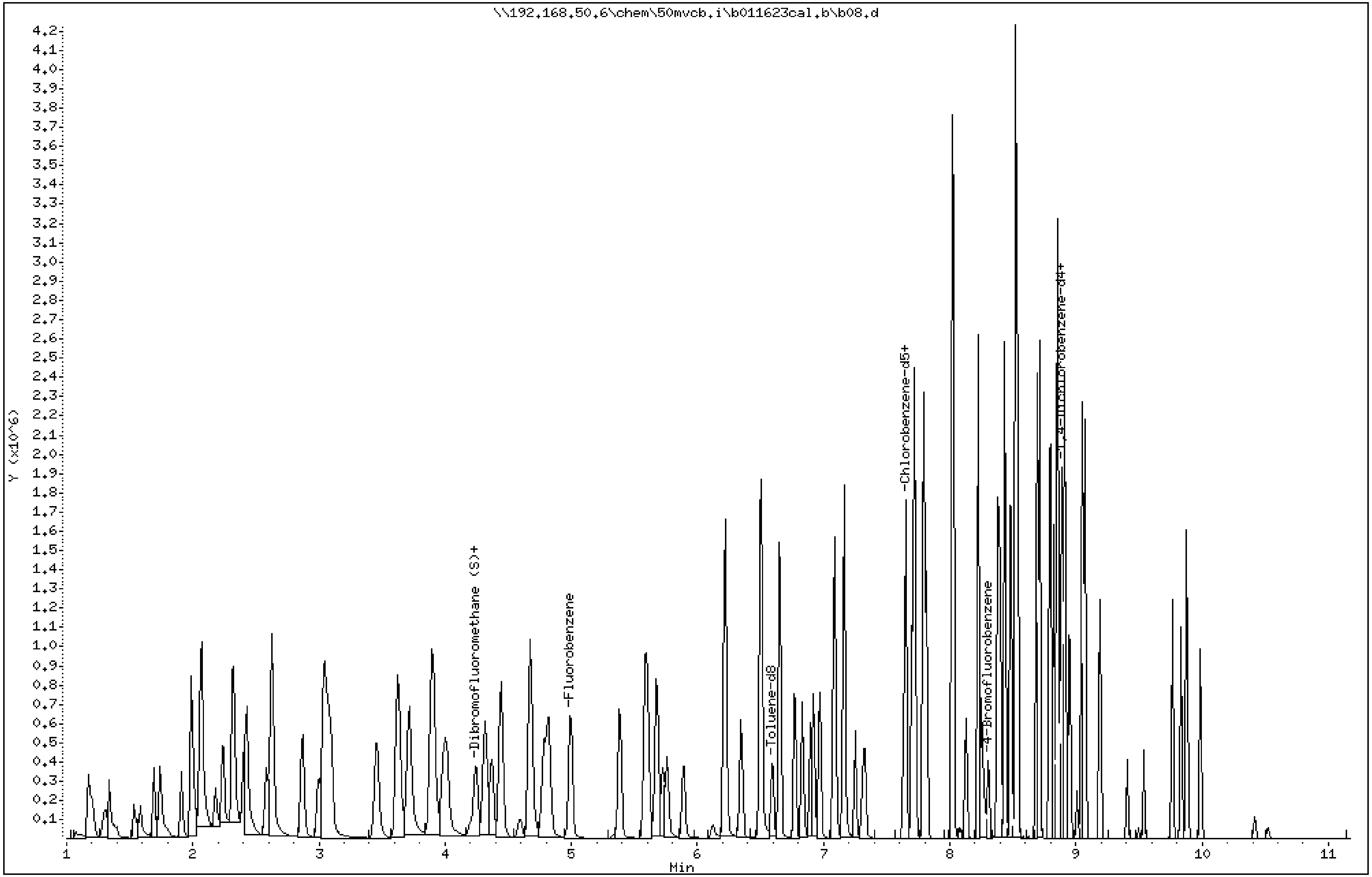
Sample Info: 8260-CAL8,335768:0

Purge Volume: 5.0

Operator: DAP

Column phase: DB-624

Column diameter: 0.18



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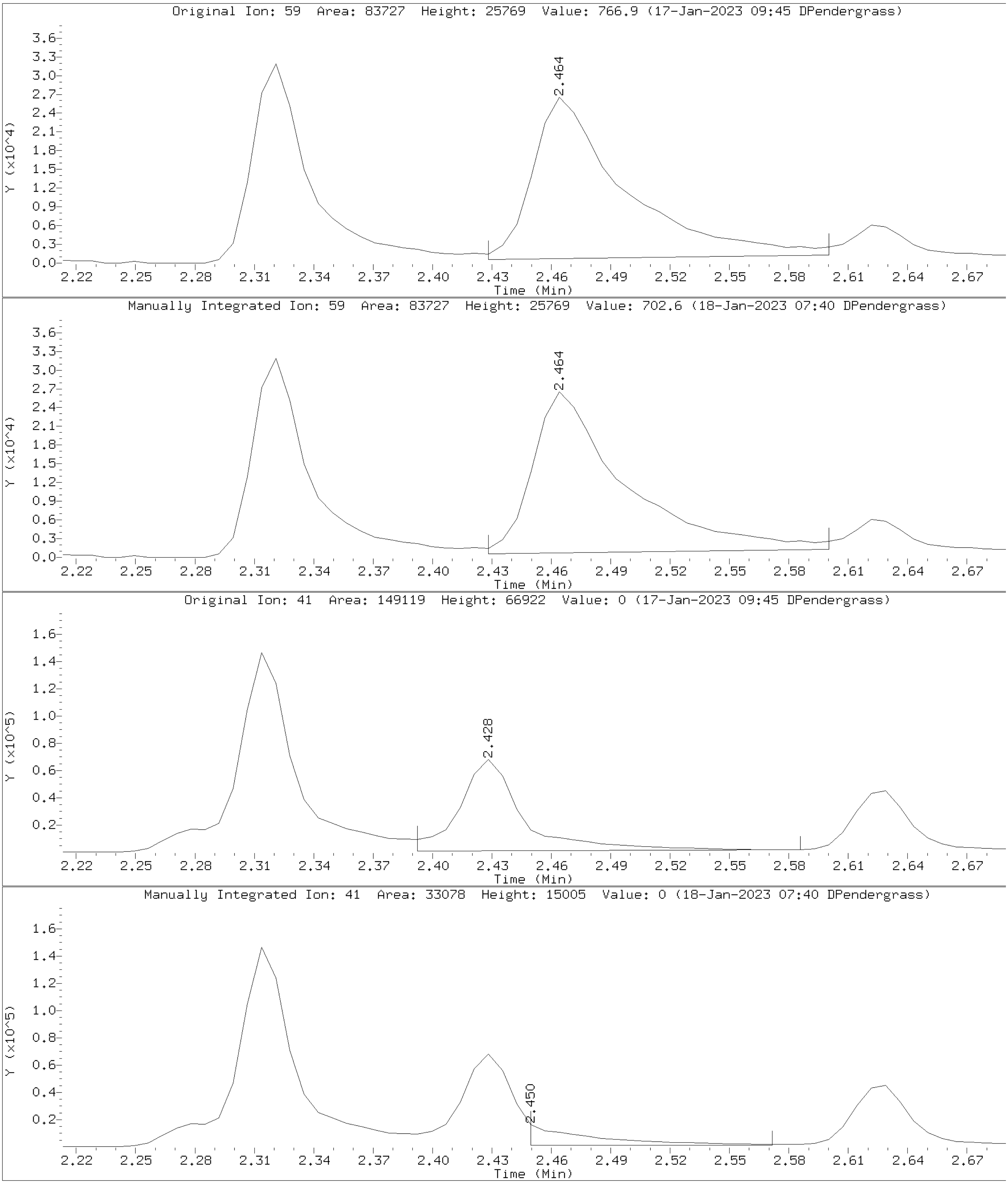
Injection Date: 16-JAN-2023 18:09
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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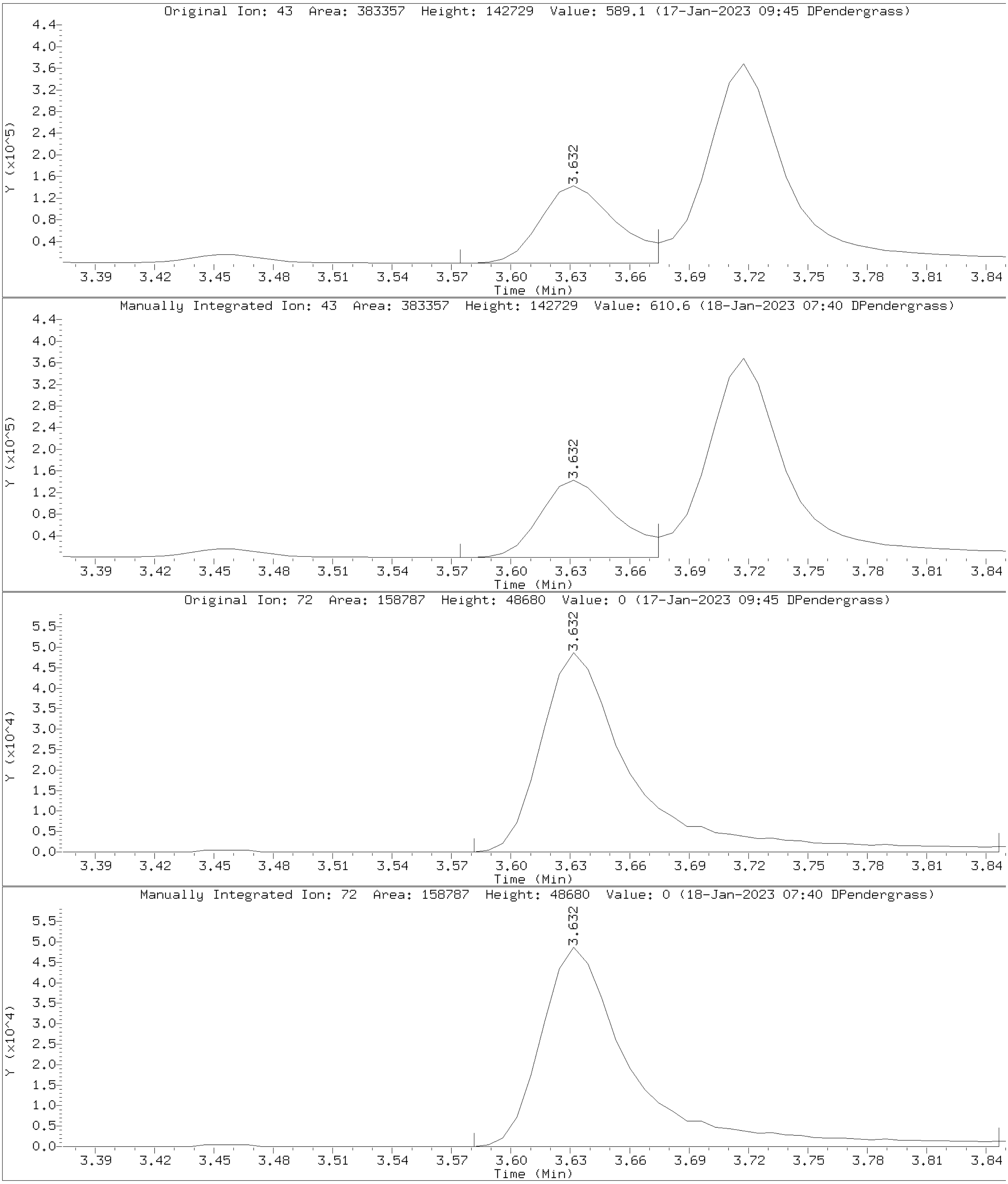
Injection Date: 16-JAN-2023 18:09
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8

Compound: 2-Butanone   Review Code: NI
CAS Number: 78-93-3



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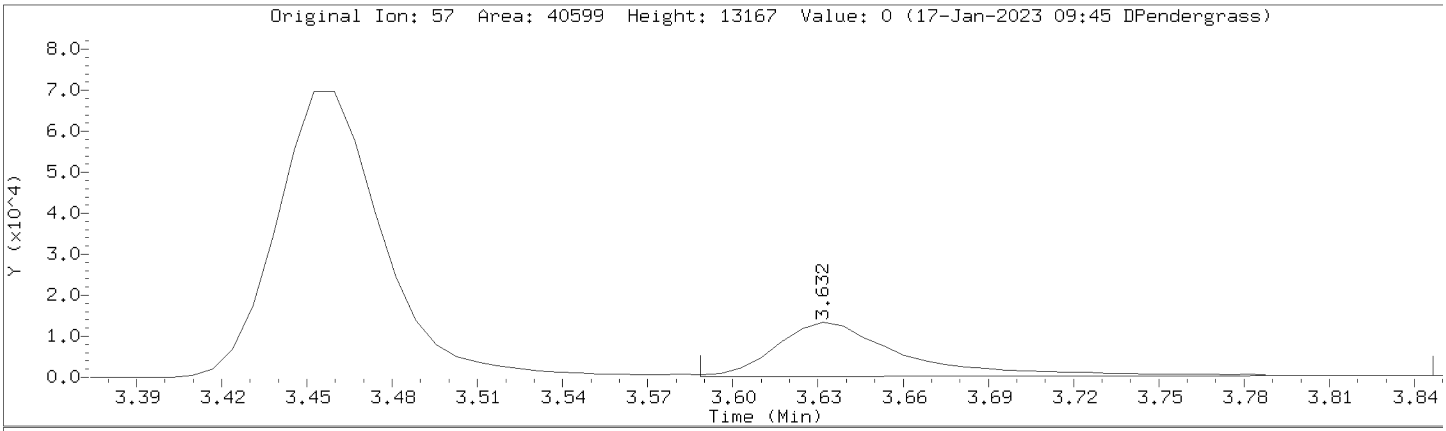
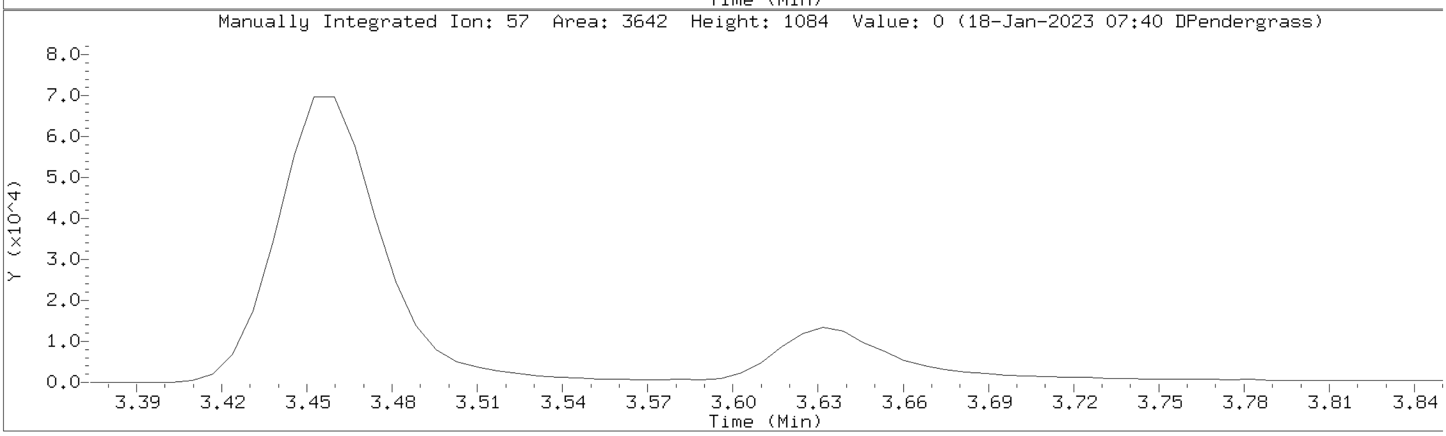
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8





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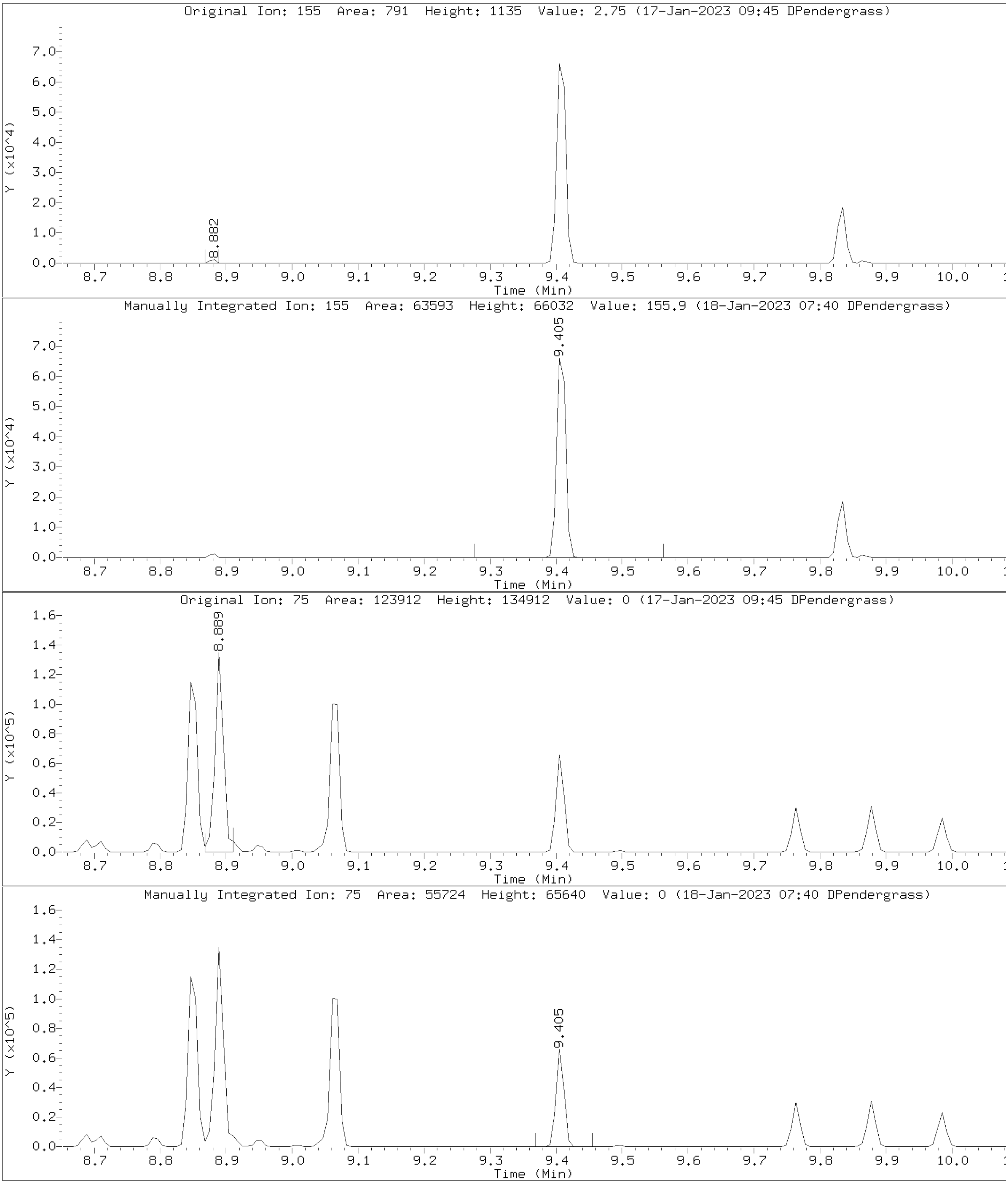
Injection Date: 16-JAN-2023 18:09
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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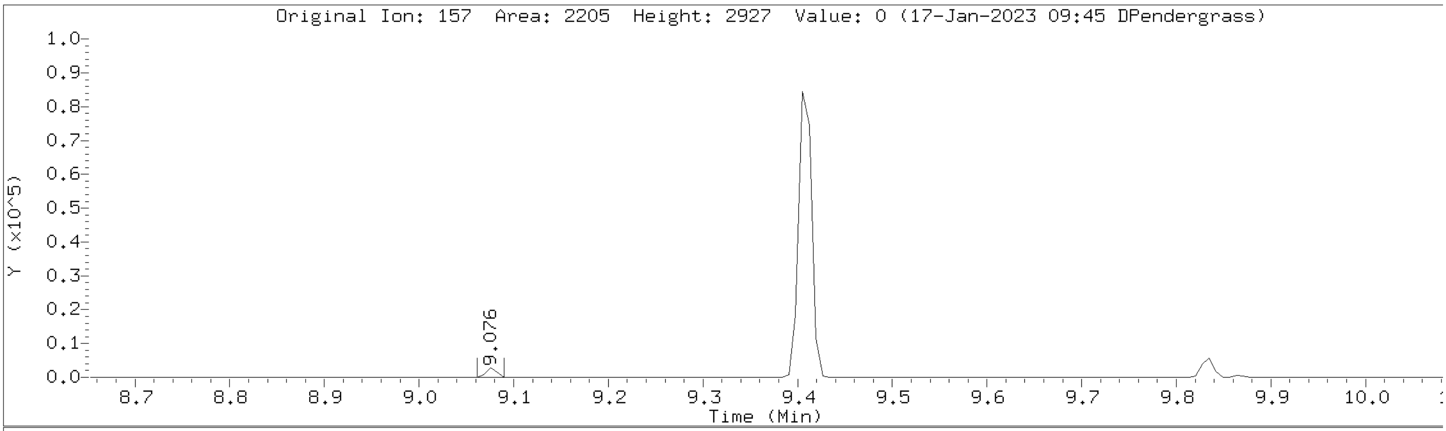
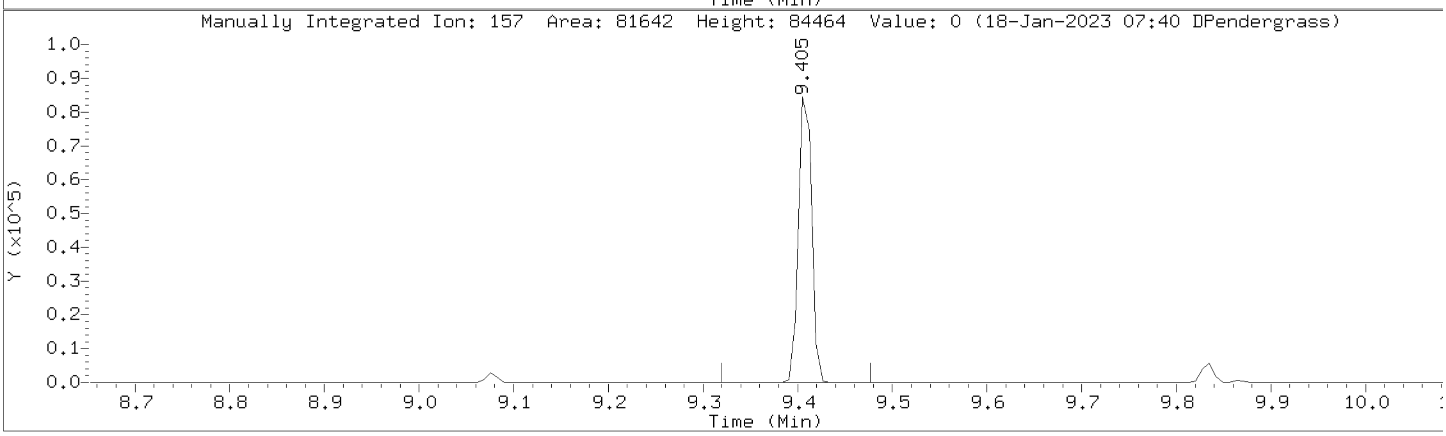
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8





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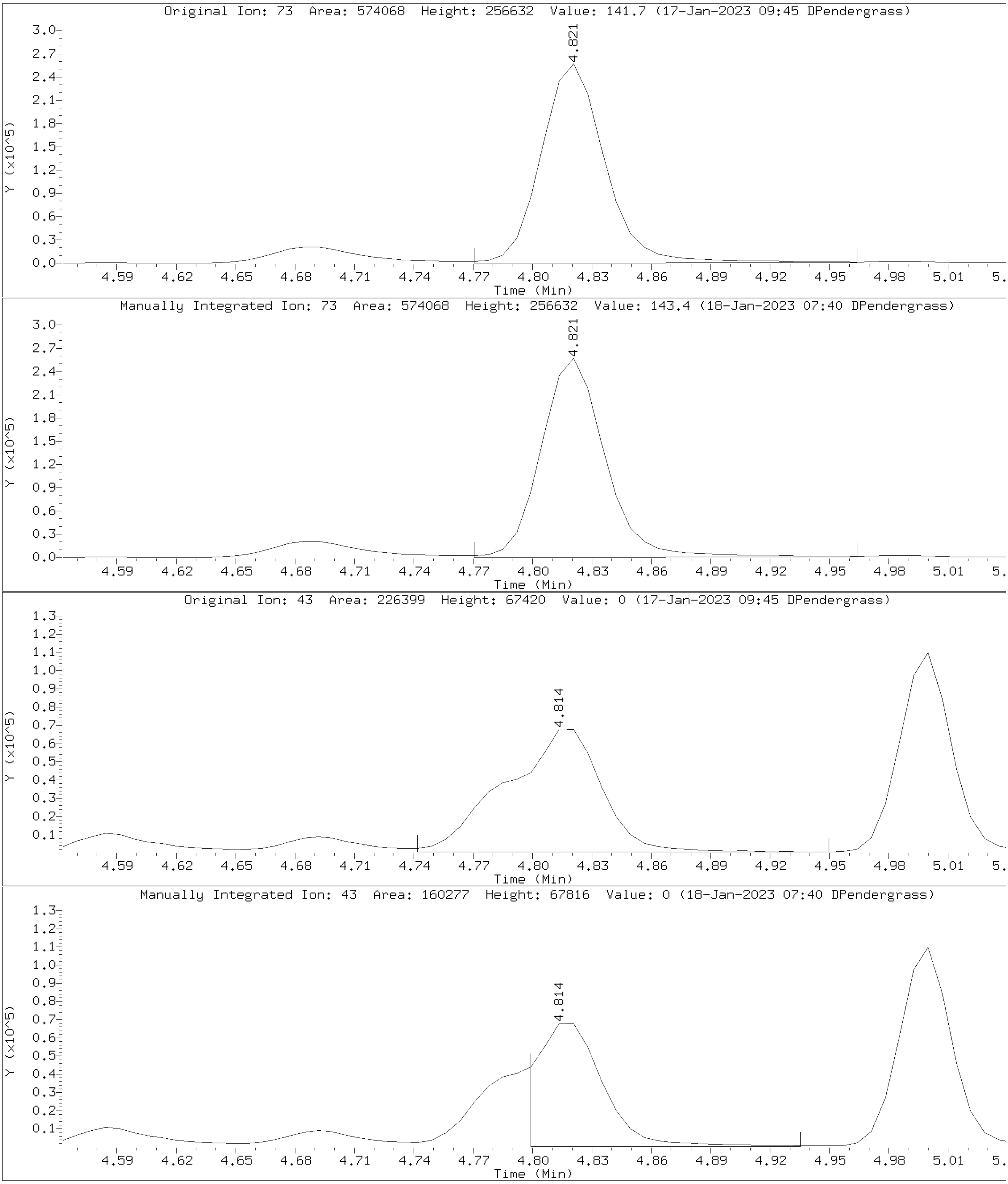
Injection Date: 16-JAN-2023 18:09
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL8

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b09.d
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Inj Date : 16-JAN-2023 18:42
Operator : DAP Inst ID: 50mvcb.i
Smp Info : 8260-cal9,335769:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 335769:0.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	1.174	1.175	(0.236)	490145	300.000	317	
2 Chloromethane	50	1.296	1.296	(0.260)	459006	300.000	300	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	534278	300.000	319	
4 Bromomethane	94	1.532	1.533	(0.307)	270003	300.000	346	
5 Chloroethane	64	1.582	1.590	(0.318)	276551	300.000	290	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	579551	300.000	302	
7 Diethyl ether	74	1.905	1.912	(0.382)	264715	300.000	293	
8 Acrolein	56	1.991	1.991	(0.399)	1653283	6000.00	5830	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	377688	300.000	294	
10 1,1-Dichloroethene	96	2.070	2.070	(0.415)	377365	300.000	296	
11 Acetone	43	2.091	2.091	(0.420)	463928	1500.00	1110	
12 Iodomethane	142	2.177	2.177	(0.437)	540574	300.000	301	
13 Carbon Disulfide	76	2.234	2.234	(0.448)	1191331	300.000	280	
14 Acetonitrile	39	2.313	2.313	(0.464)	275215	1500.00	1410	
15 allyl chloride	41	2.313	2.314	(0.464)	584850	300.000	255(M)	GT
16 Methyl Acetate	43	2.320	2.320	(0.466)	1384511	1500.00	1230	
17 tert-Butyl Alcohol	59	2.471	2.464	(0.496)	159426	1500.00	1330(M)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	405608	300.000	297	
19 Acrylonitrile	53	2.585	2.585	(0.519)	793606	1500.00	1530	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	1110821	300.000	272	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	410884	300.000	282	
22 n-Hexane	57	2.872	2.872	(0.576)	565925	300.000	317	
23 1,1-Dichloroethane	63	3.001	2.994	(0.602)	667693	300.000	269	

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	24 Vinyl Acetate	43	3.044	3.037	(0.611)	3132352	1200.00	1160	
	25 Diisopropyl ether	45	3.065	3.065	(0.615)	1017781	300.000	249	
	26 chloroprene	53	3.094	3.094	(0.621)	542600	300.000	276	
	27 Ethyl-tert-butyl ether	59	3.459	3.459	(0.694)	1123805	300.000	273	
	28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	538722	300.000	277	
	29 1,2-Dichloroethene (cis)	96	3.624	3.617	(0.727)	449879	300.000	279	
	30 2-Butanone	43	3.638	3.624	(0.730)	747474	1500.00	1180(M)	NI
	31 Ethyl Acetate	88	3.724	3.710	(0.747)	116548	1500.00	1470	
	32 Propionitrile	54	3.703	3.689	(0.743)	254834	1500.00	1400	
	33 Methacrylonitrile	41	3.903	3.889	(0.783)	1040808	1500.00	1290	
	34 Bromochloromethane	49	3.918	3.903	(0.786)	251195	300.000	231	
	35 Tetrahydrofuran	42	3.989	3.982	(0.800)	580418	1500.00	1270	
	36 Chloroform	83	4.018	4.011	(0.806)	634367	300.000	253	
$	37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	51509	50.0000	49.4	
	38 1,1,1-Trichloroethane	97	4.247	4.240	(0.852)	605616	300.000	292	
	39 Cyclohexane	56	4.319	4.312	(0.866)	661506	300.000	302	
	40 Carbon Tetrachloride	117	4.448	4.441	(0.892)	548472	300.000	303	
	41 1,1-Dichloropropene	75	4.441	4.433	(0.891)	529002	300.000	296	
	42 Isobutyl alcohol	43	4.584	4.577	(0.920)	60291	1500.00	1430	
	43 Benzene	78	4.670	4.670	(0.937)	1679847	300.000	272	
	44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	449692	300.000	296	
	45 2,2,4-Trimethylpentane	57	4.784	4.777	(0.960)	1201401	300.000	344	
	46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	1162170	300.000	289(M)	LT
*	47 Fluorobenzene	96	4.985	4.985	(1.000)	229527	50.0000		
	48 Trichloroethene	95	5.379	5.379	(1.079)	440932	300.000	286	
	49 Methylcyclohexane	55	5.587	5.587	(1.121)	512646	300.000	313	
	50 1,2-Dichloropropane	63	5.608	5.601	(1.125)	403815	300.000	299	
	51 Dibromomethane	93	5.723	5.716	(1.148)	236282	300.000	269	
	52 Methyl methacrylate	69	5.759	5.759	(1.155)	351909	300.000	314	
	53 1,4-Dioxane	88	5.766	5.071	(1.157)	26111	6000.00	6670	
	54 Bromodichloromethane	83	5.895	5.888	(1.182)	501538	300.000	301	
	55 2-Chloroethyl vinyl ether	63	6.224	6.210	(0.815)	1340799	1500.00	1410	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.831)	676273	300.000	267	
	57 4-Methyl-2-Pentanone	43	6.504	6.496	(0.852)	1877862	1500.00	1270	
$	58 Toluene-d8	98	6.597	6.589	(0.864)	229614	50.0000	49.2	
	59 Toluene	91	6.654	6.647	(0.871)	1828790	300.000	263	
	60 trans-1,3-Dichloropropene	75	6.833	6.826	(0.895)	609132	300.000	273	
	61 Ethyl Methacrylate	69	6.926	6.919	(0.907)	592638	300.000	292	
	62 1,1,2-Trichloroethane	83	6.969	6.962	(0.913)	301216	300.000	260	
	63 Tetrachloroethene	166	7.084	7.077	(0.928)	527687	300.000	280	
	64 1,3-Dichloropropane	76	7.091	7.091	(0.929)	613636	300.000	248	
	65 2-Hexanone	43	7.163	7.163	(0.938)	1363199	1500.00	1250	
	66 Dibromochloromethane	129	7.256	7.248	(0.950)	448650	300.000	274	
	67 1,2-Dibromoethane	107	7.327	7.320	(0.960)	400612	300.000	267	
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	180157	50.0000		
	69 Chlorobenzene	112	7.650	7.650	(1.002)	1216732	300.000	268	
	70 1,1,1,2-Tetrachloroethane	131	7.707	7.700	(1.009)	434596	300.000	277	
	71 Ethylbenzene	106	7.721	7.721	(1.011)	662444	300.000	279	
	72 m&p-Xylene	106	7.793	7.793	(1.021)	808336	300.000	269	
	73 o-Xylene	106	8.022	8.022	(1.051)	717696	300.000	259	
	74 Styrene	104	8.029	8.022	(1.052)	1224732	300.000	260	
	75 Bromoform	173	8.130	8.130	(0.915)	343900	300.000	290	
	76 Isopropylbenzene	105	8.223	8.223	(1.077)	1903535	300.000	276	
$	77 4-Bromofluorobenzene	95	8.301	8.301	(1.087)	83301	50.0000	49.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.387	8.380	(1.098)	886448	300.000	258	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.943)	503012	300.000	259	
80 1,2,3-Trichloropropane	110	8.395	8.395	(0.945)	162166	300.000	265	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.100)	137547	300.000	254	
82 n-Propylbenzene	91	8.438	8.438	(0.950)	2124796	300.000	285	
83 2-Chlorotoluene	91	8.488	8.481	(0.956)	1287551	300.000	284	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	1421947	300.000	275	
85 4-Chlorotoluene	126	8.538	8.538	(0.961)	452267	300.000	266	
86 tert-Butylbenzene	119	8.688	8.689	(0.978)	1528818	300.000	298(M)	GT
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	1526466	300.000	291	
88 sec-Butylbenzene	105	8.796	8.789	(0.990)	1845205	300.000	296	
89 1,3-Dichlorobenzene	146	8.853	8.846	(0.997)	867731	300.000	280	
90 p-Isopropyltoluene	119	8.860	8.853	(0.998)	1563089	300.000	287	
* 91 1,4-Dichlorobenzene-d4	152	8.882	8.874	(1.000)	92448	50.0000		
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.001)	891555	300.000	280	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.003)	1503907	300.000	287	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	1307989	300.000	296	
95 1,2-Dichlorobenzene	146	9.068	9.061	(1.021)	808677	300.000	274	
96 Hexachloroethane	201	9.190	9.190	(1.035)	283276	300.000	331	
97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.059)	121464	300.000	302(M)	NI
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.099)	500722	300.000	306	
99 Hexachlorobutadiene	225	9.834	9.834	(1.107)	290153	300.000	363	
100 Naphthalene	128	9.877	9.877	(1.112)	1391885	300.000	301	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.124)	376713	300.000	281	
102 2,methyl-naphthalene	142	10.415	10.415	(1.173)	47737	300.000	142	
103 1-Methylnaphthalene	142	10.522	10.522	(1.185)	21950	300.000	110	

QC Flag Legend

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.

Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b09.d

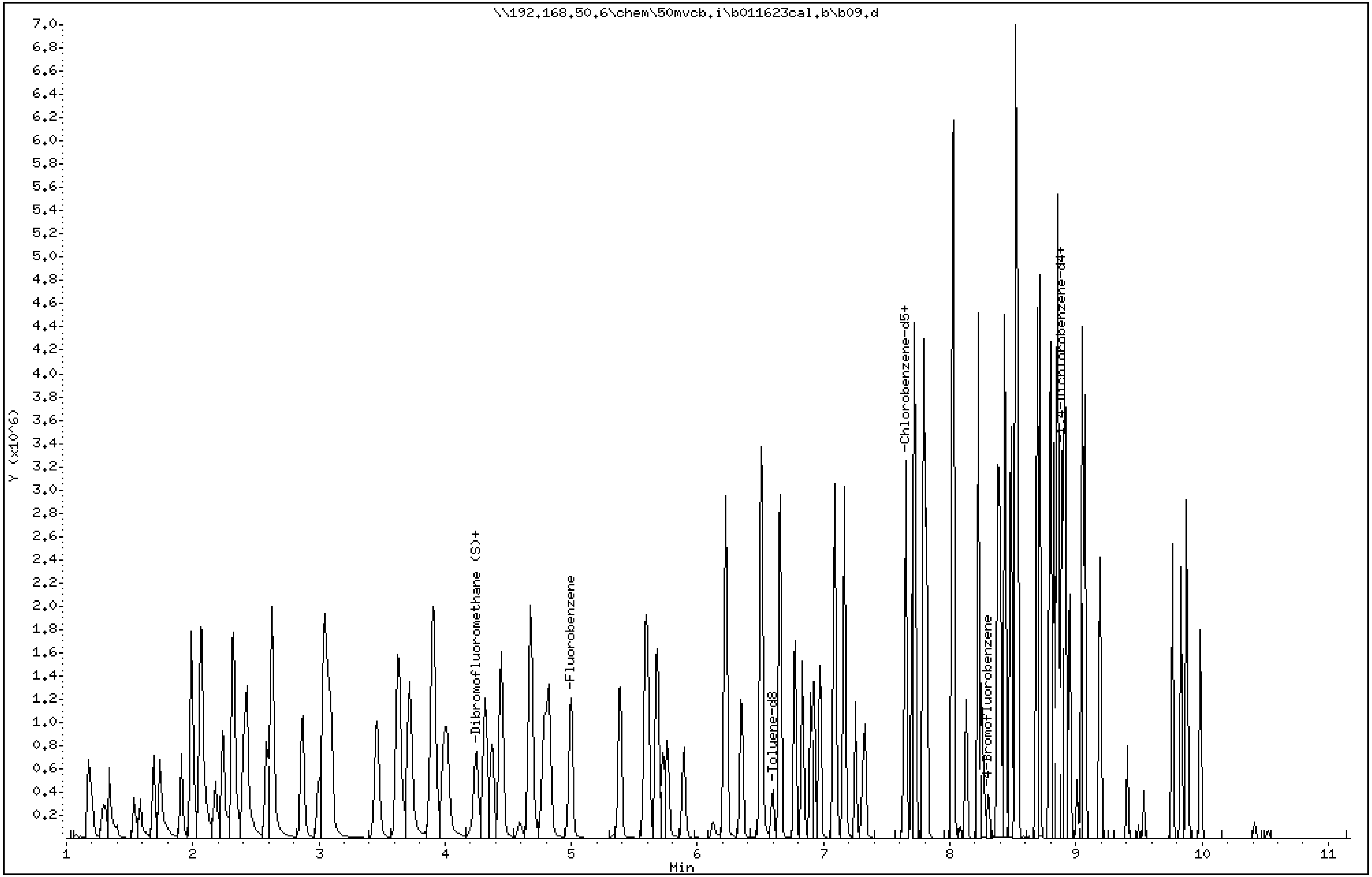
Date : 16-JAN-2023 18:42

Client ID: 8260-CAL9 Instrument: 50mvcb.i

Sample Info: 8260-CAL9,335769:0

Purge Volume: 5.0 Operator: DAP

Column phase: DB-624 Column diameter: 0.18



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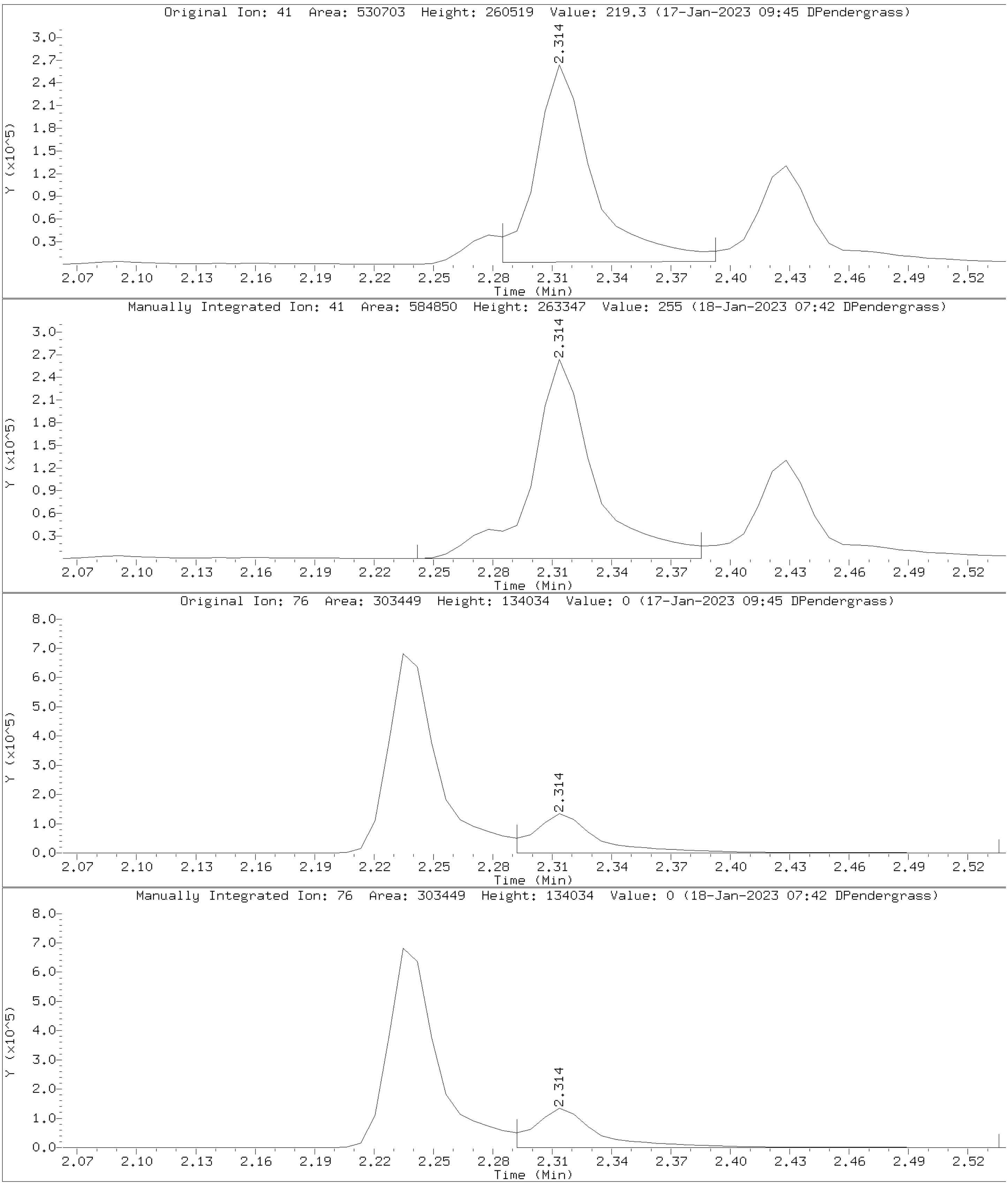
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: allyl chloride   Review Code: GT
CAS Number: 107-05-1



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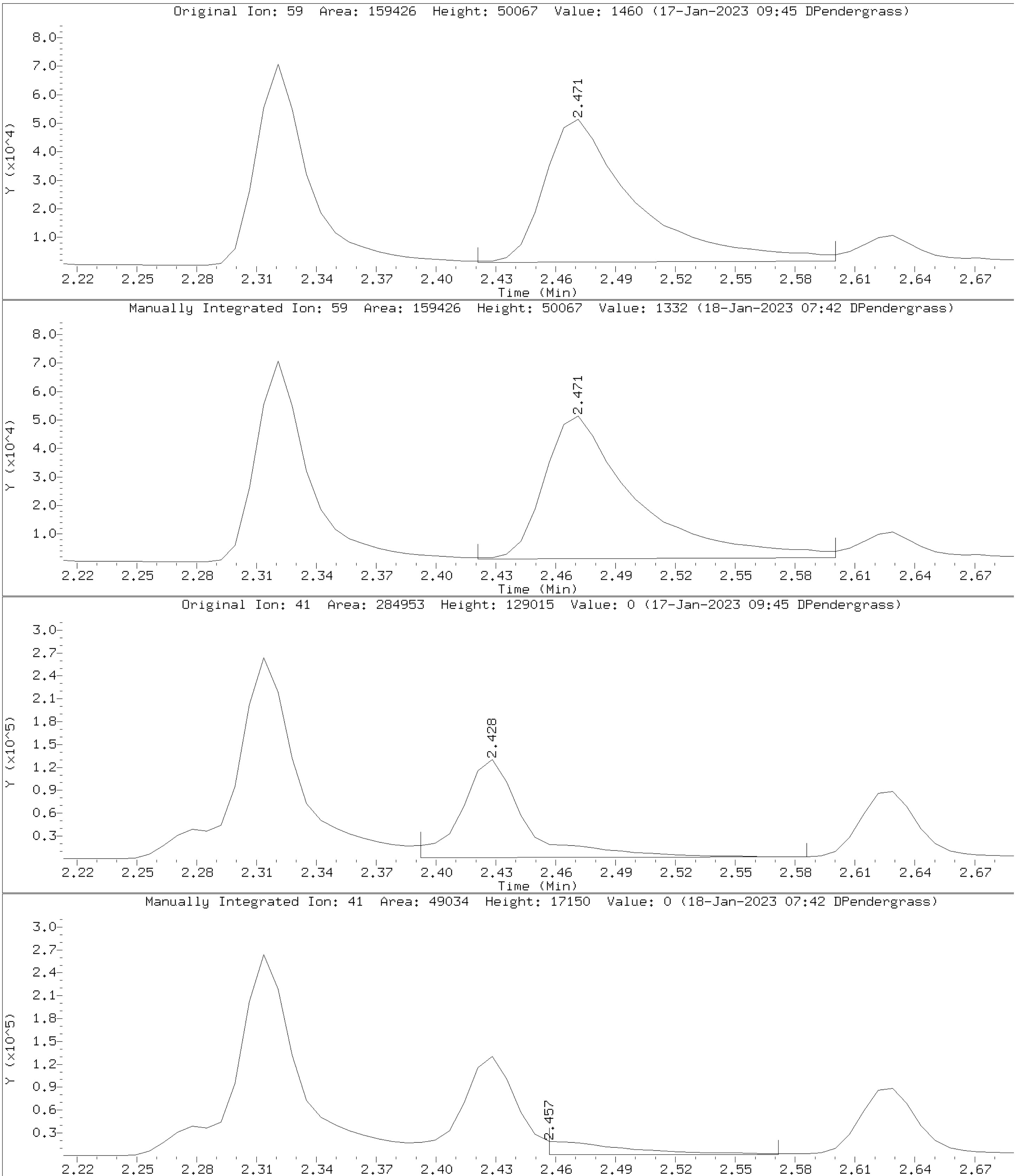
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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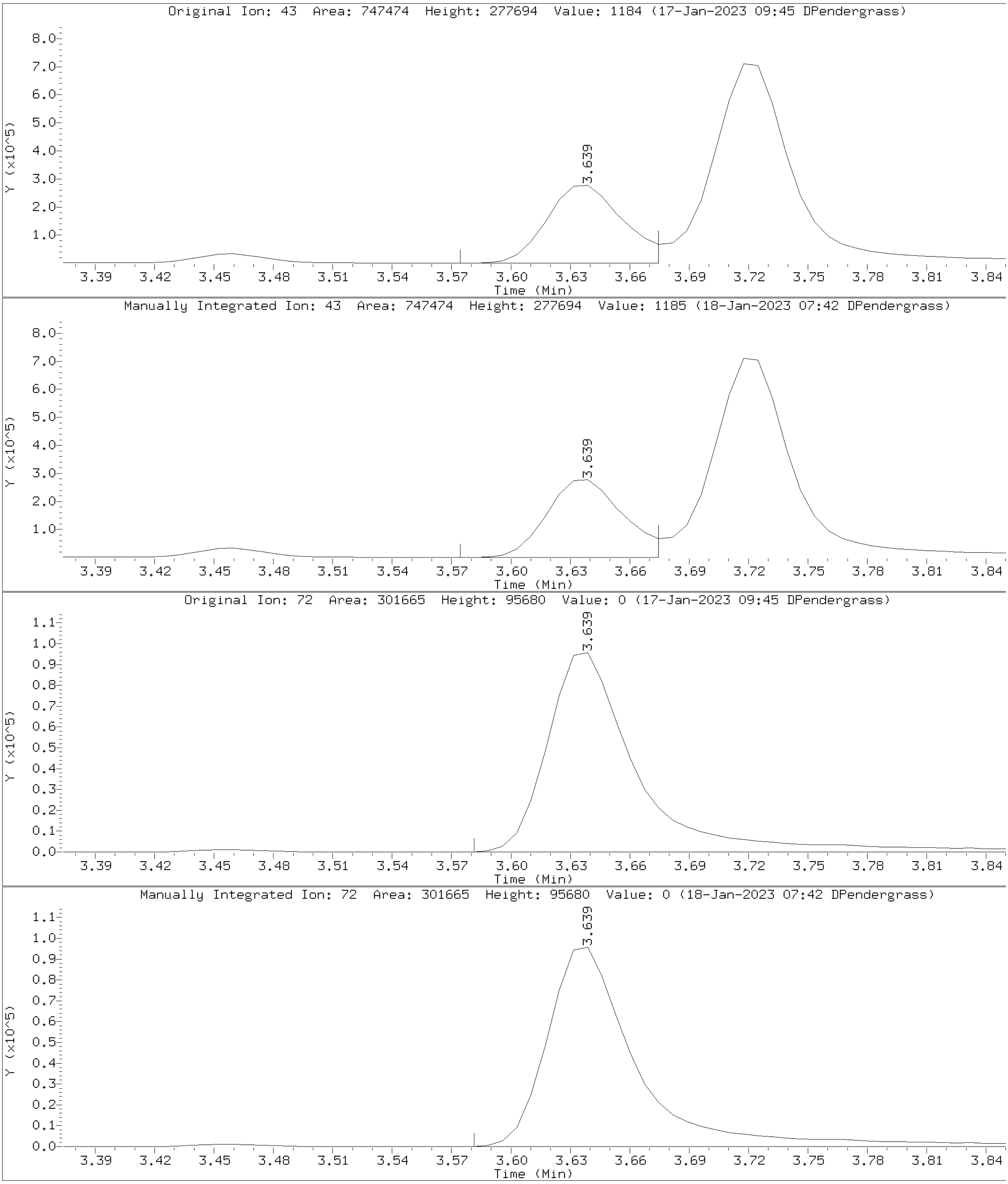
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: 2-Butanone   Review Code: NI
CAS Number: 78-93-3



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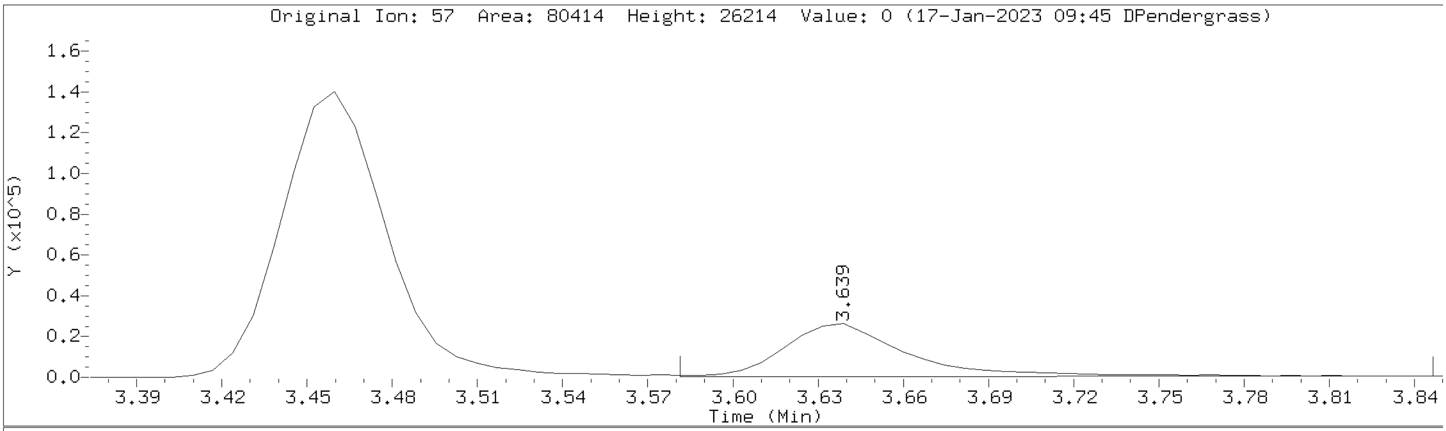
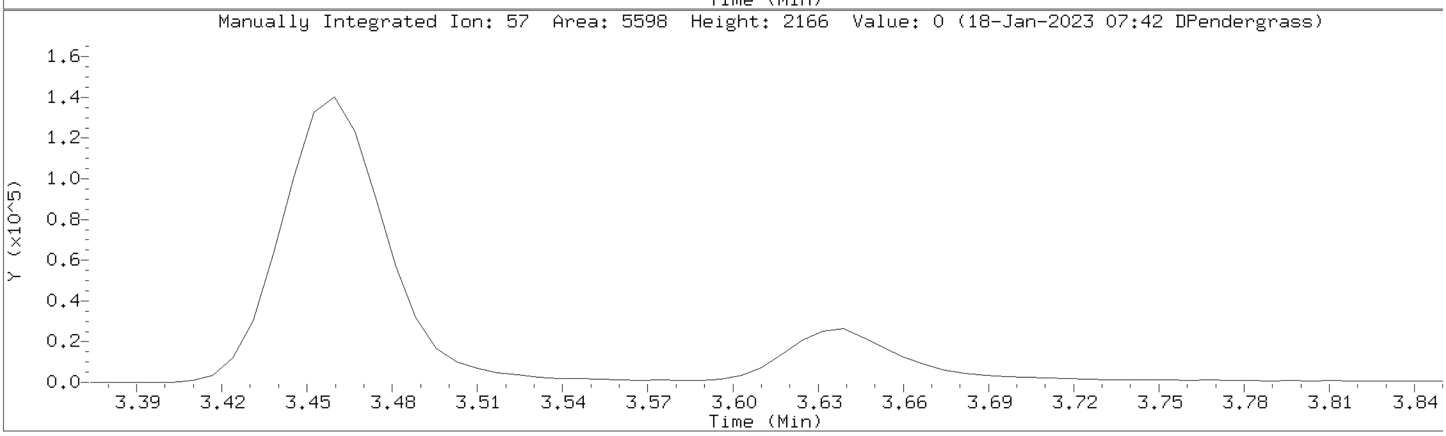
Lab Sample ID: 8260-CAL9





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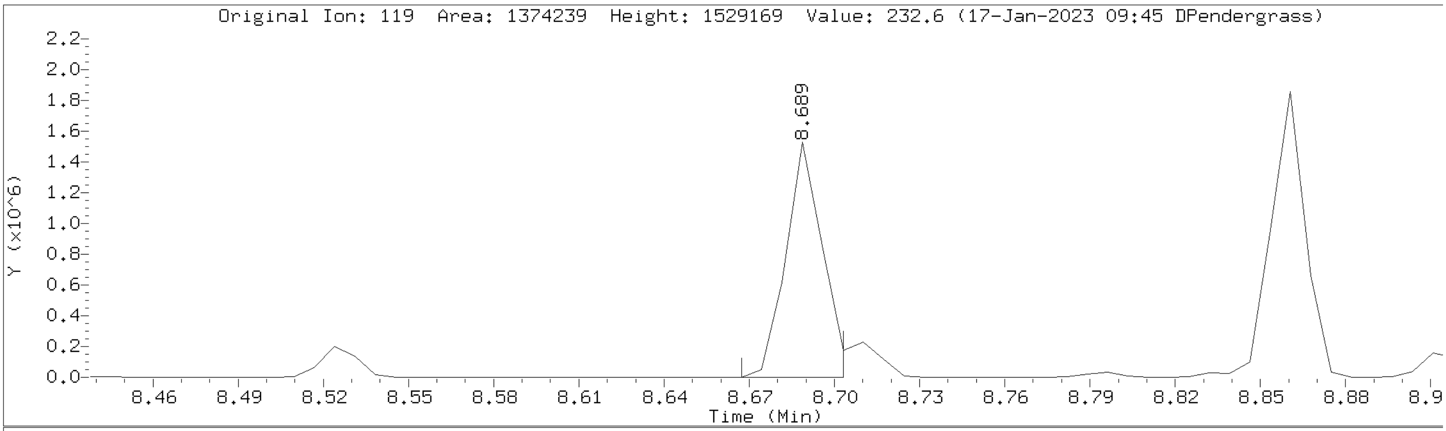
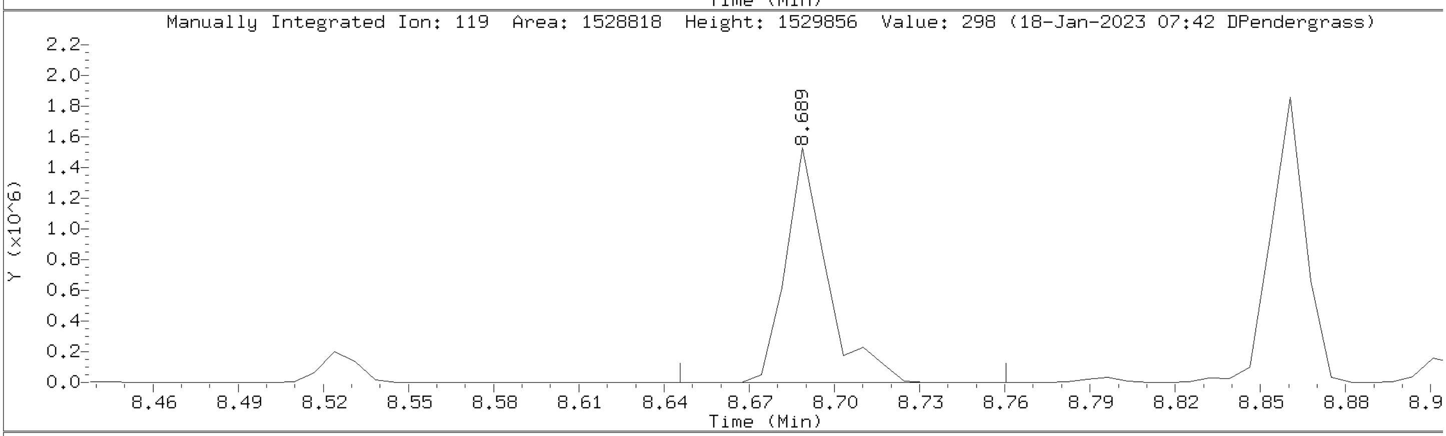
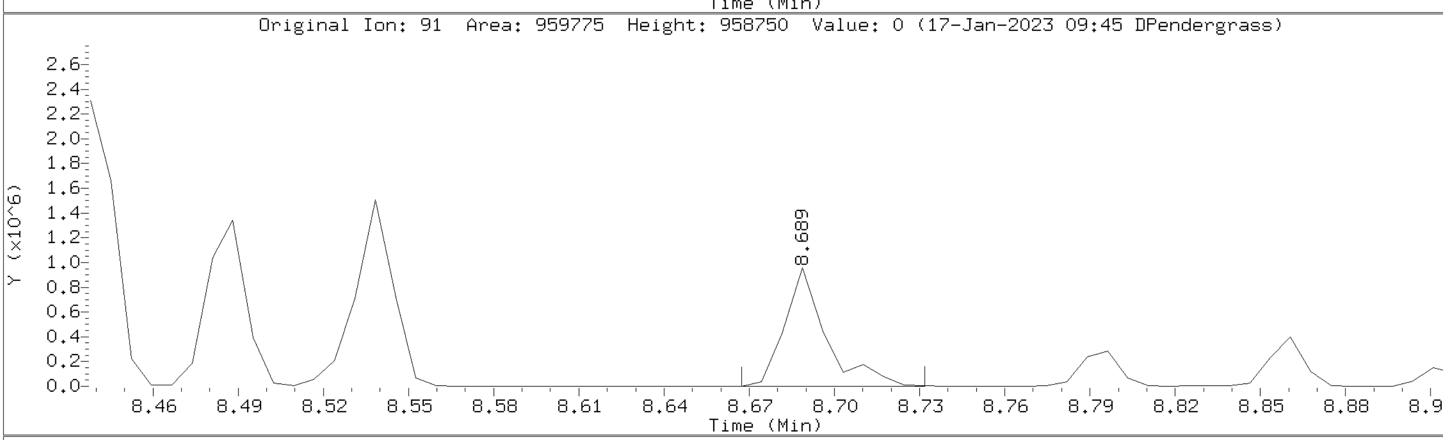
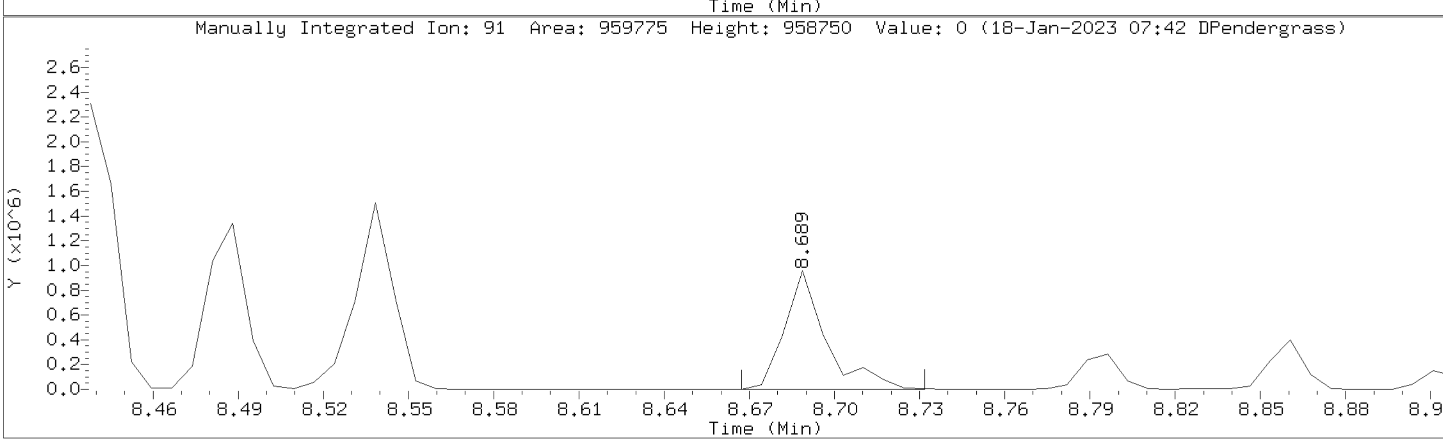
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: tert-Butylbenzene Review Code: GT
CAS Number: 98-06-6









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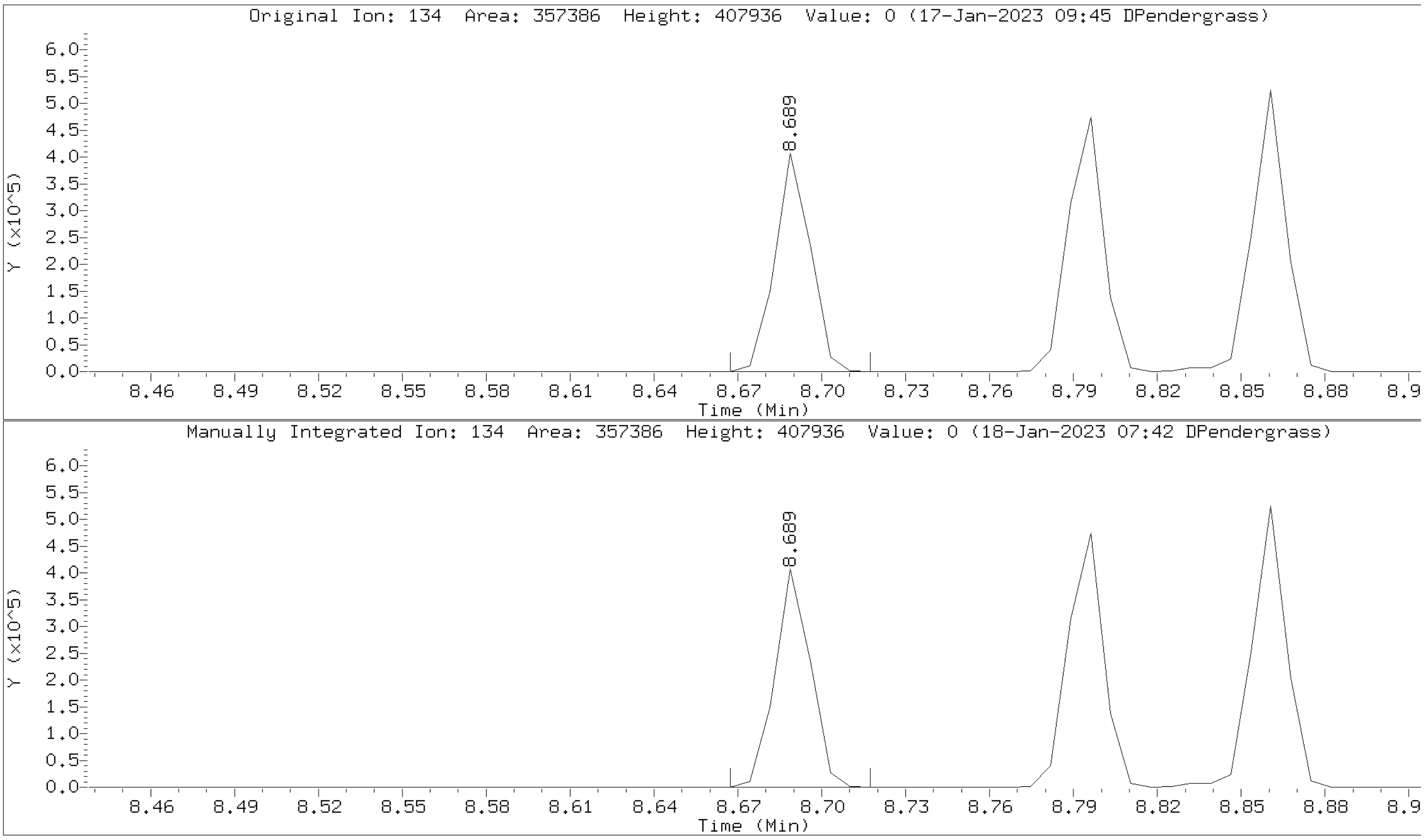

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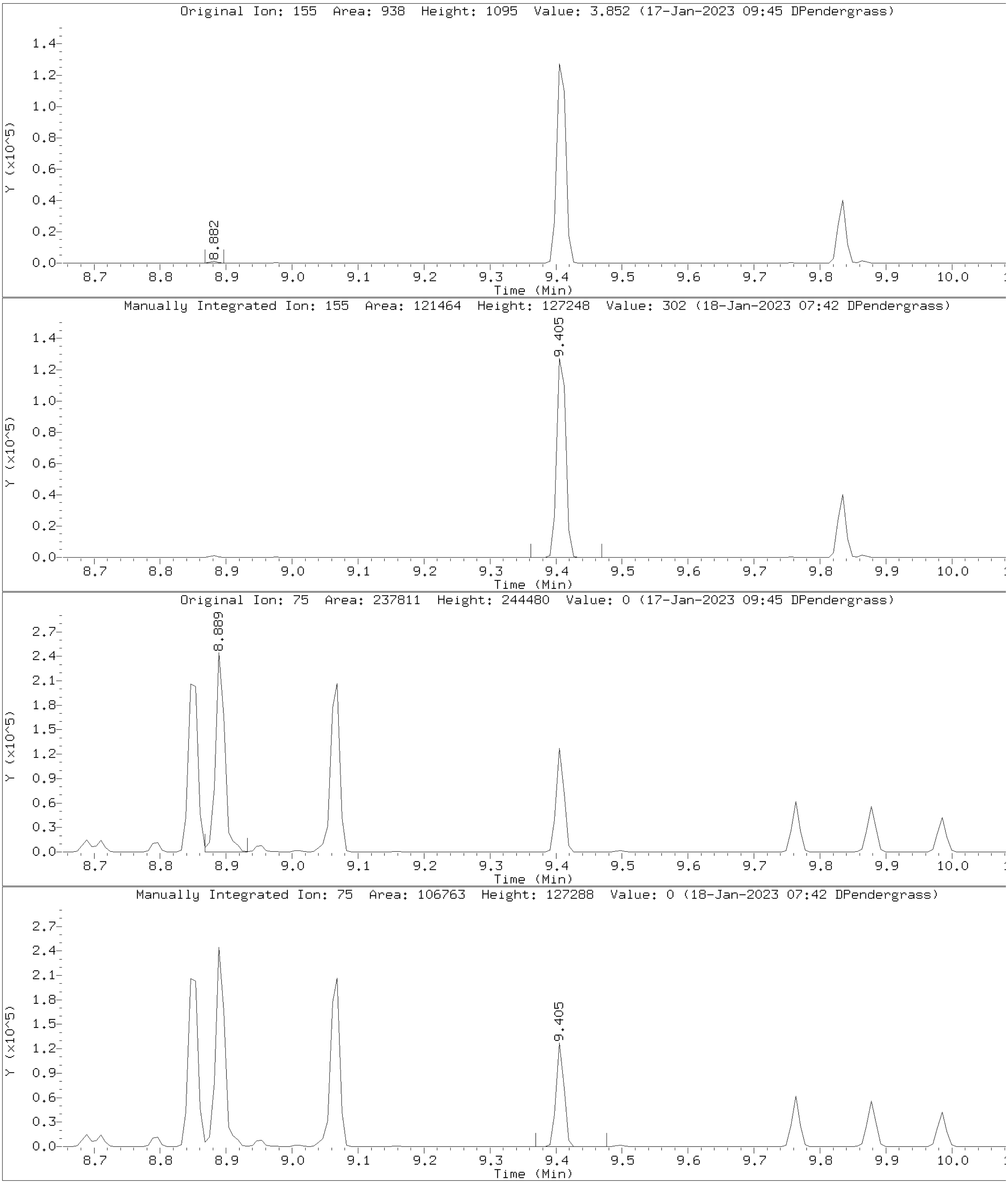
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8



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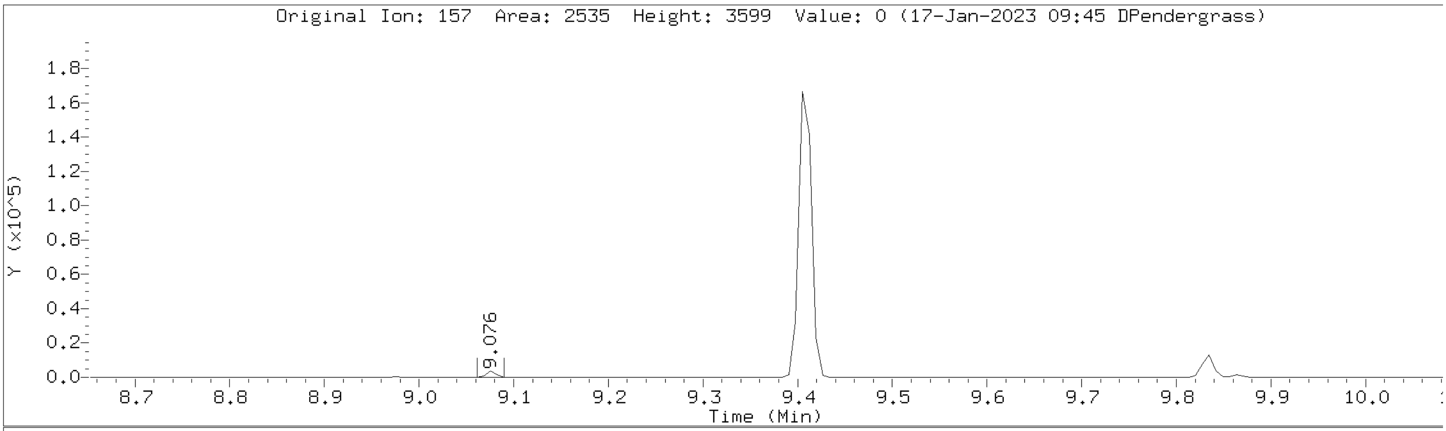
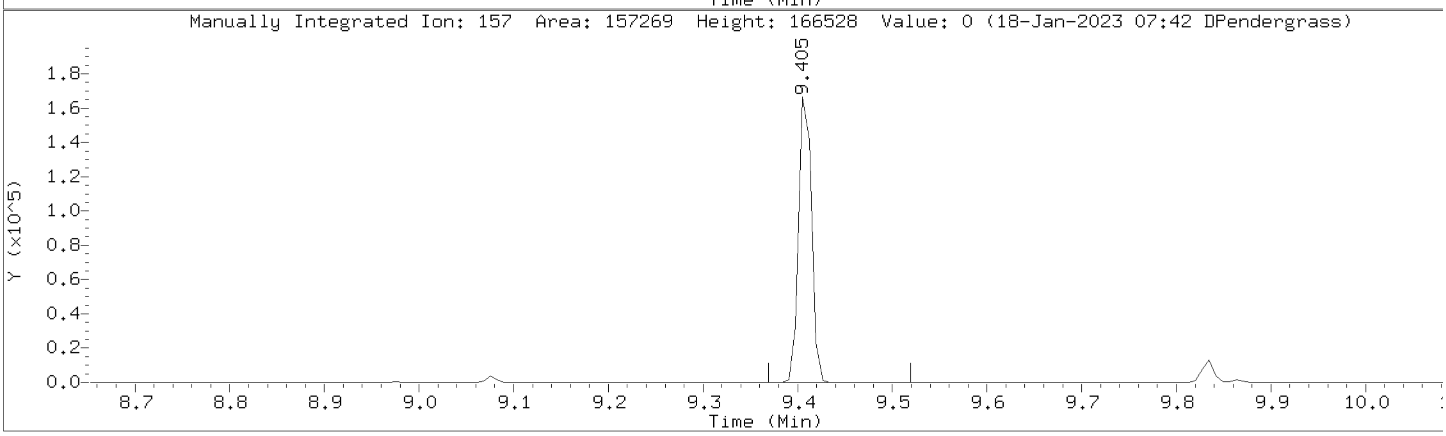
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9





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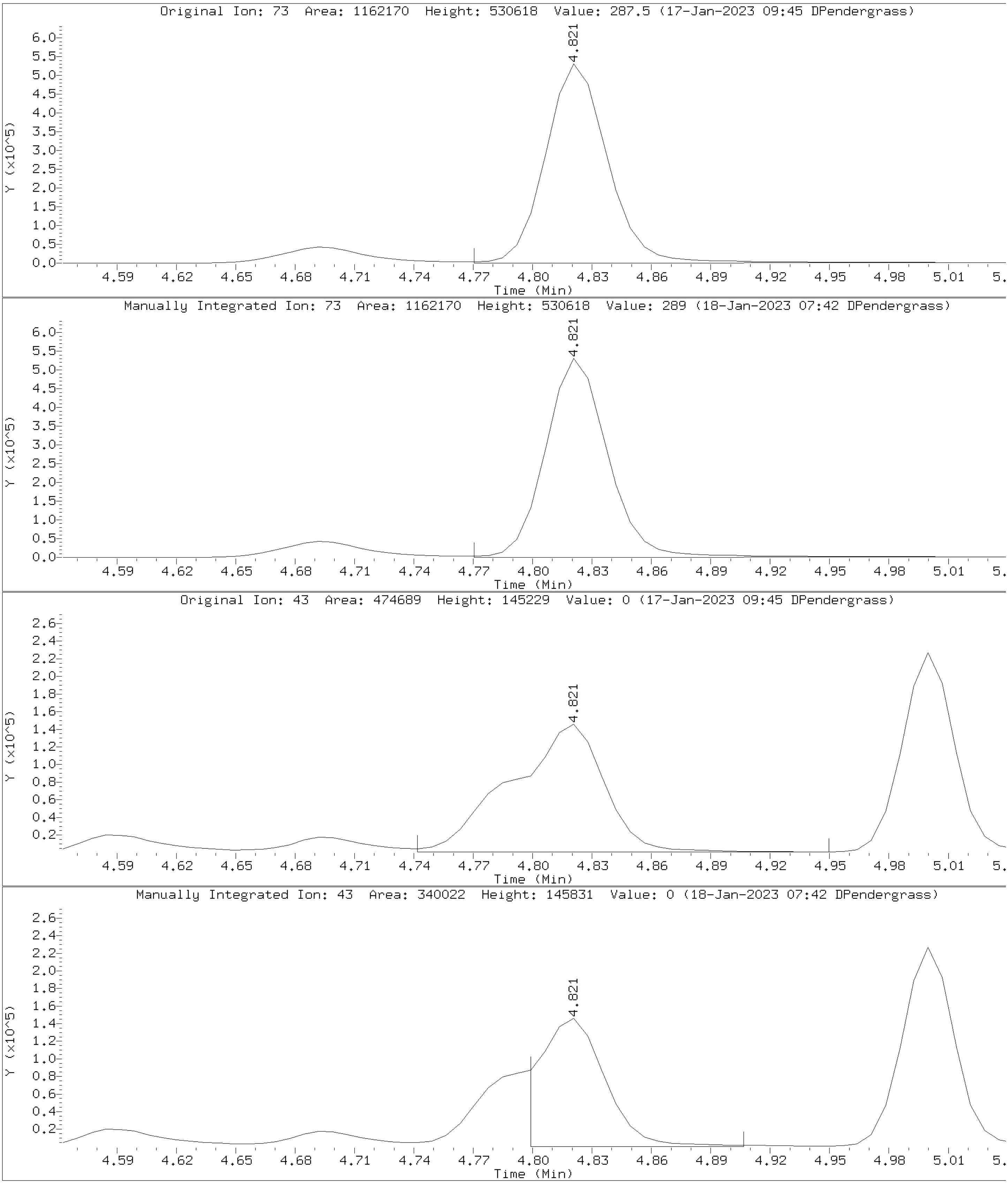
Injection Date: 16-JAN-2023 18:42
Instrument: 50mvcb.i
Lab Sample ID: 8260-CAL9

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a04.d
Lab Smp Id: 8260-CAL1 Client Smp ID: 8260-CAL1
Inj Date : 19-JAN-2023 14:47
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal1,335777:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	Compound Not Detected.						
2 Chloromethane	50	1.439	1.397	(0.280)	1869	0.50000	0.542	
3 Vinyl Chloride	62	1.411	1.397	(0.275)	1263	0.50000	0.371(M)	
4 Bromomethane	94	1.604	1.597	(0.312)	2015	0.50000	0.961	
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	1.819	1.805	(0.354)	1219	0.50000	0.311	
7 Diethyl ether	74	1.998	1.977	(0.389)	1243	0.50000	0.726	
8 Acrolein	56	2.105	2.085	(0.410)	7542	10.0000	9.67(M)	LT
9 1,1,2trichlorotrifluoroethane	101	2.148	2.134	(0.418)	1048	0.50000	0.409	
10 1,1-Dichloroethene	96	2.163	2.149	(0.421)	1653	0.50000	0.622	
11 Acetone	43	2.206	2.192	(0.430)	4960	2.50000	3.26(M)	GT
12 Iodomethane	142	2.284	2.271	(0.445)	748	0.50000	0.313	
13 Carbon Disulfide	76	2.335	2.321	(0.455)	4506	0.50000	0.566	
14 Acetonitrile	39	2.428	2.407	(0.473)	3311	2.50000	0.636(M)	GT
15 allyl chloride	41	2.428	2.407	(0.473)	4521	0.50000	0.628(M)	NI
16 Methyl Acetate	43	2.442	2.421	(0.476)	10101	2.50000	2.85	
17 Methylene Chloride	84	2.528	2.507	(0.492)	5727	0.50000	0.472	
18 tert-Butyl Alcohol	59	2.614	2.586	(0.509)	1932	2.50000	3.56(M)	GT
19 Acrylonitrile	53	2.750	2.722	(0.536)	4476	2.50000	2.68	
20 Methyl-tert-butyl ether	73	2.750	2.722	(0.536)	4644	0.50000	0.582	
21 1,2-Dichloroethene (trans)	96	2.750	2.729	(0.536)	1972	0.50000	0.641	
22 n-Hexane	57	2.972	2.951	(0.579)	3255	0.50000	0.682	
23 1,1-Dichloroethane	63	3.151	3.130	(0.614)	2509	0.50000	0.523(M)	NI

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.194	3.166	(0.622)	14842	2.00000	1.75(M)	GT
	25 Diisopropyl ether	45	3.201	3.166	(0.623)	5606	0.50000	0.552(M)	GT
	26 chloroprene	53	3.230	3.209	(0.629)	1917	0.50000	0.458(M)	NI
	27 Ethyl-tert-butyl ether	59	3.602	3.567	(0.702)	4382	0.50000	0.526	
	28 2,2-Dichloropropane	77	3.803	3.768	(0.741)	1965	0.50000	0.517	
	29 1,2-Dichloroethene (cis)	96	3.810	3.775	(0.742)	2176	0.50000	0.630	
	30 2-Butanone	43	3.853	3.811	(0.750)	6592	2.50000	2.73(M)	
	31 Ethyl Acetate	88	3.910	3.868	(0.761)	244	2.50000	1.42(M)	NI
	32 Propionitrile	54	3.946	3.911	(0.768)	1948	2.50000	2.80(M)	WP
	33 Methacrylonitrile	41	4.118	4.090	(0.802)	11428	2.50000	2.87(M)	LT
	34 Bromochloromethane	49	4.104	4.075	(0.799)	1318	0.50000	0.526	
	35 Tetrahydrofuran	42	4.168	4.133	(0.812)	6109	2.50000	3.06	
	36 Chloroform	83	4.197	4.176	(0.817)	2883	0.50000	0.594	
$	37 Dibromofluoromethane (S)	113	4.390	4.362	(0.855)	120657	50.0000	48.8	
	38 1,1,1-Trichloroethane	97	4.398	4.370	(0.856)	2153	0.50000	0.502	
	39 Cyclohexane	56	4.441	4.413	(0.865)	2933	0.50000	0.555(M)	GT
	40 Carbon Tetrachloride	117	4.577	4.549	(0.891)	1646	0.50000	0.426	
	41 1,1-Dichloropropene	75	4.584	4.563	(0.893)	1684	0.50000	0.492	
	42 Isobutyl alcohol	43	4.777	4.749	(0.930)	794	2.50000	3.43(M)	GT
	43 Benzene	78	4.827	4.799	(0.940)	5892	0.50000	0.535	
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	4.892	4.864	(0.953)	4920	0.50000	0.630	
	46 tert-Amylmethyl ether	73	4.956	4.928	(0.965)	4959	0.50000	0.587(M)	GT
*	47 Fluorobenzene	96	5.135	5.107	(1.000)	485725	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.074)	1495	0.50000	0.529	
	49 Methylcyclohexane	55	5.694	5.673	(1.109)	2588	0.50000	0.612	
	50 1,2-Dichloropropane	63	5.773	5.745	(1.124)	1594	0.50000	0.552(M)	NI
	51 Dibromomethane	93	5.887	5.867	(1.146)	918	0.50000	0.520	
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	5.895	5.881	(1.148)	1613	0.50000	0.599(M)	GT
	54 Bromodichloromethane	83	6.052	6.031	(1.179)	1899	0.50000	0.542(M)	NI
	55 2-Chloroethyl vinyl ether	63	6.367	6.347	(0.822)	5802	2.50000	2.77	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	2503	0.50000	0.581	
	57 4-Methyl-2-Pentanone	43	6.647	6.626	(0.858)	13380	2.50000	2.70	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	463379	50.0000	51.1	
	59 Toluene	91	6.769	6.748	(0.874)	7118	0.50000	0.562	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	2275	0.50000	0.566	
	61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	2387	0.50000	0.578(M)	NI
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	1098	0.50000	0.537	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	1415	0.50000	0.457	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	2386	0.50000	0.595	
	65 2-Hexanone	43	7.284	7.271	(0.941)	11101	2.50000	2.80(M)	GT
	66 Dibromochloromethane	129	7.377	7.364	(0.953)	1311	0.50000	0.455	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	1405	0.50000	0.523	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	343725	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	4141	0.50000	0.537	
	70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	1296	0.50000	0.468	
	71 Ethylbenzene	106	7.822	7.815	(1.010)	2385	0.50000	0.553	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	2550	0.50000	0.484	
	73 o-Xylene	106	8.122	8.116	(1.049)	2650	0.50000	0.531	
	74 Styrene	104	8.137	8.122	(1.051)	4620	0.50000	0.530	
	75 Bromoform	173	8.251	8.238	(0.916)	945	0.50000	0.480(M)	NI
	76 Isopropylbenzene	105	8.330	8.316	(1.076)	6603	0.50000	0.504	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	142032	50.0000	49.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	2600	0.50000	0.600	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	2115	0.50000	0.617(M)	NI
80 1,2,3-Trichloropropane	110	8.523	8.516	(0.947)	587	0.50000	0.523(M)	NI
81 trans-1,4-Dichloro-2-butene	53	8.523	8.516	(1.101)	815	0.50000	0.588(M)	NI
82 n-Propylbenzene	91	8.545	8.538	(0.949)	8152	0.50000	0.573	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	4575	0.50000	0.600	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	5127	0.50000	0.552	
85 4-Chlorotoluene	126	8.652	8.638	(0.961)	1498	0.50000	0.519	
86 tert-Butylbenzene	119	8.796	8.789	(0.977)	4817	0.50000	0.529	
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.979)	5282	0.50000	0.567	
88 sec-Butylbenzene	105	8.903	8.897	(0.989)	5923	0.50000	0.524	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.996)	2700	0.50000	0.543	
90 p-Isopropyltoluene	119	8.968	8.961	(0.996)	4827	0.50000	0.510	
* 91 1,4-Dichlorobenzene-d4	152	9.003	8.997	(1.000)	152211	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.001)	2811	0.50000	0.563	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.002)	4813	0.50000	0.561(M)	WP
94 n-Butylbenzene	91	9.161	9.162	(1.018)	4352	0.50000	0.562	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.021)	2070	0.50000	0.490(M)	WP
96 Hexachloroethane	201	9.311	9.312	(1.034)	449	0.50000	0.384(M)	NI
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.062)	189	0.50000	0.287(M)	NI
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.103)	796	0.50000	0.593(M)	NI
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	296	0.50000	0.457(M)	NI
100 Naphthalene	128	10.064	10.064	(1.118)	2332	0.50000	0.562	
101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.130)	354	0.50000	0.474(M)	NI
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

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).
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
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\50mvda.i\a011923cal.b\a04.d

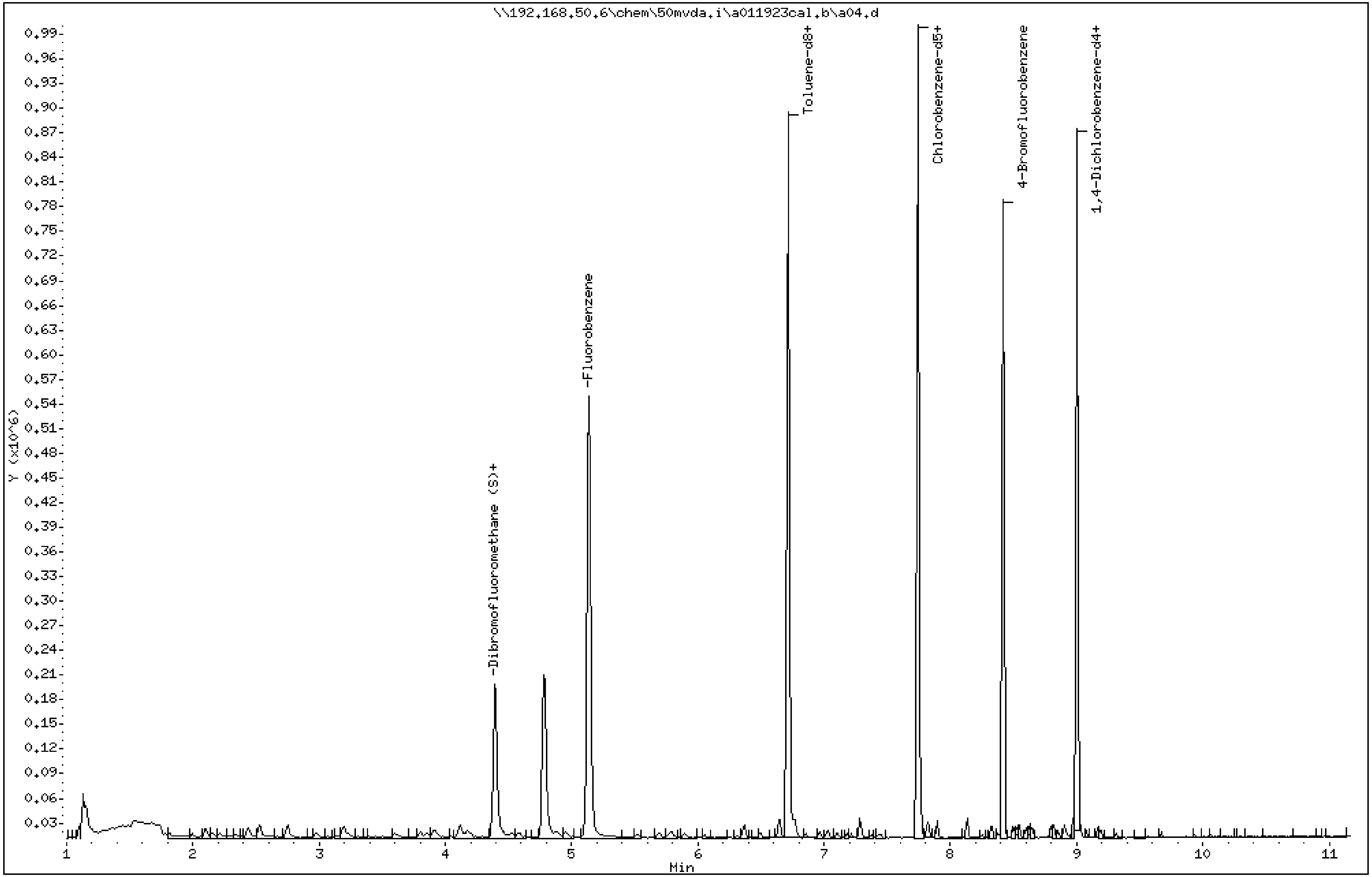
Date : 19-JAN-2023 14:47

Client ID: 8260-CAL1 Instrument: 50mvda.i

Sample Info: 8260-CAL1,335777:0

Purge Volume: 5.0 Operator: ala

Column phase: DB-624 Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a04.d

Date : 19-JAN-2023 14:47

Client ID: 8260-CAL1

Instrument: 50mvda.i

Sample Info: 8260-CAL1,335777:0

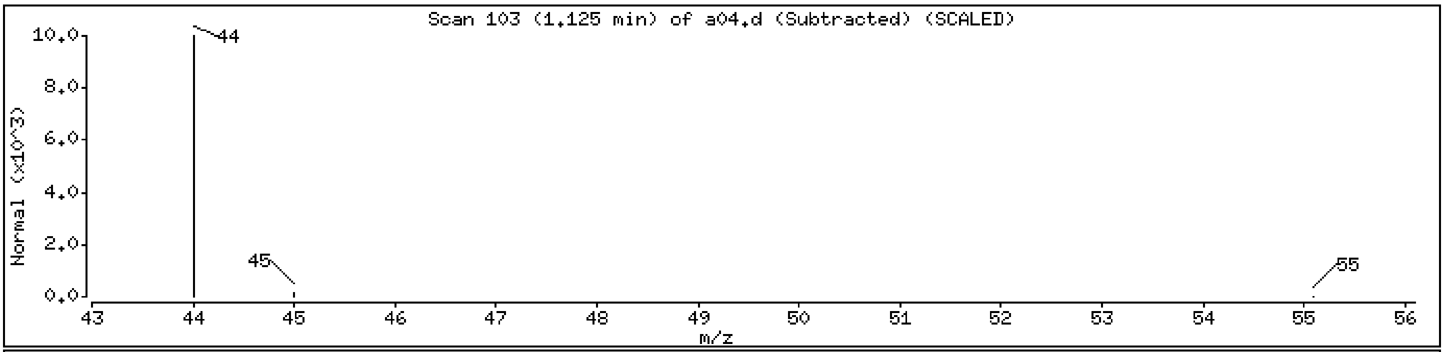
Purge Volume: 5.0

Operator: ala

Column phase: DB-624

Column diameter: 0.18

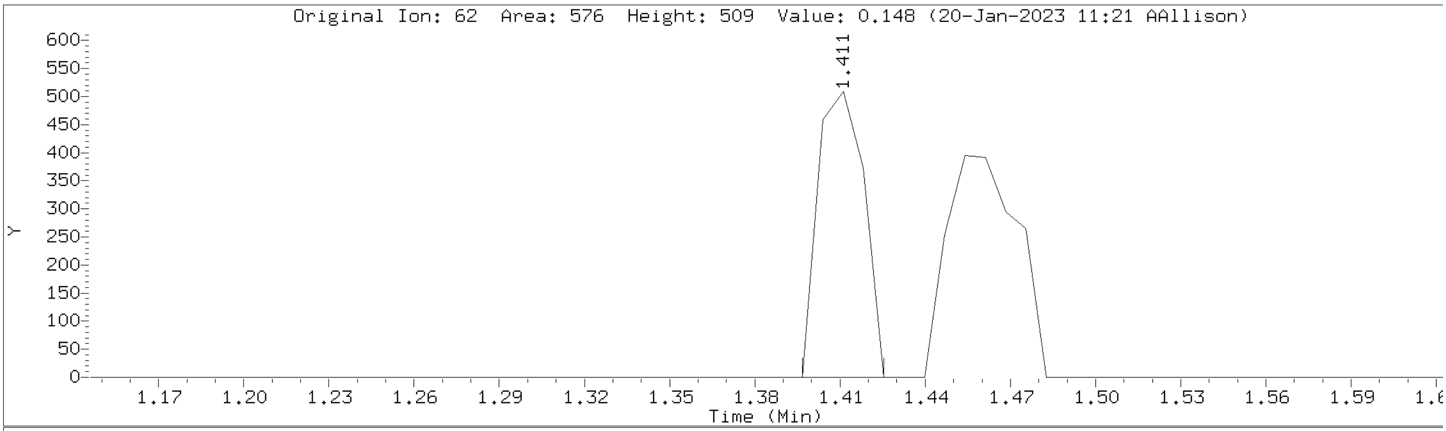
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



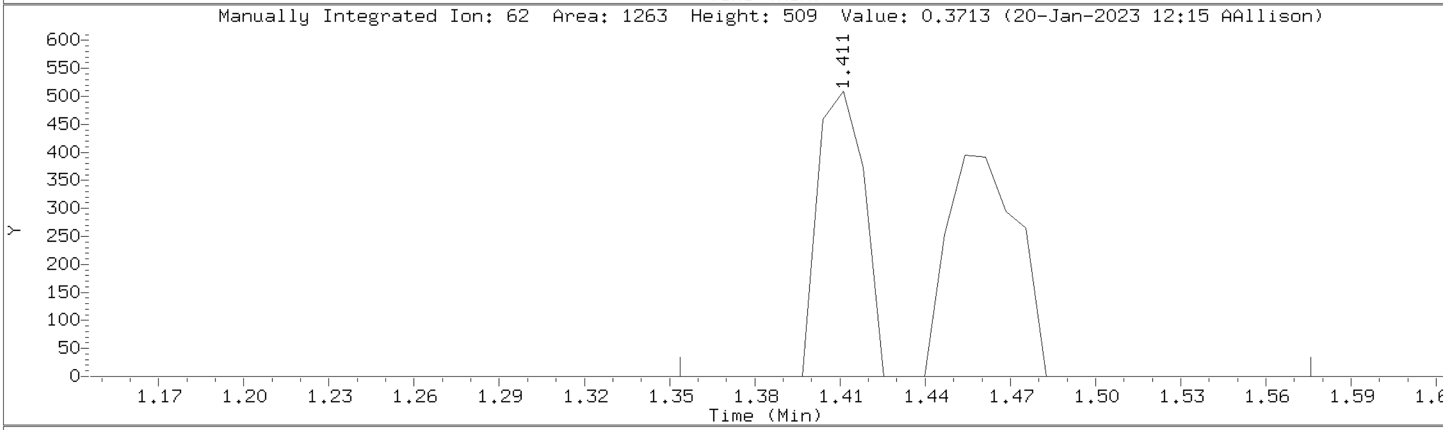
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Chloride   Review Code:
CAS Number: 75-01-4

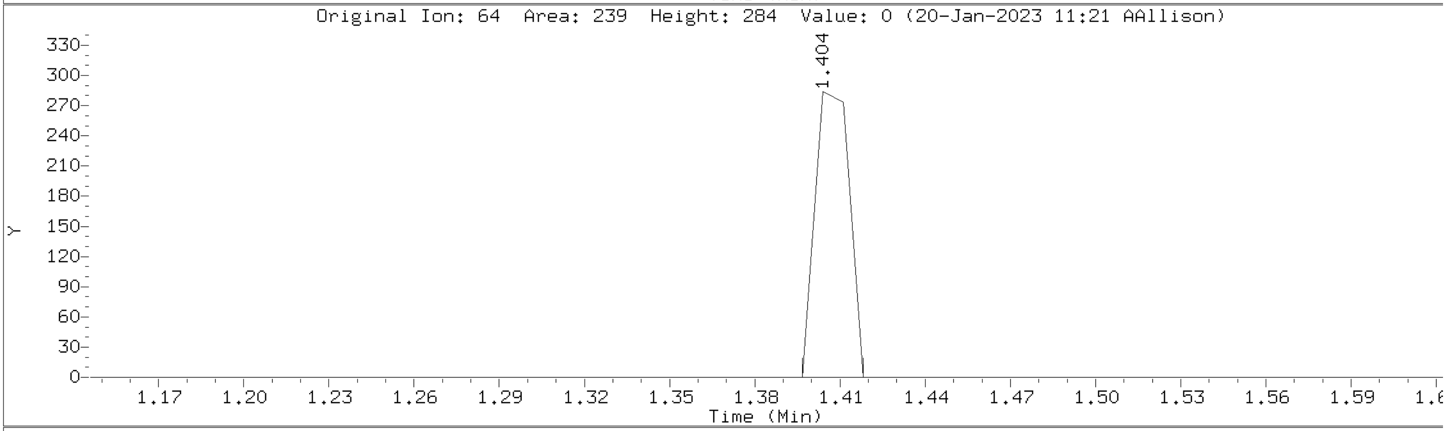
Original Ion: 62 Area: 576 Height: 509 Value: 0.148 (20-Jan-2023 11:21 AAllison)



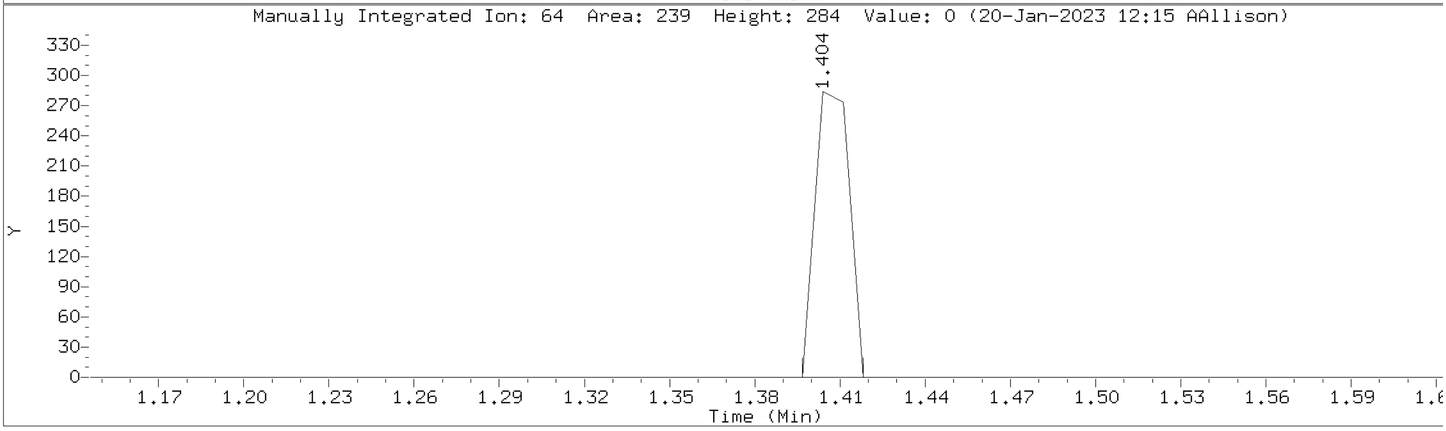
Manually Integrated Ion: 62 Area: 1263 Height: 509 Value: 0.3713 (20-Jan-2023 12:15 AAllison)



Original Ion: 64 Area: 239 Height: 284 Value: 0 (20-Jan-2023 11:21 AAllison)

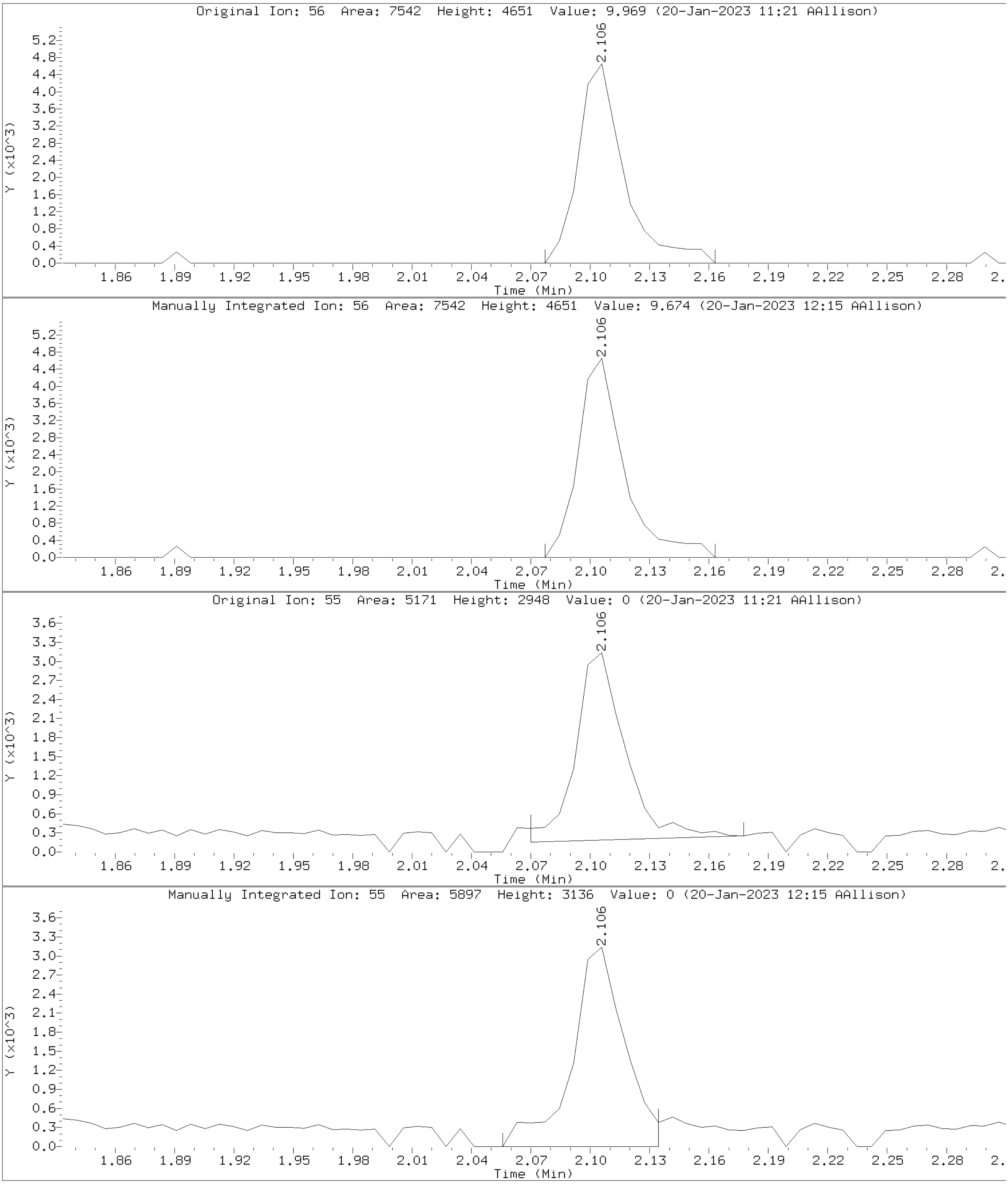


Manually Integrated Ion: 64 Area: 239 Height: 284 Value: 0 (20-Jan-2023 12:15 AAllison)



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Acrolein   Review Code: LT
CAS Number: 107-02-8



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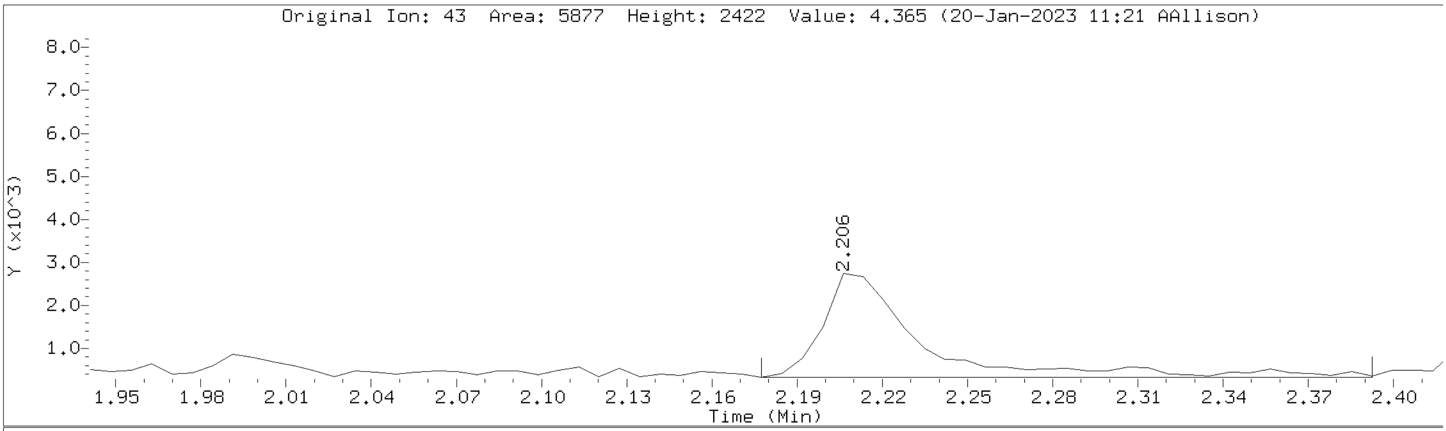
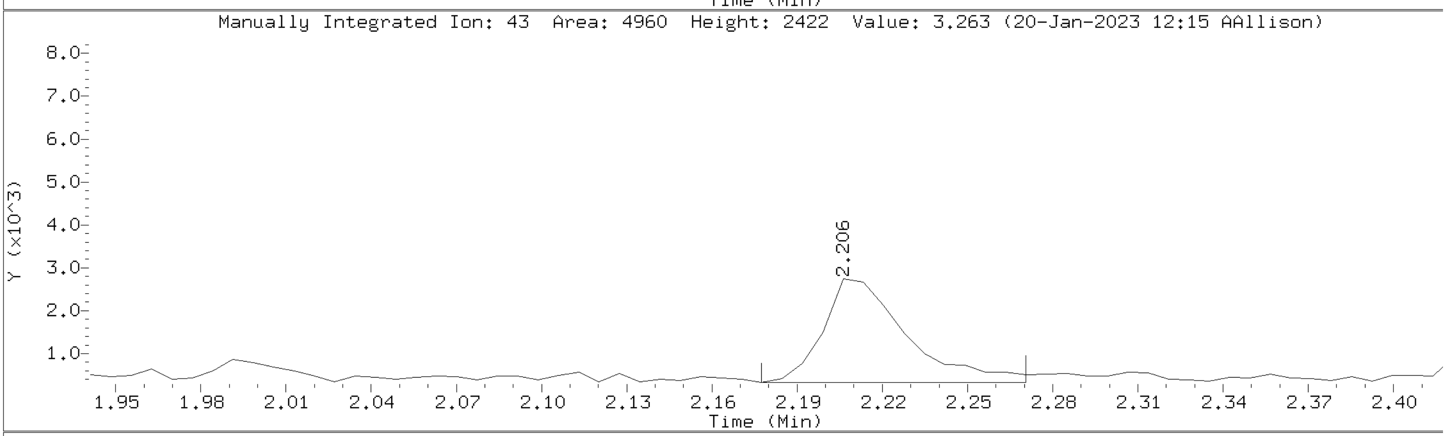
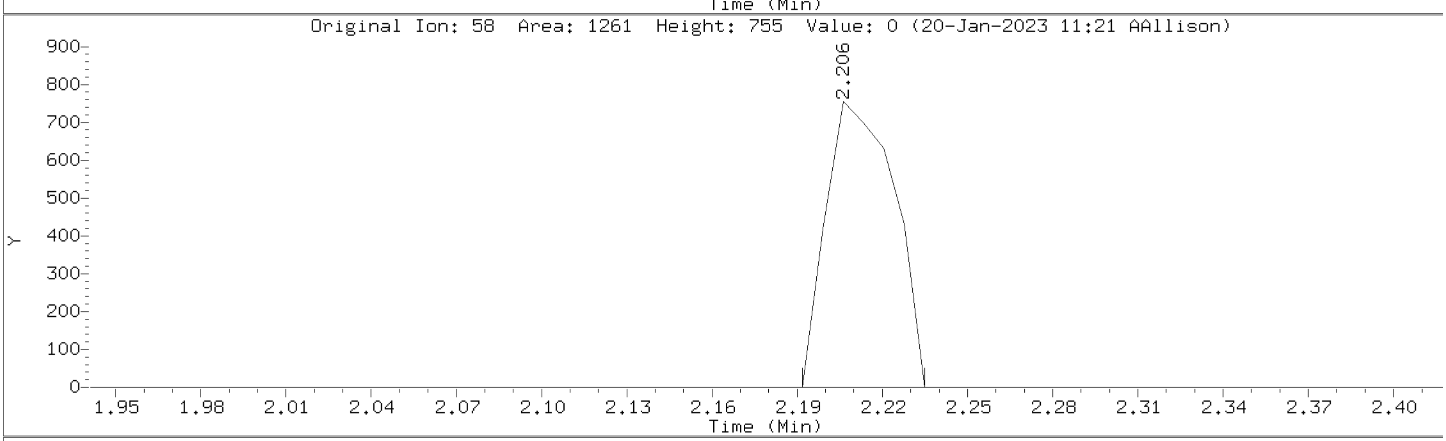
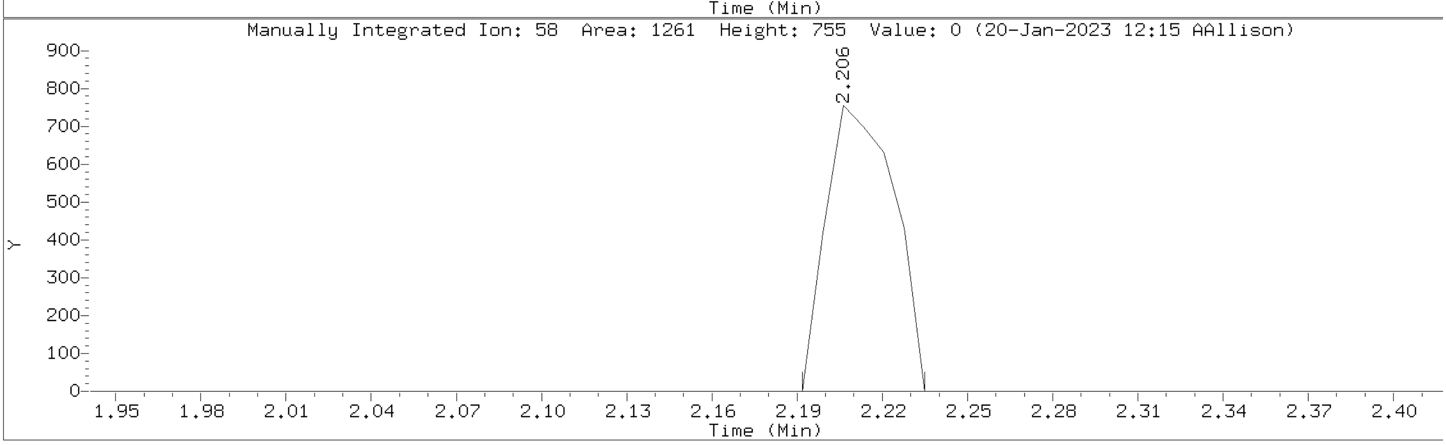
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Acetone   Review Code: GT
CAS Number: 67-64-1









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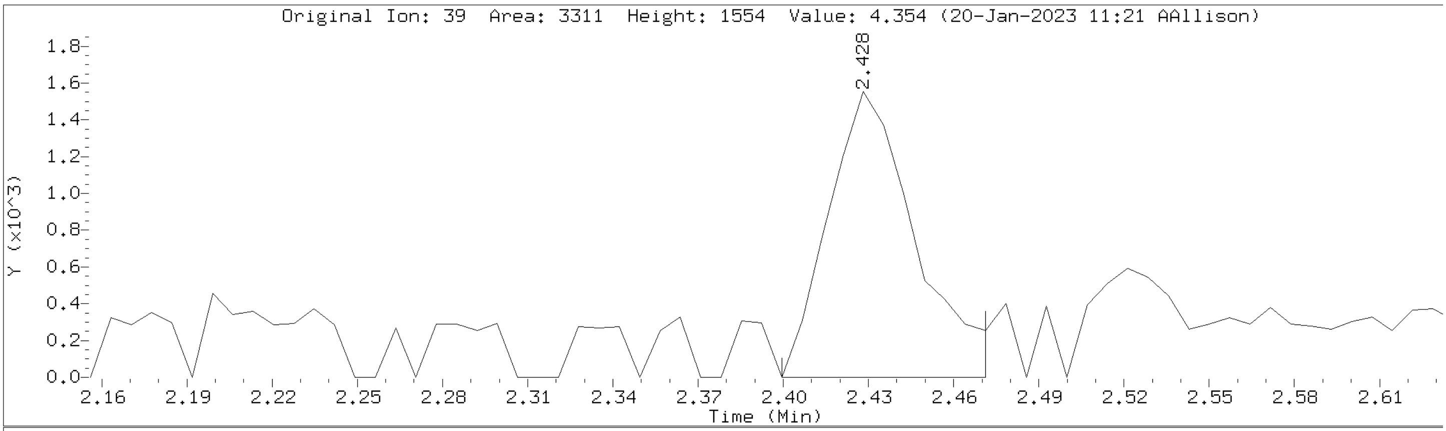
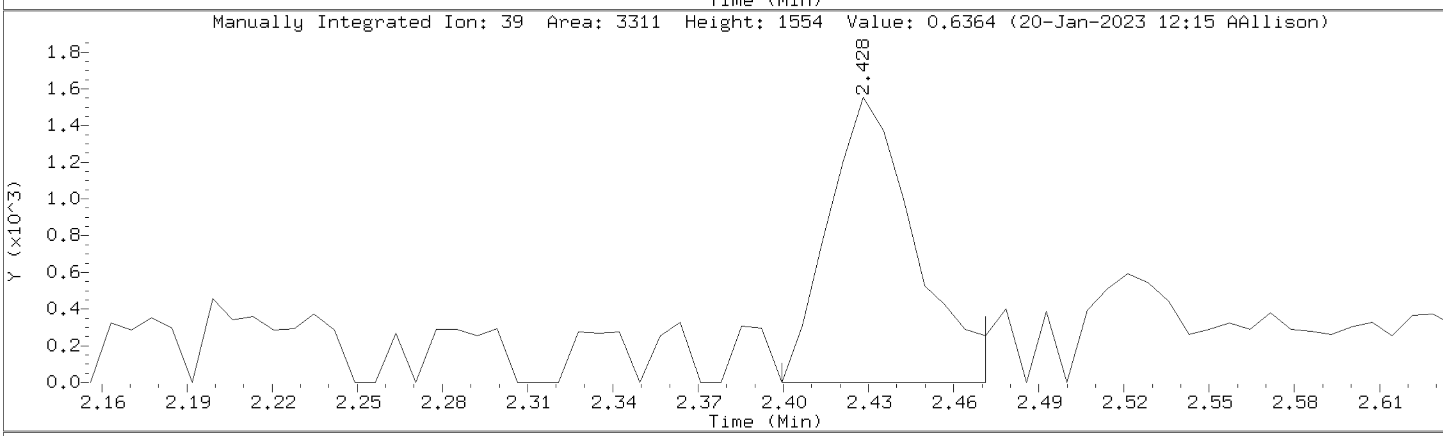
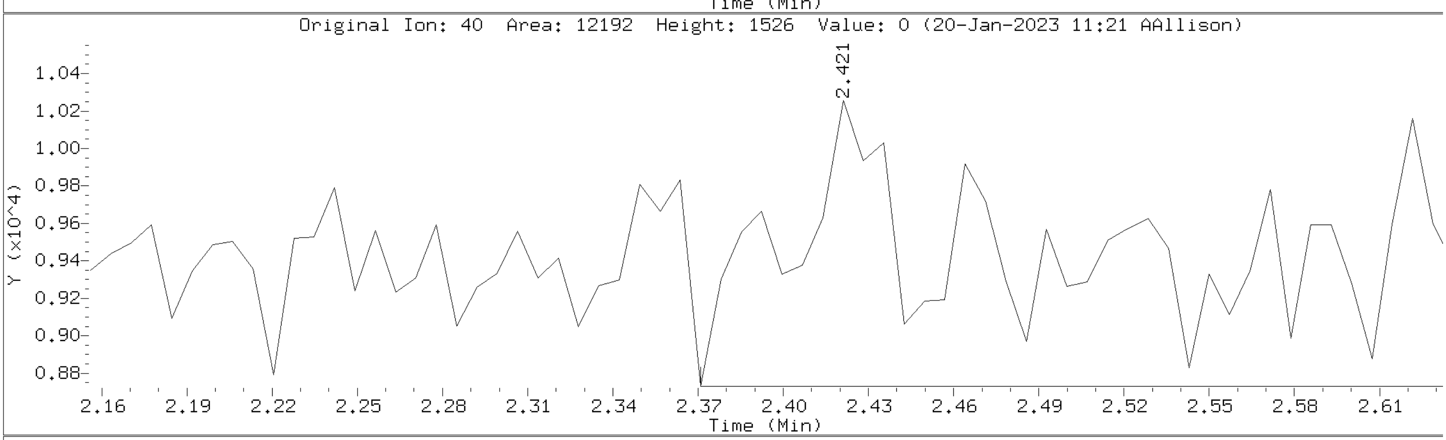
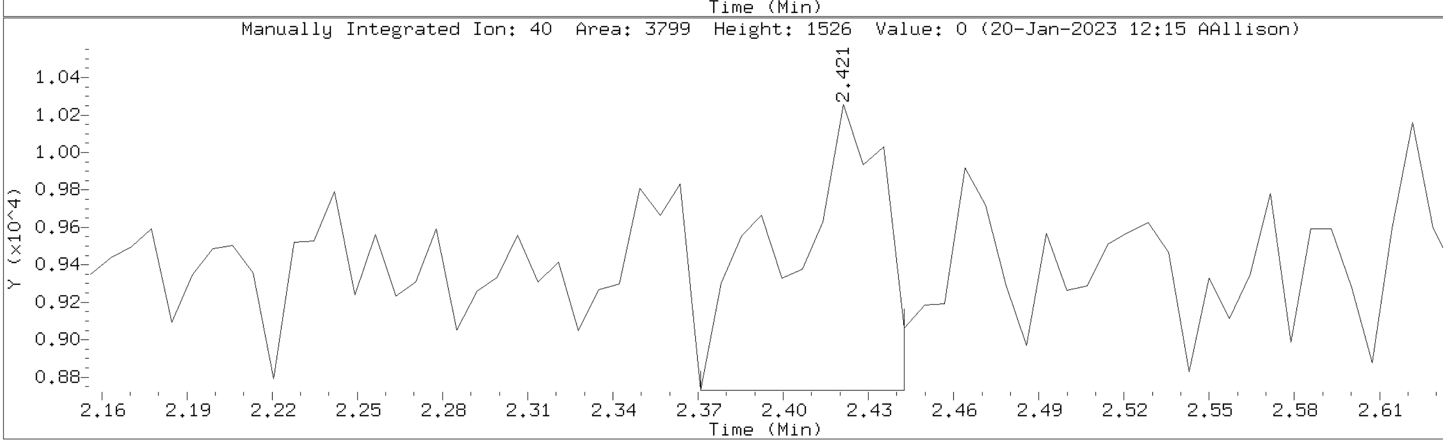
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8









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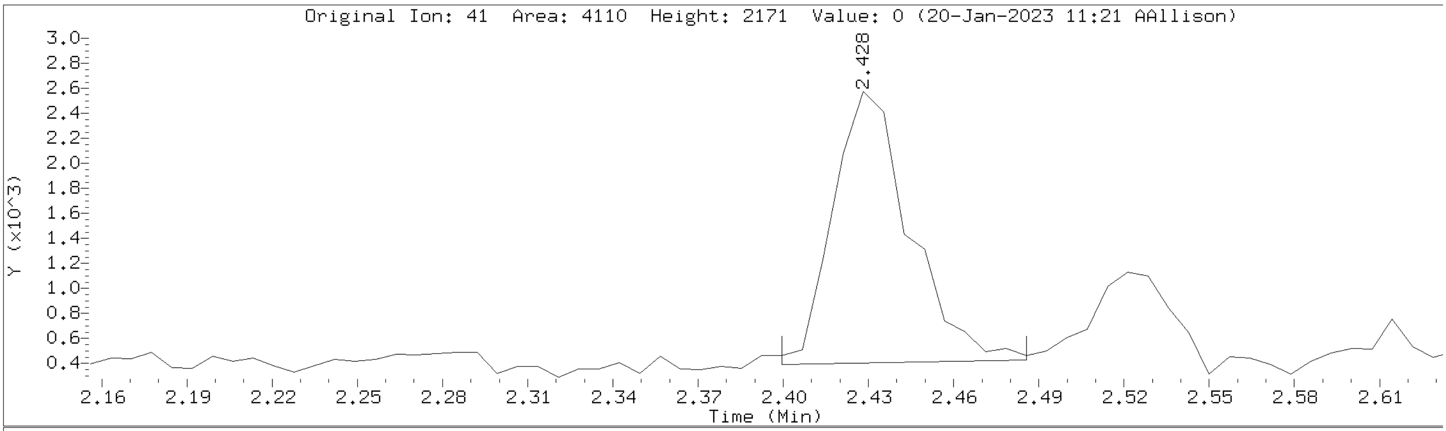
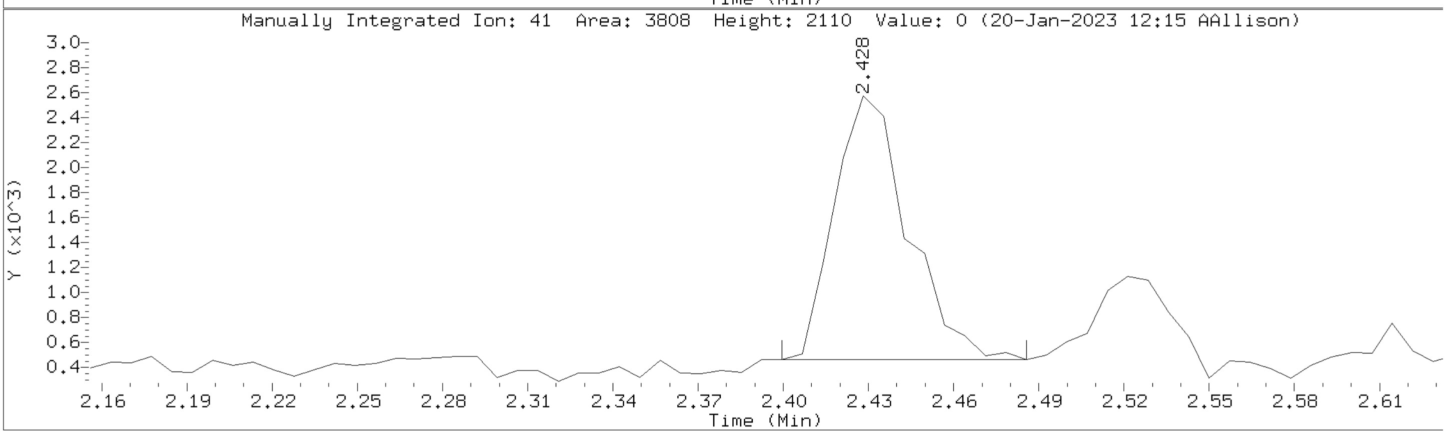
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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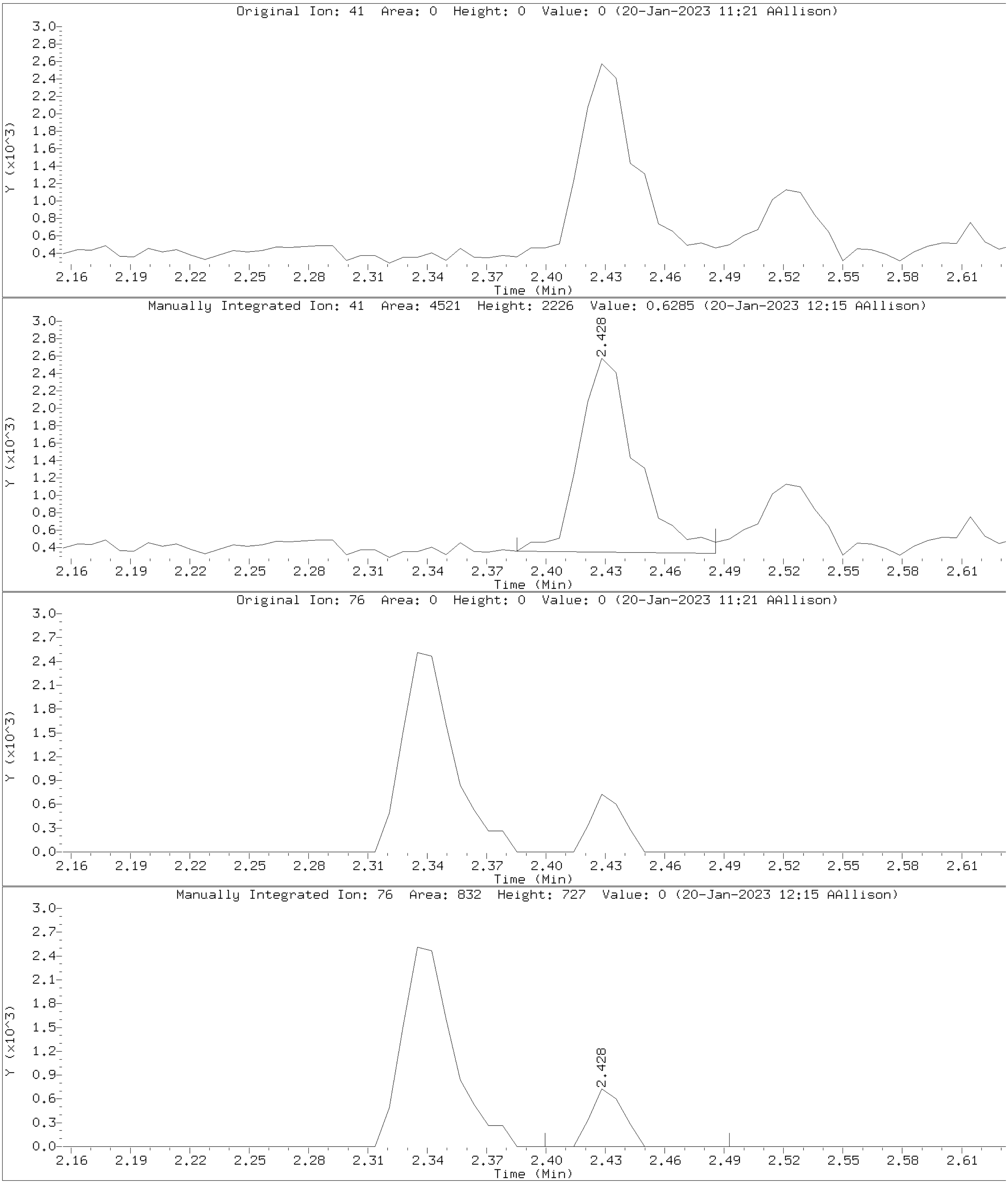
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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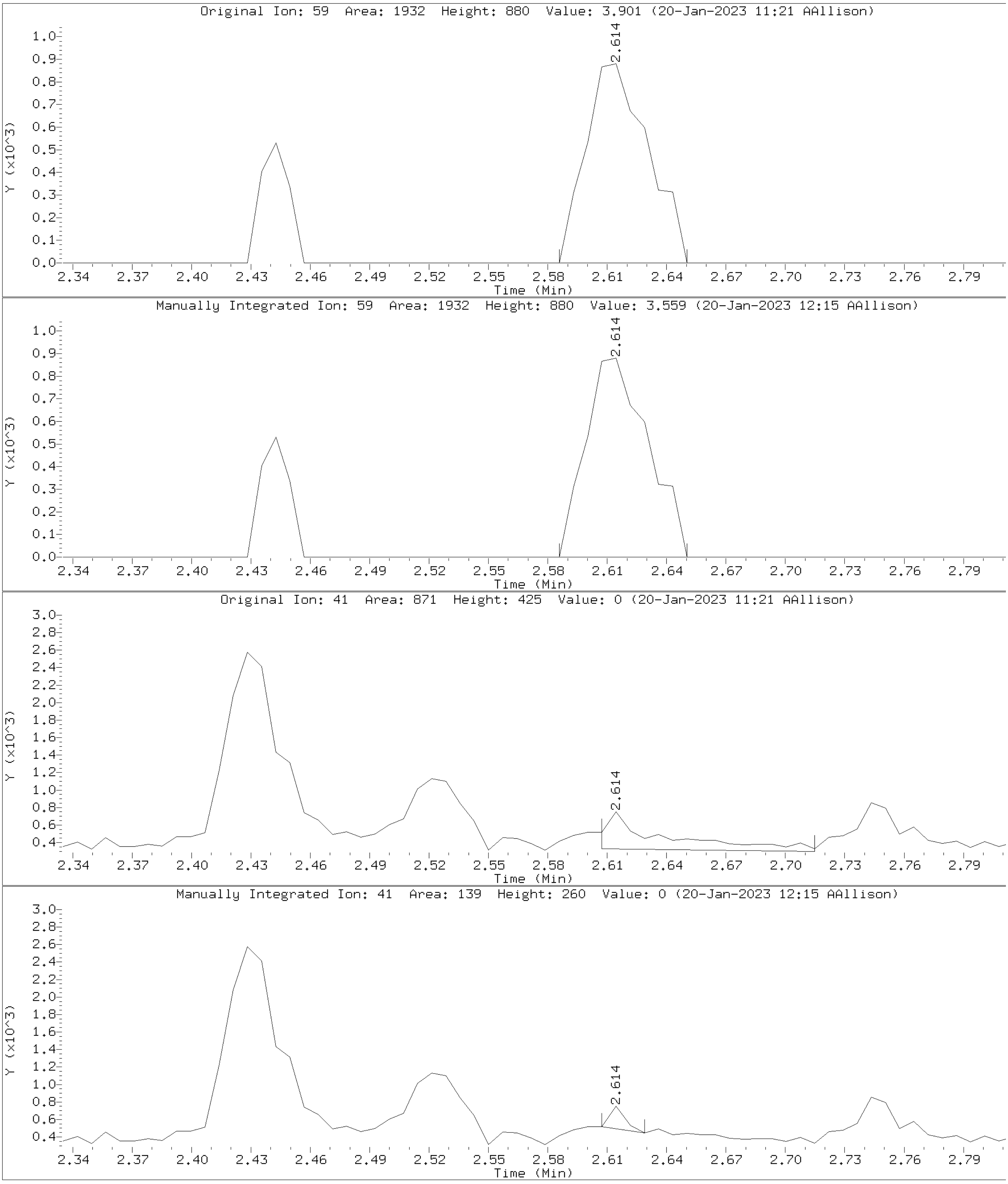
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: tert-Butyl Alcohol   Review Code: GT
CAS Number: 75-65-0



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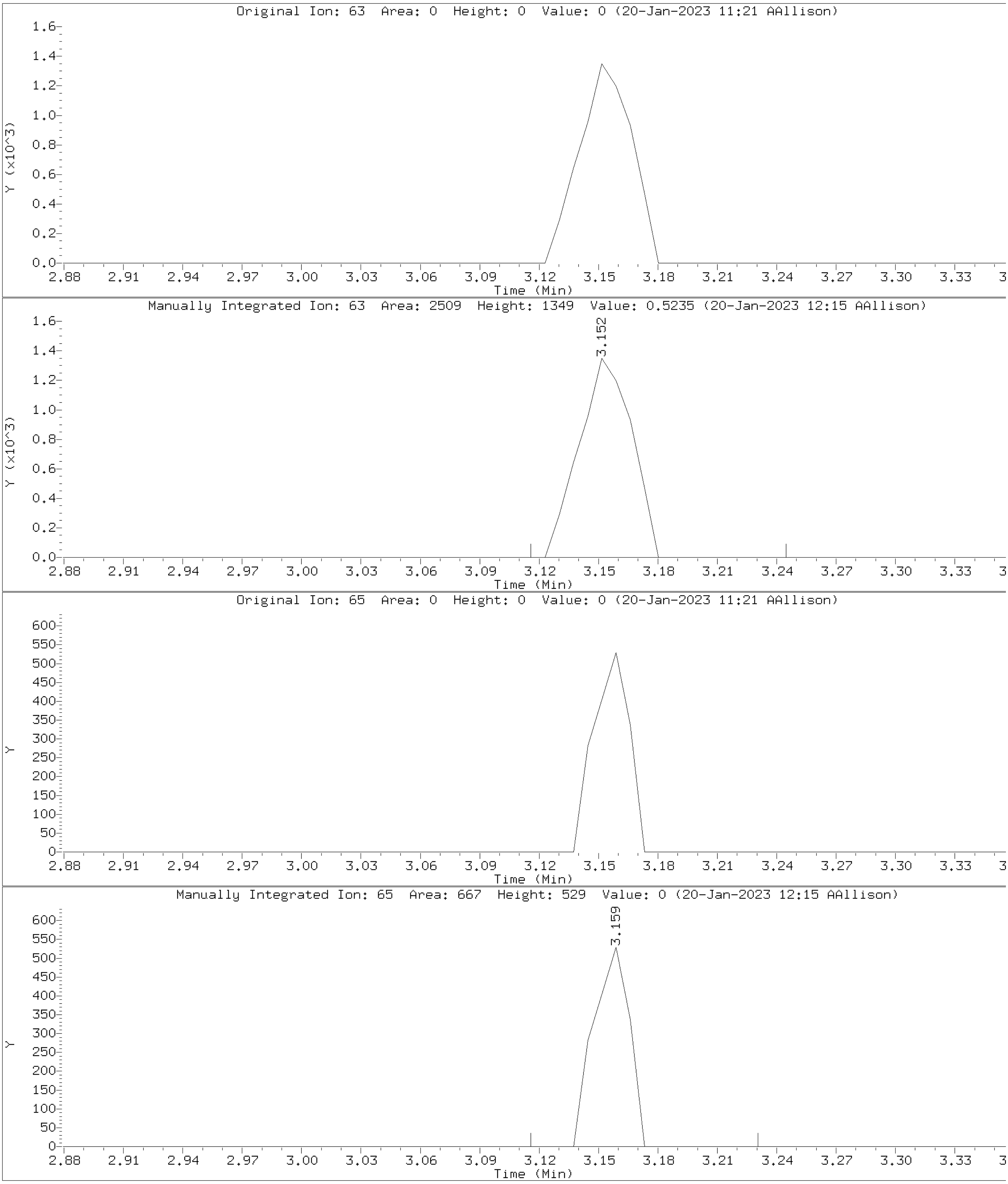
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloroethane   Review Code: NI
CAS Number: 75-34-3



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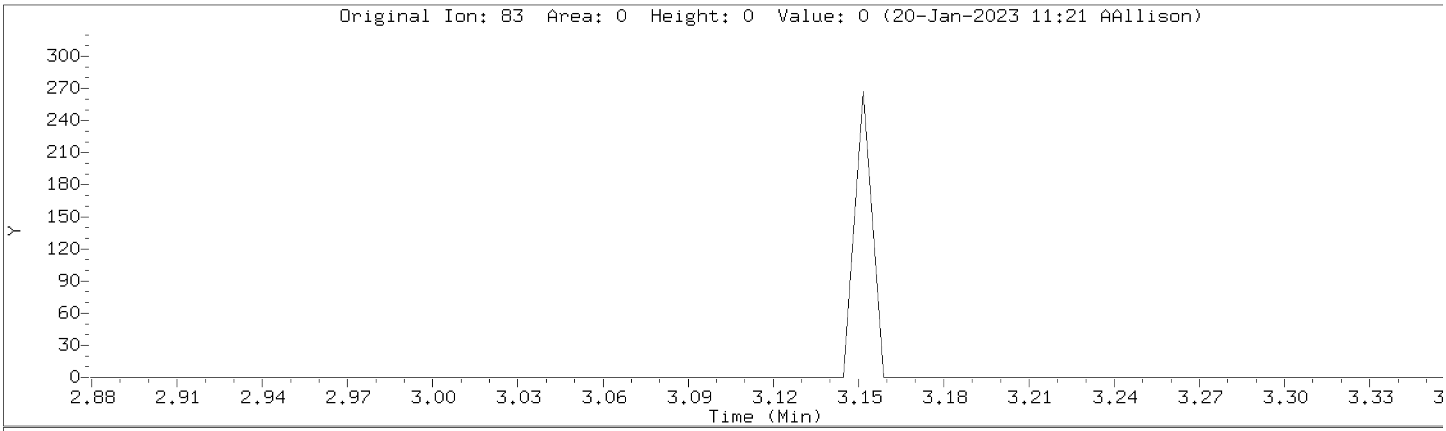
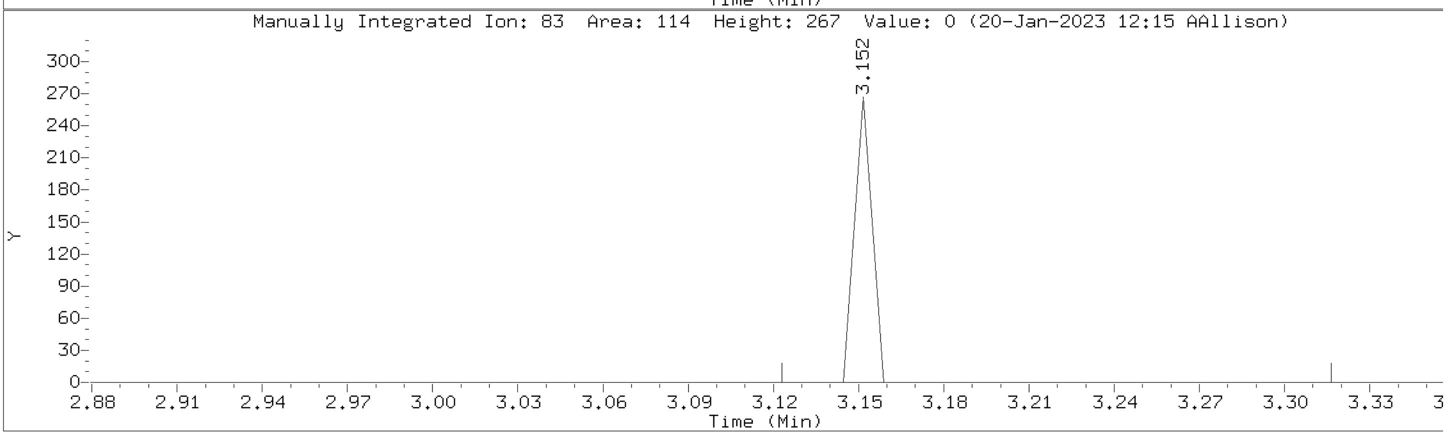
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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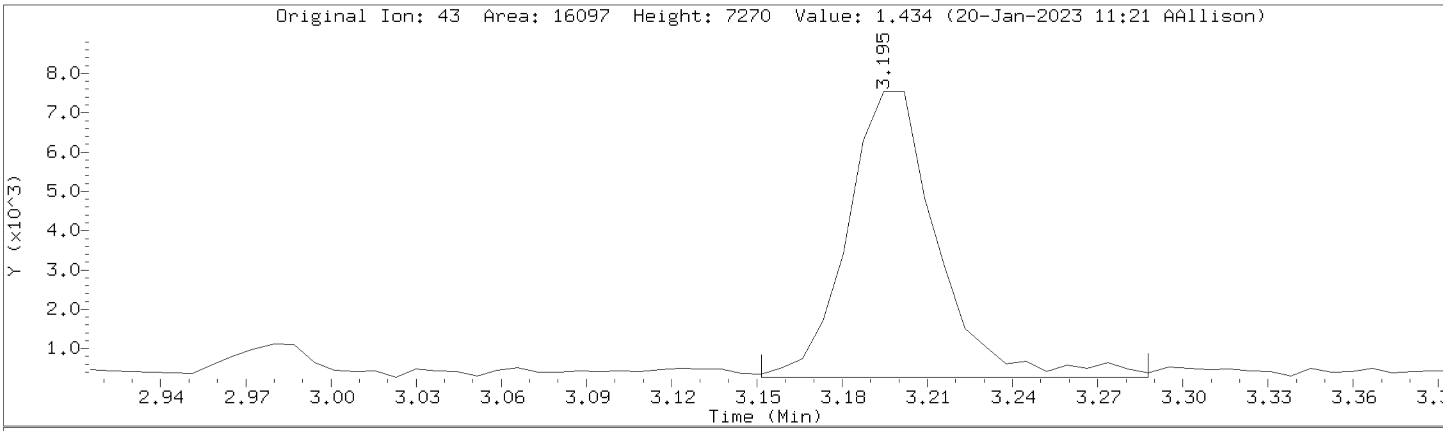
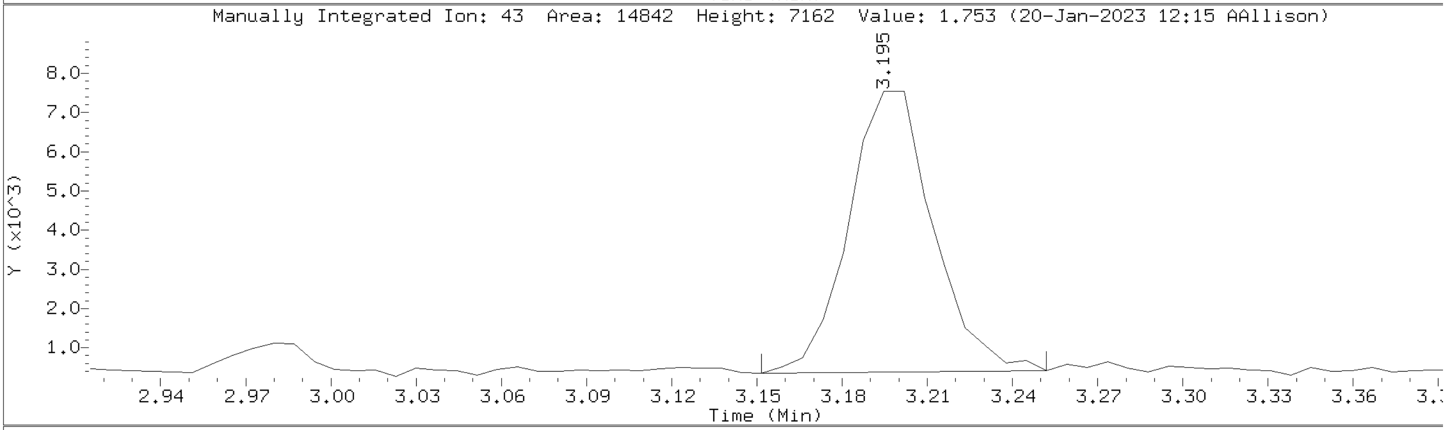
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Acetate   Review Code: GT
CAS Number: 108-05-4

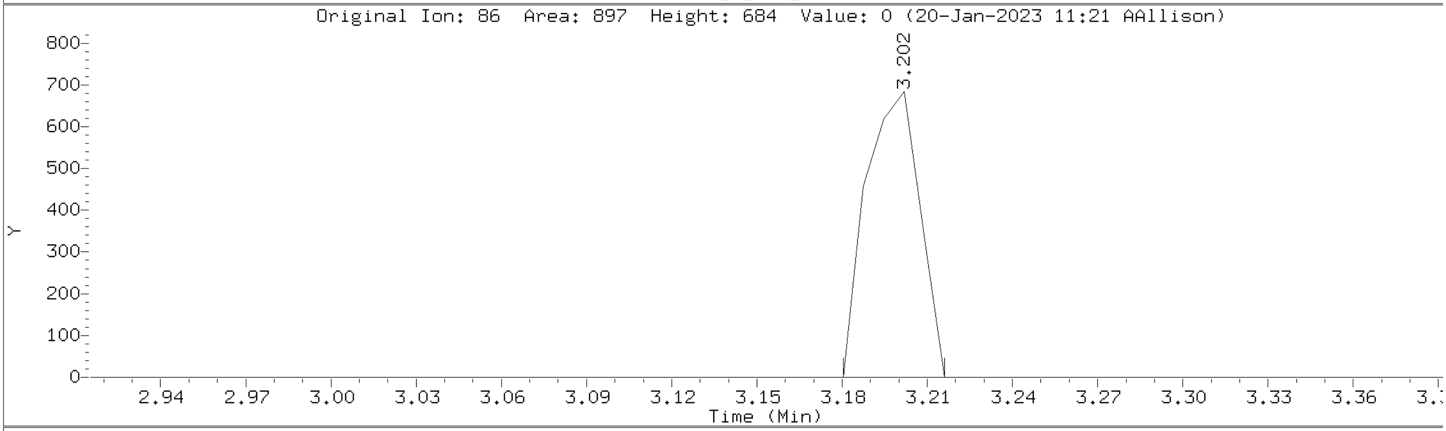
Original Ion: 43 Area: 16097 Height: 7270 Value: 1.434 (20-Jan-2023 11:21 AAllison)



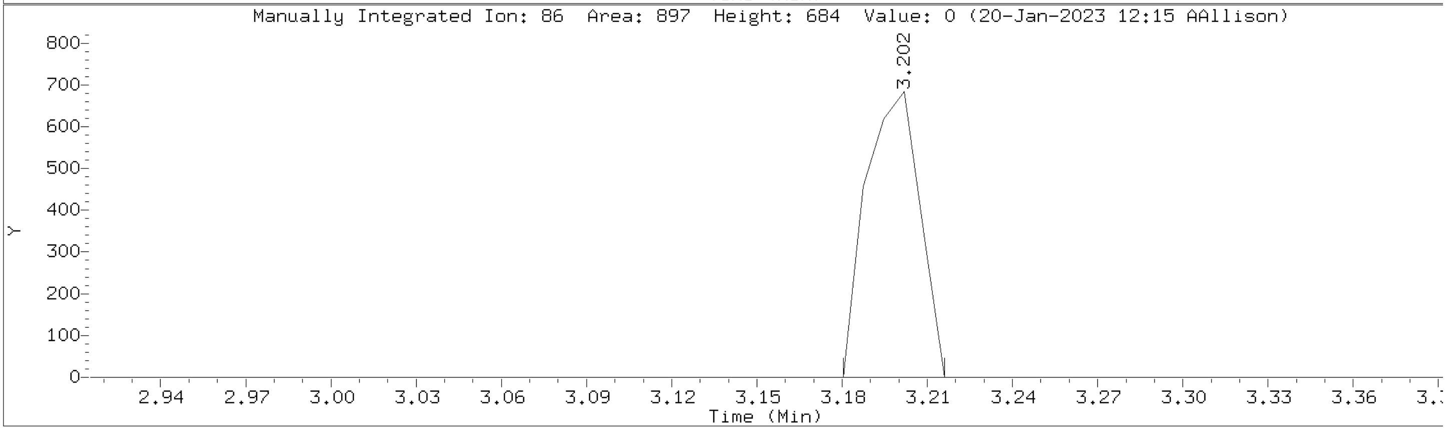
Manually Integrated Ion: 43 Area: 14842 Height: 7162 Value: 1.753 (20-Jan-2023 12:15 AAllison)



Original Ion: 86 Area: 897 Height: 684 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 86 Area: 897 Height: 684 Value: 0 (20-Jan-2023 12:15 AAllison)



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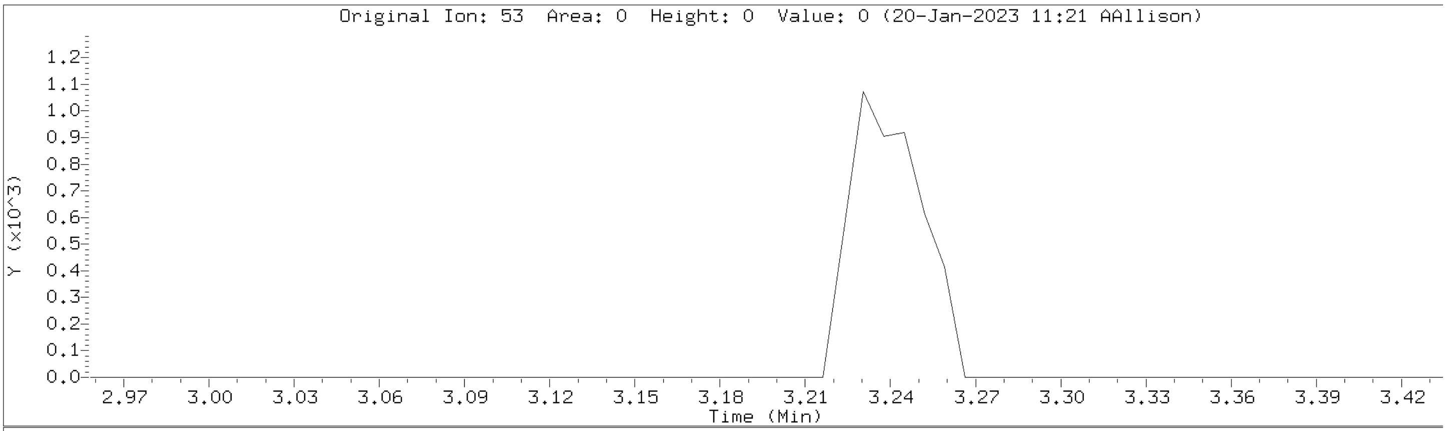
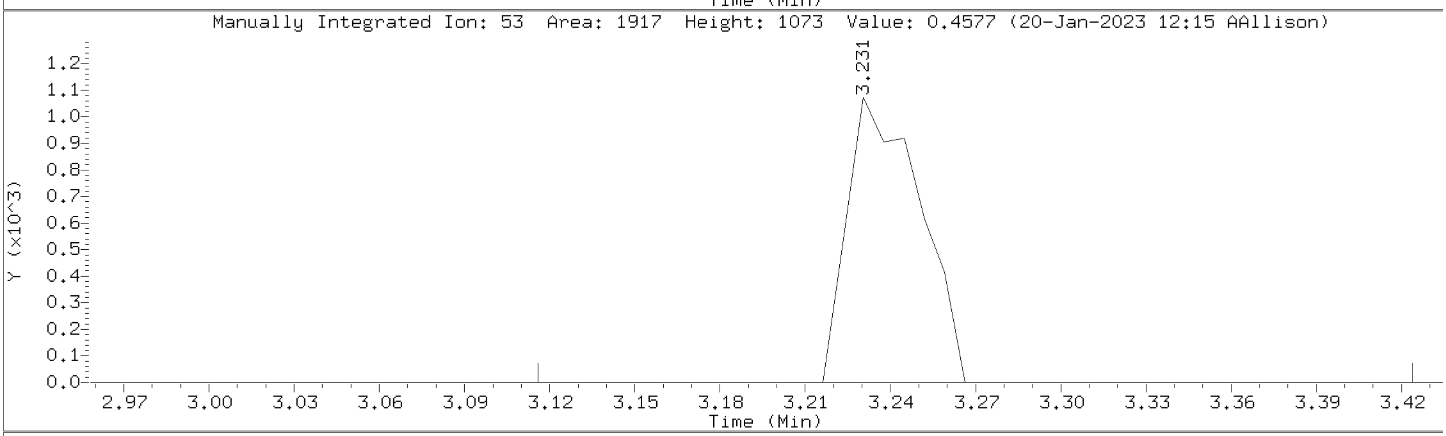
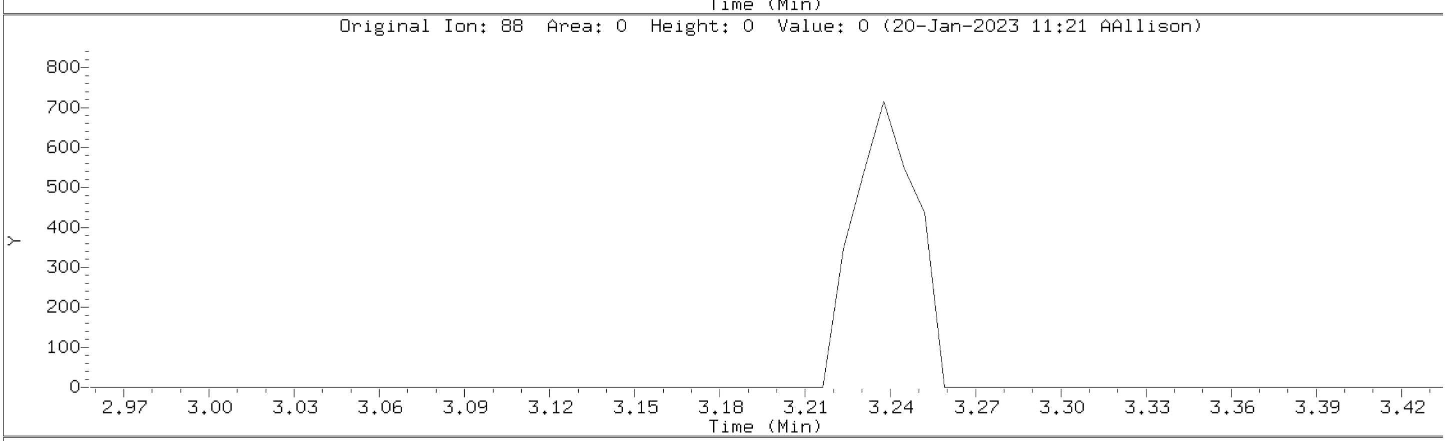
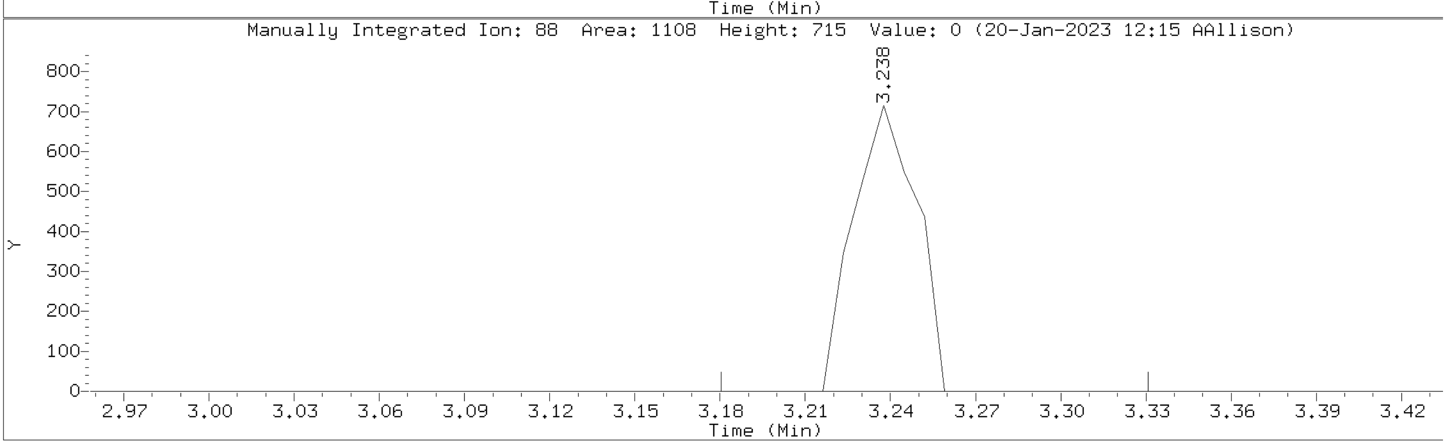
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: chloroprene   Review Code: NI
CAS Number: 126-99-8









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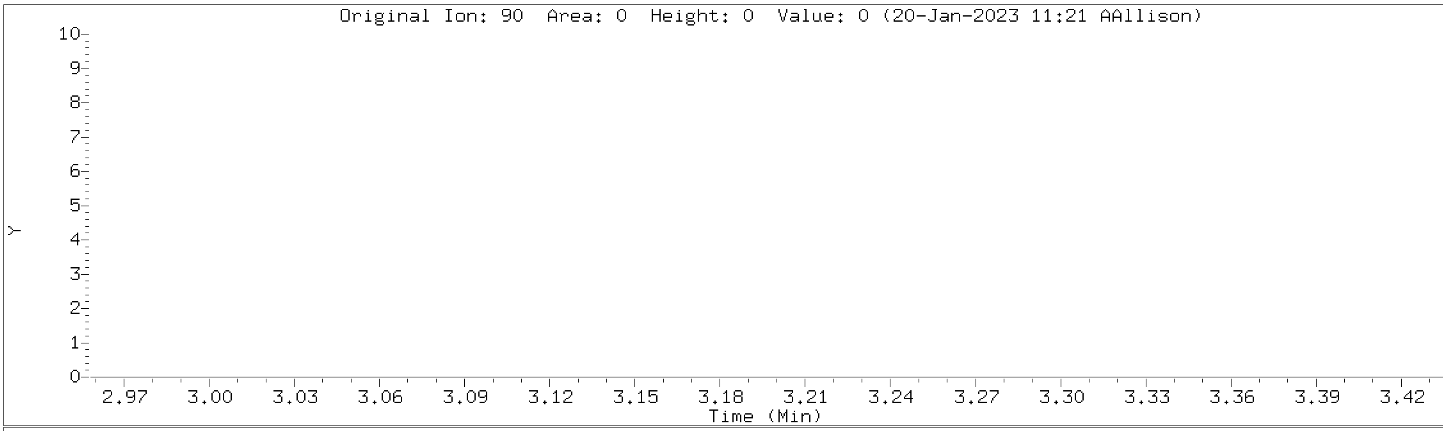
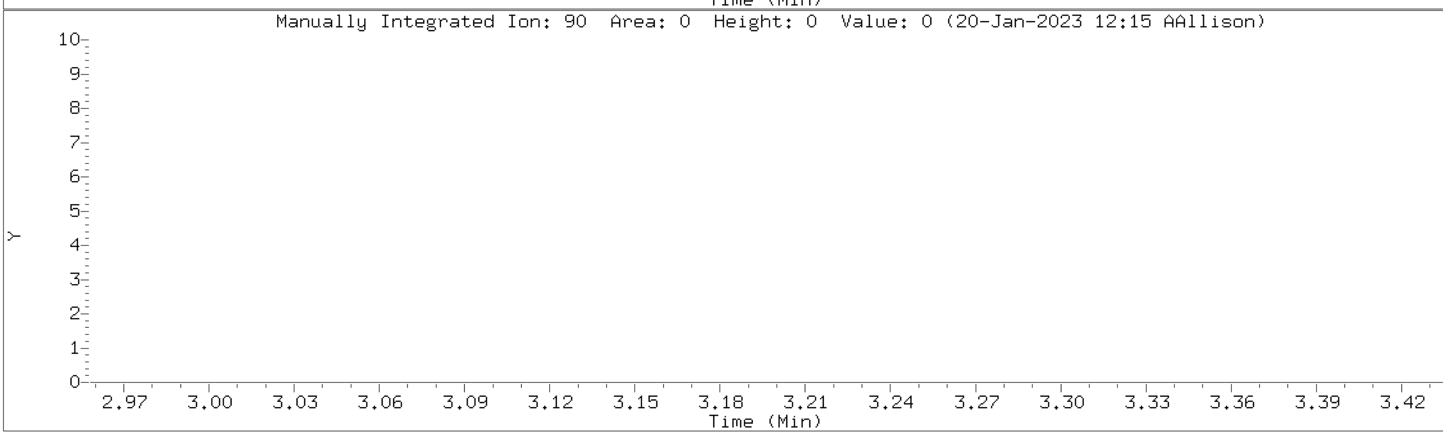
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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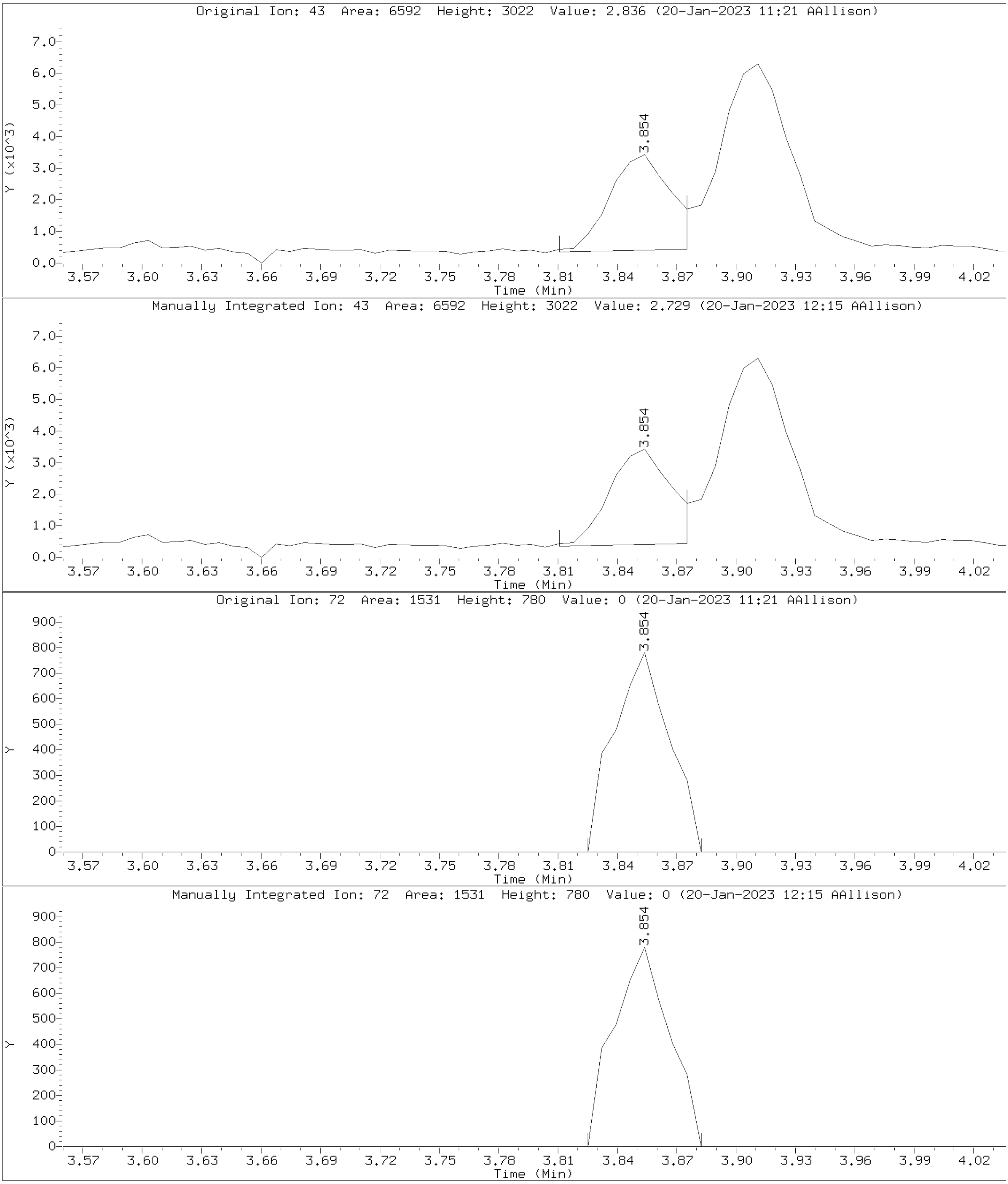
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 2-Butanone   Review Code:
CAS Number: 78-93-3



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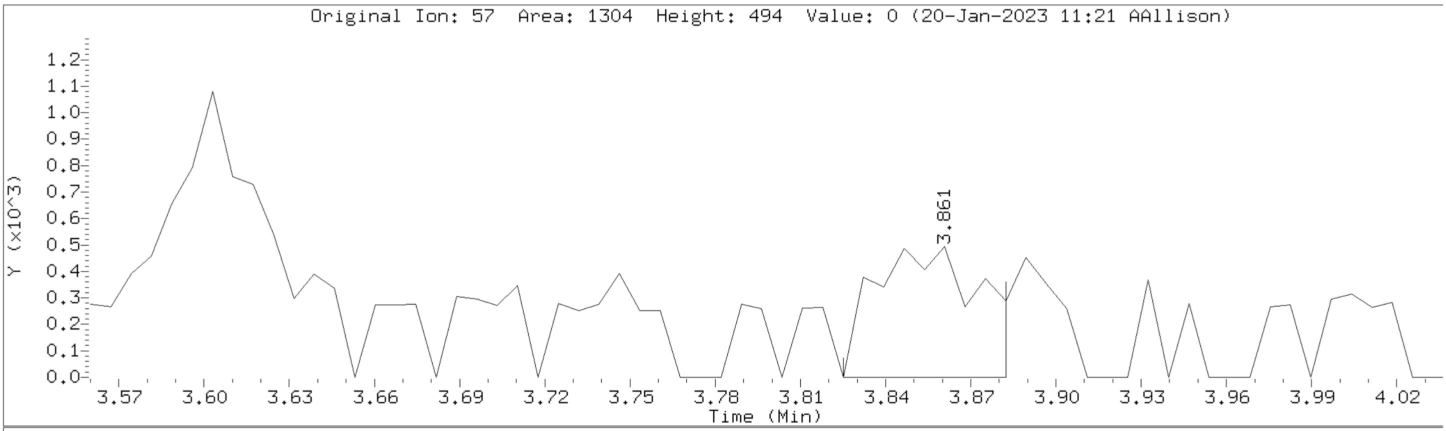
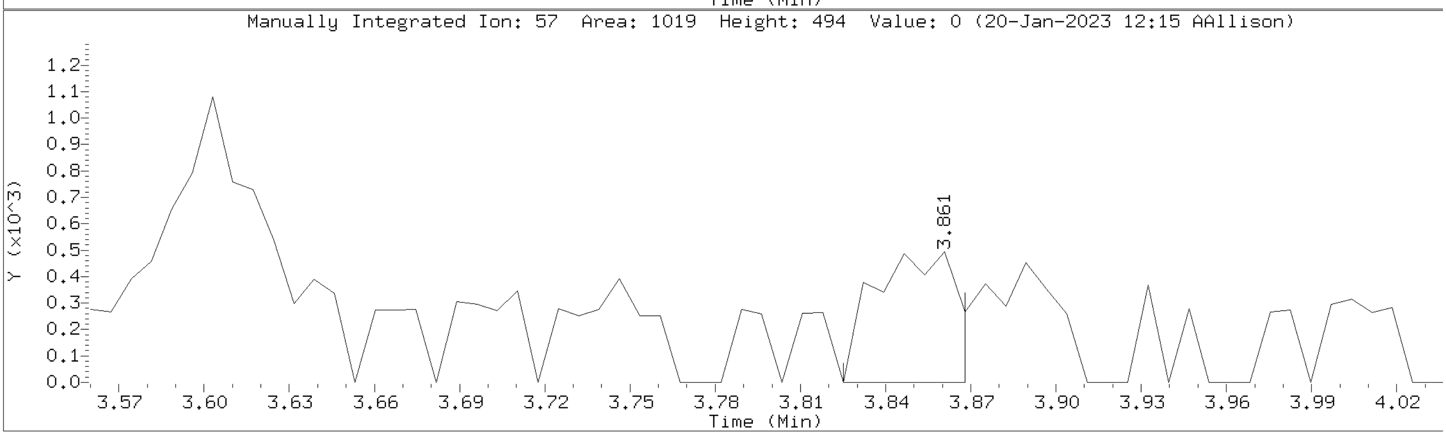
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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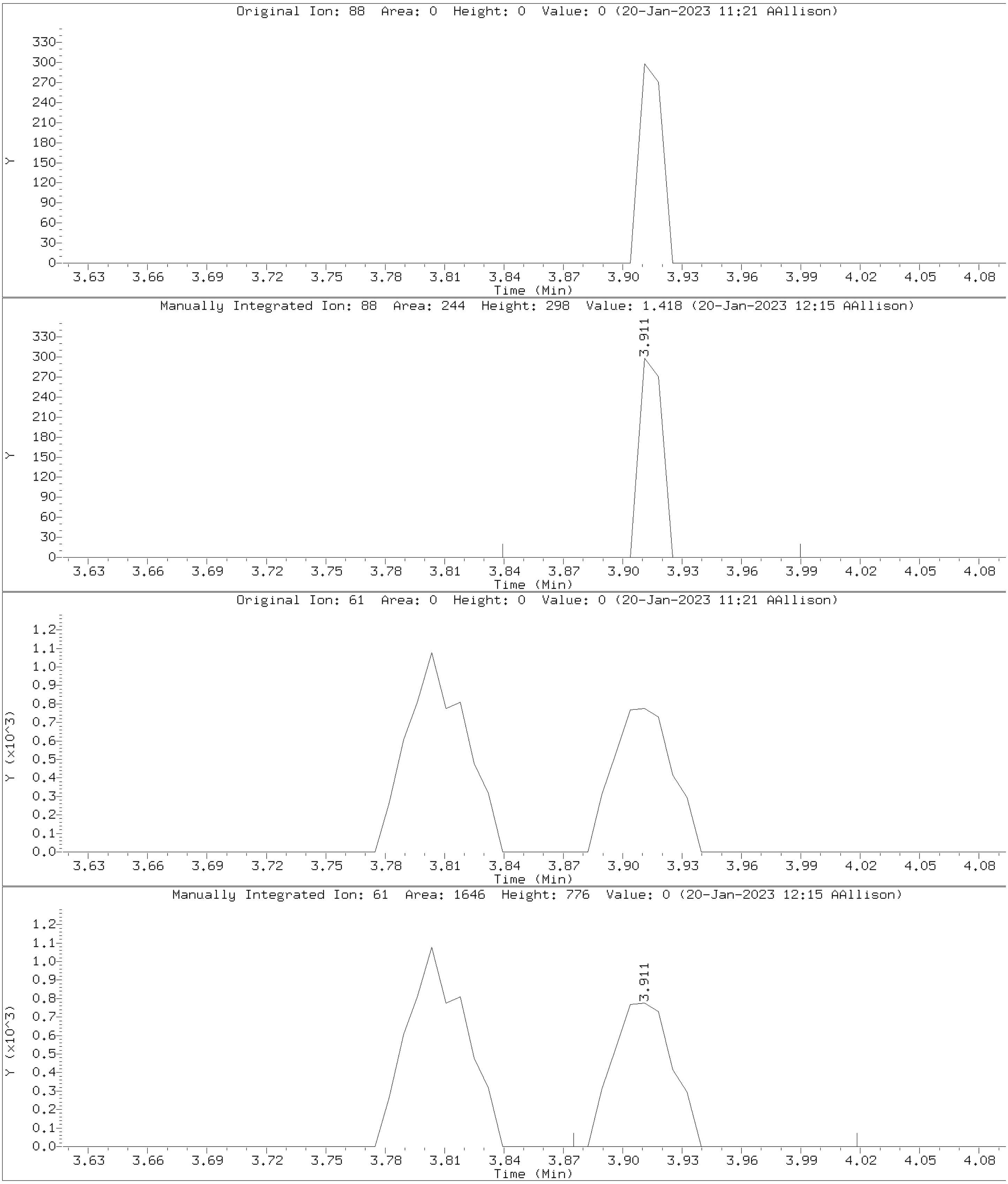
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Ethyl Acetate   Review Code: NI
CAS Number: 141-78-6



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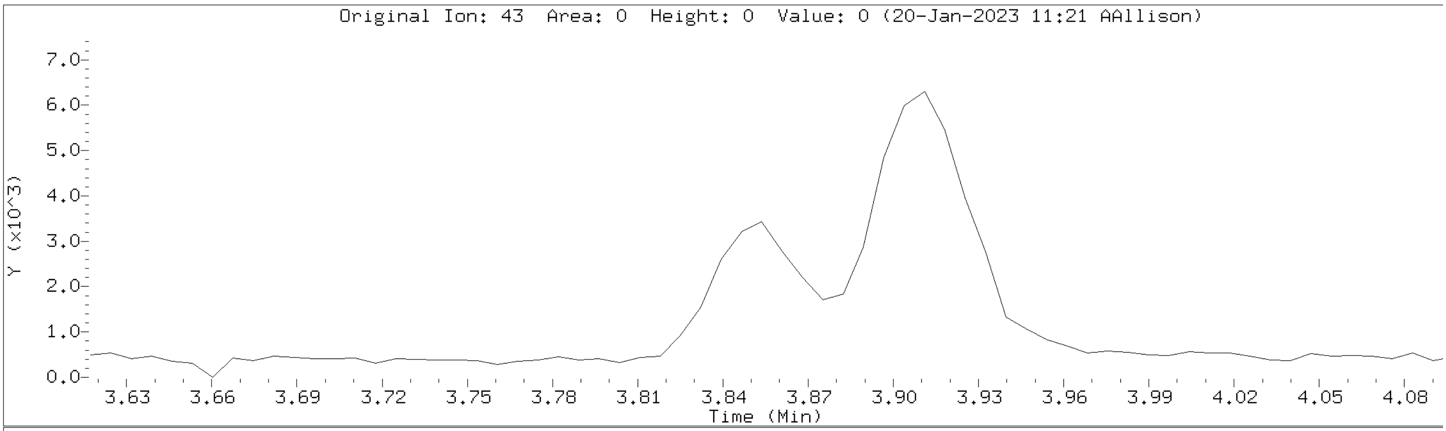
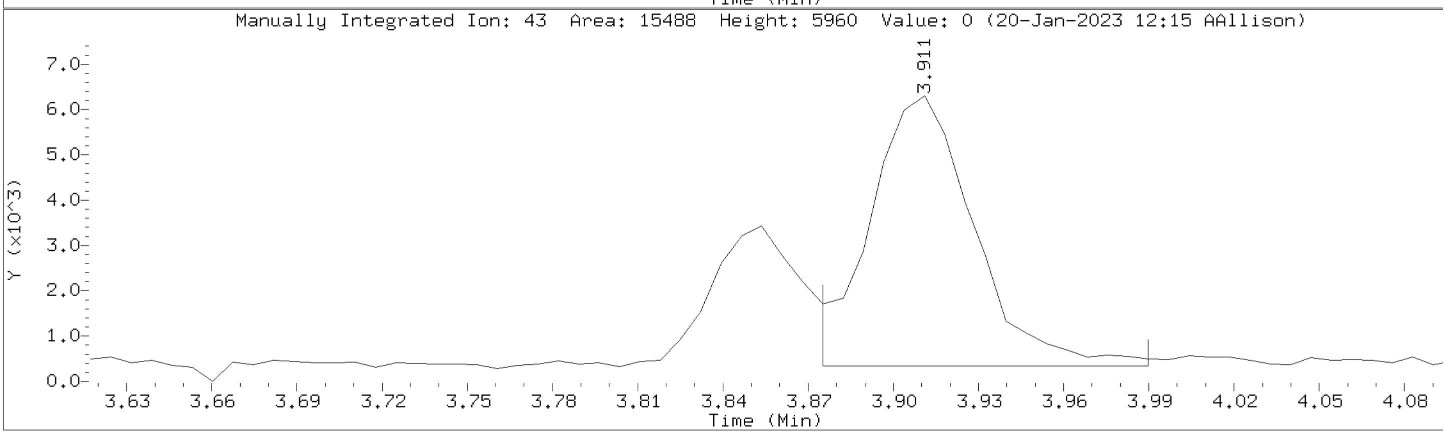
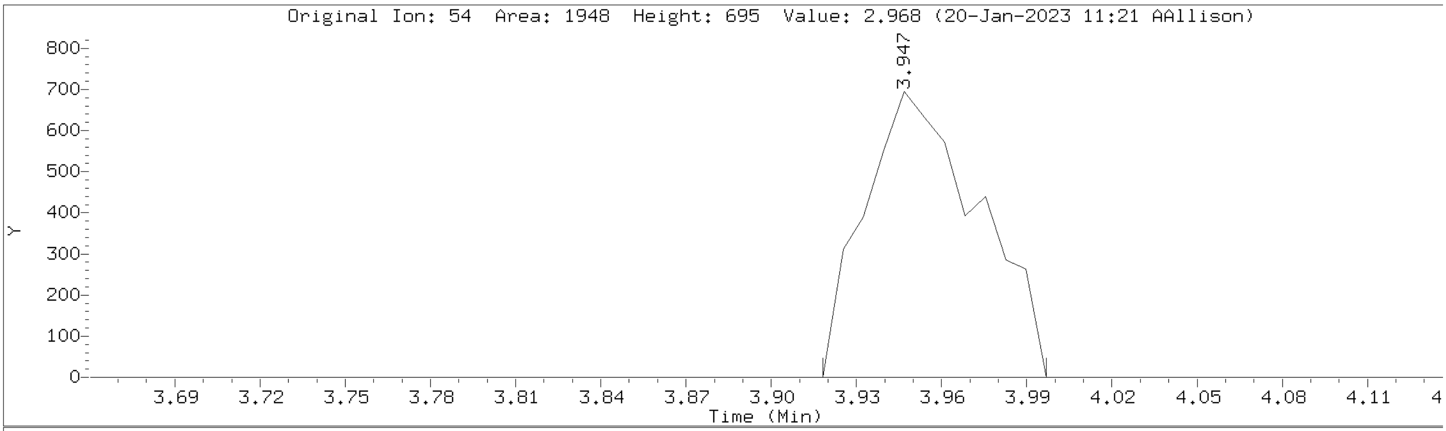
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

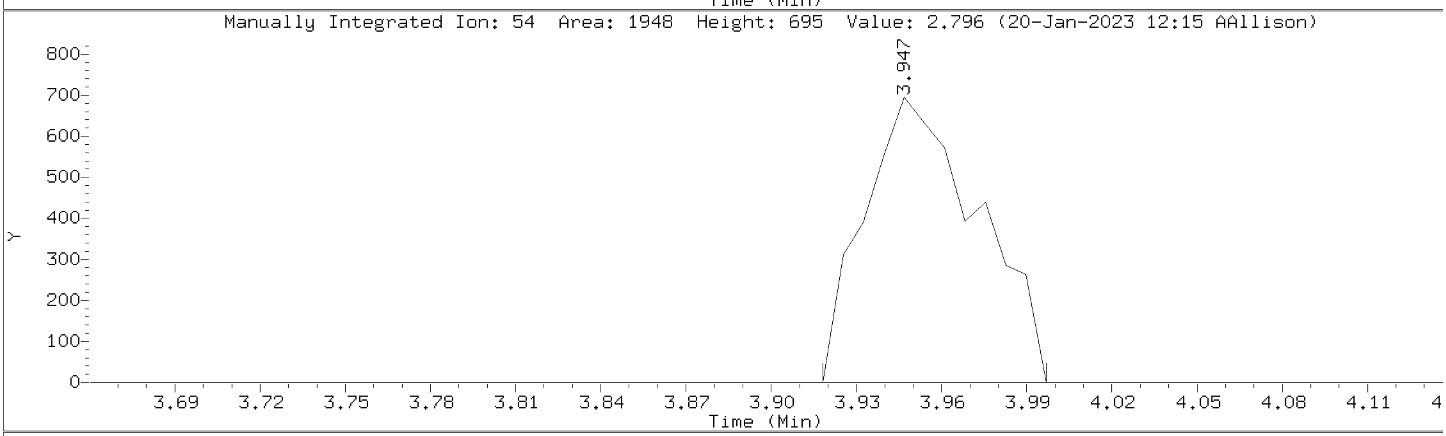


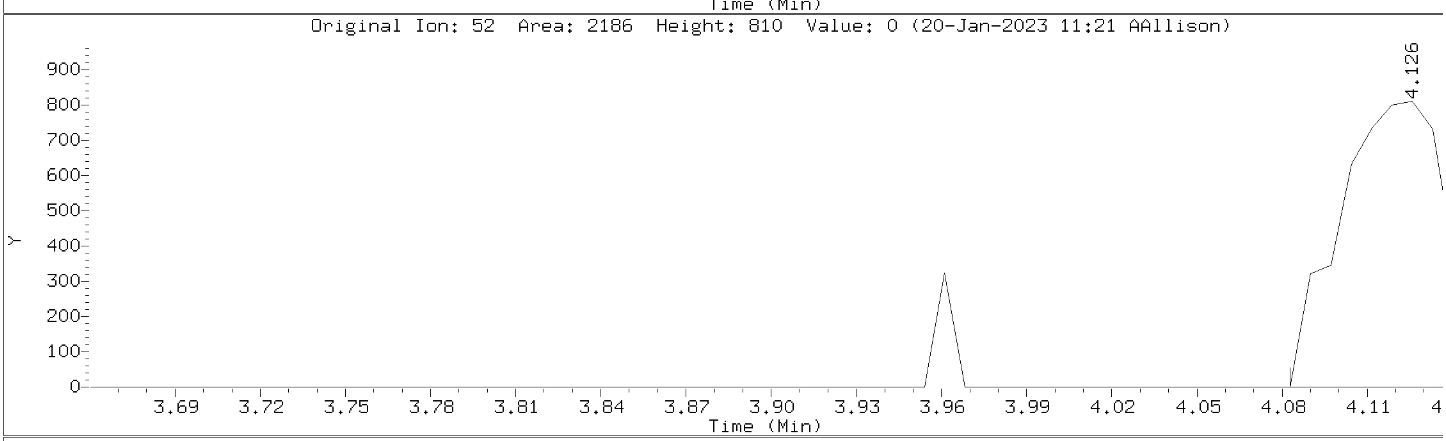


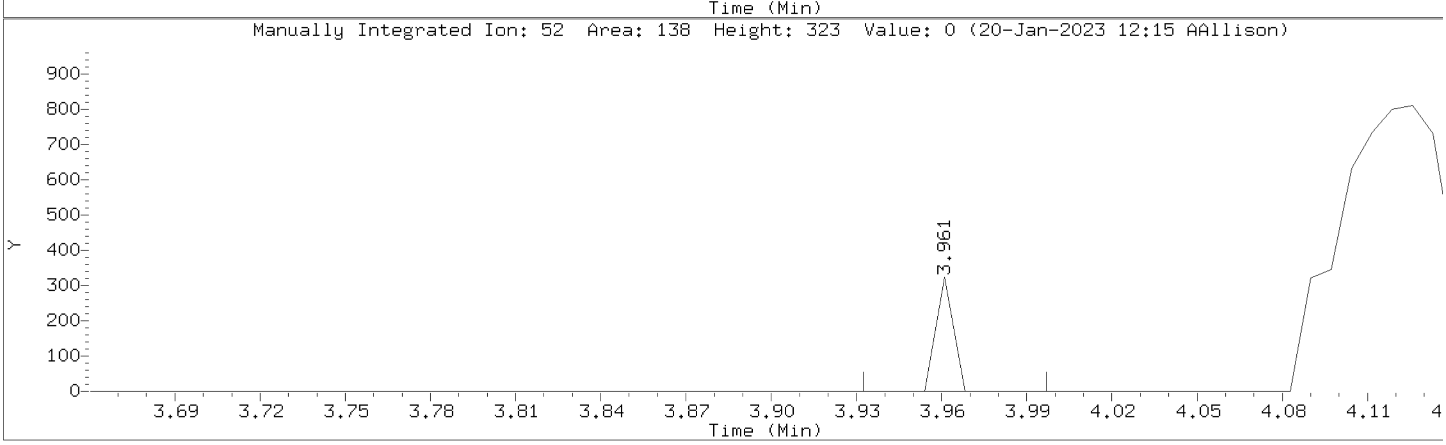
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0









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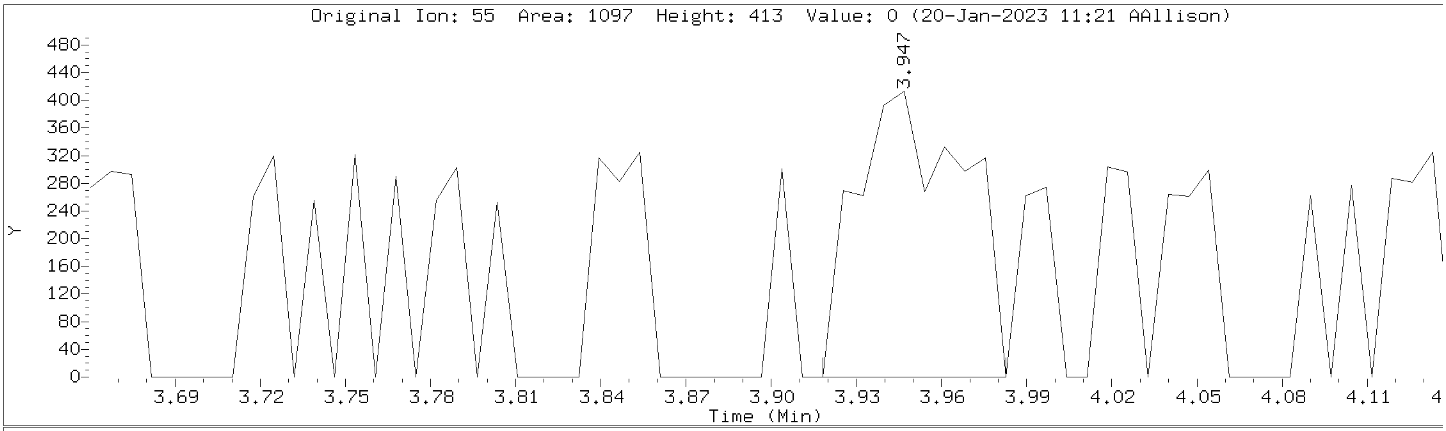
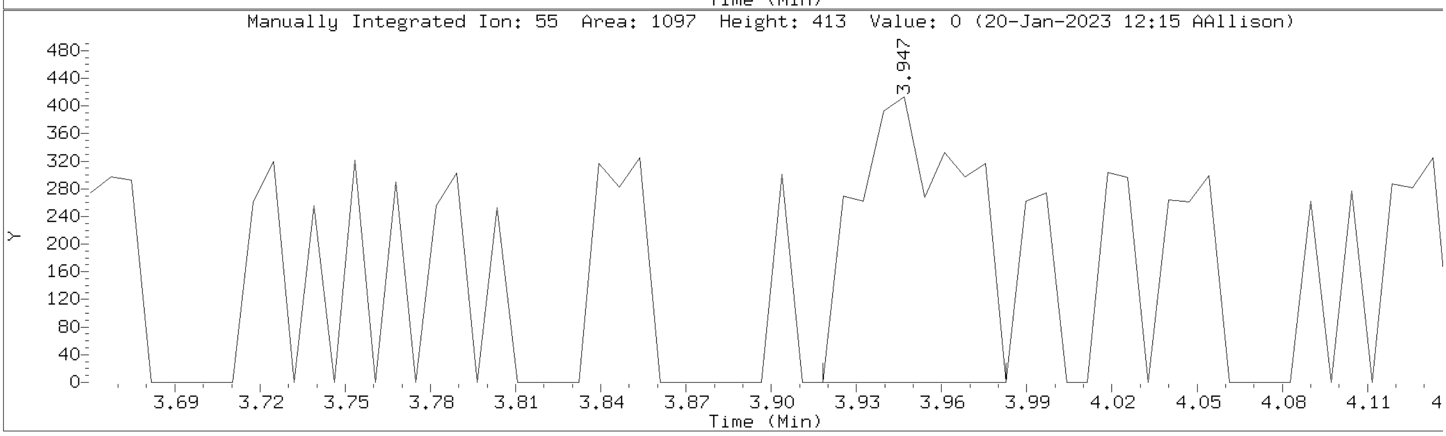
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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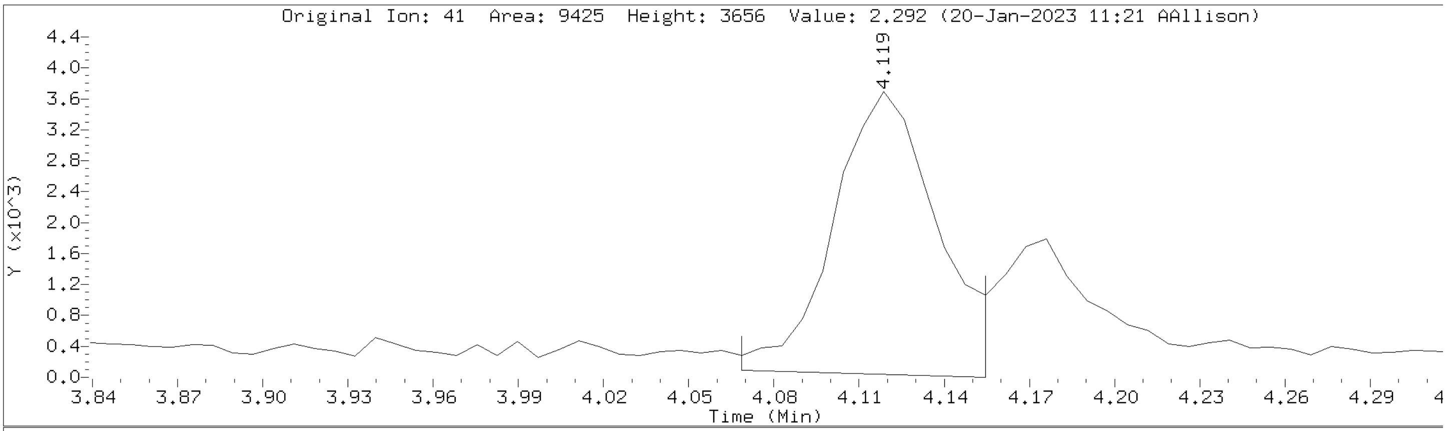
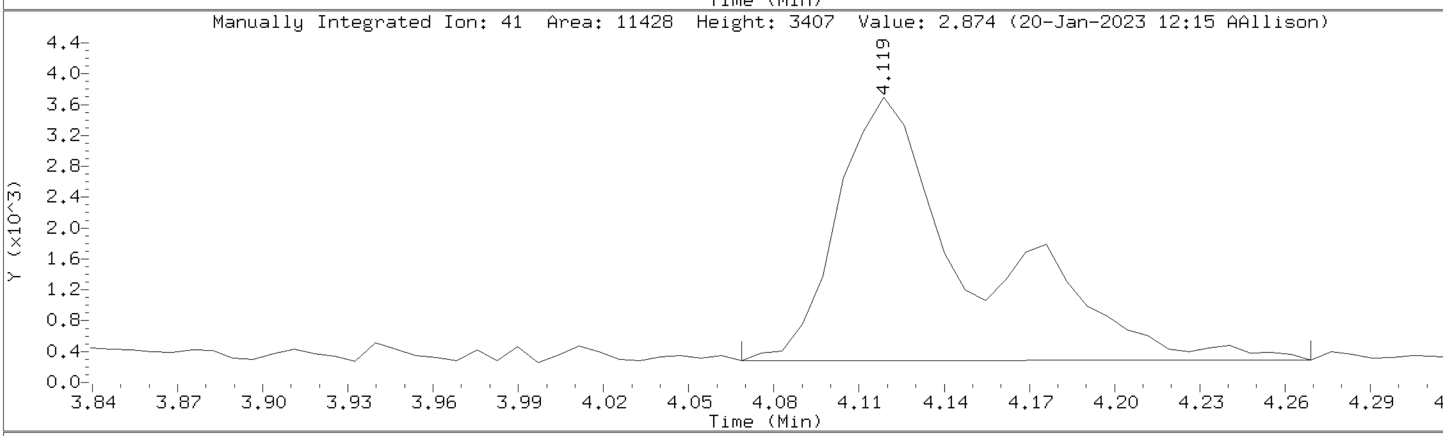
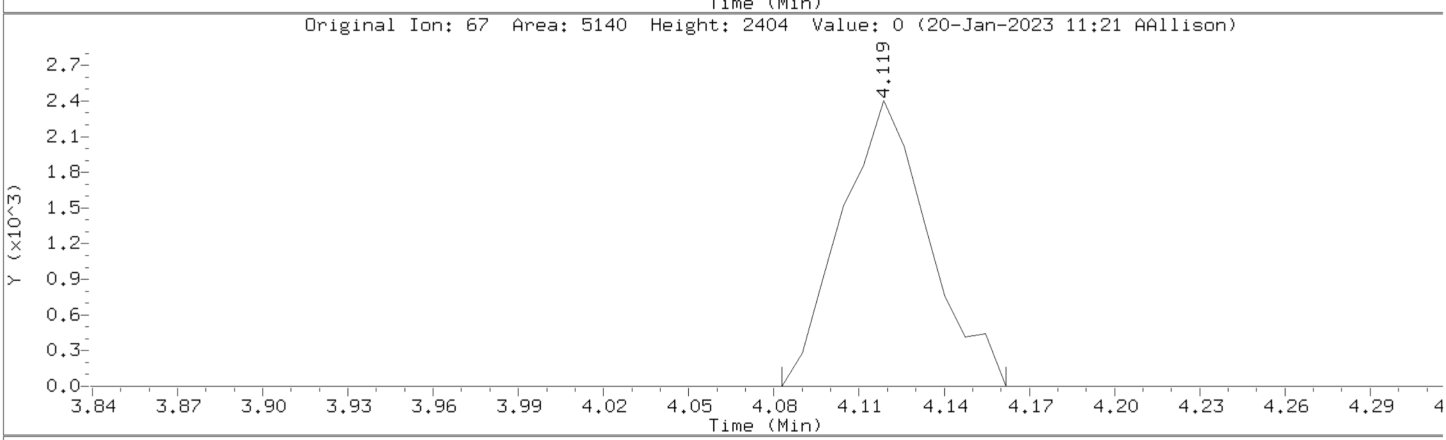
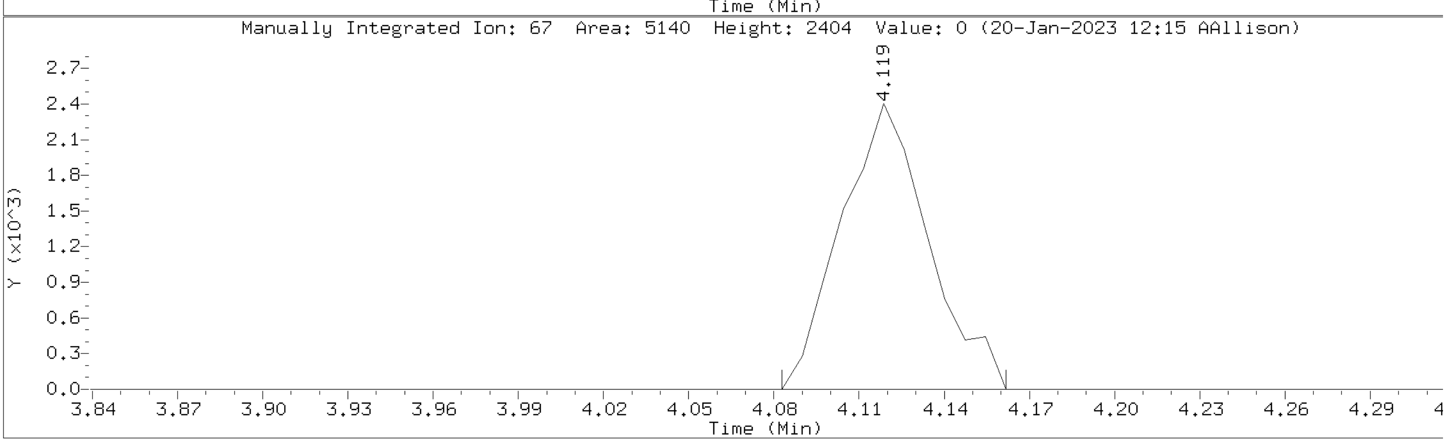
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Methacrylonitrile   Review Code: LT
CAS Number: 126-98-7









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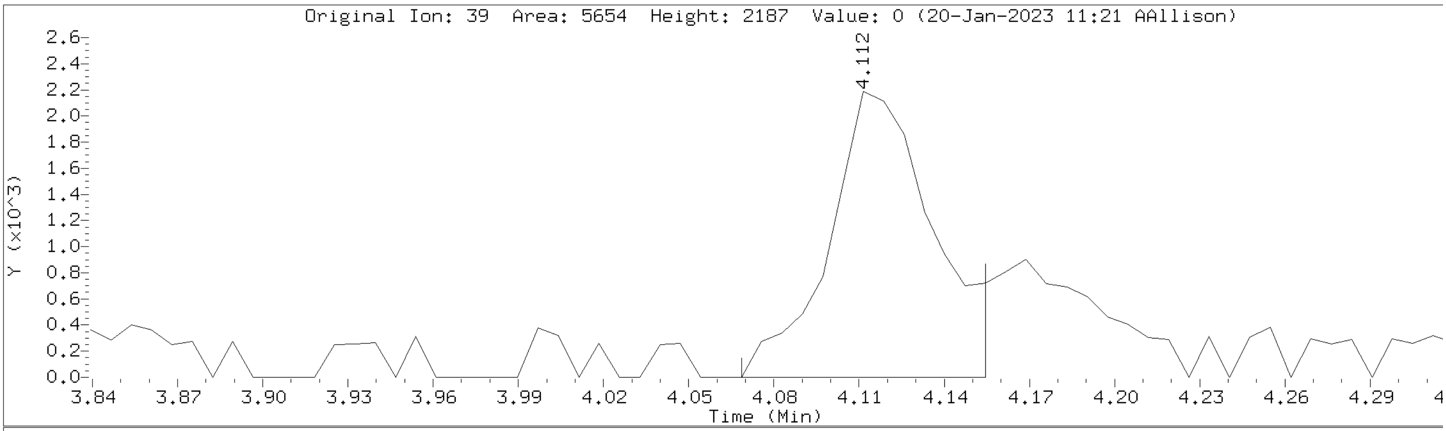
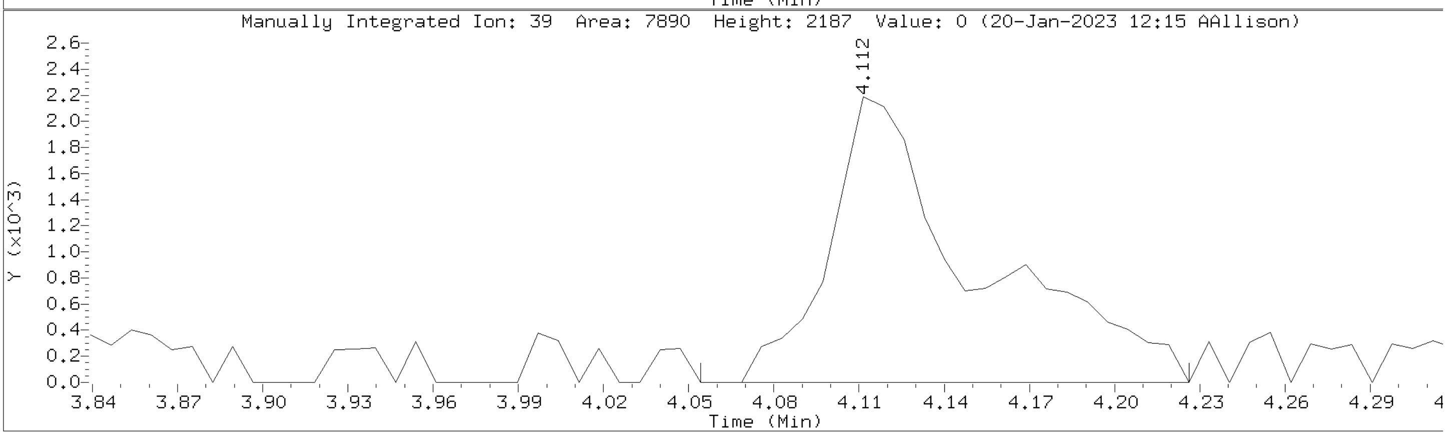
Lab Sample ID: 8260-CAL1





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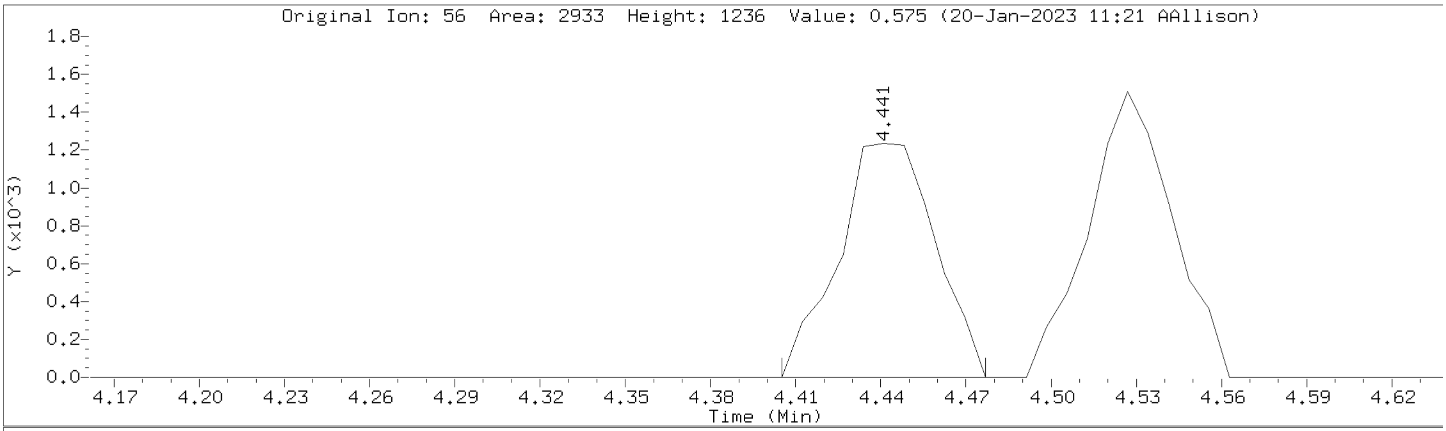
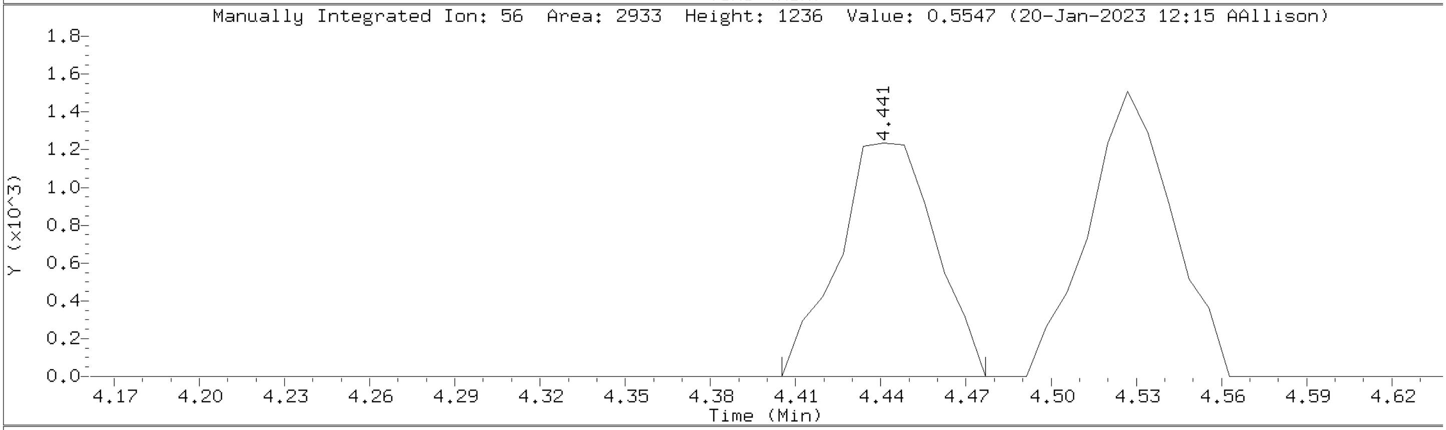
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Cyclohexane   Review Code: GT
CAS Number: 110-82-7

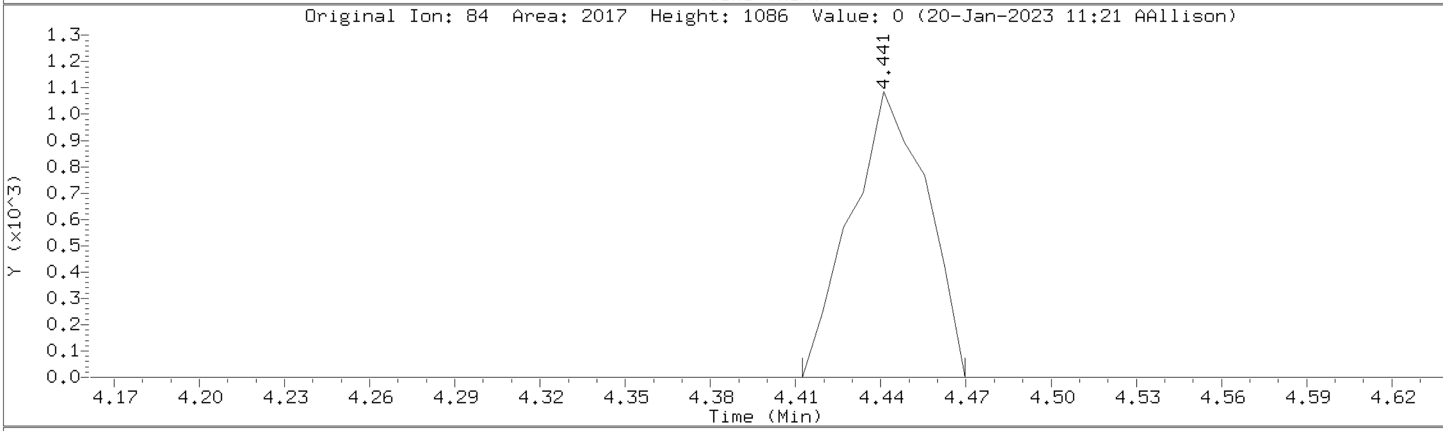
Original Ion: 56 Area: 2933 Height: 1236 Value: 0.575 (20-Jan-2023 11:21 AAllison)



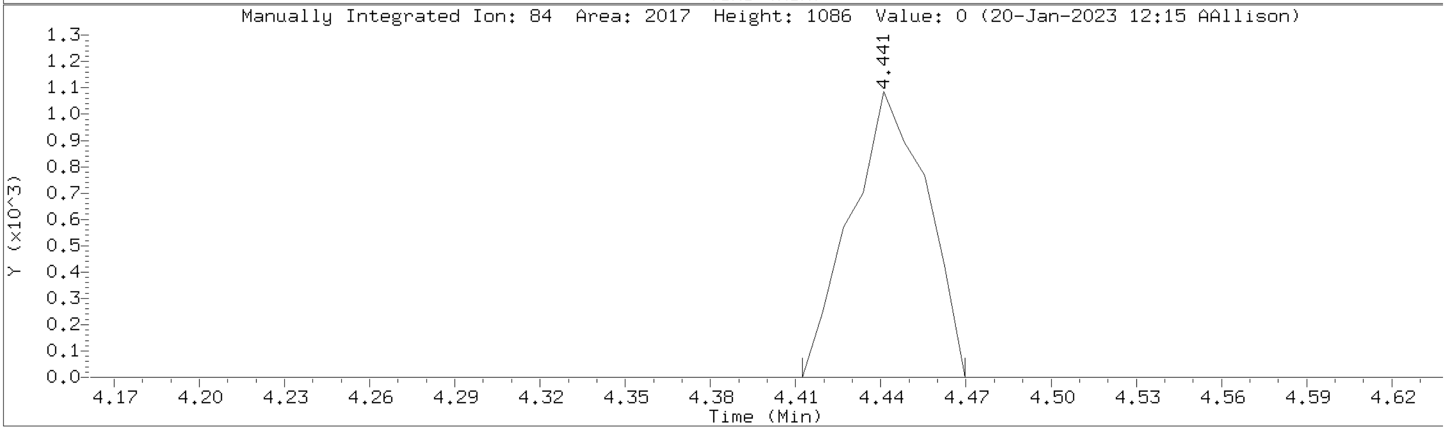
Manually Integrated Ion: 56 Area: 2933 Height: 1236 Value: 0.5547 (20-Jan-2023 12:15 AAllison)



Original Ion: 84 Area: 2017 Height: 1086 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 84 Area: 2017 Height: 1086 Value: 0 (20-Jan-2023 12:15 AAllison)



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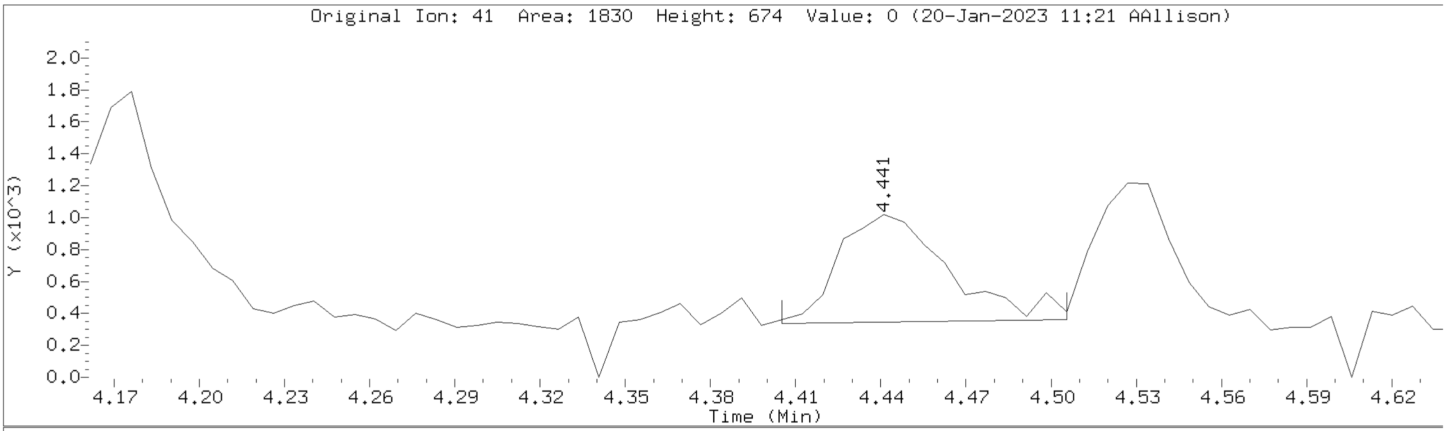
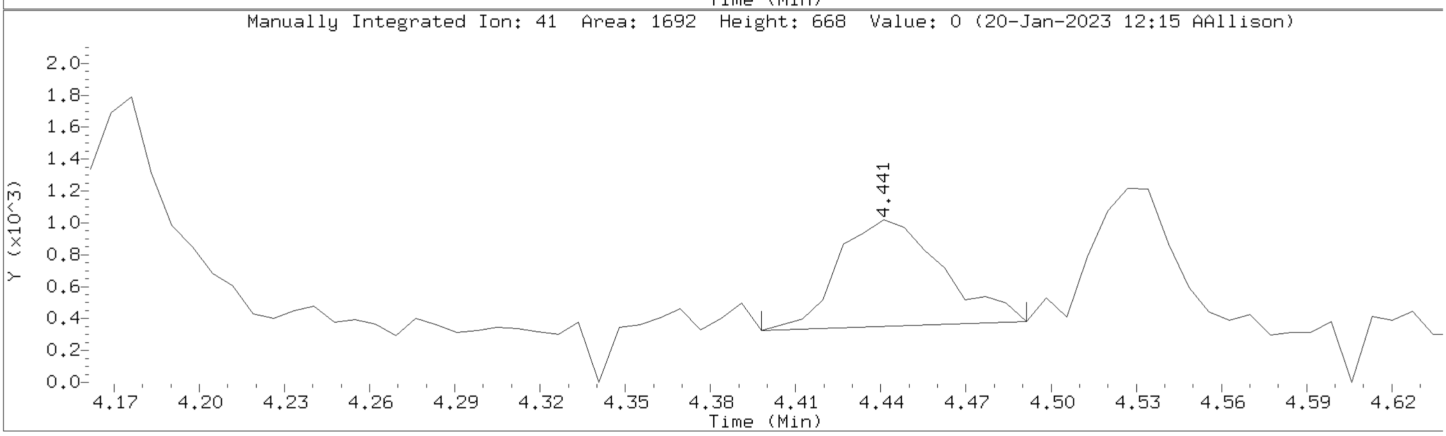
Lab Sample ID: 8260-CAL1





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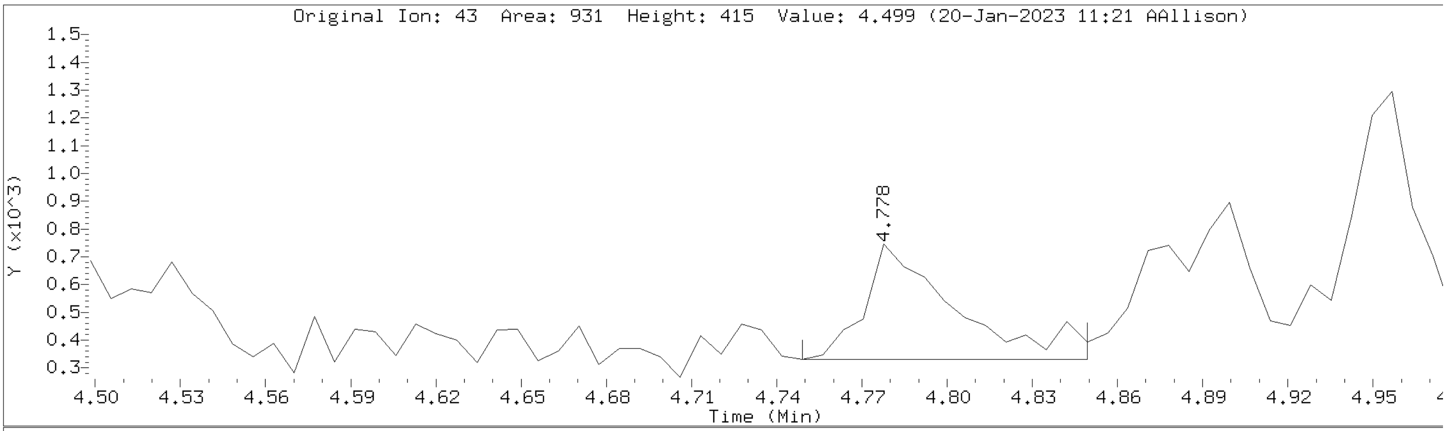
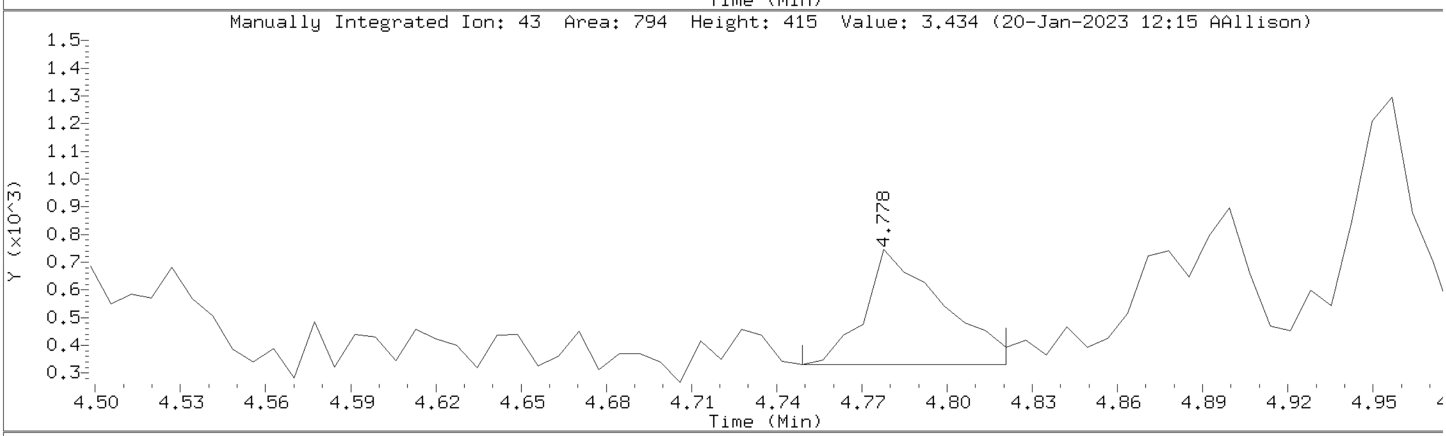
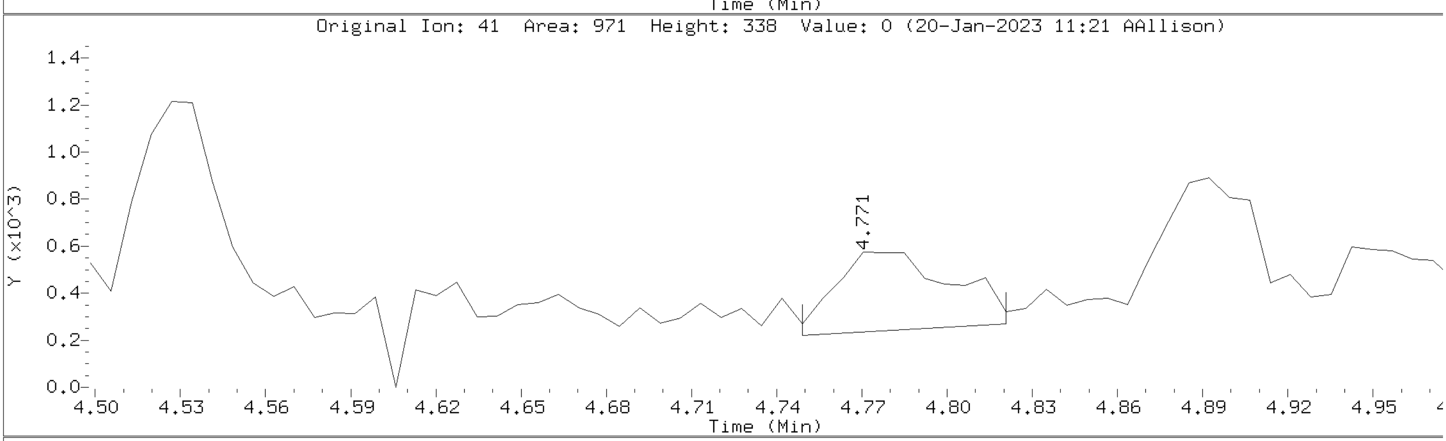
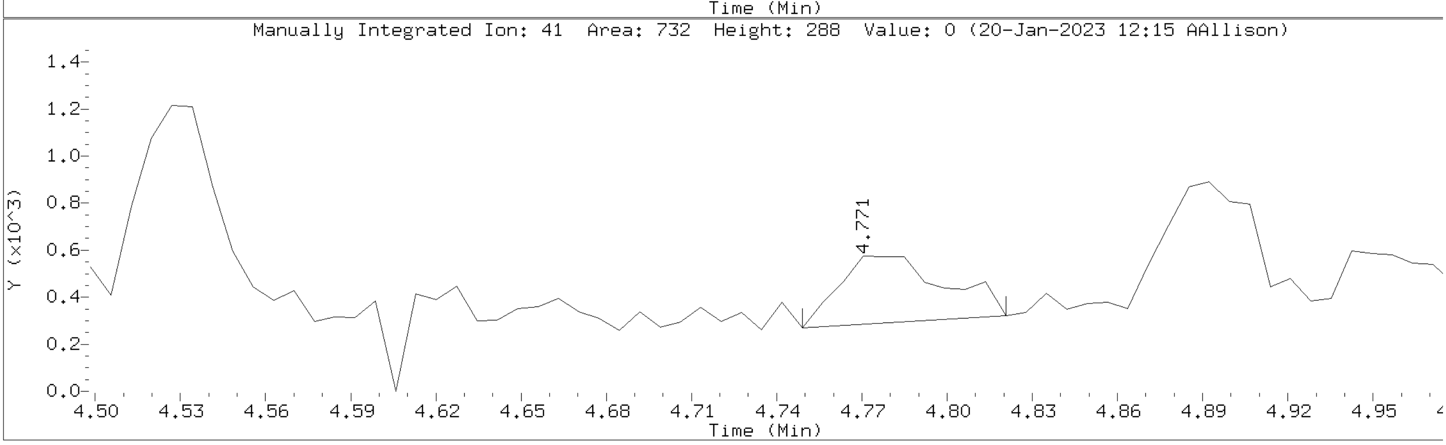
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Isobutyl alcohol   Review Code: GT
CAS Number: 78-83-1









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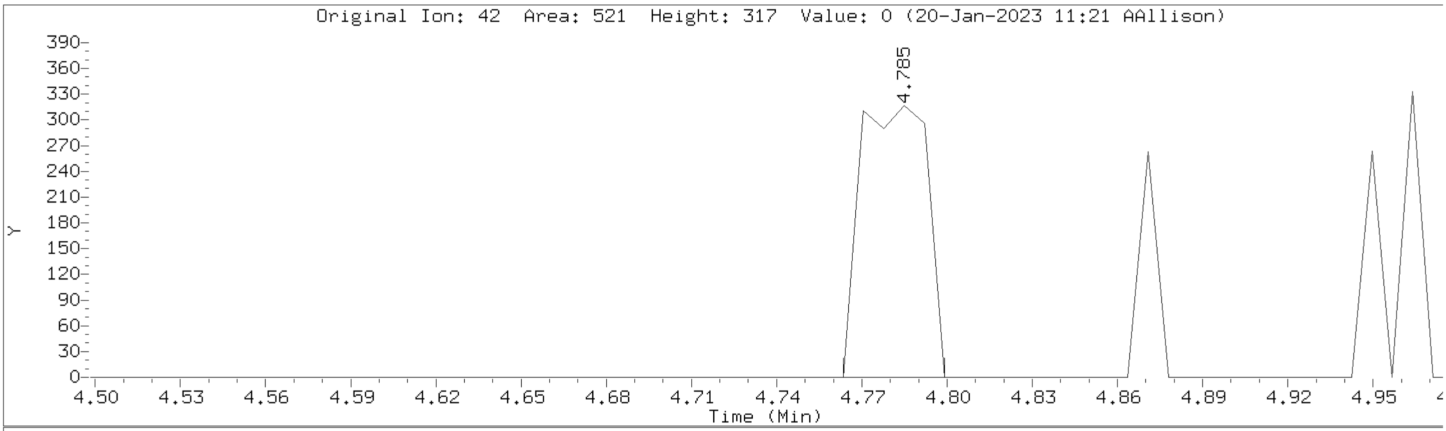
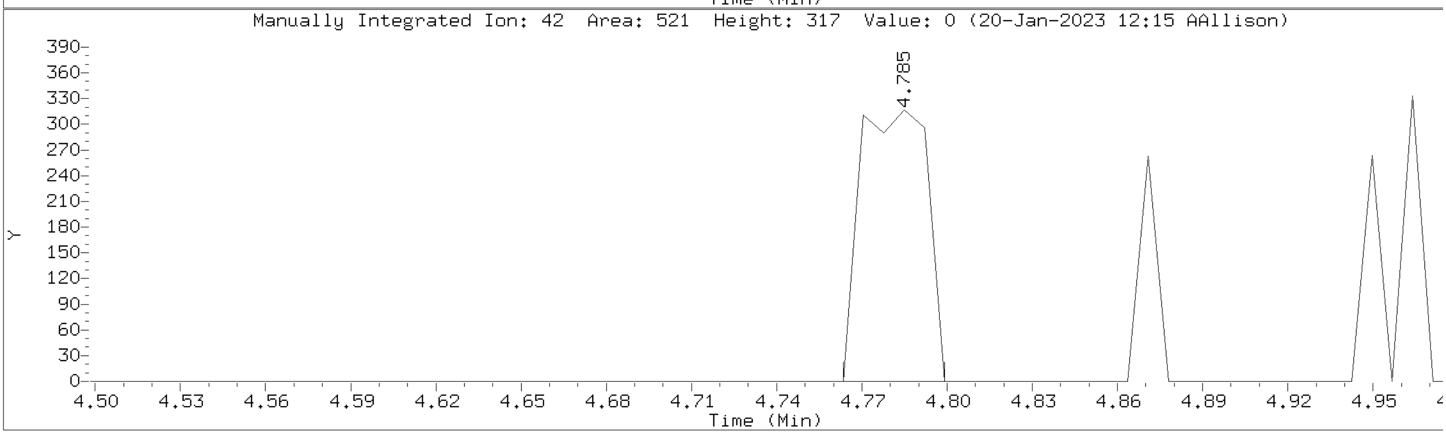
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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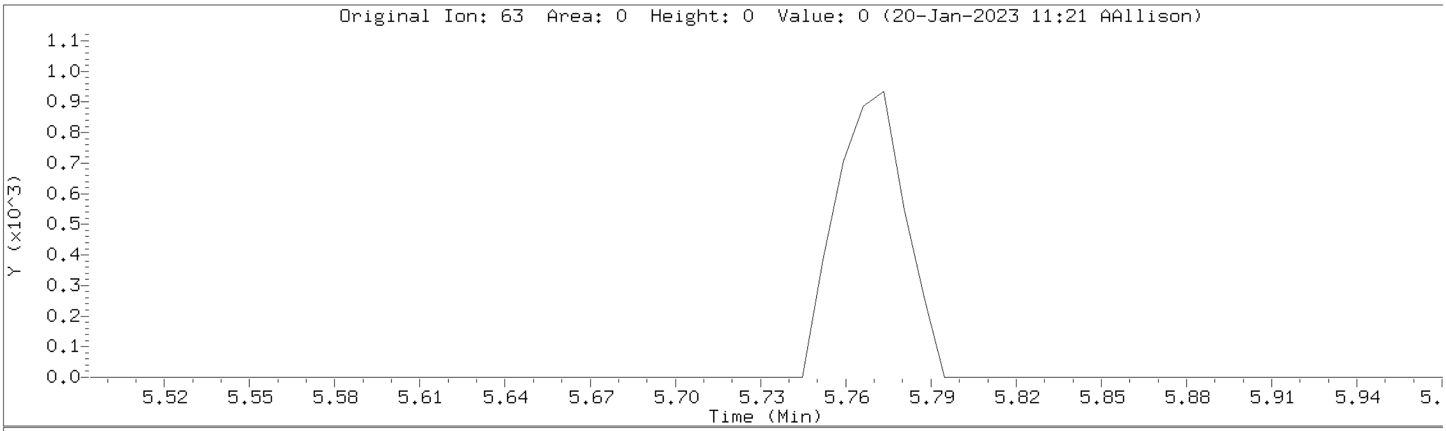
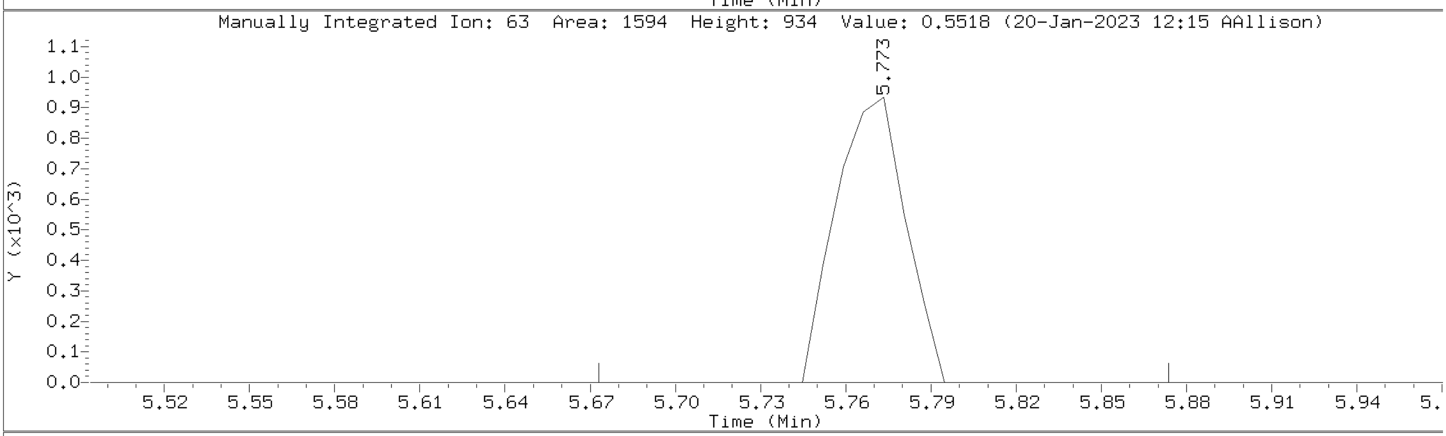
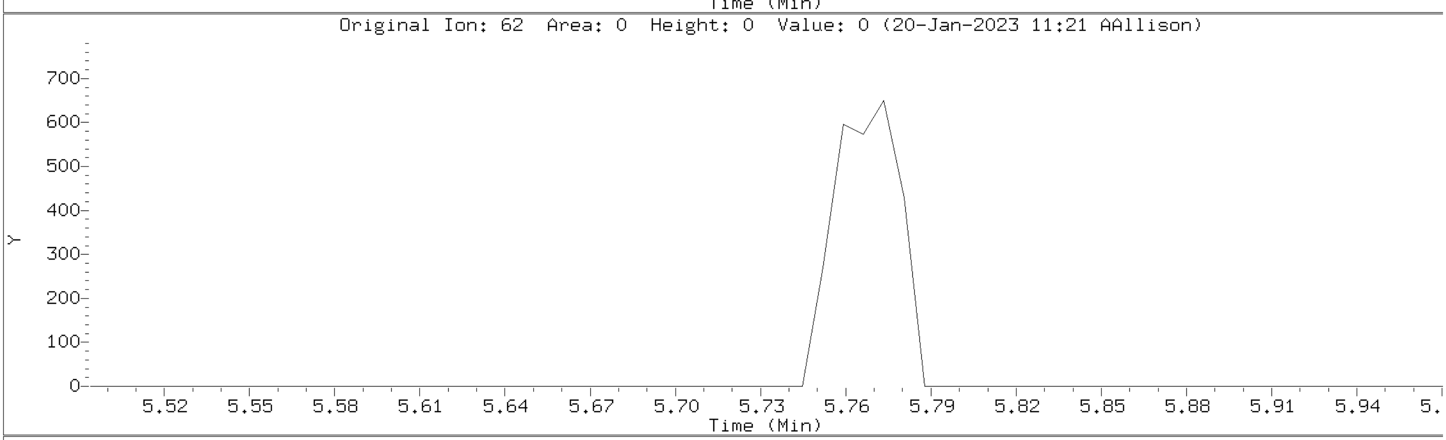
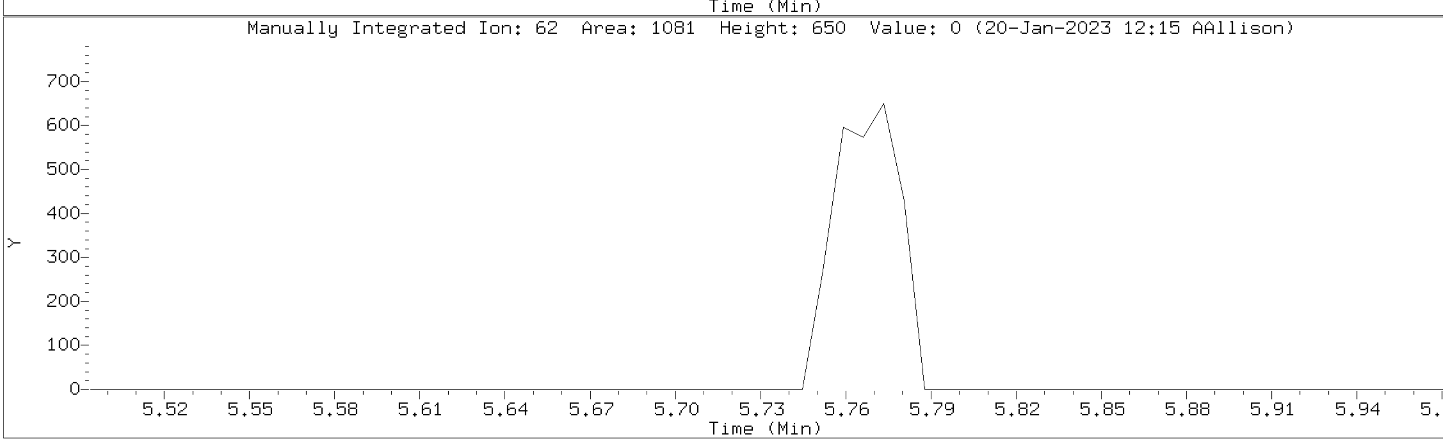
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5









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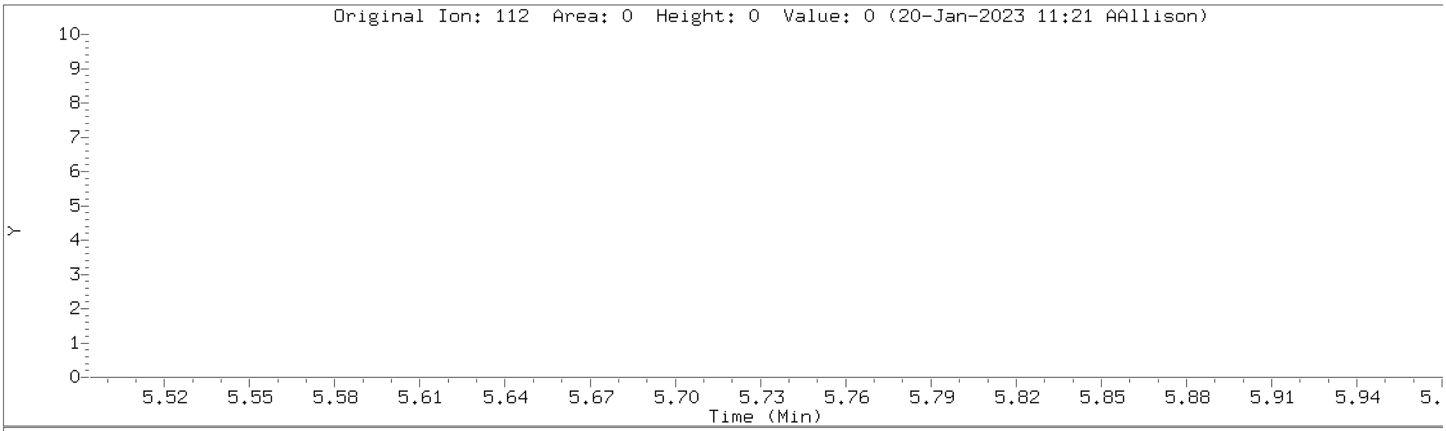
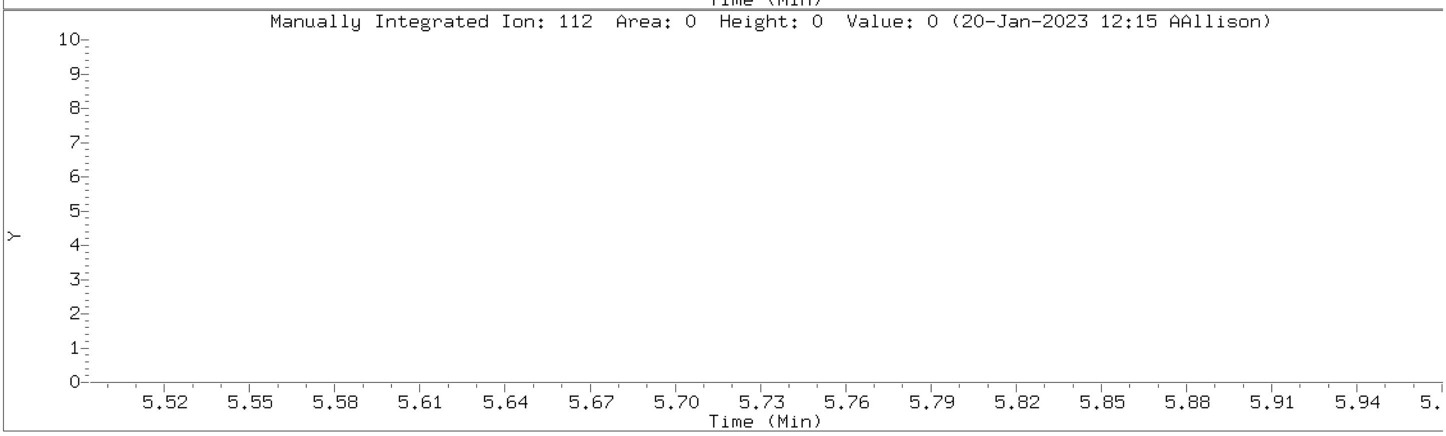
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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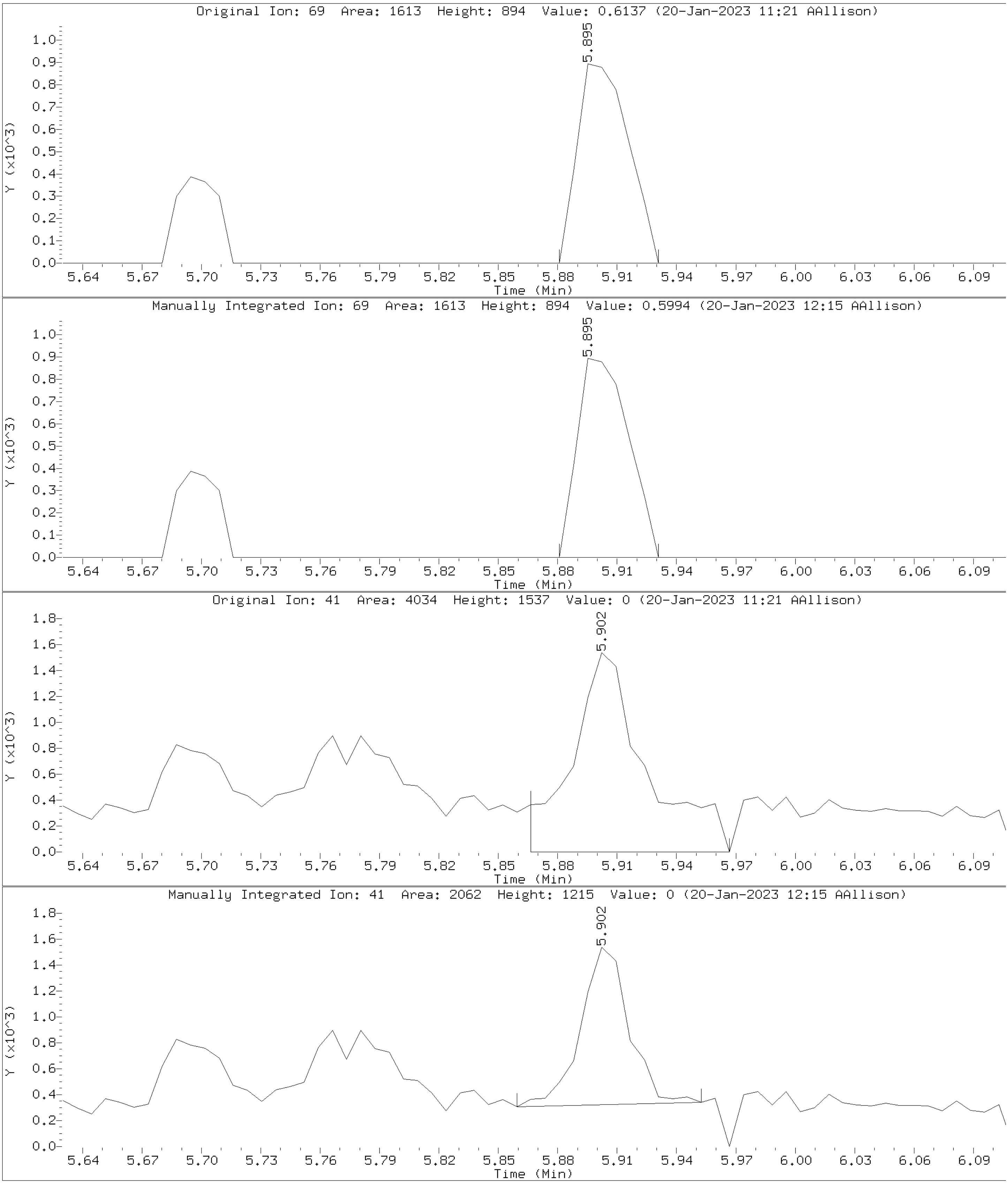
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Methyl methacrylate   Review Code: GT
CAS Number: 80-62-6



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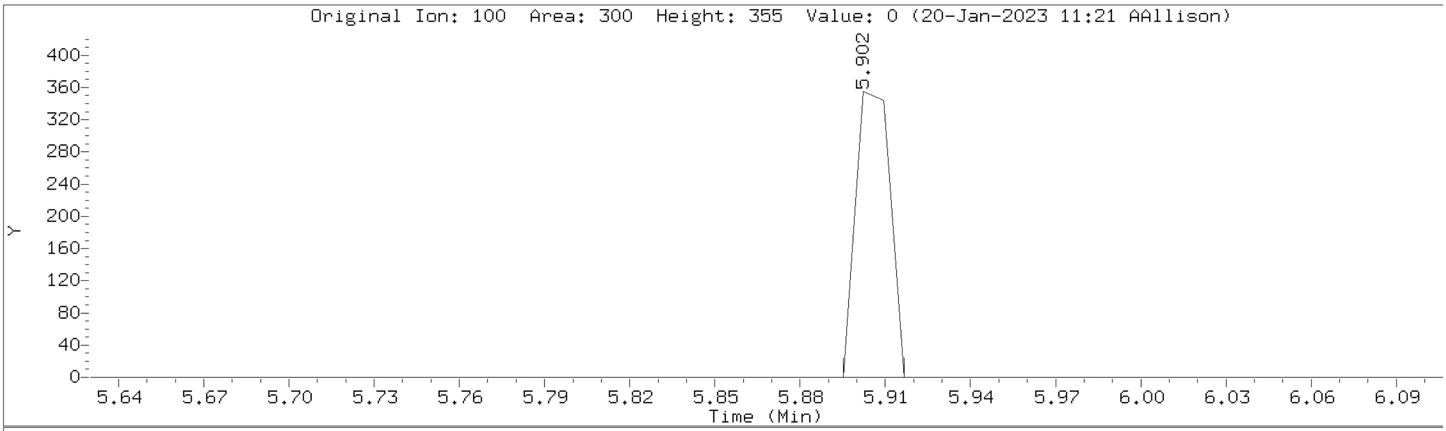
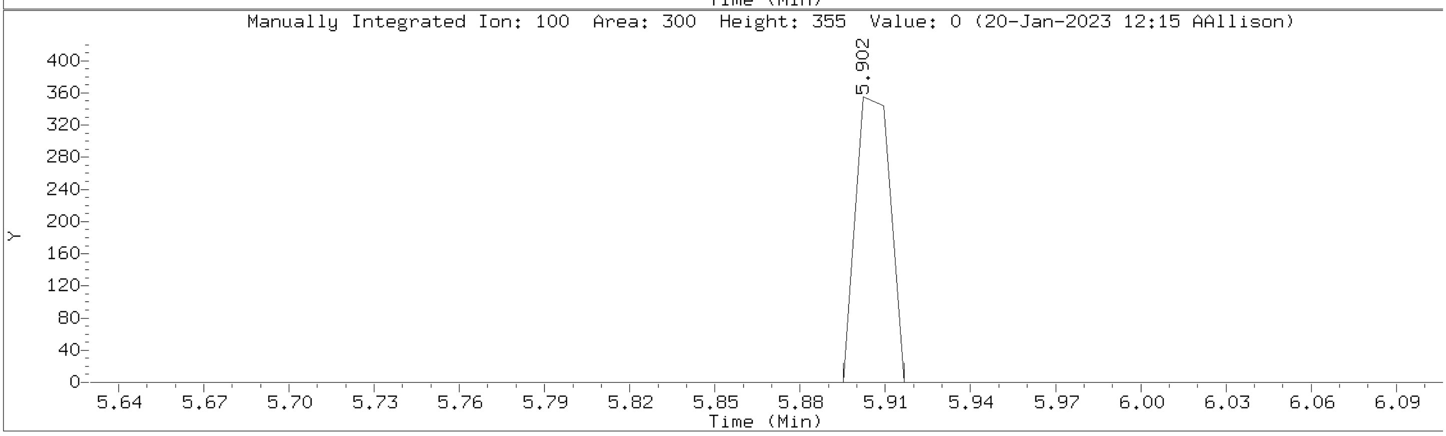
Lab Sample ID: 8260-CAL1





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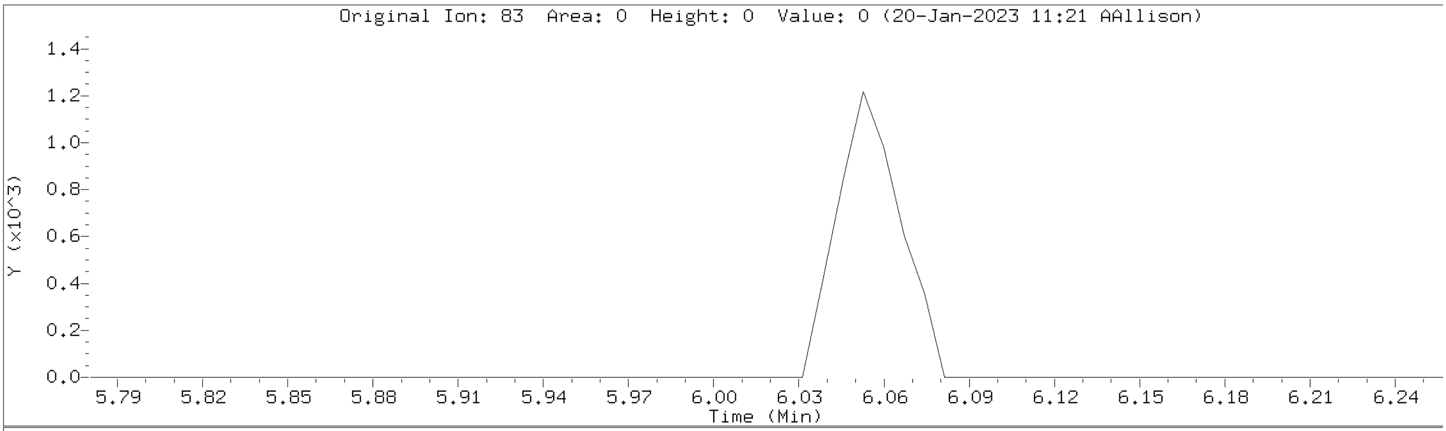
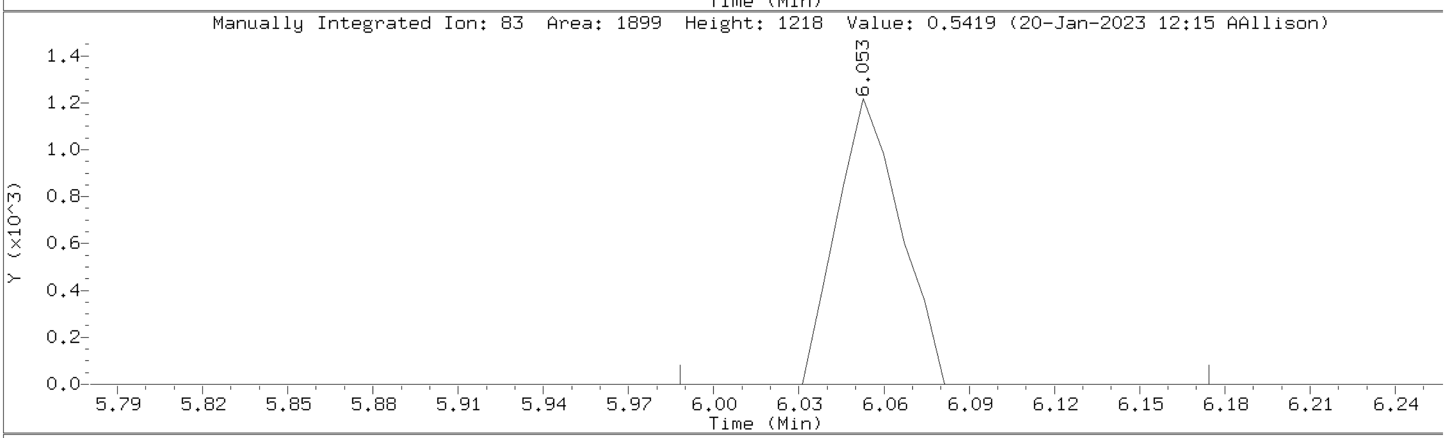
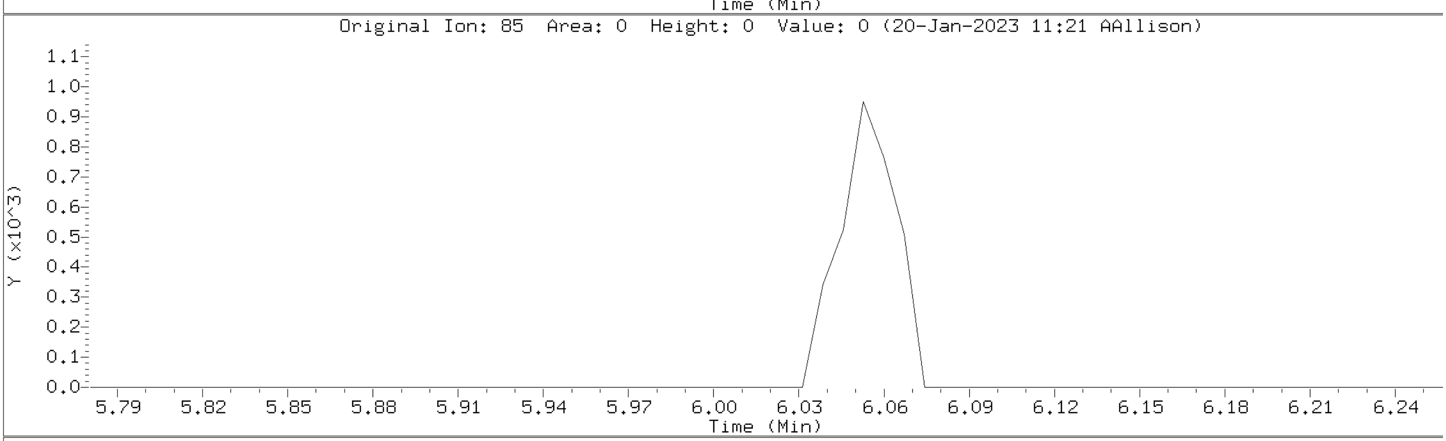
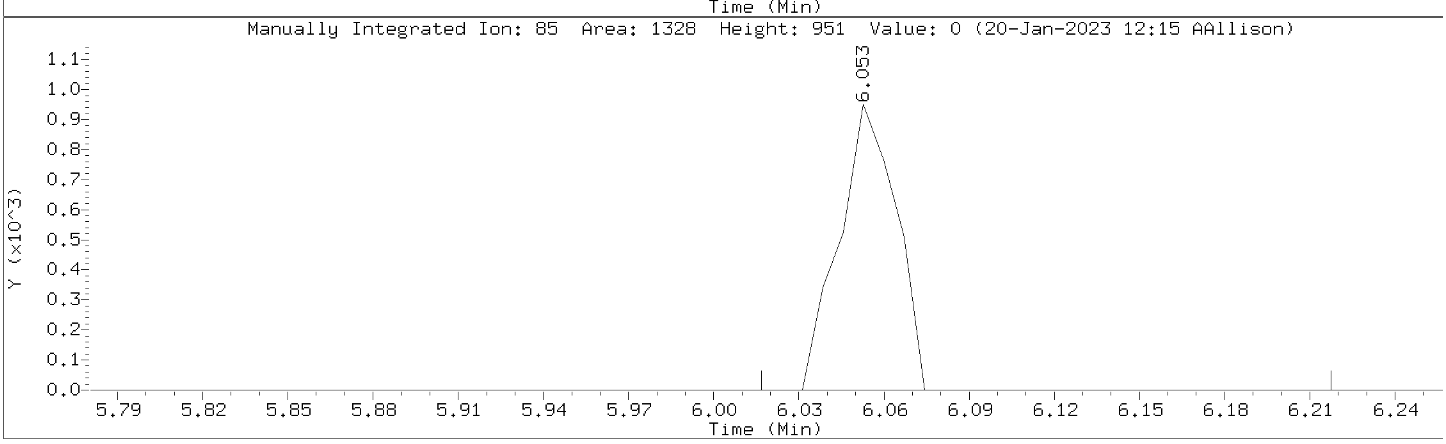
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Bromodichloromethane   Review Code: NI
CAS Number: 75-27-4









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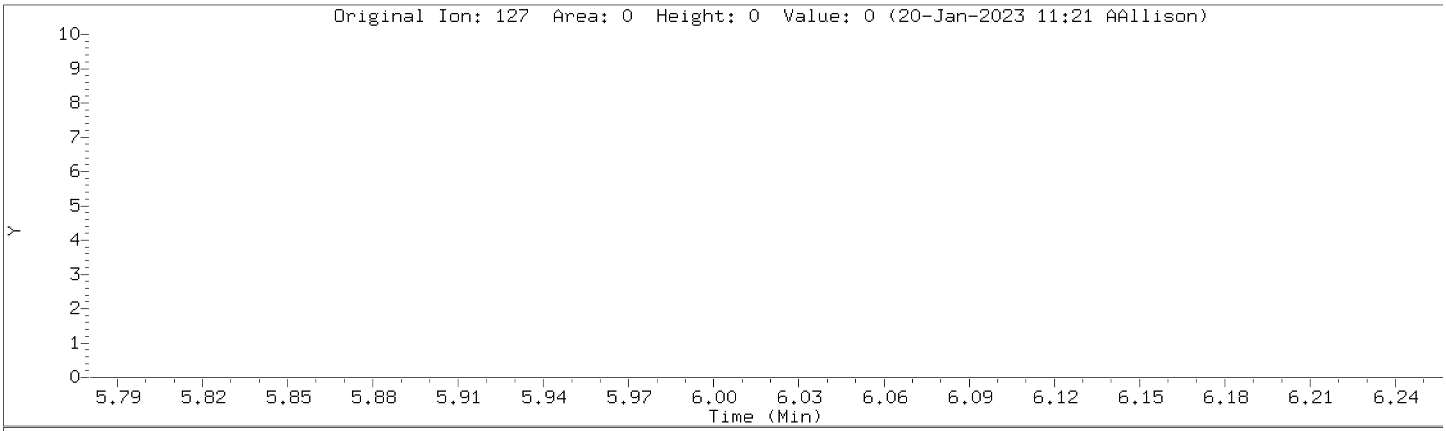
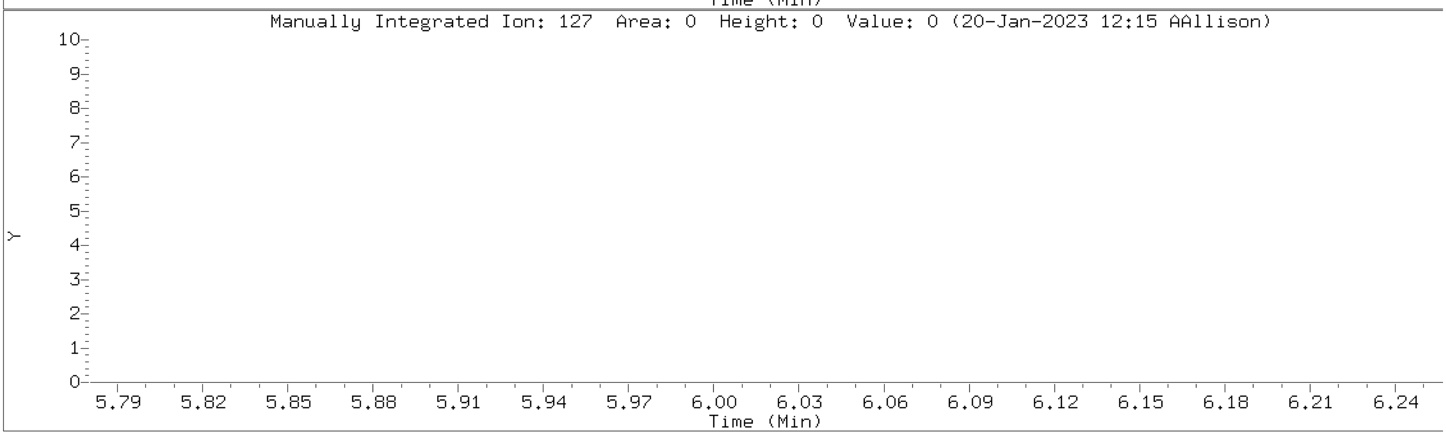
Lab Sample ID: 8260-CAL1





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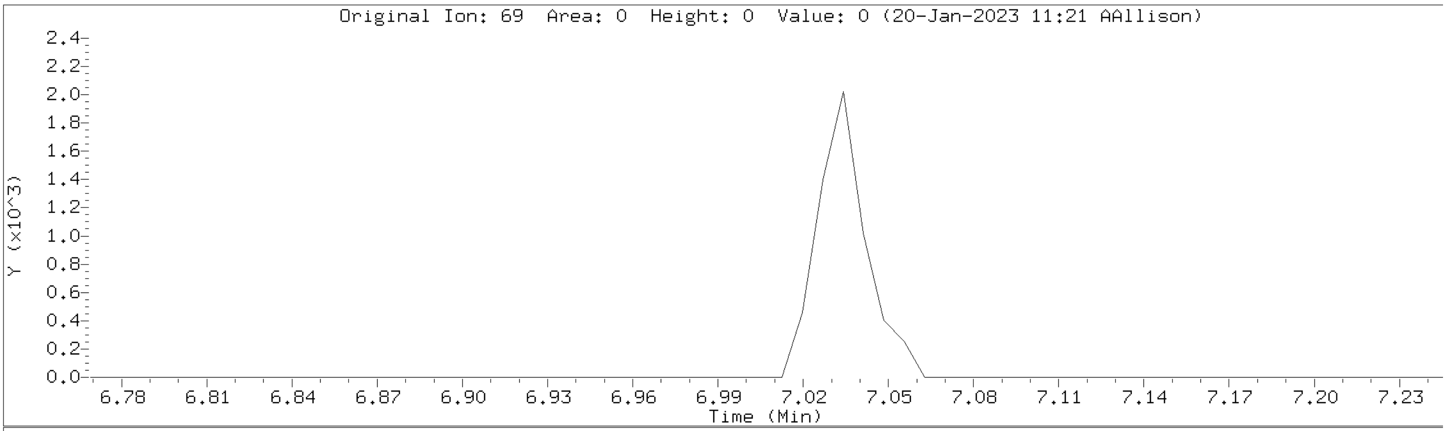
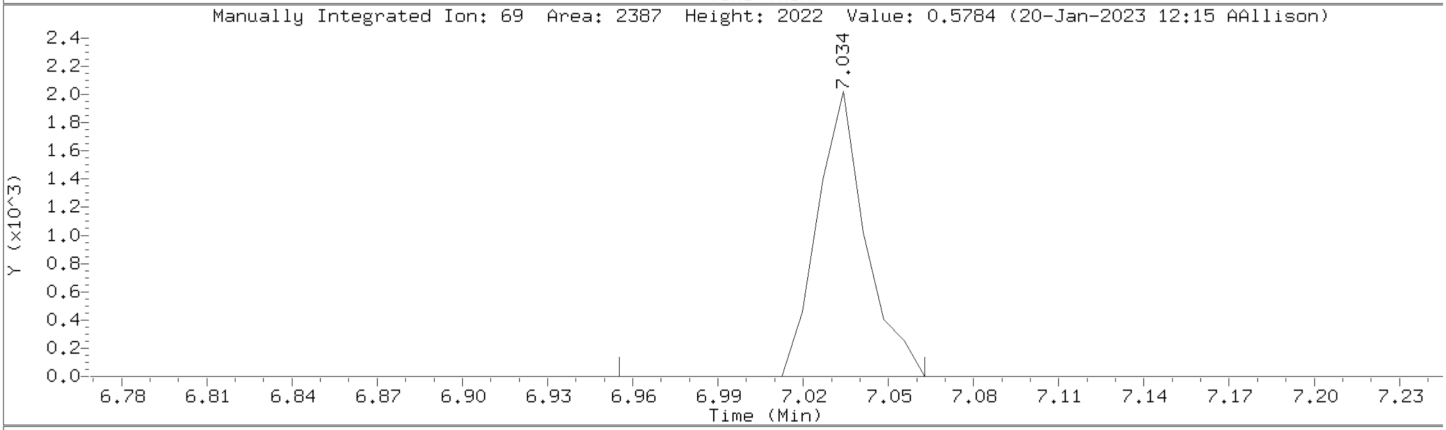
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:

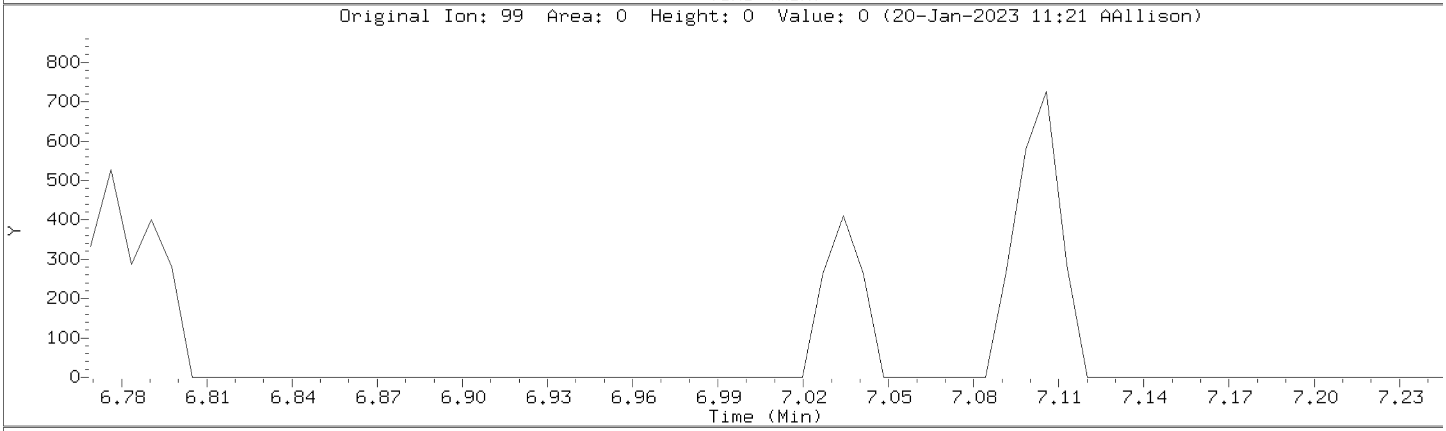
Original Ion: 69 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)



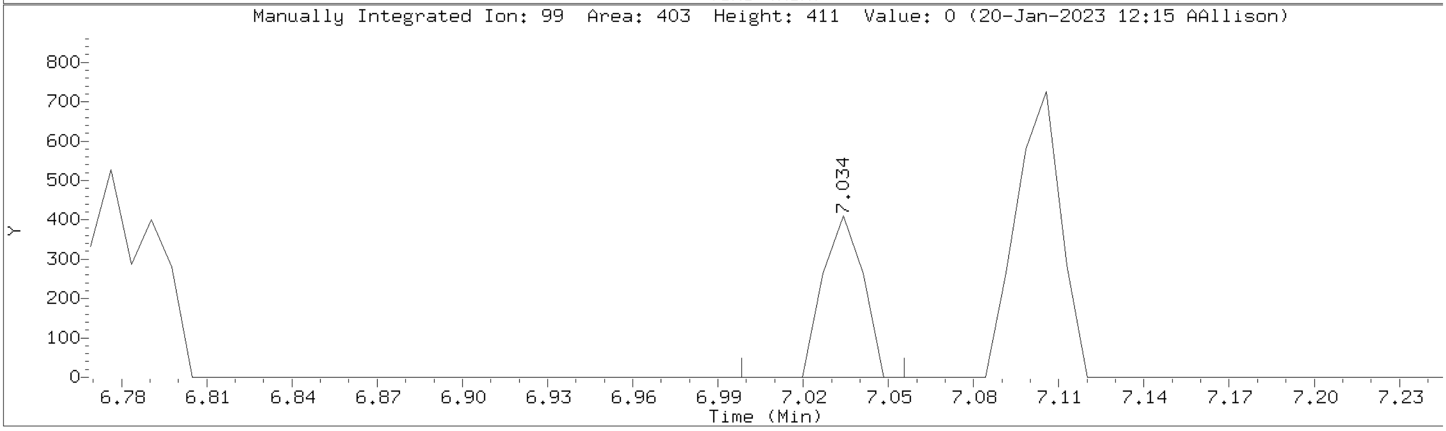
Manually Integrated Ion: 69 Area: 2387 Height: 2022 Value: 0.5784 (20-Jan-2023 12:15 AAllison)



Original Ion: 99 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 99 Area: 403 Height: 411 Value: 0 (20-Jan-2023 12:15 AAllison)



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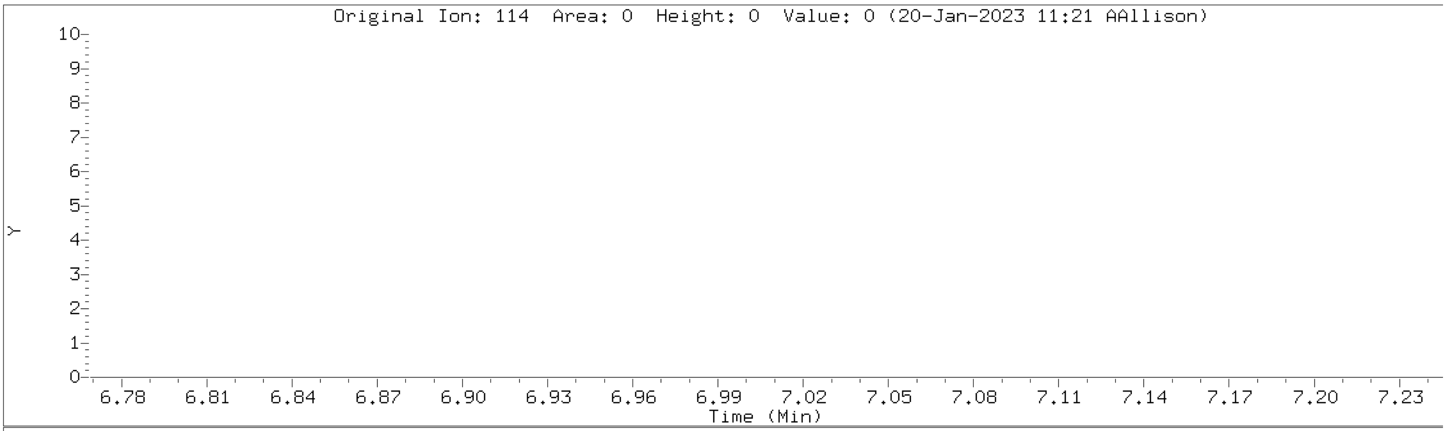
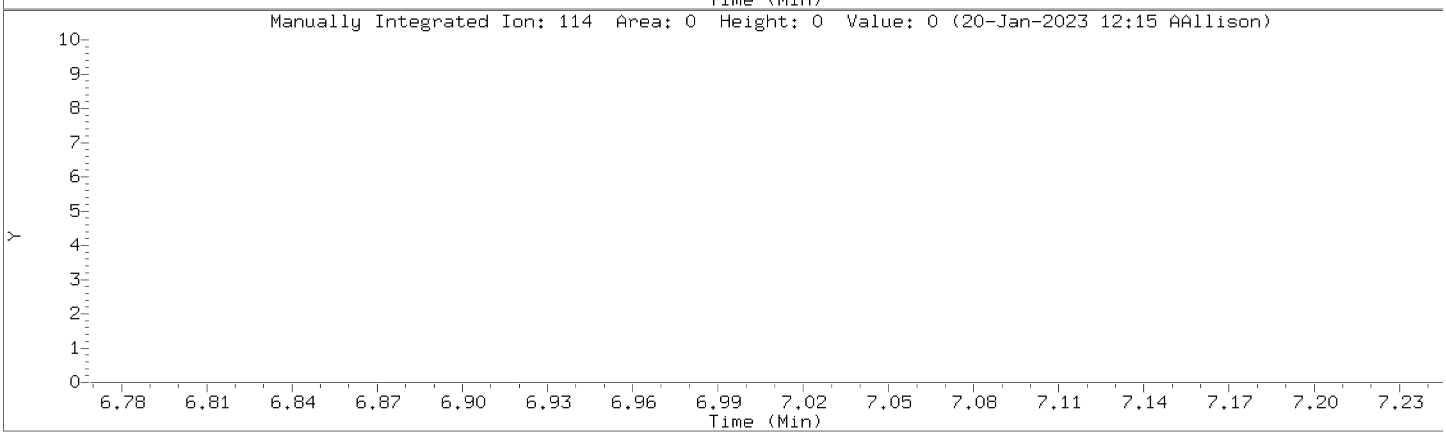
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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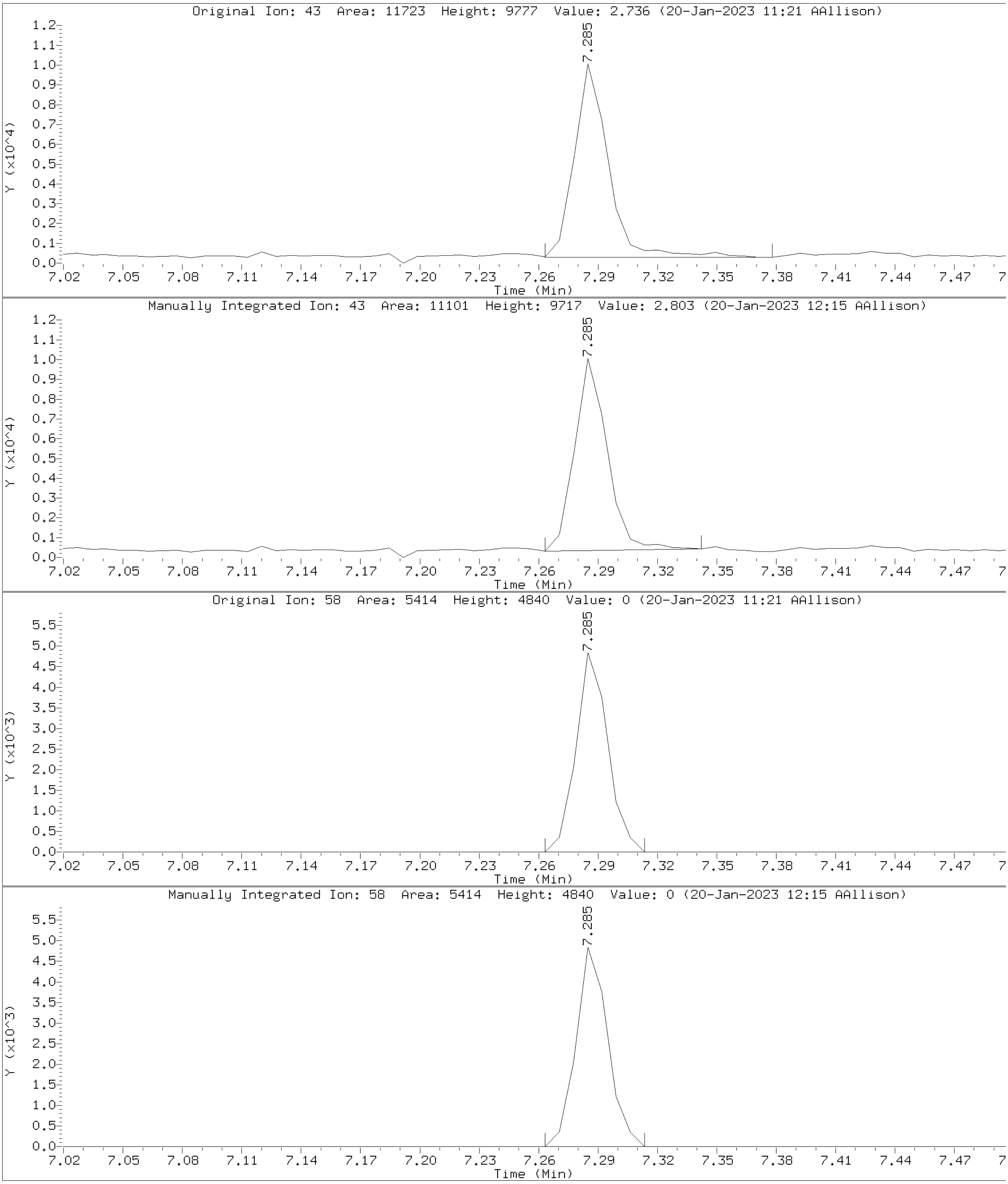
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 2-Hexanone   Review Code: GT
CAS Number: 591-78-6



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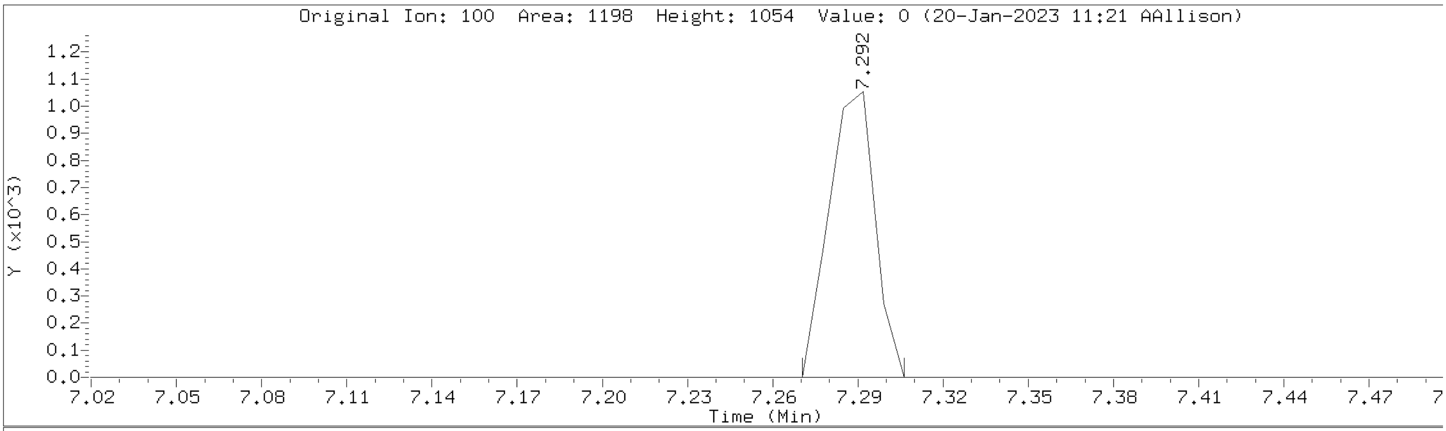
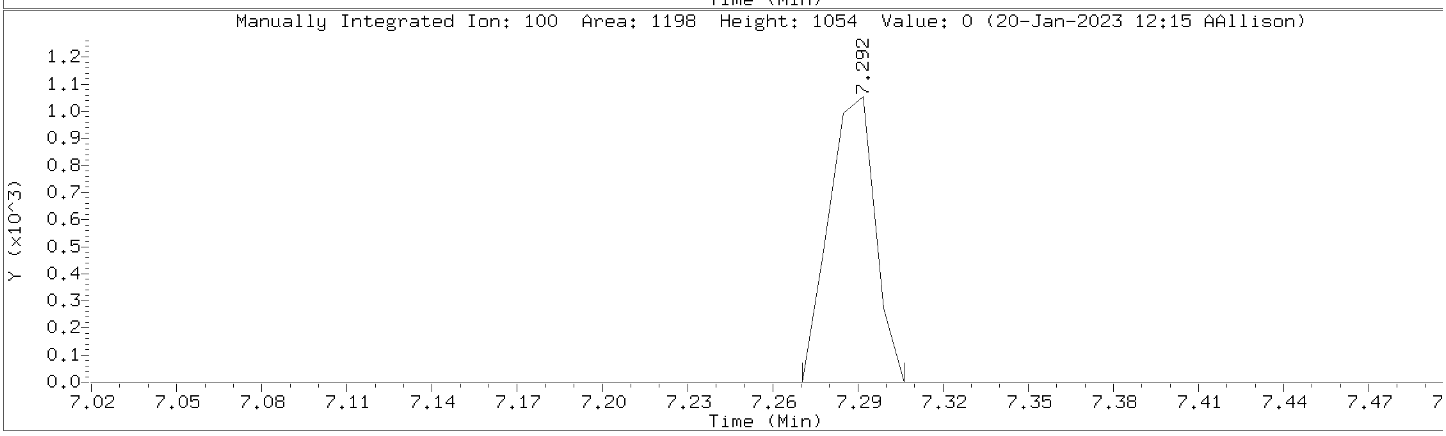
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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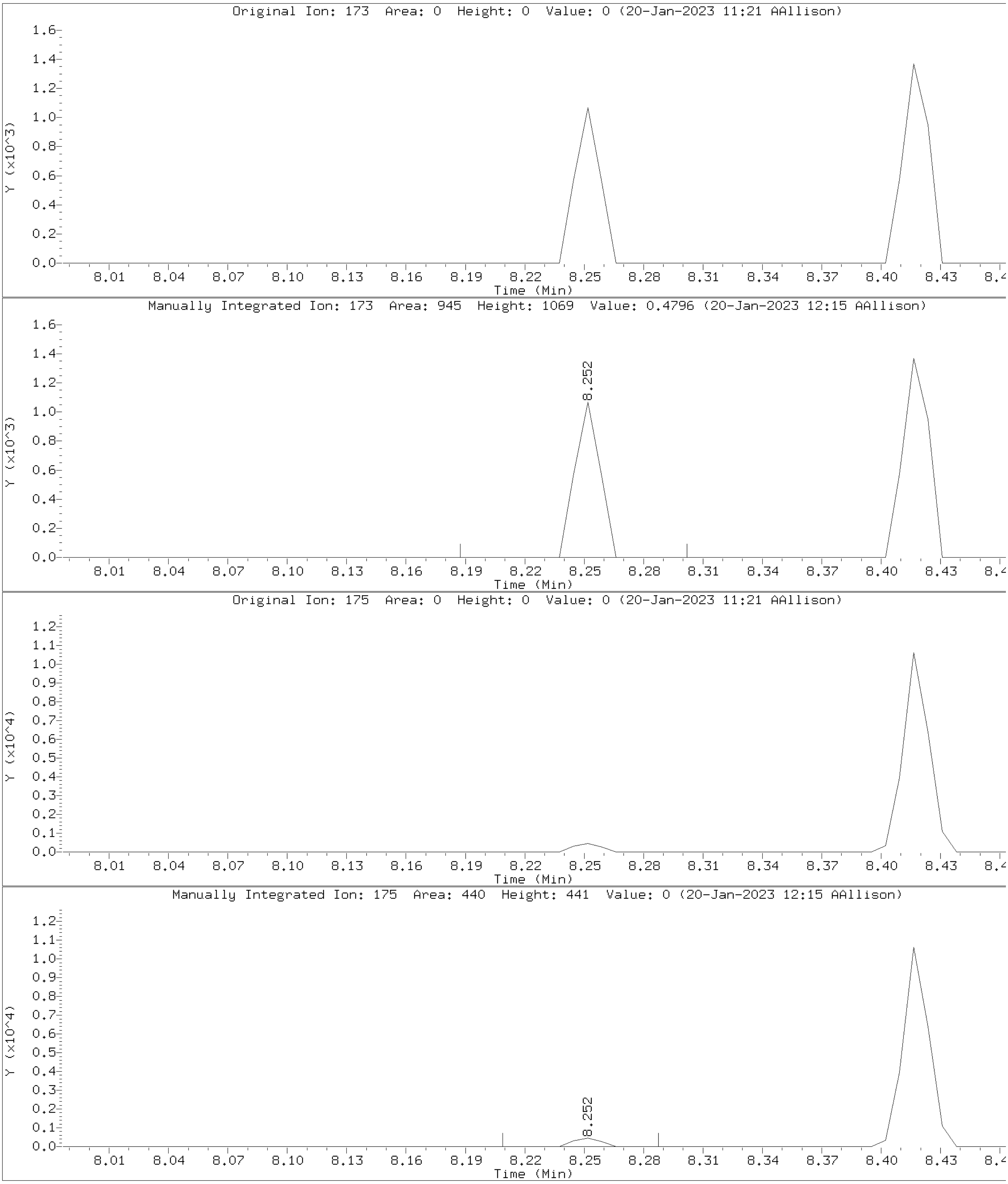
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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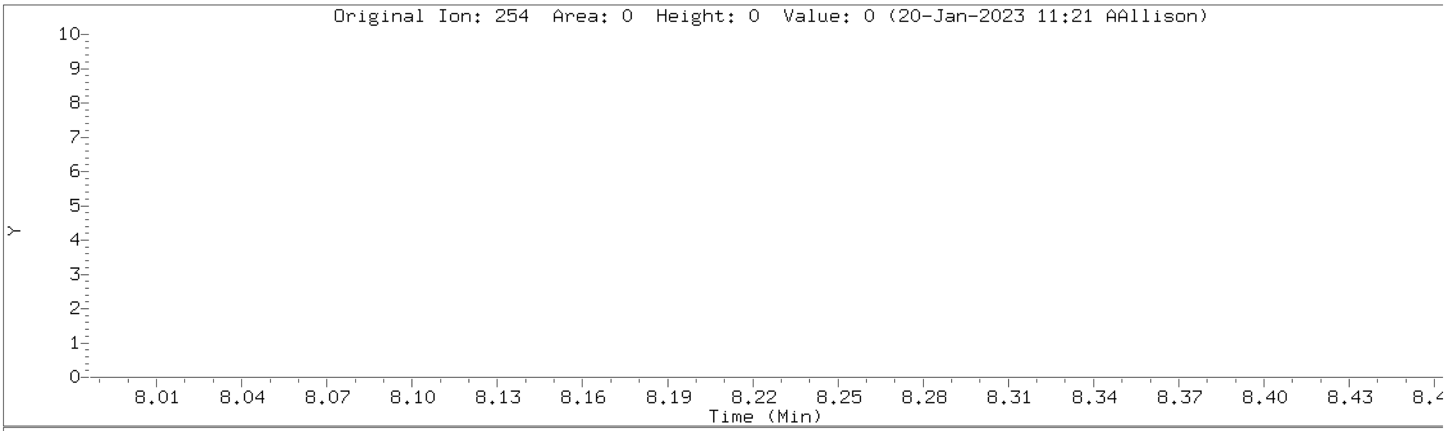
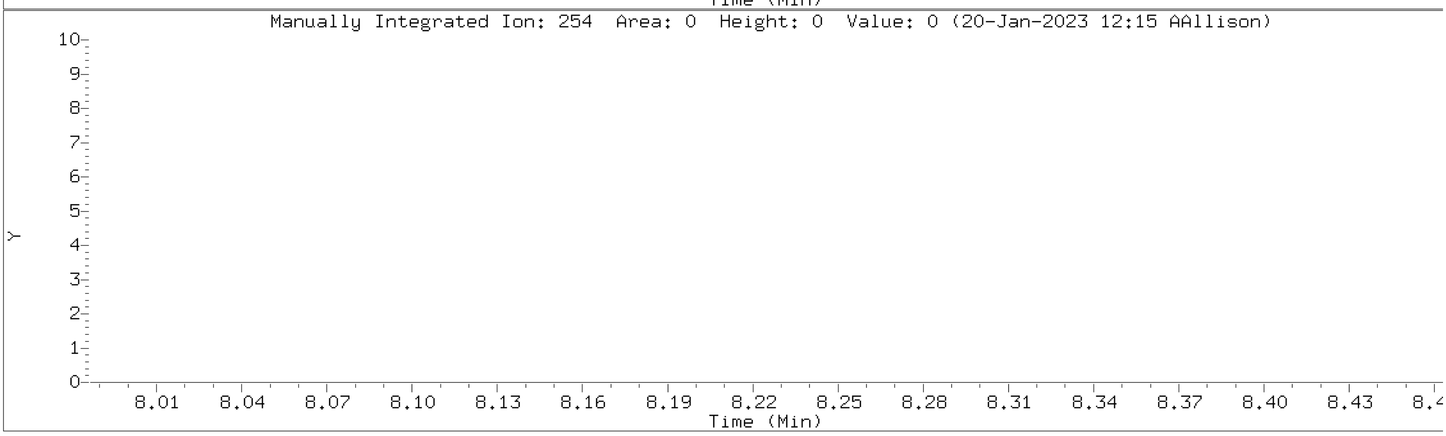
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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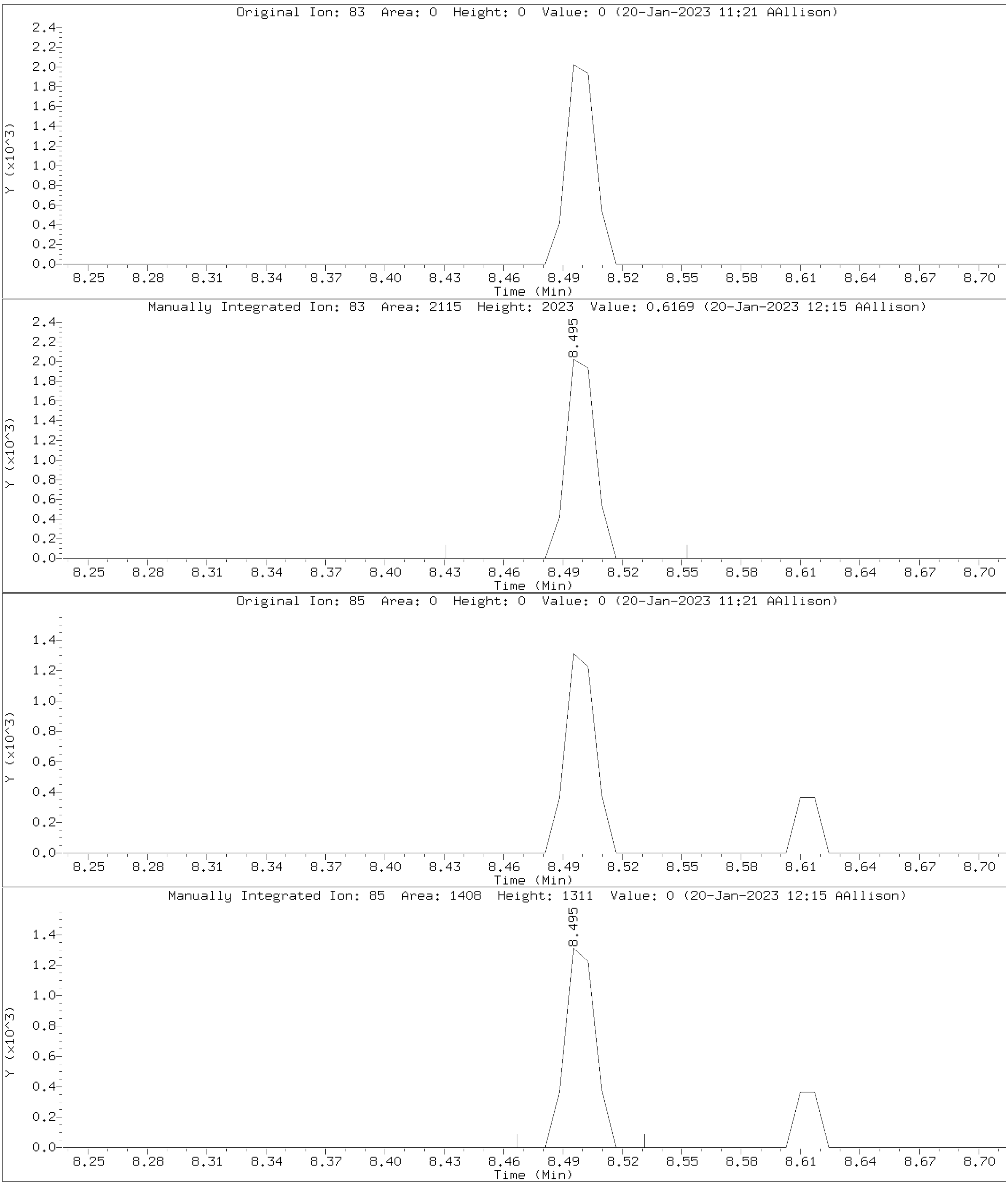
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5



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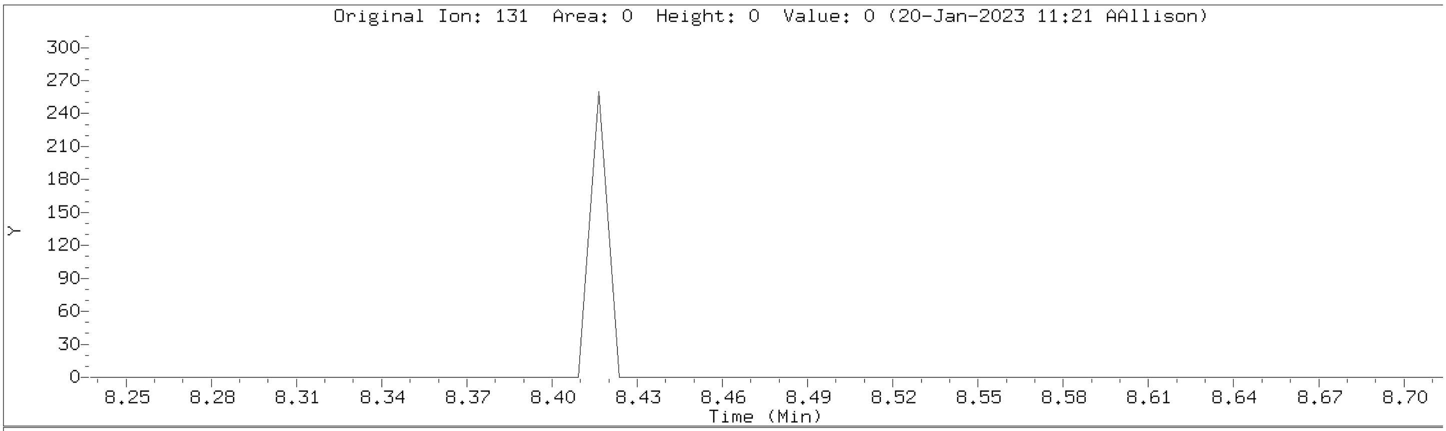
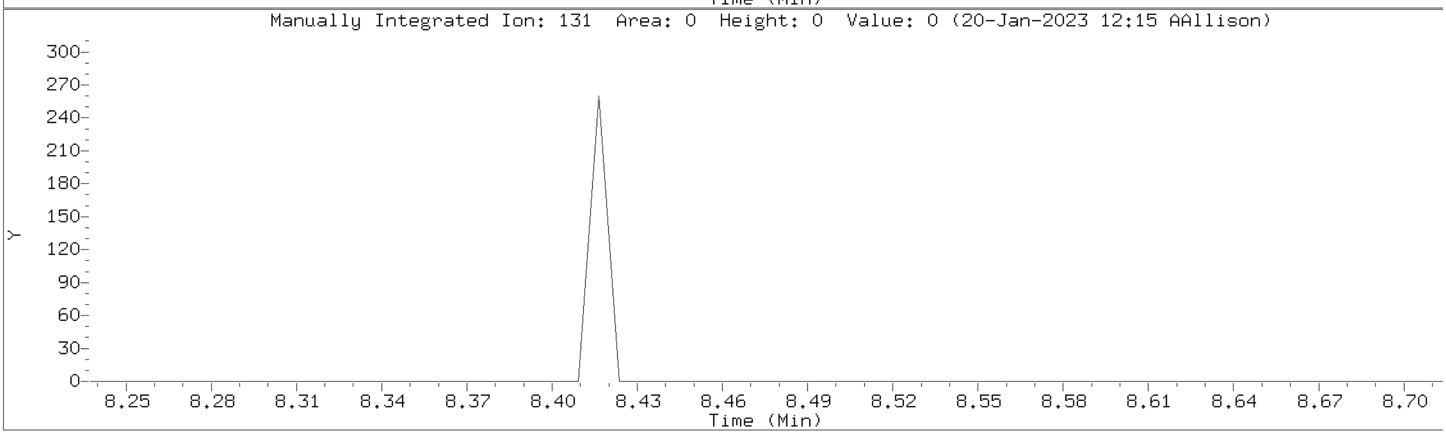
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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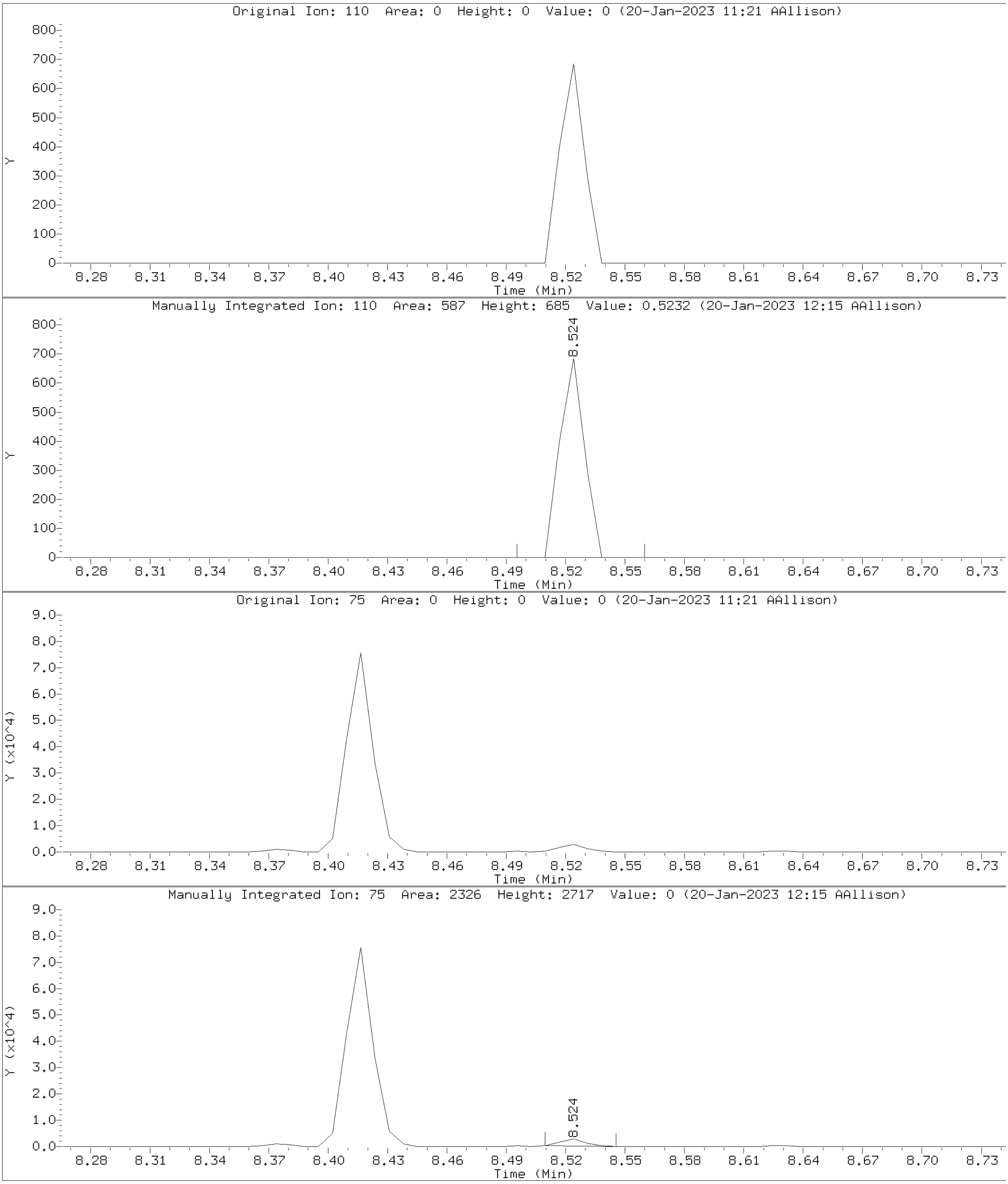
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,3-Trichloropropane   Review Code: NI
CAS Number: 96-18-4



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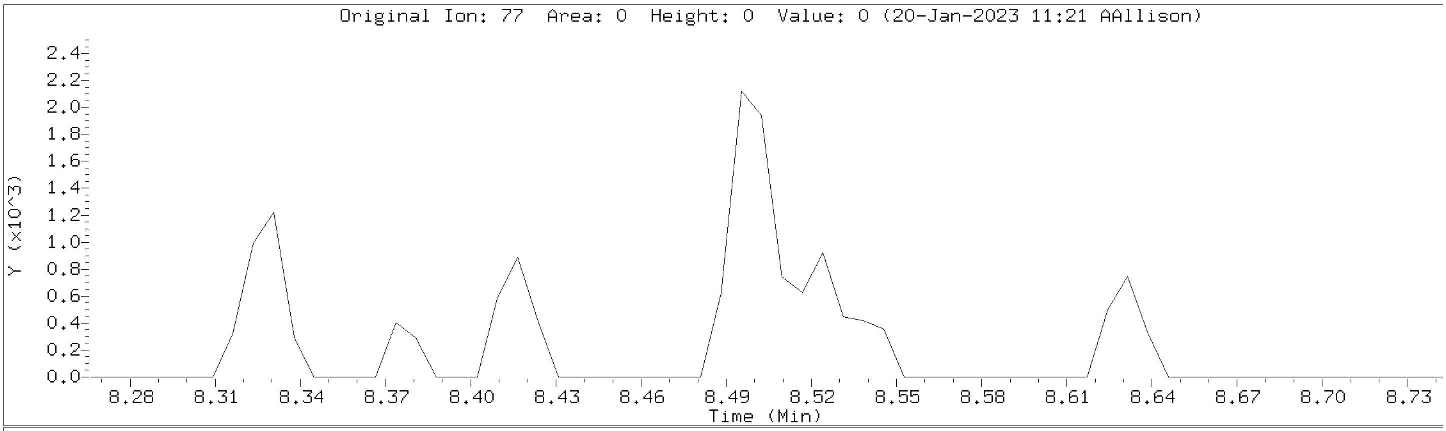
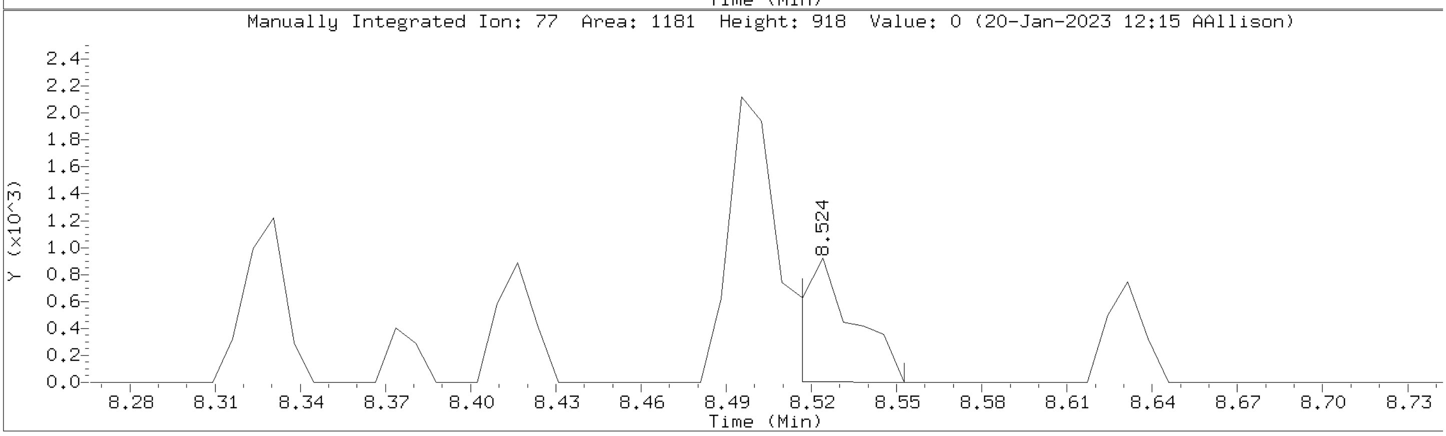
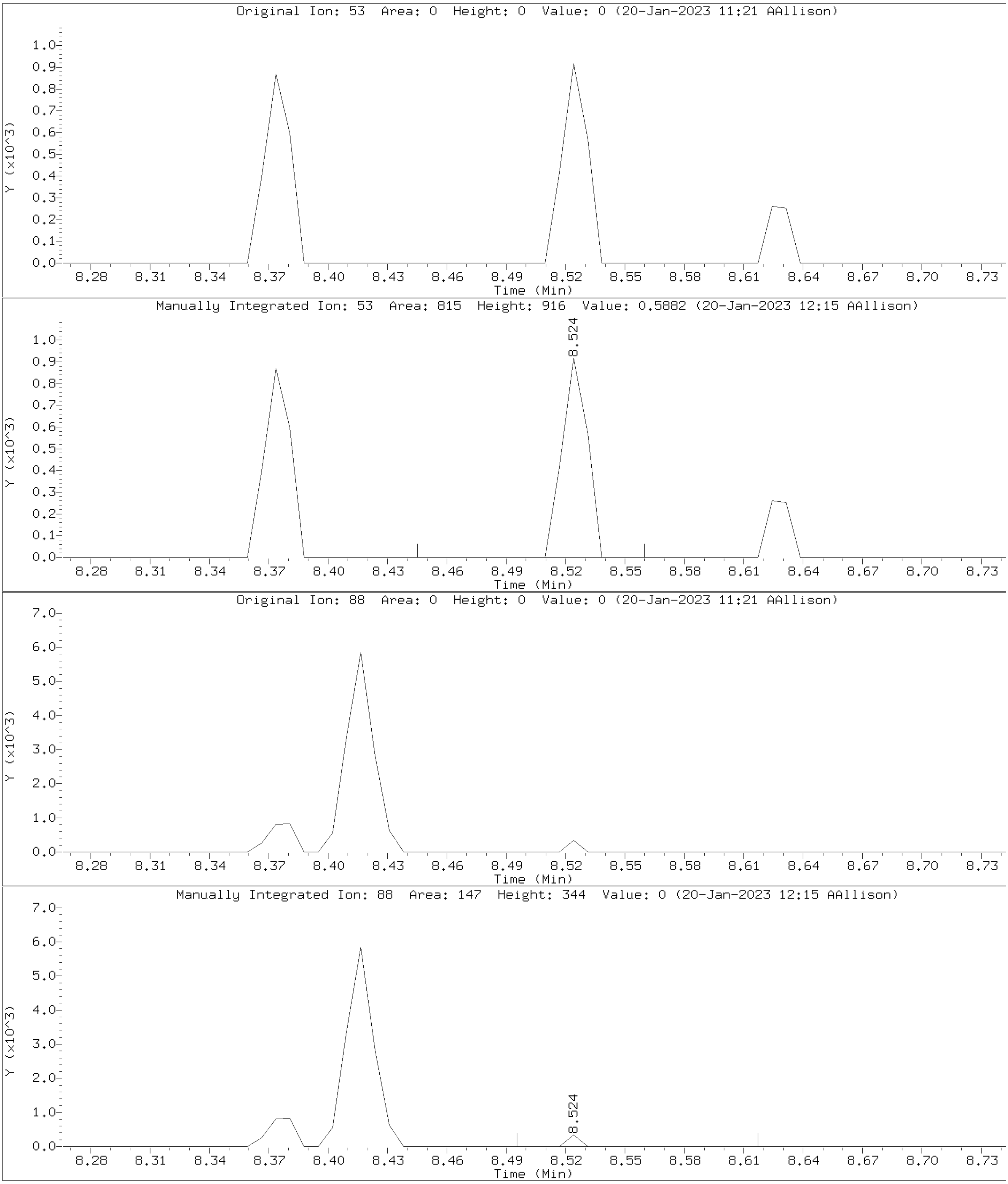
Lab Sample ID: 8260-CAL1





Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: trans-1,4-Dichloro-2-butene   Review Code: NI
CAS Number:



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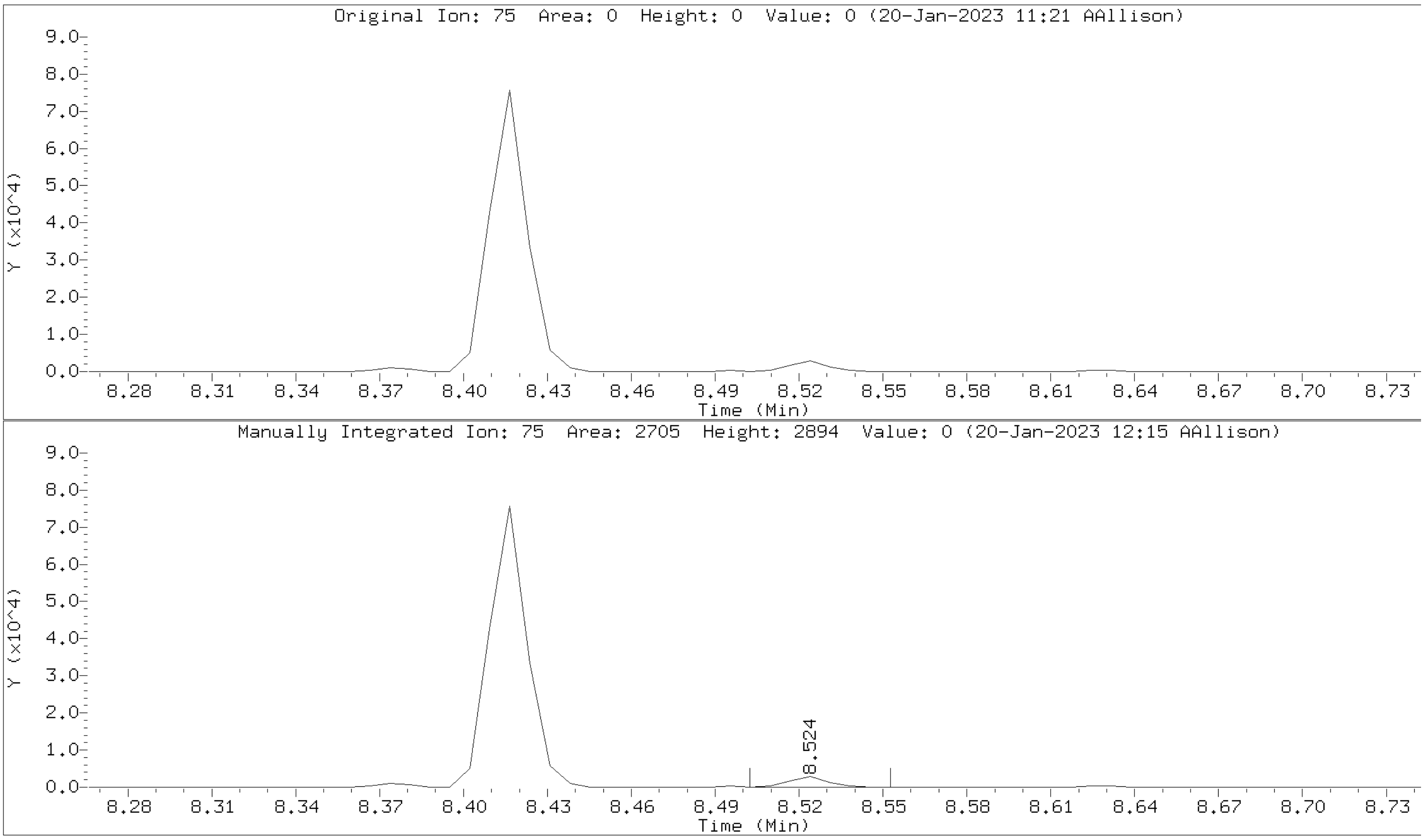
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1



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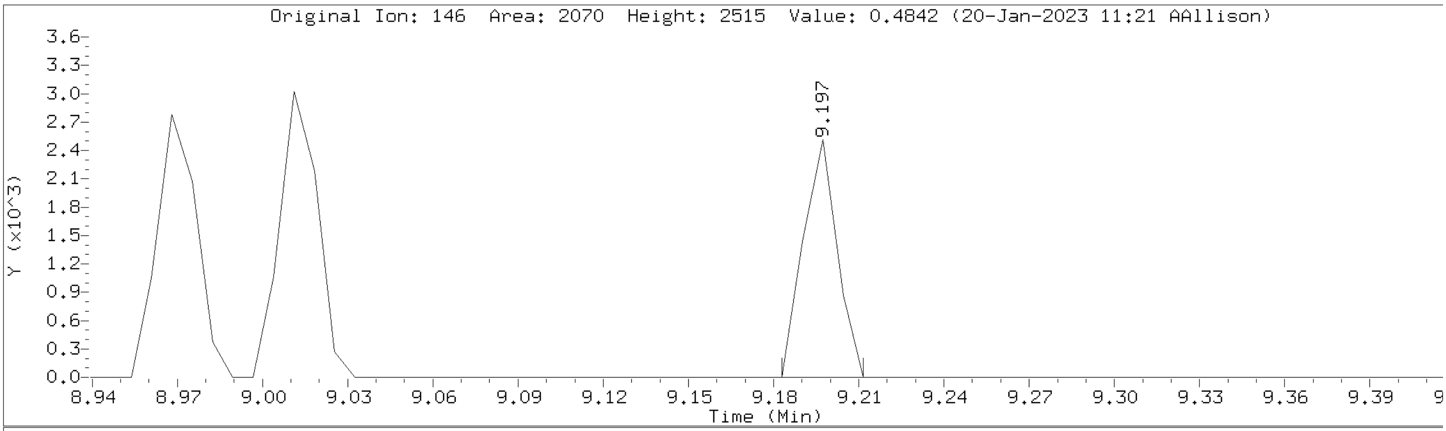
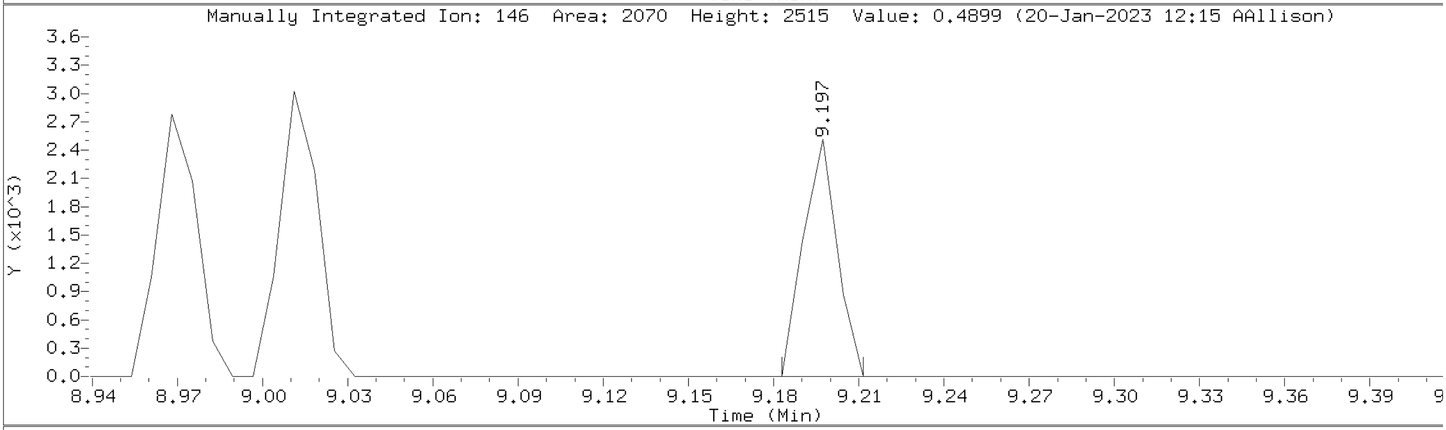
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichlorobenzene   Review Code: WP
CAS Number: 95-50-1

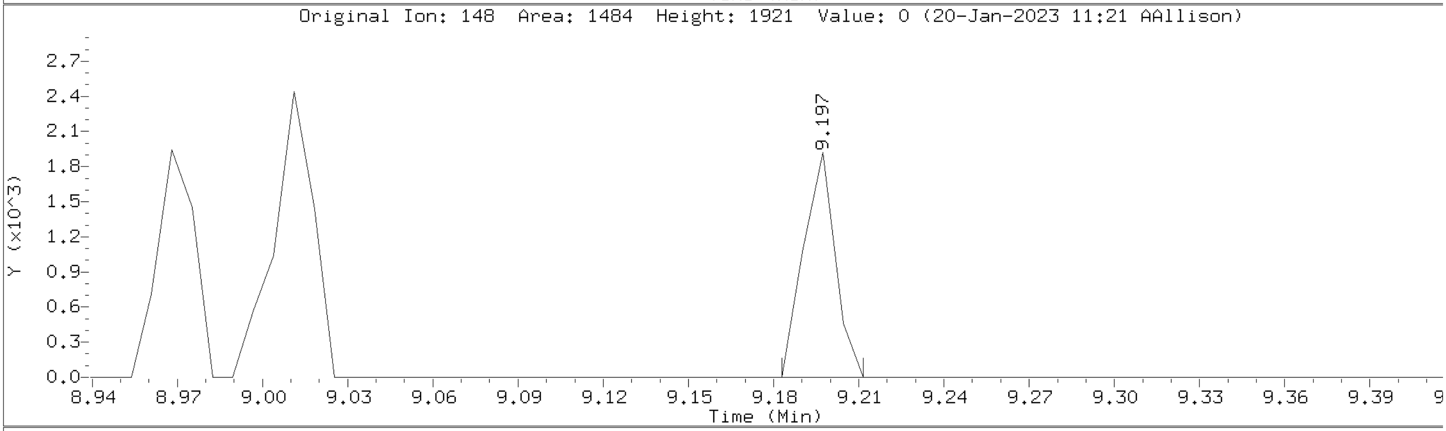
Original Ion: 146 Area: 2070 Height: 2515 Value: 0.4842 (20-Jan-2023 11:21 AAllison)



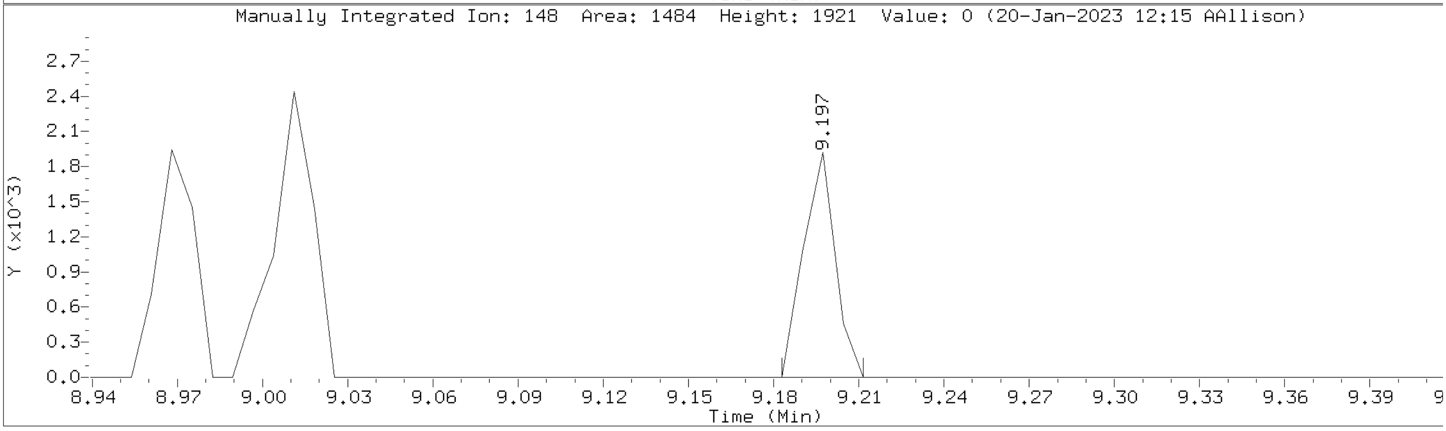
Manually Integrated Ion: 146 Area: 2070 Height: 2515 Value: 0.4899 (20-Jan-2023 12:15 AAllison)



Original Ion: 148 Area: 1484 Height: 1921 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 148 Area: 1484 Height: 1921 Value: 0 (20-Jan-2023 12:15 AAllison)



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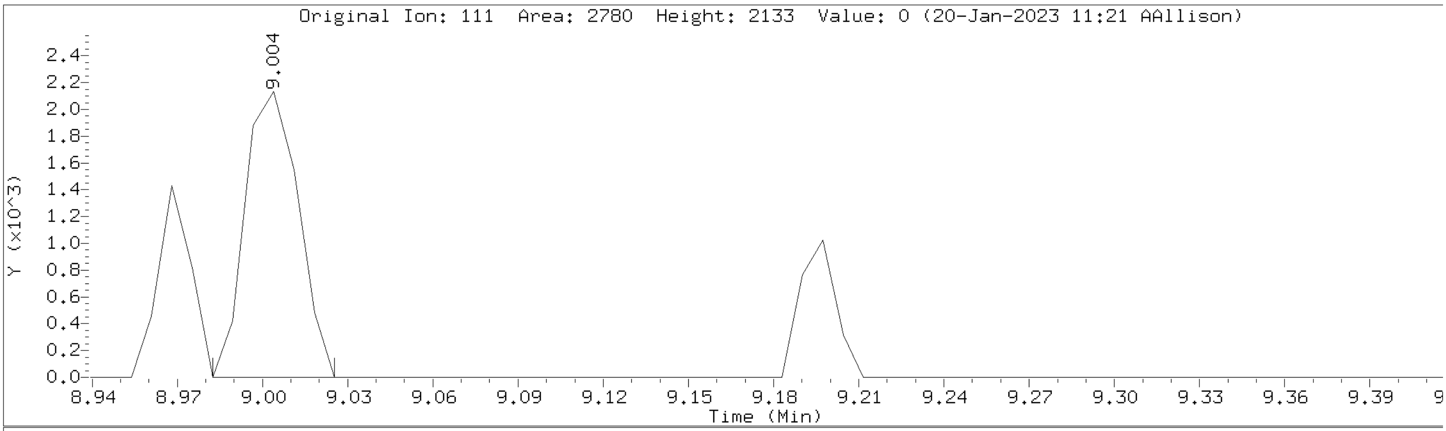
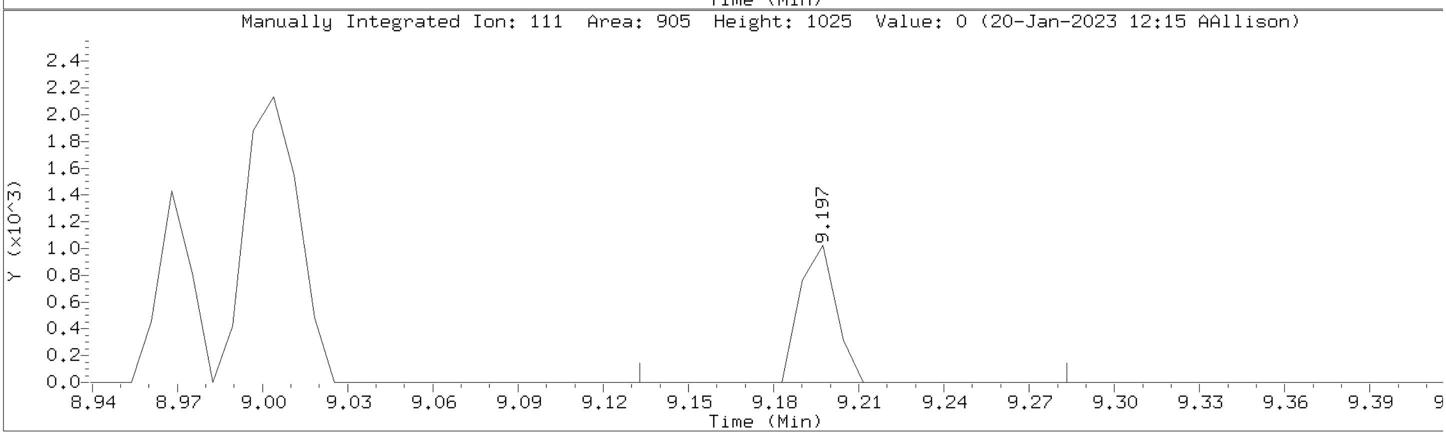
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

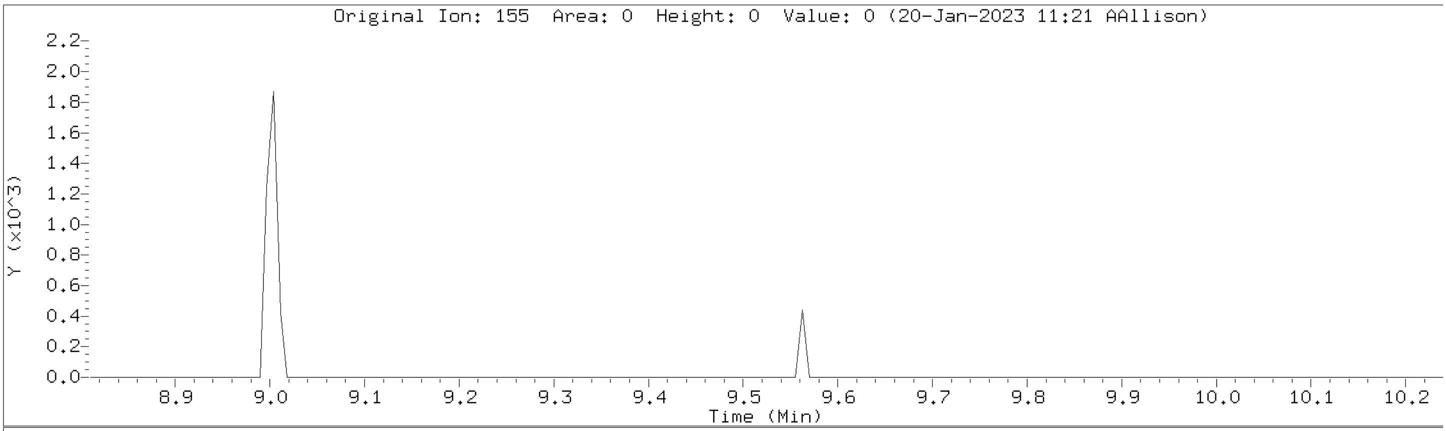




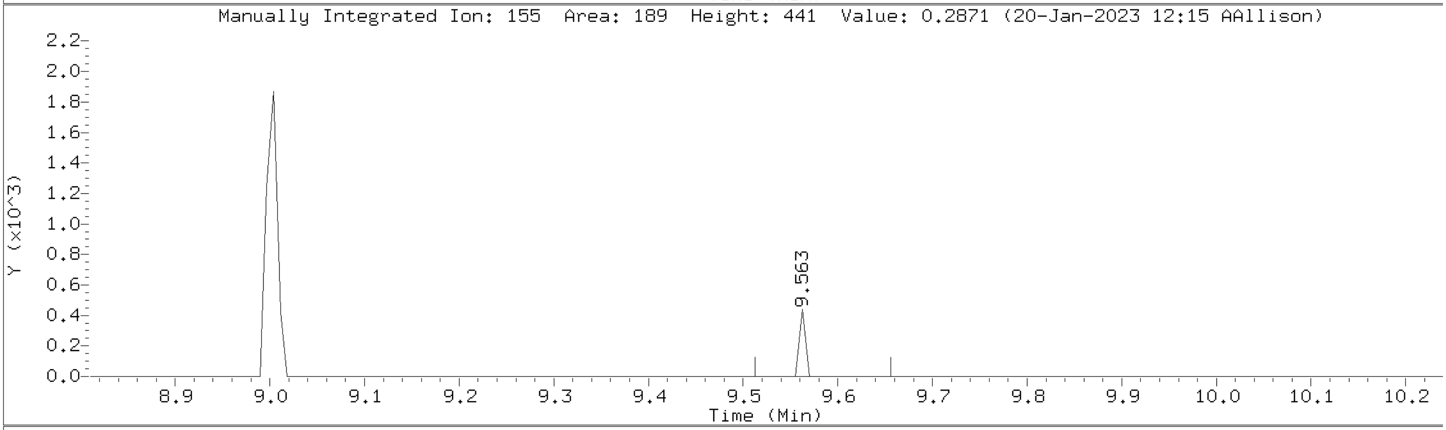
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dibromo-3-chloropropane   Review Code: NI
CAS Number: 96-12-8

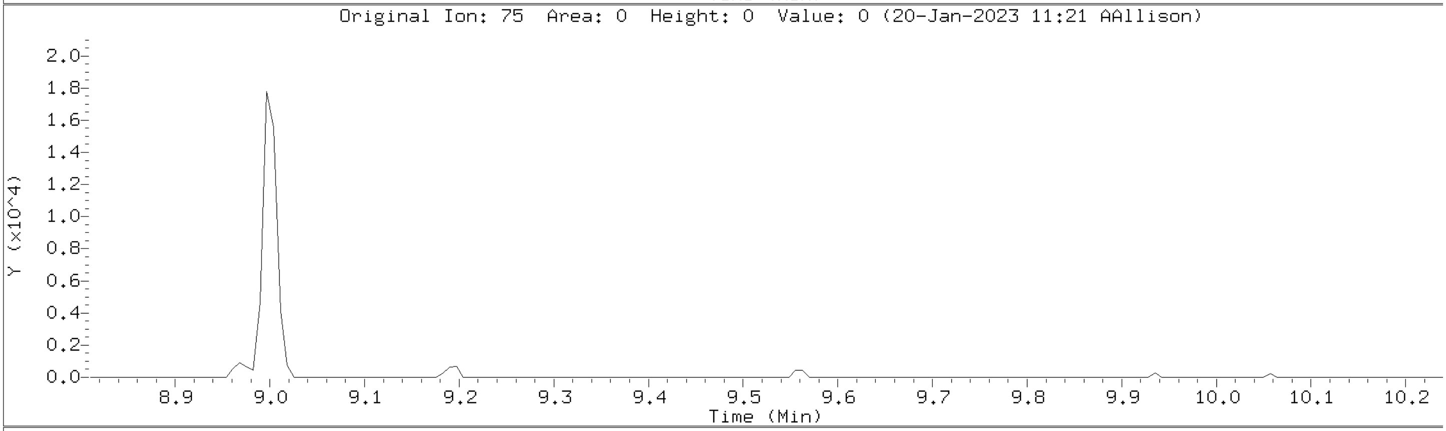
Original Ion: 155 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)



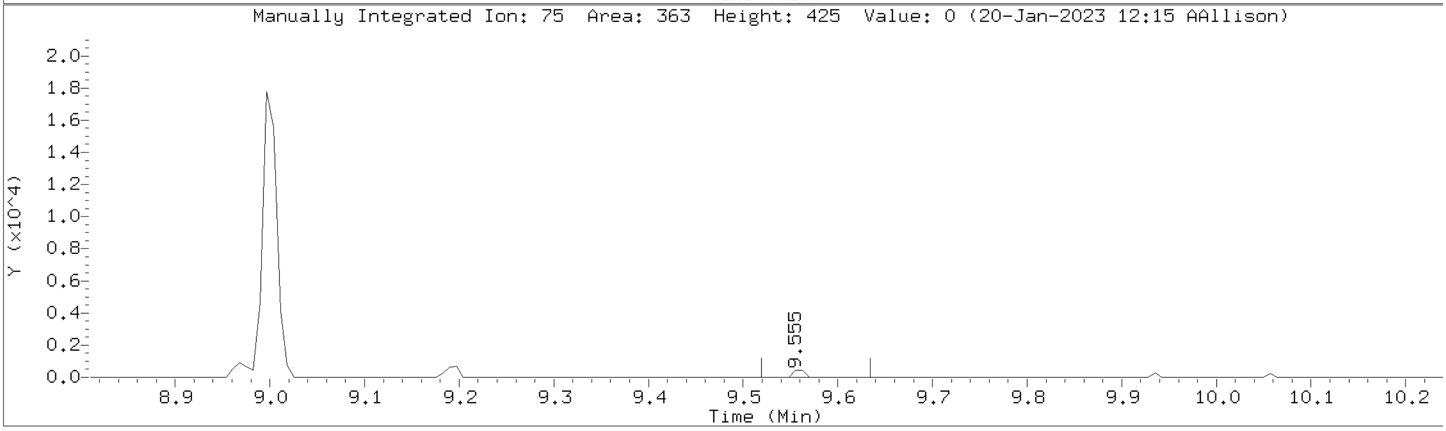
Manually Integrated Ion: 155 Area: 189 Height: 441 Value: 0.2871 (20-Jan-2023 12:15 AAllison)



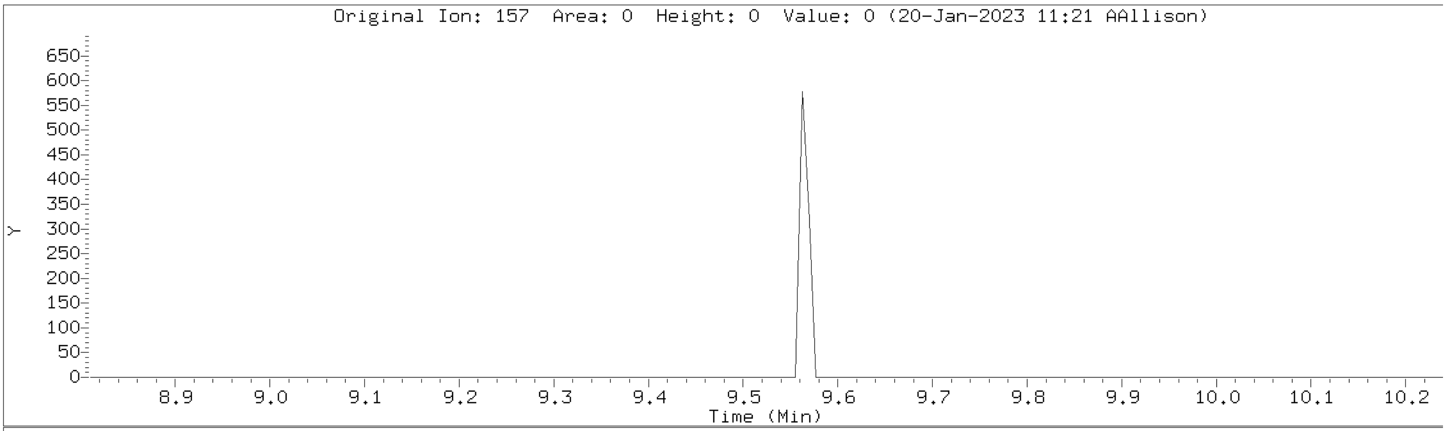
Original Ion: 75 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)

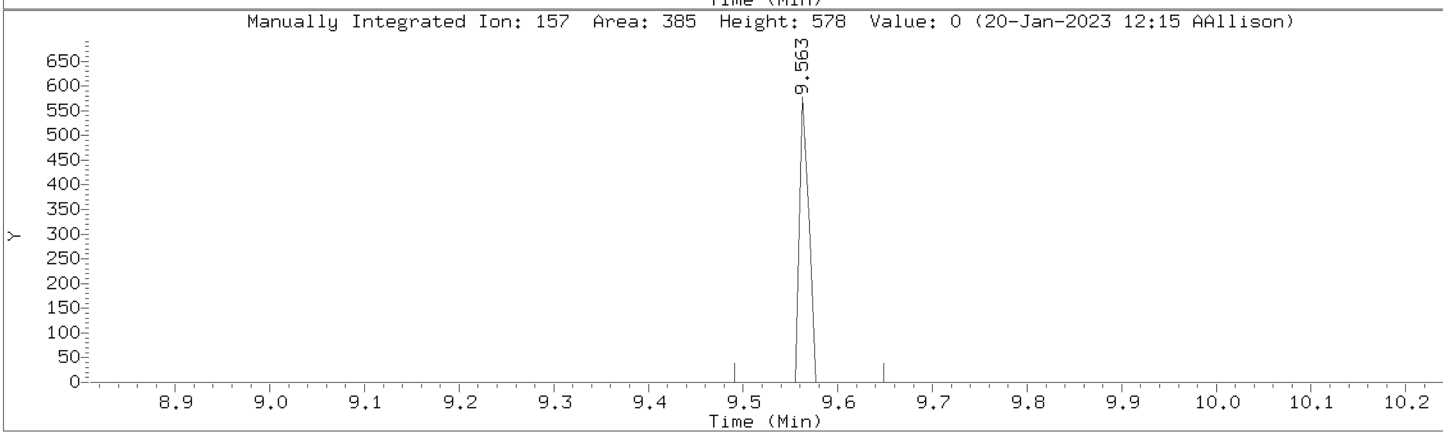


Manually Integrated Ion: 75 Area: 363 Height: 425 Value: 0 (20-Jan-2023 12:15 AAllison)



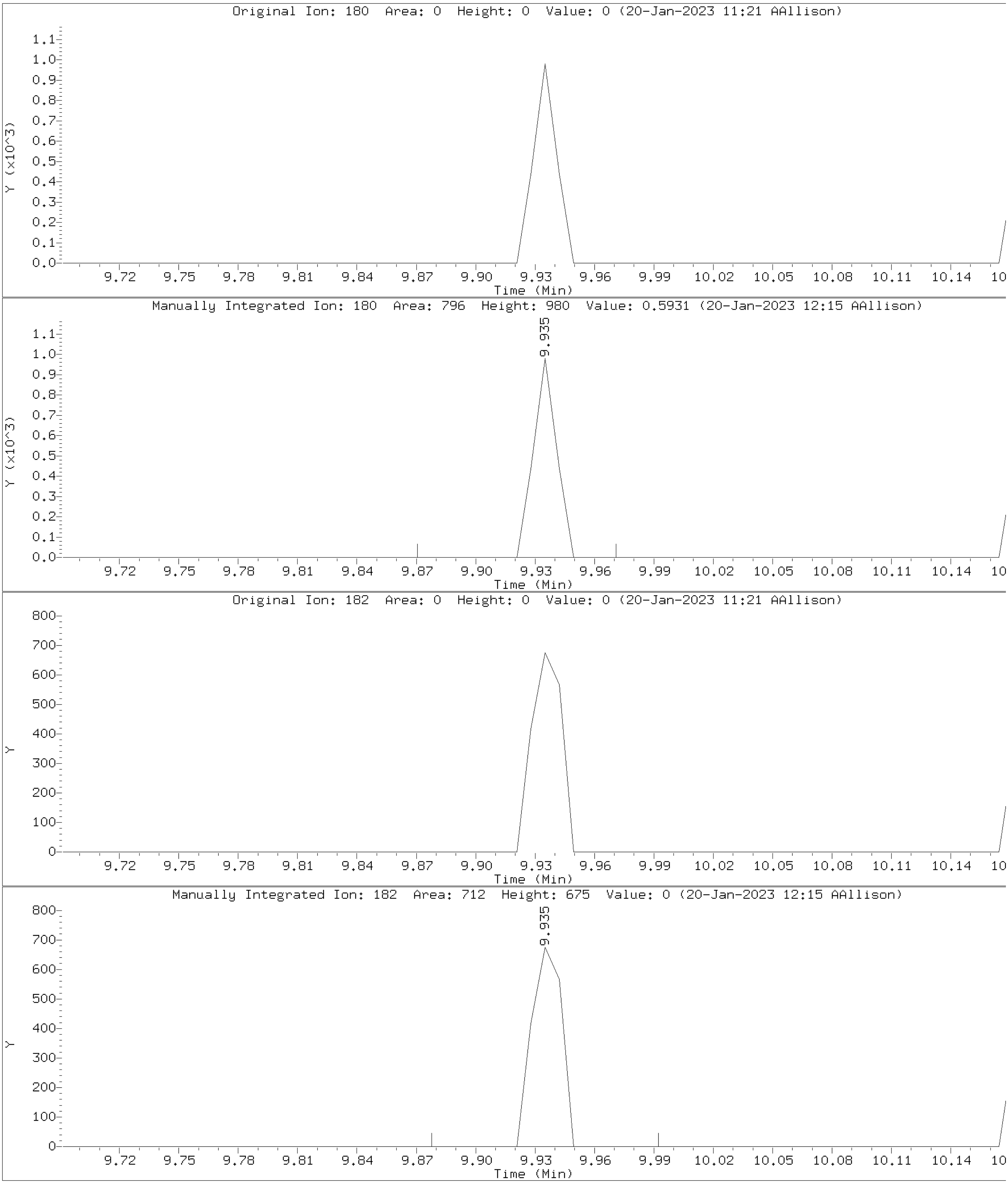
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1



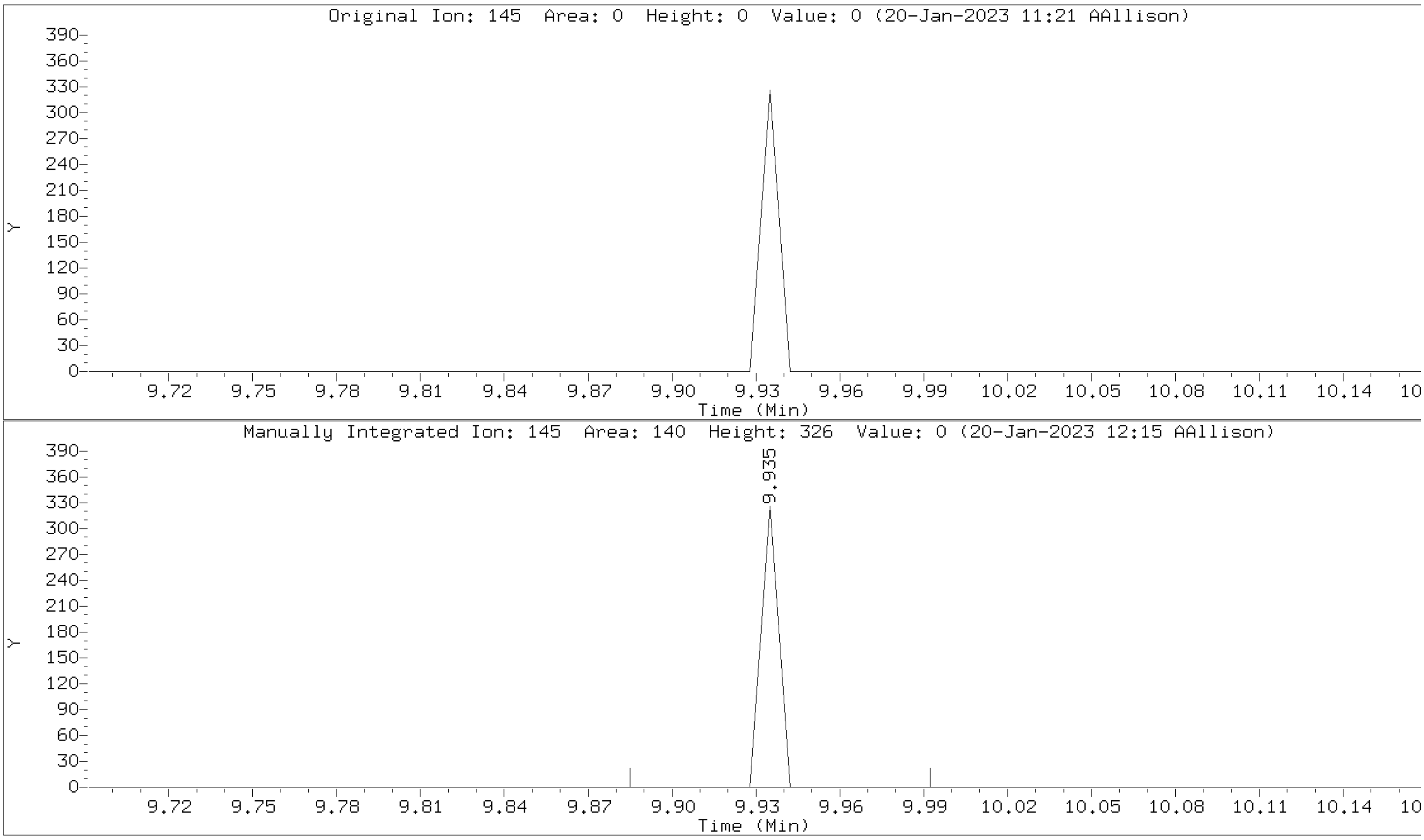


Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,4-Trichlorobenzene   Review Code: NI
CAS Number: 120-82-1

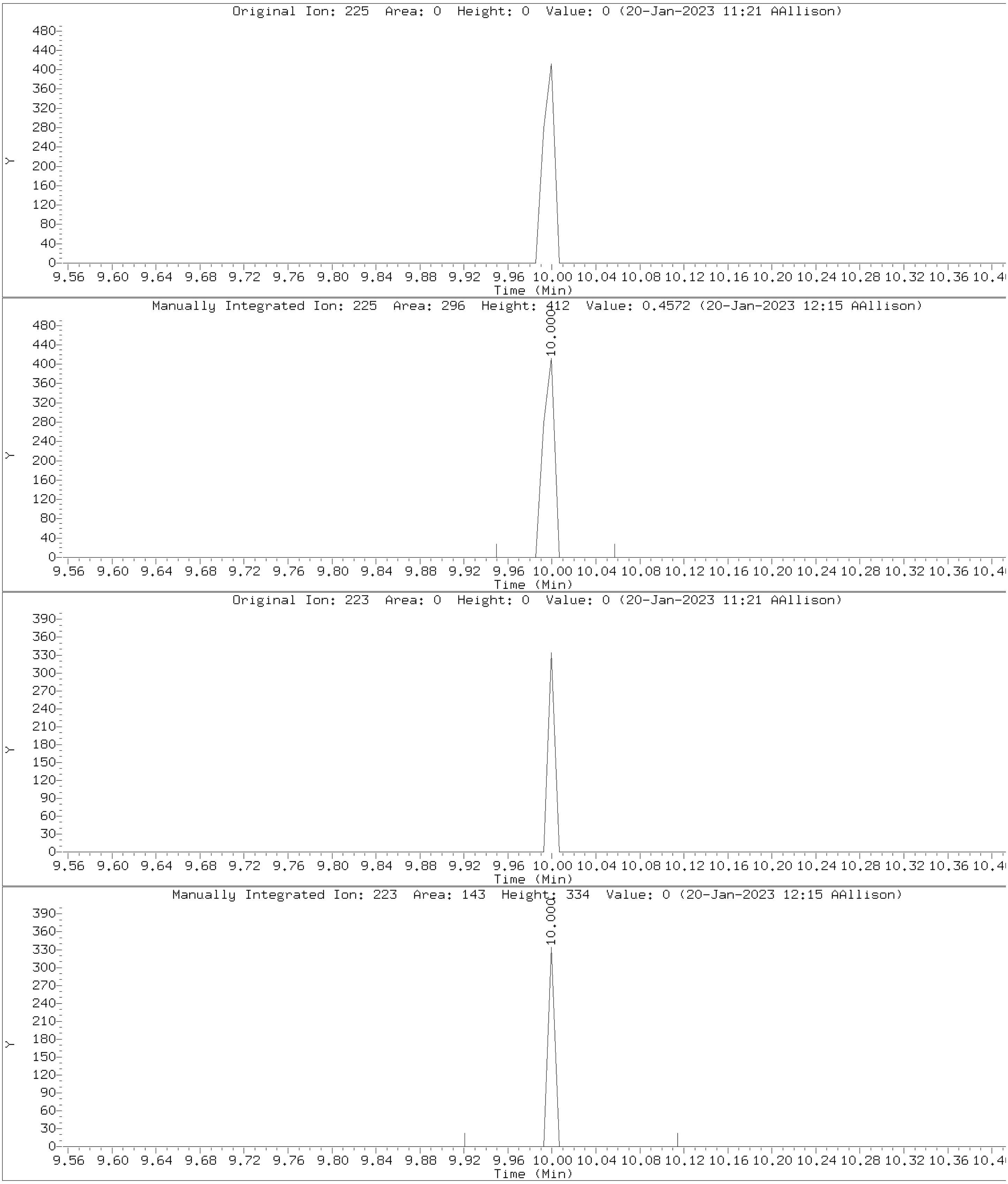


Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Hexachlorobutadiene   Review Code: NI
CAS Number: 87-68-3



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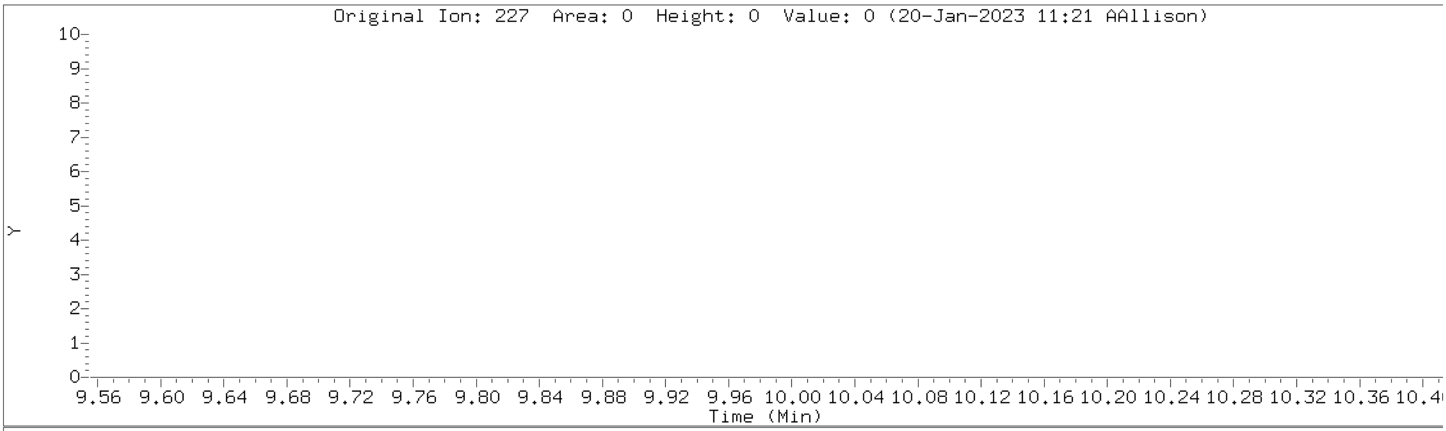
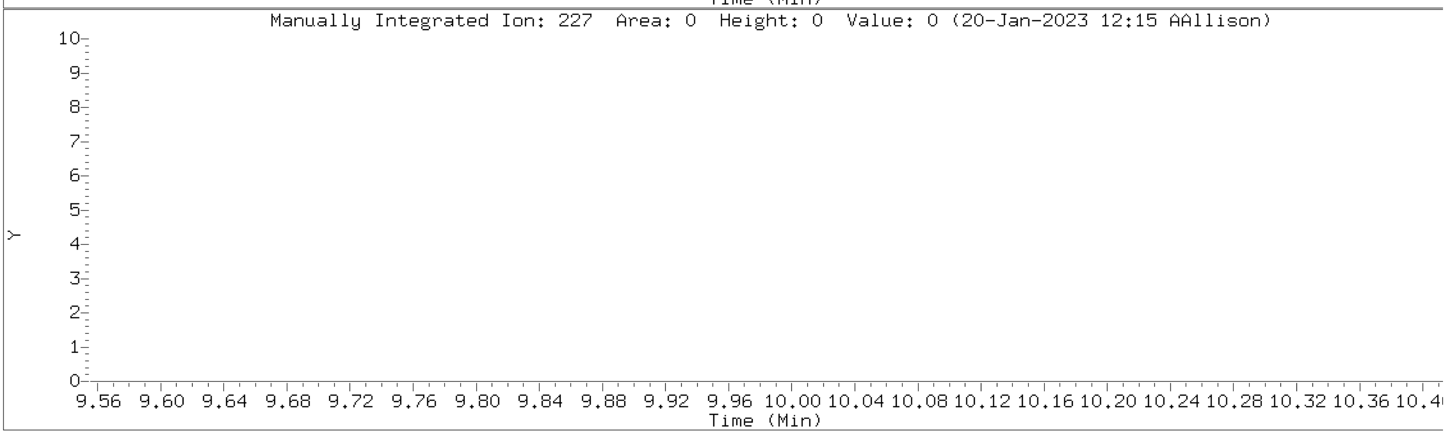
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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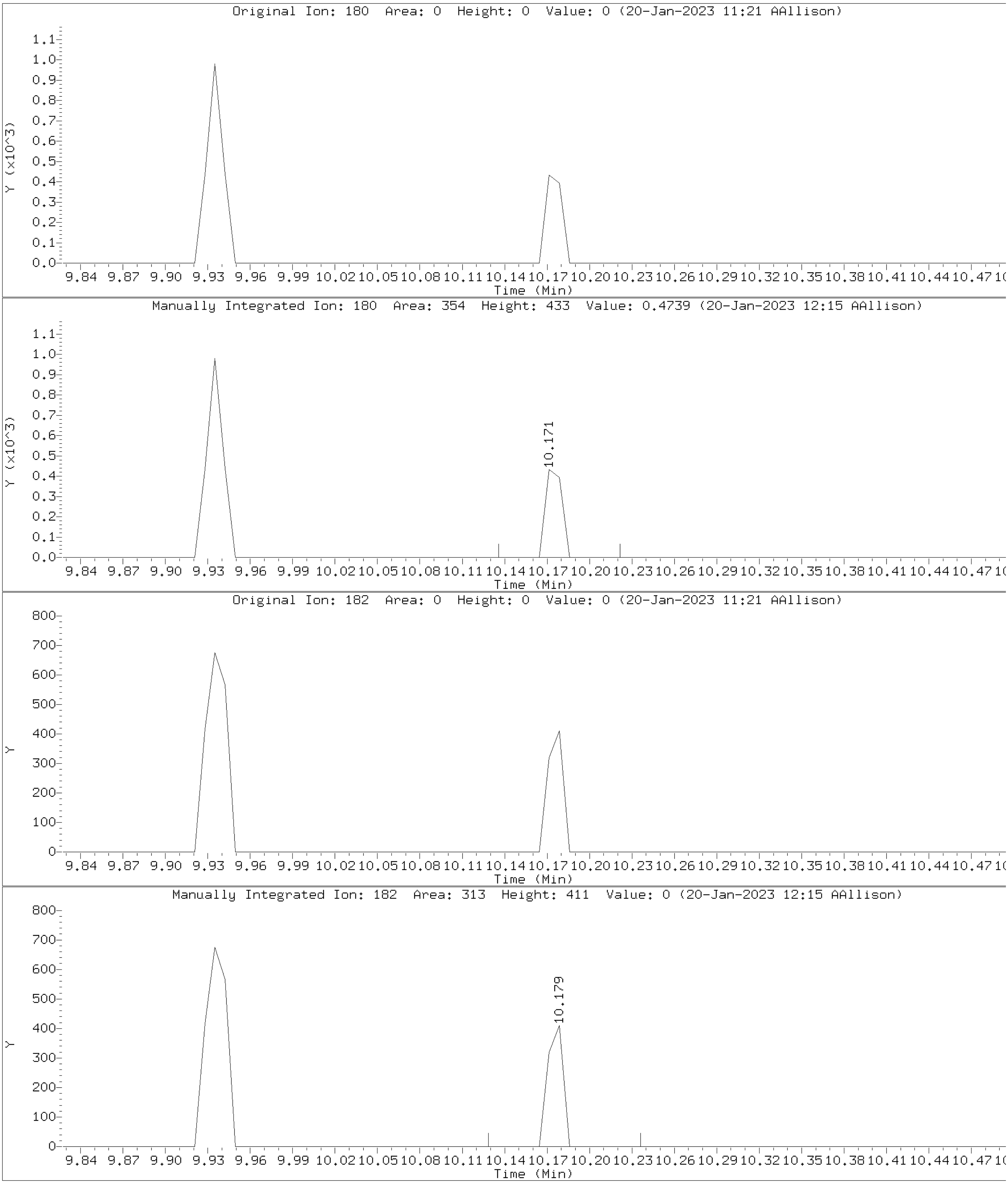
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,3-Trichlorobenzene   Review Code: NI
CAS Number: 87-61-6



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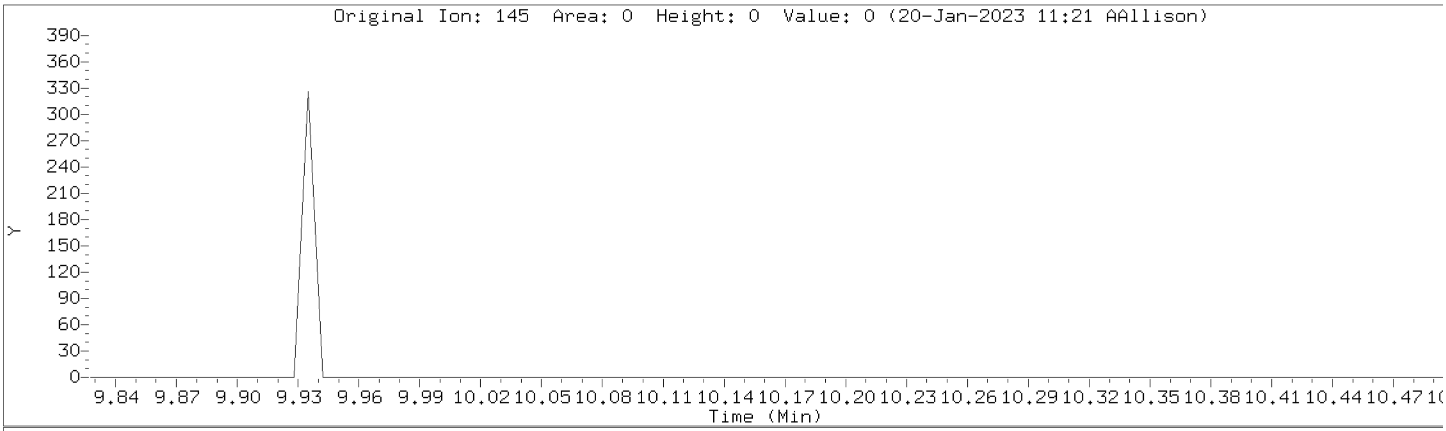
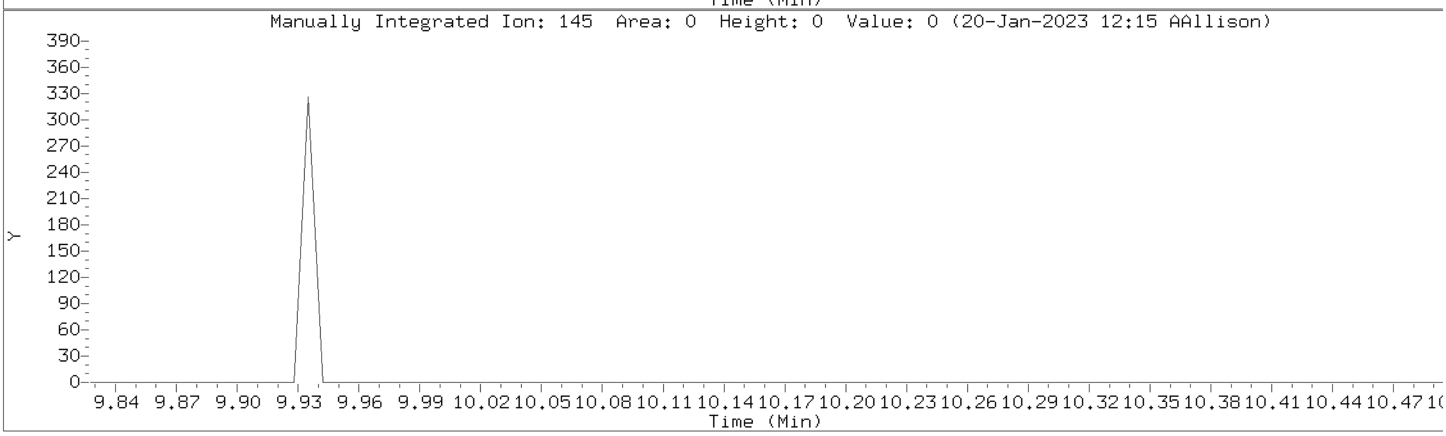
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1





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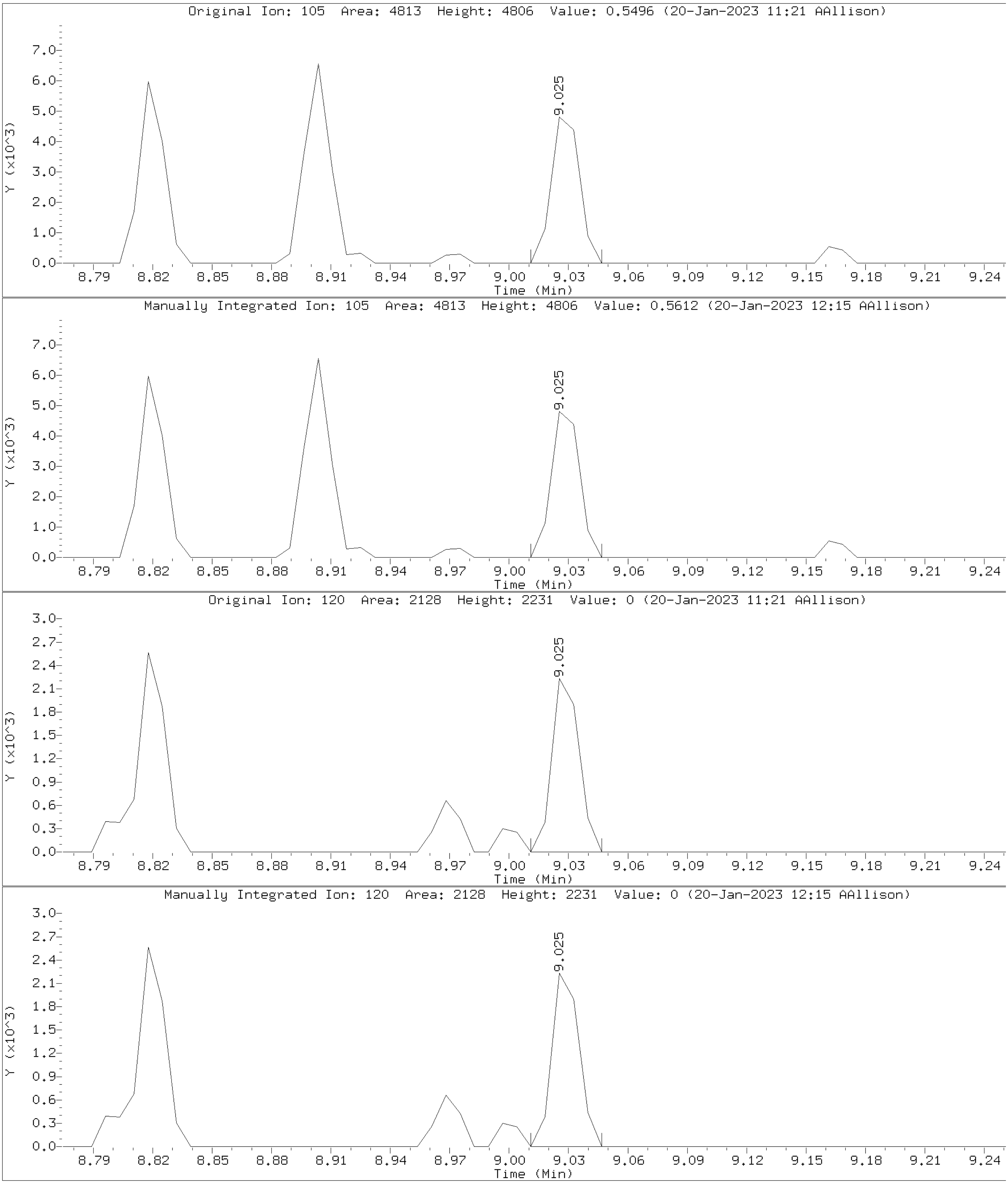
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: 1,2,3-Trimethylbenzene   Review Code: WP
CAS Number: 526-73-8



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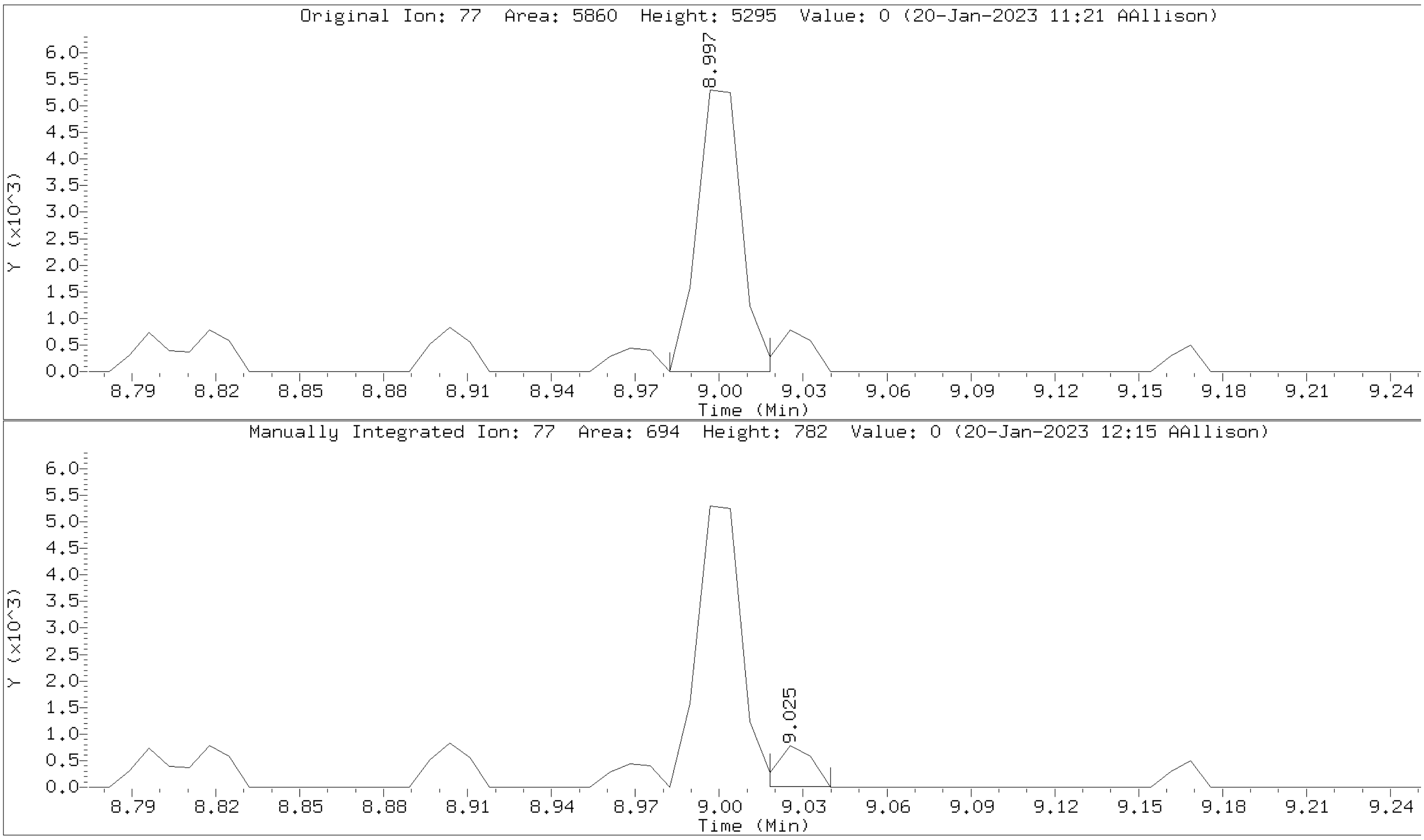
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1



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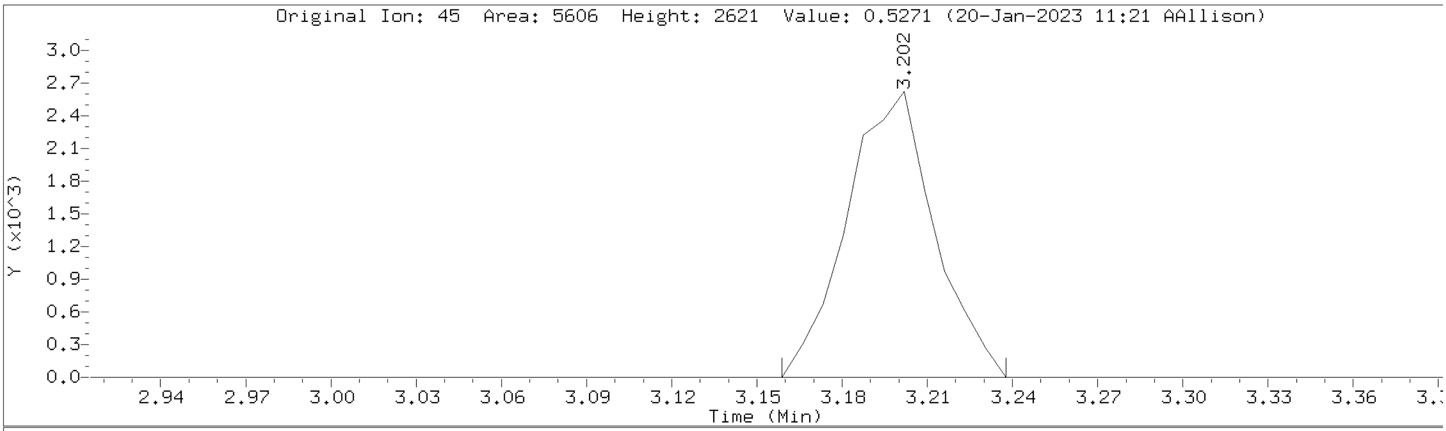
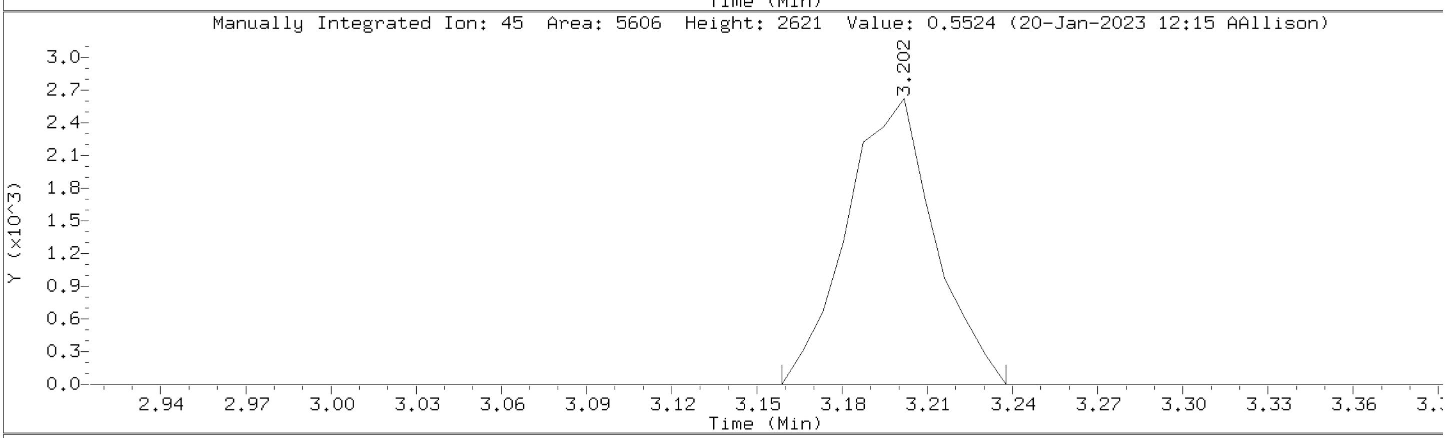
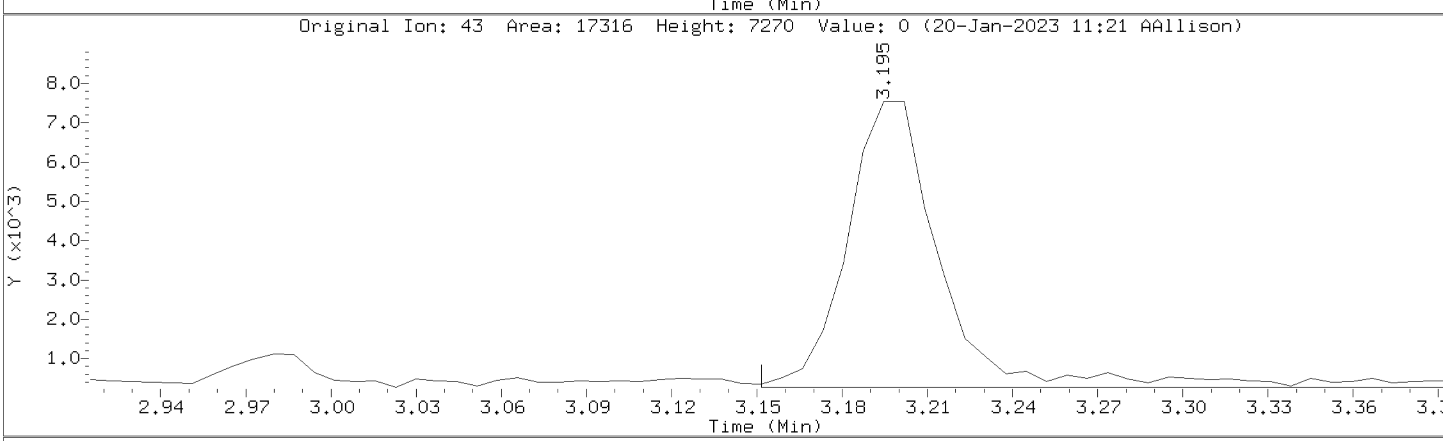
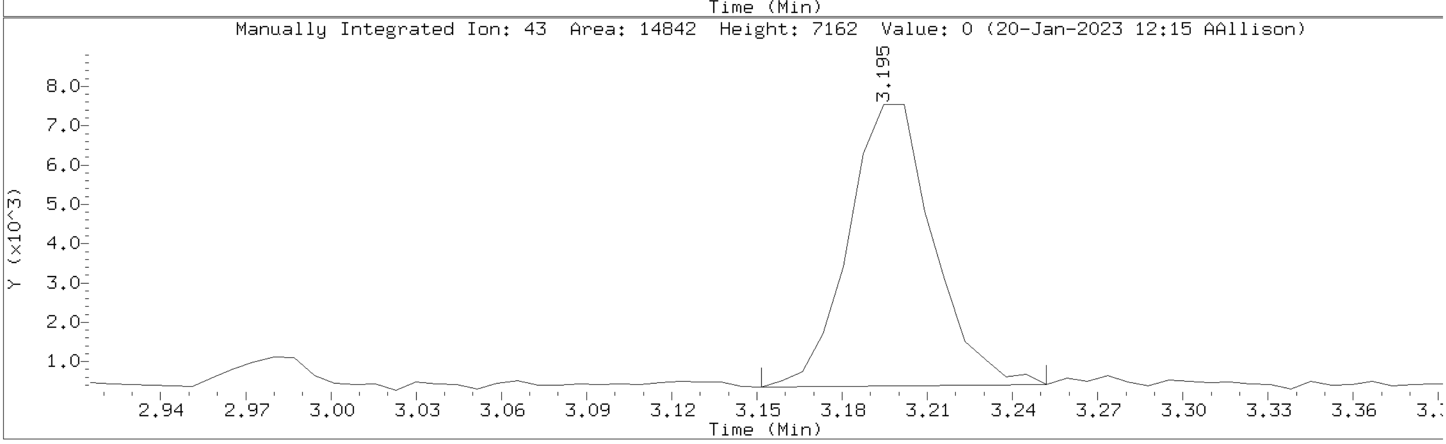
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Diisopropyl ether   Review Code: GT
CAS Number: 108-20-3



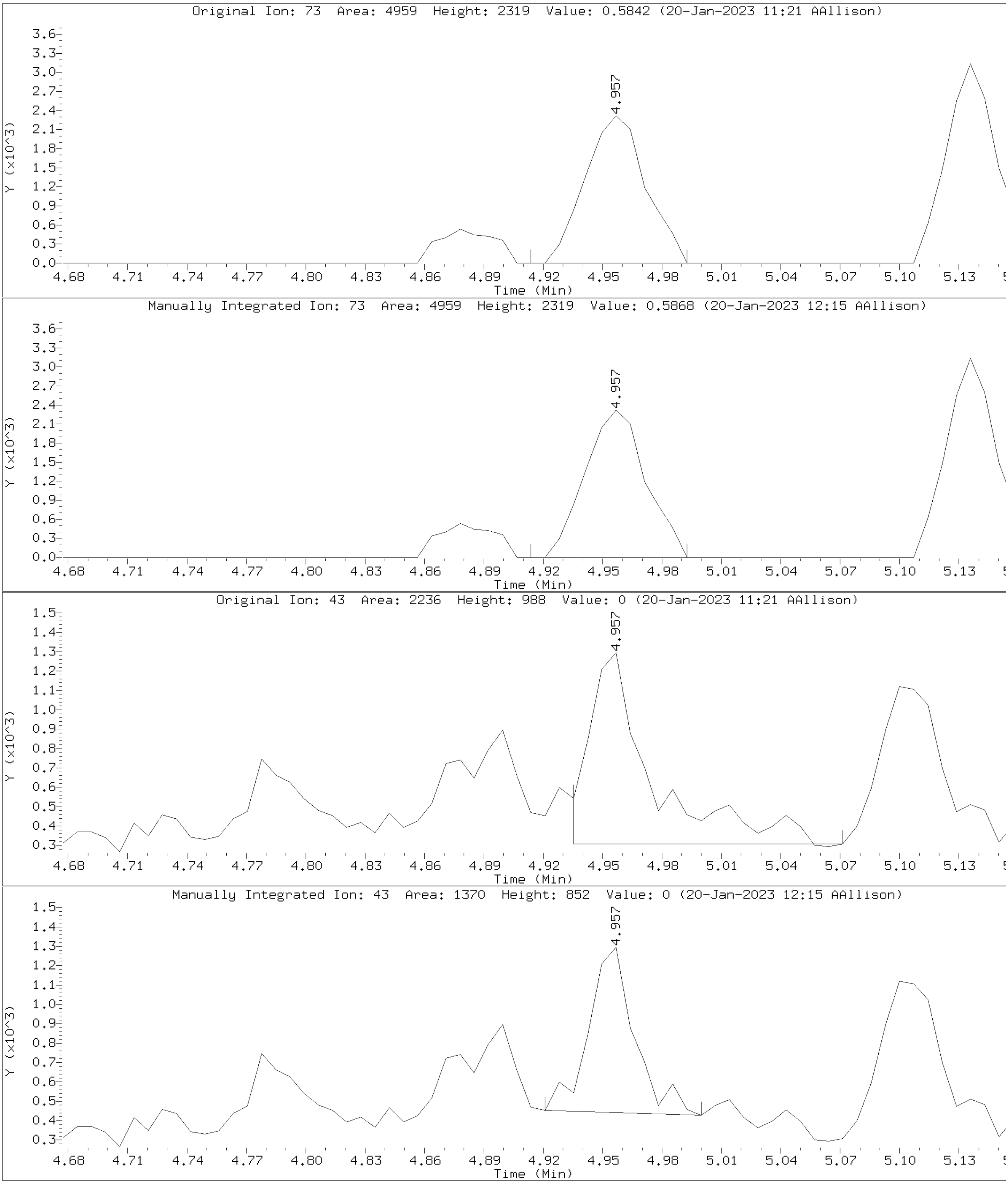






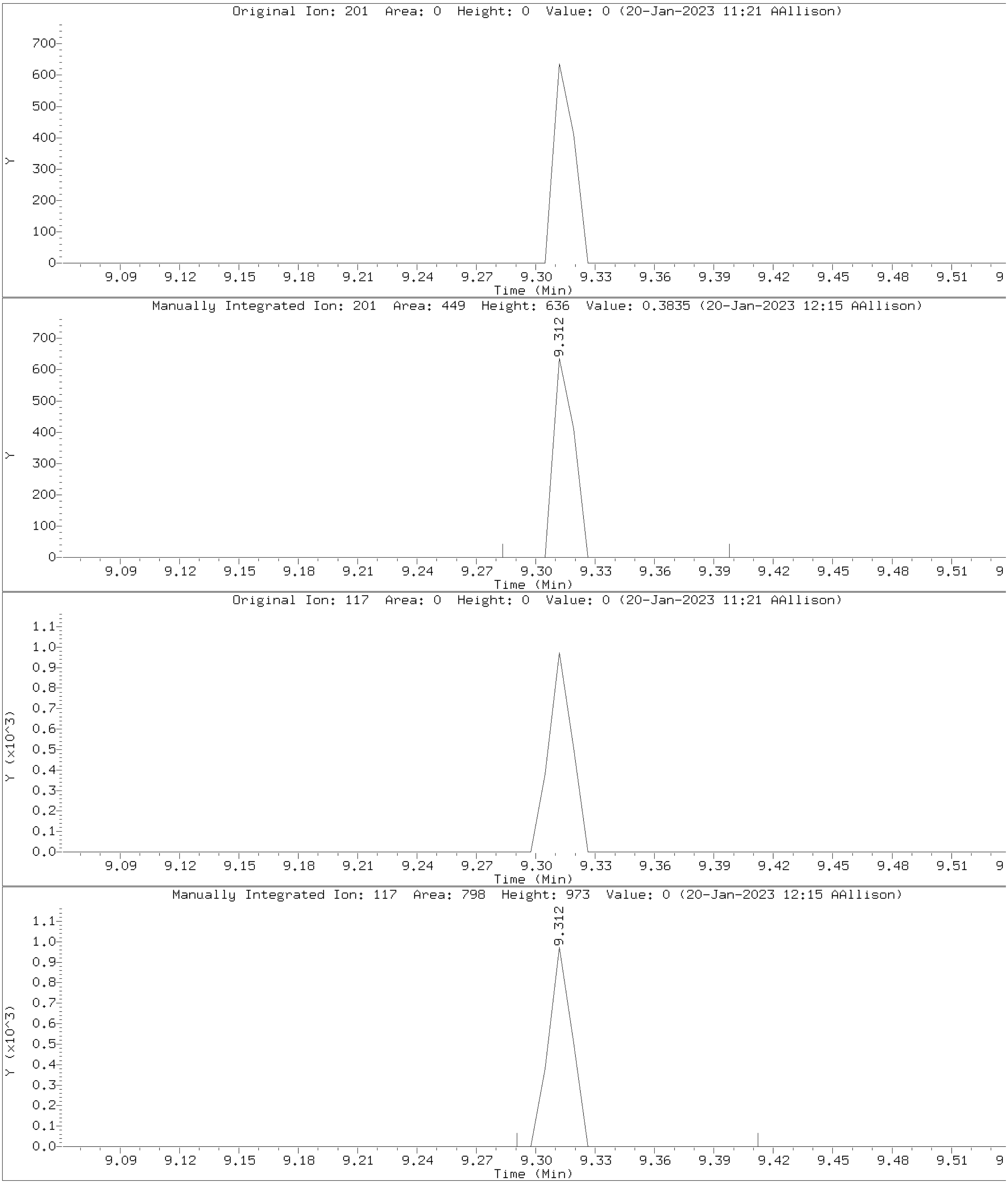
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: tert-Amylmethyl ether   Review Code: GT
CAS Number: 994-05-8



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a04.d
Injection Date: 19-JAN-2023 14:47
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL1

Compound: Hexachloroethane   Review Code: NI
CAS Number: 67-72-1



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a05.d
Lab Smp Id: 8260-CAL2 Client Smp ID: 8260-CAL2
Inj Date : 19-JAN-2023 15:17
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal2,335778:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.232	1.218	(0.240)	2750	1.00000	0.971(M)	NI
2 Chloromethane	50	1.432	1.397	(0.279)	3352	1.00000	1.01	
3 Vinyl Chloride	62	1.404	1.397	(0.273)	2961	1.00000	1.22(M)	LT
4 Bromomethane	94	1.611	1.597	(0.314)	2611	1.00000	0.961(M)	LT
5 Chloroethane	64	1.669	1.655	(0.325)	1553	1.00000	0.926	
6 Trichlorofluoromethane	101	1.819	1.805	(0.354)	2653	1.00000	0.891	
7 Diethyl ether	74	1.991	1.977	(0.388)	2170	1.00000	1.07	
8 Acrolein	56	2.106	2.085	(0.410)	13091	20.0000	18.6	
9 1,1,2trichlorotrifluoroethane	101	2.148	2.134	(0.418)	2556	1.00000	1.04	
10 1,1-Dichloroethene	96	2.163	2.149	(0.421)	2812	1.00000	0.990	
11 Acetone	43	2.206	2.192	(0.430)	8658	5.00000	5.54	
12 Iodomethane	142	2.285	2.271	(0.445)	1466	1.00000	0.691	
13 Carbon Disulfide	76	2.335	2.321	(0.455)	8981	1.00000	1.07(M)	LT
14 Acetonitrile	39	2.428	2.407	(0.473)	5493	5.00000	5.43(M)	WP
15 allyl chloride	41	2.428	2.407	(0.473)	8231	1.00000	1.05(M)	NI
16 Methyl Acetate	43	2.435	2.421	(0.474)	19092	5.00000	5.26	
17 Methylene Chloride	84	2.528	2.507	(0.492)	6940	1.00000	1.44(M)	LT
18 tert-Butyl Alcohol	59	2.607	2.586	(0.508)	3440	5.00000	5.32(M)	GT
19 Acrylonitrile	53	2.750	2.722	(0.536)	8756	5.00000	5.24	
20 Methyl-tert-butyl ether	73	2.743	2.722	(0.534)	8631	1.00000	1.03	
21 1,2-Dichloroethene (trans)	96	2.750	2.729	(0.536)	3472	1.00000	1.04	
22 n-Hexane	57	2.972	2.951	(0.579)	6185	1.00000	1.18	
23 1,1-Dichloroethane	63	3.151	3.130	(0.614)	5033	1.00000	1.04	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.194	3.166	(0.622)	29842	4.00000	3.97	
	25 Diisopropyl ether	45	3.194	3.166	(0.622)	10387	1.00000	1.02(M)	GT
	26 chloroprene	53	3.230	3.209	(0.629)	4691	1.00000	1.12	
	27 Ethyl-tert-butyl ether	59	3.603	3.567	(0.702)	8946	1.00000	1.06	
	28 2,2-Dichloropropane	77	3.796	3.768	(0.739)	4628	1.00000	1.16	
	29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.741)	4194	1.00000	1.11(M)	LT
	30 2-Butanone	43	3.853	3.811	(0.750)	14111	5.00000	5.49	
	31 Ethyl Acetate	88	3.911	3.868	(0.761)	667	5.00000	3.60(M)	NI
	32 Propionitrile	54	3.946	3.911	(0.768)	4000	5.00000	5.45	
	33 Methacrylonitrile	41	4.111	4.090	(0.801)	24792	5.00000	5.72(M)	LT
	34 Bromochloromethane	49	4.104	4.075	(0.799)	2675	1.00000	1.06	
	35 Tetrahydrofuran	42	4.168	4.133	(0.812)	11259	5.00000	5.24	
	36 Chloroform	83	4.204	4.176	(0.819)	5198	1.00000	1.01	
$	37 Dibromofluoromethane (S)	113	4.391	4.362	(0.855)	118443	50.0000	49.8	
	38 1,1,1-Trichloroethane	97	4.398	4.370	(0.856)	4549	1.00000	1.04	
	39 Cyclohexane	56	4.441	4.413	(0.865)	5776	1.00000	1.05	
	40 Carbon Tetrachloride	117	4.577	4.549	(0.891)	3469	1.00000	0.958	
	41 1,1-Dichloropropene	75	4.591	4.563	(0.894)	3690	1.00000	1.07	
	42 Isobutyl alcohol	43	4.784	4.749	(0.932)	1165	5.00000	5.27(M)	GT
	43 Benzene	78	4.827	4.799	(0.940)	11643	1.00000	1.04	
	44 1,2-Dichloroethane	62	4.863	4.842	(0.947)	3937	1.00000	1.07	
	45 2,2,4-Trimethylpentane	57	4.892	4.864	(0.953)	8596	1.00000	1.04	
	46 tert-Amylmethyl ether	73	4.949	4.928	(0.964)	8815	1.00000	1.01(M)	GT
*	47 Fluorobenzene	96	5.135	5.107	(1.000)	469320	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.074)	2864	1.00000	1.01	
	49 Methylcyclohexane	55	5.694	5.673	(1.109)	4927	1.00000	1.08	
	50 1,2-Dichloropropane	63	5.773	5.745	(1.124)	3199	1.00000	1.07(M)	NI
	51 Dibromomethane	93	5.888	5.867	(1.146)	1783	1.00000	1.00	
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	5.902	5.881	(1.149)	2941	1.00000	1.08(M)	GT
	54 Bromodichloromethane	83	6.052	6.031	(1.179)	3622	1.00000	1.02(M)	NI
	55 2-Chloroethyl vinyl ether	63	6.368	6.347	(0.822)	11219	5.00000	5.33	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	4342	1.00000	0.990	
	57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	26603	5.00000	5.32	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	447065	50.0000	50.9	
	59 Toluene	91	6.769	6.748	(0.874)	13796	1.00000	1.06	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	4464	1.00000	1.07	
	61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	4529	1.00000	1.09(M)	NI
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	2205	1.00000	1.07	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	3068	1.00000	1.04	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	4059	1.00000	0.987	
	65 2-Hexanone	43	7.284	7.271	(0.941)	22499	5.00000	5.47	
	66 Dibromochloromethane	129	7.378	7.364	(0.953)	2688	1.00000	0.955	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	2784	1.00000	1.04	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	330635	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	7668	1.00000	1.000	
	70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	2777	1.00000	1.04	
	71 Ethylbenzene	106	7.822	7.815	(1.010)	4301	1.00000	0.990	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	5584	1.00000	1.08	
	73 o-Xylene	106	8.122	8.116	(1.049)	5093	1.00000	1.02	
	74 Styrene	104	8.137	8.122	(1.051)	8715	1.00000	1.01	
	75 Bromoform	173	8.251	8.238	(0.916)	2015	1.00000	1.02(M)	NI
	76 Isopropylbenzene	105	8.323	8.316	(1.075)	13426	1.00000	1.04	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	136931	50.0000	49.4	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	4448	1.00000	0.990	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	3879	1.00000	1.06(M)	NI
80 1,2,3-Trichloropropane	110	8.524	8.516	(0.947)	1215	1.00000	1.07	
81 trans-1,4-Dichloro-2-butene	53	8.524	8.516	(1.101)	1528	1.00000	1.10(M)	WP
82 n-Propylbenzene	91	8.545	8.538	(0.949)	16258	1.00000	1.09	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	8711	1.00000	1.08	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	9957	1.00000	1.05	
85 4-Chlorotoluene	126	8.653	8.638	(0.961)	3055	1.00000	1.06	
86 tert-Butylbenzene	119	8.796	8.789	(0.977)	9859	1.00000	1.07(M)	LT
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.979)	9618	1.00000	1.01	
88 sec-Butylbenzene	105	8.903	8.897	(0.989)	12352	1.00000	1.07	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.996)	5066	1.00000	1.02	
90 p-Isopropyltoluene	119	8.968	8.961	(0.996)	9581	1.00000	1.02	
* 91 1,4-Dichlorobenzene-d4	152	9.004	8.997	(1.000)	146750	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.001)	5489	1.00000	1.06	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.002)	9734	1.00000	1.08	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	8594	1.00000	1.07	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.021)	4181	1.00000	1.02	
96 Hexachloroethane	201	9.312	9.312	(1.034)	1156	1.00000	0.976	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.062)	740	1.00000	1.06	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.103)	1450	1.00000	1.02	
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	705	1.00000	1.11(M)	NI
100 Naphthalene	128	10.064	10.064	(1.118)	4705	1.00000	1.07	
101 1,2,3-Trichlorobenzene	180	10.178	10.179	(1.130)	847	1.00000	1.05	
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

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).
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\50mvda.i\a011923cal.b\a05.d

Page 4

Date : 19-JAN-2023 15:17

Client ID: 8260-CAL2

Instrument: 50mvda.i

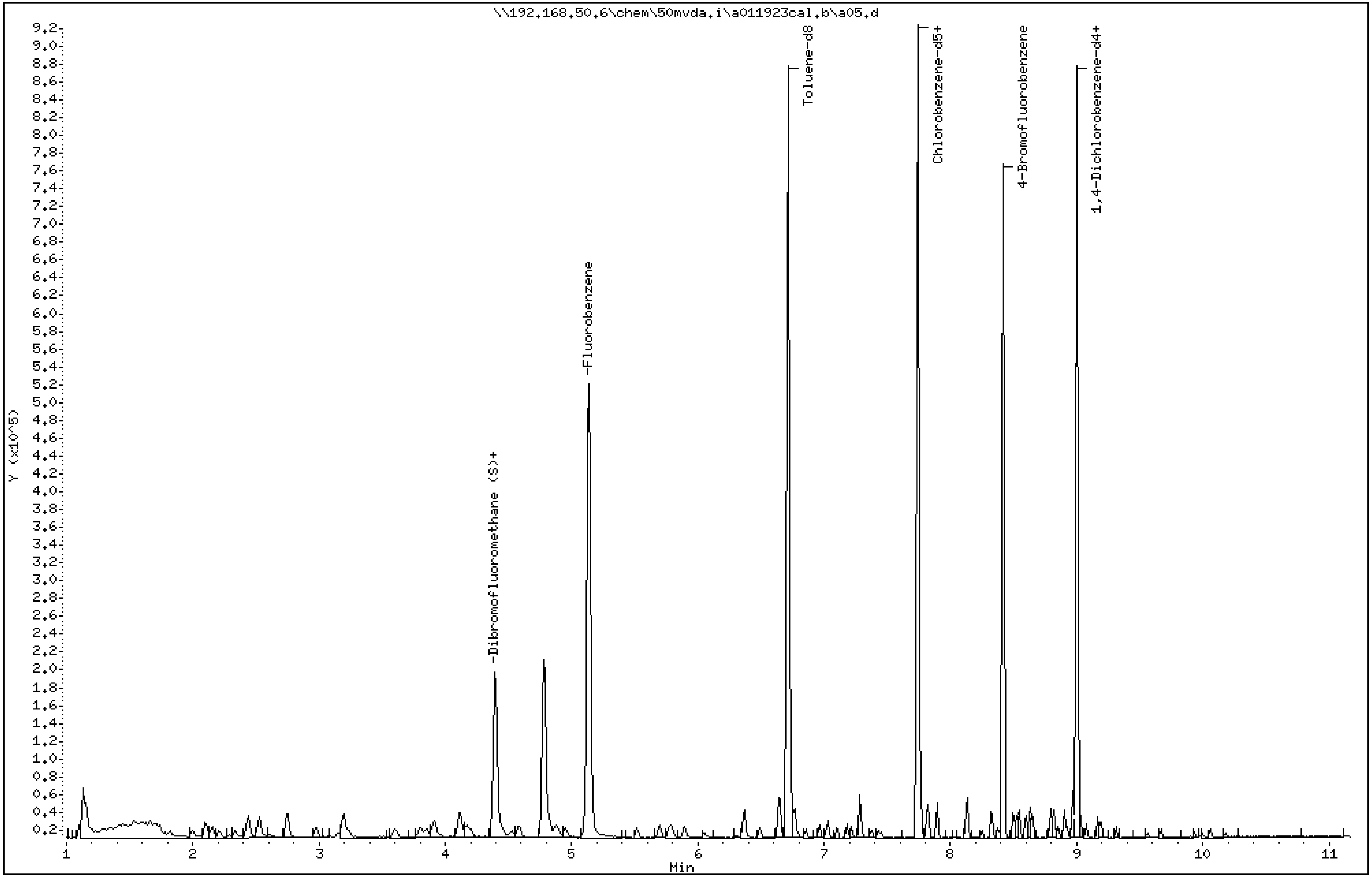
Sample Info: 8260-CAL2,335778:0

Purge Volume: 5.0

Operator: ala

Column phase: DB-624

Column diameter: 0.18



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Date : 19-JAN-2023 15:17

Client ID: 8260-CAL2

Instrument: 50mvda.i

Sample Info: 8260-CAL2,335778:0

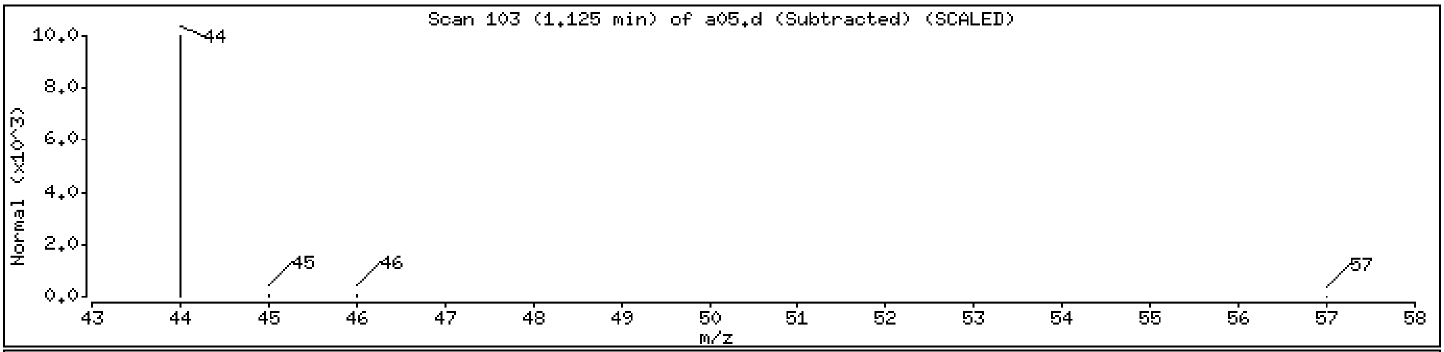
Purge Volume: 5.0

Operator: ala

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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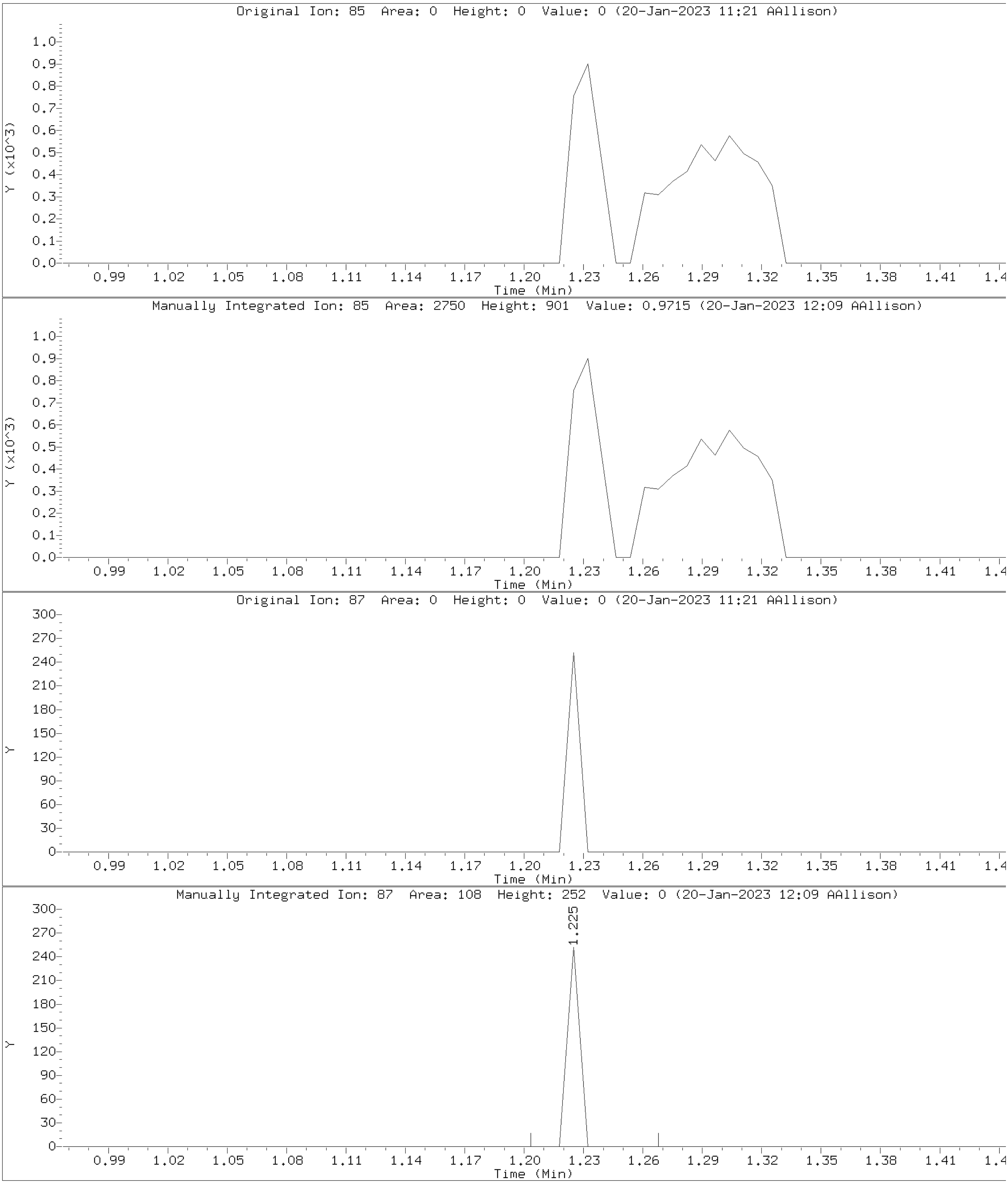
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane   Review Code: NI
CAS Number: 460-00-4



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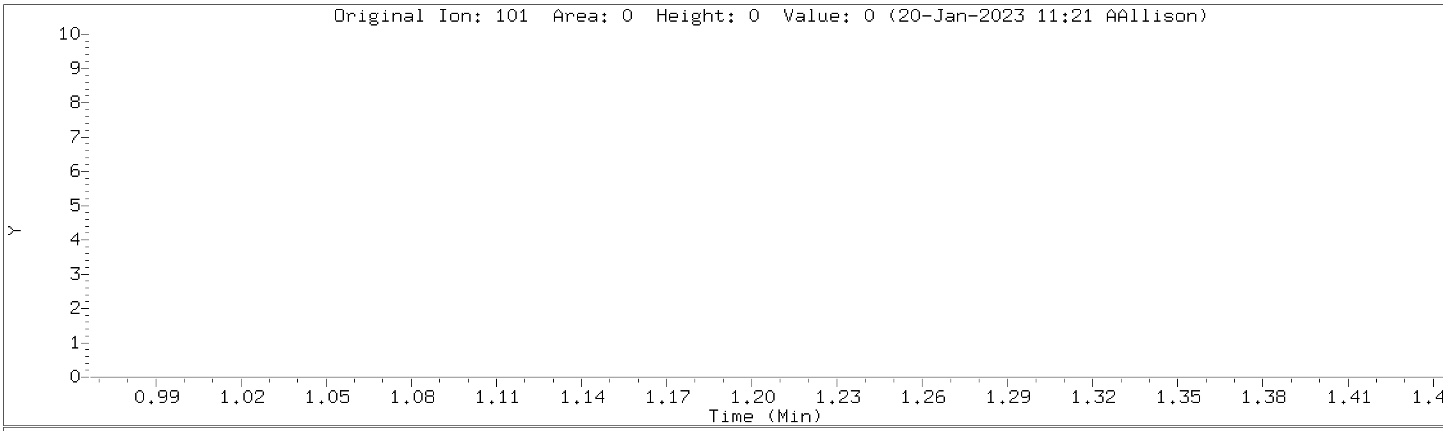
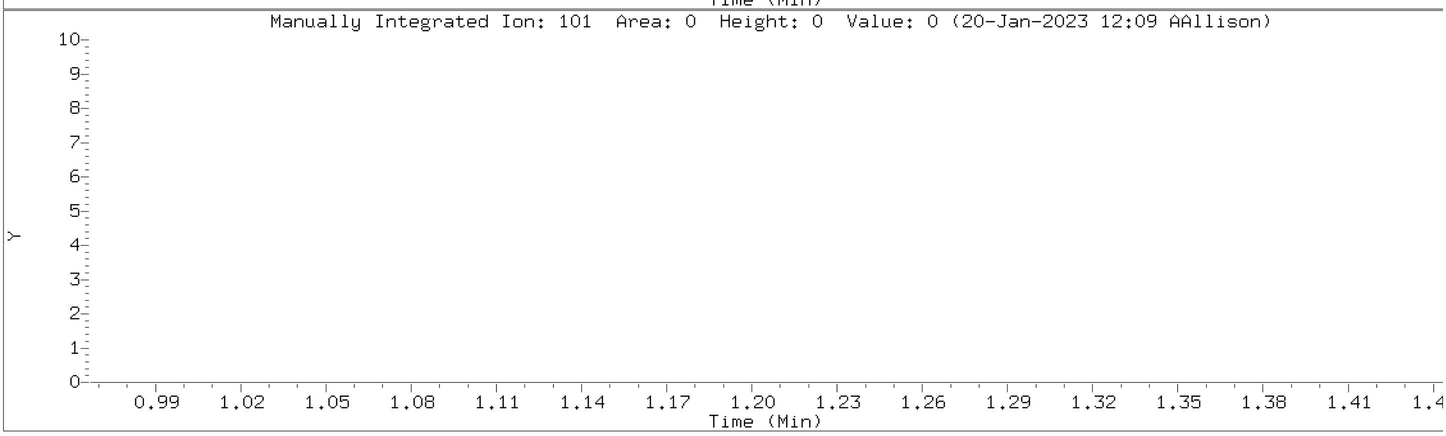
Lab Sample ID: 8260-CAL2





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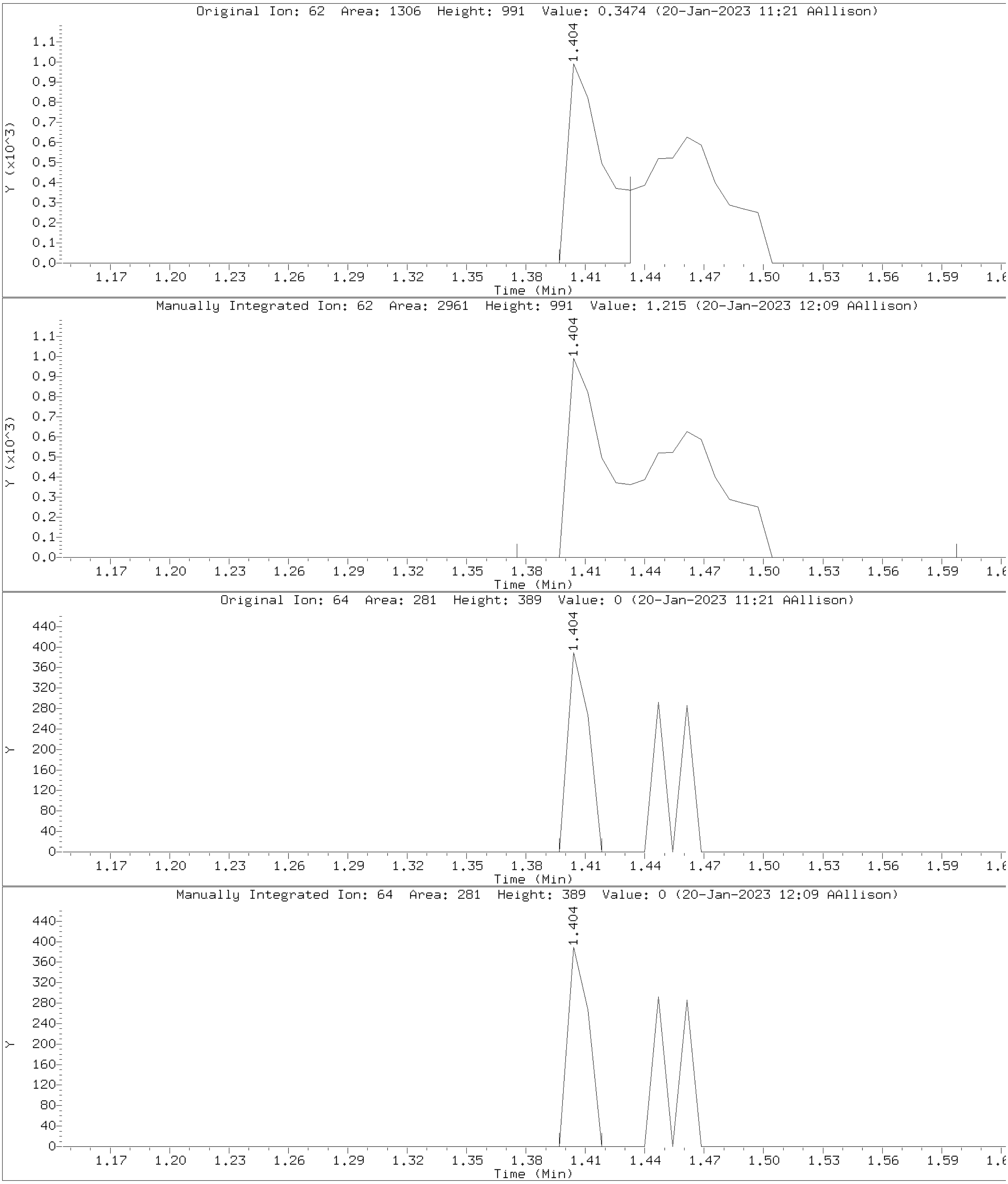
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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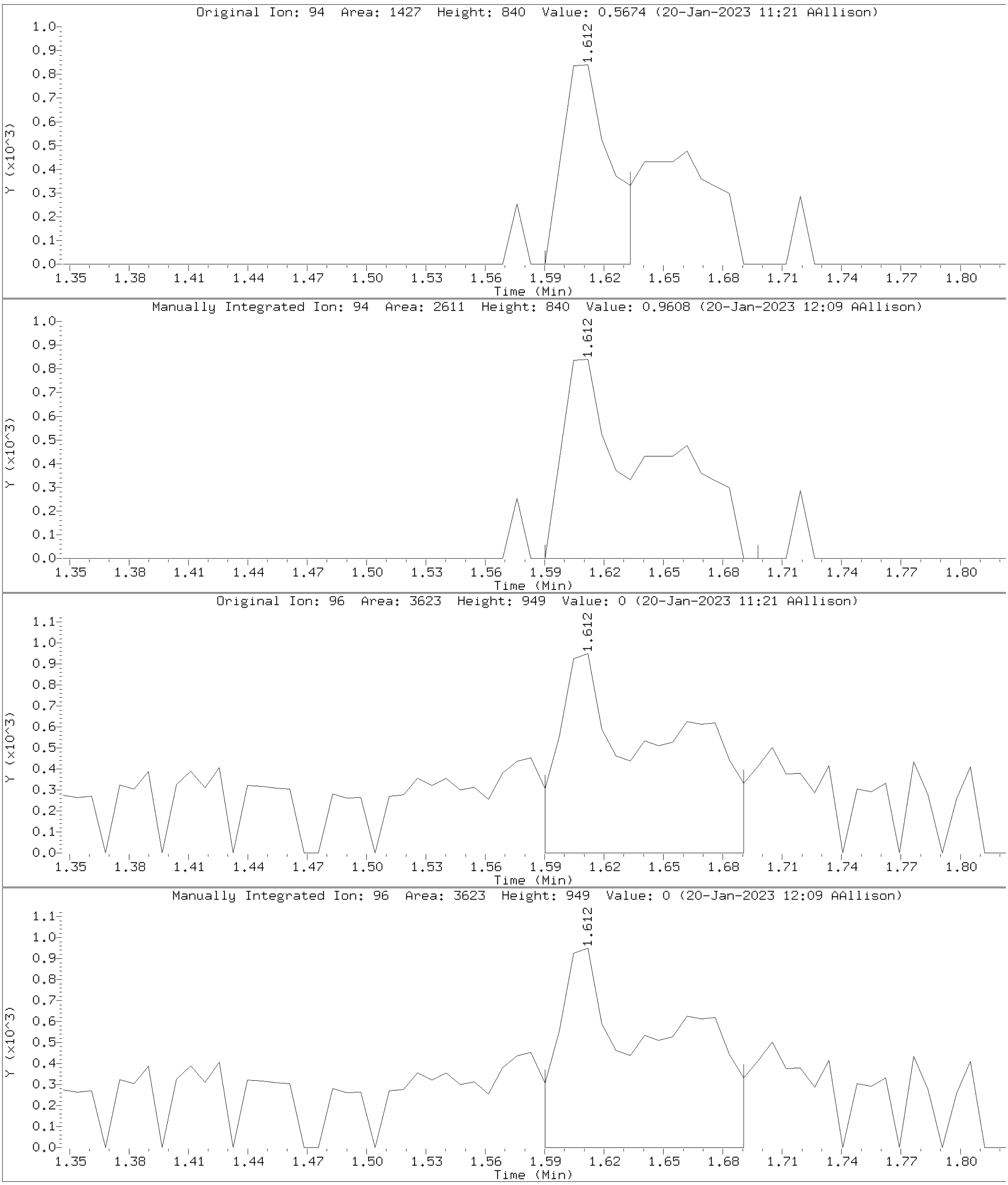
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9



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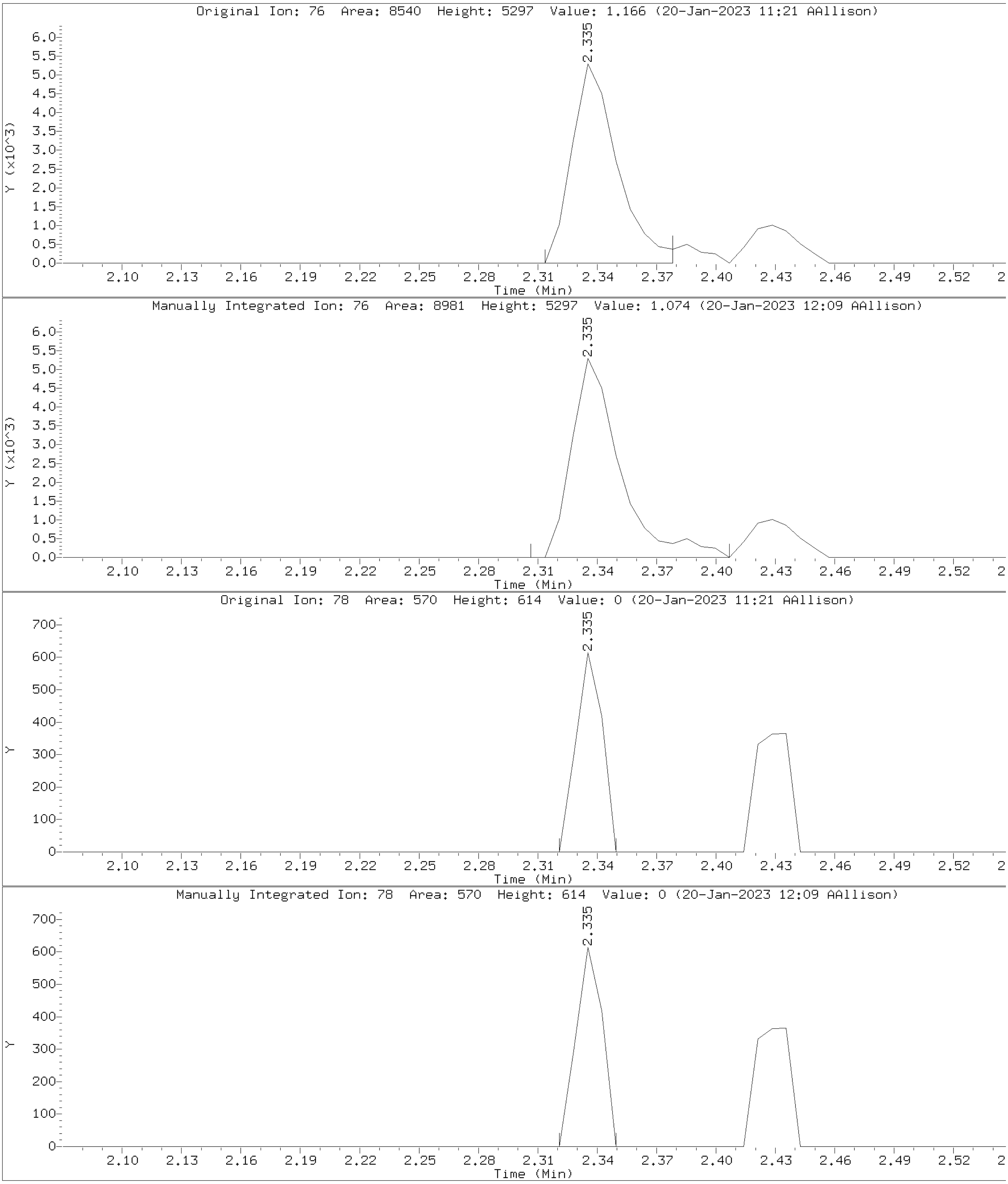
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Disulfide Review Code: LT
CAS Number: 75-15-0



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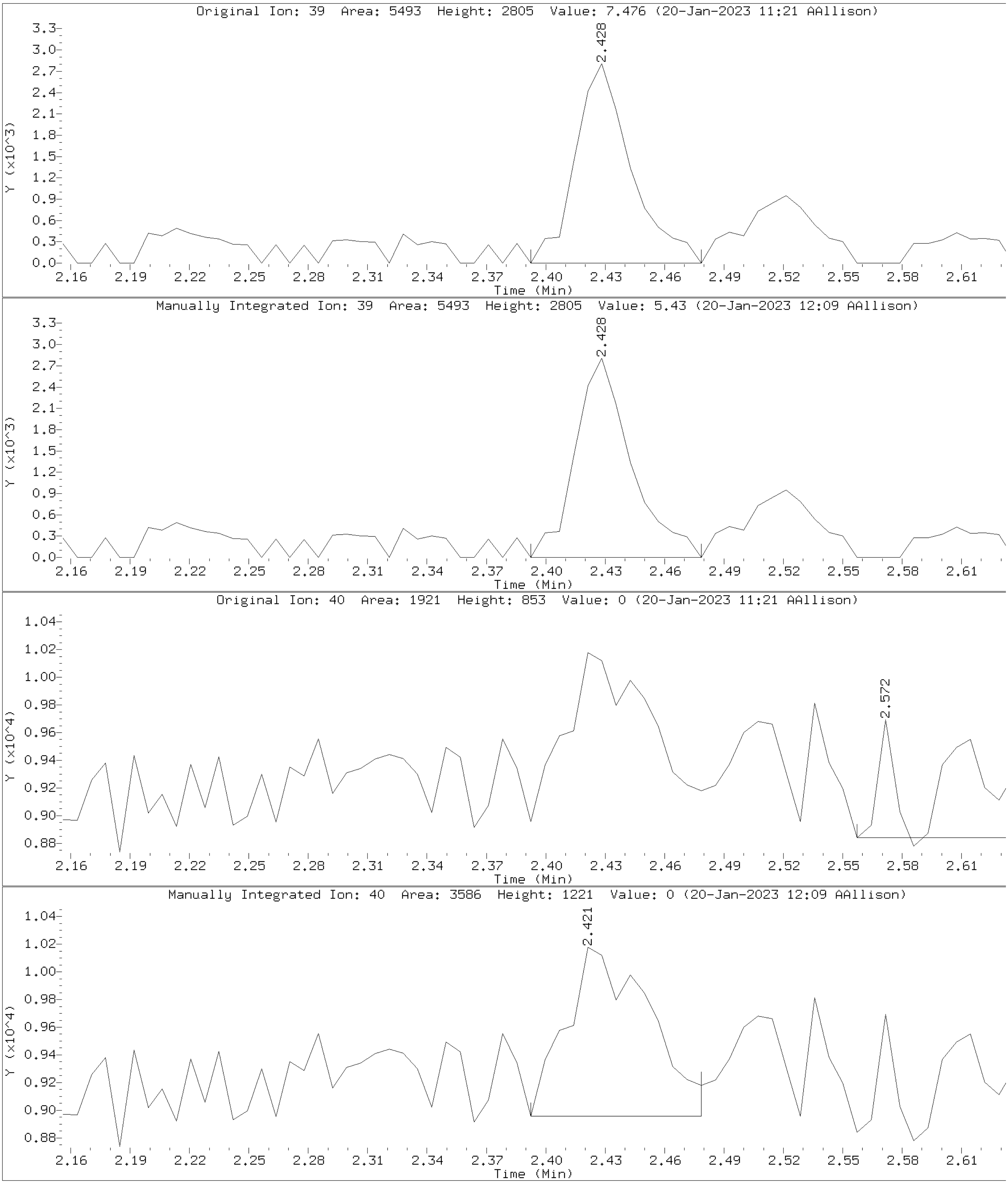
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile   Review Code: WP
CAS Number: 75-05-8



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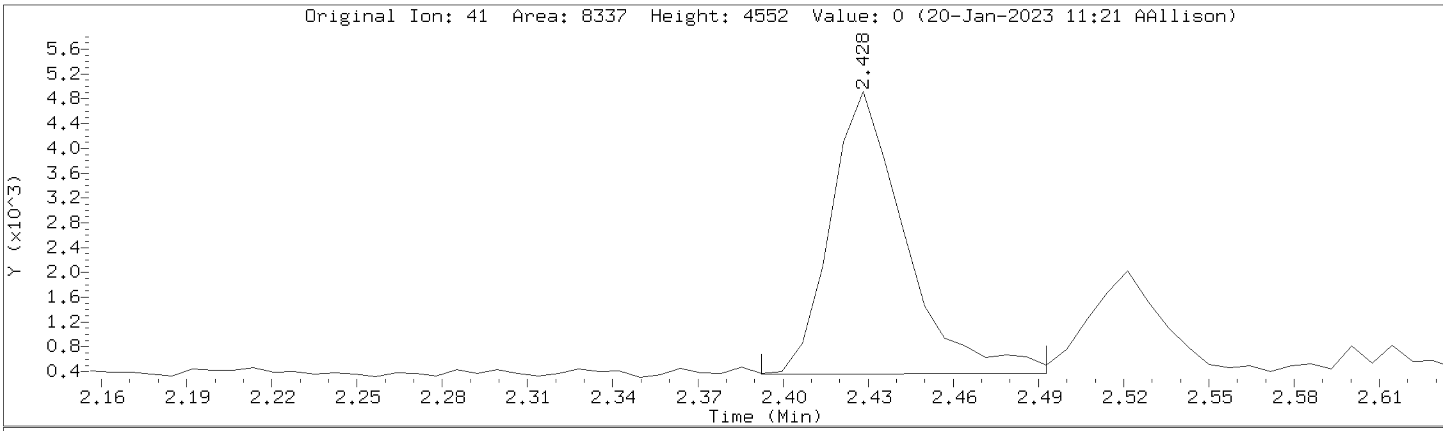
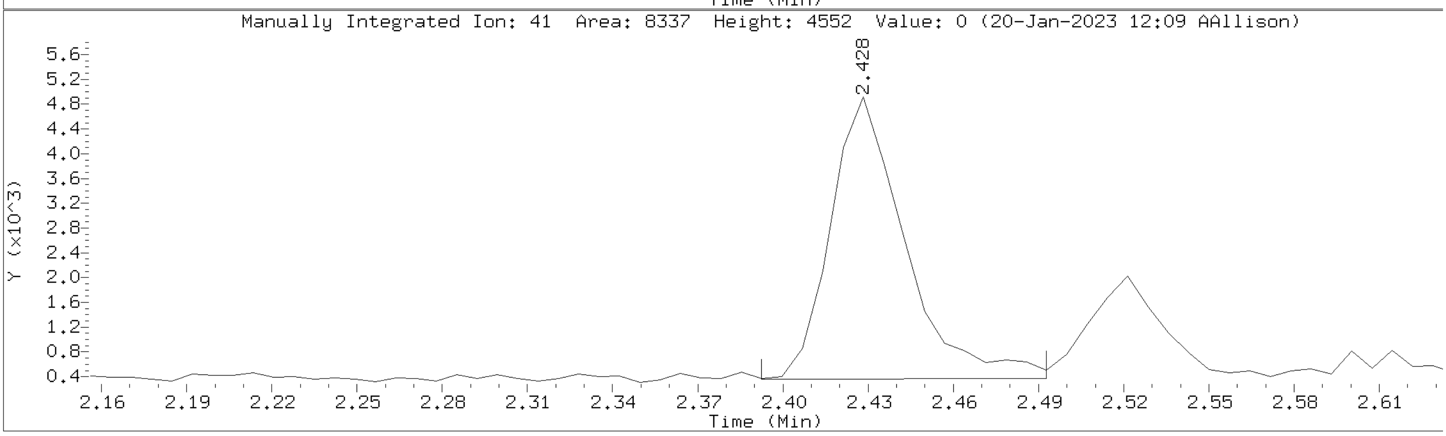
Lab Sample ID: 8260-CAL2





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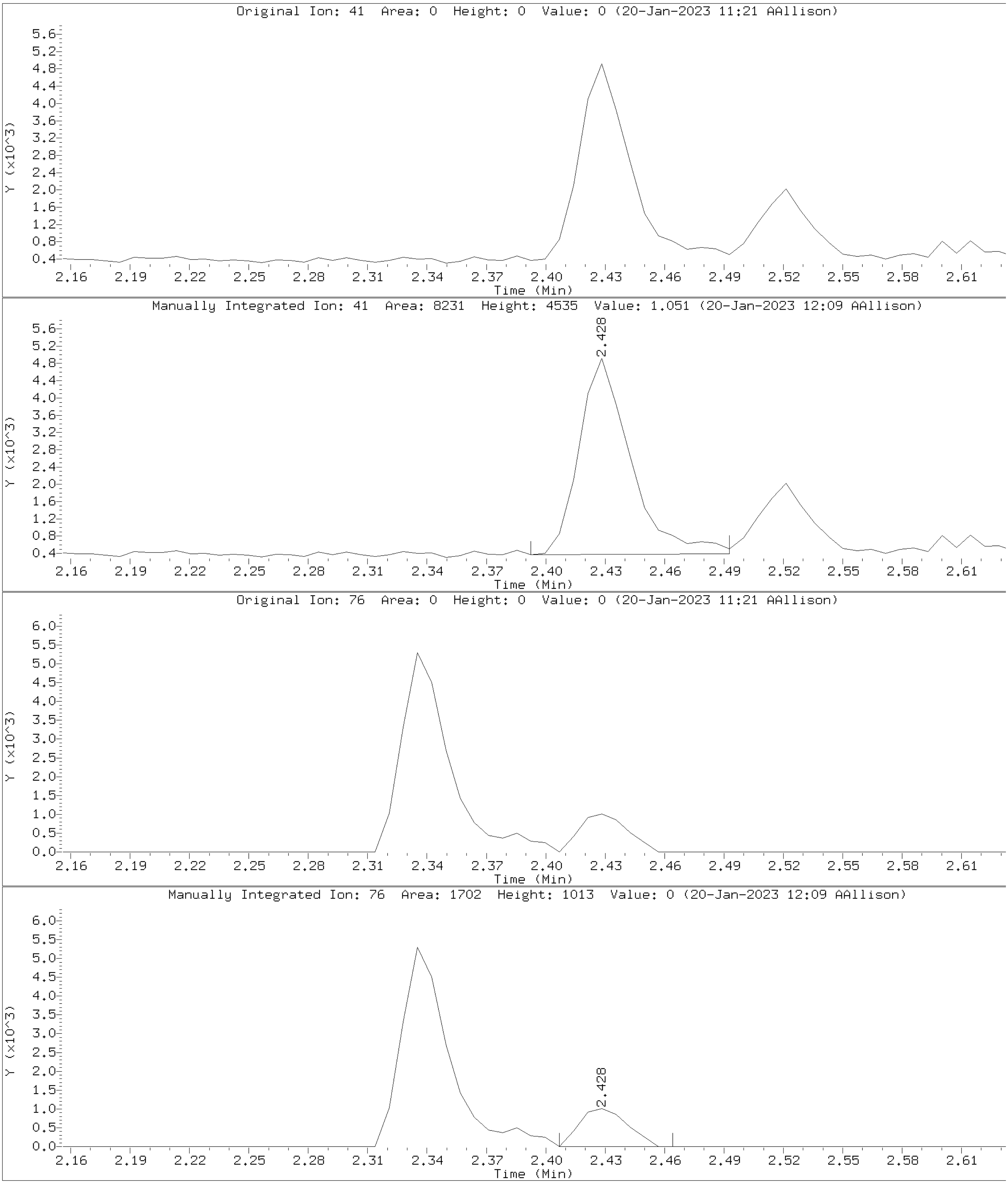
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1



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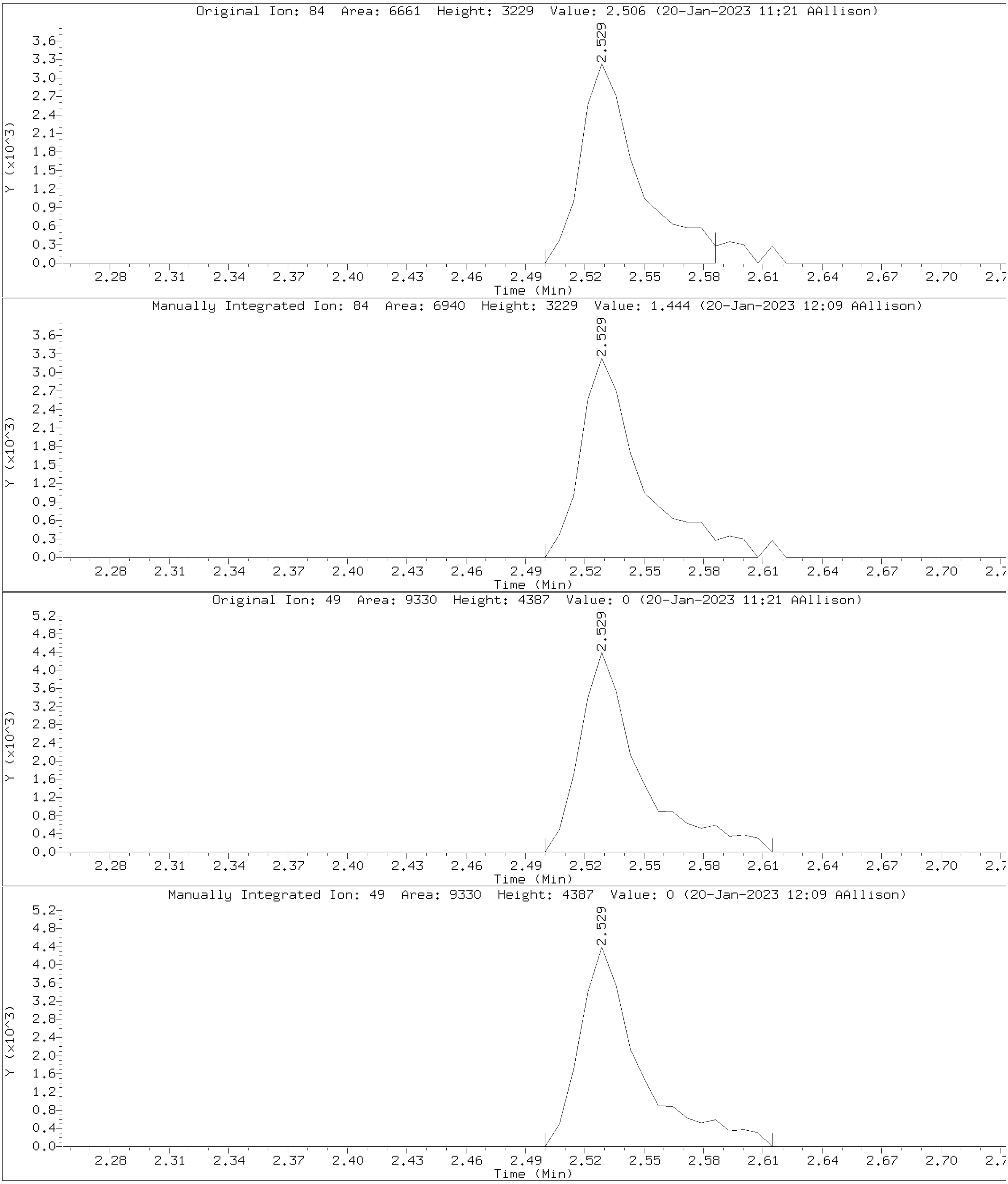
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Methylene Chloride   Review Code: LT
CAS Number: 75-09-2



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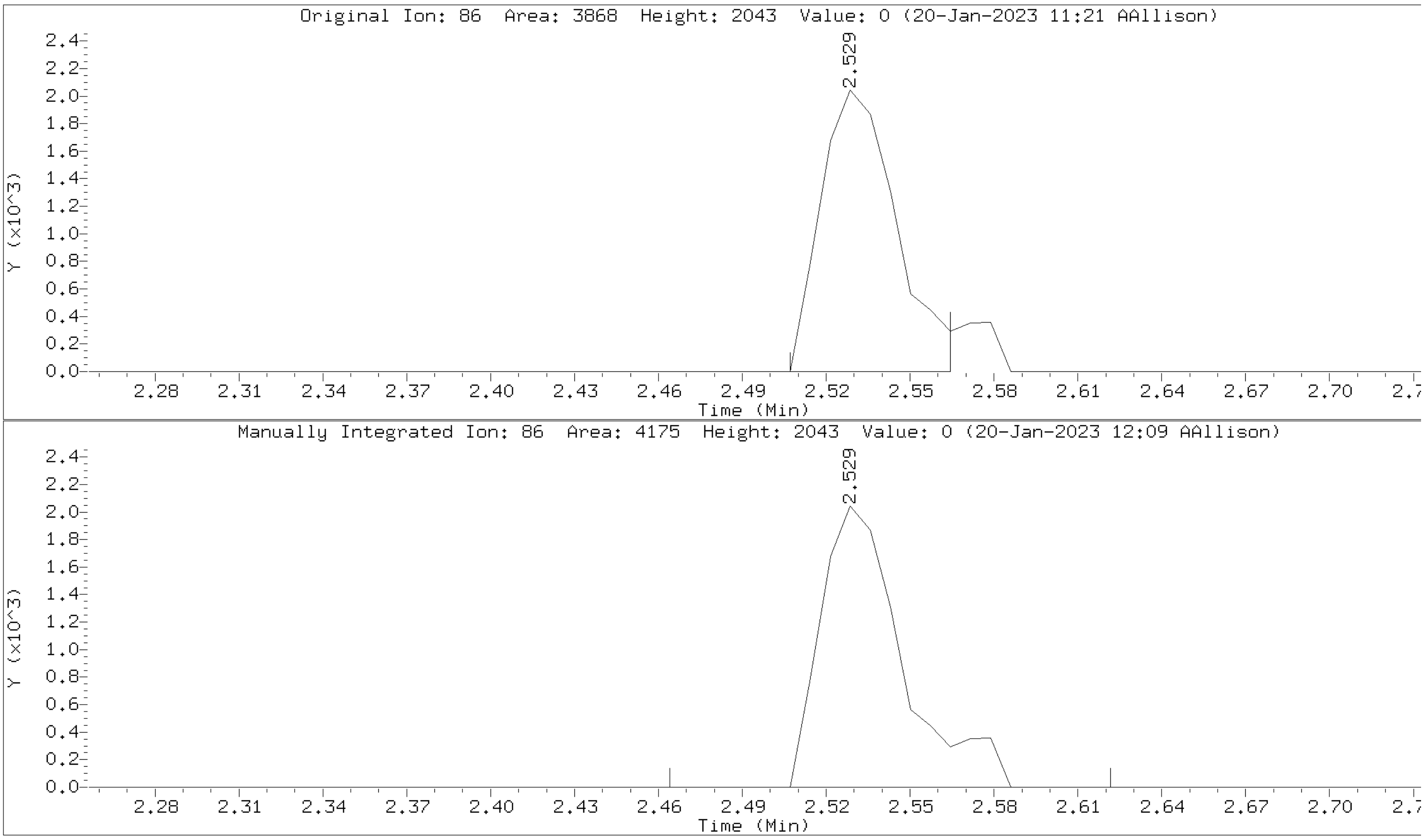
Lab Sample ID: 8260-CAL2



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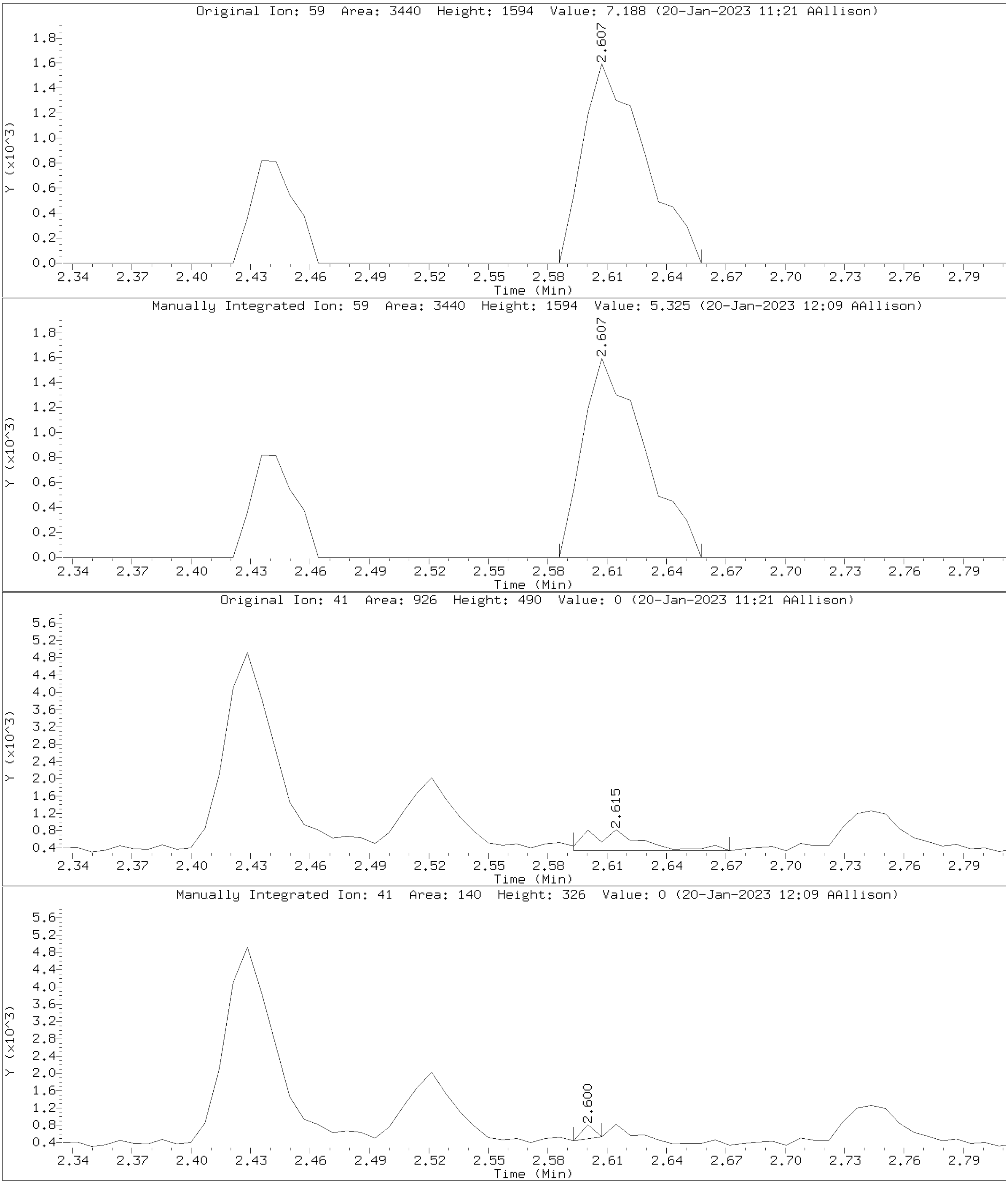
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butyl Alcohol   Review Code: GT
CAS Number: 75-65-0



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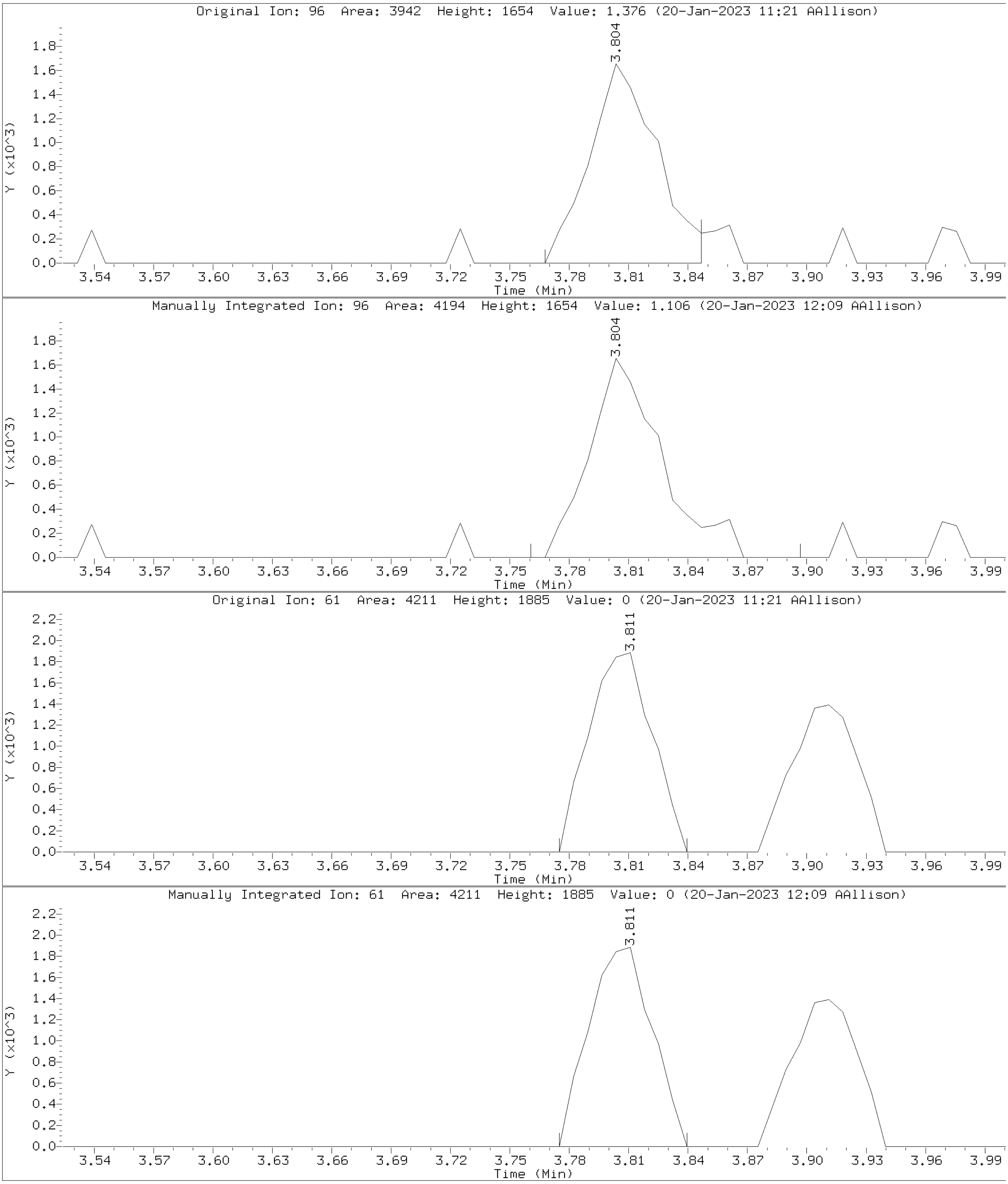
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloroethene (cis)   Review Code: LT
CAS Number: 156-59-2



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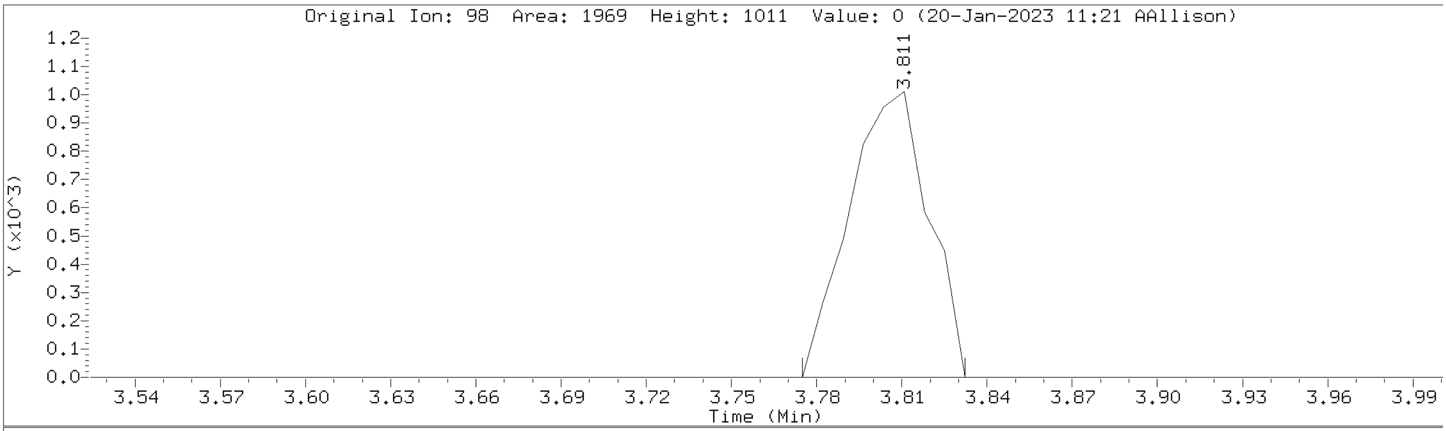

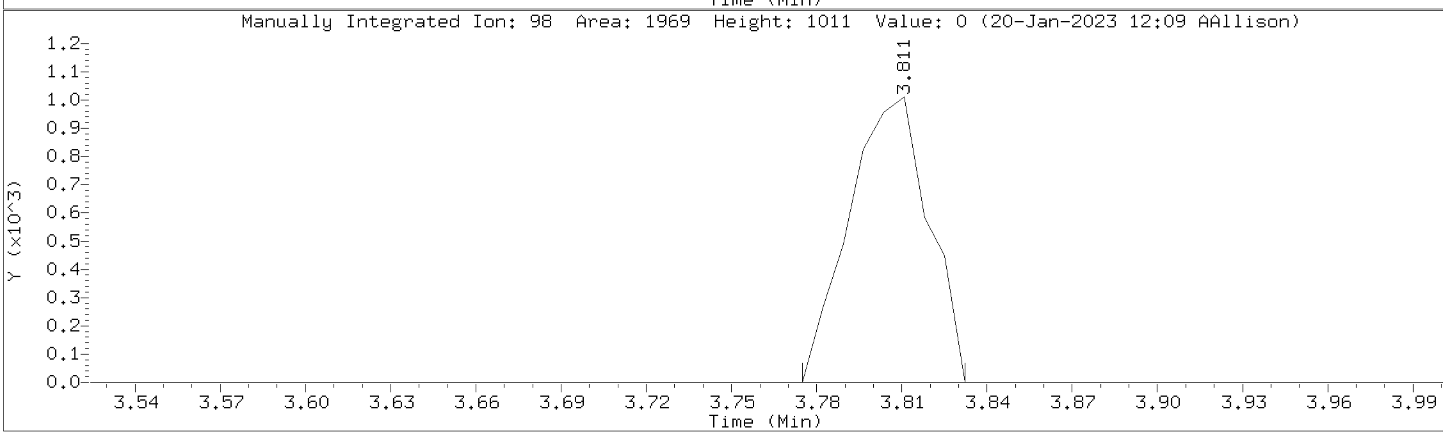

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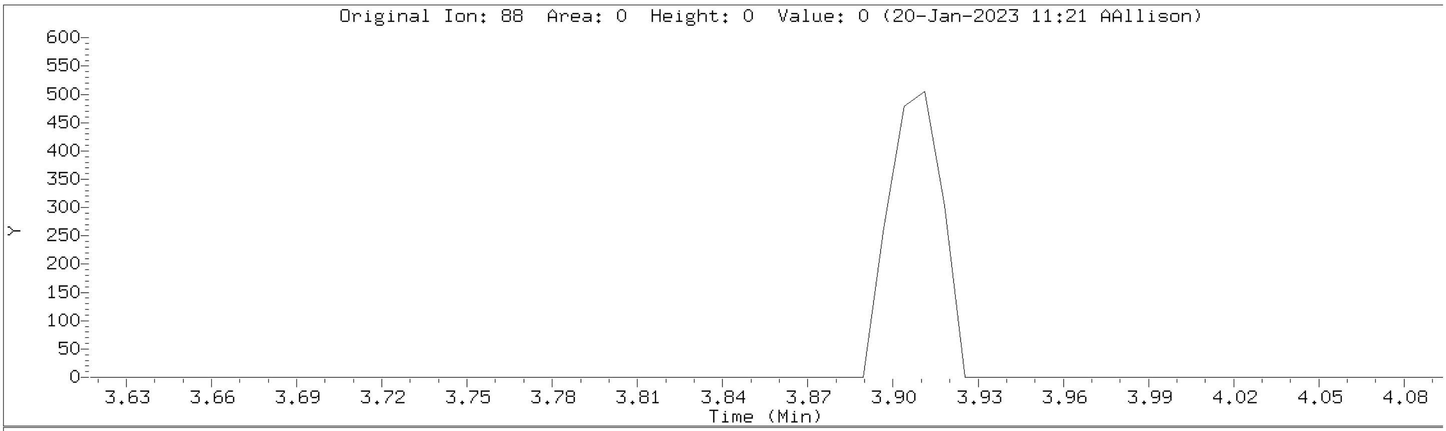
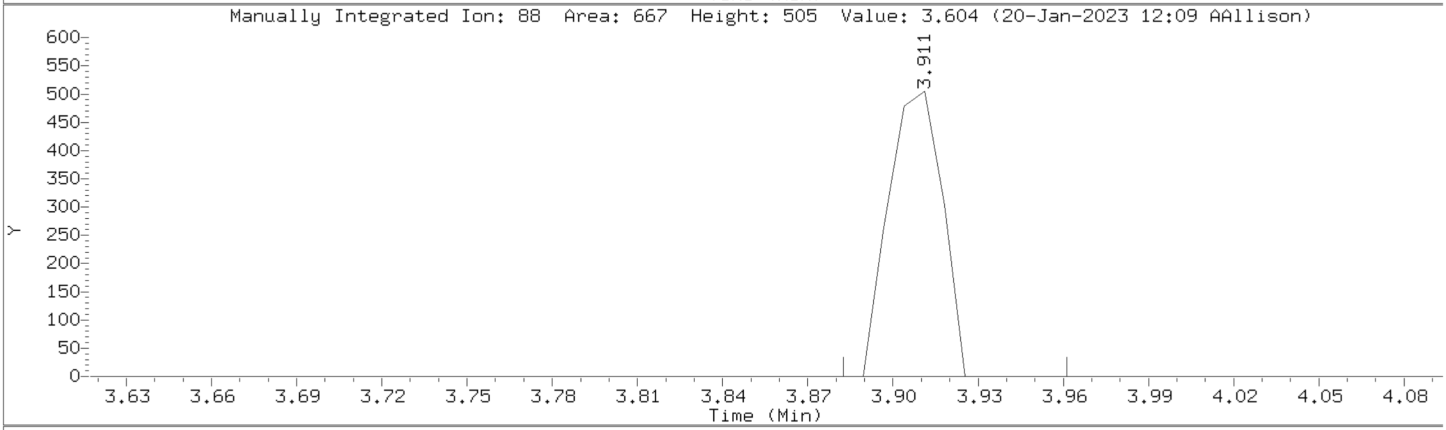
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Acetate   Review Code: NI
CAS Number: 141-78-6

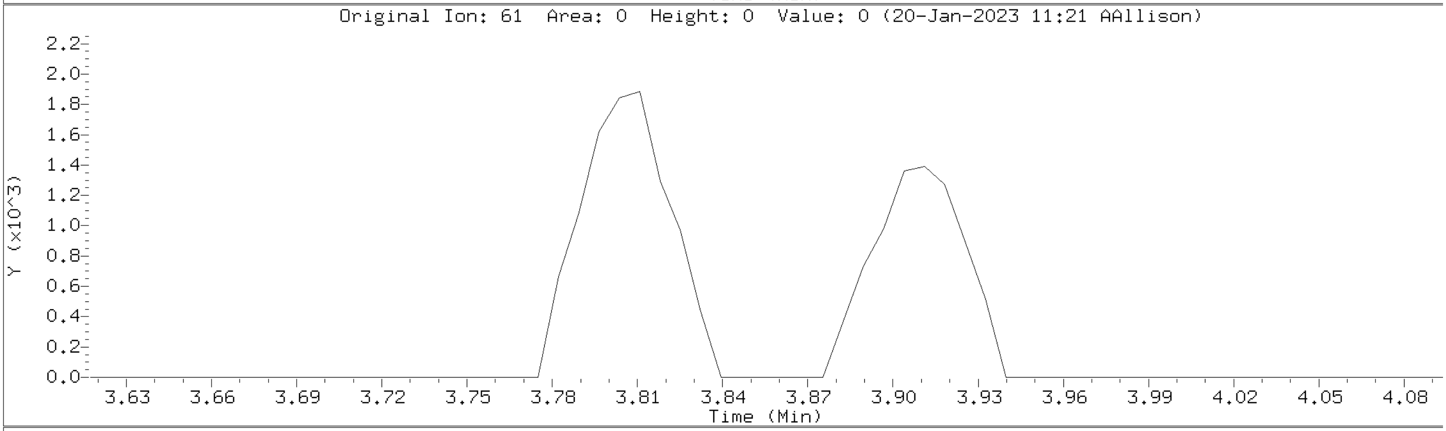
Original Ion: 88 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)



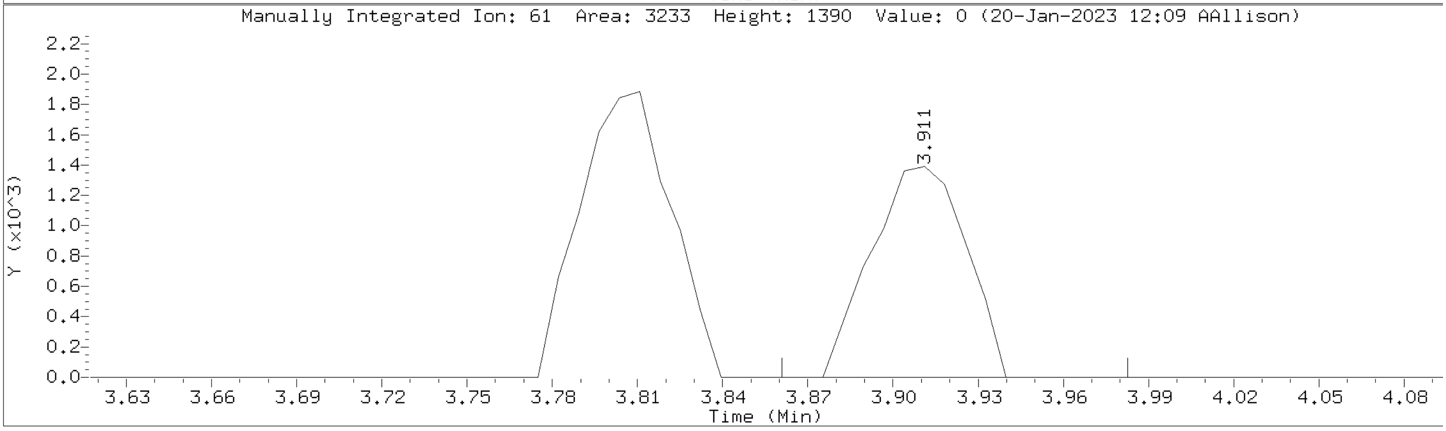
Manually Integrated Ion: 88 Area: 667 Height: 505 Value: 3.604 (20-Jan-2023 12:09 AAllison)



Original Ion: 61 Area: 0 Height: 0 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 61 Area: 3233 Height: 1390 Value: 0 (20-Jan-2023 12:09 AAllison)



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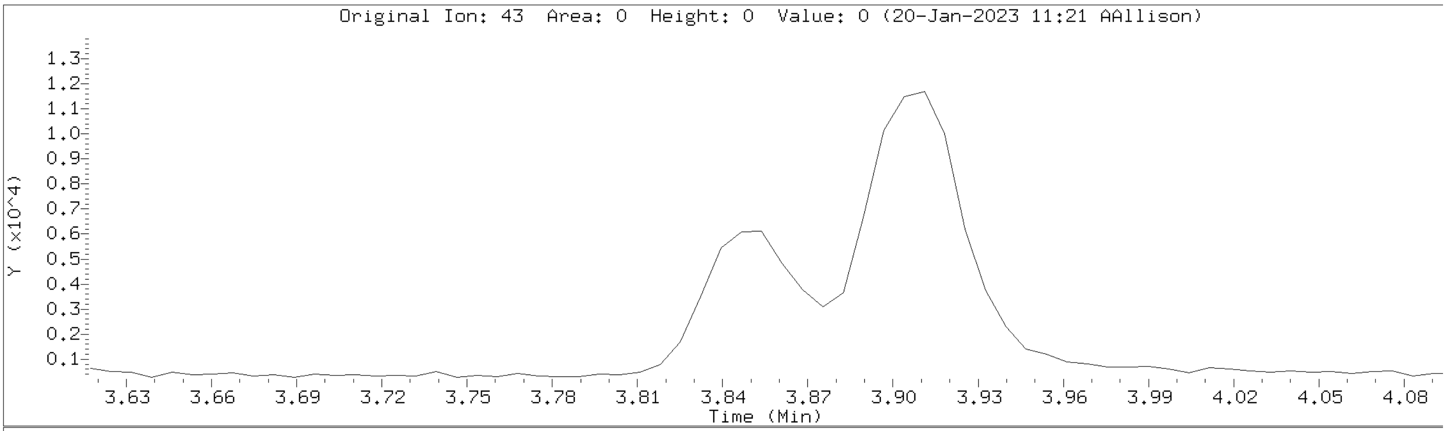
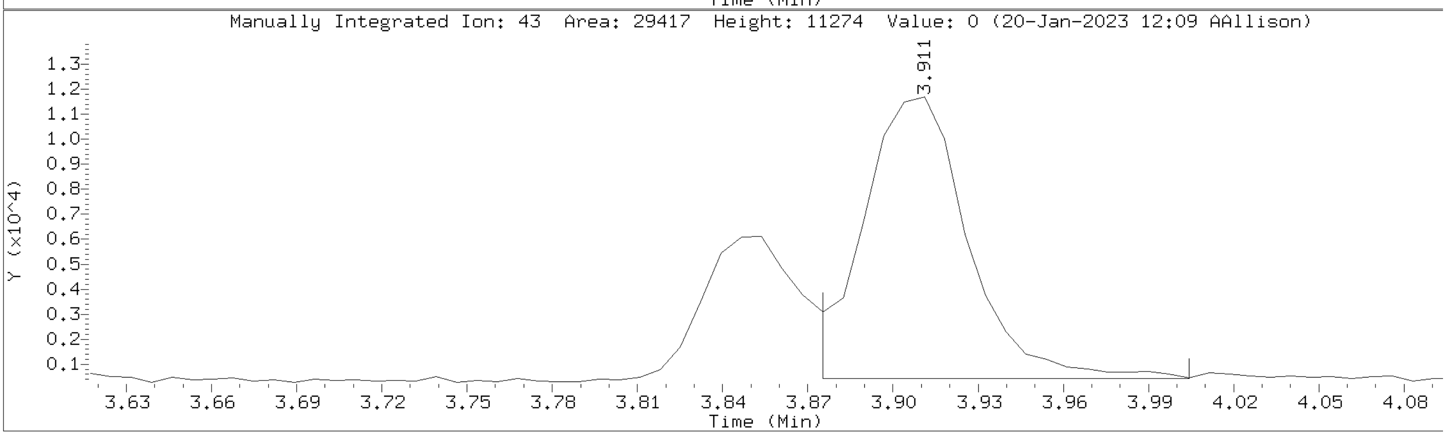
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2





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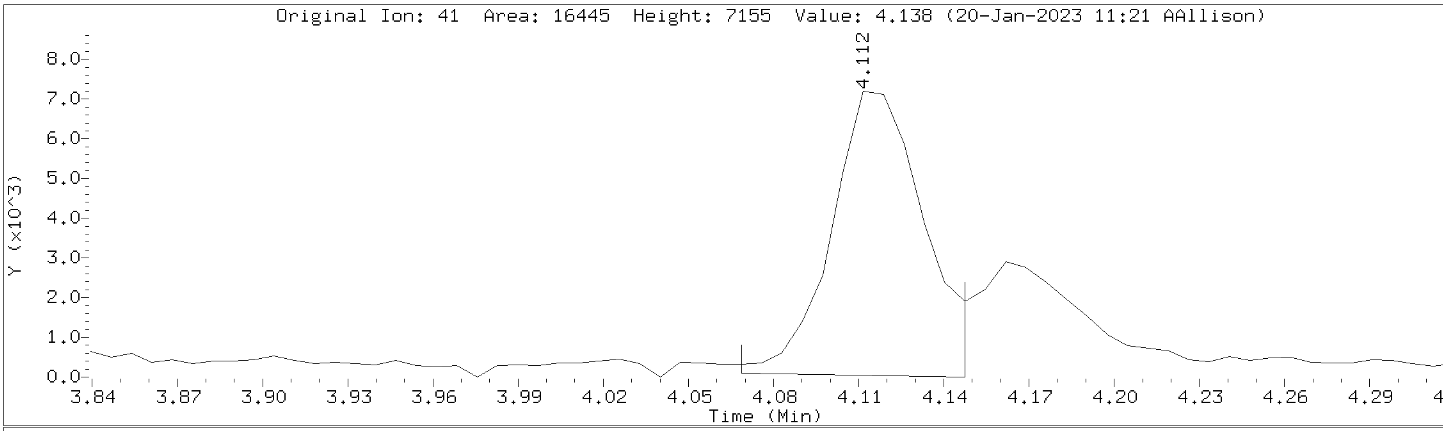
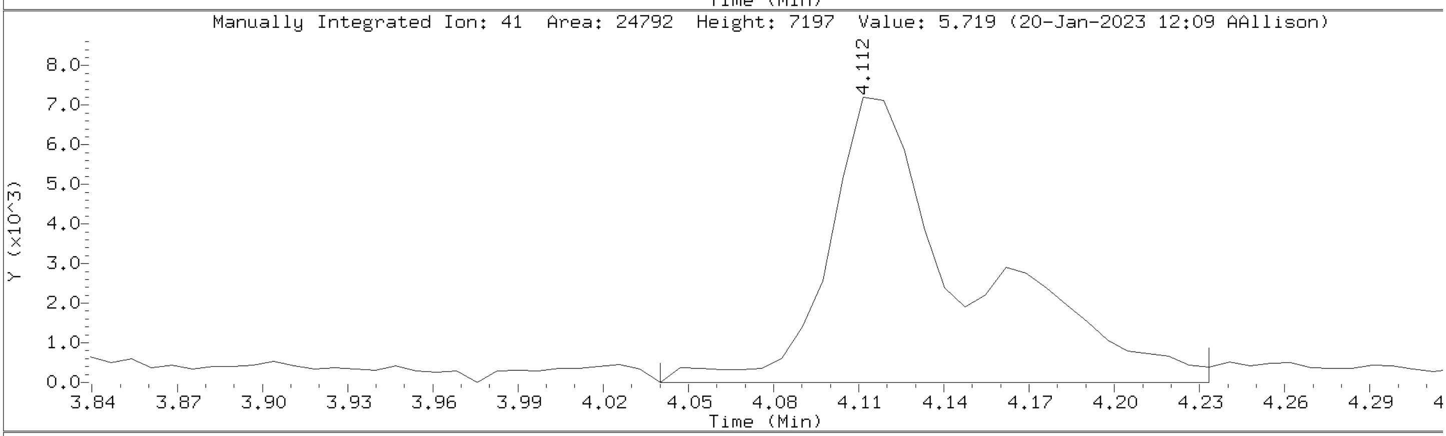
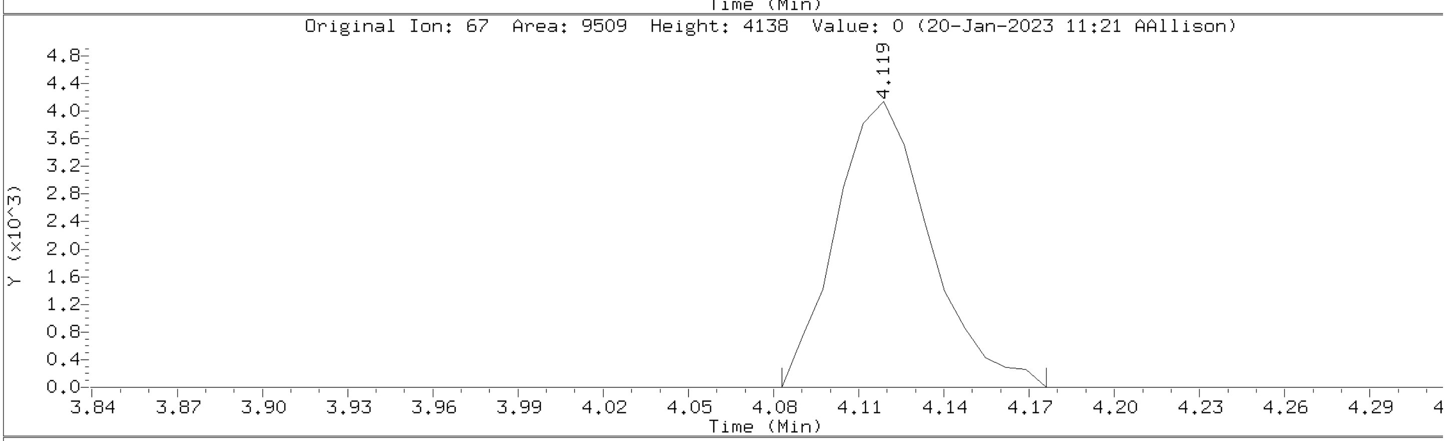
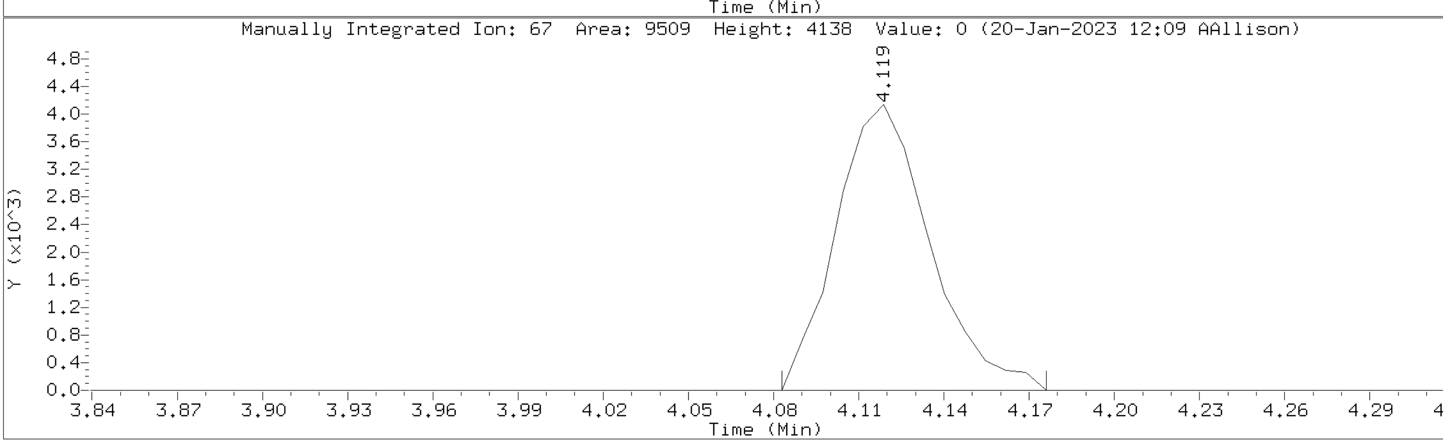
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Methacrylonitrile   Review Code: LT
CAS Number: 126-98-7









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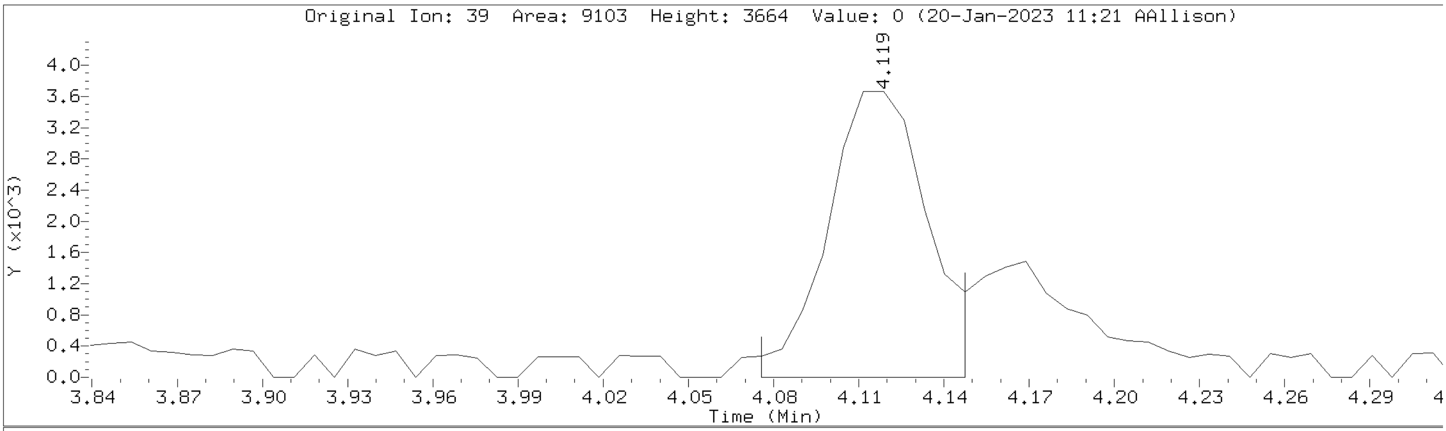

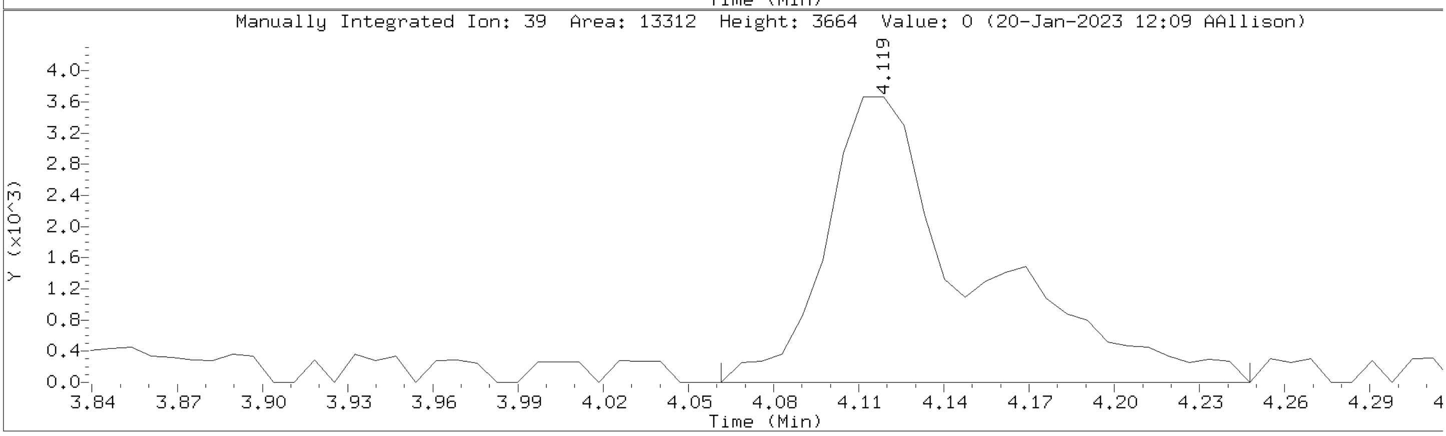

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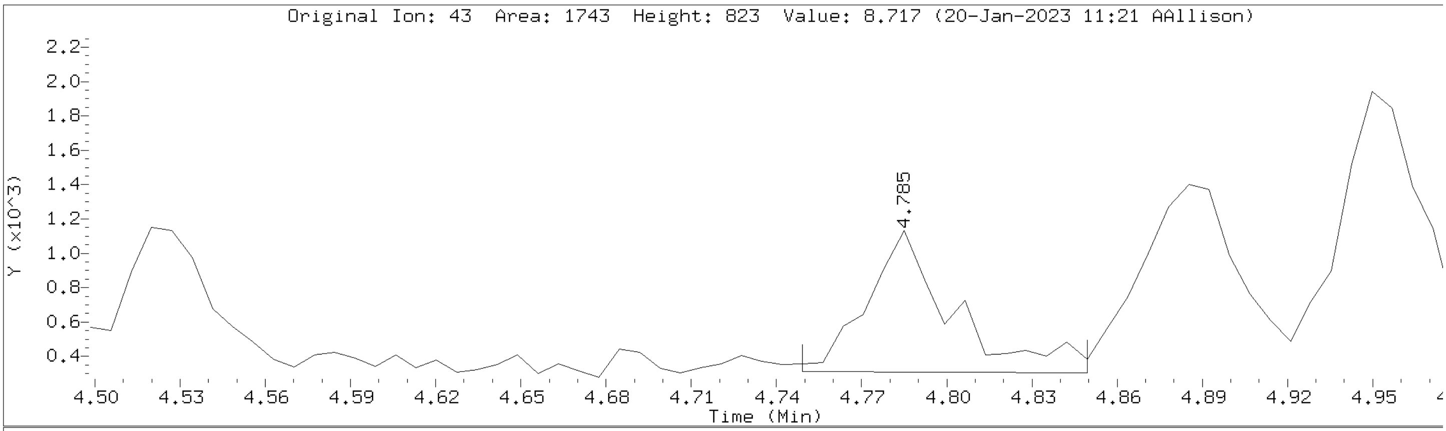
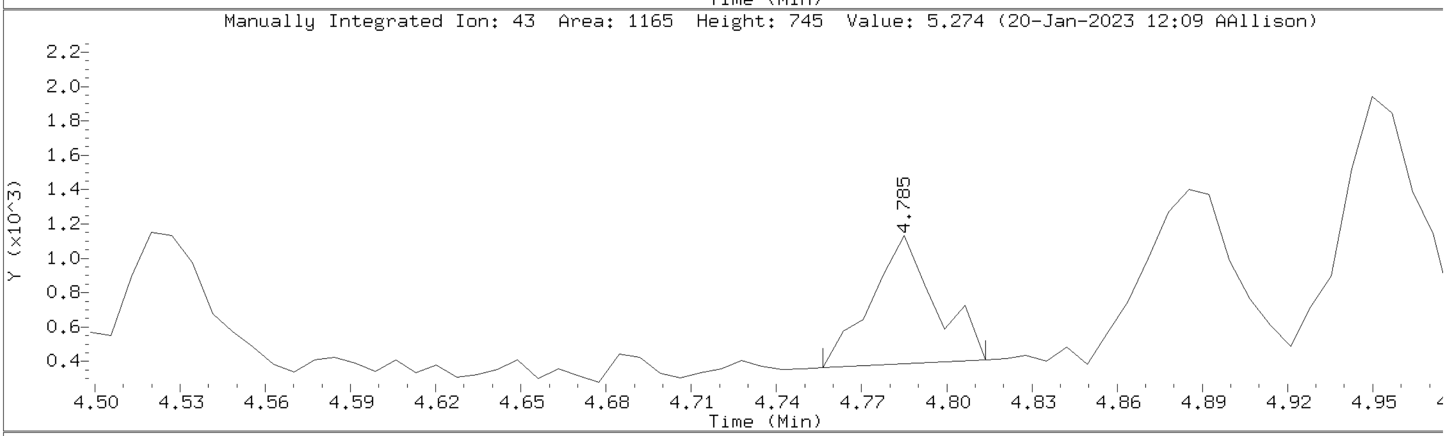
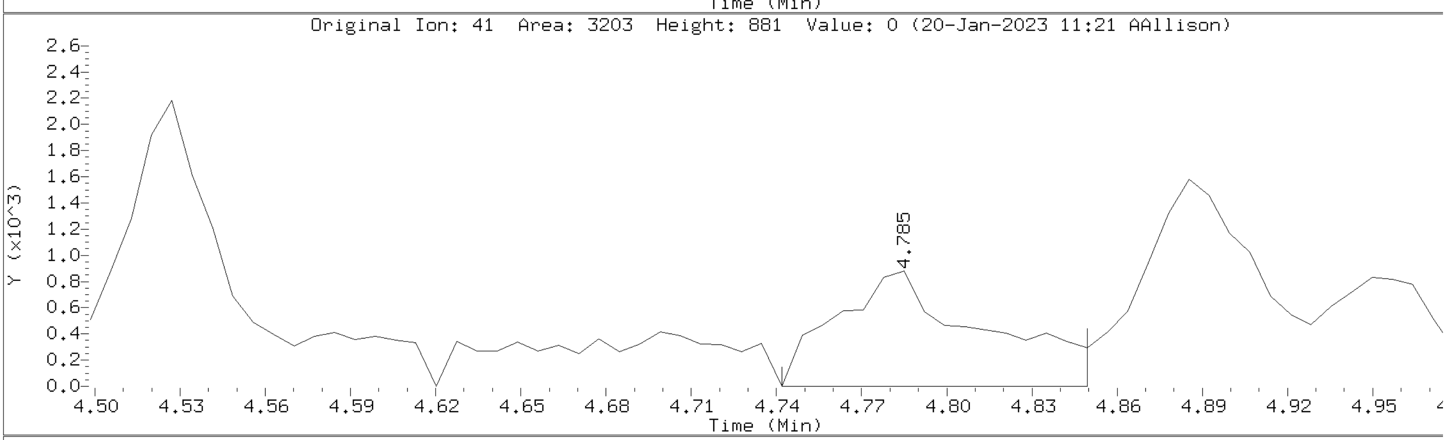
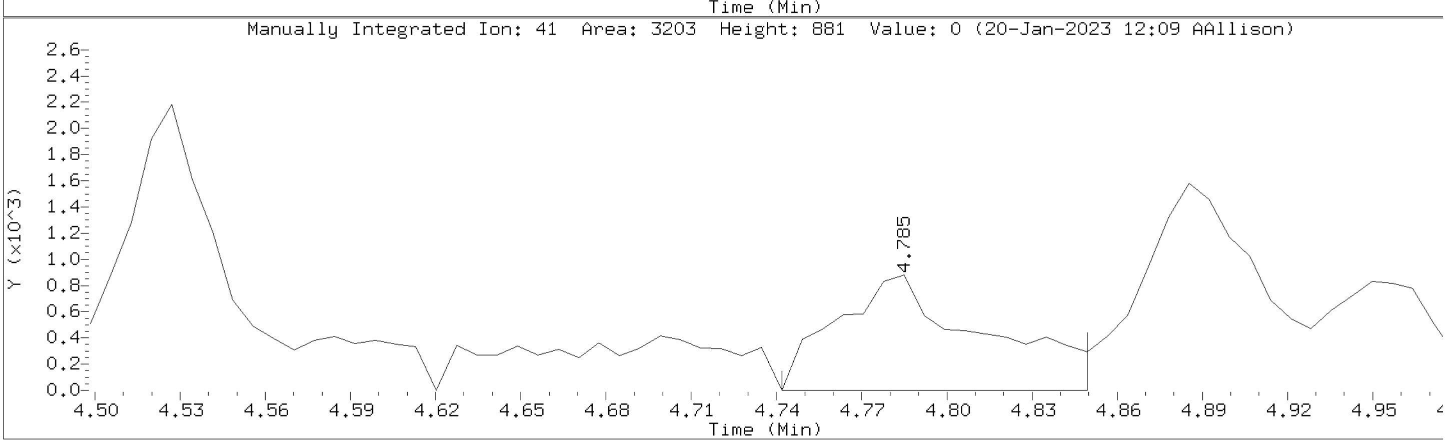
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Isobutyl alcohol   Review Code: GT
CAS Number: 78-83-1









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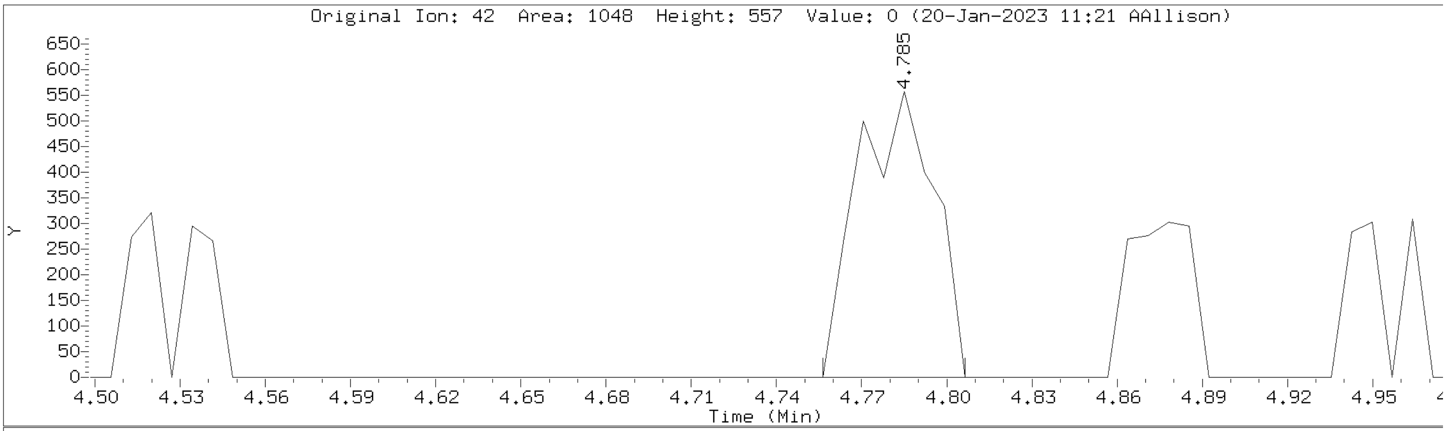

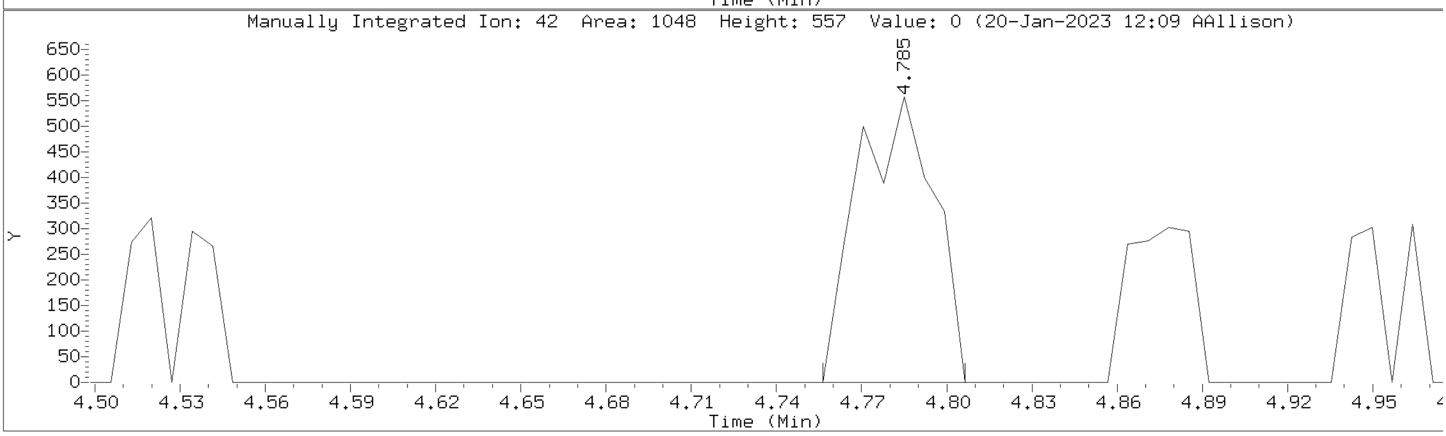

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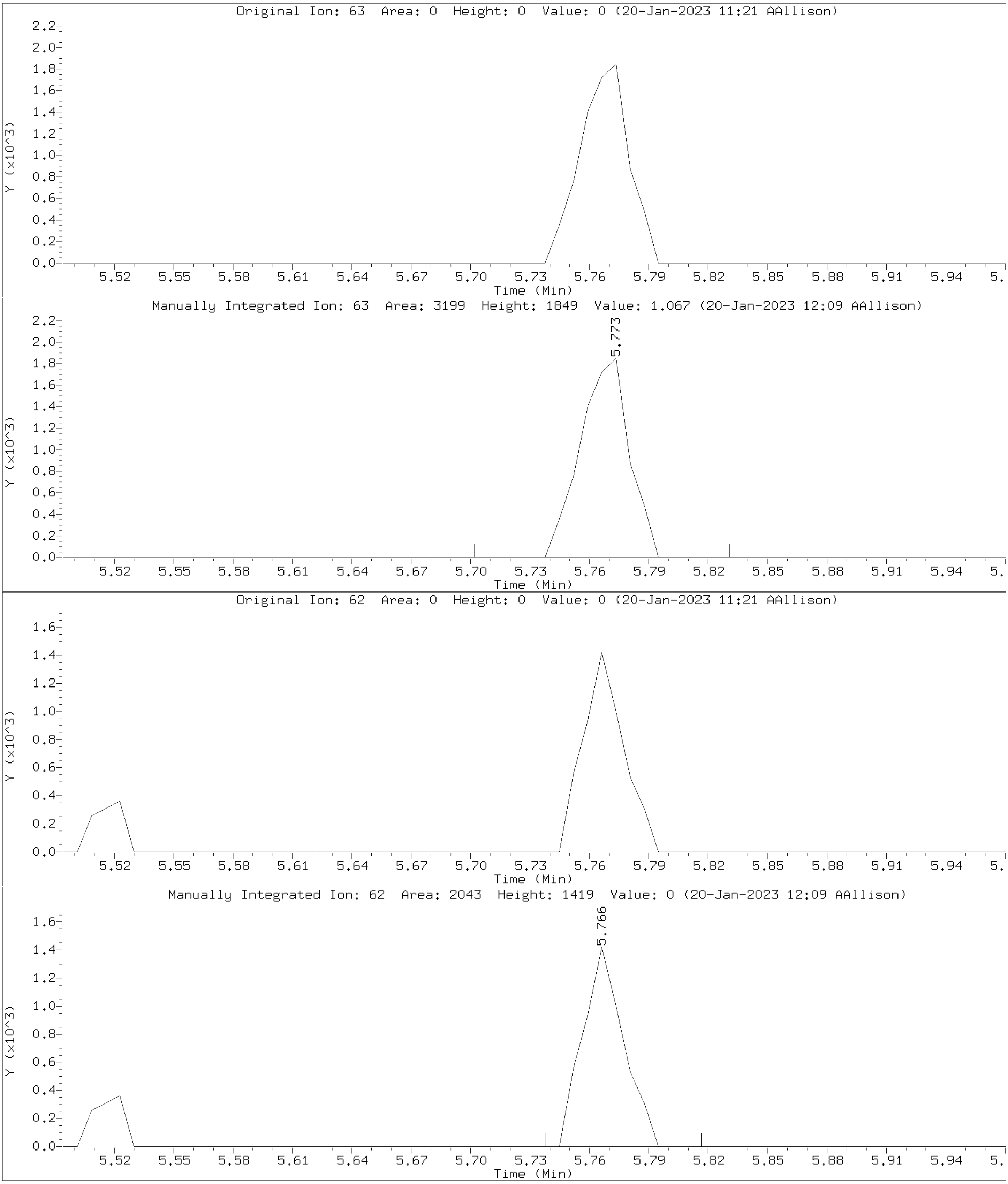
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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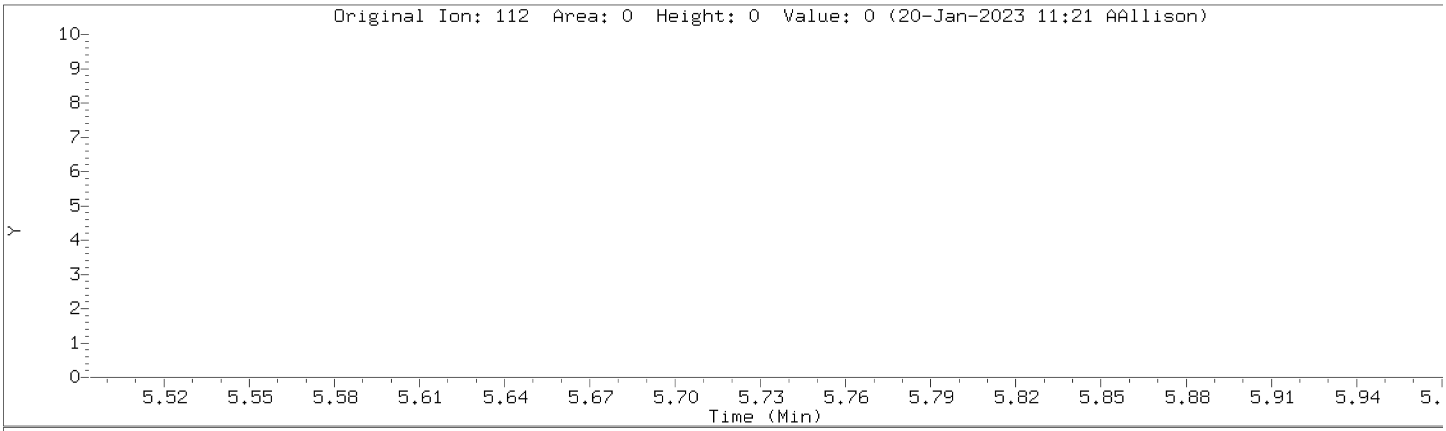
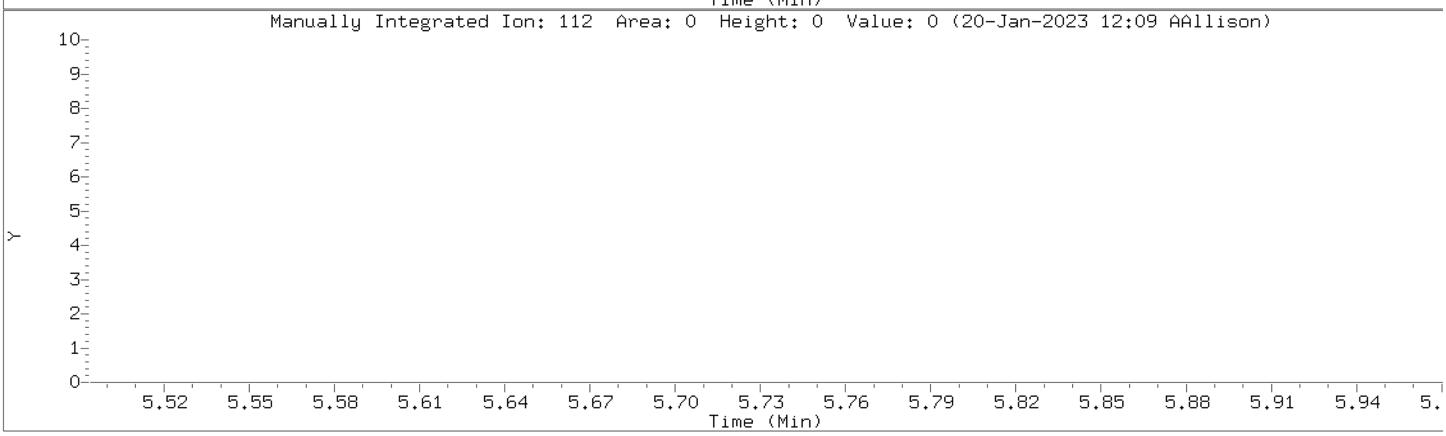
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2





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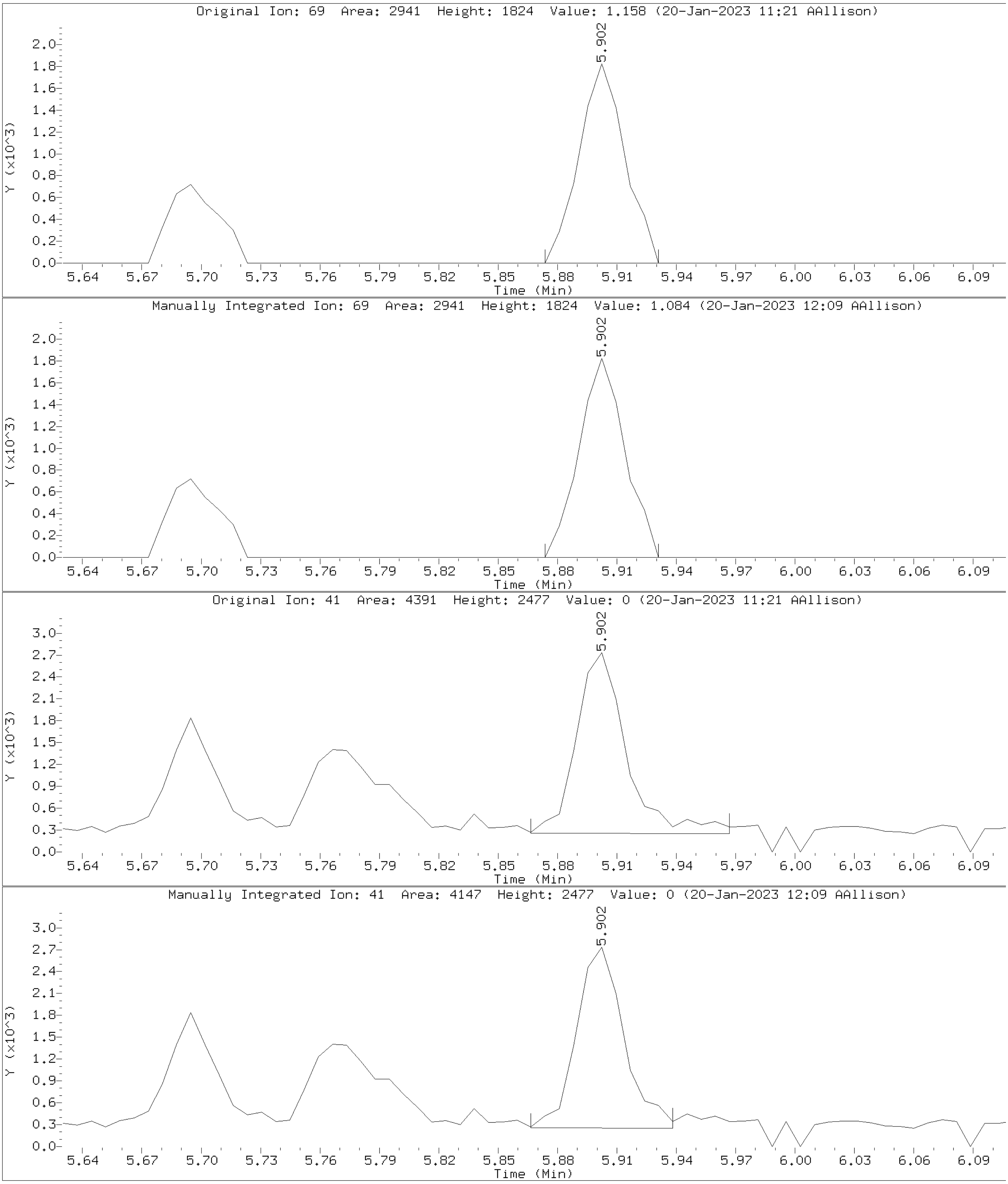
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Methyl methacrylate   Review Code: GT
CAS Number: 80-62-6



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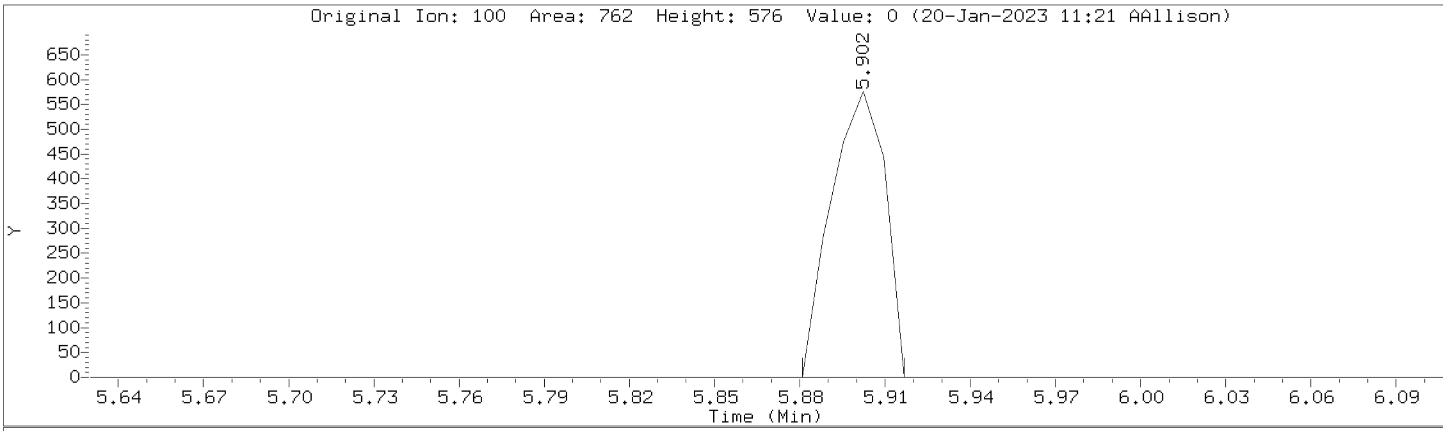
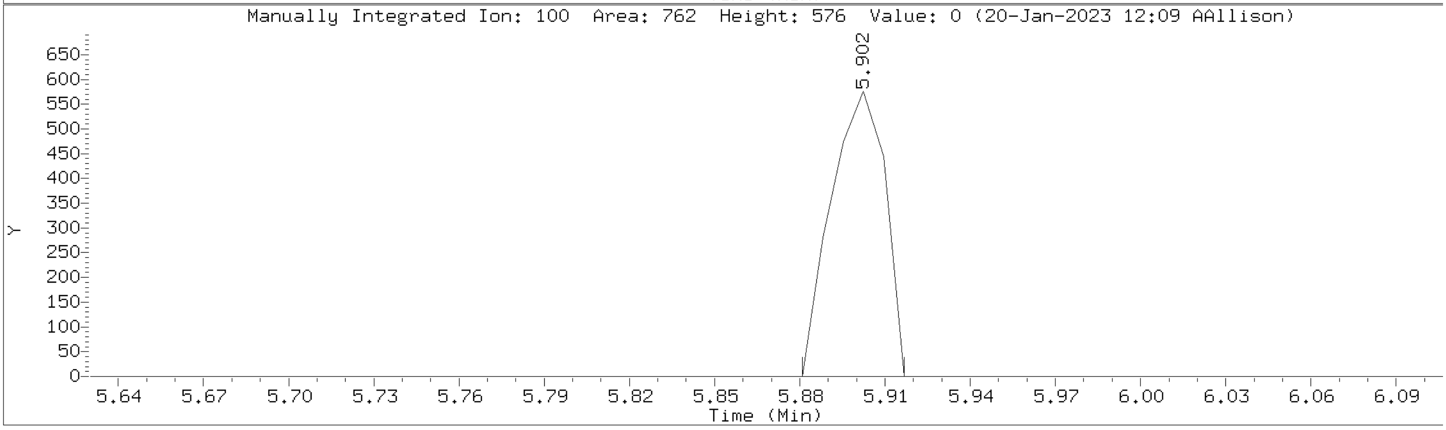
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Original Ion: 100 Area: 762 Height: 576 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 100 Area: 762 Height: 576 Value: 0 (20-Jan-2023 12:09 AAllison)



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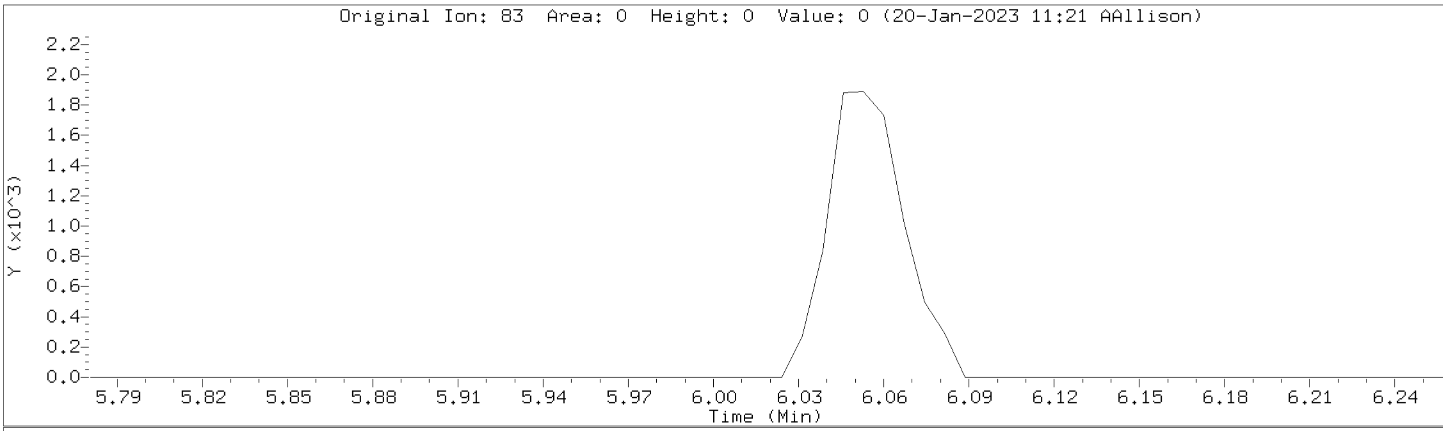
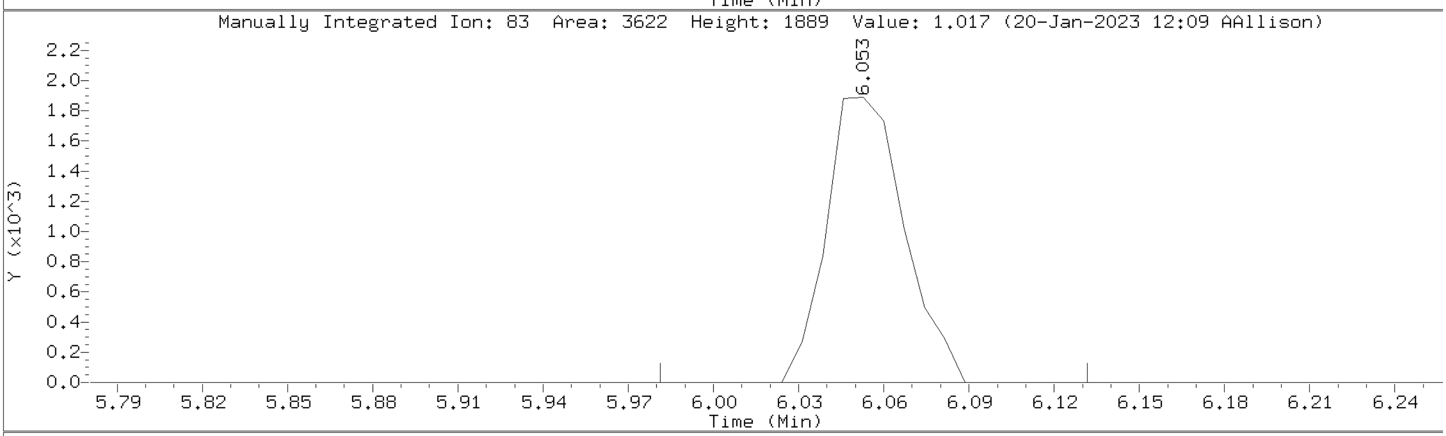
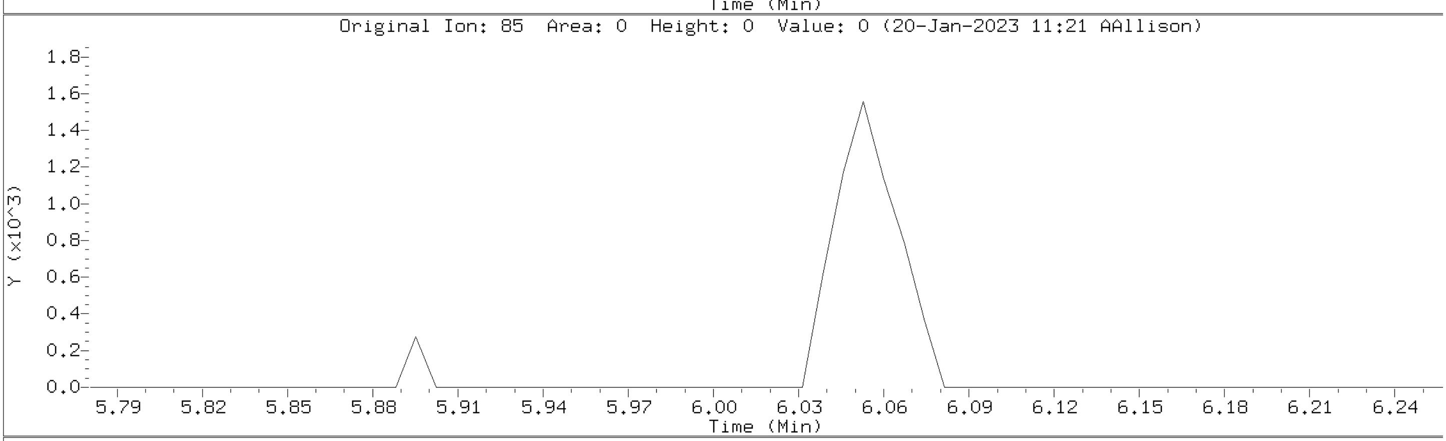
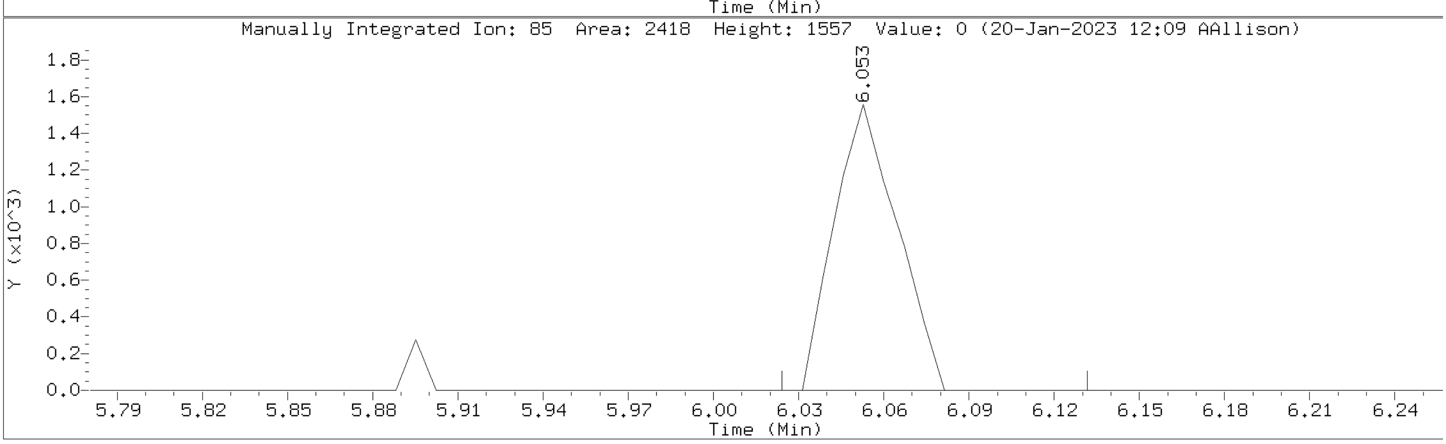
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4









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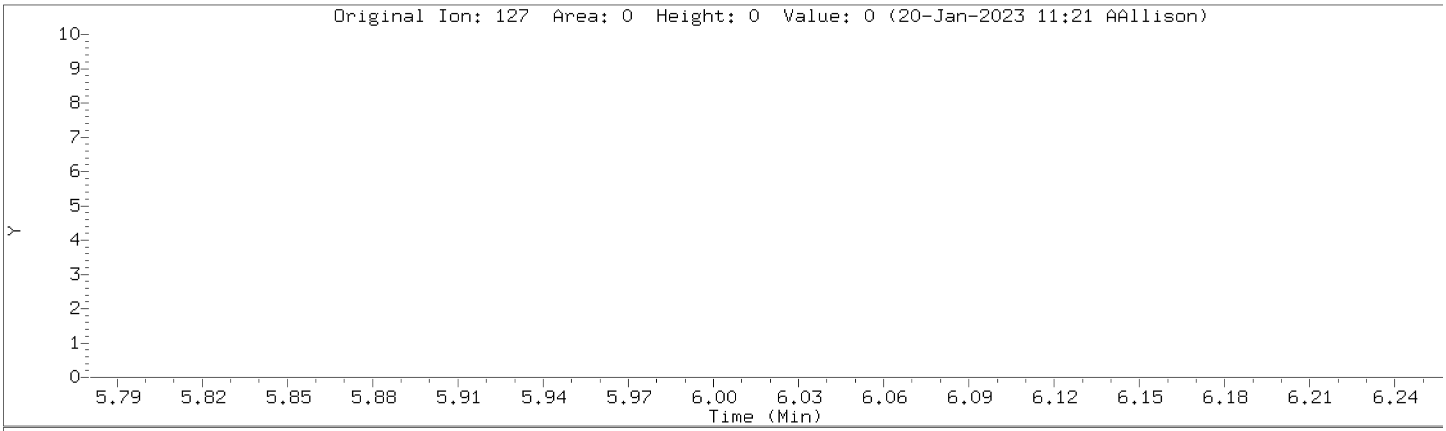
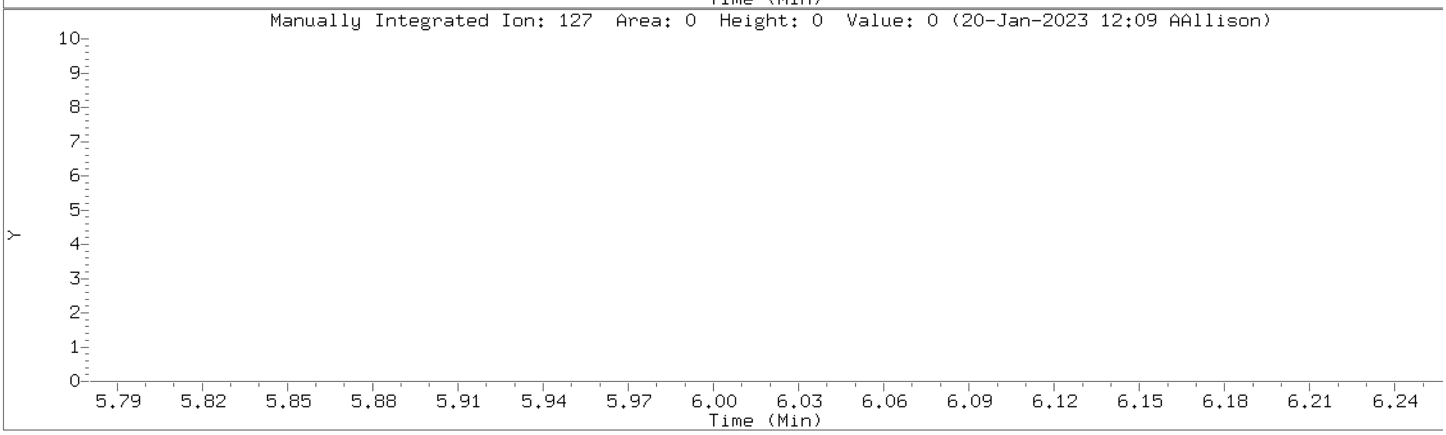
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2





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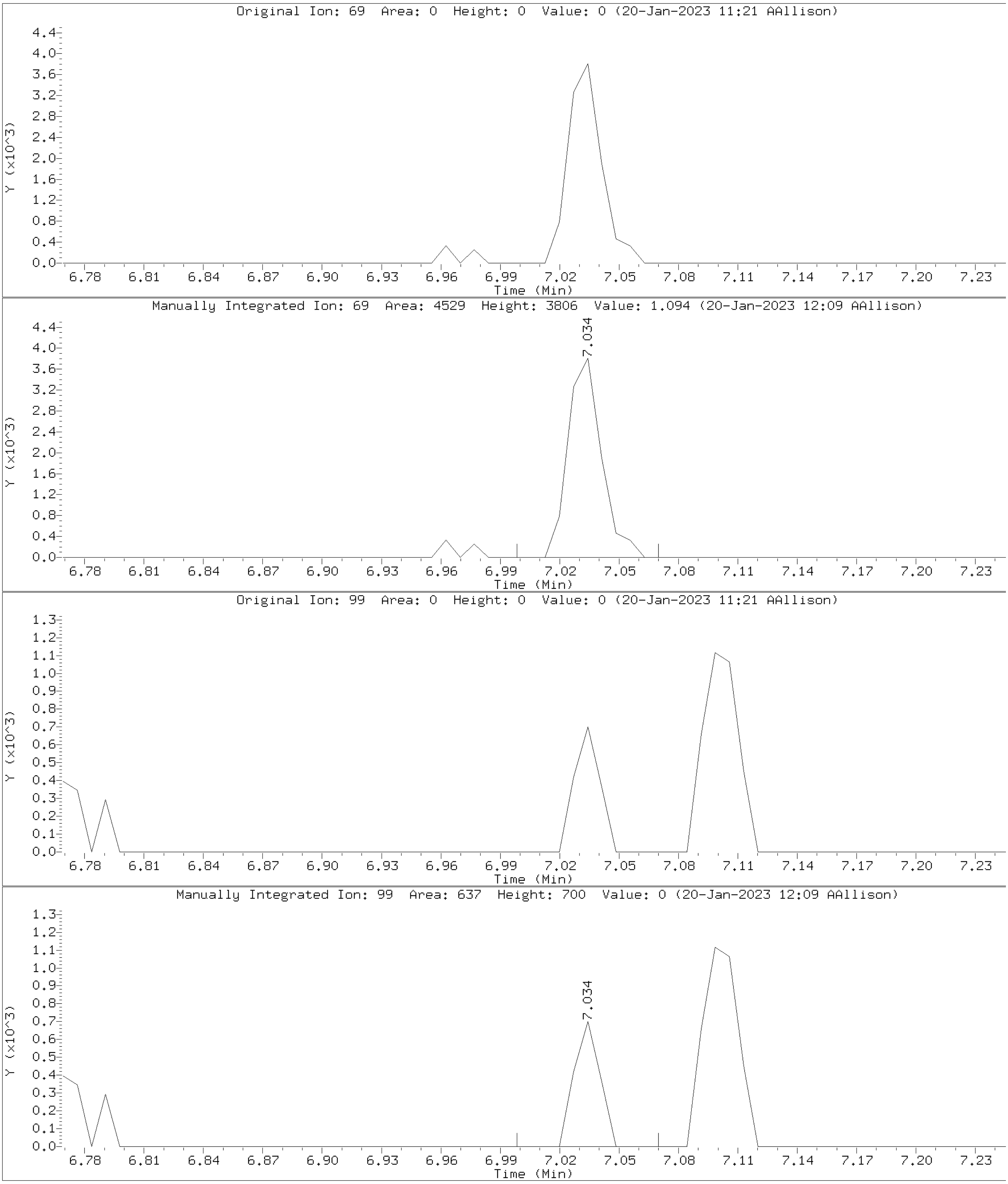
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate   Review Code: NI
CAS Number:



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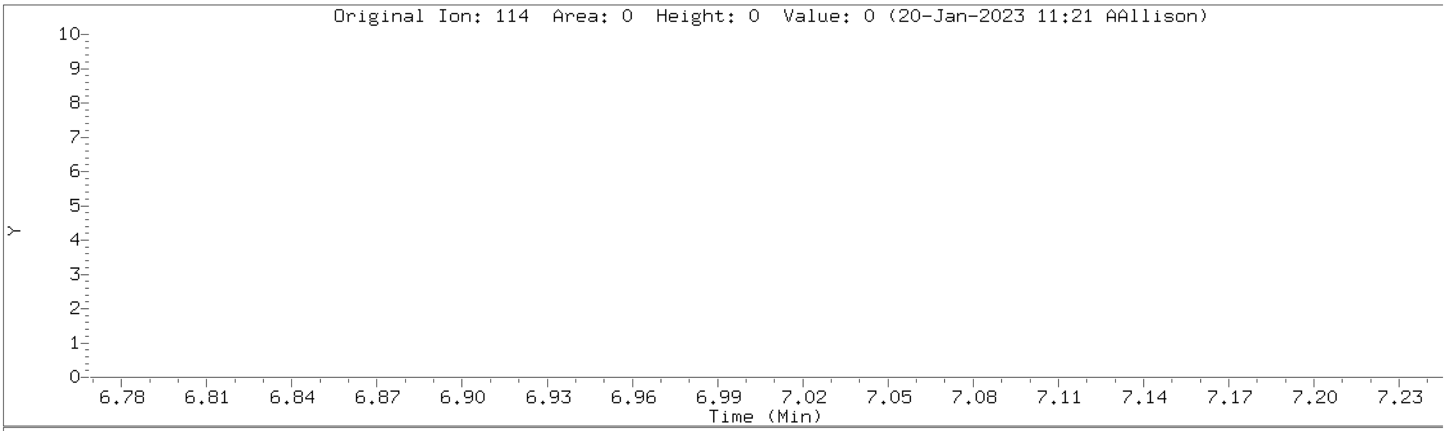
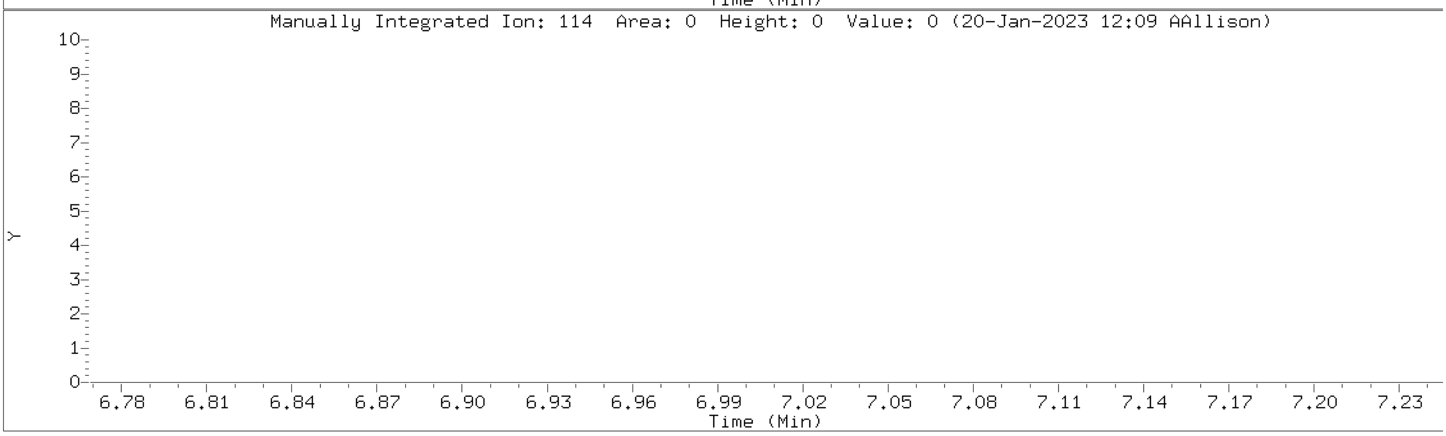
Lab Sample ID: 8260-CAL2





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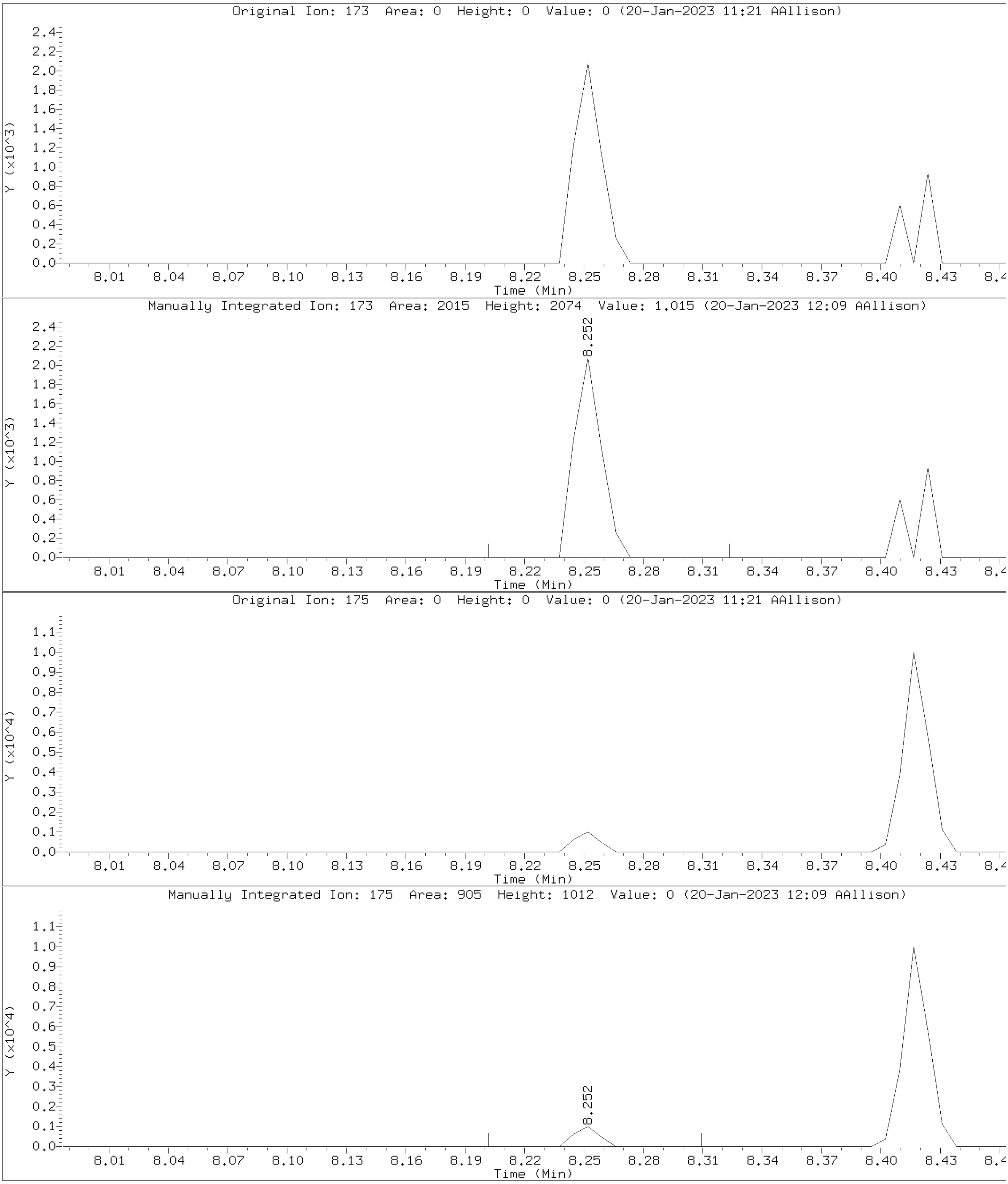
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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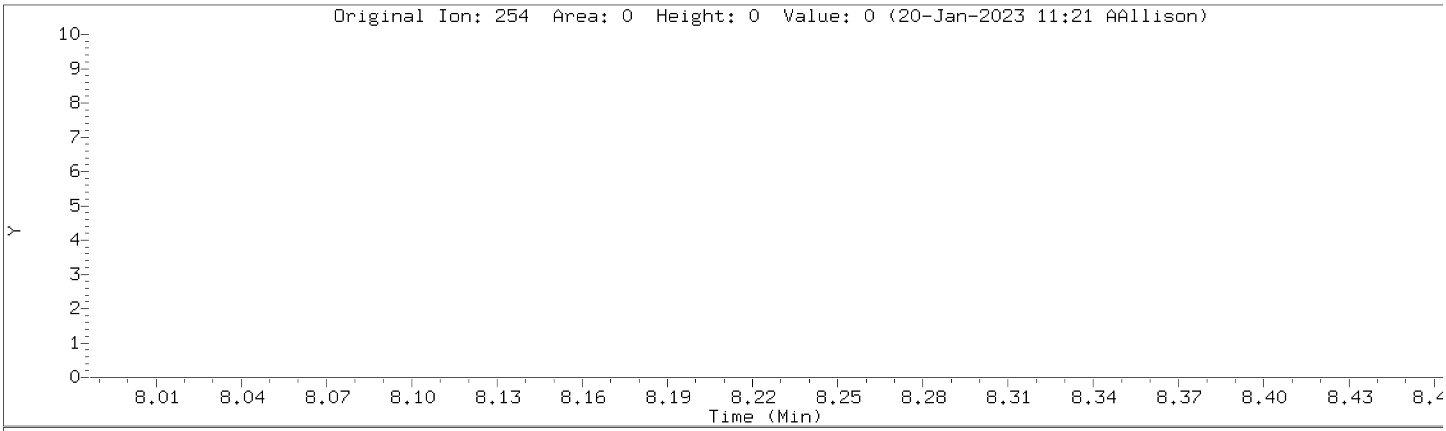
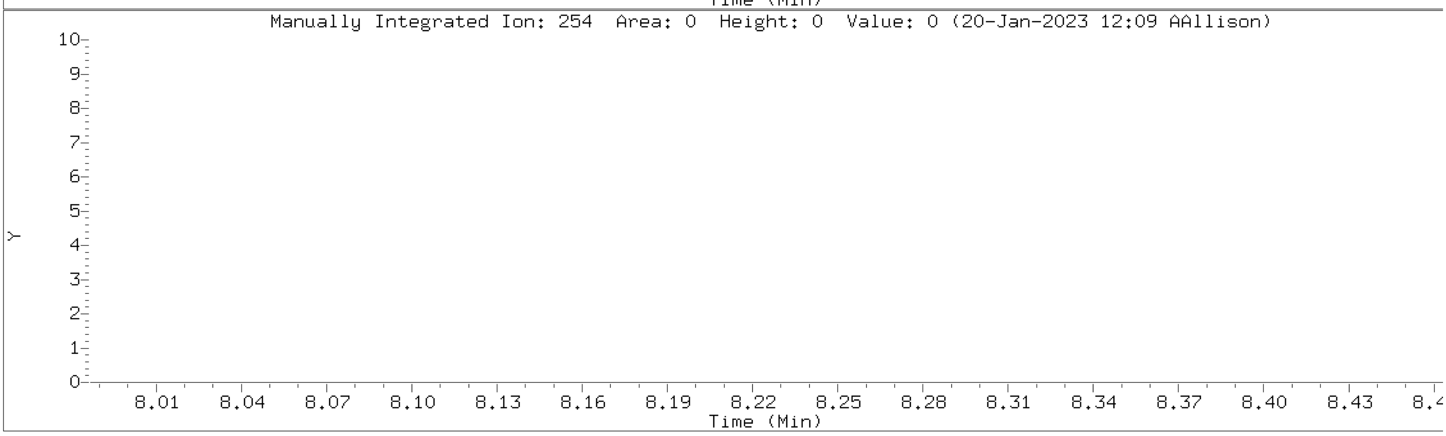
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2





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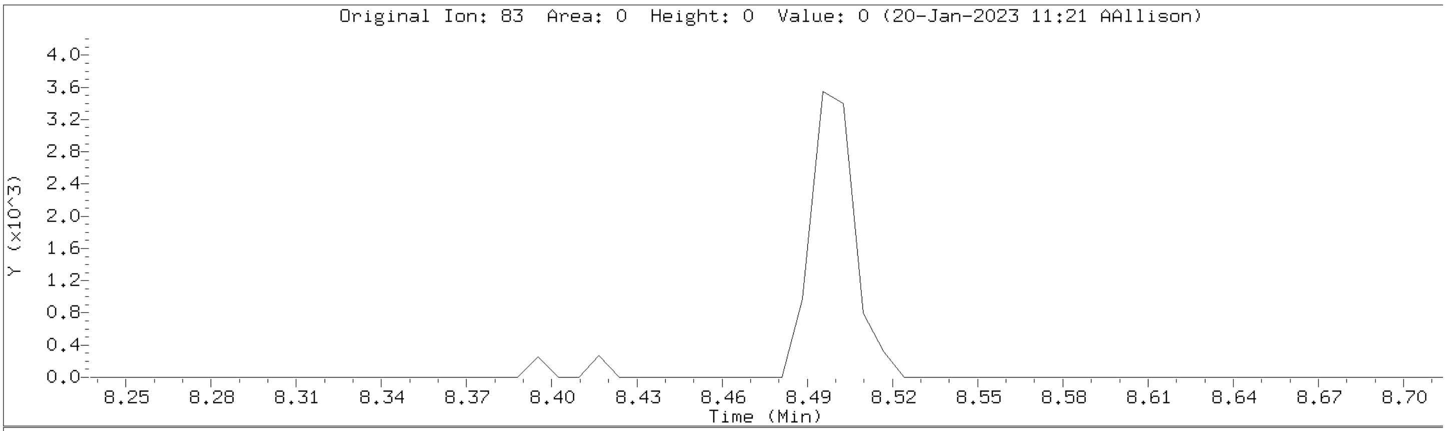
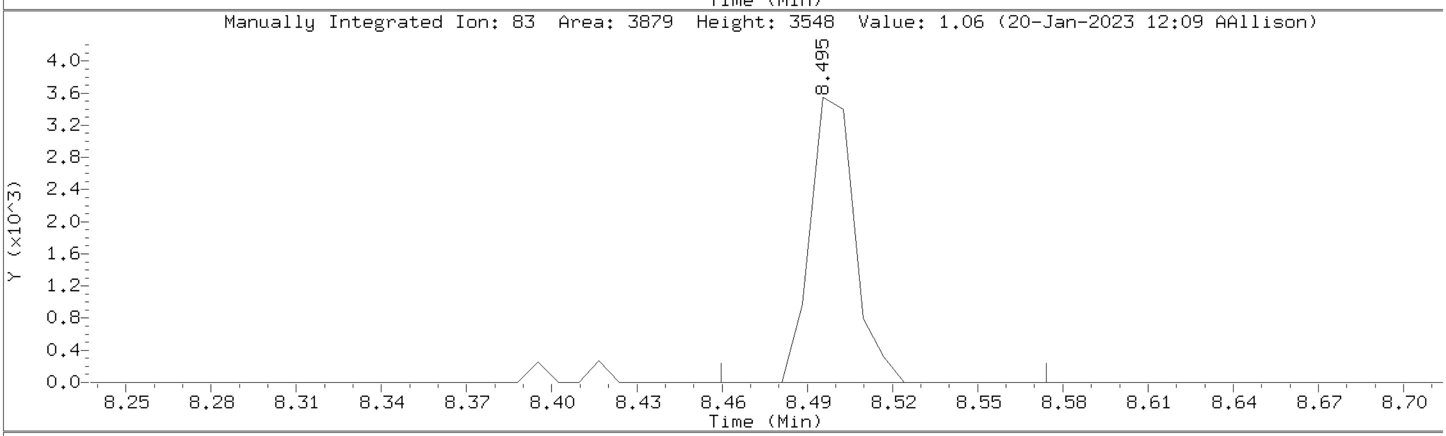
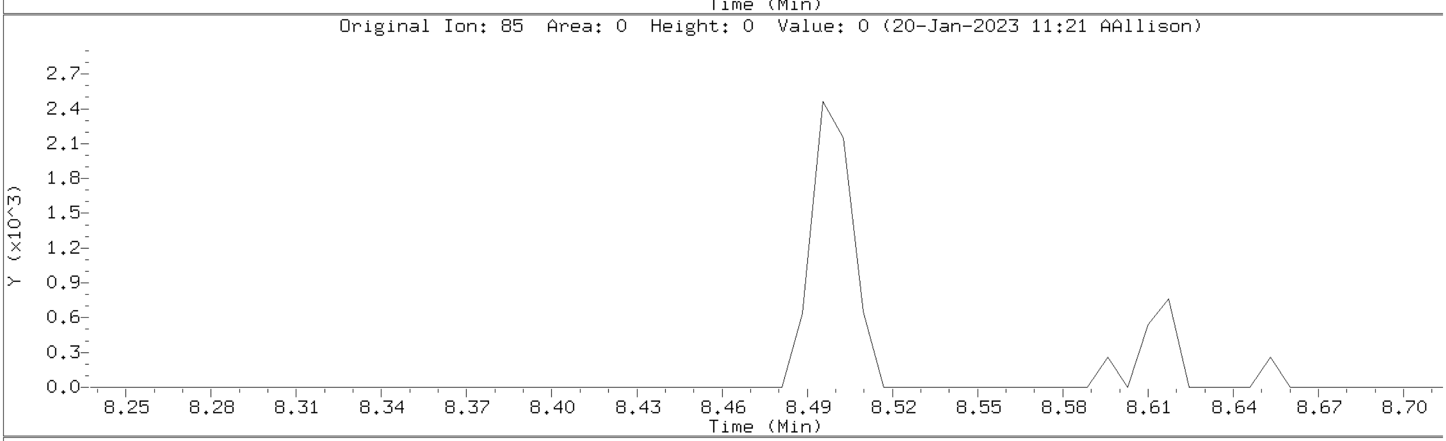
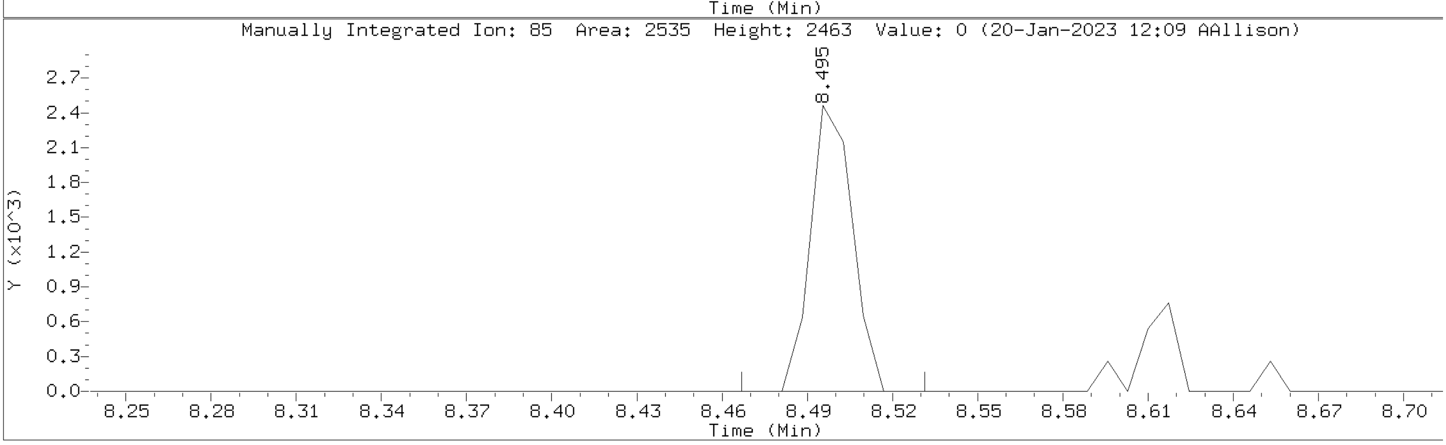
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5









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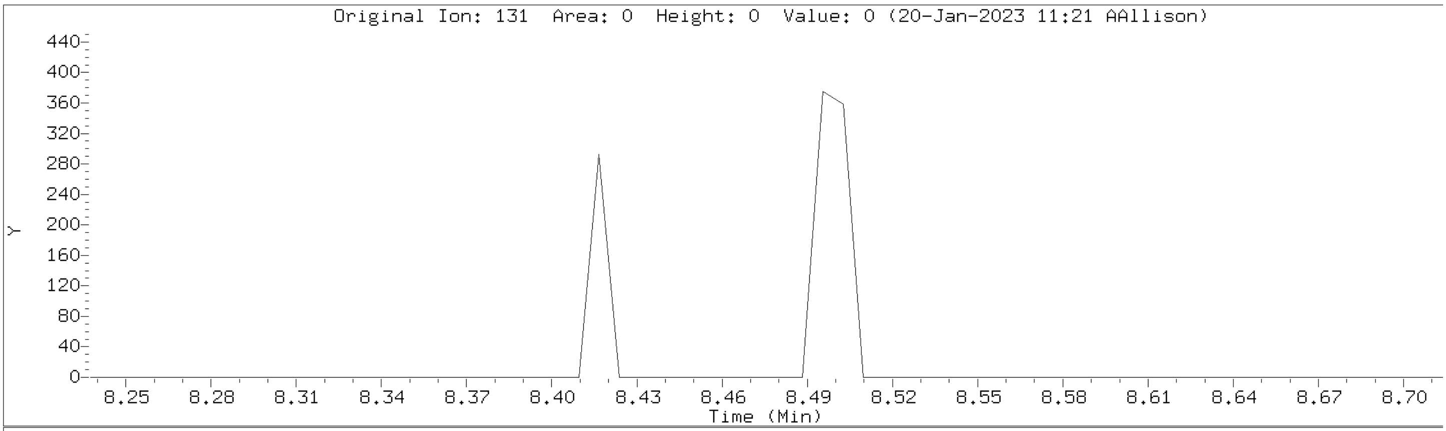
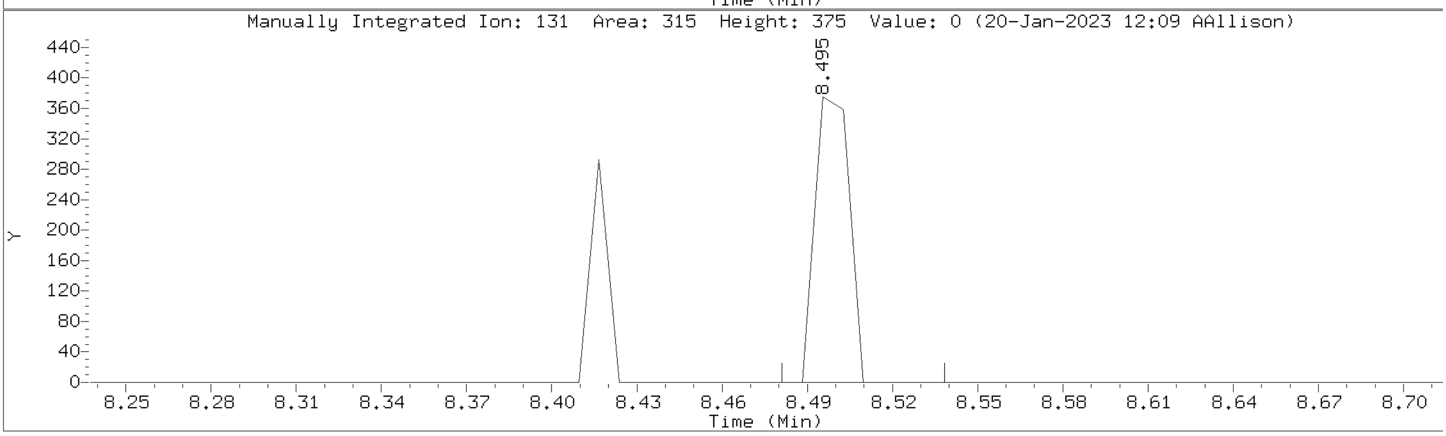
Lab Sample ID: 8260-CAL2





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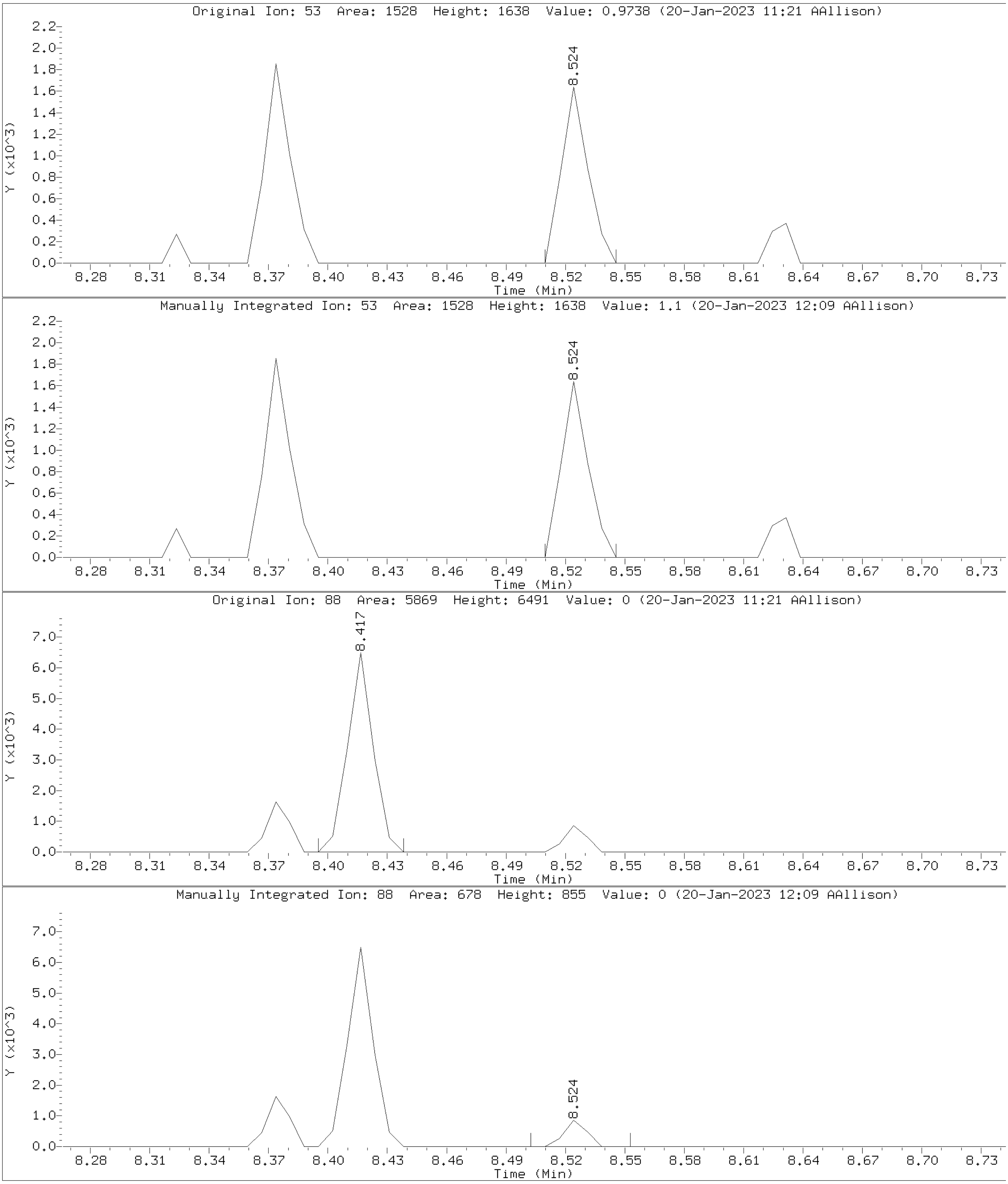
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: trans-1,4-Dichloro-2-butene   Review Code: WP
CAS Number:



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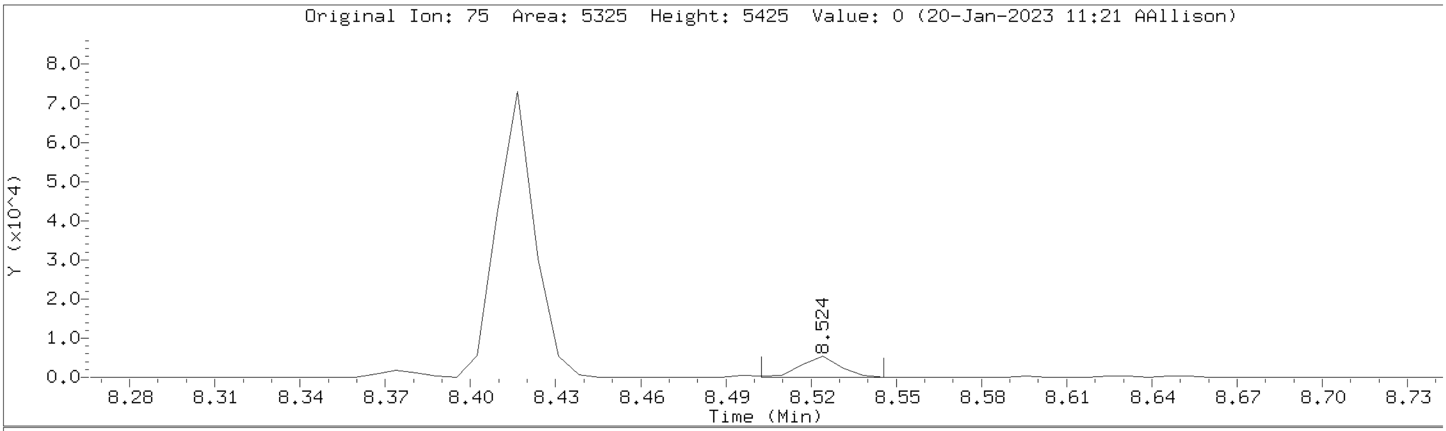
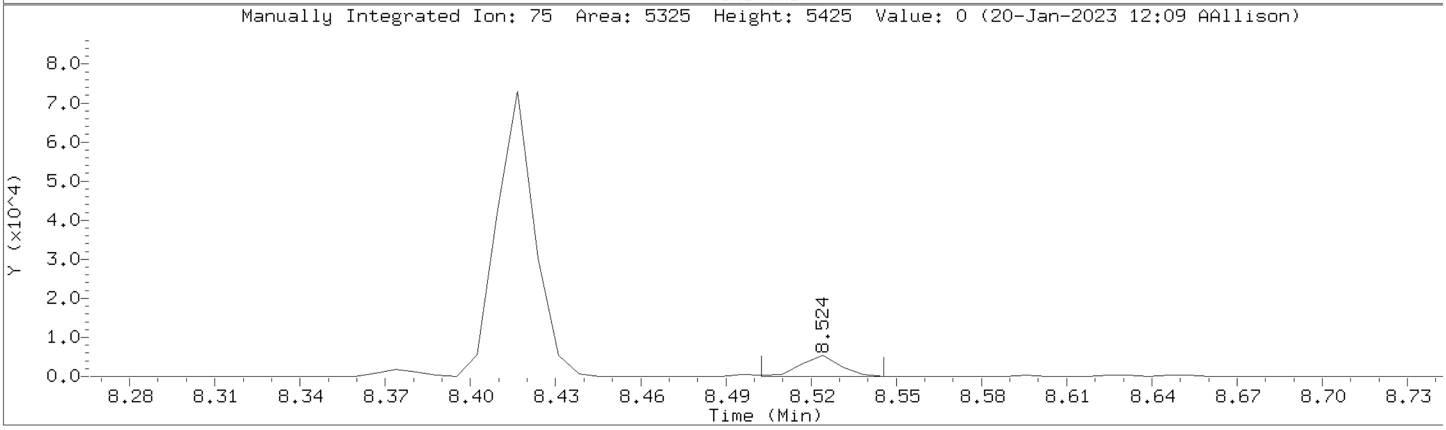
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Original Ion: 75 Area: 5325 Height: 5425 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 75 Area: 5325 Height: 5425 Value: 0 (20-Jan-2023 12:09 AAllison)



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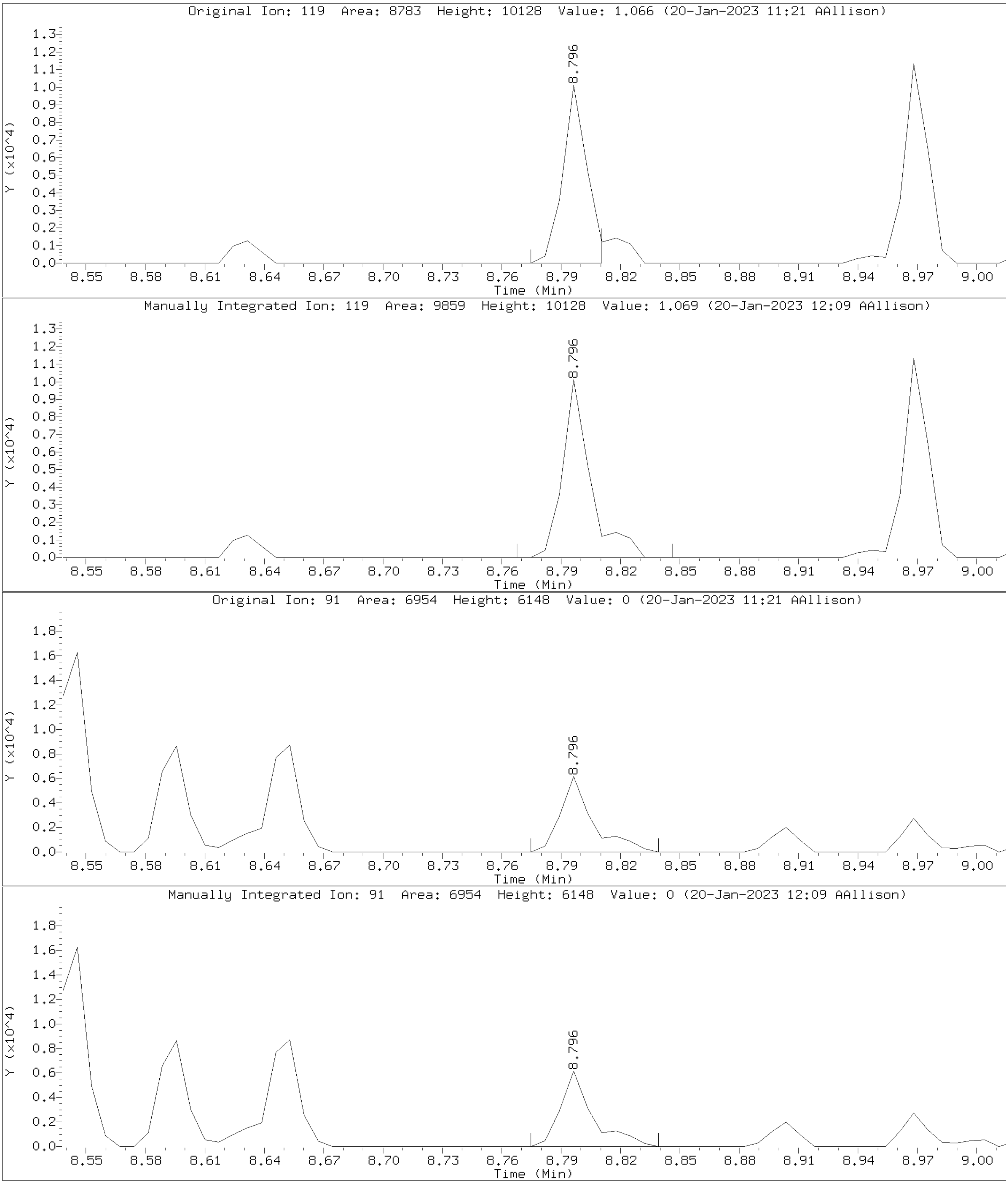
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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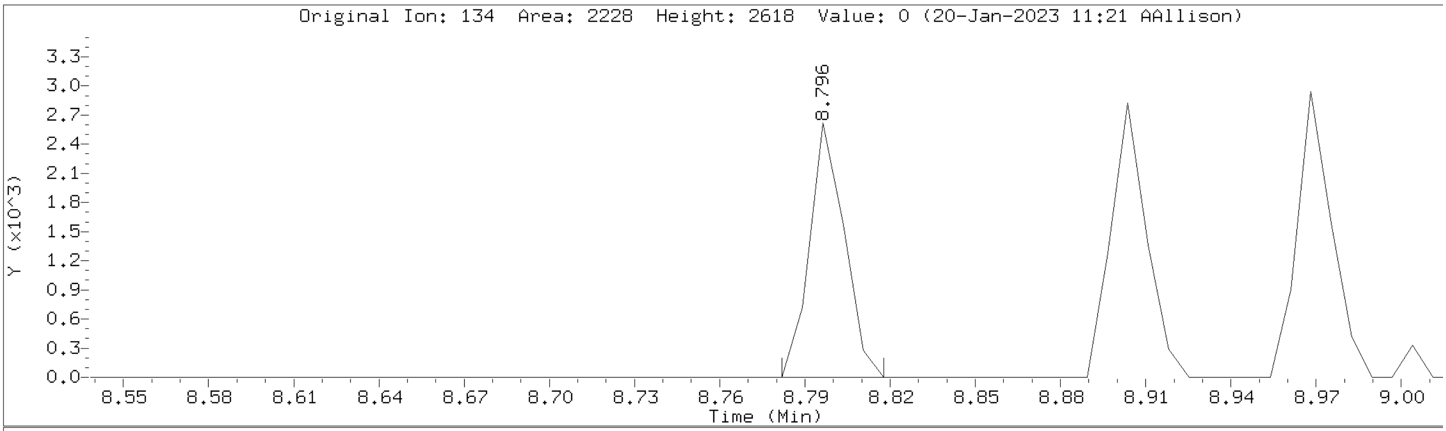
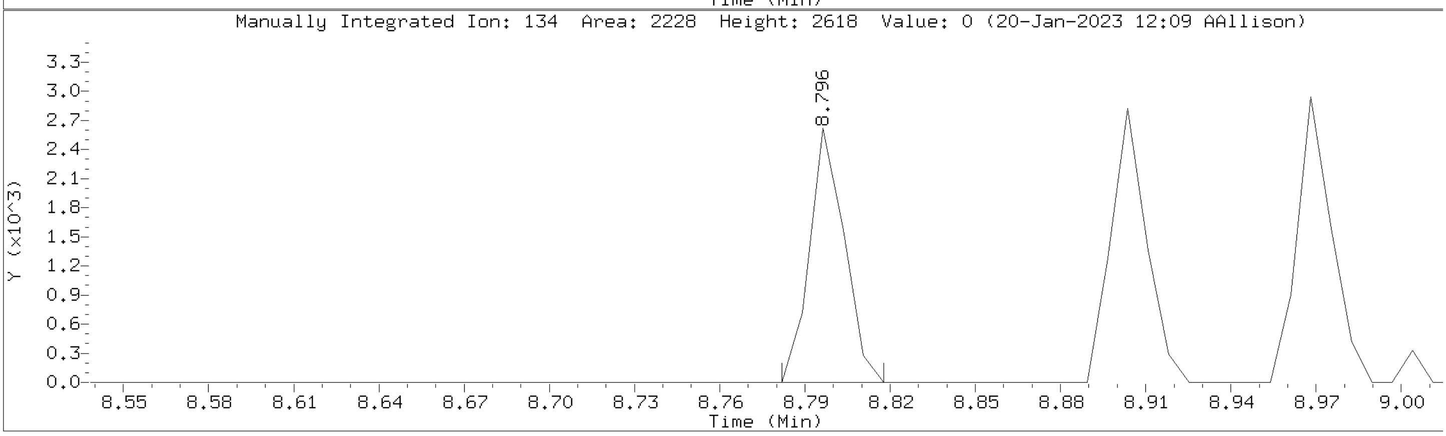
Lab Sample ID: 8260-CAL2





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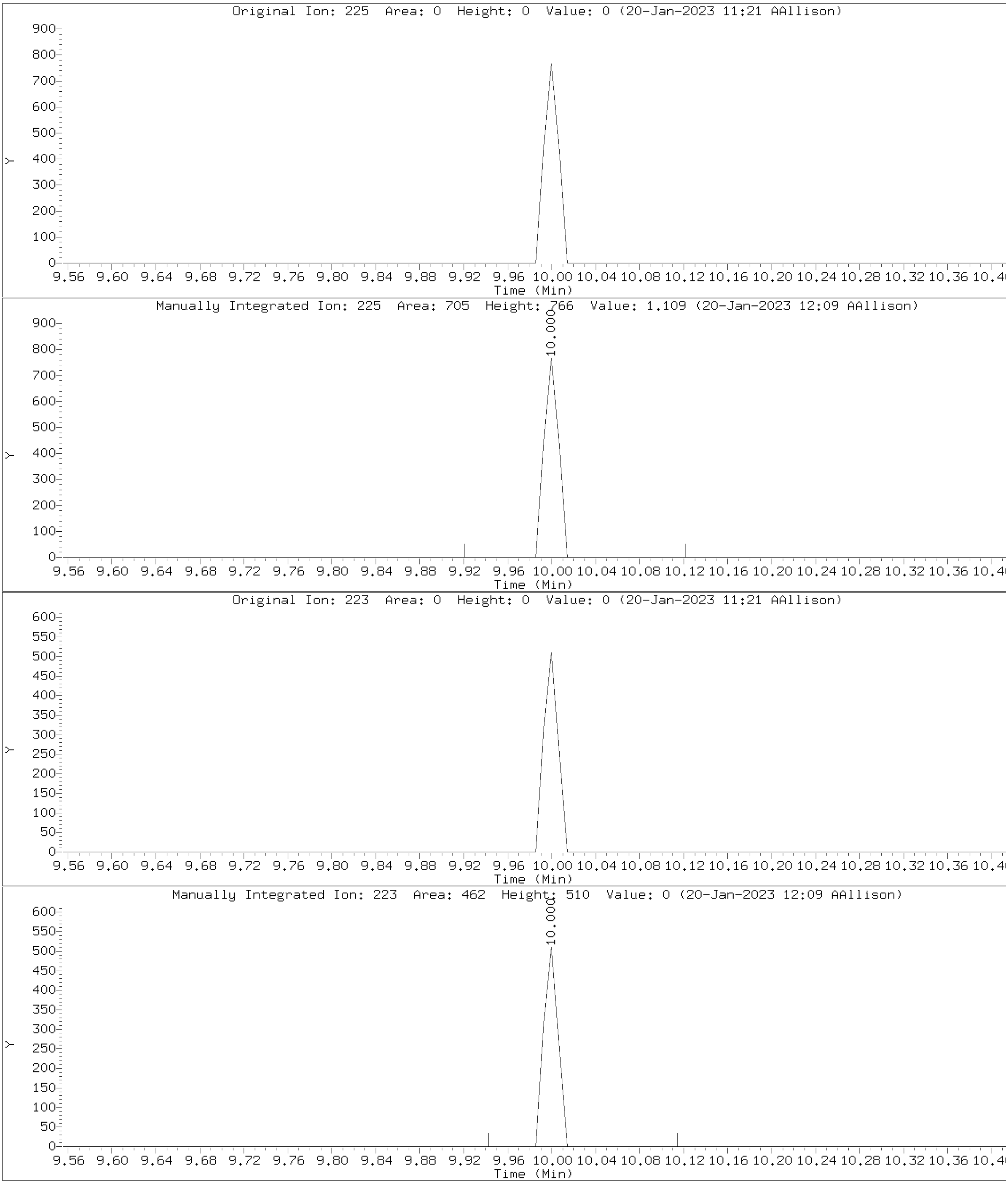
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Hexachlorobutadiene   Review Code: NI
CAS Number: 87-68-3



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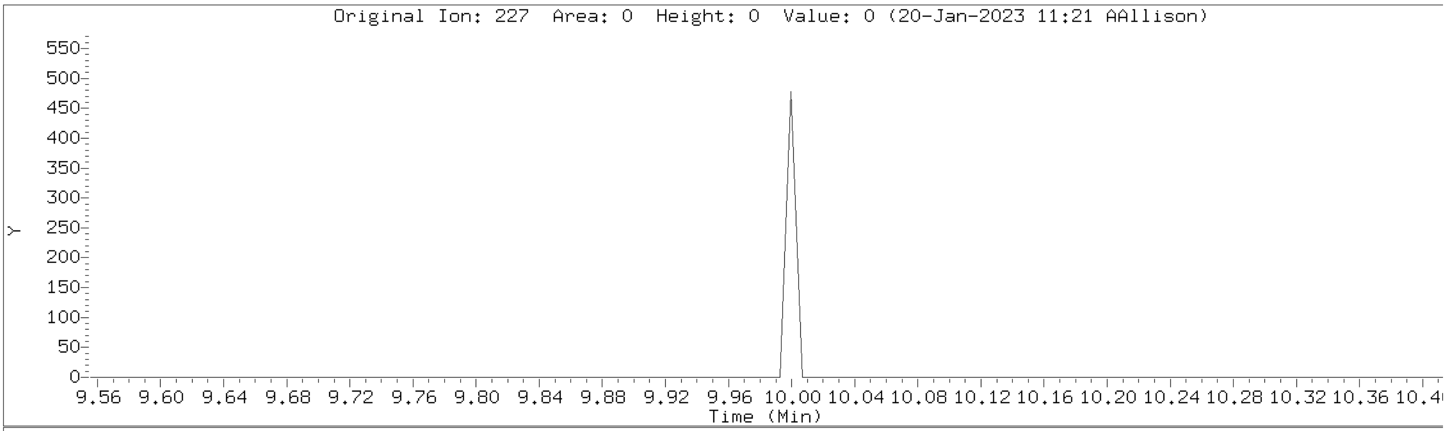
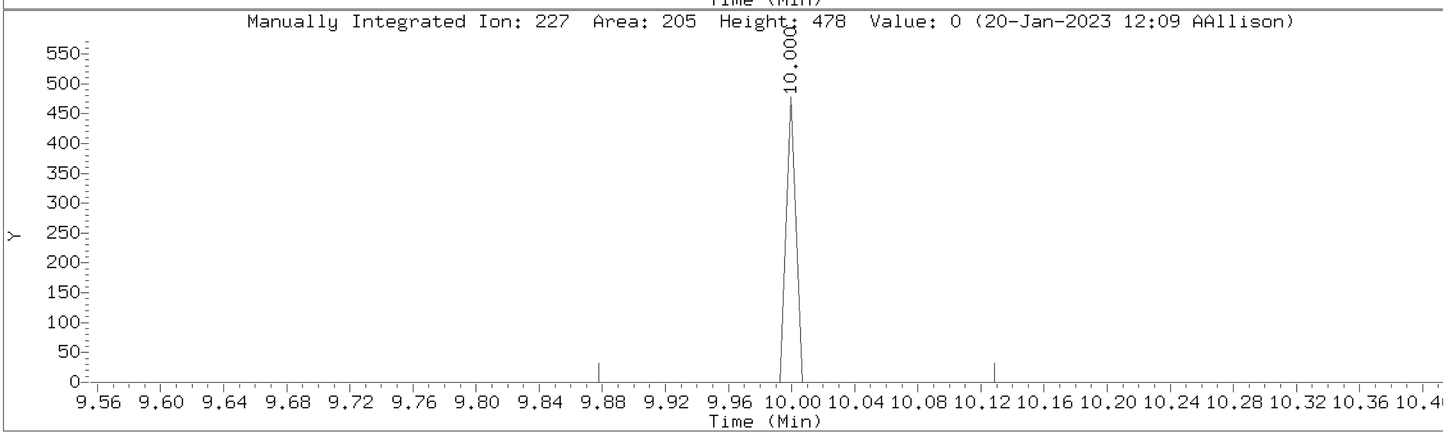
Lab Sample ID: 8260-CAL2





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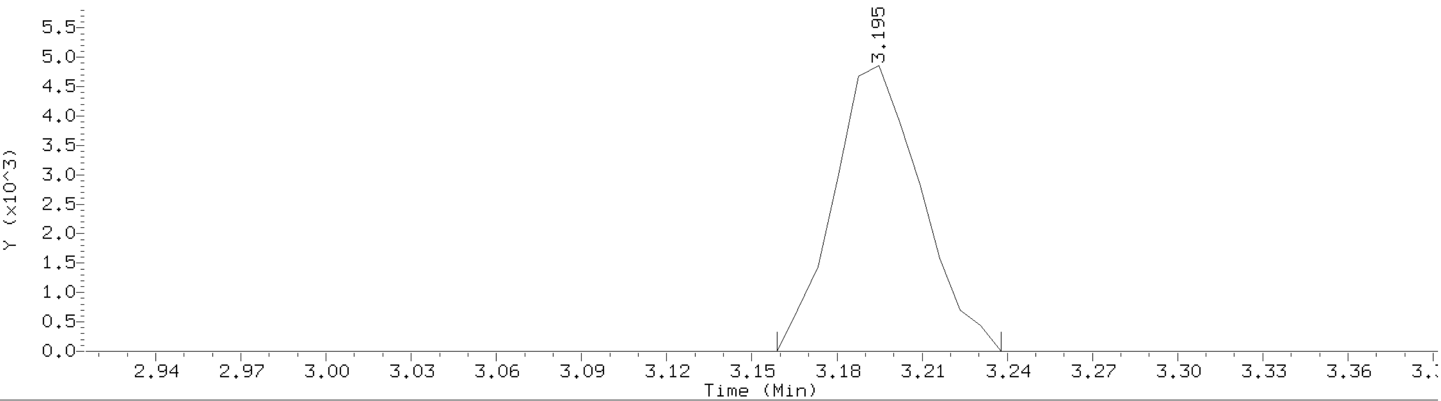
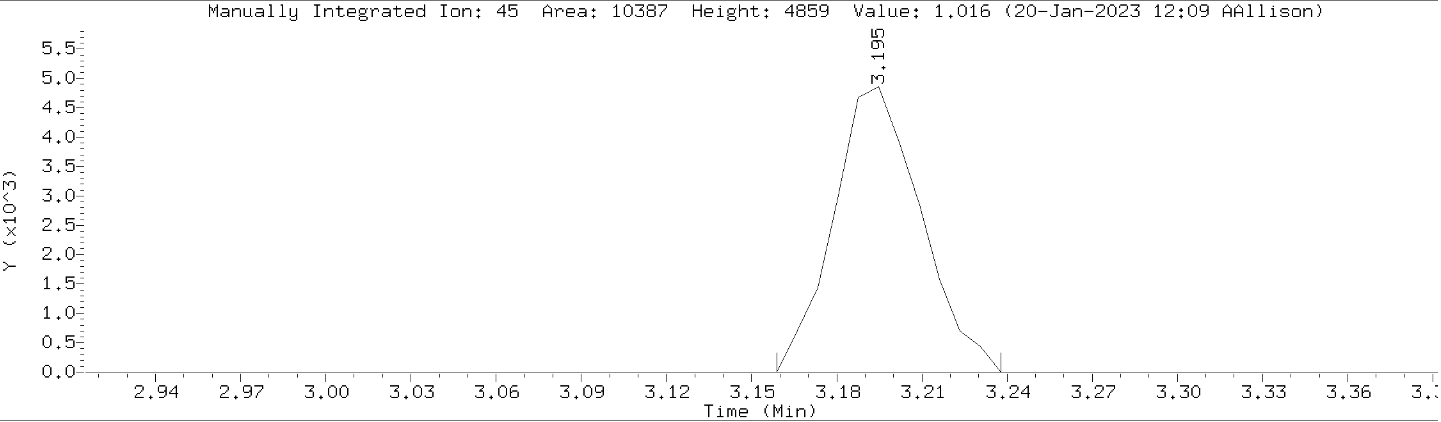
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: Diisopropyl ether   Review Code: GT
CAS Number: 108-20-3

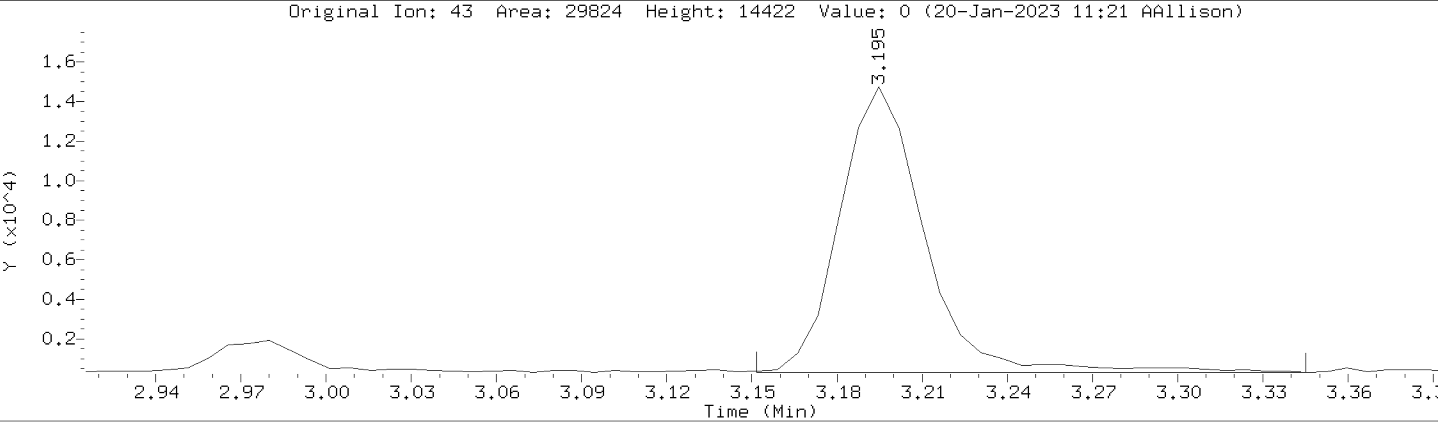
Original Ion: 45 Area: 10387 Height: 4859 Value: 1.011 (20-Jan-2023 11:21 AAllison)



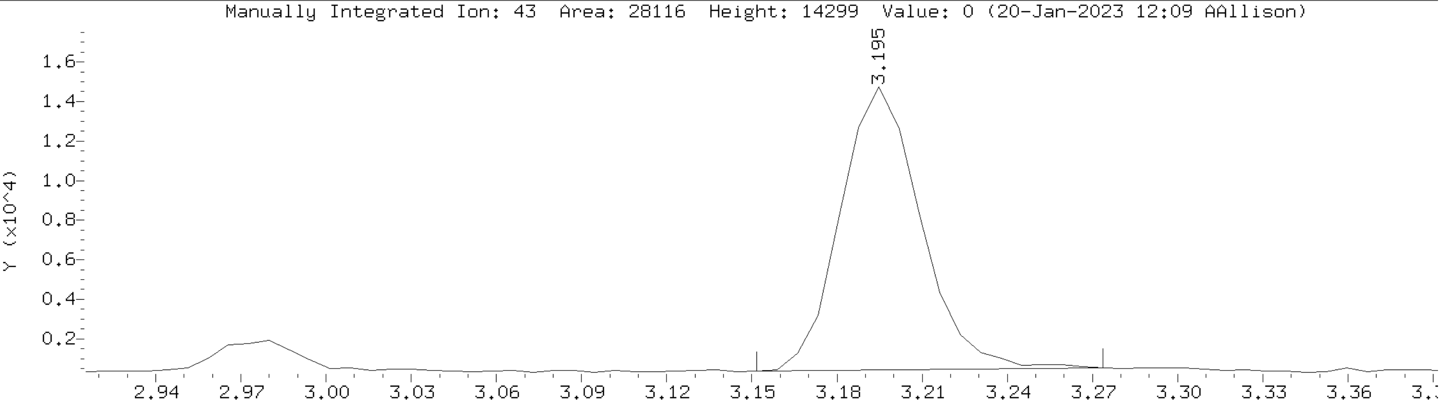
Manually Integrated Ion: 45 Area: 10387 Height: 4859 Value: 1.016 (20-Jan-2023 12:09 AAllison)



Original Ion: 43 Area: 29824 Height: 14422 Value: 0 (20-Jan-2023 11:21 AAllison)

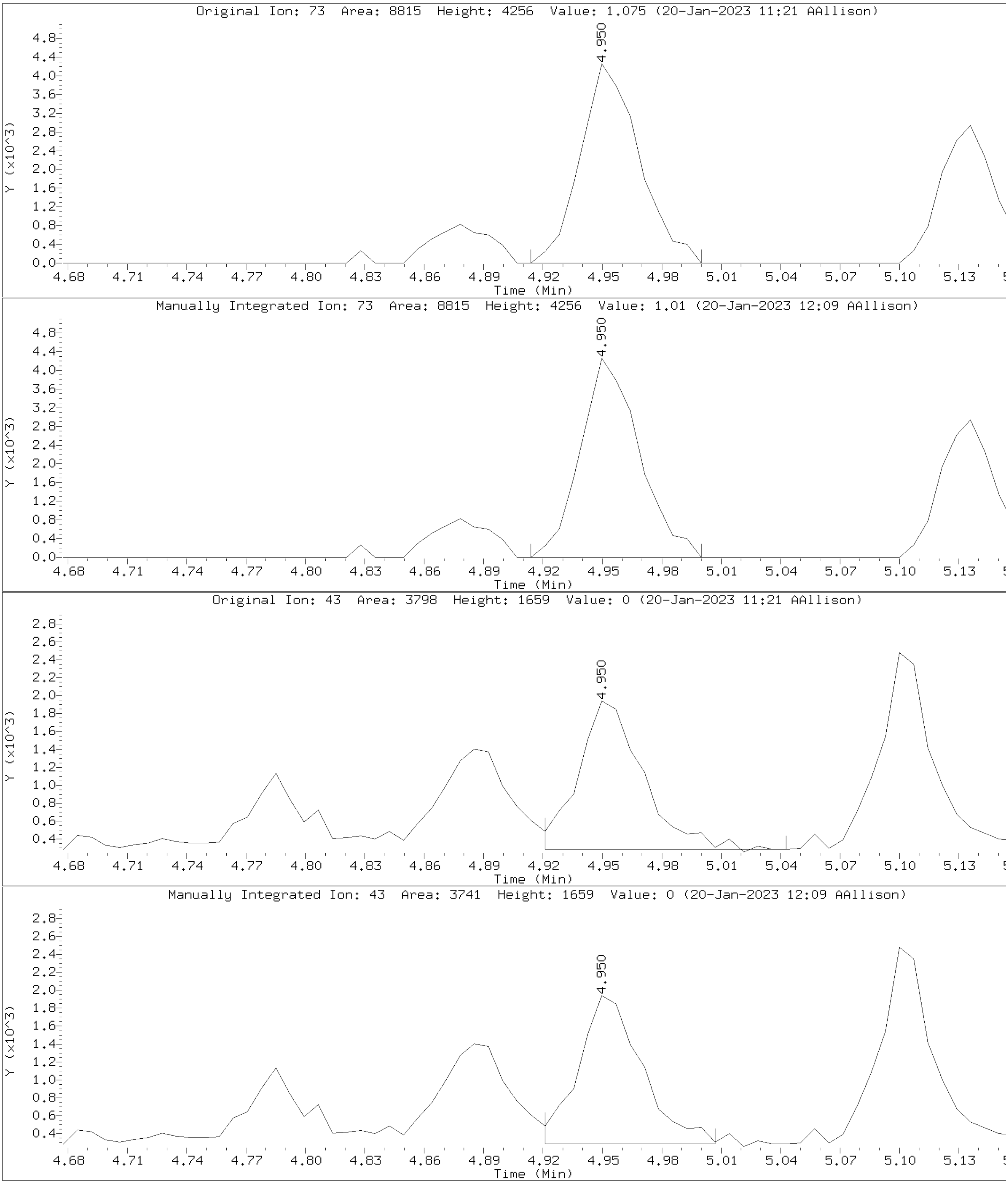


Manually Integrated Ion: 43 Area: 28116 Height: 14299 Value: 0 (20-Jan-2023 12:09 AAllison)



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a05.d
Injection Date: 19-JAN-2023 15:17
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL2

Compound: tert-Amylmethyl ether   Review Code: GT
CAS Number: 994-05-8



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a06.d
Lab Smp Id: 8260-CAL3 Client Smp ID: 8260-CAL3
Inj Date : 19-JAN-2023 15:46
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal3,335779:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.224	1.218	(0.238)	6065	2.00000	2.10(TM)	LT
2 Chloromethane	50	1.425	1.397	(0.278)	6863	2.00000	2.06	
3 Vinyl Chloride	62	1.403	1.397	(0.273)	6067	2.00000	2.35(M)	LT
4 Bromomethane	94	1.604	1.597	(0.312)	4413	2.00000	1.71	
5 Chloroethane	64	1.661	1.655	(0.324)	3654	2.00000	2.12	
6 Trichlorofluoromethane	101	1.819	1.805	(0.354)	6422	2.00000	2.12	
7 Diethyl ether	74	1.991	1.977	(0.388)	3695	2.00000	1.87	
8 Acrolein	56	2.098	2.085	(0.409)	27169	40.0000	39.1(M)	GT
9 1,1,2trichlorotrifluoroethane	101	2.148	2.134	(0.418)	4785	2.00000	1.97	
10 1,1-Dichloroethene	96	2.163	2.149	(0.421)	5045	2.00000	1.83	
11 Acetone	43	2.206	2.192	(0.430)	14122	10.0000	9.37	
12 Iodomethane	142	2.284	2.271	(0.445)	3773	2.00000	1.85(M)	LT
13 Carbon Disulfide	76	2.335	2.321	(0.455)	16149	2.00000	1.95	
14 Acetonitrile	39	2.428	2.407	(0.473)	9591	10.0000	9.64(M)	GT
15 allyl chloride	41	2.428	2.407	(0.473)	15157	2.00000	1.96	
16 Methyl Acetate	43	2.435	2.421	(0.474)	35069	10.0000	9.78	
17 Methylene Chloride	84	2.528	2.507	(0.492)	9508	2.00000	1.99	
18 tert-Butyl Alcohol	59	2.607	2.586	(0.508)	6119	10.0000	9.63	
19 Acrylonitrile	53	2.743	2.722	(0.534)	17125	10.0000	10.2	
20 Methyl-tert-butyl ether	73	2.743	2.722	(0.534)	15902	2.00000	1.93	
21 1,2-Dichloroethene (trans)	96	2.750	2.729	(0.536)	6477	2.00000	1.97	
22 n-Hexane	57	2.972	2.951	(0.579)	10935	2.00000	2.06	
23 1,1-Dichloroethane	63	3.151	3.130	(0.614)	9593	2.00000	1.99	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	3.187	3.166	(0.621)	59394	8.00000	7.95	
25 Diisopropyl ether	45	3.187	3.166	(0.621)	21125	2.00000	2.06	
26 chloroprene	53	3.237	3.209	(0.630)	8249	2.00000	1.98	
27 Ethyl-tert-butyl ether	59	3.595	3.567	(0.700)	17313	2.00000	2.04	
28 2,2-Dichloropropane	77	3.796	3.768	(0.739)	7733	2.00000	1.96	
29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.741)	7335	2.00000	1.96(M)	LT
30 2-Butanone	43	3.846	3.811	(0.749)	26801	10.0000	10.3	
31 Ethyl Acetate	88	3.910	3.868	(0.761)	1705	10.0000	9.61	
32 Propionitrile	54	3.946	3.911	(0.768)	7021	10.0000	9.74	
33 Methacrylonitrile	41	4.111	4.090	(0.801)	39006	10.0000	9.26(M)	LT
34 Bromochloromethane	49	4.104	4.075	(0.799)	5149	2.00000	2.04	
35 Tetrahydrofuran	42	4.161	4.133	(0.810)	20818	10.0000	9.80	
36 Chloroform	83	4.197	4.176	(0.817)	9593	2.00000	1.90	
$ 37 Dibromofluoromethane (S)	113	4.390	4.362	(0.855)	116832	50.0000	49.5	
38 1,1,1-Trichloroethane	97	4.398	4.370	(0.856)	8393	2.00000	1.95	
39 Cyclohexane	56	4.441	4.413	(0.865)	10855	2.00000	1.98	
40 Carbon Tetrachloride	117	4.577	4.549	(0.891)	7559	2.00000	2.07	
41 1,1-Dichloropropene	75	4.584	4.563	(0.893)	6819	2.00000	1.99	
42 Isobutyl alcohol	43	4.777	4.749	(0.930)	2809	10.0000	11.2	
43 Benzene	78	4.820	4.799	(0.939)	22402	2.00000	2.00	
44 1,2-Dichloroethane	62	4.863	4.842	(0.947)	7073	2.00000	1.95	
45 2,2,4-Trimethylpentane	57	4.892	4.864	(0.953)	14574	2.00000	1.82	
46 tert-Amylmethyl ether	73	4.949	4.928	(0.964)	17290	2.00000	1.99(M)	GT
* 47 Fluorobenzene	96	5.135	5.107	(1.000)	467191	50.0000		
48 Trichloroethene	95	5.515	5.494	(1.074)	5806	2.00000	2.04	
49 Methylcyclohexane	55	5.694	5.673	(1.109)	8721	2.00000	1.94	
50 1,2-Dichloropropane	63	5.766	5.745	(1.123)	5821	2.00000	1.96(M)	NI
51 Dibromomethane	93	5.887	5.867	(1.146)	3648	2.00000	2.04	
52 1,4-Dioxane	88	5.923	5.902	(1.153)	563	40.0000	28.1	
53 Methyl methacrylate	69	5.902	5.881	(1.149)	5639	2.00000	2.06(M)	GT
54 Bromodichloromethane	83	6.052	6.031	(1.179)	6934	2.00000	1.97	
55 2-Chloroethyl vinyl ether	63	6.367	6.347	(0.822)	21534	10.0000	10.2	
56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	9169	2.00000	2.07	
57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	53025	10.0000	10.4	
$ 58 Toluene-d8	98	6.711	6.698	(0.867)	438905	50.0000	50.0	
59 Toluene	91	6.769	6.748	(0.874)	25910	2.00000	2.00	
60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	8298	2.00000	2.00	
61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	8529	2.00000	2.04	
62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	4161	2.00000	2.01	
63 Tetrachloroethene	166	7.177	7.163	(0.927)	5931	2.00000	2.01	
64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	8095	2.00000	1.98	
65 2-Hexanone	43	7.284	7.271	(0.941)	42461	10.0000	10.2	
66 Dibromochloromethane	129	7.377	7.364	(0.953)	5484	2.00000	1.97	
67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	5314	2.00000	1.99	
* 68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	330287	50.0000		
69 Chlorobenzene	112	7.757	7.751	(1.002)	15635	2.00000	2.03	
70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	5433	2.00000	2.03	
71 Ethylbenzene	106	7.822	7.815	(1.010)	8538	2.00000	1.98	
72 m&p-Xylene	106	7.893	7.887	(1.019)	10771	2.00000	2.06	
73 o-Xylene	106	8.122	8.116	(1.049)	10018	2.00000	2.01	
74 Styrene	104	8.137	8.122	(1.051)	17076	2.00000	1.98	
75 Bromoform	173	8.251	8.238	(0.916)	3955	2.00000	1.98(M)	NI
76 Isopropylbenzene	105	8.323	8.316	(1.075)	25880	2.00000	2.00	
$ 77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	136201	50.0000	49.4	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	8901	2.00000	1.99	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	7603	2.00000	2.04(M)	NI
80 1,2,3-Trichloropropane	110	8.523	8.516	(0.947)	2540	2.00000	2.16	
81 trans-1,4-Dichloro-2-butene	53	8.523	8.516	(1.101)	2890	2.00000	2.05	
82 n-Propylbenzene	91	8.545	8.538	(0.949)	30911	2.00000	2.04	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	16106	2.00000	1.98	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	19718	2.00000	2.04	
85 4-Chlorotoluene	126	8.652	8.638	(0.961)	6015	2.00000	2.04	
86 tert-Butylbenzene	119	8.796	8.789	(0.977)	18934	2.00000	2.02(M)	LT
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.979)	19979	2.00000	2.06(M)	GT
88 sec-Butylbenzene	105	8.903	8.897	(0.989)	23255	2.00000	2.00	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.996)	9993	2.00000	1.99	
90 p-Isopropyltoluene	119	8.968	8.961	(0.996)	19143	2.00000	2.02	
* 91 1,4-Dichlorobenzene-d4	152	9.003	8.997	(1.000)	148212	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.001)	10380	2.00000	1.99	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.002)	17446	2.00000	1.94	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	16500	2.00000	2.03	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.021)	8981	2.00000	2.12	
96 Hexachloroethane	201	9.311	9.312	(1.034)	2178	2.00000	1.88	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.062)	1340	2.00000	1.94	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.103)	2728	2.00000	1.92	
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	1253	2.00000	1.96	
100 Naphthalene	128	10.056	10.064	(1.117)	9267	2.00000	2.07	
101 1,2,3-Trichlorobenzene	180	10.178	10.179	(1.130)	1710	2.00000	2.07	
102 2,methyl-naphthalene	142	10.637	10.644	(1.181)	416	2.00000	2.04(M)	NI
103 1-Methylnaphthalene	142	10.758	10.766	(1.195)	268	2.00000	2.25(M)	NI

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).
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a06.d

Page 4

Date : 19-JAN-2023 15:46

Client ID: 8260-CAL3

Instrument: 50mvda.i

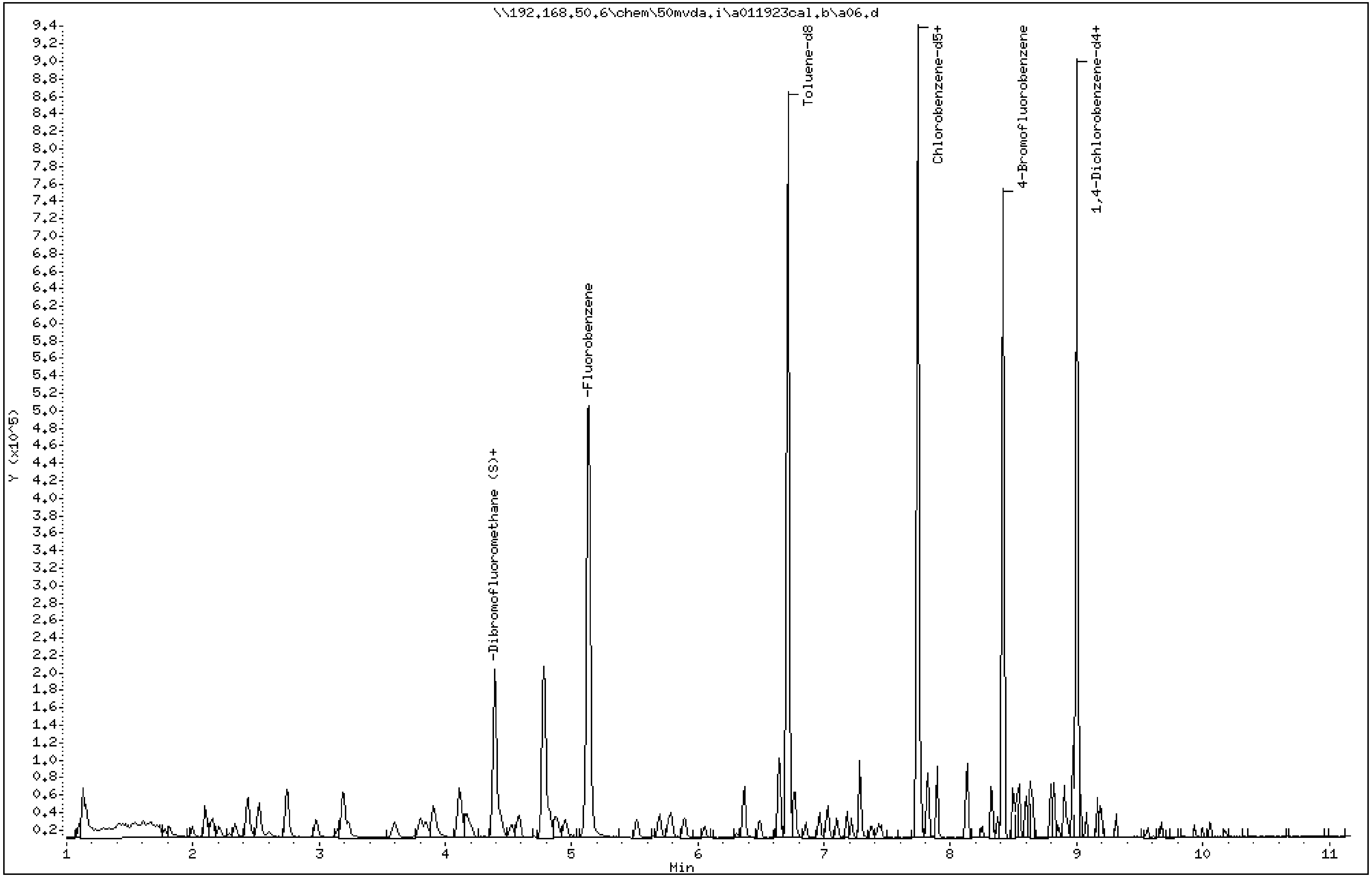
Sample Info: 8260-CAL3,335779:0

Purge Volume: 5.0

Operator: ala

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a06.d

Date : 19-JAN-2023 15:46

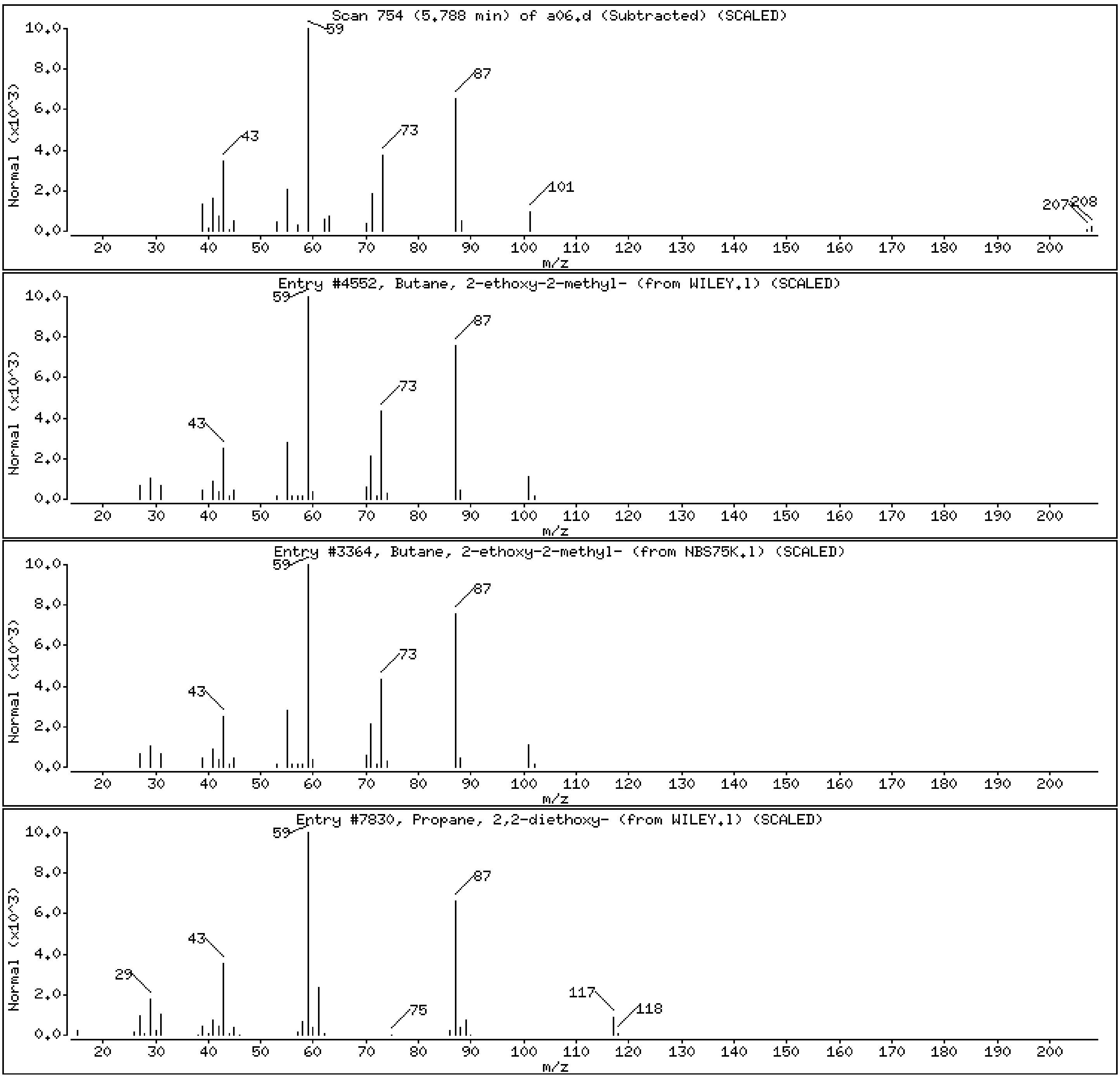
Client ID: 8260-CAL3 Instrument: 50mvda.i

Sample Info: 8260-CAL3,335779:0

Purge Volume: 5.0 Operator: ala

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-ethoxy-2-methyl-	919-94-8	WILEY.l	4552	53	C7H16O	116
Butane, 2-ethoxy-2-methyl-	919-94-8	NBS75K.l	3364	53	C7H16O	116
Propane, 2,2-diethoxy-	126-84-1	WILEY.l	7830	40	C7H16O2	132



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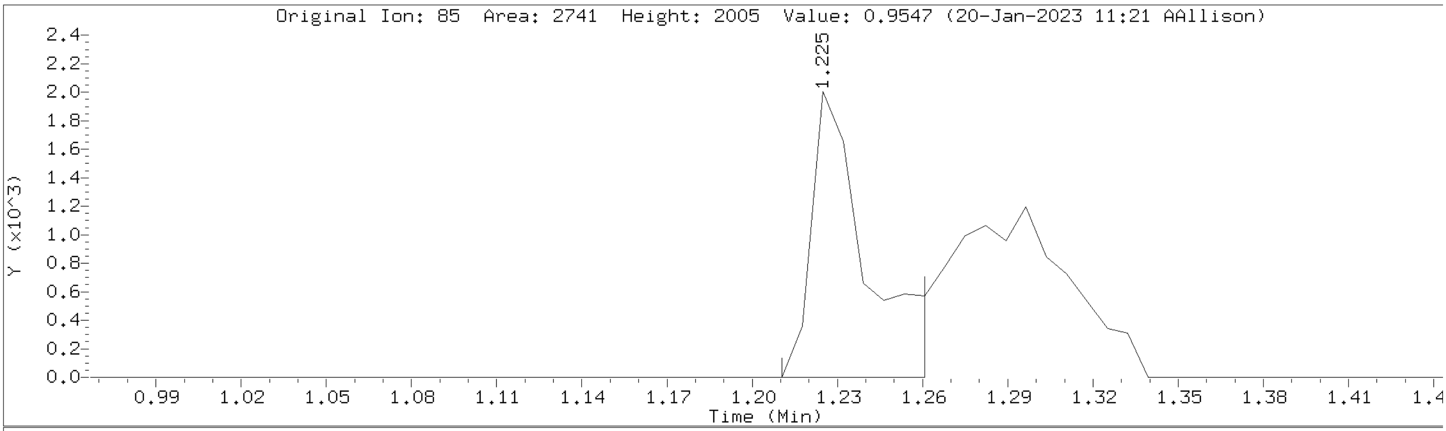
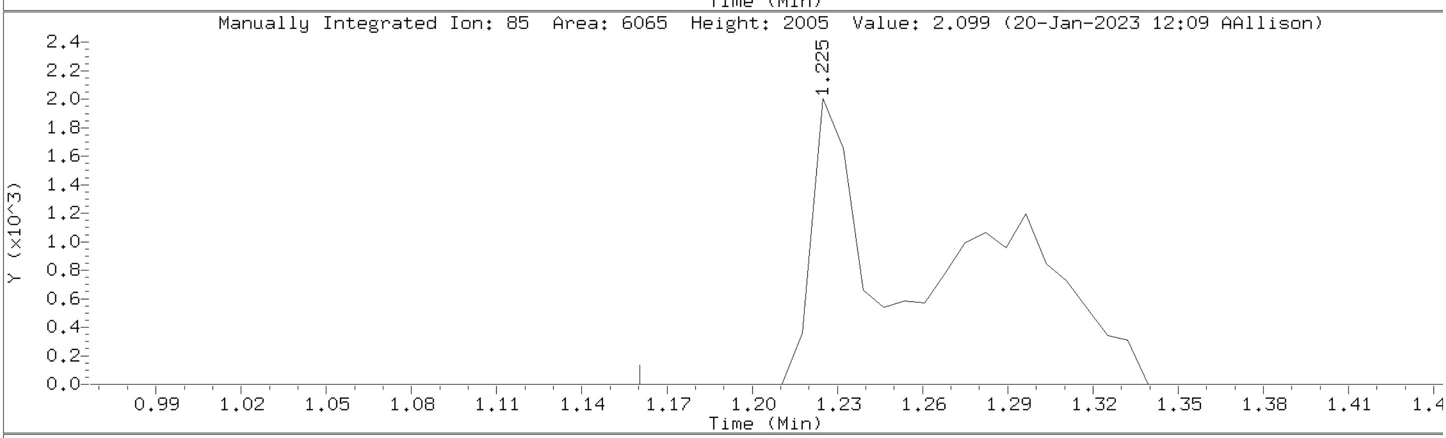
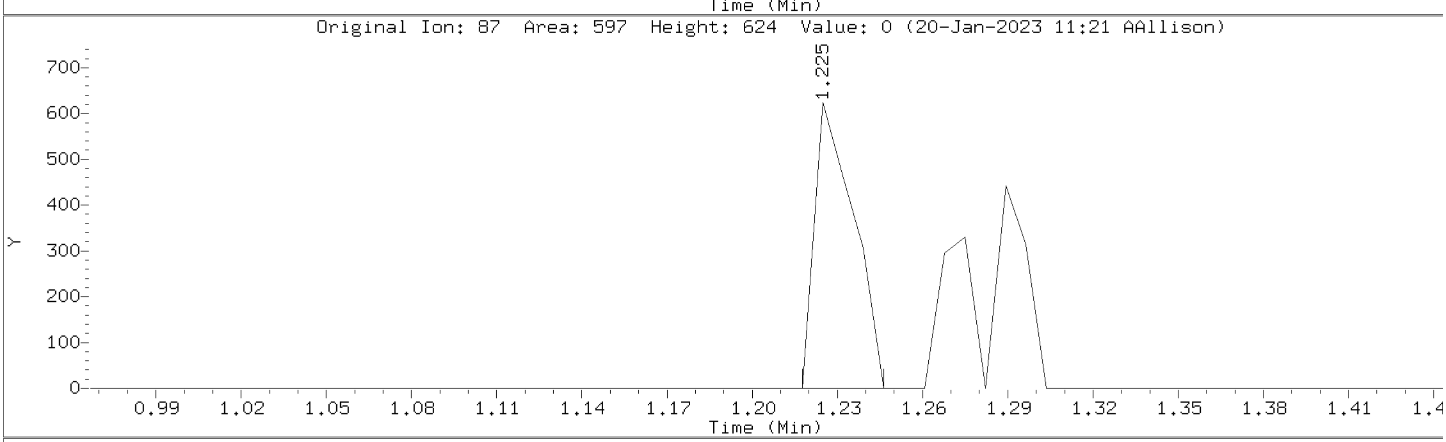
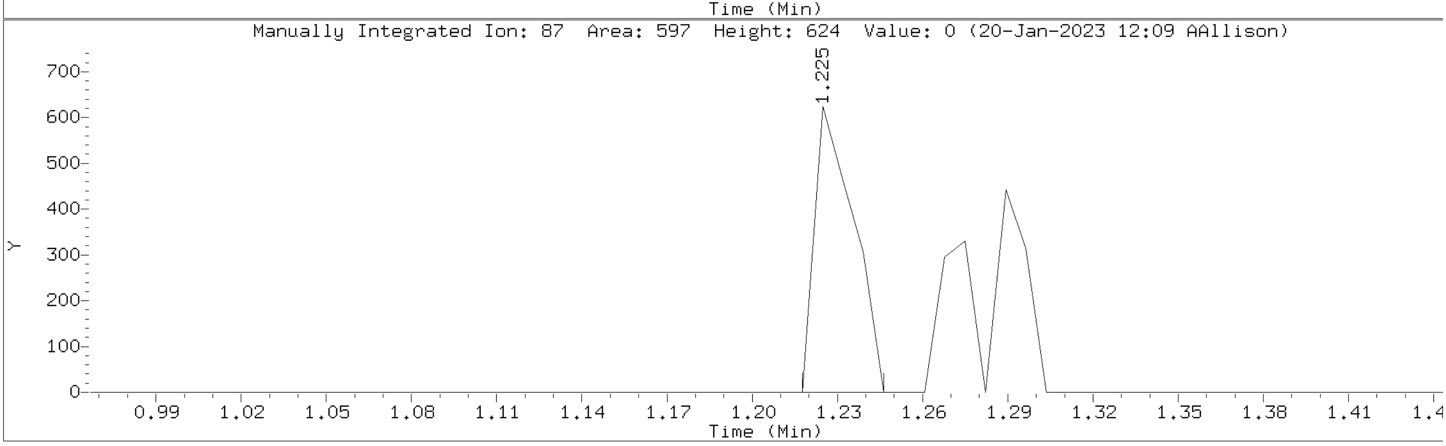
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4









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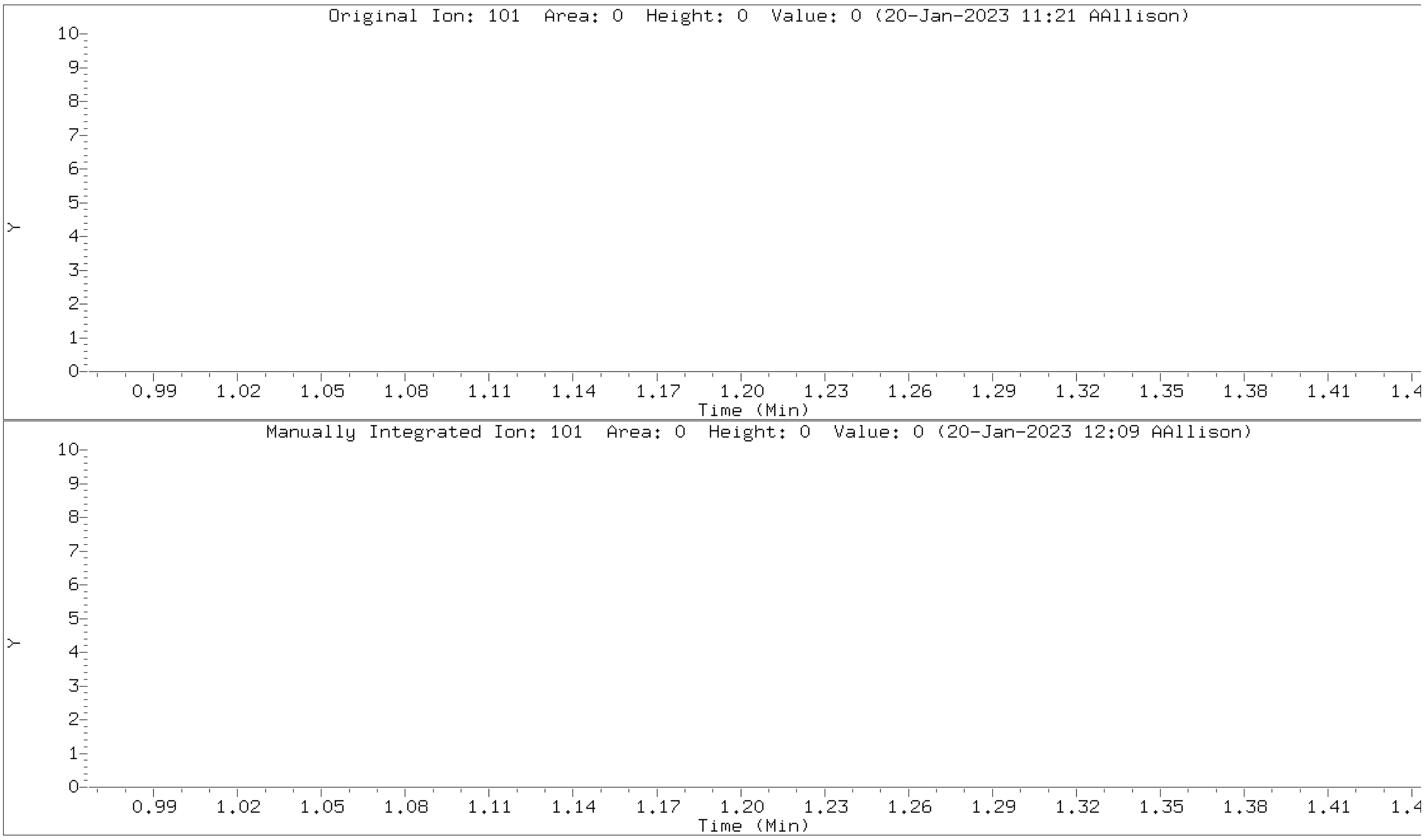
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3



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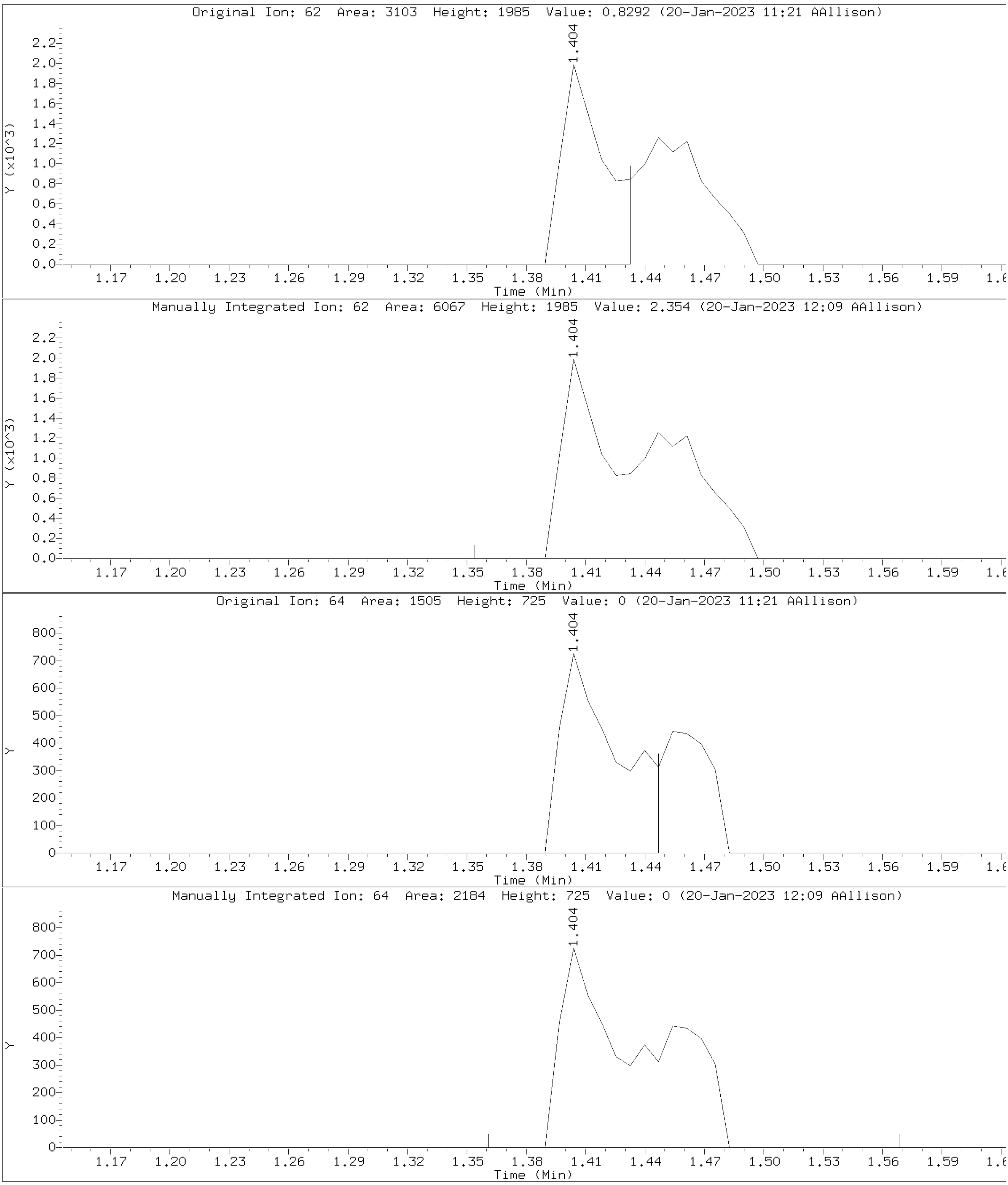
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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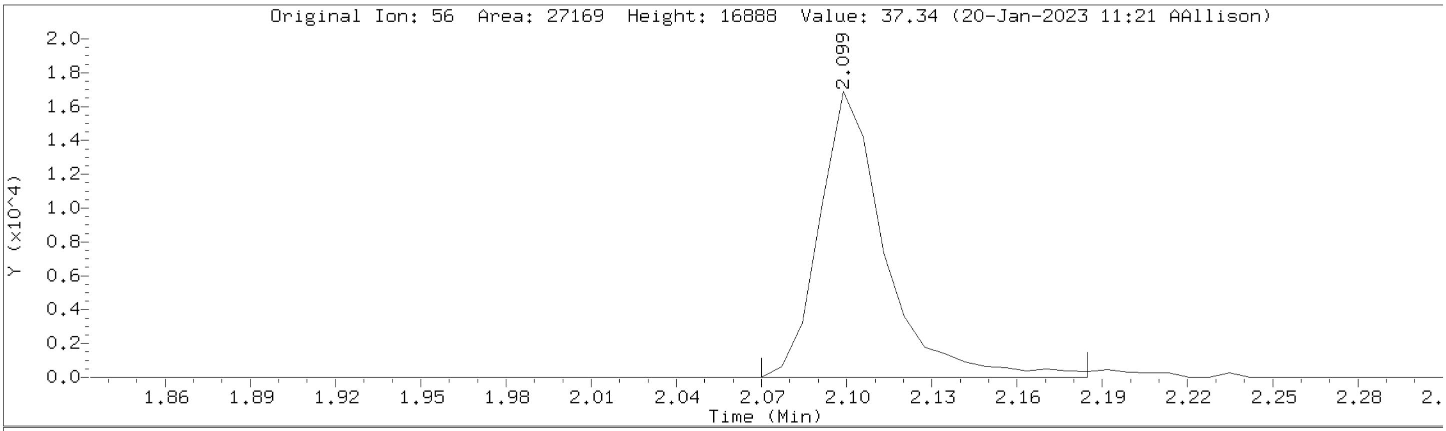
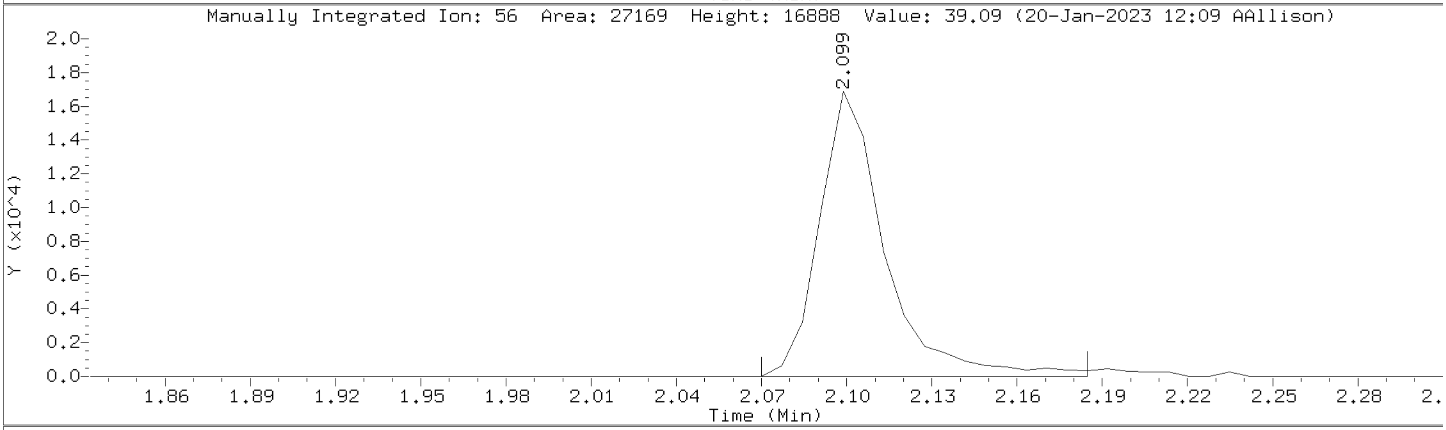
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Acrolein   Review Code: GT
CAS Number: 107-02-8

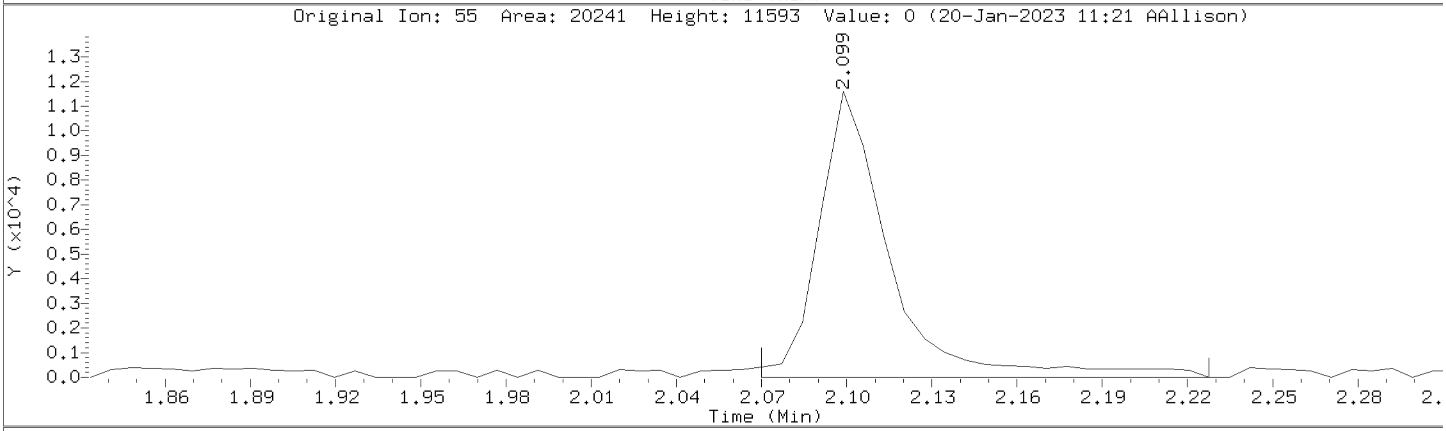
Original Ion: 56 Area: 27169 Height: 16888 Value: 37.34 (20-Jan-2023 11:21 AAllison)



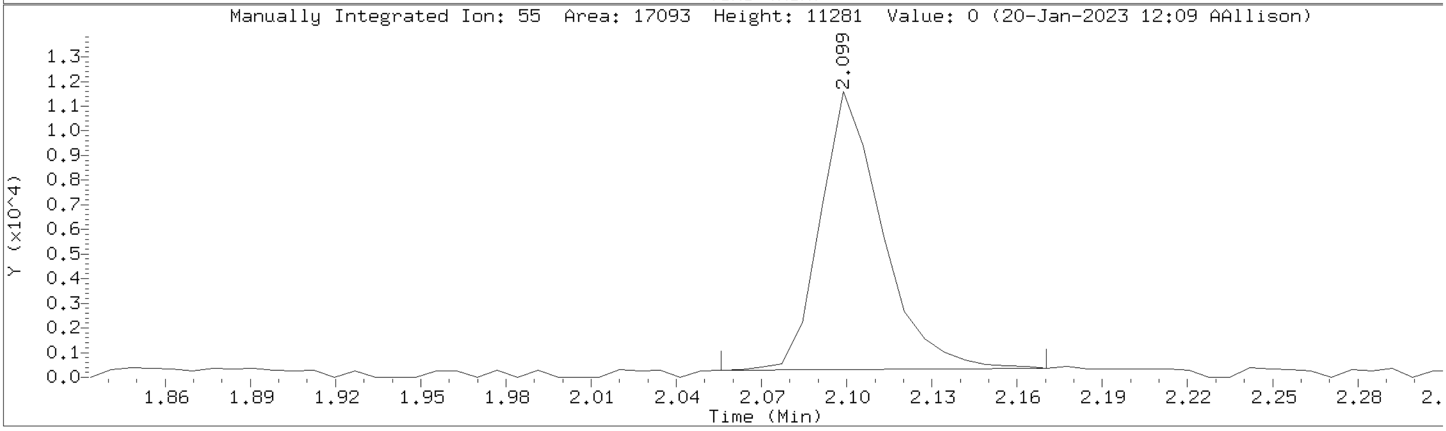
Manually Integrated Ion: 56 Area: 27169 Height: 16888 Value: 39.09 (20-Jan-2023 12:09 AAllison)



Original Ion: 55 Area: 20241 Height: 11593 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 55 Area: 17093 Height: 11281 Value: 0 (20-Jan-2023 12:09 AAllison)



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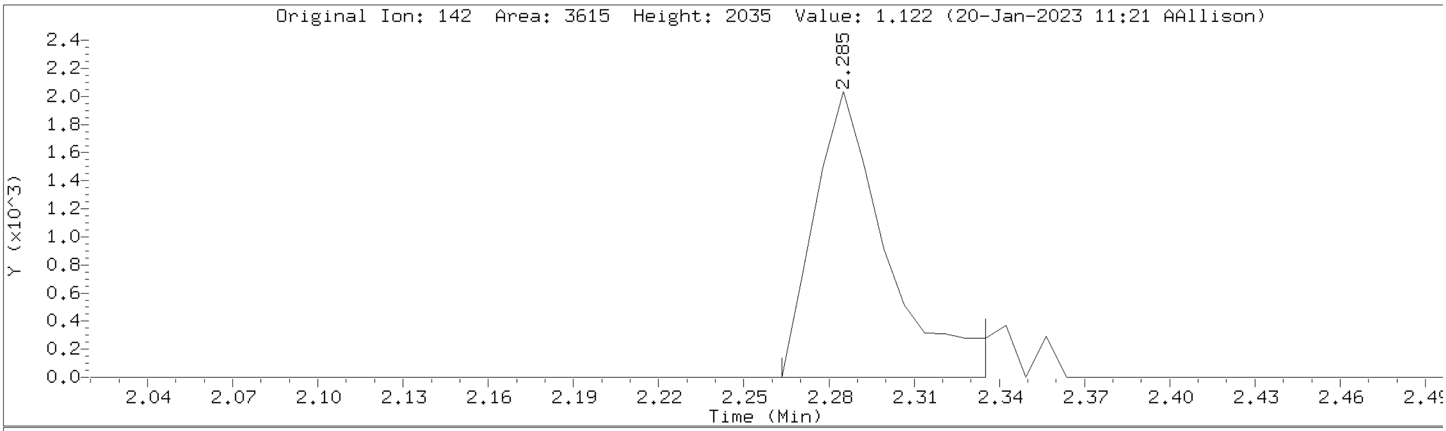
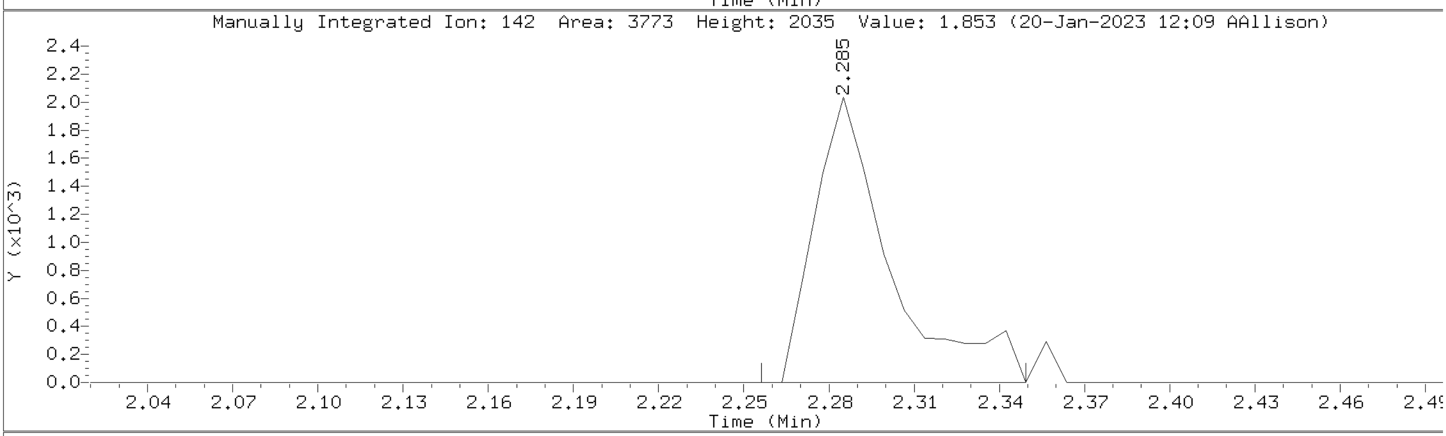
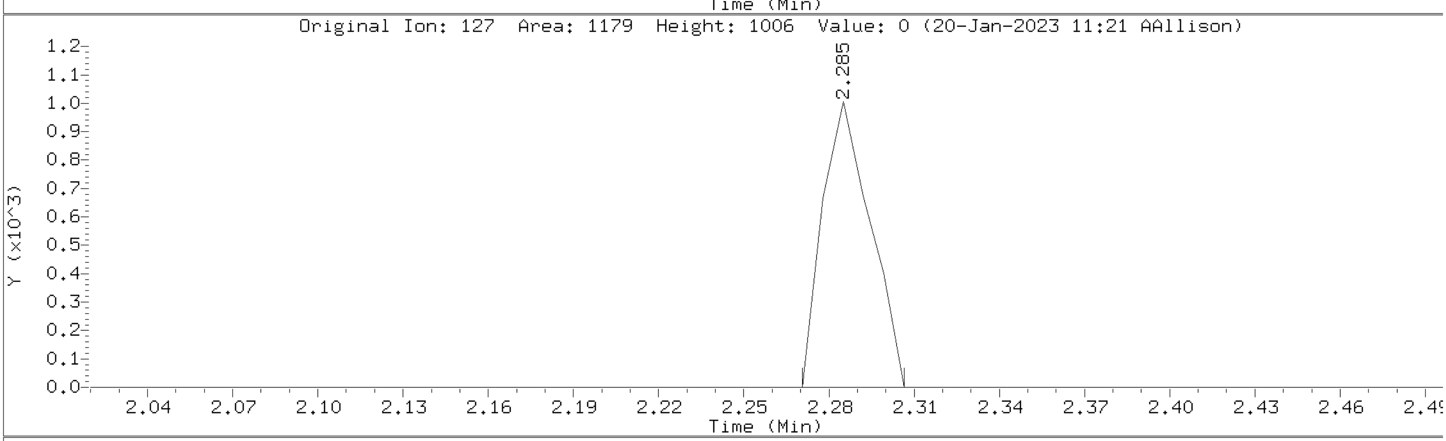
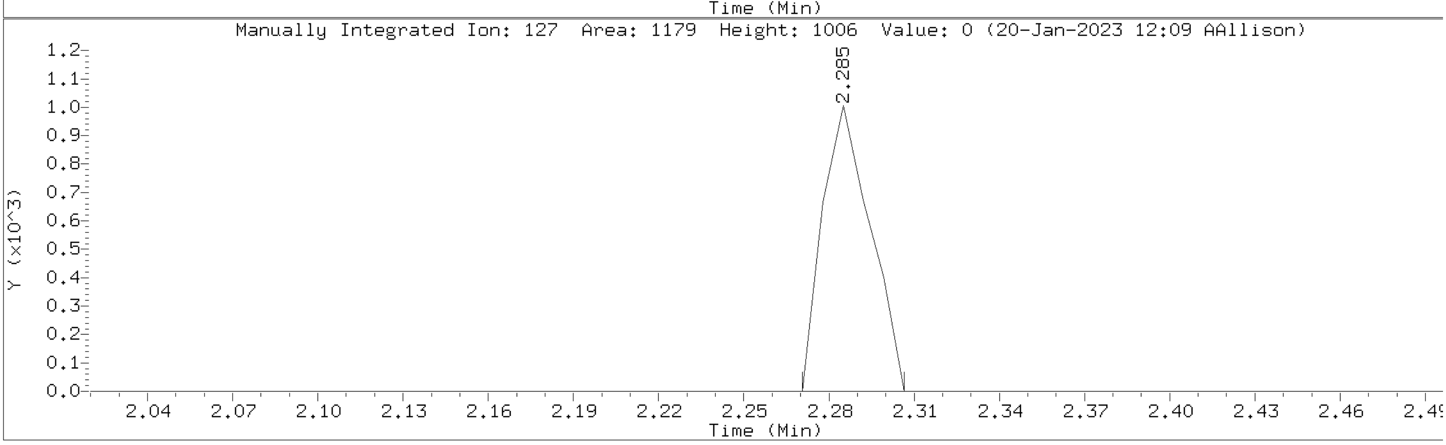
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Iodomethane   Review Code: LT
CAS Number:









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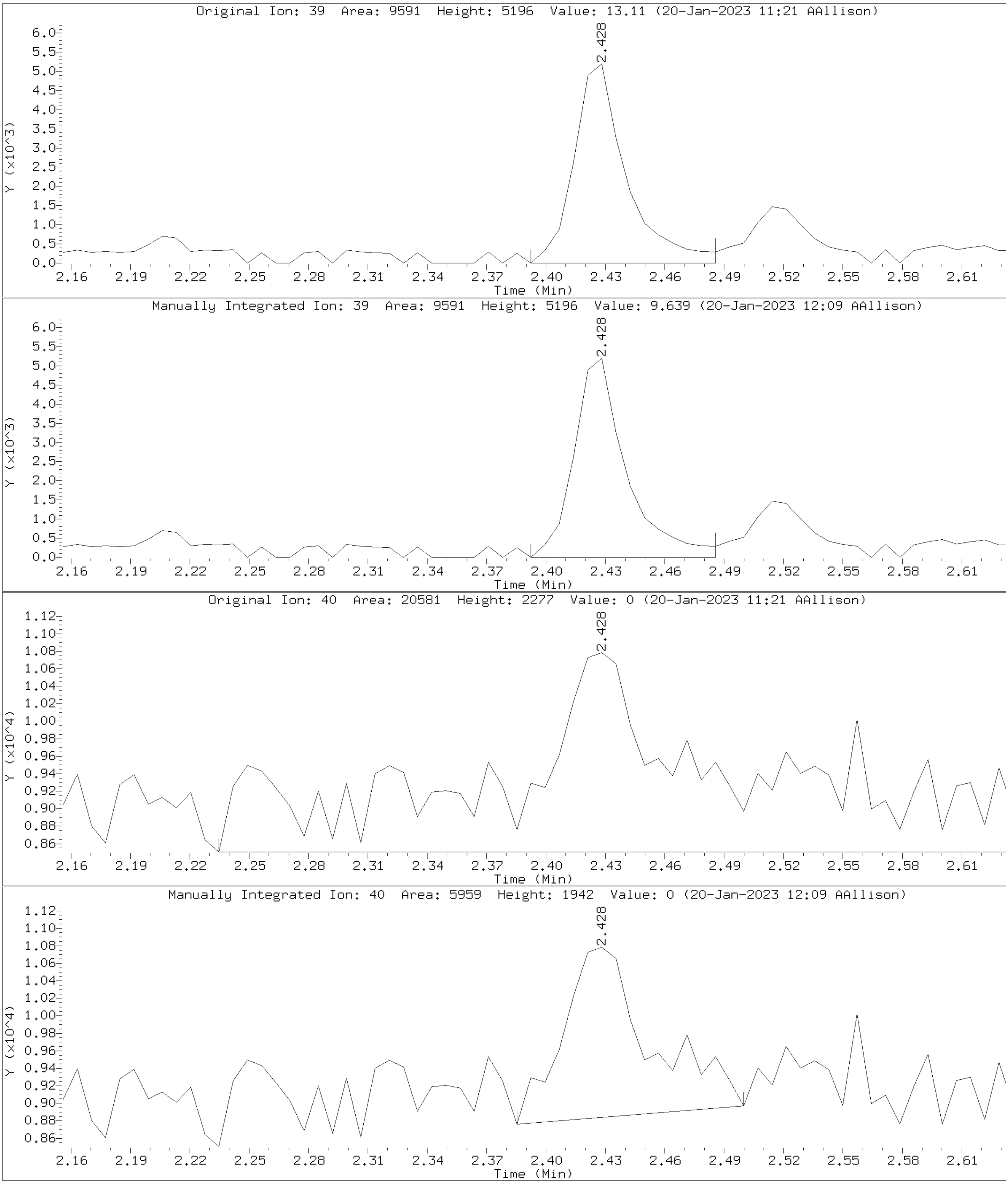
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8



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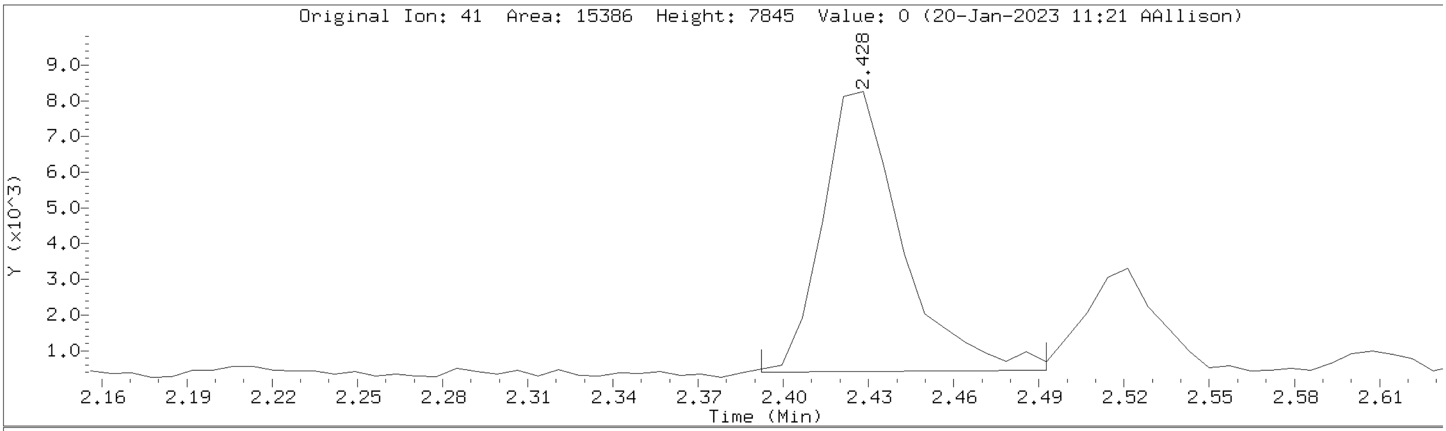
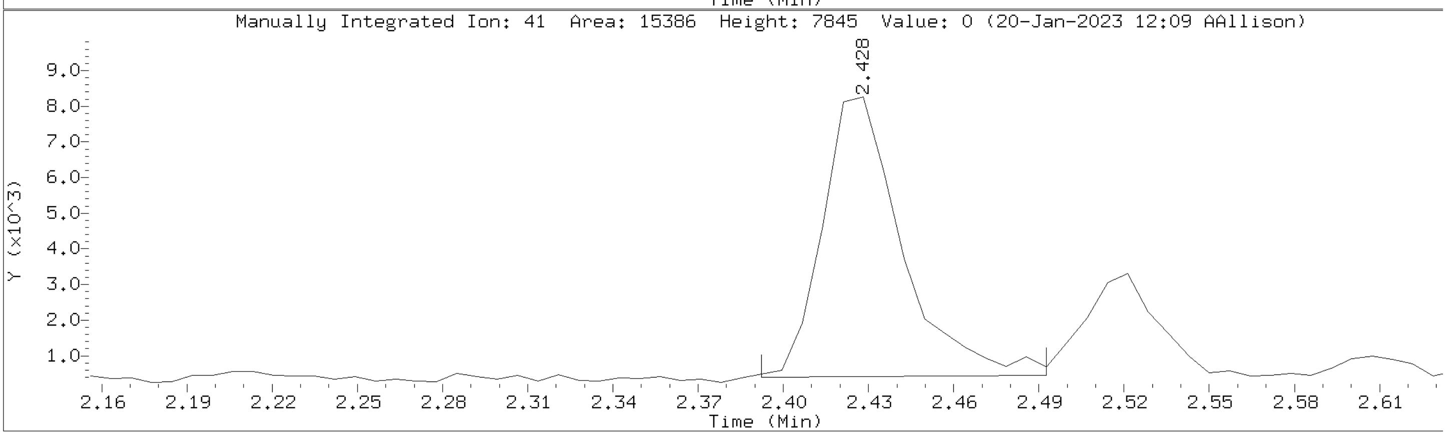
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3





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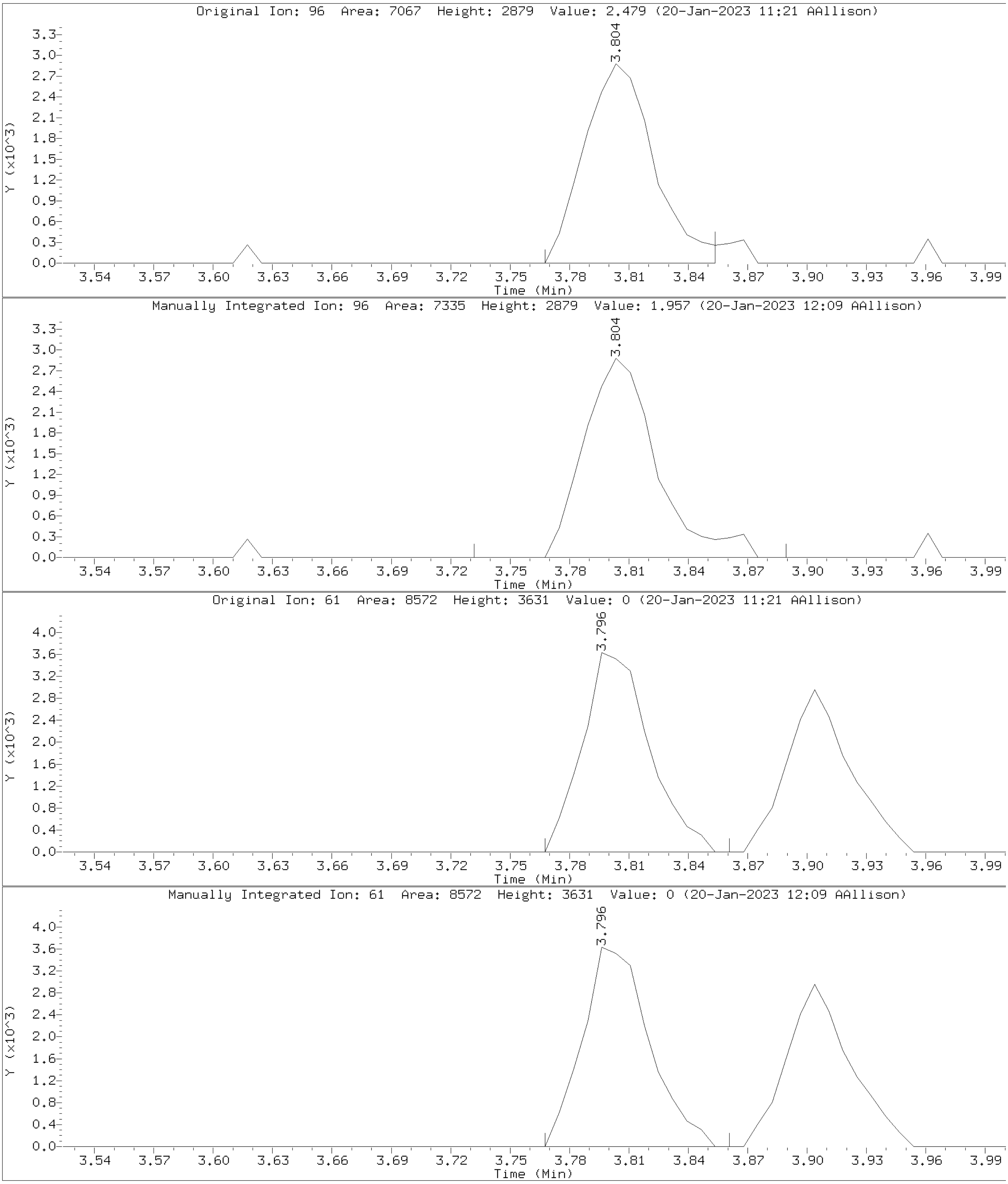
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloroethene (cis)   Review Code: LT
CAS Number: 156-59-2



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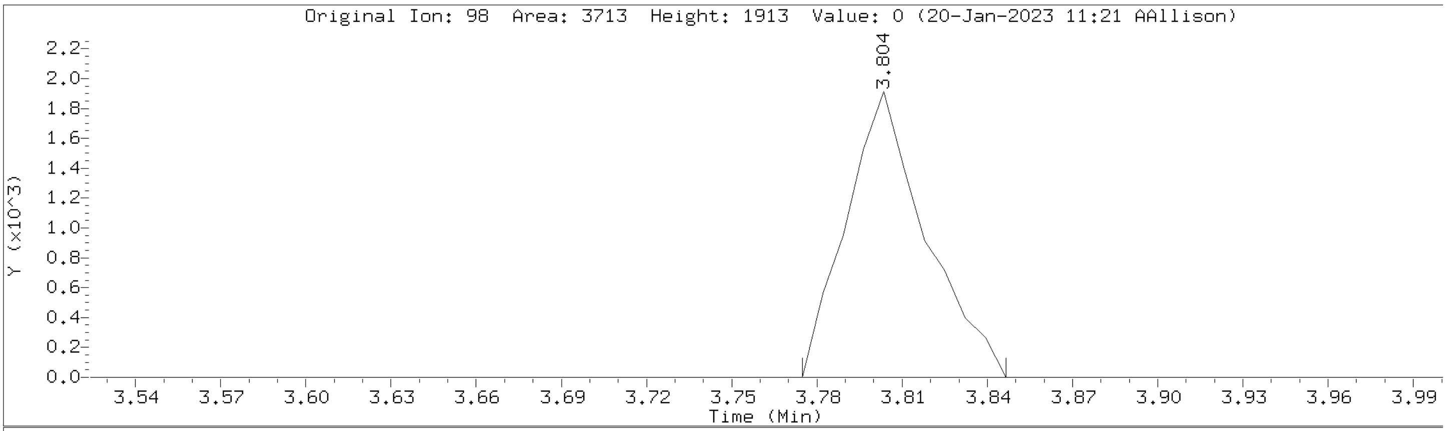
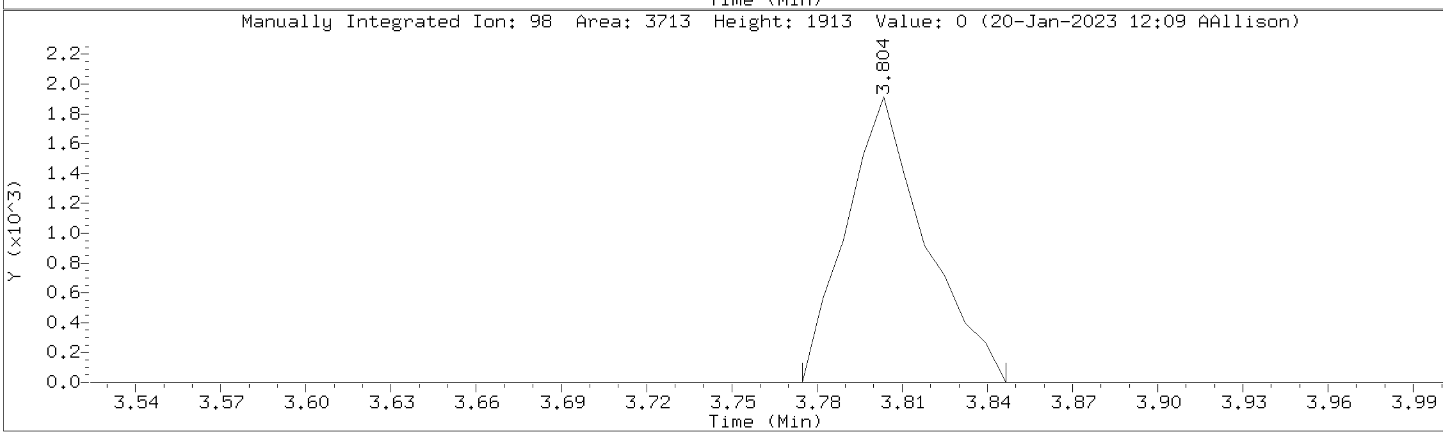
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3





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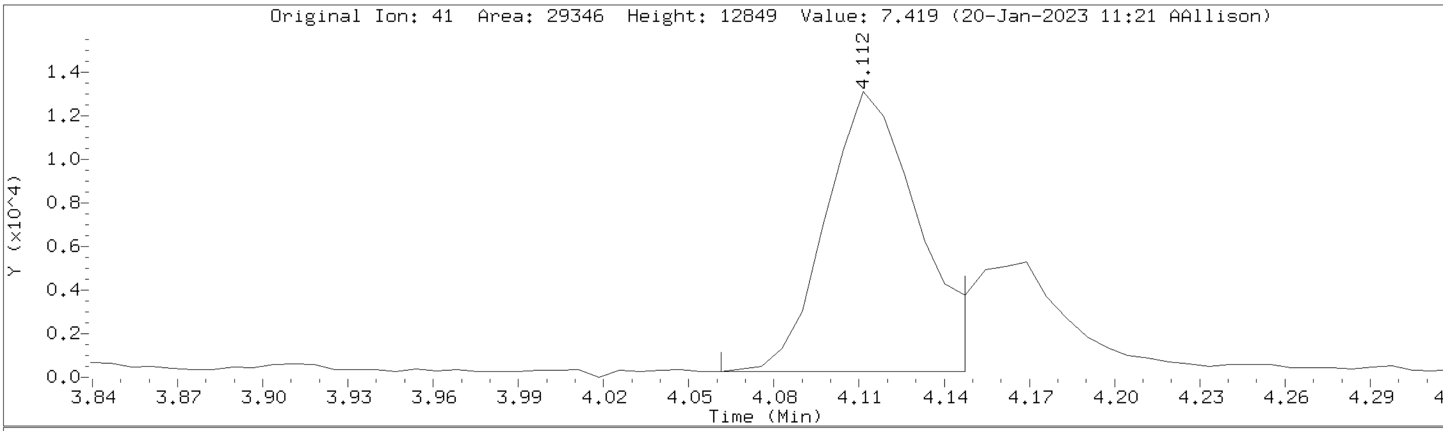
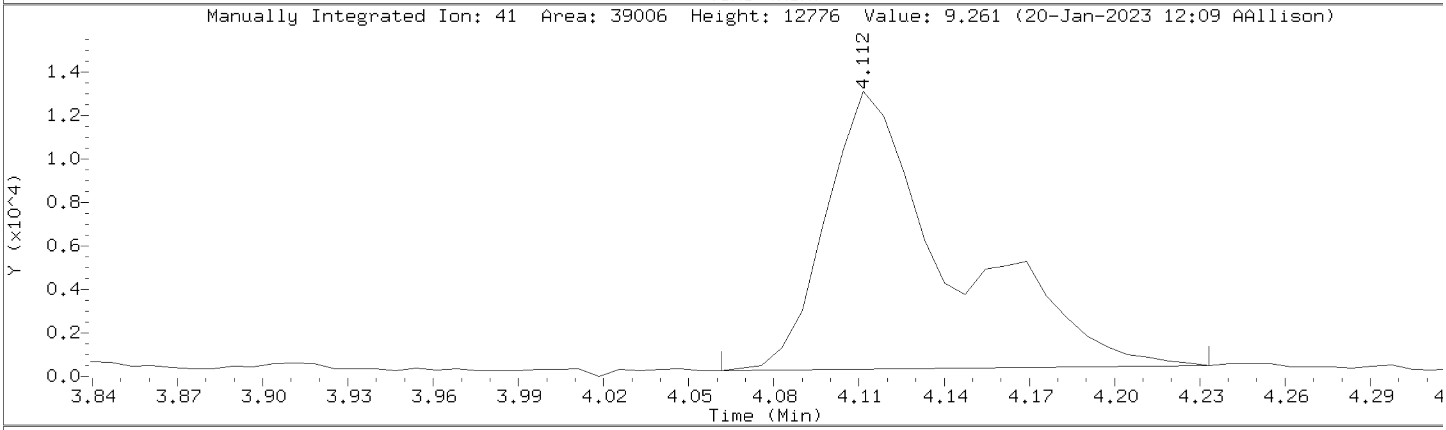
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Methacrylonitrile Review Code: LT
CAS Number: 126-98-7

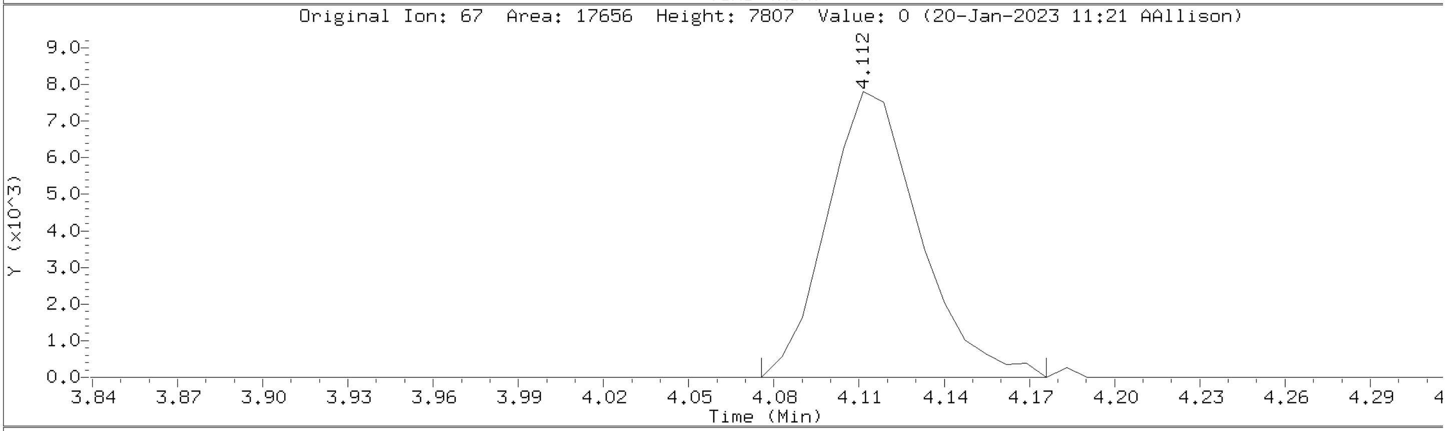
Original Ion: 41 Area: 29346 Height: 12849 Value: 7.419 (20-Jan-2023 11:21 AAllison)



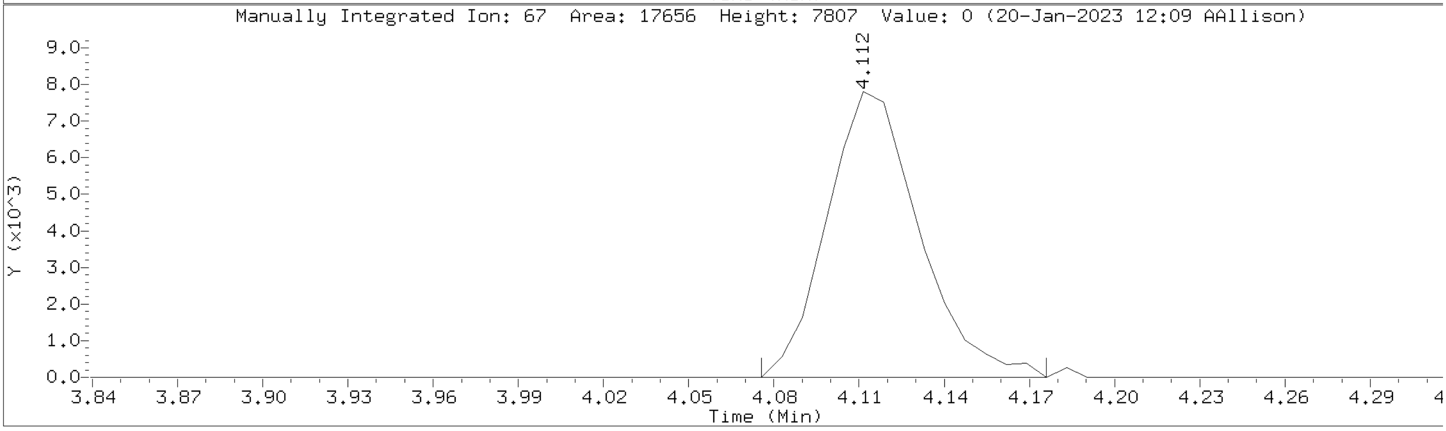
Manually Integrated Ion: 41 Area: 39006 Height: 12776 Value: 9.261 (20-Jan-2023 12:09 AAllison)



Original Ion: 67 Area: 17656 Height: 7807 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 67 Area: 17656 Height: 7807 Value: 0 (20-Jan-2023 12:09 AAllison)



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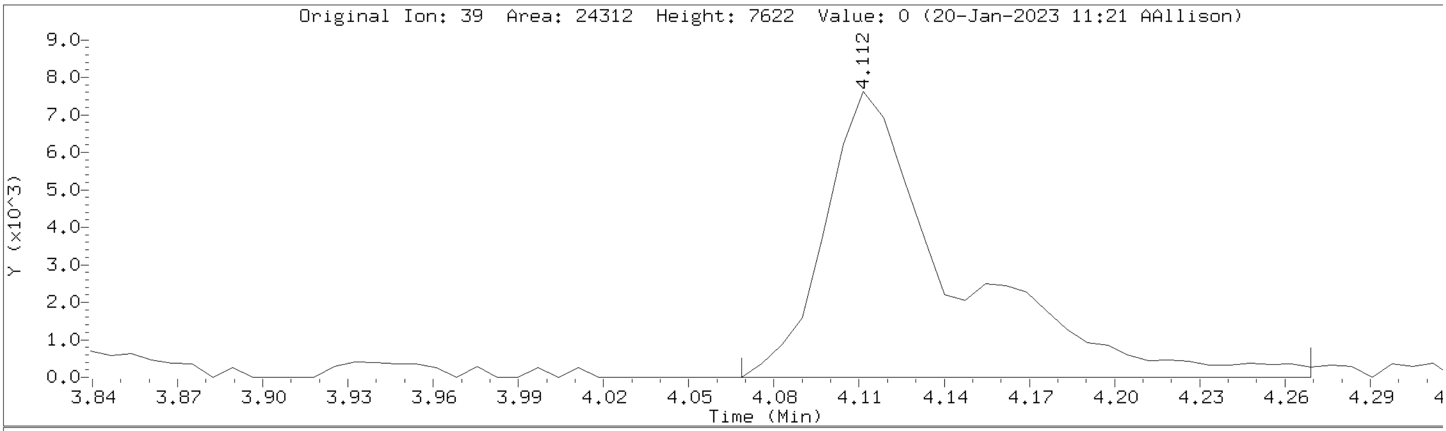
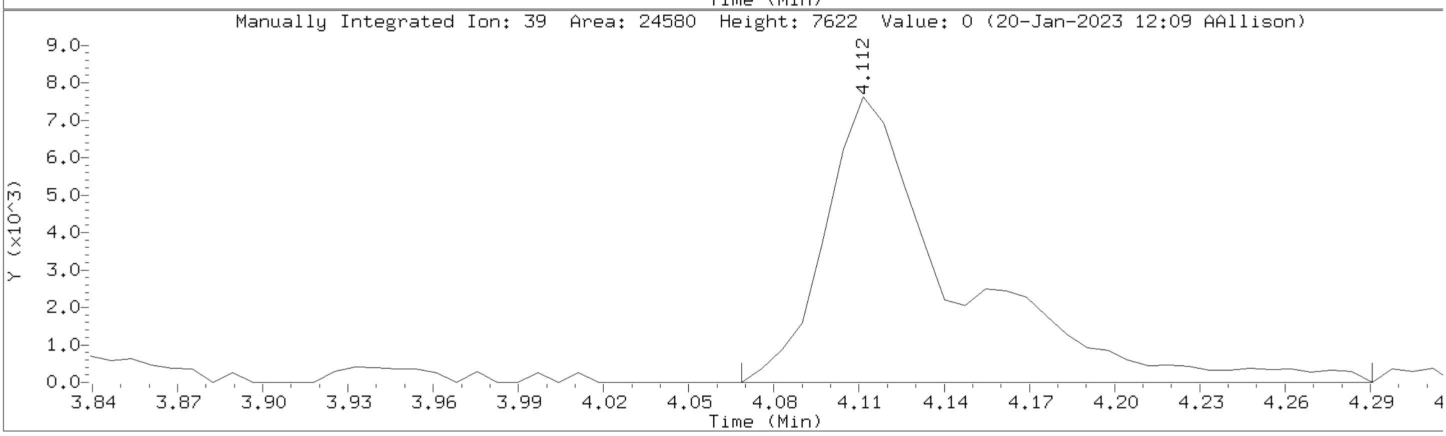
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3





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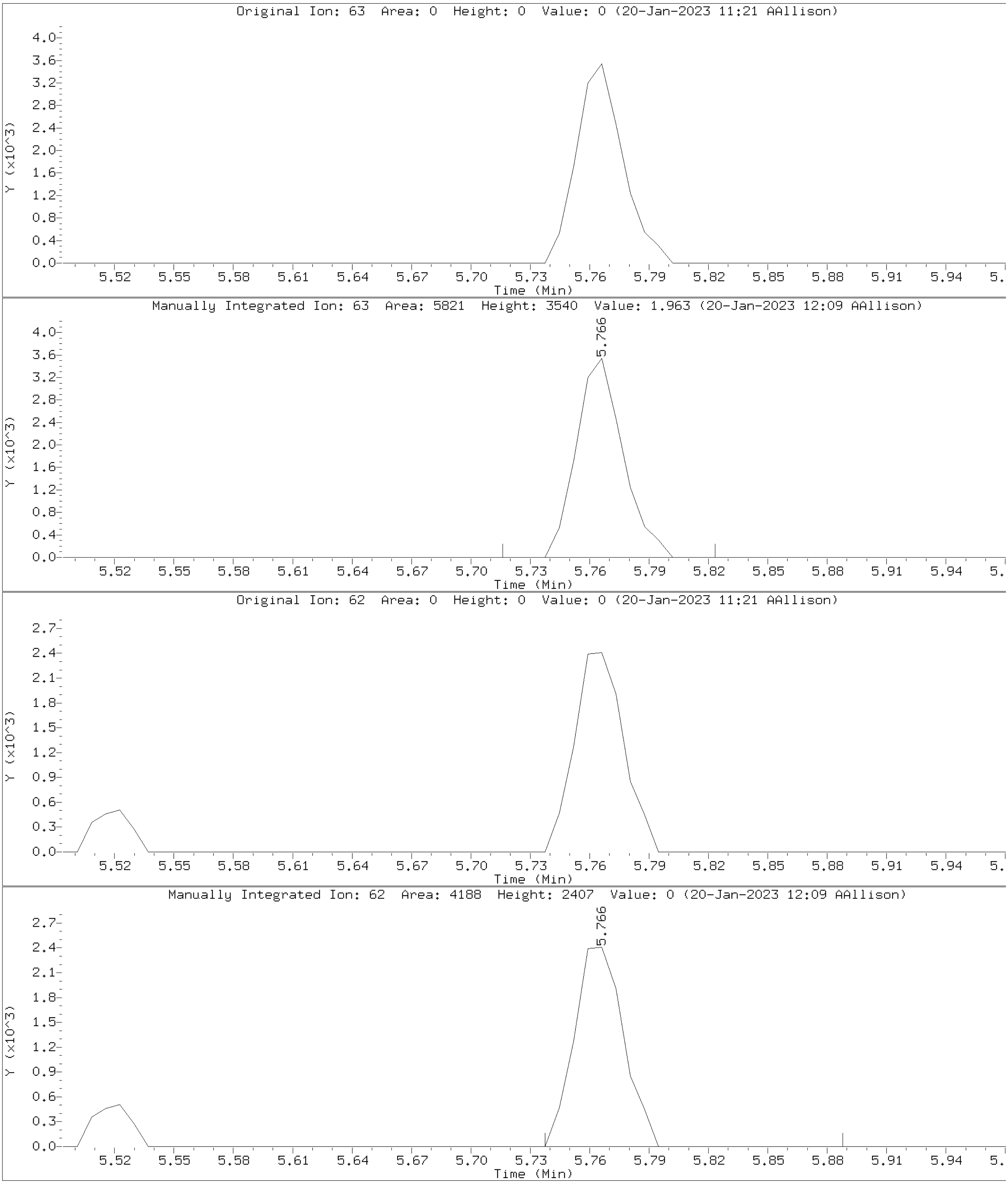
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane   Review Code: NI
CAS Number: 78-87-5



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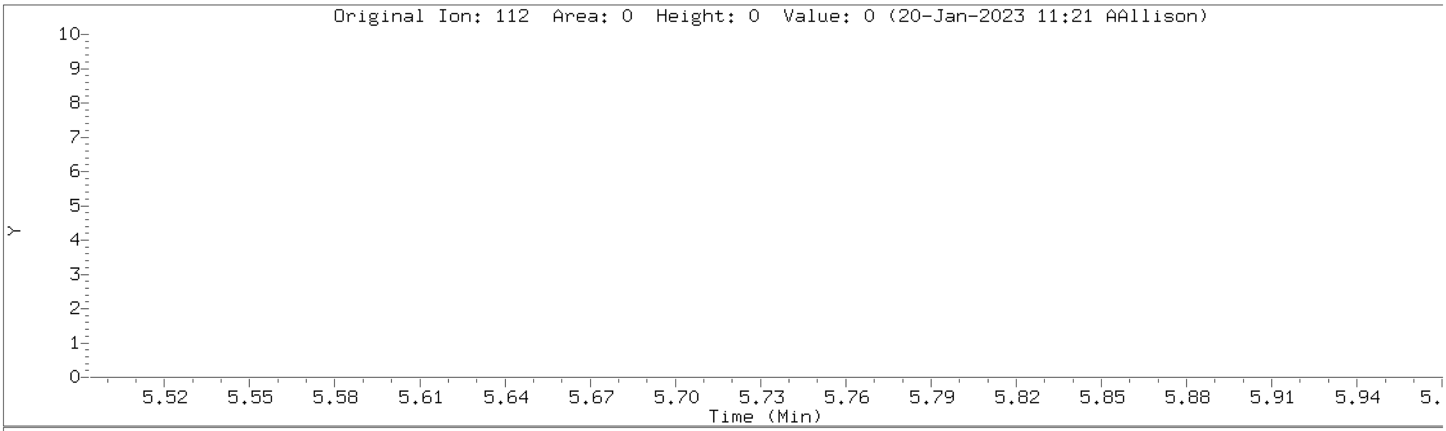
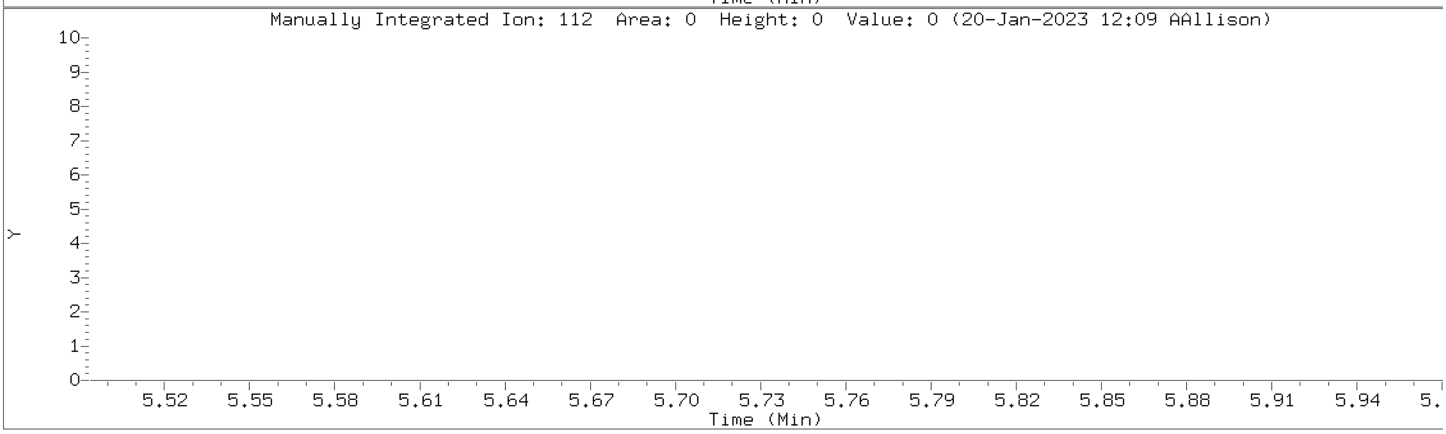
Lab Sample ID: 8260-CAL3





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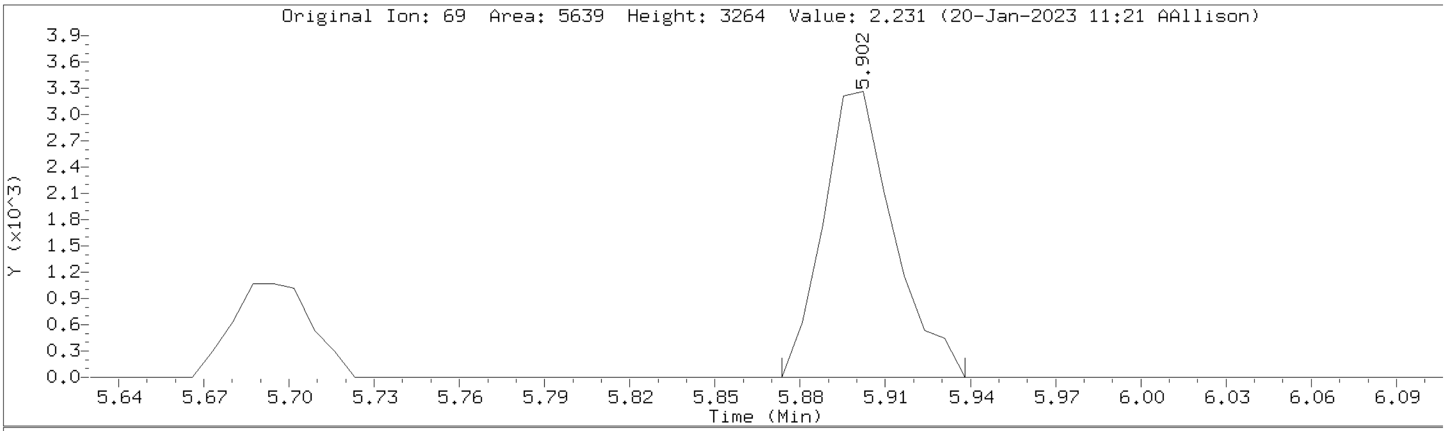
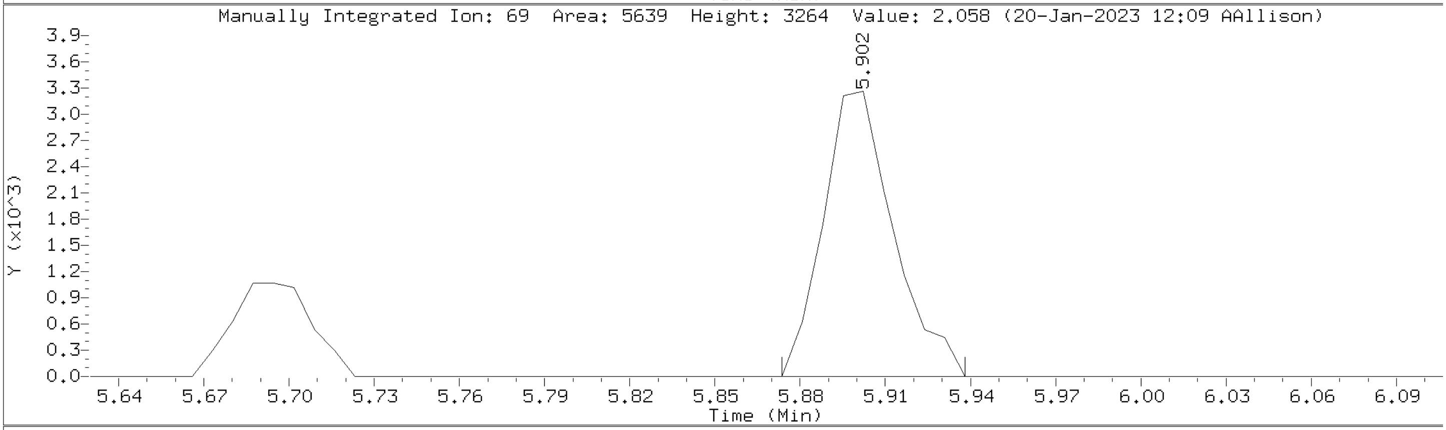
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Methyl methacrylate   Review Code: GT
CAS Number: 80-62-6

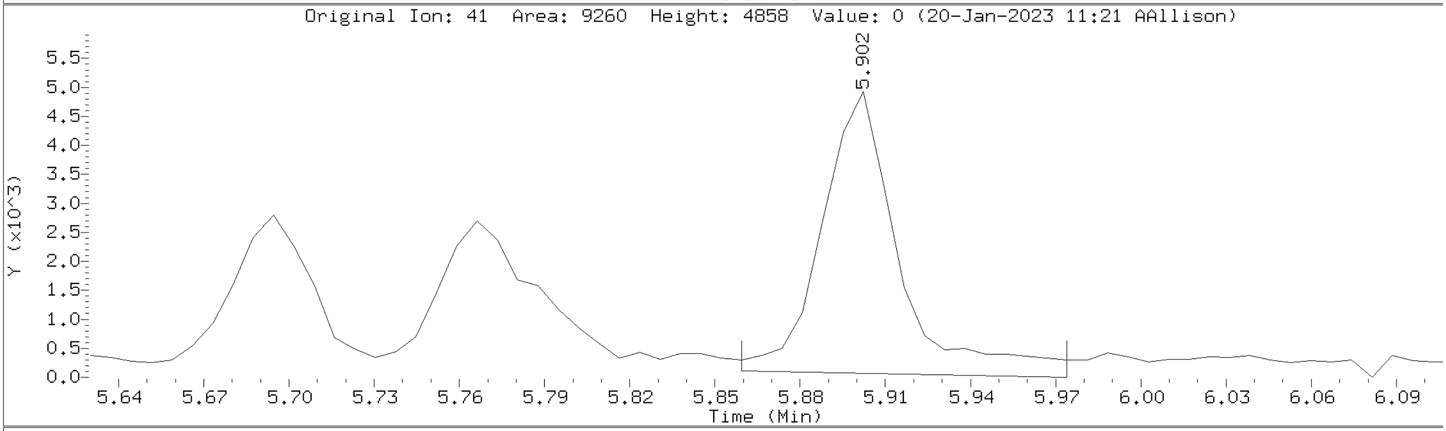
Original Ion: 69 Area: 5639 Height: 3264 Value: 2.231 (20-Jan-2023 11:21 AAllison)



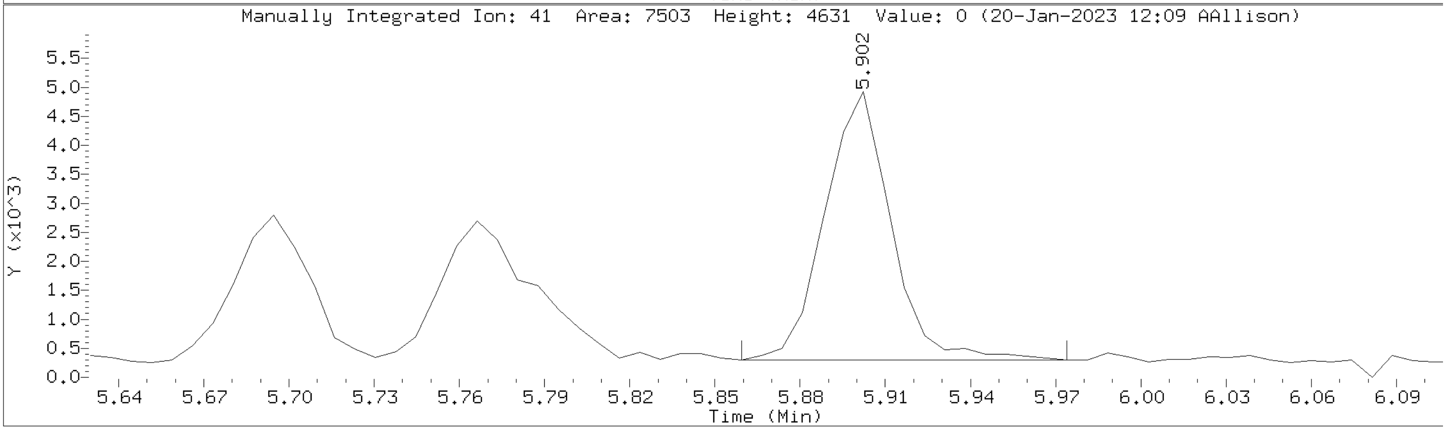
Manually Integrated Ion: 69 Area: 5639 Height: 3264 Value: 2.058 (20-Jan-2023 12:09 AAllison)



Original Ion: 41 Area: 9260 Height: 4858 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 41 Area: 7503 Height: 4631 Value: 0 (20-Jan-2023 12:09 AAllison)



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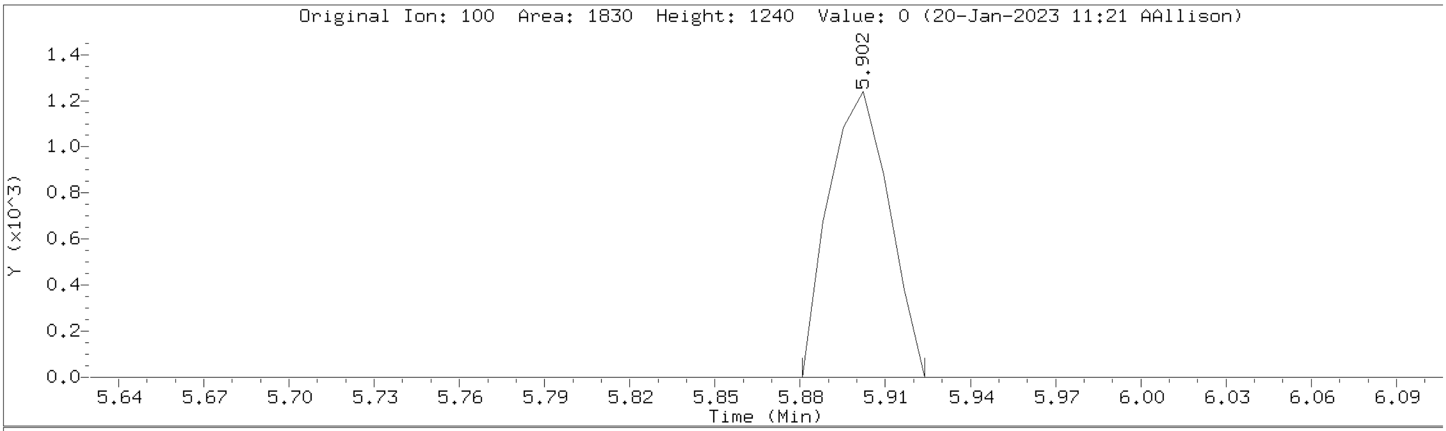
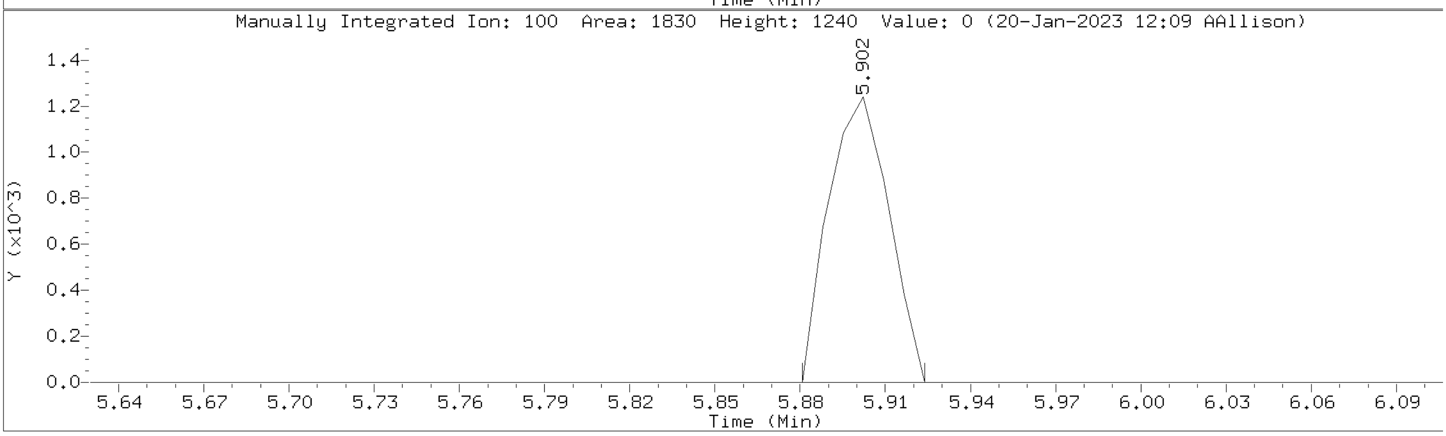
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3





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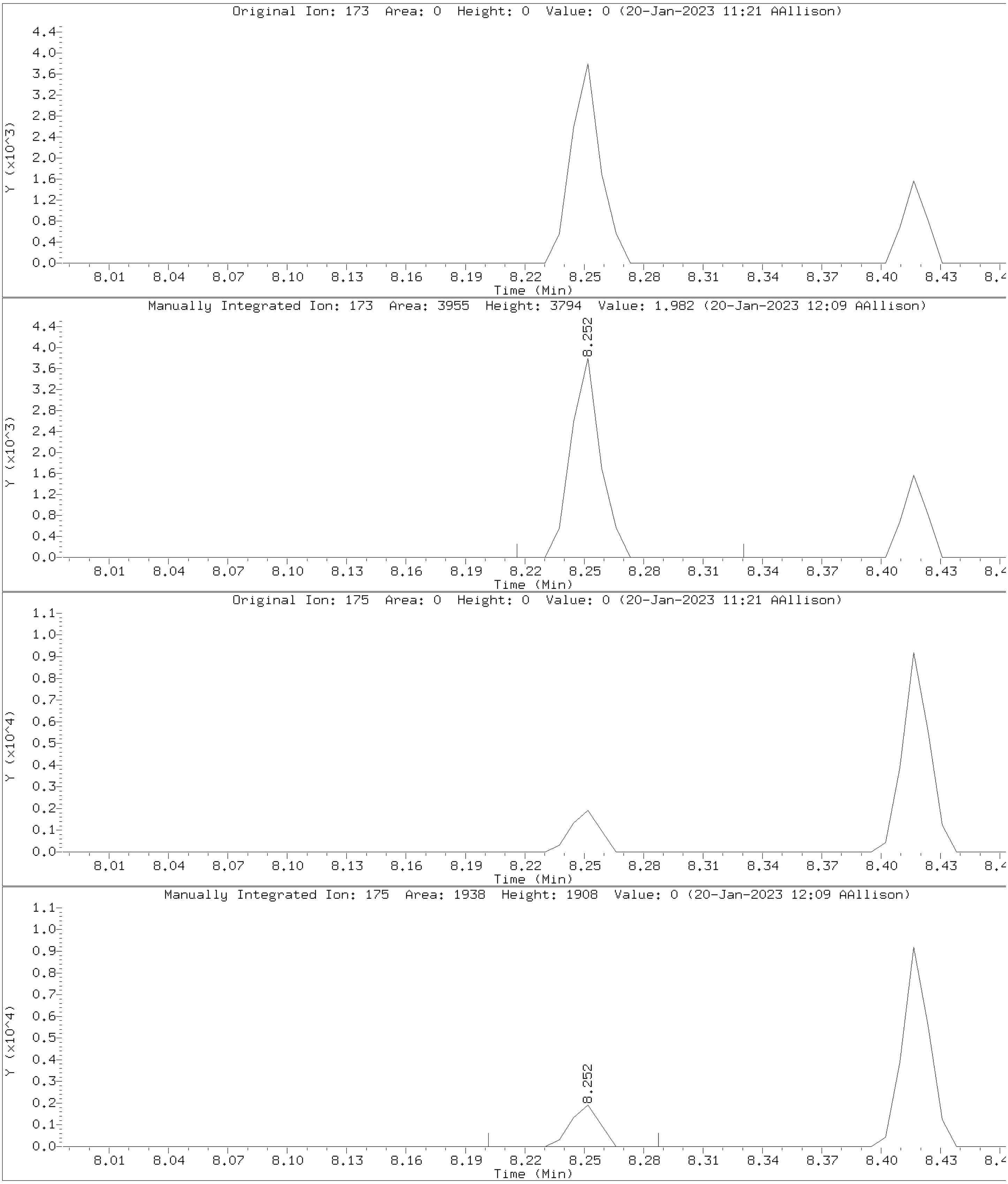
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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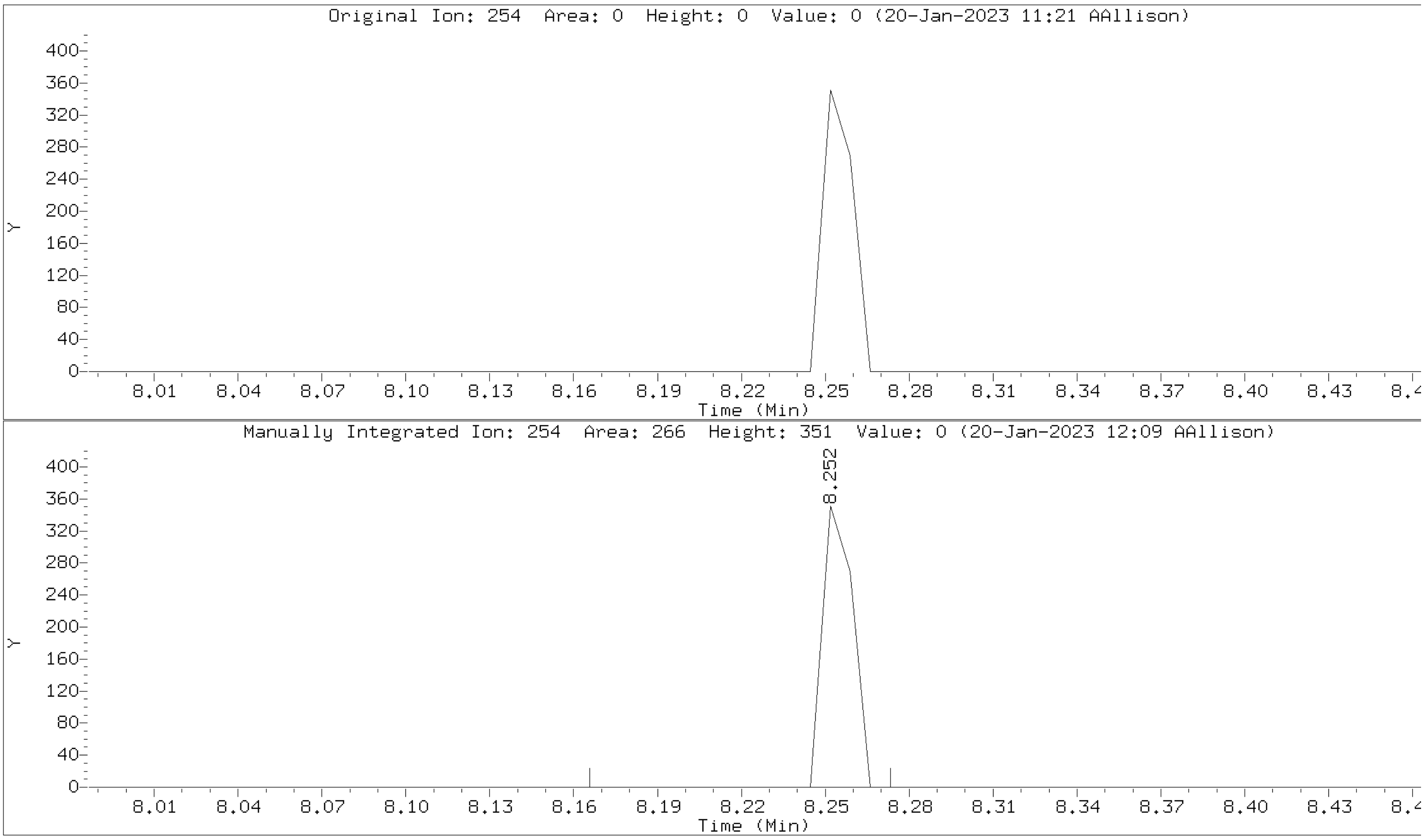
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3



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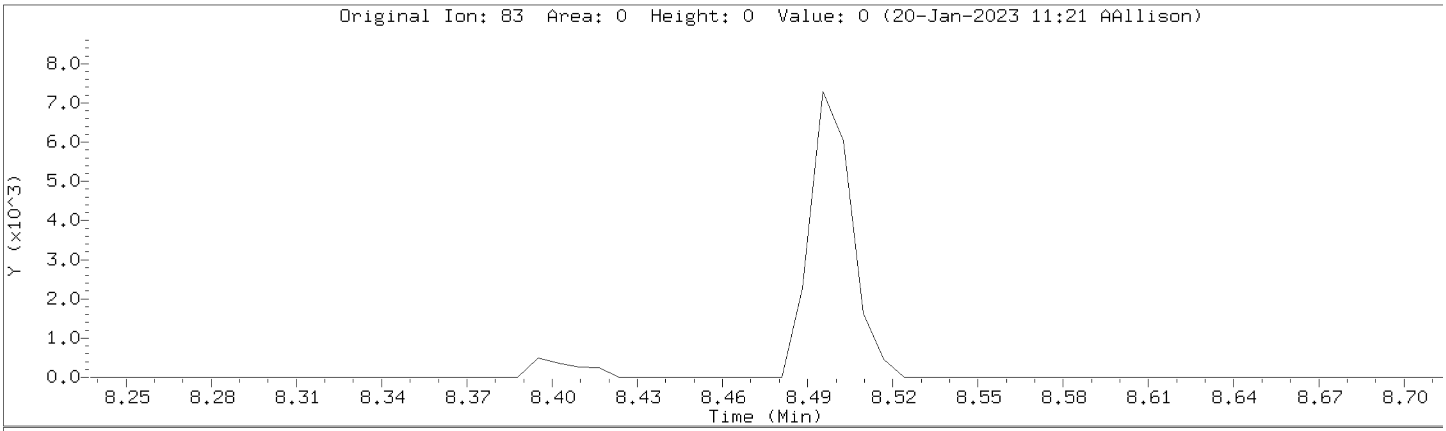
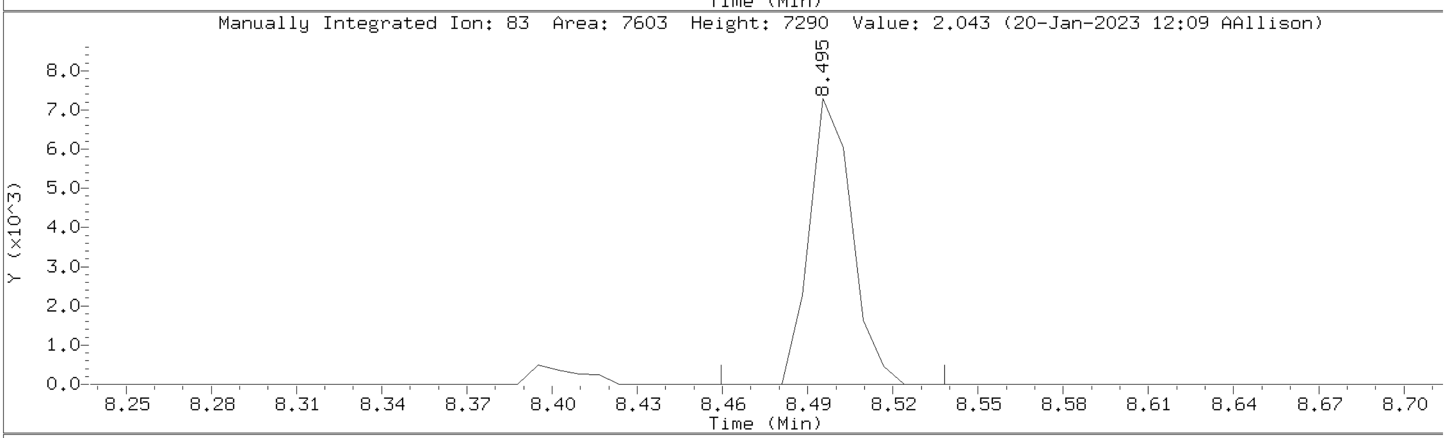
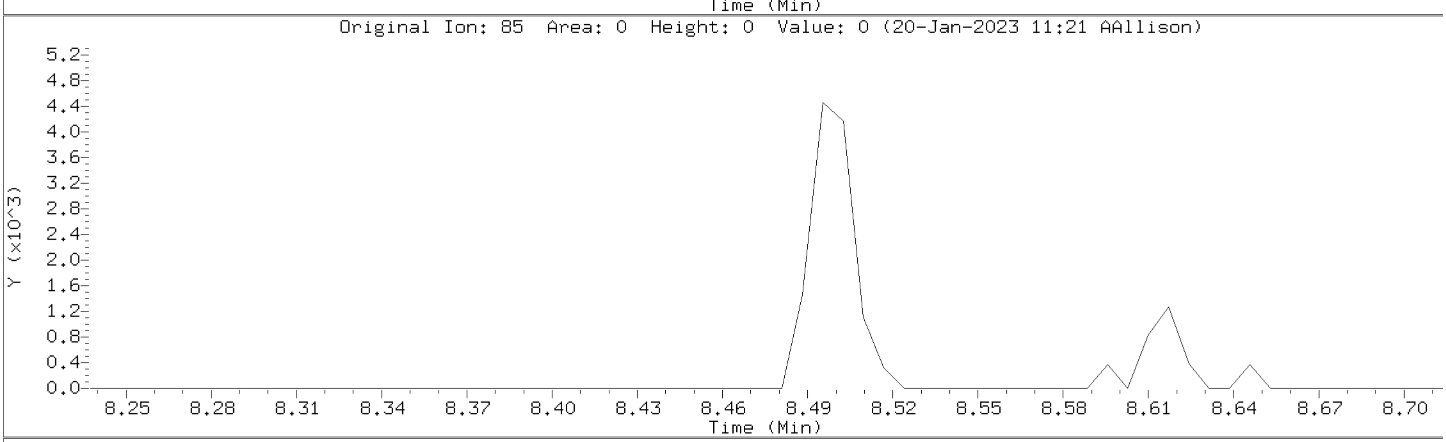
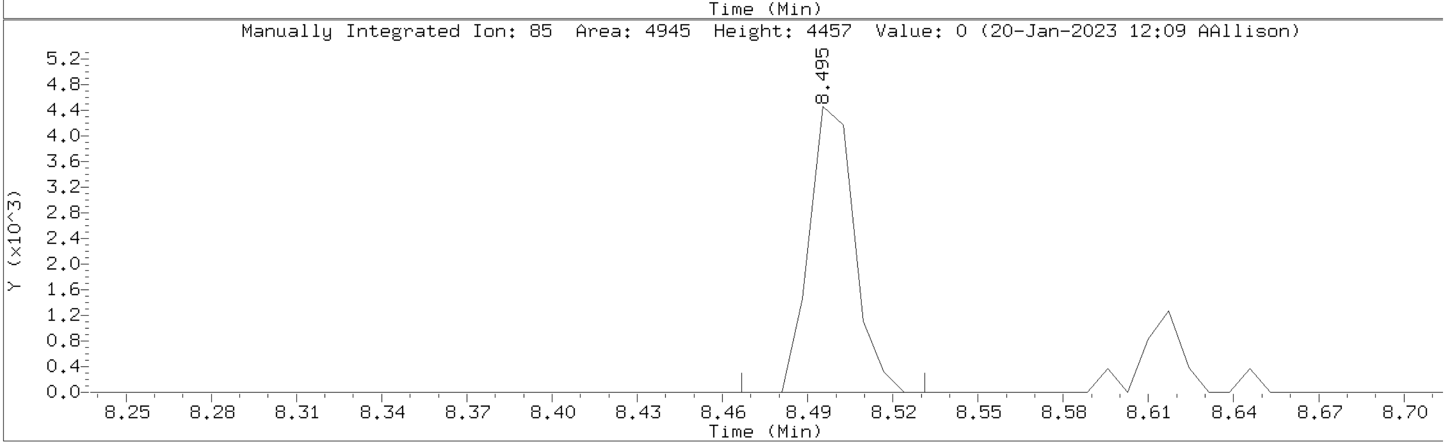
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2,2-Tetrachloroethane   Review Code: NI
CAS Number: 79-34-5









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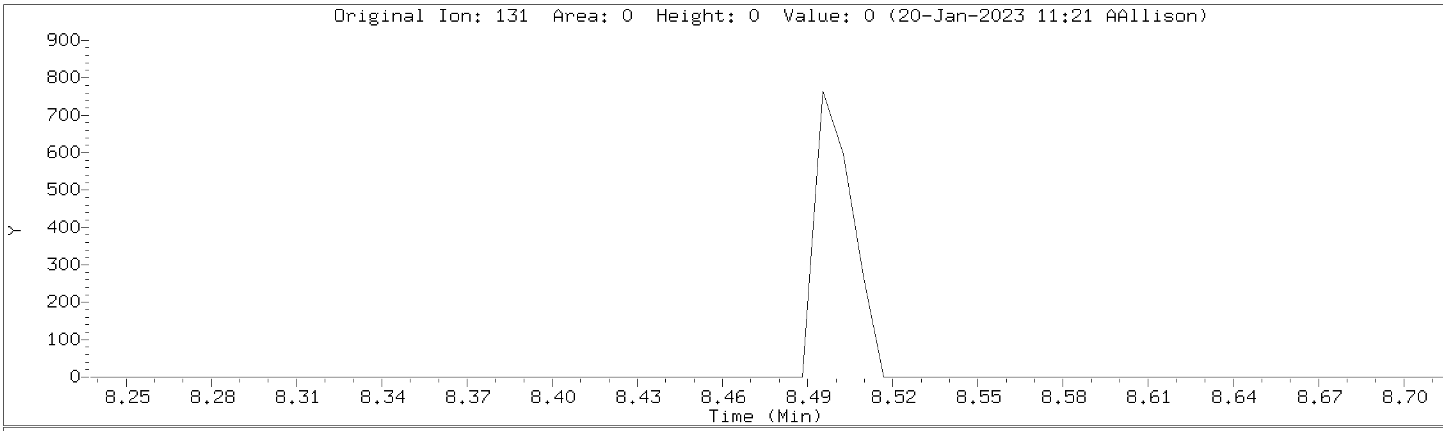
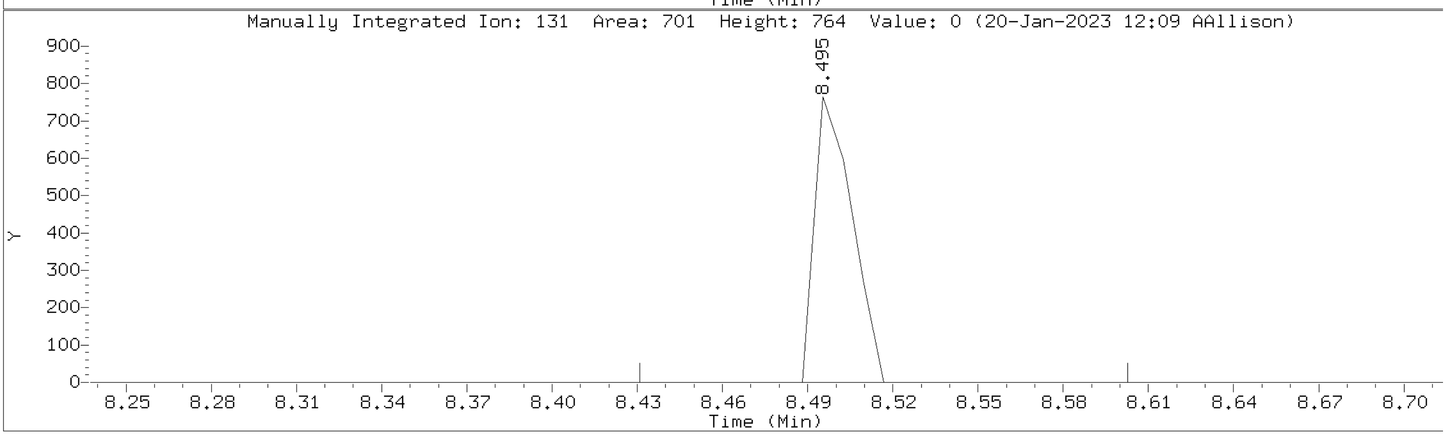
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3





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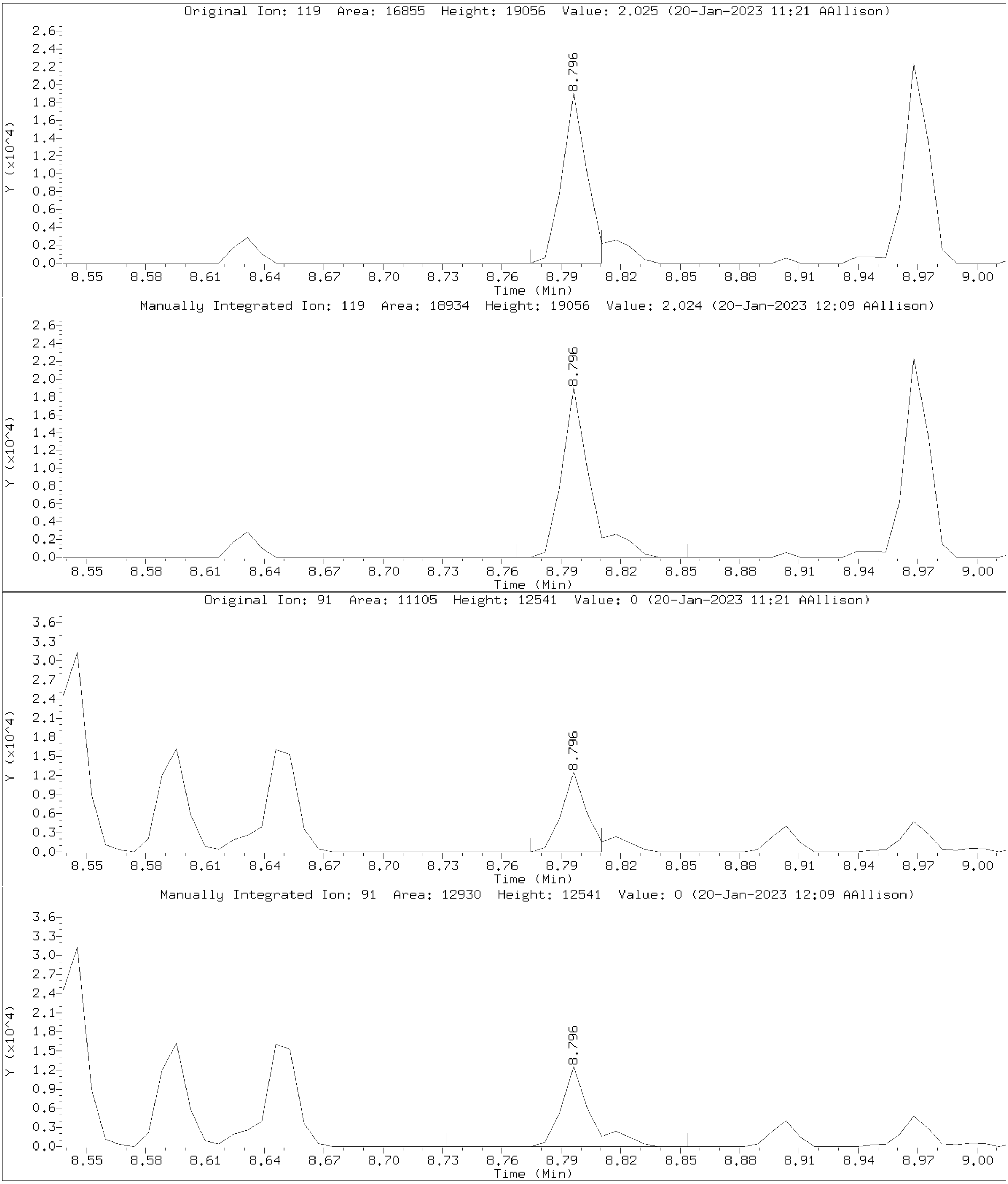
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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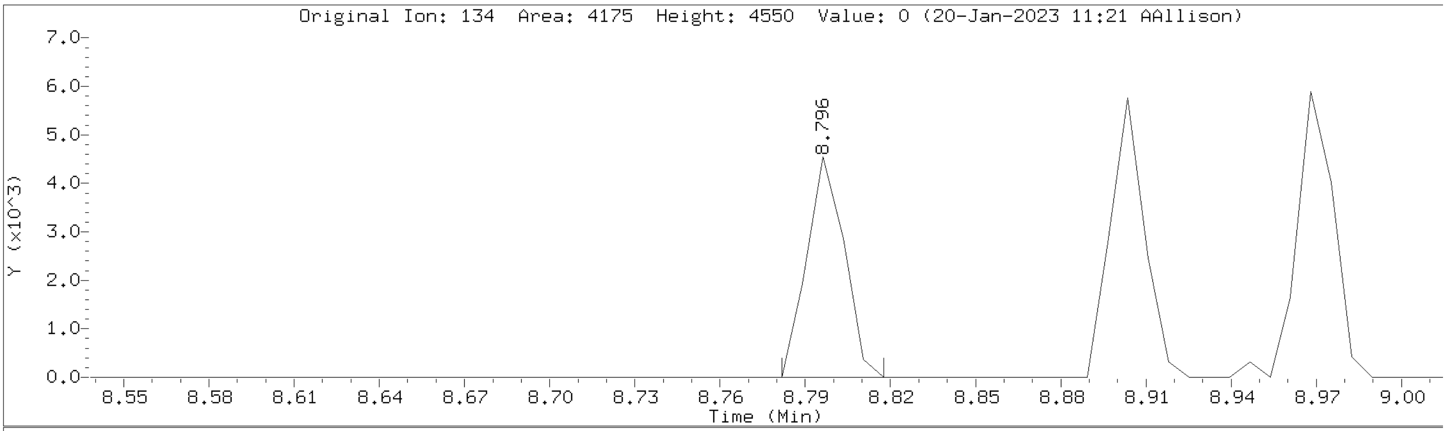
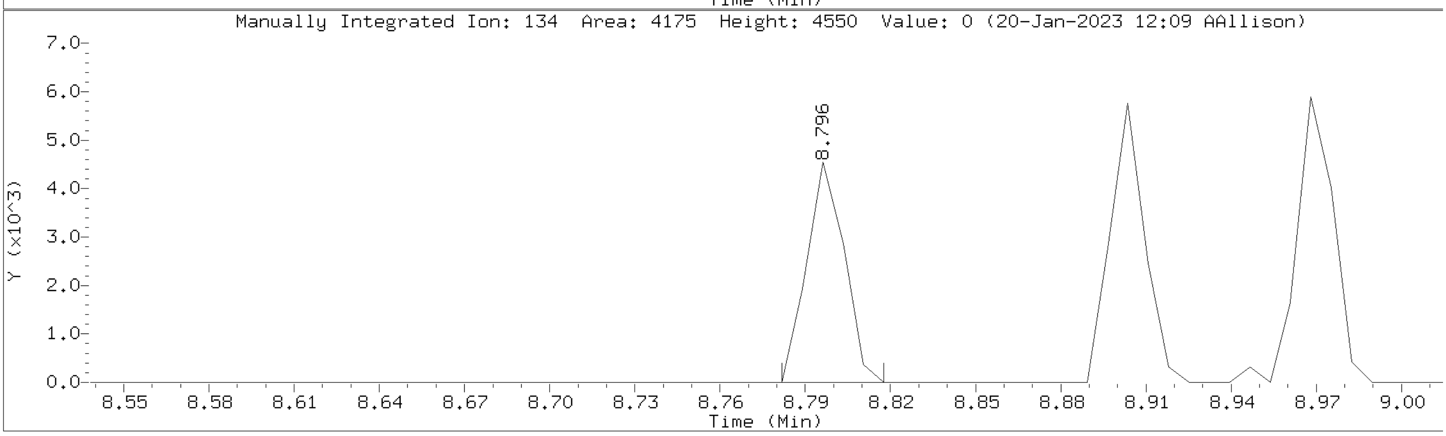
Lab Sample ID: 8260-CAL3





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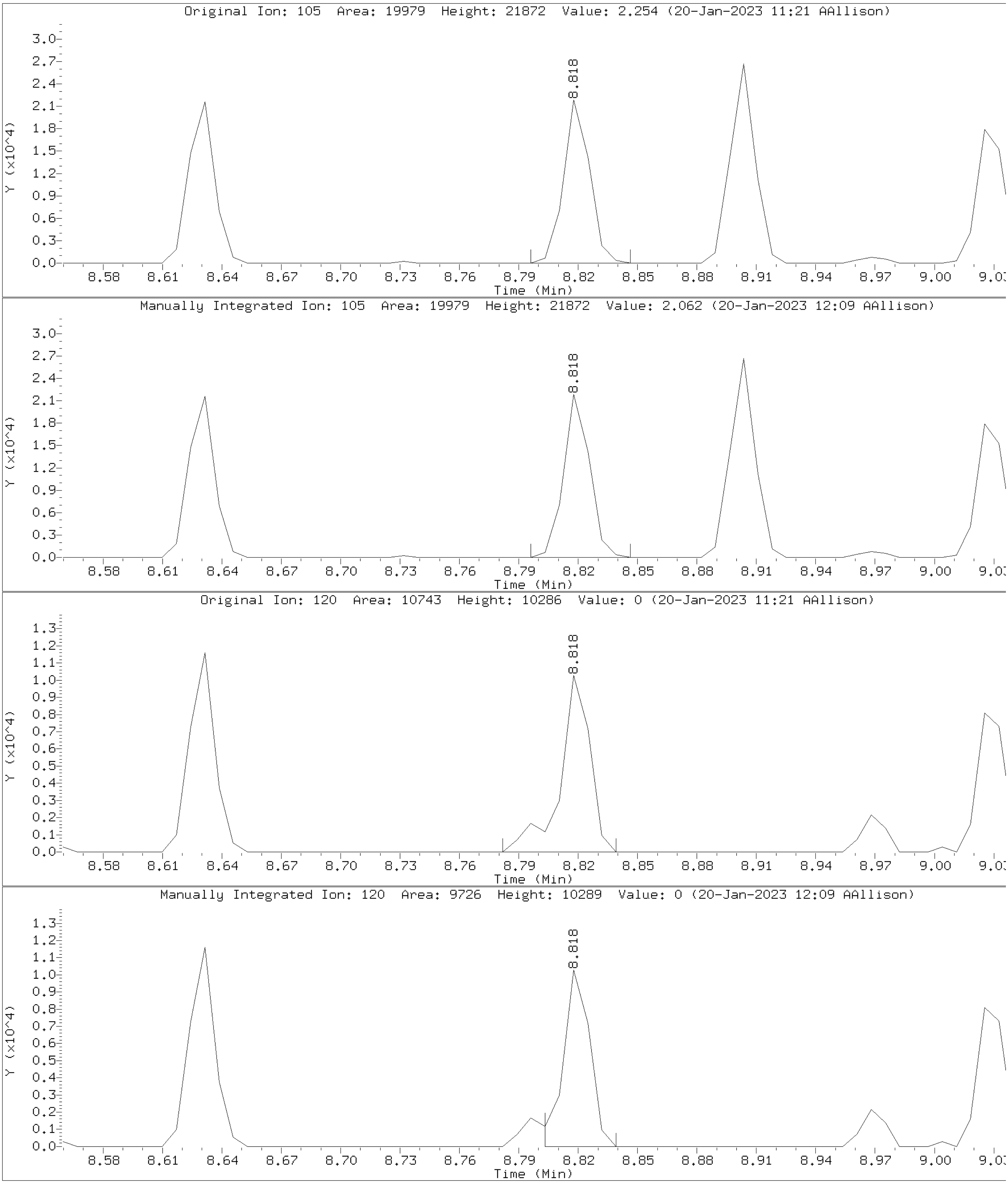
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 1,2,4-Trimethylbenzene   Review Code: GT
CAS Number: 95-63-6



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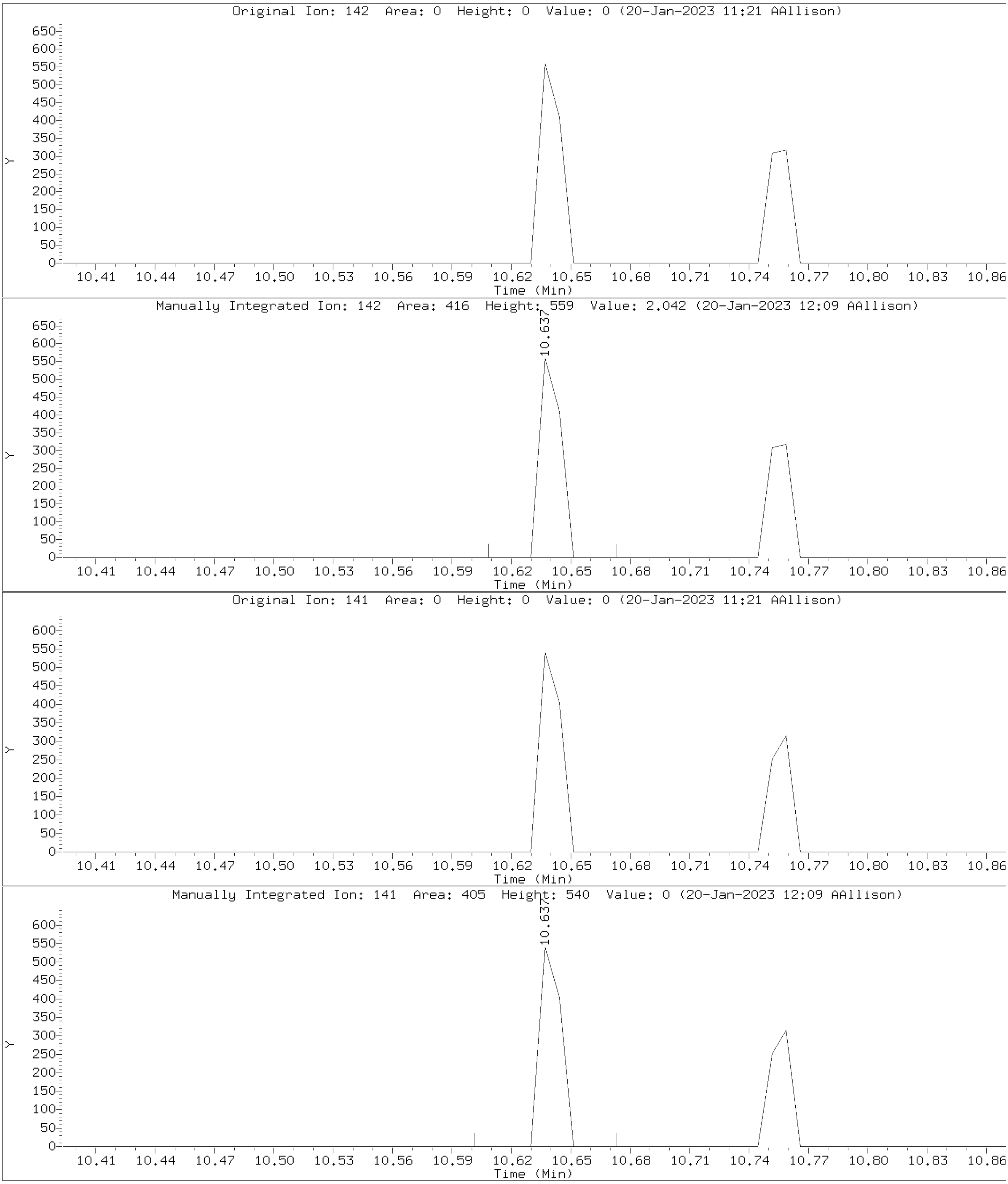
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 2,methyl-naphthalene   Review Code: NI
CAS Number:



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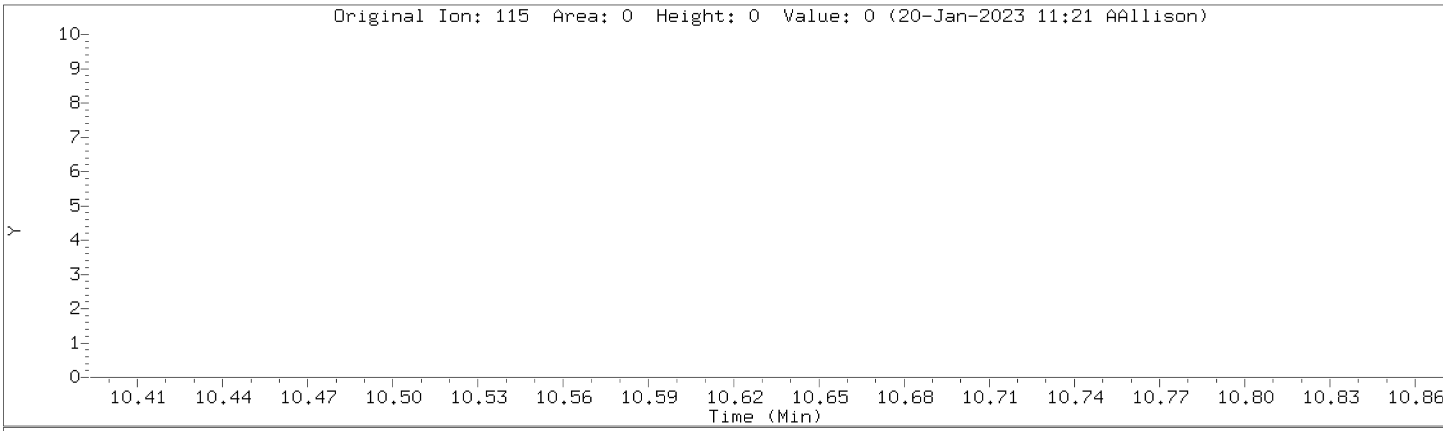
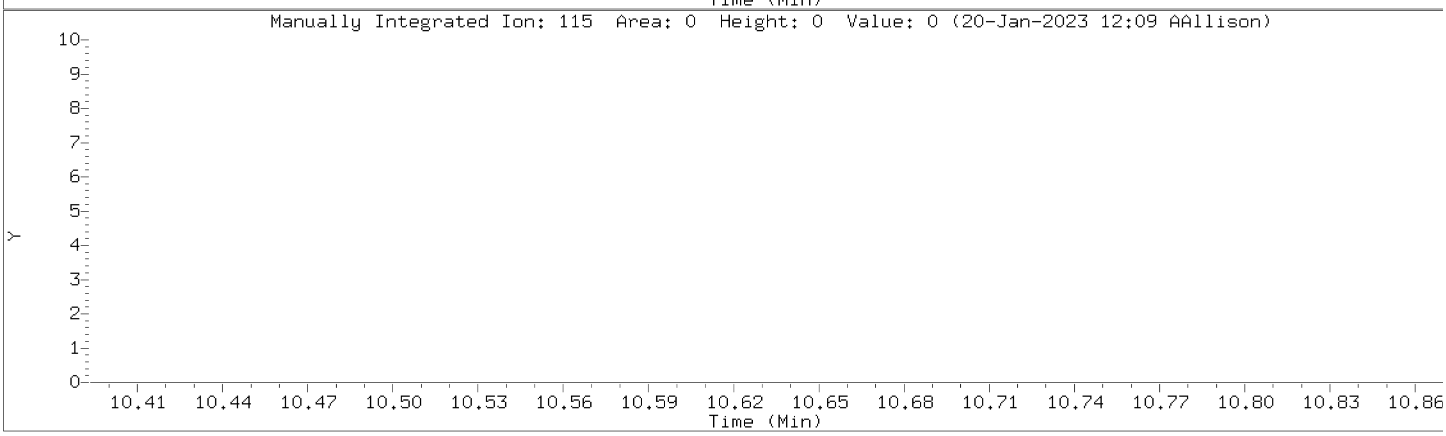
Lab Sample ID: 8260-CAL3





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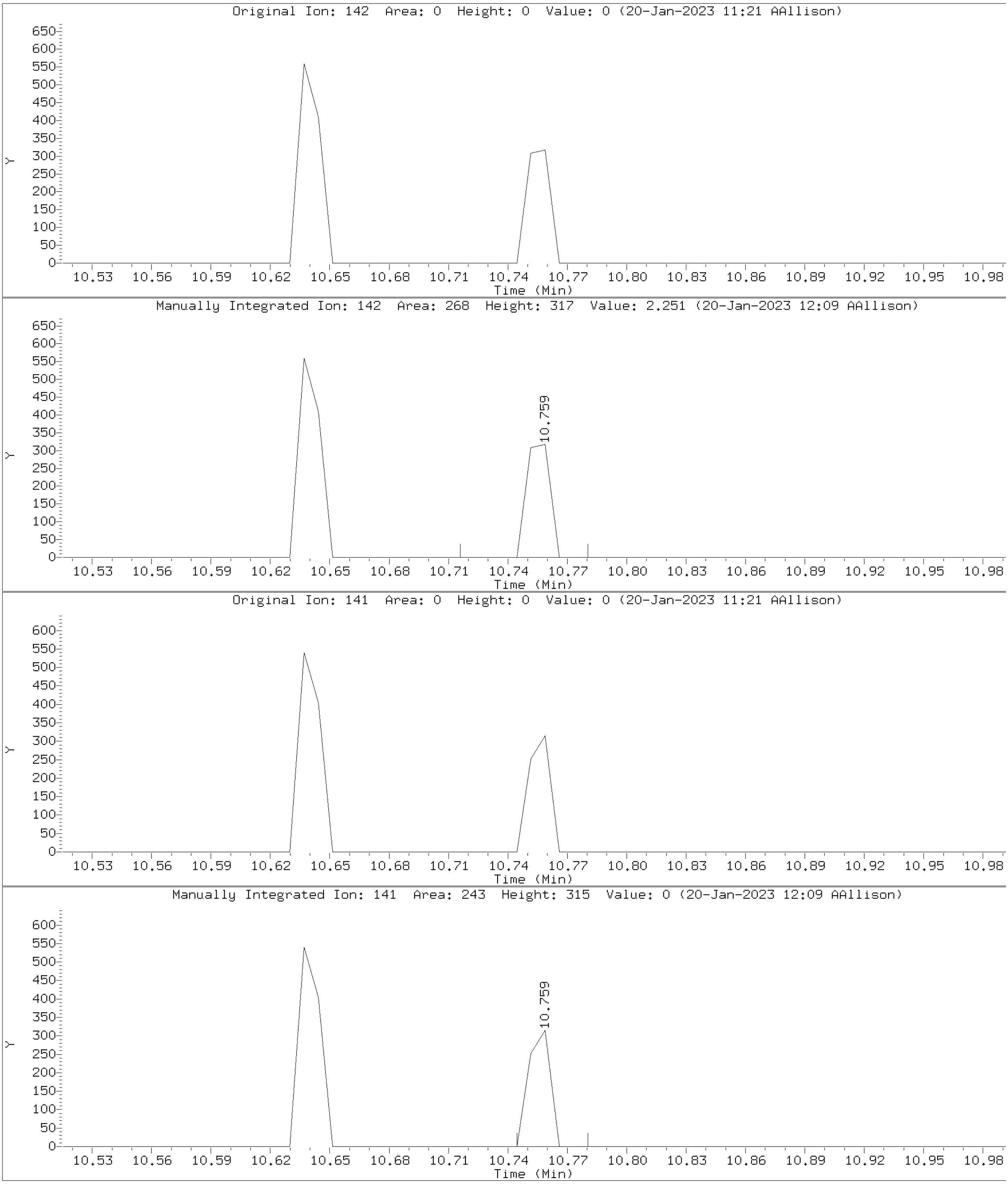
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: 1-Methylnaphthalene   Review Code: NI
CAS Number: 90-12-0



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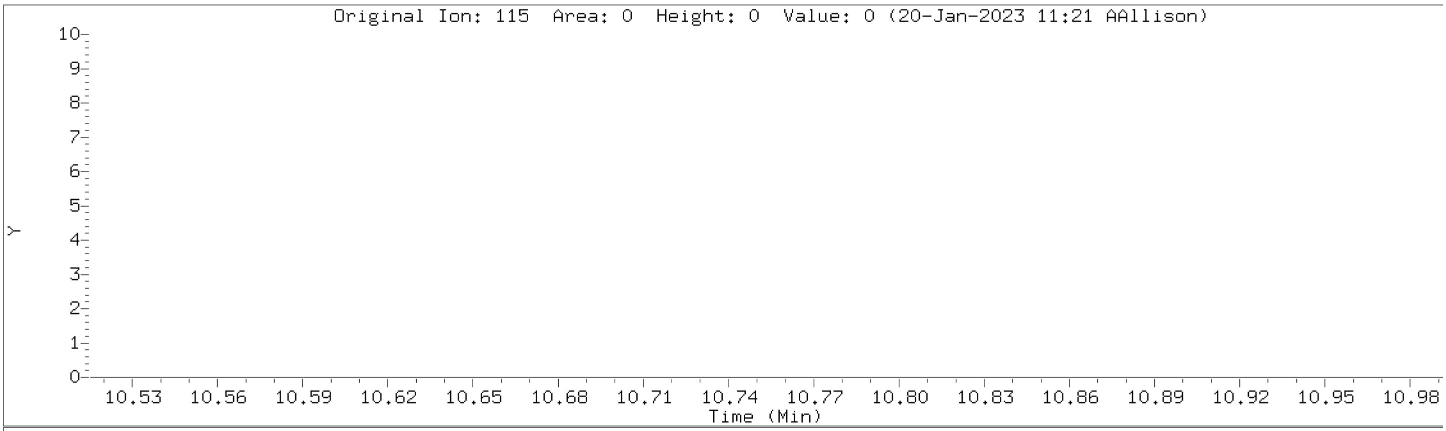

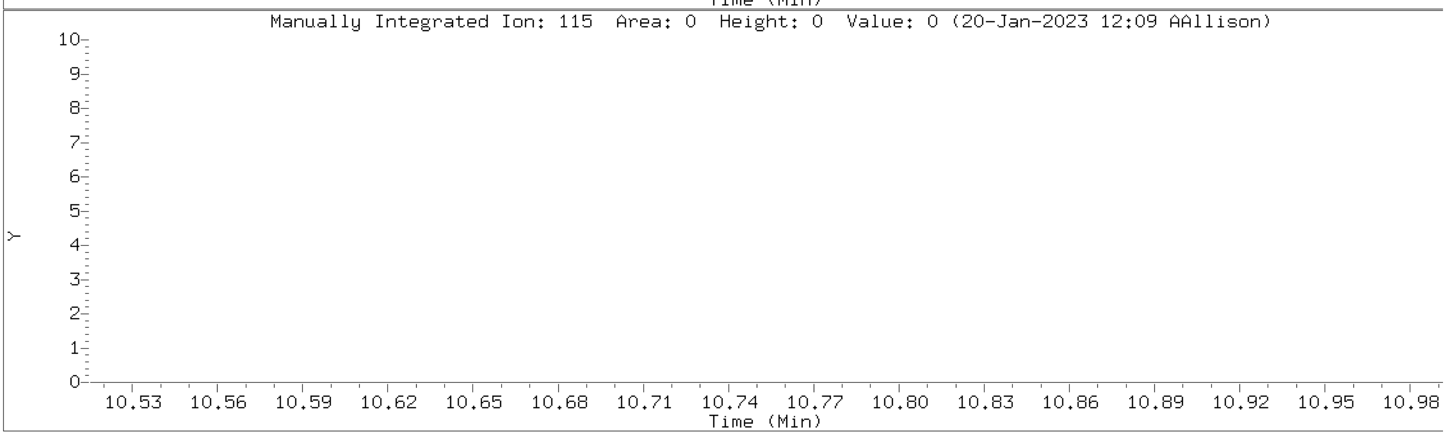

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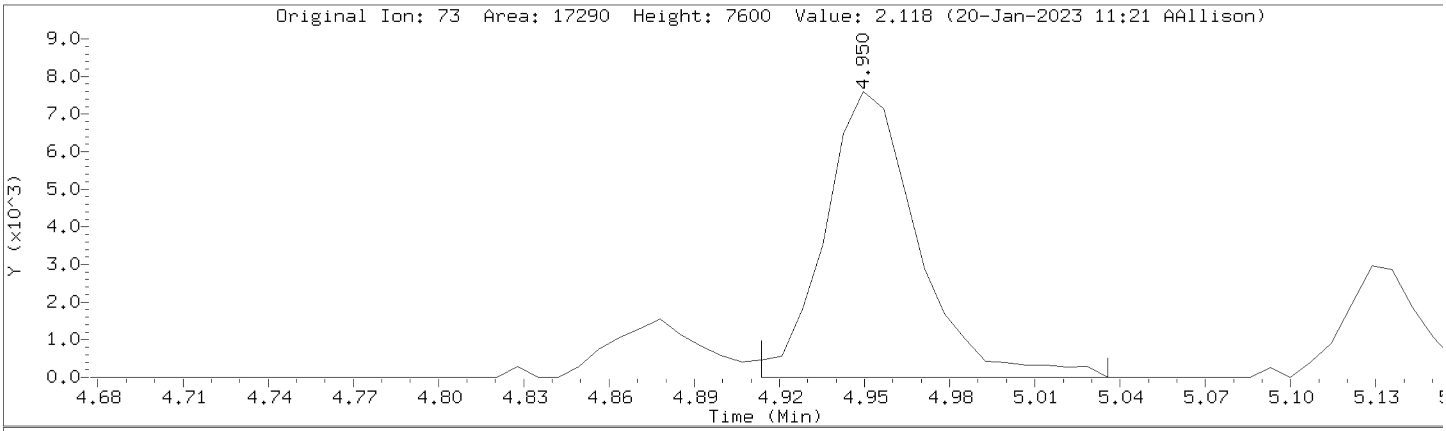
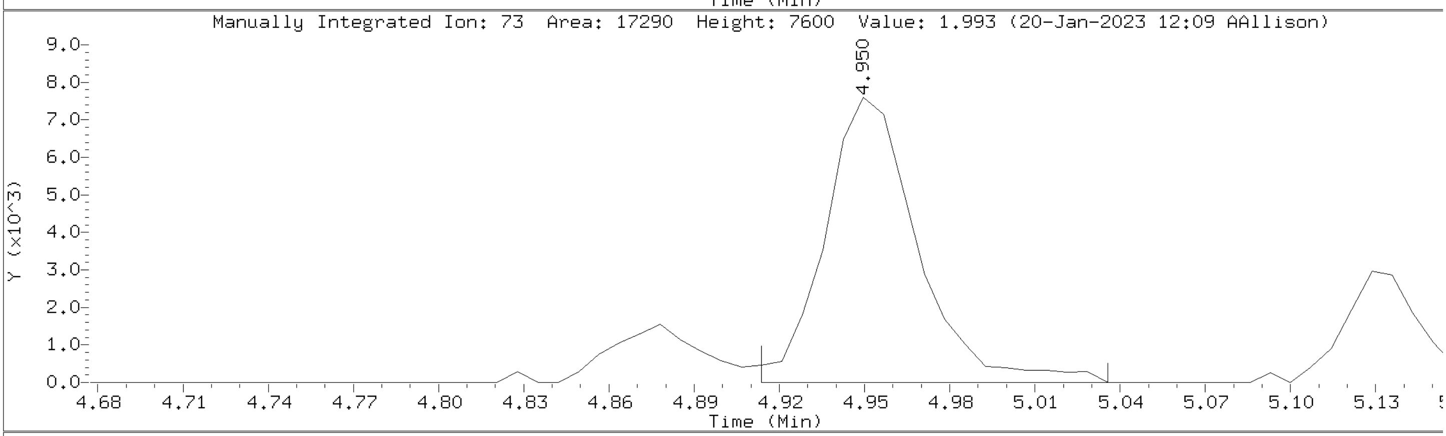
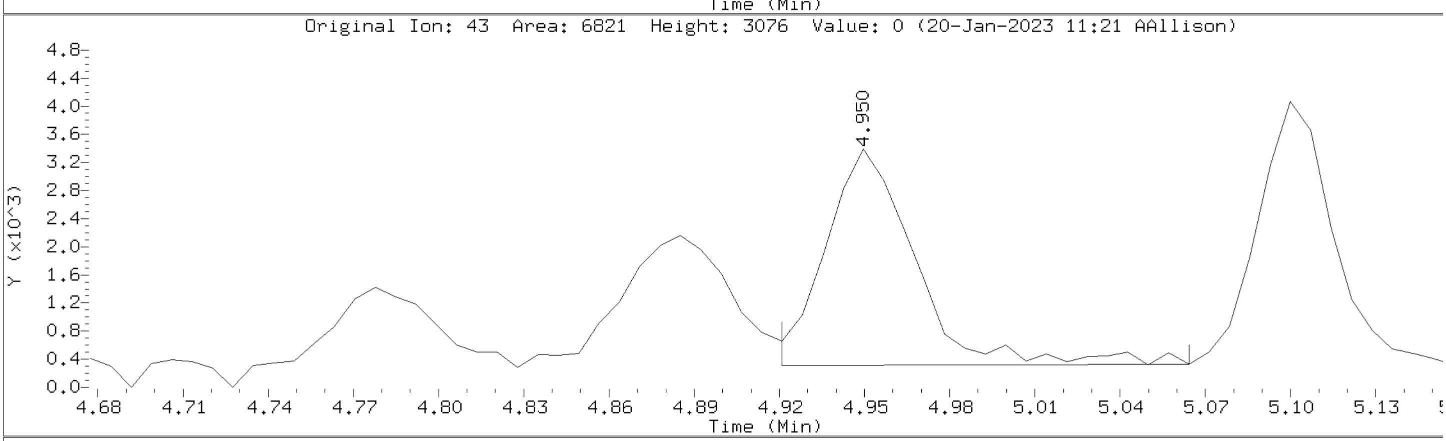
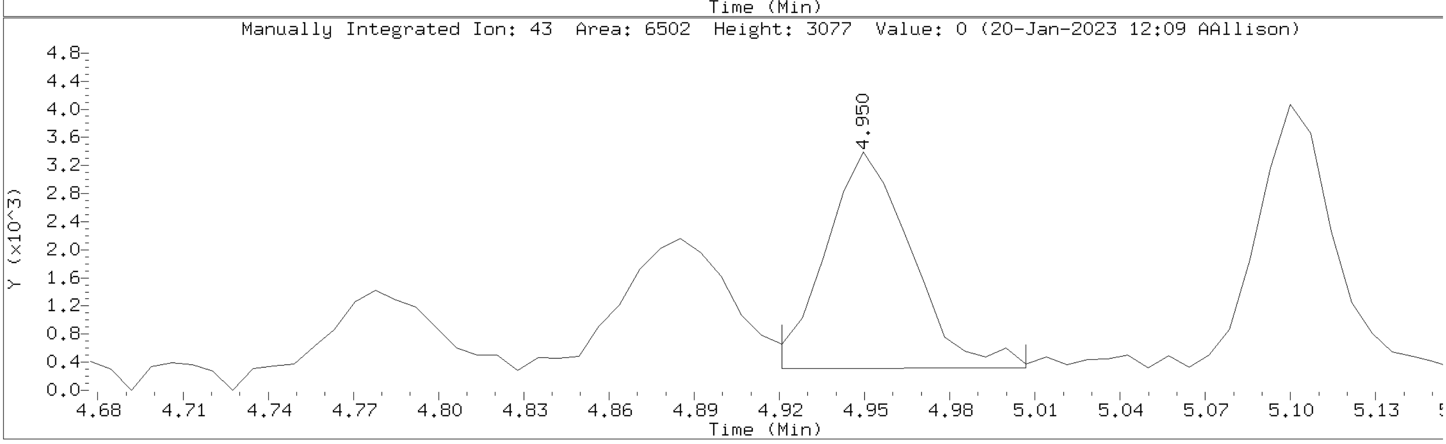
Injection Date: 19-JAN-2023 15:46
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL3

Compound: tert-Amylmethyl ether   Review Code: GT
CAS Number: 994-05-8









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a07.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 19-JAN-2023 16:16
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal4,335780:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.225	1.218	(0.238)	16299	5.00000	5.58(M)	LT
2 Chloromethane	50	1.439	1.397	(0.280)	19020	5.00000	5.68(M)	LT
3 Vinyl Chloride	62	1.404	1.397	(0.273)	18755	5.00000	6.81(M)	LT
4 Bromomethane	94	1.604	1.597	(0.312)	10683	5.00000	4.39(M)	LT
5 Chloroethane	64	1.661	1.655	(0.324)	11464	5.00000	6.27	
6 Trichlorofluoromethane	101	1.819	1.805	(0.354)	20476	5.00000	6.46	
7 Diethyl ether	74	1.991	1.977	(0.388)	7200	5.00000	3.95	
8 Acrolein	56	2.098	2.085	(0.409)	80999	100.000	115	
9 1,1,2trichlorotrifluoroethane	101	2.149	2.134	(0.418)	10472	5.00000	4.54	
10 1,1-Dichloroethene	96	2.163	2.149	(0.421)	10465	5.00000	4.09	
11 Acetone	43	2.206	2.192	(0.430)	32824	25.0000	23.0	
12 Iodomethane	142	2.285	2.271	(0.445)	10152	5.00000	5.10(M)	LT
13 Carbon Disulfide	76	2.335	2.321	(0.455)	33378	5.00000	4.30	
14 Acetonitrile	39	2.428	2.407	(0.473)	18040	25.0000	19.6(M)	GT
15 allyl chloride	41	2.428	2.407	(0.473)	31939	5.00000	4.38	
16 Methyl Acetate	43	2.435	2.421	(0.474)	74106	25.0000	21.9	
17 Methylene Chloride	84	2.528	2.507	(0.492)	15291	5.00000	3.60	
18 tert-Butyl Alcohol	59	2.607	2.586	(0.508)	11465	25.0000	19.6	
19 Acrylonitrile	53	2.743	2.722	(0.534)	34839	25.0000	22.0	
20 Methyl-tert-butyl ether	73	2.743	2.722	(0.534)	31945	5.00000	4.16	
21 1,2-Dichloroethene (trans)	96	2.750	2.729	(0.536)	12277	5.00000	4.02	
22 n-Hexane	57	2.972	2.951	(0.579)	18400	5.00000	3.85(M)	GT
23 1,1-Dichloroethane	63	3.151	3.130	(0.614)	20665	5.00000	4.53	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.194	3.166	(0.622)	171934	20.0000	22.8	
	25 Diisopropyl ether	45	3.187	3.166	(0.621)	42844	5.00000	4.42	
	26 chloroprene	53	3.237	3.209	(0.630)	17565	5.00000	4.45(M)	LT
	27 Ethyl-tert-butyl ether	59	3.595	3.567	(0.700)	34700	5.00000	4.34	
	28 2,2-Dichloropropane	77	3.796	3.768	(0.739)	15720	5.00000	4.25	
	29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.741)	13808	5.00000	3.98	
	30 2-Butanone	43	3.846	3.811	(0.749)	50605	25.0000	20.9	
	31 Ethyl Acetate	88	3.903	3.868	(0.760)	3649	25.0000	22.3	
	32 Propionitrile	54	3.946	3.911	(0.768)	14561	25.0000	21.7	
	33 Methacrylonitrile	41	4.111	4.090	(0.801)	79420	25.0000	20.3(M)	LT
	34 Bromochloromethane	49	4.097	4.075	(0.798)	11007	5.00000	4.58	
	35 Tetrahydrofuran	42	4.161	4.133	(0.810)	41682	25.0000	21.0	
	36 Chloroform	83	4.197	4.176	(0.817)	19720	5.00000	4.19	
$	37 Dibromofluoromethane (S)	113	4.391	4.362	(0.855)	115315	50.0000	50.2	
	38 1,1,1-Trichloroethane	97	4.391	4.370	(0.855)	17476	5.00000	4.33	
	39 Cyclohexane	56	4.441	4.413	(0.865)	21631	5.00000	4.23	
	40 Carbon Tetrachloride	117	4.577	4.549	(0.891)	16371	5.00000	4.69	
	41 1,1-Dichloropropene	75	4.584	4.563	(0.893)	14912	5.00000	4.58	
	42 Isobutyl alcohol	43	4.785	4.749	(0.932)	5046	25.0000	22.0	
	43 Benzene	78	4.820	4.799	(0.939)	46451	5.00000	4.41	
	44 1,2-Dichloroethane	62	4.863	4.842	(0.947)	14827	5.00000	4.38	
	45 2,2,4-Trimethylpentane	57	4.892	4.864	(0.953)	31406	5.00000	4.21	
	46 tert-Amylmethyl ether	73	4.949	4.928	(0.964)	34999	5.00000	4.30	
*	47 Fluorobenzene	96	5.136	5.107	(1.000)	453870	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.074)	11834	5.00000	4.40	
	49 Methylcyclohexane	55	5.694	5.673	(1.109)	17874	5.00000	4.24	
	50 1,2-Dichloropropane	63	5.766	5.745	(1.123)	11965	5.00000	4.30	
	51 Dibromomethane	93	5.888	5.867	(1.146)	7363	5.00000	4.38	
	52 1,4-Dioxane	88	5.923	5.902	(1.153)	1205	100.000	76.5	
	53 Methyl methacrylate	69	5.895	5.881	(1.148)	10967	5.00000	4.31(M)	GT
	54 Bromodichloromethane	83	6.052	6.031	(1.179)	14570	5.00000	4.38	
	55 2-Chloroethyl vinyl ether	63	6.368	6.347	(0.822)	43451	25.0000	21.6	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	18120	5.00000	4.30	
	57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	106376	25.0000	22.0	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	433486	50.0000	50.2	
	59 Toluene	91	6.769	6.748	(0.874)	53998	5.00000	4.36	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	16830	5.00000	4.26	
	61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	16932	5.00000	4.30	
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	8864	5.00000	4.47	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	12999	5.00000	4.56	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	17189	5.00000	4.40	
	65 2-Hexanone	43	7.284	7.271	(0.941)	84997	25.0000	21.6	
	66 Dibromochloromethane	129	7.378	7.364	(0.953)	11976	5.00000	4.50	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	11233	5.00000	4.40	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	325175	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	31528	5.00000	4.30	
	70 1,1,1,2-Tetrachloroethane	131	7.815	7.801	(1.009)	11767	5.00000	4.56	
	71 Ethylbenzene	106	7.822	7.815	(1.010)	18485	5.00000	4.46	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	22031	5.00000	4.41	
	73 o-Xylene	106	8.123	8.116	(1.049)	20126	5.00000	4.25	
	74 Styrene	104	8.137	8.122	(1.051)	35428	5.00000	4.32	
	75 Bromoform	173	8.251	8.238	(0.917)	8190	5.00000	4.29(M)	NI
	76 Isopropylbenzene	105	8.323	8.316	(1.075)	54802	5.00000	4.42	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	135673	50.0000	50.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	17793	5.00000	4.20	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	15234	5.00000	4.24	
80 1,2,3-Trichloropropane	110	8.524	8.516	(0.947)	5141	5.00000	4.48	
81 trans-1,4-Dichloro-2-butene	53	8.524	8.516	(1.101)	6025	5.00000	4.50	
82 n-Propylbenzene	91	8.545	8.538	(0.950)	64734	5.00000	4.40	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	34550	5.00000	4.37	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	41112	5.00000	4.39	
85 4-Chlorotoluene	126	8.645	8.638	(0.961)	13301	5.00000	4.60	
86 tert-Butylbenzene	119	8.796	8.789	(0.978)	39772	5.00000	4.38(M)	LT
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.980)	40942	5.00000	4.36	
88 sec-Butylbenzene	105	8.903	8.897	(0.990)	50715	5.00000	4.47	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	20486	5.00000	4.23	
90 p-Isopropyltoluene	119	8.968	8.961	(0.997)	41262	5.00000	4.47	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	148396	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.002)	20560	5.00000	4.11	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	36679	5.00000	4.22	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	34278	5.00000	4.35	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.022)	18042	5.00000	4.38	
96 Hexachloroethane	201	9.312	9.312	(1.035)	4797	5.00000	4.32	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	2941	5.00000	4.41	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	5954	5.00000	4.33	
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	2807	5.00000	4.50	
100 Naphthalene	128	10.057	10.064	(1.118)	18850	5.00000	4.34	
101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.131)	3585	5.00000	4.48	
102 2,methyl-naphthalene	142	10.637	10.644	(1.182)	1040	5.00000	5.05	
103 1-Methylnaphthalene	142	10.751	10.766	(1.195)	426	5.00000	4.17(M)	WP

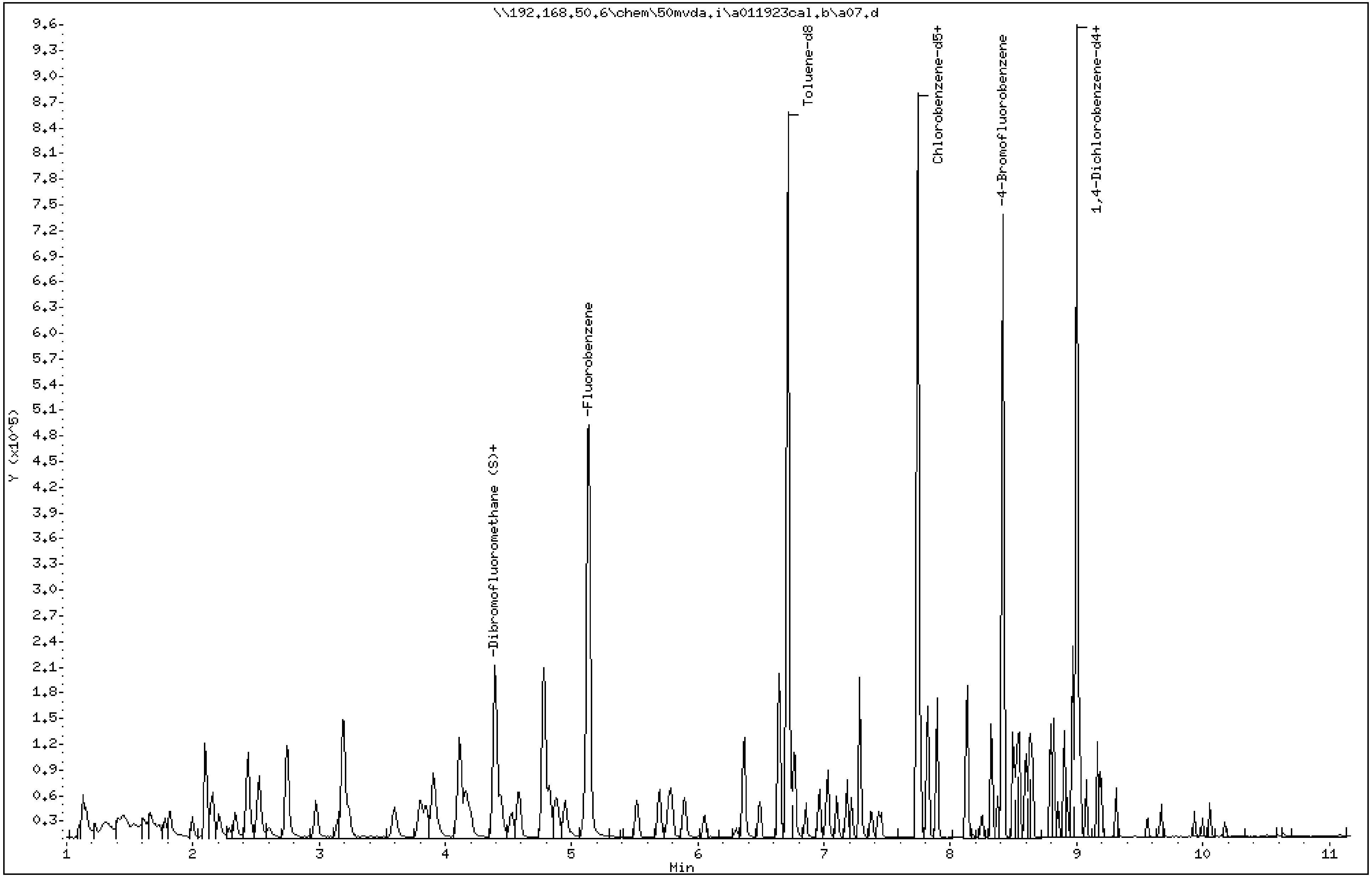
QC Flag Legend

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).
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
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\50mvda.i\a011923cal.b\a07.d
Page 4
Date : 19-JAN-2023 16:16
Client ID: 8260-CAL4
Instrument: 50mvda.i
Sample Info: 8260-CAL4,335780:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a07.d Page 5

Date : 19-JAN-2023 16:16

Client ID: 8260-CAL4 Instrument: 50mvda.i

Sample Info: 8260-CAL4,335780:0

Purge Volume: 5.0 Operator: ala

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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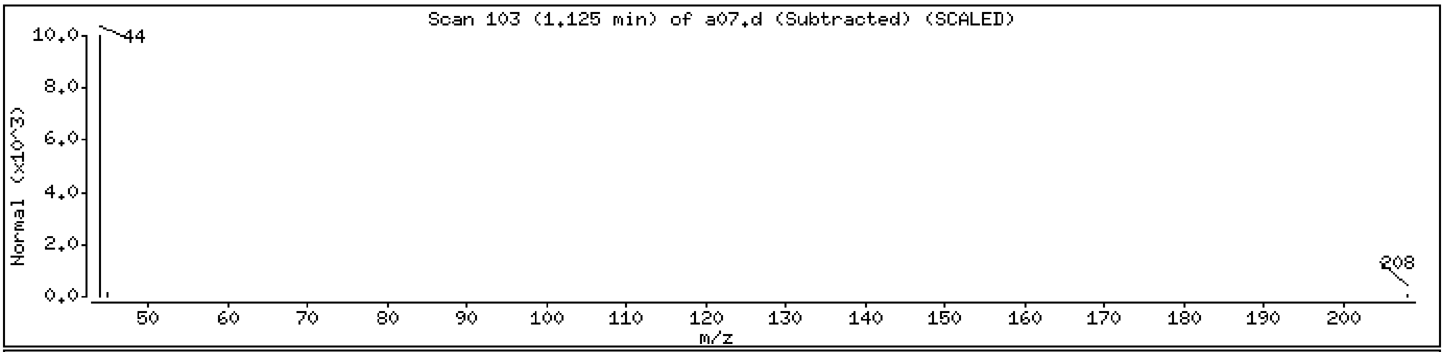

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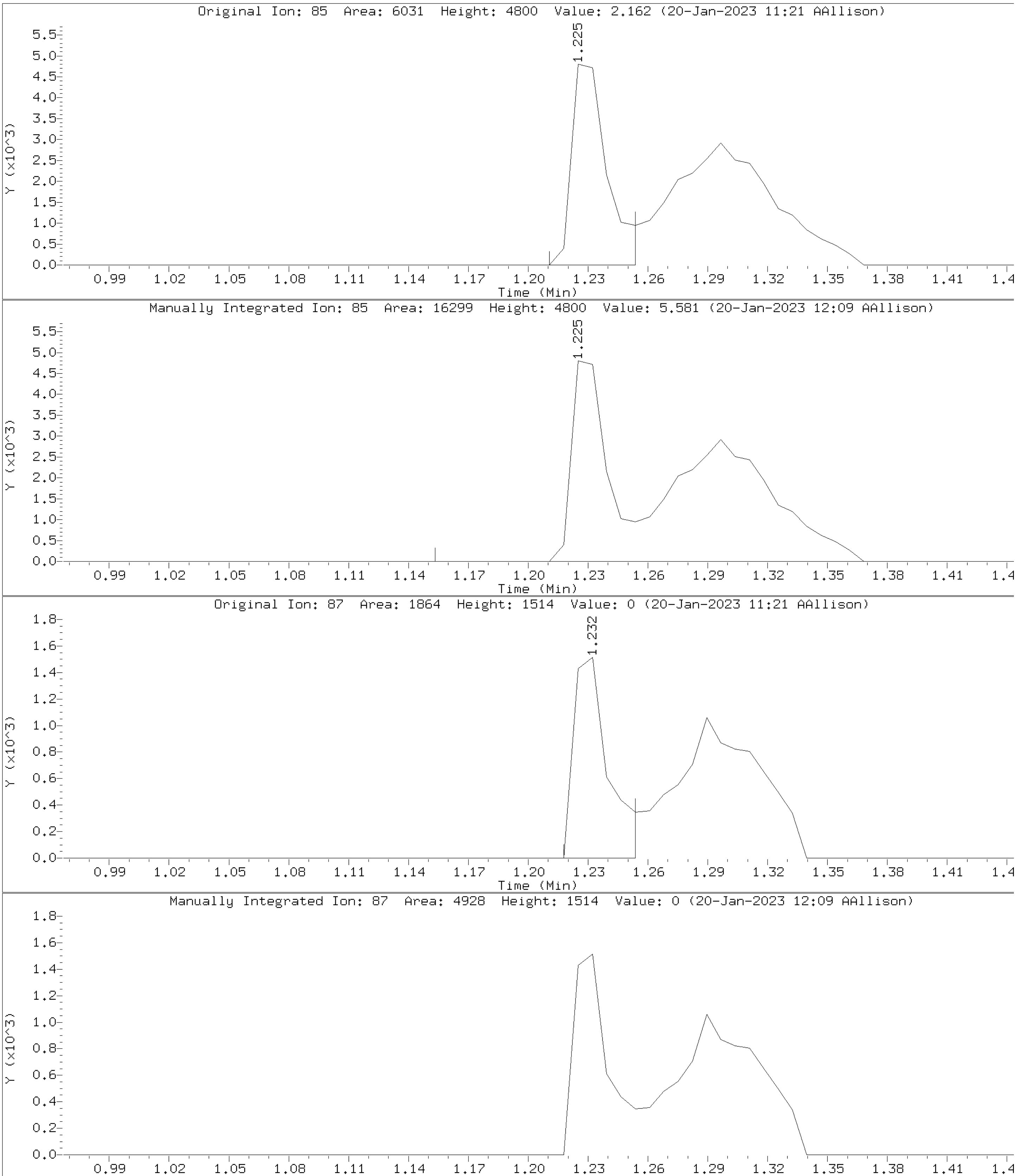
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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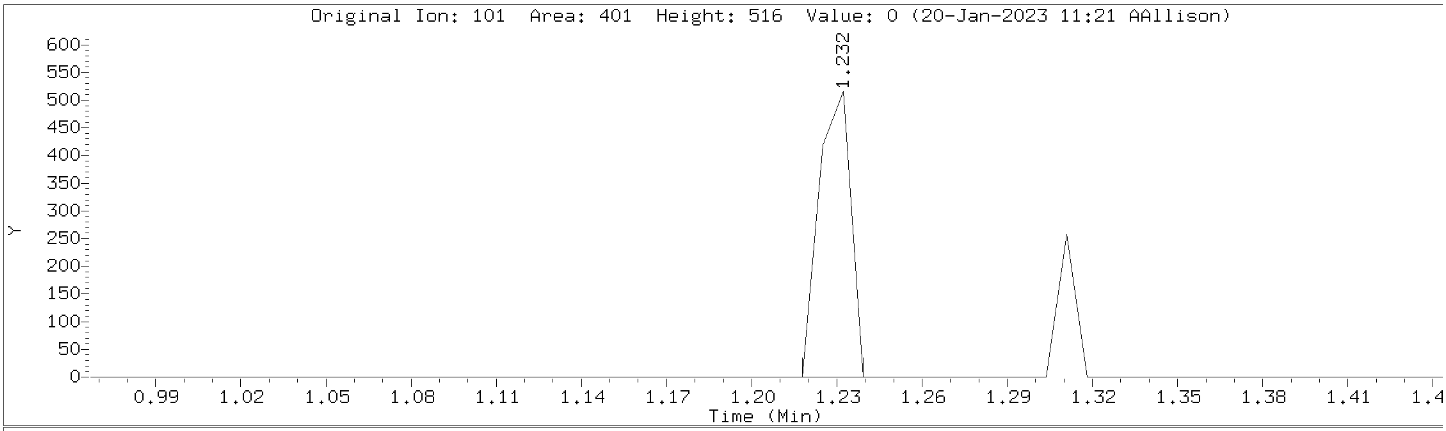
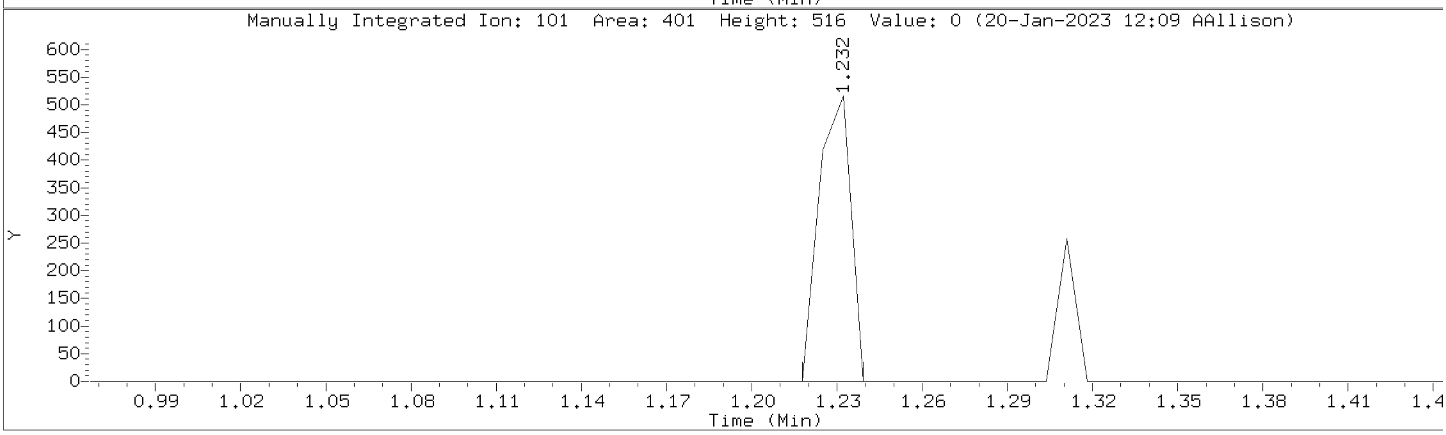
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4





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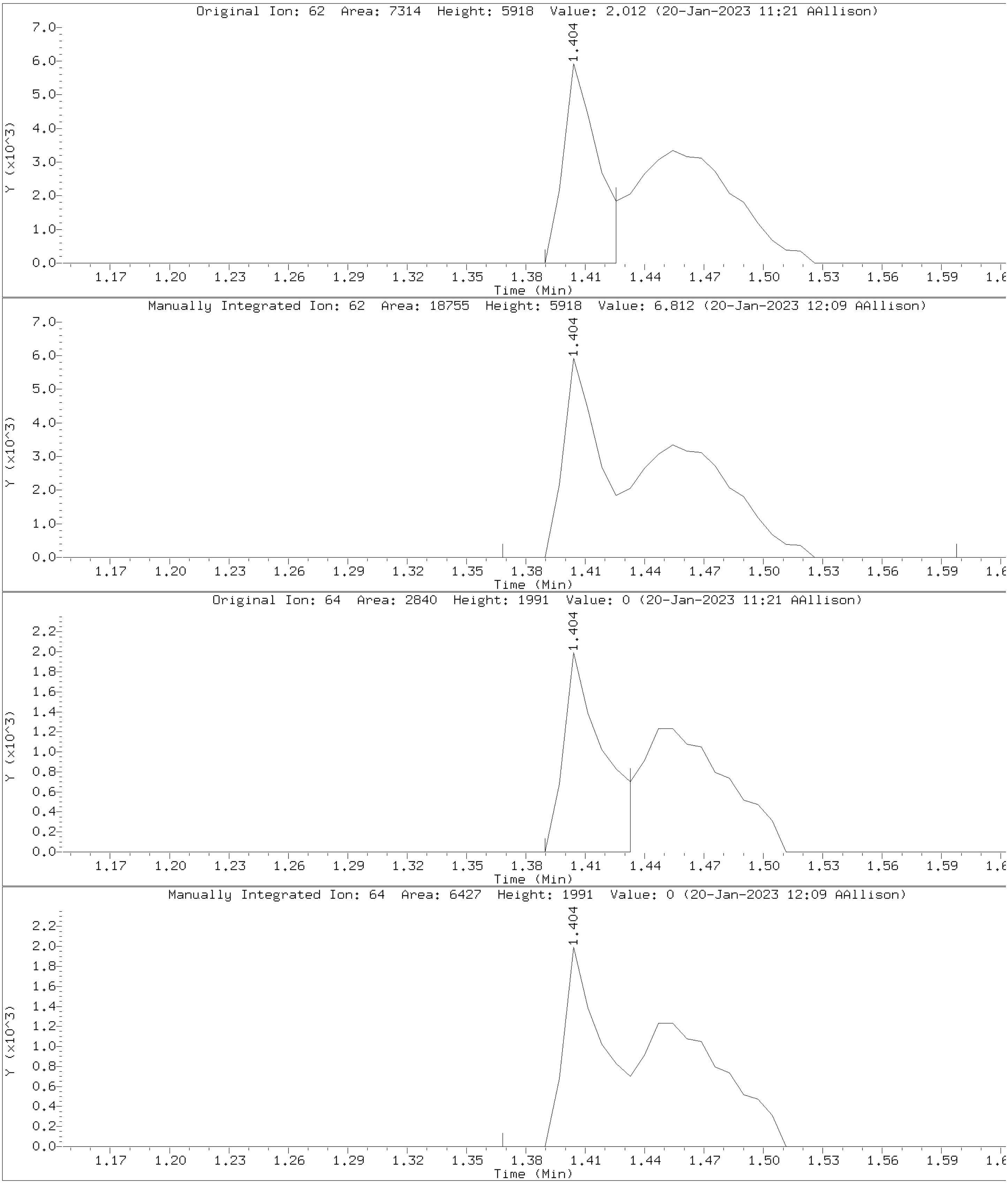
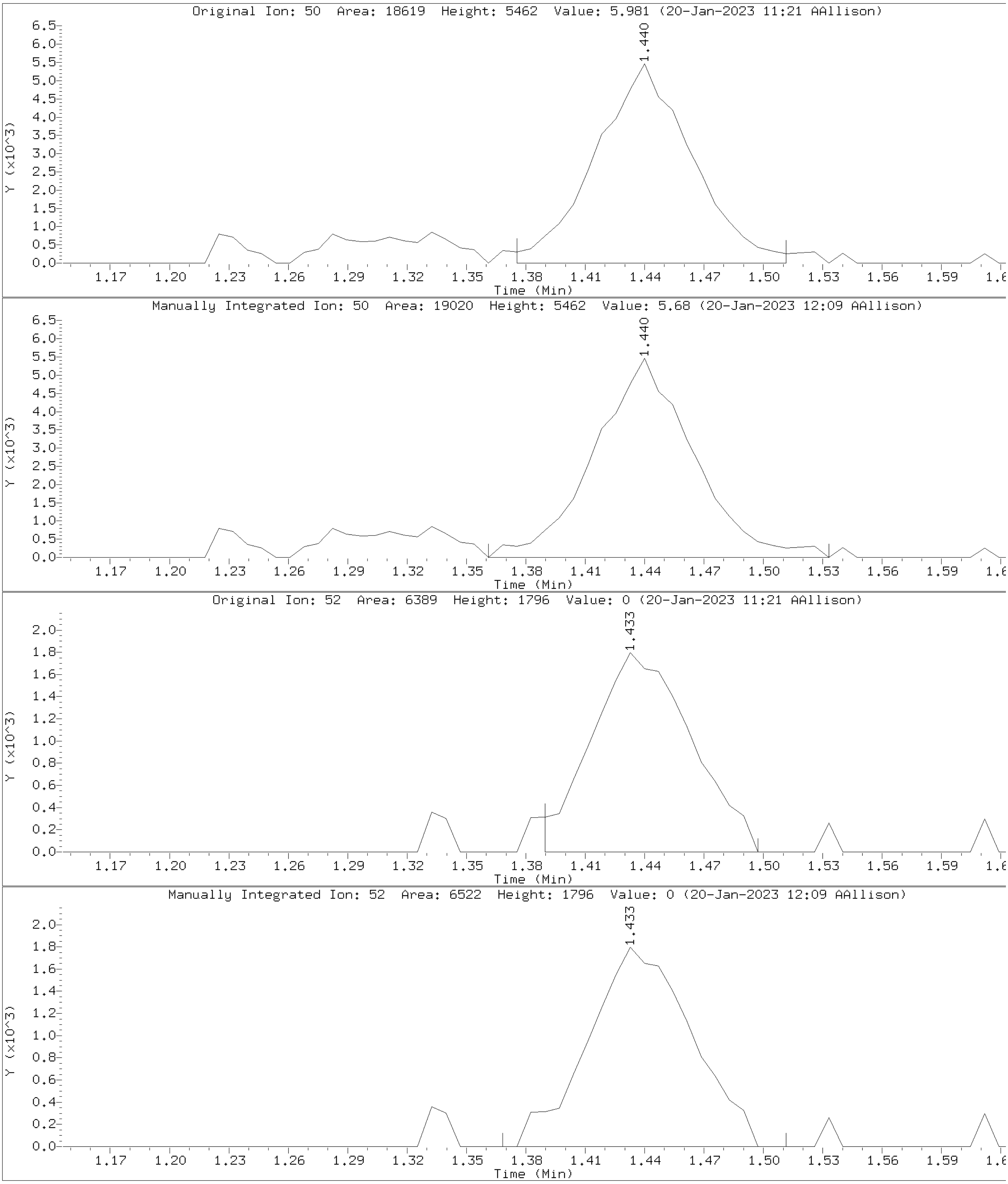
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a07.d
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Chloromethane   Review Code: LT
CAS Number: 74-87-3



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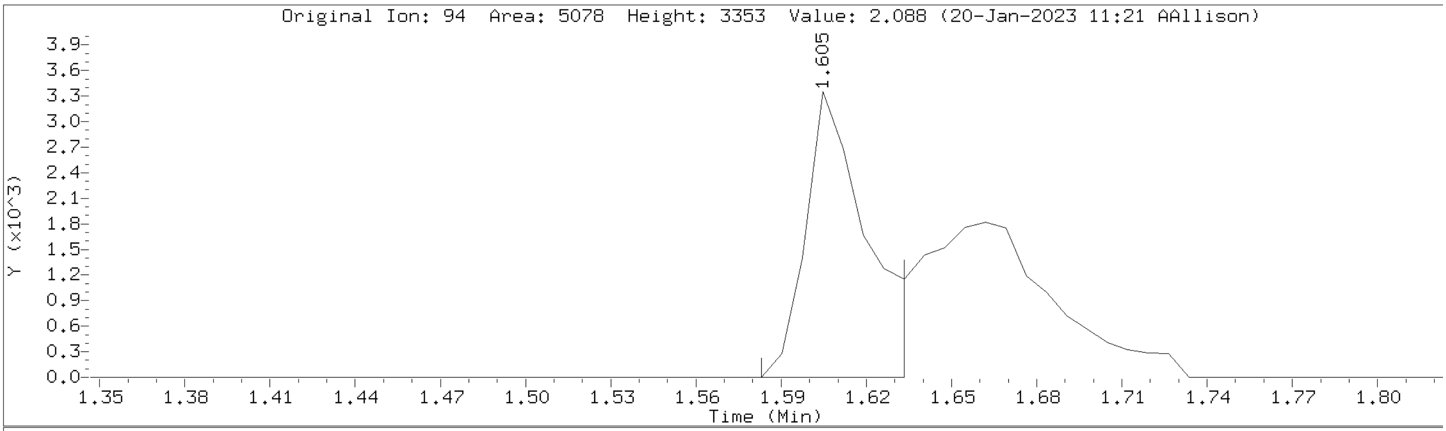
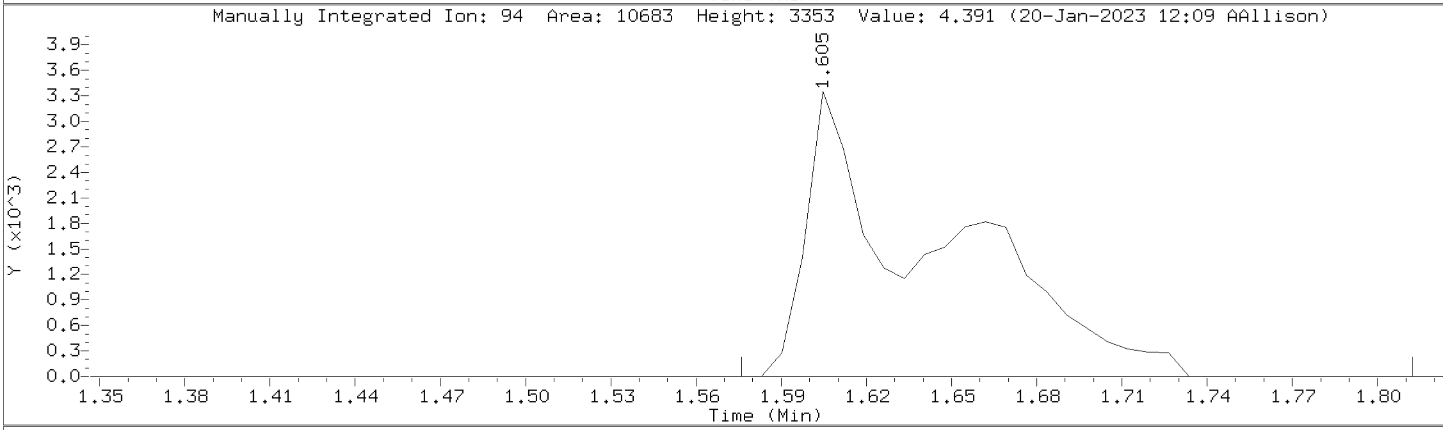
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

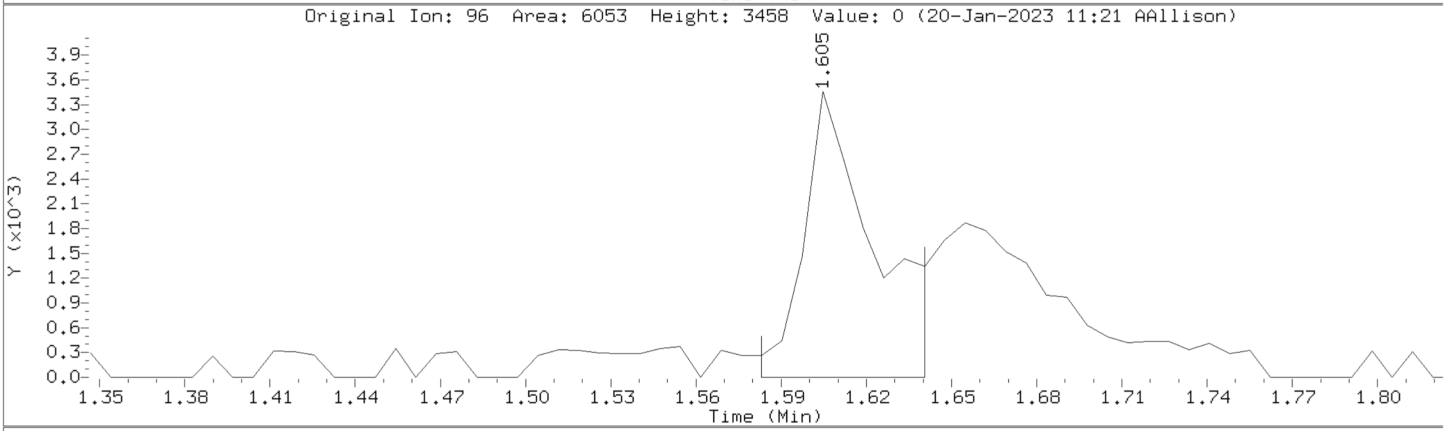
Original Ion: 94 Area: 5078 Height: 3353 Value: 2.088 (20-Jan-2023 11:21 AAllison)



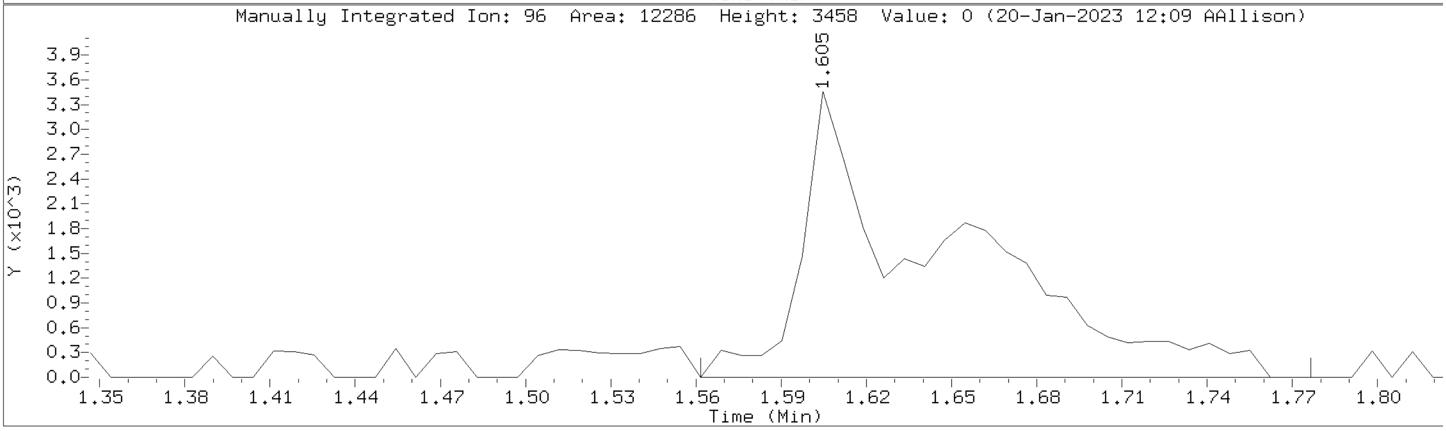
Manually Integrated Ion: 94 Area: 10683 Height: 3353 Value: 4.391 (20-Jan-2023 12:09 AAllison)



Original Ion: 96 Area: 6053 Height: 3458 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 96 Area: 12286 Height: 3458 Value: 0 (20-Jan-2023 12:09 AAllison)



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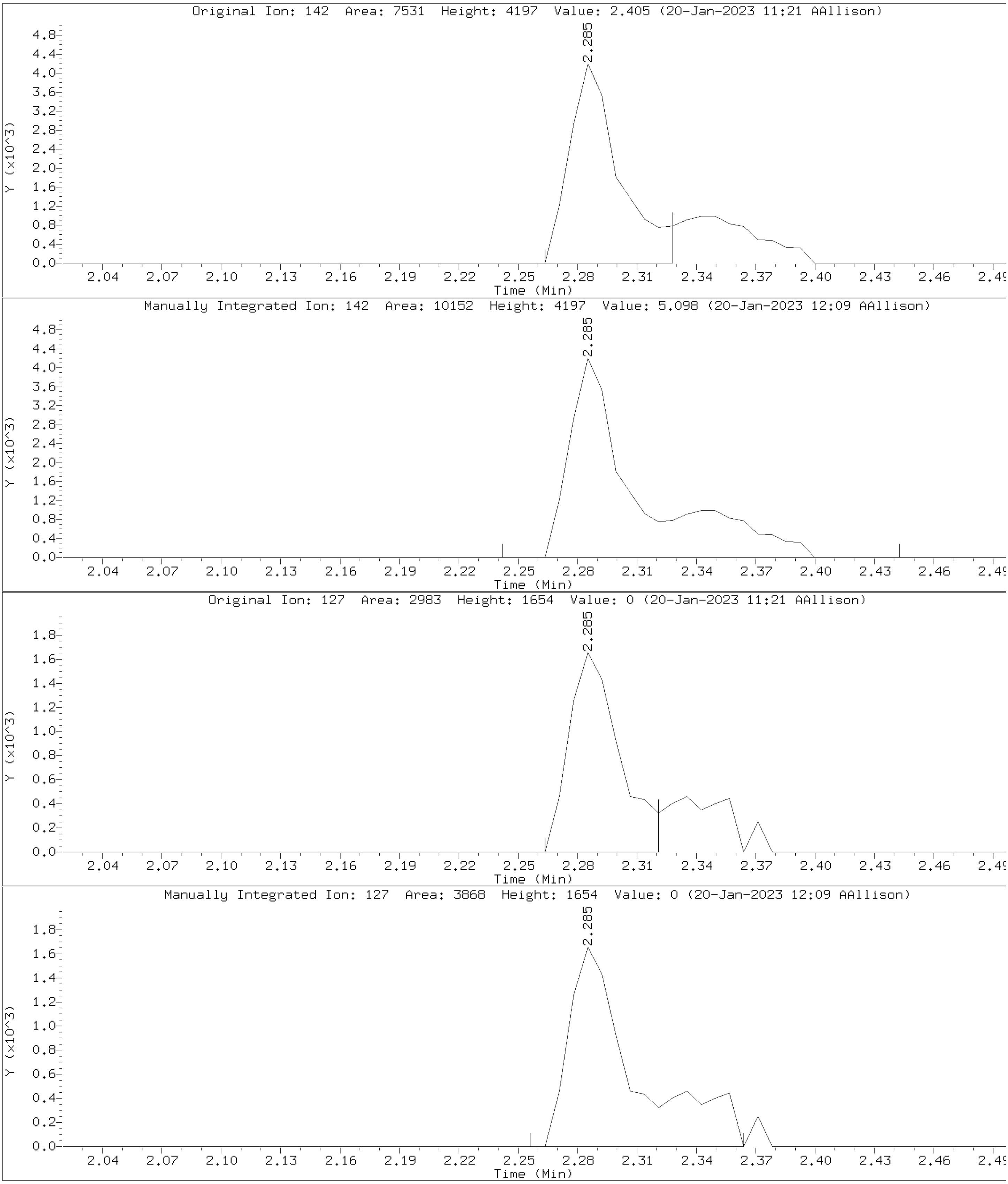
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Iodomethane   Review Code: LT
CAS Number:



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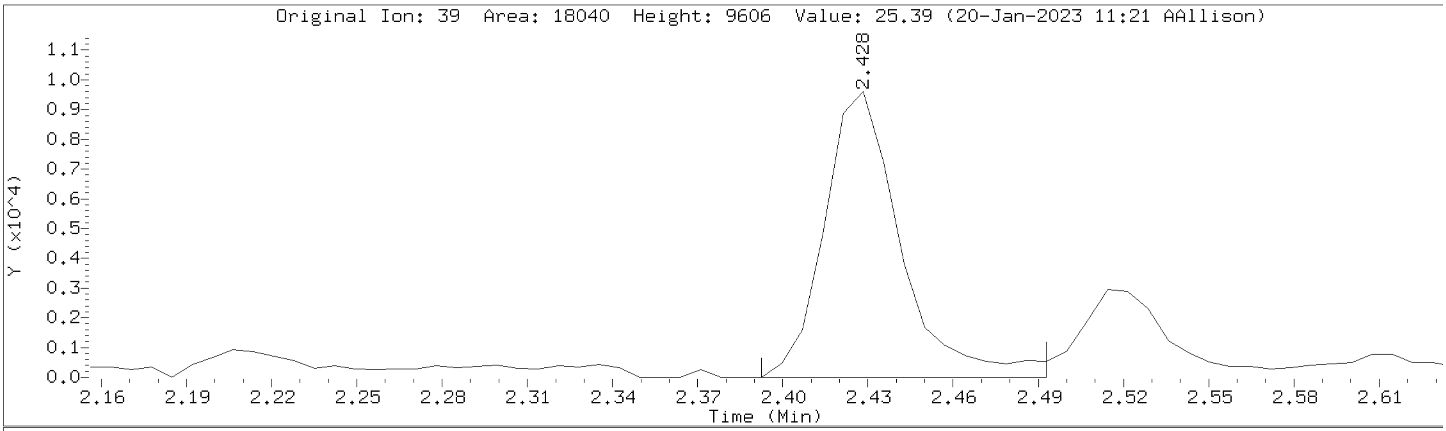
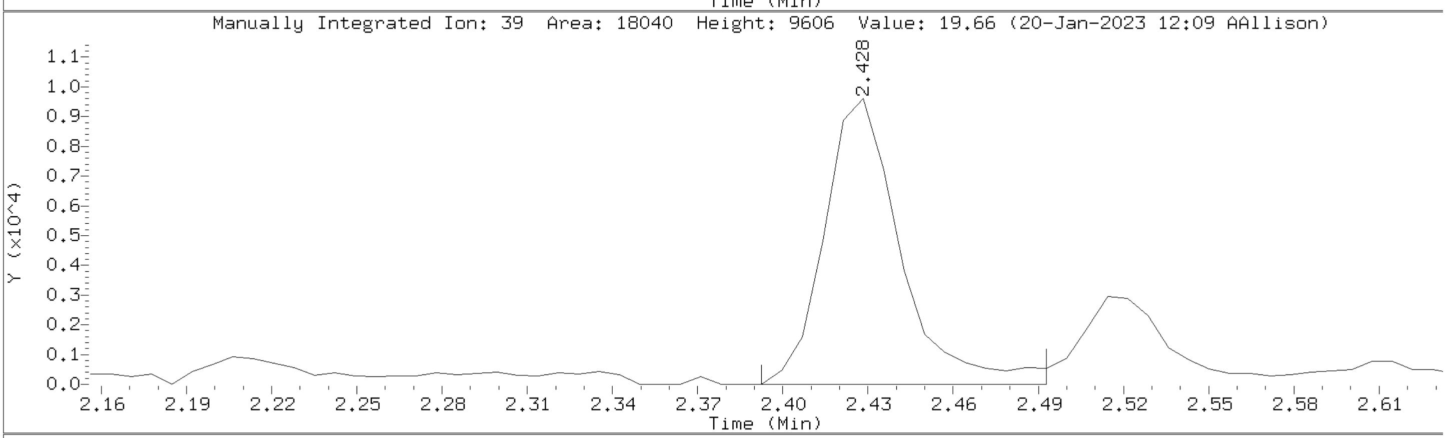
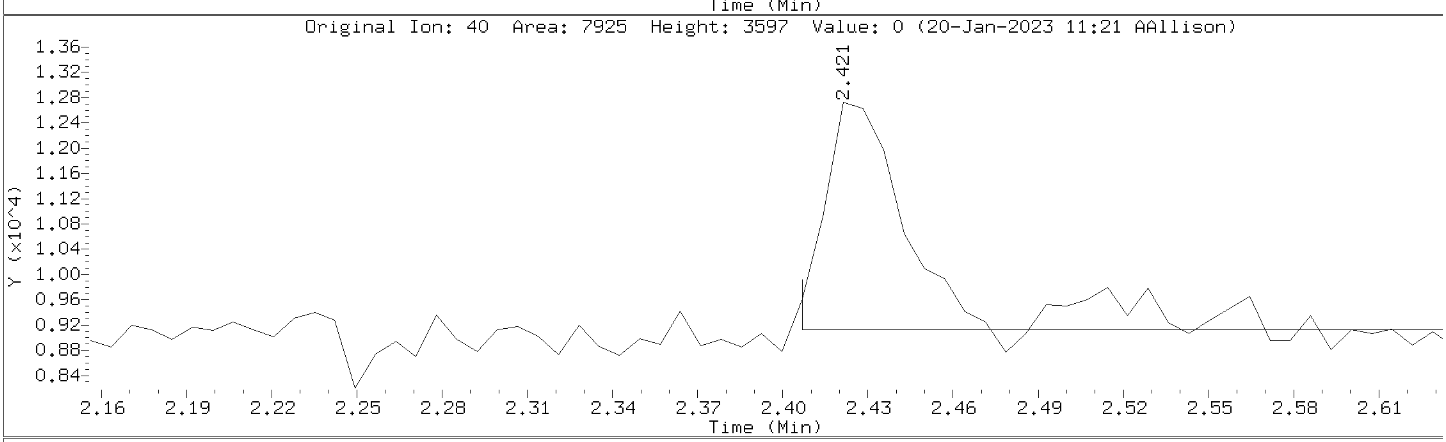
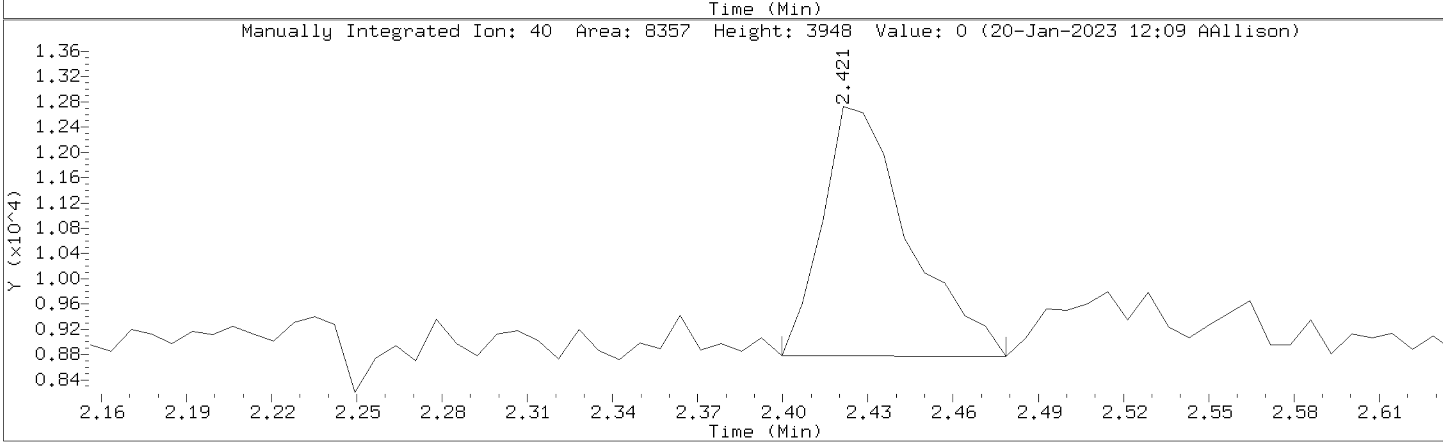
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8









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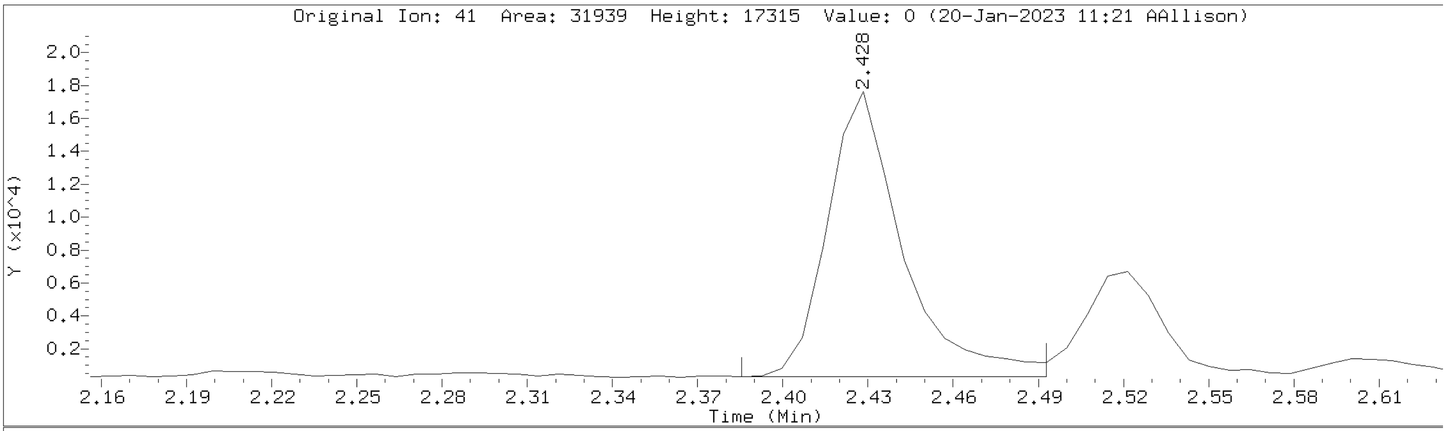
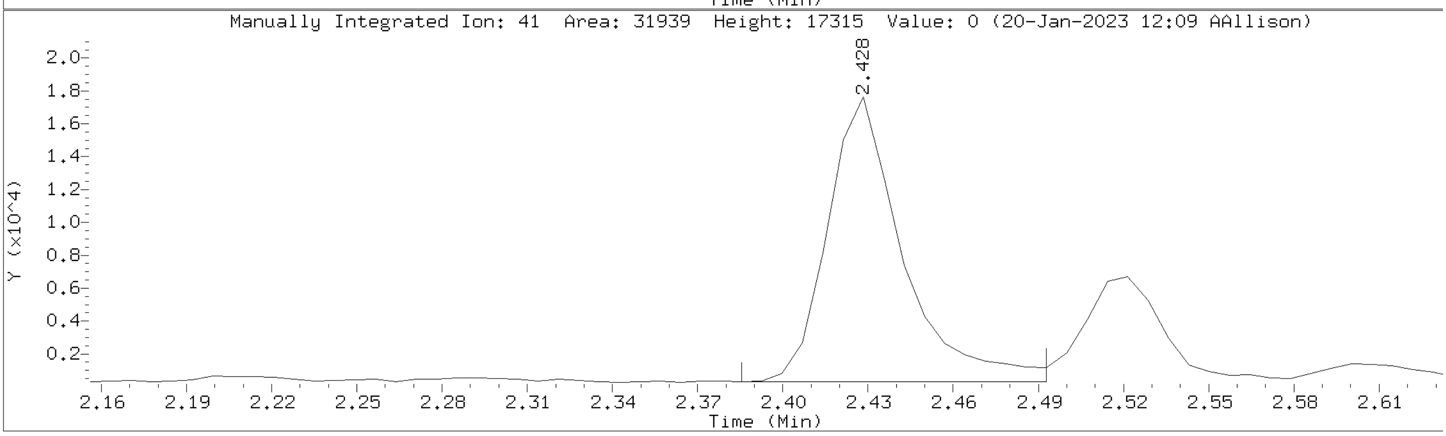
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4





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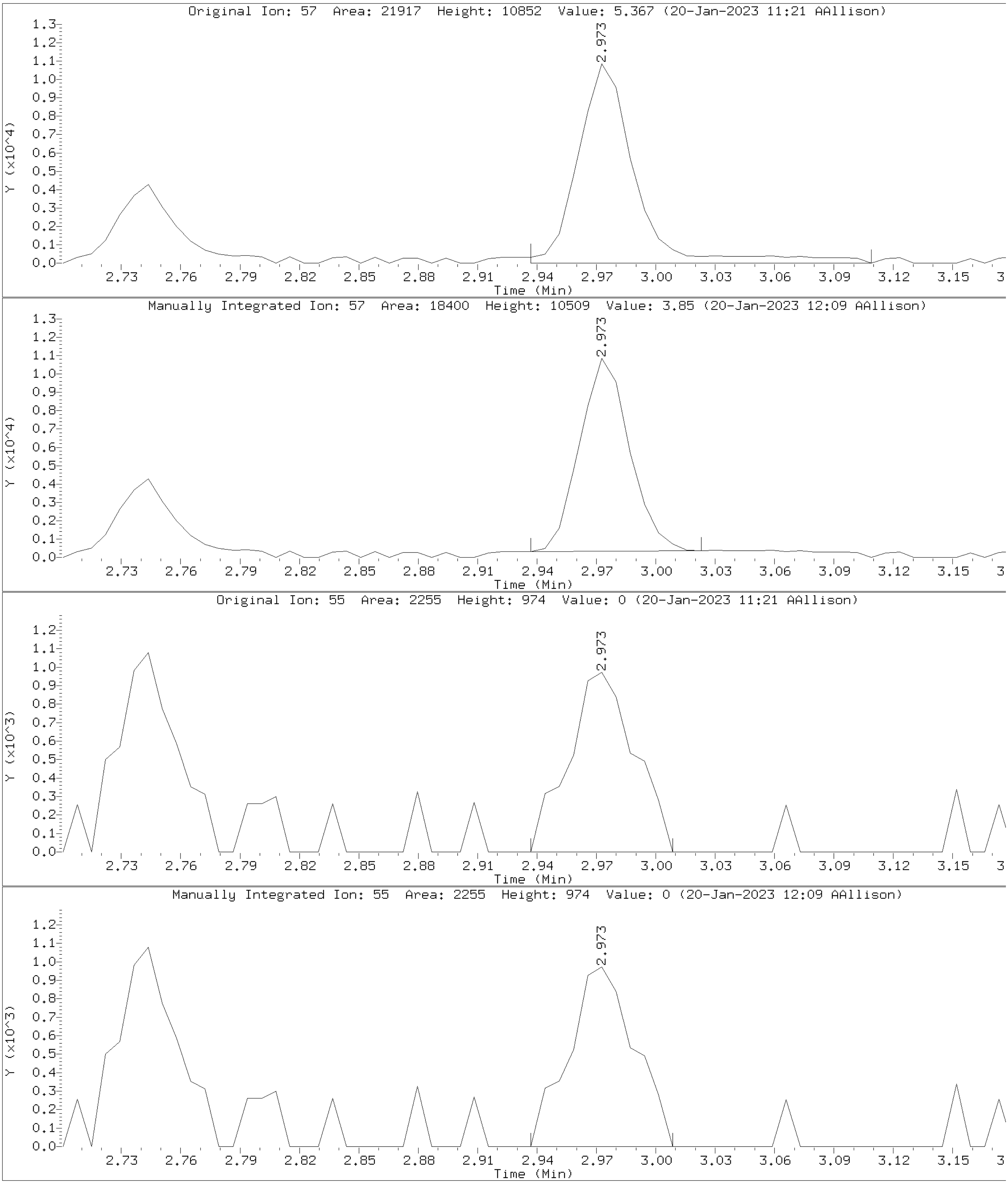
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: n-Hexane   Review Code: GT
CAS Number:



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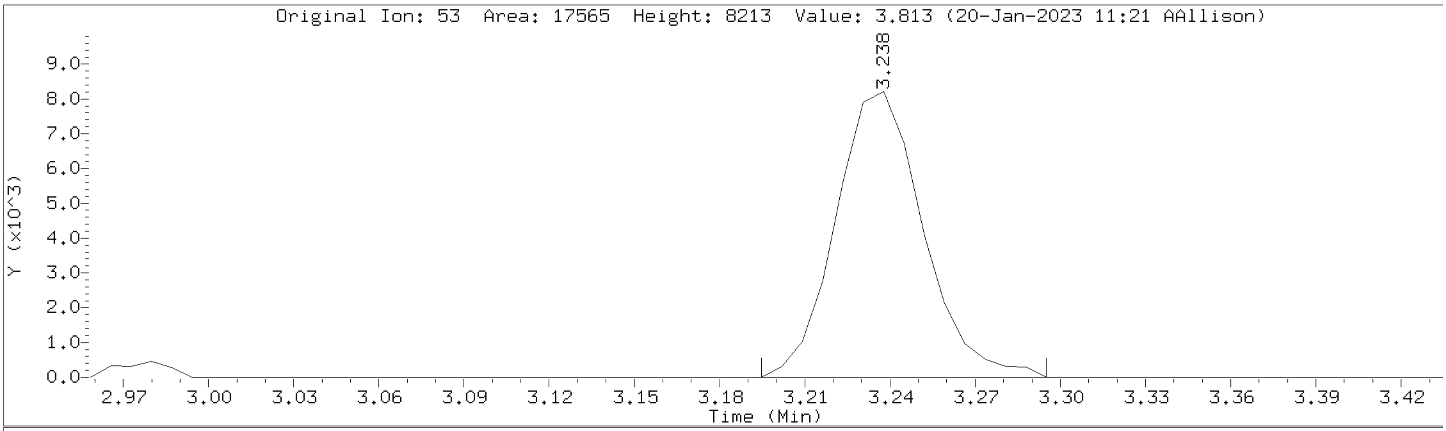
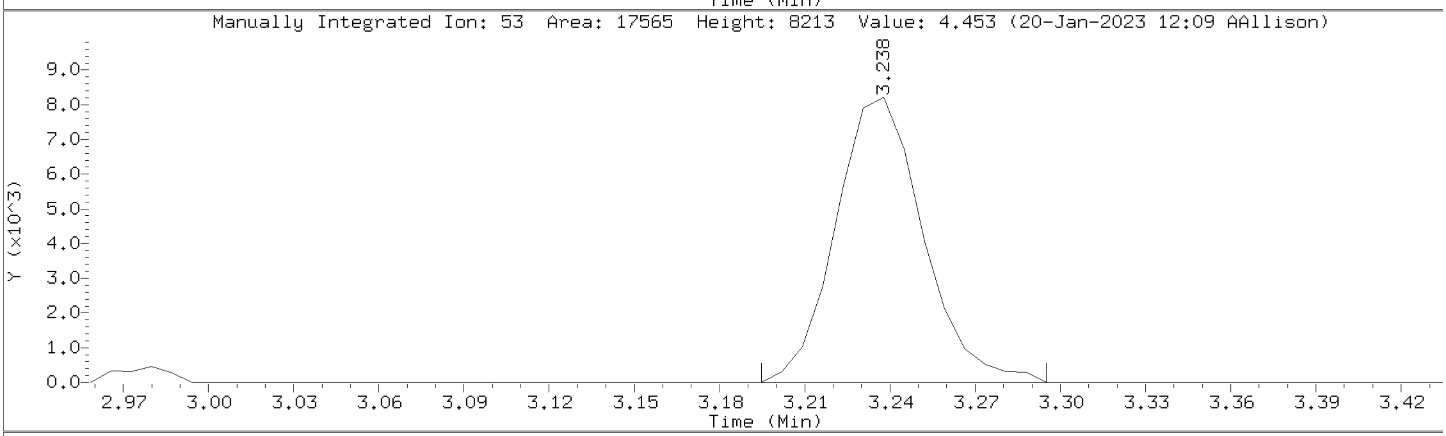
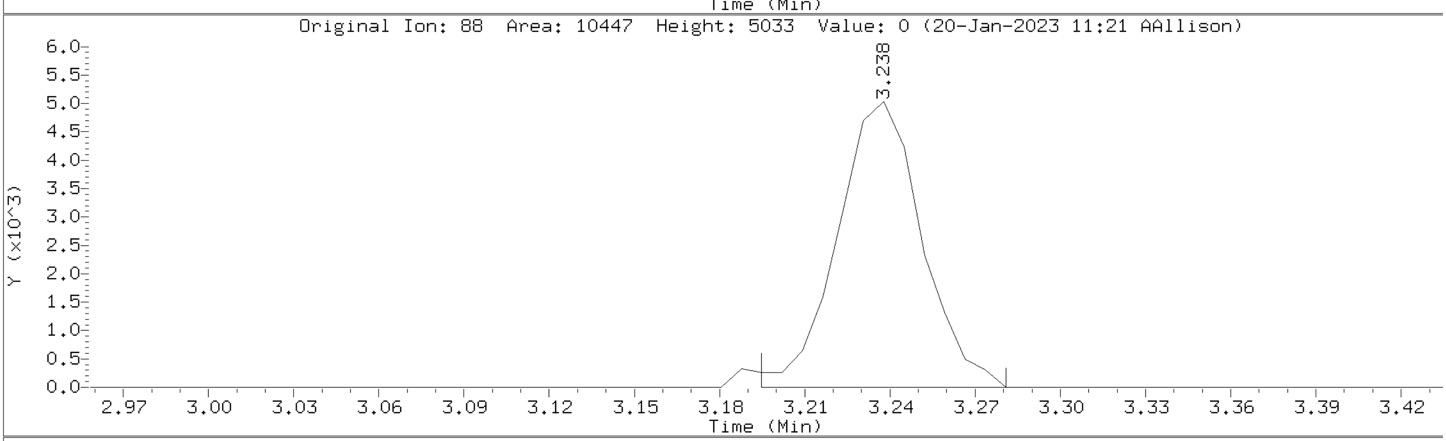
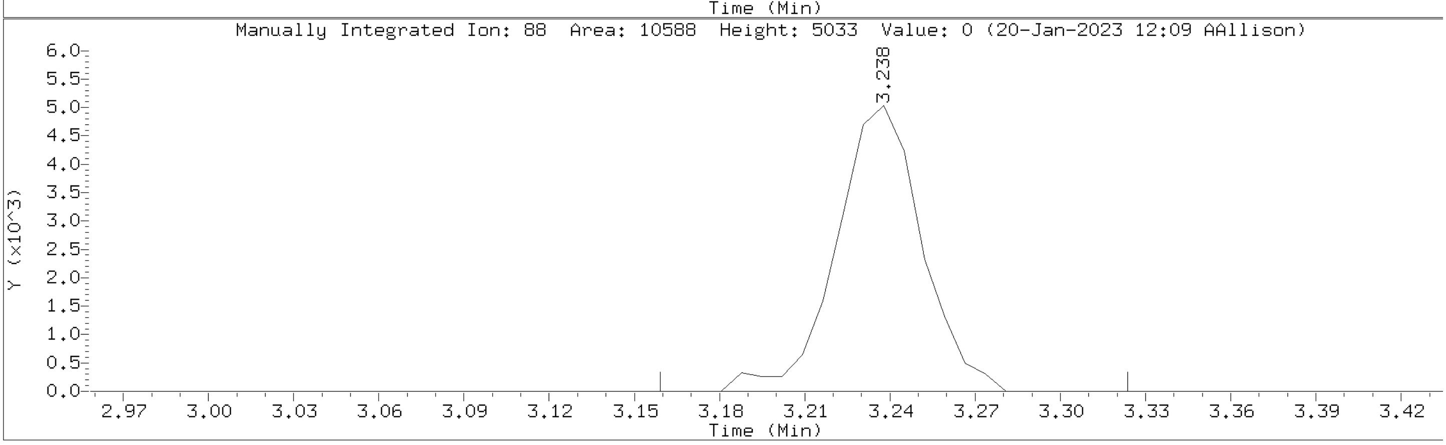
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: chloroprene   Review Code: LT
CAS Number: 126-99-8









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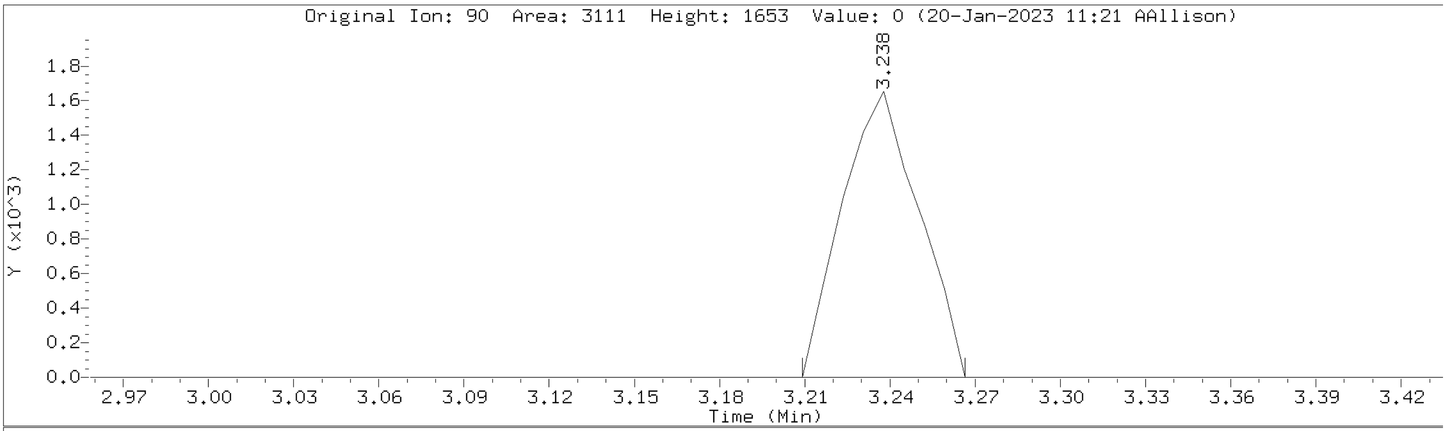
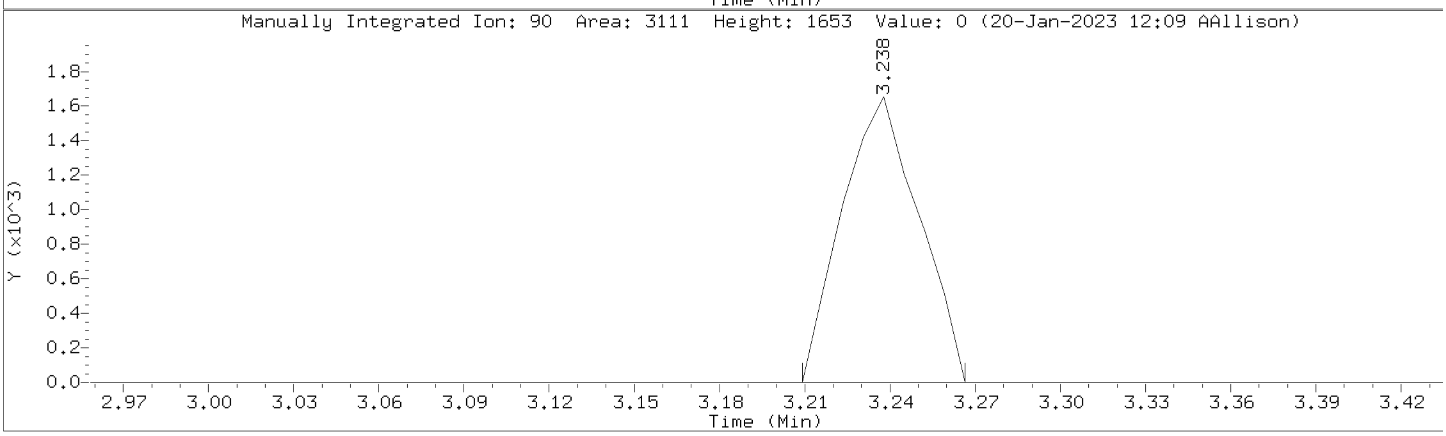
Lab Sample ID: 8260-CAL4





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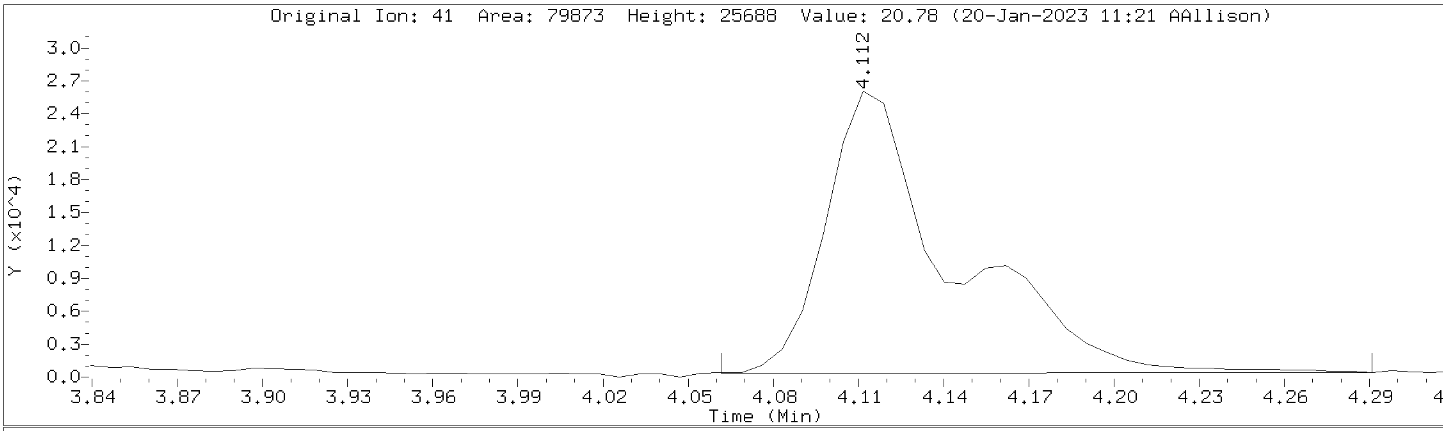
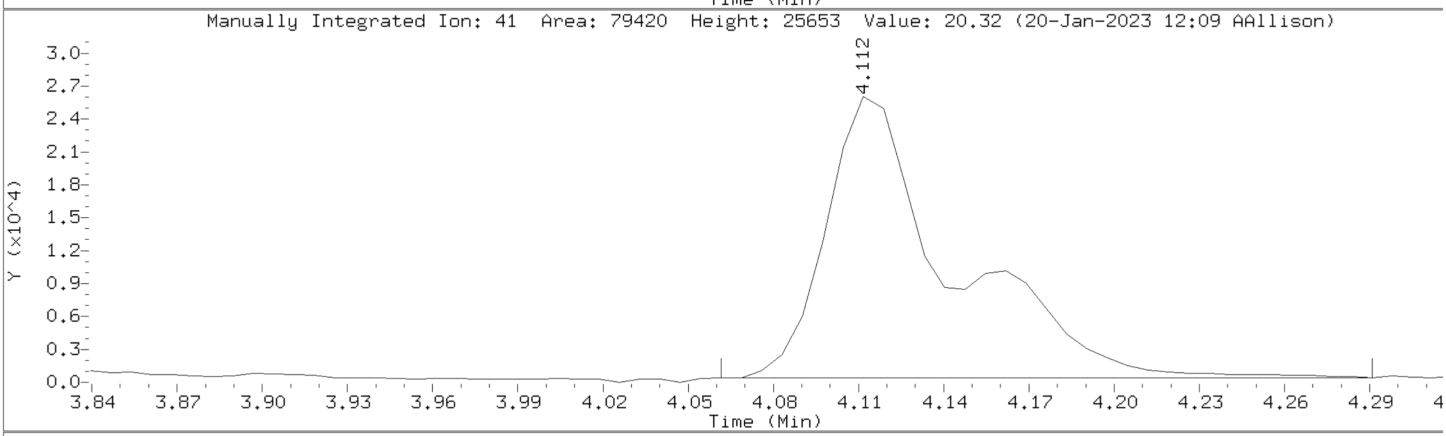
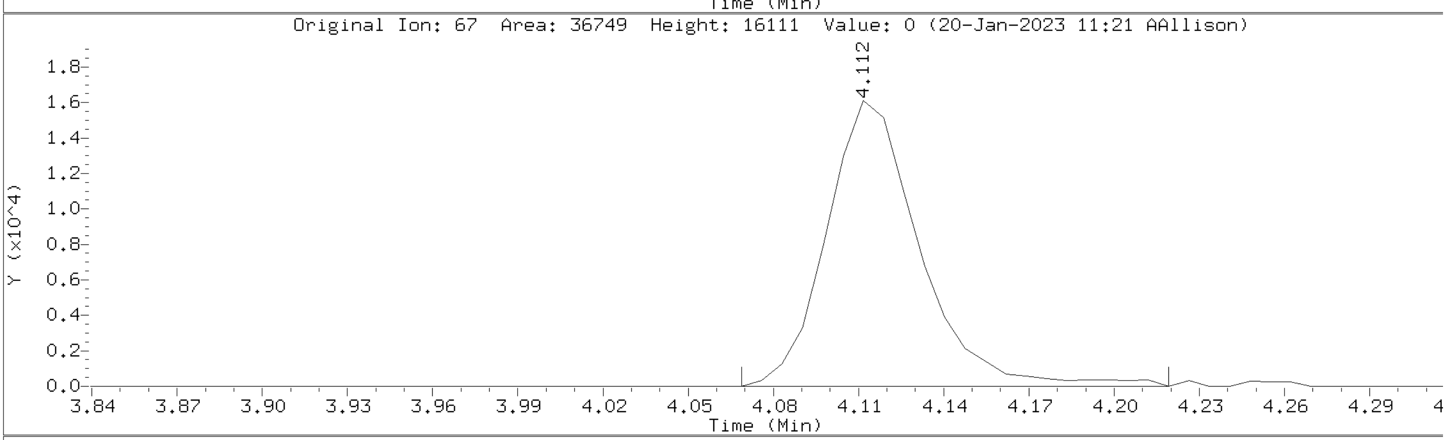
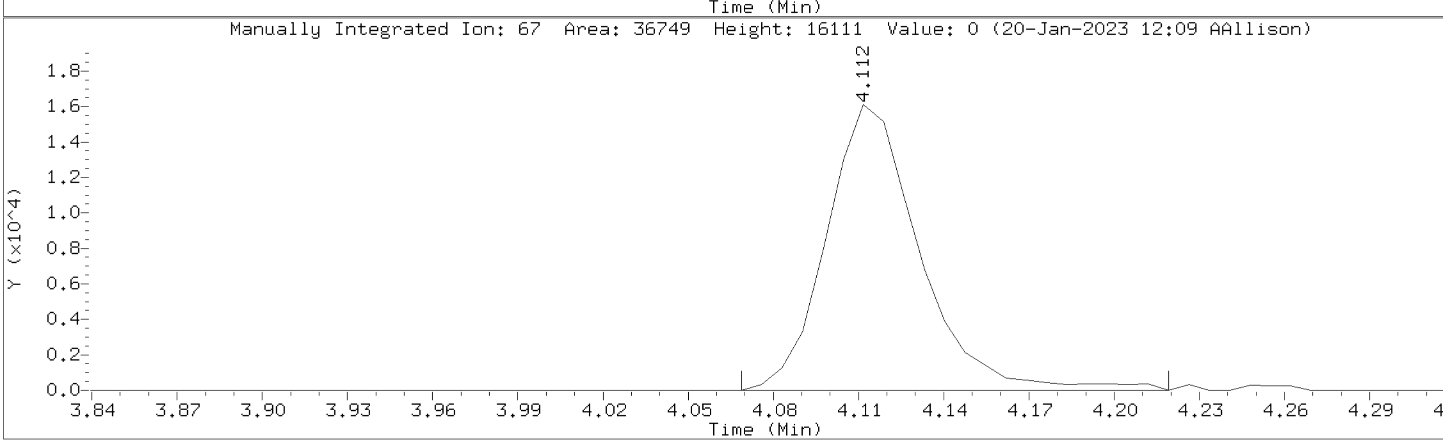
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Methacrylonitrile   Review Code: LT
CAS Number: 126-98-7









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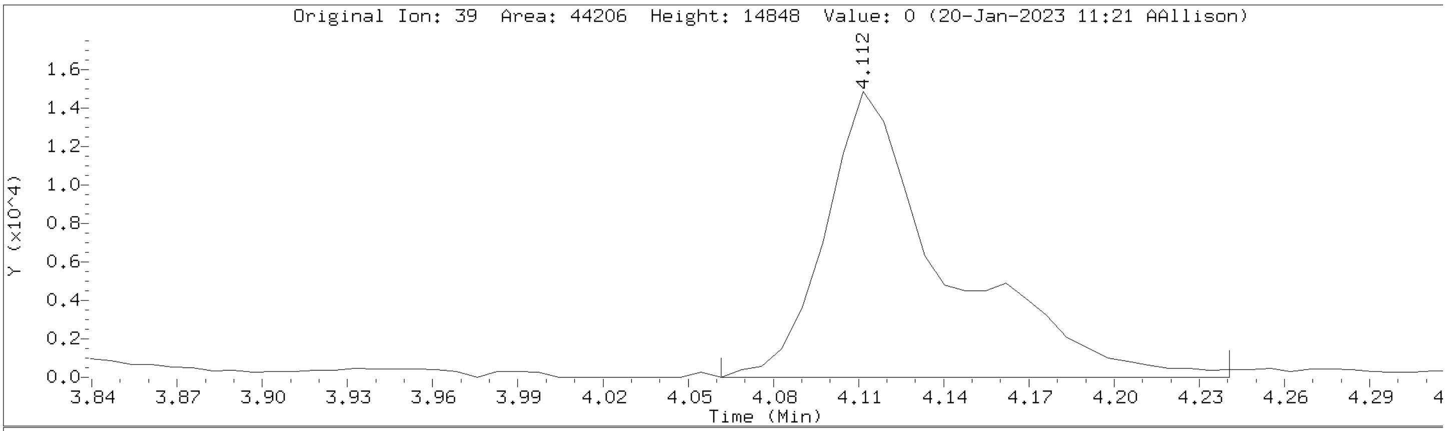
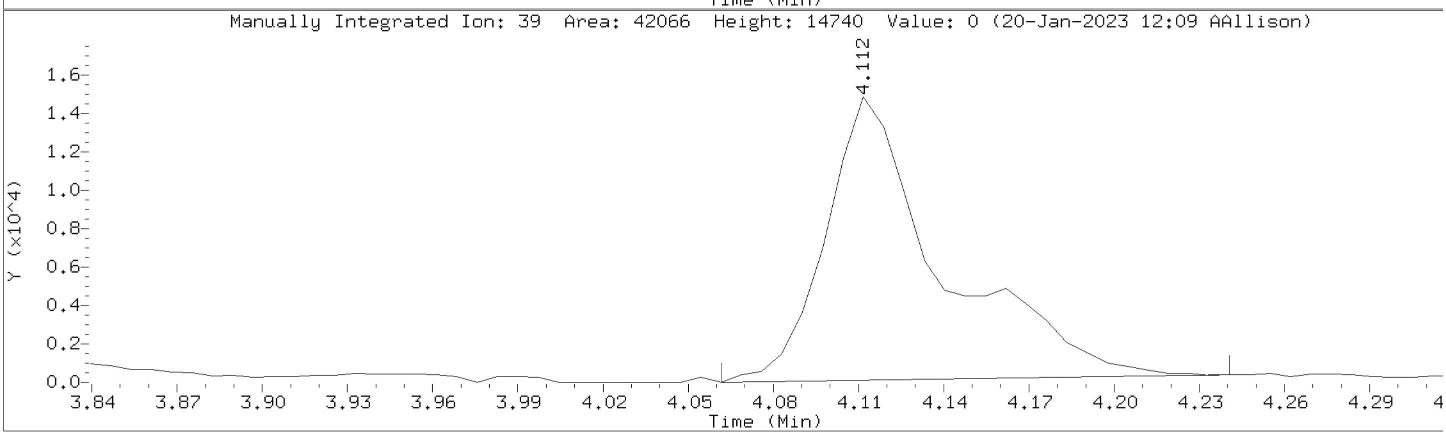
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4





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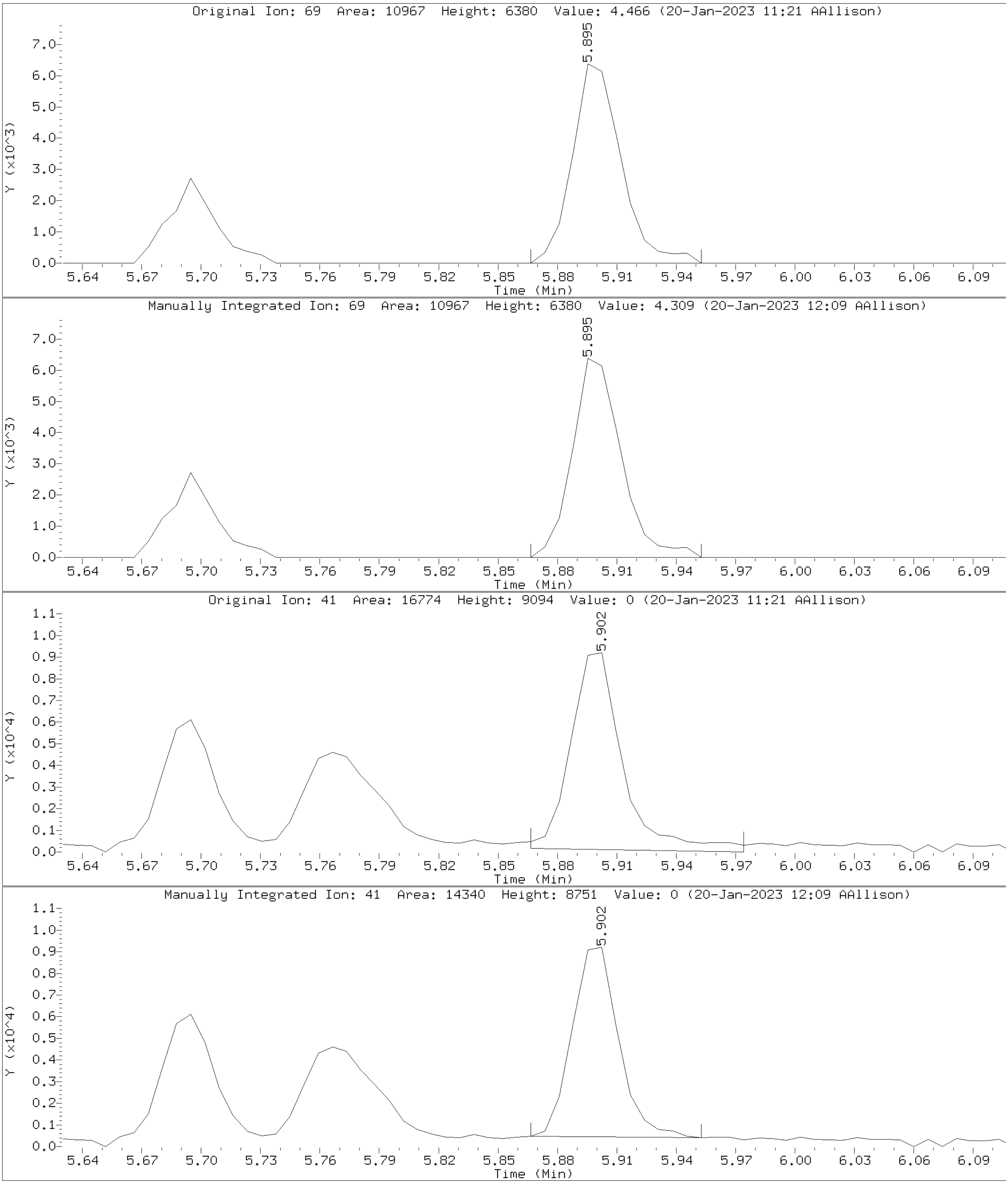
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Methyl methacrylate   Review Code: GT
CAS Number: 80-62-6



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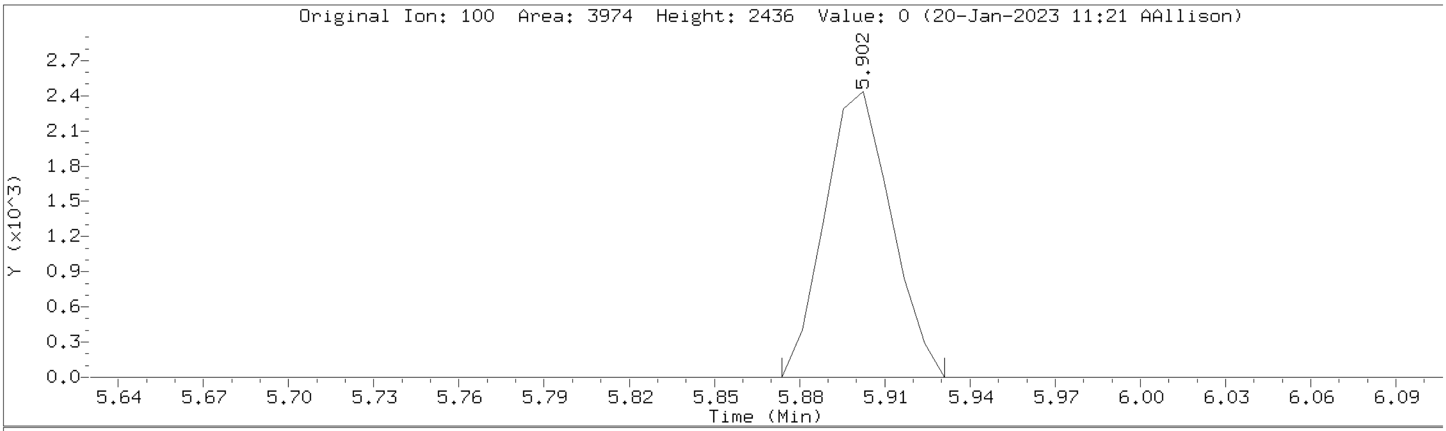

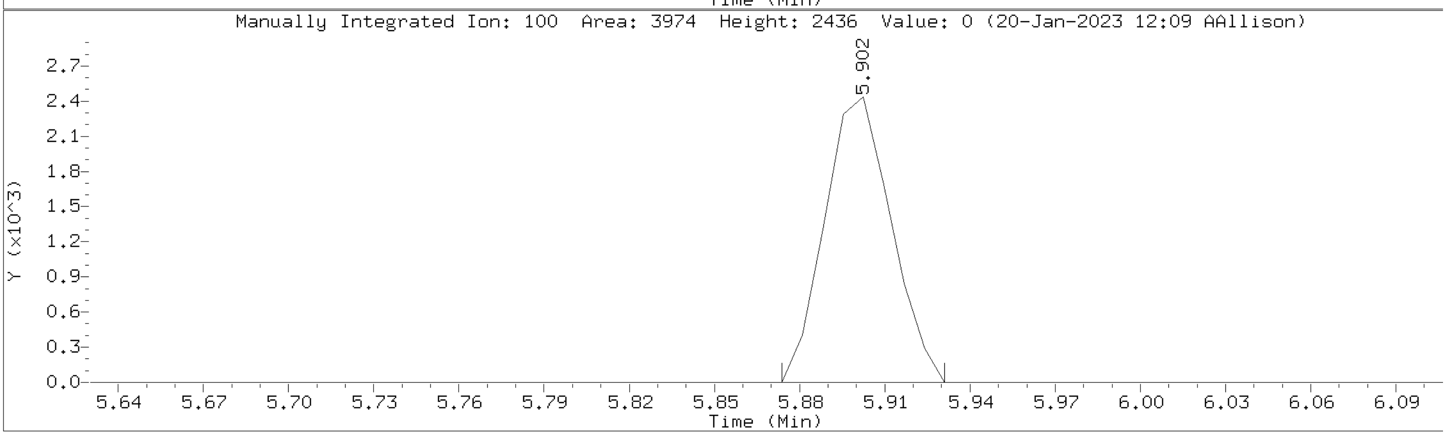

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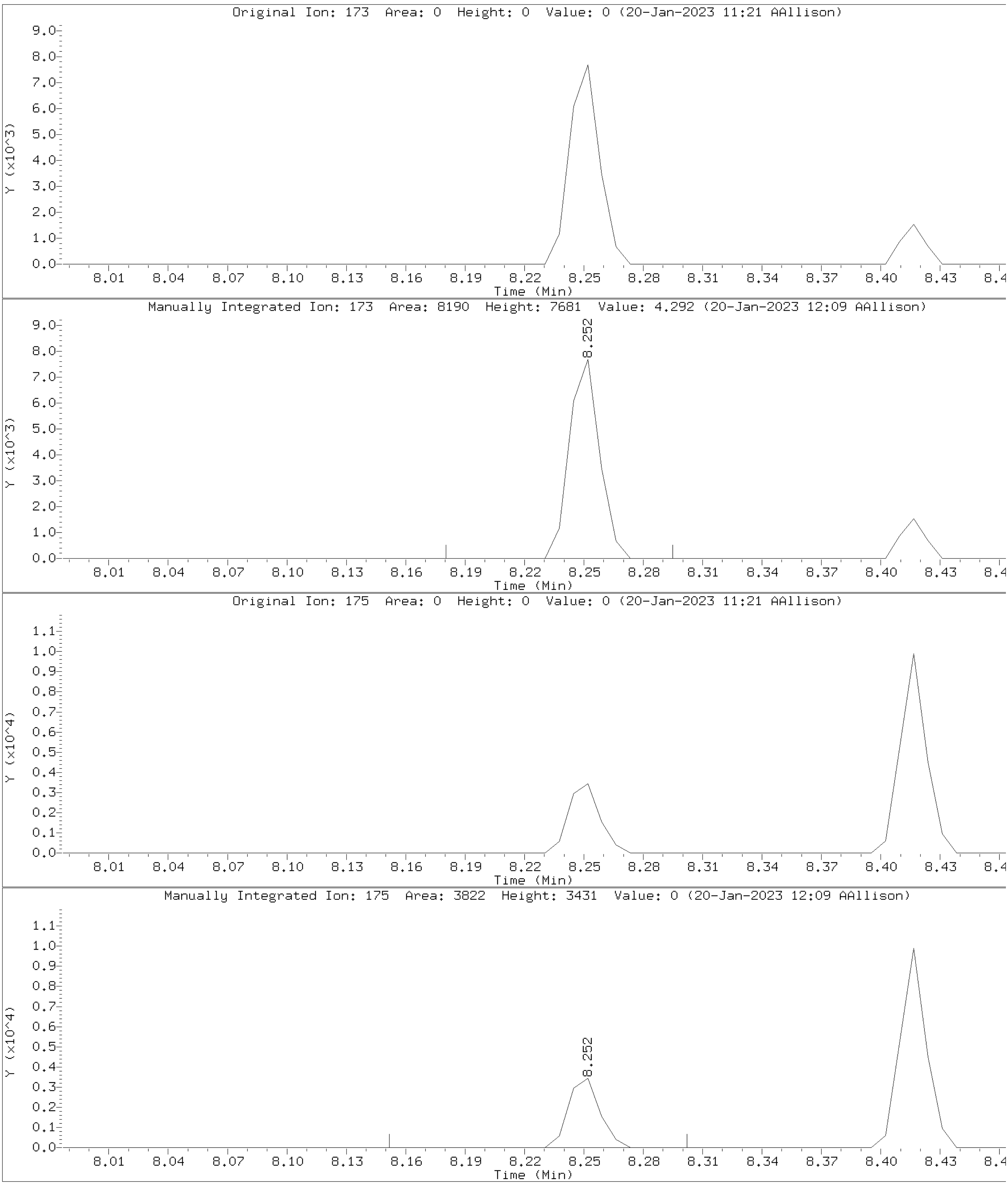
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: Bromoform   Review Code: NI
CAS Number: 75-25-2



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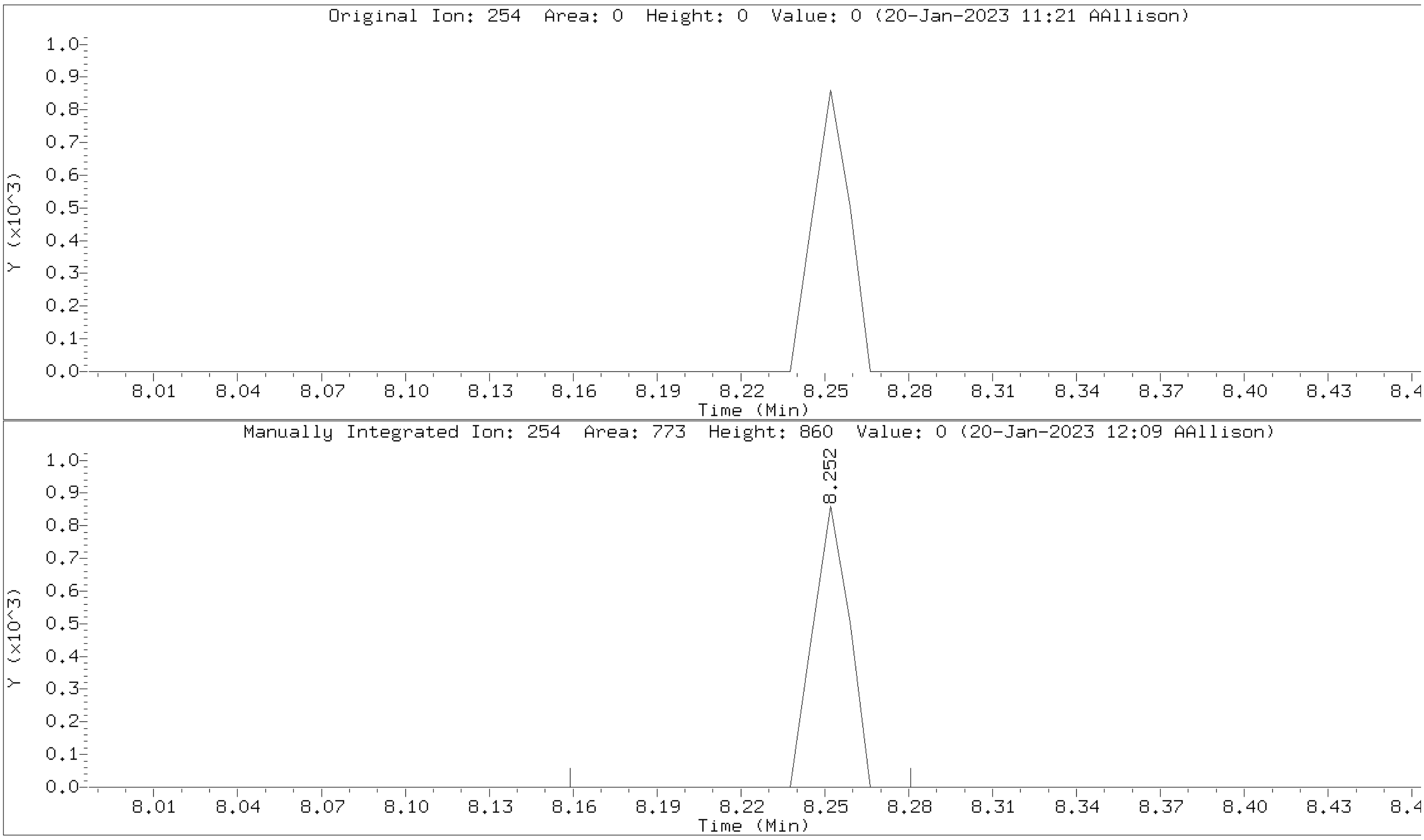
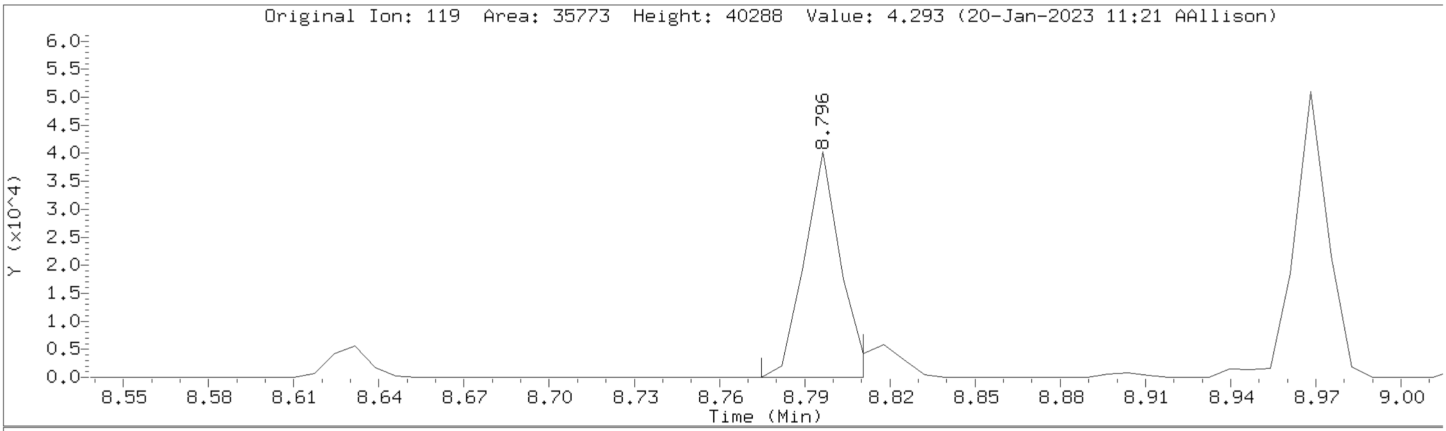
Lab Sample ID: 8260-CAL4



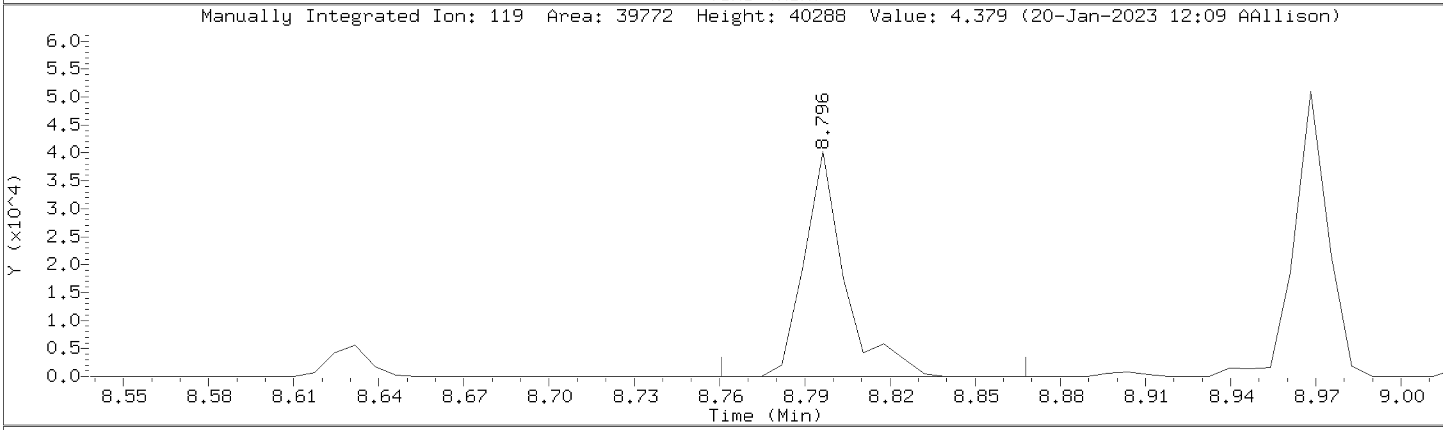
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a07.d
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6

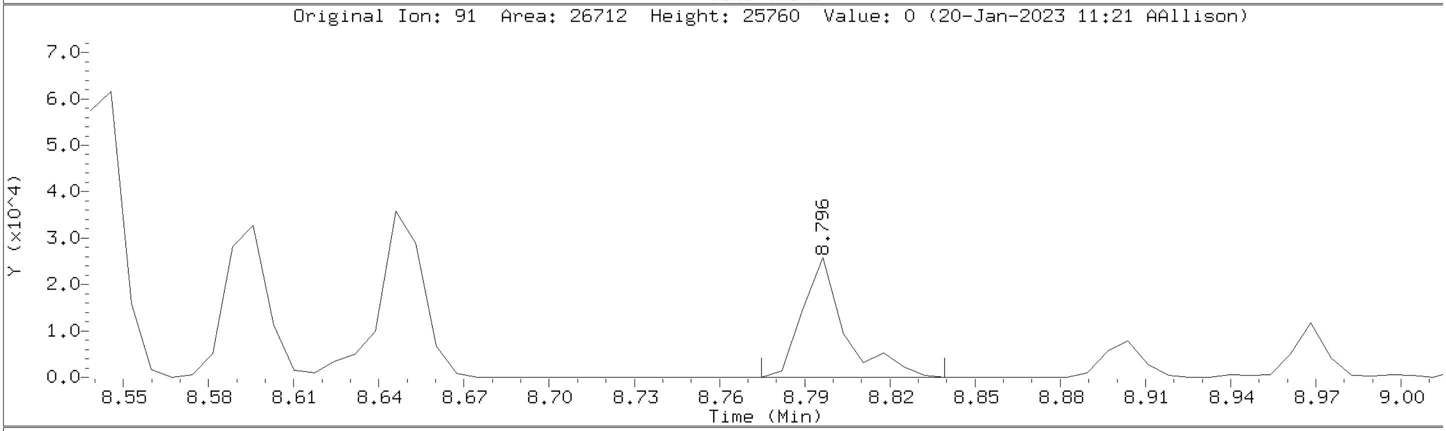
Original Ion: 119 Area: 35773 Height: 40288 Value: 4.293 (20-Jan-2023 11:21 AAllison)



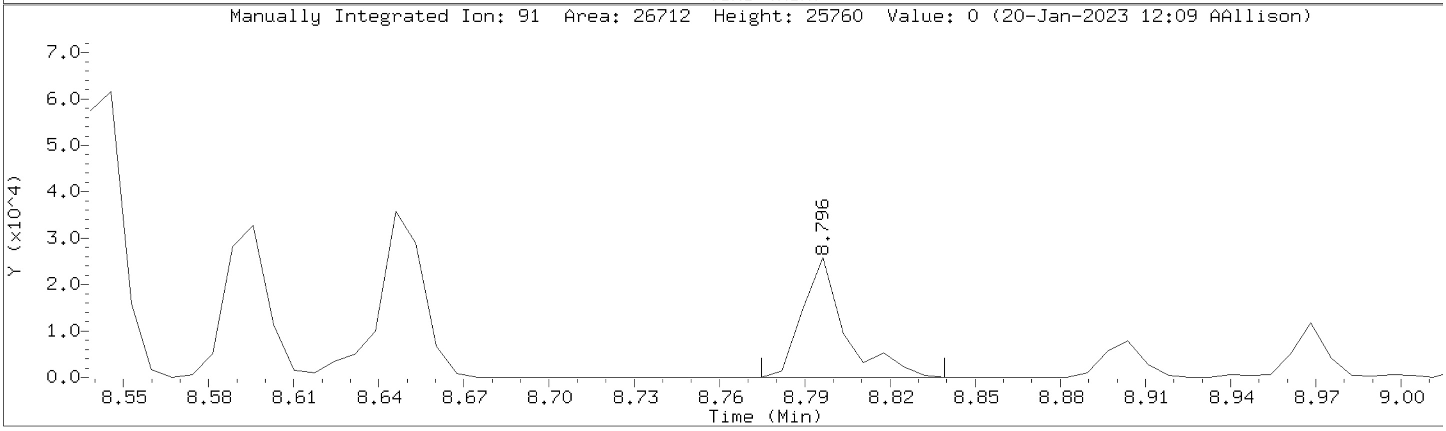
Manually Integrated Ion: 119 Area: 39772 Height: 40288 Value: 4.379 (20-Jan-2023 12:09 AAllison)



Original Ion: 91 Area: 26712 Height: 25760 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 91 Area: 26712 Height: 25760 Value: 0 (20-Jan-2023 12:09 AAllison)



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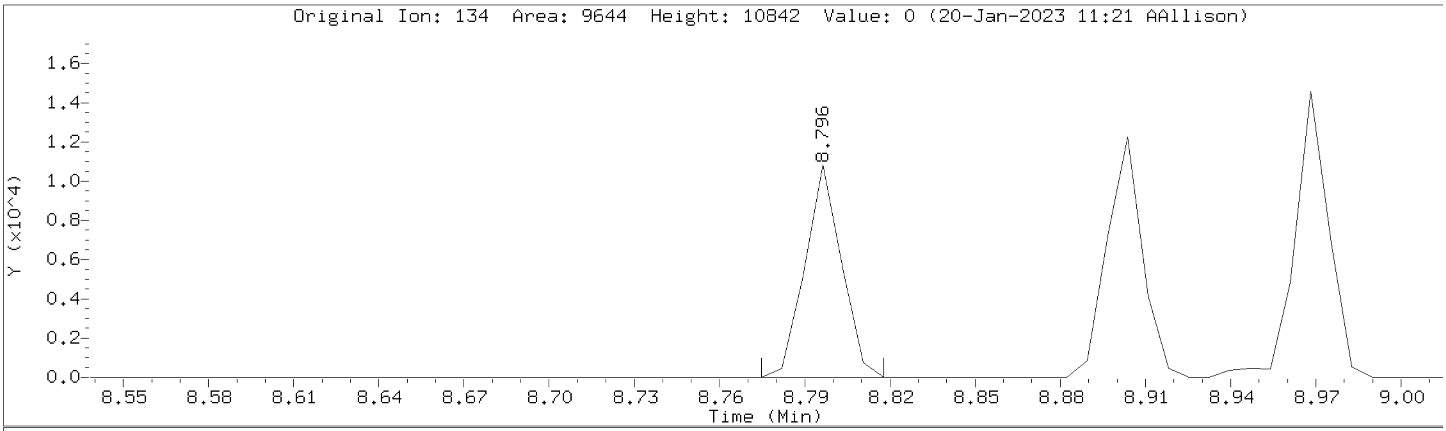
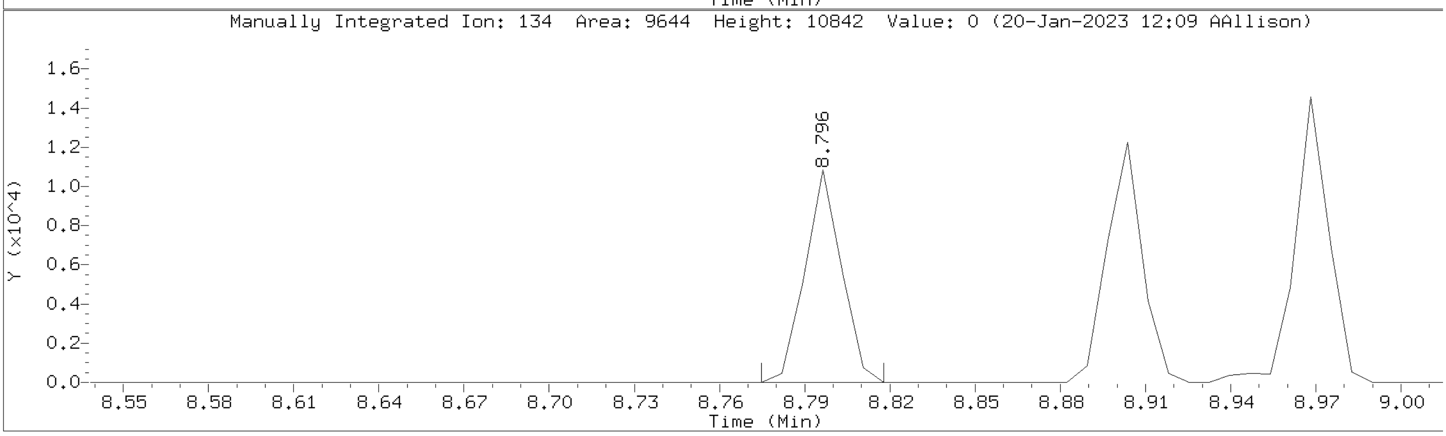
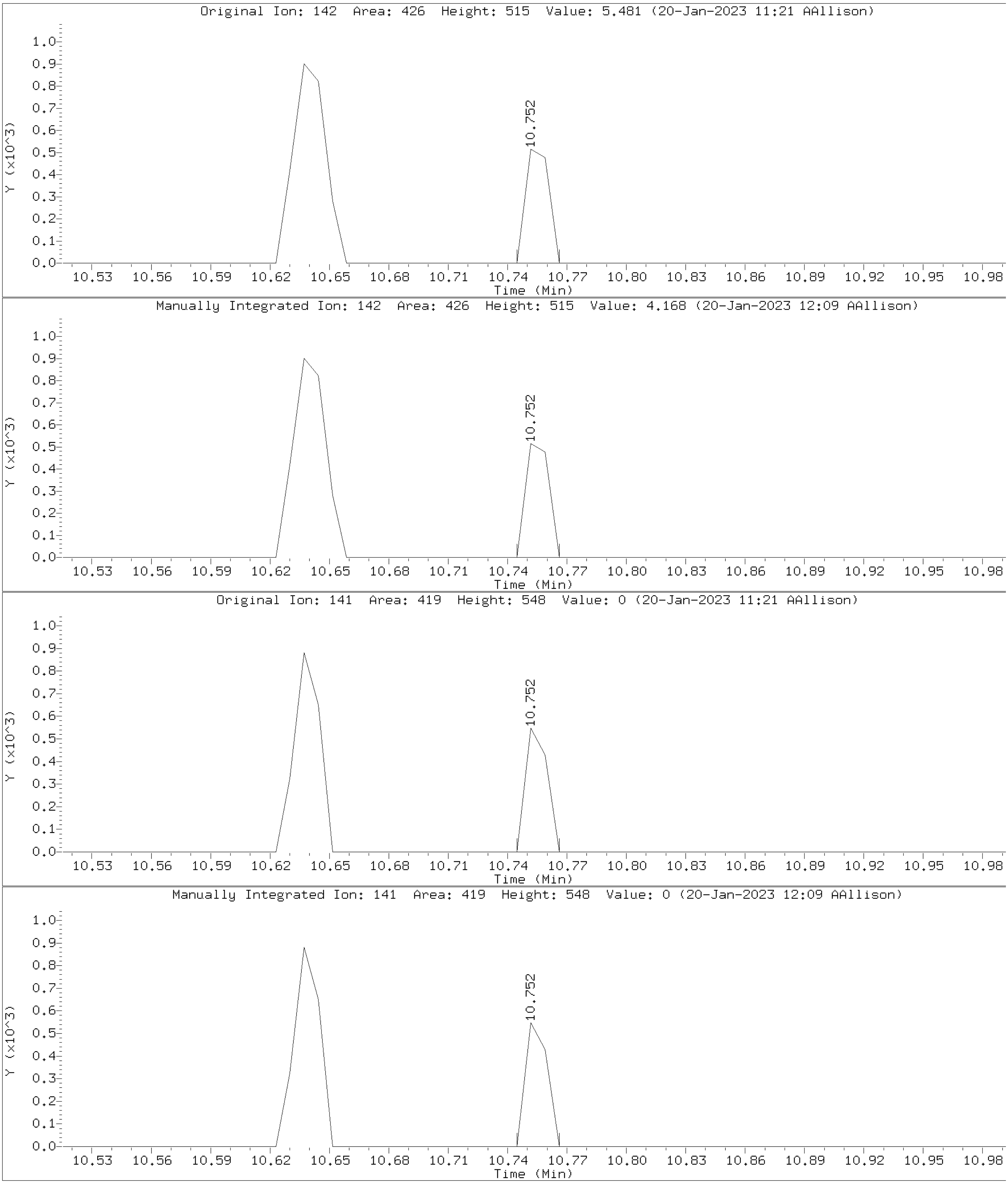
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4





Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a07.d
Injection Date: 19-JAN-2023 16:16
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4

Compound: 1-Methylnaphthalene   Review Code: WP
CAS Number: 90-12-0



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a07.d
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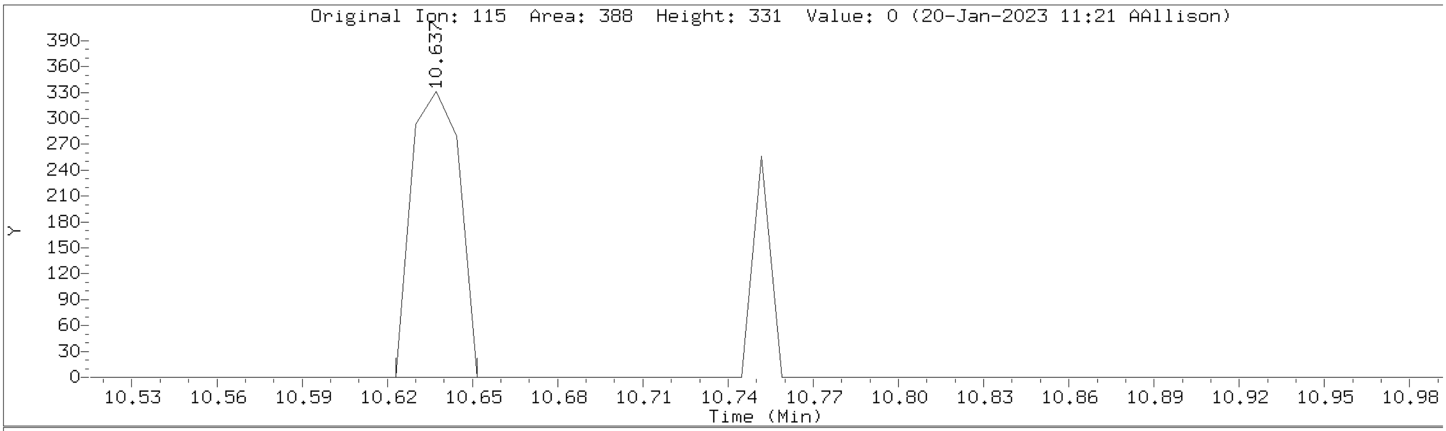
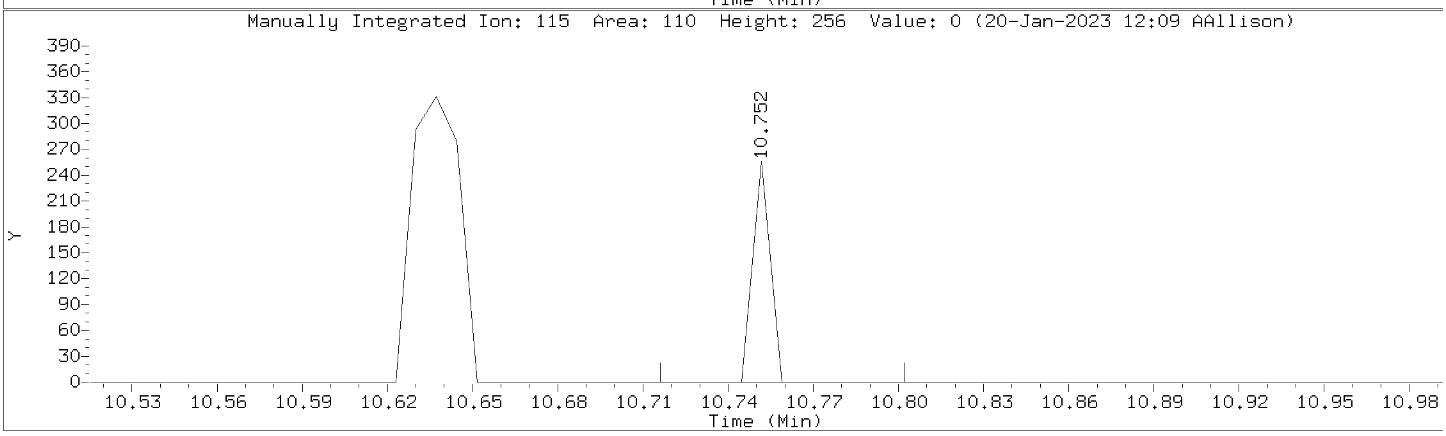
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL4





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a08.d
Lab Smp Id: 8260-CAL5 Client Smp ID: 8260-CAL5
Inj Date : 19-JAN-2023 16:45
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal5,335781:0
Misc Info : 166067
Comment :
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Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.224	1.218	(0.239)	31147	10.0000	10.5(M)	LT
2 Chloromethane	50	1.432	1.397	(0.279)	34458	10.0000	10.2	
3 Vinyl Chloride	62	1.403	1.397	(0.274)	35172	10.0000	12.2(M)	LT
4 Bromomethane	94	1.604	1.597	(0.313)	18574	10.0000	7.91(M)	LT
5 Chloroethane	64	1.661	1.655	(0.324)	20986	10.0000	11.1	
6 Trichlorofluoromethane	101	1.812	1.805	(0.353)	40005	10.0000	12.0	
7 Diethyl ether	74	1.991	1.977	(0.388)	15202	10.0000	8.53	
8 Acrolein	56	2.098	2.085	(0.409)	155696	200.000	217	
9 1,1,2trichlorotrifluoroethane	101	2.148	2.134	(0.419)	23654	10.0000	10.2	
10 1,1-Dichloroethene	96	2.163	2.149	(0.422)	23208	10.0000	9.17	
11 Acetone	43	2.206	2.192	(0.430)	69621	50.0000	48.8	
12 Iodomethane	142	2.284	2.271	(0.446)	26011	10.0000	12.2	
13 Carbon Disulfide	76	2.335	2.321	(0.455)	71994	10.0000	9.35	
14 Acetonitrile	39	2.428	2.407	(0.473)	35825	50.0000	40.3(M)	GT
15 allyl chloride	41	2.428	2.407	(0.473)	67844	10.0000	9.36	
16 Methyl Acetate	43	2.435	2.421	(0.475)	160908	50.0000	47.8	
17 Methylene Chloride	84	2.528	2.507	(0.493)	28877	10.0000	7.23	
18 tert-Butyl Alcohol	59	2.607	2.586	(0.508)	26619	50.0000	45.9	
19 Acrylonitrile	53	2.743	2.722	(0.535)	76544	50.0000	48.4	
20 Methyl-tert-butyl ether	73	2.743	2.722	(0.535)	71941	10.0000	9.43	
21 1,2-Dichloroethene (trans)	96	2.750	2.729	(0.536)	26312	10.0000	8.78	
22 n-Hexane	57	2.972	2.951	(0.580)	43203	10.0000	9.17	
23 1,1-Dichloroethane	63	3.151	3.130	(0.615)	45343	10.0000	9.90	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
24 Vinyl Acetate	43	3.187	3.166	(0.622)	333860	40.0000	43.4	
25 Diisopropyl ether	45	3.187	3.166	(0.622)	93040	10.0000	9.61	
26 chloroprene	53	3.237	3.209	(0.631)	39742	10.0000	10.0(M)	LT
27 Ethyl-tert-butyl ether	59	3.595	3.567	(0.701)	77768	10.0000	9.73	
28 2,2-Dichloropropane	77	3.796	3.768	(0.740)	35032	10.0000	9.50(M)	LT
29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.742)	29617	10.0000	8.71	
30 2-Butanone	43	3.839	3.811	(0.749)	112887	50.0000	47.0	
31 Ethyl Acetate	88	3.903	3.868	(0.761)	8593	50.0000	51.6	
32 Propionitrile	54	3.946	3.911	(0.770)	33043	50.0000	49.2	
33 Methacrylonitrile	41	4.111	4.090	(0.802)	178583	50.0000	46.1	
34 Bromochloromethane	49	4.097	4.075	(0.799)	25105	10.0000	10.3	
35 Tetrahydrofuran	42	4.154	4.133	(0.810)	87846	50.0000	44.9	
36 Chloroform	83	4.197	4.176	(0.818)	43166	10.0000	9.25	
$ 37 Dibromofluoromethane (S)	113	4.390	4.362	(0.856)	116965	50.0000	50.5	
38 1,1,1-Trichloroethane	97	4.398	4.370	(0.858)	39293	10.0000	9.72	
39 Cyclohexane	56	4.441	4.413	(0.866)	49077	10.0000	9.61	
40 Carbon Tetrachloride	117	4.577	4.549	(0.892)	37509	10.0000	10.6	
41 1,1-Dichloropropene	75	4.584	4.563	(0.894)	33028	10.0000	10.1	
42 Isobutyl alcohol	43	4.777	4.749	(0.932)	11921	50.0000	51.2	
43 Benzene	78	4.820	4.799	(0.940)	102655	10.0000	9.73	
44 1,2-Dichloroethane	62	4.863	4.842	(0.948)	32821	10.0000	9.72	
45 2,2,4-Trimethylpentane	57	4.885	4.864	(0.953)	69082	10.0000	9.32	
46 tert-Amylmethyl ether	73	4.949	4.928	(0.965)	77172	10.0000	9.51	
* 47 Fluorobenzene	96	5.128	5.107	(1.000)	456607	50.0000		
48 Trichloroethene	95	5.515	5.494	(1.075)	26334	10.0000	9.79	
49 Methylcyclohexane	55	5.694	5.673	(1.110)	37578	10.0000	9.04	
50 1,2-Dichloropropane	63	5.766	5.745	(1.124)	27393	10.0000	9.82	
51 Dibromomethane	93	5.880	5.867	(1.147)	16198	10.0000	9.64	
52 1,4-Dioxane	88	5.916	5.902	(1.154)	3436	200.000	211	
53 Methyl methacrylate	69	5.895	5.881	(1.149)	24110	10.0000	9.53(M)	GT
54 Bromodichloromethane	83	6.052	6.031	(1.180)	32599	10.0000	9.79	
55 2-Chloroethyl vinyl ether	63	6.367	6.347	(0.822)	98319	50.0000	48.7	
56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	40528	10.0000	9.62	
57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	239702	50.0000	49.2	
$ 58 Toluene-d8	98	6.711	6.698	(0.867)	434129	50.0000	49.9	
59 Toluene	91	6.761	6.748	(0.873)	117202	10.0000	9.48	
60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	37290	10.0000	9.48	
61 Ethyl Methacrylate	69	7.026	7.020	(0.907)	39172	10.0000	9.91	
62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	19454	10.0000	9.78	
63 Tetrachloroethene	166	7.177	7.163	(0.927)	29902	10.0000	10.4	
64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	38759	10.0000	9.86	
65 2-Hexanone	43	7.284	7.271	(0.941)	186533	50.0000	47.4	
66 Dibromochloromethane	129	7.370	7.364	(0.952)	27225	10.0000	10.1	
67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	25258	10.0000	9.85	
* 68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	327633	50.0000		
69 Chlorobenzene	112	7.757	7.751	(1.002)	72968	10.0000	9.90	
70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	26541	10.0000	10.2	
71 Ethylbenzene	106	7.821	7.815	(1.010)	41391	10.0000	9.93	
72 m&p-Xylene	106	7.893	7.887	(1.019)	50778	10.0000	10.1	
73 o-Xylene	106	8.122	8.116	(1.049)	46831	10.0000	9.85	
74 Styrene	104	8.137	8.122	(1.051)	78575	10.0000	9.58	
75 Bromoform	173	8.251	8.238	(0.917)	19526	10.0000	9.85	
76 Isopropylbenzene	105	8.323	8.316	(1.075)	122801	10.0000	9.86	
$ 77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	138808	50.0000	50.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
=========================	====	====	========	========	========	=======	=======	========
78 Bromobenzene	77	8.495	8.488	(1.097)	40979	10.0000	9.66	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	34502	10.0000	9.34	
80 1,2,3-Trichloropropane	110	8.523	8.516	(0.947)	11381	10.0000	9.60	
81 trans-1,4-Dichloro-2-butene	53	8.523	8.516	(1.101)	13083	10.0000	9.75	
82 n-Propylbenzene	91	8.538	8.538	(0.949)	143226	10.0000	9.44	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	75762	10.0000	9.32	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	93529	10.0000	9.64	
85 4-Chlorotoluene	126	8.645	8.638	(0.961)	29251	10.0000	9.76	
86 tert-Butylbenzene	119	8.796	8.789	(0.978)	91924	10.0000	9.76(M)	LT
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.980)	92019	10.0000	9.49	
88 sec-Butylbenzene	105	8.903	8.897	(0.990)	112728	10.0000	9.61	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	46927	10.0000	9.40	
90 p-Isopropyltoluene	119	8.968	8.961	(0.997)	94921	10.0000	9.88	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	154672	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.002)	47689	10.0000	9.28	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	86376	10.0000	9.62	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	77539	10.0000	9.53	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.022)	41599	10.0000	9.74	
96 Hexachloroethane	201	9.311	9.312	(1.035)	12073	10.0000	10.3	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	6500	10.0000	9.48	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	13924	10.0000	9.75	
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	6567	10.0000	10.1	
100 Naphthalene	128	10.056	10.064	(1.118)	43201	10.0000	9.61	
101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.131)	7546	10.0000	9.23	
102 2,methyl-naphthalene	142	10.637	10.644	(1.182)	2148	10.0000	10.0	
103 1-Methylnaphthalene	142	10.751	10.766	(1.195)	1375	10.0000	11.8	

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).
:
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\50mvda.i\a011923cal.b\a08.d

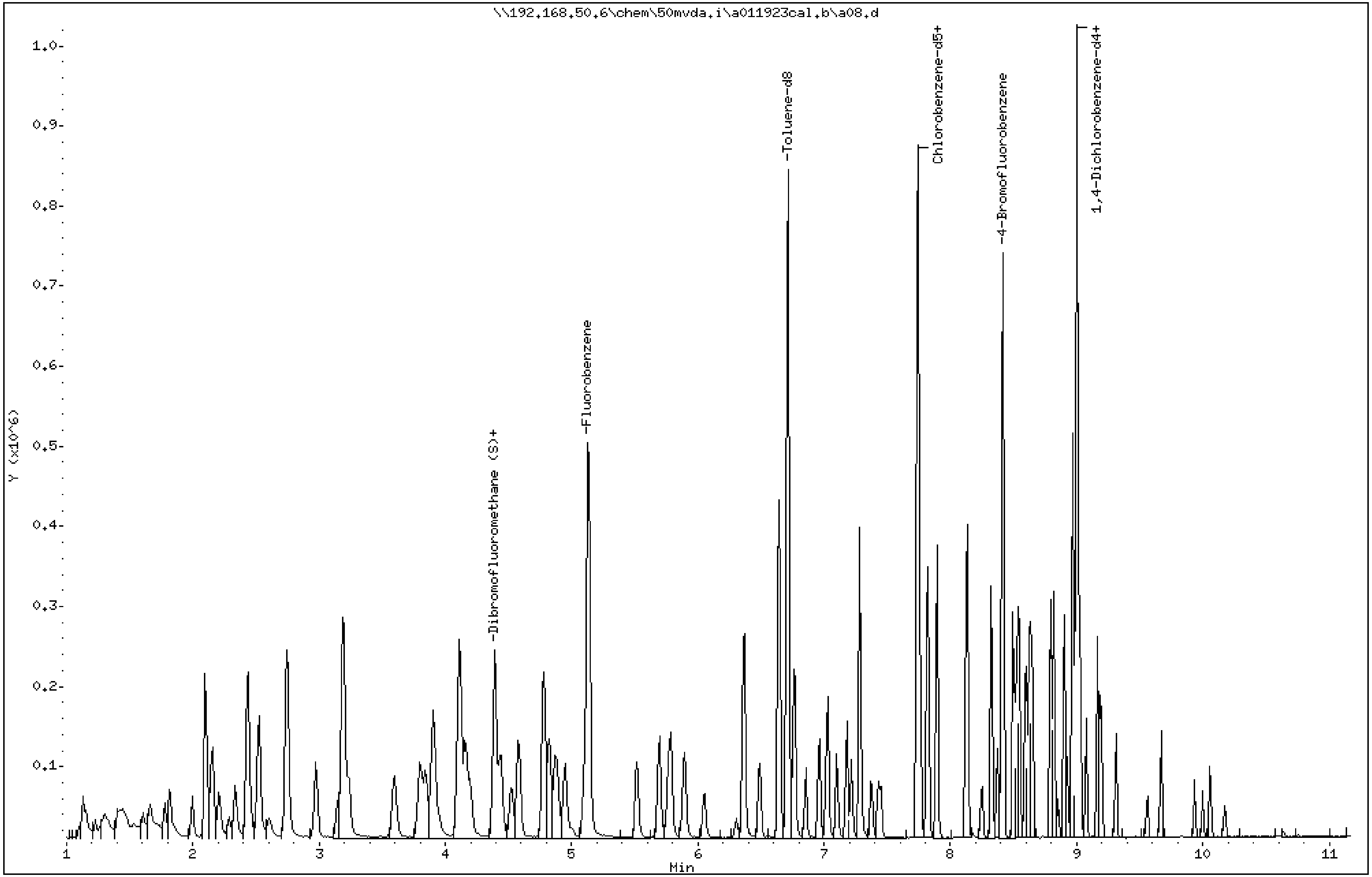
Date : 19-JAN-2023 16:45

Client ID: 8260-CAL5 | Instrument: 50mvda.i

Sample Info: 8260-CAL5,335781:0

Purge Volume: 5.0 | Operator: ala

Column phase: DB-624 | Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a08.d

Date : 19-JAN-2023 16:45

Client ID: 8260-CAL5

Instrument: 50mvda.i

Sample Info: 8260-CAL5,335781:0

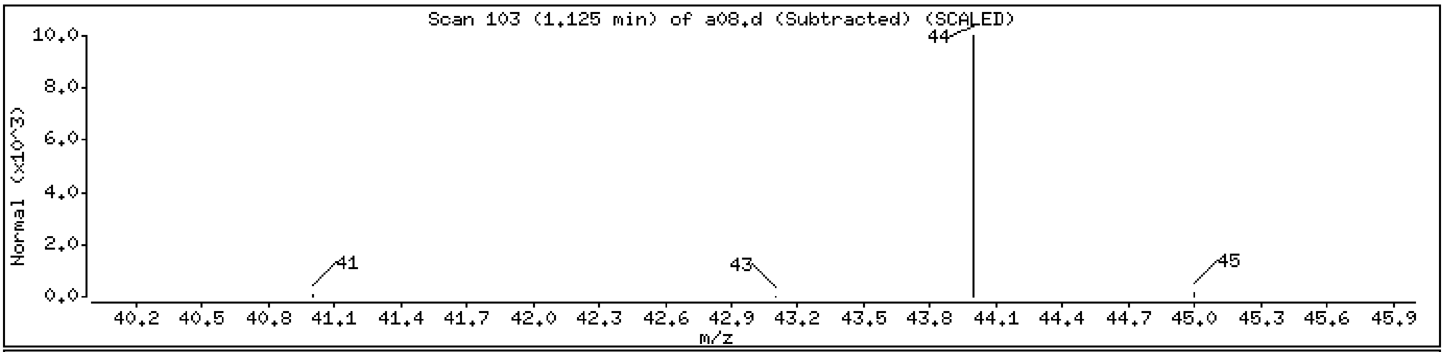
Purge Volume: 5.0

Operator: ala

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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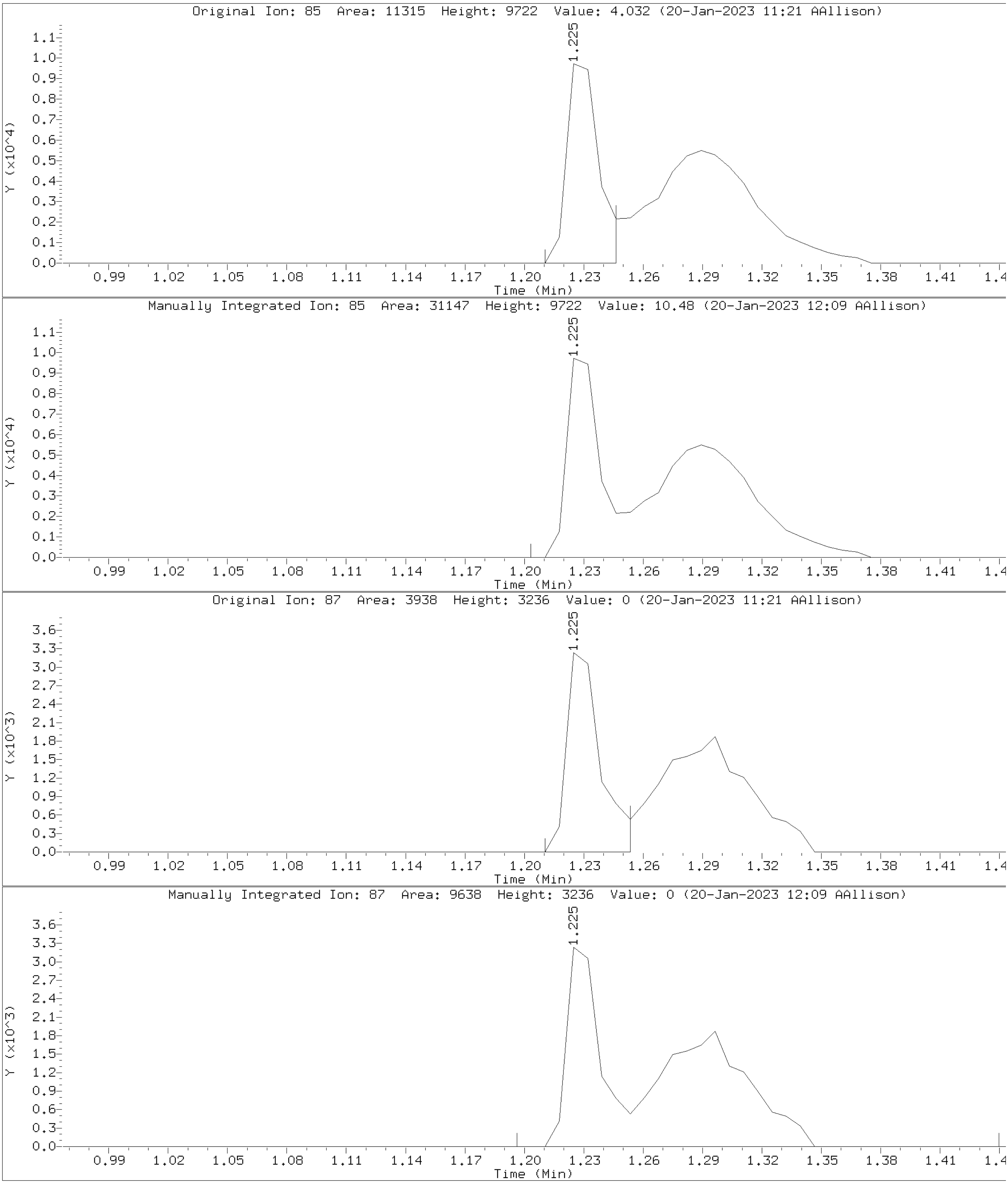
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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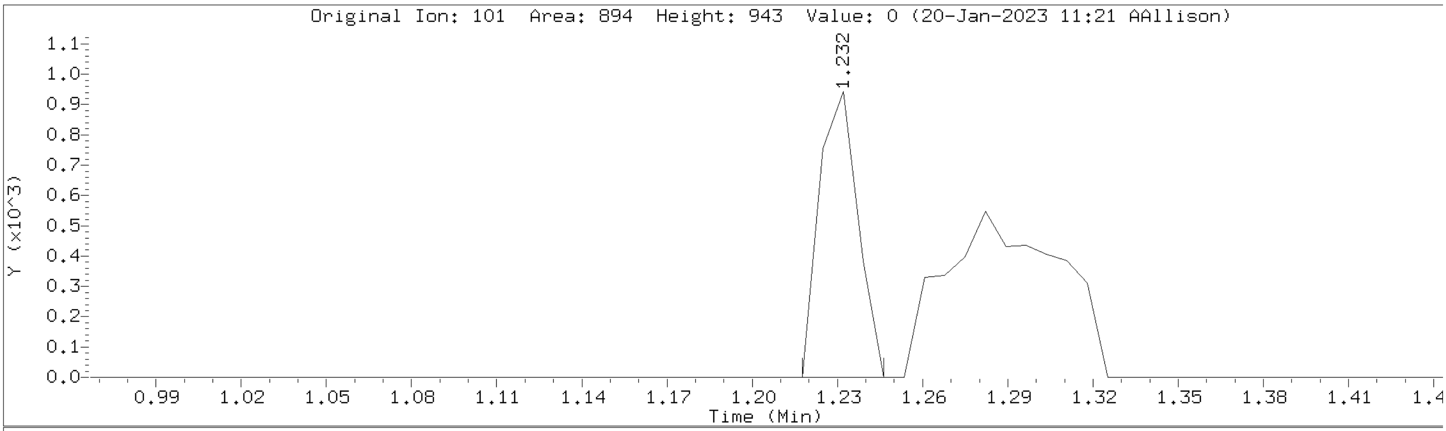
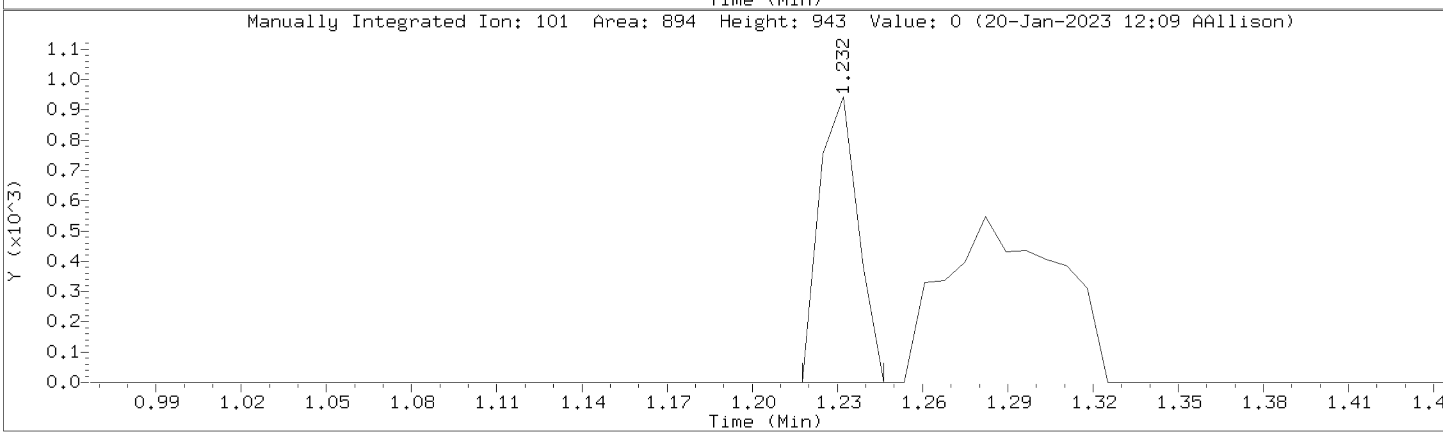
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5





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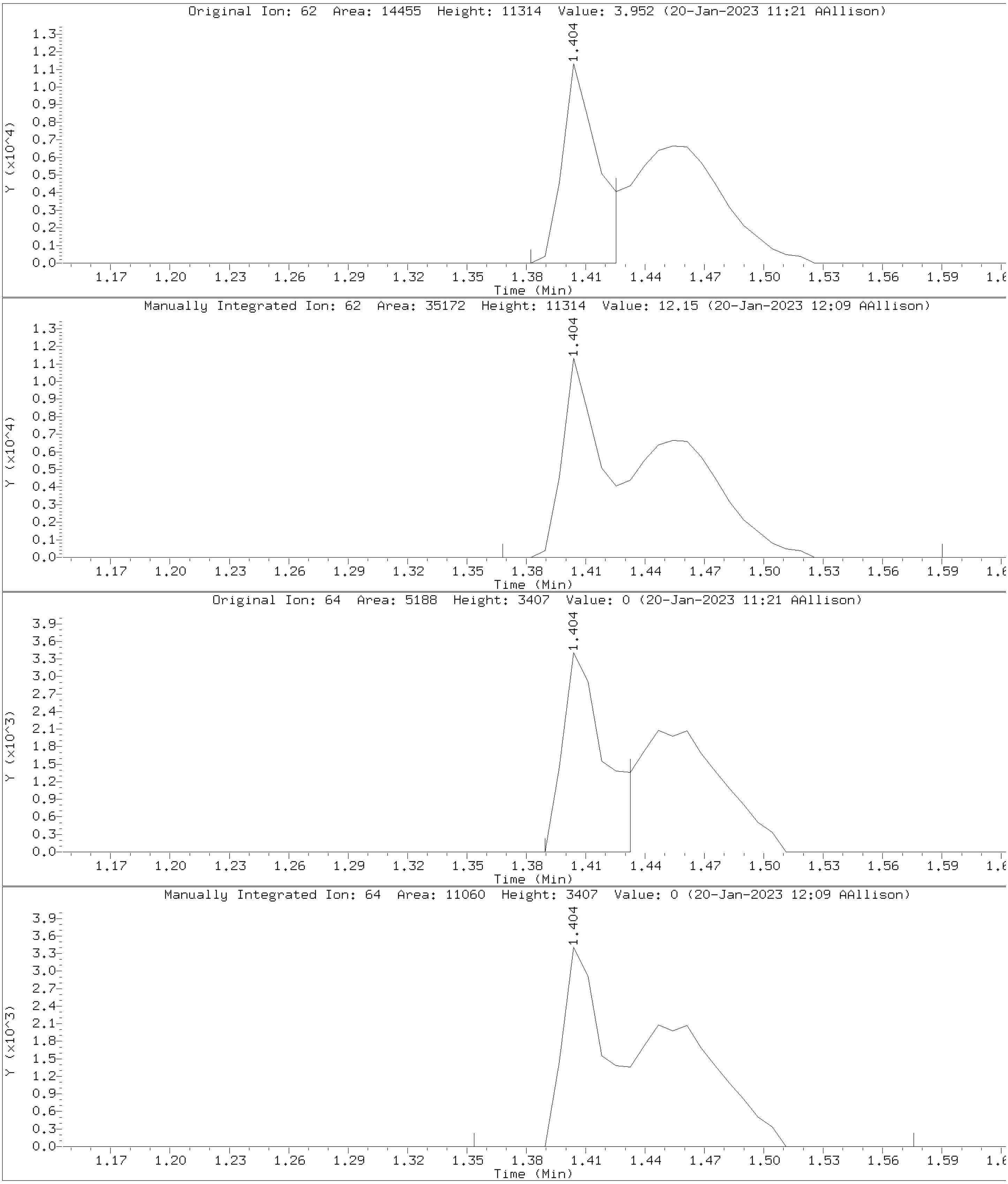
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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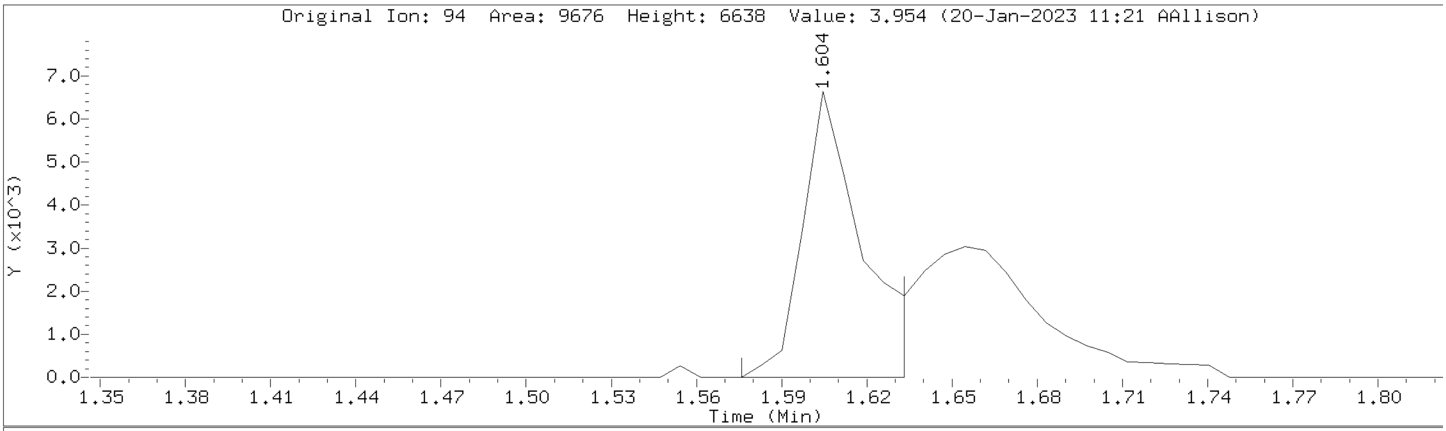
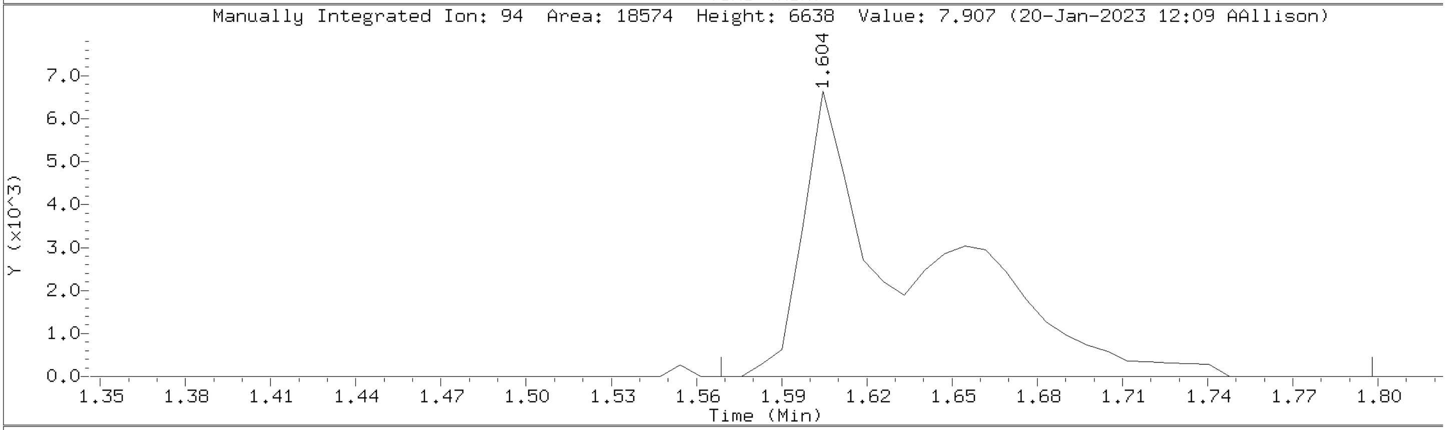
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

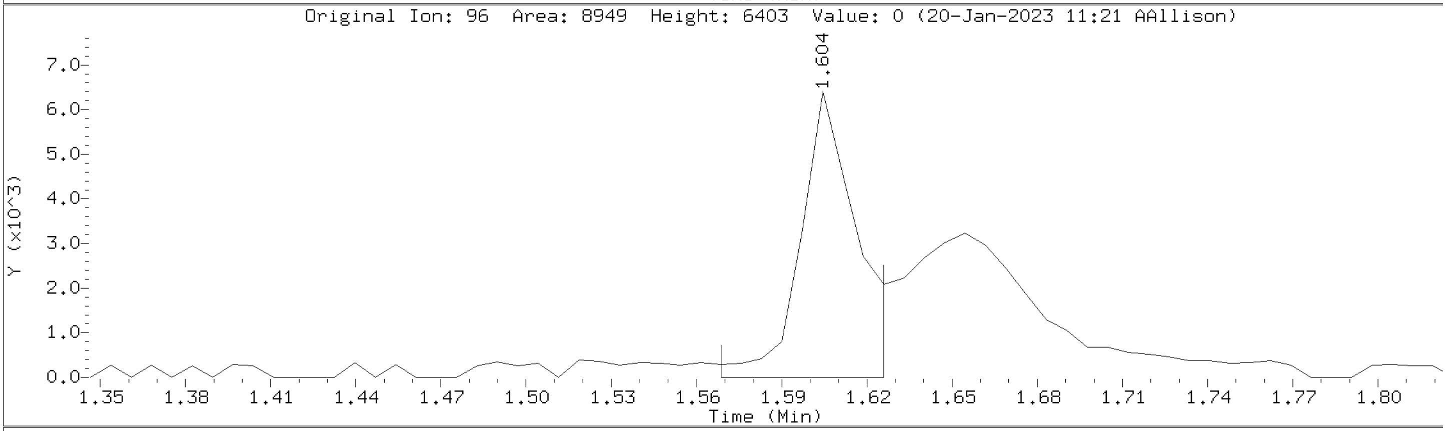
Original Ion: 94 Area: 9676 Height: 6638 Value: 3.954 (20-Jan-2023 11:21 AAllison)



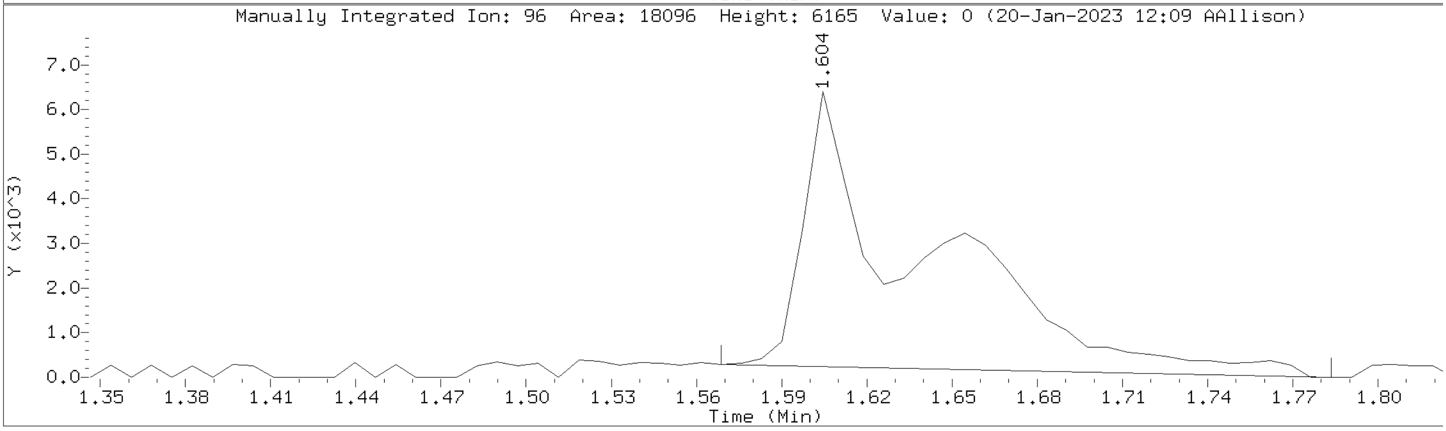
Manually Integrated Ion: 94 Area: 18574 Height: 6638 Value: 7.907 (20-Jan-2023 12:09 AAllison)



Original Ion: 96 Area: 8949 Height: 6403 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 96 Area: 18096 Height: 6165 Value: 0 (20-Jan-2023 12:09 AAllison)



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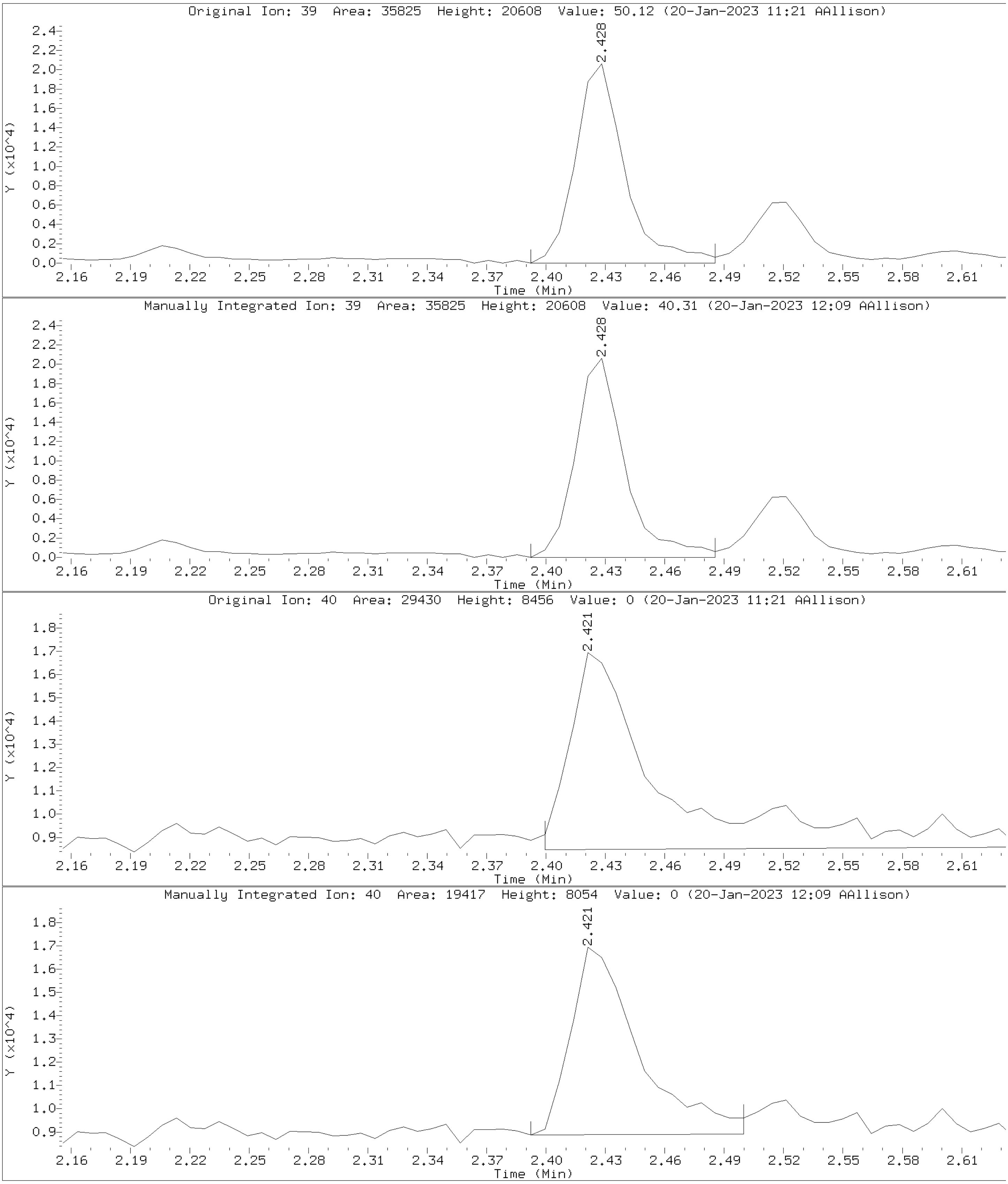
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8



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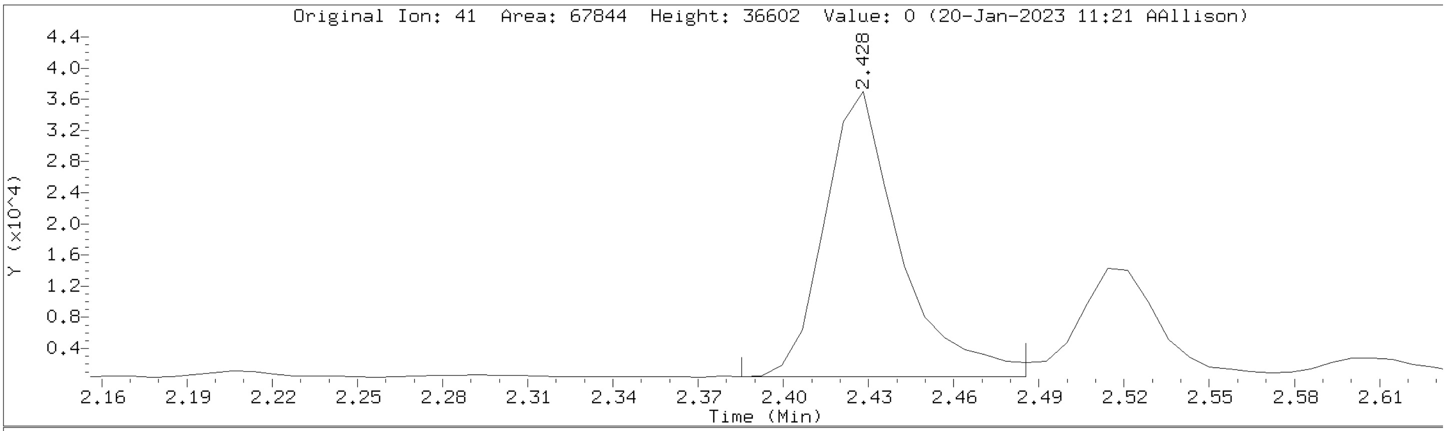
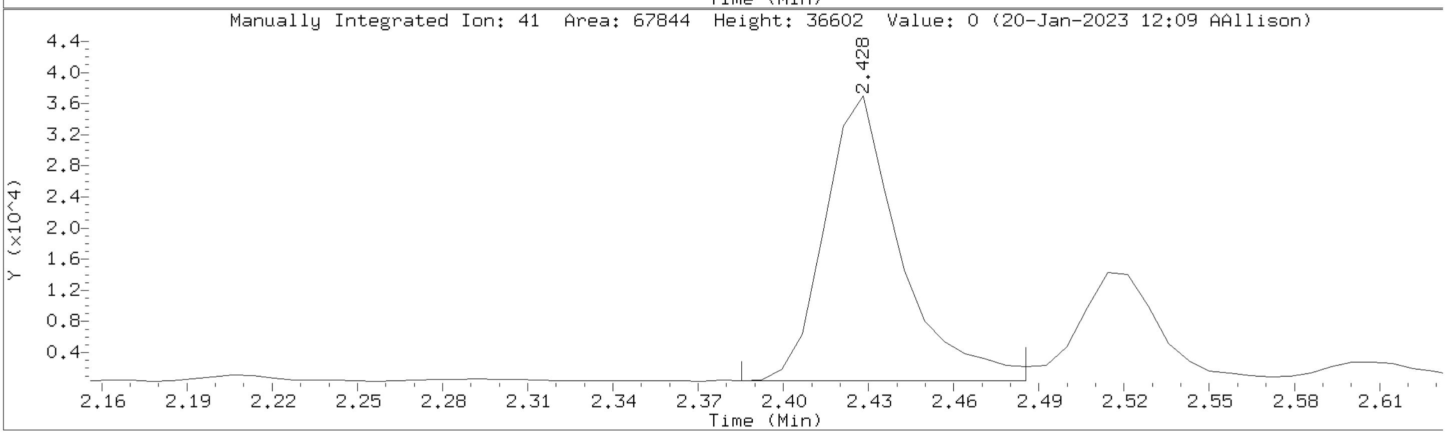
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5





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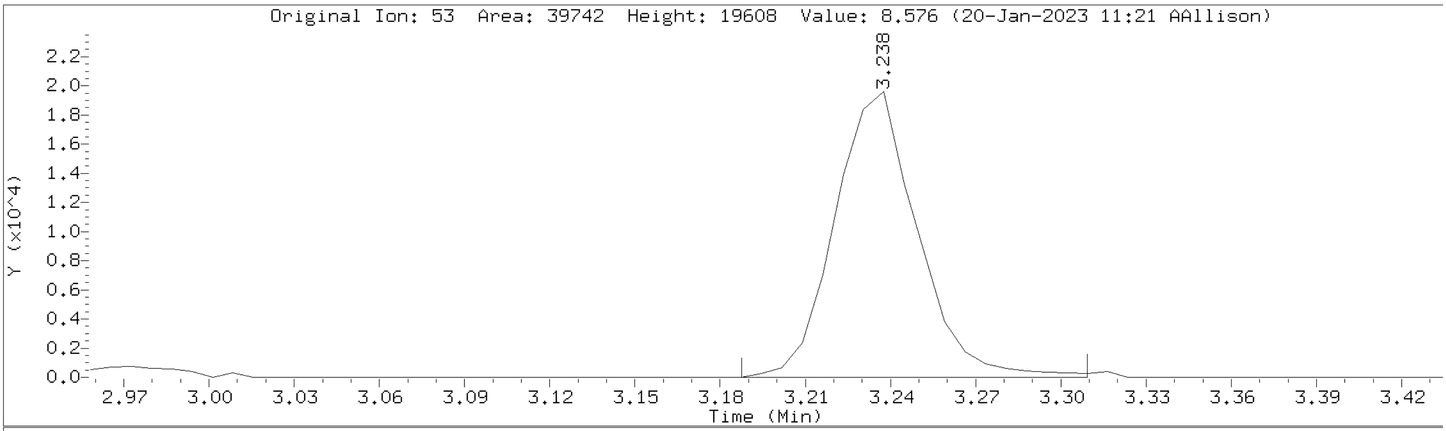
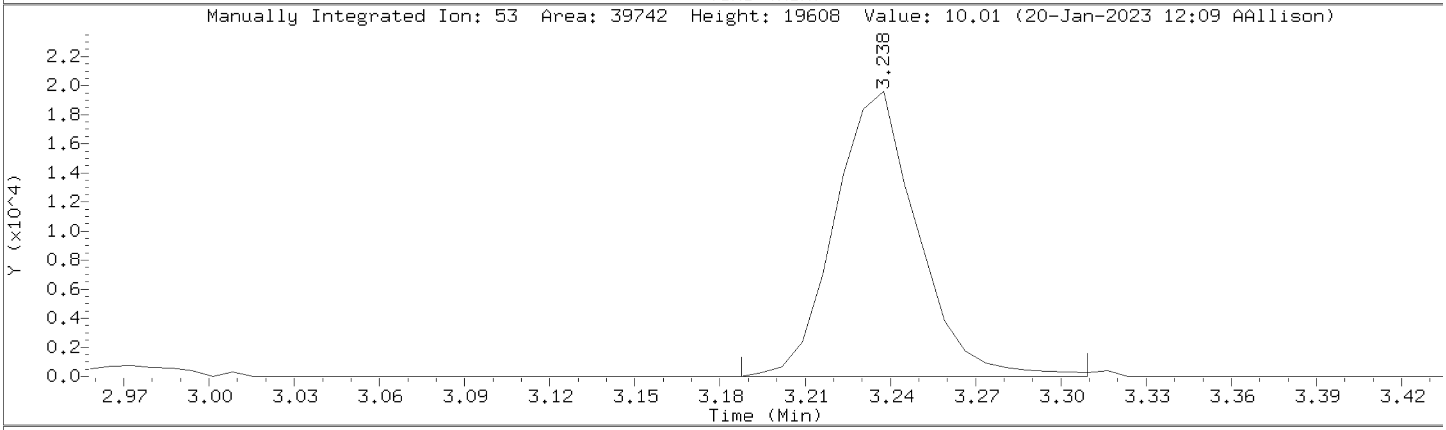
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: chloroprene   Review Code: LT
CAS Number: 126-99-8

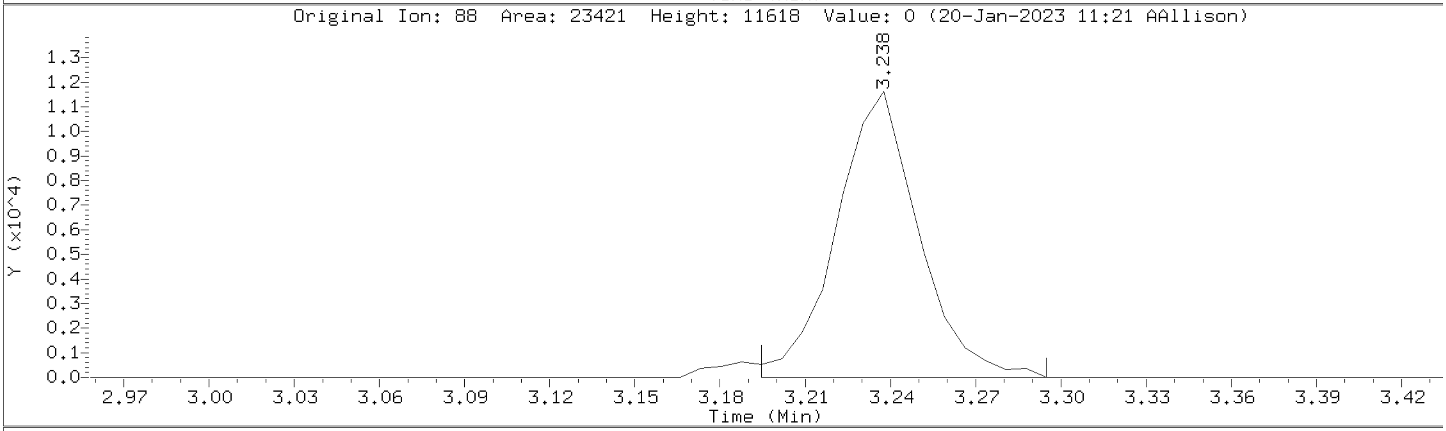
Original Ion: 53 Area: 39742 Height: 19608 Value: 8.576 (20-Jan-2023 11:21 AAllison)



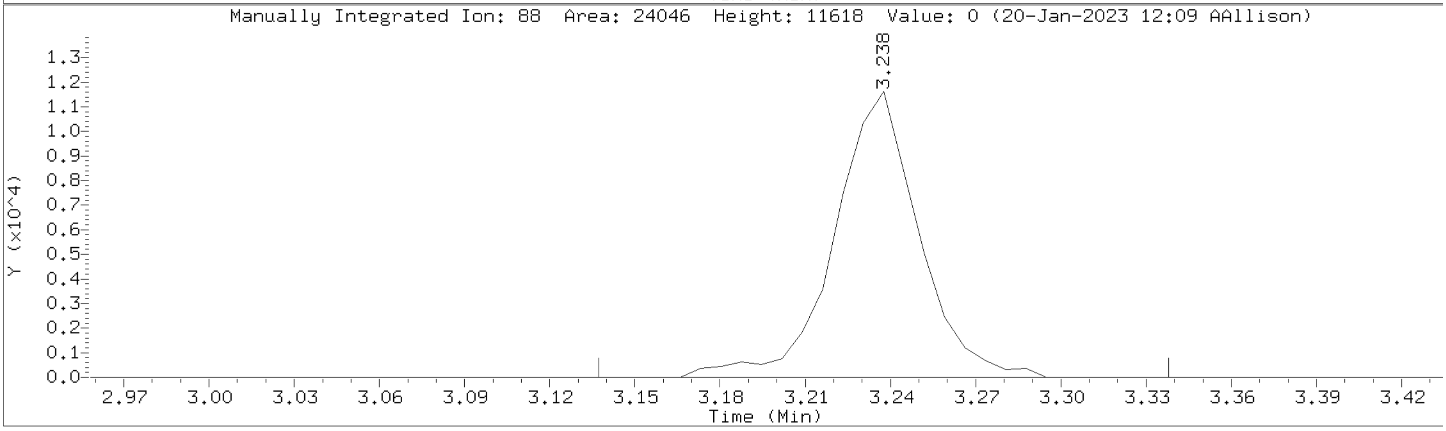
Manually Integrated Ion: 53 Area: 39742 Height: 19608 Value: 10.01 (20-Jan-2023 12:09 AAllison)



Original Ion: 88 Area: 23421 Height: 11618 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 88 Area: 24046 Height: 11618 Value: 0 (20-Jan-2023 12:09 AAllison)



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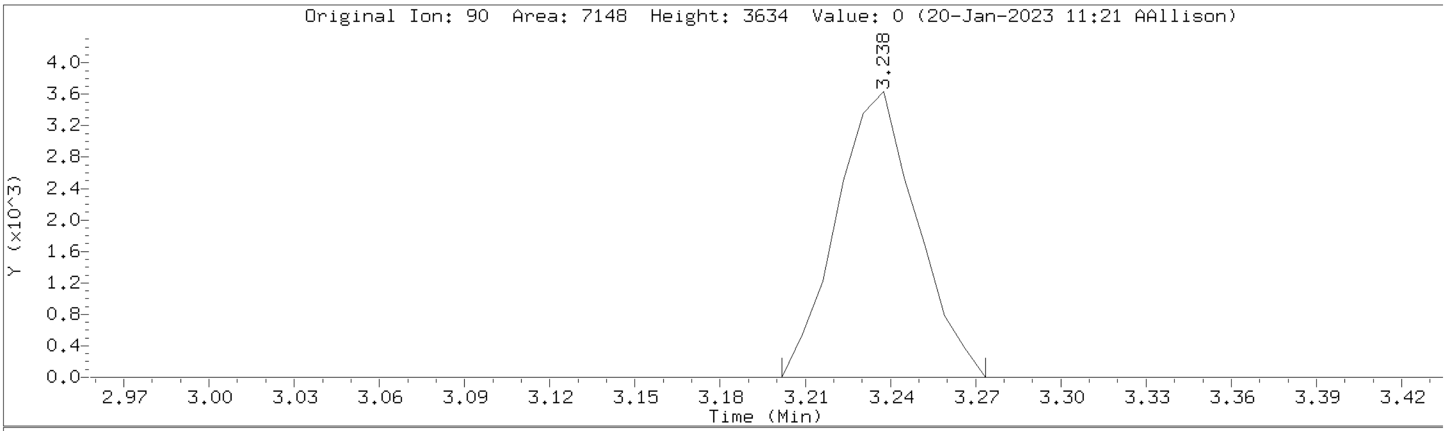
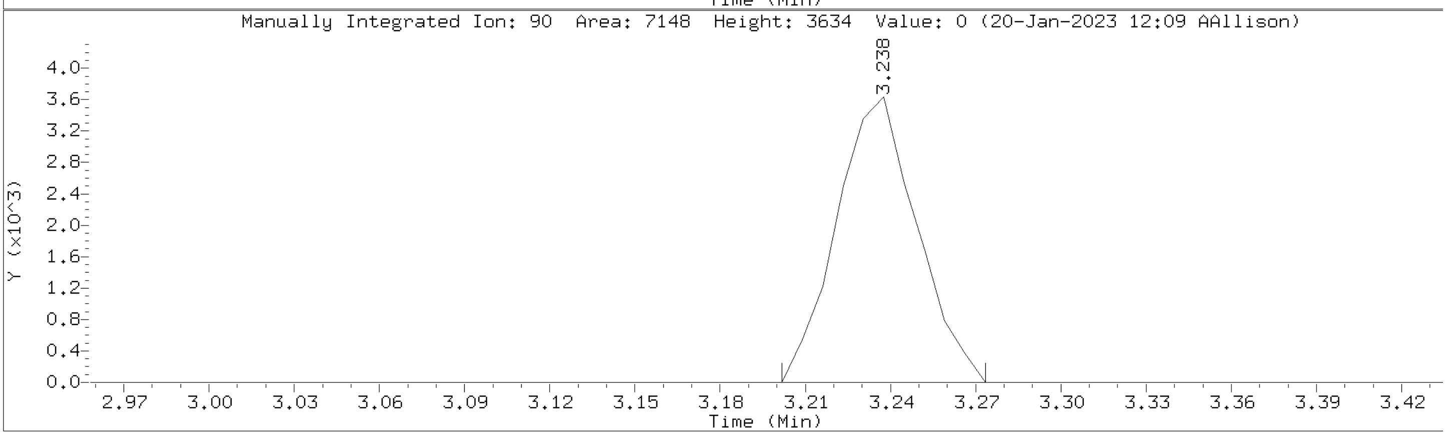
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5





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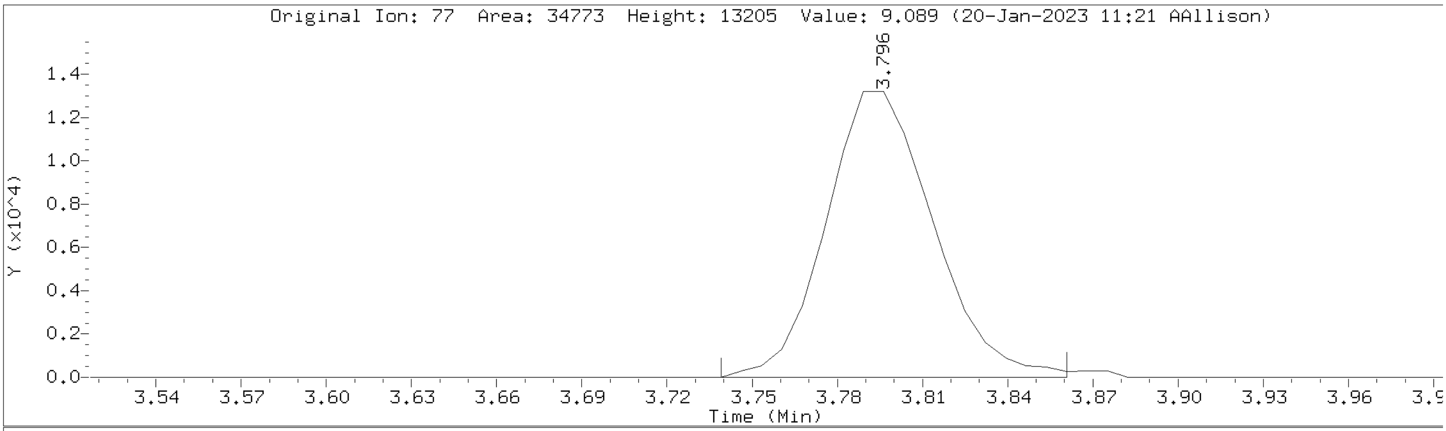
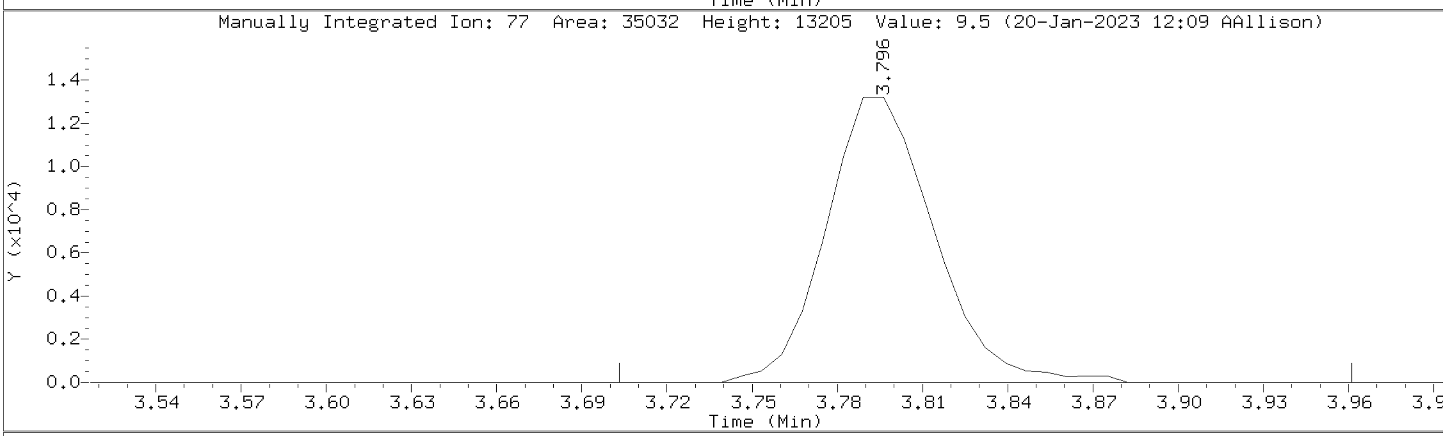
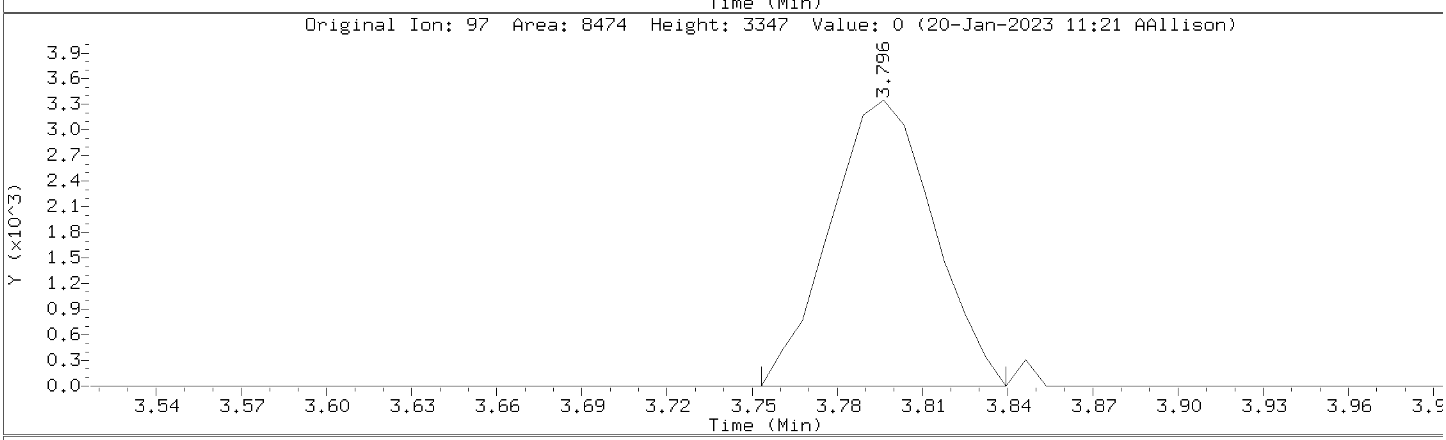
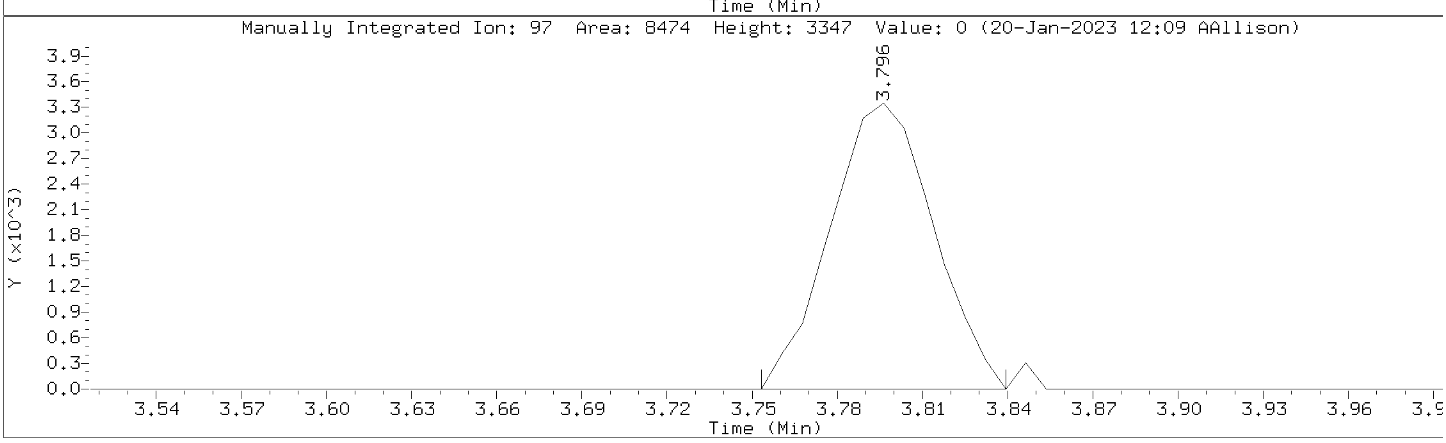
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: 2,2-Dichloropropane   Review Code: LT
CAS Number: 594-20-7









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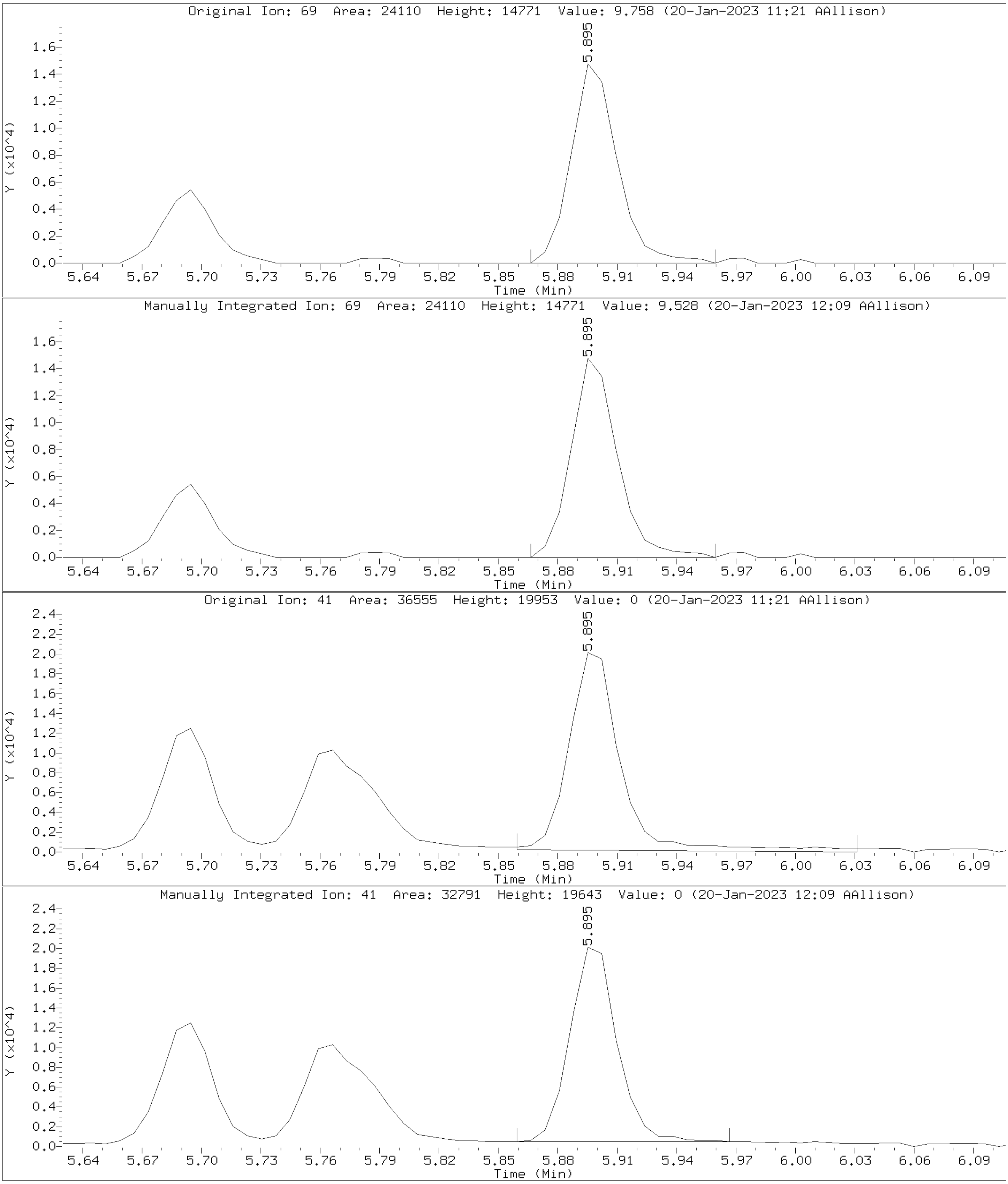
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: Methyl methacrylate   Review Code: GT
CAS Number: 80-62-6



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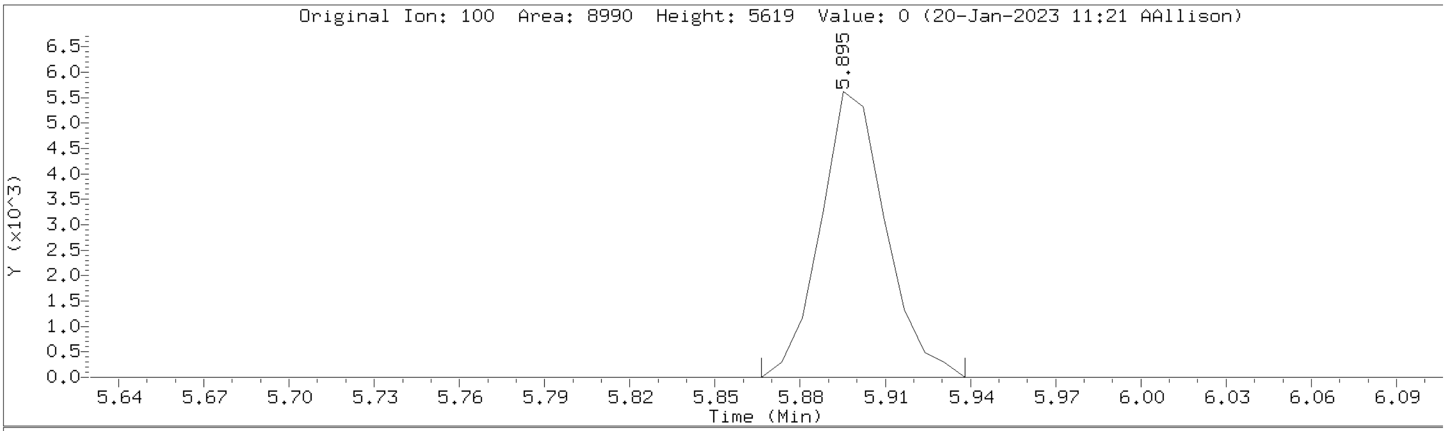
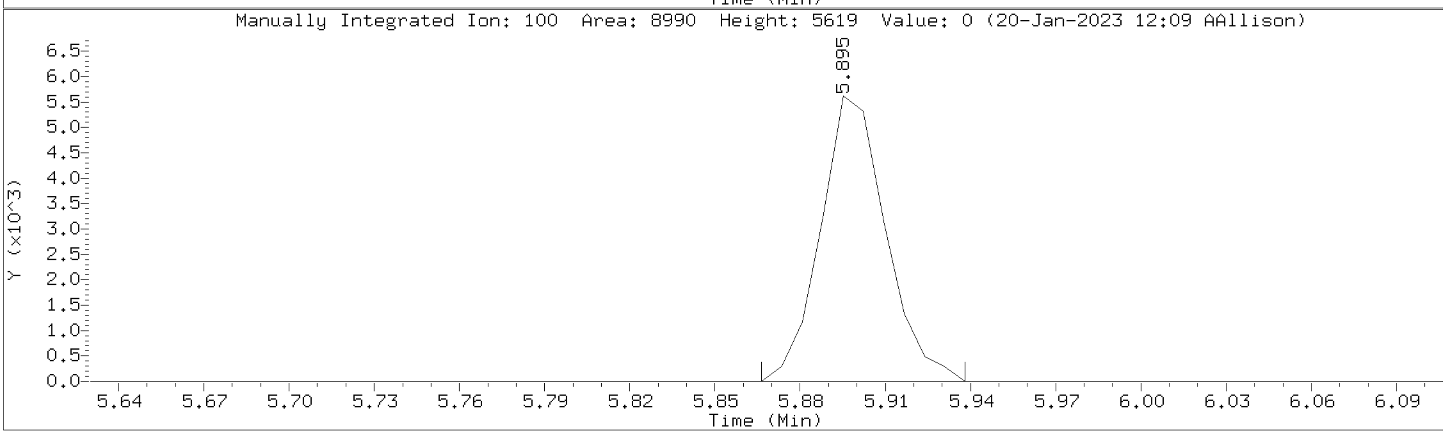
Lab Sample ID: 8260-CAL5





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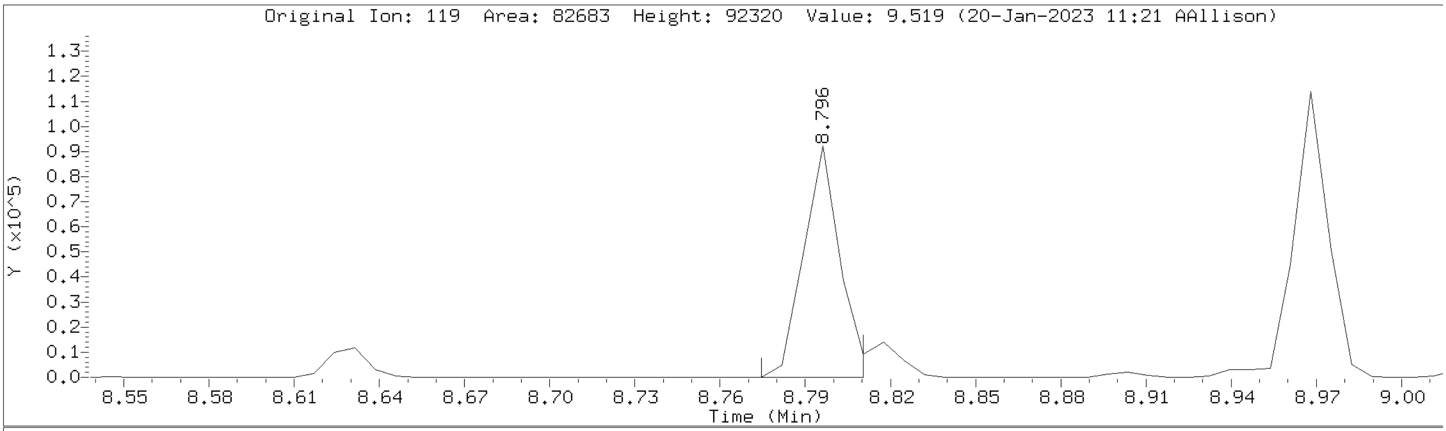
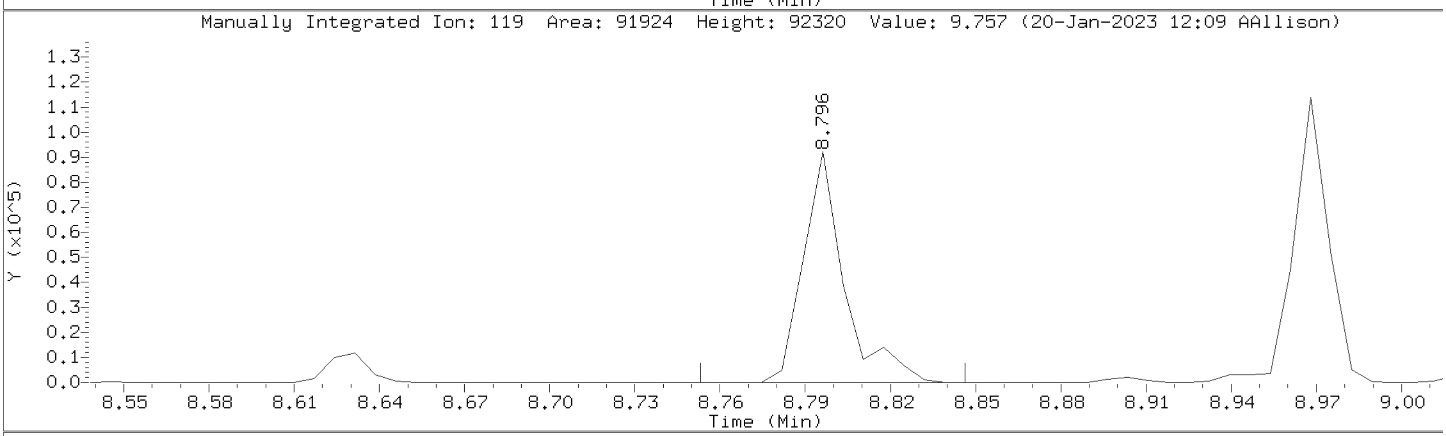
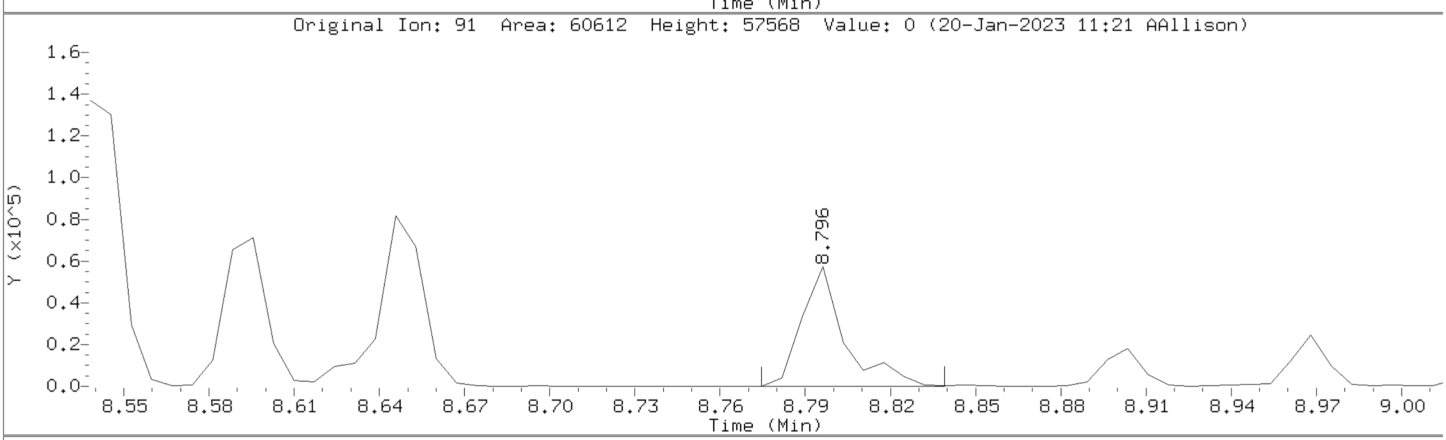
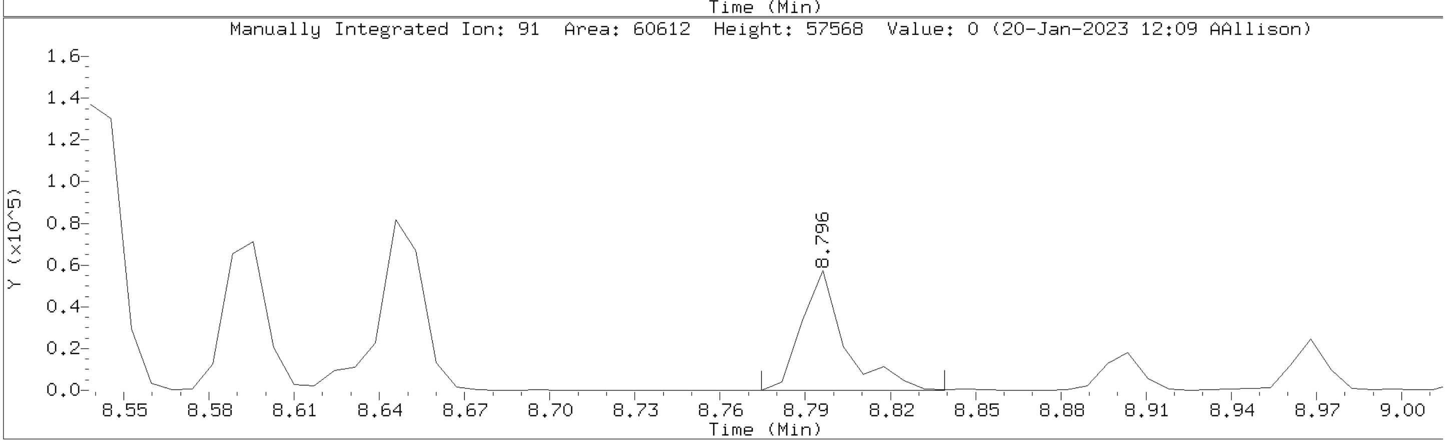
Injection Date: 19-JAN-2023 16:45
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6









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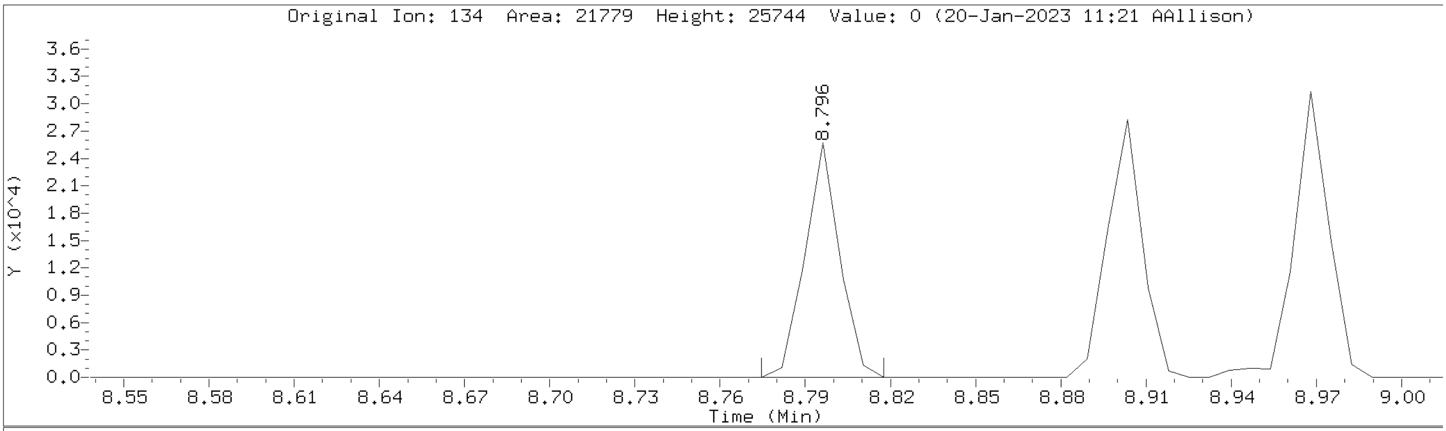
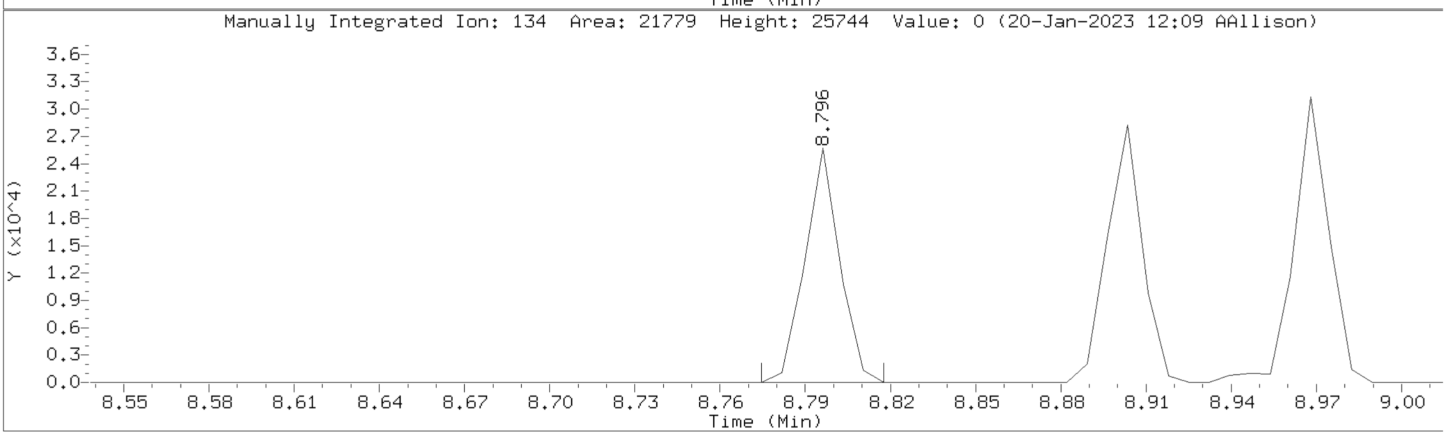
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL5





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a10.d
Lab Smp Id: 8260-CAL7 Client Smp ID: 8260-CAL7
Inj Date : 19-JAN-2023 17:44
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal7,335783:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.224	1.218	(0.239)	149520	50.0000	47.6(M)	LT
2 Chloromethane	50	1.432	1.397	(0.279)	152423	50.0000	42.7	
3 Vinyl Chloride	62	1.404	1.397	(0.274)	166156	50.0000	54.4(M)	LT
4 Bromomethane	94	1.597	1.597	(0.311)	84592	50.0000	34.1(M)	LT
5 Chloroethane	64	1.661	1.655	(0.324)	92393	50.0000	46.3	
6 Trichlorofluoromethane	101	1.812	1.805	(0.353)	201289	50.0000	57.4	
7 Diethyl ether	74	1.991	1.977	(0.388)	77286	50.0000	41.1	
8 Acrolein	56	2.098	2.085	(0.409)	746758	1000.00	985	
9 1,1,2trichlorotrifluoroethane	101	2.141	2.134	(0.418)	141874	50.0000	57.8	
10 1,1-Dichloroethene	96	2.156	2.149	(0.420)	129106	50.0000	48.3	
11 Acetone	43	2.206	2.192	(0.430)	357315	250.000	237	
12 Iodomethane	142	2.285	2.271	(0.446)	142563	50.0000	63.6	
13 Carbon Disulfide	76	2.335	2.321	(0.455)	379716	50.0000	46.7	
14 Acetonitrile	39	2.421	2.407	(0.472)	168516	250.000	180(M)	GT
15 allyl chloride	41	2.421	2.407	(0.472)	335231	50.0000	43.8	
16 Methyl Acetate	43	2.435	2.421	(0.475)	812314	250.000	228	
17 Methylene Chloride	84	2.521	2.507	(0.492)	137219	50.0000	32.6	
18 tert-Butyl Alcohol	59	2.600	2.586	(0.507)	129229	250.000	211	
19 Acrylonitrile	53	2.743	2.722	(0.535)	392737	250.000	235	
20 Methyl-tert-butyl ether	73	2.736	2.722	(0.534)	382713	50.0000	47.5	
21 1,2-Dichloroethene (trans)	96	2.743	2.729	(0.535)	138314	50.0000	43.7	
22 n-Hexane	57	2.972	2.951	(0.580)	219978	50.0000	44.2	
23 1,1-Dichloroethane	63	3.144	3.130	(0.613)	237443	50.0000	49.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.187	3.166	(0.622)	1628326	200.000	200	
	25 Diisopropyl ether	45	3.187	3.166	(0.622)	486047	50.0000	47.5	
	26 chloroprene	53	3.230	3.209	(0.630)	216884	50.0000	51.8(M)	LT
	27 Ethyl-tert-butyl ether	59	3.595	3.567	(0.701)	411051	50.0000	48.7	
	28 2,2-Dichloropropane	77	3.789	3.768	(0.739)	183826	50.0000	47.2	
	29 1,2-Dichloroethene (cis)	96	3.796	3.775	(0.740)	152883	50.0000	42.6	
	30 2-Butanone	43	3.839	3.811	(0.749)	602511	250.000	237	
	31 Ethyl Acetate	88	3.903	3.868	(0.761)	47526	250.000	271	
	32 Propionitrile	54	3.939	3.911	(0.768)	171412	250.000	242(M)	GT
	33 Methacrylonitrile	41	4.111	4.090	(0.802)	932125	250.000	228	
	34 Bromochloromethane	49	4.104	4.075	(0.800)	120640	50.0000	46.9	
	35 Tetrahydrofuran	42	4.154	4.133	(0.810)	469699	250.000	227	
	36 Chloroform	83	4.197	4.176	(0.818)	240455	50.0000	48.8	
$	37 Dibromofluoromethane (S)	113	4.391	4.362	(0.856)	125036	50.0000	51.2	
	38 1,1,1-Trichloroethane	97	4.391	4.370	(0.856)	222744	50.0000	52.2	
	39 Cyclohexane	56	4.434	4.413	(0.865)	261050	50.0000	48.4	
	40 Carbon Tetrachloride	117	4.570	4.549	(0.891)	216147	50.0000	57.7	
	41 1,1-Dichloropropene	75	4.584	4.563	(0.894)	173815	50.0000	50.2	
	42 Isobutyl alcohol	43	4.777	4.749	(0.932)	56716	250.000	231	
	43 Benzene	78	4.820	4.799	(0.940)	544268	50.0000	48.9	
	44 1,2-Dichloroethane	62	4.856	4.842	(0.947)	176123	50.0000	49.4	
	45 2,2,4-Trimethylpentane	57	4.885	4.864	(0.953)	342484	50.0000	43.8	
	46 tert-Amylmethyl ether	73	4.949	4.928	(0.965)	399208	50.0000	46.6	
*	47 Fluorobenzene	96	5.128	5.107	(1.000)	482028	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.075)	142342	50.0000	50.1	
	49 Methylcyclohexane	55	5.687	5.673	(1.109)	193351	50.0000	44.1	
	50 1,2-Dichloropropane	63	5.759	5.745	(1.123)	139375	50.0000	47.3	
	51 Dibromomethane	93	5.880	5.867	(1.147)	91668	50.0000	51.7	
	52 1,4-Dioxane	88	5.916	5.902	(1.154)	20642	1000.00	1200	
	53 Methyl methacrylate	69	5.895	5.881	(1.149)	127625	50.0000	47.8	
	54 Bromodichloromethane	83	6.052	6.031	(1.180)	174198	50.0000	49.6	
	55 2-Chloroethyl vinyl ether	63	6.368	6.347	(0.822)	503909	250.000	226	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	218722	50.0000	47.0	
	57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	1240216	250.000	230	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	464059	50.0000	48.2	
	59 Toluene	91	6.761	6.748	(0.873)	632310	50.0000	46.3	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	199872	50.0000	45.9	
	61 Ethyl Methacrylate	69	7.027	7.020	(0.907)	205503	50.0000	47.0	
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	102630	50.0000	46.7	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	168329	50.0000	52.7	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	201936	50.0000	46.5	
	65 2-Hexanone	43	7.284	7.271	(0.941)	975921	250.000	224	
	66 Dibromochloromethane	129	7.370	7.364	(0.952)	161110	50.0000	54.2	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	139488	50.0000	49.2	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	362181	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	403992	50.0000	49.6	
	70 1,1,1,2-Tetrachloroethane	131	7.807	7.801	(1.008)	149240	50.0000	51.8	
	71 Ethylbenzene	106	7.822	7.815	(1.010)	226706	50.0000	49.2	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	275808	50.0000	49.5	
	73 o-Xylene	106	8.122	8.116	(1.049)	260692	50.0000	49.6	
	74 Styrene	104	8.130	8.122	(1.050)	458523	50.0000	50.6	
	75 Bromoform	173	8.251	8.238	(0.917)	121699	50.0000	52.0	
	76 Isopropylbenzene	105	8.323	8.316	(1.075)	699414	50.0000	50.8	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	156036	50.0000	51.5	

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	220250	50.0000	47.0	
79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	187770	50.0000	43.0	
80 1,2,3-Trichloropropane	110	8.524	8.516	(0.947)	65242	50.0000	46.6	
81 trans-1,4-Dichloro-2-butene	53	8.524	8.516	(1.101)	68459	50.0000	46.2	
82 n-Propylbenzene	91	8.538	8.538	(0.949)	792514	50.0000	44.2	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	421389	50.0000	43.8	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	536023	50.0000	46.8	
85 4-Chlorotoluene	126	8.645	8.638	(0.961)	170351	50.0000	48.1	
86 tert-Butylbenzene	119	8.796	8.789	(0.978)	530619	50.0000	47.7	
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.980)	540250	50.0000	47.2	
88 sec-Butylbenzene	105	8.903	8.897	(0.990)	669237	50.0000	48.3	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	292473	50.0000	49.6	
90 p-Isopropyltoluene	119	8.968	8.961	(0.997)	568975	50.0000	50.1	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	182732	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.002)	287612	50.0000	47.4	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	500237	50.0000	47.1	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	436140	50.0000	45.4	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	259601	50.0000	51.5	
96 Hexachloroethane	201	9.312	9.312	(1.035)	75501	50.0000	54.7	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	40533	50.0000	50.0	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	80410	50.0000	47.7	
99 Hexachlorobutadiene	225	9.992	10.007	(1.111)	39346	50.0000	51.2	
100 Naphthalene	128	10.056	10.064	(1.118)	246790	50.0000	46.5	
101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.131)	47347	50.0000	49.0	
102 2,methyl-naphthalene	142	10.637	10.644	(1.182)	12556	50.0000	49.5	
103 1-Methylnaphthalene	142	10.751	10.766	(1.195)	7340	50.0000	53.2	

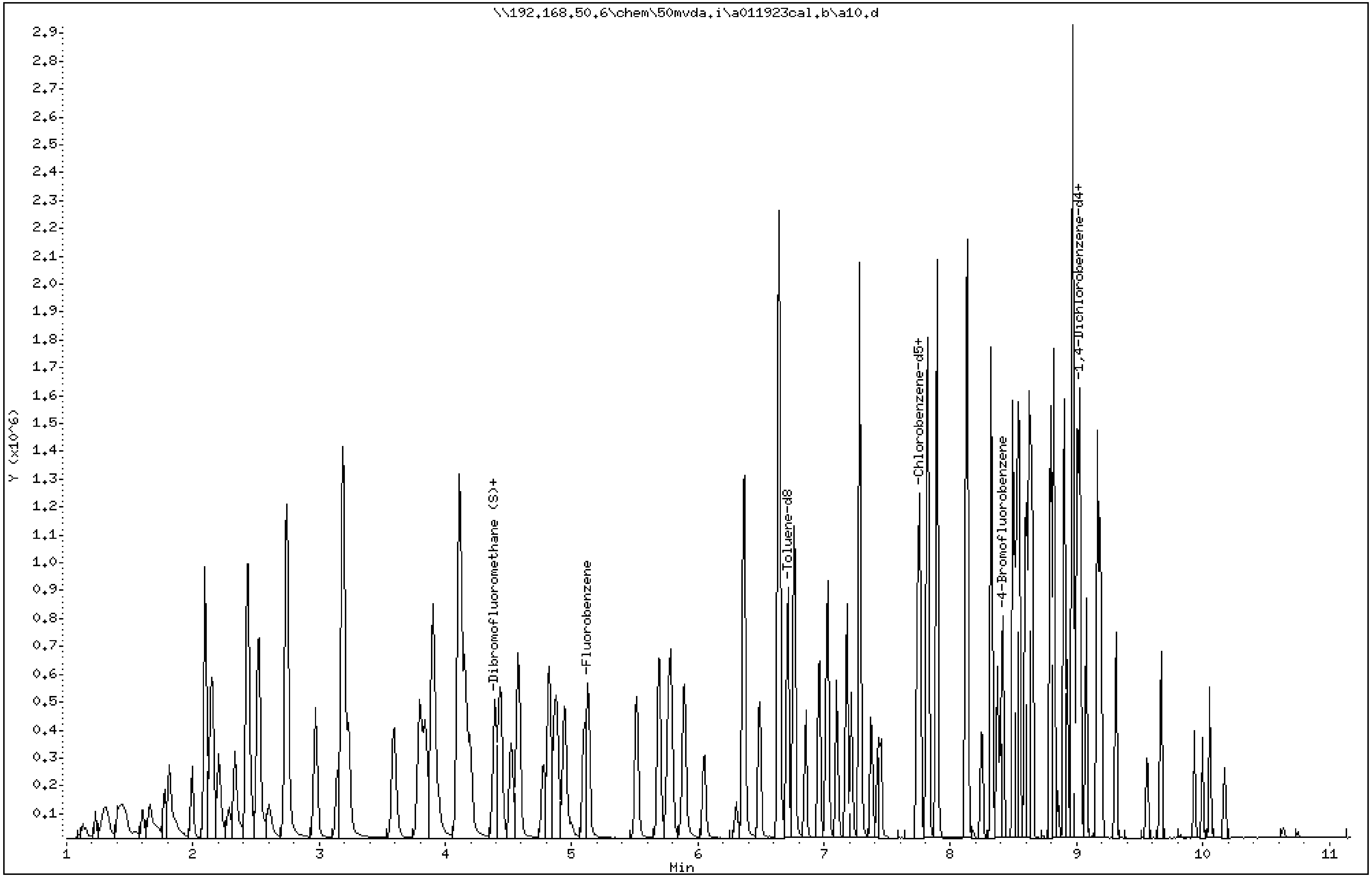
QC Flag Legend

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).
:
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\50mvda.i\a011923cal.b\a10.d
Date : 19-JAN-2023 17:44
Client ID: 8260-CAL7 Instrument: 50mvda.i
Sample Info: 8260-CAL7,335783:0
Purge Volume: 5.0 Operator: ala
Column phase: DB-624 Column diameter: 0.18



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Date : 19-JAN-2023 17:44

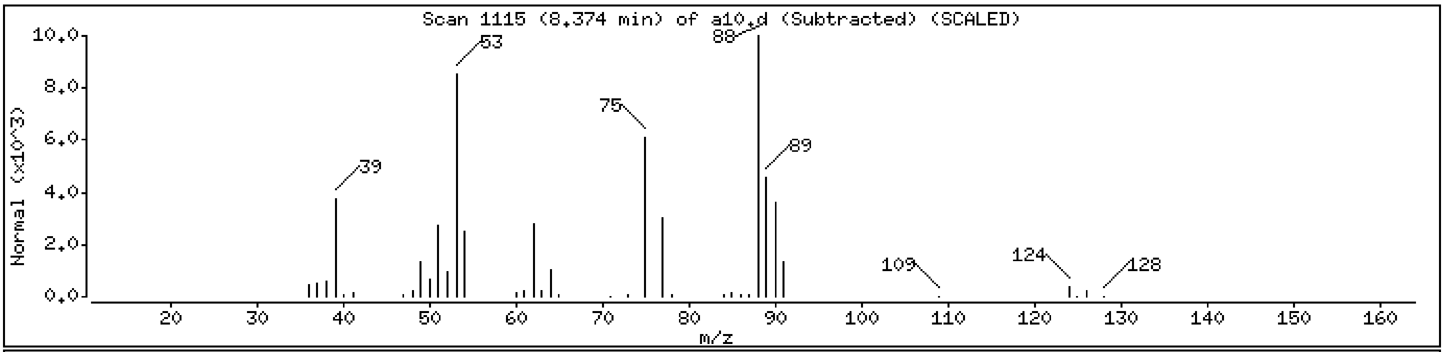
Client ID: 8260-CAL7 Instrument: 50mvda.i

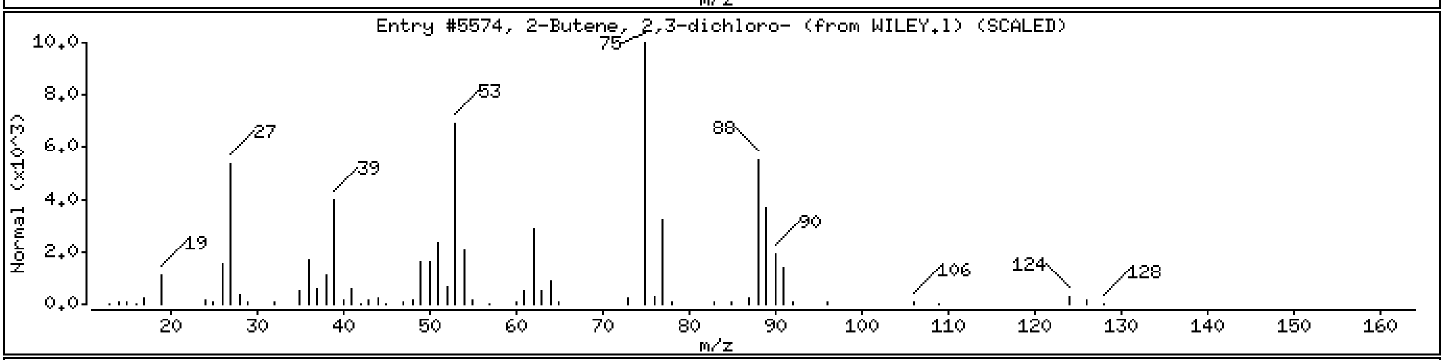
Sample Info: 8260-CAL7,335783:0

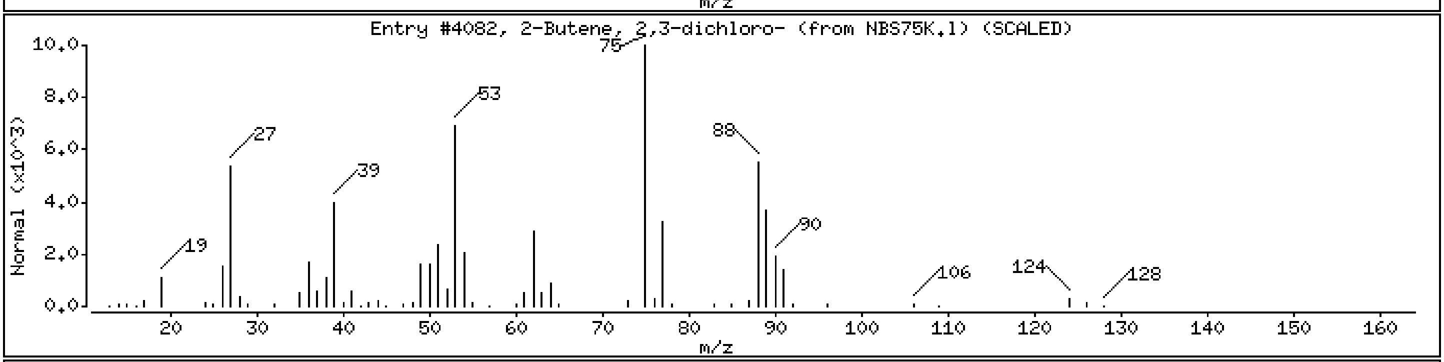
Purge Volume: 5.0 Operator: ala

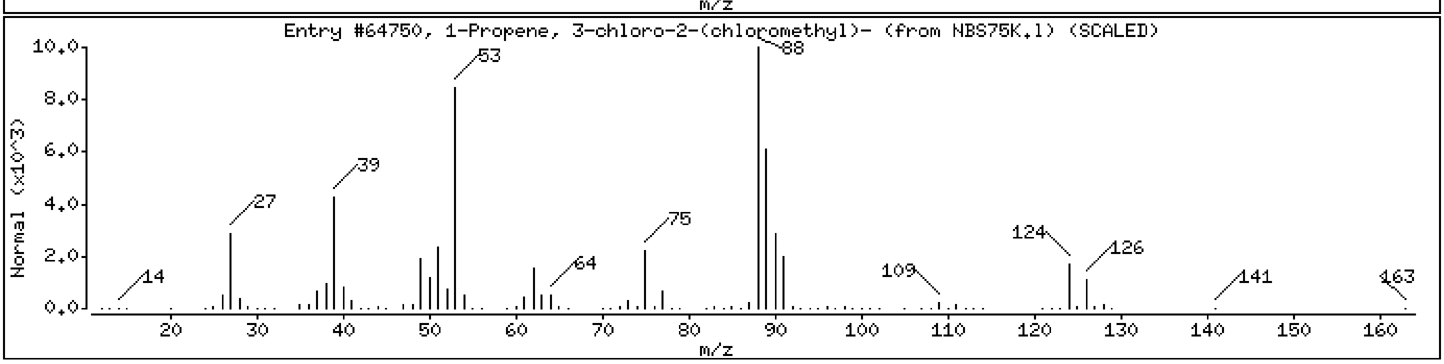
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	74	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	74	C4H6Cl2	124
1-Propene, 3-chloro-2-(chloromethyl)-	1871-57-4	NBS75K.l	64750	64	C4H6Cl2	124









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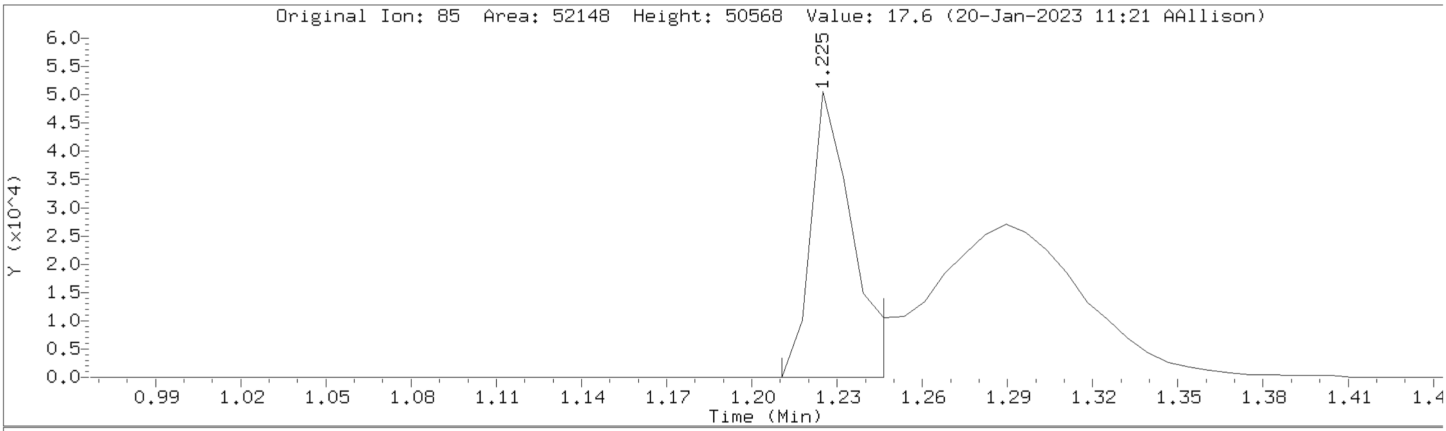
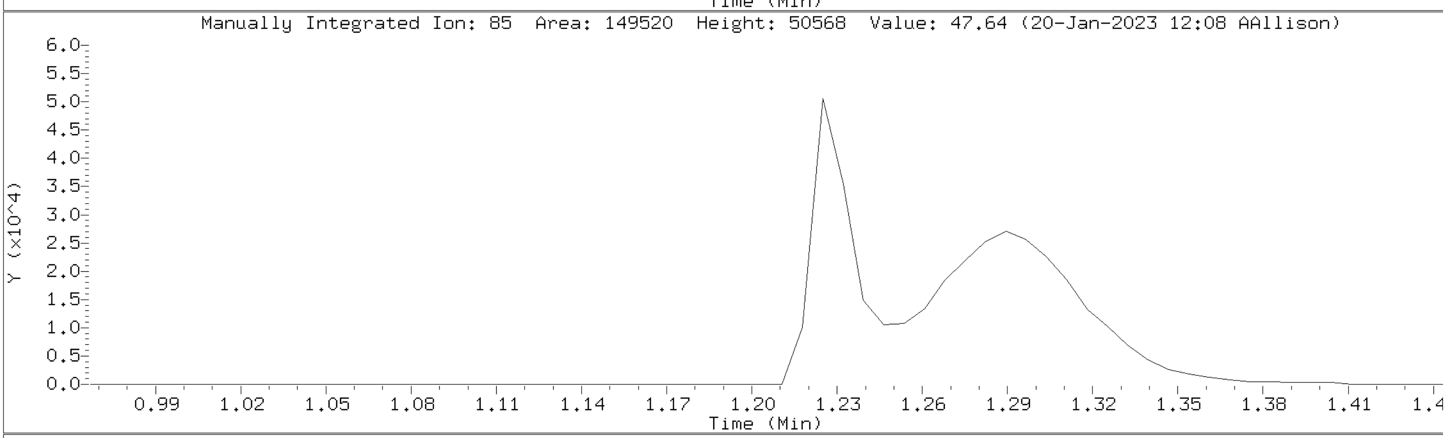
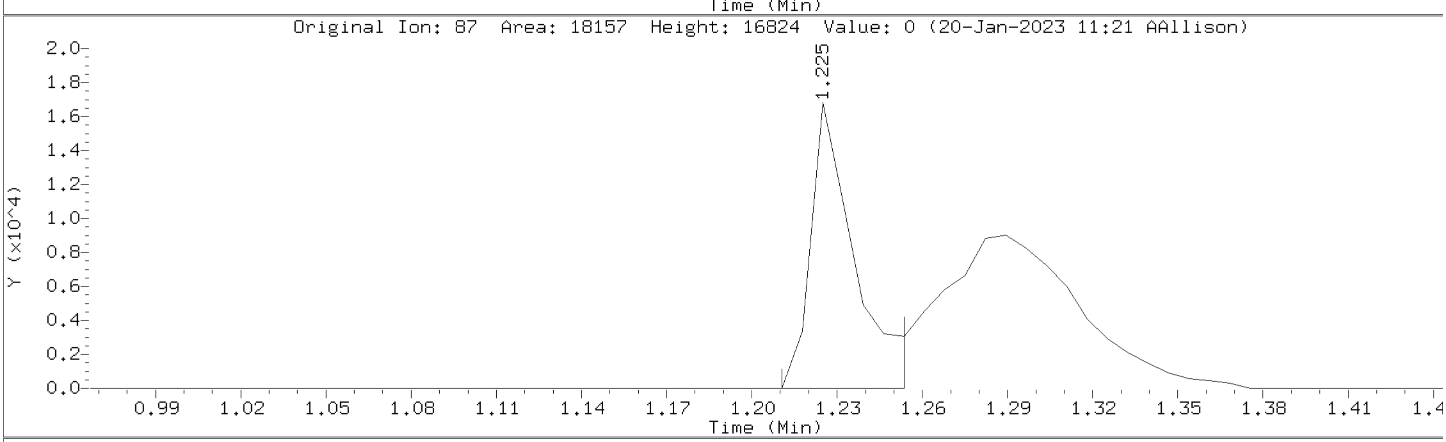
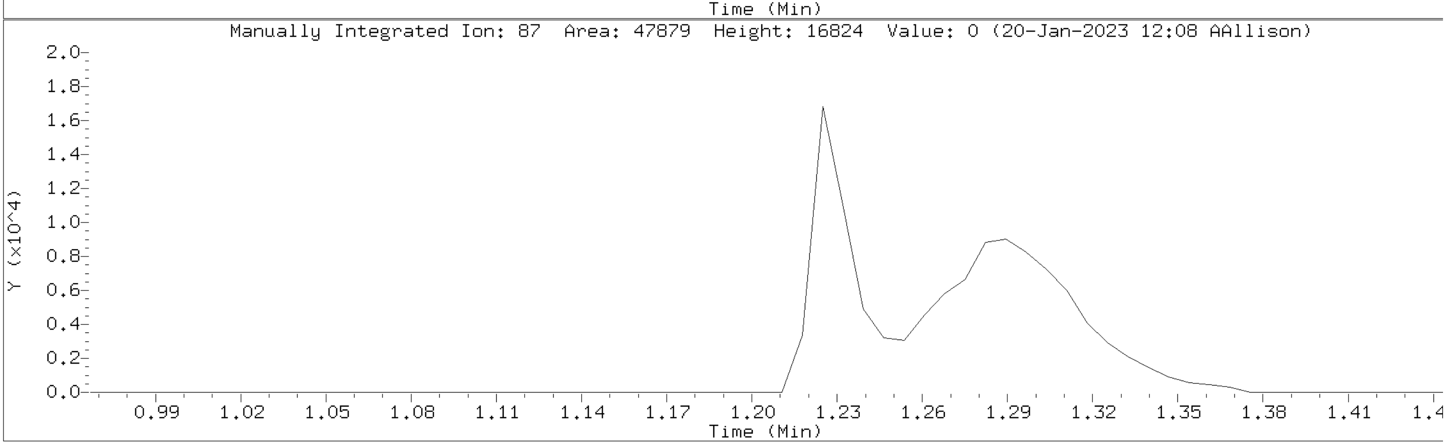
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4









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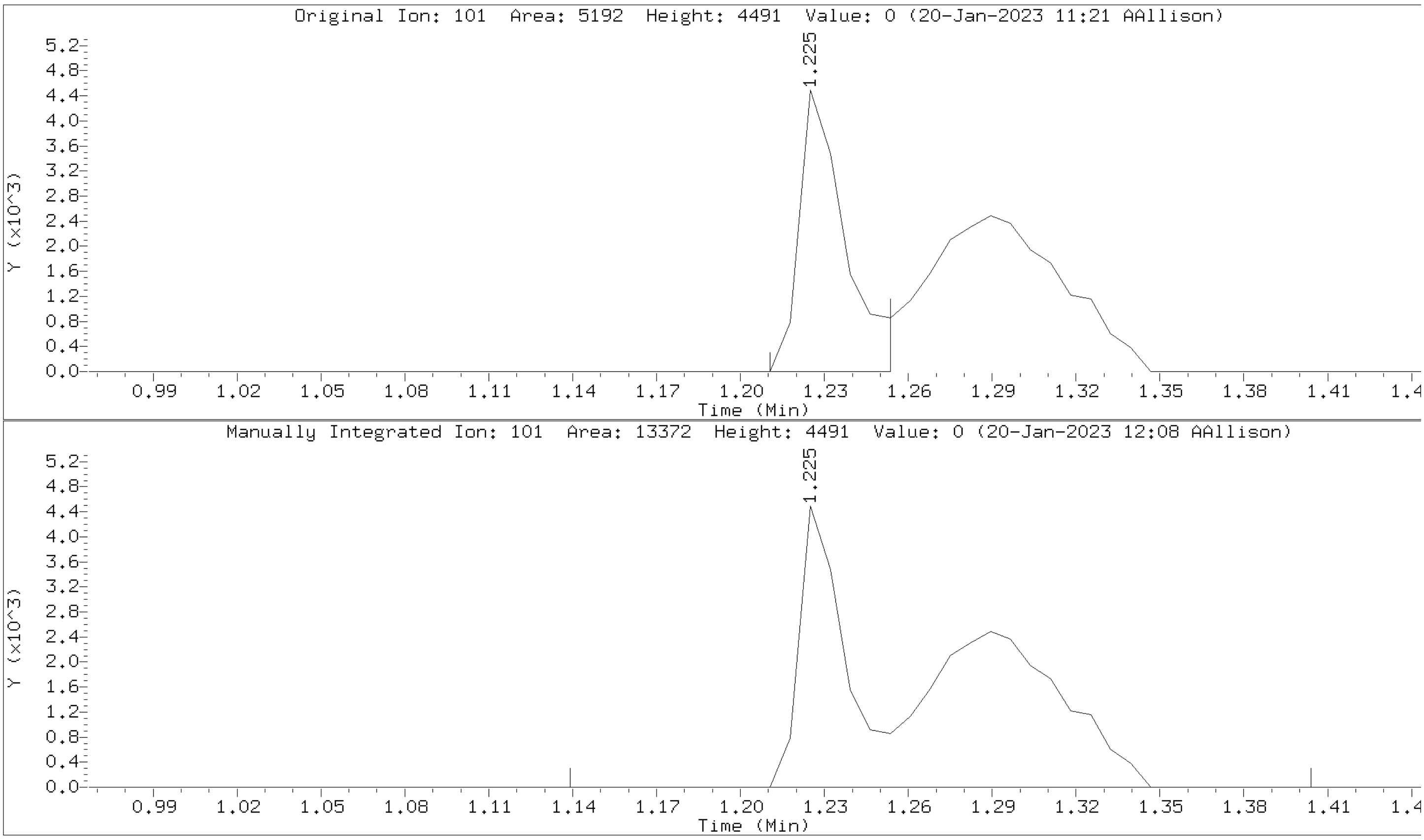
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7



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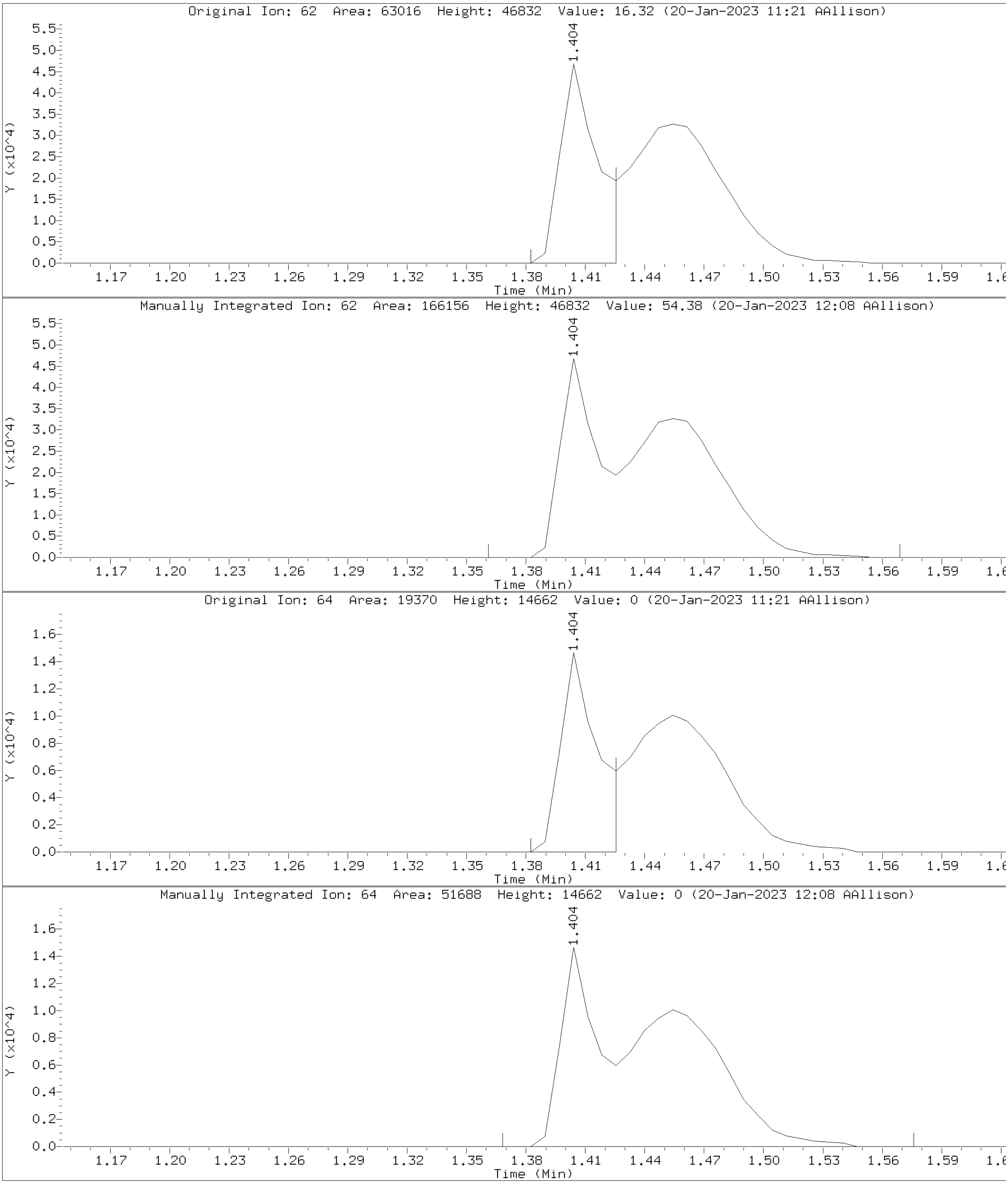
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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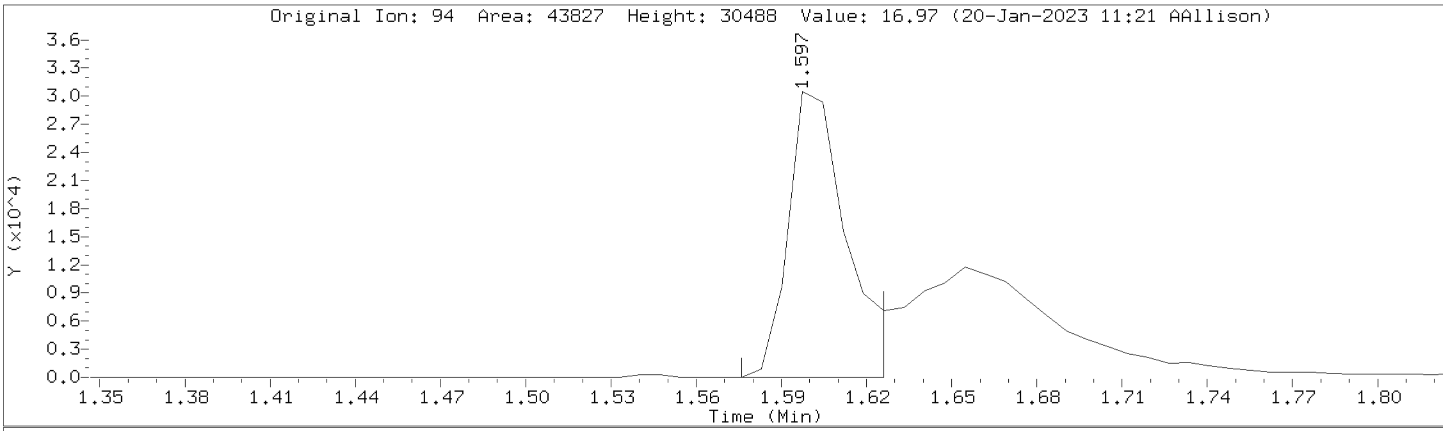
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

Original Ion: 94 Area: 43827 Height: 30488 Value: 16.97 (20-Jan-2023 11:21 AAllison)



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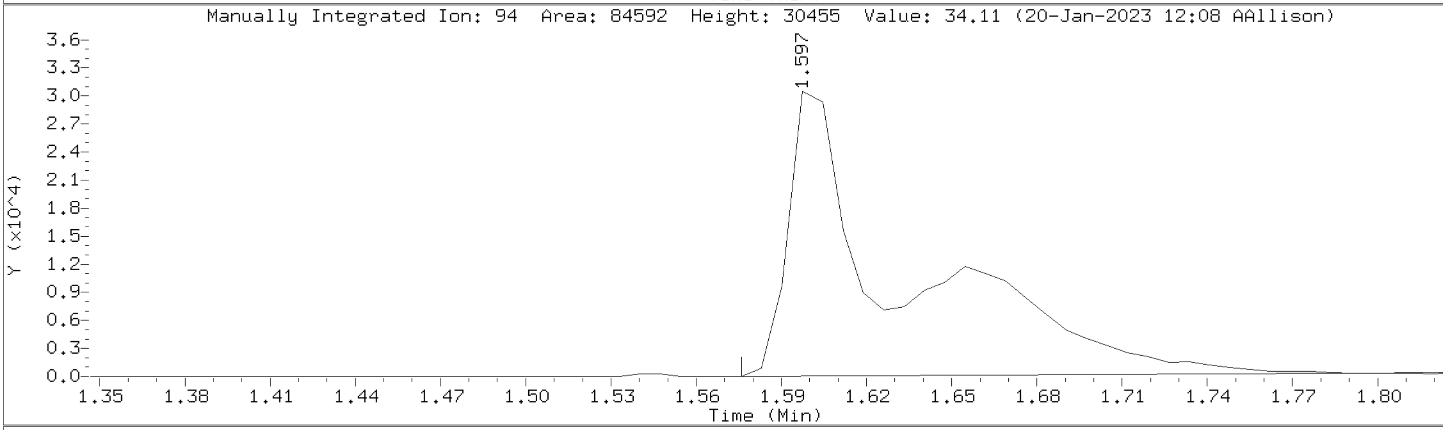
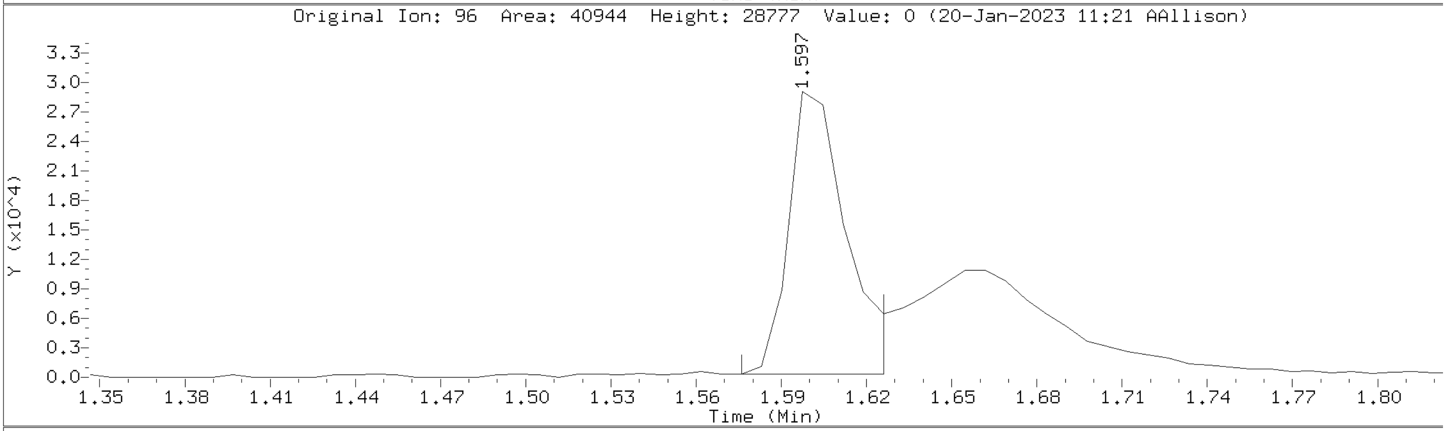
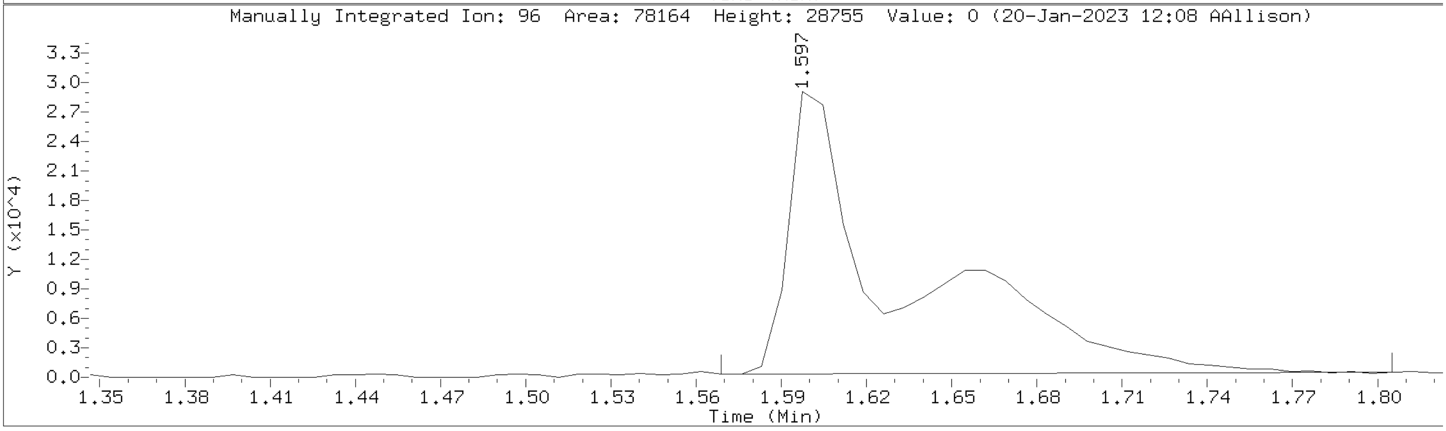


Original Ion: 96 Area: 40944 Height: 28777 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 96 Area: 78164 Height: 28755 Value: 0 (20-Jan-2023 12:08 AAllison)



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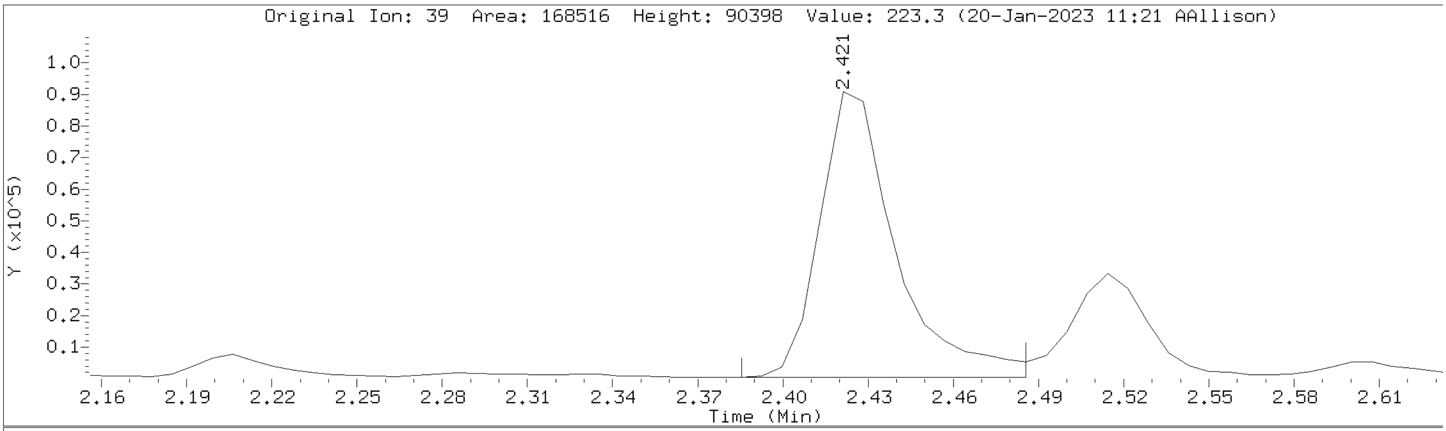
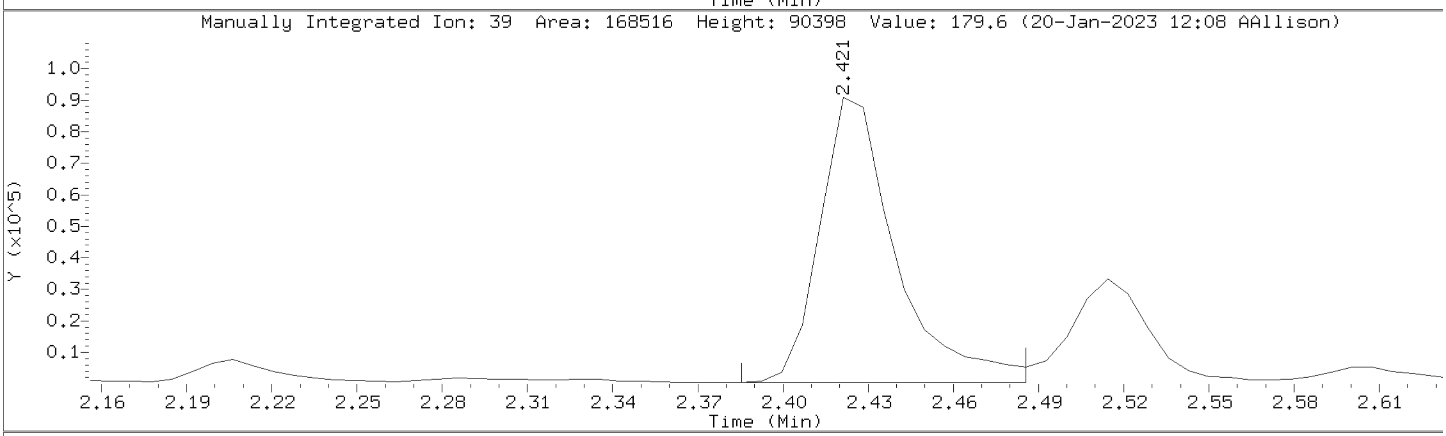
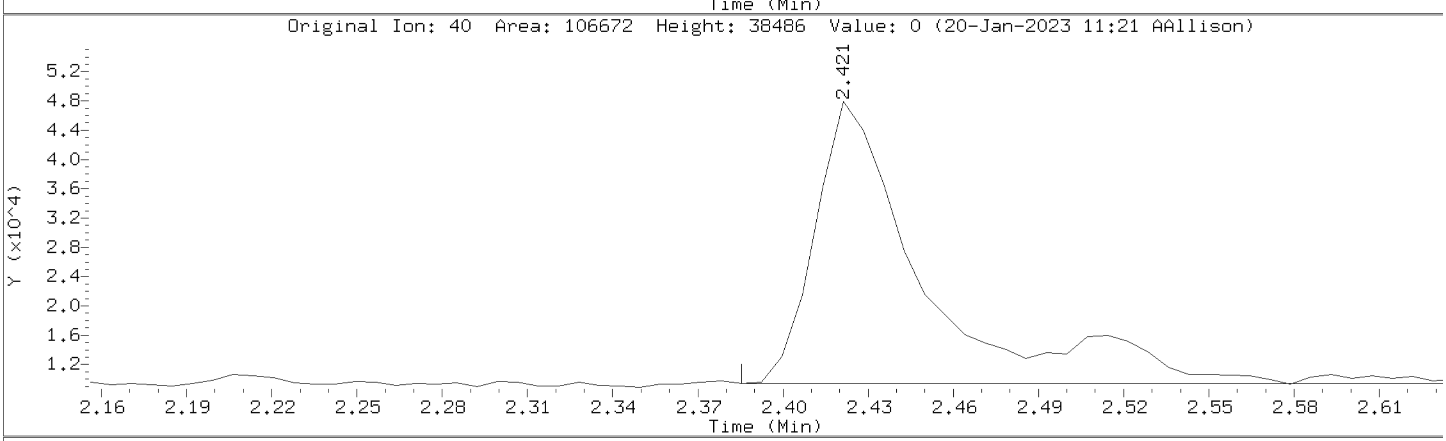
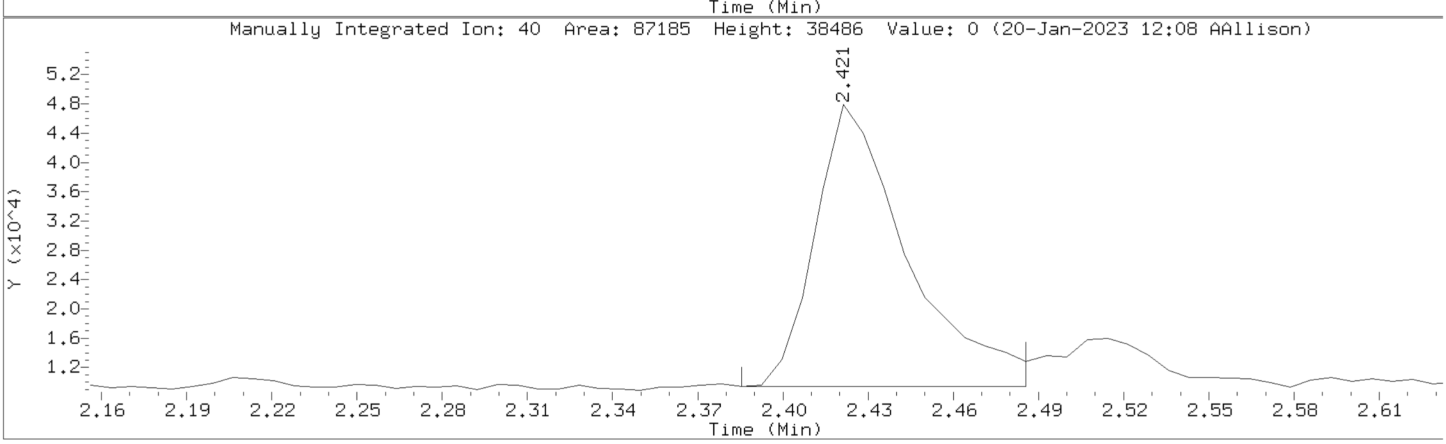
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8









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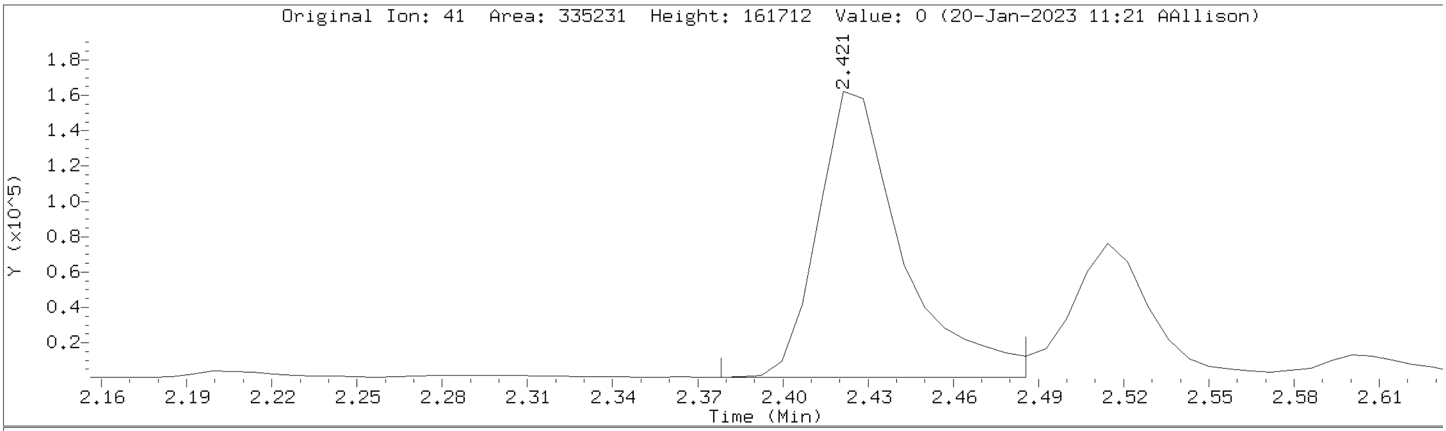
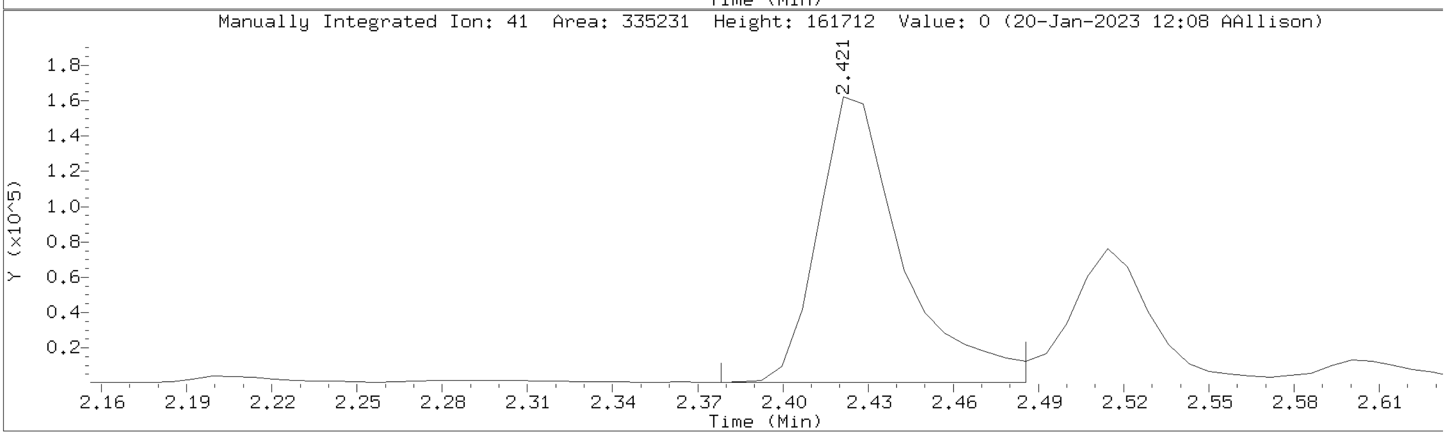
Lab Sample ID: 8260-CAL7





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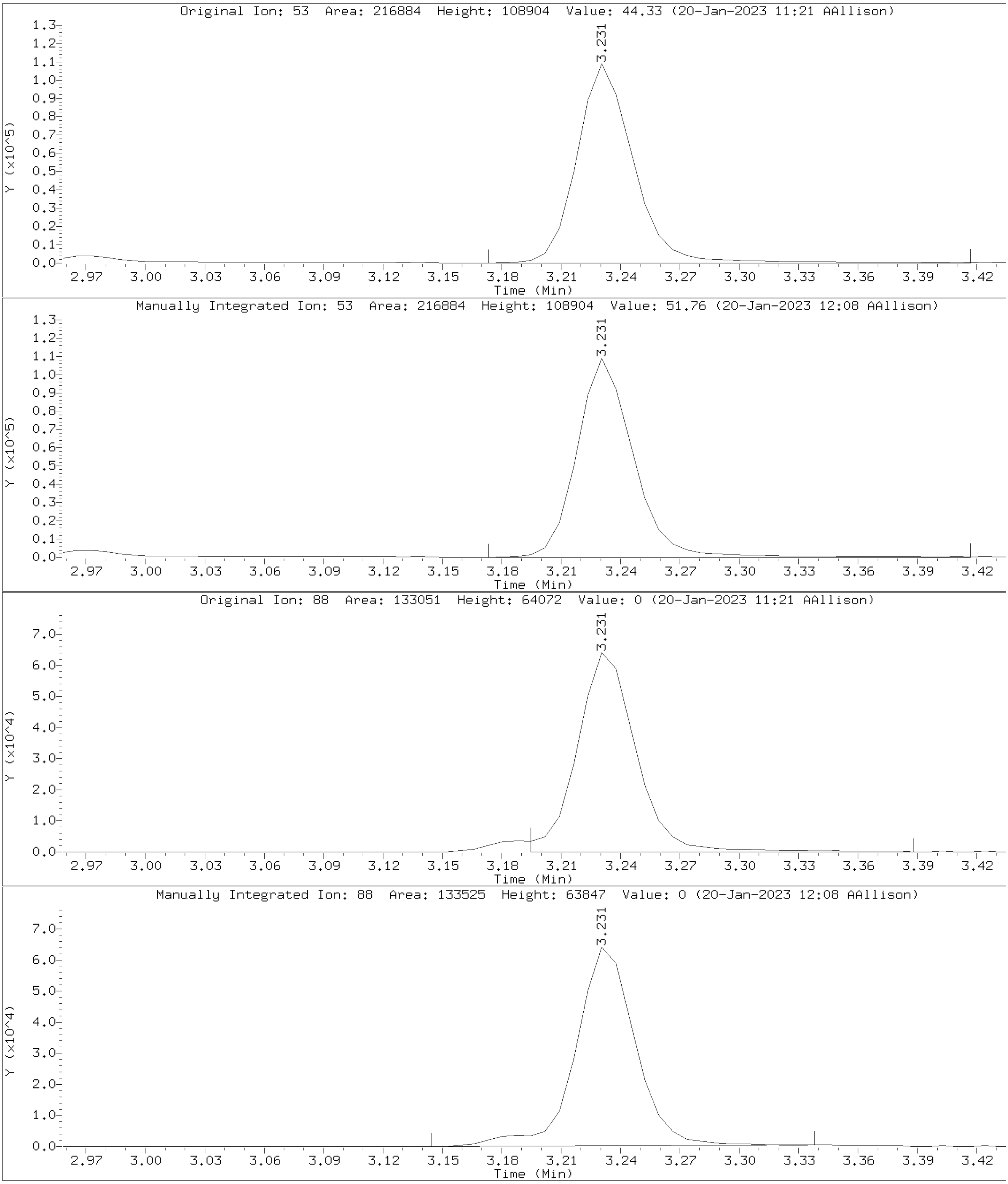
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: chloroprene   Review Code: LT
CAS Number: 126-99-8



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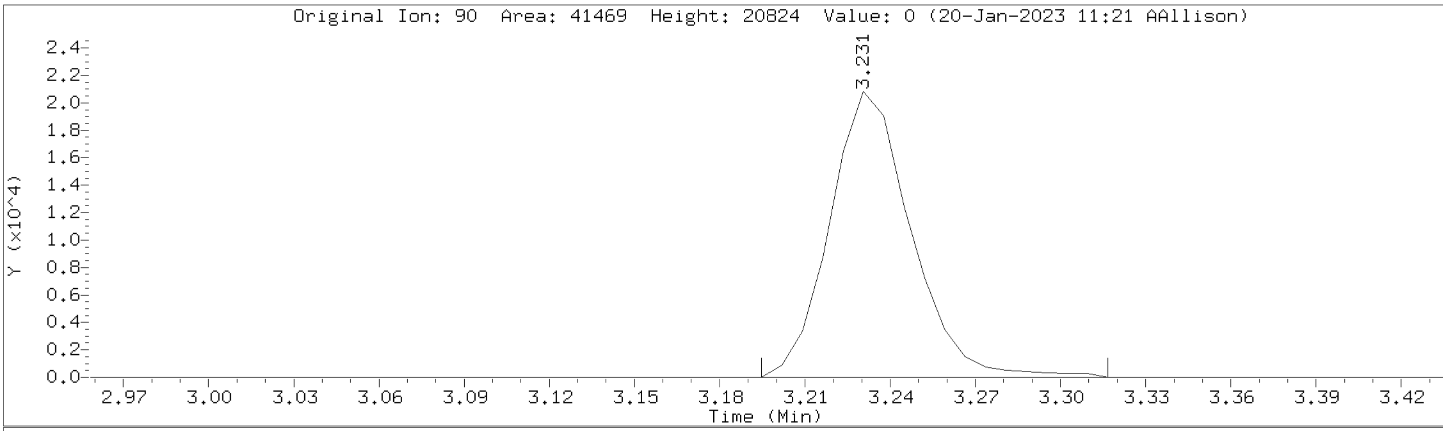
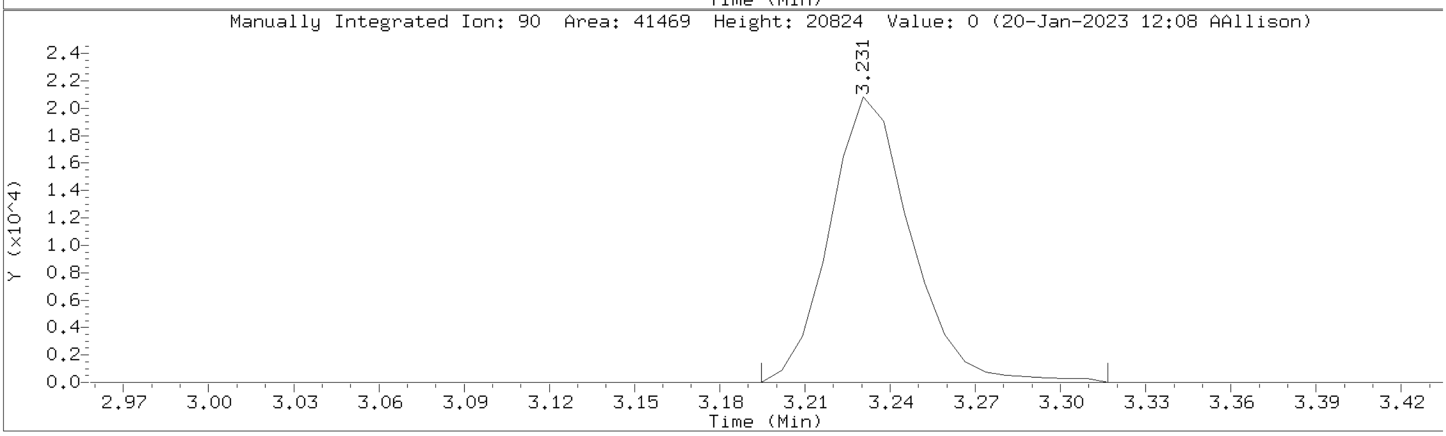
Lab Sample ID: 8260-CAL7





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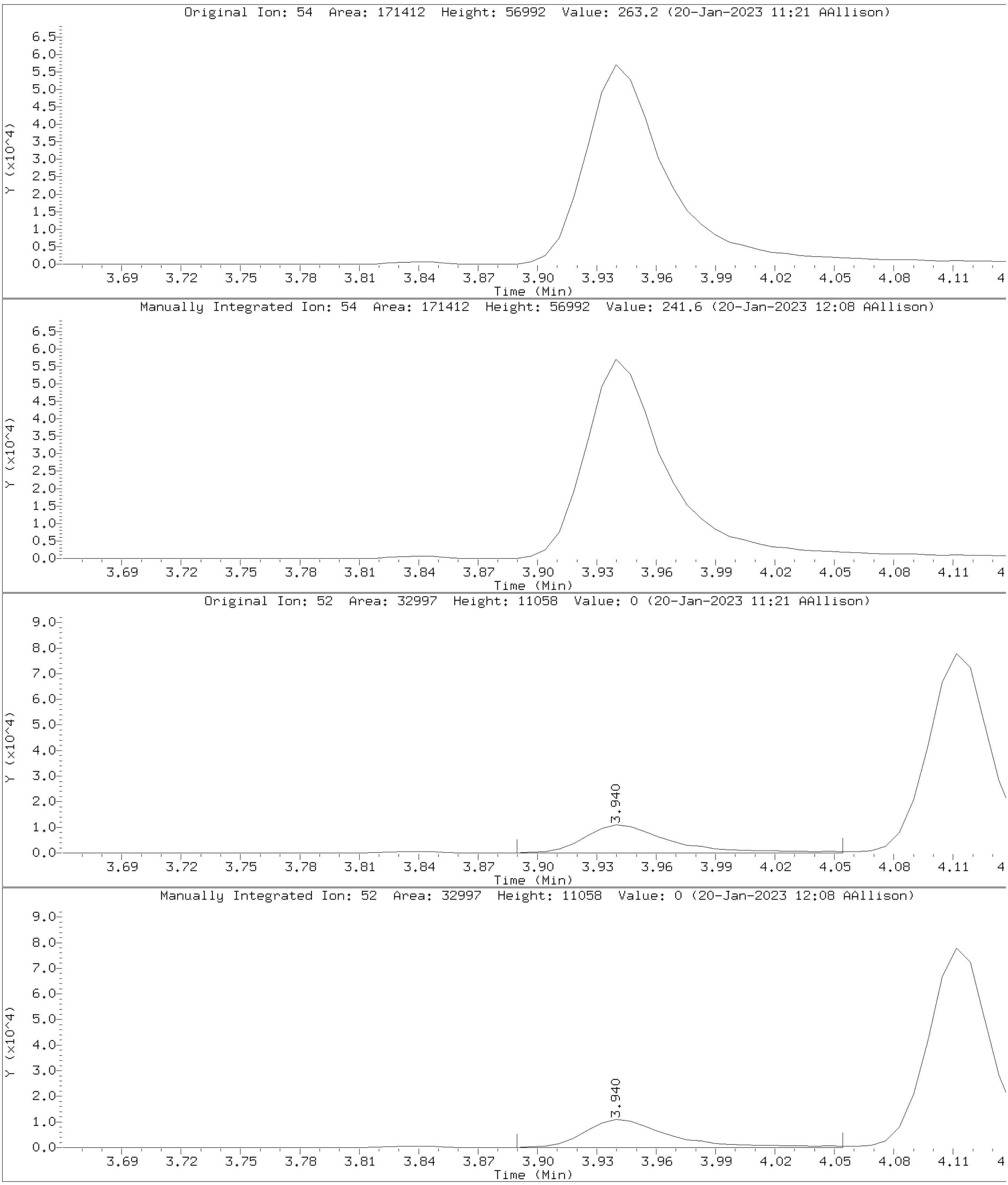
Injection Date: 19-JAN-2023 17:44
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL7

Compound: Propionitrile   Review Code: GT
CAS Number: 107-12-0



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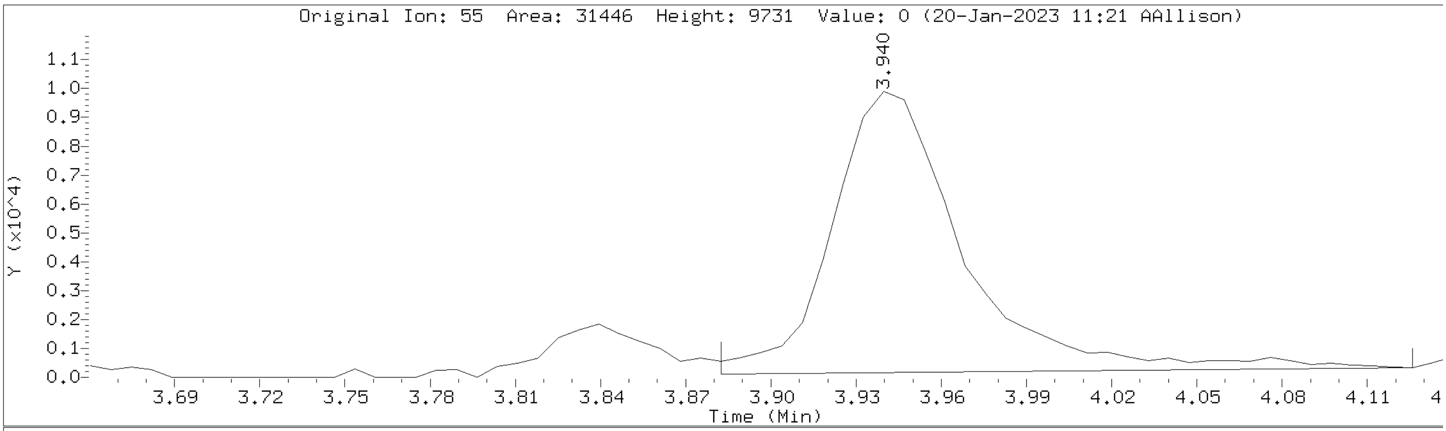
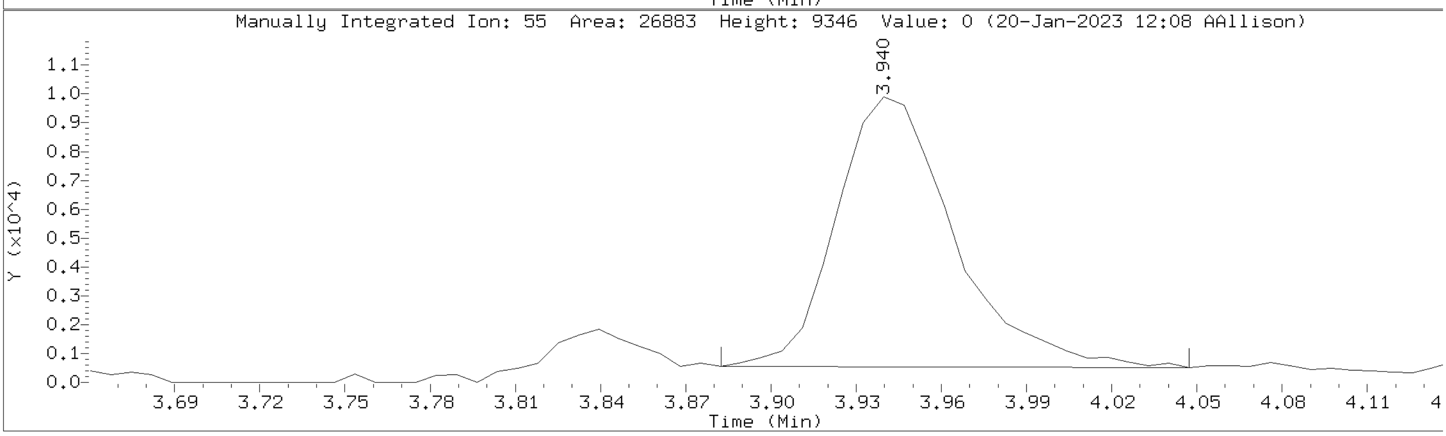
Lab Sample ID: 8260-CAL7





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a11.d
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Inj Date : 19-JAN-2023 18:13
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal8,335784:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.224	1.218	(0.239)	511214	150.000	154(M)	LT
2 Chloromethane	50	1.425	1.397	(0.278)	474880	150.000	129	
3 Vinyl Chloride	62	1.461	1.397	(0.285)	512507	150.000	158(M)	LT
4 Bromomethane	94	1.597	1.597	(0.311)	276711	150.000	111(M)	LT
5 Chloroethane	64	1.654	1.655	(0.323)	272927	150.000	133	
6 Trichlorofluoromethane	101	1.812	1.805	(0.353)	659131	150.000	174	
7 Diethyl ether	74	1.991	1.977	(0.388)	242550	150.000	126	
8 Acrolein	56	2.098	2.085	(0.409)	2642625	3000.00	3260	
9 1,1,2trichlorotrifluoroethane	101	2.141	2.134	(0.418)	436318	150.000	166	
10 1,1-Dichloroethene	96	2.155	2.149	(0.420)	397712	150.000	143	
11 Acetone	43	2.206	2.192	(0.430)	1019569	750.000	659	
12 Iodomethane	142	2.277	2.271	(0.444)	534416	150.000	209	
13 Carbon Disulfide	76	2.327	2.321	(0.454)	1145602	150.000	136	
14 Acetonitrile	39	2.421	2.407	(0.472)	463773	750.000	496	
15 allyl chloride	41	2.421	2.407	(0.472)	931239	150.000	120	
16 Methyl Acetate	43	2.435	2.421	(0.475)	2655418	750.000	715	
17 Methylene Chloride	84	2.521	2.507	(0.492)	408527	150.000	98.5	
18 tert-Butyl Alcohol	59	2.607	2.586	(0.508)	355496	750.000	574	
19 Acrylonitrile	53	2.743	2.722	(0.535)	1262924	750.000	724	
20 Methyl-tert-butyl ether	73	2.736	2.722	(0.533)	1176978	150.000	140	
21 1,2-Dichloroethene (trans)	96	2.743	2.729	(0.535)	426511	150.000	131	
22 n-Hexane	57	2.965	2.951	(0.578)	652124	150.000	128	
23 1,1-Dichloroethane	63	3.151	3.130	(0.615)	714754	150.000	142	

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	24 Vinyl Acetate	43	3.187	3.166	(0.622)	5823269	600.000	668	
	25 Diisopropyl ether	45	3.187	3.166	(0.622)	1500878	150.000	141	
	26 chloroprene	53	3.230	3.209	(0.630)	631631	150.000	144	
	27 Ethyl-tert-butyl ether	59	3.595	3.567	(0.701)	1219354	150.000	139	
	28 2,2-Dichloropropane	77	3.789	3.768	(0.739)	533928	150.000	133	
	29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.742)	462338	150.000	126	
	30 2-Butanone	43	3.839	3.811	(0.749)	1625538	750.000	626	
	31 Ethyl Acetate	88	3.903	3.868	(0.761)	139670	750.000	755	
	32 Propionitrile	54	3.946	3.911	(0.770)	482089	750.000	661	
	33 Methacrylonitrile	41	4.118	4.090	(0.803)	2726149	750.000	648	
	34 Bromochloromethane	49	4.104	4.075	(0.800)	351810	150.000	133	
	35 Tetrahydrofuran	42	4.154	4.133	(0.810)	1344922	750.000	635	
	36 Chloroform	83	4.197	4.176	(0.818)	712073	150.000	139	
$	37 Dibromofluoromethane (S)	113	4.390	4.362	(0.856)	133577	50.0000	51.7	
	38 1,1,1-Trichloroethane	97	4.390	4.370	(0.856)	658848	150.000	147	
	39 Cyclohexane	56	4.433	4.413	(0.865)	760142	150.000	136	
	40 Carbon Tetrachloride	117	4.569	4.549	(0.891)	636376	150.000	160	
	41 1,1-Dichloropropene	75	4.584	4.563	(0.894)	501832	150.000	139	
	42 Isobutyl alcohol	43	4.777	4.749	(0.932)	156568	750.000	630	
	43 Benzene	78	4.820	4.799	(0.940)	1620632	150.000	140	
	44 1,2-Dichloroethane	62	4.863	4.842	(0.948)	526796	150.000	142	
	45 2,2,4-Trimethylpentane	57	4.885	4.864	(0.953)	1152993	150.000	141	
	46 tert-Amylmethyl ether	73	4.949	4.928	(0.965)	1221184	150.000	137	
*	47 Fluorobenzene	96	5.128	5.107	(1.000)	506954	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.075)	423199	150.000	143	
	49 Methylcyclohexane	55	5.694	5.673	(1.110)	569246	150.000	126	
	50 1,2-Dichloropropane	63	5.758	5.745	(1.123)	414836	150.000	136	
	51 Dibromomethane	93	5.880	5.867	(1.147)	281045	150.000	150	
	52 1,4-Dioxane	88	5.916	5.902	(1.154)	61260	3000.00	3280	
	53 Methyl methacrylate	69	5.895	5.881	(1.149)	377243	150.000	137	
	54 Bromodichloromethane	83	6.052	6.031	(1.180)	531248	150.000	144	
	55 2-Chloroethyl vinyl ether	63	6.367	6.347	(0.822)	1672522	750.000	718	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	656395	150.000	136	
	57 4-Methyl-2-Pentanone	43	6.640	6.626	(0.858)	3723197	750.000	670	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	490540	50.0000	48.7	
	59 Toluene	91	6.768	6.748	(0.874)	1914938	150.000	135	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	613070	150.000	136	
	61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	620583	150.000	137	
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	314940	150.000	138	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	522166	150.000	155	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	614673	150.000	136	
	65 2-Hexanone	43	7.284	7.271	(0.941)	2854999	750.000	640	
	66 Dibromochloromethane	129	7.377	7.364	(0.953)	511207	150.000	161	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	441096	150.000	148	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	380883	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	1248270	150.000	146	
	70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	465264	150.000	153	
	71 Ethylbenzene	106	7.821	7.815	(1.010)	670595	150.000	140	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	838237	150.000	144	
	73 o-Xylene	106	8.122	8.116	(1.049)	817524	150.000	148	
	74 Styrene	104	8.137	8.122	(1.051)	1491974	150.000	156	
	75 Bromoform	173	8.251	8.238	(0.917)	395619	150.000	153	
	76 Isopropylbenzene	105	8.323	8.316	(1.075)	2185665	150.000	151	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	164773	50.0000	51.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	78 Bromobenzene	77	8.495	8.488	(1.097)	653985	150.000	135	
	79 1,1,2,2-Tetrachloroethane	83	8.495	8.488	(0.944)	561833	150.000	121	
	80 1,2,3-Trichloropropane	110	8.523	8.516	(0.947)	196291	150.000	130	
	81 trans-1,4-Dichloro-2-butene	53	8.523	8.516	(1.101)	202336	150.000	133	
	82 n-Propylbenzene	91	8.545	8.538	(0.950)	2405334	150.000	125	
	83 2-Chlorotoluene	91	8.595	8.589	(0.955)	1279795	150.000	124	
	84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	1669342	150.000	134	
	85 4-Chlorotoluene	126	8.652	8.638	(0.962)	532040	150.000	138	
	86 tert-Butylbenzene	119	8.796	8.789	(0.978)	1694536	150.000	140(M)	LT
	87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.980)	1704887	150.000	137	
	88 sec-Butylbenzene	105	8.903	8.897	(0.990)	2109342	150.000	140	
	89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	985232	150.000	151	
	90 p-Isopropyltoluene	119	8.968	8.961	(0.997)	1855759	150.000	149	
*	91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	201321	50.0000		
	92 1,4-Dichlorobenzene	146	9.011	9.004	(1.002)	933283	150.000	141	
	93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	1544069	150.000	134	
	94 n-Butylbenzene	91	9.161	9.162	(1.018)	1384680	150.000	133	
	95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	848072	150.000	152	
	96 Hexachloroethane	201	9.311	9.312	(1.035)	259650	150.000	167	
	97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	123560	150.000	140	
	98 1,2,4-Trichlorobenzene	180	9.927	9.942	(1.103)	239379	150.000	131	
	99 Hexachlorobutadiene	225	9.992	10.007	(1.111)	128258	150.000	151	
	100 Naphthalene	128	10.056	10.064	(1.118)	711301	150.000	125	
	101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.131)	133781	150.000	129	
	102 2,methyl-naphthalene	142	10.637	10.644	(1.182)	30800	150.000	118	
	103 1-Methylnaphthalene	142	10.751	10.766	(1.195)	18937	150.000	130	

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).
:

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a11.d

Date : 19-JAN-2023 18:13

Client ID: 8260-CAL8

Sample Info: 8260-CAL8,335784:0

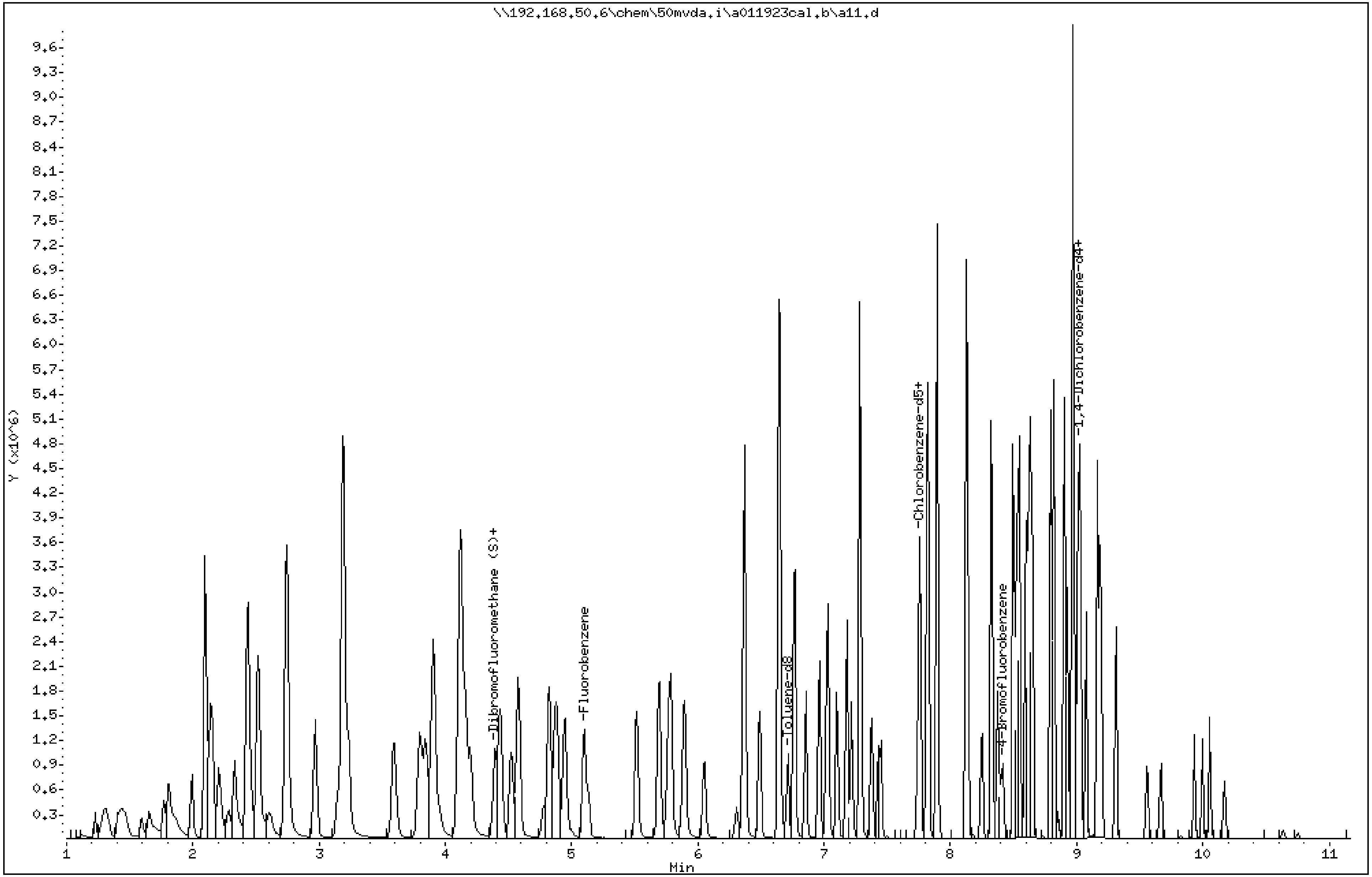
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvda.i

Operator: ala

Column diameter: 0.18



Date : 19-JAN-2023 18:13

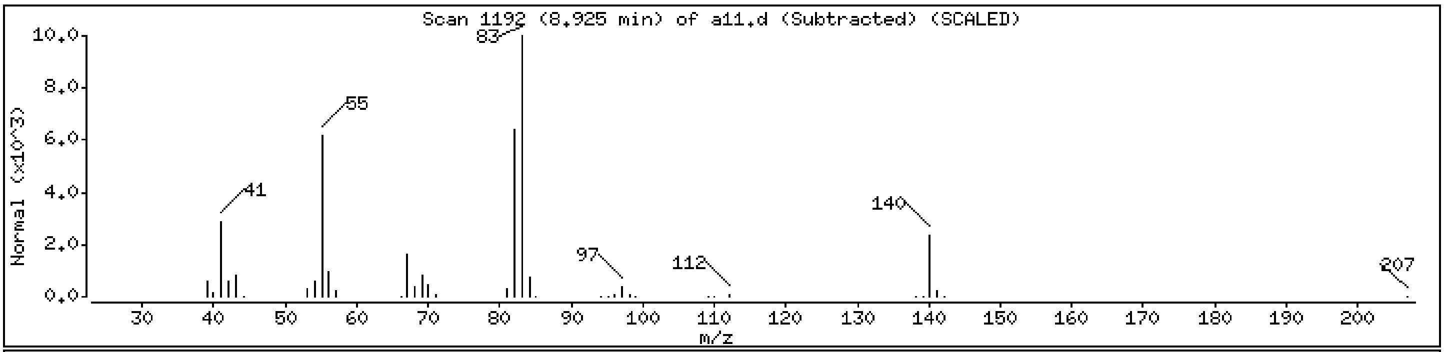
Client ID: 8260-CAL8 Instrument: 50mvda.i

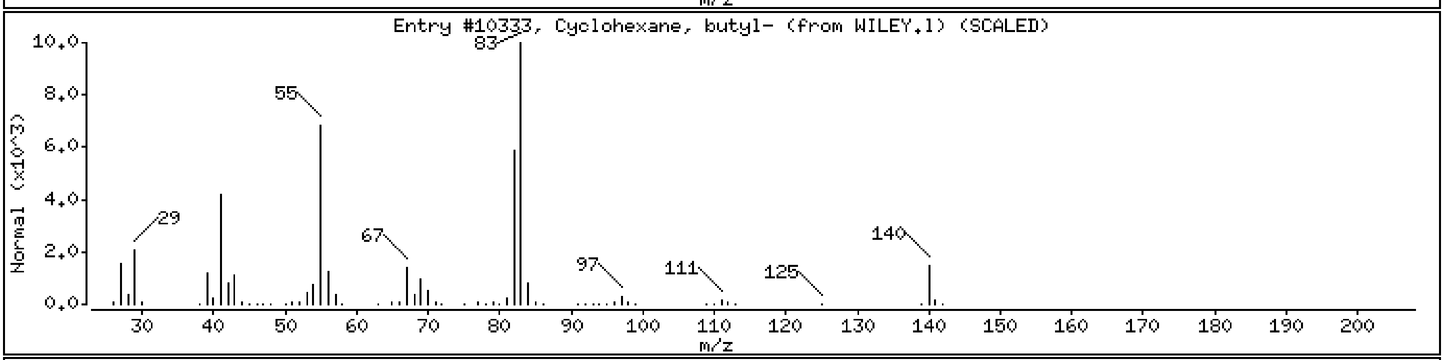
Sample Info: 8260-CAL8,335784:0

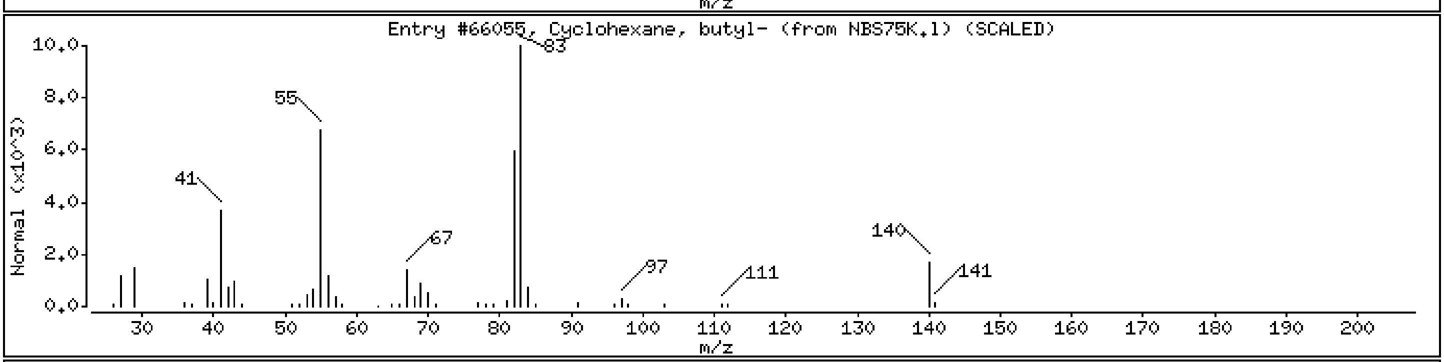
Purge Volume: 5.0 Operator: ala

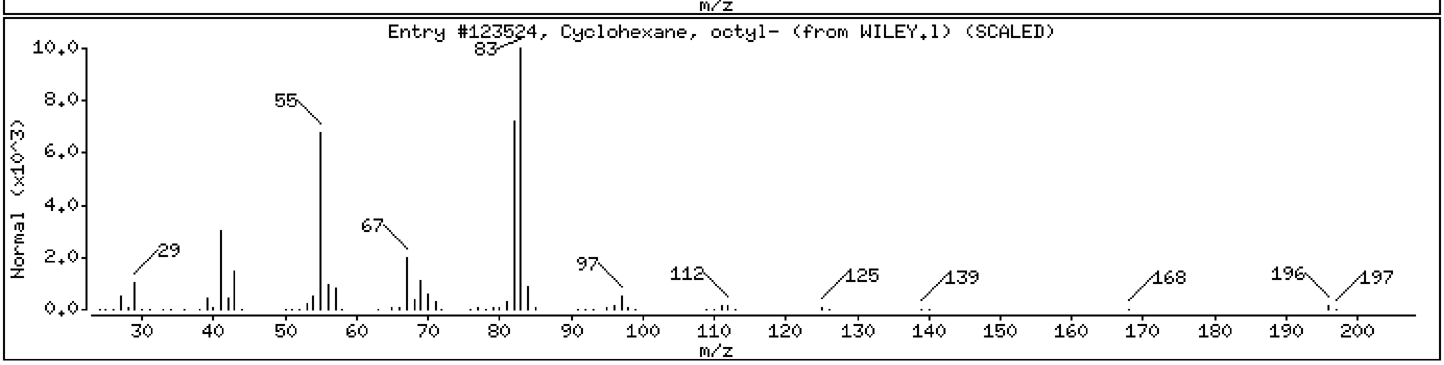
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	WILEY.l	10333	91	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	91	C10H20	140
Cyclohexane, octyl-	1795-15-9	WILEY.l	123524	80	C14H28	196





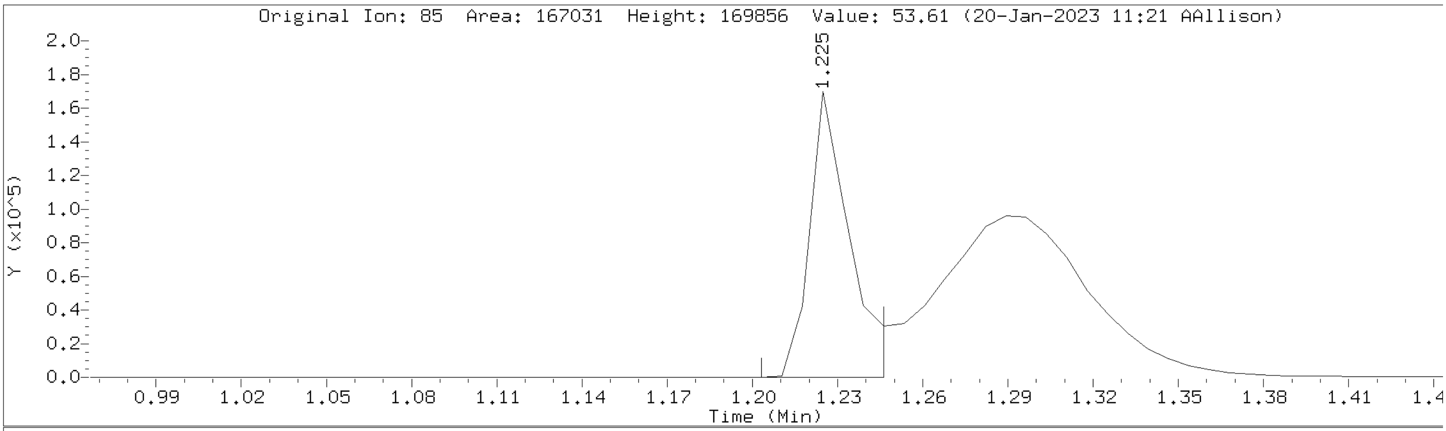




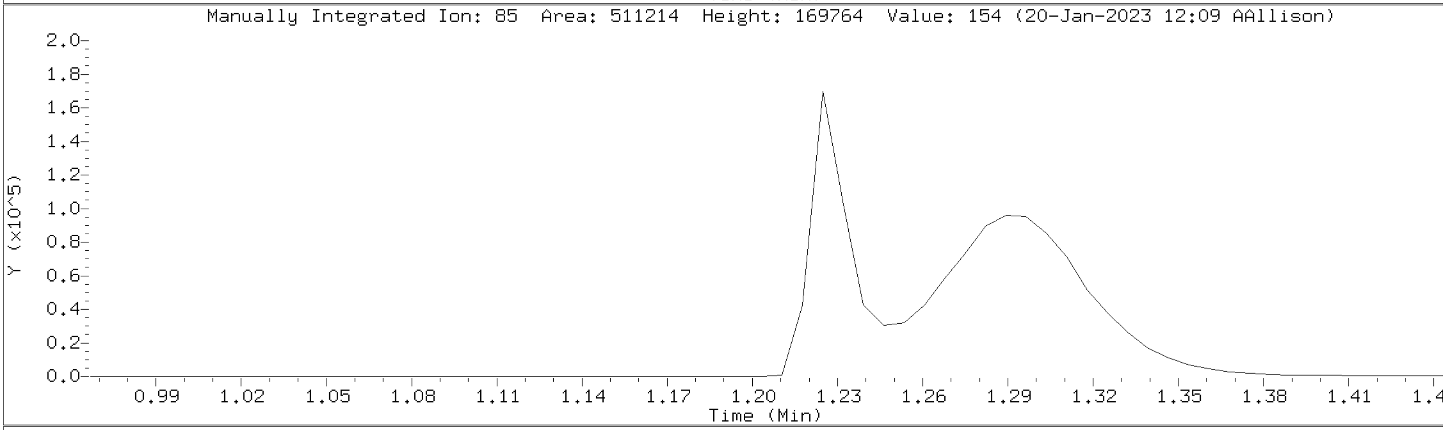
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a11.d
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4

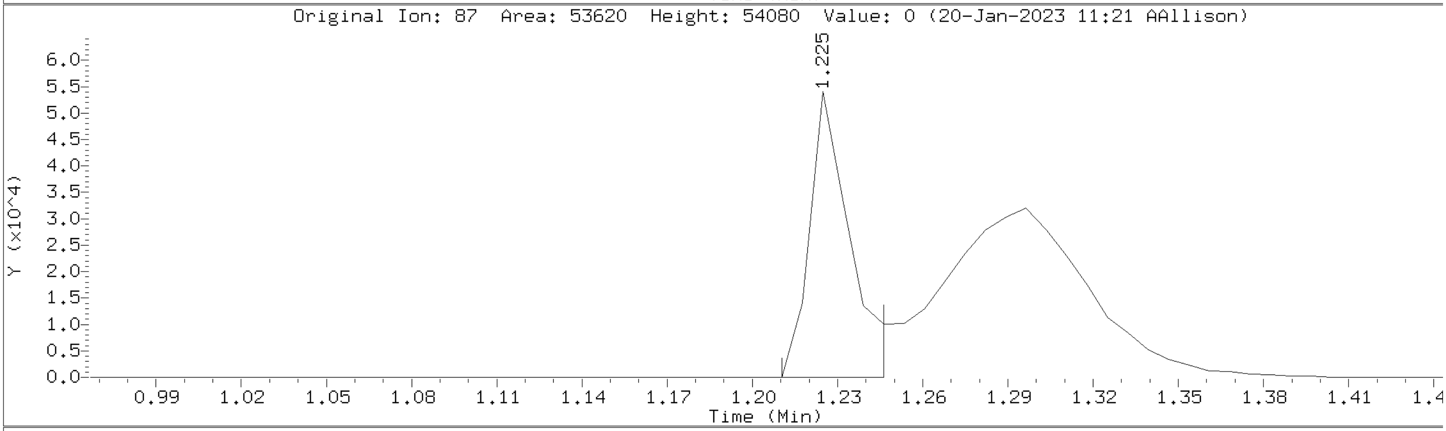
Original Ion: 85 Area: 167031 Height: 169856 Value: 53.61 (20-Jan-2023 11:21 AAllison)



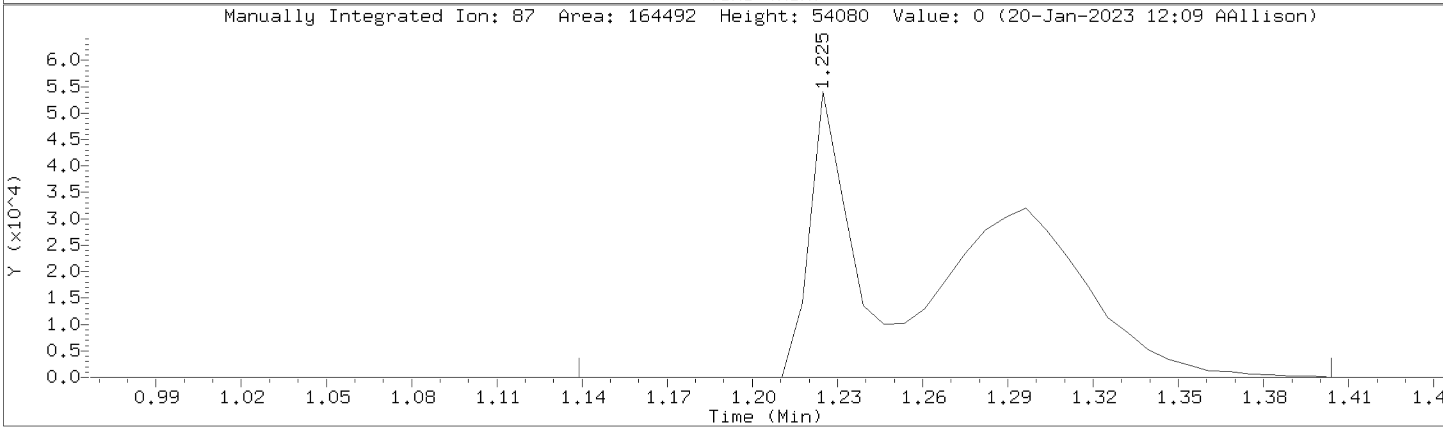
Manually Integrated Ion: 85 Area: 511214 Height: 169764 Value: 154 (20-Jan-2023 12:09 AAllison)



Original Ion: 87 Area: 53620 Height: 54080 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 87 Area: 164492 Height: 54080 Value: 0 (20-Jan-2023 12:09 AAllison)



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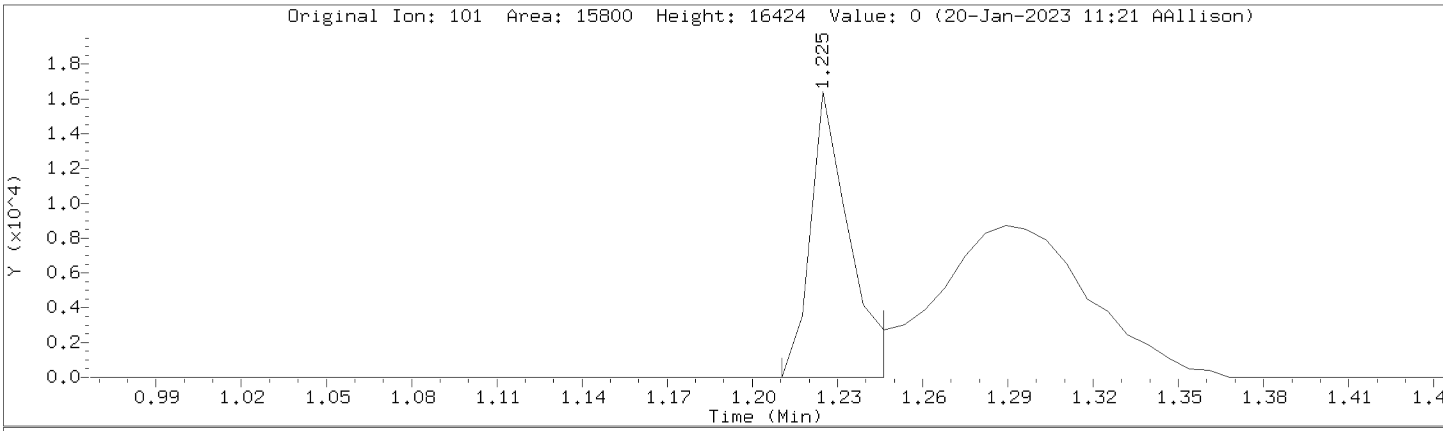
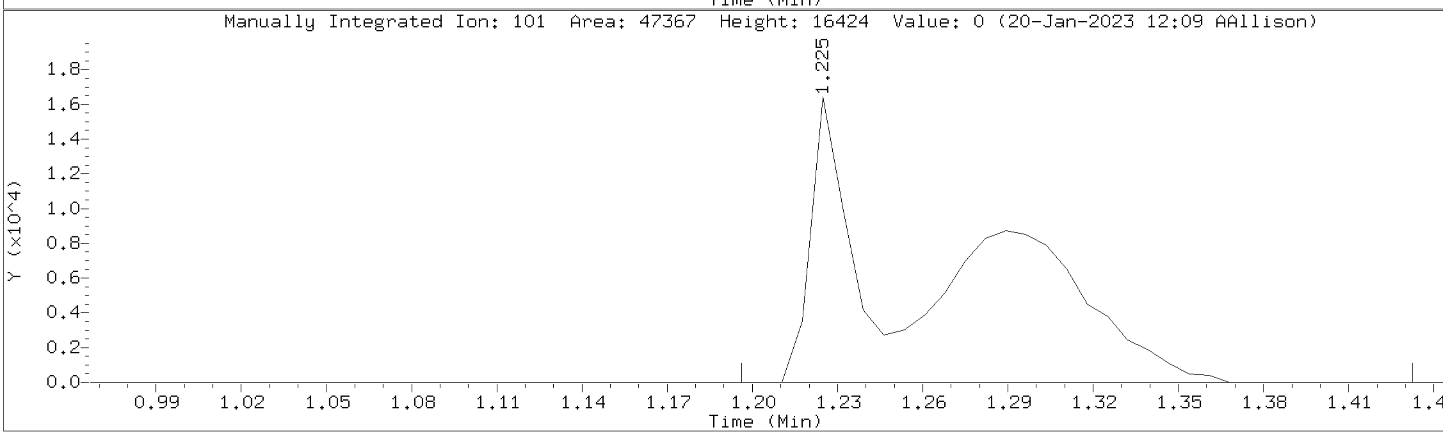
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8





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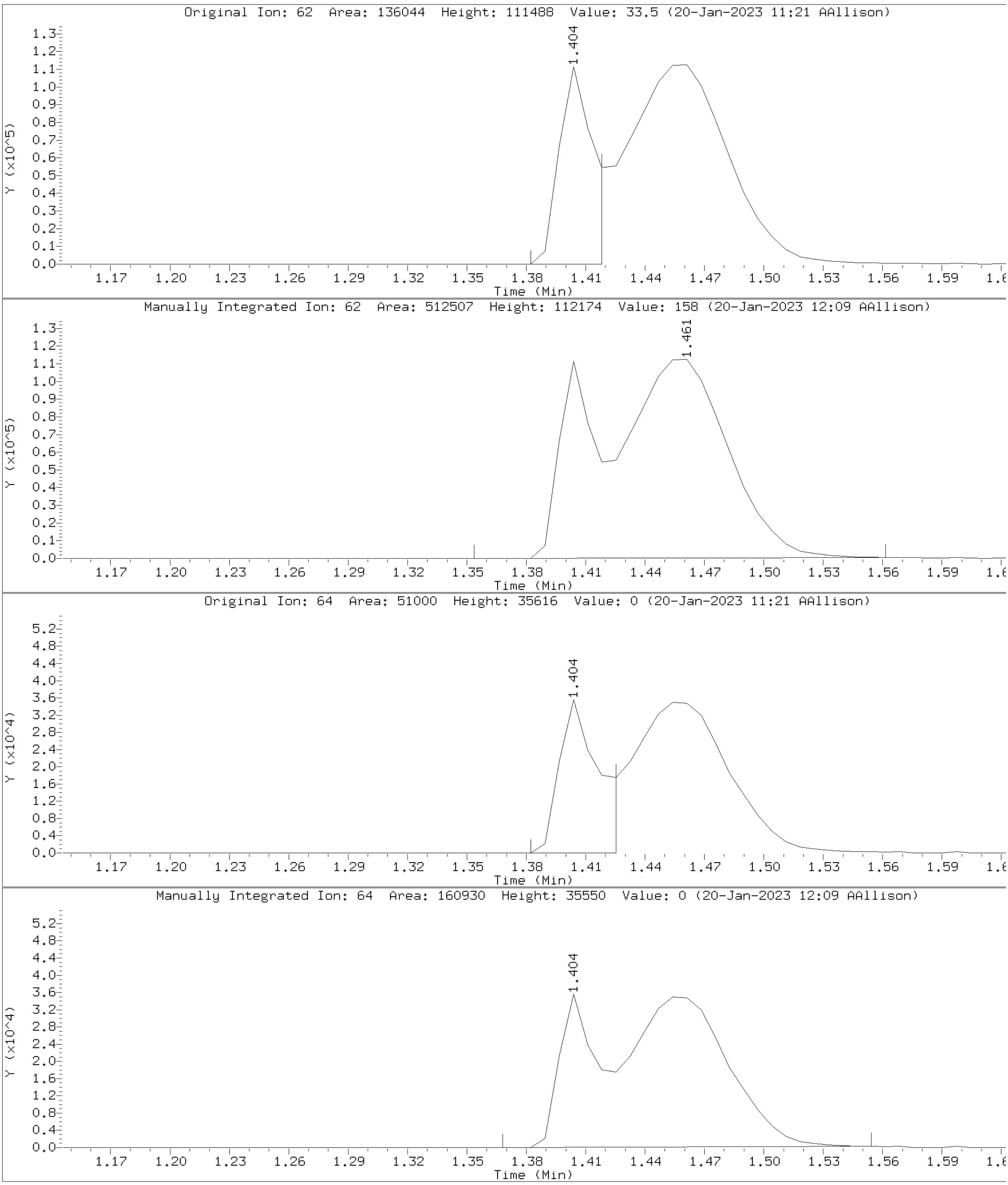
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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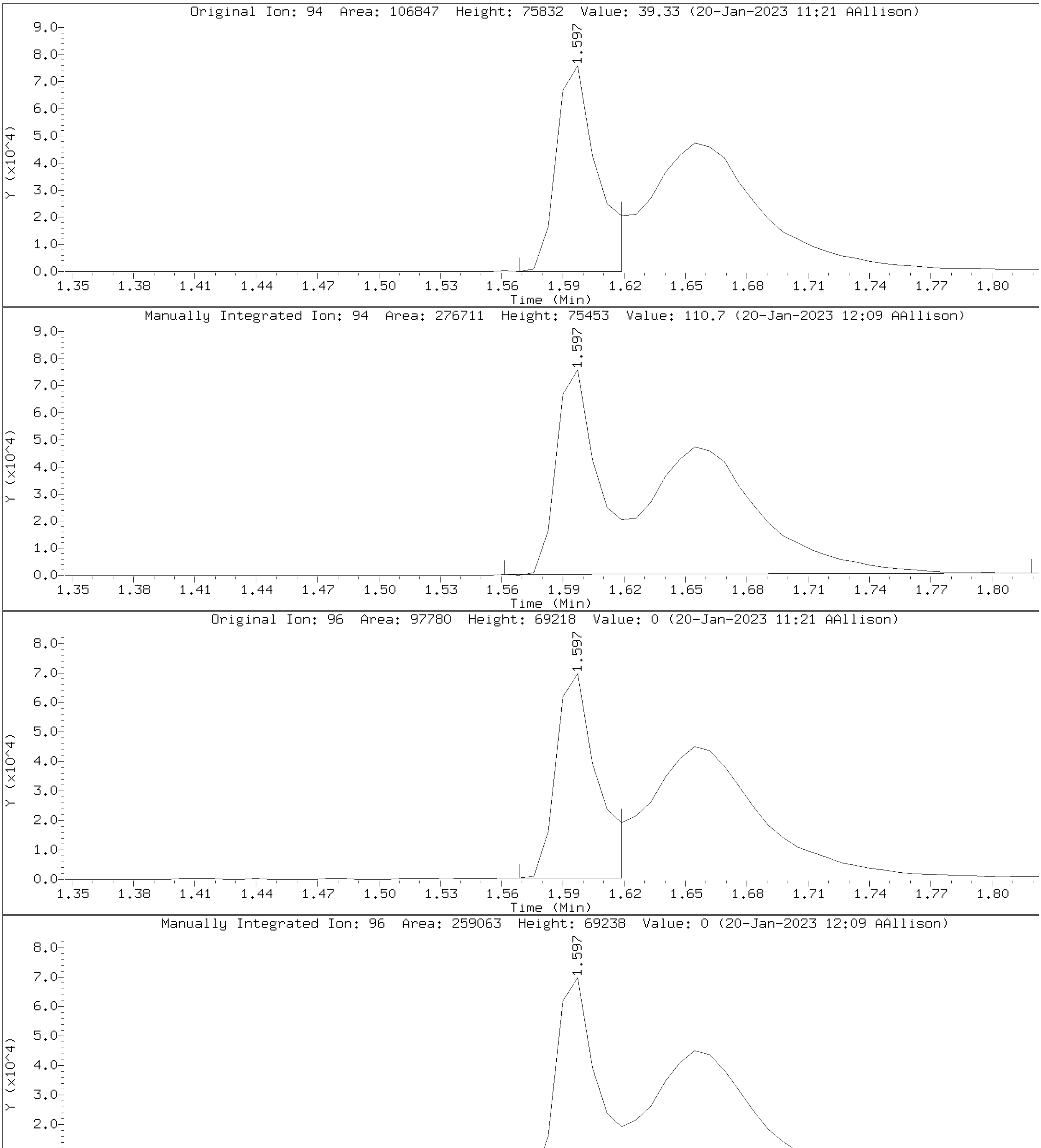
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9



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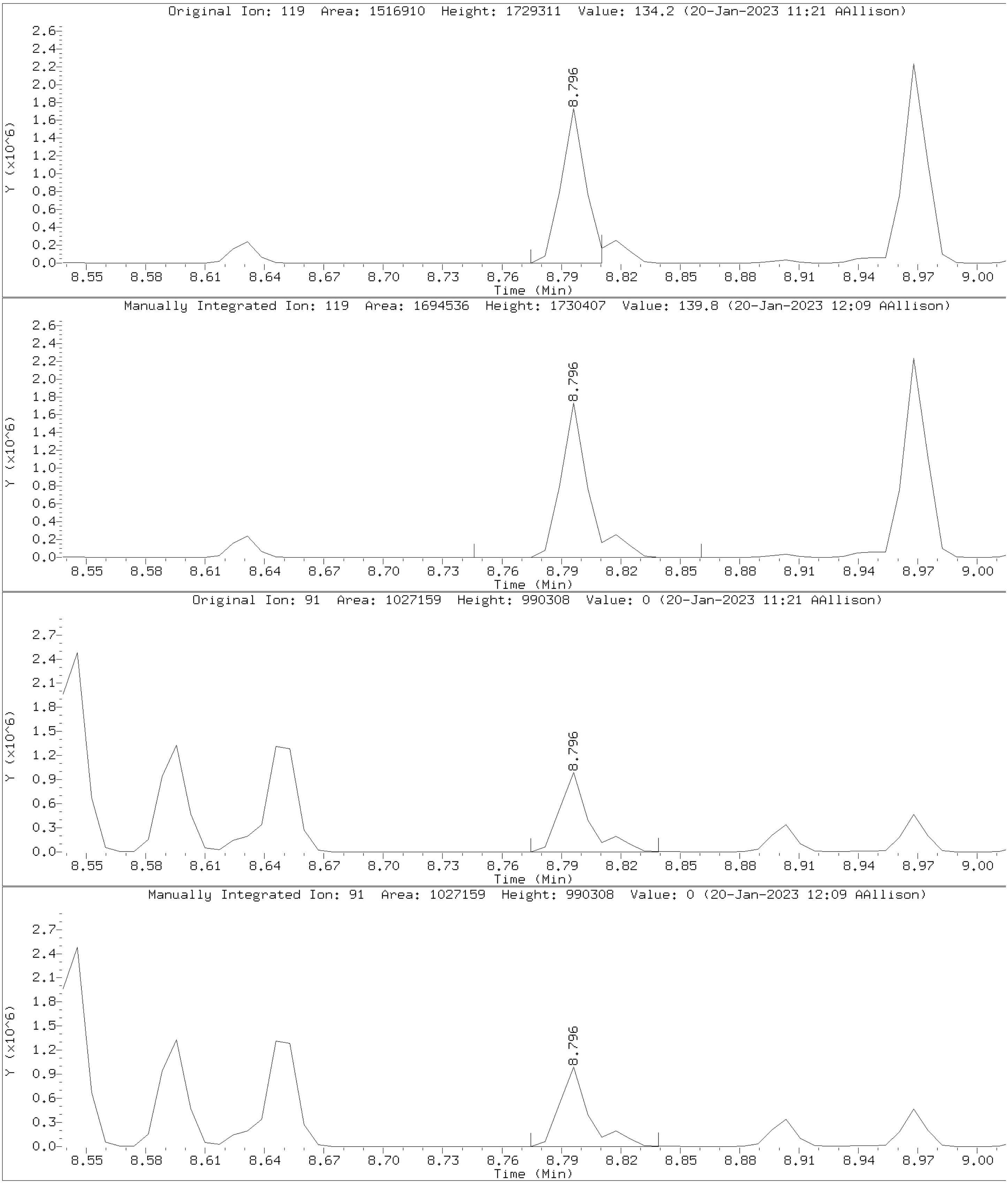
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6



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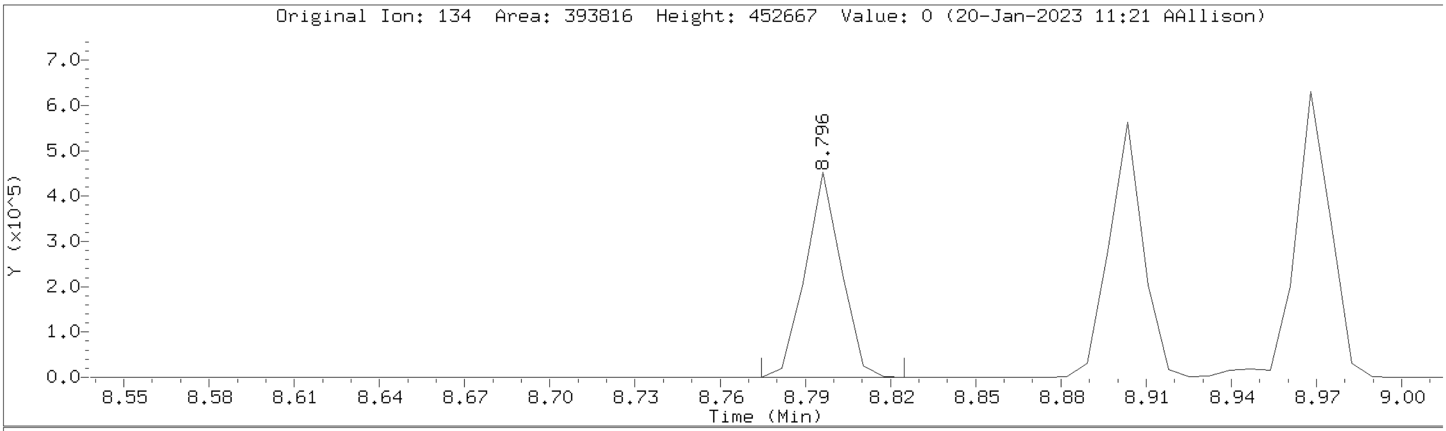
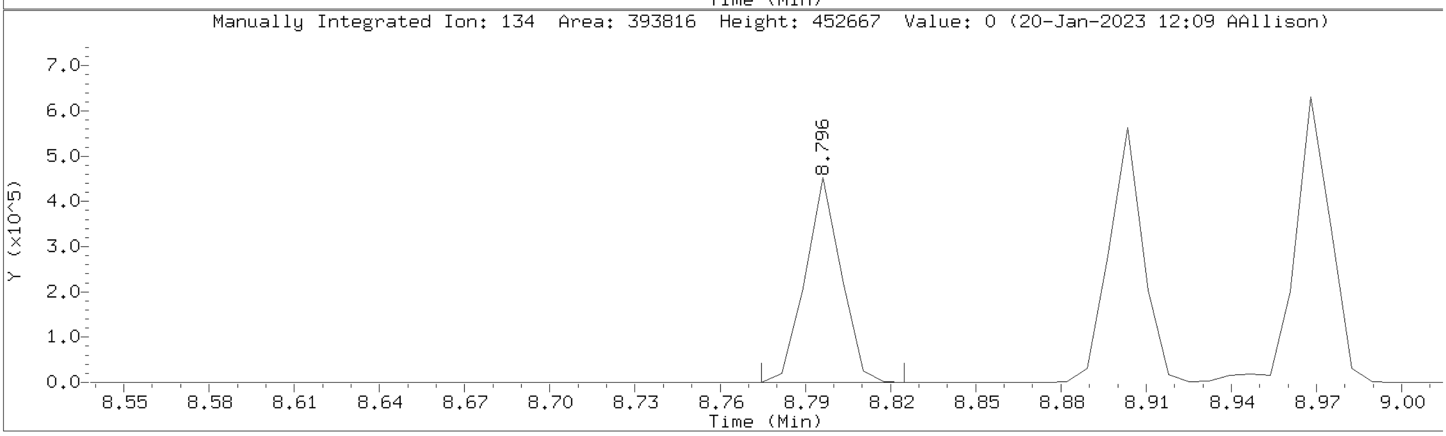
Injection Date: 19-JAN-2023 18:13
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL8





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\a12.d
Lab Smp Id: 8260-CAL9 Client Smp ID: 8260-CAL9
Inj Date : 19-JAN-2023 18:43
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal9,335785:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 Calibration Sample, Level: 9
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	1.224	1.218	(0.239)	1039786	300.000	299(M)	LT
2 Chloromethane	50	1.432	1.397	(0.279)	980568	300.000	260	
3 Vinyl Chloride	62	1.461	1.397	(0.285)	1054349	300.000	309(M)	LT
4 Bromomethane	94	1.583	1.597	(0.309)	636445	300.000	249(M)	LT
5 Chloroethane	64	1.647	1.655	(0.321)	553333	300.000	262	
6 Trichlorofluoromethane	101	1.798	1.805	(0.351)	1462216	300.000	358	
7 Diethyl ether	74	1.984	1.977	(0.387)	511112	300.000	258	
8 Acrolein	56	2.098	2.085	(0.409)	5304269	6000.00	6220	
9 1,1,2trichlorotrifluoroethane	101	2.134	2.134	(0.416)	938331	300.000	335	
10 1,1-Dichloroethene	96	2.148	2.149	(0.419)	848061	300.000	291	
11 Acetone	43	2.206	2.192	(0.430)	2110830	1500.00	1330	
12 Iodomethane	142	2.277	2.271	(0.444)	960956	300.000	349	
13 Carbon Disulfide	76	2.320	2.321	(0.453)	2354572	300.000	270	
14 Acetonitrile	39	2.421	2.407	(0.472)	880667	1500.00	947	
15 allyl chloride	41	2.421	2.407	(0.472)	1756340	300.000	223(M)	NI
16 Methyl Acetate	43	2.435	2.421	(0.475)	5588087	1500.00	1440	
17 Methylene Chloride	84	2.521	2.507	(0.492)	861533	300.000	208	
18 tert-Butyl Alcohol	59	2.614	2.586	(0.510)	688171	1500.00	1100	
19 Acrylonitrile	53	2.750	2.722	(0.536)	2683032	1500.00	1470	
20 Methyl-tert-butyl ether	73	2.736	2.722	(0.534)	2507293	300.000	287	
21 1,2-Dichloroethene (trans)	96	2.736	2.729	(0.534)	910713	300.000	270	
22 n-Hexane	57	2.958	2.951	(0.577)	1367597	300.000	262	
23 1,1-Dichloroethane	63	3.144	3.130	(0.613)	1487586	300.000	284	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.194	3.166	(0.623)	12215658	1200.00	1320	
	25 Diisopropyl ether	45	3.187	3.166	(0.622)	3214347	300.000	289	
	26 chloroprene	53	3.230	3.209	(0.630)	1357630	300.000	296	
	27 Ethyl-tert-butyl ether	59	3.588	3.567	(0.700)	2569384	300.000	282	
	28 2,2-Dichloropropane	77	3.789	3.768	(0.739)	1128848	300.000	272	
	29 1,2-Dichloroethene (cis)	96	3.803	3.775	(0.742)	983395	300.000	260	
	30 2-Butanone	43	3.846	3.811	(0.750)	3132360	1500.00	1180	
	31 Ethyl Acetate	88	3.903	3.868	(0.761)	295673	1500.00	1520	
	32 Propionitrile	54	3.954	3.911	(0.771)	990618	1500.00	1320(M)	GT
	33 Methacrylonitrile	41	4.133	4.090	(0.806)	5938776	1500.00	1360	
	34 Bromochloromethane	49	4.104	4.075	(0.800)	734939	300.000	268	
	35 Tetrahydrofuran	42	4.161	4.133	(0.811)	2874710	1500.00	1320	
	36 Chloroform	83	4.204	4.176	(0.820)	1483307	300.000	279	
$	37 Dibromofluoromethane (S)	113	4.391	4.362	(0.856)	132941	50.0000	49.2	
	38 1,1,1-Trichloroethane	97	4.391	4.370	(0.856)	1404572	300.000	300	
	39 Cyclohexane	56	4.433	4.413	(0.865)	1591553	300.000	275	
	40 Carbon Tetrachloride	117	4.570	4.549	(0.891)	1381891	300.000	326	
	41 1,1-Dichloropropene	75	4.577	4.563	(0.892)	1051972	300.000	281	
	42 Isobutyl alcohol	43	4.784	4.749	(0.933)	307206	1500.00	1220	
	43 Benzene	78	4.820	4.799	(0.940)	3426631	300.000	284	
	44 1,2-Dichloroethane	62	4.863	4.842	(0.948)	1088210	300.000	282	
	45 2,2,4-Trimethylpentane	57	4.885	4.864	(0.953)	2584889	300.000	302	
	46 tert-Amylmethyl ether	73	4.949	4.928	(0.965)	2637859	300.000	285	
*	47 Fluorobenzene	96	5.128	5.107	(1.000)	531457	50.0000		
	48 Trichloroethene	95	5.515	5.494	(1.075)	895859	300.000	290	
	49 Methylcyclohexane	55	5.687	5.673	(1.109)	1201861	300.000	260	
	50 1,2-Dichloropropane	63	5.766	5.745	(1.124)	870467	300.000	275	
	51 Dibromomethane	93	5.888	5.867	(1.148)	522628	300.000	271	
	52 1,4-Dioxane	88	5.923	5.902	(1.155)	122386	6000.00	6200	
	53 Methyl methacrylate	69	5.902	5.881	(1.151)	798372	300.000	279	
	54 Bromodichloromethane	83	6.052	6.031	(1.180)	1114055	300.000	290	
	55 2-Chloroethyl vinyl ether	63	6.375	6.347	(0.823)	3494202	1500.00	1450	
	56 cis-1,3-Dichloropropene	75	6.489	6.476	(0.838)	1371930	300.000	277	
	57 4-Methyl-2-Pentanone	43	6.647	6.626	(0.858)	7867626	1500.00	1380	
$	58 Toluene-d8	98	6.711	6.698	(0.867)	513608	50.0000	49.2	
	59 Toluene	91	6.769	6.748	(0.874)	4151667	300.000	285	
	60 trans-1,3-Dichloropropene	75	6.962	6.948	(0.899)	1277556	300.000	276	
	61 Ethyl Methacrylate	69	7.034	7.020	(0.908)	1302206	300.000	280	
	62 1,1,2-Trichloroethane	83	7.098	7.084	(0.917)	667218	300.000	284	
	63 Tetrachloroethene	166	7.177	7.163	(0.927)	1183652	300.000	332	
	64 1,3-Dichloropropane	76	7.220	7.206	(0.932)	1263592	300.000	274	
	65 2-Hexanone	43	7.292	7.271	(0.942)	6033223	1500.00	1320	
	66 Dibromochloromethane	129	7.378	7.364	(0.953)	1121027	300.000	334	
	67 1,2-Dibromoethane	107	7.449	7.435	(0.962)	925041	300.000	299	
*	68 Chlorobenzene-d5	117	7.743	7.729	(1.000)	395771	50.0000		
	69 Chlorobenzene	112	7.757	7.751	(1.002)	2687016	300.000	303	
	70 1,1,1,2-Tetrachloroethane	131	7.814	7.801	(1.009)	1024834	300.000	321	
	71 Ethylbenzene	106	7.822	7.815	(1.010)	1451224	300.000	292	
	72 m&p-Xylene	106	7.893	7.887	(1.019)	1855499	300.000	306	
	73 o-Xylene	106	8.122	8.116	(1.049)	1764248	300.000	307	
	74 Styrene	104	8.137	8.122	(1.051)	3155017	300.000	314	
	75 Bromoform	173	8.251	8.238	(0.917)	881382	300.000	322	
	76 Isopropylbenzene	105	8.323	8.316	(1.075)	4590682	300.000	304	
$	77 4-Bromofluorobenzene	95	8.416	8.410	(1.087)	165498	50.0000	49.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.495	8.488	(1.097)	1388982	300.000	278	
79 1,1,2,2-Tetrachloroethane	83	8.502	8.488	(0.945)	1155621	300.000	244	
80 1,2,3-Trichloropropane	110	8.524	8.516	(0.947)	408815	300.000	264	
81 trans-1,4-Dichloro-2-butene	53	8.524	8.516	(1.101)	413964	300.000	266	
82 n-Propylbenzene	91	8.545	8.538	(0.950)	4962282	300.000	253	
83 2-Chlorotoluene	91	8.595	8.589	(0.955)	2702781	300.000	257	
84 1,3,5-Trimethylbenzene	105	8.631	8.624	(0.959)	3586037	300.000	279	
85 4-Chlorotoluene	126	8.653	8.638	(0.962)	1130032	300.000	283	
86 tert-Butylbenzene	119	8.796	8.789	(0.978)	3589820	300.000	286(M)	LT
87 1,2,4-Trimethylbenzene	105	8.817	8.811	(0.980)	3573848	300.000	278	
88 sec-Butylbenzene	105	8.903	8.897	(0.990)	4386920	300.000	281	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	2203730	300.000	321	
90 p-Isopropyltoluene	119	8.968	8.961	(0.997)	4012281	300.000	307	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	210180	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.004	(1.002)	2019817	300.000	293	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	3225888	300.000	272	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	2858050	300.000	268	
95 1,2-Dichlorobenzene	146	9.197	9.190	(1.022)	1790175	300.000	307	
96 Hexachloroethane	201	9.312	9.312	(1.035)	584833	300.000	350	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	252986	300.000	278	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	456510	300.000	246	
99 Hexachlorobutadiene	225	9.999	10.007	(1.111)	285189	300.000	319	
100 Naphthalene	128	10.056	10.064	(1.118)	1279428	300.000	223	
101 1,2,3-Trichlorobenzene	180	10.171	10.179	(1.131)	236112	300.000	227	
102 2,methyl-naphthalene	142	10.637	10.644	(1.182)	47905	300.000	176	
103 1-Methylnaphthalene	142	10.751	10.766	(1.195)	28614	300.000	188	

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\50mvda.i\a011923cal.b\a12.d

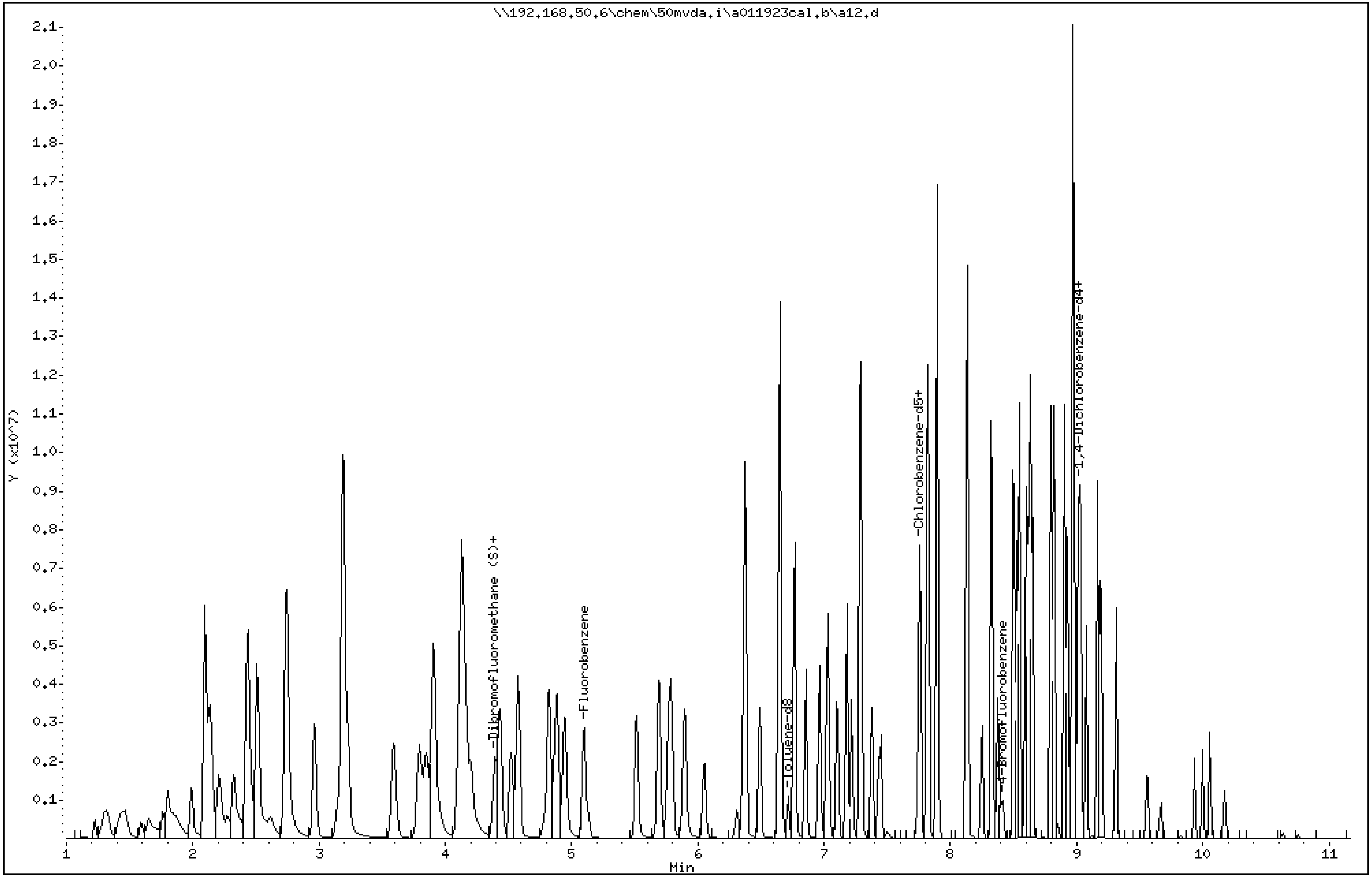
Date : 19-JAN-2023 18:43

Client ID: 8260-CAL9 | Instrument: 50mvda.i

Sample Info: 8260-CAL9,335785:0

Purge Volume: 5.0 | Operator: ala

Column phase: DB-624 | Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a12.d Page 5

Date : 19-JAN-2023 18:43

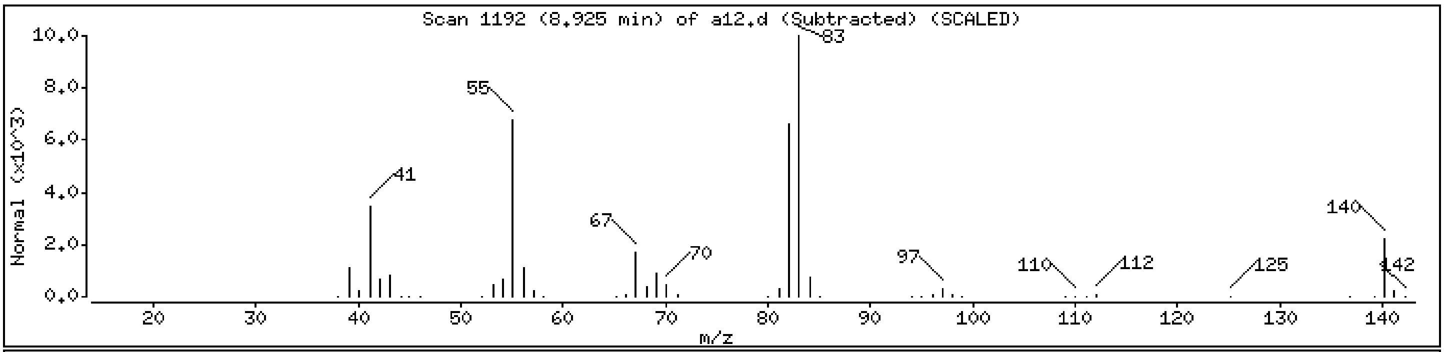
Client ID: 8260-CAL9 Instrument: 50mvda.i

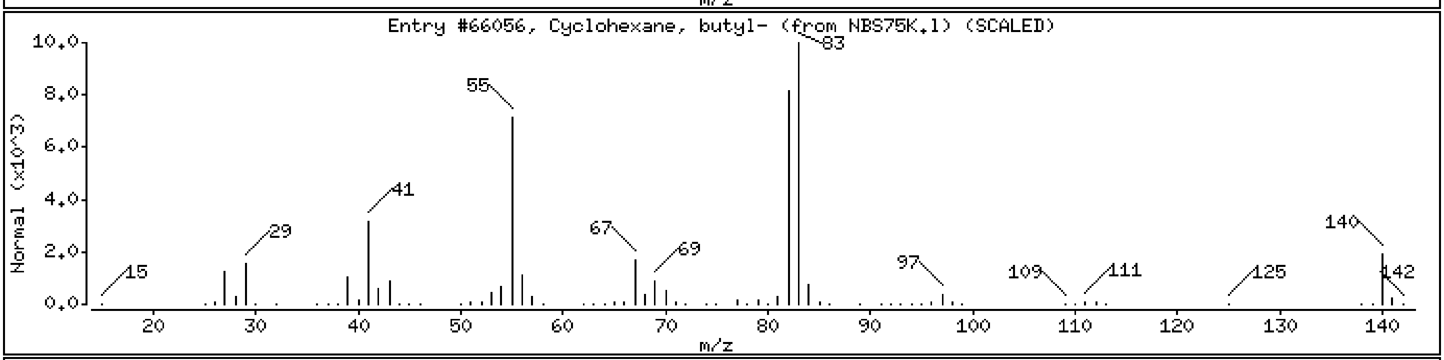
Sample Info: 8260-CAL9,335785:0

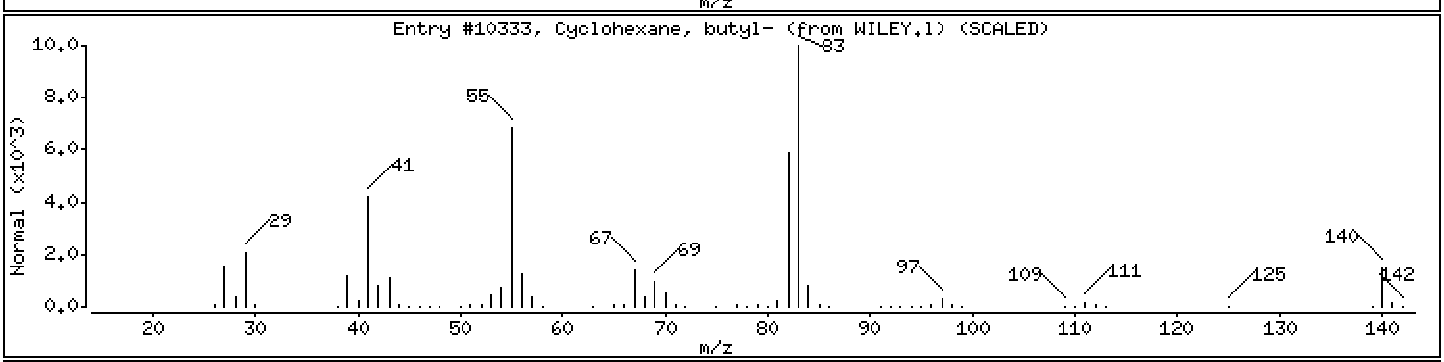
Purge Volume: 5.0 Operator: ala

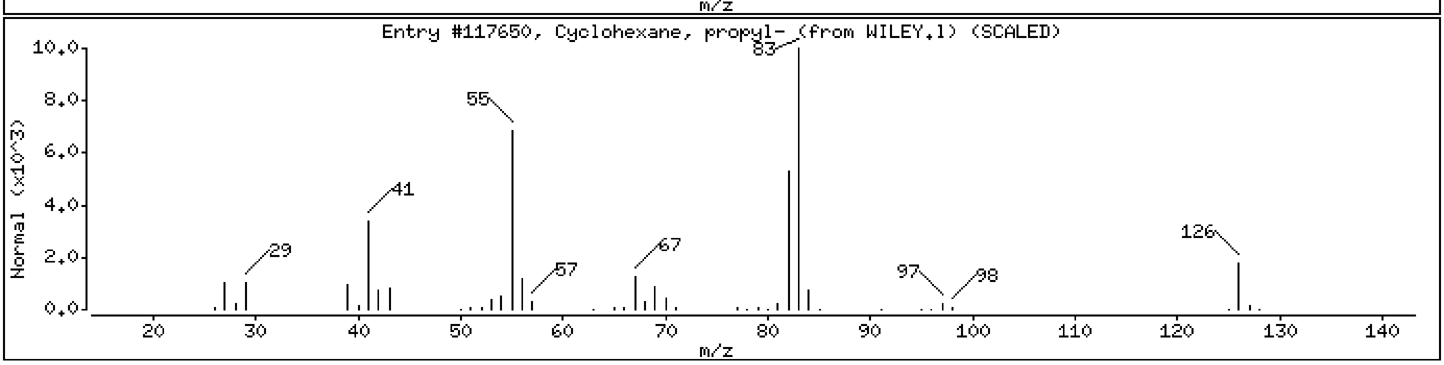
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	97	C10H20	140
Cyclohexane, butyl-	1678-93-9	WILEY.l	10333	83	C10H20	140
Cyclohexane, propyl-	1678-92-8	WILEY.l	117650	80	C9H18	126









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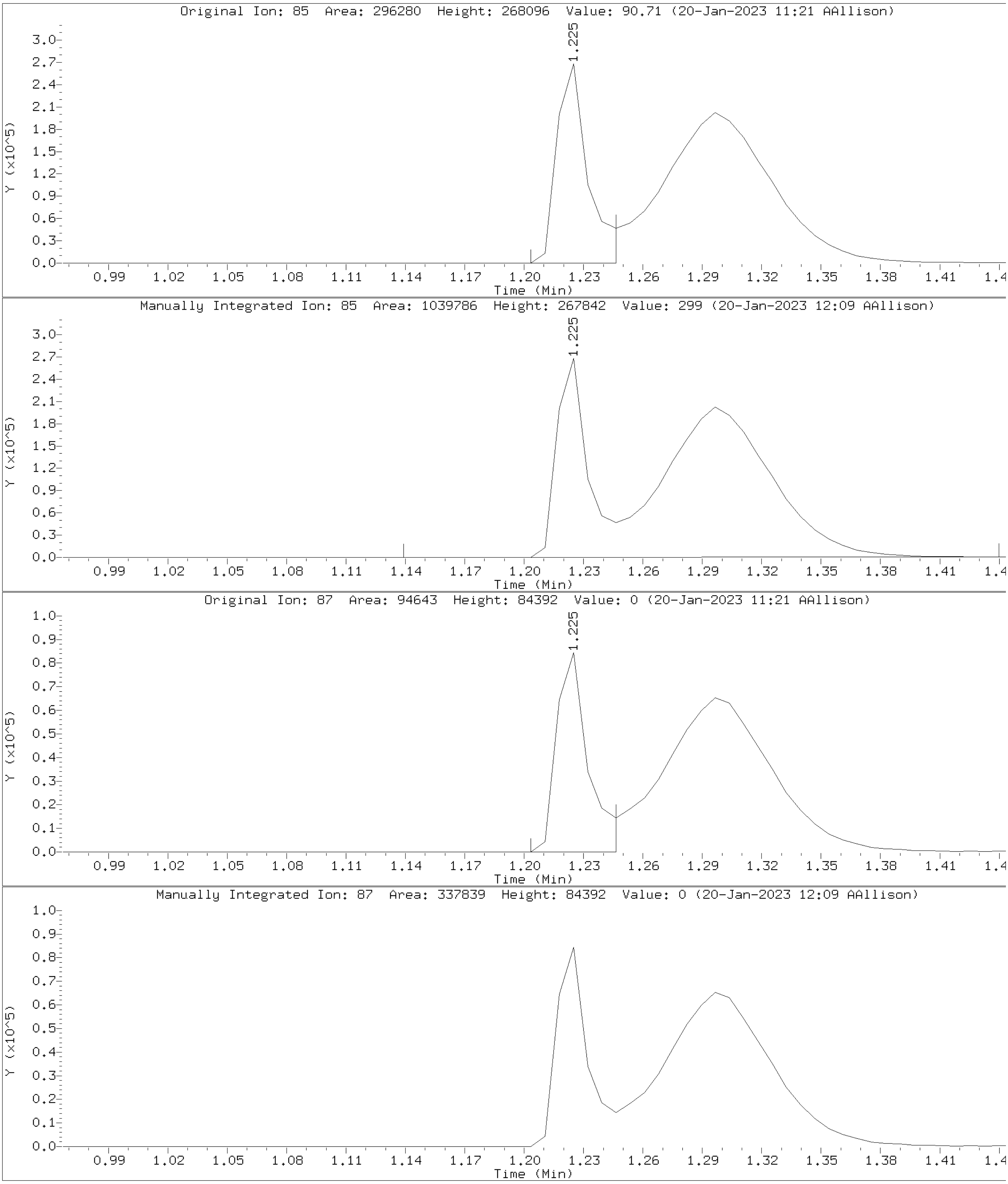
Injection Date: 19-JAN-2023 18:43
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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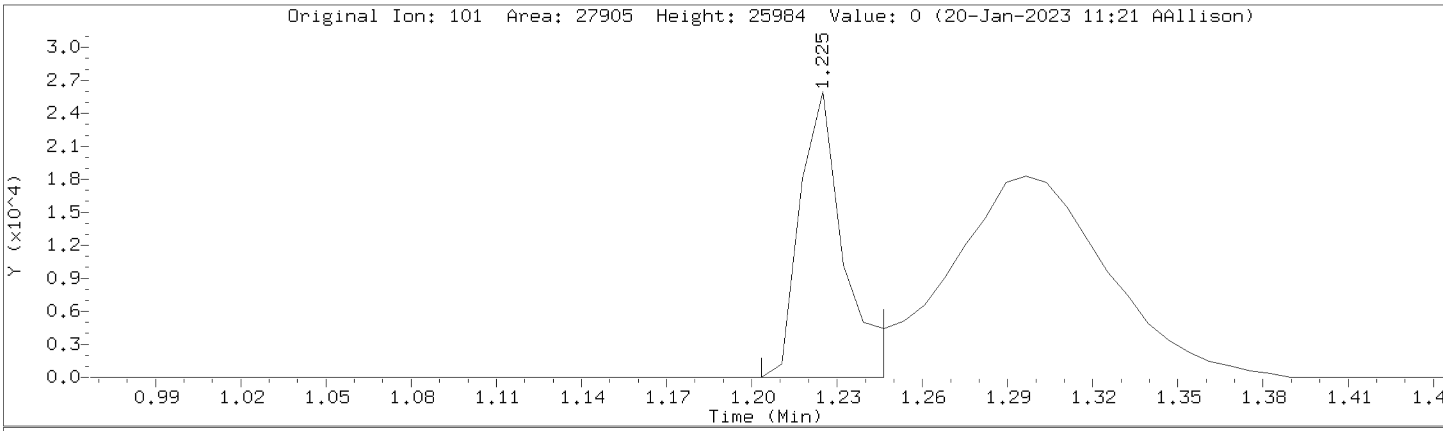
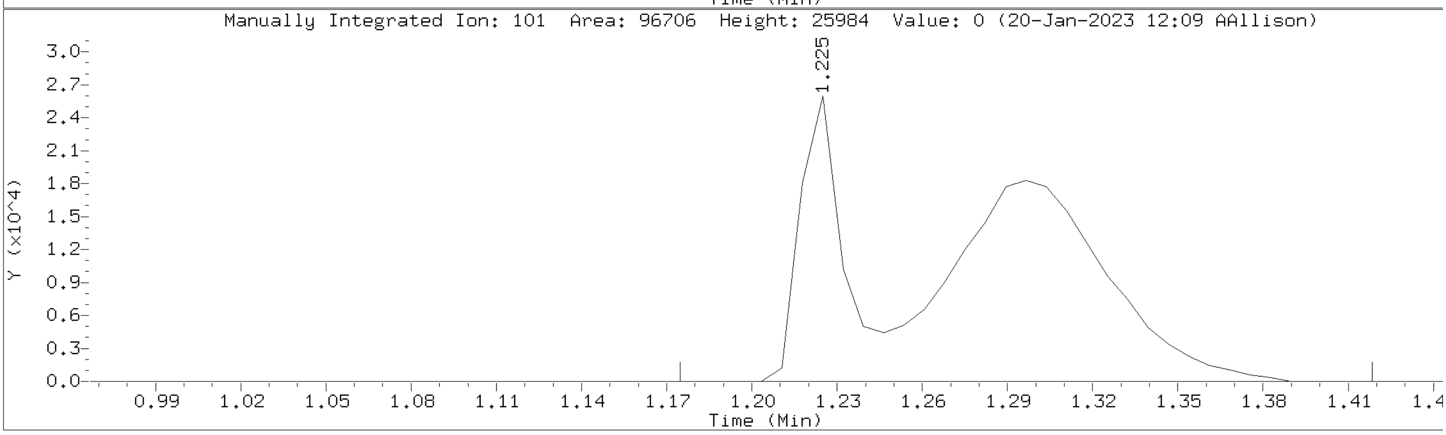
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9





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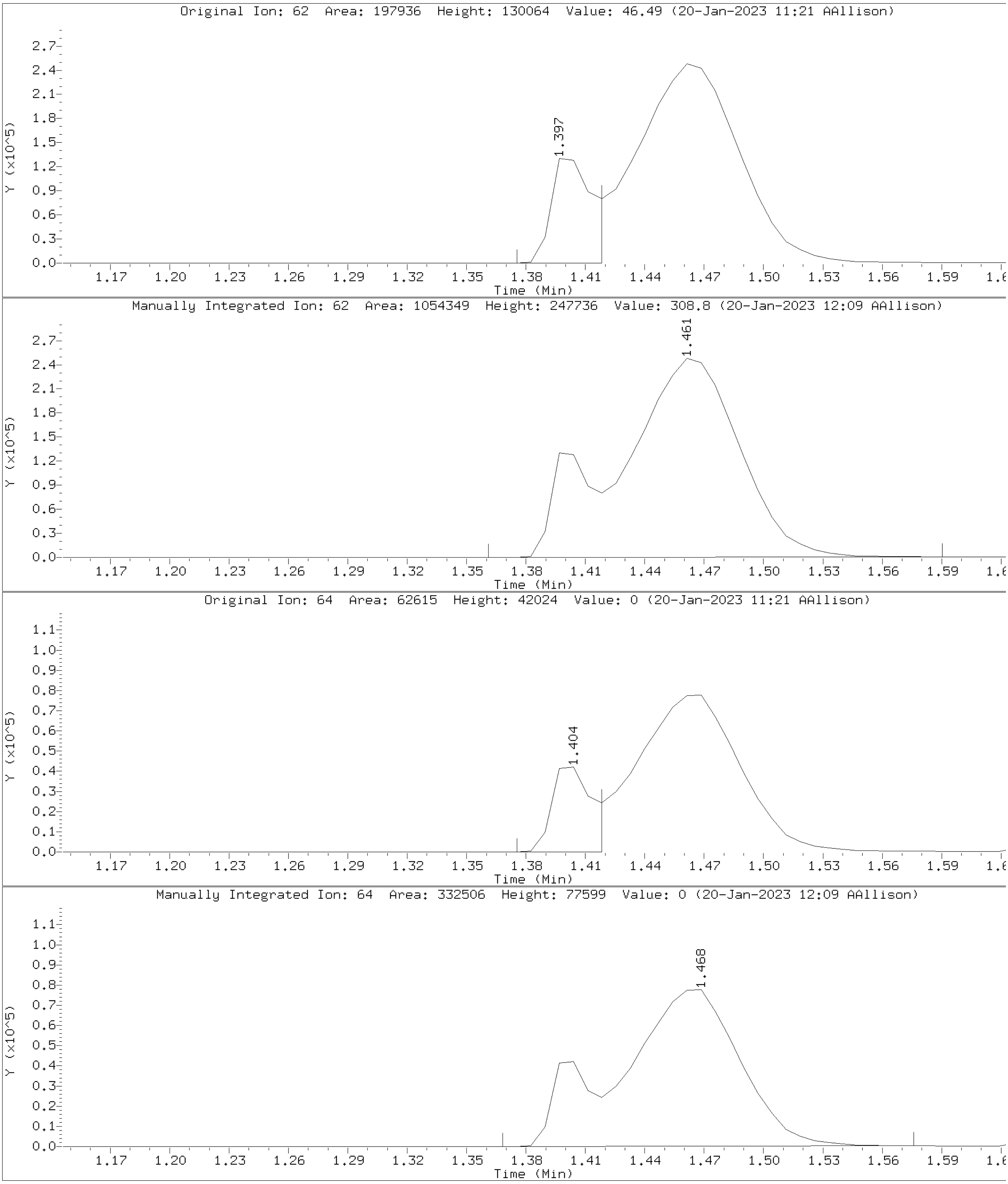
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4



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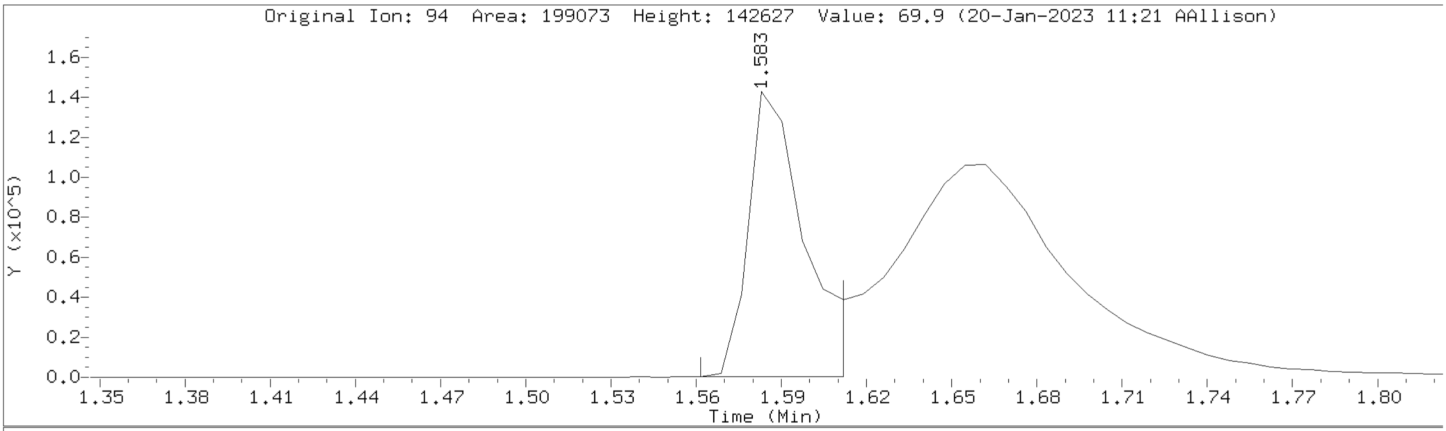
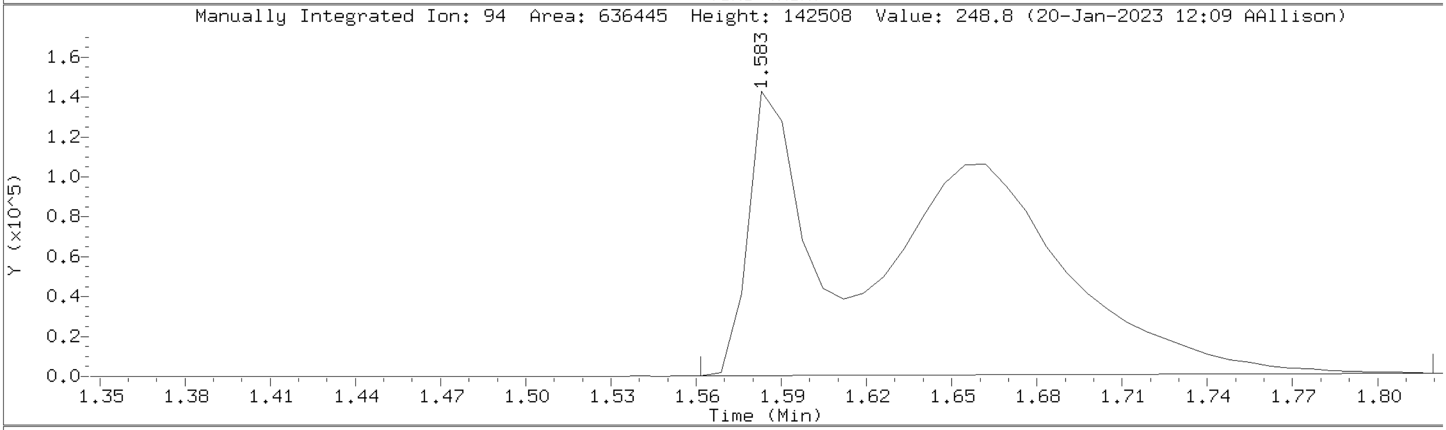
Injection Date: 19-JAN-2023 18:43
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9

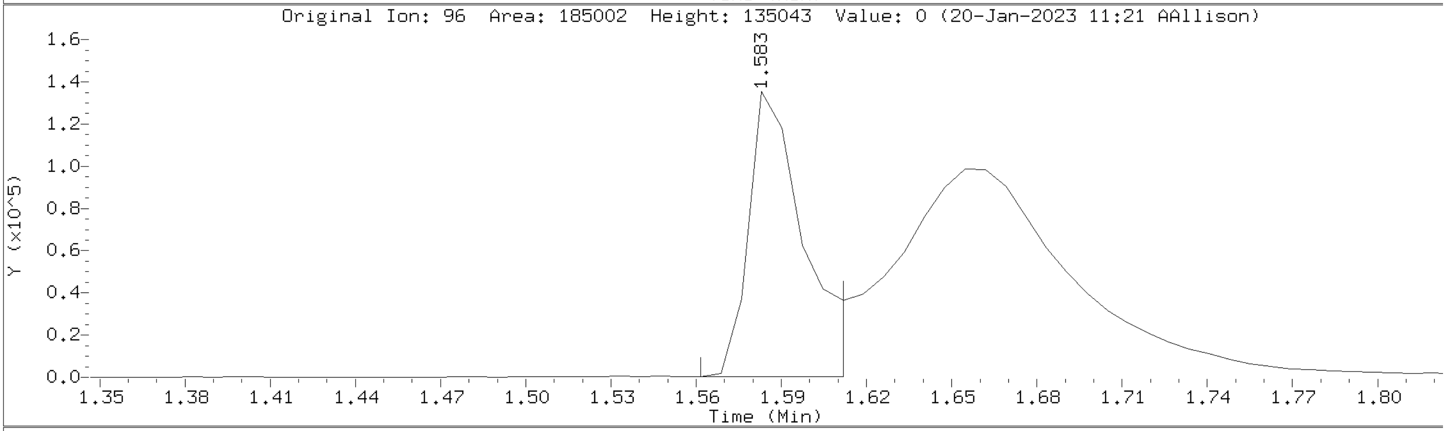
Original Ion: 94 Area: 199073 Height: 142627 Value: 69.9 (20-Jan-2023 11:21 AAllison)



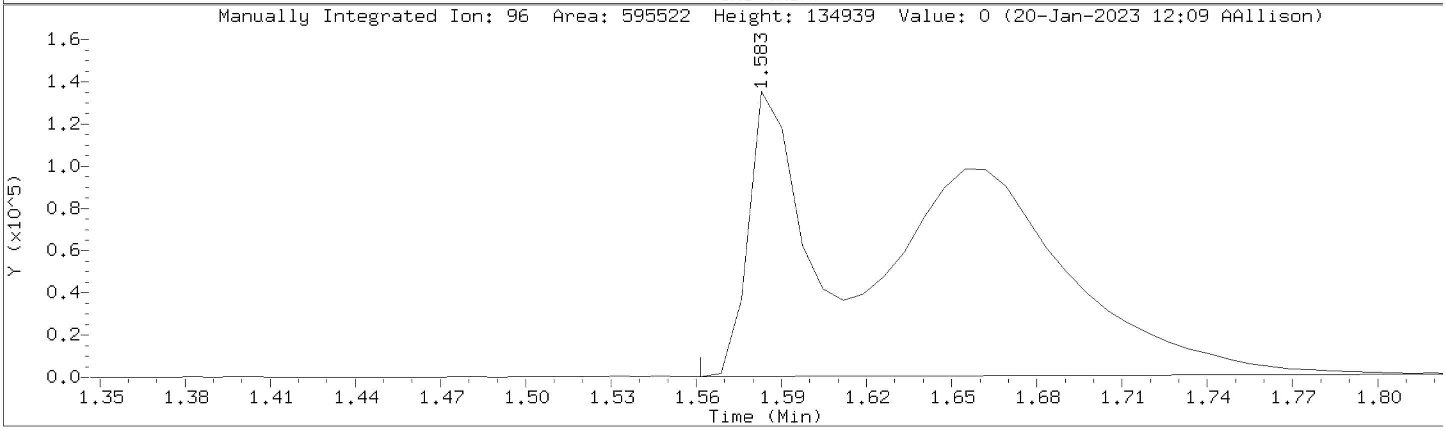
Manually Integrated Ion: 94 Area: 636445 Height: 142508 Value: 248.8 (20-Jan-2023 12:09 AAllison)



Original Ion: 96 Area: 185002 Height: 135043 Value: 0 (20-Jan-2023 11:21 AAllison)



Manually Integrated Ion: 96 Area: 595522 Height: 134939 Value: 0 (20-Jan-2023 12:09 AAllison)



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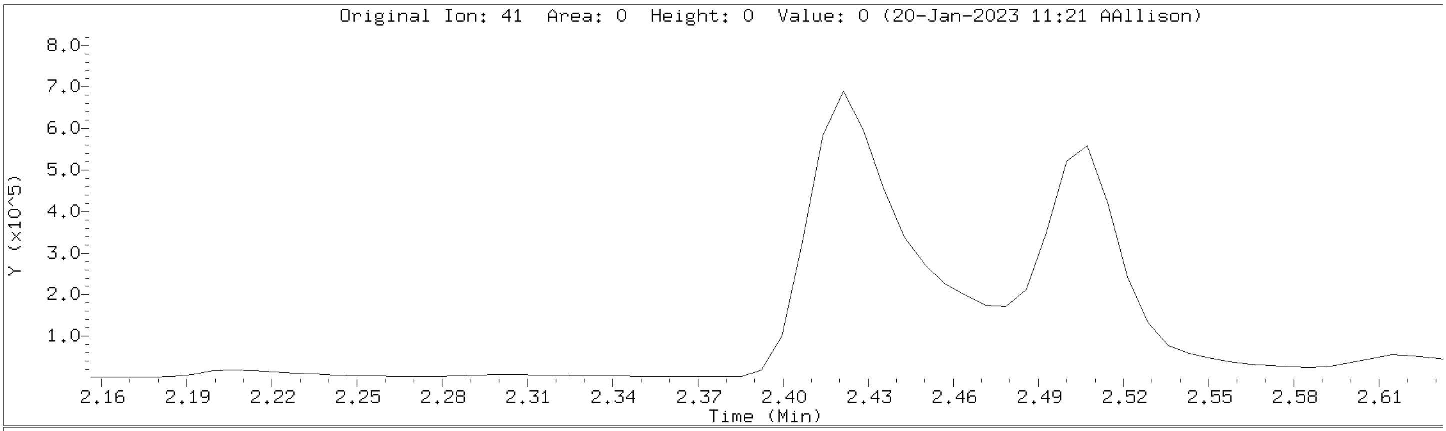
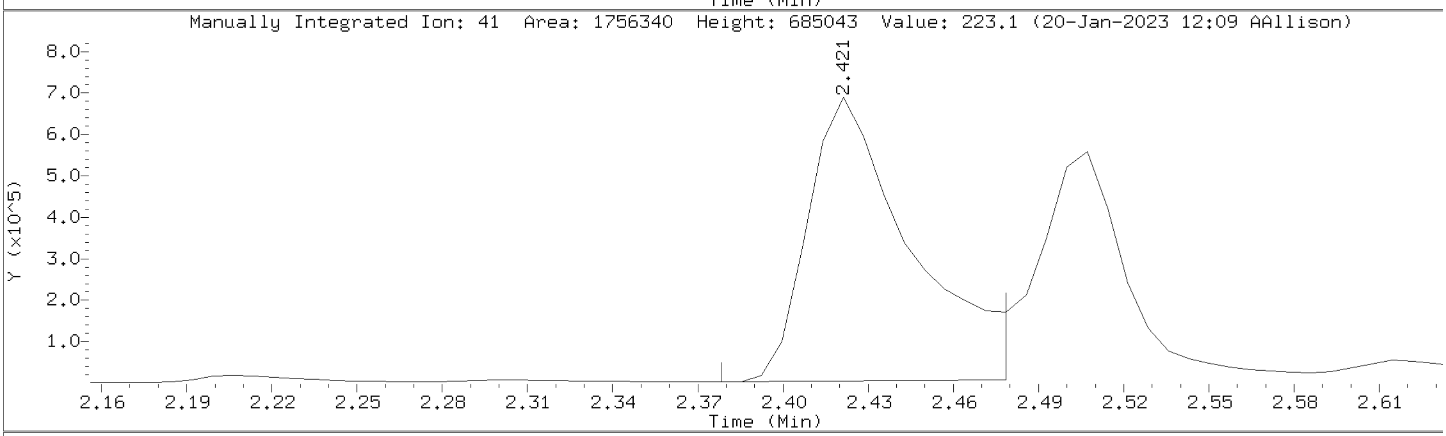
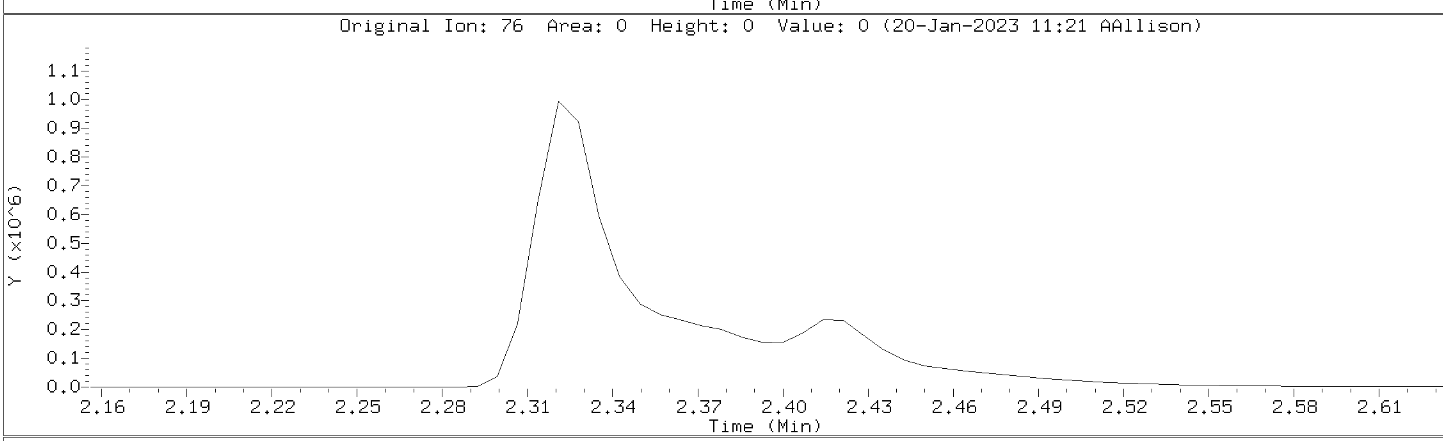
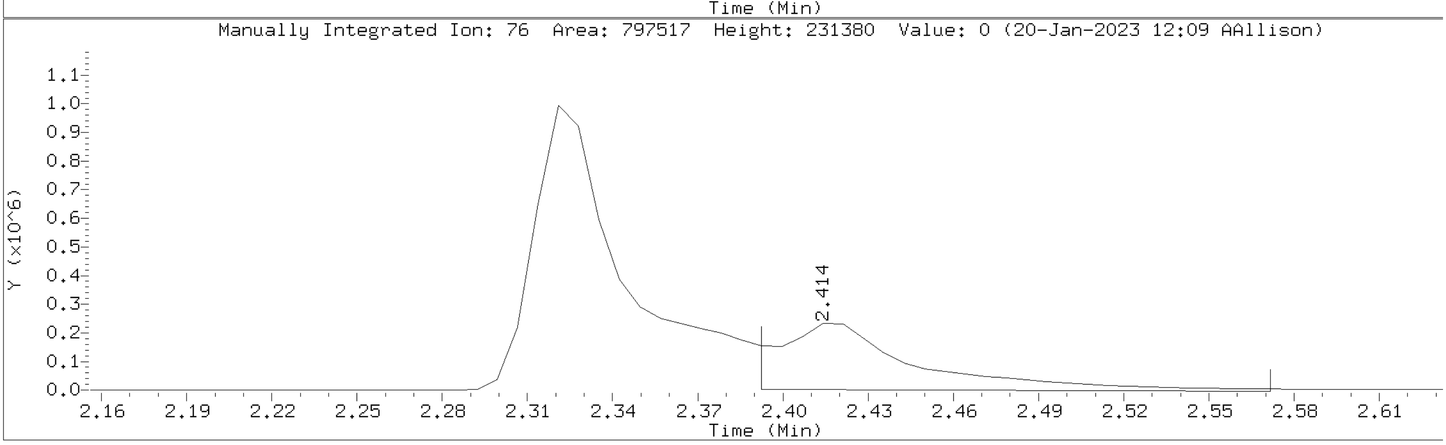
Injection Date: 19-JAN-2023 18:43
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: allyl chloride   Review Code: NI
CAS Number: 107-05-1









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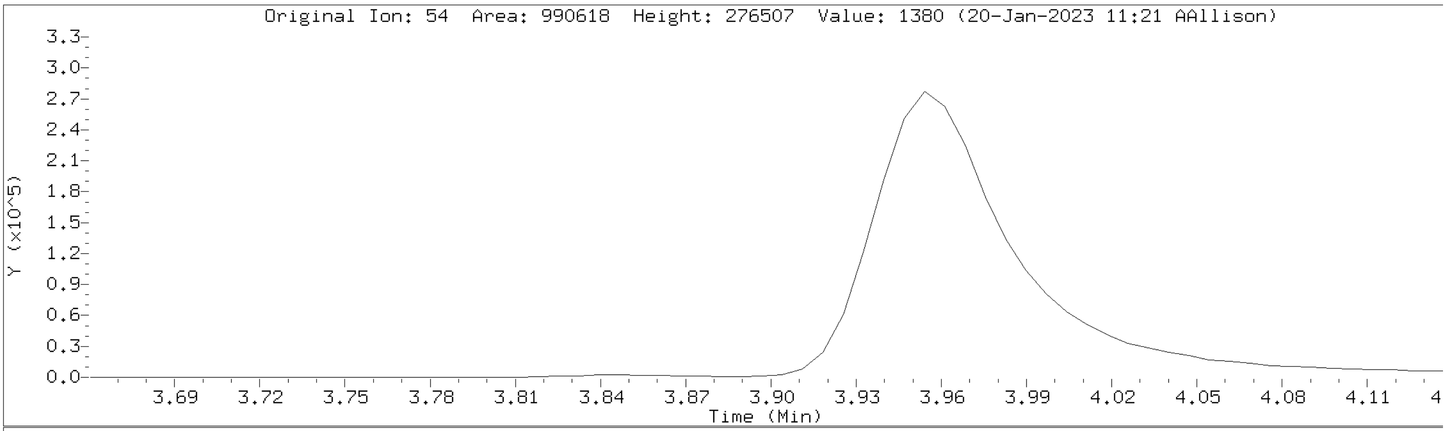
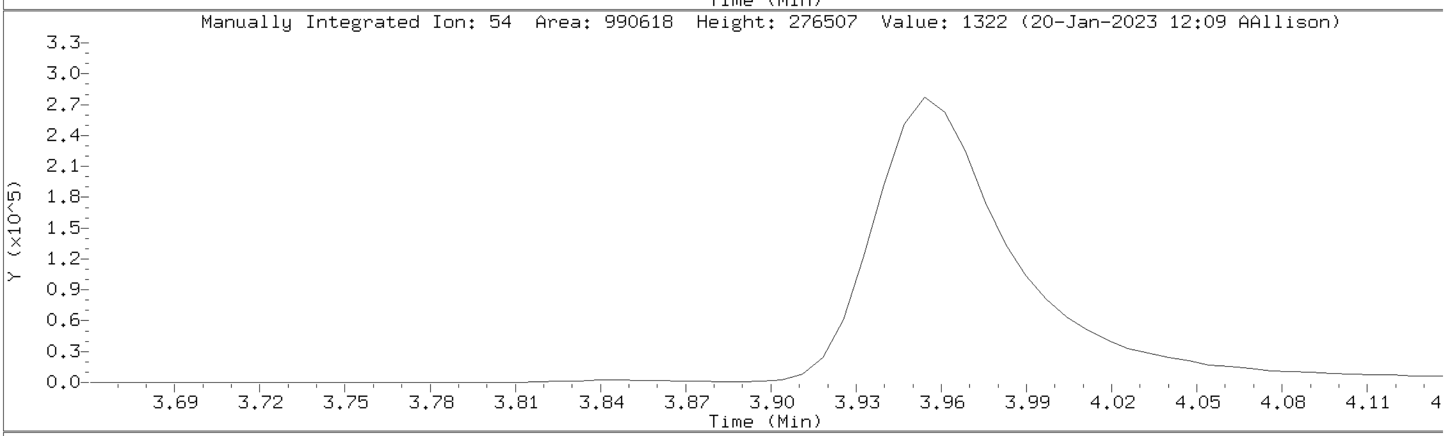
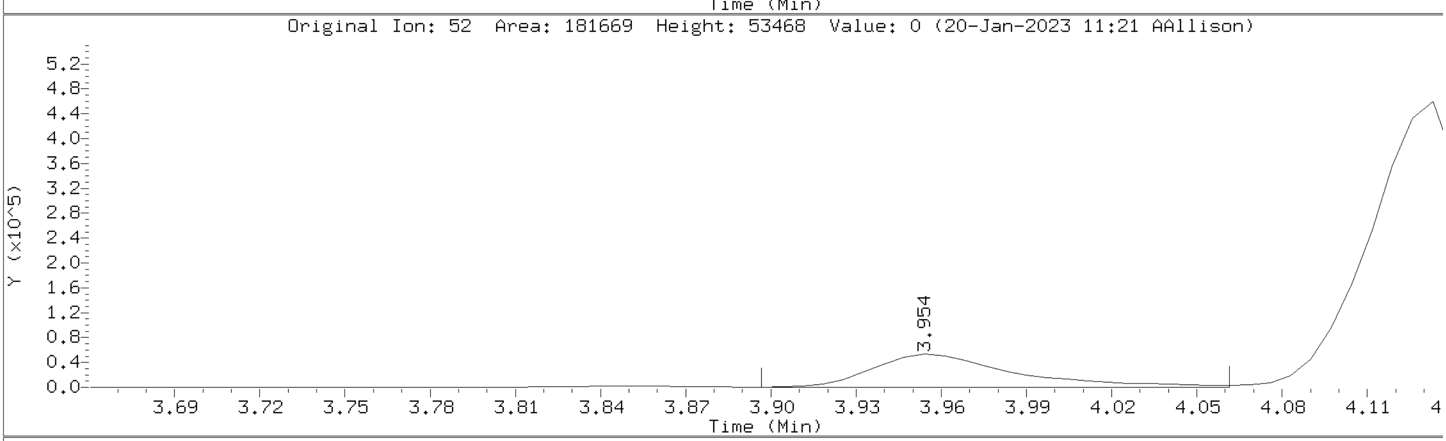
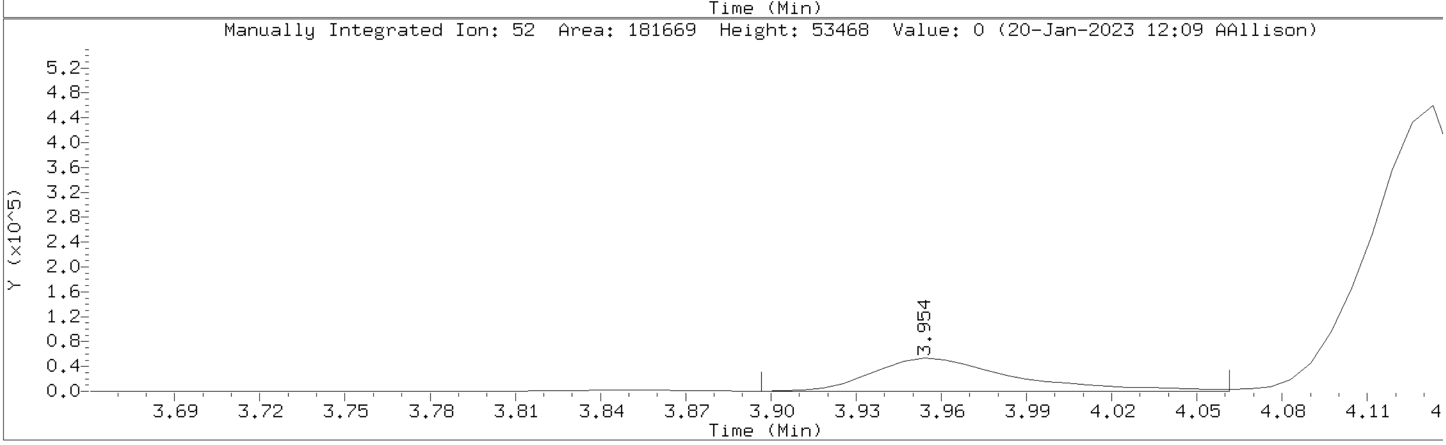
Injection Date: 19-JAN-2023 18:43
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: Propionitrile   Review Code: GT
CAS Number: 107-12-0









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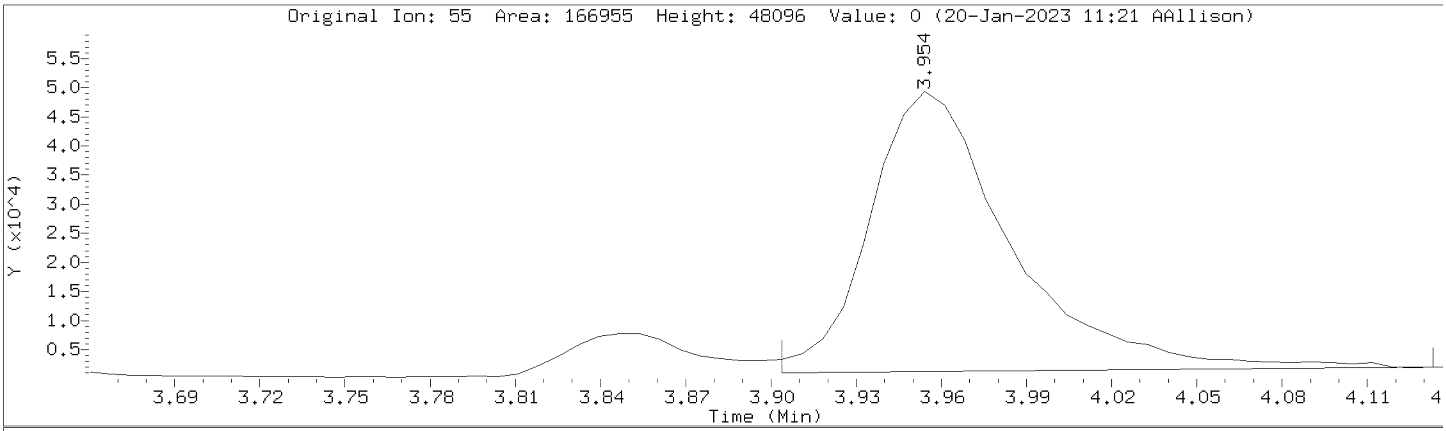
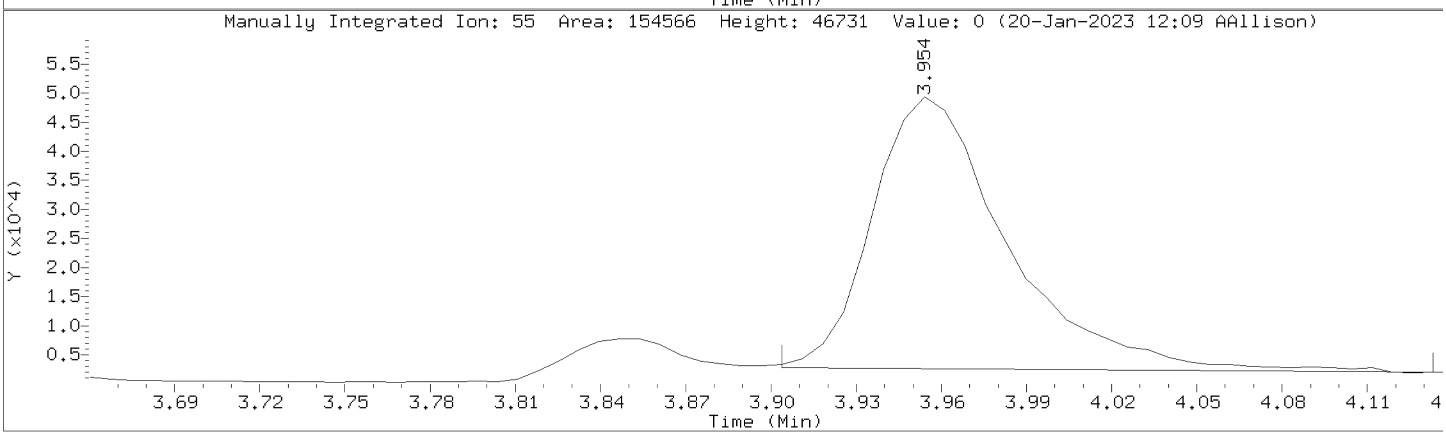
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9





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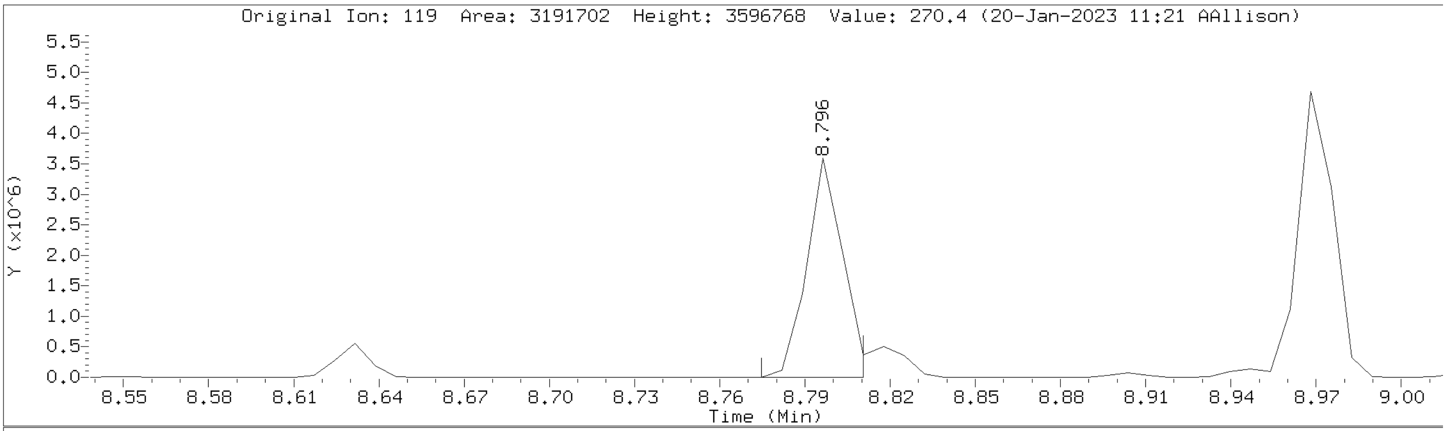
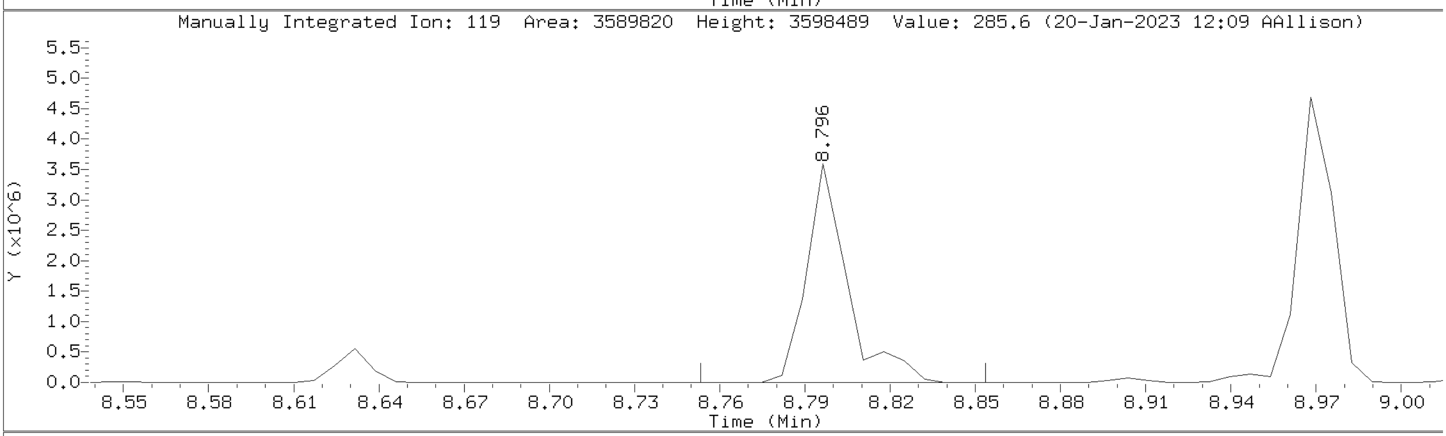
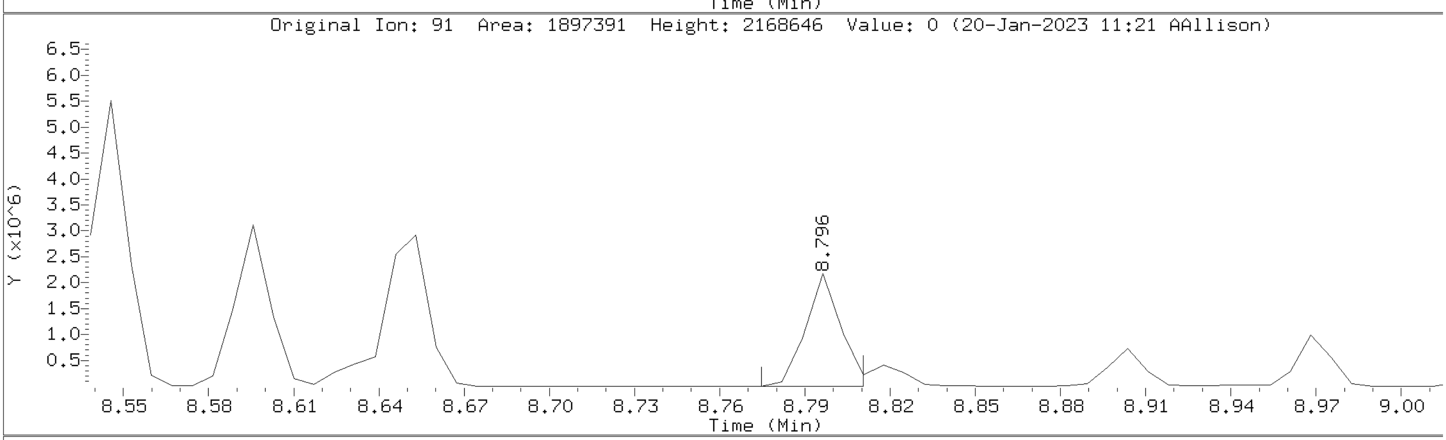
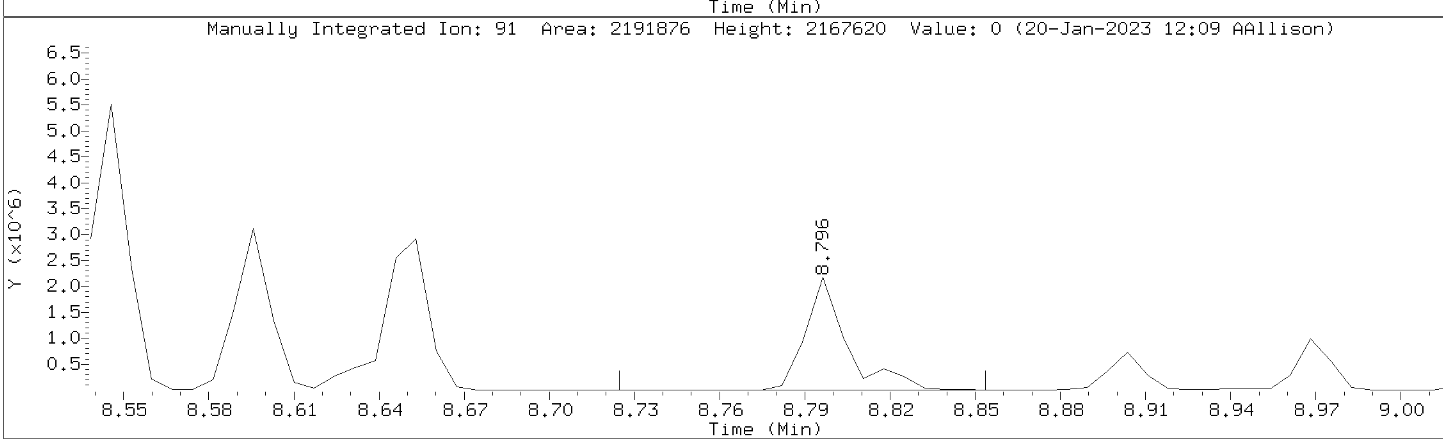
Injection Date: 19-JAN-2023 18:43
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6









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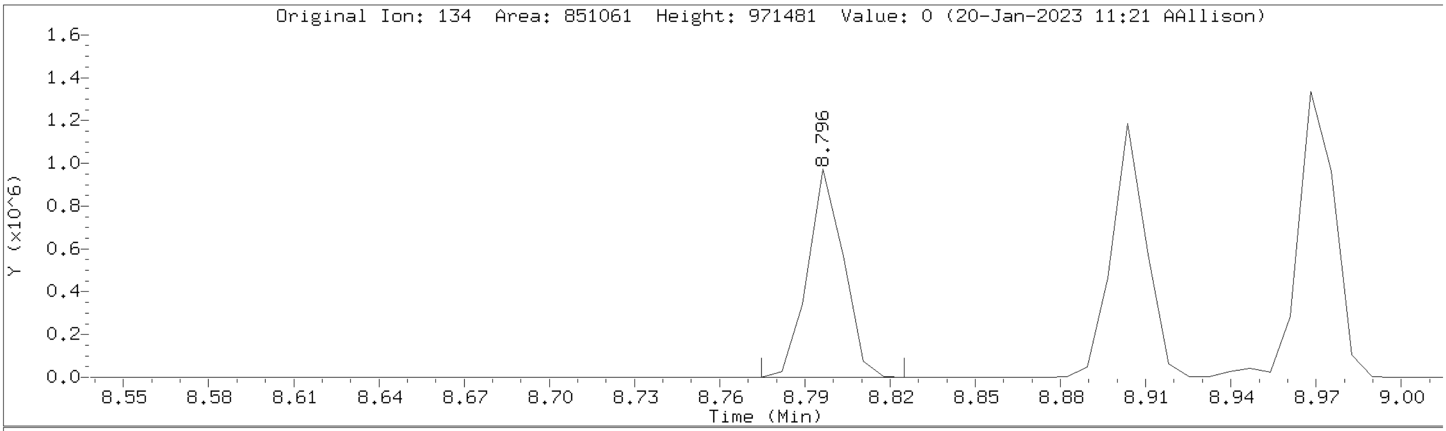
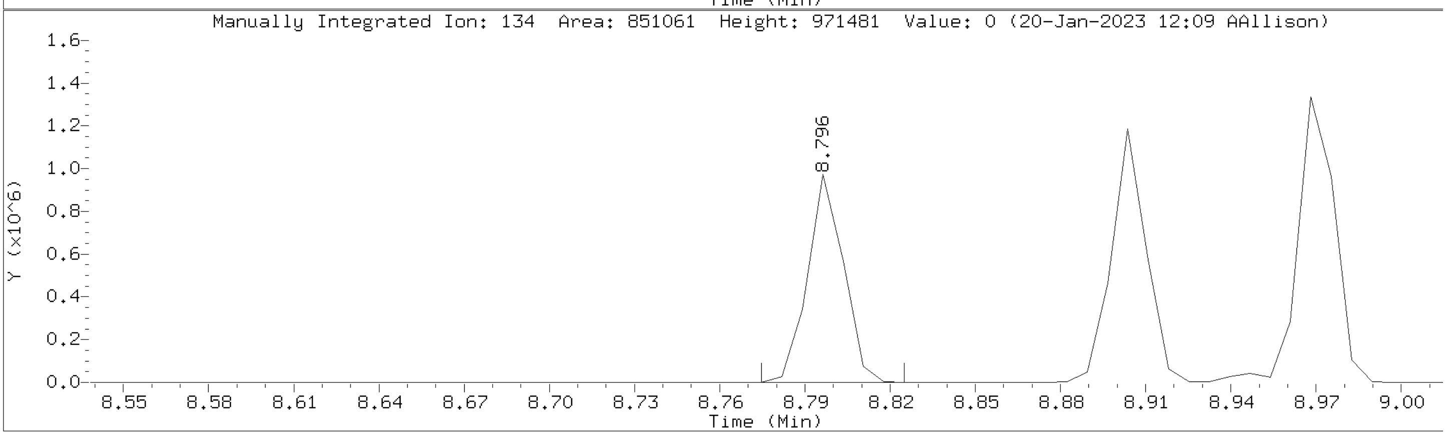
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL9





Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a011923cal.b\e01.d
Lab Smp Id: 8260-CAL6 Client Smp ID: 8260-CAL6
Inj Date : 20-JAN-2023 14:03
Operator : ala Inst ID: 50mvda.i
Smp Info : 8260-cal6,335782:0
Misc Info : 166067
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a011923cal.b\-a8260_a_c.m
Meth Date : 20-Jan-2023 15:00 AAllison Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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

						AMOUNTS		
	QUANT SIG					CAL-AMT	ON-COL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
1 Dichlorodifluoromethane	85	1.217	1.218	(0.238)	63473	20.0000	20.3(M)	LT
2 Chloromethane	50	1.396	1.397	(0.274)	56873	20.0000	17.1	
3 Vinyl Chloride	62	1.396	1.397	(0.274)	61687	20.0000	19.2	
4 Bromomethane	94	1.597	1.597	(0.313)	40199	20.0000	19.6	
5 Chloroethane	64	1.654	1.655	(0.324)	36252	20.0000	19.3	
6 Trichlorofluoromethane	101	1.805	1.805	(0.353)	75717	20.0000	19.7	
7 Diethyl ether	74	1.977	1.977	(0.387)	28398	20.0000	17.2	
8 Acrolein	56	2.084	2.085	(0.408)	284549	400.000	375	
9 1,1,2trichlorotrifluoroethane	101	2.134	2.134	(0.418)	53420	20.0000	21.1	
10 1,1-Dichloroethene	96	2.149	2.149	(0.421)	47375	20.0000	18.3	
11 Acetone	43	2.192	2.192	(0.429)	180103	100.000	118	
12 Iodomethane	142	2.270	2.271	(0.445)	59689	20.0000	24.7	
13 Carbon Disulfide	76	2.320	2.321	(0.454)	150688	20.0000	19.4	
14 Acetonitrile	39	2.406	2.407	(0.471)	68493	100.000	117(M)	GT
15 allyl chloride	41	2.406	2.407	(0.471)	136211	20.0000	19.4	
16 Methyl Acetate	43	2.421	2.421	(0.474)	331854	100.000	96.0	
17 Methylene Chloride	84	2.507	2.507	(0.491)	51929	20.0000	18.6	
18 tert-Butyl Alcohol	59	2.585	2.586	(0.506)	49850	100.000	94.3	
19 Acrylonitrile	53	2.722	2.722	(0.533)	159219	100.000	97.6	
20 Methyl-tert-butyl ether	73	2.722	2.722	(0.533)	141264	20.0000	18.2	
21 1,2-Dichloroethene (trans)	96	2.729	2.729	(0.534)	54244	20.0000	18.2	
22 n-Hexane	57	2.951	2.951	(0.578)	90357	20.0000	19.4	
23 1,1-Dichloroethane	63	3.130	3.130	(0.613)	88243	20.0000	18.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.166	3.166	(0.620)	614387	80.0000	74.6	
	25 Diisopropyl ether	45	3.166	3.166	(0.620)	174361	20.0000	17.8	
	26 chloroprene	53	3.209	3.209	(0.628)	78191	20.0000	19.1	
	27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	149215	20.0000	18.4	
	28 2,2-Dichloropropane	77	3.767	3.768	(0.738)	77947	20.0000	20.8	
	29 1,2-Dichloroethene (cis)	96	3.775	3.775	(0.739)	59624	20.0000	17.8	
	30 2-Butanone	43	3.810	3.811	(0.746)	249152	100.000	104	
	31 Ethyl Acetate	88	3.868	3.868	(0.757)	16632	100.000	98.7	
	32 Propionitrile	54	3.911	3.911	(0.766)	62996	100.000	93.0	
	33 Methacrylonitrile	41	4.090	4.090	(0.801)	328324	100.000	85.6	
	34 Bromochloromethane	49	4.075	4.075	(0.798)	46155	20.0000	18.9	
	35 Tetrahydrofuran	42	4.133	4.133	(0.809)	166155	100.000	86.4	
	36 Chloroform	83	4.176	4.176	(0.818)	88867	20.0000	18.8	
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	126085	50.0000	51.8	
	38 1,1,1-Trichloroethane	97	4.369	4.370	(0.856)	85581	20.0000	20.3	
	39 Cyclohexane	56	4.412	4.413	(0.864)	95051	20.0000	18.5	
	40 Carbon Tetrachloride	117	4.548	4.549	(0.891)	85124	20.0000	22.1	
	41 1,1-Dichloropropene	75	4.562	4.563	(0.893)	67100	20.0000	20.0	
	42 Isobutyl alcohol	43	4.749	4.749	(0.930)	21148	100.000	94.0	
	43 Benzene	78	4.799	4.799	(0.940)	201634	20.0000	18.8	
	44 1,2-Dichloroethane	62	4.842	4.842	(0.948)	65809	20.0000	19.2	
	45 2,2,4-Trimethylpentane	57	4.863	4.864	(0.952)	147021	20.0000	19.2	
	46 tert-Amylmethyl ether	73	4.928	4.928	(0.965)	145118	20.0000	17.7	
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	476620	50.0000		
	48 Trichloroethene	95	5.494	5.494	(1.076)	54424	20.0000	19.7	
	49 Methylcyclohexane	55	5.673	5.673	(1.111)	73037	20.0000	17.8	
	50 1,2-Dichloropropane	63	5.744	5.745	(1.125)	52114	20.0000	18.6	
	51 Dibromomethane	93	5.866	5.867	(1.149)	35564	20.0000	20.5	
	52 1,4-Dioxane	88	5.902	5.902	(1.156)	7110	400.000	413	
	53 Methyl methacrylate	69	5.880	5.881	(1.151)	47213	20.0000	18.1	
	54 Bromodichloromethane	83	6.031	6.031	(1.181)	66202	20.0000	19.3	
	55 2-Chloroethyl vinyl ether	63	6.346	6.347	(0.821)	204254	100.000	94.5	
	56 cis-1,3-Dichloropropene	75	6.475	6.476	(0.838)	82839	20.0000	18.7	
	57 4-Methyl-2-Pentanone	43	6.625	6.626	(0.857)	442134	100.000	87.1	
$	58 Toluene-d8	98	6.697	6.698	(0.867)	446363	50.0000	47.6	
	59 Toluene	91	6.747	6.748	(0.873)	235757	20.0000	18.1	
	60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	76475	20.0000	18.5(M)	LT
	61 Ethyl Methacrylate	69	7.019	7.020	(0.908)	74767	20.0000	17.7	
	62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	38573	20.0000	18.4	
	63 Tetrachloroethene	166	7.163	7.163	(0.927)	71448	20.0000	21.9	
	64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	74991	20.0000	18.2	
	65 2-Hexanone	43	7.270	7.271	(0.941)	368633	100.000	90.6	
	66 Dibromochloromethane	129	7.363	7.364	(0.953)	62043	20.0000	20.6	
	67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	53286	20.0000	19.2	
*	68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	357335	50.0000		
	69 Chlorobenzene	112	7.750	7.751	(1.003)	155001	20.0000	19.4	
	70 1,1,1,2-Tetrachloroethane	131	7.800	7.801	(1.009)	58378	20.0000	20.2	
	71 Ethylbenzene	106	7.815	7.815	(1.011)	83973	20.0000	18.9	
	72 m&p-Xylene	106	7.886	7.887	(1.020)	104459	20.0000	19.2	
	73 o-Xylene	106	8.115	8.116	(1.050)	97508	20.0000	18.9	
	74 Styrene	104	8.123	8.122	(1.051)	165566	20.0000	18.4	
	75 Bromoform	173	8.237	8.238	(0.916)	47660	20.0000	21.2	
	76 Isopropylbenzene	105	8.316	8.316	(1.076)	257797	20.0000	19.0	
$	77 4-Bromofluorobenzene	95	8.409	8.410	(1.088)	146620	50.0000	48.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.488	8.488	(1.098)	81146	20.0000	18.2	
79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	68145	20.0000	17.8	
80 1,2,3-Trichloropropane	110	8.516	8.516	(0.947)	23921	20.0000	19.0	
81 trans-1,4-Dichloro-2-butene	53	8.516	8.516	(1.102)	25859	20.0000	18.2	
82 n-Propylbenzene	91	8.538	8.538	(0.949)	294939	20.0000	18.5	
83 2-Chlorotoluene	91	8.588	8.589	(0.955)	154264	20.0000	18.1	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	196770	20.0000	18.8	
85 4-Chlorotoluene	126	8.638	8.638	(0.960)	64346	20.0000	19.7	
86 tert-Butylbenzene	119	8.789	8.789	(0.977)	195161	20.0000	19.0(M)	LT
87 1,2,4-Trimethylbenzene	105	8.810	8.811	(0.979)	194742	20.0000	18.6	
88 sec-Butylbenzene	105	8.896	8.897	(0.989)	238056	20.0000	18.7	
89 1,3-Dichlorobenzene	146	8.961	8.961	(0.996)	107758	20.0000	19.2	
90 p-Isopropyltoluene	119	8.961	8.961	(0.996)	203816	20.0000	19.1	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.997	(1.000)	172256	50.0000		
92 1,4-Dichlorobenzene	146	9.004	9.004	(1.001)	107168	20.0000	19.1	
93 1,2,3-Trimethylbenzene	105	9.025	9.026	(1.003)	175781	20.0000	18.3	
94 n-Butylbenzene	91	9.161	9.162	(1.018)	159560	20.0000	18.4	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	93509	20.0000	19.6	
96 Hexachloroethane	201	9.312	9.312	(1.035)	31866	20.0000	23.5	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.563	(1.063)	15482	20.0000	20.7	
98 1,2,4-Trichlorobenzene	180	9.942	9.942	(1.105)	30255	20.0000	19.9	
99 Hexachlorobutadiene	225	10.006	10.007	(1.112)	17070	20.0000	22.9	
100 Naphthalene	128	10.064	10.064	(1.119)	81815	20.0000	17.7	
101 1,2,3-Trichlorobenzene	180	10.178	10.179	(1.131)	16398	20.0000	19.5	
102 2,methyl-naphthalene	142	10.644	10.644	(1.183)	3264	20.0000	15.1	
103 1-Methylnaphthalene	142	10.766	10.766	(1.197)	1852	20.0000	14.9	

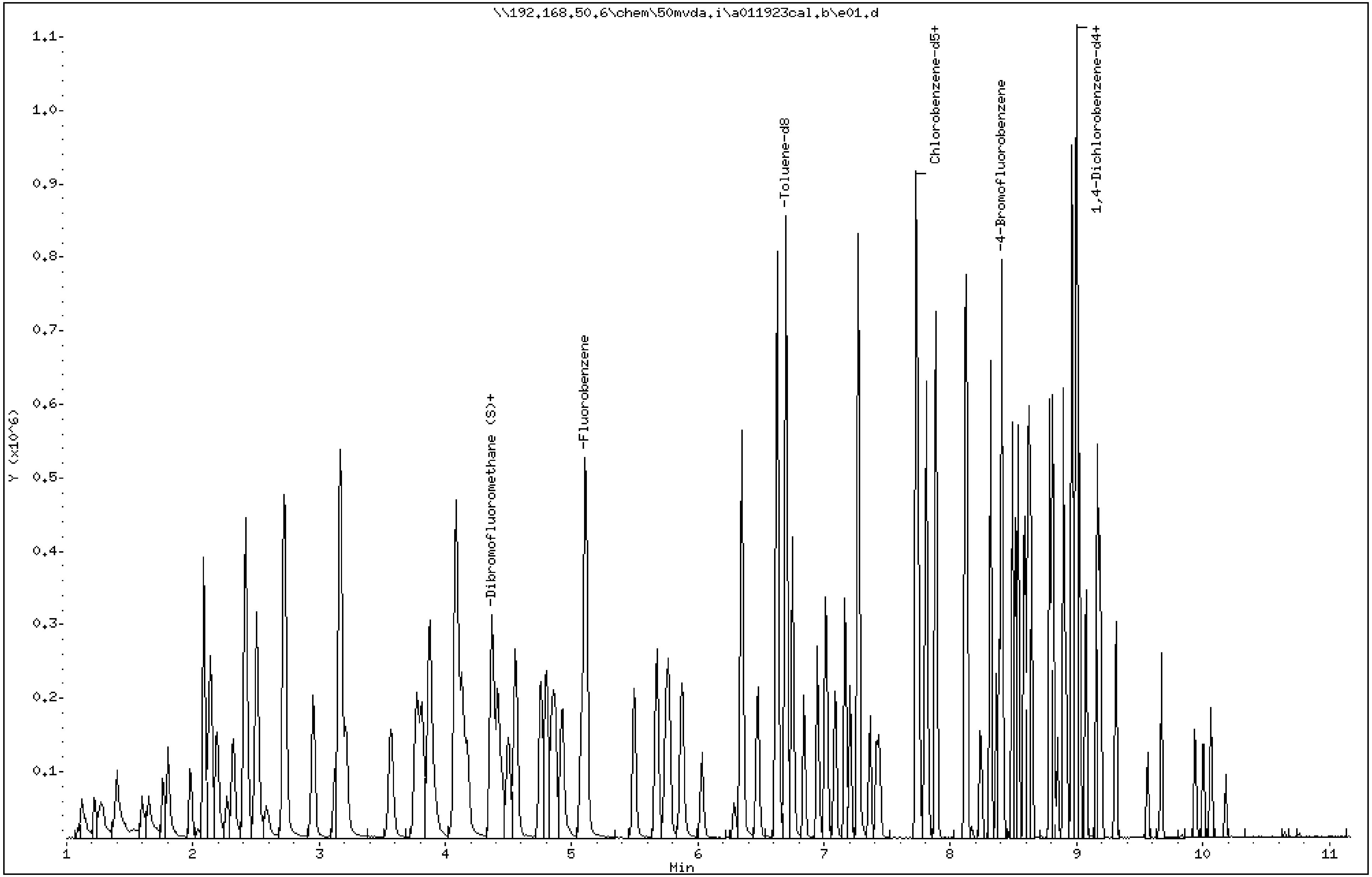
QC Flag Legend

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).
:
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\50mvda.i\a011923cal.b\e01.d
Date : 20-JAN-2023 14:03
Client ID: 8260-CAL6 Instrument: 50mvda.i
Sample Info: 8260-CAL6,335782:0
Purge Volume: 5.0 Operator: ala
Column phase: DB-624 Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\e01.d

Date : 20-JAN-2023 14:03

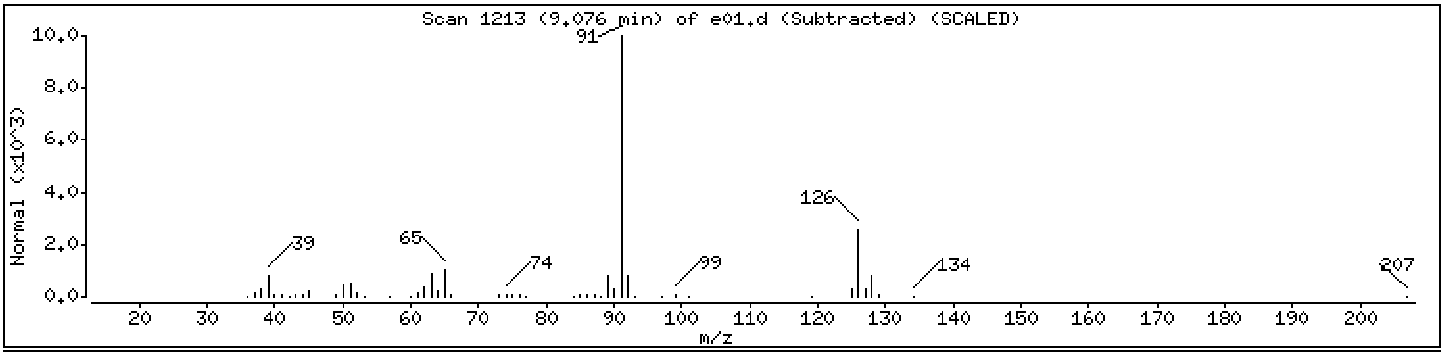
Client ID: 8260-CAL6 Instrument: 50mvda.i

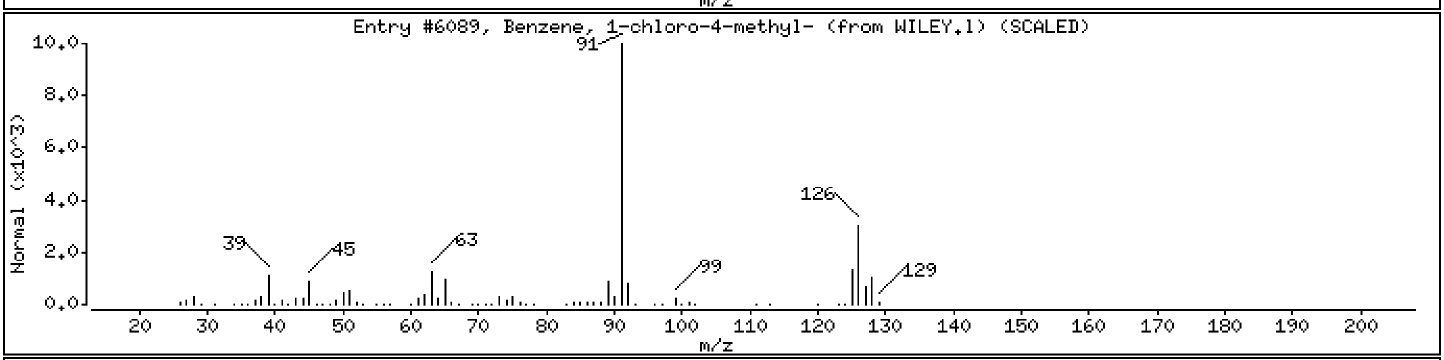
Sample Info: 8260-CAL6,335782:0

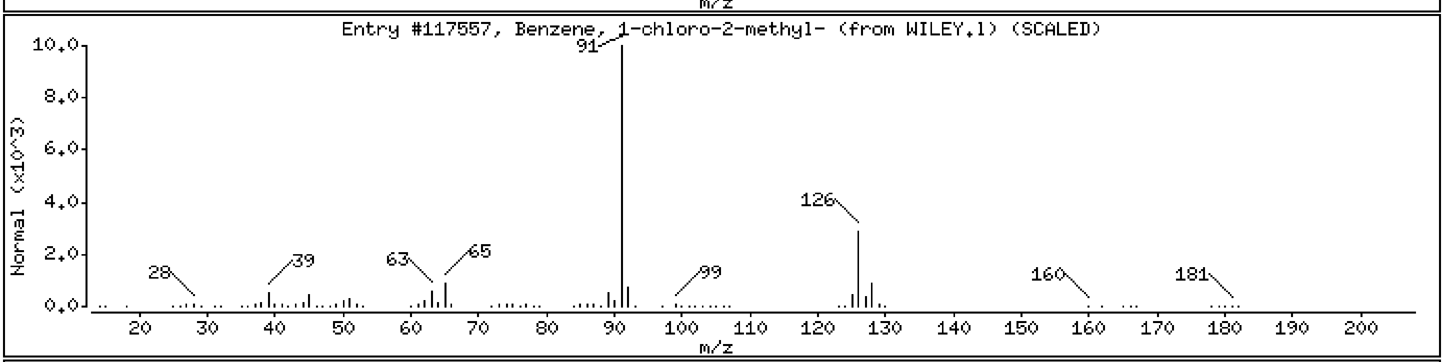
Purge Volume: 5.0 Operator: ala

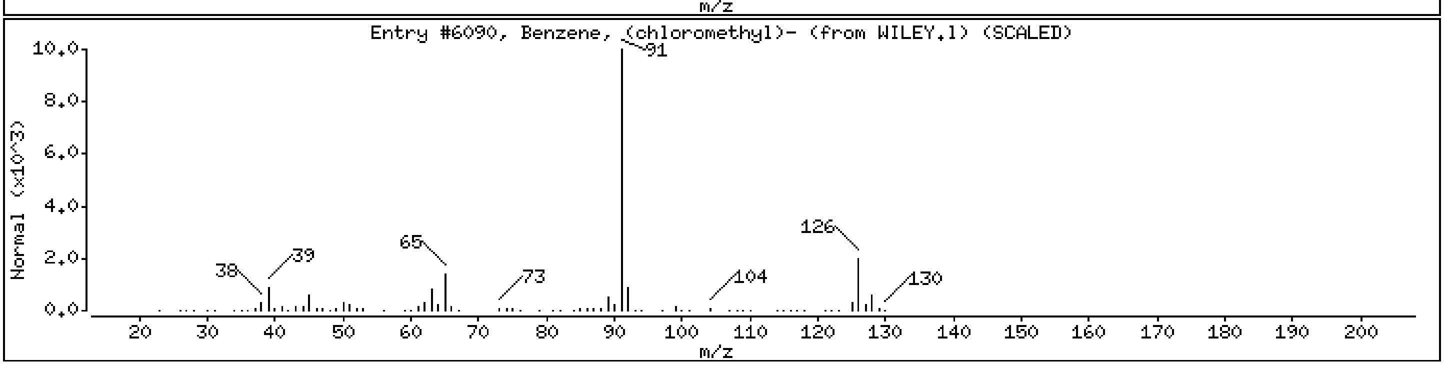
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-chloro-4-methyl-	106-43-4	WILEY.l	6089	91	C7H7Cl	126
Benzene, 1-chloro-2-methyl-	95-49-8	WILEY.l	117557	91	C7H7Cl	126
Benzene, (chloromethyl)-	100-44-7	WILEY.l	6090	91	C7H7Cl	126



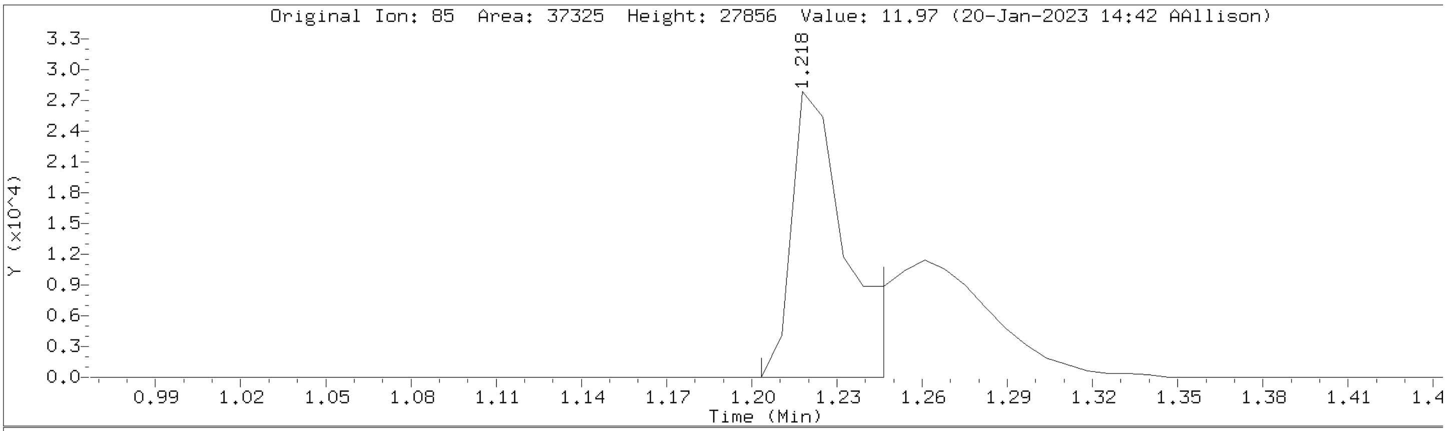


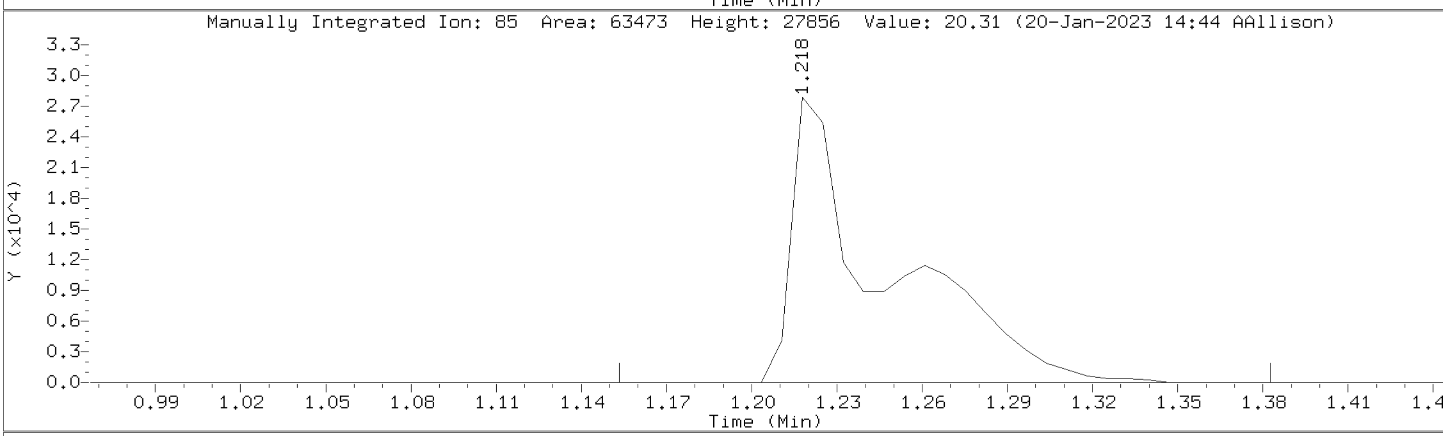


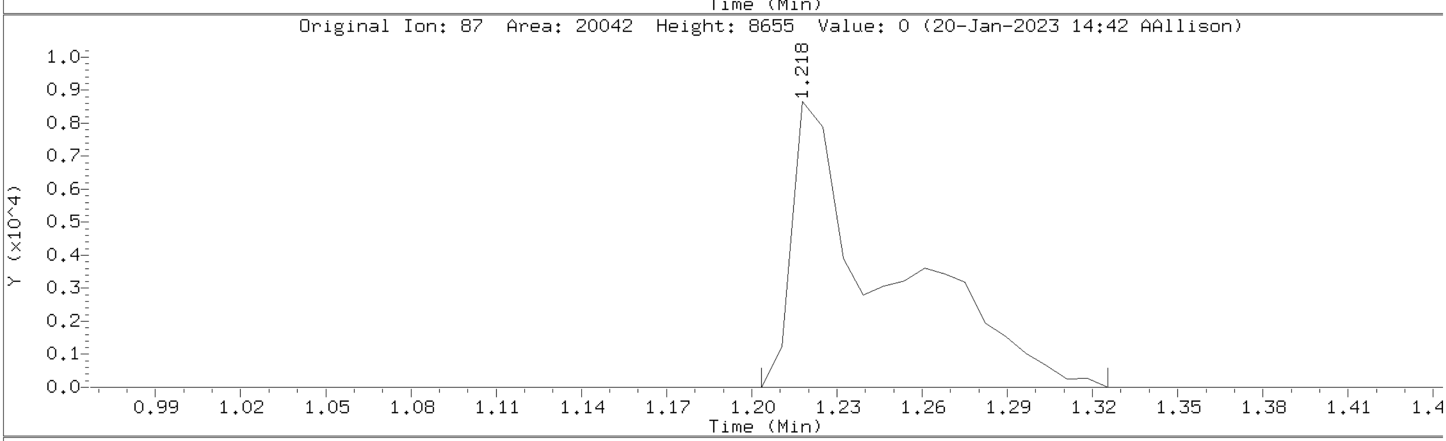


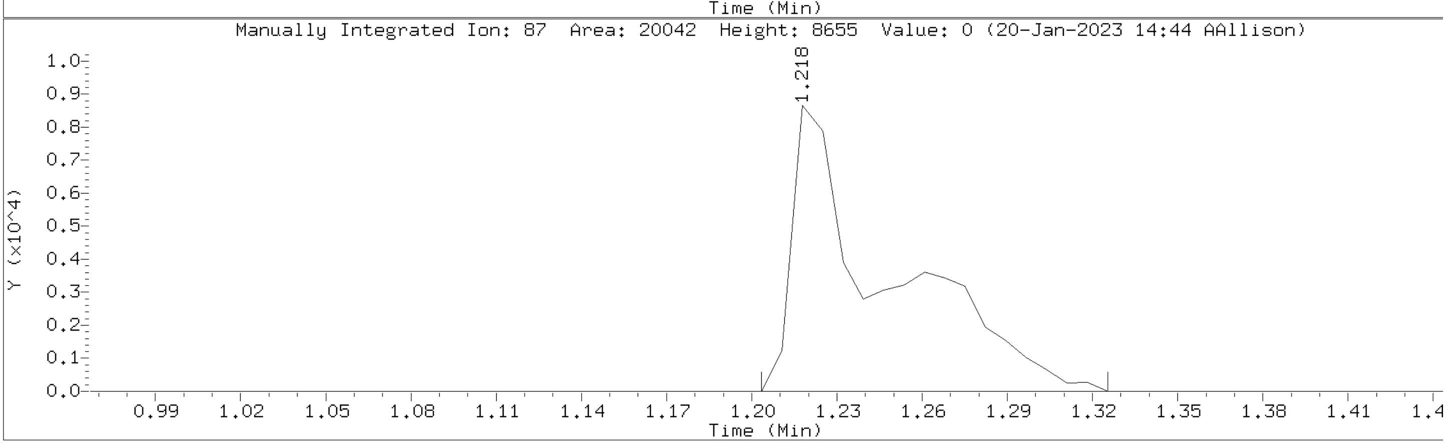
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e01.d
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4









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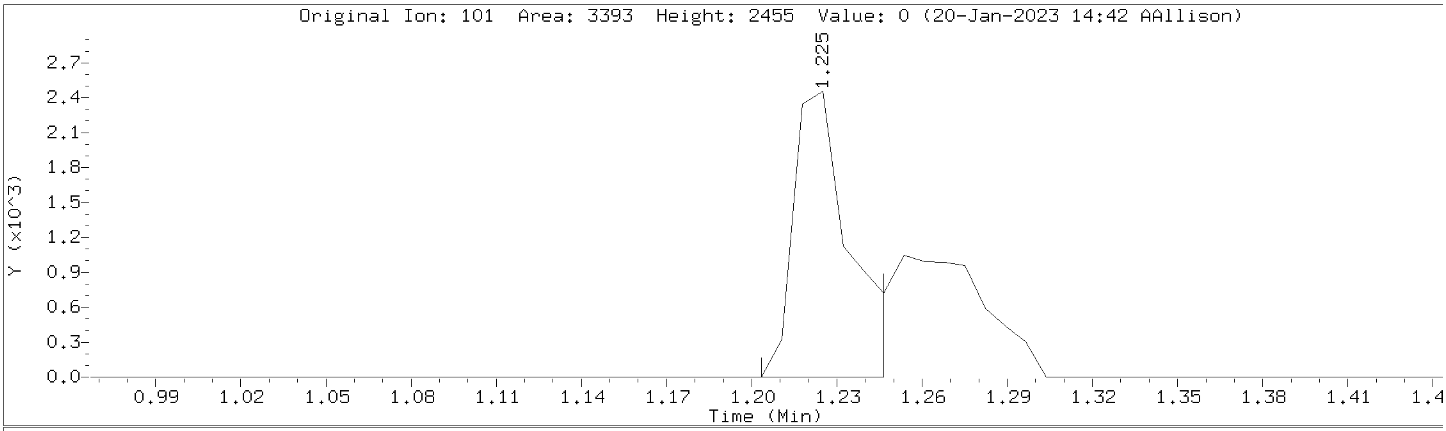
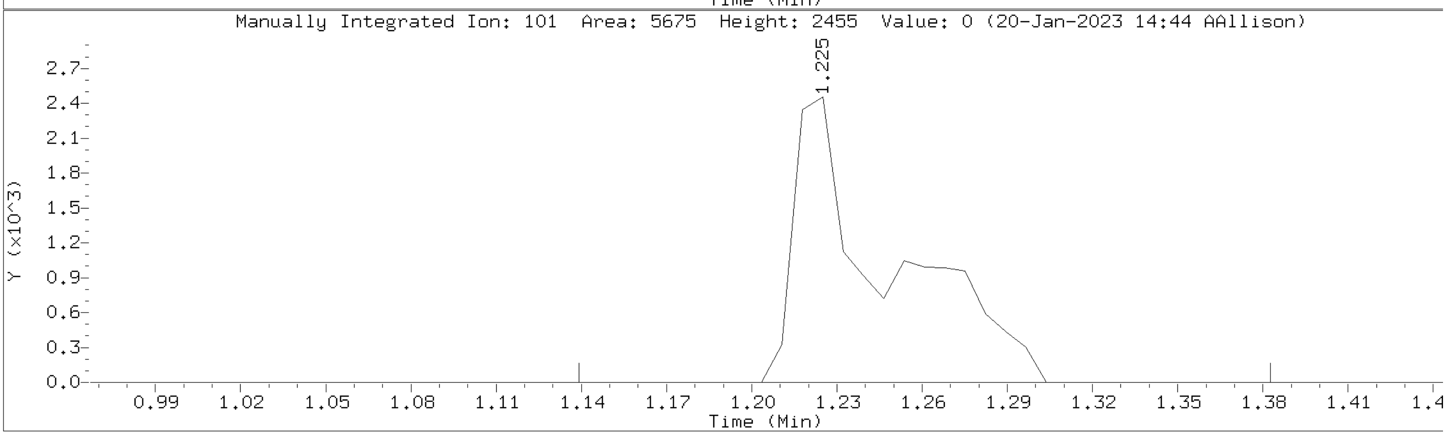
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6

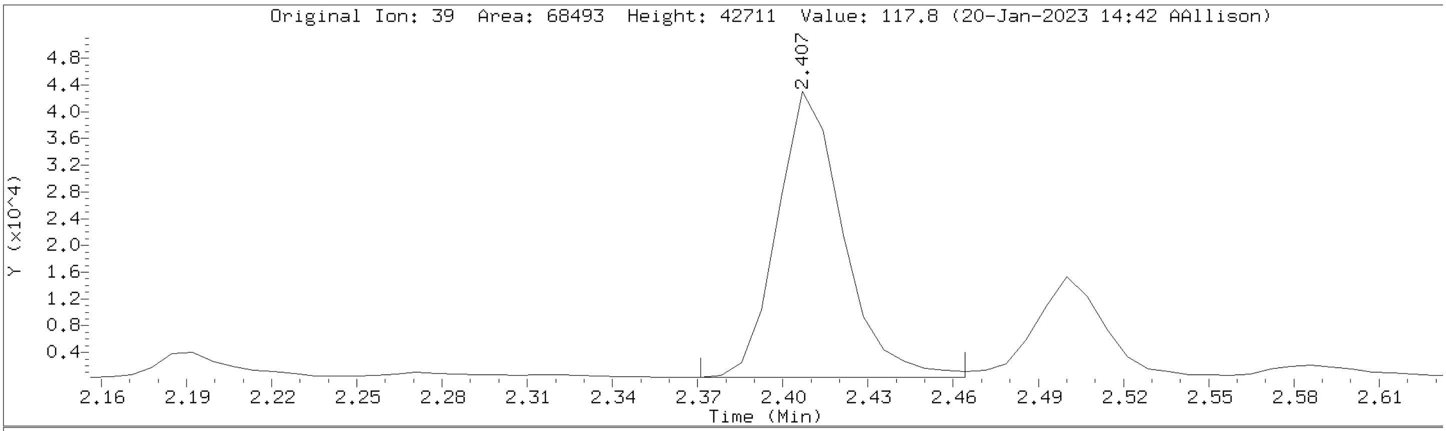




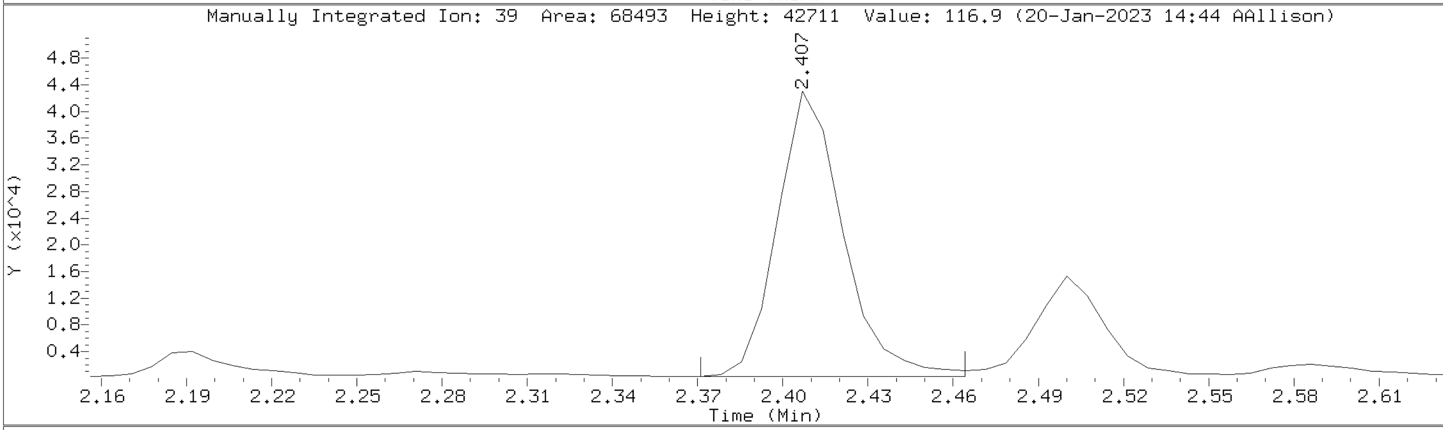
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e01.d
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6

Compound: Acetonitrile   Review Code: GT
CAS Number: 75-05-8

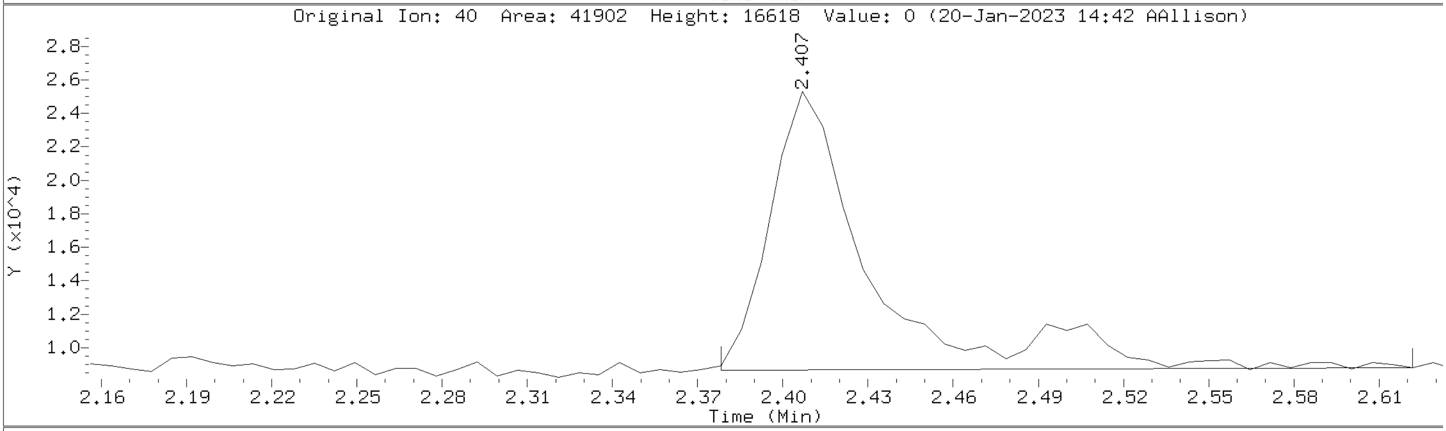
Original Ion: 39 Area: 68493 Height: 42711 Value: 117.8 (20-Jan-2023 14:42 AAllison)



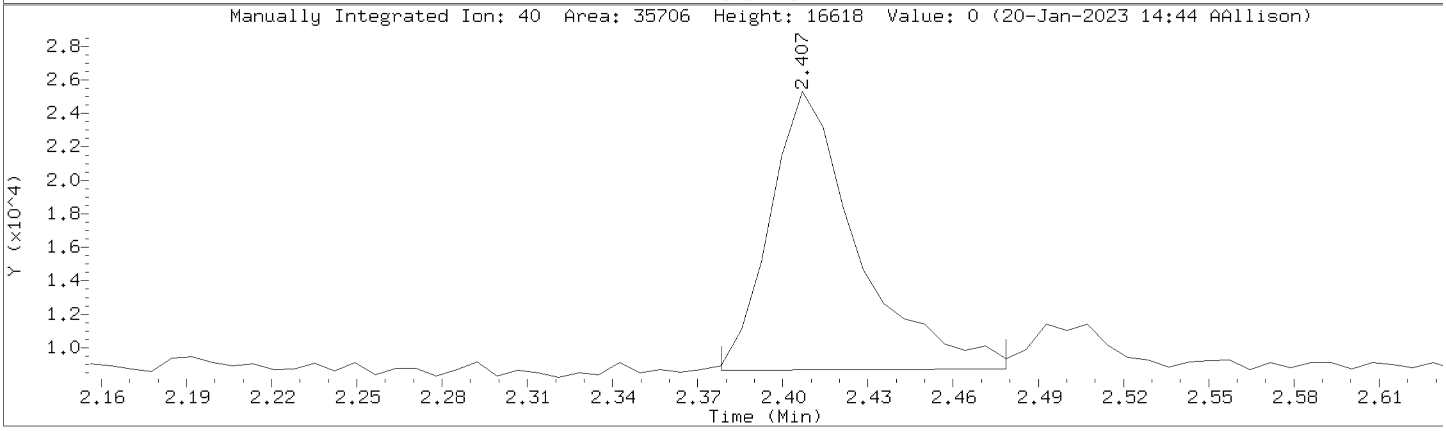
Manually Integrated Ion: 39 Area: 68493 Height: 42711 Value: 116.9 (20-Jan-2023 14:44 AAllison)



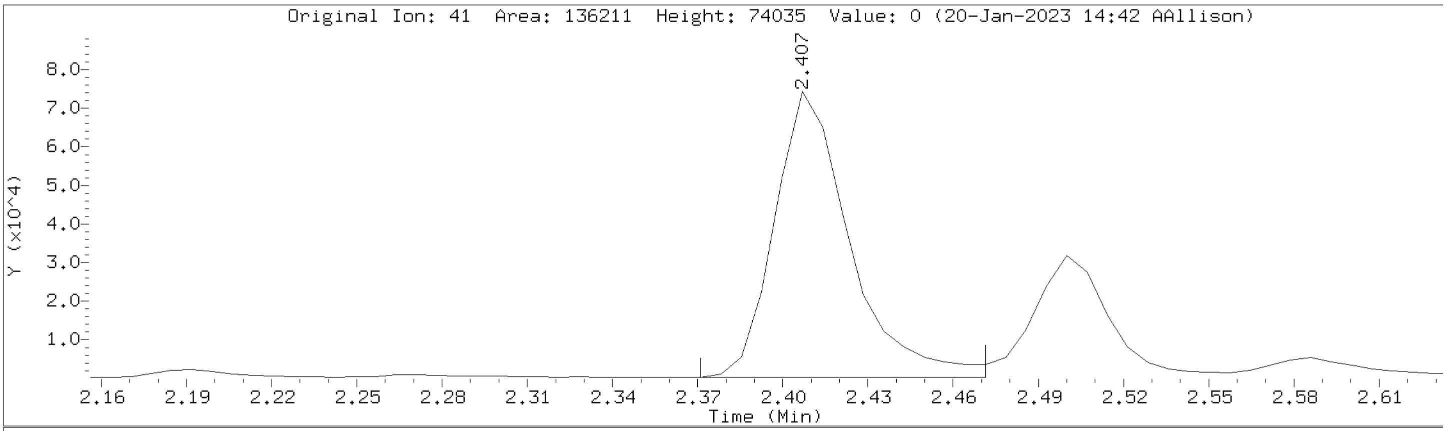
Original Ion: 40 Area: 41902 Height: 16618 Value: 0 (20-Jan-2023 14:42 AAllison)

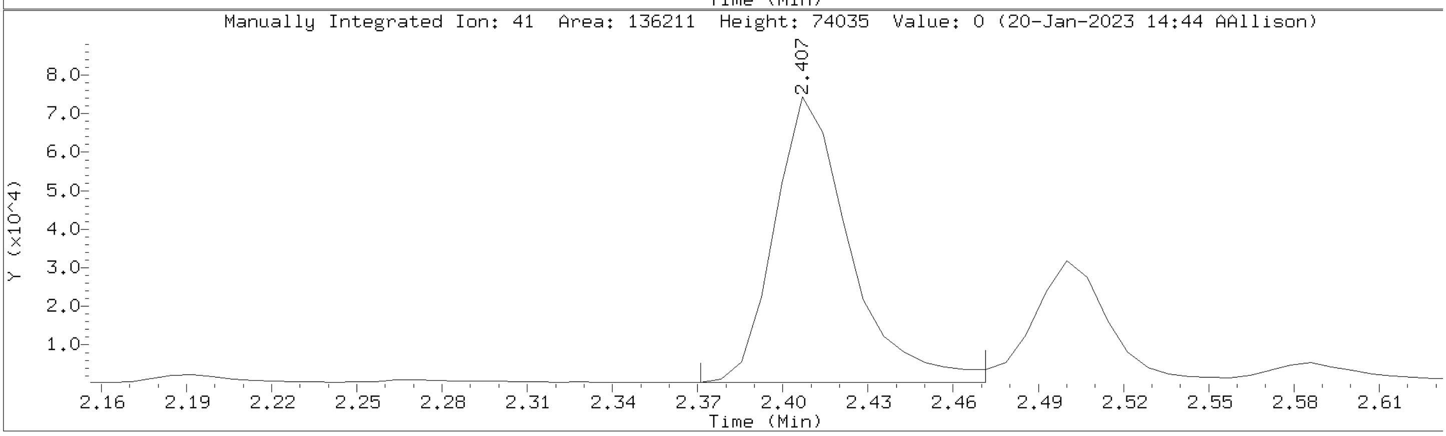


Manually Integrated Ion: 40 Area: 35706 Height: 16618 Value: 0 (20-Jan-2023 14:44 AAllison)



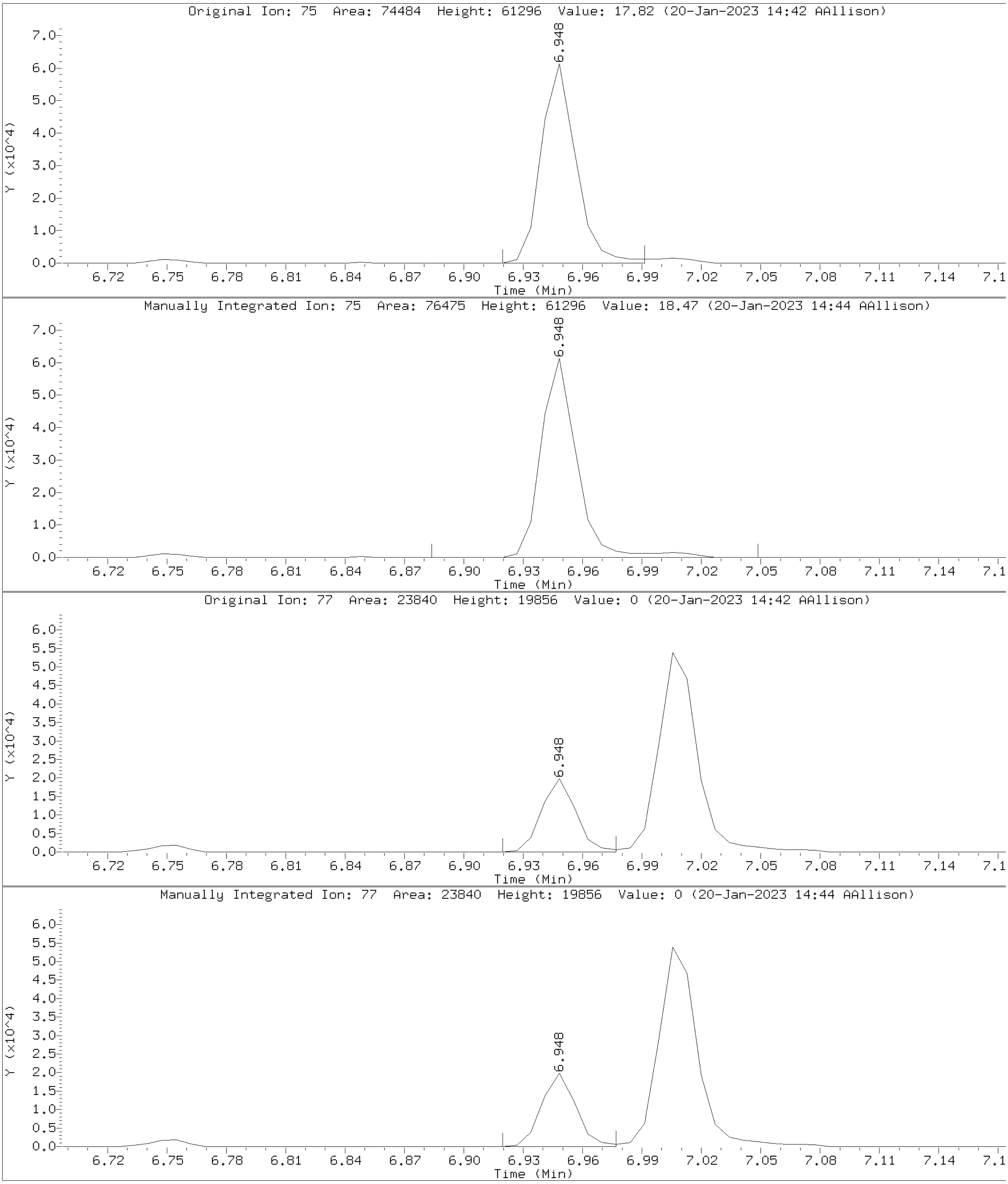
Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e01.d
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6





Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e01.d
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6

Compound: trans-1,3-Dichloropropene   Review Code: LT
CAS Number: 10061-02-6



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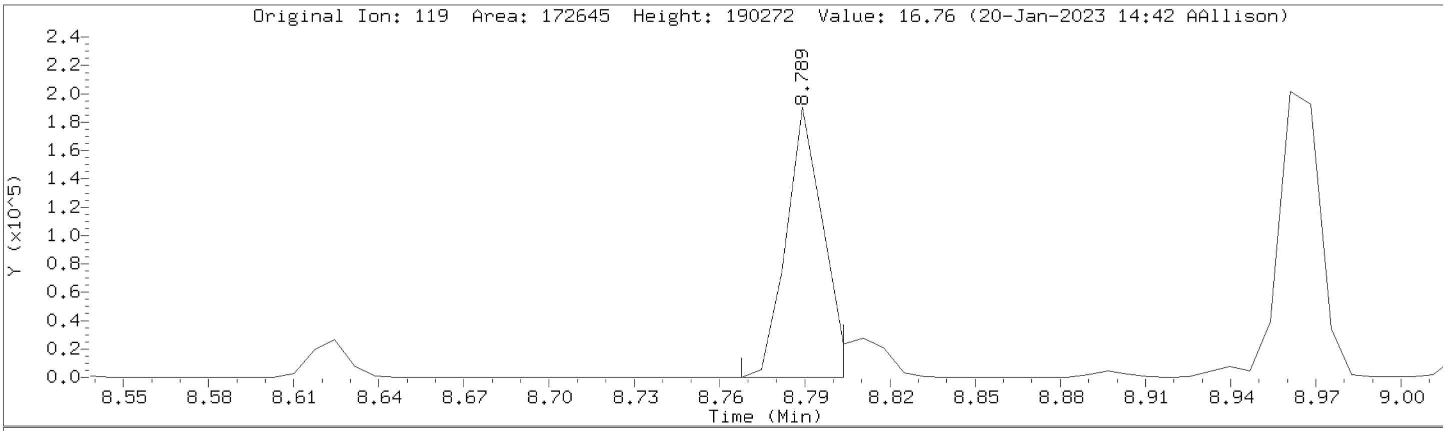
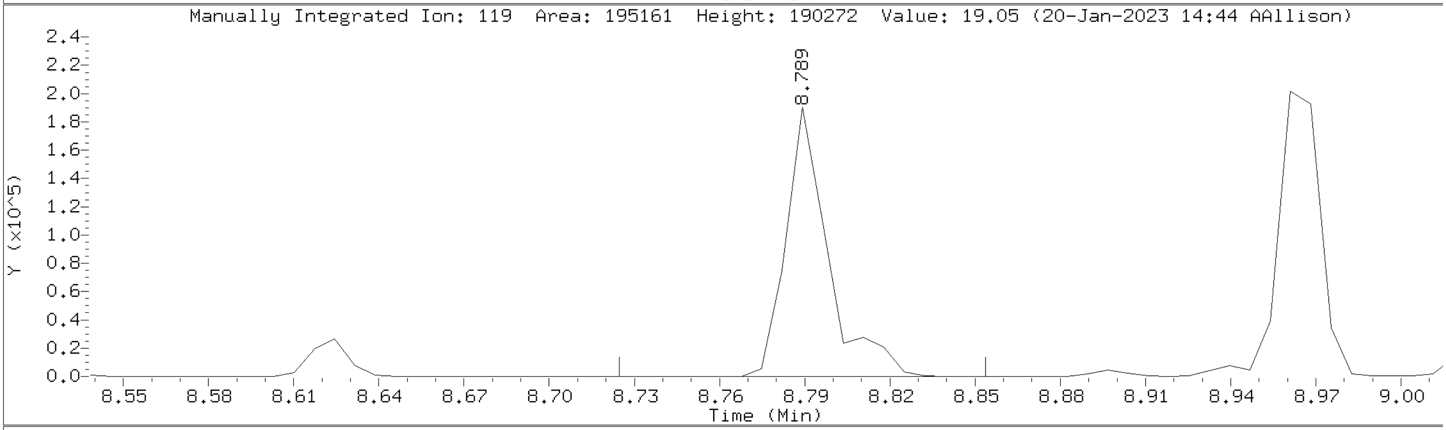
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butylbenzene   Review Code: LT
CAS Number: 98-06-6

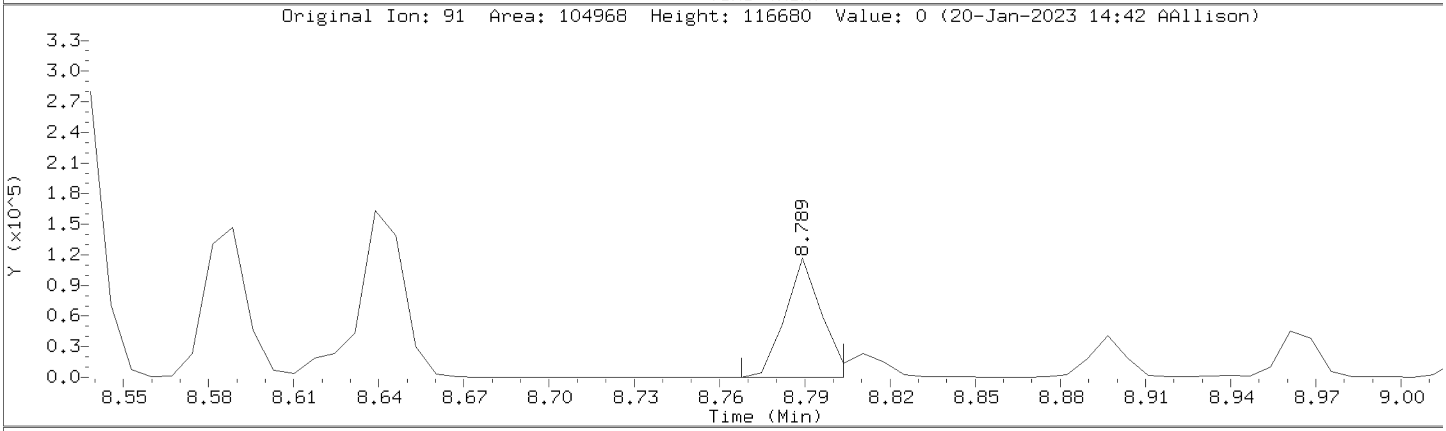
Original Ion: 119 Area: 172645 Height: 190272 Value: 16.76 (20-Jan-2023 14:42 AAllison)



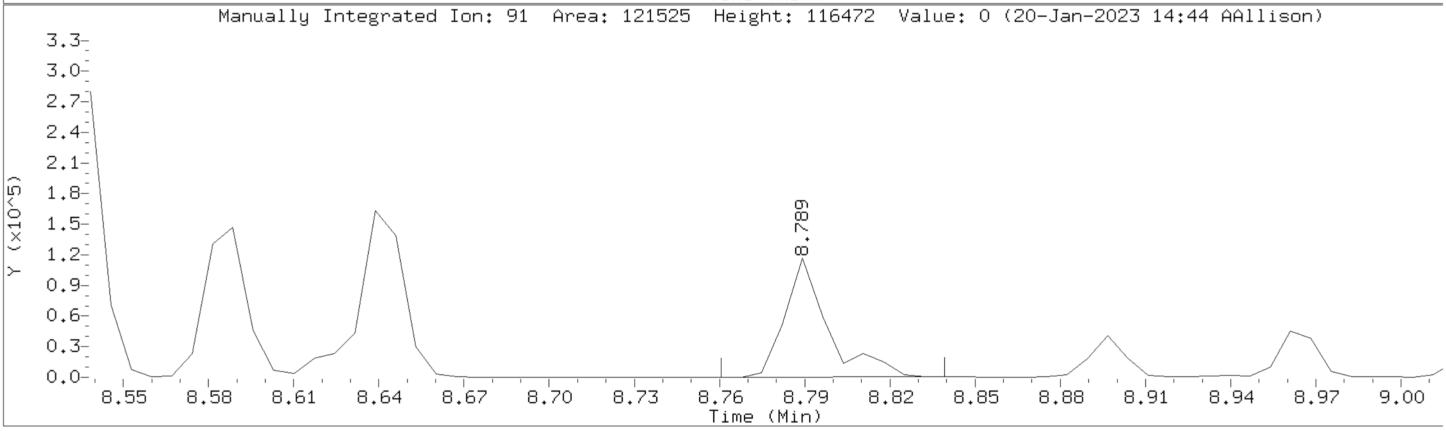
Manually Integrated Ion: 119 Area: 195161 Height: 190272 Value: 19.05 (20-Jan-2023 14:44 AAllison)



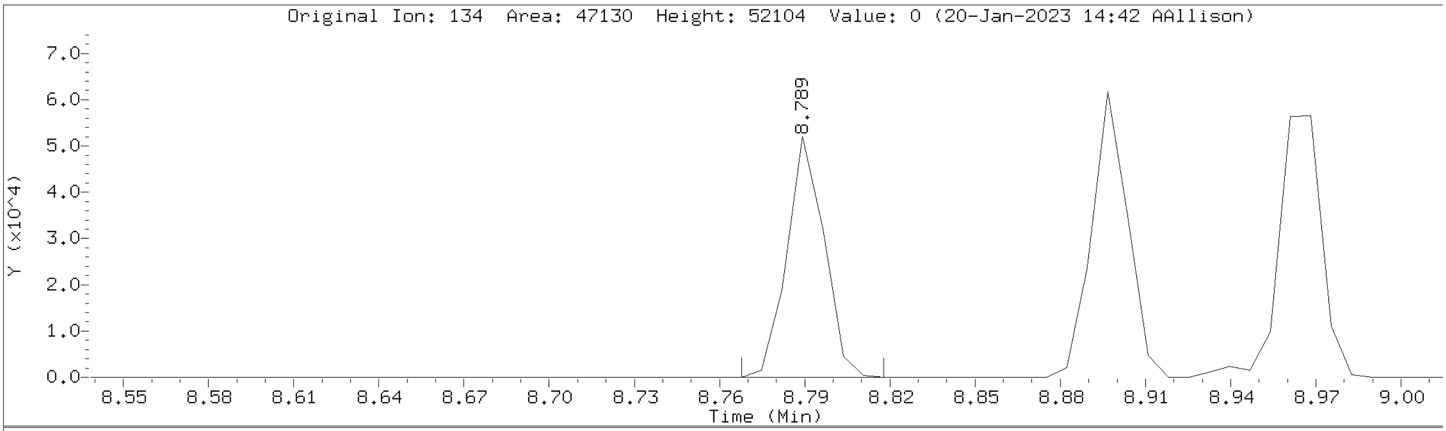
Original Ion: 91 Area: 104968 Height: 116680 Value: 0 (20-Jan-2023 14:42 AAllison)

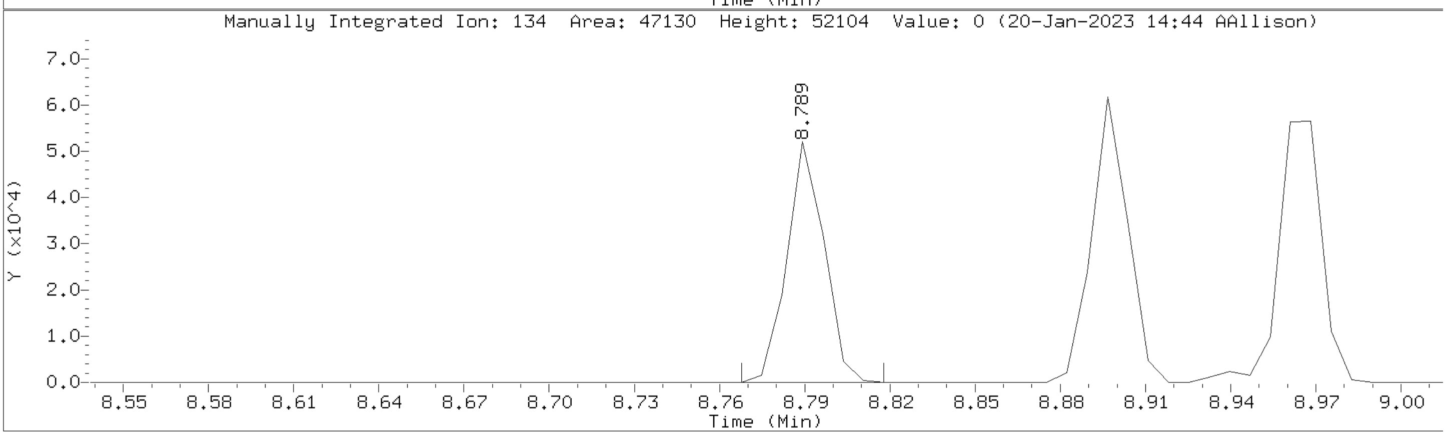


Manually Integrated Ion: 91 Area: 121525 Height: 116472 Value: 0 (20-Jan-2023 14:44 AAllison)



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e01.d
Injection Date: 20-JAN-2023 14:03
Instrument: 50mvda.i
Lab Sample ID: 8260-CAL6





SAMPLE NO.

22361875CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana

Calibration Date: 01/27/2023 Time: 11:06

Instrument ID: 50MV2A GC Column: Col 1

Init. Calib. Date(s): 01/24/2023 01/24/2023

Lab File ID: A012723.B\A01CCV.D

Init. Calib. Time(s): 14:21 18:14

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.07790	0.08244	0.0100	5.8386	20.0000
Acrolein	Averaged	0.04650	0.05294	0.0000	13.8470	20.0000
Acrylonitrile	Wt Linear	250	272.4269	0.0000	8.9708	20.0000
Benzene	Averaged	0.90661	0.94556	0.5000	4.2963	20.0000
Bromobenzene	Averaged	0.56897	0.54752	0.0000	-3.7695	20.0000
Bromochloromethane	Wt Linear	50	52.92203	0.0000	5.8441	20.0000
Bromodichloromethane	Averaged	0.29686	0.32593	0.2000	9.7943	20.0000
Bromoform	Wt Linear	50	48.31896	0.1000	-3.3621	20.0000
Bromomethane	Wt Linear	50	59.82730	0.0500	19.6546	20.0000
2-Butanone (MEK)	Averaged	0.10834	0.12024	0.0100	10.9880	20.0000
n-Butylbenzene	Averaged	2.12335	2.20415	0.0000	3.8052	20.0000
sec-Butylbenzene	Averaged	3.00345	3.09925	0.0000	3.1896	20.0000
tert-Butylbenzene	Averaged	2.50500	2.34184	0.0000	-6.5131	20.0000
Carbon disulfide	Averaged	0.53912	0.58676	0.1000	8.8362	20.0000
Carbon tetrachloride	Averaged	0.33931	0.37252	0.1000	9.7884	20.0000
Chlorobenzene	Averaged	0.95263	0.97355	0.5000	2.1961	20.0000
Chloroethane	Wt Linear	50	53.98830	0.1000	7.9766	20.0000
Chloroform	Averaged	0.42348	0.45059	0.2000	6.4017	20.0000
Chloromethane	Wt Linear	50	52.30011	0.1000	4.6002	20.0000
2-Chlorotoluene	Averaged	1.93528	1.99497	0.0000	3.0845	20.0000
4-Chlorotoluene	Averaged	0.73058	0.77625	0.0000	6.2506	20.0000
Dibromochloromethane	Averaged	0.34288	0.36883	0.1000	7.5678	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.30280	0.33529	0.1000	10.7313	20.0000
Dibromomethane	Averaged	0.14836	0.16502	0.0000	11.2260	20.0000
1,2-Dichlorobenzene	Averaged	1.28432	1.28709	0.4000	0.2154	20.0000
1,3-Dichlorobenzene	Averaged	1.44107	1.45263	0.6000	0.8027	20.0000
1,4-Dichlorobenzene	Averaged	1.41760	1.46186	0.5000	3.1224	20.0000
trans-1,4-Dichloro-2-butene	Wt Linear	50	55.22920	0.0000	10.4584	20.0000
Dichlorodifluoromethane	Averaged	0.24790	0.21118	0.1000	-14.8099	20.0000
1,1-Dichloroethane	Averaged	0.36125	0.38663	0.2000	7.0261	20.0000
1,2-Dichloroethane	Averaged	0.31535	0.32701	0.1000	3.6987	20.0000
1,1-Dichloroethene	Averaged	0.20180	0.22227	0.1000	10.1458	20.0000
cis-1,2-Dichloroethene	Averaged	0.25675	0.28347	0.1000	10.4065	20.0000
trans-1,2-Dichloroethene	Averaged	0.23087	0.25519	0.1000	10.5370	20.0000
1,2-Dichloropropane	Averaged	0.20666	0.22063	0.1000	6.7606	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22361875CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana

Calibration Date: 01/27/2023 Time: 11:06

Instrument ID: 50MV2A GC Column: Col 1

Init. Calib. Date(s): 01/24/2023 01/24/2023

Lab File ID: A012723.B\A01CCV.D

Init. Calib. Time(s): 14:21 18:14

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,3-Dichloropropane	Averaged	0.46079	0.46908	0.0000	1.8001	20.0000
2,2-Dichloropropane	Averaged	0.31385	0.37744	0.0000	20.2605*	20.0000
1,1-Dichloropropene	Averaged	0.28238	0.31407	0.0000	11.2227	20.0000
cis-1,3-Dichloropropene	Averaged	0.46015	0.49843	0.2000	8.3194	20.0000
trans-1,3-Dichloropropene	Averaged	0.43315	0.45999	0.1000	6.1979	20.0000
Ethylbenzene	Averaged	0.50654	0.52264	0.1000	3.1793	20.0000
Ethyl methacrylate	Averaged	0.41775	0.44019	0.0000	5.3718	20.0000
Hexachloro-1,3-butadiene	Averaged	0.37524	0.39100	0.0000	4.2004	20.0000
n-Hexane	Averaged	0.29236	0.31299	0.0000	7.0542	20.0000
2-Hexanone	Averaged	0.24621	0.25859	0.0500	5.0252	20.0000
Iodomethane	Wt Linear	50	56.69331	0.0000	13.3866	20.0000
Isopropylbenzene (Cumene)	Averaged	1.62068	1.65081	0.1000	1.8592	20.0000
p-Isopropyltoluene	Averaged	2.65799	2.72584	0.0000	2.5527	20.0000
Methylene Chloride	Averaged	0.25796	0.23842	0.1000	-7.5748	20.0000
4-Methyl-2-pentanone (MIBK)	Wt Linear	250	243.5330	0.0500	-2.5868	20.0000
Methyl-tert-butyl ether	Averaged	0.66177	0.70727	0.1000	6.8755	20.0000
Naphthalene	Averaged	1.99903	2.02386	0.0000	1.2425	20.0000
n-Propylbenzene	Averaged	3.33433	3.47549	0.0000	4.2336	20.0000
Styrene	Averaged	1.02776	1.06053	0.3000	3.1886	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.33668	0.36171	0.0000	7.4350	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.72819	0.78173	0.3000	7.3535	20.0000
Tetrachloroethene	Averaged	0.42682	0.45228	0.1000	5.9657	20.0000
Toluene	Averaged	1.38749	1.41286	0.4000	1.8285	20.0000
1,2,3-Trichlorobenzene	Averaged	0.60445	0.61114	0.0000	1.1064	20.0000
1,2,4-Trichlorobenzene	Averaged	0.76650	0.77110	0.2000	0.6002	20.0000
1,1,1-Trichloroethane	Averaged	0.37788	0.41287	0.1000	9.2594	20.0000
1,1,2-Trichloroethane	Averaged	0.22648	0.23741	0.1000	4.8245	20.0000
Trichloroethene	Averaged	0.24978	0.27017	0.1000	8.1633	20.0000
Trichlorofluoromethane	Wt Linear	50	54.69838	0.1000	9.3968	20.0000
1,2,3-Trichloropropane	Averaged	0.26464	0.28401	0.0000	7.3205	20.0000
1,2,4-Trimethylbenzene	Averaged	2.49223	2.52685	0.0000	1.3889	20.0000
1,3,5-Trimethylbenzene	Averaged	2.43571	2.50148	0.0000	2.7002	20.0000
Vinyl acetate	Averaged	0.46677	0.51971	0.0000	11.3399	20.0000
Vinyl chloride	Wt Linear	50	51.30223	0.1000	2.6045	20.0000
m&p-Xylene	Averaged	0.63273	0.67294	0.1000	6.3557	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22361875CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana

Calibration Date: 01/27/2023 Time: 11:06

Instrument ID: 50MV2A GC Column: Col 1

Init. Calib. Date(s): 01/24/2023 01/24/2023

Lab File ID: A012723.B\A01CCV.D

Init. Calib. Time(s): 14:21 18:14

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.60136	0.61953	0.3000	3.0219	20.0000
4-Bromofluorobenzene (S)	Averaged	0.48327	0.48412	0.1000	0.1766	20.0000
Dibromofluoromethane (S)	Averaged	0.27090	0.28198	0.1000	4.0904	20.0000
Toluene-d8 (S)	Averaged	1.27098	1.25796	0.1000	-1.0244	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22377365CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana | Calibration Date: 01/24/2023 | Time: 13:31

Instrument ID: 50MVCB | GC Column: Col 1 | Init. Calib. Date(s): 01/16/2023 | 01/16/2023

Lab File ID: B012423.B\B02CCV.D | Init. Calib. Time(s): 14:21 | 18:42

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.09071	0.09085	0.0100	0.1573	20.0000
Acrolein	Averaged	0.06180	0.07218	0.0000	16.7842	20.0000
Acrylonitrile	Averaged	0.11308	0.15196	0.0000	34.3830*	20.0000
Benzene	Averaged	1.34348	1.29650	0.5000	-3.4970	20.0000
Bromobenzene	Averaged	0.95247	0.96557	0.0000	1.3754	20.0000
Bromochloromethane	Averaged	0.23721	0.22809	0.0000	-3.8432	20.0000
Bromodichloromethane	Wt Linear	50	60.93387	0.2000	21.8677*	20.0000
Bromoform	Averaged	0.64034	0.64399	0.1000	0.5709	20.0000
Bromomethane	Averaged	0.17021	0.10782	0.1000	-36.6525	20.0000
2-Butanone (MEK)	Averaged	0.13739	0.15569	0.0100	13.3175	20.0000
n-Butylbenzene	Averaged	2.39392	2.24392	0.0000	-6.2658	20.0000
sec-Butylbenzene	Averaged	3.37410	3.65213	0.0000	8.2400	20.0000
tert-Butylbenzene	Averaged	2.77421	2.99168	0.0000	7.8392	20.0000
Carbon disulfide	Averaged	0.92735	1.04628	0.1000	12.8239	20.0000
Carbon tetrachloride	Averaged	0.39437	0.40717	0.1000	3.2438	20.0000
Chlorobenzene	Averaged	1.26055	1.25602	0.5000	-0.3597	20.0000
Chloroethane	Averaged	0.20759	0.13367	0.1000	-35.6092	20.0000
Chloroform	Averaged	0.54665	0.52051	0.2000	-4.7810	20.0000
Chloromethane	Averaged	0.33301	0.18368	0.1000	-44.8428	20.0000
2-Chlorotoluene	Averaged	2.45352	2.53435	0.0000	3.2944	20.0000
4-Chlorotoluene	Averaged	0.92113	0.93686	0.0000	1.7074	20.0000
Dibromochloromethane	Averaged	0.45406	0.45147	0.1000	-0.5695	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.41701	0.40548	0.1000	-2.7651	20.0000
Dibromomethane	Averaged	0.19127	0.20030	0.0000	4.7189	20.0000
1,2-Dichlorobenzene	Averaged	1.59417	1.45771	0.4000	-8.5601	20.0000
1,3-Dichlorobenzene	Averaged	1.67484	1.77180	0.6000	5.7892	20.0000
1,4-Dichlorobenzene	Averaged	1.71961	1.76530	0.5000	2.6572	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.15004	0.15299	0.0000	1.9663	20.0000
Dichlorodifluoromethane	Averaged	0.33633	0.27430	0.1000	-18.4438	20.0000
1,1-Dichloroethane	Averaged	0.54144	0.54688	0.2000	1.0040	20.0000
1,2-Dichloroethane	Wt Linear	50	50.67895	0.1000	1.3579	20.0000
1,1-Dichloroethene	Averaged	0.27781	0.31997	0.1000	15.1775	20.0000
cis-1,2-Dichloroethene	Averaged	0.35131	0.38858	0.1000	10.6105	20.0000
trans-1,2-Dichloroethene	Averaged	0.31716	0.35723	0.1000	12.6314	20.0000
1,2-Dichloropropane	Wt Linear	50	58.03463	0.1000	16.0693	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22377365CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana

Calibration Date: 01/24/2023 Time: 13:31

Instrument ID: 50MVCB GC Column: Col 1

Init. Calib. Date(s): 01/16/2023 01/16/2023

Lab File ID: B012423.B\B02CCV.D

Init. Calib. Time(s): 14:21 18:42

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,3-Dichloropropane	Averaged	0.68678	0.65570	0.0000	-4.5244	20.0000
2,2-Dichloropropane	Averaged	0.42365	0.46765	0.0000	10.3860	20.0000
1,1-Dichloropropene	Averaged	0.38995	0.41611	0.0000	6.7081	20.0000
cis-1,3-Dichloropropene	Averaged	0.70179	0.70800	0.2000	0.8854	20.0000
trans-1,3-Dichloropropene	Averaged	0.61968	0.61728	0.1000	-0.3881	20.0000
Ethylbenzene	Averaged	0.65800	0.68016	0.1000	3.3681	20.0000
Ethyl methacrylate	Averaged	0.56269	0.59906	0.0000	6.4631	20.0000
Hexachloro-1,3-butadiene	Averaged	0.43235	0.41767	0.0000	-3.3953	20.0000
n-Hexane	Averaged	0.38933	0.49857	0.0000	28.0609*	20.0000
2-Hexanone	Averaged	0.30220	0.32087	0.0500	6.1795	20.0000
Iodomethane	Averaged	0.39110	0.24437	0.0000	-37.5173	20.0000
Isopropylbenzene (Cumene)	Averaged	1.91497	2.02586	0.1000	5.7908	20.0000
p-Isopropyltoluene	Averaged	2.94227	3.19899	0.0000	8.7253	20.0000
Methylene Chloride	Wt Linear	50	59.11600	0.1000	18.2320	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.41021	0.43745	0.0500	6.6409	20.0000
Methyl-tert-butyl ether	Averaged	0.88861	0.98239	0.1000	10.5541	20.0000
Naphthalene	Averaged	2.50227	2.25014	0.0000	-10.0760	20.0000
n-Propylbenzene	Averaged	4.02910	4.28288	0.0000	6.2986	20.0000
Styrene	Averaged	1.30602	1.34555	0.3000	3.0271	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.43525	0.44175	0.0000	1.4940	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.05200	1.02573	0.3000	-2.4969	20.0000
Tetrachloroethene	Averaged	0.52199	0.53407	0.1000	2.3130	20.0000
Toluene	Averaged	1.92716	1.87371	0.4000	-2.7734	20.0000
1,2,3-Trichlorobenzene	Averaged	0.72464	0.69248	0.0000	-4.4381	20.0000
1,2,4-Trichlorobenzene	Averaged	0.88635	0.78226	0.2000	-11.7429	20.0000
1,1,1-Trichloroethane	Averaged	0.45157	0.44972	0.1000	-0.4105	20.0000
1,1,2-Trichloroethane	Averaged	0.32209	0.30990	0.1000	-3.7841	20.0000
Trichloroethene	Averaged	0.33628	0.30227	0.1000	-10.1144	20.0000
Trichlorofluoromethane	Averaged	0.41857	0.48314	0.1000	15.4274	20.0000
1,2,3-Trichloropropane	Averaged	0.33145	0.32929	0.0000	-0.6529	20.0000
1,2,4-Trimethylbenzene	Averaged	2.83450	3.05273	0.0000	7.6989	20.0000
1,3,5-Trimethylbenzene	Averaged	2.79342	2.99430	0.0000	7.1912	20.0000
Vinyl acetate	Averaged	0.58535	0.75396	0.0000	28.8057*	20.0000
Vinyl chloride	Averaged	0.36431	0.22546	0.1000	-38.1123	20.0000
m&p-Xylene	Averaged	0.83435	1.68065	0.1000	101.4316	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22377365CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana | Calibration Date: 01/24/2023 Time: 13:31

Instrument ID: 50MVCB GC Column: Col 1 | Init. Calib. Date(s): 01/16/2023 01/16/2023

Lab File ID: B012423.B\B02CCV.D | Init. Calib. Time(s): 14:21 18:42

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.76897	0.75484	0.3000	-1.8385	20.0000
4-Bromofluorobenzene (S)	Averaged	0.47094	0.48143	0.1000	2.2279	20.0000
Dibromofluoromethane (S)	Averaged	0.22712	0.22408	0.1000	-1.3385	20.0000
Toluene-d8 (S)	Averaged	1.29647	1.27508	0.1000	-1.6495	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22334993CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana | Calibration Date: 01/23/2023 | Time: 11:09

Instrument ID: 50MVDA | GC Column: Col 1 | Init. Calib. Date(s): 01/19/2023 | 01/20/2023

Lab File ID: A012323.B\A02CCV.D | Init. Calib. Time(s): 14:47 | 14:03

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.16007	0.14614	0.0100	-8.7032	20.0000
Acrolein	Averaged	0.07963	0.07846	0.0000	-1.4713	20.0000
Acrylonitrile	Averaged	0.17107	0.15926	0.0000	-6.9039	20.0000
Benzene	Averaged	1.12519	0.98854	0.5000	-12.1442	20.0000
Bromobenzene	Averaged	0.62316	0.51187	0.0000	-17.8591	20.0000
Bromochloromethane	Averaged	0.25594	0.21876	0.0000	-14.5264	20.0000
Bromodichloromethane	Averaged	0.35924	0.32731	0.2000	-8.8880	20.0000
Bromoform	Averaged	0.65214	0.63565	0.1000	-2.5289	20.0000
Bromomethane	Averaged	0.21512	0.17301	0.0500	-19.5734	20.0000
2-Butanone (MEK)	Averaged	0.25008	0.21816	0.0100	-12.7664	20.0000
n-Butylbenzene	Averaged	2.51650	1.95445	0.0000	-22.3344	20.0000
sec-Butylbenzene	Averaged	3.68585	3.02612	0.0000	-17.8991	20.0000
tert-Butylbenzene	Averaged	2.97309	2.19576	0.0000	-26.1456	20.0000
Carbon disulfide	Averaged	0.81580	0.69193	0.1000	-15.1842	20.0000
Carbon tetrachloride	Averaged	0.40345	0.40657	0.1000	0.7730	20.0000
Chlorobenzene	Averaged	1.11720	0.99764	0.5000	-10.7010	20.0000
Chloroethane	Averaged	0.19727	0.16507	0.1000	-16.3256	20.0000
Chloroform	Averaged	0.49624	0.43315	0.2000	-12.7133	20.0000
Chloromethane	Averaged	0.34887	0.25947	0.1000	-25.6247	20.0000
2-Chlorotoluene	Averaged	2.47499	1.89109	0.0000	-23.5921	20.0000
4-Chlorotoluene	Averaged	0.94718	0.82446	0.0000	-12.9566	20.0000
Dibromochloromethane	Averaged	0.42057	0.41069	0.1000	-2.3490	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.38849	0.34739	0.1000	-10.5789	20.0000
Dibromomethane	Averaged	0.18213	0.17718	0.0000	-2.7160	20.0000
1,2-Dichlorobenzene	Averaged	1.38461	1.24952	0.4000	-9.7559	20.0000
1,3-Dichlorobenzene	Averaged	1.62514	1.43674	0.6000	-11.5926	20.0000
1,4-Dichlorobenzene	Averaged	1.63013	1.40440	0.5000	-13.8475	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.19925	0.16179	0.0000	-18.7967	20.0000
Dichlorodifluoromethane	Averaged	0.32788	0.22810	0.1000	-30.4325	20.0000
1,1-Dichloroethane	Averaged	0.48998	0.42309	0.2000	-13.6522	20.0000
1,2-Dichloroethane	Averaged	0.36028	0.31683	0.1000	-12.0585	20.0000
1,1-Dichloroethene	Averaged	0.27093	0.23248	0.1000	-14.1918	20.0000
cis-1,2-Dichloroethene	Averaged	0.35091	0.28991	0.1000	-17.3813	20.0000
trans-1,2-Dichloroethene	Averaged	0.31318	0.26128	0.1000	-16.5729	20.0000
1,2-Dichloropropane	Averaged	0.29470	0.25092	0.1000	-14.8551	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22334993CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana | Calibration Date: 01/23/2023 Time: 11:09

Instrument ID: 50MVDA GC Column: Col 1 | Init. Calib. Date(s): 01/19/2023 01/20/2023

Lab File ID: A012323.B\A02CCV.D | Init. Calib. Time(s): 14:47 14:03

SDG No.: 50335726

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,3-Dichloropropane	Averaged	0.57701	0.47486	0.0000	-17.7024	20.0000
2,2-Dichloropropane	Averaged	0.39296	0.36589	0.0000	-6.8900	20.0000
1,1-Dichloropropene	Averaged	0.35193	0.31230	0.0000	-11.2598	20.0000
cis-1,3-Dichloropropene	Averaged	0.62114	0.51263	0.2000	-17.4682	20.0000
trans-1,3-Dichloropropene	Averaged	0.57923	0.47906	0.1000	-17.2936	20.0000
Ethylbenzene	Averaged	0.62246	0.55058	0.1000	-11.5478	20.0000
Ethyl methacrylate	Averaged	0.59171	0.47810	0.0000	-19.2009	20.0000
Hexachloro-1,3-butadiene	Averaged	0.21656	0.22046	0.0000	1.8032	20.0000
n-Hexane	Averaged	0.48882	0.38474	0.0000	-21.2917	20.0000
2-Hexanone	Averaged	0.56932	0.44727	0.0500	-21.4374	20.0000
Iodomethane	Averaged	0.25357	0.32592	0.0000	28.5315*	20.0000
Isopropylbenzene (Cumene)	Averaged	1.89449	1.67147	0.1000	-11.7717	20.0000
p-Isopropyltoluene	Averaged	3.09329	2.63251	0.0000	-14.8962	20.0000
Methylene Chloride	Wt Linear	50	45.23711	0.1000	-9.5258	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.70995	0.55699	0.1000	-21.5452	20.0000
Methyl-tert-butyl ether	Averaged	0.81259	0.70367	0.1000	-13.4035	20.0000
Naphthalene	Averaged	1.34392	1.11458	0.0000	-17.0650	20.0000
n-Propylbenzene	Averaged	4.62627	3.52688	0.0000	-23.7640	20.0000
Styrene	Averaged	1.25576	1.10001	0.3000	-12.4028	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.40382	0.38583	0.0000	-4.4553	20.0000
1,1,2,2-Tetrachloroethane	Averaged	1.11097	0.83358	0.3000	-24.9681	20.0000
Tetrachloroethene	Averaged	0.45563	0.45089	0.1000	-1.0419	20.0000
Toluene	Averaged	1.82078	1.48879	0.4000	-18.2329	20.0000
1,2,3-Trichlorobenzene	Averaged	0.24455	0.22293	0.0000	-8.8401	20.0000
1,2,4-Trichlorobenzene	Averaged	0.44066	0.40752	0.2000	-7.5209	20.0000
1,1,1-Trichloroethane	Averaged	0.44189	0.40429	0.1000	-8.5084	20.0000
1,1,2-Trichloroethane	Averaged	0.29413	0.24005	0.1000	-18.3870	20.0000
Trichloroethene	Averaged	0.29030	0.26681	0.1000	-8.0897	20.0000
Trichlorofluoromethane	Averaged	0.40277	0.39142	0.1000	-2.8179	20.0000
1,2,3-Trichloropropane	Averaged	0.36620	0.31072	0.0000	-15.1500	20.0000
1,2,4-Trimethylbenzene	Averaged	3.03227	2.47469	0.0000	-18.3884	20.0000
1,3,5-Trimethylbenzene	Averaged	3.03083	2.47657	0.0000	-18.2873	20.0000
Vinyl acetate	Averaged	0.86438	0.79114	0.0000	-8.4734	20.0000
Vinyl chloride	Averaged	0.33716	0.28250	0.1000	-16.2098	20.0000
m&p-Xylene	Averaged	0.76237	0.69176	0.1000	-9.2615	20.0000

* - Value lies outside of established control limits.
The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

SAMPLE NO.

22334993CCV

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana　　Calibration Date: 01/23/2023　Time: 11:09

Instrument ID: 50MVDA　GC Column: Col 1　　Init. Calib. Date(s): 01/19/2023　01/20/2023

Lab File ID: A012323.B\A02CCV.D　　Init. Calib. Time(s): 14:47　14:03

SDG No.: 50335726

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
o-Xylene	Averaged	0.72149	0.64040	0.3000	-11.2393	20.0000
4-Bromofluorobenzene (S)	Averaged	0.41917	0.41979	0.1000	0.1471	20.0000
Dibromofluoromethane (S)	Averaged	0.25541	0.26852	0.1000	5.1357	20.0000
Toluene-d8 (S)	Averaged	1.31148	1.23186	0.1000	-6.0708	20.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/02/2023 6:30

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d
Lab Smp Id: 8260-ICV
Inj Date : 26-JAN-2023 09:06
Operator : tkg   Inst ID: 50mv2a.i
Smp Info : 8260-icv,336828
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012423cal.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:18 TGearhart   Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19   Cal File: a07cal3.d
Als bottle: 3   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	0.974	0.975	(0.221)	37773	35.0900	35.1	
2 Chloromethane	50	1.132	1.139	(0.257)	40911	52.3711	52.4	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	49984	48.2083	48.2	
4 Bromomethane	94	1.332	1.275	(0.302)	21301	32.7848	32.8	
5 Chloroethane	64	1.325	1.325	(0.301)	31349	50.9304	50.9	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	90532	55.6602	55.7	
7 Diethyl ether	74	1.590	1.590	(0.361)	30823	54.2483	54.2	
8 Acrolein	56	1.662	1.662	(0.377)	201507	998.022	998	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	58365	57.2991	57.3	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	49329	56.2935	56.3	
11 Acetone	43	1.741	1.740	(0.395)	68993	203.970	204	
12 Iodomethane	142	1.819	1.819	(0.413)	84572	55.3067	55.3	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	128133	54.7327	54.7	
14 Acetonitrile	39	1.927	1.927	(0.437)	38074	236.891	237	
15 allyl chloride	41	1.927	1.927	(0.437)	62489	44.7703	44.8	
16 Methyl Acetate	43	1.934	1.934	(0.439)	184316	230.061	230	
17 Methylene Chloride	84	2.006	2.006	(0.455)	51515	45.9887	46.0	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	24059	199.188	199(Q)	
19 Acrylonitrile	53	2.156	2.156	(0.489)	102805	262.109	262	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	155352	54.0613	54.1	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	54028	53.8927	53.9	
22 n-Hexane	57	2.392	2.392	(0.543)	72670	57.2410	57.2	
23 1,1-Dichloroethane	63	2.500	2.507	(0.568)	84366	53.7822	53.8	

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d Page 2
Report Date: 02-Feb-2023 19:52

	QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
24 Vinyl Acetate	43	2.536	2.536	(0.576)	457270	225.601	226	
25 Diisopropyl ether	45	2.557	2.557	(0.581)	130946	51.3928	51.4	
26 chloroprene	53	2.579	2.579	(0.585)	74194	54.8883	54.9	
27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	145581	53.3531	53.4	
28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	59546	53.4093	53.4(Q)	
29 2,2-Dichloropropane	77	3.023	3.023	(0.686)	82185	60.3035	60.3	
30 2-Butanone	43	3.037	3.037	(0.689)	118710	252.335	252	
31 Propionitrile	54	3.094	3.101	(0.702)	33347	267.550	268	
32 Ethyl Acetate	88	3.109	3.109	(0.706)	16895	261.071	261	
33 Methacrylonitrile	41	3.259	3.259	(0.740)	151313	266.868	267	
34 Bromochloromethane	49	3.273	3.266	(0.743)	32803	51.7075	51.7	
35 Tetrahydrofuran	42	3.338	3.338	(0.758)	87395	261.682	262	
36 Chloroform	83	3.367	3.367	(0.764)	95576	51.9746	52.0	
$ 37 Dibromofluoromethane (S)	113	3.553	3.553	(0.807)	59879	50.9035	50.9	
38 1,1,1-Trichloroethane	97	3.589	3.581	(0.815)	90914	55.4053	55.4	
39 Cyclohexane	56	3.660	3.660	(0.831)	78060	55.1031	55.1	
40 Carbon Tetrachloride	117	3.796	3.803	(0.862)	80843	54.8686	54.9	
41 1,1-Dichloropropene	75	3.796	3.803	(0.862)	70553	57.5390	57.5	
42 Isobutyl alcohol	43	3.990	3.990	(0.906)	6806	238.136	238	
43 Benzene	78	4.054	4.061	(0.920)	198998	50.5480	50.5	
44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	70440	51.4403	51.4	
45 2,2,4-Trimethylpentane	57	4.434	4.405	(1.007)	41286	52.0999	52.1	
46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	146654	50.6165	50.6	
* 47 Fluorobenzene	96	4.405	4.405	(1.000)	217118	50.0000	(Q)	
48 Trichloroethene	95	4.835	4.835	(1.098)	57300	52.8294	52.8	
49 Methylcyclohexane	55	5.050	5.050	(1.146)	64706	53.6004	53.6	
50 1,2-Dichloropropane	63	5.079	5.079	(1.153)	46551	51.8740	51.9	
51 Dibromomethane	93	5.200	5.200	(1.180)	35029	54.3731	54.4	
52 1,4-Dioxane	88	5.165	5.258	(1.172)	4361	1267.48	1270(QR)	
53 Methyl methacrylate	69	5.258	5.258	(1.193)	44911	55.4404	55.4	
54 Bromodichloromethane	83	5.387	5.387	(1.223)	72997	56.6280	56.6	
55 2-Chloroethyl vinyl ether	63	5.738	5.738	(0.785)	177009	263.216	263	
56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	85922	55.4957	55.5	
57 4-Methyl-2-Pentanone	43	6.046	6.046	(0.827)	290320	250.080	250	
$ 58 Toluene-d8	98	6.132	6.131	(0.839)	213308	49.8793	49.9	
59 Toluene	91	6.196	6.203	(0.848)	231367	49.5592	49.6	
60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	79918	54.8355	54.8	
61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	74520	53.0156	53.0	
62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	40108	52.6315	52.6	
63 Tetrachloroethene	166	6.697	6.697	(0.917)	76095	52.9861	53.0	
64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	78988	50.9462	50.9	
65 2-Hexanone	43	6.812	6.812	(0.932)	216301	261.094	261	
66 Dibromochloromethane	129	6.898	6.898	(0.944)	63087	54.6818	54.7	
67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	56092	55.0555	55.0	
* 68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	168236	50.0000		
69 Chlorobenzene	112	7.328	7.328	(1.003)	162035	50.5515	50.6	
70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	60181	53.1242	53.1	
71 Ethylbenzene	106	7.407	7.407	(1.014)	86738	50.8920	50.9	
72 m&p-Xylene	106	7.485	7.485	(1.025)	213017	100.057	100	
73 o-Xylene	106	7.722	7.722	(1.057)	101551	50.1882	50.2	
74 Styrene	104	7.729	7.736	(1.058)	175481	50.7448	50.7	
75 Bromoform	173	7.836	7.836	(0.910)	48204	45.9967	46.0	
76 Isopropylbenzene	105	7.937	7.937	(1.086)	274992	50.4283	50.4	
$ 77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	81791	50.2997	50.3	

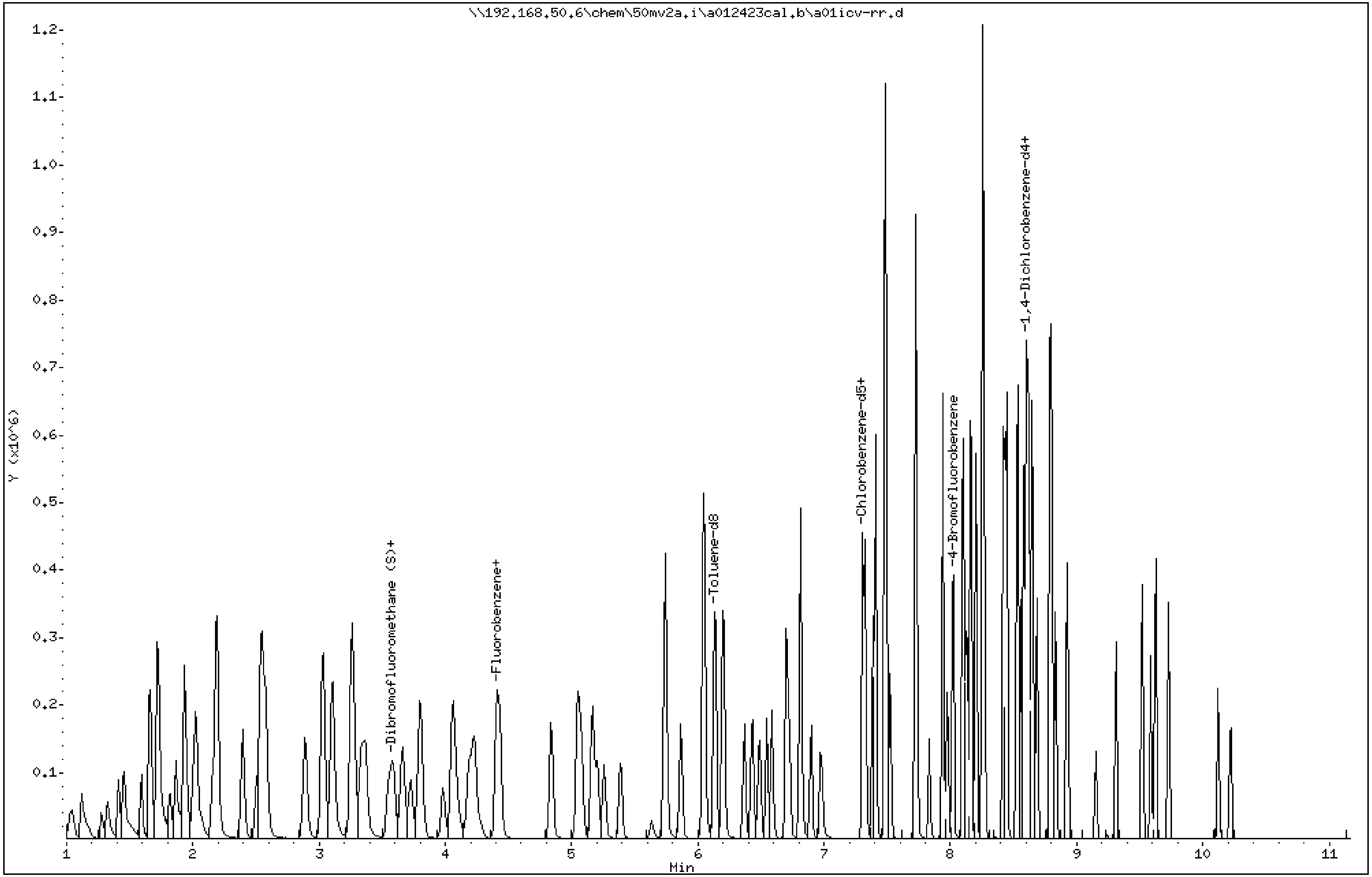
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	91050	47.5601	47.6	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	71007	52.8544	52.8	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	25311	51.8419	51.8	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	21640	53.8620	53.9	
82 n-Propylbenzene	91	8.159	8.159	(0.948)	311579	50.6503	50.6	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	180854	50.6532	50.6	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	226373	50.3758	50.4	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	69898	51.8584	51.8	
86 tert-Butylbenzene	119	8.424	8.424	(0.978)	212954	46.0788	46.1	
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	226606	49.2839	49.3	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	281592	50.8185	50.8	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	131156	49.3318	49.3	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	243042	49.5622	49.6	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	92246	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	134284	51.3445	51.3	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	214906	49.8229	49.8	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	200405	51.1575	51.2	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	119219	50.3147	50.3	
96 Hexachloroethane	201	8.925	8.925	(1.037)	40724	55.0482	55.0	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	17478	48.6639	48.7	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	69900	49.4298	49.4	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	35986	51.9812	52.0	
100 Naphthalene	128	9.627	9.627	(1.118)	190892	51.7597	51.8	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	58377	52.3484	52.3	
102 2,methyl-naphthalene	142	10.121	10.129	(1.176)	65087	51.8780	51.9	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	53879	50.1980	50.2	

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\a012423cal.b\a01icv-rr.d
Date : 26-JAN-2023 09:06
Client ID:
Sample Info: 8260-ICV,336828
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv2a.i
Operator: tkg
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d

Date : 26-JAN-2023 09:06

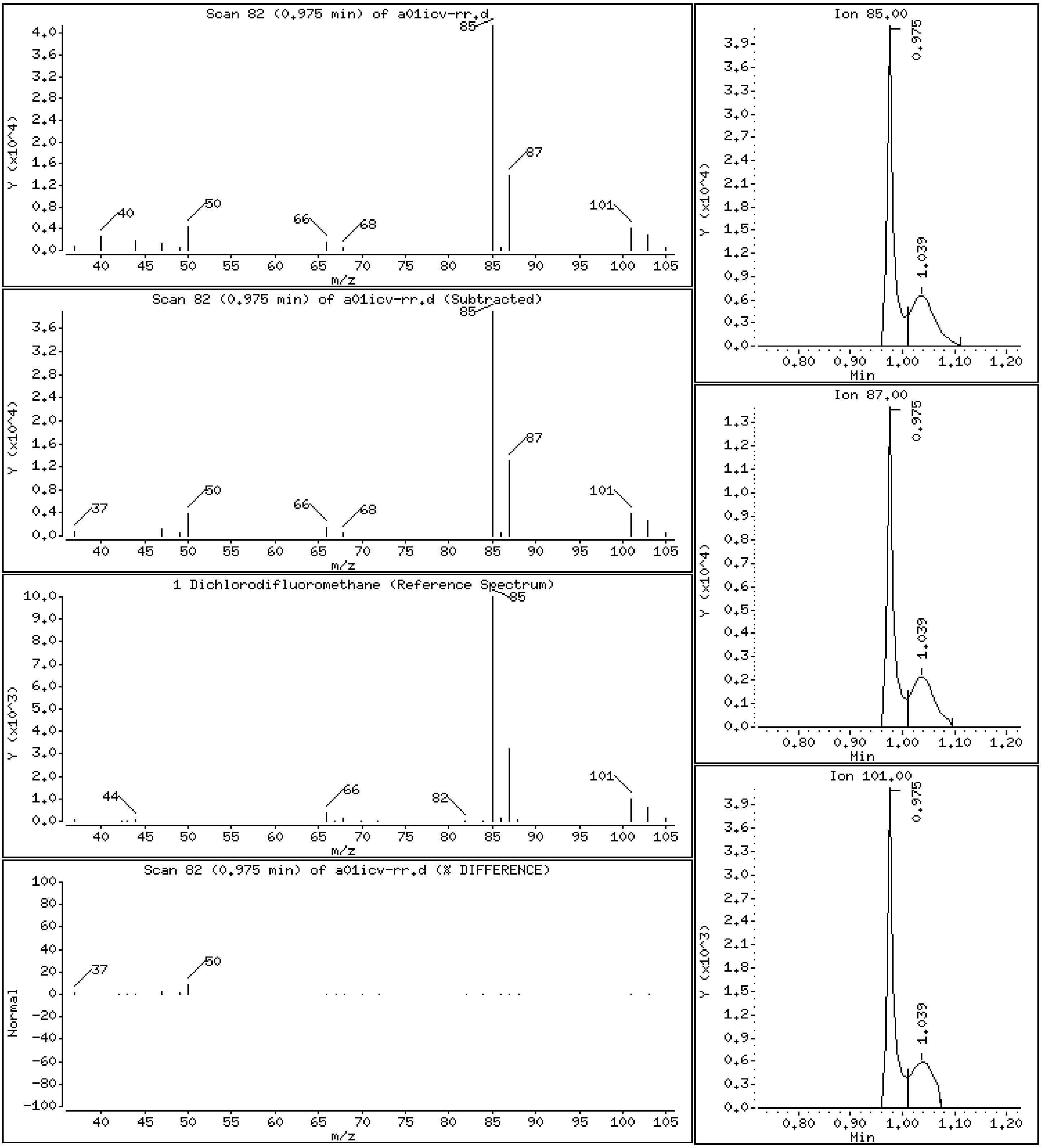
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

1 Dichlorodifluoromethane Concentration: 35.1 ppb Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d Page 6

Date : 26-JAN-2023 09:06

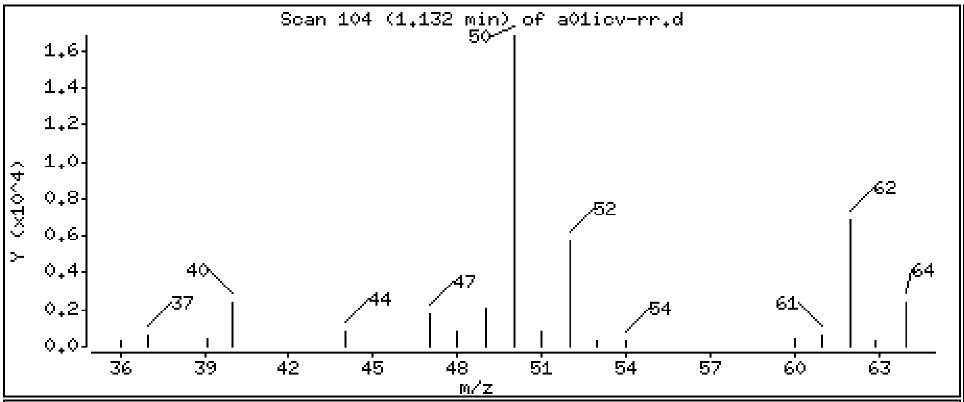
Client ID: Instrument: 50mv2a.i

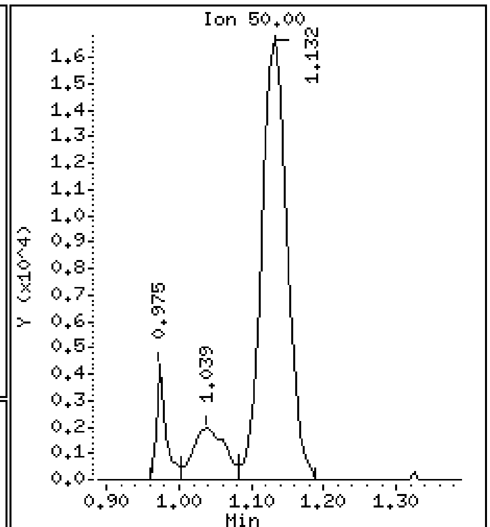
Sample Info: 8260-ICV,336828

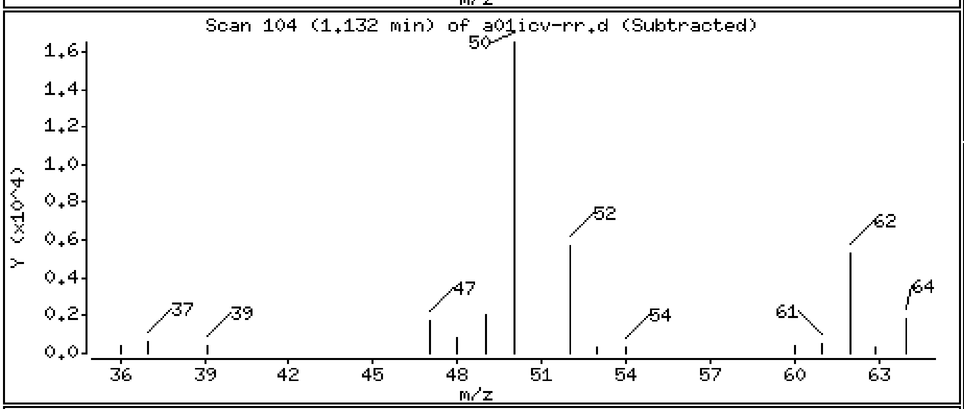
Purge Volume: 5.0 Operator: tkg

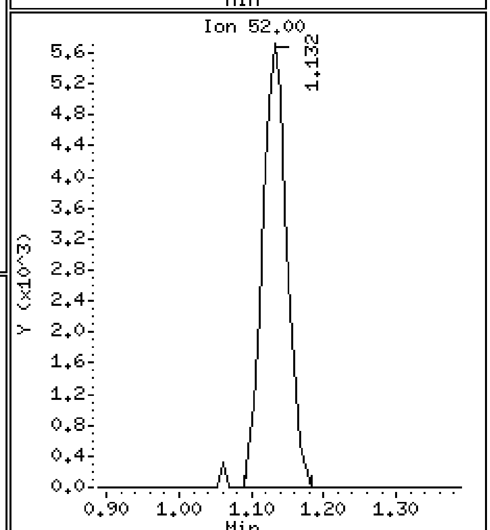
Column phase: DB-624 Column diameter: 0.18

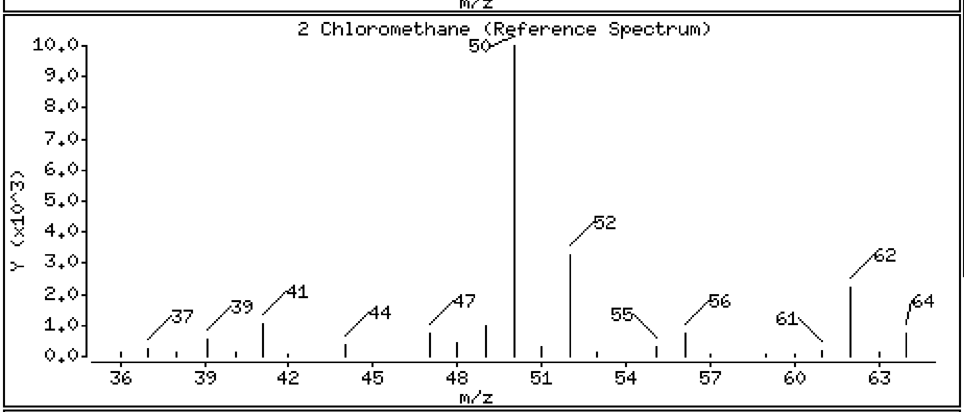
2 Chloromethane Concentration: 52.4 ppb Review Code:

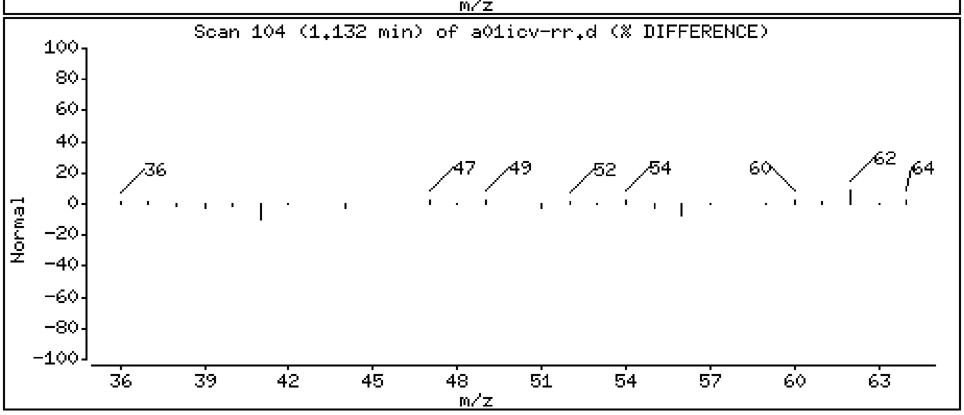












Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d

Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

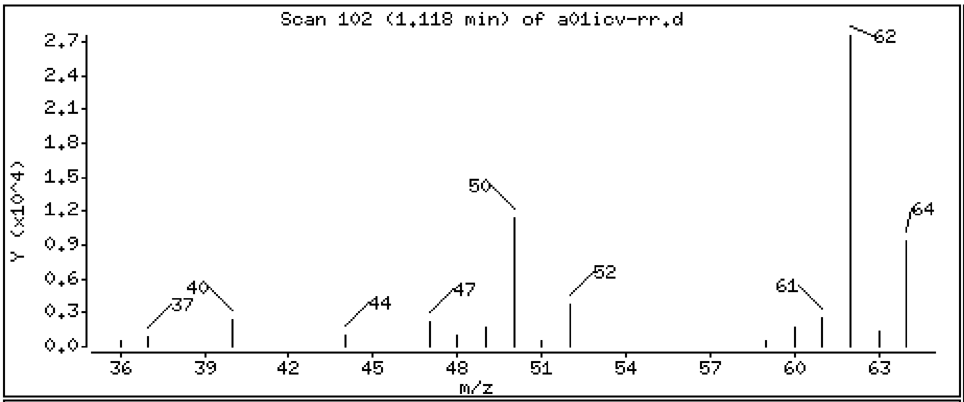
Column phase: DB-624

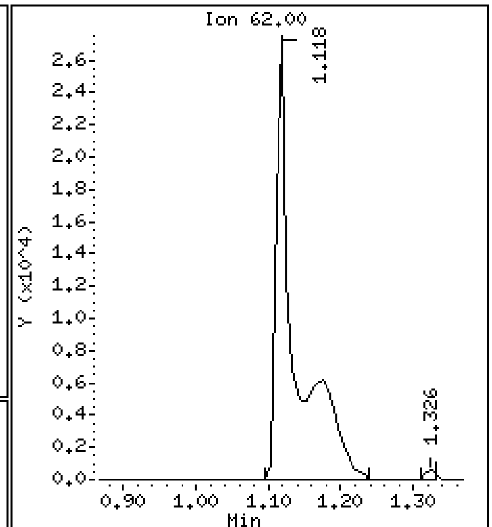
Column diameter: 0.18

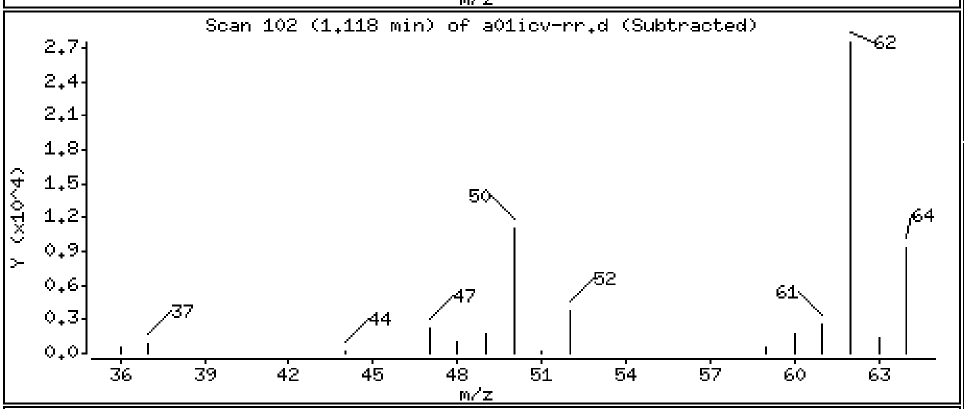
3 Vinyl Chloride

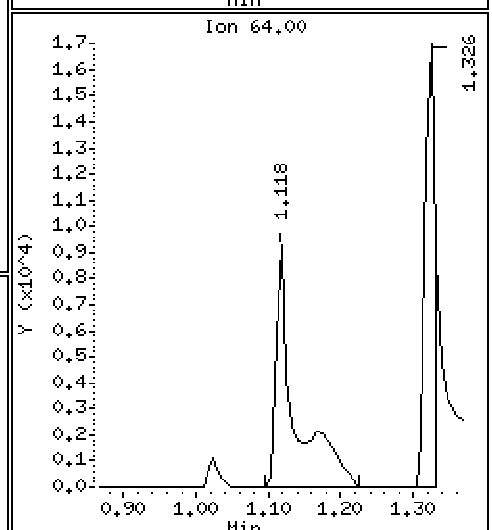
Concentration: 48.2 ppb

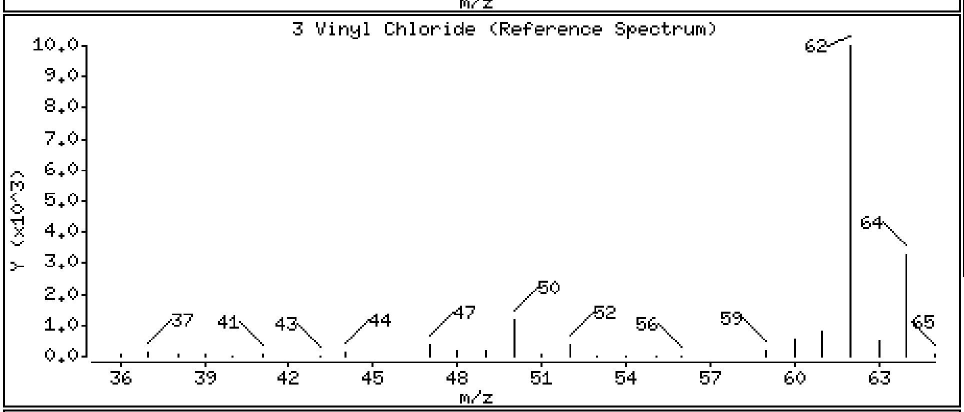
Review Code:

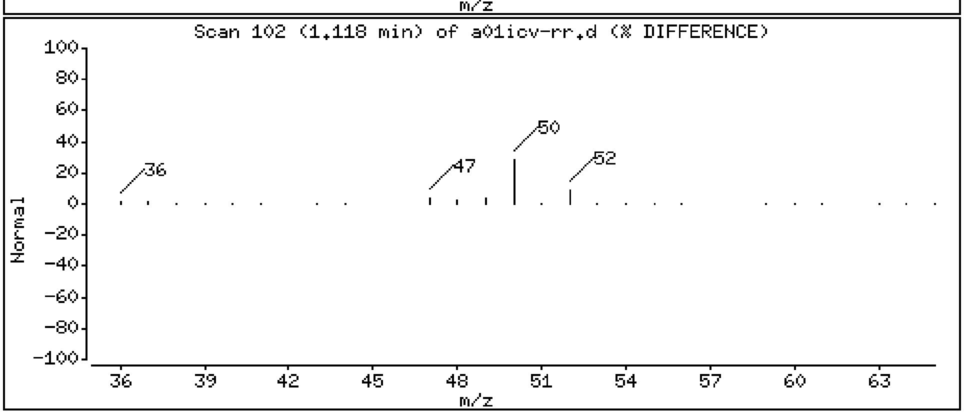












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Date : 26-JAN-2023 09:06

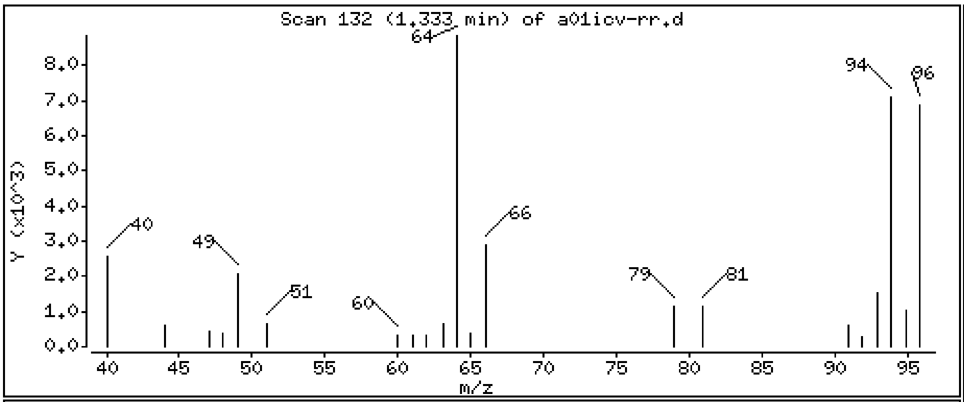
Client ID: Instrument: 50mv2a.i

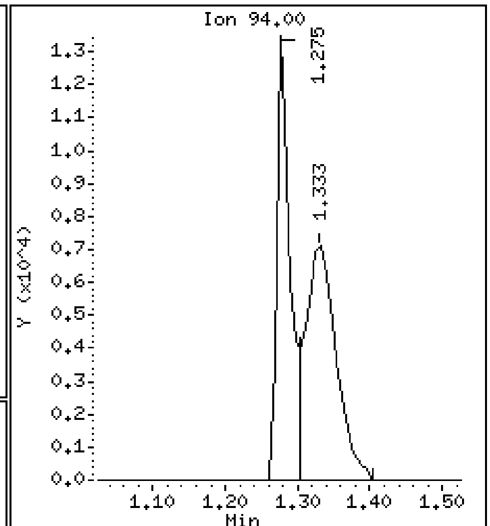
Sample Info: 8260-ICV,336828

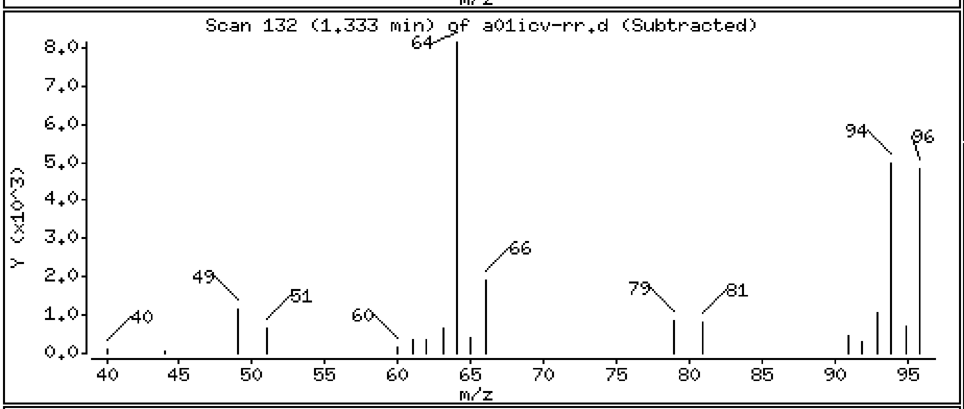
Purge Volume: 5.0 Operator: tkg

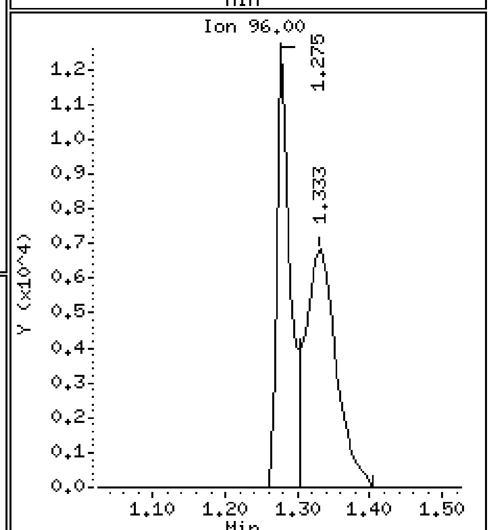
Column phase: DB-624 Column diameter: 0.18

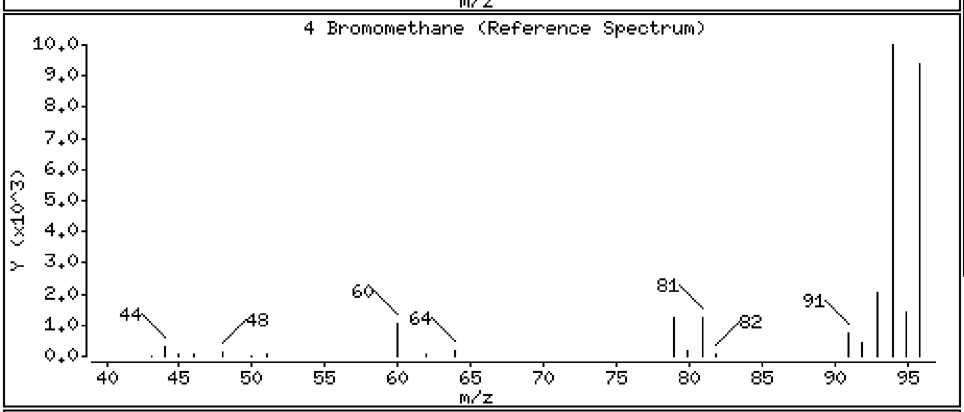
4 Bromomethane Concentration: 32.8 ppb Review Code:

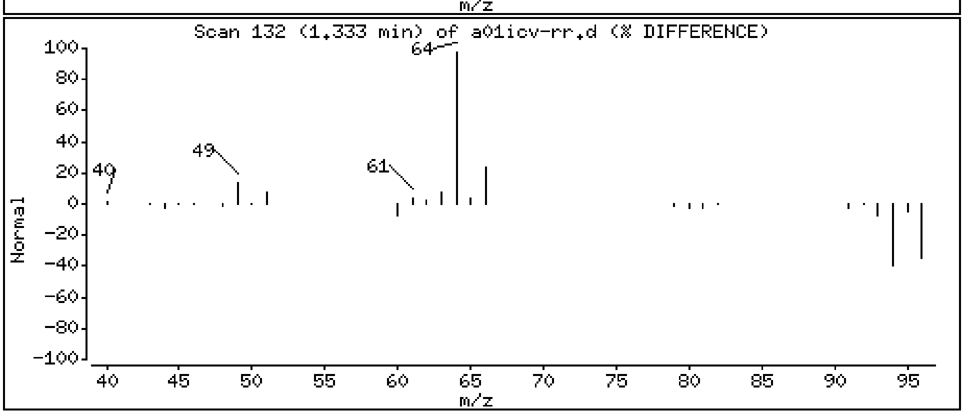












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Date : 26-JAN-2023 09:06

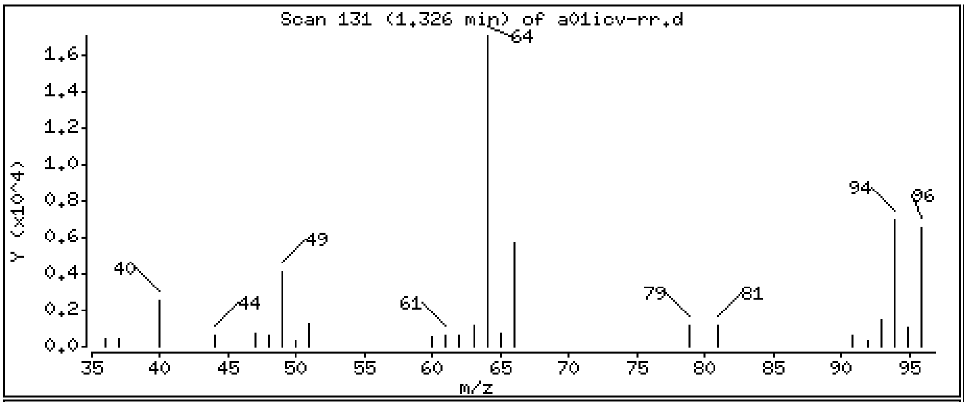
Client ID: Instrument: 50mv2a.i

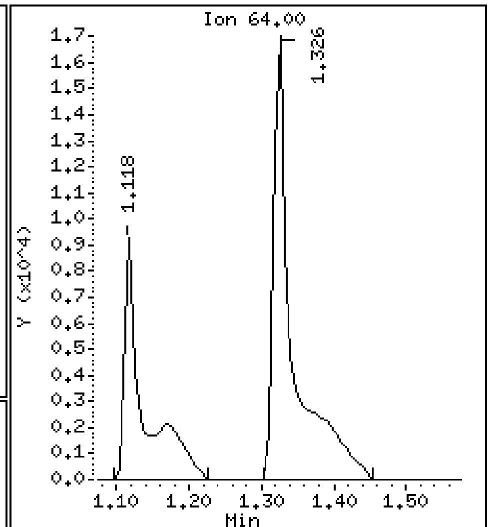
Sample Info: 8260-ICV,336828

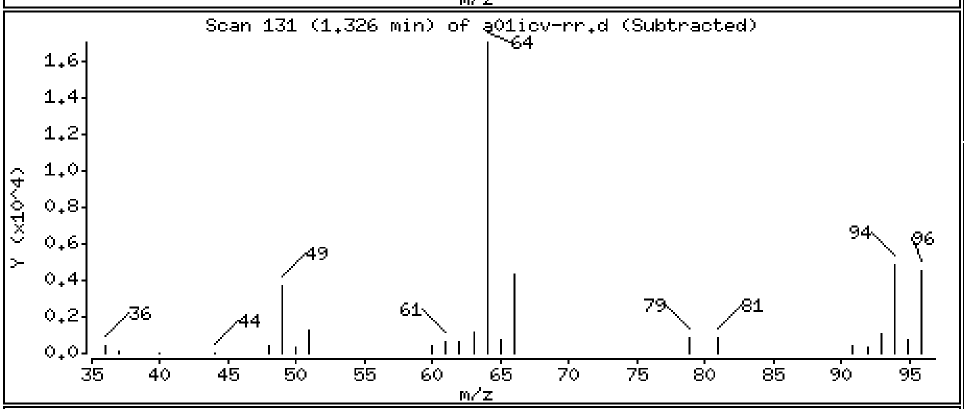
Purge Volume: 5.0 Operator: tkg

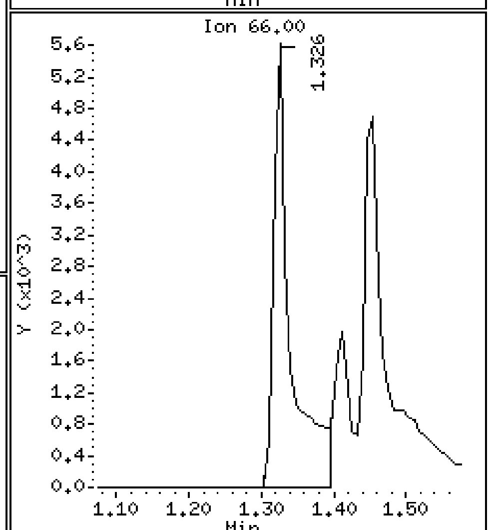
Column phase: DB-624 Column diameter: 0.18

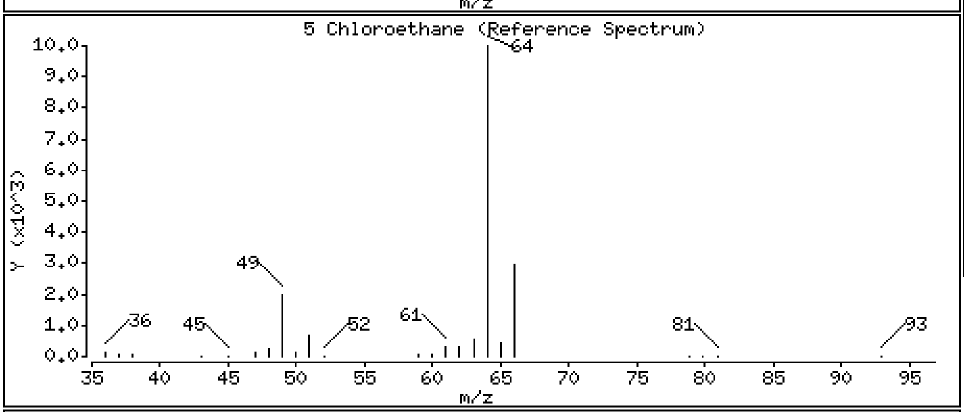
5 Chloroethane Concentration: 50.9 ppb Review Code:

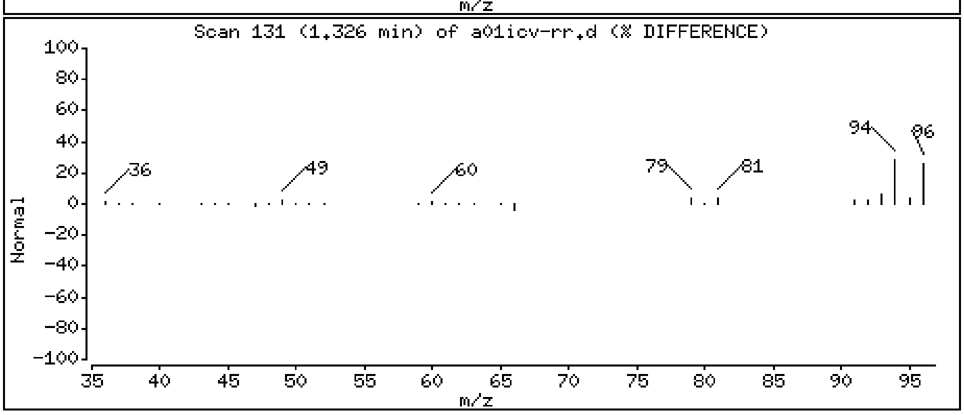












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Date : 26-JAN-2023 09:06

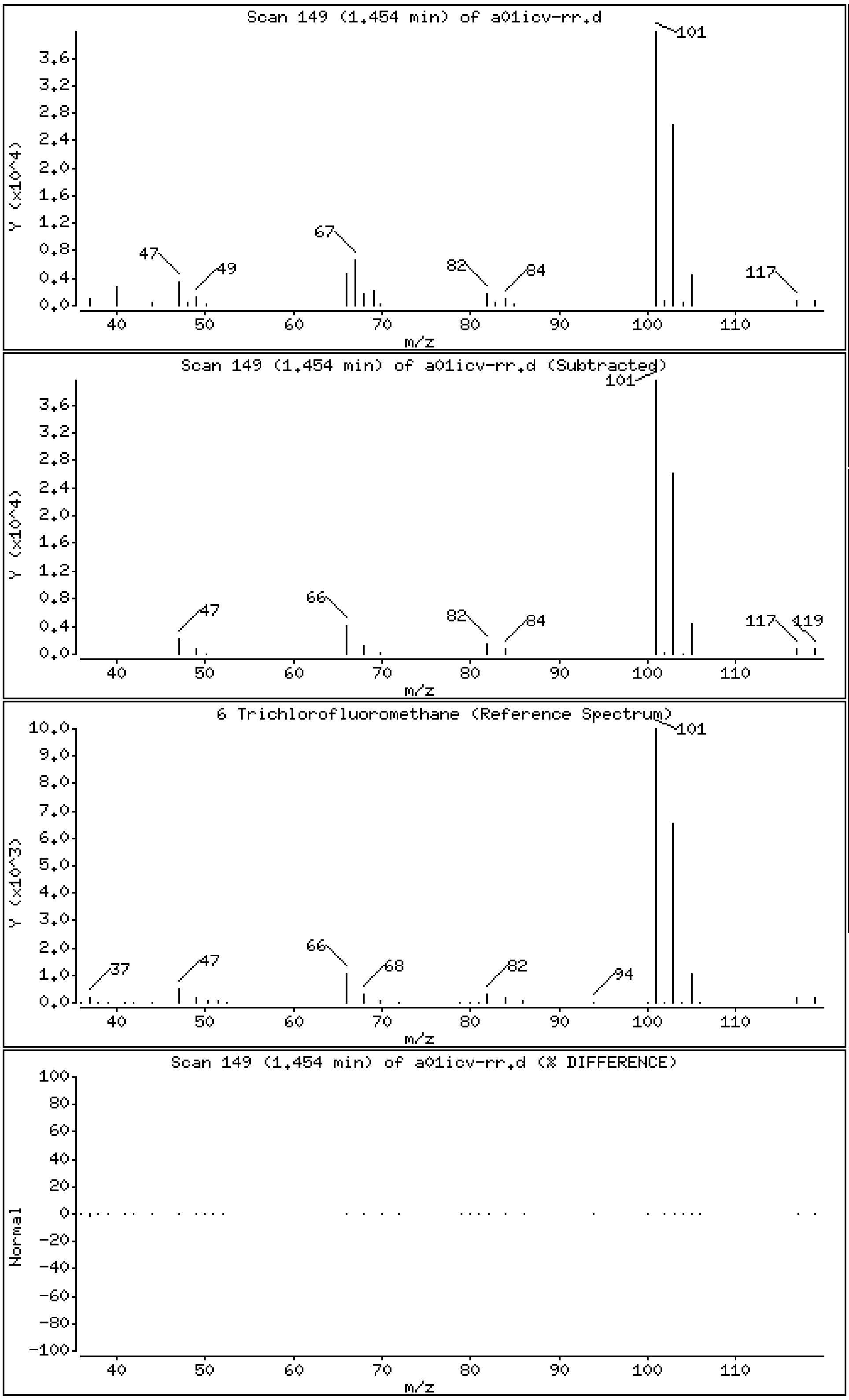
Client ID: Instrument: 50mv2a.i

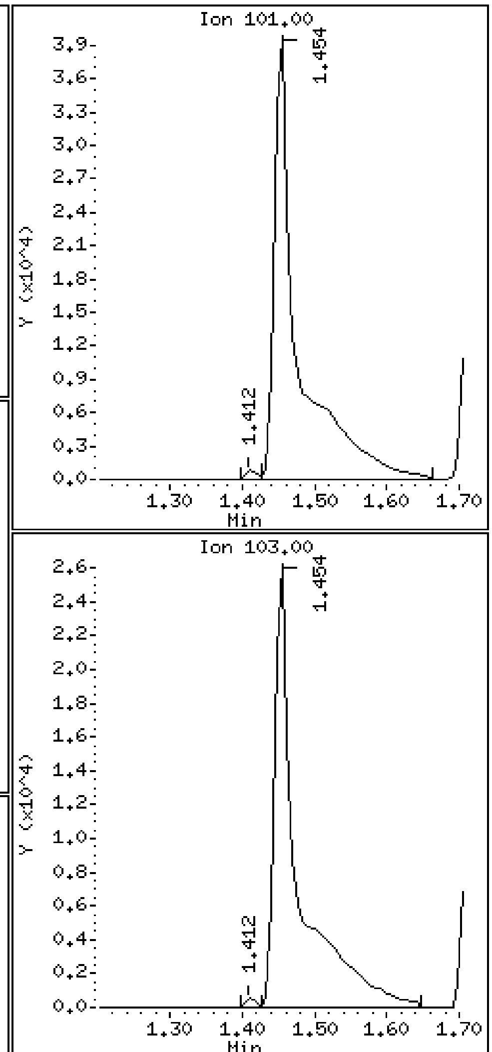
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

6 Trichlorofluoromethane Concentration: 55.7 ppb Review Code:





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Date : 26-JAN-2023 09:06

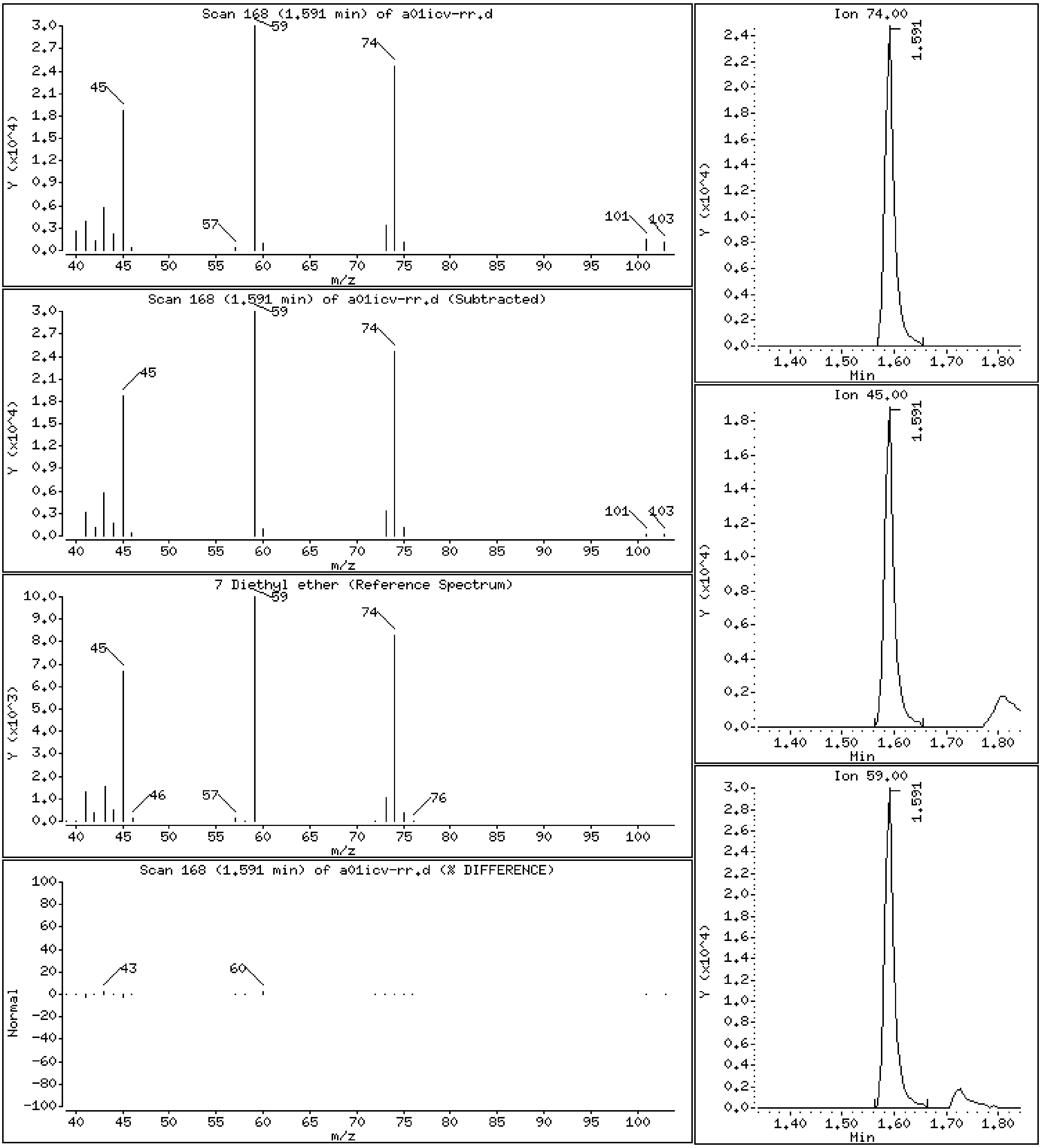
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

7 Diethyl ether Concentration: 54.2 ppb Review Code:



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Date : 26-JAN-2023 09:06

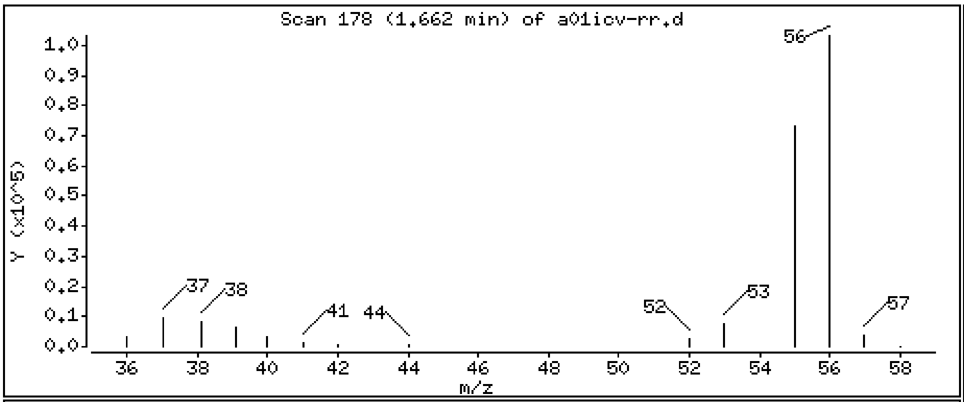
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

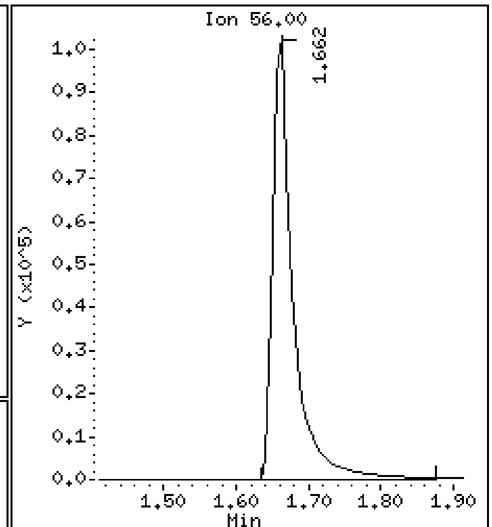
Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

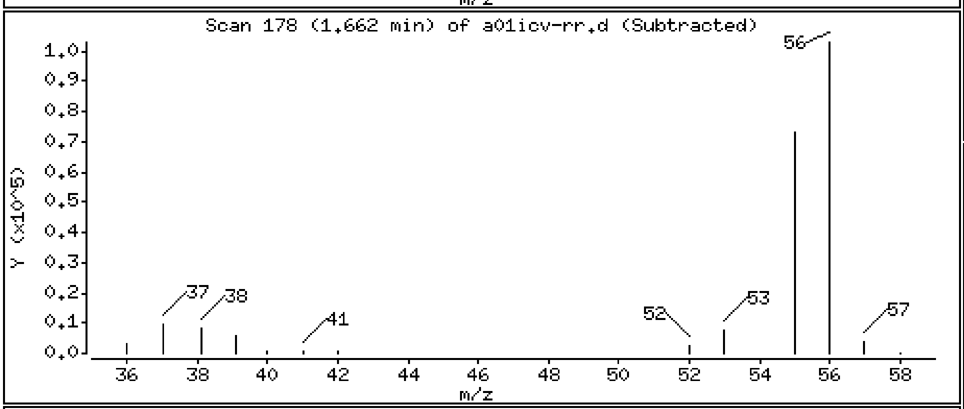
8 Acrolein Concentration: 998 ppb Review Code:



Scan 178 (1.662 min) of a01icv-rr.d



Ion 56.00



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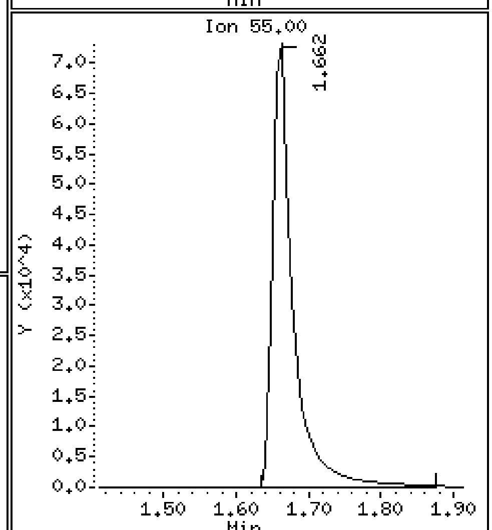
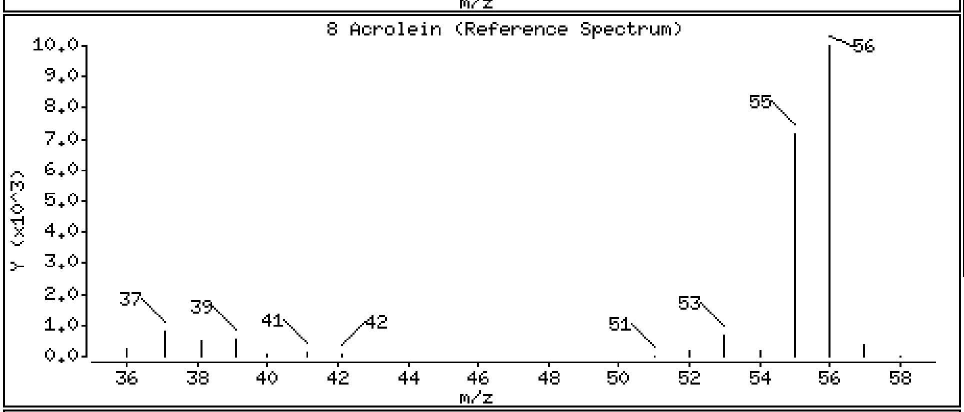
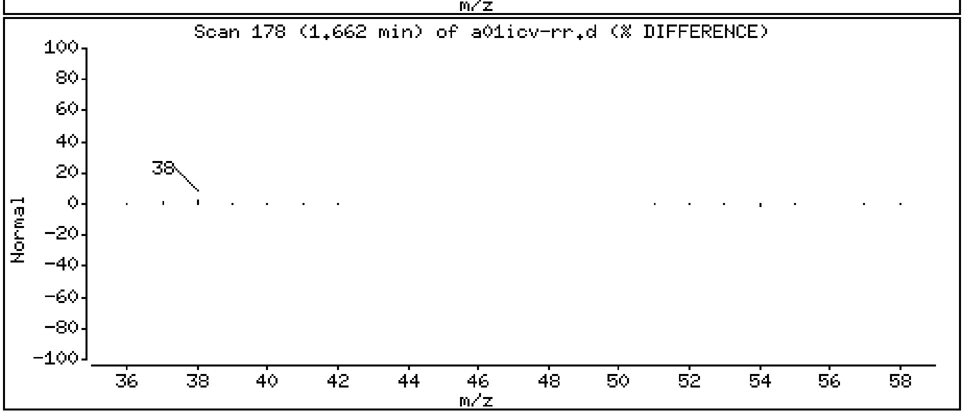


Ion 55.00



8 Acrolein (Reference Spectrum)



Scan 178 (1.662 min) of a01icv-rr.d (% DIFFERENCE)

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Date : 26-JAN-2023 09:06

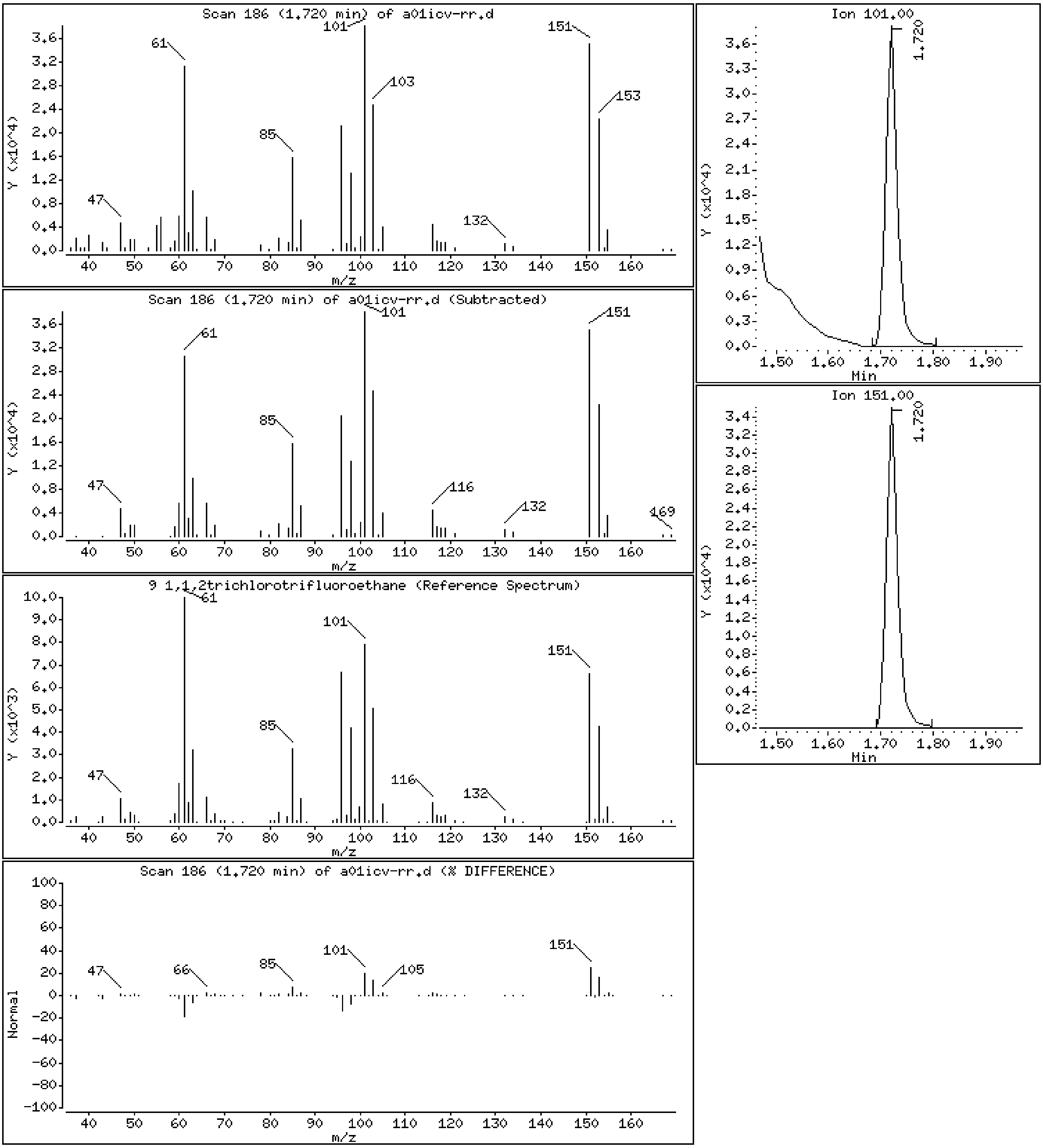
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

9 1,1,2trichlorotrifluoroethane Concentration: 57.3 ppb Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d Page 14

Date : 26-JAN-2023 09:06

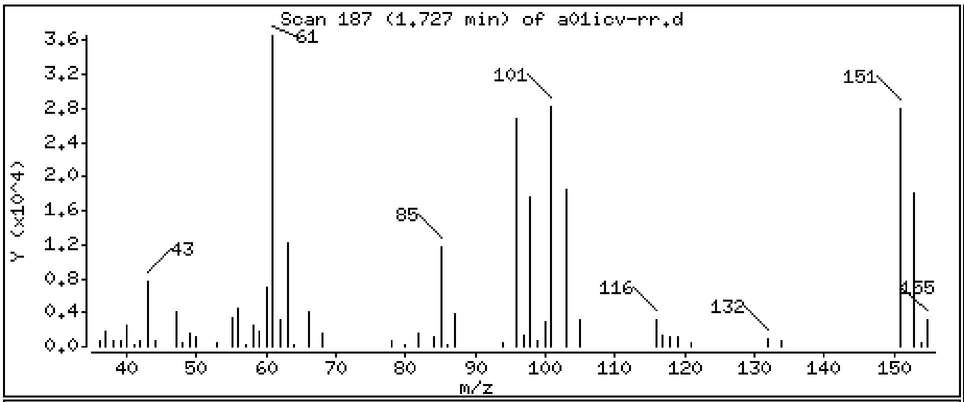
Client ID: Instrument: 50mv2a.i

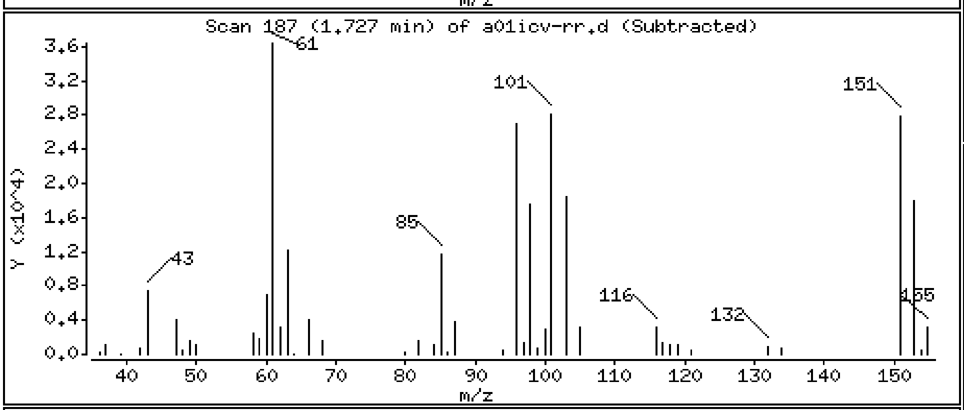
Sample Info: 8260-ICV,336828

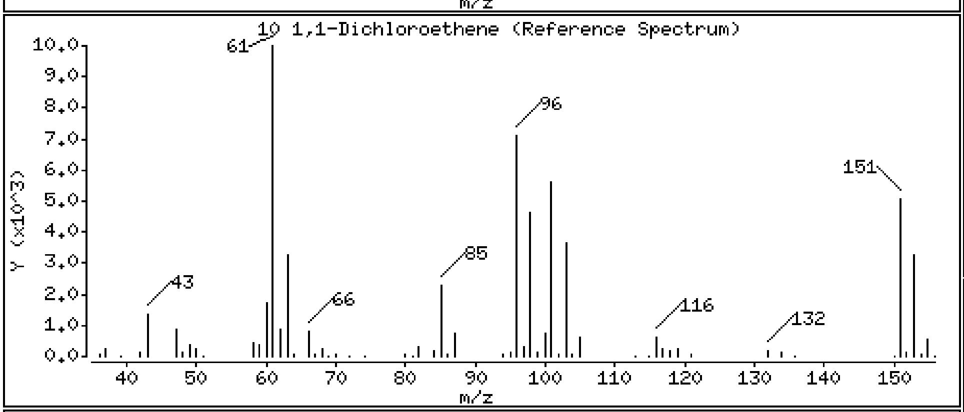
Purge Volume: 5.0 Operator: tkg

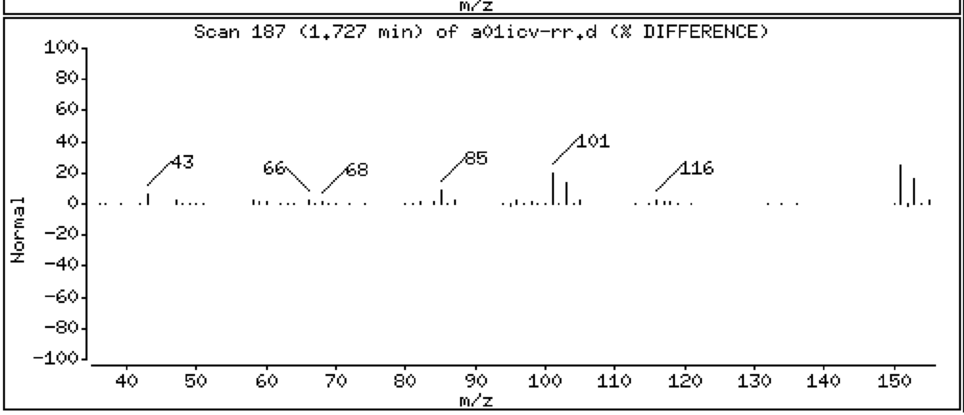
Column phase: DB-624 Column diameter: 0.18

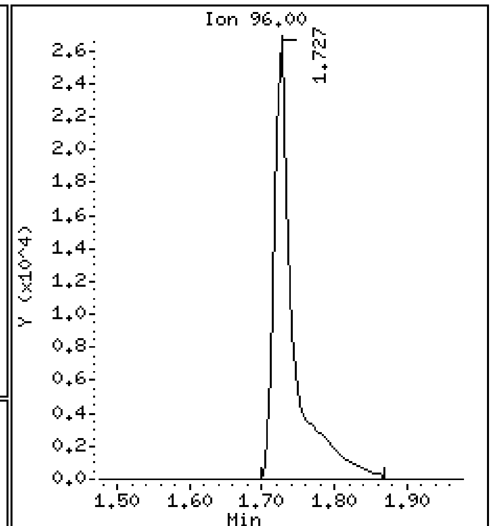
10 1,1-Dichloroethene Concentration: 56.3 ppb Review Code:

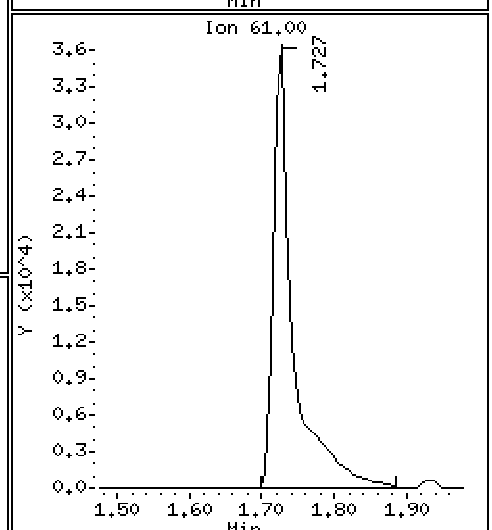


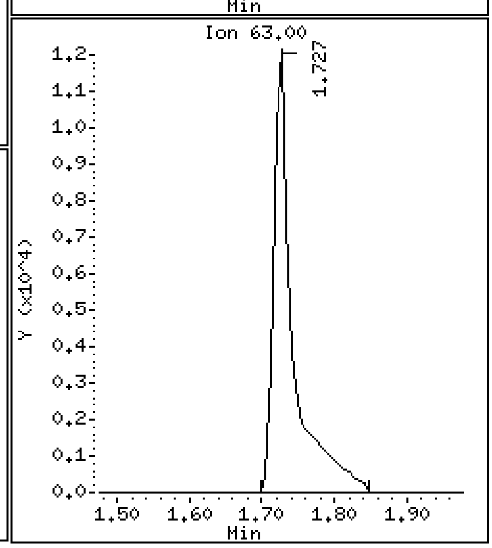












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Date : 26-JAN-2023 09:06

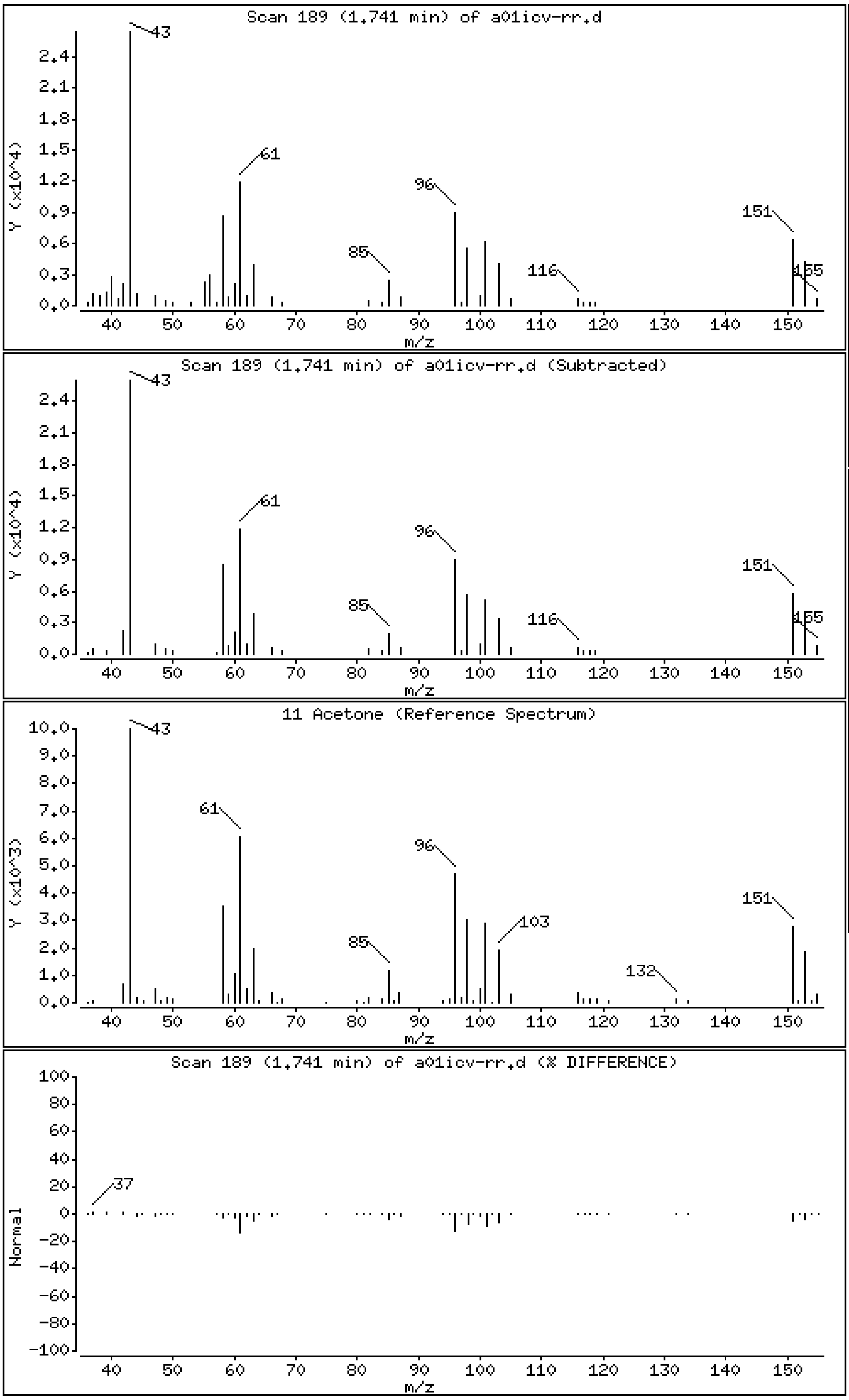
Client ID: Instrument: 50mv2a.i

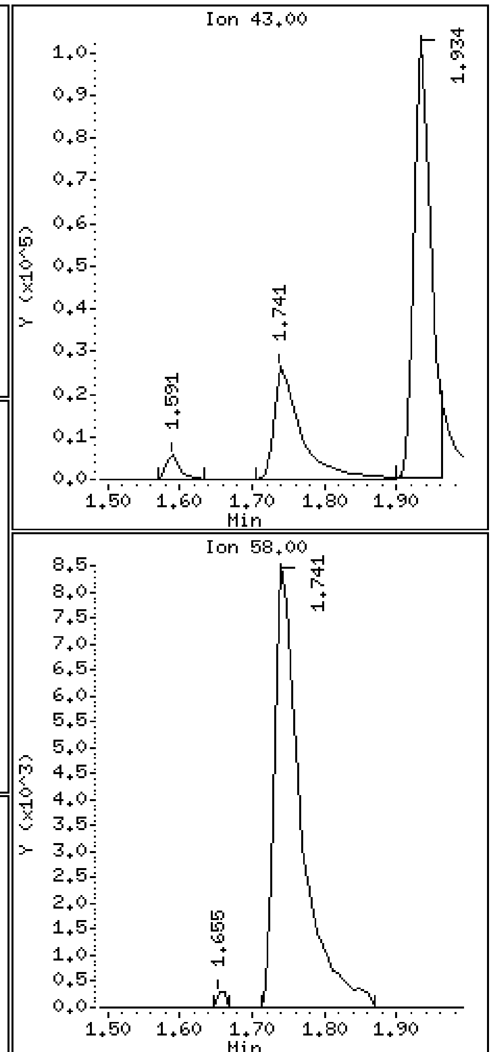
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

11 Acetone Concentration: 204 ppb Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

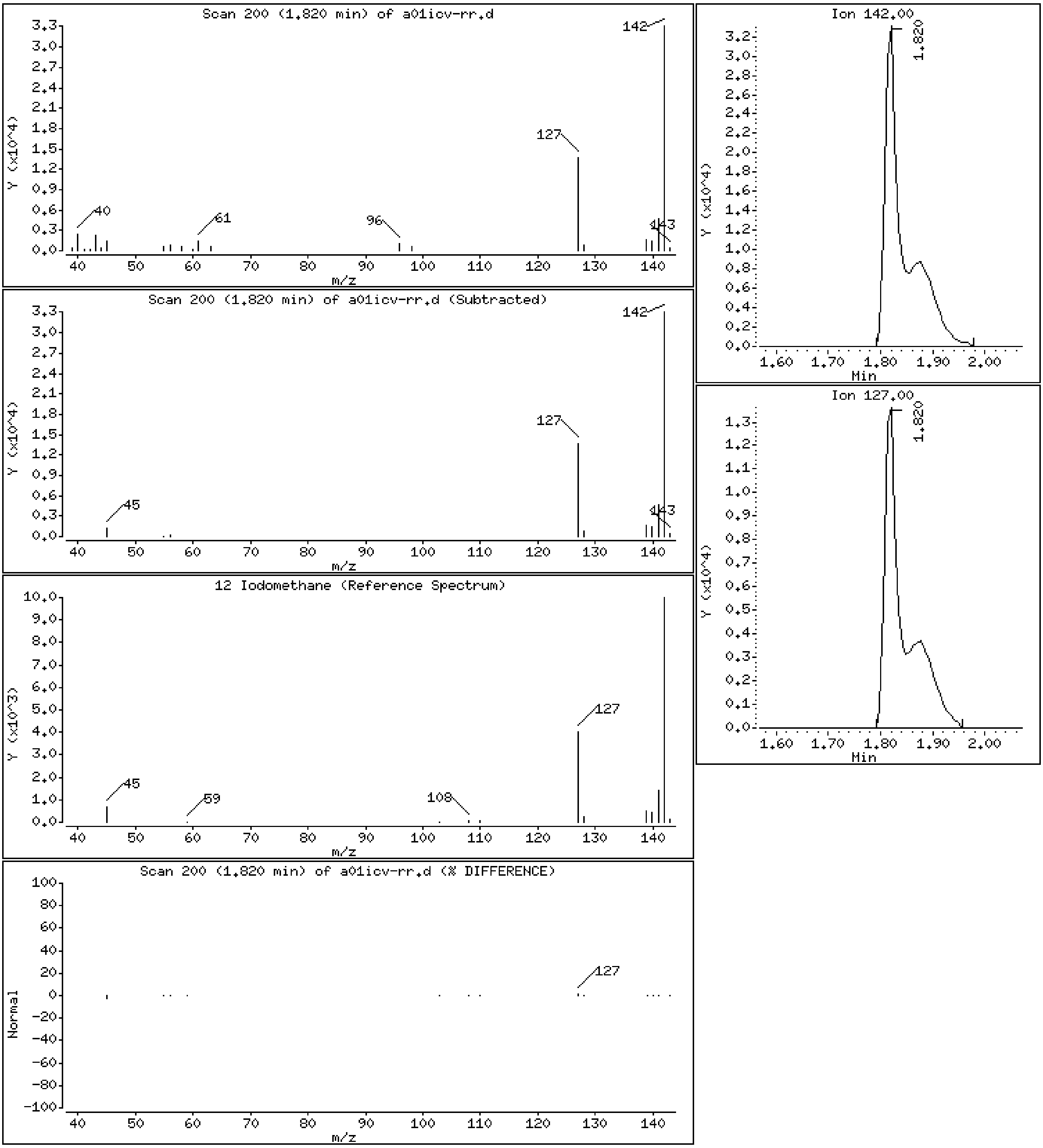
Column phase: DB-624

Column diameter: 0.18

12 Iodomethane

Concentration: 55.3 ppb

Review Code:



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Date : 26-JAN-2023 09:06

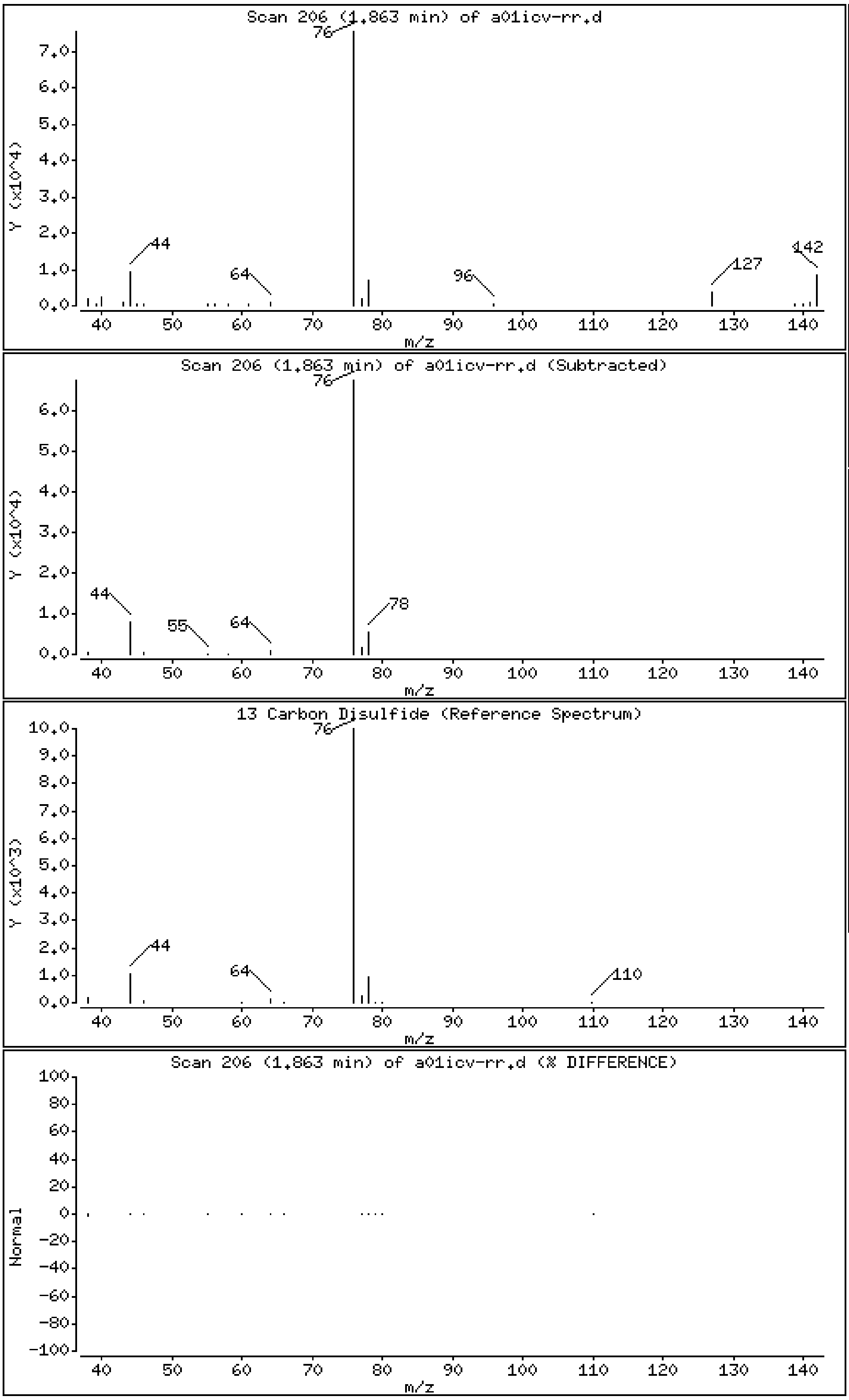
Client ID: Instrument: 50mv2a.i

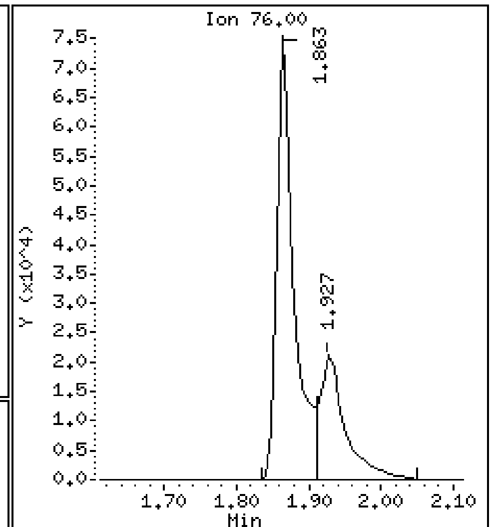
Sample Info: 8260-ICV,336828

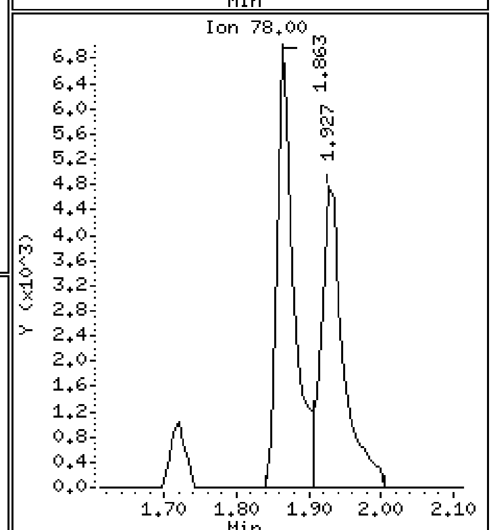
Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

13 Carbon Disulfide Concentration: 54.7 ppb Review Code:







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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

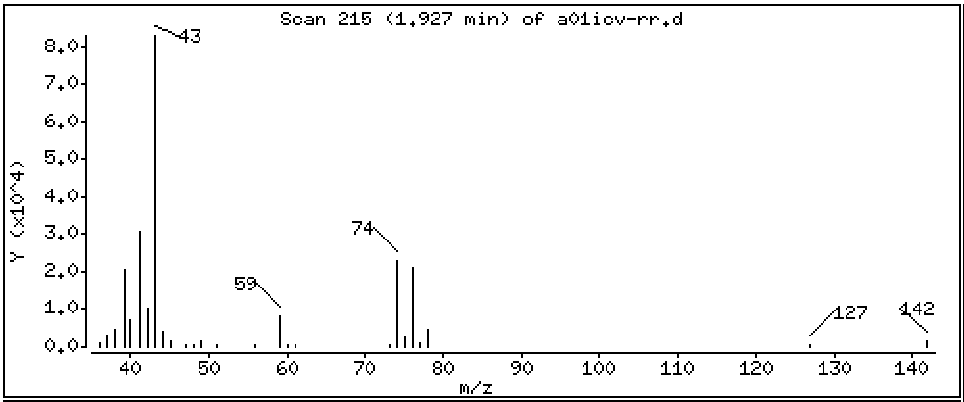
Column phase: DB-624

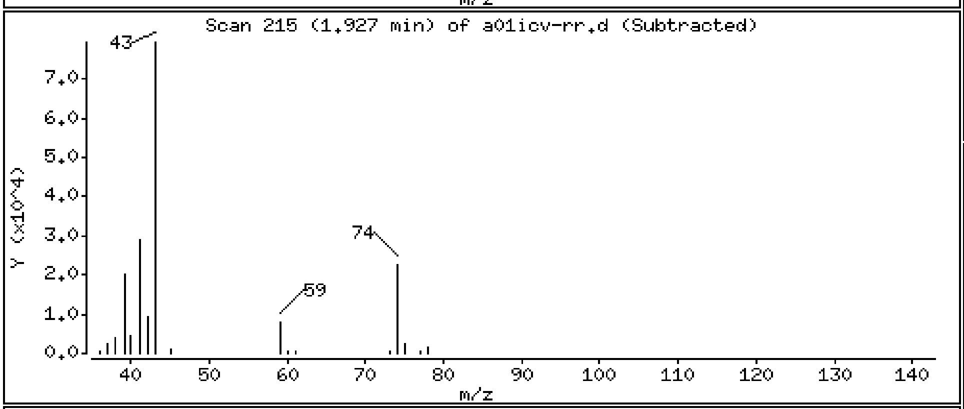
Column diameter: 0.18

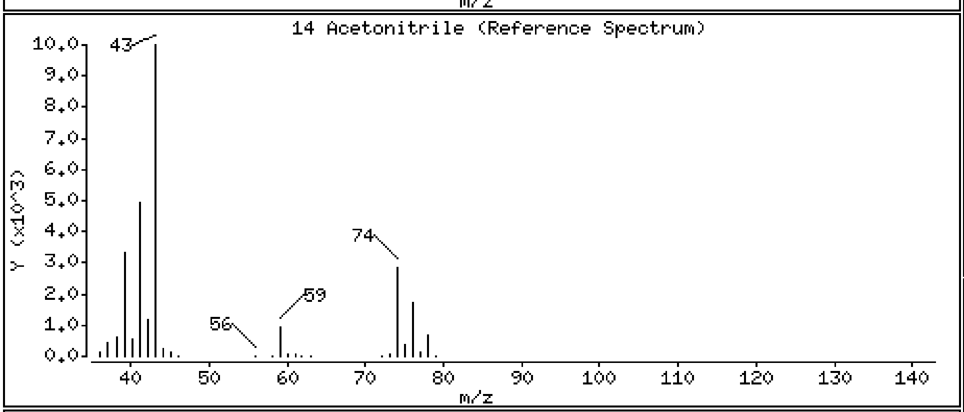
14 Acetonitrile

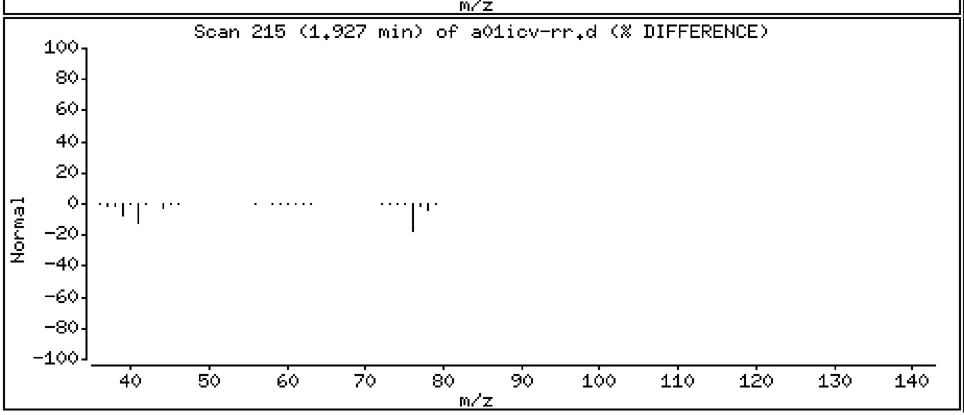
Concentration: 237 ppb

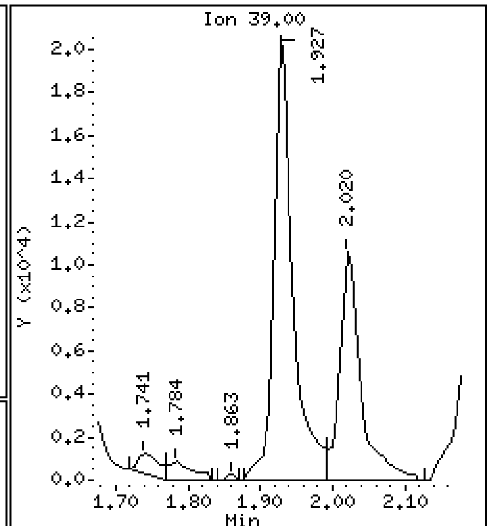
Review Code:

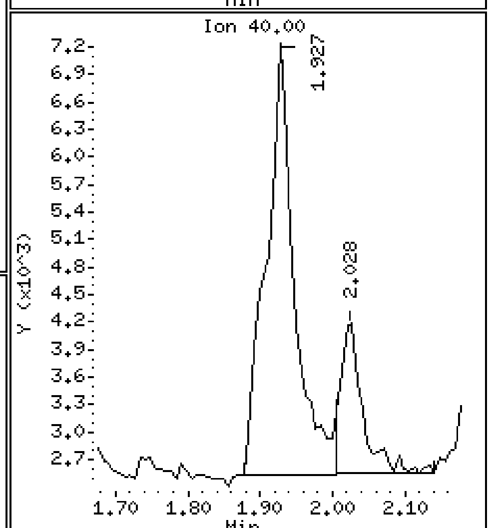


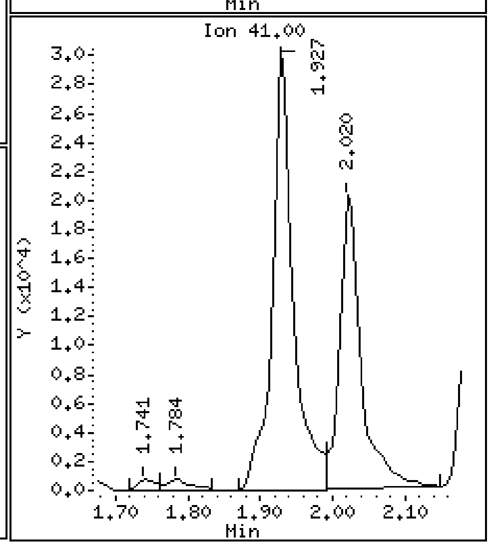












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

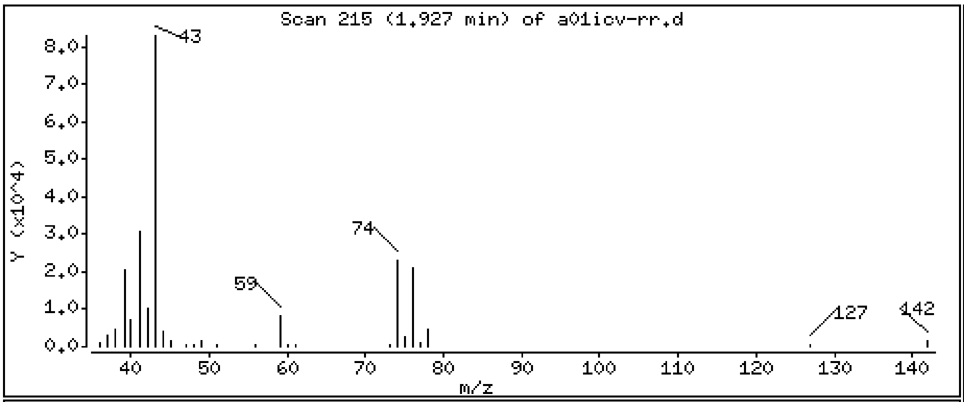
Column phase: DB-624

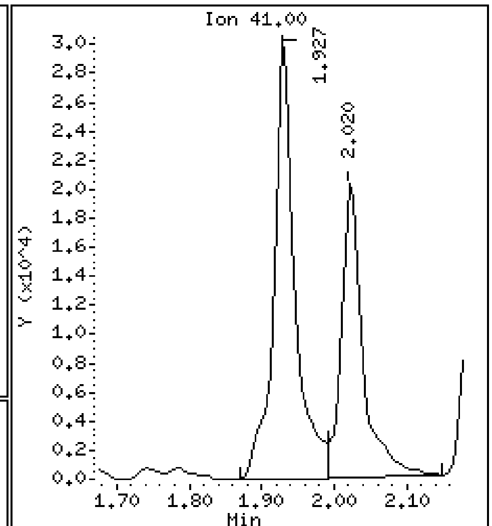
Column diameter: 0.18

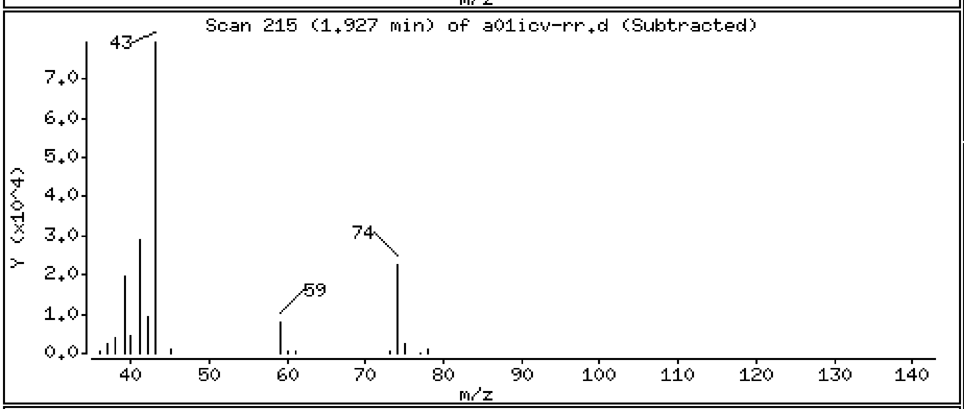
15 allyl chloride

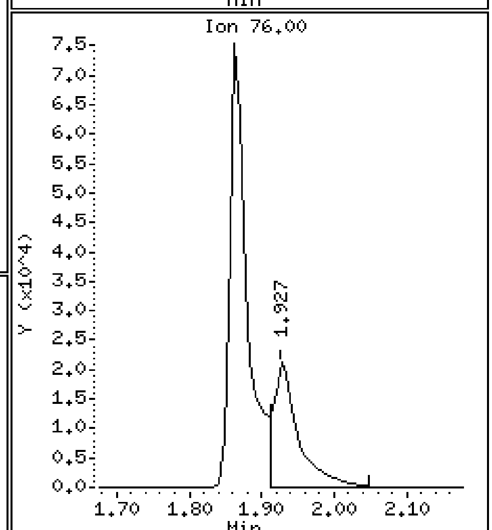
Concentration: 44.8 ppb

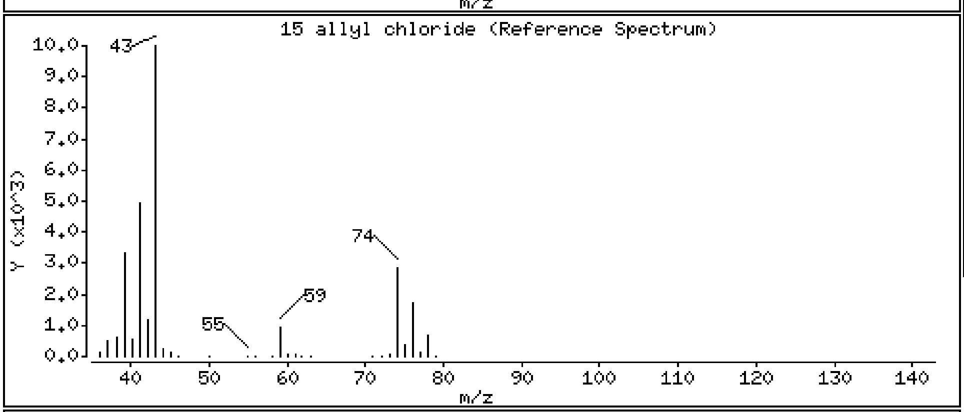
Review Code:

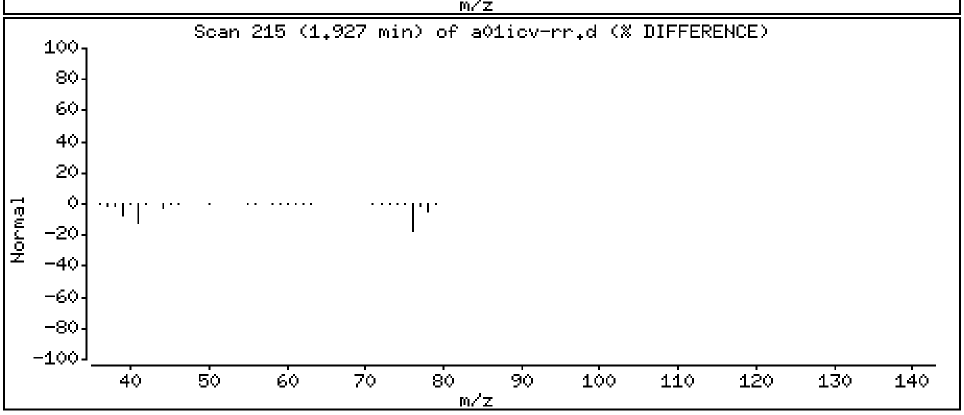












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

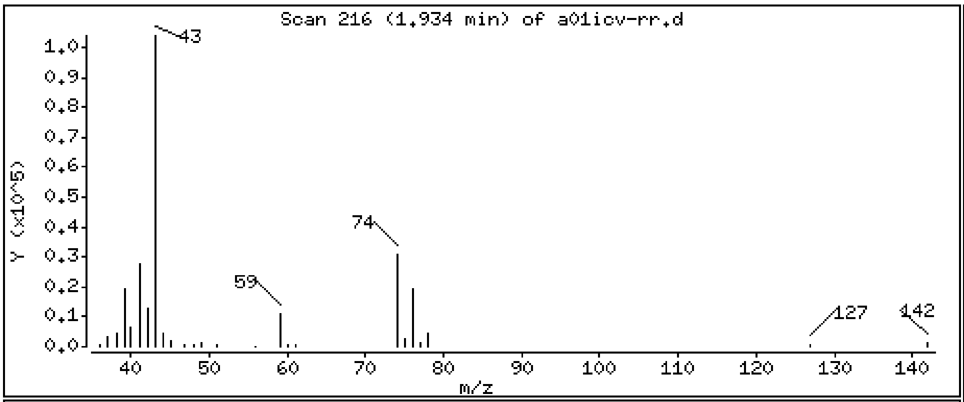
Column phase: DB-624

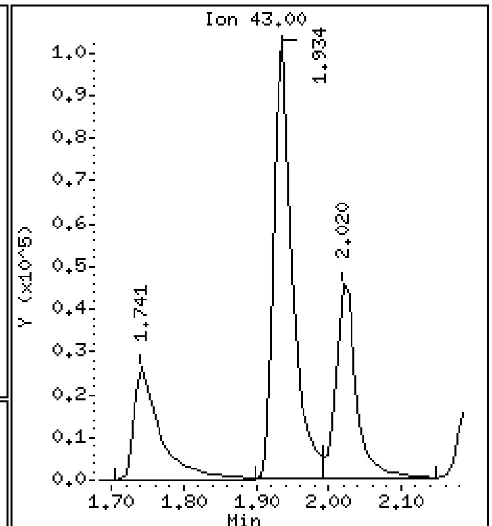
Column diameter: 0.18

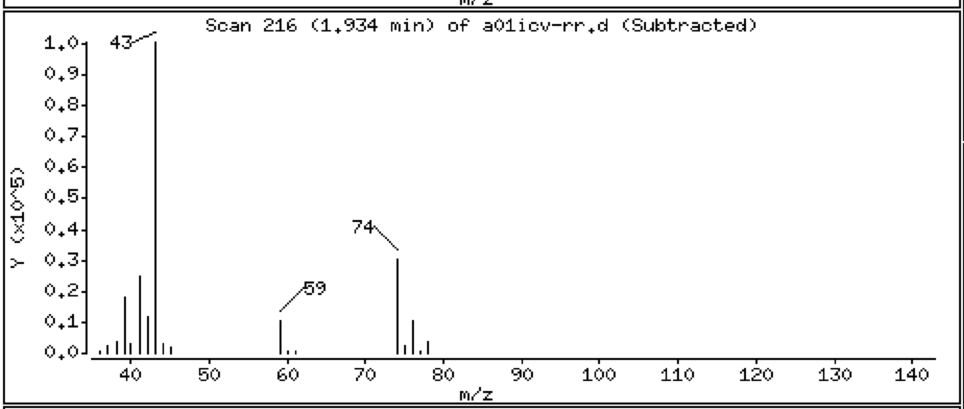
16 Methyl Acetate

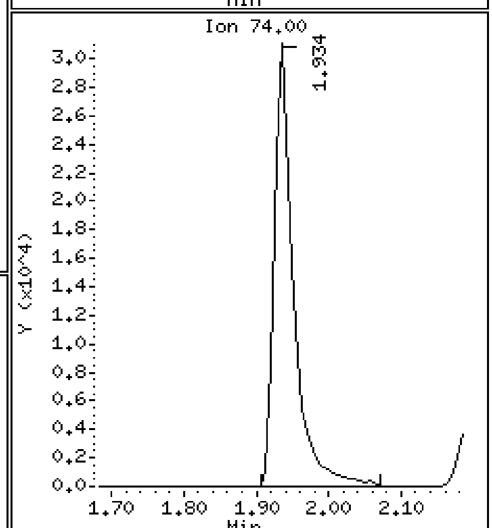
Concentration: 230 ppb

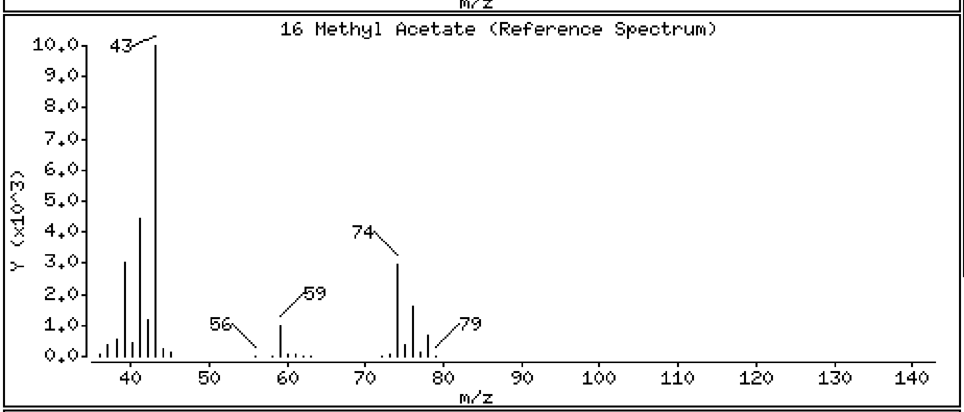
Review Code:

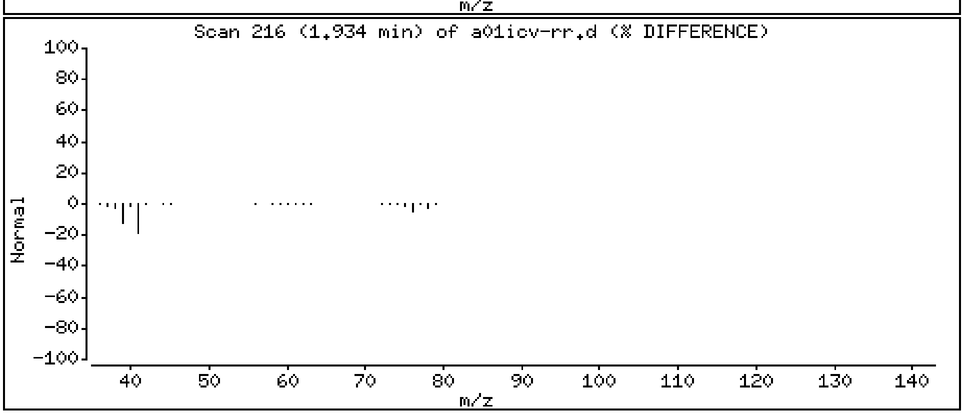












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

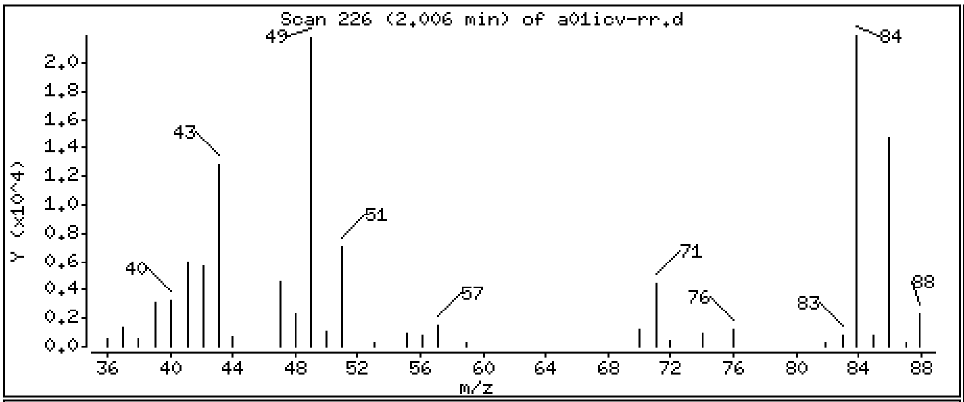
Column phase: DB-624

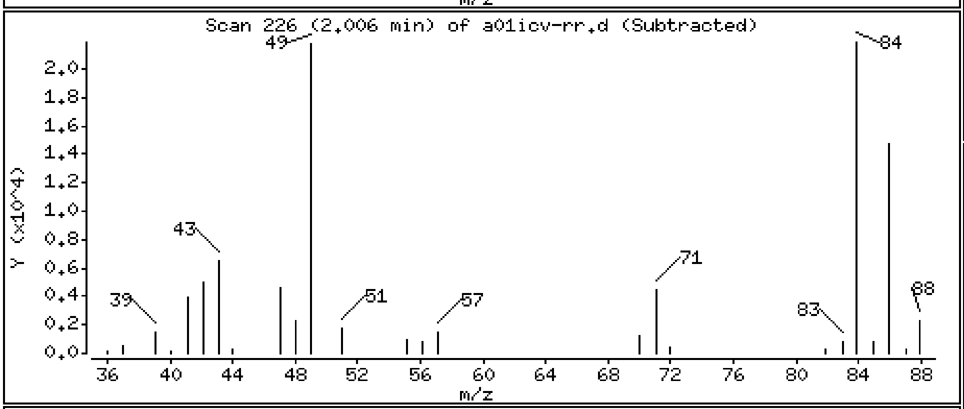
Column diameter: 0.18

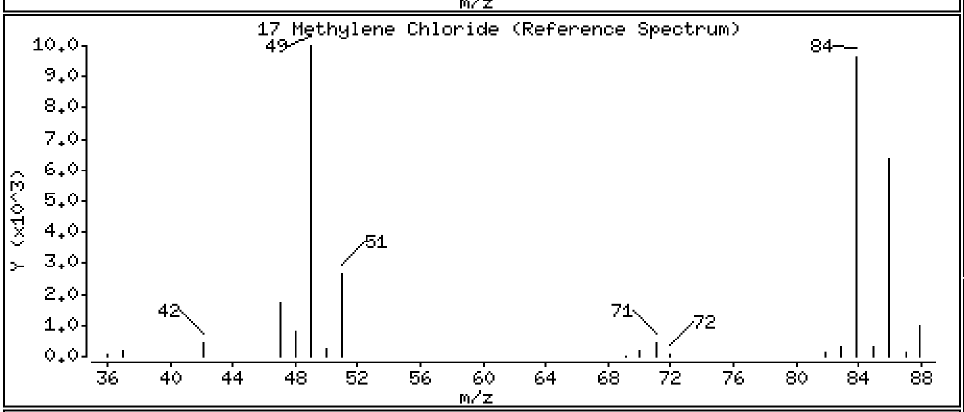
17 Methylene Chloride

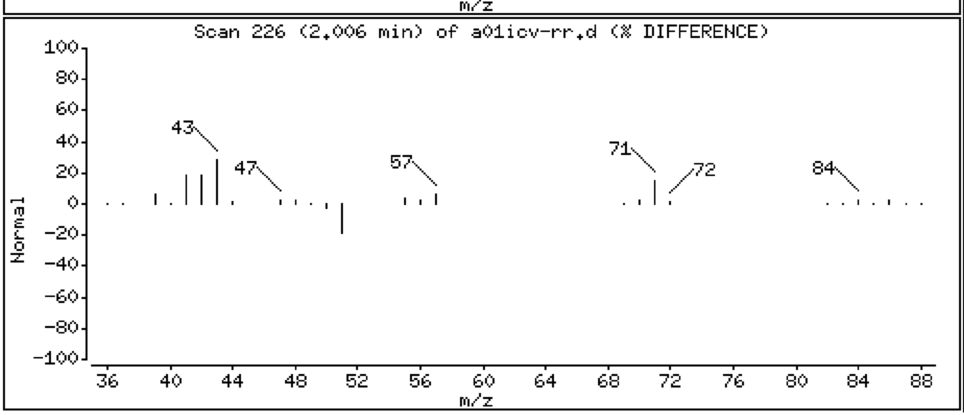
Concentration: 46.0 ppb

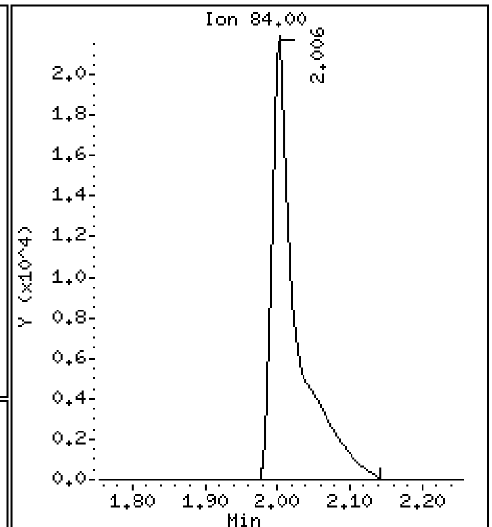
Review Code:

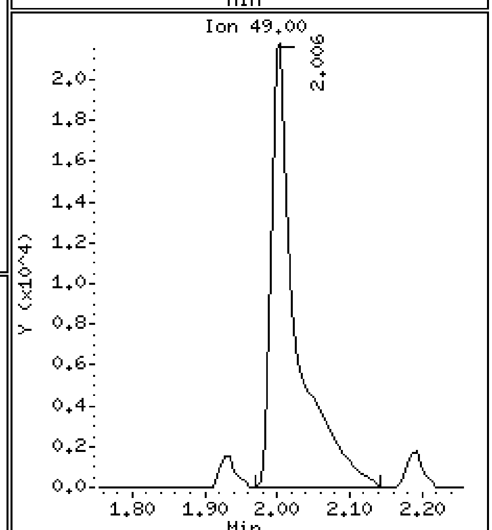


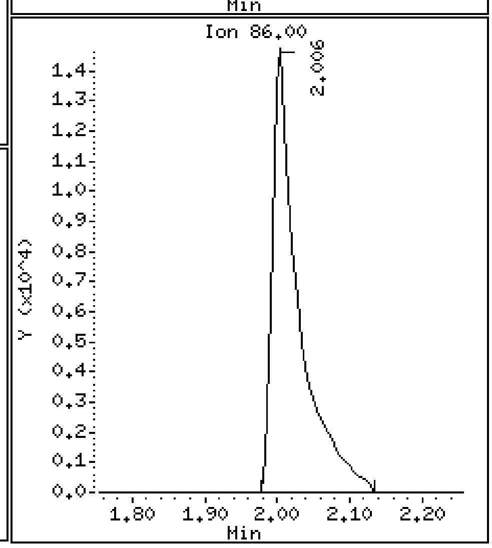












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Date : 26-JAN-2023 09:06

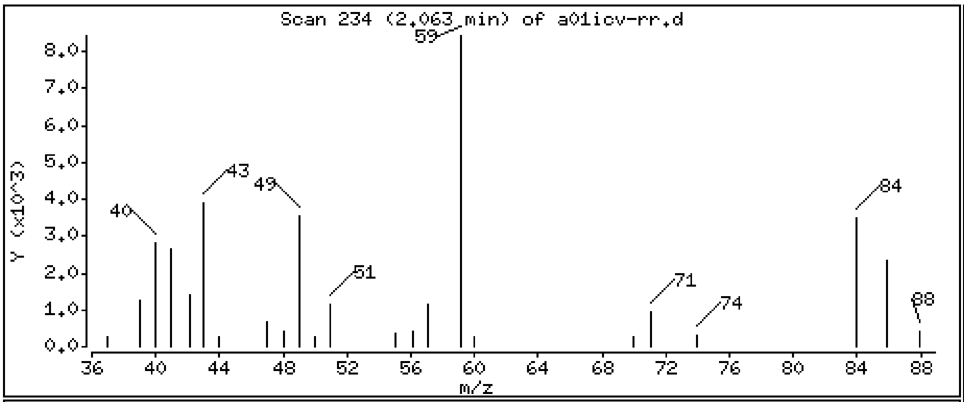
Client ID: Instrument: 50mv2a.i

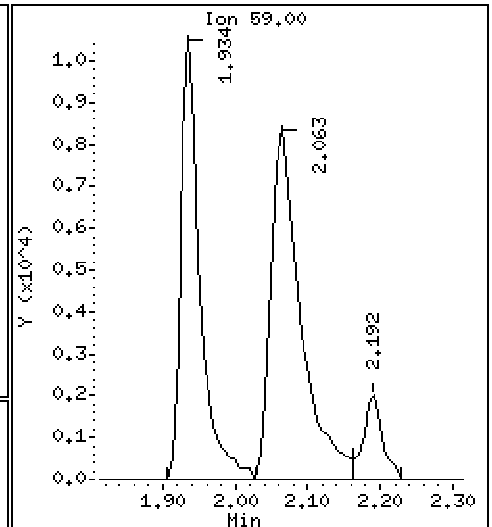
Sample Info: 8260-ICV,336828

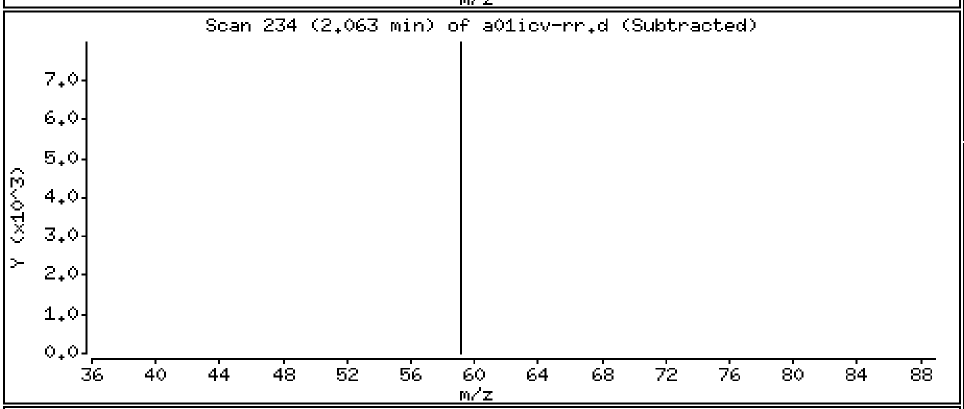
Purge Volume: 5.0 Operator: tkg

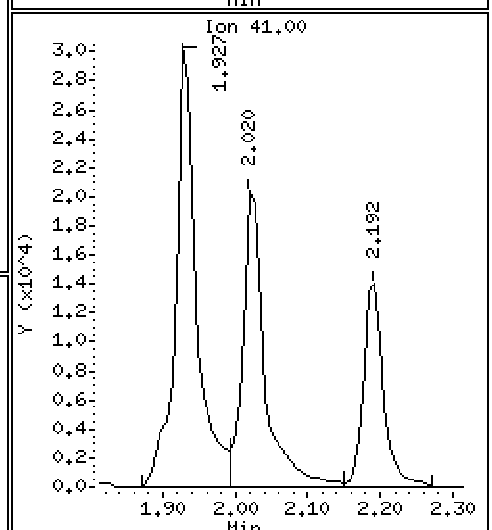
Column phase: DB-624 Column diameter: 0.18

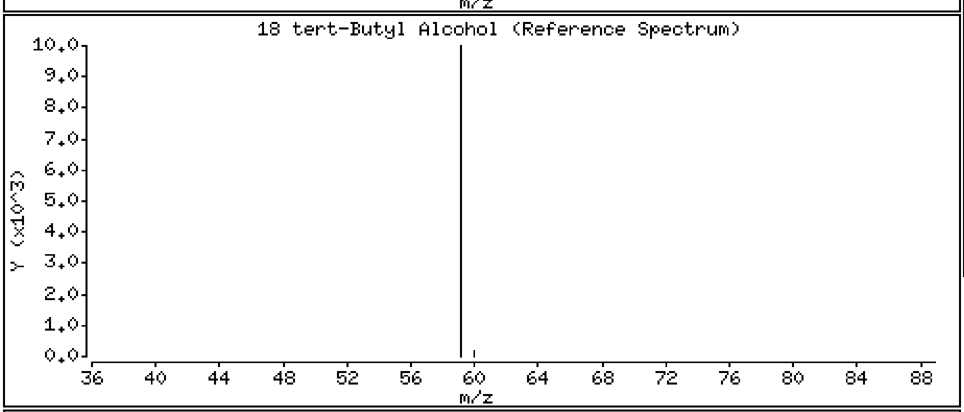
18 tert-Butyl Alcohol Concentration: 199 ppb Review Code:

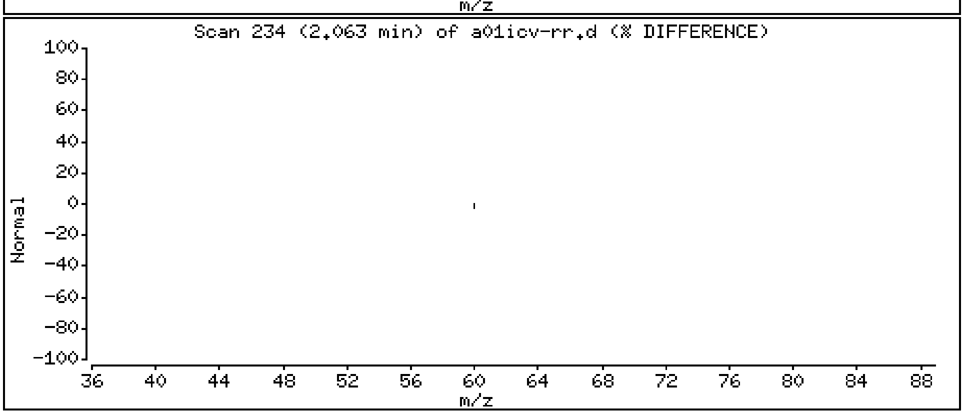












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

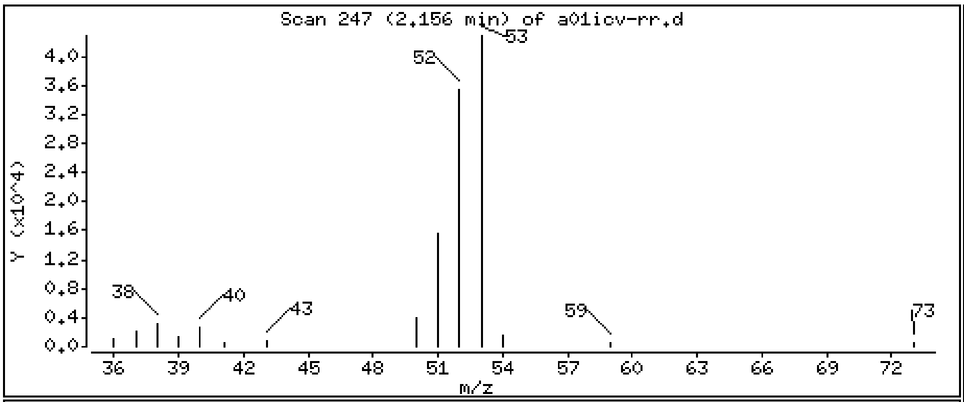
Column phase: DB-624

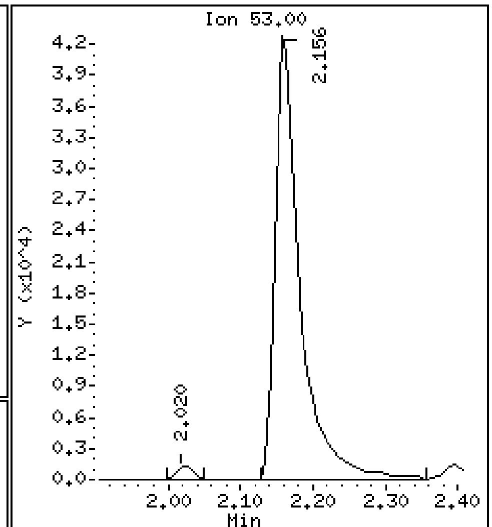
Column diameter: 0.18

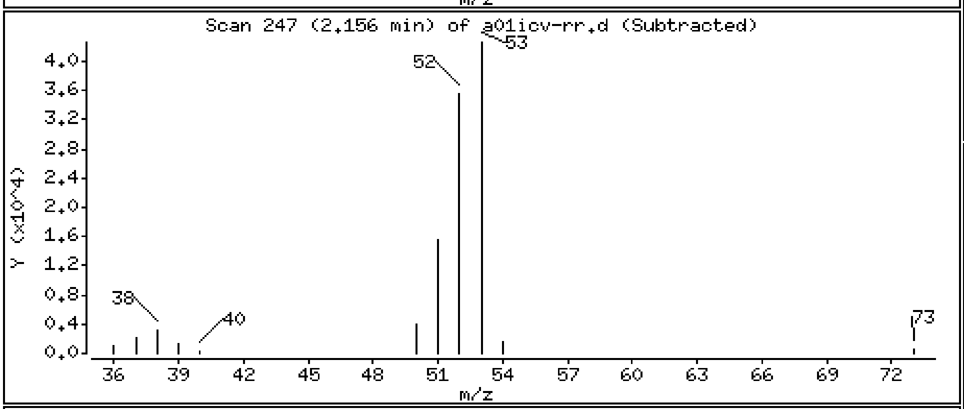
19 Acrylonitrile

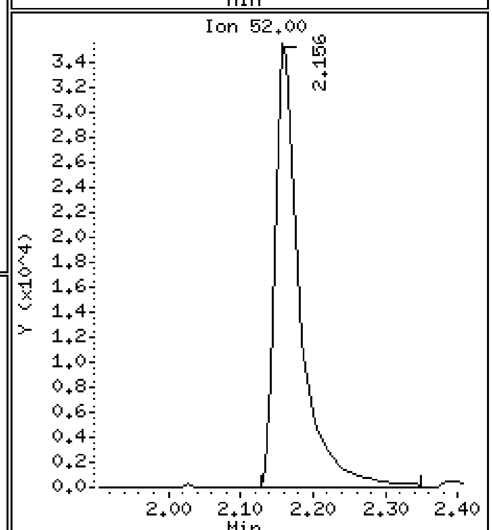
Concentration: 262 ppb

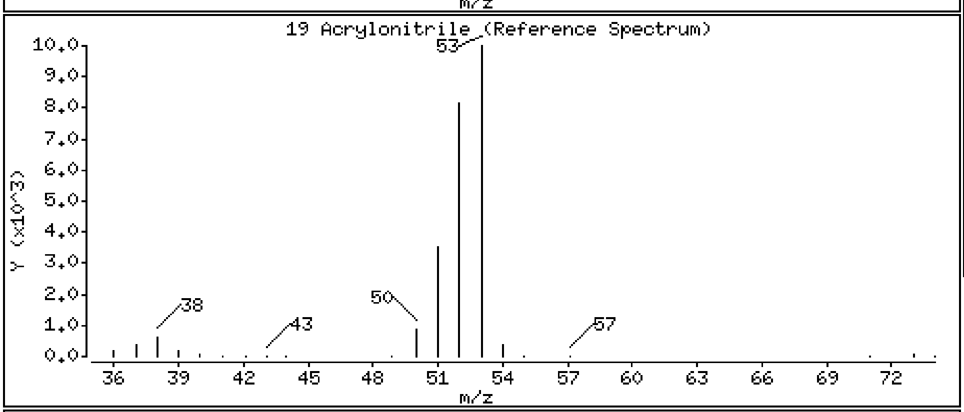
Review Code:

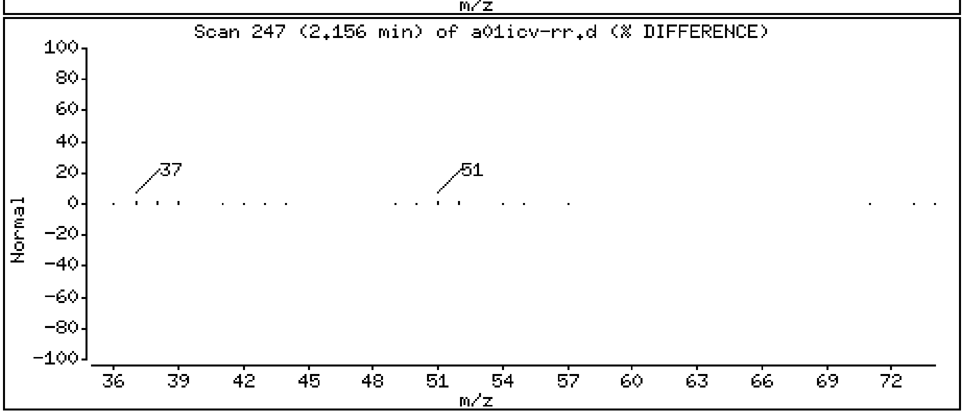












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Date : 26-JAN-2023 09:06

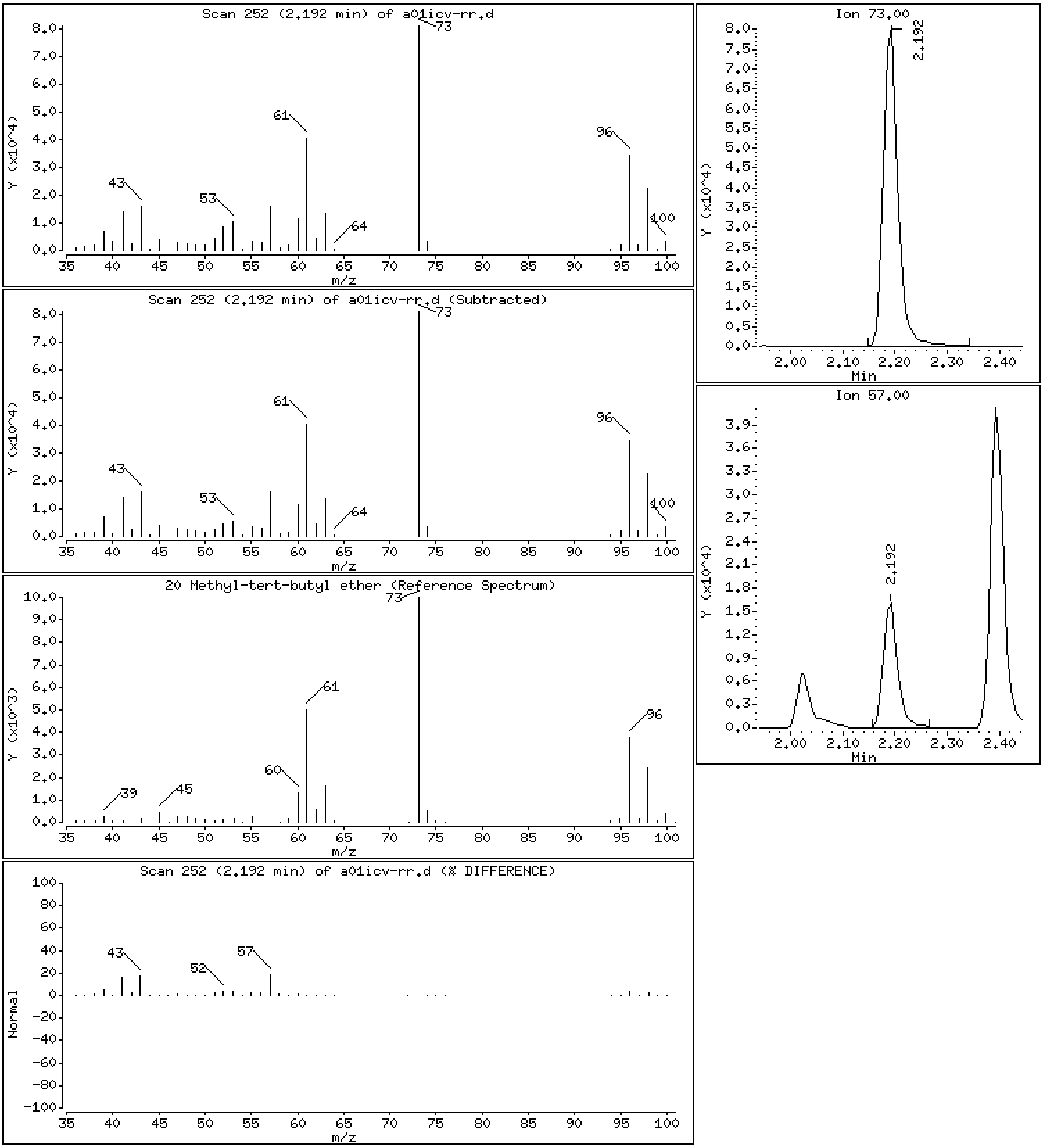
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

20 Methyl-tert-butyl ether Concentration: 54.1 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

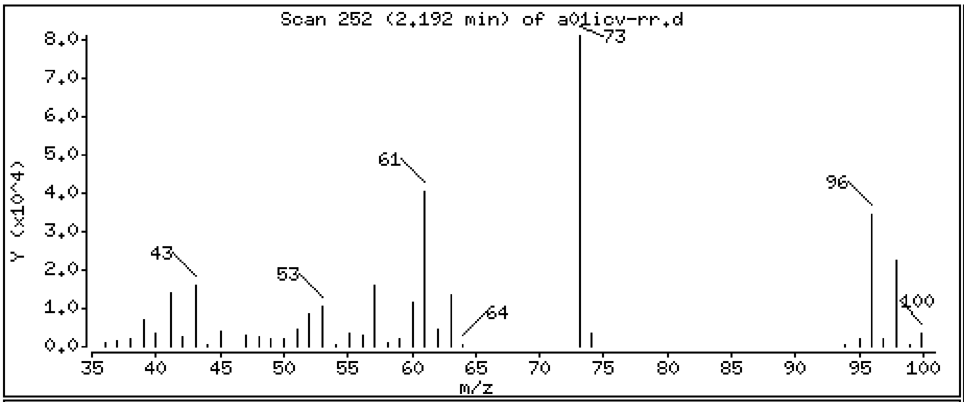
Column phase: DB-624

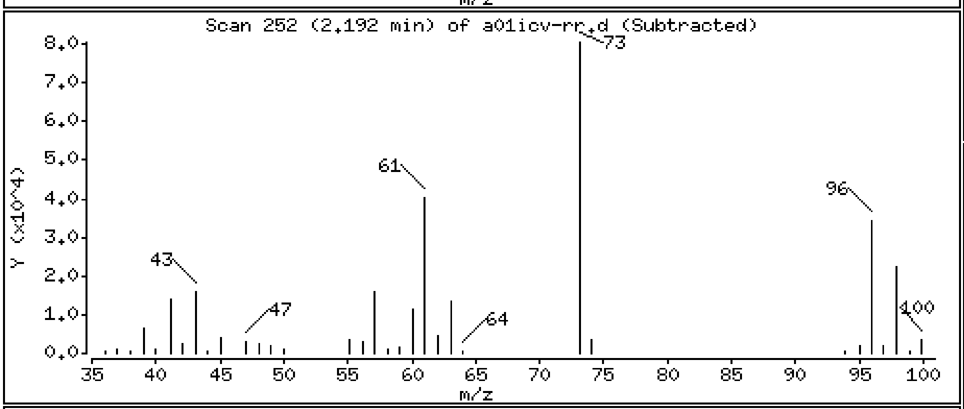
Column diameter: 0.18

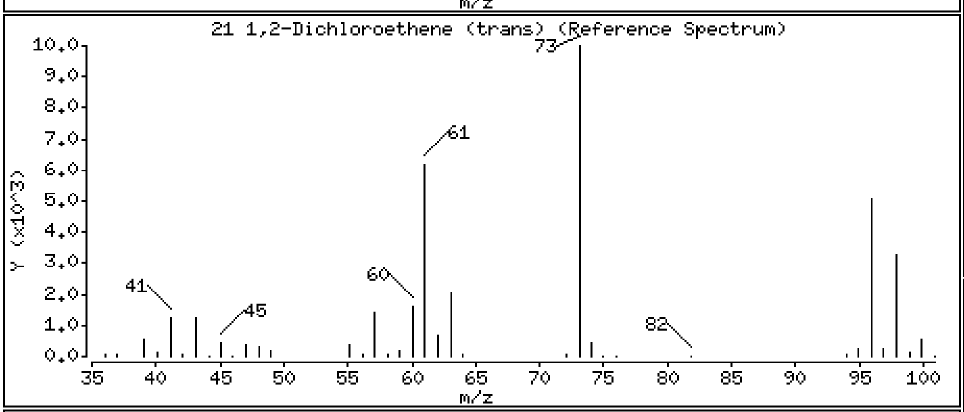
21 1,2-Dichloroethene (trans)

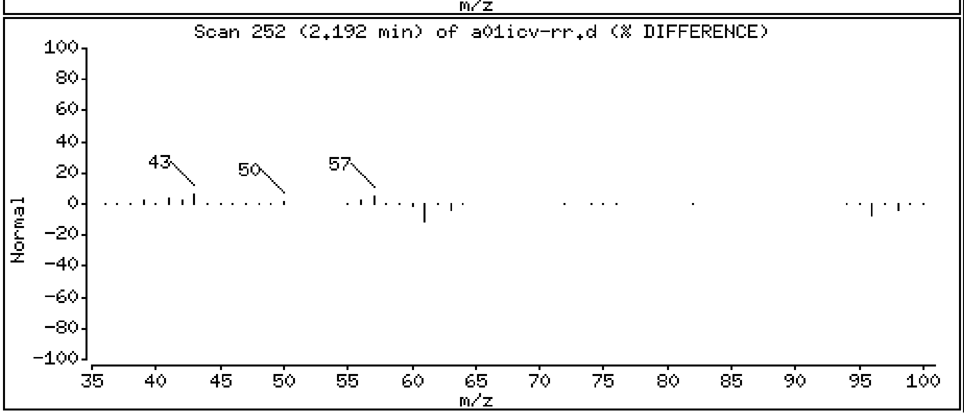
Concentration: 53.9 ppb

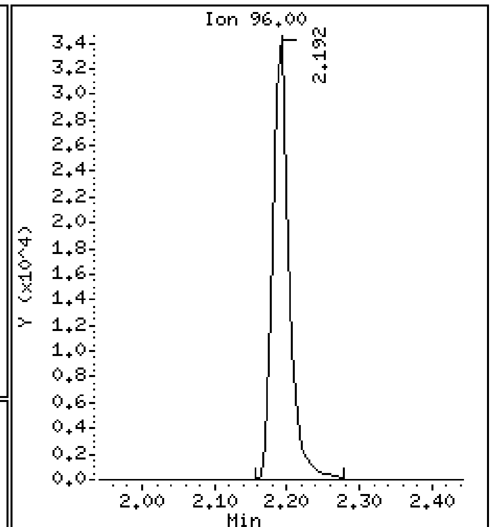
Review Code:

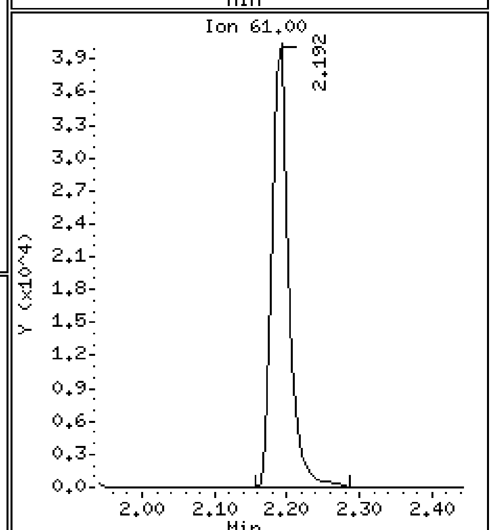


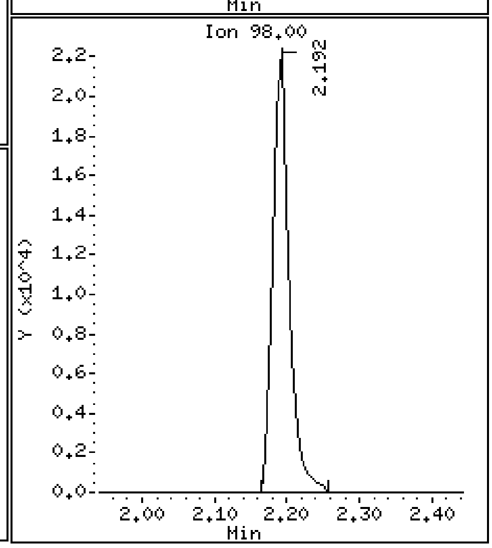












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

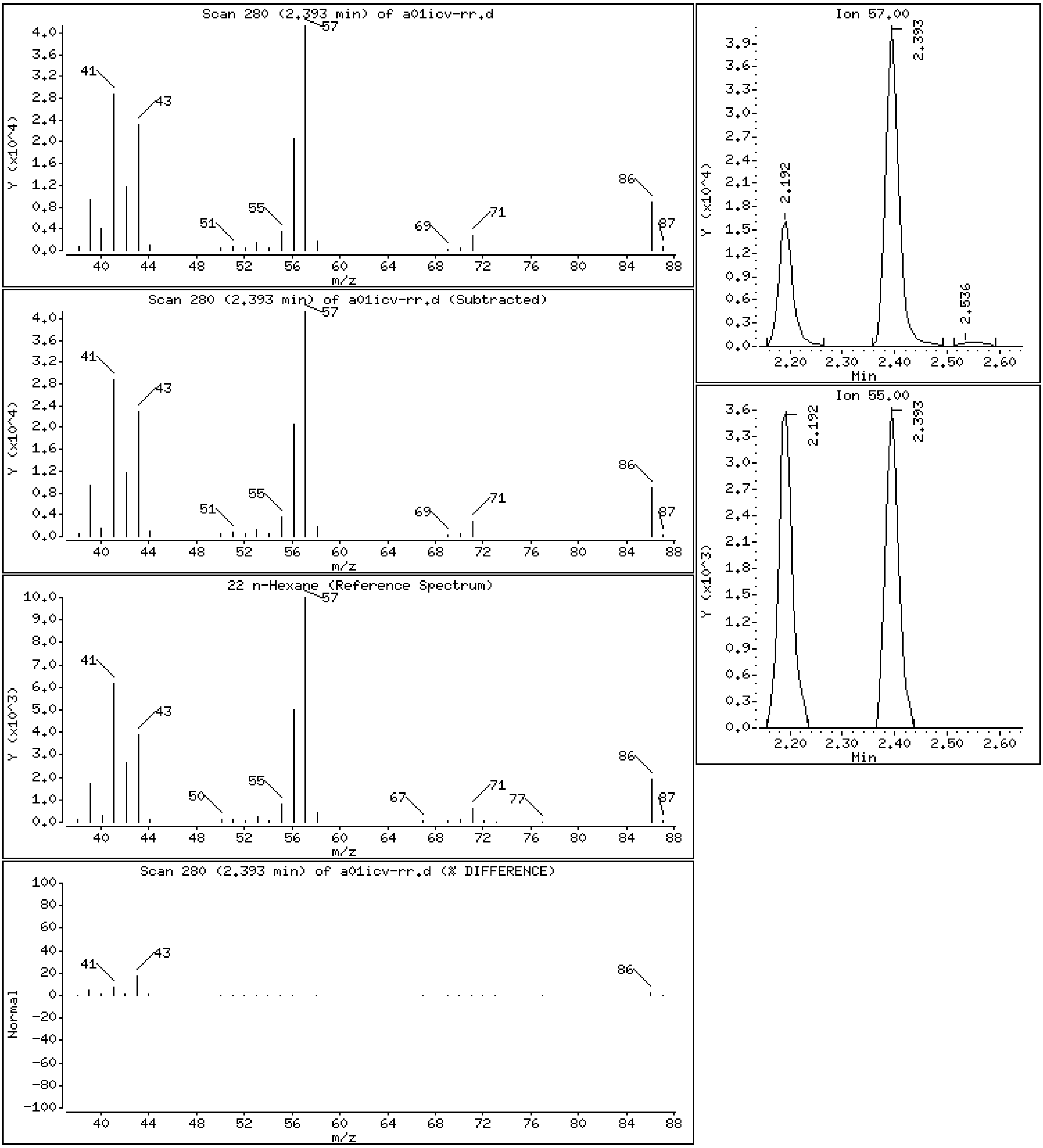
Column phase: DB-624

Column diameter: 0.18

22 n-Hexane

Concentration: 57.2 ppb

Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mv2a.i

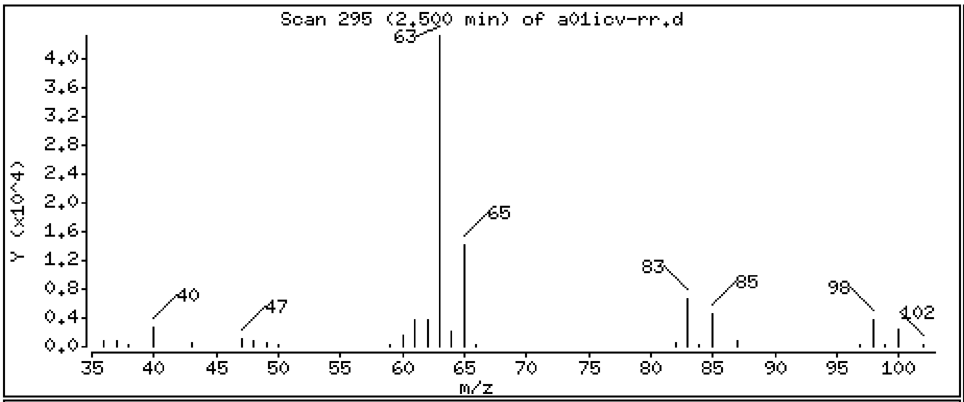
Operator: tkg

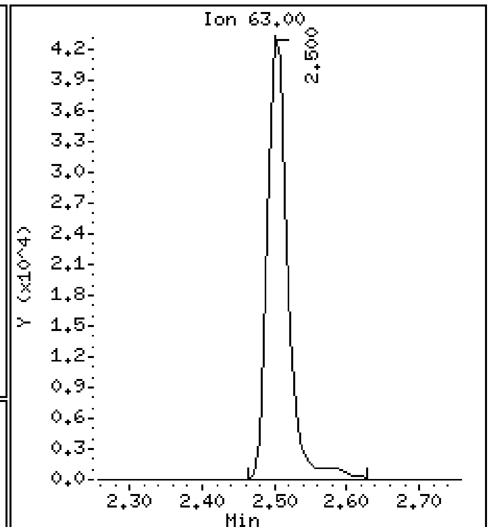
Column diameter: 0.18

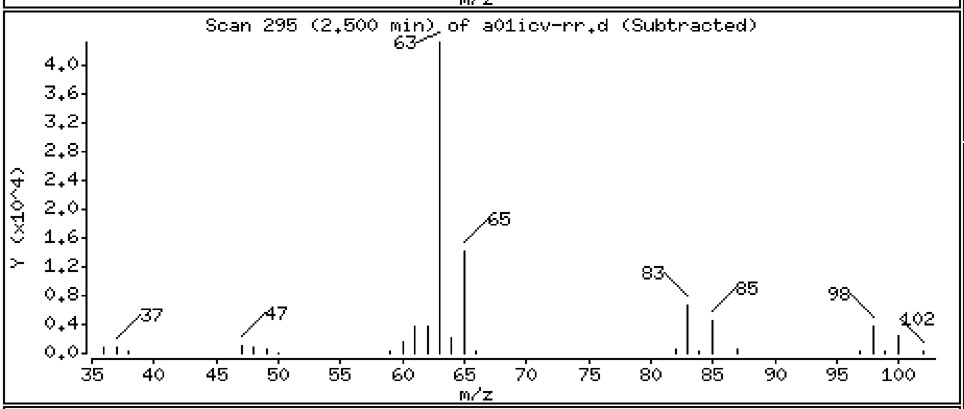
23 1,1-Dichloroethane

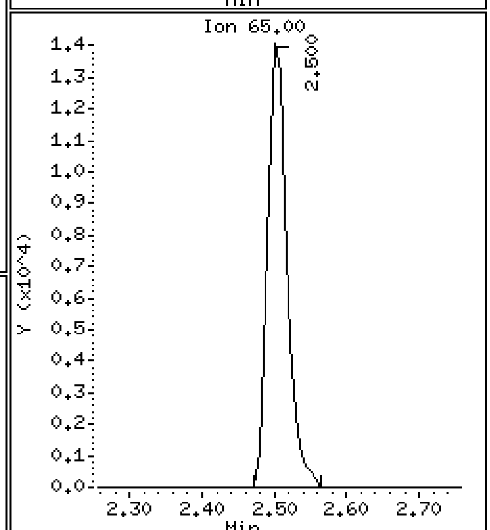
Concentration: 53.8 ppb

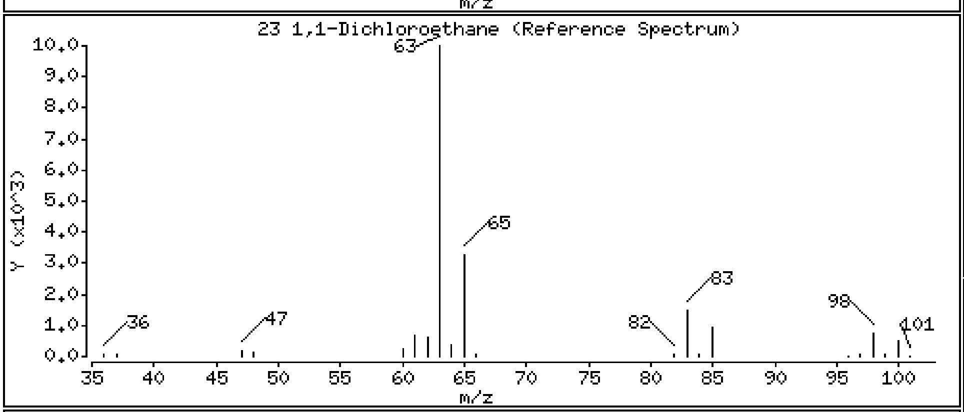
Review Code:

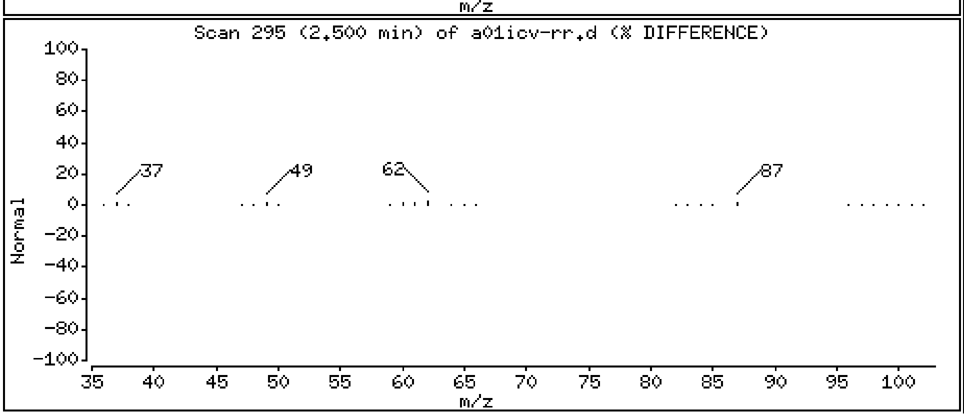


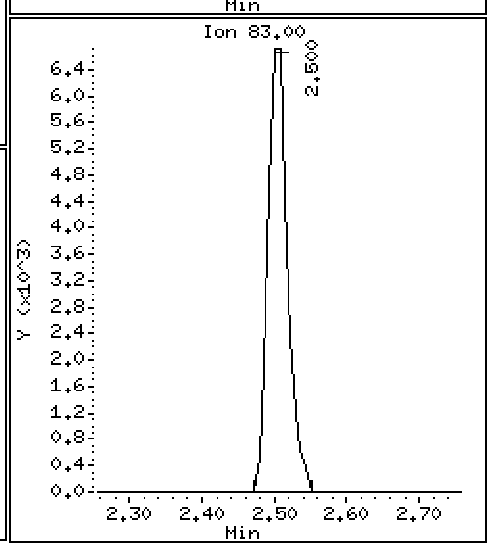












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Date : 26-JAN-2023 09:06

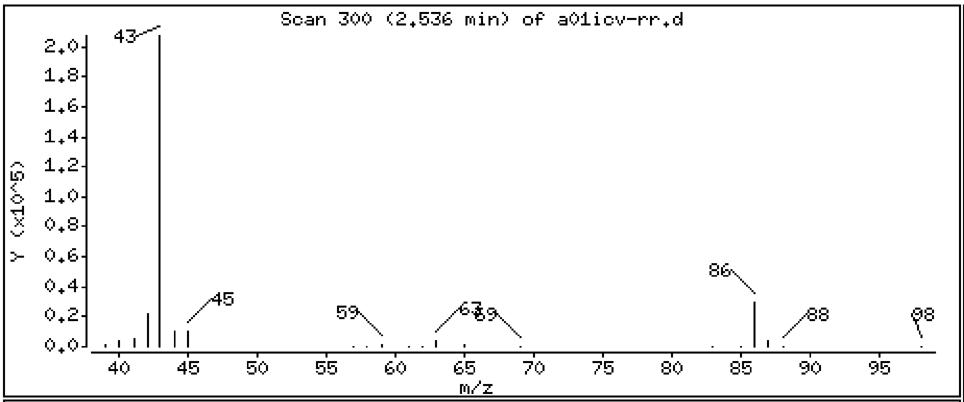
Client ID: Instrument: 50mv2a.i

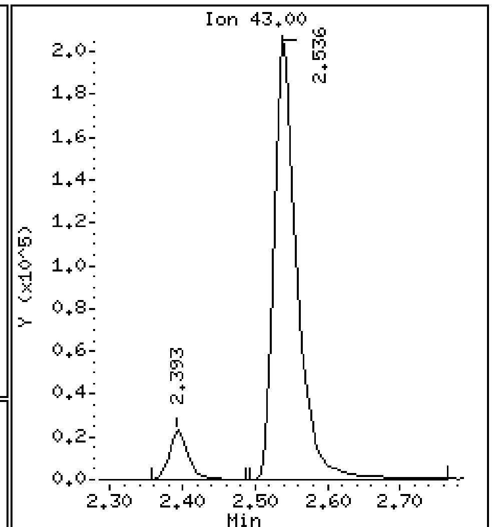
Sample Info: 8260-ICV,336828

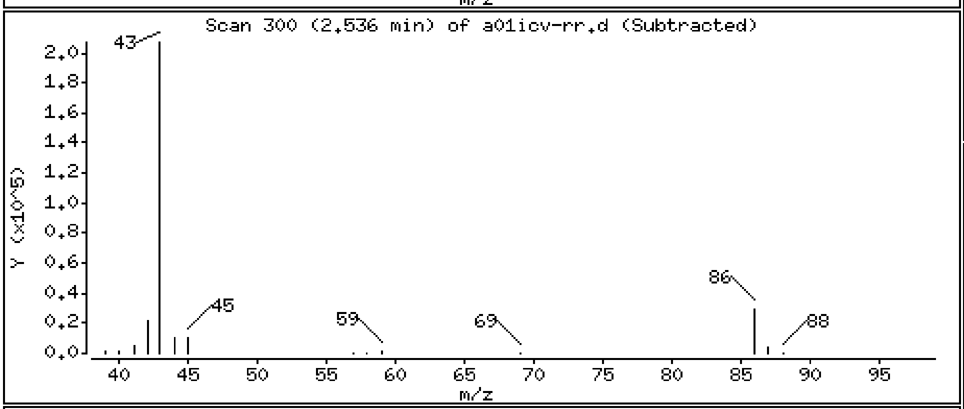
Purge Volume: 5.0 Operator: tkg

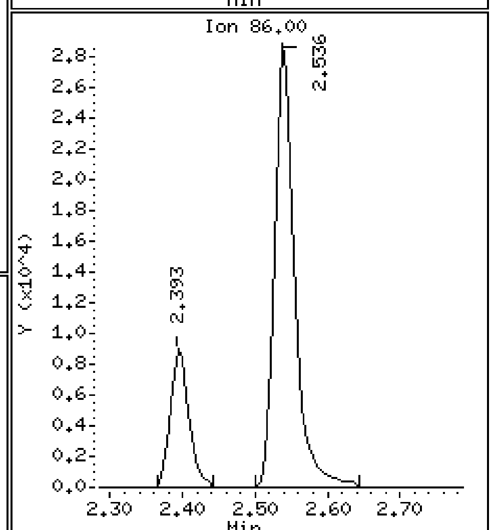
Column phase: DB-624 Column diameter: 0.18

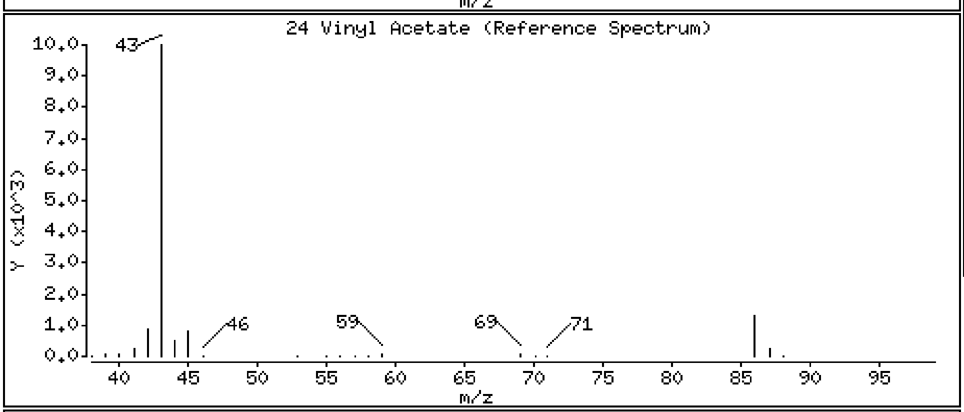
24 Vinyl Acetate Concentration: 226 ppb Review Code:

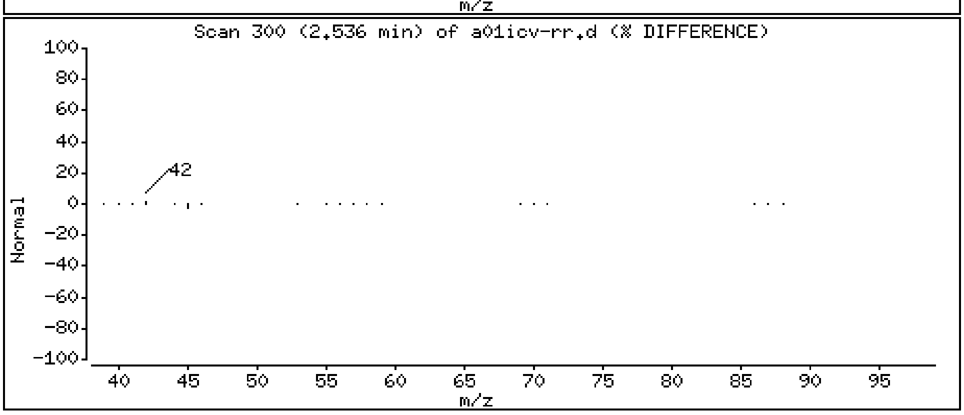












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

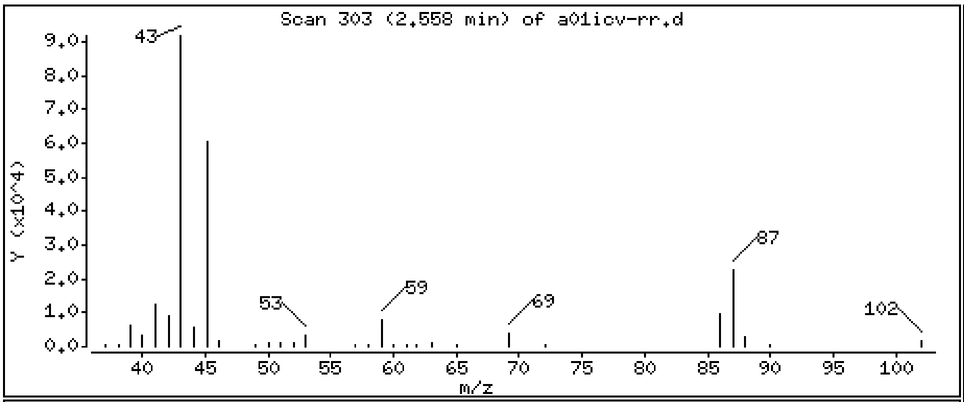
Column phase: DB-624

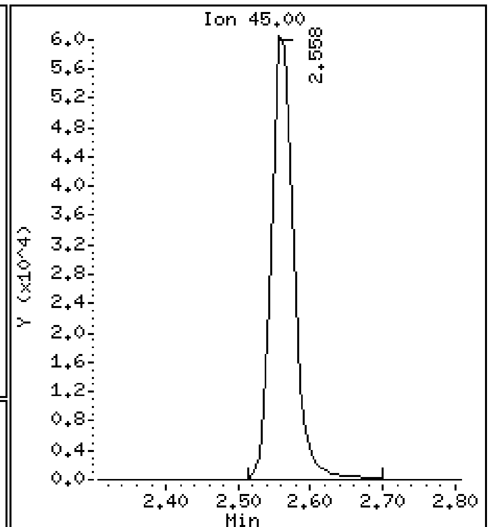
Column diameter: 0.18

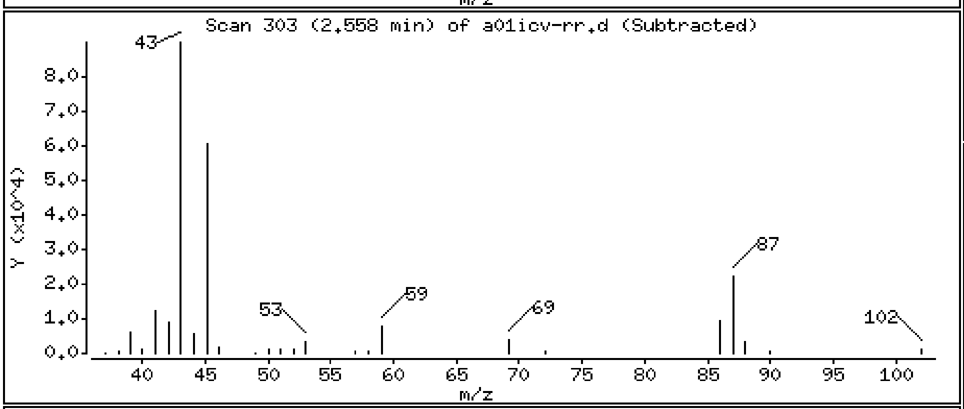
25 Diisopropyl ether

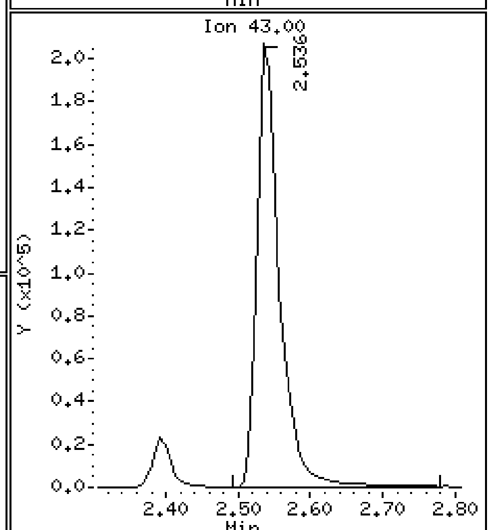
Concentration: 51.4 ppb

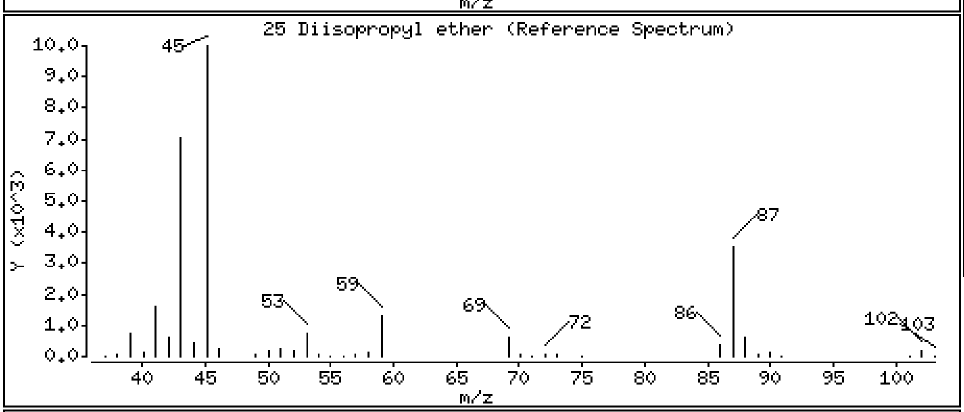
Review Code:

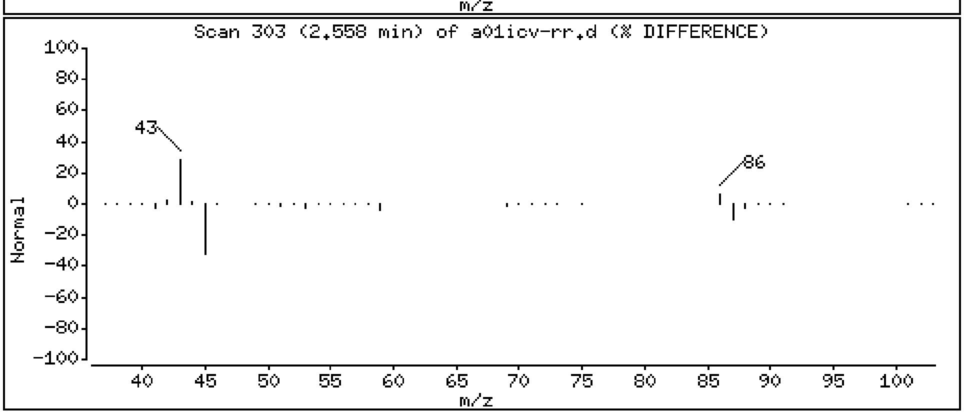












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

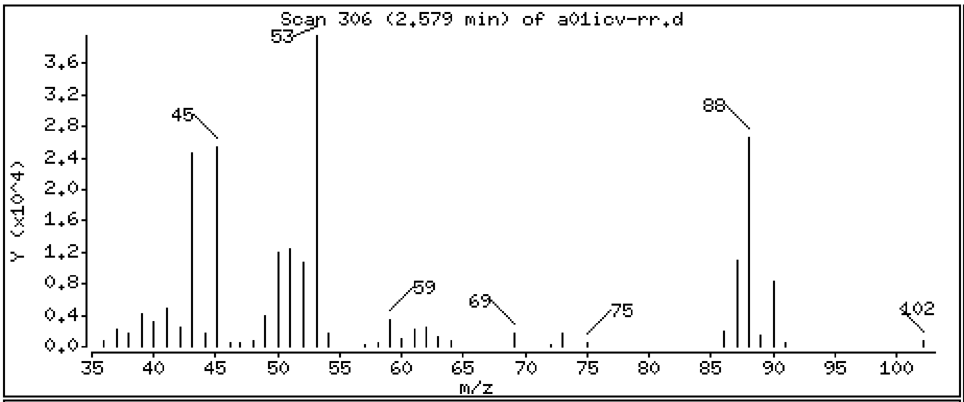
Column phase: DB-624

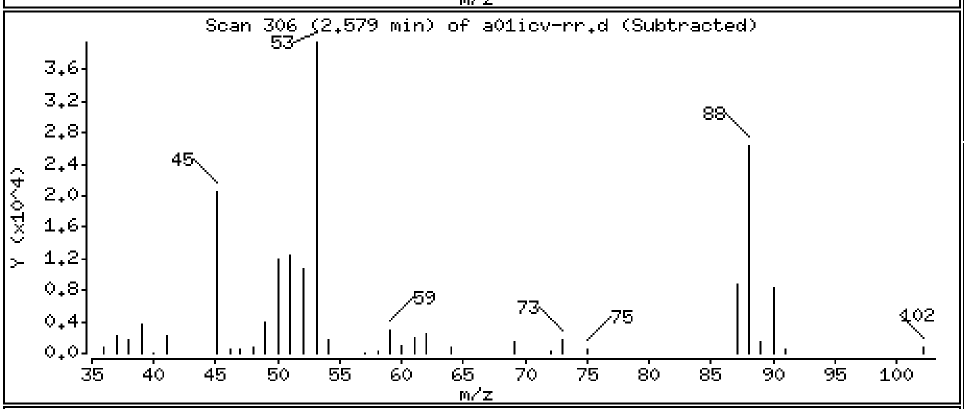
Column diameter: 0.18

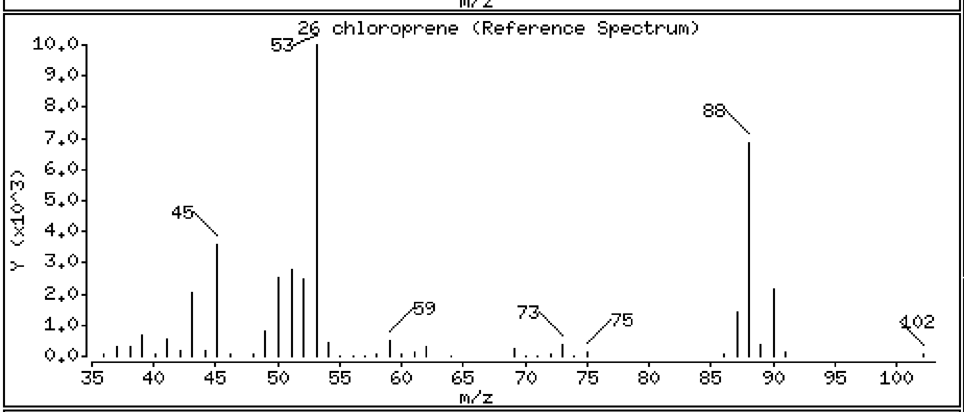
26 chloroprene

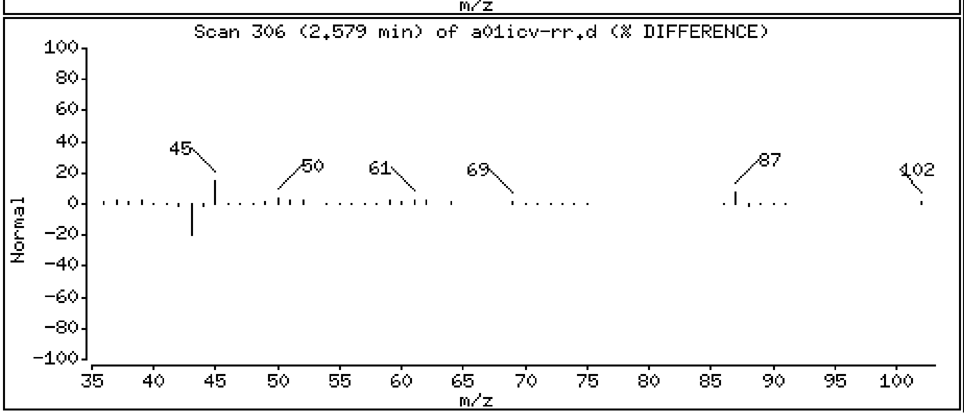
Concentration: 54.9 ppb

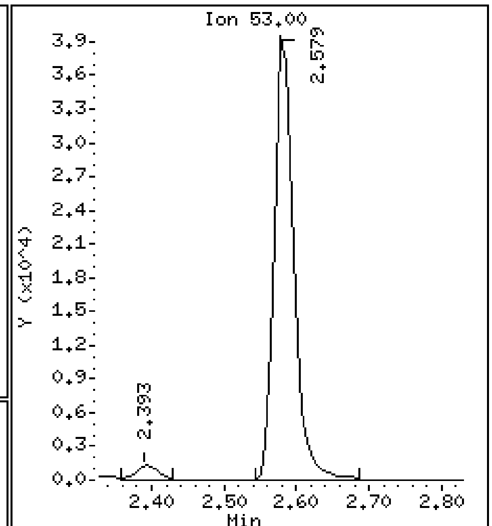
Review Code:

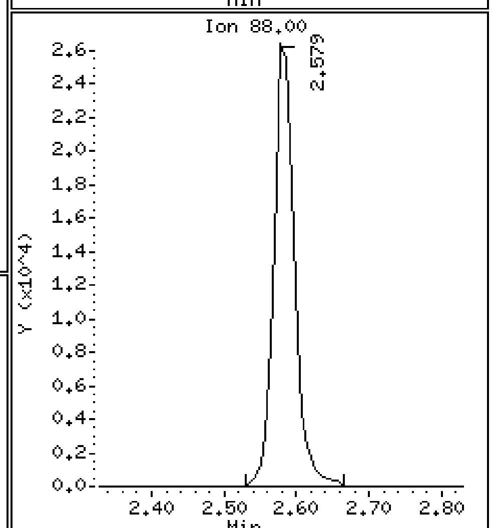


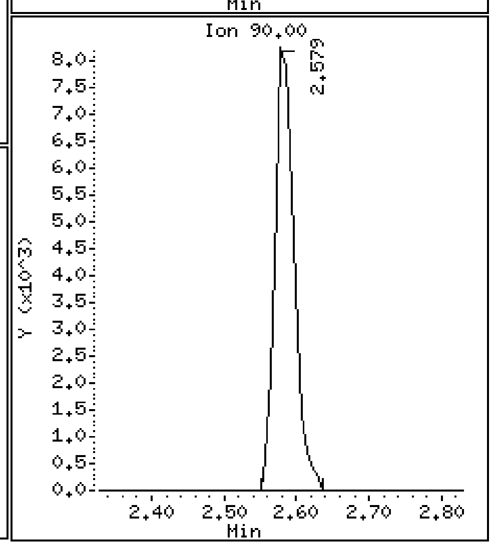












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

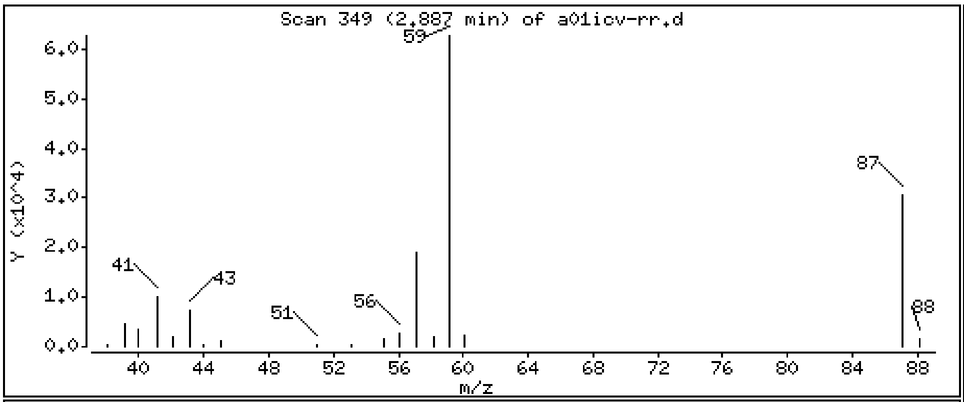
Column phase: DB-624

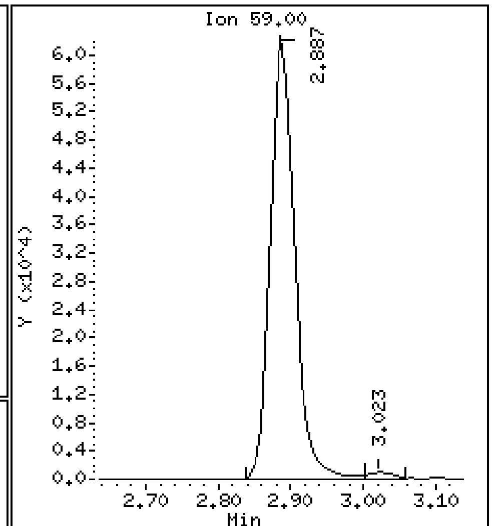
Column diameter: 0.18

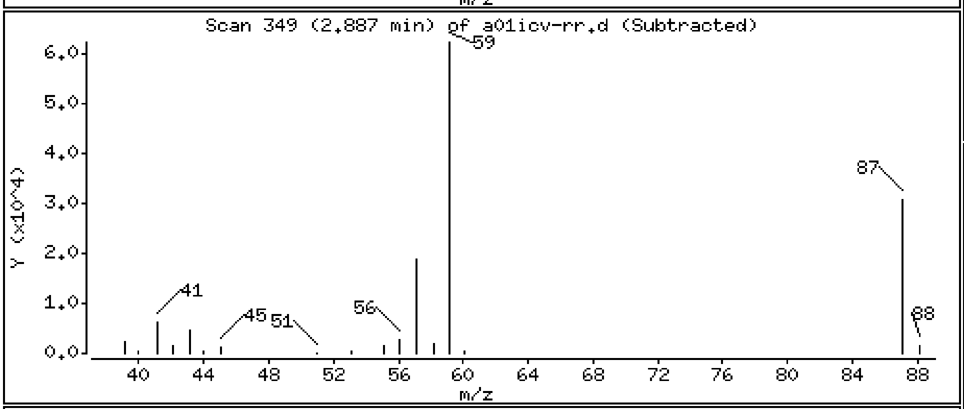
27 Ethyl-tert-butyl ether

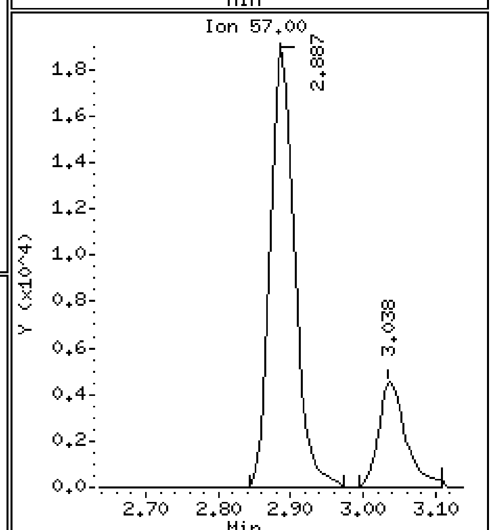
Concentration: 53.4 ppb

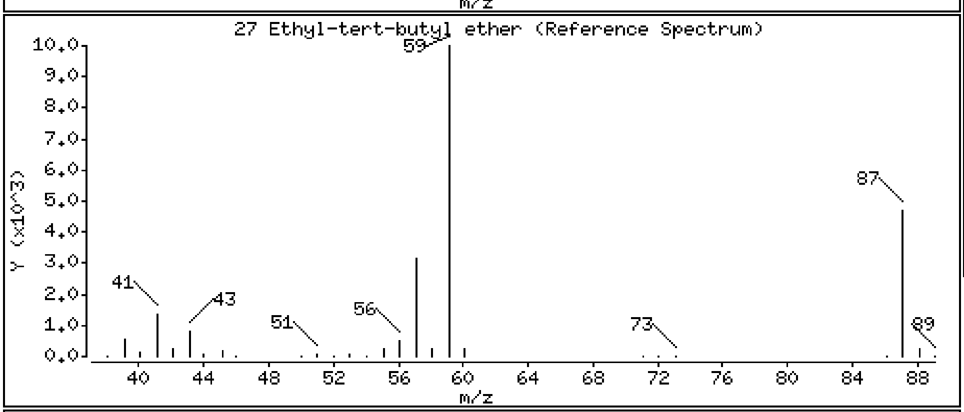
Review Code:

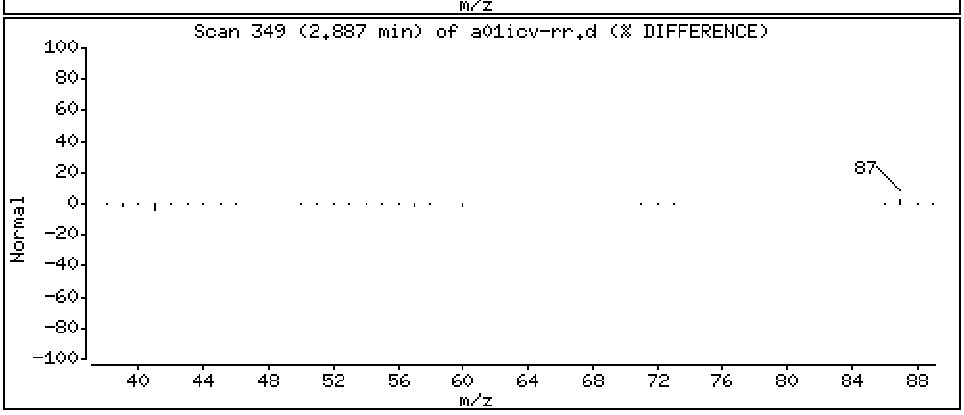












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

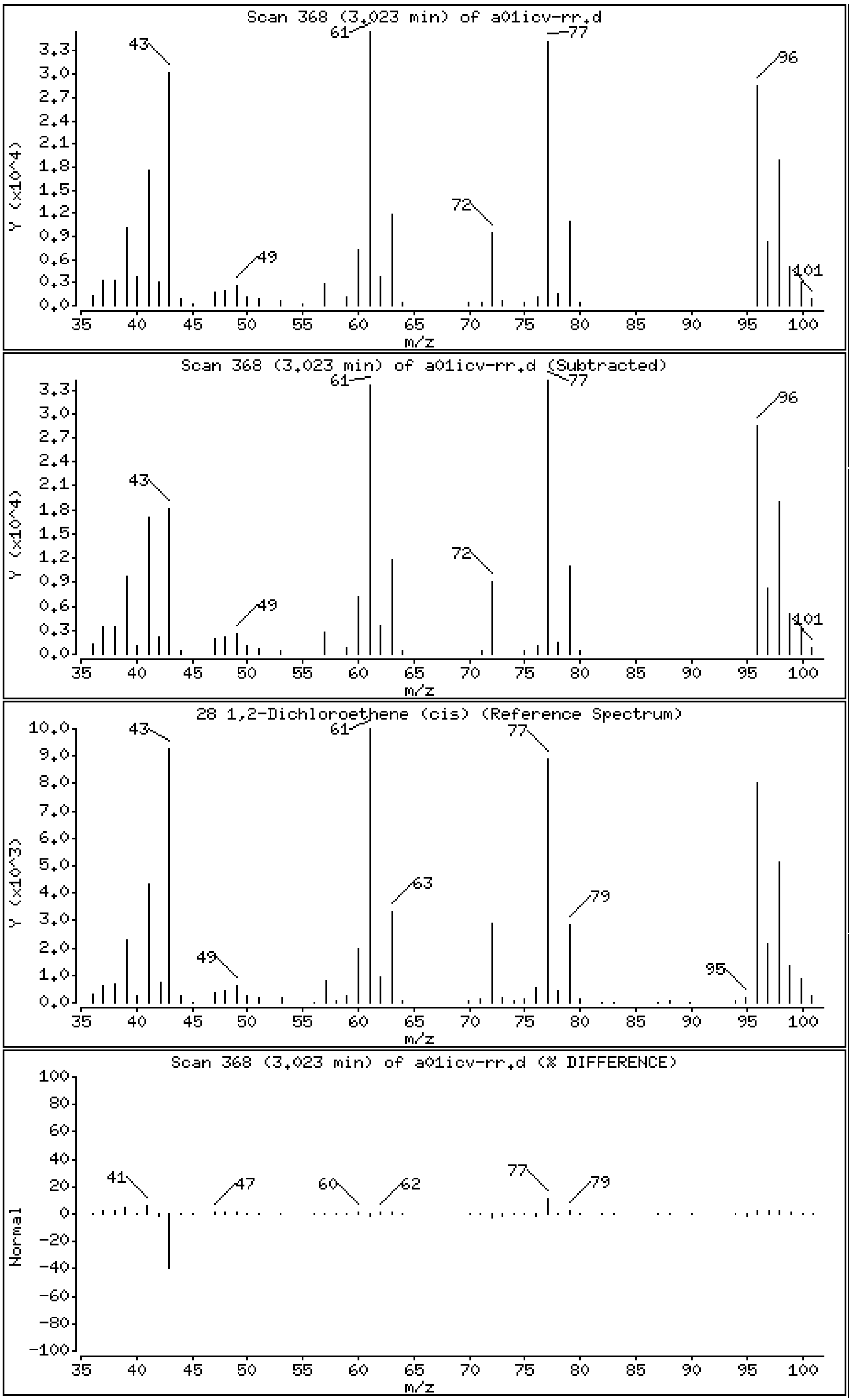
Column phase: DB-624

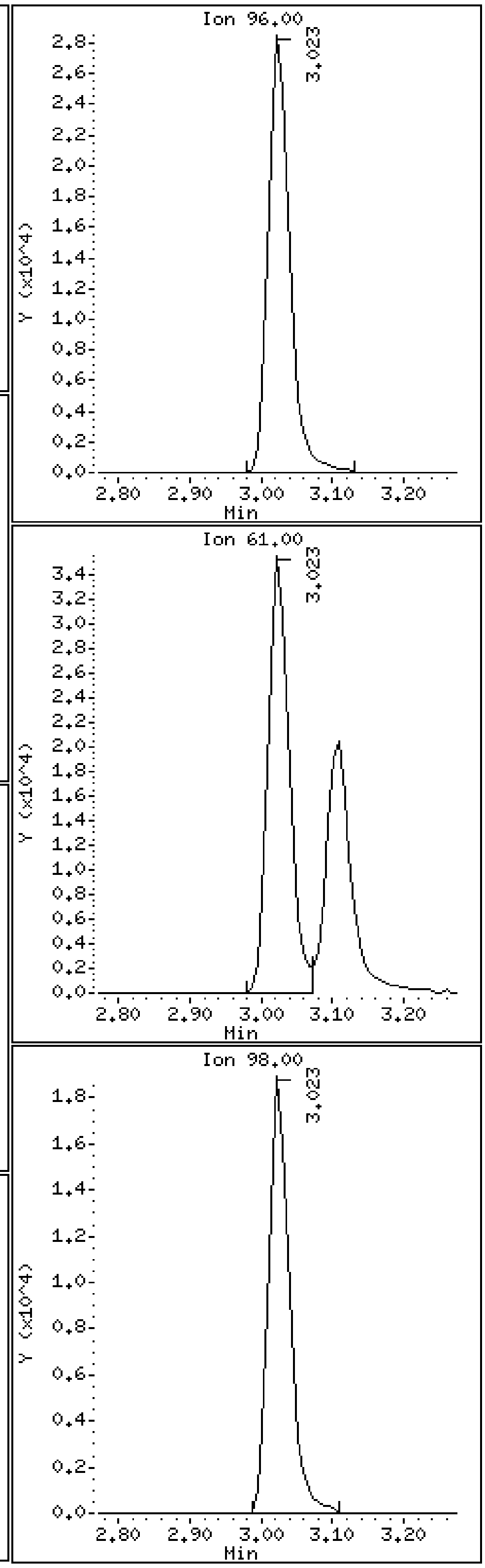
Column diameter: 0.18

28 1,2-Dichloroethene (cis)

Concentration: 53.4 ppb

Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

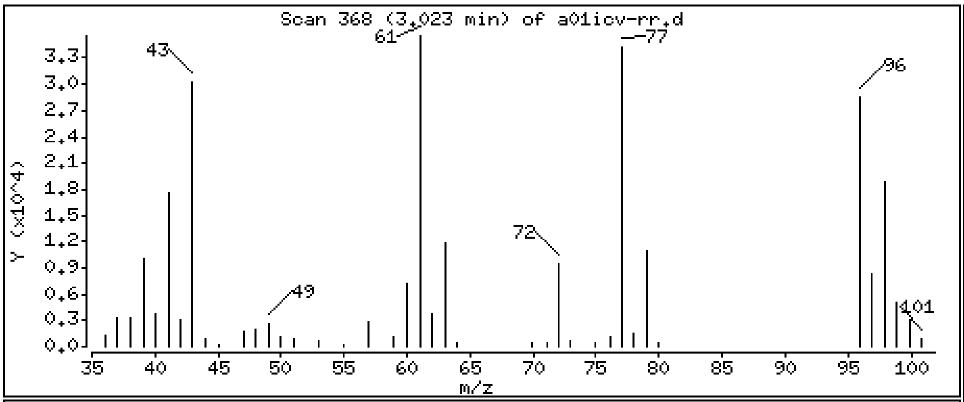
Column phase: DB-624

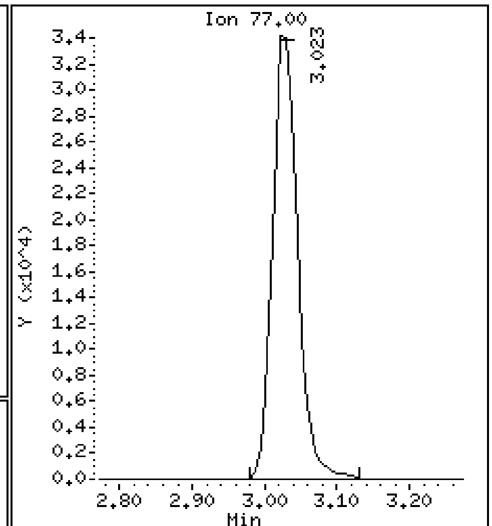
Column diameter: 0.18

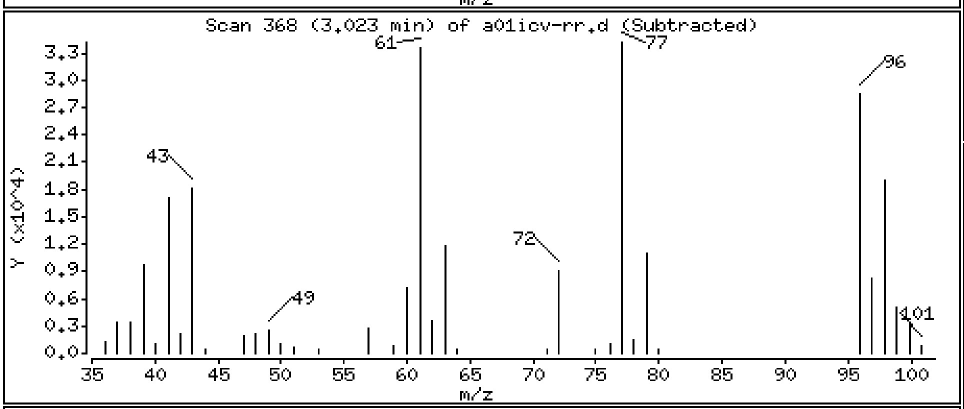
29 2,2-Dichloropropane

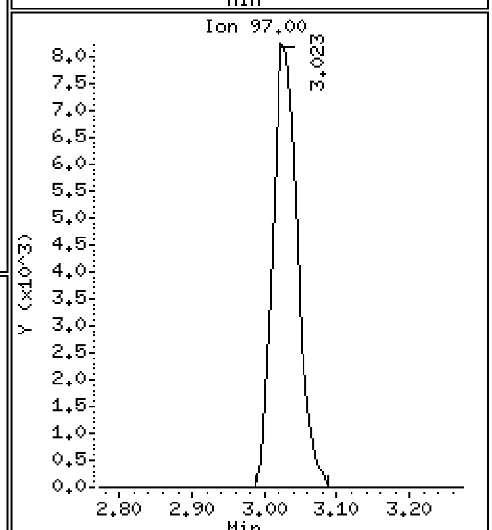
Concentration: 60.3 ppb

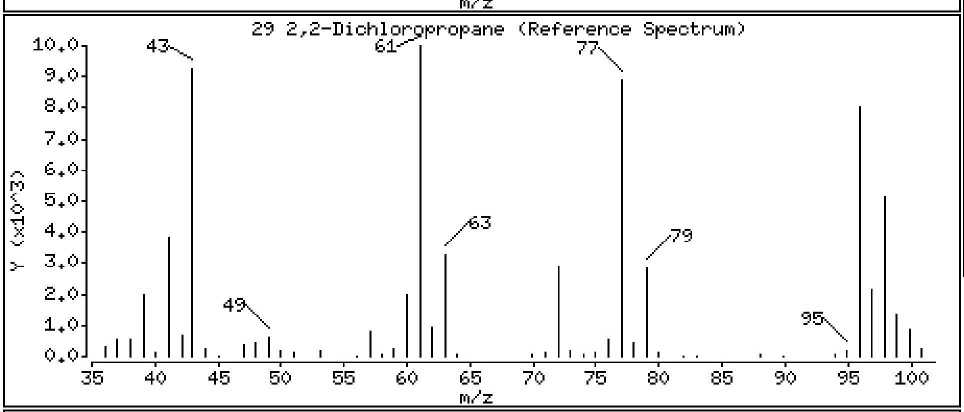
Review Code:

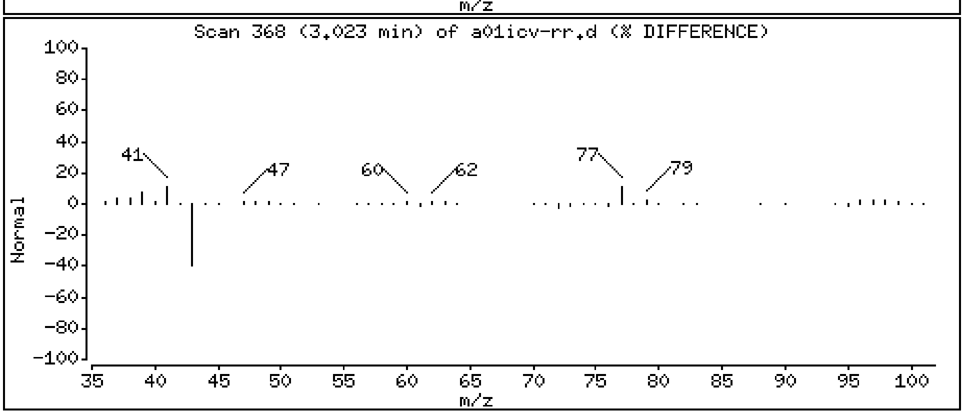












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Date : 26-JAN-2023 09:06

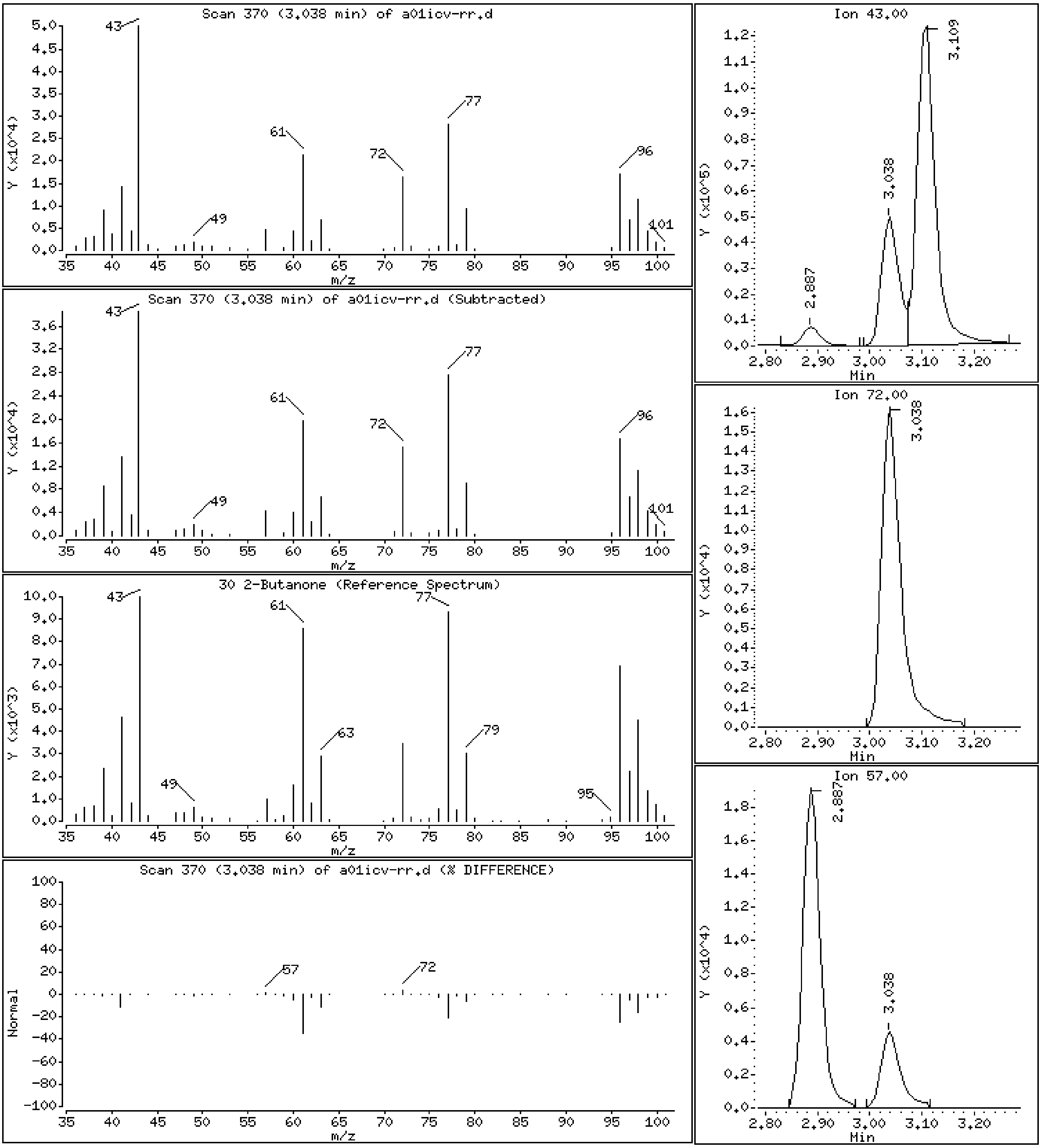
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

30 2-Butanone Concentration: 252 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

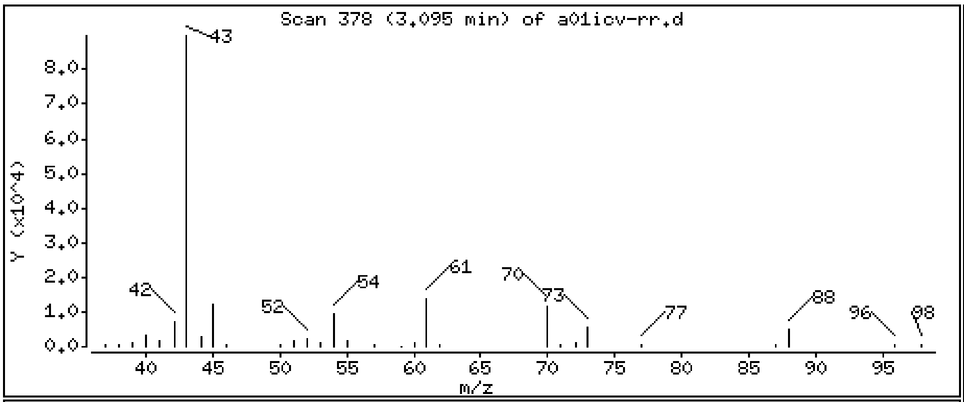
Column phase: DB-624

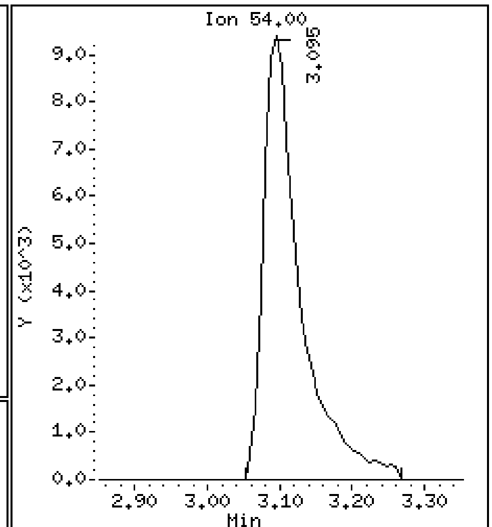
Column diameter: 0.18

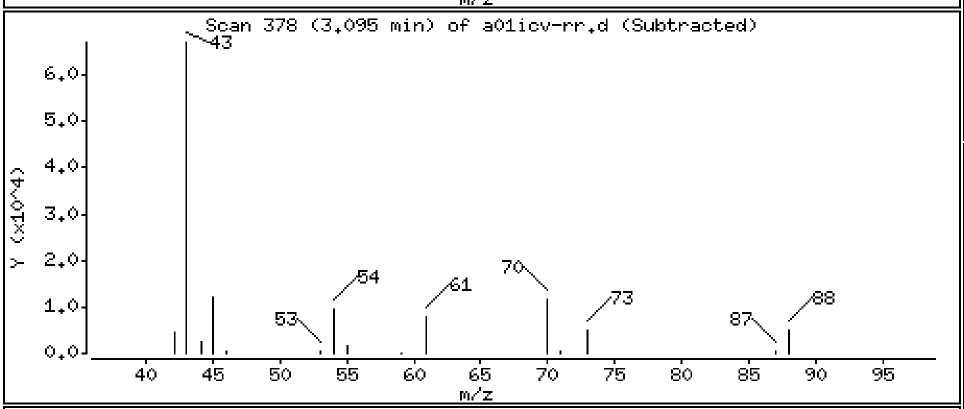
31 Propionitrile

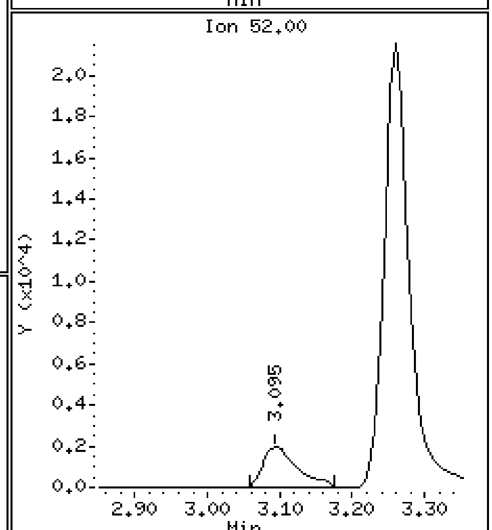
Concentration: 268 ppb

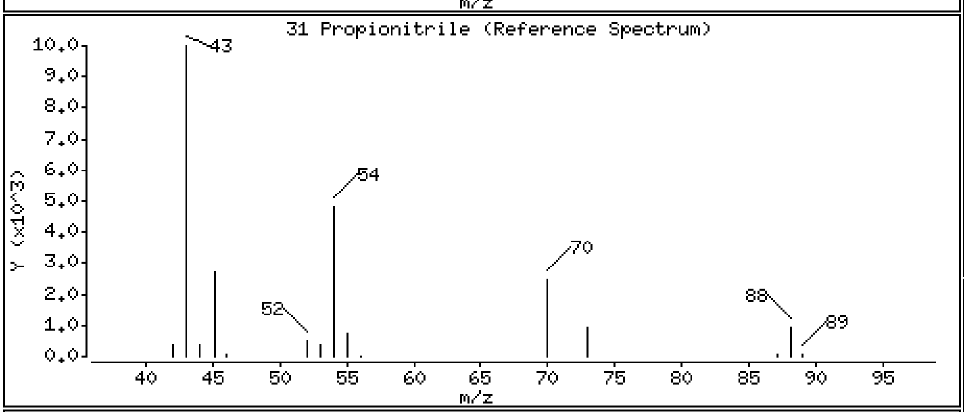
Review Code:

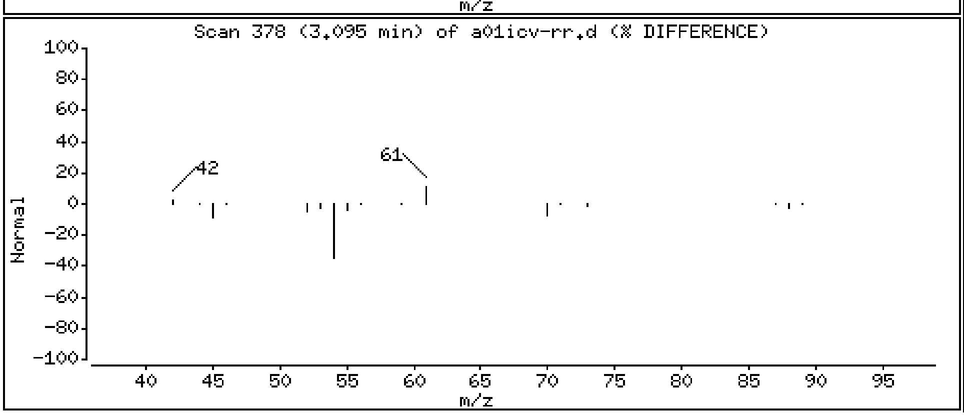


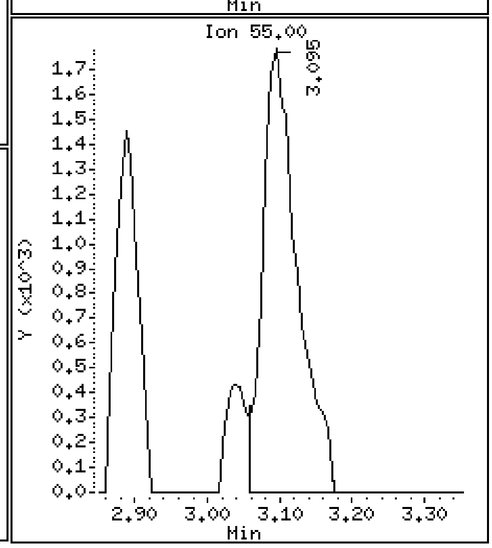












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Date : 26-JAN-2023 09:06

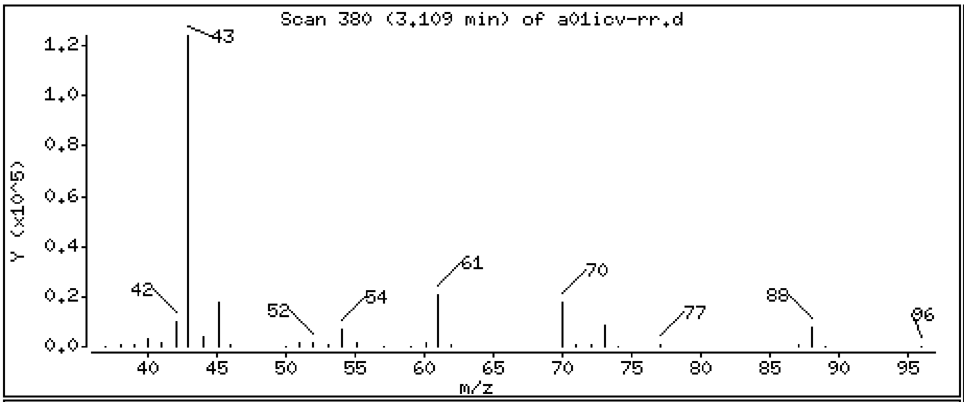
Client ID: Instrument: 50mv2a.i

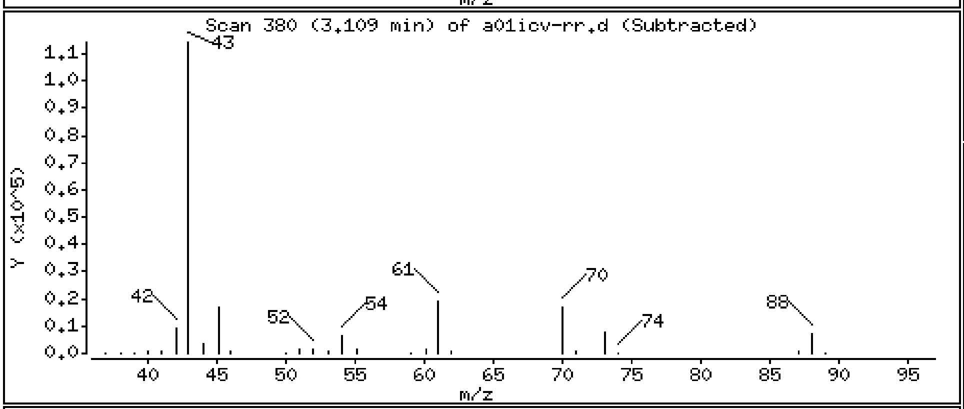
Sample Info: 8260-ICV,336828

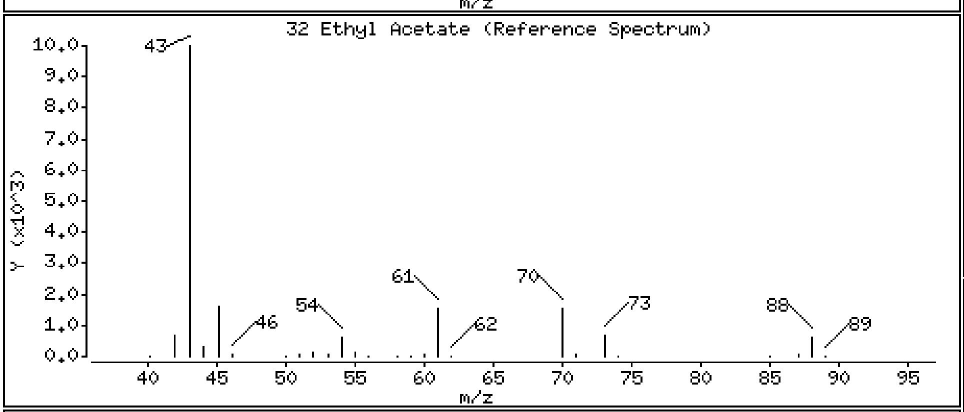
Purge Volume: 5.0 Operator: tkg

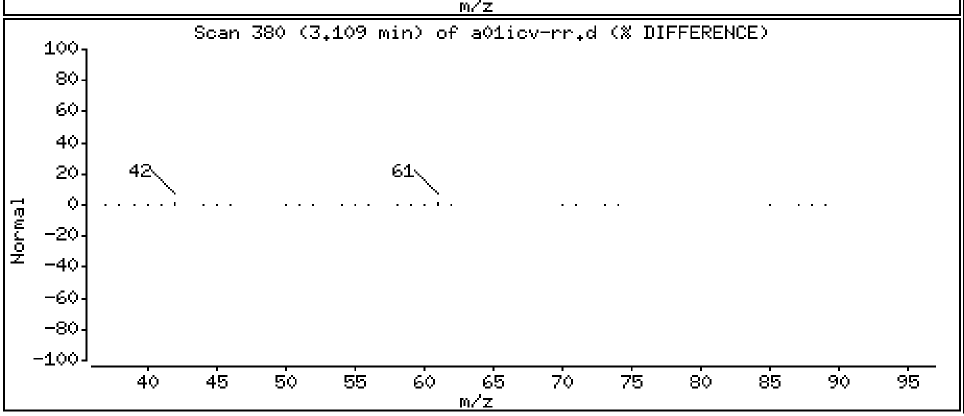
Column phase: DB-624 Column diameter: 0.18

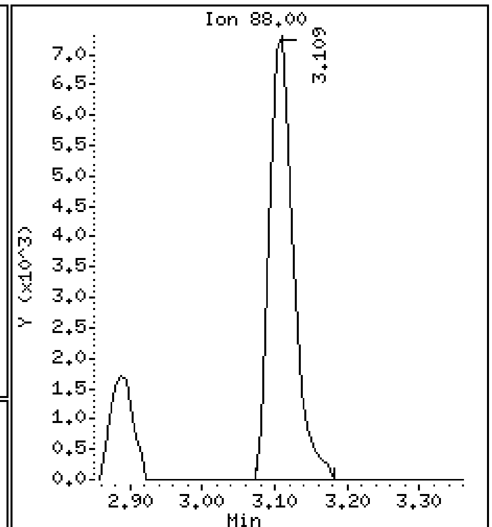
32 Ethyl Acetate Concentration: 261 ppb Review Code:

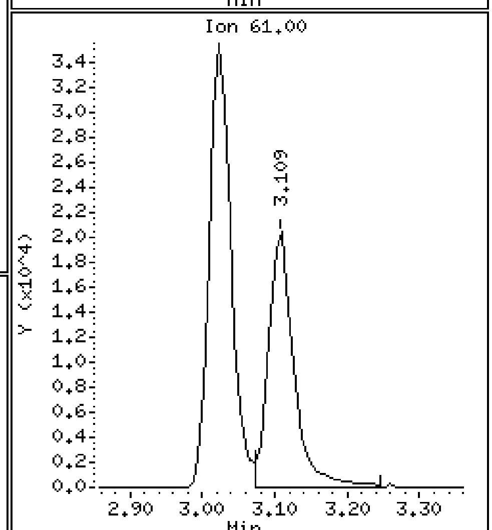


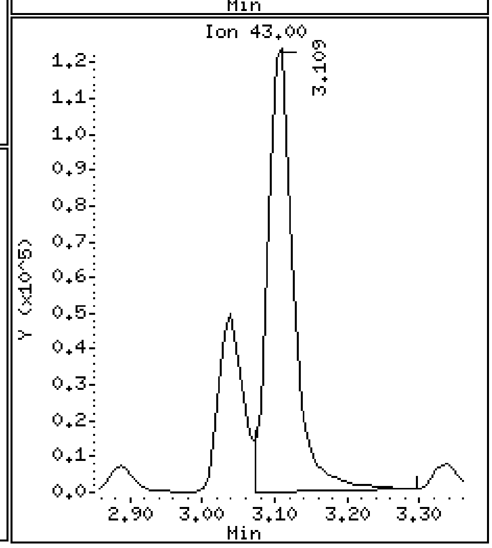












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Date : 26-JAN-2023 09:06

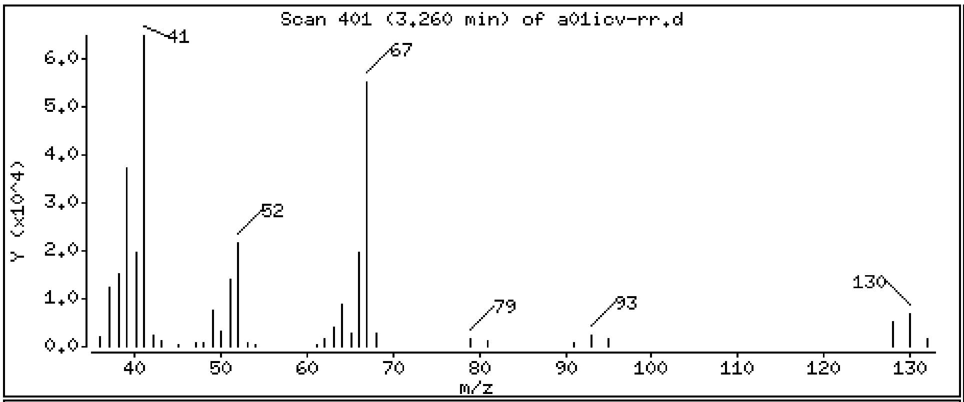
Client ID: Instrument: 50mv2a.i

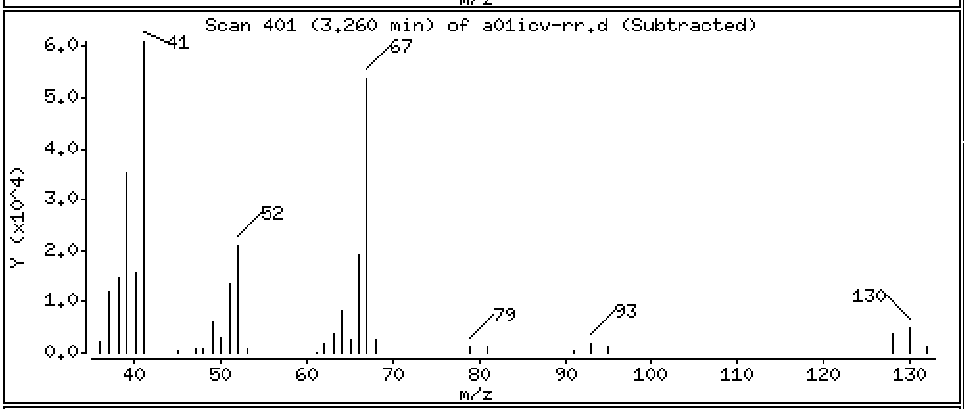
Sample Info: 8260-ICV,336828

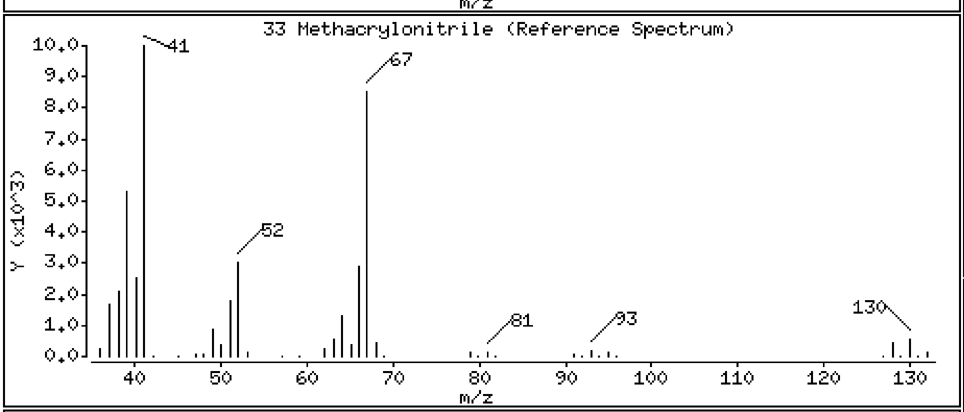
Purge Volume: 5.0 Operator: tkg

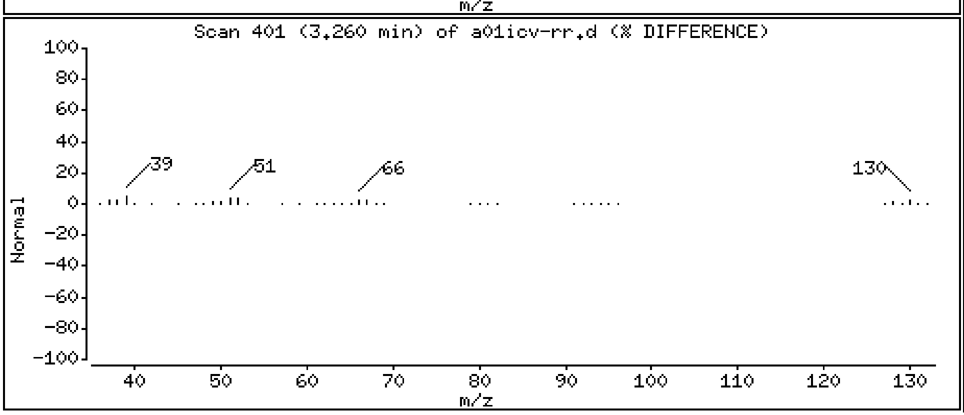
Column phase: DB-624 Column diameter: 0.18

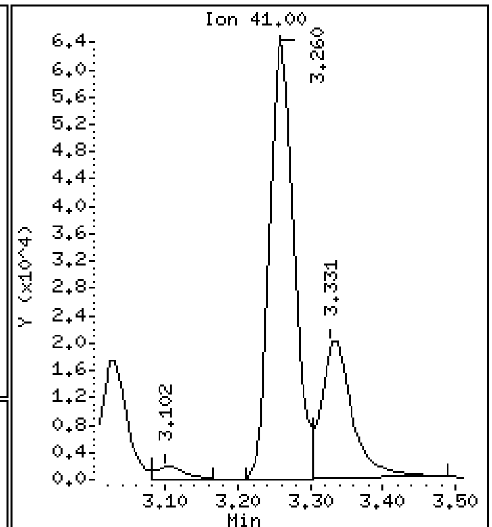
33 Methacrylonitrile Concentration: 267 ppb Review Code:

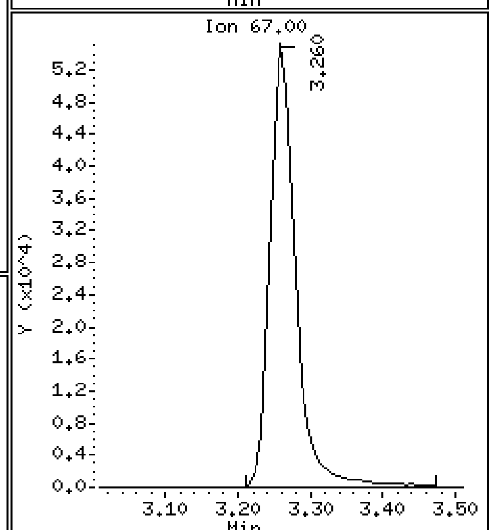


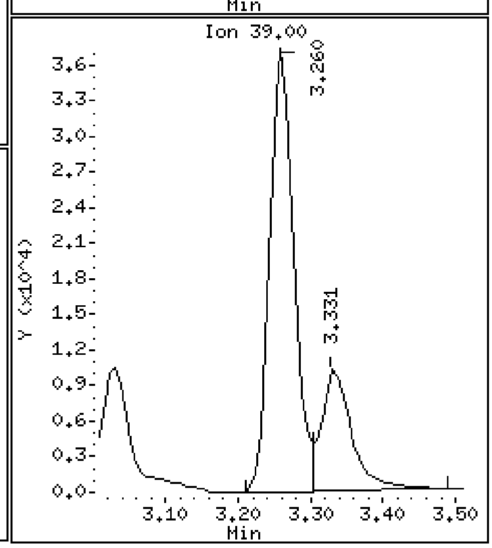












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Date : 26-JAN-2023 09:06

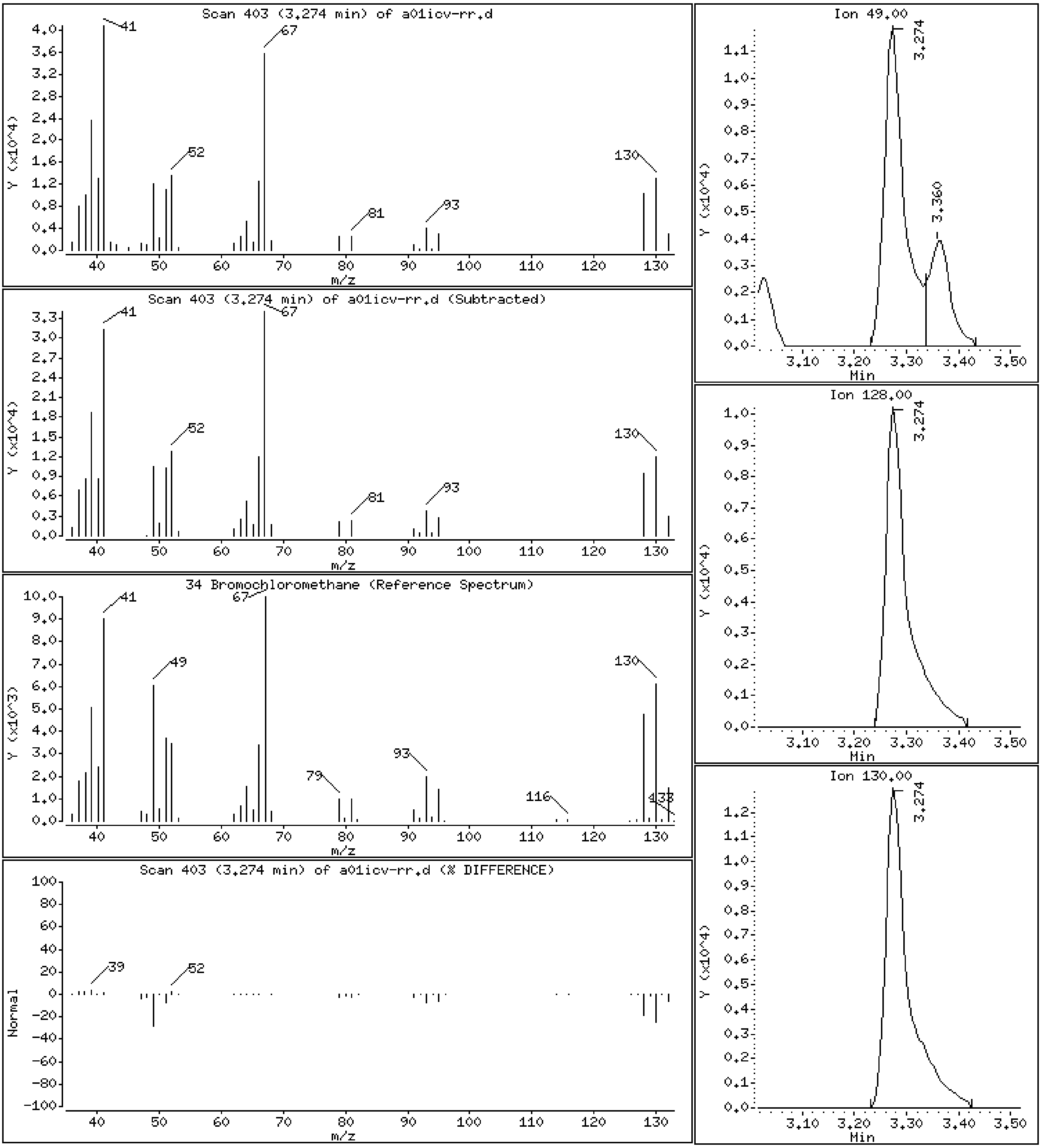
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

34 Bromochloromethane Concentration: 51.7 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

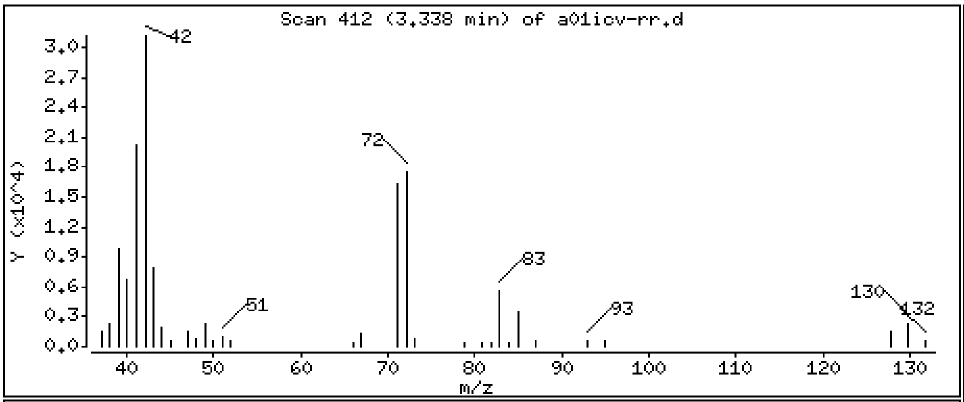
Column phase: DB-624

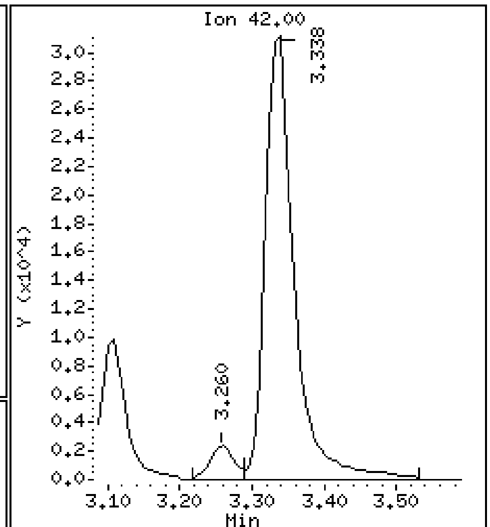
Column diameter: 0.18

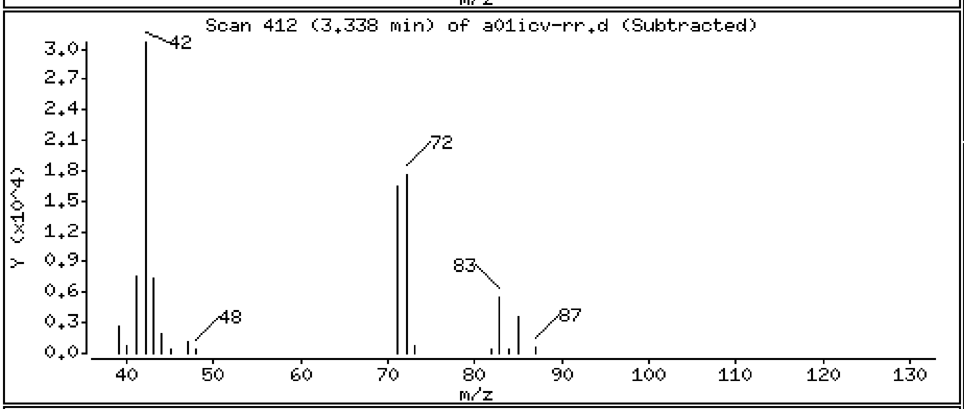
35 Tetrahydrofuran

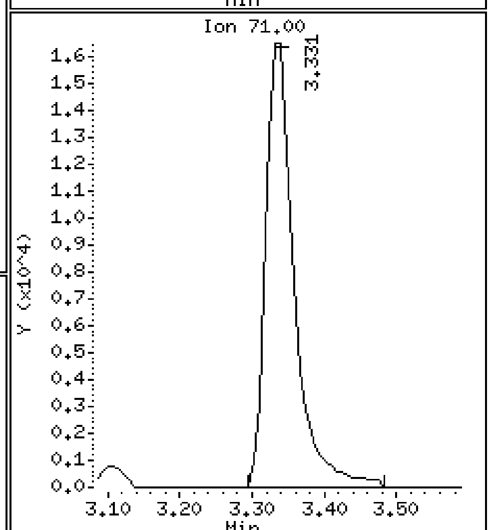
Concentration: 262 ppb

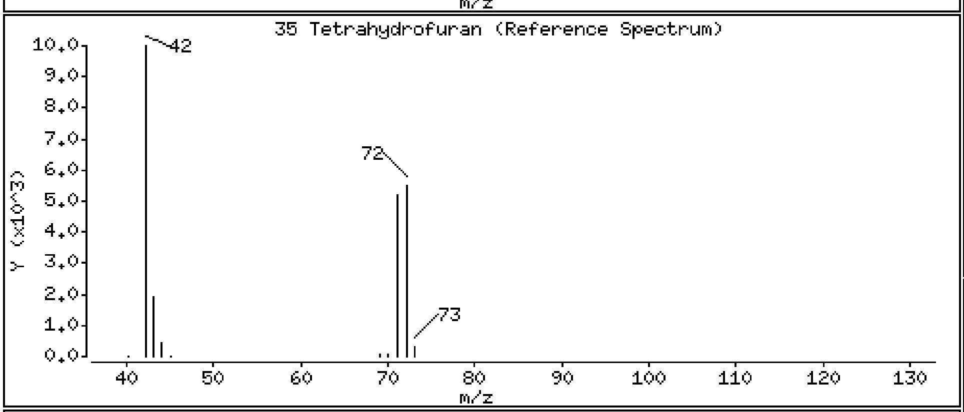
Review Code:

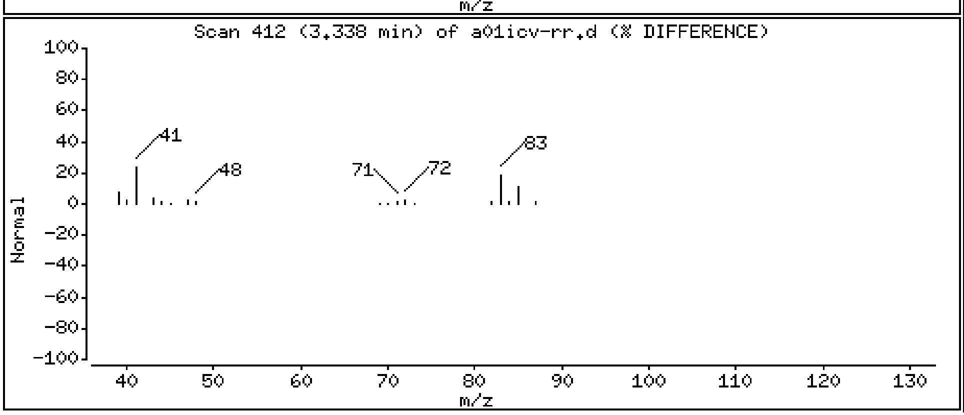


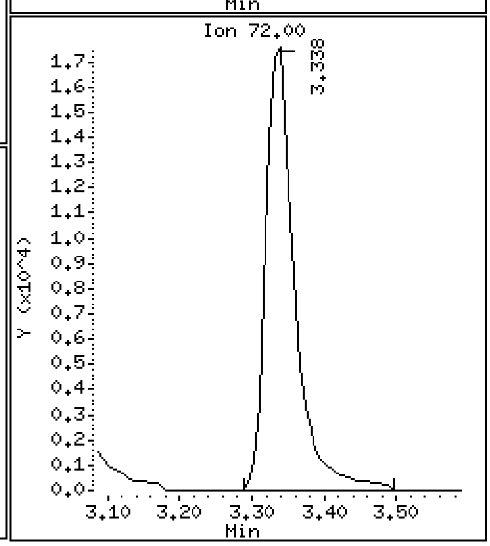












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

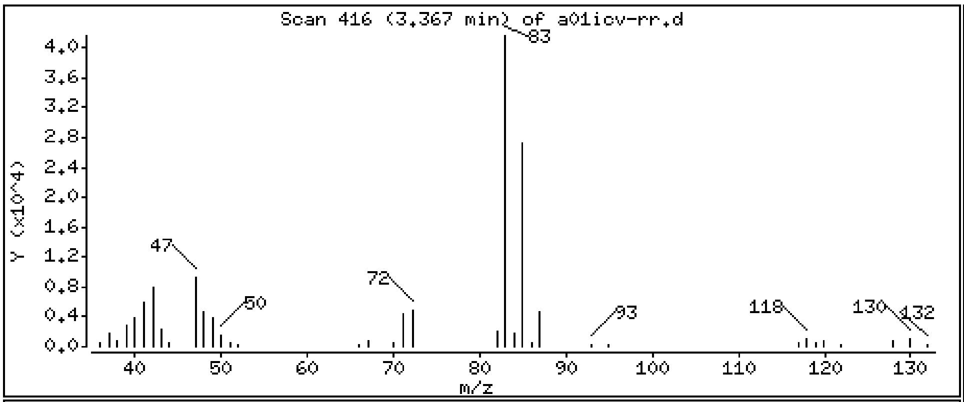
Column phase: DB-624

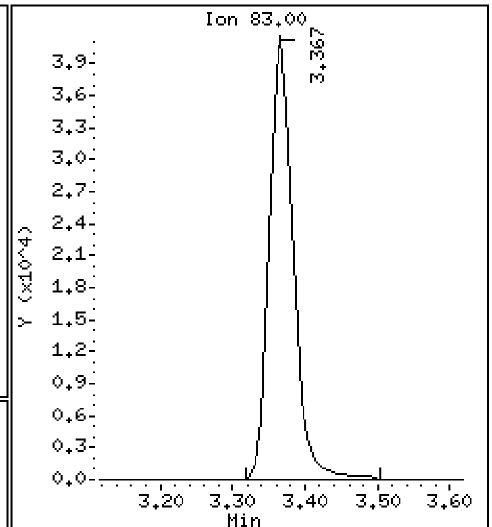
Column diameter: 0.18

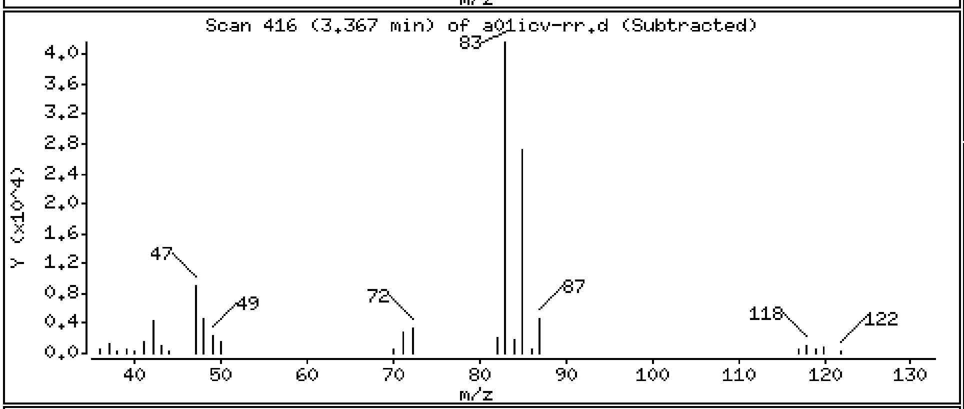
36 Chloroform

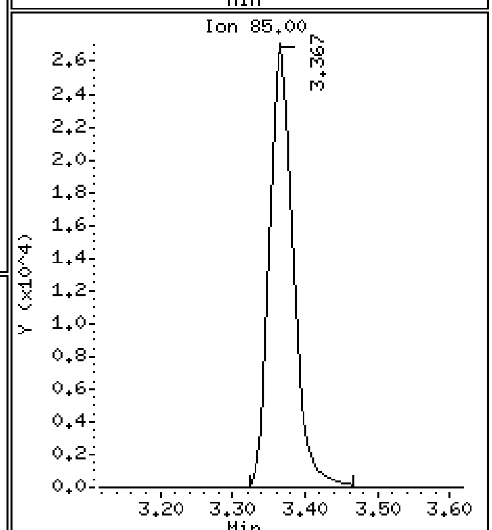
Concentration: 52.0 ppb

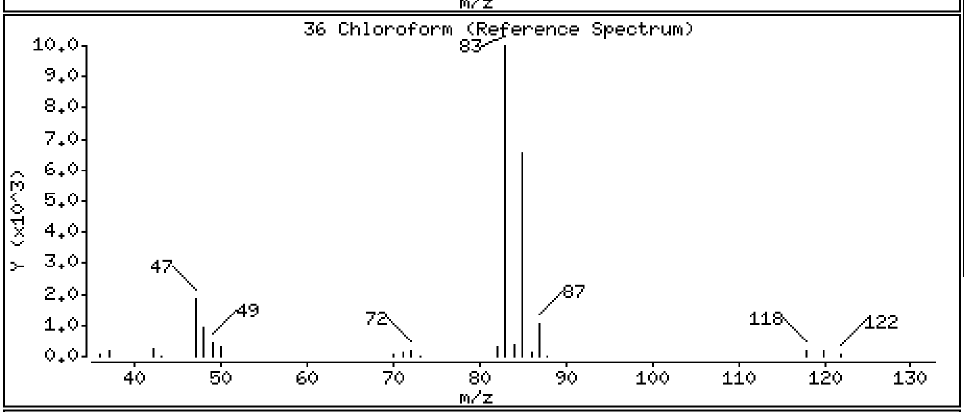
Review Code:

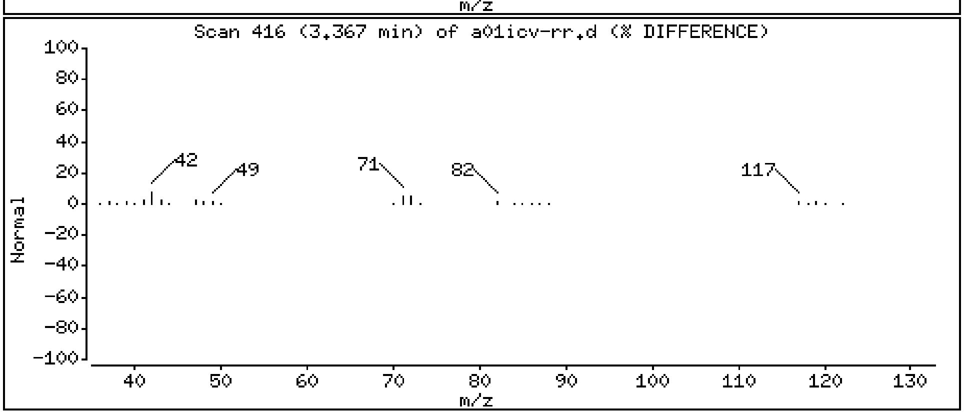












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

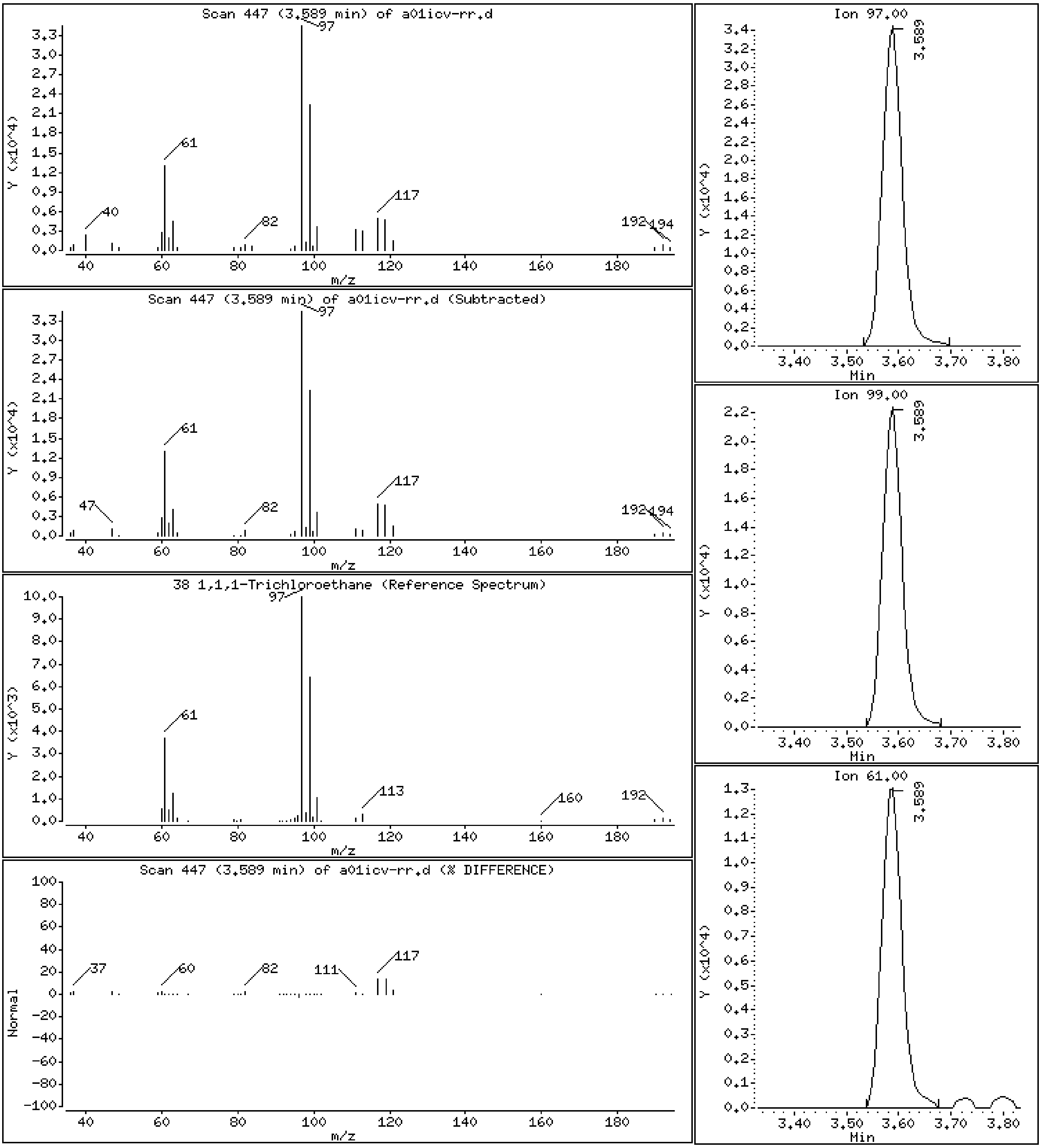
Column phase: DB-624

Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 55.4 ppb

Review Code:



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Date : 26-JAN-2023 09:06

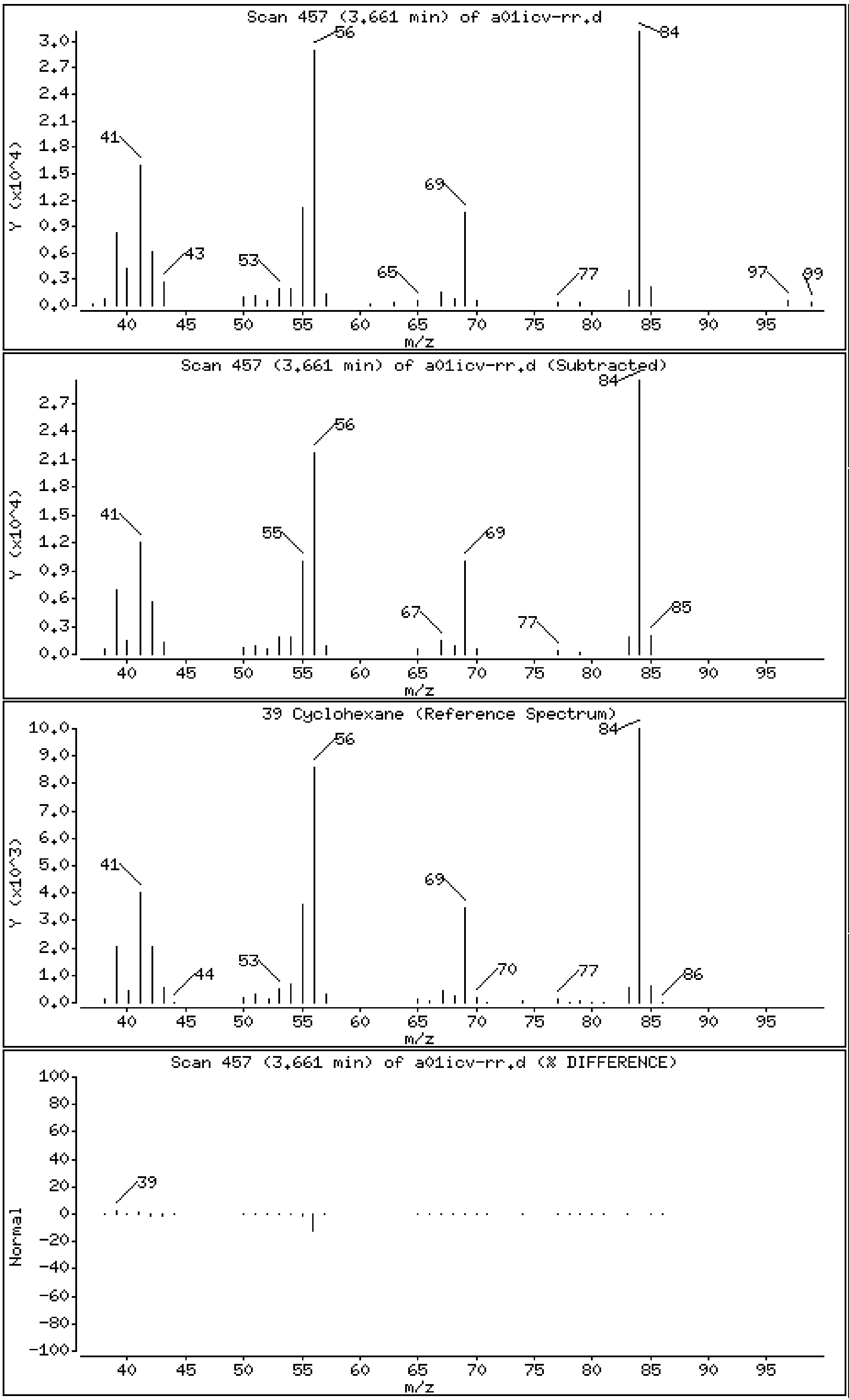
Client ID: Instrument: 50mv2a.i

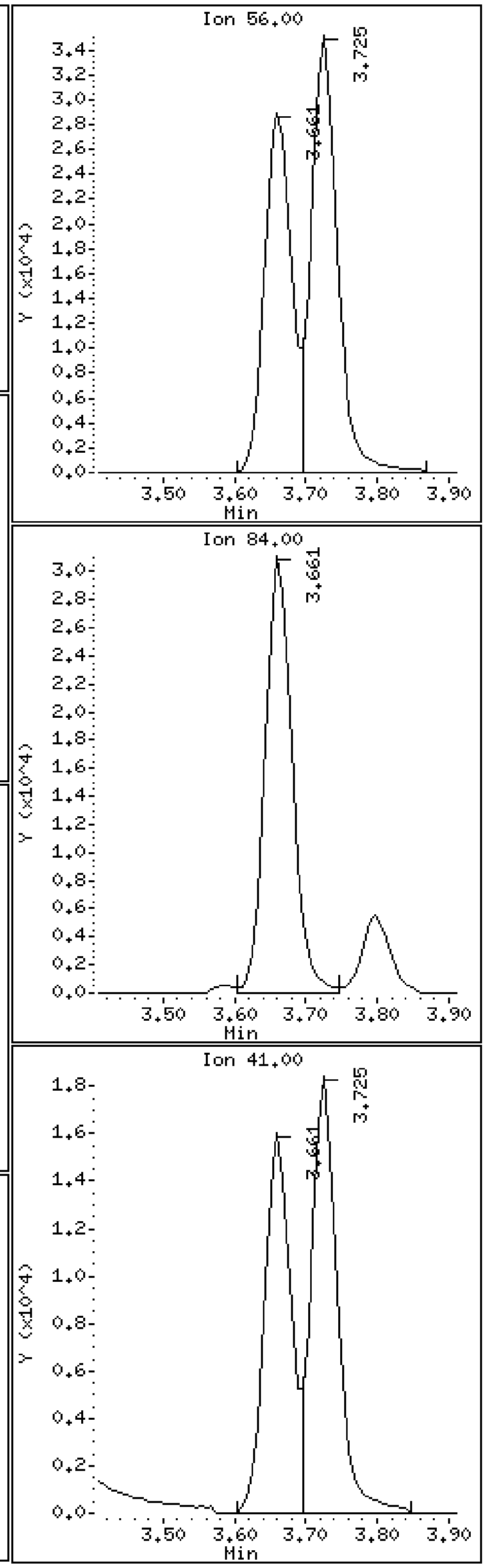
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

39 Cyclohexane Concentration: 55.1 ppb Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

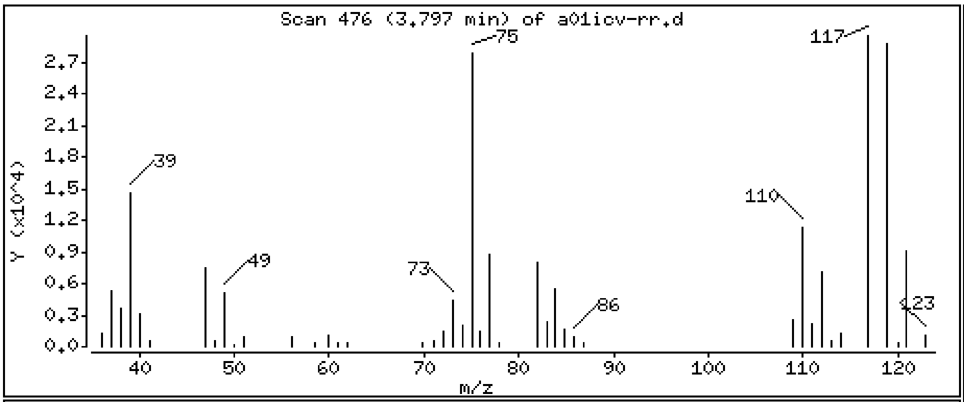
Column phase: DB-624

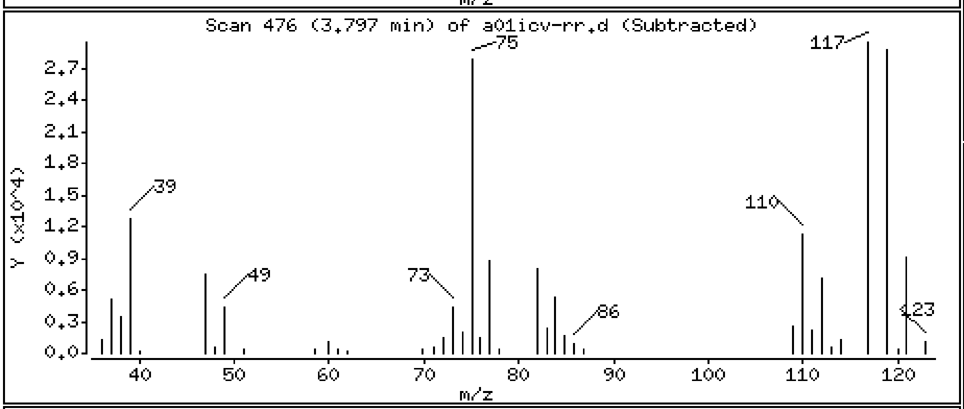
Column diameter: 0.18

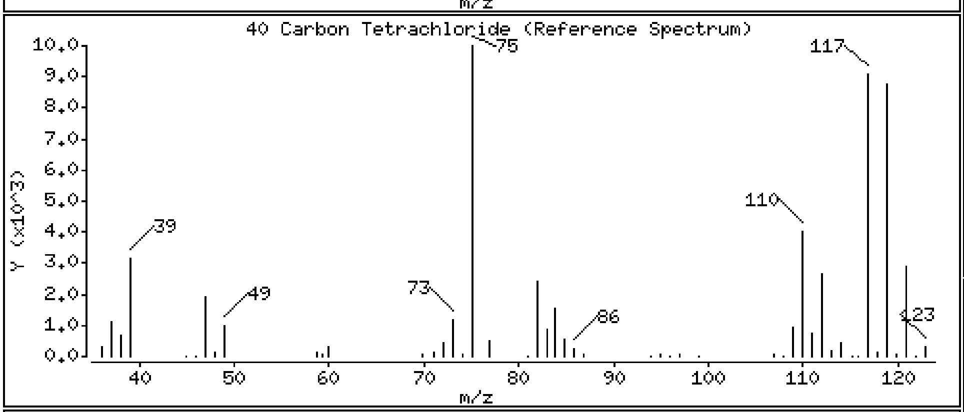
40 Carbon Tetrachloride

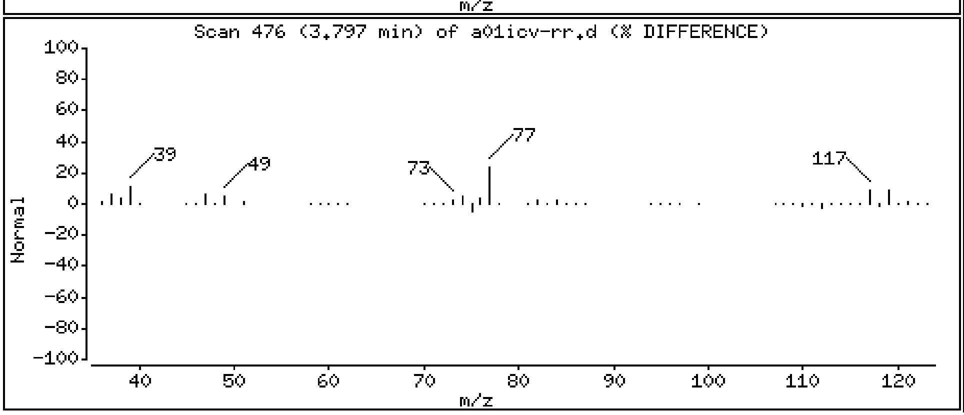
Concentration: 54.9 ppb

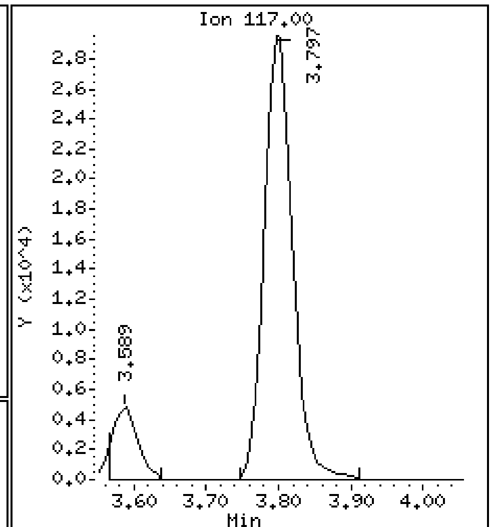
Review Code:

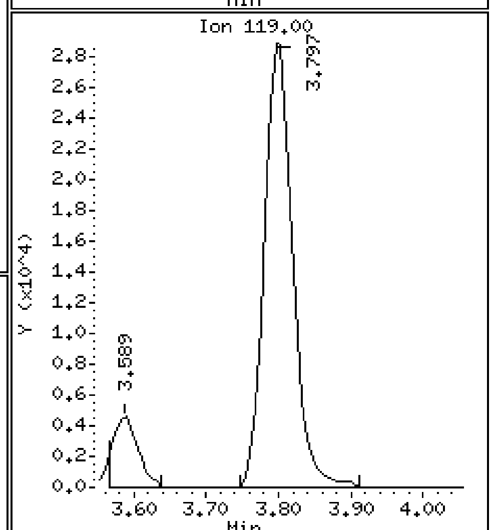


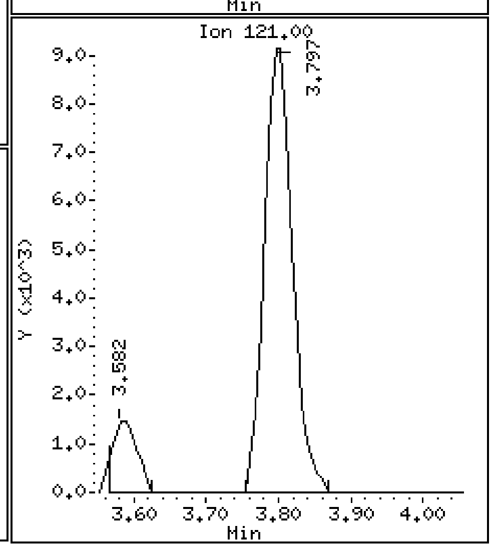












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Date : 26-JAN-2023 09:06

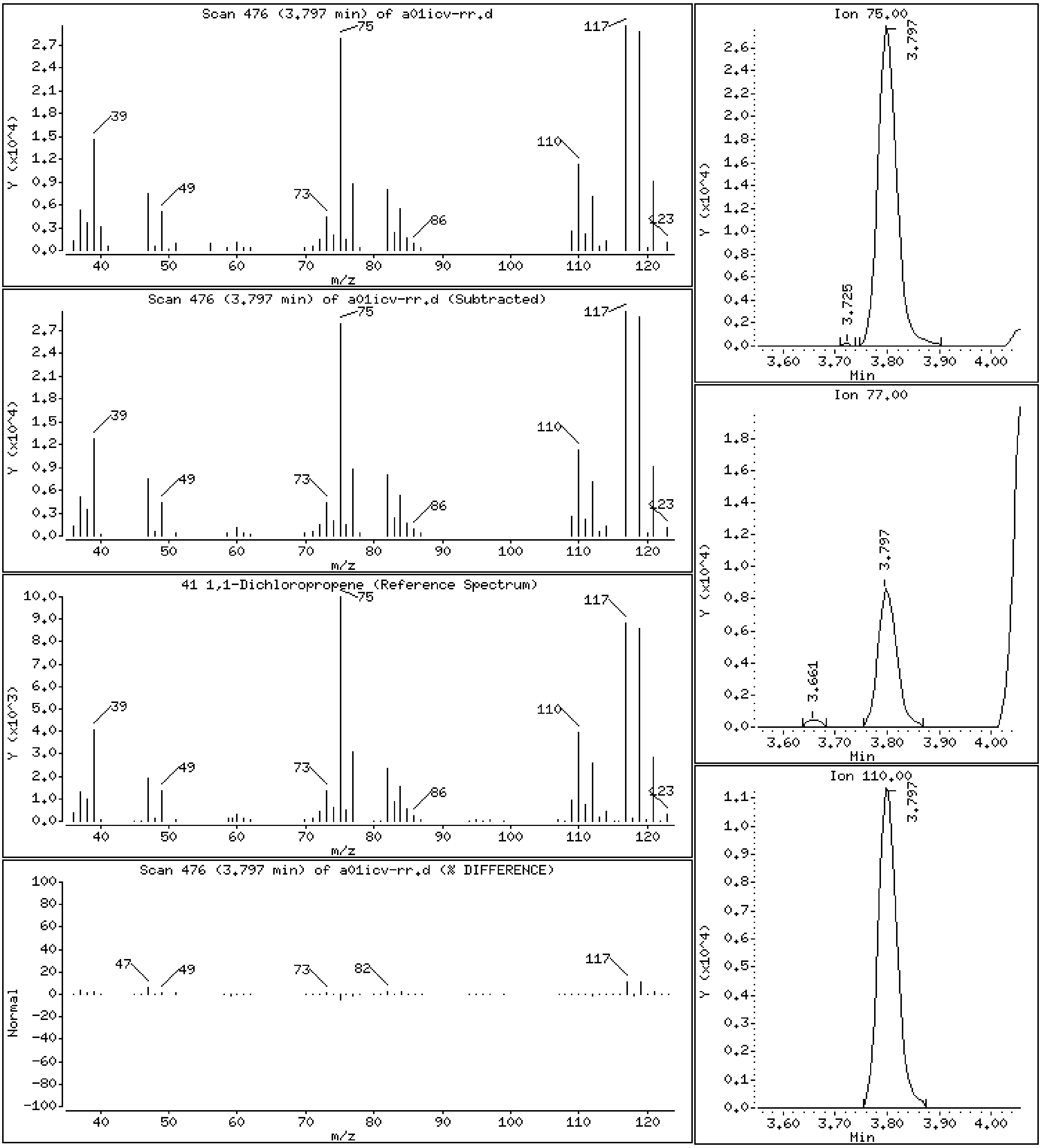
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

41 1,1-Dichloropropene Concentration: 57.5 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

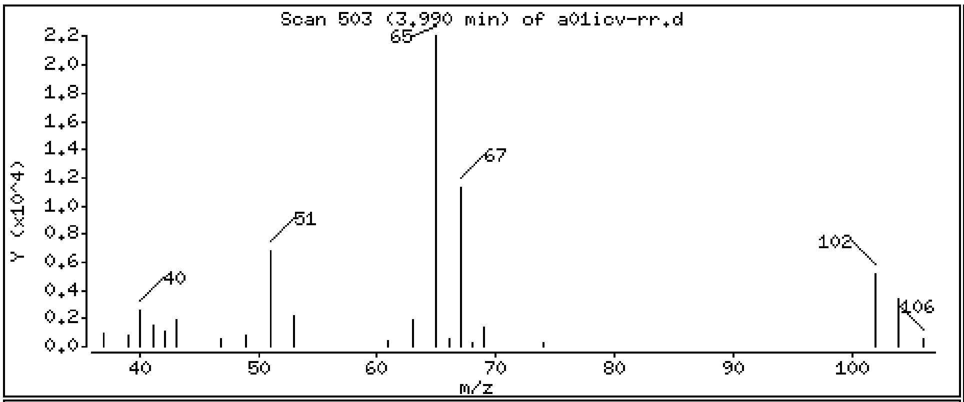
Column phase: DB-624

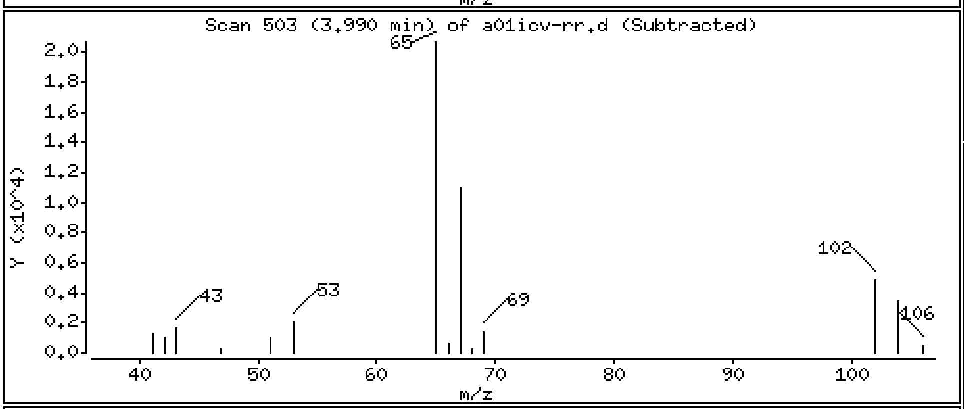
Column diameter: 0.18

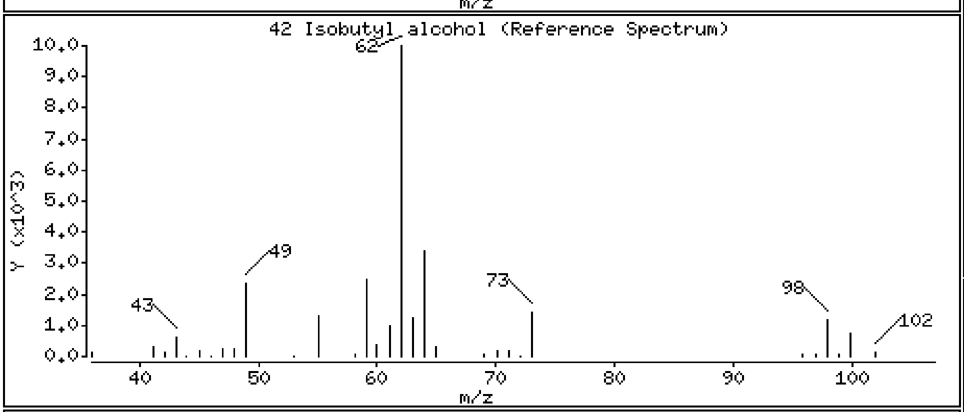
42 Isobutyl alcohol

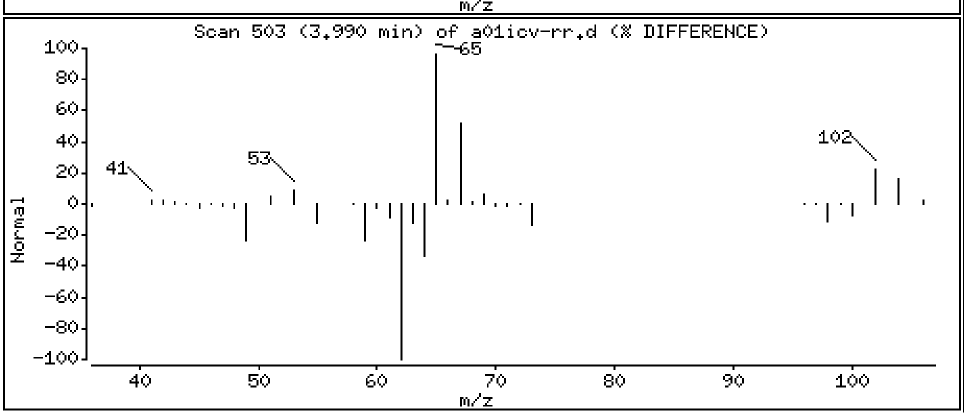
Concentration: 238 ppb

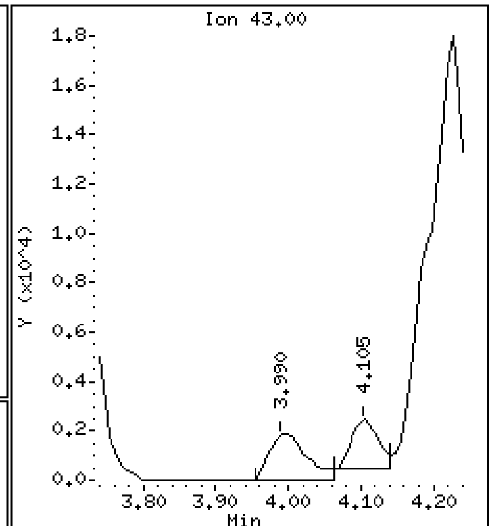
Review Code:

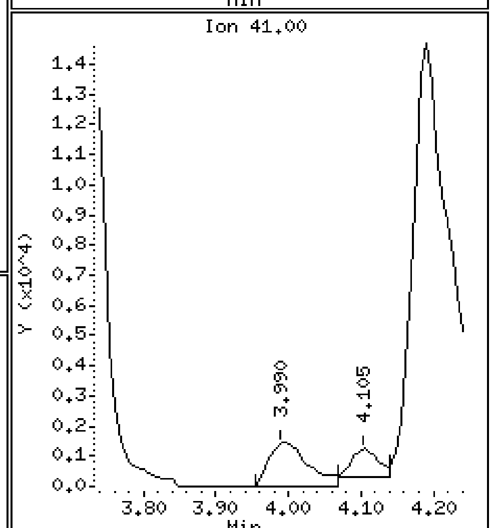


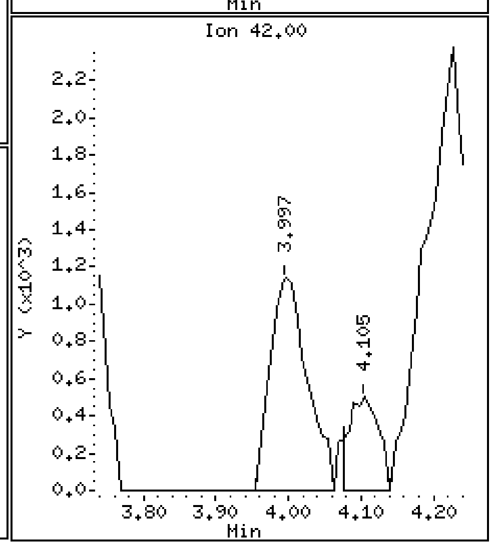












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

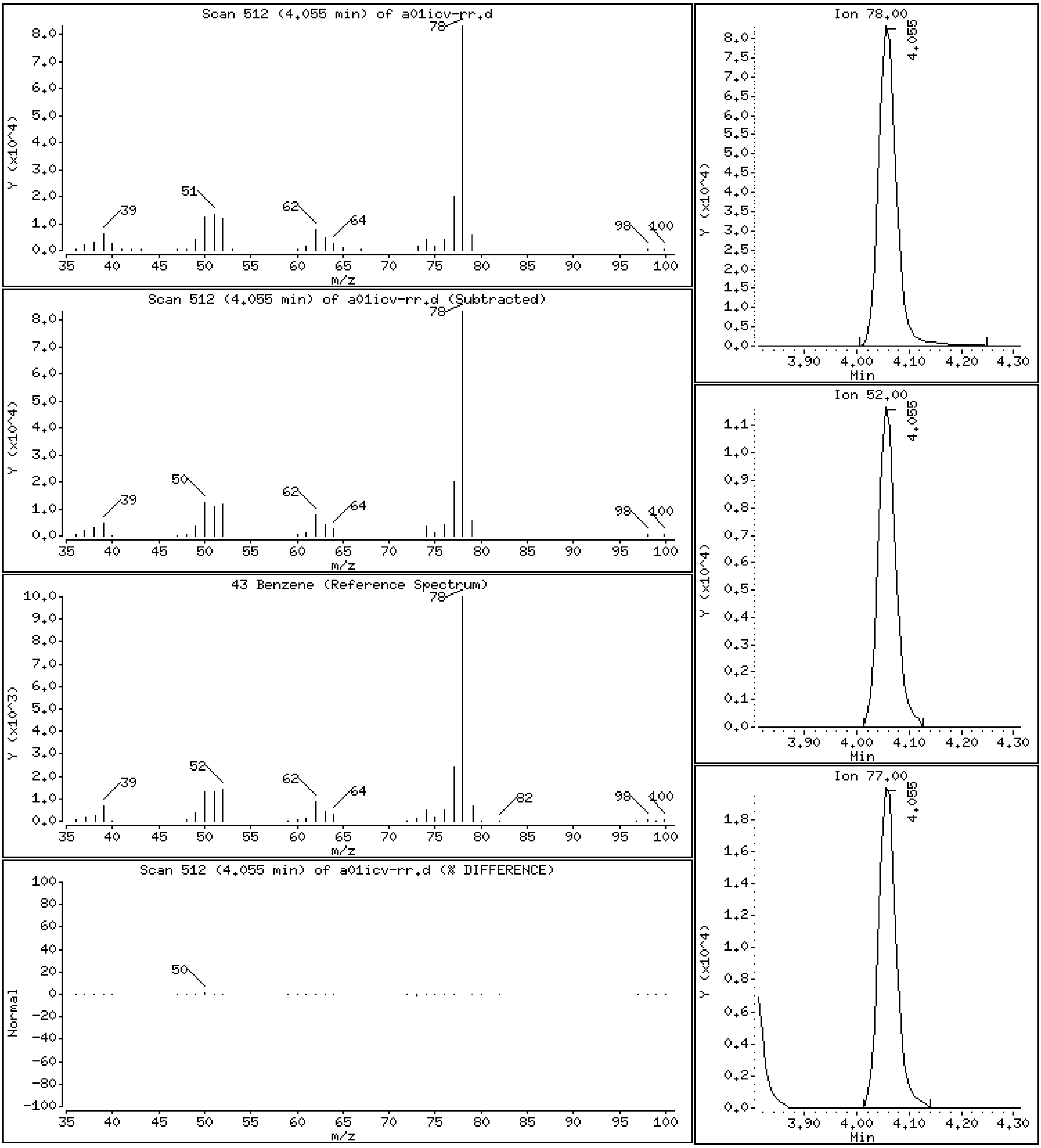
Column phase: DB-624

Column diameter: 0.18

43 Benzene

Concentration: 50.5 ppb

Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

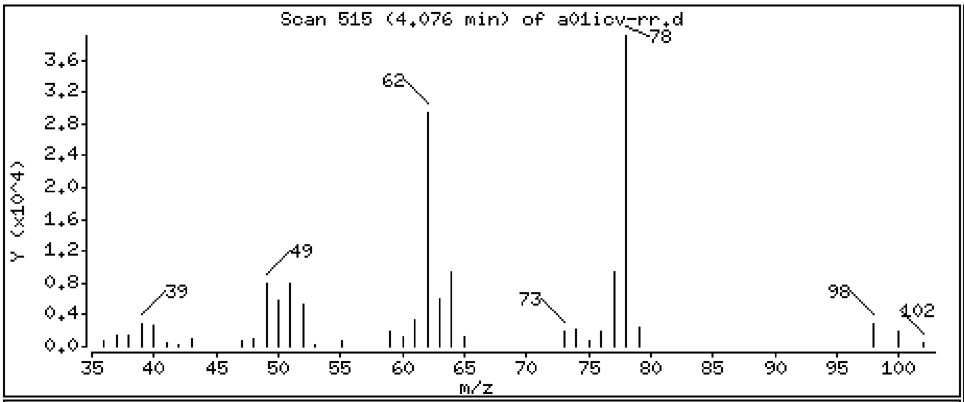
Column phase: DB-624

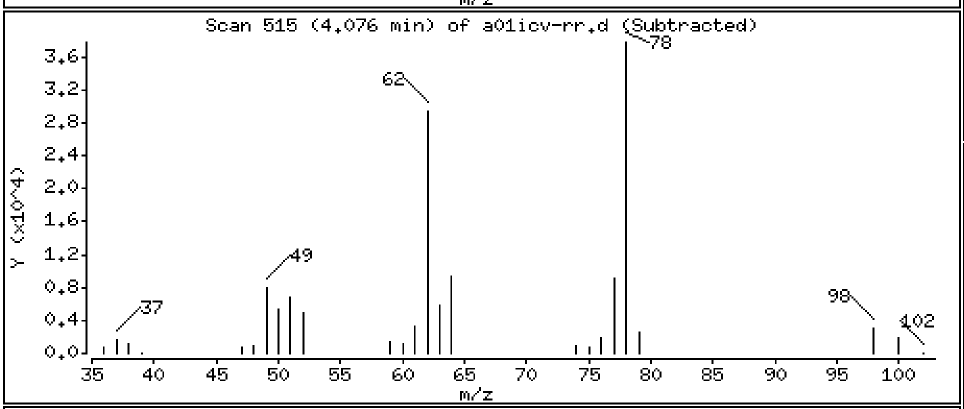
Column diameter: 0.18

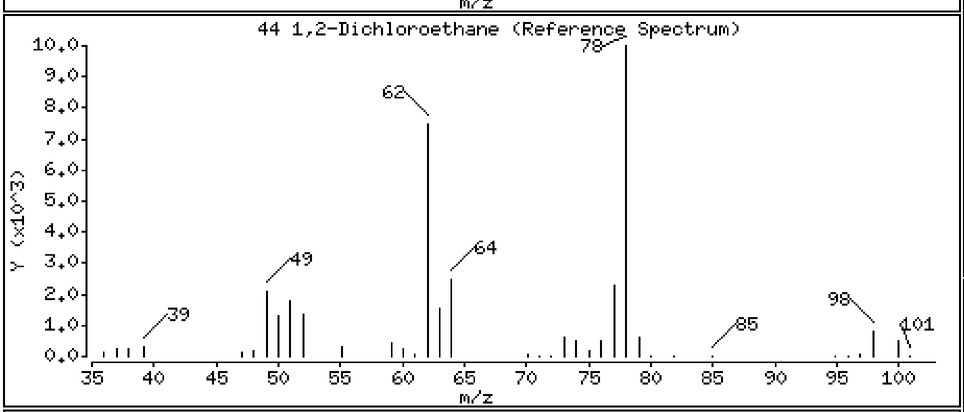
44 1,2-Dichloroethane

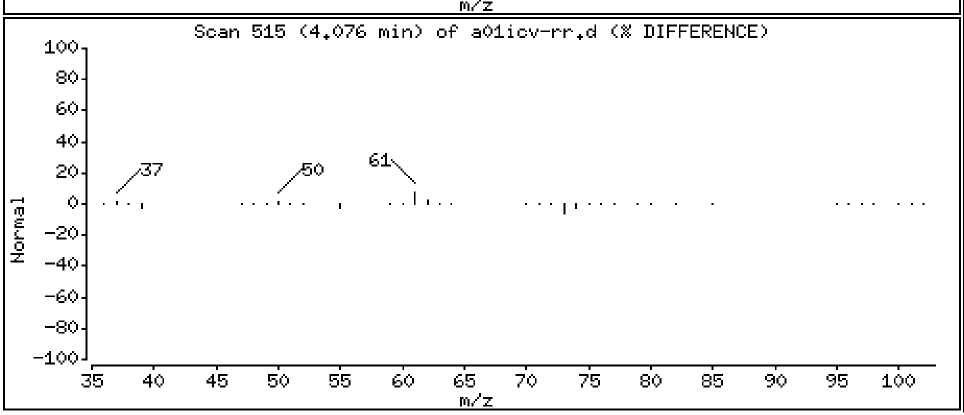
Concentration: 51.4 ppb

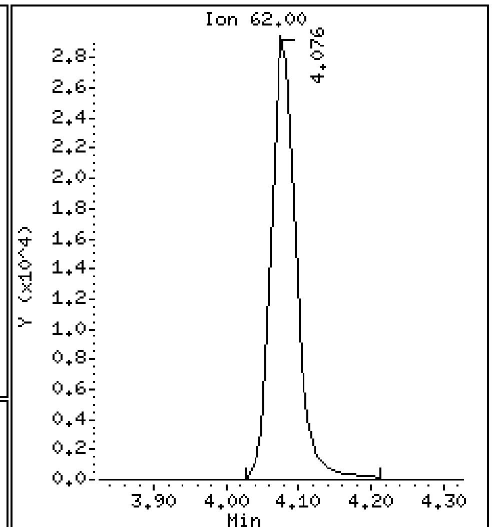
Review Code:

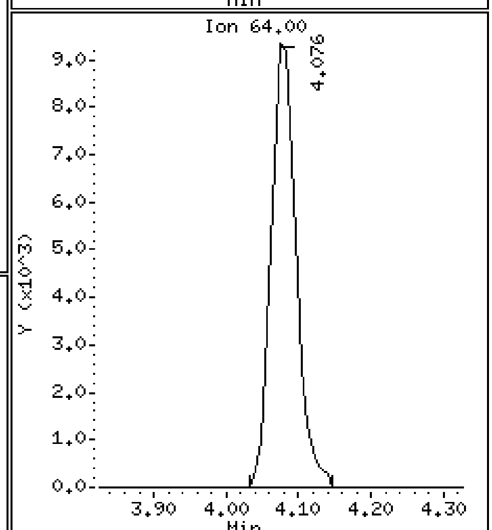


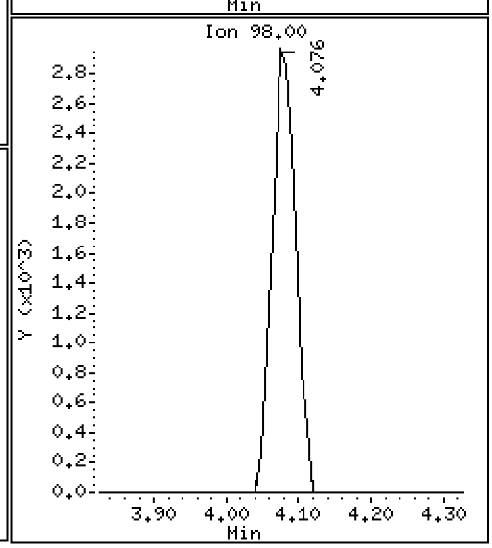












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

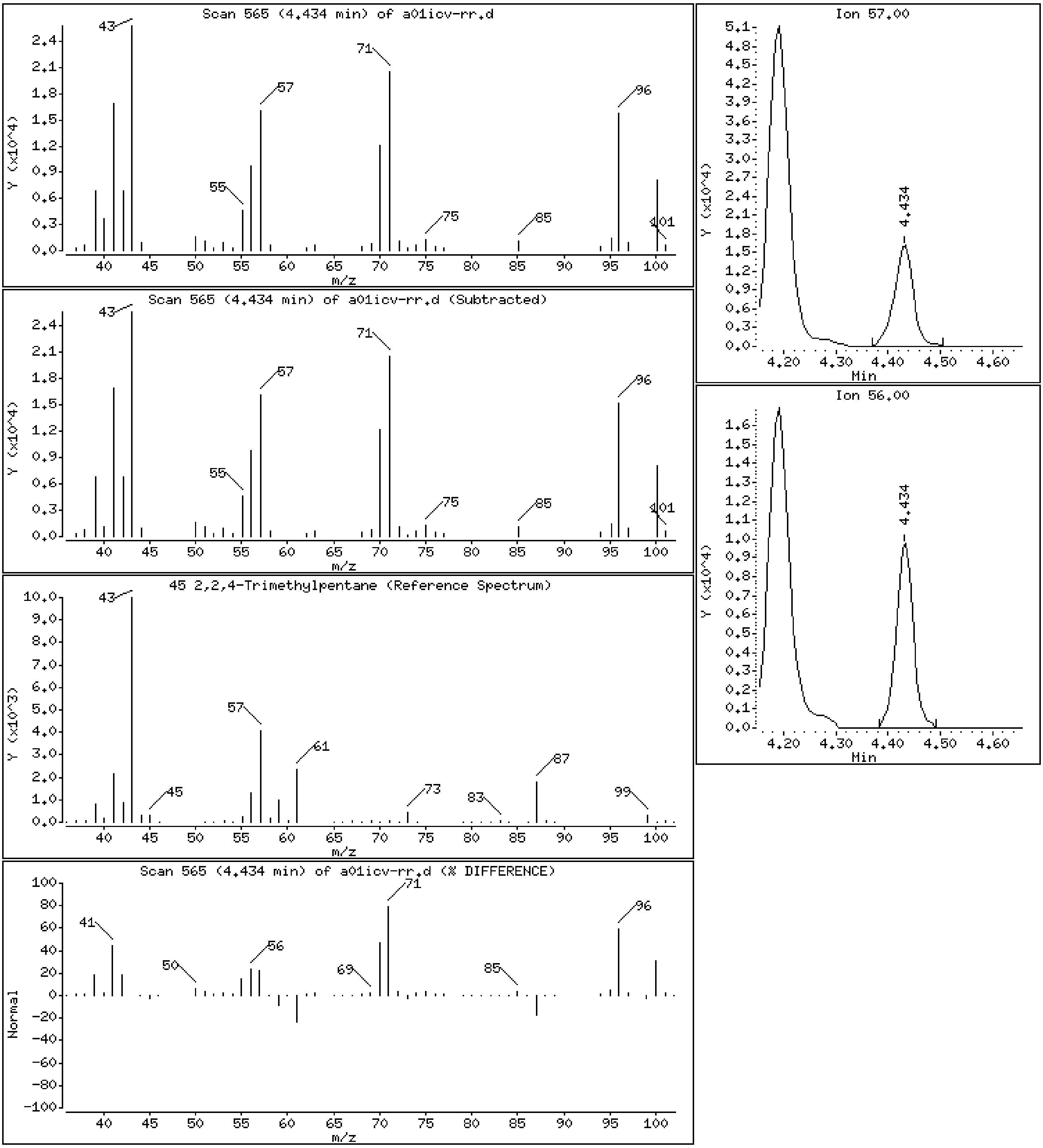
Column phase: DB-624

Column diameter: 0.18

45 2,2,4-Trimethylpentane

Concentration: 52.1 ppb

Review Code:



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Date : 26-JAN-2023 09:06

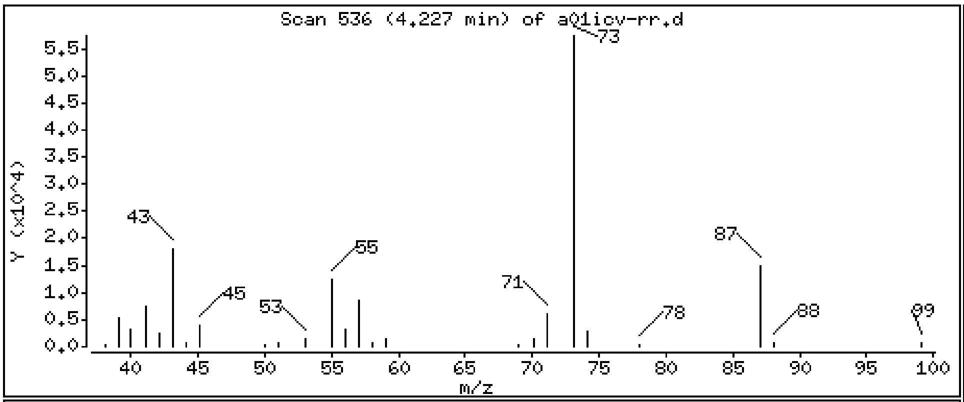
Client ID: Instrument: 50mv2a.i

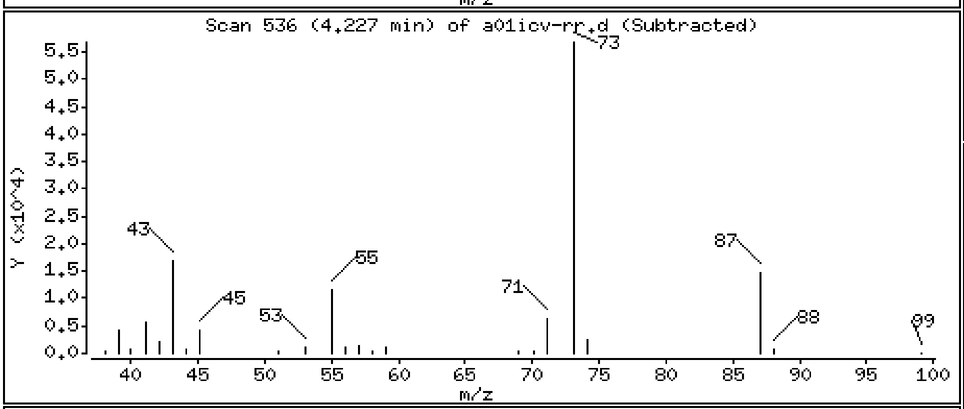
Sample Info: 8260-ICV,336828

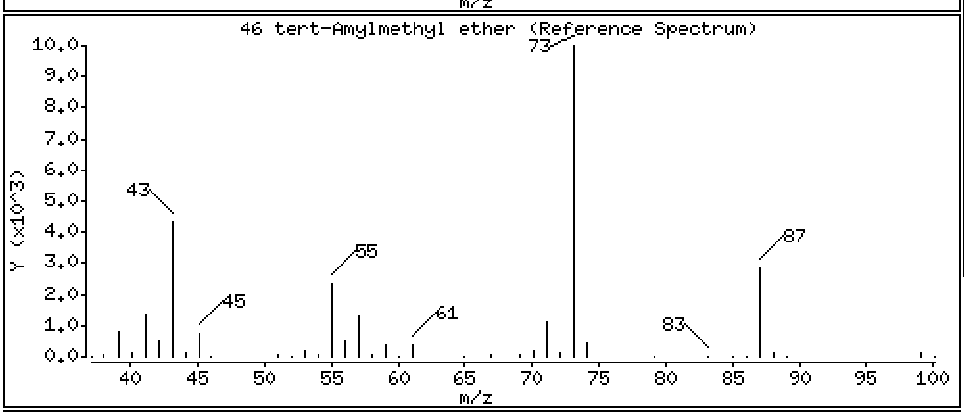
Purge Volume: 5.0 Operator: tkg

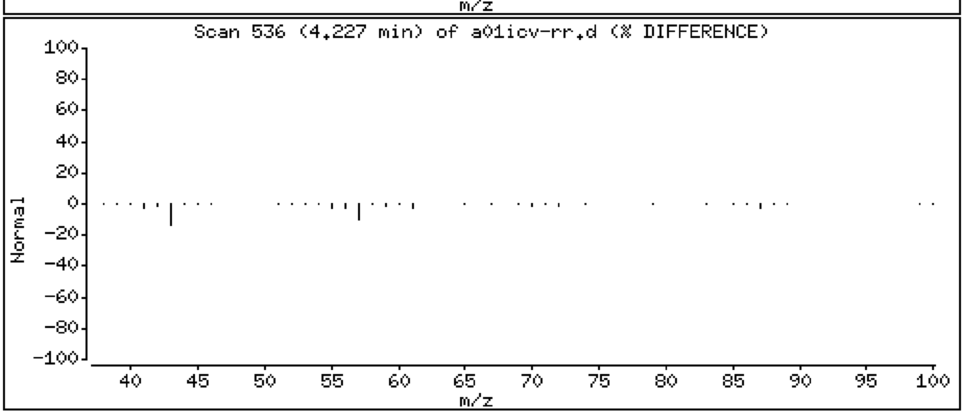
Column phase: DB-624 Column diameter: 0.18

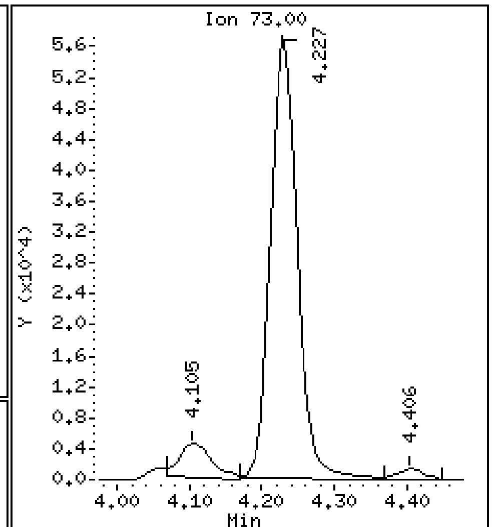
46 tert-Amylmethyl ether Concentration: 50.6 ppb Review Code:

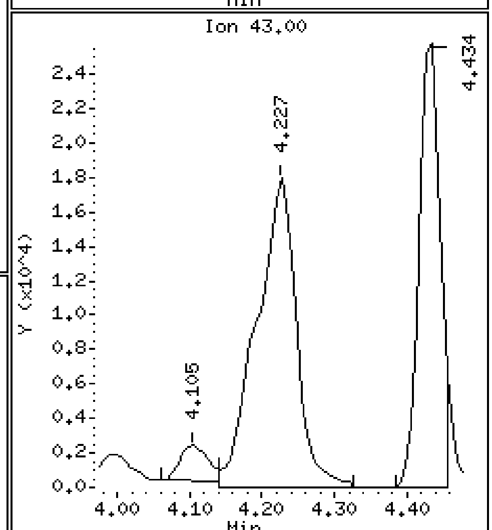












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

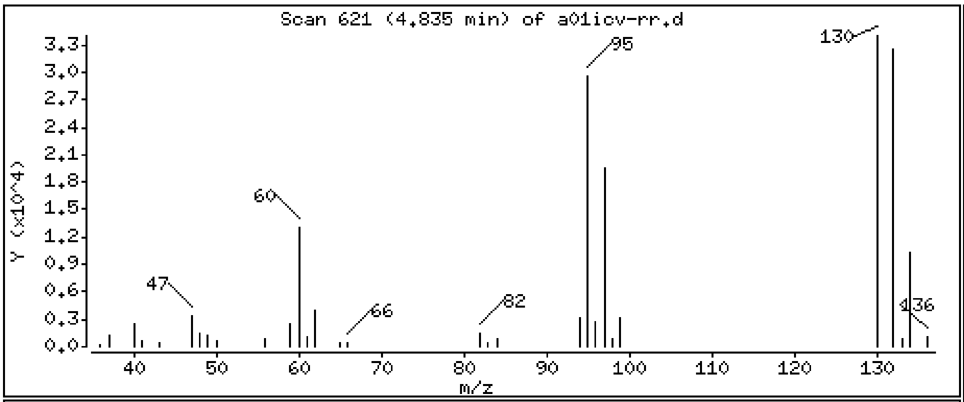
Column phase: DB-624

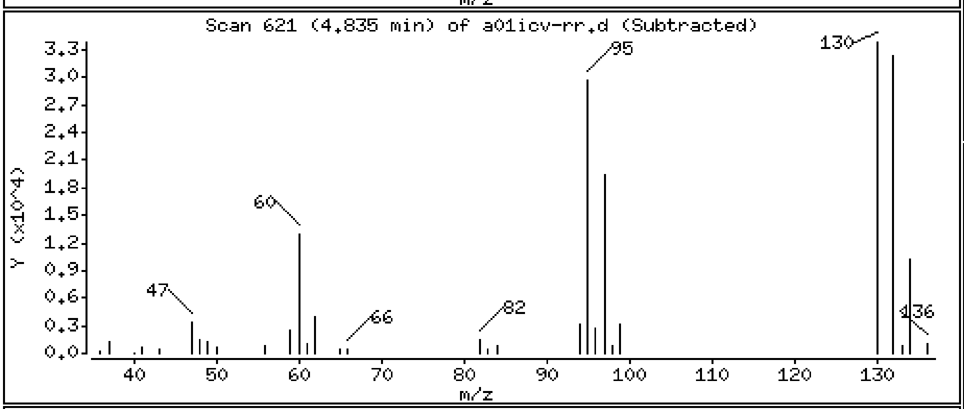
Column diameter: 0.18

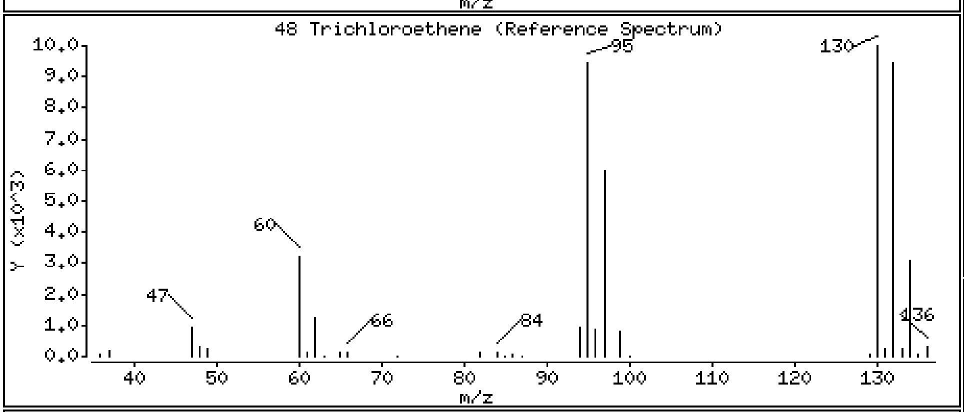
48 Trichloroethene

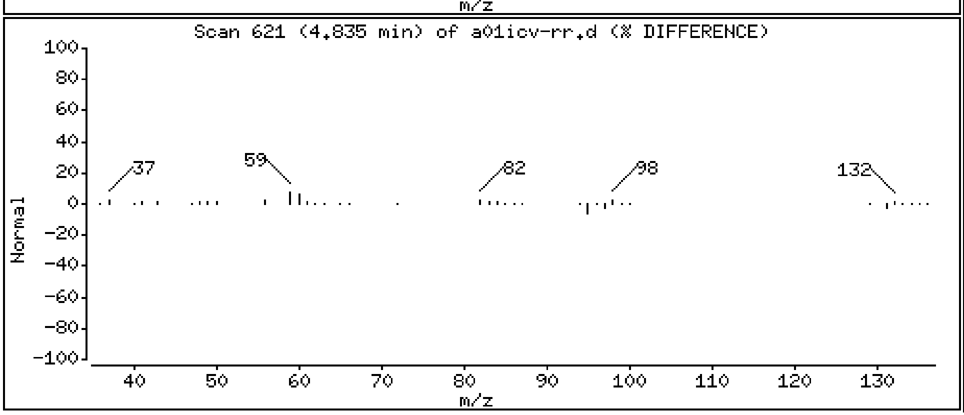
Concentration: 52.8 ppb

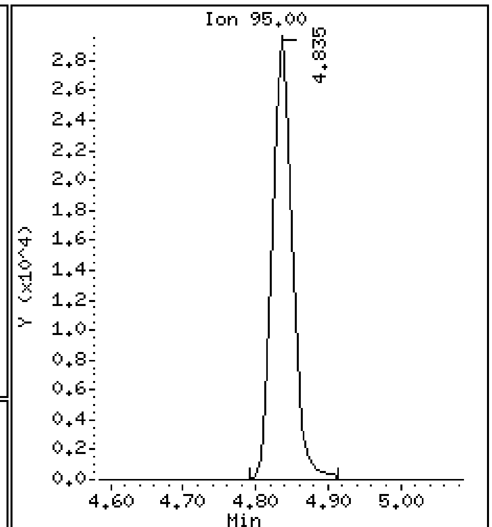
Review Code:

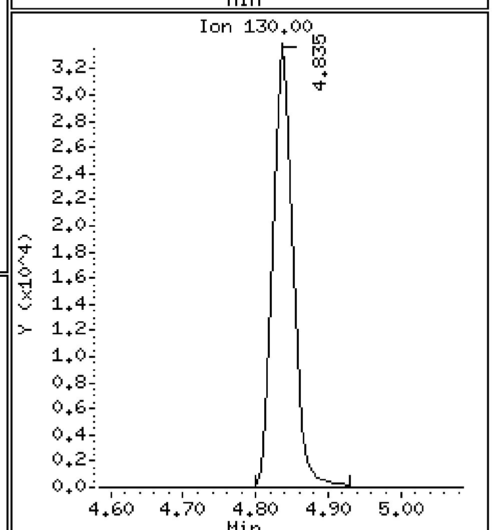


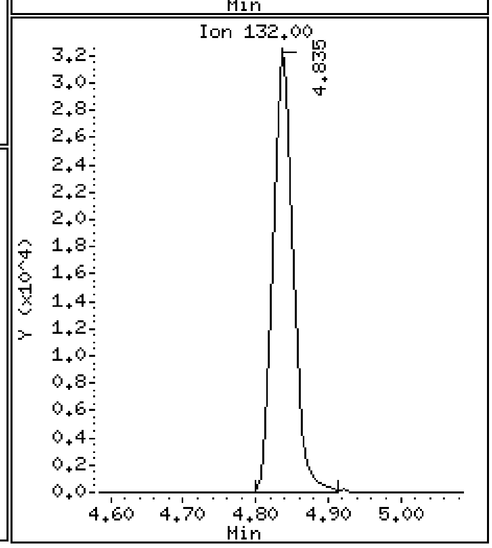












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Date : 26-JAN-2023 09:06

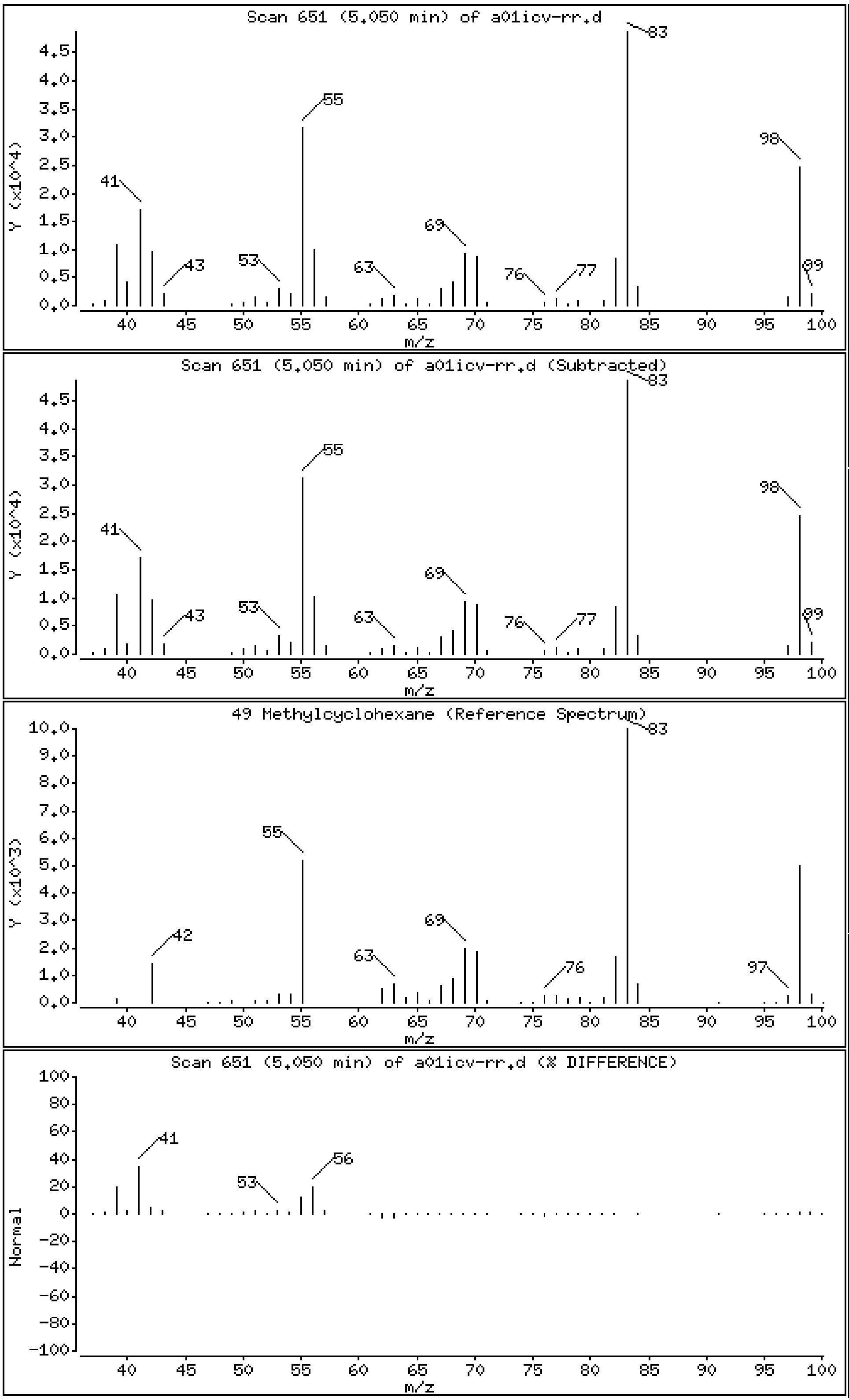
Client ID: Instrument: 50mv2a.i

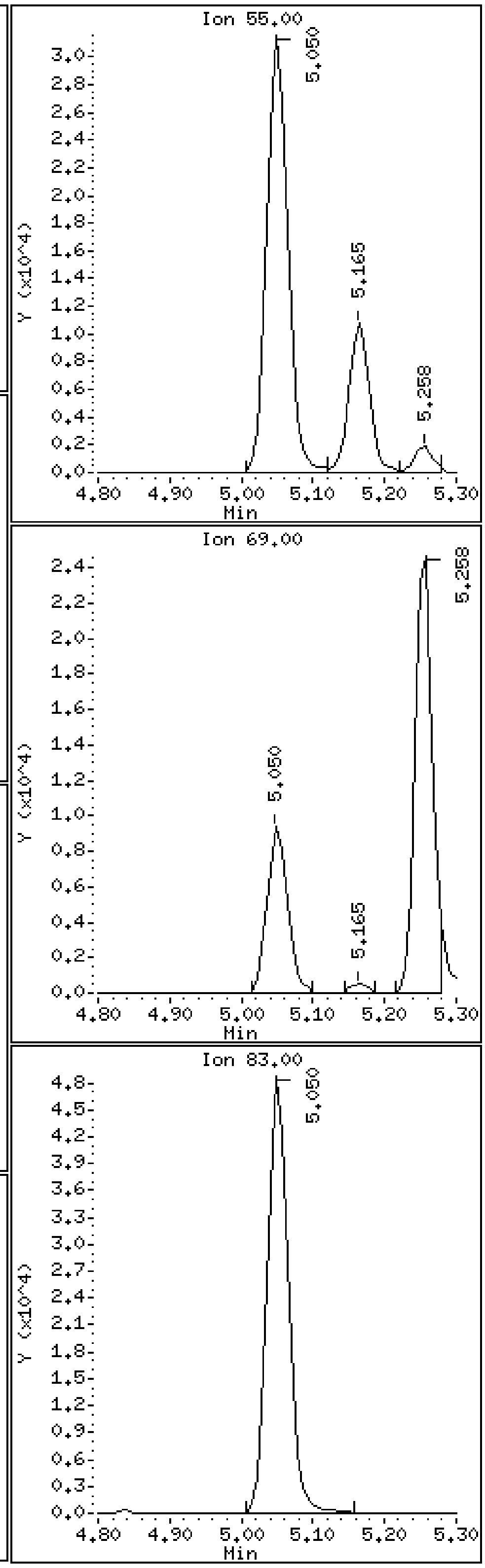
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

49 Methylcyclohexane Concentration: 53.6 ppb Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

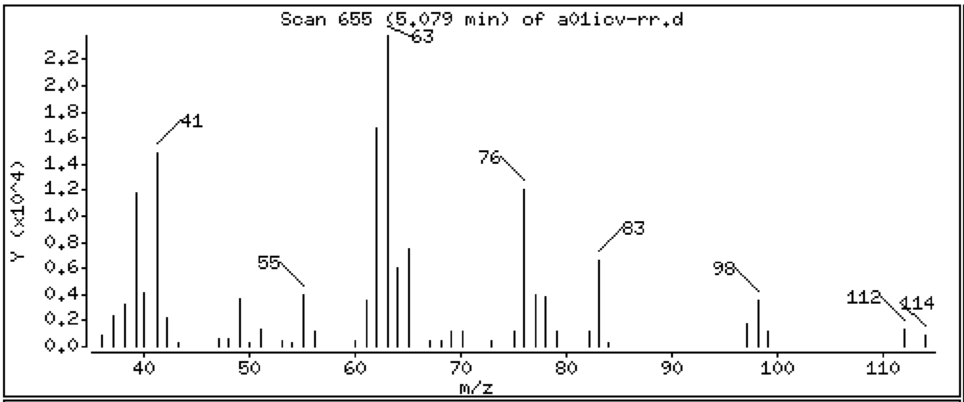
Column phase: DB-624

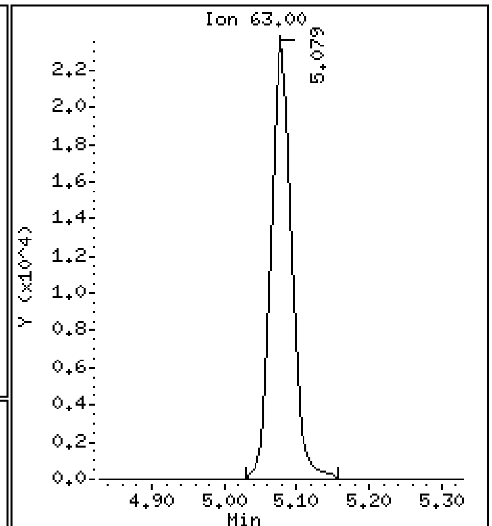
Column diameter: 0.18

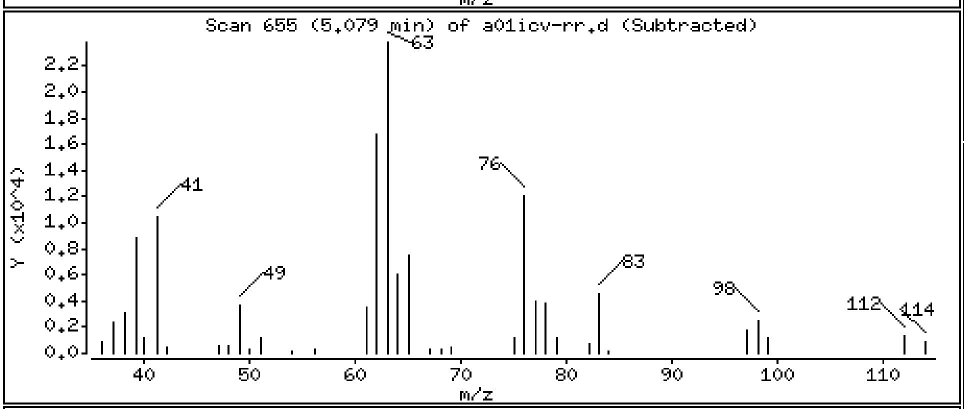
50 1,2-Dichloropropane

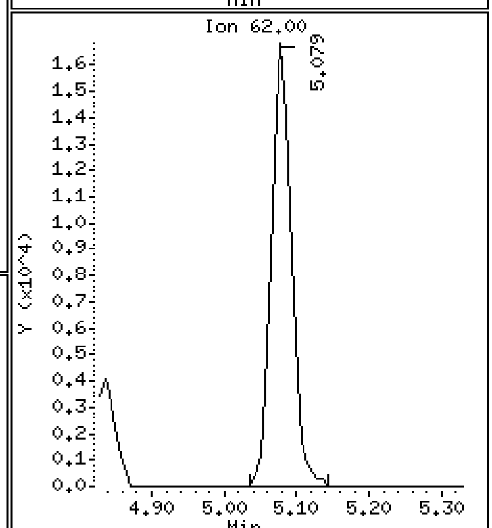
Concentration: 51.9 ppb

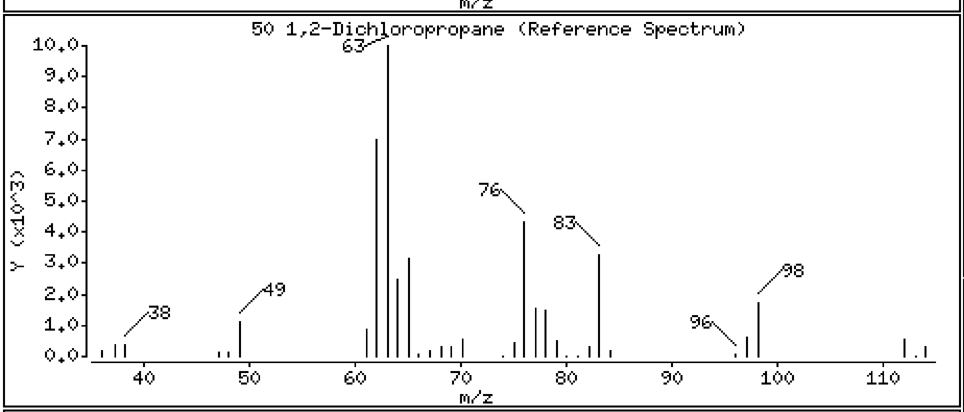
Review Code:

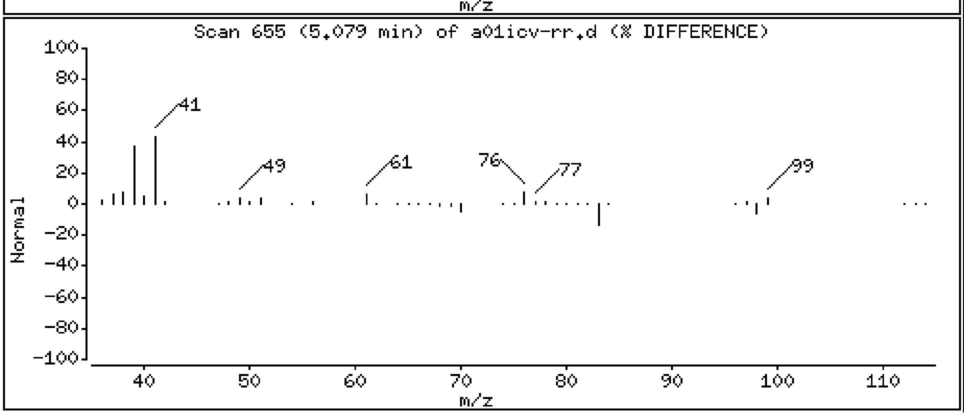


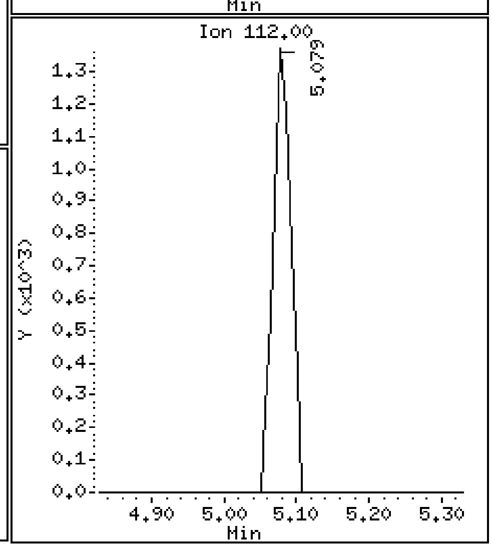












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Date : 26-JAN-2023 09:06

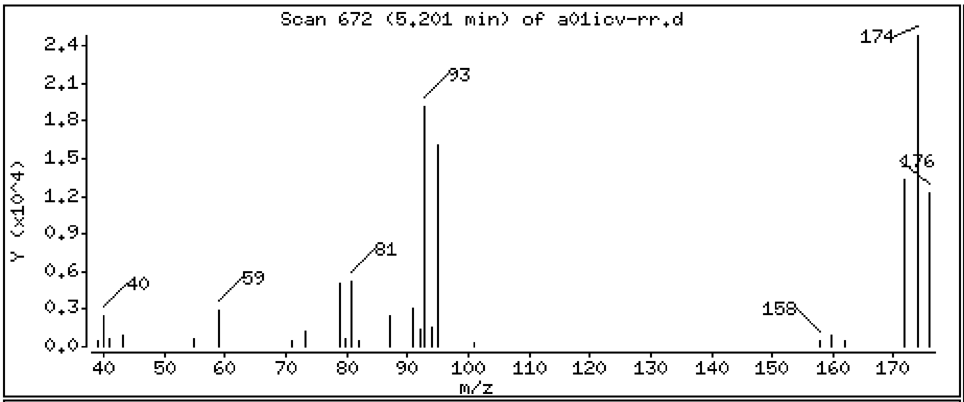
Client ID: Instrument: 50mv2a.i

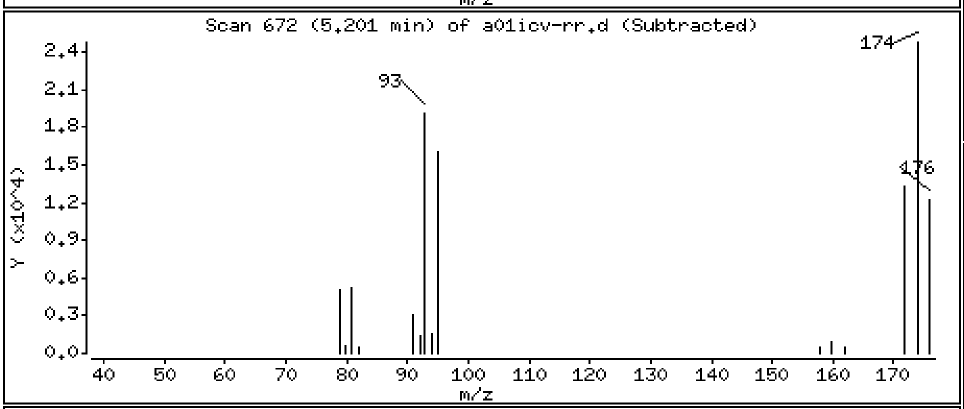
Sample Info: 8260-ICV,336828

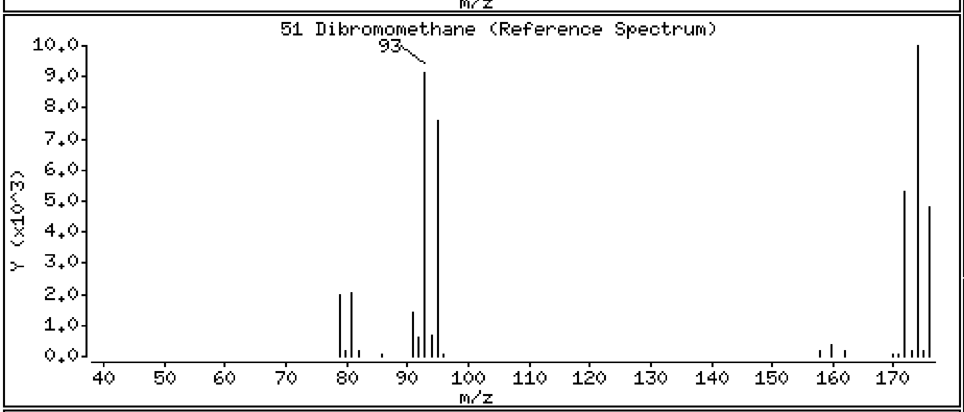
Purge Volume: 5.0 Operator: tkg

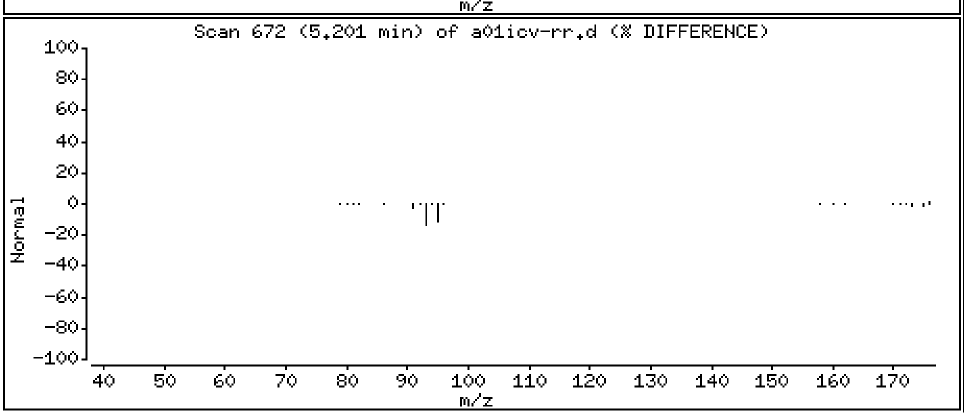
Column phase: DB-624 Column diameter: 0.18

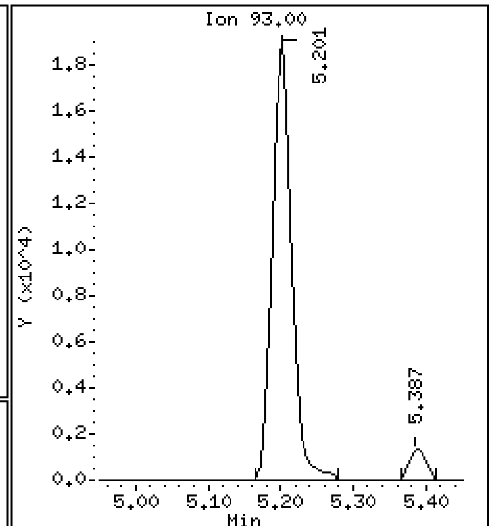
51 Dibromomethane Concentration: 54.4 ppb Review Code:

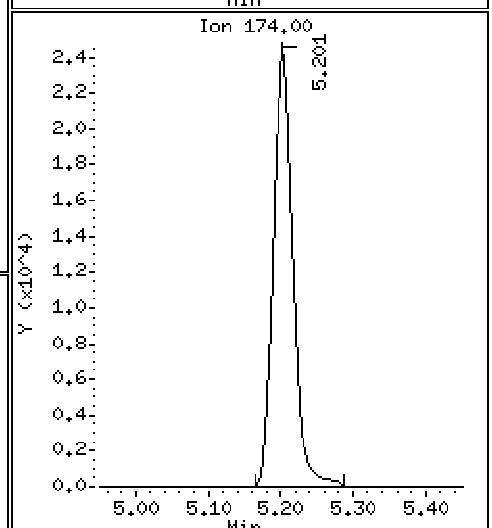


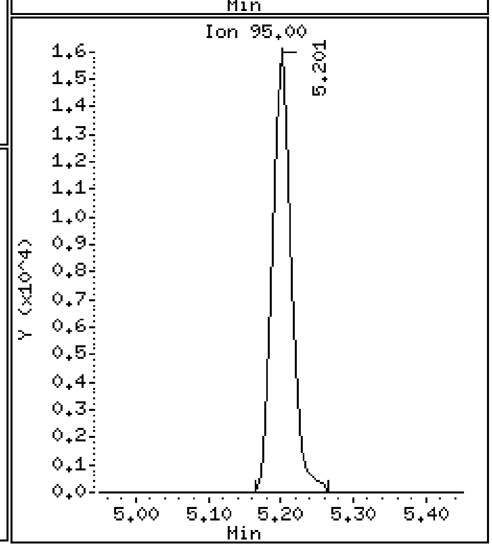












Date : 26-JAN-2023 09:06

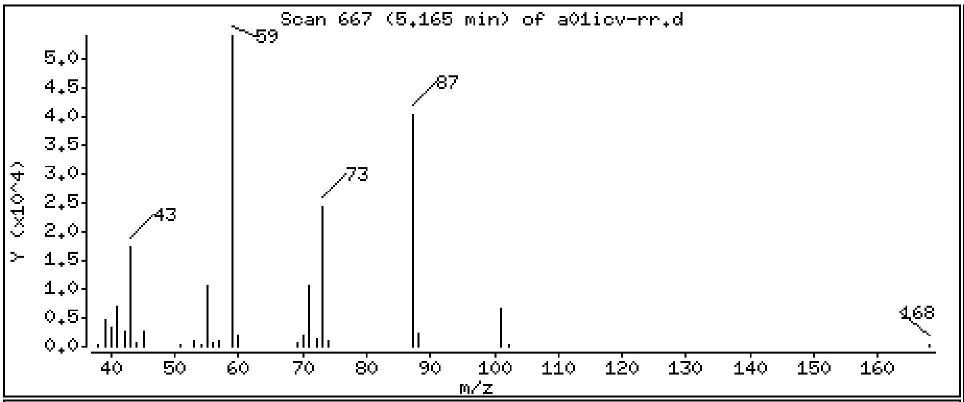
Client ID: Instrument: 50mv2a.i

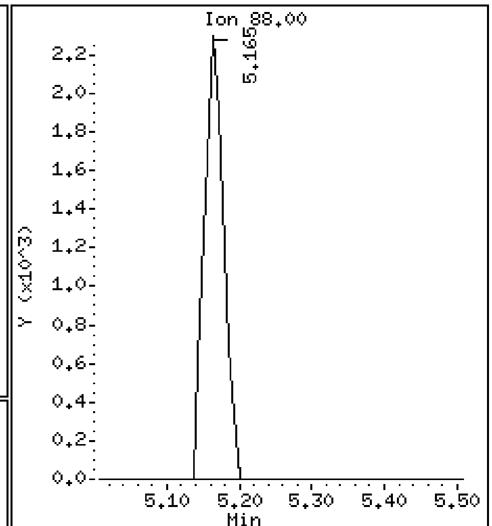
Sample Info: 8260-ICV,336828

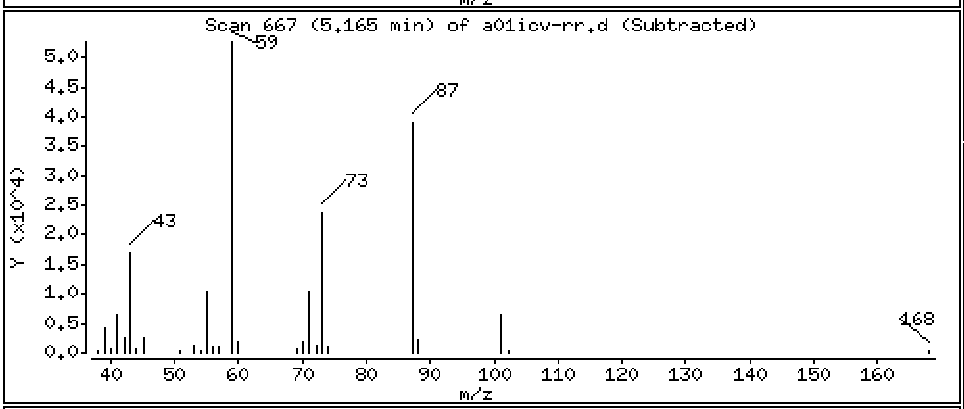
Purge Volume: 5.0 Operator: tkg

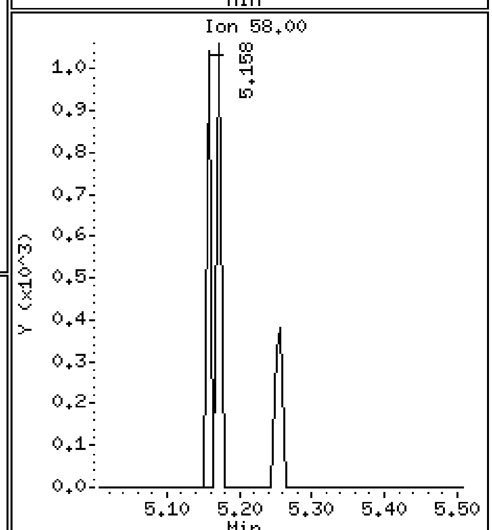
Column phase: DB-624 Column diameter: 0.18

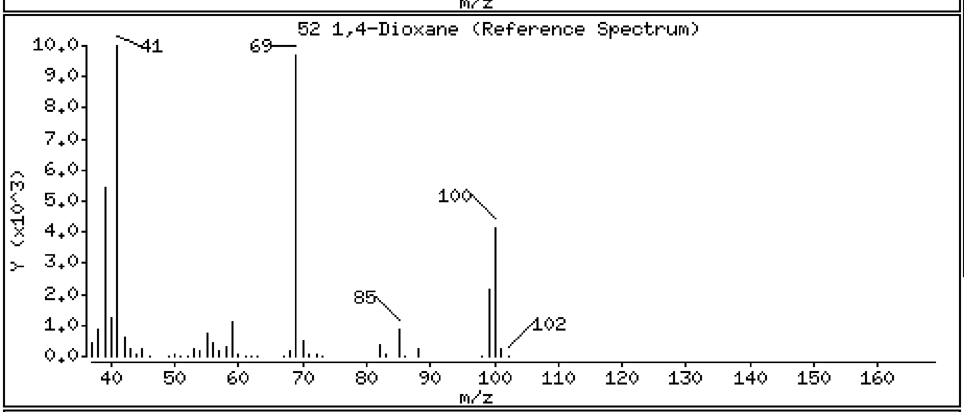
52 1,4-Dioxane Concentration: 1270 ppb Review Code:

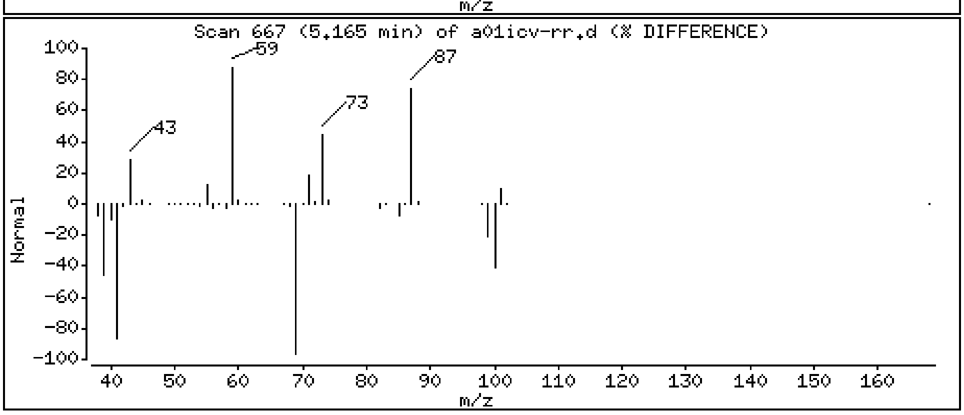












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

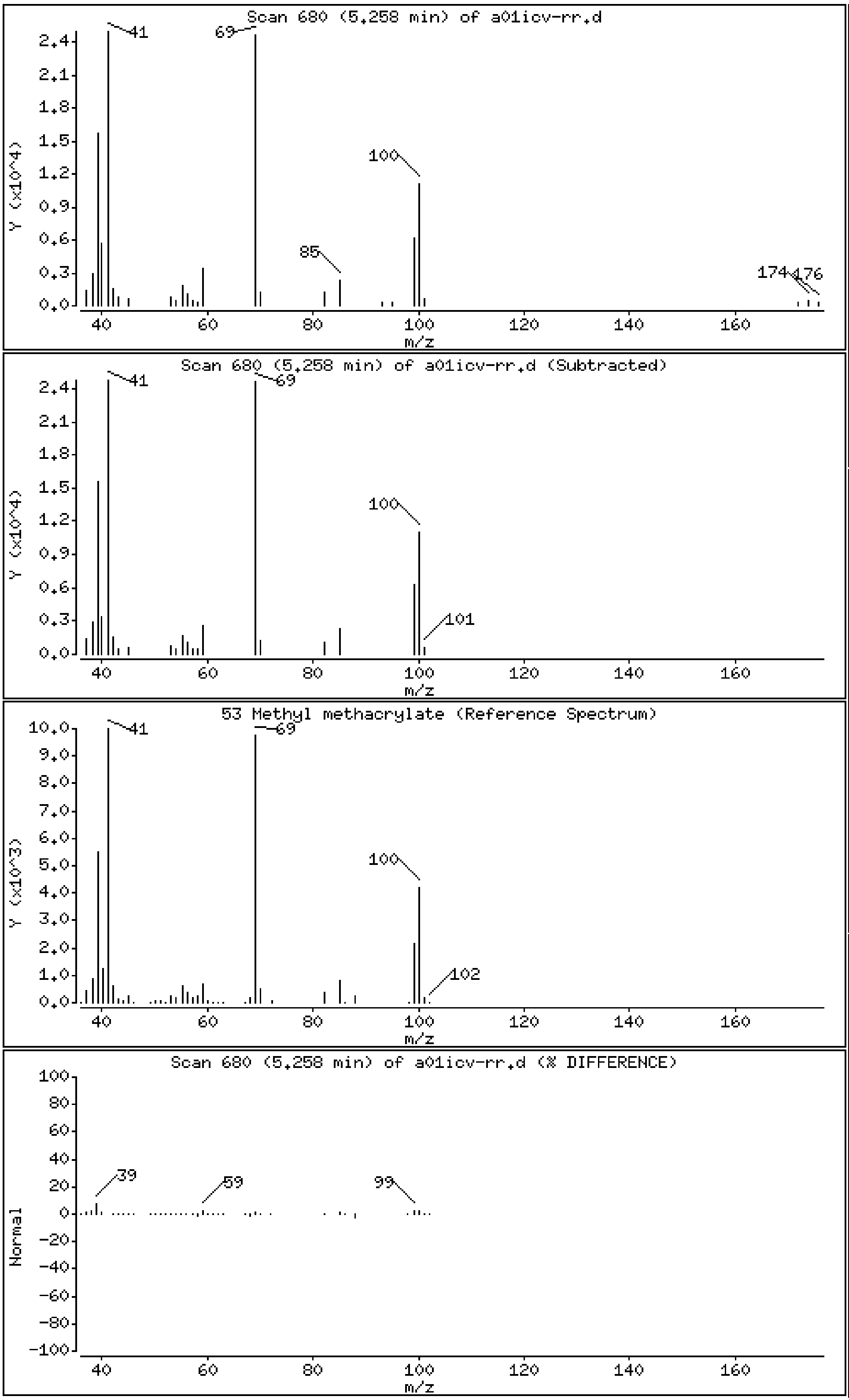
Column phase: DB-624

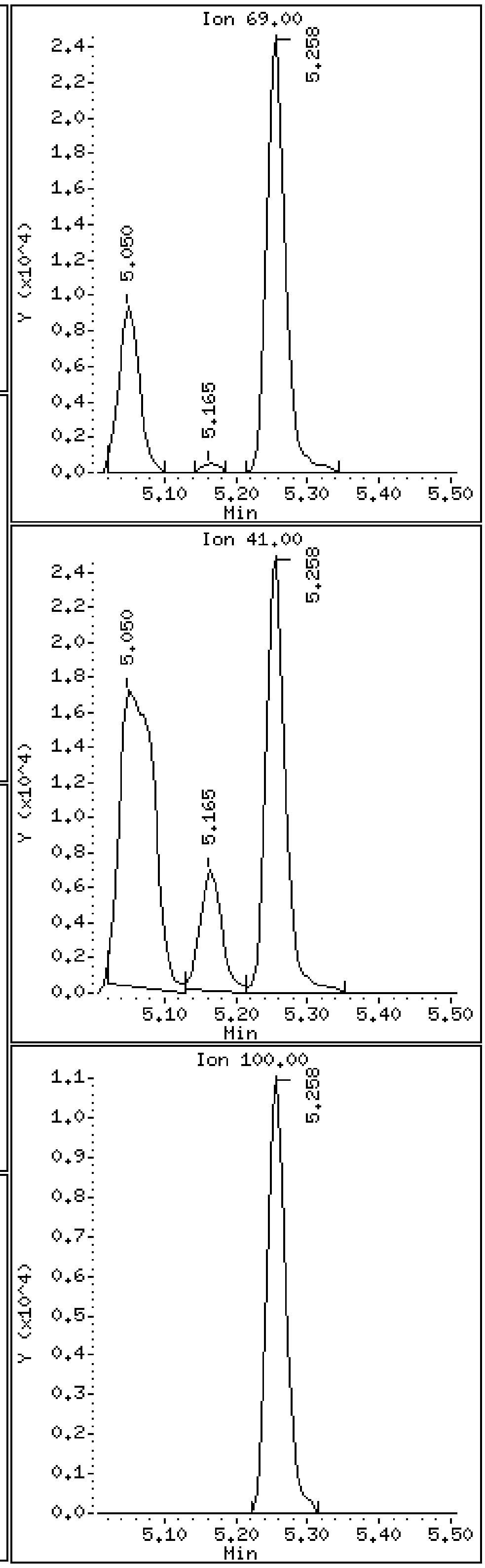
Column diameter: 0.18

53 Methyl methacrylate

Concentration: 55.4 ppb

Review Code:





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Date : 26-JAN-2023 09:06

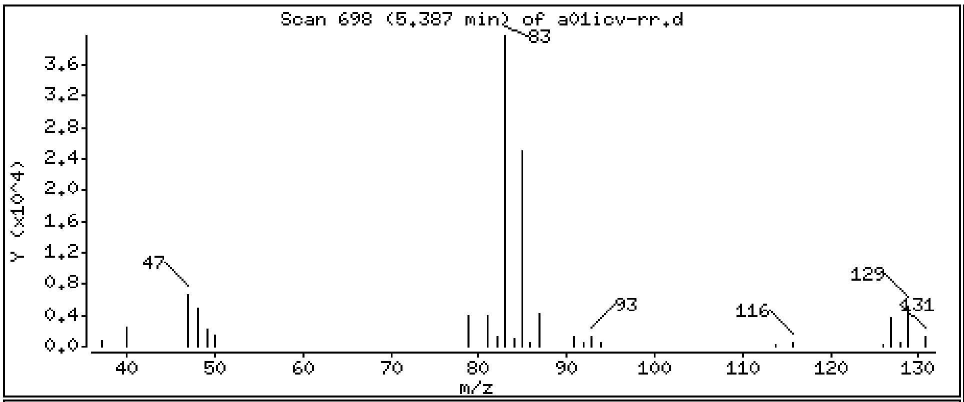
Client ID: Instrument: 50mv2a.i

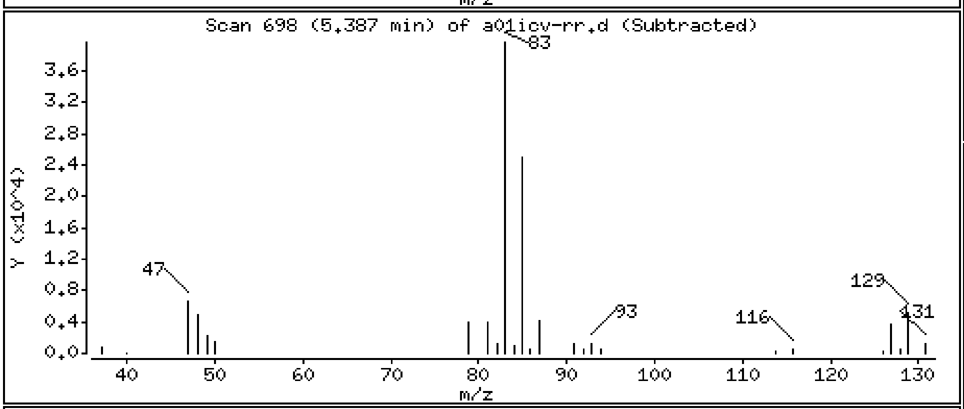
Sample Info: 8260-ICV,336828

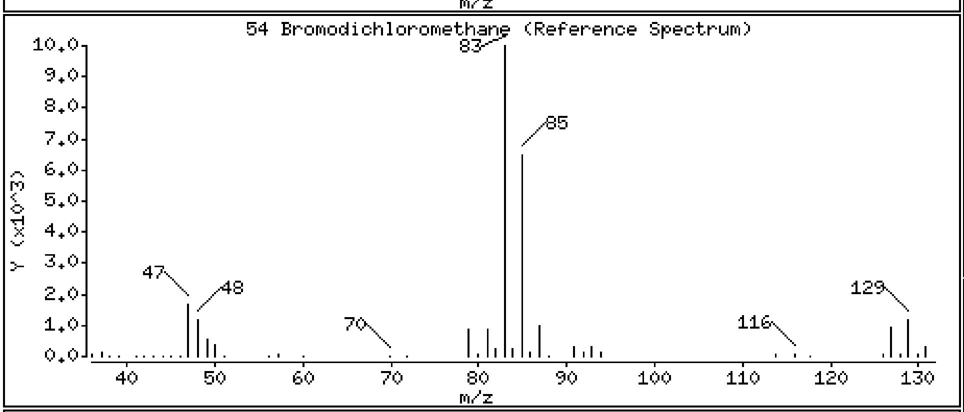
Purge Volume: 5.0 Operator: tkg

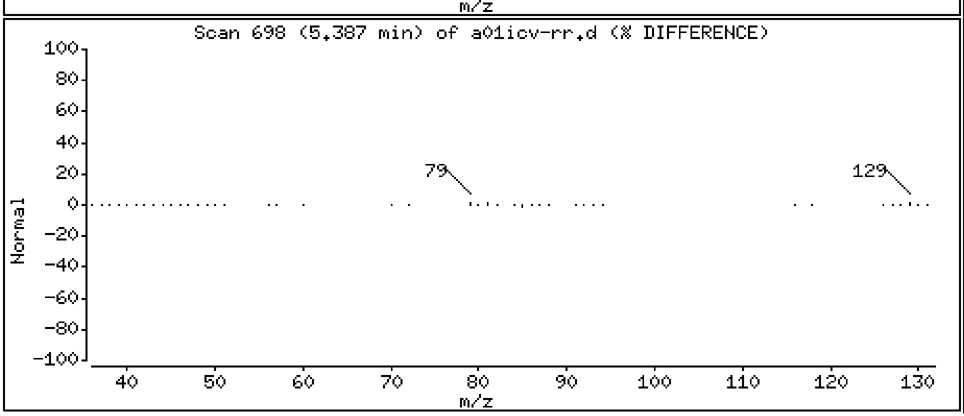
Column phase: DB-624 Column diameter: 0.18

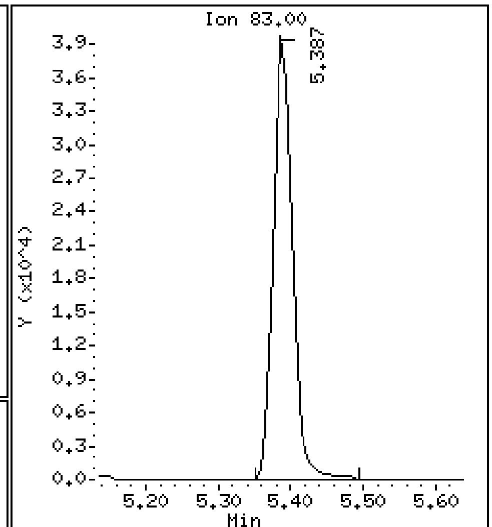
54 Bromodichloromethane Concentration: 56.6 ppb Review Code:

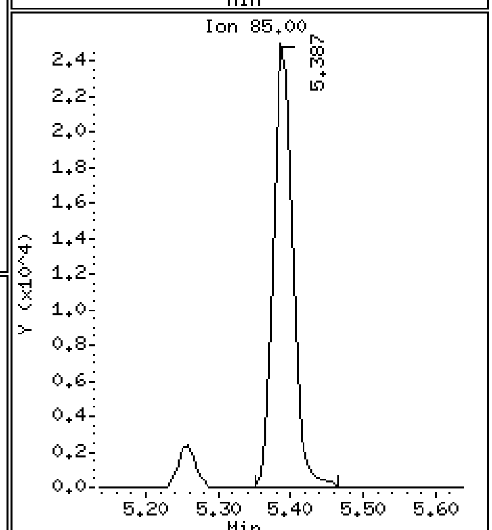


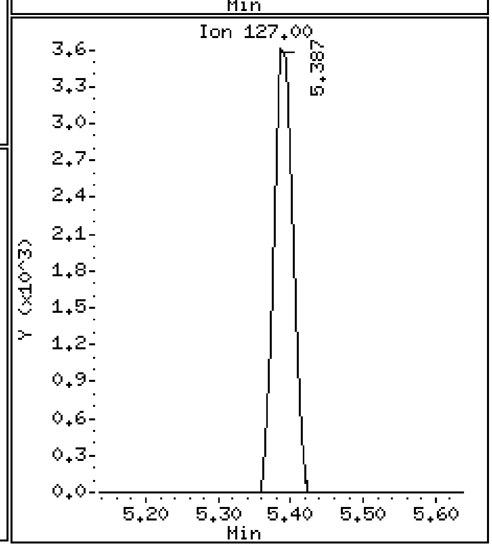












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

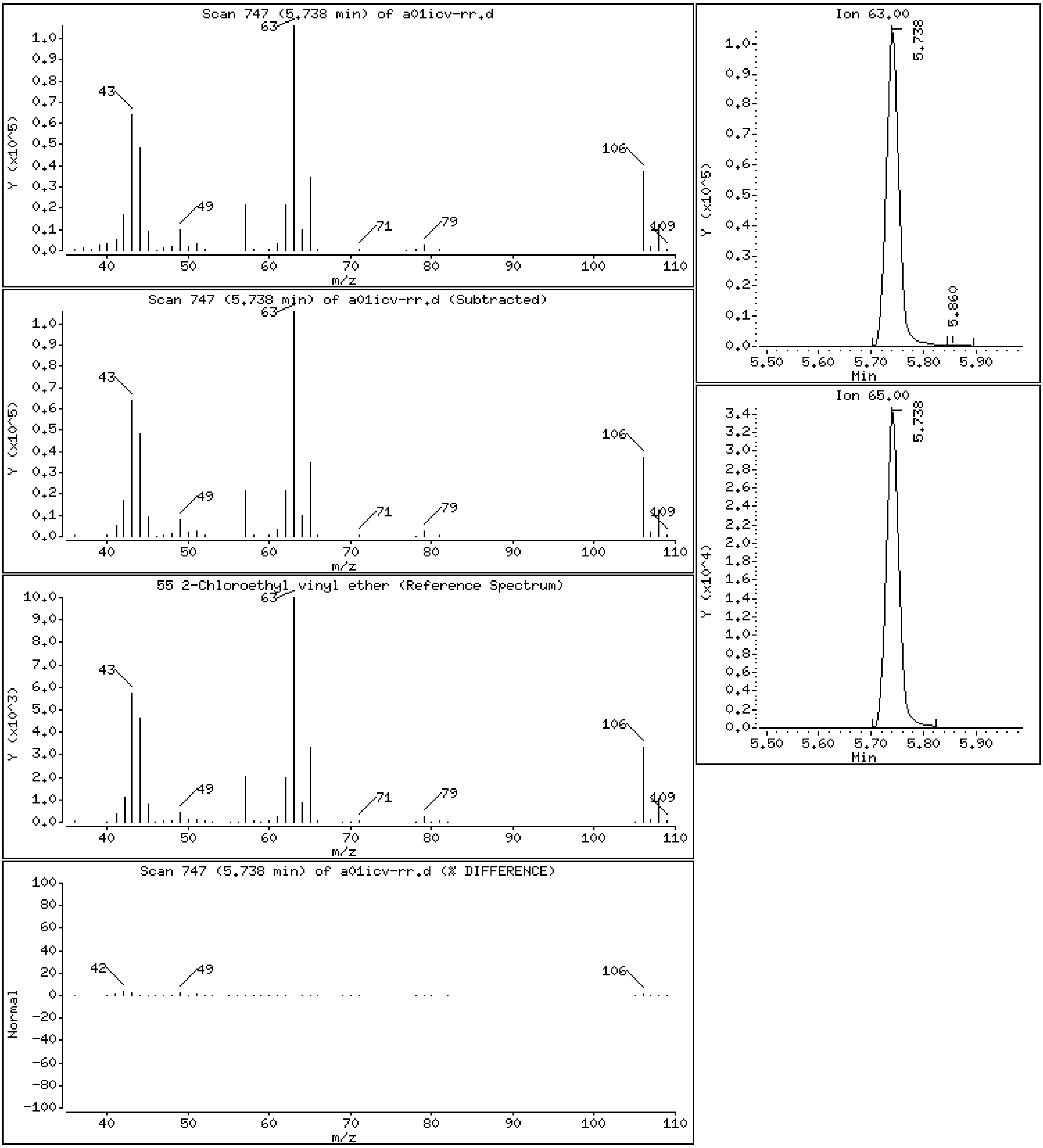
Column phase: DB-624

Column diameter: 0.18

55 2-Chloroethyl vinyl ether

Concentration: 263 ppb

Review Code:



Date : 26-JAN-2023 09:06

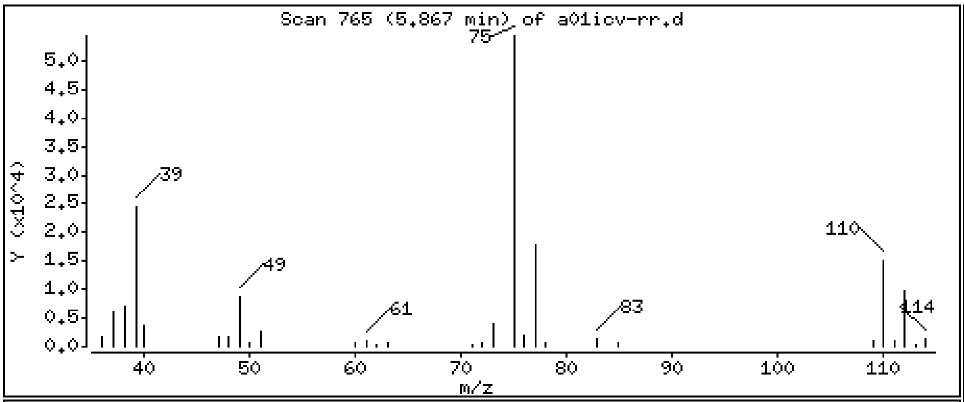
Client ID: Instrument: 50mv2a.i

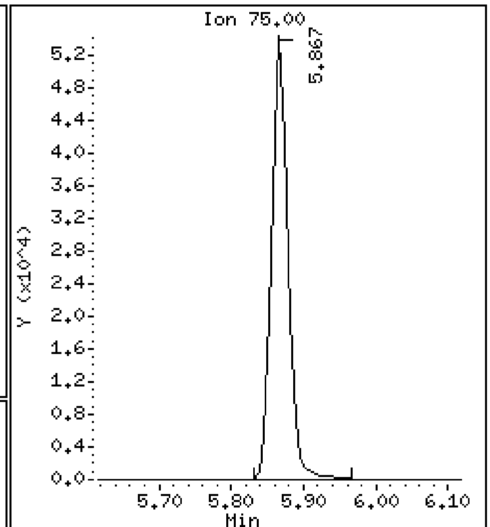
Sample Info: 8260-ICV,336828

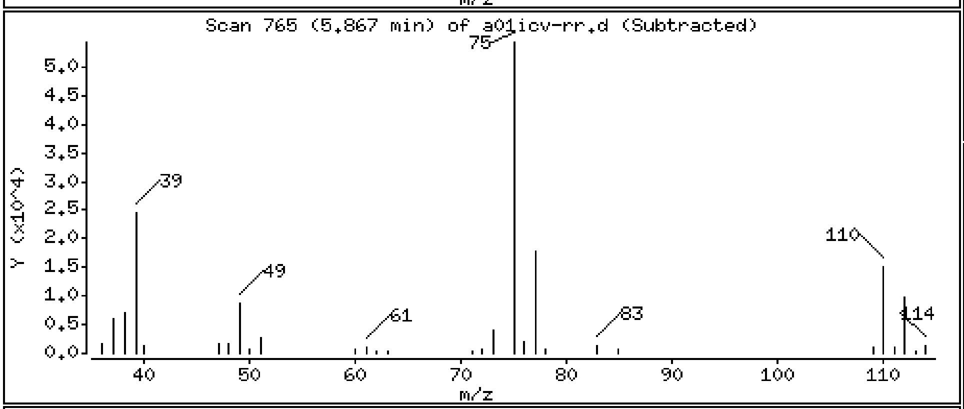
Purge Volume: 5.0 Operator: tkg

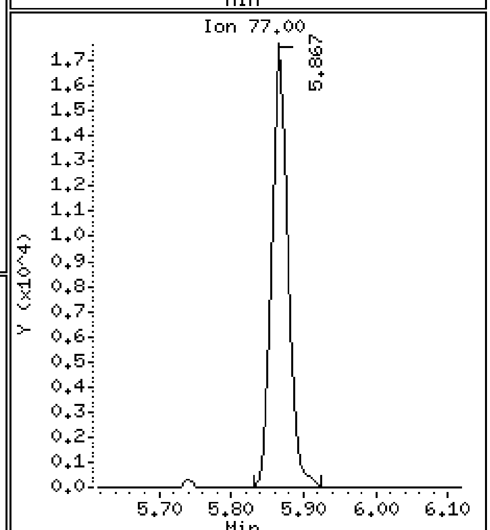
Column phase: DB-624 Column diameter: 0.18

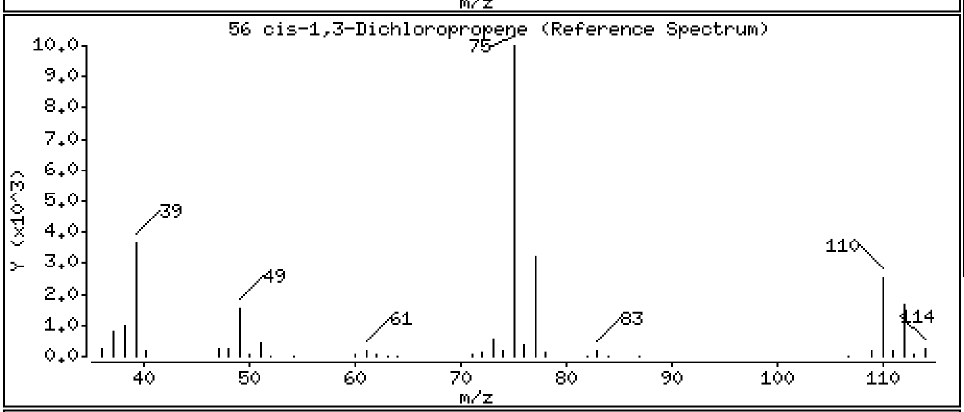
56 cis-1,3-Dichloropropene Concentration: 55.5 ppb Review Code:

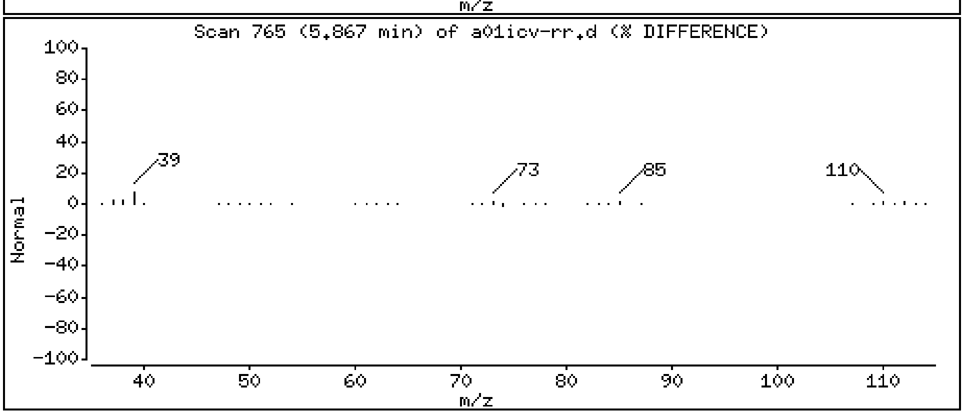












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

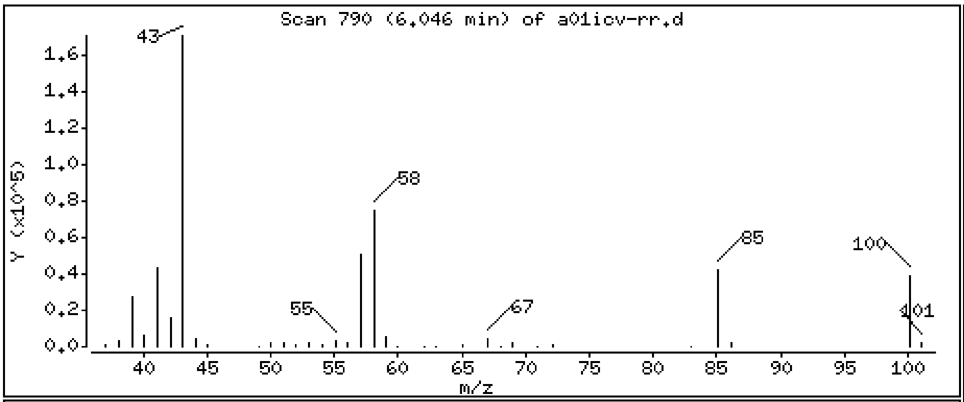
Column phase: DB-624

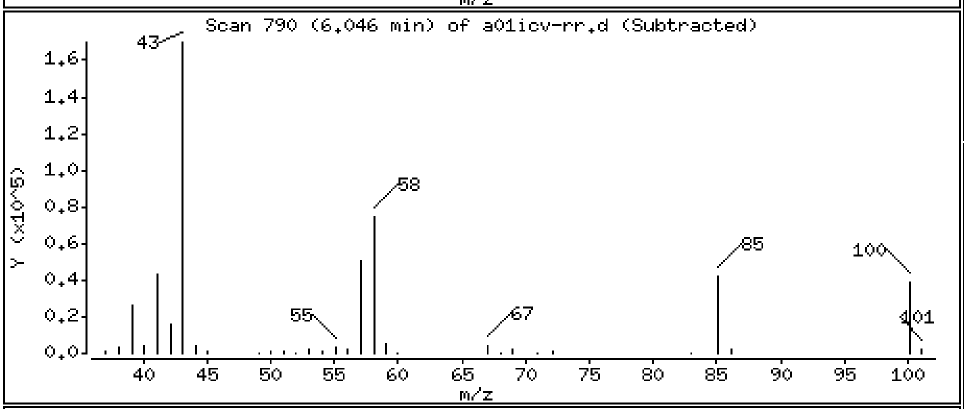
Column diameter: 0.18

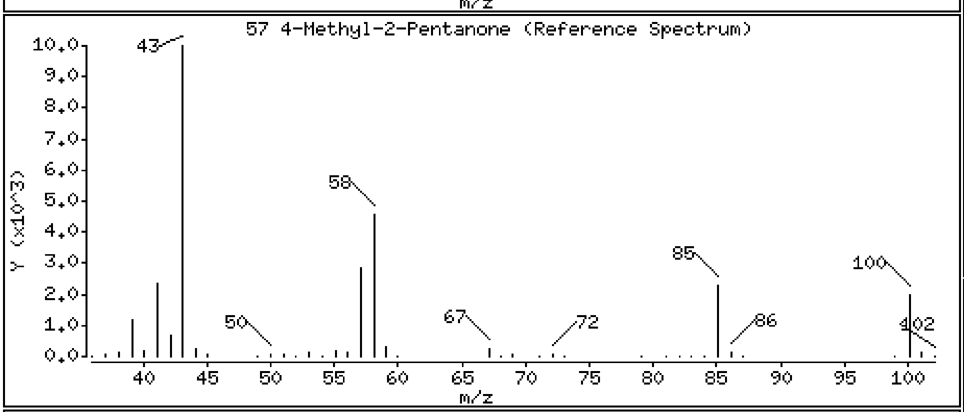
57 4-Methyl-2-Pentanone

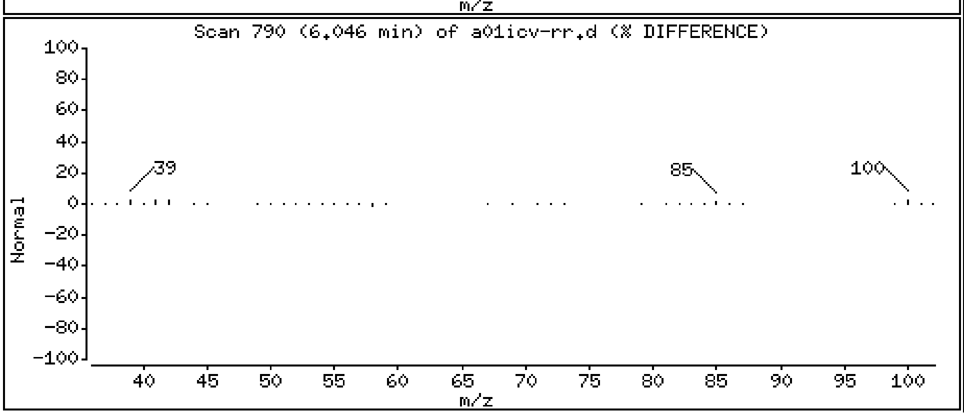
Concentration: 250 ppb

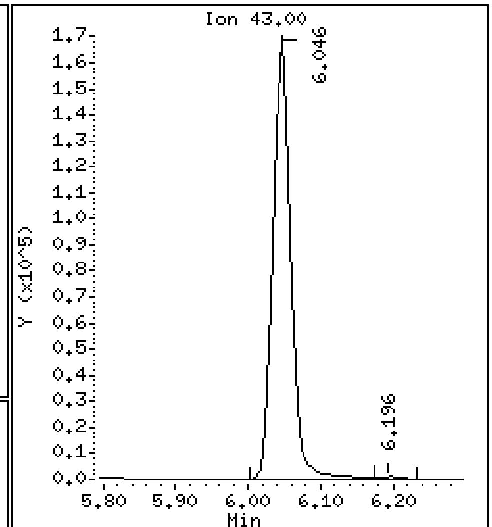
Review Code:

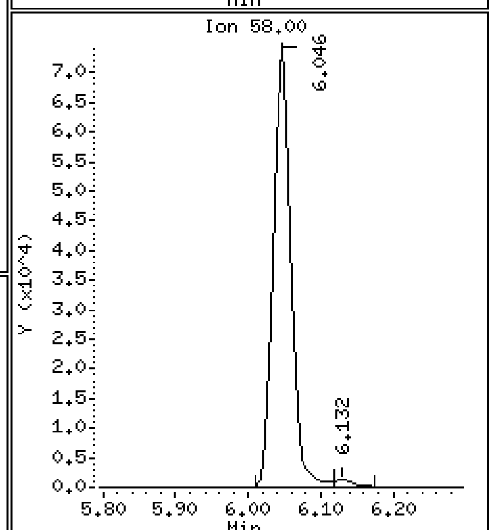


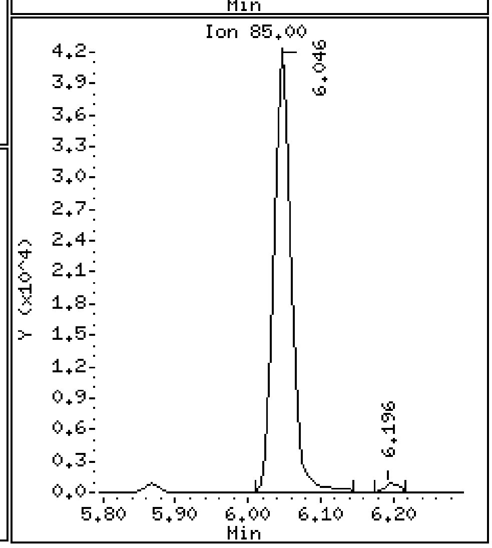












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

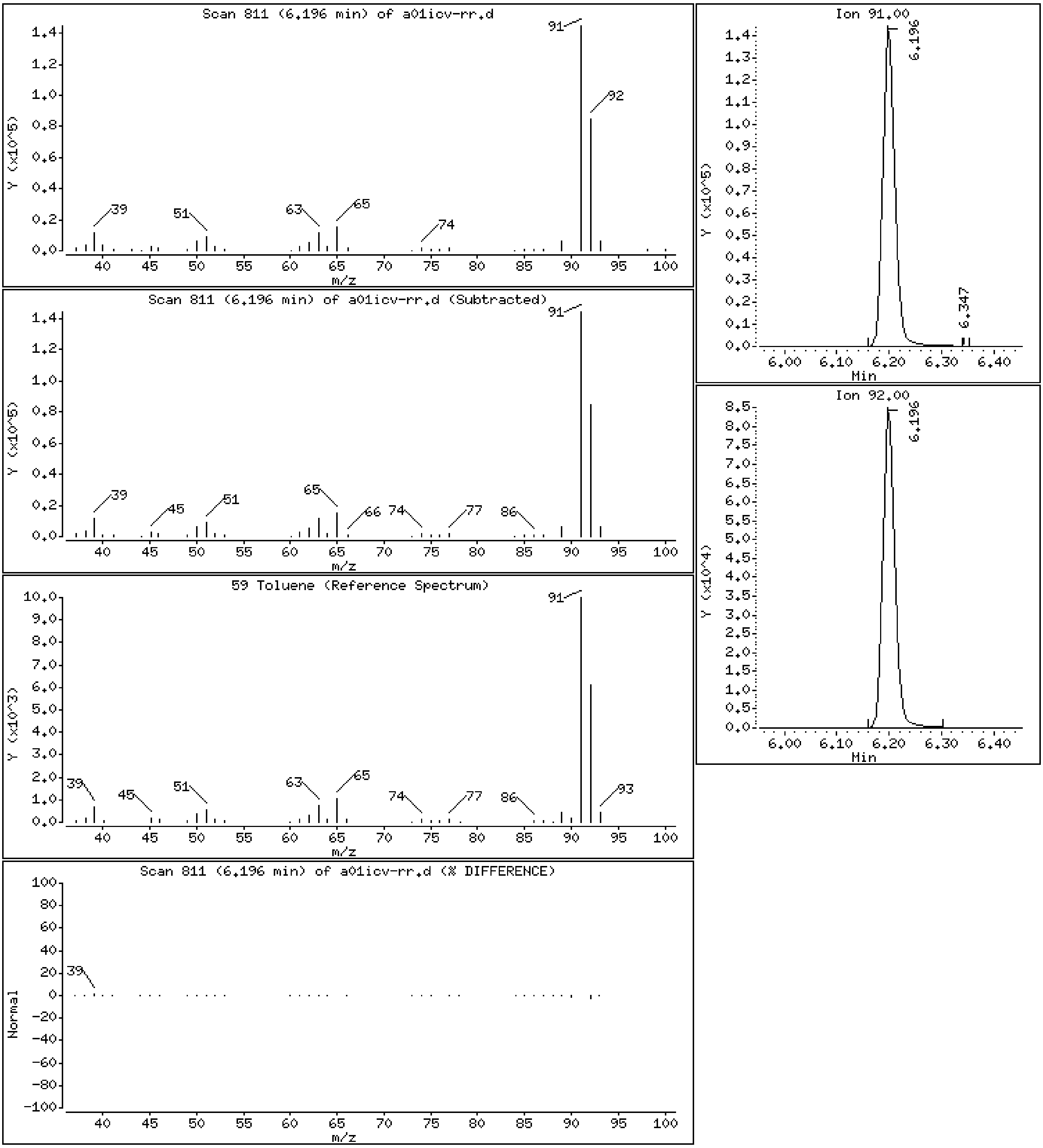
Column phase: DB-624

Column diameter: 0.18

59 Toluene

Concentration: 49.6 ppb

Review Code:



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Date : 26-JAN-2023 09:06

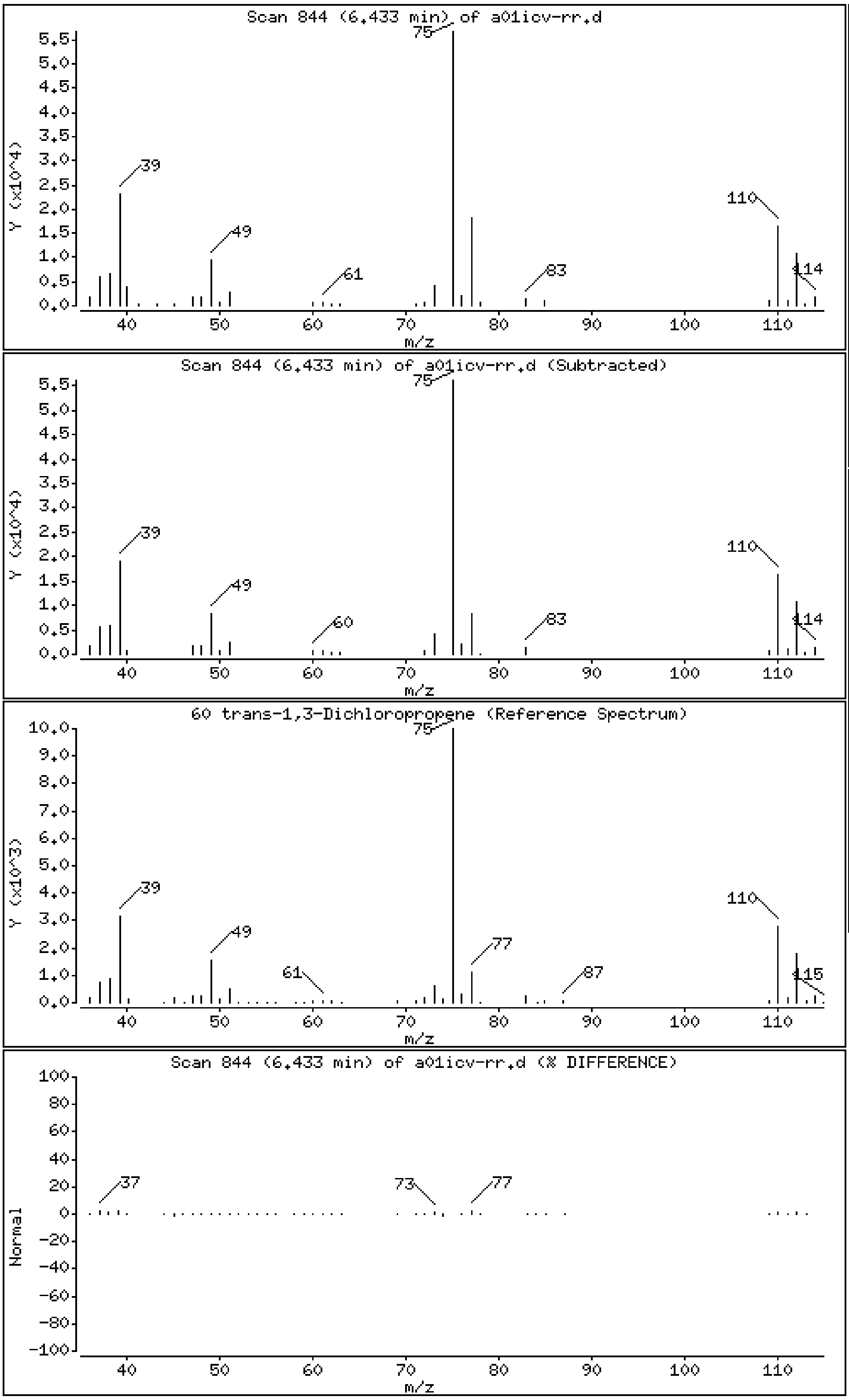
Client ID: Instrument: 50mv2a.i

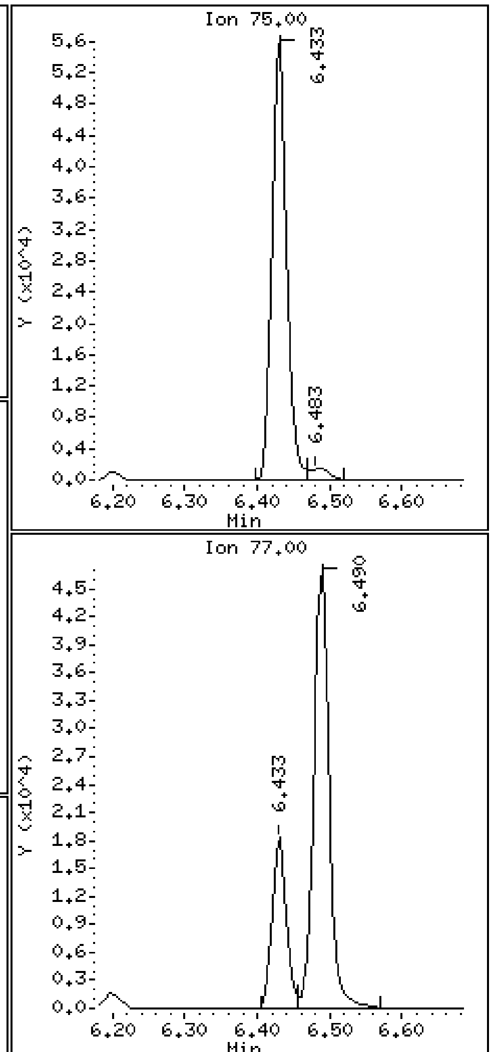
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

60 trans-1,3-Dichloropropene Concentration: 54.8 ppb Review Code:





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Date : 26-JAN-2023 09:06

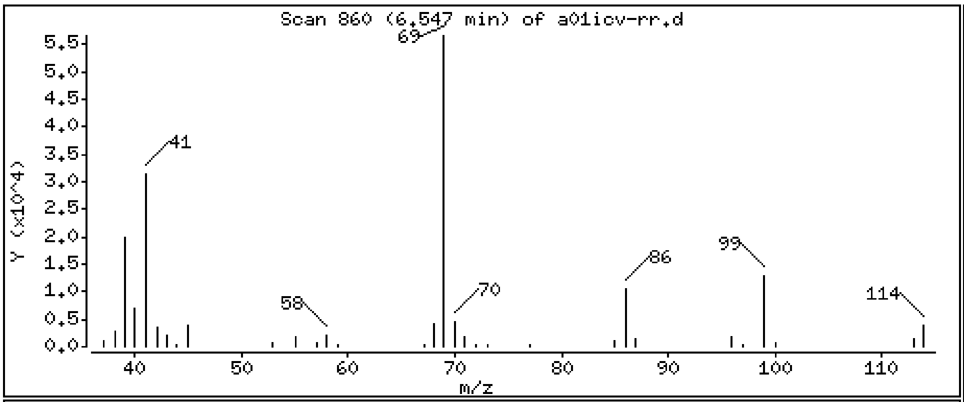
Client ID: Instrument: 50mv2a.i

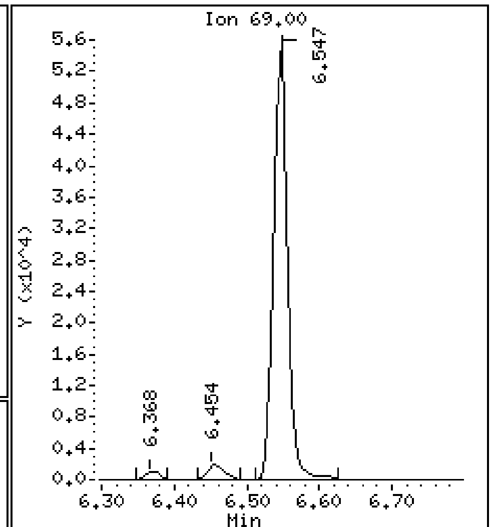
Sample Info: 8260-ICV,336828

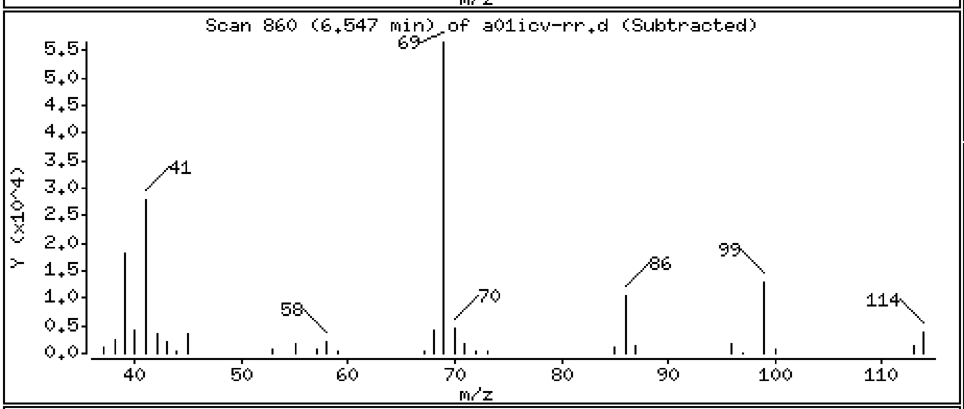
Purge Volume: 5.0 Operator: tkg

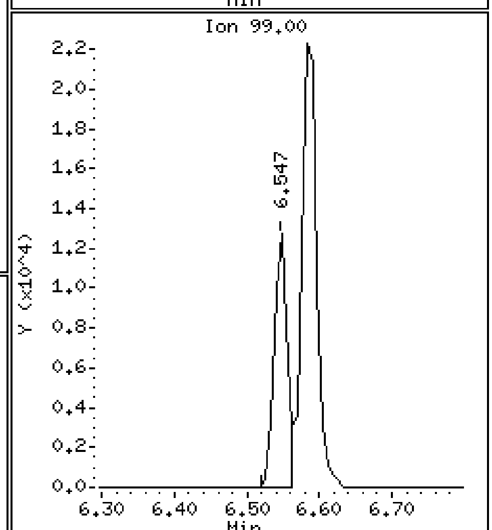
Column phase: DB-624 Column diameter: 0.18

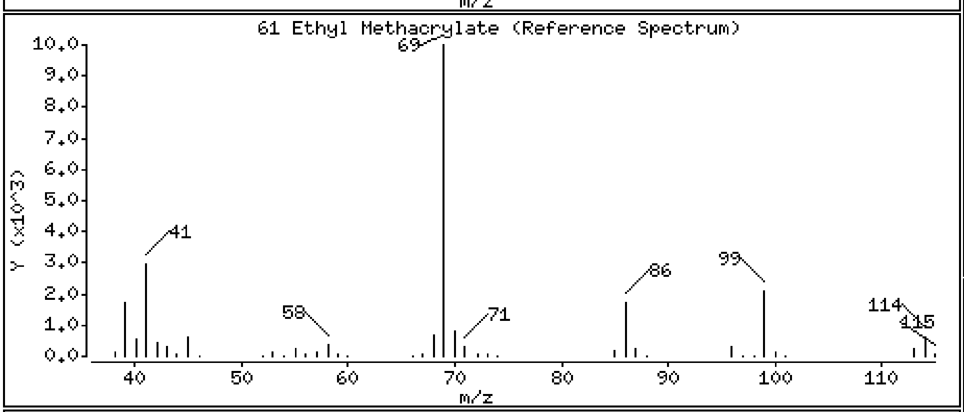
61 Ethyl Methacrylate Concentration: 53.0 ppb Review Code:

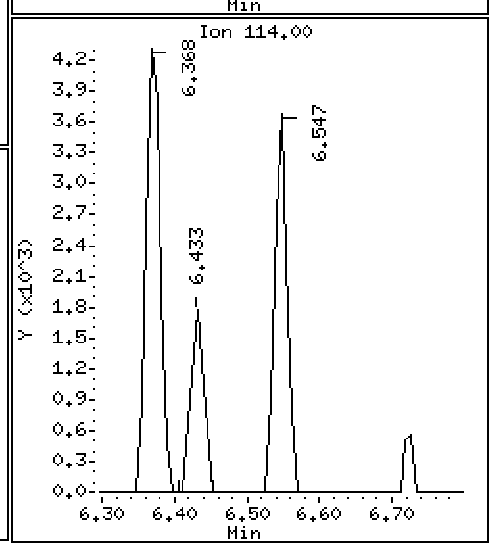


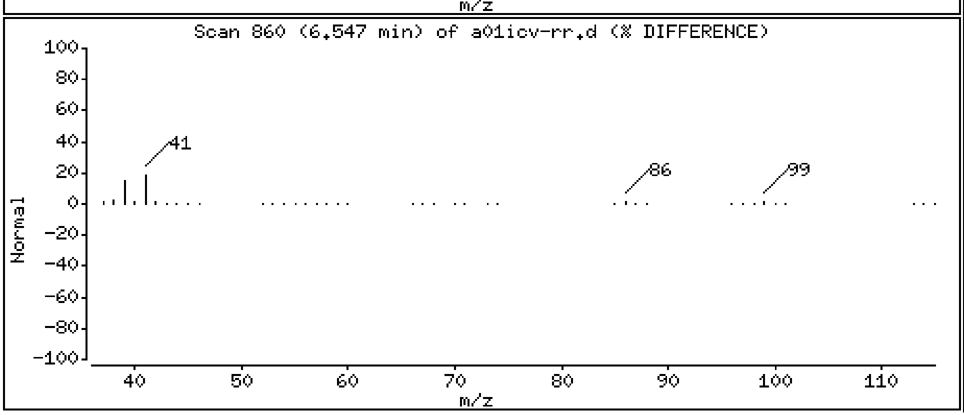












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Date : 26-JAN-2023 09:06

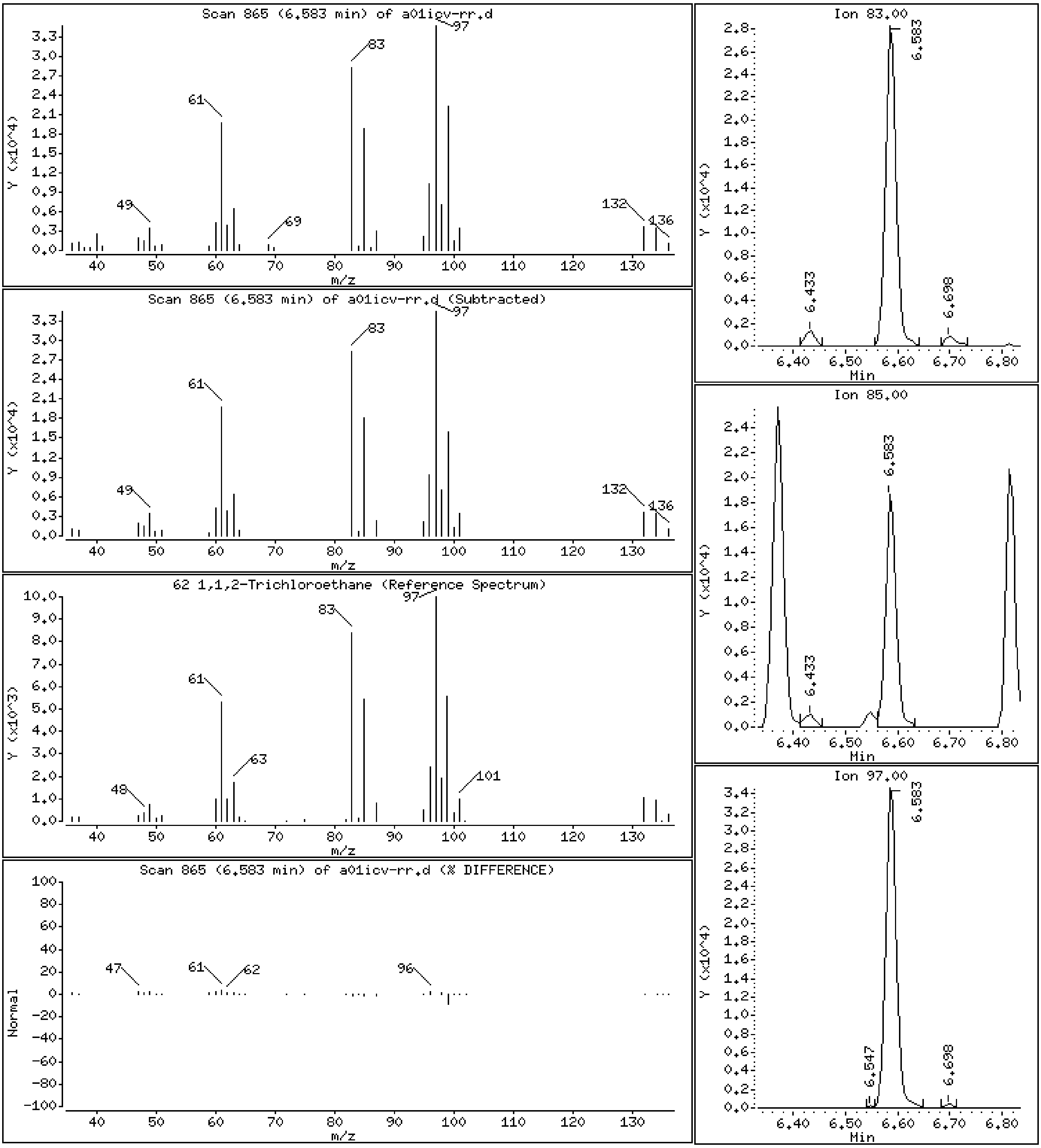
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

62 1,1,2-Trichloroethane Concentration: 52.6 ppb Review Code:



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Date : 26-JAN-2023 09:06

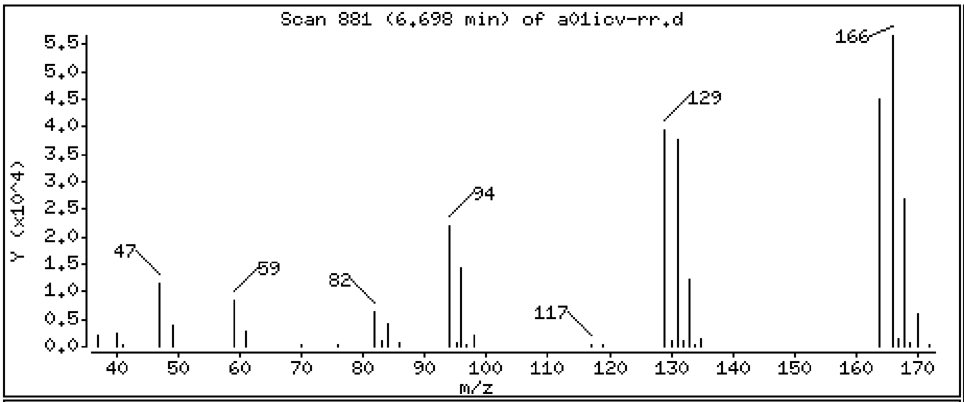
Client ID: Instrument: 50mv2a.i

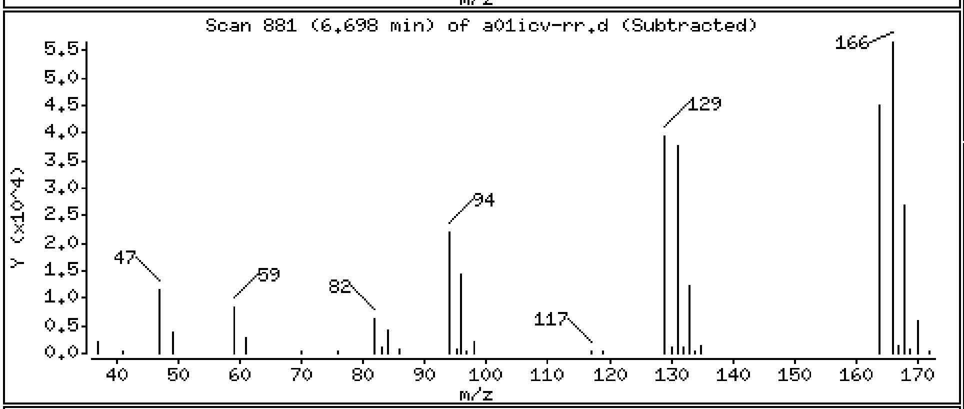
Sample Info: 8260-ICV,336828

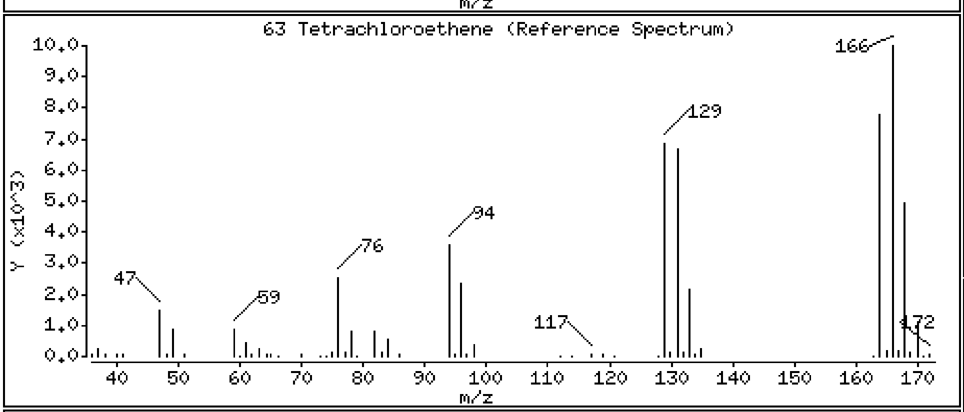
Purge Volume: 5.0 Operator: tkg

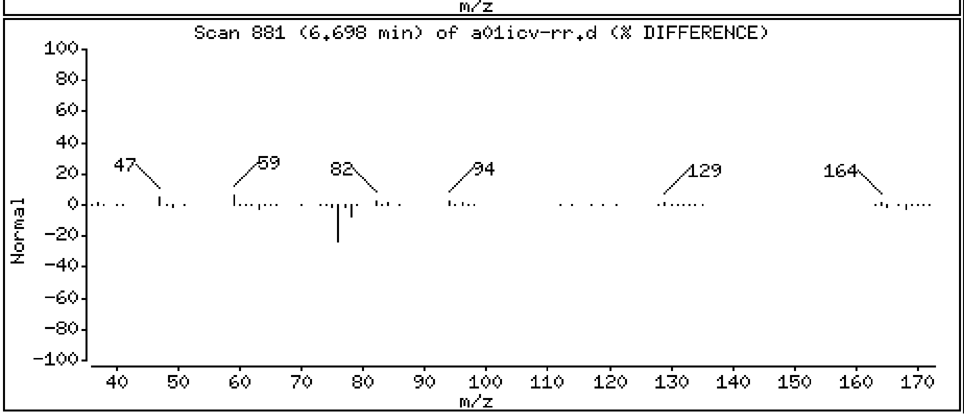
Column phase: DB-624 Column diameter: 0.18

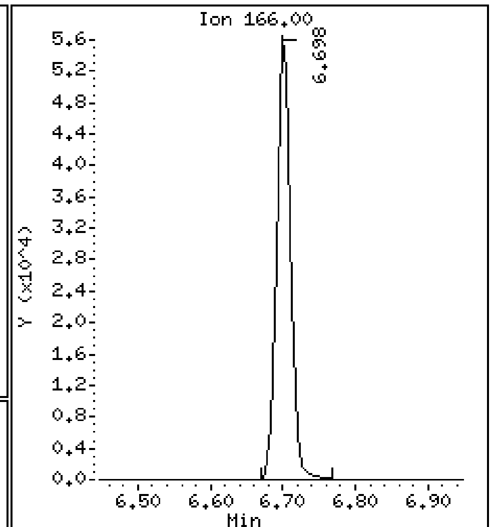
63 Tetrachloroethene Concentration: 53.0 ppb Review Code:

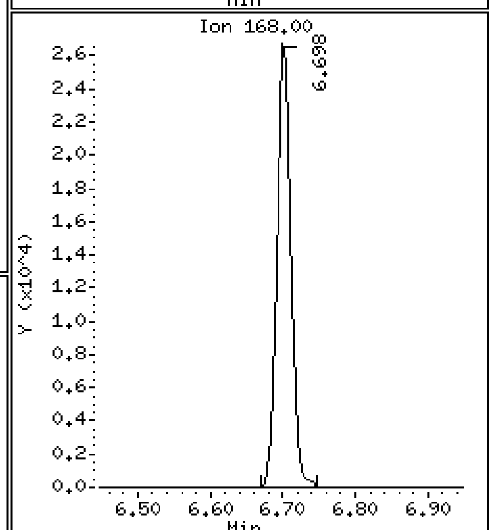


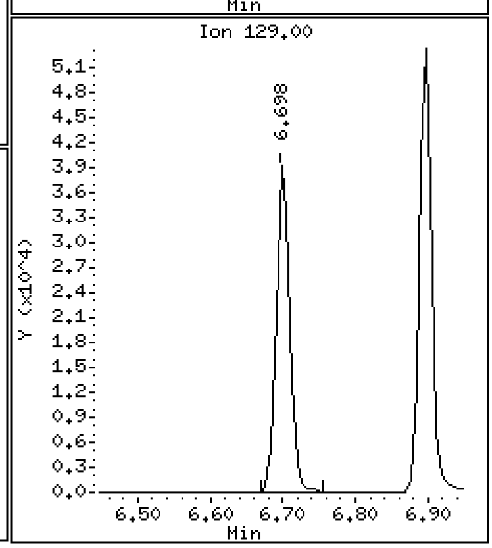












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

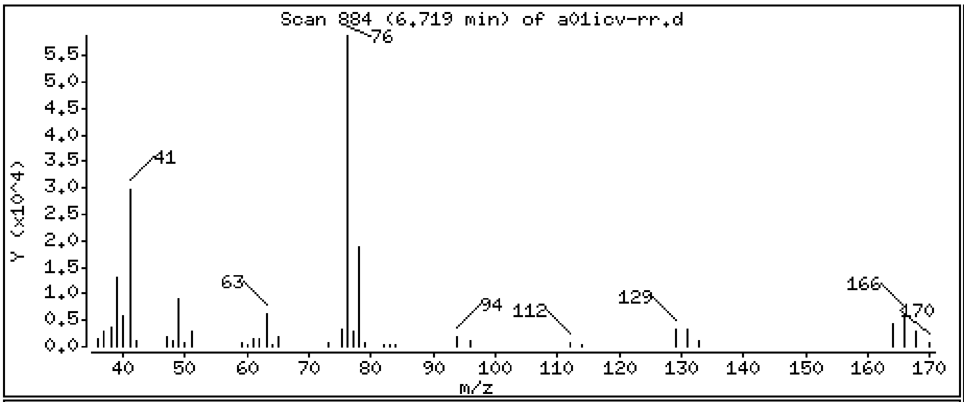
Column phase: DB-624

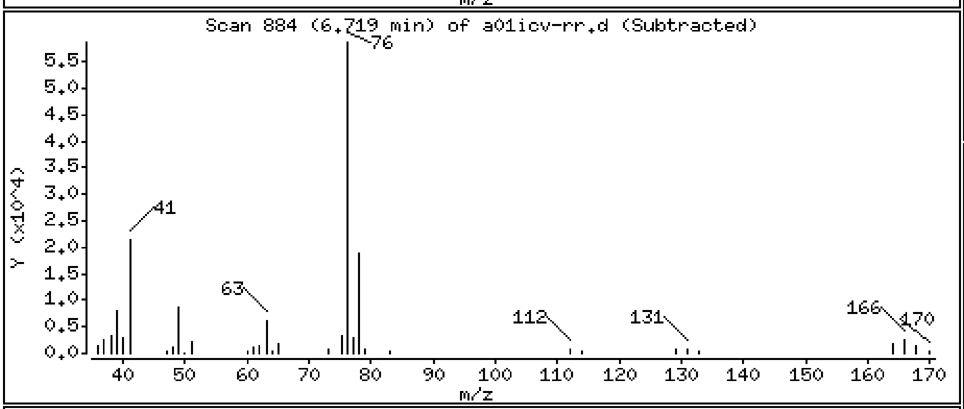
Column diameter: 0.18

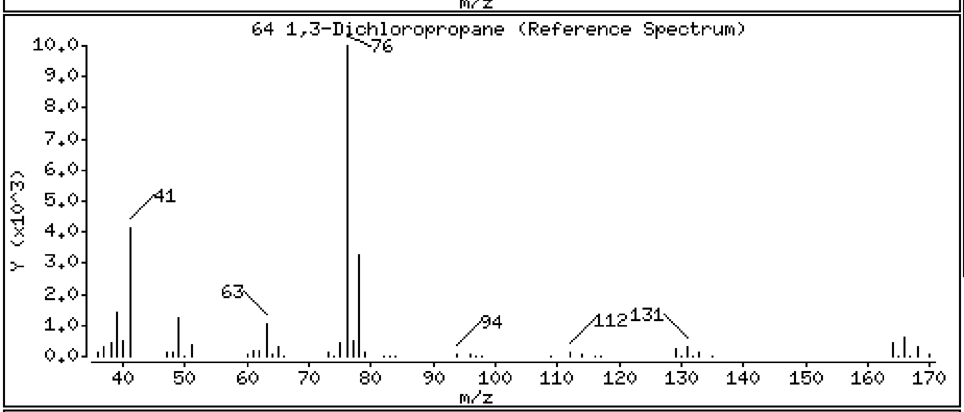
64 1,3-Dichloropropane

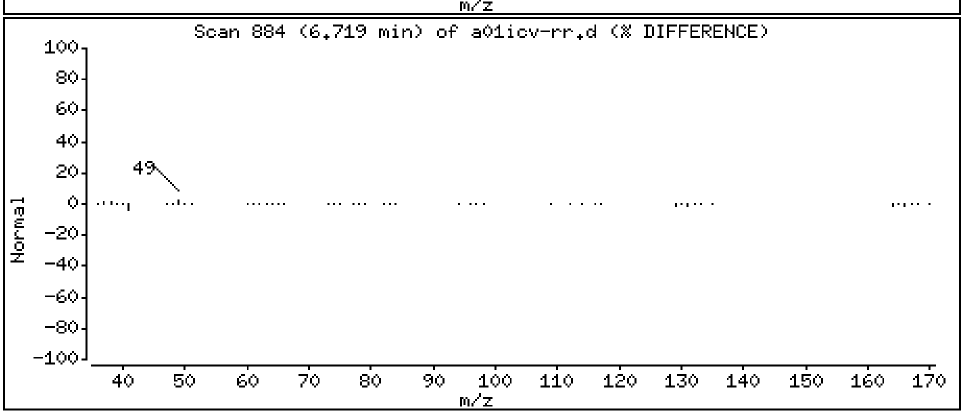
Concentration: 50.9 ppb

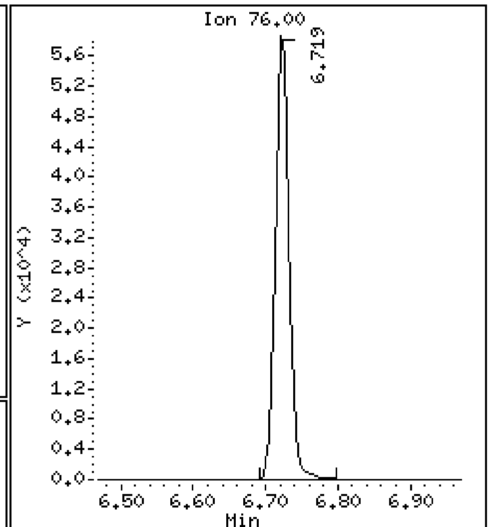
Review Code:

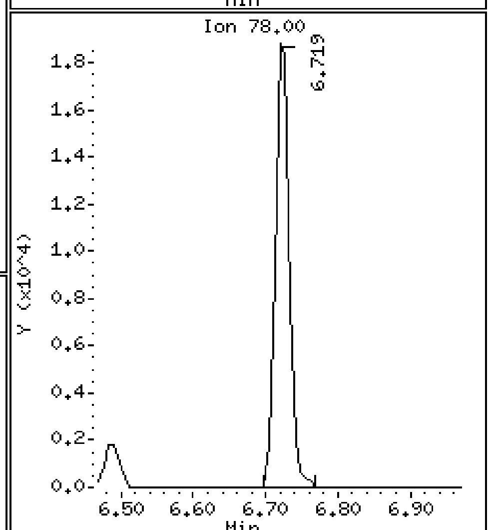












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

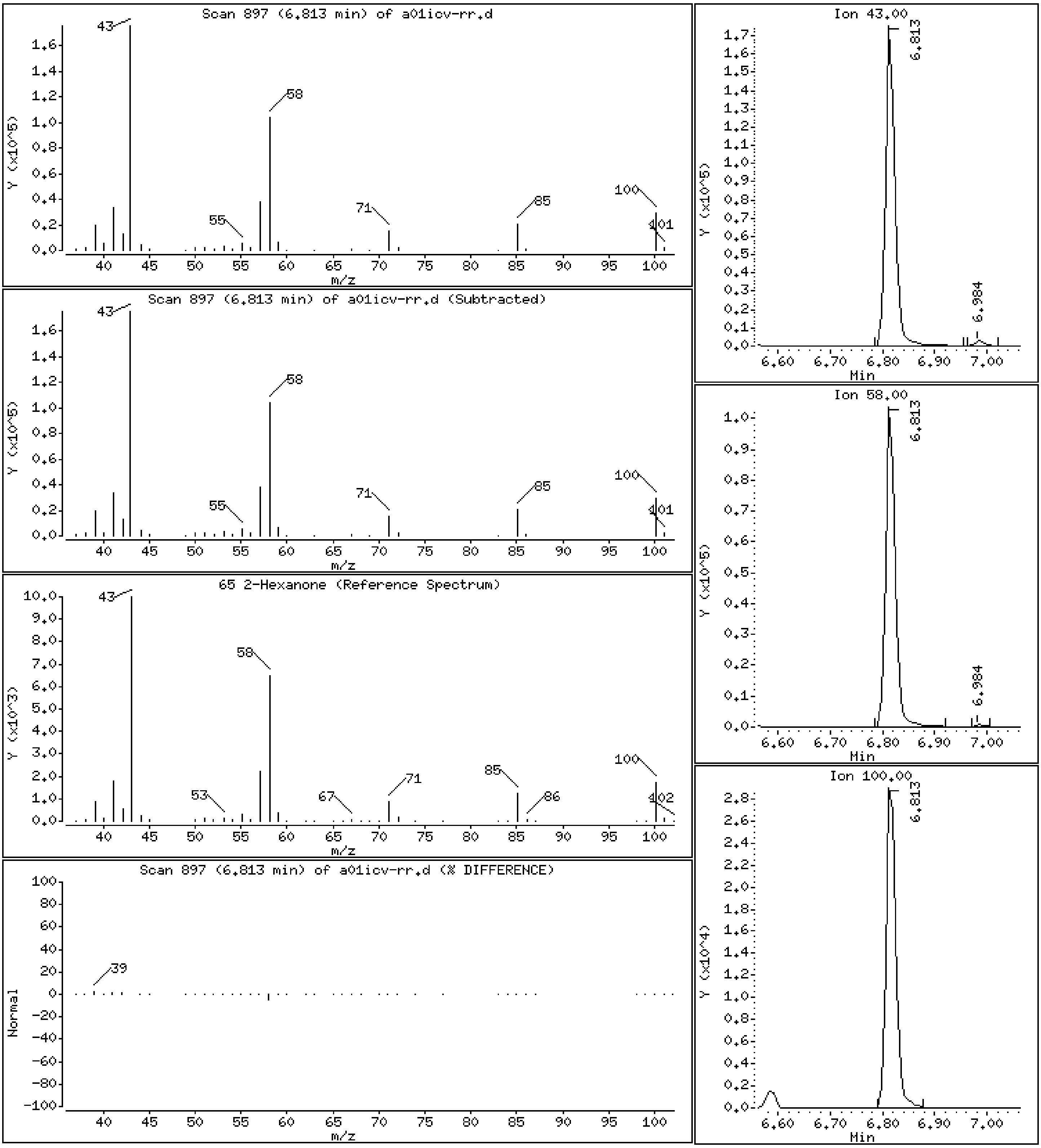
Column phase: DB-624

Column diameter: 0.18

65 2-Hexanone

Concentration: 261 ppb

Review Code:



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Date : 26-JAN-2023 09:06

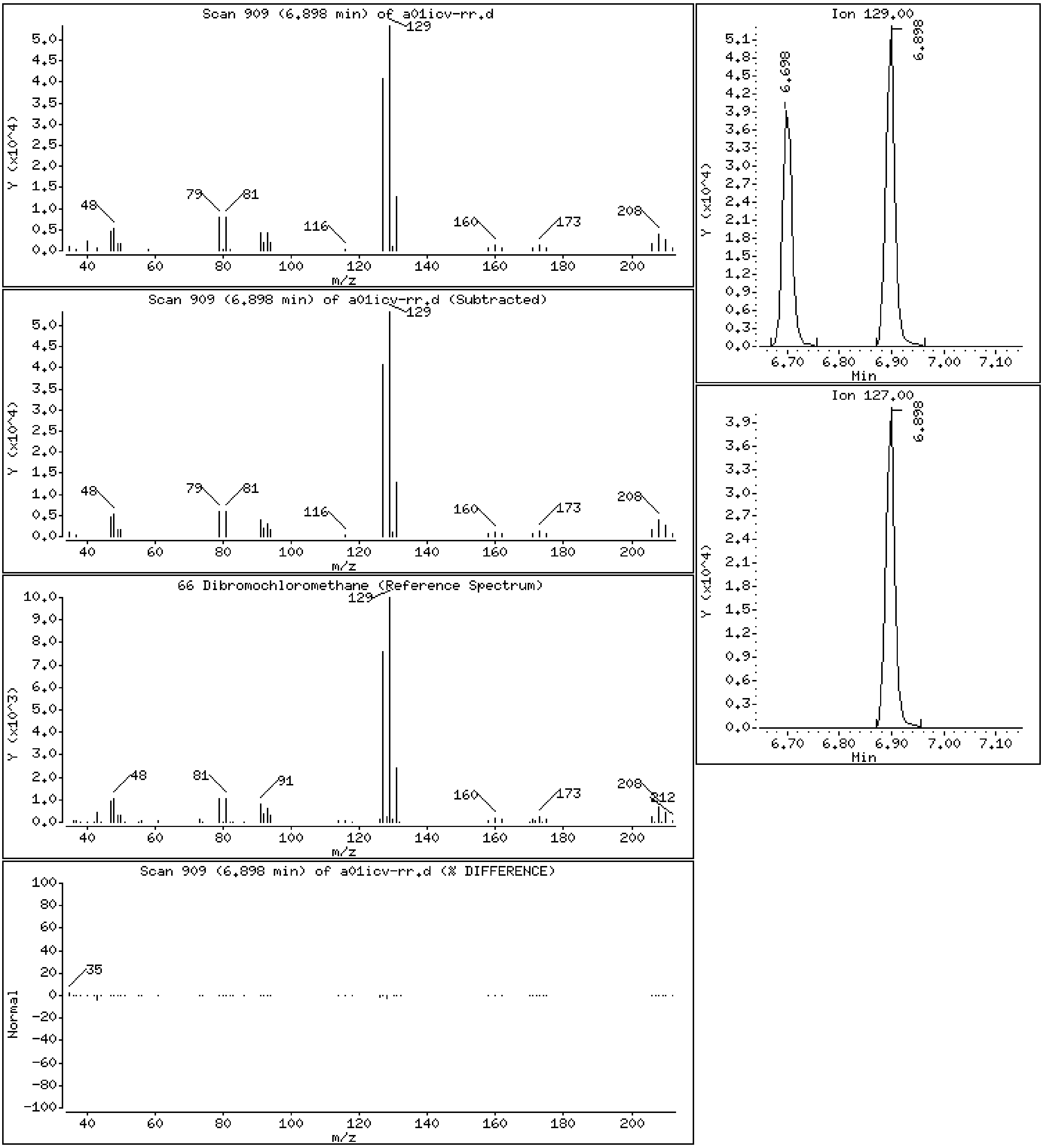
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

66 Dibromochloromethane Concentration: 54.7 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

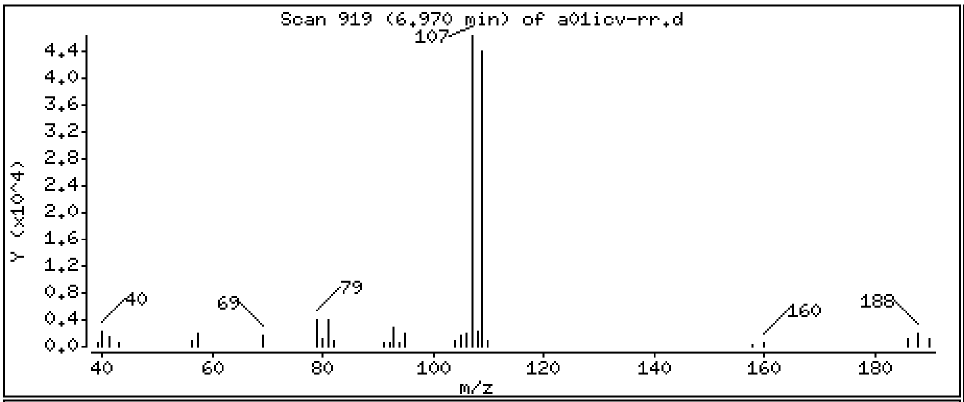
Column phase: DB-624

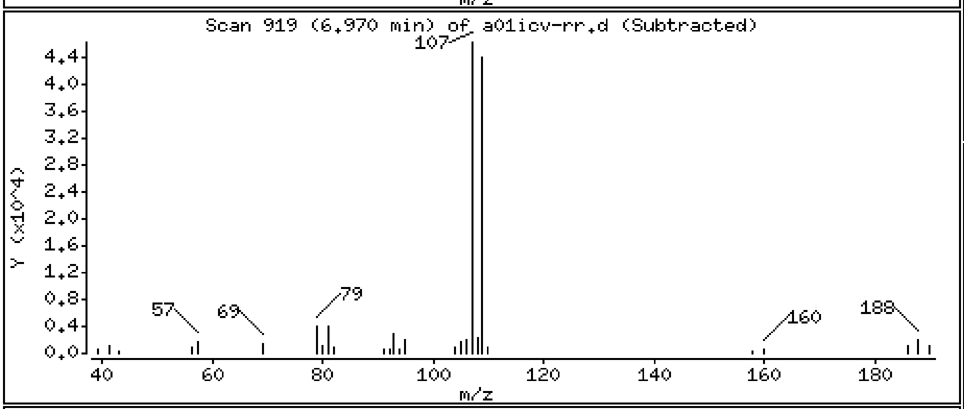
Column diameter: 0.18

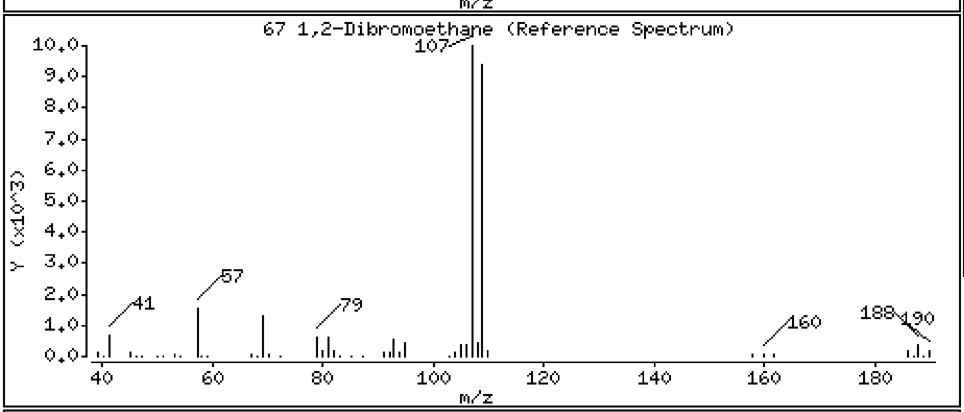
67 1,2-Dibromoethane

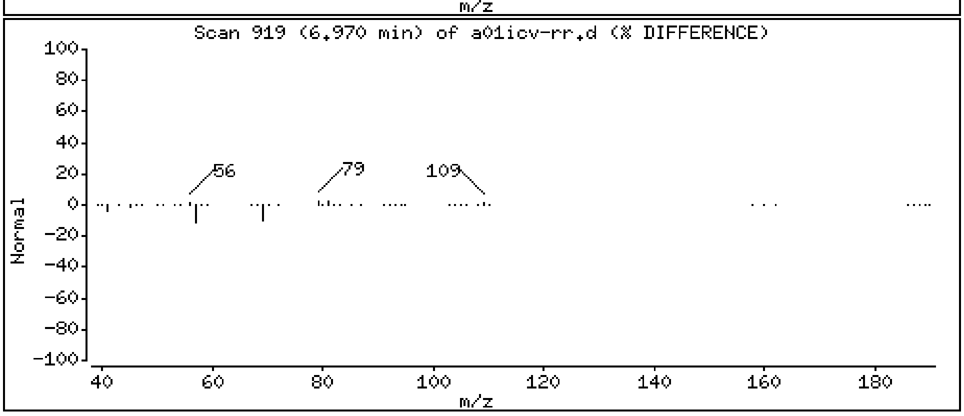
Concentration: 55.0 ppb

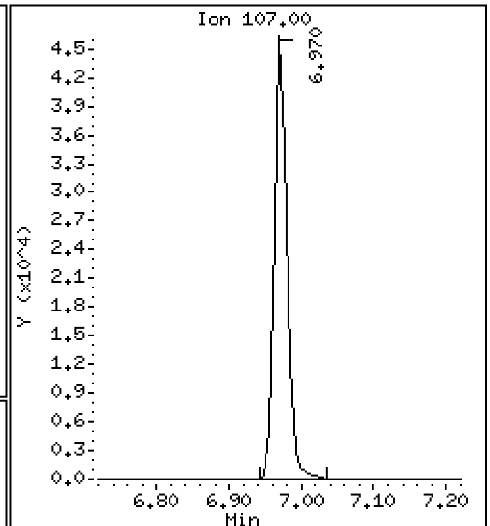
Review Code:

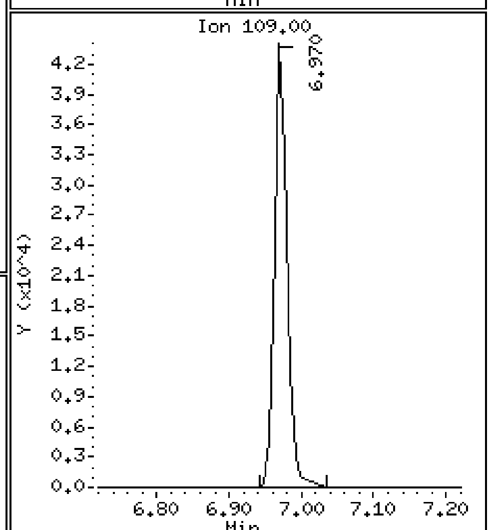












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

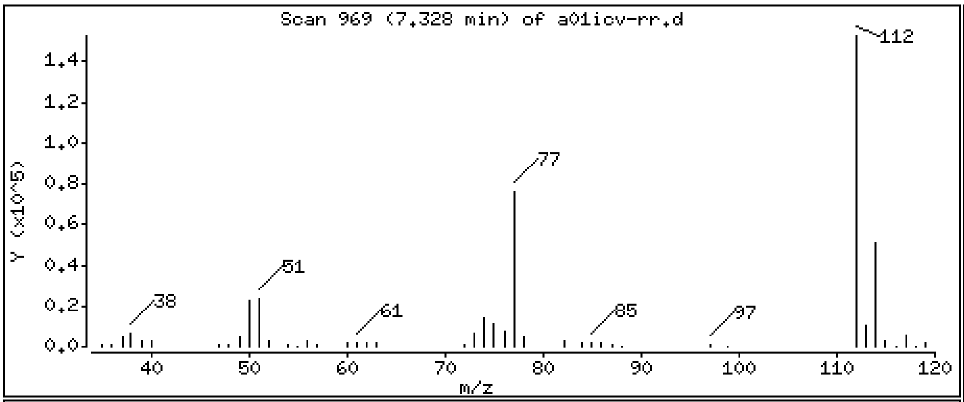
Column phase: DB-624

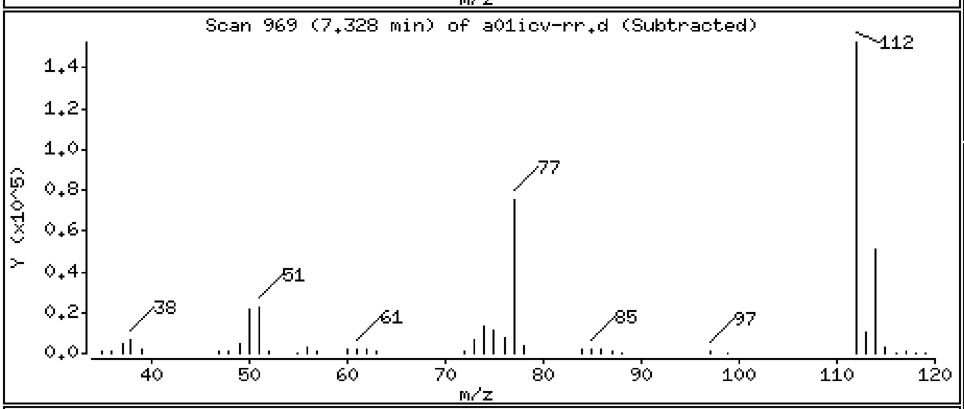
Column diameter: 0.18

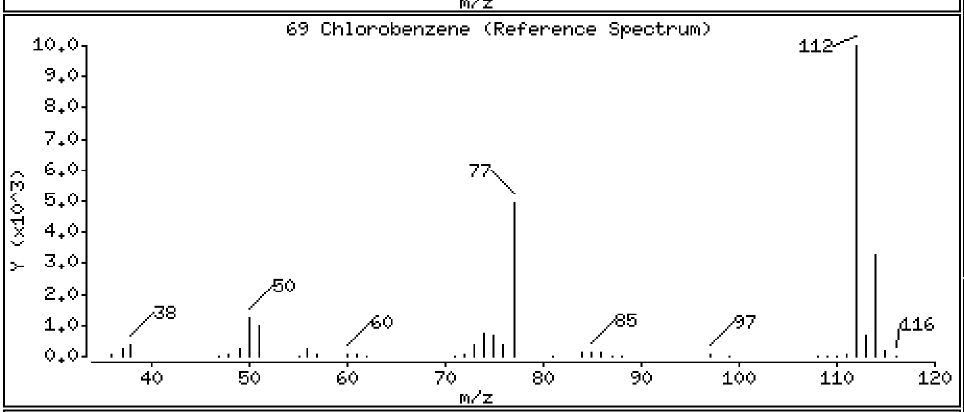
69 Chlorobenzene

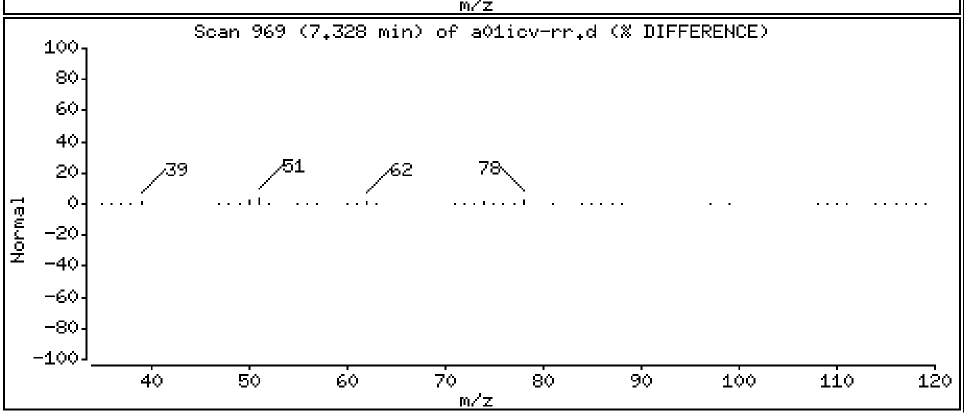
Concentration: 50.6 ppb

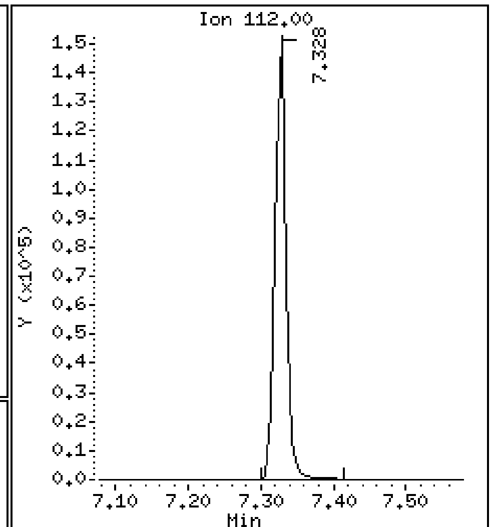
Review Code:

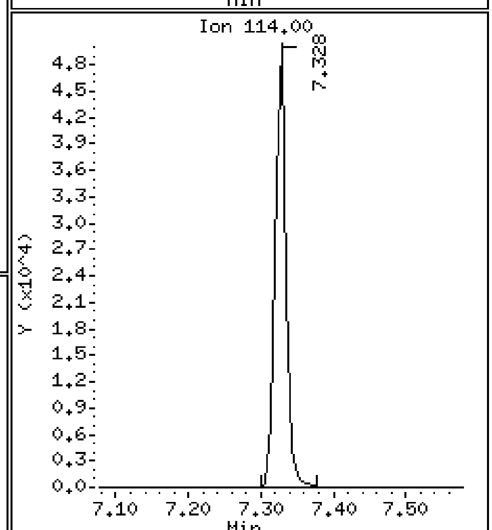


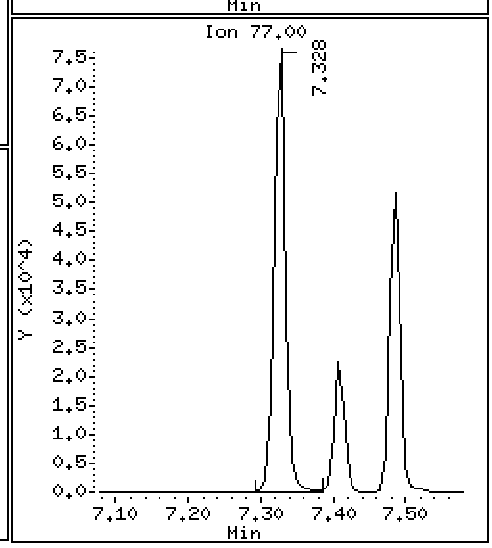












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

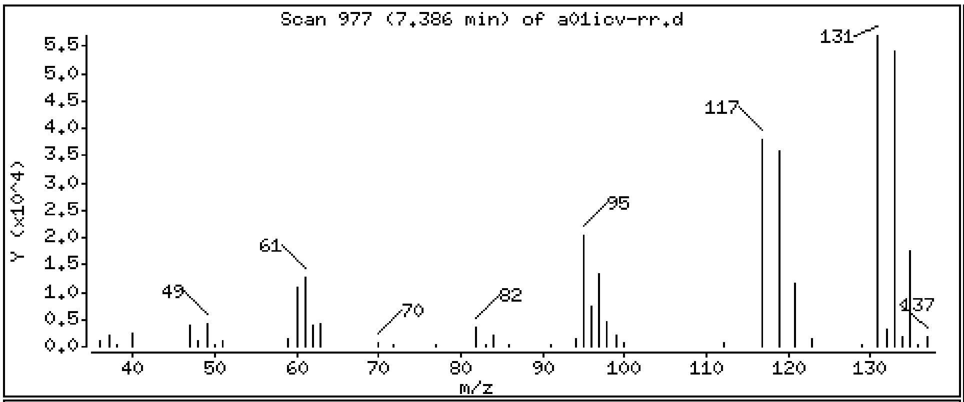
Column phase: DB-624

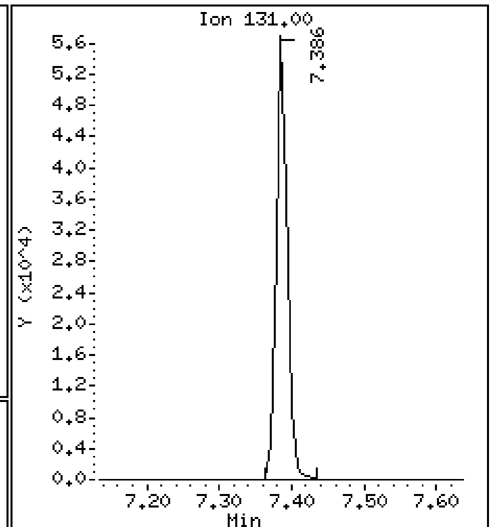
Column diameter: 0.18

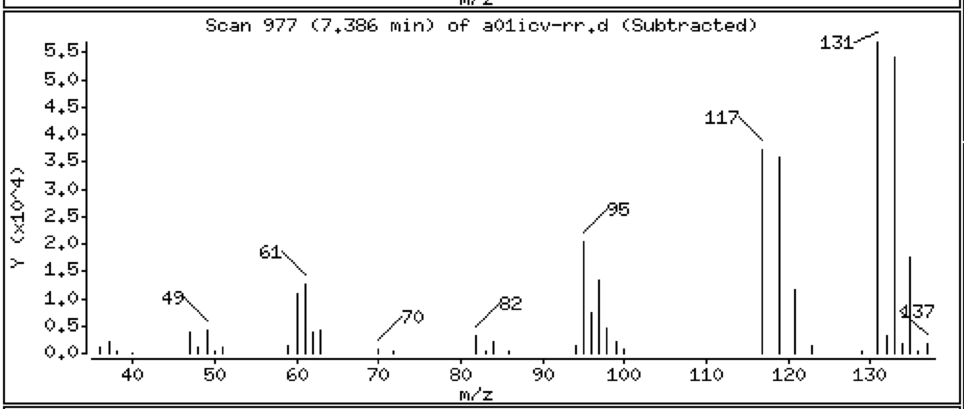
70 1,1,1,2-Tetrachloroethane

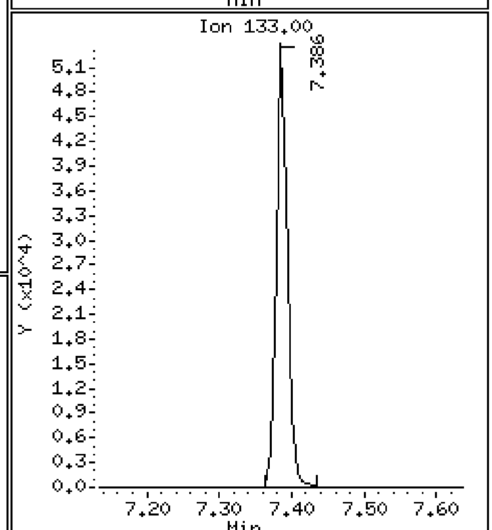
Concentration: 53.1 ppb

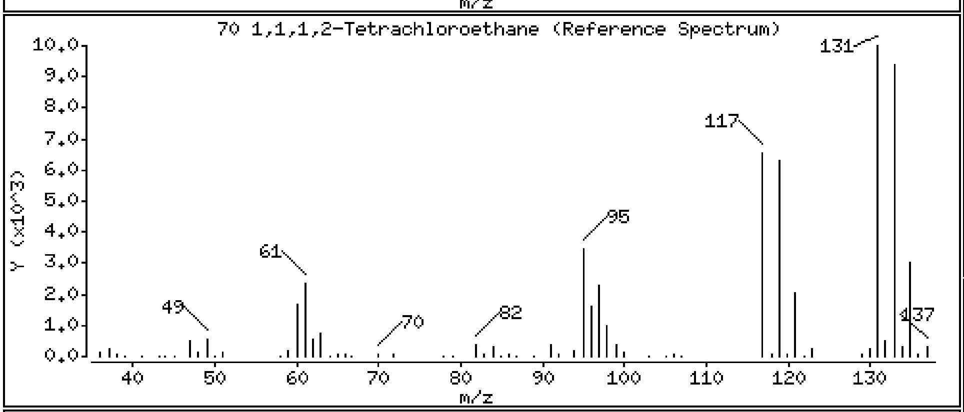
Review Code:

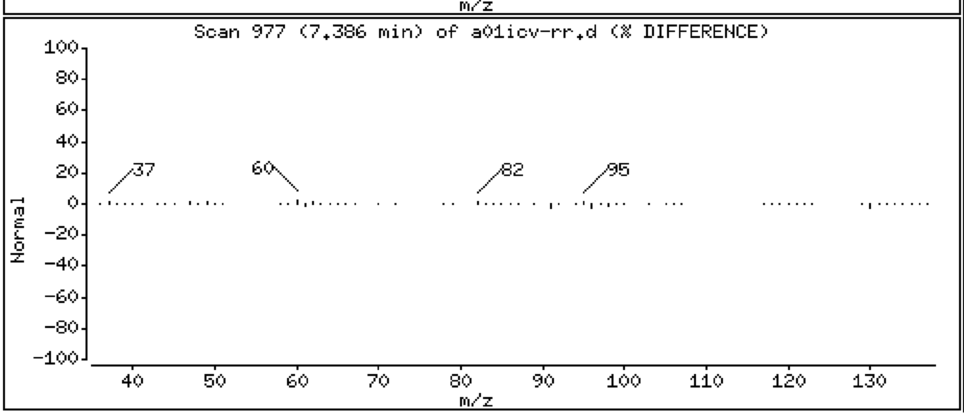


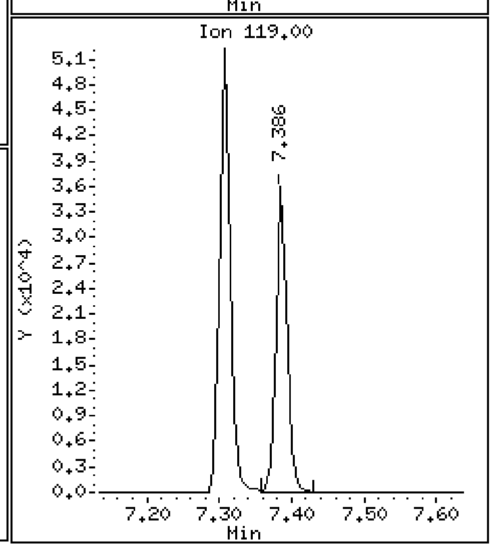












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

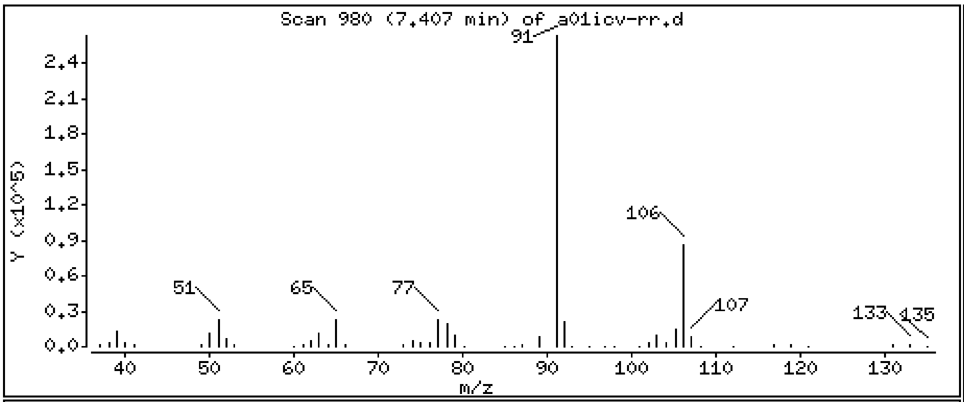
Column phase: DB-624

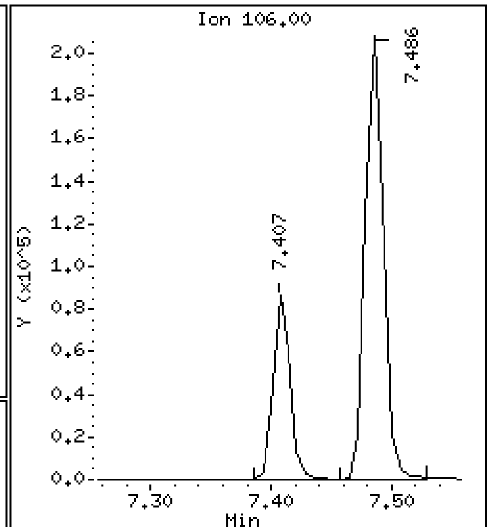
Column diameter: 0.18

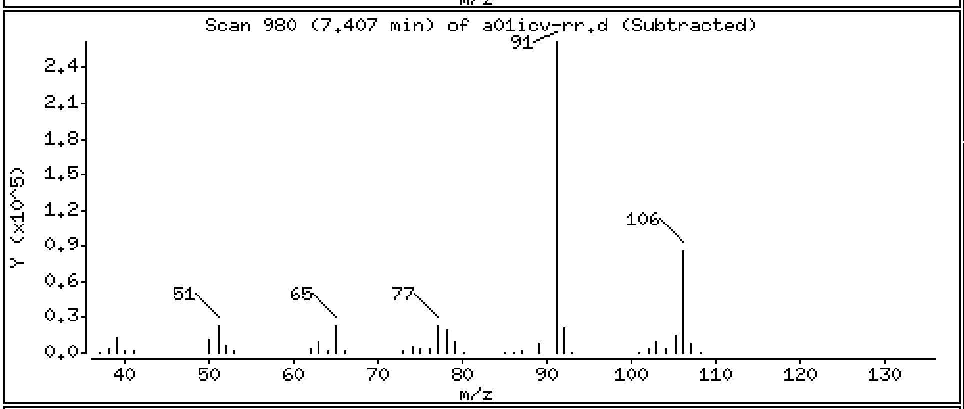
71 Ethylbenzene

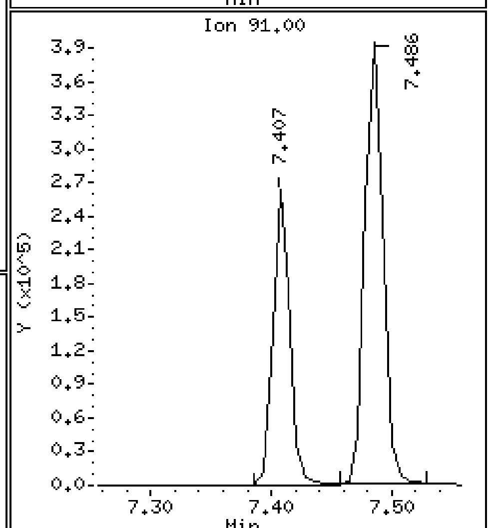
Concentration: 50.9 ppb

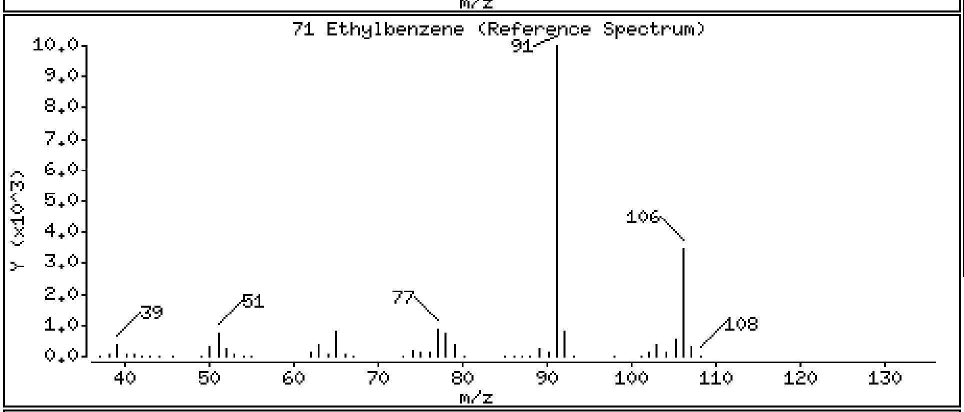
Review Code:

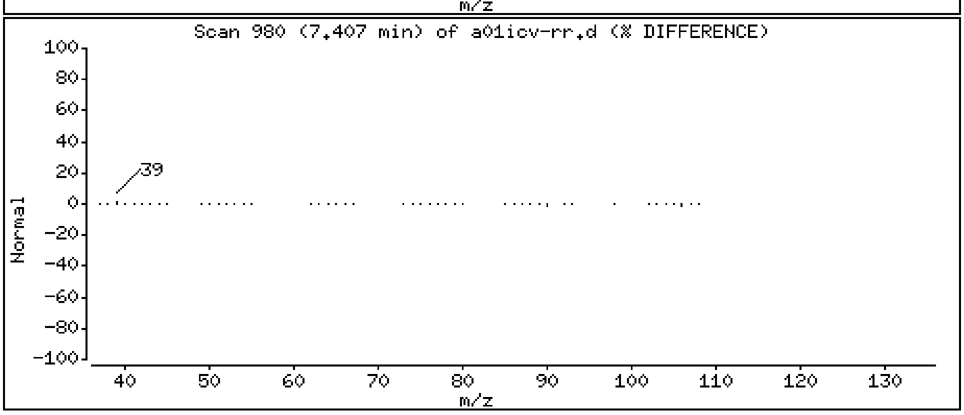












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

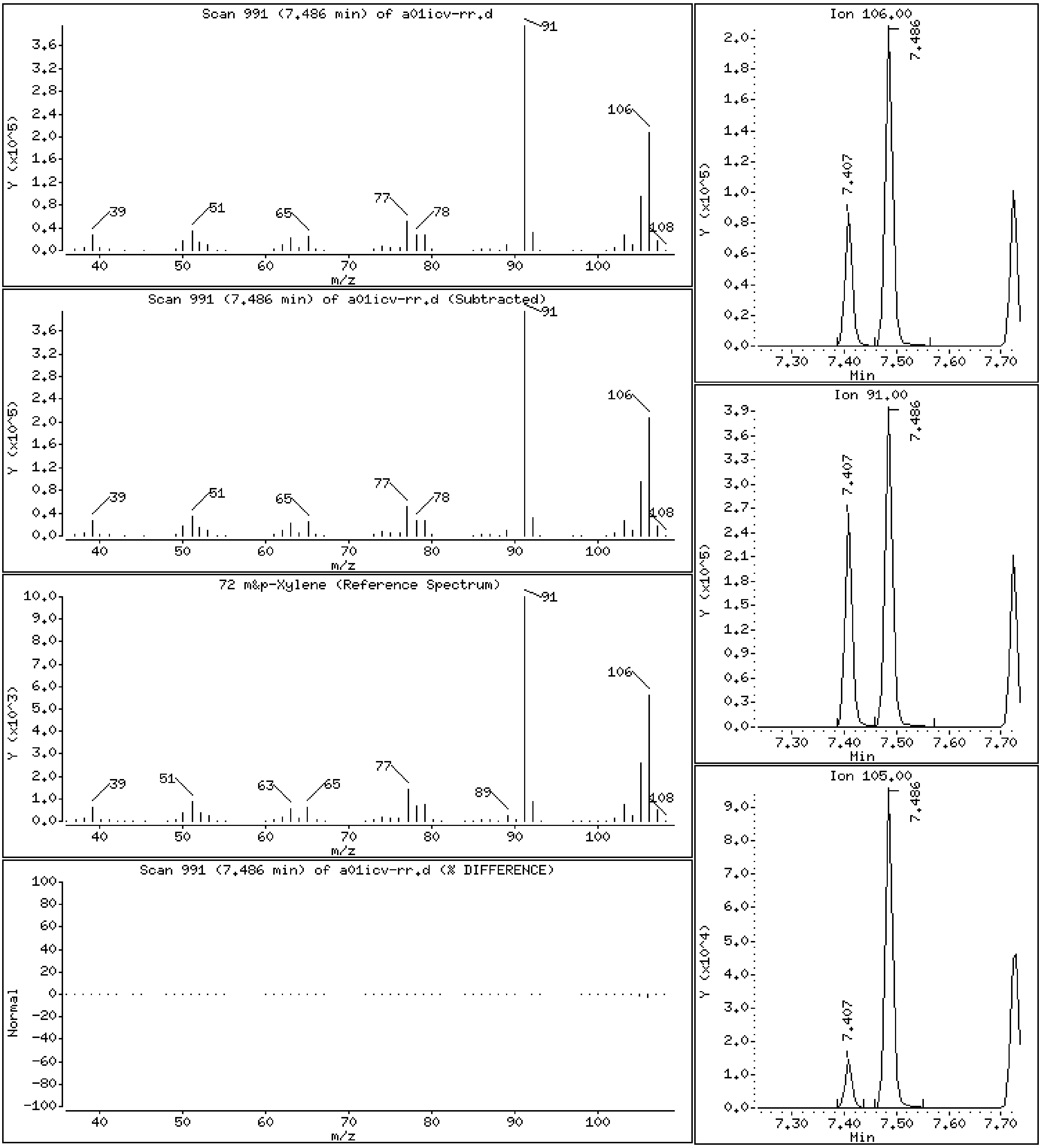
Column phase: DB-624

Column diameter: 0.18

72 m&p-Xylene

Concentration: 100 ppb

Review Code:



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Date : 26-JAN-2023 09:06

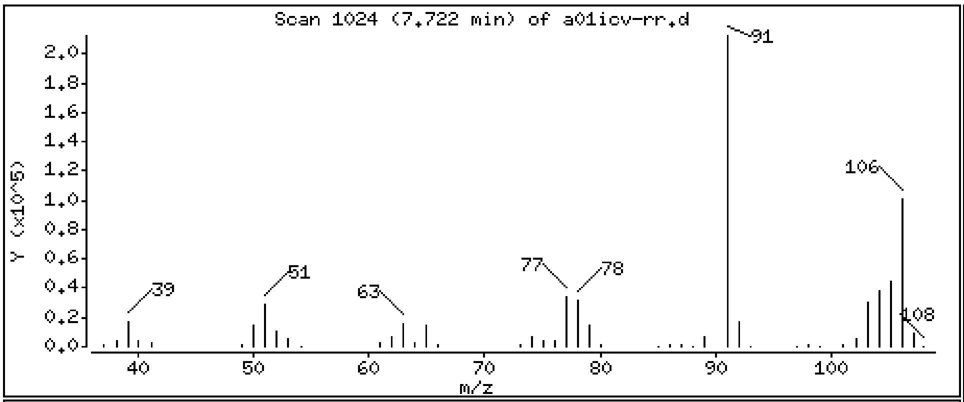
Client ID: Instrument: 50mv2a.i

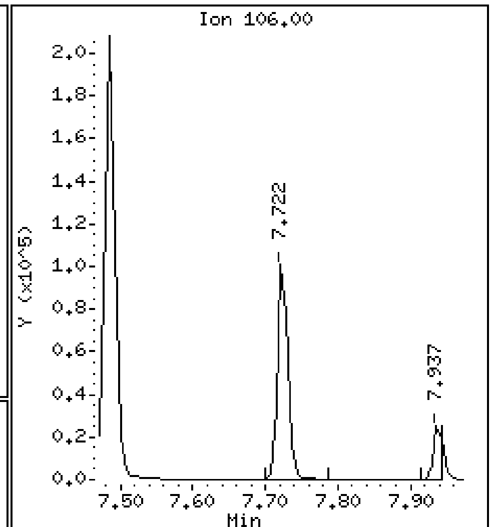
Sample Info: 8260-ICV,336828

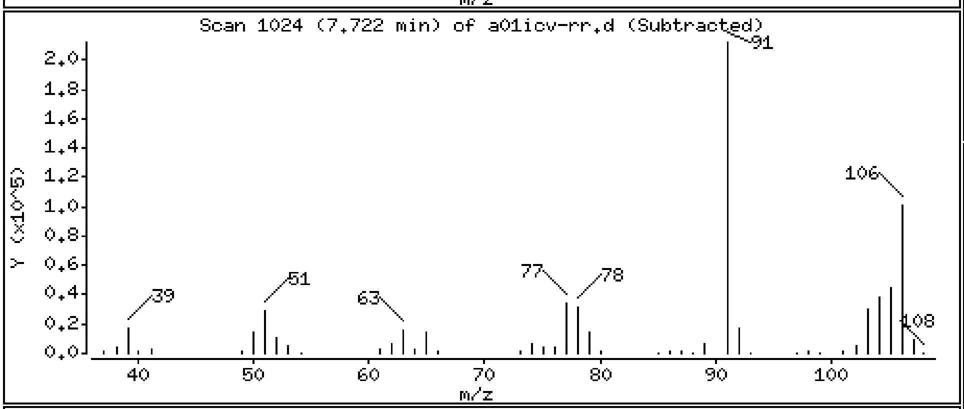
Purge Volume: 5.0 Operator: tkg

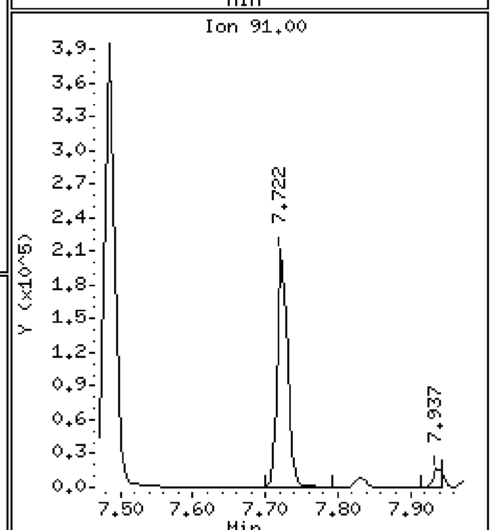
Column phase: DB-624 Column diameter: 0.18

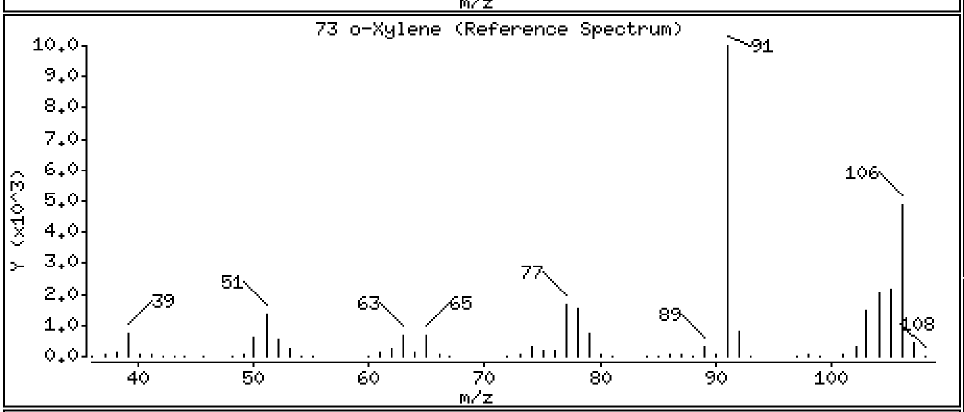
73 o-Xylene Concentration: 50.2 ppb Review Code:

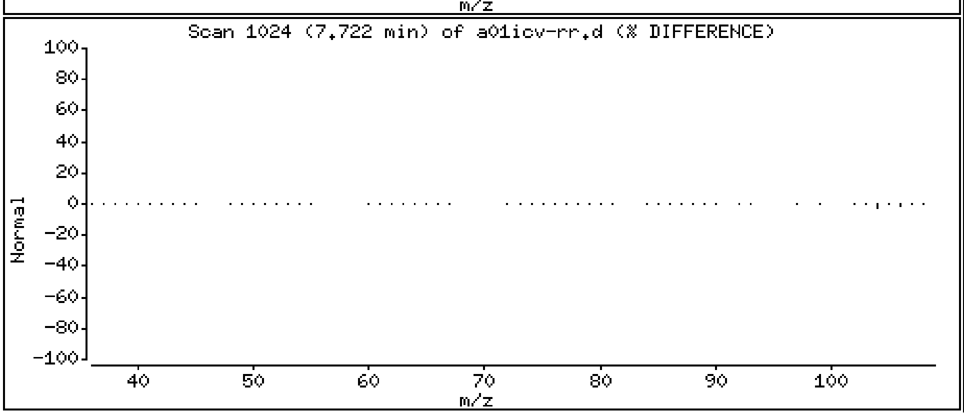


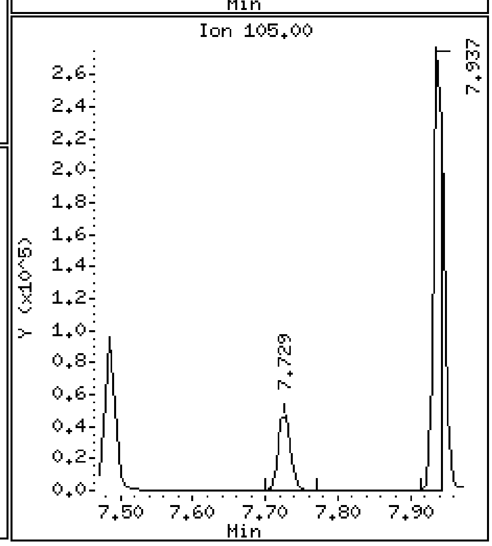












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

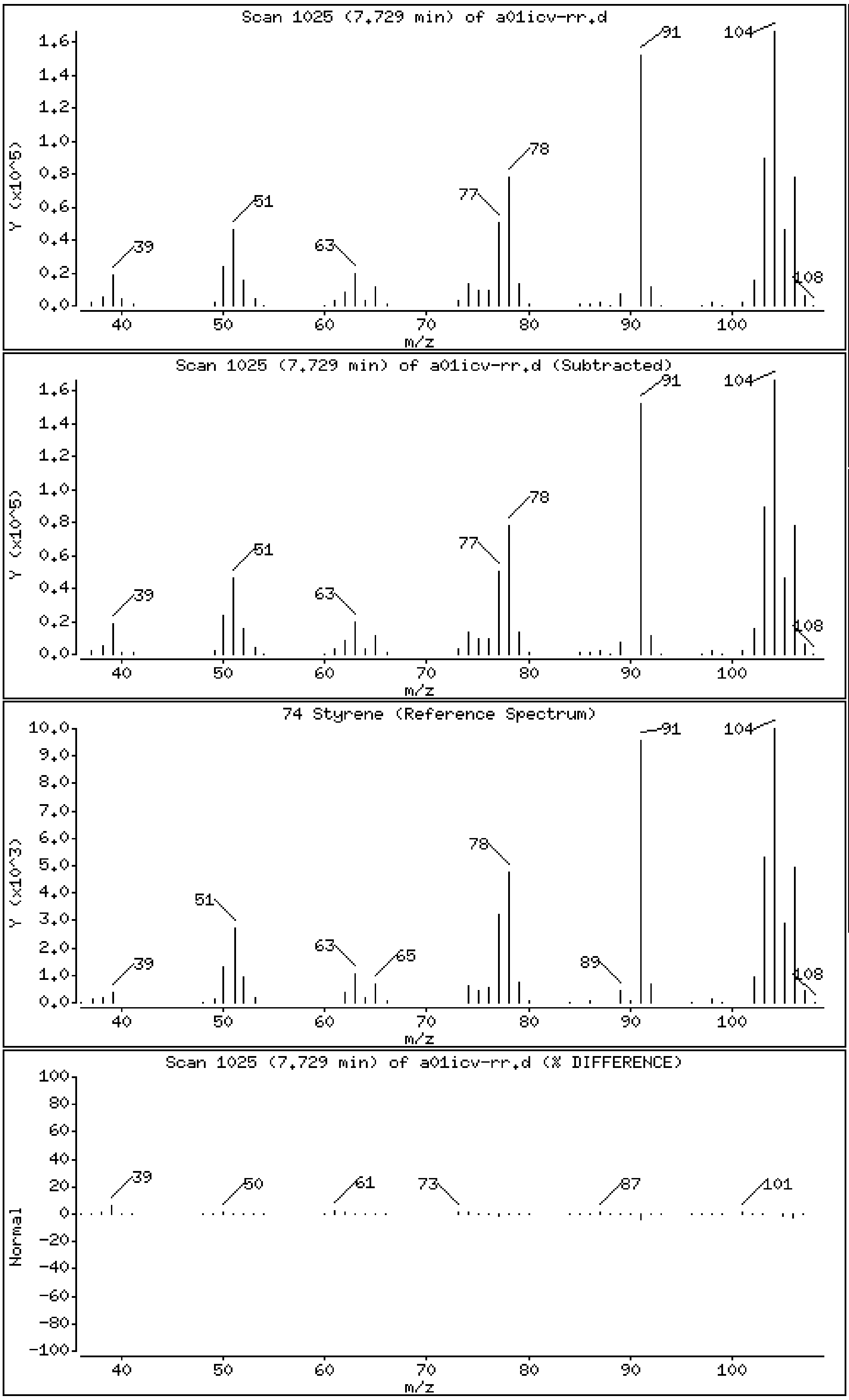
Column phase: DB-624

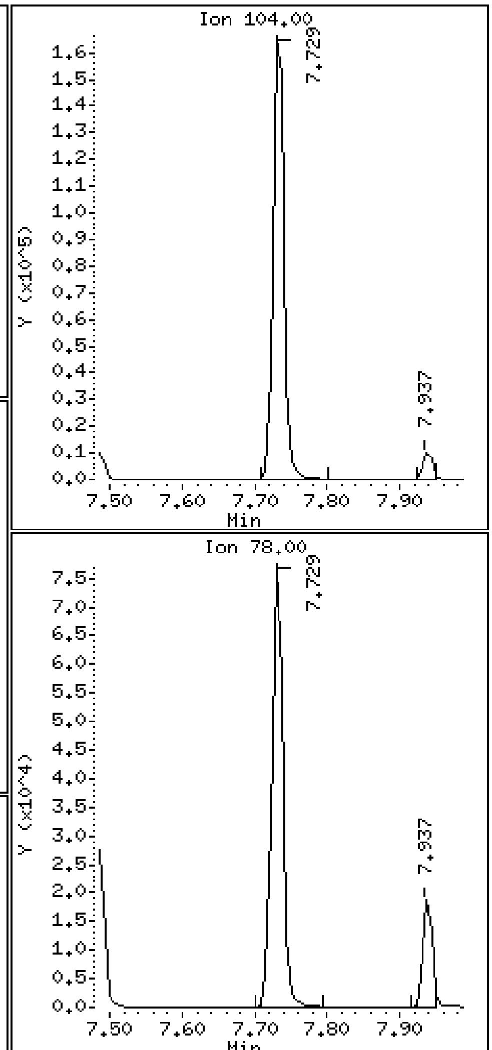
Column diameter: 0.18

74 Styrene

Concentration: 50.7 ppb

Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

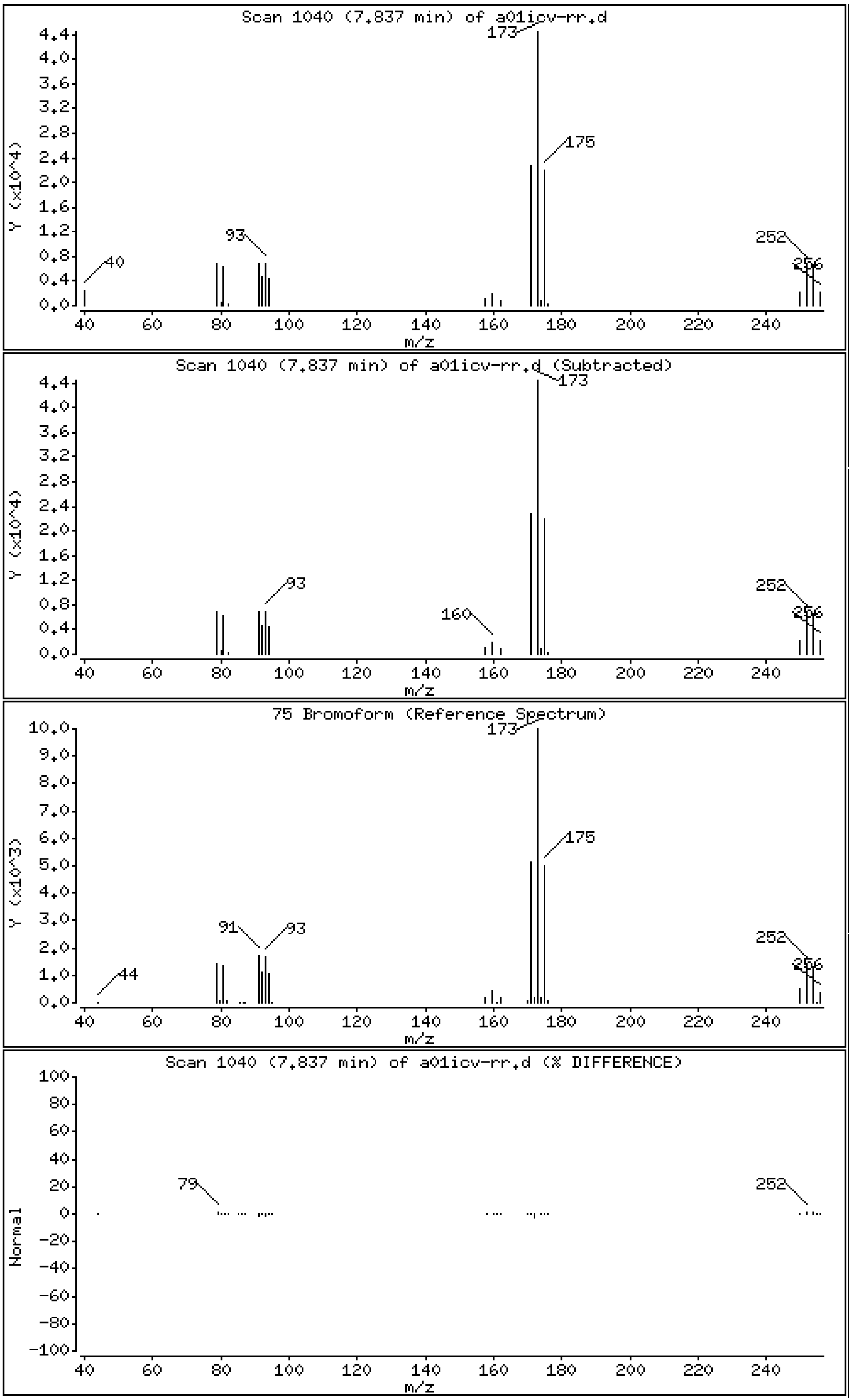
Column phase: DB-624

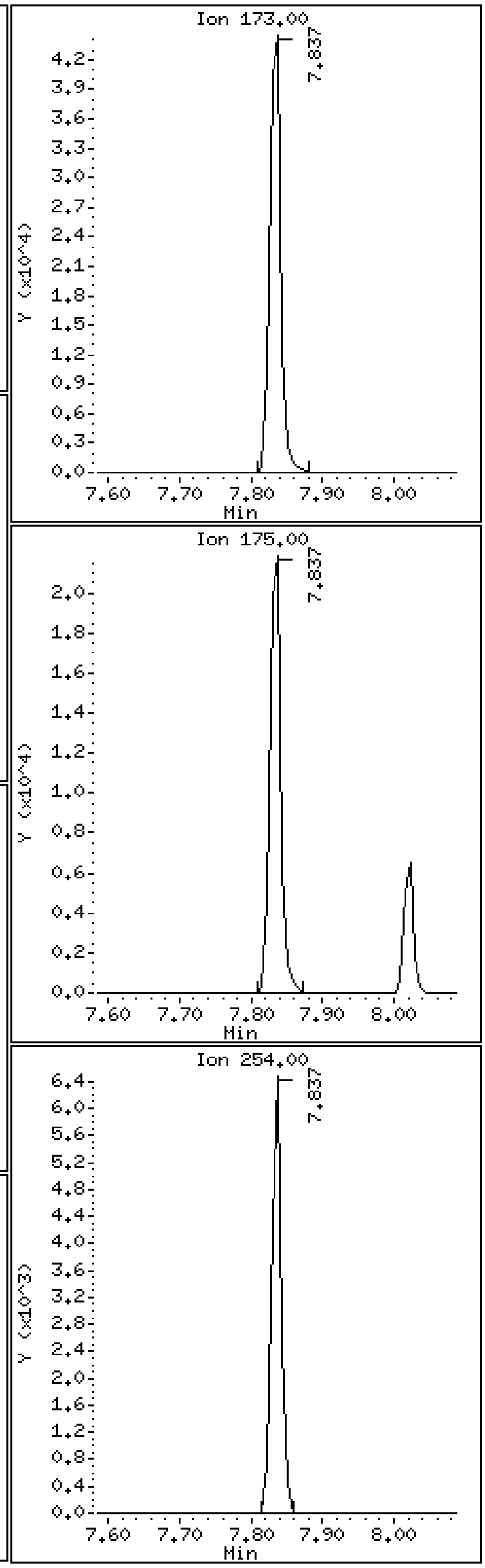
Column diameter: 0.18

75 Bromoform

Concentration: 46.0 ppb

Review Code:





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Date : 26-JAN-2023 09:06

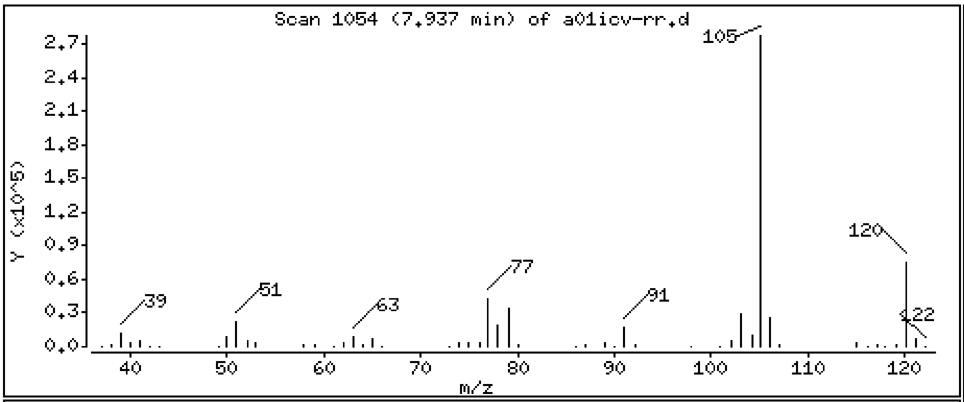
Client ID: Instrument: 50mv2a.i

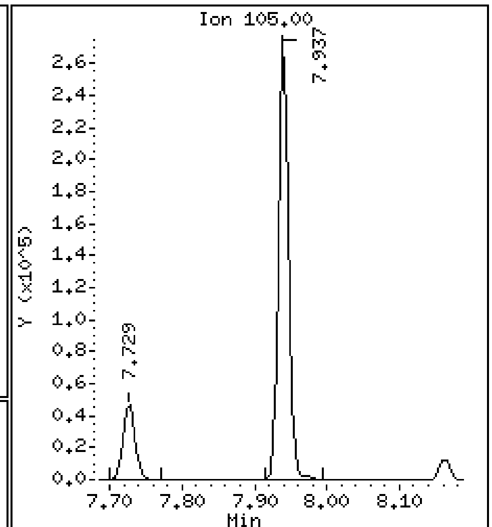
Sample Info: 8260-ICV,336828

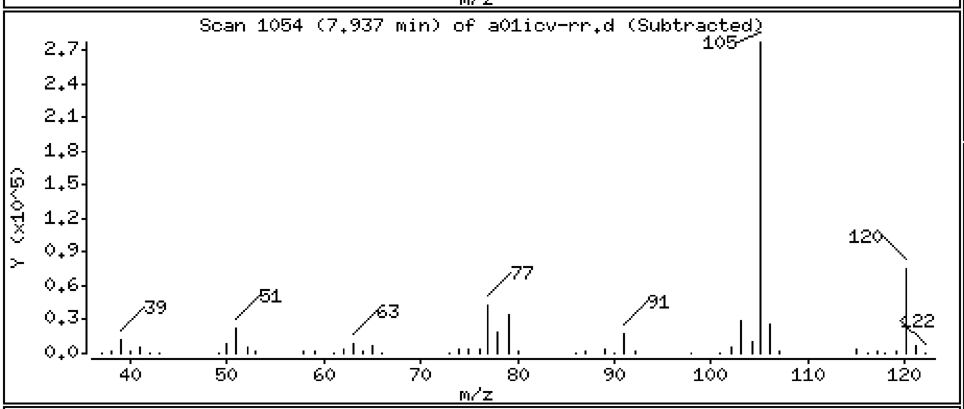
Purge Volume: 5.0 Operator: tkg

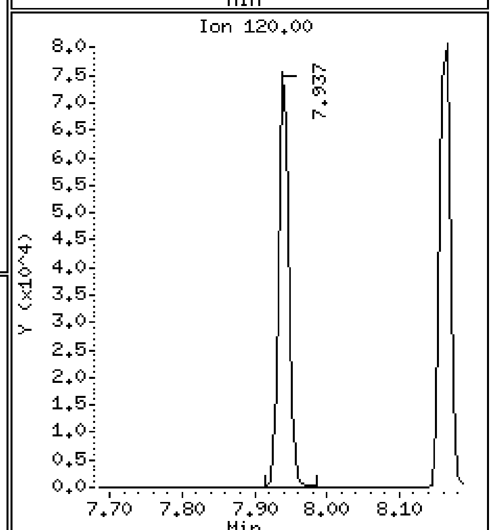
Column phase: DB-624 Column diameter: 0.18

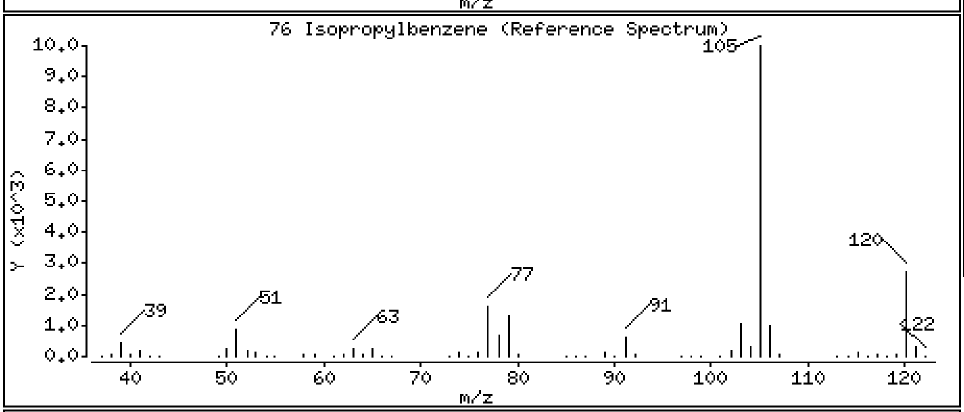
76 Isopropylbenzene Concentration: 50.4 ppb Review Code:

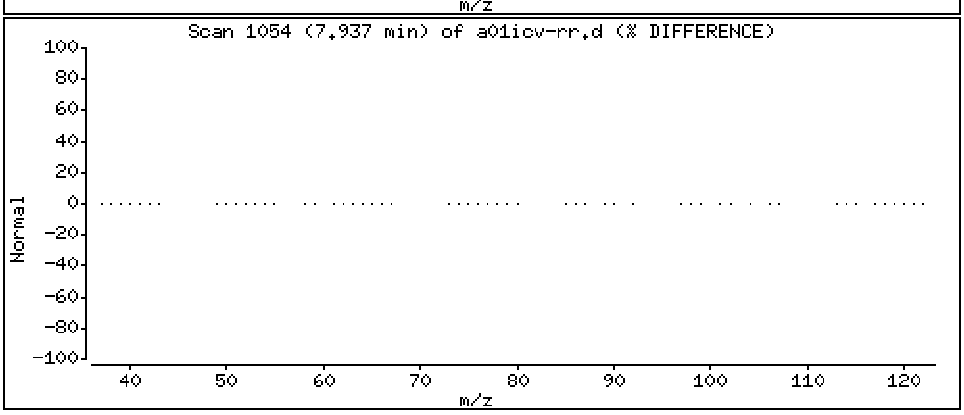












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

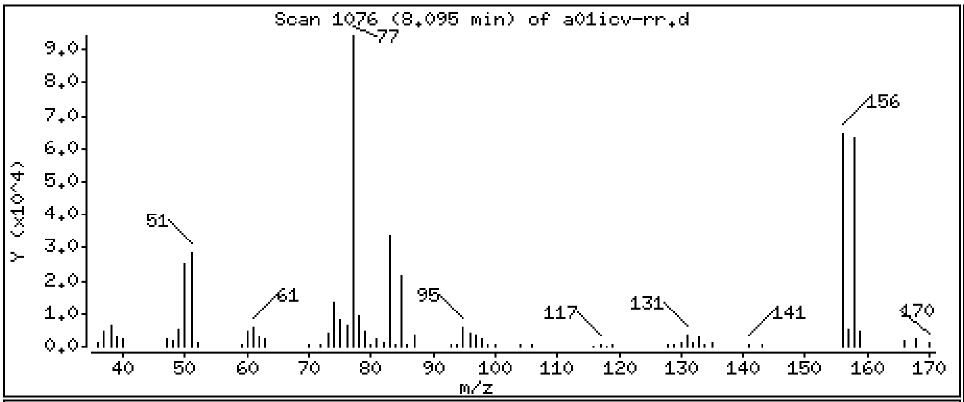
Column phase: DB-624

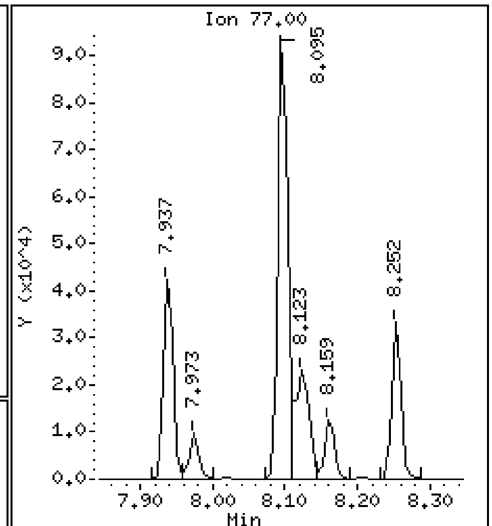
Column diameter: 0.18

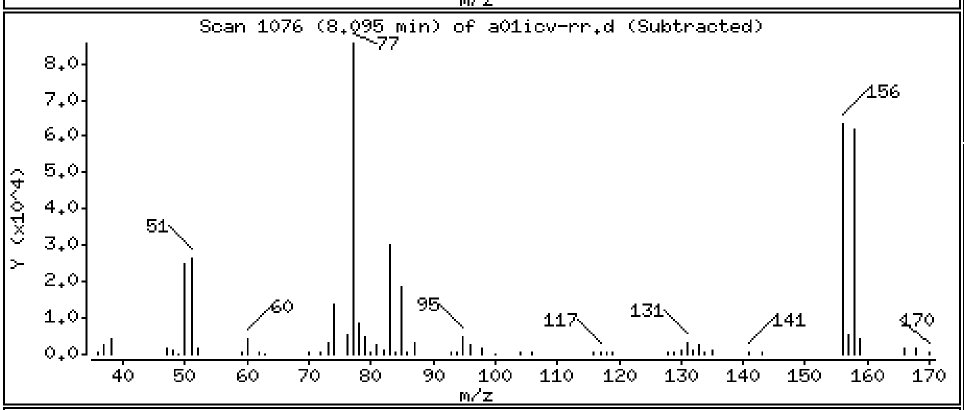
78 Bromobenzene

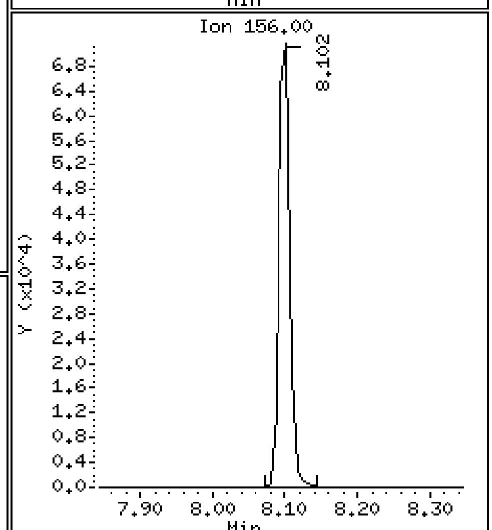
Concentration: 47.6 ppb

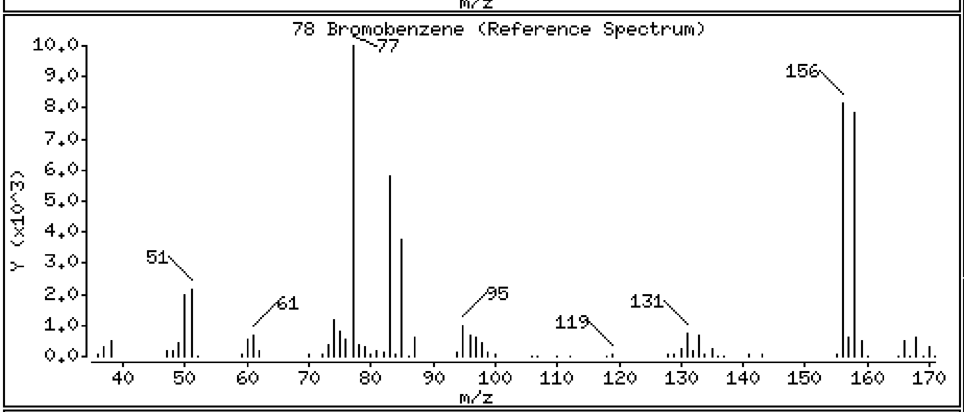
Review Code:

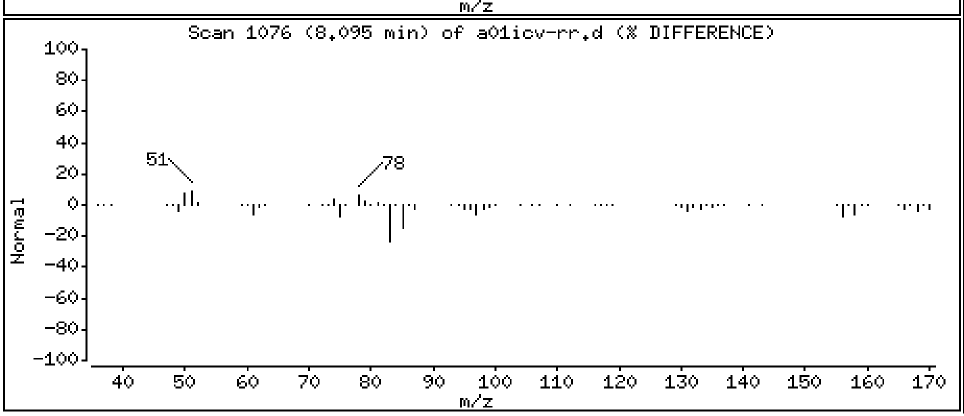


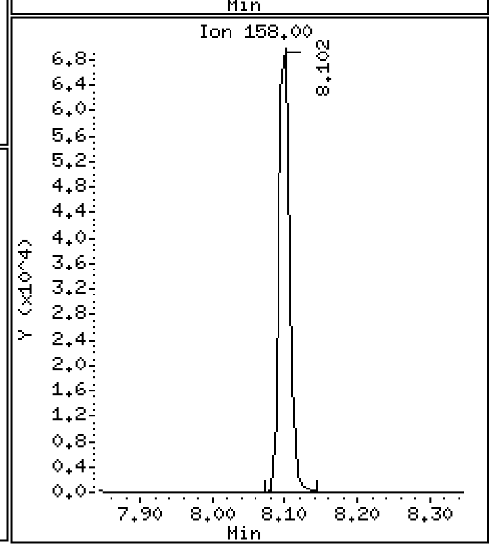












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Date : 26-JAN-2023 09:06

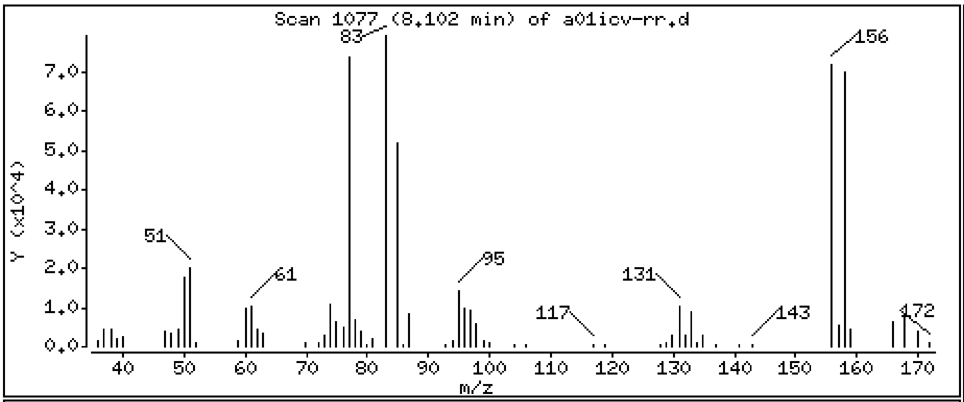
Client ID: Instrument: 50mv2a.i

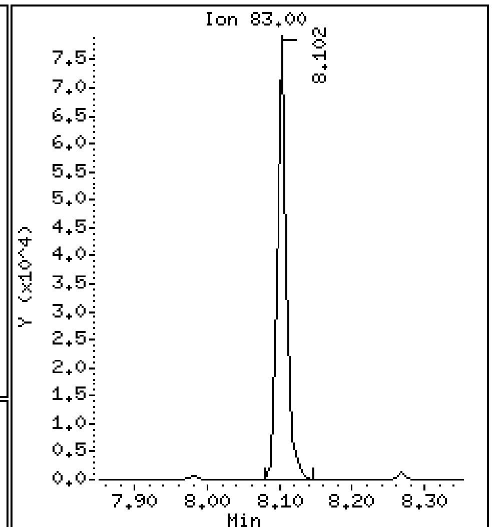
Sample Info: 8260-ICV,336828

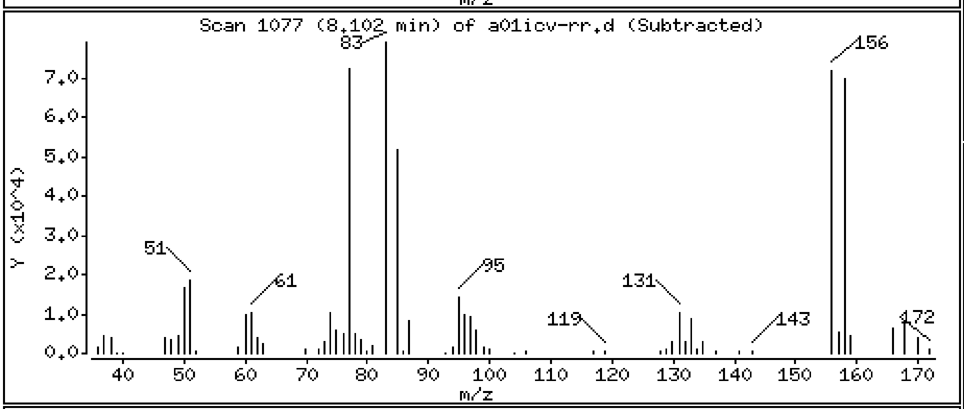
Purge Volume: 5.0 Operator: tkg

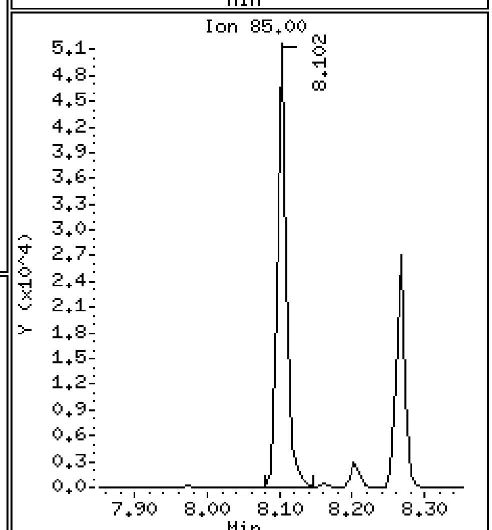
Column phase: DB-624 Column diameter: 0.18

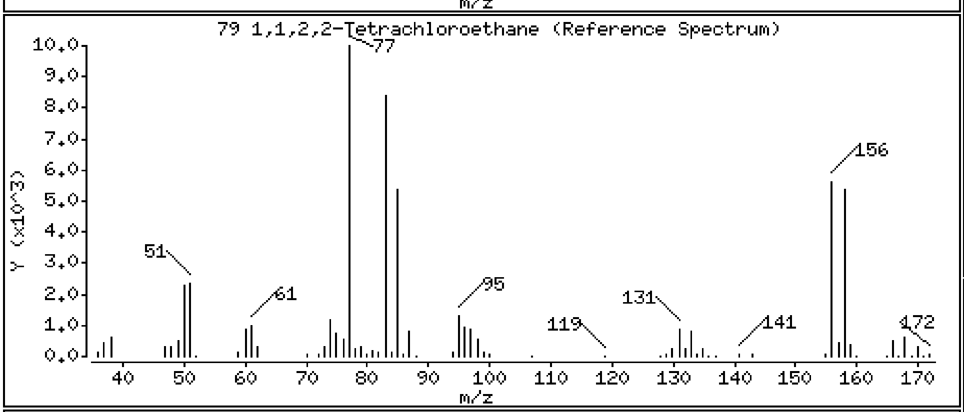
79 1,1,2,2-Tetrachloroethane Concentration: 52.8 ppb Review Code:

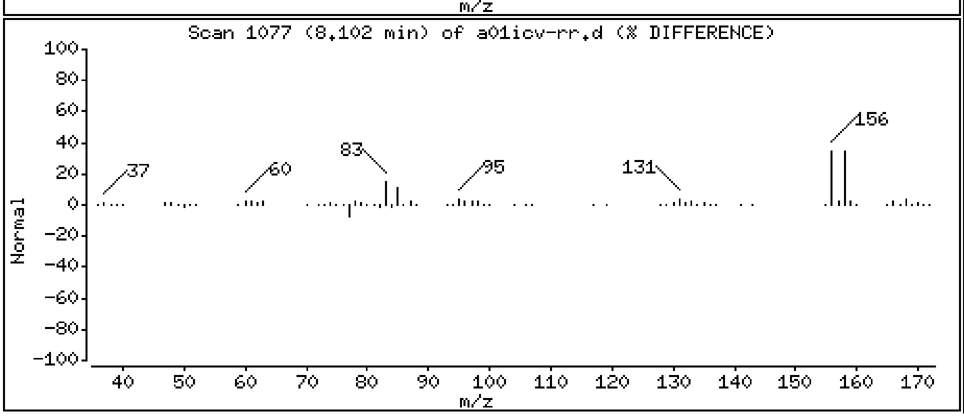


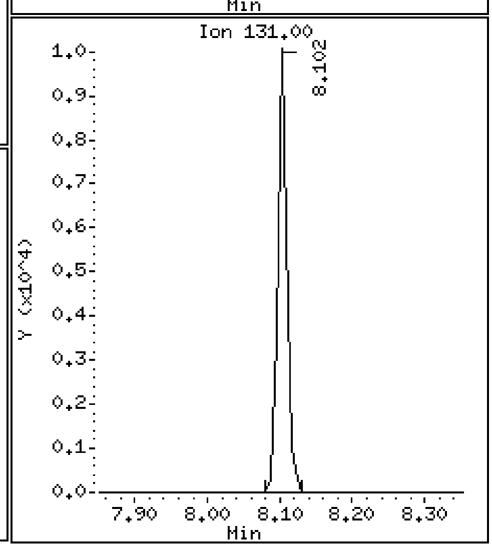












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Date : 26-JAN-2023 09:06

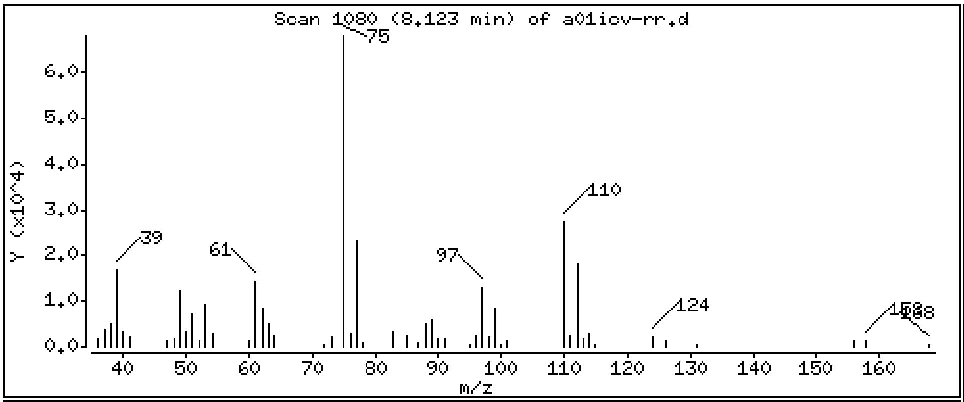
Client ID: Instrument: 50mv2a.i

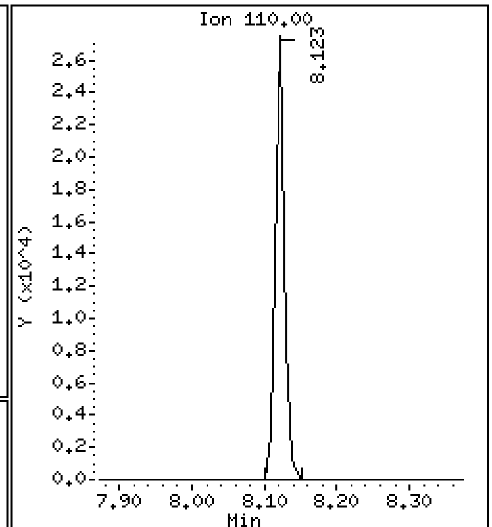
Sample Info: 8260-ICV,336828

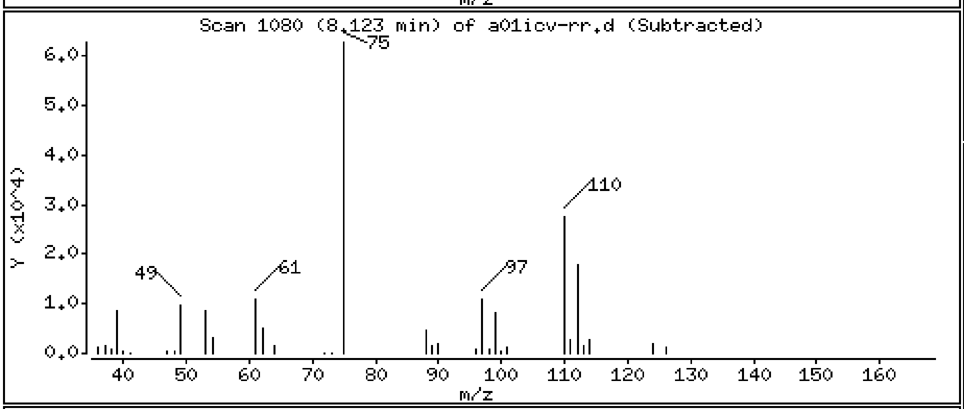
Purge Volume: 5.0 Operator: tkg

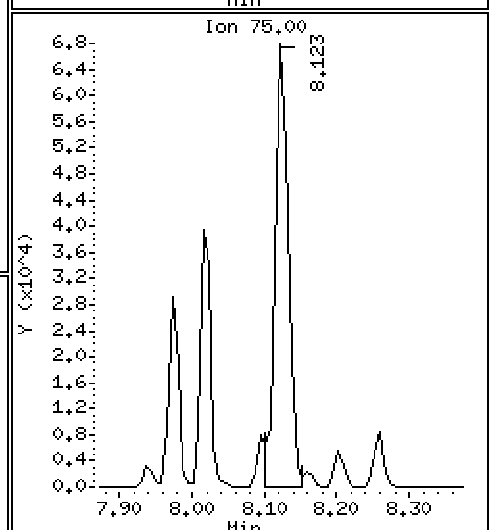
Column phase: DB-624 Column diameter: 0.18

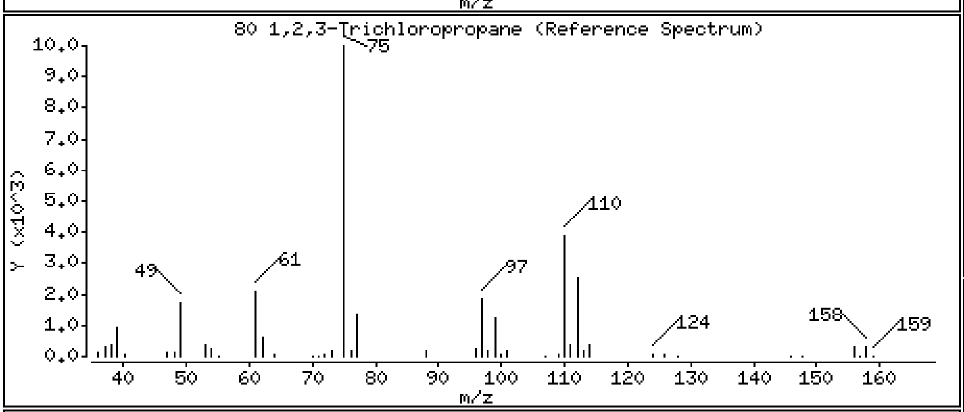
80 1,2,3-Trichloropropane Concentration: 51.8 ppb Review Code:

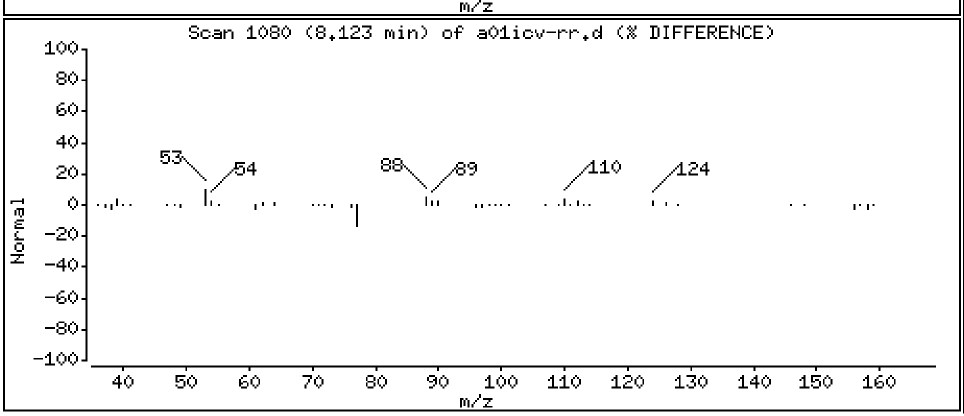


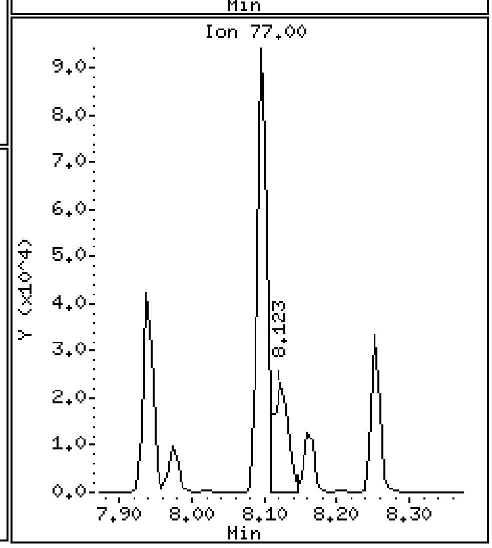












Date : 26-JAN-2023 09:06

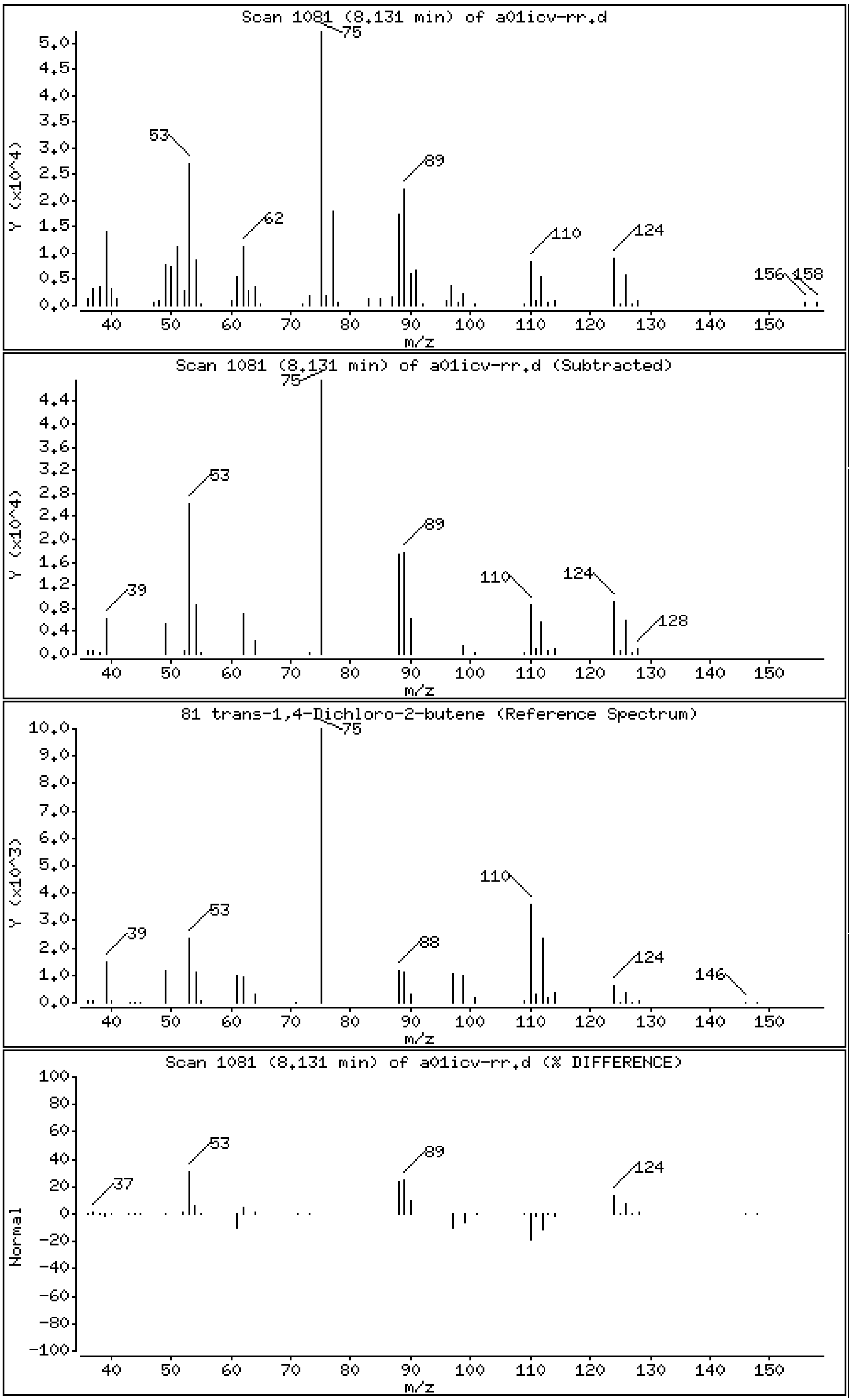
Client ID: Instrument: 50mv2a.i

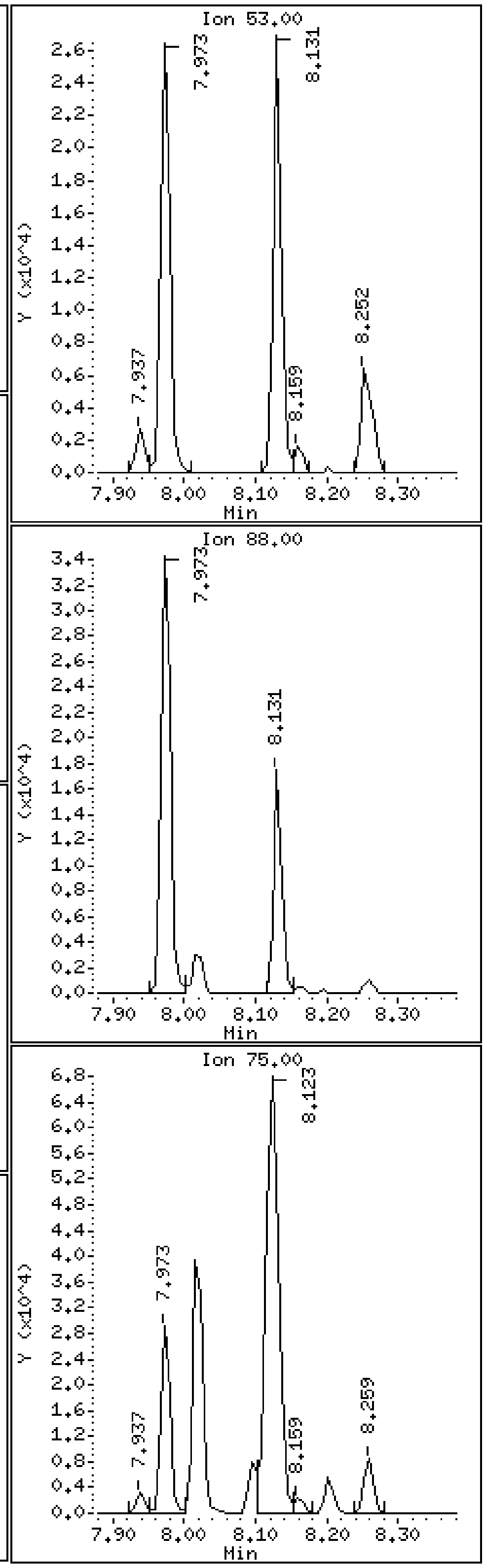
Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

81 trans-1,4-Dichloro-2-butene Concentration: 53.9 ppb Review Code:





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Date : 26-JAN-2023 09:06

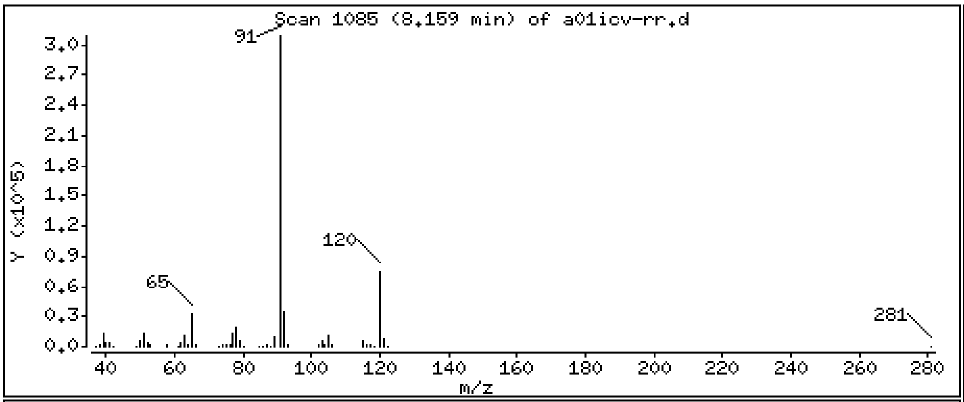
Client ID: Instrument: 50mv2a.i

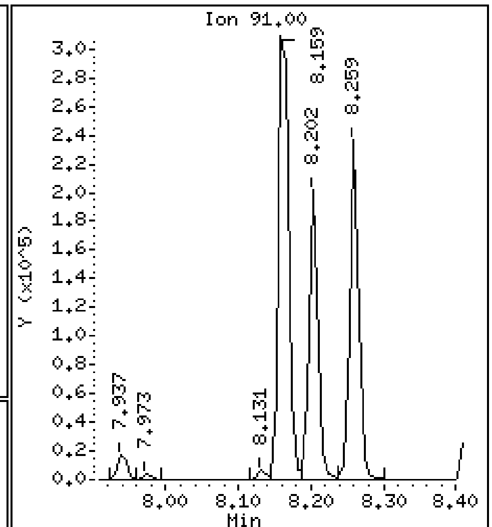
Sample Info: 8260-ICV,336828

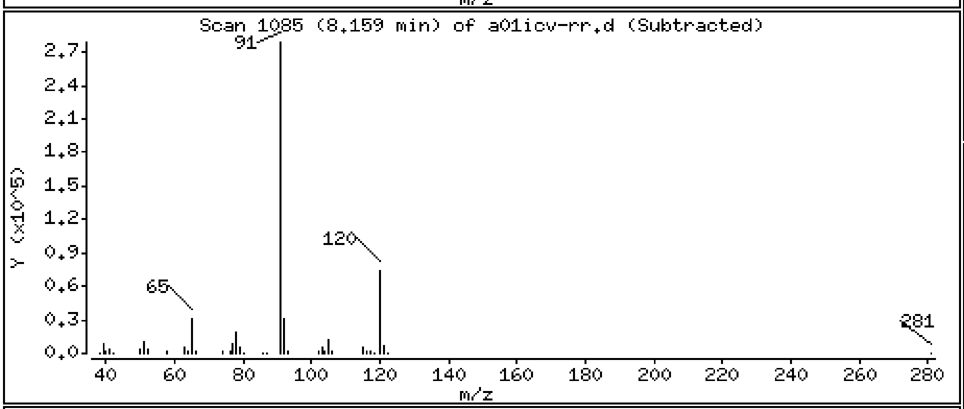
Purge Volume: 5.0 Operator: tkg

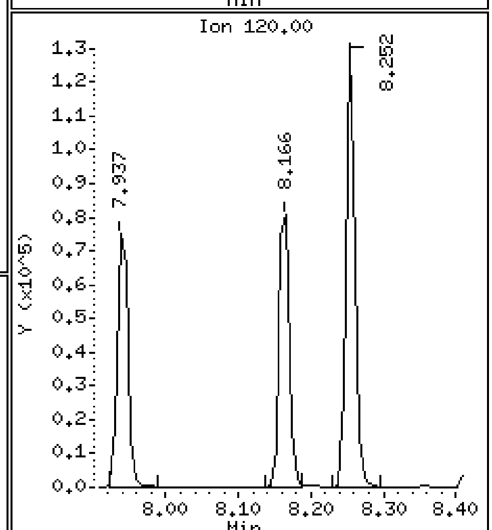
Column phase: DB-624 Column diameter: 0.18

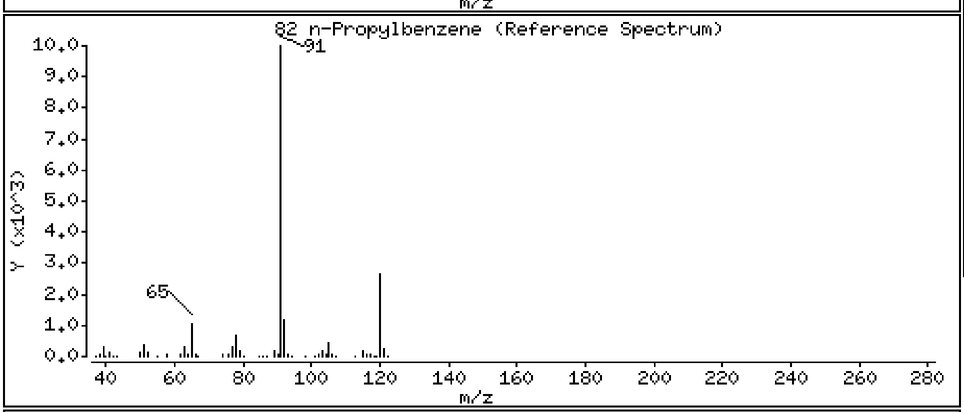
82 n-Propylbenzene Concentration: 50.6 ppb Review Code:

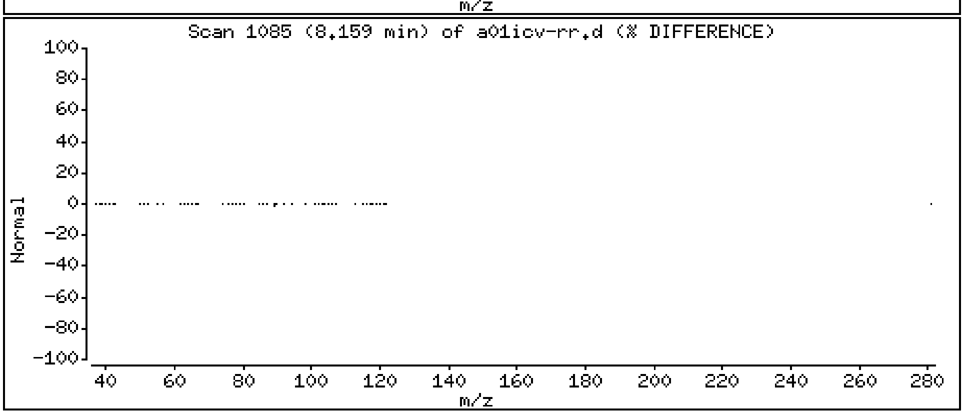












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Date : 26-JAN-2023 09:06

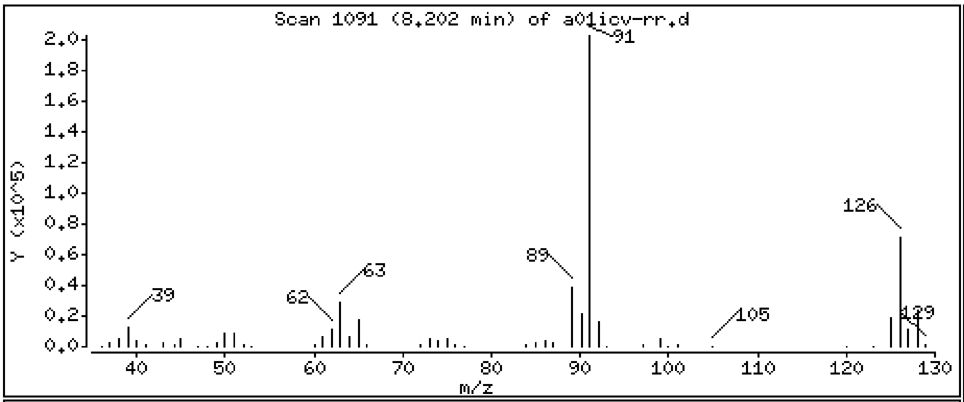
Client ID: Instrument: 50mv2a.i

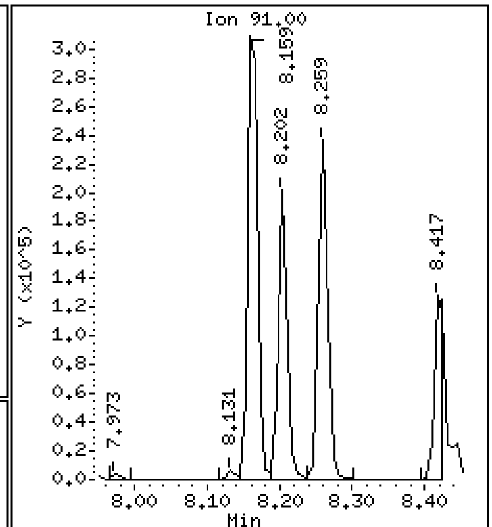
Sample Info: 8260-ICV,336828

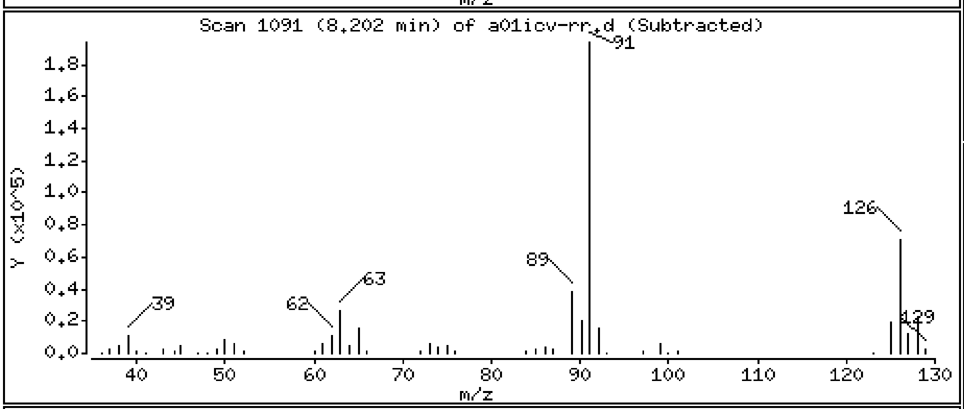
Purge Volume: 5.0 Operator: tkg

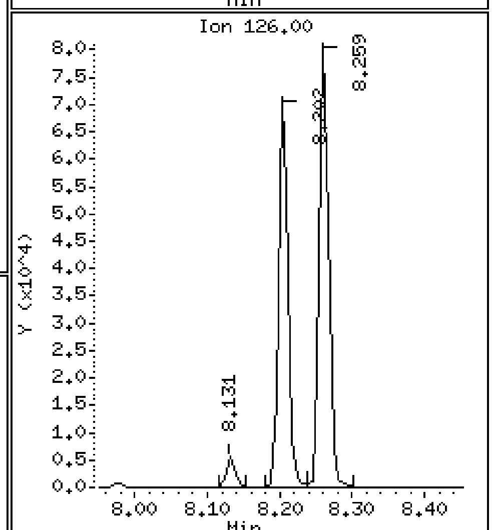
Column phase: DB-624 Column diameter: 0.18

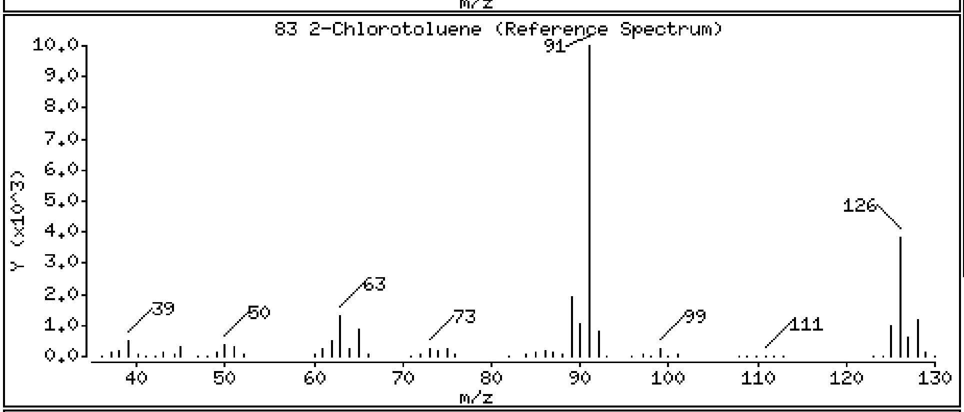
83 2-Chlorotoluene Concentration: 50.6 ppb Review Code:

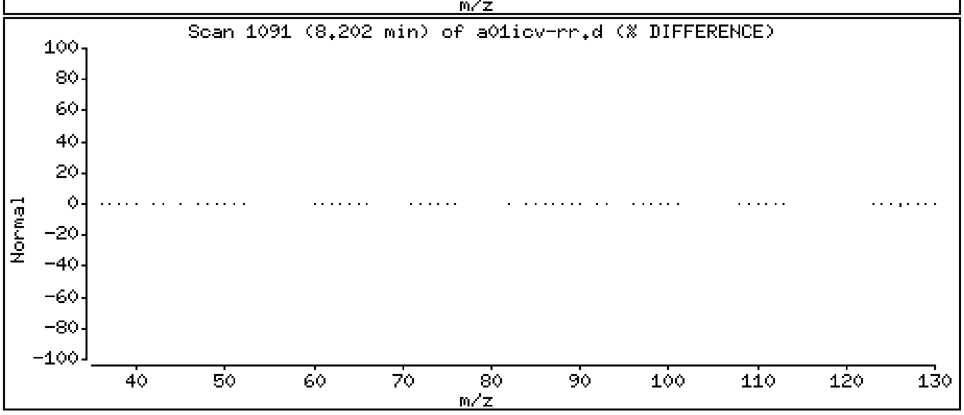












Date : 26-JAN-2023 09:06

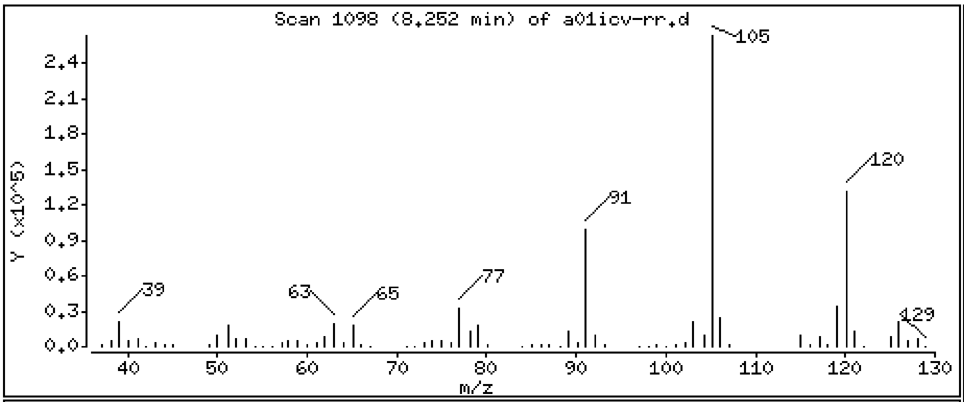
Client ID: Instrument: 50mv2a.i

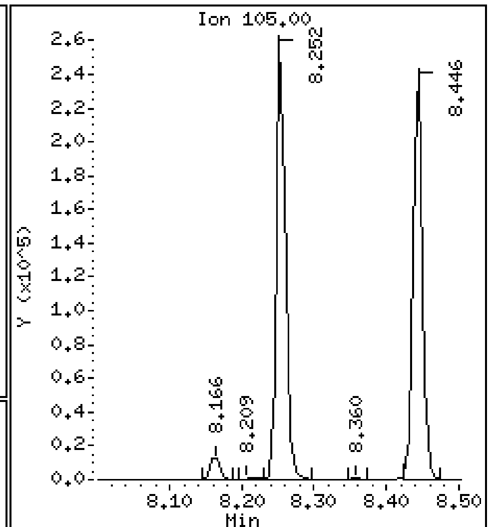
Sample Info: 8260-ICV,336828

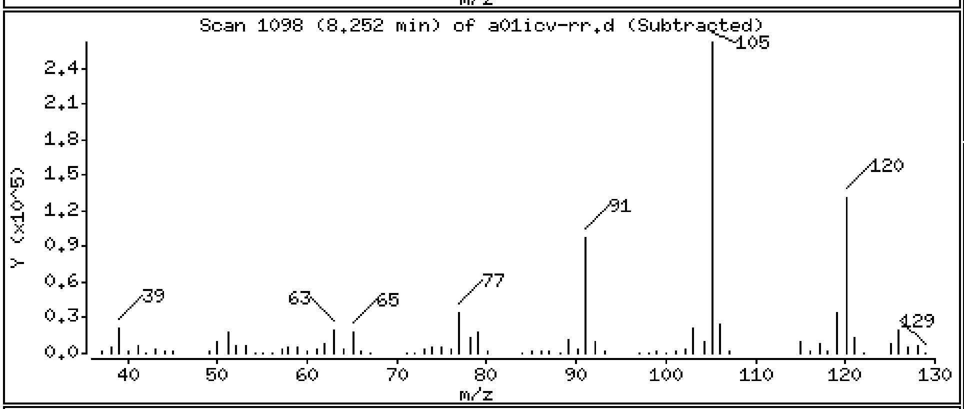
Purge Volume: 5.0 Operator: tkg

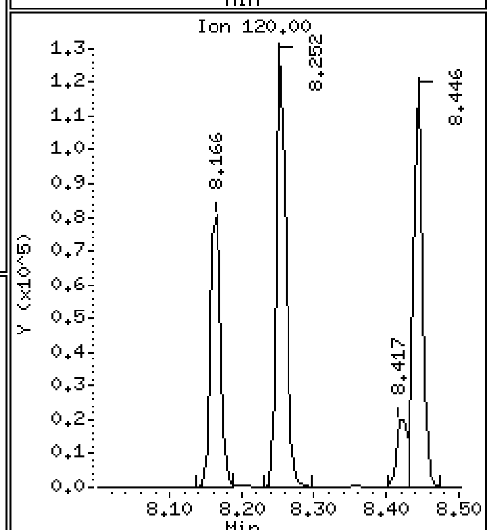
Column phase: DB-624 Column diameter: 0.18

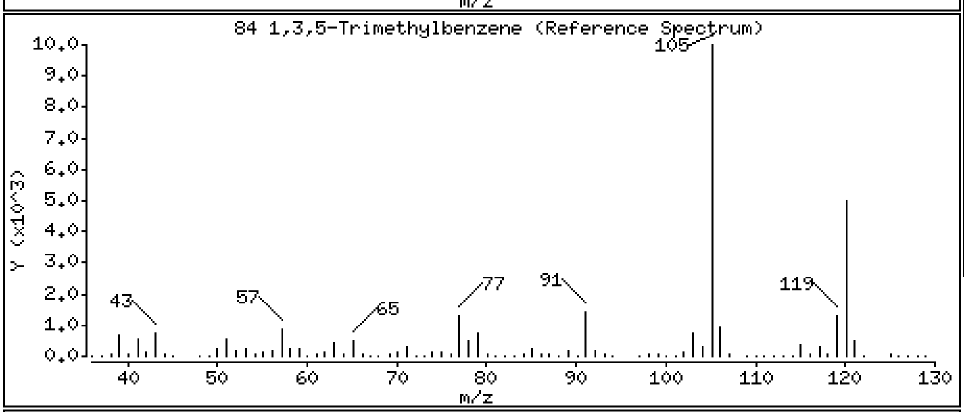
84 1,3,5-Trimethylbenzene Concentration: 50.4 ppb Review Code:

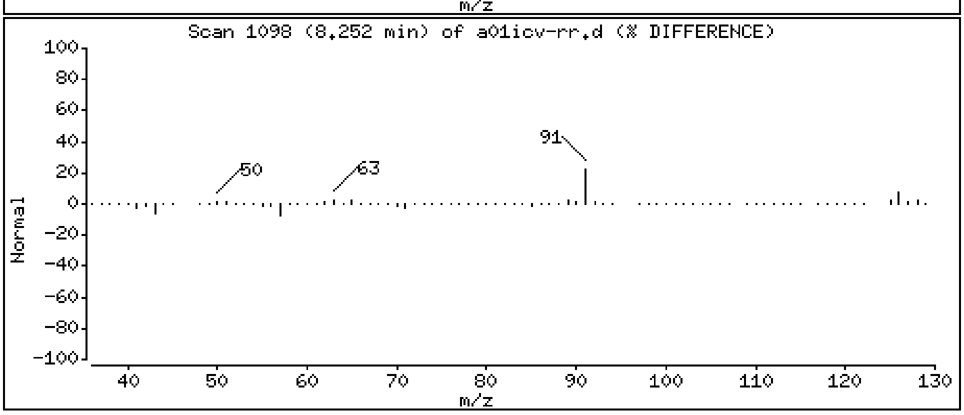












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Date : 26-JAN-2023 09:06

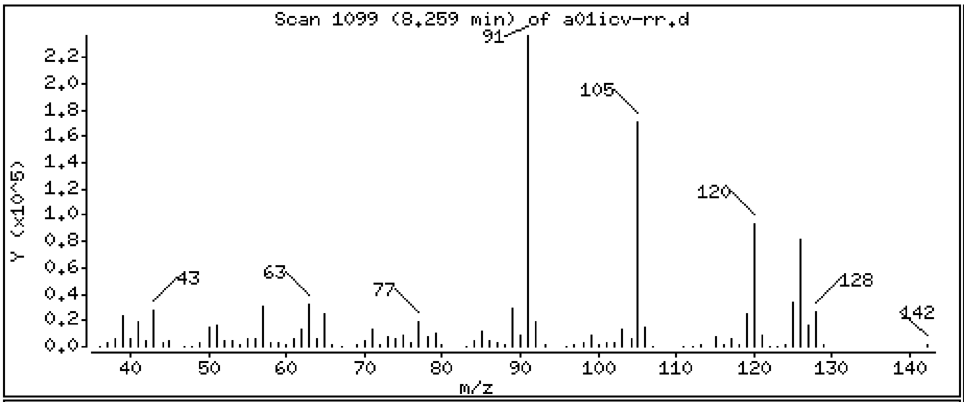
Client ID: Instrument: 50mv2a.i

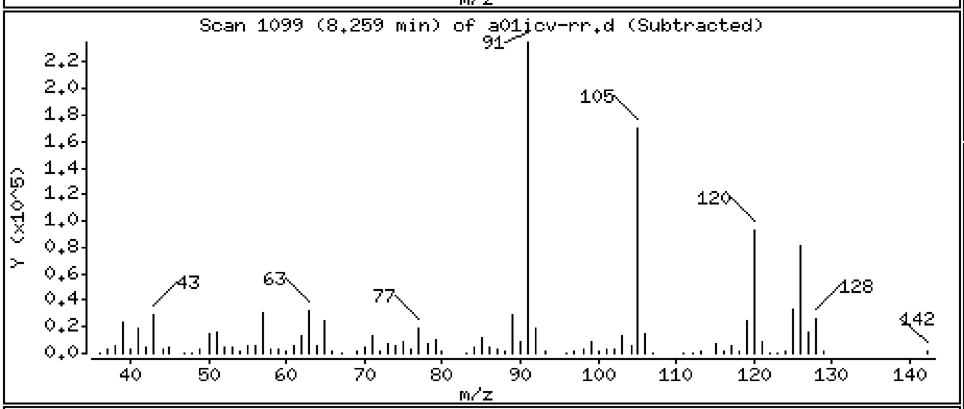
Sample Info: 8260-ICV,336828

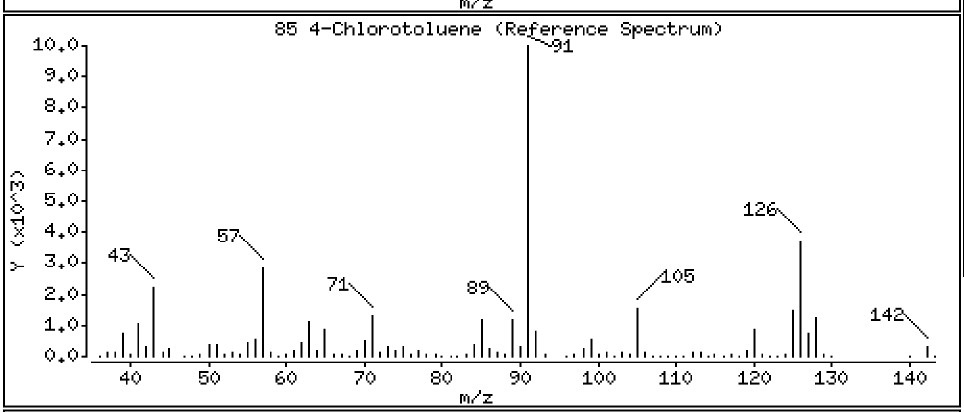
Purge Volume: 5.0 Operator: tkg

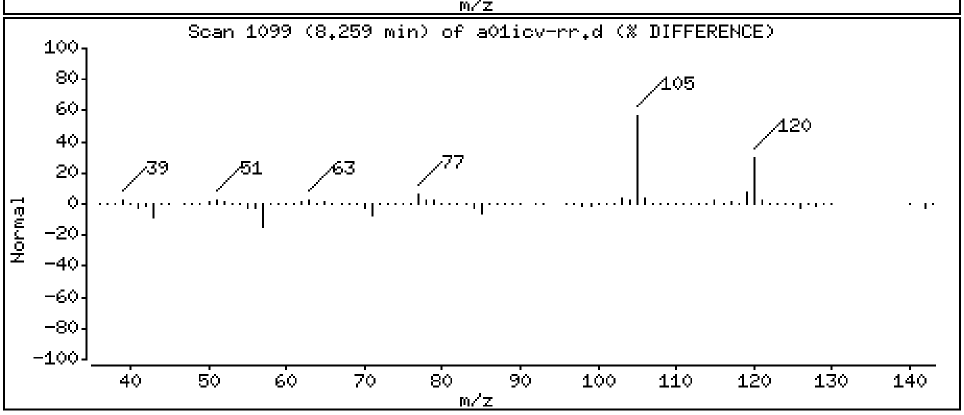
Column phase: DB-624 Column diameter: 0.18

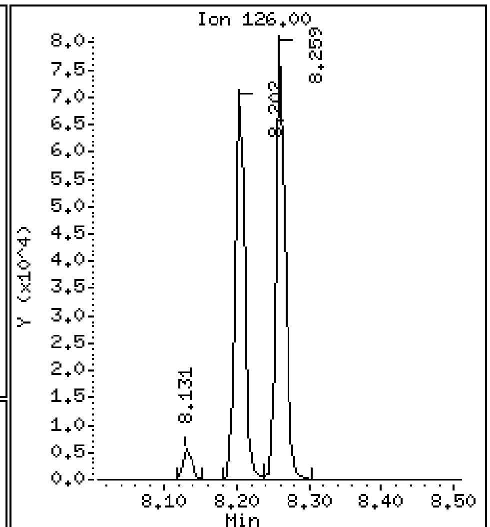
85 4-Chlorotoluene Concentration: 51.8 ppb Review Code:

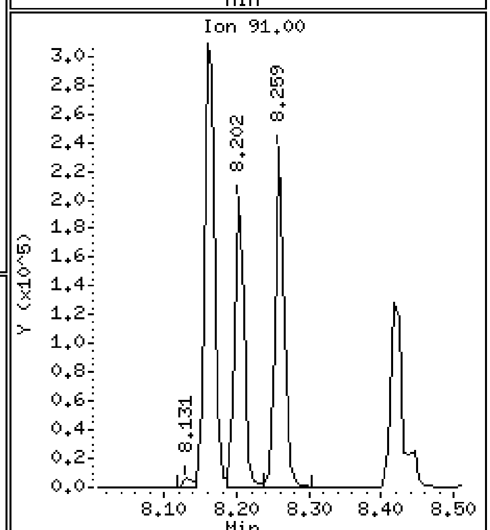












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

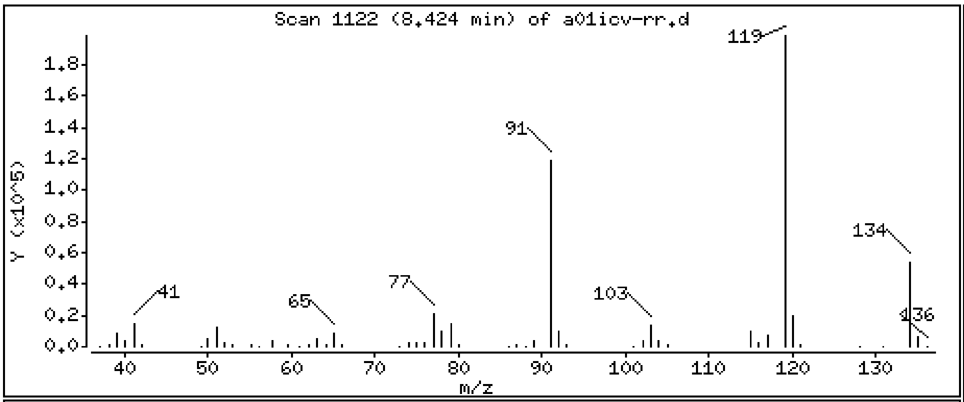
Column phase: DB-624

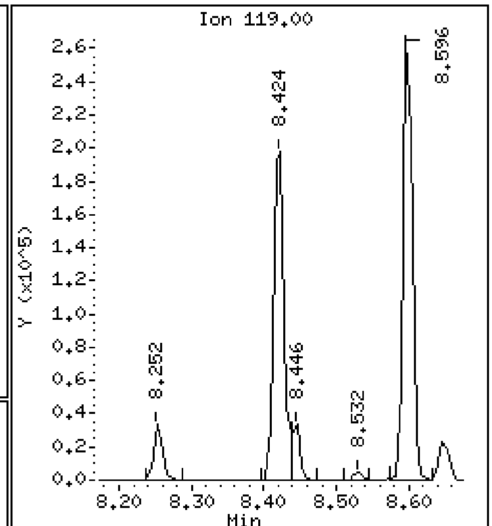
Column diameter: 0.18

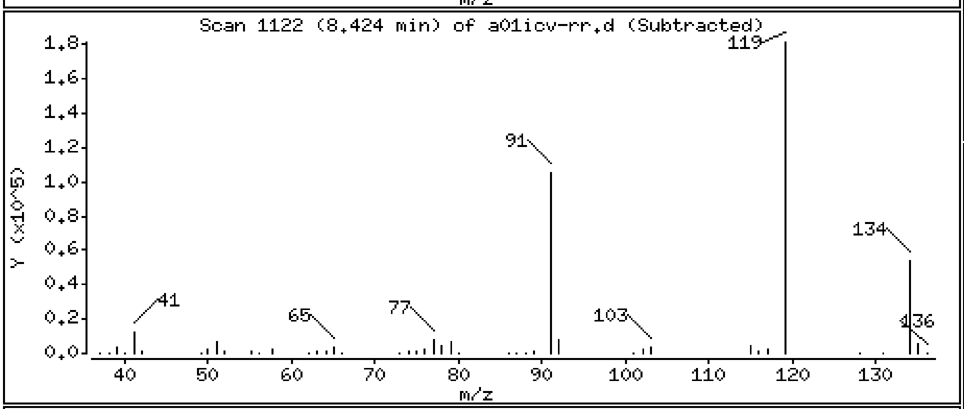
86 tert-Butylbenzene

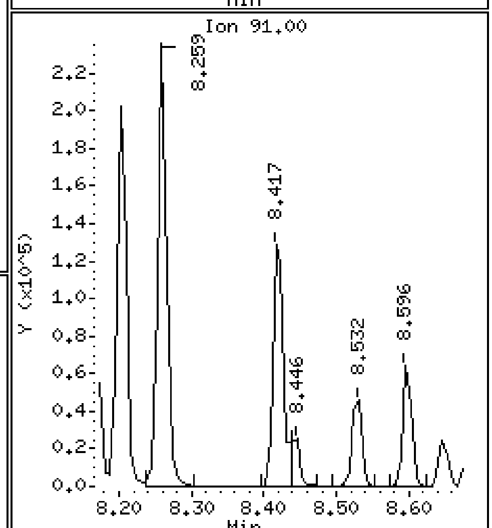
Concentration: 46.1 ppb

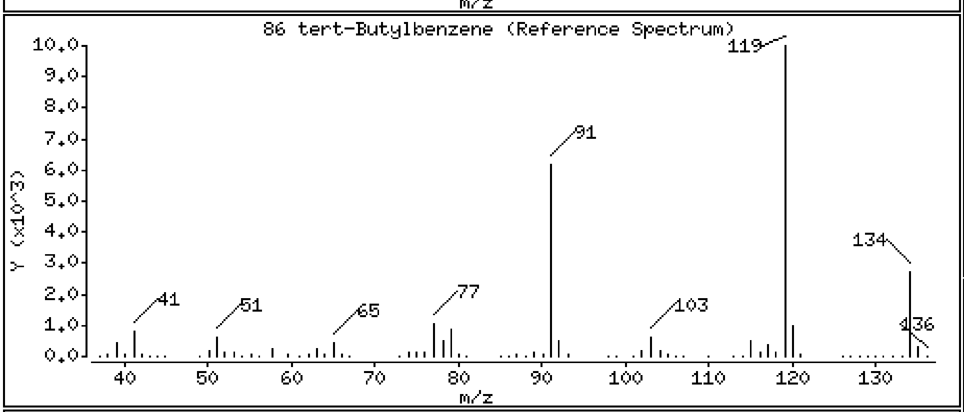
Review Code:

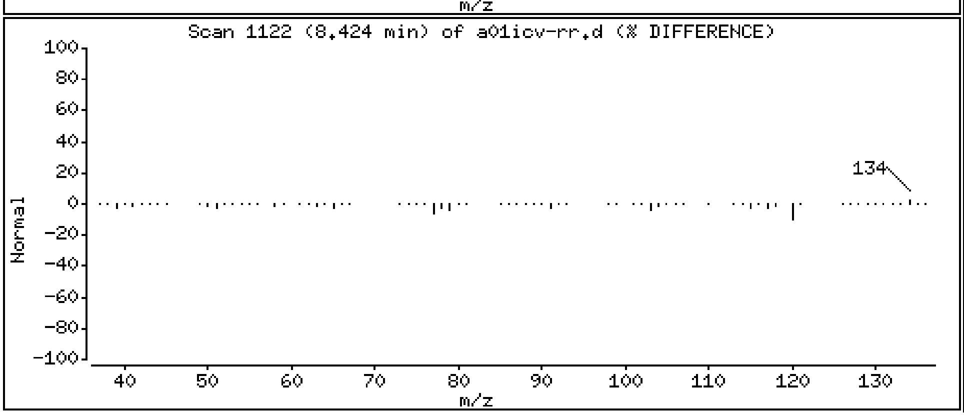


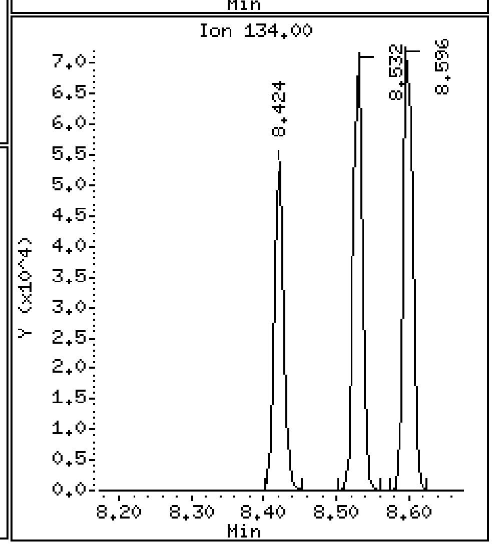












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

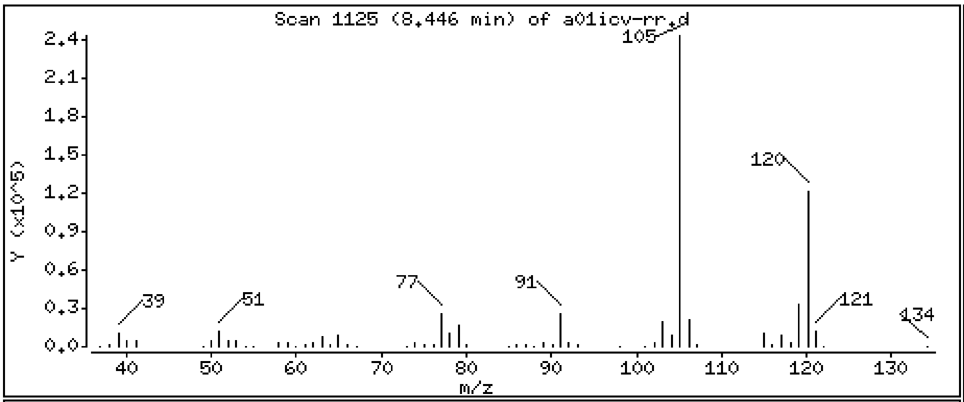
Column phase: DB-624

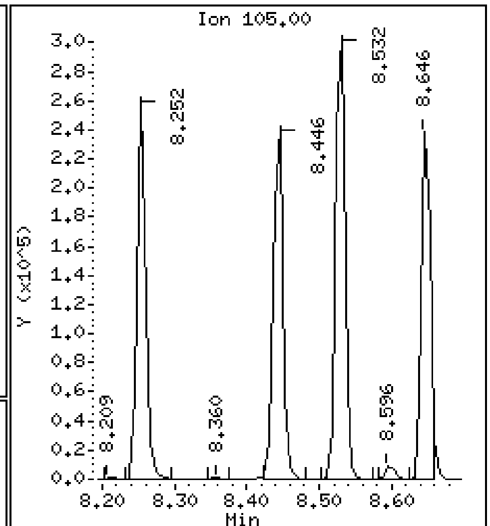
Column diameter: 0.18

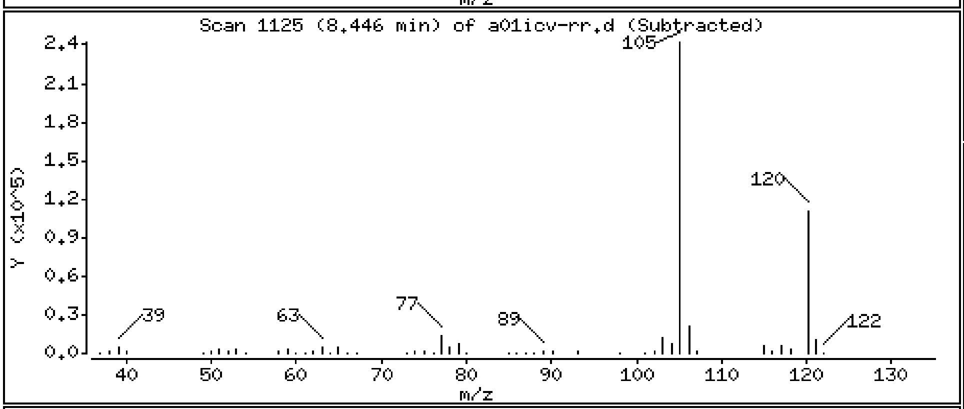
87 1,2,4-Trimethylbenzene

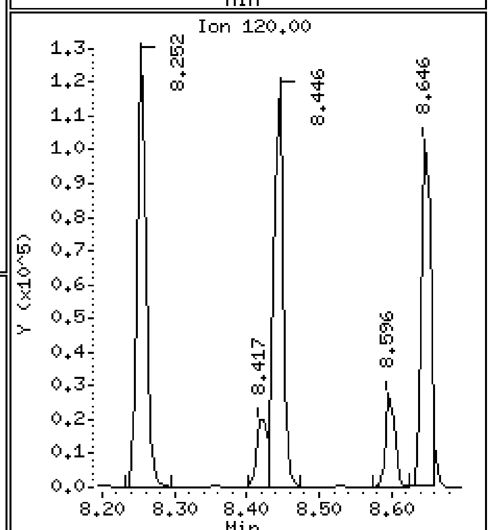
Concentration: 49.3 ppb

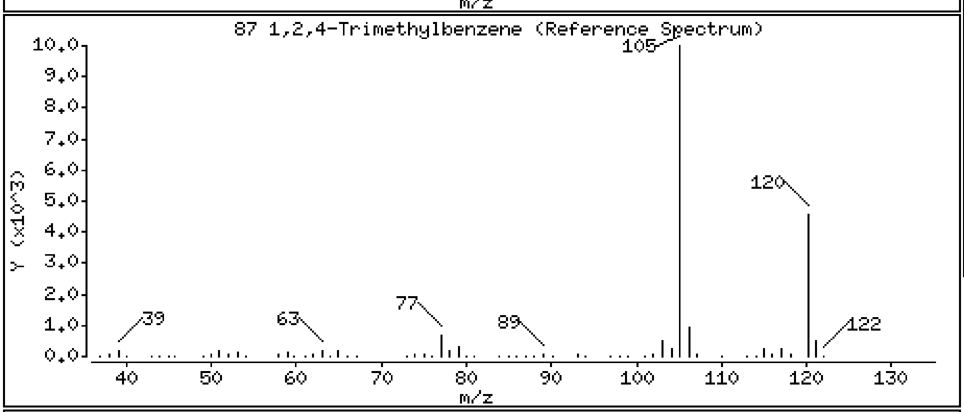
Review Code:

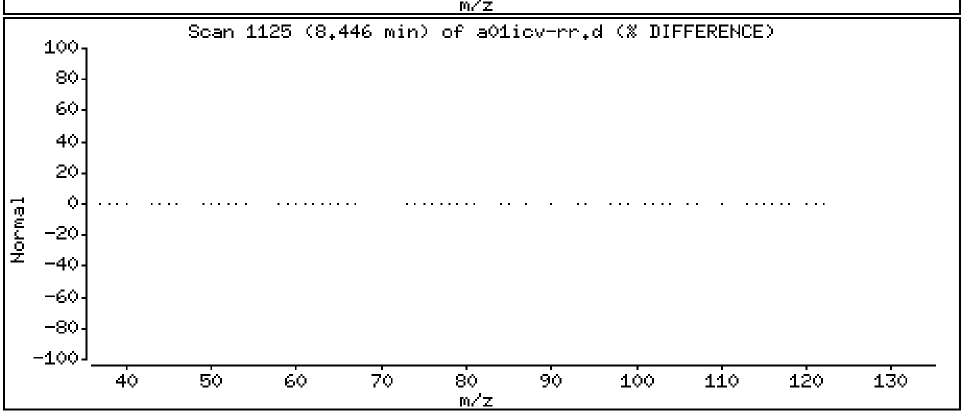












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Date : 26-JAN-2023 09:06

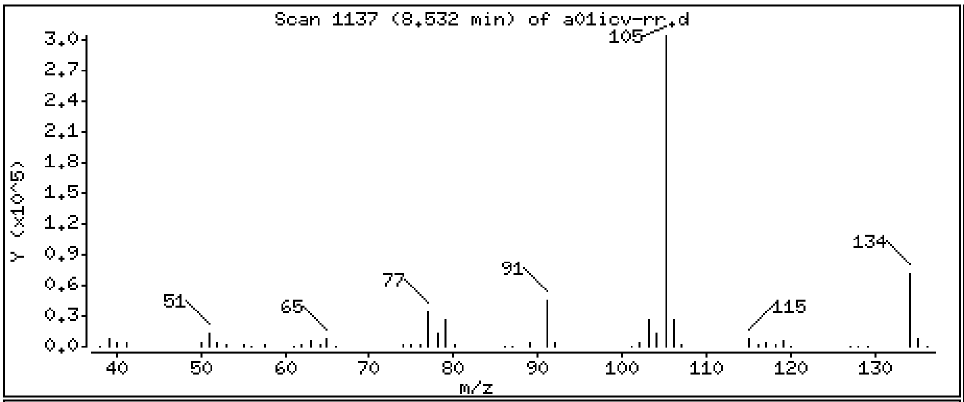
Client ID: Instrument: 50mv2a.i

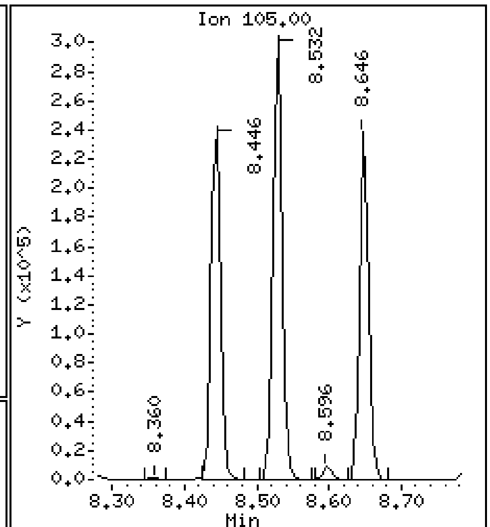
Sample Info: 8260-ICV,336828

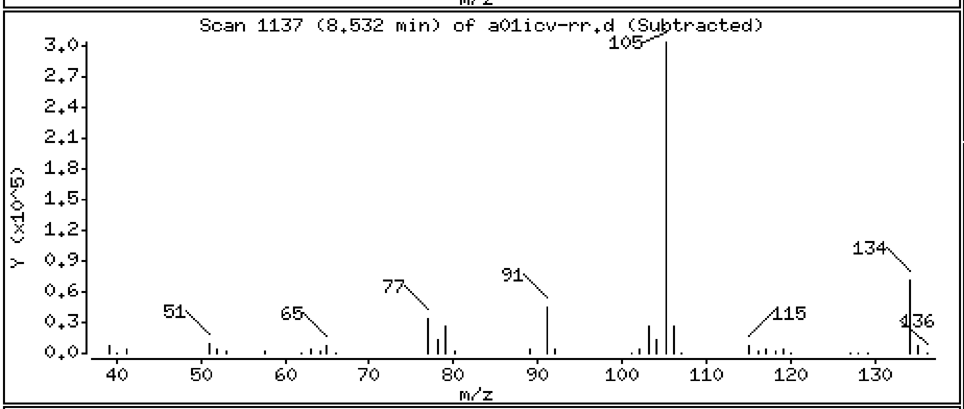
Purge Volume: 5.0 Operator: tkg

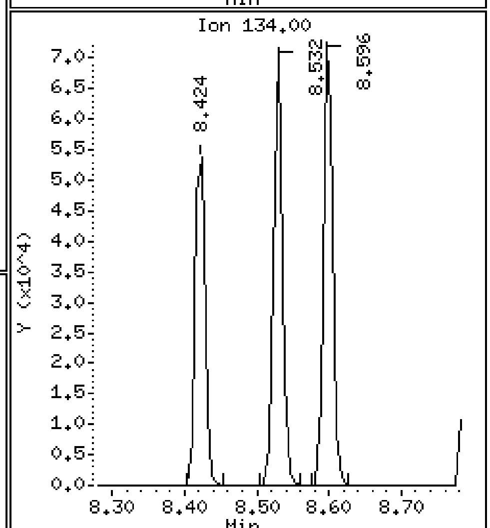
Column phase: DB-624 Column diameter: 0.18

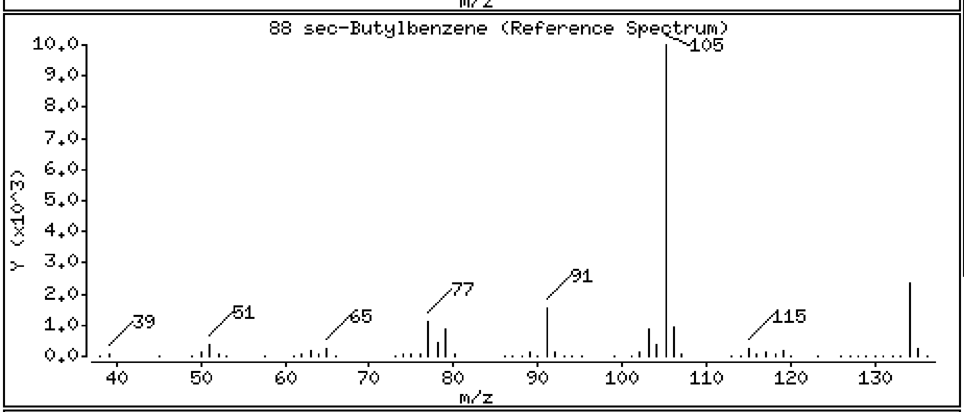
88 sec-Butylbenzene Concentration: 50.8 ppb Review Code:

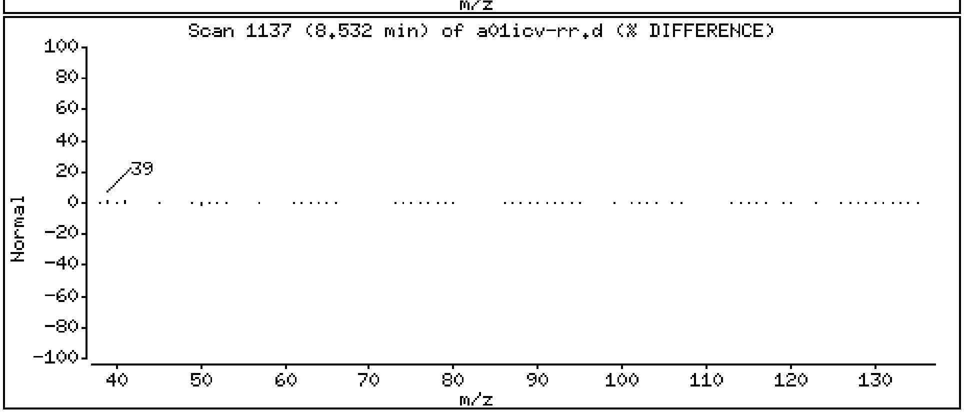












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

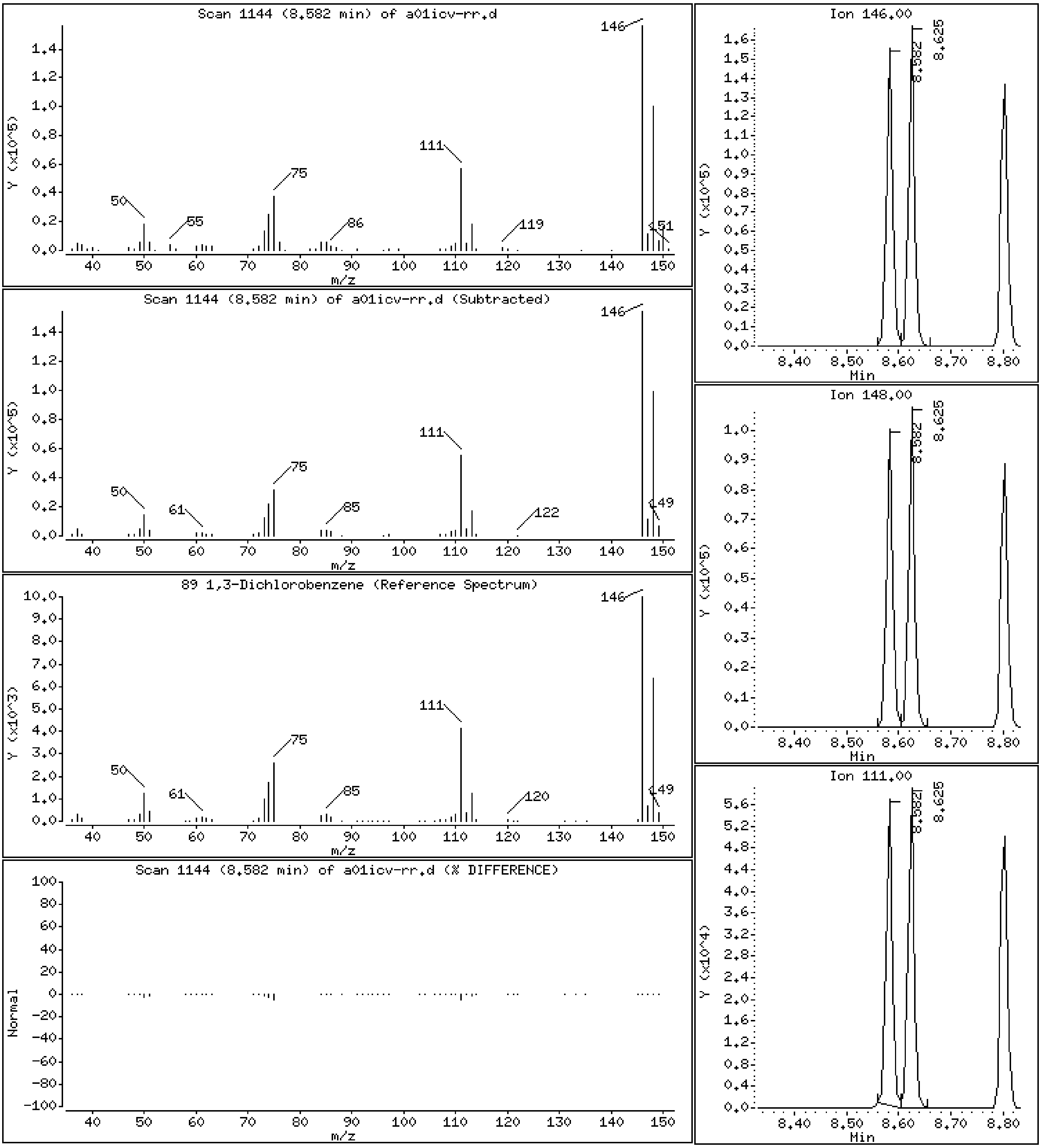
Column phase: DB-624

Column diameter: 0.18

89 1,3-Dichlorobenzene

Concentration: 49.3 ppb

Review Code:



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Date : 26-JAN-2023 09:06

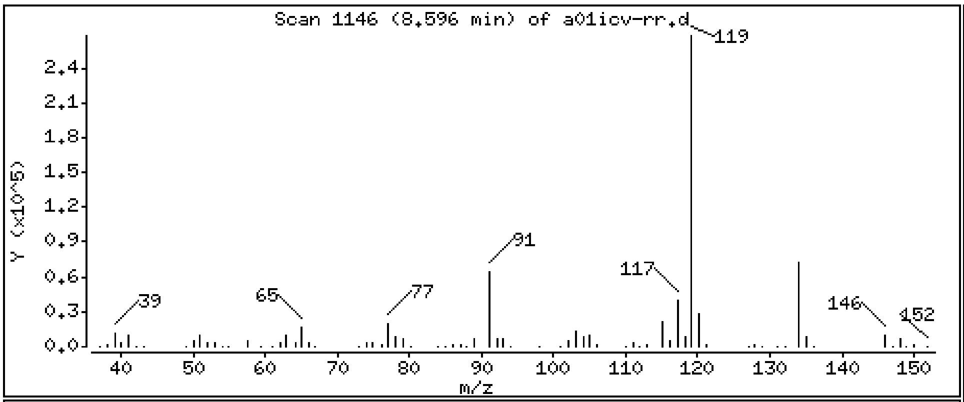
Client ID: Instrument: 50mv2a.i

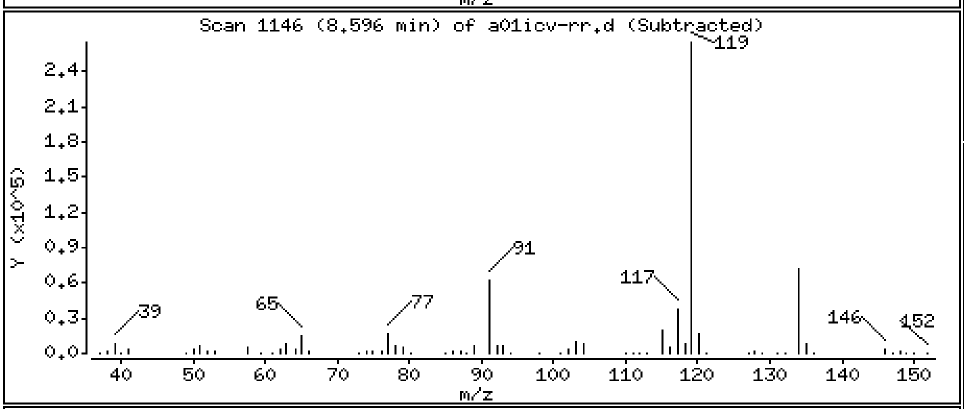
Sample Info: 8260-ICV,336828

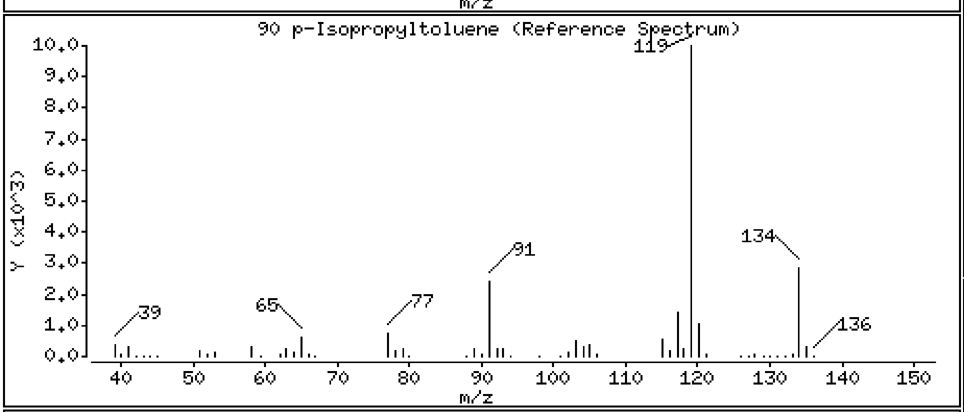
Purge Volume: 5.0 Operator: tkg

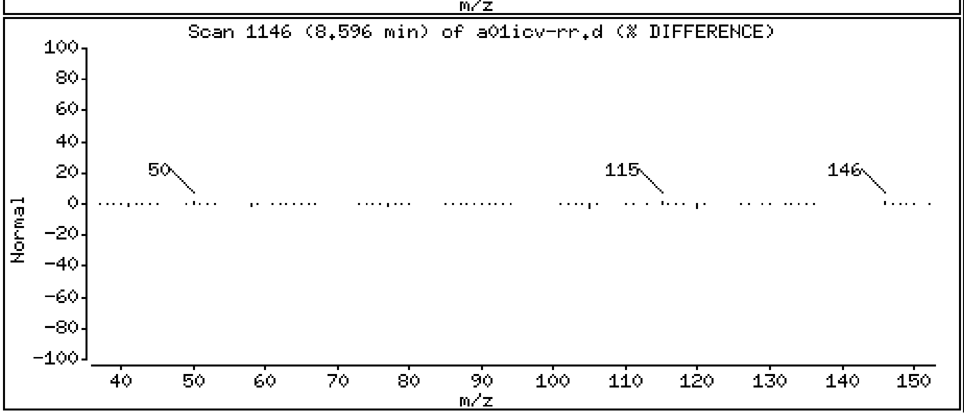
Column phase: DB-624 Column diameter: 0.18

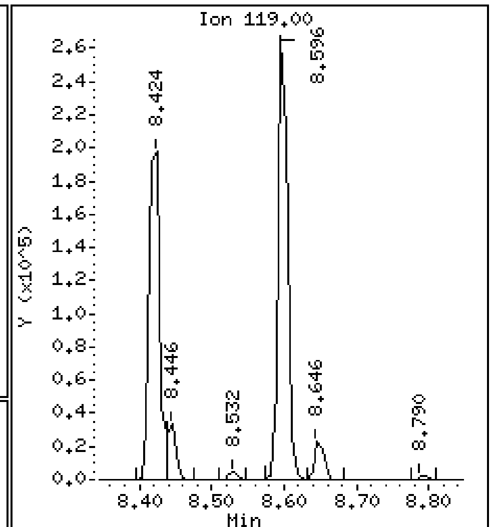
90 p-Isopropyltoluene Concentration: 49.6 ppb Review Code:

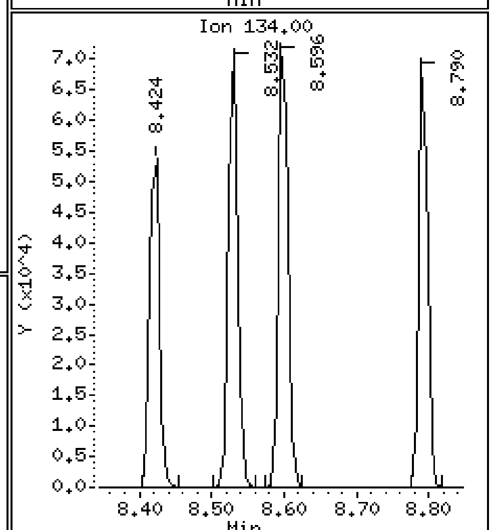


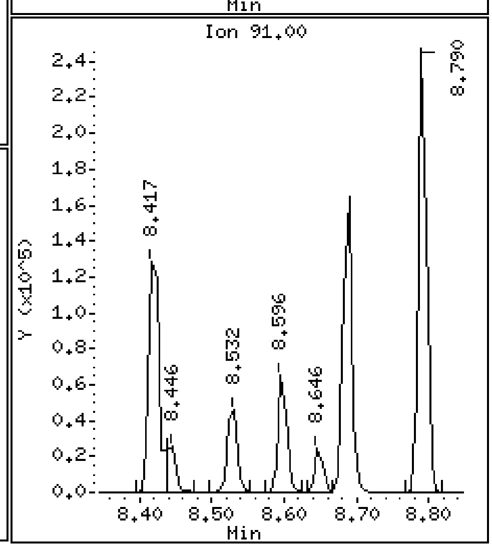












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

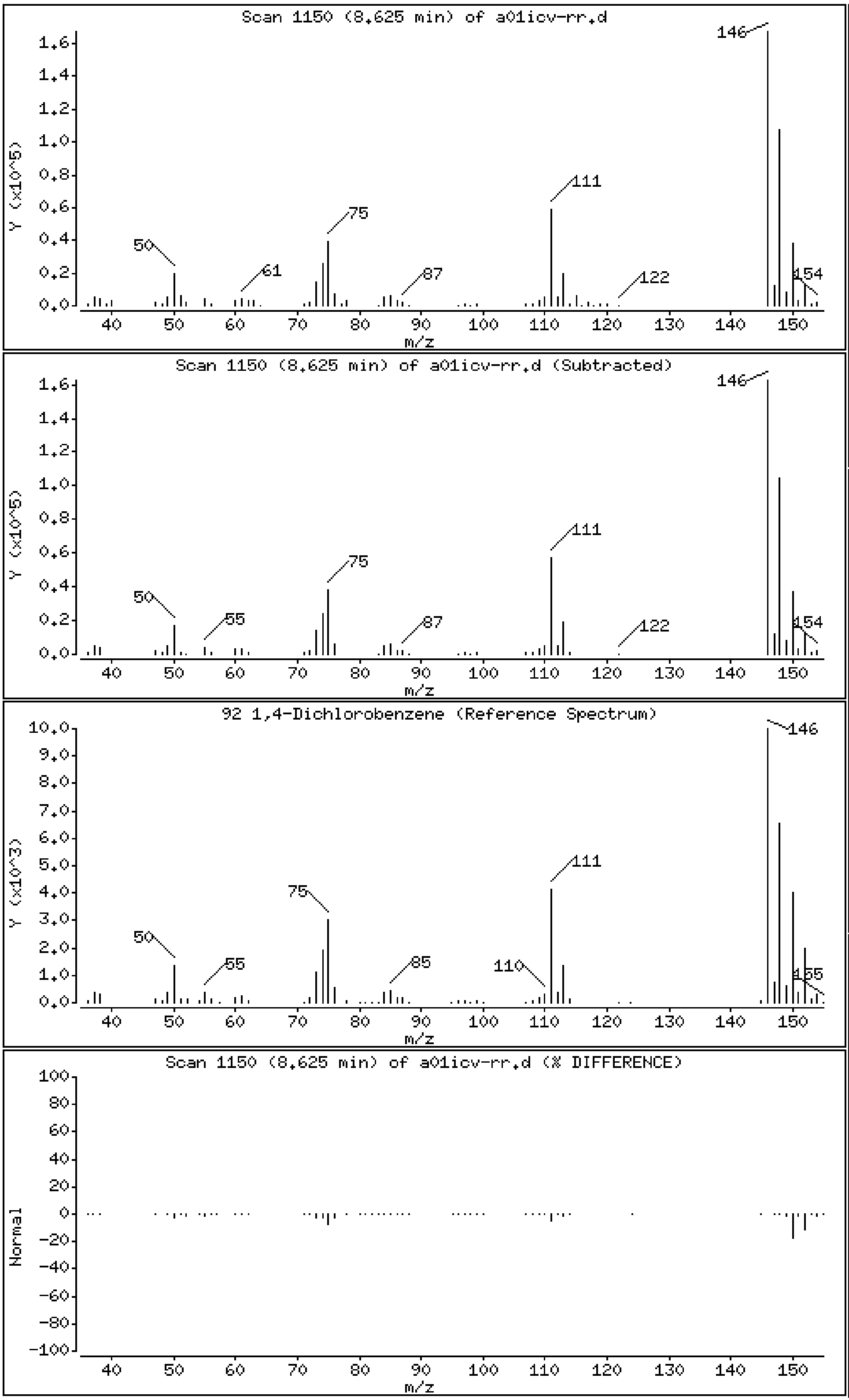
Column phase: DB-624

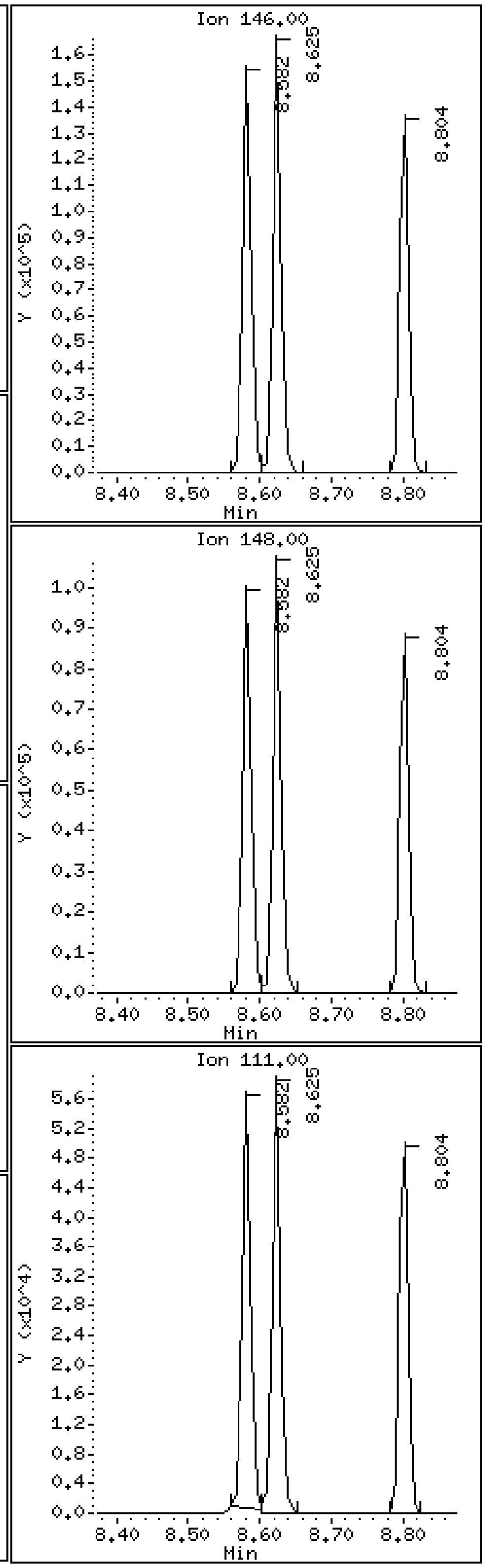
Column diameter: 0.18

92 1,4-Dichlorobenzene

Concentration: 51.3 ppb

Review Code:





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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

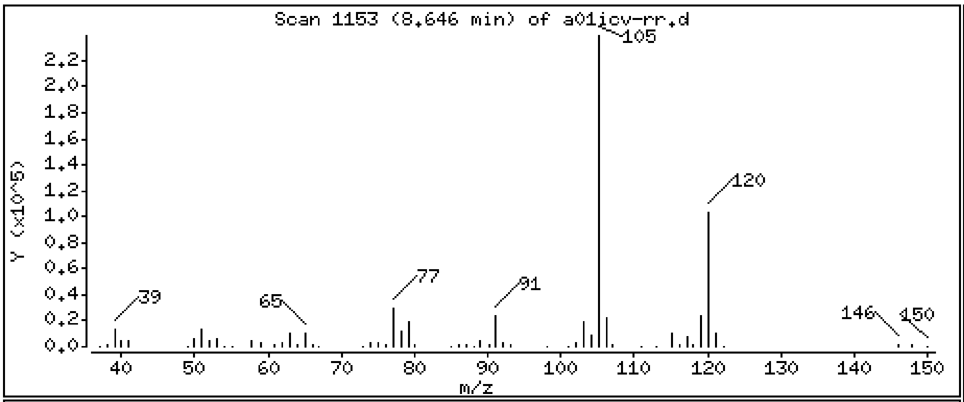
Column phase: DB-624

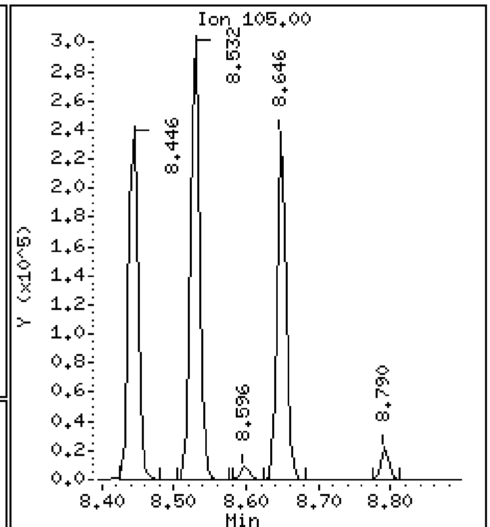
Column diameter: 0.18

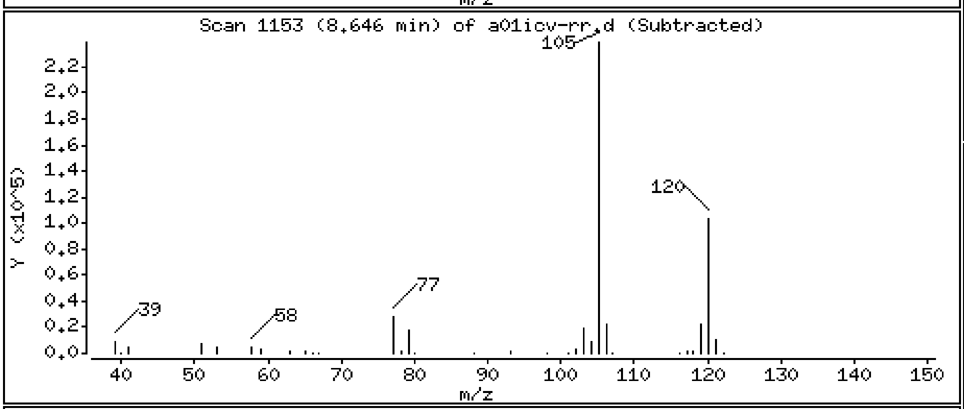
93 1,2,3-Trimethylbenzene

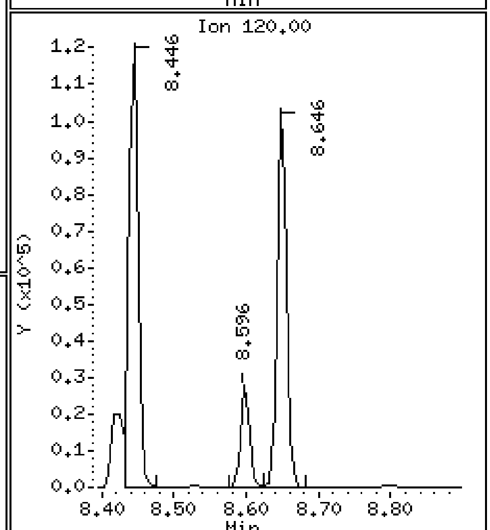
Concentration: 49.8 ppb

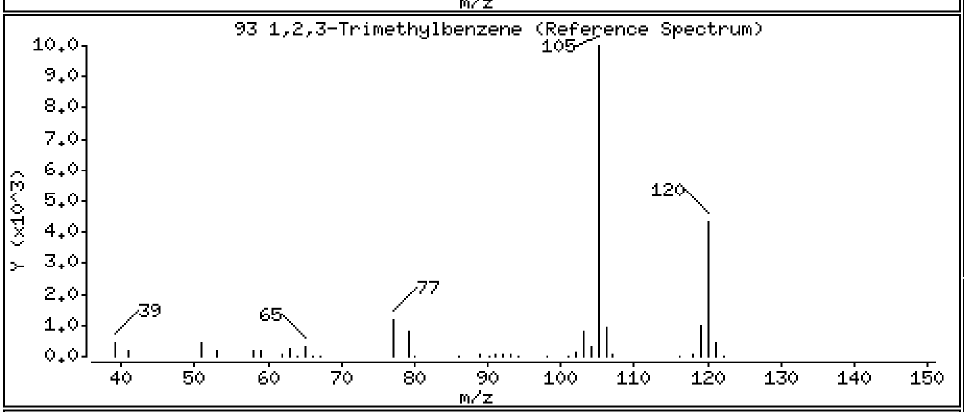
Review Code:

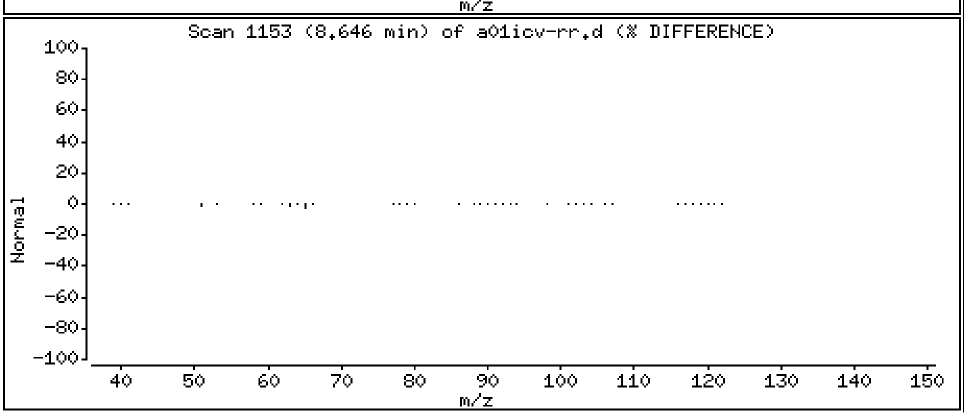


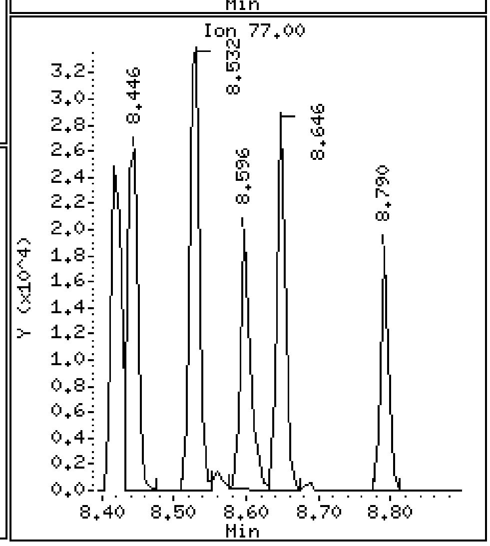












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Date : 26-JAN-2023 09:06

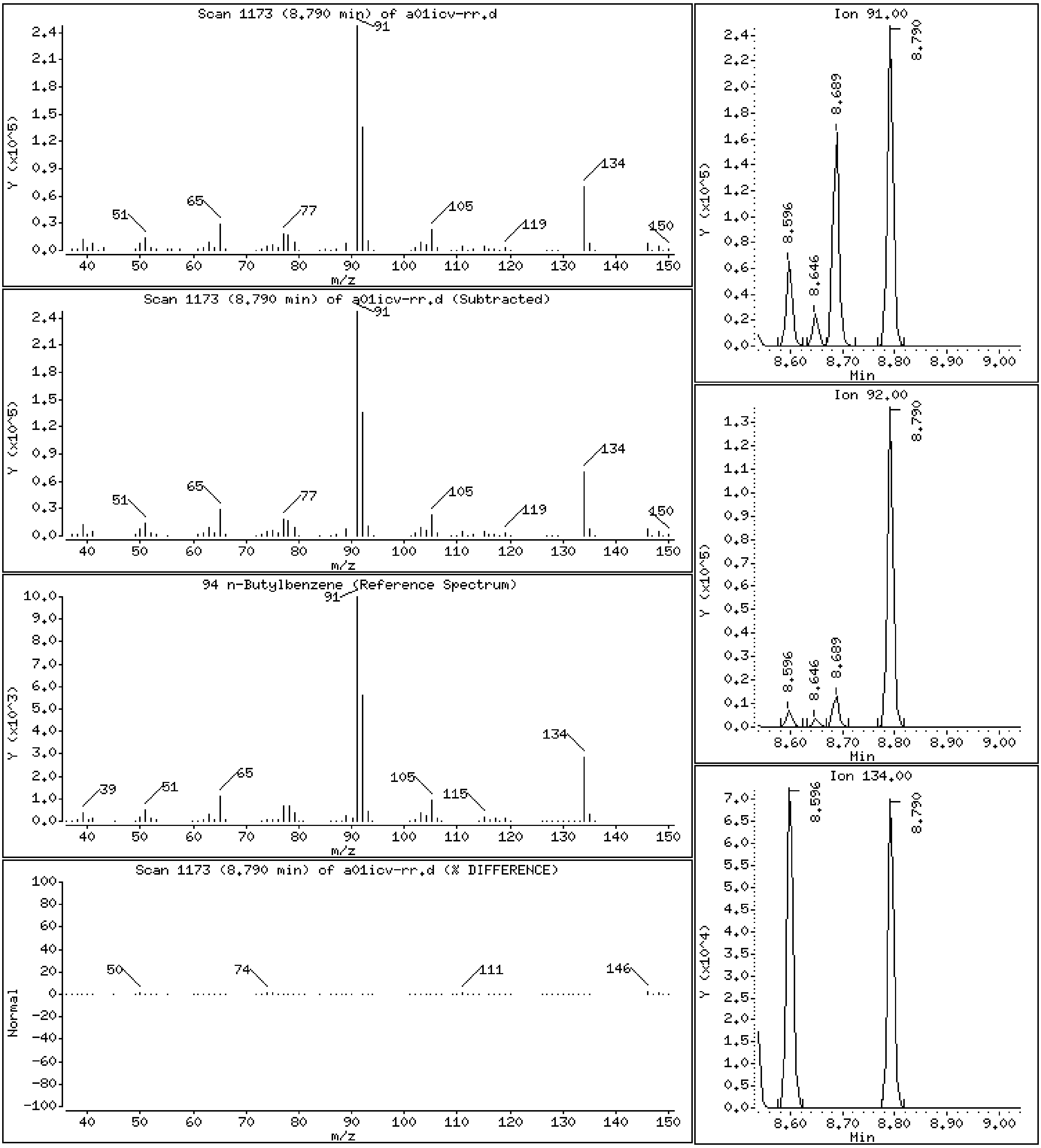
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

94 n-Butylbenzene Concentration: 51.2 ppb Review Code:



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Date : 26-JAN-2023 09:06

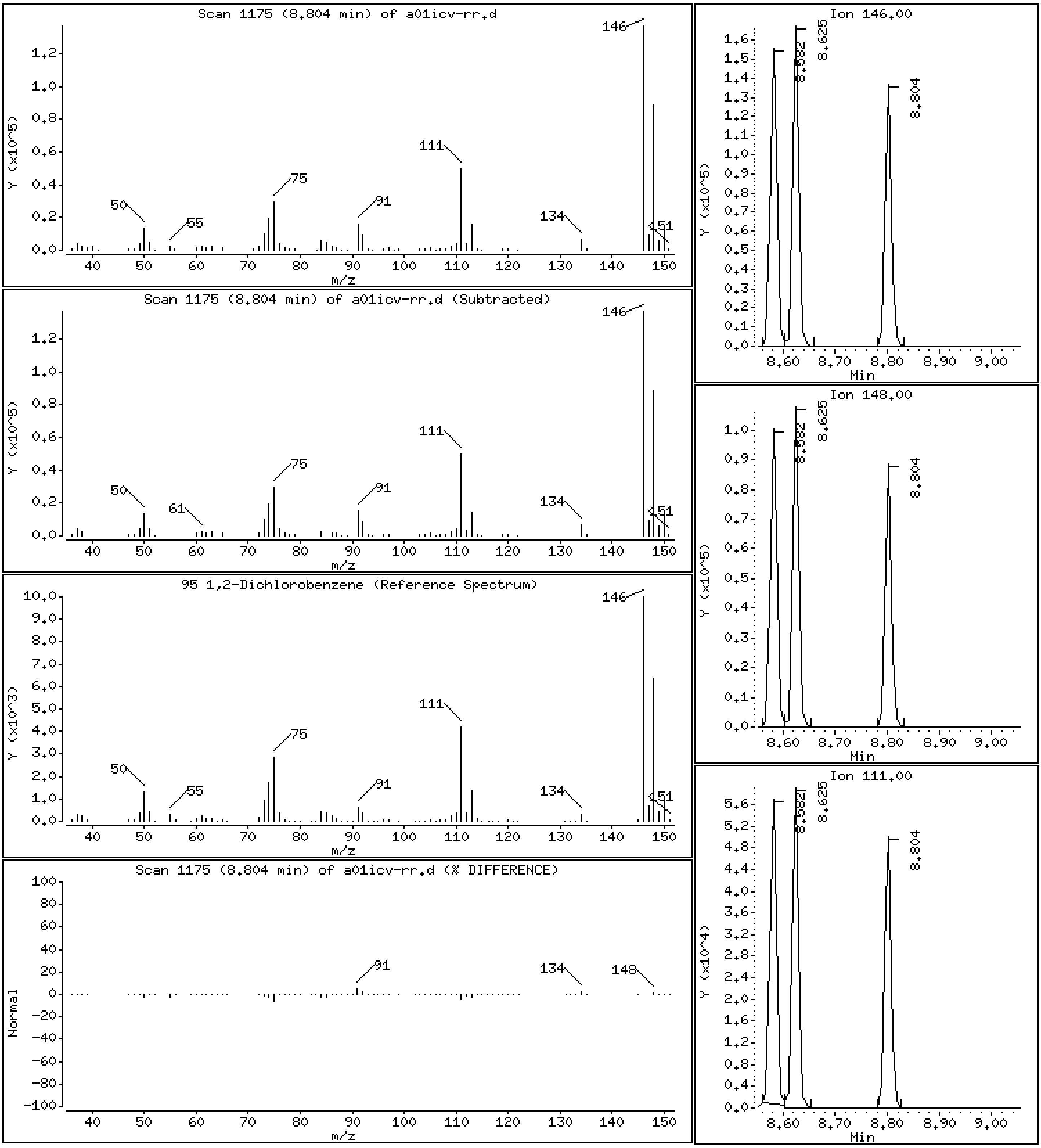
Client ID: Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

95 1,2-Dichlorobenzene Concentration: 50.3 ppb Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

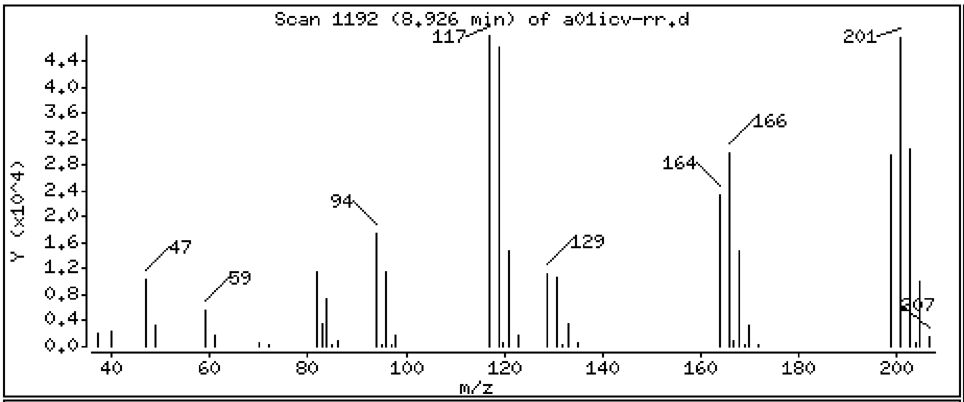
Column phase: DB-624

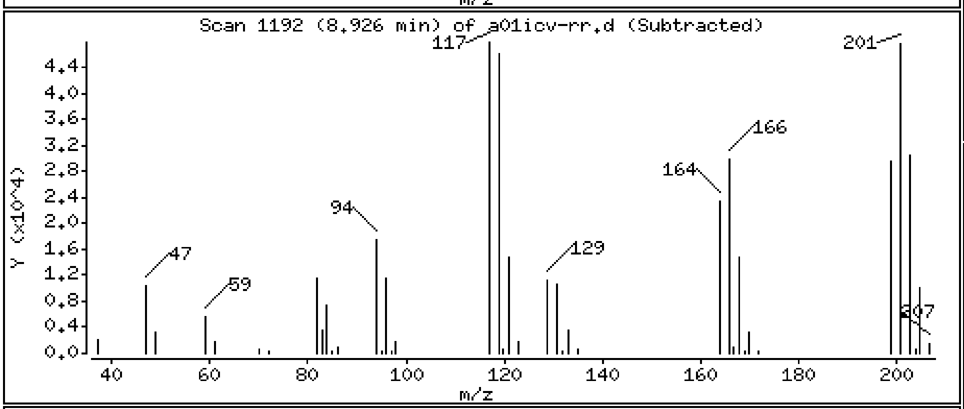
Column diameter: 0.18

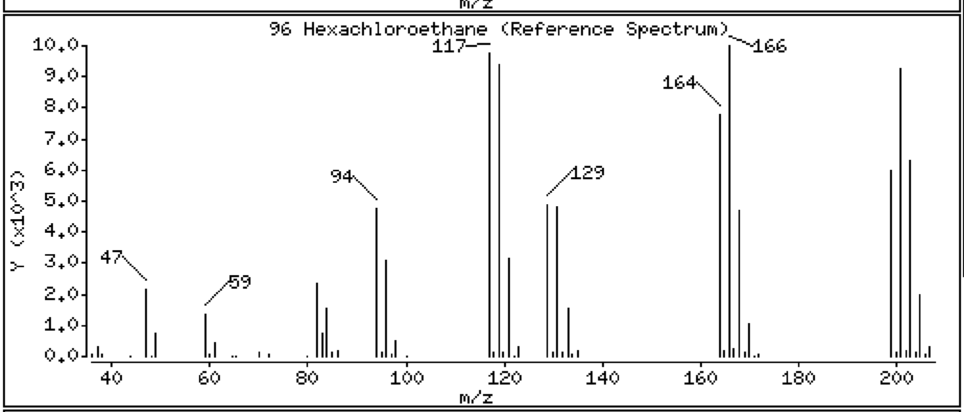
96 Hexachloroethane

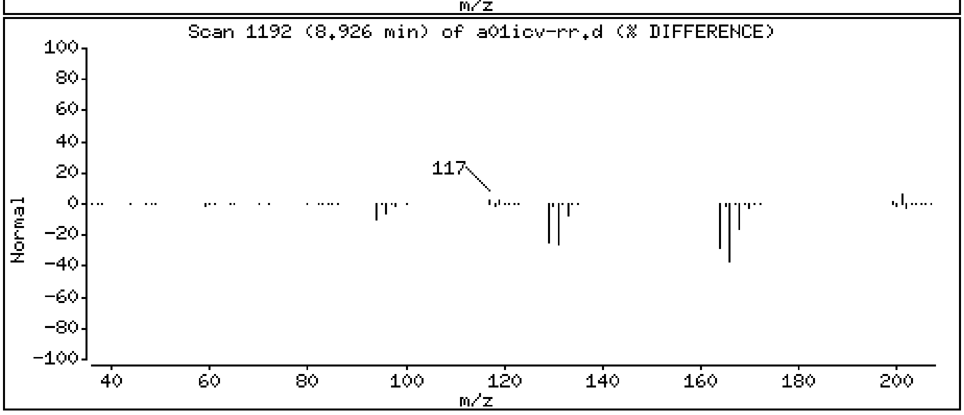
Concentration: 55.0 ppb

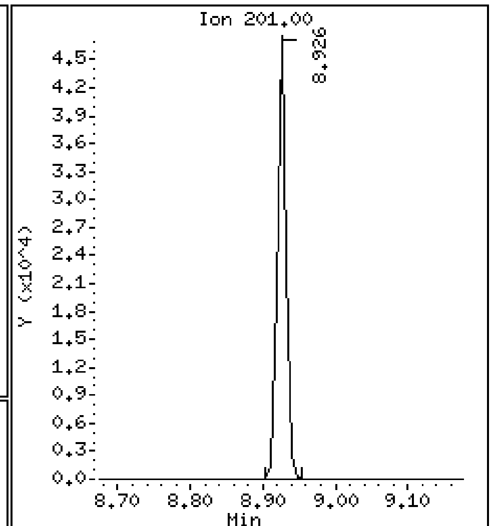
Review Code:

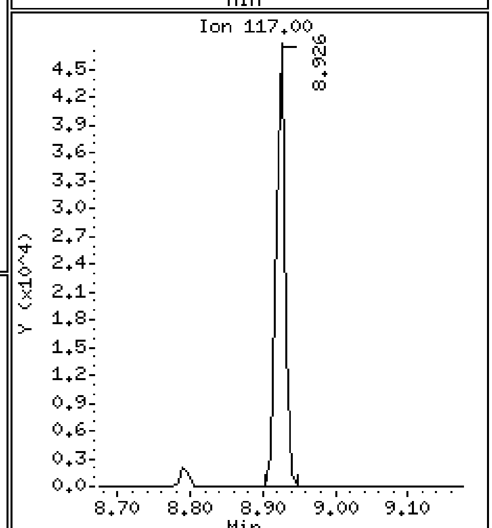












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

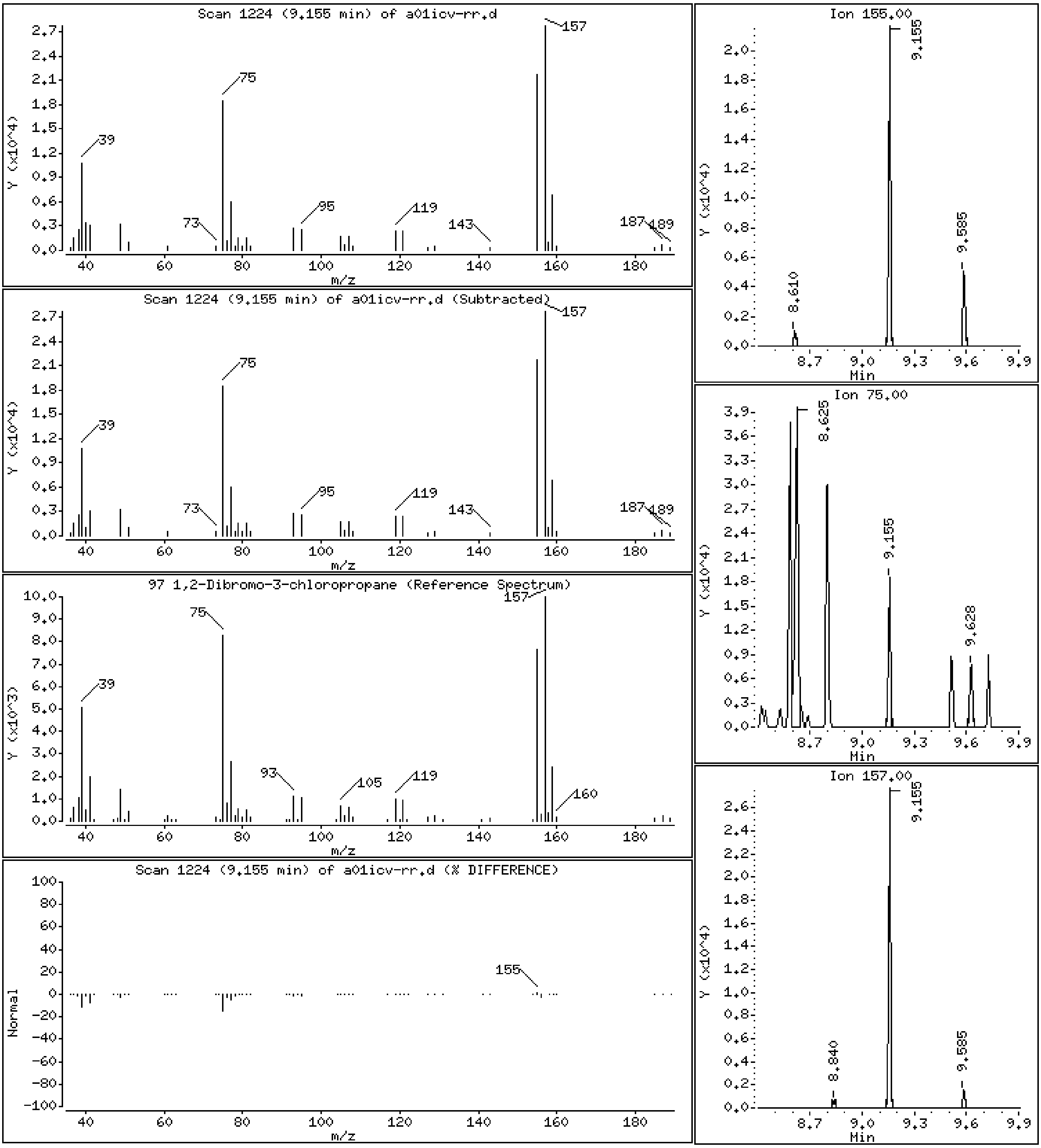
Column phase: DB-624

Column diameter: 0.18

97 1,2-Dibromo-3-chloropropane

Concentration: 48.7 ppb

Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

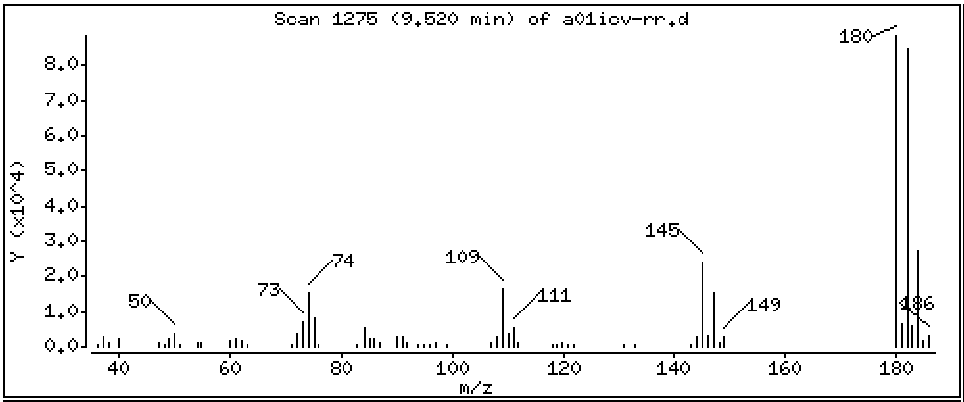
Column phase: DB-624

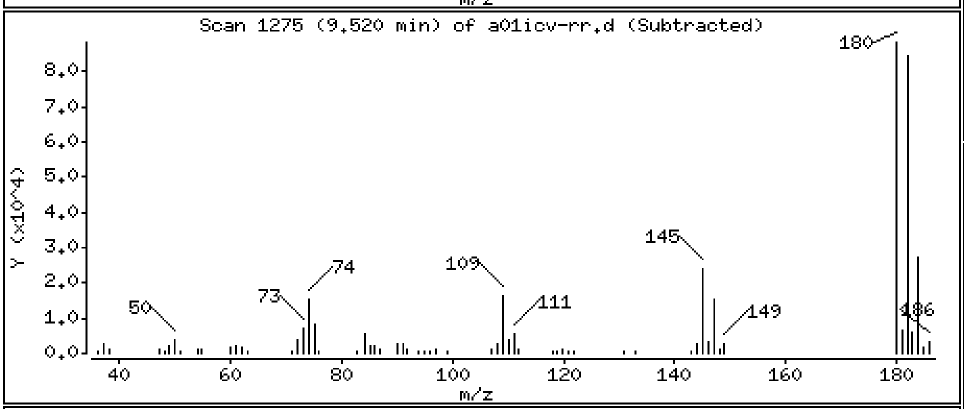
Column diameter: 0.18

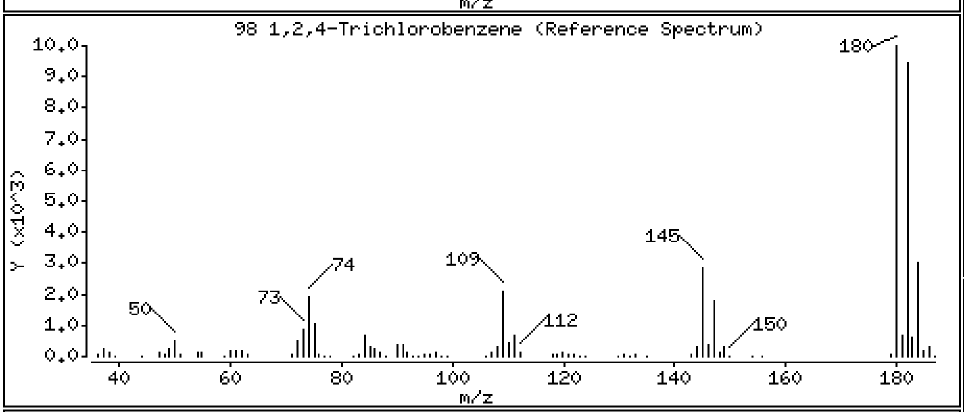
98 1,2,4-Trichlorobenzene

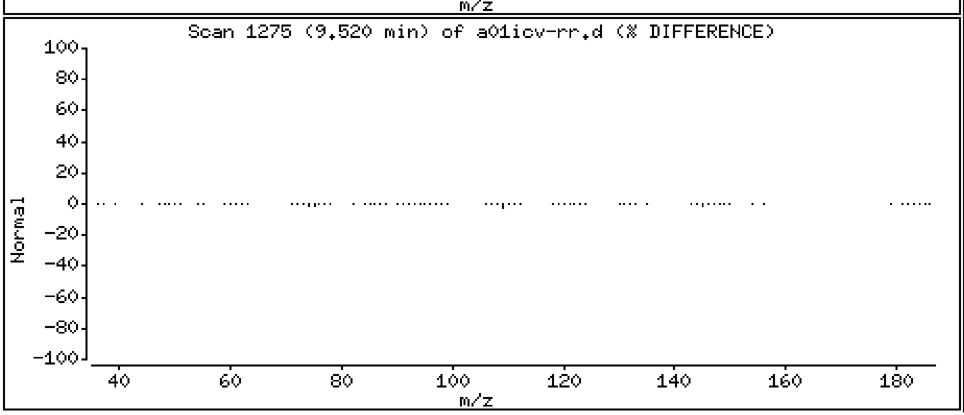
Concentration: 49.4 ppb

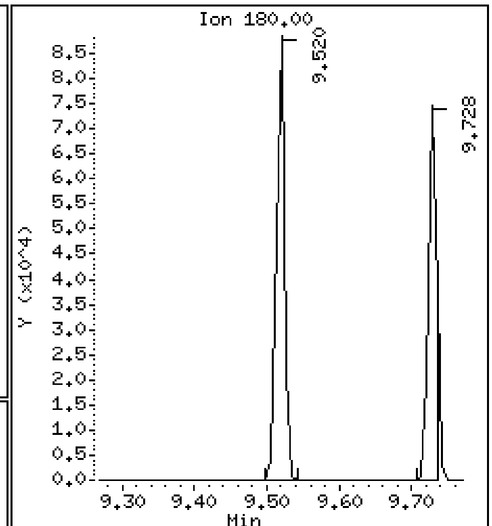
Review Code:

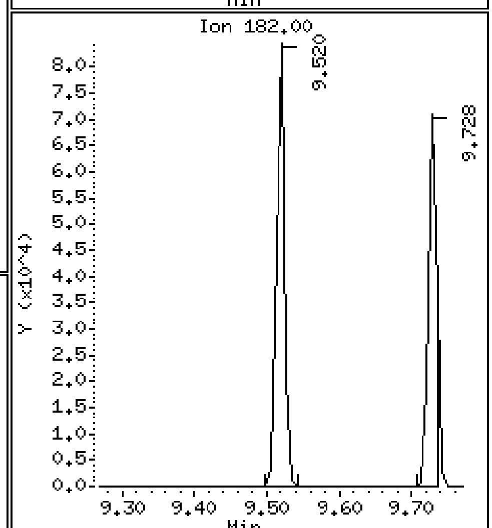


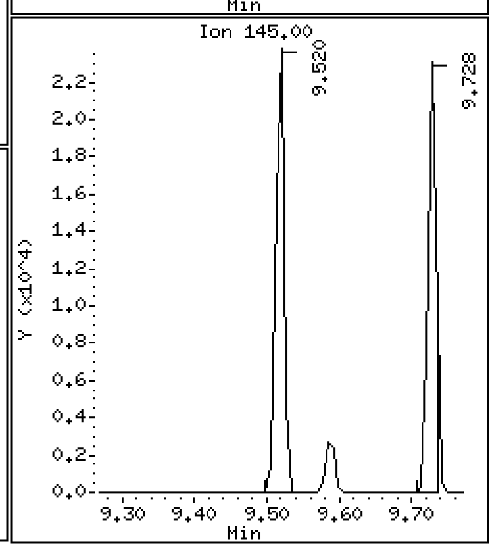












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Date : 26-JAN-2023 09:06

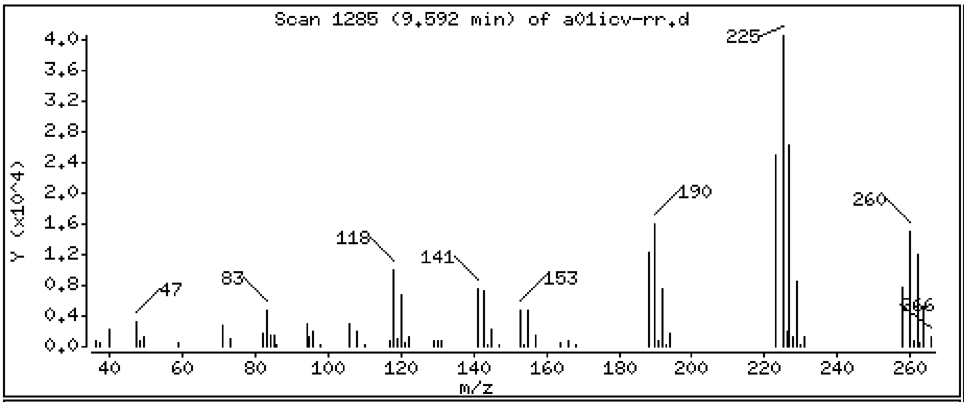
Client ID: Instrument: 50mv2a.i

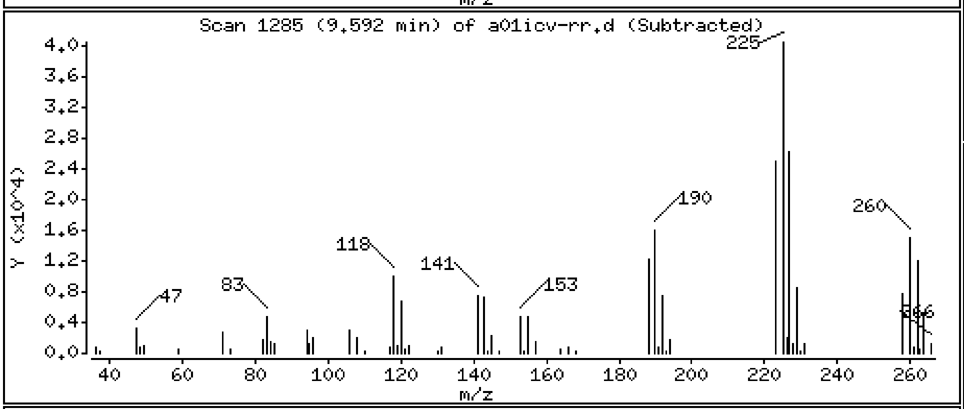
Sample Info: 8260-ICV,336828

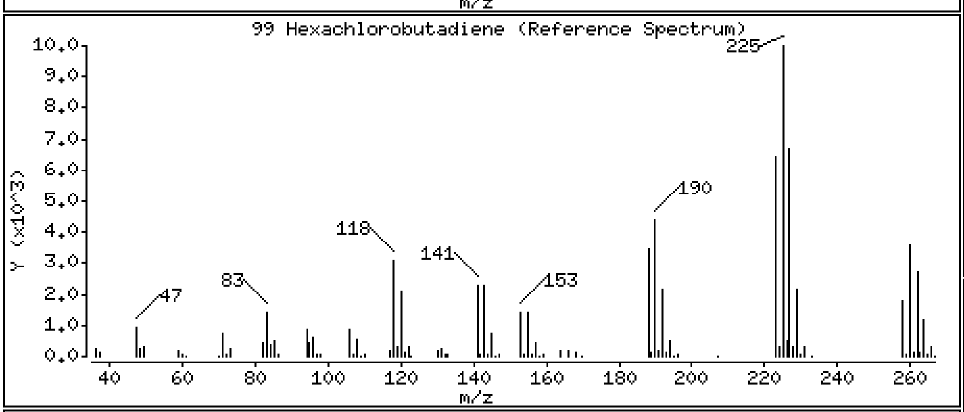
Purge Volume: 5.0 Operator: tkg

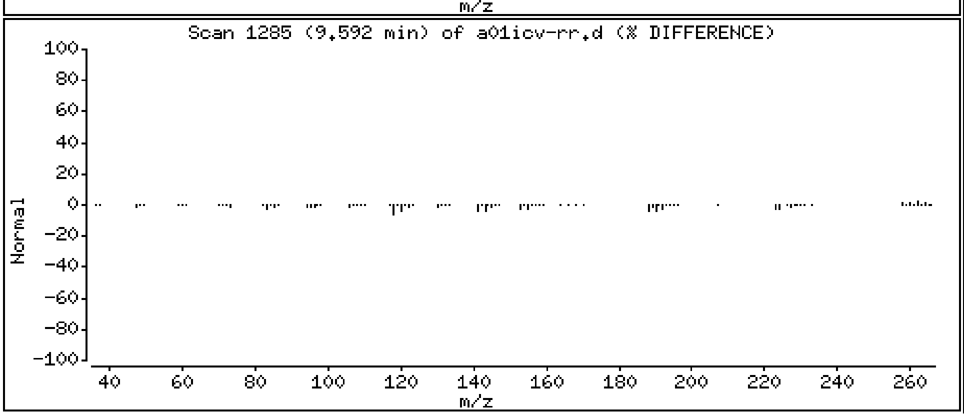
Column phase: DB-624 Column diameter: 0.18

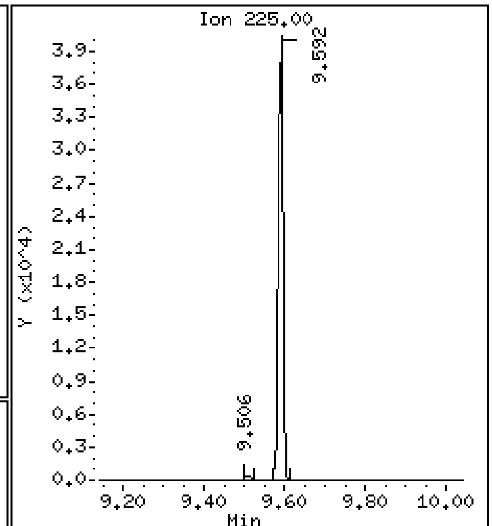
99 Hexachlorobutadiene Concentration: 52.0 ppb Review Code:

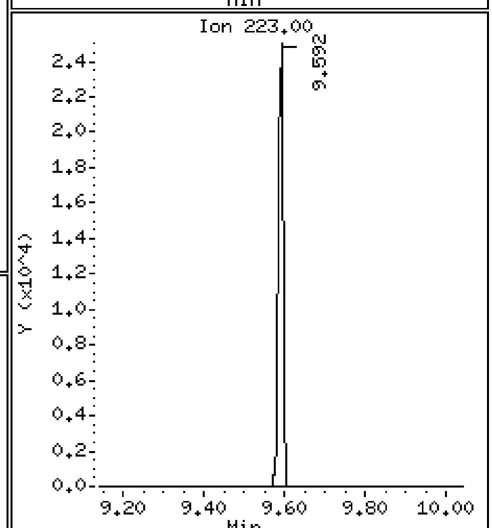


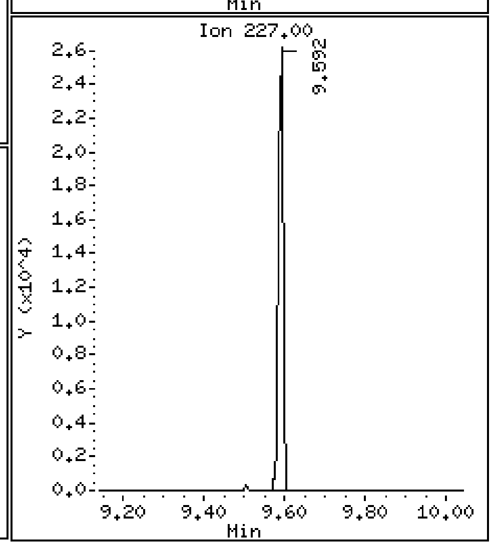












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

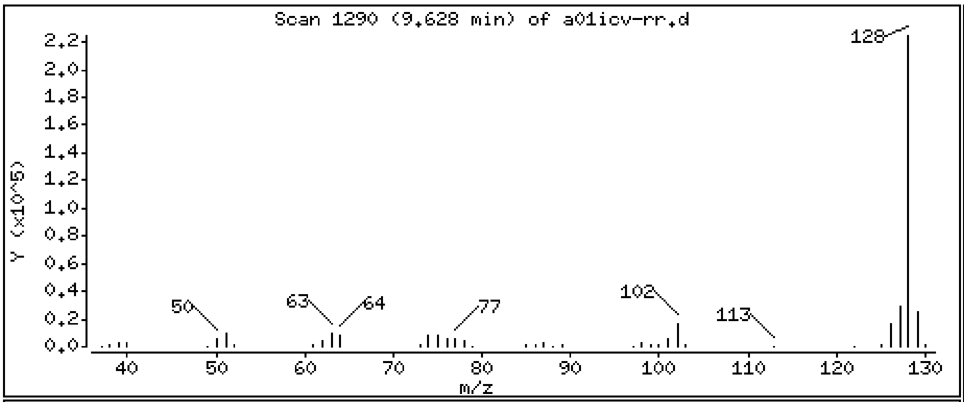
Column phase: DB-624

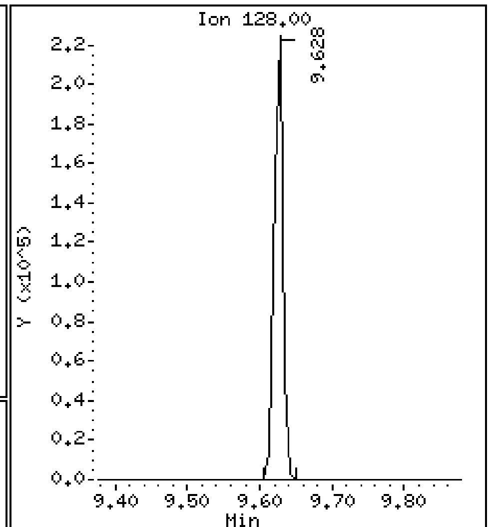
Column diameter: 0.18

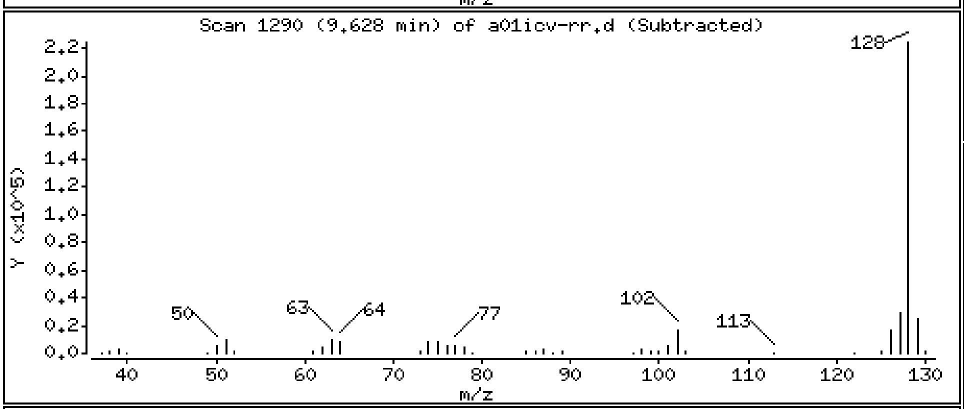
100 Naphthalene

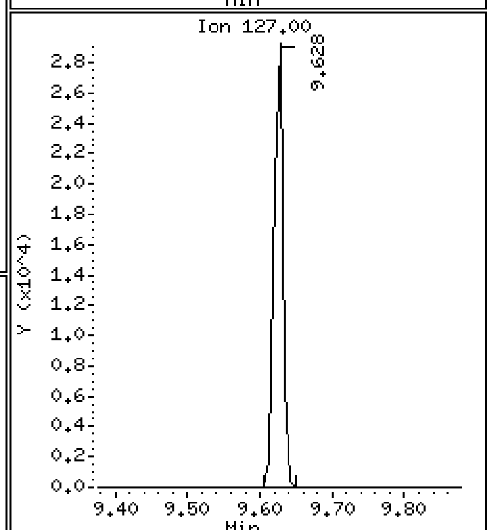
Concentration: 51.8 ppb

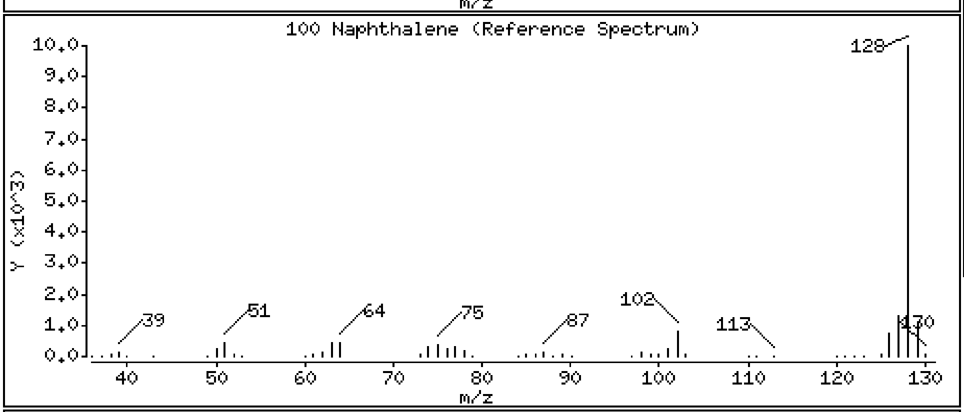
Review Code:

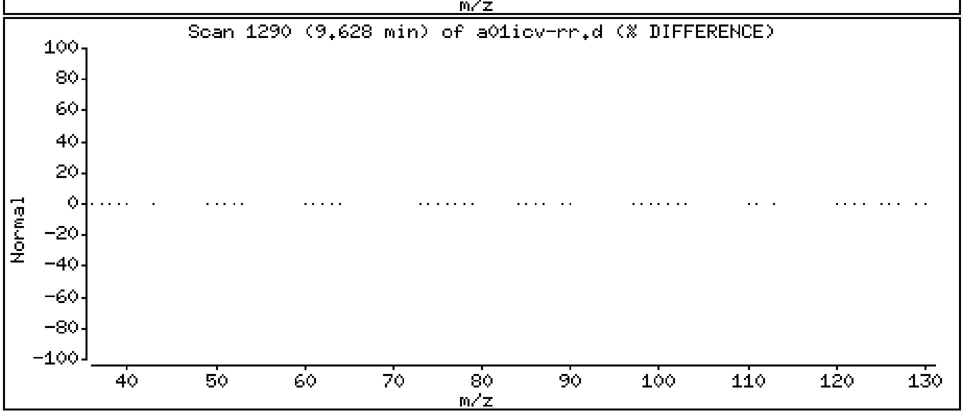












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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

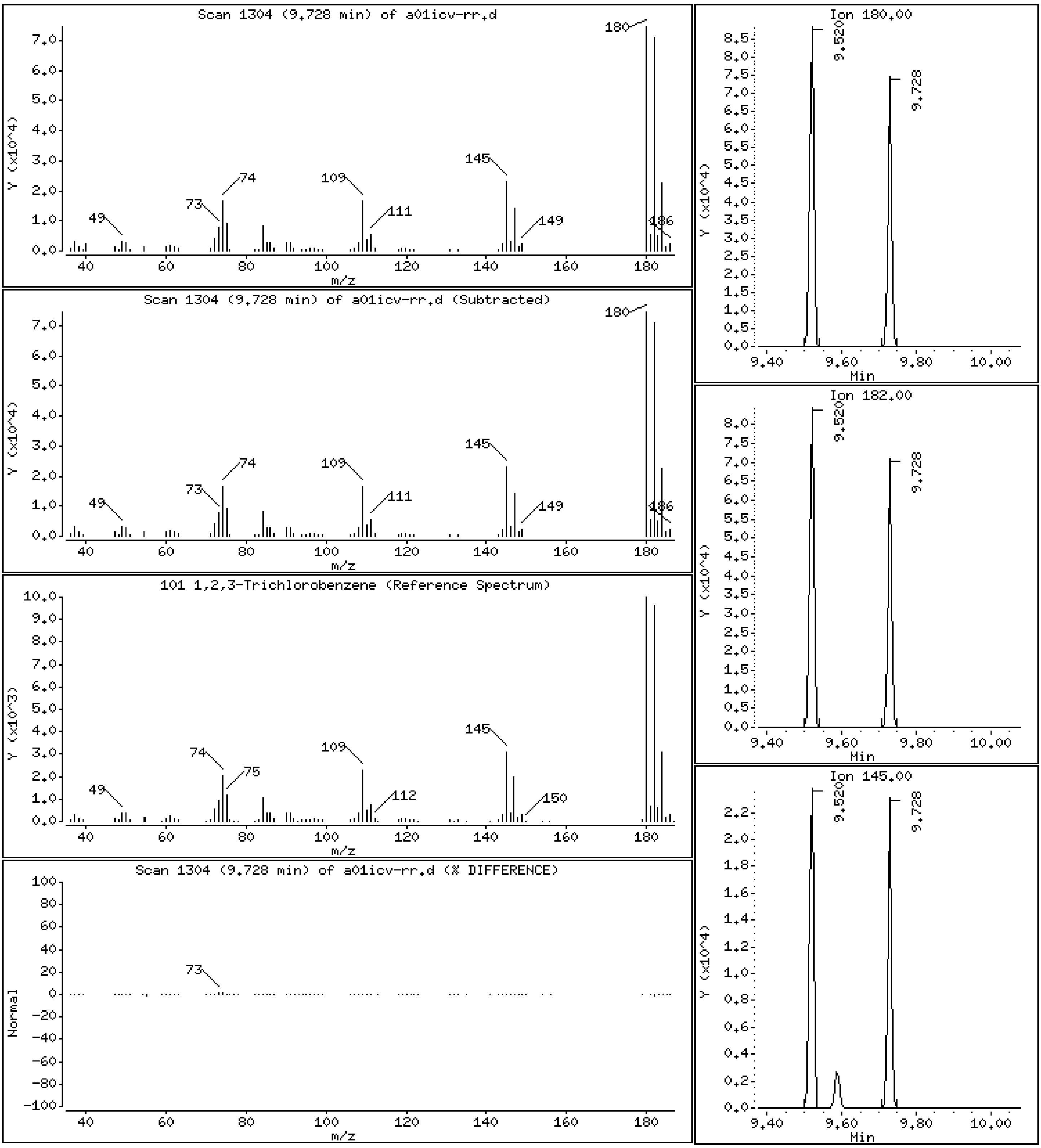
Column phase: DB-624

Column diameter: 0.18

101 1,2,3-Trichlorobenzene

Concentration: 52.3 ppb

Review Code:



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Date : 26-JAN-2023 09:06

Client ID:

Instrument: 50mv2a.i

Sample Info: 8260-ICV,336828

Purge Volume: 5.0

Operator: tkg

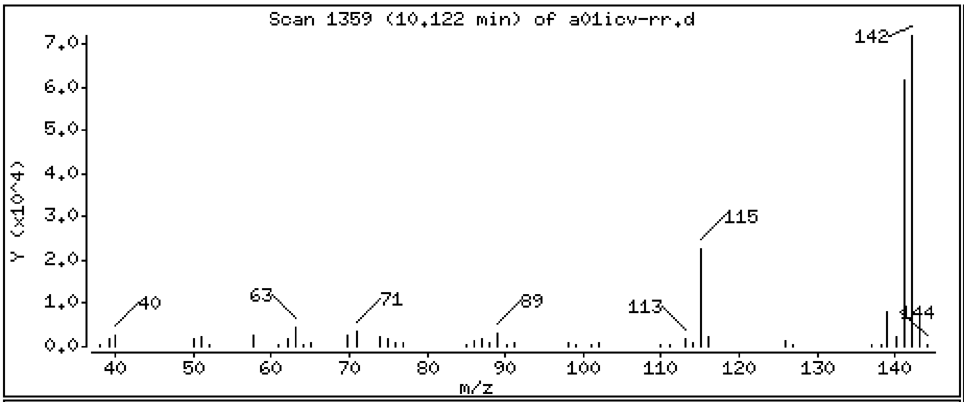
Column phase: DB-624

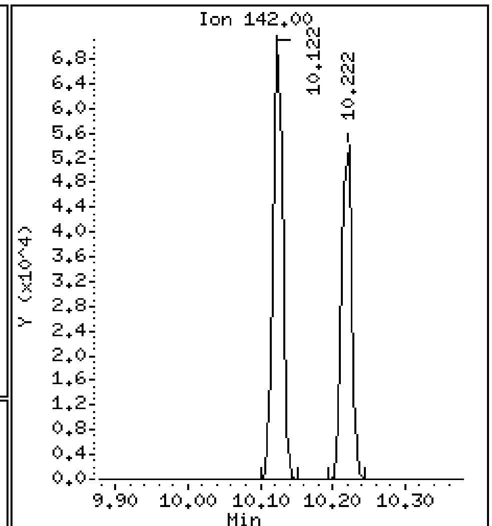
Column diameter: 0.18

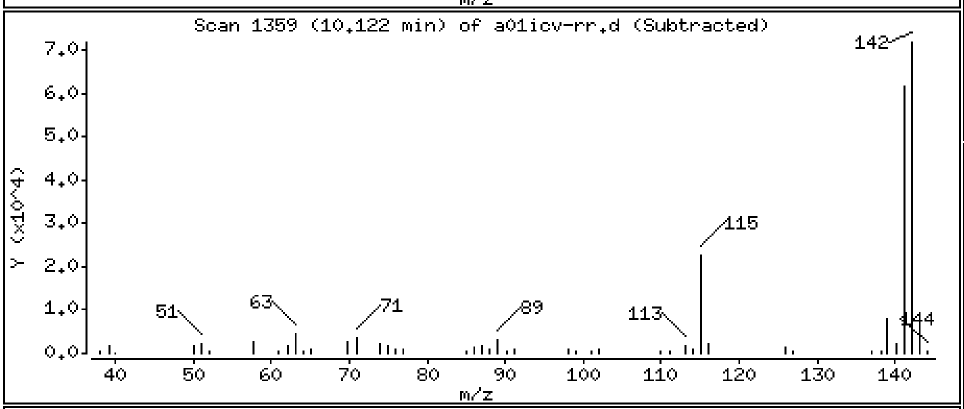
102 2,methyl-naphthalene

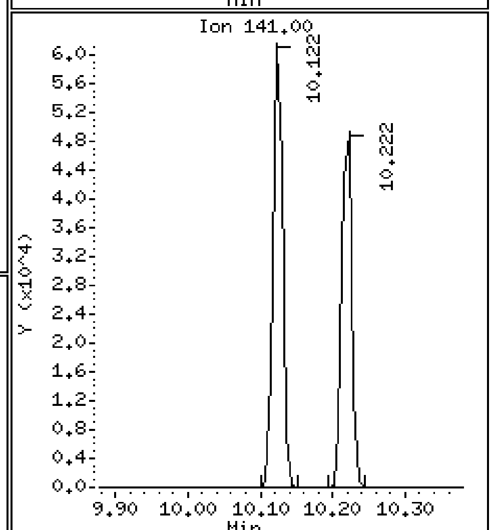
Concentration: 51.9 ppb

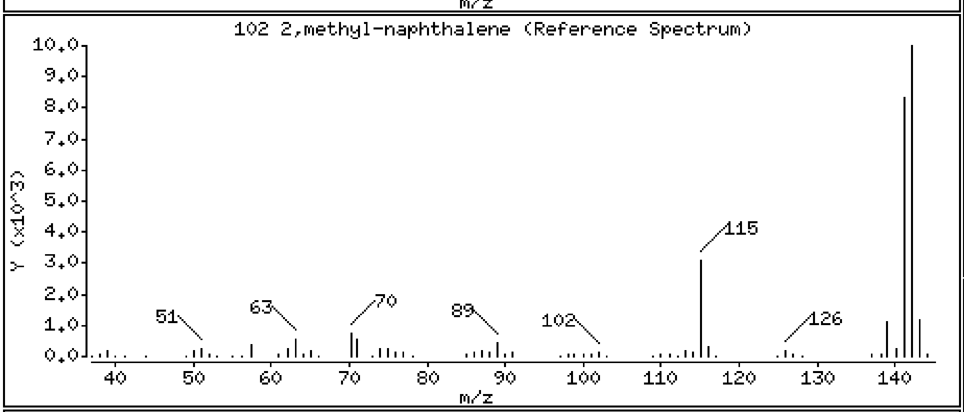
Review Code:

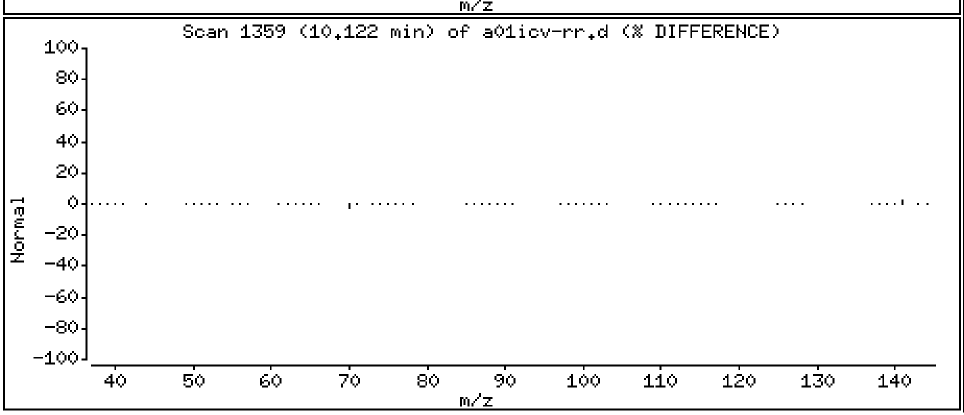


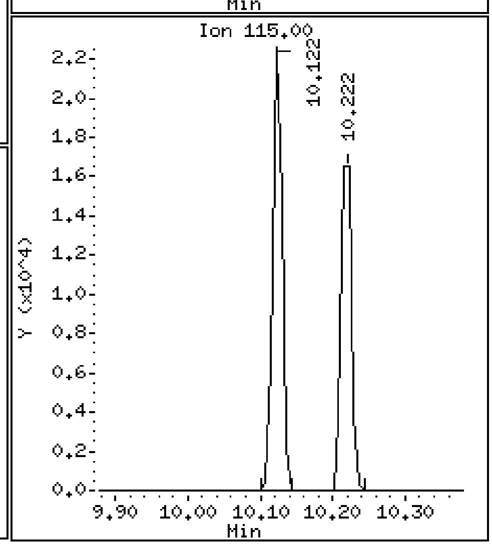












Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d	Page 101

Date : 26-JAN-2023 09:06

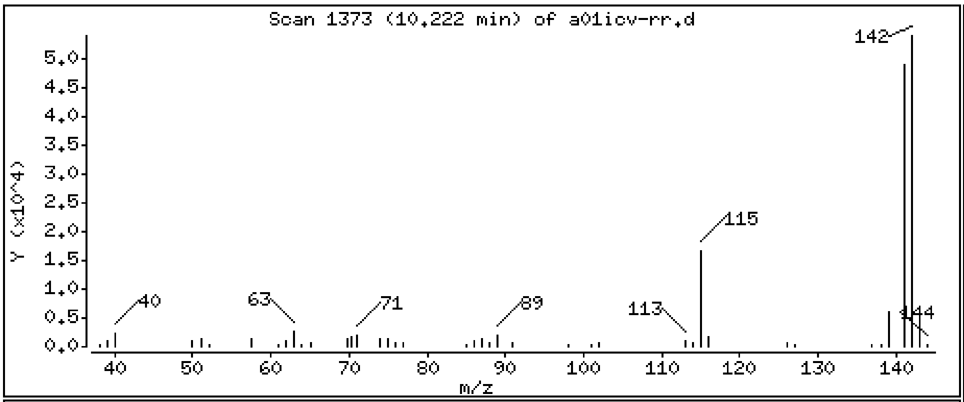
Client ID:	Instrument: 50mv2a.i

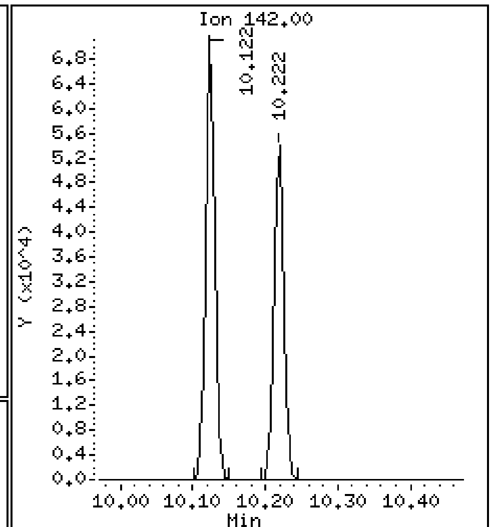
Sample Info: 8260-ICV,336828

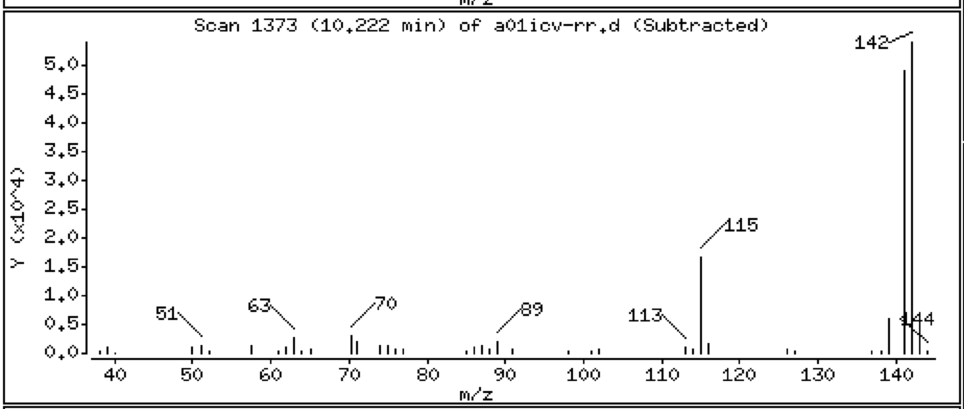
Purge Volume: 5.0	Operator: tkg

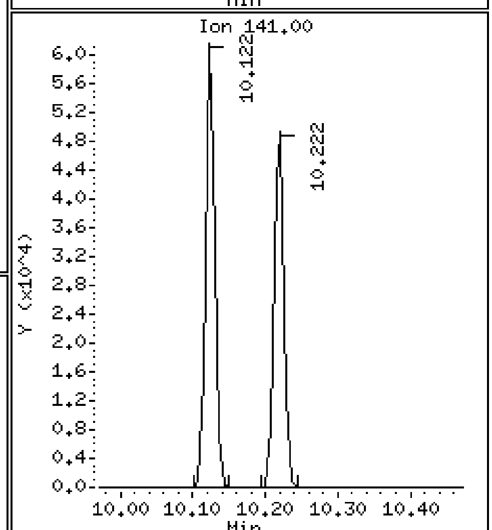
Column phase: DB-624	Column diameter: 0.18

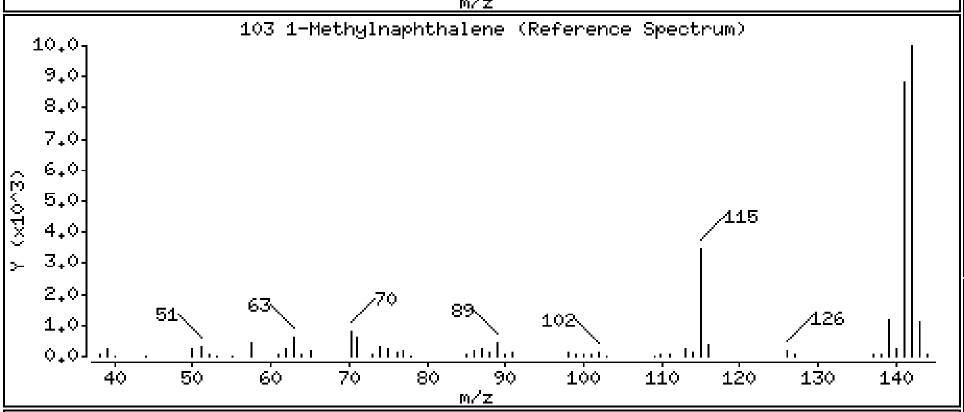
103 1-Methylnaphthalene	Concentration: 50.2 ppb	Review Code:

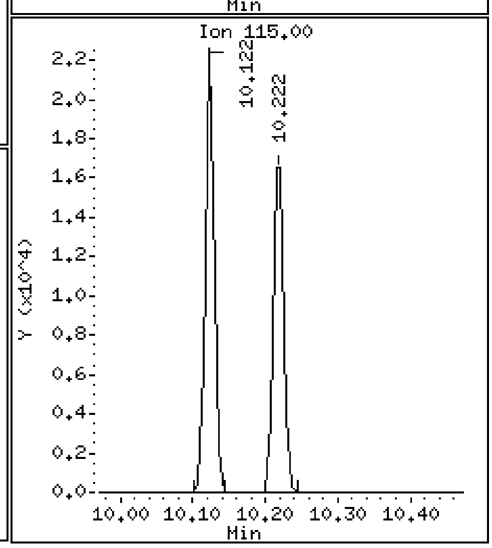


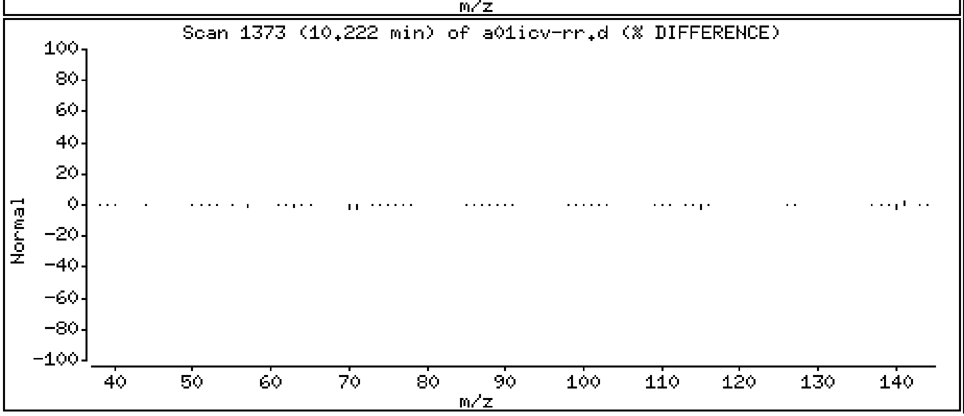












Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a01icv-rr.d

Date : 26-JAN-2023 09:06

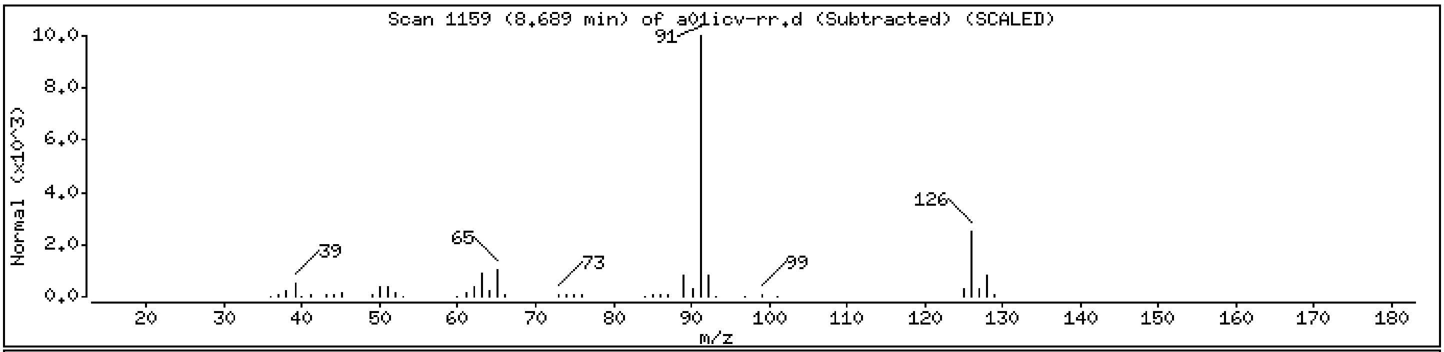
Client ID: Instrument: 50mv2a.i

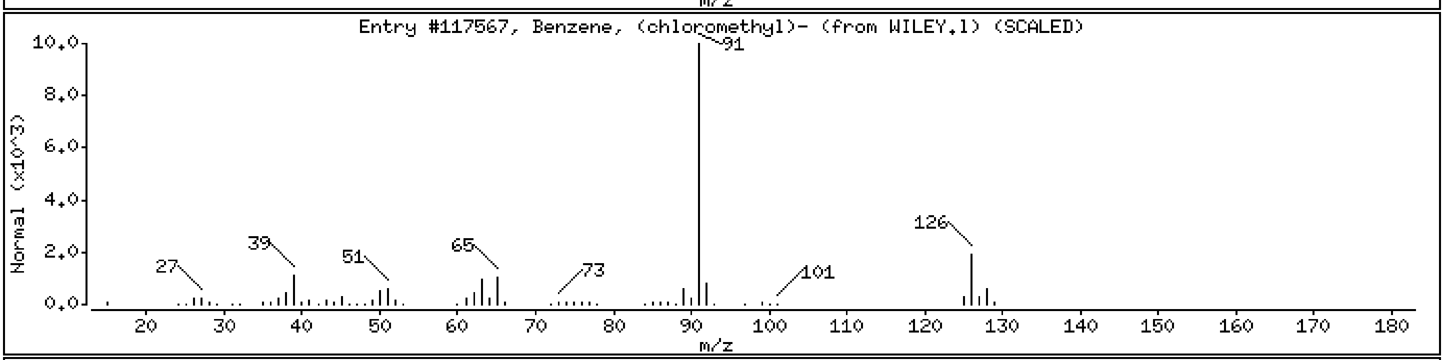
Sample Info: 8260-ICV,336828

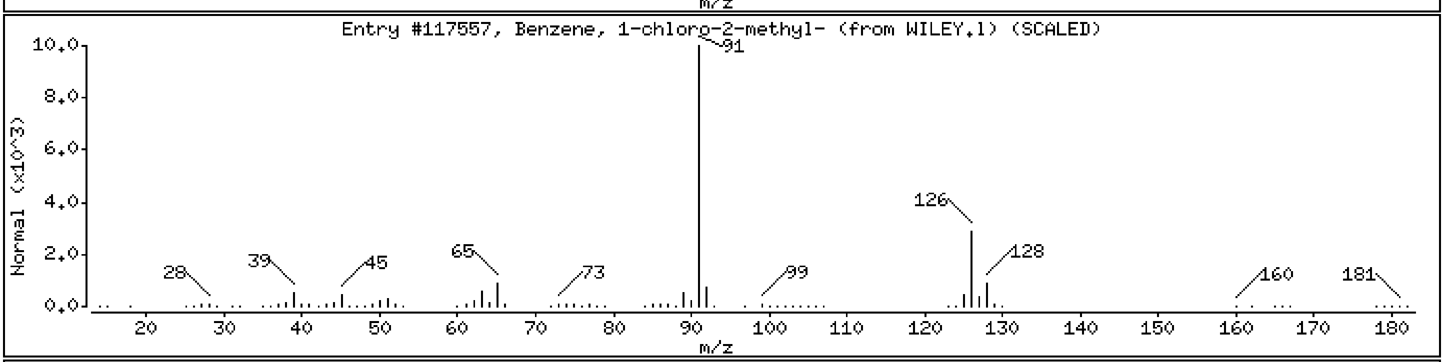
Purge Volume: 5.0 Operator: tkg

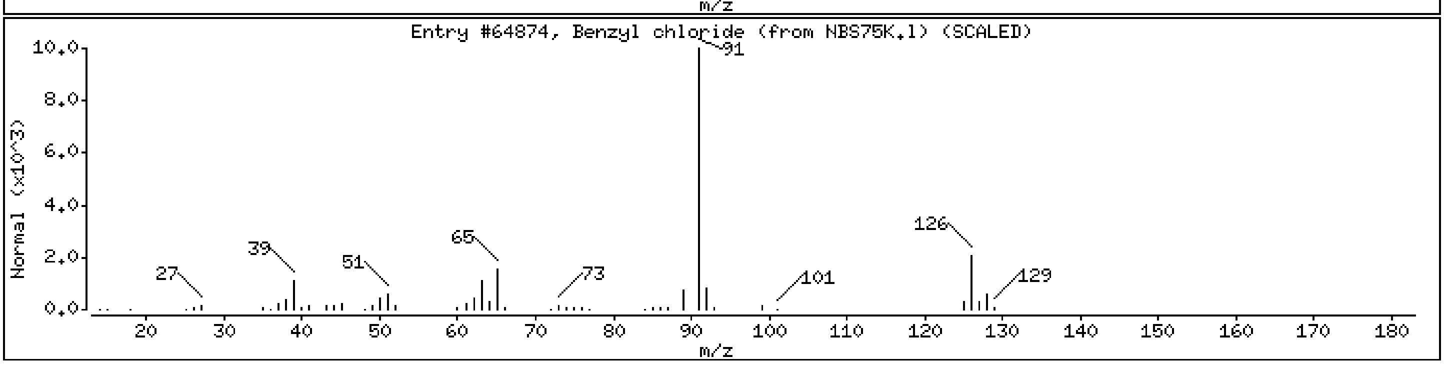
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (chloromethyl)-	100-44-7	WILEY.l	117567	91	C7H7Cl	126
Benzene, 1-chloro-2-methyl-	95-49-8	WILEY.l	117557	91	C7H7Cl	126
Benzyl chloride	100-44-7	NBS75K.l	64874	91	C7H7Cl	126









Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a01icv-rr.d
Injection Date: 26-JAN-2023 09:06
Instrument: 50mv2a.i
Lab Sample ID: 8260-ICV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012723.b\a01ccv.d
Lab Smp Id: 8260-CCV
Inj Date : 27-JAN-2023 11:06
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 8260-ccv,336607:0
Misc Info : 166154
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012723.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:23 50mv2a.i Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.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	0.974	0.974	(0.221)	43441	50.0000	42.6(Q)	
2 Chloromethane	50	1.132	1.132	(0.257)	38707	50.0000	52.3	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	50431	50.0000	51.3	
4 Bromomethane	94	1.275	1.275	(0.289)	37004	50.0000	59.8(M)	LT
5 Chloroethane	64	1.325	1.325	(0.301)	31496	50.0000	54.0	
6 Trichlorofluoromethane	101	1.454	1.454	(0.330)	84283	50.0000	54.7	
7 Diethyl ether	74	1.590	1.590	(0.361)	28325	50.0000	52.6	
8 Acrolein	56	1.662	1.662	(0.377)	217778	1000.00	1140	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	51709	50.0000	53.6	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	45722	50.0000	55.1	
11 Acetone	43	1.740	1.740	(0.395)	84794	250.000	264	
12 Iodomethane	142	1.819	1.819	(0.413)	82149	50.0000	56.7	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	120698	50.0000	54.4	
14 Acetonitrile	39	1.927	1.927	(0.437)	38949	250.000	256	
15 allyl chloride	41	1.927	1.927	(0.437)	63633	50.0000	48.1	
16 Methyl Acetate	43	1.934	1.934	(0.439)	191319	250.000	252	
17 Methylene Chloride	84	2.005	2.005	(0.455)	49044	50.0000	46.2	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	25288	250.000	220	
19 Acrylonitrile	53	2.156	2.156	(0.489)	101242	250.000	272	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	145486	50.0000	53.4	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	52494	50.0000	55.3	
22 n-Hexane	57	2.392	2.392	(0.543)	64382	50.0000	53.5	
23 1,1-Dichloroethane	63	2.500	2.500	(0.568)	79530	50.0000	53.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.536	2.536	(0.576)	427618	200.000	223	
	25 Diisopropyl ether	45	2.557	2.557	(0.581)	125439	50.0000	52.0	
	26 chloroprene	53	2.579	2.579	(0.585)	69408	50.0000	54.2	
	27 Ethyl-tert-butyl ether	59	2.887	2.887	(0.655)	138744	50.0000	53.7	
	28 1,2-Dichloroethene (cis)	96	3.023	3.023	(0.686)	58310	50.0000	55.2	
	29 2,2-Dichloropropane	77	3.030	3.030	(0.688)	77640	50.0000	60.1	
	30 2-Butanone	43	3.037	3.037	(0.689)	123671	250.000	277	
	31 Propionitrile	54	3.094	3.094	(0.702)	32460	250.000	275	
	32 Ethyl Acetate	88	3.109	3.109	(0.706)	15748	250.000	257	
	33 Methacrylonitrile	41	3.259	3.259	(0.740)	143757	250.000	268	
	34 Bromochloromethane	49	3.273	3.273	(0.743)	31816	50.0000	52.9	
	35 Tetrahydrofuran	42	3.331	3.331	(0.756)	85229	250.000	269	
	36 Chloroform	83	3.366	3.366	(0.764)	92687	50.0000	53.2	
$	37 Dibromofluoromethane (S)	113	3.553	3.553	(0.806)	58003	50.0000	52.0	
	38 1,1,1-Trichloroethane	97	3.589	3.589	(0.815)	84928	50.0000	54.6	
	39 Cyclohexane	56	3.660	3.660	(0.831)	70594	50.0000	52.6	
	40 Carbon Tetrachloride	117	3.796	3.796	(0.862)	76628	50.0000	54.9	
	41 1,1-Dichloropropene	75	3.796	3.796	(0.862)	64604	50.0000	55.6	
	42 Isobutyl alcohol	43	3.990	3.990	(0.906)	7029	250.000	260	
	43 Benzene	78	4.054	4.054	(0.920)	194503	50.0000	52.1	
	44 1,2-Dichloroethane	62	4.076	4.076	(0.925)	67267	50.0000	51.8	
	45 2,2,4-Trimethylpentane	57	4.434	4.434	(1.007)	36540	50.0000	48.1	
	46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	140646	50.0000	51.2	
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	205702	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	55574	50.0000	54.1	
	49 Methylcyclohexane	55	5.050	5.050	(1.146)	58902	50.0000	51.5	
	50 1,2-Dichloropropane	63	5.078	5.078	(1.153)	45384	50.0000	53.4	
	51 Dibromomethane	93	5.200	5.200	(1.180)	33944	50.0000	55.6	
	52 1,4-Dioxane	88	5.258	5.258	(1.193)	1316	1000.00	404	
	53 Methyl methacrylate	69	5.258	5.258	(1.193)	43283	50.0000	56.4	
	54 Bromodichloromethane	83	5.386	5.386	(1.223)	67045	50.0000	54.9	
	55 2-Chloroethyl vinyl ether	63	5.737	5.737	(0.785)	171946	250.000	263	
	56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	81475	50.0000	54.2	
	57 4-Methyl-2-Pentanone	43	6.045	6.045	(0.827)	274686	250.000	244	
$	58 Toluene-d8	98	6.131	6.131	(0.839)	205631	50.0000	49.5	
	59 Toluene	91	6.196	6.196	(0.848)	230951	50.0000	50.9	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	75192	50.0000	53.1	
	61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	71956	50.0000	52.7	
	62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	38808	50.0000	52.4	
	63 Tetrachloroethene	166	6.697	6.697	(0.917)	73932	50.0000	53.0	
	64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	76678	50.0000	50.9	
	65 2-Hexanone	43	6.812	6.812	(0.932)	211348	250.000	262	
	66 Dibromochloromethane	129	6.898	6.898	(0.944)	60291	50.0000	53.8	
	67 1,2-Dibromoethane	107	6.970	6.970	(0.954)	54808	50.0000	55.4	
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	163464	50.0000		
	69 Chlorobenzene	112	7.328	7.328	(1.003)	159141	50.0000	51.1	
	70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	59127	50.0000	53.7	
	71 Ethylbenzene	106	7.406	7.406	(1.014)	85433	50.0000	51.6	
	72 m&p-Xylene	106	7.485	7.485	(1.025)	110002	50.0000	53.2	
	73 o-Xylene	106	7.722	7.722	(1.057)	101271	50.0000	51.5	
	74 Styrene	104	7.729	7.729	(1.058)	173358	50.0000	51.6	
	75 Bromoform	173	7.829	7.829	(0.909)	48763	50.0000	48.3	
	76 Isopropylbenzene	105	7.937	7.937	(1.086)	269848	50.0000	50.9	
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	79137	50.0000	50.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	89500	50.0000	48.1	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	69382	50.0000	53.7	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	25207	50.0000	53.7	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	21563	50.0000	55.2	
82 n-Propylbenzene	91	8.159	8.159	(0.948)	308464	50.0000	52.1	
83 2-Chlorotoluene	91	8.202	8.202	(0.953)	177062	50.0000	51.5	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	222016	50.0000	51.4	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	68895	50.0000	53.1	
86 tert-Butylbenzene	119	8.416	8.416	(0.978)	207848	50.0000	46.7	
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	224268	50.0000	50.7	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	275071	50.0000	51.6	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	128927	50.0000	50.4	
90 p-Isopropyltoluene	119	8.596	8.596	(0.998)	241929	50.0000	51.3	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	88754	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	129746	50.0000	51.6	
93 1,2,3-Trimethylbenzene	105	8.646	8.646	(1.004)	208721	50.0000	50.3	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	195627	50.0000	51.9	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	114234	50.0000	50.1	
96 Hexachloroethane	201	8.925	8.925	(1.037)	40099	50.0000	56.3	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	16727	50.0000	48.4	
98 1,2,4-Trichlorobenzene	180	9.520	9.520	(1.106)	68438	50.0000	50.3	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	34703	50.0000	52.1	
100 Naphthalene	128	9.627	9.627	(1.118)	179626	50.0000	50.6	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	54241	50.0000	50.6	
102 2,methyl-naphthalene	142	10.128	10.128	(1.176)	57663	50.0000	47.8	
103 1-Methylnaphthalene	142	10.222	10.222	(1.187)	48614	50.0000	47.1	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
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\50mv2a.i\a012723.b\a01ccv.d

Date : 27-JAN-2023 11:06

Client ID:

Instrument: 50mv2a.i

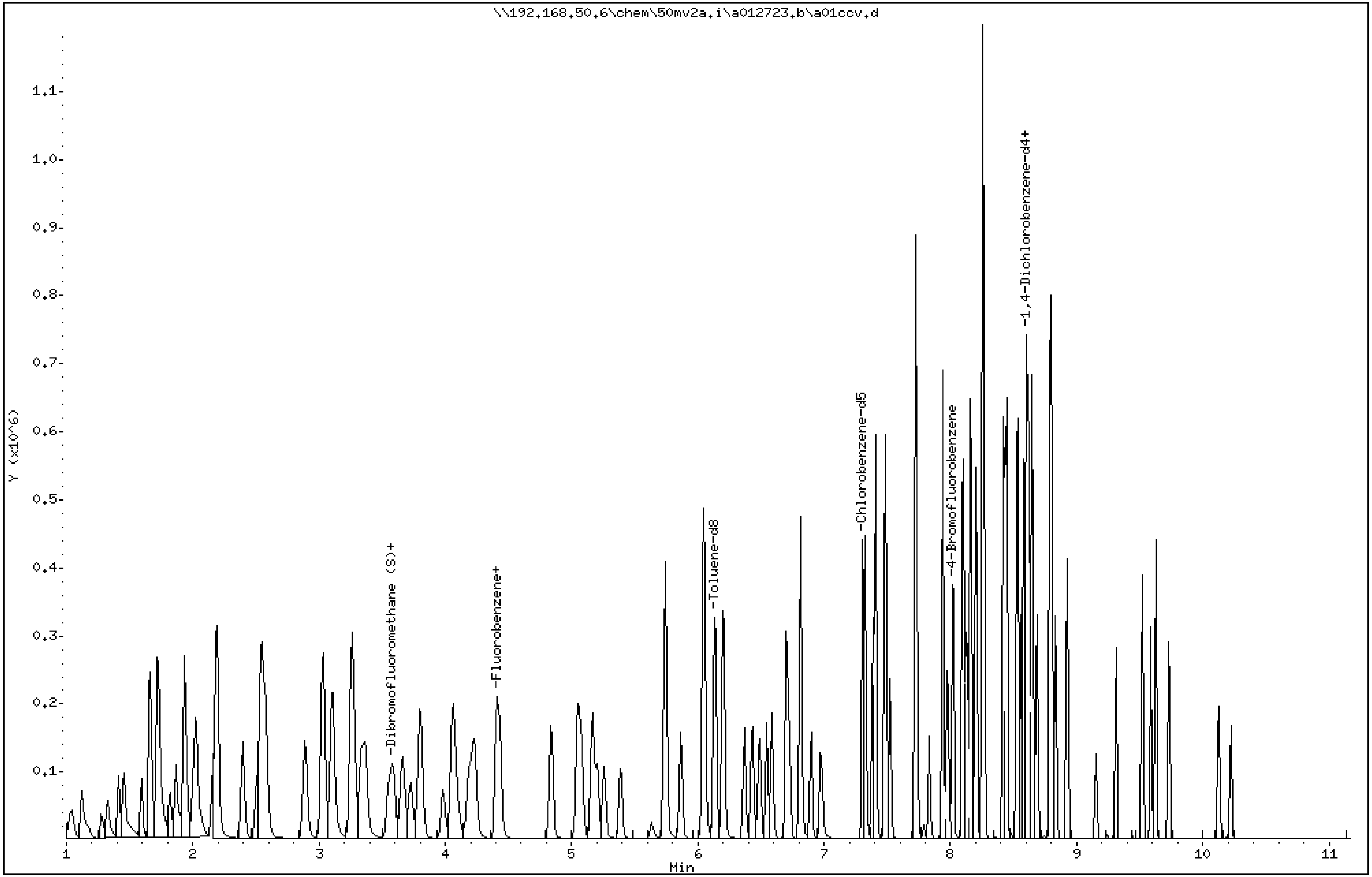
Sample Info: 8260-CCV,336607:0

Purge Volume: 5.0

Operator: tkg

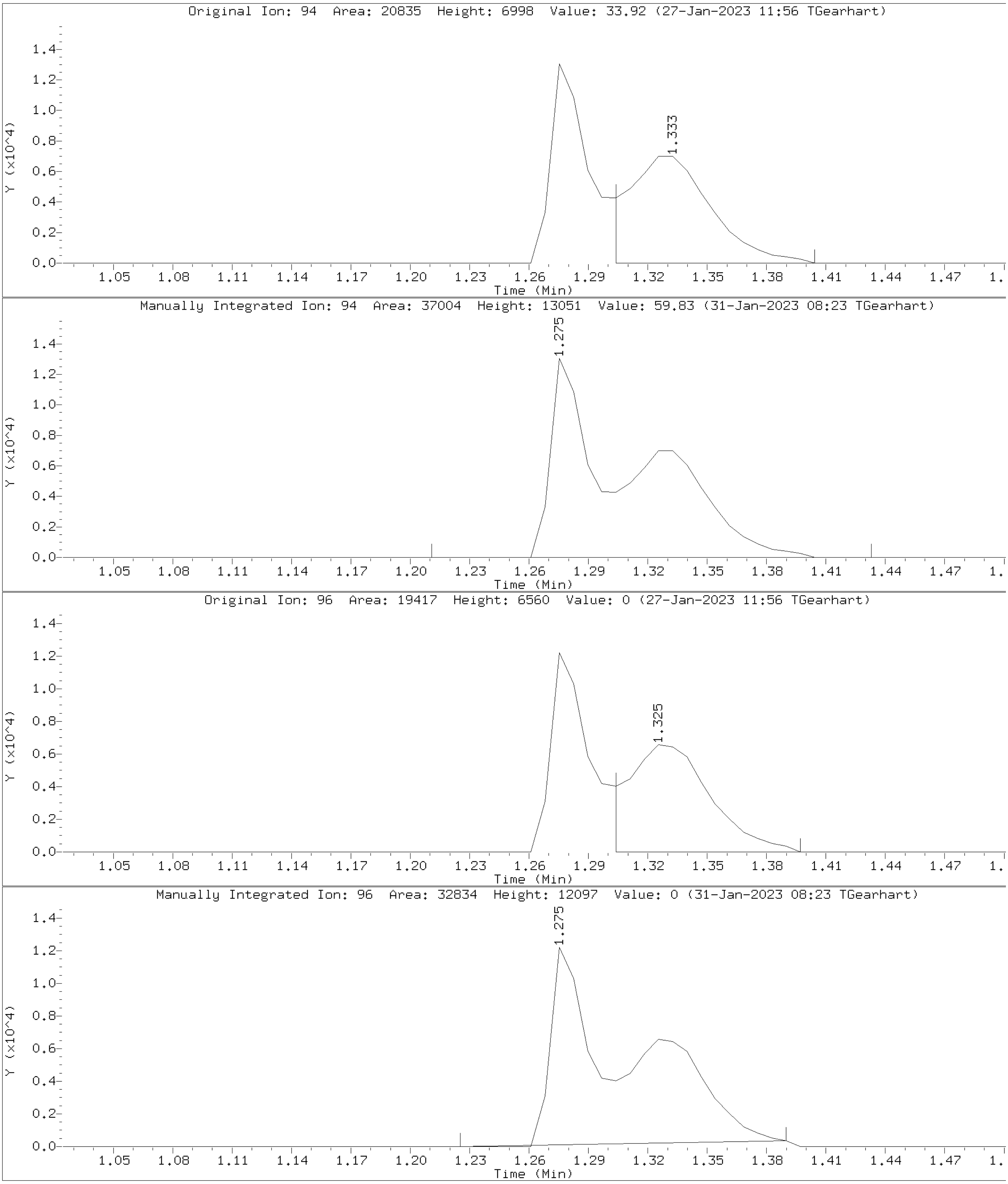
Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a01ccv.d
Injection Date: 27-JAN-2023 11:06
Instrument: 50mv2a.i
Lab Sample ID: 8260-CCV

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d
Lab Smp Id: 8260-ICV   Client Smp ID: 8260-ICV
Inj Date : 16-JAN-2023 19:47
Operator : DAP   Inst ID: 50mvcb.i
Smp Info : 8260-icv,335770:0
Misc Info : 166065
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b011623cal.b\-b8260_a_c.m
Meth Date : 18-Jan-2023 07:55 DPendergra Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31   Cal File: b05.d
Als bottle: 1   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	1.174	1.175	(0.236)	73167	43.6452	43.6	
2 Chloromethane	50	1.296	1.296	(0.260)	83679	50.4126	50.4	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	82977	45.6950	45.7	
4 Bromomethane	94	1.532	1.533	(0.307)	47877	56.4317	56.4	
5 Chloroethane	64	1.590	1.590	(0.319)	48472	46.8444	46.8	
6 Trichlorofluoromethane	101	1.740	1.740	(0.349)	99595	47.7369	47.7	
7 Diethyl ether	74	1.912	1.912	(0.384)	47503	48.4106	48.4	
8 Acrolein	56	1.991	1.991	(0.399)	298197	968.017	968	
9 1,1,2trichlorotrifluoroethane	101	2.062	2.062	(0.414)	65517	46.9795	47.0	
10 1,1-Dichloroethene	96	2.070	2.070	(0.415)	65934	47.6154	47.6	
11 Acetone	43	2.091	2.091	(0.420)	93435	206.661	207	
12 Iodomethane	142	2.184	2.177	(0.438)	94604	48.5295	48.5	
13 Carbon Disulfide	76	2.241	2.234	(0.450)	211556	45.7682	45.8	
14 Acetonitrile	39	2.313	2.313	(0.464)	52351	242.707	243	
15 allyl chloride	41	2.313	2.314	(0.464)	117332	46.0912	46.1	
16 Methyl Acetate	43	2.320	2.320	(0.466)	261476	214.613	215	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.494)	39267	326.390	326(QM)	LT
18 Methylene Chloride	84	2.399	2.399	(0.481)	75573	49.0689	49.1	
19 Acrylonitrile	53	2.585	2.585	(0.519)	151804	269.328	269	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.527)	208485	47.0705	47.1	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.527)	73704	46.6221	46.6	
22 n-Hexane	57	2.872	2.872	(0.576)	97373	50.1776	50.2	
23 1,1-Dichloroethane	63	2.994	2.994	(0.601)	124002	45.9476	45.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.037	3.037	(0.609)	651070	223.150	223	
	25 Diisopropyl ether	45	3.065	3.065	(0.615)	207004	46.6069	46.6	
	26 chloroprene	53	3.094	3.094	(0.621)	103736	48.5539	48.6	
	27 Ethyl-tert-butyl ether	59	3.459	3.459	(0.694)	210364	47.0412	47.0	
	28 2,2-Dichloropropane	77	3.624	3.624	(0.727)	94821	44.9041	44.9	
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.726)	82213	46.9504	47.0	
	30 2-Butanone	43	3.631	3.624	(0.728)	162186	236.834	237(QM)	NI
	31 Ethyl Acetate	88	3.717	3.710	(0.746)	21878	257.646	258	
	32 Propionitrile	54	3.696	3.689	(0.741)	56496	293.841	294	
	33 Methacrylonitrile	41	3.889	3.889	(0.780)	211652	241.896	242	
	34 Bromochloromethane	49	3.910	3.903	(0.784)	50320	42.5590	42.6	
	35 Tetrahydrofuran	42	3.982	3.982	(0.799)	123985	250.638	251	
	36 Chloroform	83	4.011	4.011	(0.805)	120295	44.1493	44.1	
$	37 Dibromofluoromethane (S)	113	4.204	4.197	(0.843)	57410	50.7119	50.7	
	38 1,1,1-Trichloroethane	97	4.247	4.240	(0.852)	110687	49.1762	49.2	
	39 Cyclohexane	56	4.312	4.312	(0.865)	118710	49.8998	49.9	
	40 Carbon Tetrachloride	117	4.441	4.441	(0.891)	96631	49.1579	49.2	
	41 1,1-Dichloropropene	75	4.441	4.433	(0.891)	100829	51.8750	51.9	
	42 Isobutyl alcohol	43	4.577	4.577	(0.918)	15894	347.424	347	
	43 Benzene	78	4.670	4.670	(0.937)	311092	46.4558	46.4	
	44 1,2-Dichloroethane	62	4.684	4.677	(0.940)	83881	50.1946	50.2	
	45 2,2,4-Trimethylpentane	57	4.784	4.777	(0.960)	193362	51.0745	51.1	
	46 tert-Amylmethyl ether	73	4.820	4.814	(0.967)	211541	48.4535	48.4(M)	LT
*	47 Fluorobenzene	96	4.985	4.985	(1.000)	249222	50.0000	(Q)	
	48 Trichloroethene	95	5.379	5.379	(1.079)	77964	46.5132	46.5	
	49 Methylcyclohexane	55	5.587	5.587	(1.121)	87528	49.2933	49.3	
	50 1,2-Dichloropropane	63	5.608	5.601	(1.125)	73783	49.7114	49.7	
	51 Dibromomethane	93	5.723	5.716	(1.148)	42521	44.6004	44.6	
	52 Methyl methacrylate	69	5.758	5.759	(1.155)	63261	52.0398	52.0	
	53 1,4-Dioxane	88	5.773	5.071	(1.158)	2030	477.537	478(R)	
	54 Bromodichloromethane	83	5.887	5.888	(1.181)	95288	52.1478	52.1	
	55 2-Chloroethyl vinyl ether	63	6.217	6.210	(0.814)	266174	260.609	261	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.831)	126117	46.3089	46.3	
	57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.851)	397058	249.426	249	
$	58 Toluene-d8	98	6.589	6.589	(0.863)	249003	49.4925	49.5	
	59 Toluene	91	6.647	6.647	(0.871)	340348	45.5095	45.5	
	60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.894)	114210	47.4931	47.5	
	61 Ethyl Methacrylate	69	6.919	6.919	(0.906)	107807	49.3712	49.4	
	62 1,1,2-Trichloroethane	83	6.969	6.962	(0.913)	54598	43.6819	43.7	
	63 Tetrachloroethene	166	7.084	7.077	(0.928)	91880	45.3579	45.4	
	64 1,3-Dichloropropane	76	7.091	7.091	(0.929)	116399	43.6747	43.7	
	65 2-Hexanone	43	7.162	7.163	(0.938)	281367	239.925	240	
	66 Dibromochloromethane	129	7.248	7.248	(0.949)	80499	45.6852	45.7	
	67 1,2-Dibromoethane	107	7.327	7.320	(0.960)	72219	44.6275	44.6	
*	68 Chlorobenzene-d5	117	7.635	7.628	(1.000)	194032	50.0000		
	69 Chlorobenzene	112	7.650	7.650	(1.002)	230752	47.1718	47.2	
	70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.008)	80371	47.5836	47.6	
	71 Ethylbenzene	106	7.721	7.721	(1.011)	127066	49.7624	49.8	
	72 m&p-Xylene	106	7.793	7.793	(1.021)	306852	94.7713	94.8	
	73 o-Xylene	106	8.022	8.022	(1.051)	141346	47.3662	47.4	
	74 Styrene	104	8.029	8.022	(1.052)	245253	48.3906	48.4	
	75 Bromoform	173	8.129	8.130	(0.915)	61659	45.2354	45.2	
	76 Isopropylbenzene	105	8.223	8.223	(1.077)	362917	48.8363	48.8	
$	77 4-Bromofluorobenzene	95	8.301	8.301	(1.087)	91909	50.2910	50.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.380	8.380	(1.098)	174349	47.1697	47.2	
79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.943)	99891	44.6067	44.6	
80 1,2,3-Trichloropropane	110	8.394	8.395	(0.945)	31537	44.6979	44.7	
81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.100)	27072	46.4947	46.5	
82 n-Propylbenzene	91	8.437	8.438	(0.950)	415351	48.4280	48.4	
83 2-Chlorotoluene	91	8.480	8.481	(0.955)	249344	47.7418	47.7	
84 1,3,5-Trimethylbenzene	105	8.523	8.523	(0.960)	296680	49.8933	49.9	
85 4-Chlorotoluene	126	8.538	8.538	(0.961)	92932	47.3952	47.4	
86 tert-Butylbenzene	119	8.688	8.689	(0.978)	304378	51.5423	51.5	
87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	313150	51.8998	51.9	
88 sec-Butylbenzene	105	8.788	8.789	(0.990)	358385	49.8978	49.9	
89 1,3-Dichlorobenzene	146	8.846	8.846	(0.996)	175172	49.1338	49.1	
90 p-Isopropyltoluene	119	8.853	8.853	(0.997)	316373	50.5134	50.5	
* 91 1,4-Dichlorobenzene-d4	152	8.882	8.874	(1.000)	106434	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	8.889	8.889	(1.001)	171871	46.9530	47.0	
93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.003)	295946	49.0439	49.0	
94 n-Butylbenzene	91	9.046	9.046	(1.019)	242741	47.6347	47.6	
95 1,2-Dichlorobenzene	146	9.068	9.061	(1.021)	153647	45.2771	45.3	
96 Hexachloroethane	201	9.190	9.190	(1.035)	49608	50.3980	50.4	
97 1,2-Dibromo-3-chloropropane	155	9.404	9.405	(1.059)	22935	49.5393	49.5(QH)	WP
98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.099)	95704	50.7244	50.7	
99 Hexachlorobutadiene	225	9.834	9.834	(1.107)	46526	50.5531	50.6	
100 Naphthalene	128	9.877	9.877	(1.112)	276097	51.8344	51.8	
101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.124)	79013	51.2229	51.2	
102 2,methyl-naphthalene	142	10.414	10.415	(1.173)	24377	63.1754	63.2	
103 1-Methylnaphthalene	142	10.522	10.522	(1.185)	13795	60.1914	60.2	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

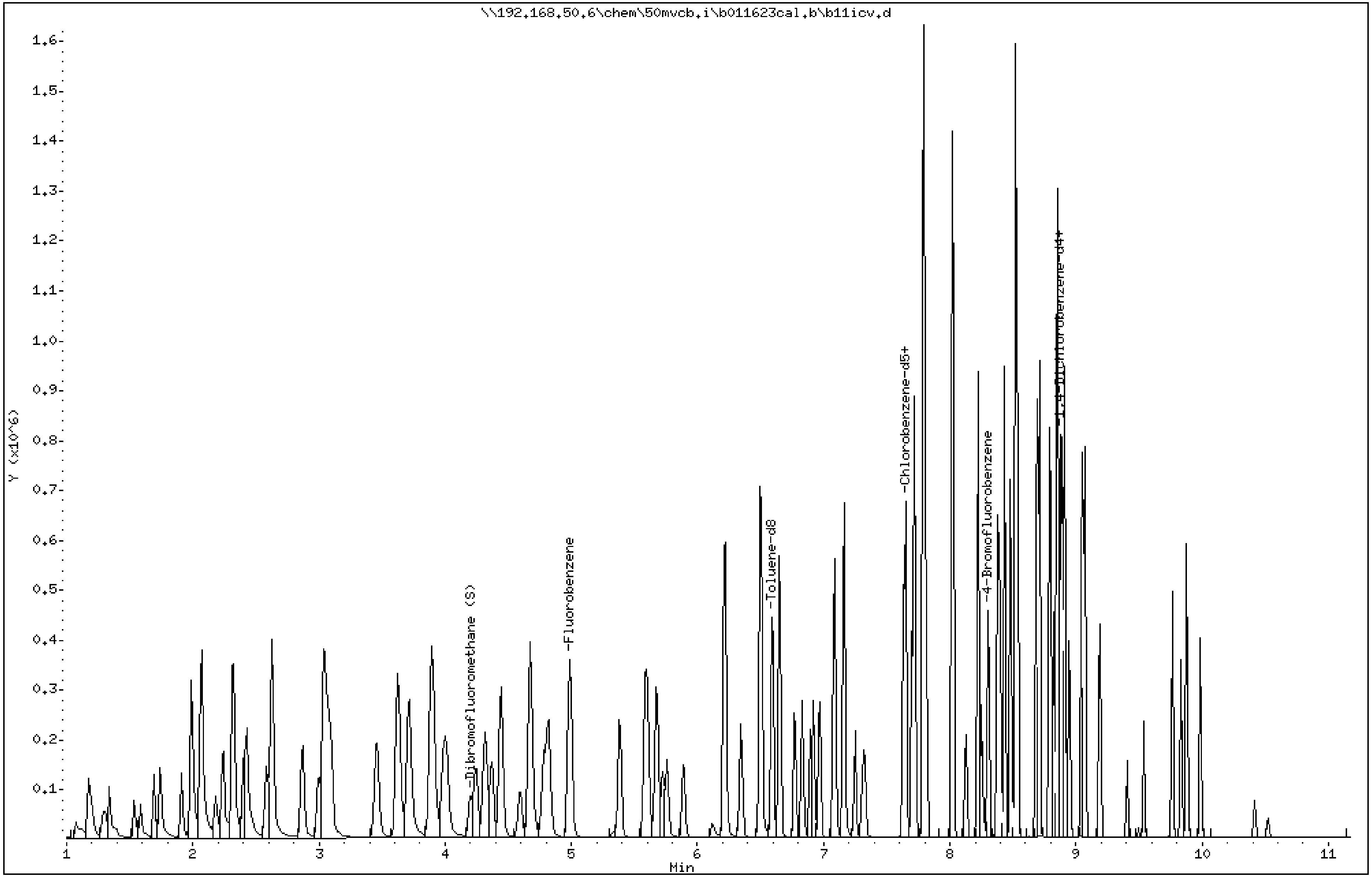
Review Codes Legend

:
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.

Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d
Date : 16-JAN-2023 19:47
Client ID: 8260-ICV
Sample Info: 8260-ICV,335770:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mvcb.i

Operator: DAP
Column diameter: 0.18



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

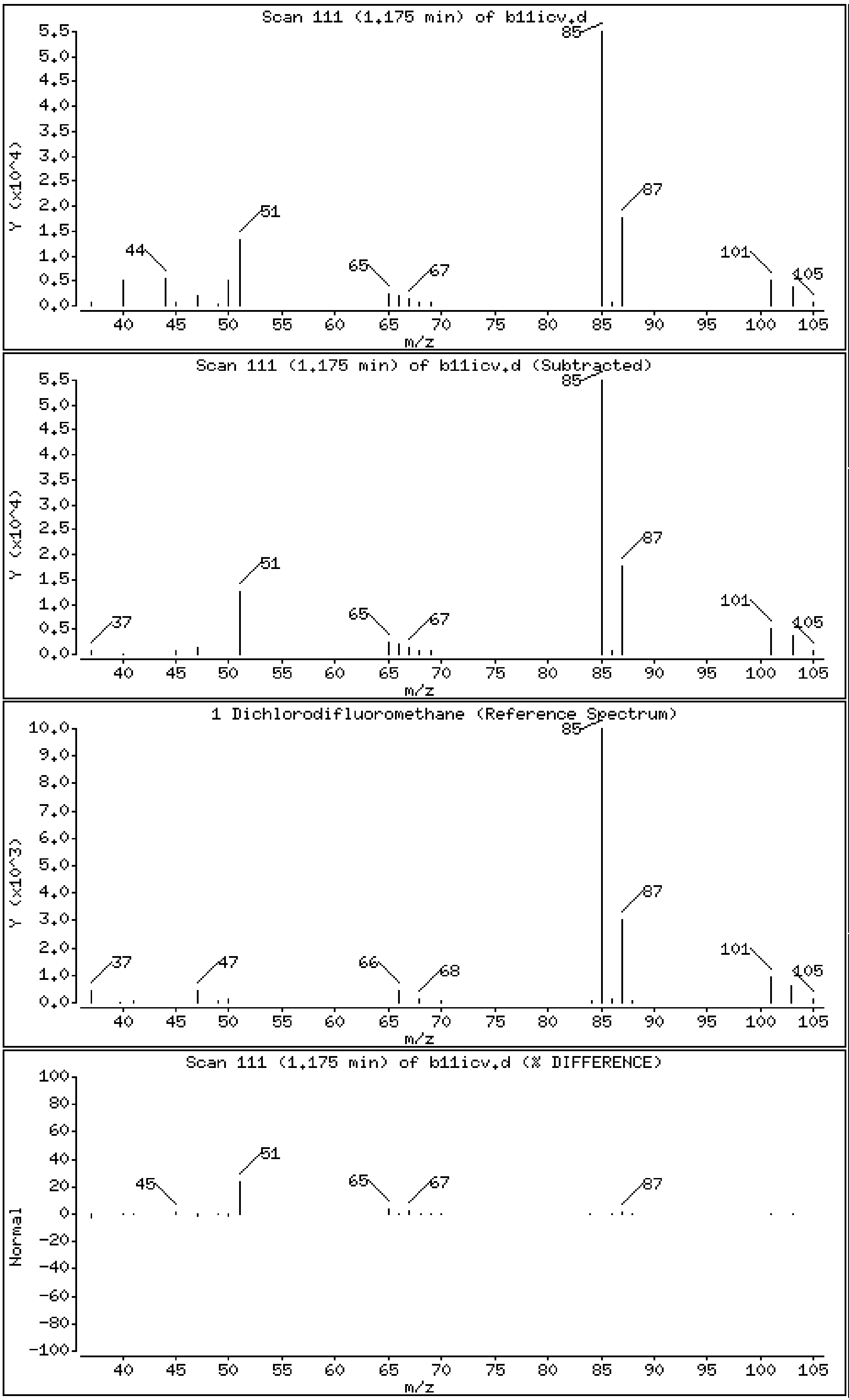
Column phase: DB-624

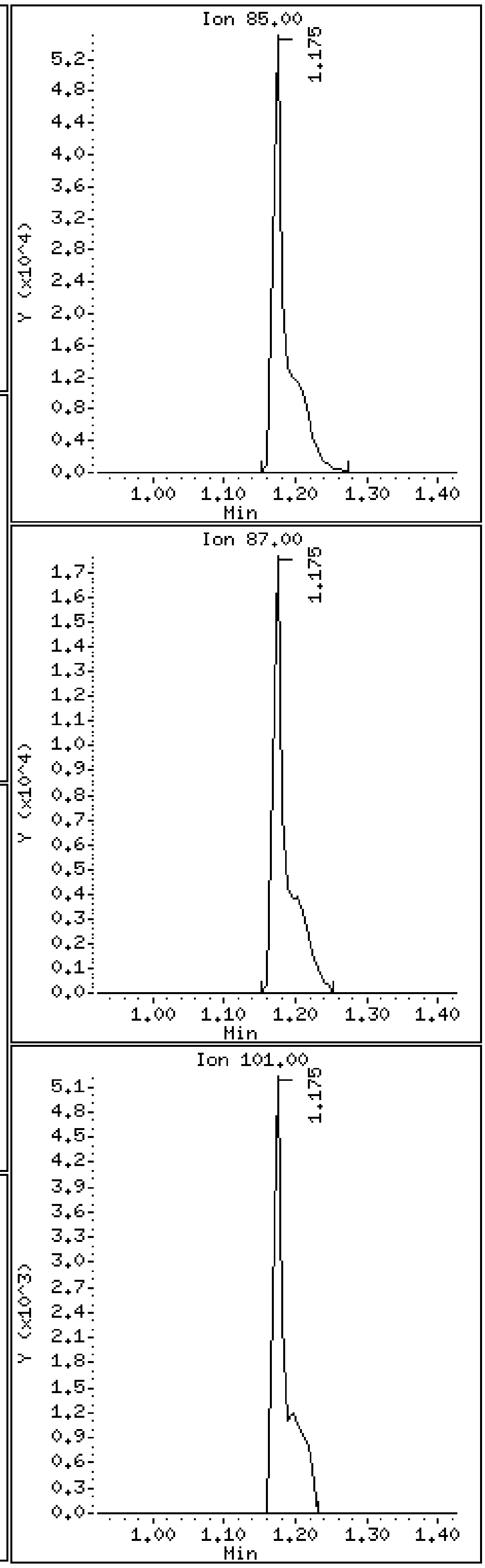
Column diameter: 0.18

1 Dichlorodifluoromethane

Concentration: 43.6 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

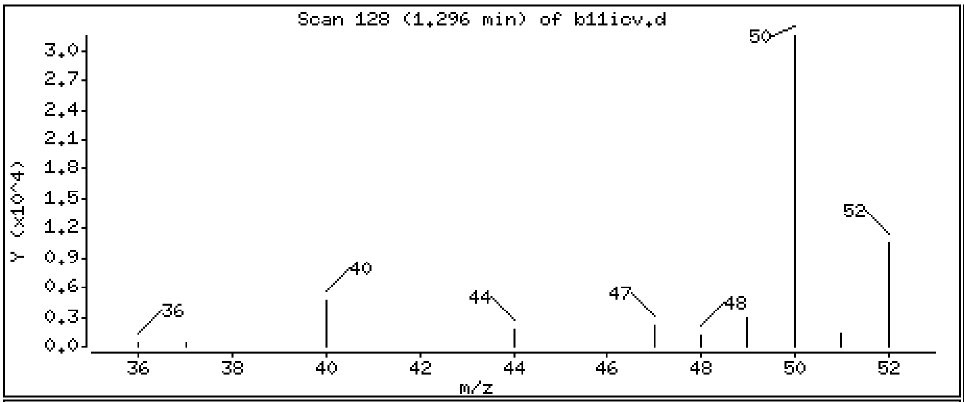
Column phase: DB-624

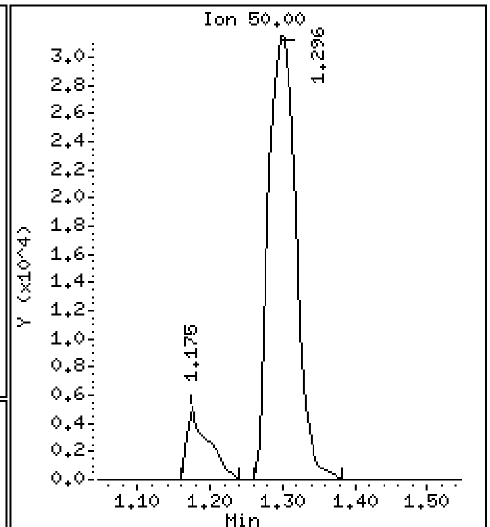
Column diameter: 0.18

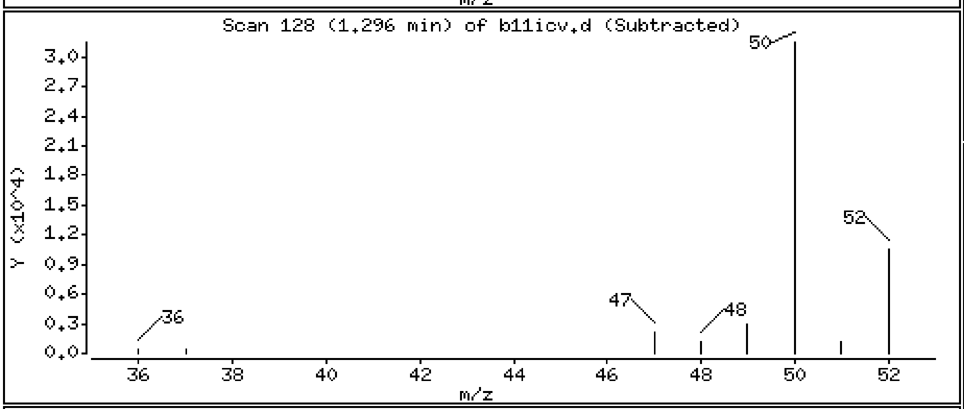
2 Chloromethane

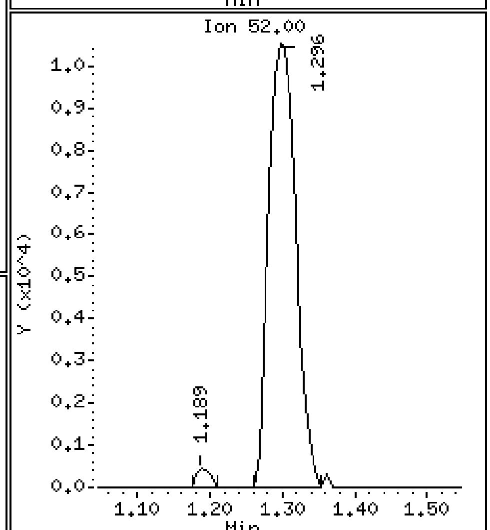
Concentration: 50.4 ppb

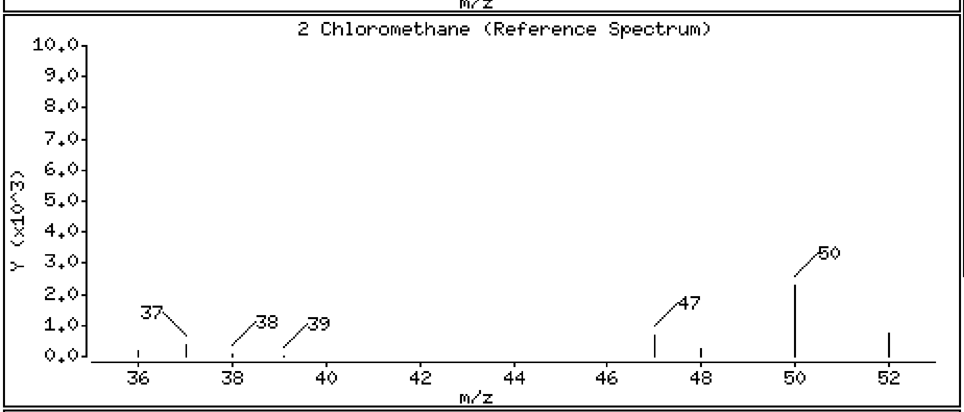
Review Code:

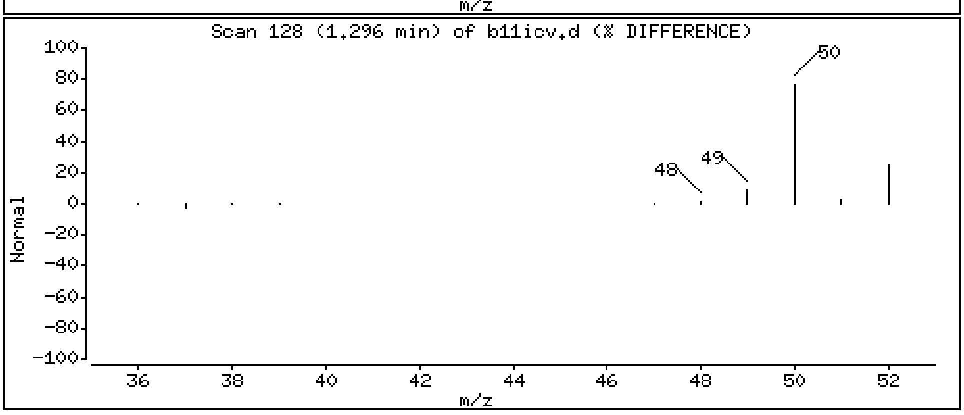












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

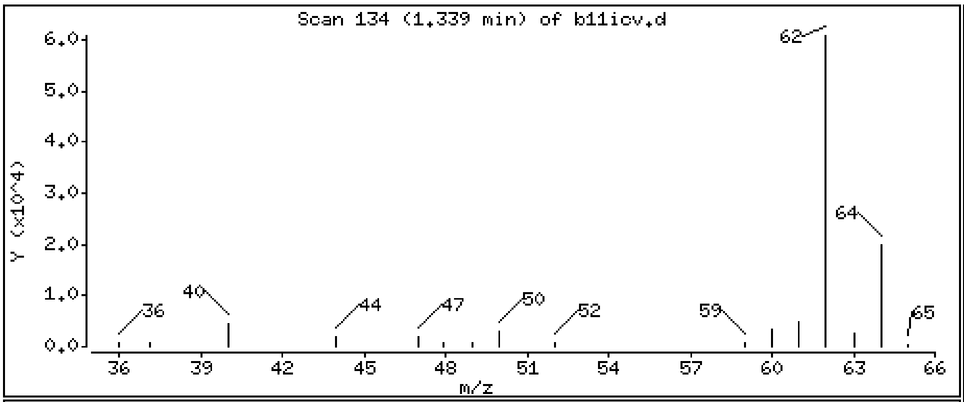
Column phase: DB-624

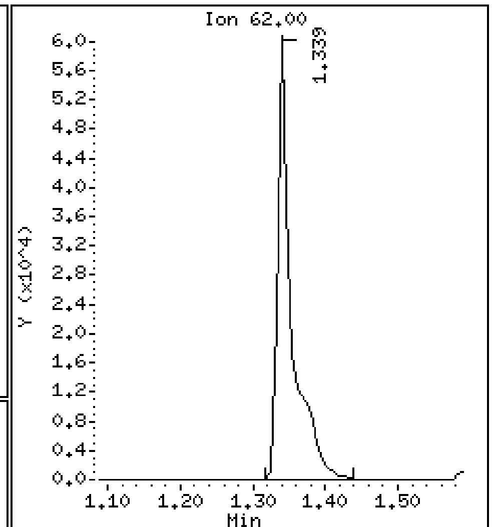
Column diameter: 0.18

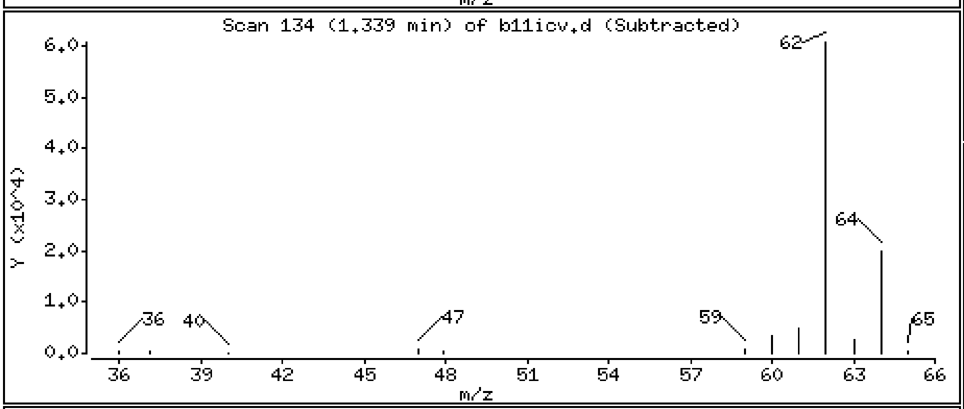
3 Vinyl Chloride

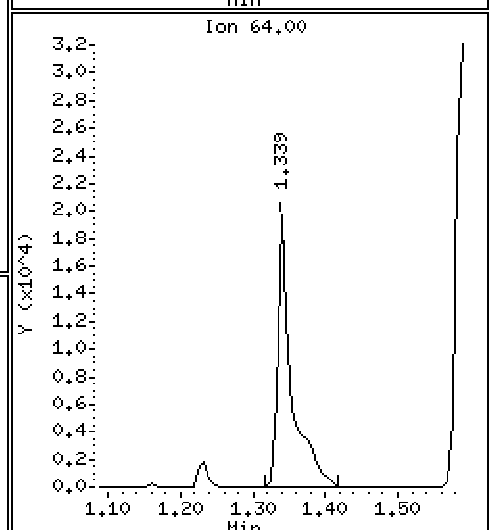
Concentration: 45.7 ppb

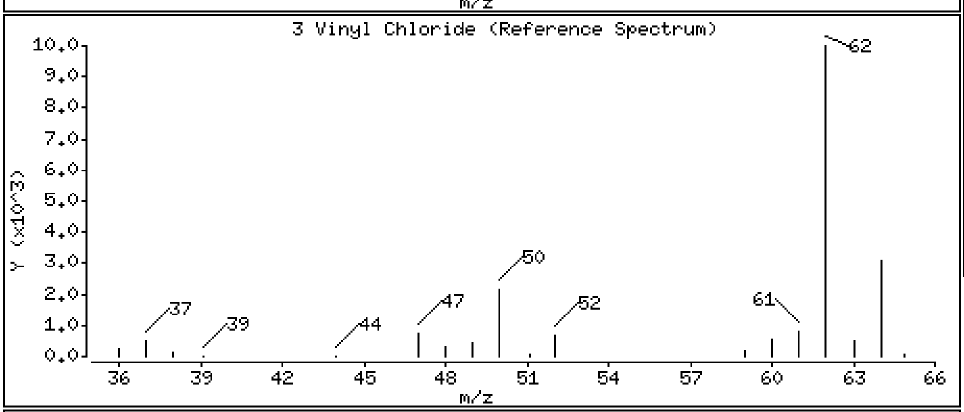
Review Code:

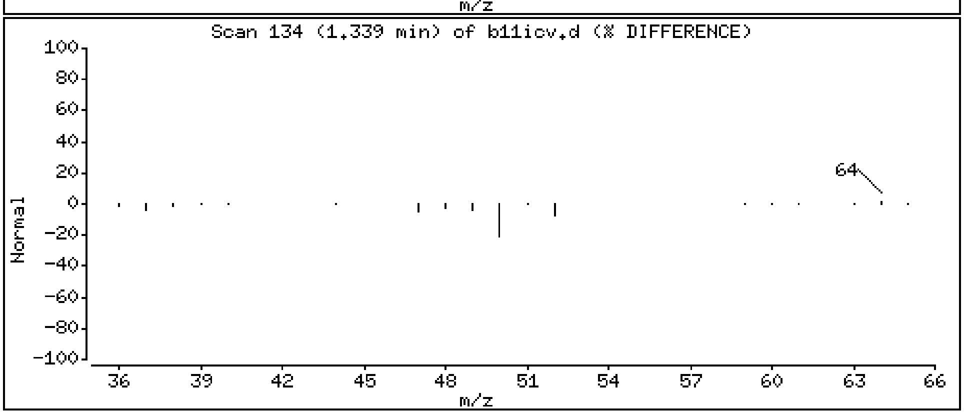












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

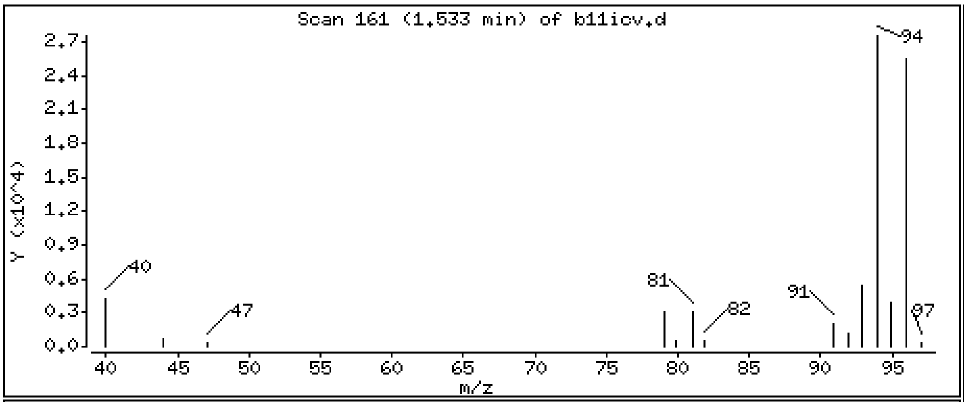
Column phase: DB-624

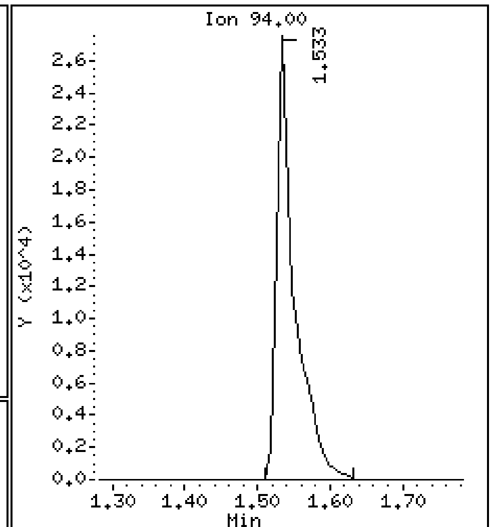
Column diameter: 0.18

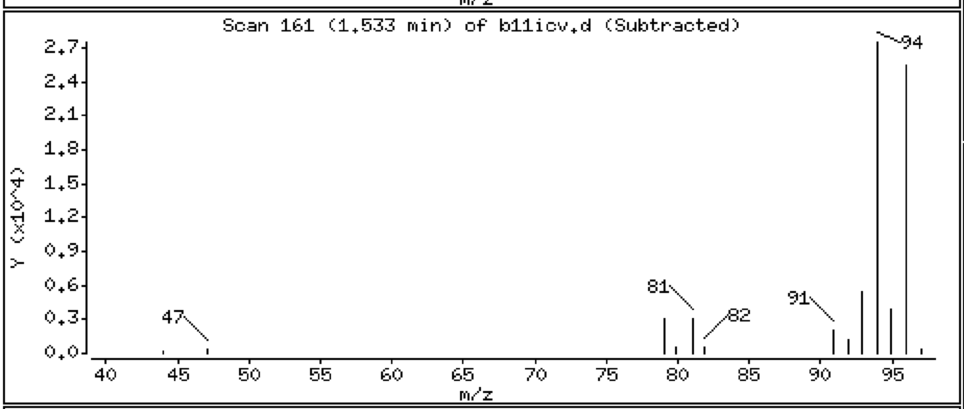
4 Bromomethane

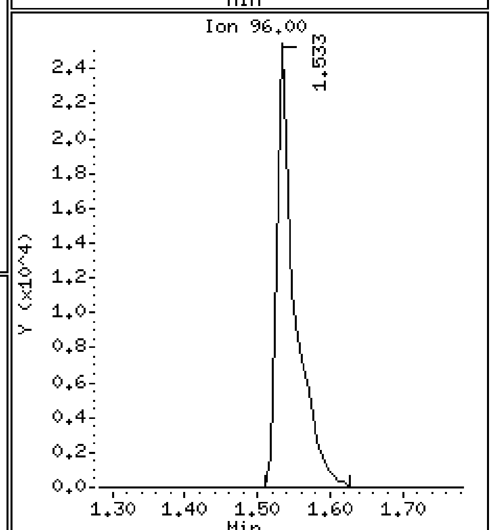
Concentration: 56.4 ppb

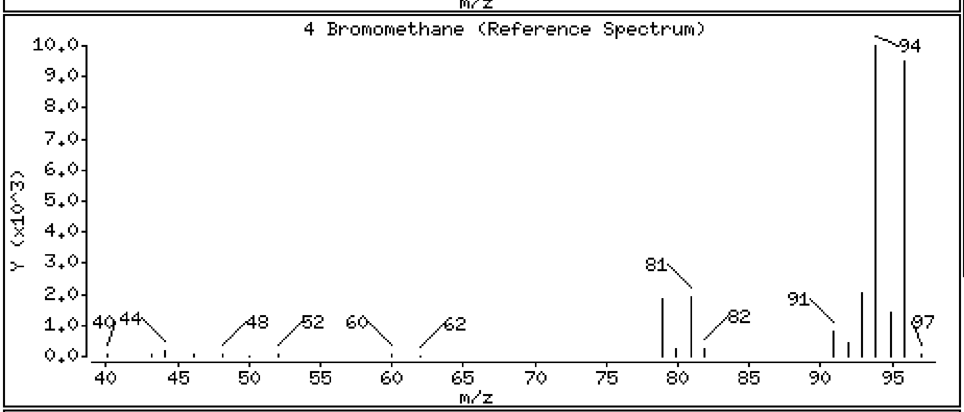
Review Code:

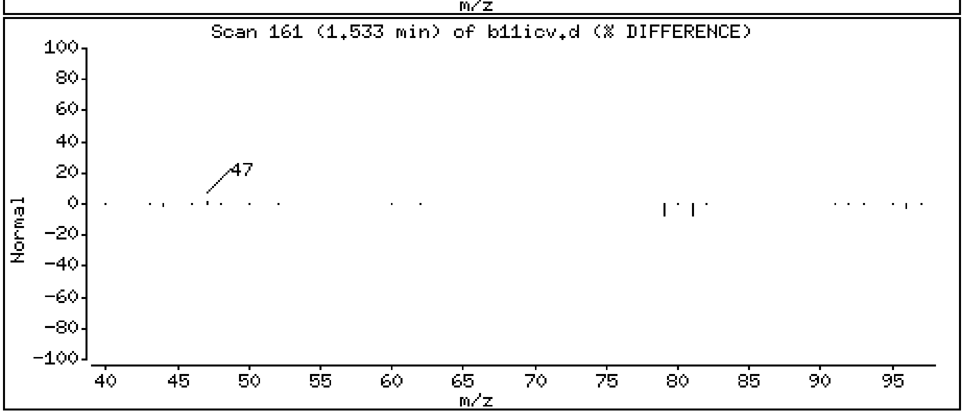












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

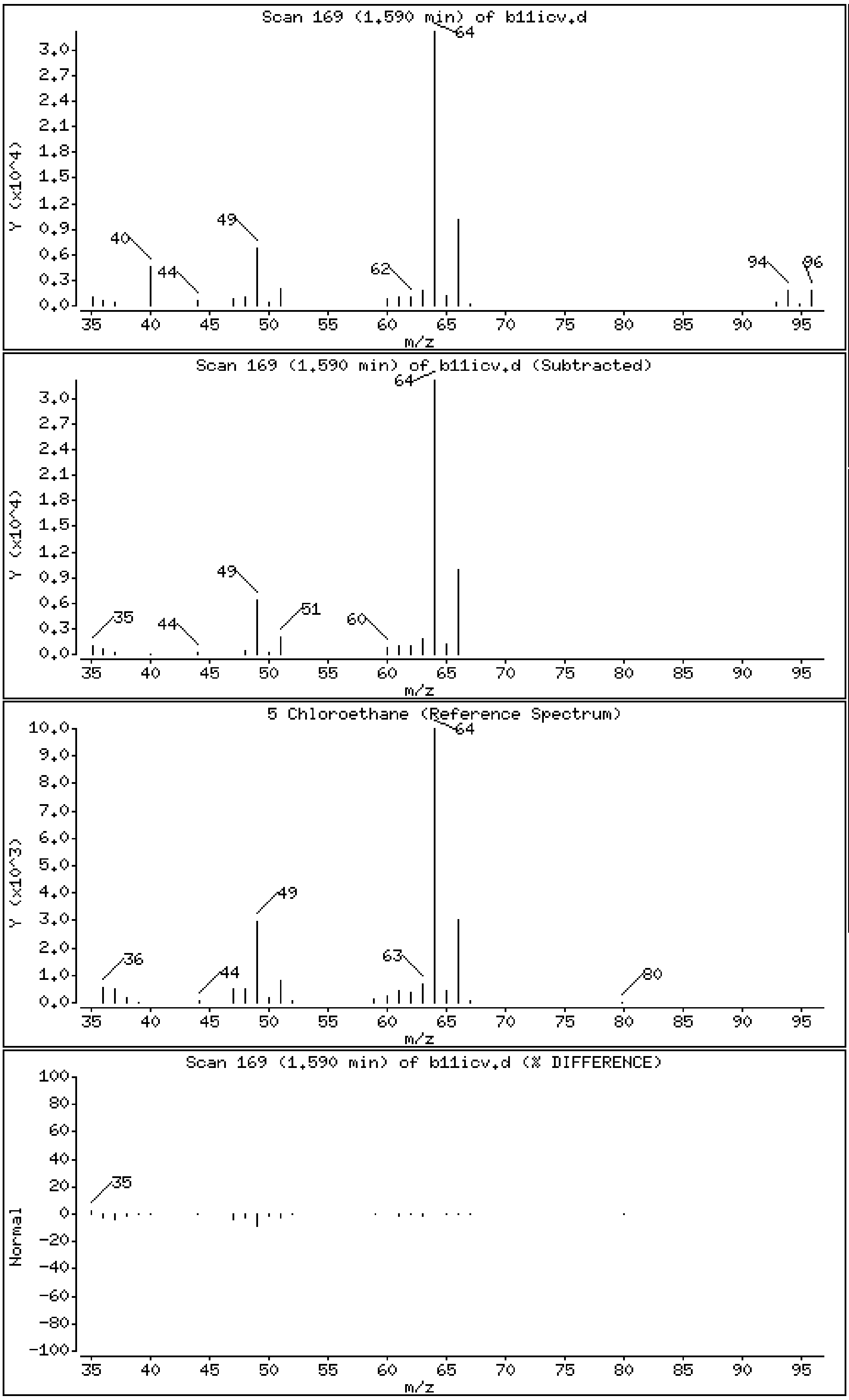
Column phase: DB-624

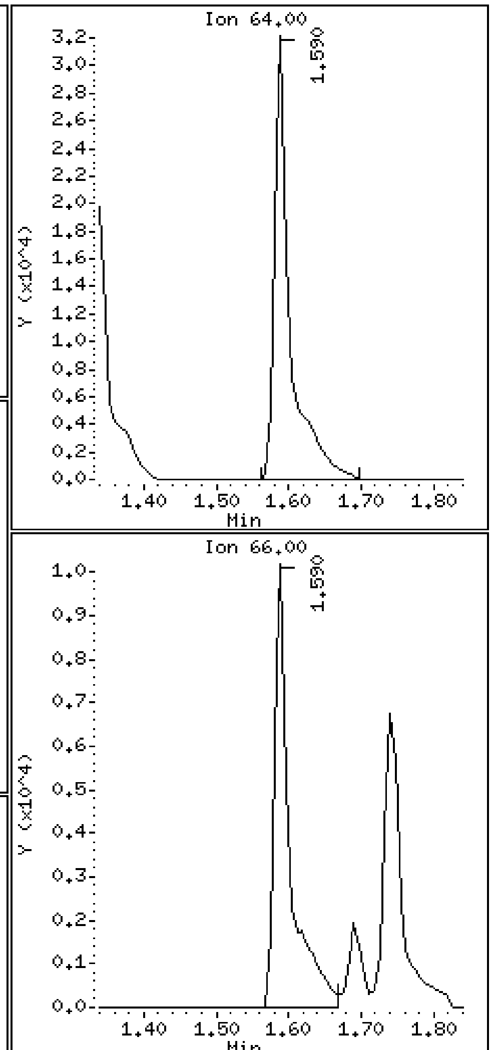
Column diameter: 0.18

5 Chloroethane

Concentration: 46.8 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

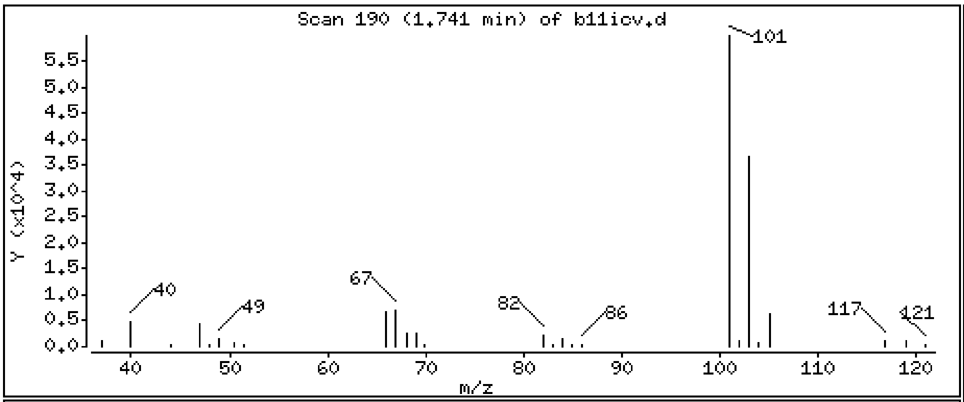
Column phase: DB-624

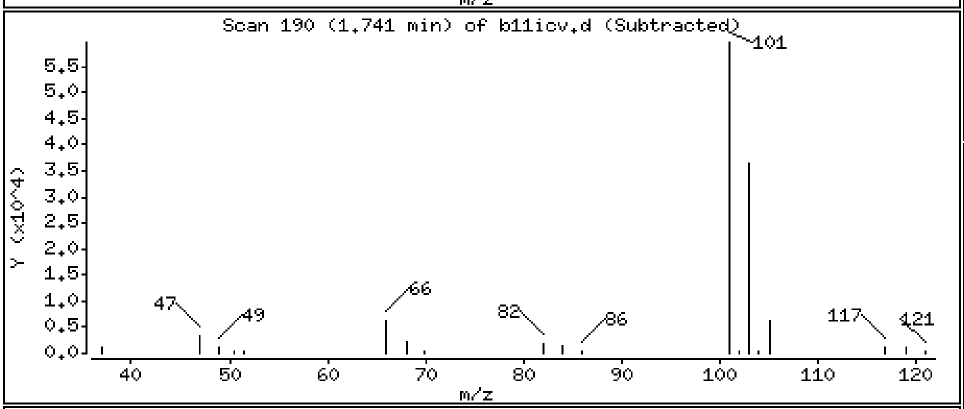
Column diameter: 0.18

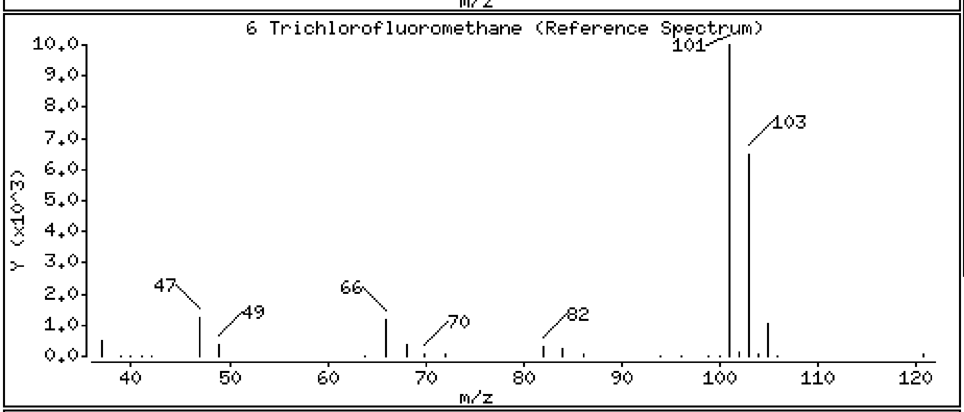
6 Trichlorofluoromethane

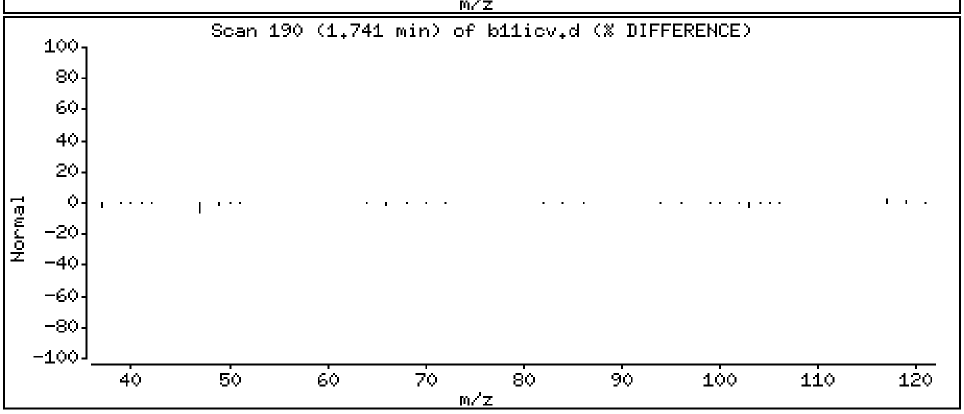
Concentration: 47.7 ppb

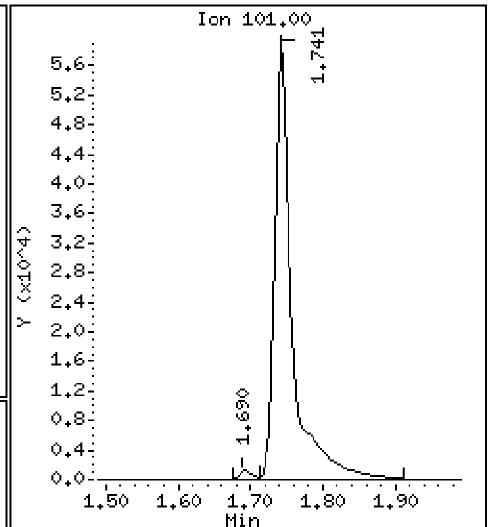
Review Code:

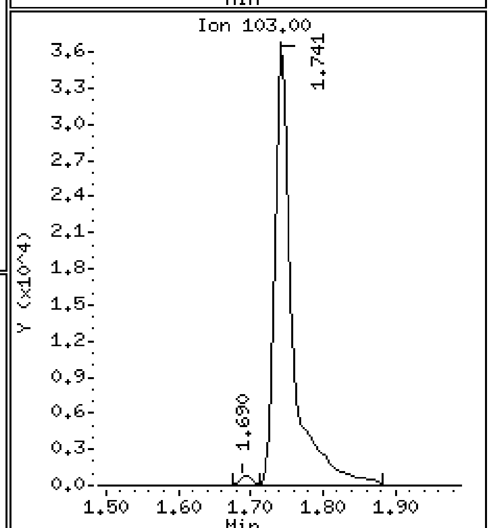












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Date : 16-JAN-2023 19:47

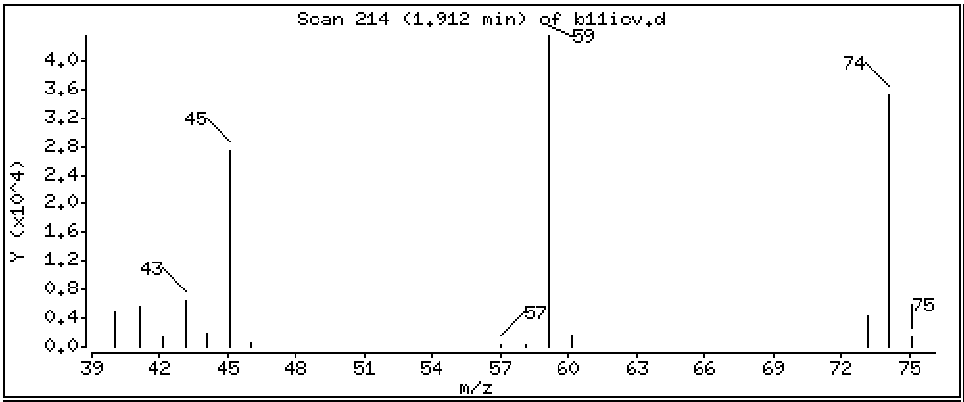
Client ID: 8260-ICV Instrument: 50mvcb.i

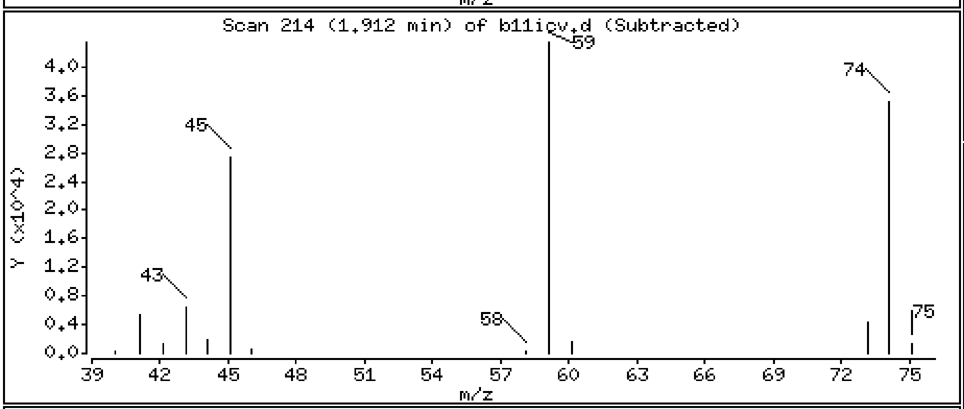
Sample Info: 8260-ICV,335770:0

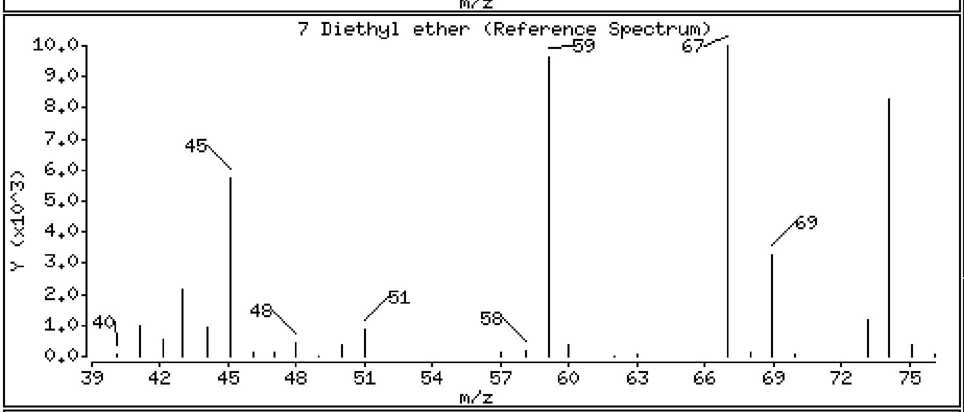
Purge Volume: 5.0 Operator: DAP

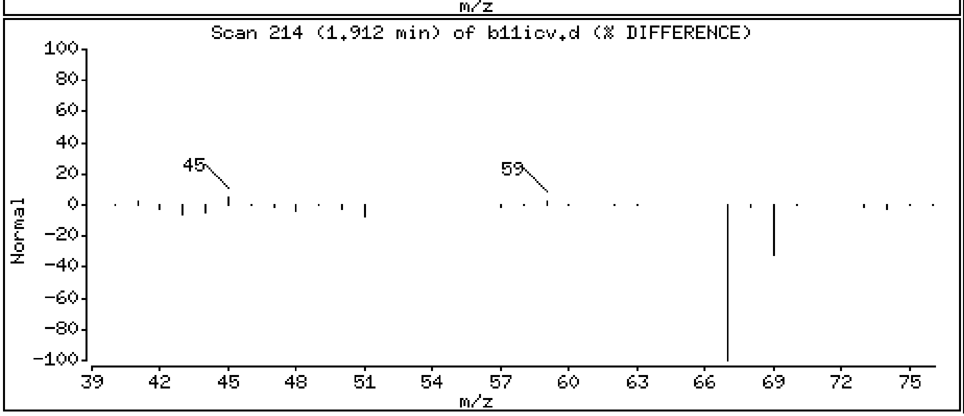
Column phase: DB-624 Column diameter: 0.18

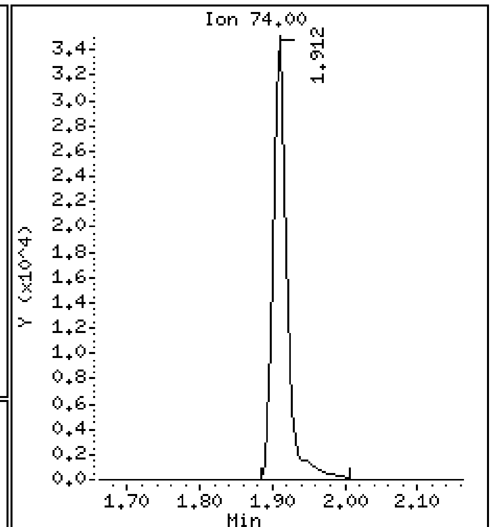
7 Diethyl ether Concentration: 48.4 ppb Review Code:

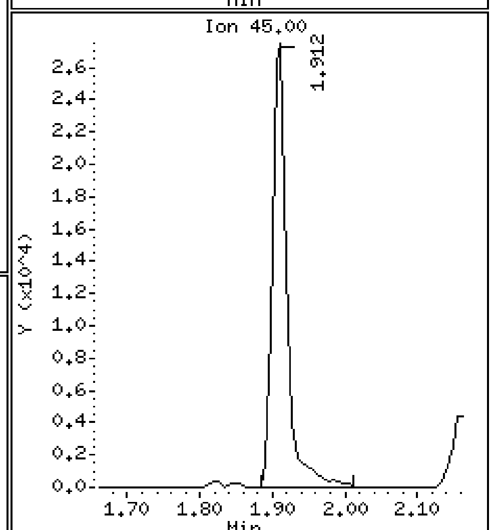


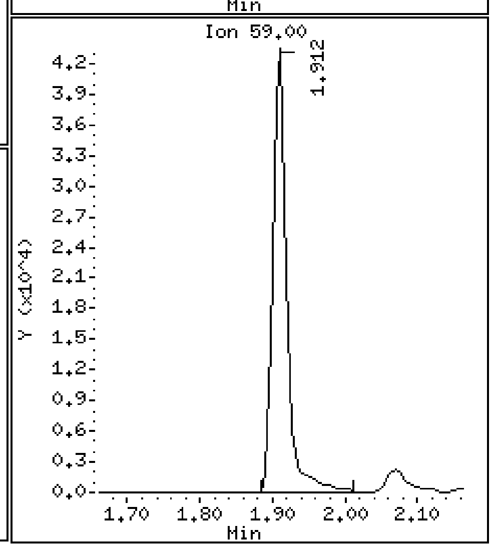












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

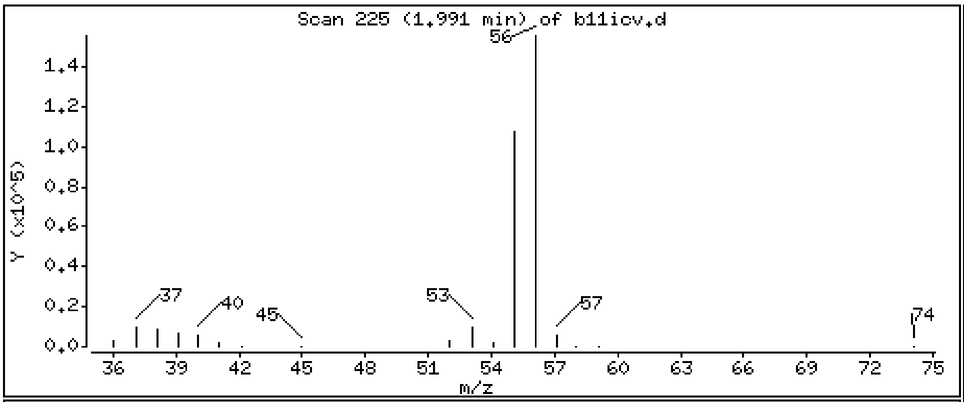
Column phase: DB-624

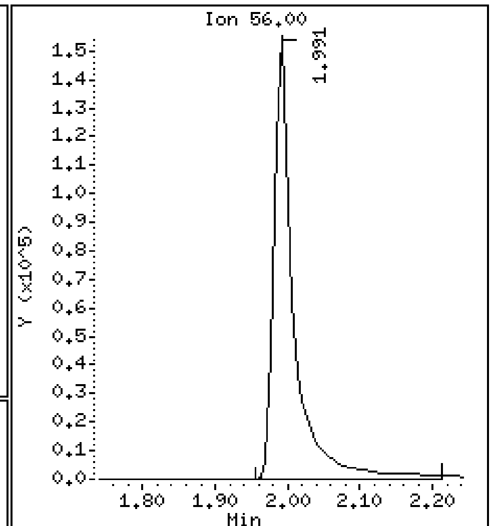
Column diameter: 0.18

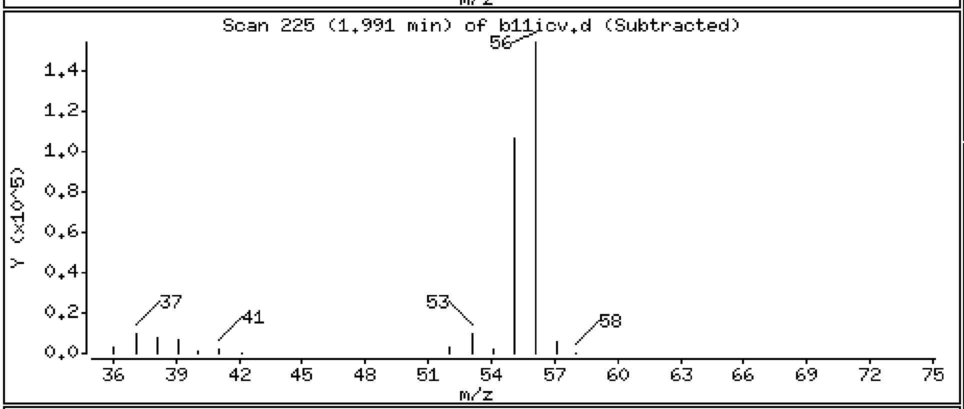
8 Acrolein

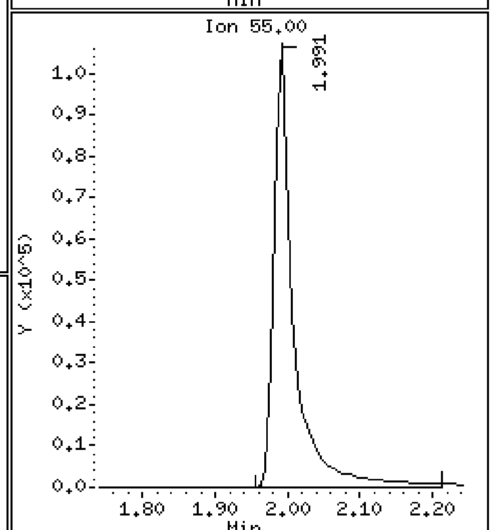
Concentration: 968 ppb

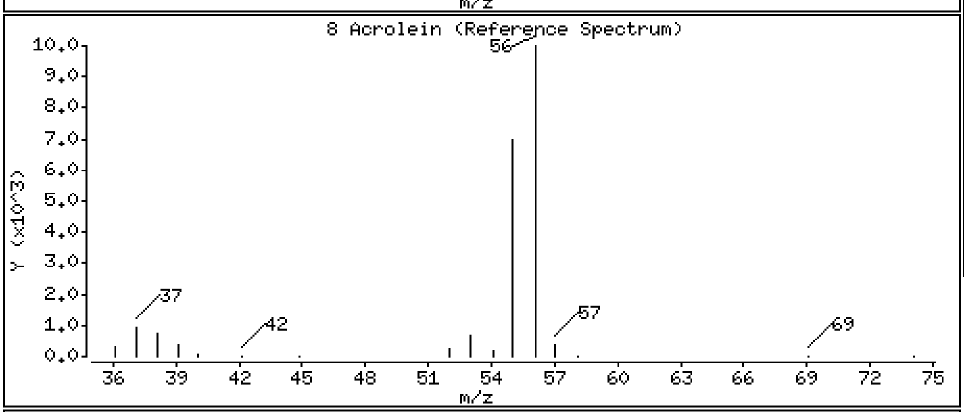
Review Code:

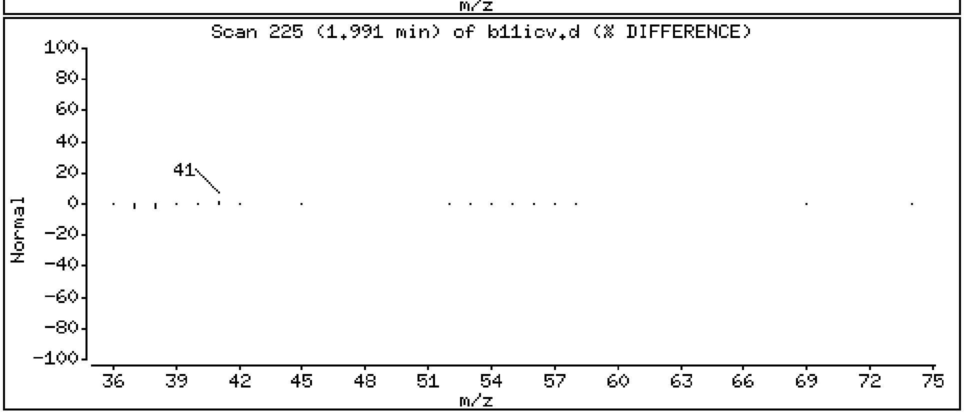












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

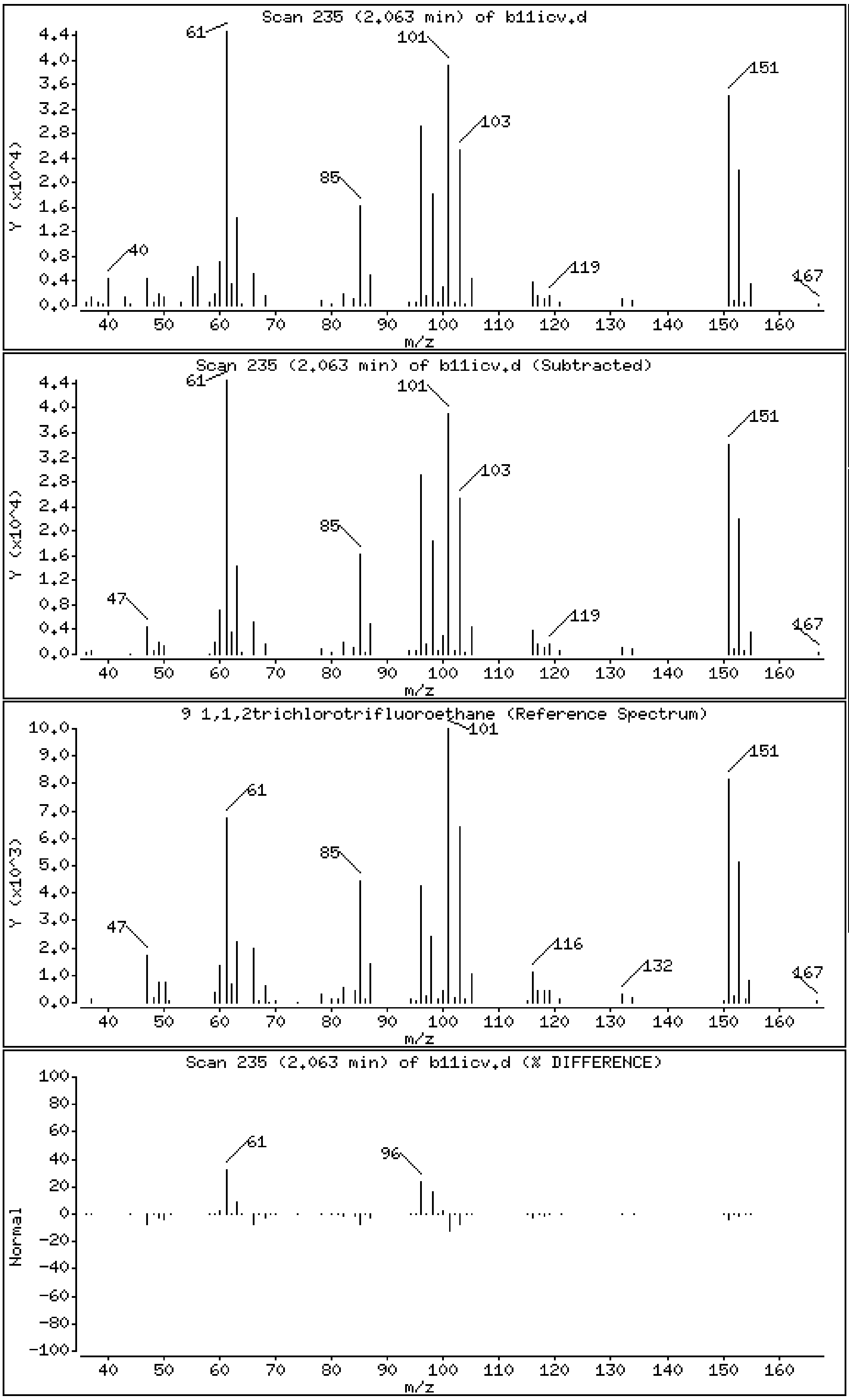
Column phase: DB-624

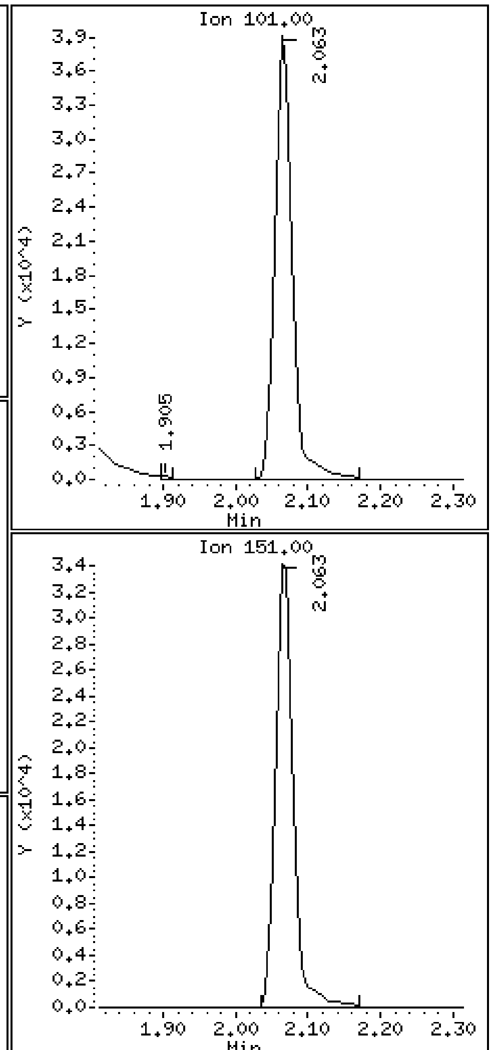
Column diameter: 0.18

9 1,1,2trichlorotrifluoroethane

Concentration: 47.0 ppb

Review Code:





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Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

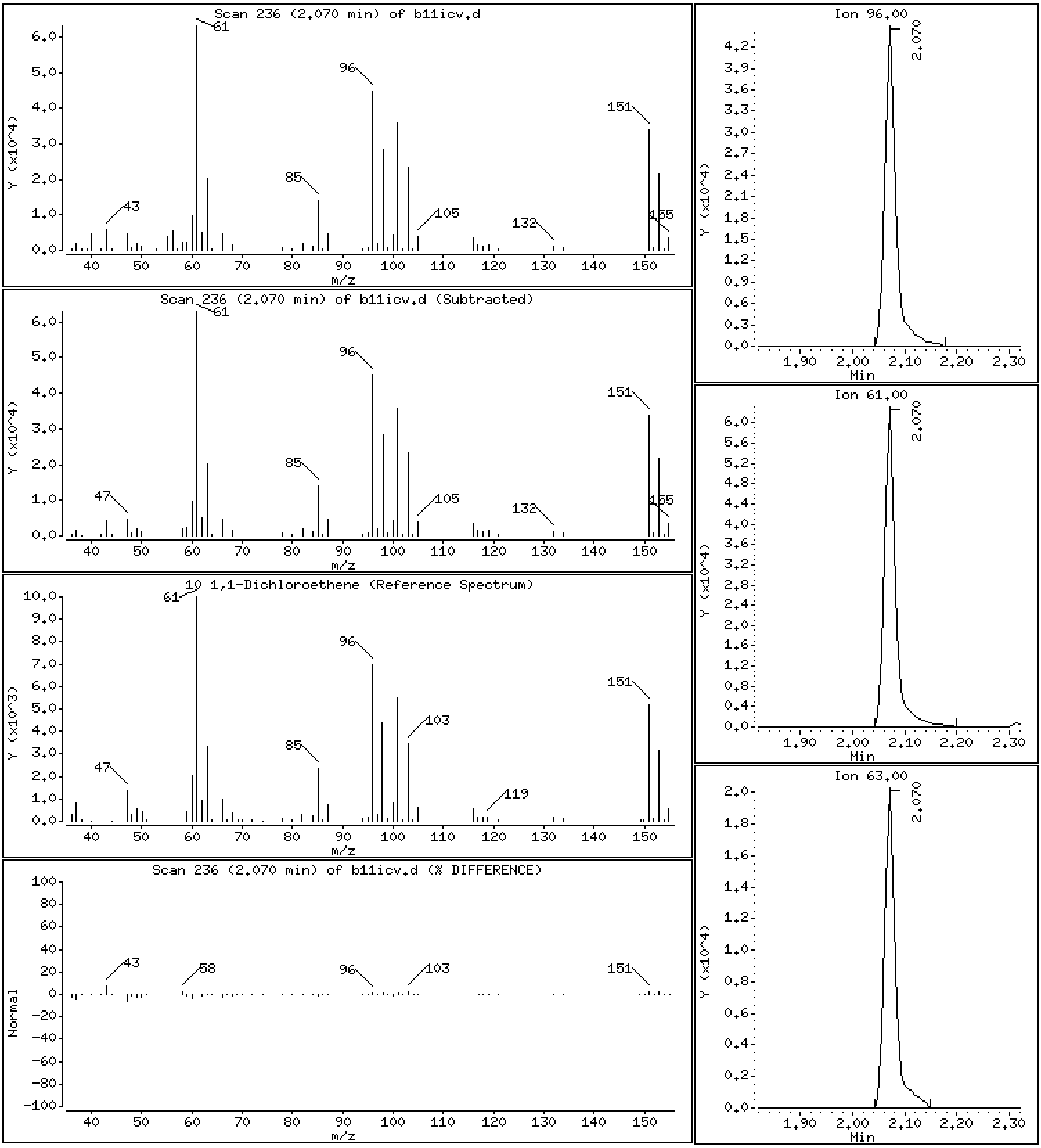
Column phase: DB-624

Column diameter: 0.18

10 1,1-Dichloroethene

Concentration: 47.6 ppb

Review Code:



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Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

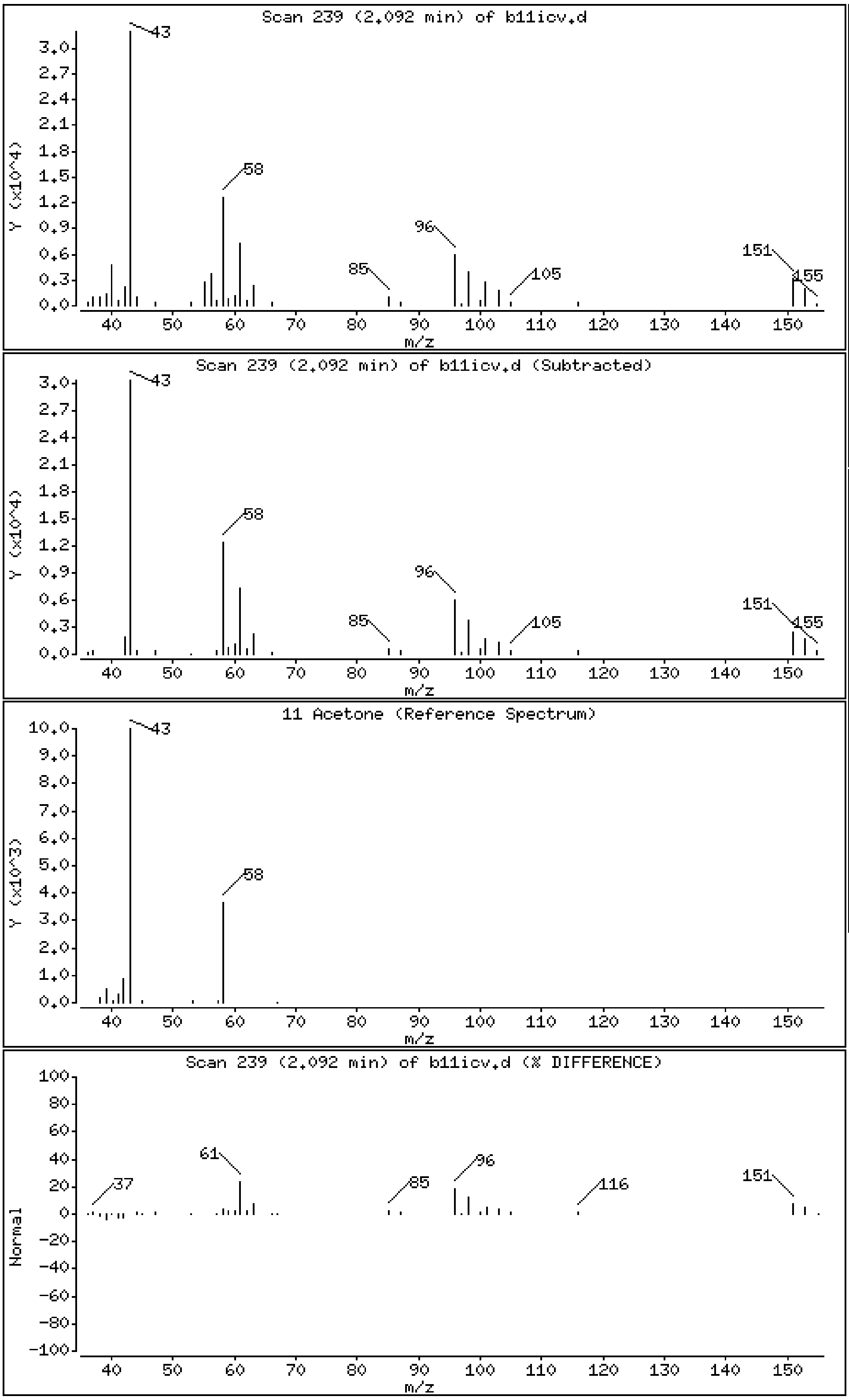
Column phase: DB-624

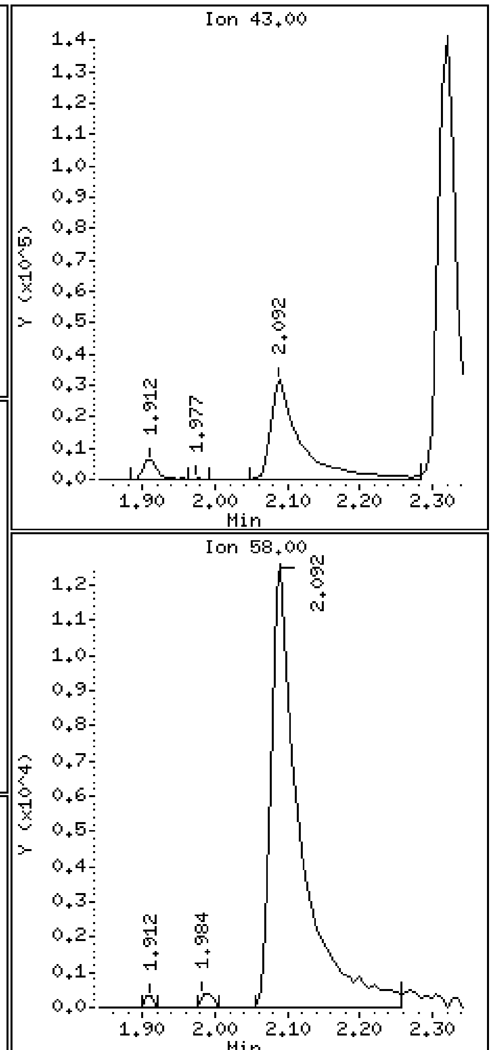
Column diameter: 0.18

11 Acetone

Concentration: 207 ppb

Review Code:





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Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

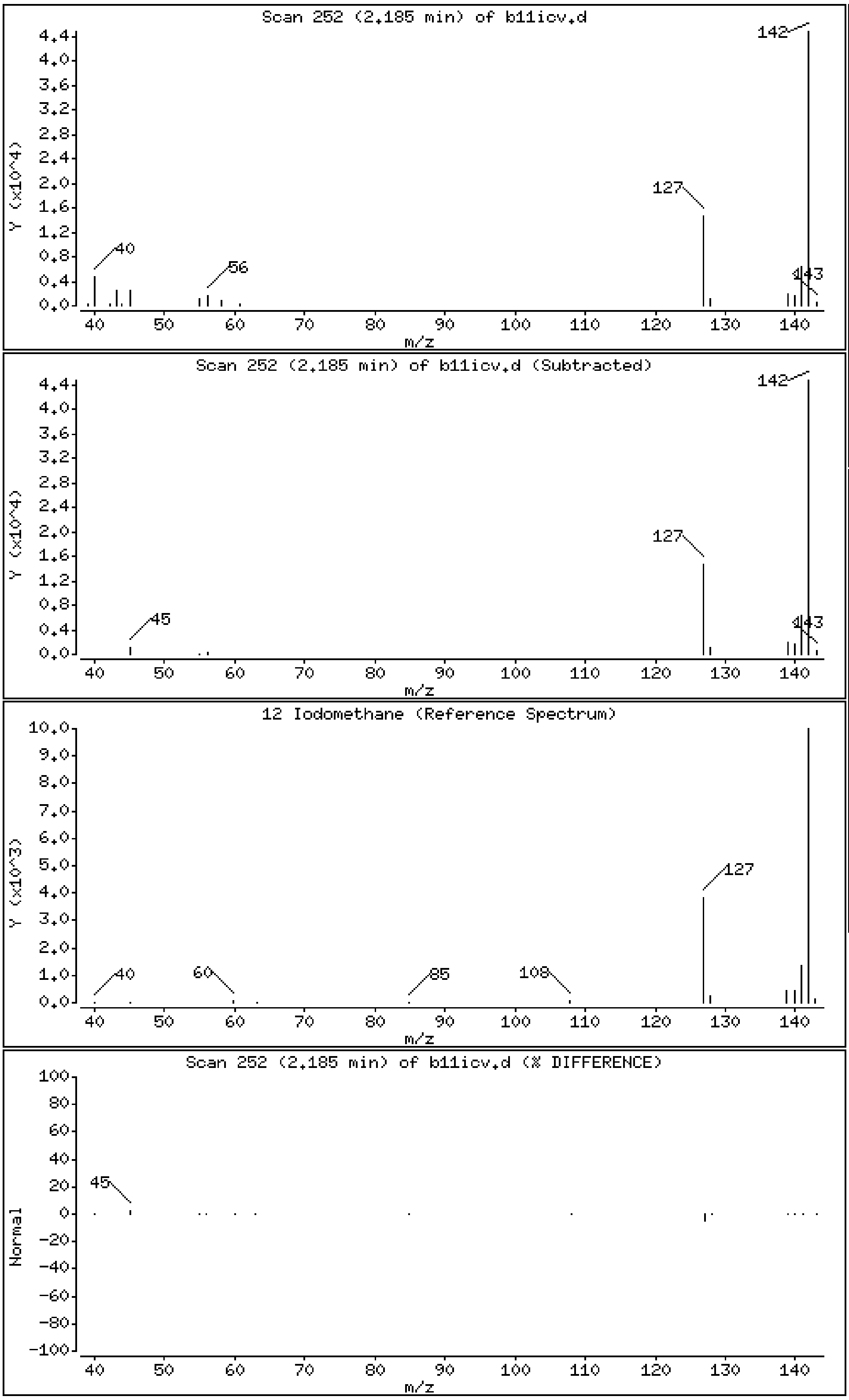
Column phase: DB-624

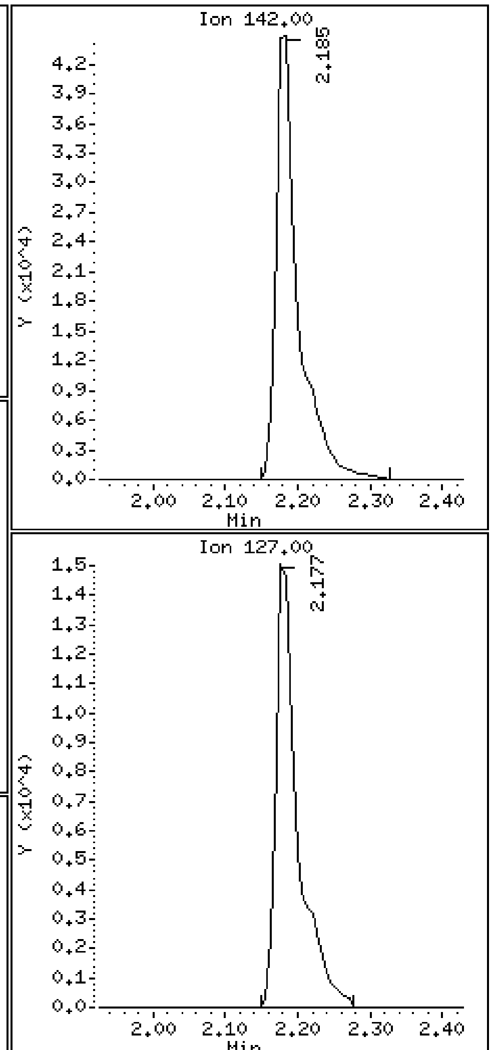
Column diameter: 0.18

12 Iodomethane

Concentration: 48.5 ppb

Review Code:





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Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

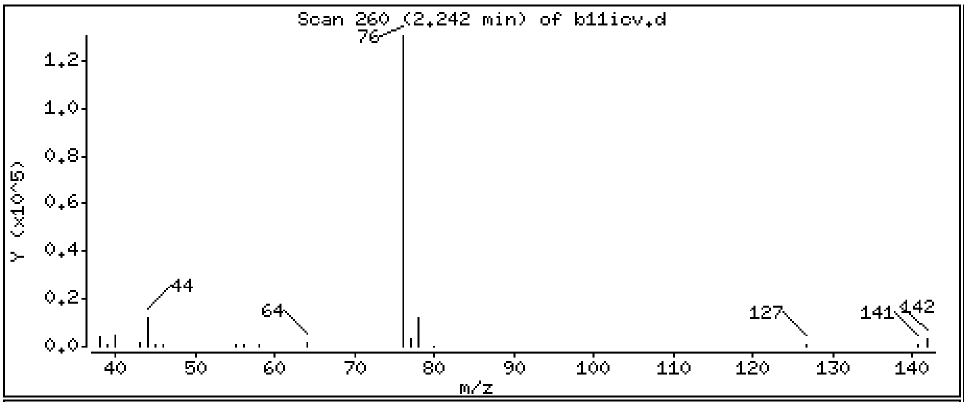
Column phase: DB-624

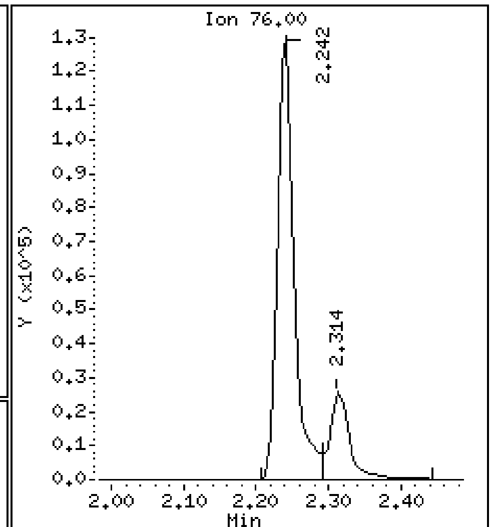
Column diameter: 0.18

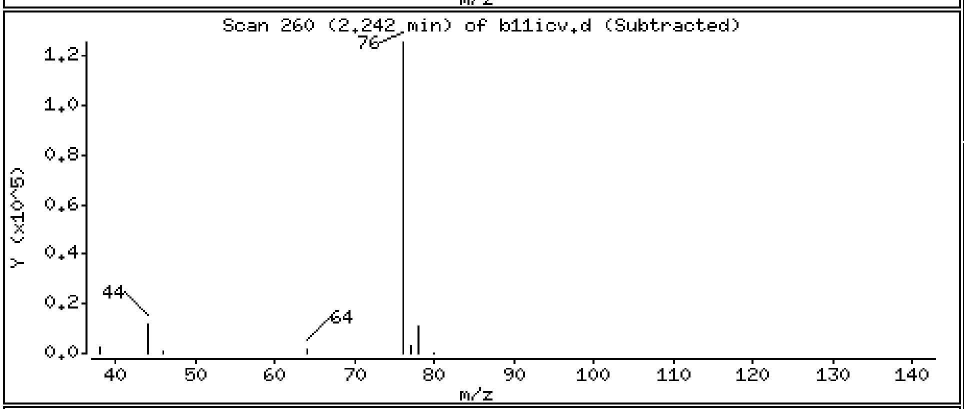
13 Carbon Disulfide

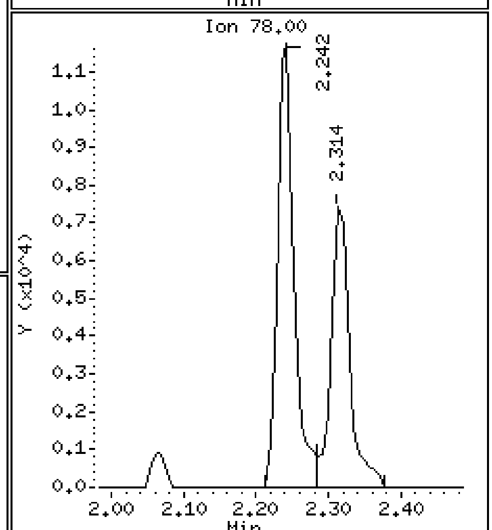
Concentration: 45.8 ppb

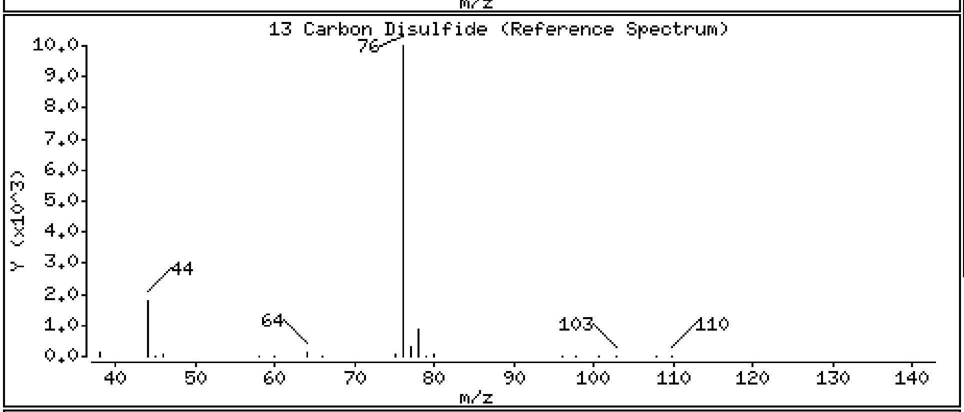
Review Code:

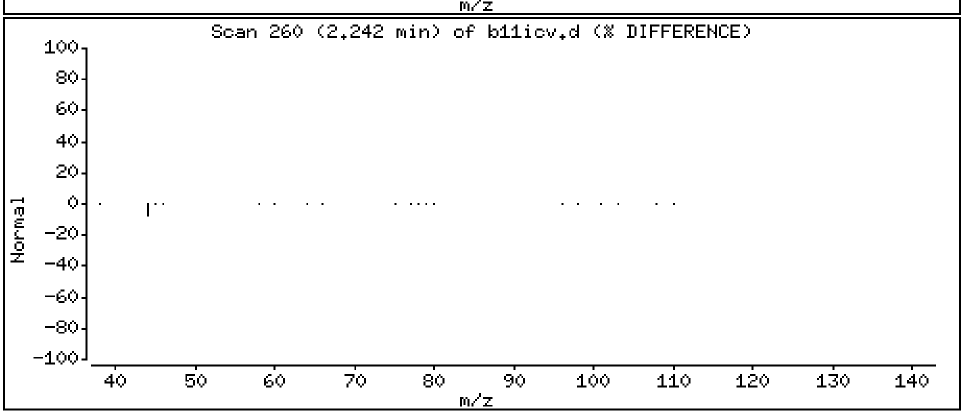












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

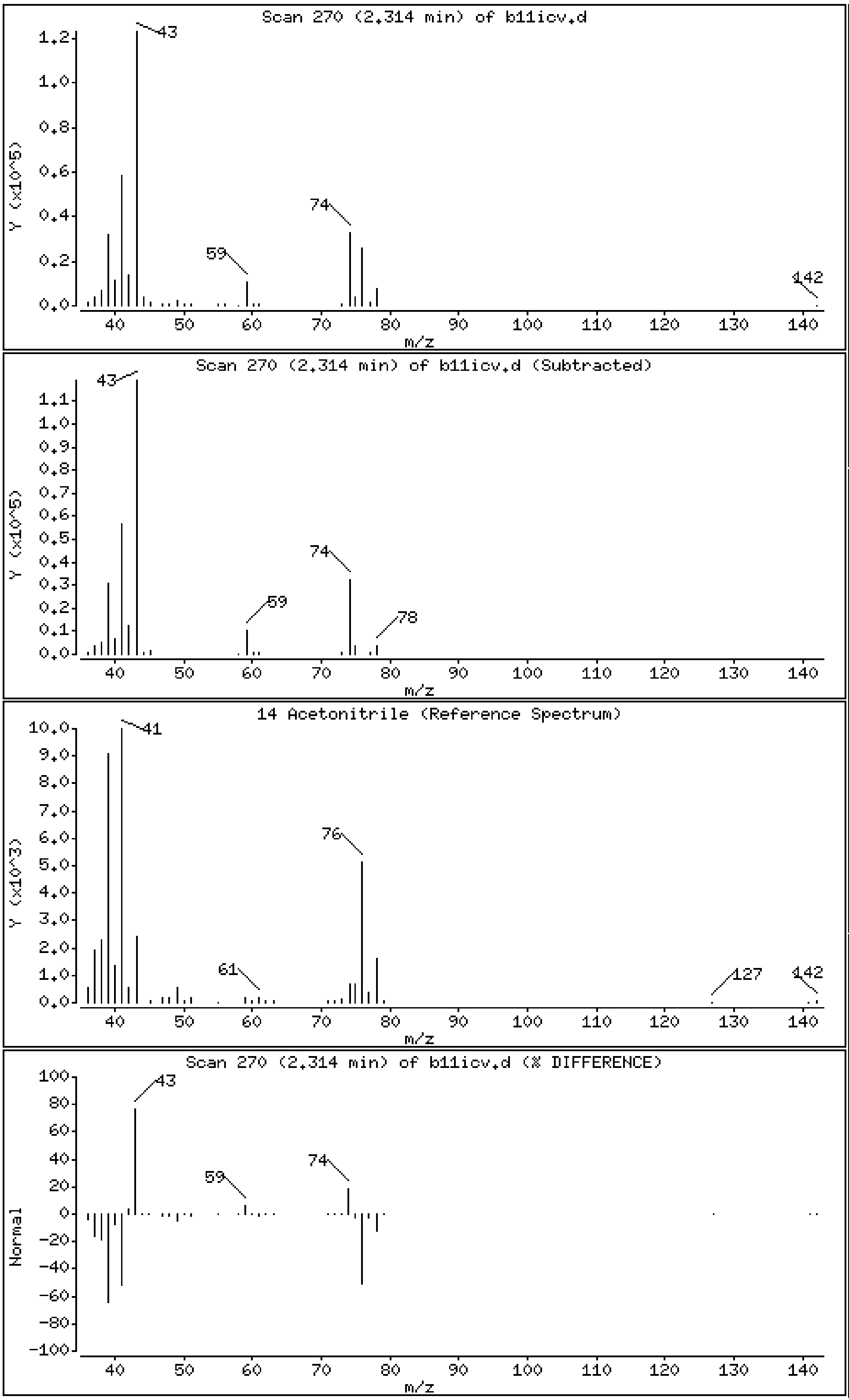
Column phase: DB-624

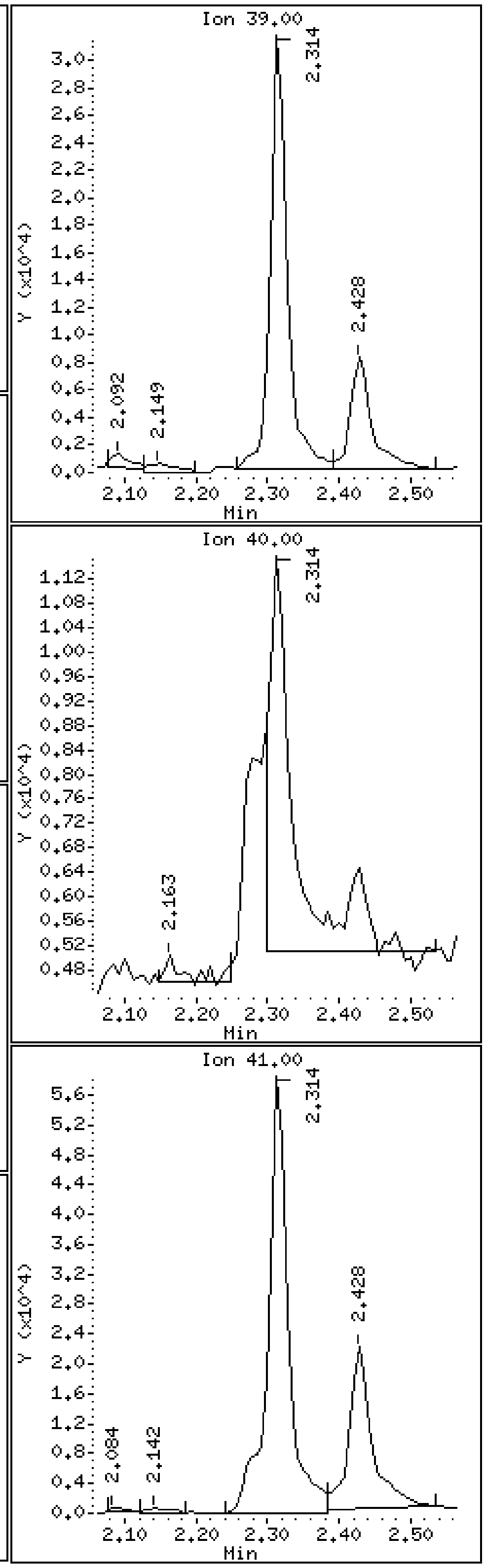
Column diameter: 0.18

14 Acetonitrile

Concentration: 243 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

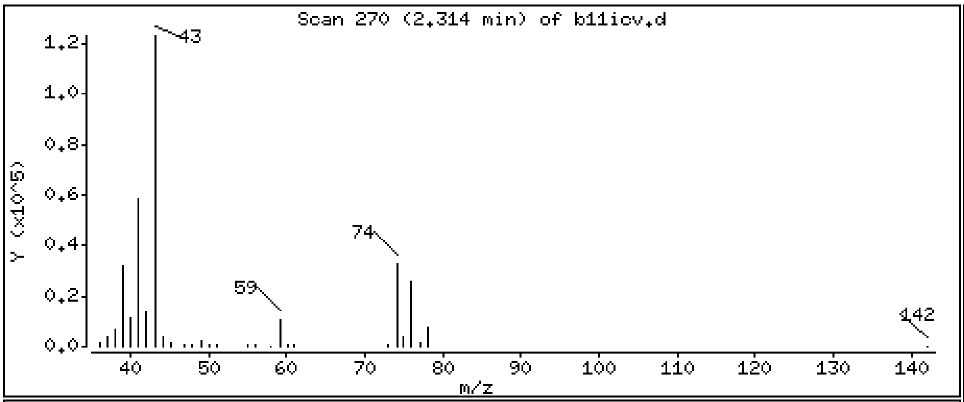
Column phase: DB-624

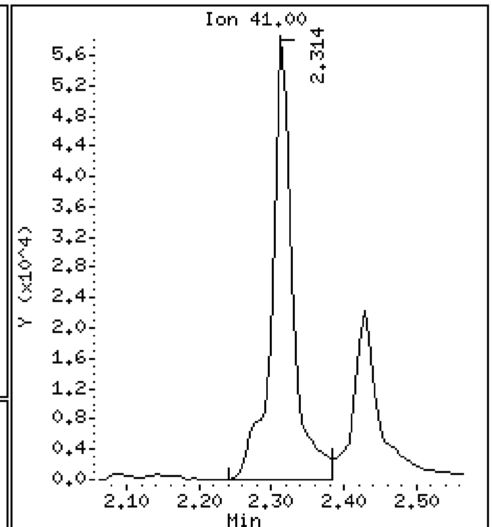
Column diameter: 0.18

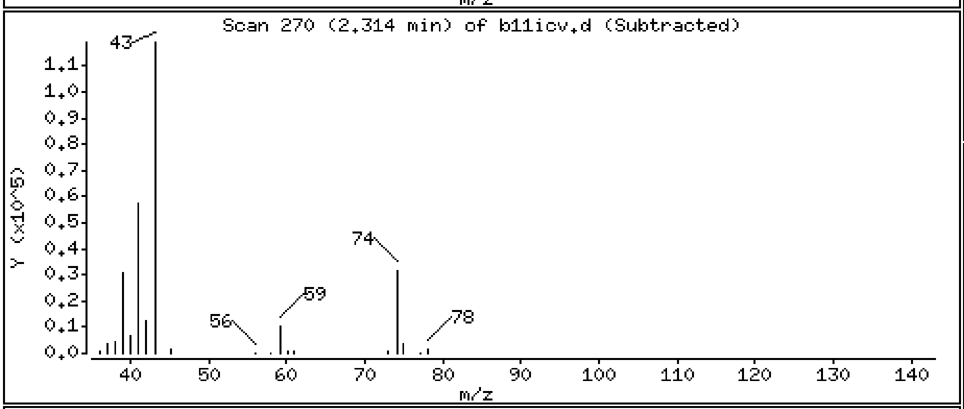
15 allyl chloride

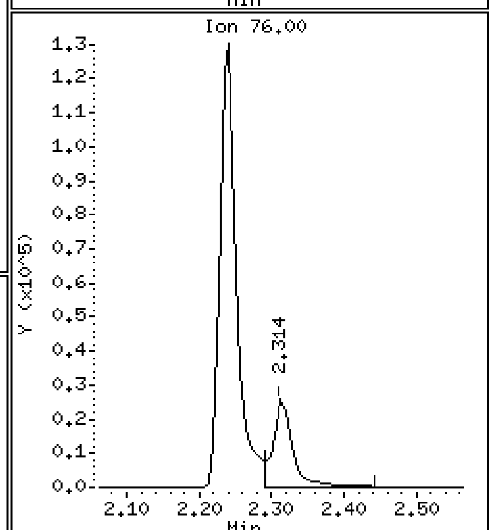
Concentration: 46.1 ppb

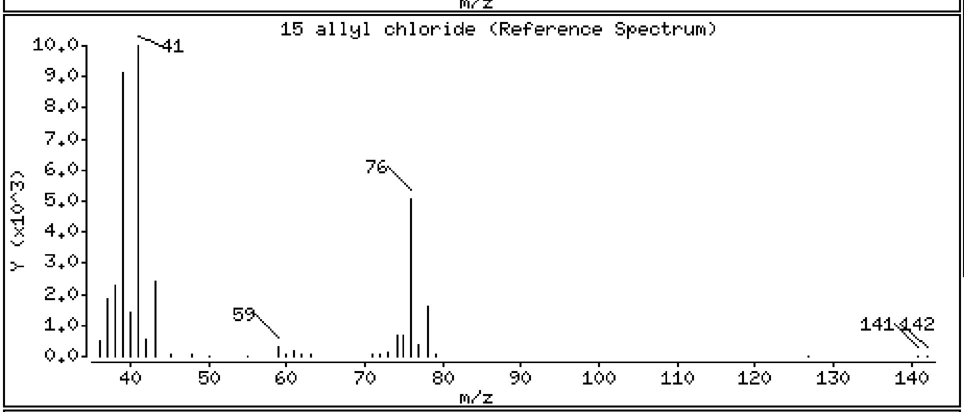
Review Code:

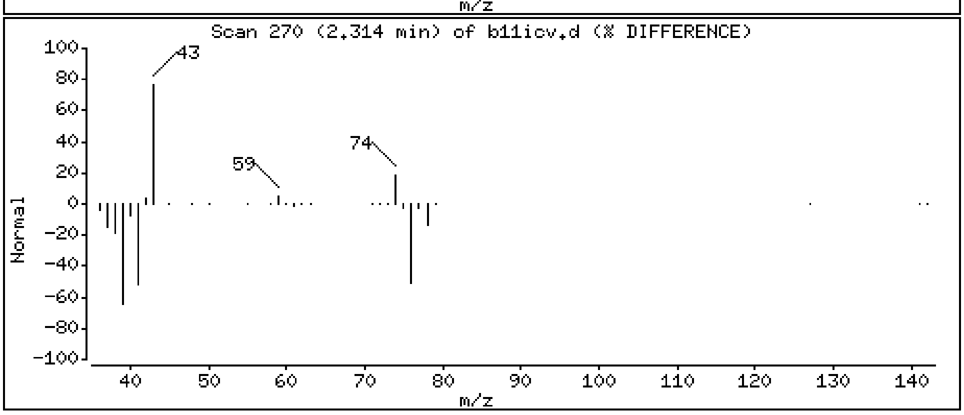












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

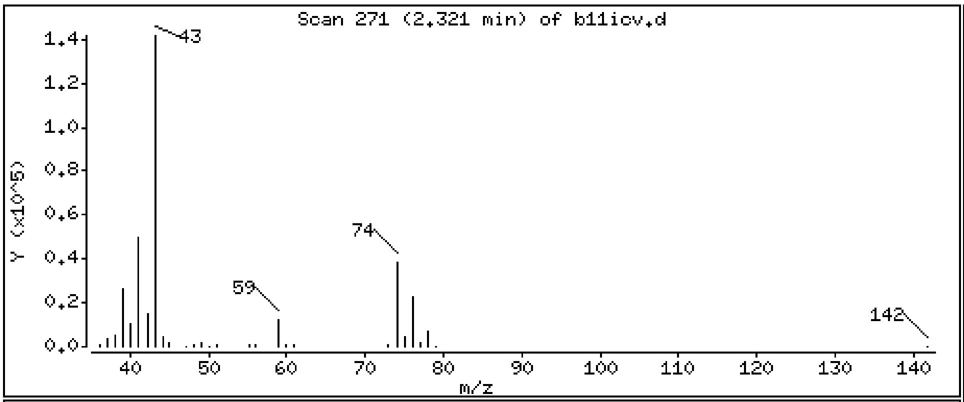
Column phase: DB-624

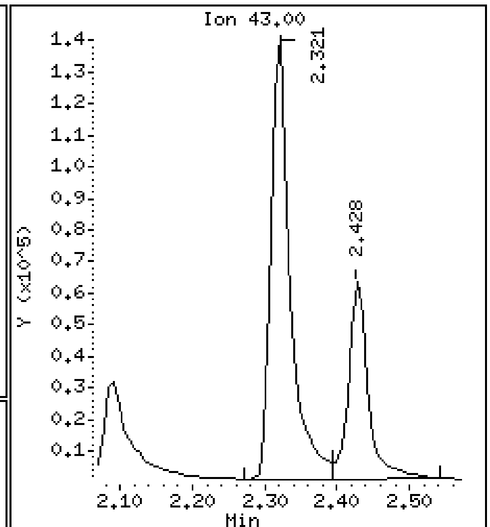
Column diameter: 0.18

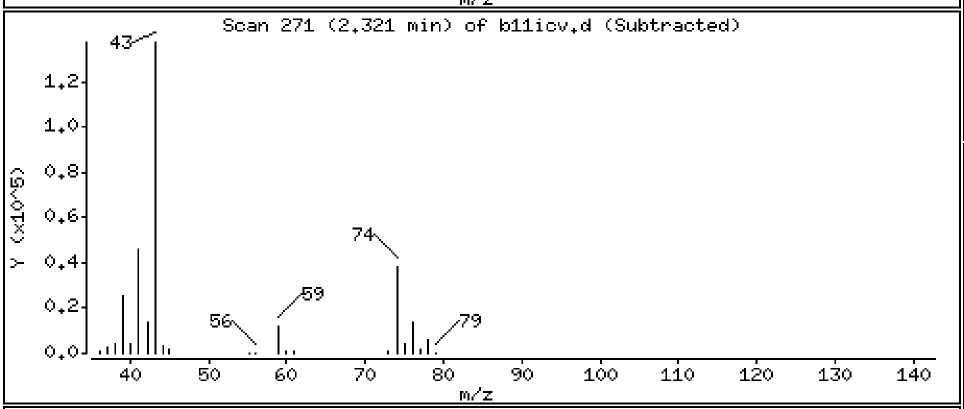
16 Methyl Acetate

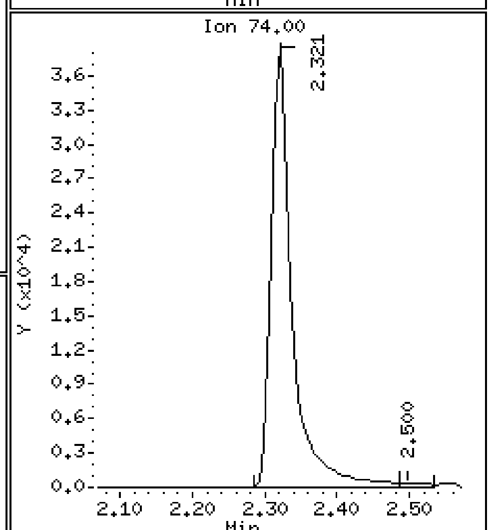
Concentration: 215 ppb

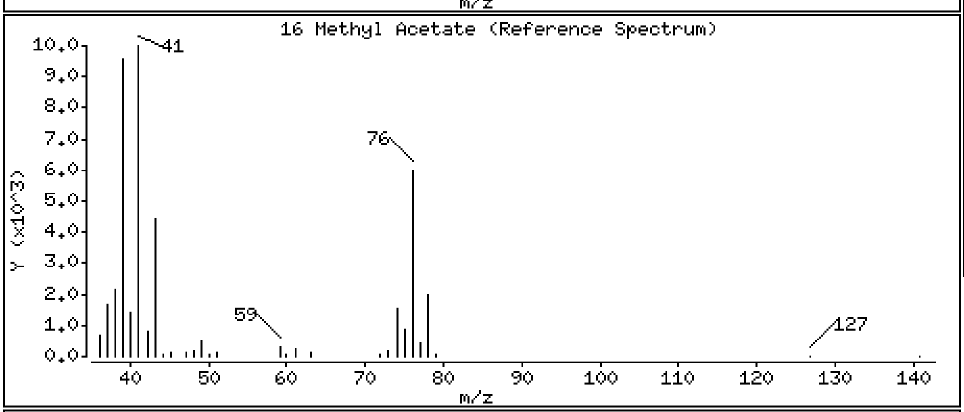
Review Code:

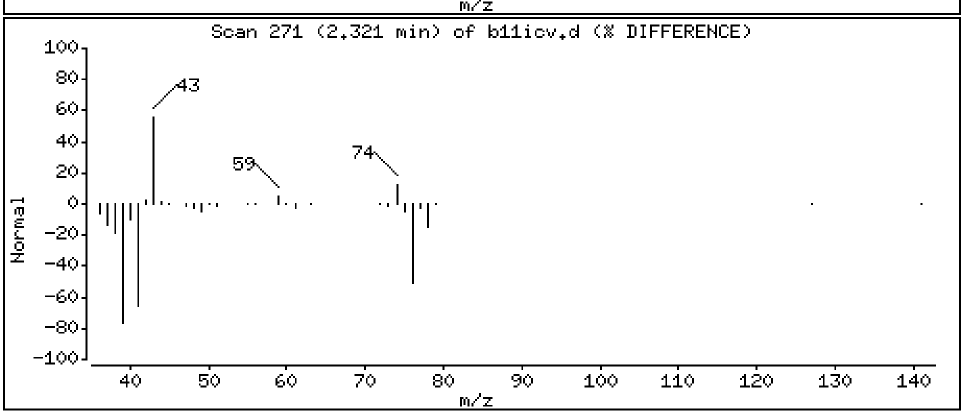












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

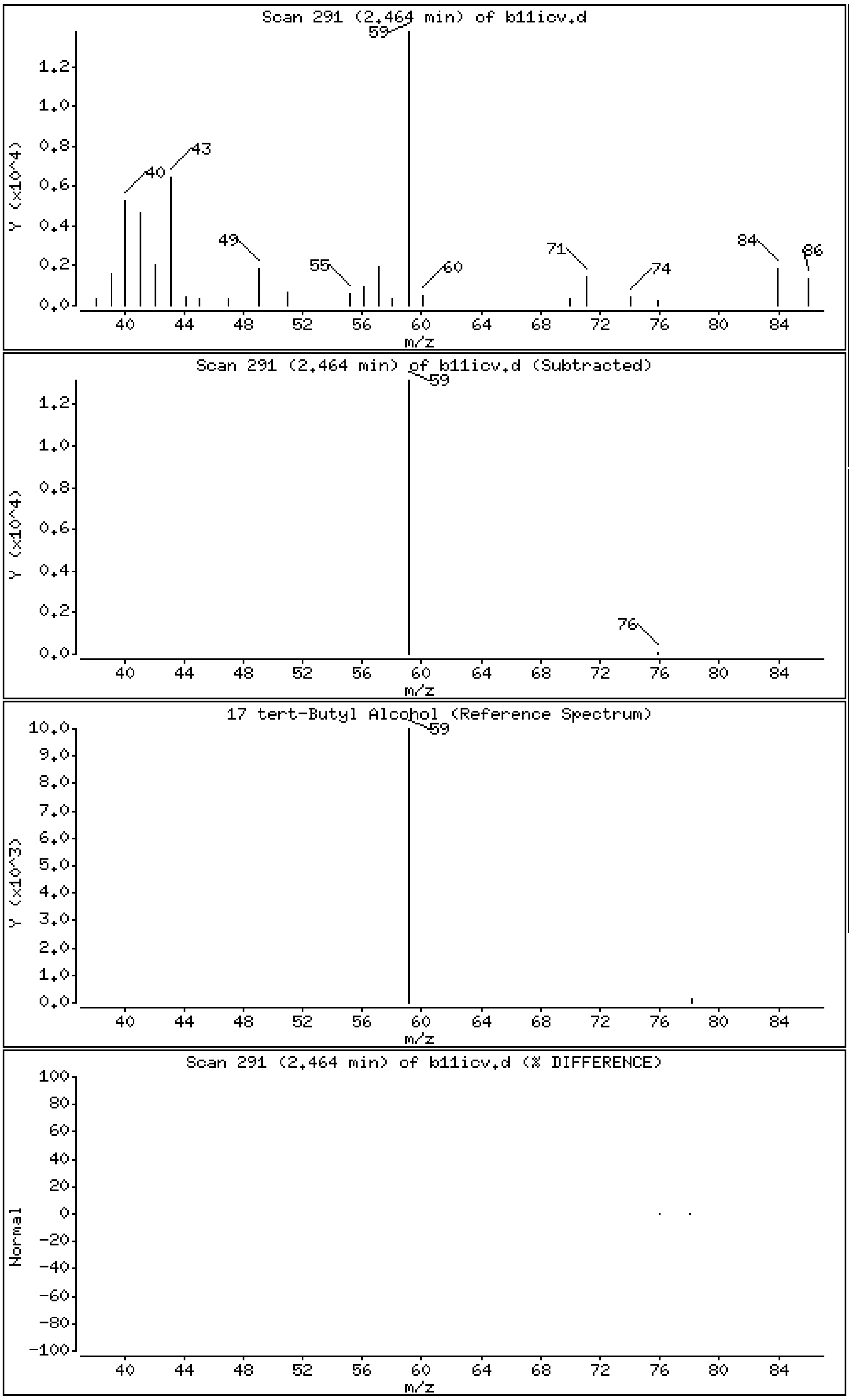
Column phase: DB-624

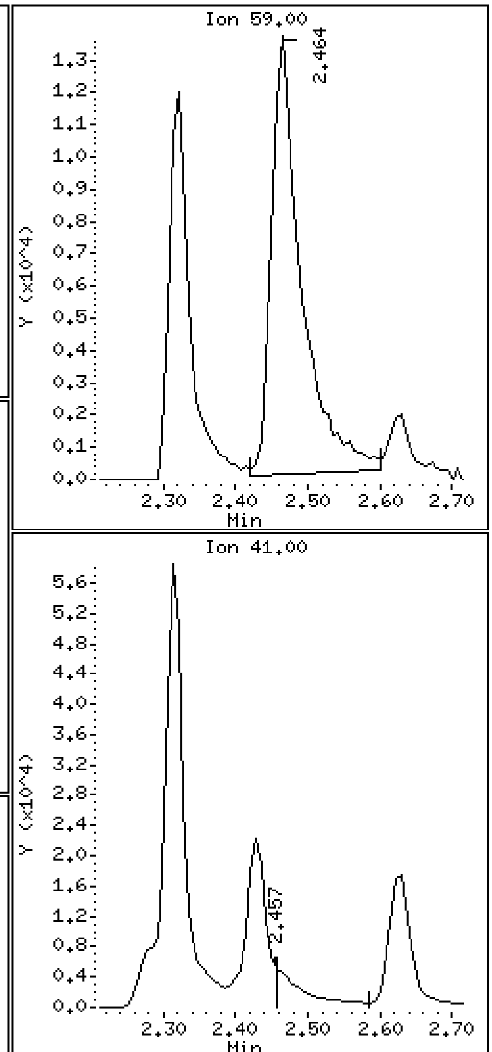
Column diameter: 0.18

17 tert-Butyl Alcohol

Concentration: 326 ppb

Review Code: LT





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

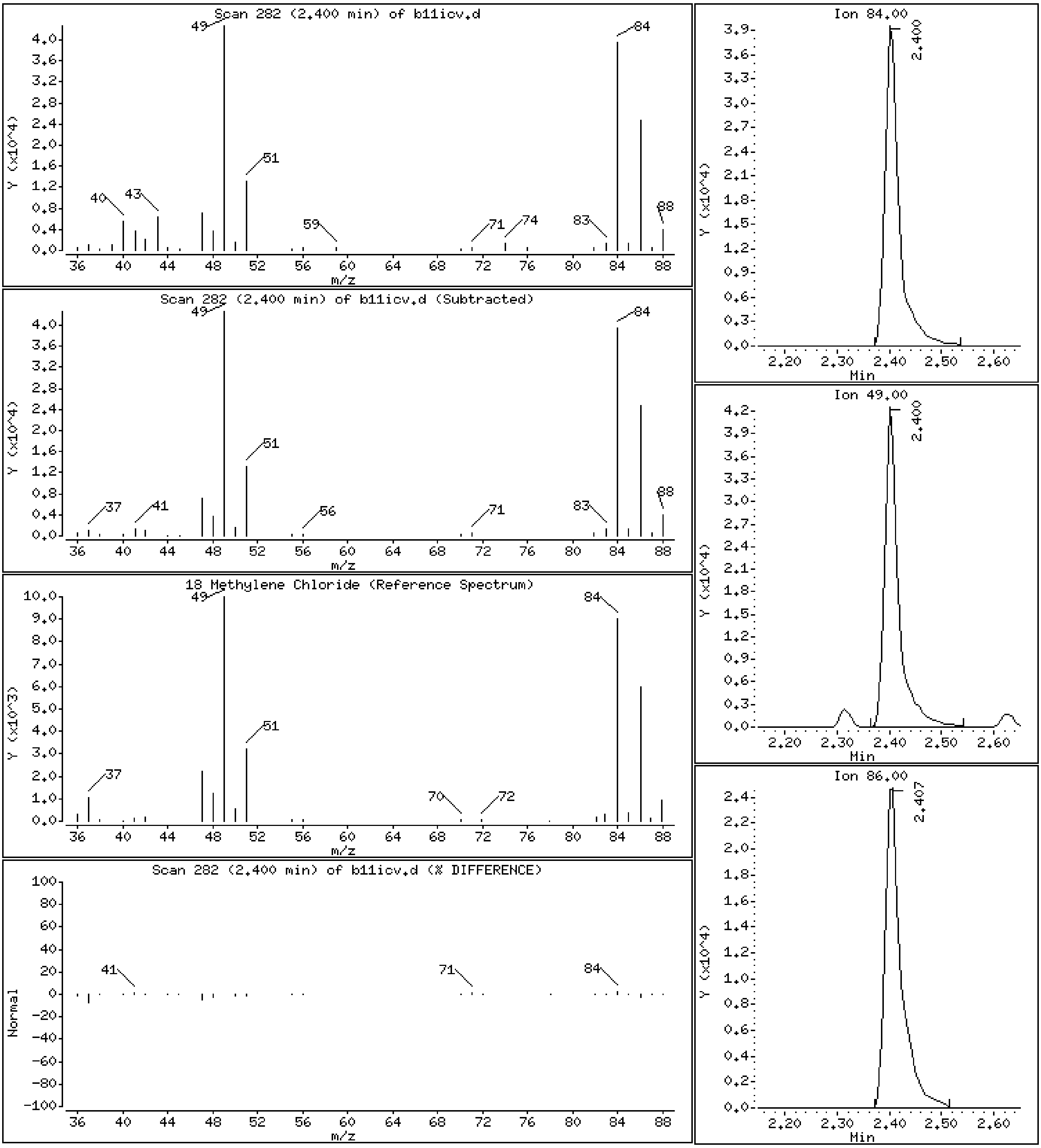
Column phase: DB-624

Column diameter: 0.18

18 Methylene Chloride

Concentration: 49.1 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

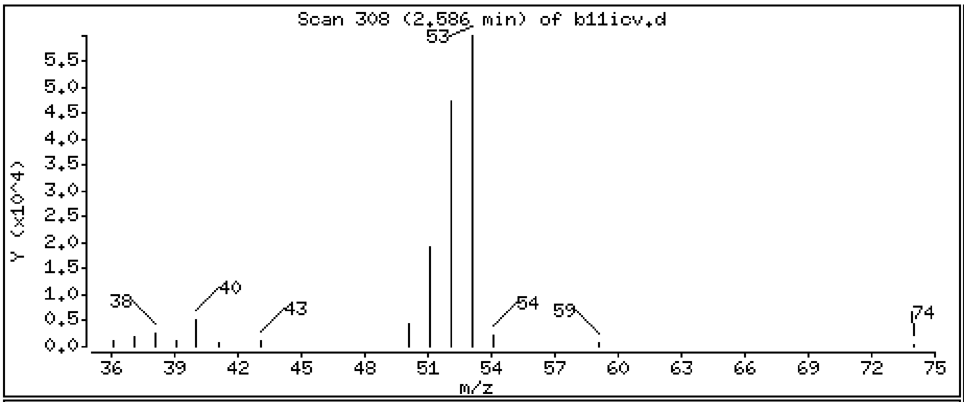
Column phase: DB-624

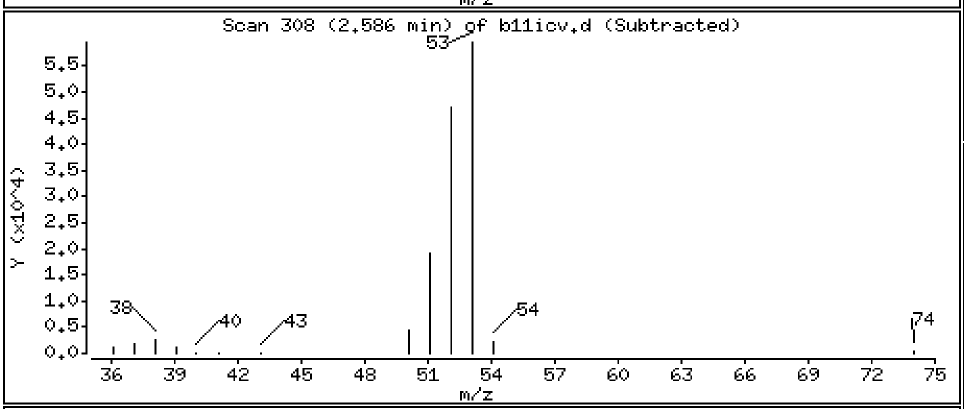
Column diameter: 0.18

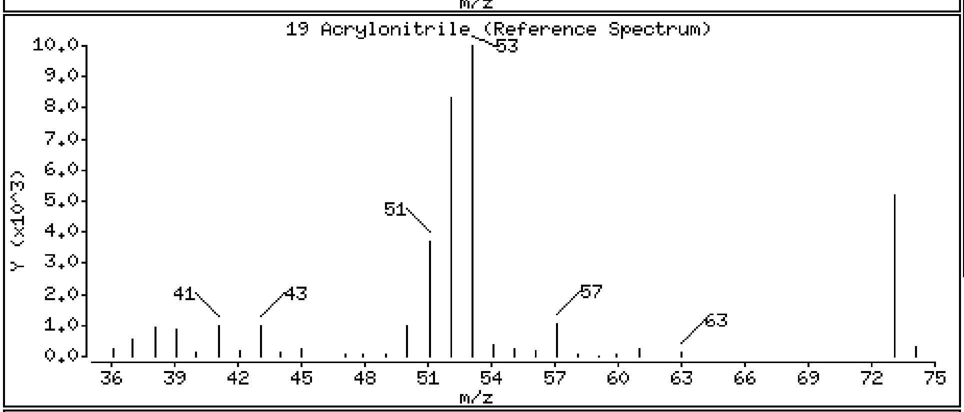
19 Acrylonitrile

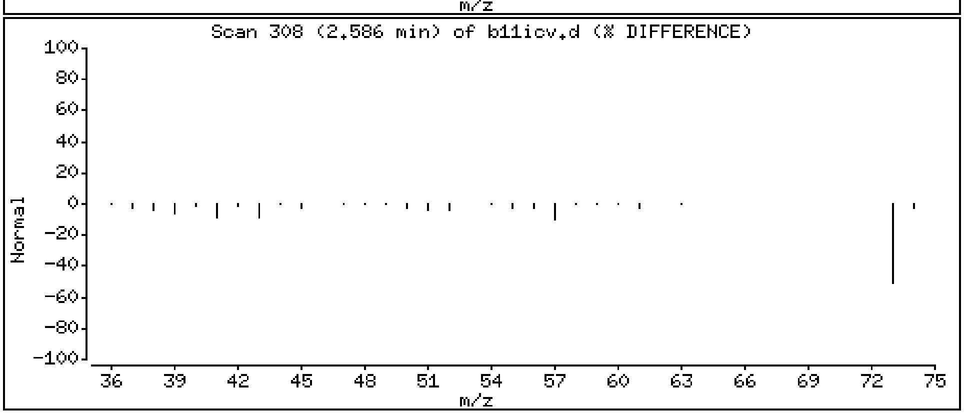
Concentration: 269 ppb

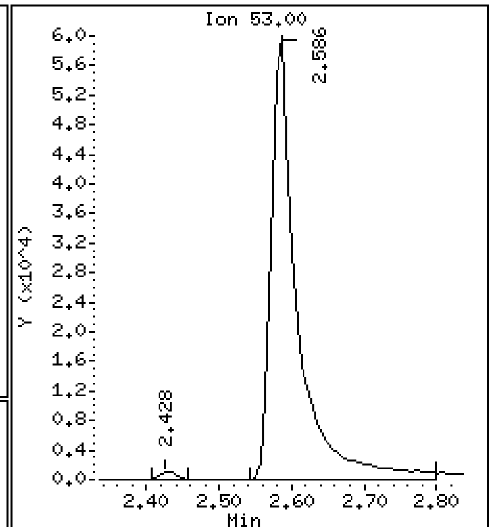
Review Code:

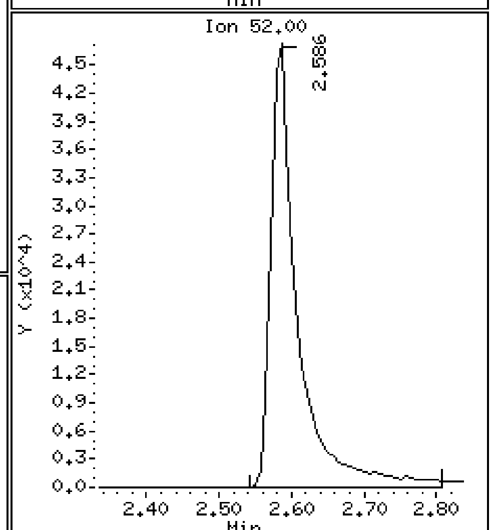












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

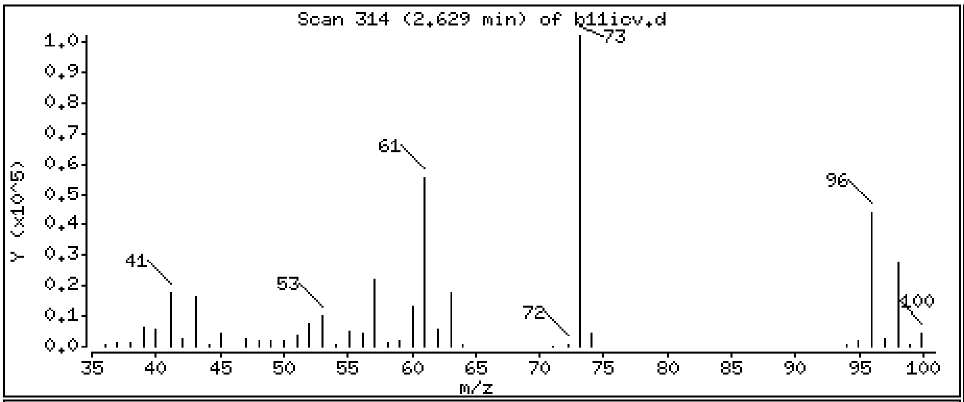
Column phase: DB-624

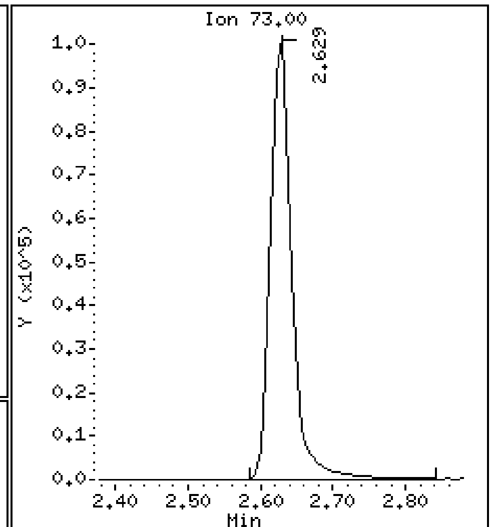
Column diameter: 0.18

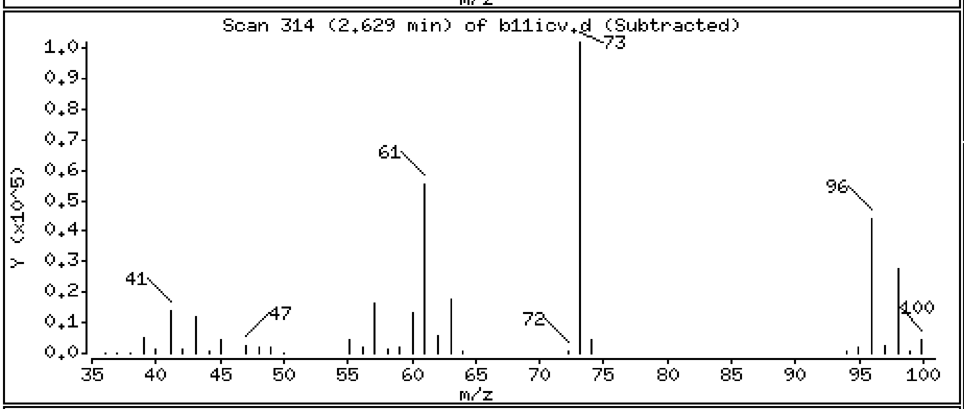
20 Methyl-tert-butyl ether

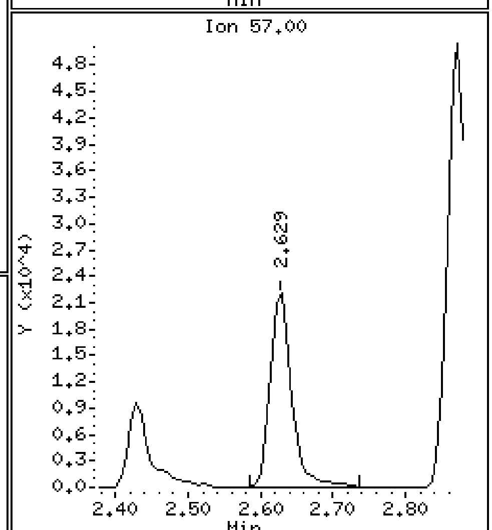
Concentration: 47.1 ppb

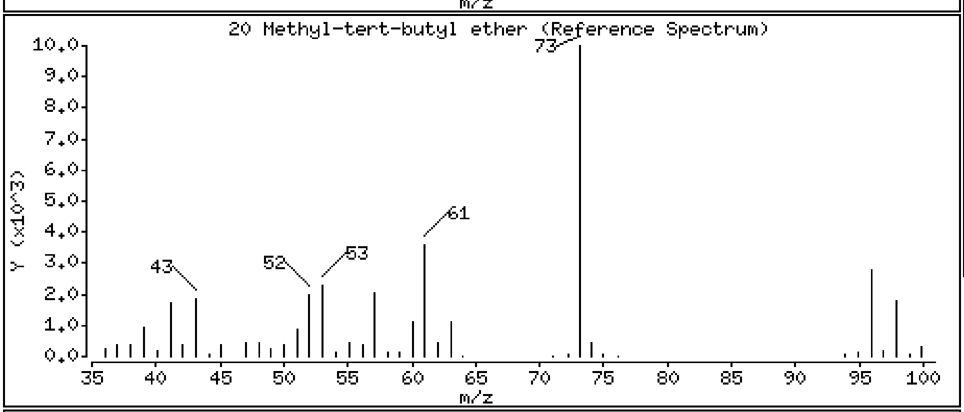
Review Code:

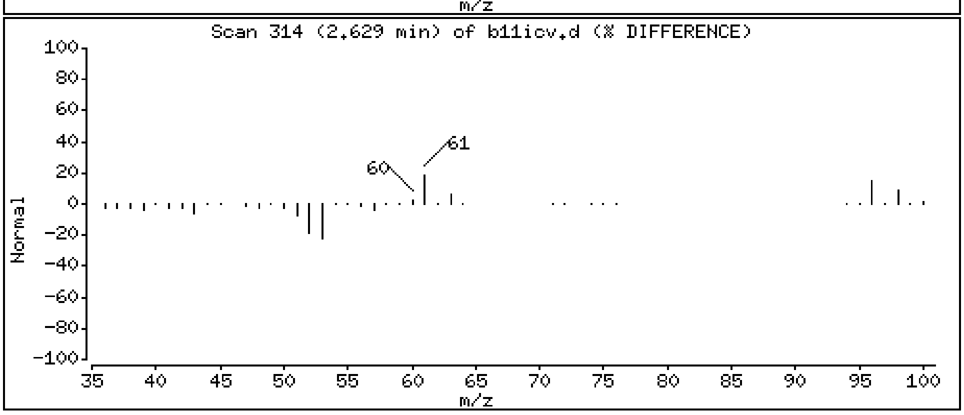












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

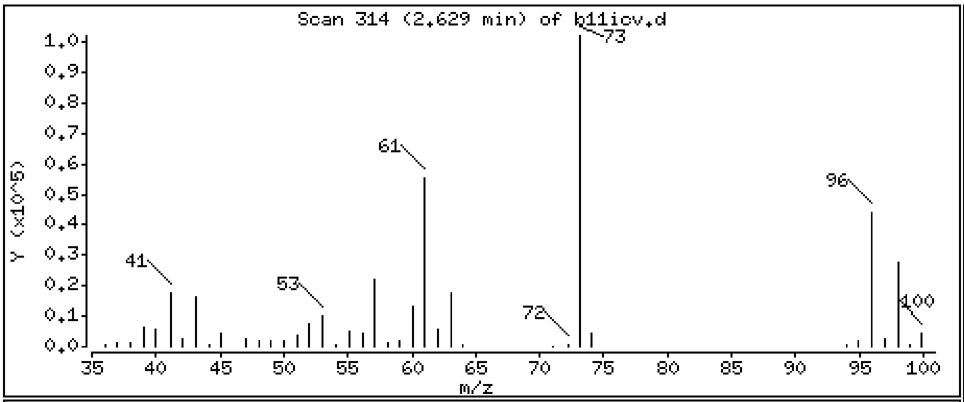
Client ID: 8260-ICV Instrument: 50mvcb.i

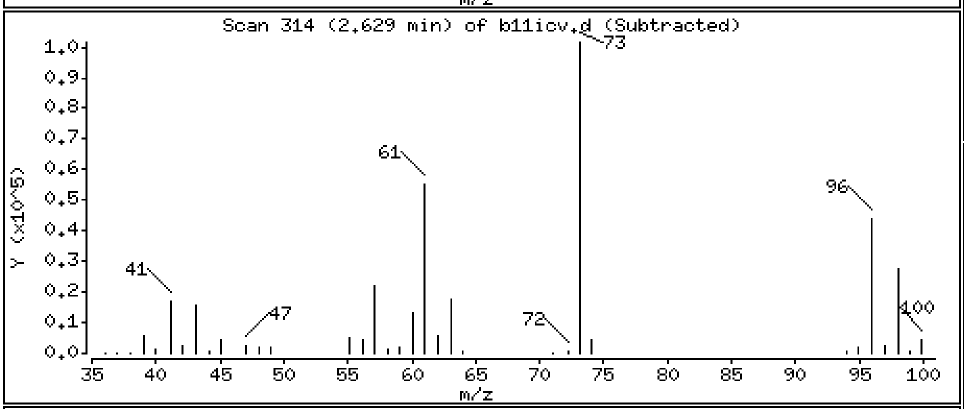
Sample Info: 8260-ICV,335770:0

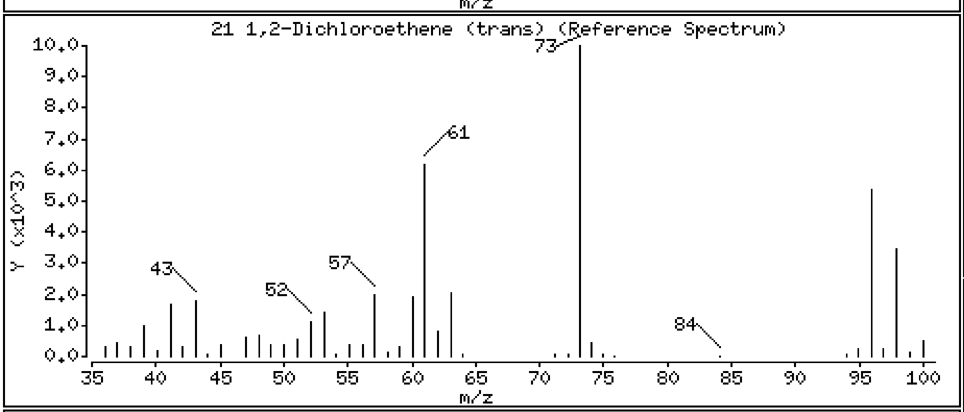
Purge Volume: 5.0 Operator: DAP

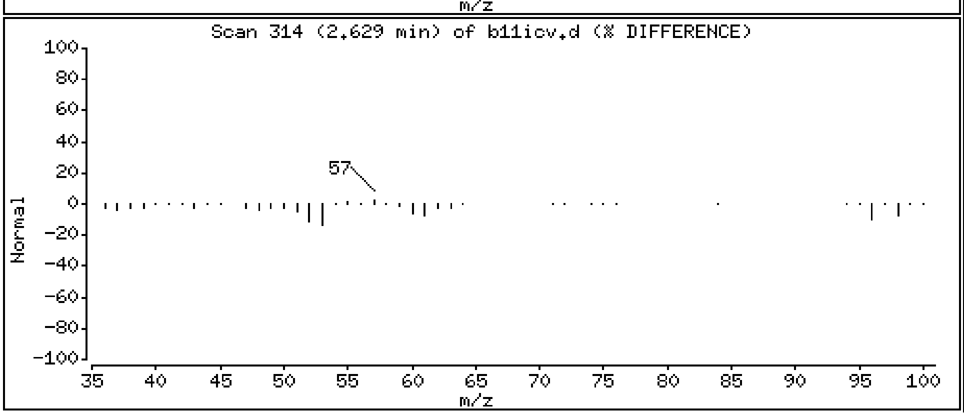
Column phase: DB-624 Column diameter: 0.18

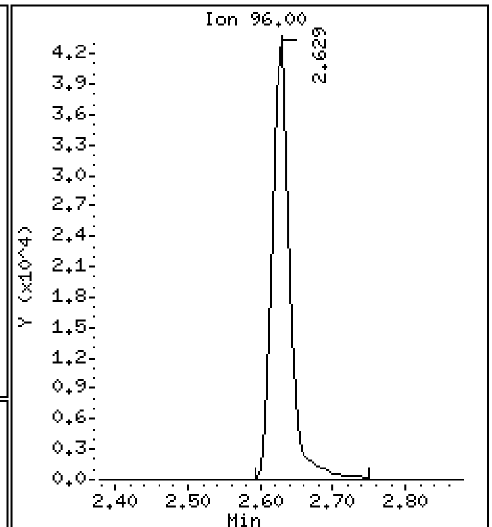
21 1,2-Dichloroethene (trans) Concentration: 46.6 ppb Review Code:

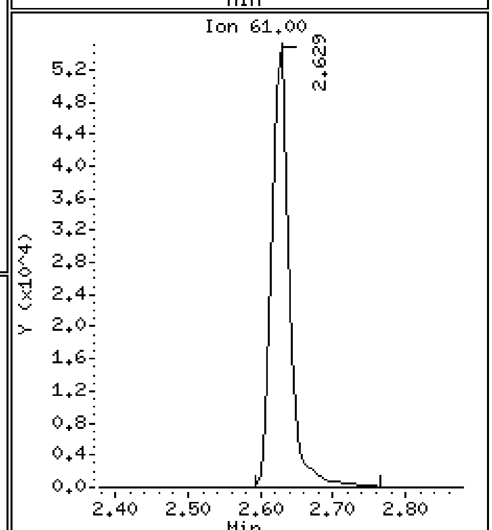


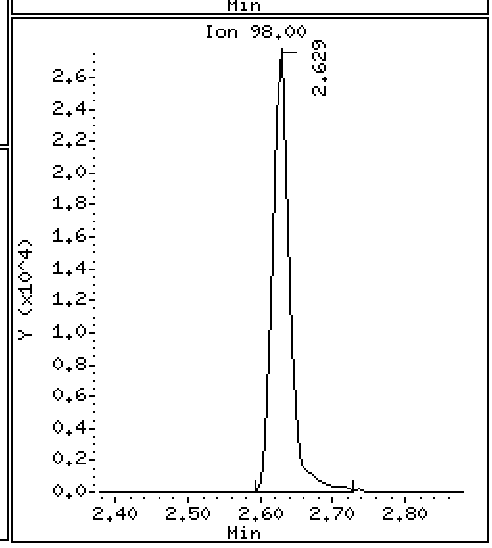












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

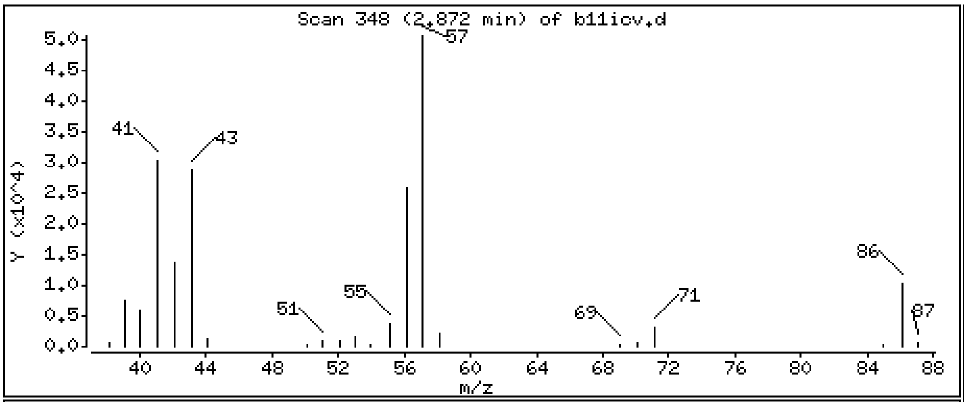
Column phase: DB-624

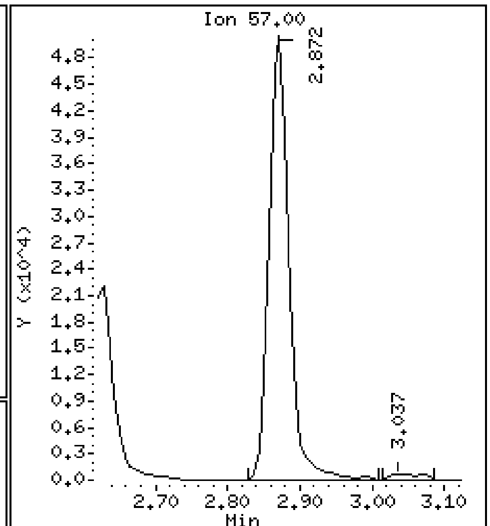
Column diameter: 0.18

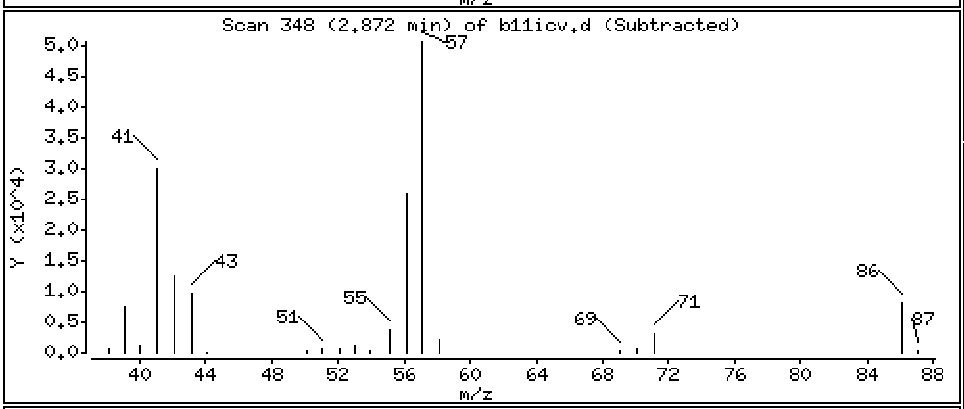
22 n-Hexane

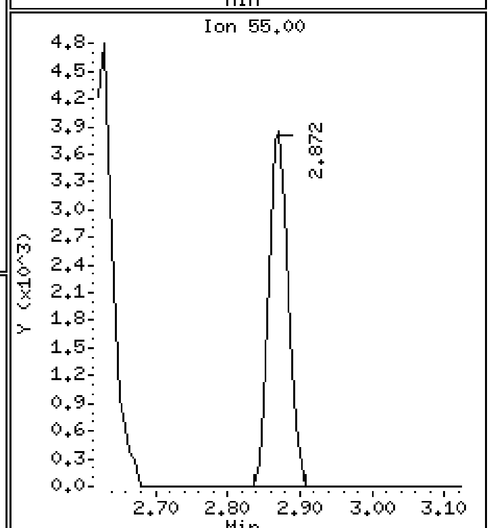
Concentration: 50.2 ppb

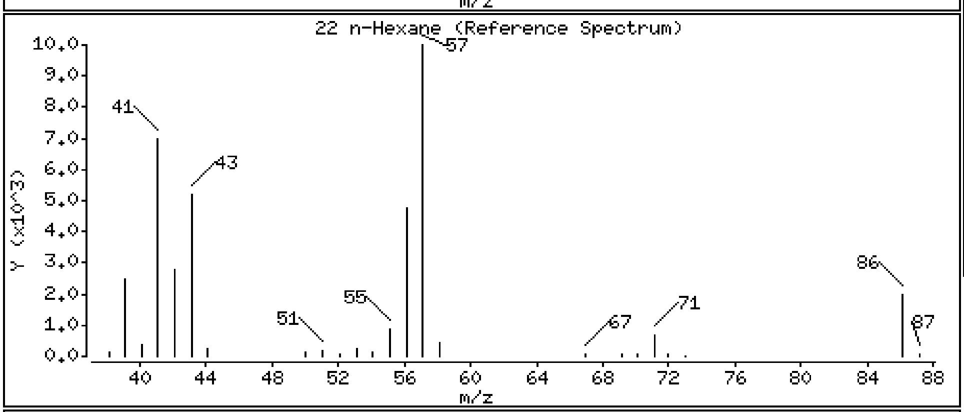
Review Code:

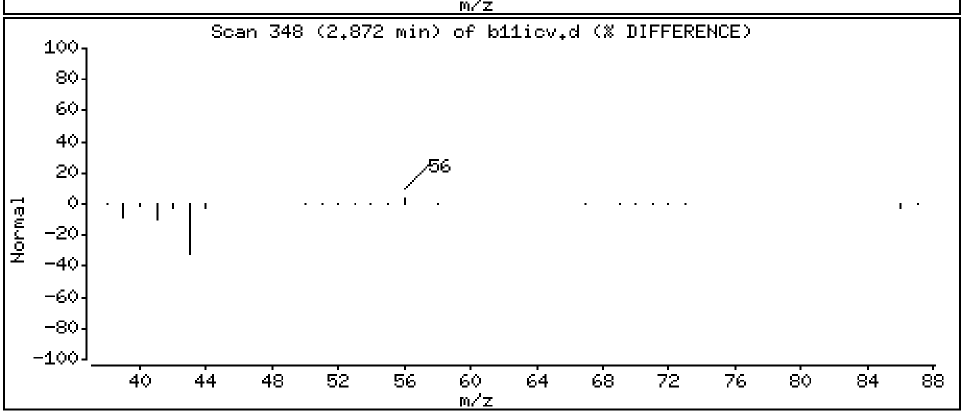












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

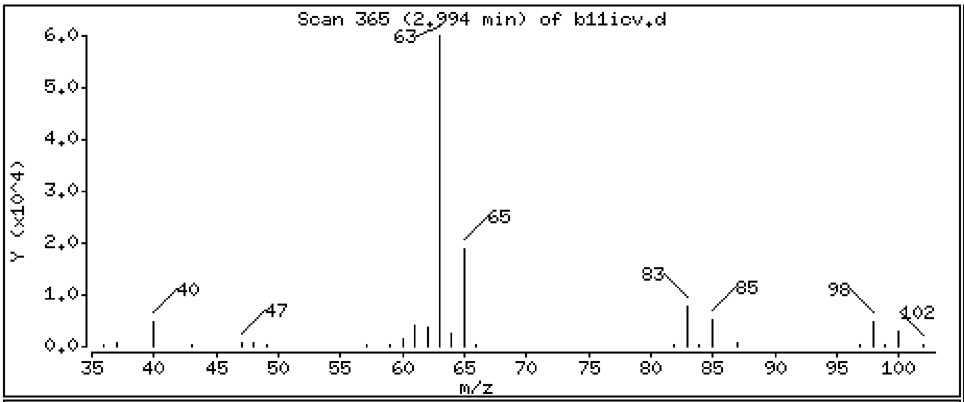
Column phase: DB-624

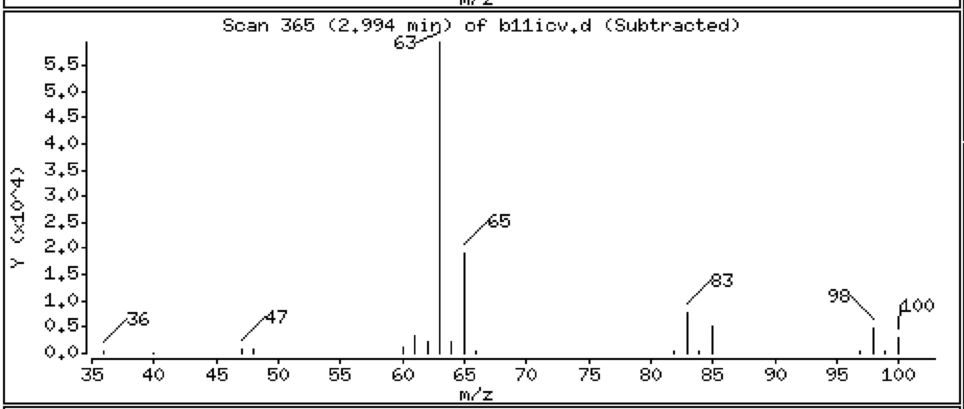
Column diameter: 0.18

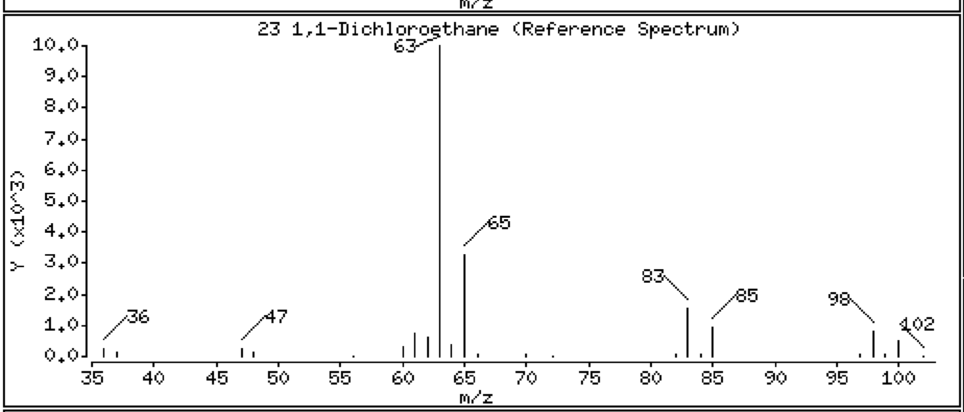
23 1,1-Dichloroethane

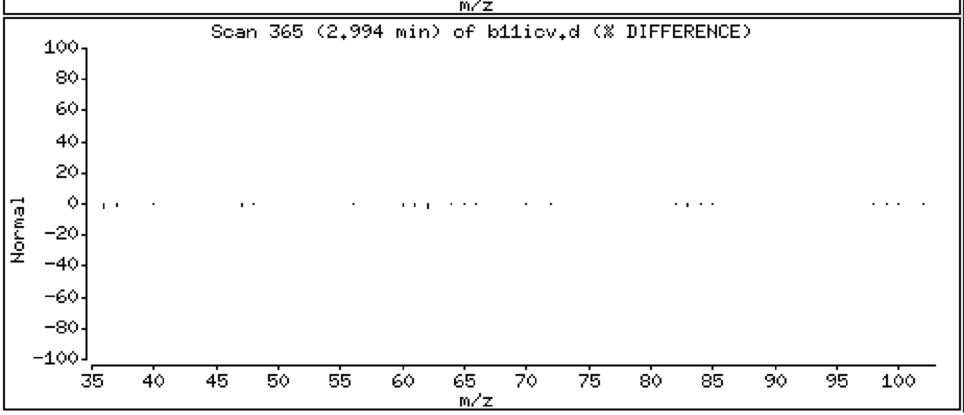
Concentration: 45.9 ppb

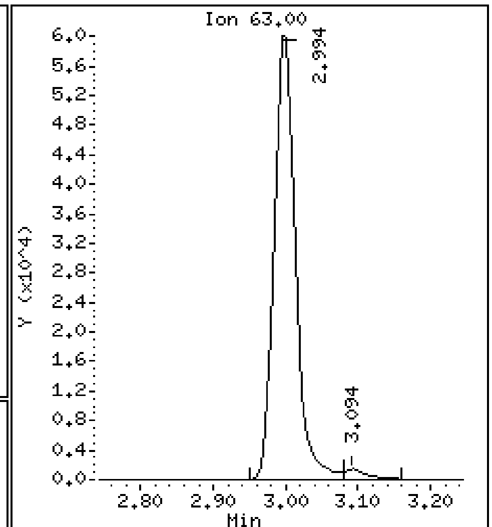
Review Code:

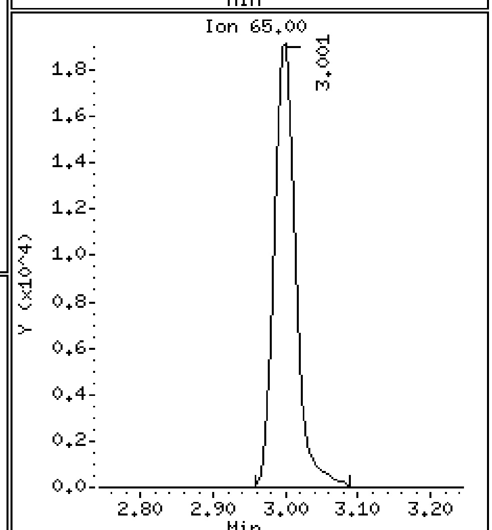


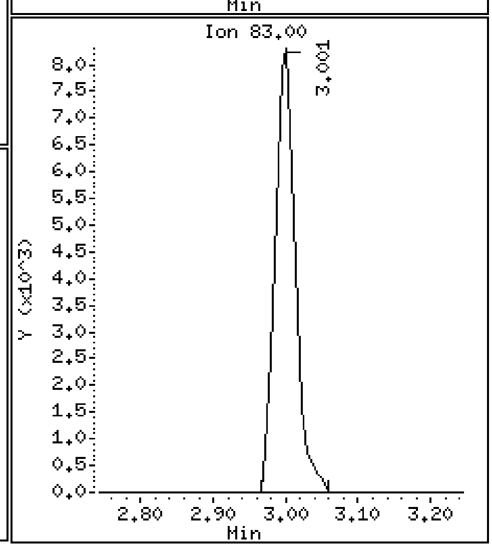












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

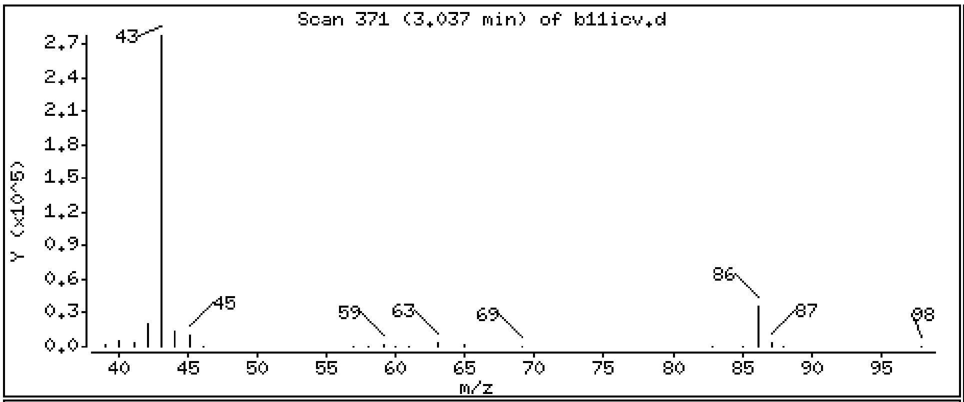
Client ID: 8260-ICV Instrument: 50mvcb.i

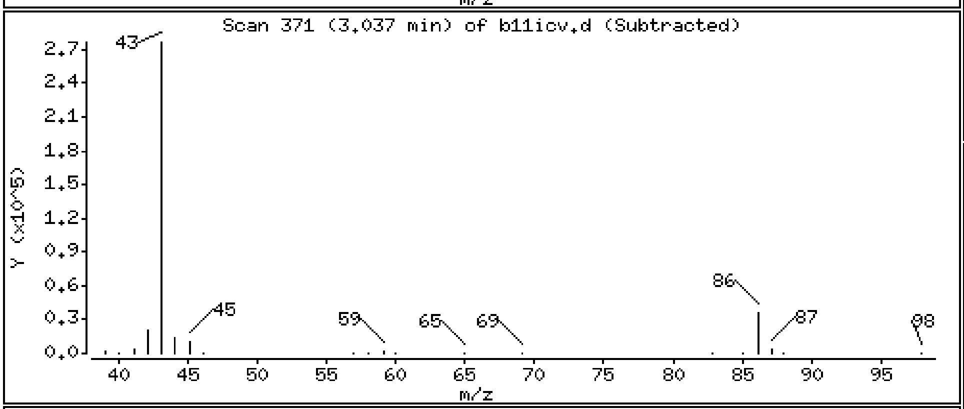
Sample Info: 8260-ICV,335770:0

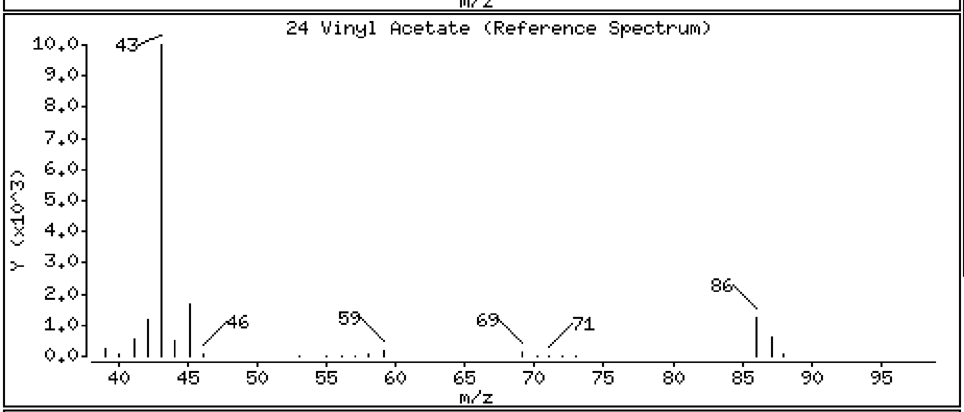
Purge Volume: 5.0 Operator: DAP

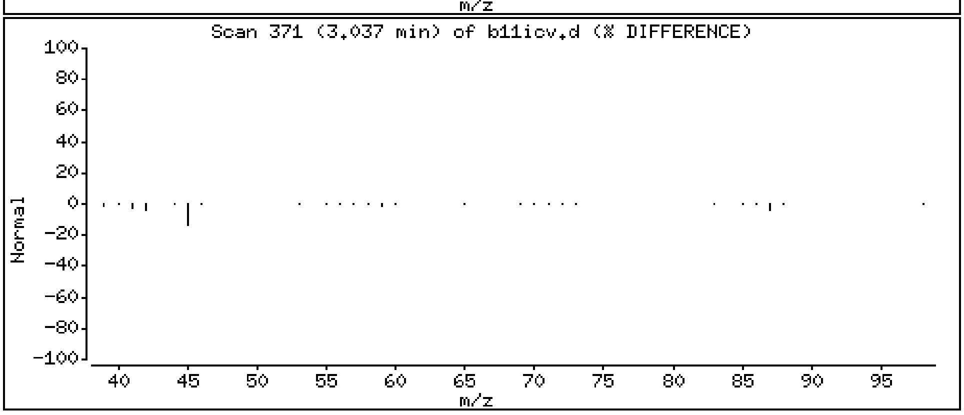
Column phase: DB-624 Column diameter: 0.18

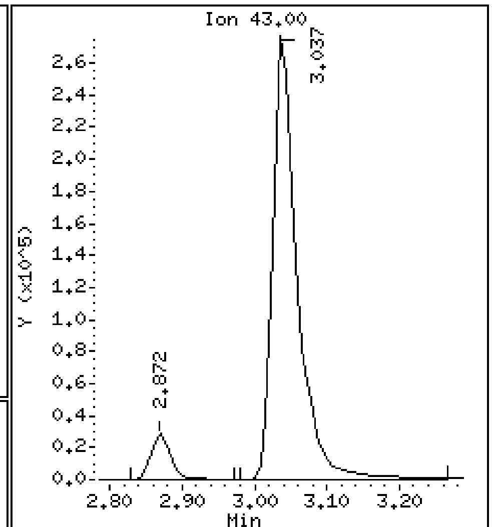
24 Vinyl Acetate Concentration: 223 ppb Review Code:

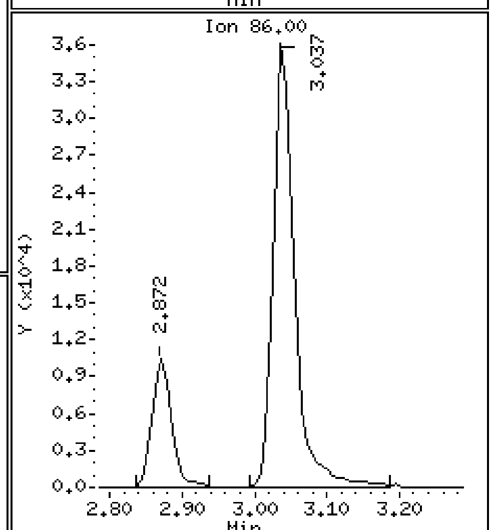












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

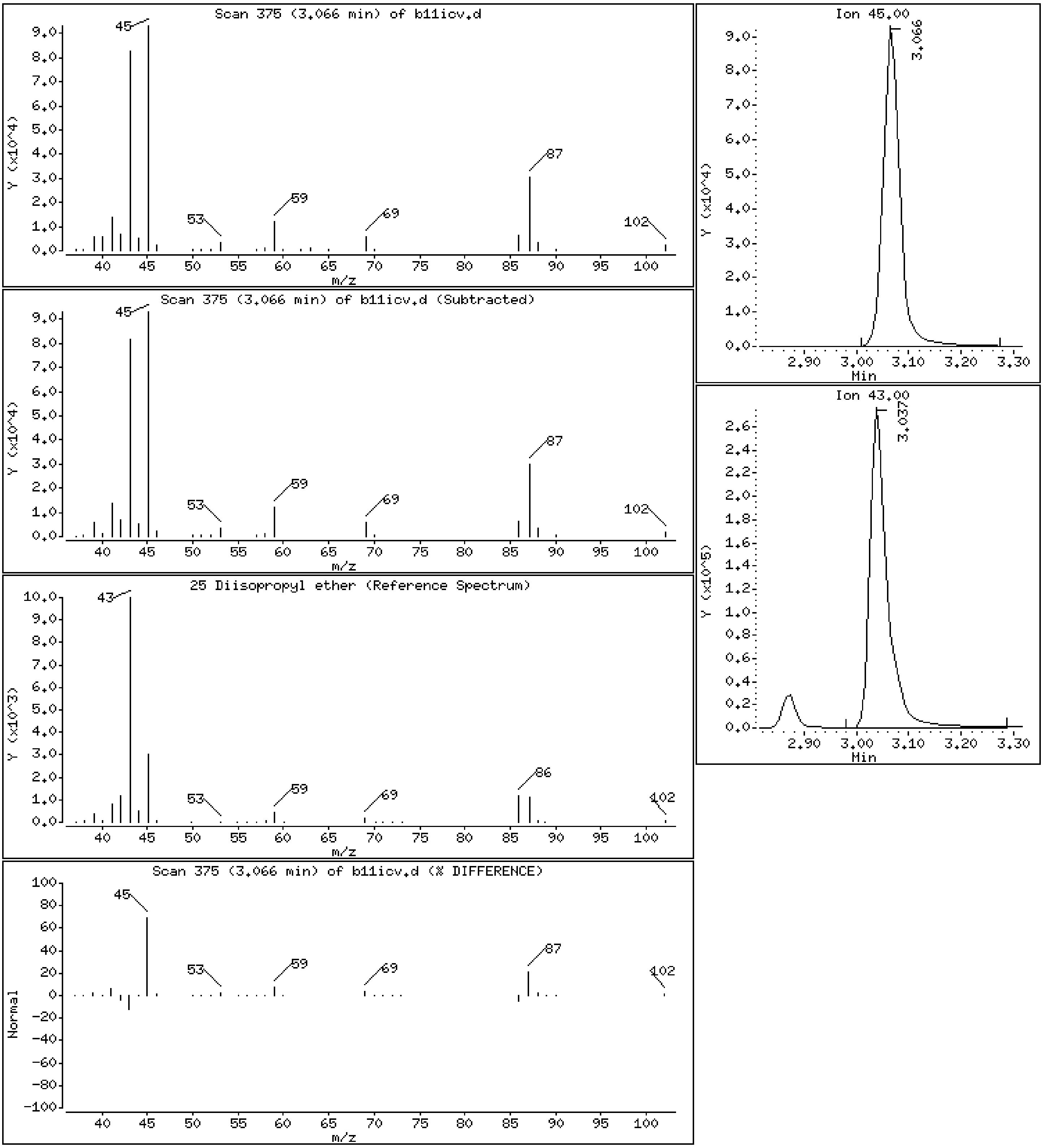
Column phase: DB-624

Column diameter: 0.18

25 Diisopropyl ether

Concentration: 46.6 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

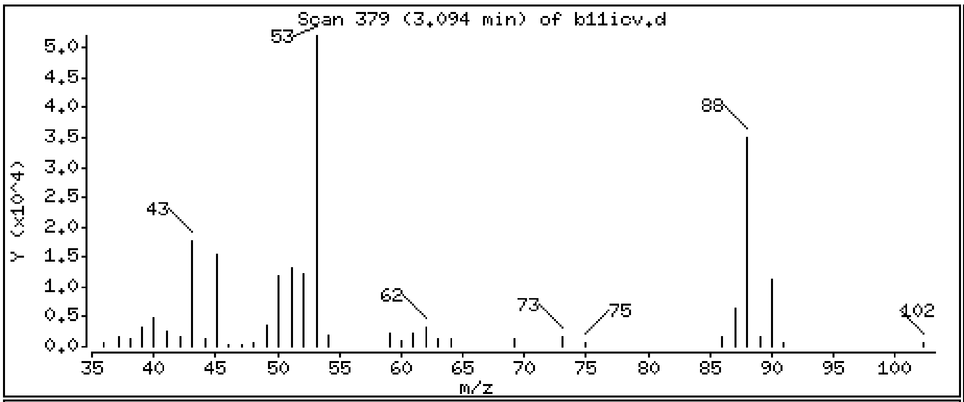
Column phase: DB-624

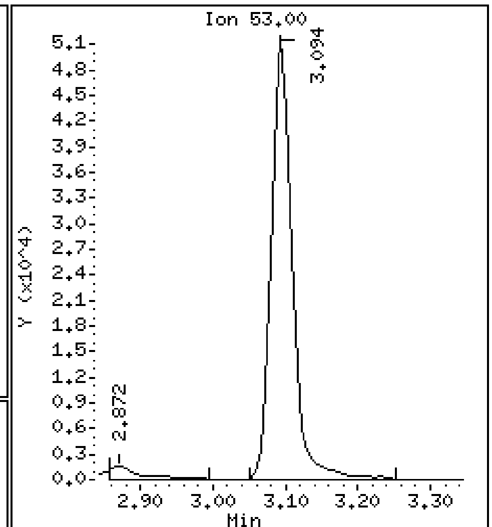
Column diameter: 0.18

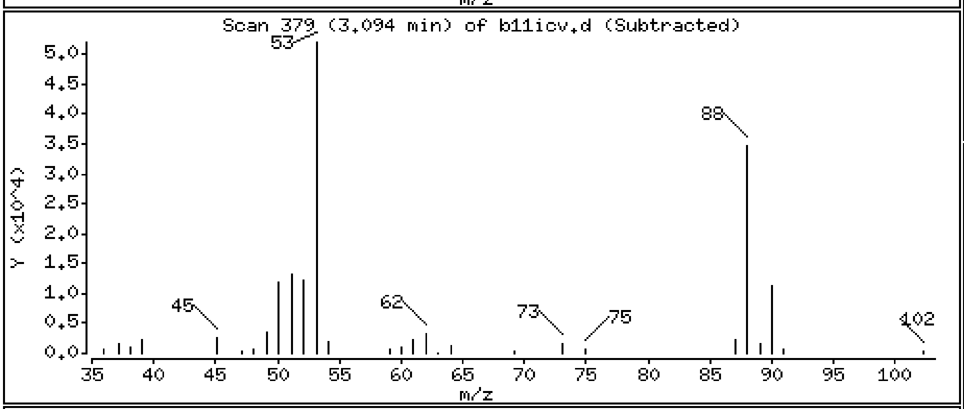
26 chloroprene

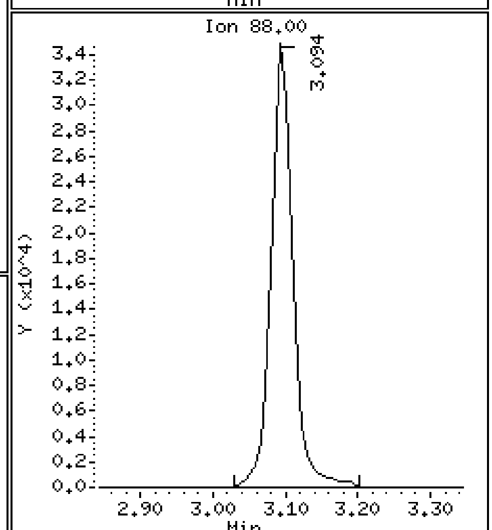
Concentration: 48.6 ppb

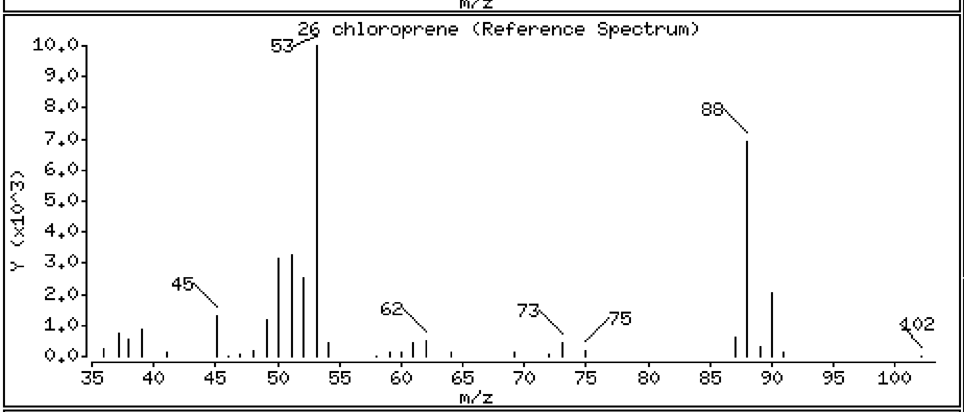
Review Code:

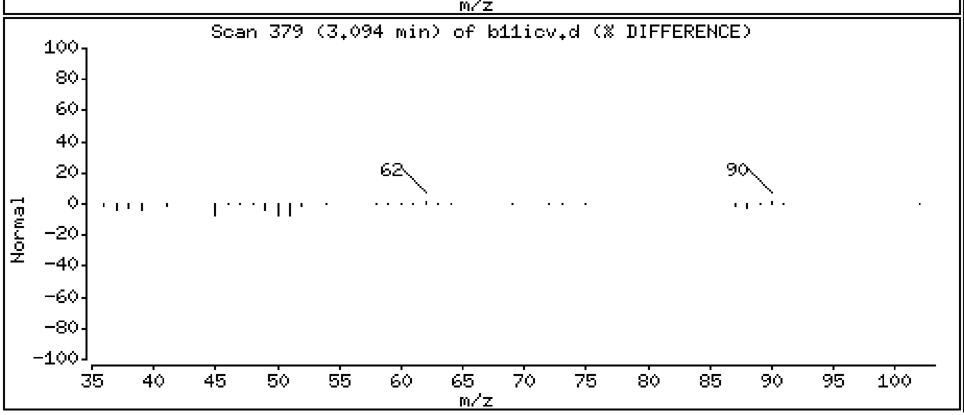


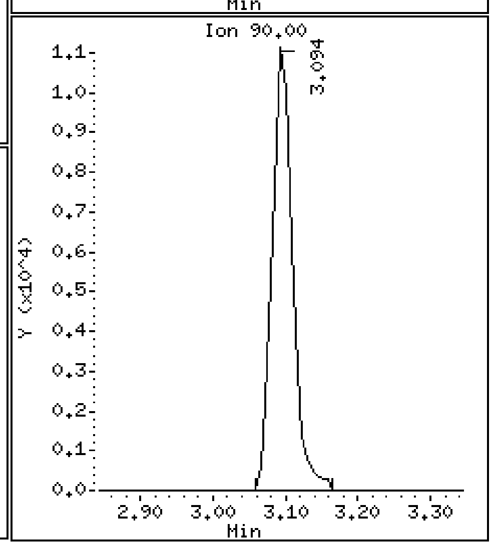












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

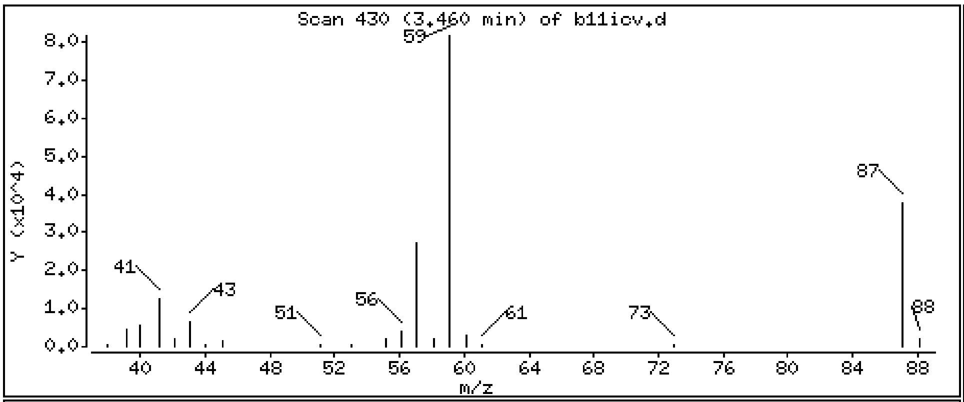
Client ID: 8260-ICV Instrument: 50mvcb.i

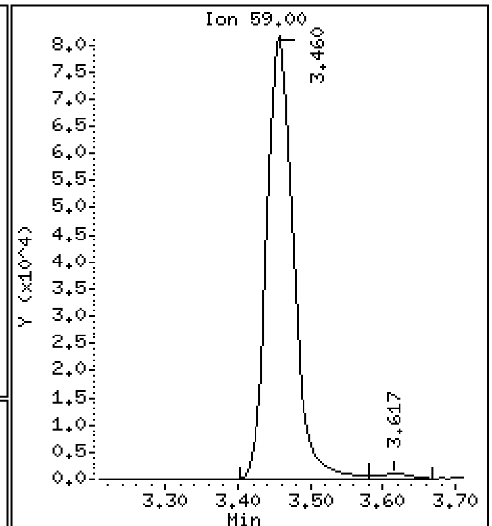
Sample Info: 8260-ICV,335770:0

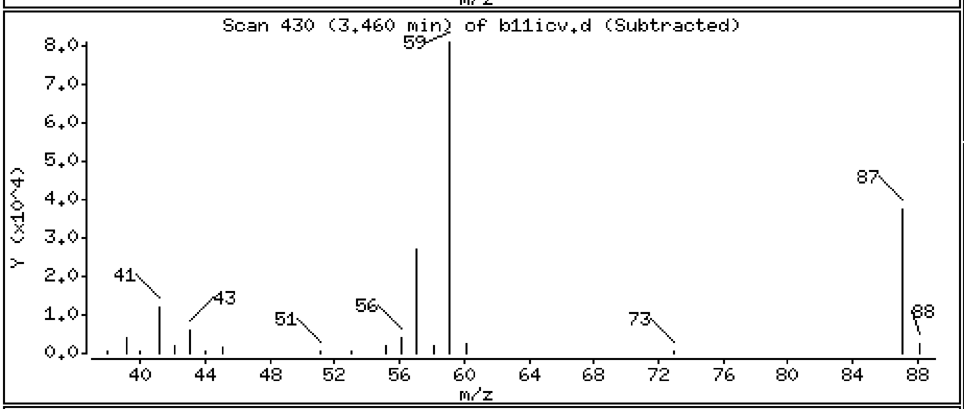
Purge Volume: 5.0 Operator: DAP

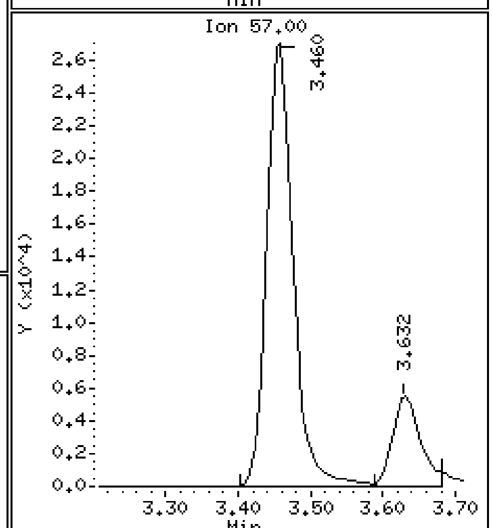
Column phase: DB-624 Column diameter: 0.18

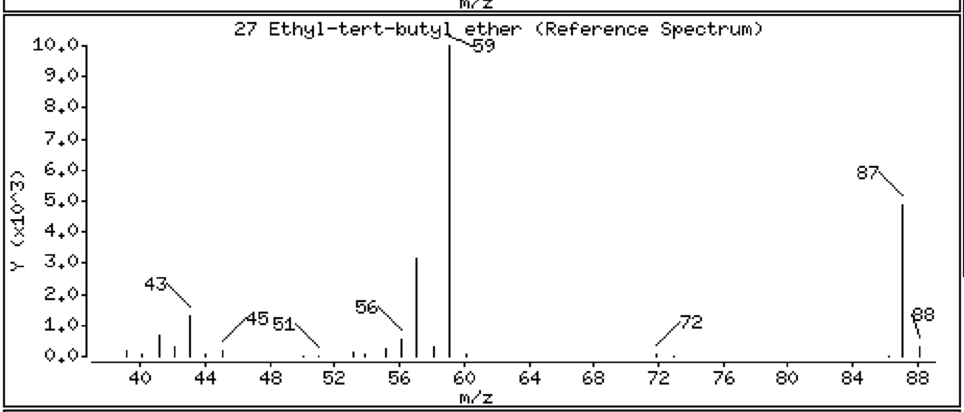
27 Ethyl-tert-butyl ether Concentration: 47.0 ppb Review Code:

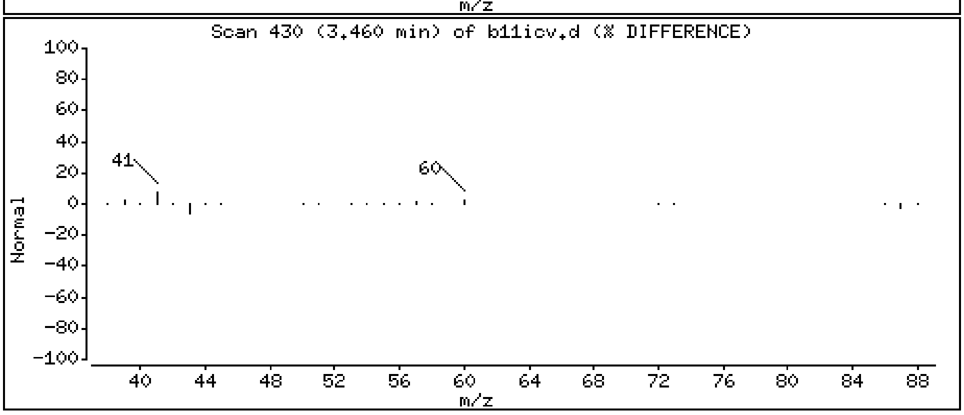












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

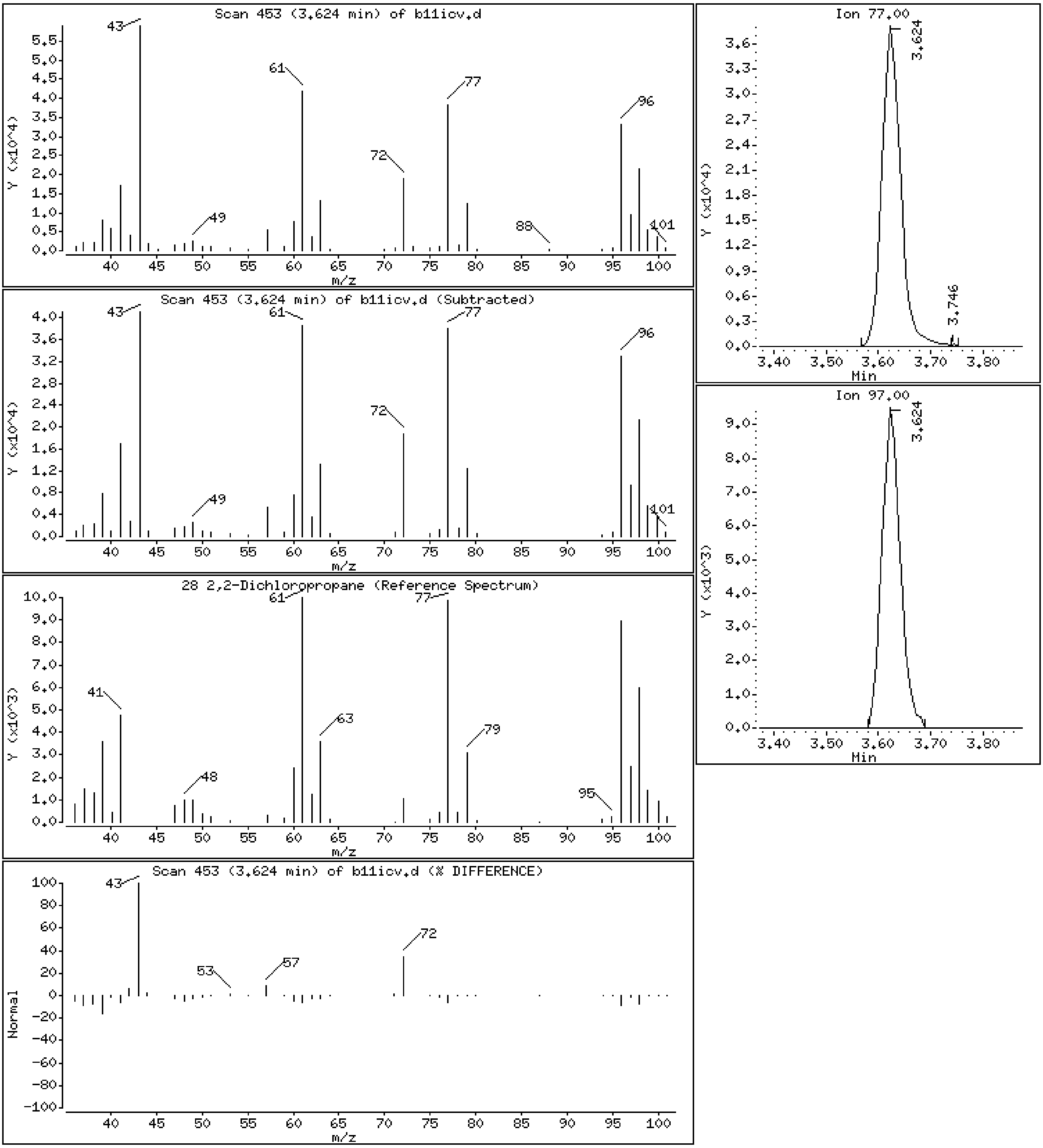
Column phase: DB-624

Column diameter: 0.18

28 2,2-Dichloropropane

Concentration: 44.9 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d Page 33

Date : 16-JAN-2023 19:47

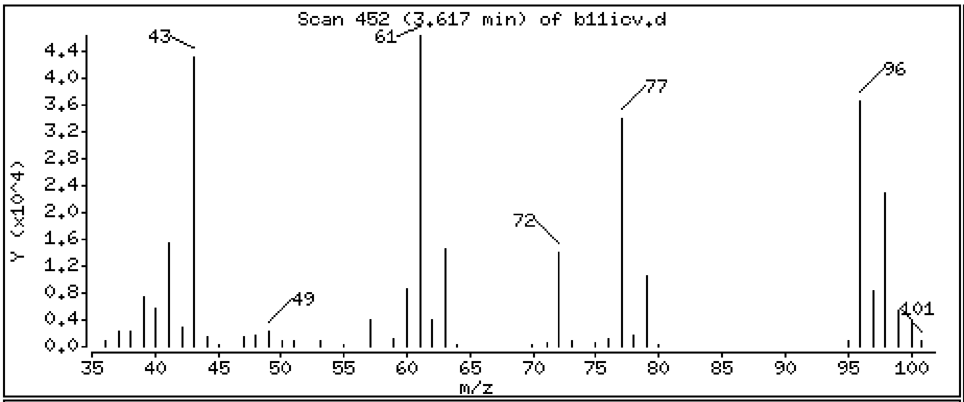
Client ID: 8260-ICV Instrument: 50mvcb.i

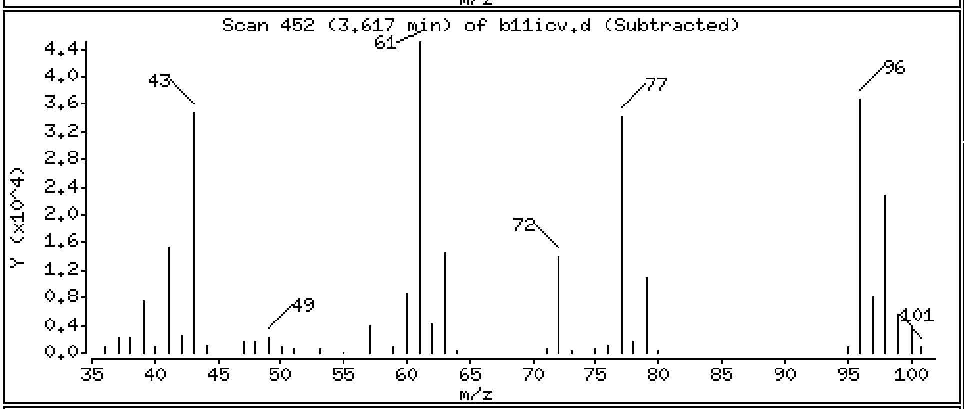
Sample Info: 8260-ICV,335770:0

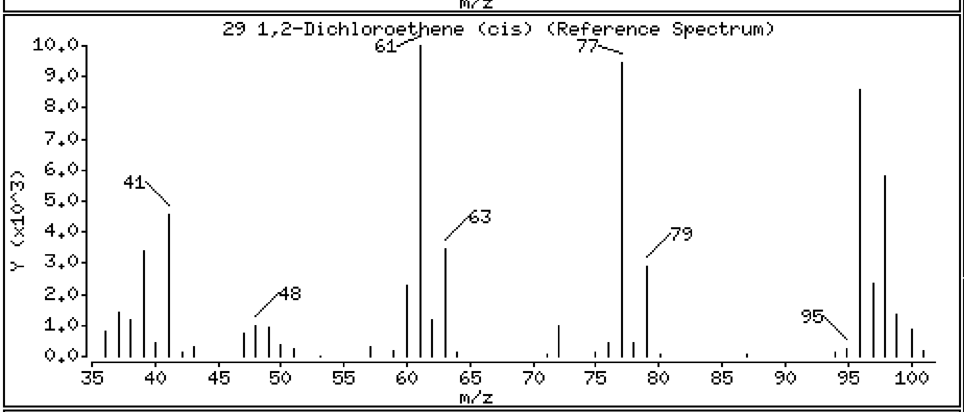
Purge Volume: 5.0 Operator: DAP

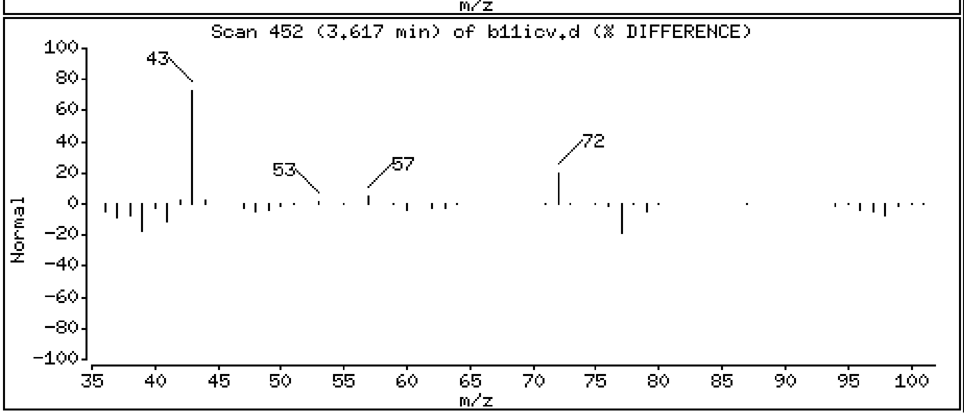
Column phase: DB-624 Column diameter: 0.18

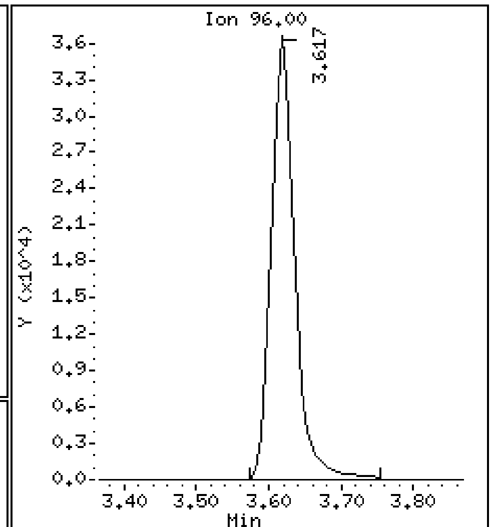
29 1,2-Dichloroethene (cis) Concentration: 47.0 ppb Review Code:

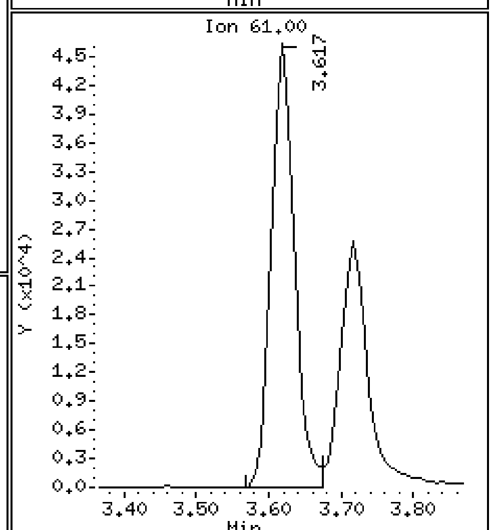


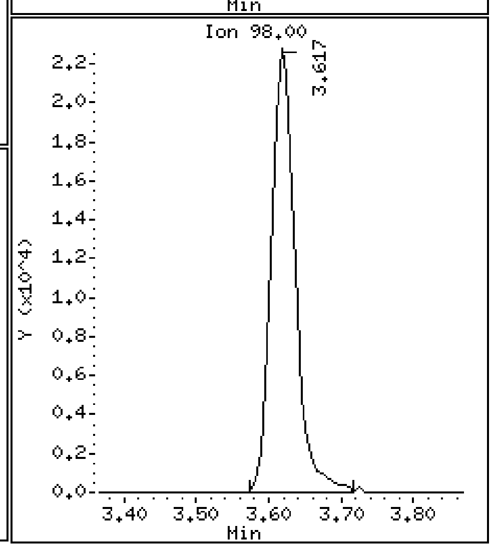












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

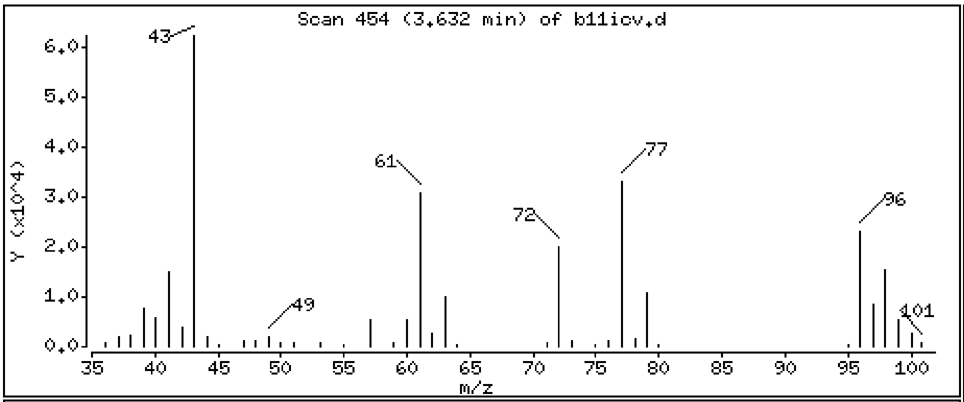
Column phase: DB-624

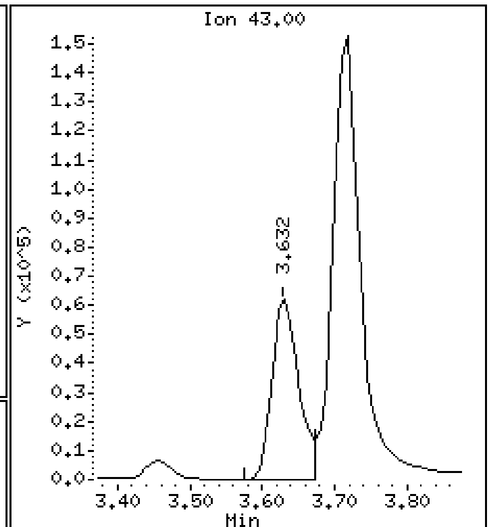
Column diameter: 0.18

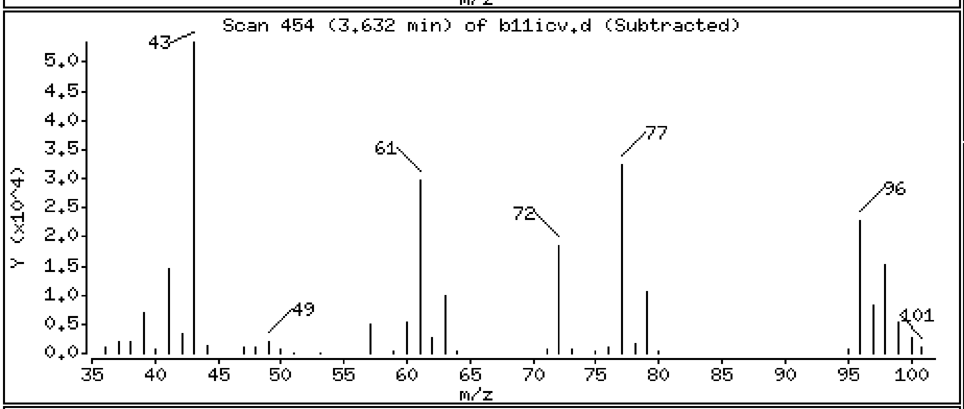
30 2-Butanone

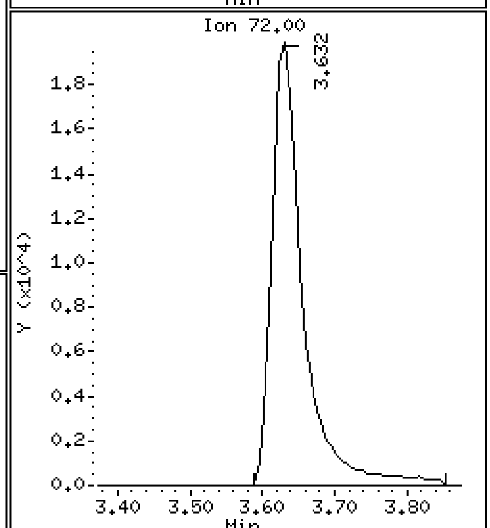
Concentration: 237 ppb

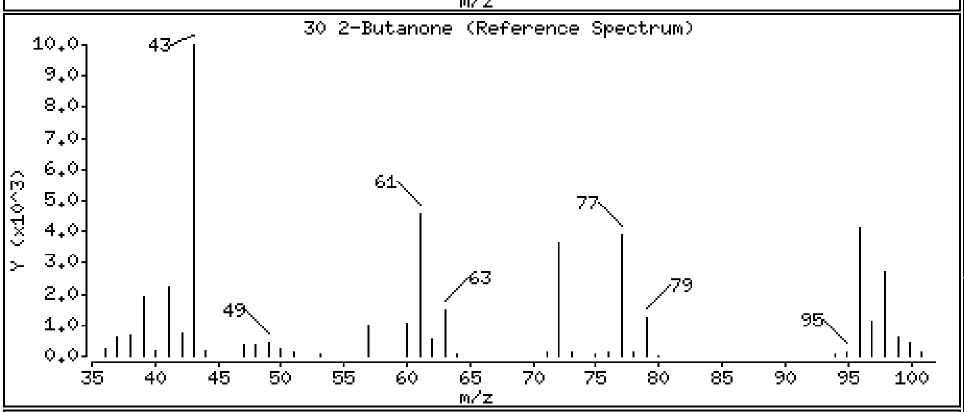
Review Code: NI

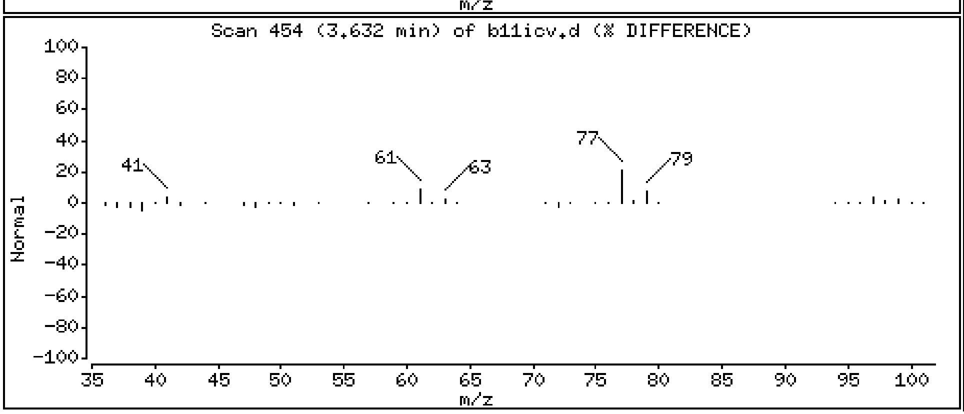


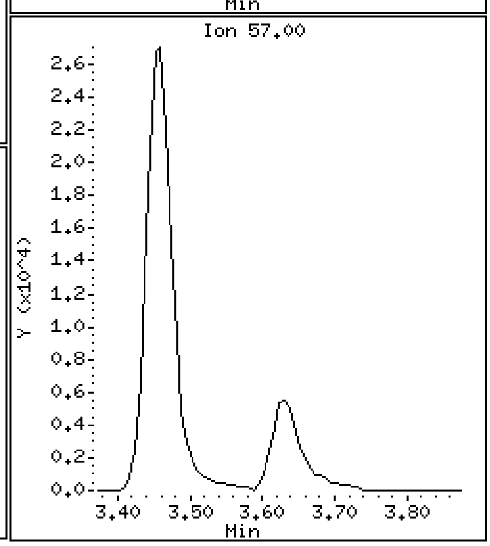












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

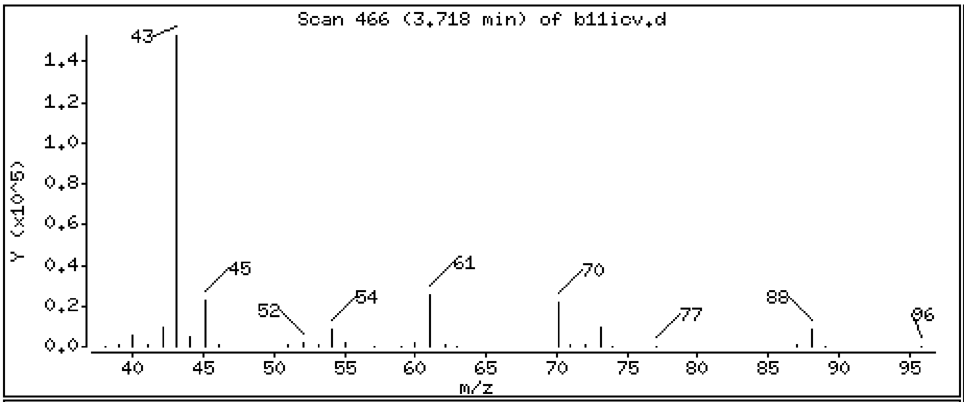
Column phase: DB-624

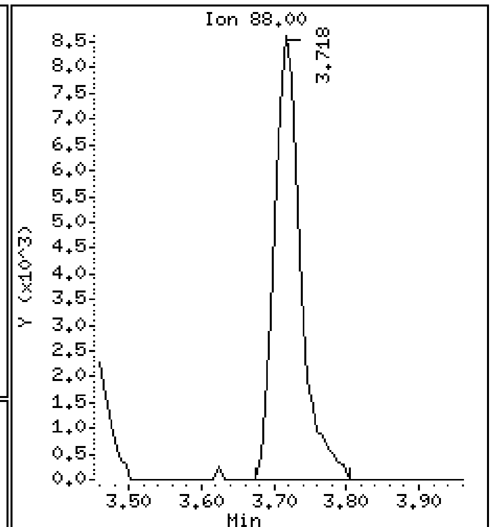
Column diameter: 0.18

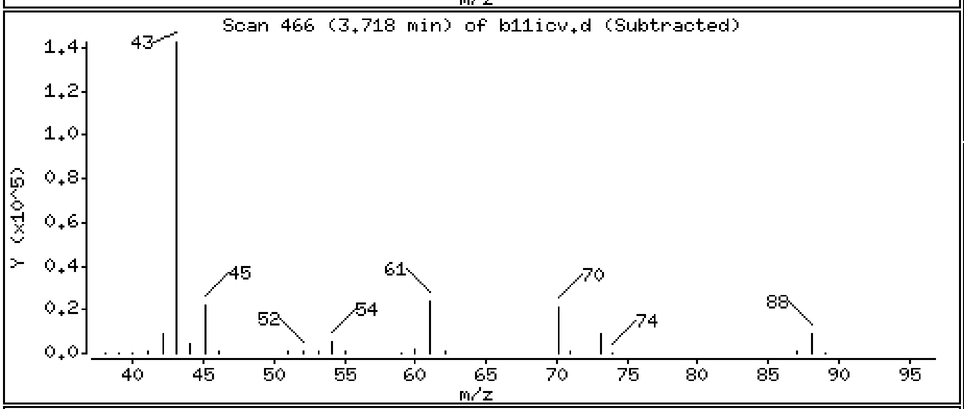
31 Ethyl Acetate

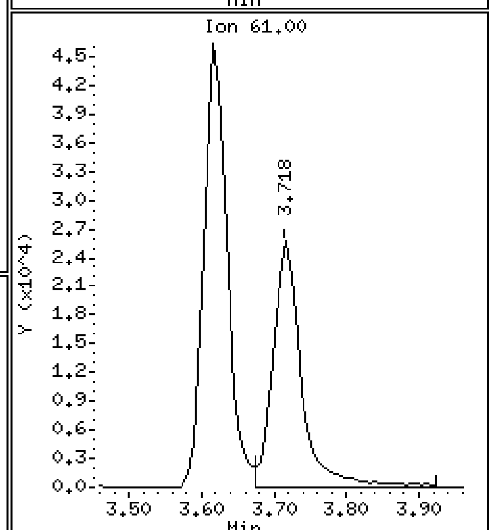
Concentration: 258 ppb

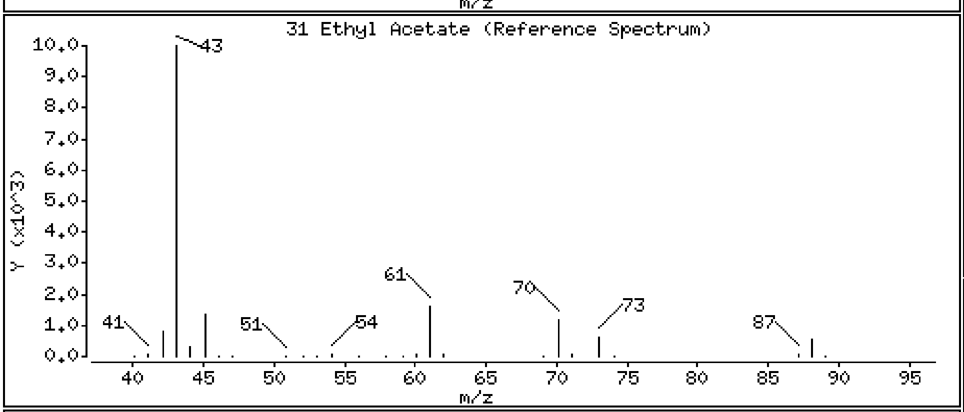
Review Code:

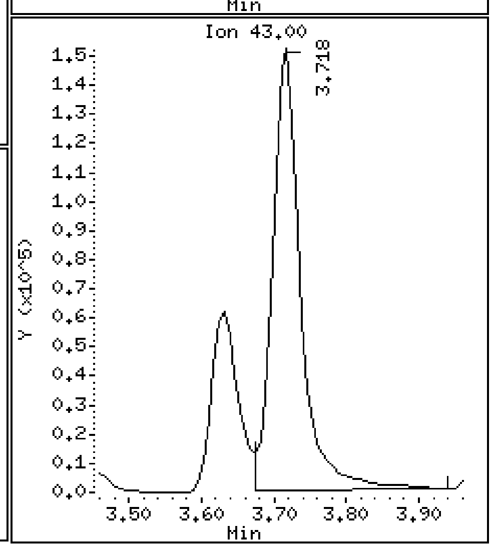


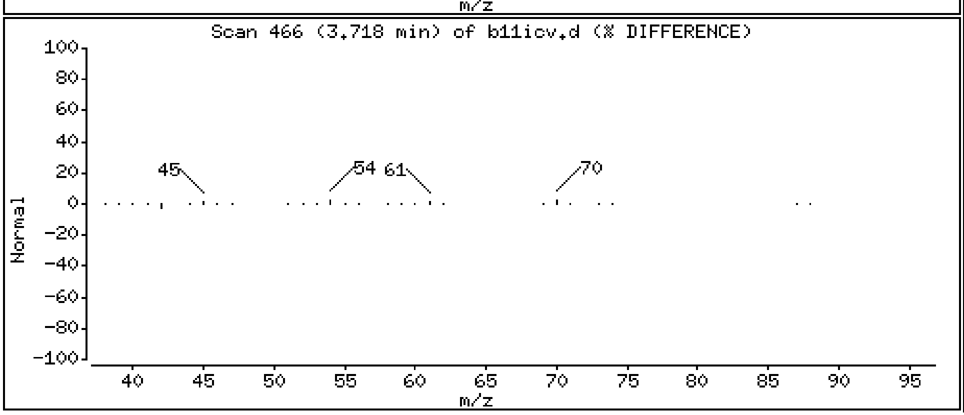












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

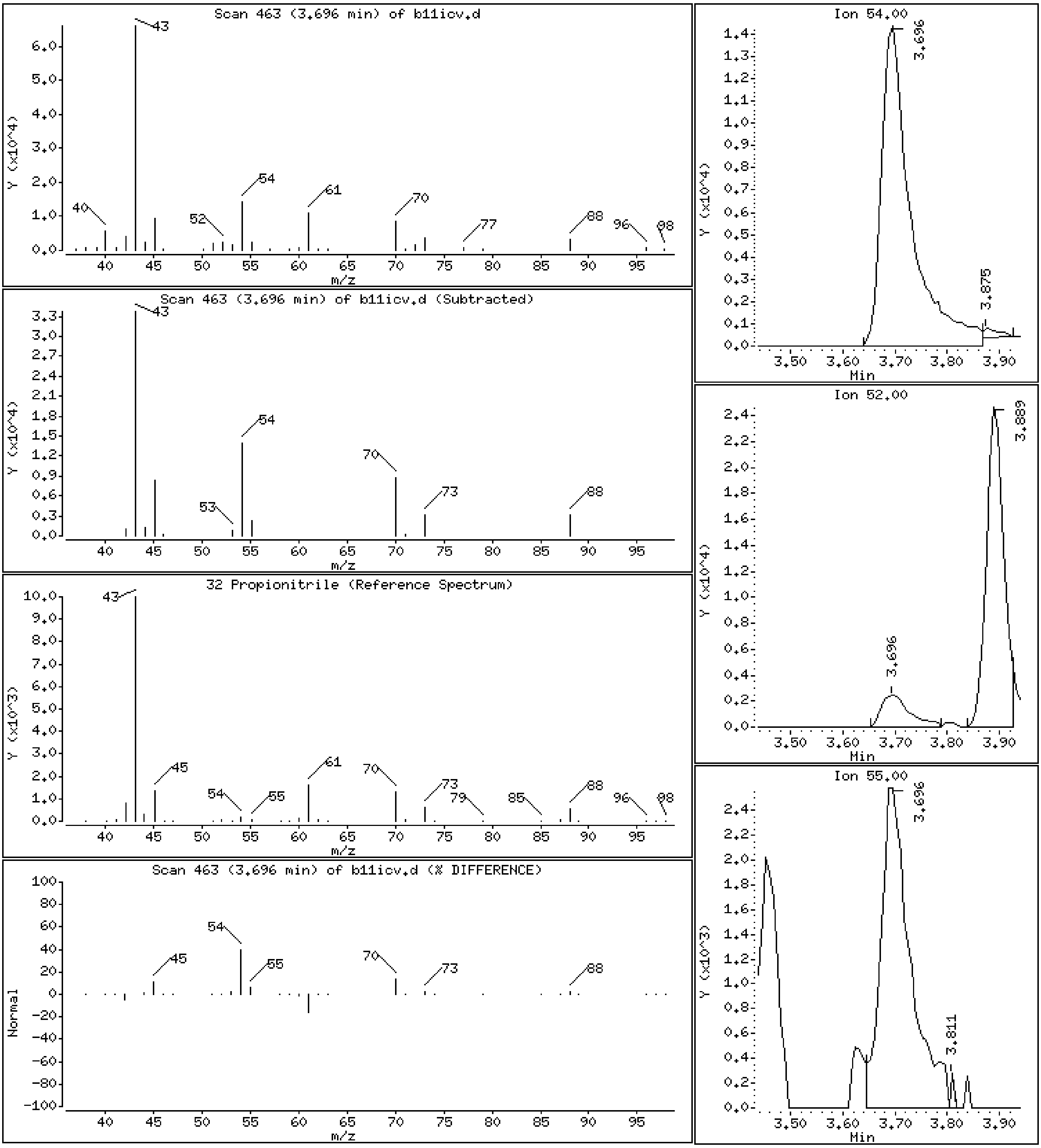
Column phase: DB-624

Column diameter: 0.18

32 Propionitrile

Concentration: 294 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

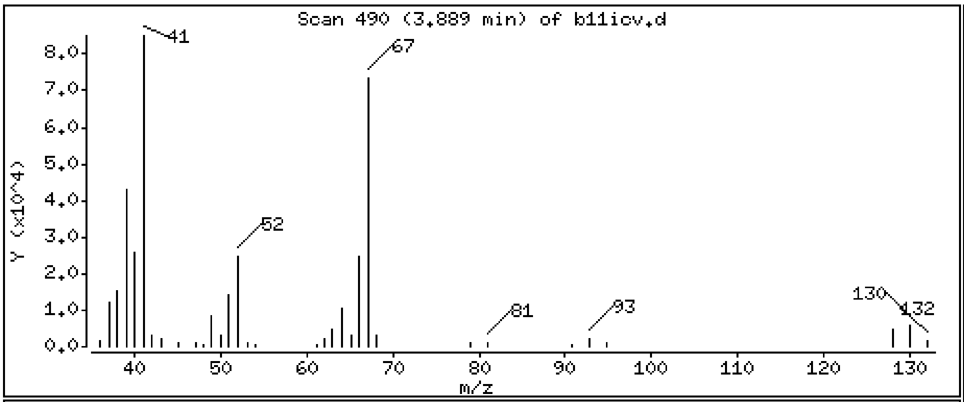
Column phase: DB-624

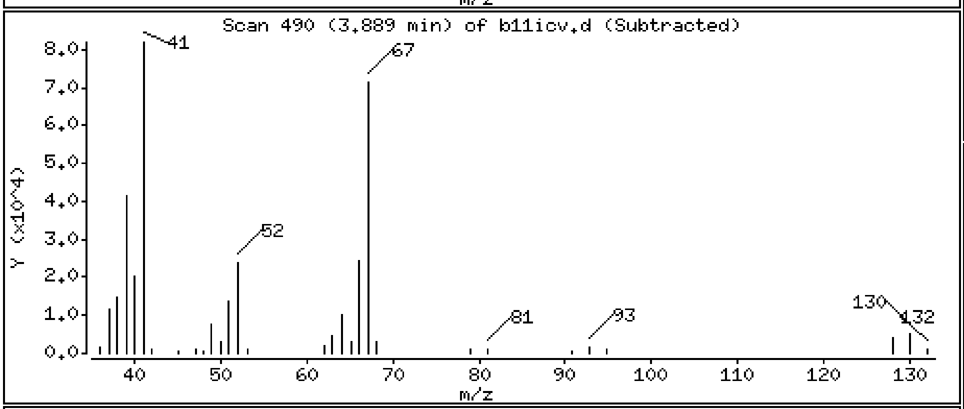
Column diameter: 0.18

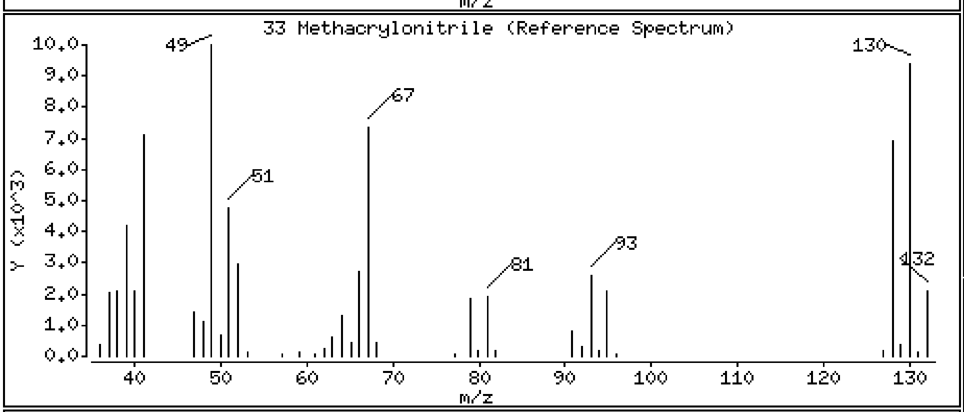
33 Methacrylonitrile

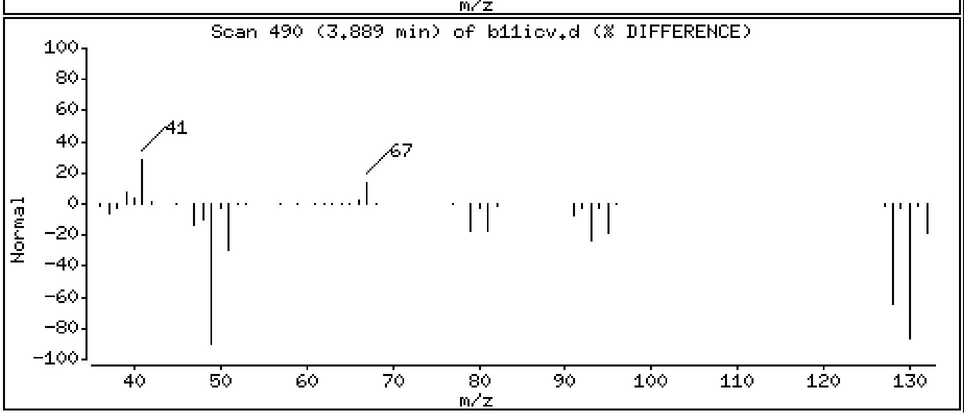
Concentration: 242 ppb

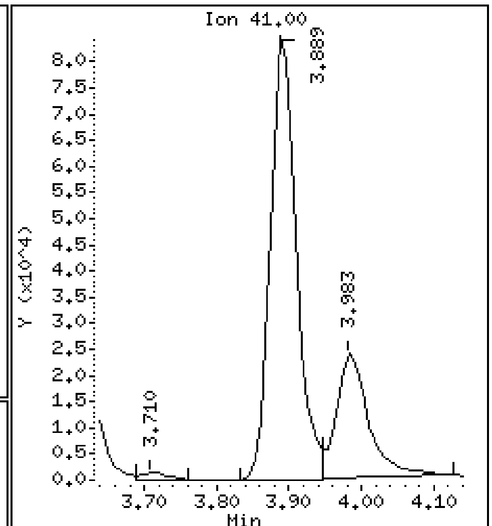
Review Code:

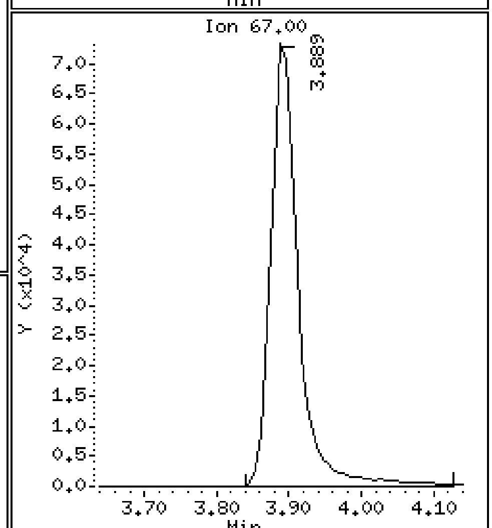


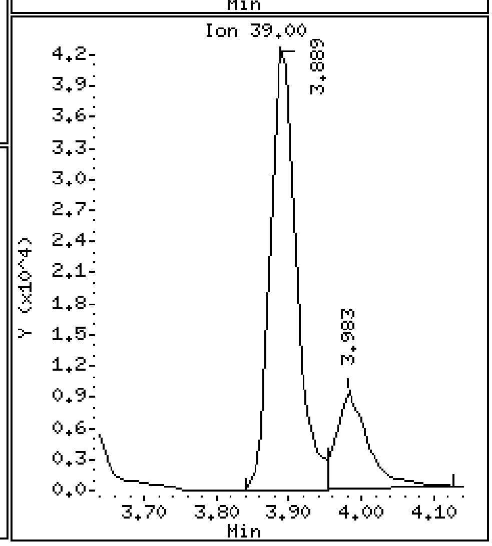












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

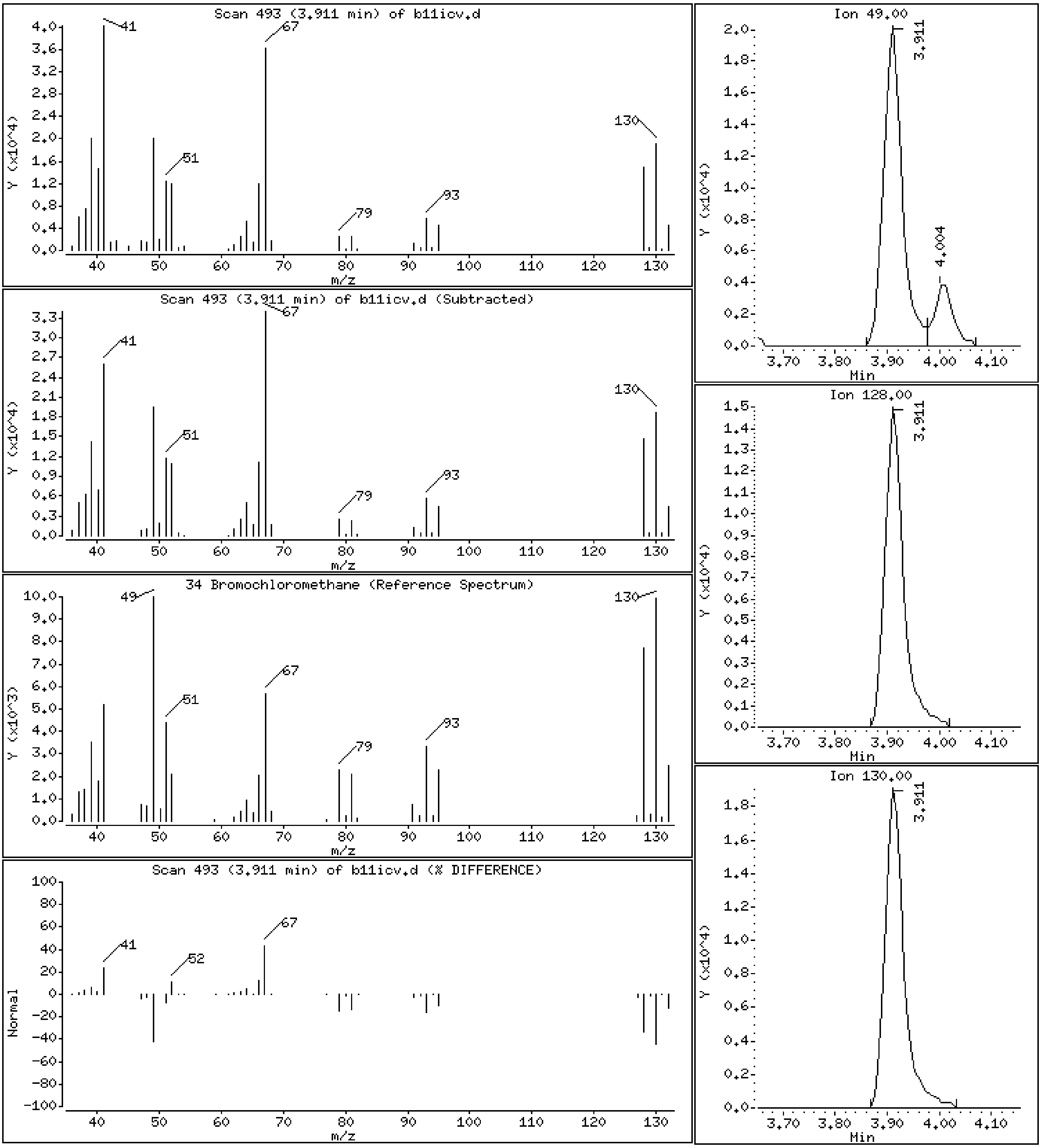
Column phase: DB-624

Column diameter: 0.18

34 Bromochloromethane

Concentration: 42.6 ppb

Review Code:



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Date : 16-JAN-2023 19:47

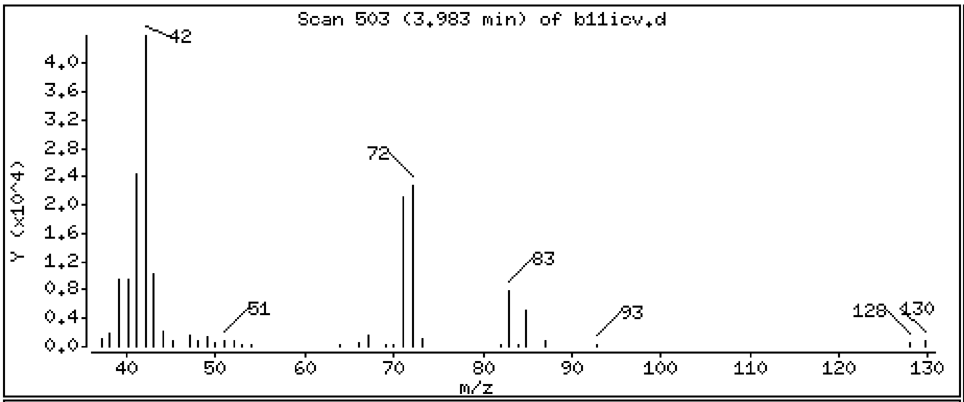
Client ID: 8260-ICV   Instrument: 50mvcb.i

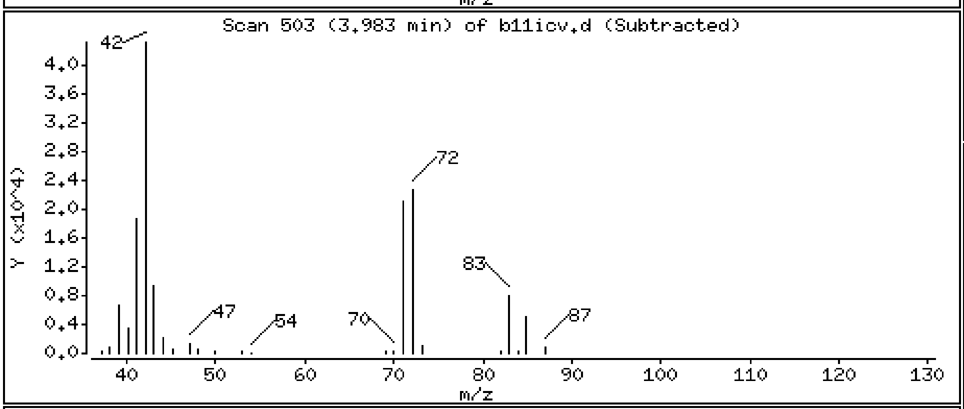
Sample Info: 8260-ICV,335770:0

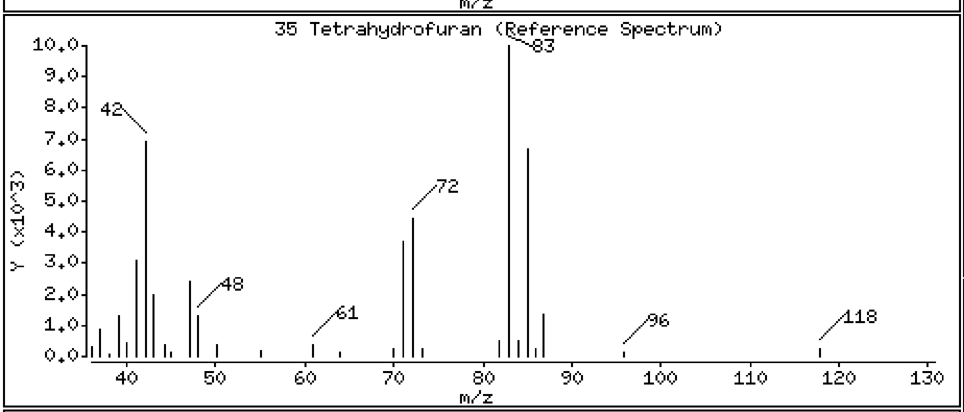
Purge Volume: 5.0   Operator: DAP

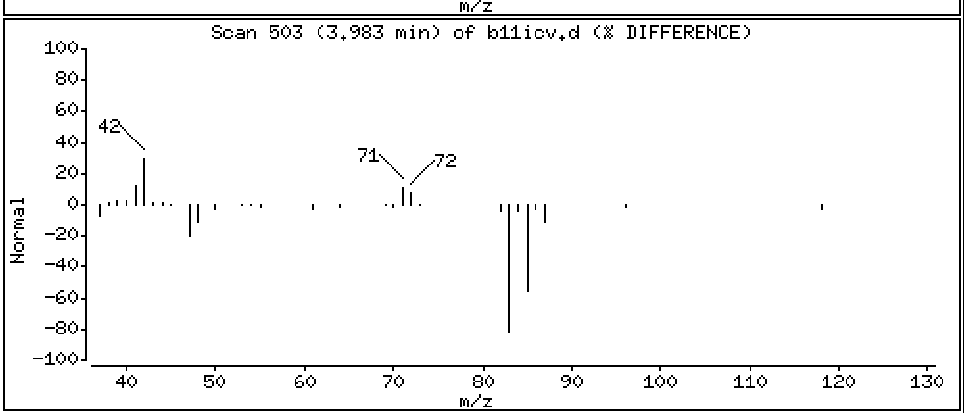
Column phase: DB-624   Column diameter: 0.18

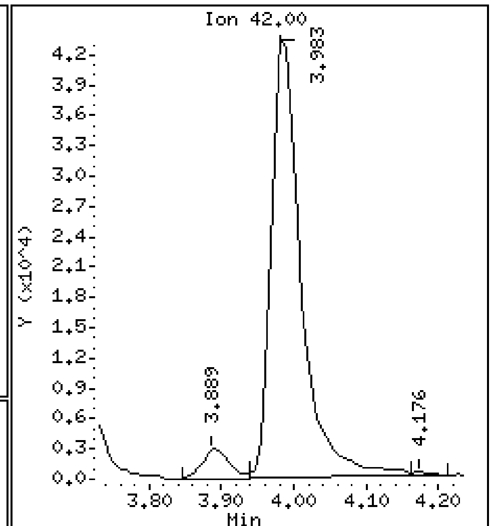
35 Tetrahydrofuran   Concentration: 251 ppb   Review Code:

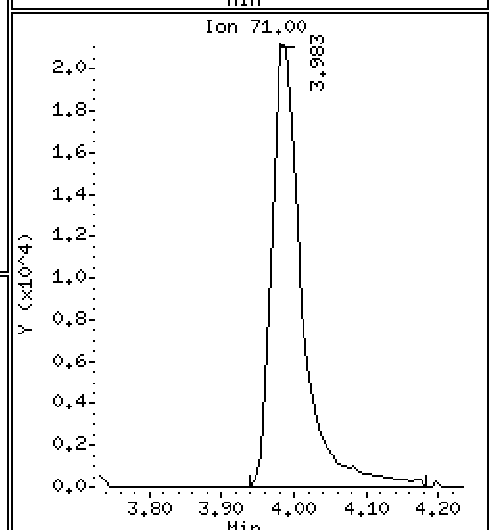


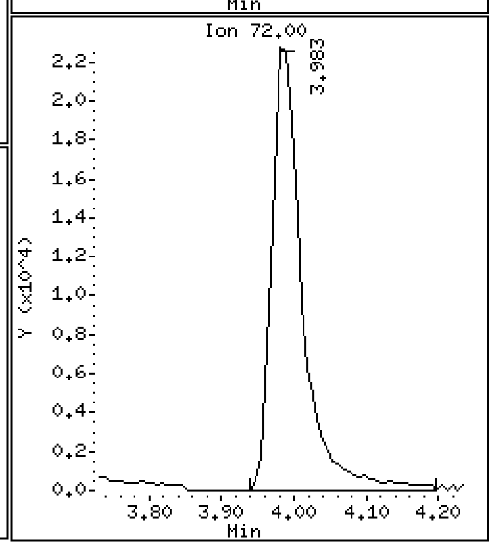












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d Page 40

Date : 16-JAN-2023 19:47

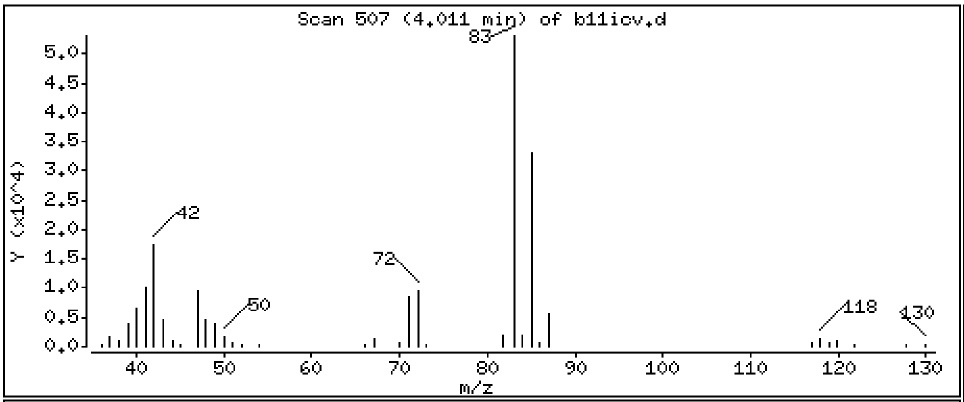
Client ID: 8260-ICV Instrument: 50mvcb.i

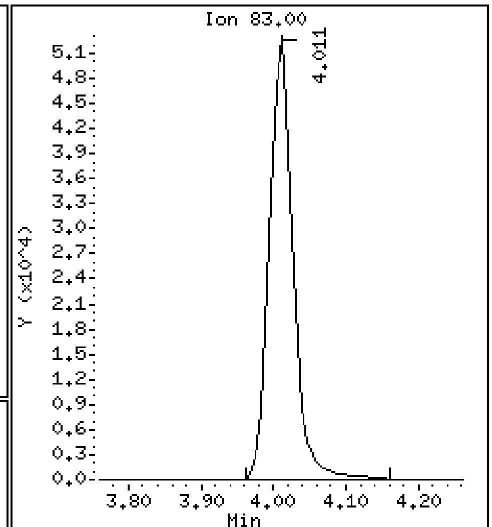
Sample Info: 8260-ICV,335770:0

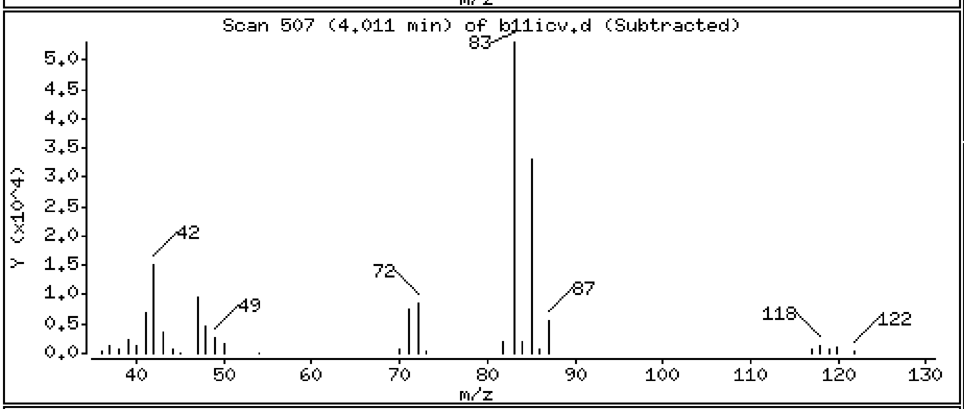
Purge Volume: 5.0 Operator: DAP

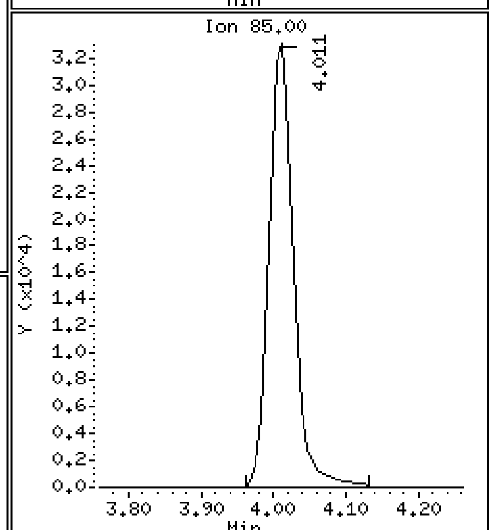
Column phase: DB-624 Column diameter: 0.18

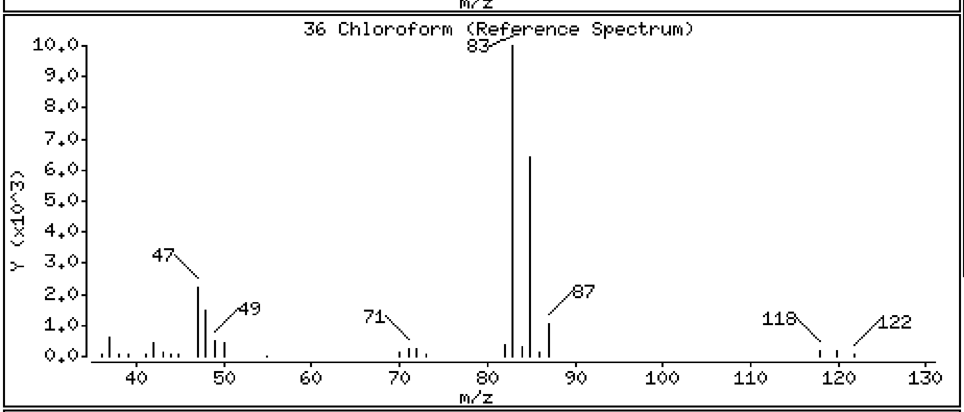
36 Chloroform Concentration: 44.1 ppb Review Code:

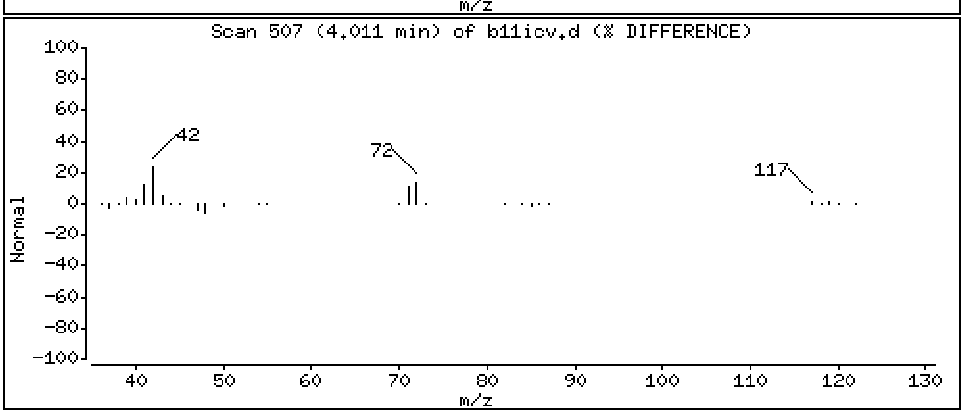












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

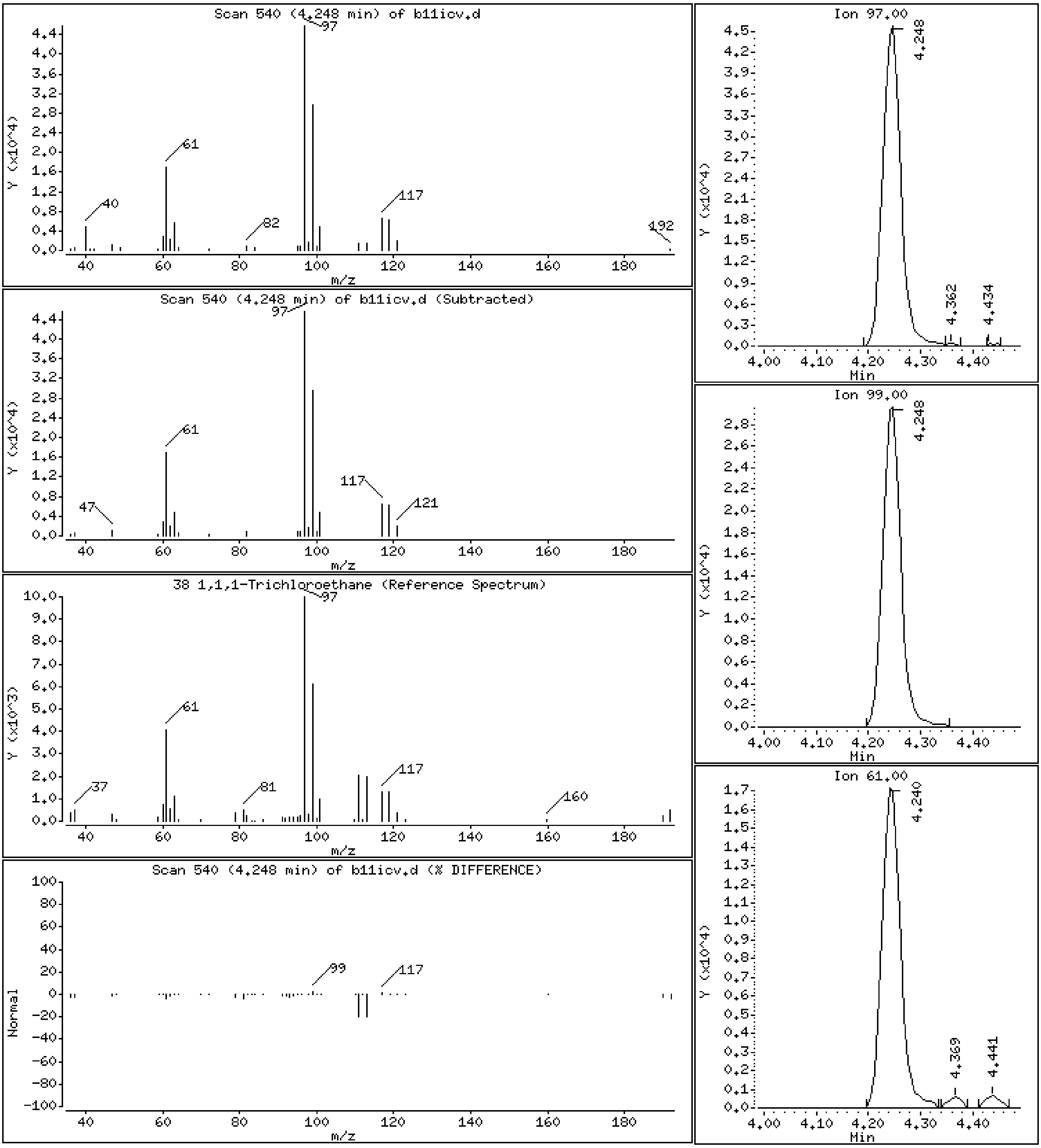
Column phase: DB-624

Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 49.2 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

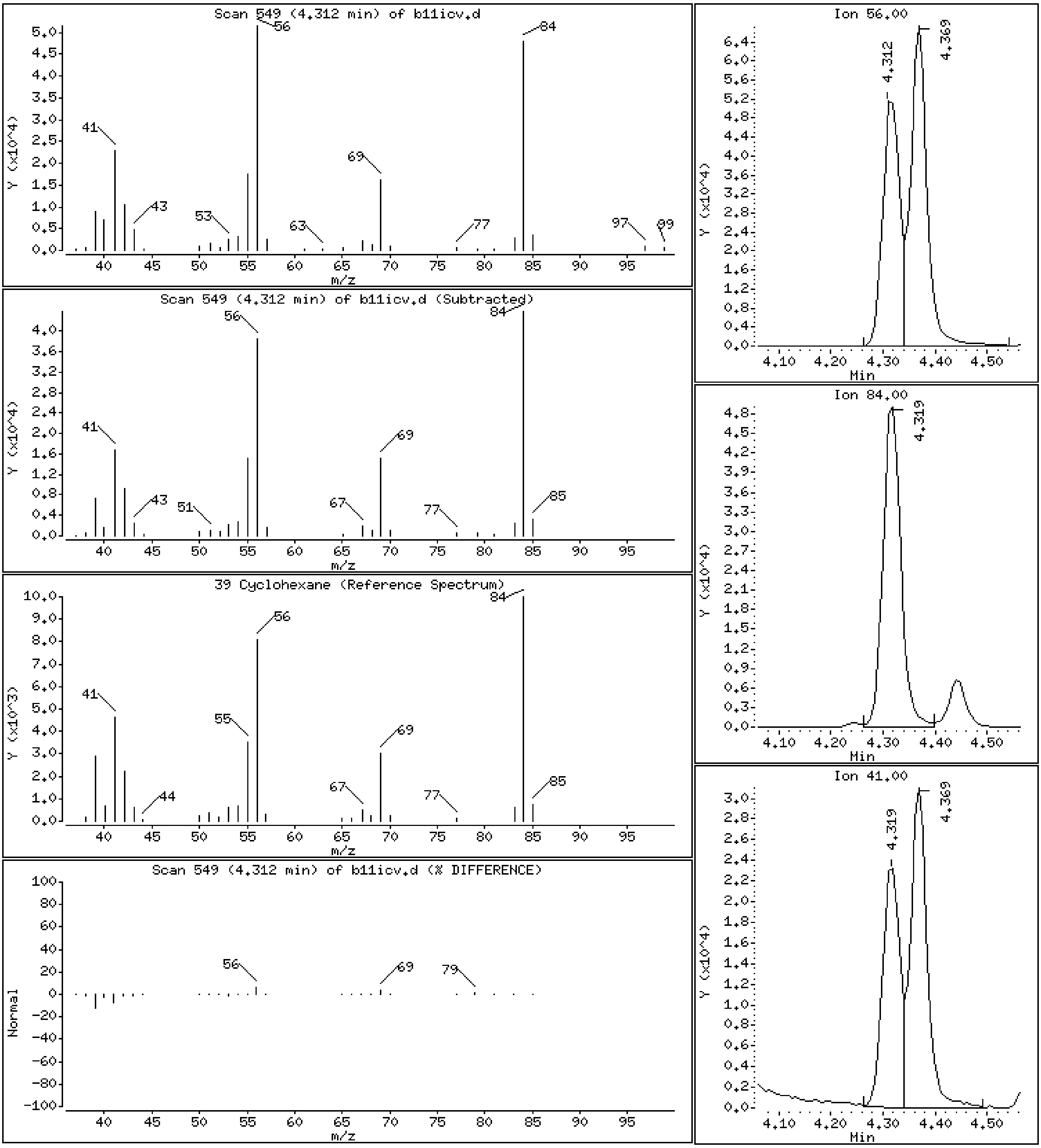
Column phase: DB-624

Column diameter: 0.18

39 Cyclohexane

Concentration: 49.9 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

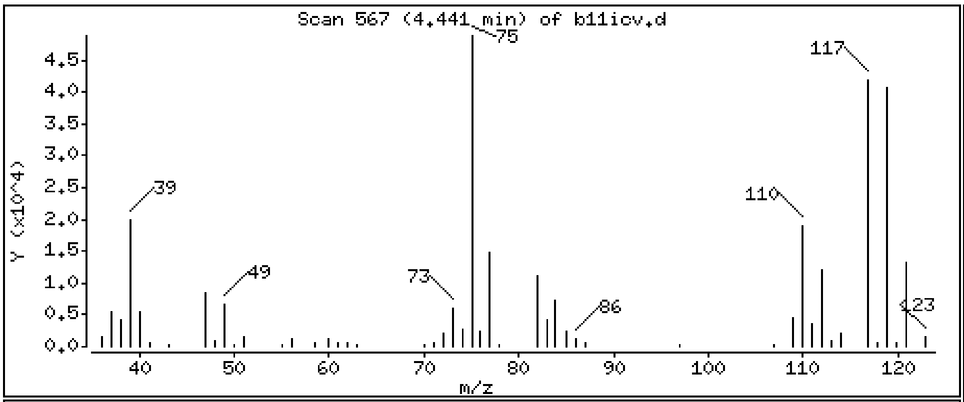
Column phase: DB-624

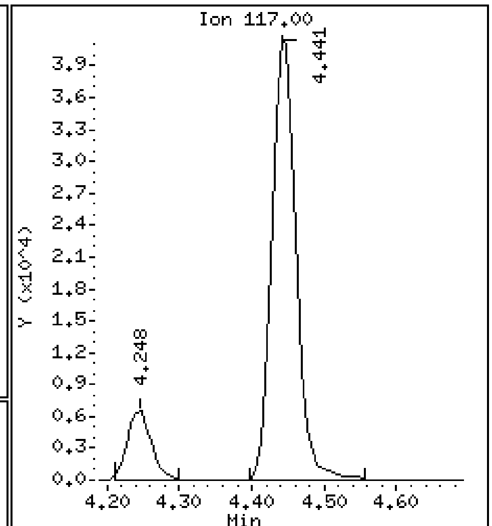
Column diameter: 0.18

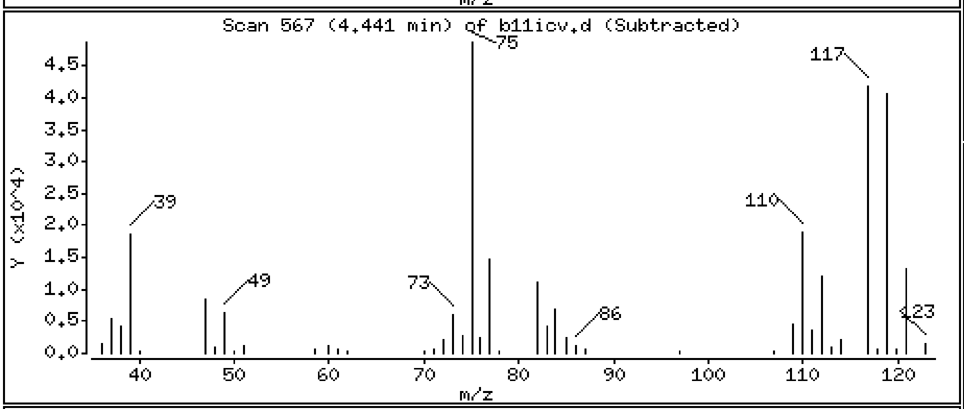
40 Carbon Tetrachloride

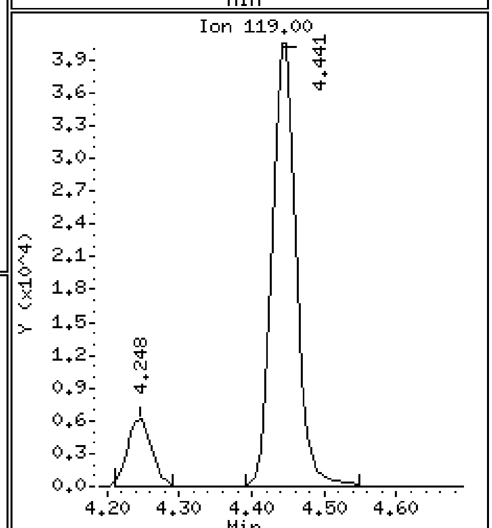
Concentration: 49.2 ppb

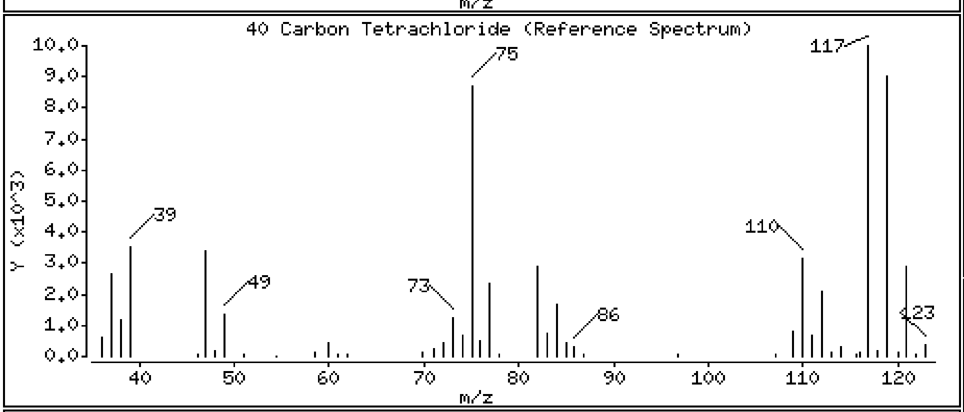
Review Code:

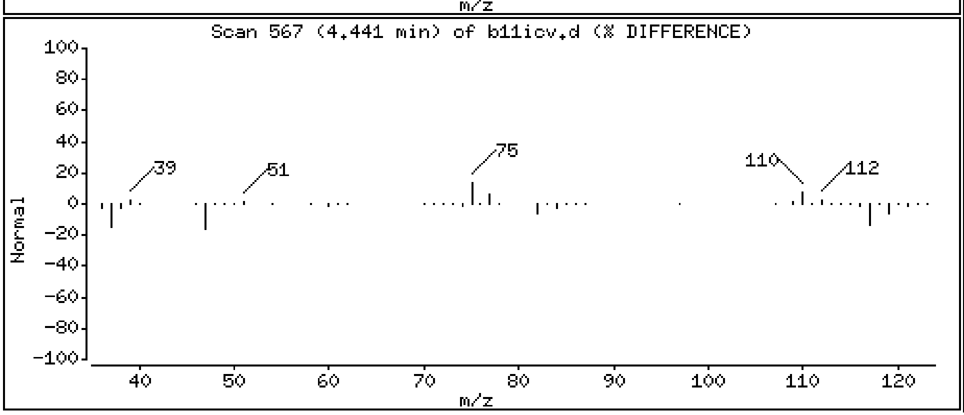


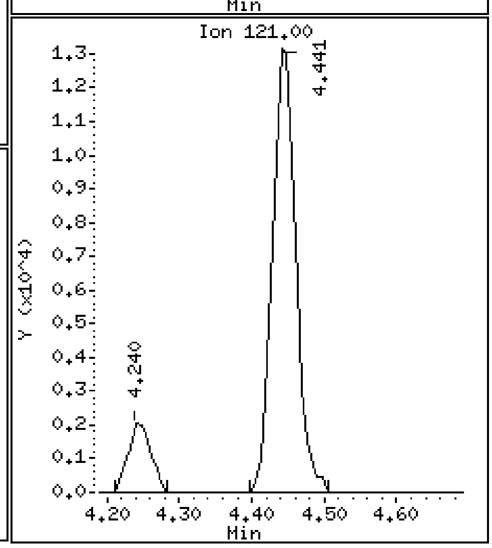












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

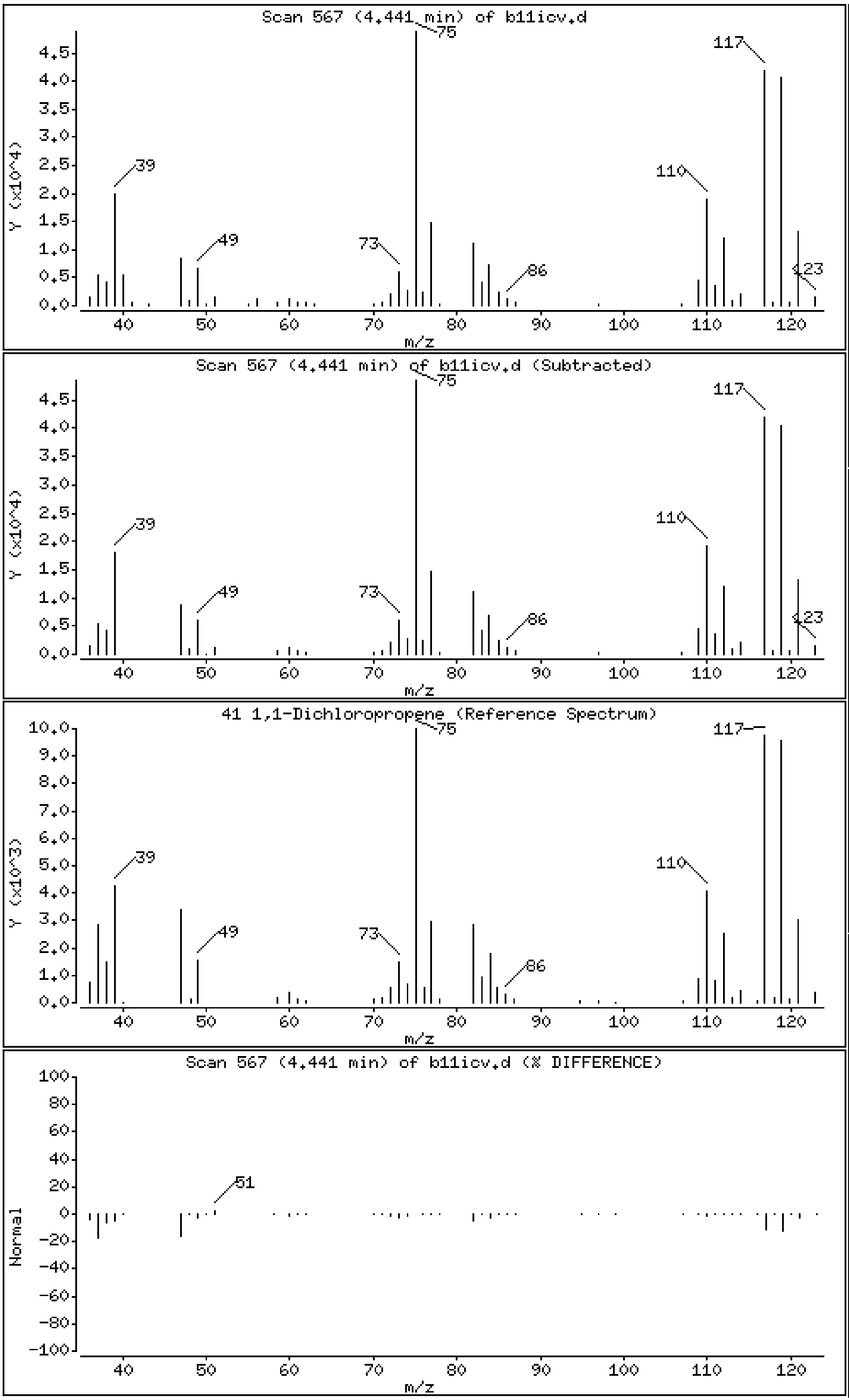
Column phase: DB-624

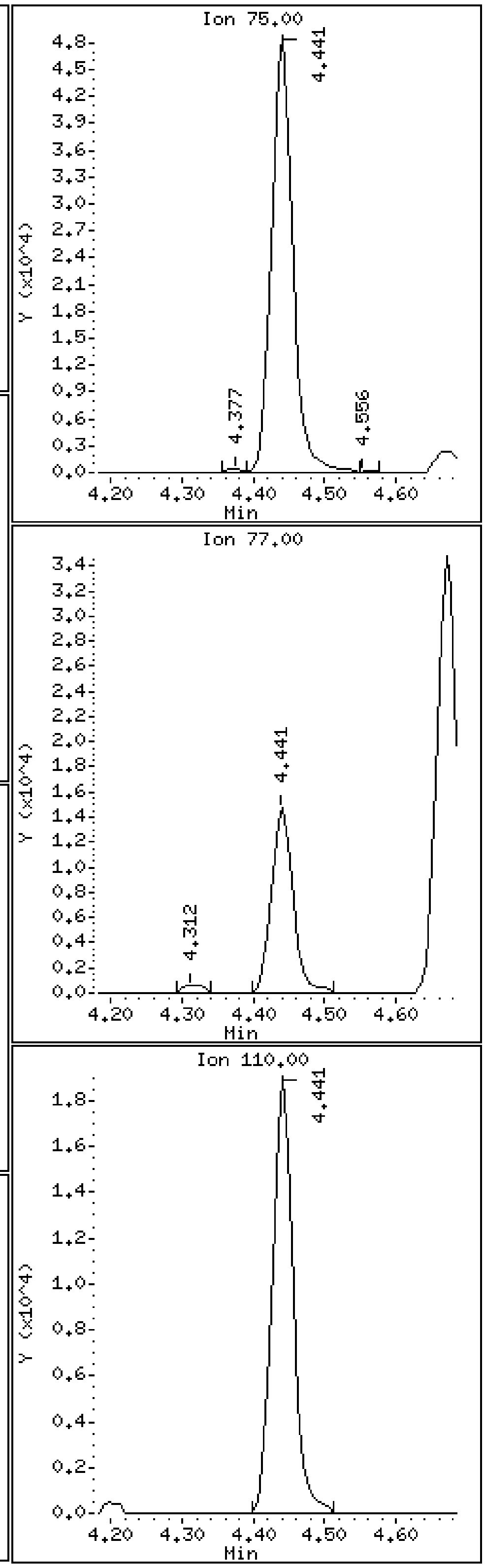
Column diameter: 0.18

41 1,1-Dichloropropene

Concentration: 51.9 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

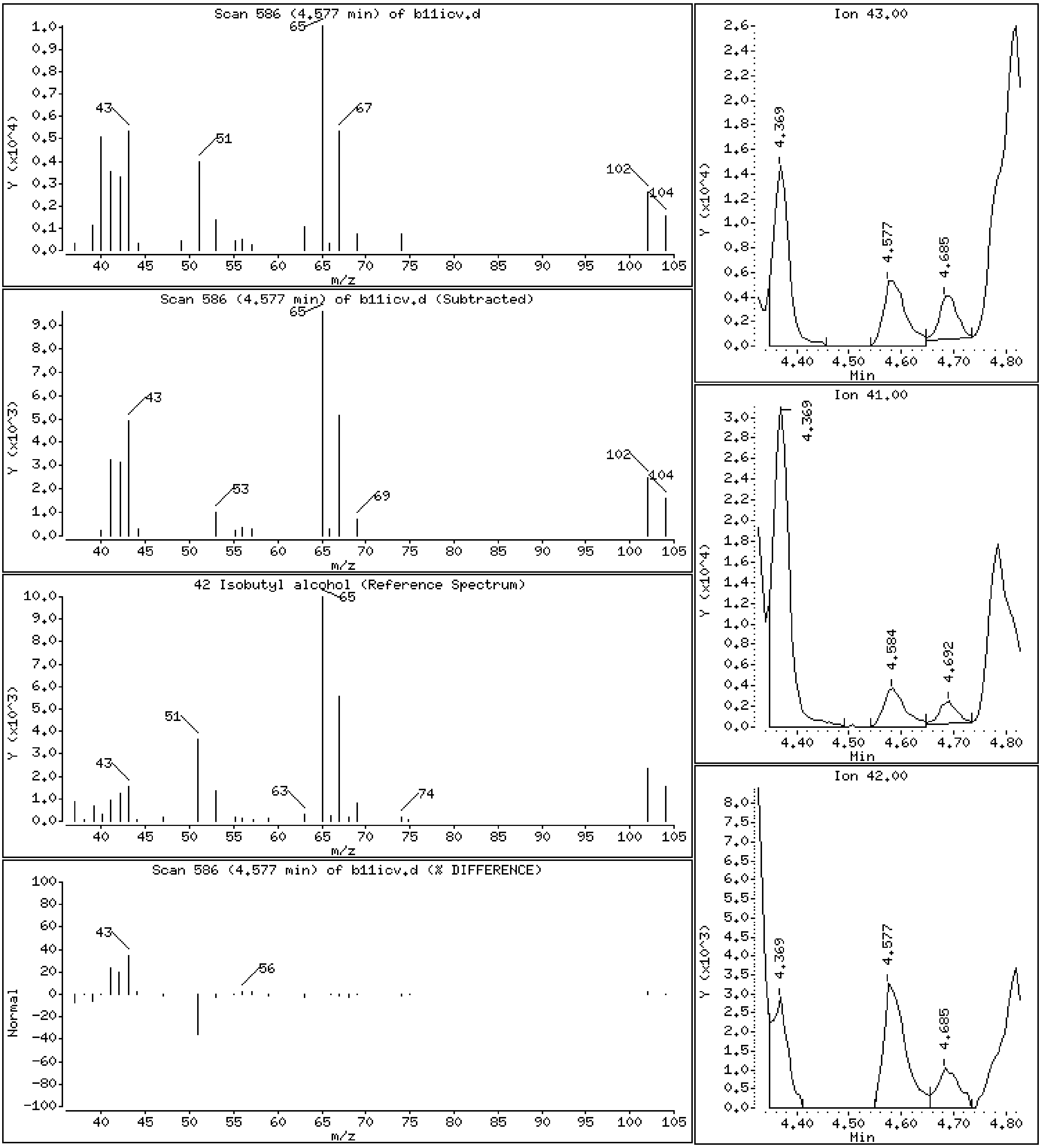
Column phase: DB-624

Column diameter: 0.18

42 Isobutyl alcohol

Concentration: 347 ppb

Review Code:



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Date : 16-JAN-2023 19:47

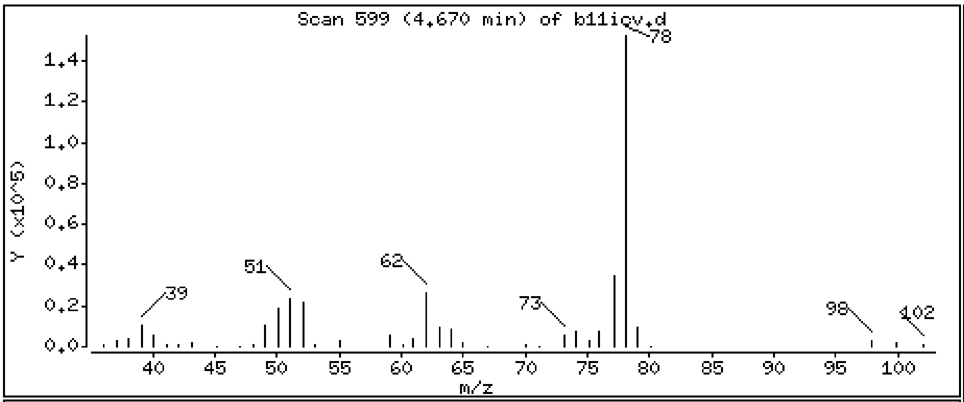
Client ID: 8260-ICV Instrument: 50mvcb.i

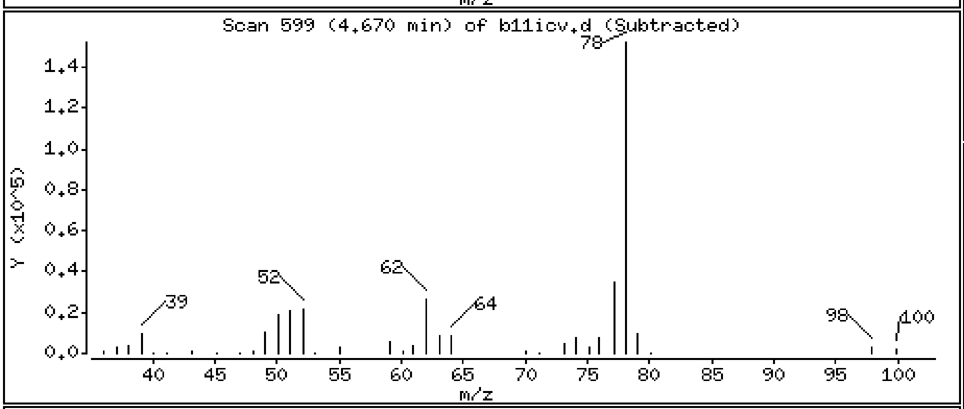
Sample Info: 8260-ICV,335770:0

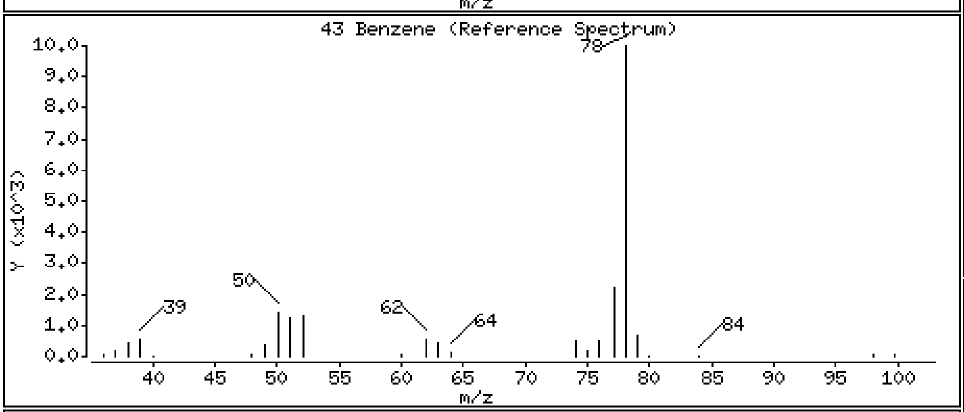
Purge Volume: 5.0 Operator: DAP

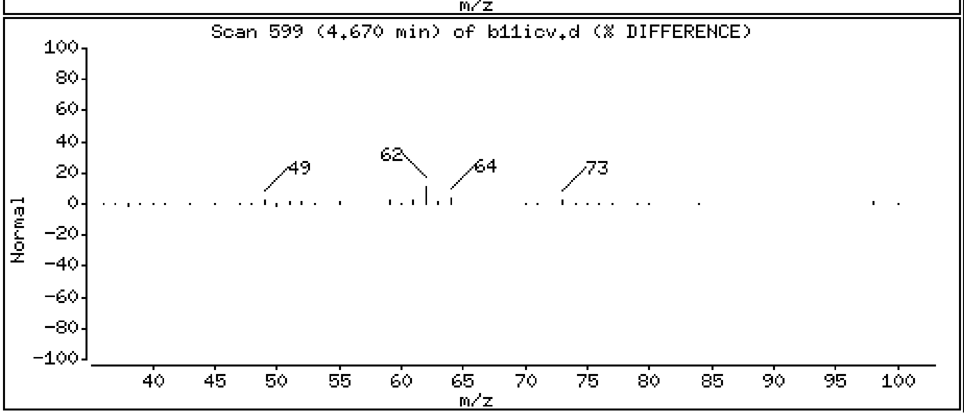
Column phase: DB-624 Column diameter: 0.18

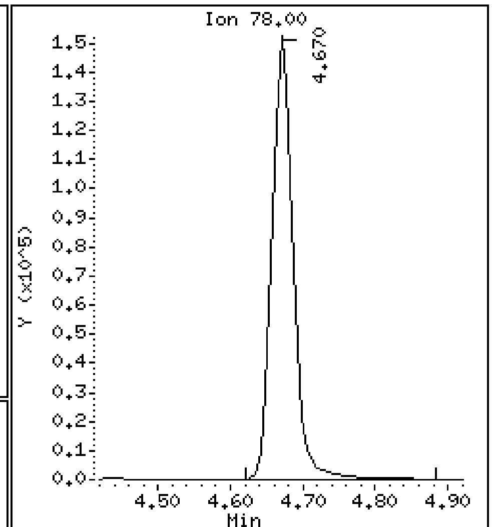
43 Benzene Concentration: 46.4 ppb Review Code:

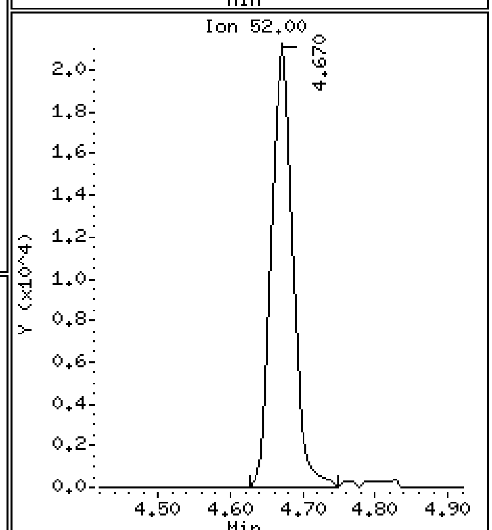


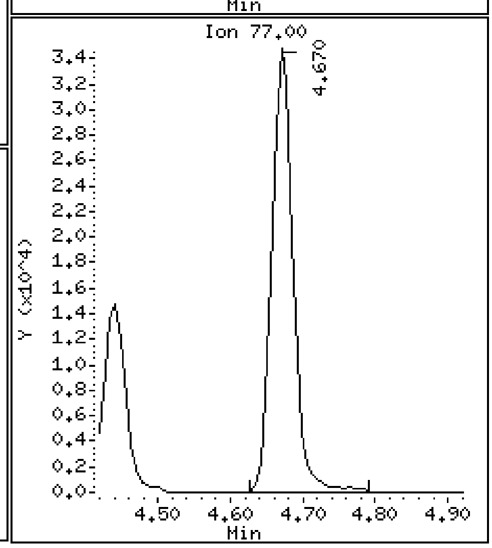












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

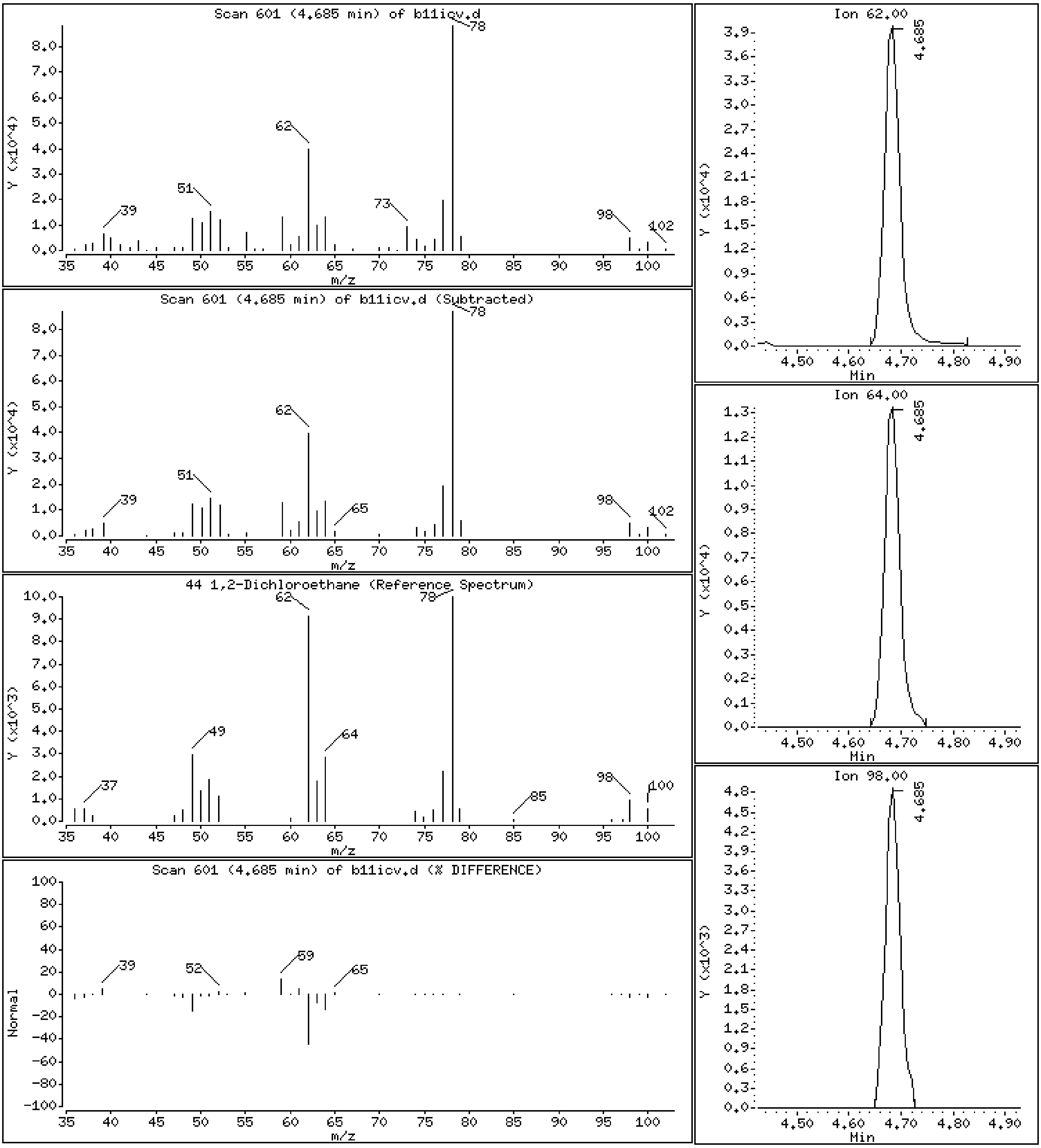
Column phase: DB-624

Column diameter: 0.18

44 1,2-Dichloroethane

Concentration: 50.2 ppb

Review Code:



Date : 16-JAN-2023 19:47

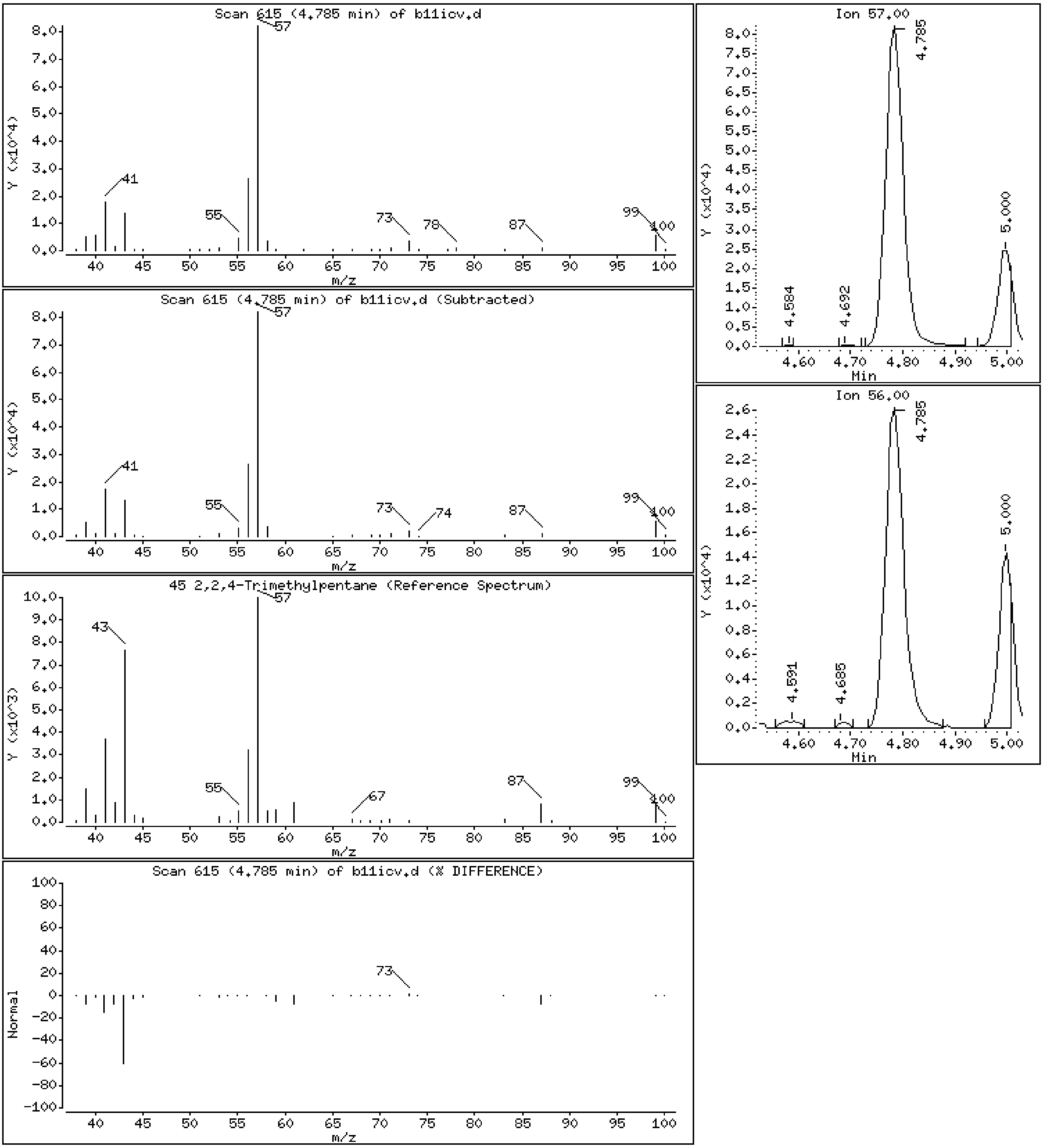
Client ID: 8260-ICV Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0 Operator: DAP

Column phase: DB-624 Column diameter: 0.18

45 2,2,4-Trimethylpentane Concentration: 51.1 ppb Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

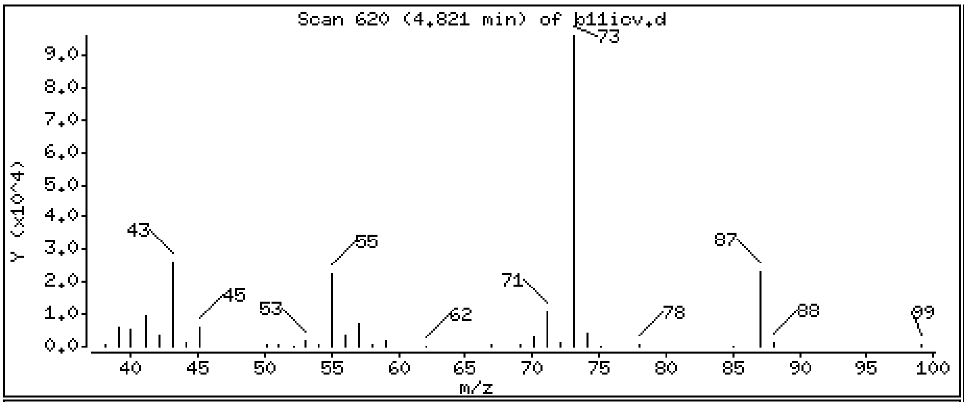
Column phase: DB-624

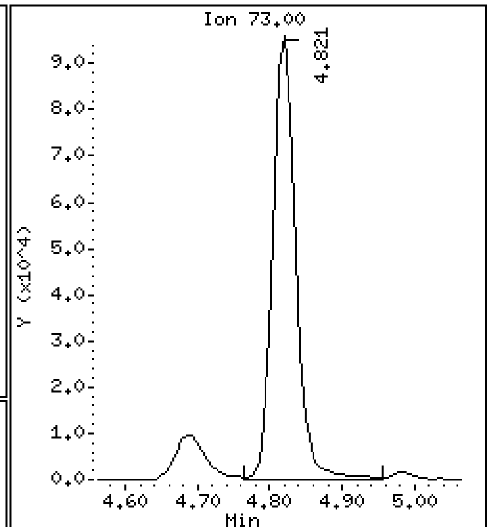
Column diameter: 0.18

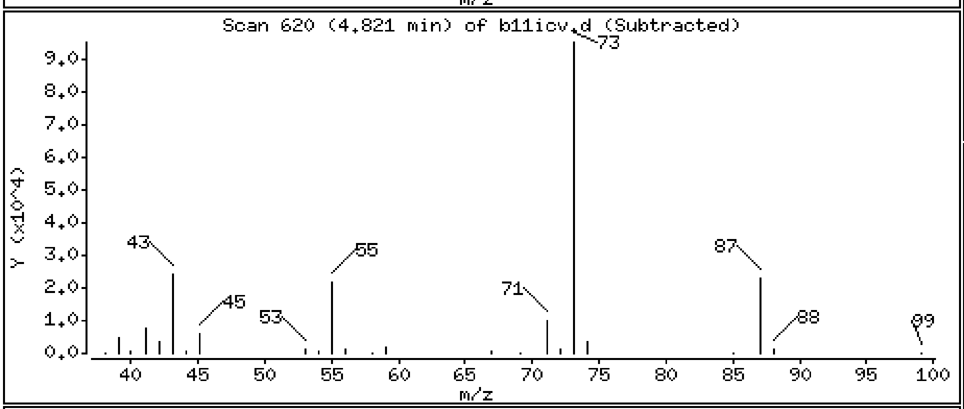
46 tert-Amylmethyl ether

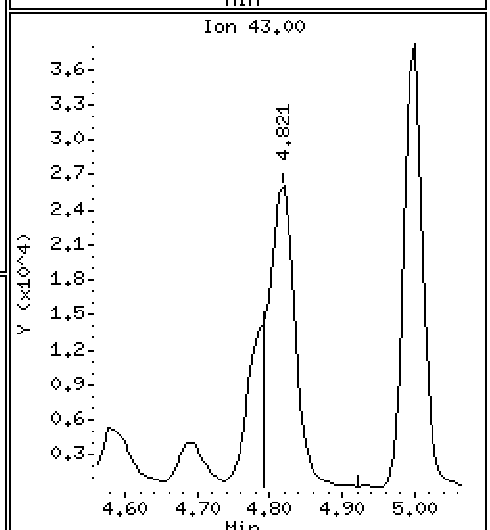
Concentration: 48.4 ppb

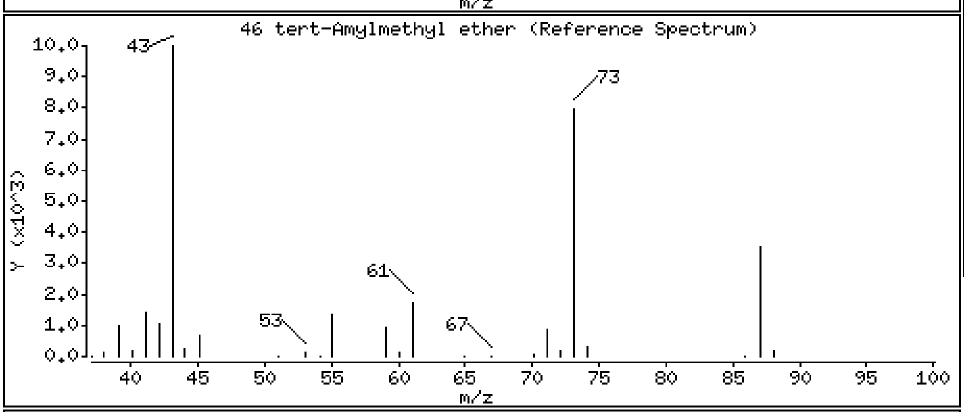
Review Code: LT

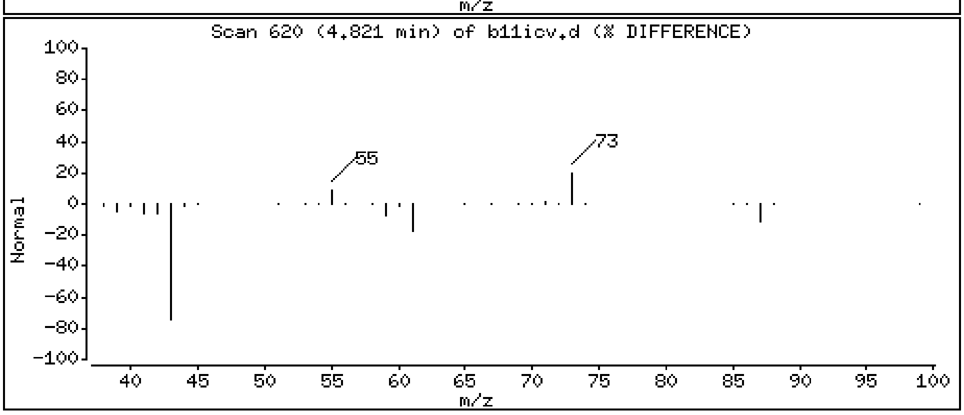












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d Page 50

Date : 16-JAN-2023 19:47

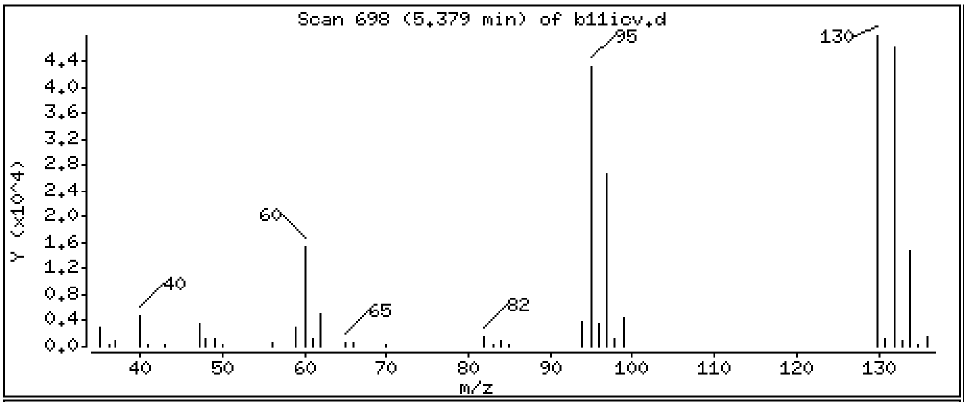
Client ID: 8260-ICV Instrument: 50mvcb.i

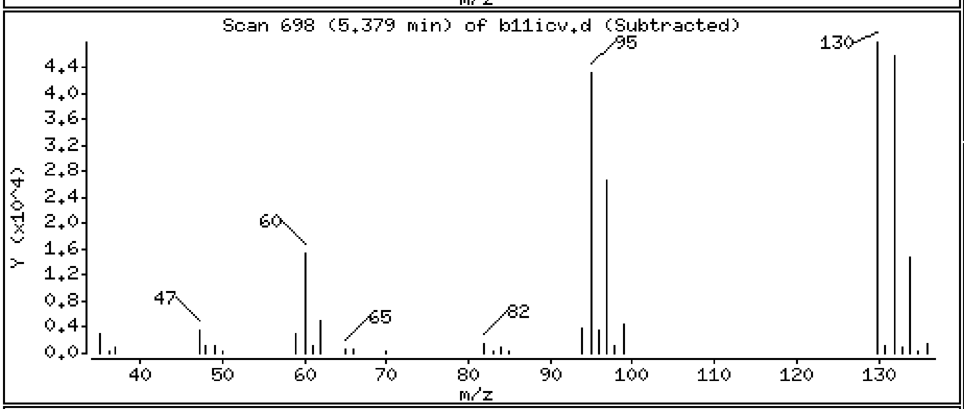
Sample Info: 8260-ICV,335770:0

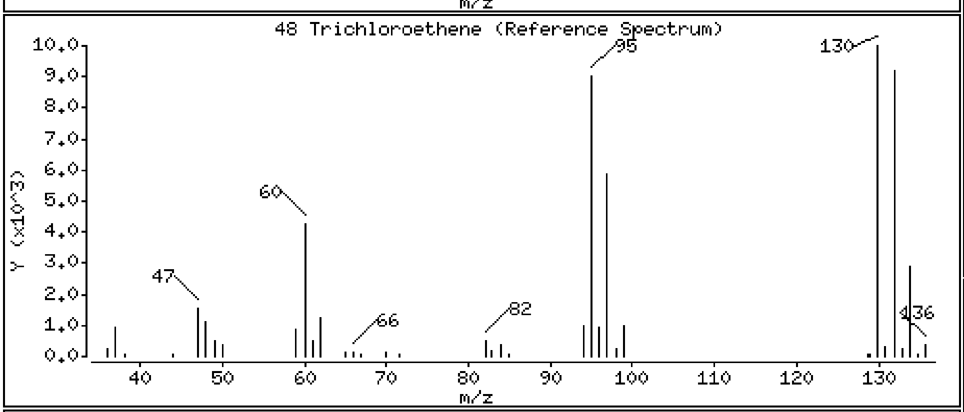
Purge Volume: 5.0 Operator: DAP

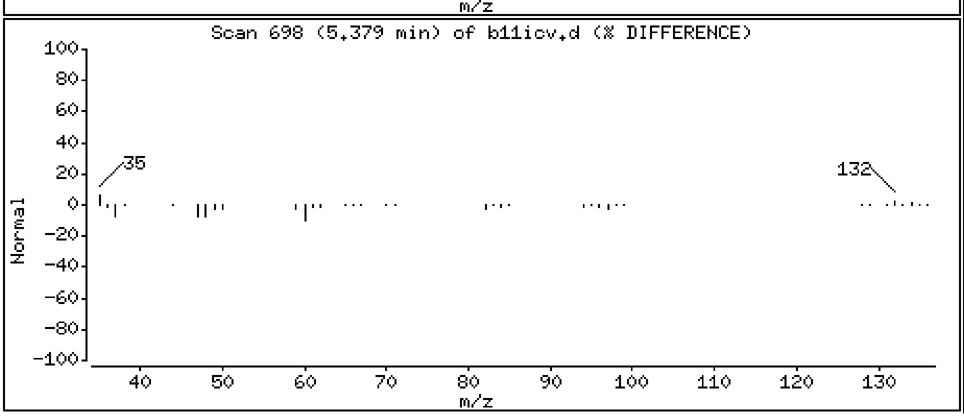
Column phase: DB-624 Column diameter: 0.18

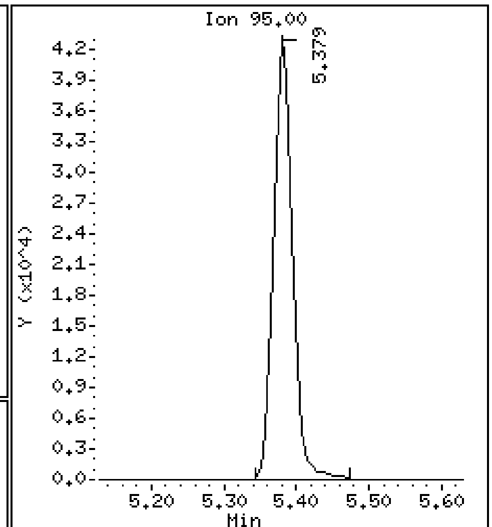
48 Trichloroethene Concentration: 46.5 ppb Review Code:

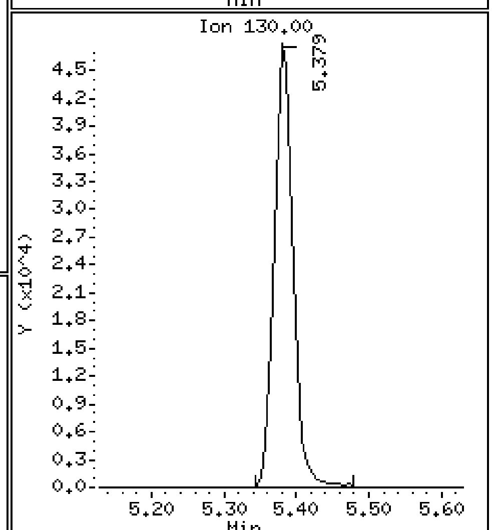


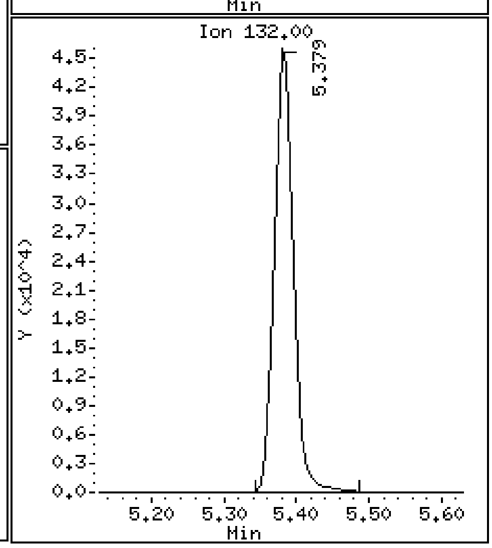












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

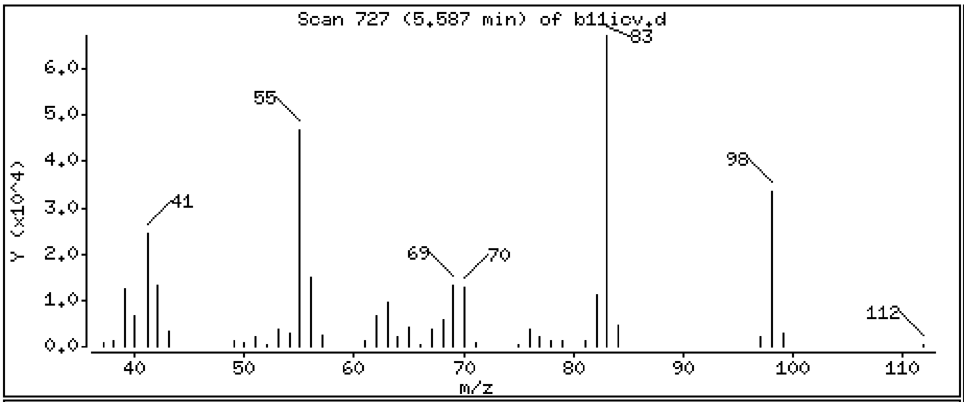
Column phase: DB-624

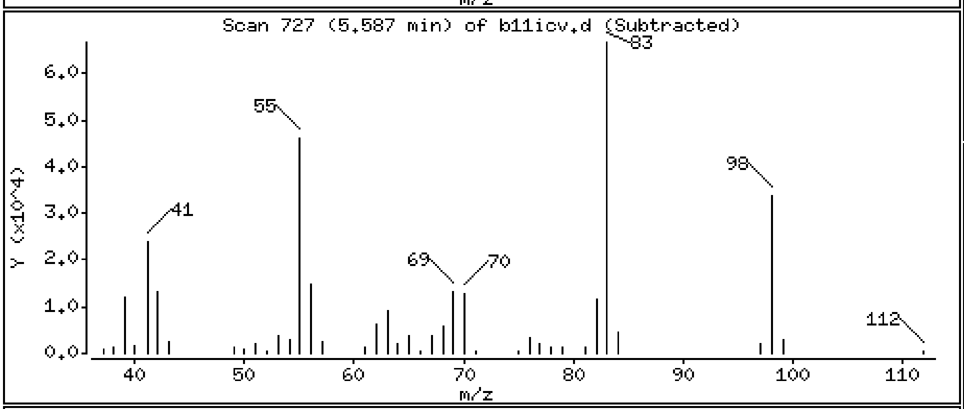
Column diameter: 0.18

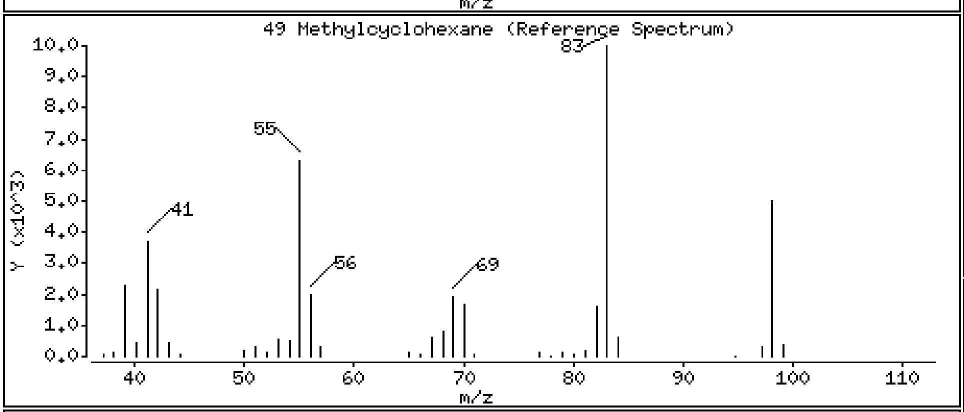
49 Methylcyclohexane

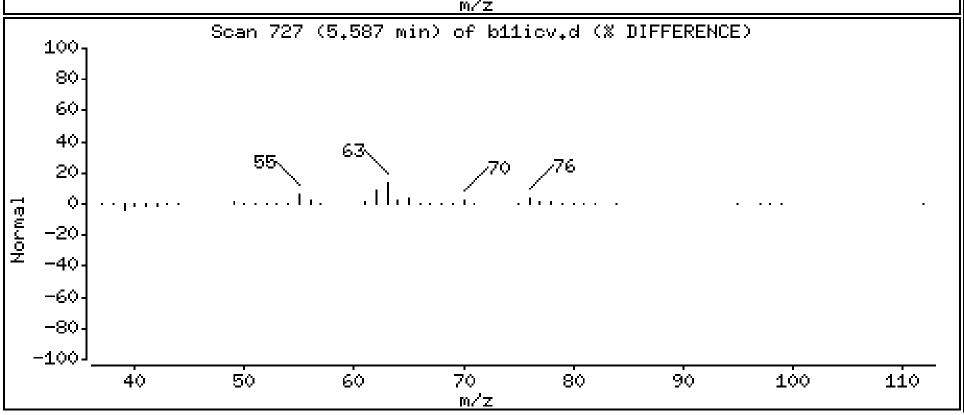
Concentration: 49.3 ppb

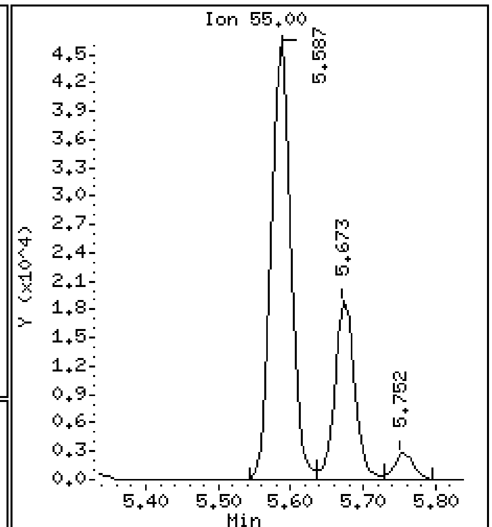
Review Code:

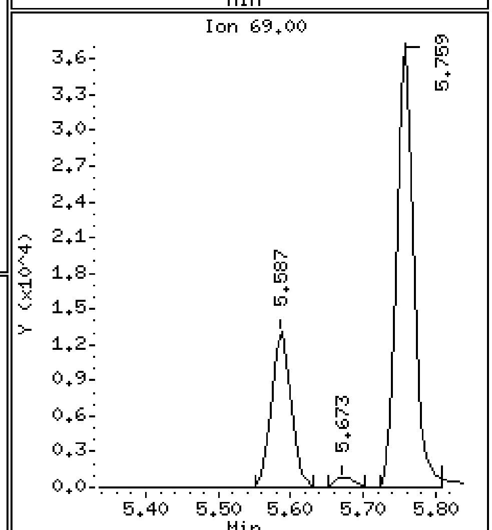


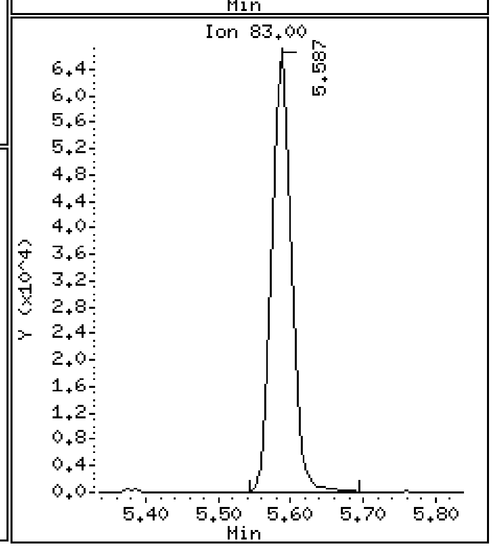












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

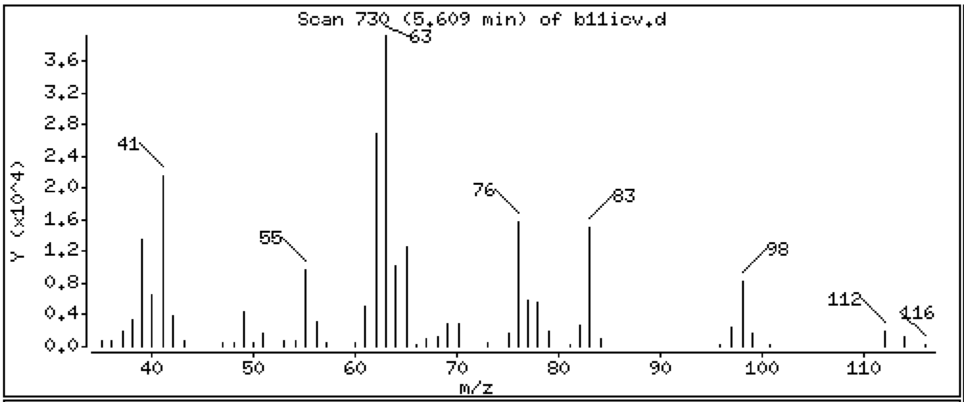
Column phase: DB-624

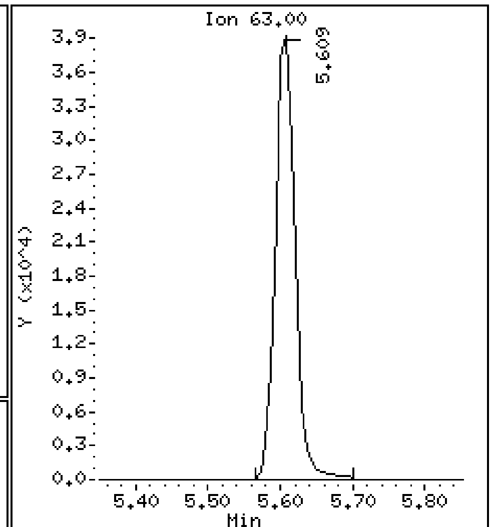
Column diameter: 0.18

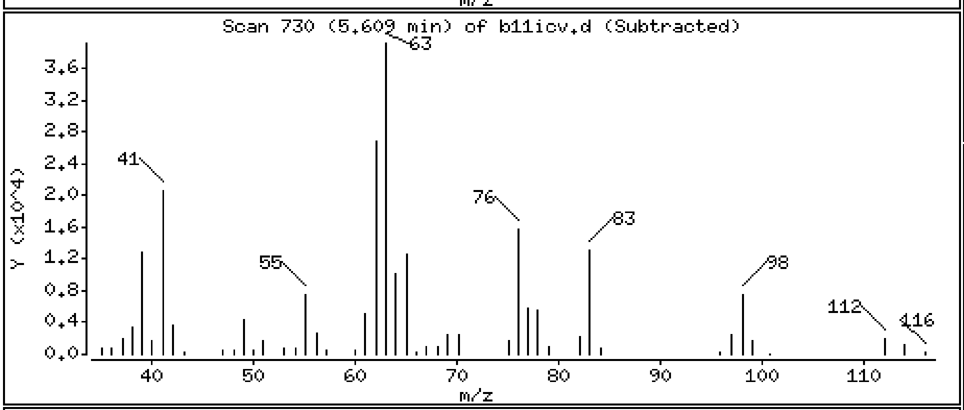
50 1,2-Dichloropropane

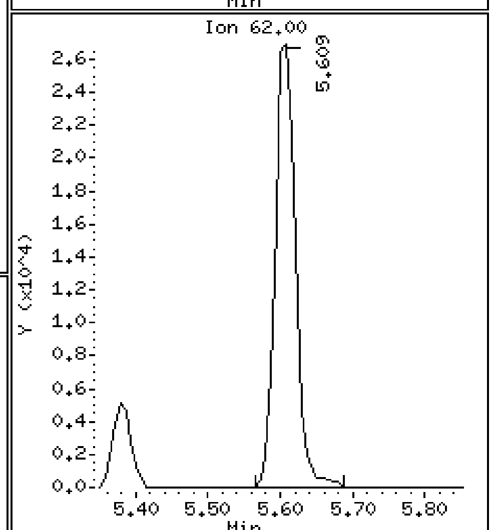
Concentration: 49.7 ppb

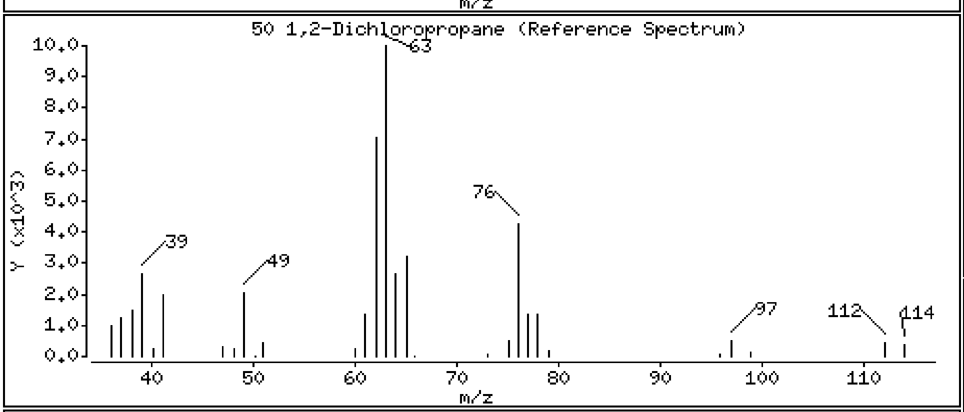
Review Code:

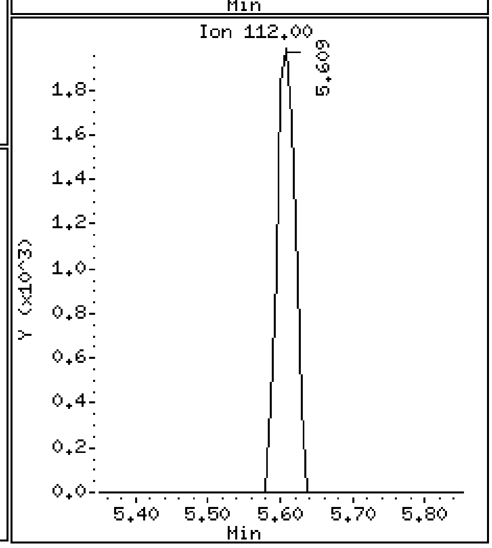


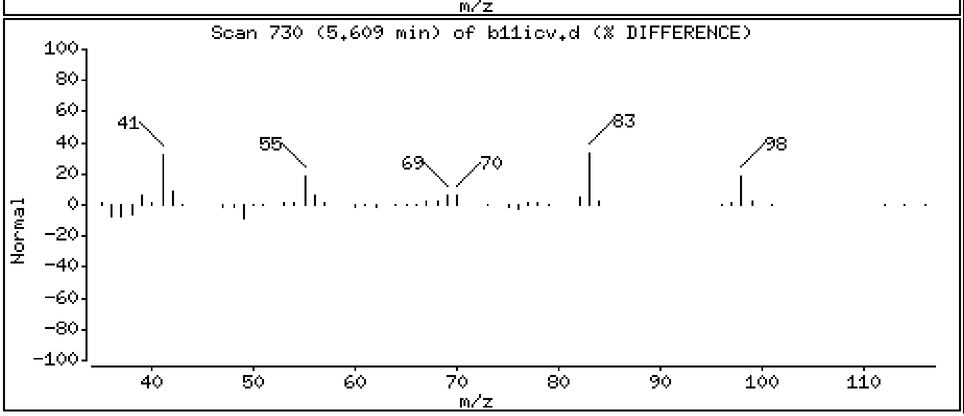












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

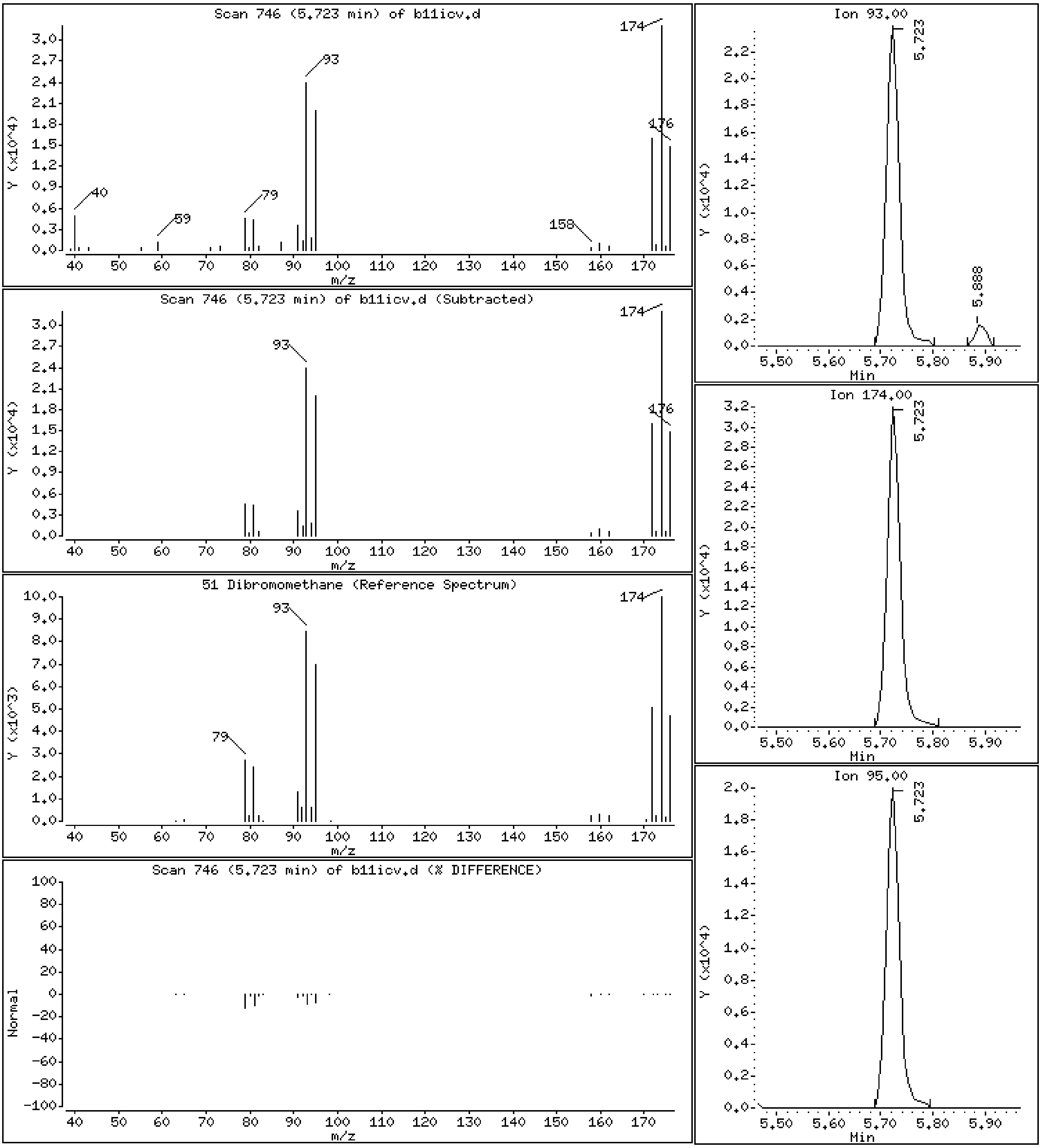
Column phase: DB-624

Column diameter: 0.18

51 Dibromomethane

Concentration: 44.6 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

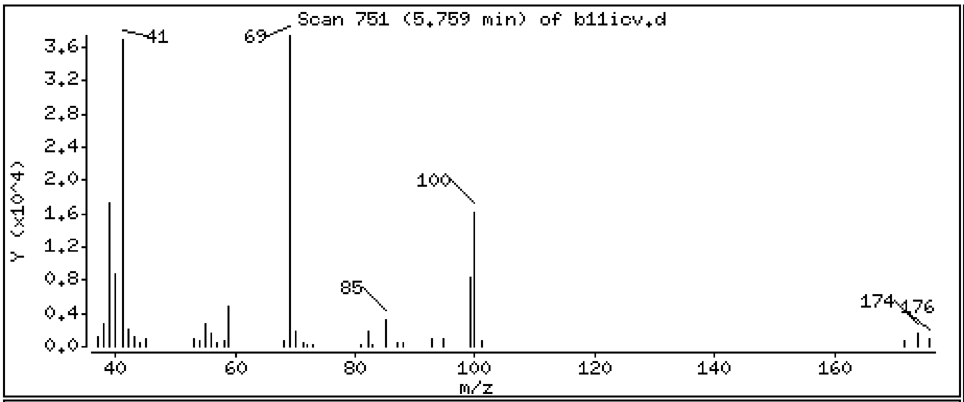
Column phase: DB-624

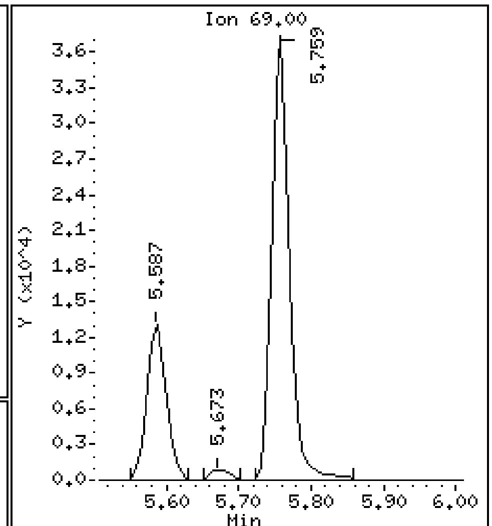
Column diameter: 0.18

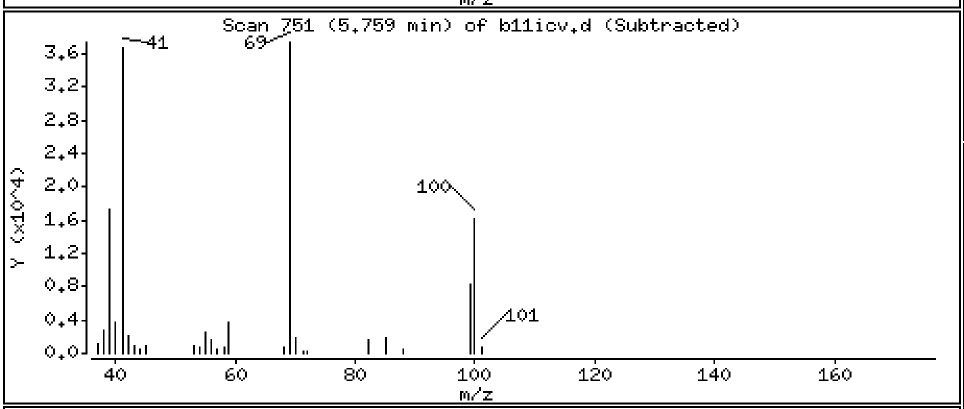
52 Methyl methacrylate

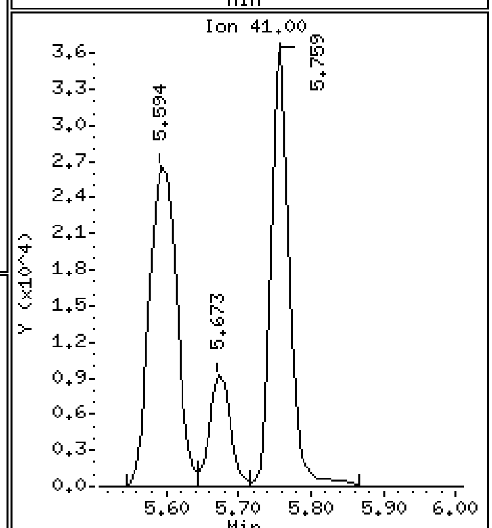
Concentration: 52.0 ppb

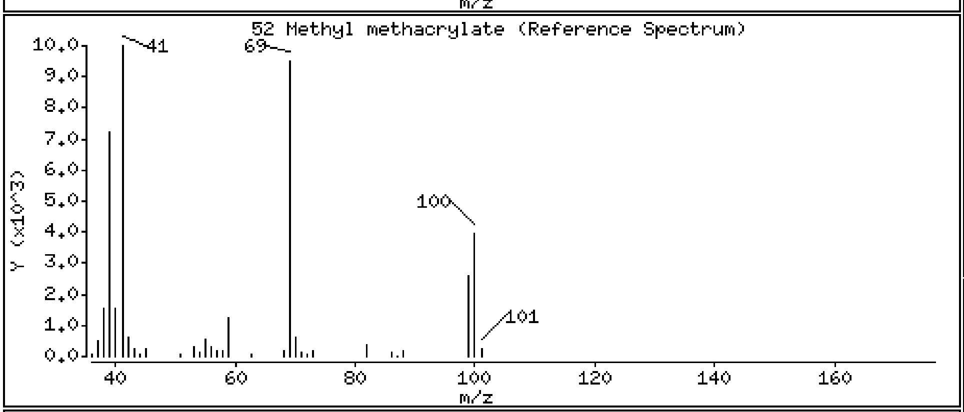
Review Code:

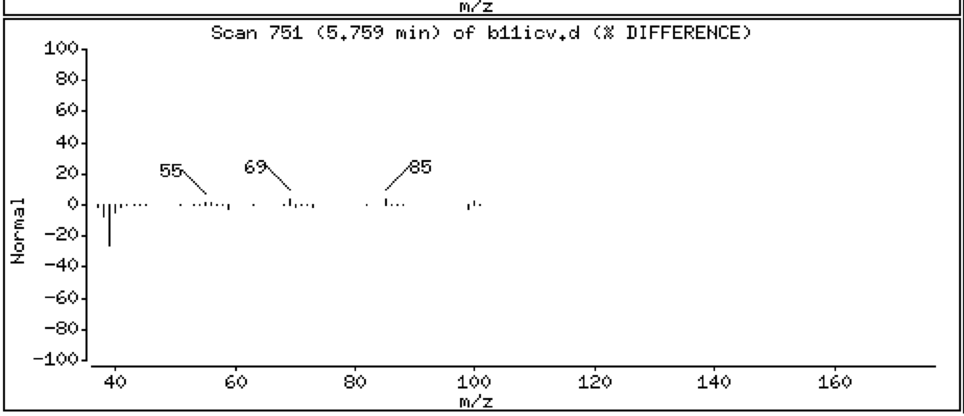


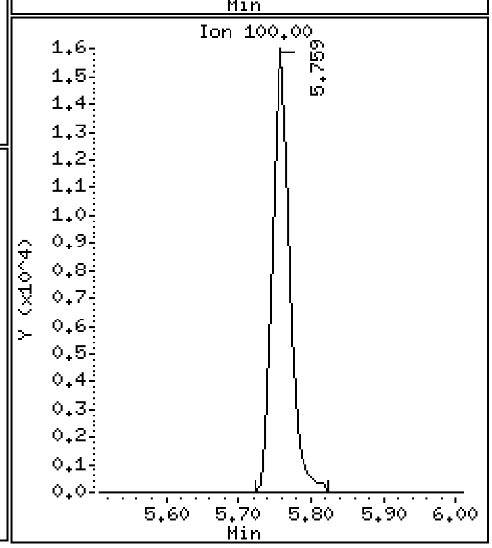












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

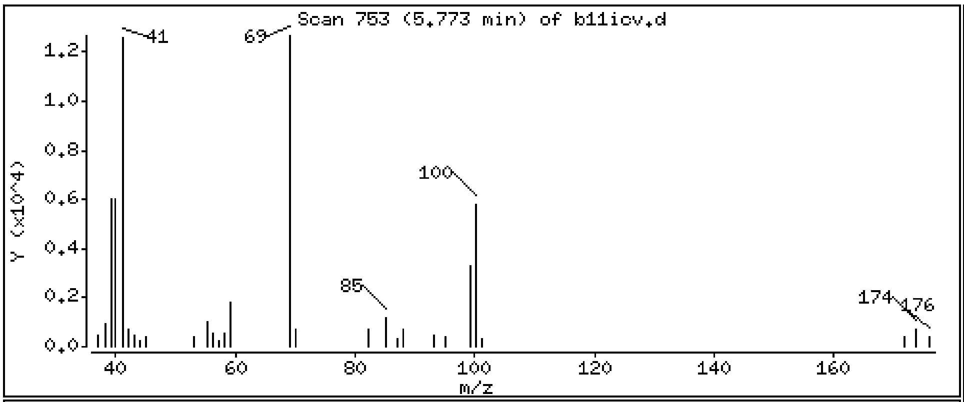
Column phase: DB-624

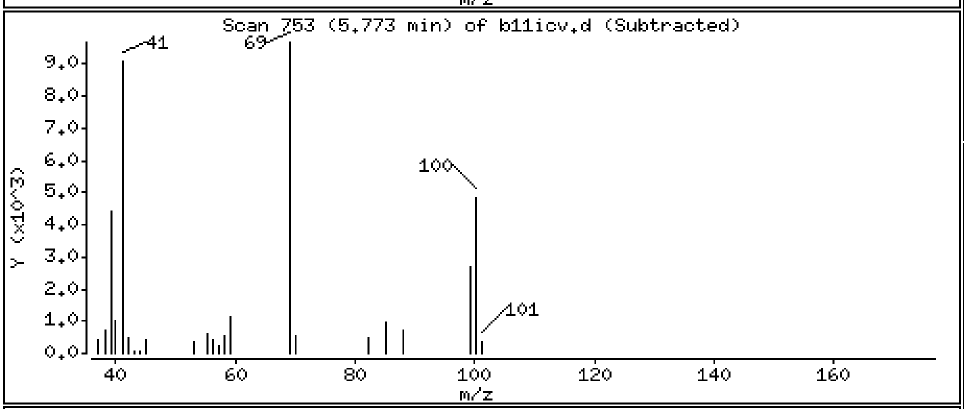
Column diameter: 0.18

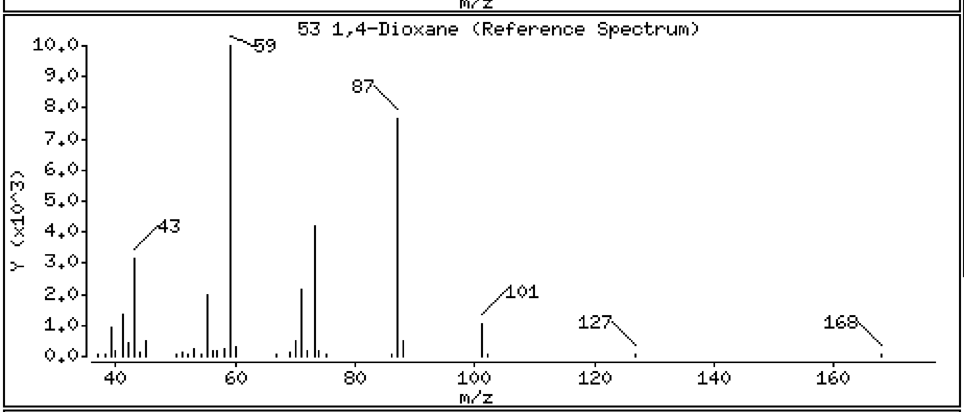
53 1,4-Dioxane

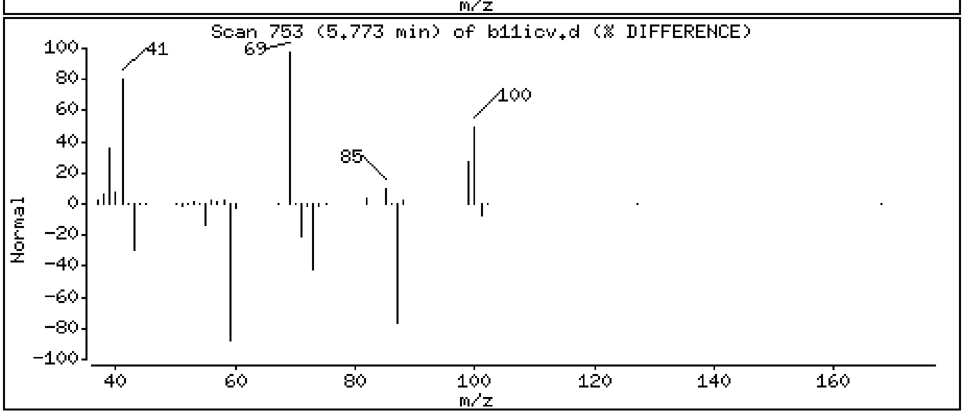
Concentration: 478 ppb

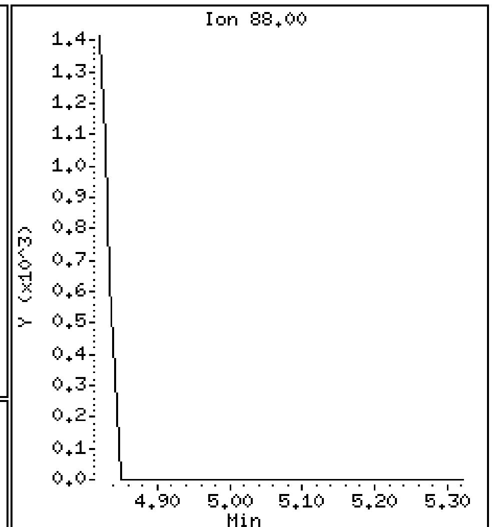
Review Code:

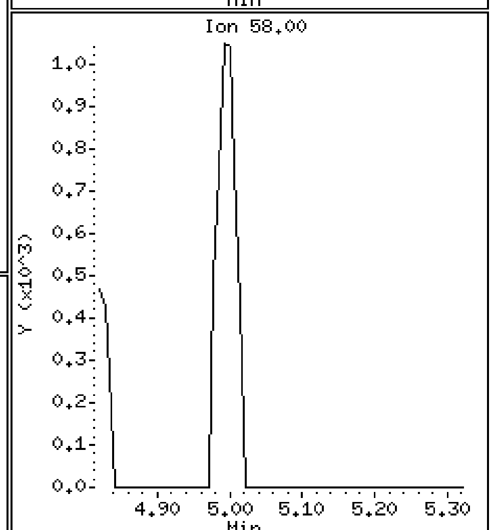












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

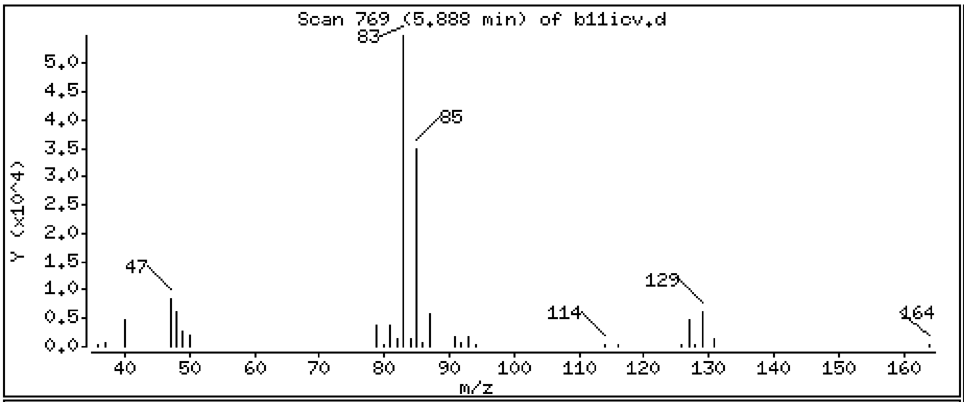
Column phase: DB-624

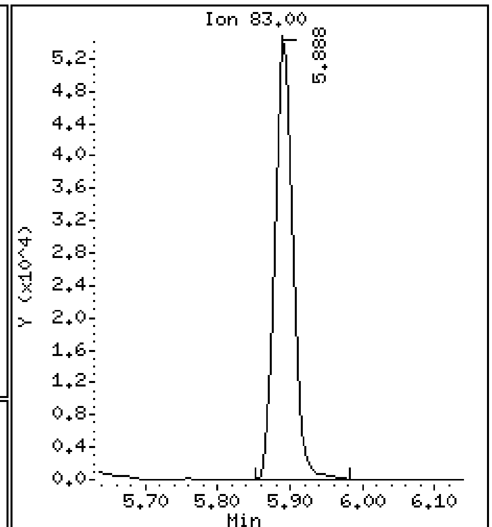
Column diameter: 0.18

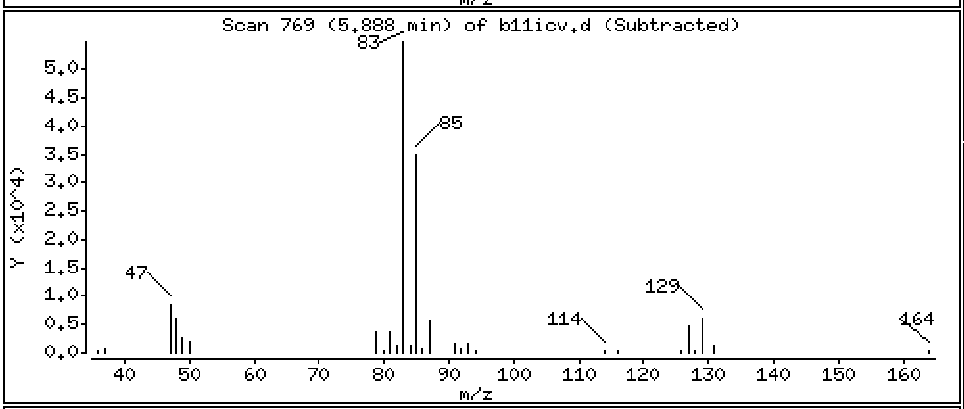
54 Bromodichloromethane

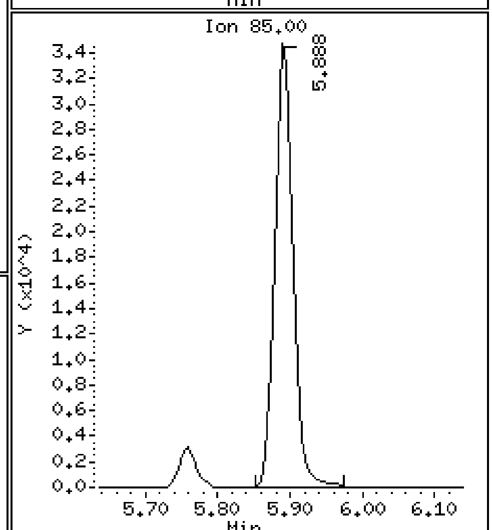
Concentration: 52.1 ppb

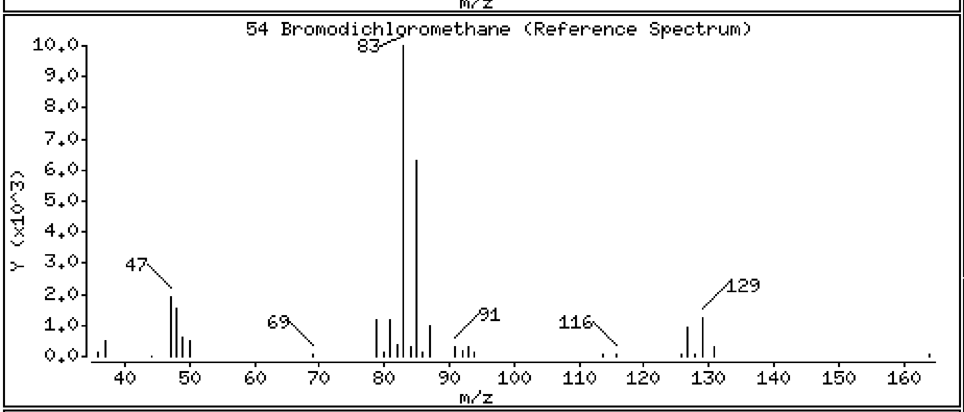
Review Code:

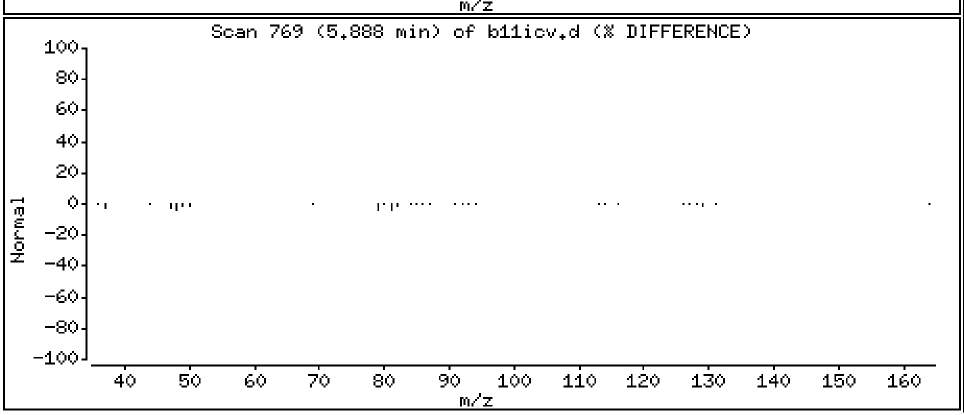


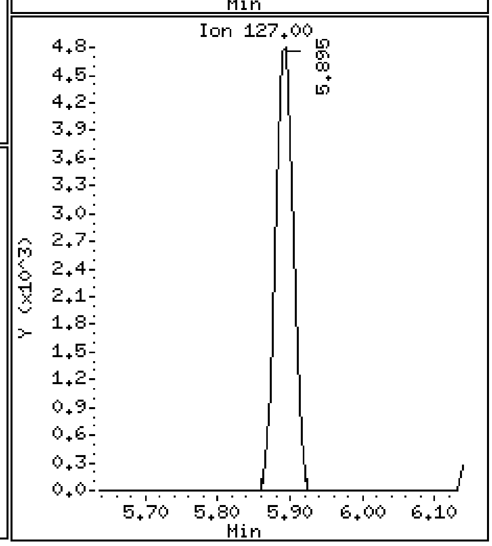












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

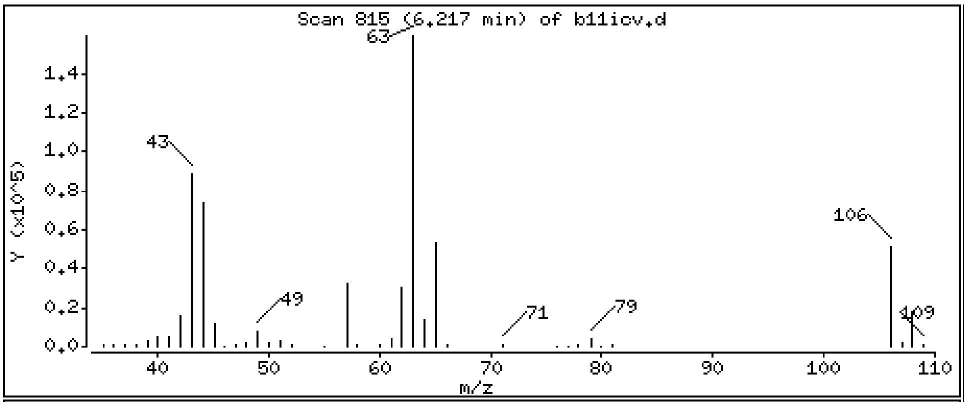
Column phase: DB-624

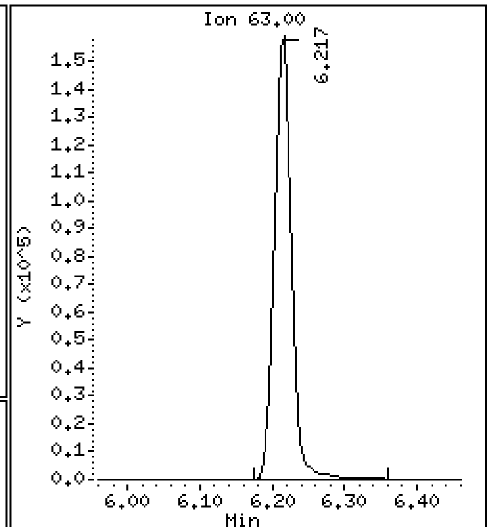
Column diameter: 0.18

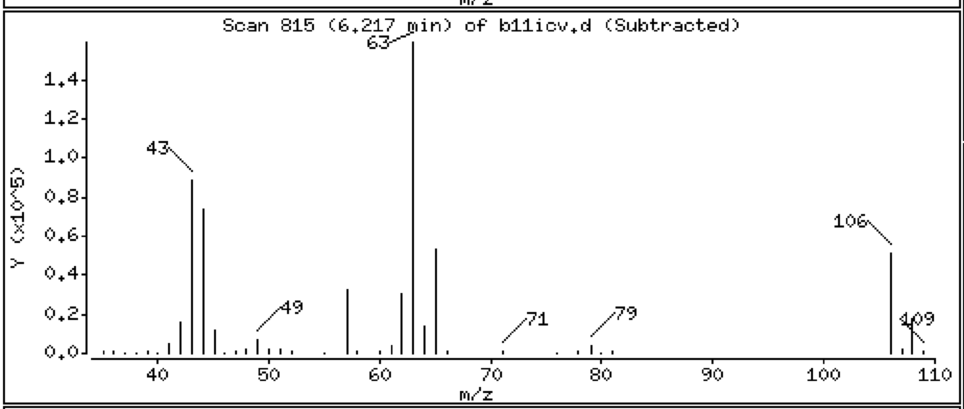
55 2-Chloroethyl vinyl ether

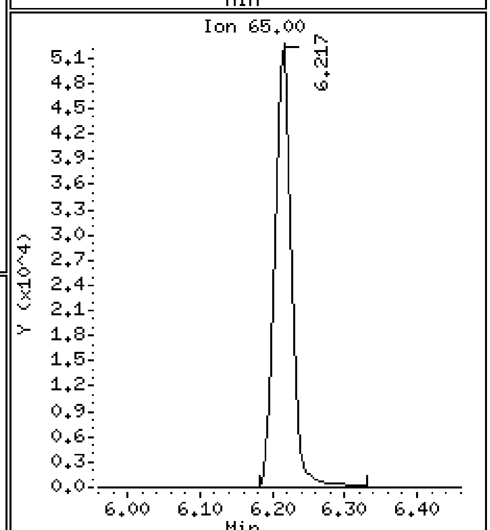
Concentration: 261 ppb

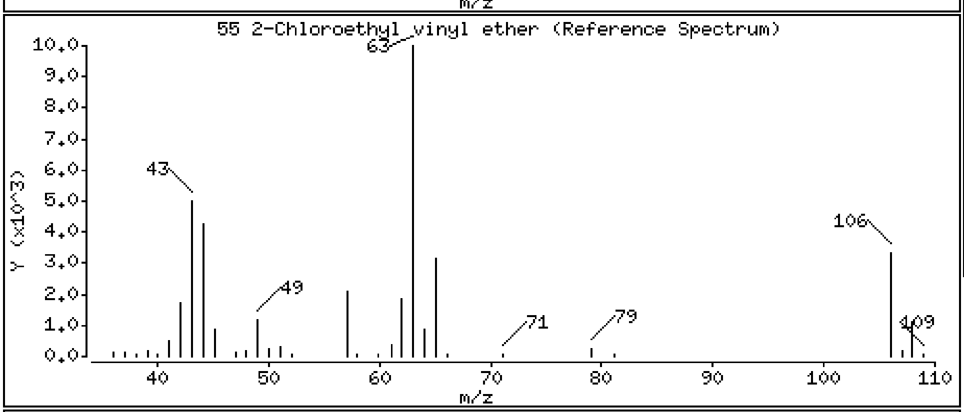
Review Code:

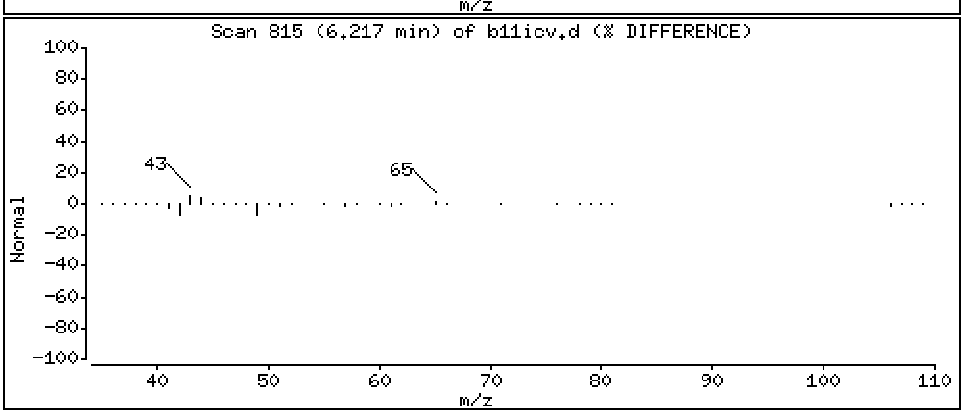












Date : 16-JAN-2023 19:47

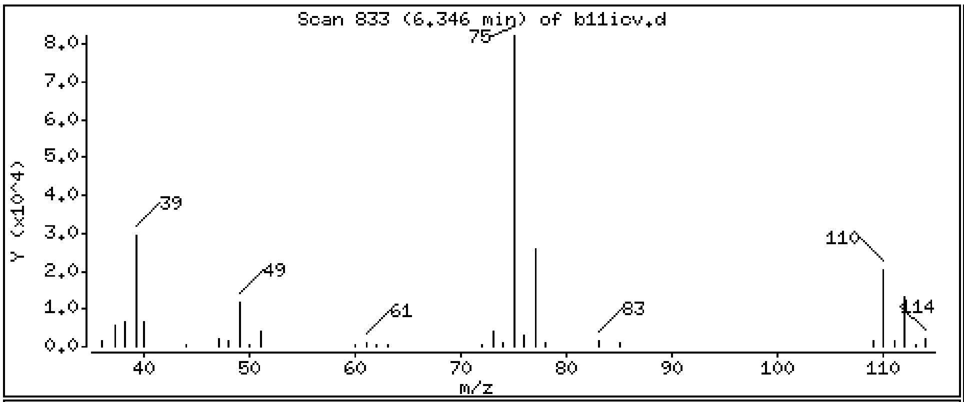
Client ID: 8260-ICV Instrument: 50mvcb.i

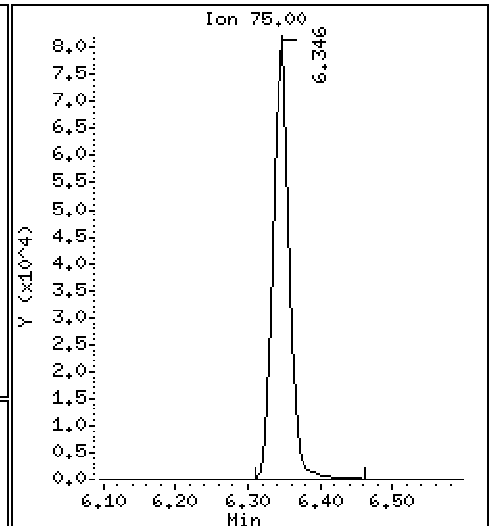
Sample Info: 8260-ICV,335770:0

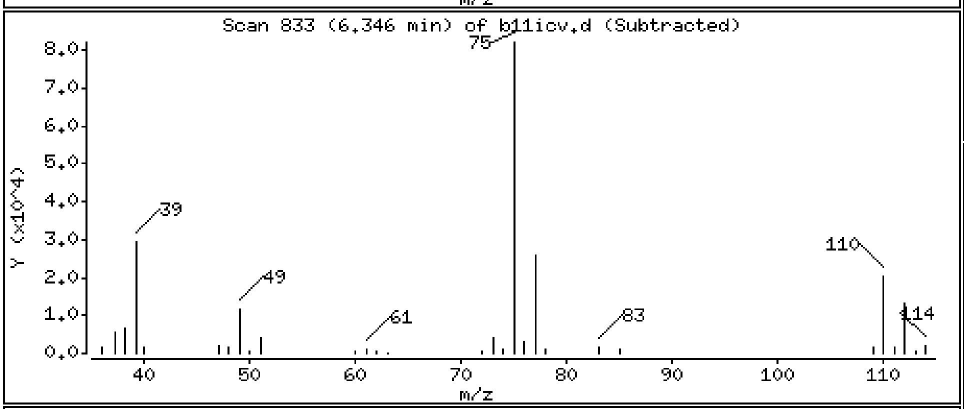
Purge Volume: 5.0 Operator: DAP

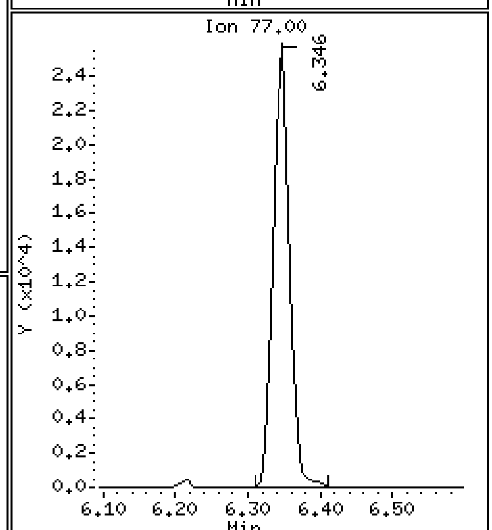
Column phase: DB-624 Column diameter: 0.18

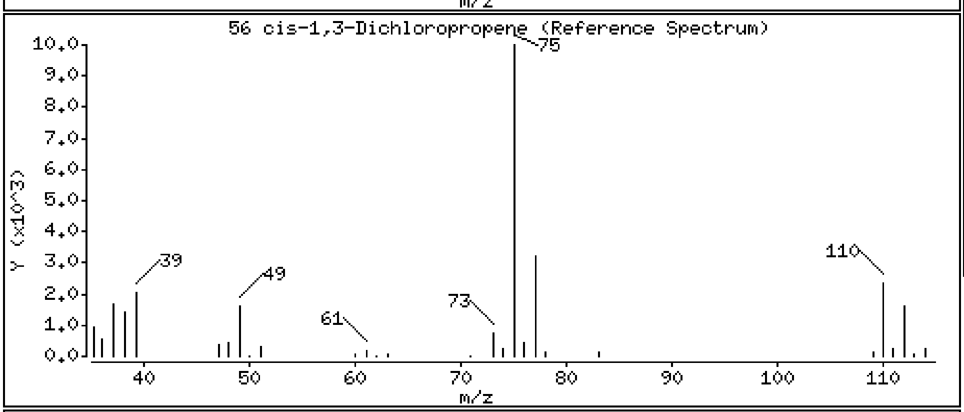
56 cis-1,3-Dichloropropene Concentration: 46.3 ppb Review Code:

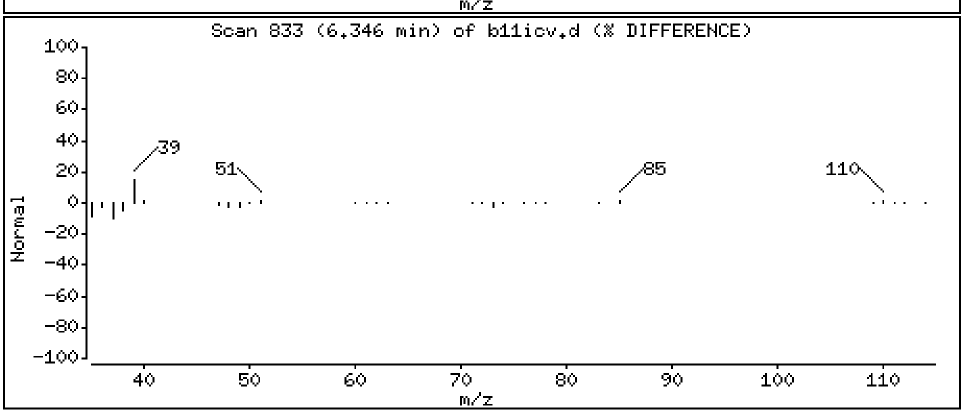












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

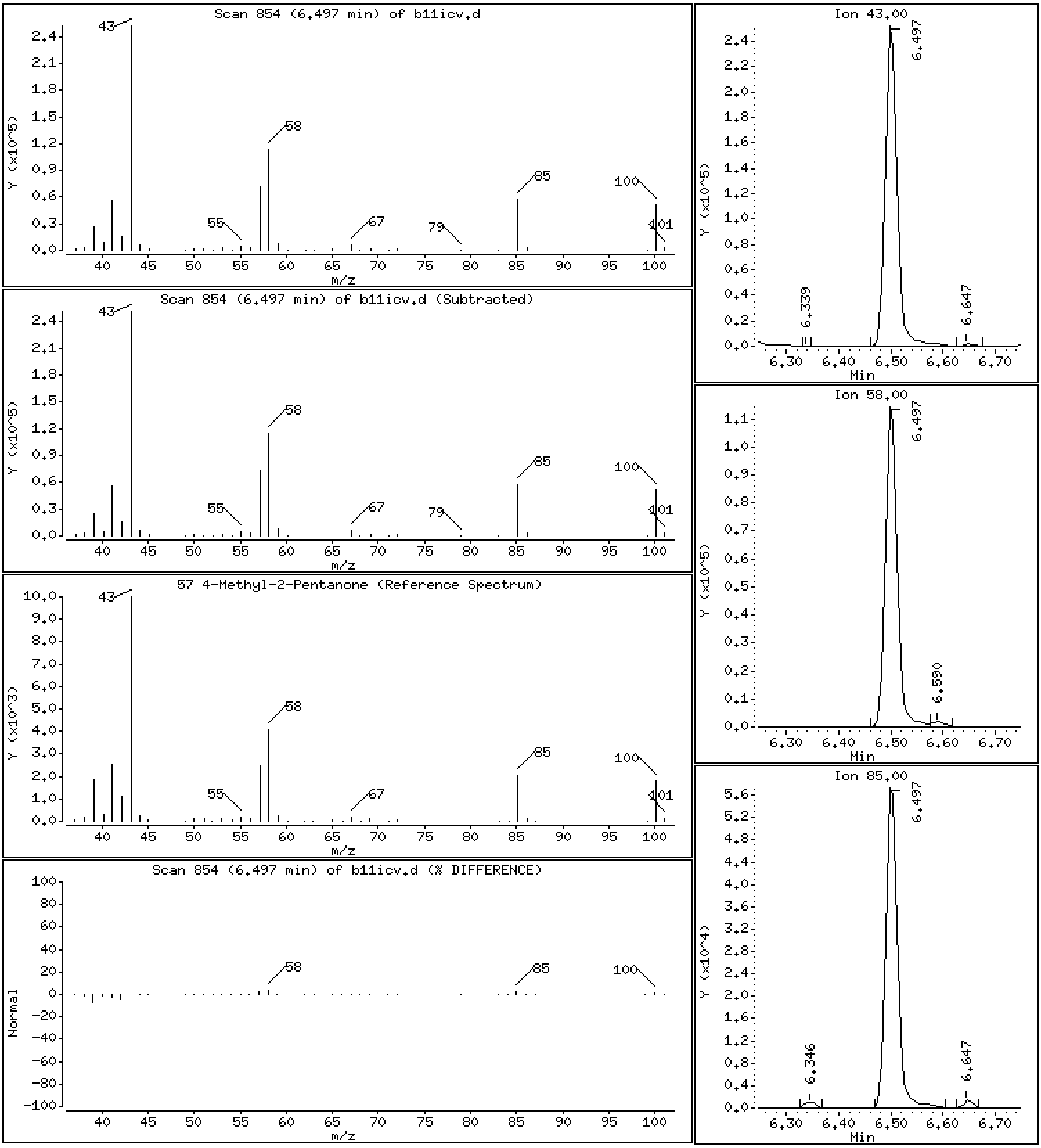
Column phase: DB-624

Column diameter: 0.18

57 4-Methyl-2-Pentanone

Concentration: 249 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

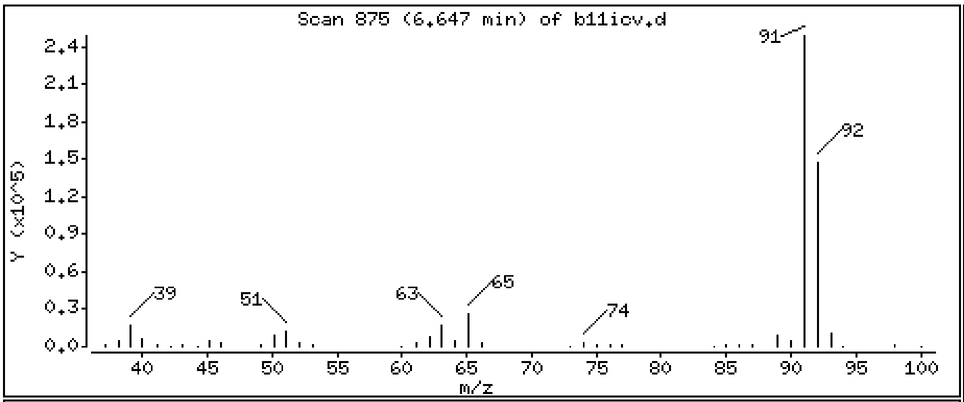
Column phase: DB-624

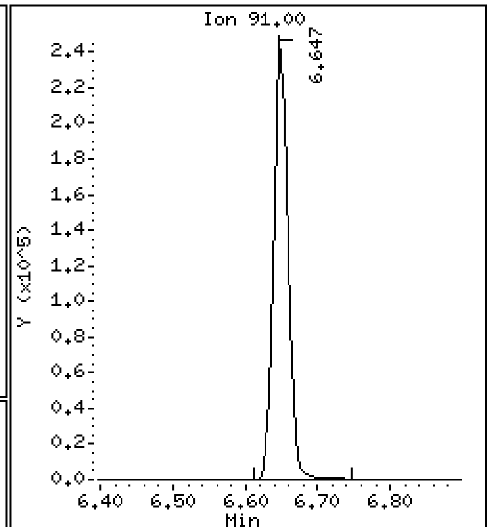
Column diameter: 0.18

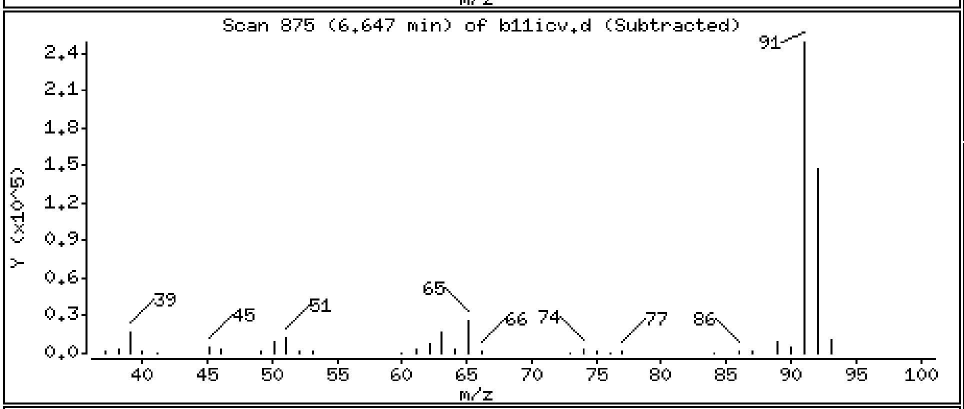
59 Toluene

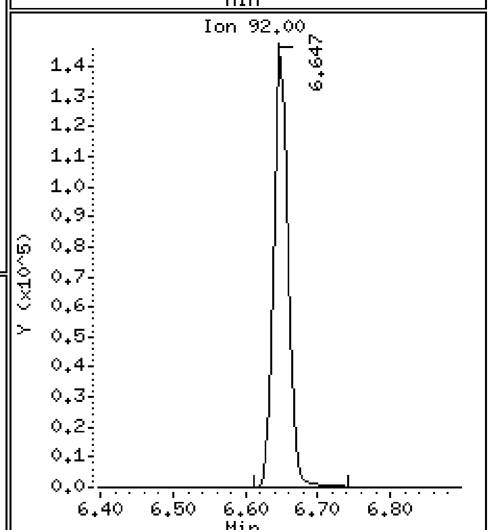
Concentration: 45.5 ppb

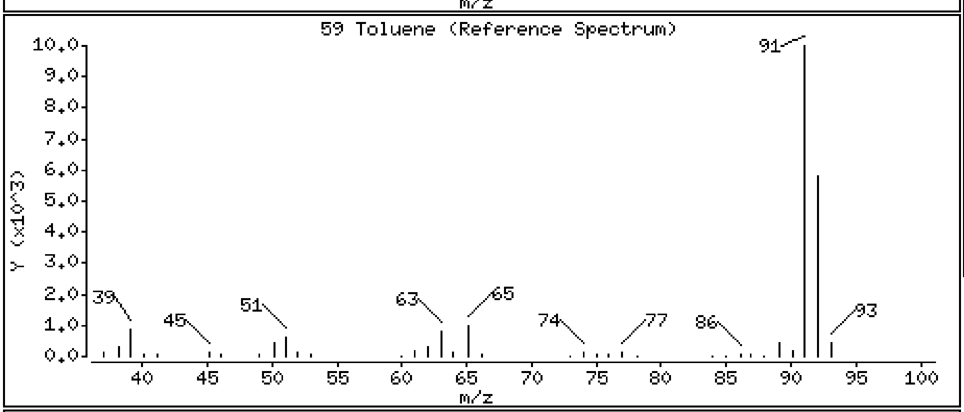
Review Code:

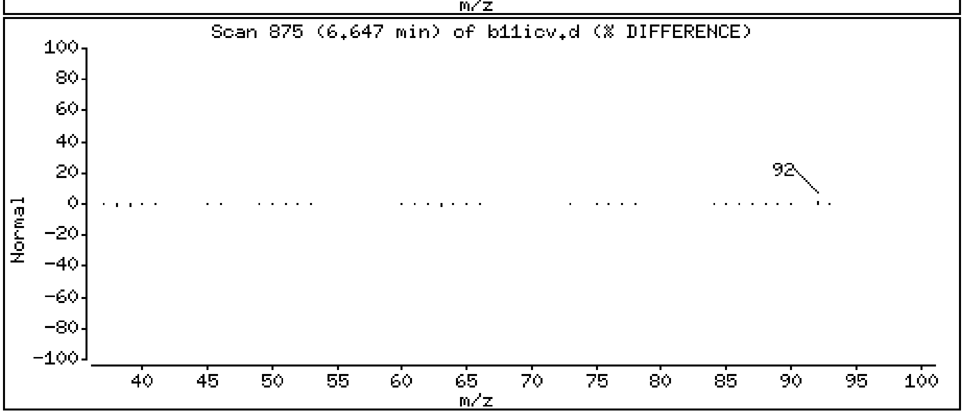












Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

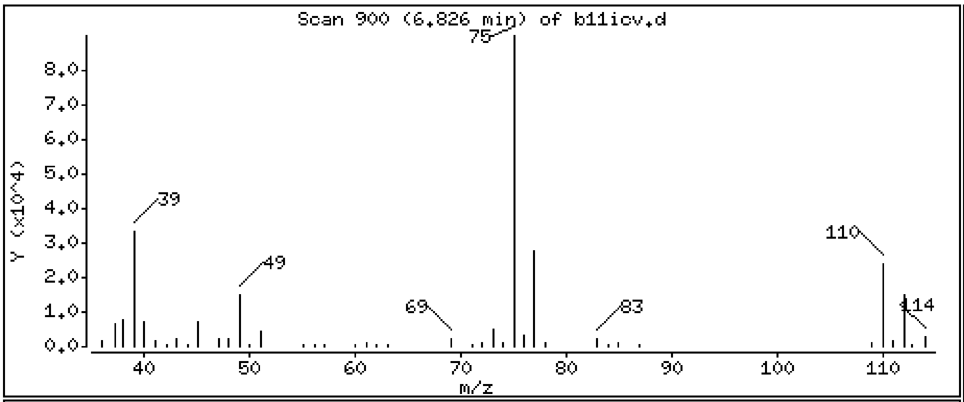
Column phase: DB-624

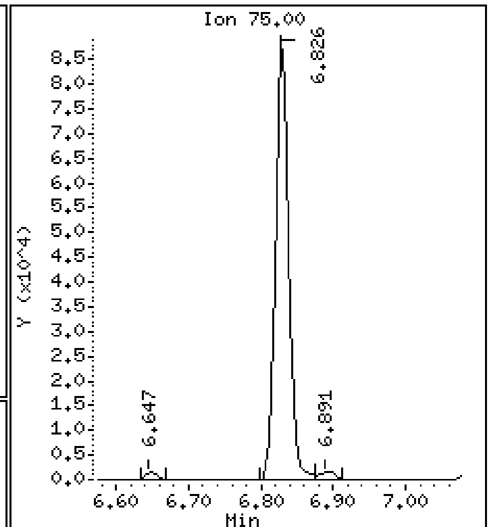
Column diameter: 0.18

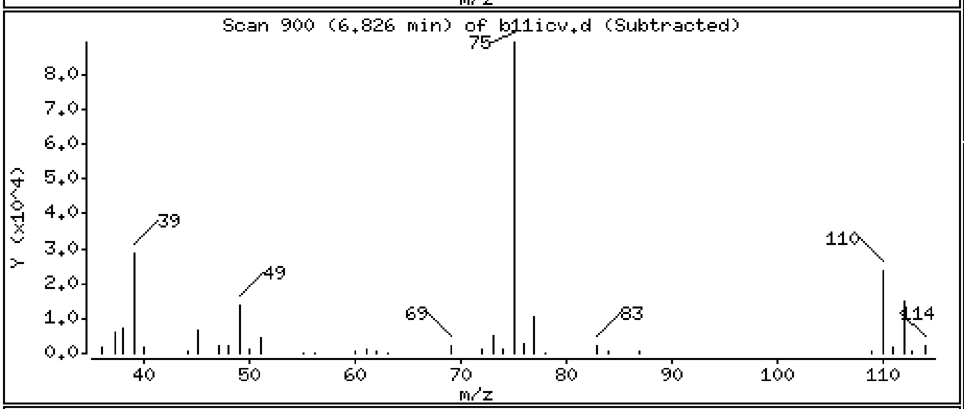
60 trans-1,3-Dichloropropene

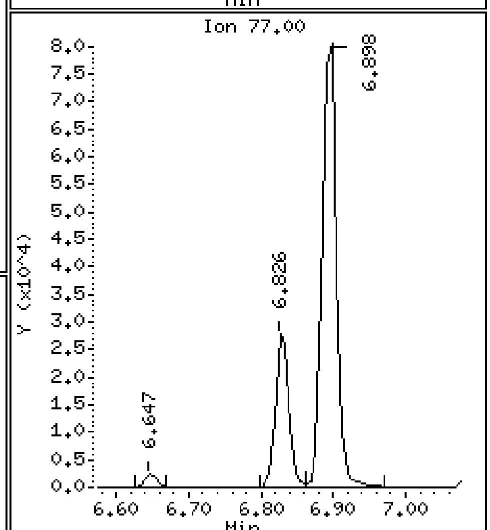
Concentration: 47.5 ppb

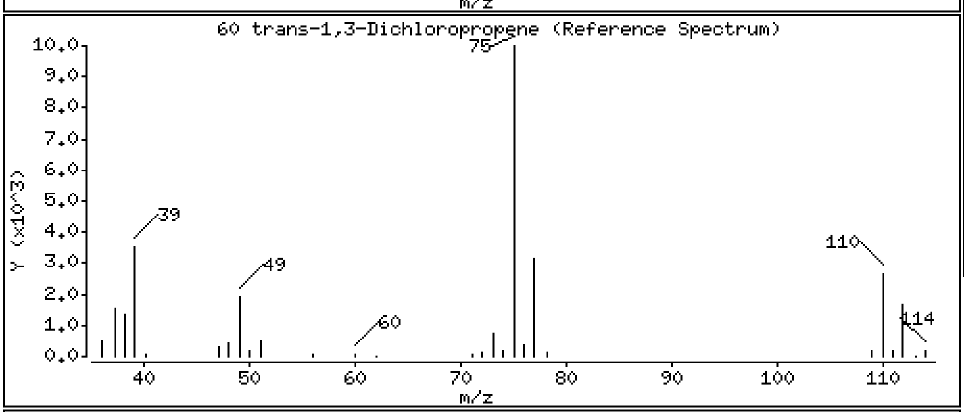
Review Code:

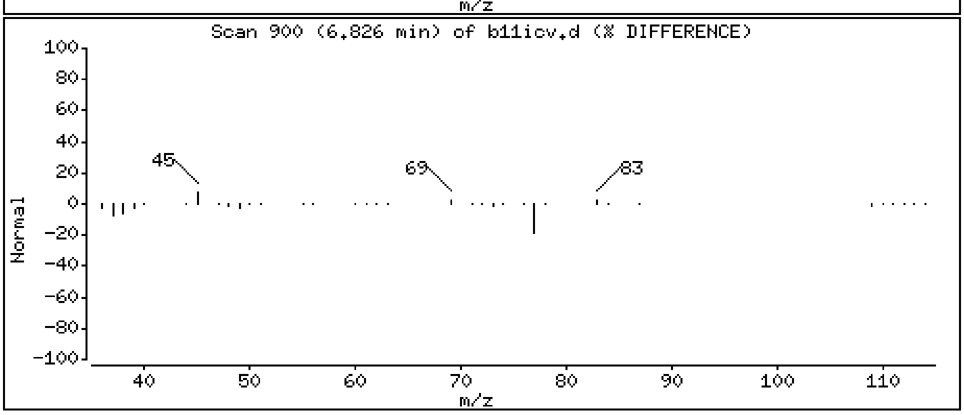












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

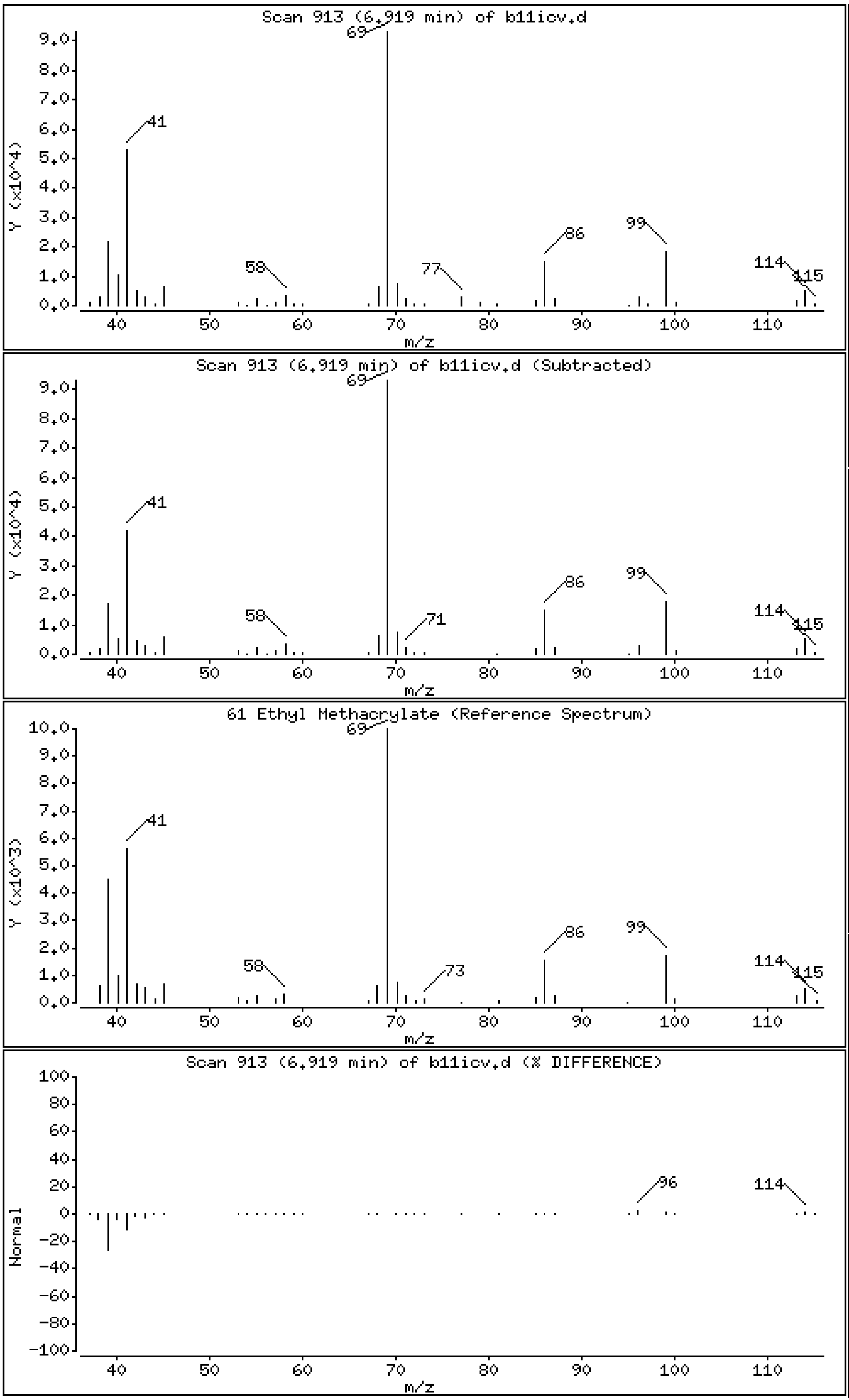
Column phase: DB-624

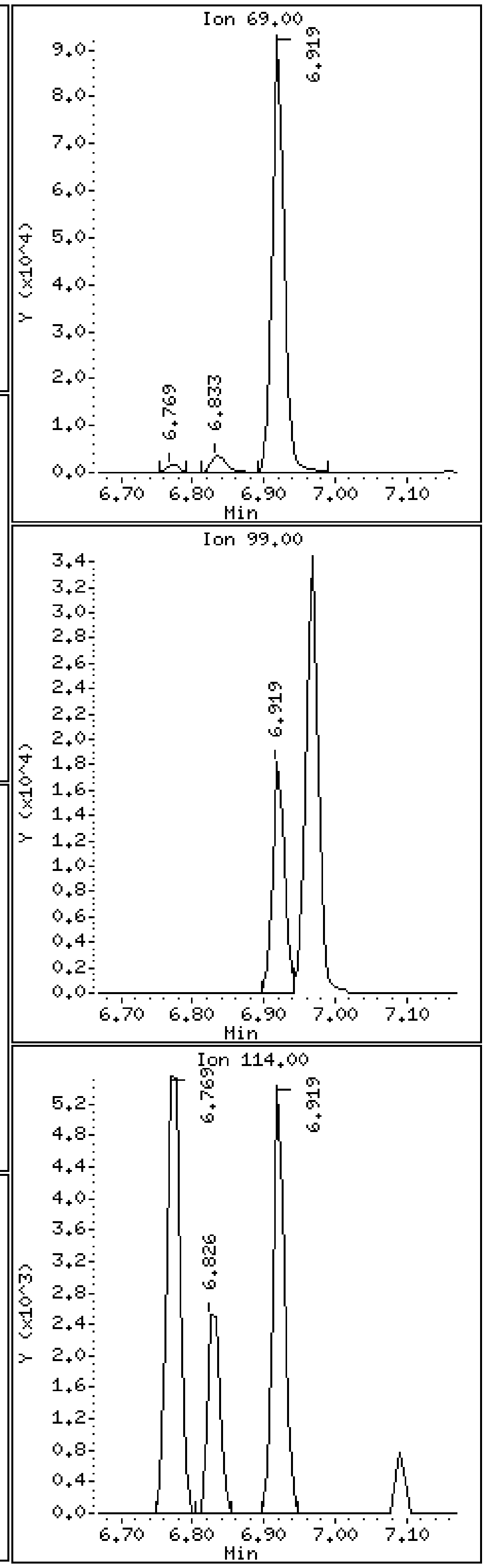
Column diameter: 0.18

61 Ethyl Methacrylate

Concentration: 49.4 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

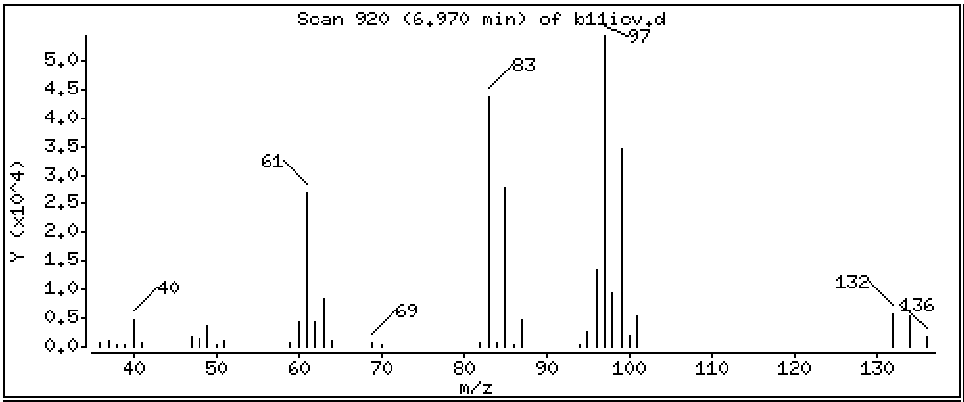
Column phase: DB-624

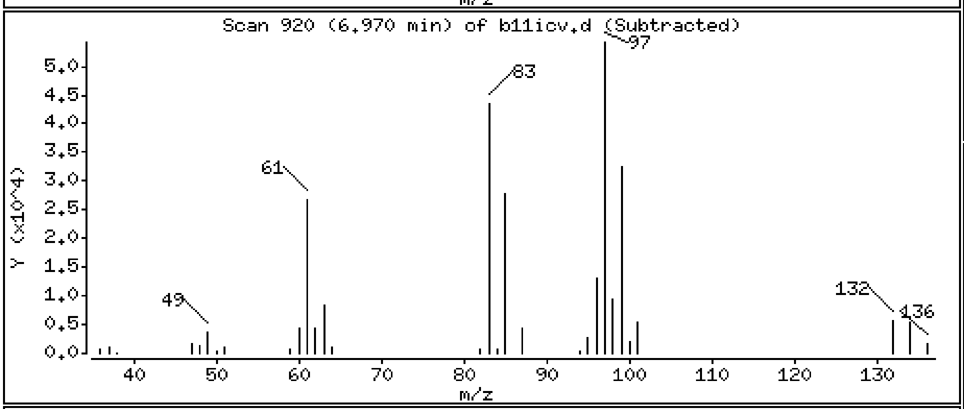
Column diameter: 0.18

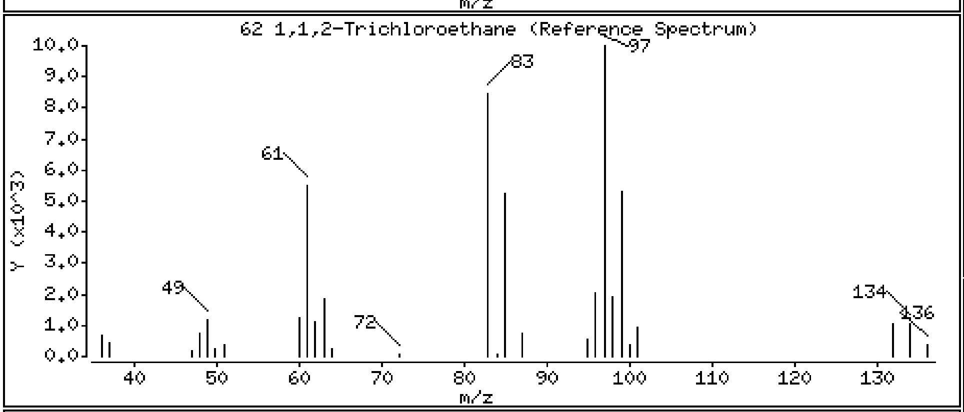
62 1,1,2-Trichloroethane

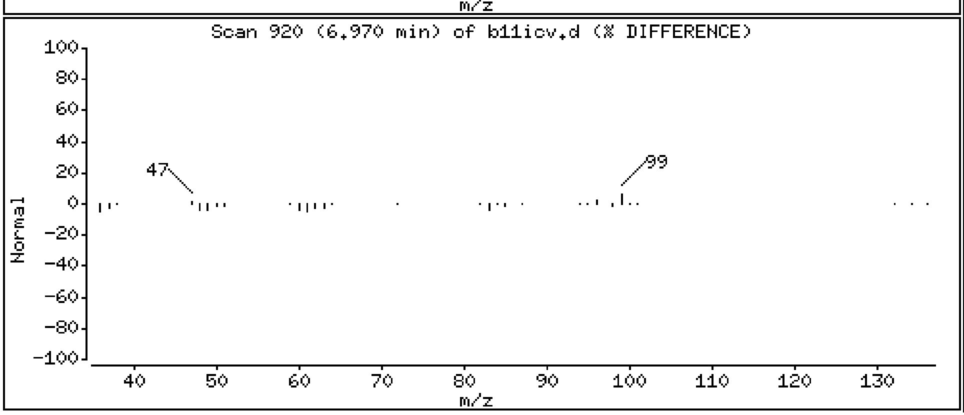
Concentration: 43.7 ppb

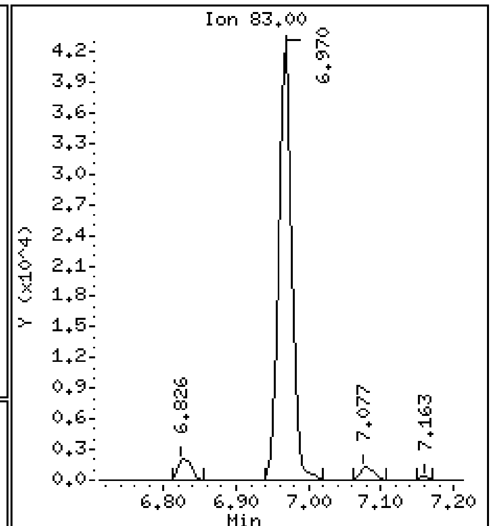
Review Code:

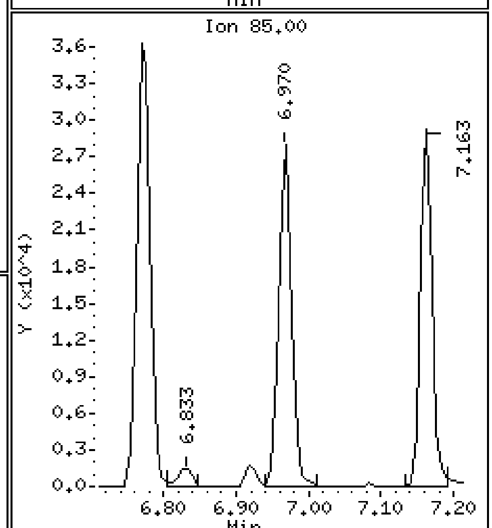


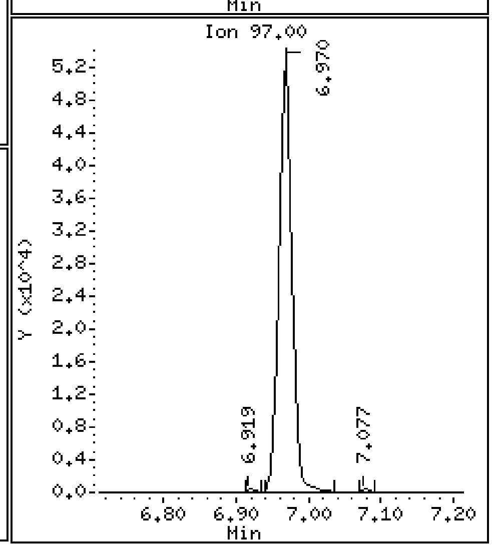












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

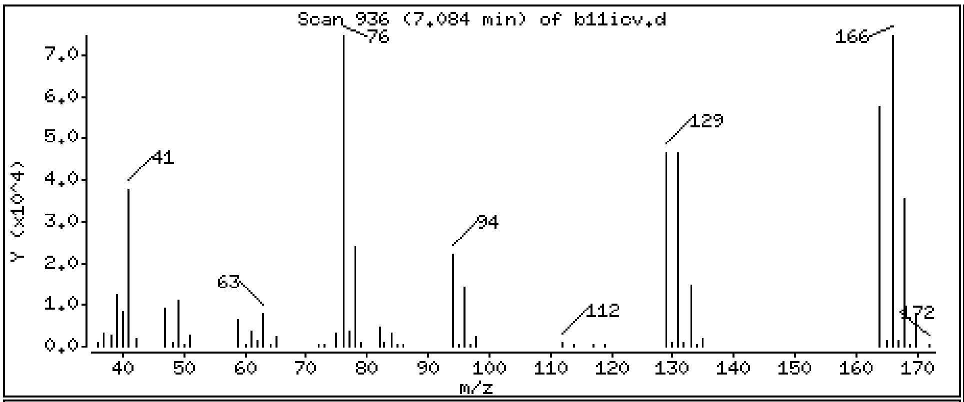
Column phase: DB-624

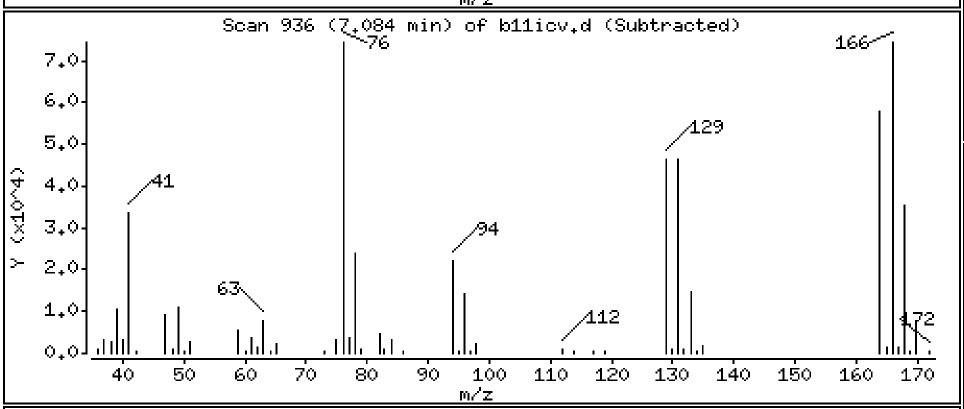
Column diameter: 0.18

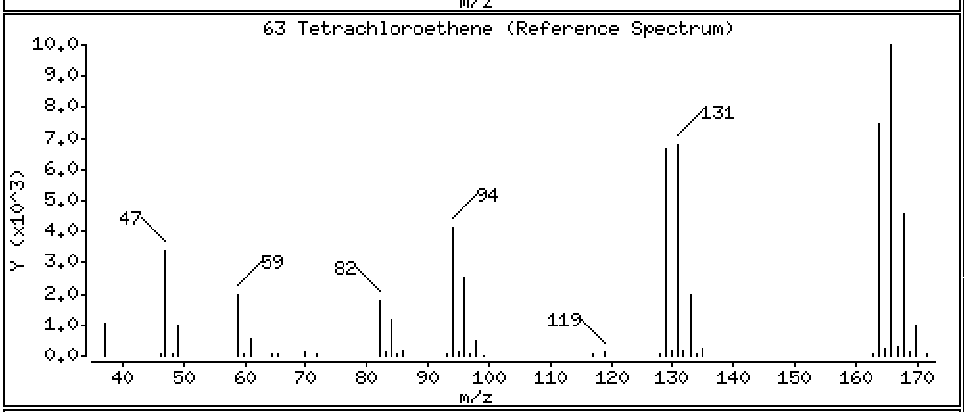
63 Tetrachloroethene

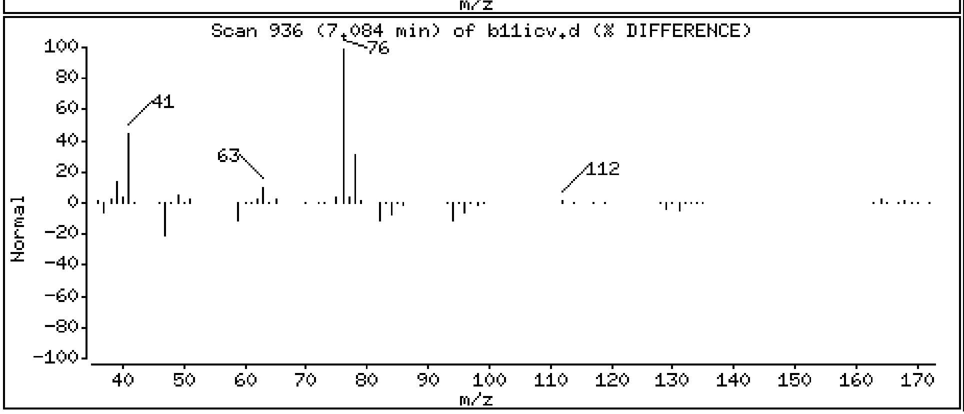
Concentration: 45.4 ppb

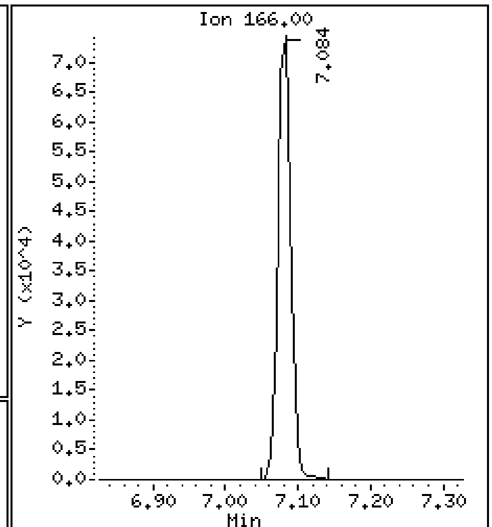
Review Code:

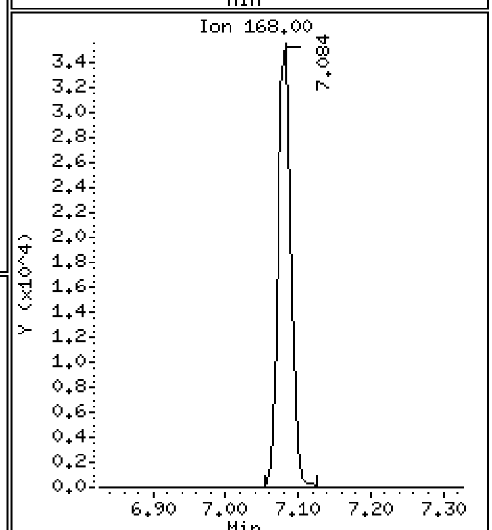


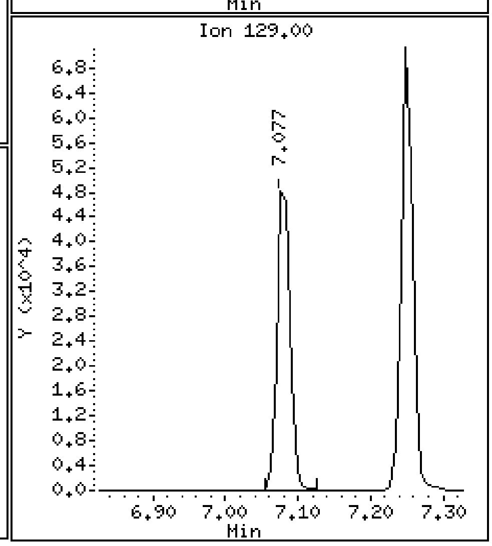












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

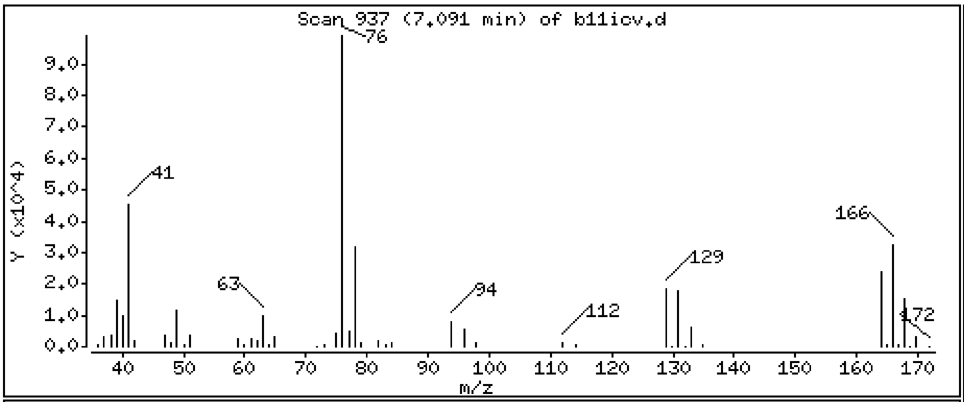
Column phase: DB-624

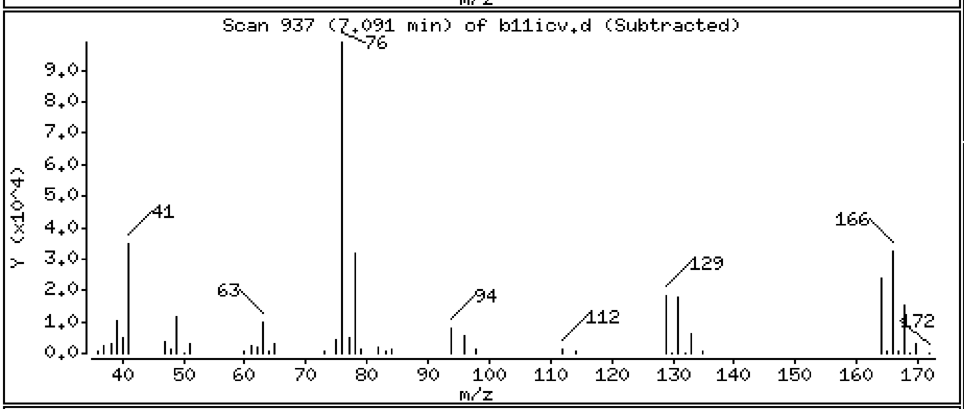
Column diameter: 0.18

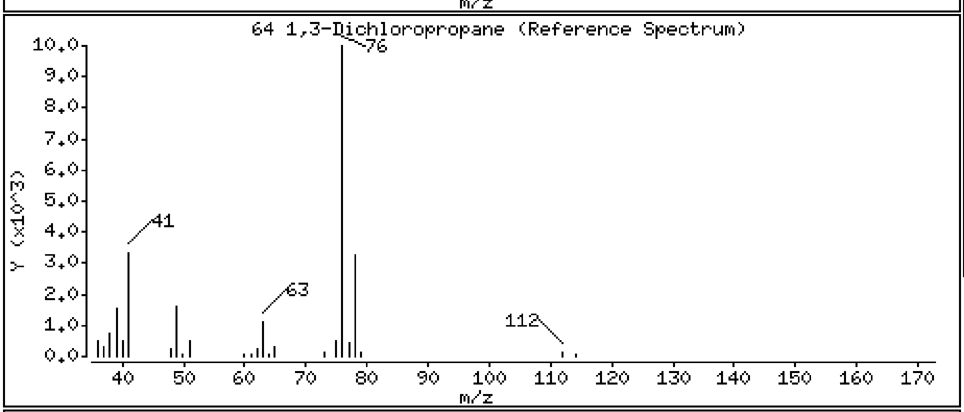
64 1,3-Dichloropropane

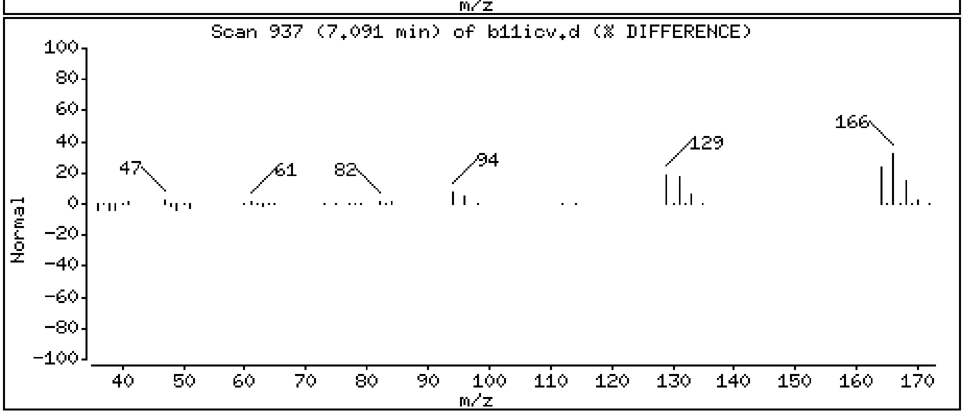
Concentration: 43.7 ppb

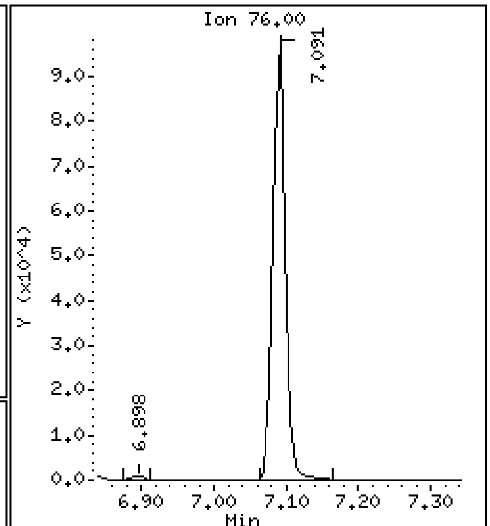
Review Code:

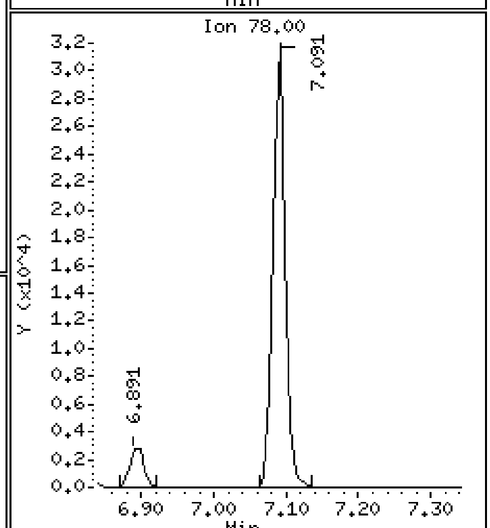












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

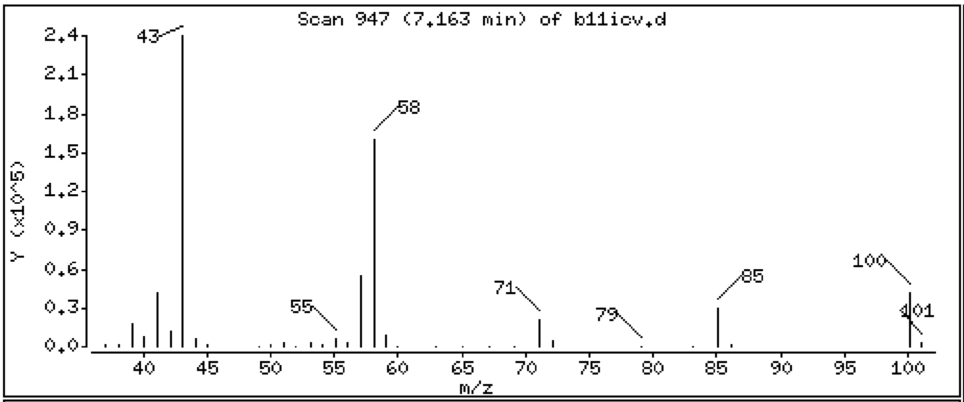
Column phase: DB-624

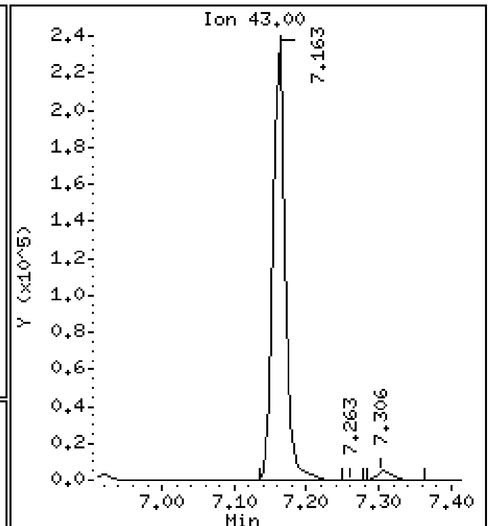
Column diameter: 0.18

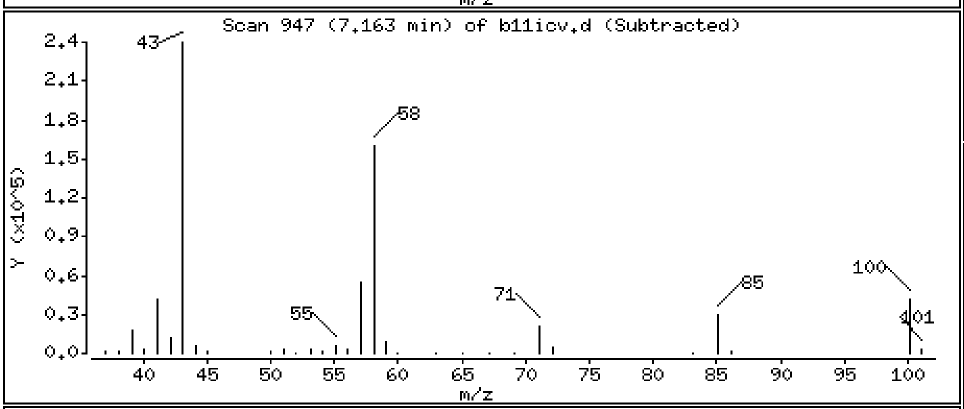
65 2-Hexanone

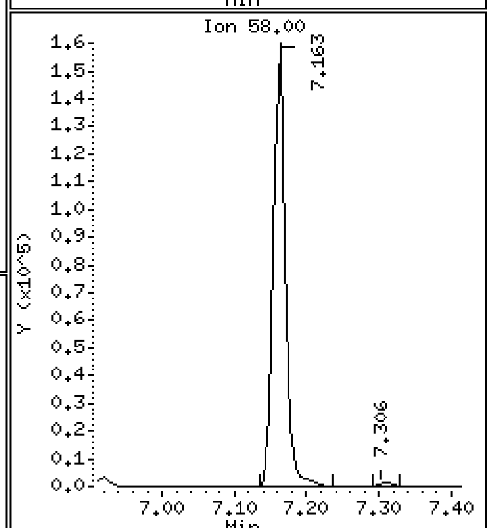
Concentration: 240 ppb

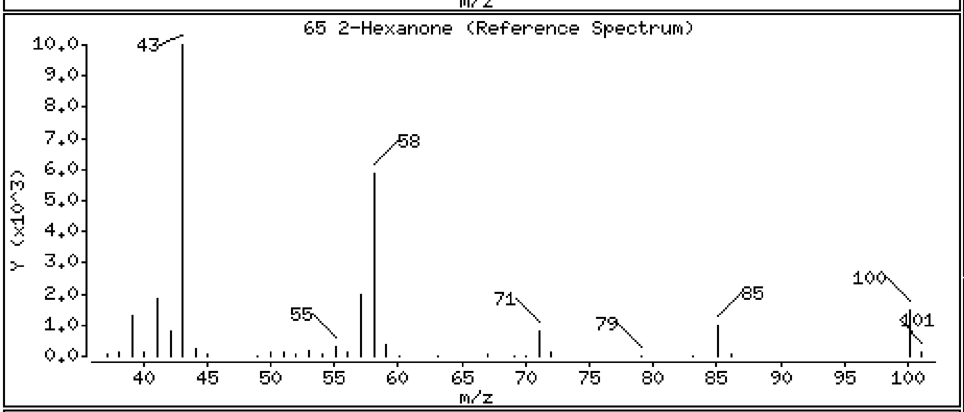
Review Code:

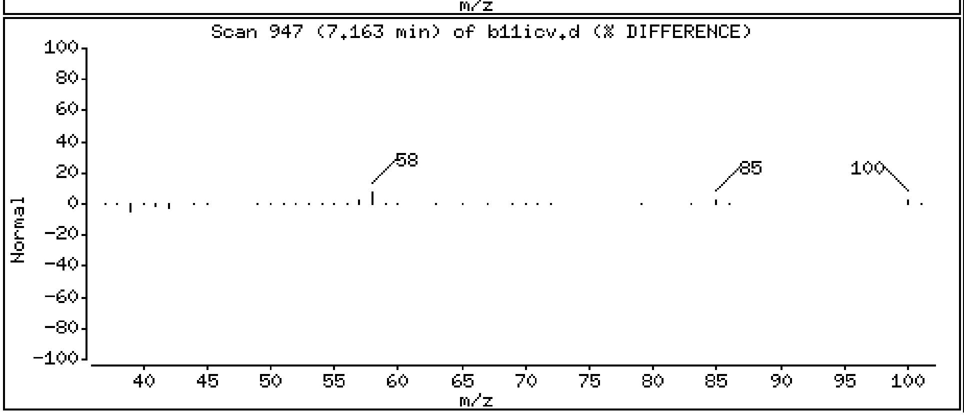


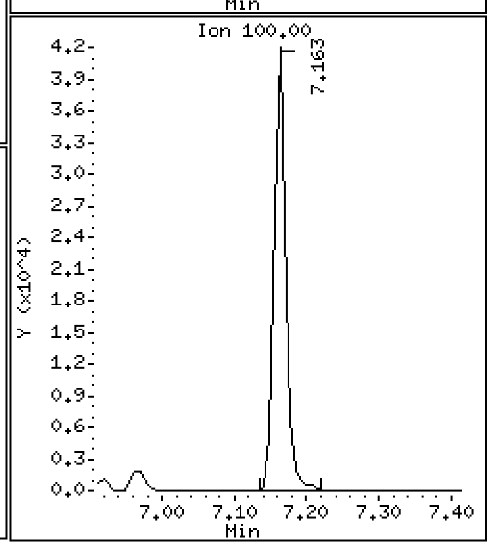












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

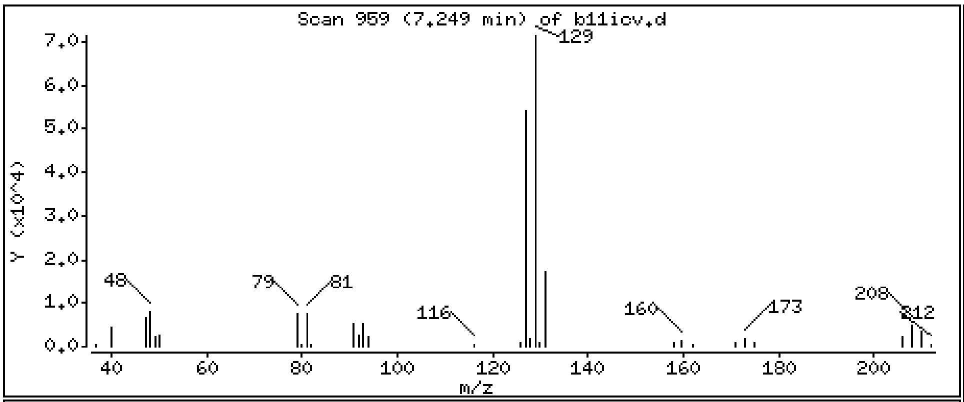
Column phase: DB-624

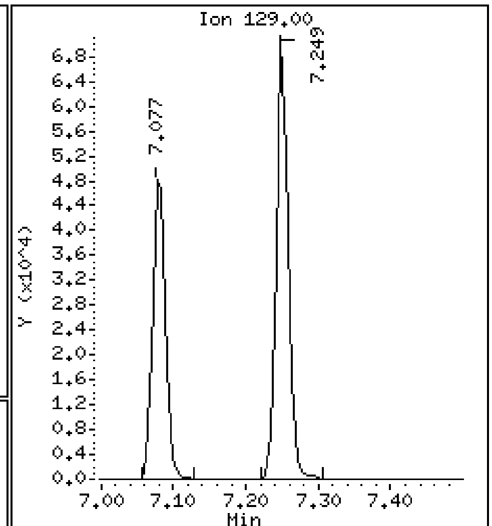
Column diameter: 0.18

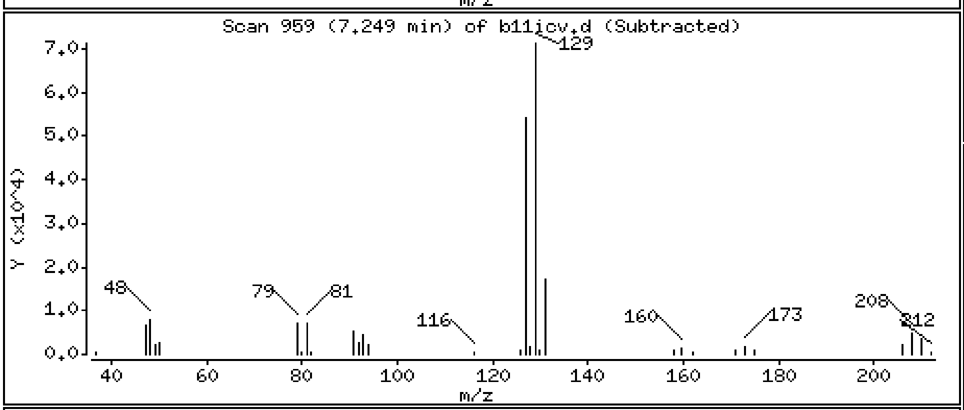
66 Dibromochloromethane

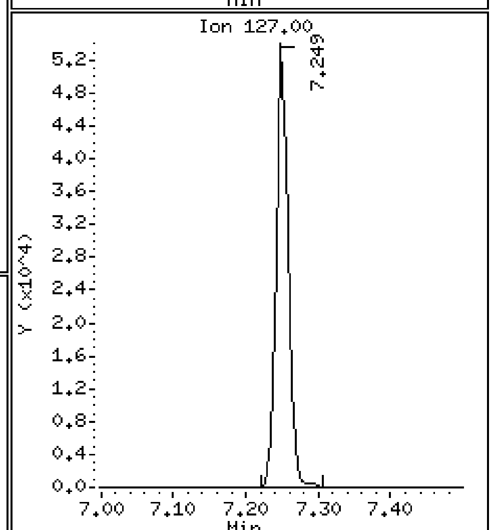
Concentration: 45.7 ppb

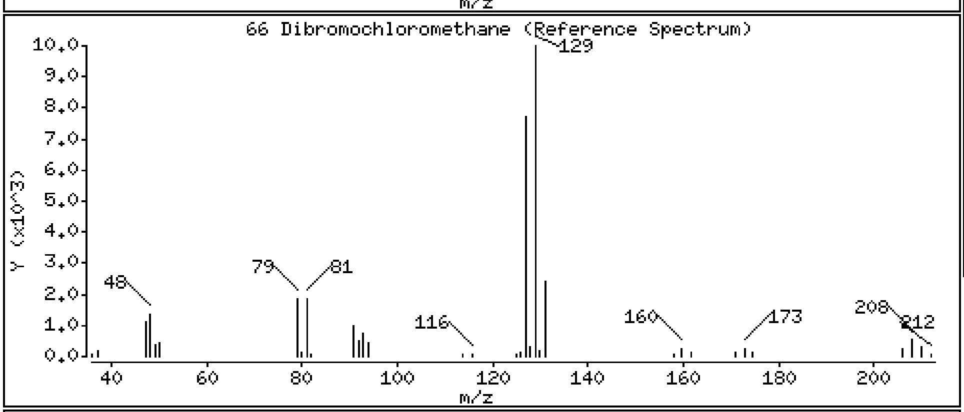
Review Code:

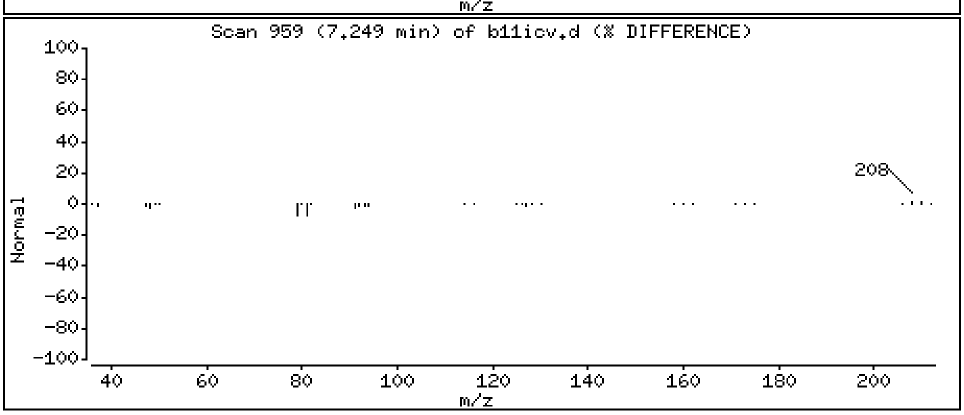












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

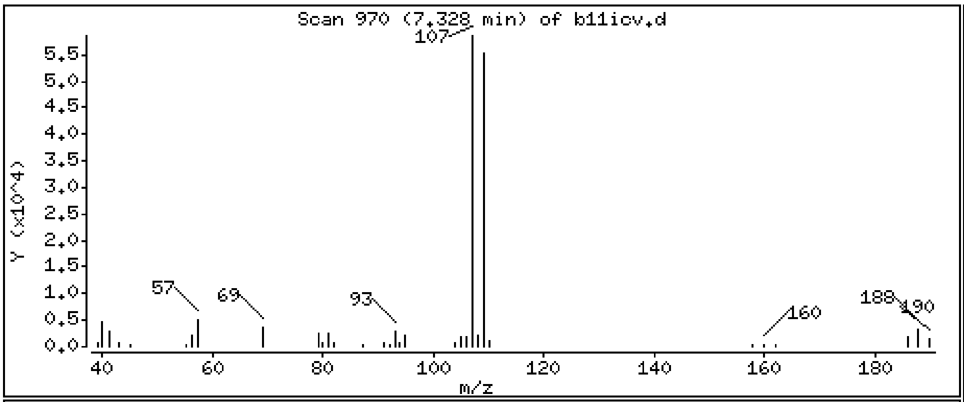
Column phase: DB-624

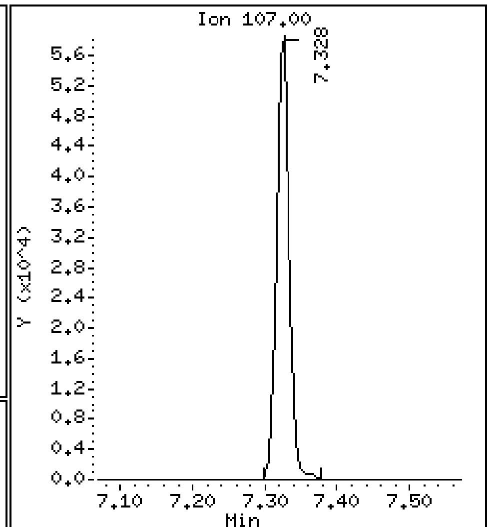
Column diameter: 0.18

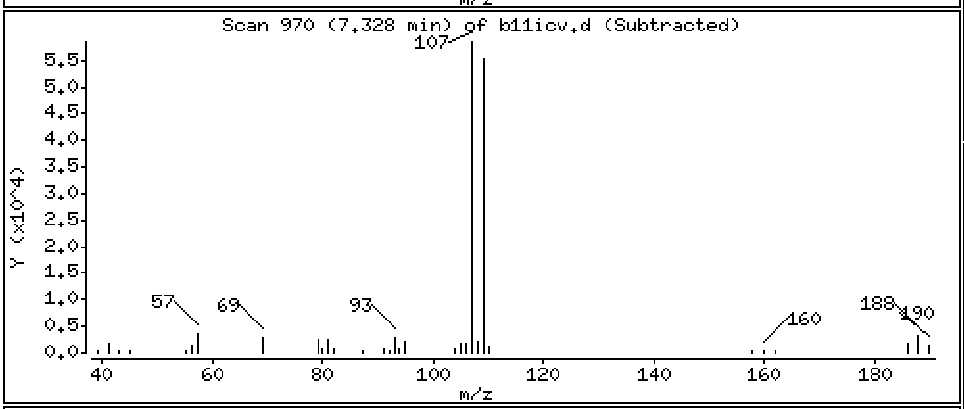
67 1,2-Dibromoethane

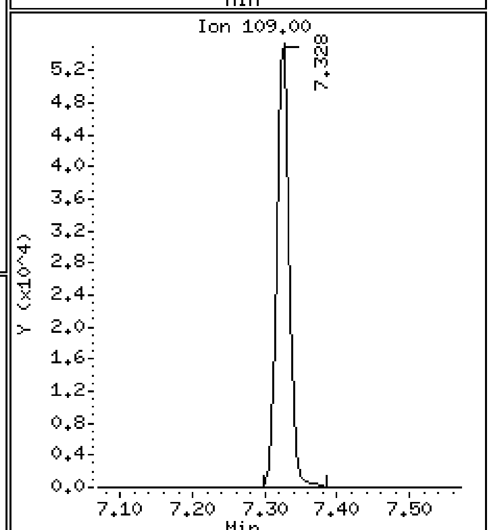
Concentration: 44.6 ppb

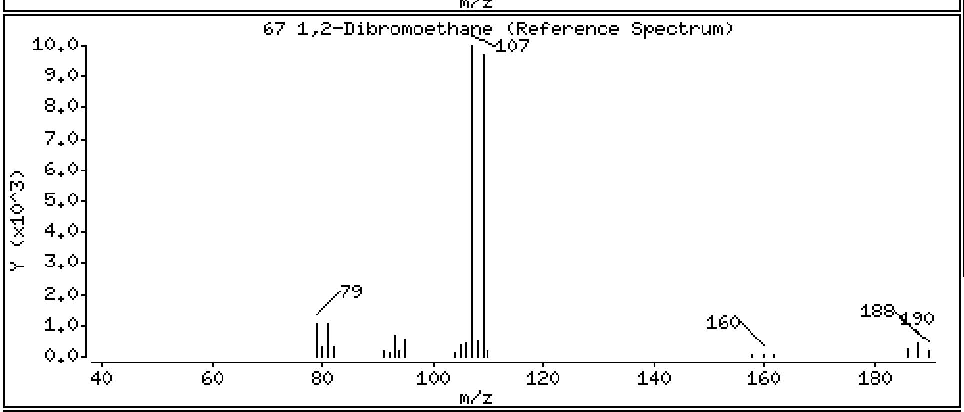
Review Code:

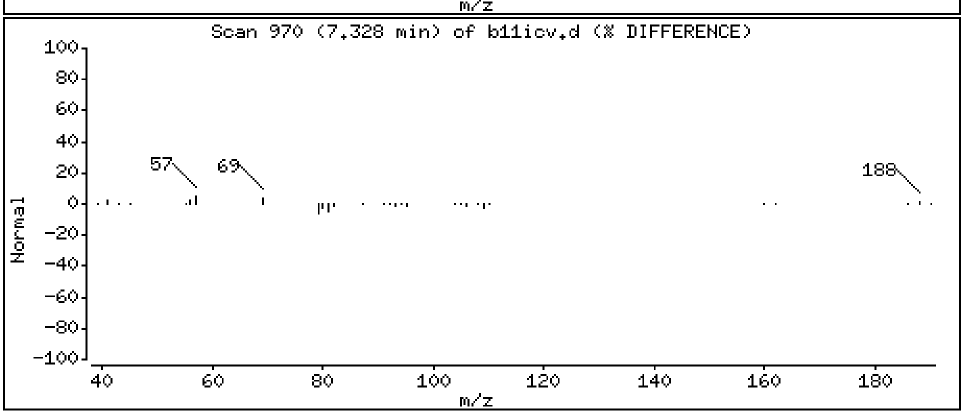












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

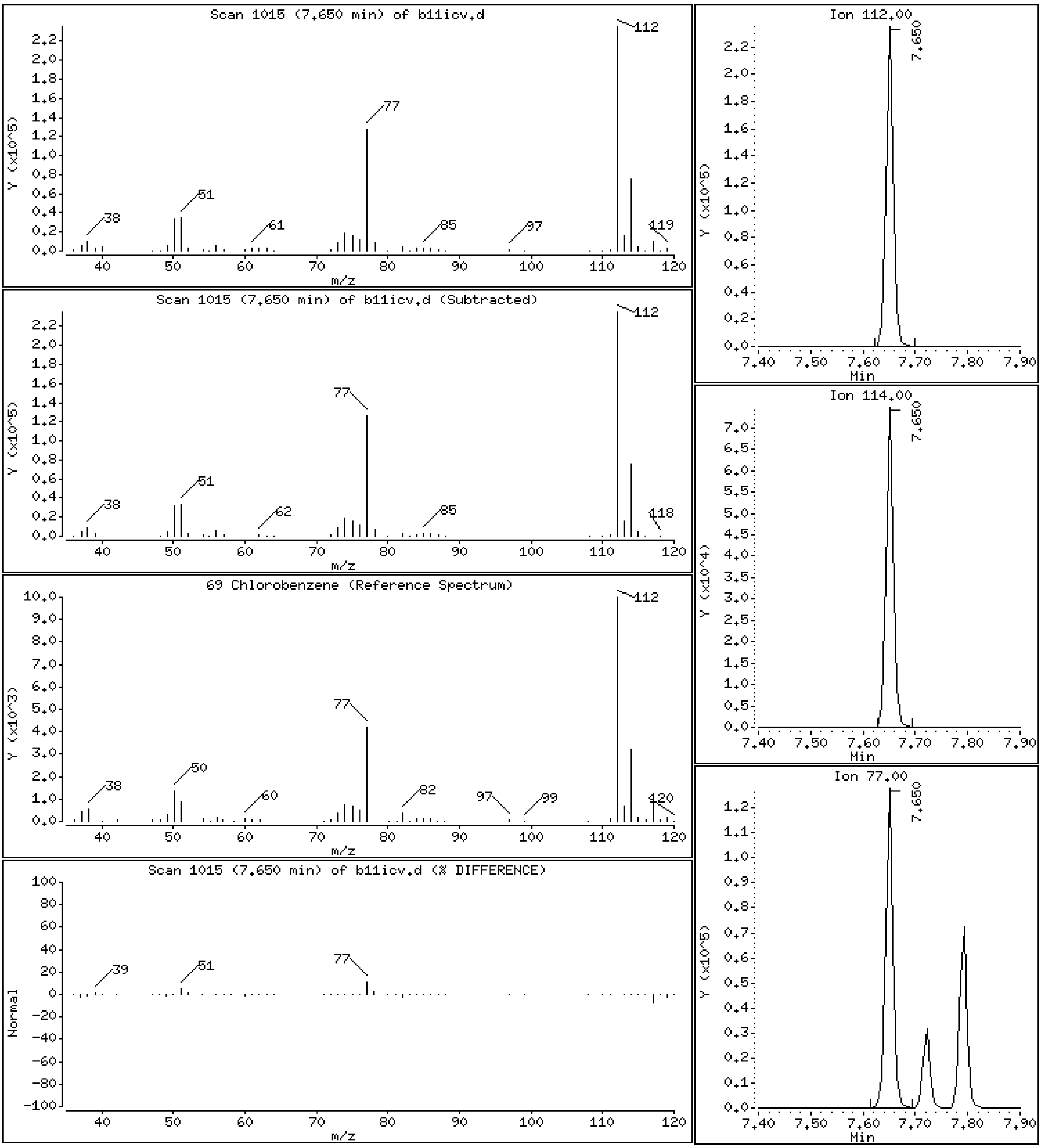
Column phase: DB-624

Column diameter: 0.18

69 Chlorobenzene

Concentration: 47.2 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

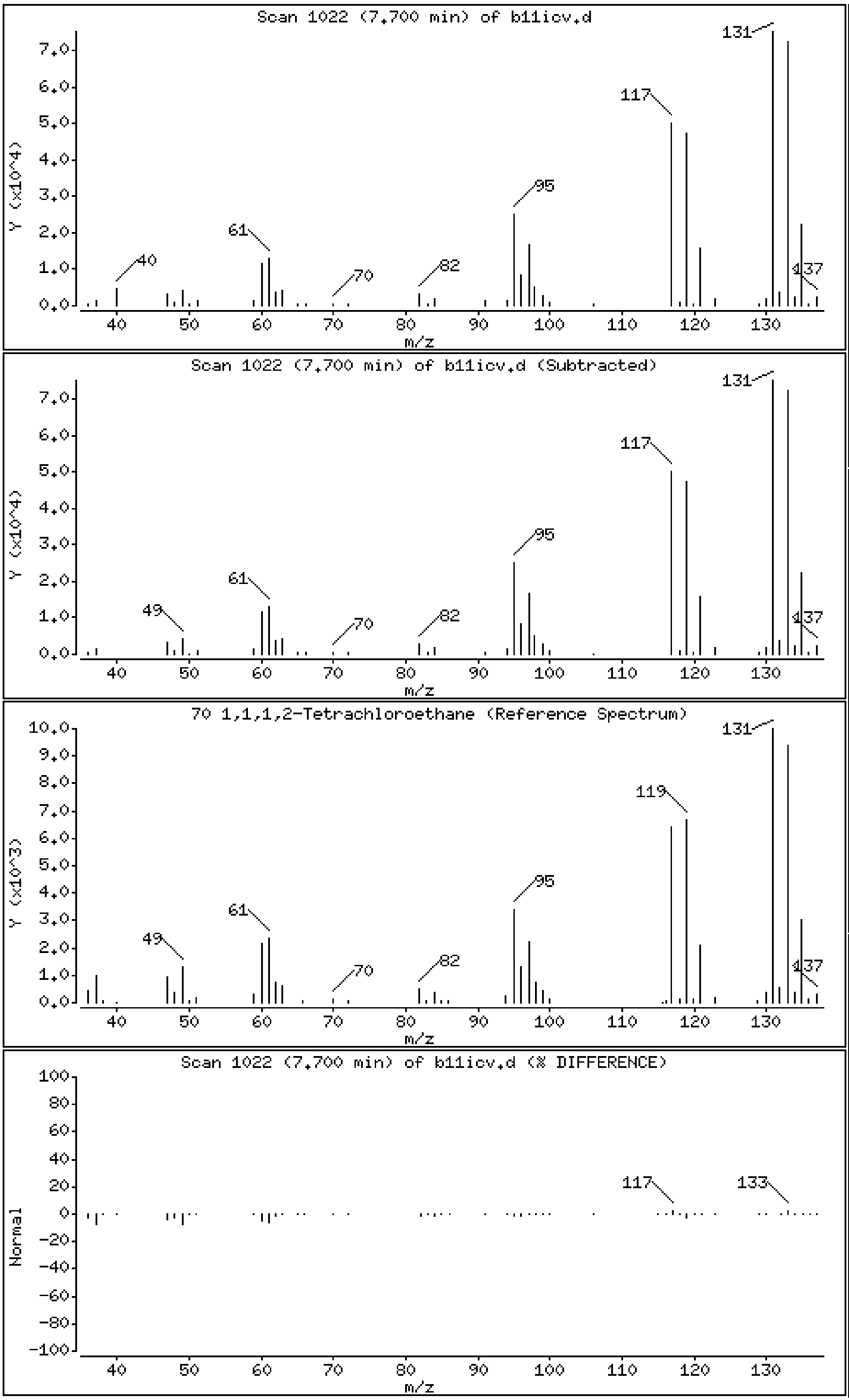
Column phase: DB-624

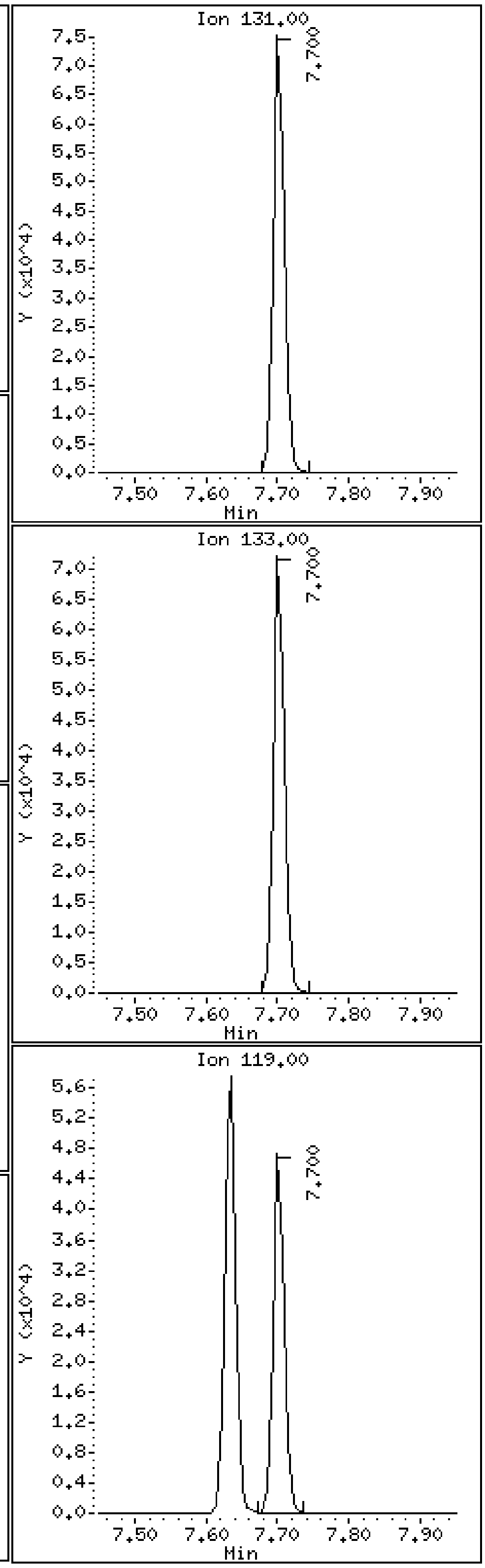
Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane

Concentration: 47.6 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

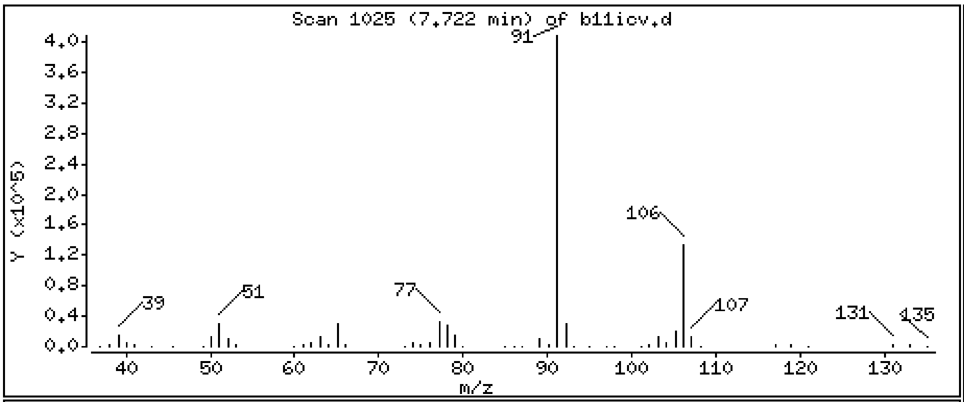
Column phase: DB-624

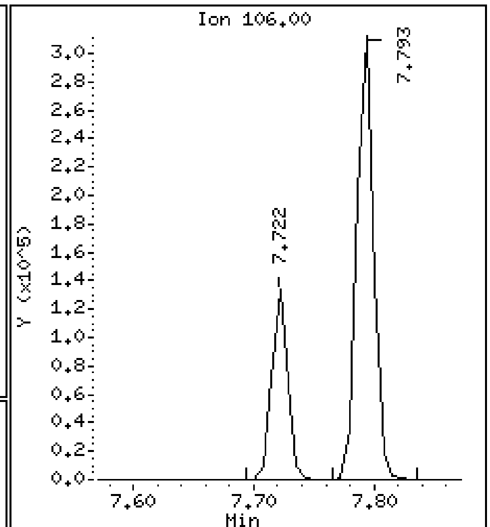
Column diameter: 0.18

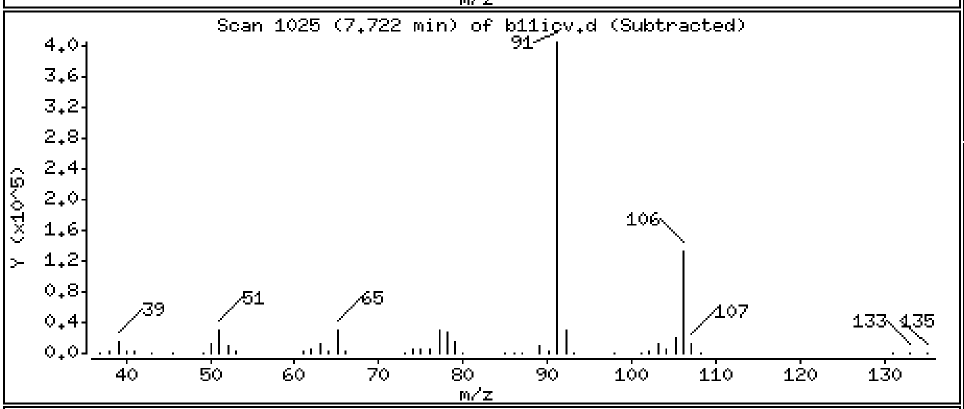
71 Ethylbenzene

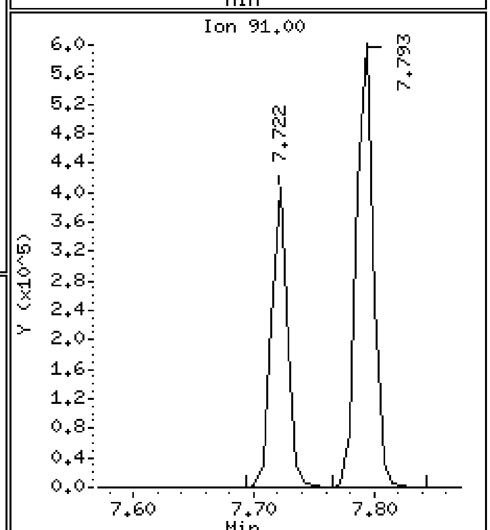
Concentration: 49.8 ppb

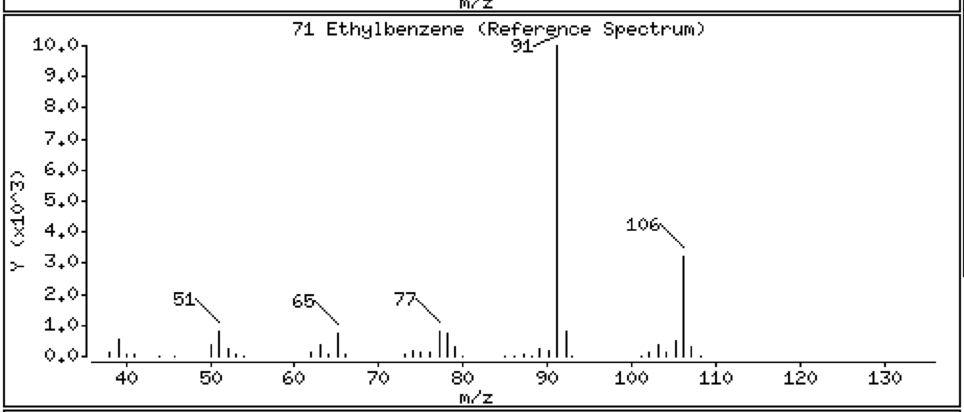
Review Code:

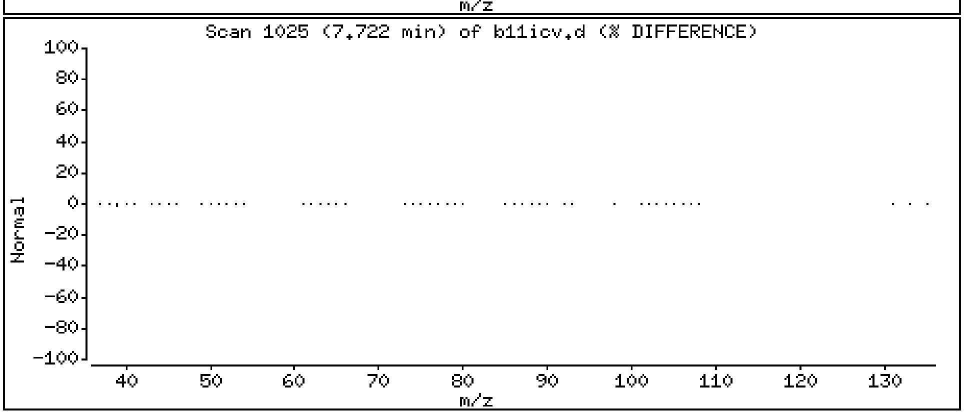












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Page 72

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

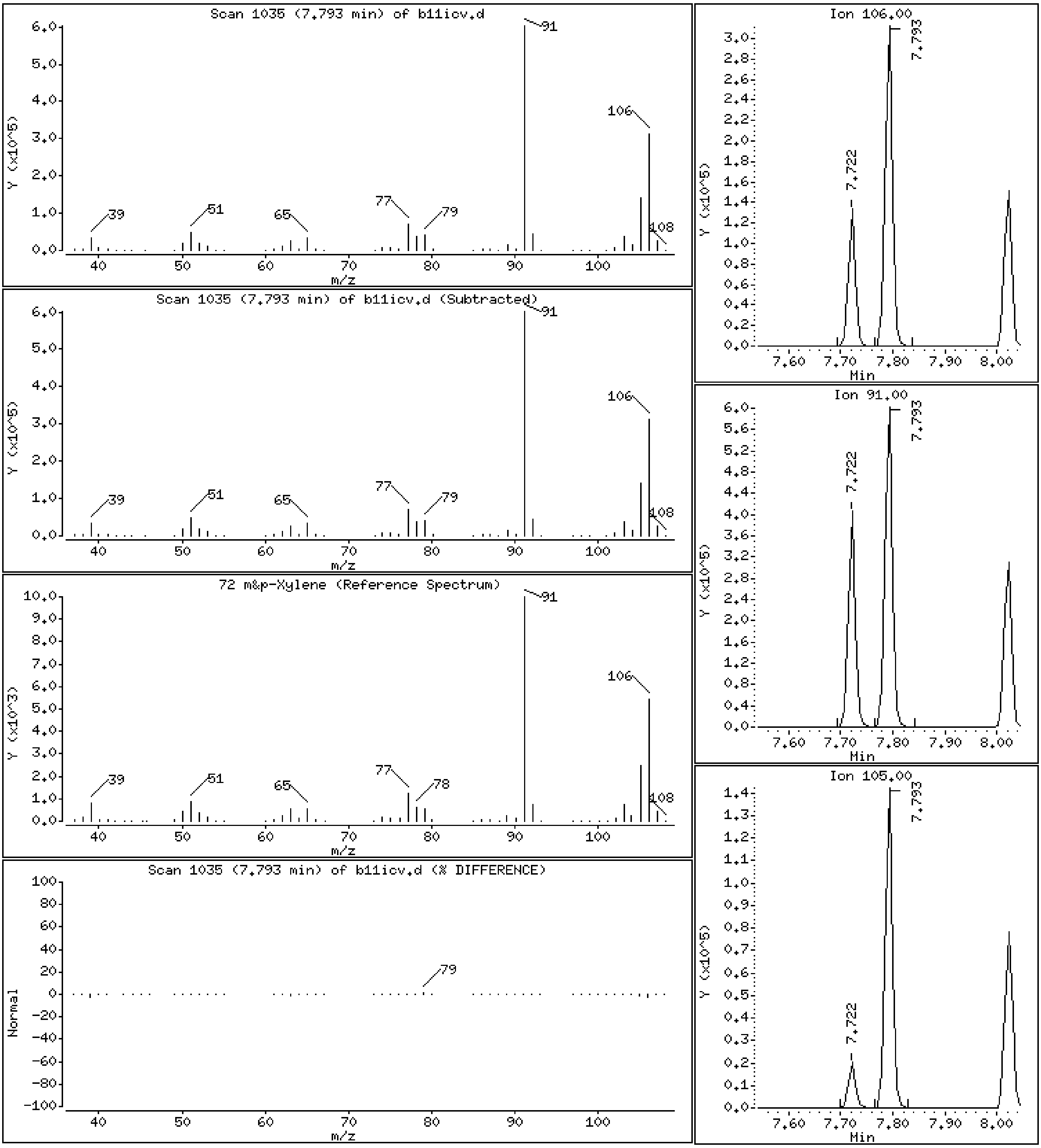
Column phase: DB-624

Column diameter: 0.18

72 m&p-Xylene

Concentration: 94.8 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

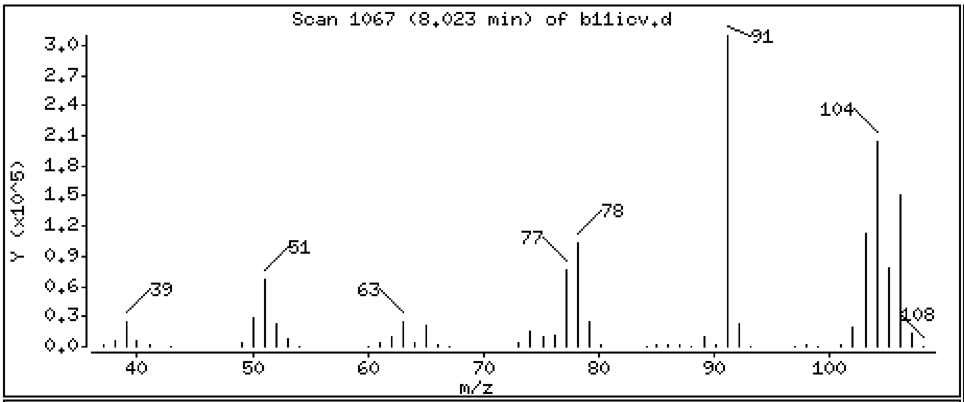
Column phase: DB-624

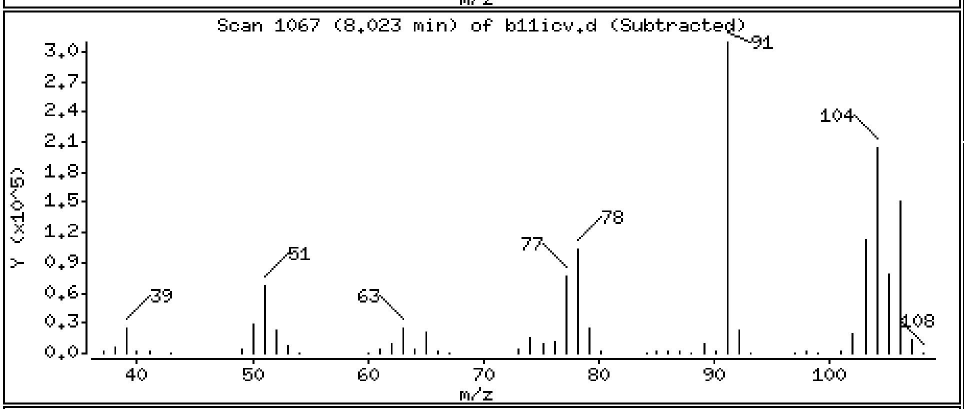
Column diameter: 0.18

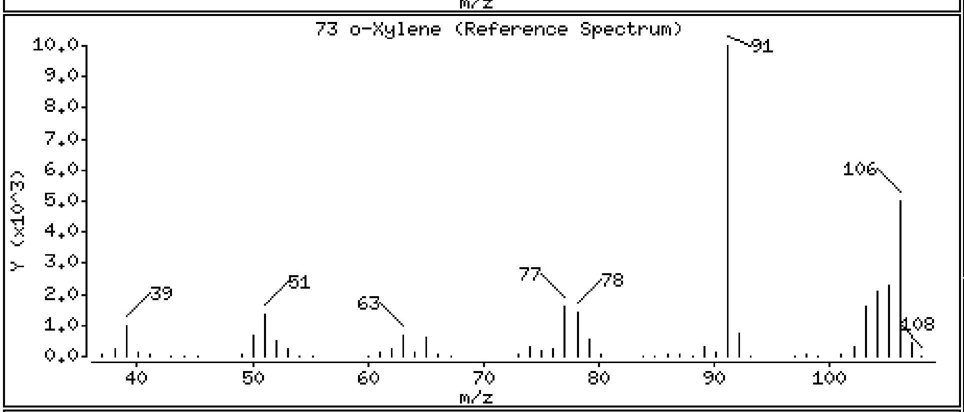
73 o-Xylene

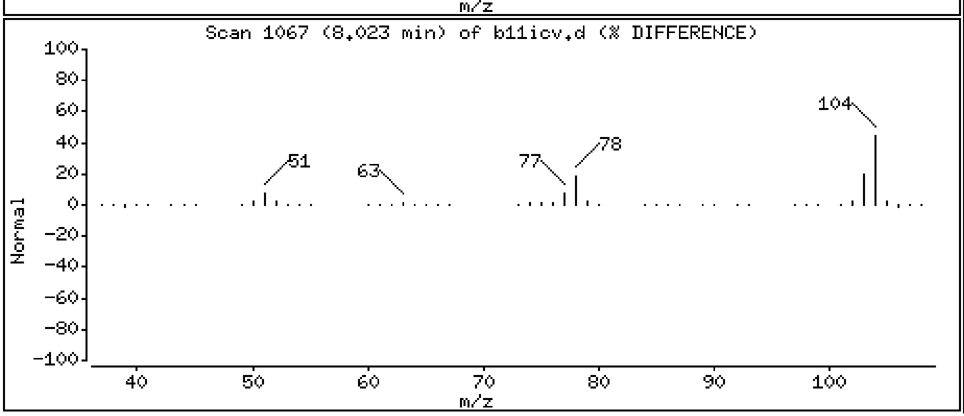
Concentration: 47.4 ppb

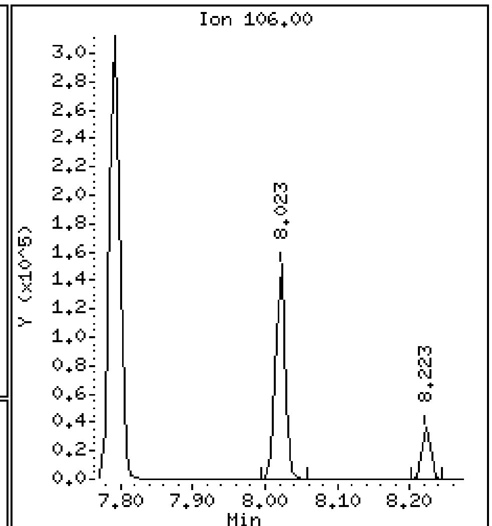
Review Code:

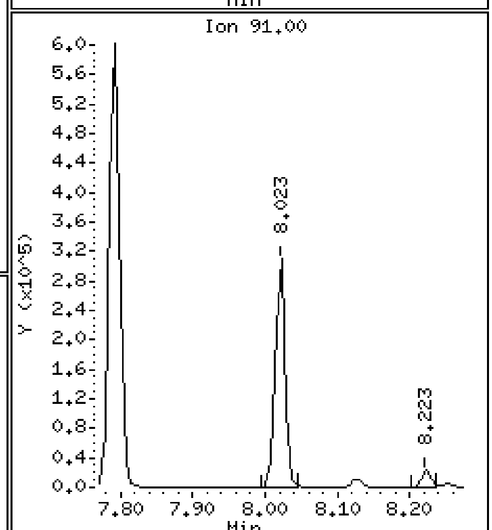


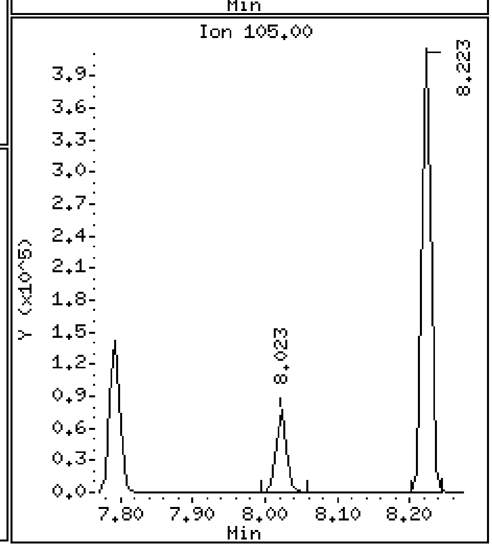












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

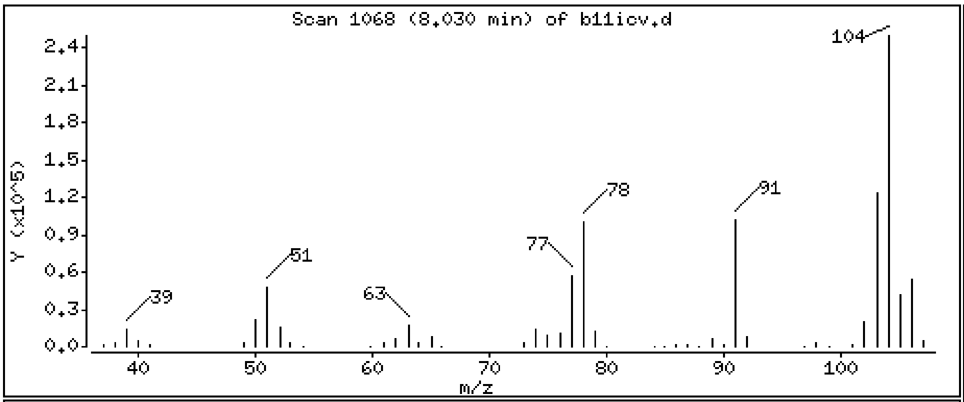
Column phase: DB-624

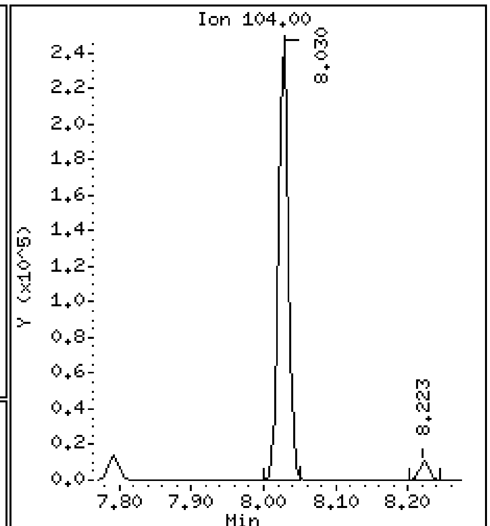
Column diameter: 0.18

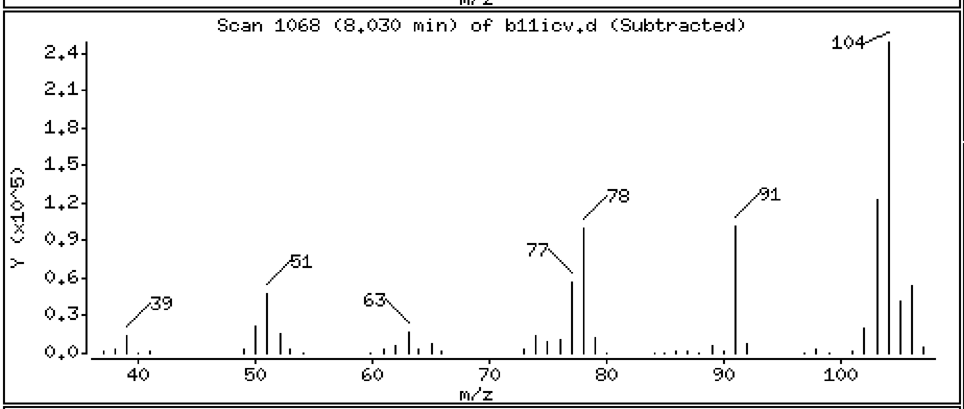
74 Styrene

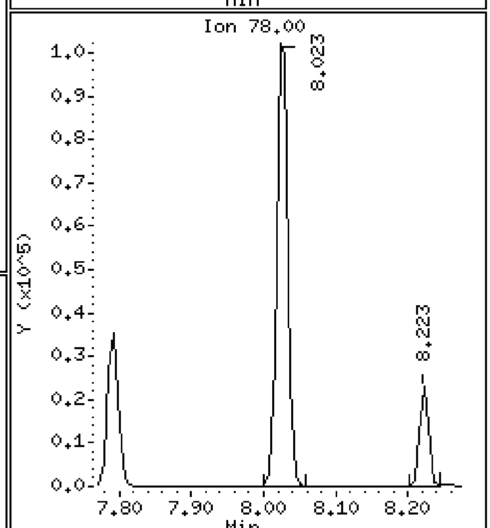
Concentration: 48.4 ppb

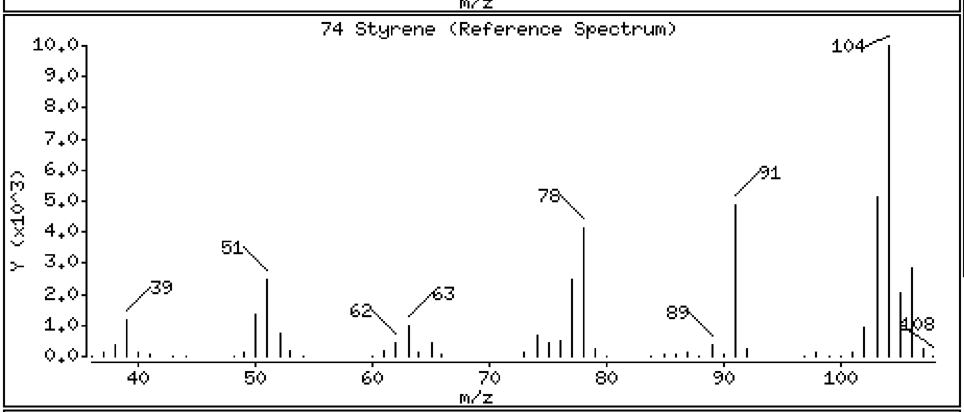
Review Code:

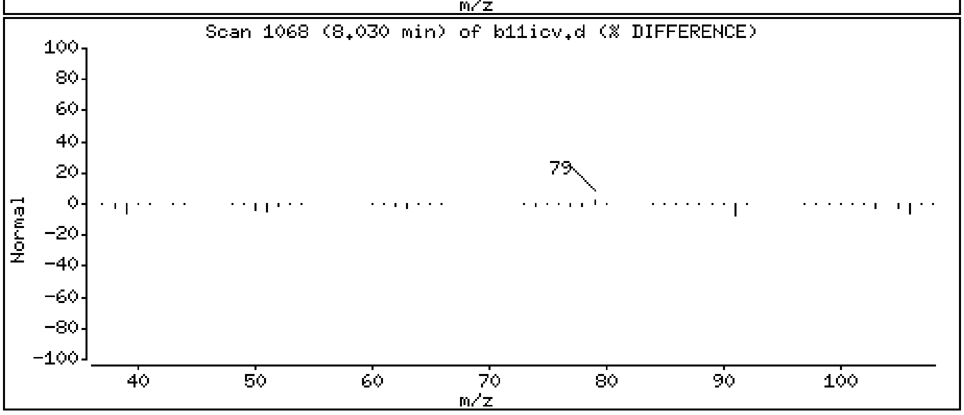












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

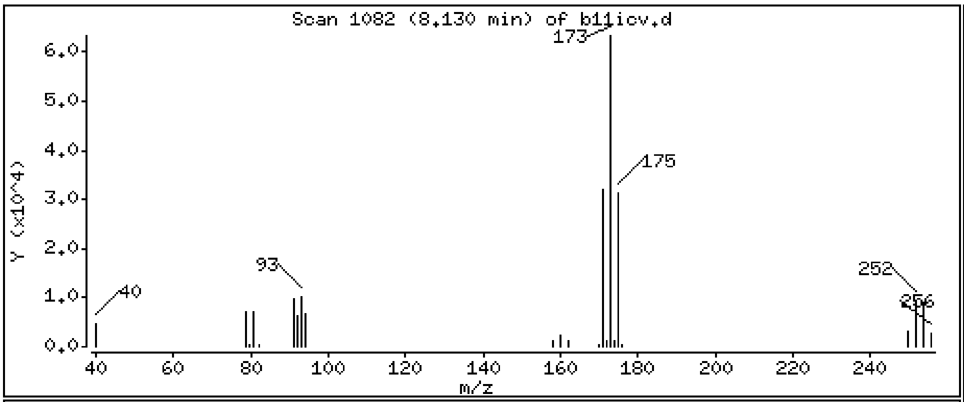
Column phase: DB-624

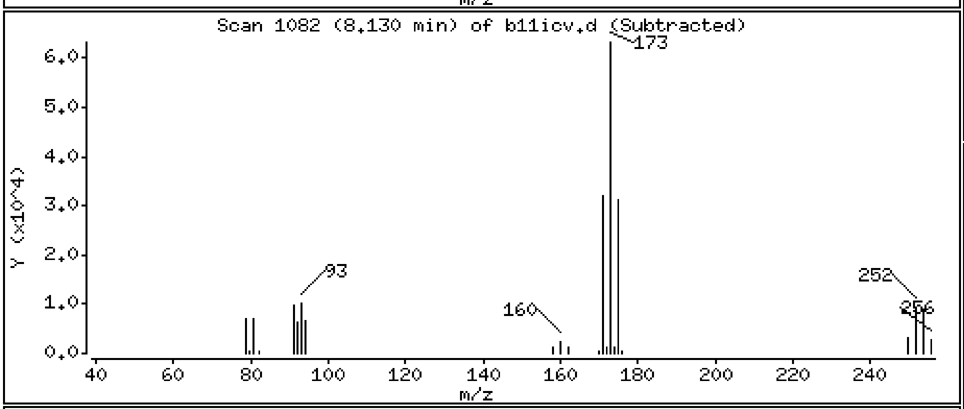
Column diameter: 0.18

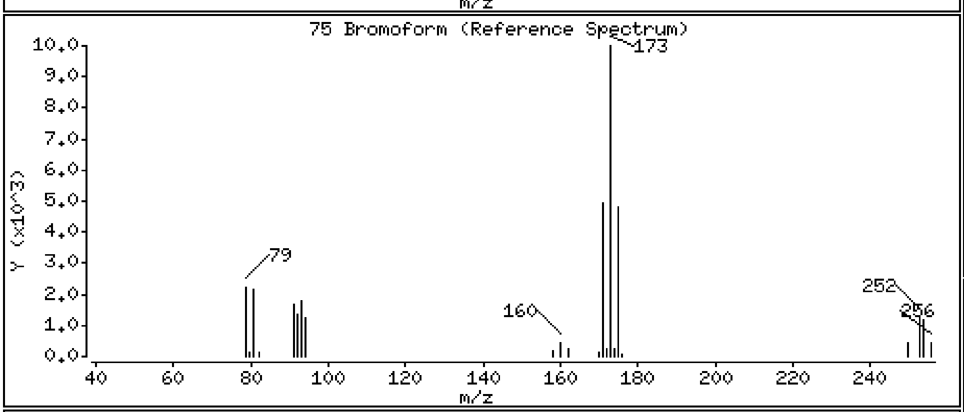
75 Bromoform

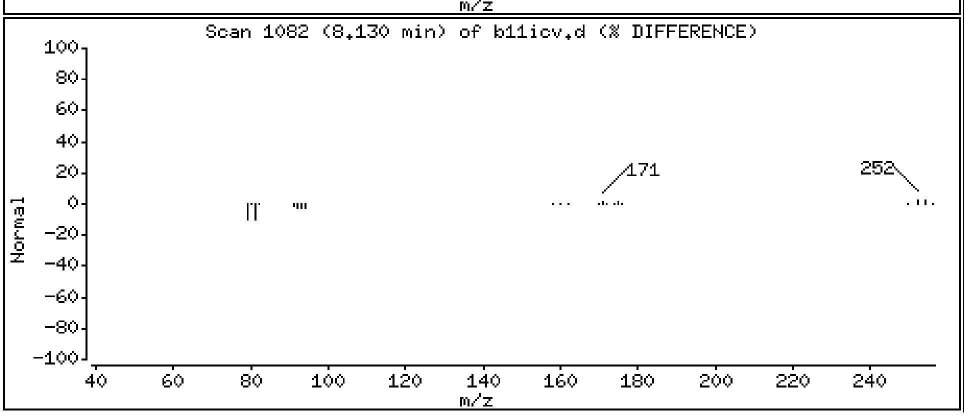
Concentration: 45.2 ppb

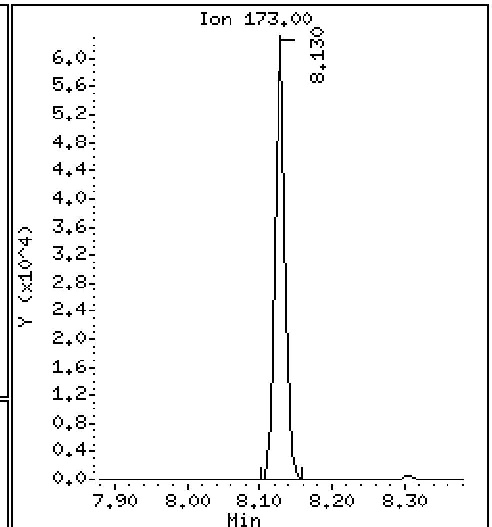
Review Code:

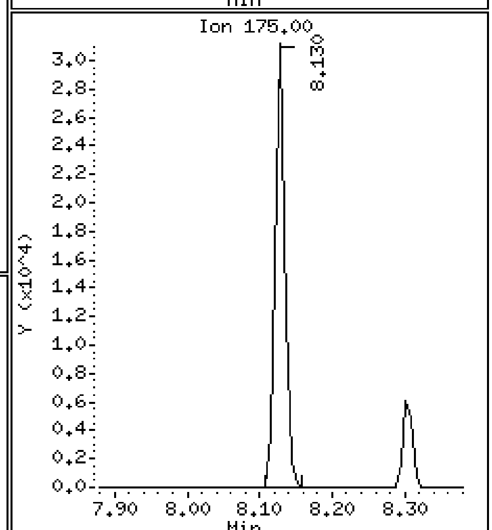


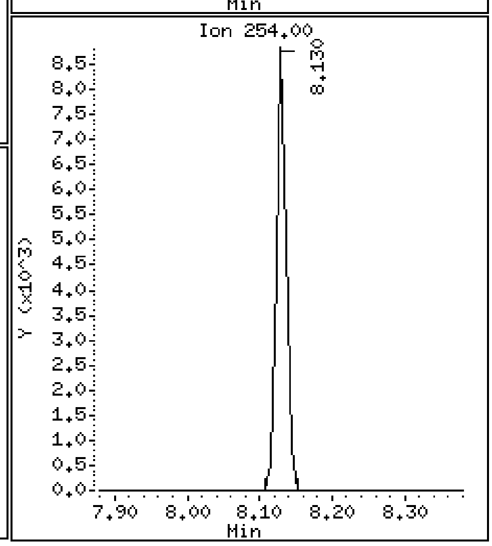












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

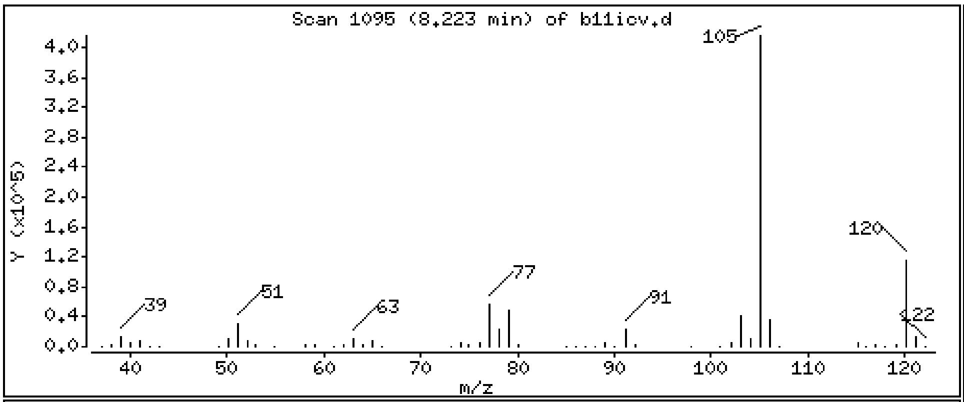
Column phase: DB-624

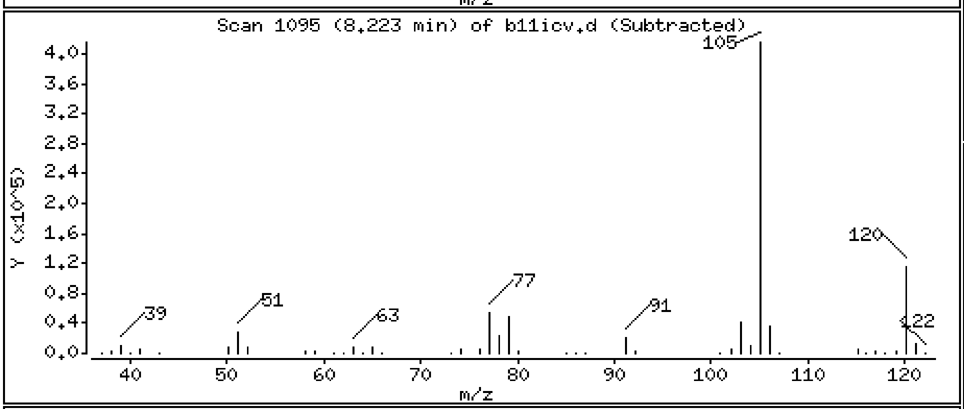
Column diameter: 0.18

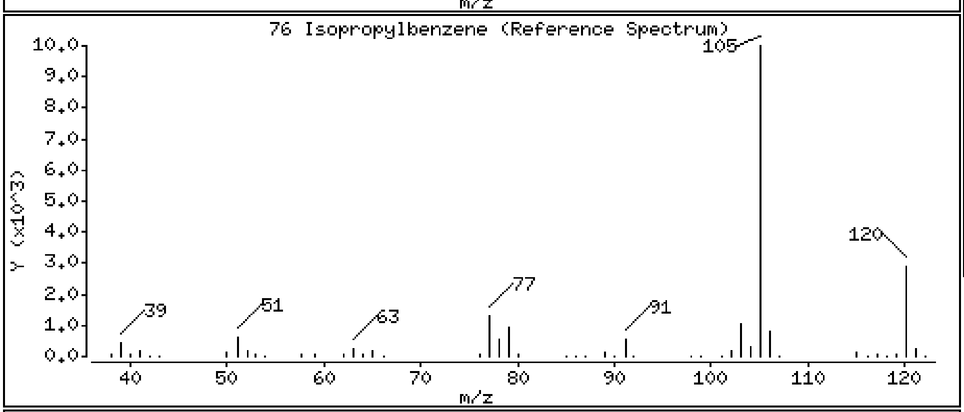
76 Isopropylbenzene

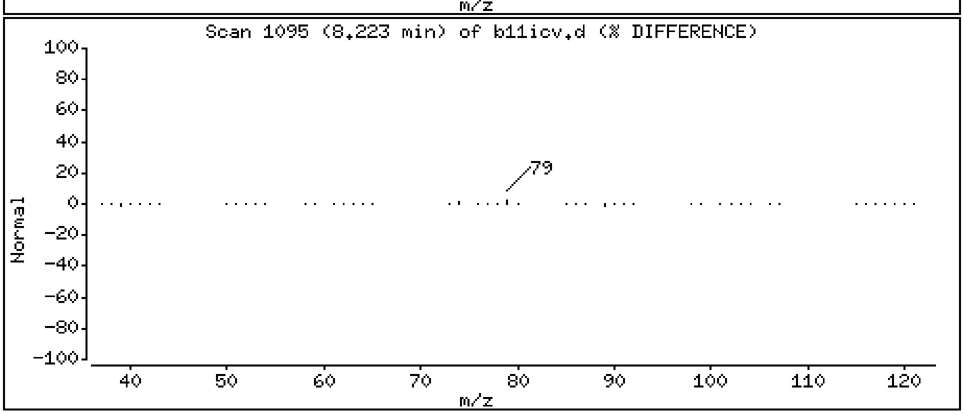
Concentration: 48.8 ppb

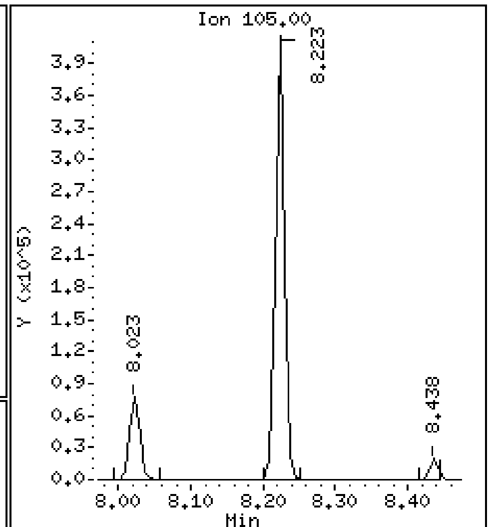
Review Code:

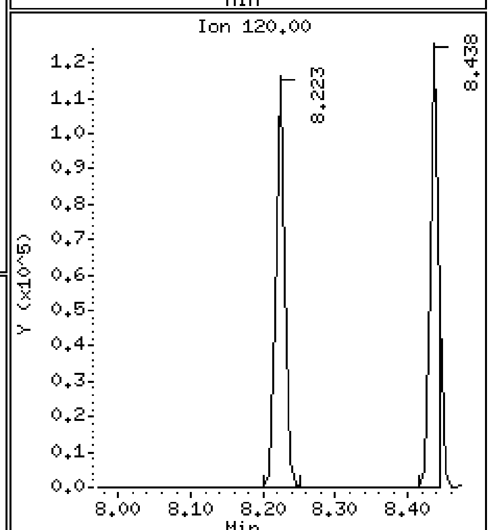












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Date : 16-JAN-2023 19:47

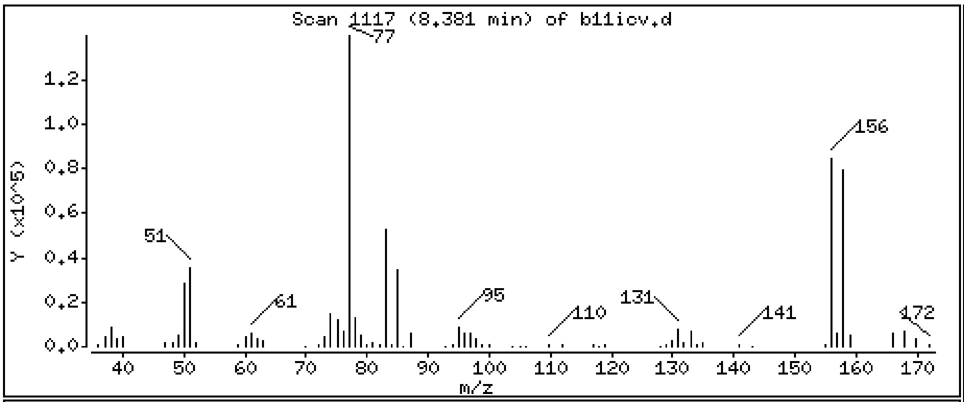
Client ID: 8260-ICV Instrument: 50mvcb.i

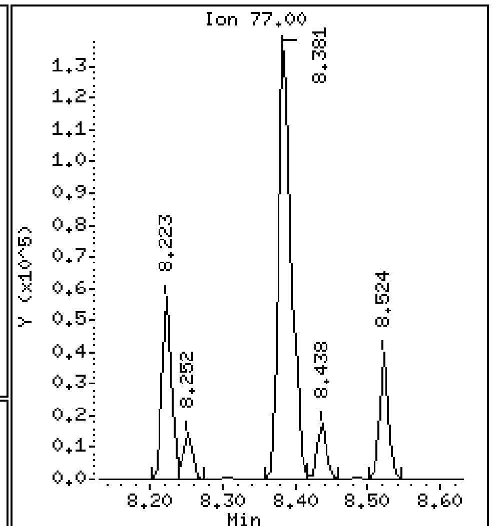
Sample Info: 8260-ICV,335770:0

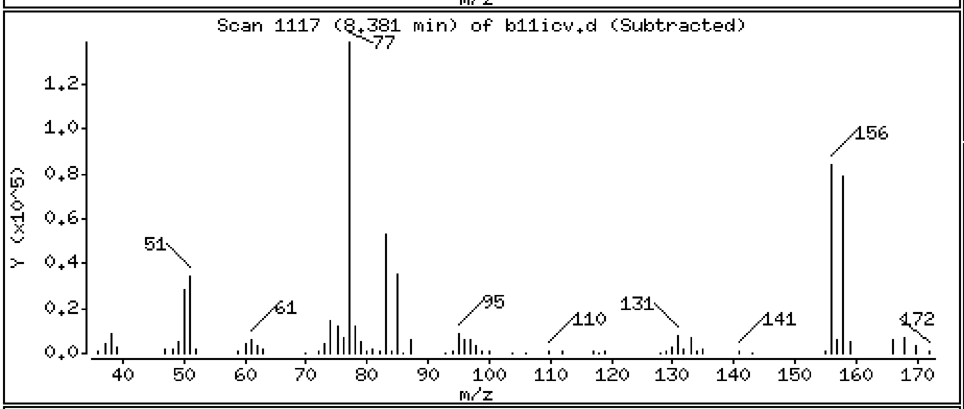
Purge Volume: 5.0 Operator: DAP

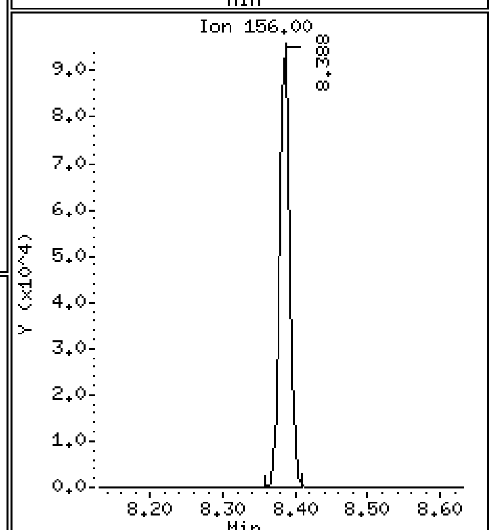
Column phase: DB-624 Column diameter: 0.18

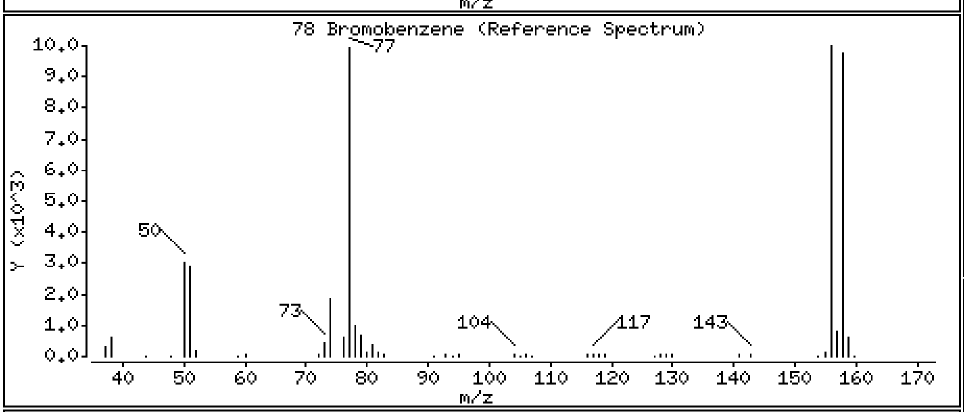
78 Bromobenzene Concentration: 47.2 ppb Review Code:

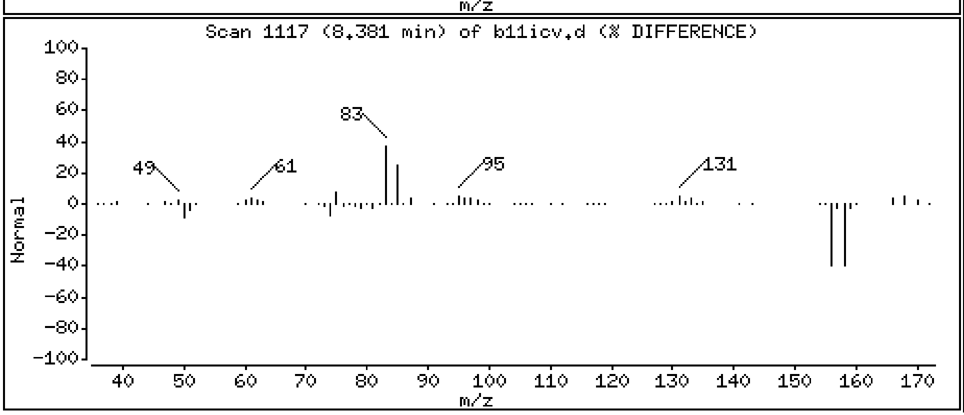


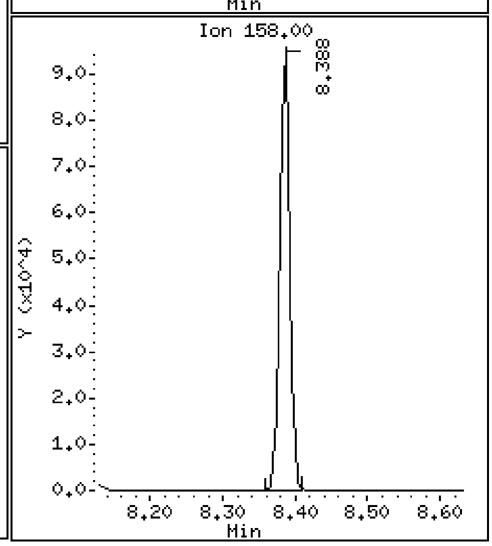












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

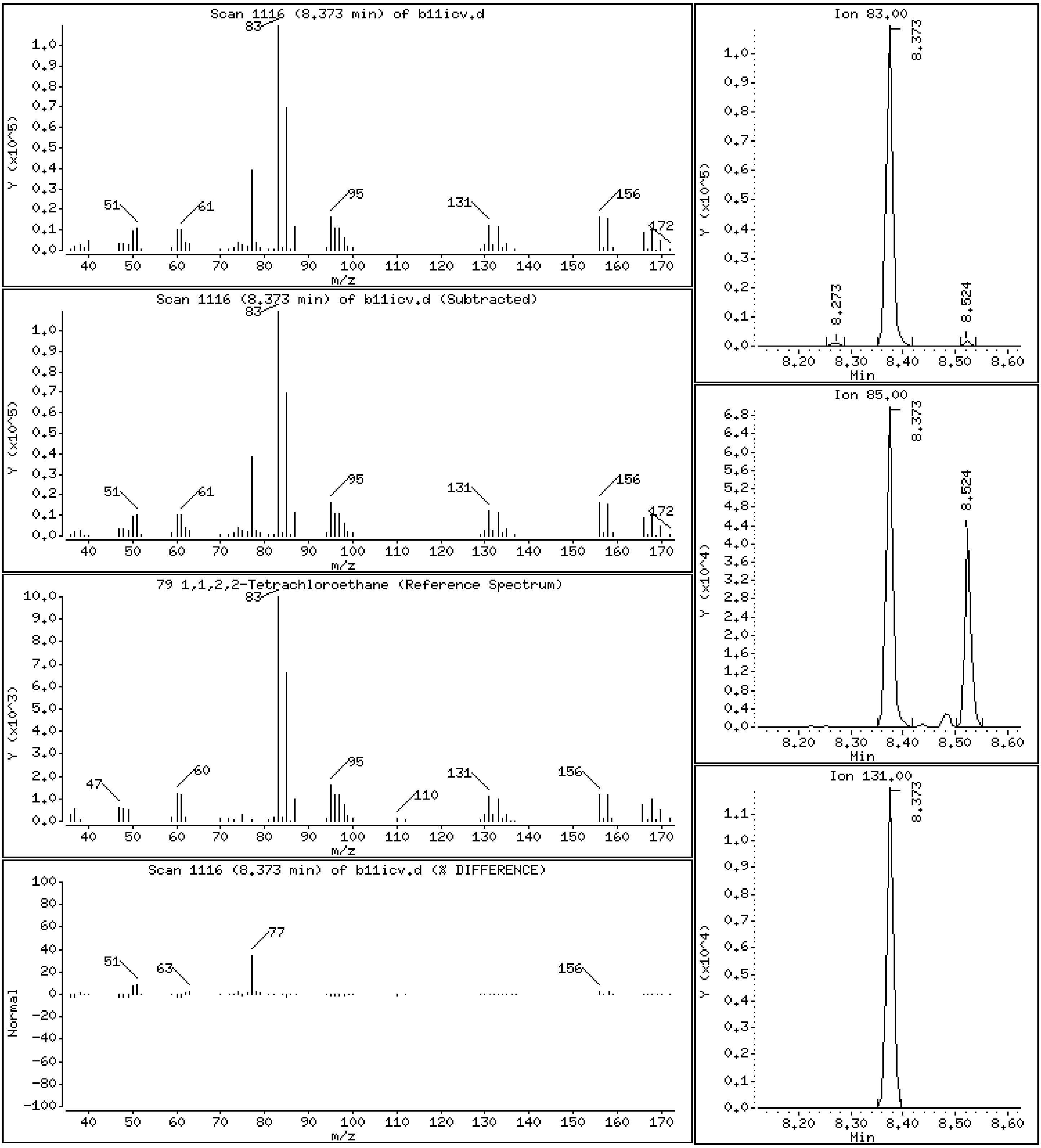
Column phase: DB-624

Column diameter: 0.18

79 1,1,2,2-Tetrachloroethane

Concentration: 44.6 ppb

Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

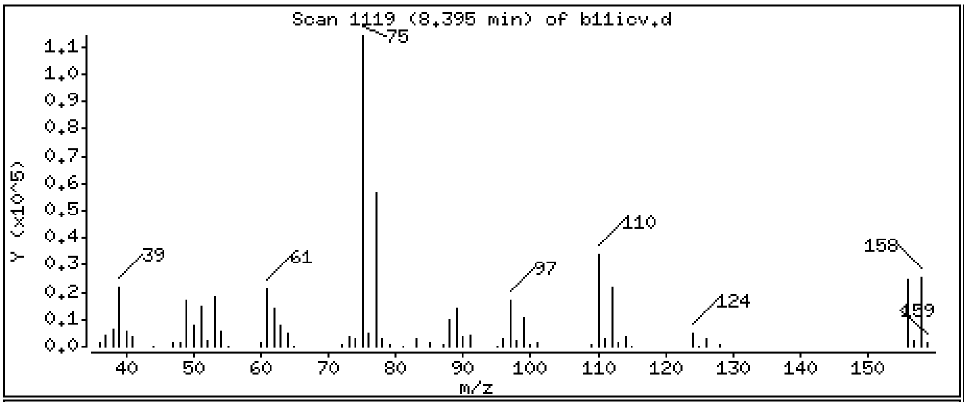
Column phase: DB-624

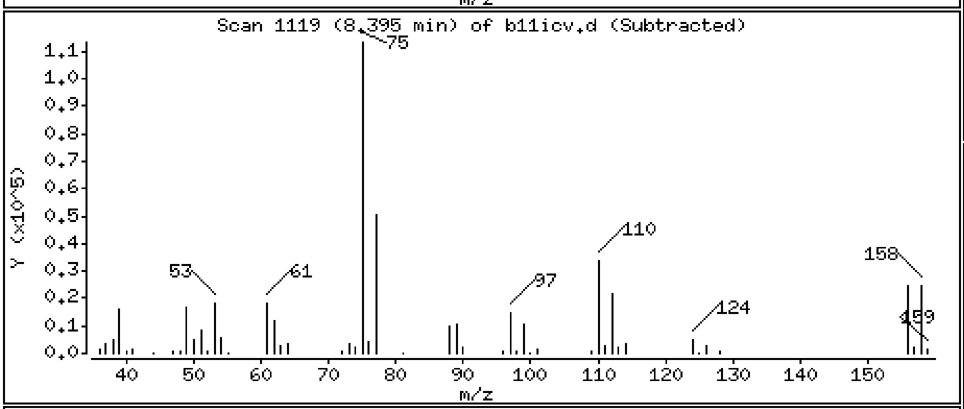
Column diameter: 0.18

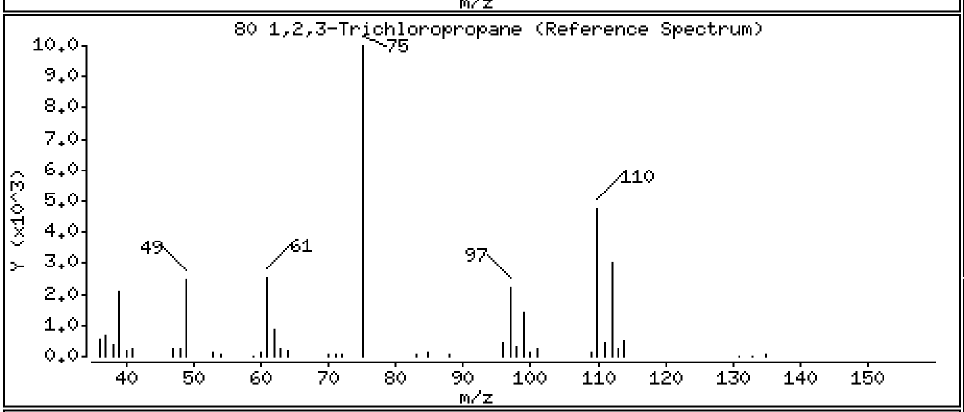
80 1,2,3-Trichloropropane

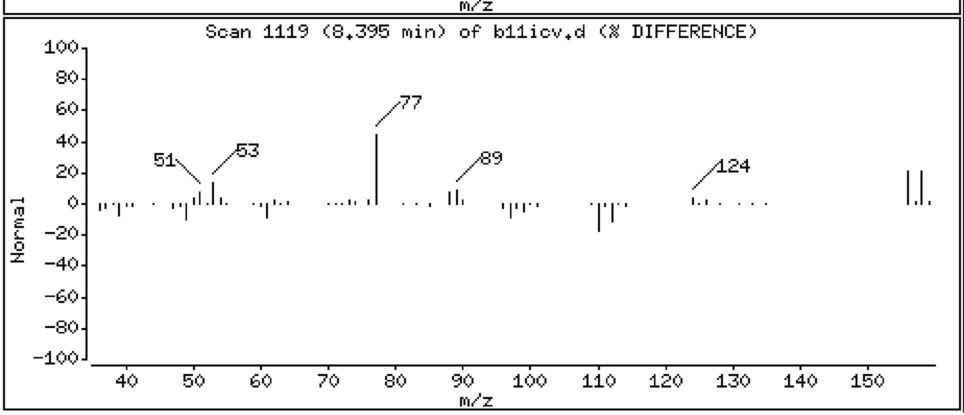
Concentration: 44.7 ppb

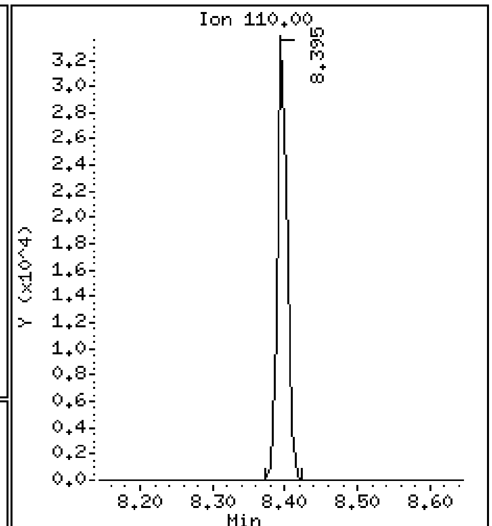
Review Code:

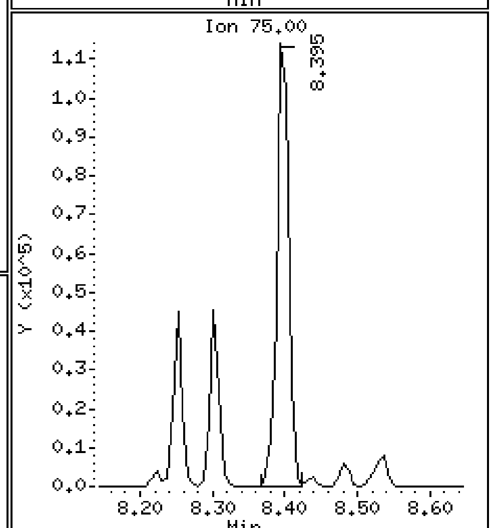


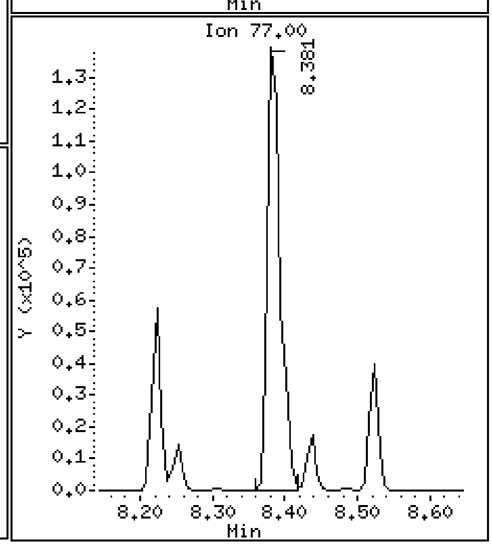












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

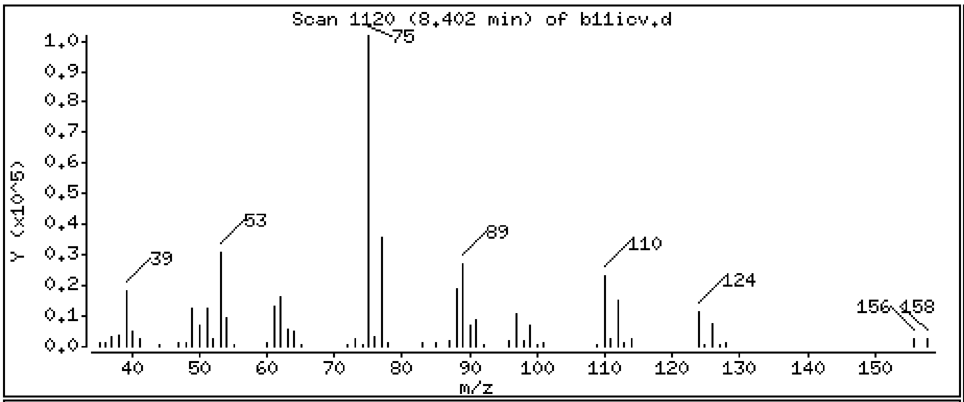
Column phase: DB-624

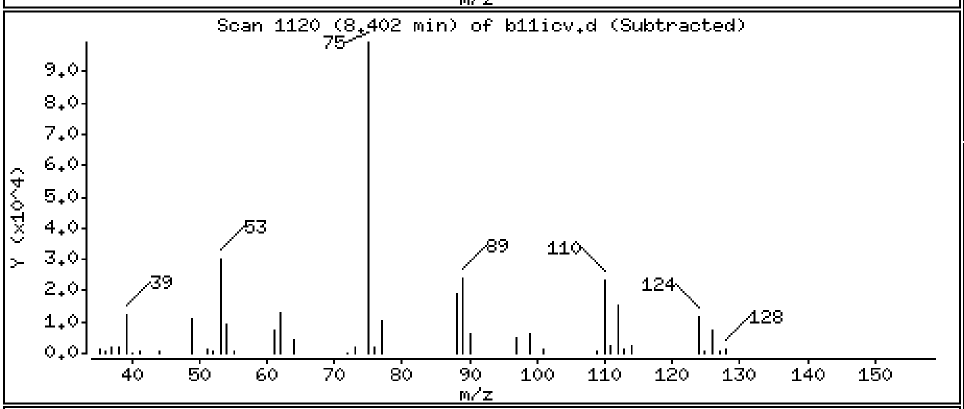
Column diameter: 0.18

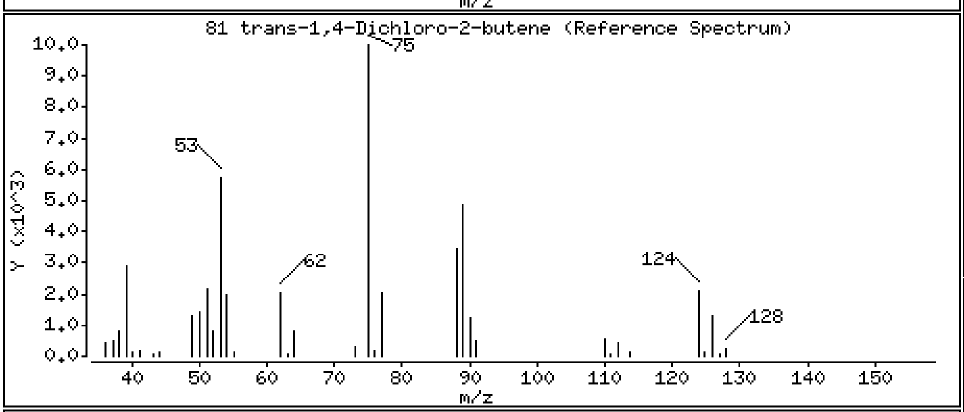
81 trans-1,4-Dichloro-2-butene

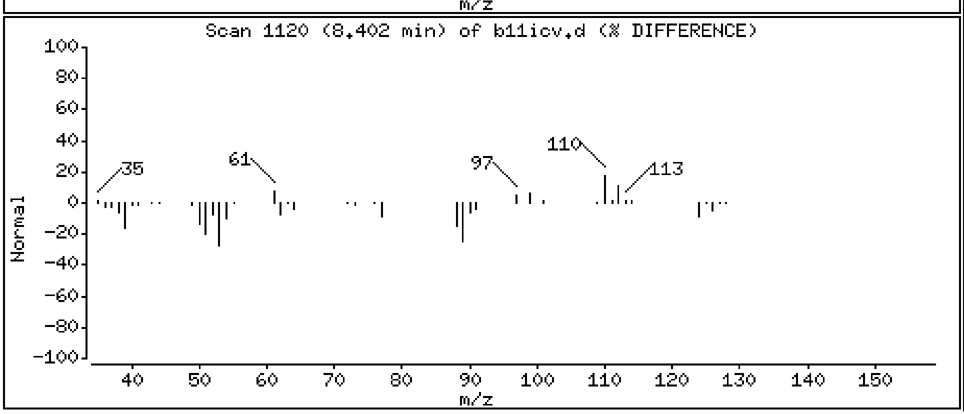
Concentration: 46.5 ppb

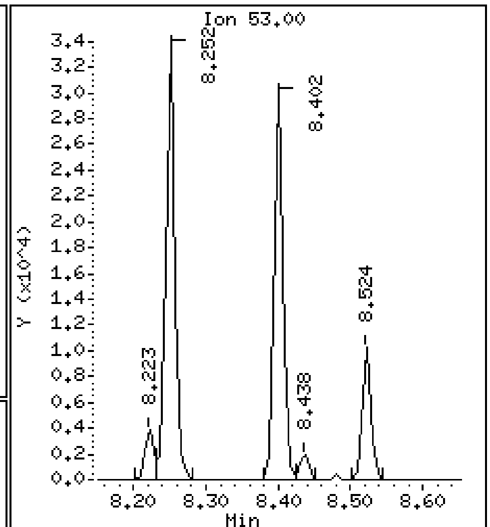
Review Code:

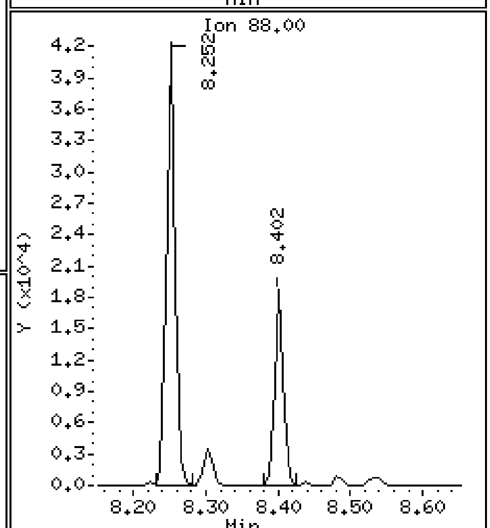


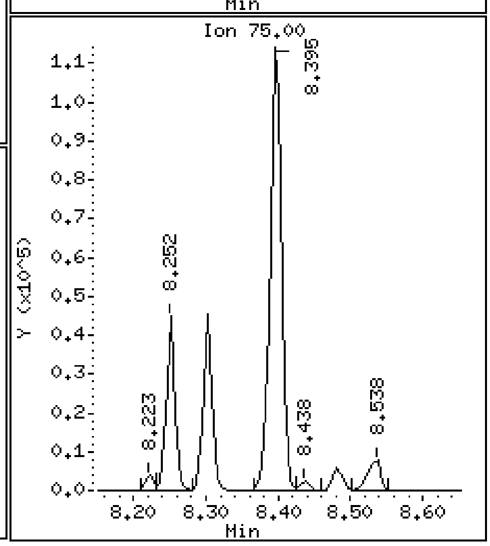












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

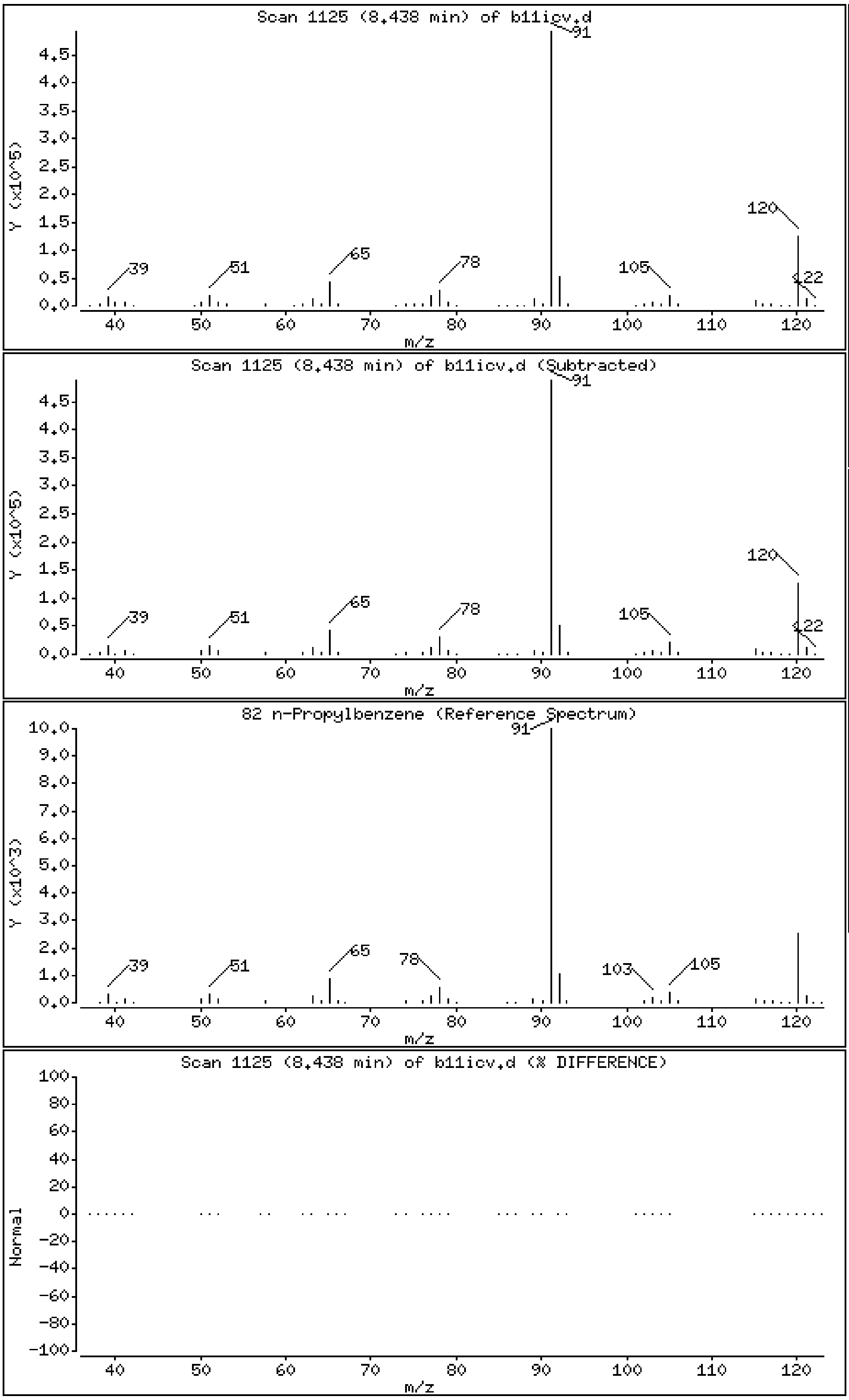
Column phase: DB-624

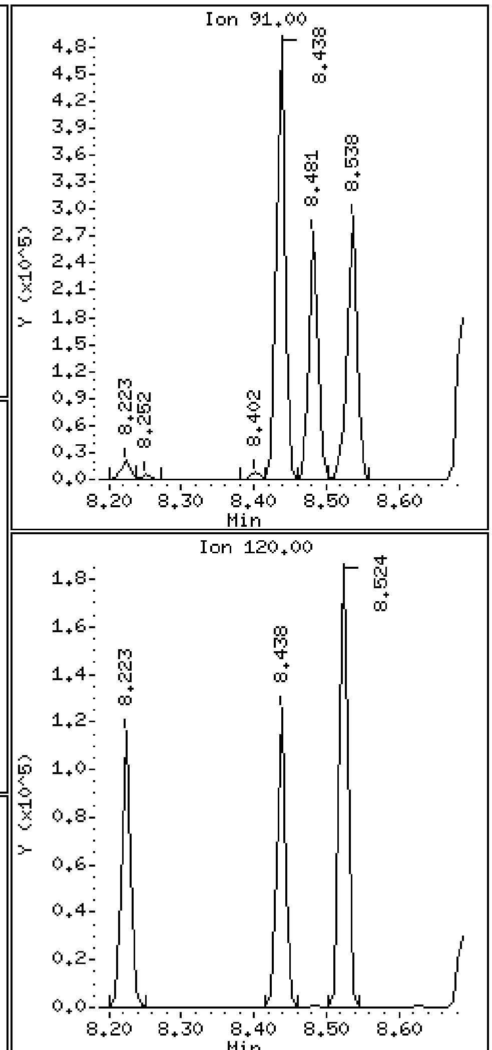
Column diameter: 0.18

82 n-Propylbenzene

Concentration: 48.4 ppb

Review Code:





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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

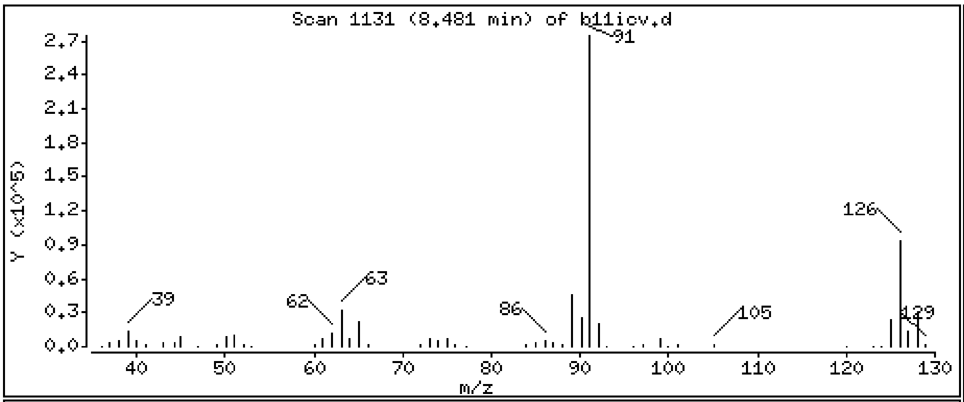
Column phase: DB-624

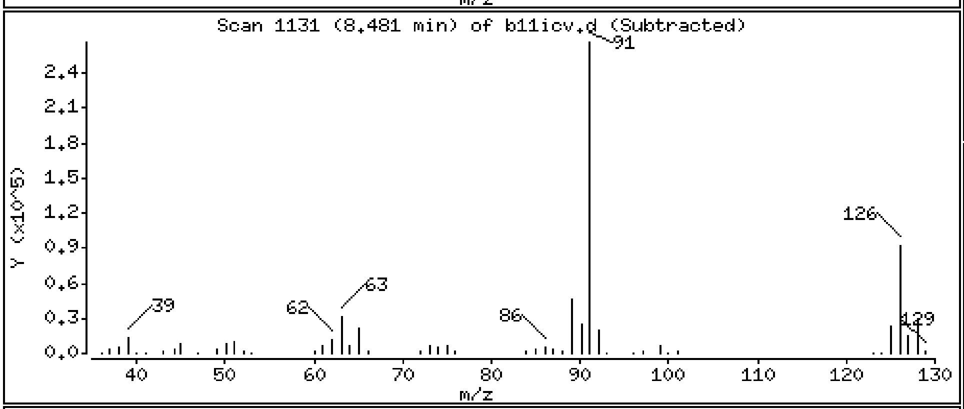
Column diameter: 0.18

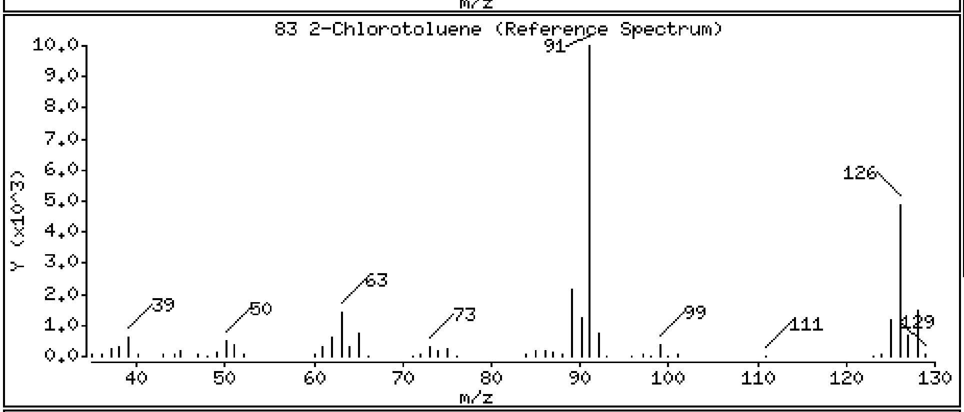
83 2-Chlorotoluene

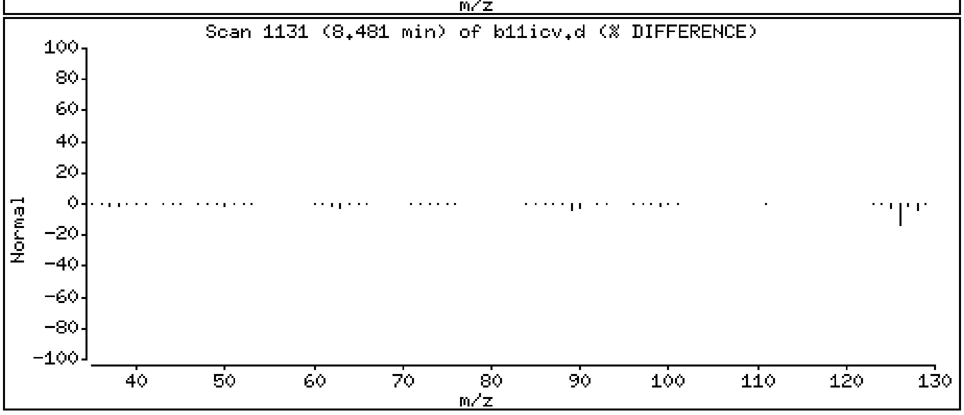
Concentration: 47.7 ppb

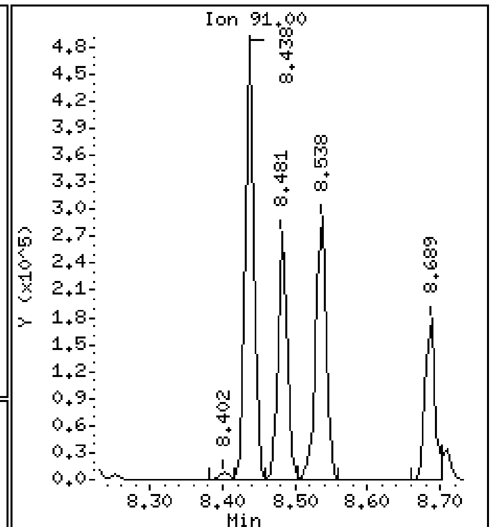
Review Code:

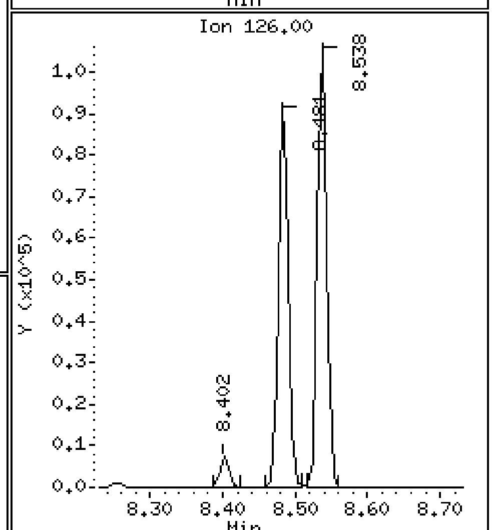












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

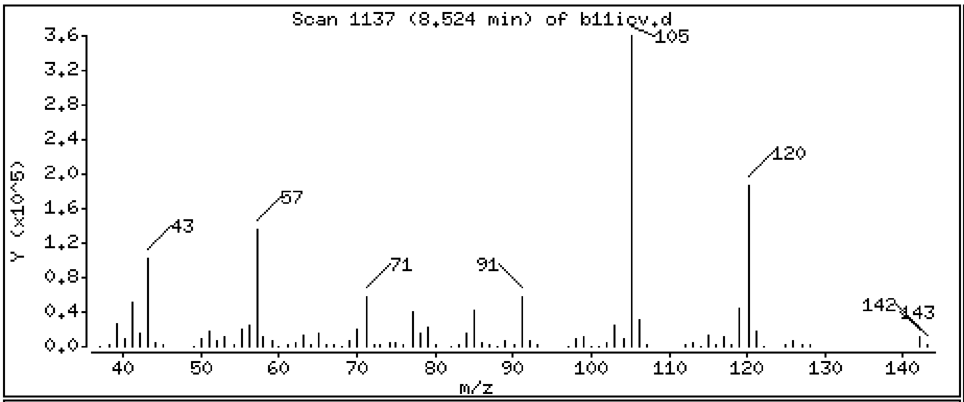
Column phase: DB-624

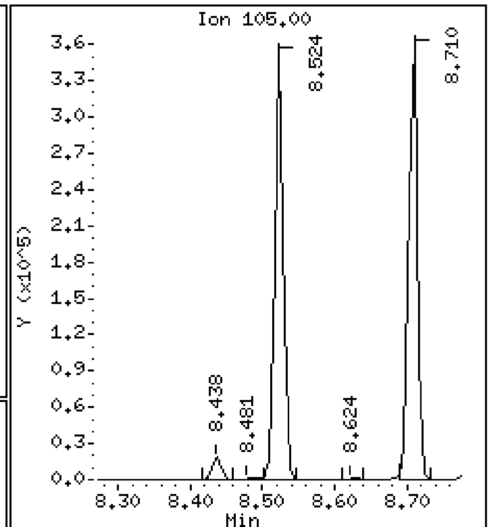
Column diameter: 0.18

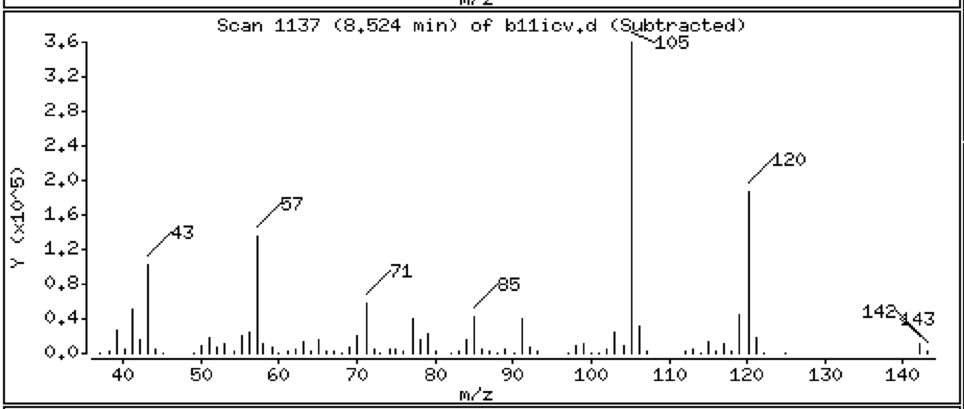
84 1,3,5-Trimethylbenzene

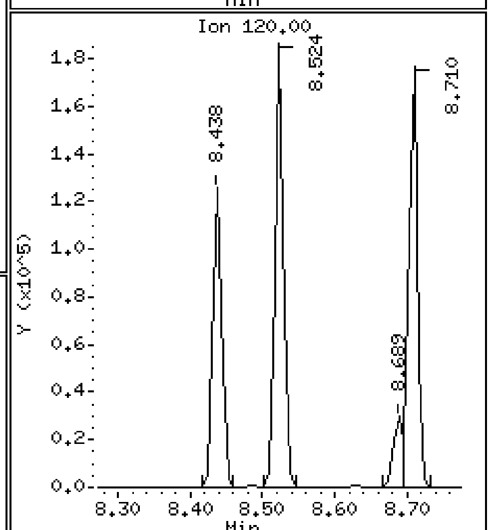
Concentration: 49.9 ppb

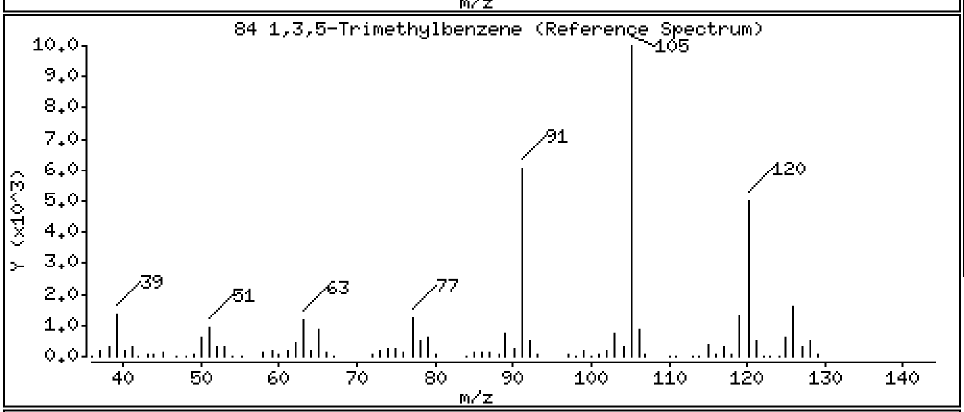
Review Code:

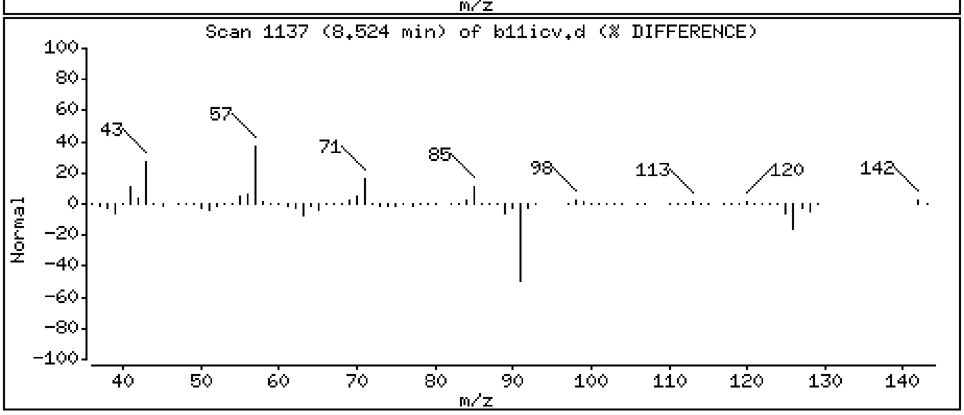












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Date : 16-JAN-2023 19:47

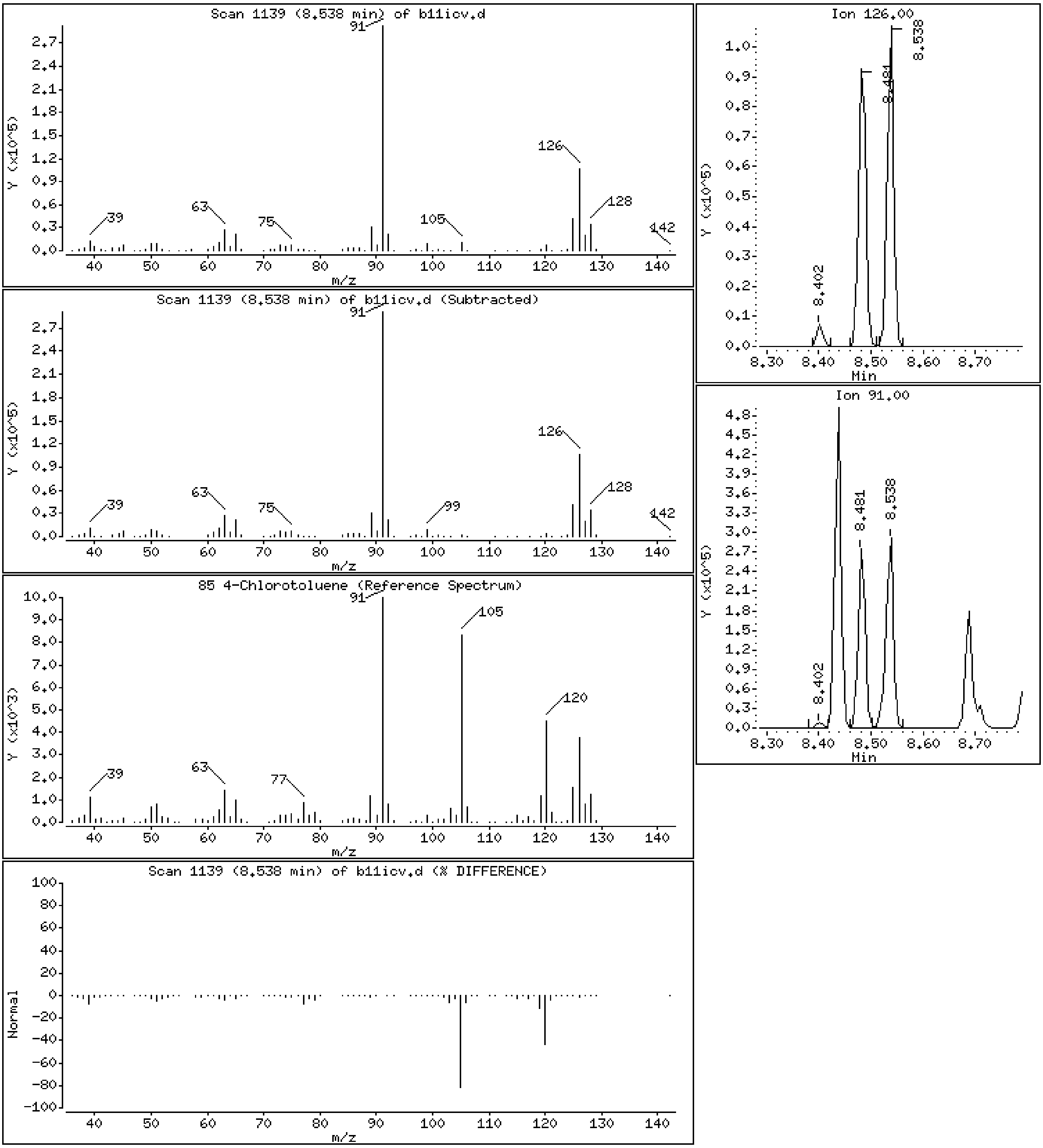
Client ID: 8260-ICV Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0 Operator: DAP

Column phase: DB-624 Column diameter: 0.18

85 4-Chlorotoluene Concentration: 47.4 ppb Review Code:



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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

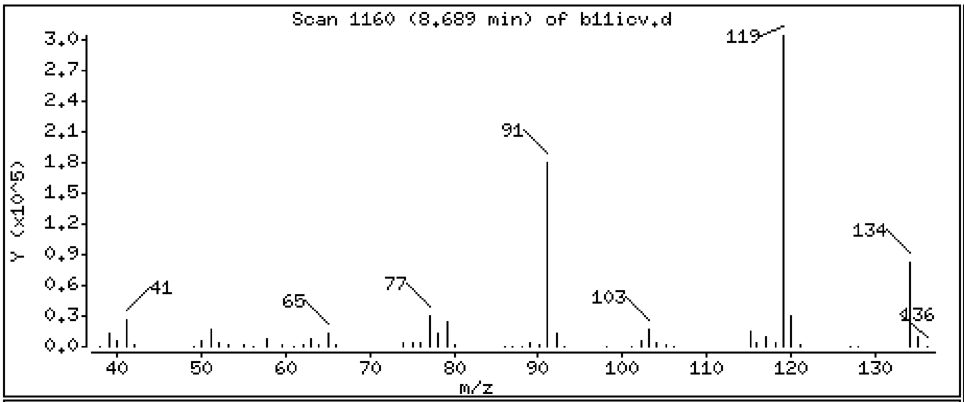
Column phase: DB-624

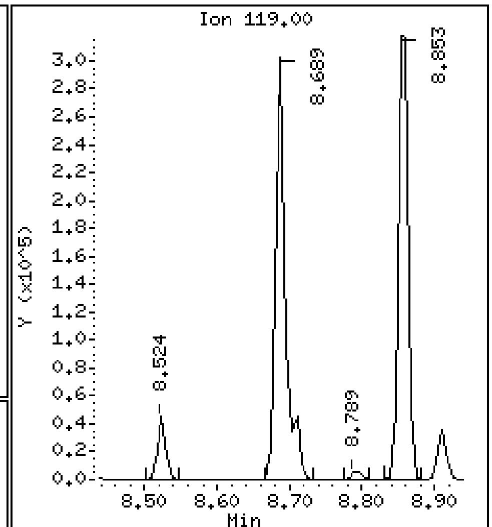
Column diameter: 0.18

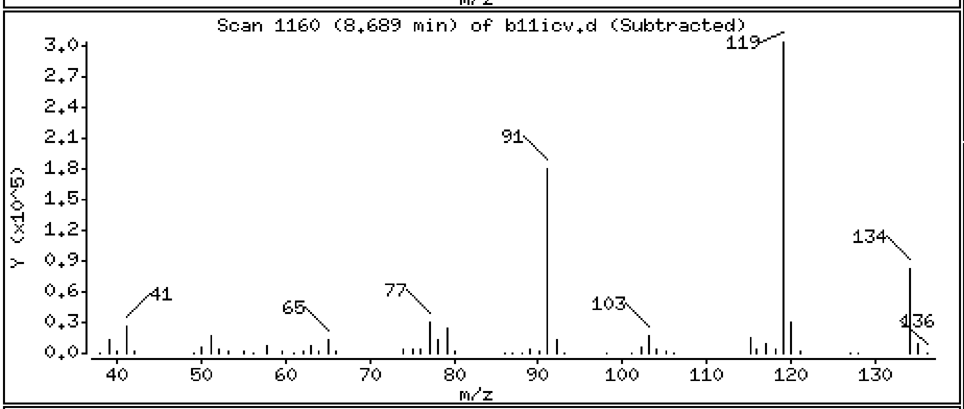
86 tert-Butylbenzene

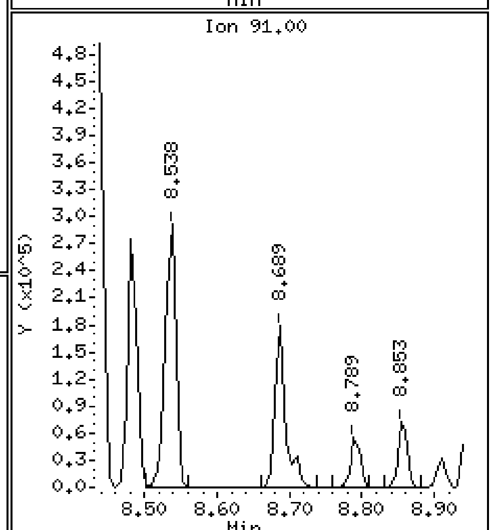
Concentration: 51.5 ppb

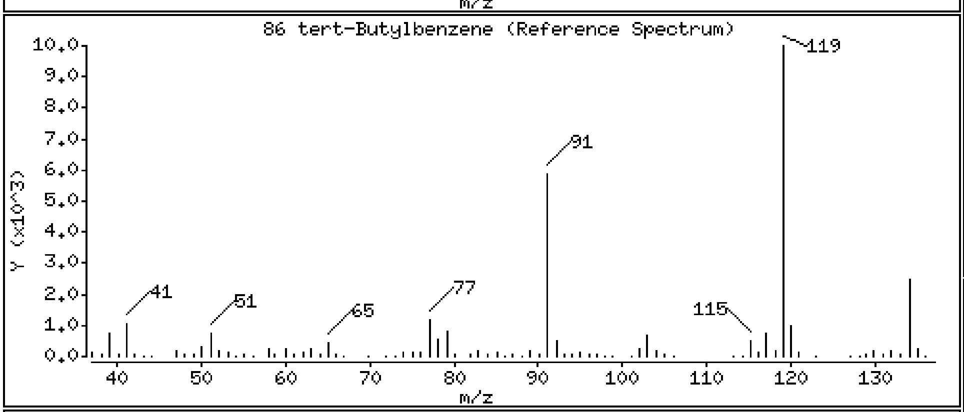
Review Code:

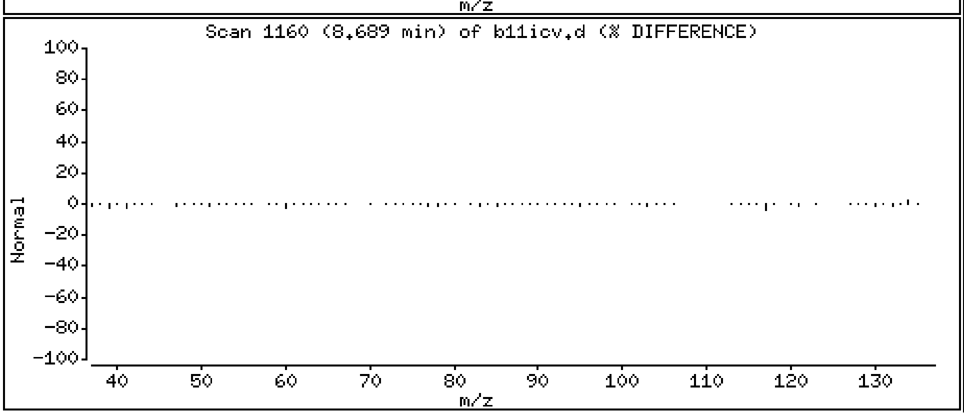


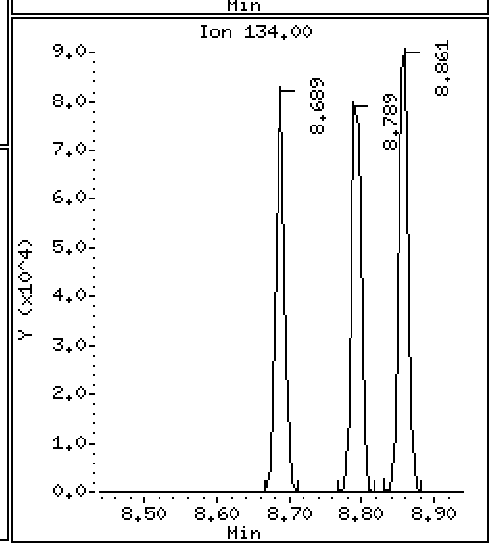












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

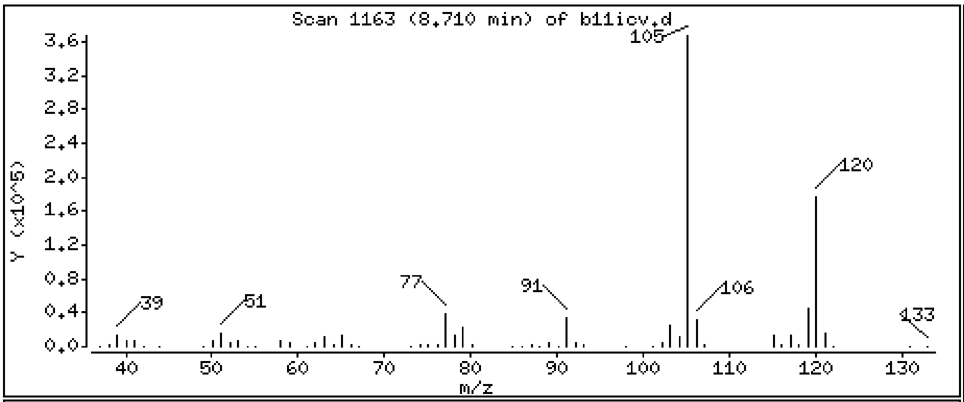
Client ID: 8260-ICV Instrument: 50mvcb.i

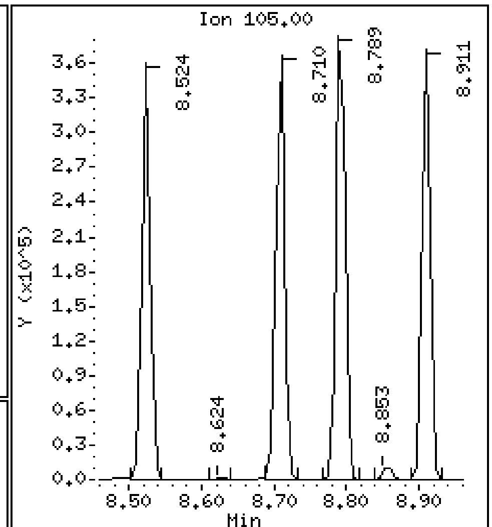
Sample Info: 8260-ICV,335770:0

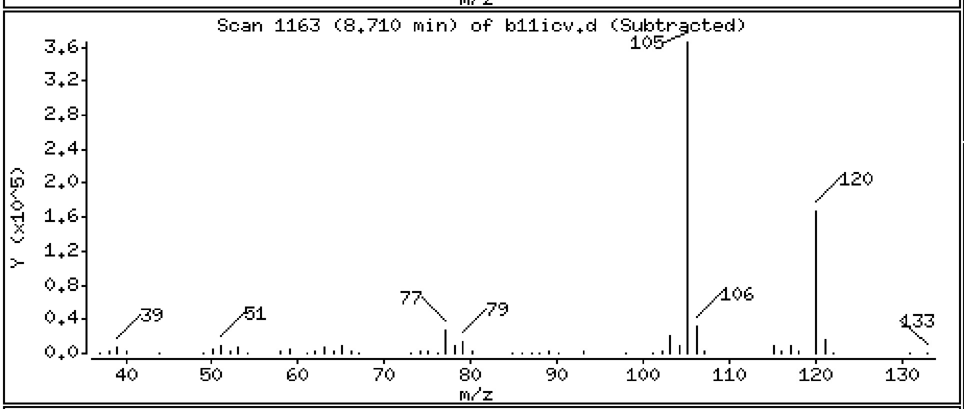
Purge Volume: 5.0 Operator: DAP

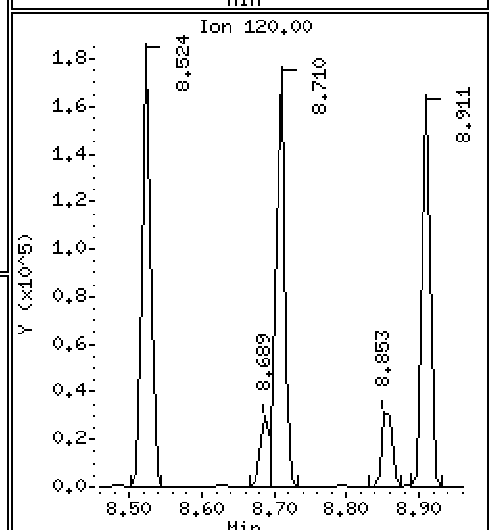
Column phase: DB-624 Column diameter: 0.18

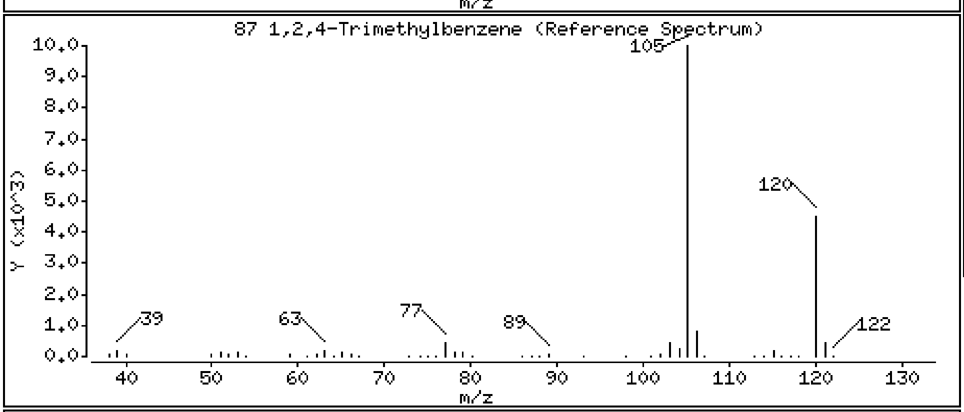
87 1,2,4-Trimethylbenzene Concentration: 51.9 ppb Review Code:

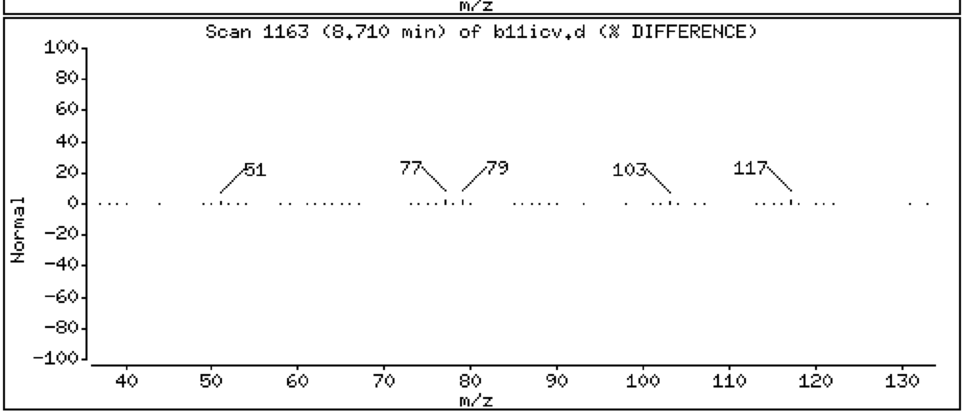












Date : 16-JAN-2023 19:47

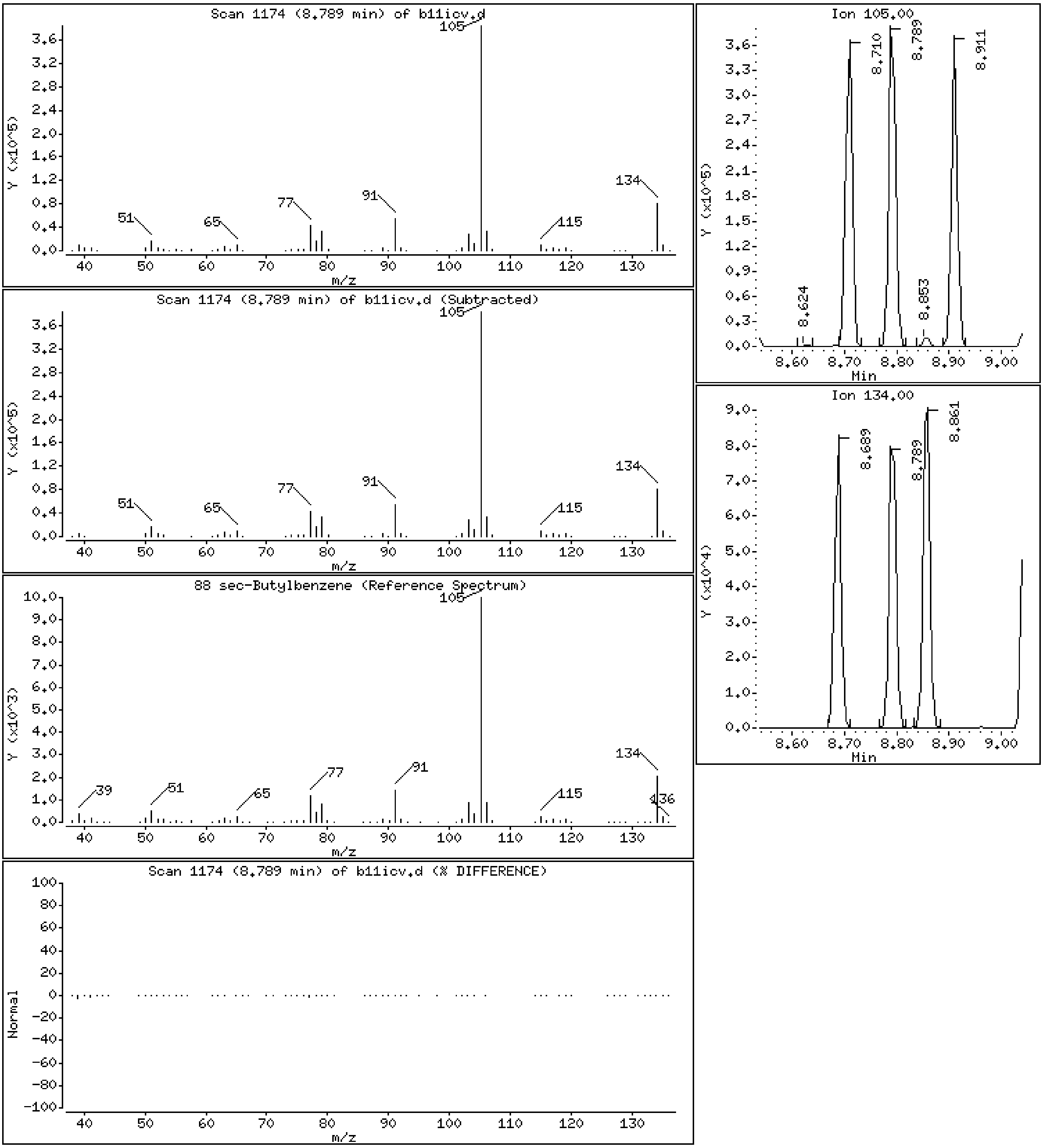
Client ID: 8260-ICV Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0 Operator: DAP

Column phase: DB-624 Column diameter: 0.18

88 sec-Butylbenzene Concentration: 49.9 ppb Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

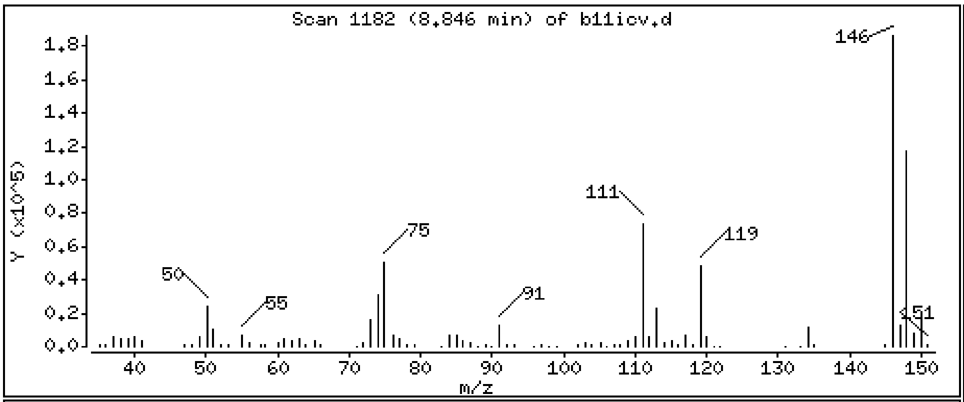
Column phase: DB-624

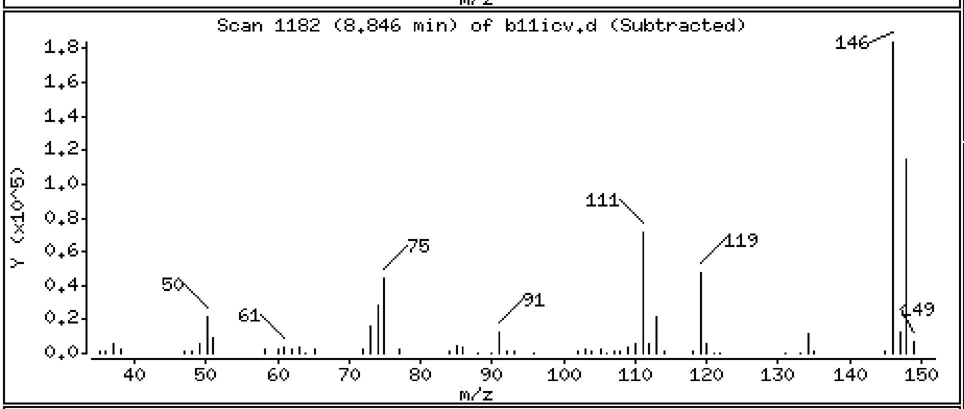
Column diameter: 0.18

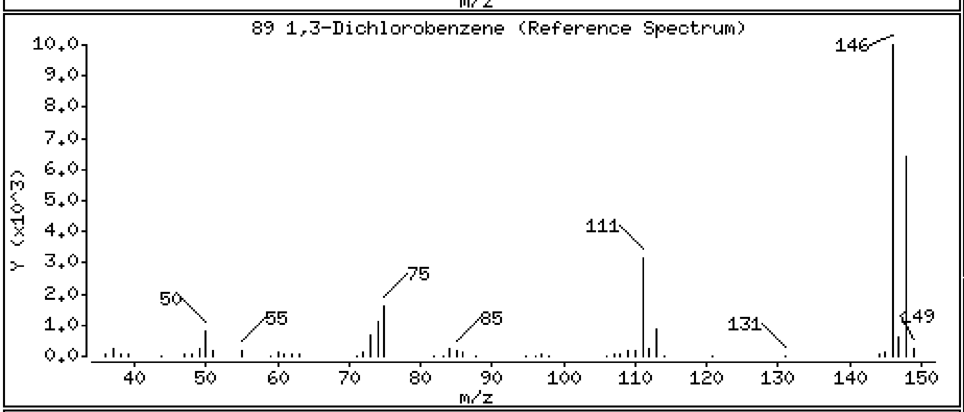
89 1,3-Dichlorobenzene

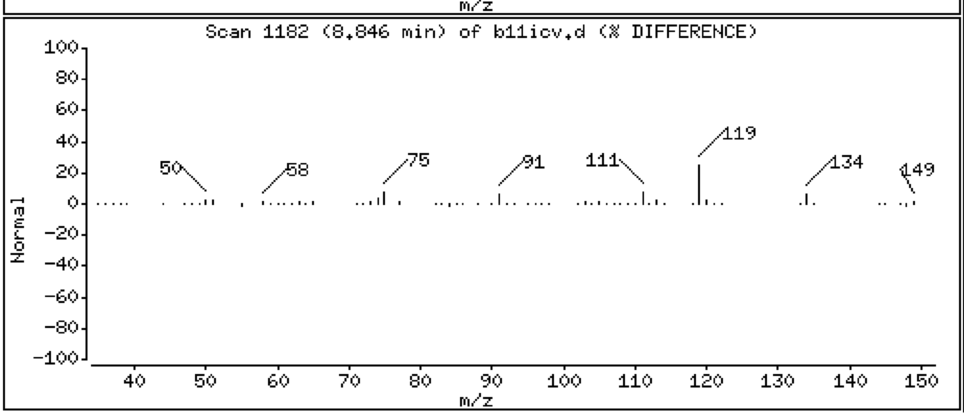
Concentration: 49.1 ppb

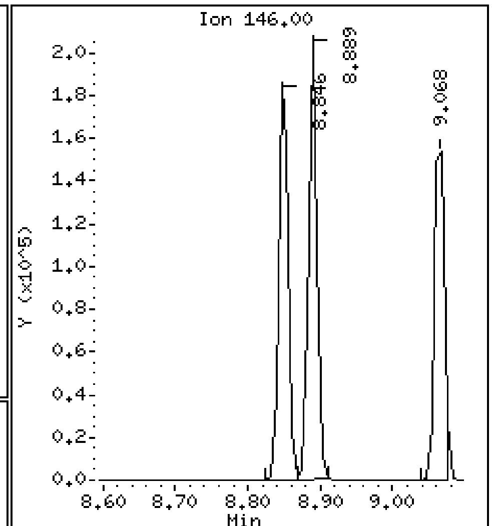
Review Code:

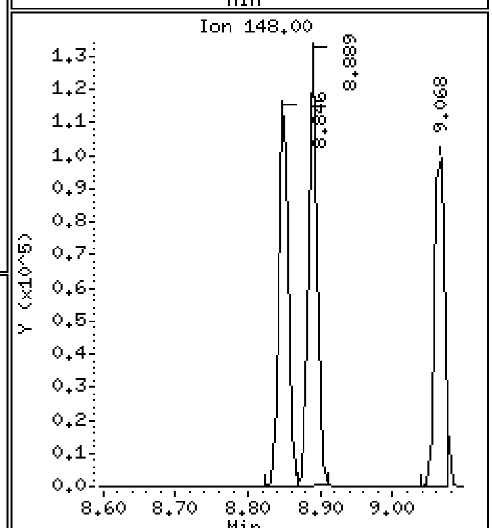


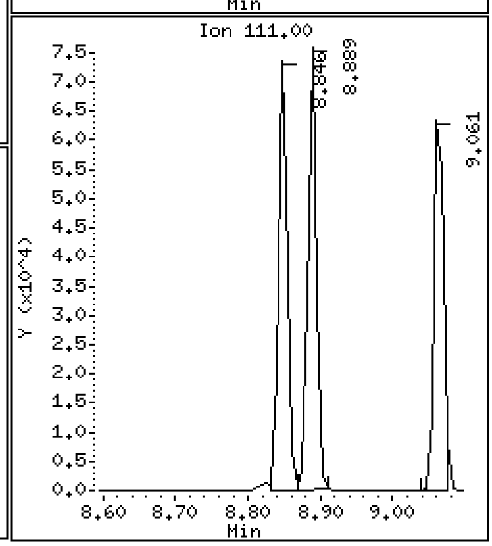












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

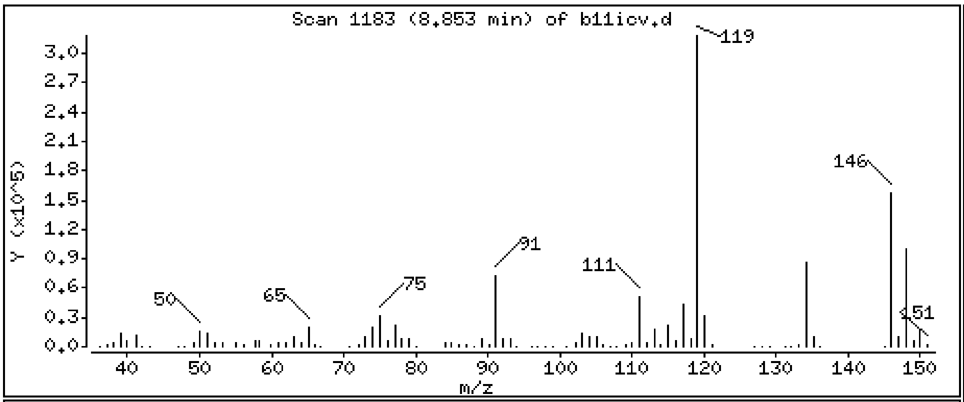
Column phase: DB-624

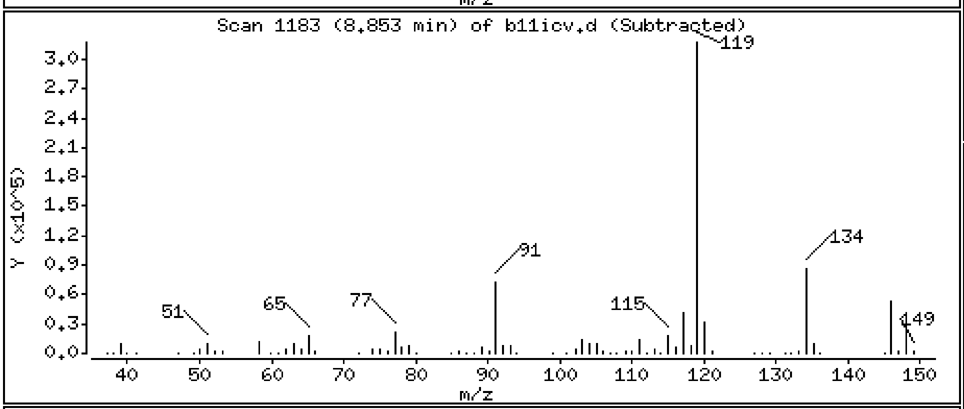
Column diameter: 0.18

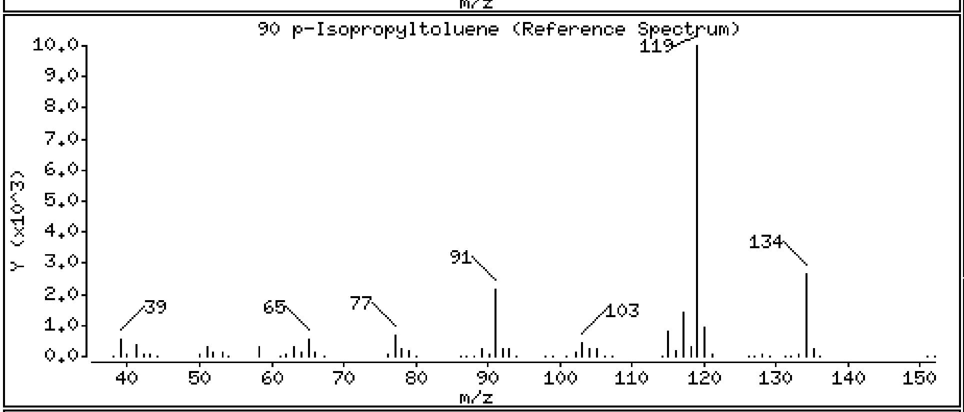
90 p-Isopropyltoluene

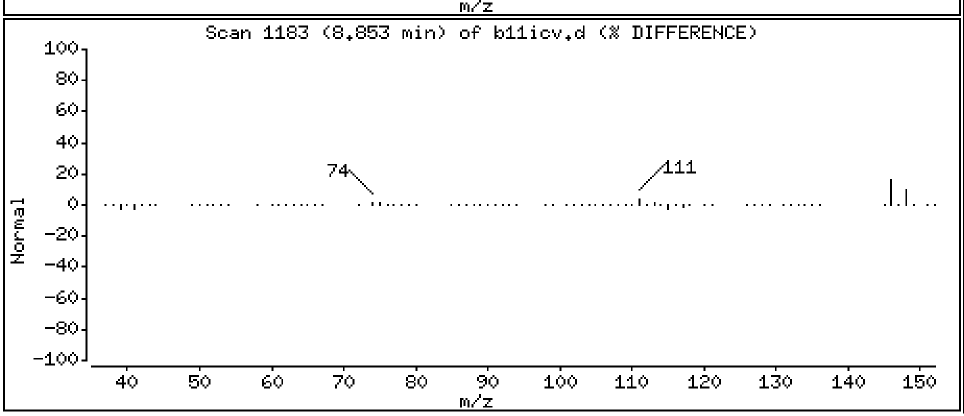
Concentration: 50.5 ppb

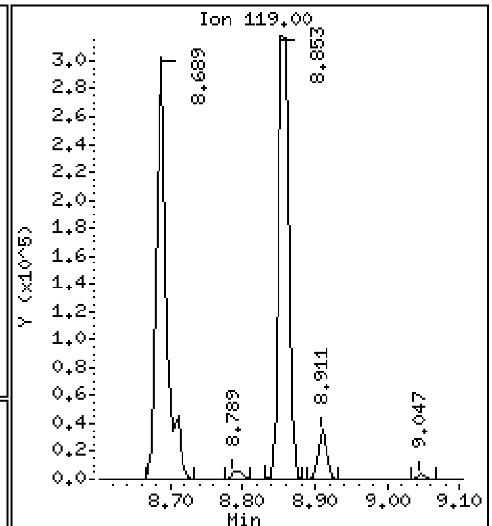
Review Code:

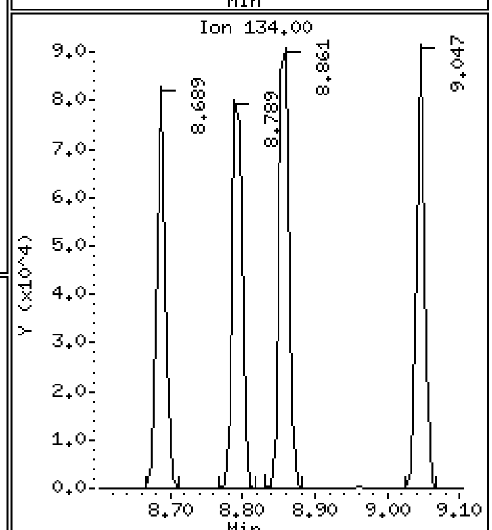


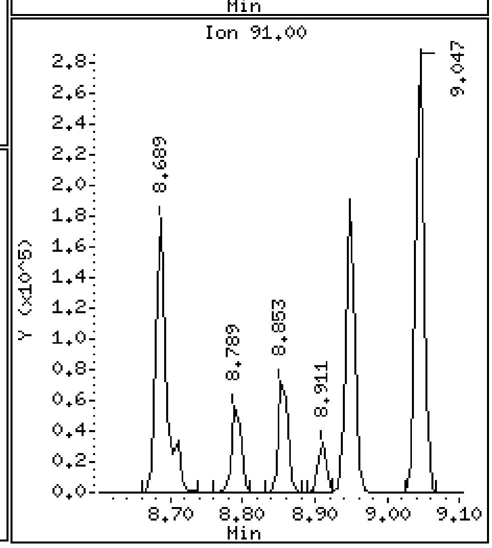












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

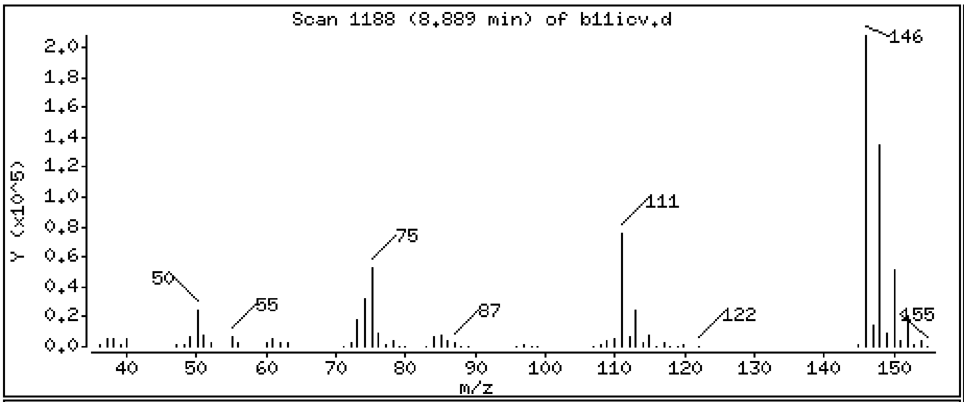
Client ID: 8260-ICV Instrument: 50mvcb.i

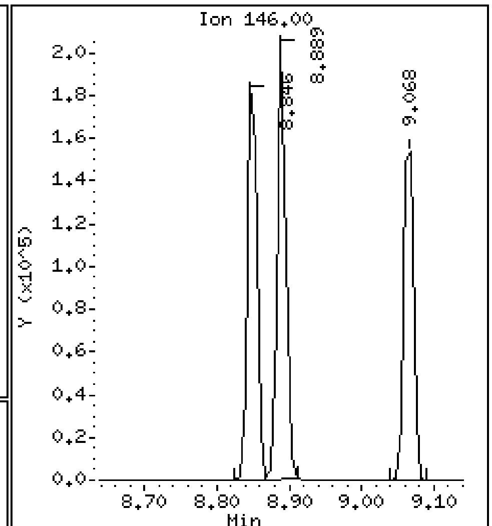
Sample Info: 8260-ICV,335770:0

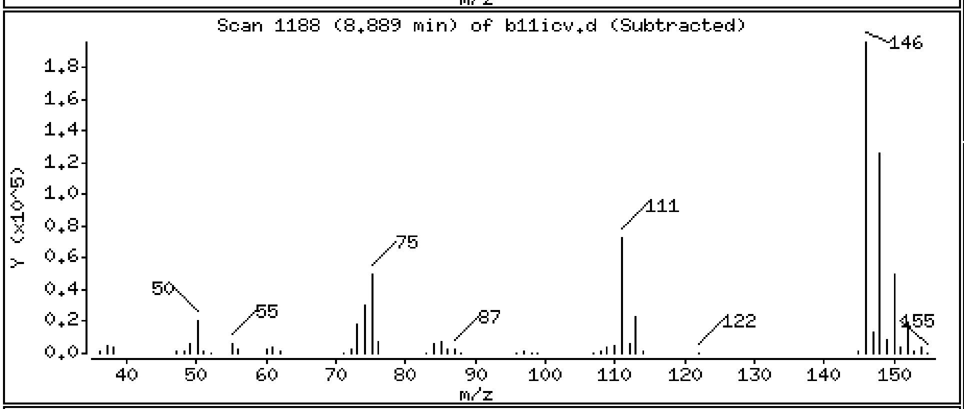
Purge Volume: 5.0 Operator: DAP

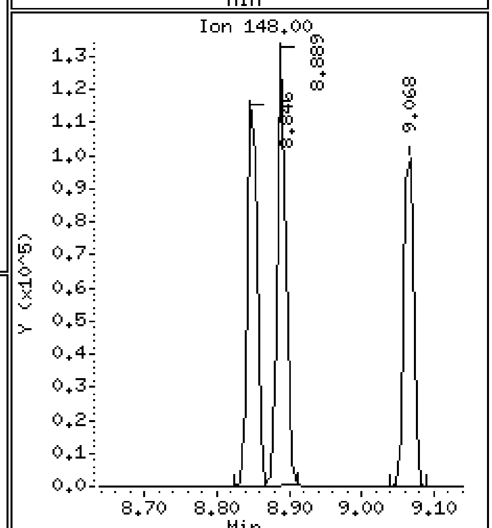
Column phase: DB-624 Column diameter: 0.18

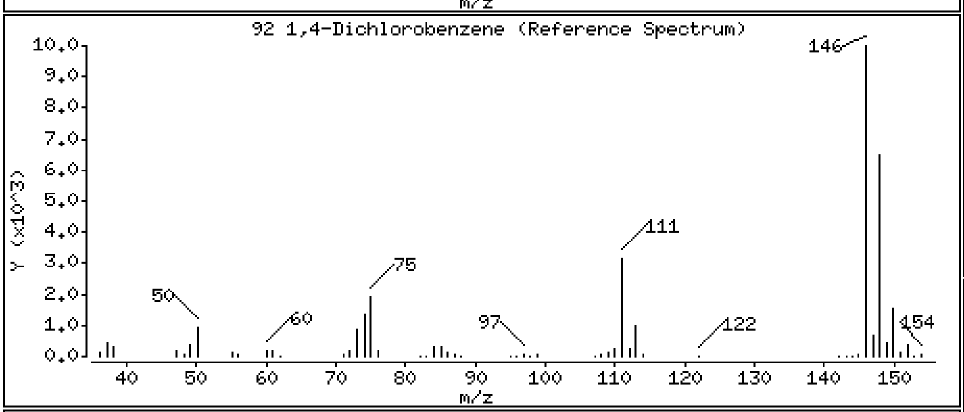
92 1,4-Dichlorobenzene Concentration: 47.0 ppb Review Code:

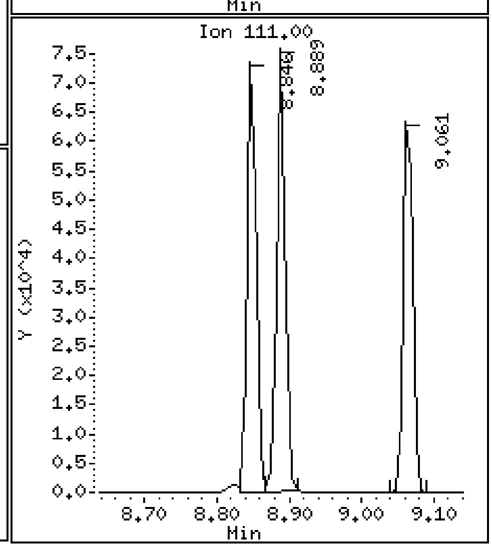


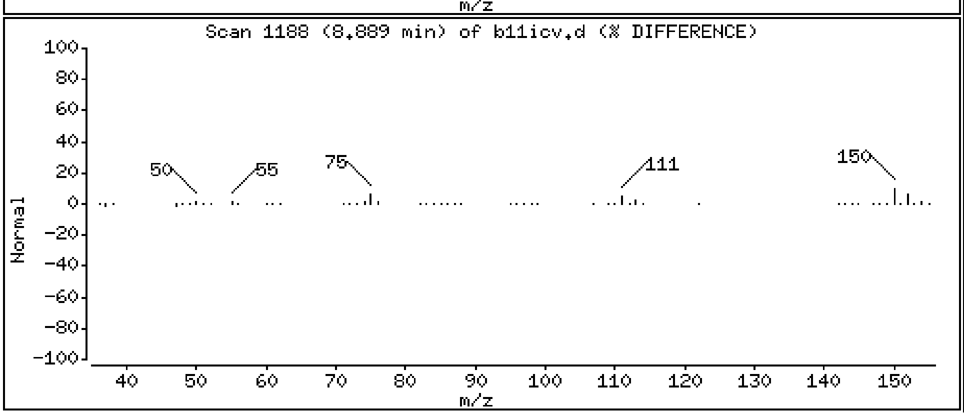












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

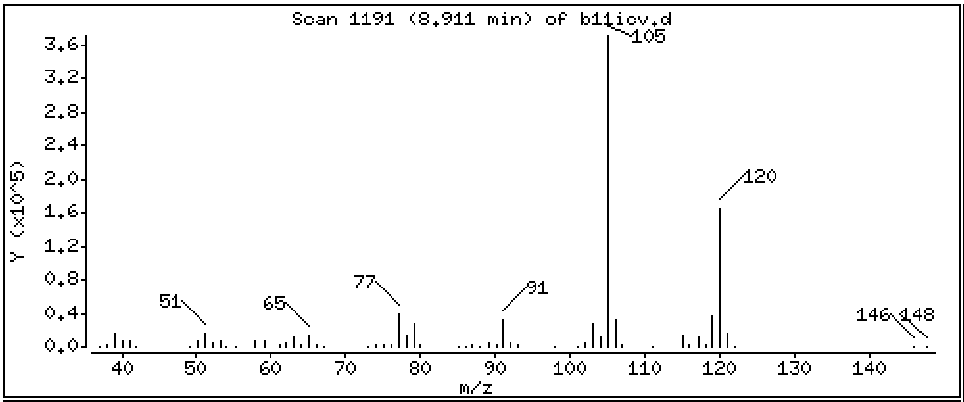
Column phase: DB-624

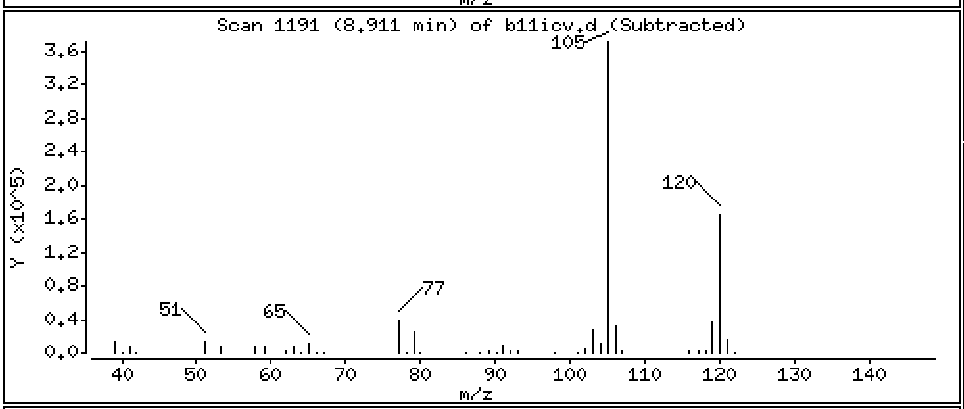
Column diameter: 0.18

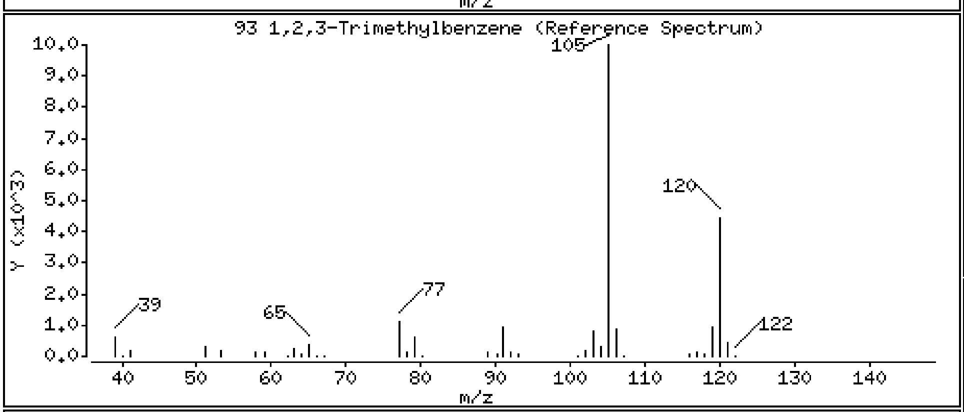
93 1,2,3-Trimethylbenzene

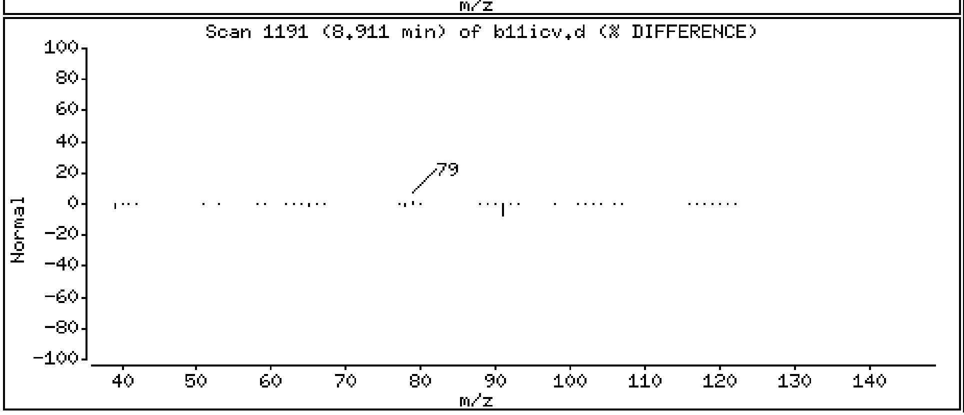
Concentration: 49.0 ppb

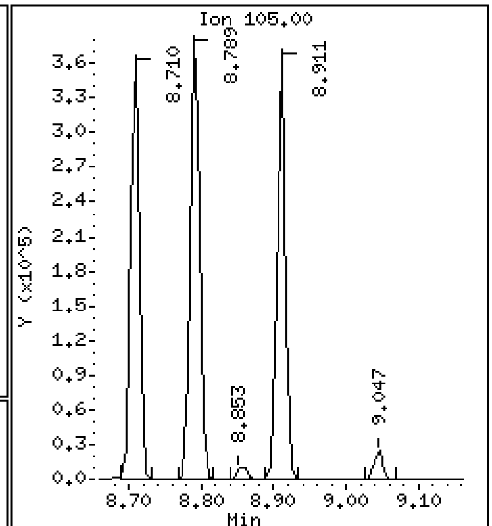
Review Code:

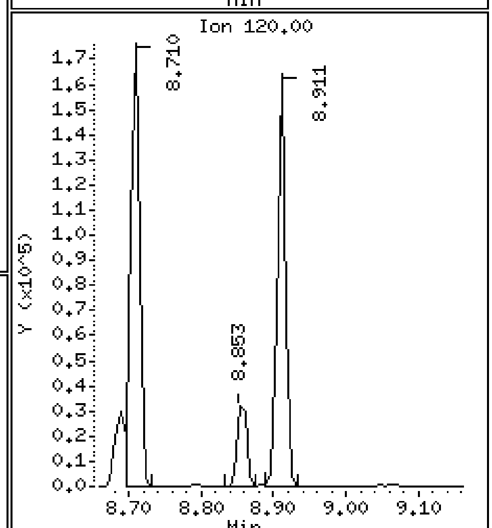


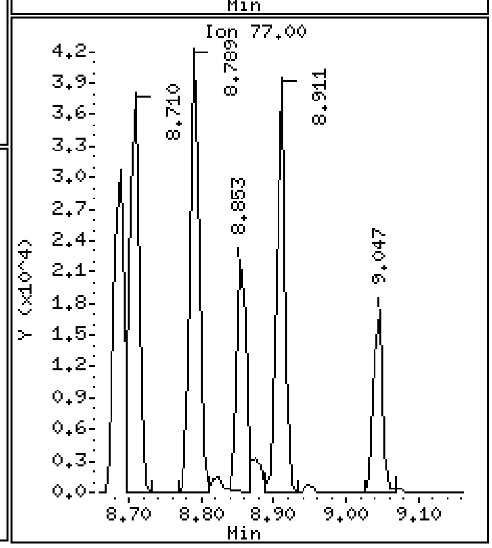












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

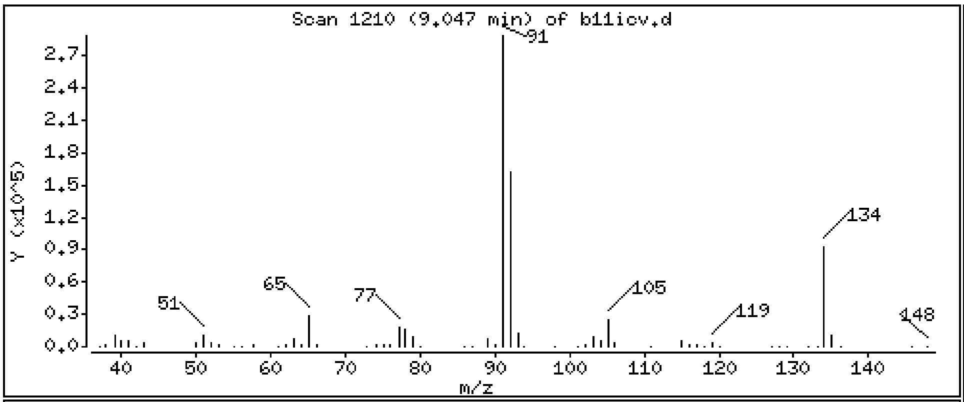
Column phase: DB-624

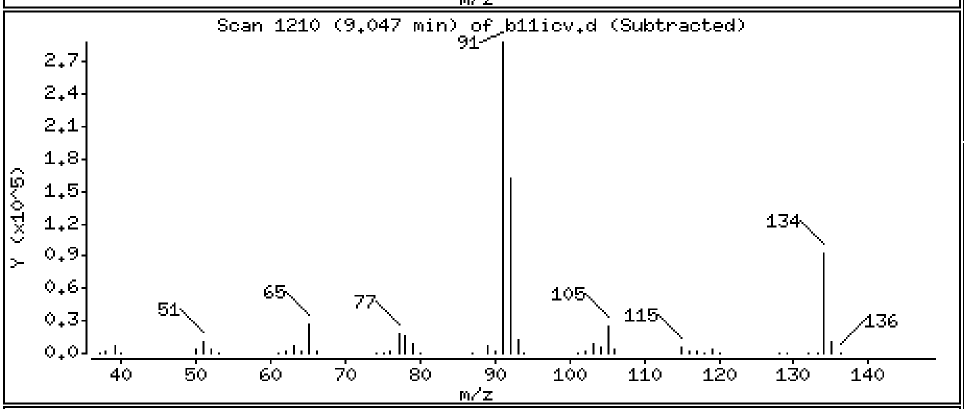
Column diameter: 0.18

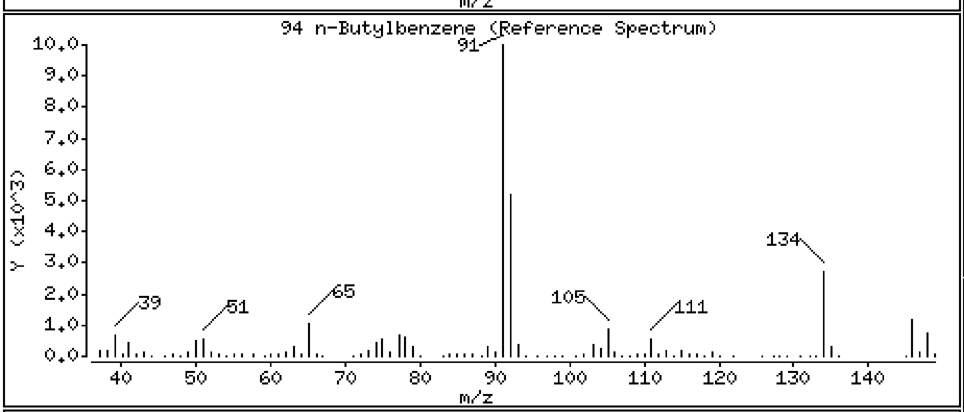
94 n-Butylbenzene

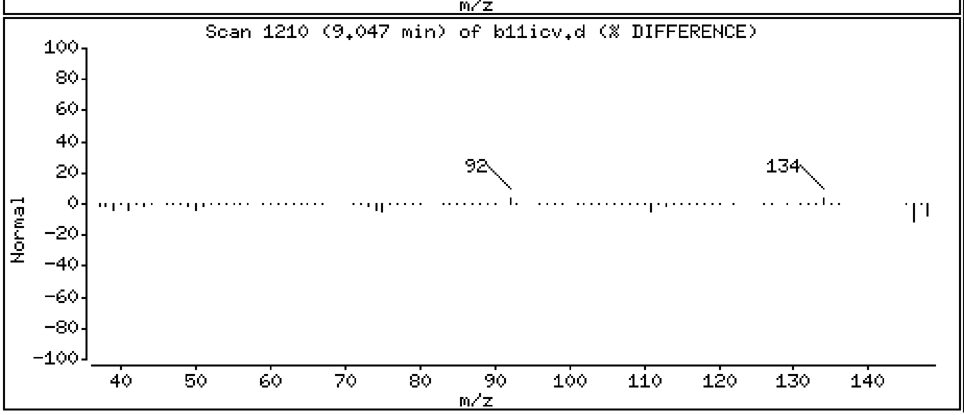
Concentration: 47.6 ppb

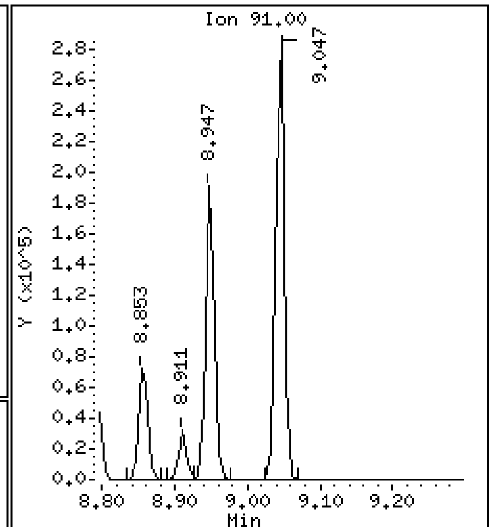
Review Code:

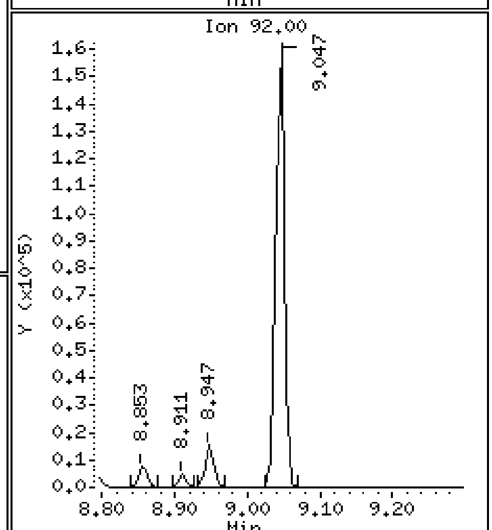


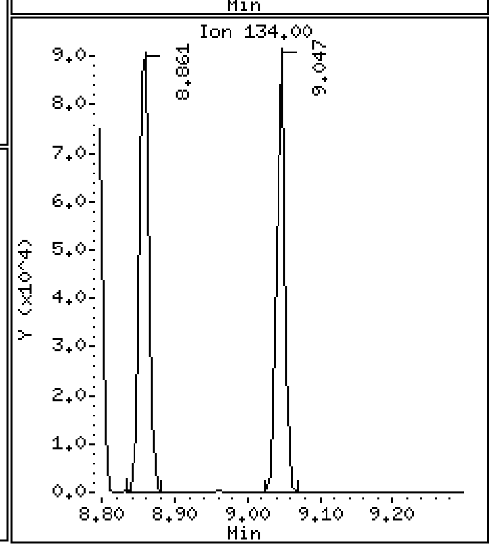












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

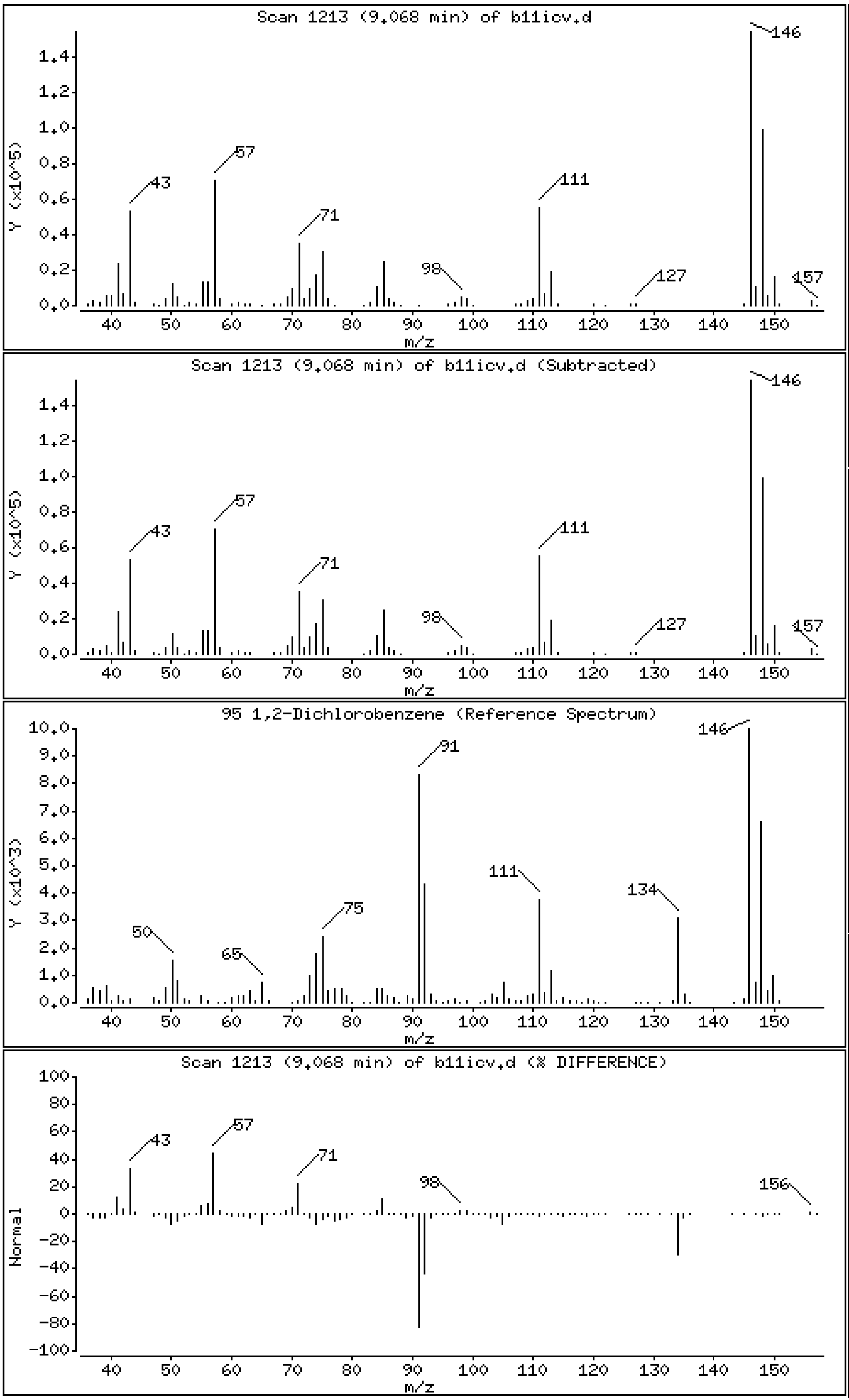
Column phase: DB-624

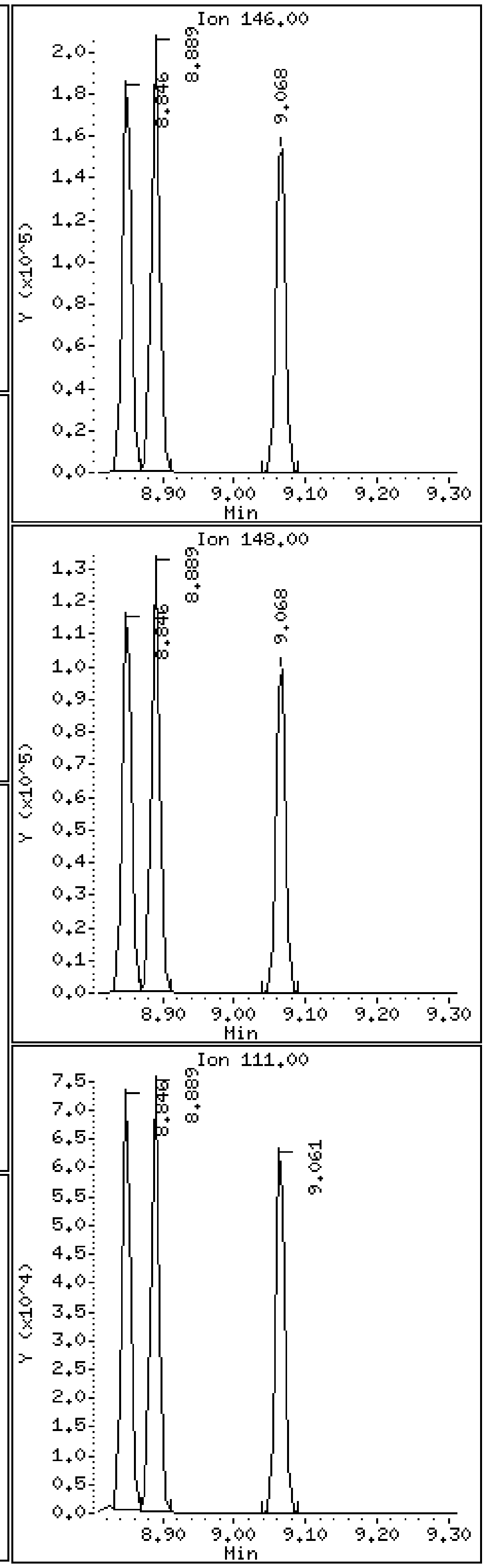
Column diameter: 0.18

95 1,2-Dichlorobenzene

Concentration: 45.3 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

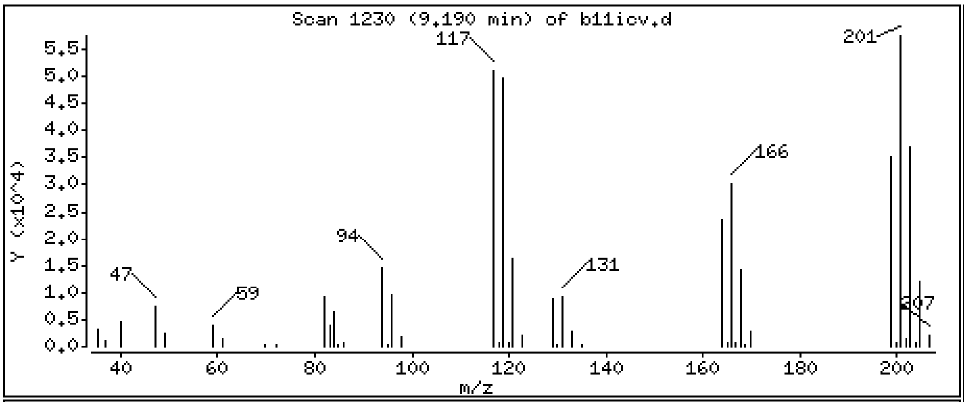
Client ID: 8260-ICV Instrument: 50mvcb.i

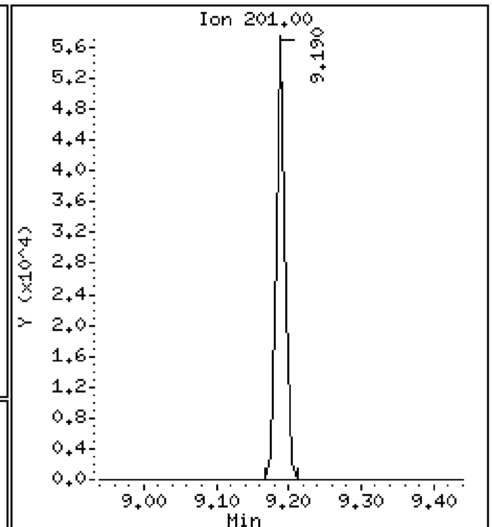
Sample Info: 8260-ICV,335770:0

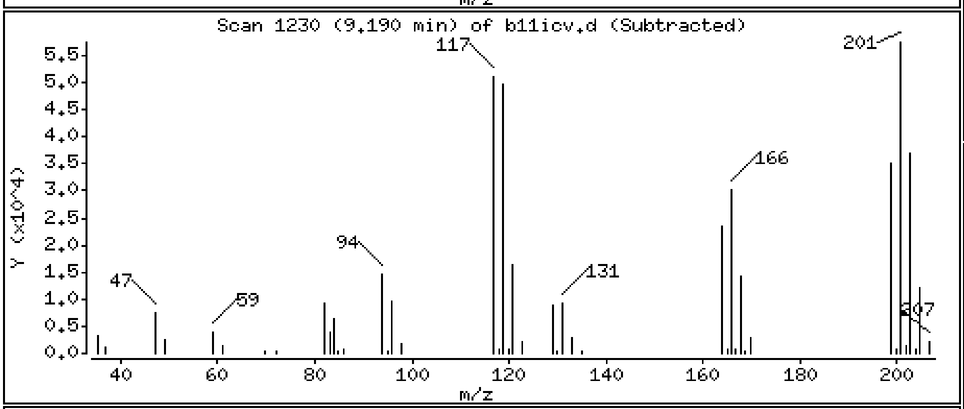
Purge Volume: 5.0 Operator: DAP

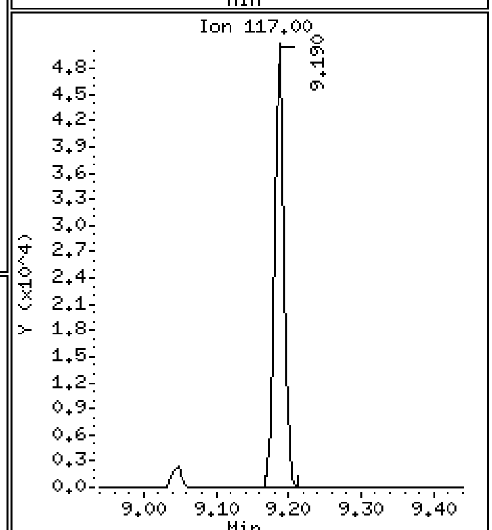
Column phase: DB-624 Column diameter: 0.18

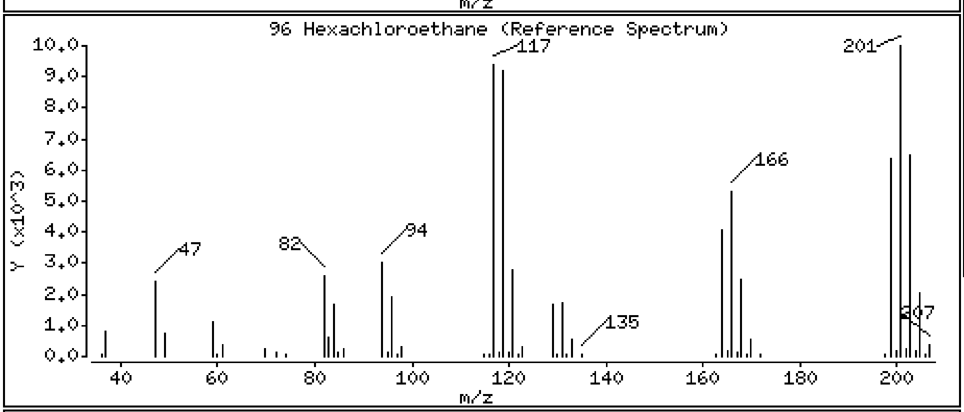
96 Hexachloroethane Concentration: 50.4 ppb Review Code:

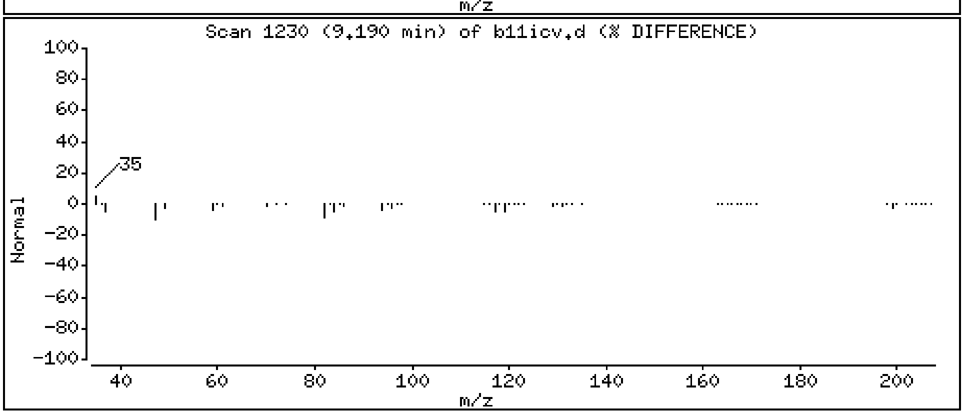












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

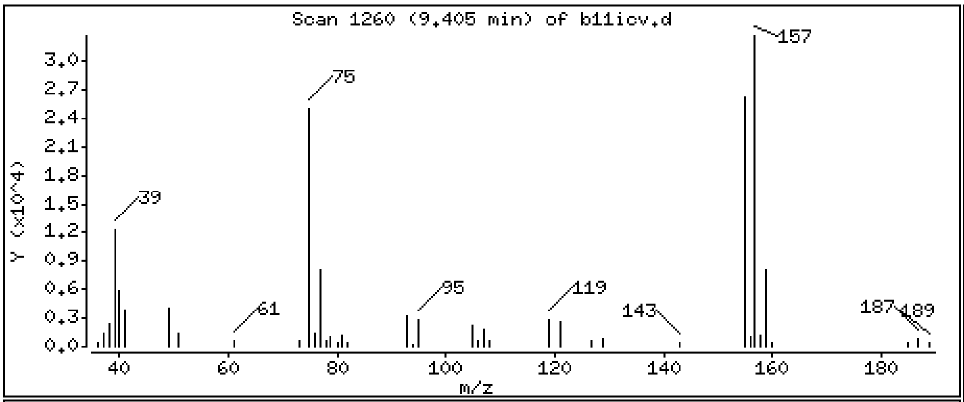
Column phase: DB-624

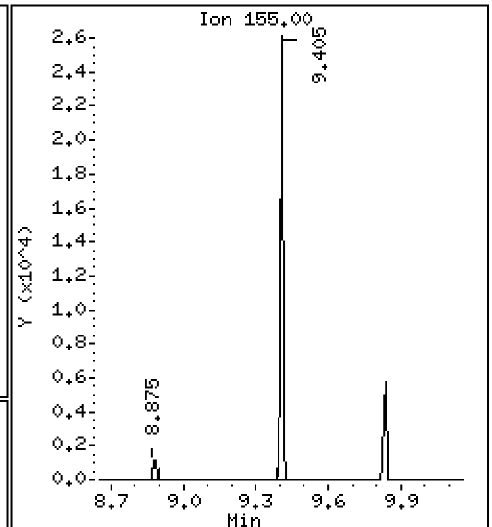
Column diameter: 0.18

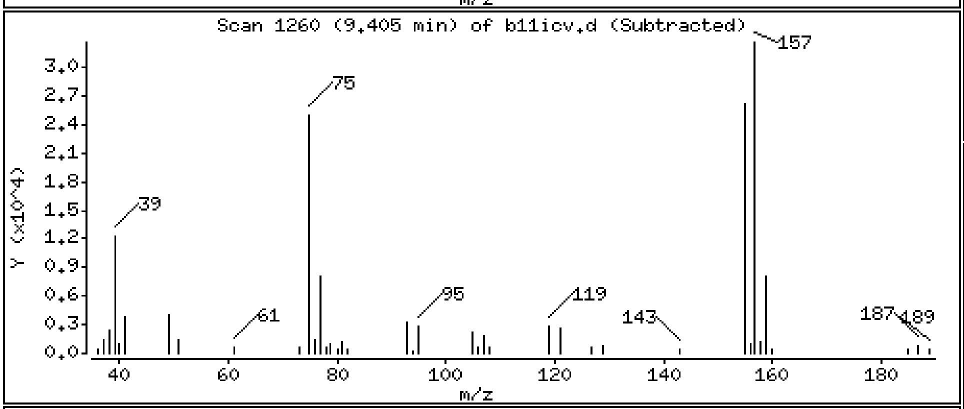
97 1,2-Dibromo-3-chloropropane

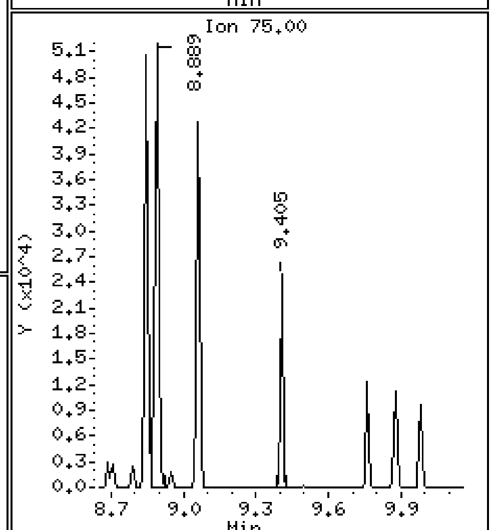
Concentration: 49.5 ppb

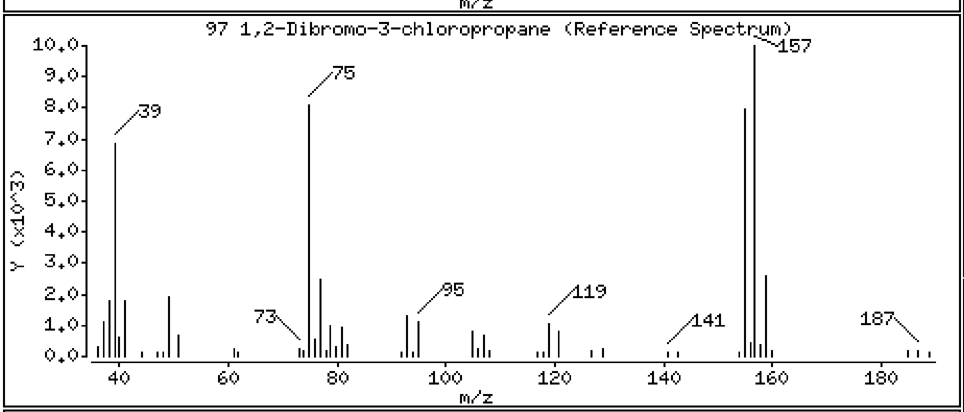
Review Code: WP

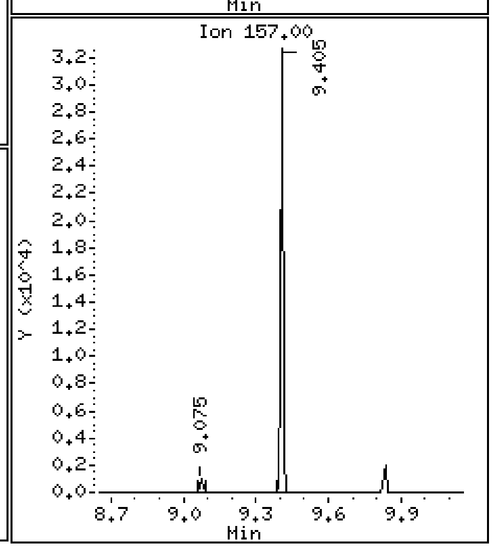


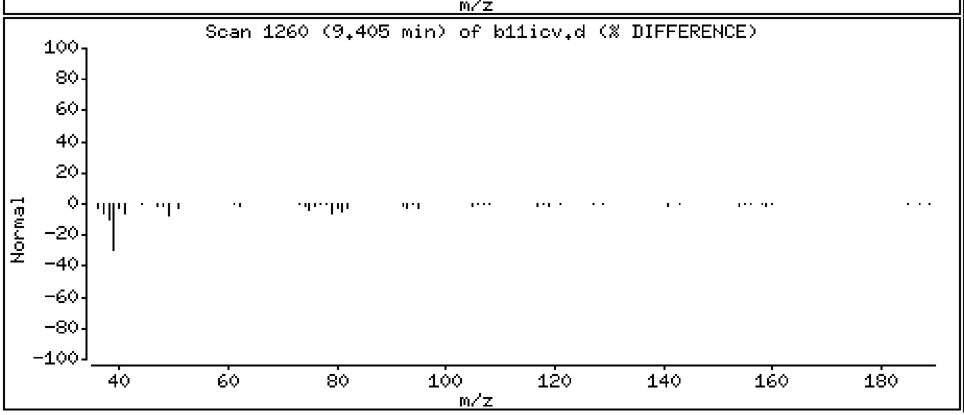












Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

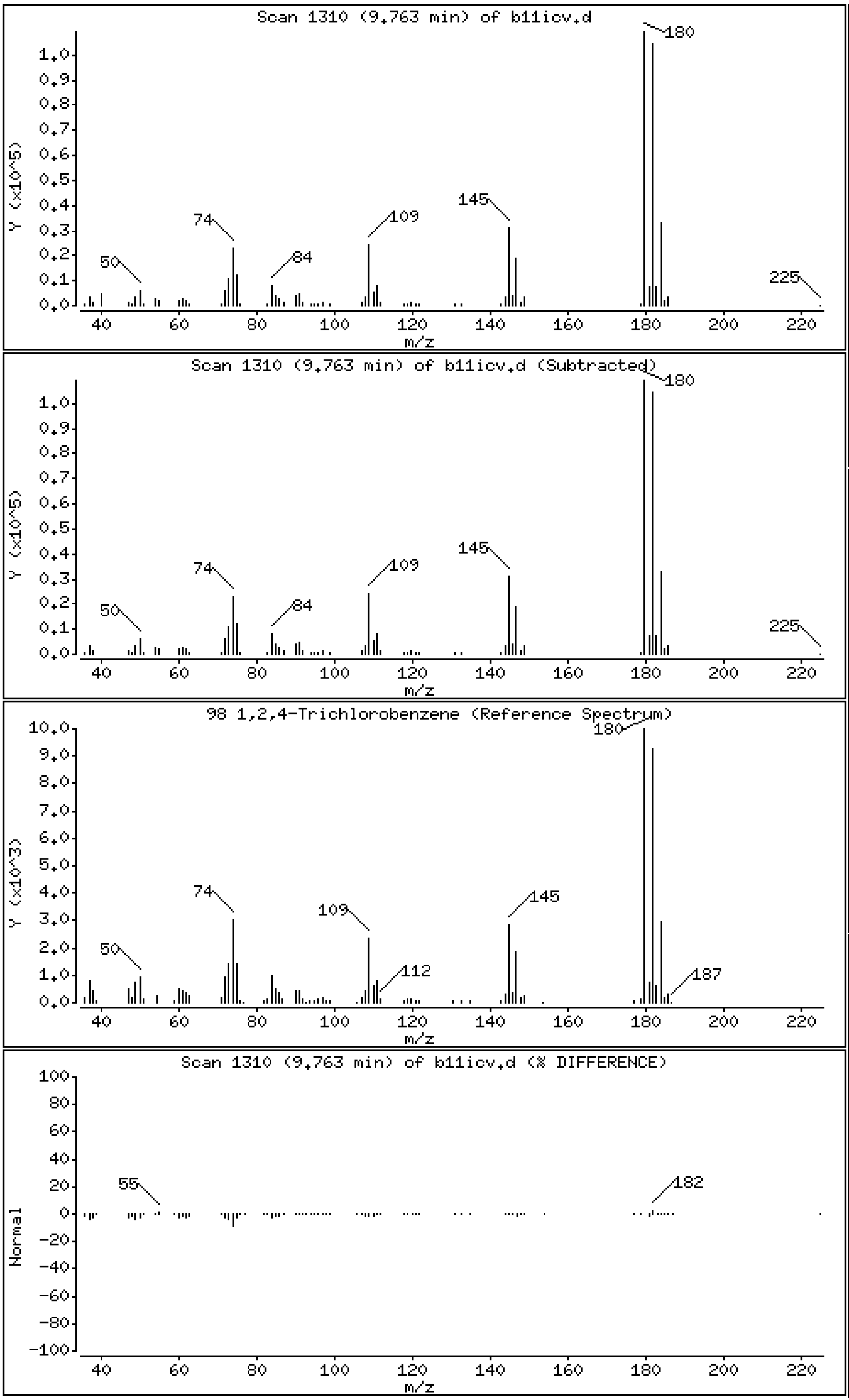
Column phase: DB-624

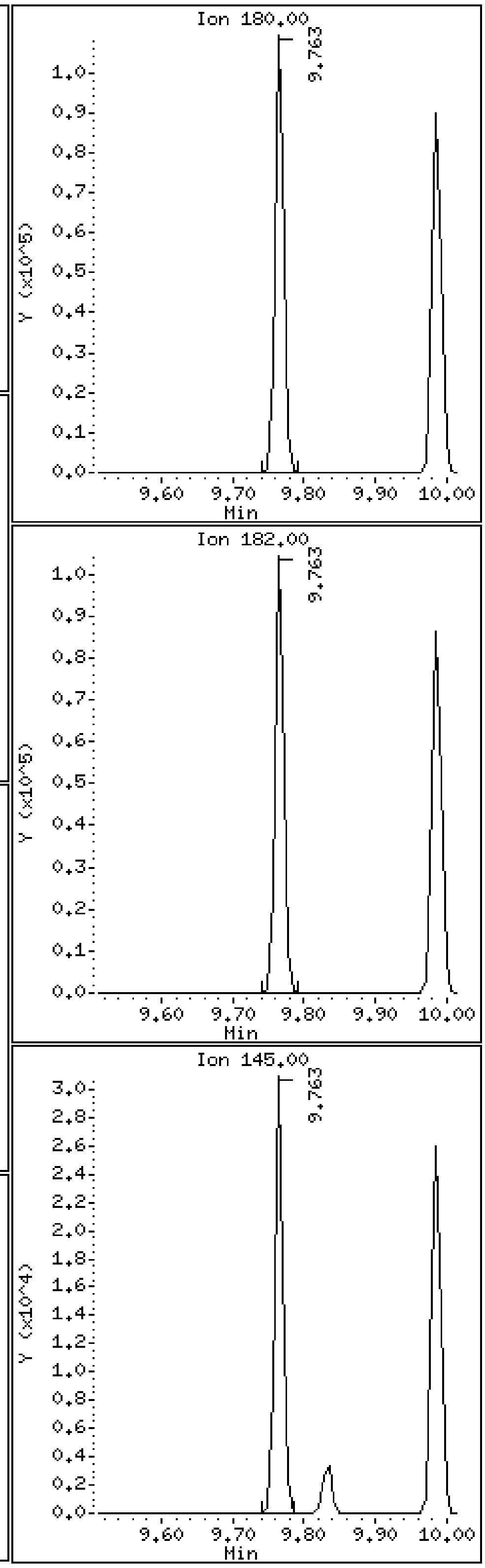
Column diameter: 0.18

98 1,2,4-Trichlorobenzene

Concentration: 50.7 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

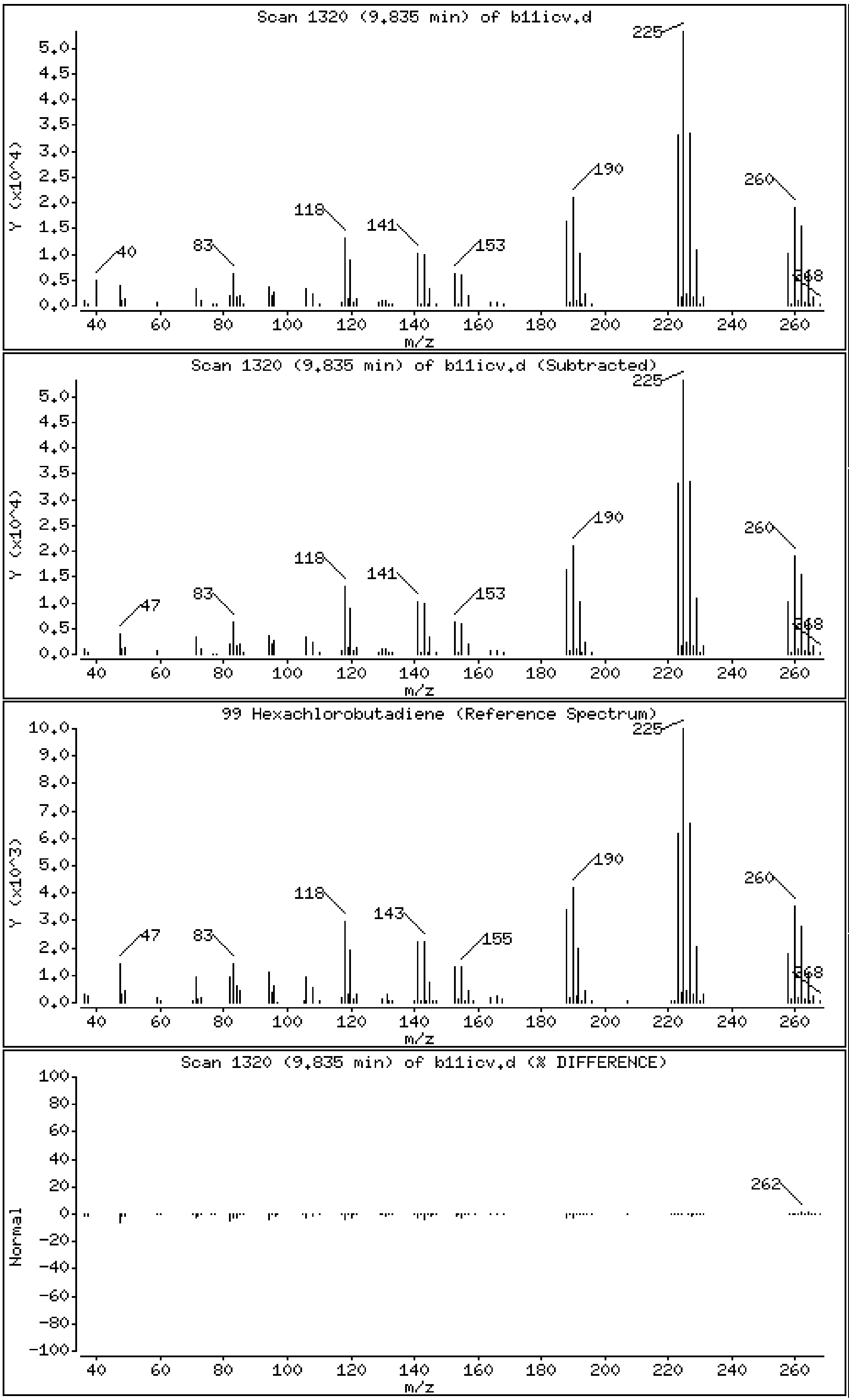
Column phase: DB-624

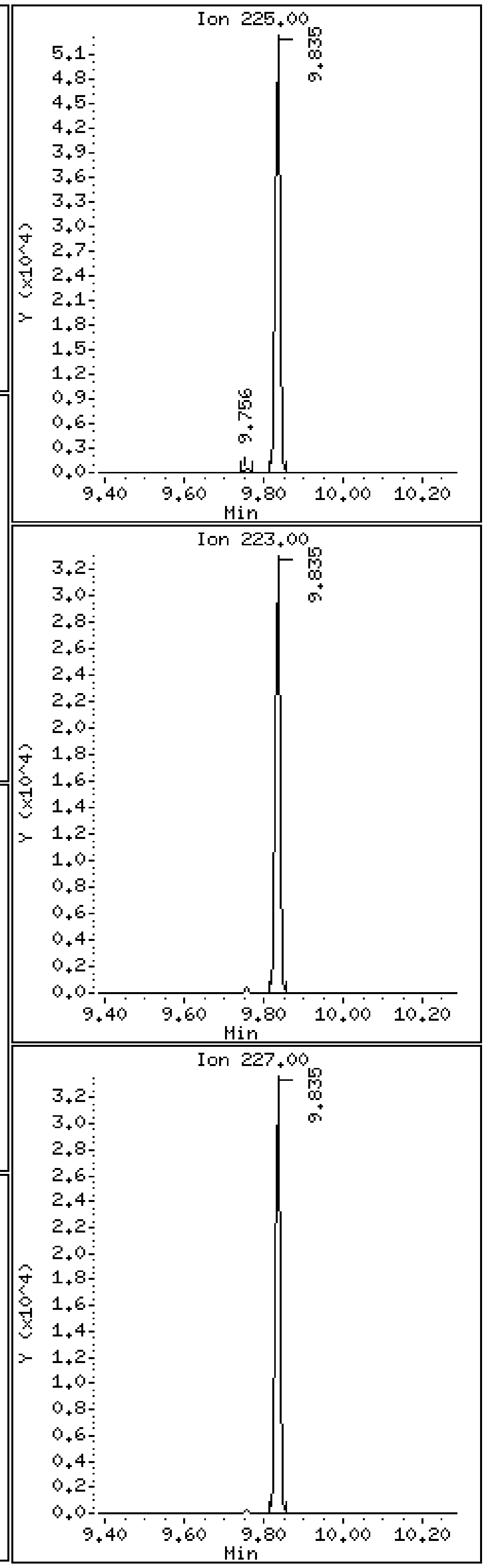
Column diameter: 0.18

99 Hexachlorobutadiene

Concentration: 50.6 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

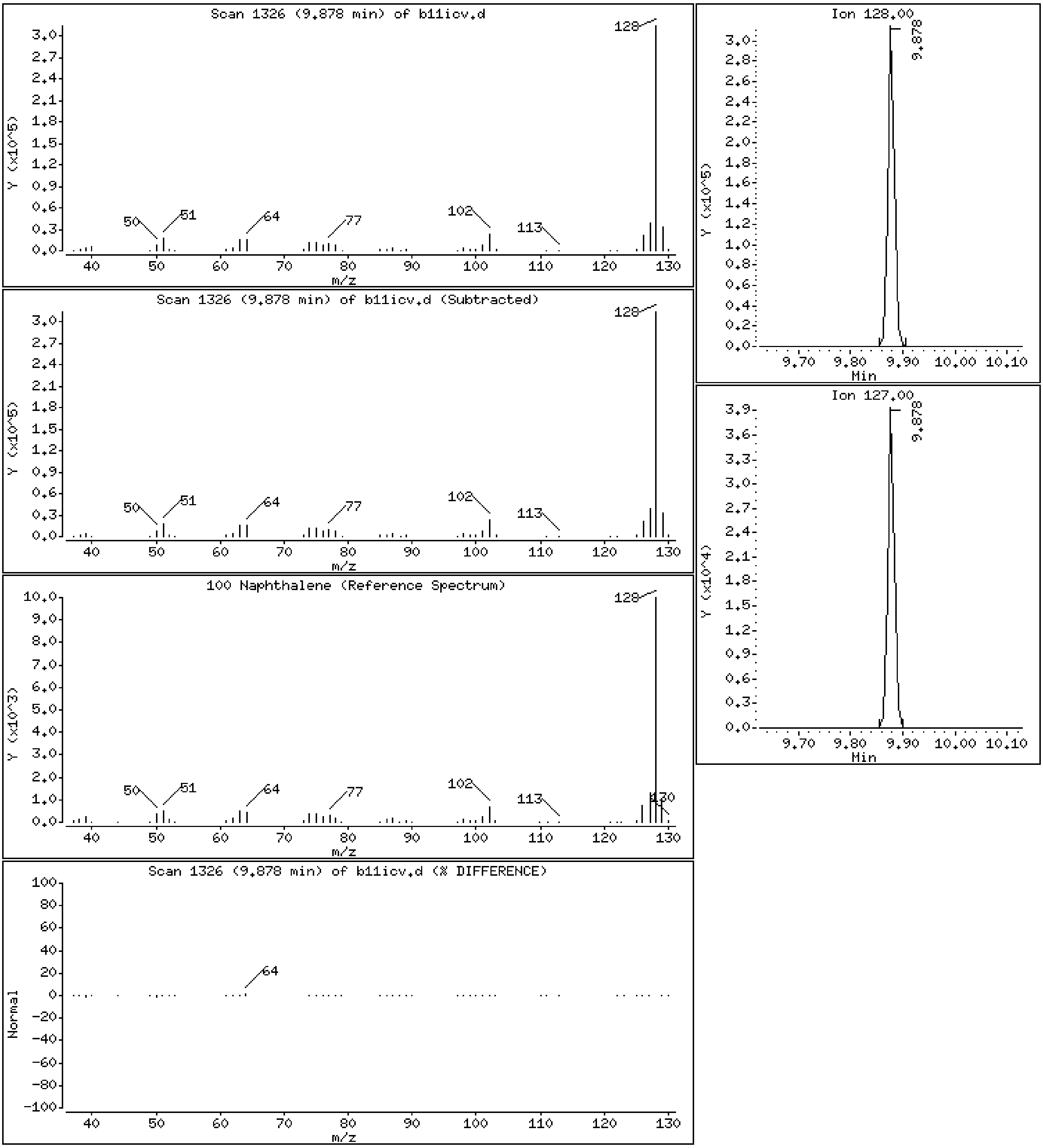
Column phase: DB-624

Column diameter: 0.18

100 Naphthalene

Concentration: 51.8 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d

Date : 16-JAN-2023 19:47

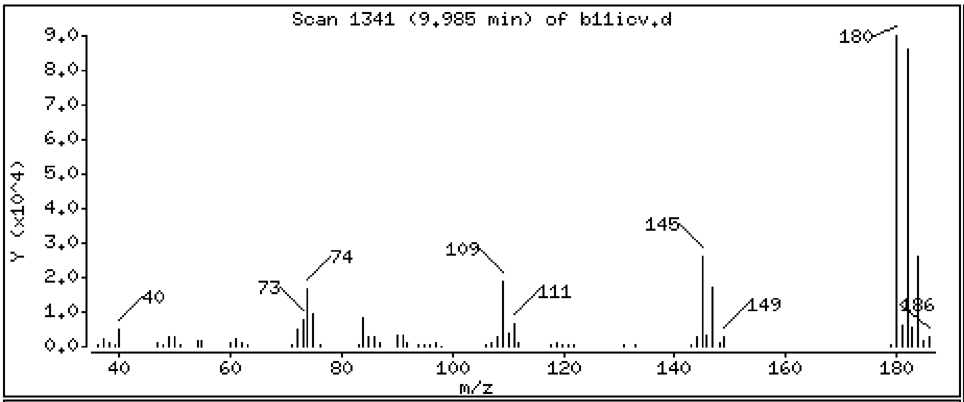
Client ID: 8260-ICV Instrument: 50mvcb.i

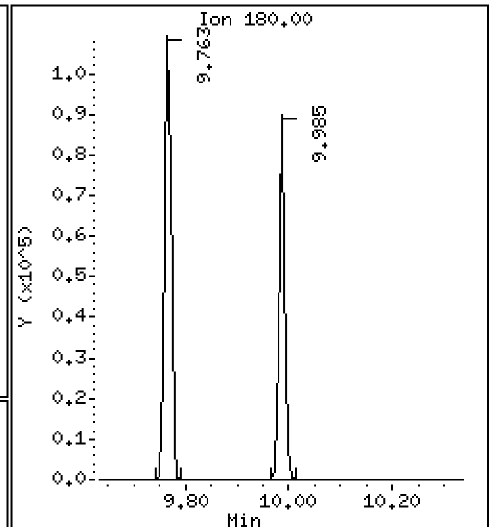
Sample Info: 8260-ICV,335770:0

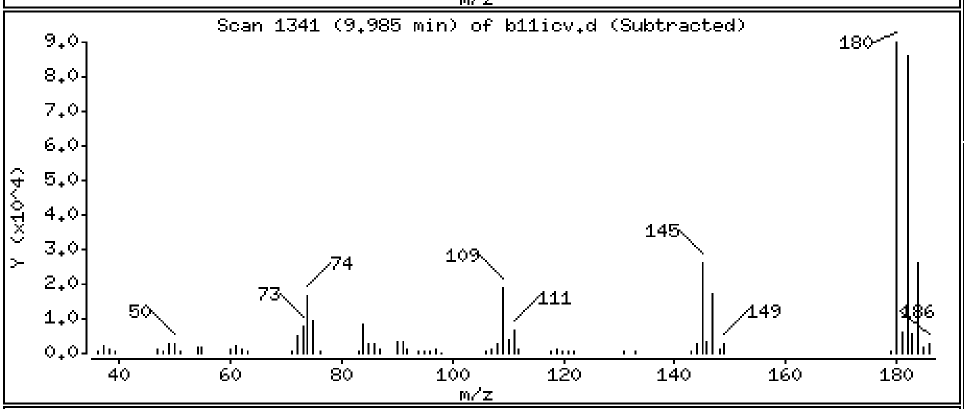
Purge Volume: 5.0 Operator: DAP

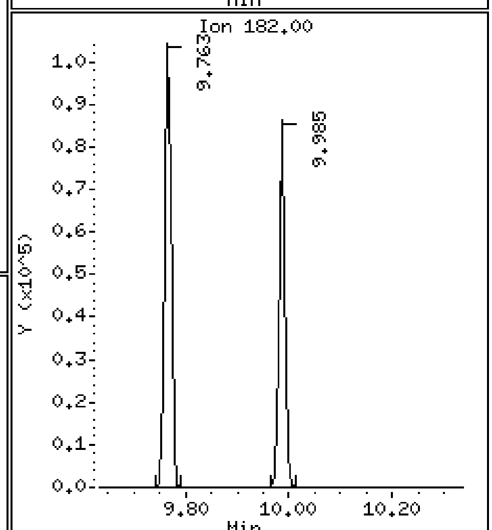
Column phase: DB-624 Column diameter: 0.18

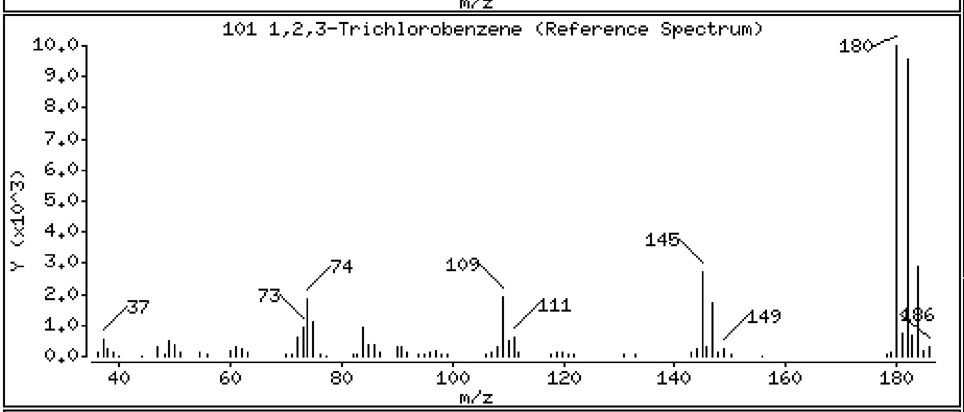
101 1,2,3-Trichlorobenzene Concentration: 51.2 ppb Review Code:

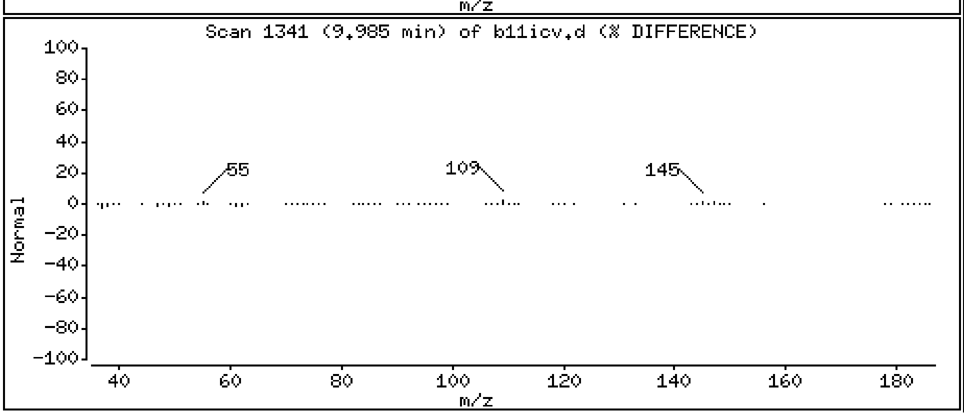


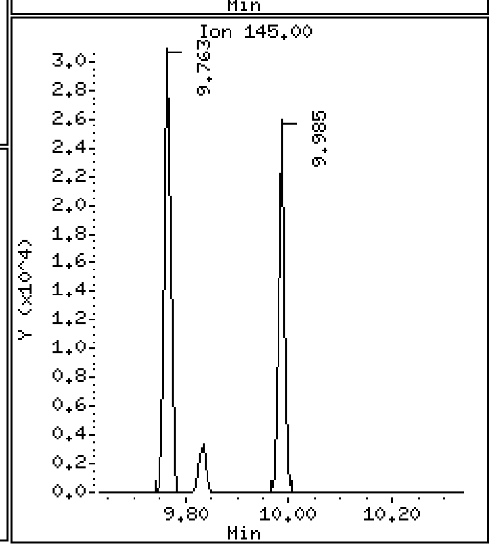












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

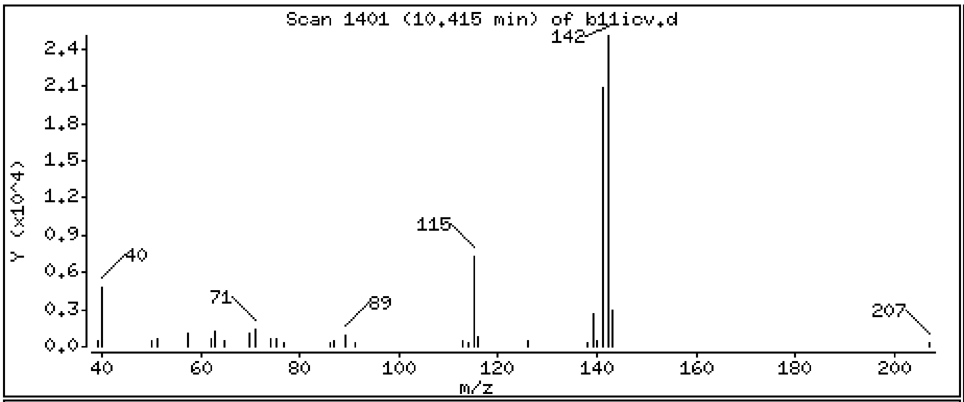
Column phase: DB-624

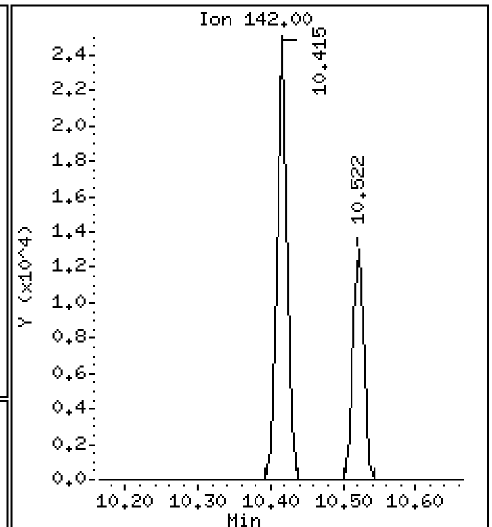
Column diameter: 0.18

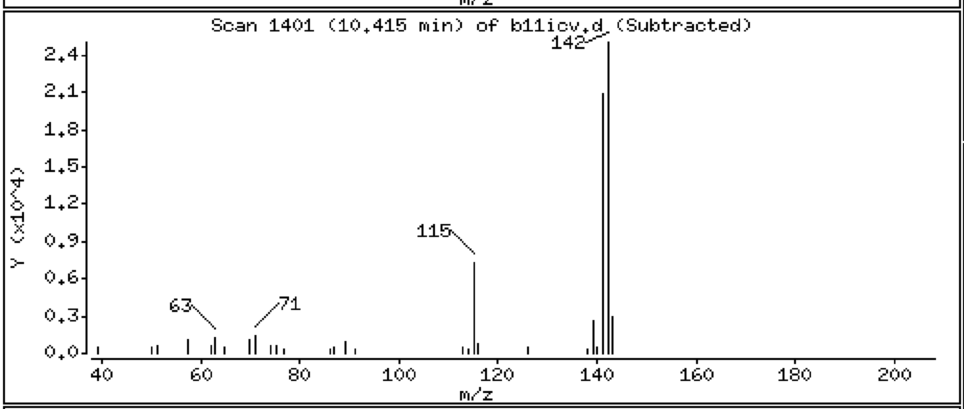
102 2,methyl-naphthalene

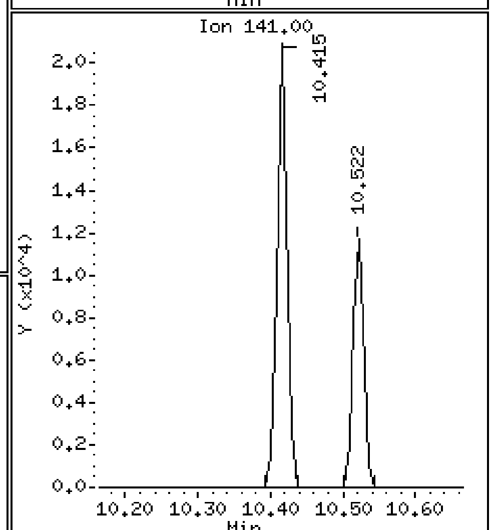
Concentration: 63.2 ppb

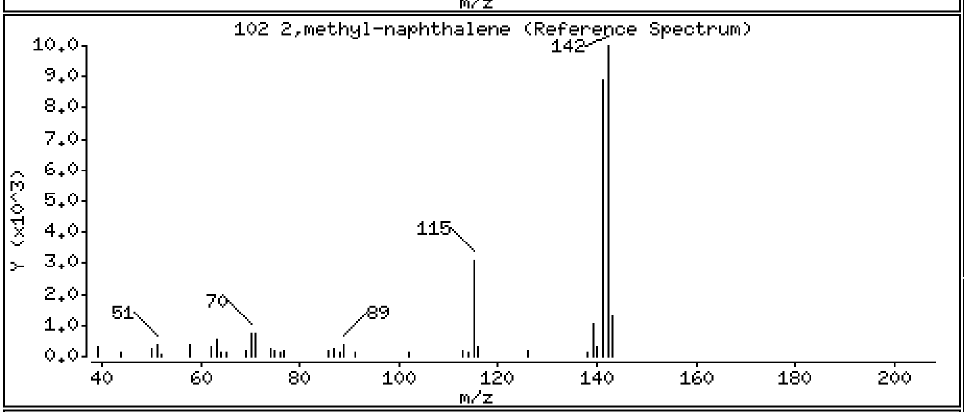
Review Code:

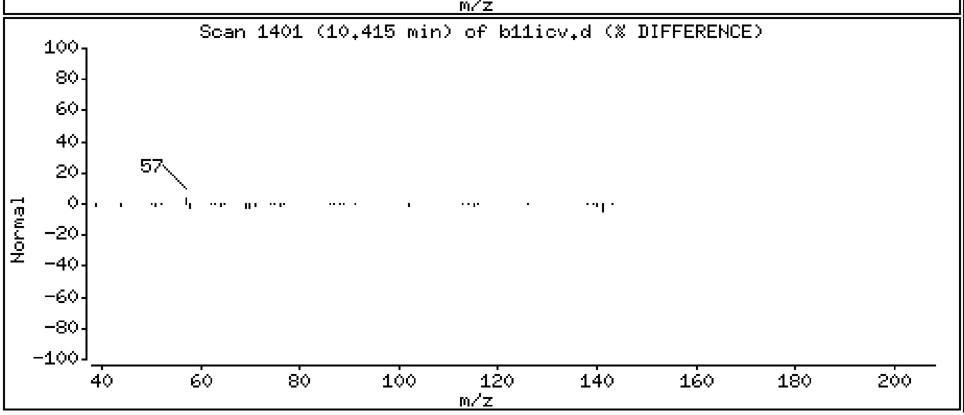


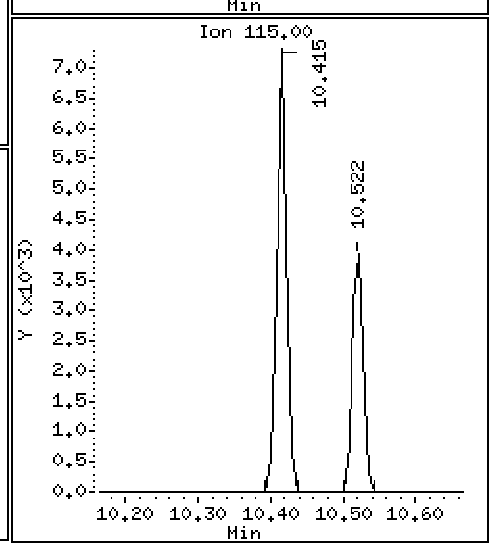












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Date : 16-JAN-2023 19:47

Client ID: 8260-ICV

Instrument: 50mvcb.i

Sample Info: 8260-ICV,335770:0

Purge Volume: 5.0

Operator: DAP

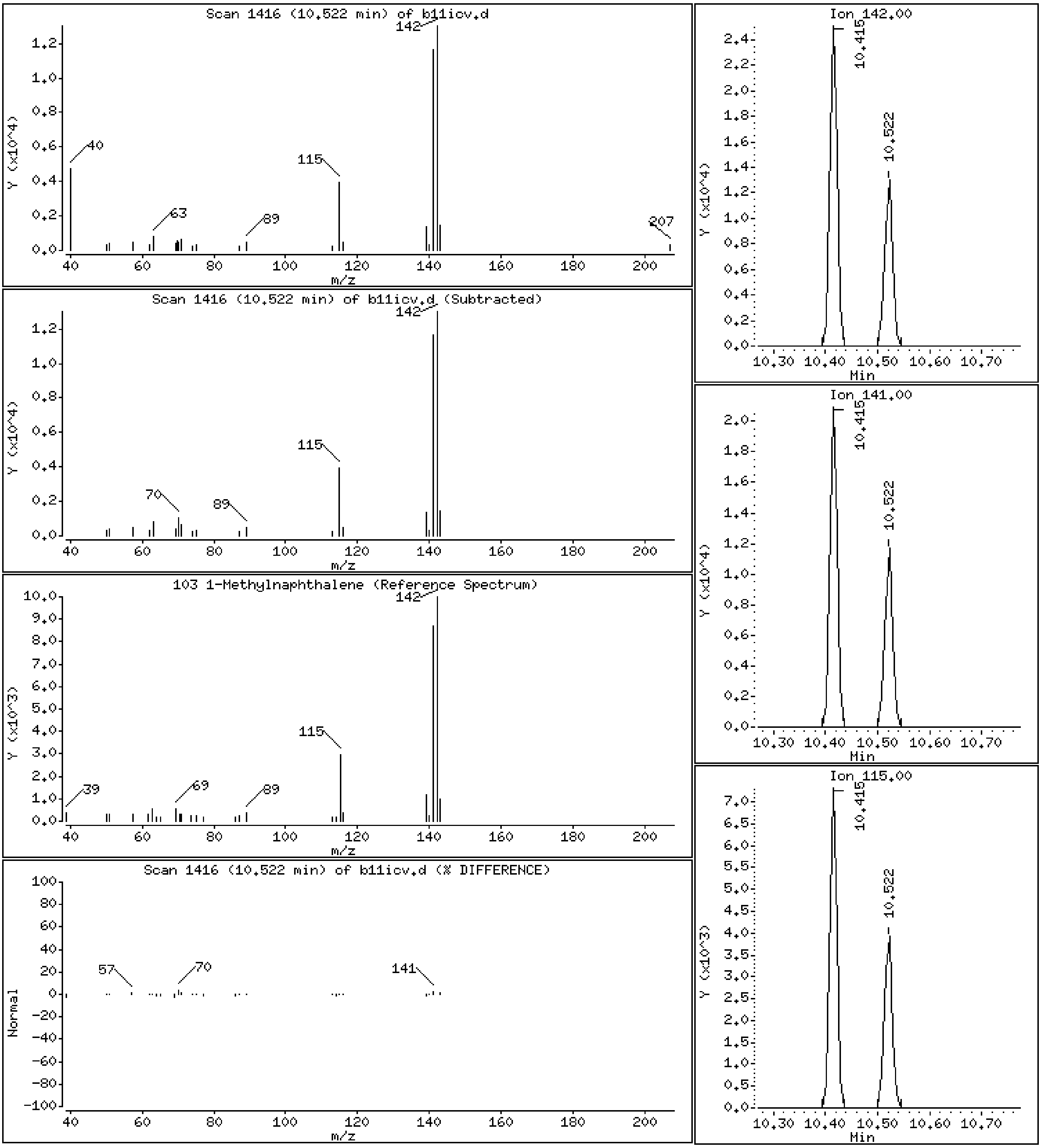
Column phase: DB-624

Column diameter: 0.18

103 1-Methylnaphthalene

Concentration: 60.2 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b11icv.d Page 102

Date : 16-JAN-2023 19:47

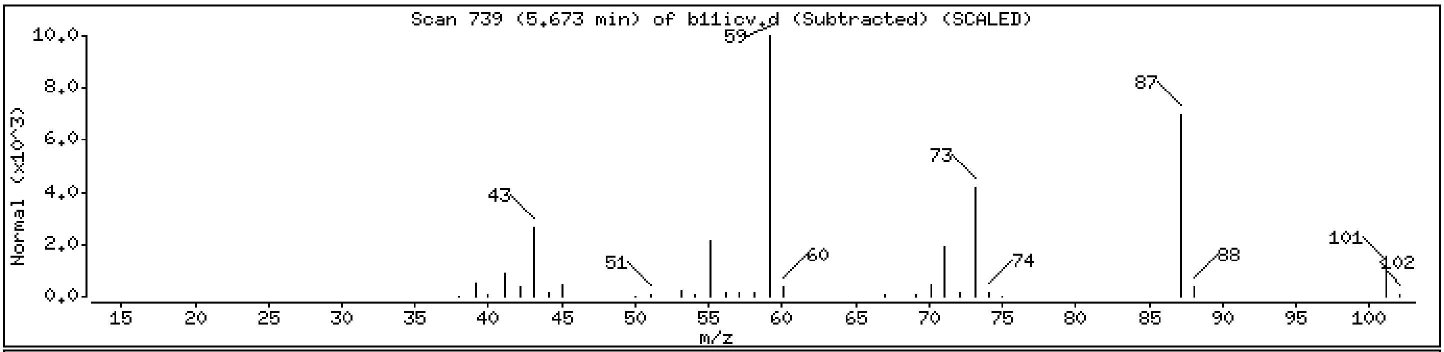
Client ID: 8260-ICV Instrument: 50mvcb.i

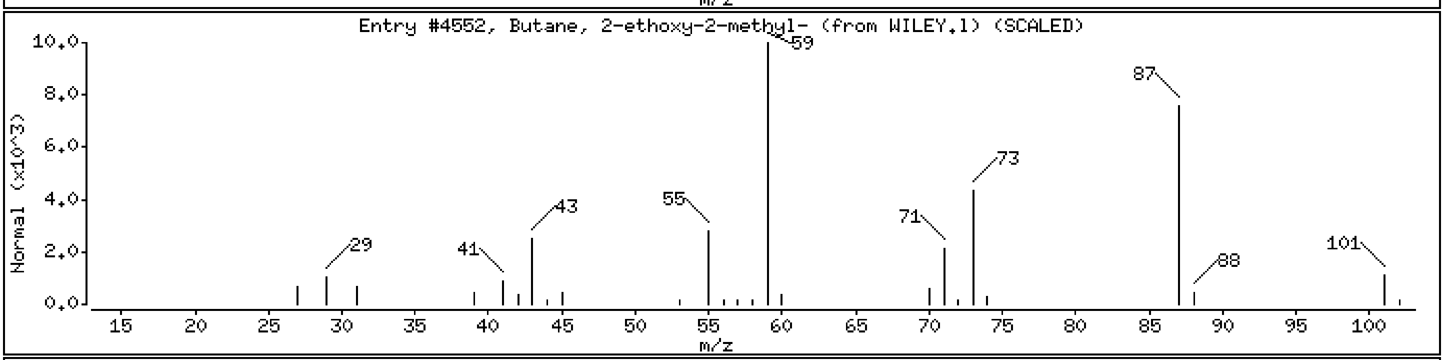
Sample Info: 8260-ICV,335770:0

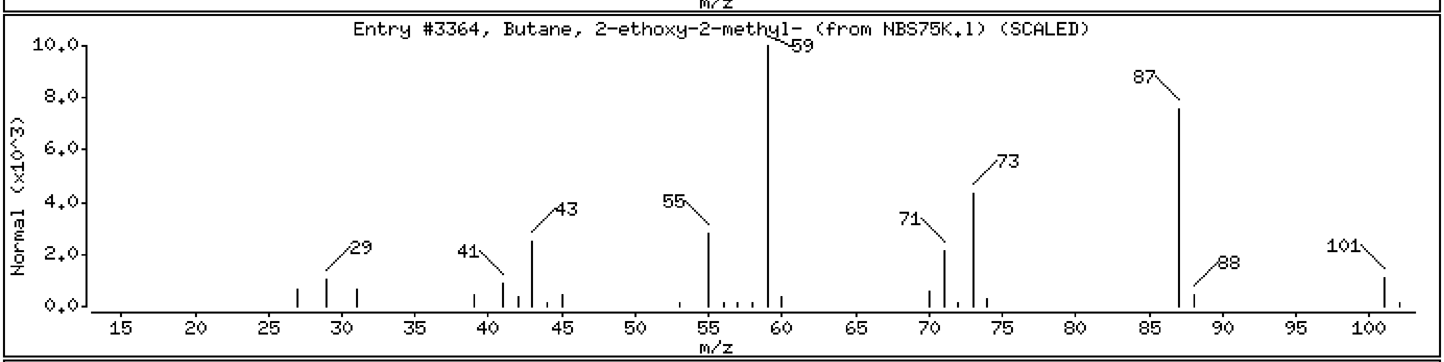
Purge Volume: 5.0 Operator: DAP

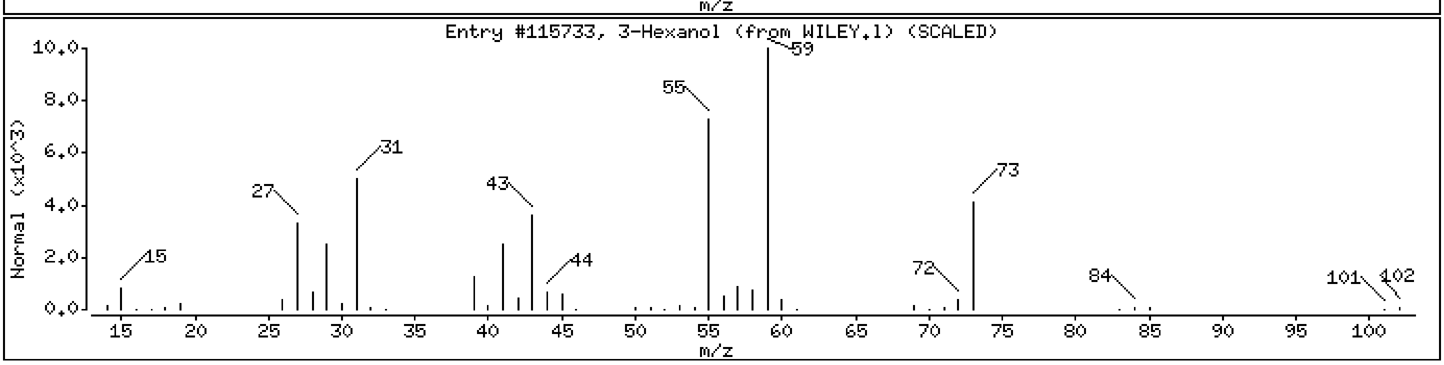
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-ethoxy-2-methyl-	919-94-8	WILEY.l	4552	90	C7H16O	116
Butane, 2-ethoxy-2-methyl-	919-94-8	NBS75K.l	3364	90	C7H16O	116
3-Hexanol	623-37-0	WILEY.l	115733	38	C6H14O	102









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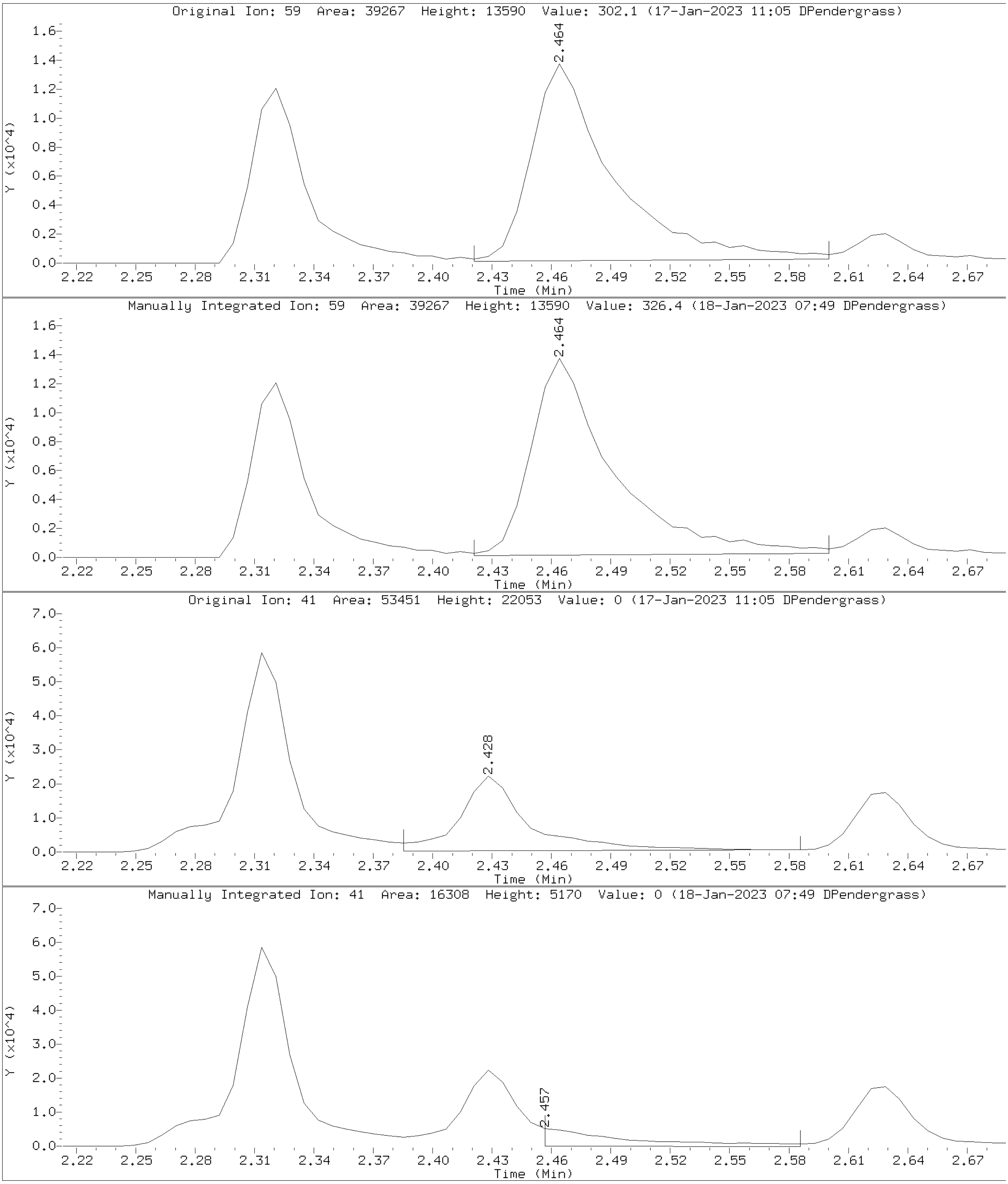
Injection Date: 16-JAN-2023 19:47
Instrument: 50mvcb.i
Lab Sample ID: 8260-ICV

Compound: tert-Butyl Alcohol   Review Code: LT
CAS Number: 75-65-0



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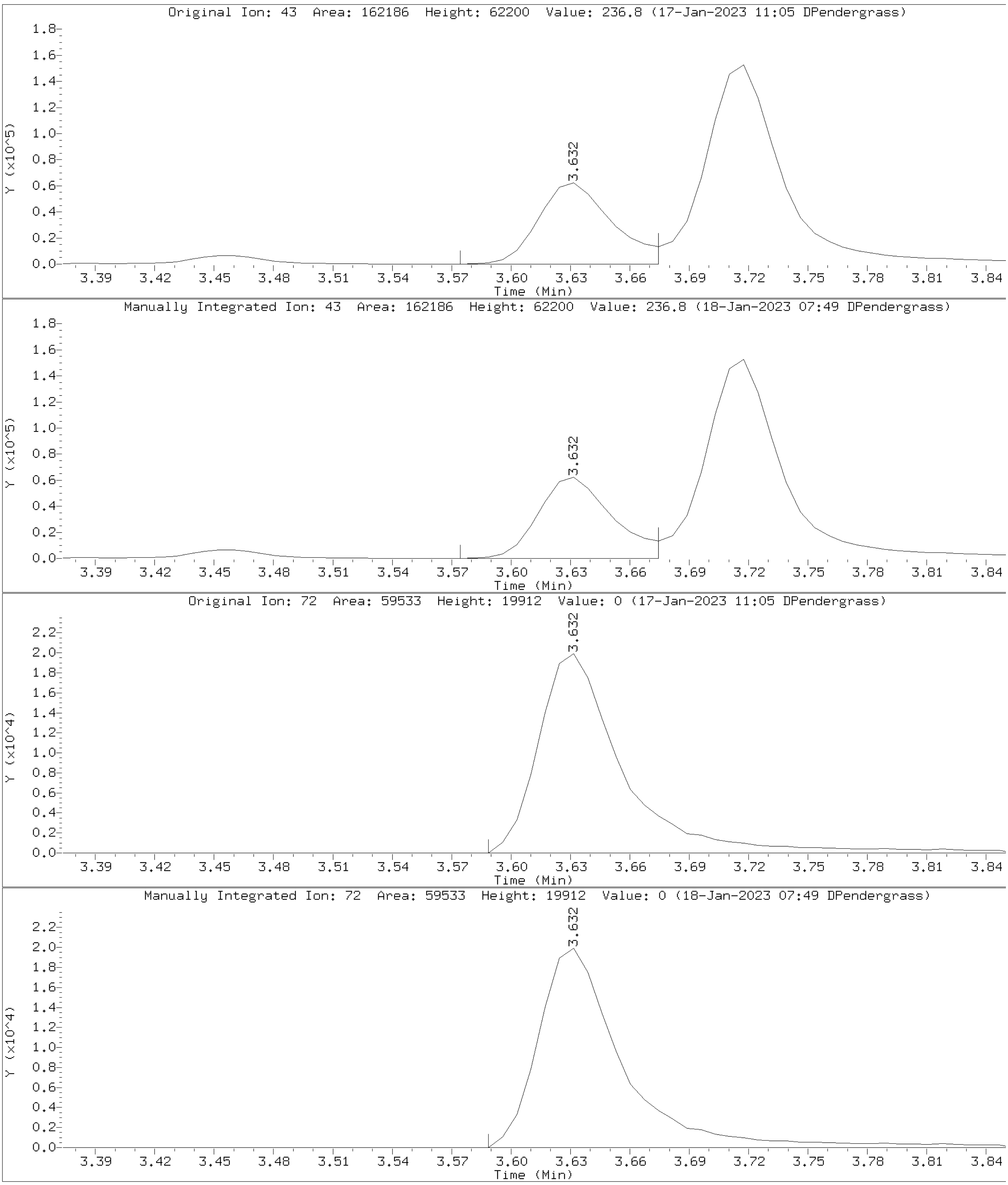
Injection Date: 16-JAN-2023 19:47
Instrument: 50mvcb.i
Lab Sample ID: 8260-ICV

Compound: 2-Butanone   Review Code: NI
CAS Number: 78-93-3



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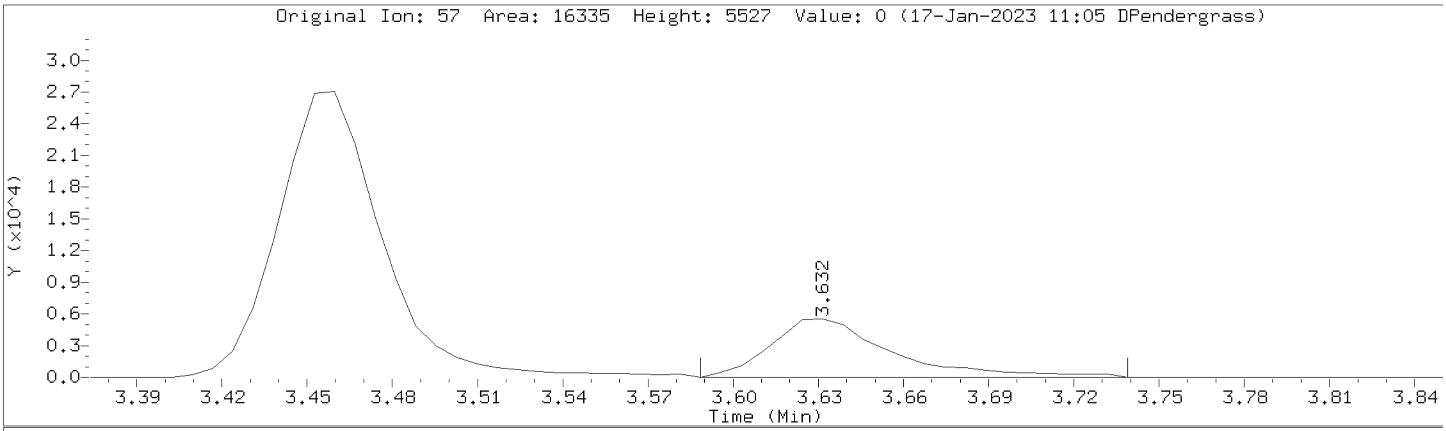
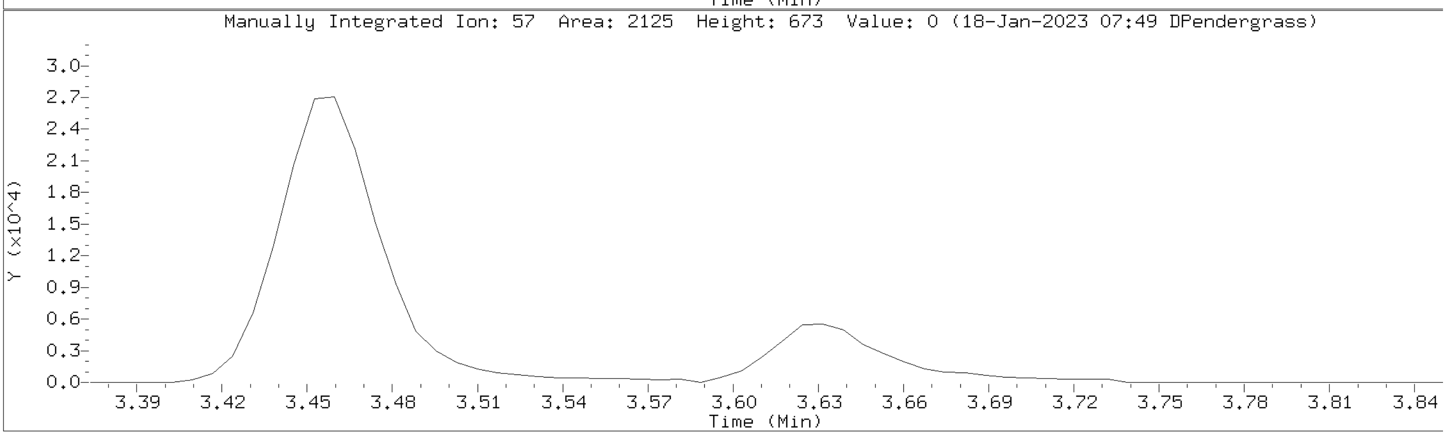
Instrument: 50mvcb.i
Lab Sample ID: 8260-ICV





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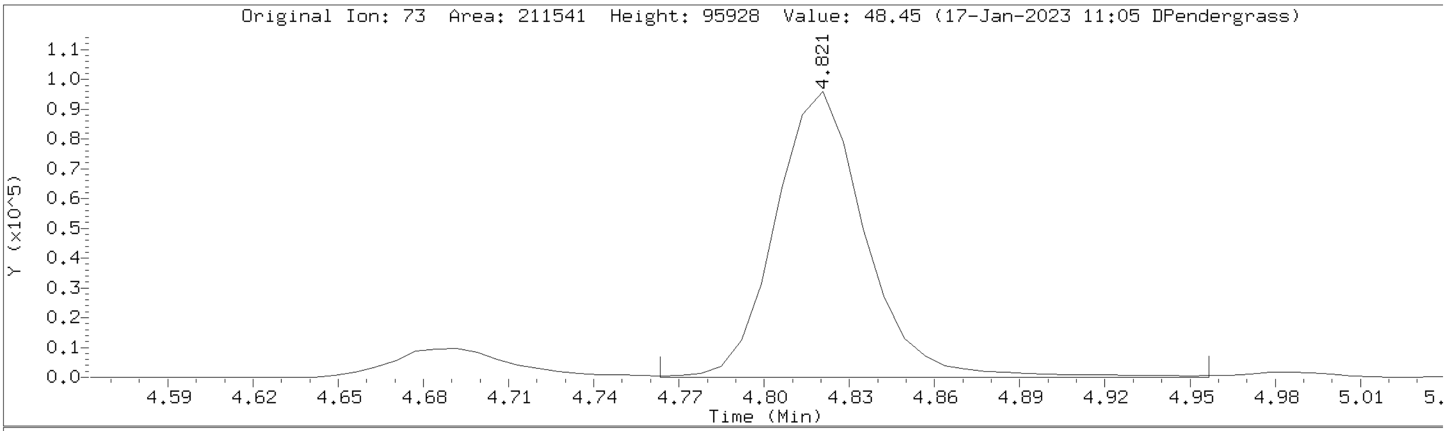
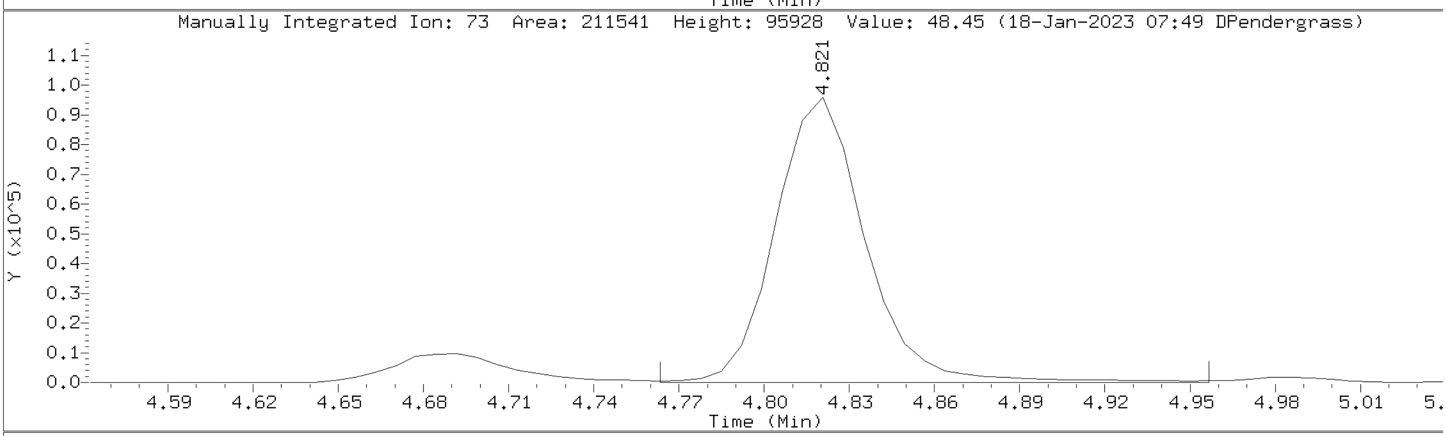
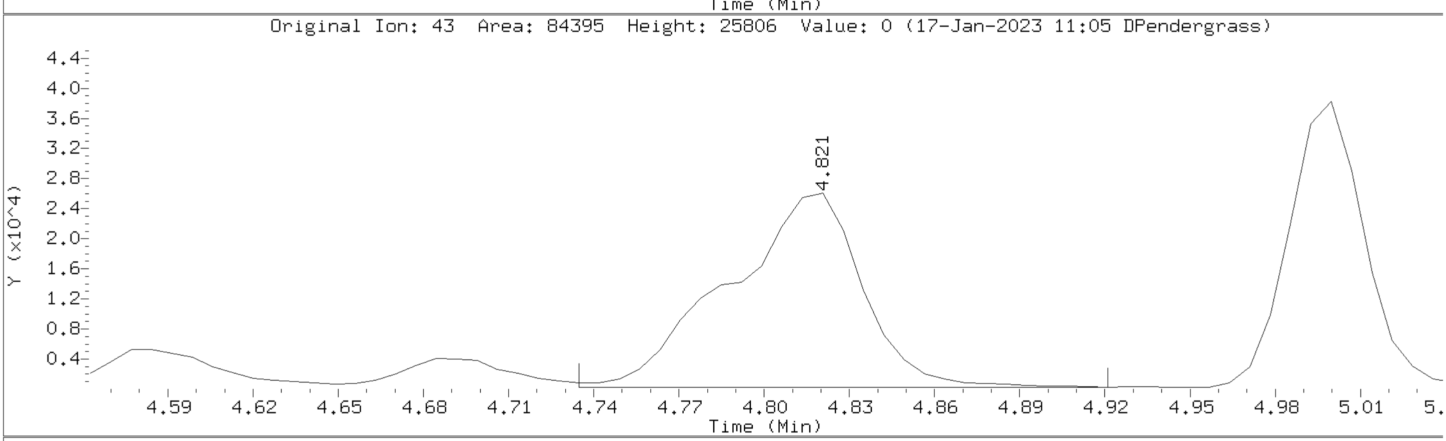
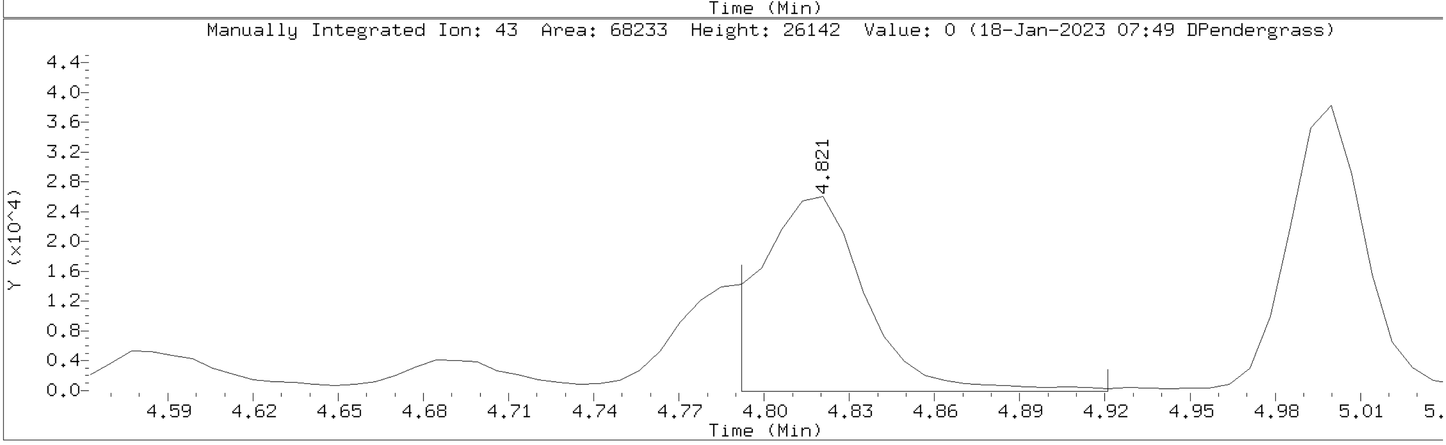
Injection Date: 16-JAN-2023 19:47
Instrument: 50mvcb.i
Lab Sample ID: 8260-ICV

Compound: tert-Amylmethyl ether   Review Code: LT
CAS Number: 994-05-8









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b02ccv.d
Lab Smp Id: 8260-CCV Client Smp ID: 8260-CCV
Inj Date : 24-JAN-2023 13:31
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 8260-ccv,336766:0
Misc Info : 166064
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 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	1.174	1.174	(0.236)	56424	50.0000	40.8	
2 Chloromethane	50	1.303	1.303	(0.262)	37784	50.0000	27.6	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	46379	50.0000	30.9	
4 Bromomethane	94	1.532	1.532	(0.308)	22180	50.0000	31.7	
5 Chloroethane	64	1.590	1.590	(0.319)	27497	50.0000	32.2	
6 Trichlorofluoromethane	101	1.740	1.740	(0.350)	99385	50.0000	57.7	
7 Diethyl ether	74	1.912	1.912	(0.384)	46200	50.0000	57.0	
8 Acrolein	56	1.991	1.991	(0.400)	296936	1000.00	1170	
9 1,1,2trichlorotrifluoroethane	101	2.063	2.063	(0.414)	68738	50.0000	59.7	
10 1,1-Dichloroethene	96	2.070	2.070	(0.416)	65820	50.0000	57.6	
11 Acetone	43	2.091	2.091	(0.420)	93440	250.000	250	
12 Iodomethane	142	2.177	2.177	(0.437)	50268	50.0000	31.2	
13 Carbon Disulfide	76	2.242	2.242	(0.450)	215224	50.0000	56.4	
14 Acetonitrile	39	2.313	2.313	(0.465)	51248	250.000	289	
15 allyl chloride	41	2.313	2.313	(0.465)	93849	50.0000	44.7	
16 Methyl Acetate	43	2.320	2.320	(0.466)	268444	250.000	267	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.495)	37764	250.000	352	
18 Methylene Chloride	84	2.399	2.399	(0.482)	74597	50.0000	59.1	
19 Acrylonitrile	53	2.585	2.585	(0.519)	156295	250.000	336	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.528)	202083	50.0000	55.3	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.528)	73483	50.0000	56.3	
22 n-Hexane	57	2.872	2.872	(0.577)	102559	50.0000	64.0	
23 1,1-Dichloroethane	63	3.001	3.001	(0.603)	112495	50.0000	50.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
24 Vinyl Acetate	43	3.037	3.037	(0.610)	620376	200.000	258	
25 Diisopropyl ether	45	3.065	3.065	(0.616)	193253	50.0000	52.7	
26 chloroprene	53	3.094	3.094	(0.622)	98515	50.0000	55.9	
27 Ethyl-tert-butyl ether	59	3.452	3.452	(0.694)	198699	50.0000	53.8	
28 2,2-Dichloropropane	77	3.624	3.624	(0.728)	96197	50.0000	55.2	
29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.727)	79933	50.0000	55.3	
30 2-Butanone	43	3.624	3.624	(0.728)	160127	250.000	283	
31 Ethyl Acetate	88	3.717	3.717	(0.747)	22265	250.000	316	
32 Propionitrile	54	3.689	3.689	(0.741)	56368	250.000	355	
33 Methacrylonitrile	41	3.889	3.889	(0.781)	210737	250.000	292	
34 Bromochloromethane	49	3.903	3.903	(0.784)	46920	50.0000	48.1	
35 Tetrahydrofuran	42	3.982	3.982	(0.800)	118307	250.000	290	
36 Chloroform	83	4.004	4.004	(0.804)	107072	50.0000	47.6	
$ 37 Dibromofluoromethane (S)	113	4.197	4.197	(0.843)	46095	50.0000	49.3	
38 1,1,1-Trichloroethane	97	4.240	4.240	(0.852)	92509	50.0000	49.8	
39 Cyclohexane	56	4.312	4.312	(0.866)	102834	50.0000	52.4	
40 Carbon Tetrachloride	117	4.441	4.441	(0.892)	83756	50.0000	51.6	
41 1,1-Dichloropropene	75	4.433	4.433	(0.891)	85596	50.0000	53.4	
42 Isobutyl alcohol	43	4.584	4.584	(0.921)	11416	250.000	302	
43 Benzene	78	4.670	4.670	(0.938)	266697	50.0000	48.2	
44 1,2-Dichloroethane	62	4.677	4.677	(0.940)	69891	50.0000	50.7	
45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.960)	172621	50.0000	55.2	
46 tert-Amylmethyl ether	73	4.813	4.813	(0.967)	173983	50.0000	48.3	
* 47 Fluorobenzene	96	4.978	4.978	(1.000)	205705	50.0000		
48 Trichloroethene	95	5.379	5.379	(1.081)	62178	50.0000	44.9	
49 Methylcyclohexane	55	5.587	5.587	(1.122)	84031	50.0000	57.3	
50 1,2-Dichloropropane	63	5.601	5.601	(1.125)	70961	50.0000	58.0	
51 Dibromomethane	93	5.716	5.716	(1.148)	41202	50.0000	52.4	
52 Methyl methacrylate	69	5.759	5.759	(1.157)	61578	50.0000	61.4	
53 1,4-Dioxane	88	5.766	5.766	(1.158)	1551	1000.00	442	
54 Bromodichloromethane	83	5.888	5.888	(1.183)	91744	50.0000	60.9	
55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	254226	250.000	276	
56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.832)	123763	50.0000	50.4	
57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	382348	250.000	267	
$ 58 Toluene-d8	98	6.590	6.590	(0.864)	222892	50.0000	49.2	
59 Toluene	91	6.647	6.647	(0.871)	327536	50.0000	48.6	
60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	107904	50.0000	49.8	
61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	104719	50.0000	53.2	
62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	54172	50.0000	48.1	
63 Tetrachloroethene	166	7.077	7.077	(0.928)	93358	50.0000	51.2	
64 1,3-Dichloropropane	76	7.091	7.091	(0.930)	114621	50.0000	47.7	
65 2-Hexanone	43	7.163	7.163	(0.939)	280454	250.000	265	
66 Dibromochloromethane	129	7.249	7.249	(0.950)	78920	50.0000	49.7	
67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	70880	50.0000	48.6	
* 68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	174806	50.0000		
69 Chlorobenzene	112	7.650	7.650	(1.003)	219559	50.0000	49.8	
70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	77221	50.0000	50.7	
71 Ethylbenzene	106	7.721	7.721	(1.012)	118896	50.0000	51.7	
72 m&p-Xylene	106	7.793	7.793	(1.022)	293787	50.0000	101	
73 o-Xylene	106	8.022	8.022	(1.052)	131950	50.0000	49.1	
74 Styrene	104	8.029	8.029	(1.053)	235211	50.0000	51.5	
75 Bromoform	173	8.130	8.130	(0.916)	61315	50.0000	50.3	
76 Isopropylbenzene	105	8.223	8.223	(1.078)	354132	50.0000	52.9	
$ 77 4-Bromofluorobenzene	95	8.302	8.302	(1.088)	84157	50.0000	51.1	

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	78 Bromobenzene	77	8.380	8.380	(1.099)	168788	50.0000	50.7	
	79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	97661	50.0000	48.8	
	80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	31352	50.0000	49.7	
	81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.101)	26744	50.0000	51.0	
	82 n-Propylbenzene	91	8.438	8.438	(0.951)	407777	50.0000	53.1	
	83 2-Chlorotoluene	91	8.481	8.481	(0.956)	241298	50.0000	51.6	
	84 1,3,5-Trimethylbenzene	105	8.524	8.524	(0.960)	285090	50.0000	53.6	
	85 4-Chlorotoluene	126	8.538	8.538	(0.962)	89199	50.0000	50.8	
	86 tert-Butylbenzene	119	8.688	8.688	(0.979)	284841	50.0000	53.9	
	87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	290653	50.0000	53.8	
	88 sec-Butylbenzene	105	8.789	8.789	(0.990)	347723	50.0000	54.1	
	89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	168695	50.0000	52.9	
	90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	304579	50.0000	54.4	
*	91 1,4-Dichlorobenzene-d4	152	8.875	8.875	(1.000)	95211	50.0000		
	92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	168076	50.0000	51.3	
	93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	277956	50.0000	51.5	
	94 n-Butylbenzene	91	9.046	9.046	(1.019)	213646	50.0000	46.9	
	95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	138790	50.0000	45.7	
	96 Hexachloroethane	201	9.190	9.190	(1.036)	46543	50.0000	52.8	
	97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.060)	21805	50.0000	52.6	
	98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	74480	50.0000	44.1	
	99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	39767	50.0000	48.3	
	100 Naphthalene	128	9.877	9.877	(1.113)	214238	50.0000	45.0	
	101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	65932	50.0000	47.8	
	102 2,methyl-naphthalene	142	10.415	10.415	(1.174)	17839	50.0000	51.7	
	103 1-Methylnaphthalene	142	10.522	10.522	(1.186)	10307	50.0000	50.3	

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b02ccv.d

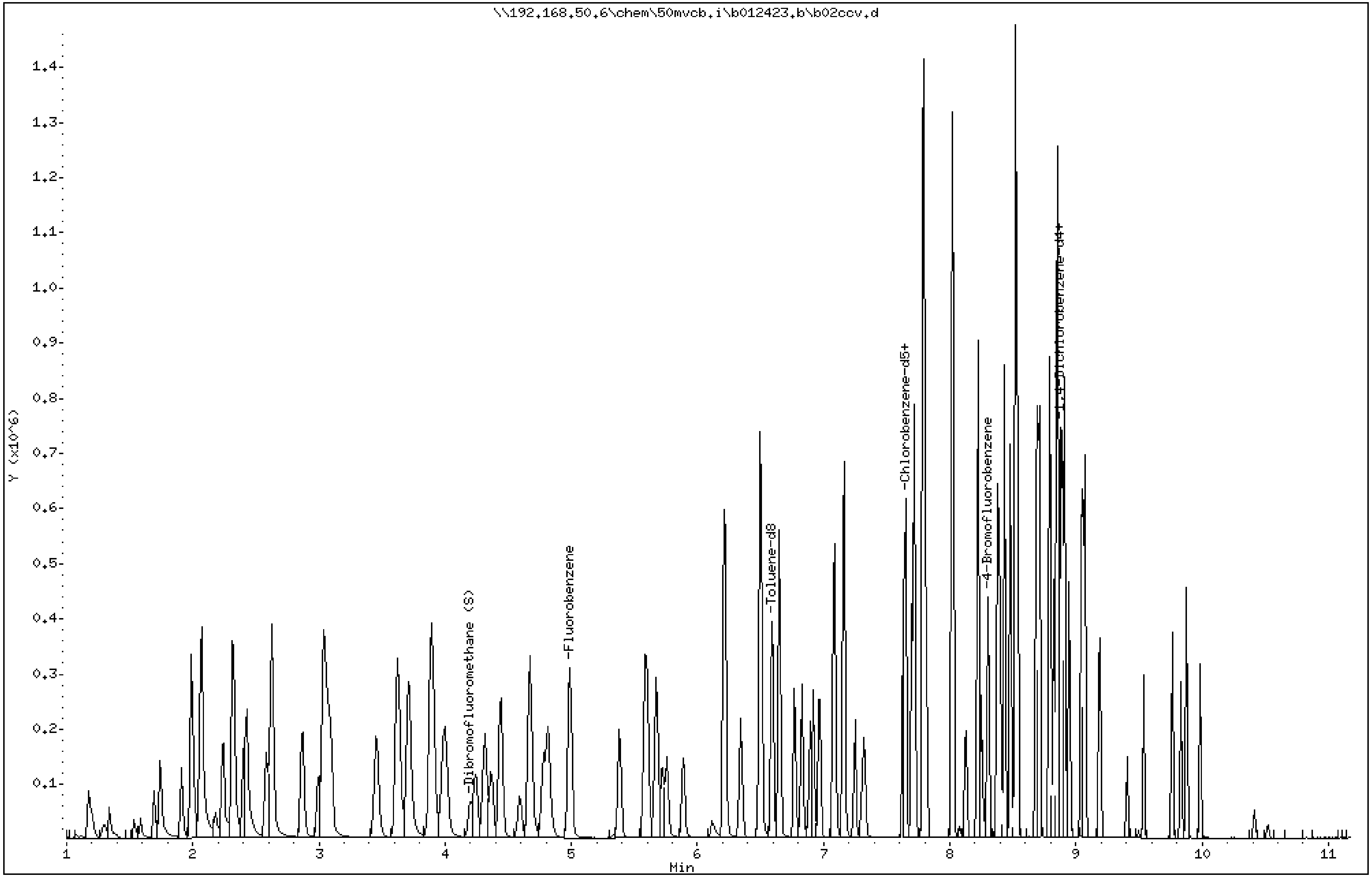
Date : 24-JAN-2023 13:31

Client ID: 8260-CCV　　Instrument: 50mvcb.i

Sample Info: 8260-CCV,336766:0

Purge Volume: 5.0　　Operator: tkg

Column phase: DB-624　　Column diameter: 0.18



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Injection Date: 24-JAN-2023 13:31
Instrument: 50mvcb.i
Lab Sample ID: 8260-CCV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

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Inj Date : 23-JAN-2023 11:09
Operator : tkg Inst ID: 50mvda.i
Smp Info : 8260-ccv,335929:0
Misc Info : 166067
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Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.217	1.217	(0.238)	113912	50.0000	34.8(M)	LT
2 Chloromethane	50	1.404	1.404	(0.275)	129580	50.0000	37.2	
3 Vinyl Chloride	62	1.396	1.396	(0.274)	141082	50.0000	41.9(M)	LT
4 Bromomethane	94	1.583	1.583	(0.310)	86403	50.0000	40.2(M)	LT
5 Chloroethane	64	1.647	1.647	(0.323)	82434	50.0000	41.8	
6 Trichlorofluoromethane	101	1.798	1.798	(0.352)	195477	50.0000	48.6	
7 Diethyl ether	74	1.977	1.977	(0.387)	70916	50.0000	41.1	
8 Acrolein	56	2.084	2.084	(0.408)	783650	1000.00	985	
9 1,1,2trichlorotrifluoroethane	101	2.127	2.127	(0.417)	128217	50.0000	48.3	
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	116100	50.0000	42.9	
11 Acetone	43	2.192	2.192	(0.429)	364907	250.000	228	
12 Iodomethane	142	2.263	2.263	(0.443)	162766	50.0000	64.3	
13 Carbon Disulfide	76	2.313	2.313	(0.453)	345549	50.0000	42.4	
14 Acetonitrile	39	2.406	2.406	(0.471)	153410	250.000	236	
15 allyl chloride	41	2.406	2.406	(0.471)	313009	50.0000	42.5	
16 Methyl Acetate	43	2.414	2.414	(0.473)	813541	250.000	225	
17 Methylene Chloride	84	2.507	2.507	(0.491)	125474	50.0000	45.2	
18 tert-Butyl Alcohol	59	2.586	2.586	(0.506)	138868	250.000	251	
19 Acrylonitrile	53	2.722	2.722	(0.533)	397674	250.000	233	
20 Methyl-tert-butyl ether	73	2.714	2.714	(0.532)	351413	50.0000	43.3	
21 1,2-Dichloroethene (trans)	96	2.722	2.722	(0.533)	130481	50.0000	41.7	
22 n-Hexane	57	2.944	2.944	(0.576)	192139	50.0000	39.4	
23 1,1-Dichloroethane	63	3.123	3.123	(0.612)	211290	50.0000	43.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.166	3.166	(0.620)	1580376	200.000	183	
	25 Diisopropyl ether	45	3.166	3.166	(0.620)	431390	50.0000	41.9	
	26 chloroprene	53	3.209	3.209	(0.628)	184126	50.0000	43.0	
	27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	360262	50.0000	42.5	
	28 2,2-Dichloropropane	77	3.760	3.760	(0.736)	182724	50.0000	46.6	
	29 1,2-Dichloroethene (cis)	96	3.775	3.775	(0.739)	144783	50.0000	41.3	
	30 2-Butanone	43	3.810	3.810	(0.746)	544735	250.000	218	
	31 Ethyl Acetate	88	3.875	3.875	(0.759)	42660	250.000	242	
	32 Propionitrile	54	3.918	3.918	(0.767)	160412	250.000	226	
	33 Methacrylonitrile	41	4.090	4.090	(0.801)	806680	250.000	201	
	34 Bromochloromethane	49	4.075	4.075	(0.798)	109249	50.0000	42.7	
	35 Tetrahydrofuran	42	4.126	4.126	(0.808)	414055	250.000	205	
	36 Chloroform	83	4.169	4.169	(0.816)	216316	50.0000	43.6	
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	134100	50.0000	52.6	
	38 1,1,1-Trichloroethane	97	4.369	4.369	(0.856)	201903	50.0000	45.7	
	39 Cyclohexane	56	4.412	4.412	(0.864)	208953	50.0000	38.8	
	40 Carbon Tetrachloride	117	4.548	4.548	(0.891)	203042	50.0000	50.4	
	41 1,1-Dichloropropene	75	4.555	4.555	(0.892)	155963	50.0000	44.4	
	42 Isobutyl alcohol	43	4.756	4.756	(0.931)	60474	250.000	246	
	43 Benzene	78	4.799	4.799	(0.940)	493678	50.0000	43.9	
	44 1,2-Dichloroethane	62	4.835	4.835	(0.947)	158226	50.0000	44.0	
	45 2,2,4-Trimethylpentane	57	4.863	4.863	(0.952)	320601	50.0000	40.1	
	46 tert-Amylmethyl ether	73	4.921	4.921	(0.964)	359538	50.0000	42.0	
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	499399	50.0000		
	48 Trichloroethene	95	5.494	5.494	(1.076)	133246	50.0000	46.0	
	49 Methylcyclohexane	55	5.673	5.673	(1.111)	159693	50.0000	37.2	
	50 1,2-Dichloropropane	63	5.744	5.744	(1.125)	125310	50.0000	42.6	
	51 Dibromomethane	93	5.866	5.866	(1.149)	88485	50.0000	48.6	
	52 1,4-Dioxane	88	5.902	5.902	(1.156)	31839	1000.00	1760	
	53 Methyl methacrylate	69	5.881	5.881	(1.151)	115457	50.0000	42.2	
	54 Bromodichloromethane	83	6.031	6.031	(1.181)	163460	50.0000	45.6	
	55 2-Chloroethyl vinyl ether	63	6.346	6.346	(0.821)	489155	250.000	206	
	56 cis-1,3-Dichloropropene	75	6.468	6.468	(0.837)	200860	50.0000	41.3	
	57 4-Methyl-2-Pentanone	43	6.625	6.625	(0.857)	1091198	250.000	196	
$	58 Toluene-d8	98	6.697	6.697	(0.867)	482667	50.0000	47.0	
	59 Toluene	91	6.747	6.747	(0.873)	583338	50.0000	40.9	
	60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	187706	50.0000	41.4	
	61 Ethyl Methacrylate	69	7.019	7.019	(0.908)	187328	50.0000	40.4	
	62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	94055	50.0000	40.8	
	63 Tetrachloroethene	166	7.163	7.163	(0.927)	176666	50.0000	49.5	
	64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	186061	50.0000	41.1	
	65 2-Hexanone	43	7.270	7.270	(0.941)	876250	250.000	196	
	66 Dibromochloromethane	129	7.363	7.363	(0.953)	160917	50.0000	48.8	
	67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	136115	50.0000	44.7	
*	68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	391819	50.0000		
	69 Chlorobenzene	112	7.750	7.750	(1.003)	390896	50.0000	44.6	
	70 1,1,1,2-Tetrachloroethane	131	7.800	7.800	(1.009)	151175	50.0000	47.8	
	71 Ethylbenzene	106	7.815	7.815	(1.011)	215727	50.0000	44.2	
	72 m&p-Xylene	106	7.886	7.886	(1.020)	271046	50.0000	45.4	
	73 o-Xylene	106	8.115	8.115	(1.050)	250922	50.0000	44.4	
	74 Styrene	104	8.123	8.123	(1.051)	431006	50.0000	43.8	
	75 Bromoform	173	8.237	8.237	(0.916)	130411	50.0000	48.7	
	76 Isopropylbenzene	105	8.316	8.316	(1.076)	654915	50.0000	44.1	
$	77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	164481	50.0000	50.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
78 Bromobenzene	77	8.488	8.488	(1.098)	200561	50.0000	41.1	
79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	171019	50.0000	37.5	
80 1,2,3-Trichloropropane	110	8.517	8.517	(0.947)	63748	50.0000	42.4	
81 trans-1,4-Dichloro-2-butene	53	8.517	8.517	(1.102)	63394	50.0000	40.6	
82 n-Propylbenzene	91	8.538	8.538	(0.949)	723582	50.0000	38.1	
83 2-Chlorotoluene	91	8.588	8.588	(0.955)	387979	50.0000	38.2	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	508099	50.0000	40.8	
85 4-Chlorotoluene	126	8.645	8.645	(0.961)	169148	50.0000	43.5	
86 tert-Butylbenzene	119	8.789	8.789	(0.977)	450486	50.0000	36.9	
87 1,2,4-Trimethylbenzene	105	8.810	8.810	(0.979)	507712	50.0000	40.8	
88 sec-Butylbenzene	105	8.896	8.896	(0.989)	620844	50.0000	41.0	
89 1,3-Dichlorobenzene	146	8.961	8.961	(0.996)	294765	50.0000	44.2	
90 p-Isopropyltoluene	119	8.968	8.968	(0.997)	540091	50.0000	42.6	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	205162	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.011	(1.002)	288129	50.0000	43.1	
93 1,2,3-Trimethylbenzene	105	9.025	9.025	(1.003)	459830	50.0000	40.2	
94 n-Butylbenzene	91	9.161	9.161	(1.018)	400979	50.0000	38.8	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	256355	50.0000	45.1	
96 Hexachloroethane	201	9.312	9.312	(1.035)	81961	50.0000	50.8	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.562	(1.063)	42338	50.0000	49.9	
98 1,2,4-Trichlorobenzene	180	9.942	9.942	(1.105)	83608	50.0000	46.2	
99 Hexachlorobutadiene	225	10.006	10.006	(1.112)	45231	50.0000	50.9	
100 Naphthalene	128	10.064	10.064	(1.119)	228670	50.0000	41.5	
101 1,2,3-Trichlorobenzene	180	10.178	10.178	(1.131)	45737	50.0000	45.6	
102 2,methyl-naphthalene	142	10.651	10.651	(1.184)	10530	50.0000	40.9	
103 1-Methylnaphthalene	142	10.766	10.766	(1.197)	6109	50.0000	43.5	

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).
:

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a02ccv.d

Date : 23-JAN-2023 11:09

Client ID: 8260-CCV

Instrument: 50mvda.i

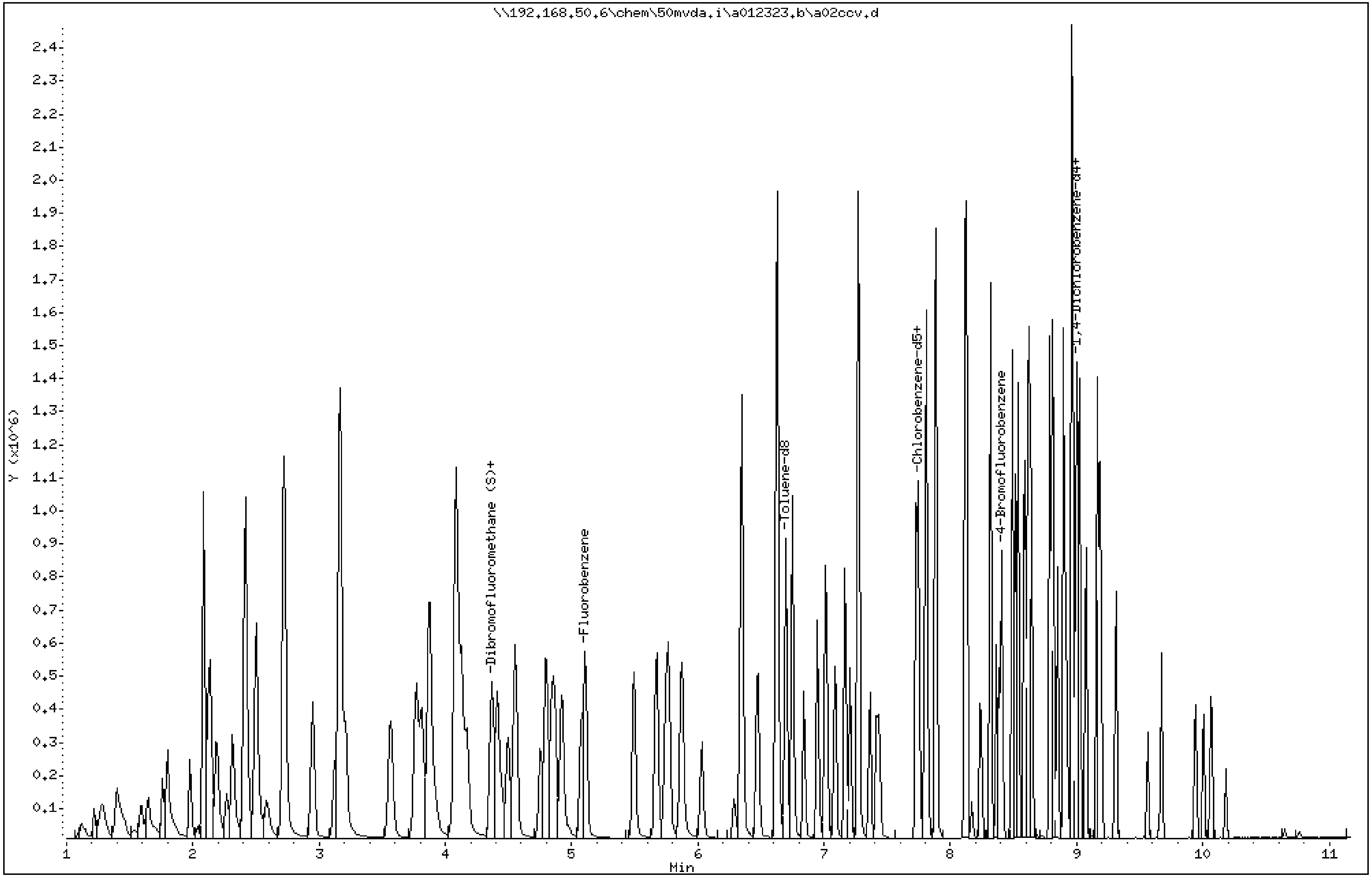
Sample Info: 8260-CCV,335929:0

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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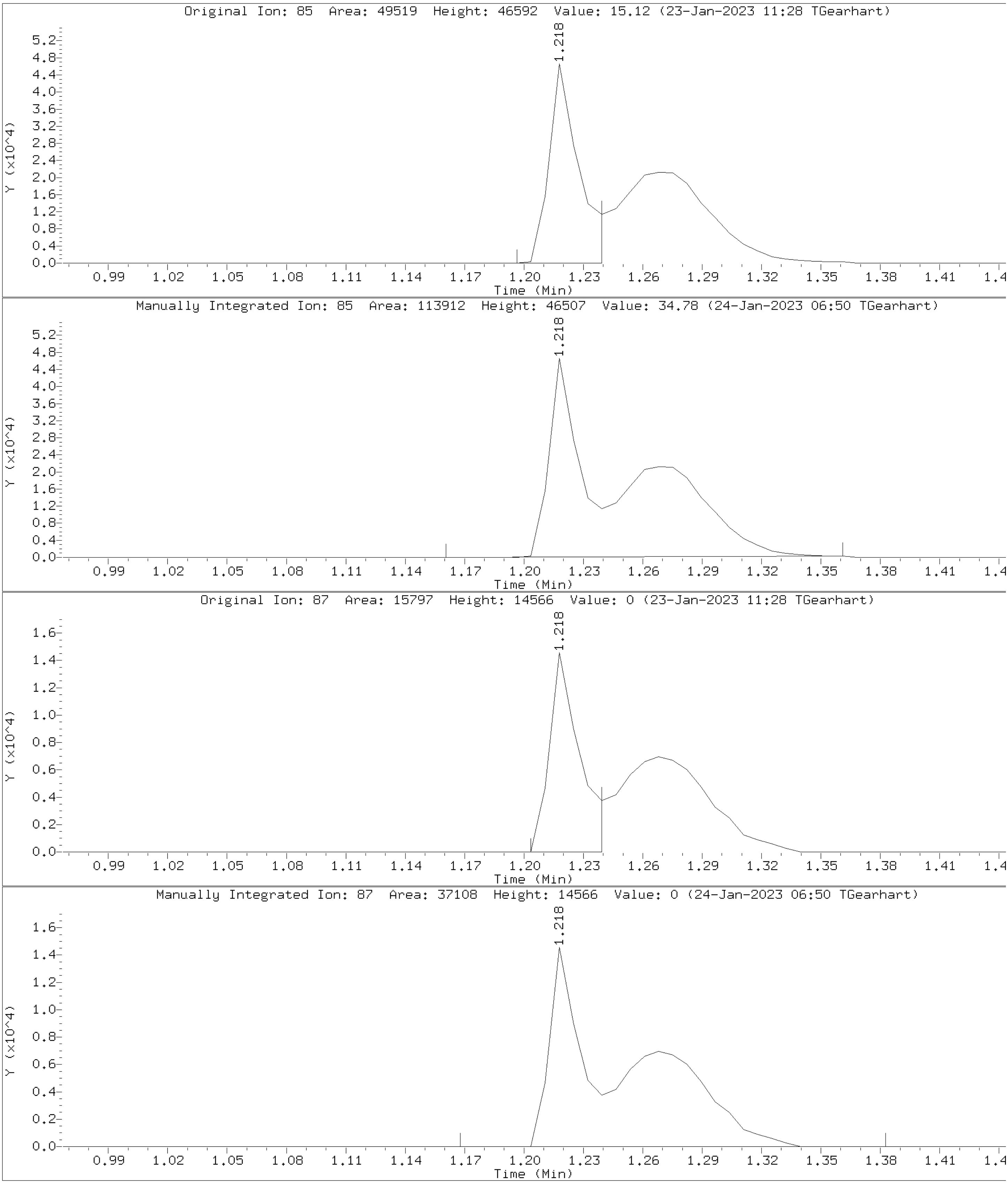
Injection Date: 23-JAN-2023 11:09
Instrument: 50mvda.i
Lab Sample ID: 8260-CCV

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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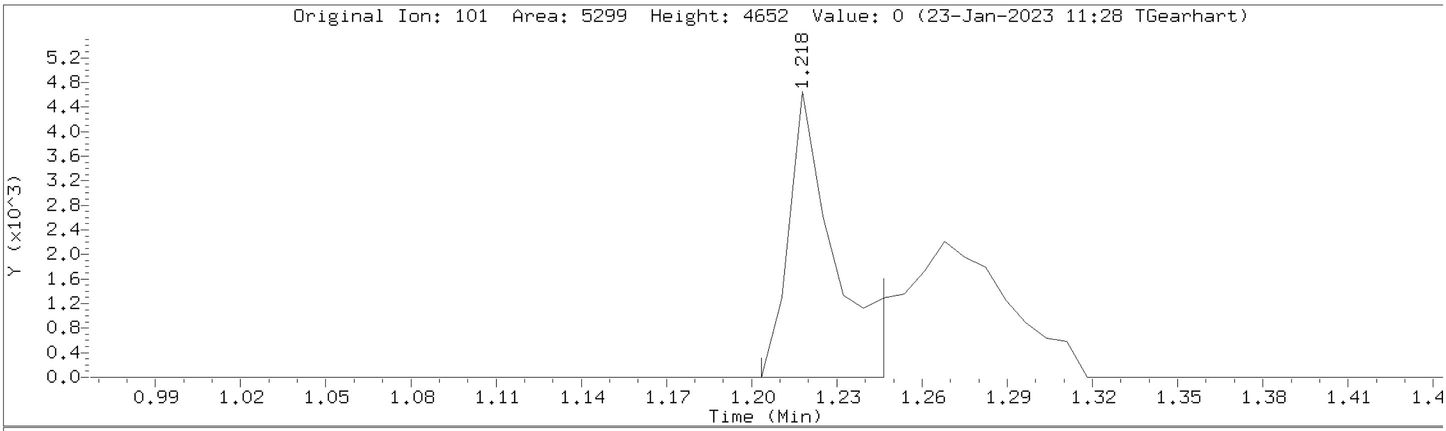
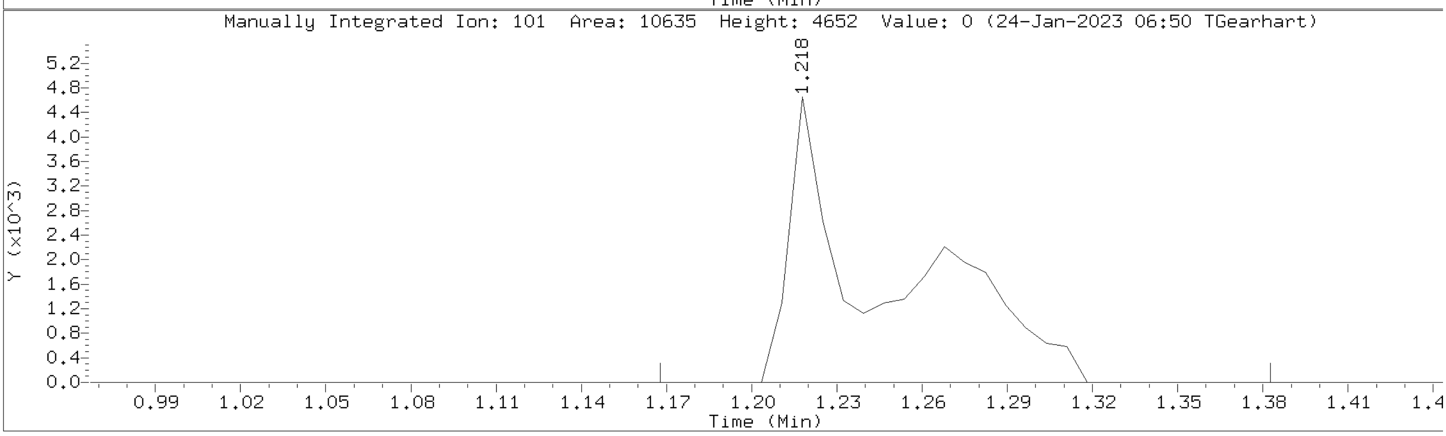
Injection Date: 23-JAN-2023 11:09
Instrument: 50mvda.i
Lab Sample ID: 8260-CCV





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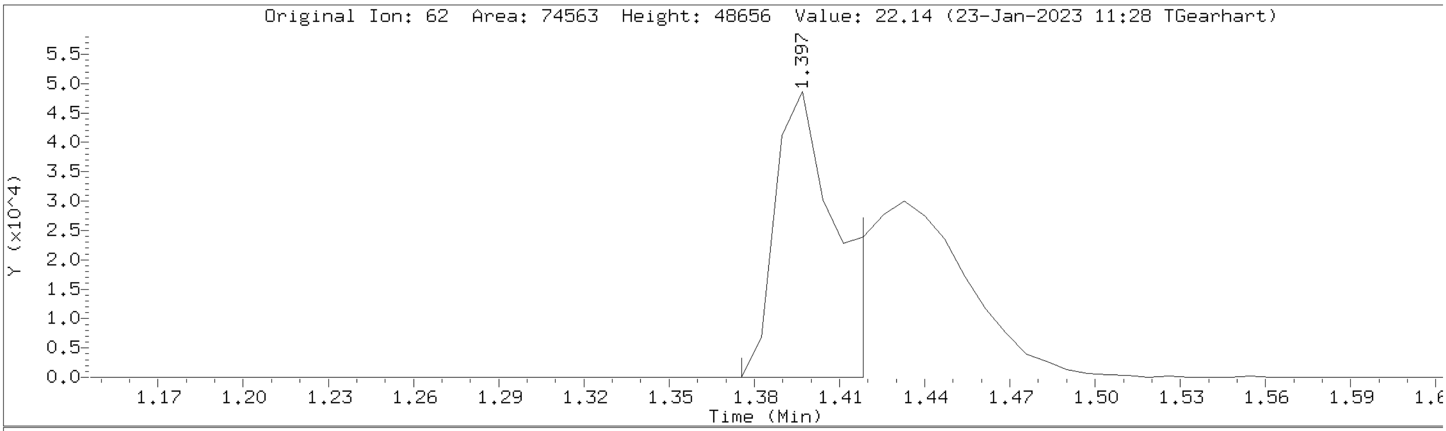
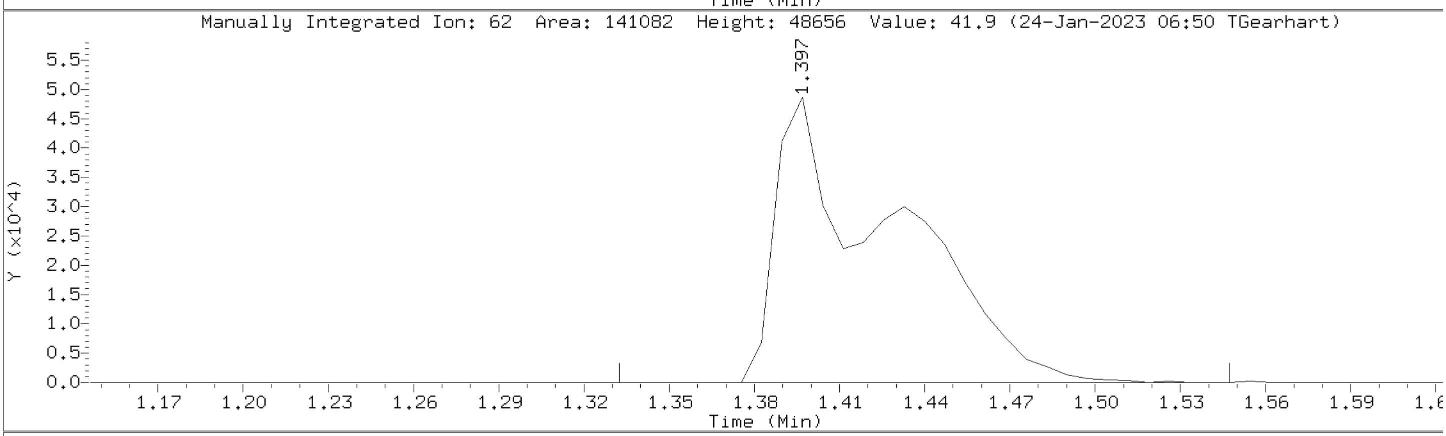
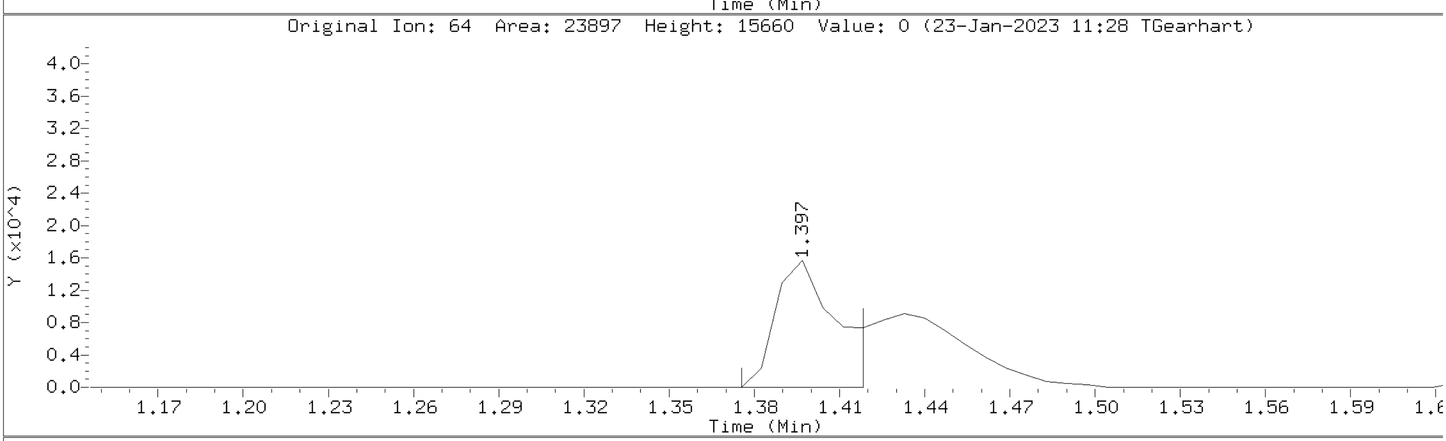
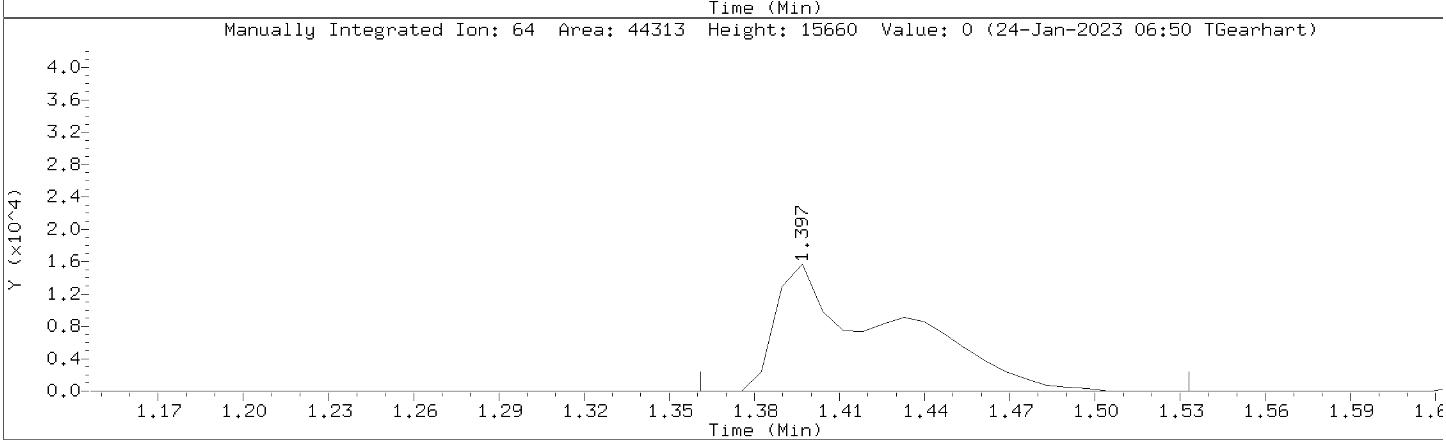
Injection Date: 23-JAN-2023 11:09
Instrument: 50mvda.i
Lab Sample ID: 8260-CCV

Compound: Vinyl Chloride   Review Code: LT
CAS Number: 75-01-4









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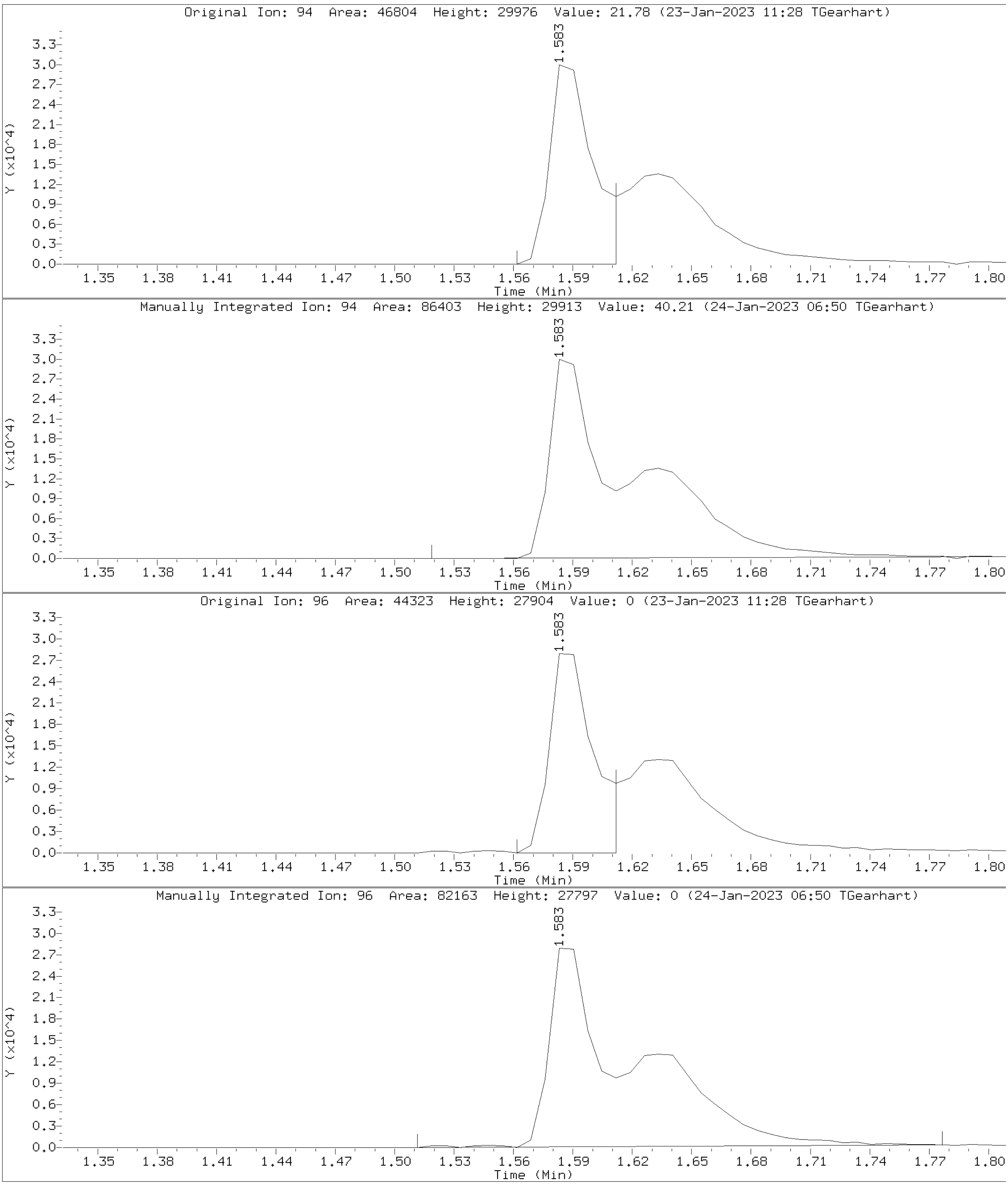
Injection Date: 23-JAN-2023 11:09
Instrument: 50mvda.i
Lab Sample ID: 8260-CCV

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a03lcsicv.d
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Inj Date : 23-JAN-2023 11:36
Operator : tkg Inst ID: 50mvda.i
Smp Info : 8260-icv
Misc Info :
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TMW1

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	1.217	1.217	(0.238)	142192	41.6939	41.7(M)	LT
2 Chloromethane	50	1.404	1.404	(0.275)	152617	42.0585	42.0	
3 Vinyl Chloride	62	1.396	1.396	(0.273)	151249	43.1295	43.1	
4 Bromomethane	94	1.590	1.583	(0.311)	95771	42.8021	42.8(M)	LT
5 Chloroethane	64	1.647	1.647	(0.323)	87765	42.7728	42.8	
6 Trichlorofluoromethane	101	1.805	1.798	(0.353)	208887	49.8611	49.9	
7 Diethyl ether	74	1.977	1.977	(0.387)	75029	41.7241	41.7	
8 Acrolein	56	2.084	2.084	(0.408)	732260	884.089	884	
9 1,1,2trichlorotrifluoroethane	101	2.127	2.127	(0.417)	143878	52.0995	52.1	
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	125043	44.3727	44.4	
11 Acetone	43	2.191	2.192	(0.429)	339394	203.849	204	
12 Iodomethane	142	2.270	2.263	(0.445)	190136	72.0892	72.1	
13 Carbon Disulfide	76	2.313	2.313	(0.453)	379024	44.6677	44.7	
14 Acetonitrile	39	2.406	2.406	(0.471)	153745	227.331	227	
15 allyl chloride	41	2.406	2.406	(0.471)	316627	41.2705	41.3	
16 Methyl Acetate	43	2.413	2.414	(0.473)	785014	208.242	208	
17 Methylene Chloride	84	2.507	2.507	(0.491)	130814	45.2902	45.3	
18 tert-Butyl Alcohol	59	2.585	2.586	(0.506)	137994	239.353	239	
19 Acrylonitrile	53	2.722	2.722	(0.533)	395979	222.539	222	
20 Methyl-tert-butyl ether	73	2.722	2.714	(0.533)	359833	42.5739	42.6	
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	134001	41.1365	41.1	
22 n-Hexane	57	2.951	2.944	(0.578)	208068	40.9233	40.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	3.123	3.123	(0.612)	214201	42.0294	42.0	
24 Vinyl Acetate	43	3.166	3.166	(0.620)	1632806	181.611	182	
25 Diisopropyl ether	45	3.166	3.166	(0.620)	440004	41.0628	41.1	
26 chloroprene	53	3.209	3.209	(0.628)	197305	44.2382	44.2	
27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	369529	41.8473	41.8	
28 2,2-Dichloropropane	77	3.767	3.760	(0.738)	190641	46.6420	46.6	
29 1,2-Dichloroethene (cis)	96	3.774	3.775	(0.739)	148467	40.6772	40.7	
30 2-Butanone	43	3.810	3.810	(0.746)	546503	210.098	210	
31 Ethyl Acetate	88	3.875	3.875	(0.759)	45420	246.994	247	
32 Propionitrile	54	3.918	3.918	(0.767)	162976	220.395	220	
33 Methacrylonitrile	41	4.090	4.090	(0.801)	841522	201.174	201	
34 Bromochloromethane	49	4.075	4.075	(0.798)	112291	42.1812	42.2	
35 Tetrahydrofuran	42	4.125	4.126	(0.808)	424260	202.075	202	
36 Chloroform	83	4.168	4.169	(0.816)	225762	43.7391	43.7	
$ 37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	138025	51.9564	52.0	
38 1,1,1-Trichloroethane	97	4.369	4.369	(0.856)	218888	47.6234	47.6	
39 Cyclohexane	56	4.412	4.412	(0.864)	229545	40.9262	40.9	
40 Carbon Tetrachloride	117	4.548	4.548	(0.891)	217768	51.8935	51.9	
41 1,1-Dichloropropene	75	4.555	4.555	(0.892)	166841	45.5787	45.6	
42 Isobutyl alcohol	43	4.756	4.756	(0.931)	58246	227.537	228	
43 Benzene	78	4.799	4.799	(0.940)	507653	43.3764	43.4	
44 1,2-Dichloroethane	62	4.835	4.835	(0.947)	163677	43.6781	43.7	
45 2,2,4-Trimethylpentane	57	4.863	4.863	(0.952)	348609	41.8517	41.8	
46 tert-Amylmethyl ether	73	4.921	4.921	(0.964)	358476	40.1735	40.2	
* 47 Fluorobenzene	96	5.107	5.107	(1.000)	520065	50.0000		
48 Trichloroethene	95	5.494	5.494	(1.076)	138336	45.8147	45.8	
49 Methylcyclohexane	55	5.673	5.673	(1.111)	174863	39.1463	39.1	
50 1,2-Dichloropropane	63	5.744	5.744	(1.125)	127177	41.4898	41.5	
51 Dibromomethane	93	5.866	5.866	(1.149)	90350	47.6936	47.7	
52 1,4-Dioxane	88	5.895	5.902	(1.154)	8473	450.631	451(R)	
53 Methyl methacrylate	69	5.880	5.881	(1.151)	118536	41.6322	41.6	
54 Bromodichloromethane	83	6.031	6.031	(1.181)	176774	47.3089	47.3	
55 2-Chloroethyl vinyl ether	63	6.346	6.346	(0.821)	501130	205.683	206	
56 cis-1,3-Dichloropropene	75	6.468	6.468	(0.837)	211858	42.3299	42.3	
57 4-Methyl-2-Pentanone	43	6.625	6.625	(0.857)	1137442	198.833	199	
$ 58 Toluene-d8	98	6.697	6.697	(0.867)	497176	47.0476	47.0	
59 Toluene	91	6.747	6.747	(0.873)	589353	40.1706	40.2	
60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	191004	40.9240	40.9	
61 Ethyl Methacrylate	69	7.019	7.019	(0.908)	186888	39.1976	39.2	
62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	97195	41.0106	41.0	
63 Tetrachloroethene	166	7.163	7.163	(0.927)	184892	50.3606	50.4	
64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	189929	40.8505	40.8	
65 2-Hexanone	43	7.270	7.270	(0.941)	898843	195.937	196	
66 Dibromochloromethane	129	7.363	7.363	(0.953)	168276	49.6560	49.6	
67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	140600	44.9153	44.9	
* 68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	402885	50.0000		
69 Chlorobenzene	112	7.750	7.750	(1.003)	404148	44.8952	44.9	
70 1,1,1,2-Tetrachloroethane	131	7.800	7.800	(1.009)	157013	48.2544	48.2	
71 Ethylbenzene	106	7.814	7.815	(1.011)	222370	44.3358	44.3	
72 m&p-Xylene	106	7.886	7.886	(1.020)	545998	88.8820	88.9	
73 o-Xylene	106	8.115	8.115	(1.050)	255274	43.9100	43.9	
74 Styrene	104	8.122	8.123	(1.051)	447324	44.2083	44.2	
75 Bromoform	173	8.237	8.237	(0.916)	136281	50.1249	50.1	
76 Isopropylbenzene	105	8.316	8.316	(1.076)	661279	43.3194	43.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	162211	48.0261	48.0	
78 Bromobenzene	77	8.488	8.488	(1.098)	202516	40.3317	40.3	
79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	171414	37.0088	37.0	
80 1,2,3-Trichloropropane	110	8.516	8.517	(0.947)	62602	41.0044	41.0	
81 trans-1,4-Dichloro-2-butene	53	8.516	8.517	(1.102)	63782	39.7281	39.7	
82 n-Propylbenzene	91	8.531	8.538	(0.948)	740304	38.3830	38.4	
83 2-Chlorotoluene	91	8.588	8.588	(0.955)	393458	38.1316	38.1	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	508240	40.2223	40.2	
85 4-Chlorotoluene	126	8.638	8.645	(0.960)	172743	43.7448	43.7	
86 tert-Butylbenzene	119	8.789	8.789	(0.977)	464879	37.5052	37.5	
87 1,2,4-Trimethylbenzene	105	8.810	8.810	(0.979)	506741	40.0846	40.1	
88 sec-Butylbenzene	105	8.896	8.896	(0.989)	621841	40.4671	40.5	
89 1,3-Dichlorobenzene	146	8.961	8.961	(0.996)	304479	44.9394	44.9	
90 p-Isopropyltoluene	119	8.961	8.968	(0.996)	549422	42.6034	42.6	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	208454	50.0000		
92 1,4-Dichlorobenzene	146	9.003	9.011	(1.001)	299332	44.0444	44.0	
93 1,2,3-Trimethylbenzene	105	9.025	9.025	(1.003)	470064	40.4467	40.4	
94 n-Butylbenzene	91	9.161	9.161	(1.018)	407690	38.8592	38.8	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	261551	45.3096	45.3	
96 Hexachloroethane	201	9.311	9.312	(1.035)	88630	54.0619	54.1	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.562	(1.063)	44178	51.2094	51.2	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	84223	45.8441	45.8	
99 Hexachlorobutadiene	225	9.999	10.006	(1.111)	47444	52.5489	52.5	
100 Naphthalene	128	10.064	10.064	(1.119)	238662	42.5960	42.6	
101 1,2,3-Trichlorobenzene	180	10.178	10.178	(1.131)	48372	47.4446	47.4	
102 2,methyl-naphthalene	142	10.644	10.651	(1.183)	10579	40.4091	40.4	
103 1-Methylnaphthalene	142	10.758	10.766	(1.196)	6229	43.6774	43.7	

QC Flag Legend

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\50mvda.i\a012323.b\a031csicv.d

Page 4

Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

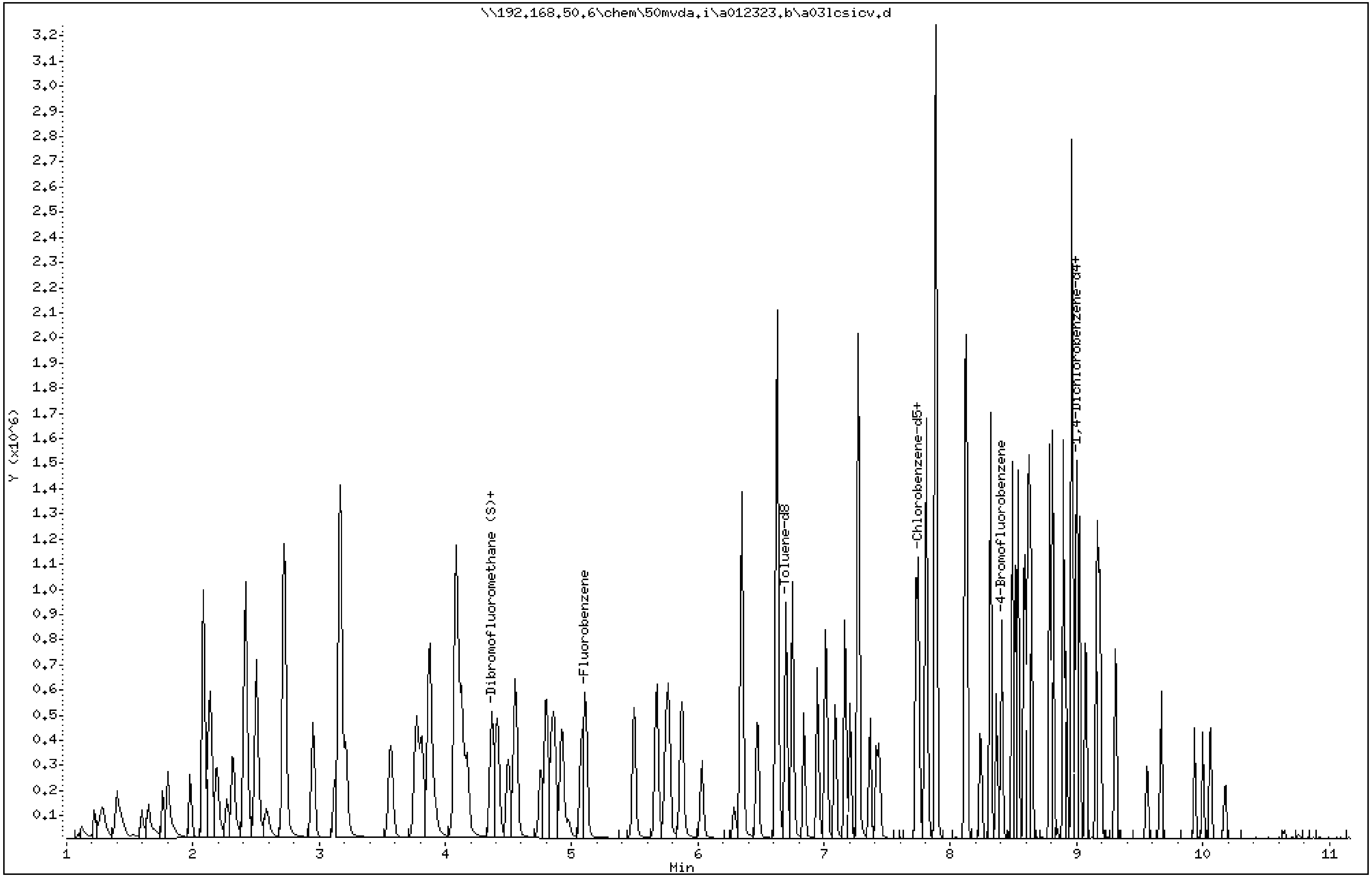
Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

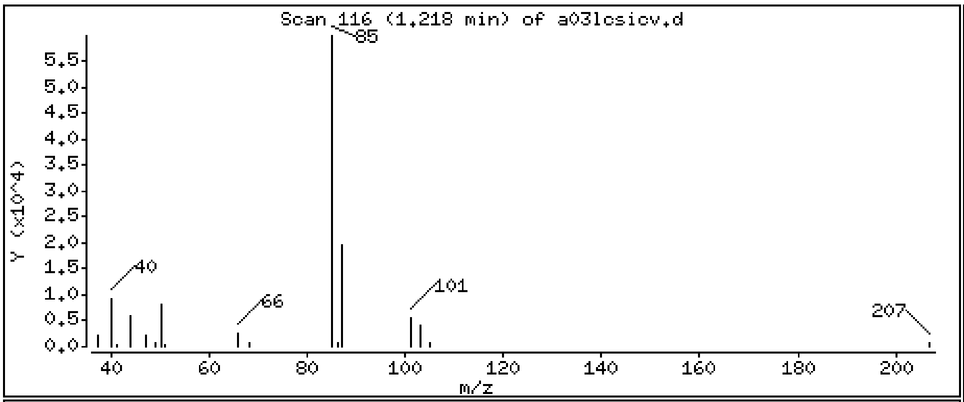
Column phase: DB-624

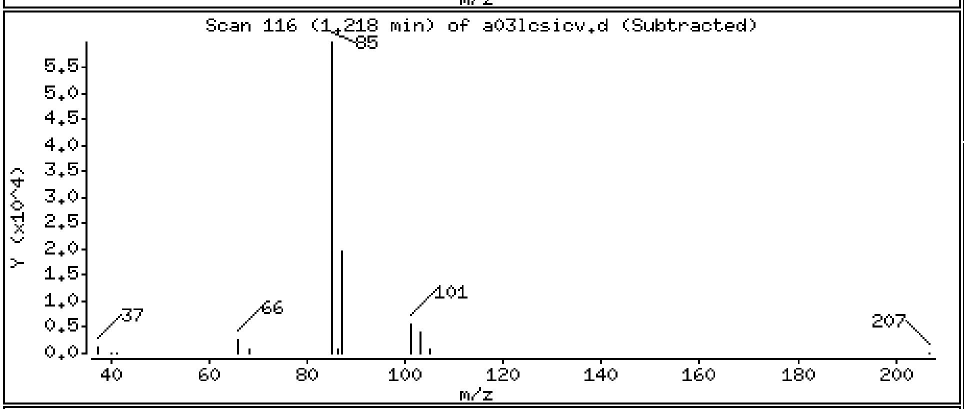
Column diameter: 0.18

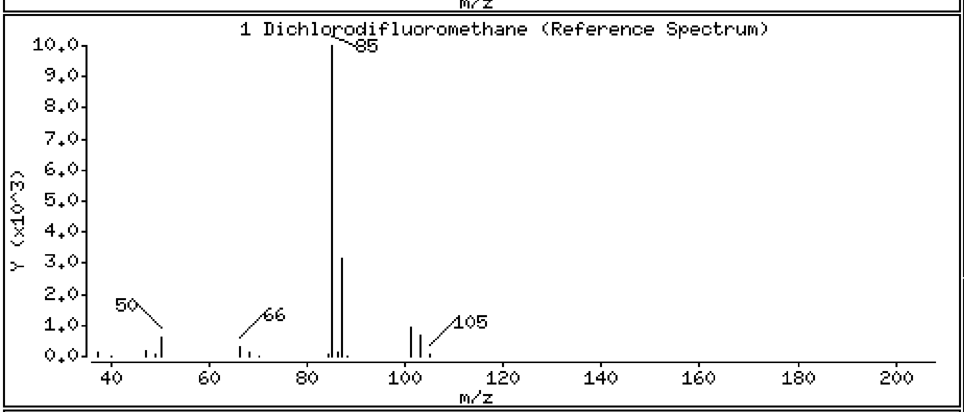
1 Dichlorodifluoromethane

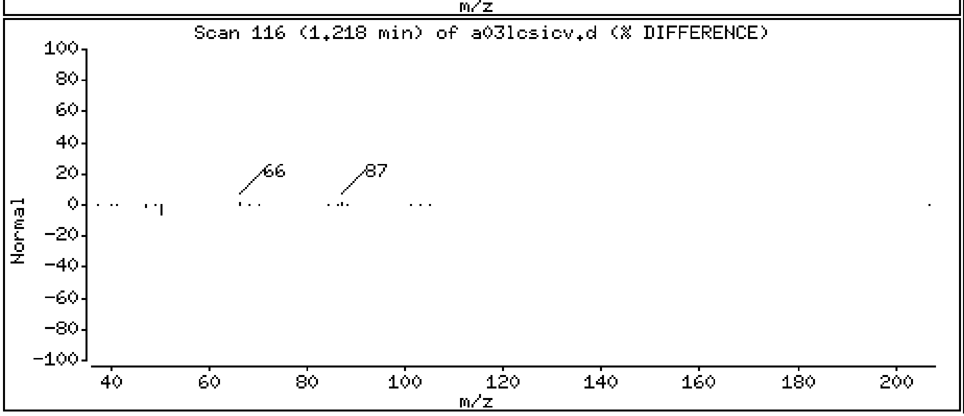
Concentration: 41.7 ppb

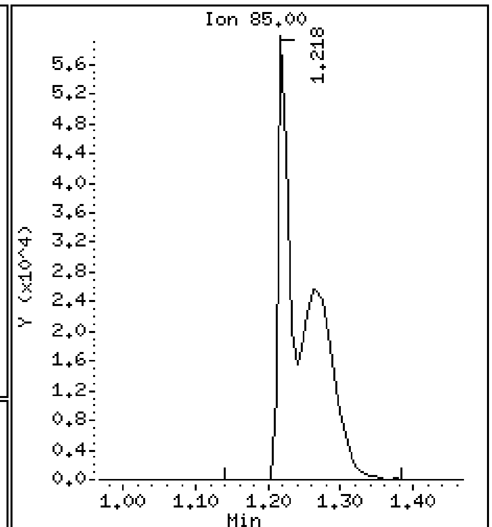
Review Code: LT

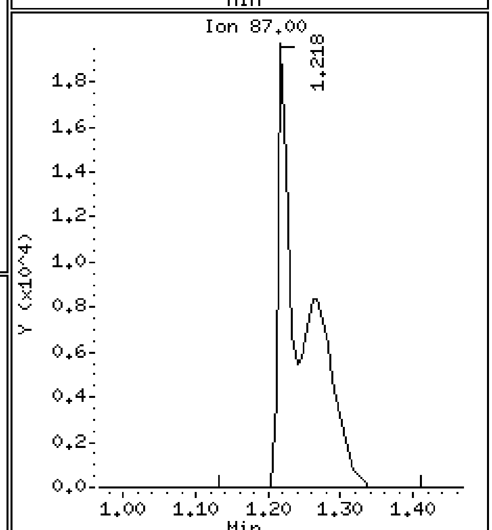


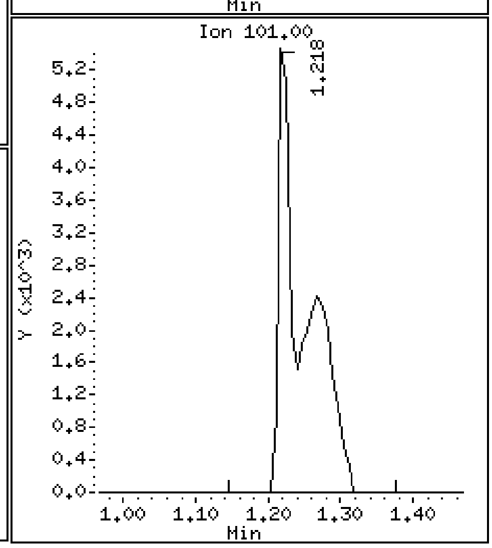












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

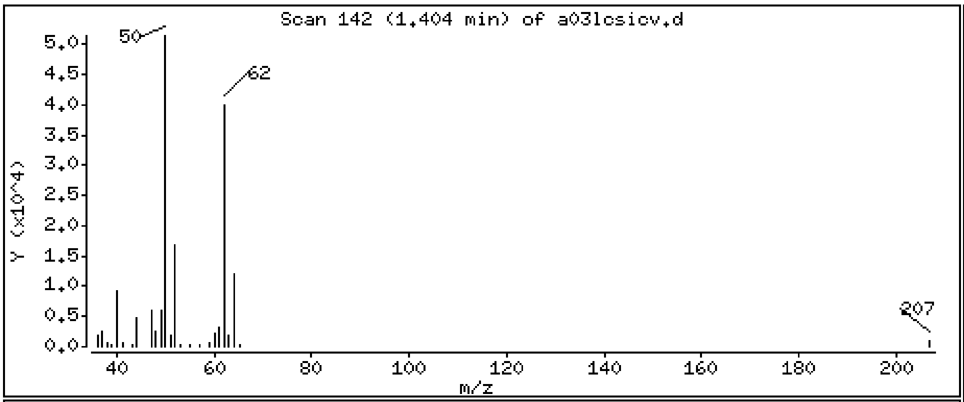
Column phase: DB-624

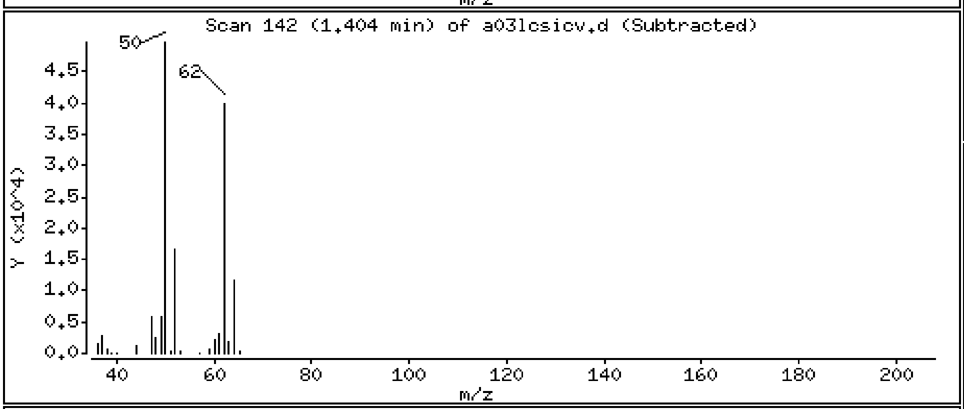
Column diameter: 0.18

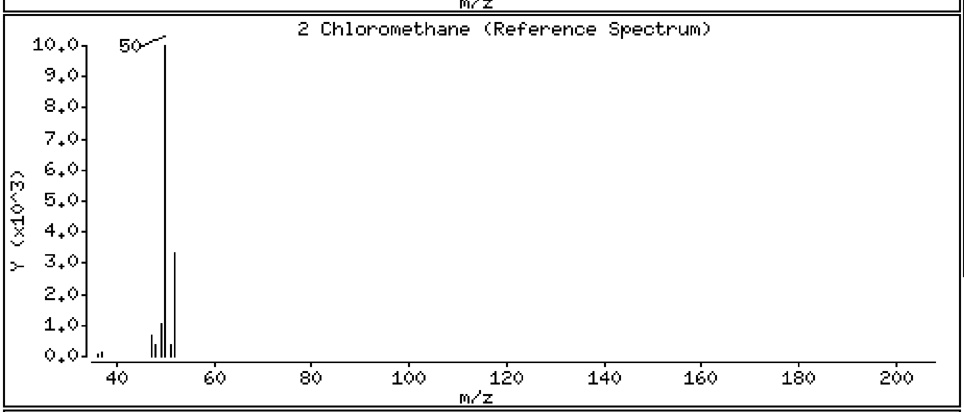
2 Chloromethane

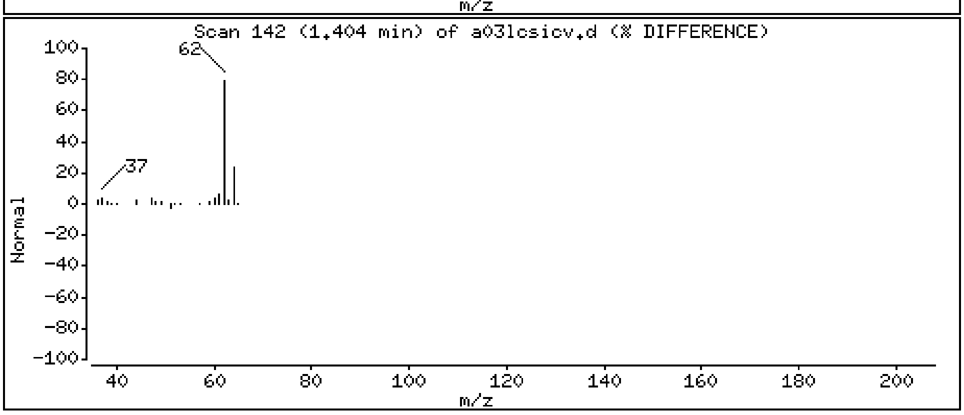
Concentration: 42.0 ppb

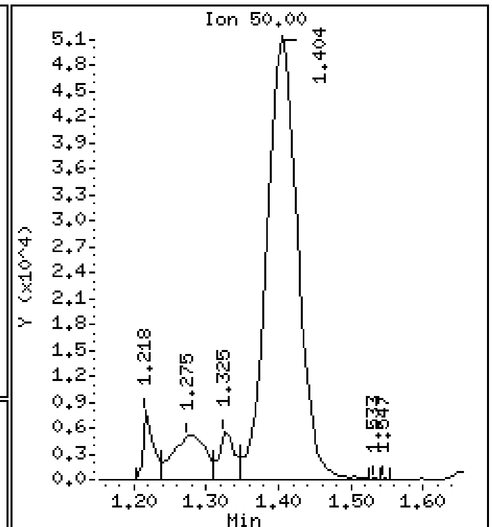
Review Code:

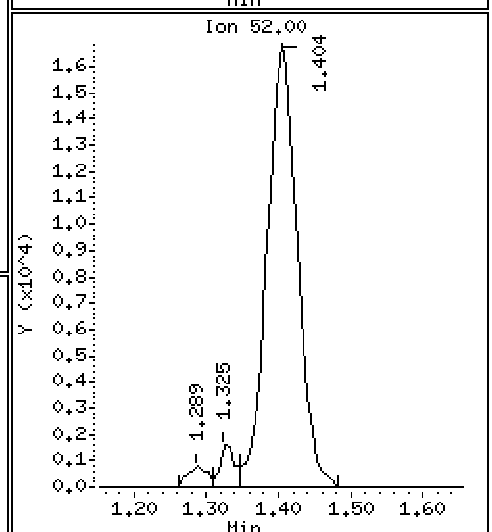












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Date : 23-JAN-2023 11:36

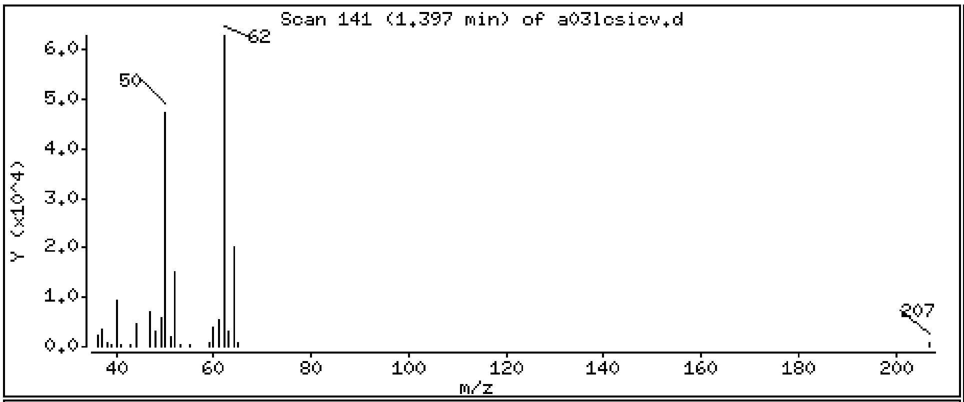
Client ID: Instrument: 50mvda.i

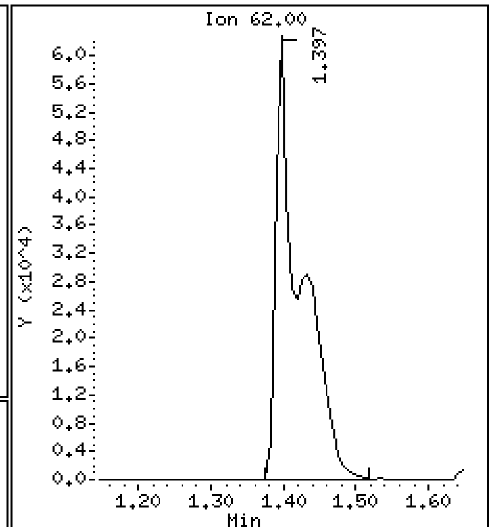
Sample Info: 8260-ICV

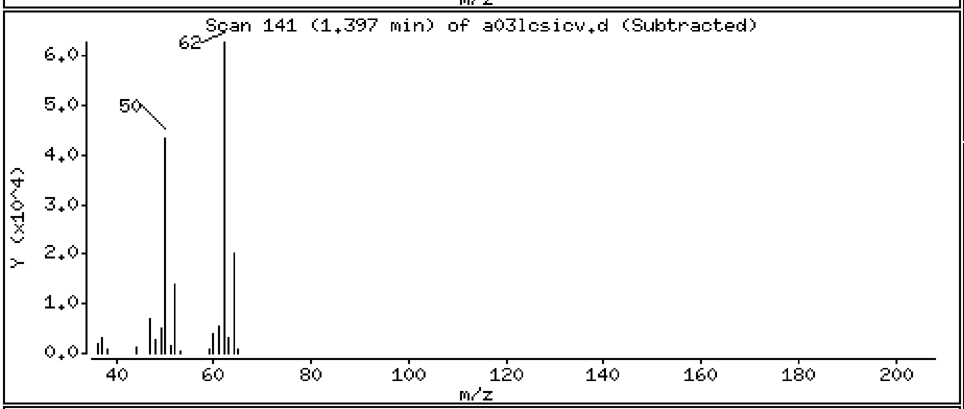
Purge Volume: 5.0 Operator: tkg

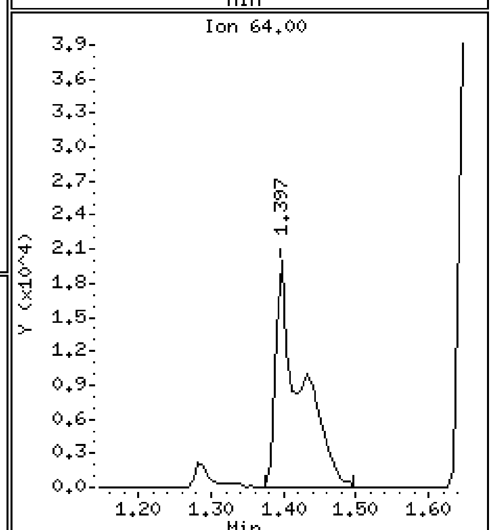
Column phase: DB-624 Column diameter: 0.18

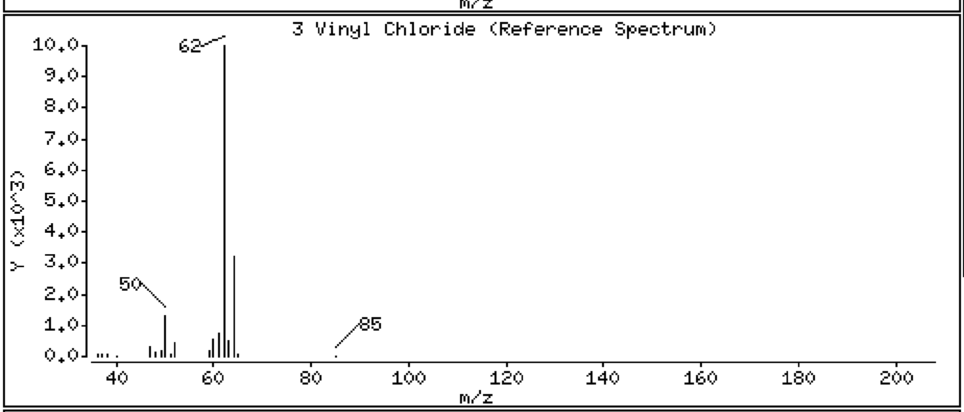
3 Vinyl Chloride Concentration: 43.1 ppb Review Code:

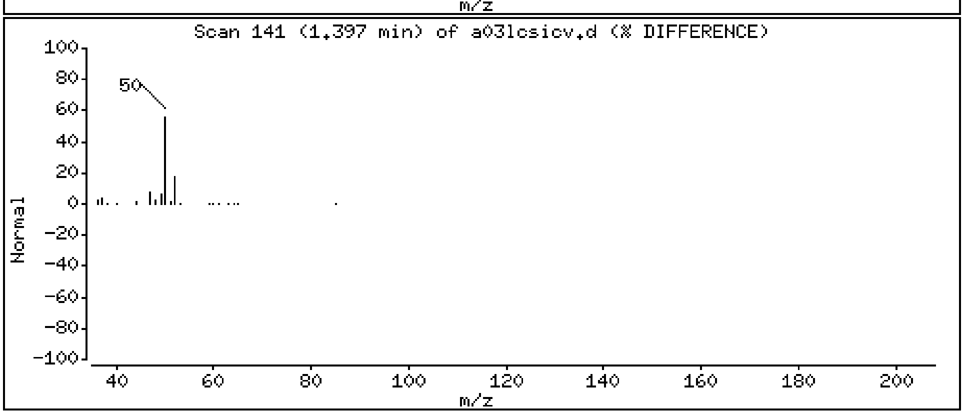












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Date : 23-JAN-2023 11:36

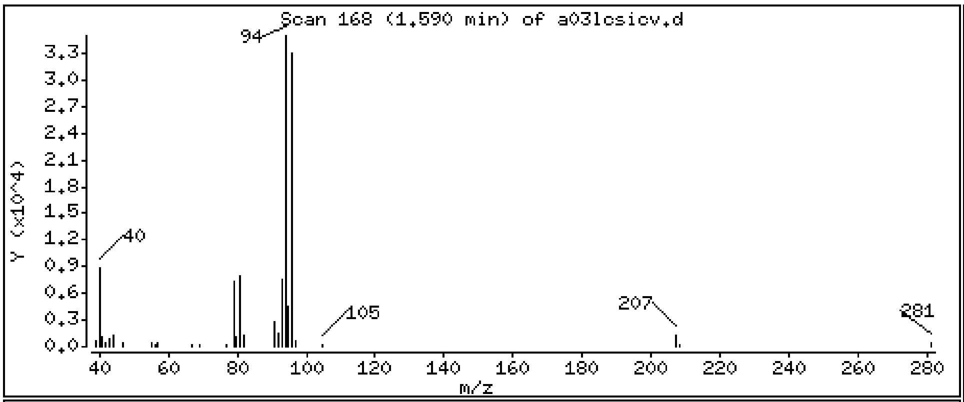
Client ID: Instrument: 50mvda.i

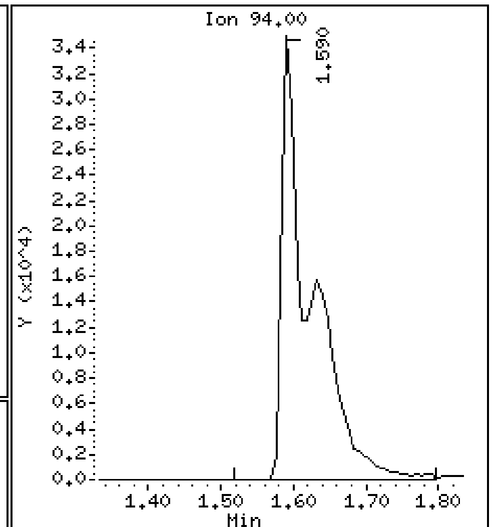
Sample Info: 8260-ICV

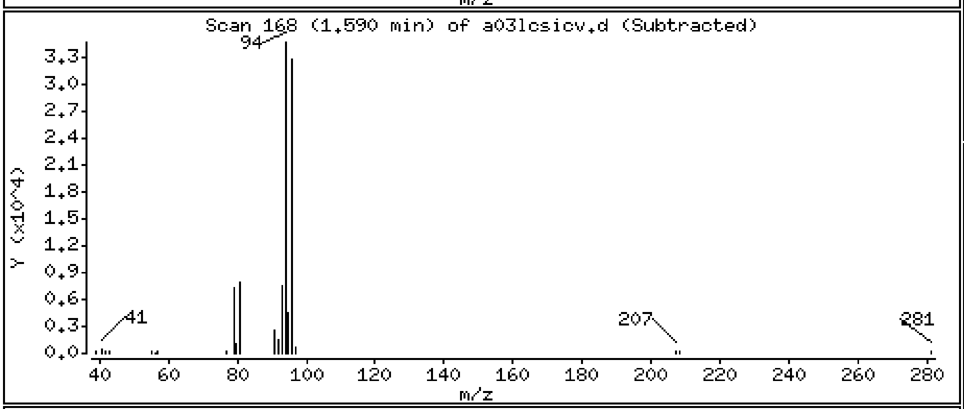
Purge Volume: 5.0 Operator: tkg

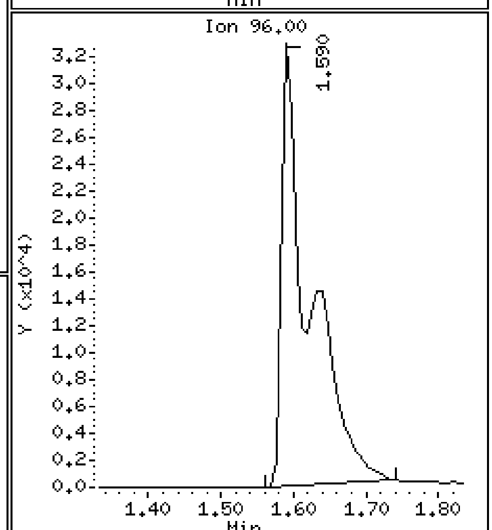
Column phase: DB-624 Column diameter: 0.18

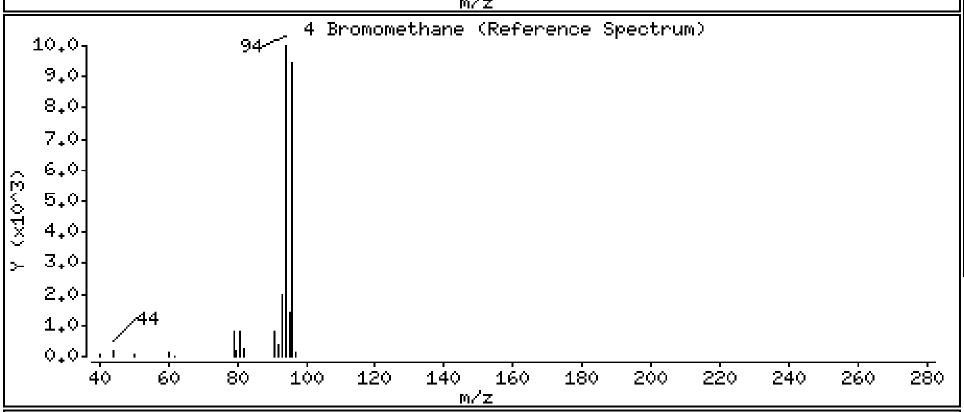
4 Bromomethane Concentration: 42.8 ppb Review Code: LT

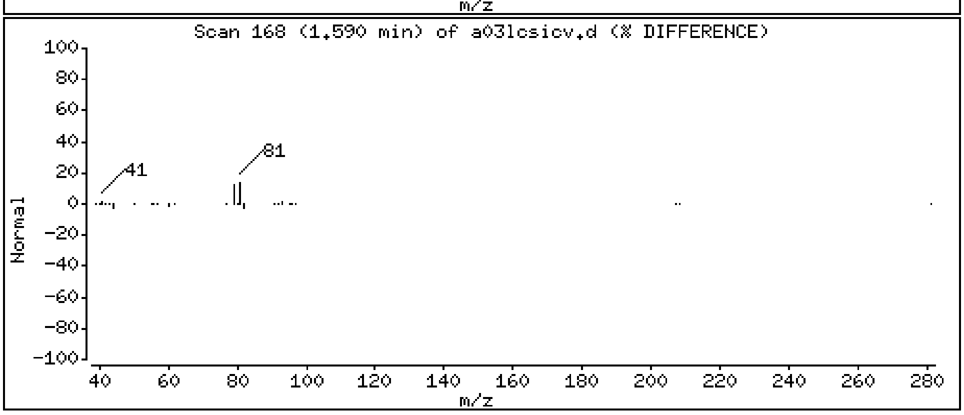












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

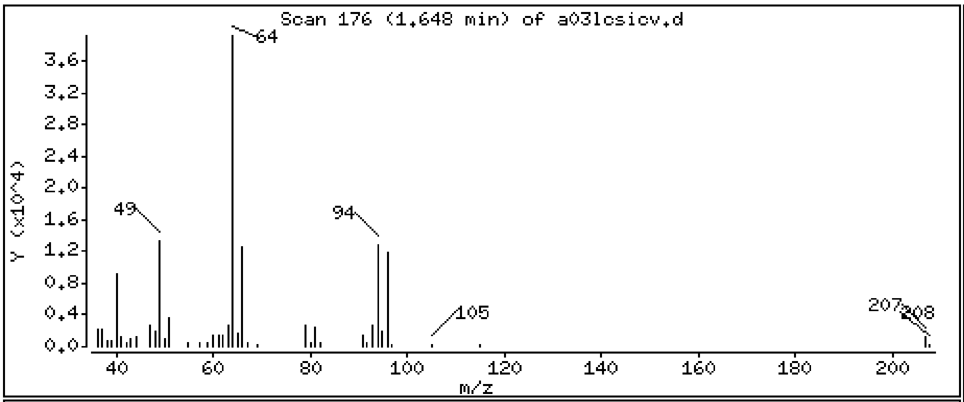
Column phase: DB-624

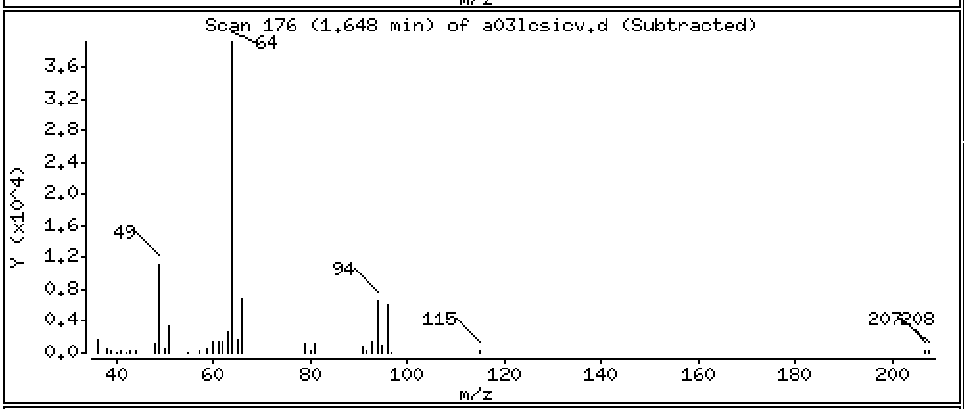
Column diameter: 0.18

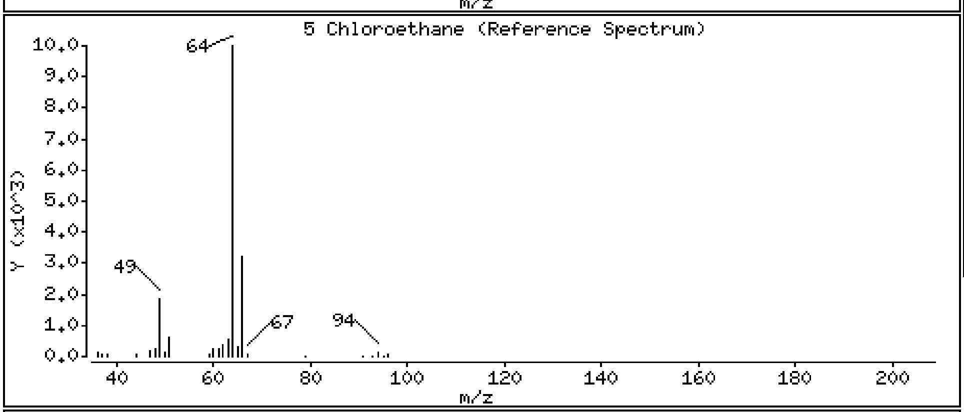
5 Chloroethane

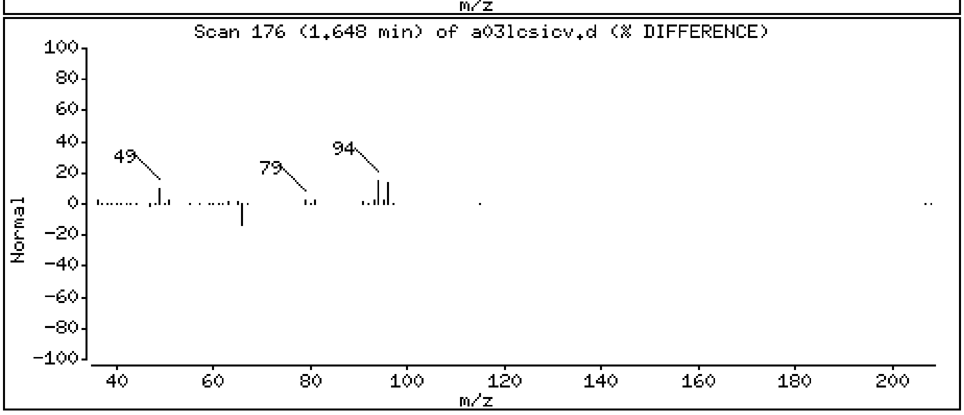
Concentration: 42.8 ppb

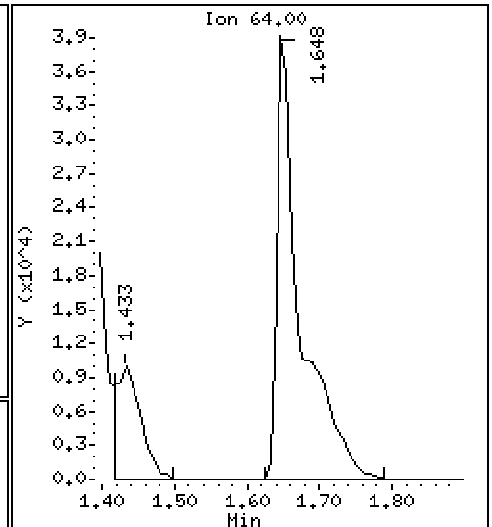
Review Code:

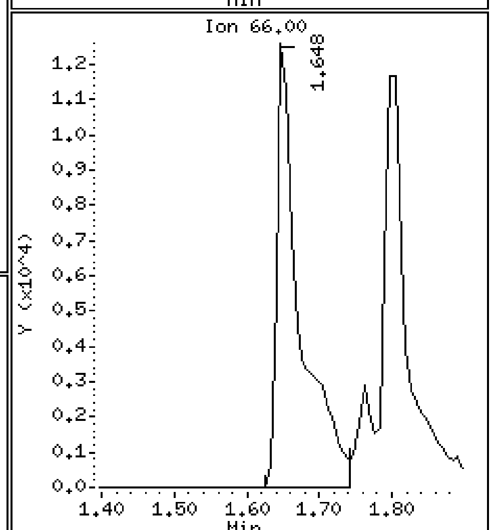












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Date : 23-JAN-2023 11:36

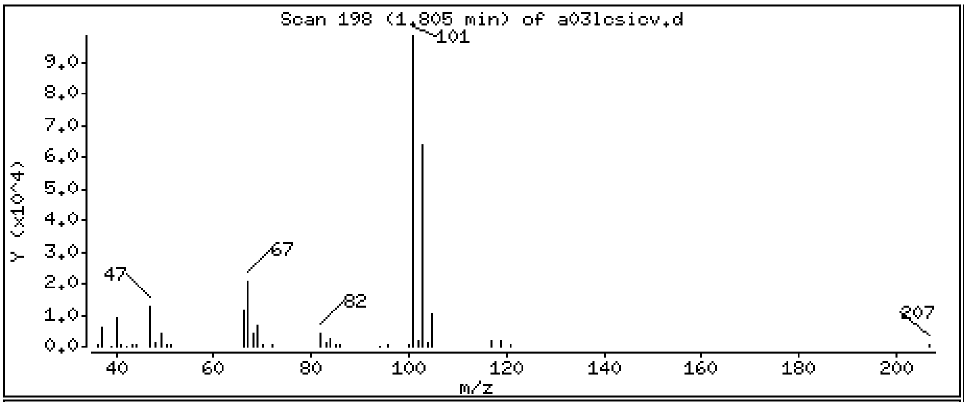
Client ID: Instrument: 50mvda.i

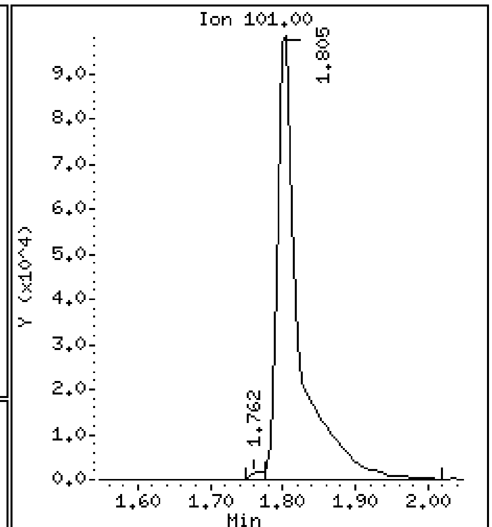
Sample Info: 8260-ICV

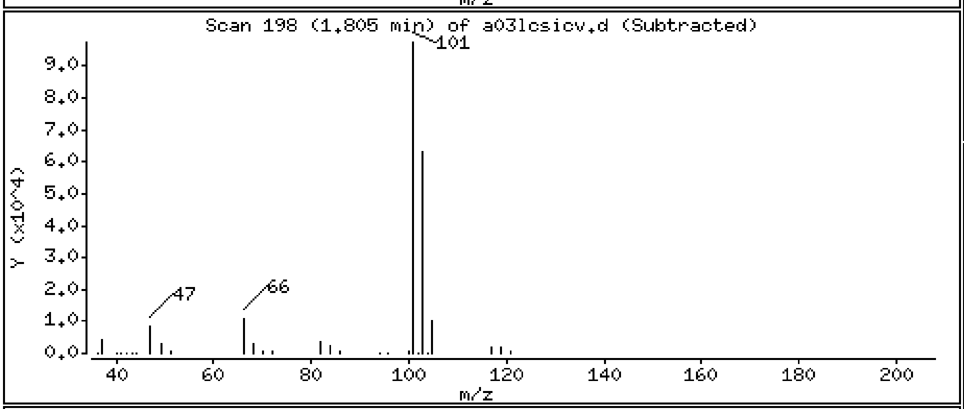
Purge Volume: 5.0 Operator: tkg

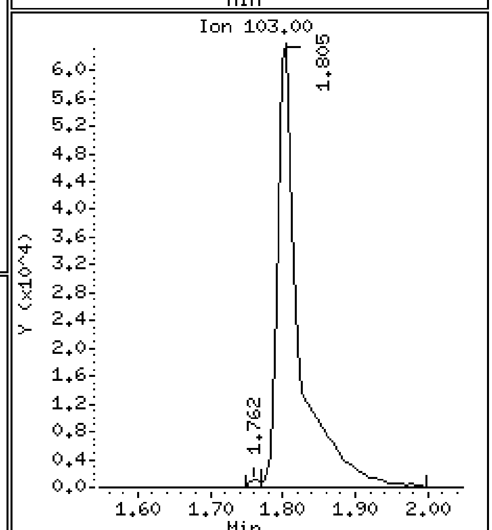
Column phase: DB-624 Column diameter: 0.18

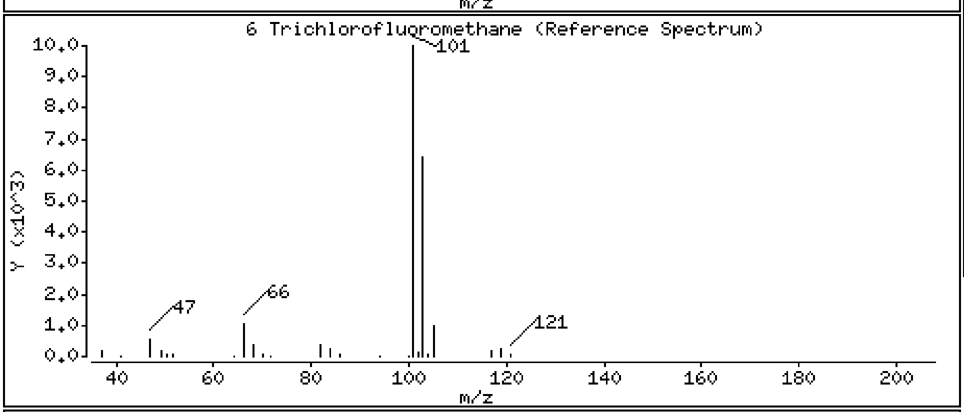
6 Trichlorofluoromethane Concentration: 49.9 ppb Review Code:

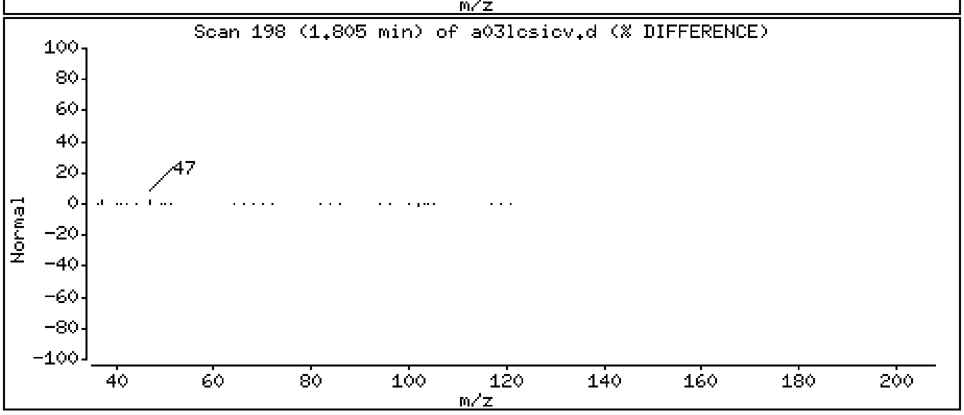












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Date : 23-JAN-2023 11:36

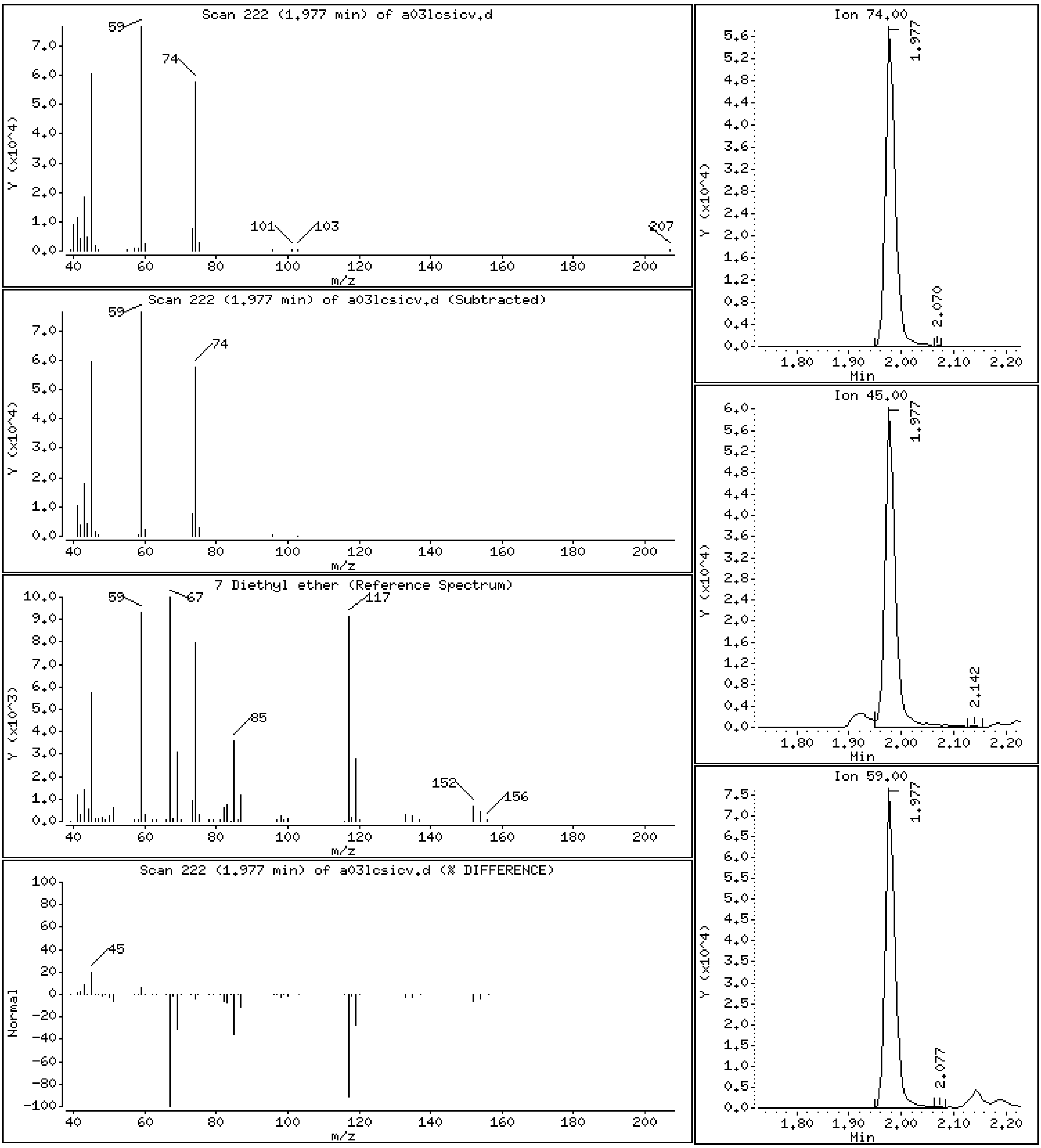
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

7 Diethyl ether Concentration: 41.7 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

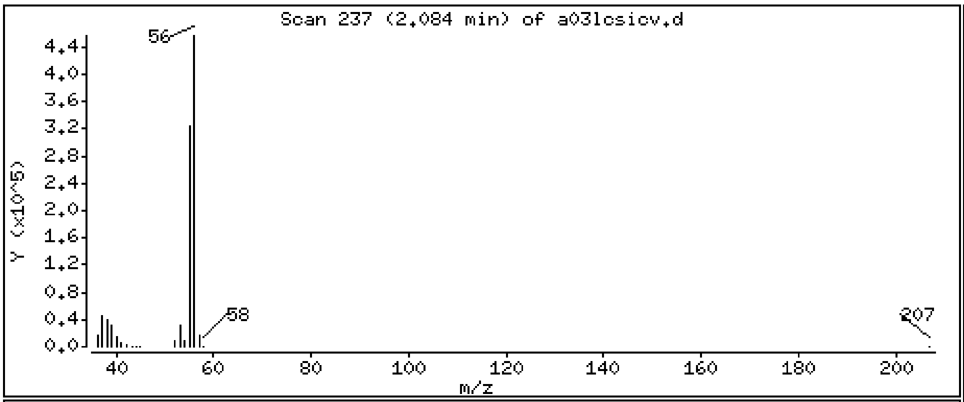
Column phase: DB-624

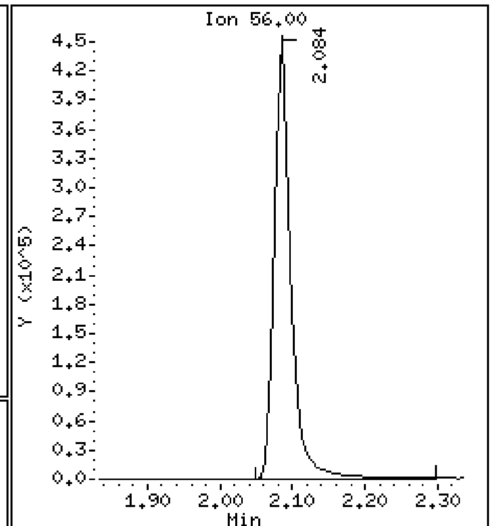
Column diameter: 0.18

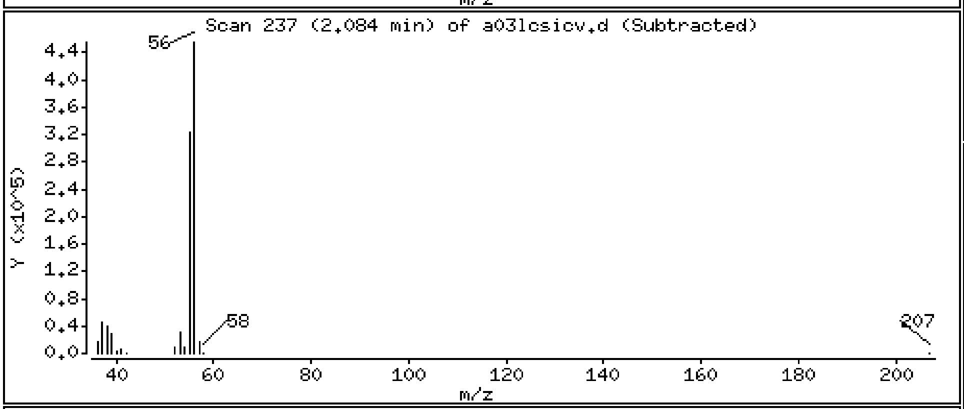
8 Acrolein

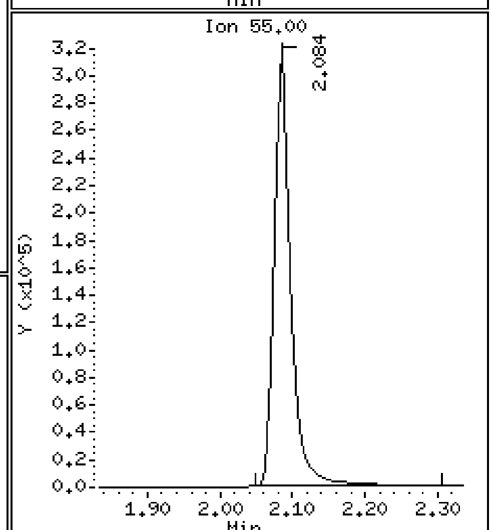
Concentration: 884 ppb

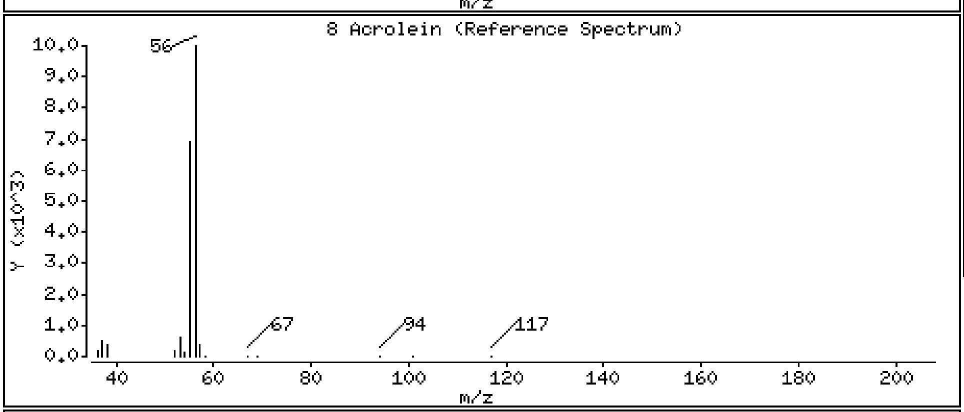
Review Code:

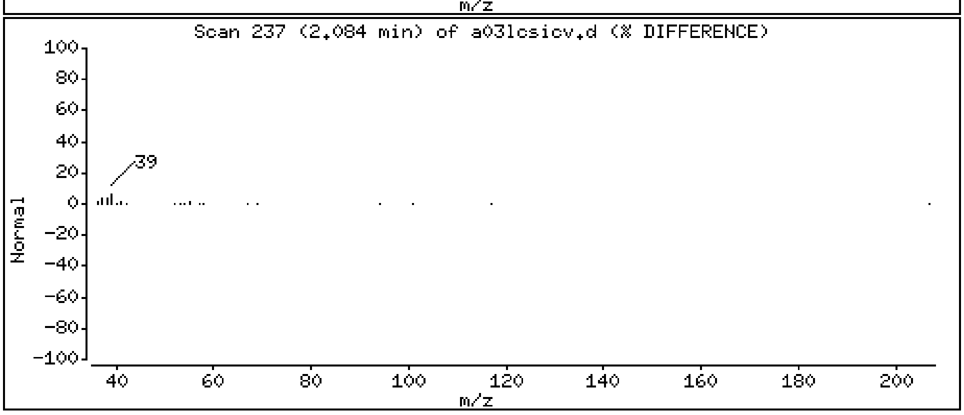












Date : 23-JAN-2023 11:36

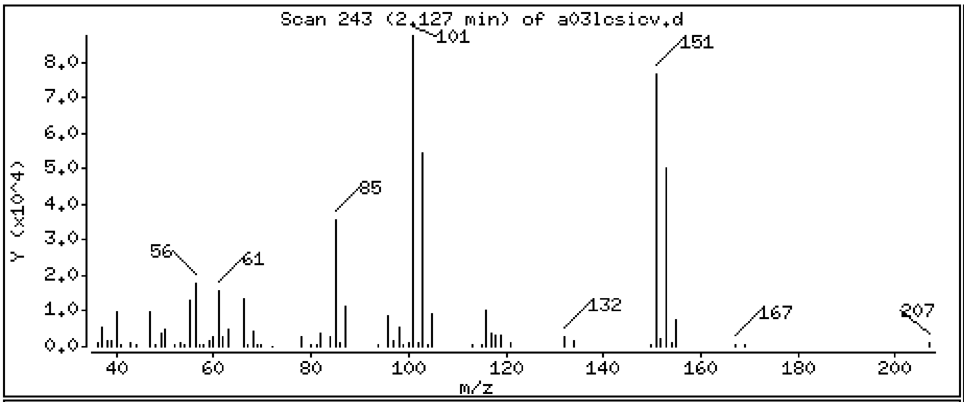
Client ID: Instrument: 50mvda.i

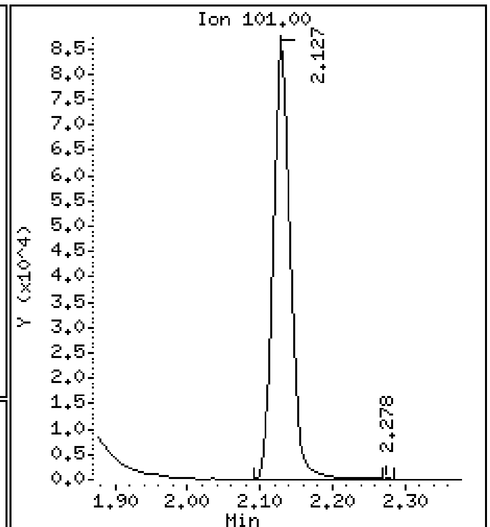
Sample Info: 8260-ICV

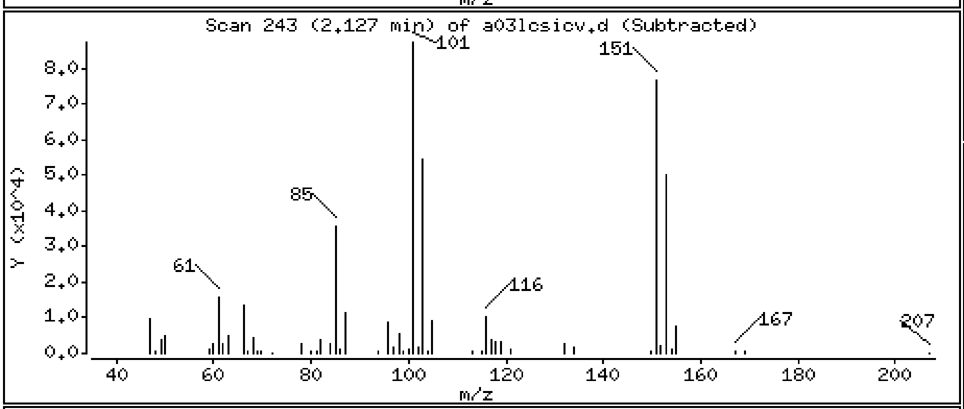
Purge Volume: 5.0 Operator: tkg

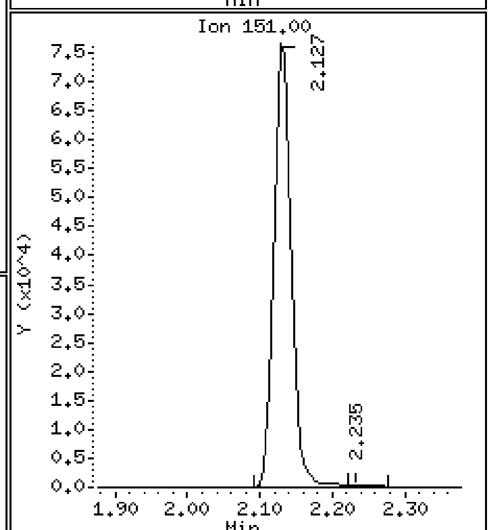
Column phase: DB-624 Column diameter: 0.18

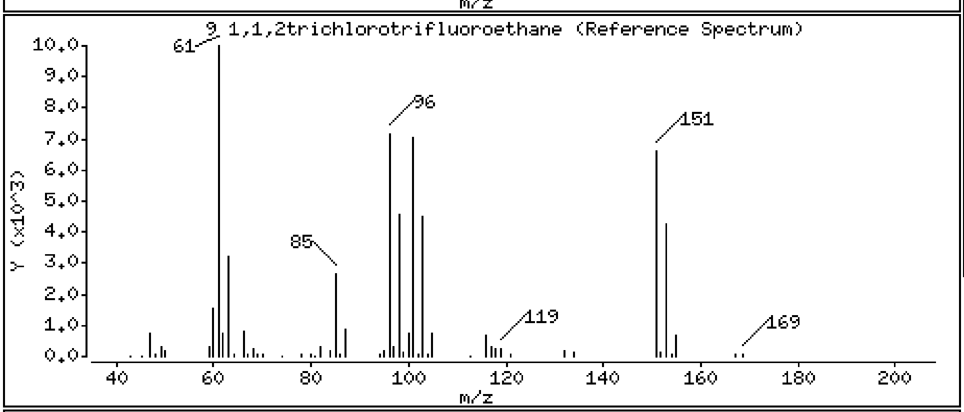
9 1,1,2trichlorotrifluoroethane Concentration: 52.1 ppb Review Code:

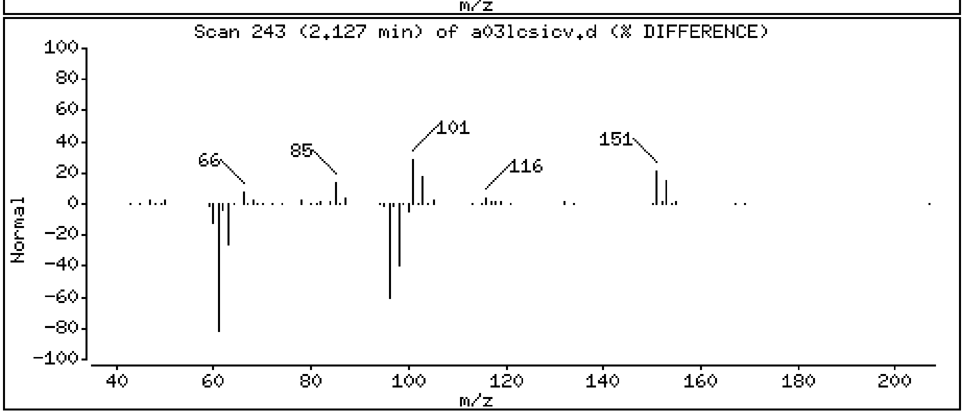












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

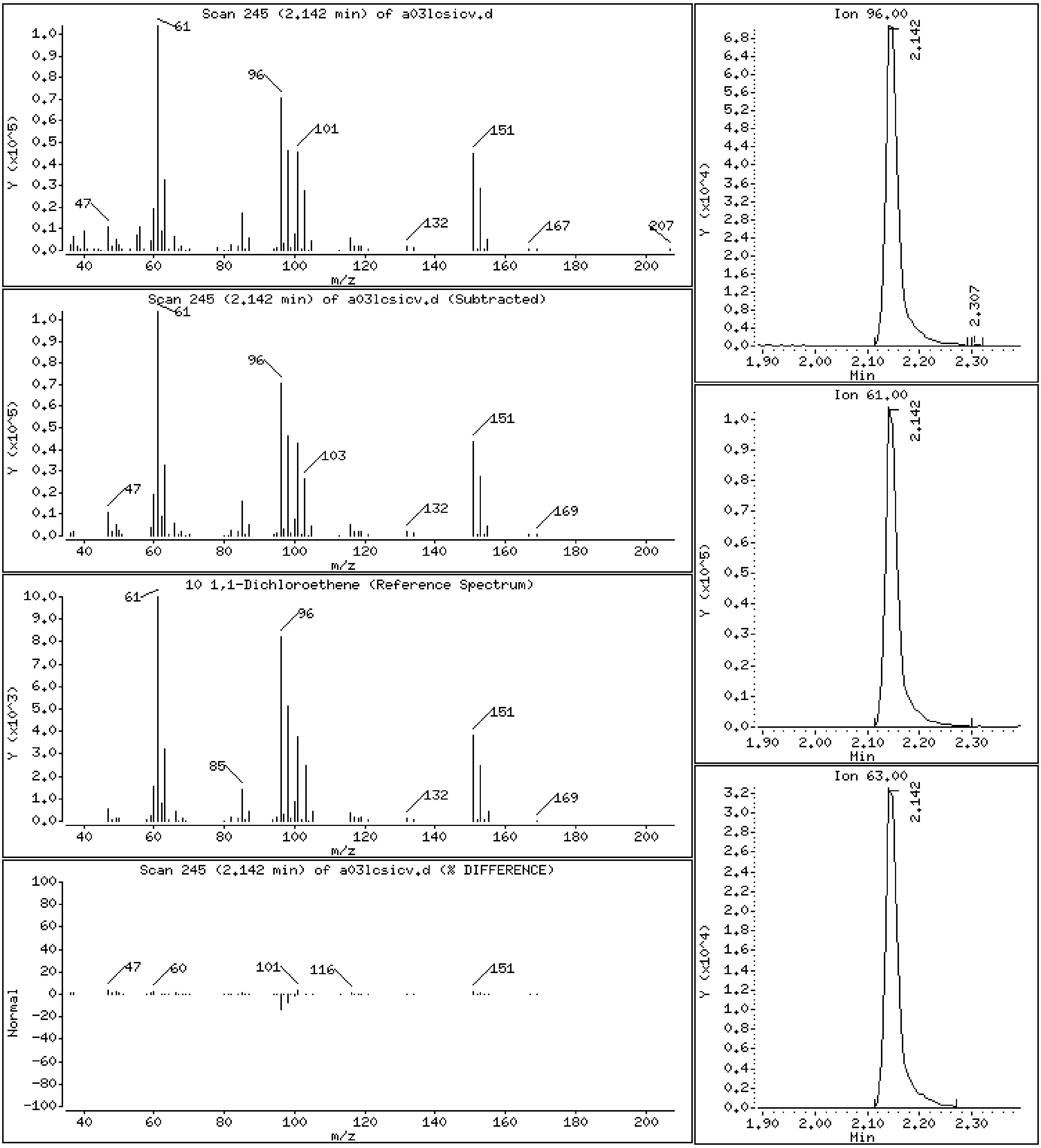
Column phase: DB-624

Column diameter: 0.18

10 1,1-Dichloroethene

Concentration: 44.4 ppb

Review Code:



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Date : 23-JAN-2023 11:36

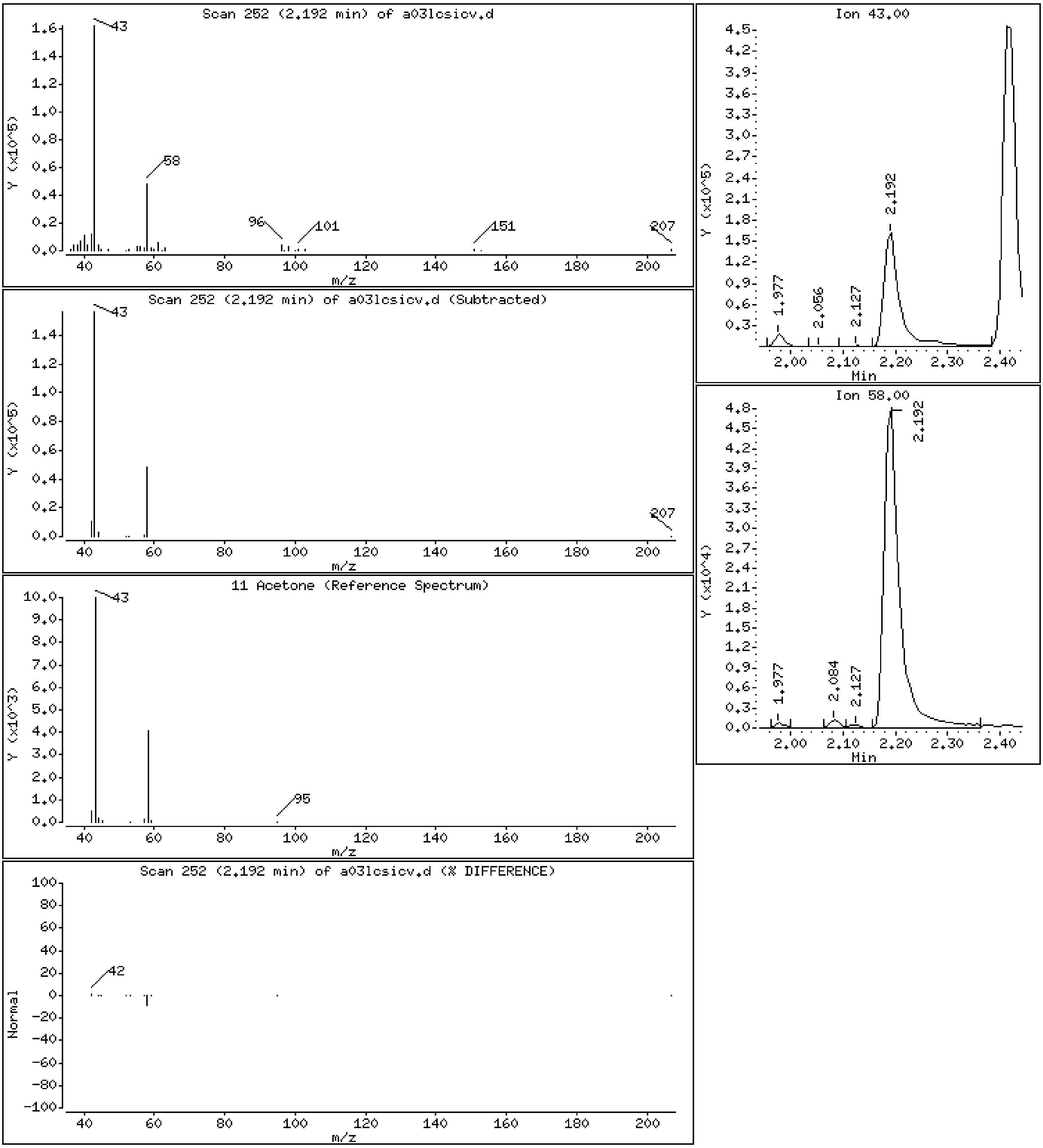
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

11 Acetone Concentration: 204 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

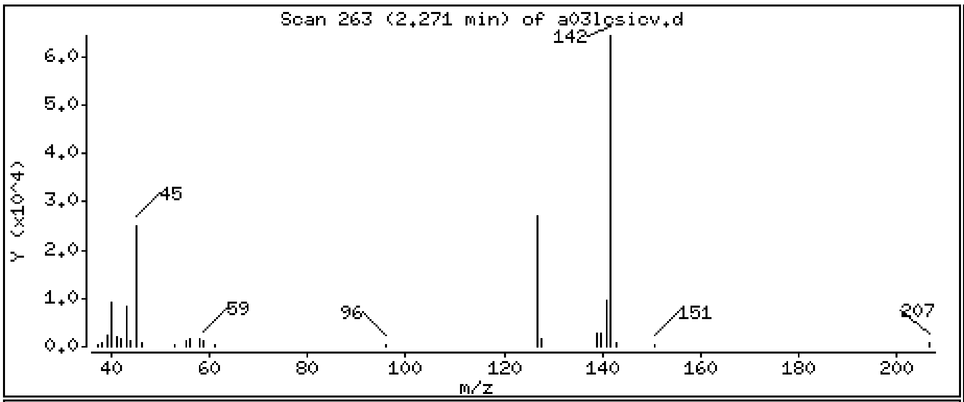
Column phase: DB-624

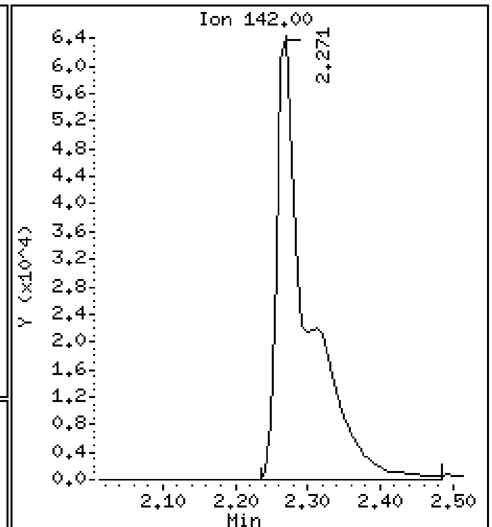
Column diameter: 0.18

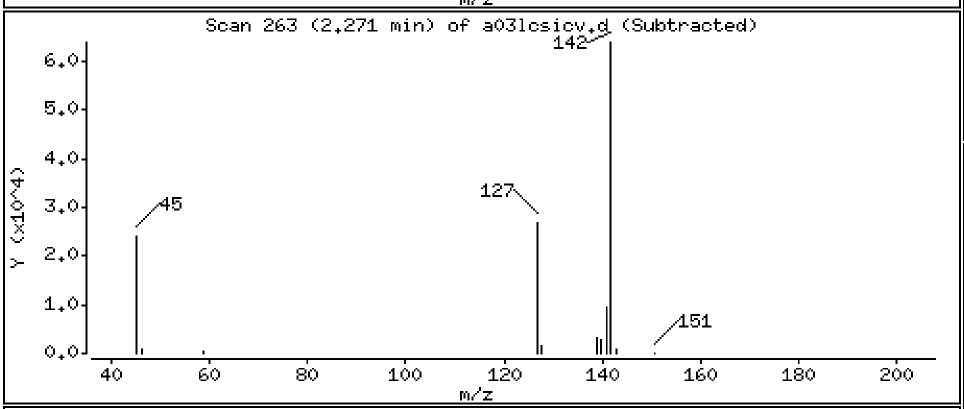
12 Iodomethane

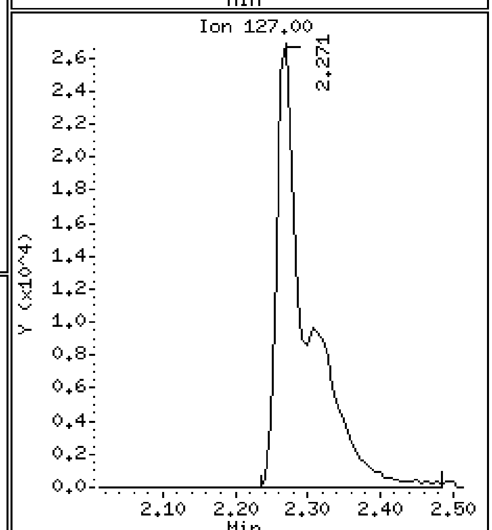
Concentration: 72.1 ppb

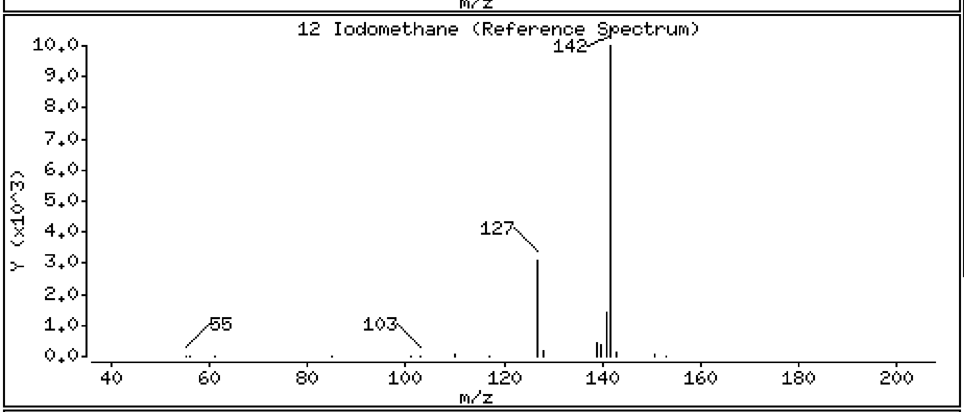
Review Code:

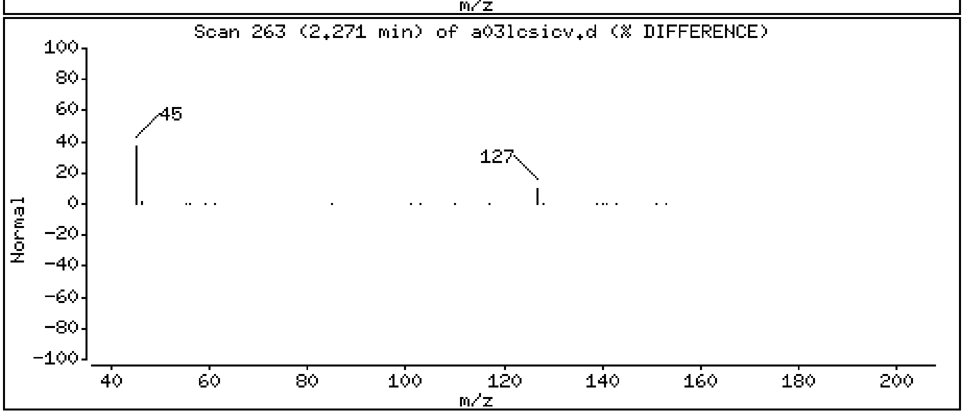












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Date : 23-JAN-2023 11:36

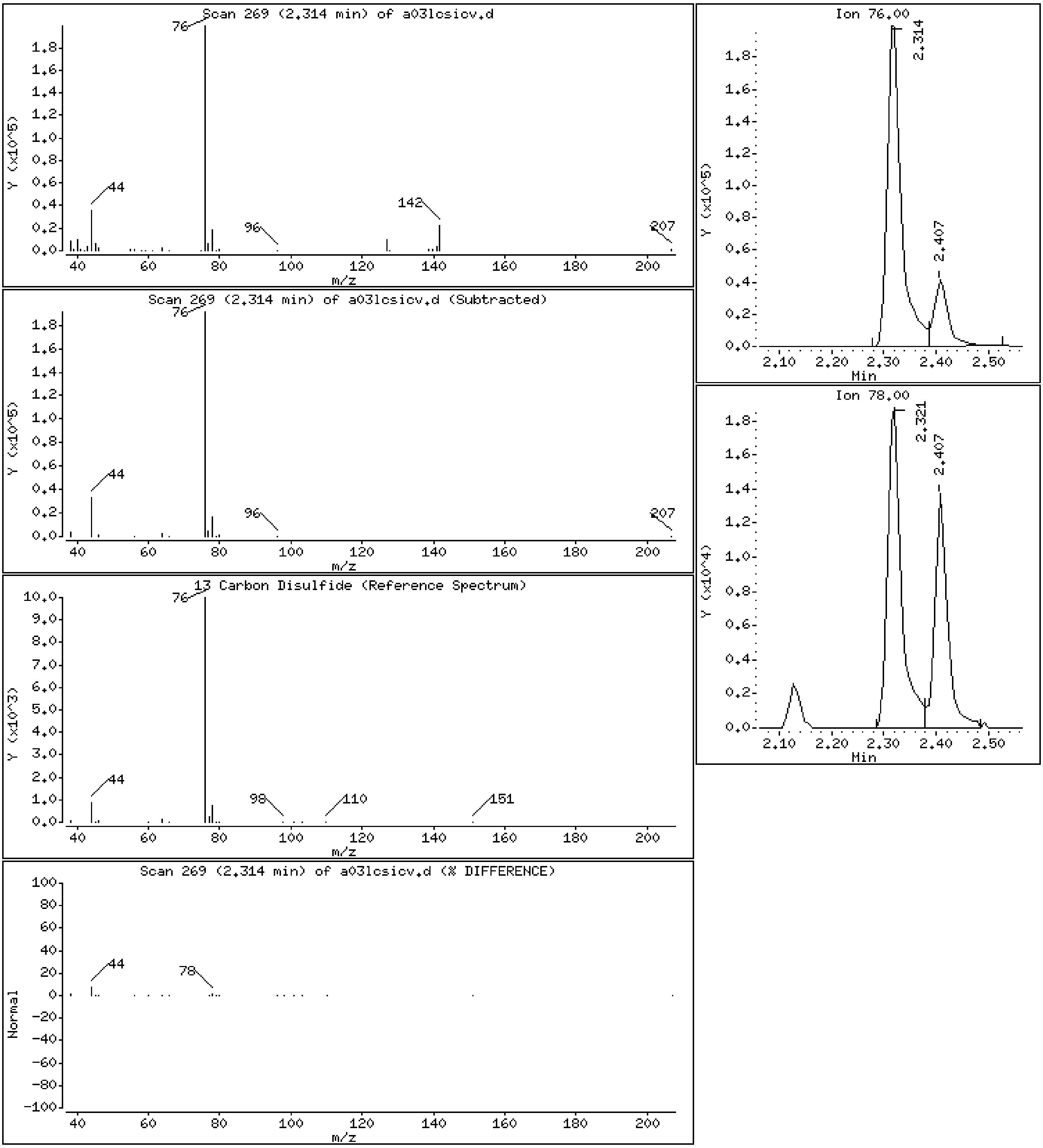
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

13 Carbon Disulfide Concentration: 44.7 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

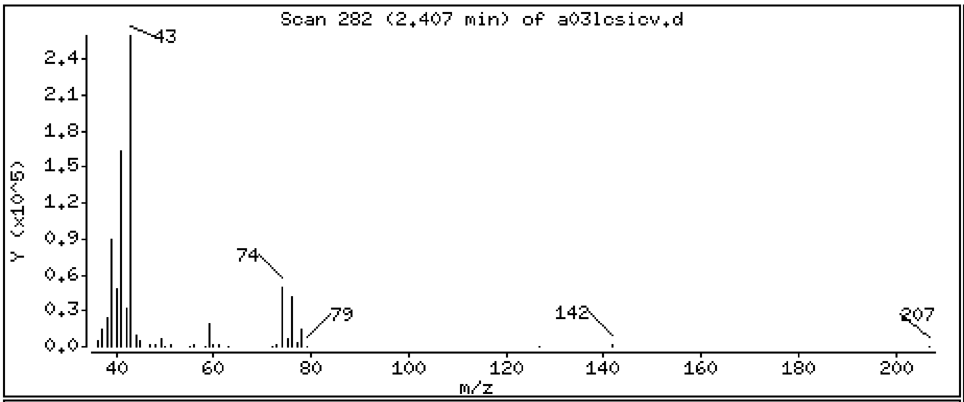
Column phase: DB-624

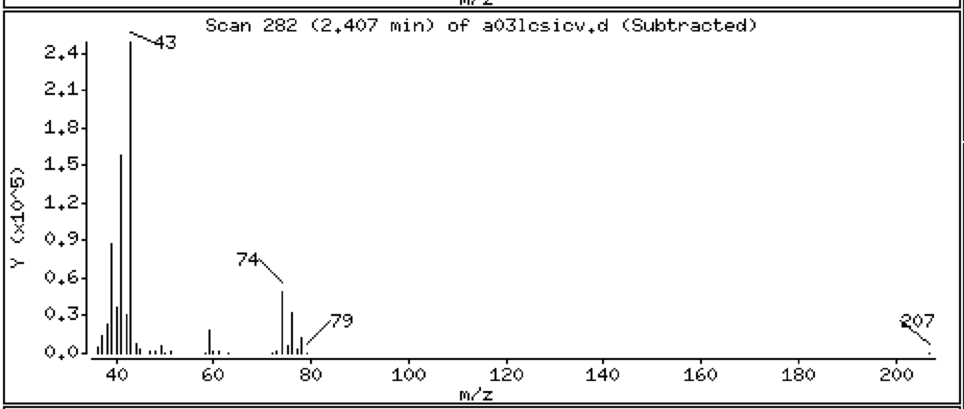
Column diameter: 0.18

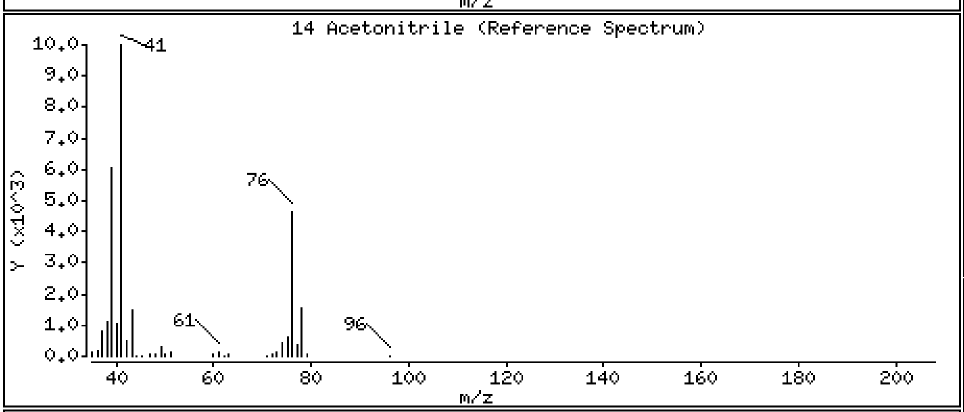
14 Acetonitrile

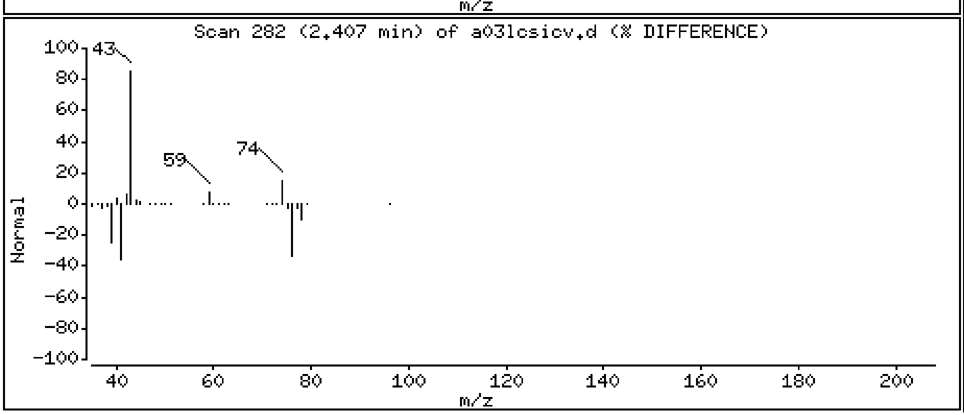
Concentration: 227 ppb

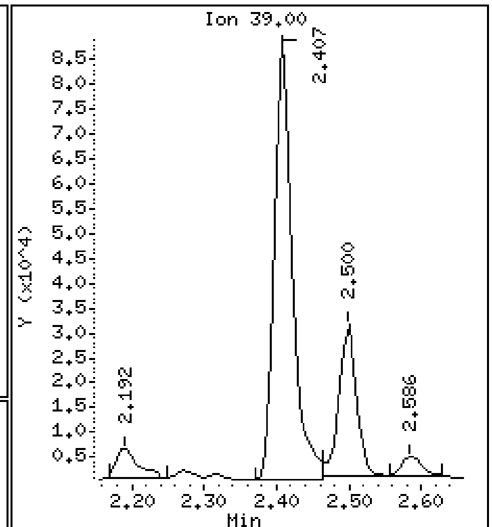
Review Code:

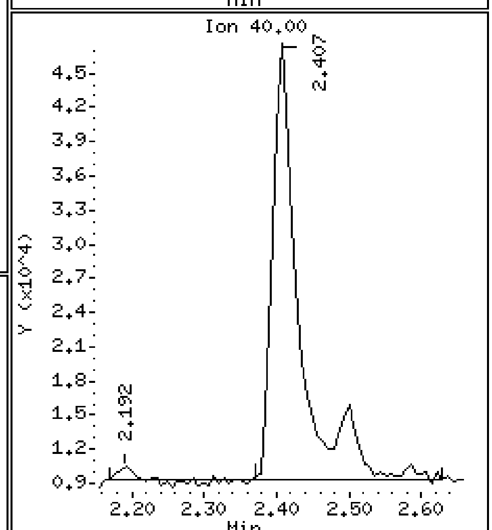


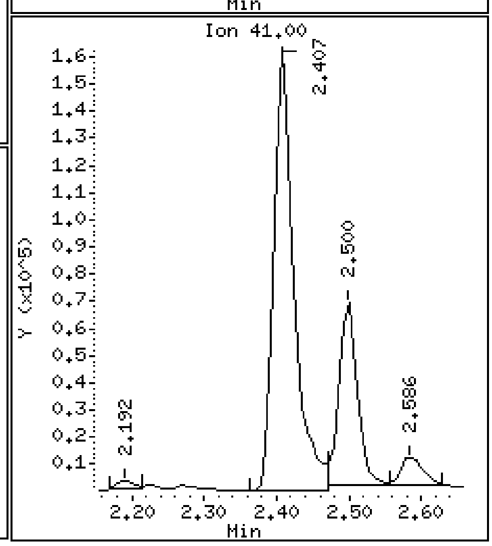












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Date : 23-JAN-2023 11:36

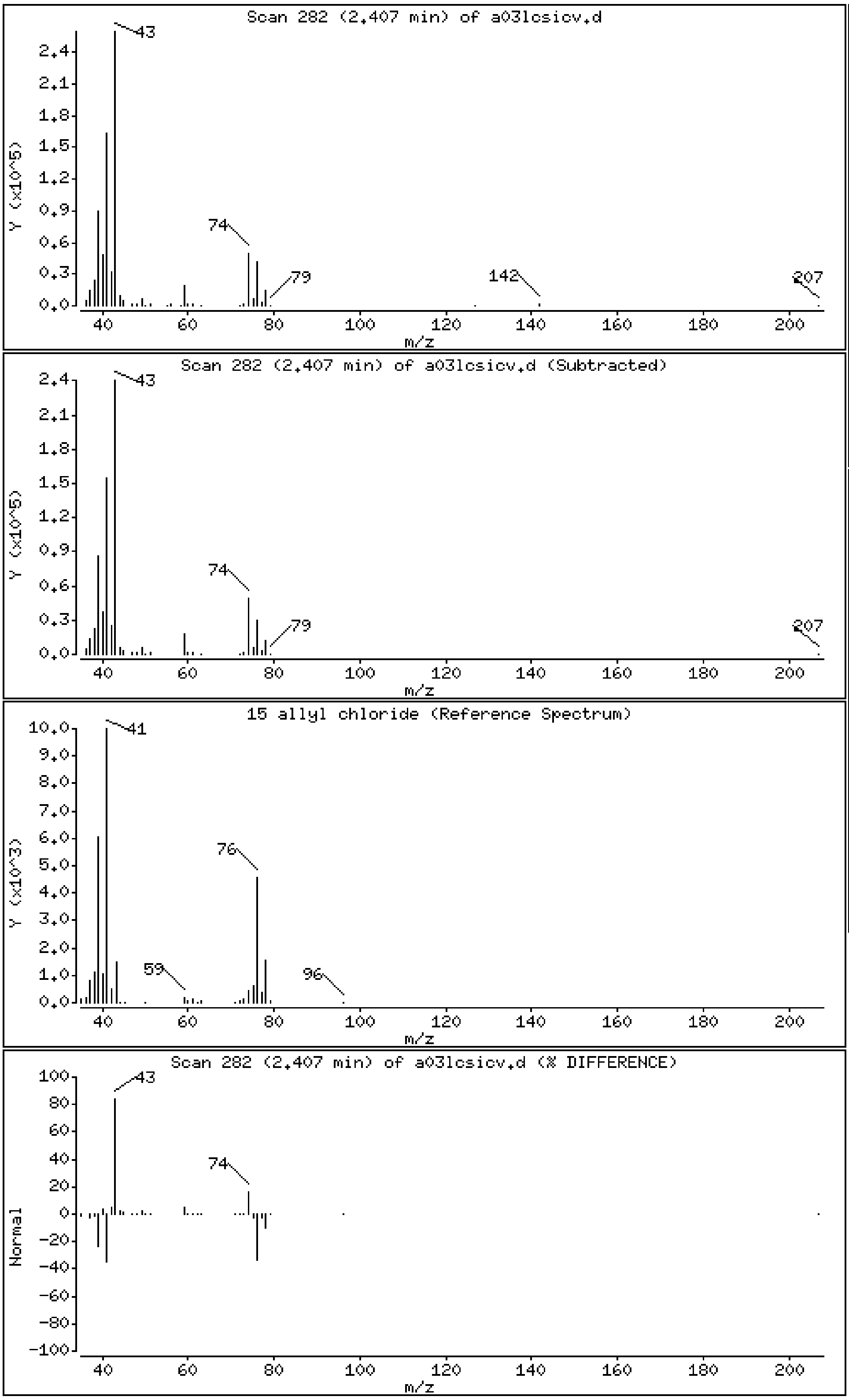
Client ID: Instrument: 50mvda.i

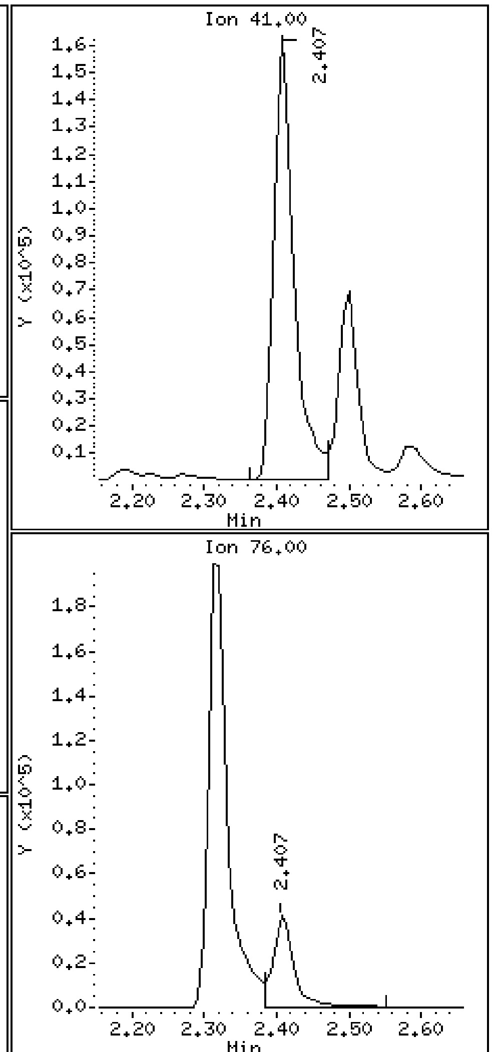
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

15 allyl chloride Concentration: 41.3 ppb Review Code:





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Date : 23-JAN-2023 11:36

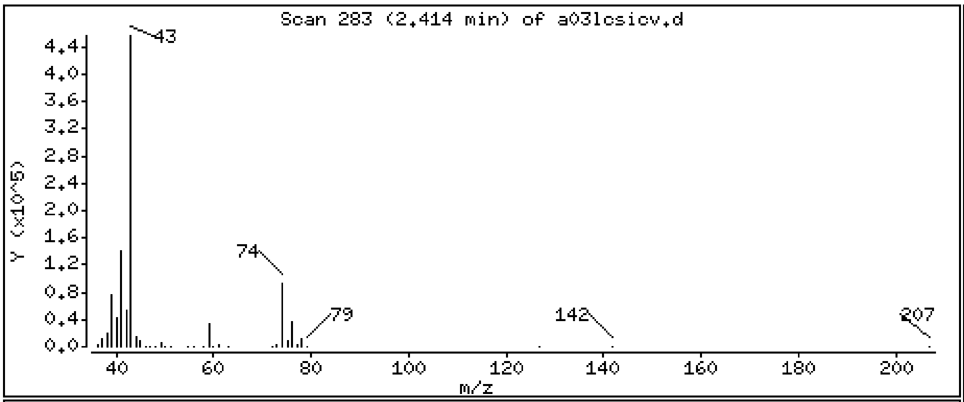
Client ID: Instrument: 50mvda.i

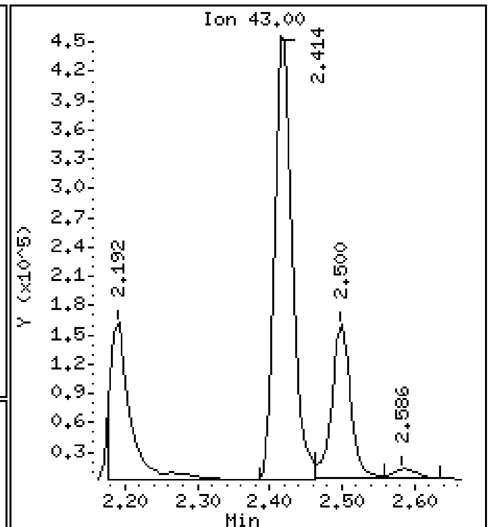
Sample Info: 8260-ICV

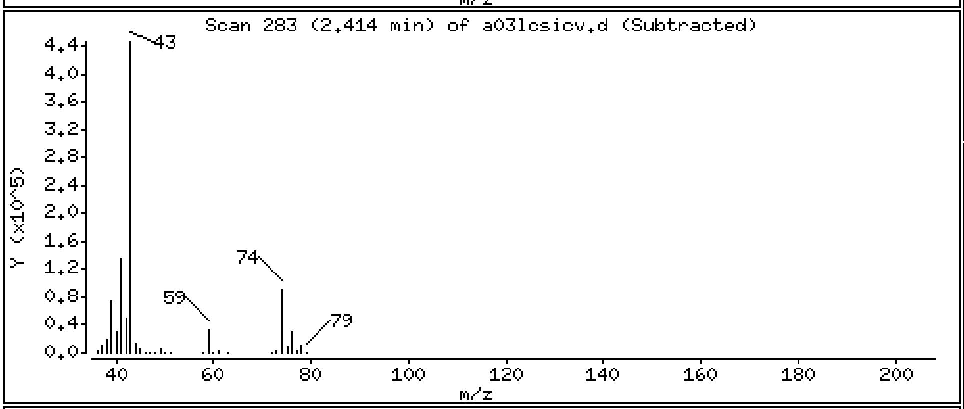
Purge Volume: 5.0 Operator: tkg

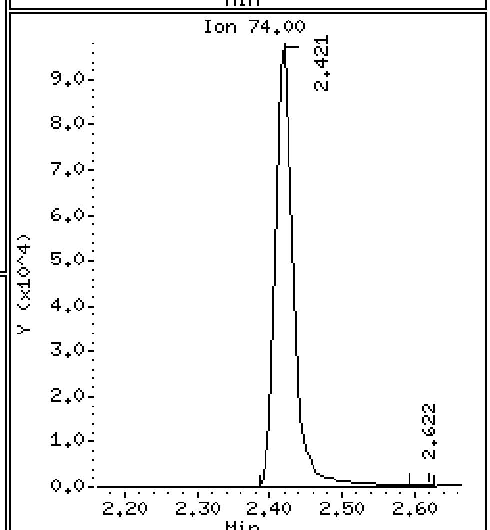
Column phase: DB-624 Column diameter: 0.18

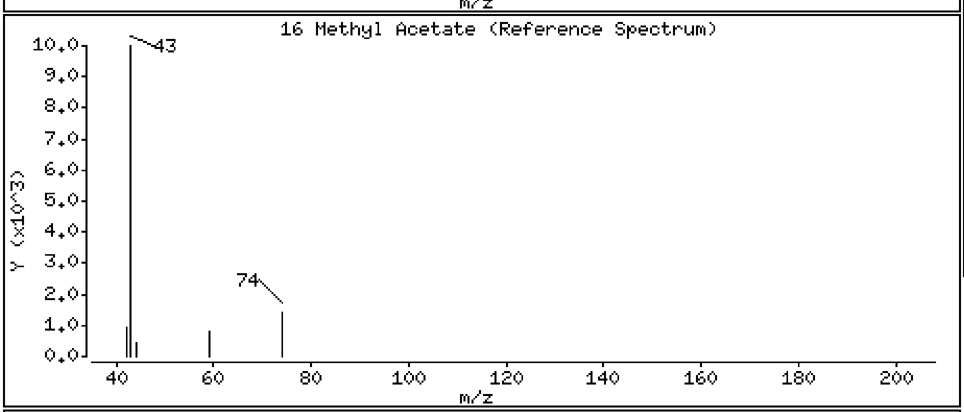
16 Methyl Acetate Concentration: 208 ppb Review Code:

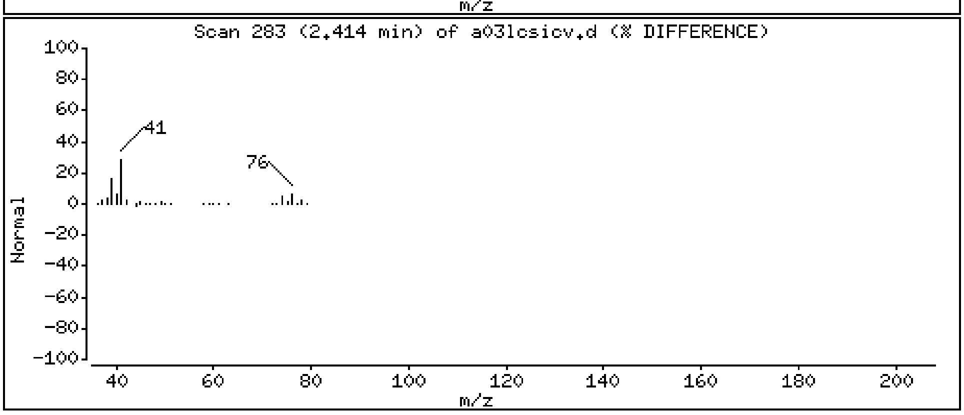












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

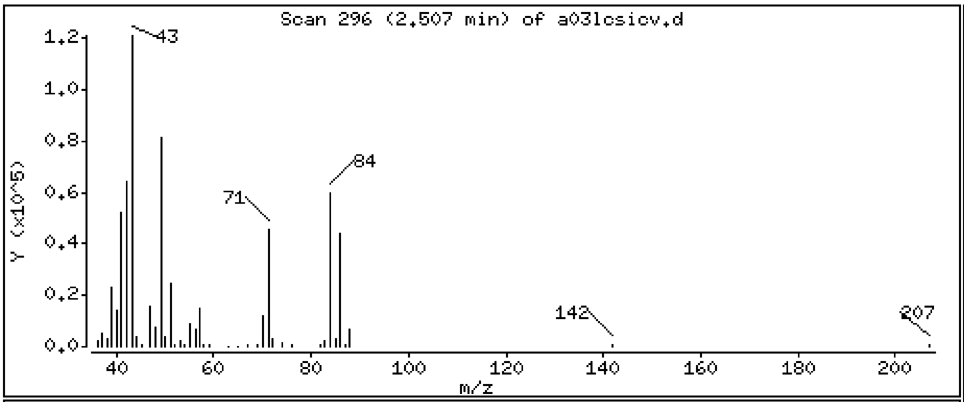
Column phase: DB-624

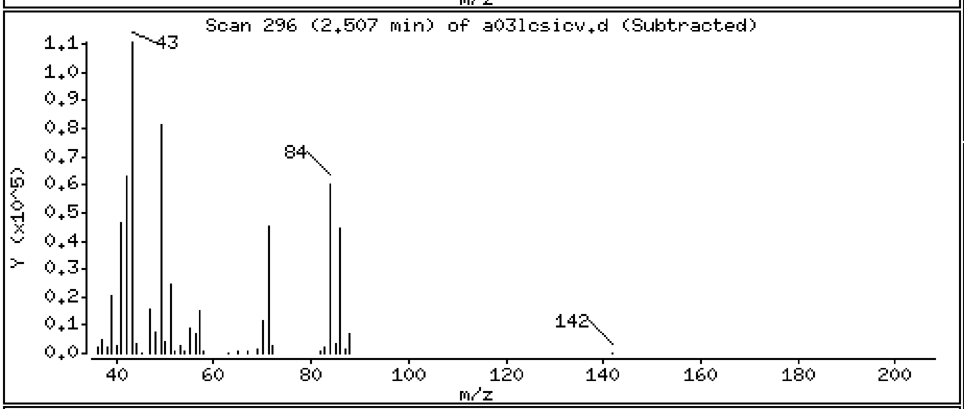
Column diameter: 0.18

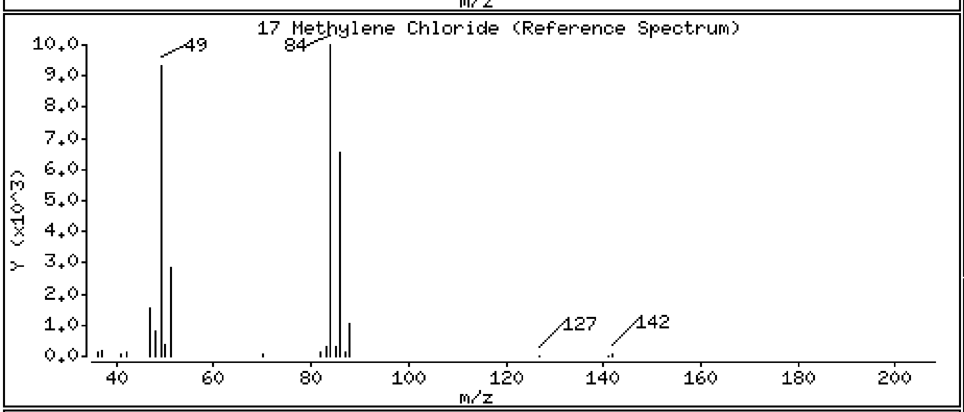
17 Methylene Chloride

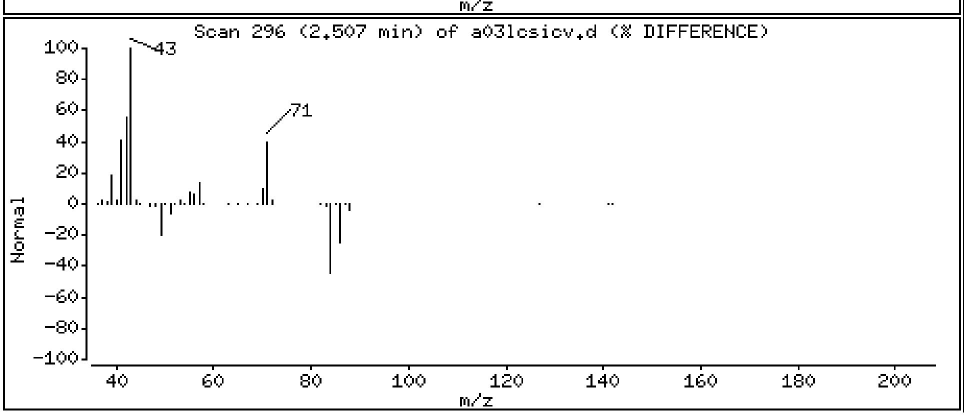
Concentration: 45.3 ppb

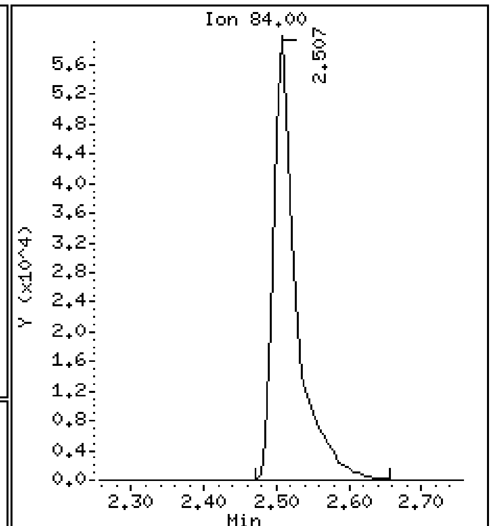
Review Code:

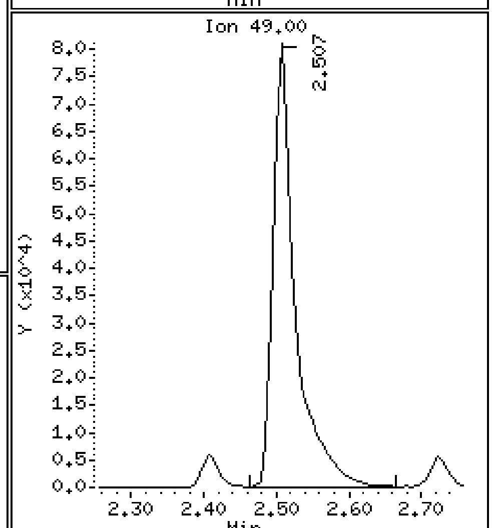


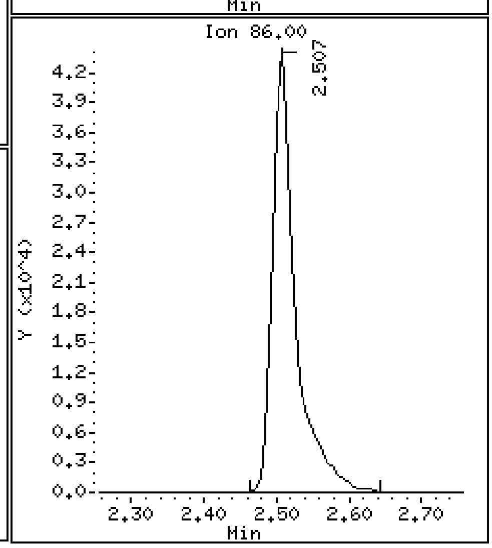












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Date : 23-JAN-2023 11:36

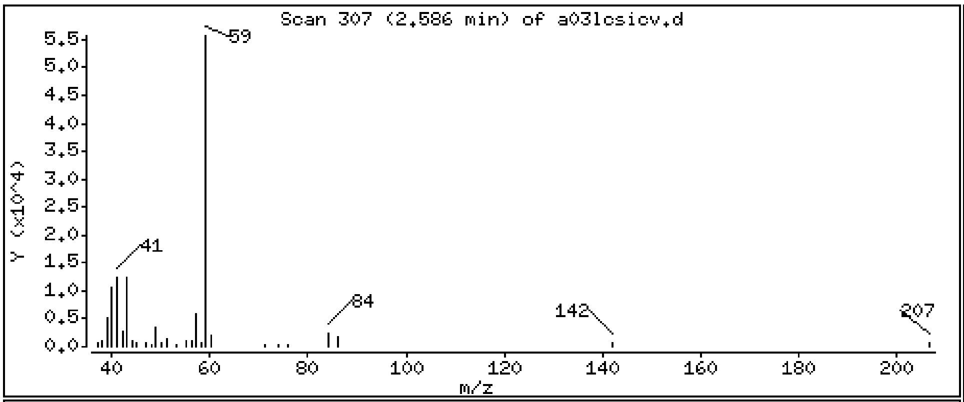
Client ID: Instrument: 50mvda.i

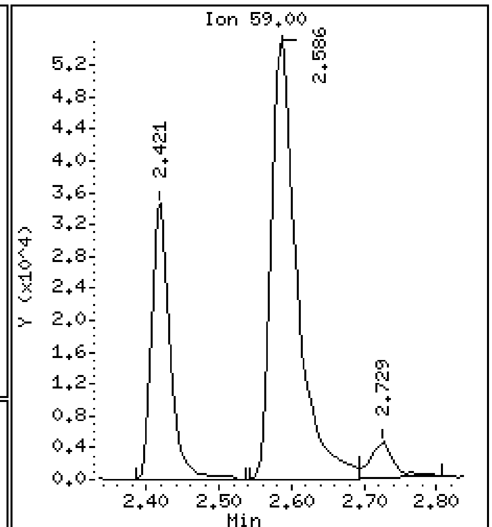
Sample Info: 8260-ICV

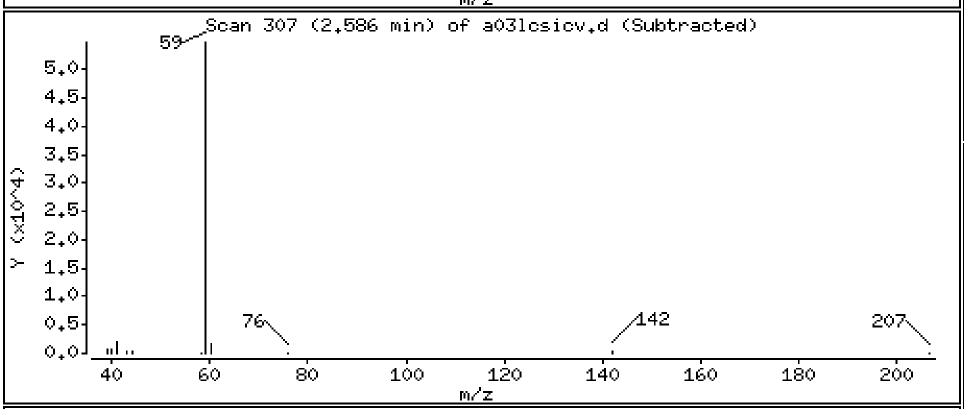
Purge Volume: 5.0 Operator: tkg

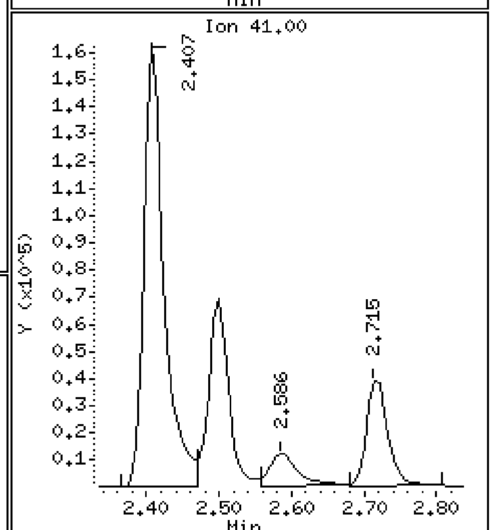
Column phase: DB-624 Column diameter: 0.18

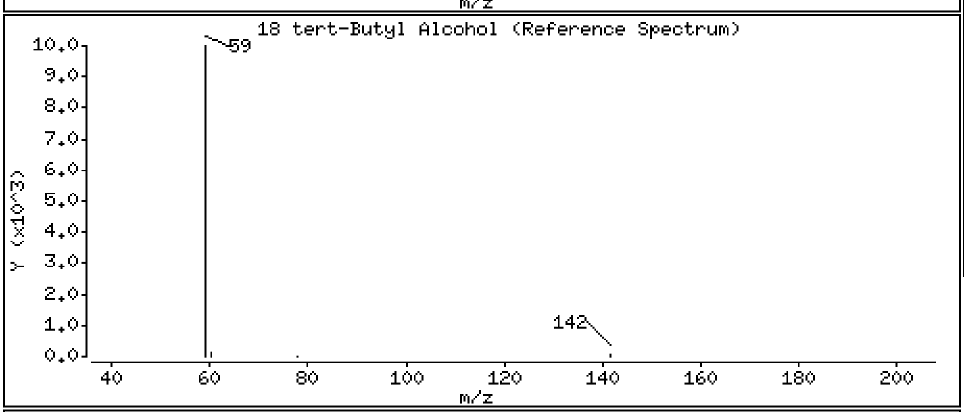
18 tert-Butyl Alcohol Concentration: 239 ppb Review Code:

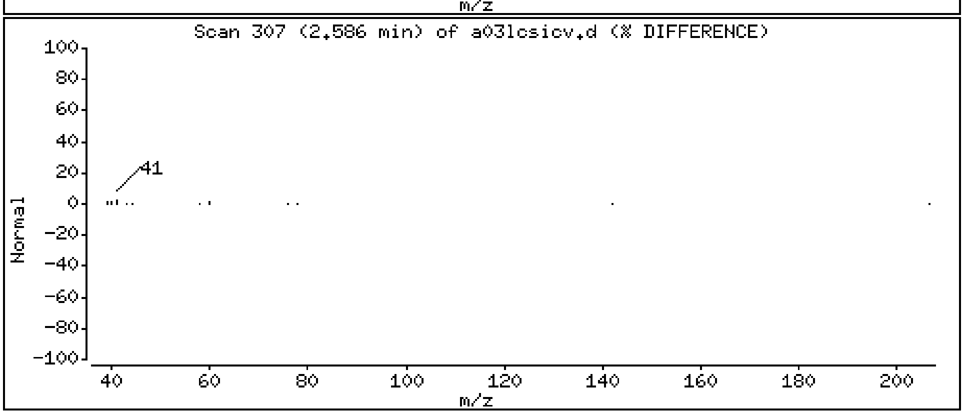












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Date : 23-JAN-2023 11:36

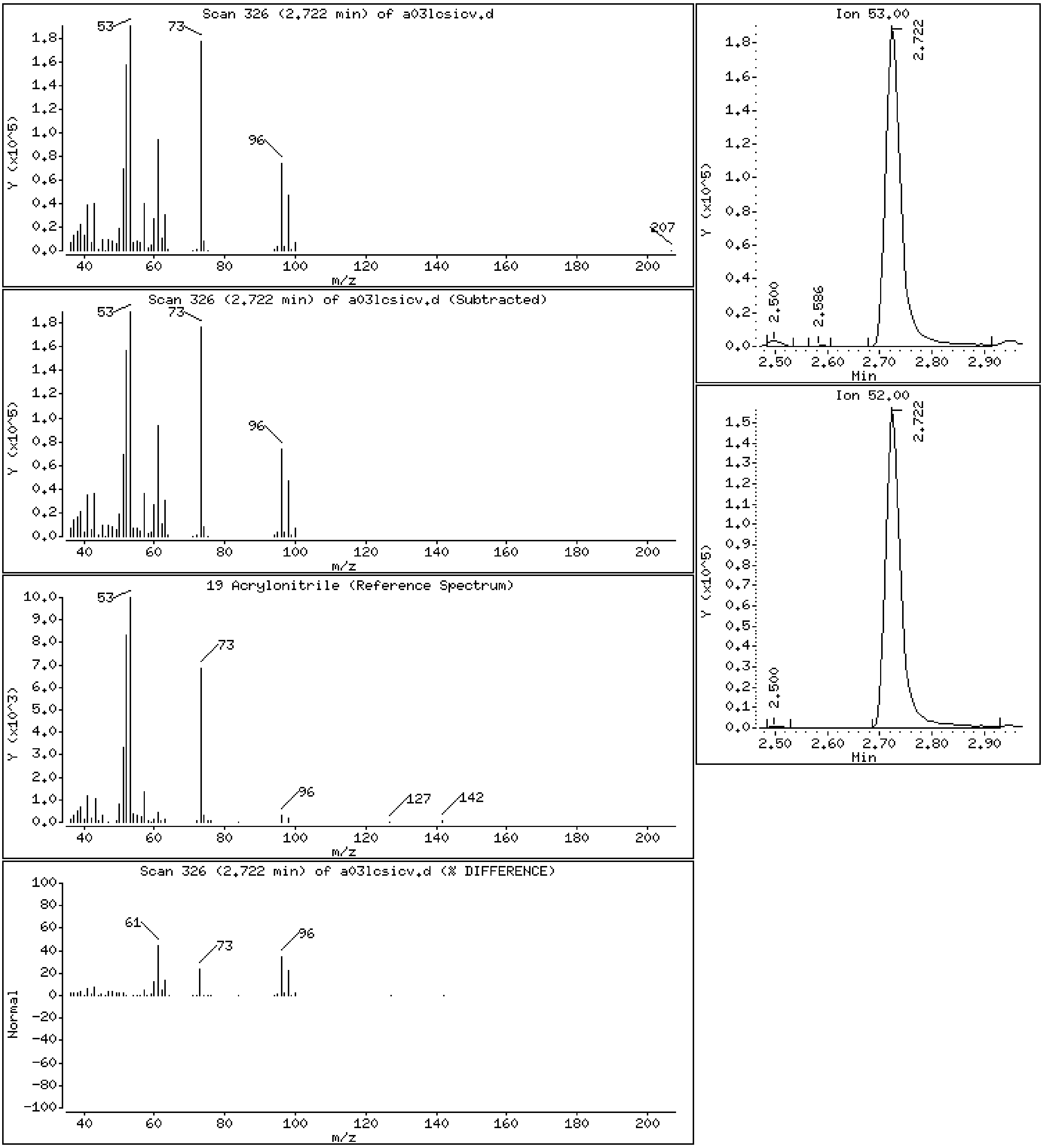
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

19 Acrylonitrile Concentration: 222 ppb Review Code:



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Date : 23-JAN-2023 11:36

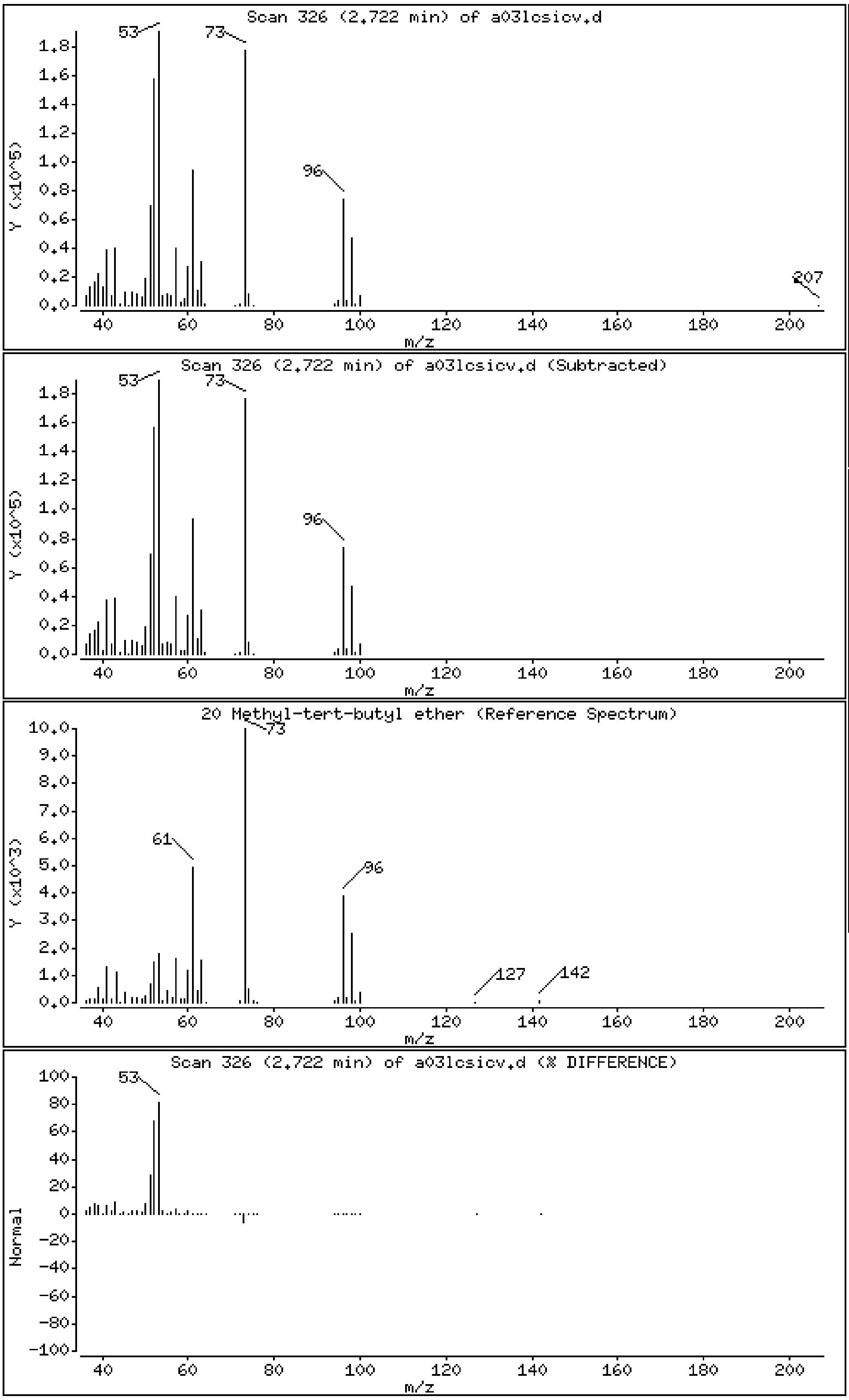
Client ID: Instrument: 50mvda.i

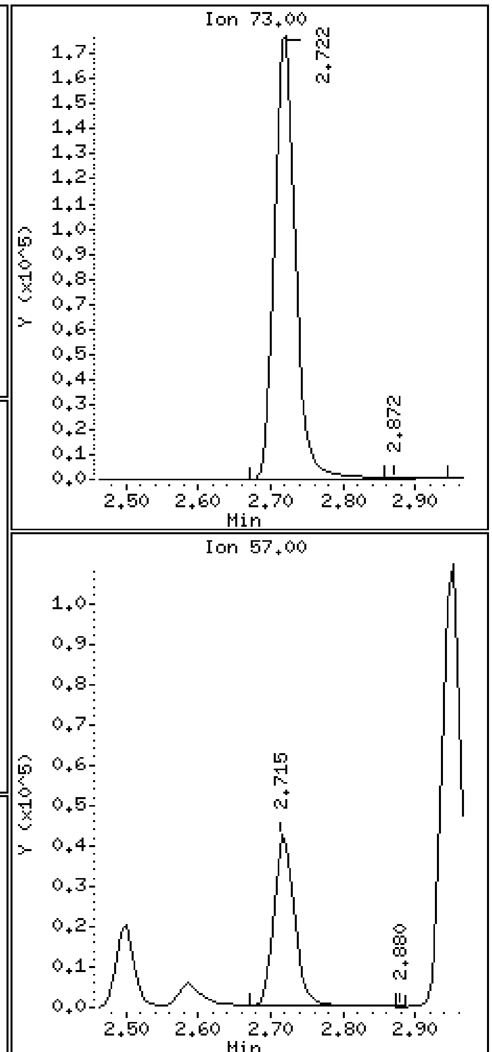
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

20 Methyl-tert-butyl ether Concentration: 42.6 ppb Review Code:





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Date : 23-JAN-2023 11:36

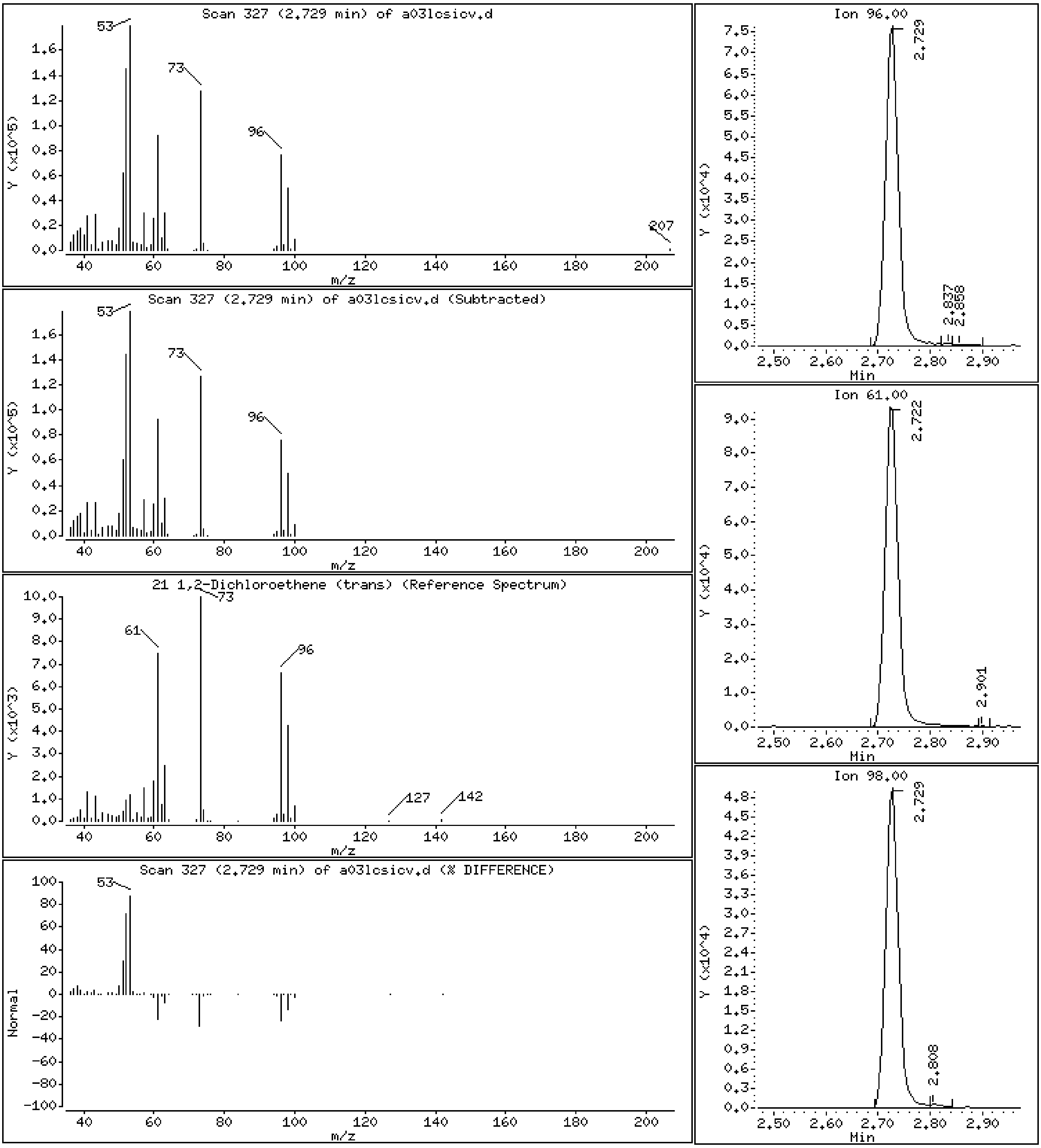
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

21 1,2-Dichloroethene (trans) Concentration: 41.1 ppb Review Code:



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Date : 23-JAN-2023 11:36

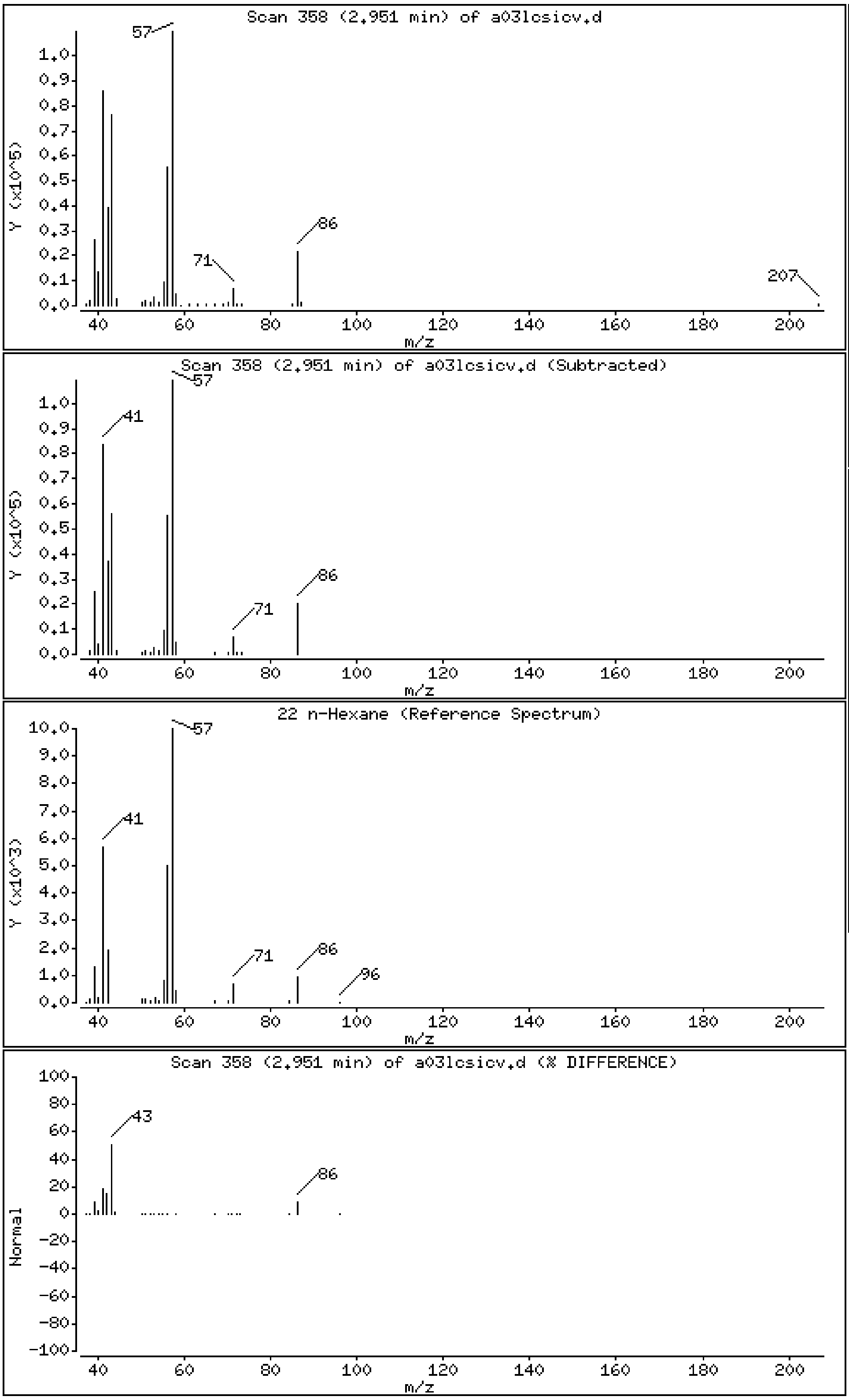
Client ID: Instrument: 50mvda.i

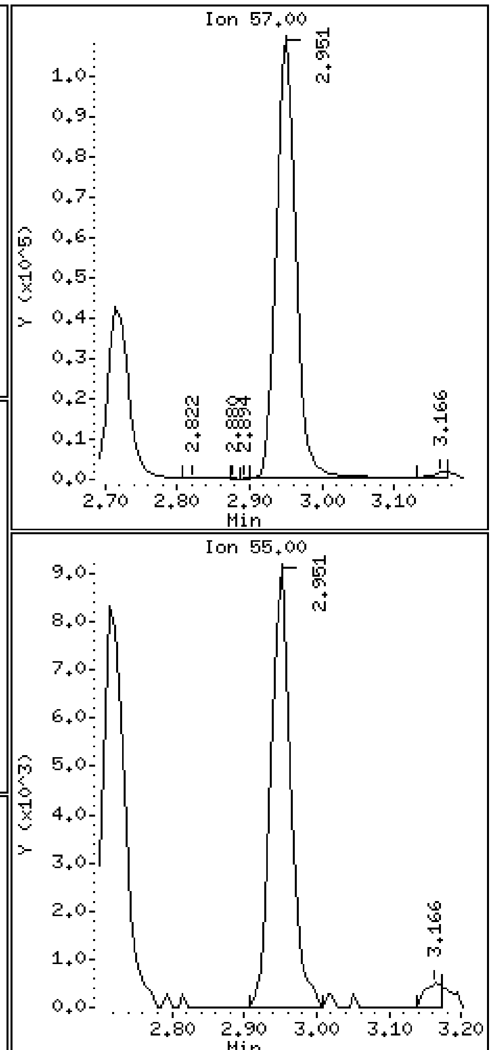
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

22 n-Hexane Concentration: 40.9 ppb Review Code:





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Date : 23-JAN-2023 11:36

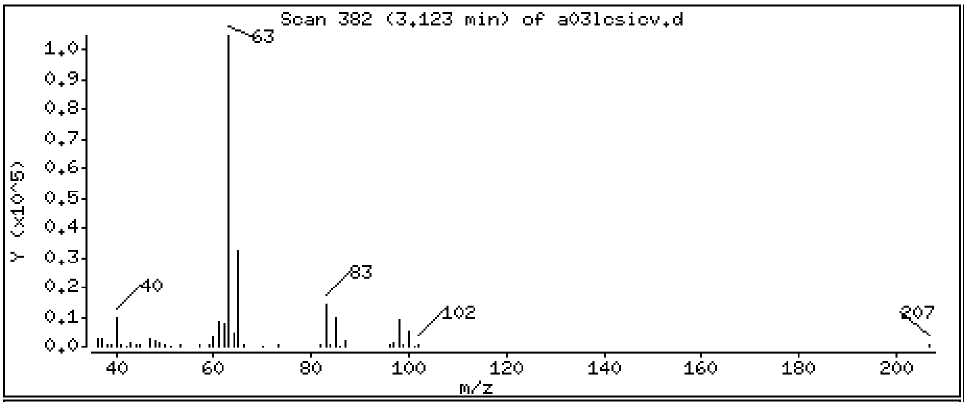
Client ID: Instrument: 50mvda.i

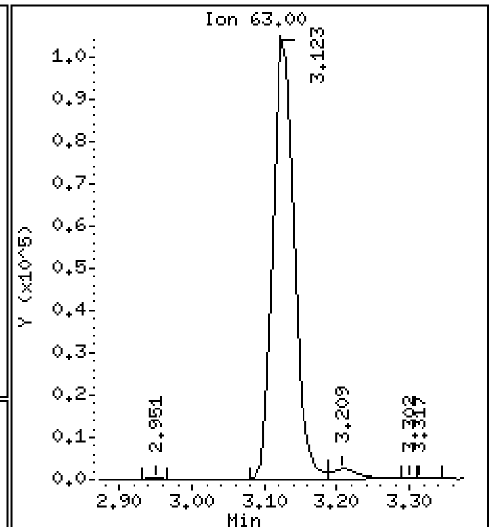
Sample Info: 8260-ICV

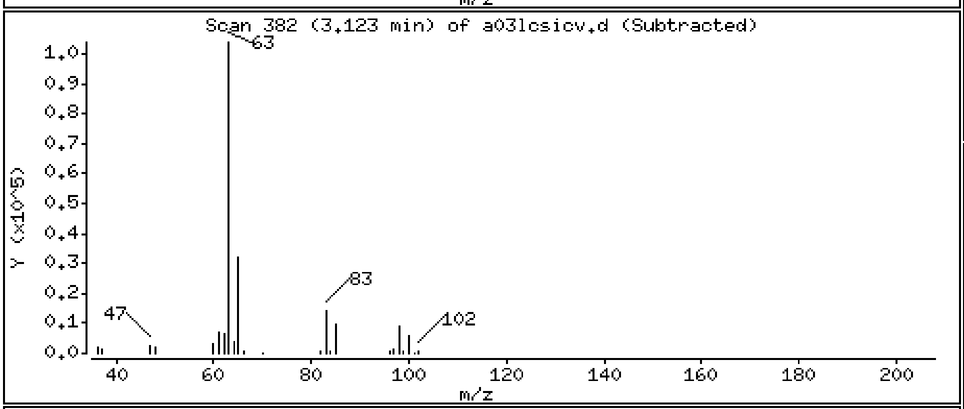
Purge Volume: 5.0 Operator: tkg

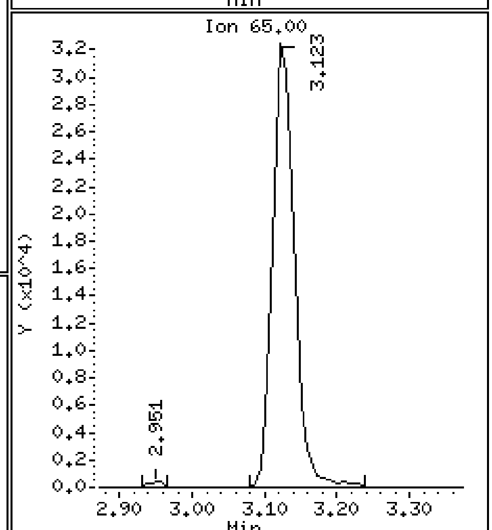
Column phase: DB-624 Column diameter: 0.18

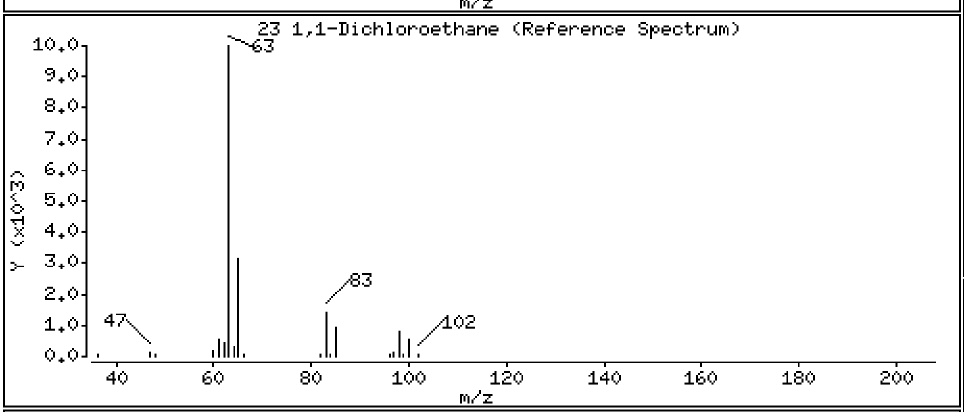
23 1,1-Dichloroethane Concentration: 42.0 ppb Review Code:

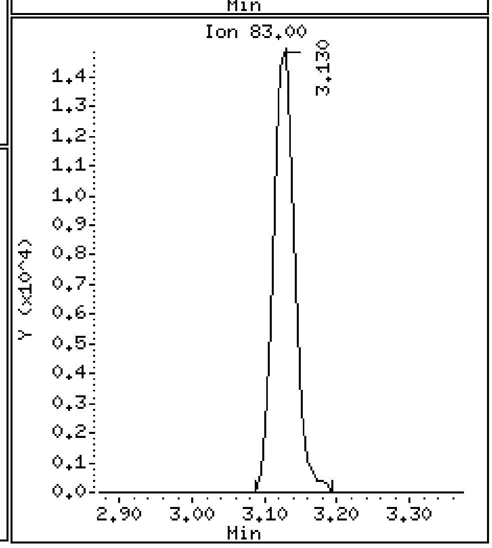


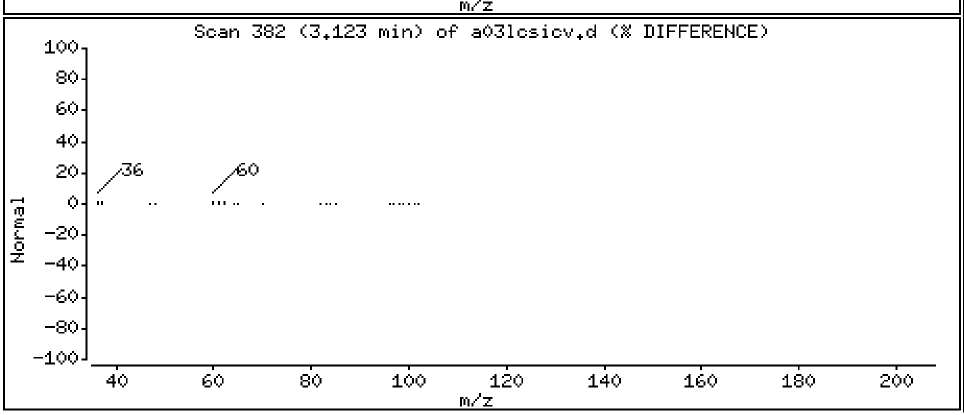












Date : 23-JAN-2023 11:36

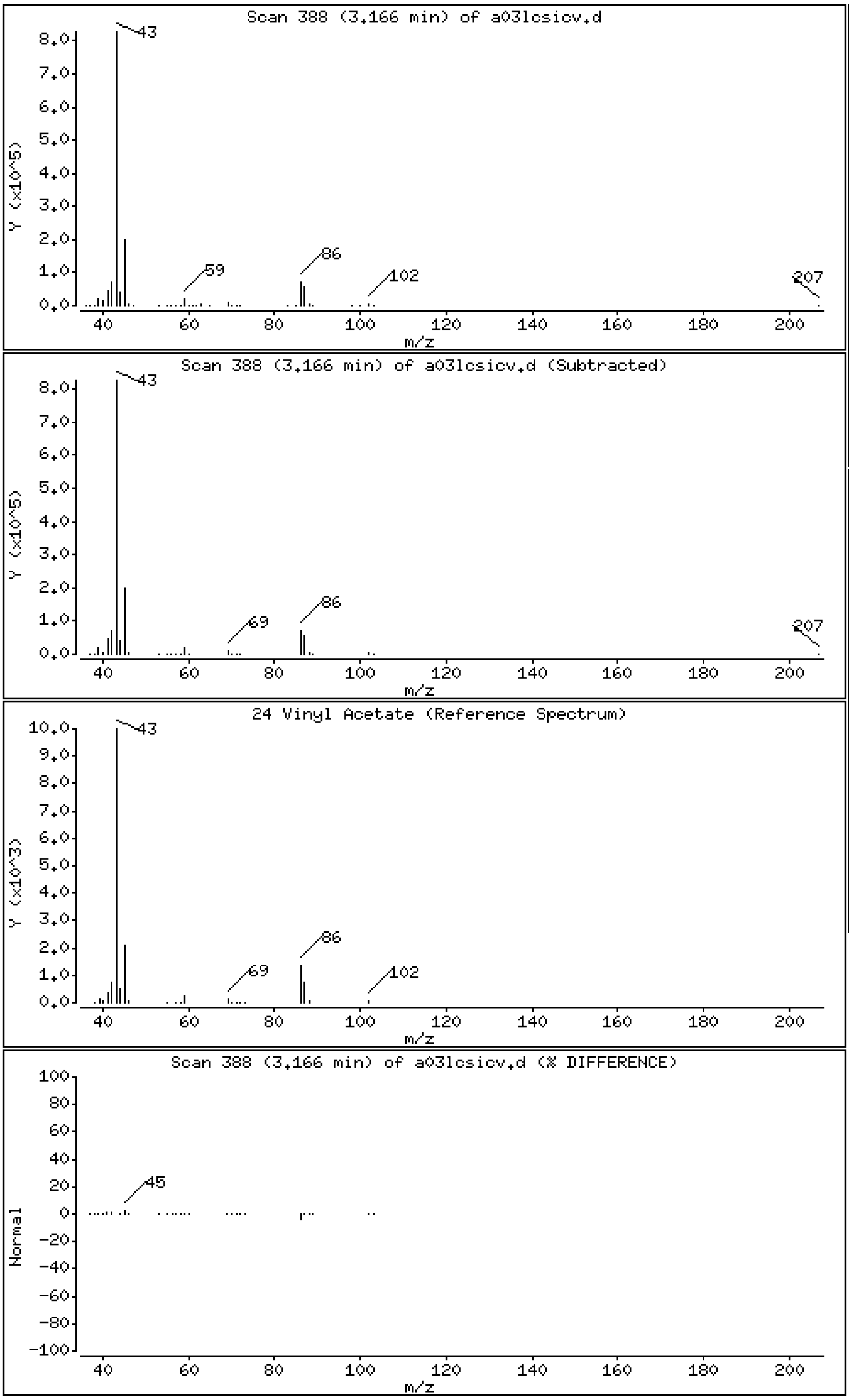
Client ID: Instrument: 50mvda.i

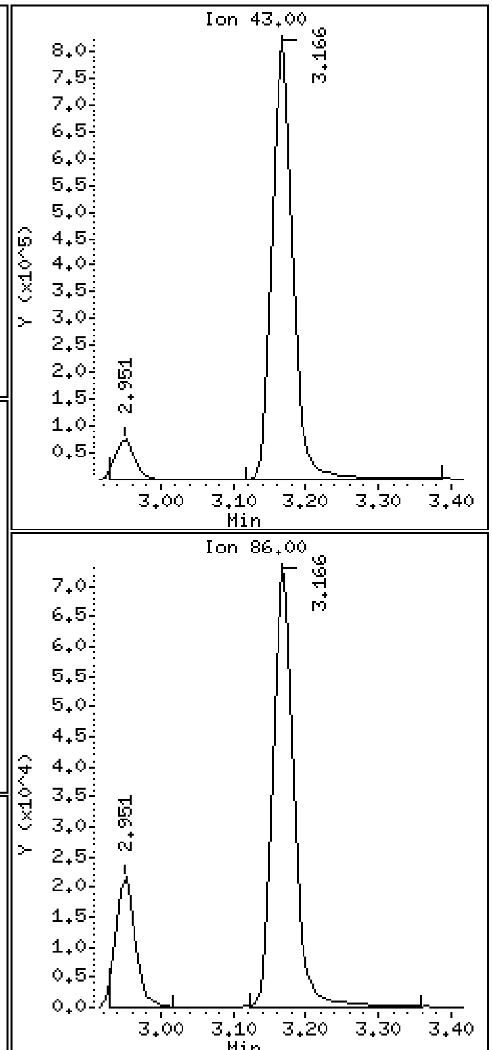
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

24 Vinyl Acetate Concentration: 182 ppb Review Code:





Date : 23-JAN-2023 11:36

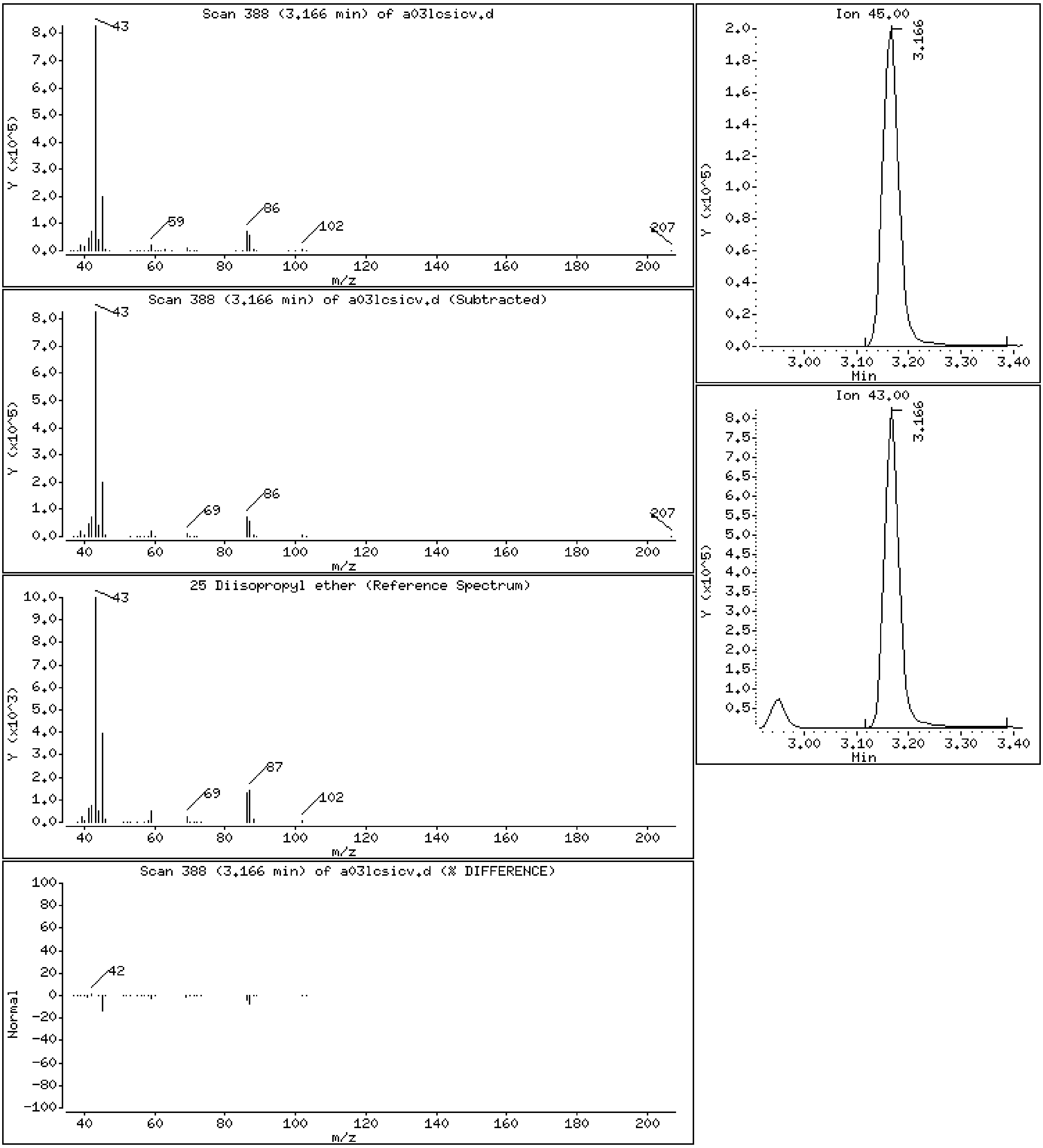
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

25 Diisopropyl ether Concentration: 41.1 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

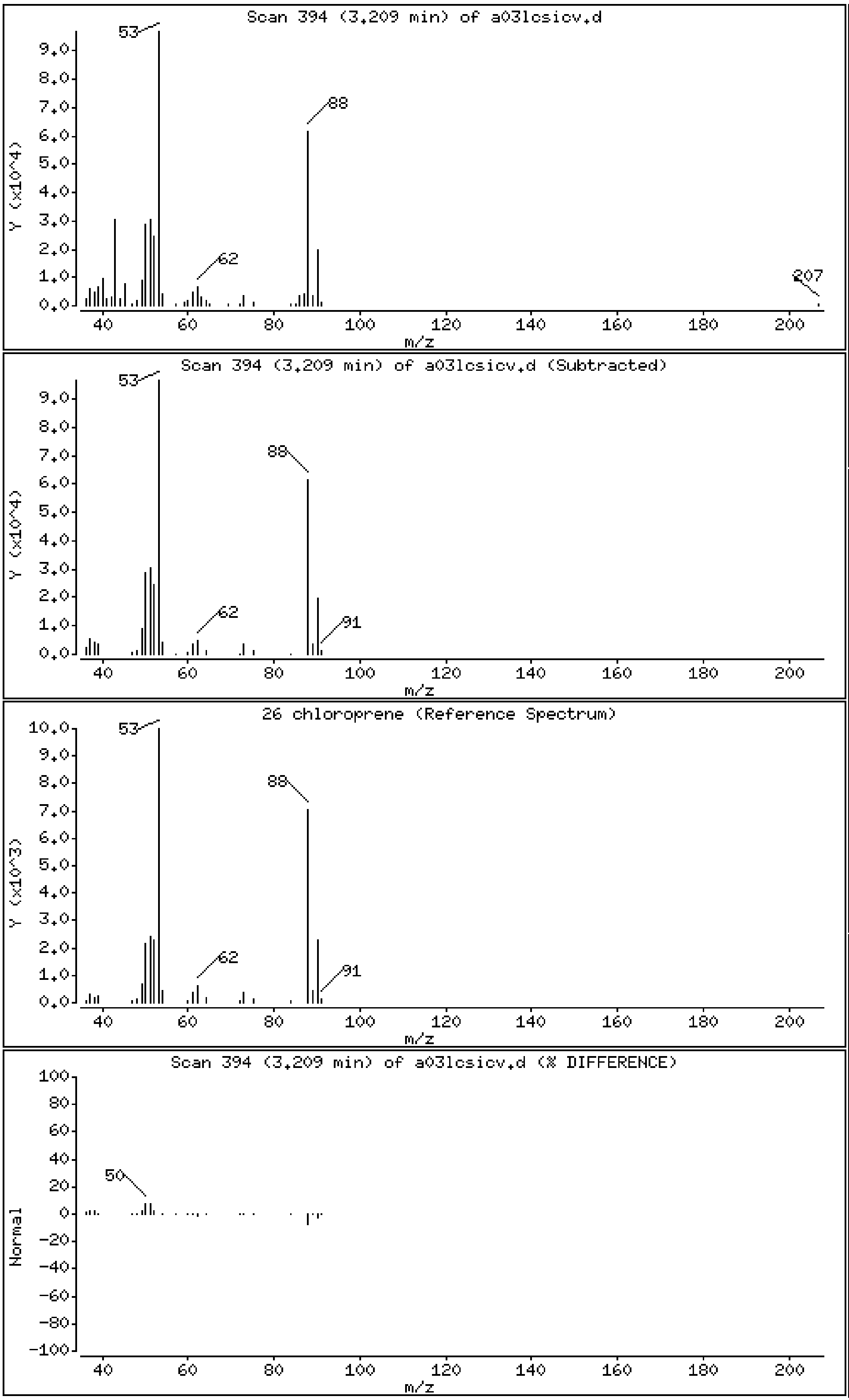
Column phase: DB-624

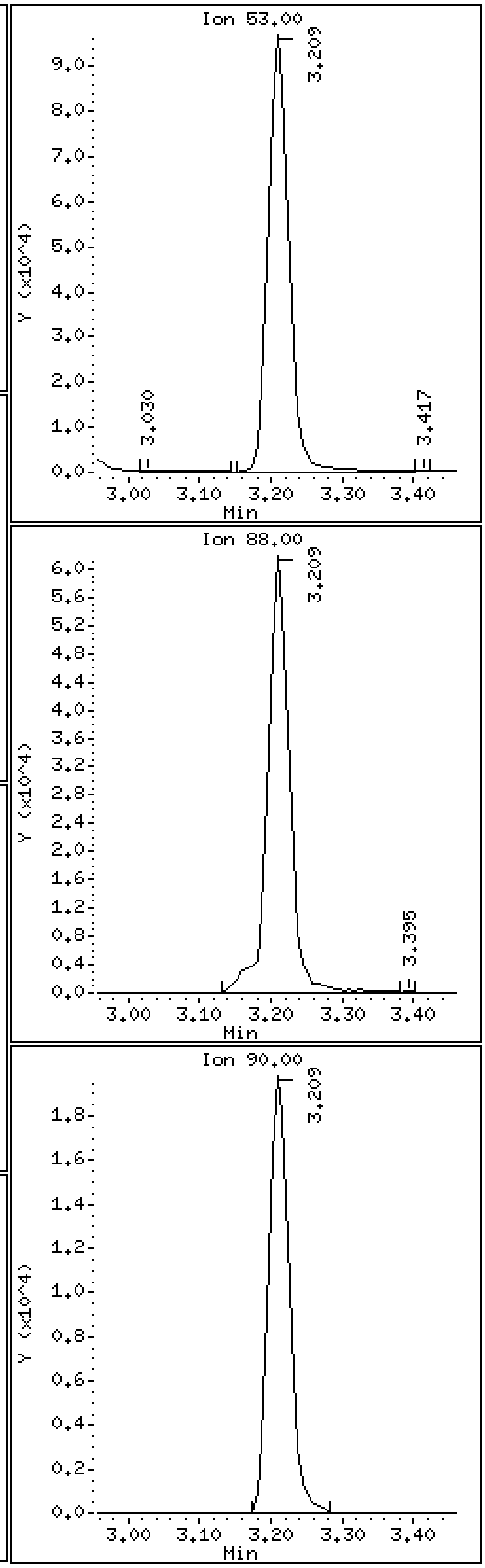
Column diameter: 0.18

26 chloroprene

Concentration: 44.2 ppb

Review Code:





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Date : 23-JAN-2023 11:36

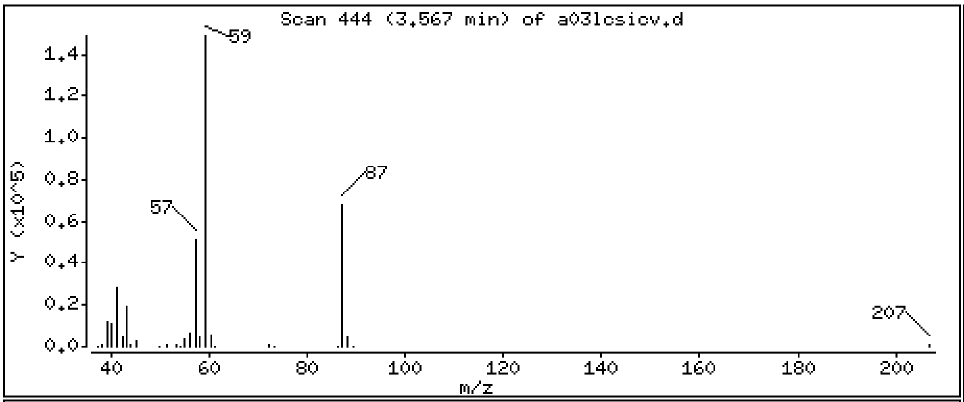
Client ID: Instrument: 50mvda.i

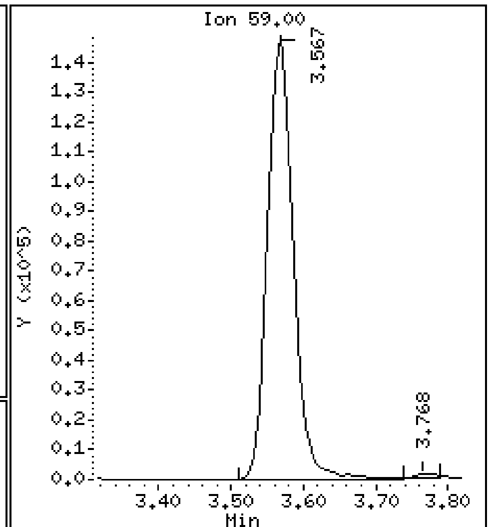
Sample Info: 8260-ICV

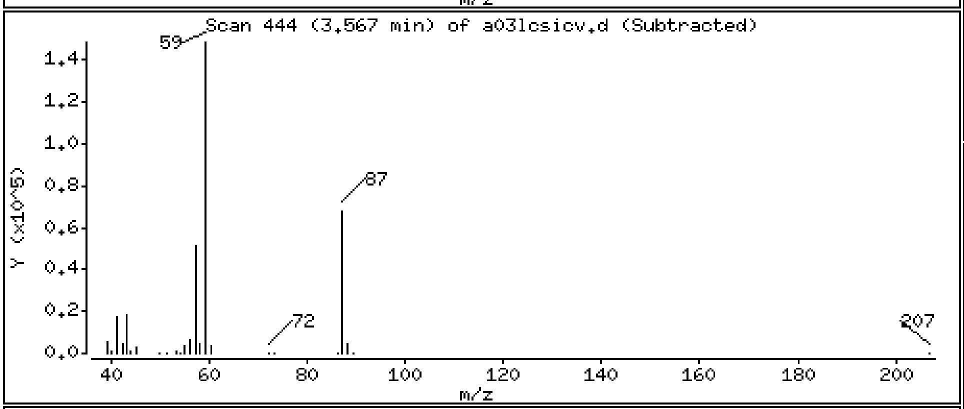
Purge Volume: 5.0 Operator: tkg

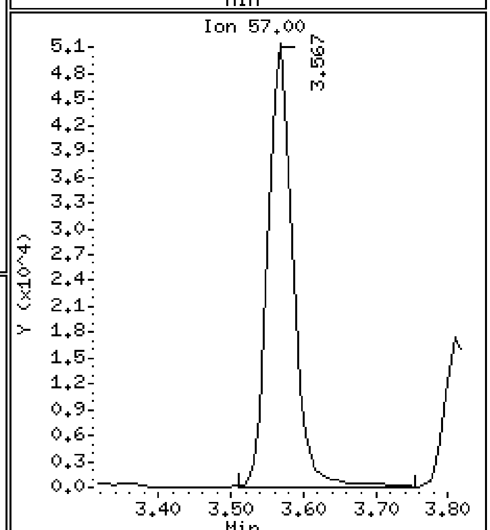
Column phase: DB-624 Column diameter: 0.18

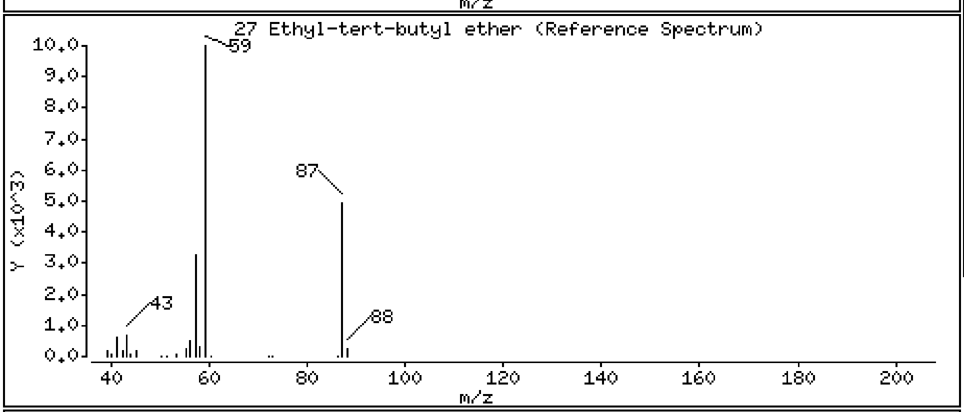
27 Ethyl-tert-butyl ether Concentration: 41.8 ppb Review Code:

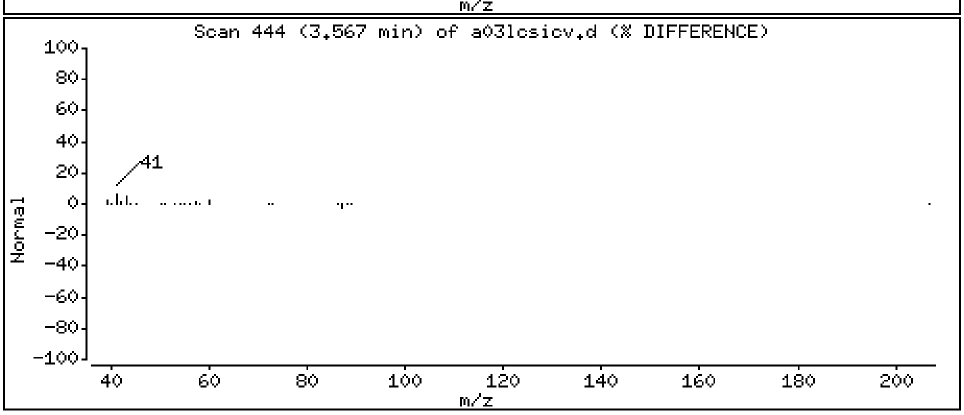












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

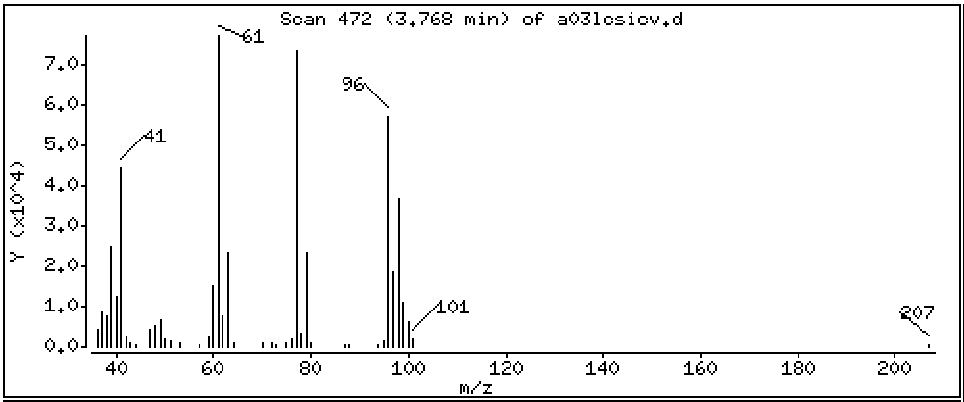
Column phase: DB-624

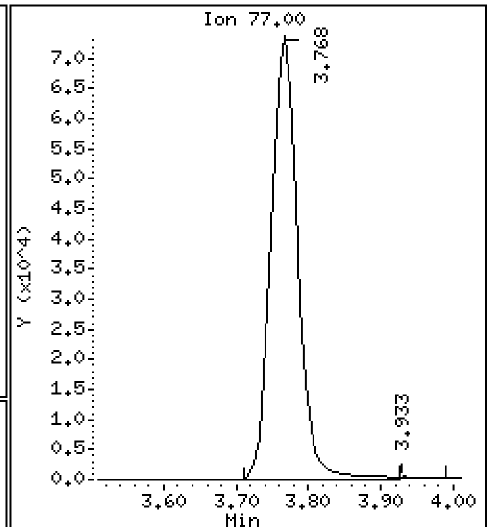
Column diameter: 0.18

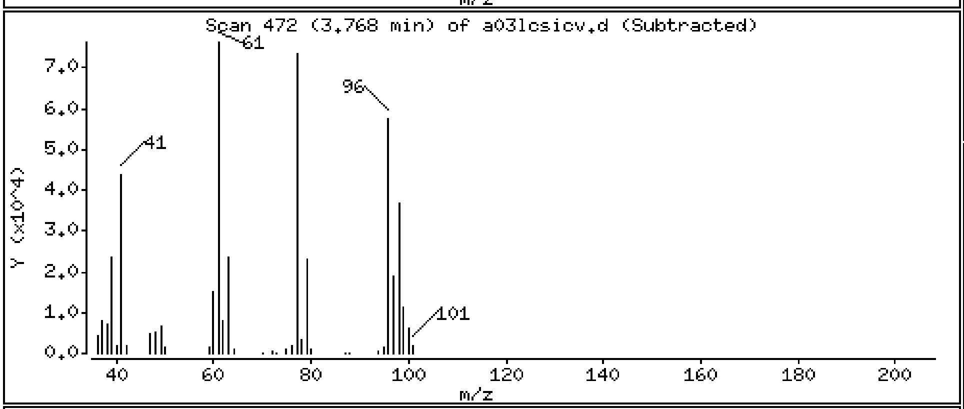
28 2,2-Dichloropropane

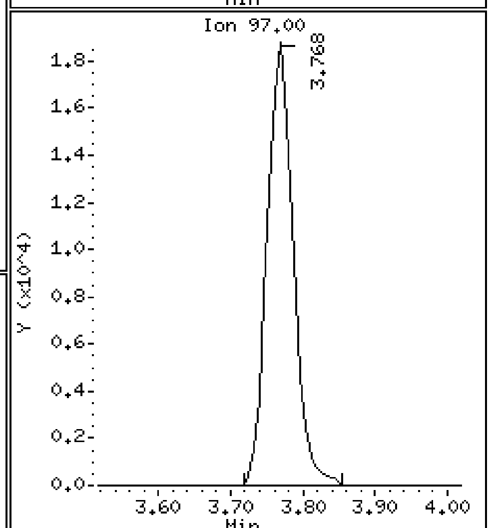
Concentration: 46.6 ppb

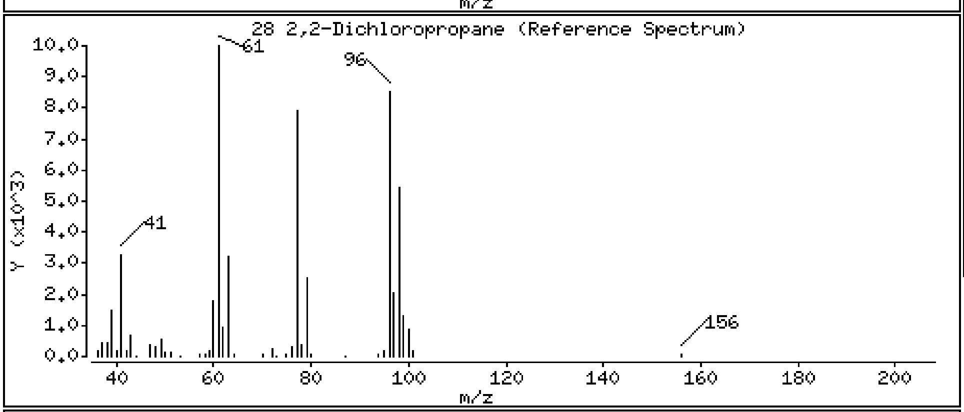
Review Code:

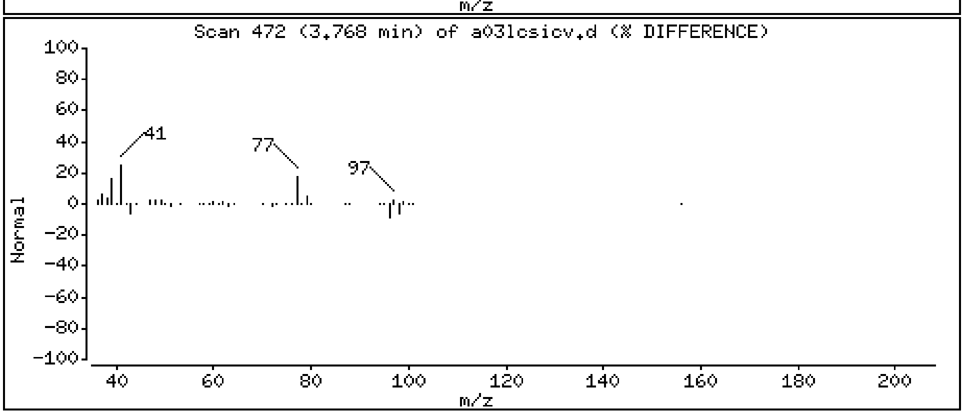












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

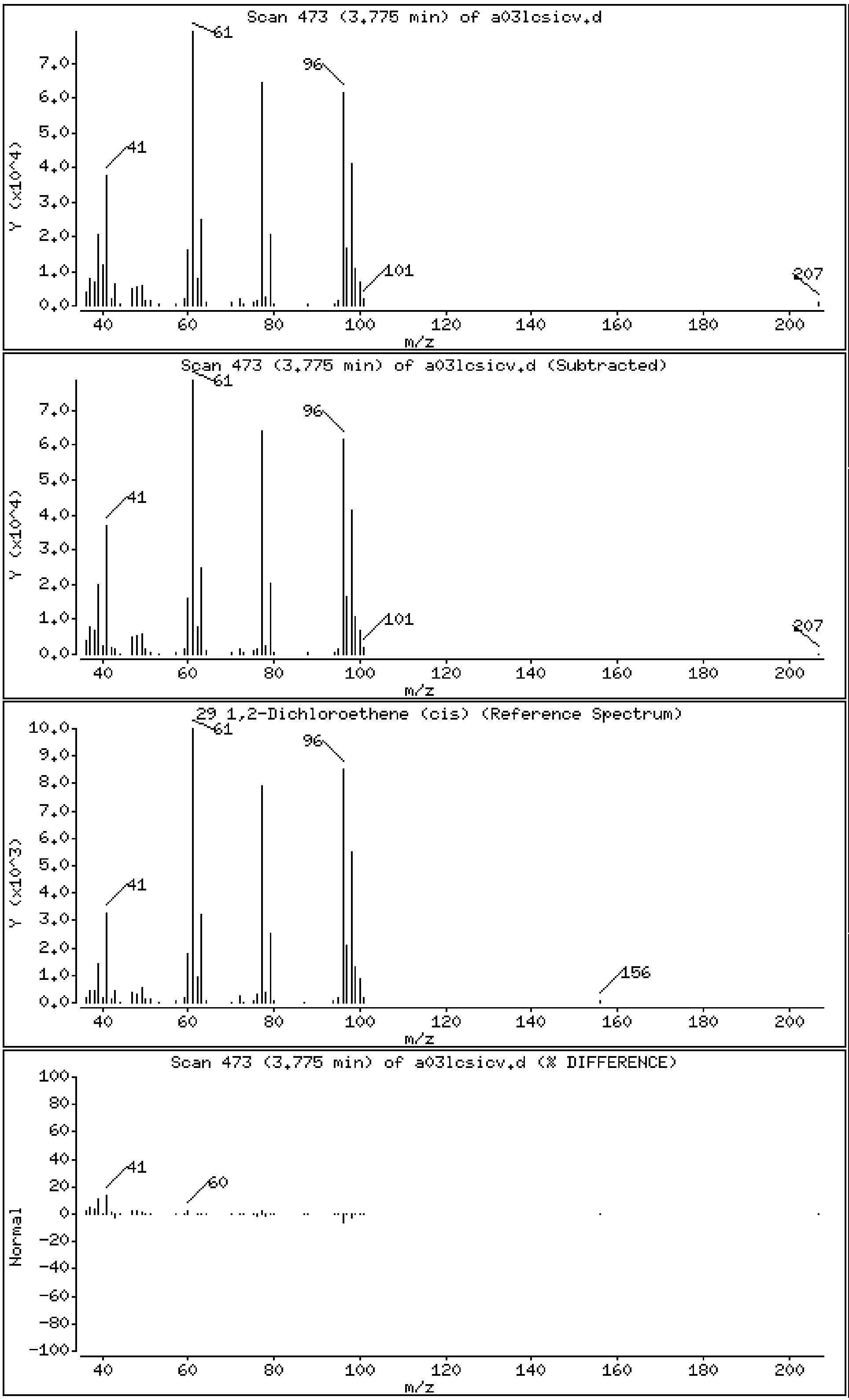
Column phase: DB-624

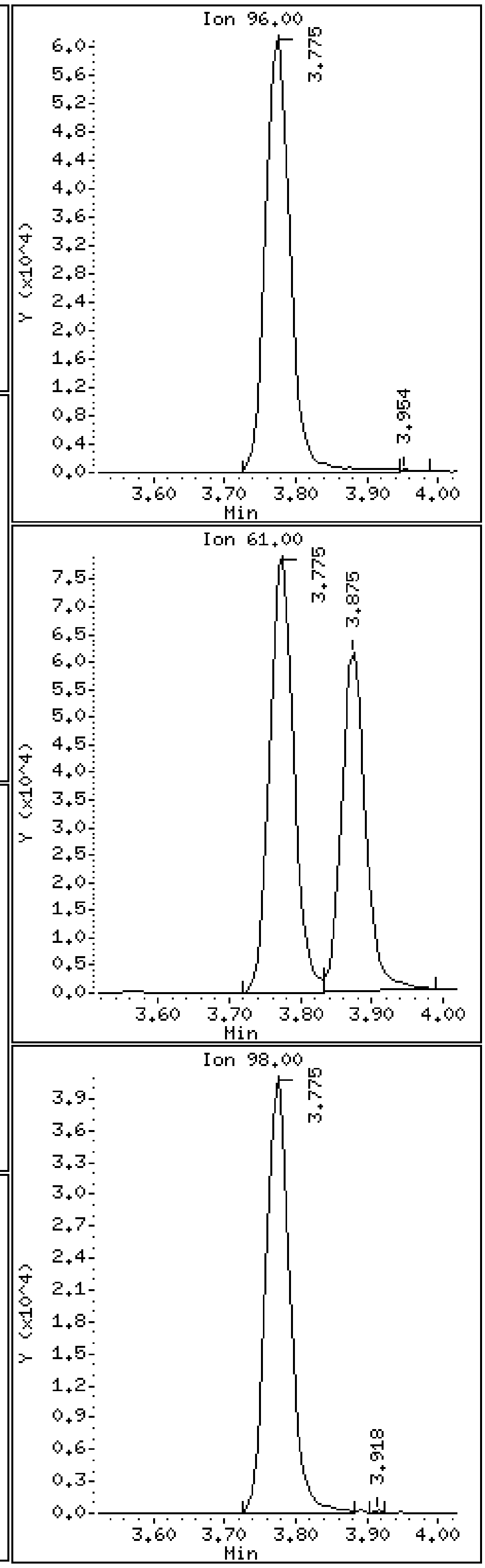
Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 40.7 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

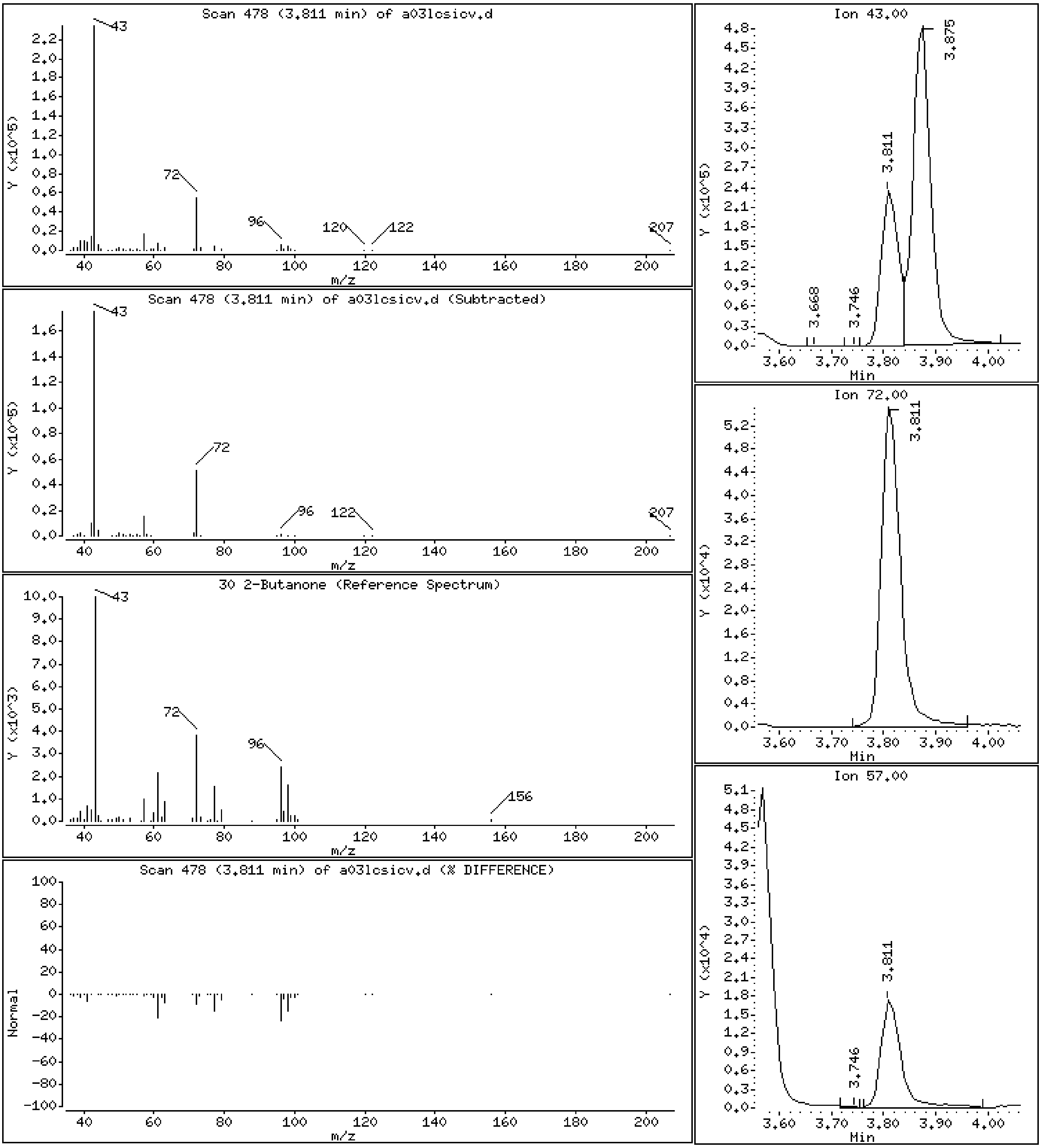
Column phase: DB-624

Column diameter: 0.18

30 2-Butanone

Concentration: 210 ppb

Review Code:



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Date : 23-JAN-2023 11:36

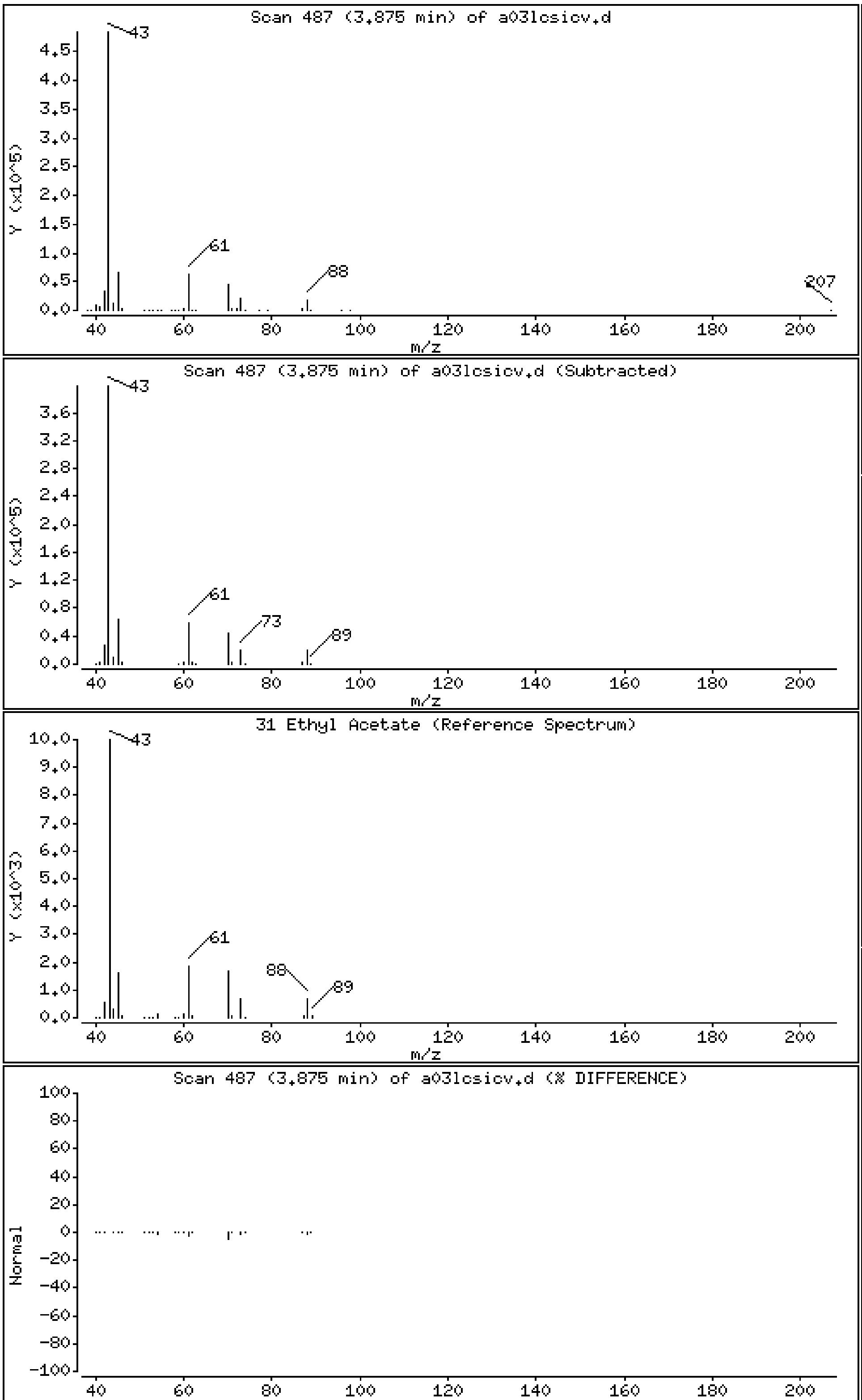
Client ID: Instrument: 50mvda.i

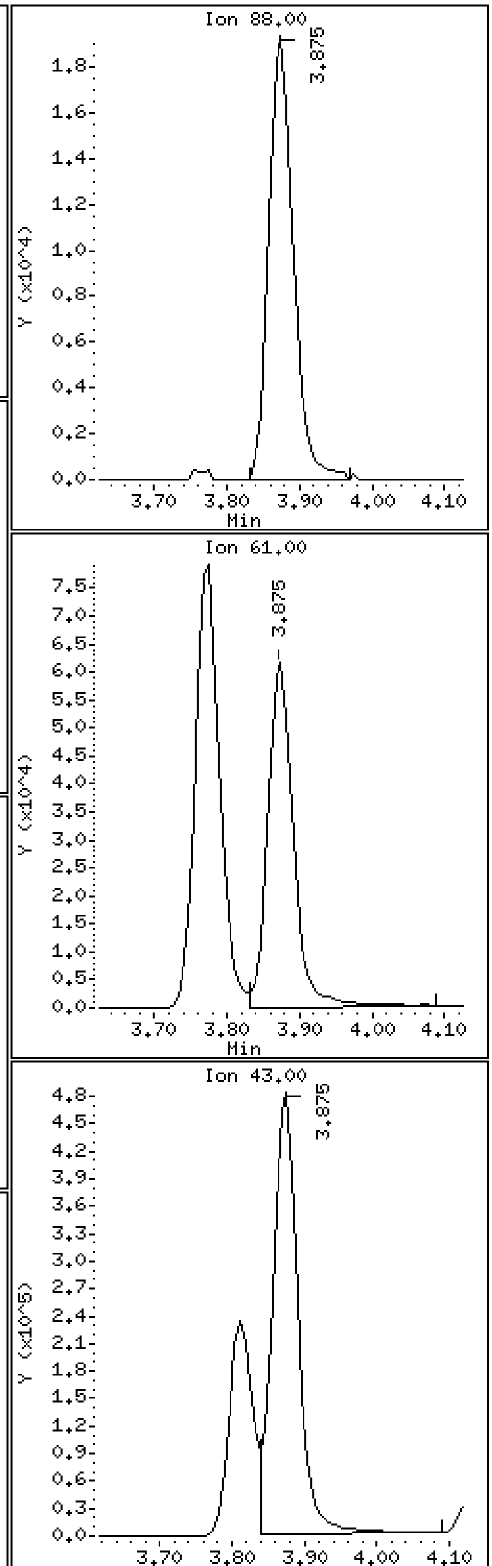
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

31 Ethyl Acetate Concentration: 247 ppb Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

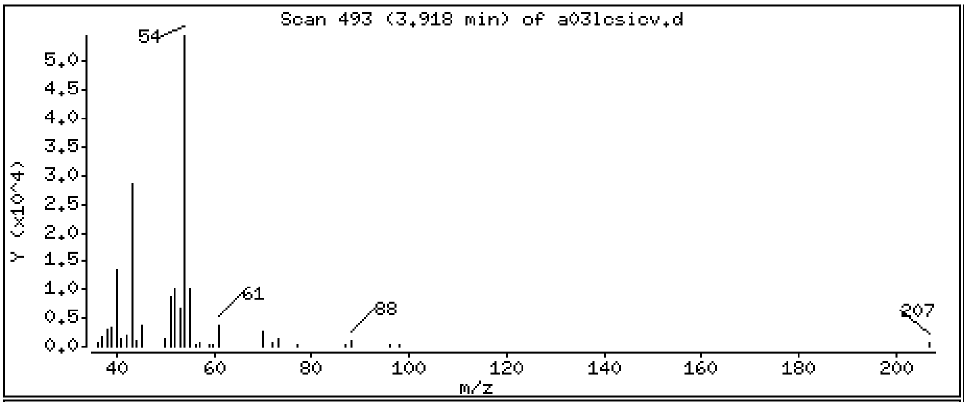
Column phase: DB-624

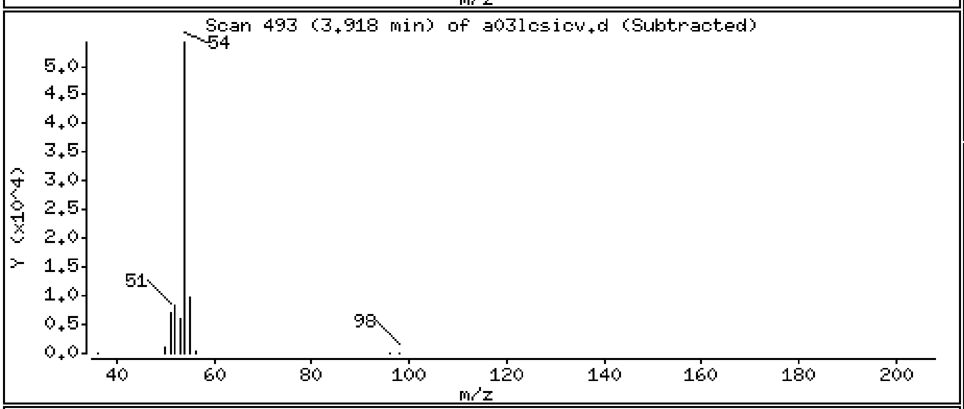
Column diameter: 0.18

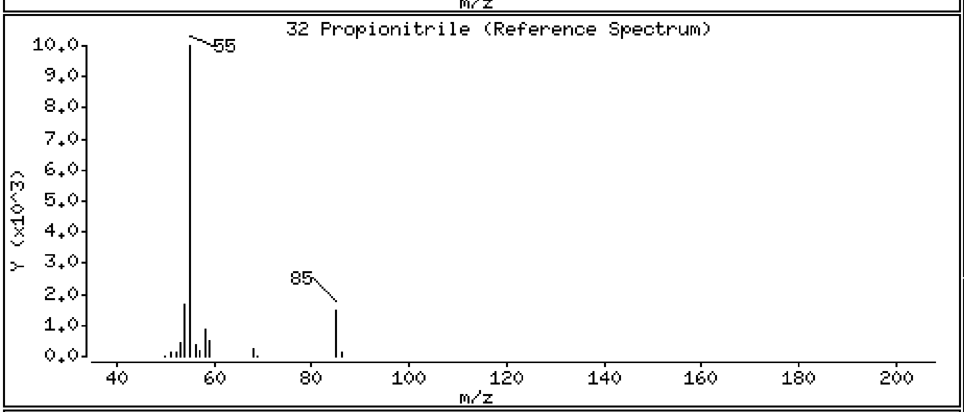
32 Propionitrile

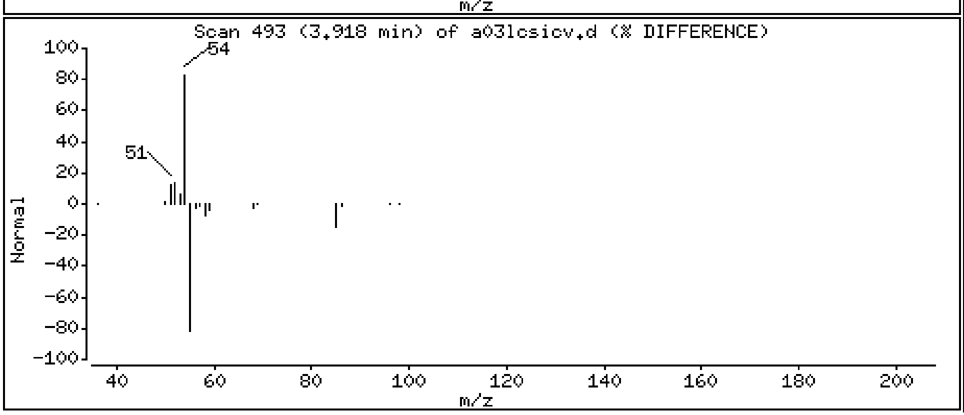
Concentration: 220 ppb

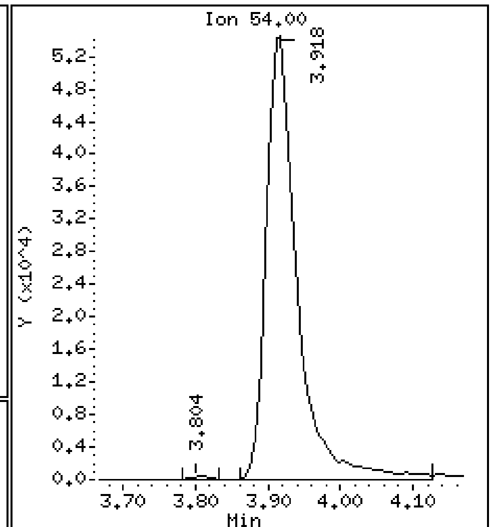
Review Code:

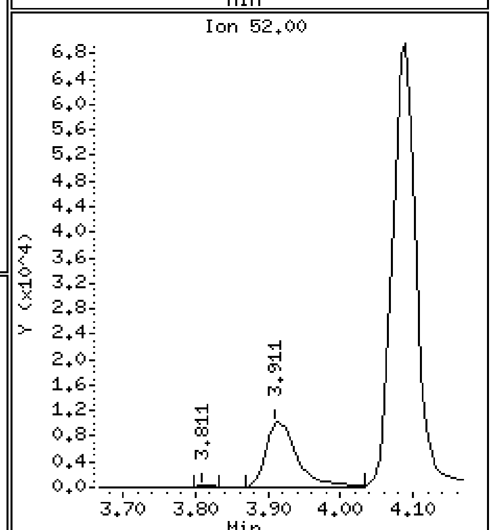


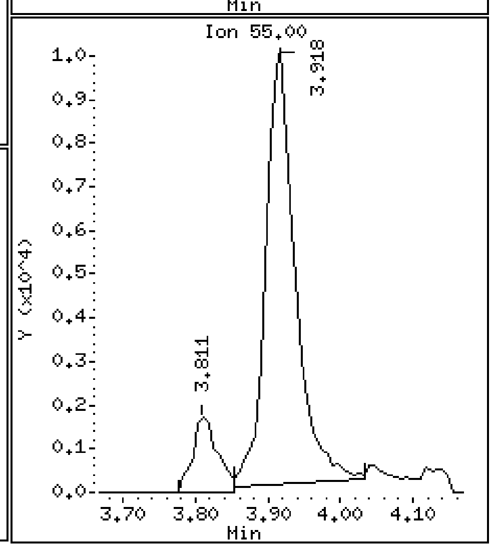












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

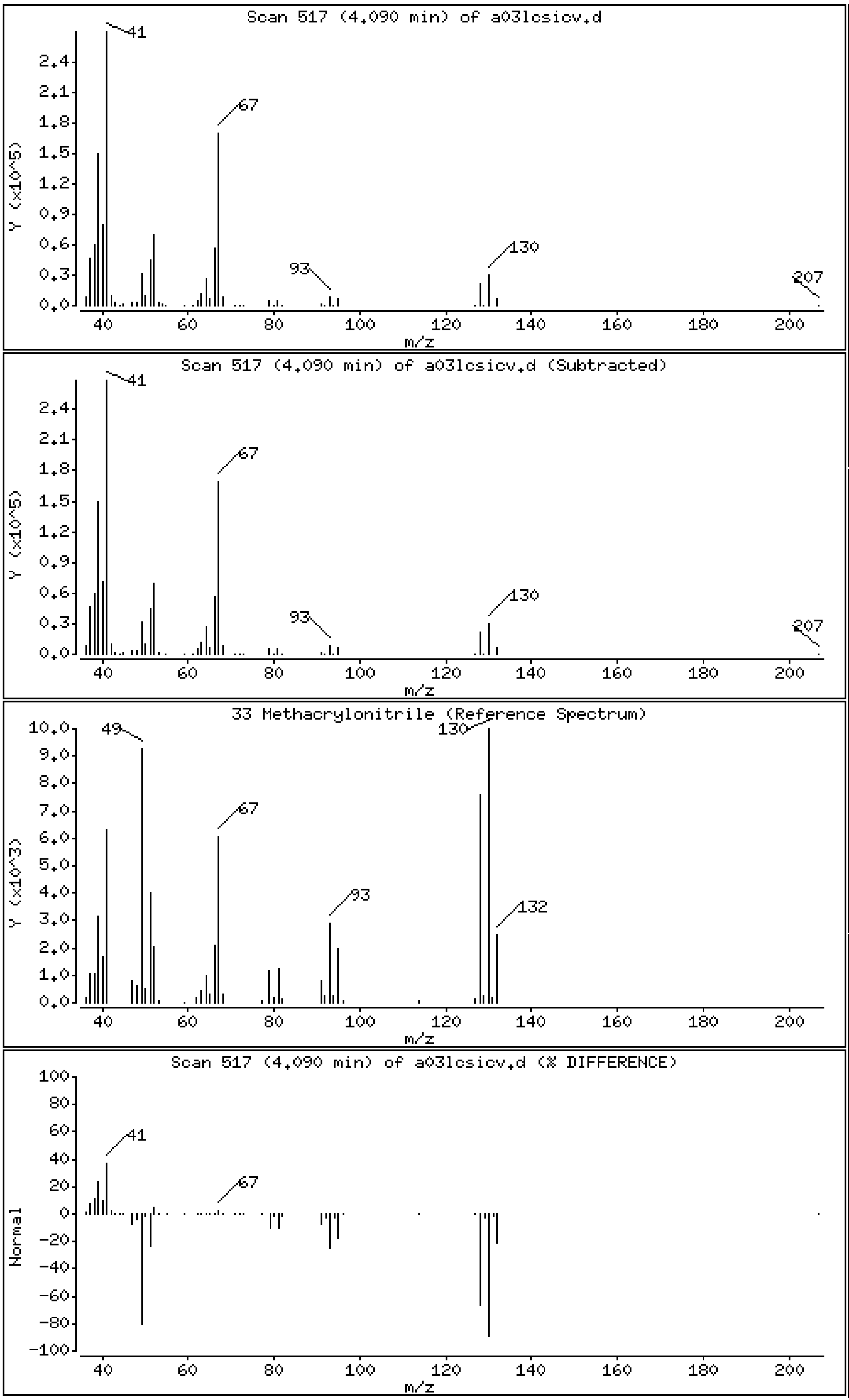
Column phase: DB-624

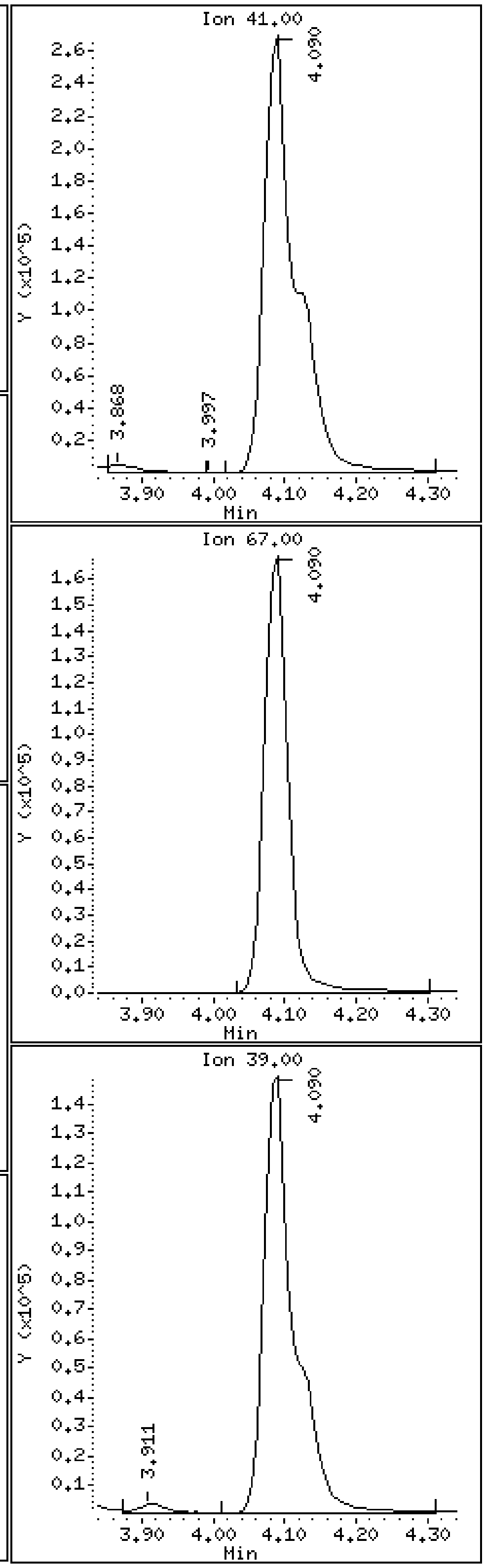
Column diameter: 0.18

33 Methacrylonitrile

Concentration: 201 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

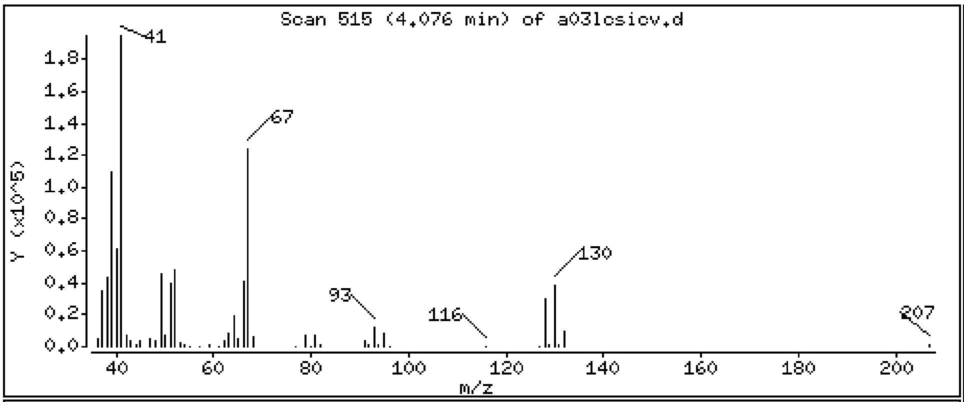
Column phase: DB-624

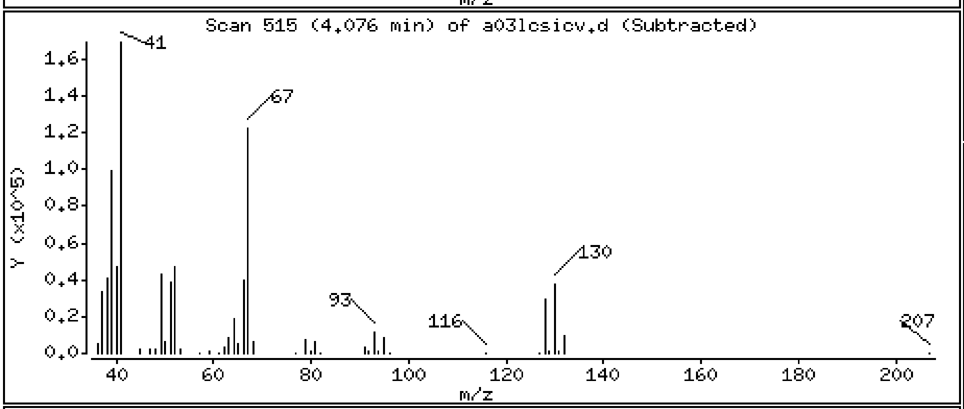
Column diameter: 0.18

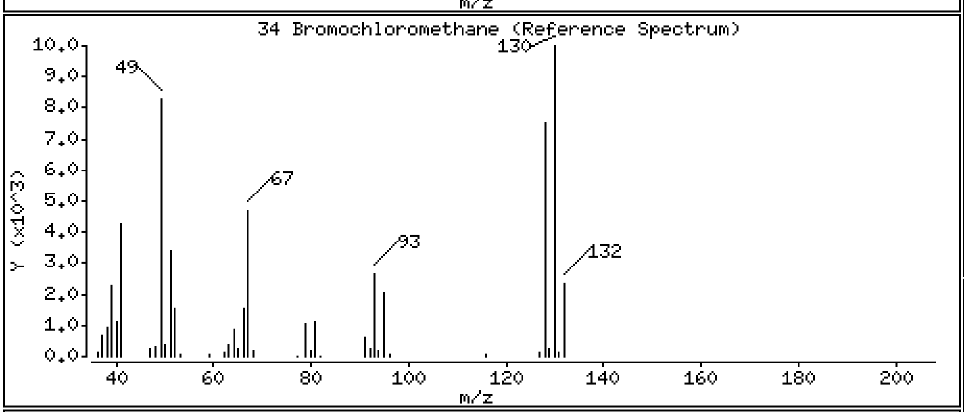
34 Bromochloromethane

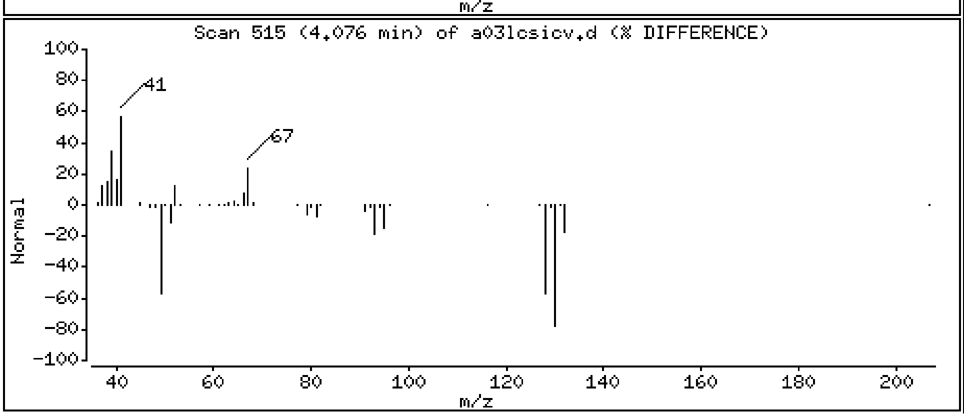
Concentration: 42.2 ppb

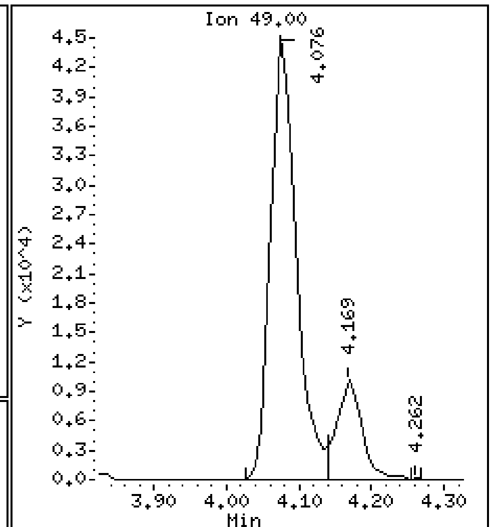
Review Code:

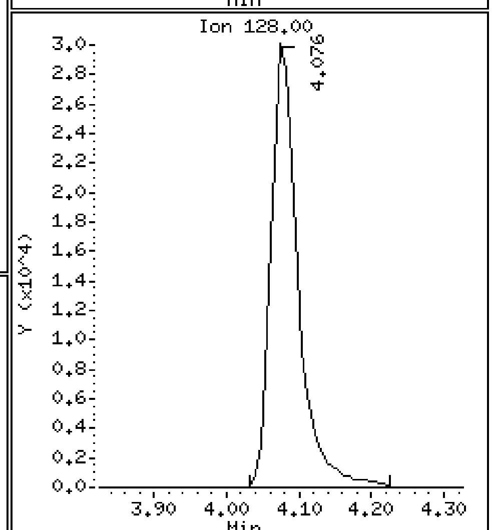


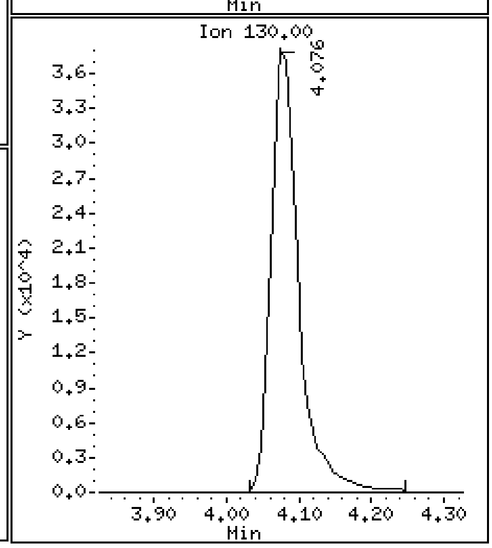












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

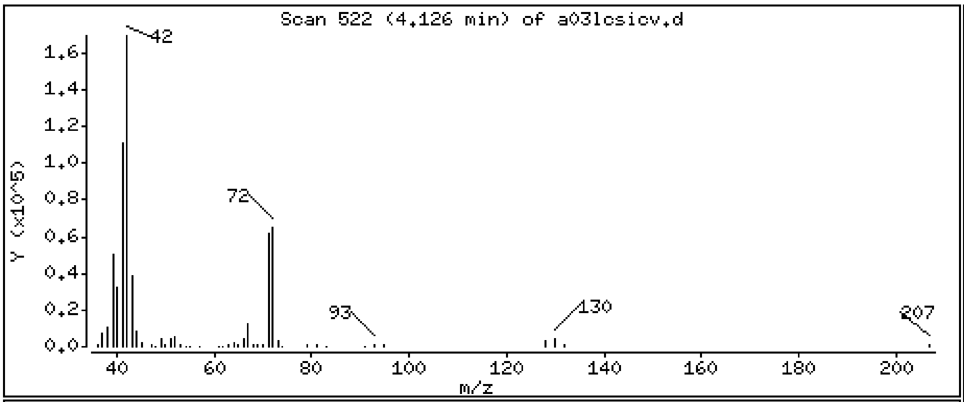
Column phase: DB-624

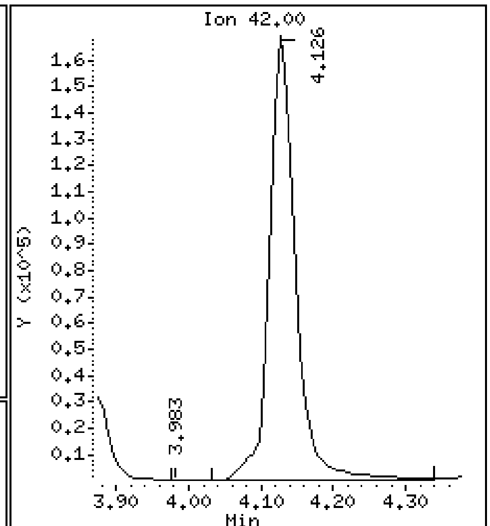
Column diameter: 0.18

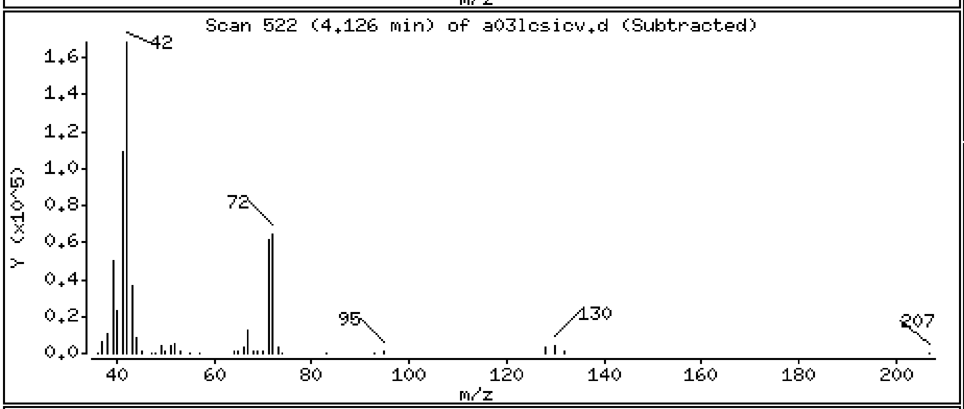
35 Tetrahydrofuran

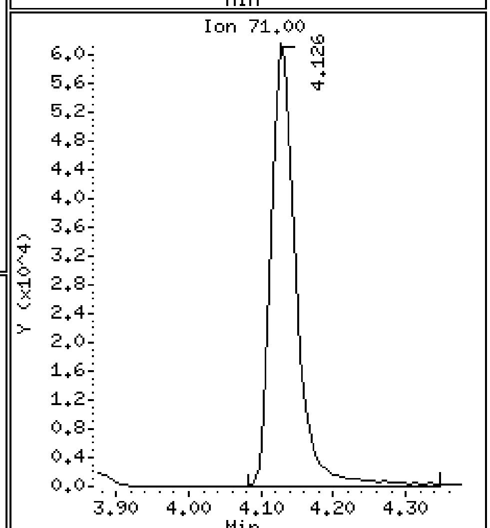
Concentration: 202 ppb

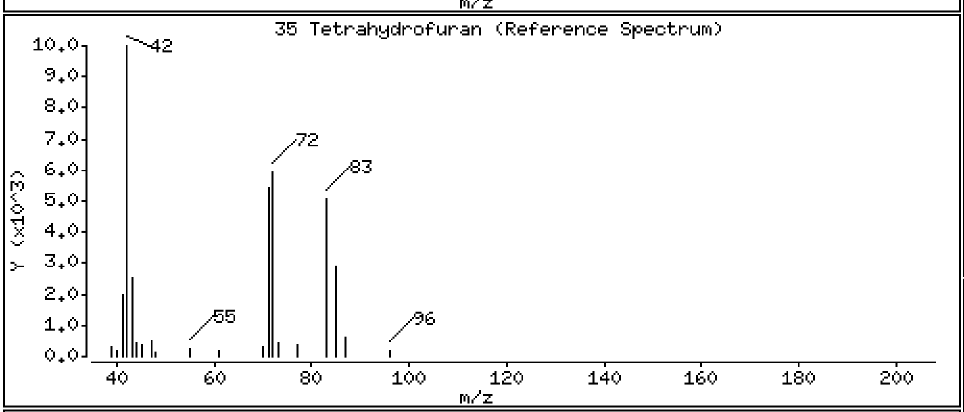
Review Code:

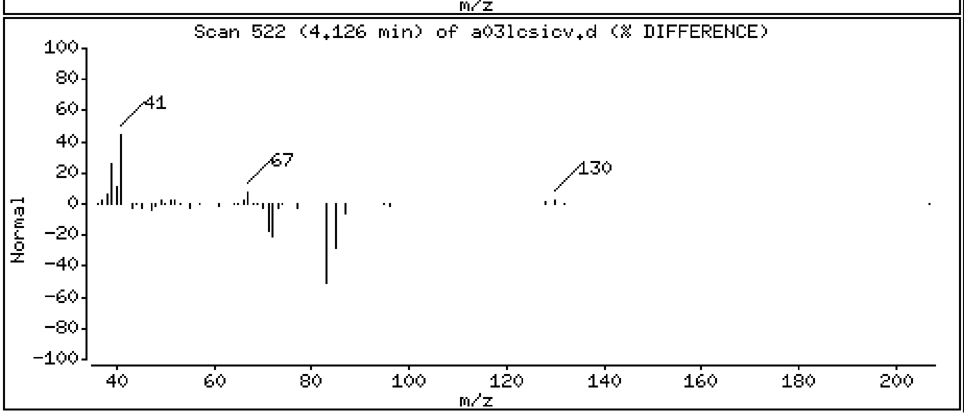


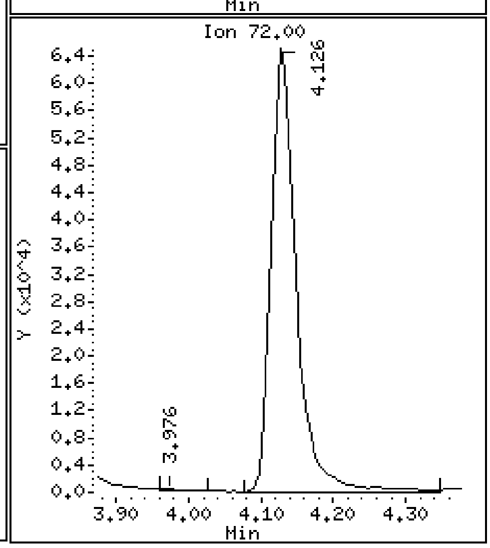












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

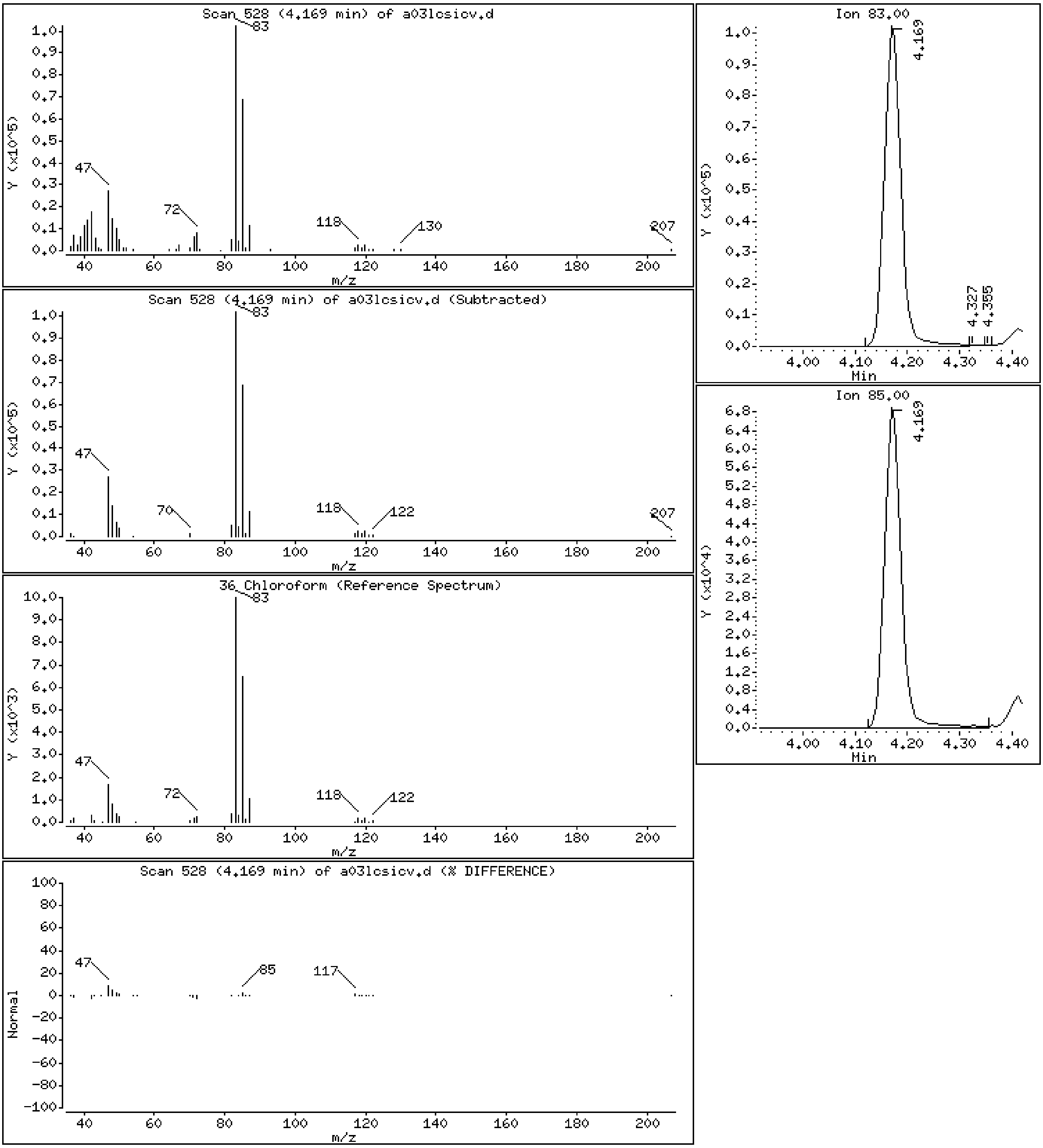
Column phase: DB-624

Column diameter: 0.18

36 Chloroform

Concentration: 43.7 ppb

Review Code:



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Date : 23-JAN-2023 11:36

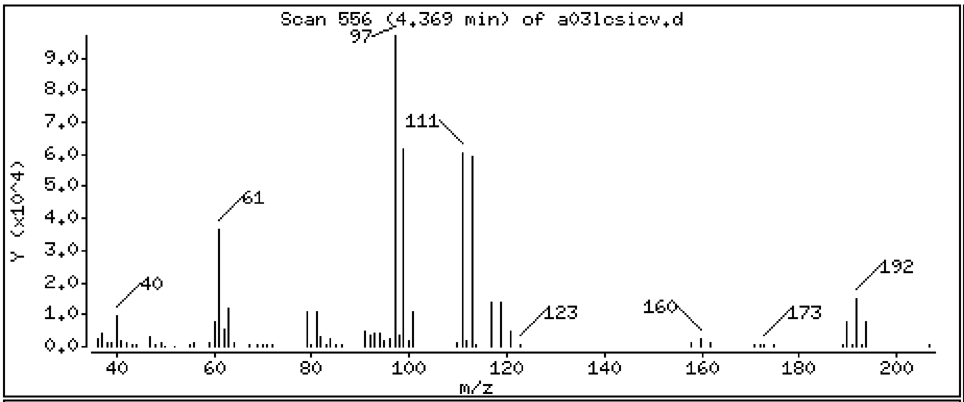
Client ID: Instrument: 50mvda.i

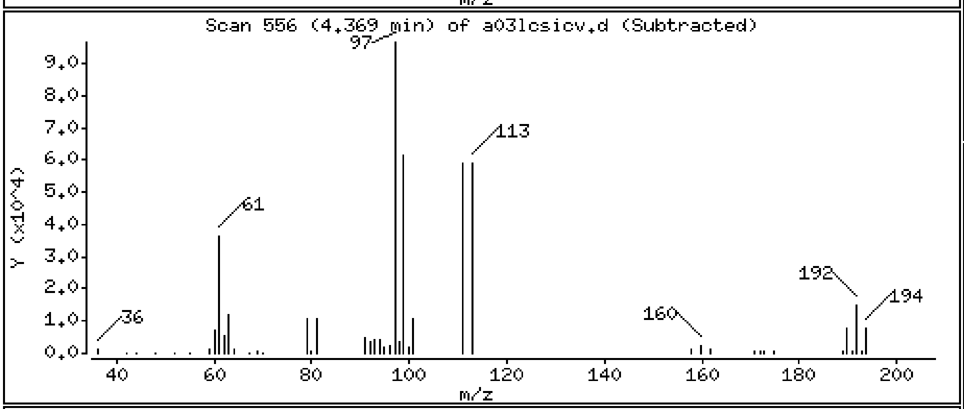
Sample Info: 8260-ICV

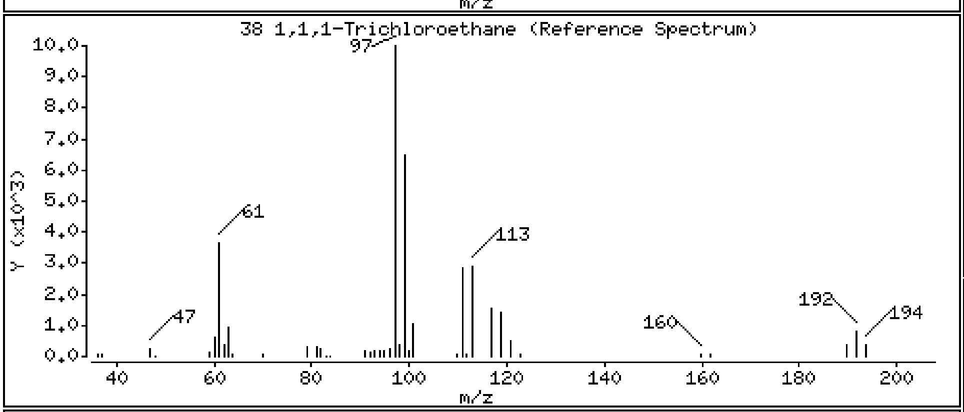
Purge Volume: 5.0 Operator: tkg

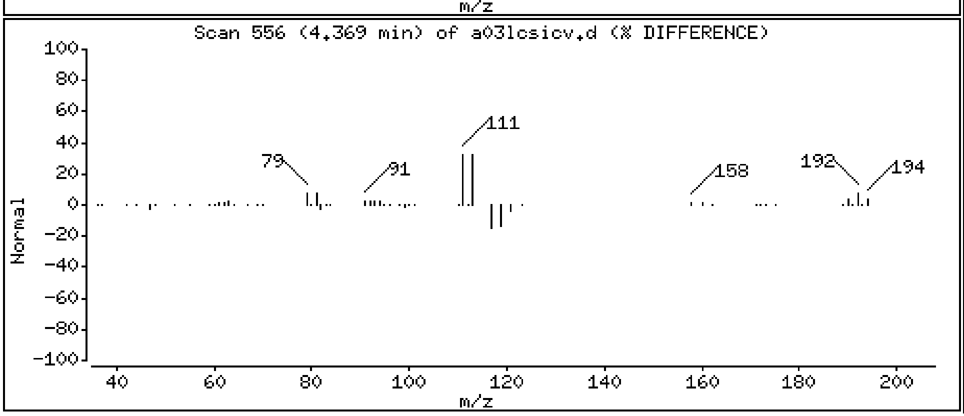
Column phase: DB-624 Column diameter: 0.18

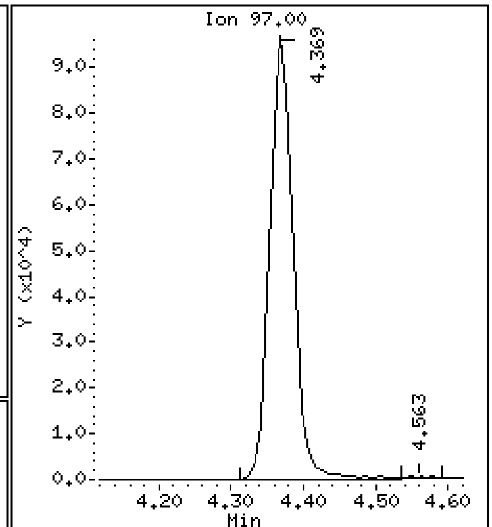
38 1,1,1-Trichloroethane Concentration: 47.6 ppb Review Code:

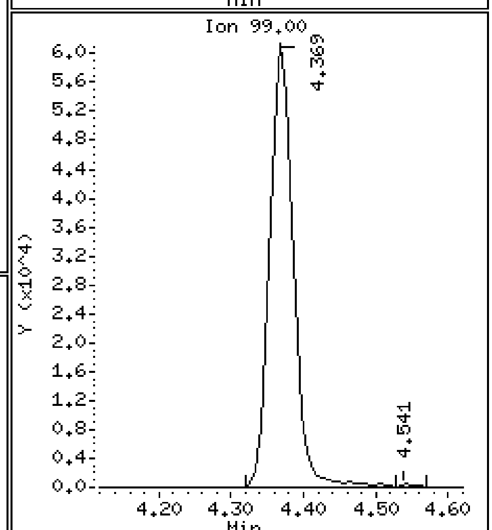


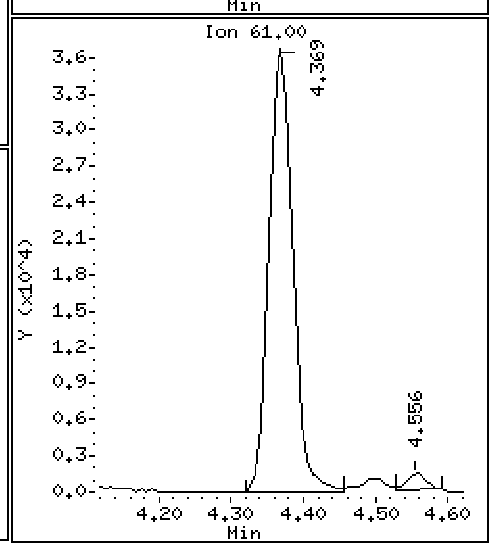












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Date : 23-JAN-2023 11:36

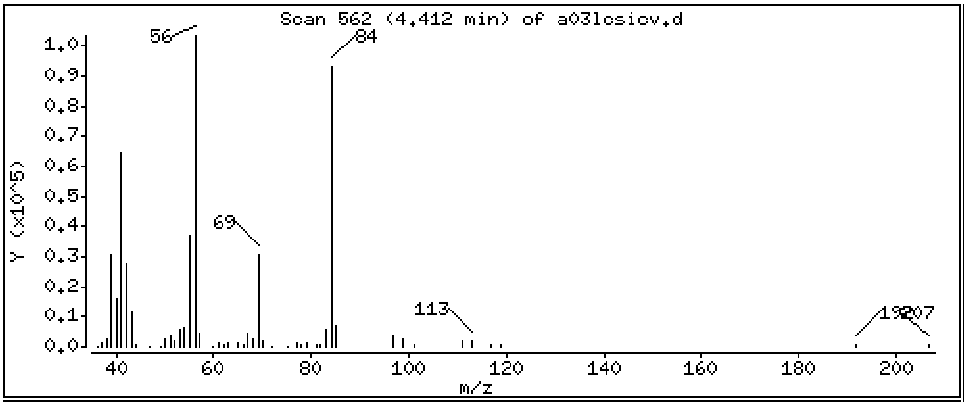
Client ID: Instrument: 50mvda.i

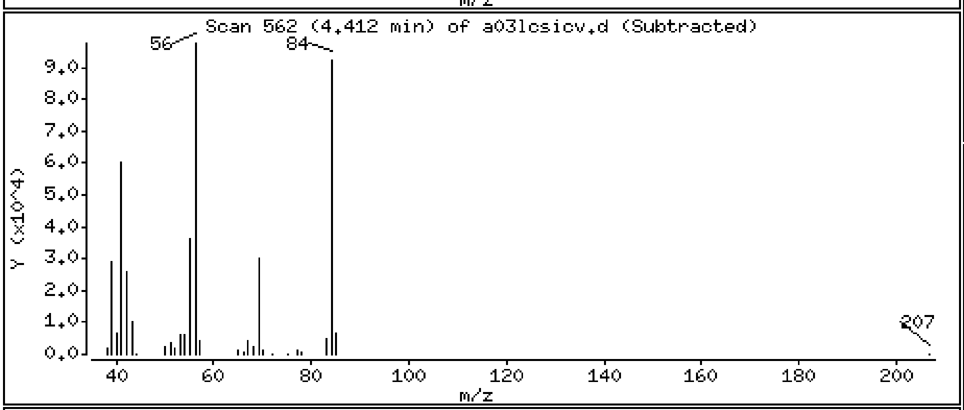
Sample Info: 8260-ICV

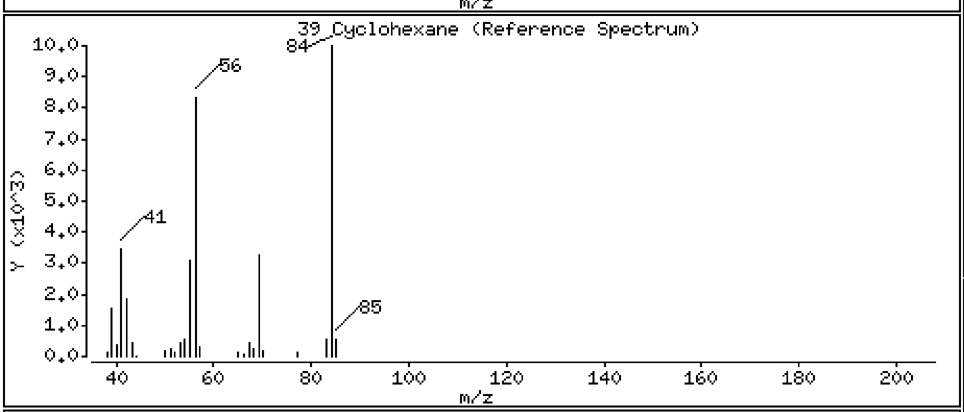
Purge Volume: 5.0 Operator: tkg

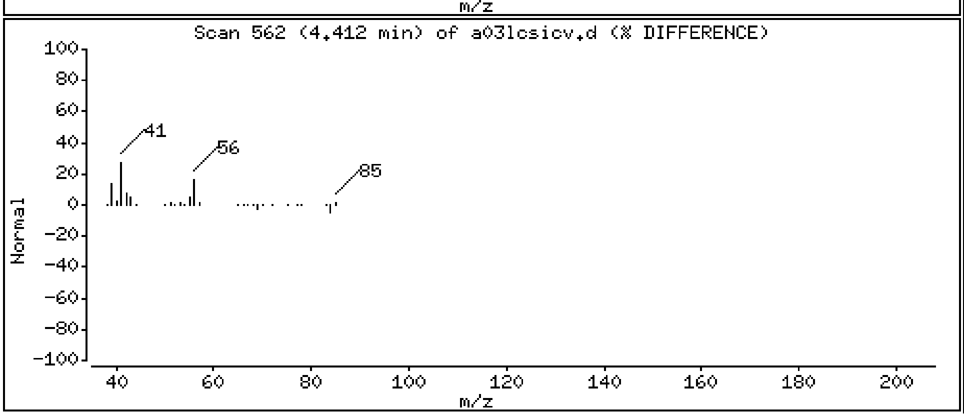
Column phase: DB-624 Column diameter: 0.18

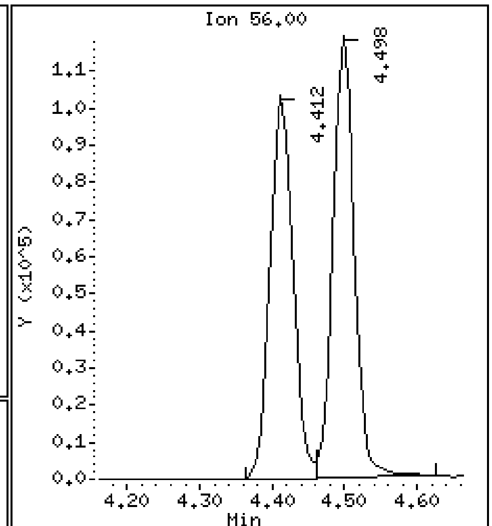
39 Cyclohexane Concentration: 40.9 ppb Review Code:

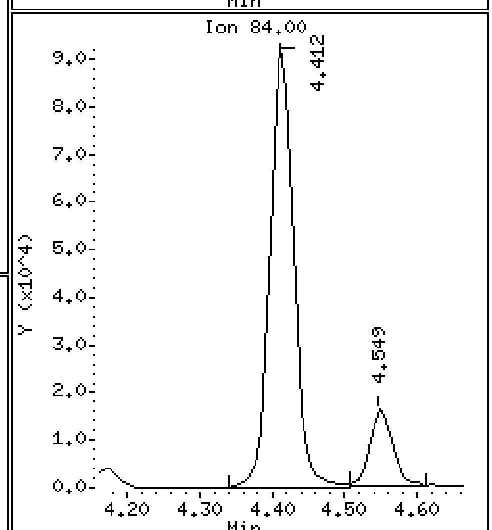


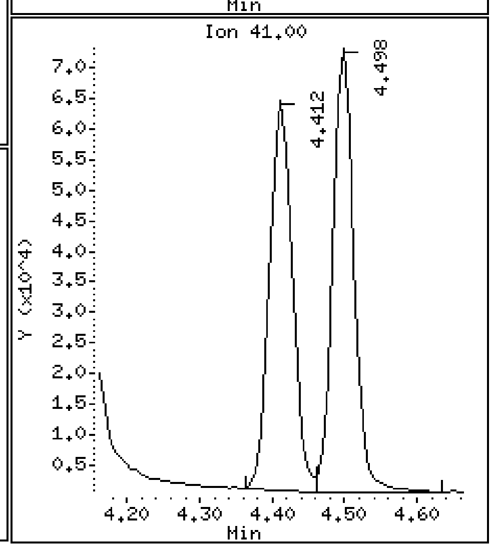












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Date : 23-JAN-2023 11:36

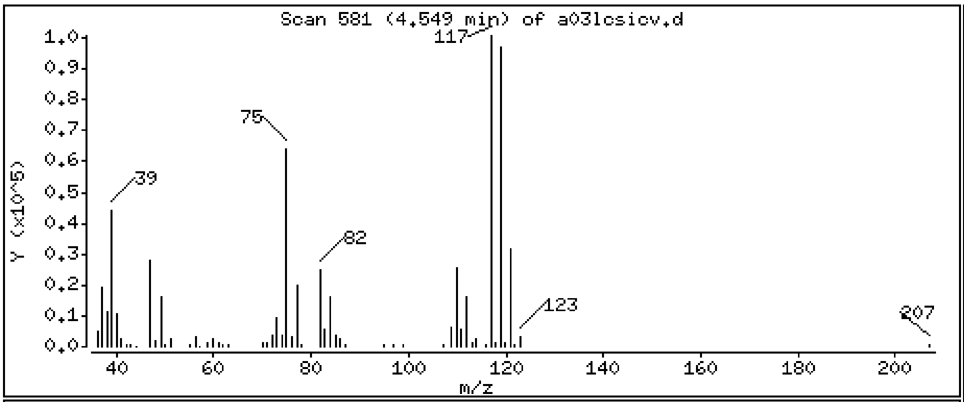
Client ID: Instrument: 50mvda.i

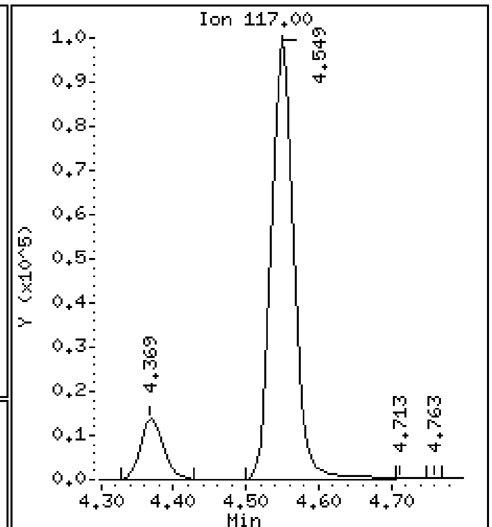
Sample Info: 8260-ICV

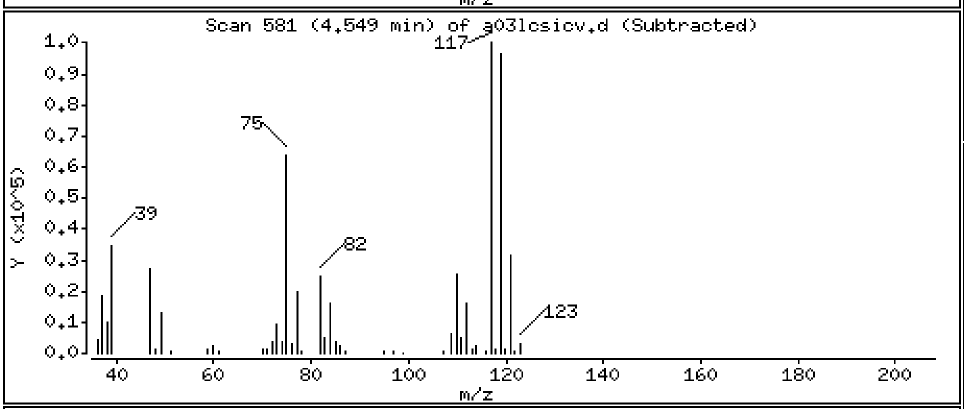
Purge Volume: 5.0 Operator: tkg

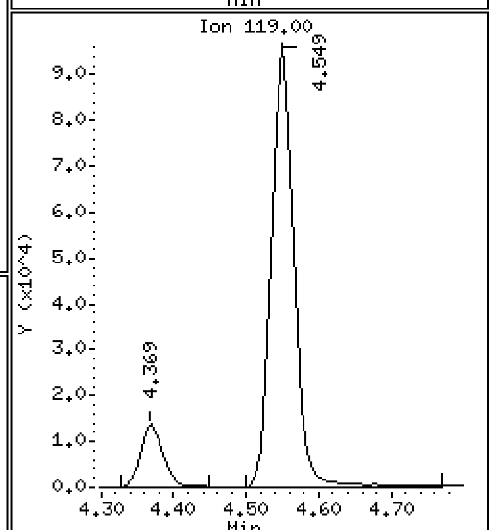
Column phase: DB-624 Column diameter: 0.18

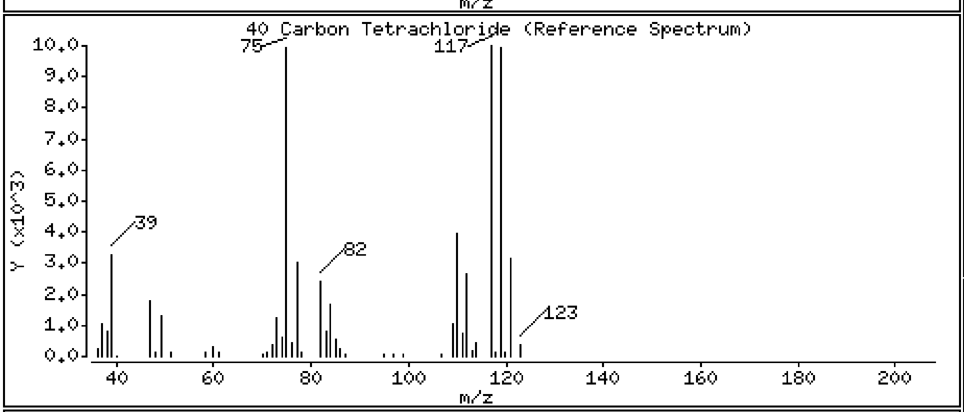
40 Carbon Tetrachloride Concentration: 51.9 ppb Review Code:

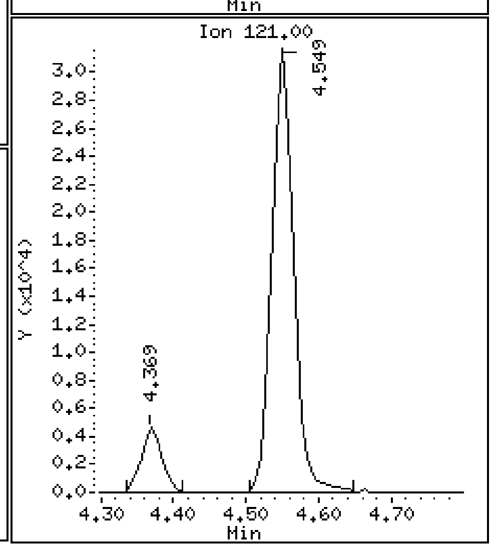


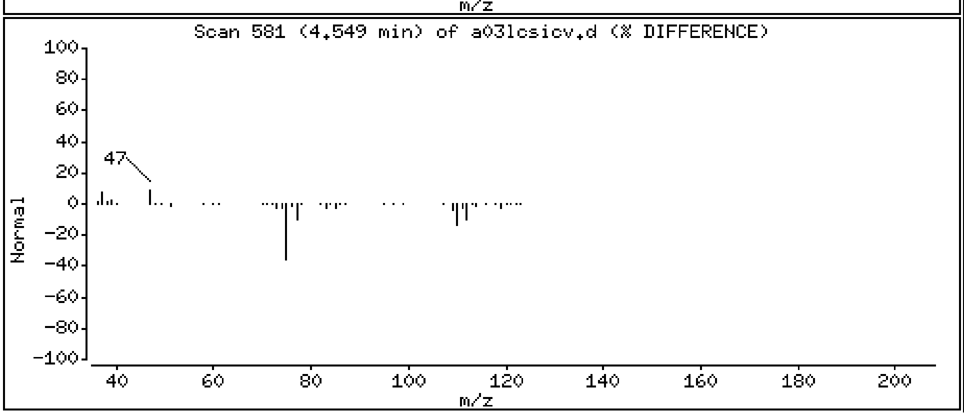












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

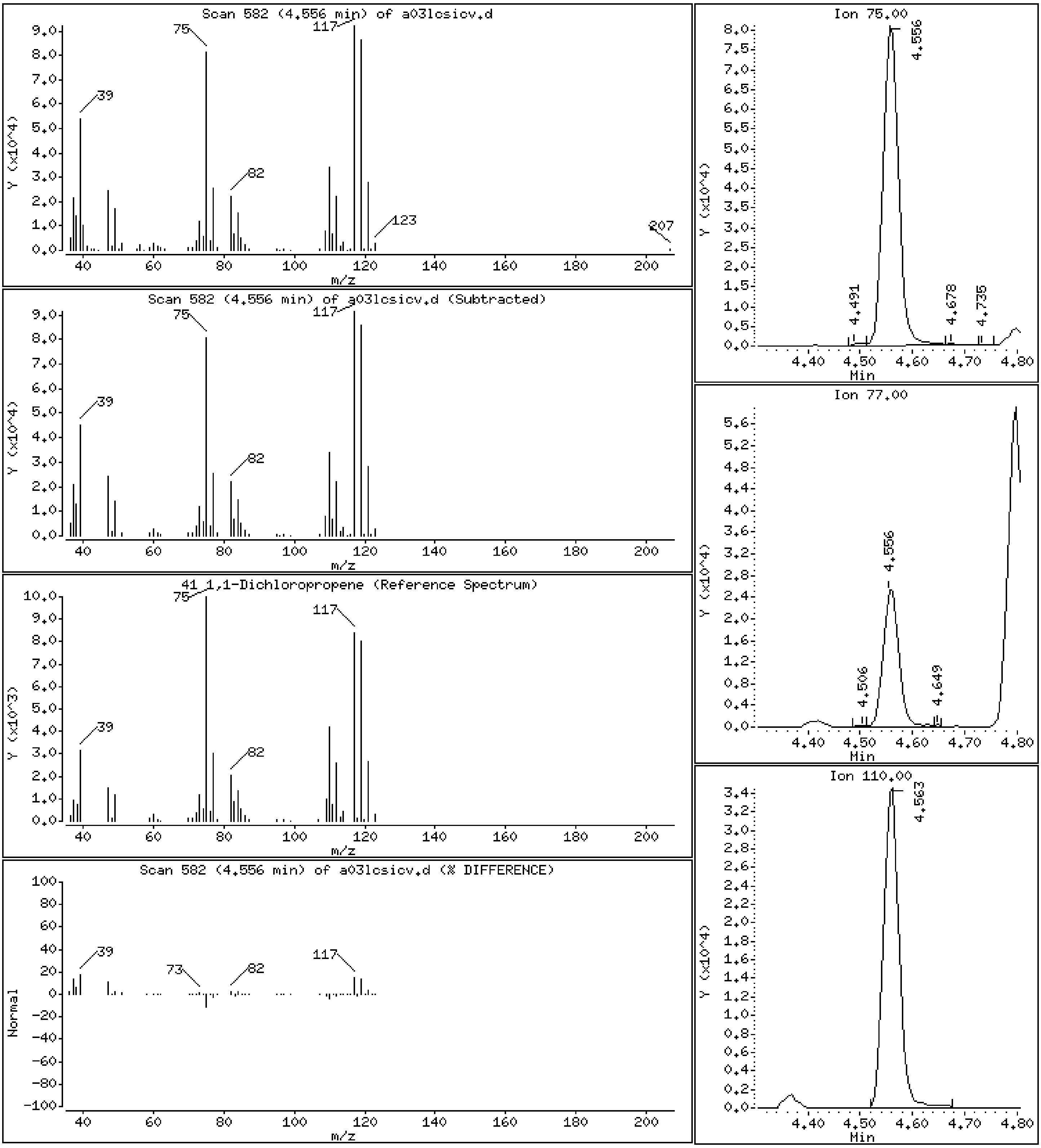
Column phase: DB-624

Column diameter: 0.18

41 1,1-Dichloropropene

Concentration: 45.6 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

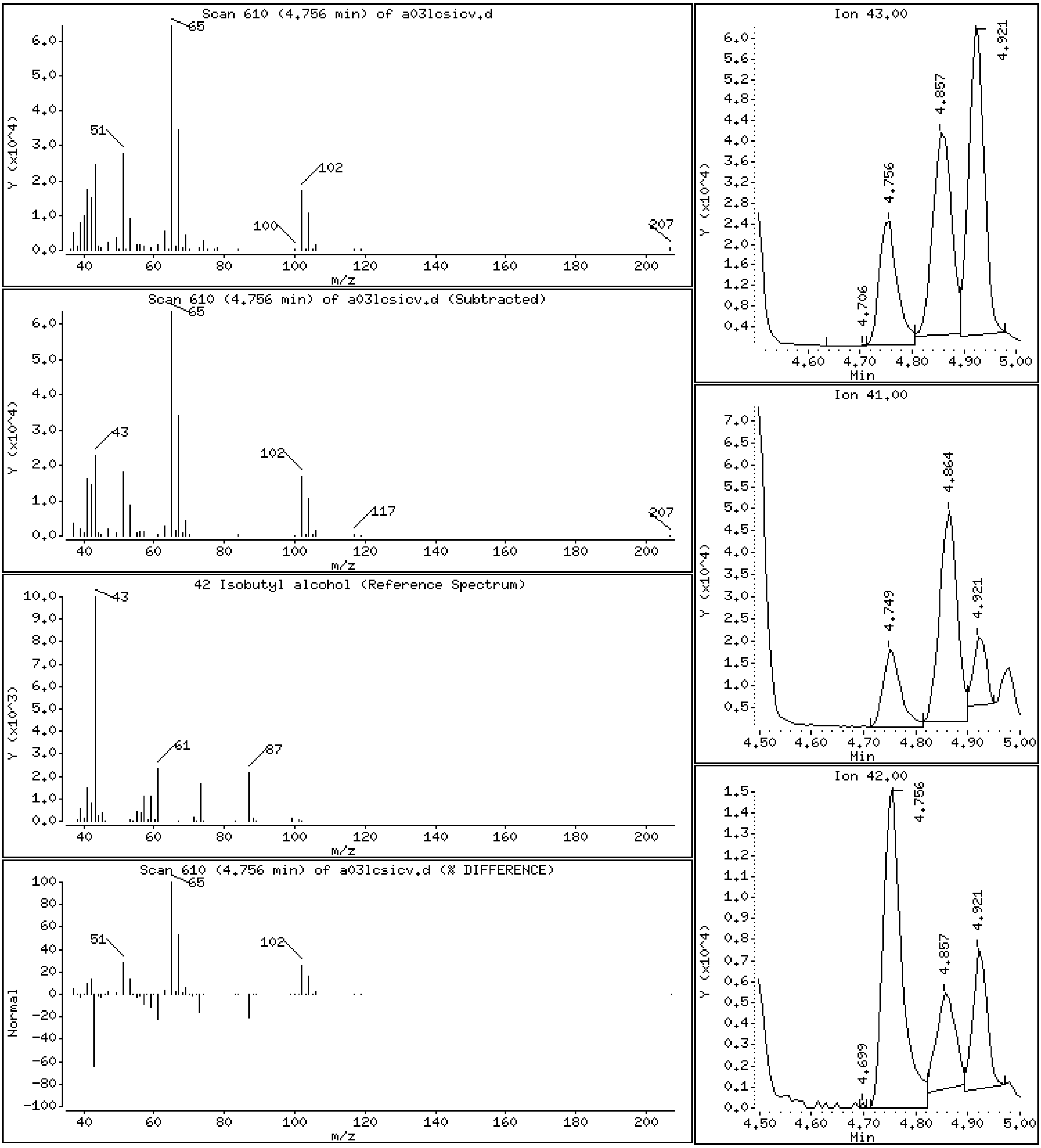
Column phase: DB-624

Column diameter: 0.18

42 Isobutyl alcohol

Concentration: 228 ppb

Review Code:



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Date : 23-JAN-2023 11:36

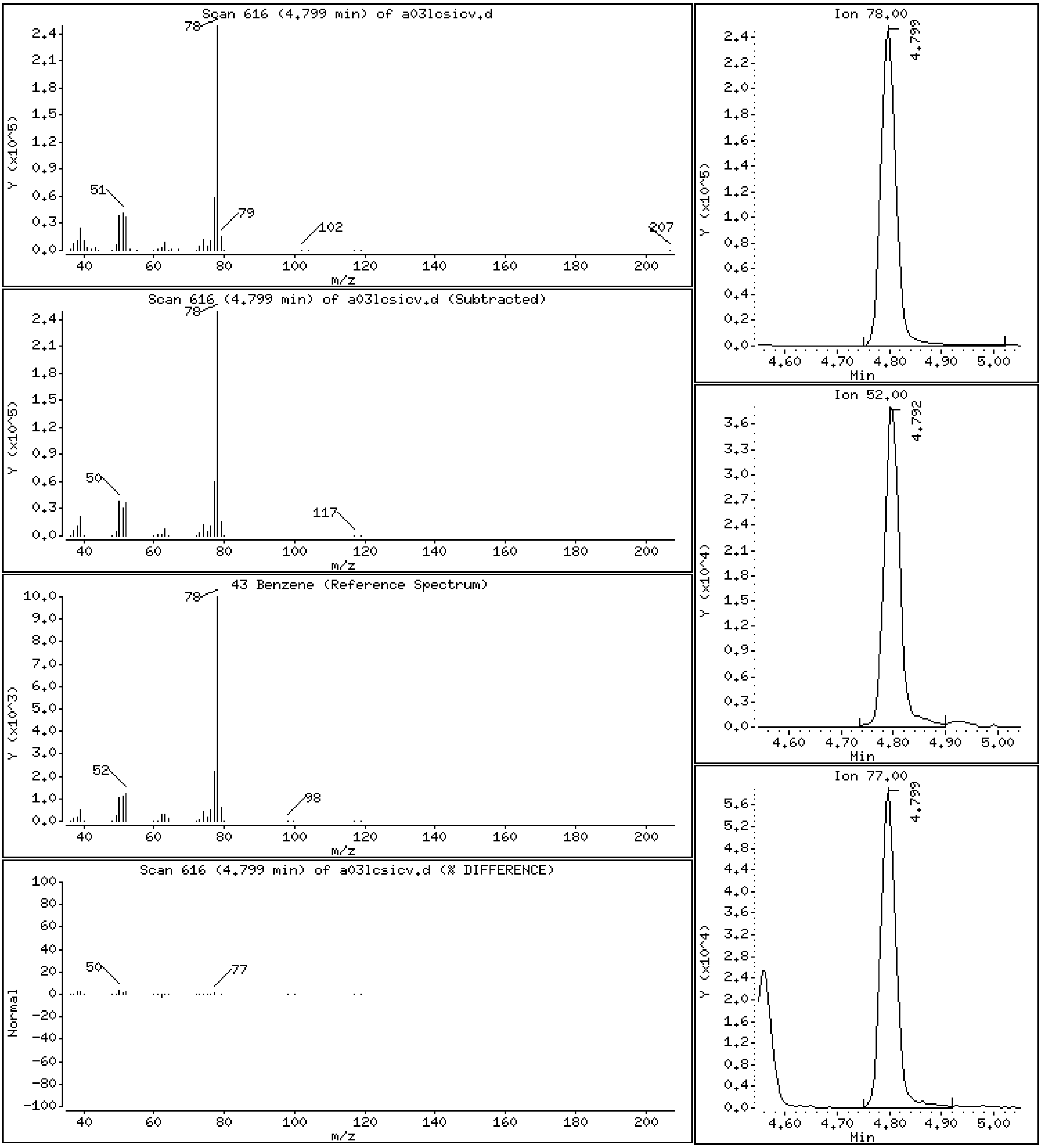
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

43 Benzene Concentration: 43.4 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

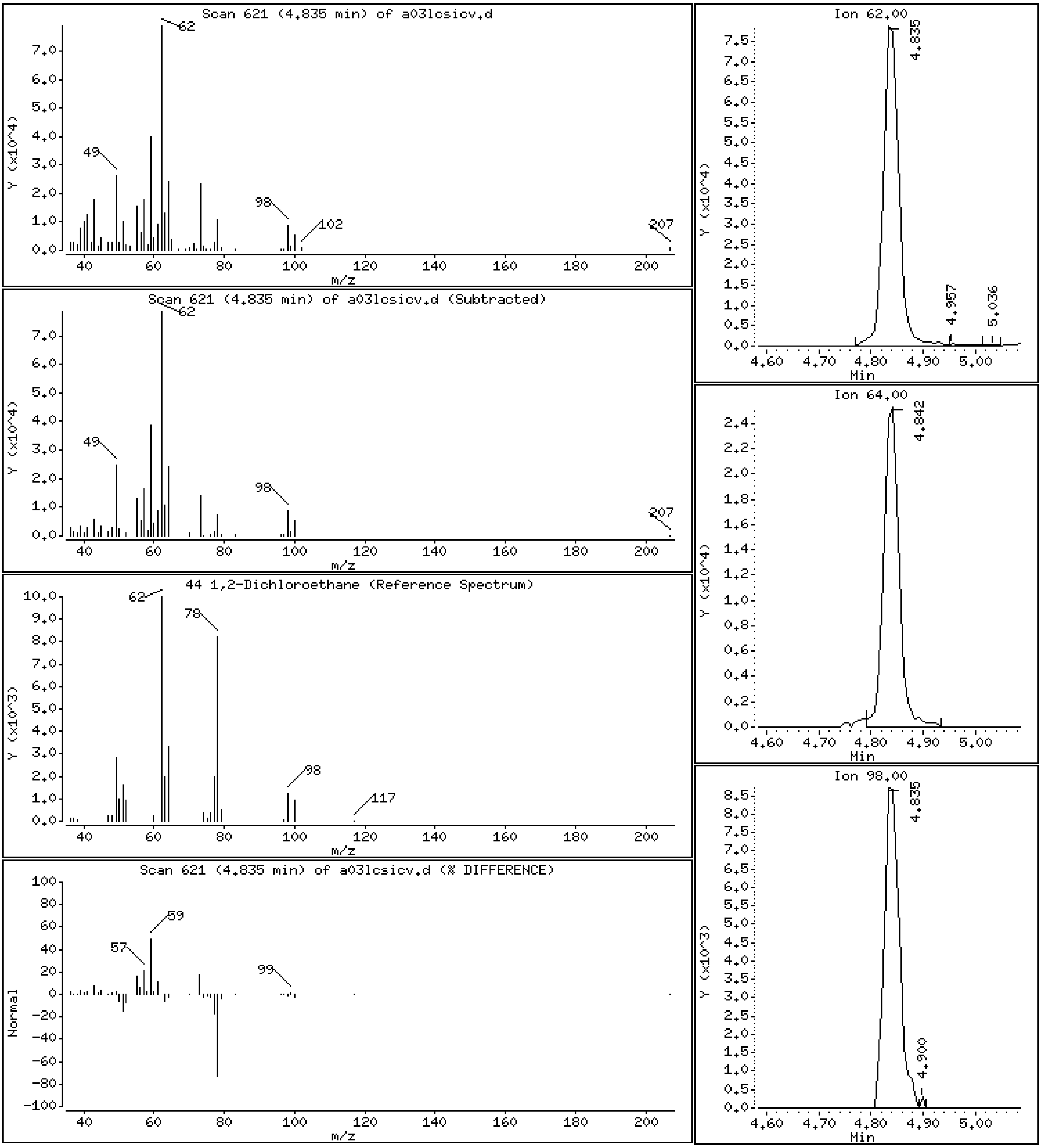
Column phase: DB-624

Column diameter: 0.18

44 1,2-Dichloroethane

Concentration: 43.7 ppb

Review Code:



Date : 23-JAN-2023 11:36

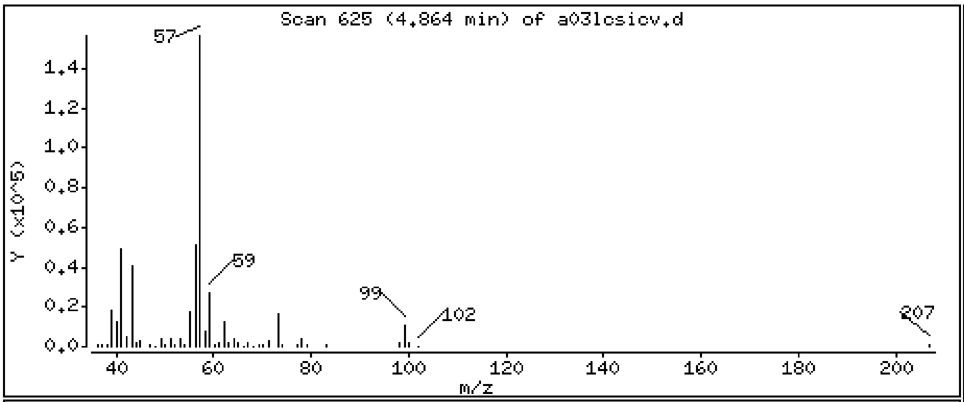
Client ID: Instrument: 50mvda.i

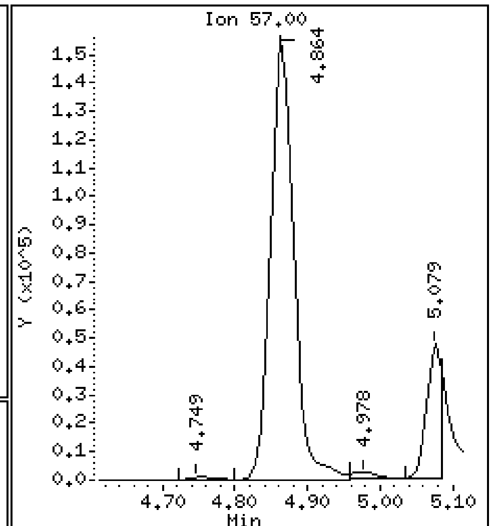
Sample Info: 8260-ICV

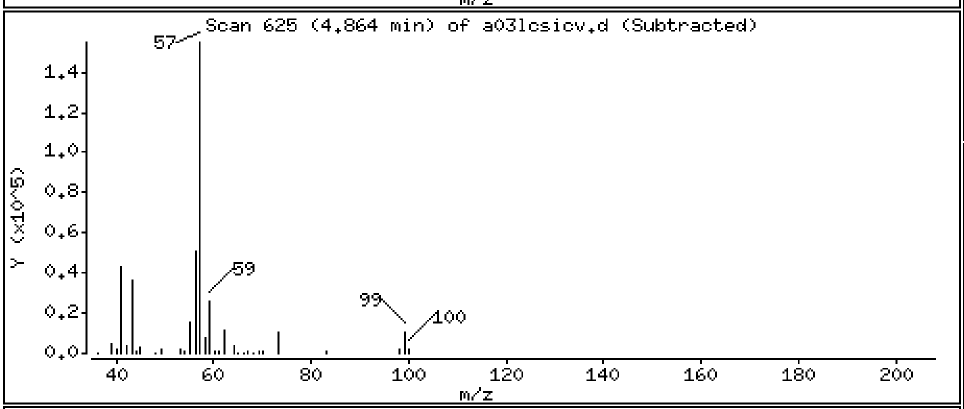
Purge Volume: 5.0 Operator: tkg

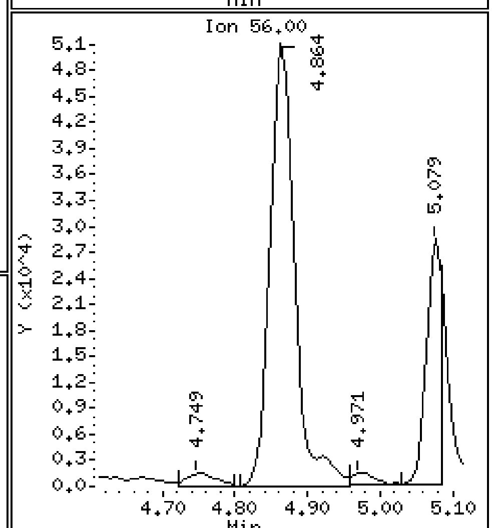
Column phase: DB-624 Column diameter: 0.18

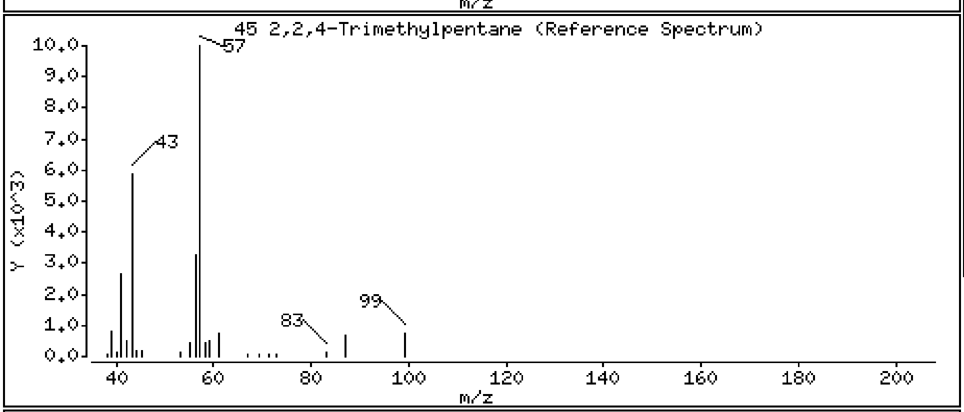
45 2,2,4-Trimethylpentane Concentration: 41.8 ppb Review Code:

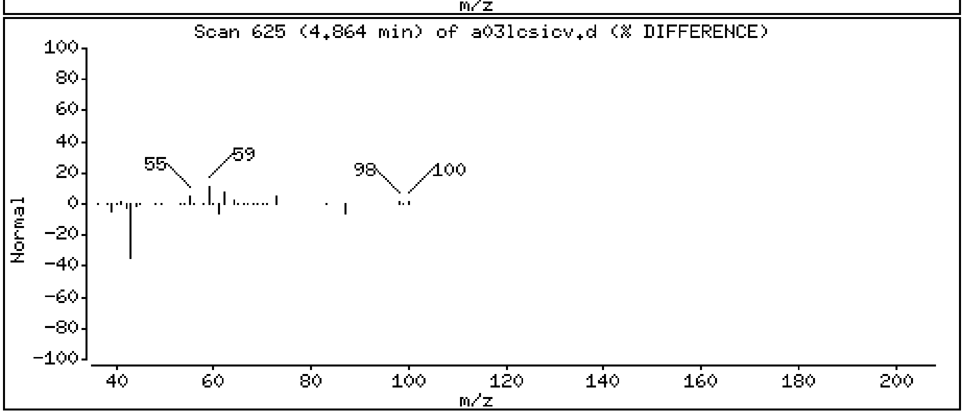












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

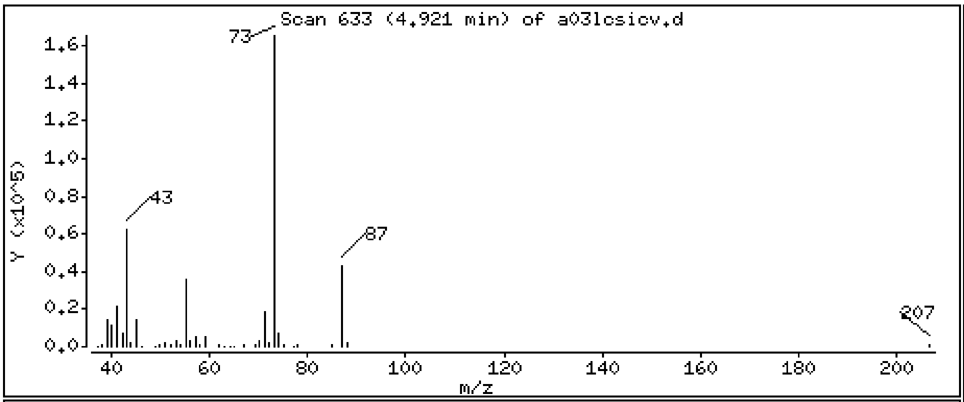
Column phase: DB-624

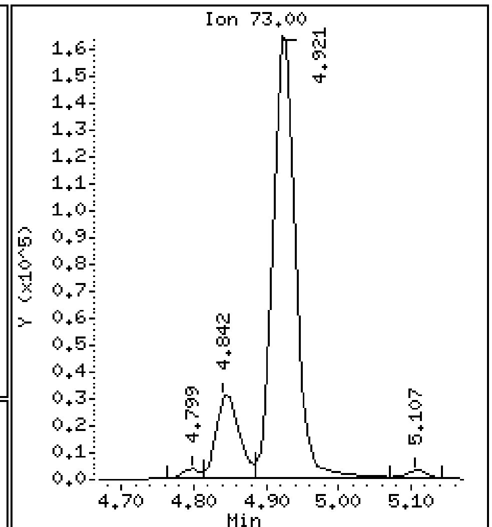
Column diameter: 0.18

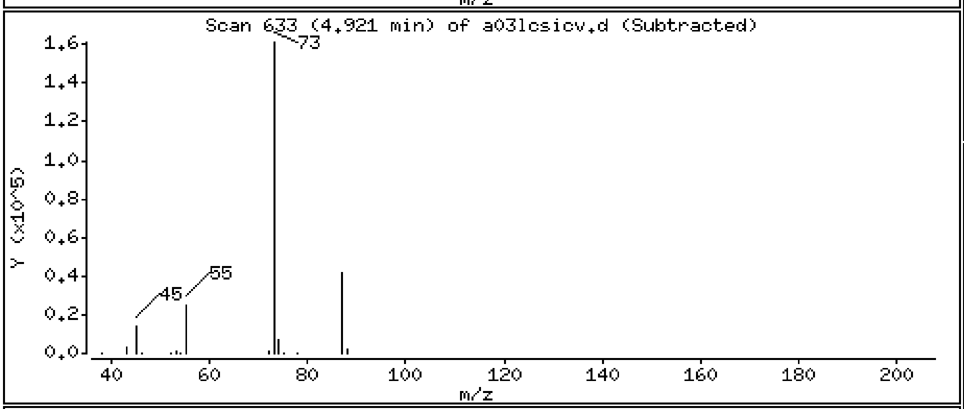
46 tert-Amylmethyl ether

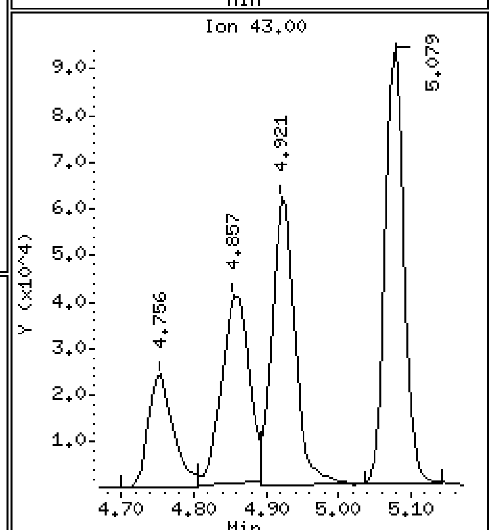
Concentration: 40.2 ppb

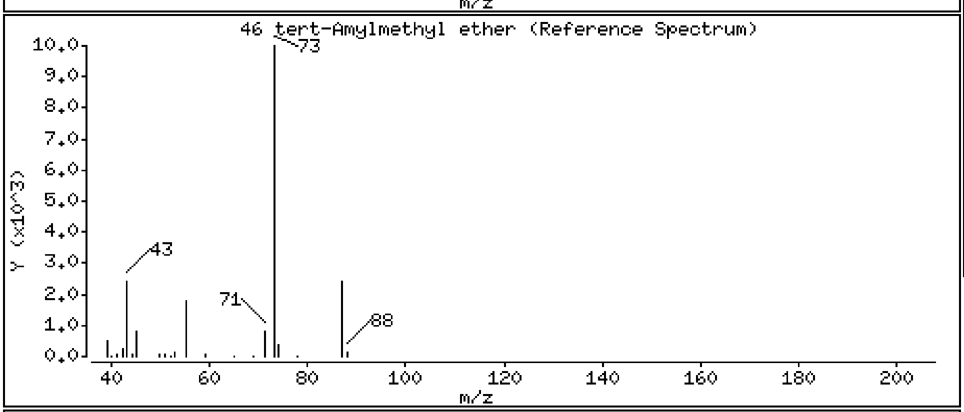
Review Code:

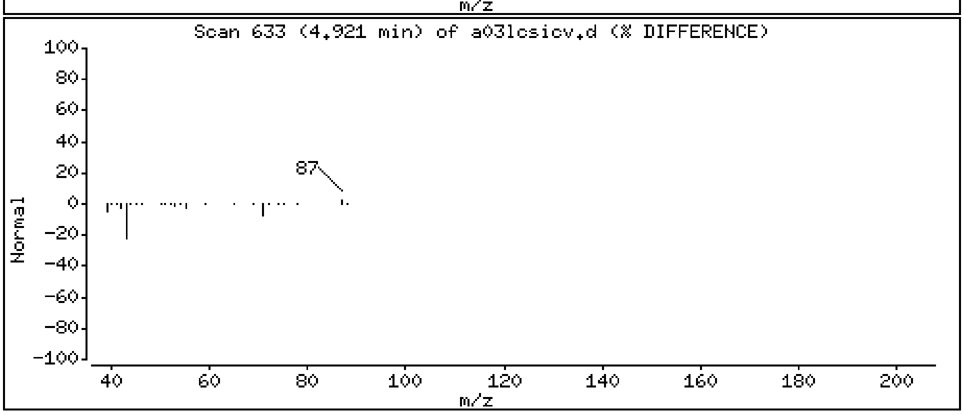












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Date : 23-JAN-2023 11:36

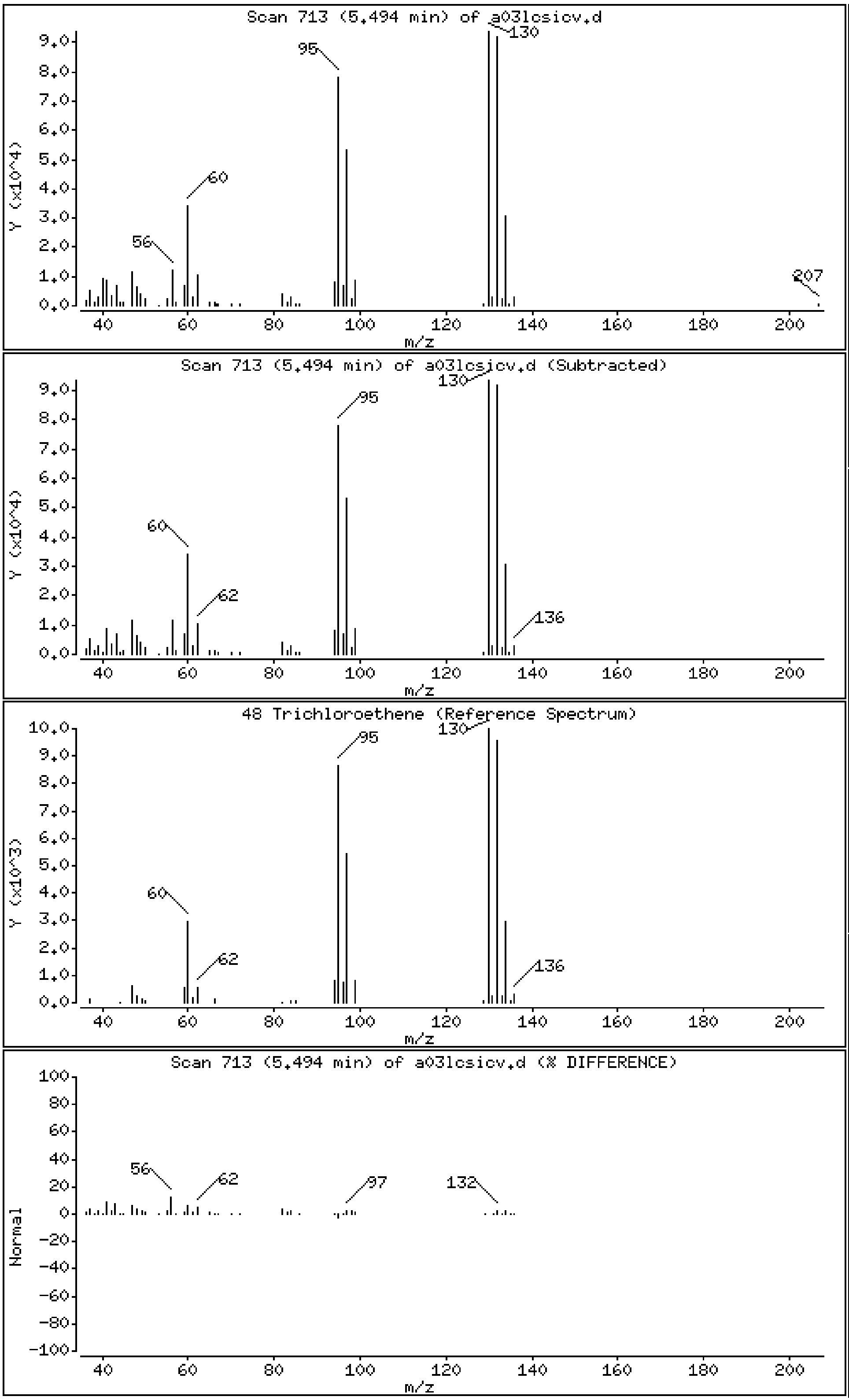
Client ID: Instrument: 50mvda.i

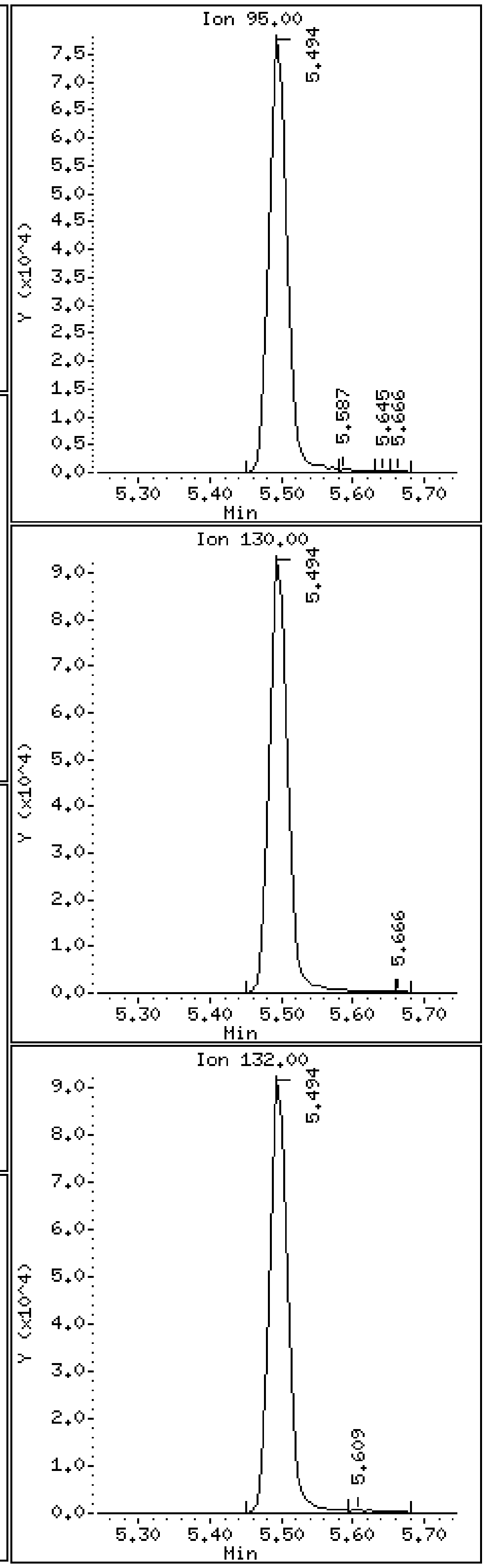
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

48 Trichloroethene Concentration: 45.8 ppb Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

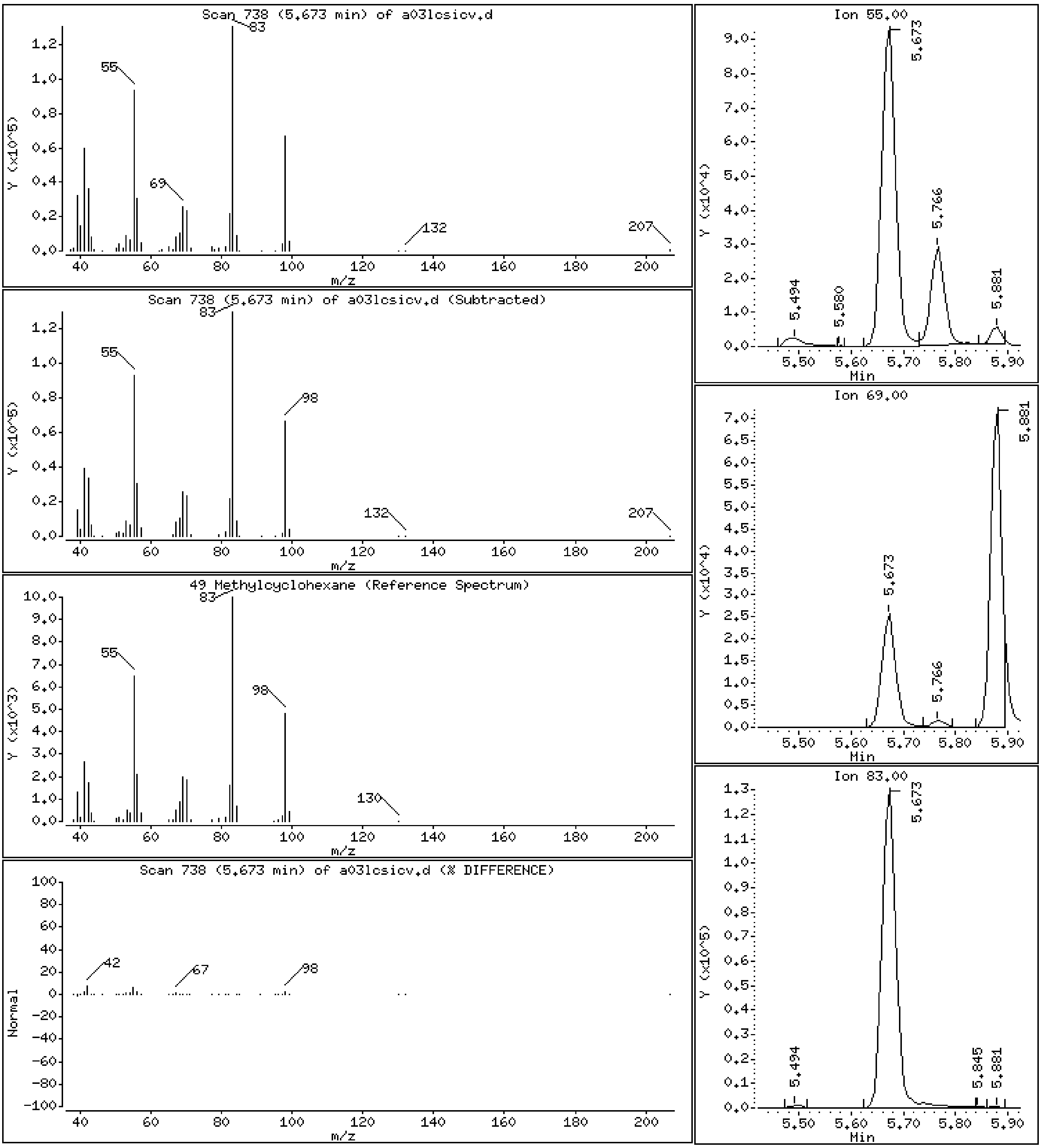
Column phase: DB-624

Column diameter: 0.18

49 Methylcyclohexane

Concentration: 39.1 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

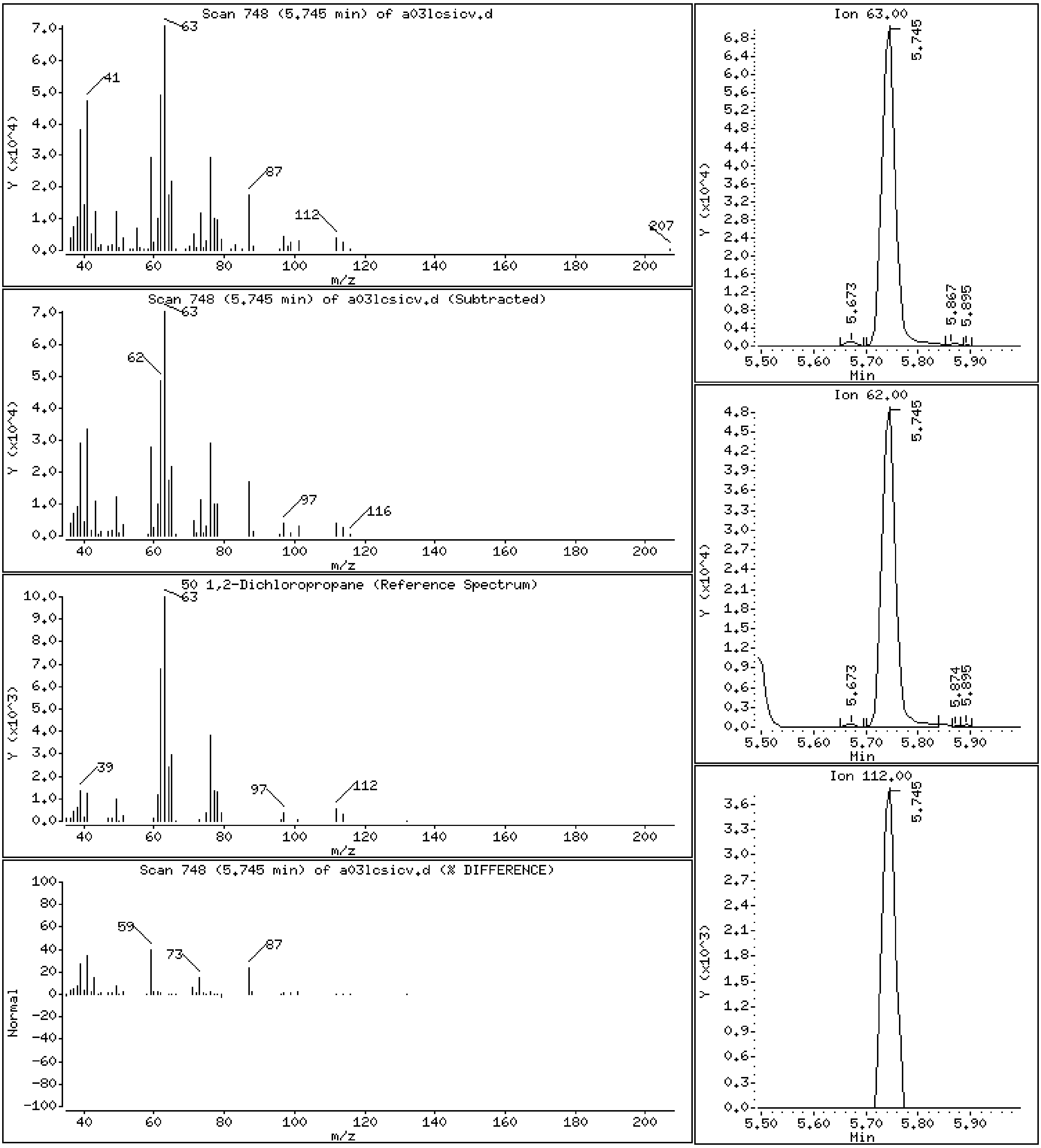
Column phase: DB-624

Column diameter: 0.18

50 1,2-Dichloropropane

Concentration: 41.5 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

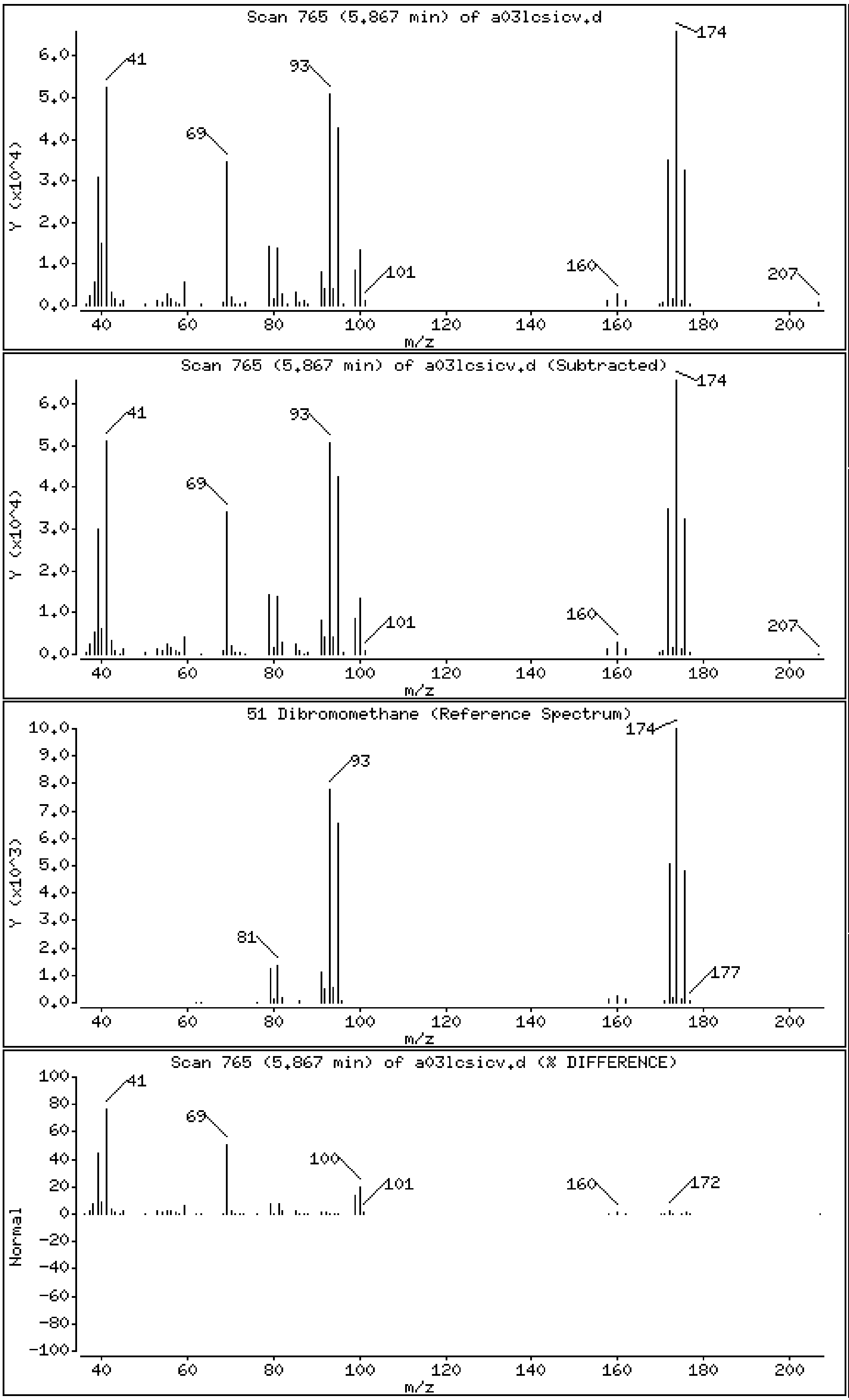
Column phase: DB-624

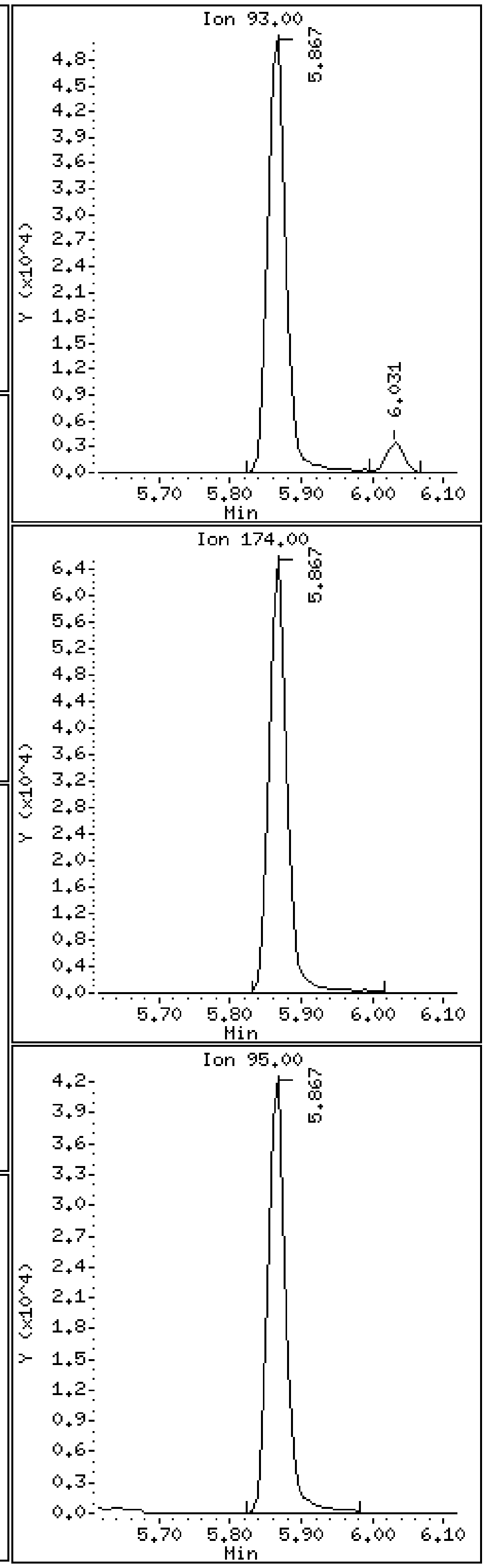
Column diameter: 0.18

51 Dibromomethane

Concentration: 47.7 ppb

Review Code:





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Date : 23-JAN-2023 11:36

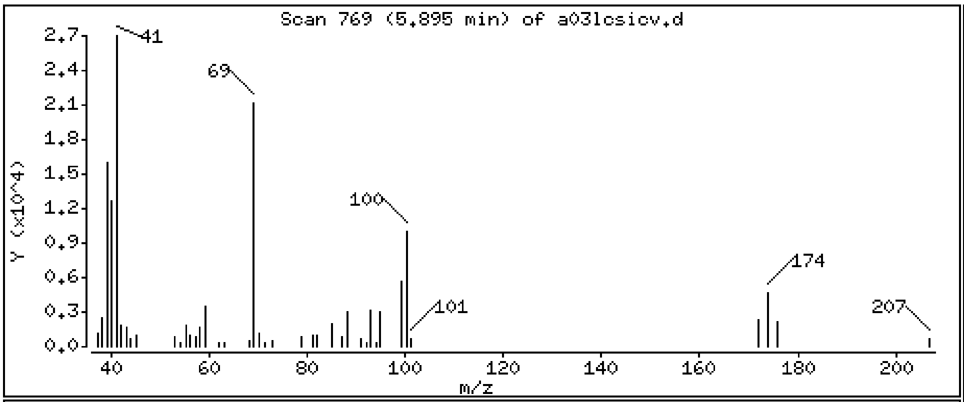
Client ID: Instrument: 50mvda.i

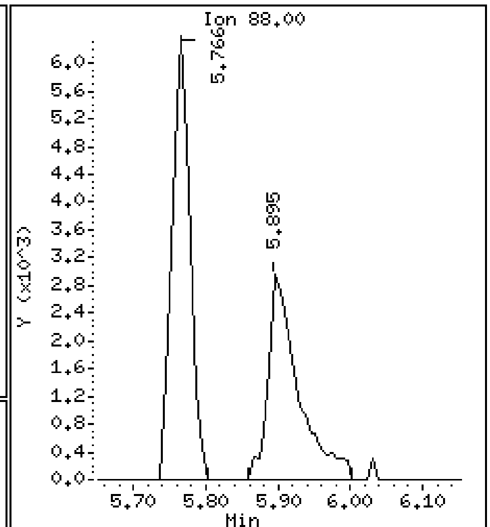
Sample Info: 8260-ICV

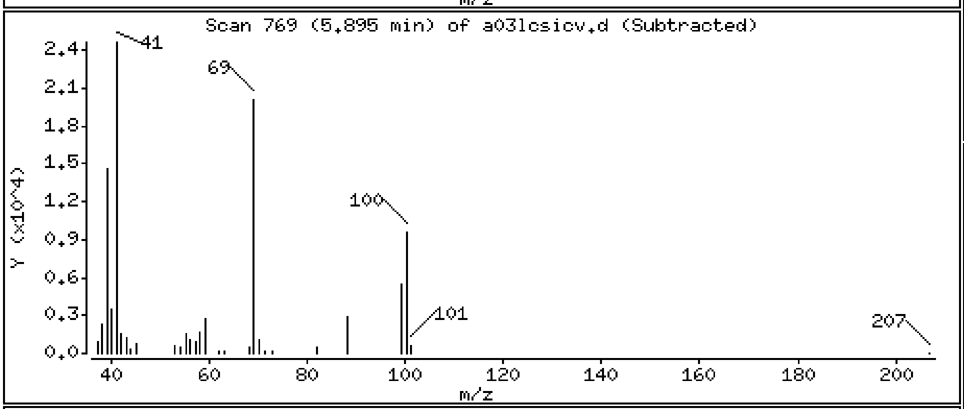
Purge Volume: 5.0 Operator: tkg

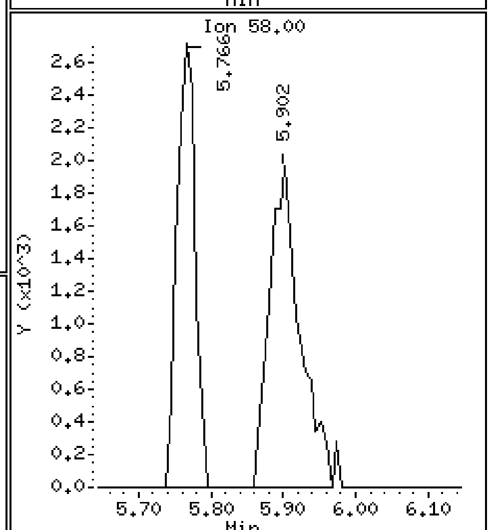
Column phase: DB-624 Column diameter: 0.18

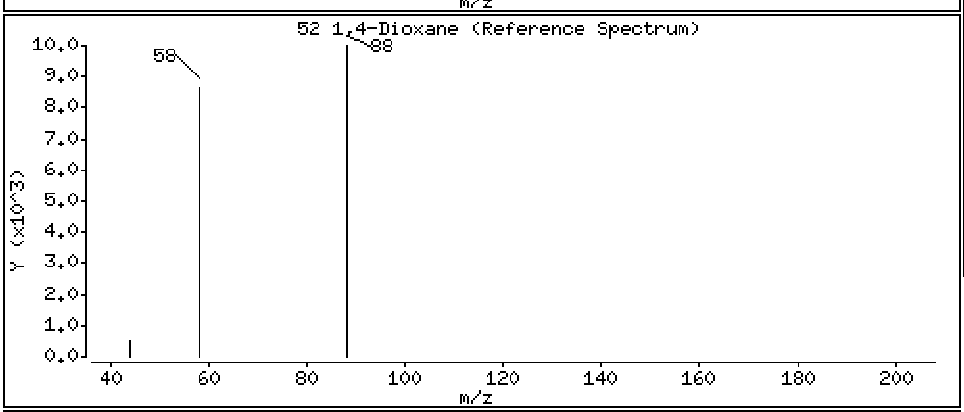
52 1,4-Dioxane Concentration: 451 ppb Review Code:

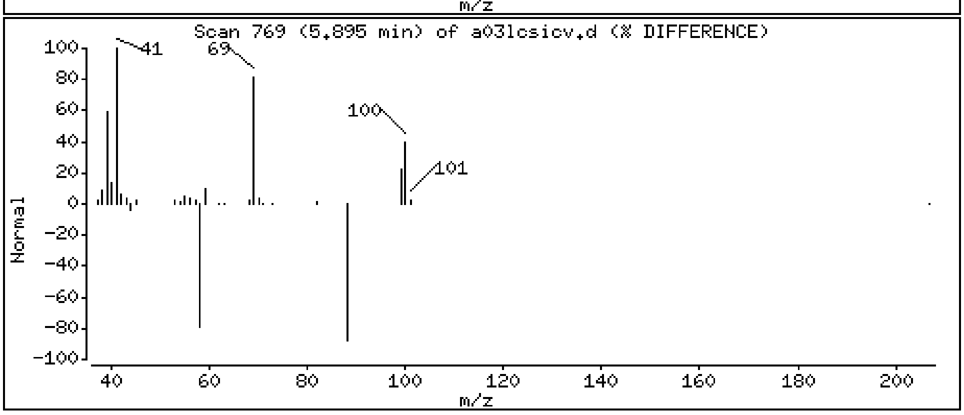












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

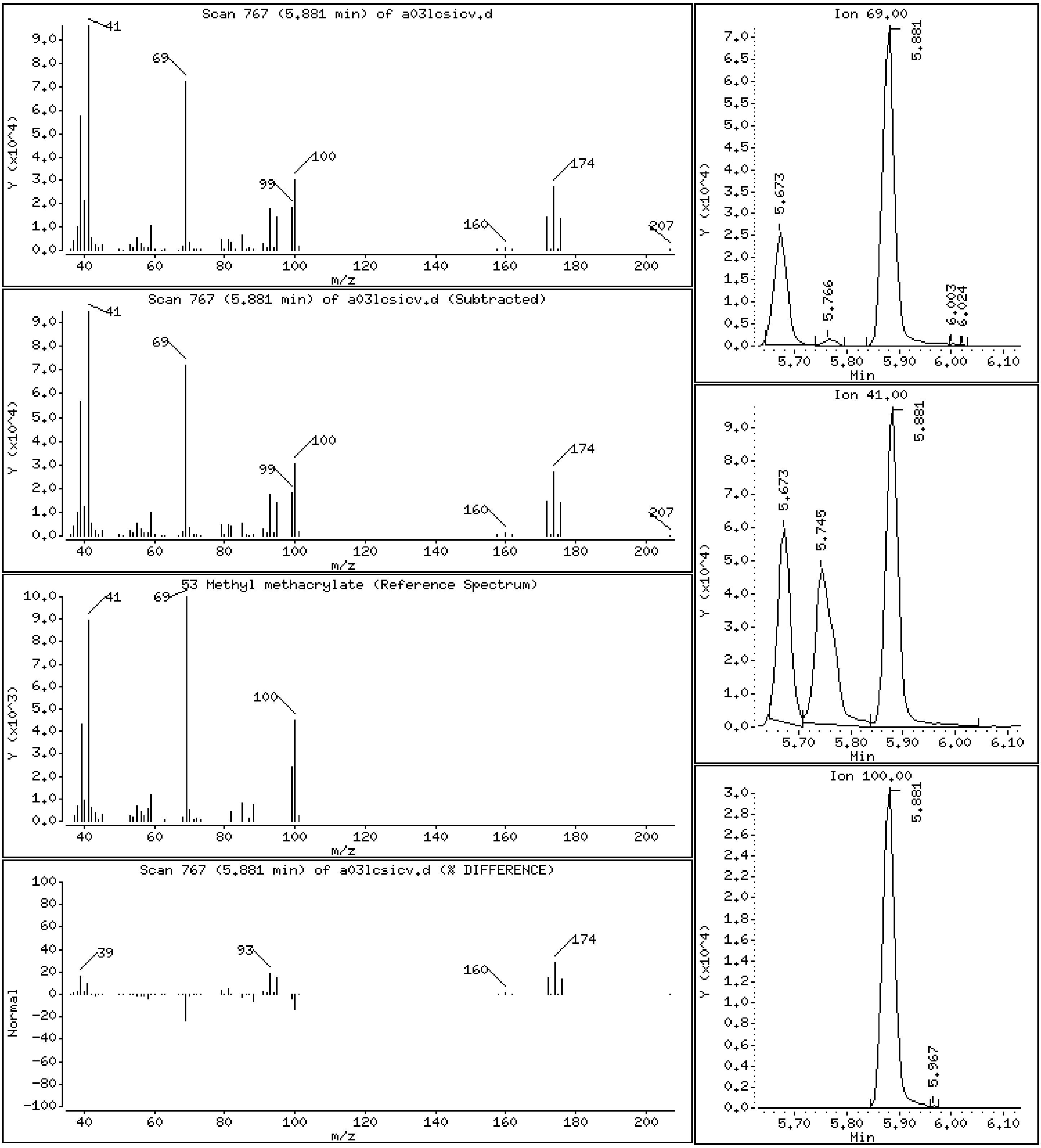
Column phase: DB-624

Column diameter: 0.18

53 Methyl methacrylate

Concentration: 41.6 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

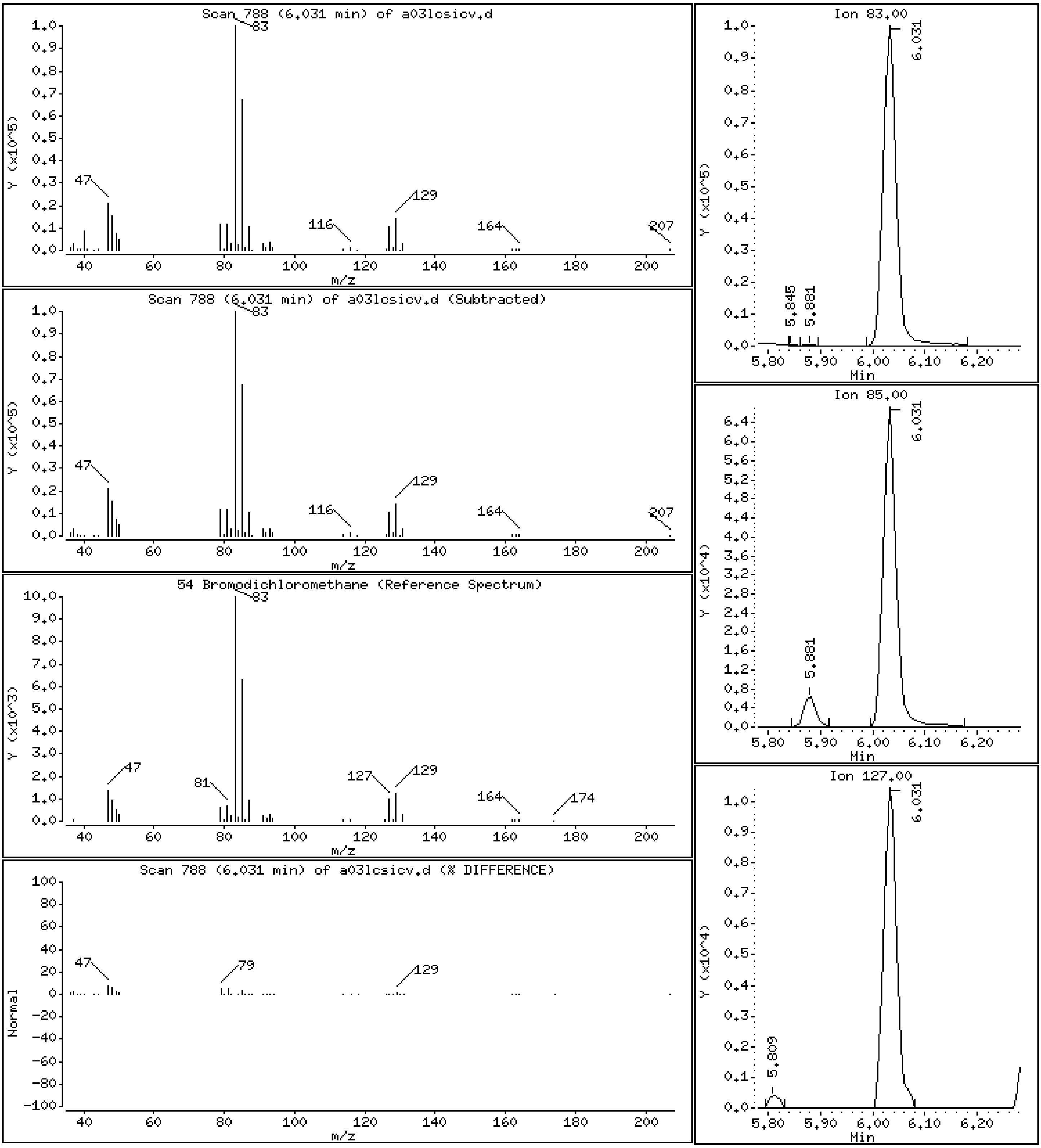
Column phase: DB-624

Column diameter: 0.18

54 Bromodichloromethane

Concentration: 47.3 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

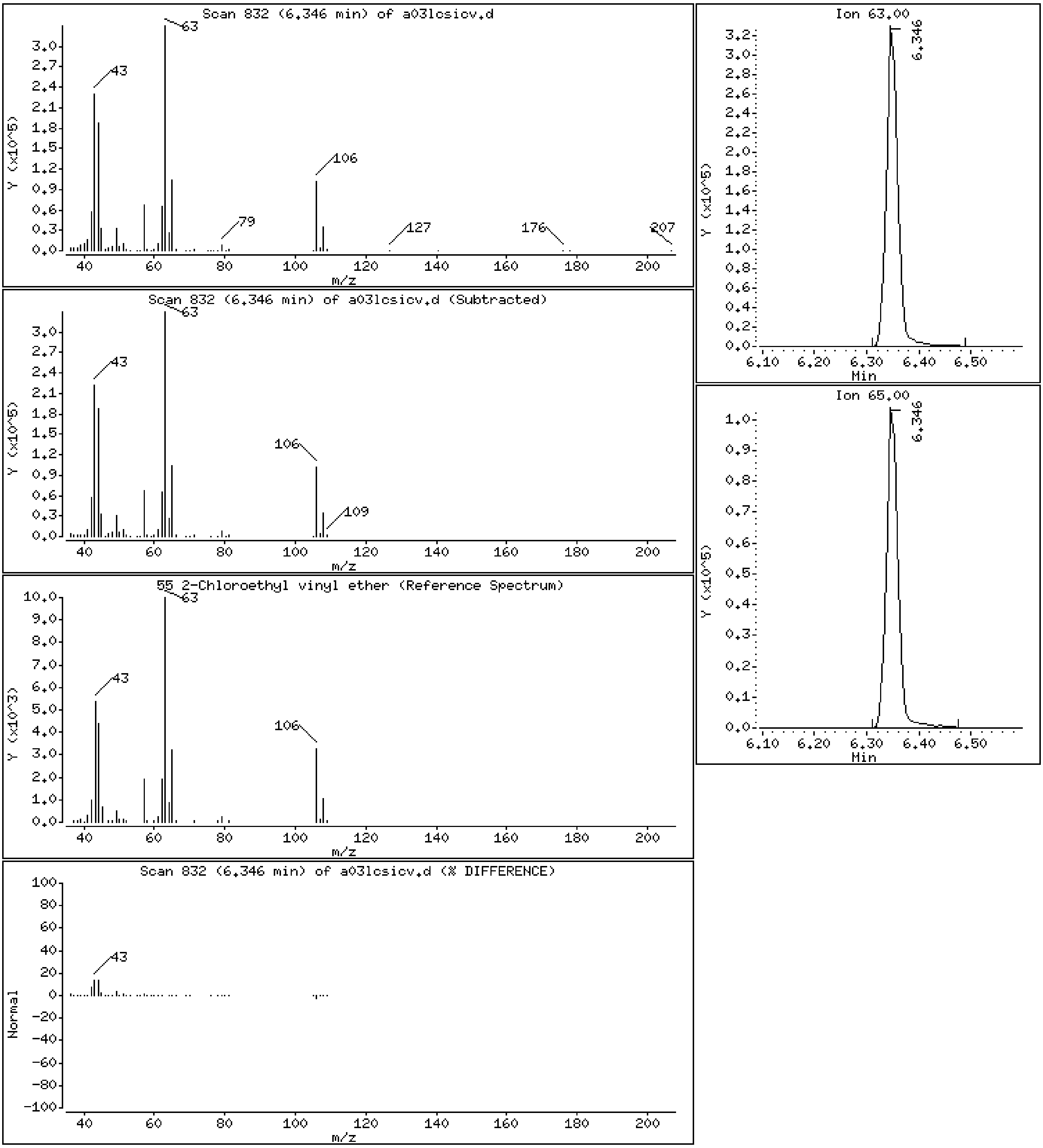
Column phase: DB-624

Column diameter: 0.18

55 2-Chloroethyl vinyl ether

Concentration: 206 ppb

Review Code:



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Date : 23-JAN-2023 11:36

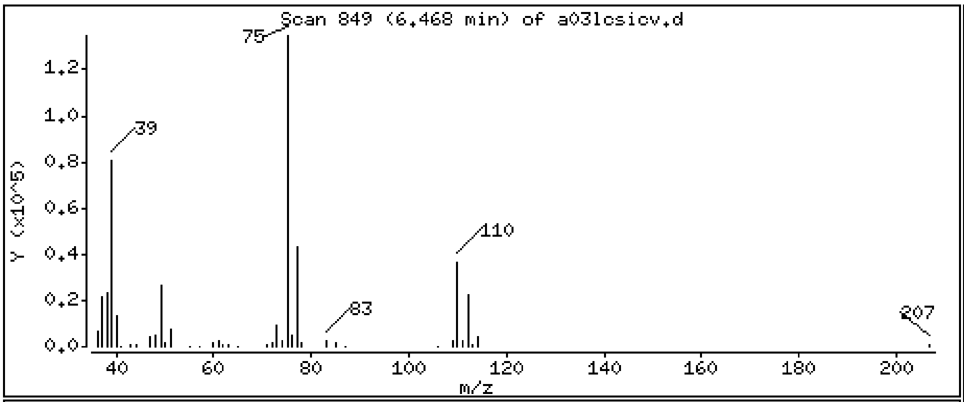
Client ID: Instrument: 50mvda.i

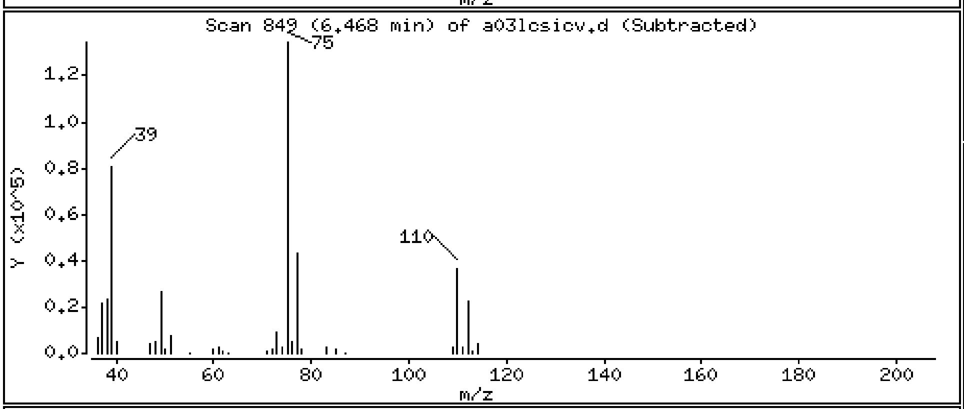
Sample Info: 8260-ICV

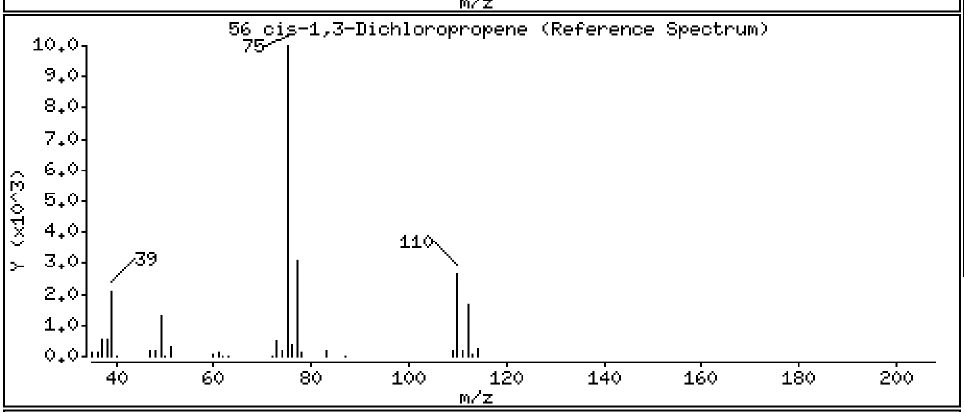
Purge Volume: 5.0 Operator: tkg

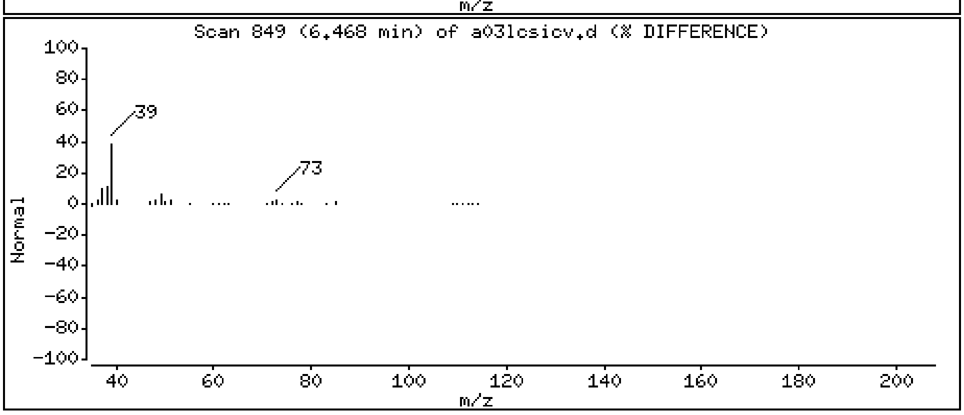
Column phase: DB-624 Column diameter: 0.18

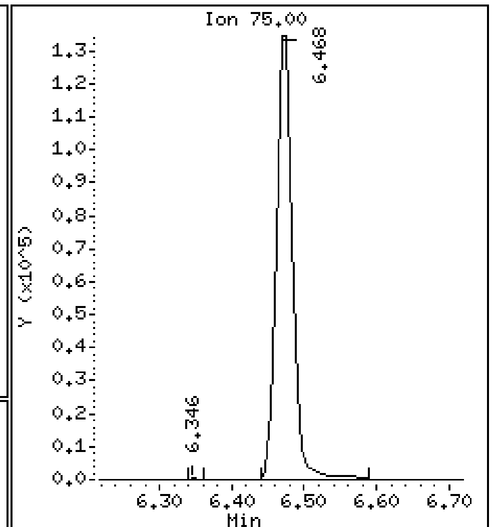
56 cis-1,3-Dichloropropene Concentration: 42.3 ppb Review Code:

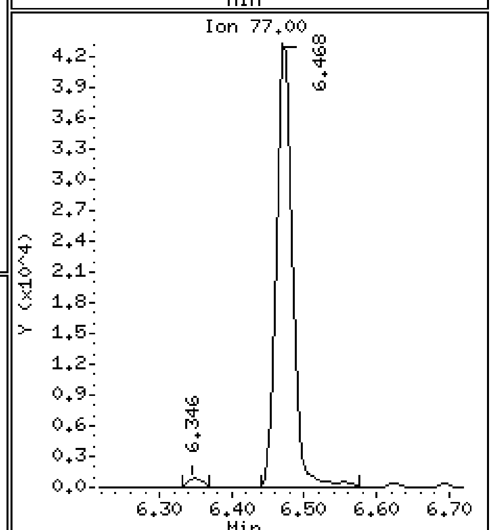












Date : 23-JAN-2023 11:36

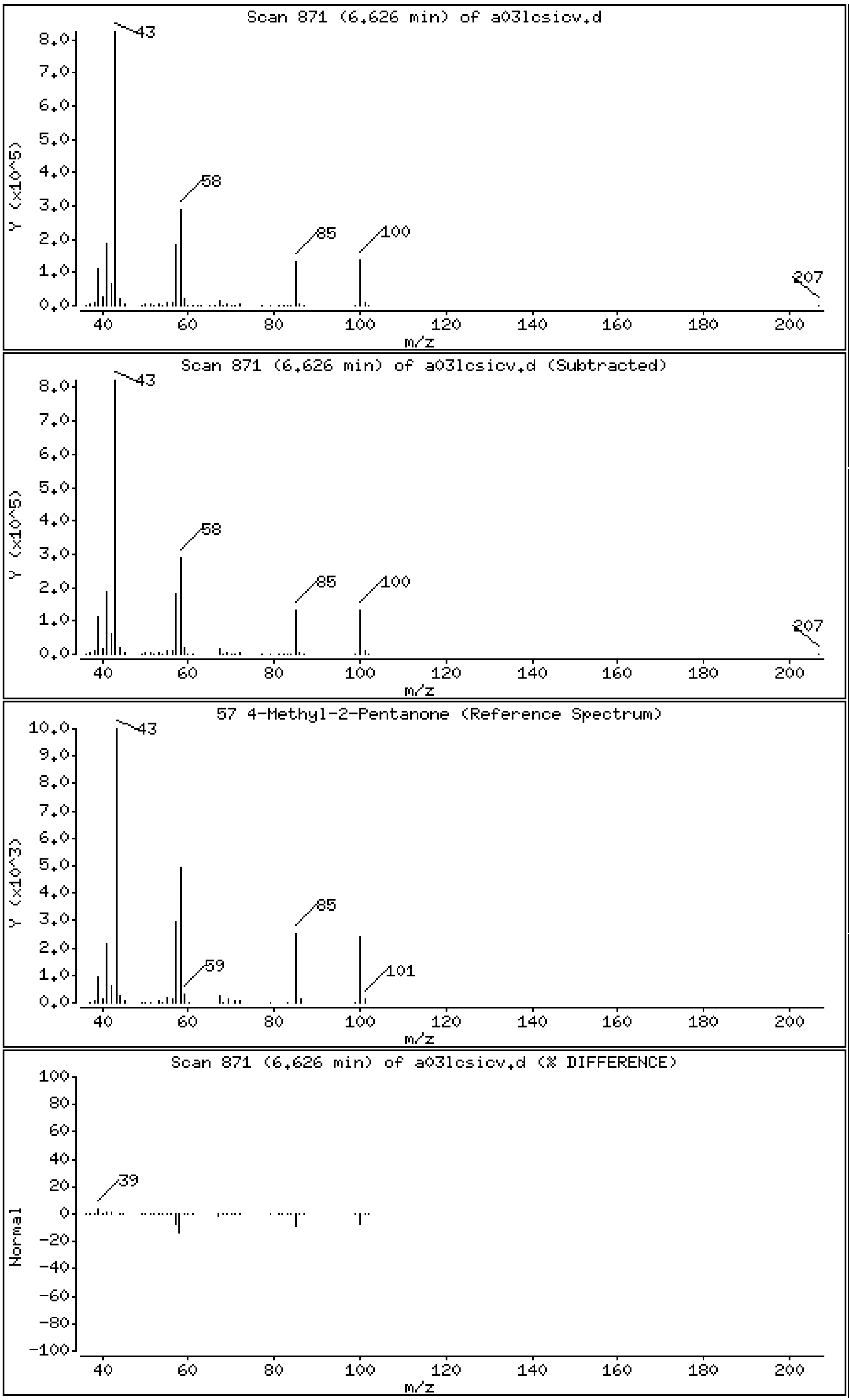
Client ID: Instrument: 50mvda.i

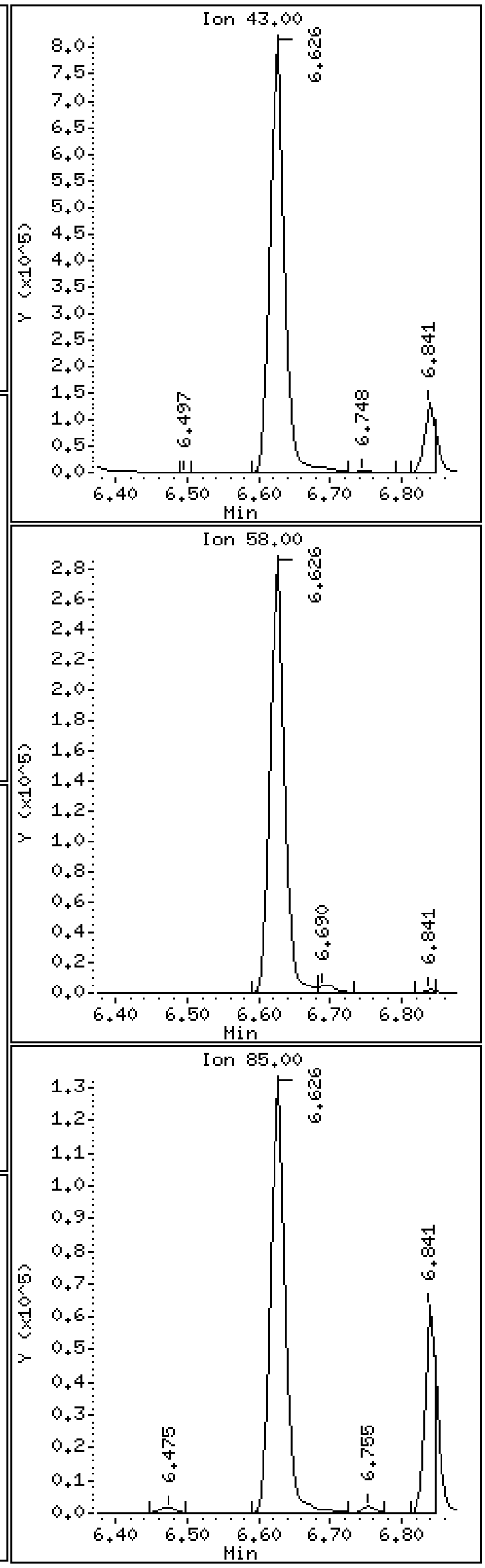
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

57 4-Methyl-2-Pentanone Concentration: 199 ppb Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

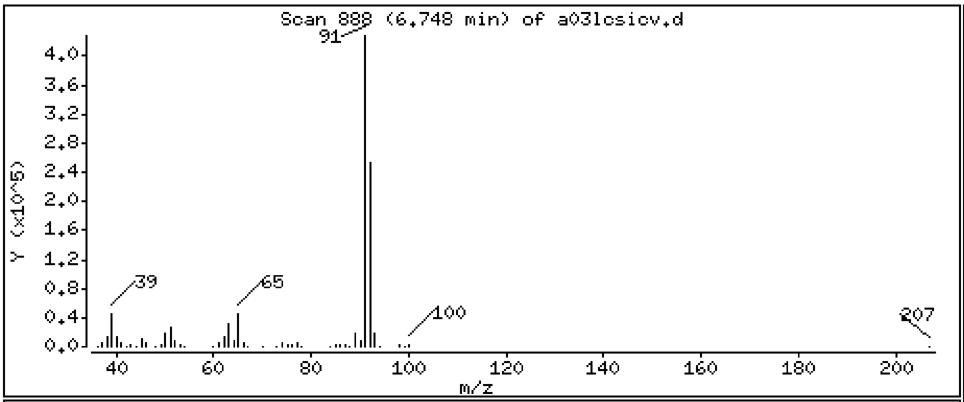
Column phase: DB-624

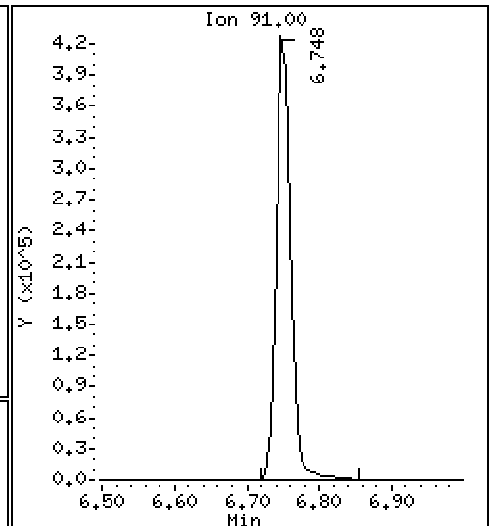
Column diameter: 0.18

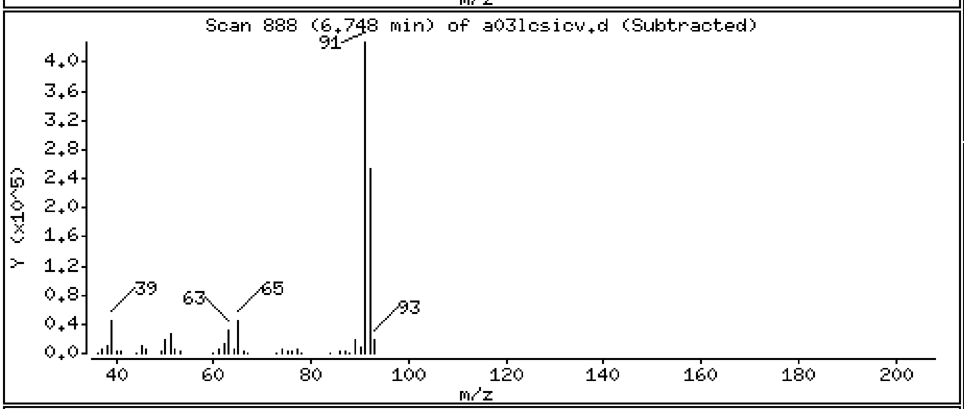
59 Toluene

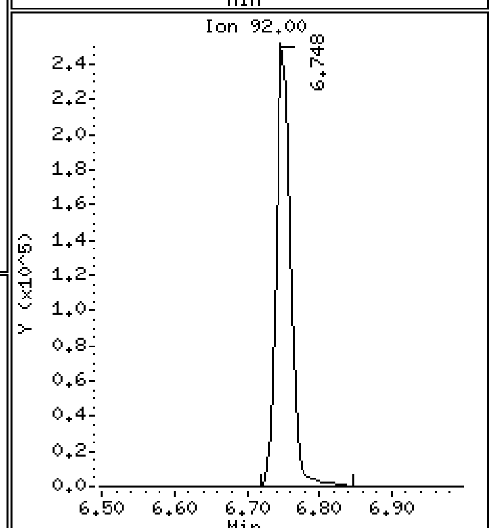
Concentration: 40.2 ppb

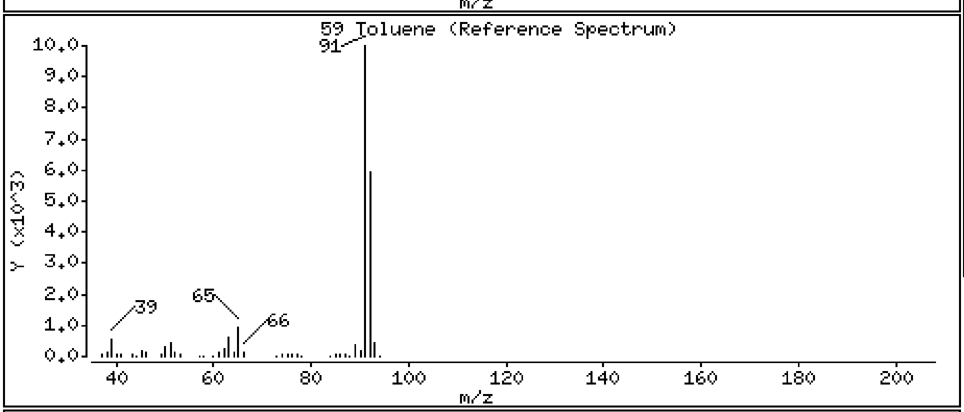
Review Code:

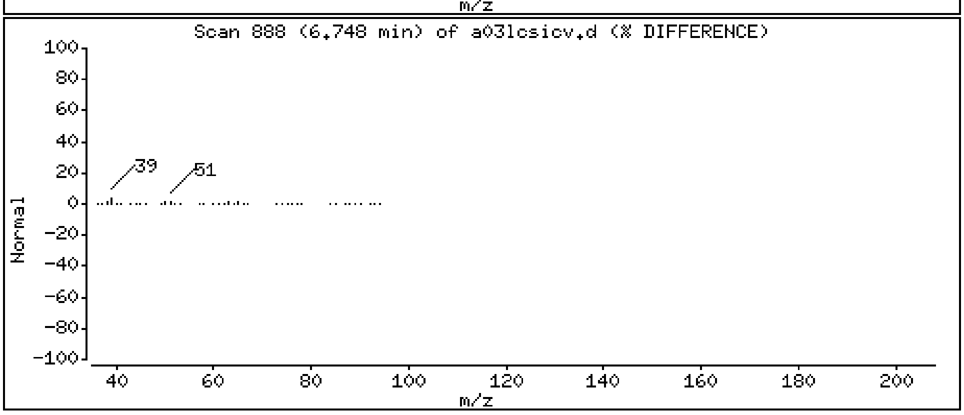












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

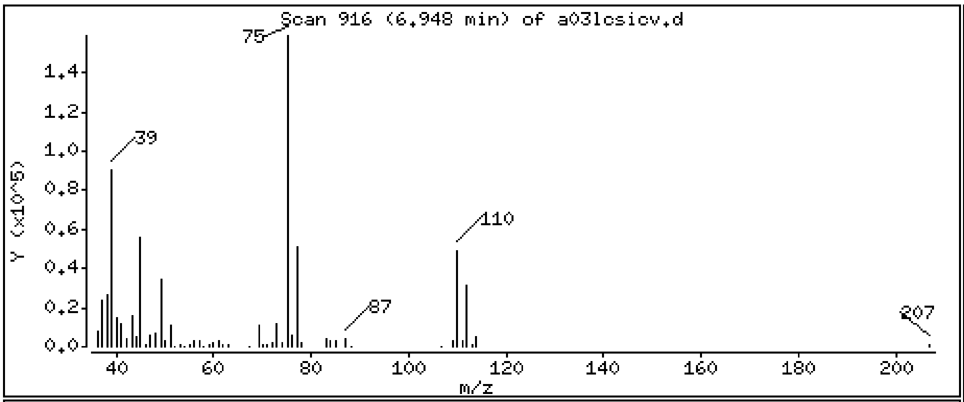
Column phase: DB-624

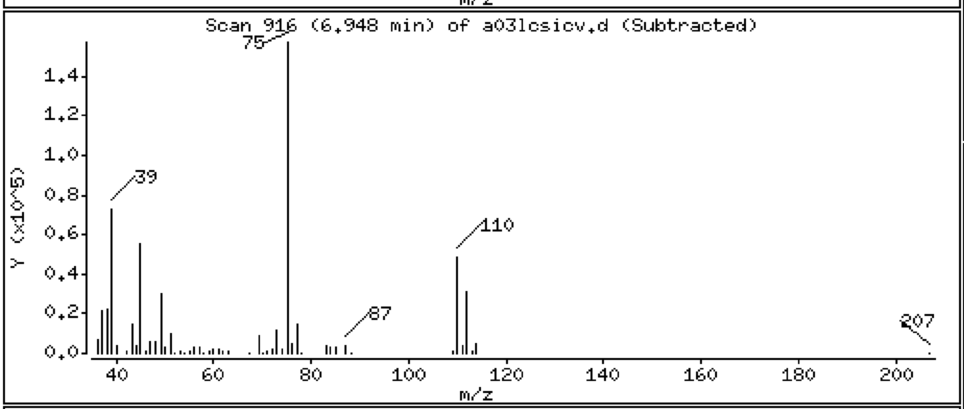
Column diameter: 0.18

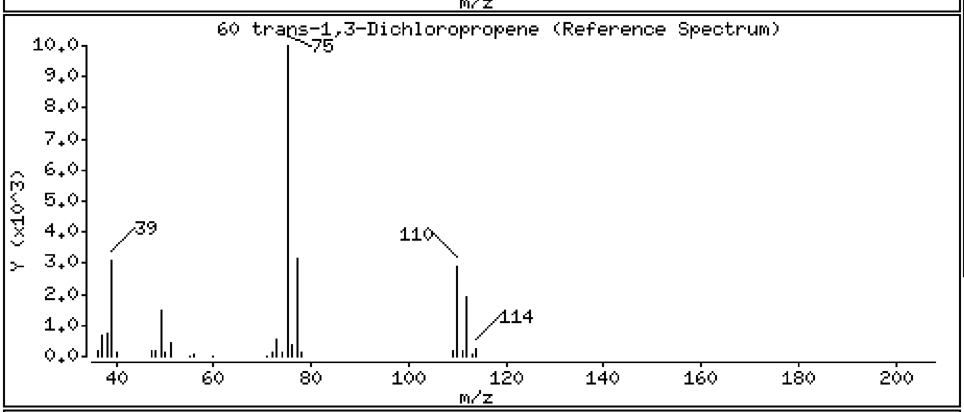
60 trans-1,3-Dichloropropene

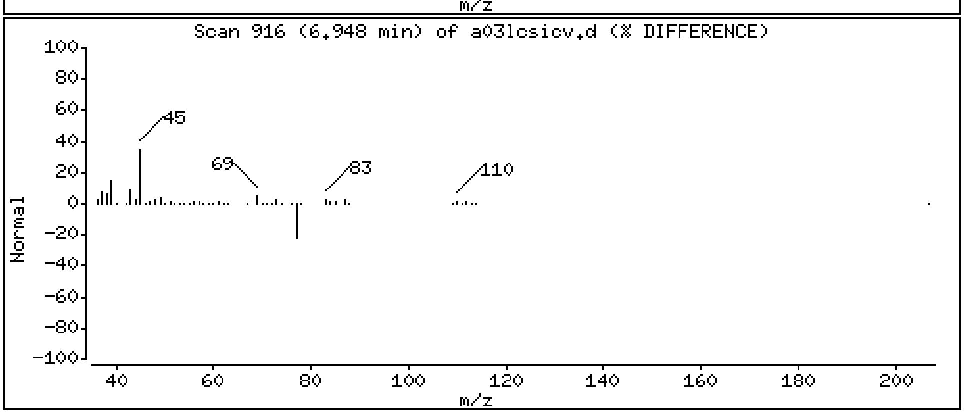
Concentration: 40.9 ppb

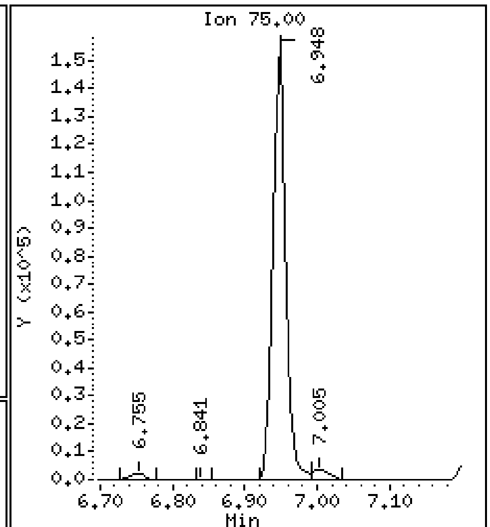
Review Code:

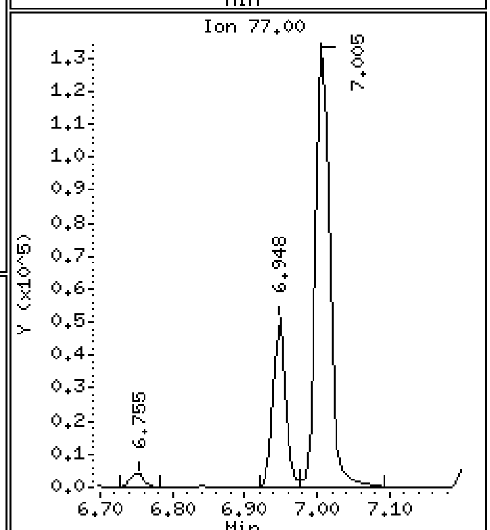












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Date : 23-JAN-2023 11:36

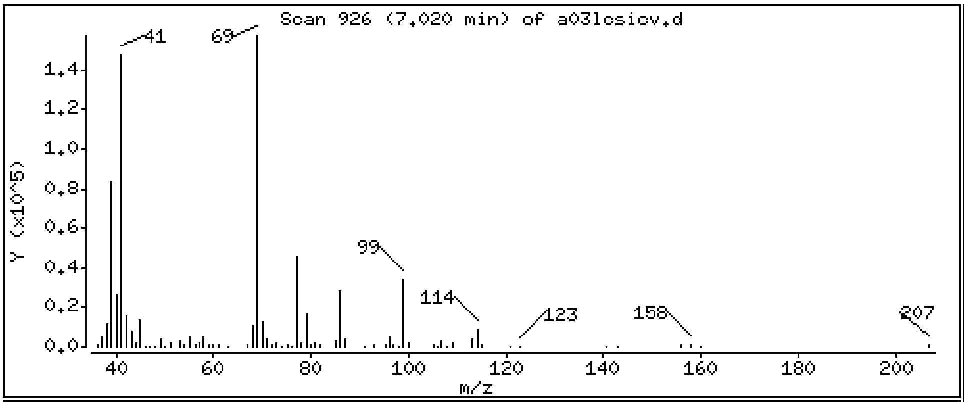
Client ID: Instrument: 50mvda.i

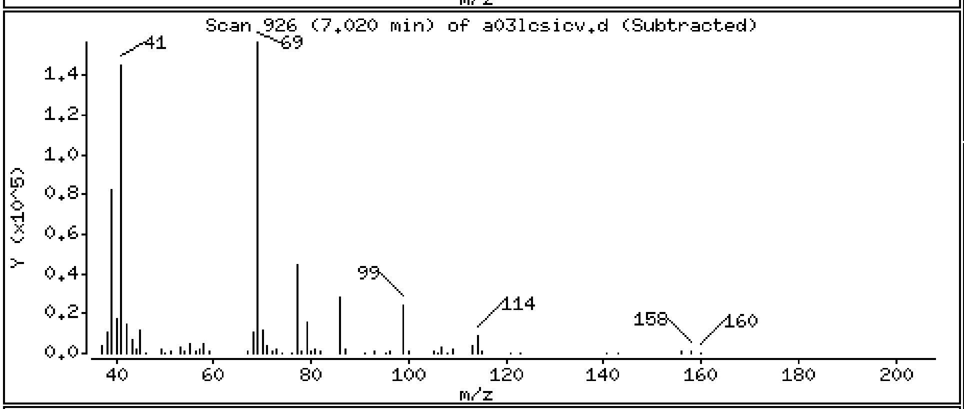
Sample Info: 8260-ICV

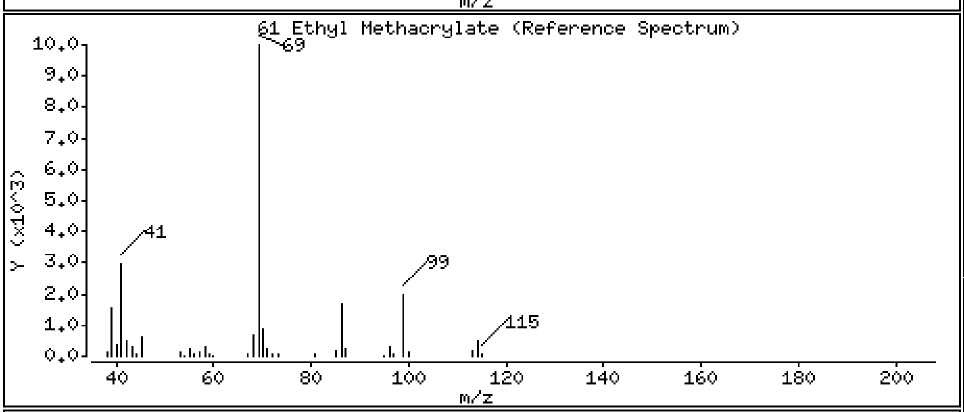
Purge Volume: 5.0 Operator: tkg

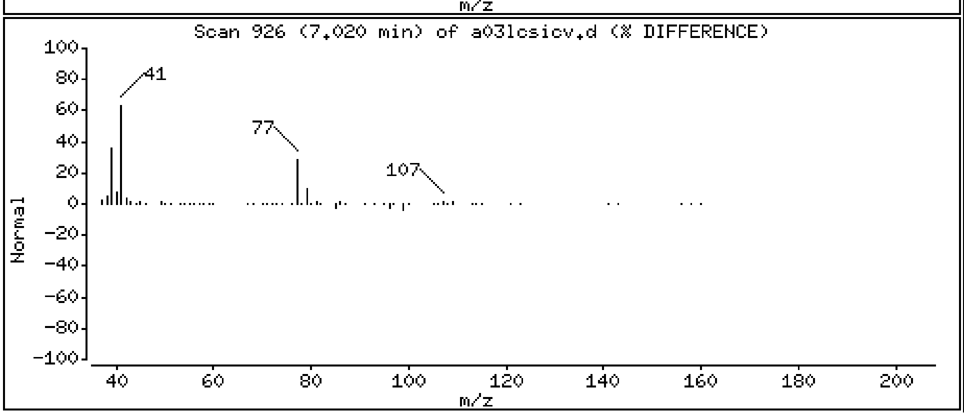
Column phase: DB-624 Column diameter: 0.18

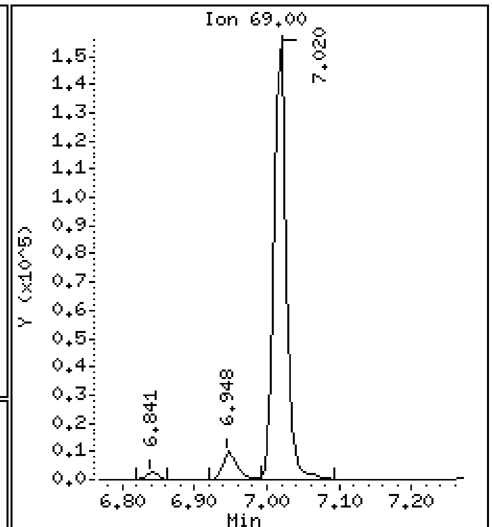
61 Ethyl Methacrylate Concentration: 39.2 ppb Review Code:

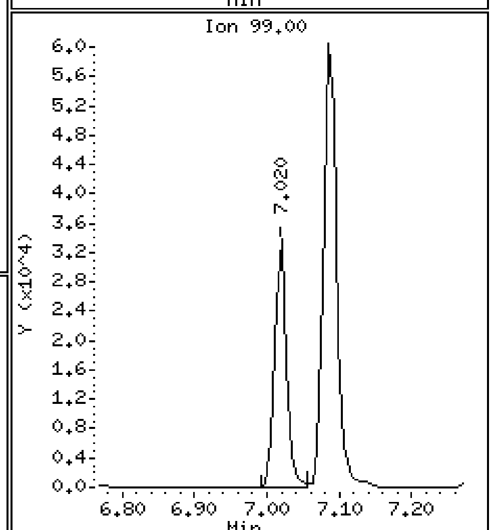


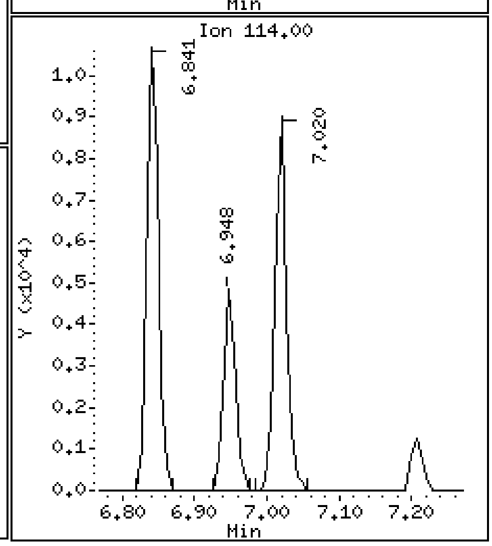












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

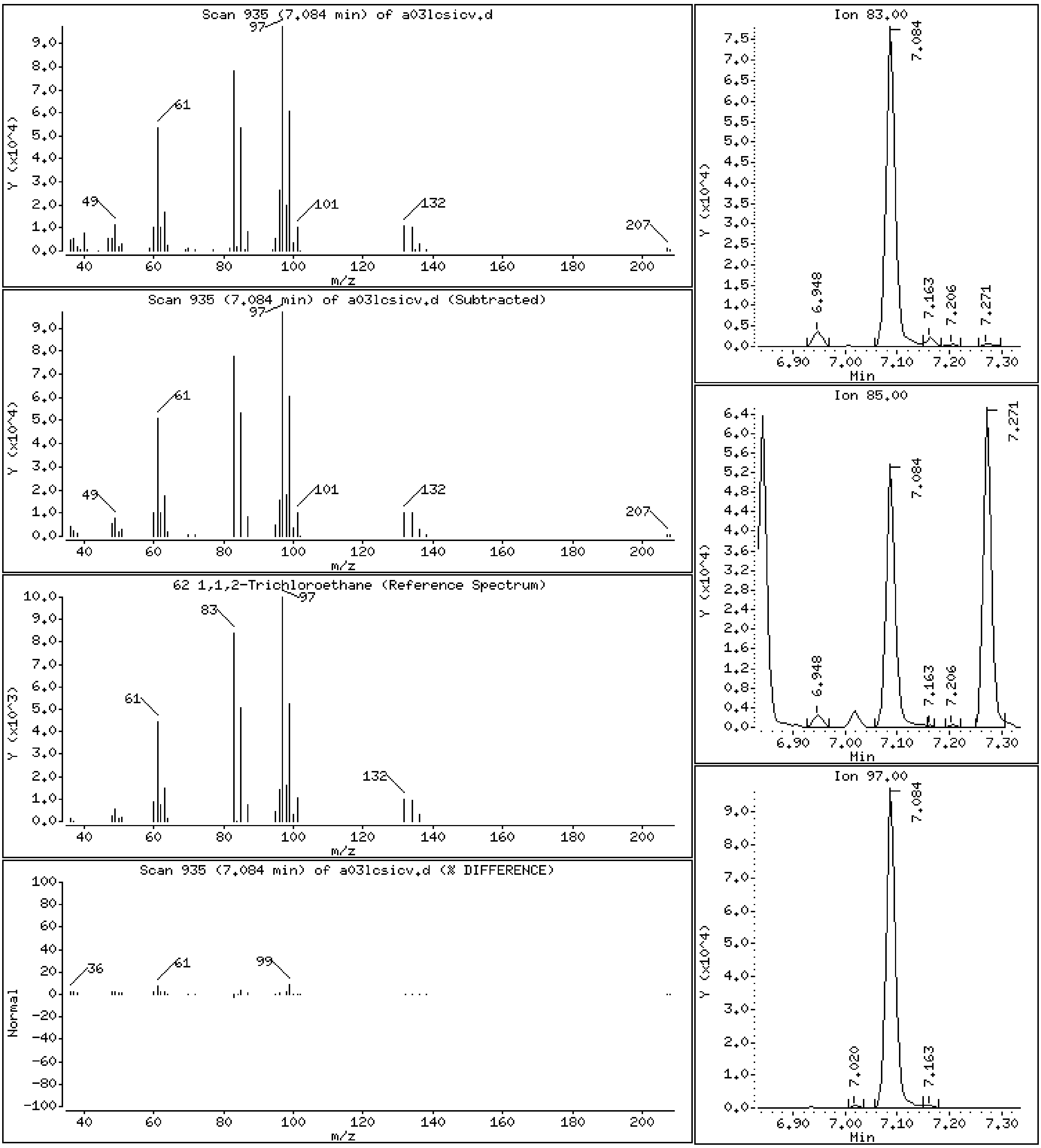
Column phase: DB-624

Column diameter: 0.18

62 1,1,2-Trichloroethane

Concentration: 41.0 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

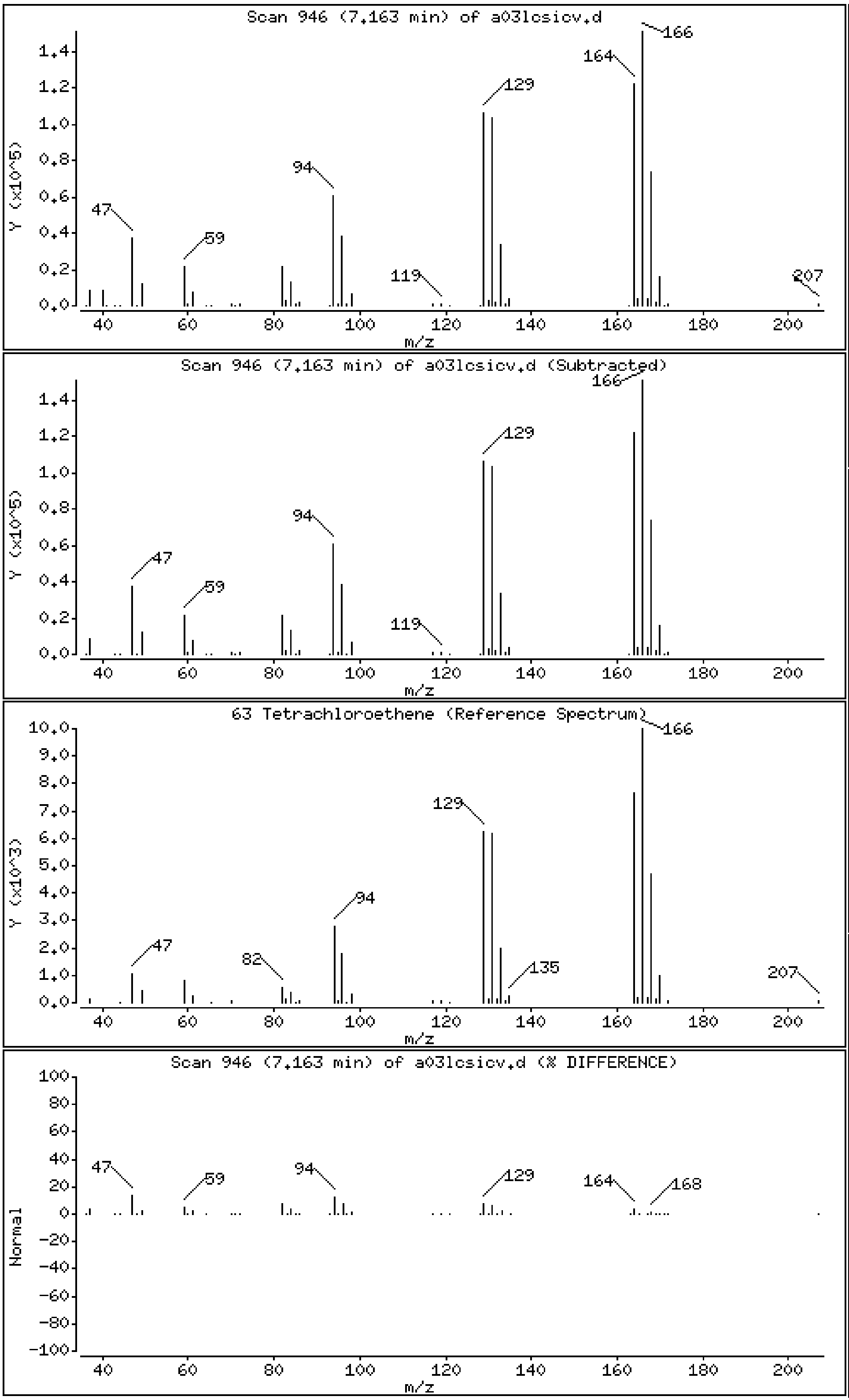
Column phase: DB-624

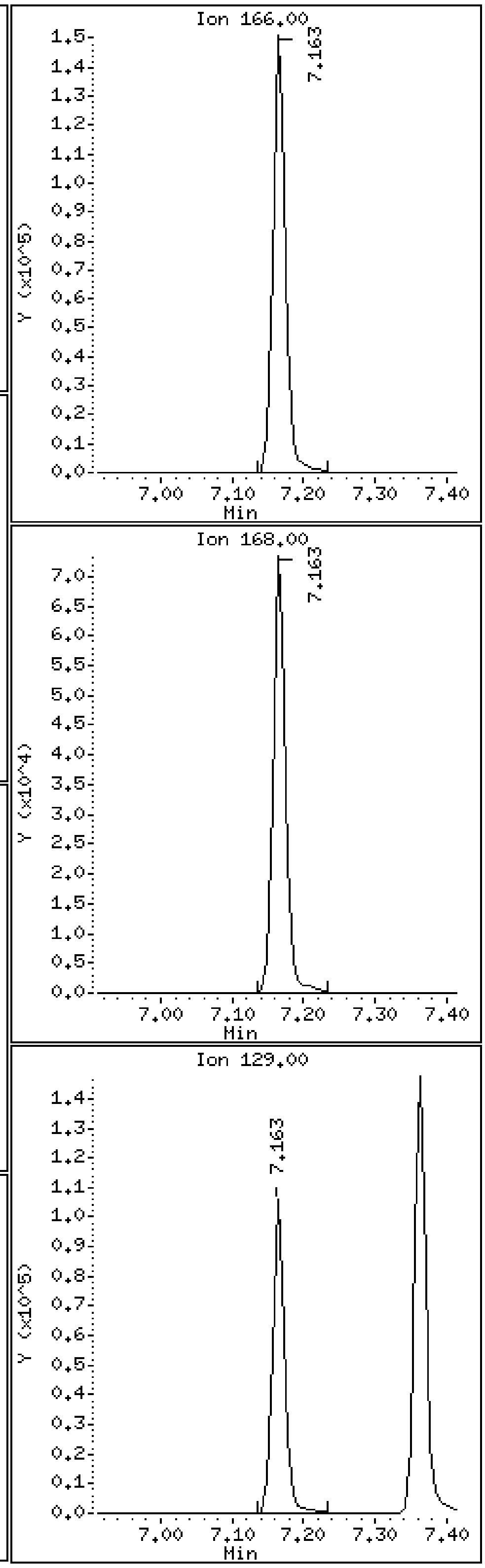
Column diameter: 0.18

63 Tetrachloroethene

Concentration: 50.4 ppb

Review Code:





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Date : 23-JAN-2023 11:36

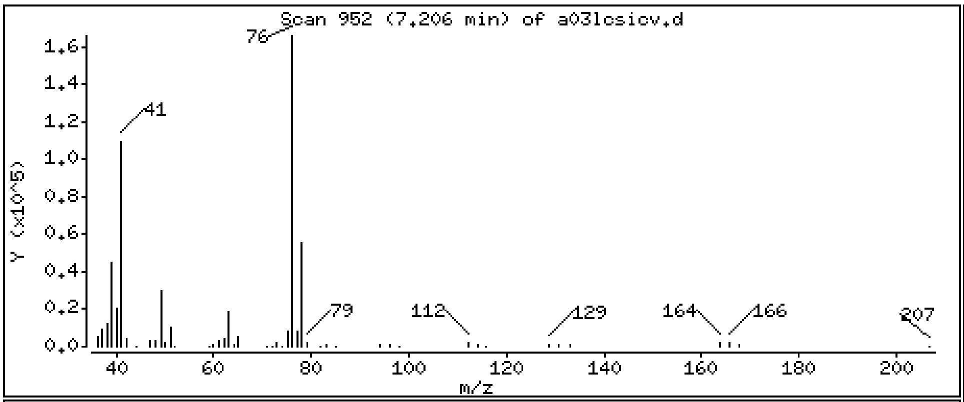
Client ID: Instrument: 50mvda.i

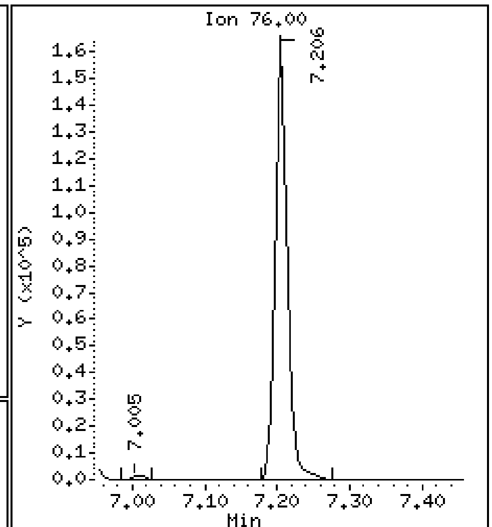
Sample Info: 8260-ICV

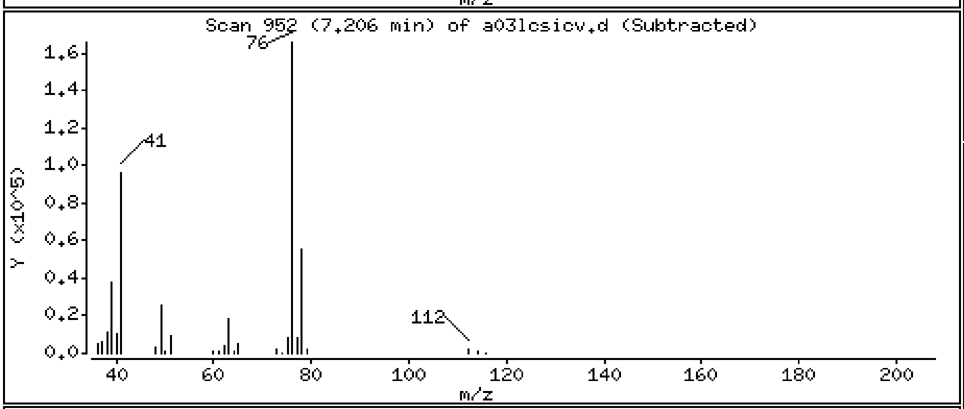
Purge Volume: 5.0 Operator: tkg

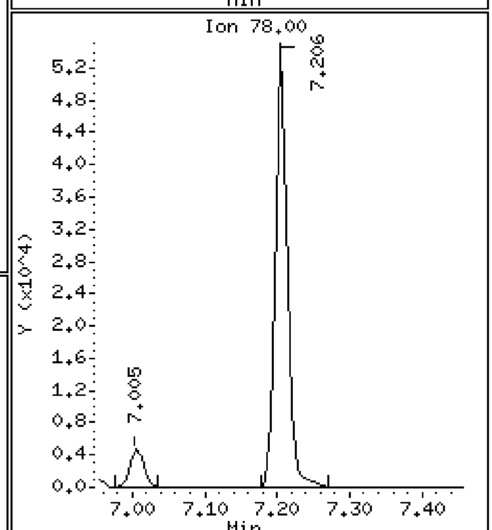
Column phase: DB-624 Column diameter: 0.18

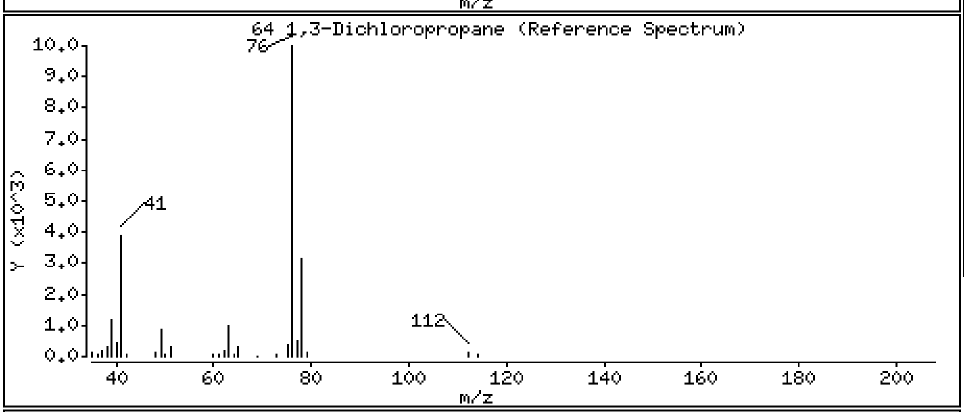
64 1,3-Dichloropropane Concentration: 40.8 ppb Review Code:

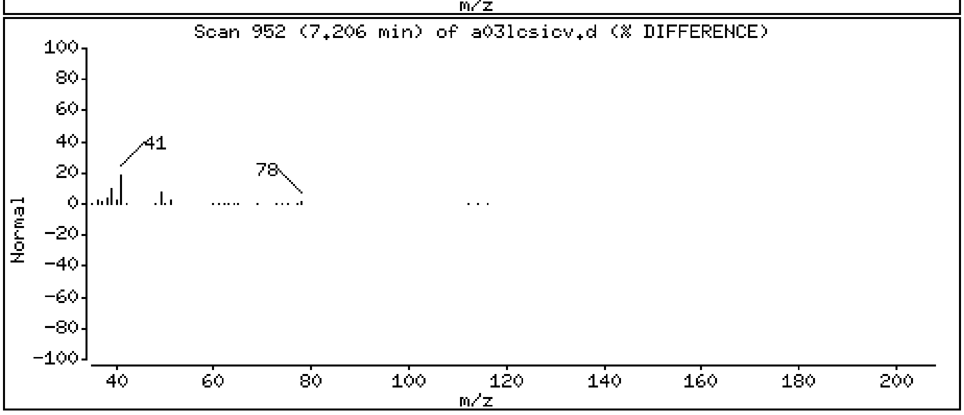












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Date : 23-JAN-2023 11:36

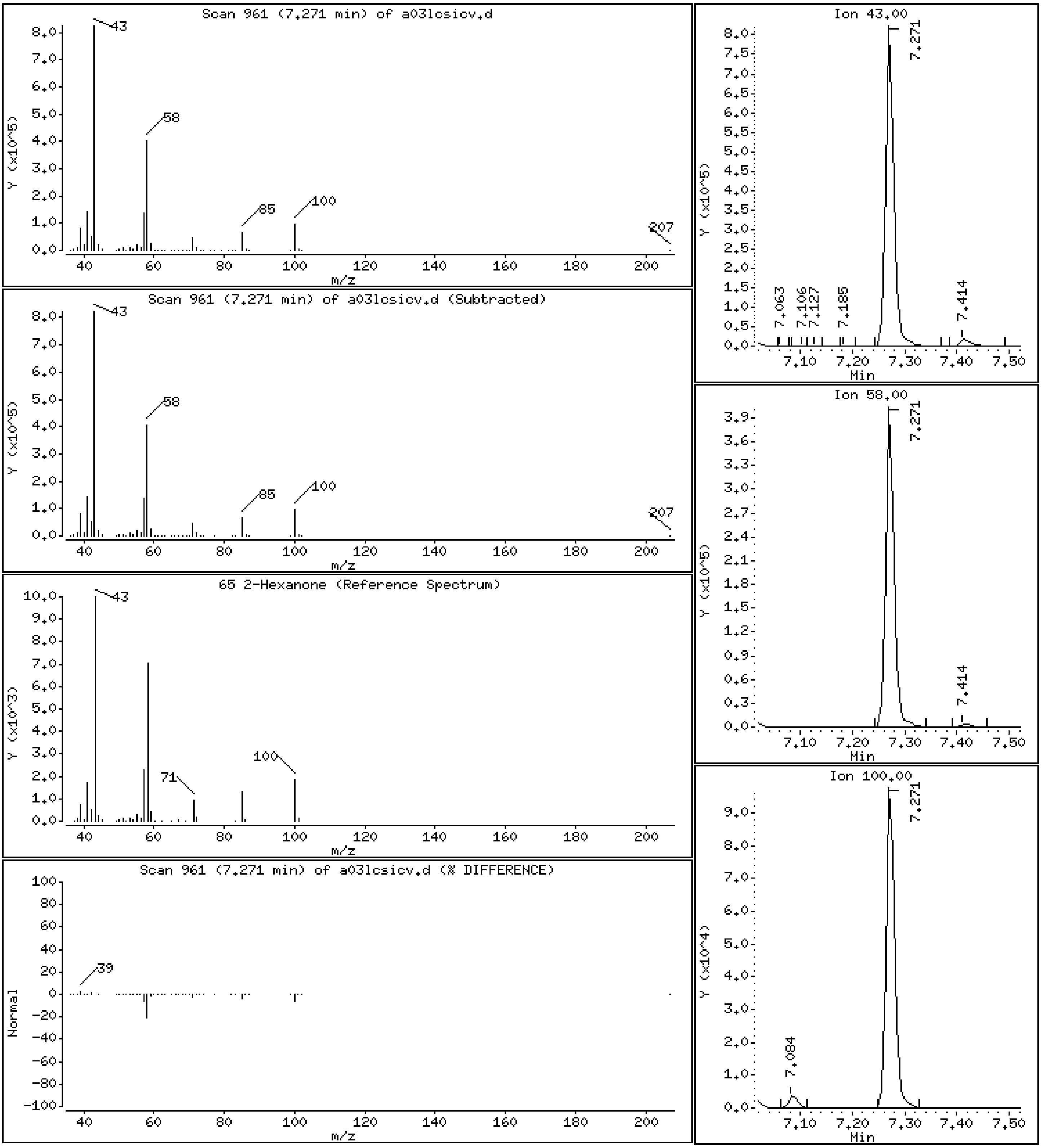
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

65 2-Hexanone Concentration: 196 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

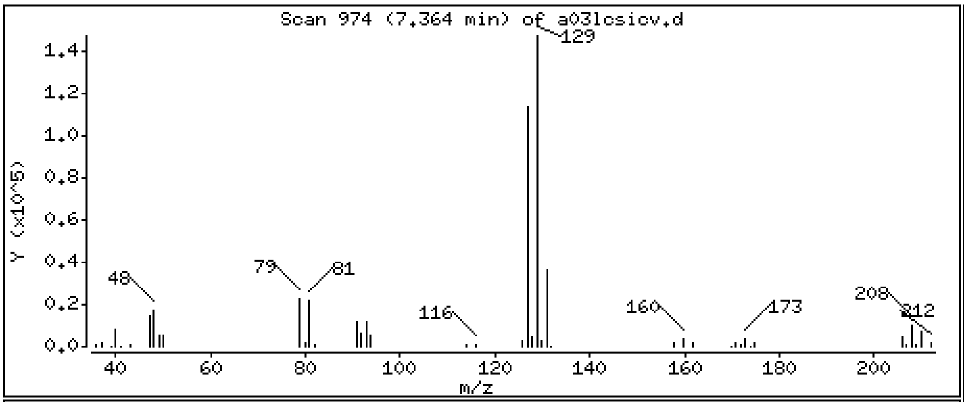
Column phase: DB-624

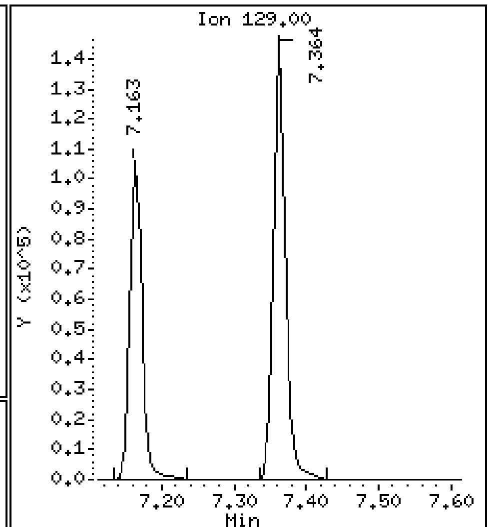
Column diameter: 0.18

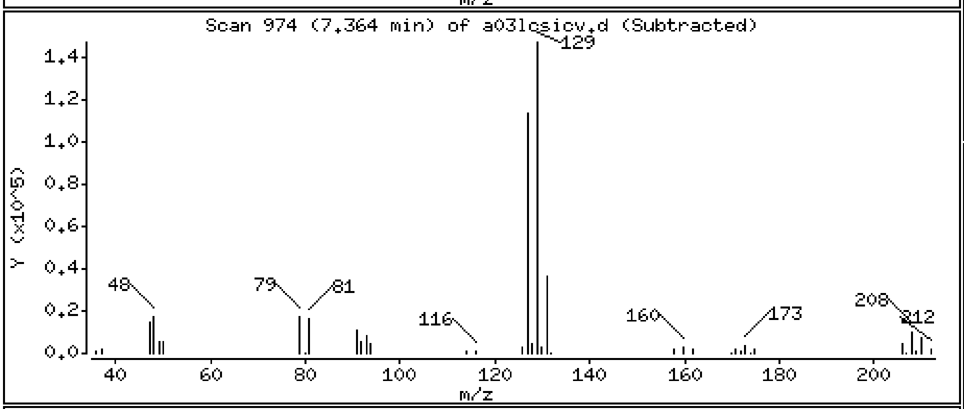
66 Dibromochloromethane

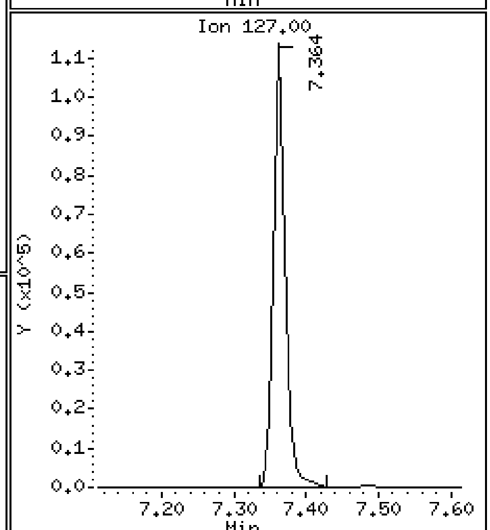
Concentration: 49.6 ppb

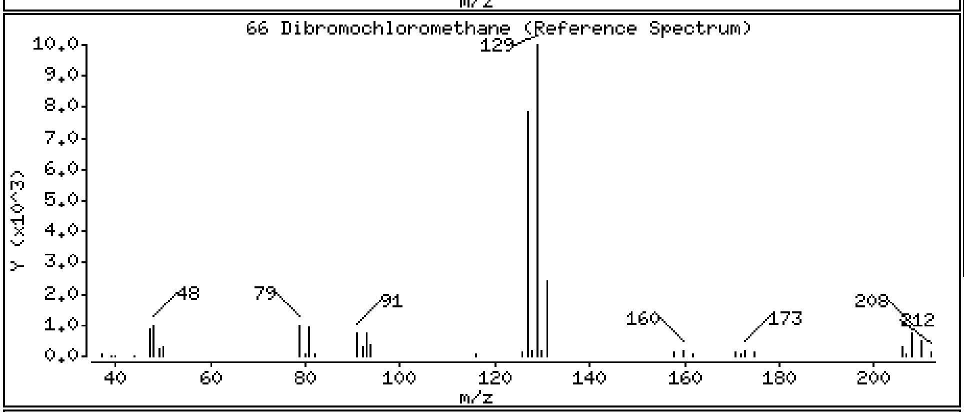
Review Code:

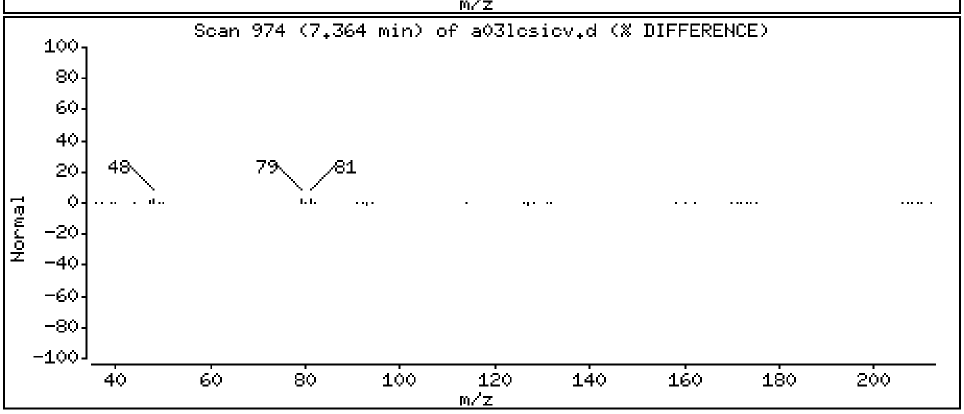












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Date : 23-JAN-2023 11:36

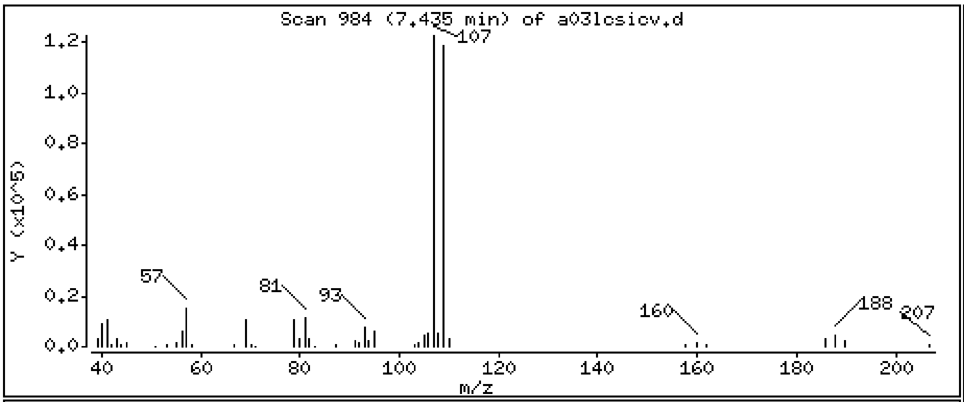
Client ID: Instrument: 50mvda.i

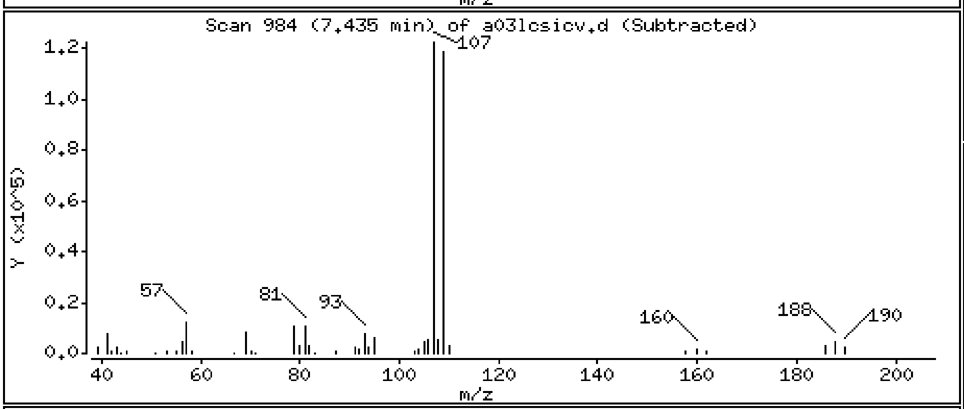
Sample Info: 8260-ICV

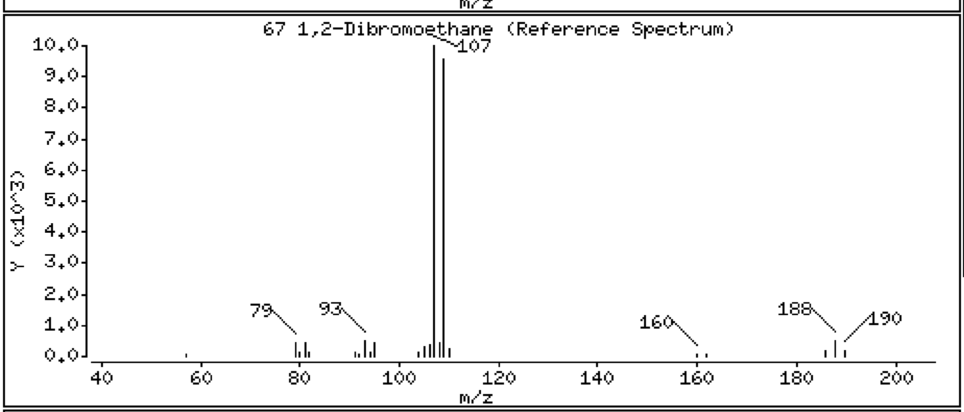
Purge Volume: 5.0 Operator: tkg

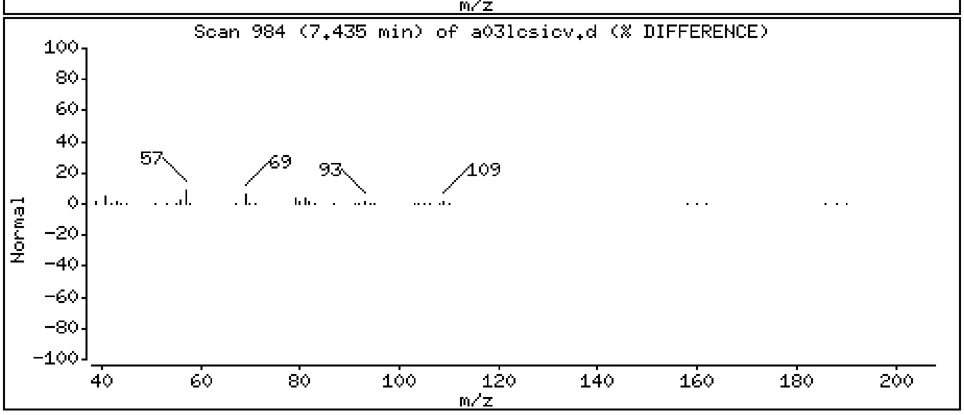
Column phase: DB-624 Column diameter: 0.18

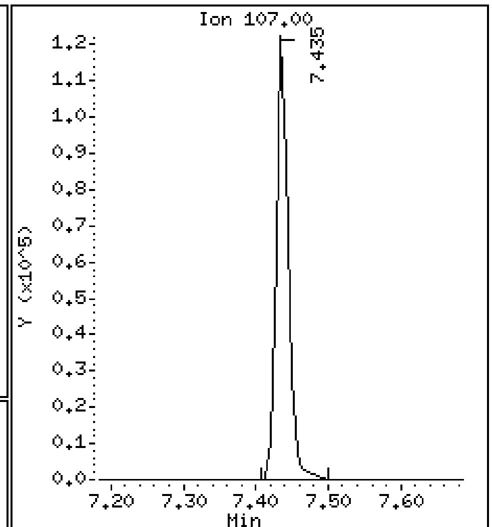
67 1,2-Dibromoethane Concentration: 44.9 ppb Review Code:

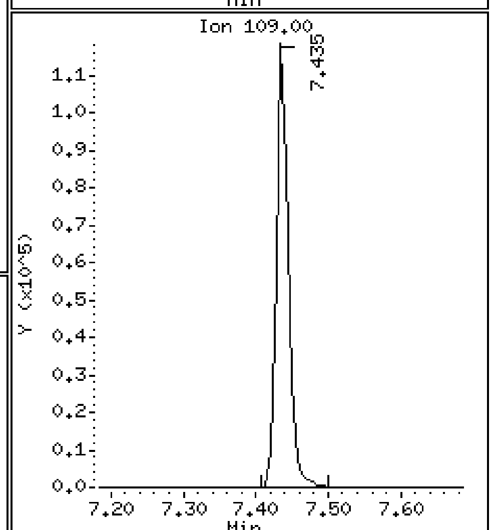












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

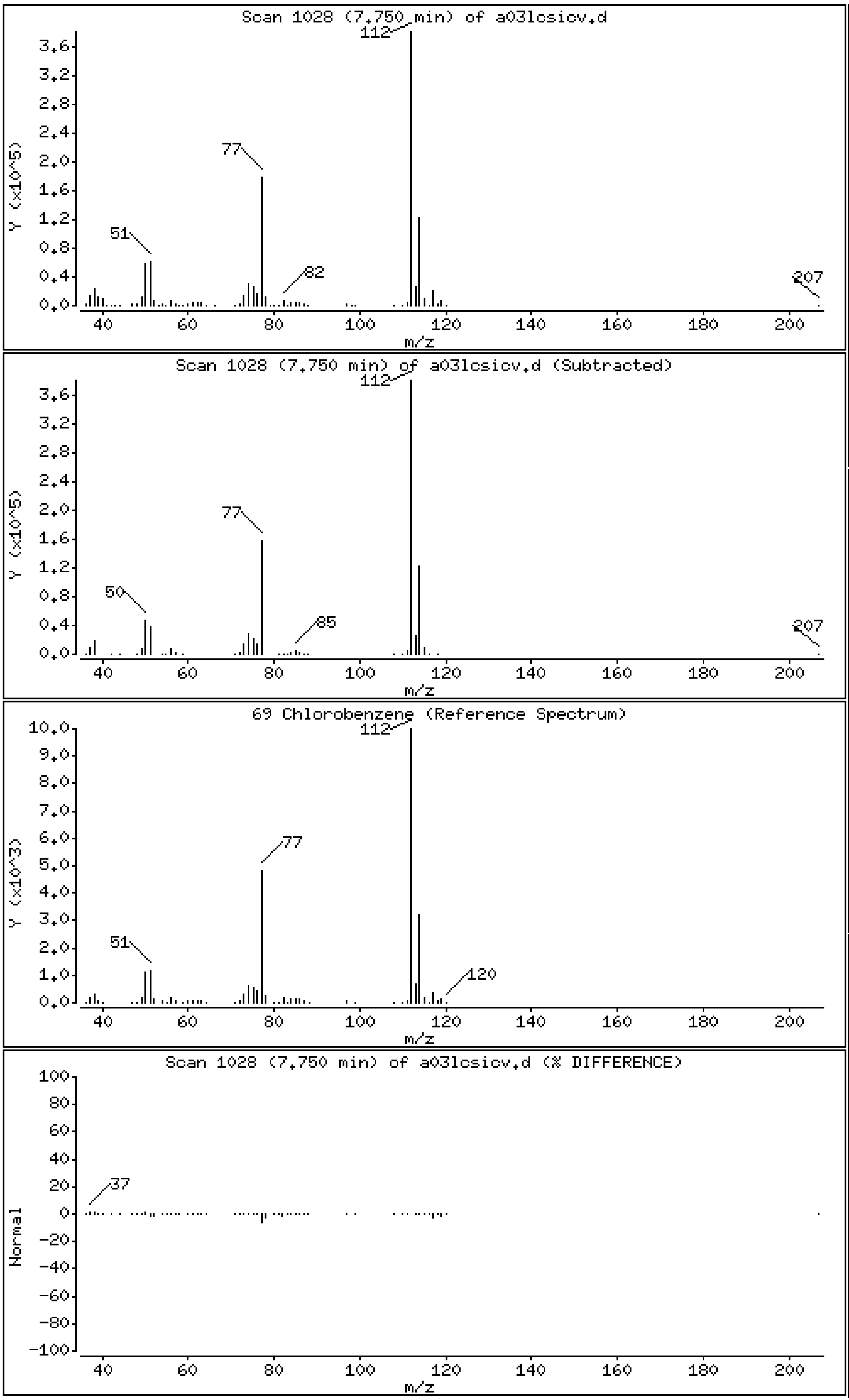
Column phase: DB-624

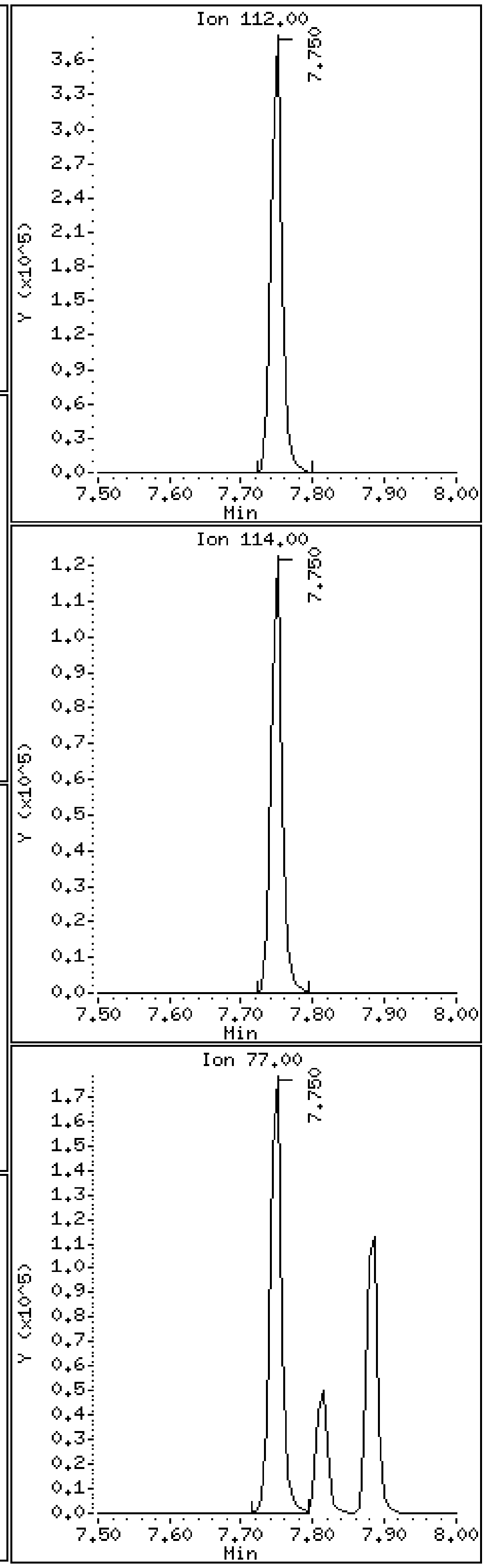
Column diameter: 0.18

69 Chlorobenzene

Concentration: 44.9 ppb

Review Code:





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Date : 23-JAN-2023 11:36

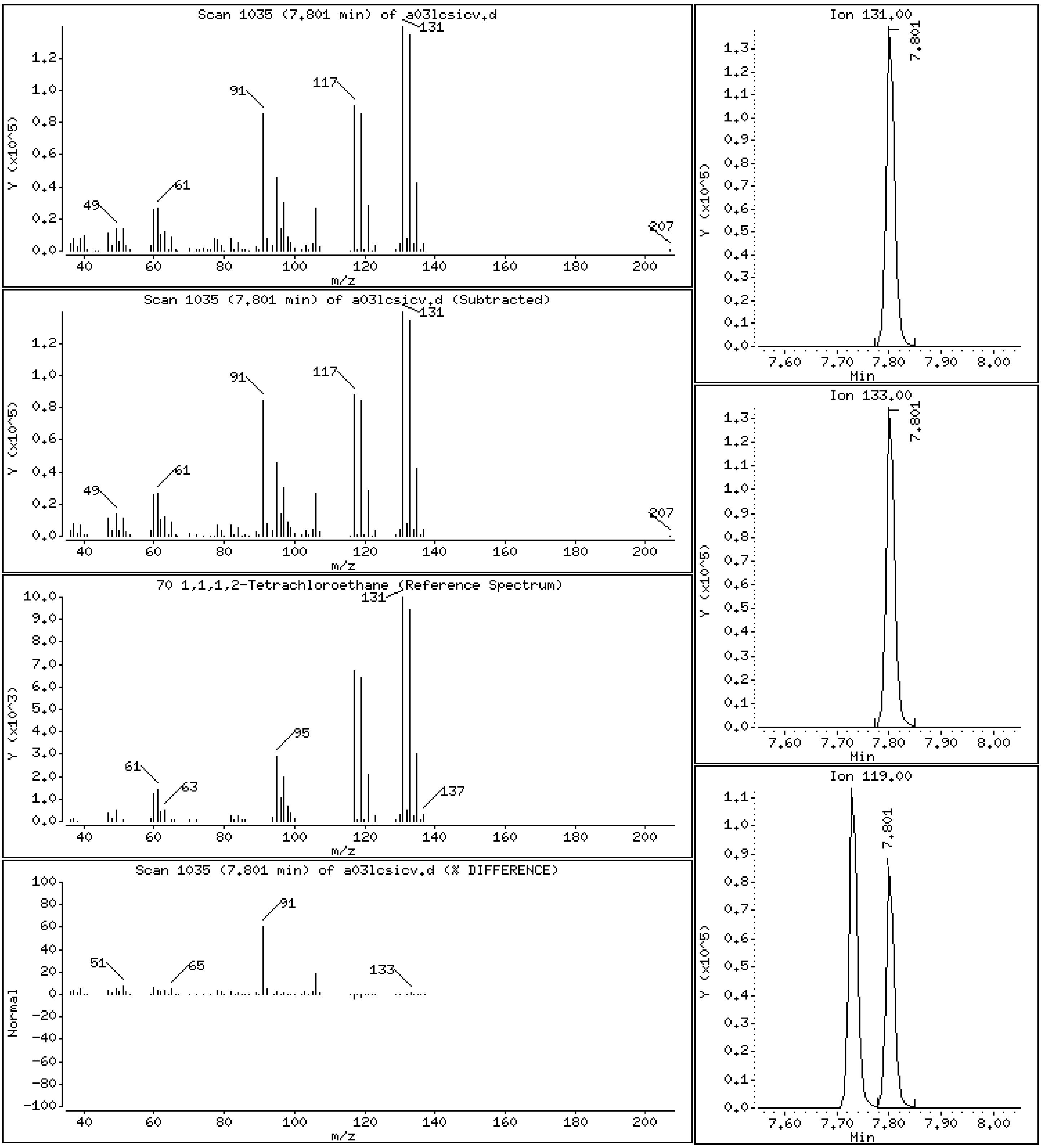
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane Concentration: 48.2 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

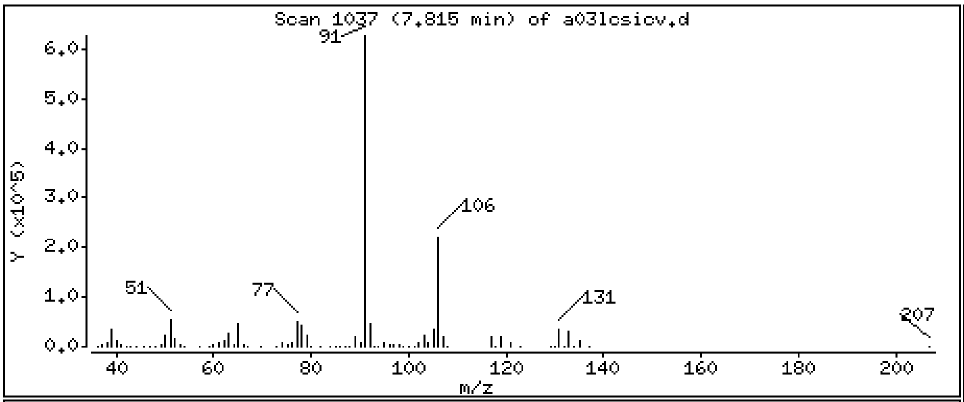
Column phase: DB-624

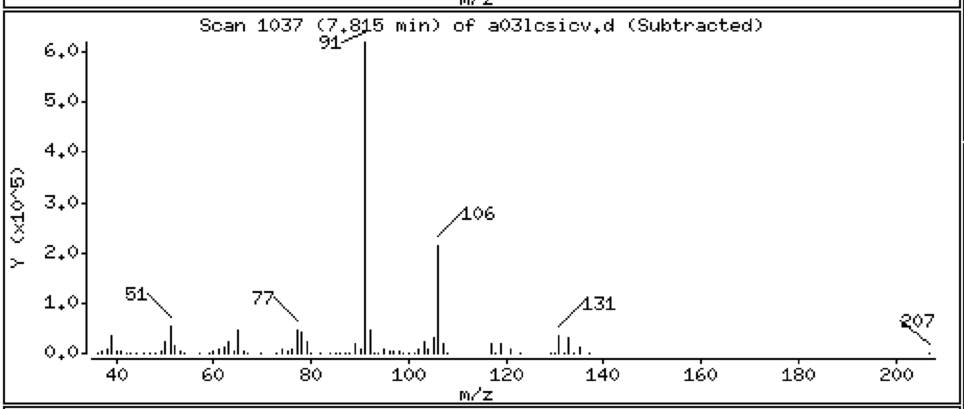
Column diameter: 0.18

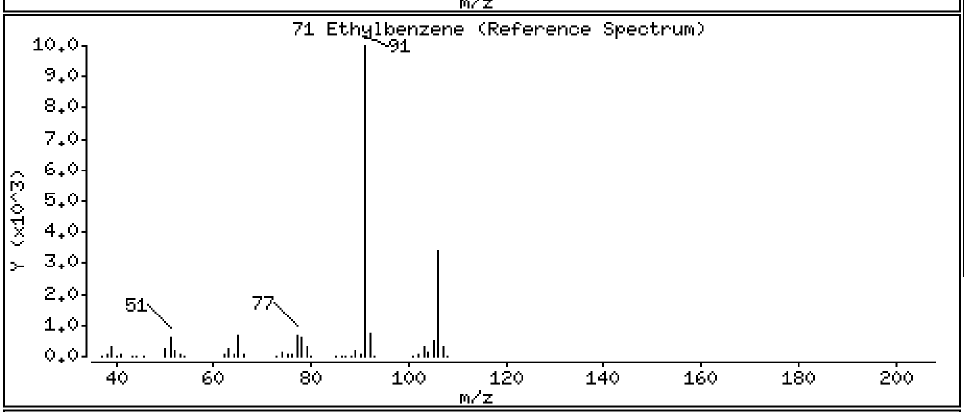
71 Ethylbenzene

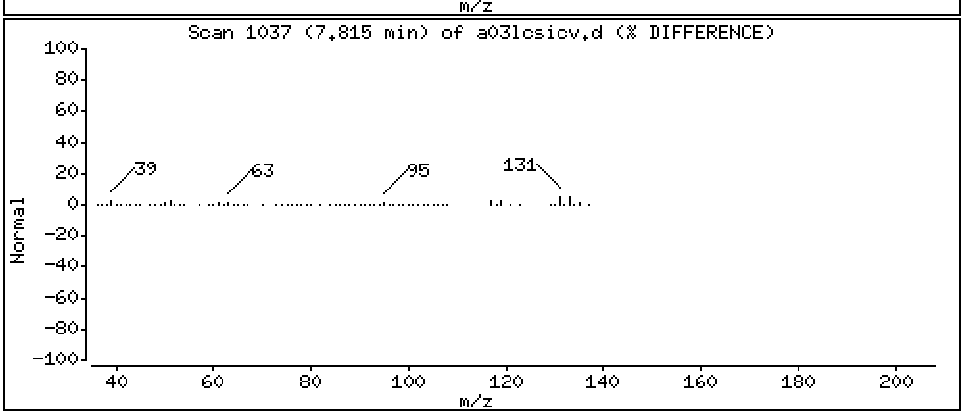
Concentration: 44.3 ppb

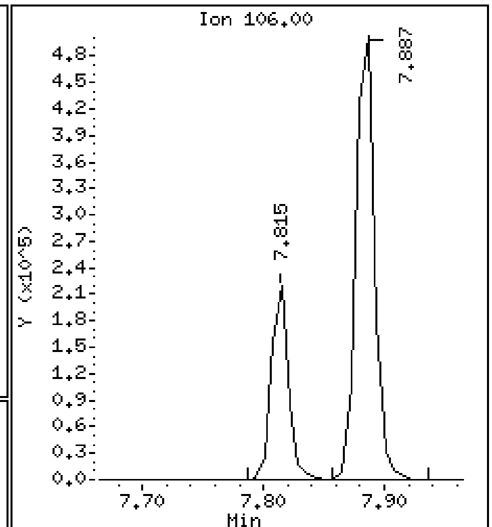
Review Code:

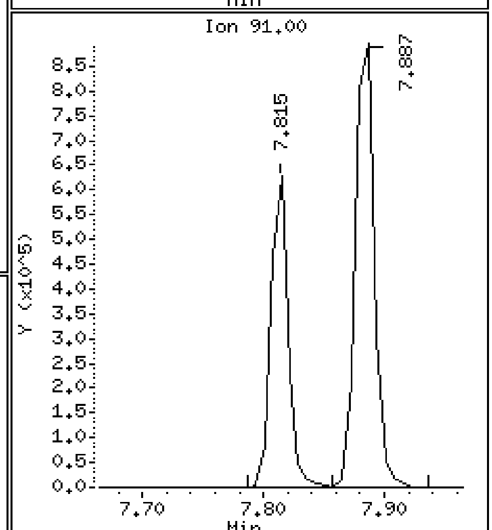












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

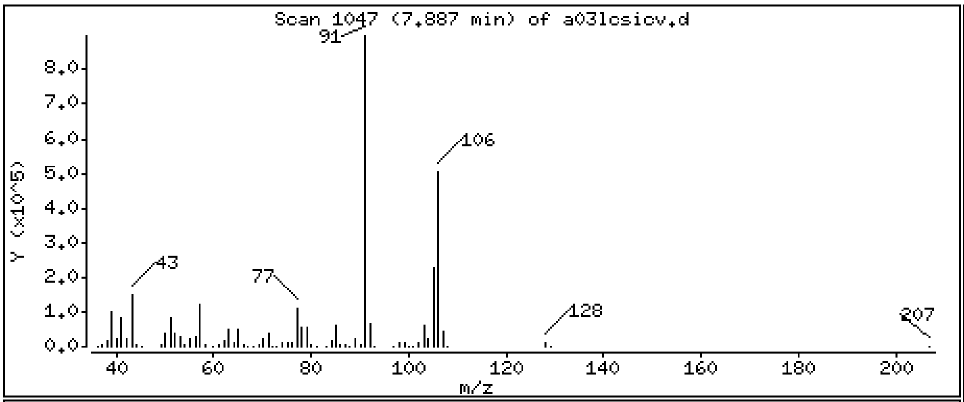
Column phase: DB-624

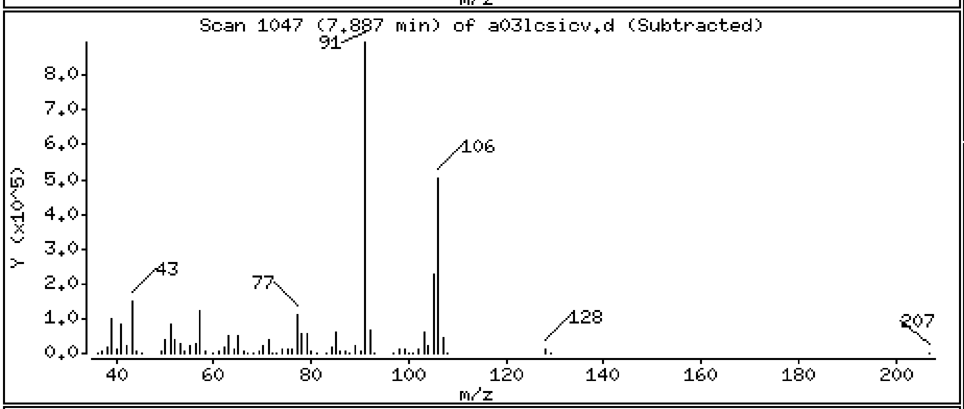
Column diameter: 0.18

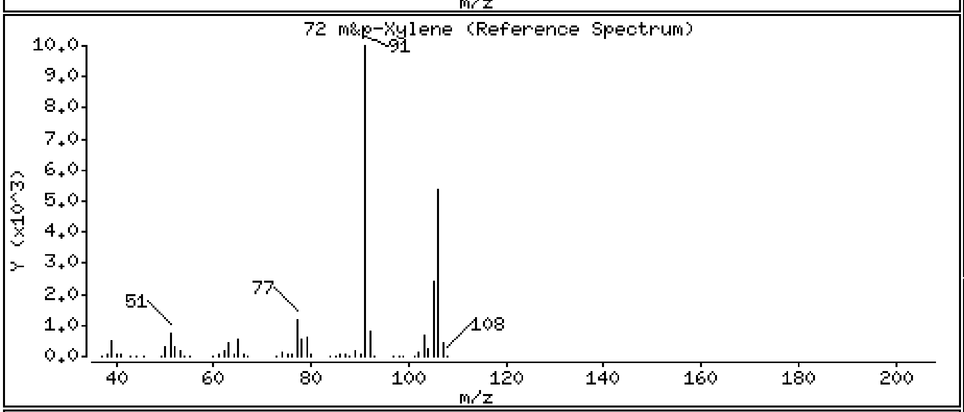
72 m&p-Xylene

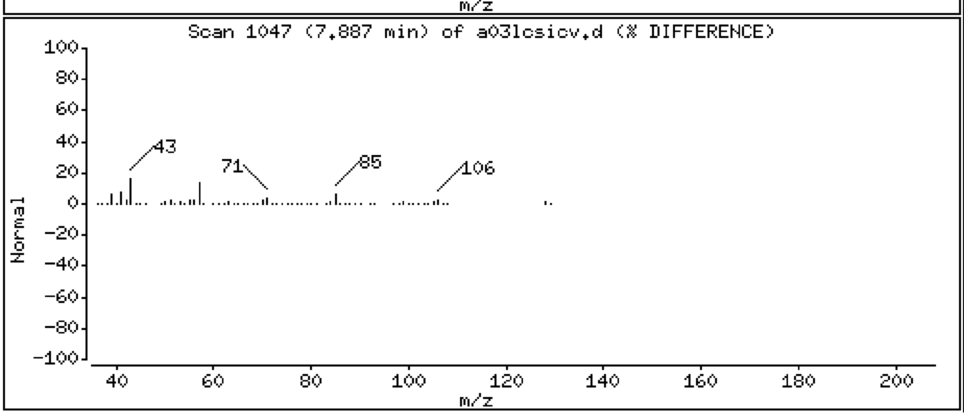
Concentration: 88.9 ppb

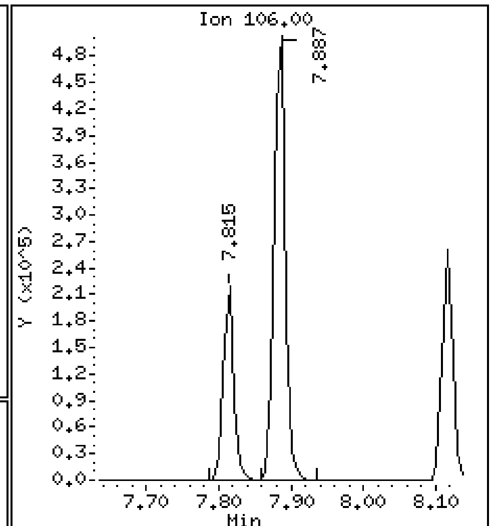
Review Code:

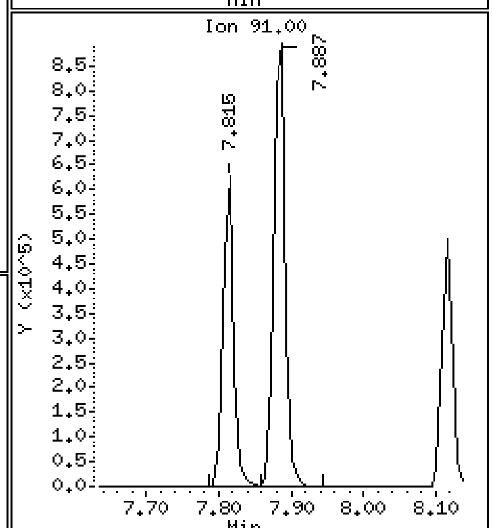


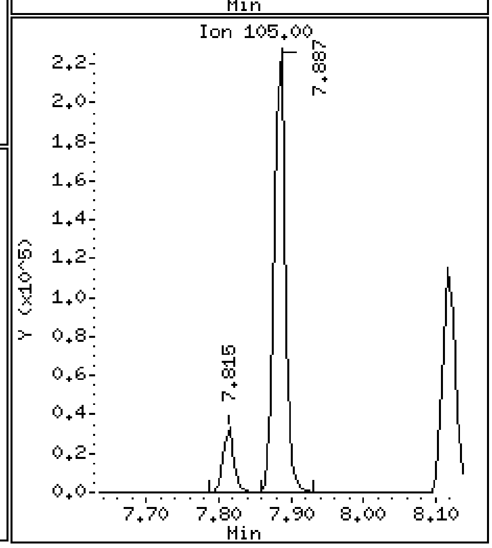












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Date : 23-JAN-2023 11:36

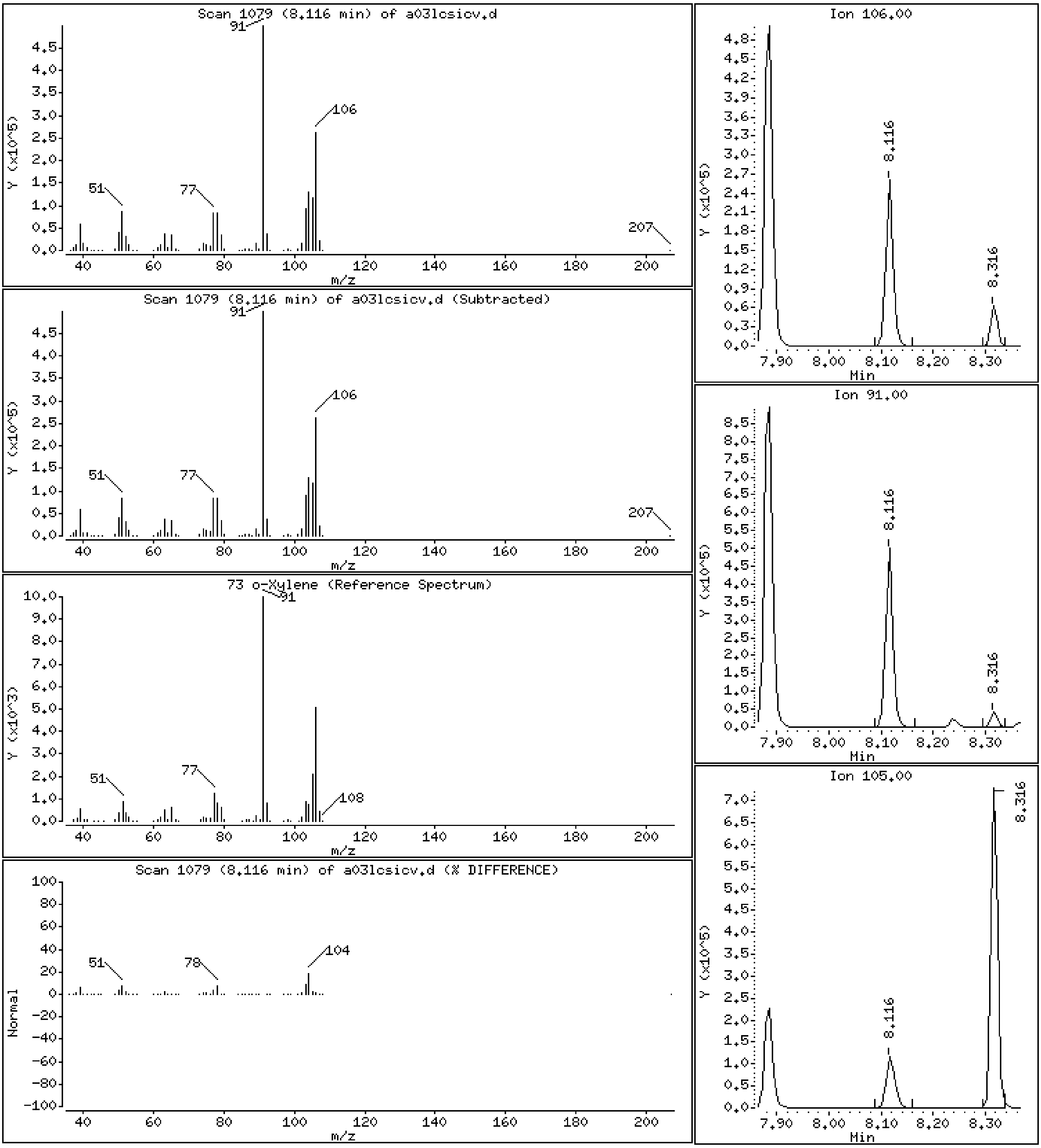
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

73 o-Xylene Concentration: 43.9 ppb Review Code:



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Date : 23-JAN-2023 11:36

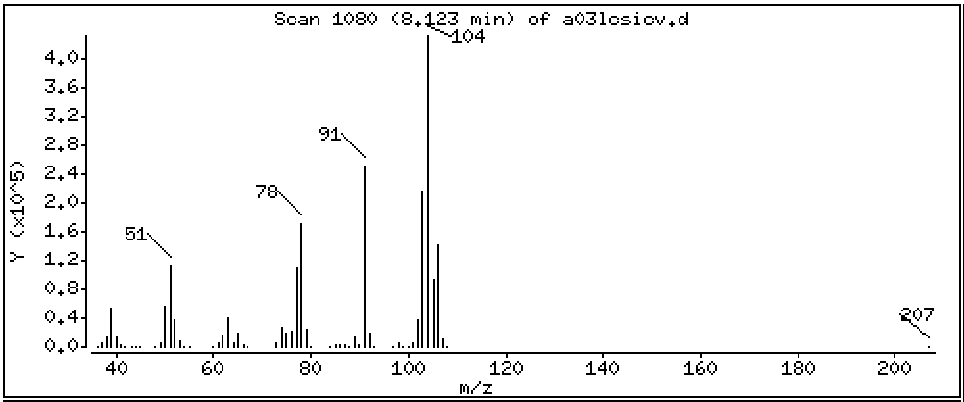
Client ID: Instrument: 50mvda.i

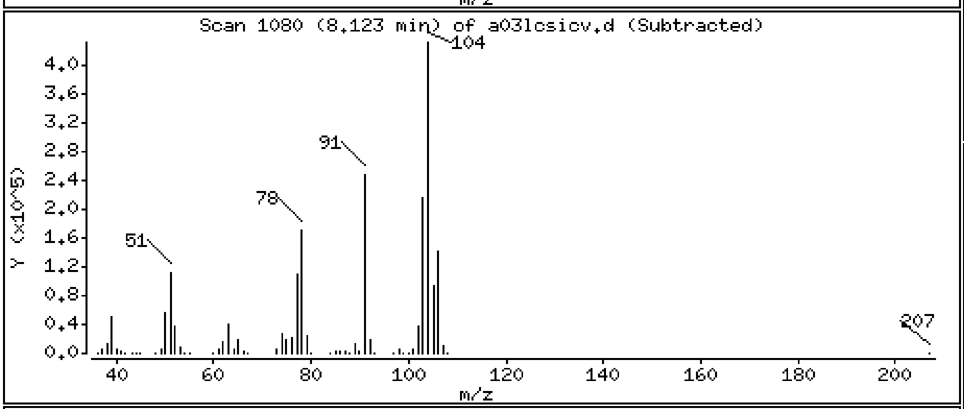
Sample Info: 8260-ICV

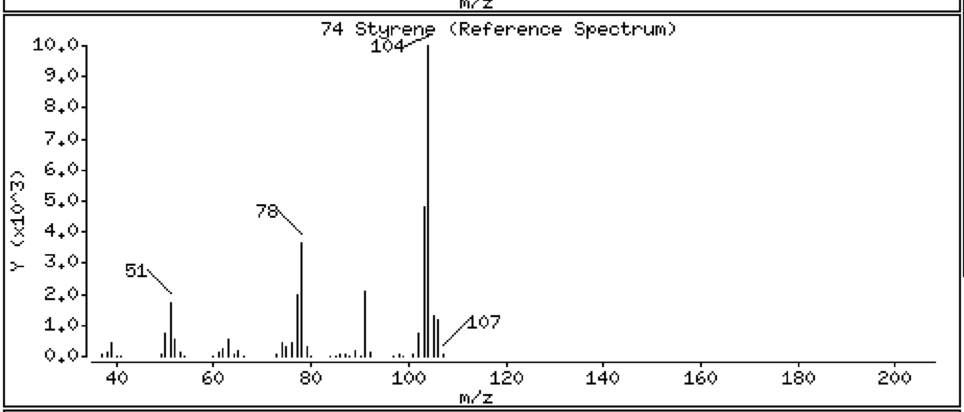
Purge Volume: 5.0 Operator: tkg

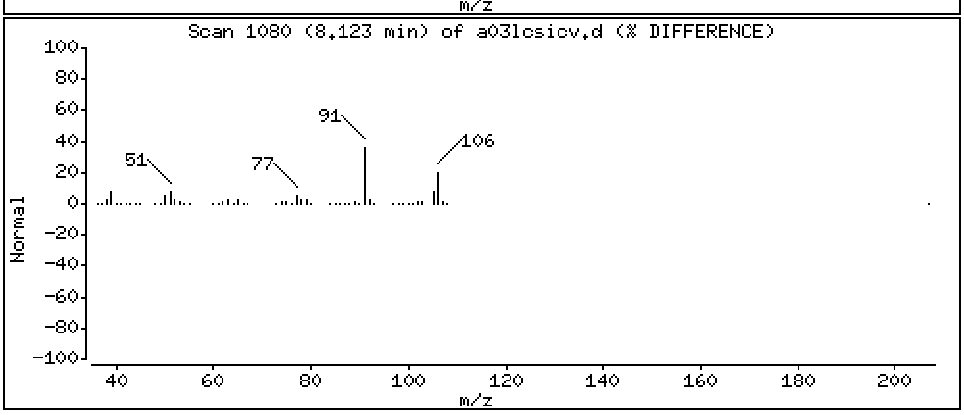
Column phase: DB-624 Column diameter: 0.18

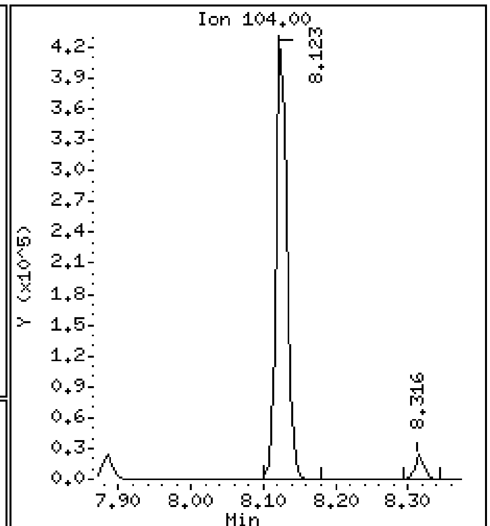
74 Styrene Concentration: 44.2 ppb Review Code:

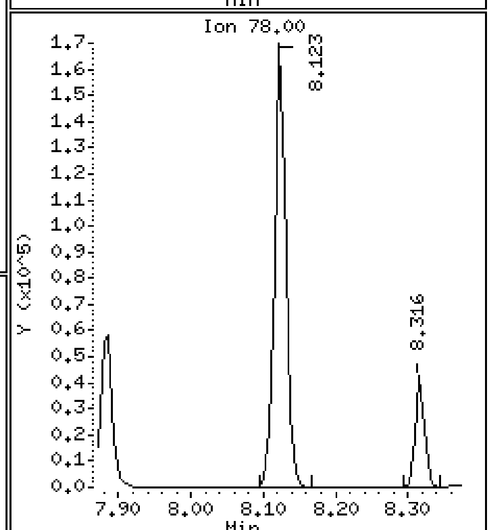












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Date : 23-JAN-2023 11:36

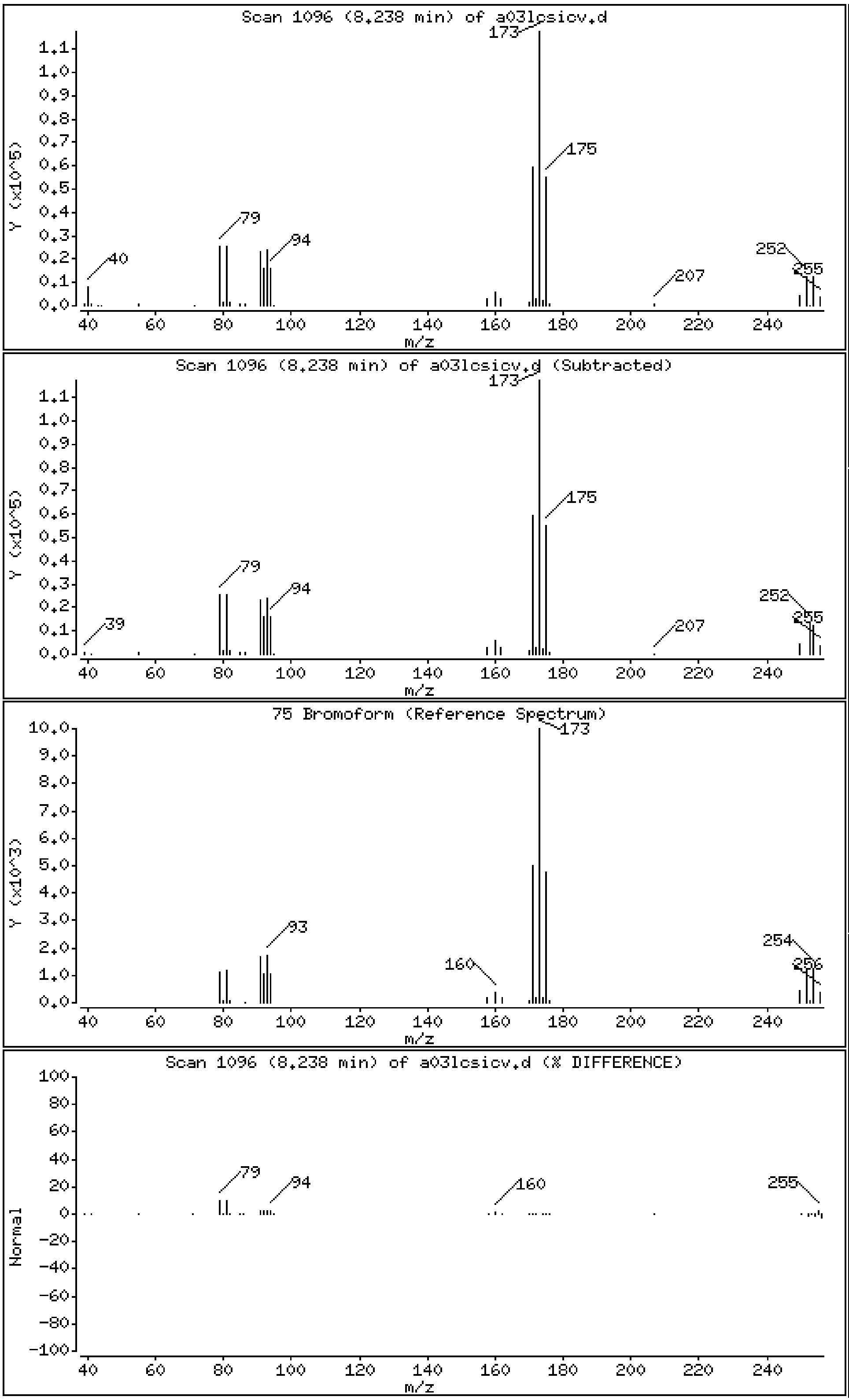
Client ID: Instrument: 50mvda.i

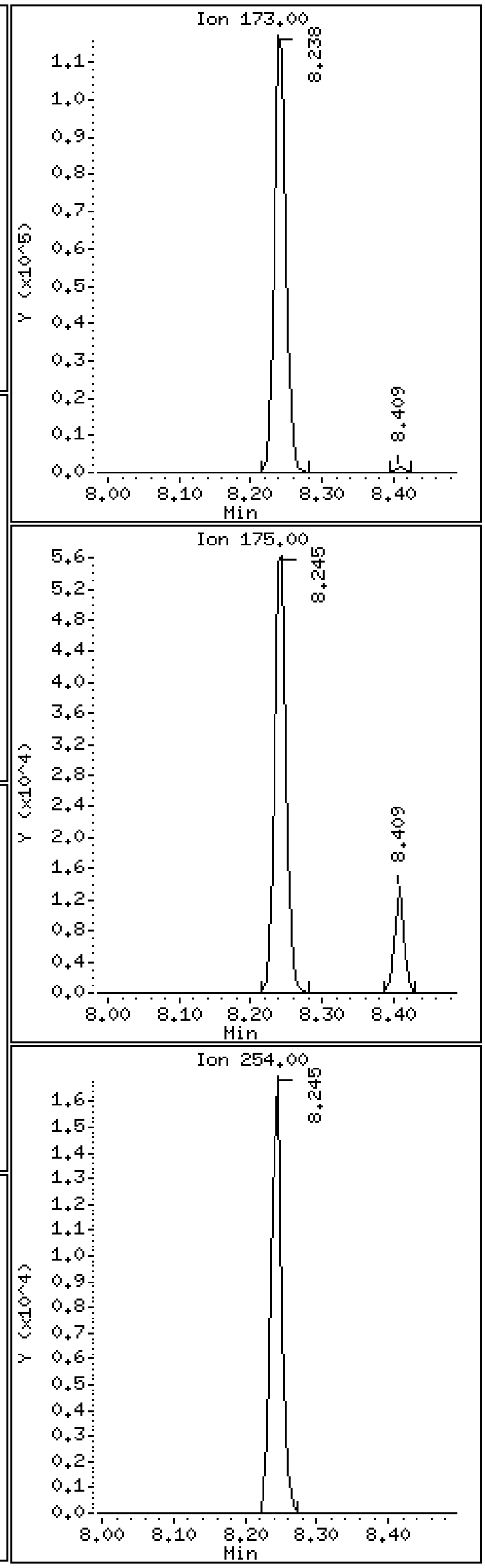
Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

75 Bromoform Concentration: 50.1 ppb Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

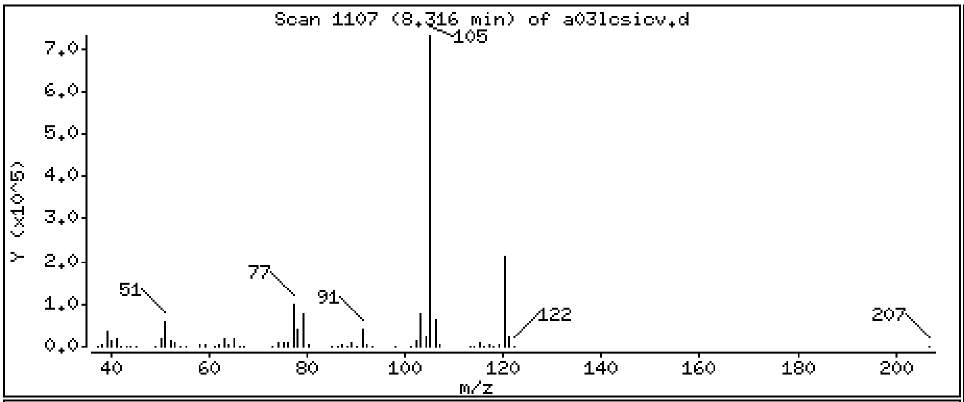
Column phase: DB-624

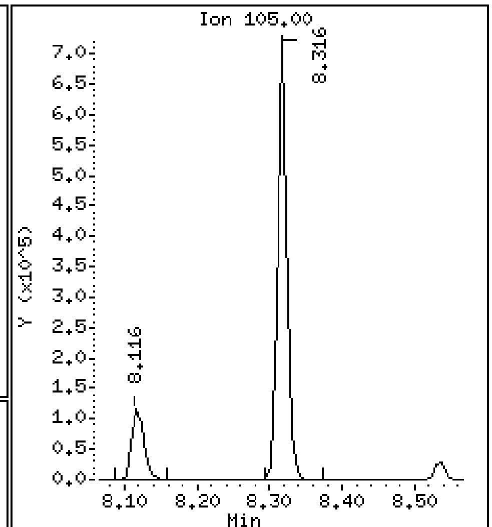
Column diameter: 0.18

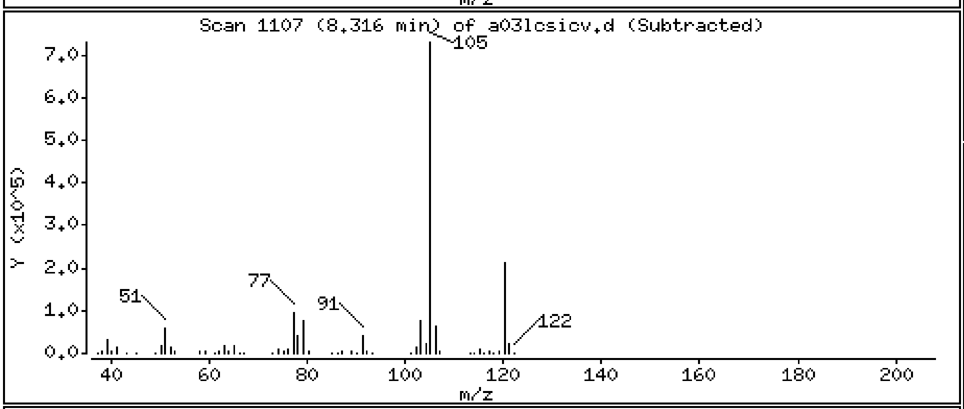
76 Isopropylbenzene

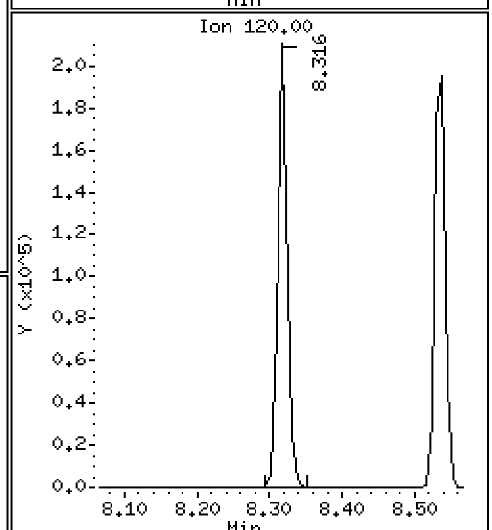
Concentration: 43.3 ppb

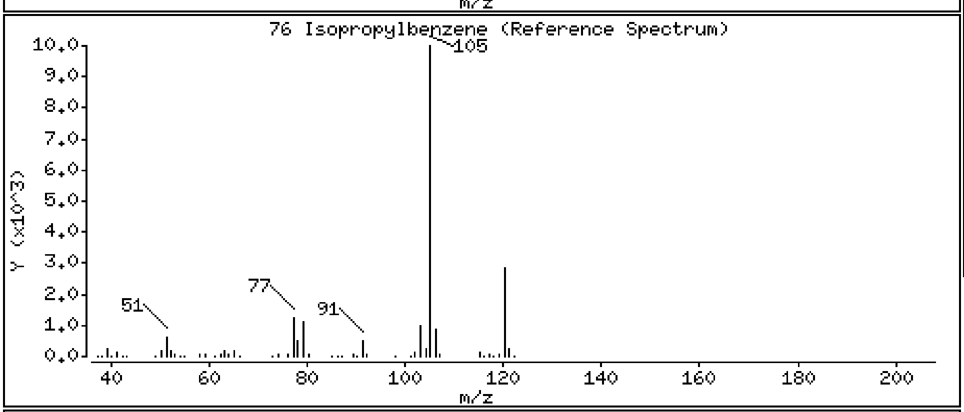
Review Code:

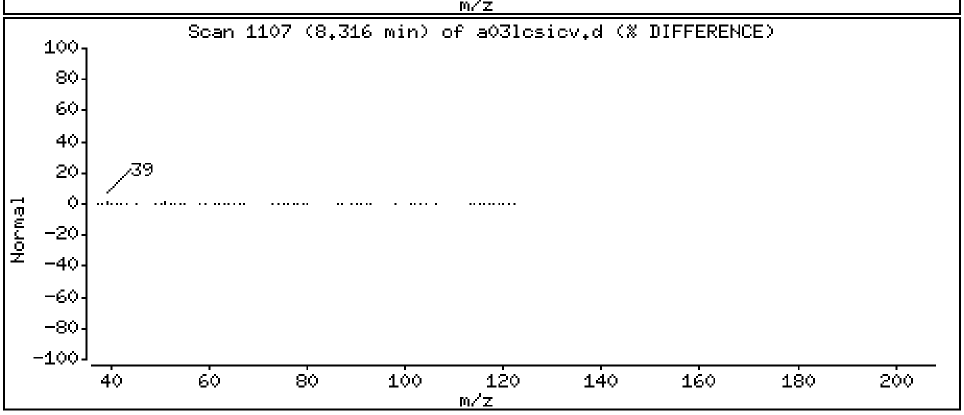












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

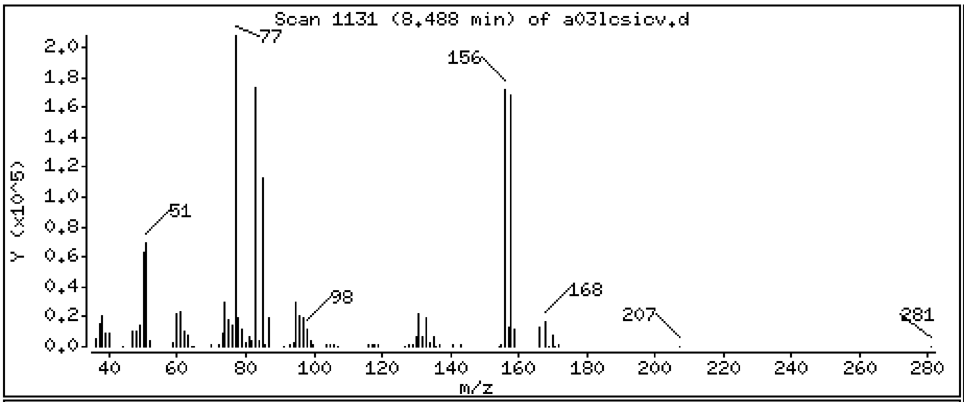
Column phase: DB-624

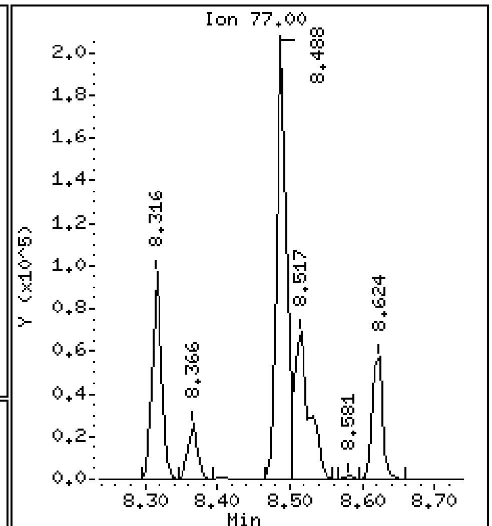
Column diameter: 0.18

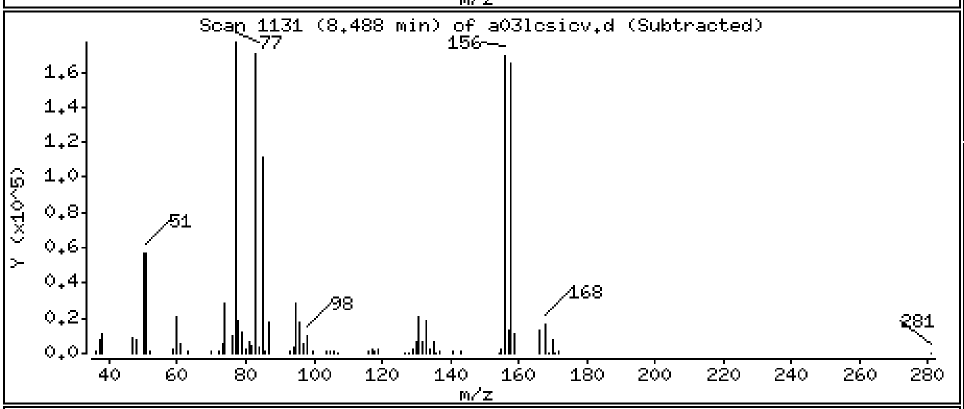
78 Bromobenzene

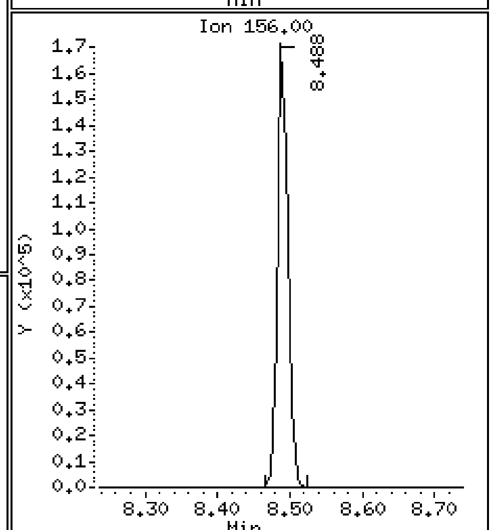
Concentration: 40.3 ppb

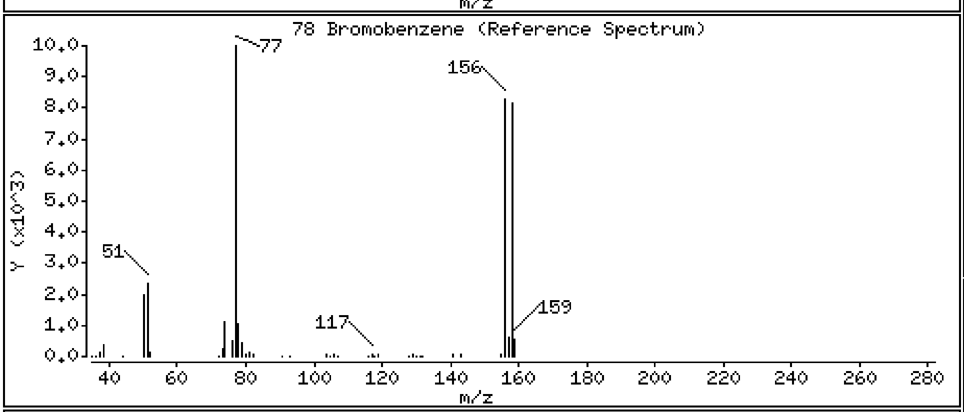
Review Code:

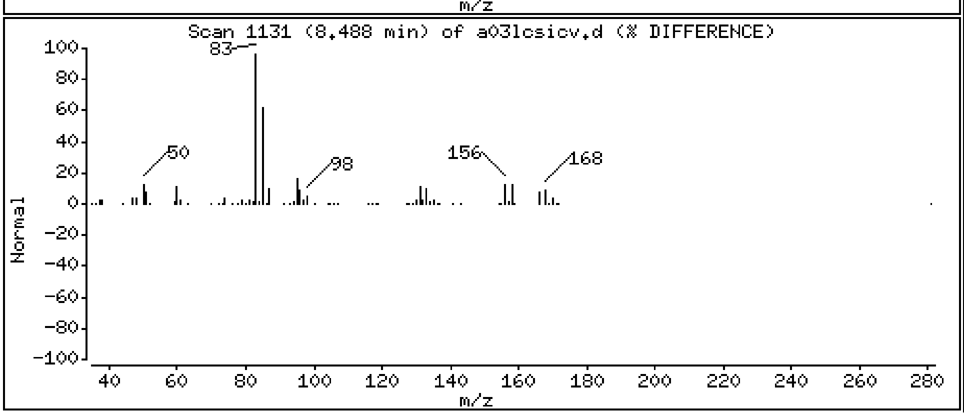


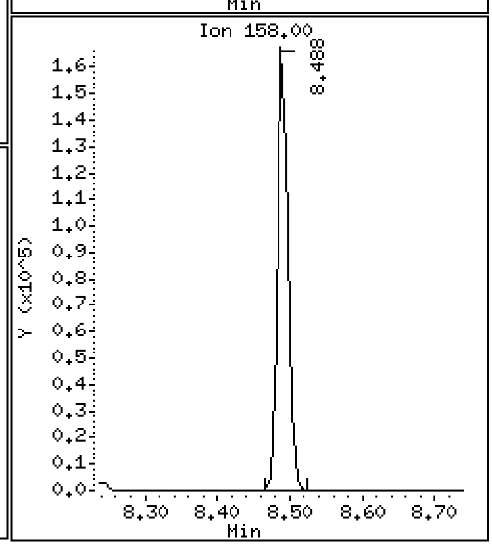












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

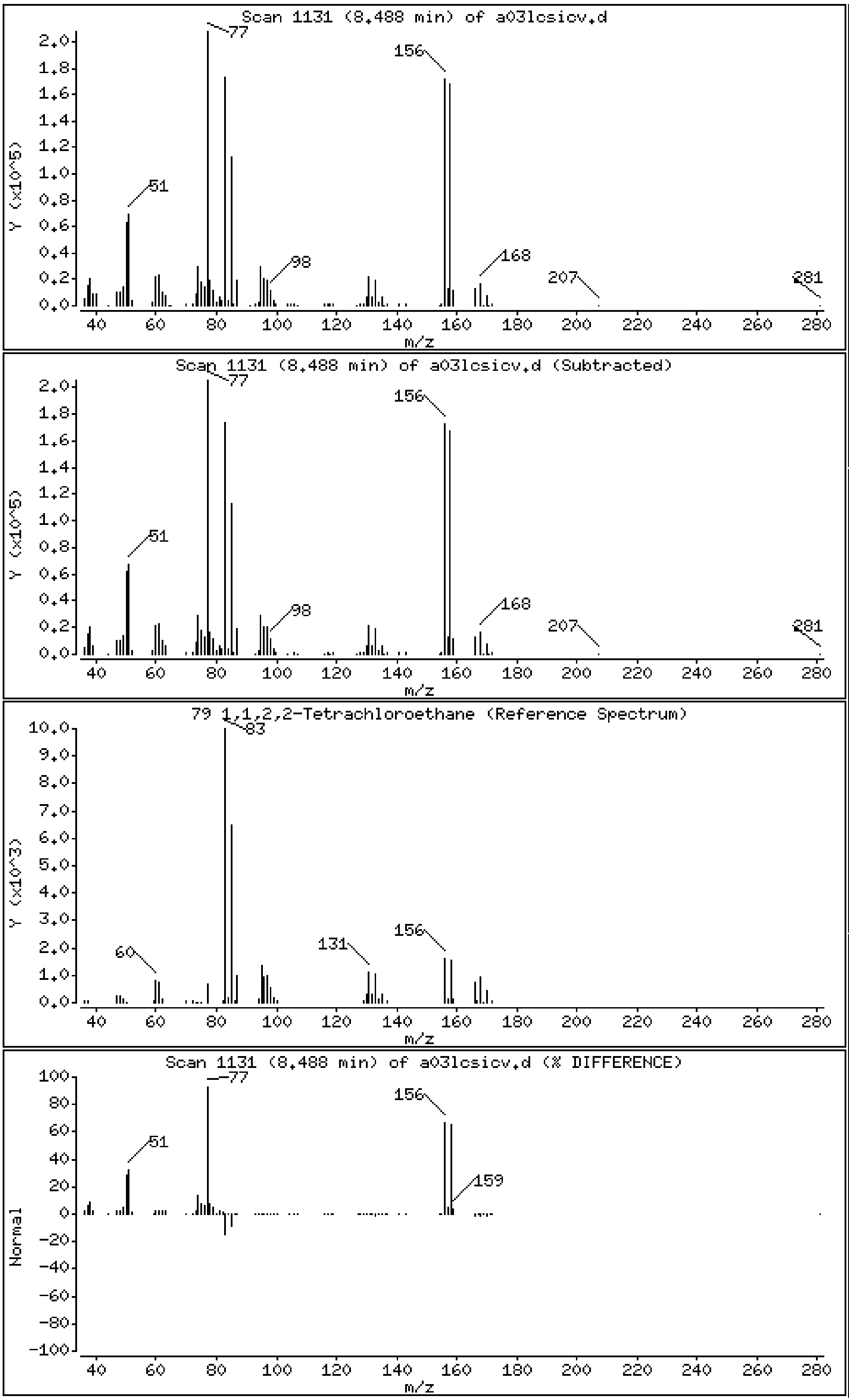
Column phase: DB-624

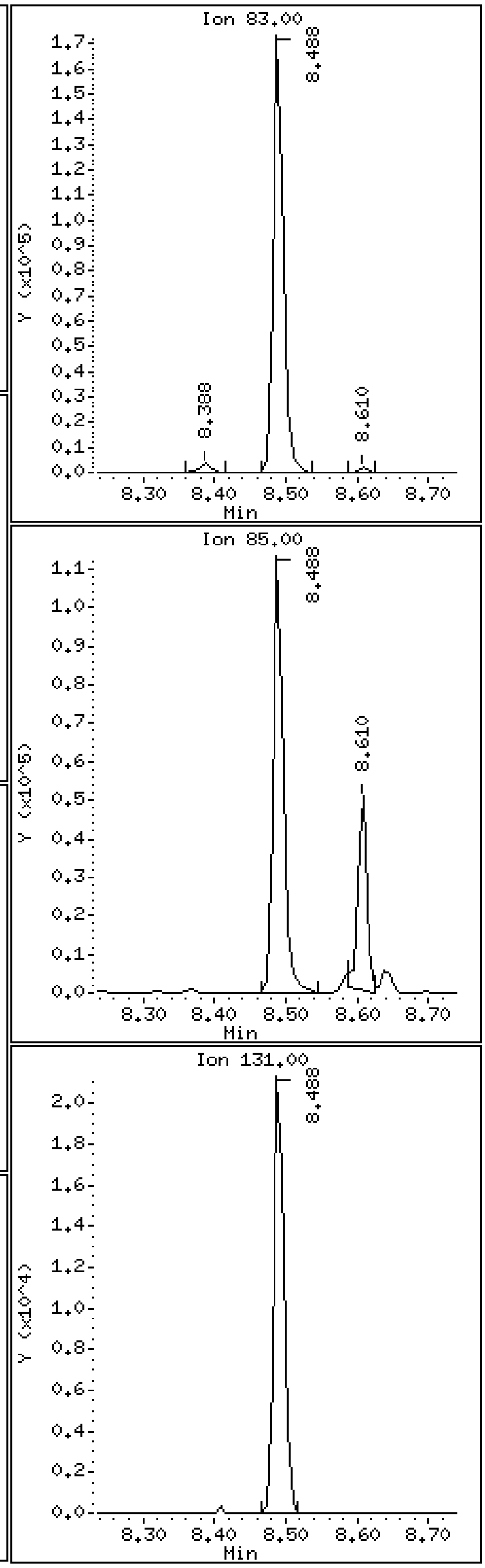
Column diameter: 0.18

79 1,1,2,2-Tetrachloroethane

Concentration: 37.0 ppb

Review Code:





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Date : 23-JAN-2023 11:36

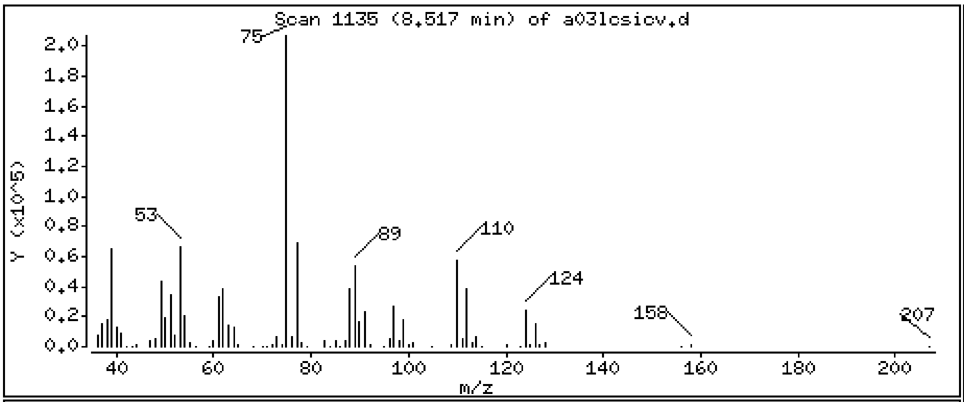
Client ID: Instrument: 50mvda.i

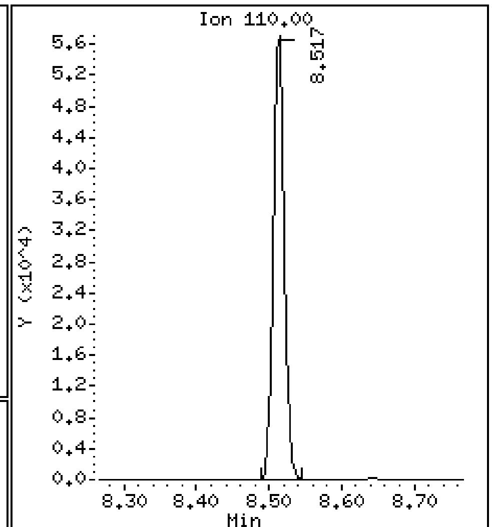
Sample Info: 8260-ICV

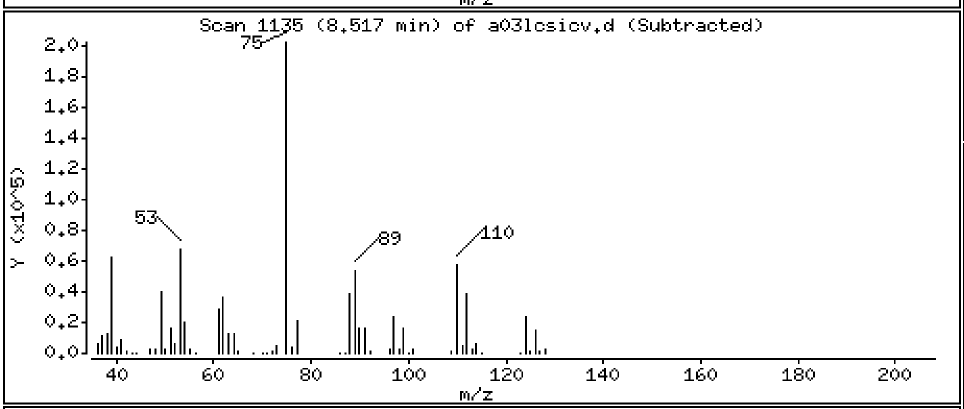
Purge Volume: 5.0 Operator: tkg

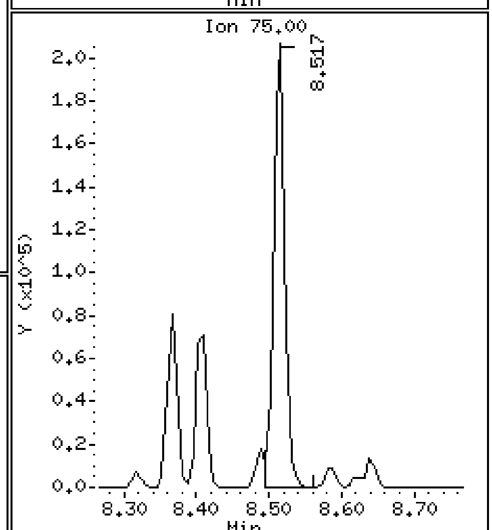
Column phase: DB-624 Column diameter: 0.18

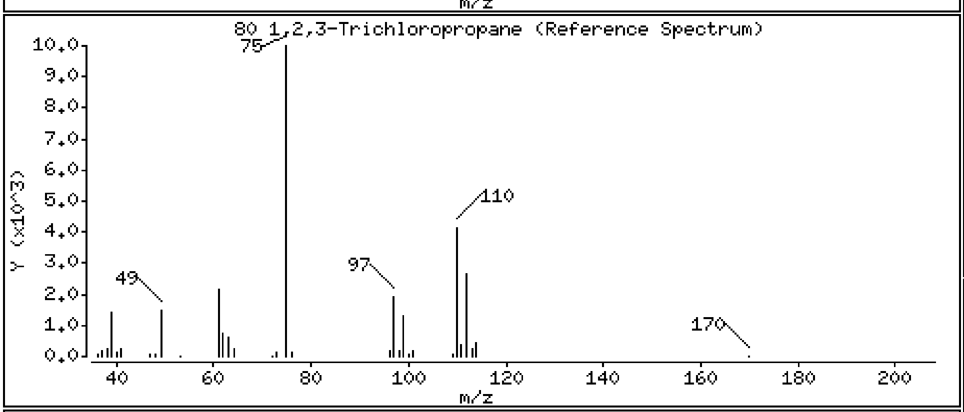
80 1,2,3-Trichloropropane Concentration: 41.0 ppb Review Code:

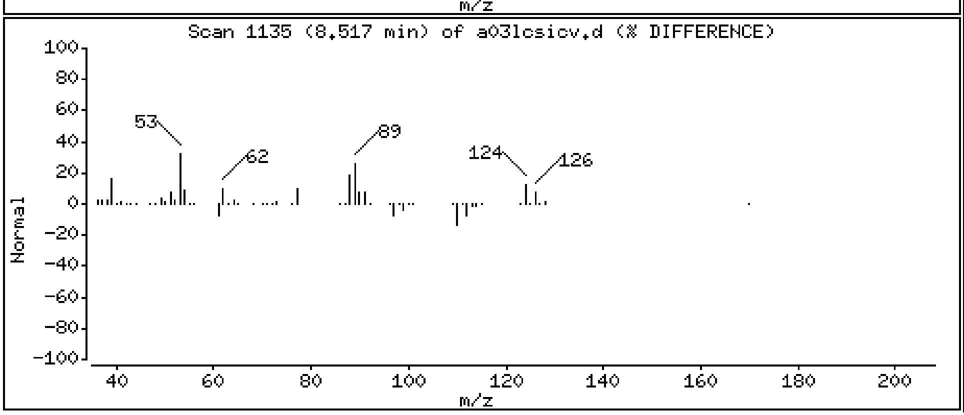


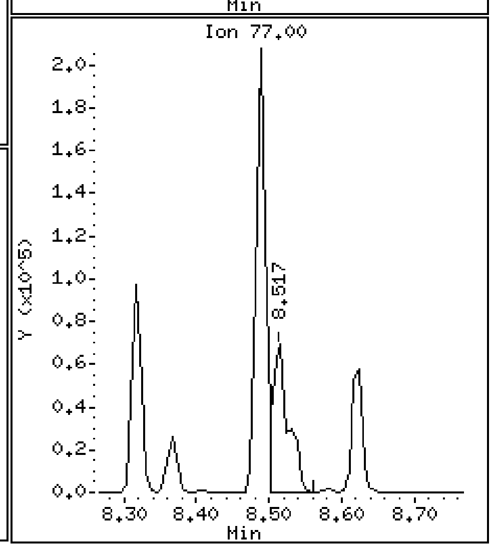












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

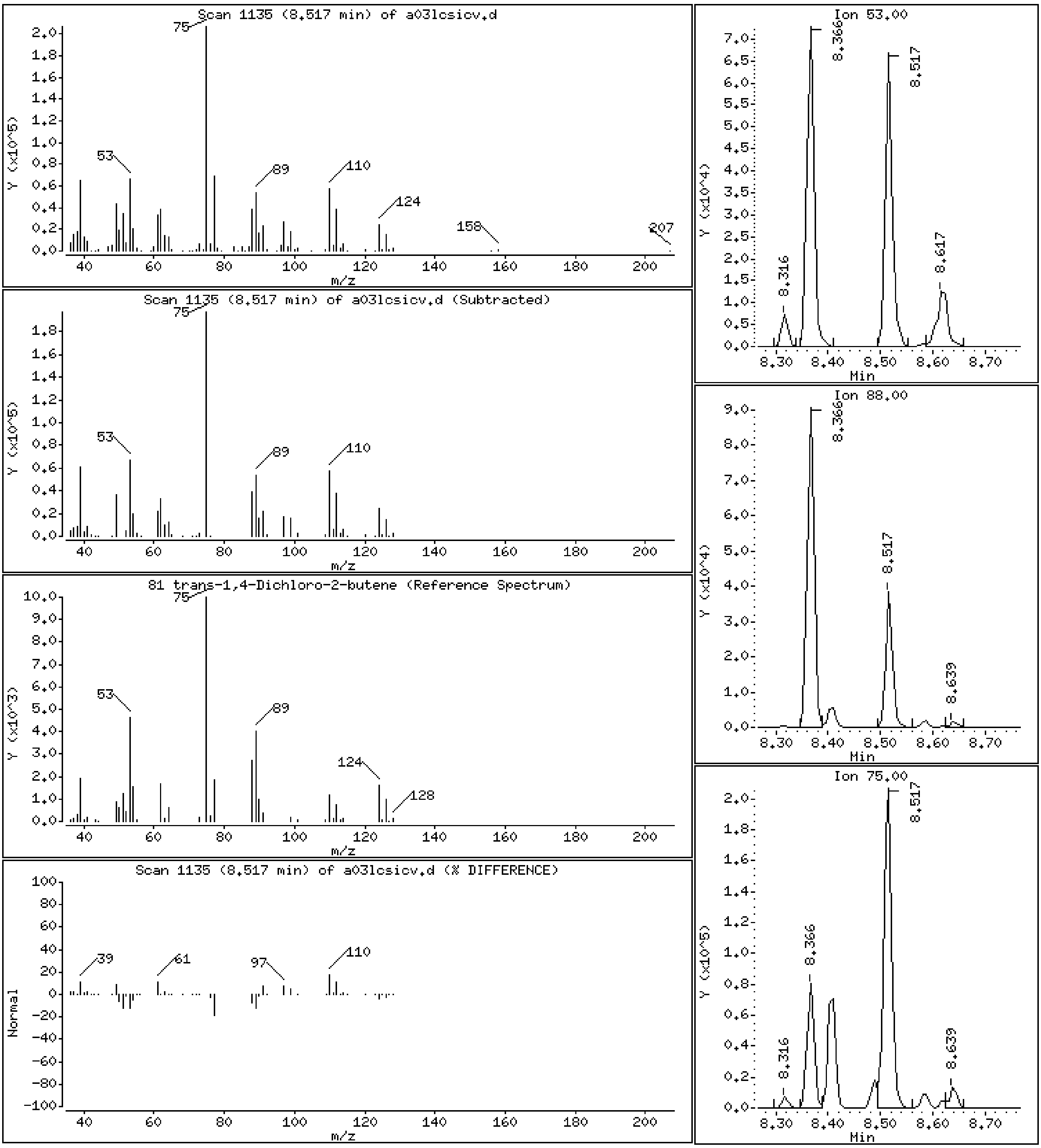
Column phase: DB-624

Column diameter: 0.18

81 trans-1,4-Dichloro-2-butene

Concentration: 39.7 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

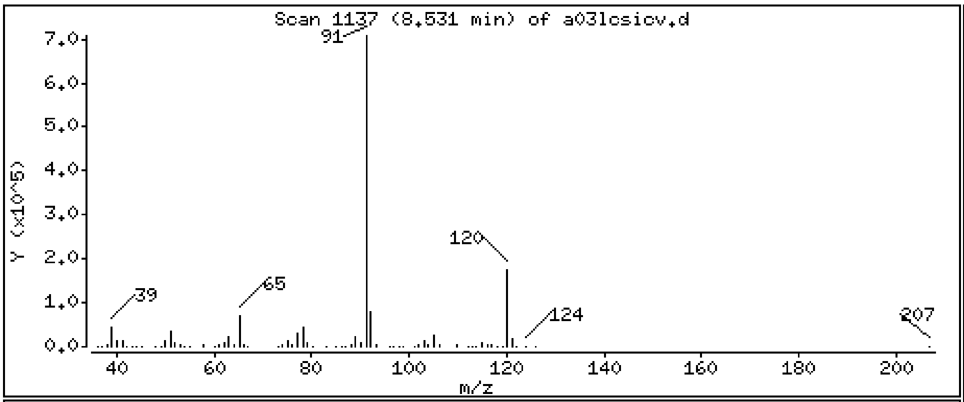
Column phase: DB-624

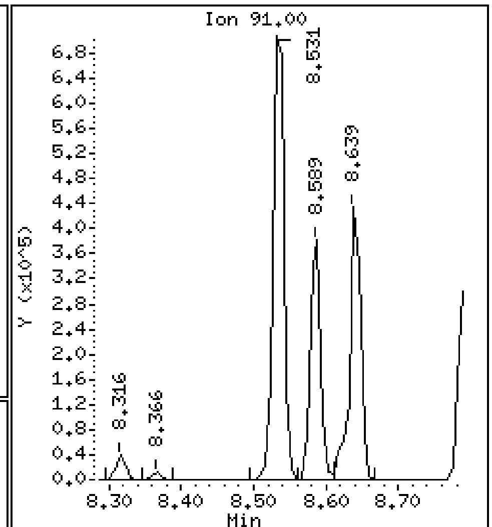
Column diameter: 0.18

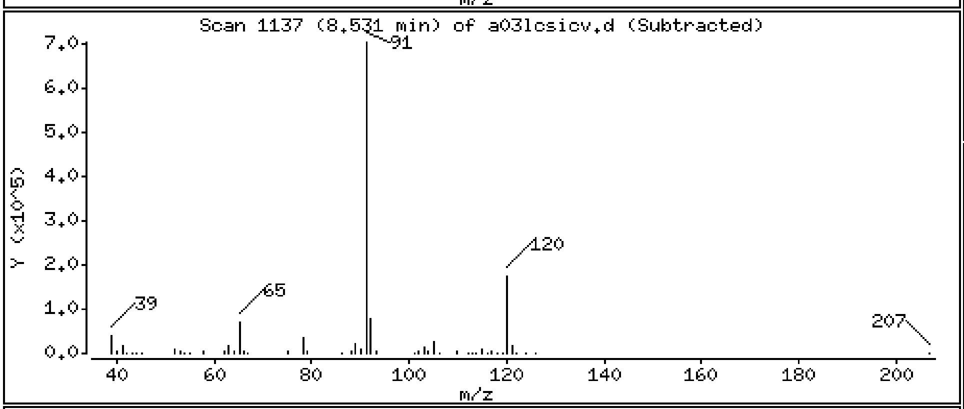
82 n-Propylbenzene

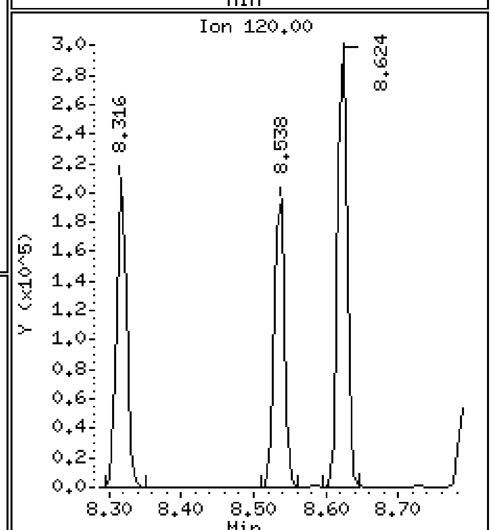
Concentration: 38.4 ppb

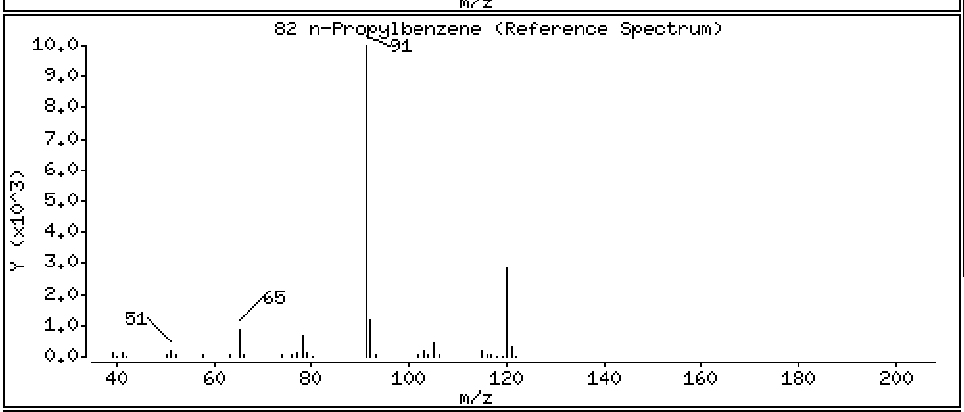
Review Code:

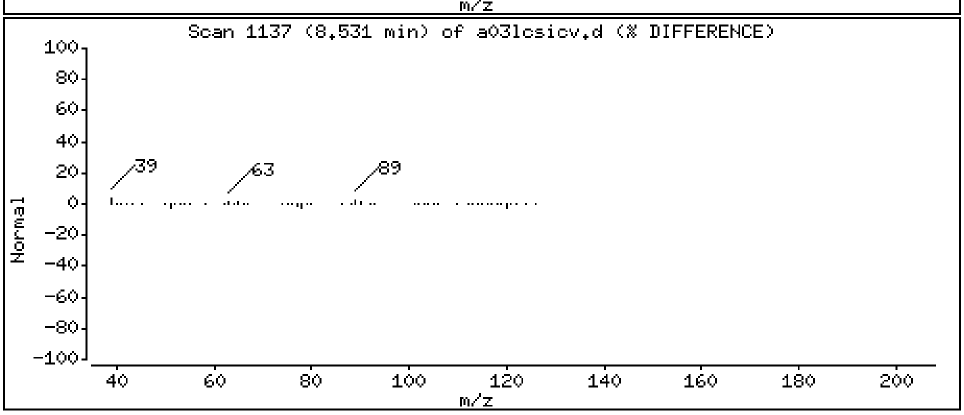












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Date : 23-JAN-2023 11:36

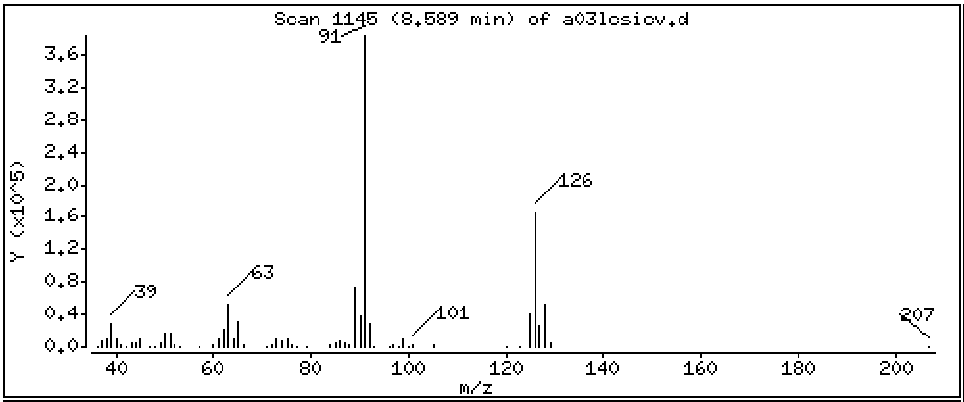
Client ID: Instrument: 50mvda.i

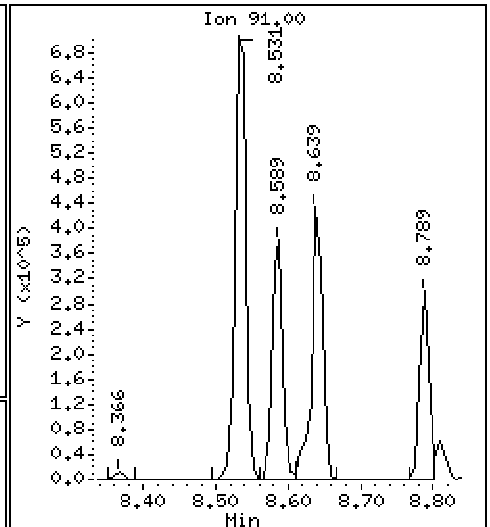
Sample Info: 8260-ICV

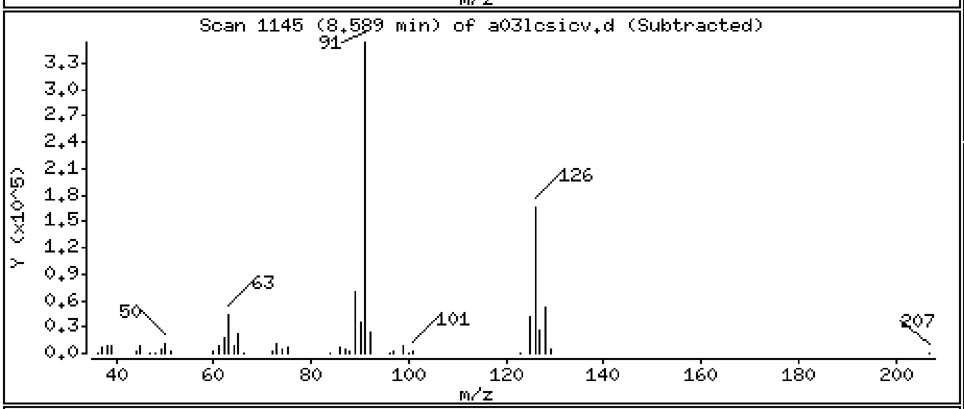
Purge Volume: 5.0 Operator: tkg

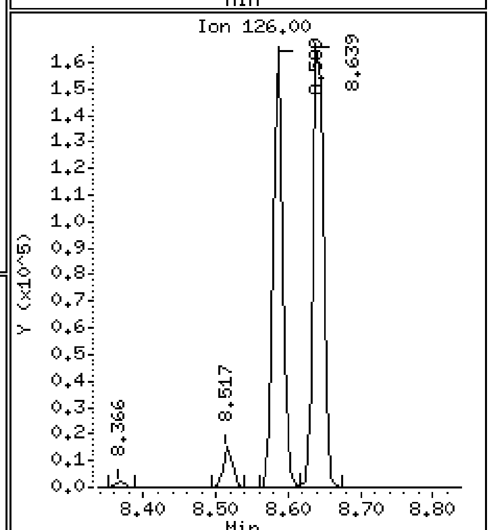
Column phase: DB-624 Column diameter: 0.18

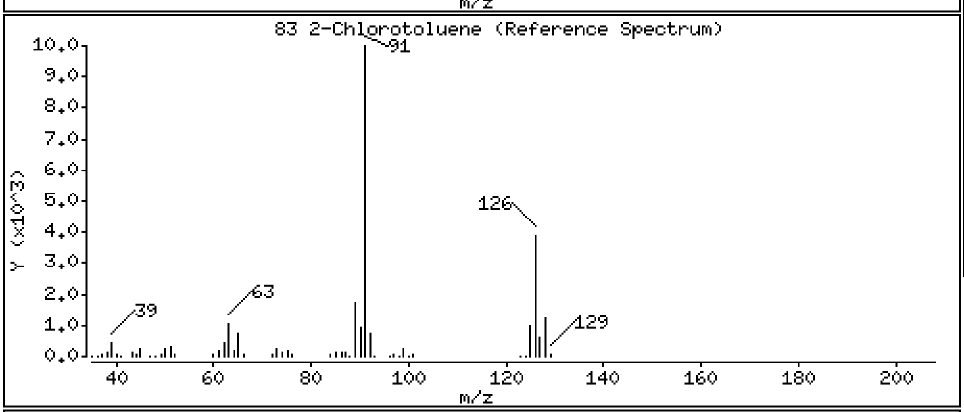
83 2-Chlorotoluene Concentration: 38.1 ppb Review Code:

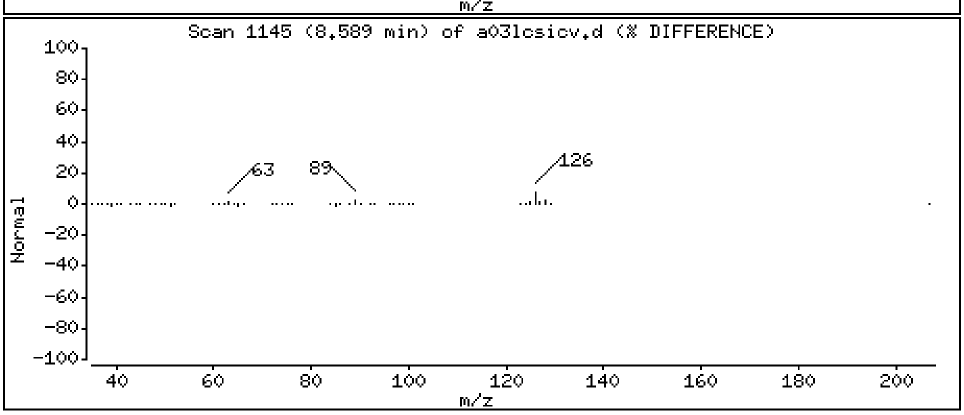












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

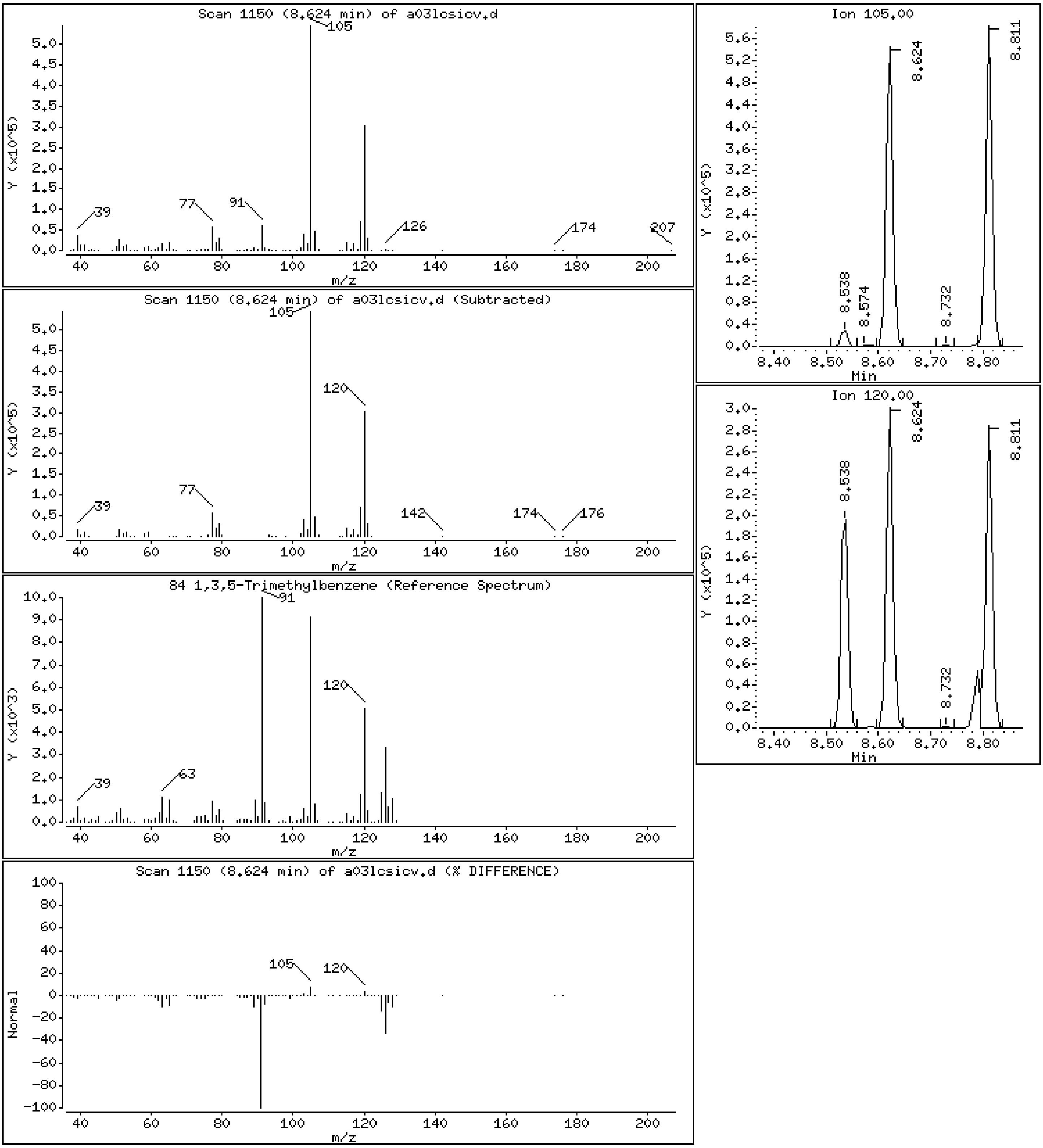
Column phase: DB-624

Column diameter: 0.18

84 1,3,5-Trimethylbenzene

Concentration: 40.2 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

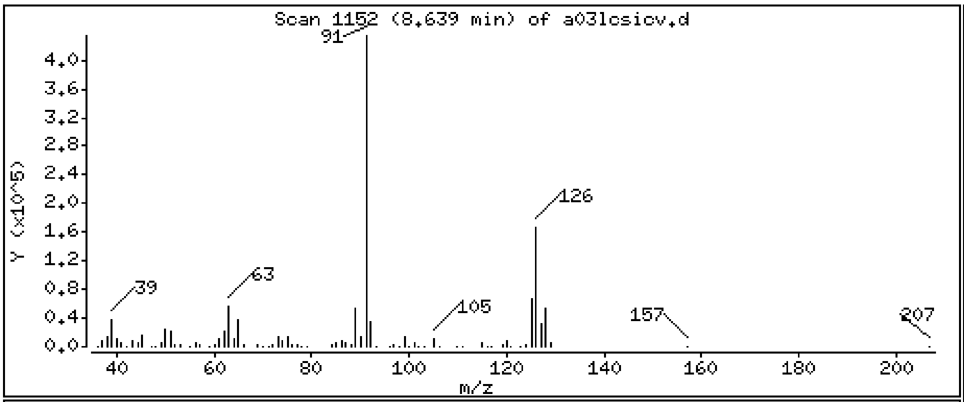
Column phase: DB-624

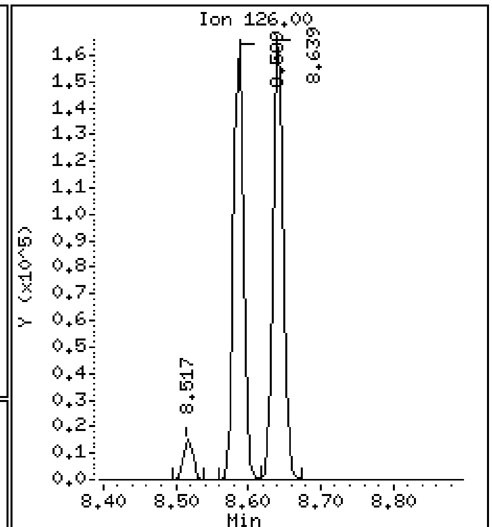
Column diameter: 0.18

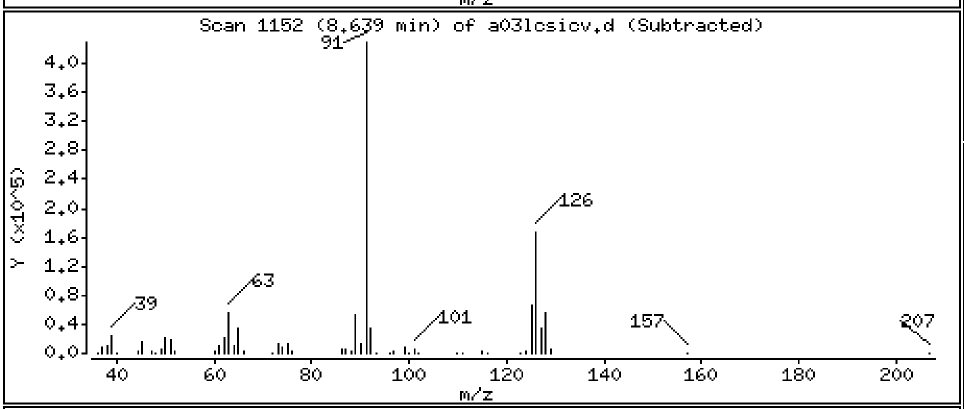
85 4-Chlorotoluene

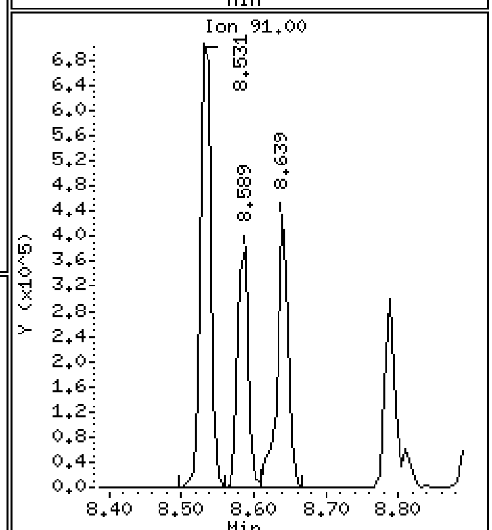
Concentration: 43.7 ppb

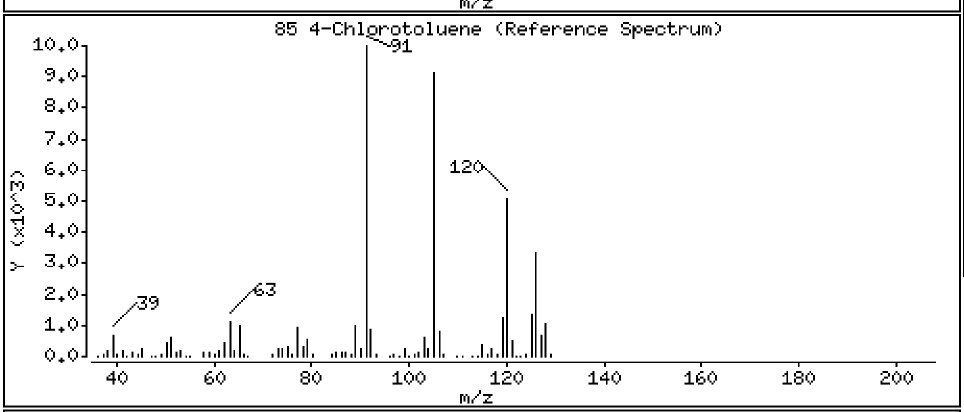
Review Code:

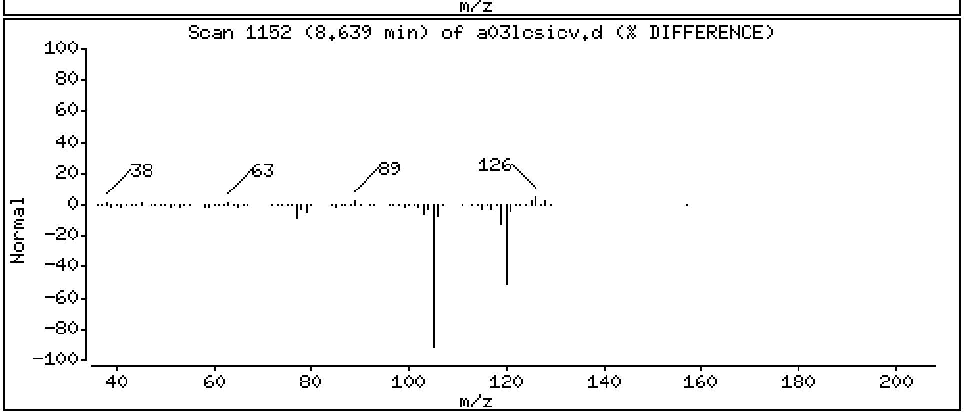












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

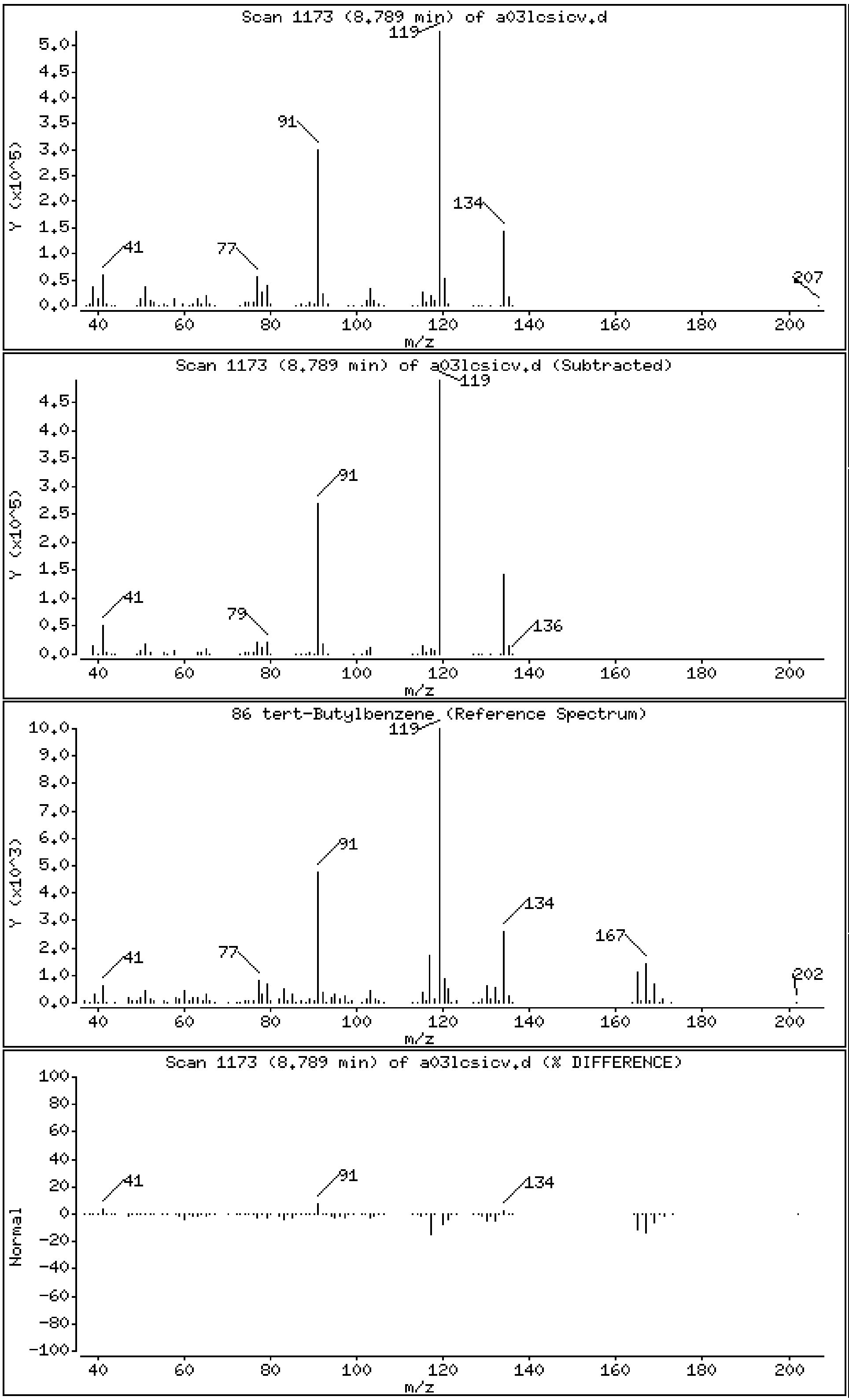
Column phase: DB-624

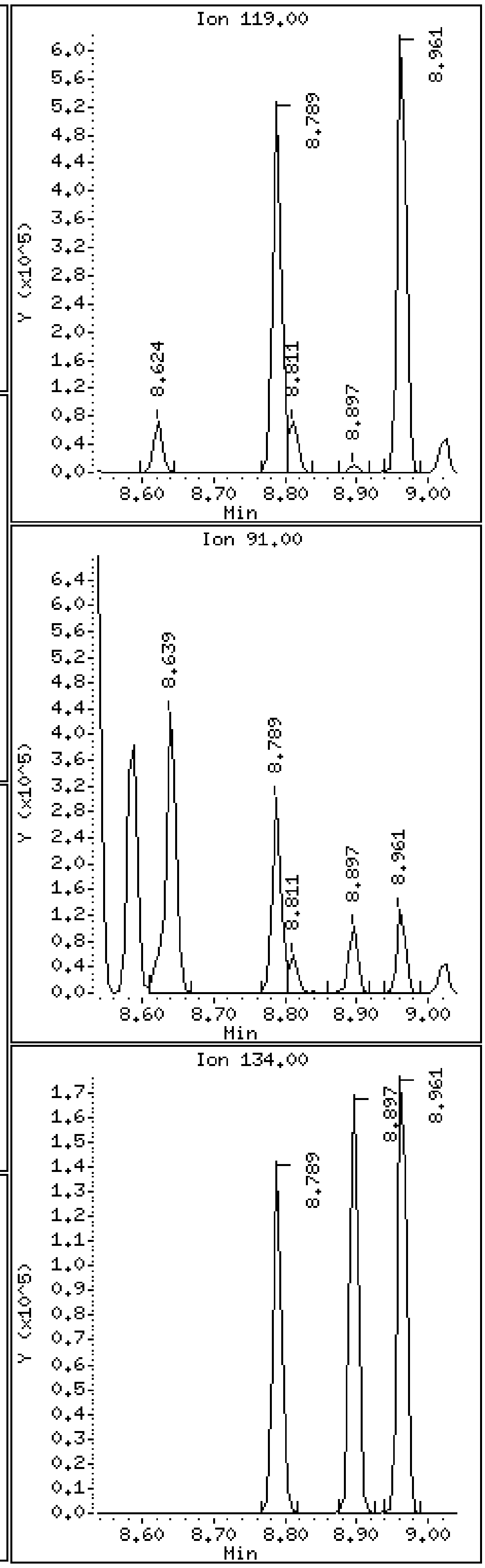
Column diameter: 0.18

86 tert-Butylbenzene

Concentration: 37.5 ppb

Review Code:





Date : 23-JAN-2023 11:36

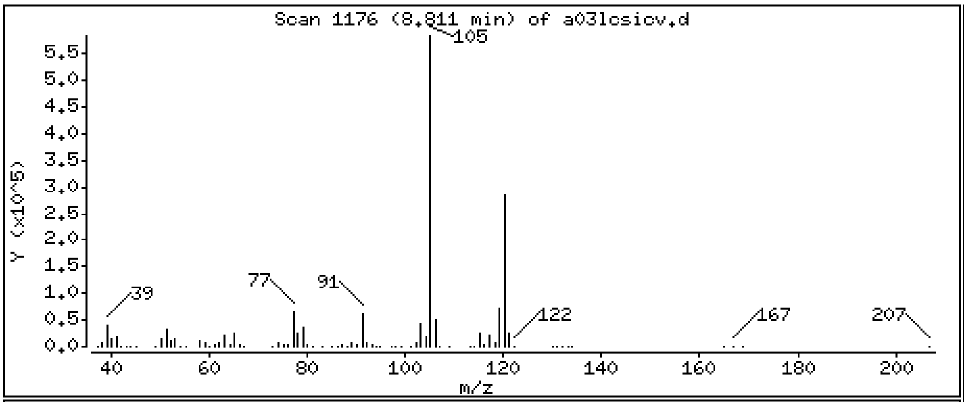
Client ID: Instrument: 50mvda.i

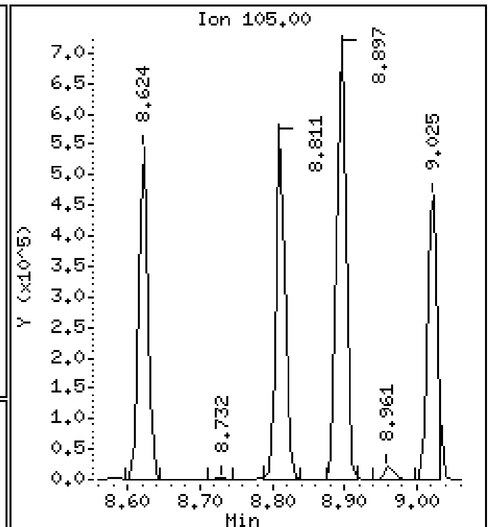
Sample Info: 8260-ICV

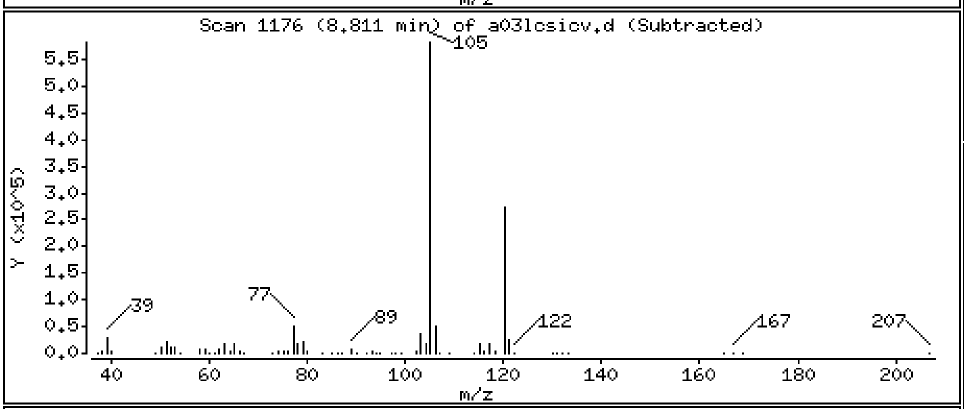
Purge Volume: 5.0 Operator: tkg

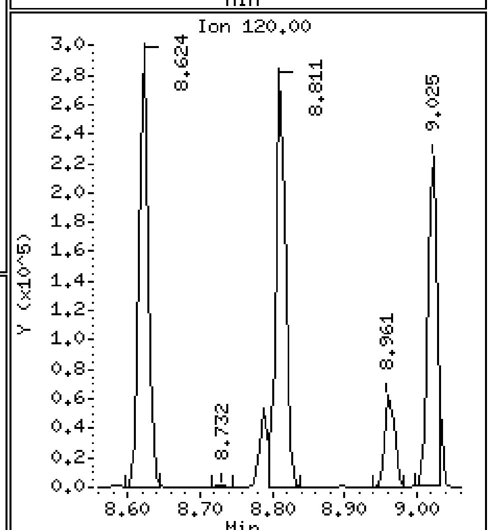
Column phase: DB-624 Column diameter: 0.18

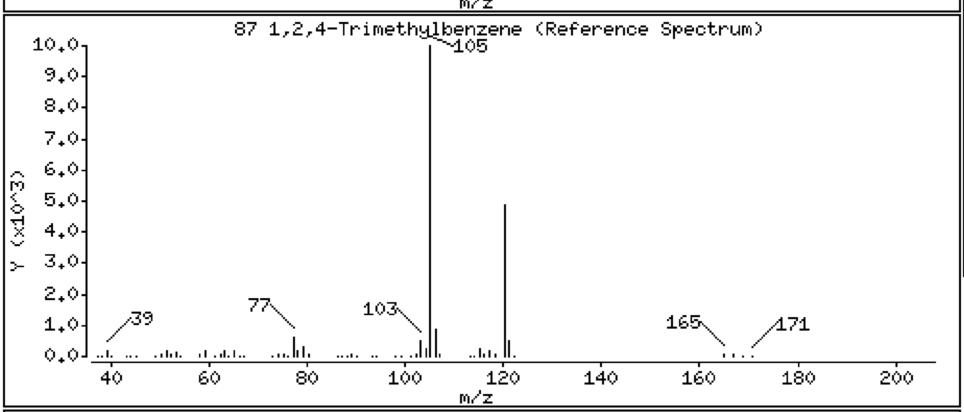
87 1,2,4-Trimethylbenzene Concentration: 40.1 ppb Review Code:

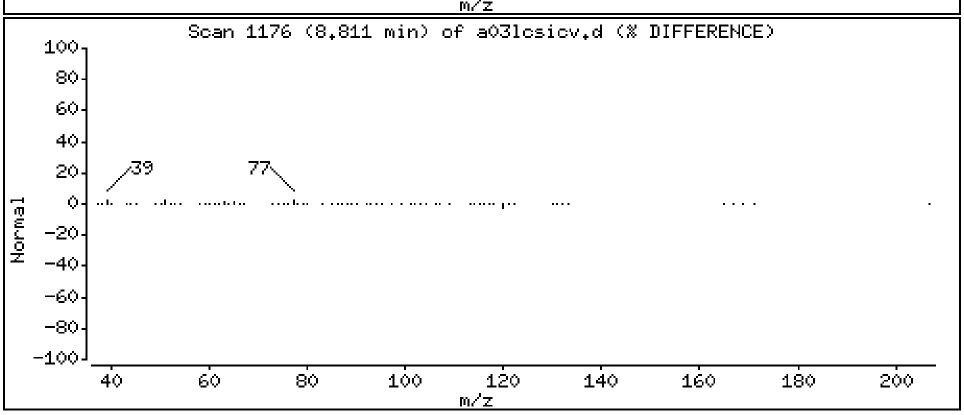












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Date : 23-JAN-2023 11:36

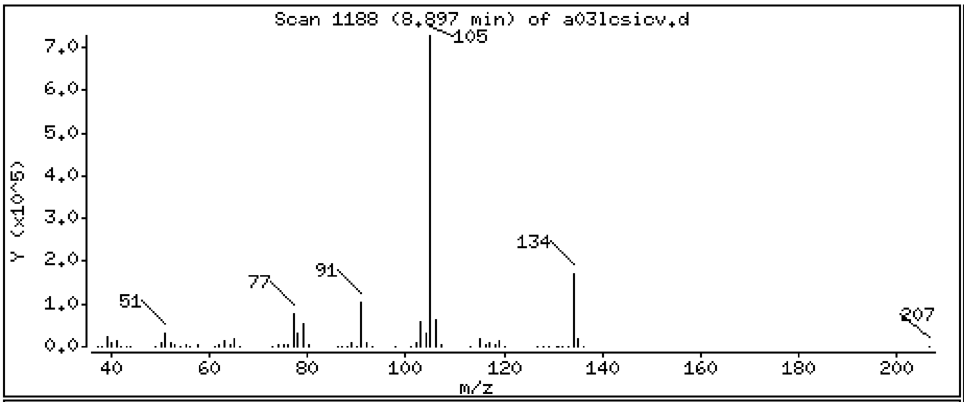
Client ID: Instrument: 50mvda.i

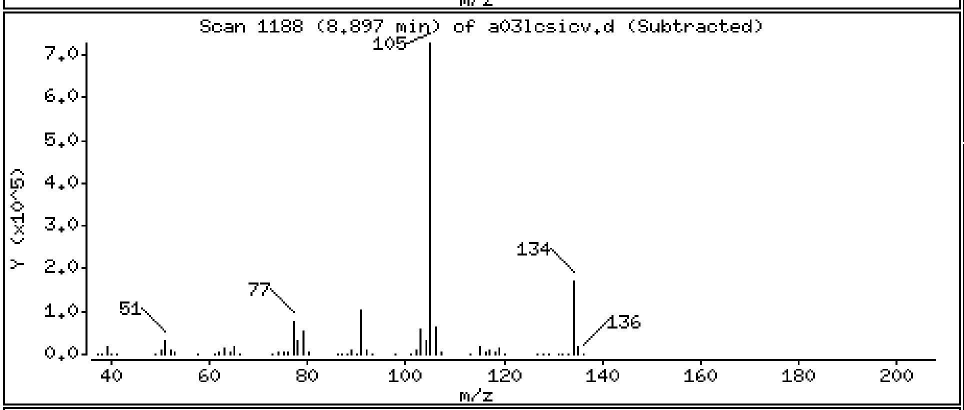
Sample Info: 8260-ICV

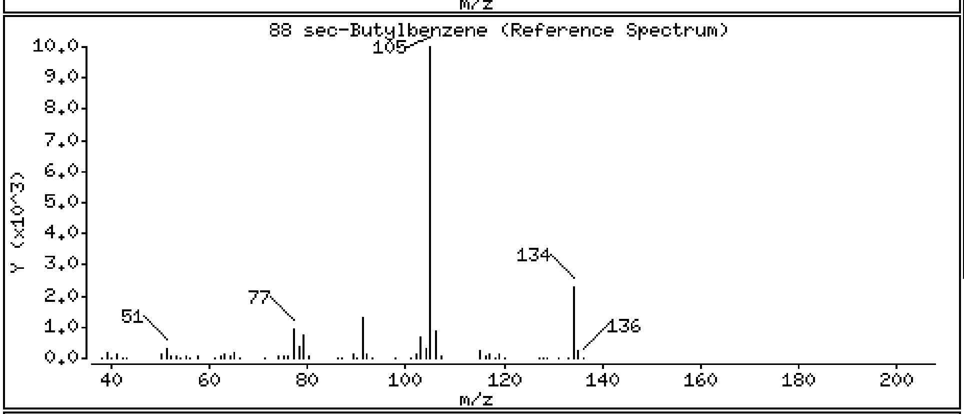
Purge Volume: 5.0 Operator: tkg

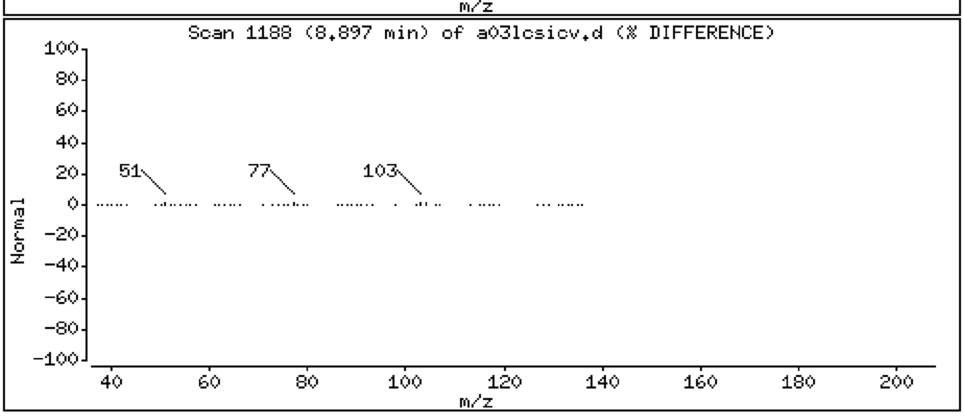
Column phase: DB-624 Column diameter: 0.18

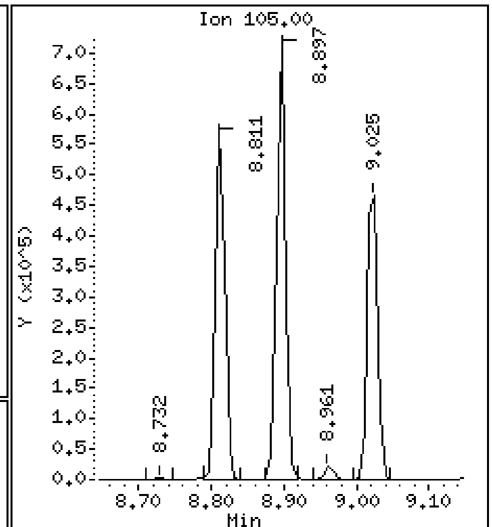
88 sec-Butylbenzene Concentration: 40.5 ppb Review Code:

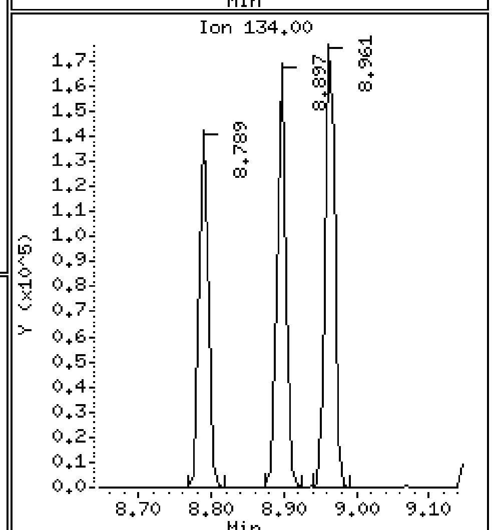












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

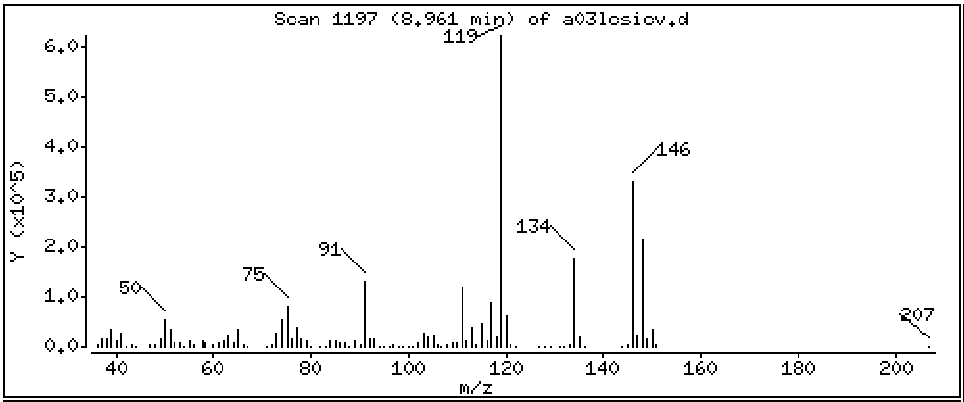
Column phase: DB-624

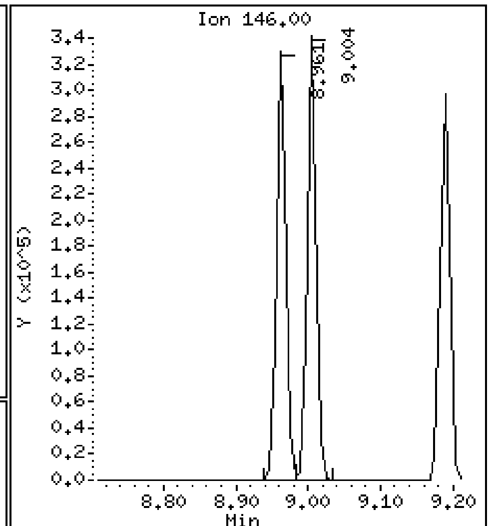
Column diameter: 0.18

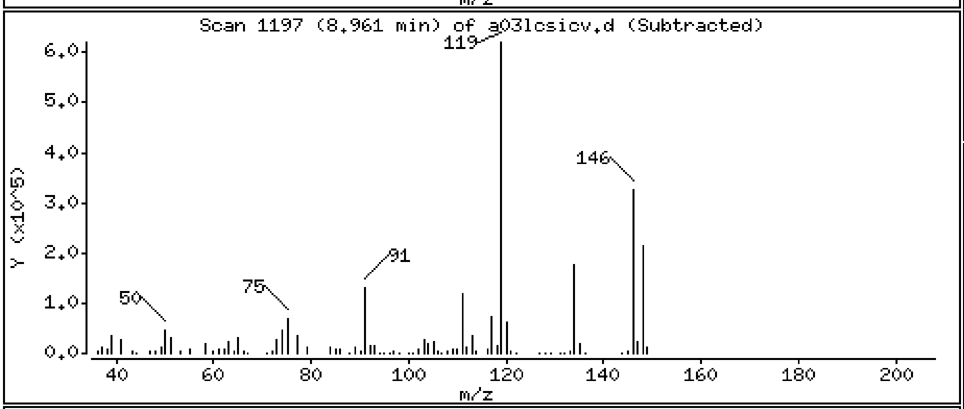
89 1,3-Dichlorobenzene

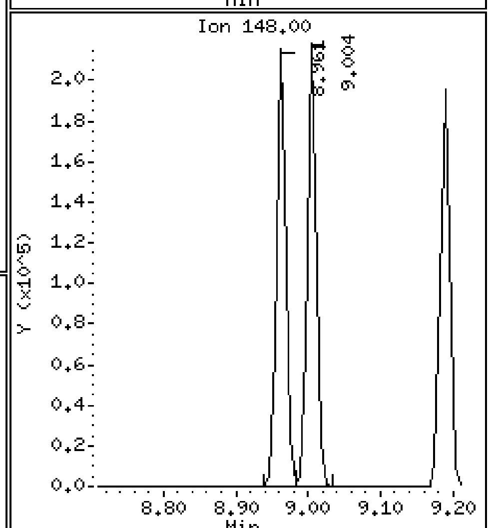
Concentration: 44.9 ppb

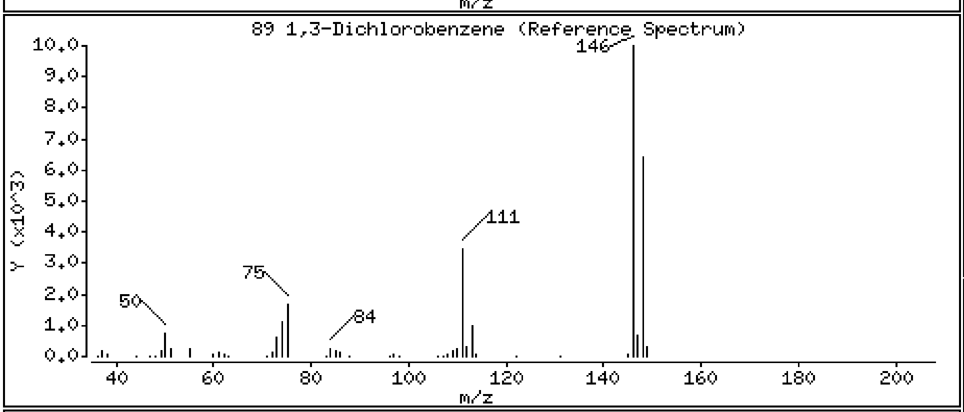
Review Code:

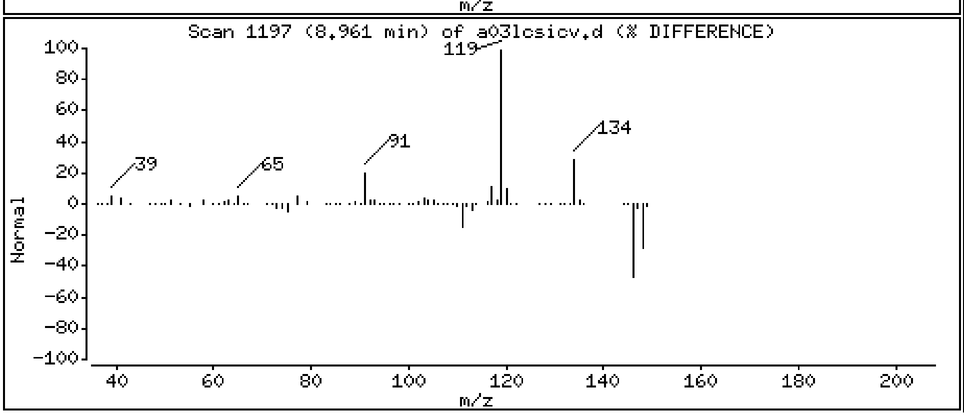


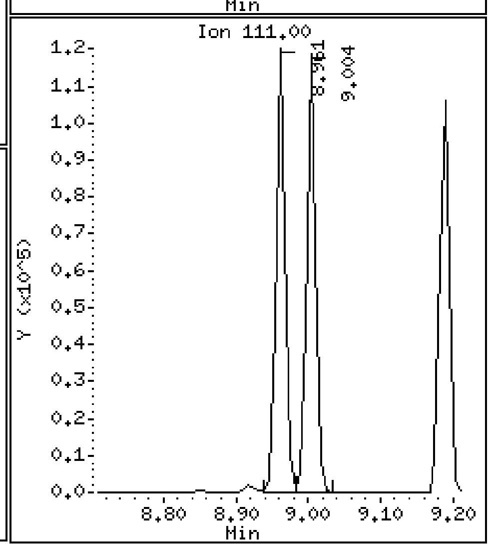












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

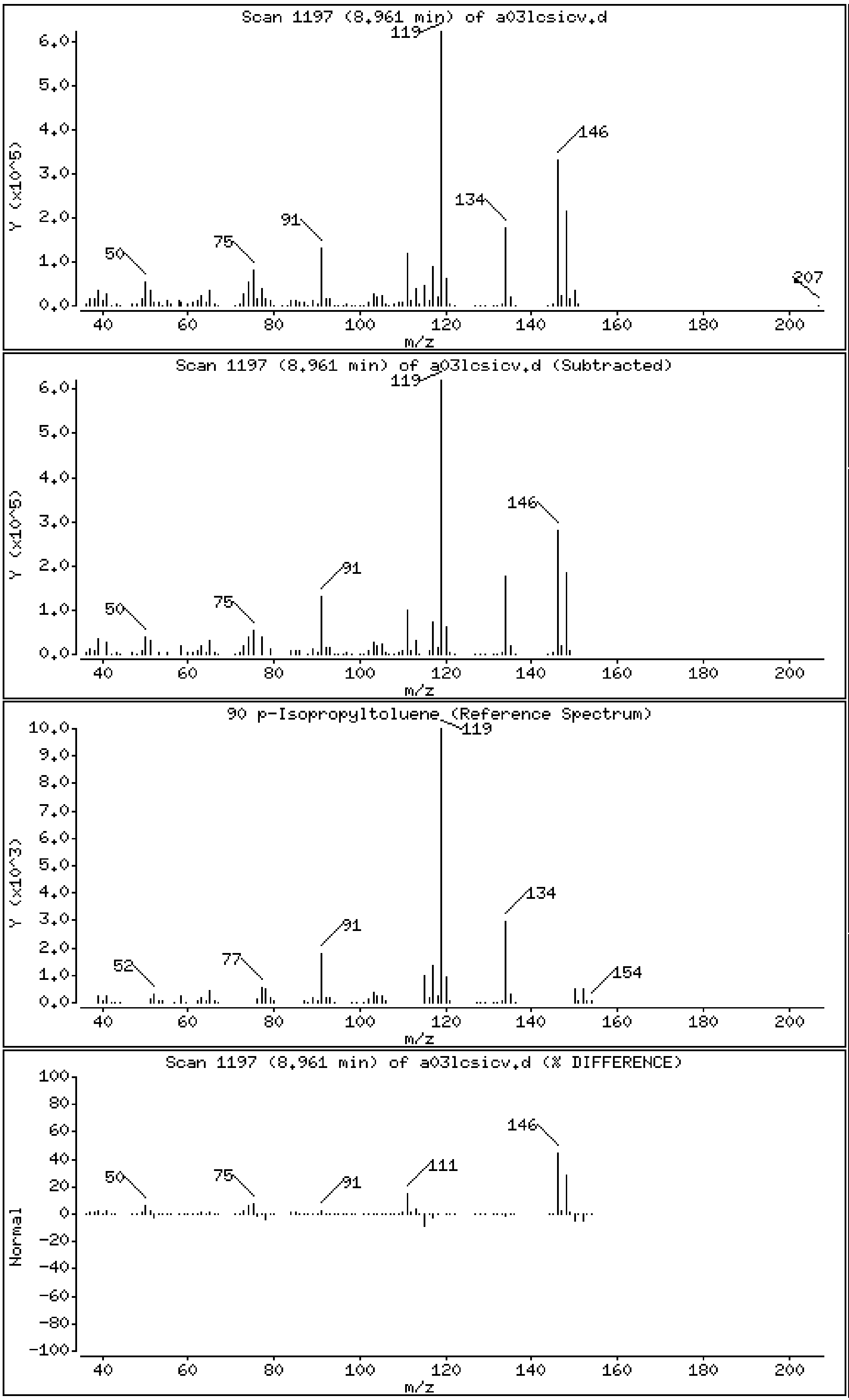
Column phase: DB-624

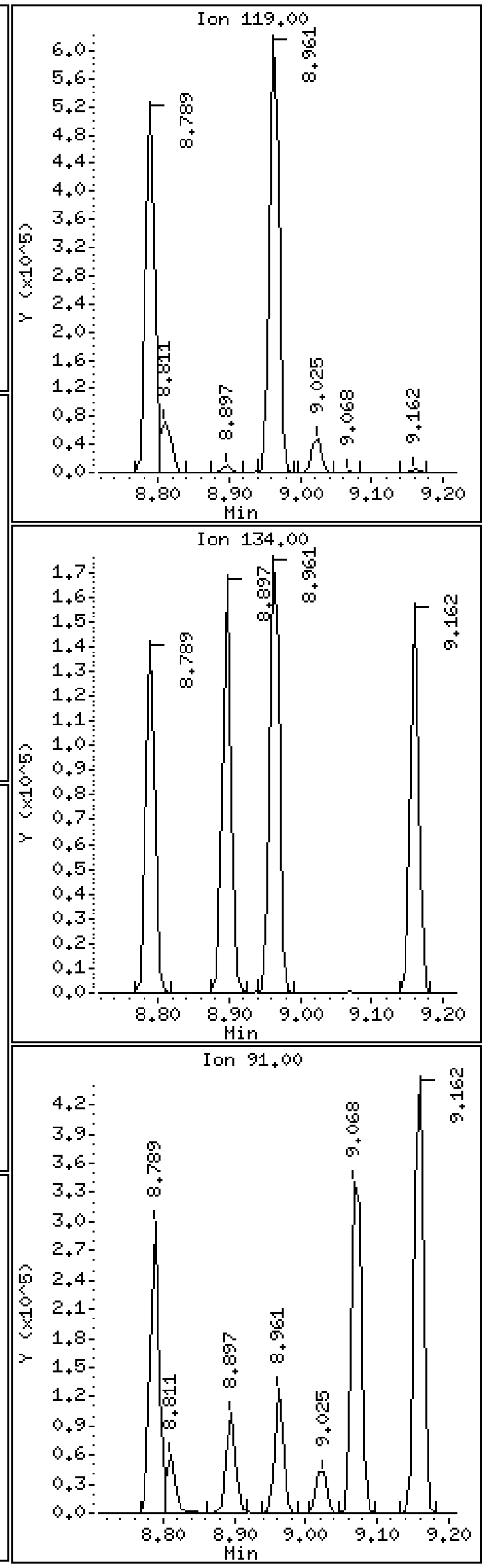
Column diameter: 0.18

90 p-Isopropyltoluene

Concentration: 42.6 ppb

Review Code:





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Date : 23-JAN-2023 11:36

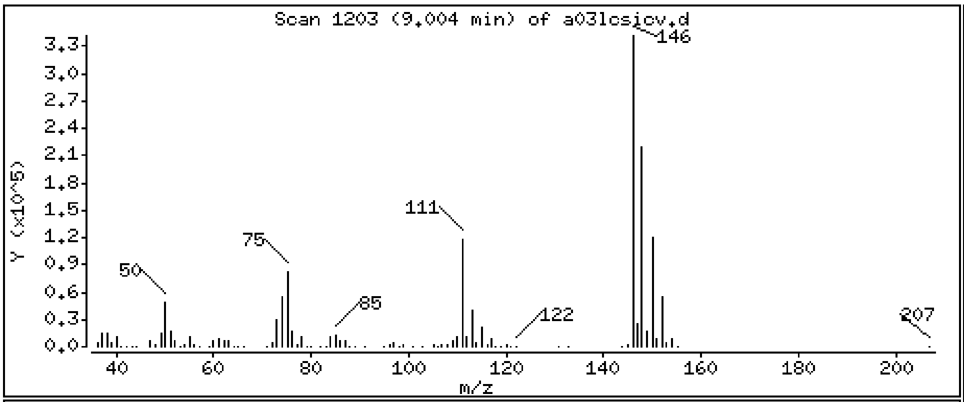
Client ID: Instrument: 50mvda.i

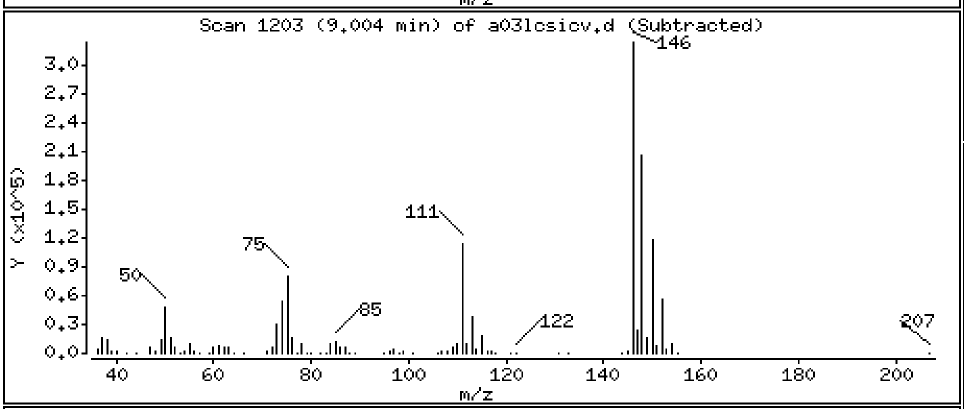
Sample Info: 8260-ICV

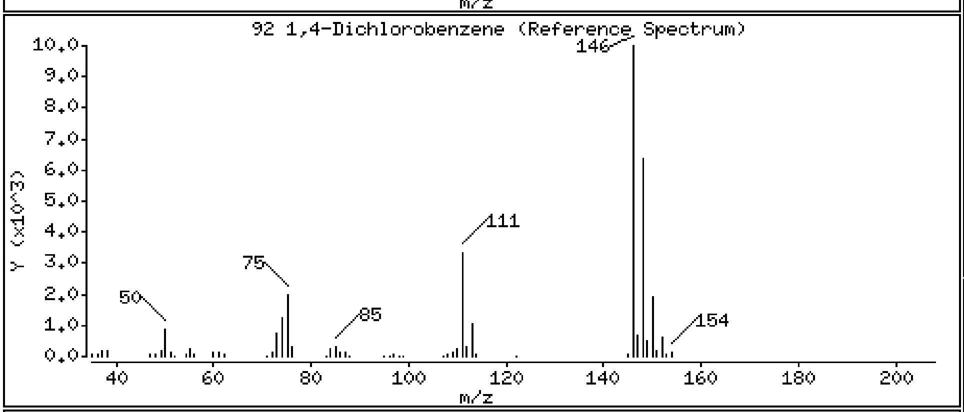
Purge Volume: 5.0 Operator: tkg

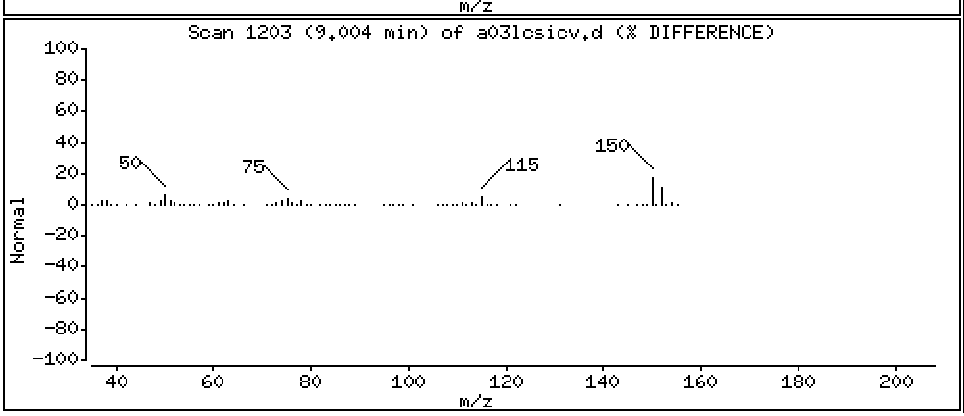
Column phase: DB-624 Column diameter: 0.18

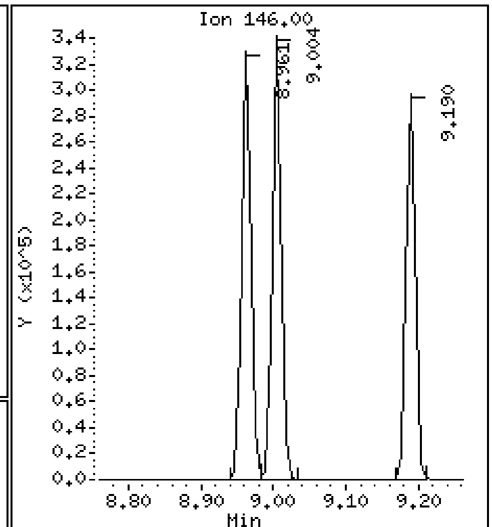
92 1,4-Dichlorobenzene Concentration: 44.0 ppb Review Code:

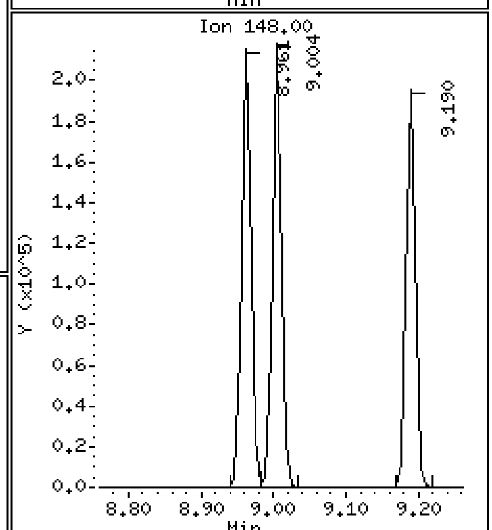


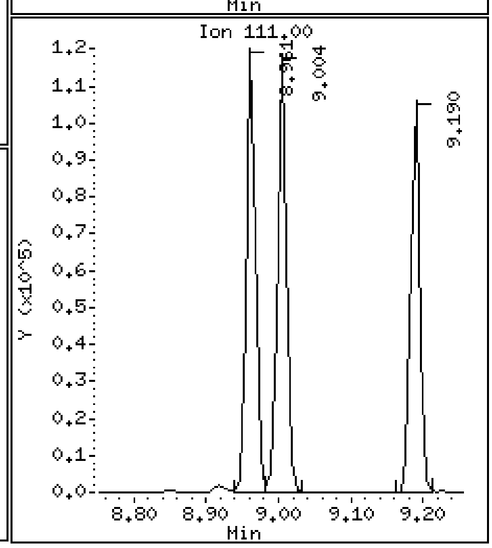












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

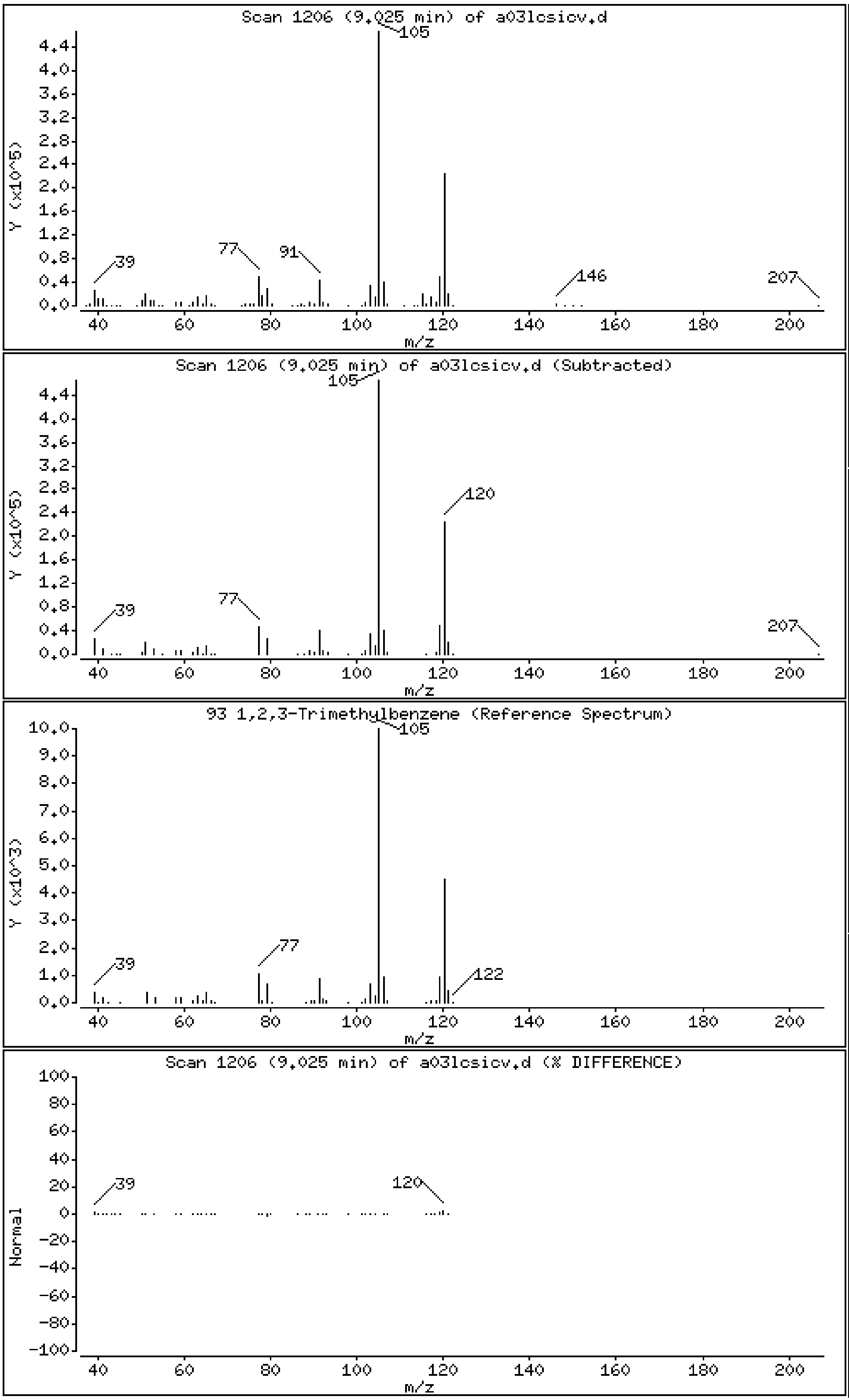
Column phase: DB-624

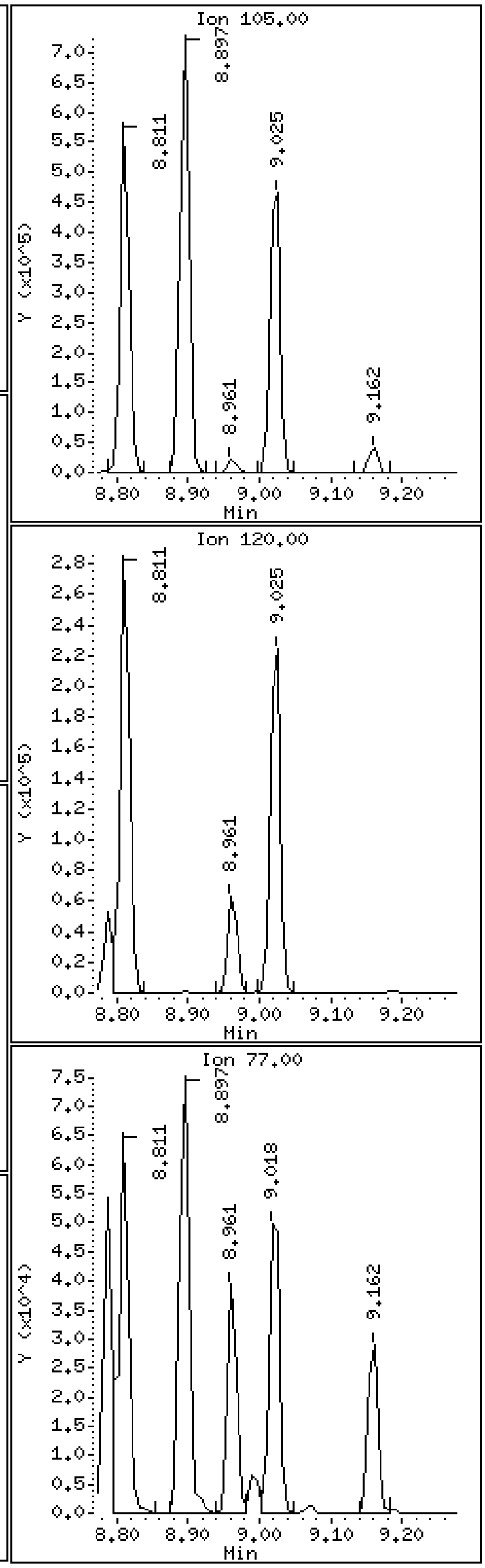
Column diameter: 0.18

93 1,2,3-Trimethylbenzene

Concentration: 40.4 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

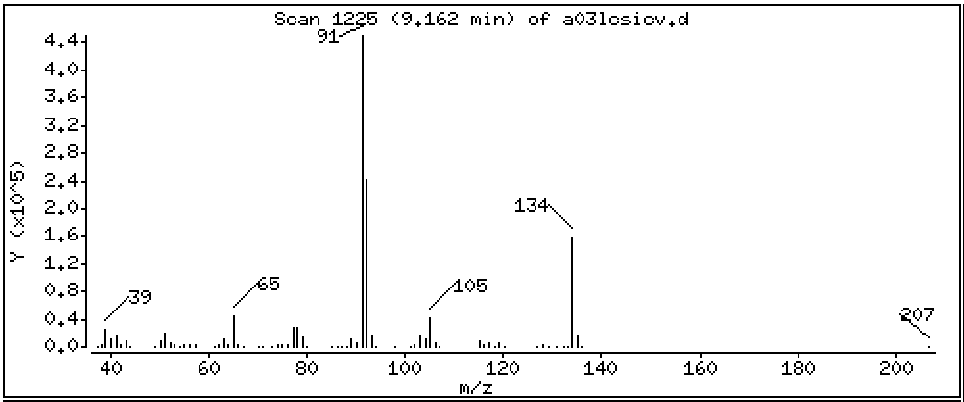
Column phase: DB-624

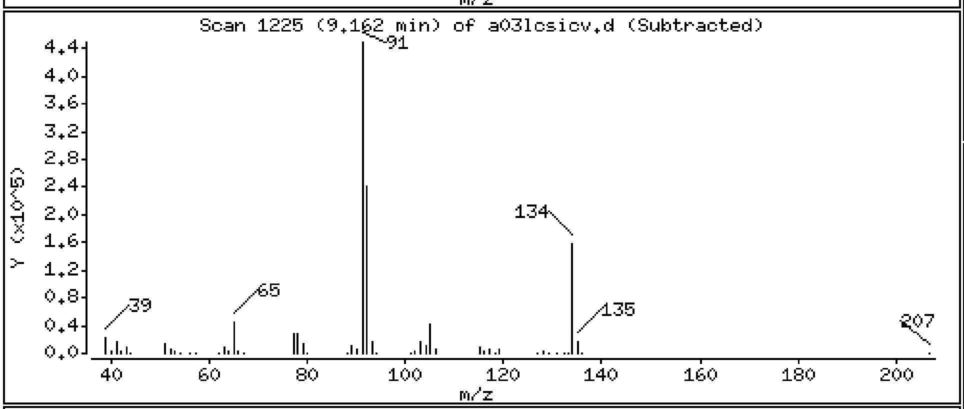
Column diameter: 0.18

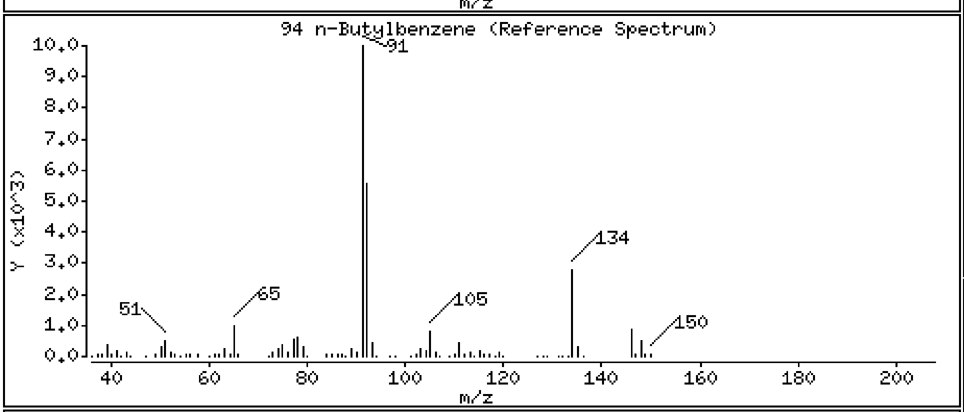
94 n-Butylbenzene

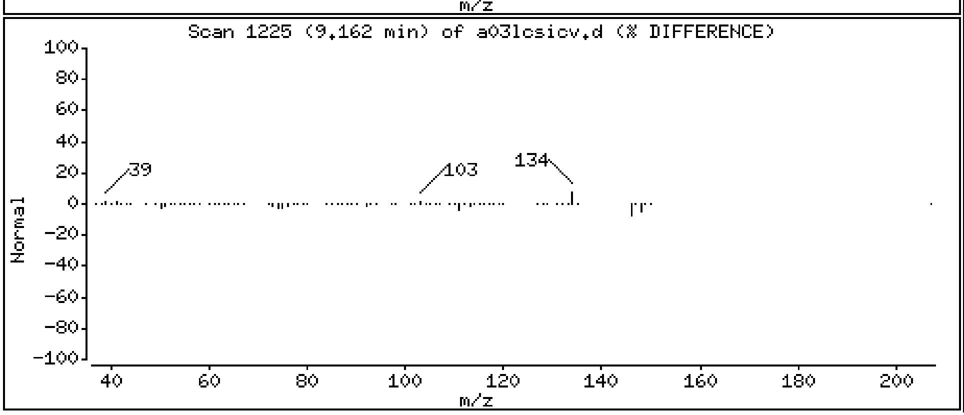
Concentration: 38.8 ppb

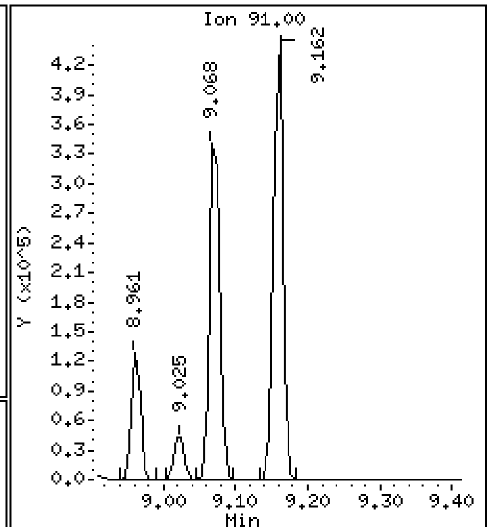
Review Code:

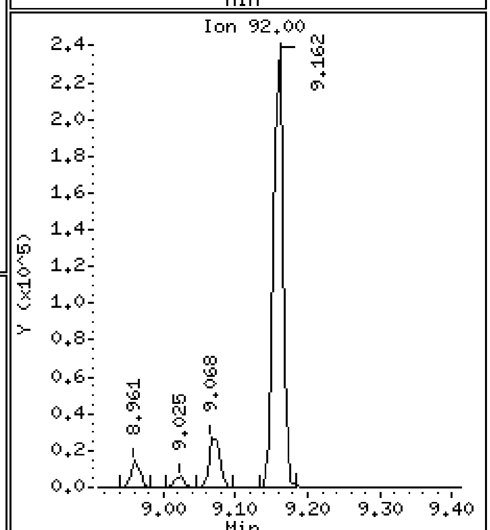


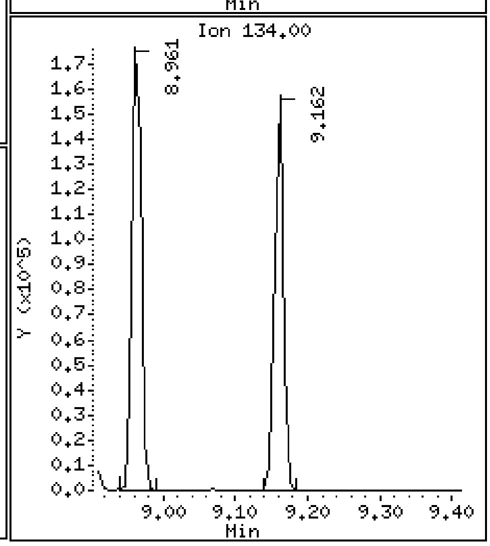












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

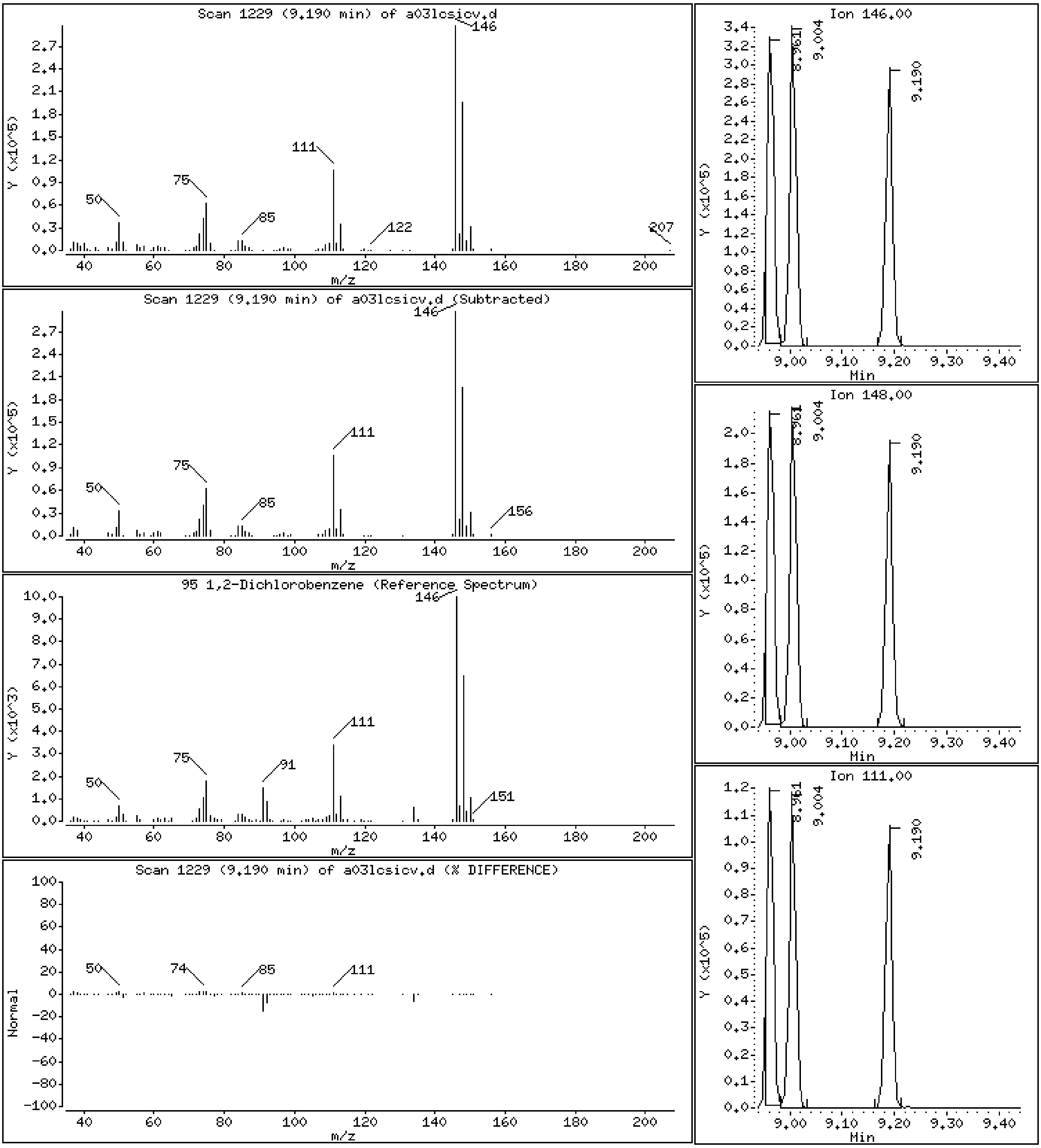
Column phase: DB-624

Column diameter: 0.18

95 1,2-Dichlorobenzene

Concentration: 45.3 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

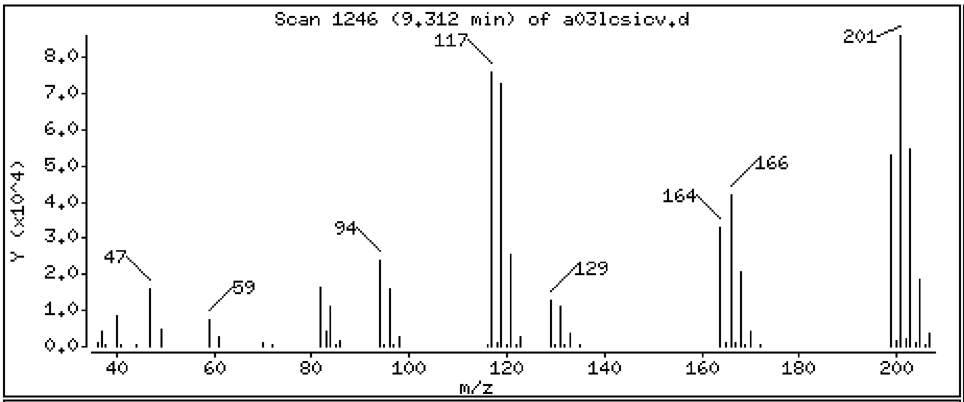
Column phase: DB-624

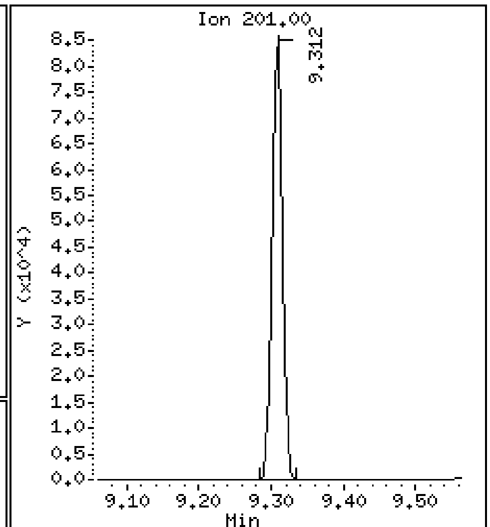
Column diameter: 0.18

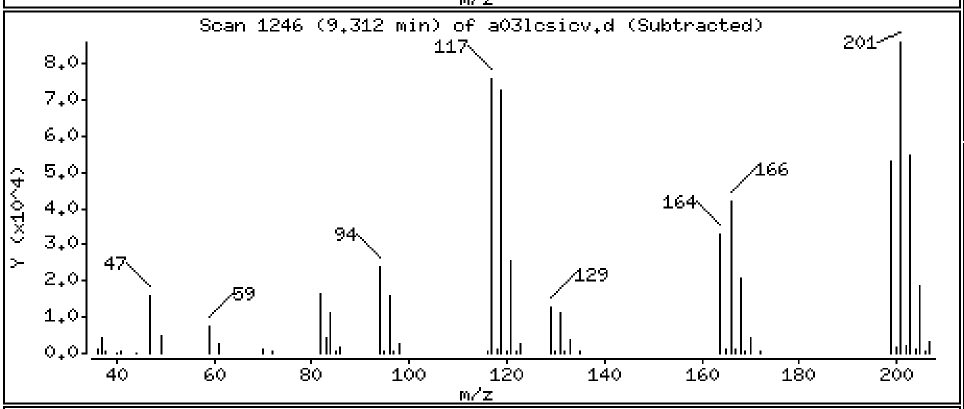
96 Hexachloroethane

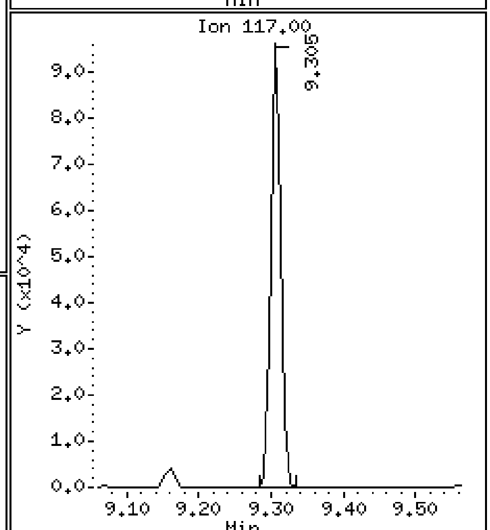
Concentration: 54.1 ppb

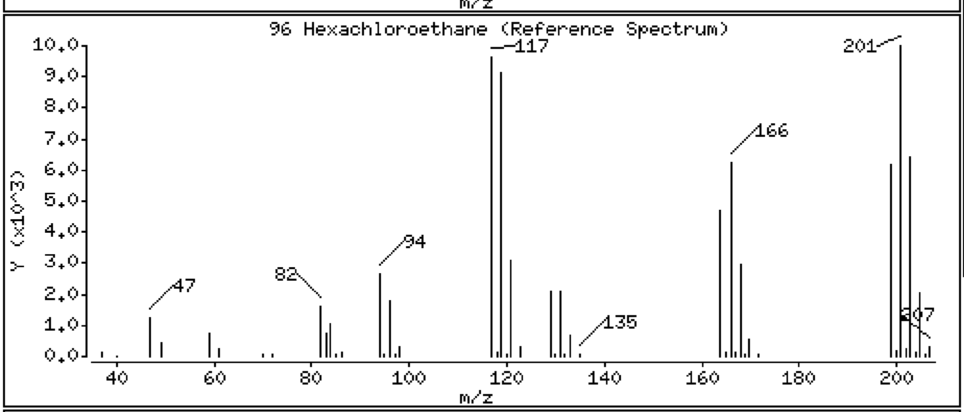
Review Code:

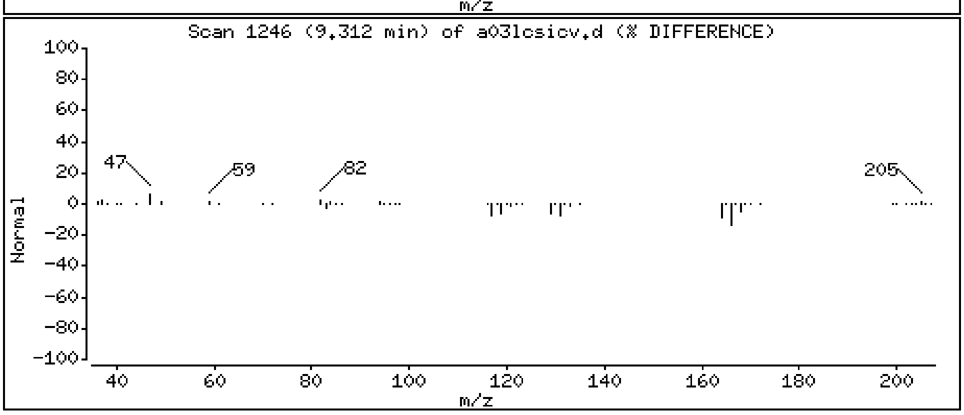












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Date : 23-JAN-2023 11:36

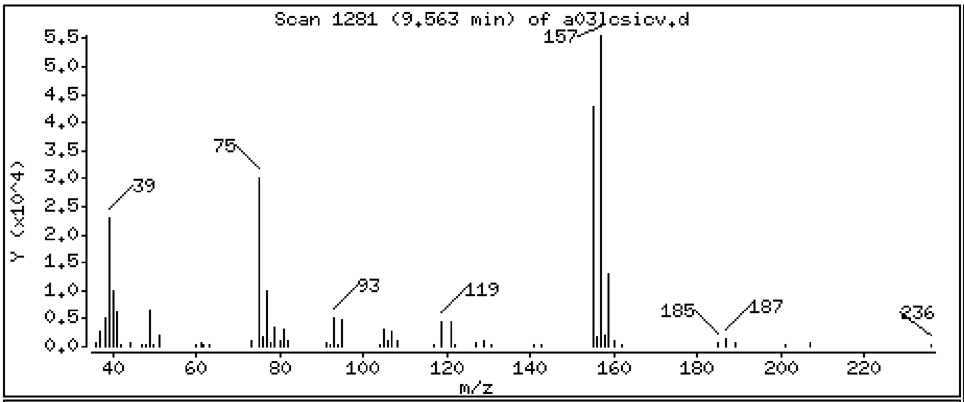
Client ID: Instrument: 50mvda.i

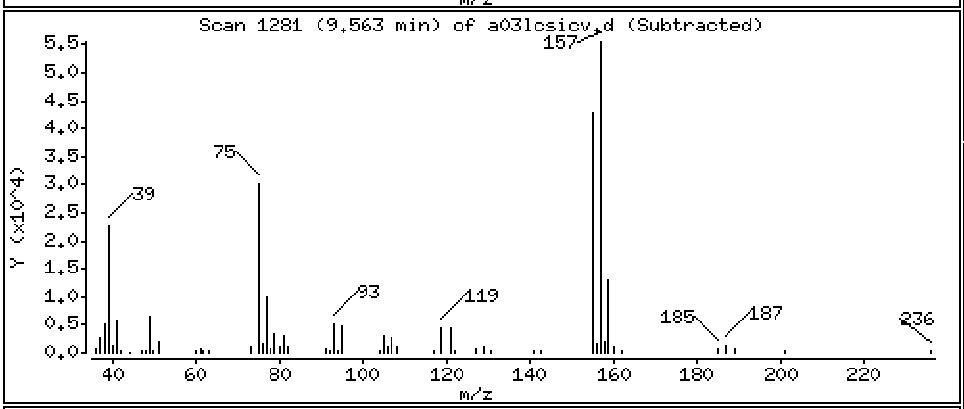
Sample Info: 8260-ICV

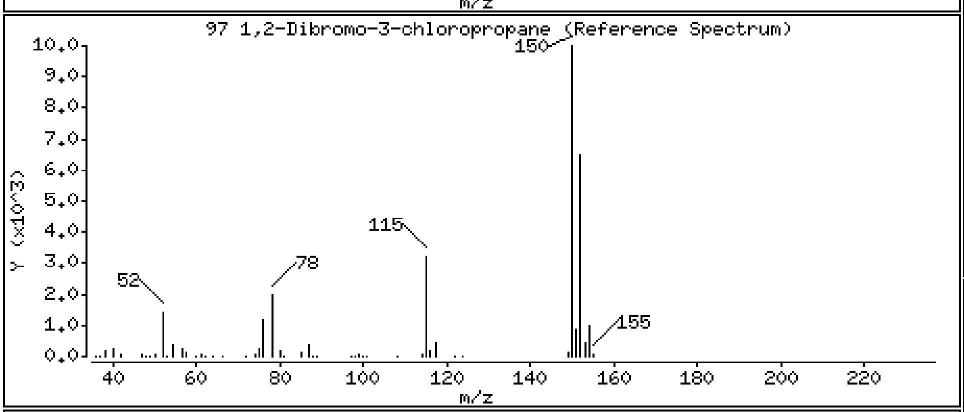
Purge Volume: 5.0 Operator: tkg

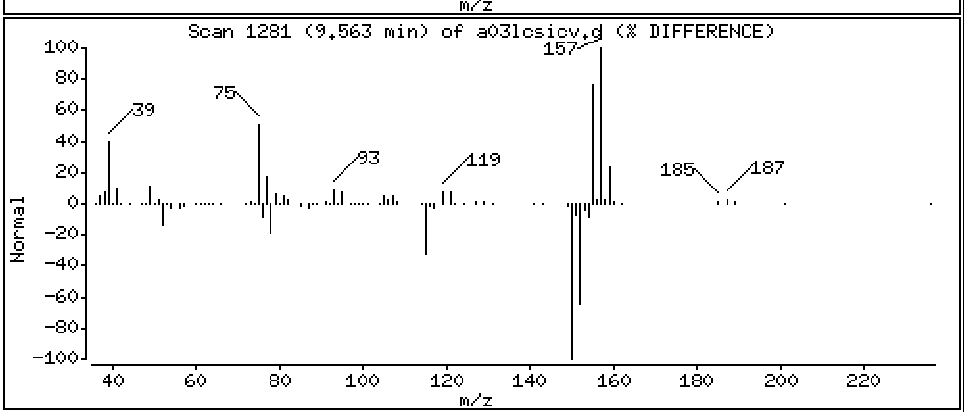
Column phase: DB-624 Column diameter: 0.18

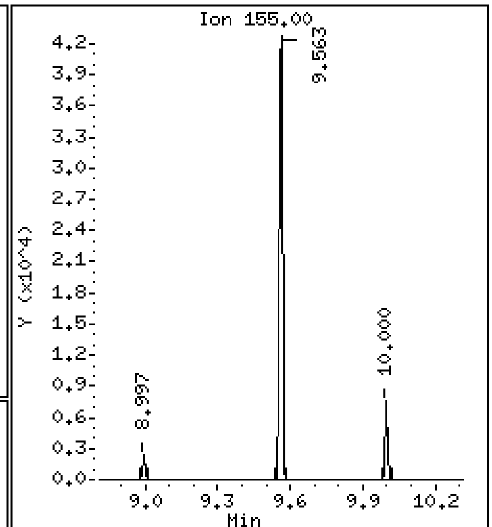
97 1,2-Dibromo-3-chloropropane Concentration: 51.2 ppb Review Code:

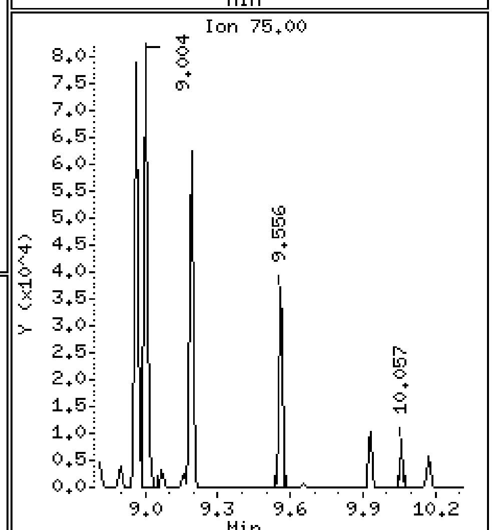


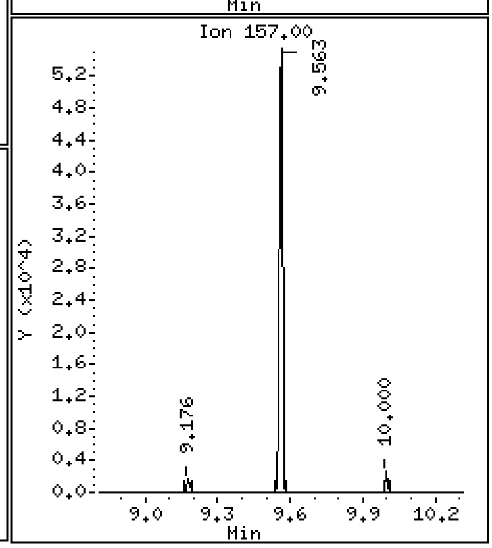












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

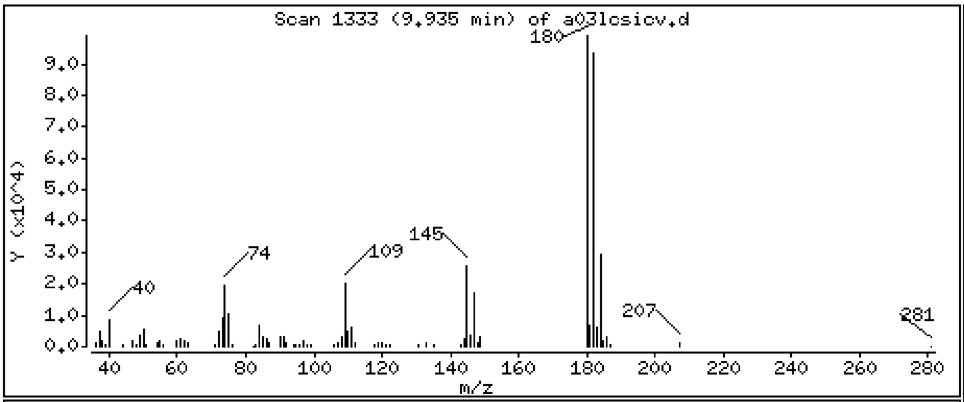
Column phase: DB-624

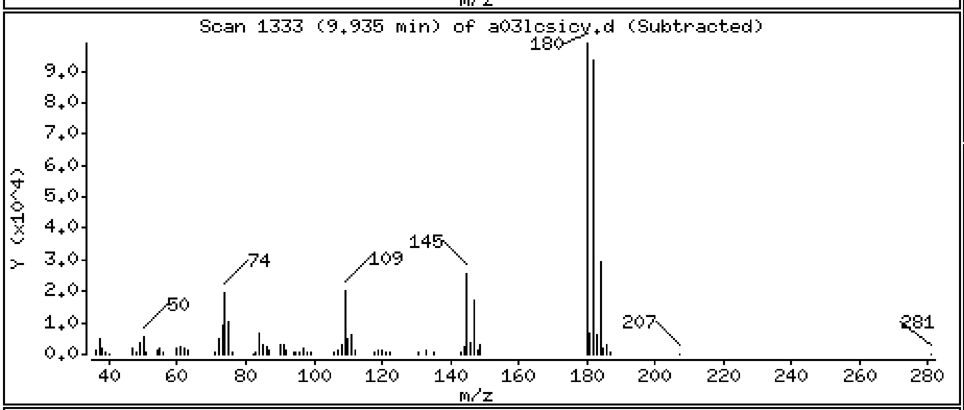
Column diameter: 0.18

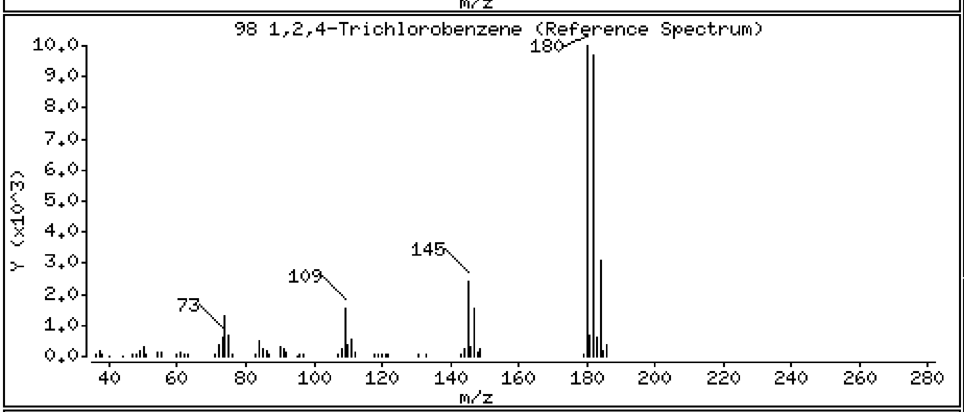
98 1,2,4-Trichlorobenzene

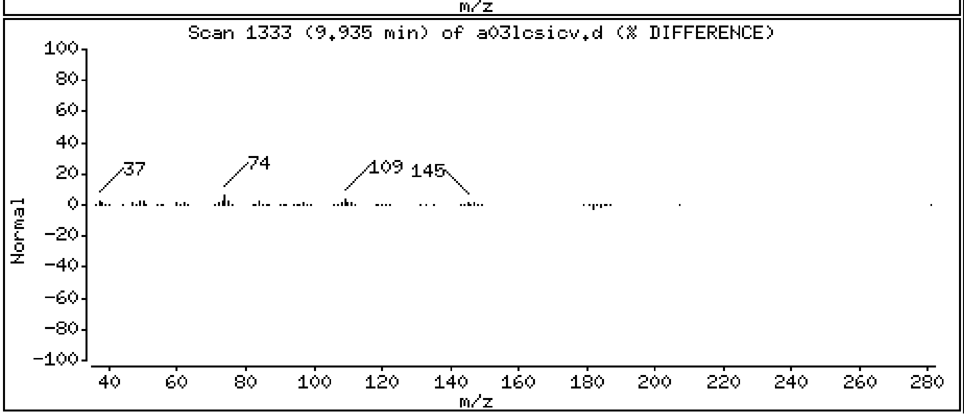
Concentration: 45.8 ppb

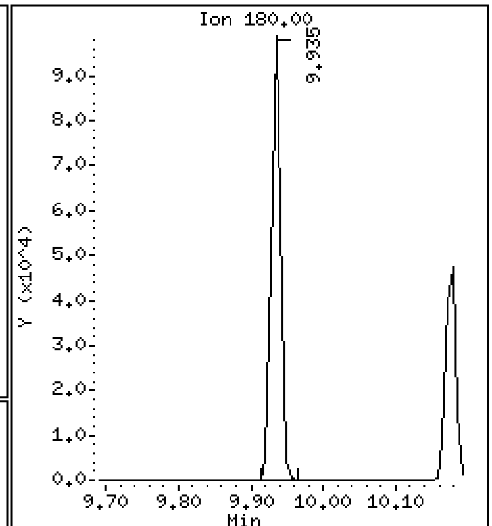
Review Code:

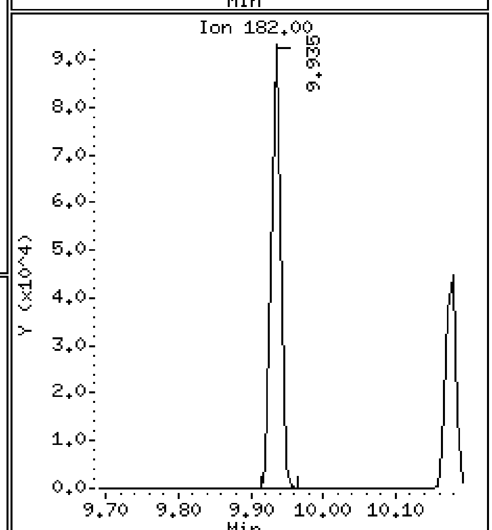


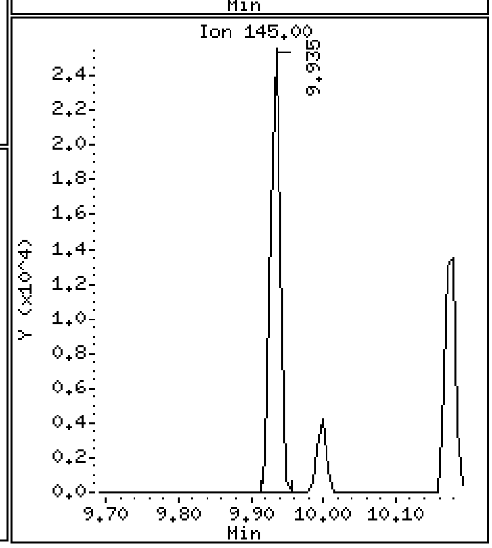












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

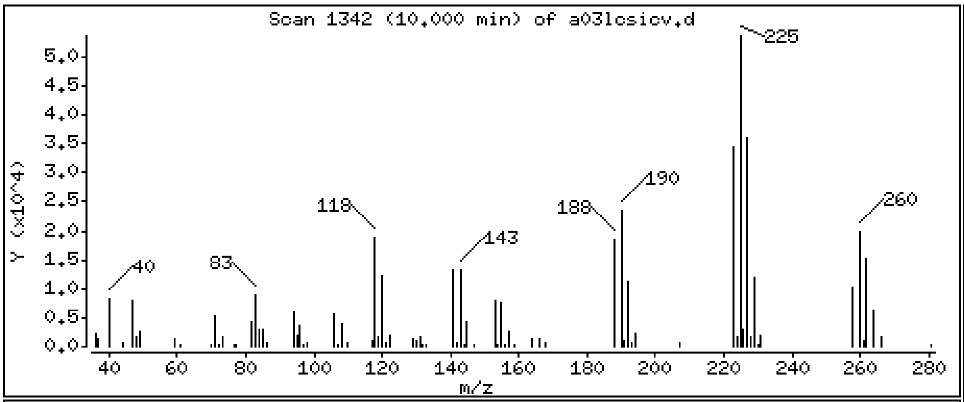
Column phase: DB-624

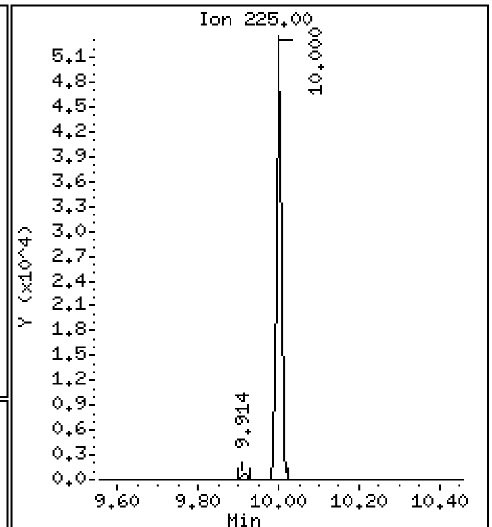
Column diameter: 0.18

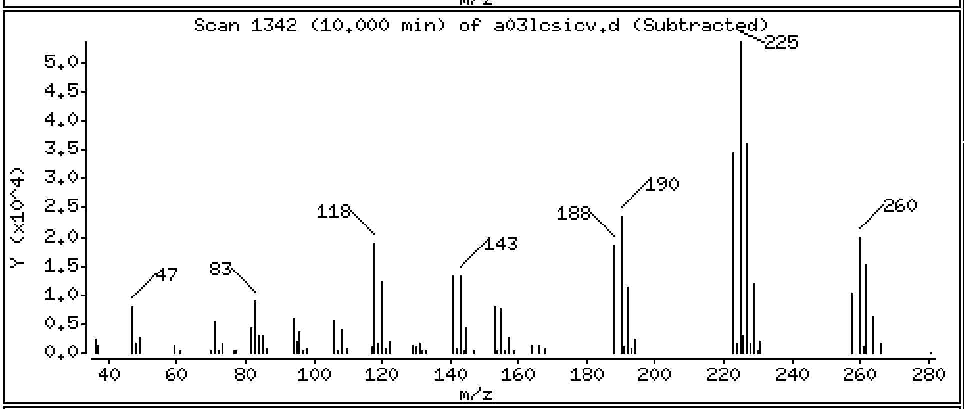
99 Hexachlorobutadiene

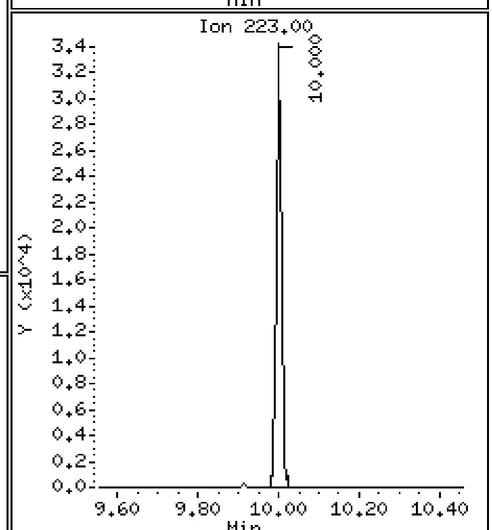
Concentration: 52.5 ppb

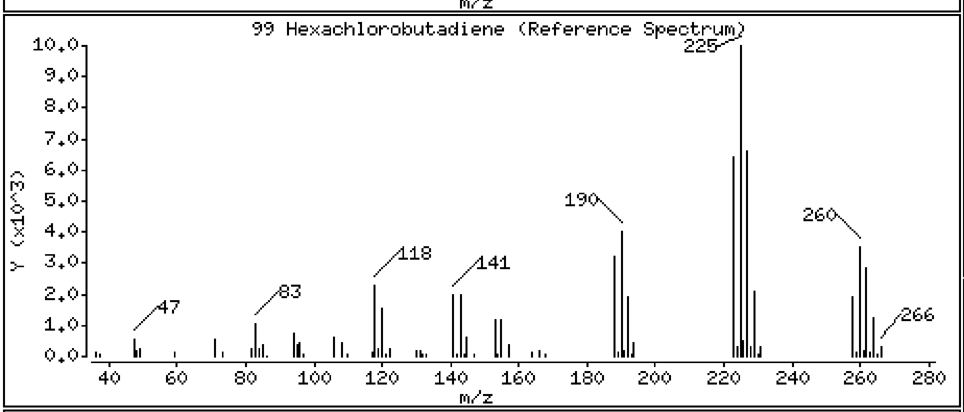
Review Code:

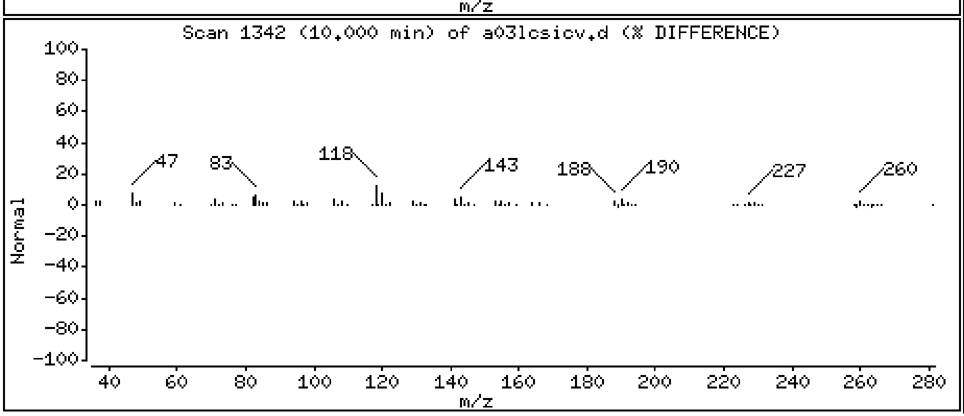


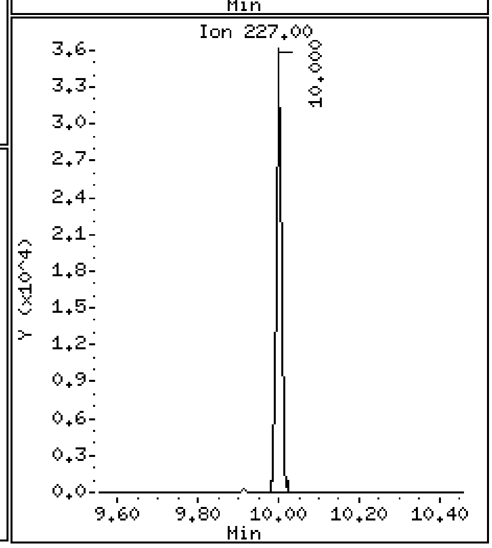












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Date : 23-JAN-2023 11:36

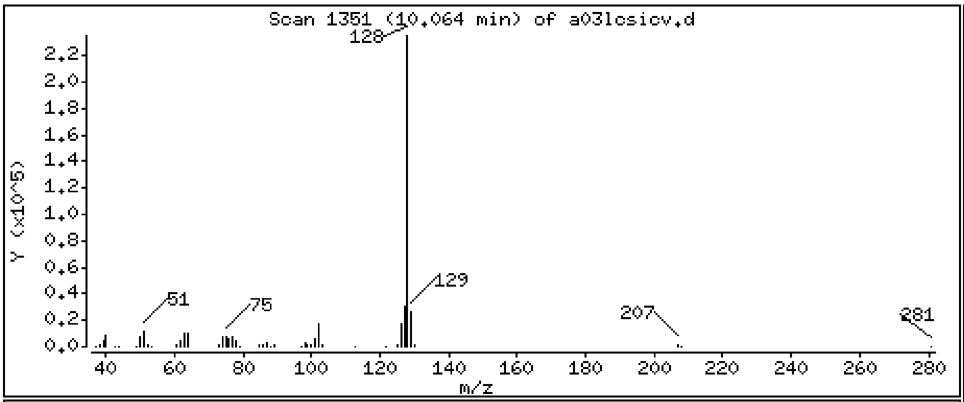
Client ID: Instrument: 50mvda.i

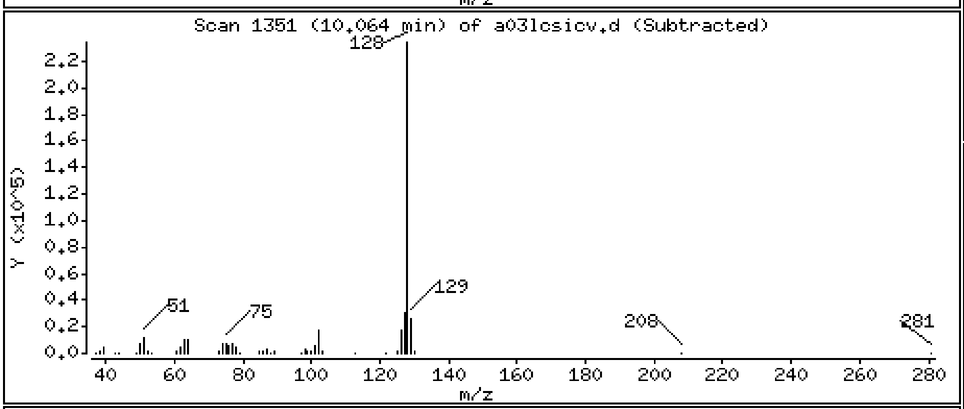
Sample Info: 8260-ICV

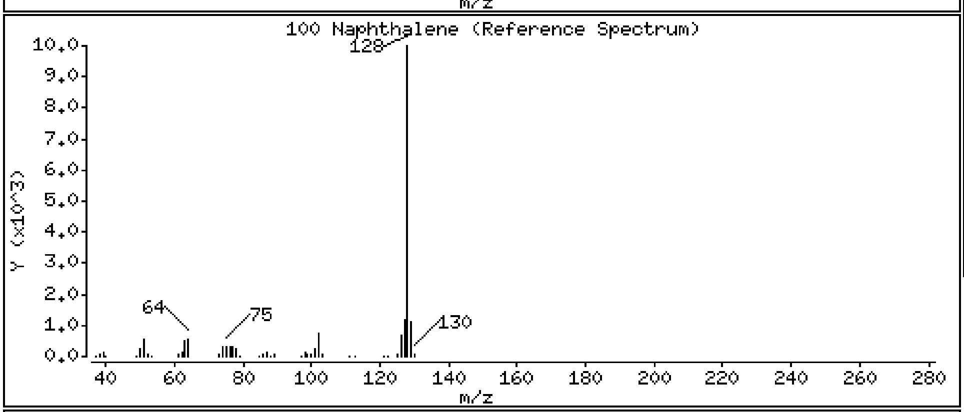
Purge Volume: 5.0 Operator: tkg

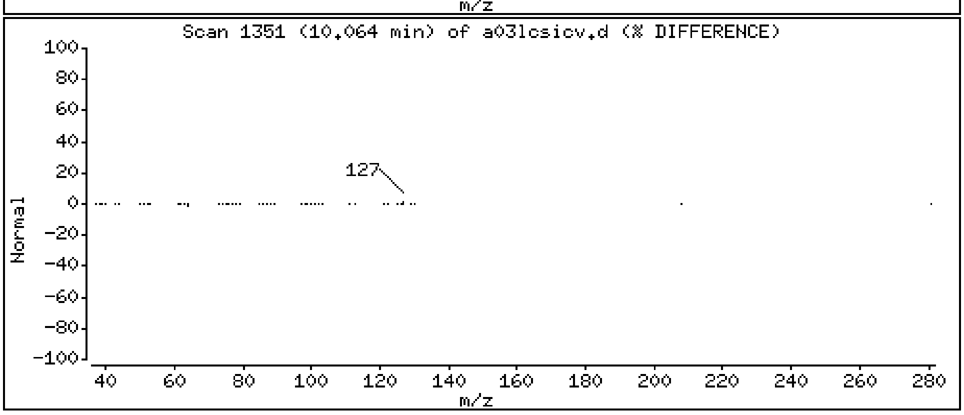
Column phase: DB-624 Column diameter: 0.18

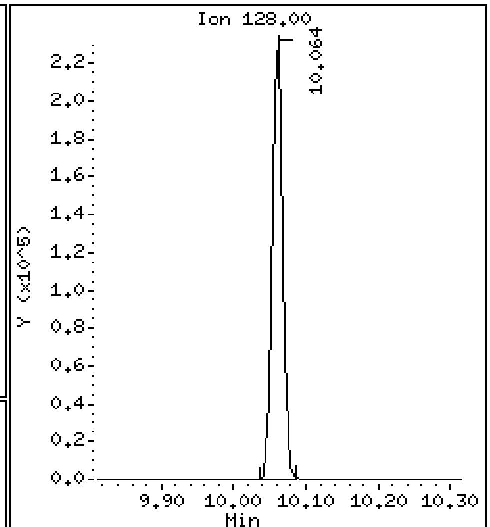
100 Naphthalene Concentration: 42.6 ppb Review Code:

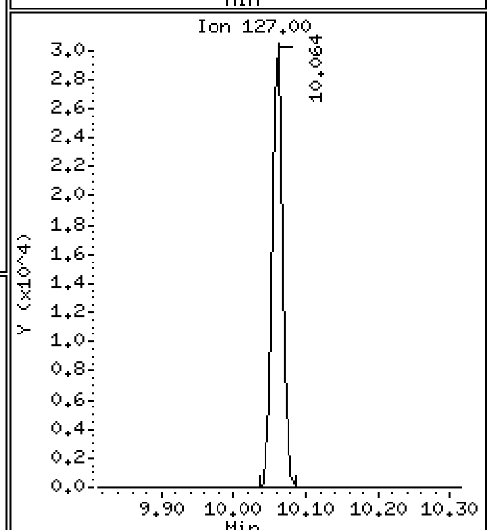












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0

Operator: tkg

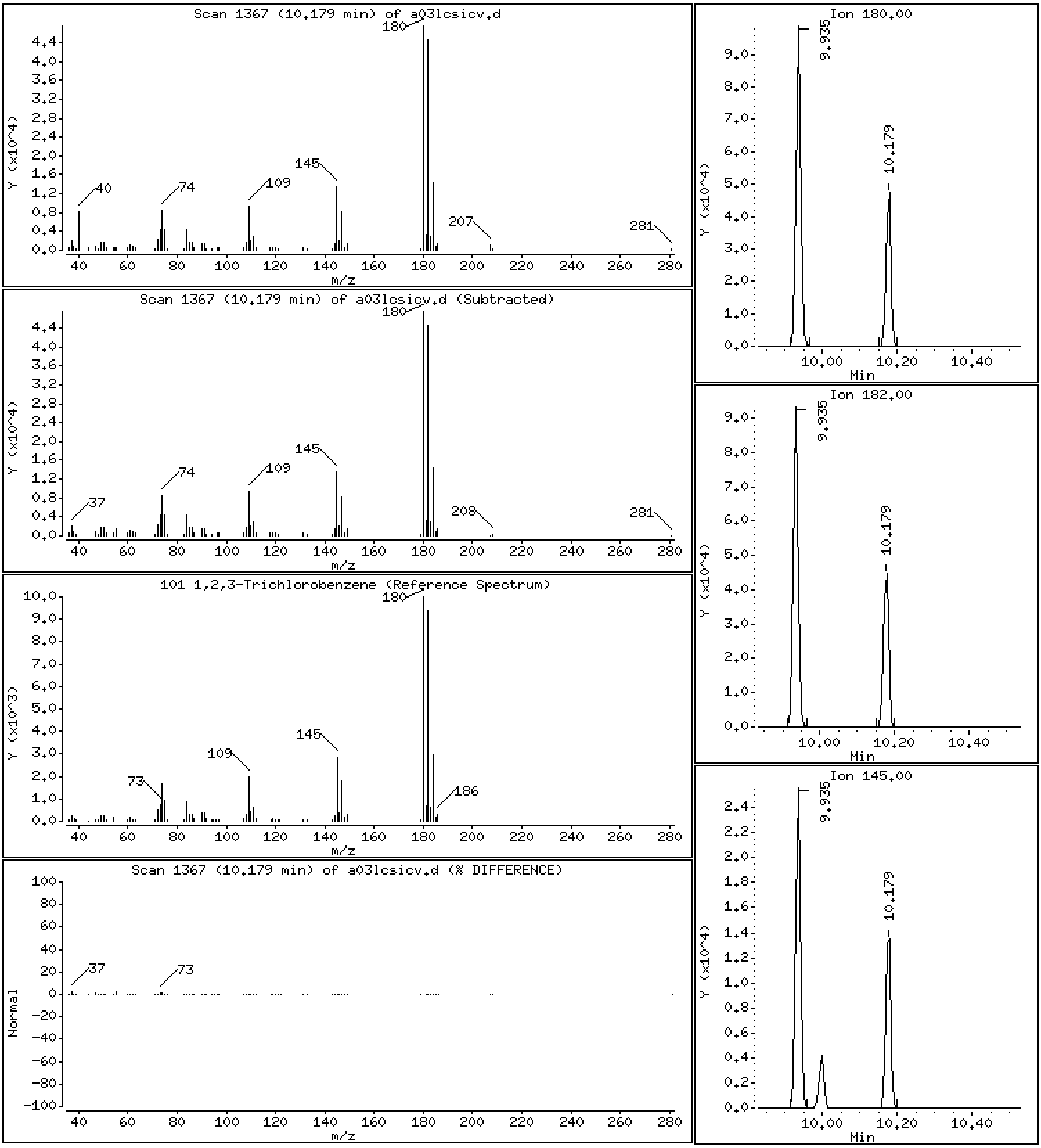
Column phase: DB-624

Column diameter: 0.18

101 1,2,3-Trichlorobenzene

Concentration: 47.4 ppb

Review Code:



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Date : 23-JAN-2023 11:36

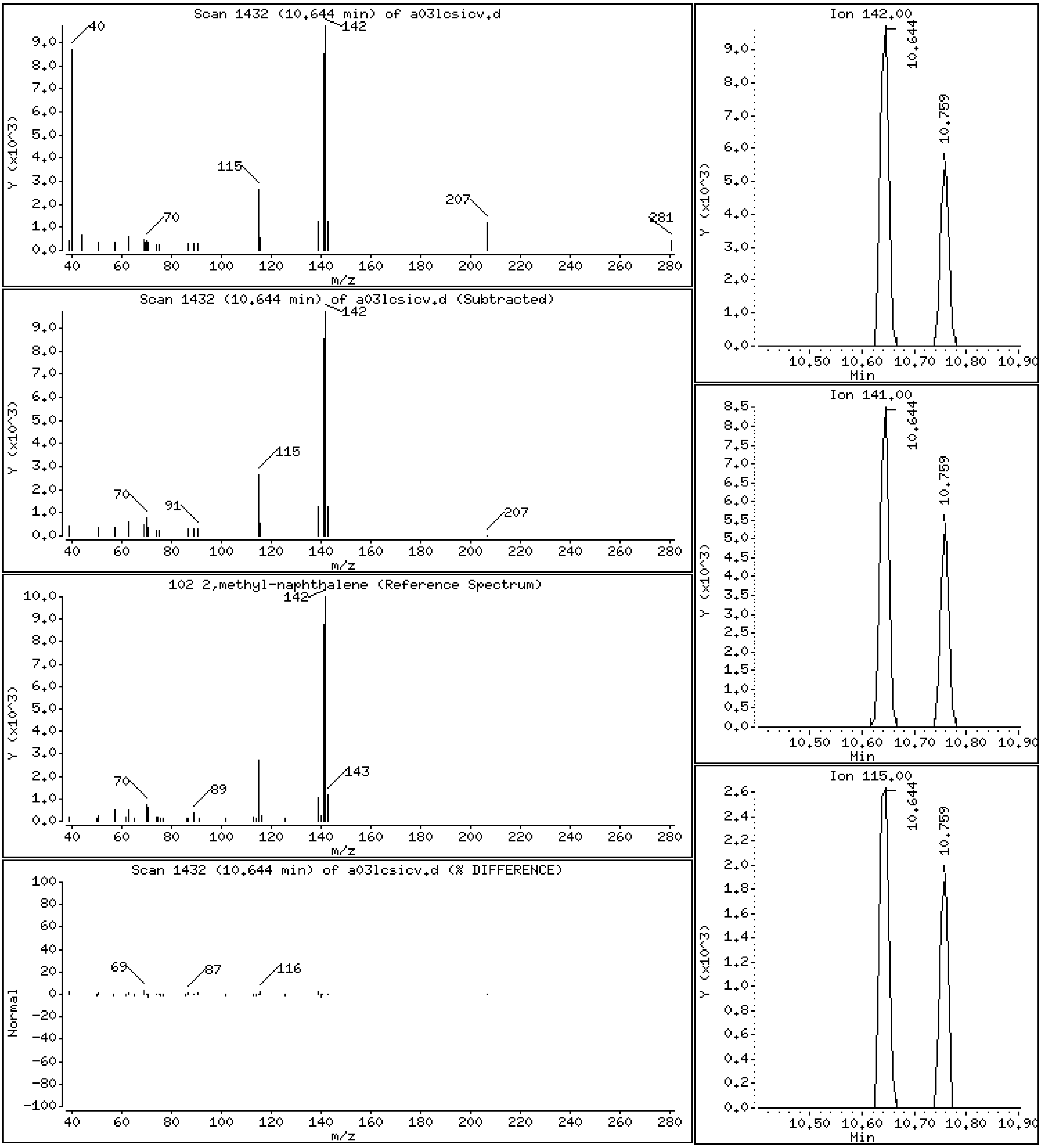
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

102 2,methyl-naphthalene Concentration: 40.4 ppb Review Code:



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Date : 23-JAN-2023 11:36

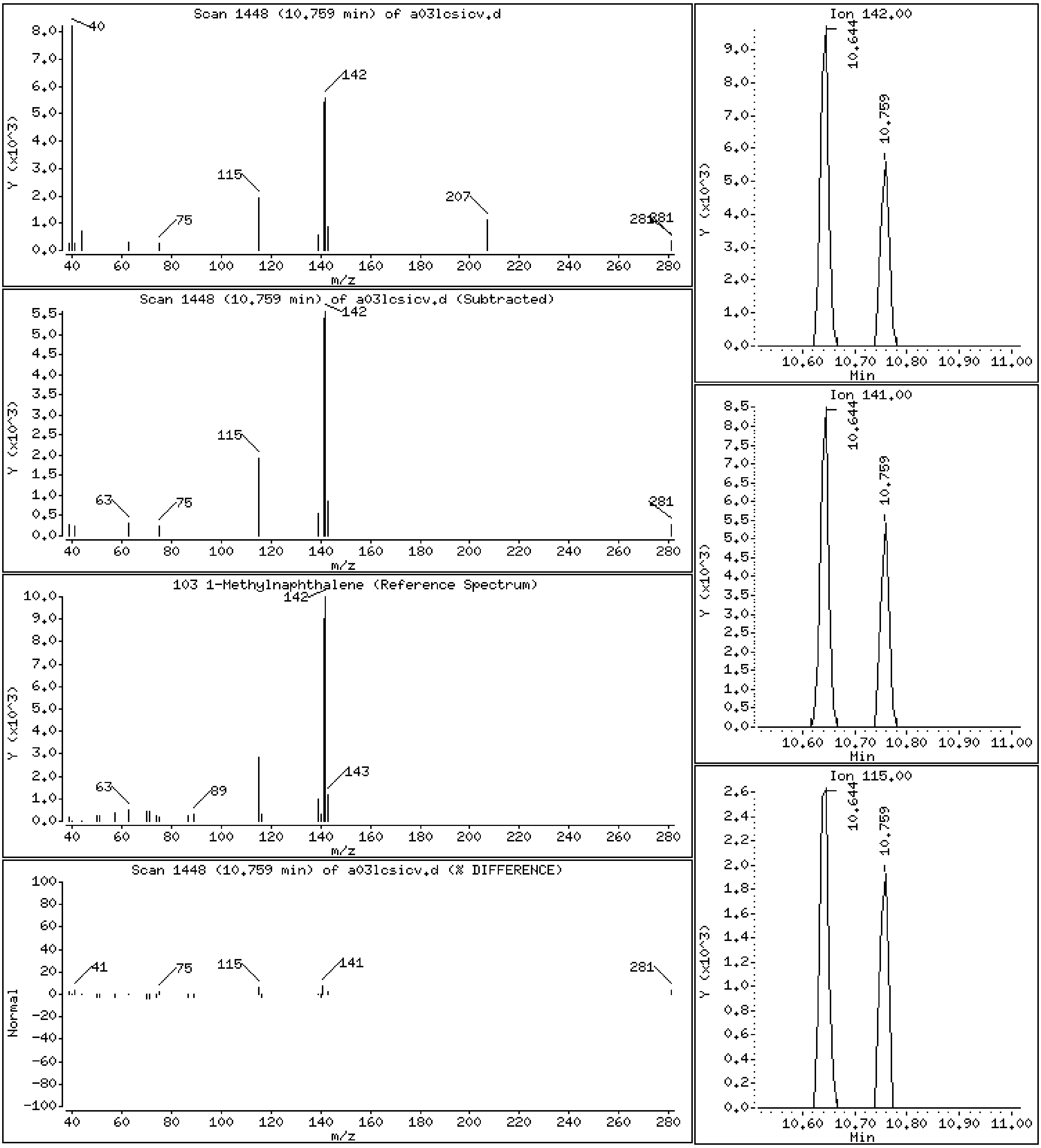
Client ID: Instrument: 50mvda.i

Sample Info: 8260-ICV

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

103 1-Methylnaphthalene Concentration: 43.7 ppb Review Code:



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Date : 23-JAN-2023 11:36

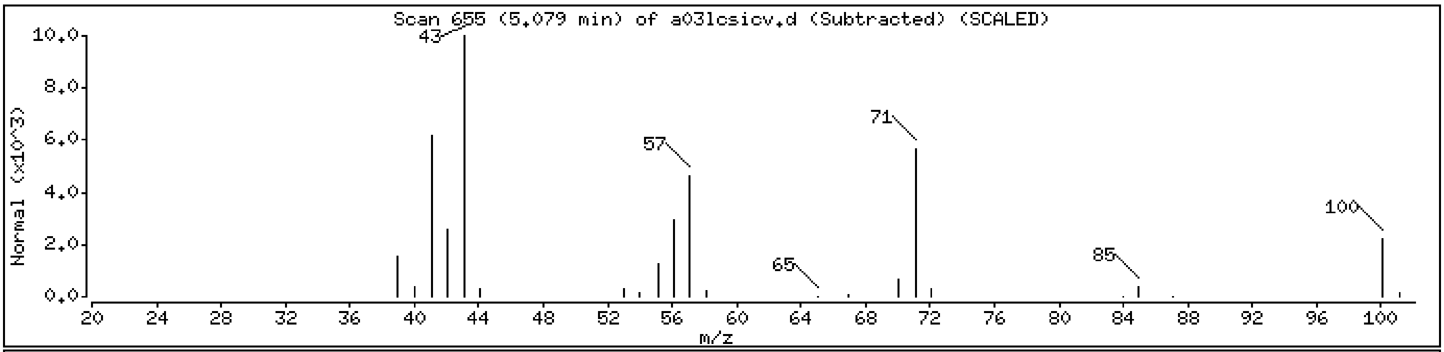
Client ID: Instrument: 50mvda.i

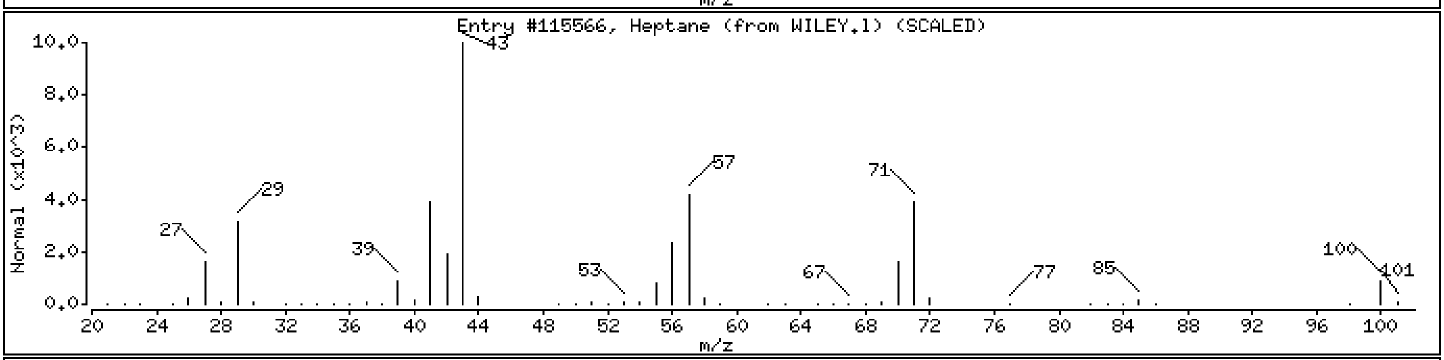
Sample Info: 8260-ICV

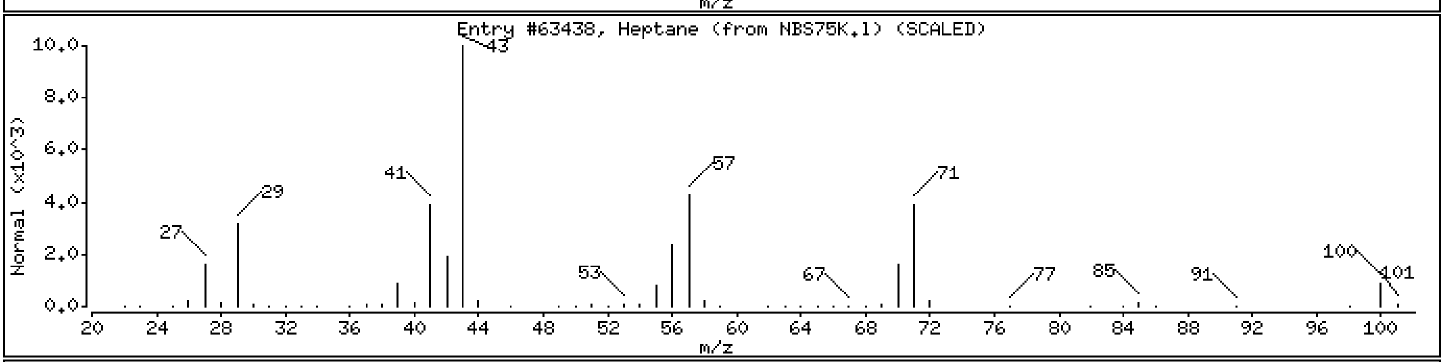
Purge Volume: 5.0 Operator: tkg

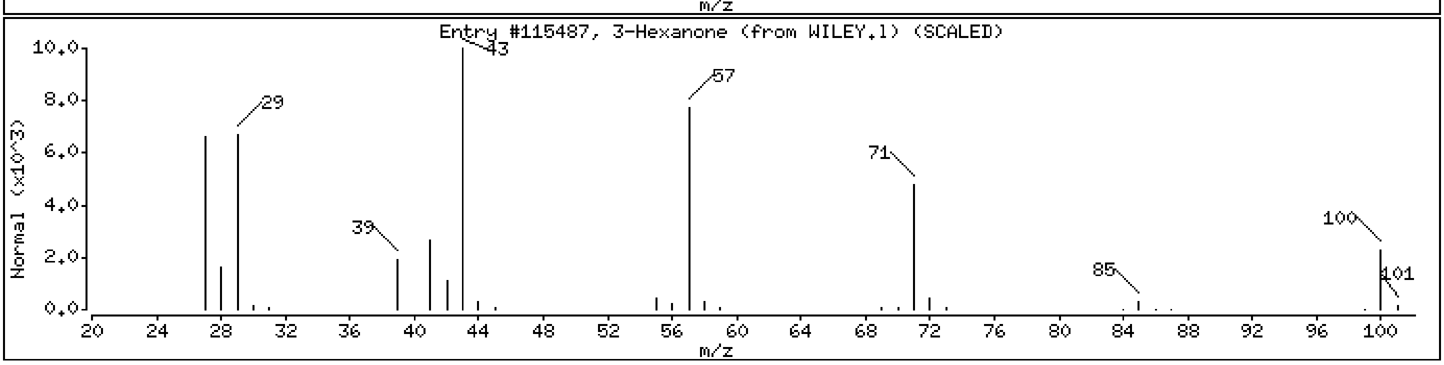
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane	142-82-5	WILEY.l	115566	91	C7H16	100
Heptane	142-82-5	NBS75K.l	63438	91	C7H16	100
3-Hexanone	589-38-8	WILEY.l	115487	52	C6H12O	100









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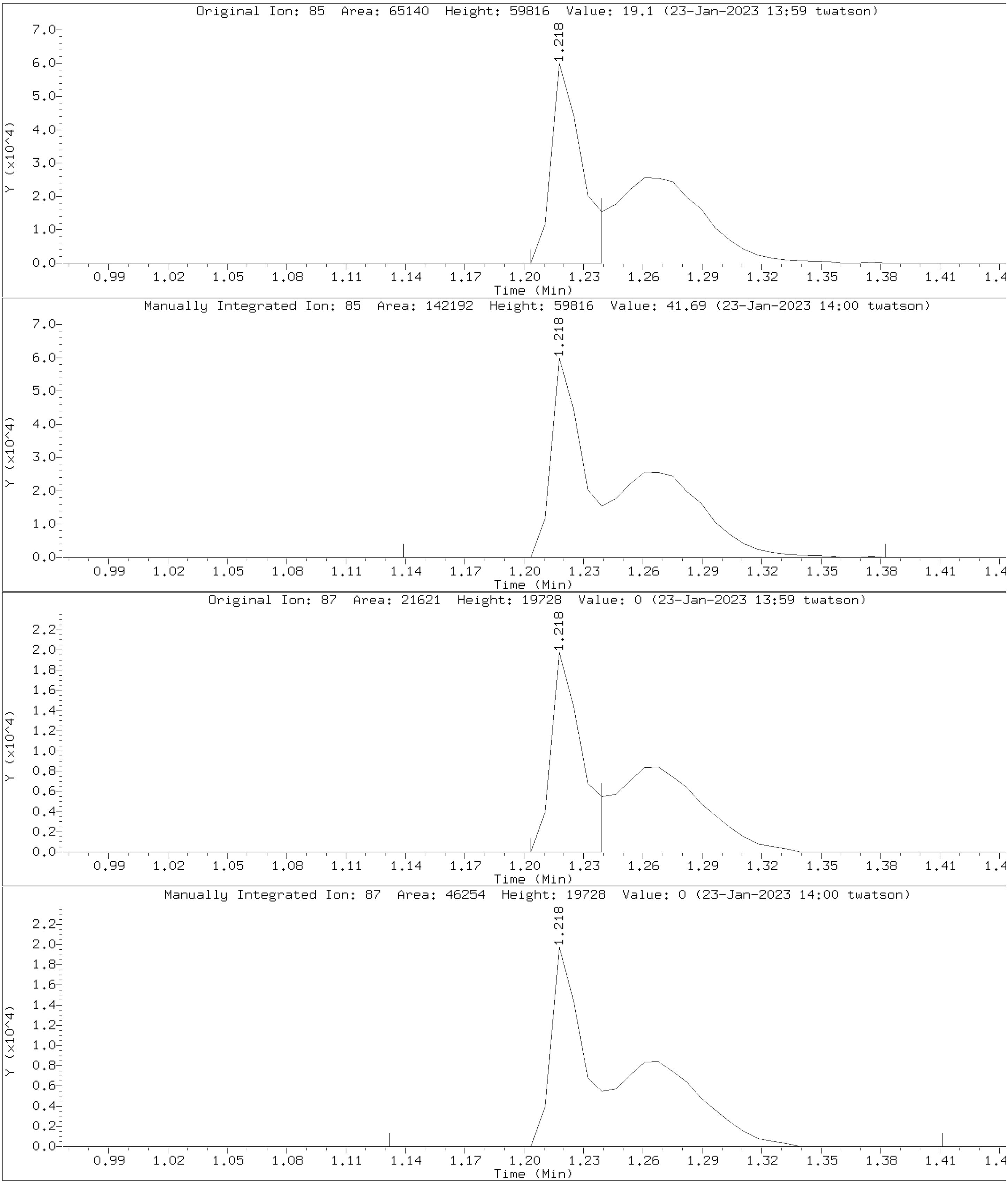
Injection Date: 23-JAN-2023 11:36
Instrument: 50mvda.i
Lab Sample ID:

Compound: Dichlorodifluoromethane   Review Code: LT
CAS Number: 460-00-4



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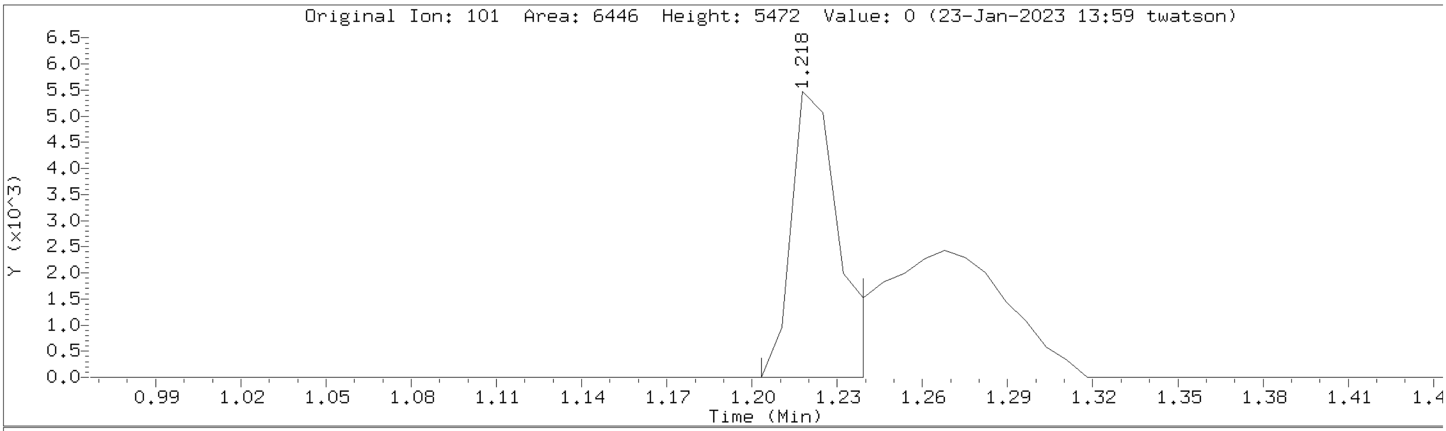
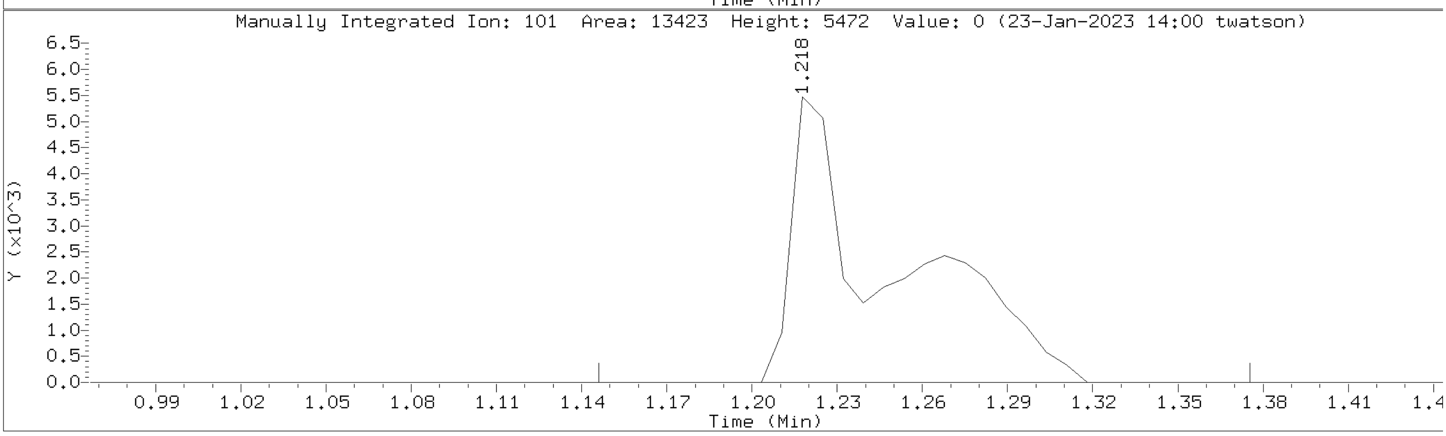
Lab Sample ID:





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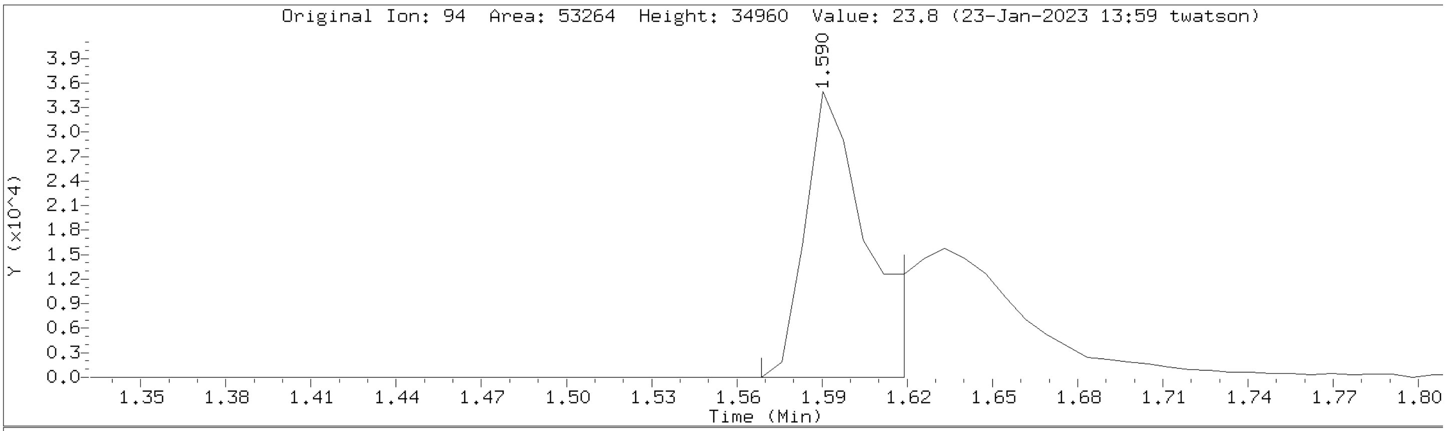
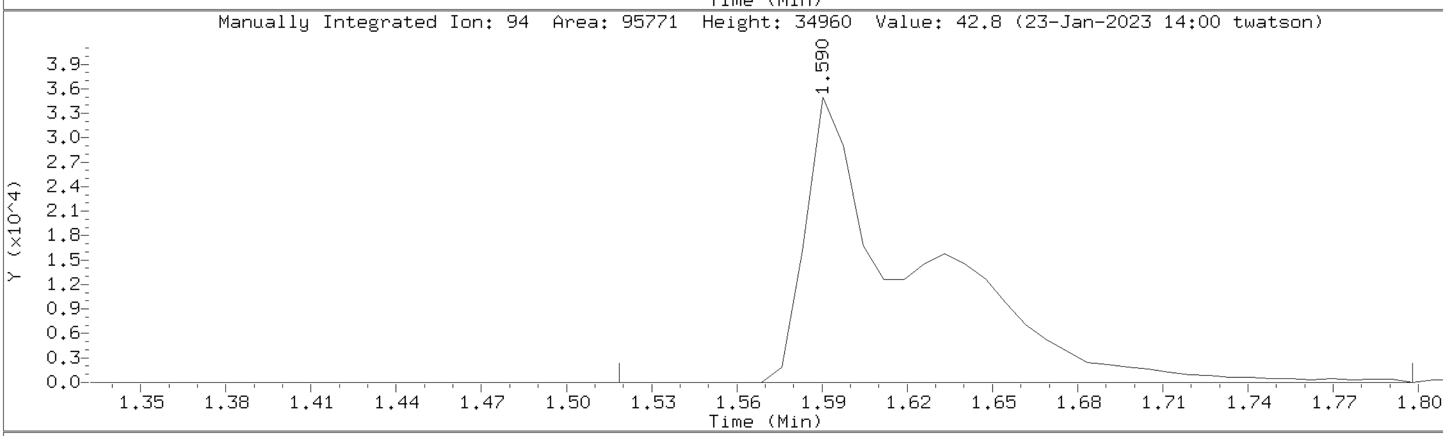
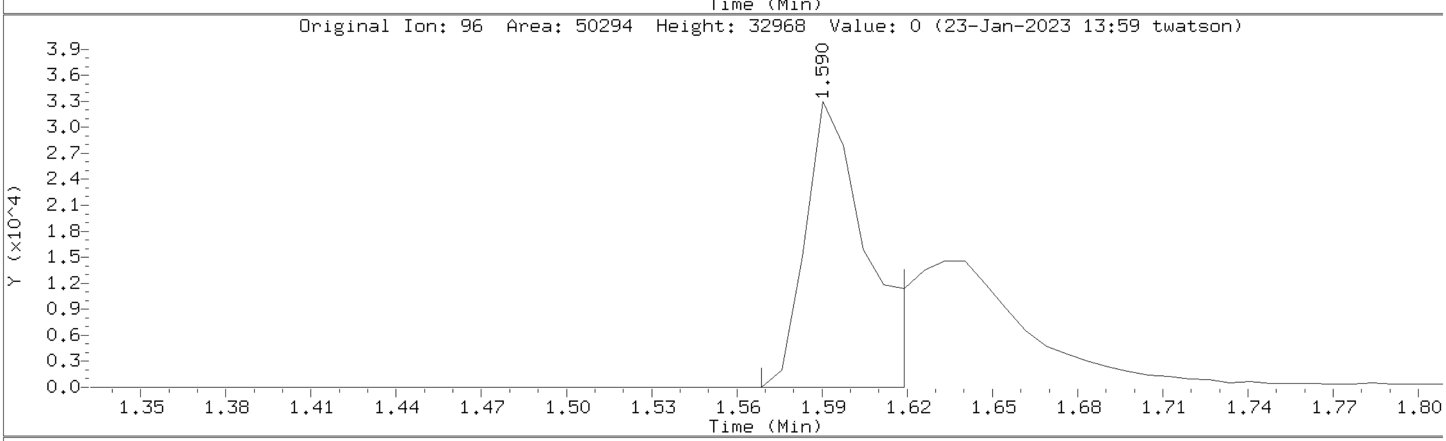
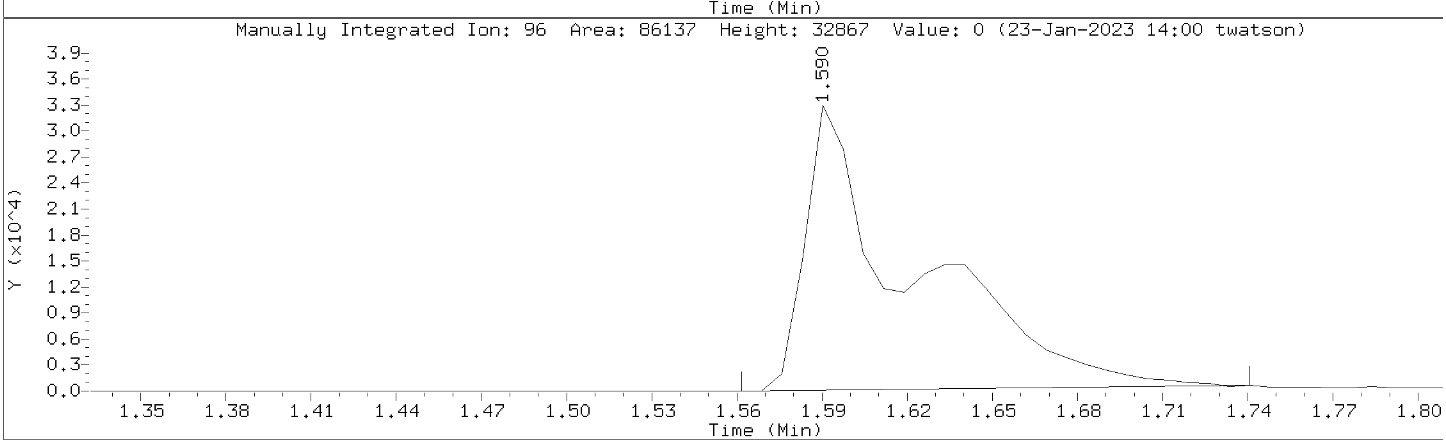
Injection Date: 23-JAN-2023 11:36
Instrument: 50mvda.i
Lab Sample ID:

Compound: Bromomethane   Review Code: LT
CAS Number: 74-83-9









Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b00bfb.d

Date : 16-JAN-2023 13:49

Client ID: 8260-TUNE

Instrument: 50mvcb.i

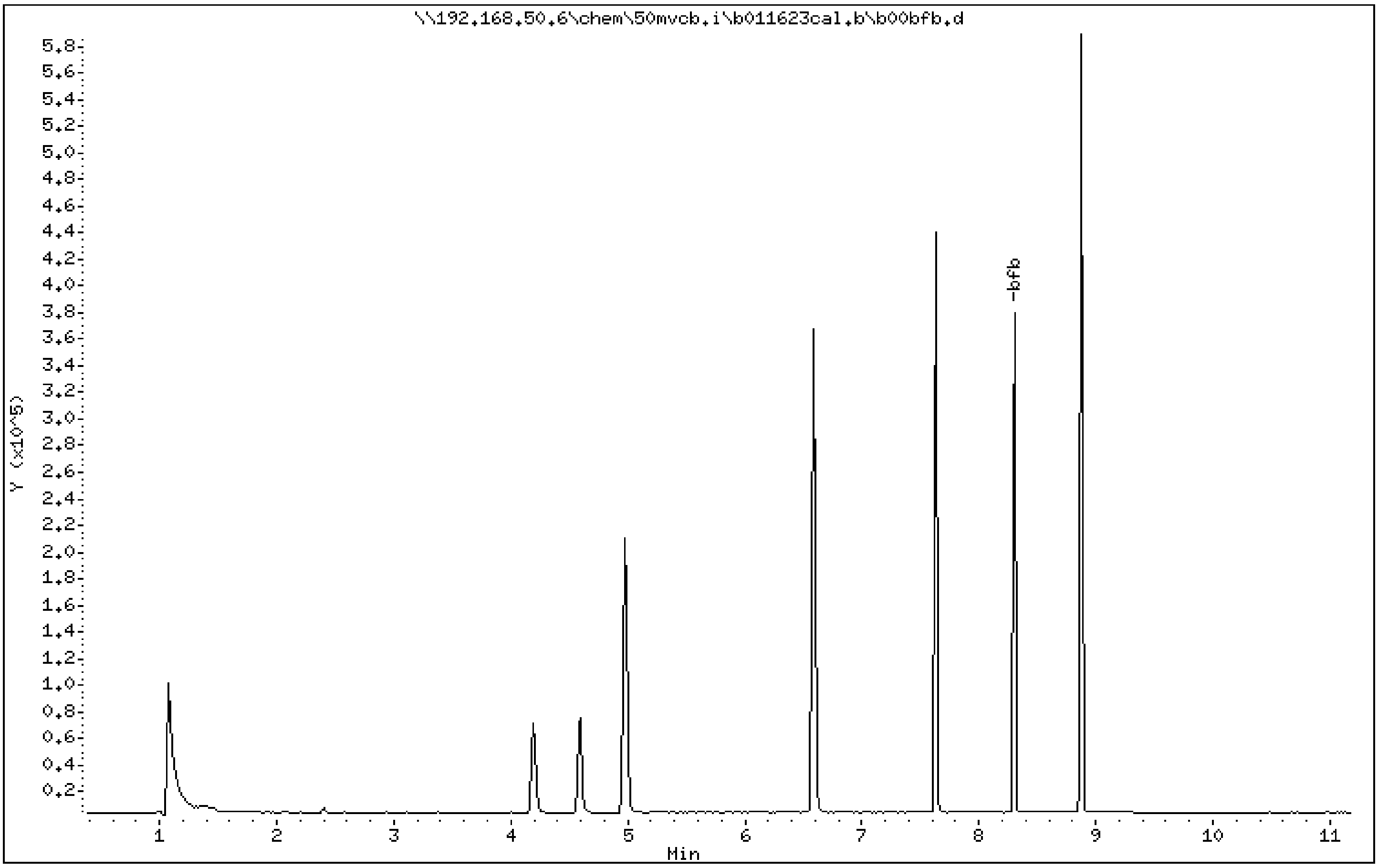
Sample Info: 8260-TUNE,335771:0

Volume Injected (uL): 1.0

Operator: DAP

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mvcb.i\b011623cal.b\b00bfb.d

Date : 16-JAN-2023 13:49

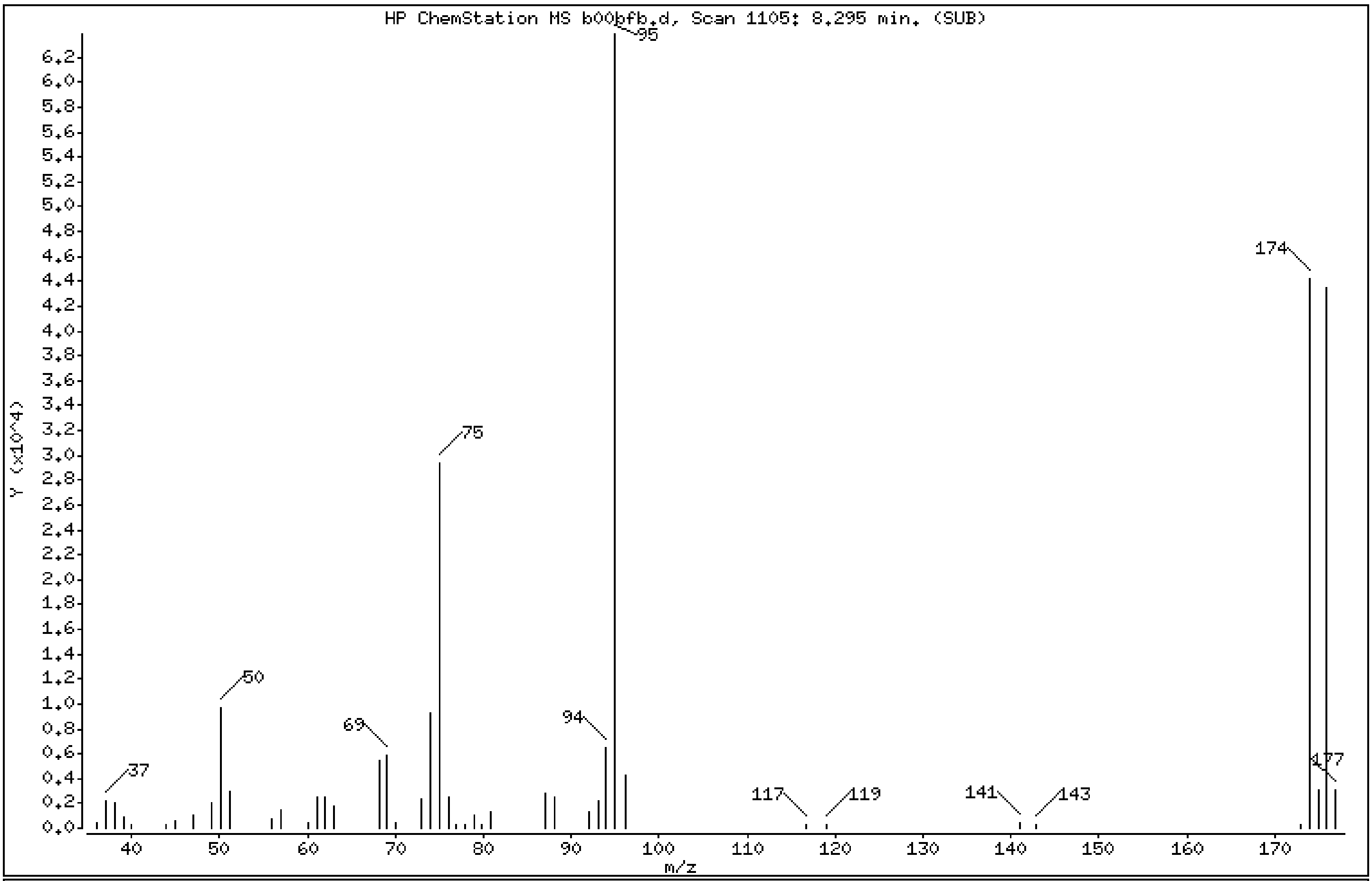
Client ID: 8260-TUNE Instrument: 50mvcb.i

Sample Info: 8260-TUNE,335771:0

Volume Injected (uL): 1.0 Operator: DAP

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	15.12
75	30.00 - 60.00% of mass 95	46.09
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.50 (0.73)
174	50.00 - 100.00% of mass 95	69.25
175	5.00 - 9.00% of mass 174	4.91 (7.09)
176	95.00 - 101.00% of mass 174	67.93 (98.10)
177	5.00 - 9.00% of mass 176	4.76 (7.00)

Date : 16-JAN-2023 13:49

Client ID: 8260-TUNE Instrument: 50mvcb.i

Sample Info: 8260-TUNE,335771:0

Volume Injected (uL): 1.0 Operator: DAP

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: HP ChemStation MS b00bfb.d, Scan 1105: 8.295 min. (SUB)
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	461	57.00	1433	76.90	359	116.80	277
37.10	2255	60.00	459	78.00	282	118.90	293
38.10	1994	61.10	2441	78.90	1000	141.00	397
39.10	830	62.00	2423	79.90	334	142.90	350
40.00	222	63.00	1773	80.90	1249	172.90	322
44.00	348	68.10	5422	87.00	2820	173.90	44224
45.00	524	69.10	5823	88.00	2502	174.90	3134
47.10	974	70.00	387	92.00	1378	175.90	43384
49.00	2014	73.00	2325	93.00	2219	176.90	3039
50.10	9659	74.00	9272	94.00	6526		
51.10	2990	75.00	29432	95.00	63864		
56.00	759	76.00	2551	96.10	4261		

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b01bfb.d

Date : 24-JAN-2023 12:59

Client ID: 8260-TUNE

Instrument: 50mvcb.i

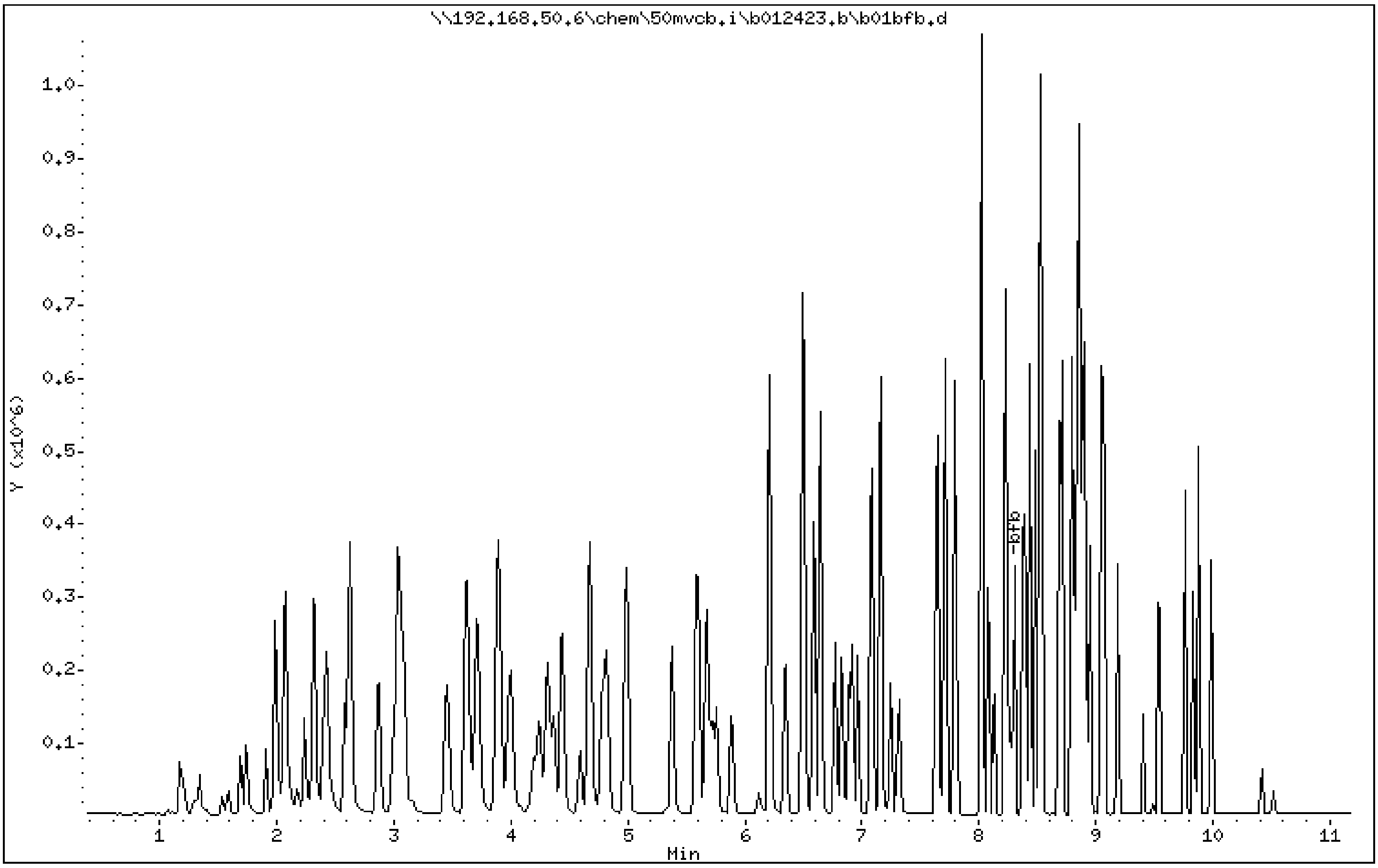
Sample Info: 8260-TUNE,335771:0

Volume Injected (uL): 1.0

Operator: tkg

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b01bfb.d

Date : 24-JAN-2023 12:59

Client ID: 8260-TUNE

Instrument: 50mvcb.i

Sample Info: 8260-TUNE,335771:0

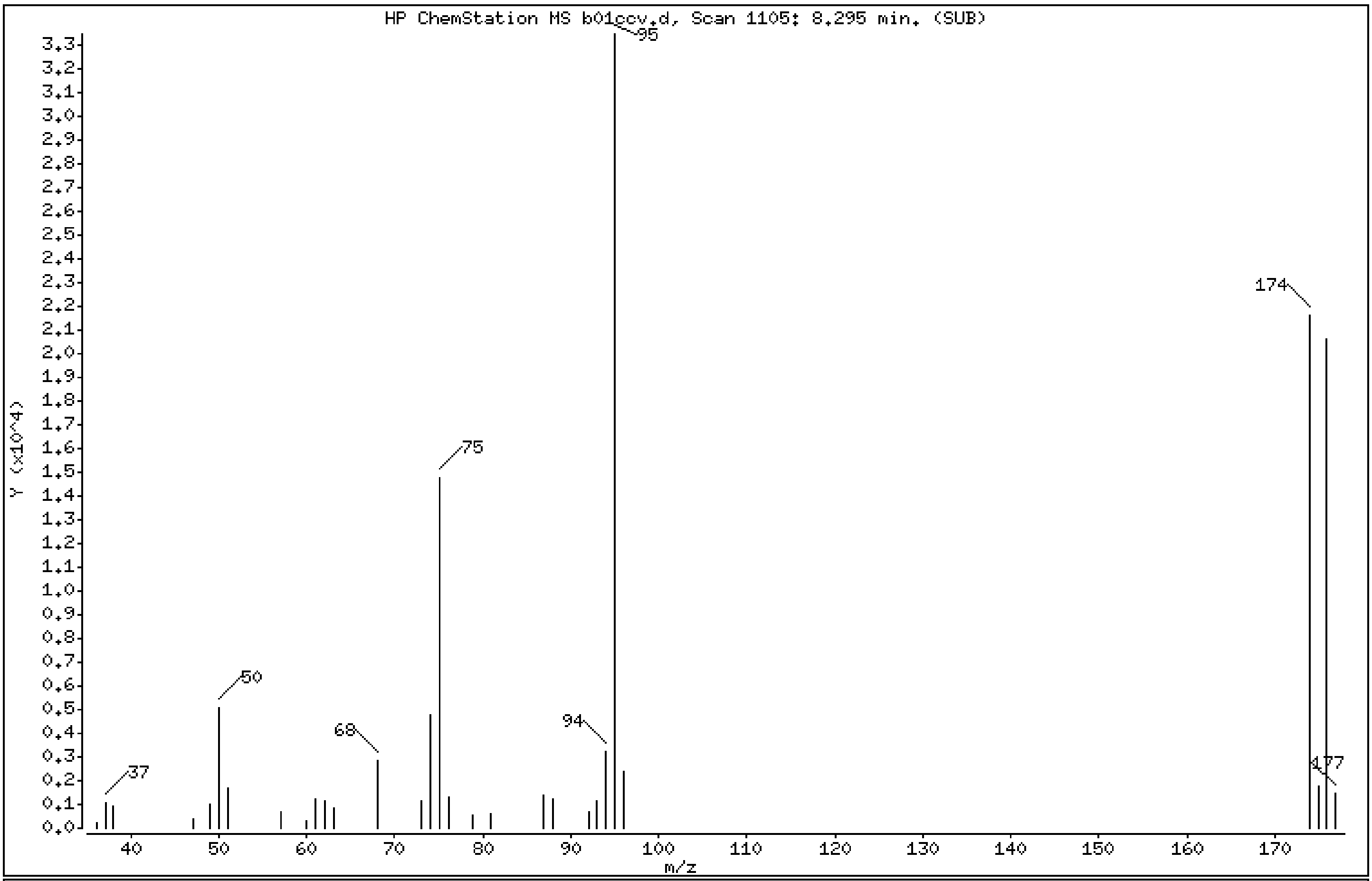
Volume Injected (uL): 1.0

Operator: tkg

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	15.07
75	30.00 - 60.00% of mass 95	44.19
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	64.60
175	5.00 - 9.00% of mass 174	5.27 (8.16)
176	95.00 - 101.00% of mass 174	61.50 (95.19)
177	5.00 - 9.00% of mass 176	4.27 (6.95)

Date : 24-JAN-2023 12:59

Client ID: 8260-TUNE Instrument: 50mvcb.i

Sample Info: 8260-TUNE,335771:0

Volume Injected (uL): 1.0 Operator: tkg

Column phase: Column diameter: 2.00

Data File: b01bfb.d
Spectrum: HP ChemStation MS b01ccv.d, Scan 1105: 8.295 min. (SUB)
Location of Maximum: 95.00
Number of points: 30

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	252	60.00	305	76.10	1276	95.00	33496
37.10	1095	61.00	1210	78.90	554	96.00	2364
38.10	941	62.10	1148	80.90	621	173.90	21640
47.10	364	63.00	860	87.00	1390	174.90	1765
49.00	968	68.00	2832	88.00	1203	175.90	20600
50.10	5049	73.00	1149	92.00	712	176.90	1431
51.10	1685	74.00	4750	93.00	1185		
57.00	677	75.10	14803	94.00	3216		

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a00bfb.d Page 1

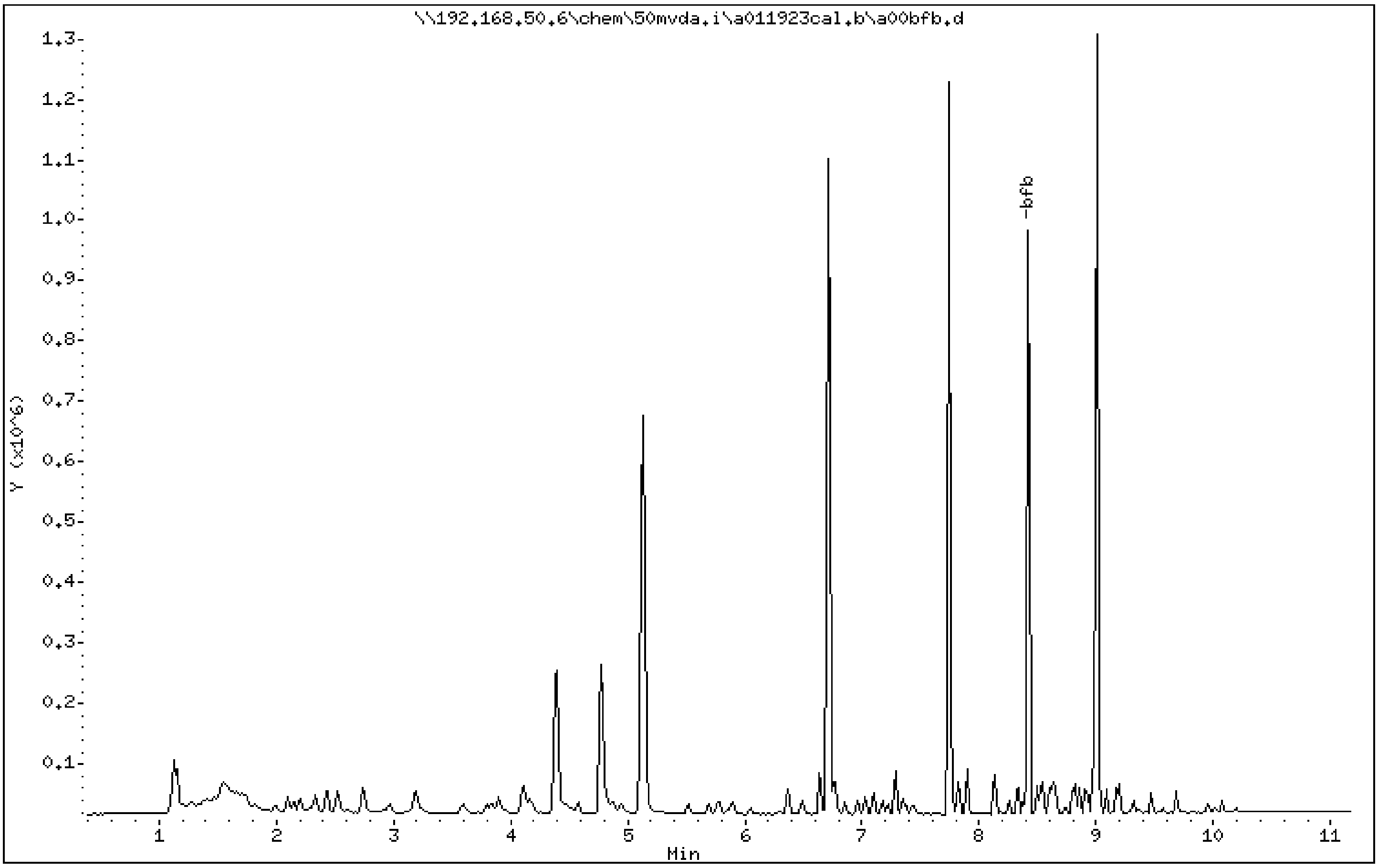
Date : 19-JAN-2023 11:45

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\a00bfb.d

Date : 19-JAN-2023 11:45

Client ID: 8260-TUNE

Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

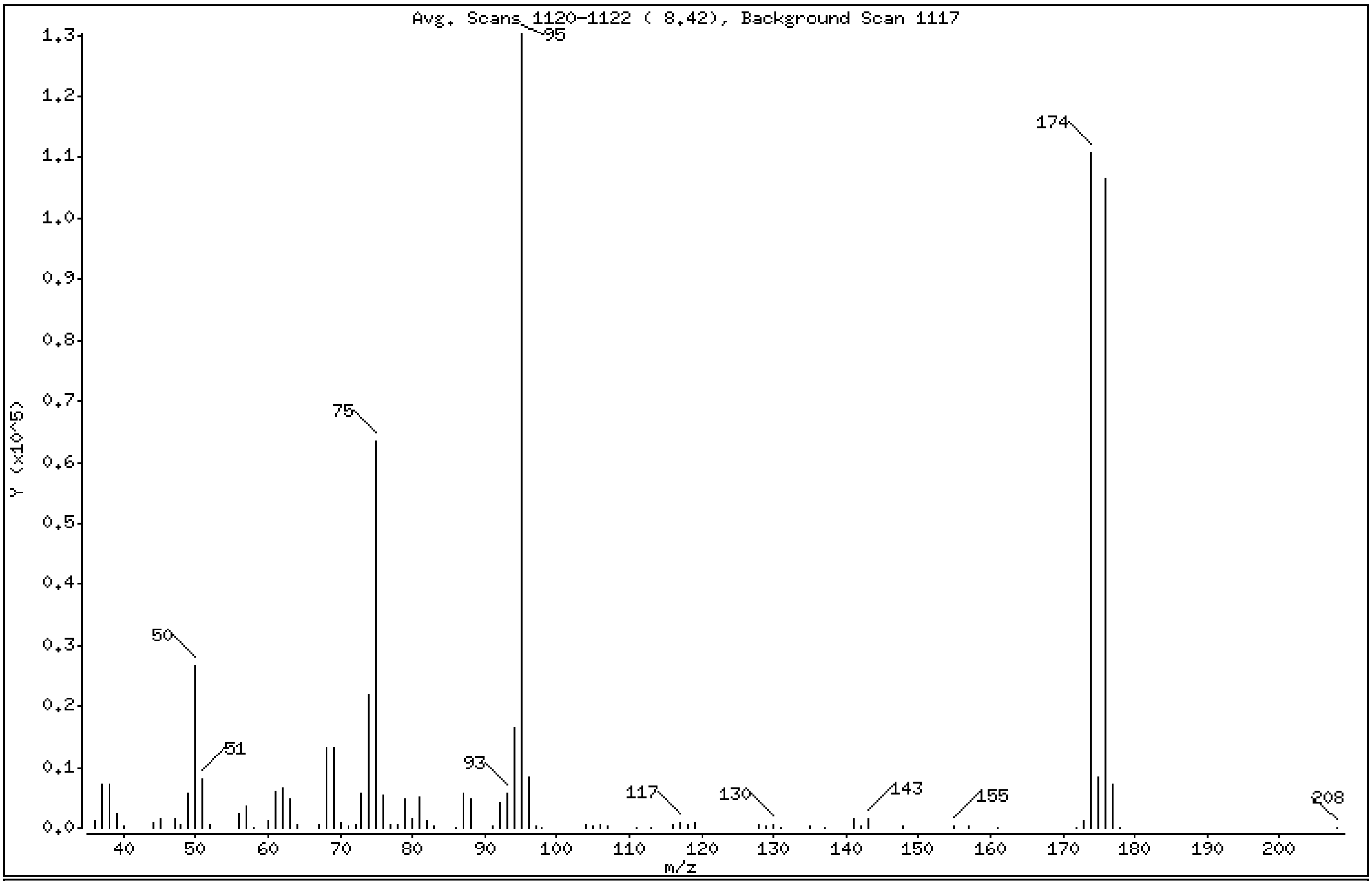
Volume Injected (uL): 1.0

Operator: ala

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	20.54
75	30.00 - 60.00% of mass 95	48.84
96	5.00 - 9.00% of mass 95	6.38
173	Less than 2.00% of mass 174	0.96 (1.13)
174	50.00 - 100.00% of mass 95	85.01
175	5.00 - 9.00% of mass 174	6.50 (7.65)
176	95.00 - 101.00% of mass 174	81.84 (96.27)
177	5.00 - 9.00% of mass 176	5.40 (6.60)

Date : 19-JAN-2023 11:45

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1120-1122 (8.42), Background Scan 1117
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1207	67.00	458	92.00	4071	135.00	281
37.00	7327	68.00	13156	93.00	5827	137.00	131
38.00	7146	69.00	13196	94.00	16504	141.00	1490
39.00	2498	70.00	835	95.00	130176	142.00	196
40.00	200	71.00	194	96.00	8306	143.00	1587
44.00	850	72.00	608	97.00	426	148.00	300
45.00	1552	73.00	5697	98.00	40	155.00	287
47.00	1640	74.00	21888	104.00	725	157.00	169
48.00	743	75.00	63576	105.00	306	161.00	100
49.00	5598	76.00	5320	106.00	647	172.00	112
50.00	26736	77.00	590	107.00	180	173.00	1255
51.00	7976	78.00	540	111.00	86	174.00	110664
52.00	512	79.00	4918	113.00	84	175.00	8464
56.00	2280	80.00	1397	116.00	460	176.00	106536
57.00	3696	81.00	5085	117.00	958	177.00	7033
58.00	140	82.00	1121	118.00	515	178.00	96
60.00	1077	83.00	327	119.00	799	208.00	79
61.00	6109	86.00	88	128.00	466		
62.00	6459	87.00	5694	129.00	244		
63.00	4891	88.00	4931	130.00	522		
64.00	482	91.00	313	131.00	129		

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/a00bfb.d
Injection Date: 19-JAN-2023 11:45
Instrument: 50mvda.i
Lab Sample ID: 8260-TUNE
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\e00bfb.d Page 1

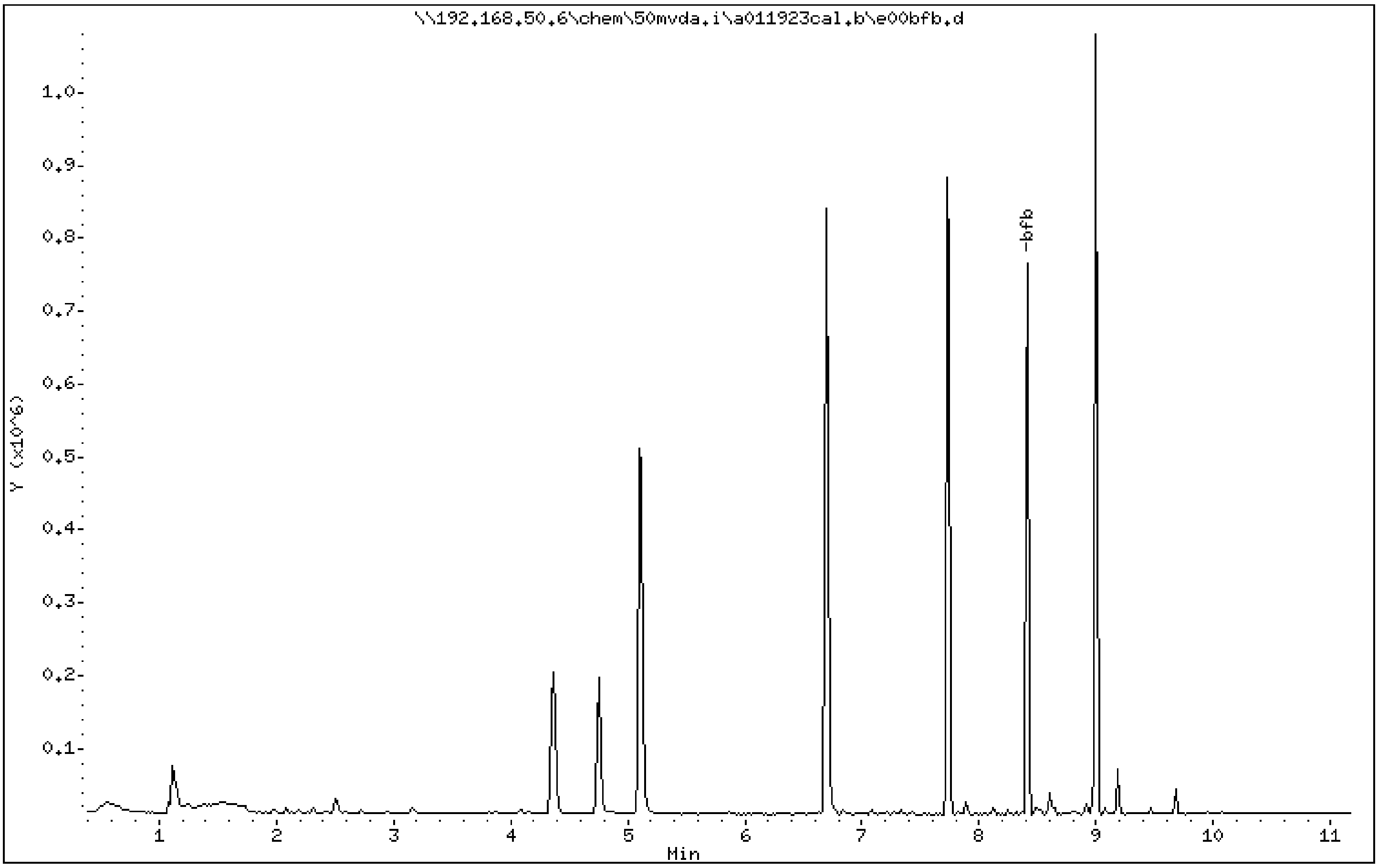
Date : 20-JAN-2023 13:37

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b\e00bfb.d

Date : 20-JAN-2023 13:37

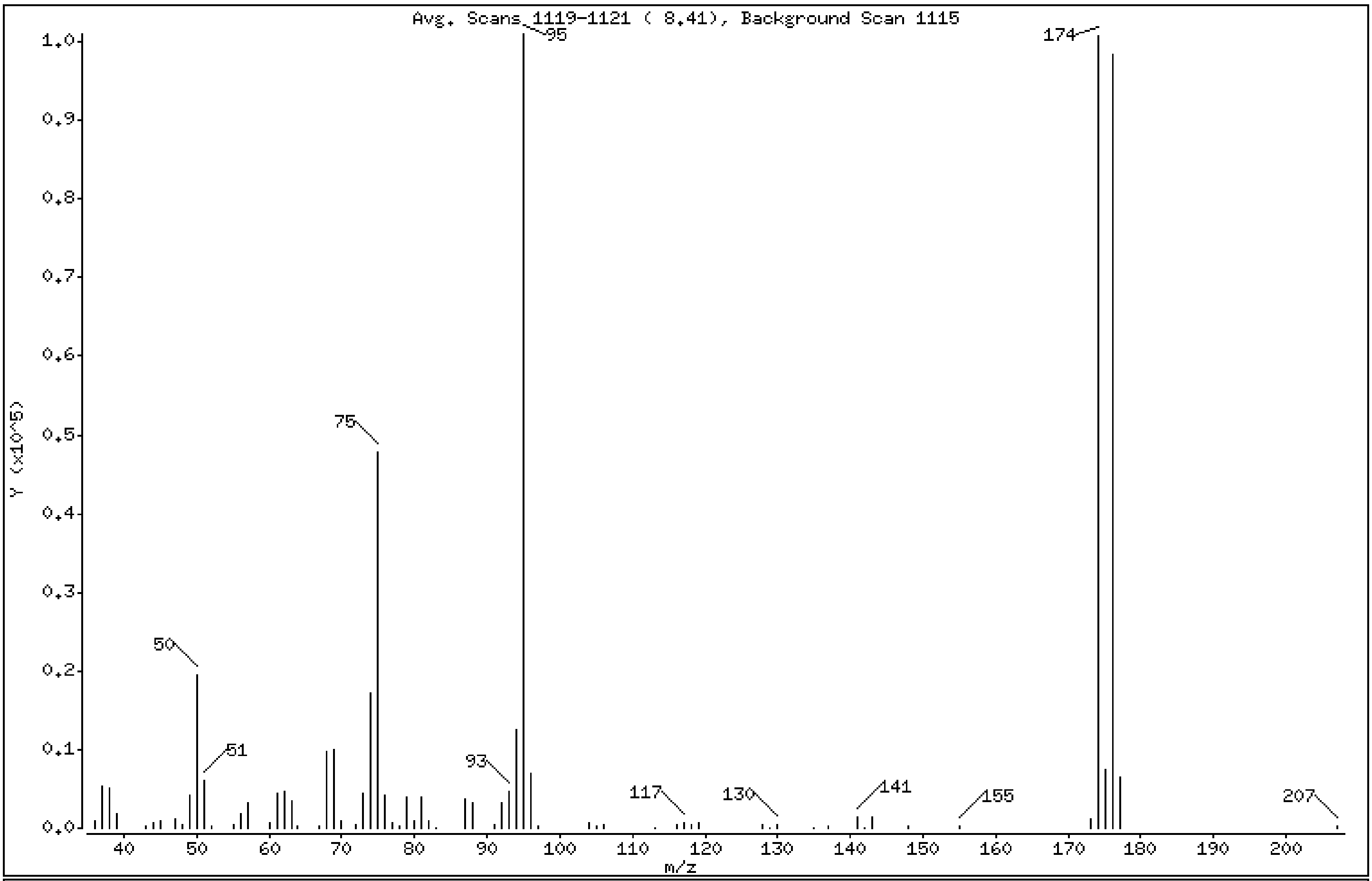
Client ID: 8260-TUNE   Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0   Operator: ala

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	19.26
75	30.00 - 60.00% of mass 95	47.44
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	1.12 (1.12)
174	50.00 - 100.00% of mass 95	99.84
175	5.00 - 9.00% of mass 174	7.43 (7.44)
176	95.00 - 101.00% of mass 174	97.46 (97.62)
177	5.00 - 9.00% of mass 176	6.33 (6.50)

Date : 20-JAN-2023 13:37

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00

Data File: e00bfb.d

Spectrum: Avg. Scans 1119-1121 (8.41), Background Scan 1115

Location of Maximum: 95.00

Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	844	62.00	4731	83.00	84	128.00	414
37.00	5313	63.00	3587	87.00	3782	129.00	103
38.00	5043	64.00	277	88.00	3301	130.00	424
39.00	1873	67.00	246	91.00	486	135.00	101
43.00	192	68.00	9664	92.00	3269	137.00	227
44.00	797	69.00	9918	93.00	4543	141.00	1482
45.00	1004	70.00	904	94.00	12626	142.00	91
47.00	1097	72.00	425	95.00	100952	143.00	1462
48.00	575	73.00	4376	96.00	6969	148.00	251
49.00	4159	74.00	17128	97.00	225	155.00	156
50.00	19448	75.00	47888	104.00	586	173.00	1131
51.00	6040	76.00	4079	105.00	171	174.00	100792
52.00	237	77.00	635	106.00	546	175.00	7501
55.00	453	78.00	307	113.00	86	176.00	98392
56.00	1914	79.00	3970	116.00	456	177.00	6391
57.00	3146	80.00	1032	117.00	788	207.00	152
60.00	740	81.00	4033	118.00	389		
61.00	4477	82.00	963	119.00	675		

Data File: \\192.168.50.6\chem\50mvda.i\a011923cal.b/e00bfb.d
Injection Date: 20-JAN-2023 13:37
Instrument: 50mvda.i
Lab Sample ID: 8260-TUNE
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a01bfb.d Page 1

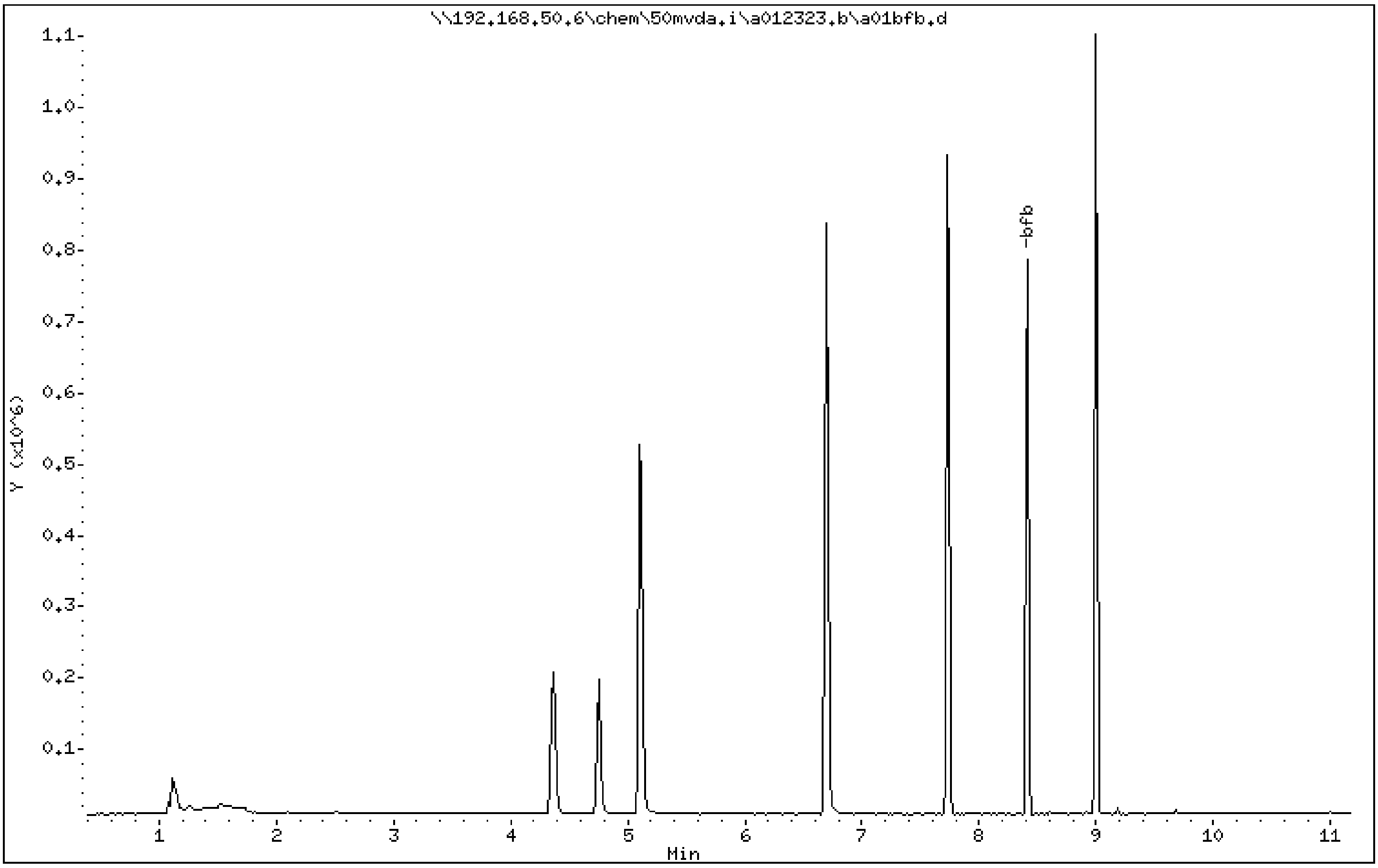
Date : 23-JAN-2023 10:43

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: tkg

Column phase: Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a01bfb.d

Date : 23-JAN-2023 10:43

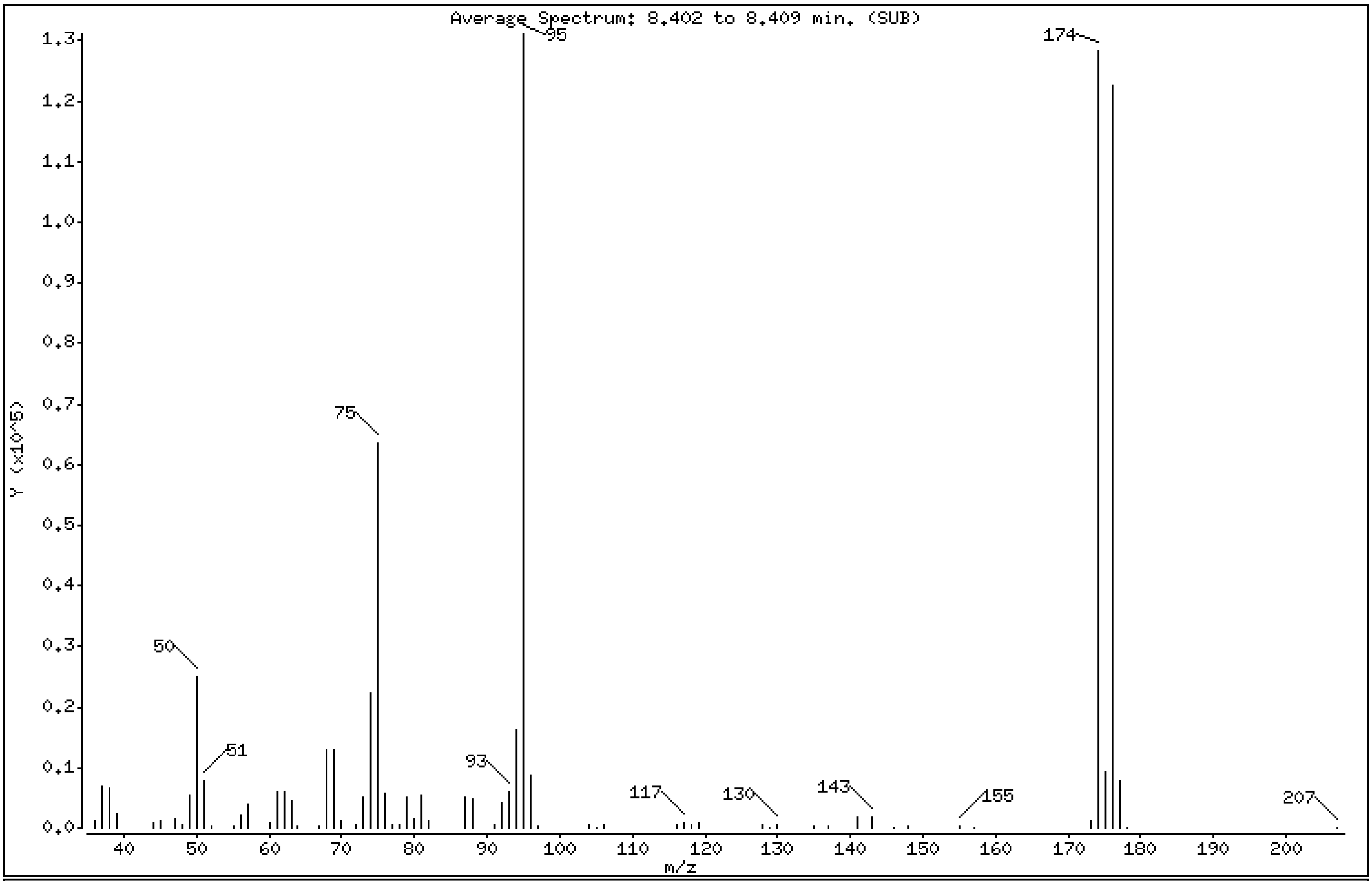
Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: tkg

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	19.16
75	30.00 - 60.00% of mass 95	48.51
96	5.00 - 9.00% of mass 95	6.65
173	Less than 2.00% of mass 174	1.01 (1.04)
174	50.00 - 100.00% of mass 95	97.97
175	5.00 - 9.00% of mass 174	7.07 (7.21)
176	95.00 - 101.00% of mass 174	93.60 (95.54)
177	5.00 - 9.00% of mass 176	5.98 (6.39)

Date : 23-JAN-2023 10:43

Client ID: 8260-TUNE Instrument: 50mvda.i

Sample Info: 8260-TUNE,335758:0

Volume Injected (uL): 1.0 Operator: tkg

Column phase: Column diameter: 2.00

Data File: a01bfb.d
Spectrum: Average Spectrum: 8.402 to 8.409 min. (SUB)
Location of Maximum: 95.00
Number of points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1072	63.00	4613	88.00	4842	135.00	222
37.00	7011	64.00	433	91.00	575	137.00	374
38.00	6538	67.00	338	92.00	4147	141.00	1821
39.00	2538	68.00	12999	93.00	5881	143.00	1825
44.00	906	69.00	12949	94.00	16181	146.00	137
45.00	1328	70.00	1070	95.00	131024	148.00	358
47.00	1589	72.00	582	96.00	8708	155.00	422
48.00	748	73.00	5259	97.00	316	157.00	127
49.00	5459	74.00	22232	104.00	716	173.00	1329
50.00	25104	75.00	63552	105.00	130	174.00	128368
51.00	7831	76.00	5627	106.00	715	175.00	9259
52.00	355	77.00	671	116.00	579	176.00	122640
55.00	435	78.00	637	117.00	991	177.00	7837
56.00	2169	79.00	5099	118.00	629	178.00	149
57.00	3943	80.00	1364	119.00	895	207.00	14
60.00	909	81.00	5291	128.00	537		
61.00	5918	82.00	1176	129.00	134		
62.00	6077	87.00	5071	130.00	597		

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a01bfb.d
Injection Date: 23-JAN-2023 10:43
Instrument: 50mvda.i
Lab Sample ID: 8260-TUNE
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a00bfb.d

Date : 24-JAN-2023 11:55

Client ID: 8260-TUNE

Instrument: 50mv2a.i

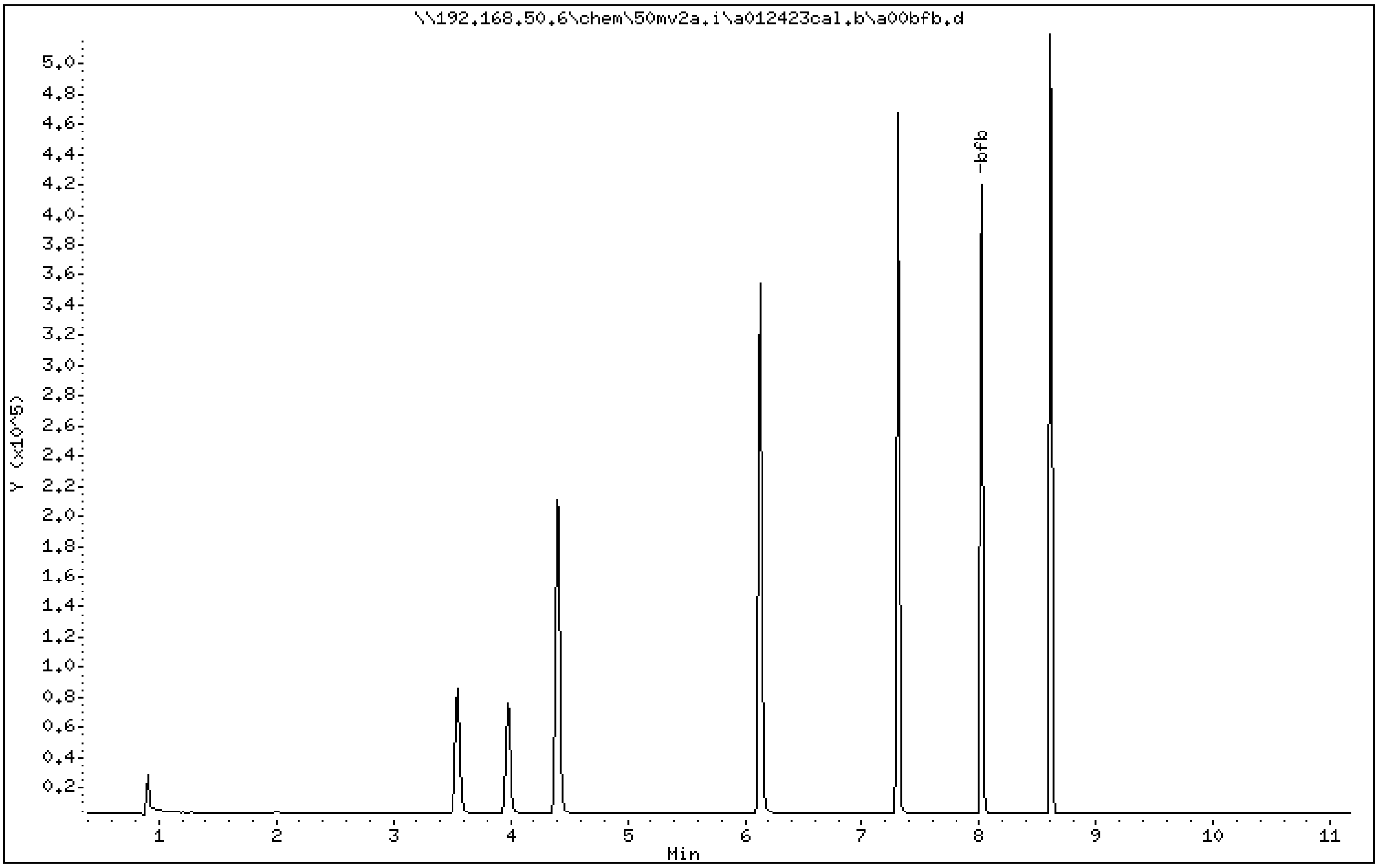
Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0

Operator: tkg

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a00bfb.d

Date : 24-JAN-2023 11:55

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

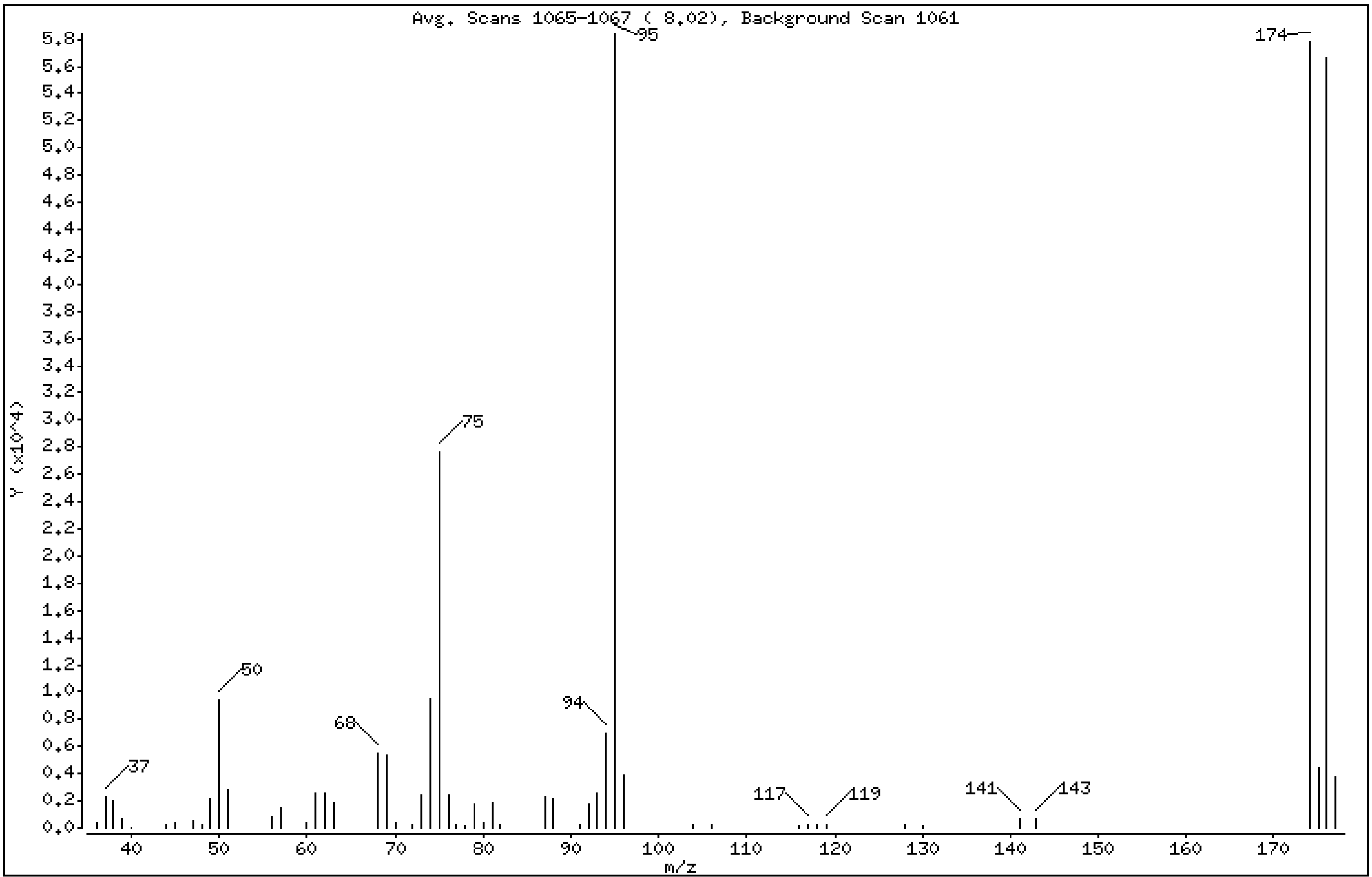
Volume Injected (uL): 1.0

Operator: tkg

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	15.99
75	30.00 - 60.00% of mass 95	47.42
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	99.04
175	5.00 - 9.00% of mass 174	7.70 (7.77)
176	95.00 - 101.00% of mass 174	97.05 (97.99)
177	5.00 - 9.00% of mass 176	6.41 (6.61)

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b\a00bfb.d

Date : 24-JAN-2023 11:55

Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0 Operator: tkg

Column phase: Column diameter: 2.00

Data File: a00bfb.d

Spectrum: Avg. Scans 1065-1067 (8.02), Background Scan 1061

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	373	60.00	444	79.00	1710	116.00	196
37.00	2340	61.00	2526	80.00	448	117.00	335
38.00	1992	62.00	2518	81.00	1830	118.00	207
39.00	669	63.00	1910	82.00	321	119.00	272
40.00	28	68.00	5488	87.00	2277	128.00	208
44.00	311	69.00	5425	88.00	2213	130.00	111
45.00	370	70.00	397	91.00	203	141.00	621
47.00	482	72.00	265	92.00	1684	143.00	627
48.00	267	73.00	2471	93.00	2517	174.00	57792
49.00	2096	74.00	9528	94.00	7028	175.00	4492
50.00	9331	75.00	27672	95.00	58352	176.00	56632
51.00	2878	76.00	2386	96.00	3889	177.00	3741
56.00	749	77.00	275	104.00	229		
57.00	1472	78.00	188	106.00	205		

Data File: \\192.168.50.6\chem\50mv2a.i\a012423cal.b/a00bfb.d
Injection Date: 24-JAN-2023 11:55
Instrument: 50mv2a.i
Lab Sample ID: 8260-TUNE
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv2a.i\a012623.b\a000bfb.d

Date : 26-JAN-2023 08:37

Client ID: 8260-TUNE

Instrument: 50mv2a.i

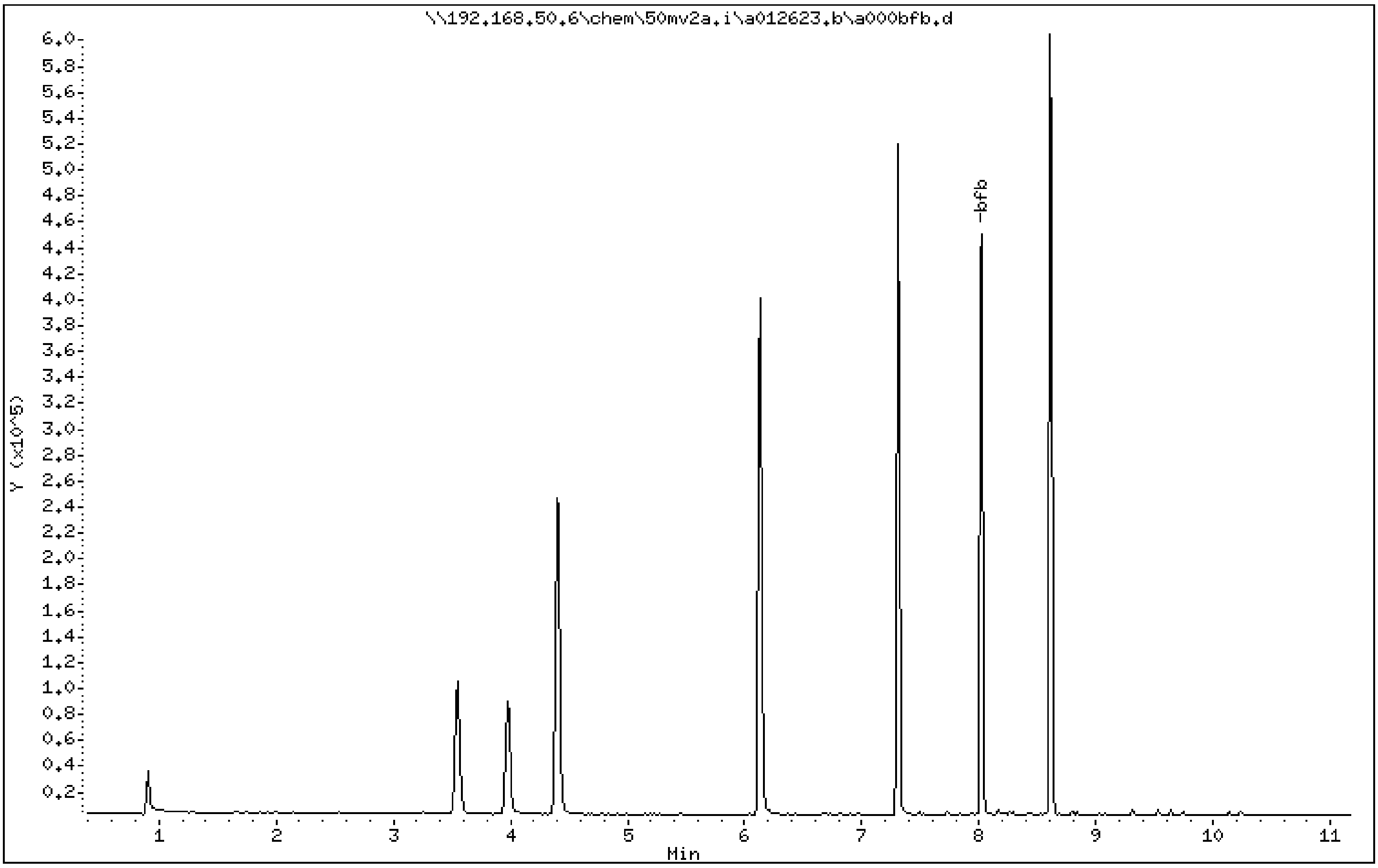
Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0

Operator: tkg

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv2a.i\a012623.b\a000bfb.d

Date : 26-JAN-2023 08:37

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

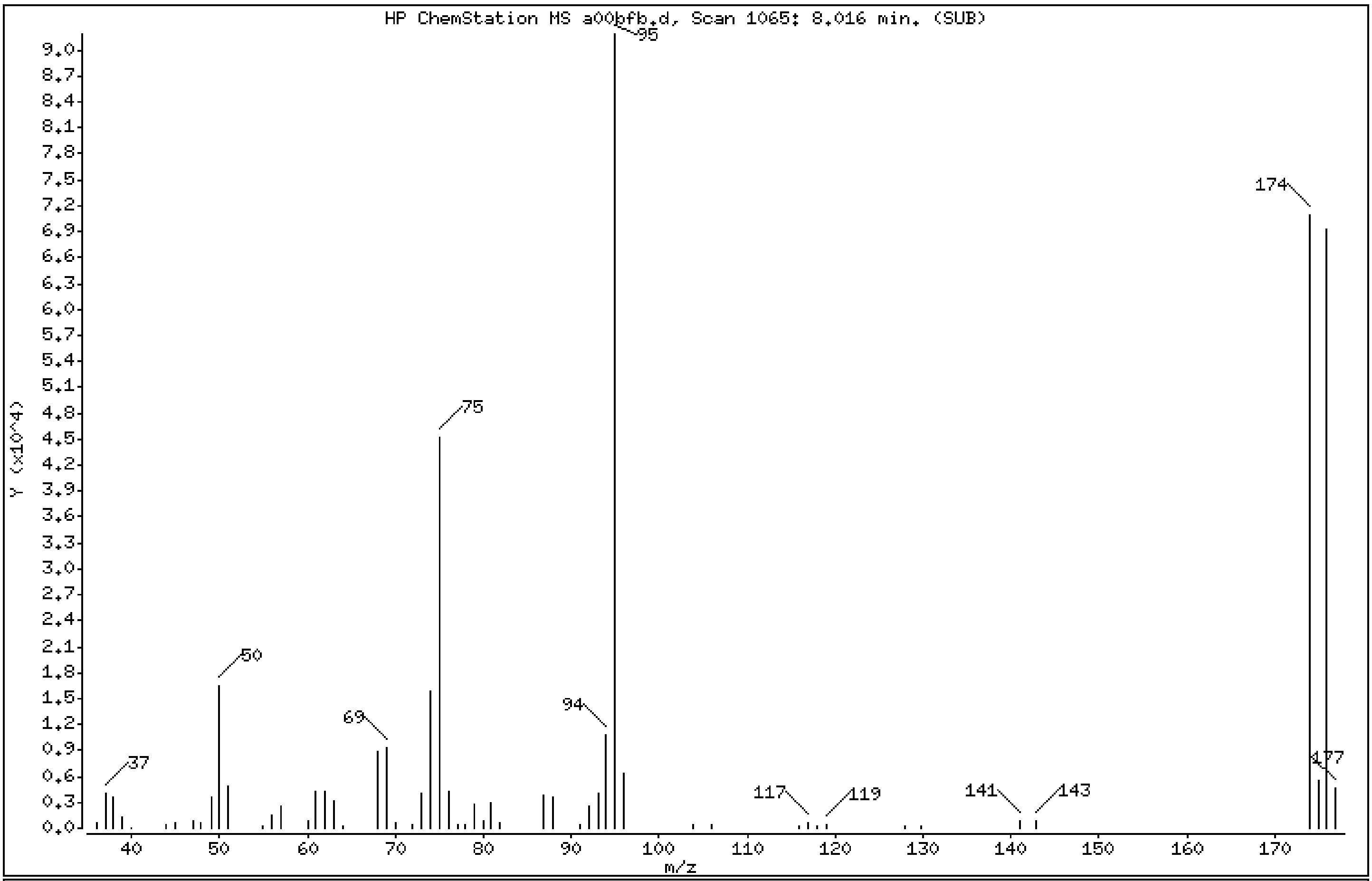
Volume Injected (uL): 1.0

Operator: tkg

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	17.90
75	30.00 - 60.00% of mass 95	49.16
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.20
175	5.00 - 9.00% of mass 174	5.92 (7.67)
176	95.00 - 101.00% of mass 174	75.39 (97.66)
177	5.00 - 9.00% of mass 176	5.17 (6.85)

Date : 26-JAN-2023 08:37

Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0 Operator: tkg

Column phase: Column diameter: 2.00

Data File: a000bfb.d

Spectrum: HP ChemStation MS a00bfb.d, Scan 1065: 8.016 min. (SUB)

Location of Maximum: 95.00

Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	664	60.00	825	78.90	2813	116.90	573
37.00	4014	61.00	4230	80.00	777	117.90	306
38.00	3611	62.00	4200	80.90	2878	118.90	434
39.00	1316	63.00	3159	81.90	556	127.90	297
40.00	4	64.00	273	86.90	3696	129.80	312
44.00	488	68.00	8941	87.90	3621	140.90	817
45.00	724	69.00	9342	90.90	320	142.90	823
47.00	834	70.00	730	92.00	2637	173.90	70880
47.90	552	72.00	452	93.00	3928	174.90	5440
49.00	3574	73.00	4062	94.00	10784	175.90	69224
50.00	16432	74.00	15772	95.00	91816	176.90	4744
51.00	4792	75.00	45136	96.00	6264		
55.00	278	76.00	4140	103.90	401		
56.00	1400	77.00	476	105.90	379		
57.00	2443	77.90	337	115.80	308		

Data File: \\192.168.50.6\chem\50mv2a.i\a012623.b/a000bfb.d
Injection Date: 26-JAN-2023 08:37
Instrument: 50mv2a.i
Lab Sample ID: 8260-TUNE
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a00bfb.d

Page 1

Date : 27-JAN-2023 10:37

Client ID: 8260-TUNE

Instrument: 50mv2a.i

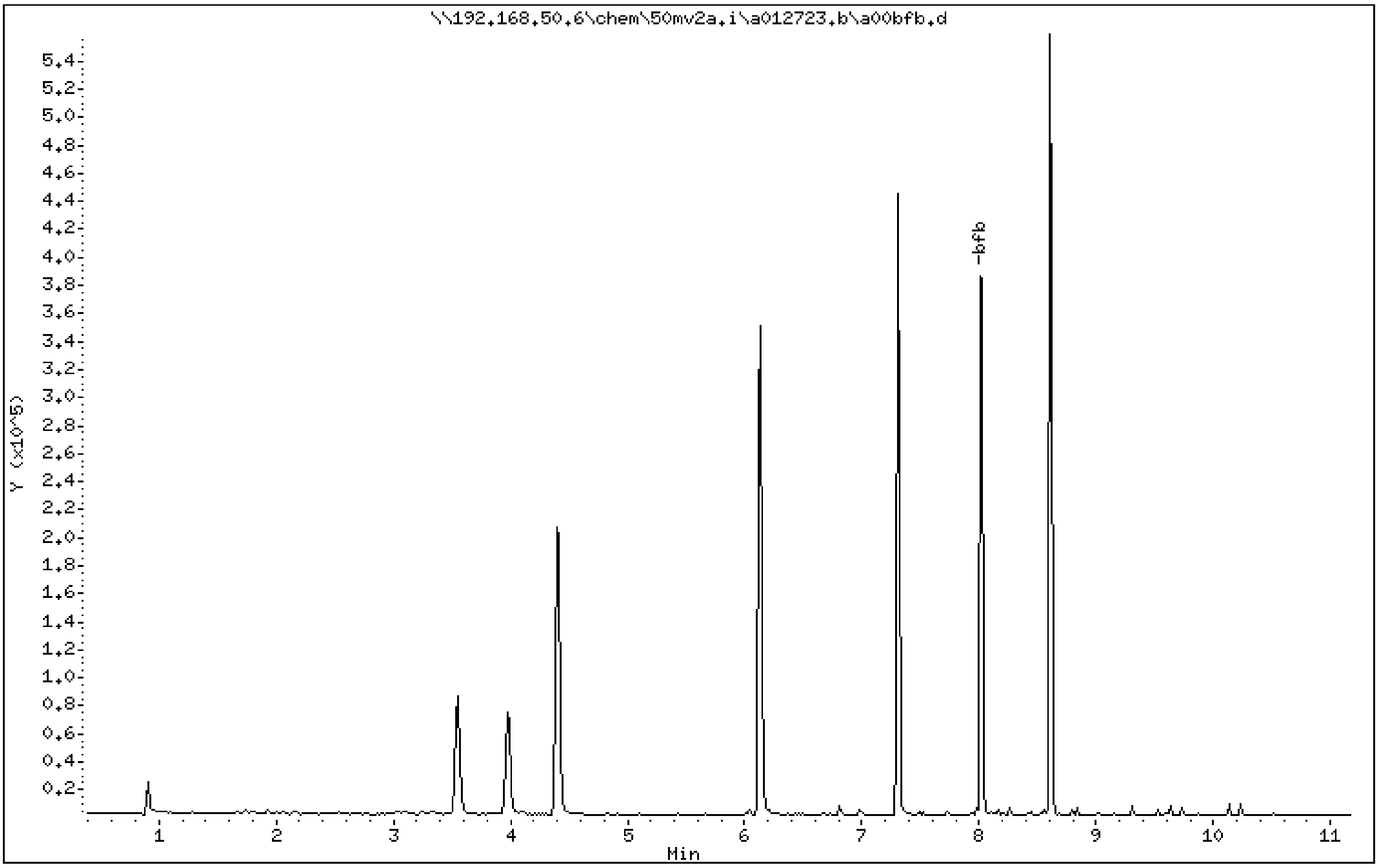
Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0

Operator: tkg

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a00bfb.d Page 2

Date : 27-JAN-2023 10:37

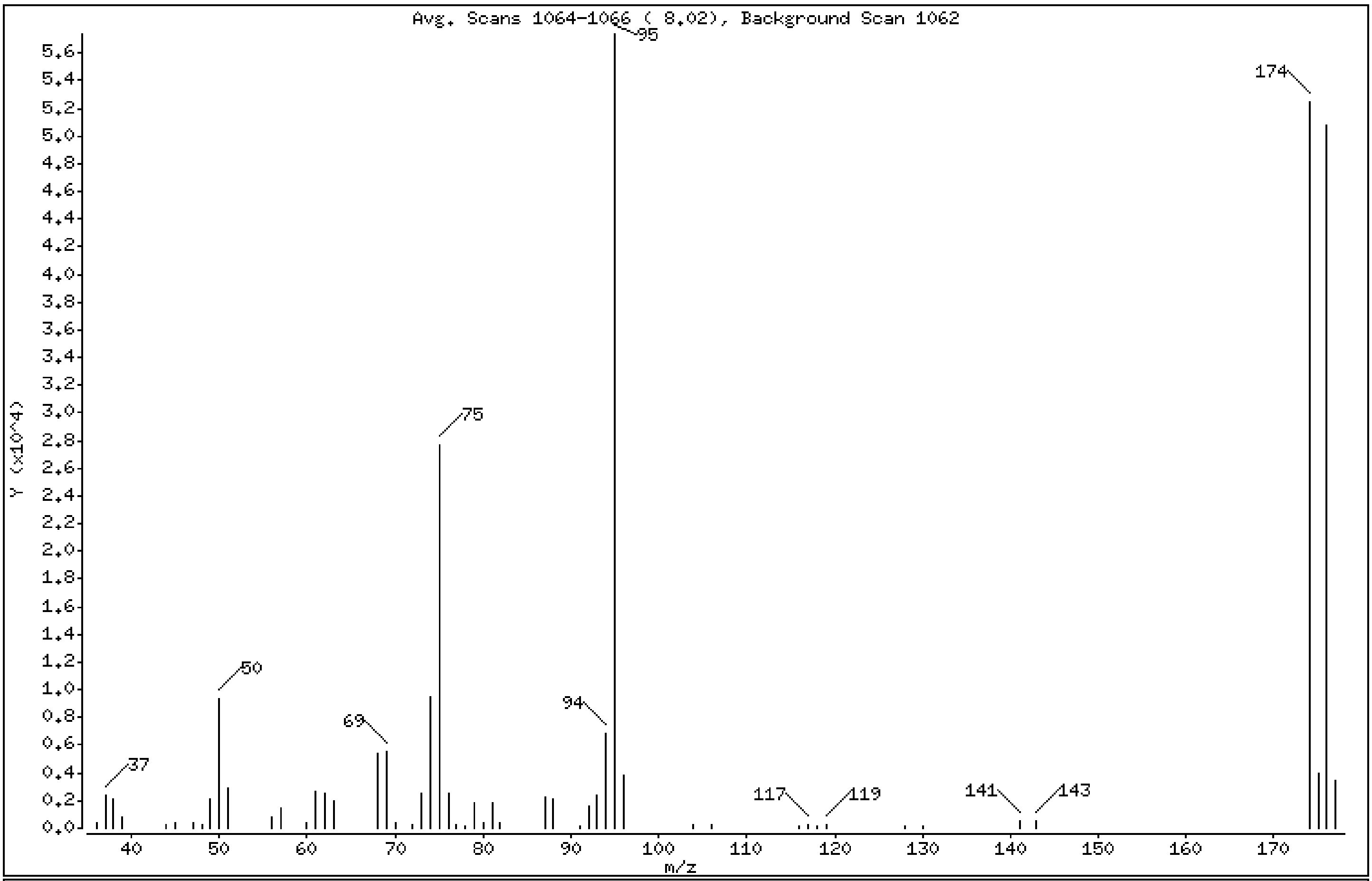
Client ID: 8260-TUNE Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0 Operator: tkg

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	16.29
75	30.00 - 60.00% of mass 95	48.35
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	91.60
175	5.00 - 9.00% of mass 174	6.82 (7.45)
176	95.00 - 101.00% of mass 174	88.58 (96.70)
177	5.00 - 9.00% of mass 176	5.93 (6.70)

Date : 27-JAN-2023 10:37

Client ID: 8260-TUNE

Instrument: 50mv2a.i

Sample Info: 8260-TUNE,336024:0

Volume Injected (uL): 1.0

Operator: tkg

Column phase:

Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1064-1066 (8.02), Background Scan 1062
Location of Maximum: 95.00
Number of points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	388	61.00	2586	80.00	457	117.00	326
37.00	2350	62.00	2534	81.00	1828	118.00	189
38.00	2088	63.00	1983	82.00	331	119.00	267
39.00	817	68.00	5429	87.00	2259	128.00	189
44.00	302	69.00	5496	88.00	2153	130.00	182
45.00	380	70.00	388	91.00	194	141.00	513
47.00	434	72.00	277	92.00	1619	143.00	558
48.00	259	73.00	2470	93.00	2434	174.00	52536
49.00	2144	74.00	9434	94.00	6836	175.00	3914
50.00	9340	75.00	27728	95.00	57352	176.00	50800
51.00	2888	76.00	2458	96.00	3879	177.00	3402
56.00	828	77.00	263	104.00	232		
57.00	1455	78.00	106	106.00	224		
60.00	418	79.00	1811	116.00	90		

Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a00bfb.d
Injection Date: 27-JAN-2023 10:37
Instrument: 50mv2a.i
Lab Sample ID: 8260-TUNE
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: LA2265-LA2270
Date Received:
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 12:29
Lab Sample ID: 3287445
Date Analyzed: 01/23/2023 12:29
Lab File ID: A012323.B\A05MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA 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

02/02/2023 7:02

SAMPLE NO.

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

BLANK

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received:
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 12:29
Lab Sample ID: 3287445
Date Analyzed: 01/23/2023 12:29
Lab File ID: A012323.B\A05MB.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA 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
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

02/02/2023 7:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a05mb.d
Lab Smp Id: 3287445
Inj Date : 23-JAN-2023 12:29
Operator : tkg Inst ID: 50mvda.i
Smp Info : 3287445
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 QC Sample: BLANK
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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	2.084	2.084	(0.408)	1228	1.58481	1.58(Q)	
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 tert-Butyl Alcohol	59	Compound Not Detected.						(D)
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						
23 1,1-Dichloroethane	63	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
24 Vinyl Acetate	43	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 chloroprene	53	Compound Not Detected.						
27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
28 2,2-Dichloropropane	77	Compound Not Detected.						
29 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
30 2-Butanone	43	Compound Not Detected.						
31 Ethyl Acetate	88	Compound Not Detected.						
32 Propionitrile	54	Compound Not Detected.						
33 Methacrylonitrile	41	Compound Not Detected.						
34 Bromochloromethane	49	Compound Not Detected.						
35 Tetrahydrofuran	42	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
$ 37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	133030	53.5278	53.5	
38 1,1,1-Trichloroethane	97	Compound Not Detected.						
39 Cyclohexane	56	Compound Not Detected.						
40 Carbon Tetrachloride	117	Compound Not Detected.						
41 1,1-Dichloropropene	75	Compound Not Detected.						
42 Isobutyl alcohol	43	Compound Not Detected.						
43 Benzene	78	Compound Not Detected.						
44 1,2-Dichloroethane	62	Compound Not Detected.						
45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
46 tert-Amylmethyl ether	73	Compound Not Detected.						
* 47 Fluorobenzene	96	5.107	5.107	(1.000)	486530	50.0000		
48 Trichloroethene	95	Compound Not Detected.						
49 Methylcyclohexane	55	Compound Not Detected.						
50 1,2-Dichloropropane	63	Compound Not Detected.						
51 Dibromomethane	93	Compound Not Detected.						
52 1,4-Dioxane	88	Compound Not Detected.						
53 Methyl methacrylate	69	Compound Not Detected.						
54 Bromodichloromethane	83	Compound Not Detected.						
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$ 58 Toluene-d8	98	6.697	6.697	(0.867)	459204	47.3025	47.3	
59 Toluene	91	Compound Not Detected.						
60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
61 Ethyl Methacrylate	69	Compound Not Detected.						
62 1,1,2-Trichloroethane	83	Compound Not Detected.						
63 Tetrachloroethene	166	Compound Not Detected.						
64 1,3-Dichloropropane	76	Compound Not Detected.						
65 2-Hexanone	43	Compound Not Detected.						
66 Dibromochloromethane	129	Compound Not Detected.						
67 1,2-Dibromoethane	107	Compound Not Detected.						
* 68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	370109	50.0000		
69 Chlorobenzene	112	Compound Not Detected.						
70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
71 Ethylbenzene	106	Compound Not Detected.						
72 m&p-Xylene	106	Compound Not Detected.						
73 o-Xylene	106	Compound Not Detected.						
74 Styrene	104	Compound Not Detected.						
75 Bromoform	173	Compound Not Detected.						
76 Isopropylbenzene	105	Compound Not Detected.						
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	146688	47.2763	47.3	
78 Bromobenzene	77	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	178991	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	10.064	10.064	(1.119)	2191	0.45541	0.455	
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a05mb.d

Date : 23-JAN-2023 12:29

Client ID:

Sample Info: 3287445

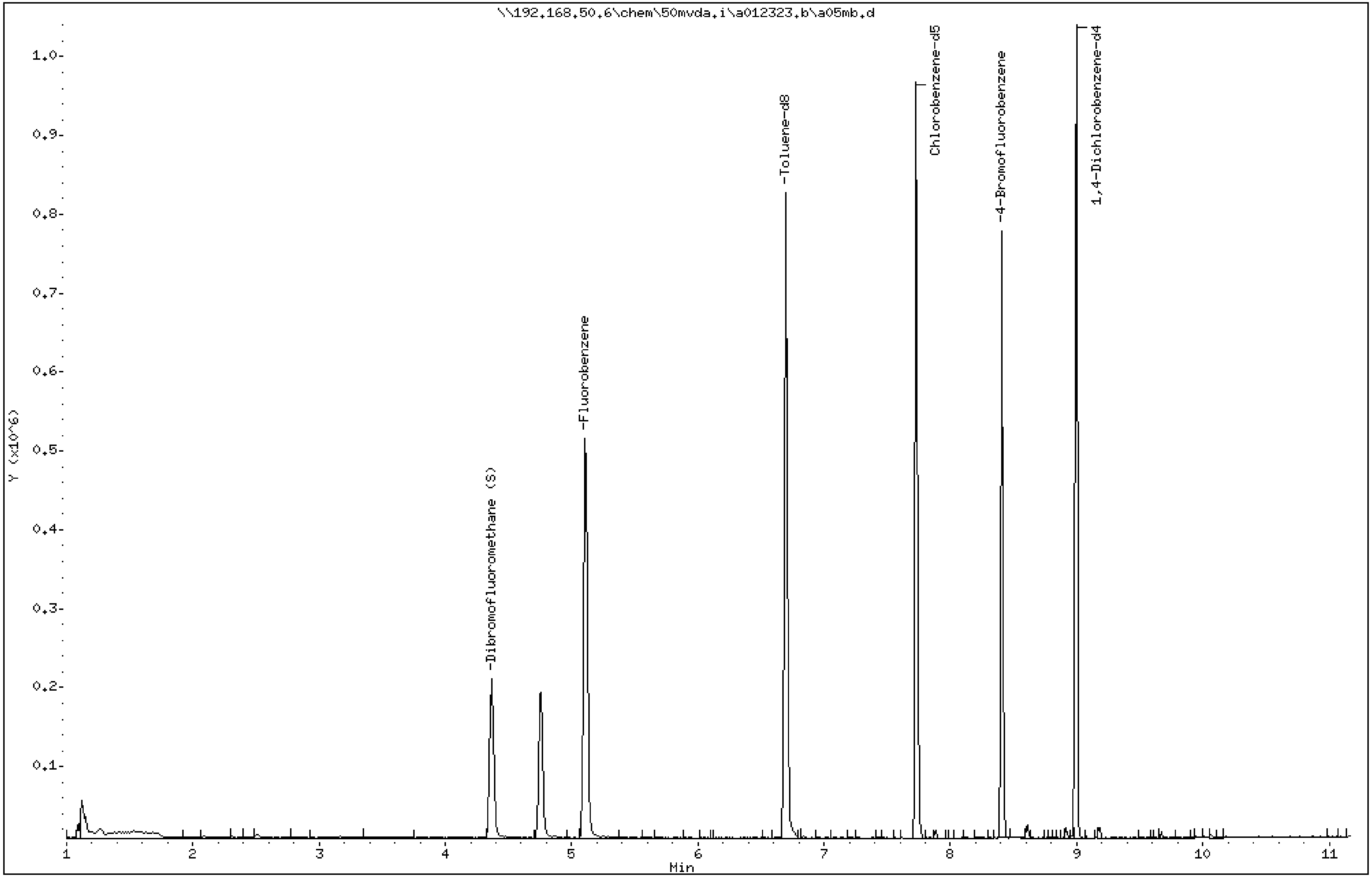
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvda.i

Operator: tkg

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a05mb.d

Date : 23-JAN-2023 12:29

Client ID:

Instrument: 50mvda.i

Sample Info: 3287445

Purge Volume: 5.0

Operator: tkg

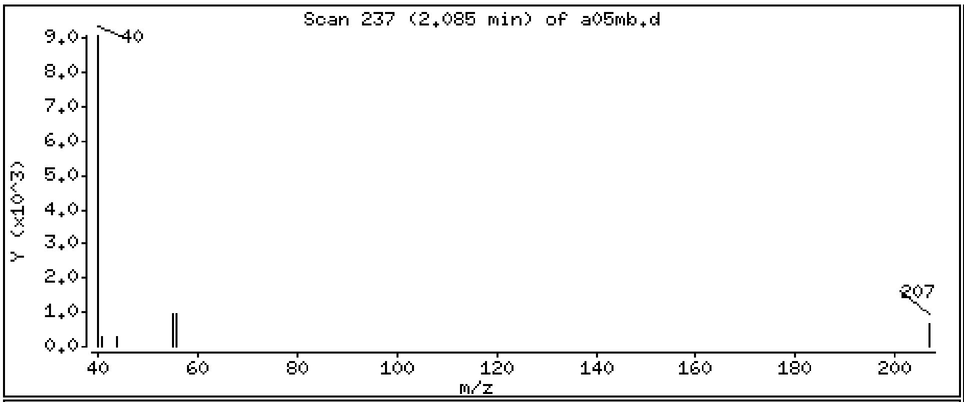
Column phase: DB-624

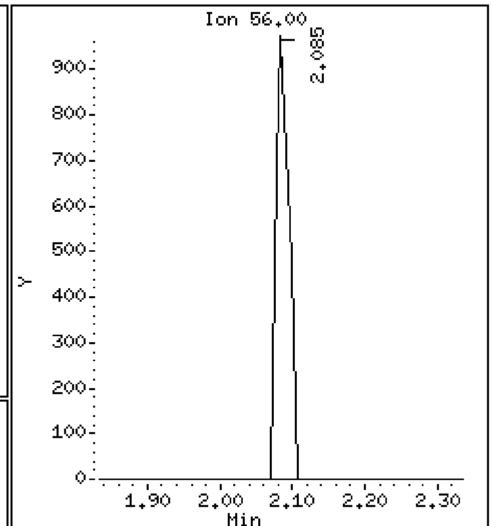
Column diameter: 0.18

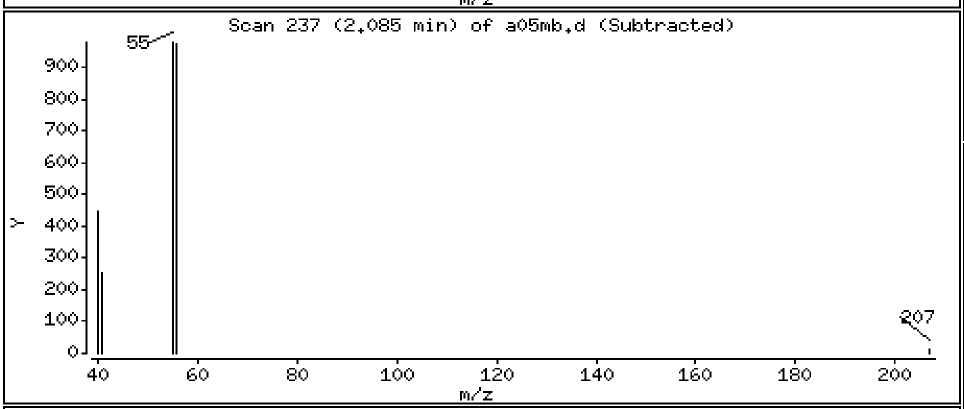
8 Acrolein

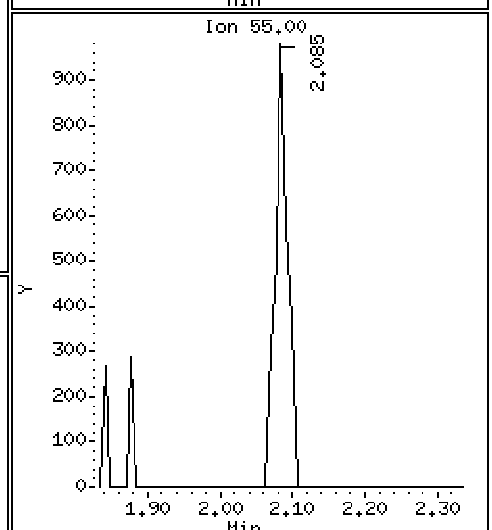
Concentration: 1.58 ppb

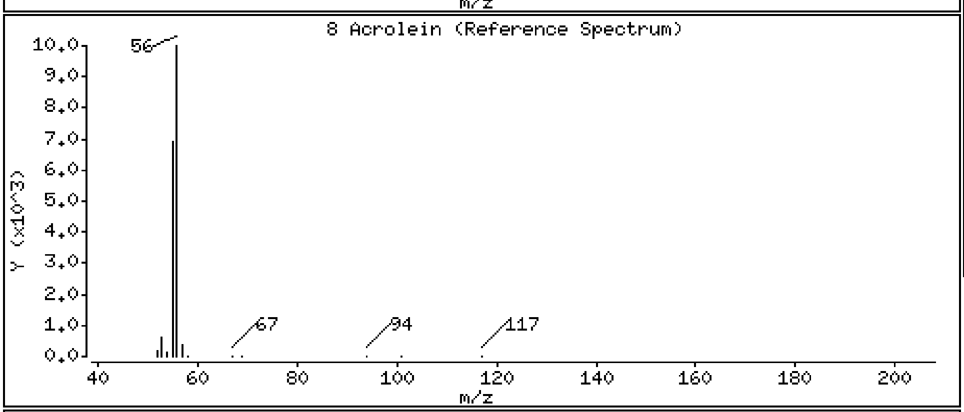
Review Code:

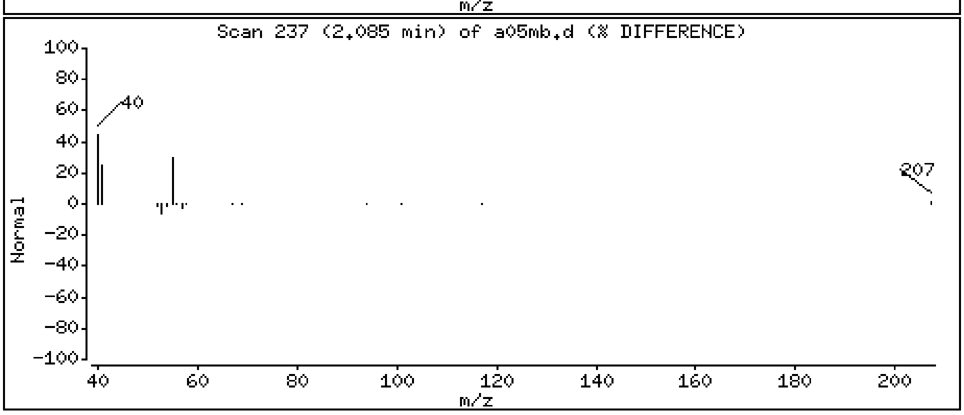












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a05mb.d

Date : 23-JAN-2023 12:29

Client ID:

Instrument: 50mvda.i

Sample Info: 3287445

Purge Volume: 5.0

Operator: tkg

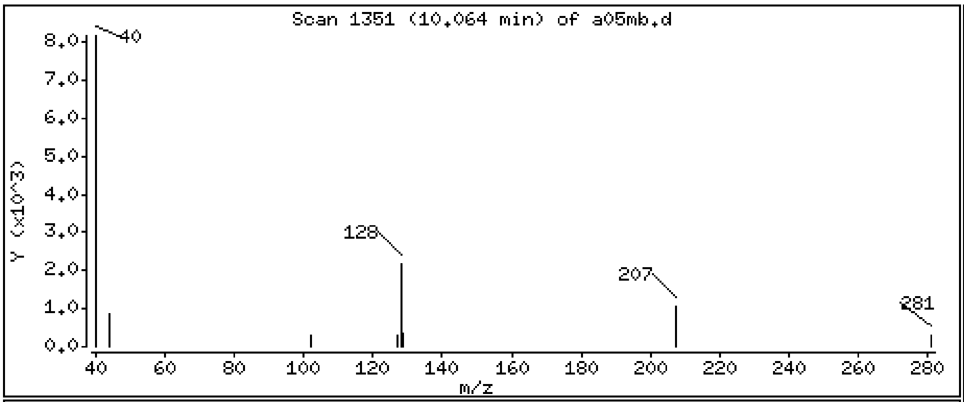
Column phase: DB-624

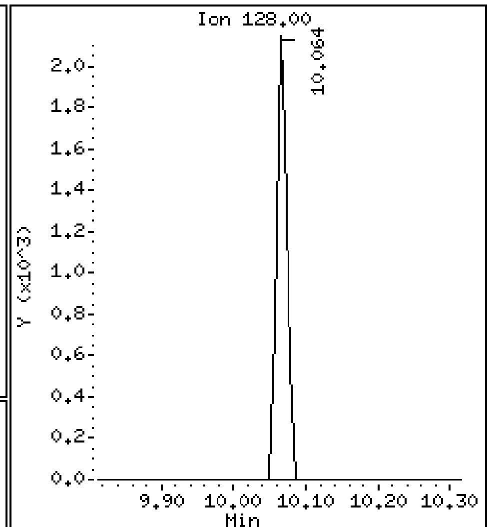
Column diameter: 0.18

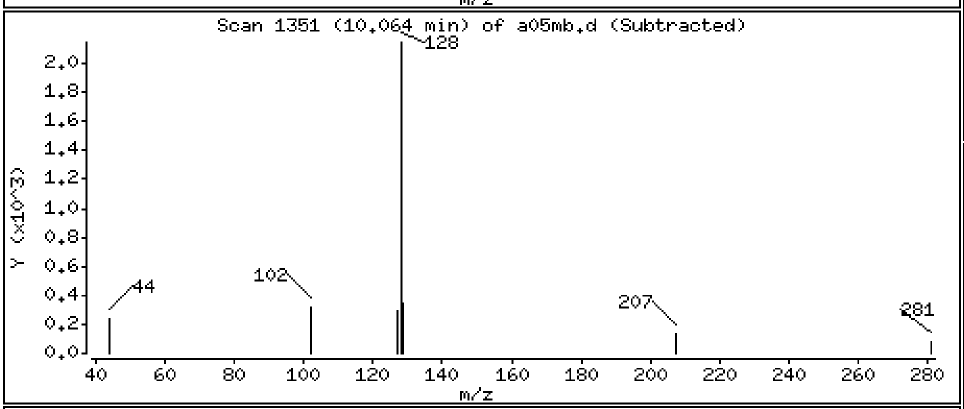
100 Naphthalene

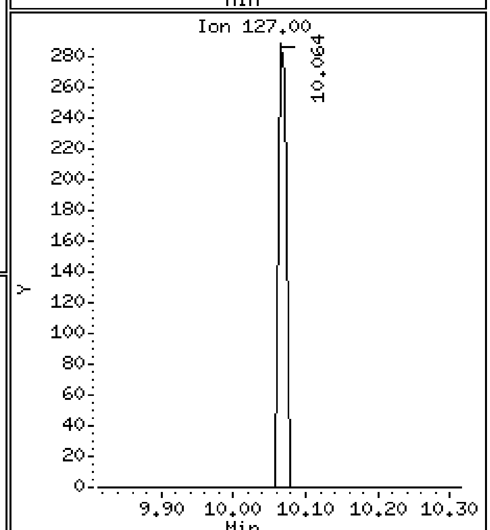
Concentration: 0.455 ppb

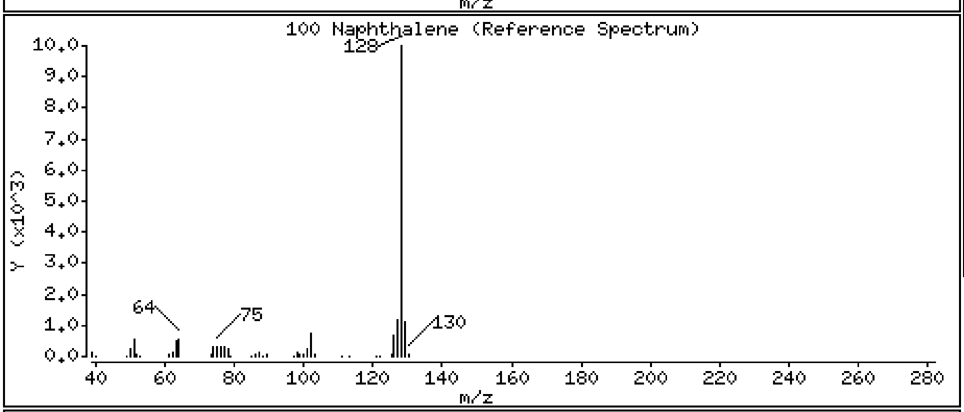
Review Code:

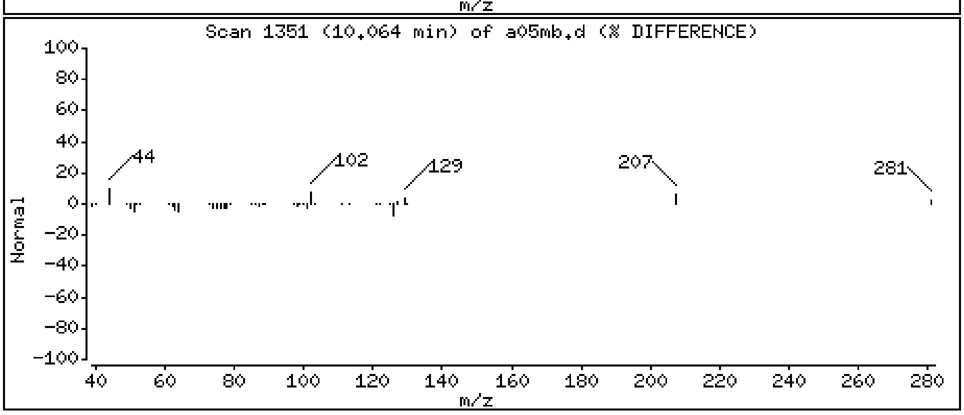












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a05mb.d

Date : 23-JAN-2023 12:29

Client ID:

Instrument: 50mvda.i

Sample Info: 3287445

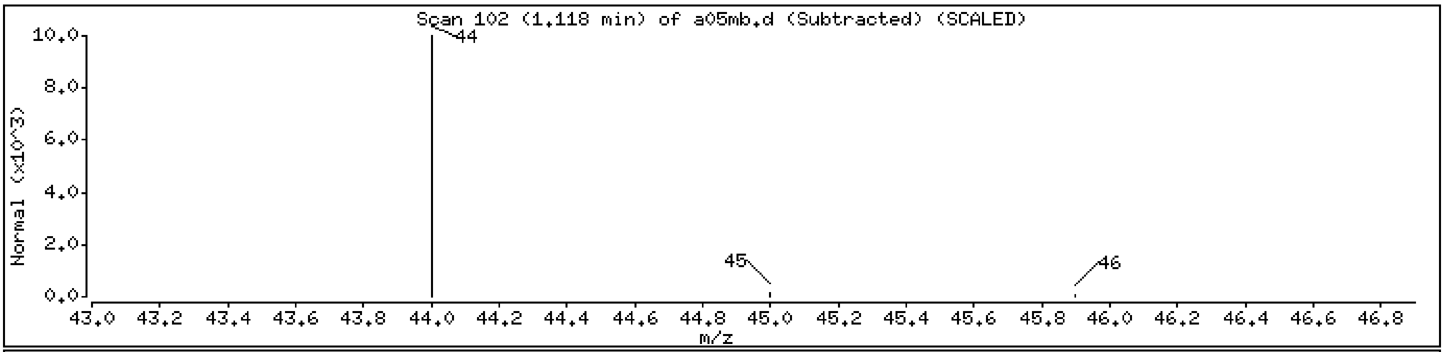
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Injection Date: 23-JAN-2023 12:29
Instrument: 50mvda.i
Lab Sample ID: 3287445
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: LA2265-LA2270
Date Received: Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 11:36 Lab Sample ID: 3287446
Date Analyzed: 01/23/2023 11:36 Lab File ID: A012323.B\A03LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	204	
107-02-8	Acrolein	884	
107-13-1	Acrylonitrile	223	
71-43-2	Benzene	43.4	
108-86-1	Bromobenzene	40.3	
74-97-5	Bromochloromethane	42.2	
75-27-4	Bromodichloromethane	47.3	
75-25-2	Bromoform	50.1	
74-83-9	Bromomethane	23.8	
78-93-3	2-Butanone (MEK)	210	
104-51-8	n-Butylbenzene	38.9	
135-98-8	sec-Butylbenzene	40.5	
98-06-6	tert-Butylbenzene	37.5	
75-15-0	Carbon disulfide	44.7	
56-23-5	Carbon tetrachloride	51.9	
108-90-7	Chlorobenzene	44.9	
75-00-3	Chloroethane	42.8	
67-66-3	Chloroform	43.7	
74-87-3	Chloromethane	42.1	
95-49-8	2-Chlorotoluene	38.1	
106-43-4	4-Chlorotoluene	43.7	
124-48-1	Dibromochloromethane	49.7	
106-93-4	1,2-Dibromoethane (EDB)	44.9	
74-95-3	Dibromomethane	47.7	
95-50-1	1,2-Dichlorobenzene	45.3	
541-73-1	1,3-Dichlorobenzene	44.9	
106-46-7	1,4-Dichlorobenzene	44.0	
110-57-6	trans-1,4-Dichloro-2-butene	39.7	
75-71-8	Dichlorodifluoromethane	19.1	
75-34-3	1,1-Dichloroethane	42.0	
107-06-2	1,2-Dichloroethane	43.7	
75-35-4	1,1-Dichloroethene	44.4	
156-59-2	cis-1,2-Dichloroethene	40.7	
156-60-5	trans-1,2-Dichloroethene	41.1	
78-87-5	1,2-Dichloropropane	41.5	
142-28-9	1,3-Dichloropropane	40.9	
594-20-7	2,2-Dichloropropane	46.6	

02/02/2023 7:02

SAMPLE NO.

LCS

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received:
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 11:36
Lab Sample ID: 3287446
Date Analyzed: 01/23/2023 11:36
Lab File ID: A012323.B\A03LCS.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	45.6	
10061-01-5	cis-1,3-Dichloropropene	42.3	
10061-02-6	trans-1,3-Dichloropropene	40.9	
100-41-4	Ethylbenzene	44.3	
97-63-2	Ethyl methacrylate	39.2	
87-68-3	Hexachloro-1,3-butadiene	52.5	
110-54-3	n-Hexane	40.9	
591-78-6	2-Hexanone	196	
74-88-4	Iodomethane	72.1	
98-82-8	Isopropylbenzene (Cumene)	43.3	
99-87-6	p-Isopropyltoluene	42.6	
75-09-2	Methylene Chloride	45.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	199	
1634-04-4	Methyl-tert-butyl ether	42.6	
91-20-3	Naphthalene	42.6	
103-65-1	n-Propylbenzene	38.4	
100-42-5	Styrene	44.2	
630-20-6	1,1,1,2-Tetrachloroethane	48.3	
79-34-5	1,1,2,2-Tetrachloroethane	37.0	
127-18-4	Tetrachloroethene	50.4	
108-88-3	Toluene	40.2	
87-61-6	1,2,3-Trichlorobenzene	47.4	
120-82-1	1,2,4-Trichlorobenzene	45.8	
71-55-6	1,1,1-Trichloroethane	47.6	
79-00-5	1,1,2-Trichloroethane	41.0	
79-01-6	Trichloroethene	45.8	
75-69-4	Trichlorofluoromethane	49.9	
96-18-4	1,2,3-Trichloropropane	41.0	
95-63-6	1,2,4-Trimethylbenzene	40.1	
108-67-8	1,3,5-Trimethylbenzene	40.2	
108-05-4	Vinyl acetate	182	
75-01-4	Vinyl chloride	43.1	
1330-20-7	Xylene (Total)	133	

02/02/2023 7:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a03lcs.d
Lab Smp Id: 3287446
Inj Date : 23-JAN-2023 11:36
Operator : tkg Inst ID: 50mvda.i
Smp Info : 3287446,336256:5
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 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	1.217	1.217	(0.238)	65140	19.1005	19.1	
2 Chloromethane	50	1.404	1.404	(0.275)	152617	42.0585	42.0	
3 Vinyl Chloride	62	1.396	1.396	(0.273)	151249	43.1295	43.1	
4 Bromomethane	94	1.590	1.583	(0.311)	53264	23.8048	23.8	
5 Chloroethane	64	1.647	1.647	(0.323)	87765	42.7728	42.8	
6 Trichlorofluoromethane	101	1.805	1.798	(0.353)	208887	49.8611	49.9	
7 Diethyl ether	74	1.977	1.977	(0.387)	75029	41.7241	41.7	
8 Acrolein	56	2.084	2.084	(0.408)	732260	884.089	884	
9 1,1,2trichlorotrifluoroethane	101	2.127	2.127	(0.417)	143878	52.0995	52.1	
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	125043	44.3727	44.4	
11 Acetone	43	2.191	2.192	(0.429)	339394	203.849	204	
12 Iodomethane	142	2.270	2.263	(0.445)	190136	72.0892	72.1	
13 Carbon Disulfide	76	2.313	2.313	(0.453)	379024	44.6677	44.7	
14 Acetonitrile	39	2.406	2.406	(0.471)	153745	227.331	227	
15 allyl chloride	41	2.406	2.406	(0.471)	316627	41.2705	41.3	
16 Methyl Acetate	43	2.413	2.414	(0.473)	785014	208.242	208	
17 Methylene Chloride	84	2.507	2.507	(0.491)	130814	45.2902	45.3	
18 tert-Butyl Alcohol	59	2.585	2.586	(0.506)	137994	239.353	239	
19 Acrylonitrile	53	2.722	2.722	(0.533)	395979	222.539	222	
20 Methyl-tert-butyl ether	73	2.722	2.714	(0.533)	359833	42.5739	42.6	
21 1,2-Dichloroethene (trans)	96	2.729	2.722	(0.534)	134001	41.1365	41.1	
22 n-Hexane	57	2.951	2.944	(0.578)	208068	40.9233	40.9	
23 1,1-Dichloroethane	63	3.123	3.123	(0.612)	214201	42.0294	42.0	

						CONCENTRATIONS		
	QUANT SIG					ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
24 Vinyl Acetate	43	3.166	3.166	(0.620)	1632806	181.611	182	
25 Diisopropyl ether	45	3.166	3.166	(0.620)	440004	41.0628	41.1	
26 chloroprene	53	3.209	3.209	(0.628)	197305	44.2382	44.2	
27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	369529	41.8473	41.8	
28 2,2-Dichloropropane	77	3.767	3.760	(0.738)	190641	46.6420	46.6	
29 1,2-Dichloroethene (cis)	96	3.774	3.775	(0.739)	148467	40.6772	40.7	
30 2-Butanone	43	3.810	3.810	(0.746)	546503	210.098	210	
31 Ethyl Acetate	88	3.875	3.875	(0.759)	45420	246.994	247	
32 Propionitrile	54	3.918	3.918	(0.767)	162976	220.395	220	
33 Methacrylonitrile	41	4.090	4.090	(0.801)	841522	201.174	201	
34 Bromochloromethane	49	4.075	4.075	(0.798)	112291	42.1812	42.2	
35 Tetrahydrofuran	42	4.125	4.126	(0.808)	424260	202.075	202	
36 Chloroform	83	4.168	4.169	(0.816)	225762	43.7391	43.7	
$ 37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	138025	51.9564	52.0	
38 1,1,1-Trichloroethane	97	4.369	4.369	(0.856)	218888	47.6234	47.6	
39 Cyclohexane	56	4.412	4.412	(0.864)	229545	40.9262	40.9	
40 Carbon Tetrachloride	117	4.548	4.548	(0.891)	217768	51.8935	51.9	
41 1,1-Dichloropropene	75	4.555	4.555	(0.892)	166841	45.5787	45.6	
42 Isobutyl alcohol	43	4.756	4.756	(0.931)	58246	227.537	228	
43 Benzene	78	4.799	4.799	(0.940)	507653	43.3764	43.4	
44 1,2-Dichloroethane	62	4.835	4.835	(0.947)	163677	43.6781	43.7	
45 2,2,4-Trimethylpentane	57	4.863	4.863	(0.952)	348609	41.8517	41.8	
46 tert-Amylmethyl ether	73	4.921	4.921	(0.964)	358476	40.1735	40.2	
* 47 Fluorobenzene	96	5.107	5.107	(1.000)	520065	50.0000		
48 Trichloroethene	95	5.494	5.494	(1.076)	138336	45.8147	45.8	
49 Methylcyclohexane	55	5.673	5.673	(1.111)	174863	39.1463	39.1	
50 1,2-Dichloropropane	63	5.744	5.744	(1.125)	127177	41.4898	41.5	
51 Dibromomethane	93	5.866	5.866	(1.149)	90350	47.6936	47.7	
52 1,4-Dioxane	88	5.895	5.902	(1.154)	8473	450.631	451	
53 Methyl methacrylate	69	5.880	5.881	(1.151)	118536	41.6322	41.6	
54 Bromodichloromethane	83	6.031	6.031	(1.181)	176774	47.3089	47.3	
55 2-Chloroethyl vinyl ether	63	6.346	6.346	(0.821)	501130	205.683	206	
56 cis-1,3-Dichloropropene	75	6.468	6.468	(0.837)	211858	42.3299	42.3	
57 4-Methyl-2-Pentanone	43	6.625	6.625	(0.857)	1137442	198.833	199	
$ 58 Toluene-d8	98	6.697	6.697	(0.867)	497176	47.0476	47.0	
59 Toluene	91	6.747	6.747	(0.873)	589353	40.1706	40.2	
60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	191004	40.9240	40.9	
61 Ethyl Methacrylate	69	7.019	7.019	(0.908)	186888	39.1976	39.2	
62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	97195	41.0106	41.0	
63 Tetrachloroethene	166	7.163	7.163	(0.927)	184892	50.3606	50.4	
64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	189929	40.8505	40.8	
65 2-Hexanone	43	7.270	7.270	(0.941)	898843	195.937	196	
66 Dibromochloromethane	129	7.363	7.363	(0.953)	168276	49.6560	49.6	
67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	140600	44.9153	44.9	
* 68 Chlorobenzene-d5	117	7.728	7.729	(1.000)	402885	50.0000		
69 Chlorobenzene	112	7.750	7.750	(1.003)	404148	44.8952	44.9	
70 1,1,1,2-Tetrachloroethane	131	7.800	7.800	(1.009)	157013	48.2544	48.2	
71 Ethylbenzene	106	7.814	7.815	(1.011)	222370	44.3358	44.3	
72 m&p-Xylene	106	7.886	7.886	(1.020)	545998	88.8820	88.9	
73 o-Xylene	106	8.115	8.115	(1.050)	255274	43.9100	43.9	
74 Styrene	104	8.122	8.123	(1.051)	447324	44.2083	44.2	
75 Bromoform	173	8.237	8.237	(0.916)	136281	50.1249	50.1	
76 Isopropylbenzene	105	8.316	8.316	(1.076)	661279	43.3194	43.3	
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	162211	48.0261	48.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	78 Bromobenzene	77	8.488	8.488	(1.098)	202516	40.3317	40.3	
	79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	171414	37.0088	37.0	
	80 1,2,3-Trichloropropane	110	8.516	8.517	(0.947)	62602	41.0044	41.0	
	81 trans-1,4-Dichloro-2-butene	53	8.516	8.517	(1.102)	63782	39.7281	39.7	
	82 n-Propylbenzene	91	8.531	8.538	(0.948)	740304	38.3830	38.4	
	83 2-Chlorotoluene	91	8.588	8.588	(0.955)	393458	38.1316	38.1	
	84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	508240	40.2223	40.2	
	85 4-Chlorotoluene	126	8.638	8.645	(0.960)	172743	43.7448	43.7	
	86 tert-Butylbenzene	119	8.789	8.789	(0.977)	464879	37.5052	37.5	
	87 1,2,4-Trimethylbenzene	105	8.810	8.810	(0.979)	506741	40.0846	40.1	
	88 sec-Butylbenzene	105	8.896	8.896	(0.989)	621841	40.4671	40.5	
	89 1,3-Dichlorobenzene	146	8.961	8.961	(0.996)	304479	44.9394	44.9	
	90 p-Isopropyltoluene	119	8.961	8.968	(0.996)	549422	42.6034	42.6	
*	91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	208454	50.0000		
	92 1,4-Dichlorobenzene	146	9.003	9.011	(1.001)	299332	44.0444	44.0	
	93 1,2,3-Trimethylbenzene	105	9.025	9.025	(1.003)	470064	40.4467	40.4	
	94 n-Butylbenzene	91	9.161	9.161	(1.018)	407690	38.8592	38.8	
	95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	261551	45.3096	45.3	
	96 Hexachloroethane	201	9.311	9.312	(1.035)	88630	54.0619	54.1	
	97 1,2-Dibromo-3-chloropropane	155	9.562	9.562	(1.063)	44178	51.2094	51.2	
	98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	84223	45.8441	45.8	
	99 Hexachlorobutadiene	225	9.999	10.006	(1.111)	47444	52.5489	52.5	
	100 Naphthalene	128	10.064	10.064	(1.119)	238662	42.5960	42.6	
	101 1,2,3-Trichlorobenzene	180	10.178	10.178	(1.131)	48372	47.4446	47.4	
	102 2,methyl-naphthalene	142	10.644	10.651	(1.183)	10579	40.4091	40.4	
	103 1-Methylnaphthalene	142	10.758	10.766	(1.196)	6229	43.6774	43.7	

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a03lcs.d

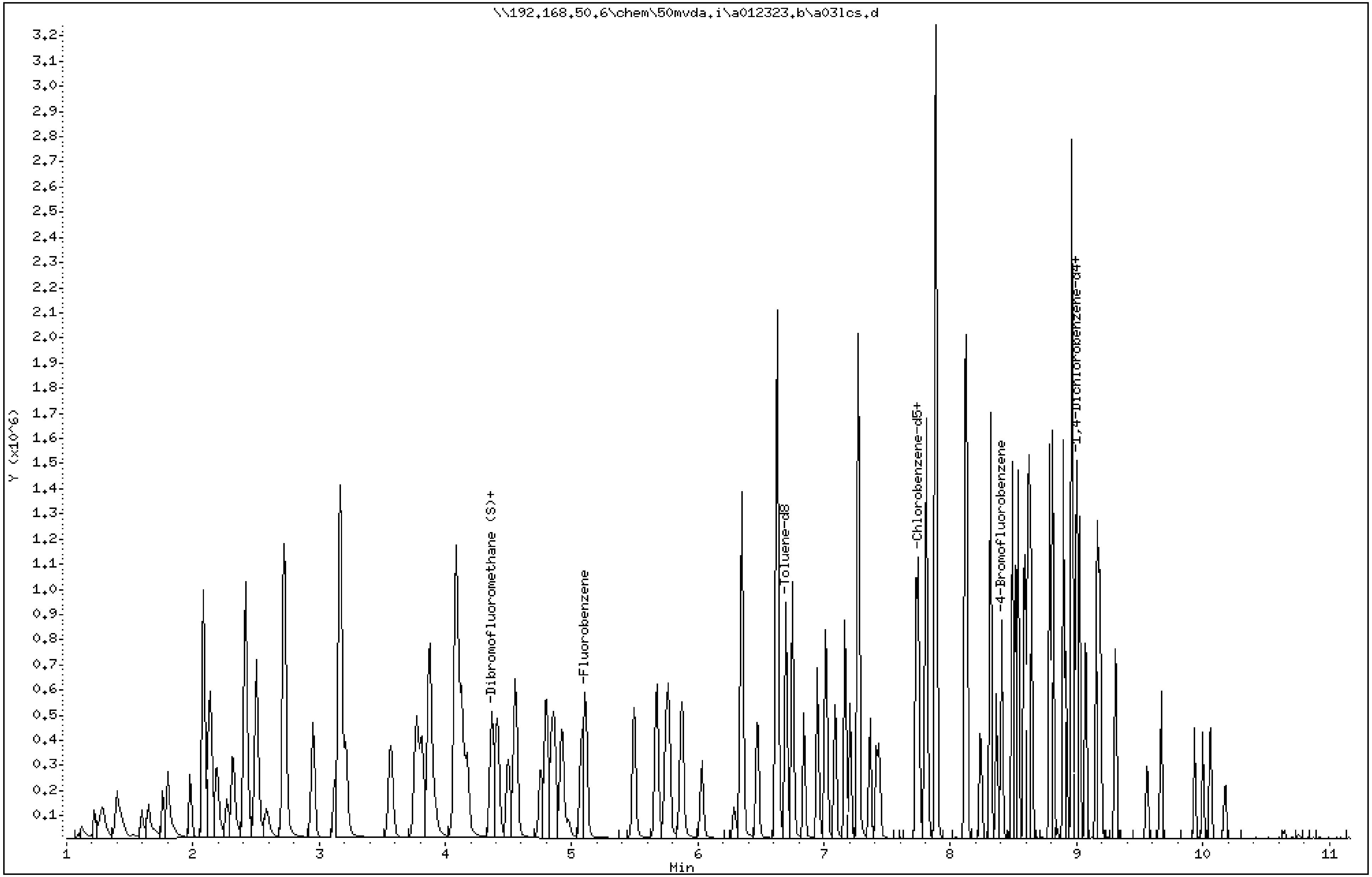
Date : 23-JAN-2023 11:36

Client ID: | Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 | Operator: tkg

Column phase: DB-624 | Column diameter: 0.18



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

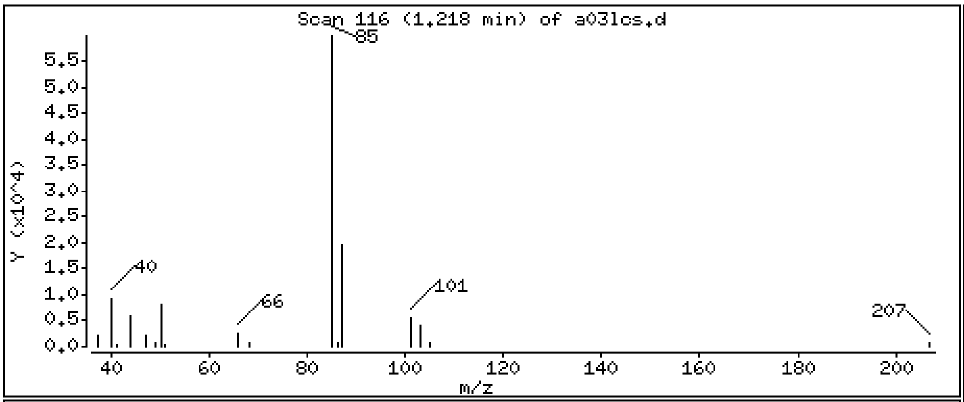
Column phase: DB-624

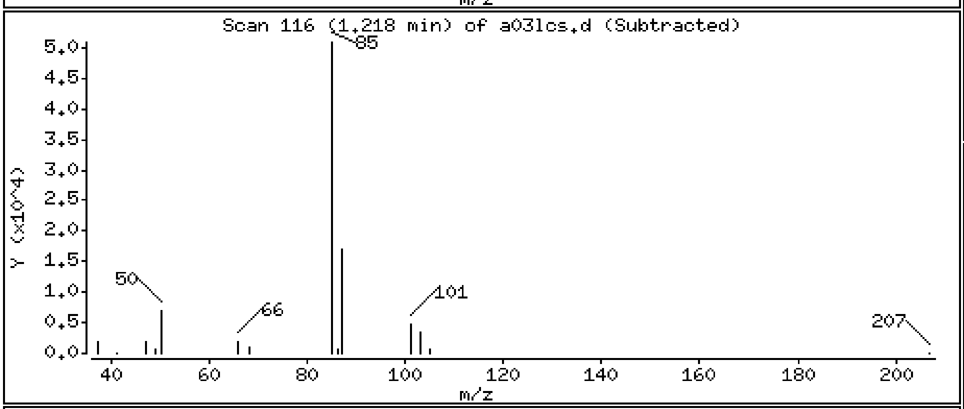
Column diameter: 0.18

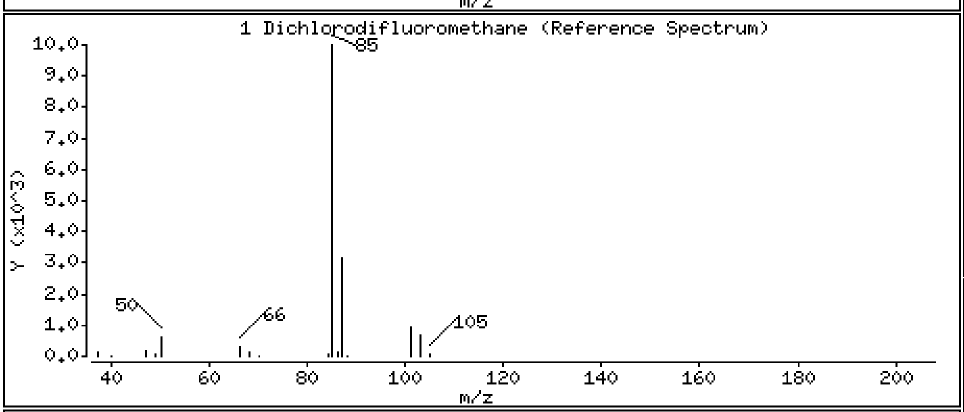
1 Dichlorodifluoromethane

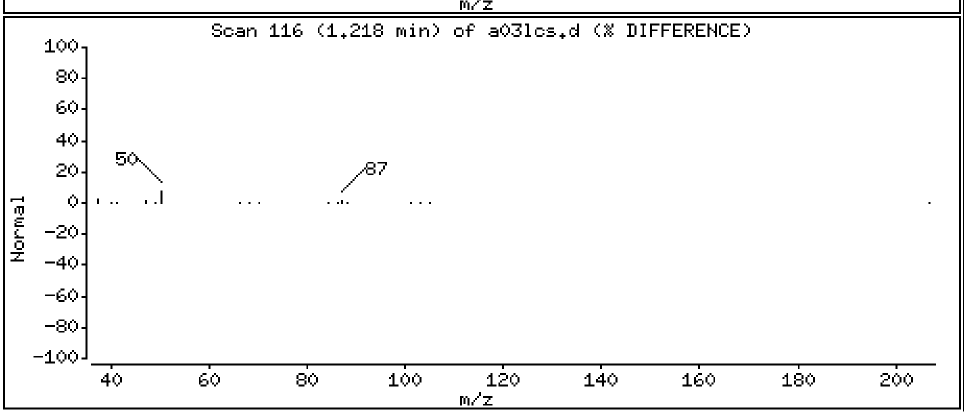
Concentration: 19.1 ppb

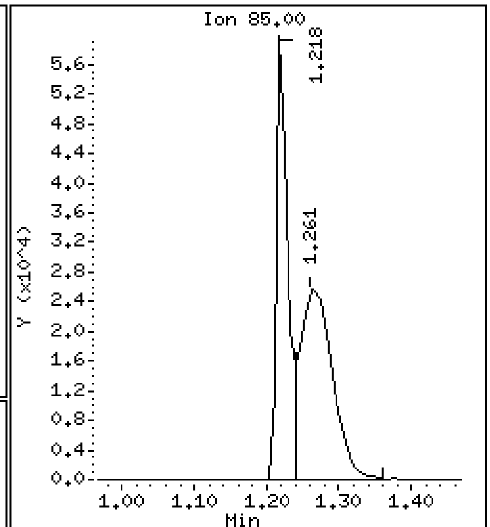
Review Code:

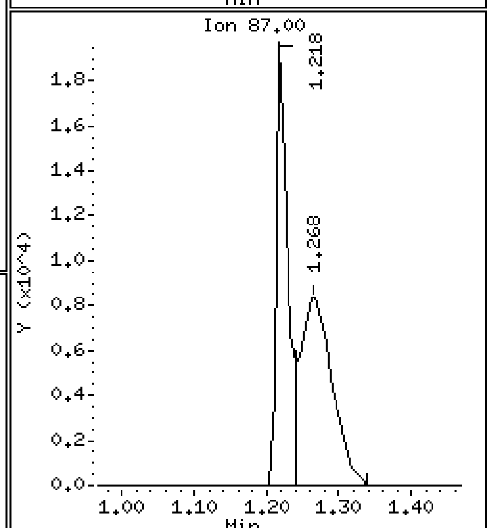


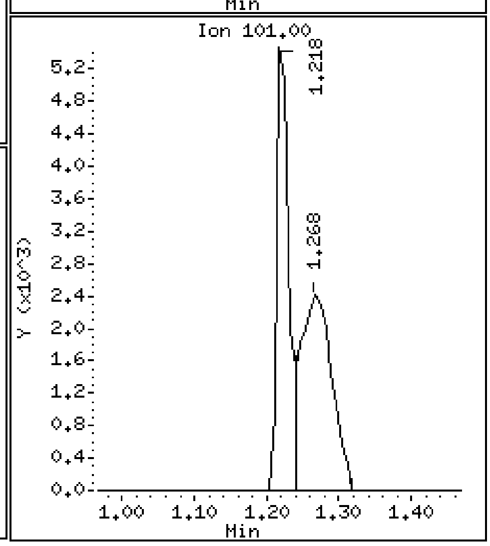












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

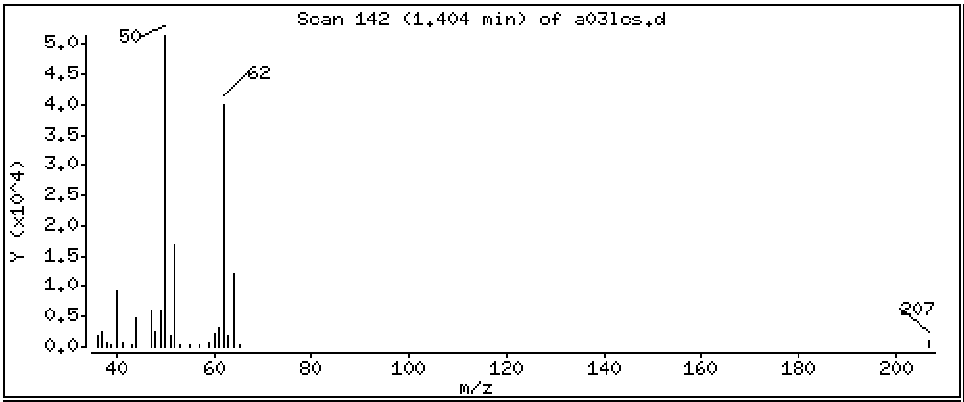
Column phase: DB-624

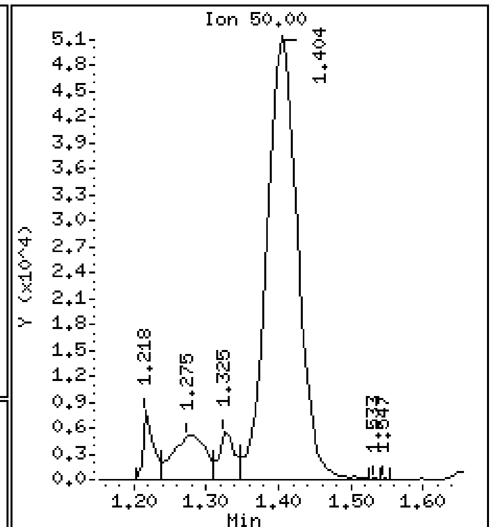
Column diameter: 0.18

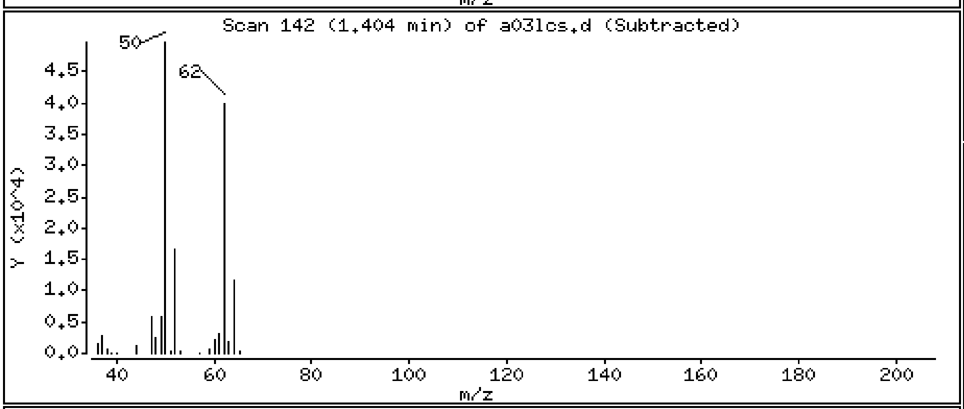
2 Chloromethane

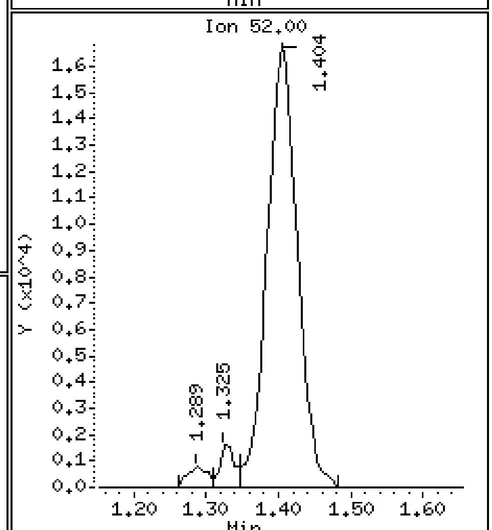
Concentration: 42.0 ppb

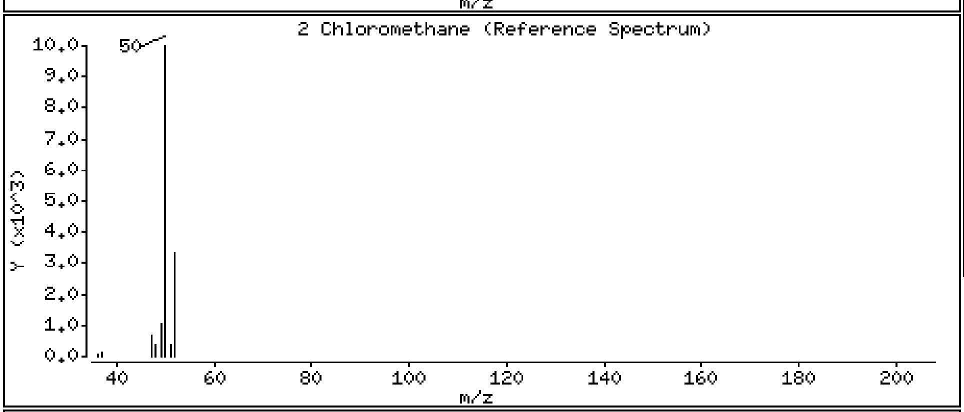
Review Code:

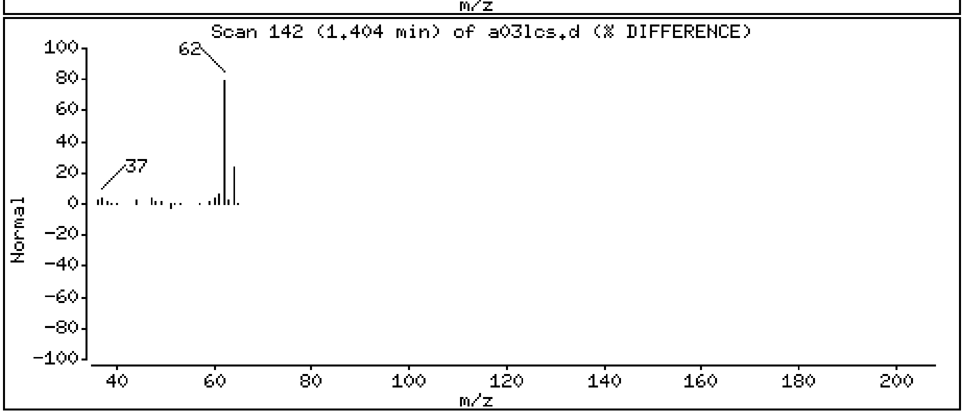












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Date : 23-JAN-2023 11:36

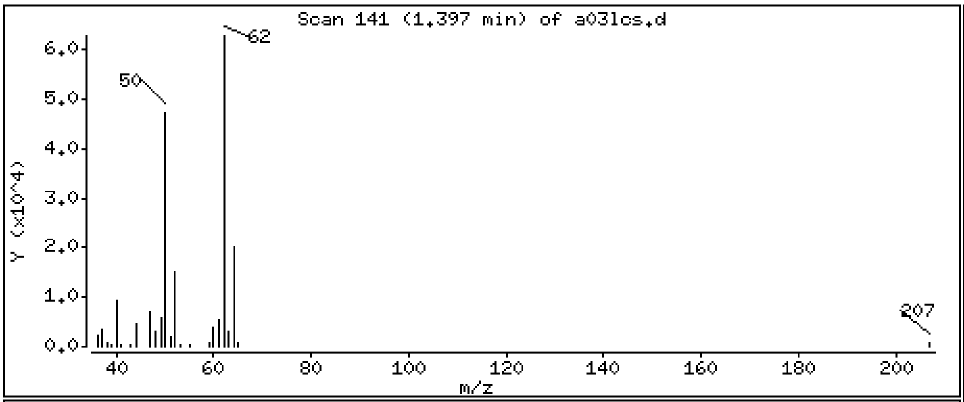
Client ID: Instrument: 50mvda.i

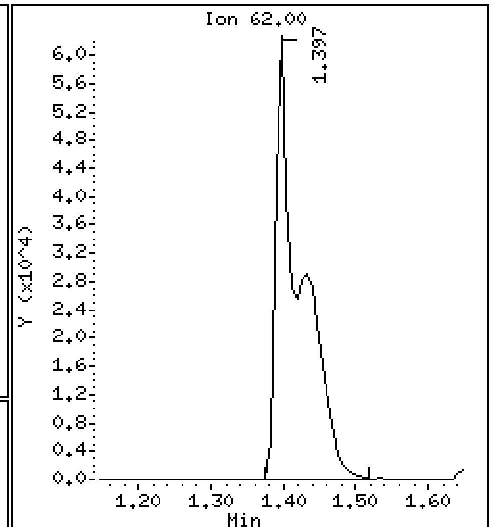
Sample Info: 3287446,336256:5

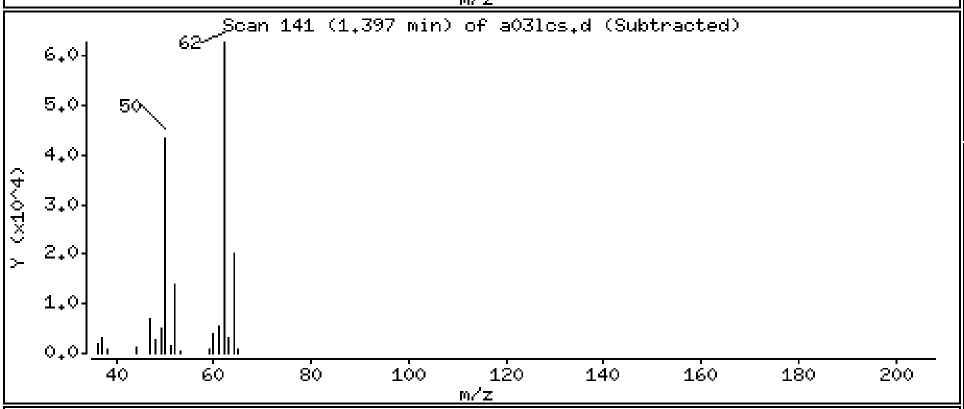
Purge Volume: 5.0 Operator: tkg

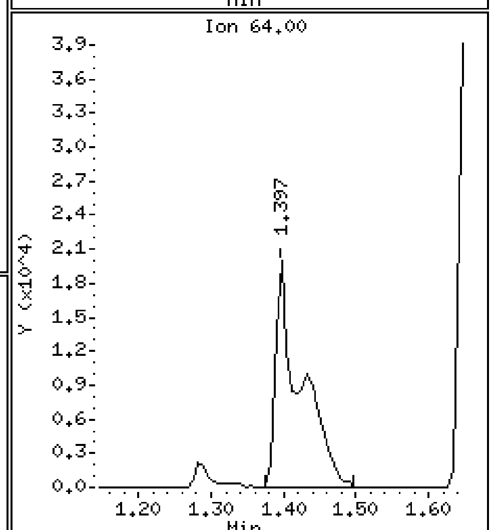
Column phase: DB-624 Column diameter: 0.18

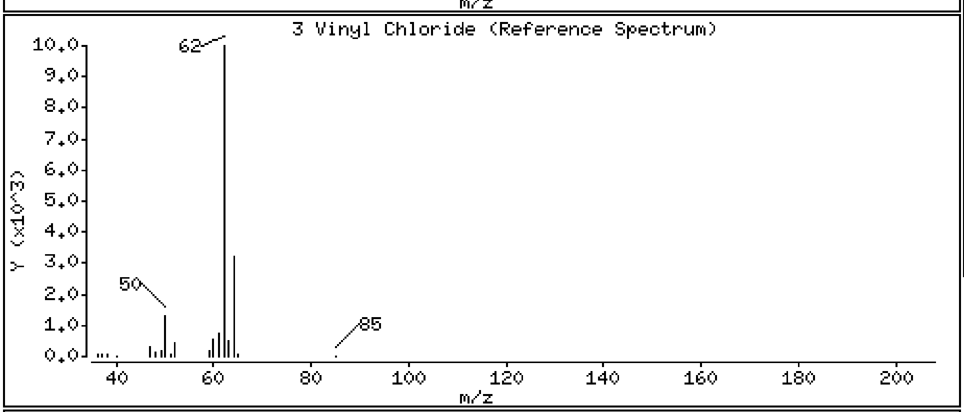
3 Vinyl Chloride Concentration: 43.1 ppb Review Code:

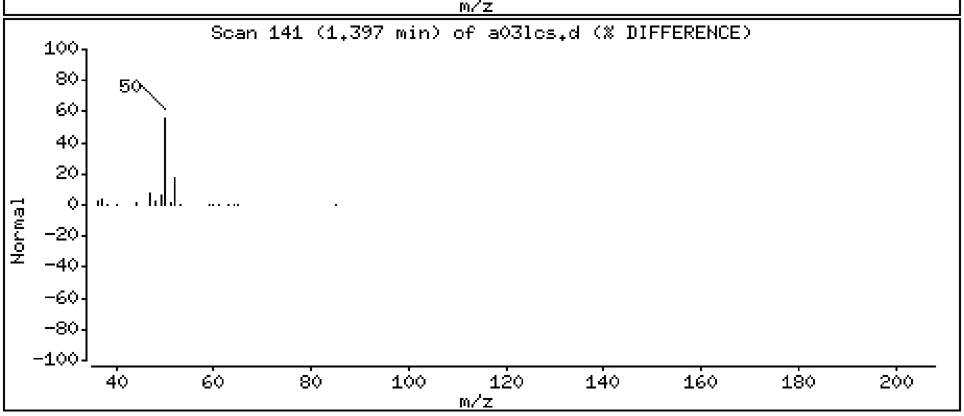












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

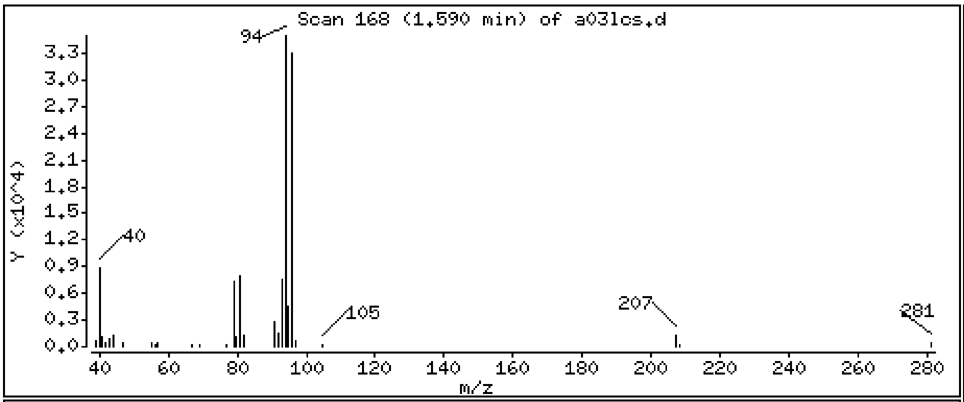
Column phase: DB-624

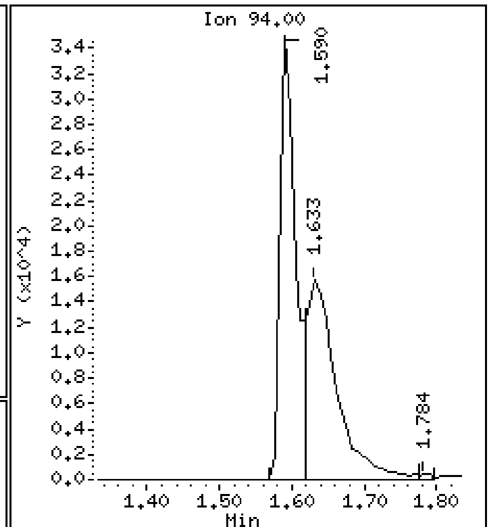
Column diameter: 0.18

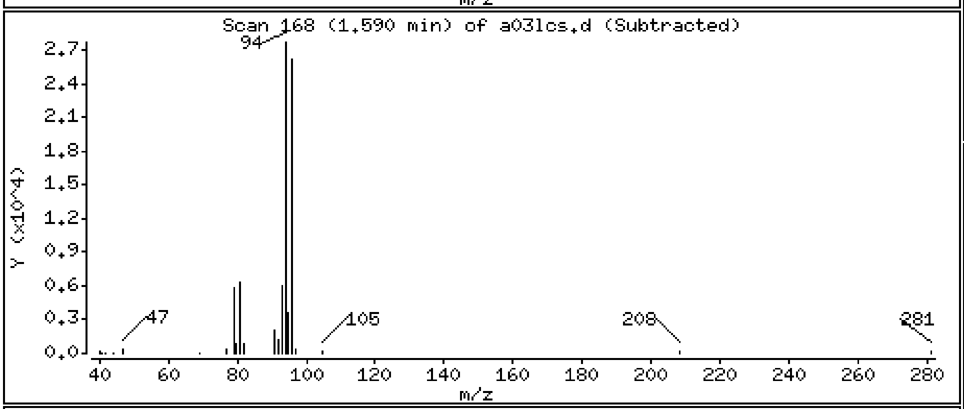
4 Bromomethane

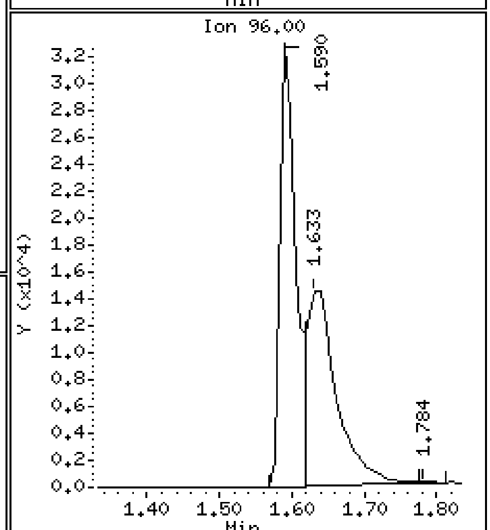
Concentration: 23.8 ppb

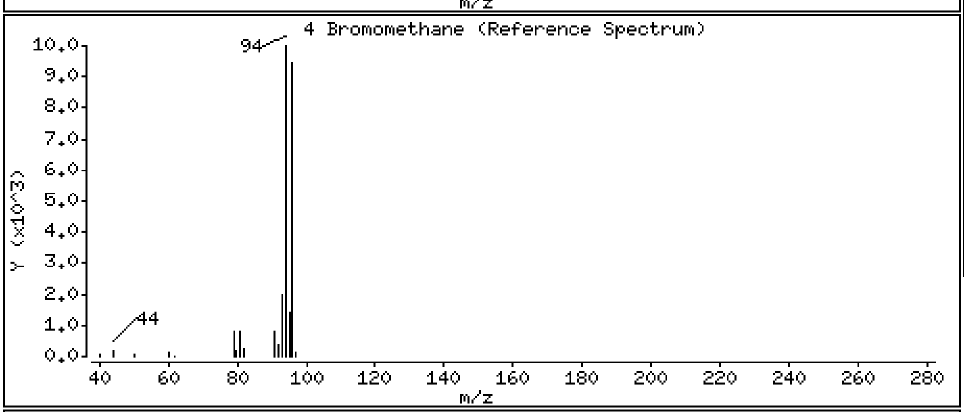
Review Code:

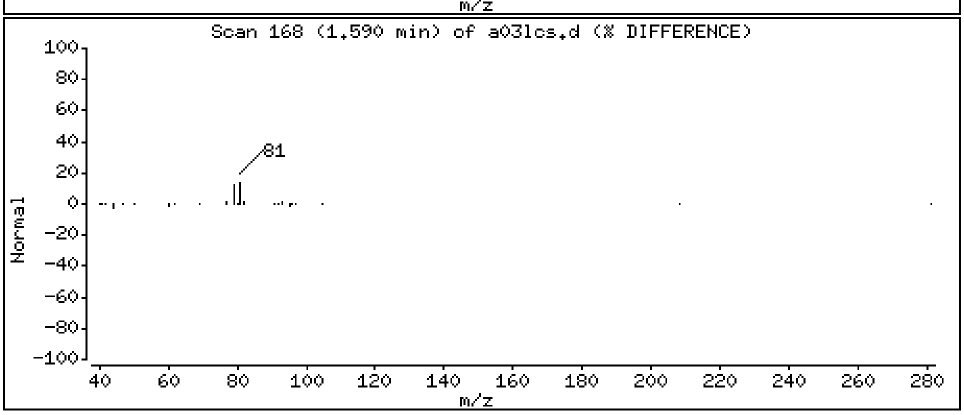












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Date : 23-JAN-2023 11:36

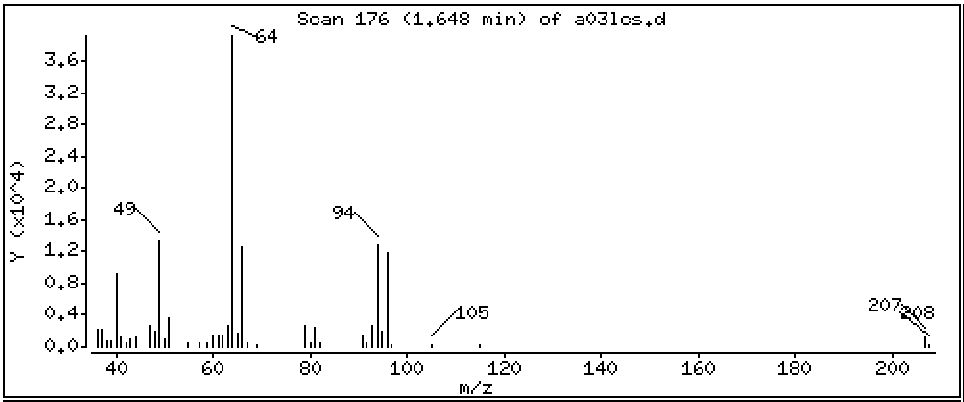
Client ID: Instrument: 50mvda.i

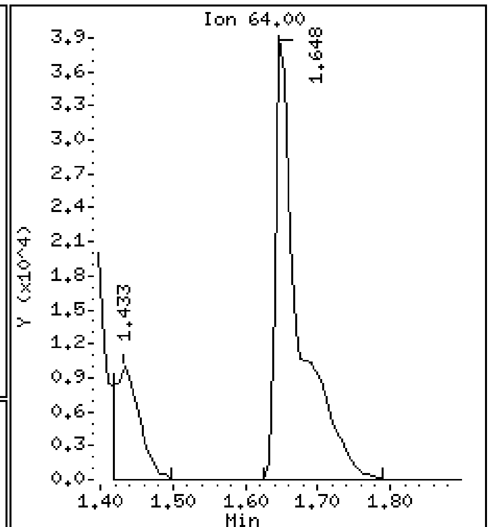
Sample Info: 3287446,336256:5

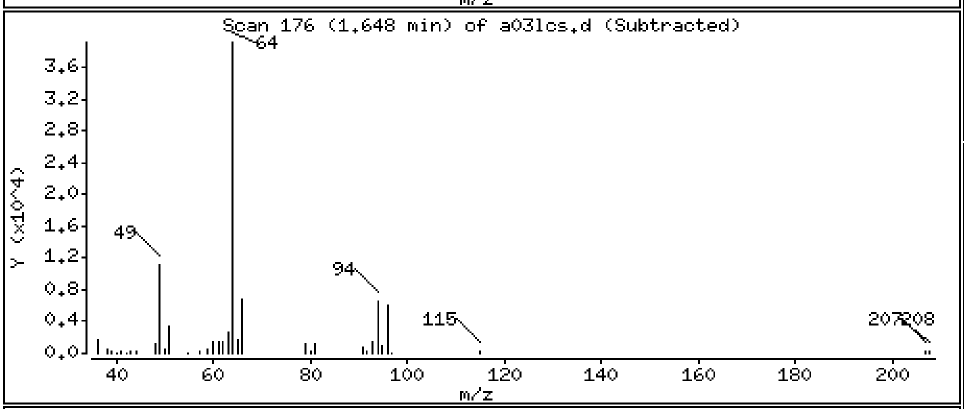
Purge Volume: 5.0 Operator: tkg

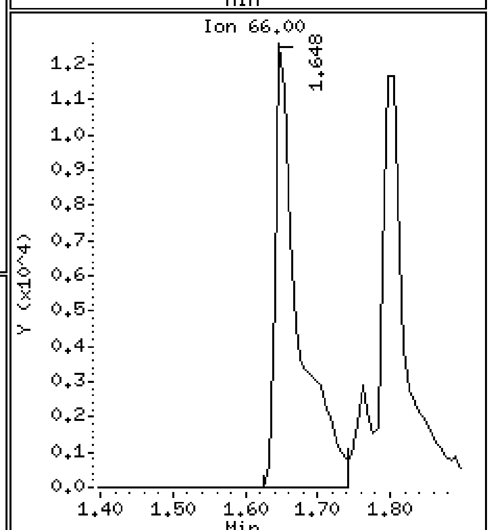
Column phase: DB-624 Column diameter: 0.18

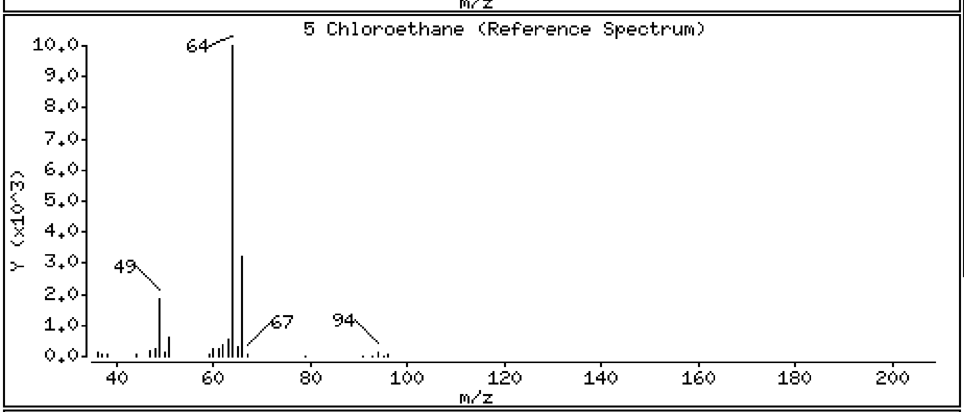
5 Chloroethane Concentration: 42.8 ppb Review Code:

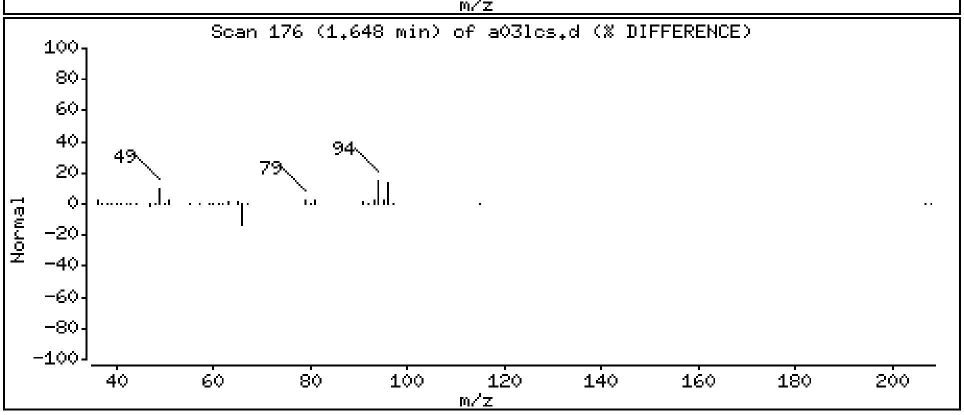












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

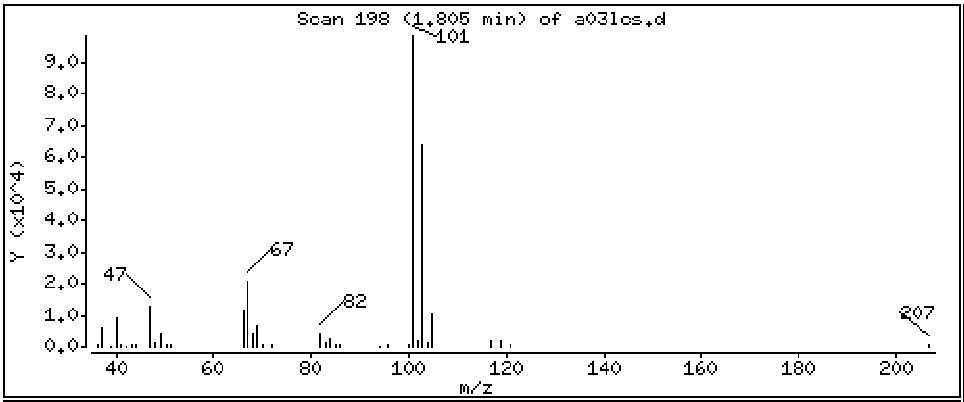
Column phase: DB-624

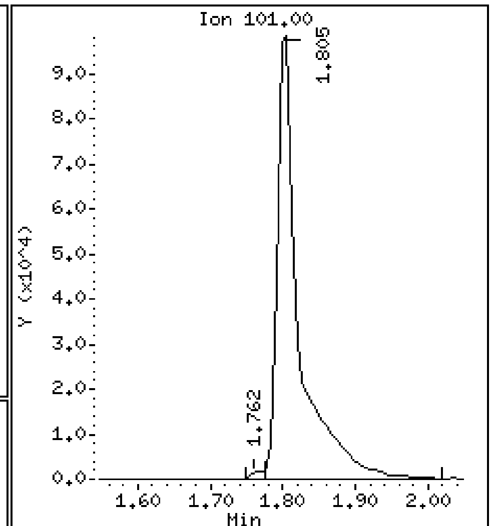
Column diameter: 0.18

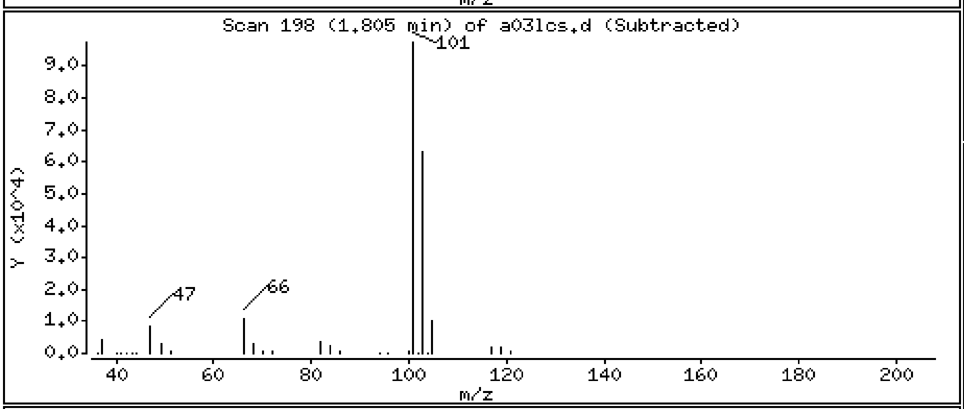
6 Trichlorofluoromethane

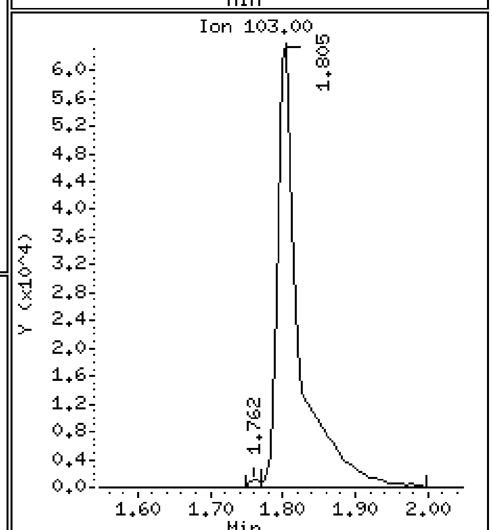
Concentration: 49.9 ppb

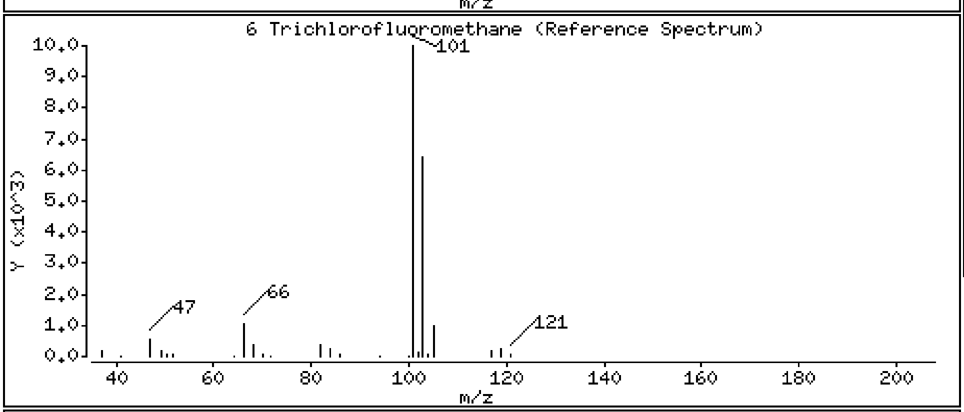
Review Code:

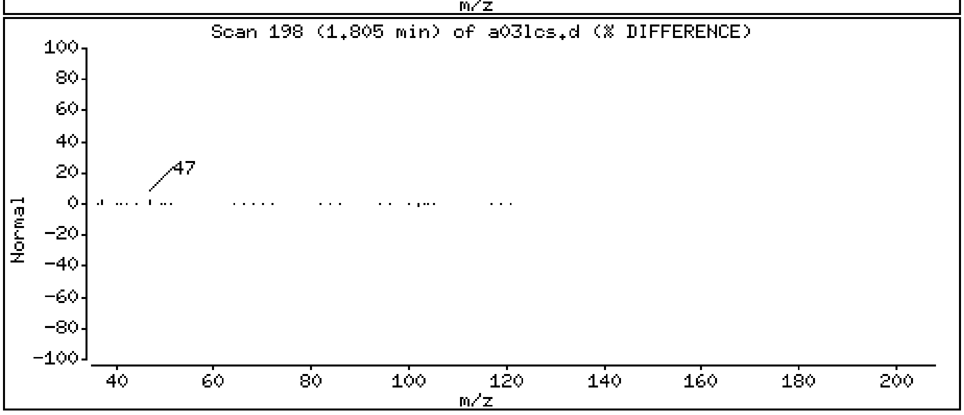












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

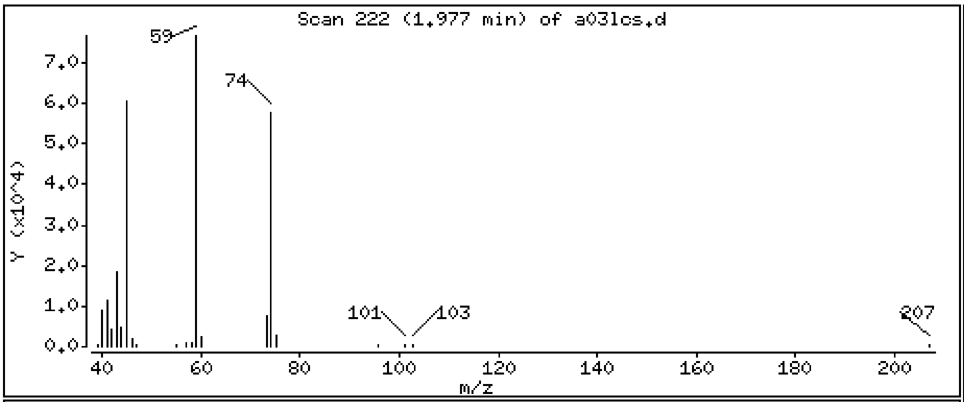
Column phase: DB-624

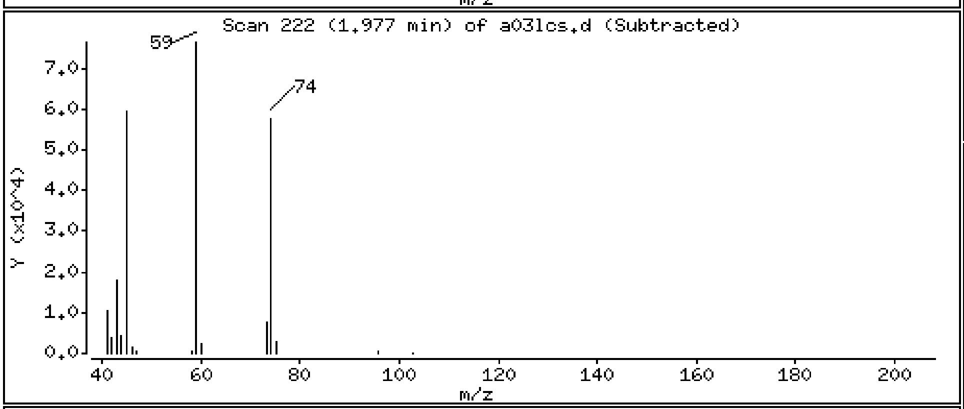
Column diameter: 0.18

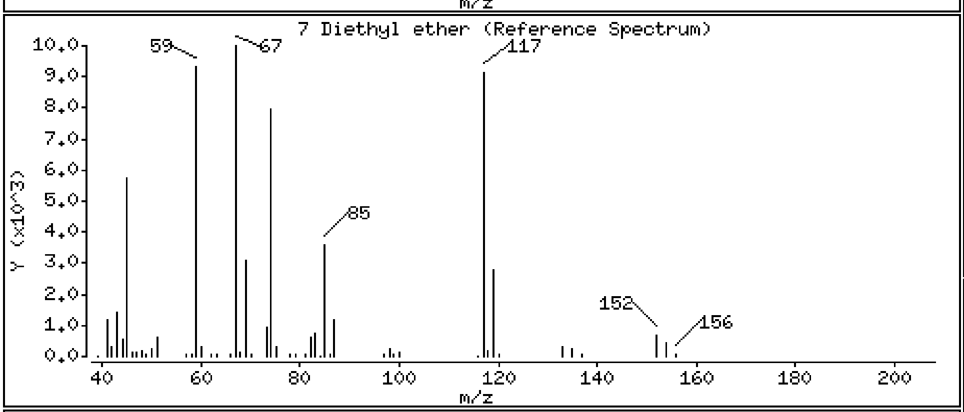
7 Diethyl ether

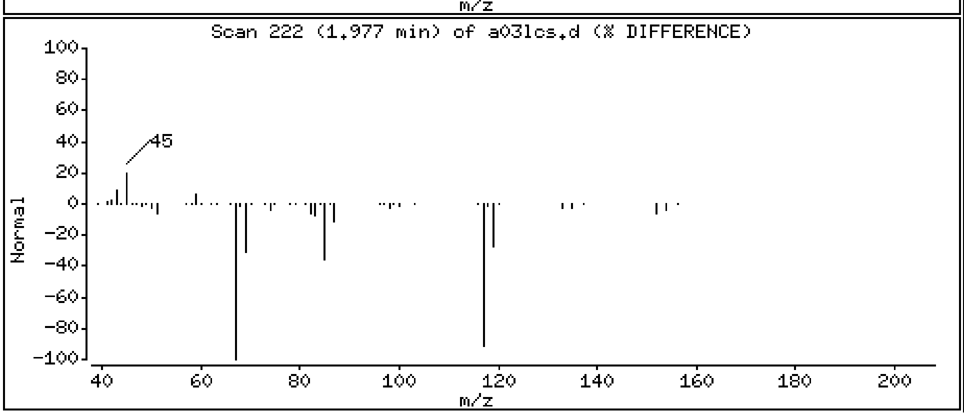
Concentration: 41.7 ppb

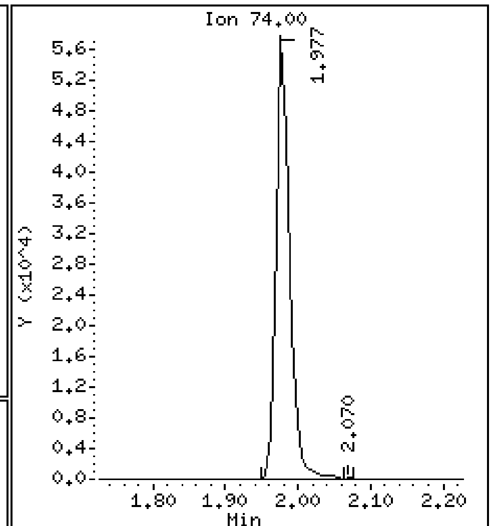
Review Code:

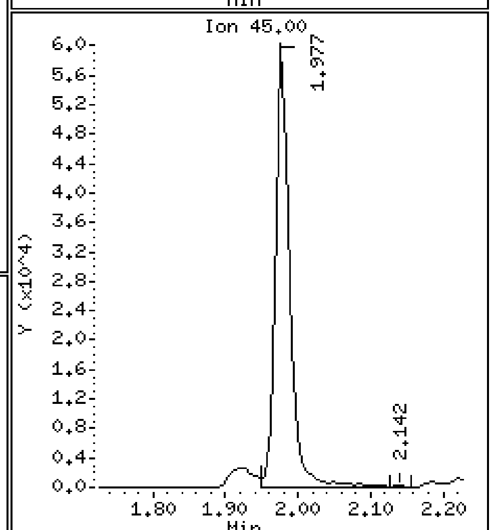


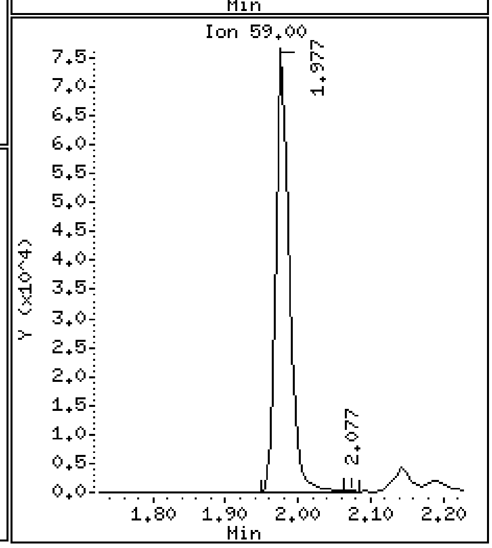












Date : 23-JAN-2023 11:36

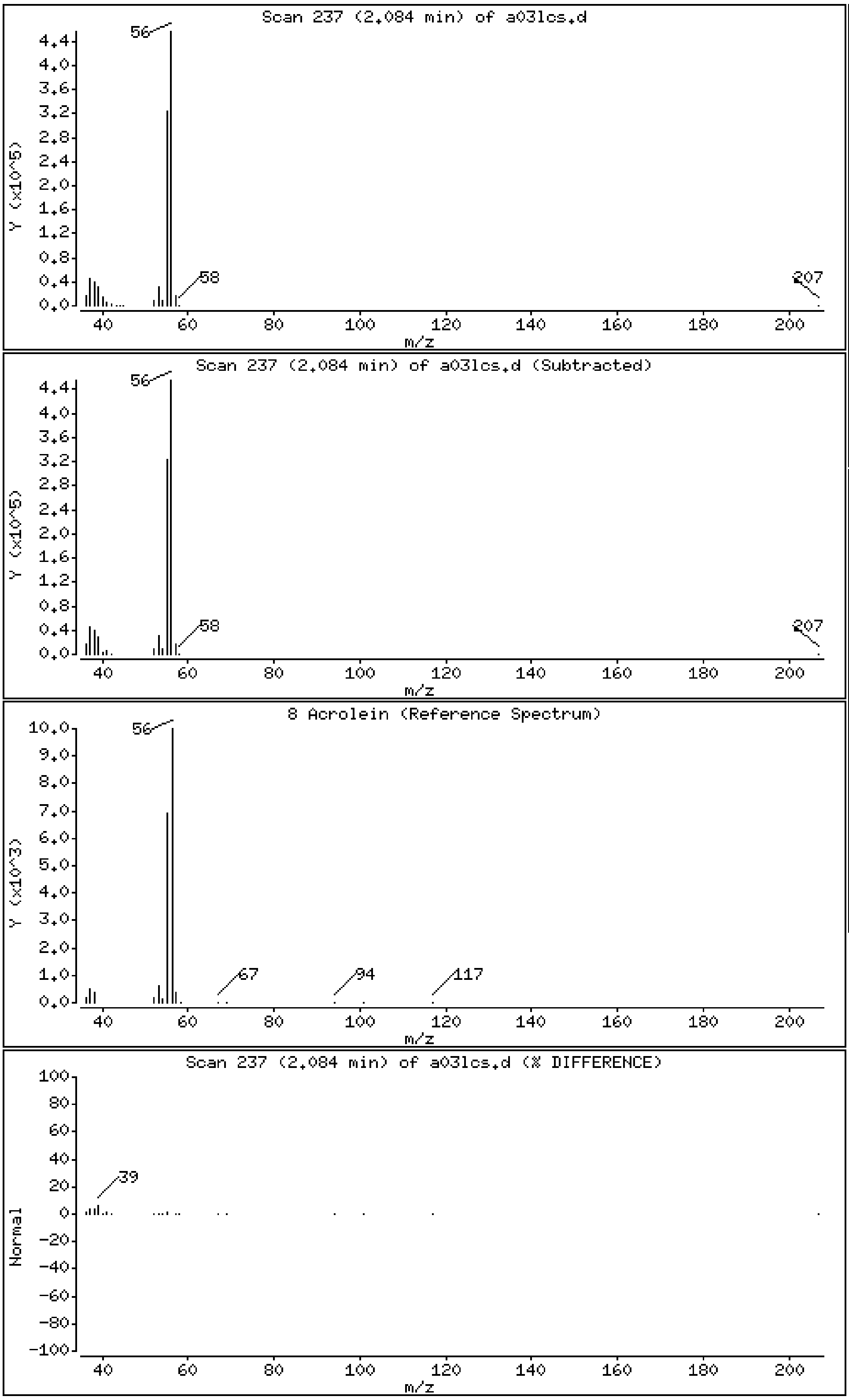
Client ID: Instrument: 50mvda.i

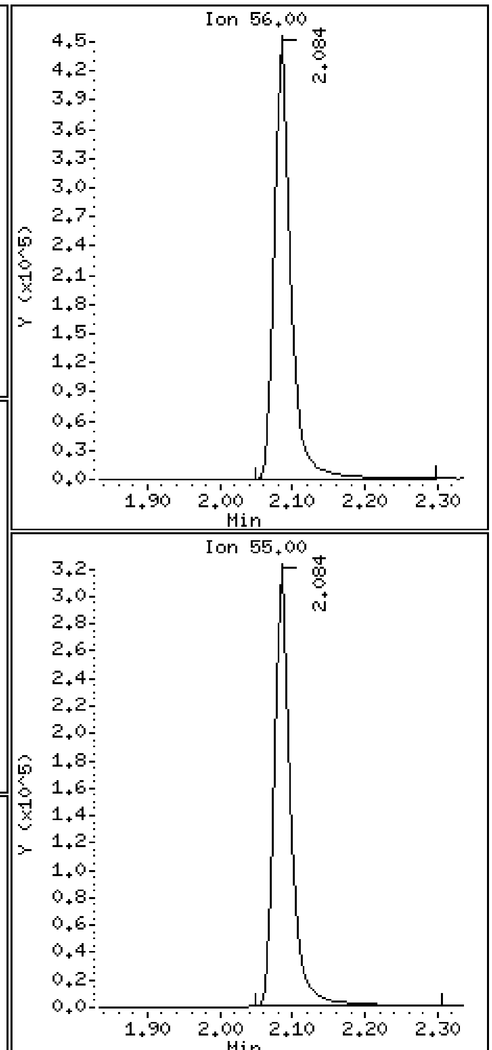
Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

8 Acrolein Concentration: 884 ppb Review Code:





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Date : 23-JAN-2023 11:36

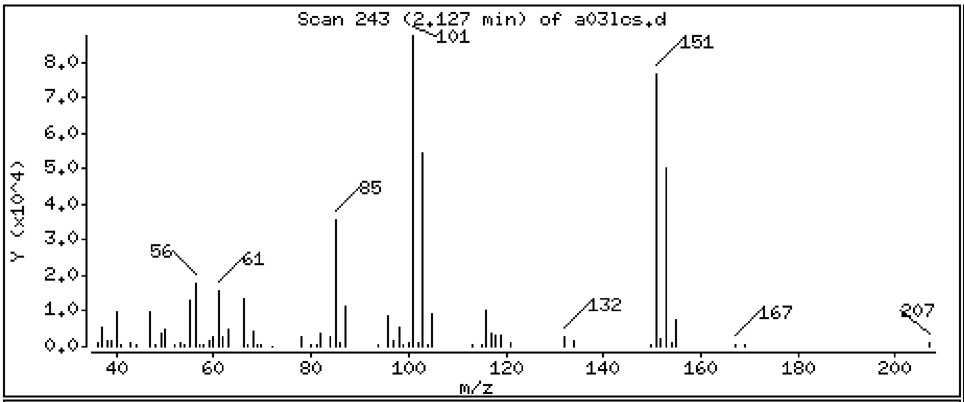
Client ID: Instrument: 50mvda.i

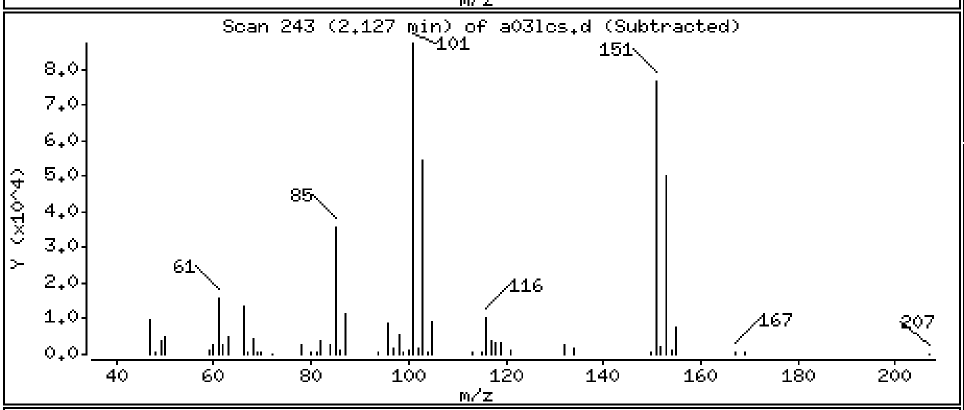
Sample Info: 3287446,336256:5

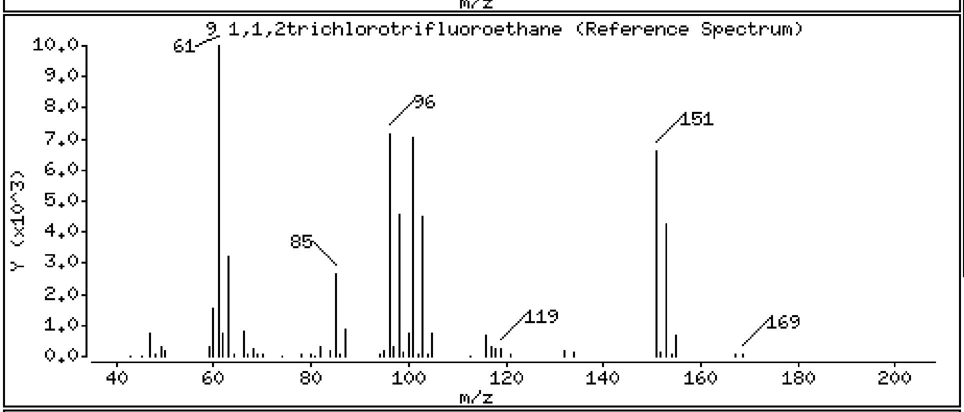
Purge Volume: 5.0 Operator: tkg

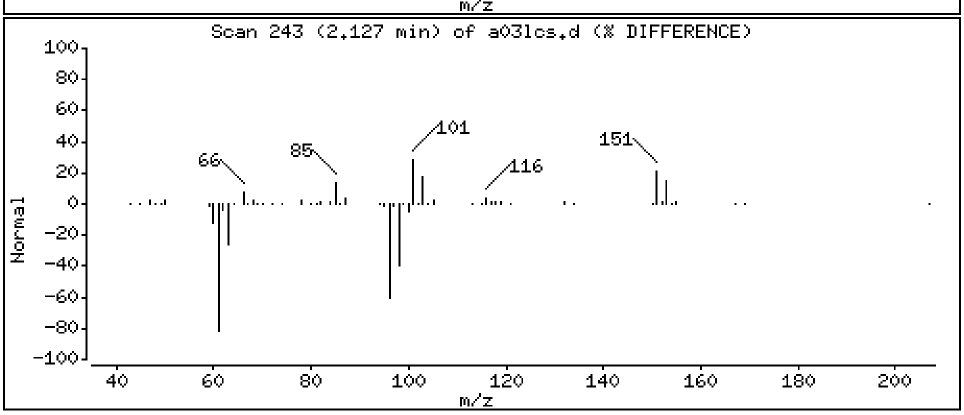
Column phase: DB-624 Column diameter: 0.18

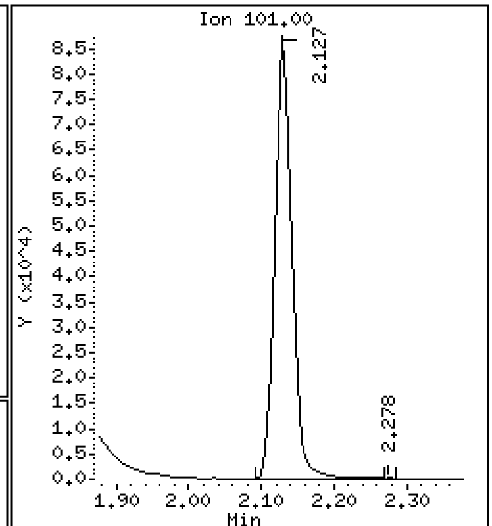
9 1,1,2trichlorotrifluoroethane Concentration: 52.1 ppb Review Code:

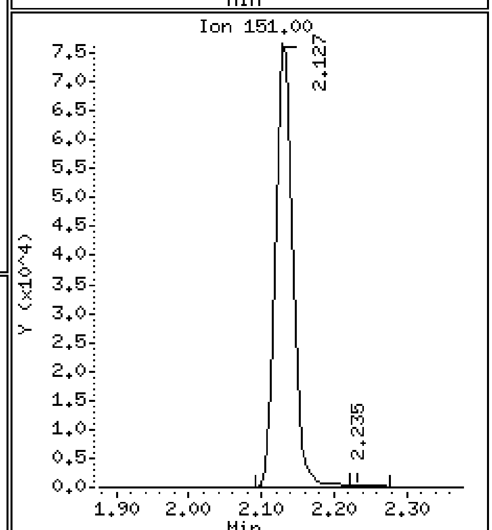












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Date : 23-JAN-2023 11:36

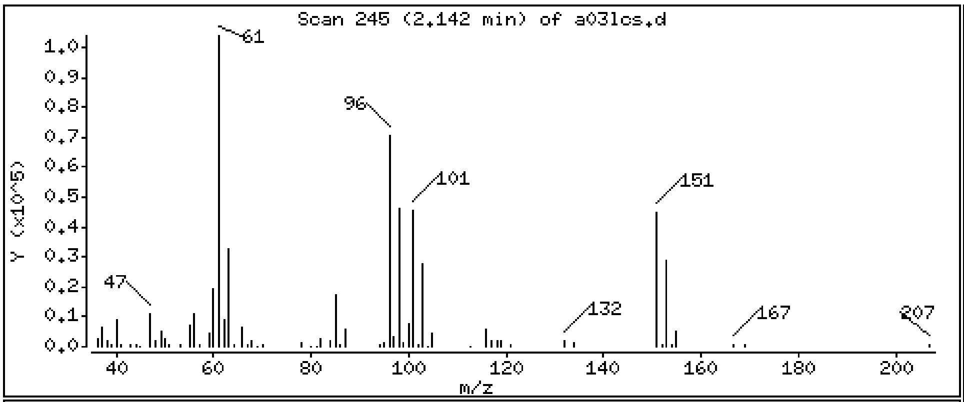
Client ID: Instrument: 50mvda.i

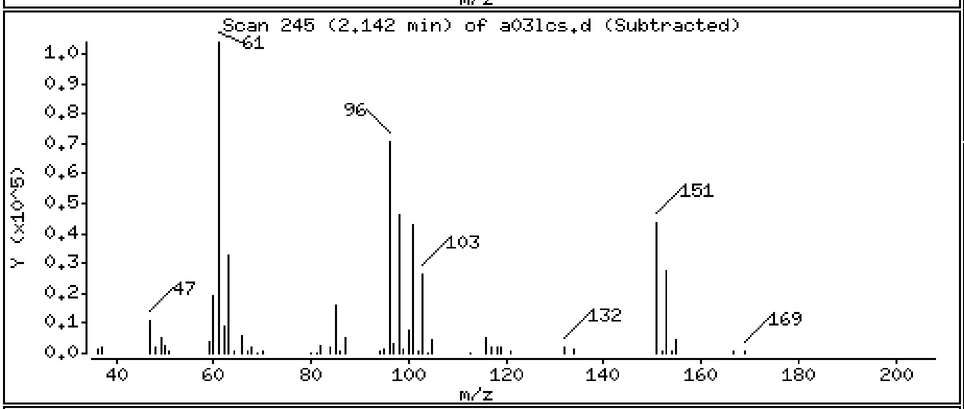
Sample Info: 3287446,336256:5

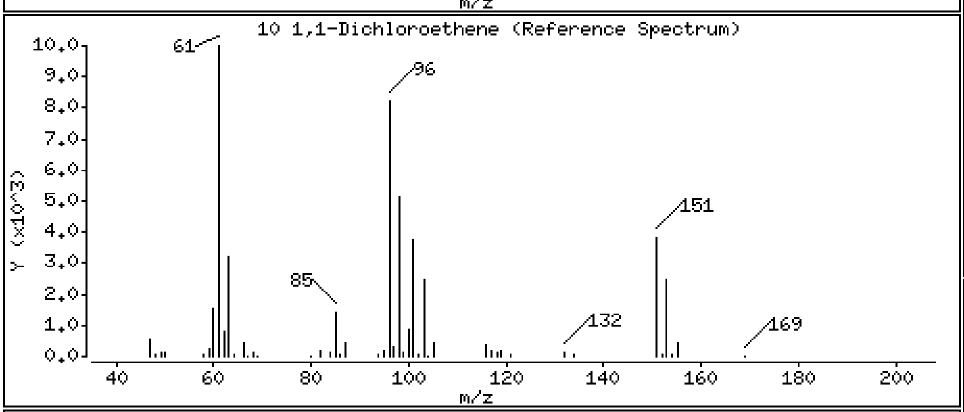
Purge Volume: 5.0 Operator: tkg

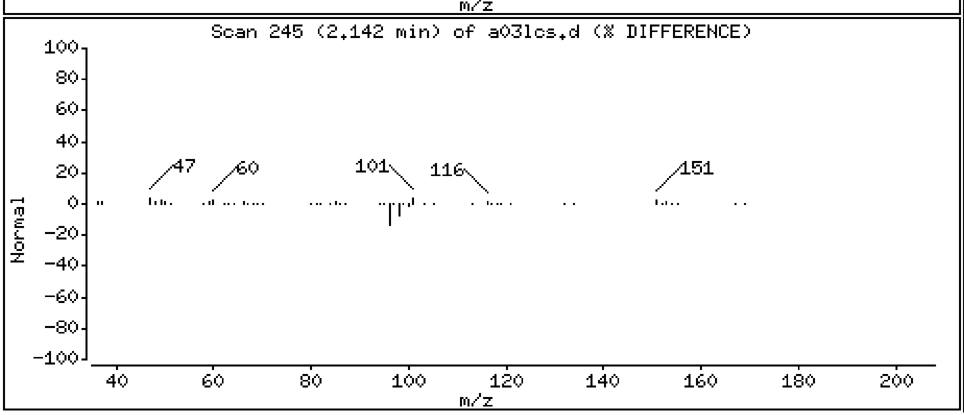
Column phase: DB-624 Column diameter: 0.18

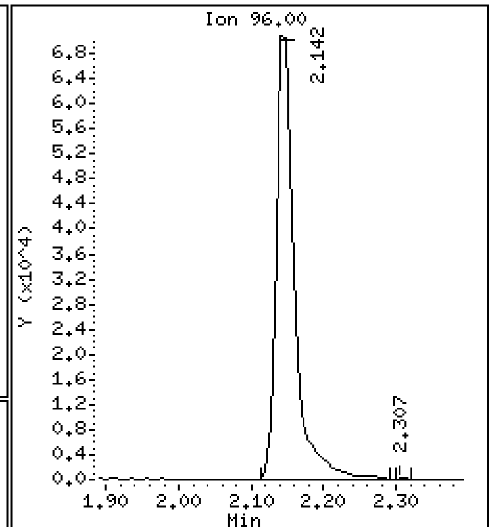
10 1,1-Dichloroethene Concentration: 44.4 ppb Review Code:

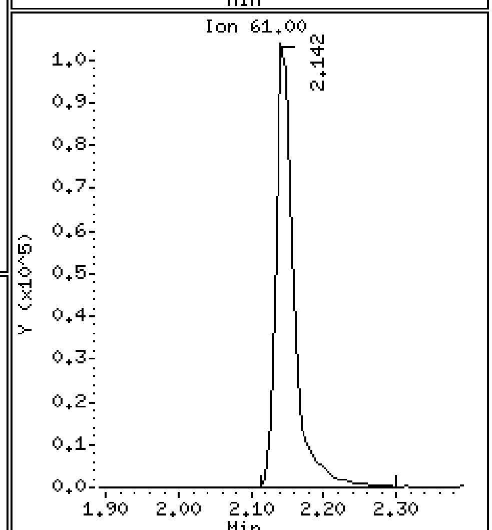


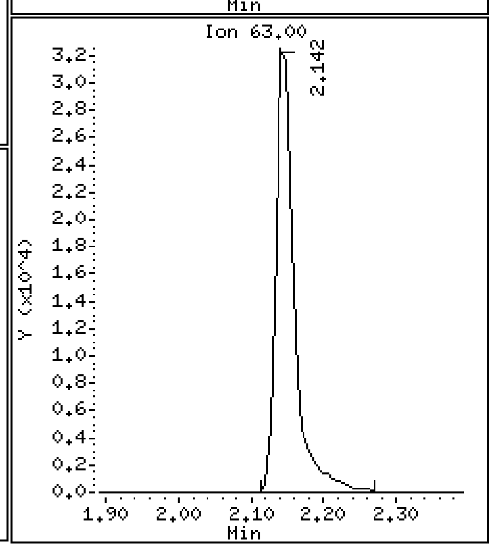












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Date : 23-JAN-2023 11:36

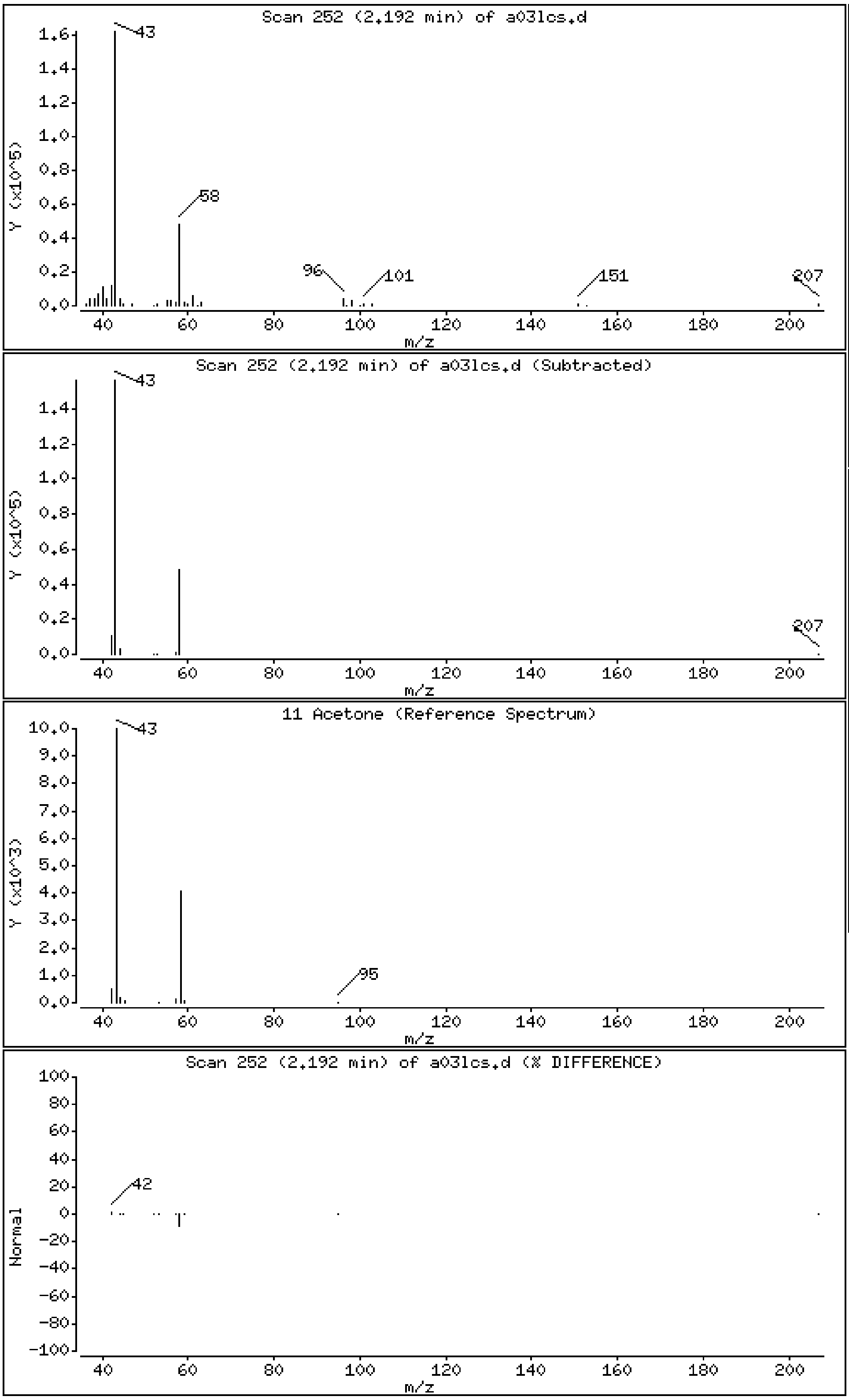
Client ID: Instrument: 50mvda.i

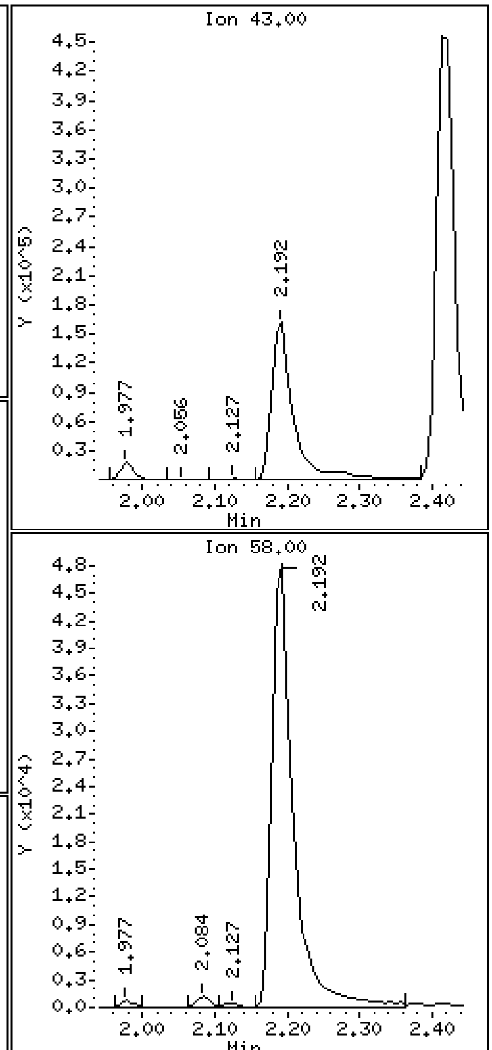
Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

11 Acetone Concentration: 204 ppb Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

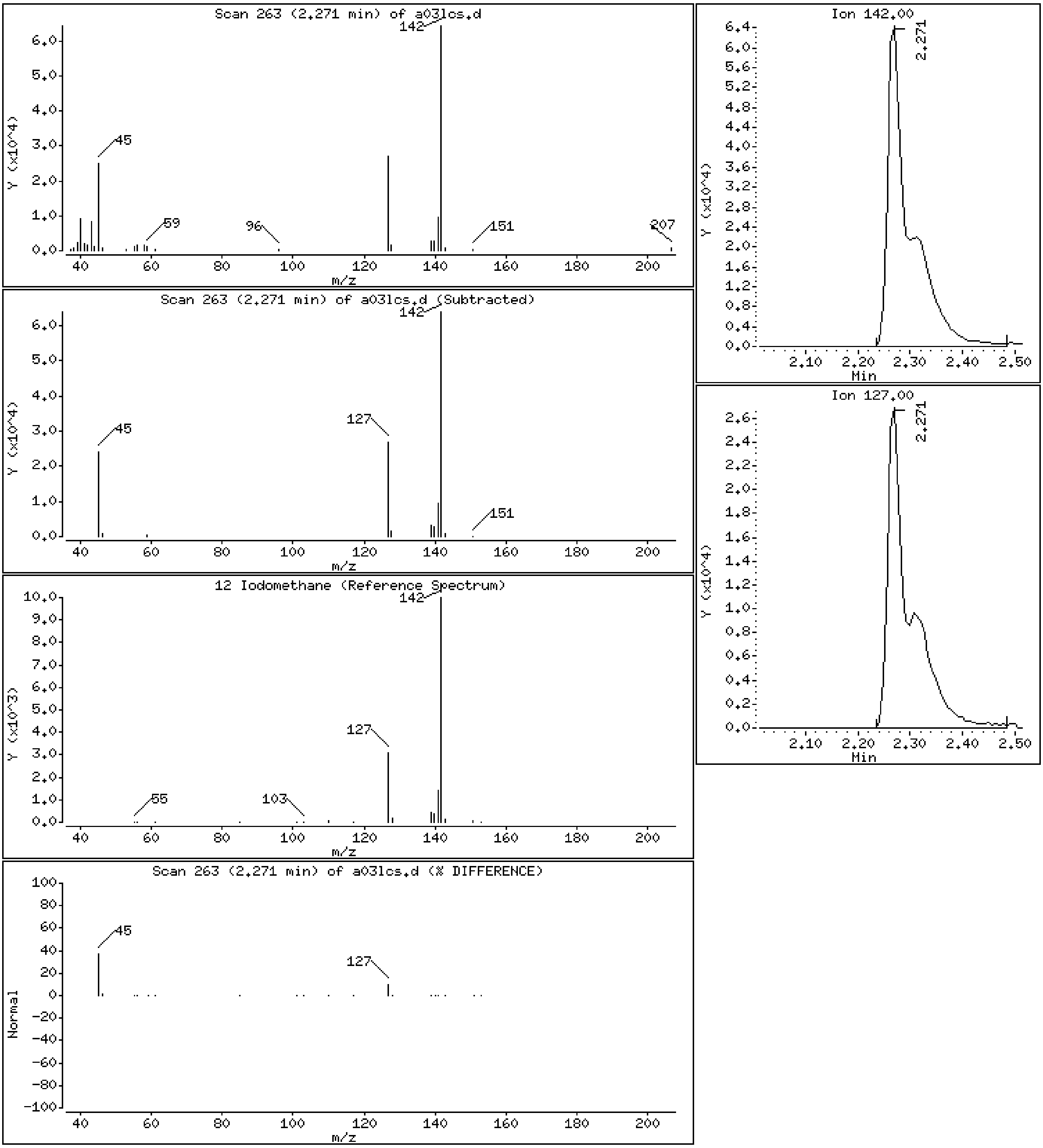
Column phase: DB-624

Column diameter: 0.18

12 Iodomethane

Concentration: 72.1 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

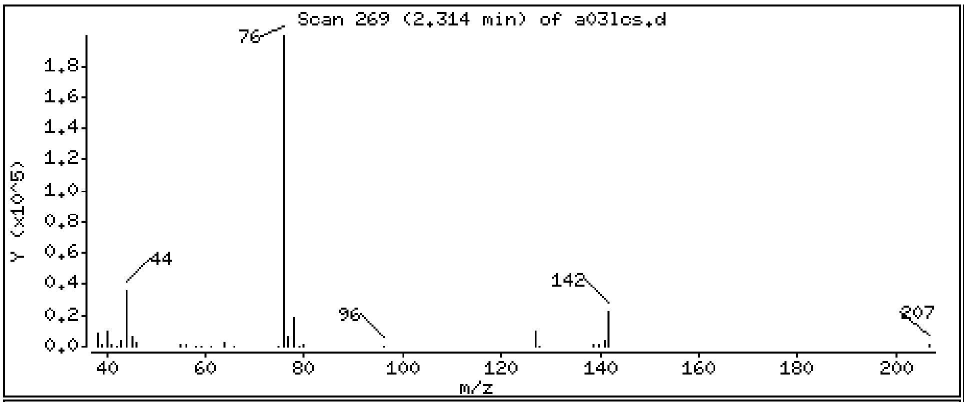
Column phase: DB-624

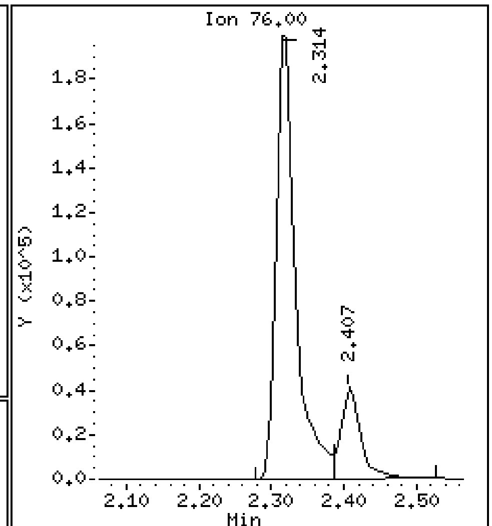
Column diameter: 0.18

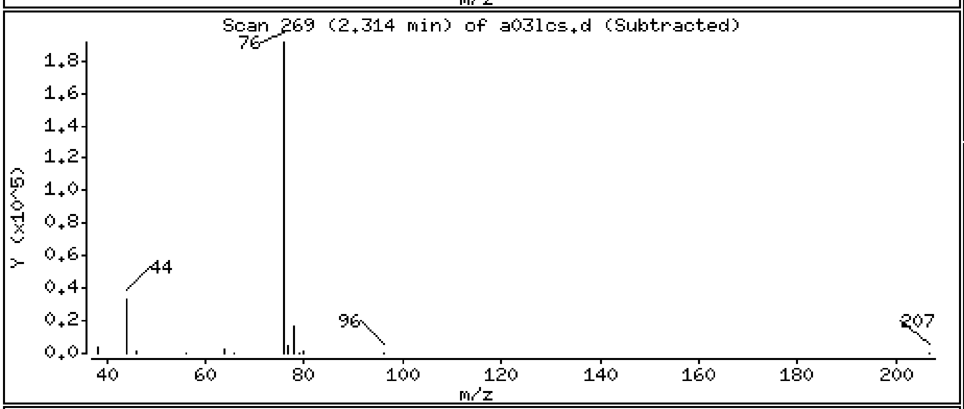
13 Carbon Disulfide

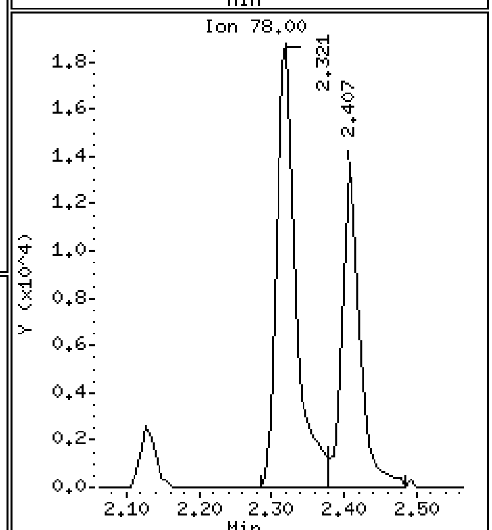
Concentration: 44.7 ppb

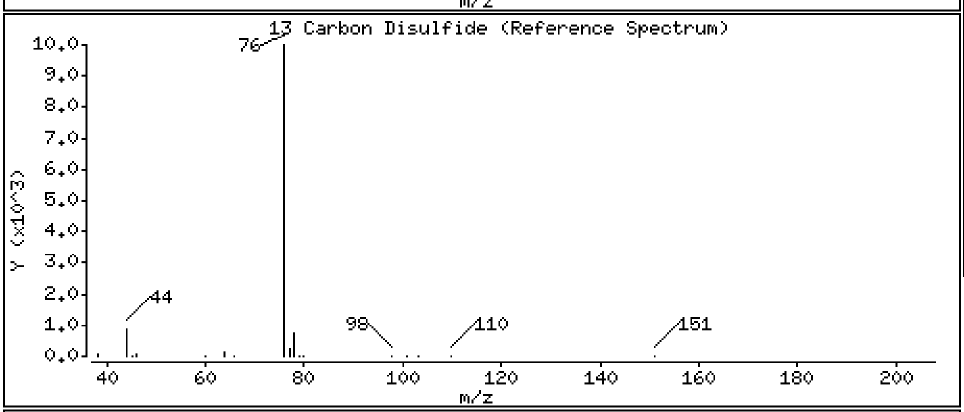
Review Code:

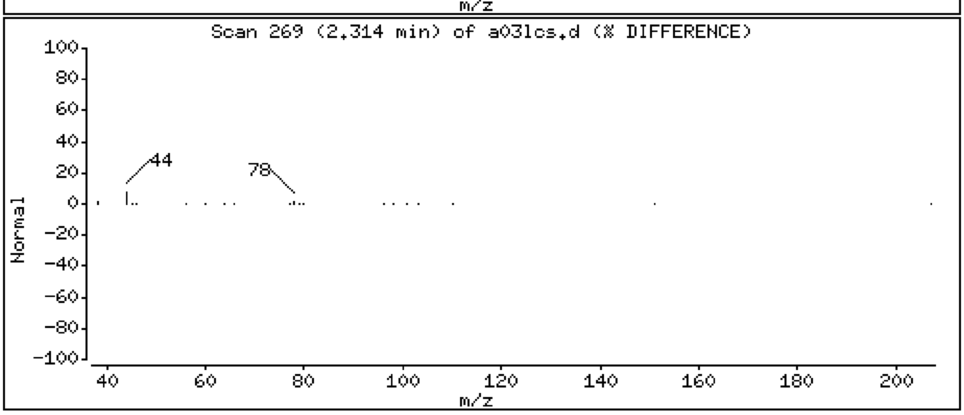












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

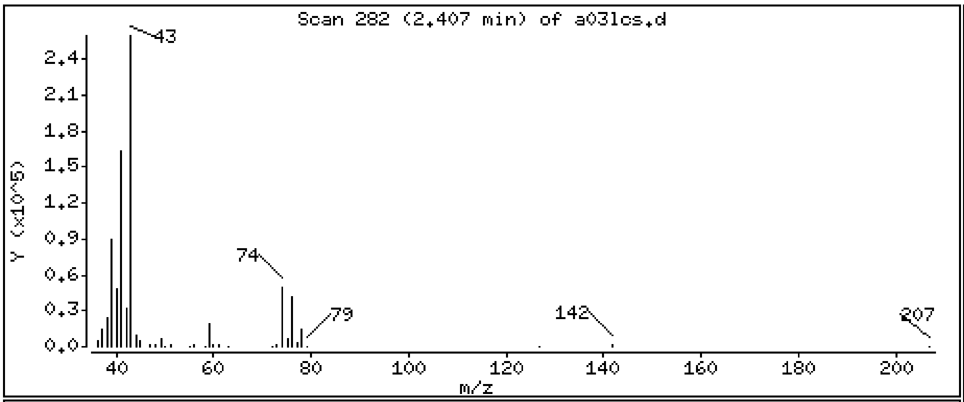
Column phase: DB-624

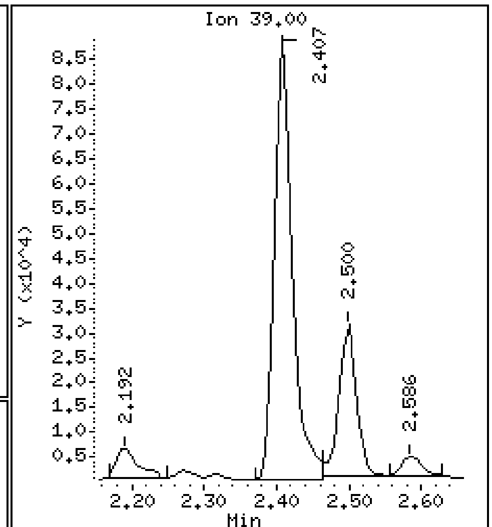
Column diameter: 0.18

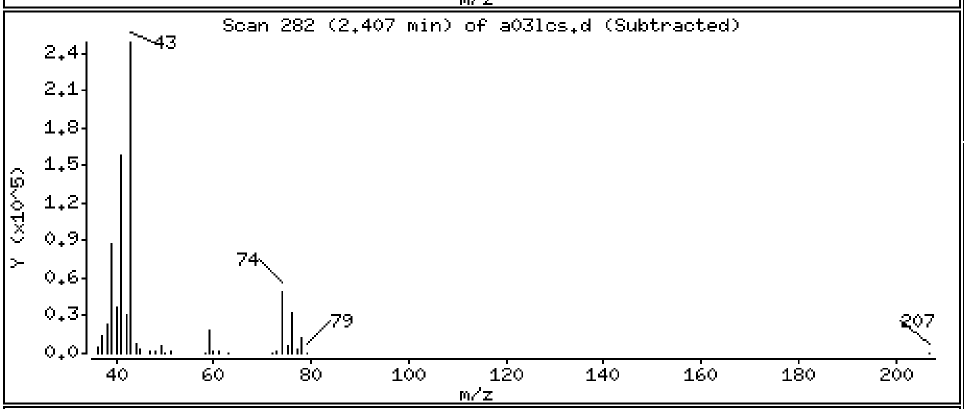
14 Acetonitrile

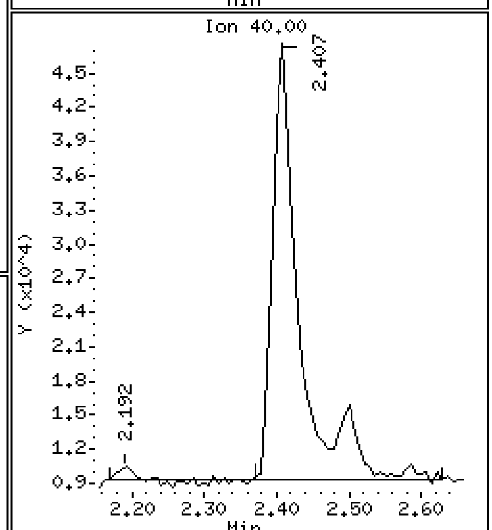
Concentration: 227 ppb

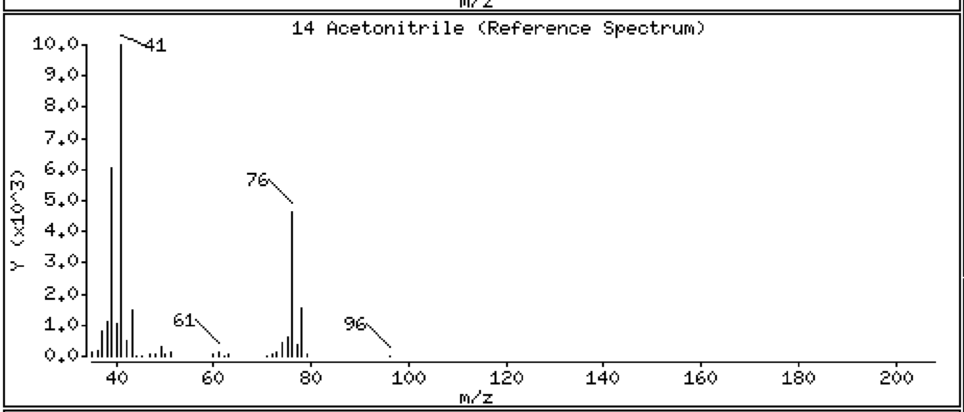
Review Code:

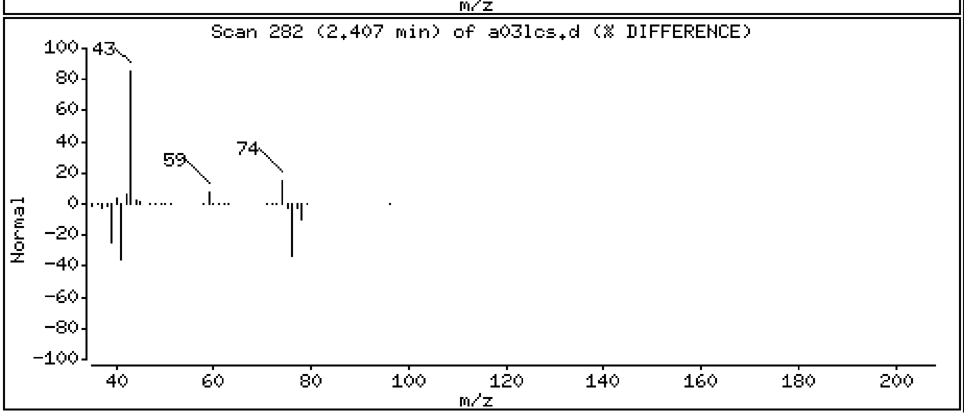


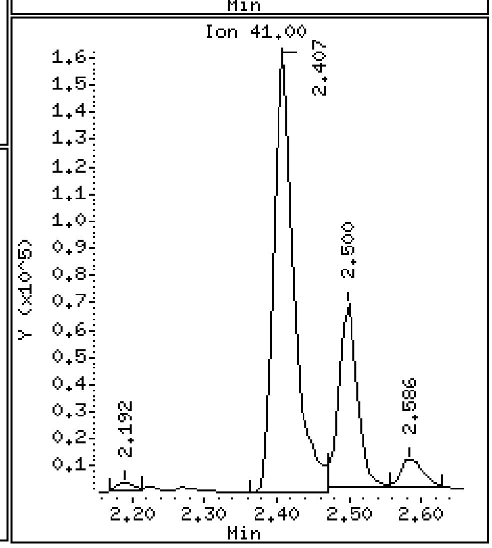












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Date : 23-JAN-2023 11:36

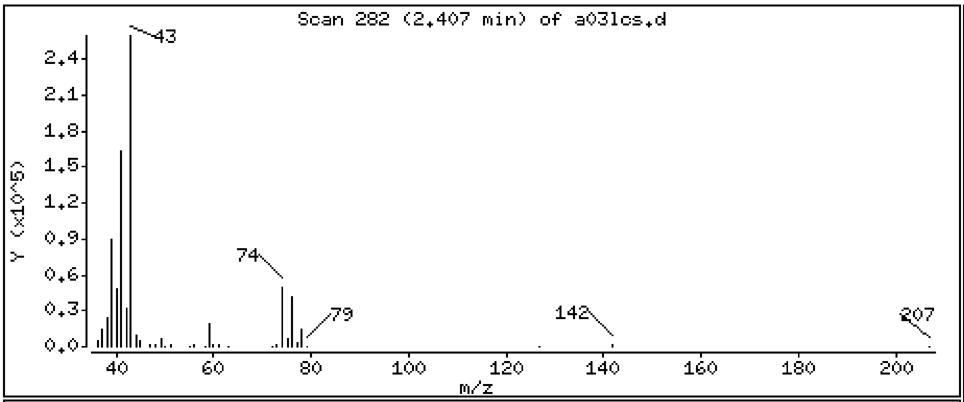
Client ID: Instrument: 50mvda.i

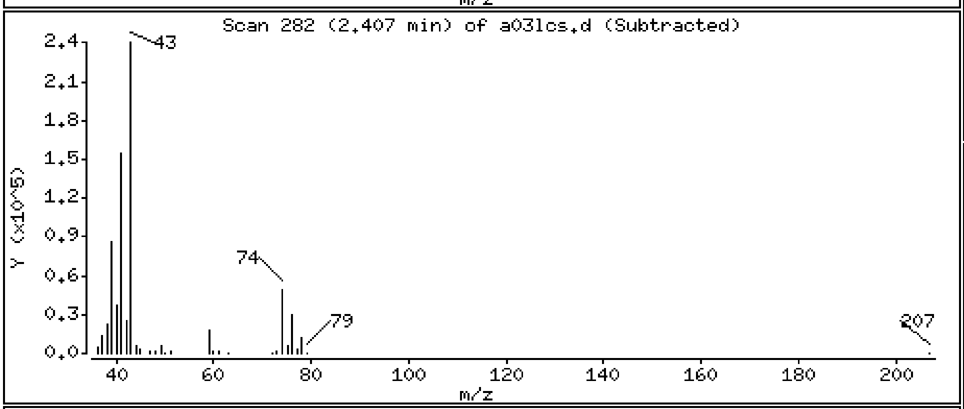
Sample Info: 3287446,336256:5

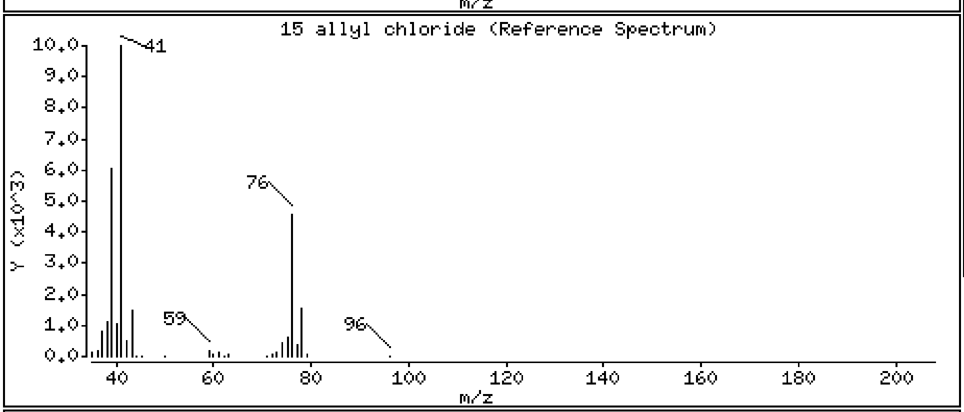
Purge Volume: 5.0 Operator: tkg

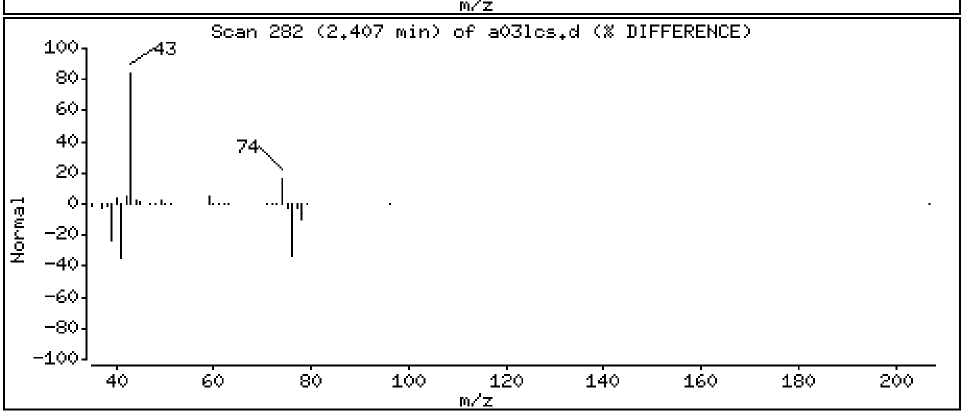
Column phase: DB-624 Column diameter: 0.18

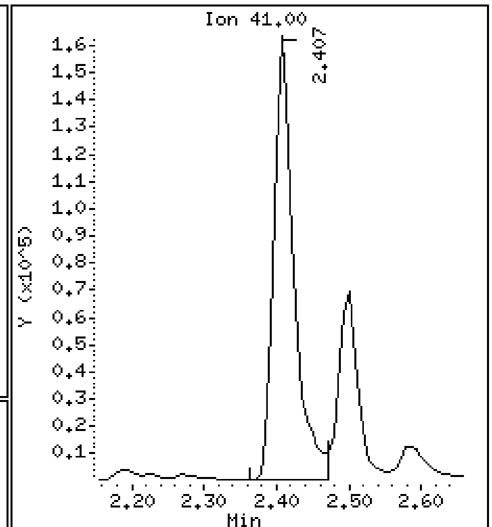
15 allyl chloride Concentration: 41.3 ppb Review Code:

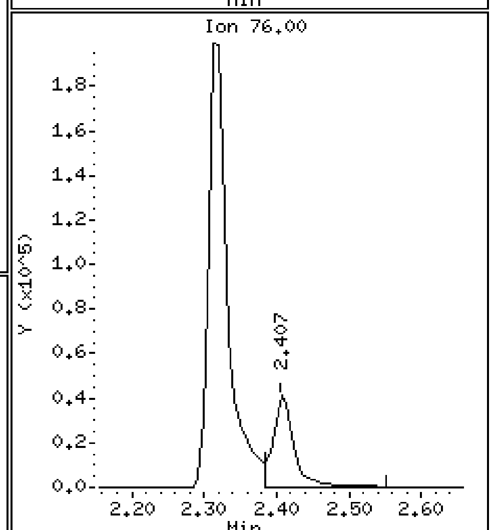












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

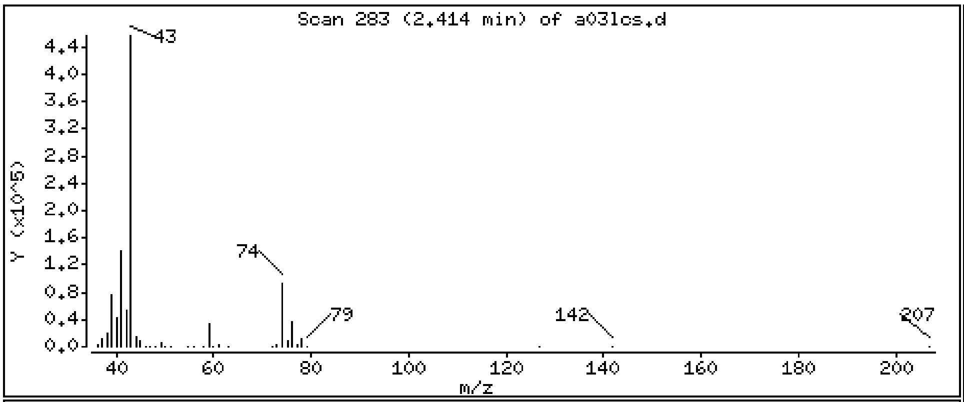
Column phase: DB-624

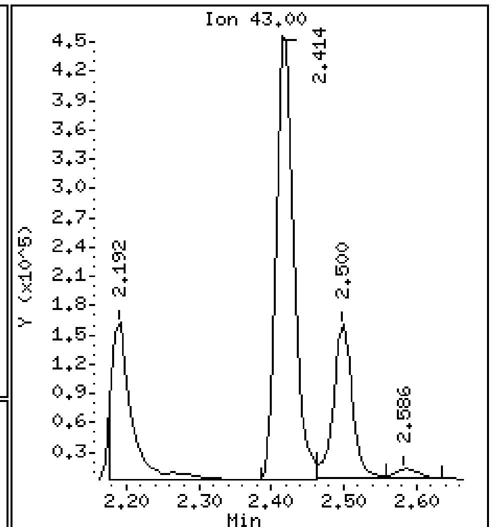
Column diameter: 0.18

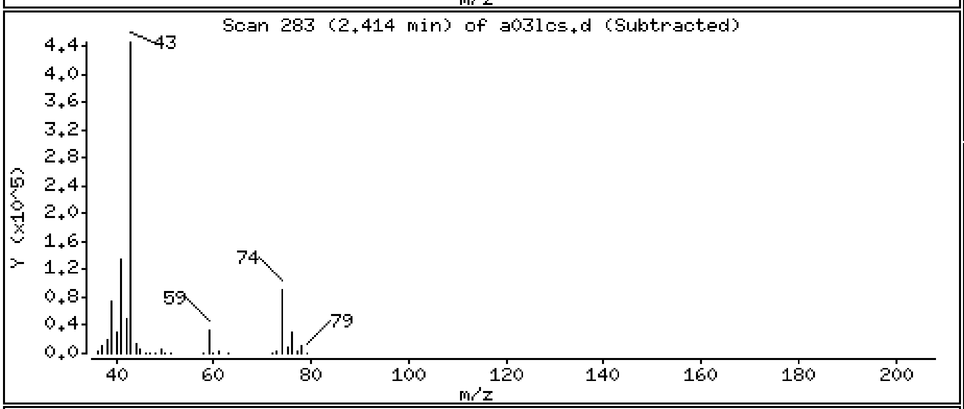
16 Methyl Acetate

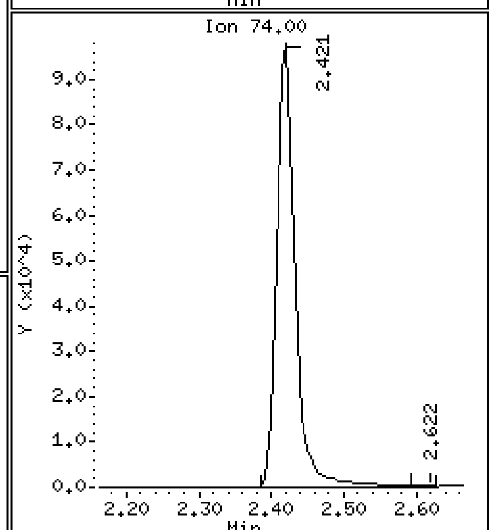
Concentration: 208 ppb

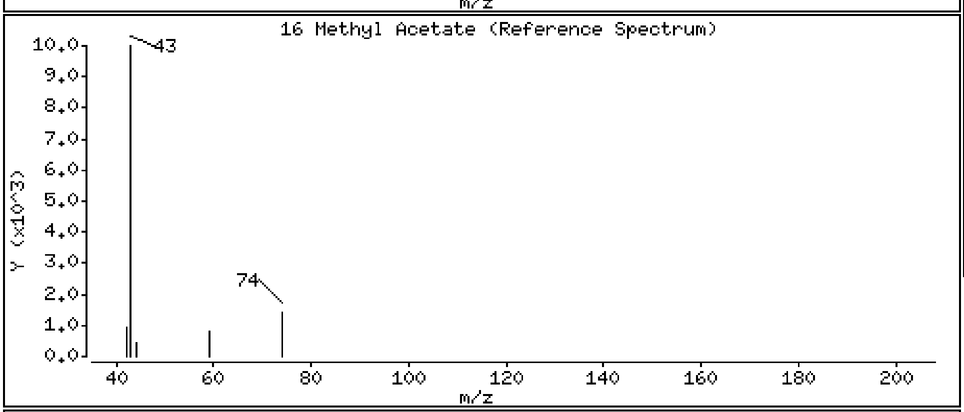
Review Code:

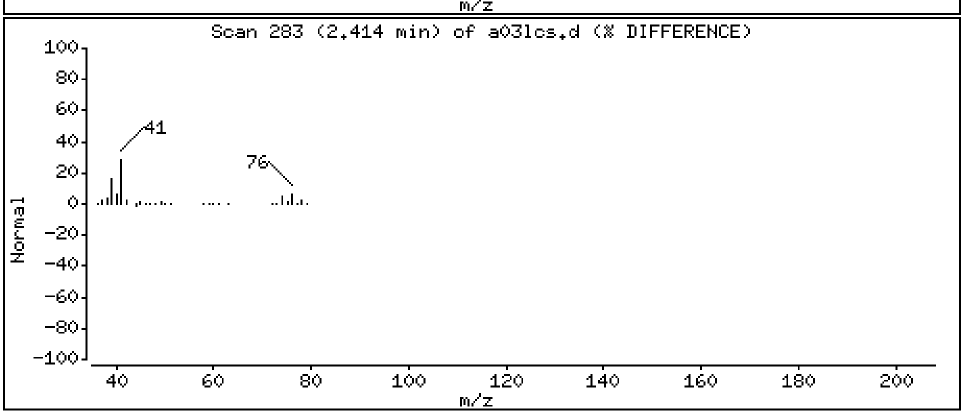












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

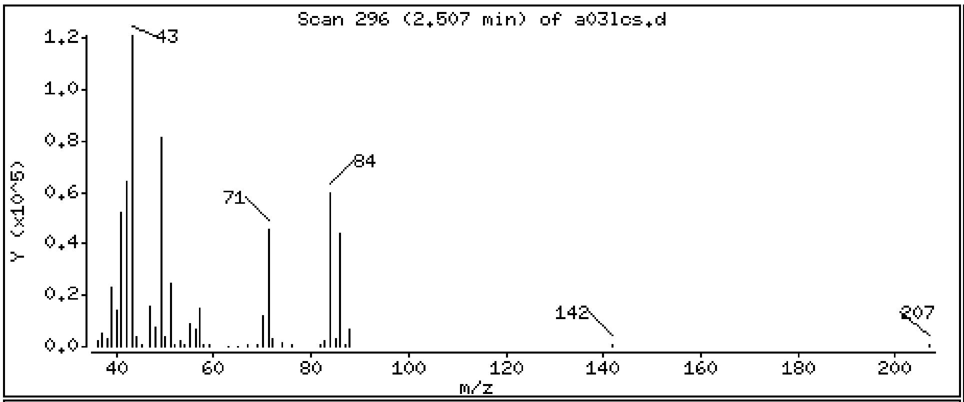
Column phase: DB-624

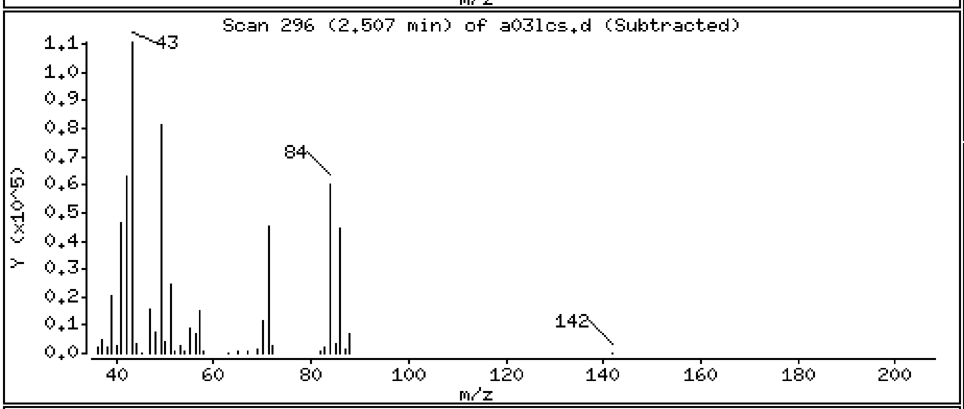
Column diameter: 0.18

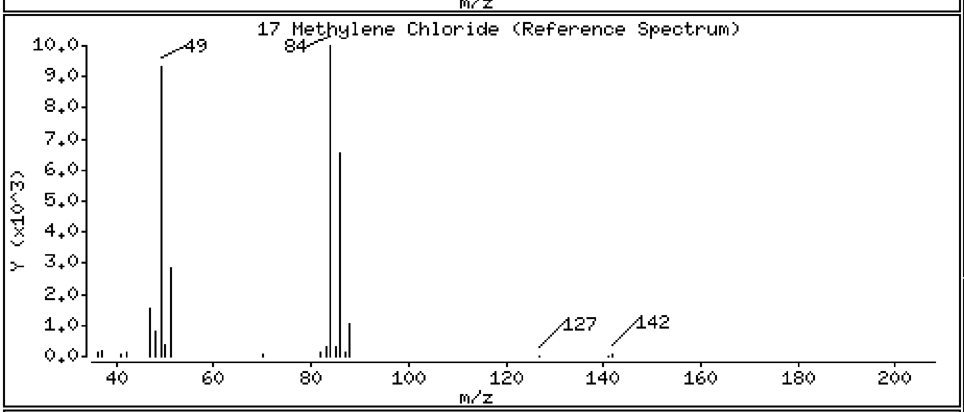
17 Methylene Chloride

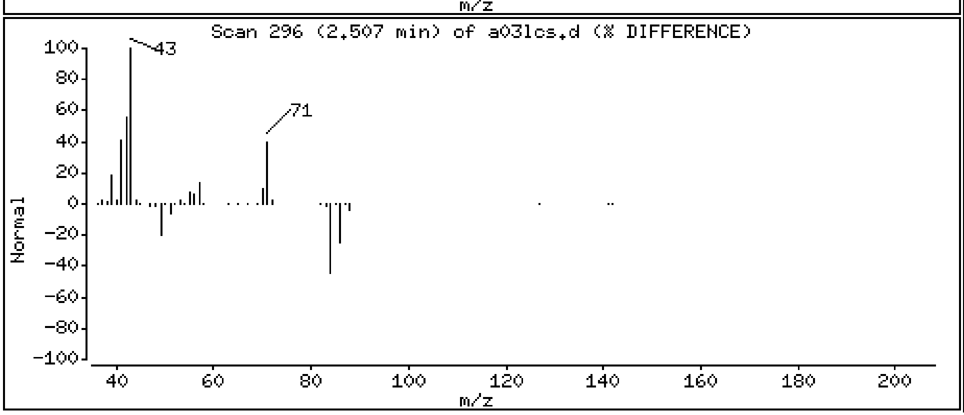
Concentration: 45.3 ppb

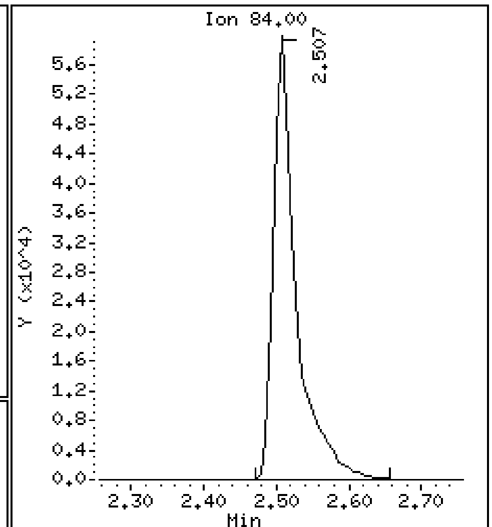
Review Code:

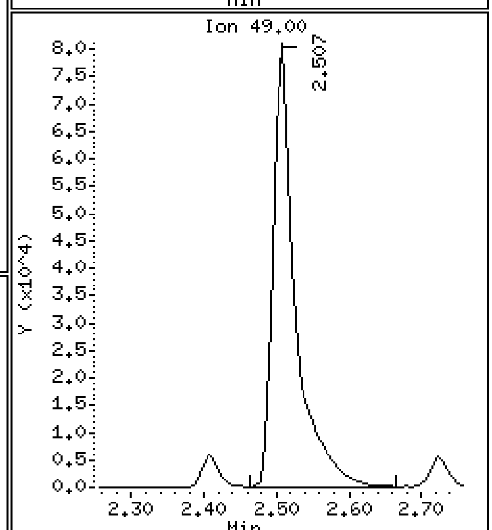


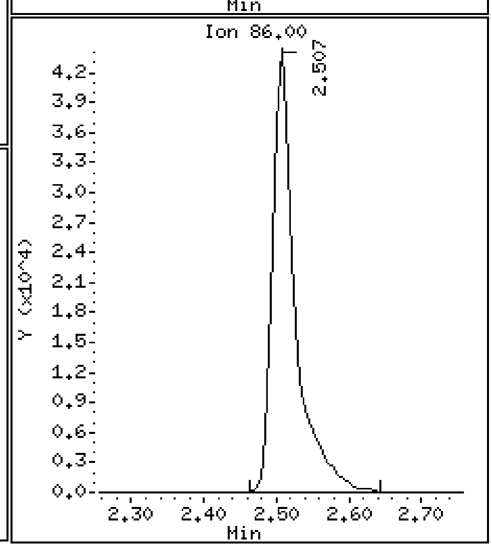












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

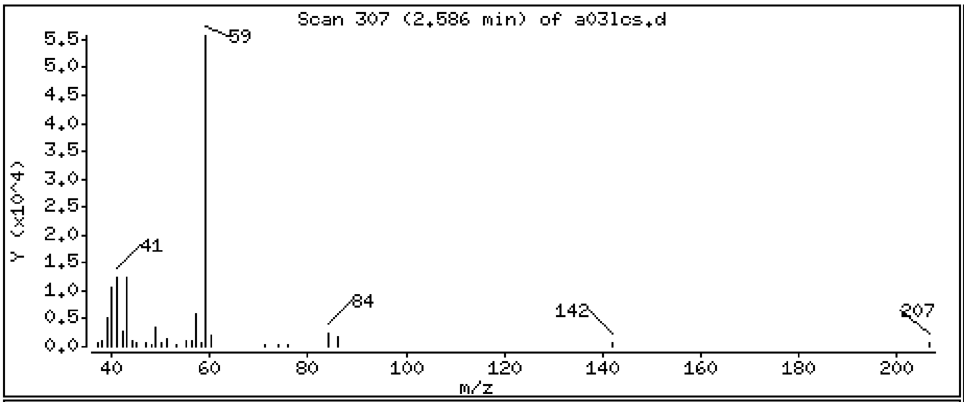
Column phase: DB-624

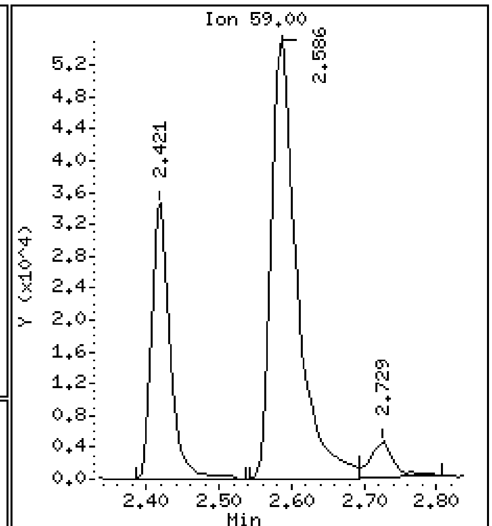
Column diameter: 0.18

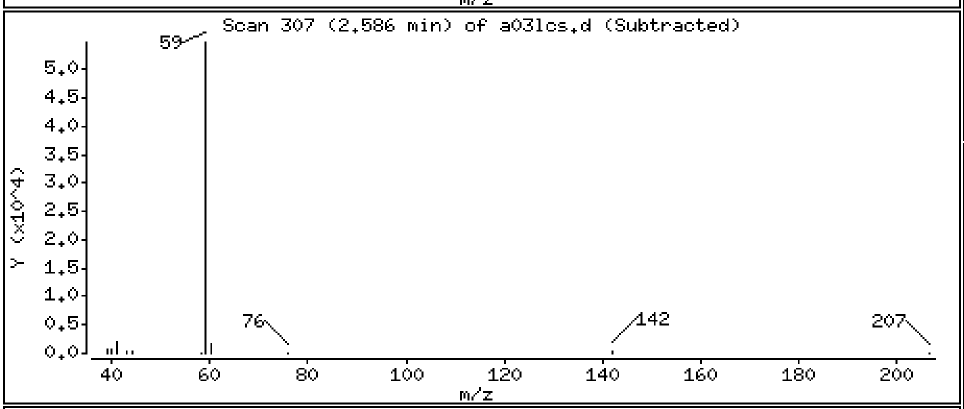
18 tert-Butyl Alcohol

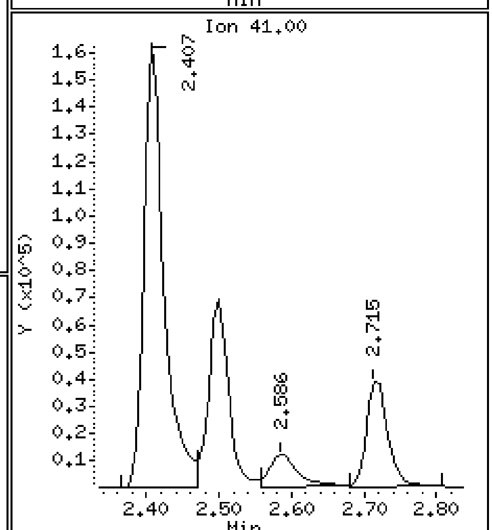
Concentration: 239 ppb

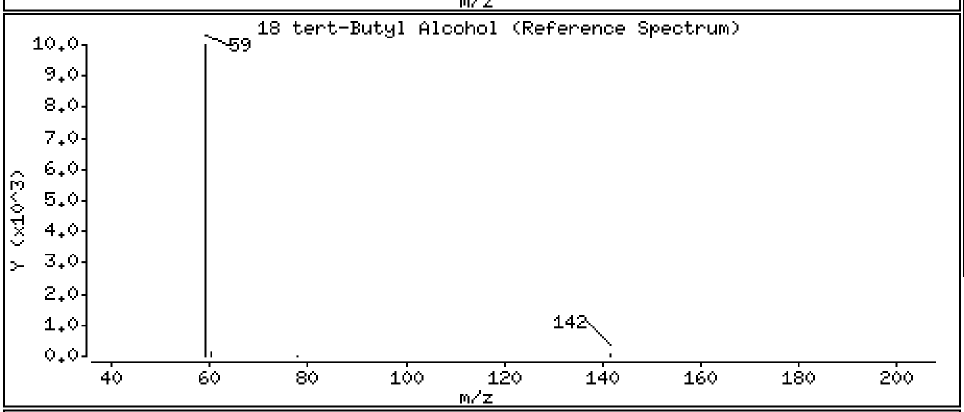
Review Code:

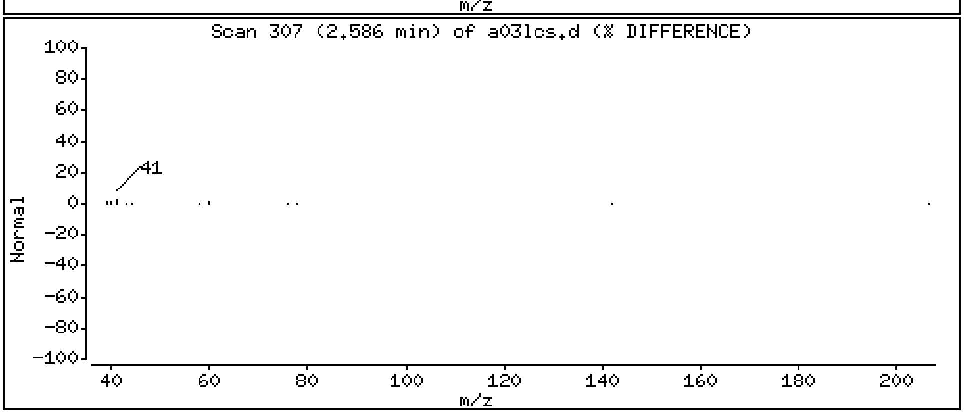












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Date : 23-JAN-2023 11:36

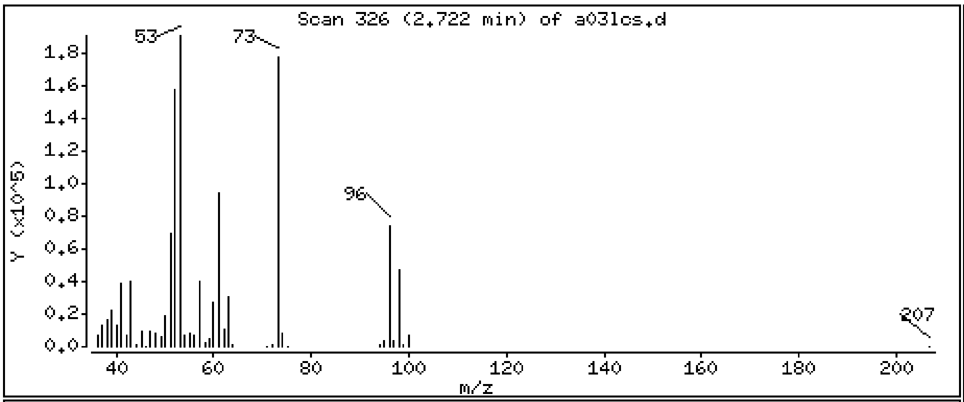
Client ID: Instrument: 50mvda.i

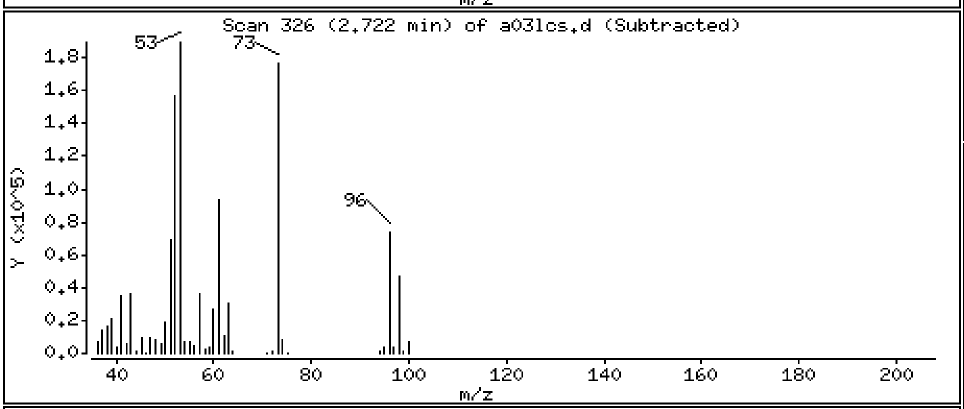
Sample Info: 3287446,336256:5

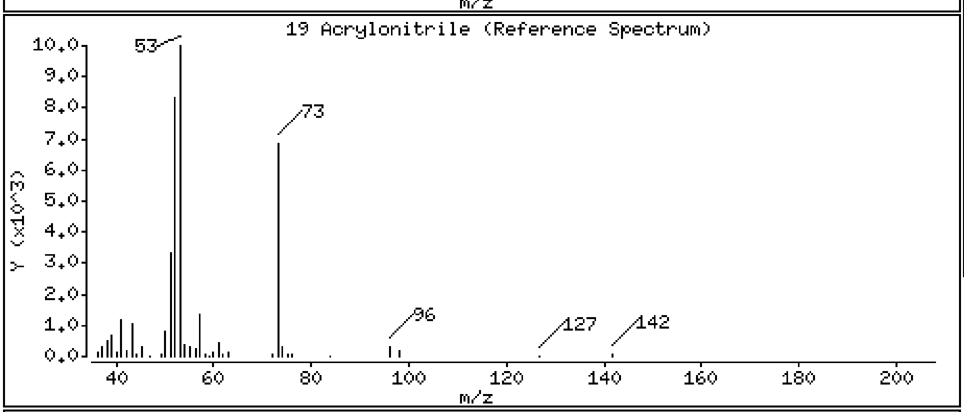
Purge Volume: 5.0 Operator: tkg

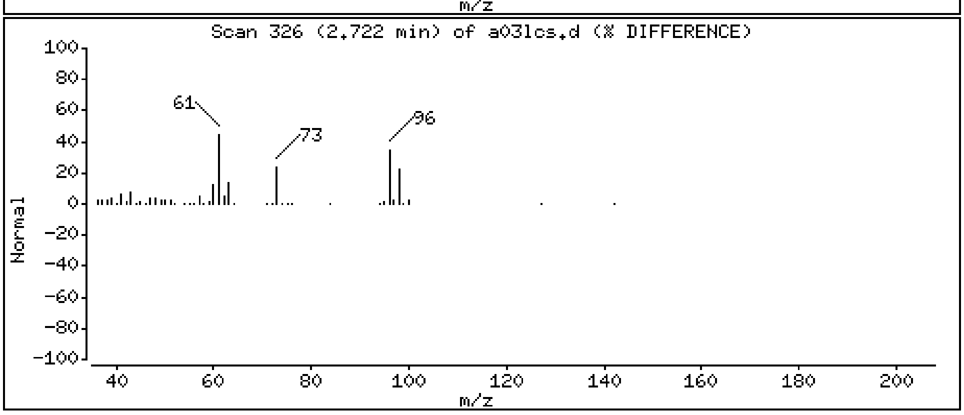
Column phase: DB-624 Column diameter: 0.18

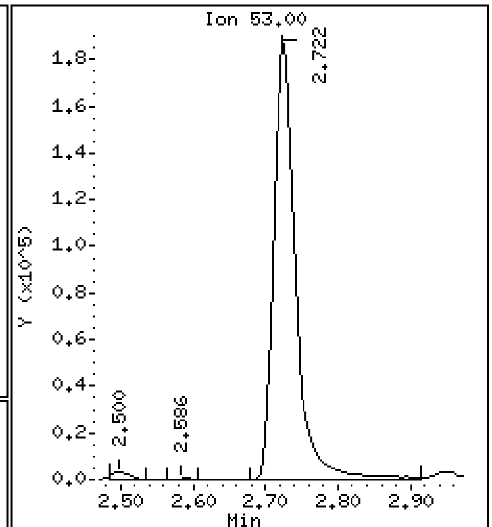
19 Acrylonitrile Concentration: 222 ppb Review Code:

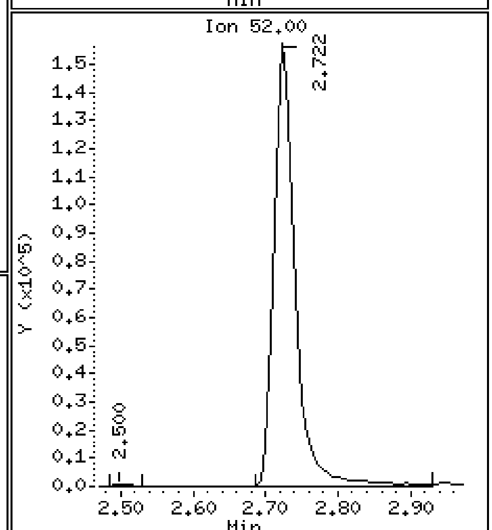












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

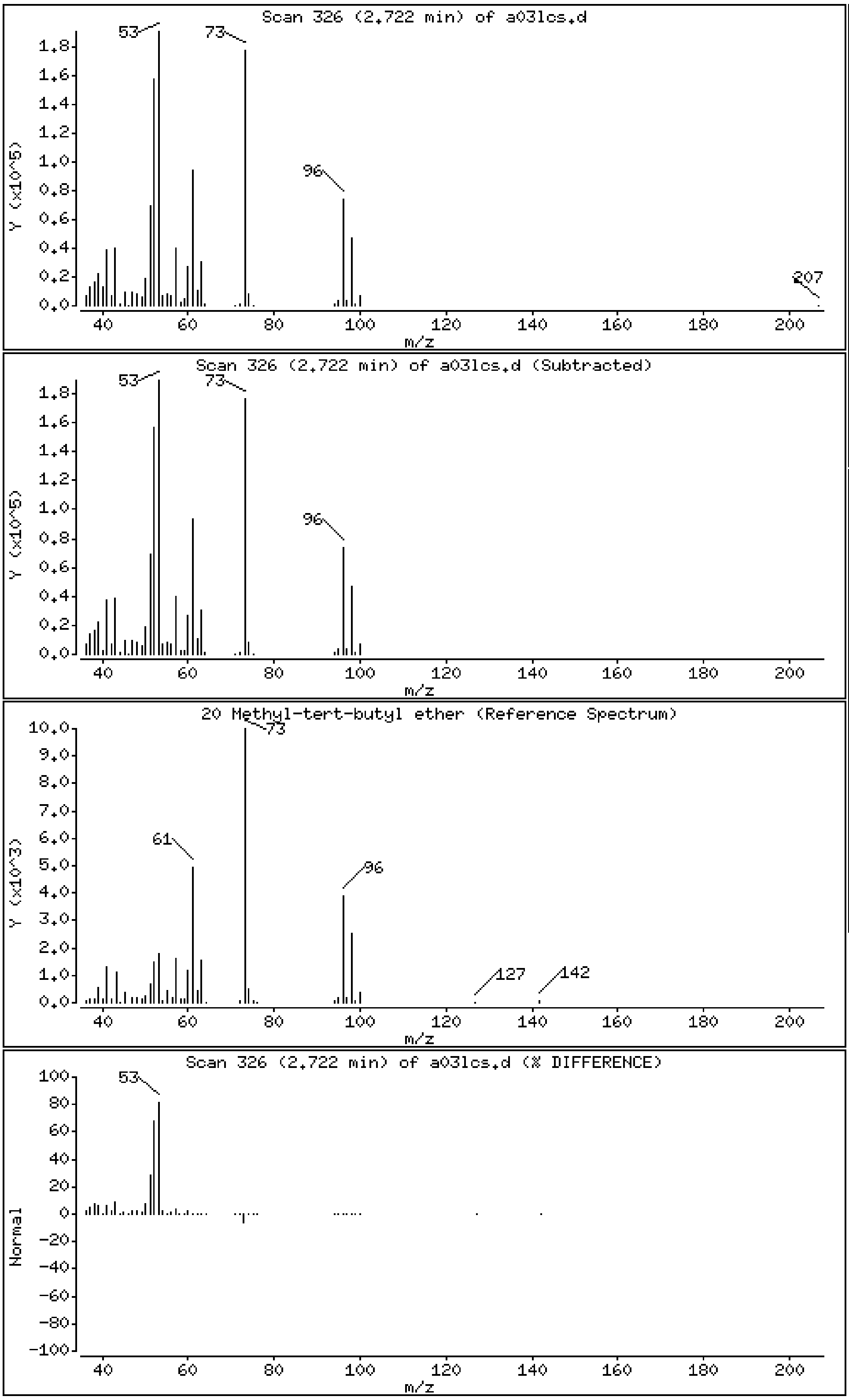
Column phase: DB-624

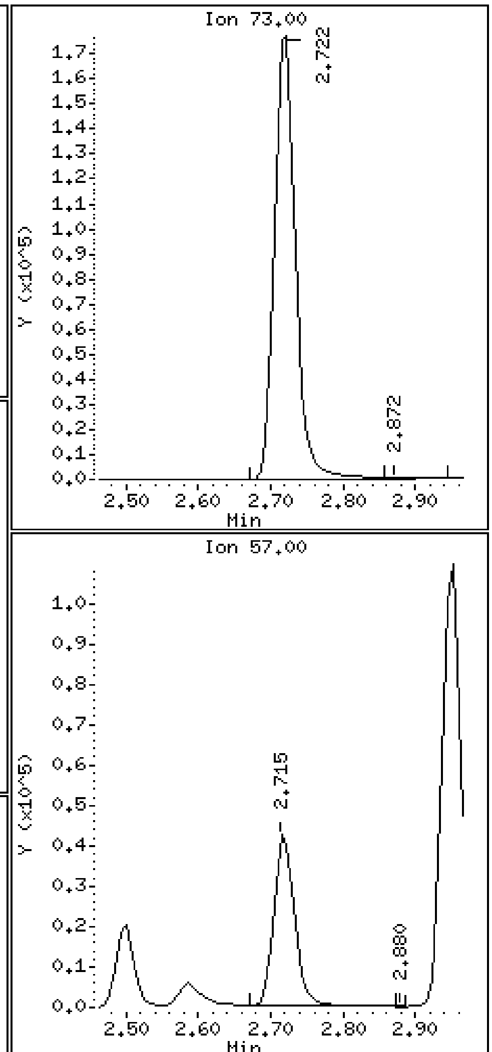
Column diameter: 0.18

20 Methyl-tert-butyl ether

Concentration: 42.6 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

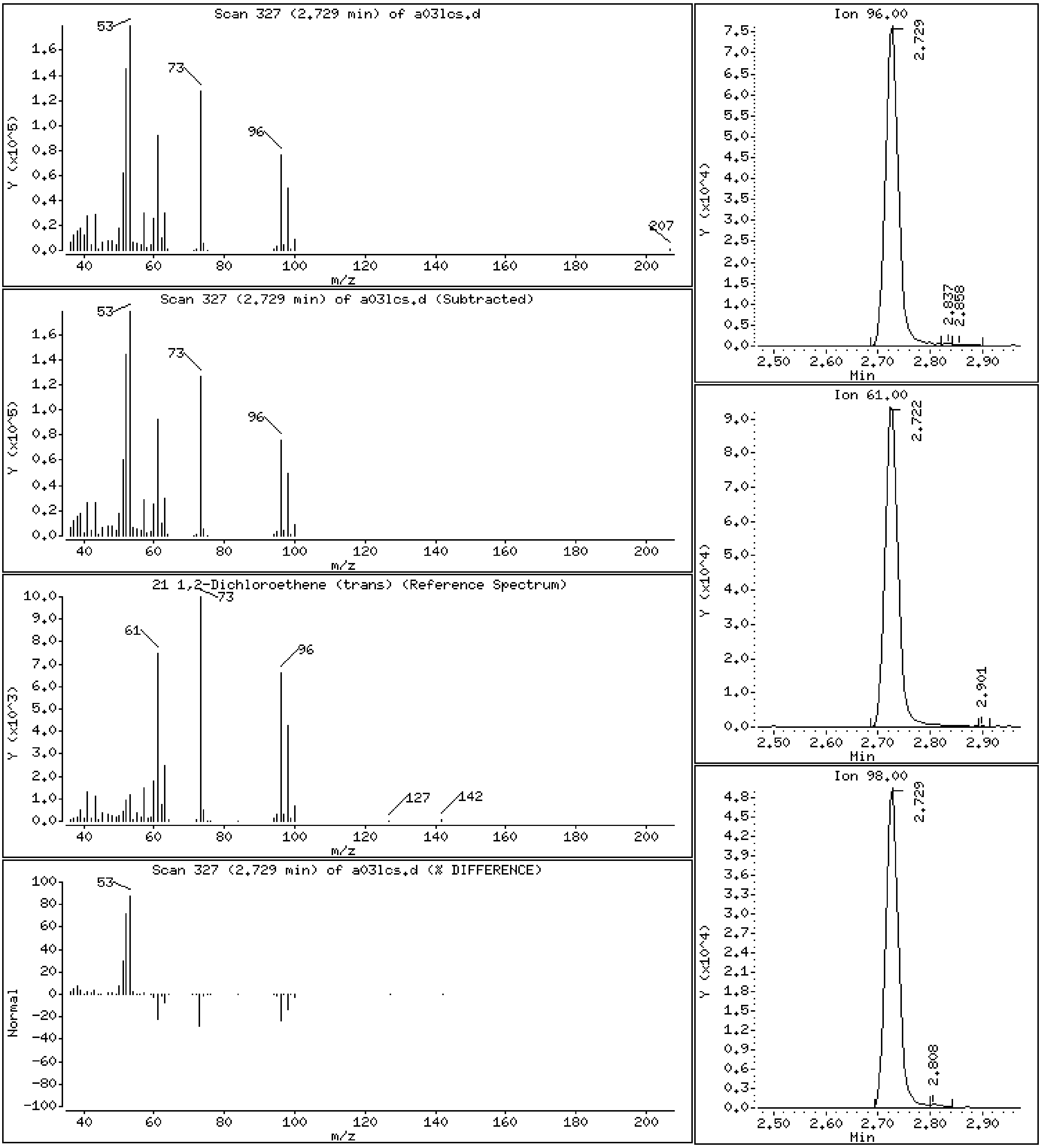
Column phase: DB-624

Column diameter: 0.18

21 1,2-Dichloroethene (trans)

Concentration: 41.1 ppb

Review Code:



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Date : 23-JAN-2023 11:36

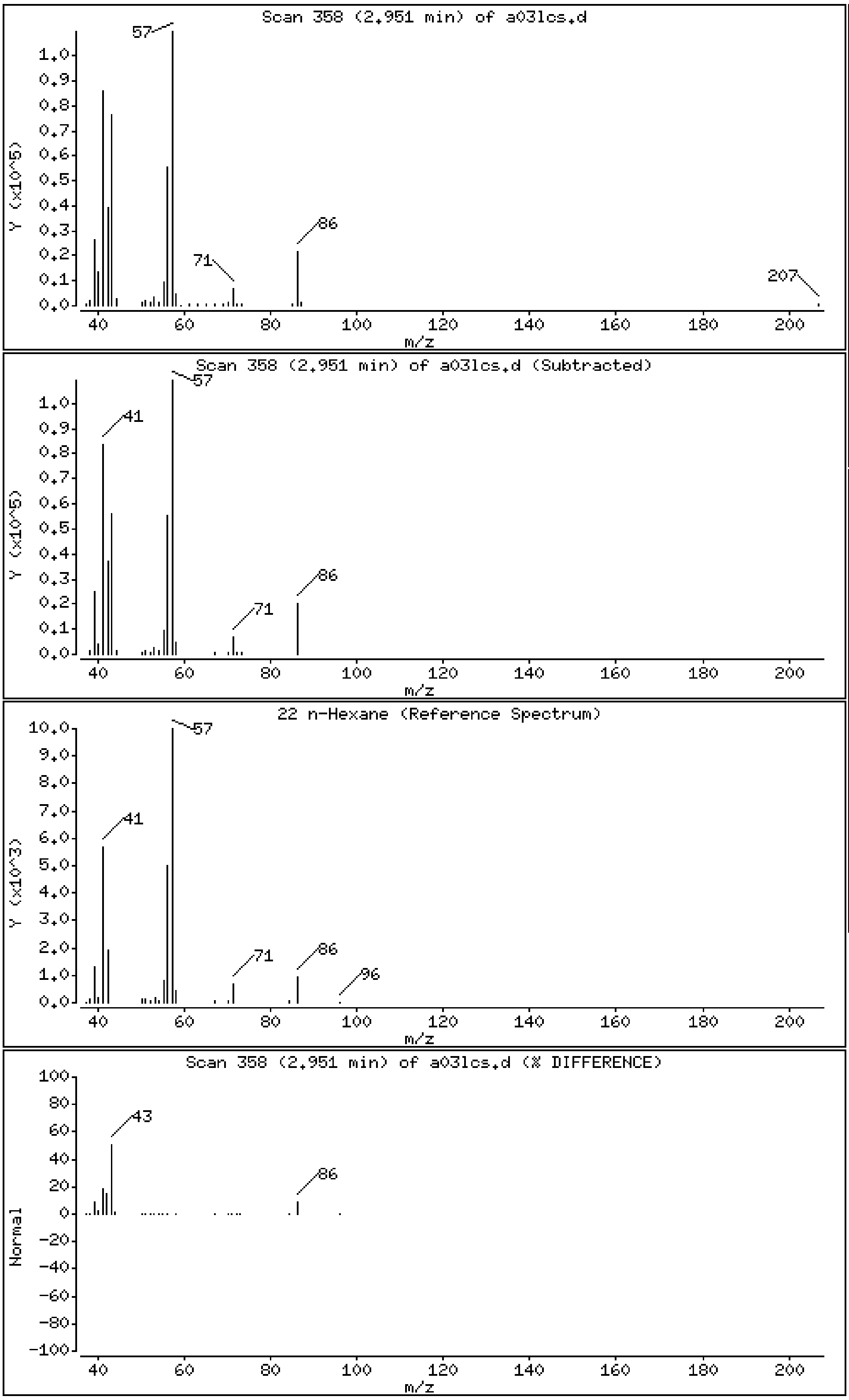
Client ID: Instrument: 50mvda.i

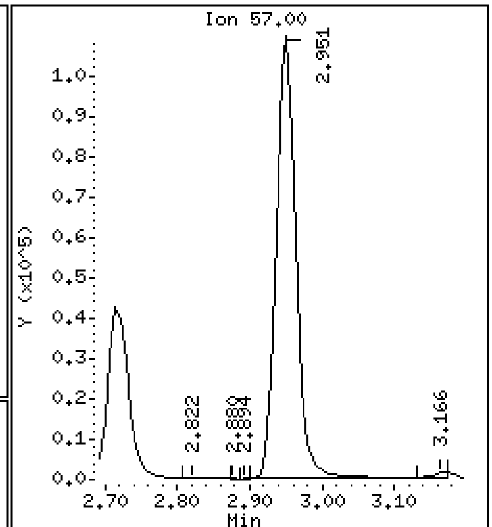
Sample Info: 3287446,336256:5

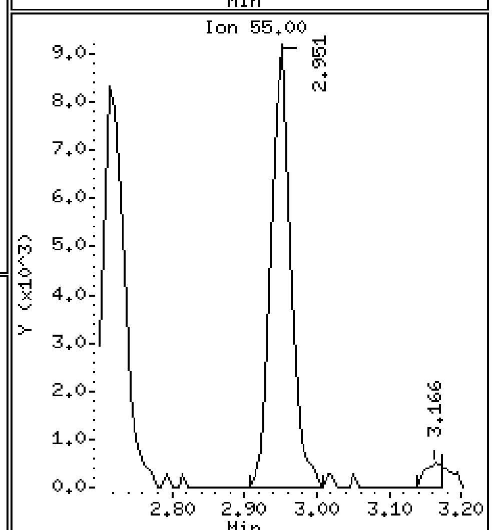
Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

22 n-Hexane Concentration: 40.9 ppb Review Code:







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Date : 23-JAN-2023 11:36

Client ID:

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvda.i

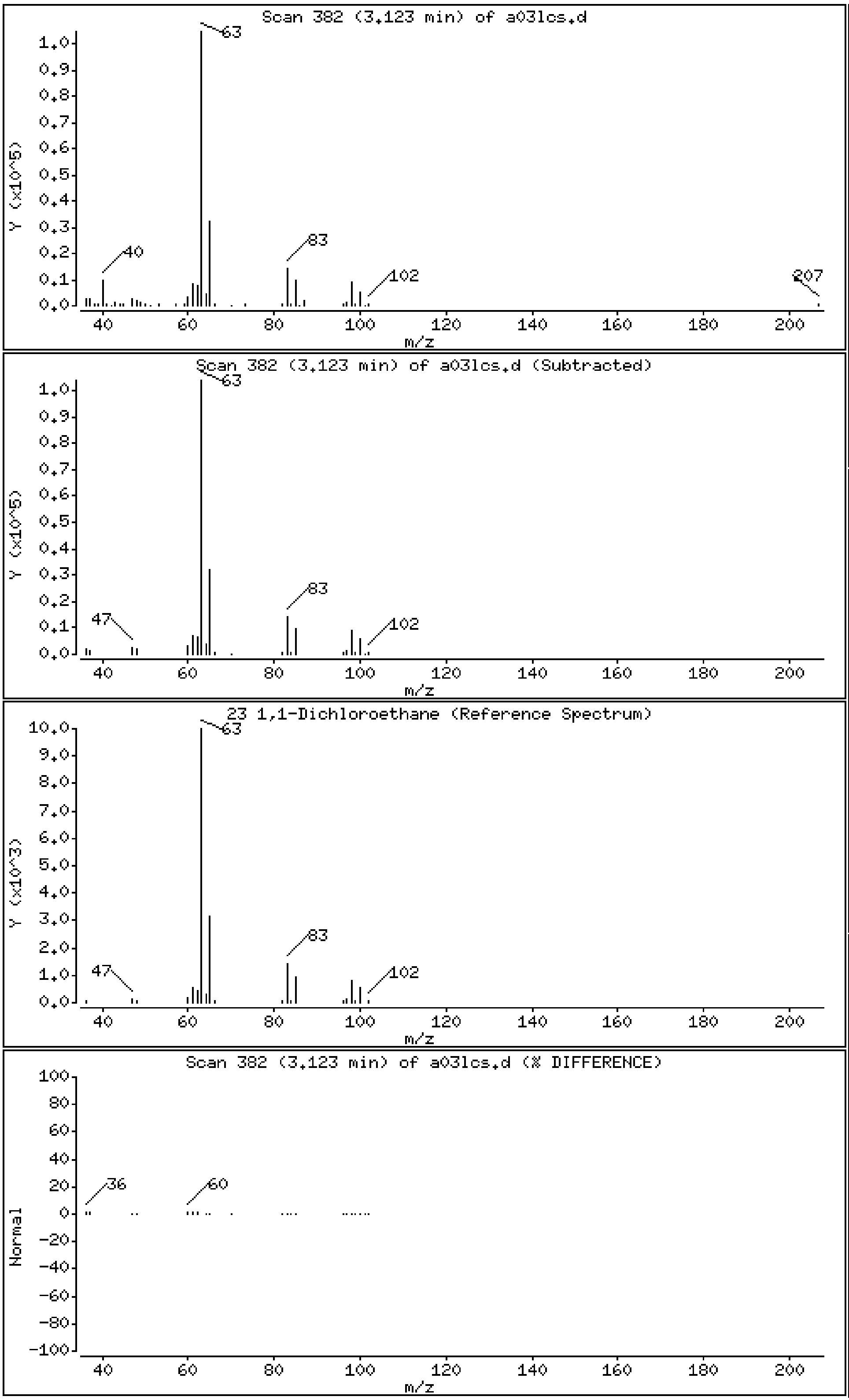
Operator: tkg

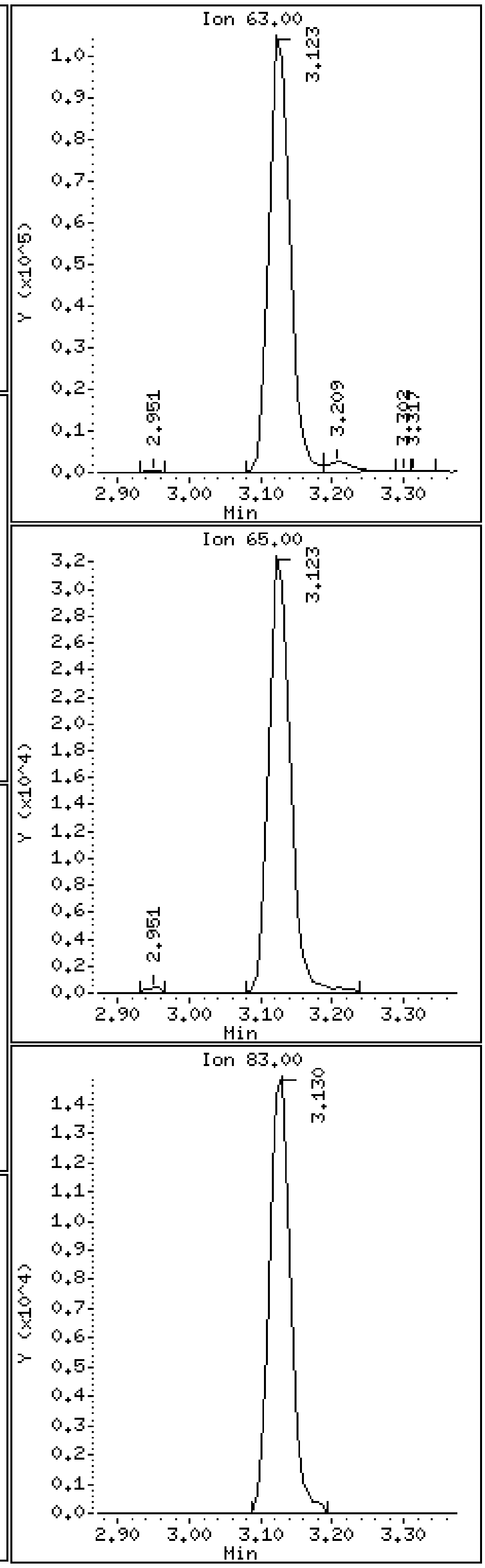
Column diameter: 0.18

23 1,1-Dichloroethane

Concentration: 42.0 ppb

Review Code:





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Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

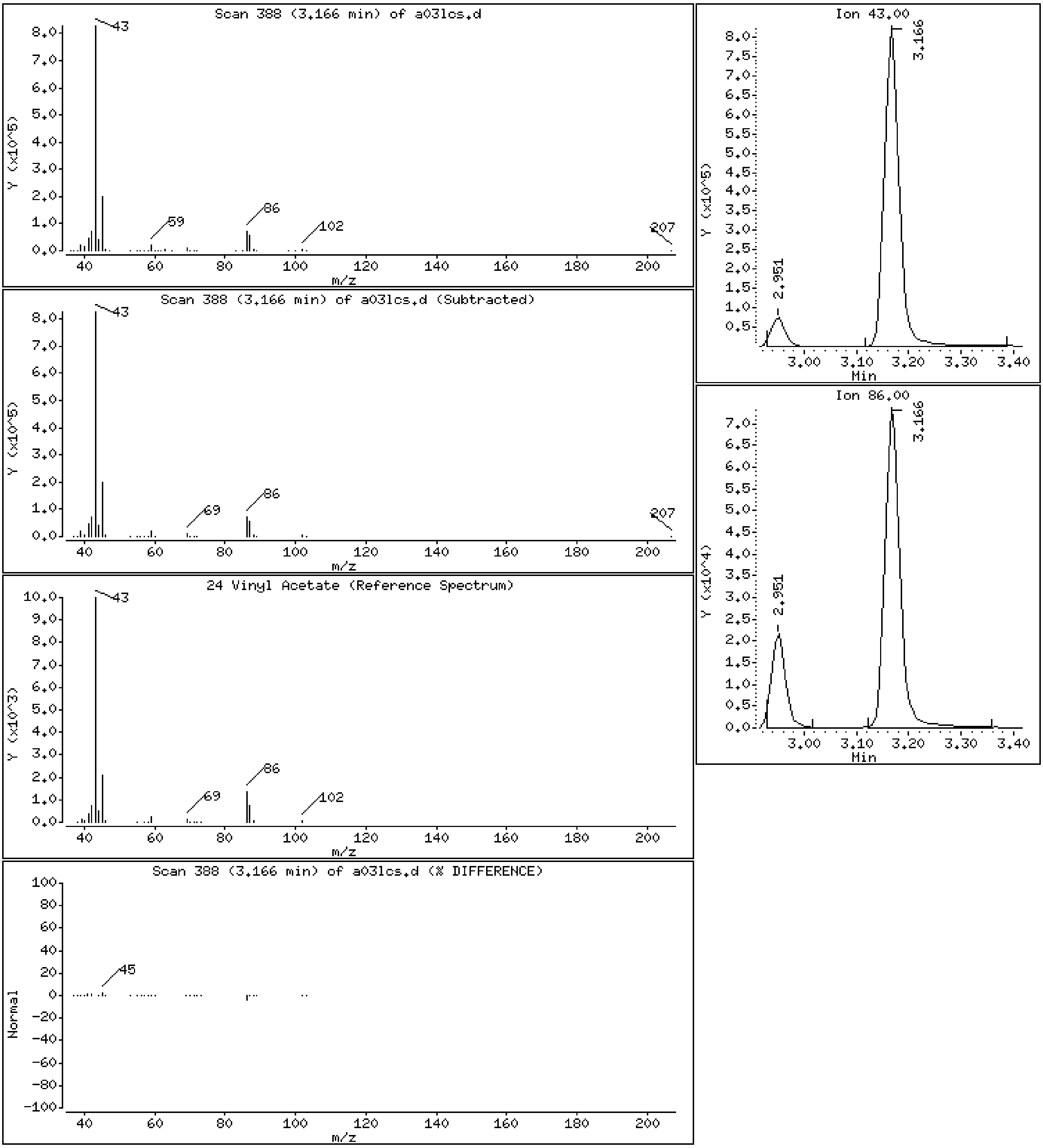
Column phase: DB-624

Column diameter: 0.18

24 Vinyl Acetate

Concentration: 182 ppb

Review Code:



Date : 23-JAN-2023 11:36

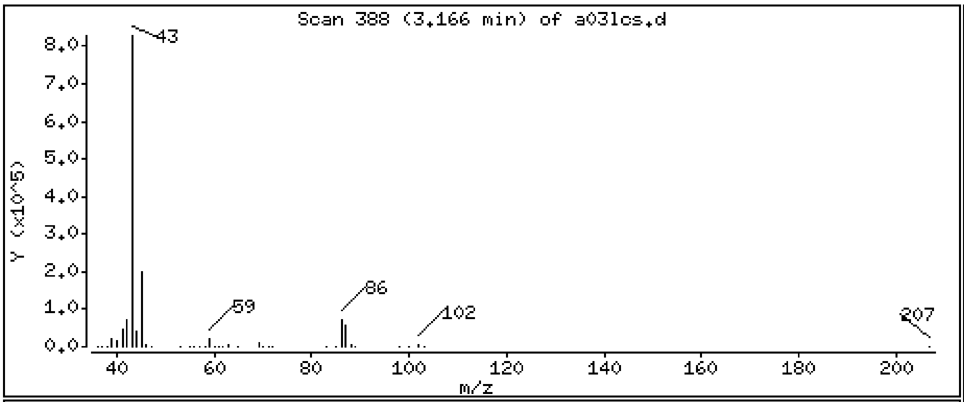
Client ID: Instrument: 50mvda.i

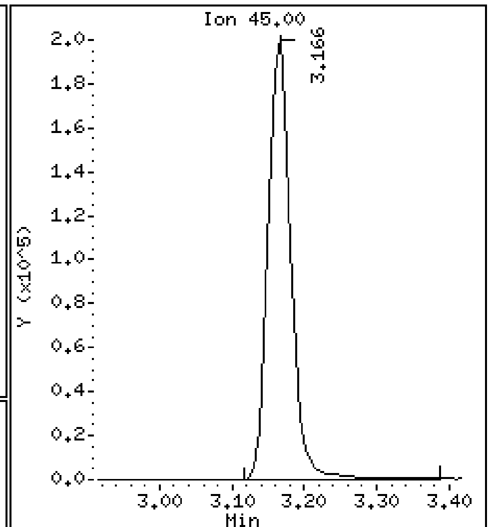
Sample Info: 3287446,336256:5

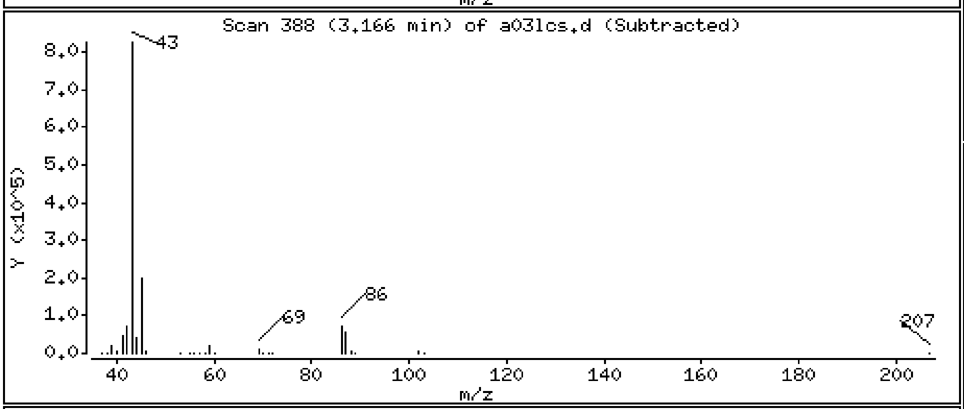
Purge Volume: 5.0 Operator: tkg

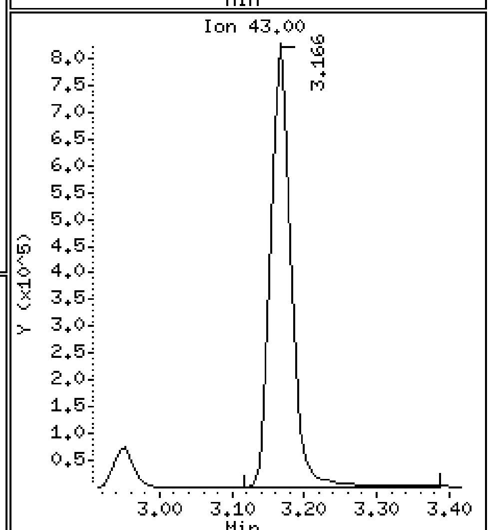
Column phase: DB-624 Column diameter: 0.18

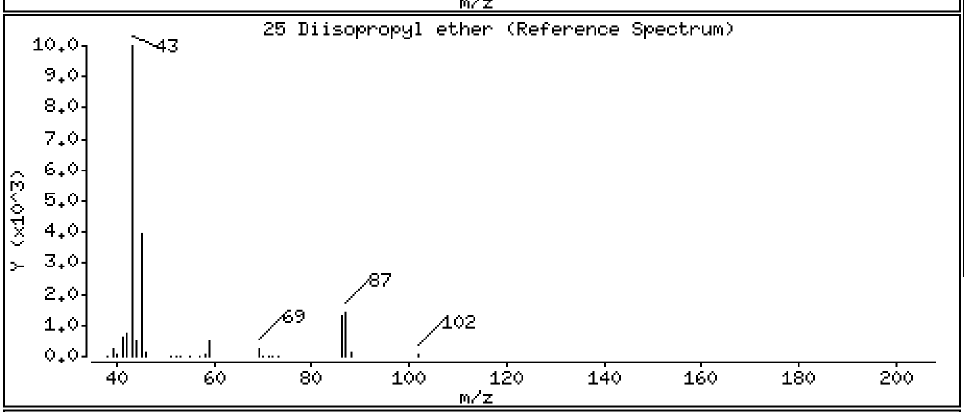
25 Diisopropyl ether Concentration: 41.1 ppb Review Code:

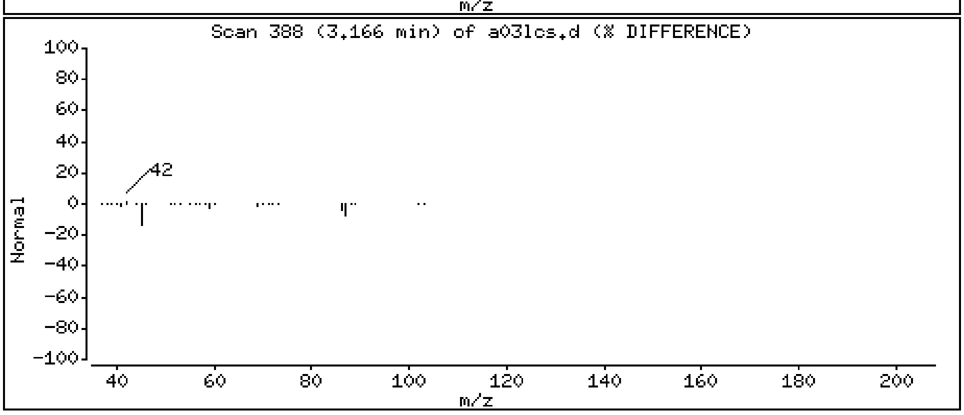












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

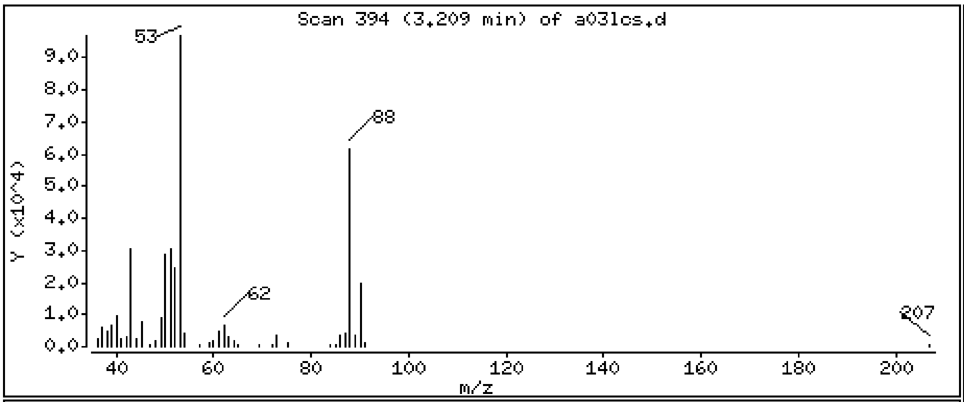
Column phase: DB-624

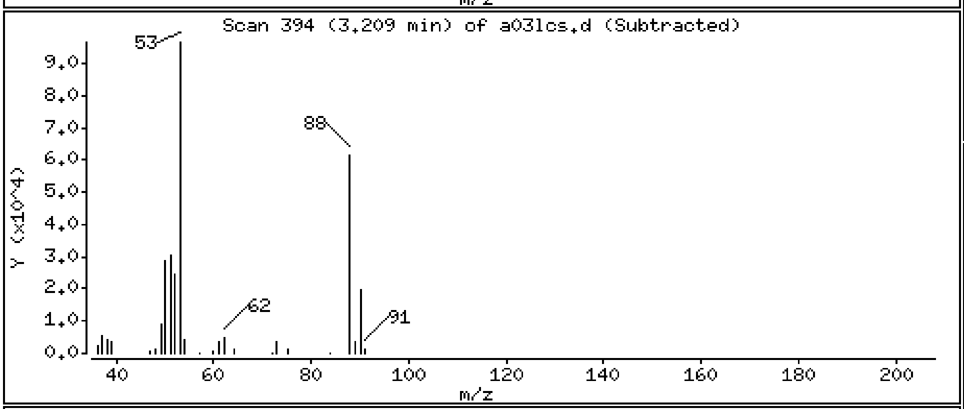
Column diameter: 0.18

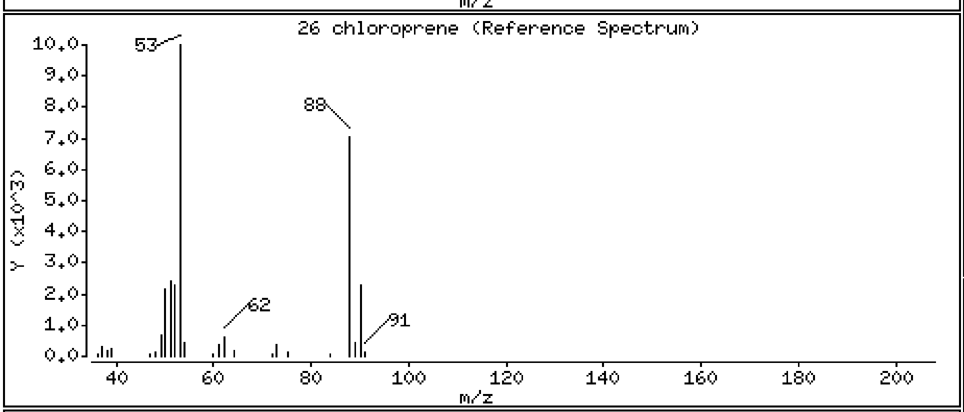
26 chloroprene

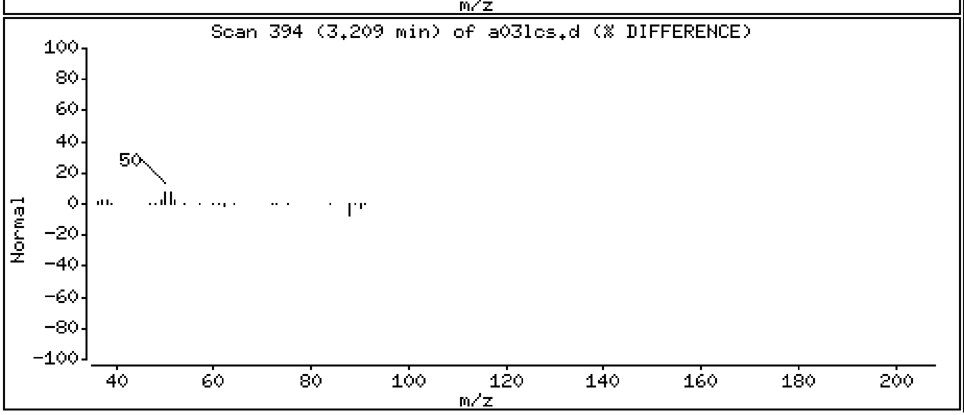
Concentration: 44.2 ppb

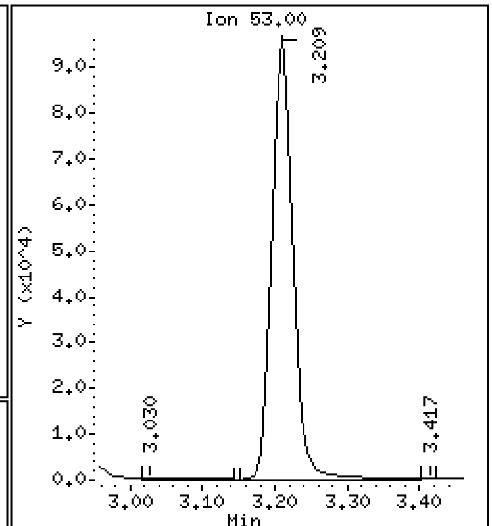
Review Code:

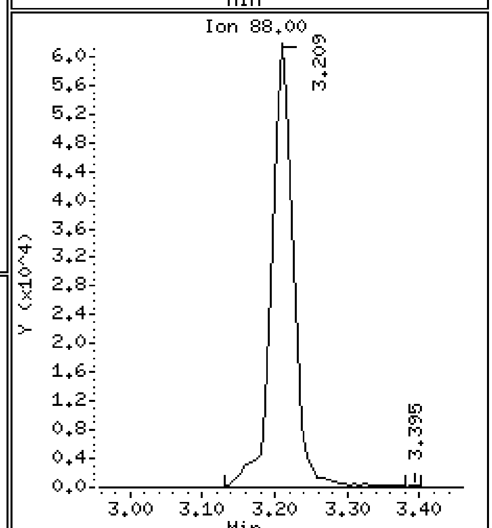


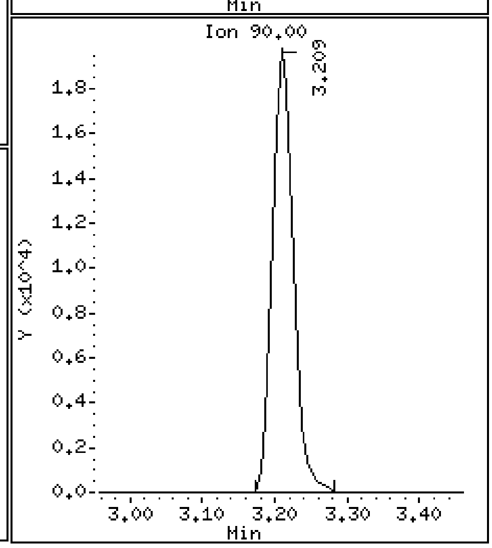












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Date : 23-JAN-2023 11:36

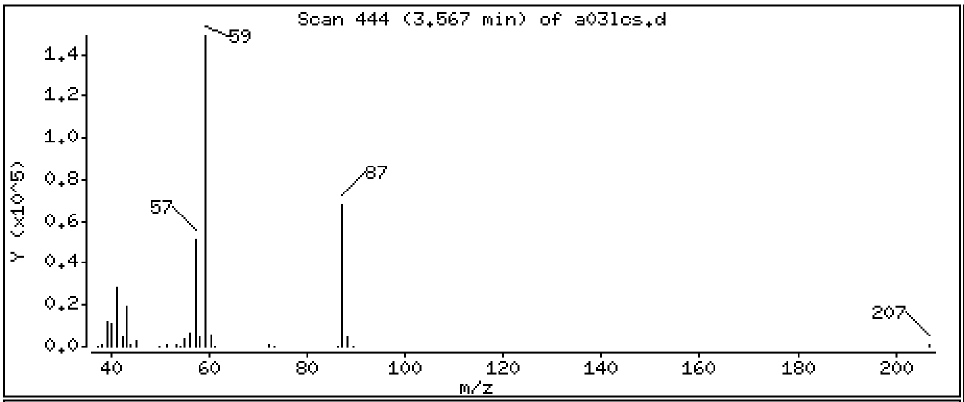
Client ID: Instrument: 50mvda.i

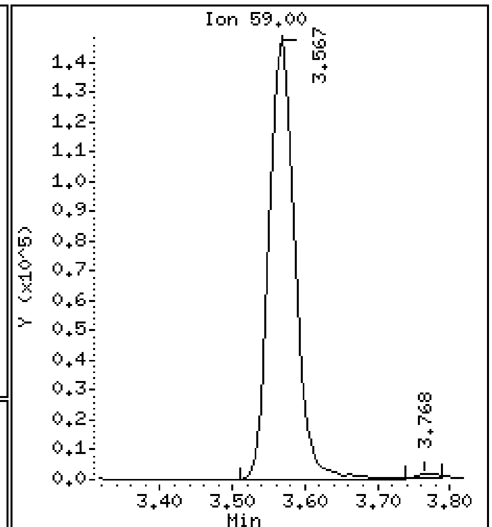
Sample Info: 3287446,336256:5

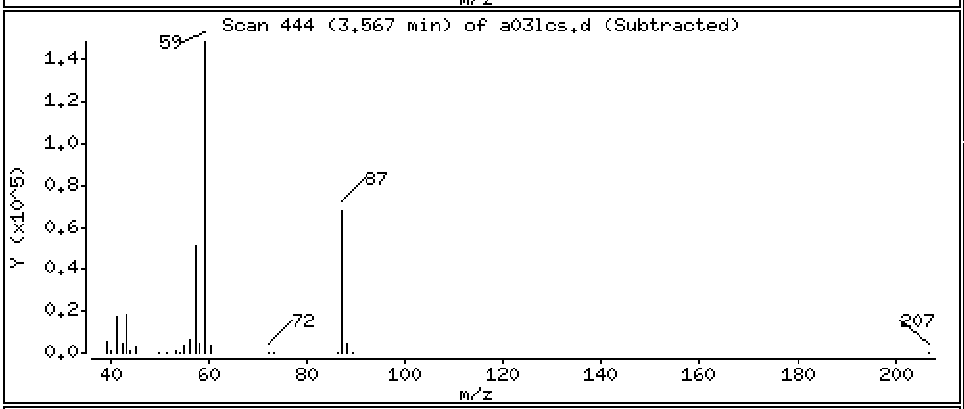
Purge Volume: 5.0 Operator: tkg

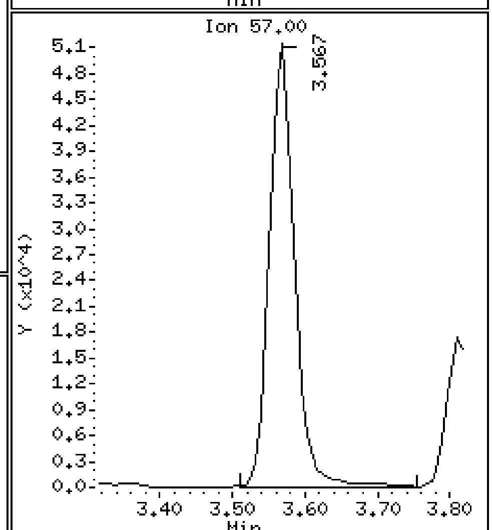
Column phase: DB-624 Column diameter: 0.18

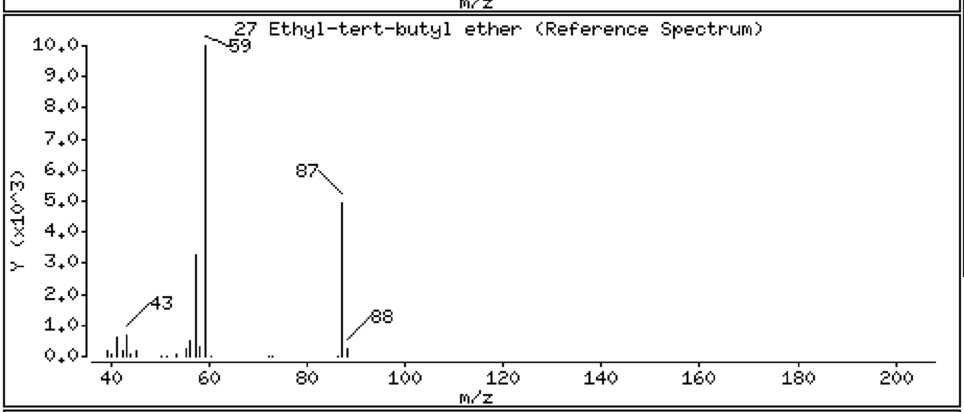
27 Ethyl-tert-butyl ether Concentration: 41.8 ppb Review Code:

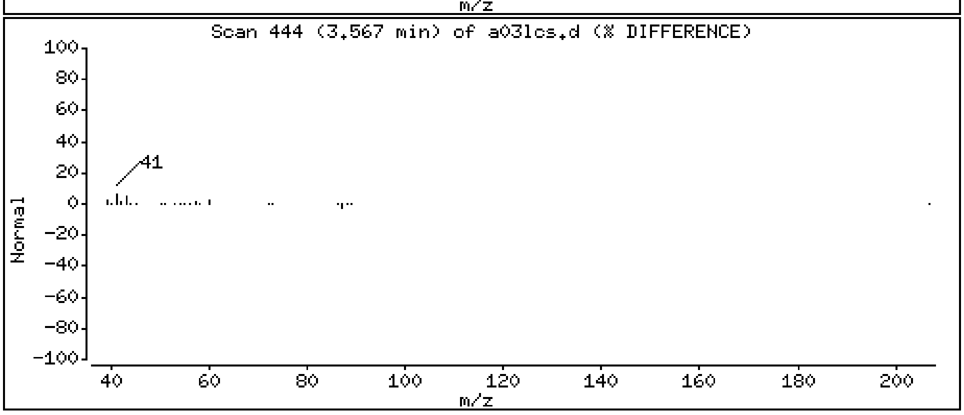












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

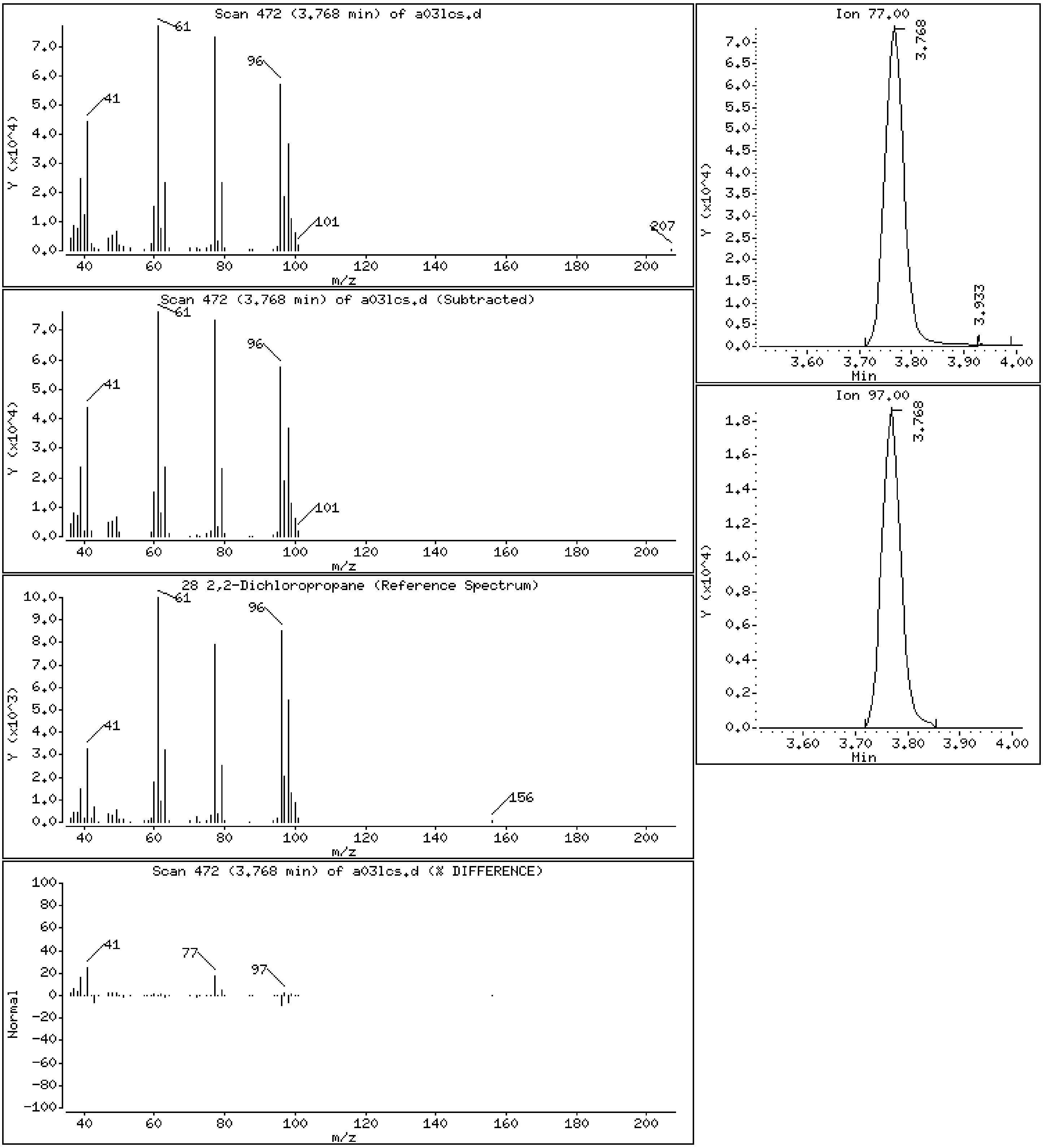
Column phase: DB-624

Column diameter: 0.18

28 2,2-Dichloropropane

Concentration: 46.6 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

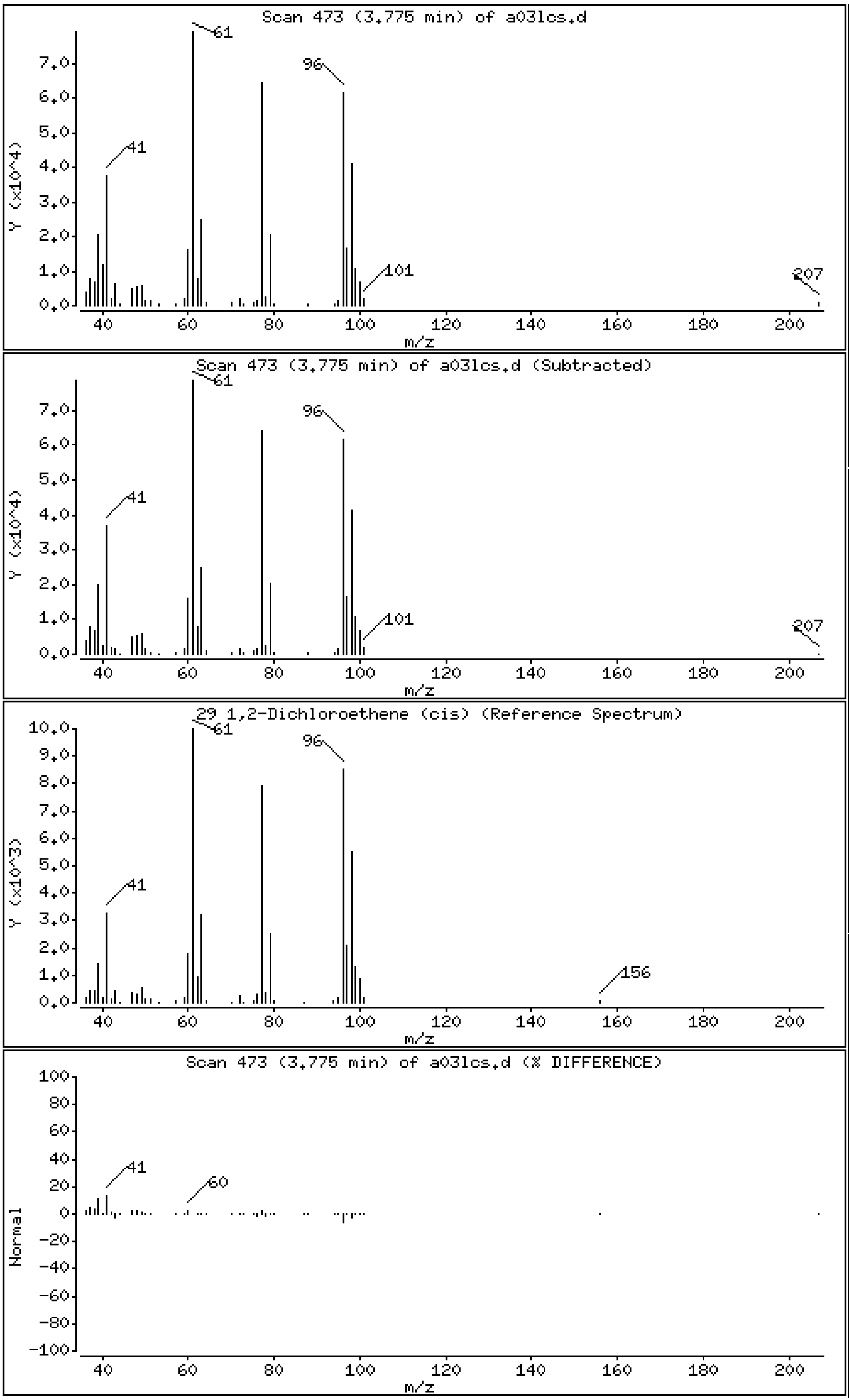
Column phase: DB-624

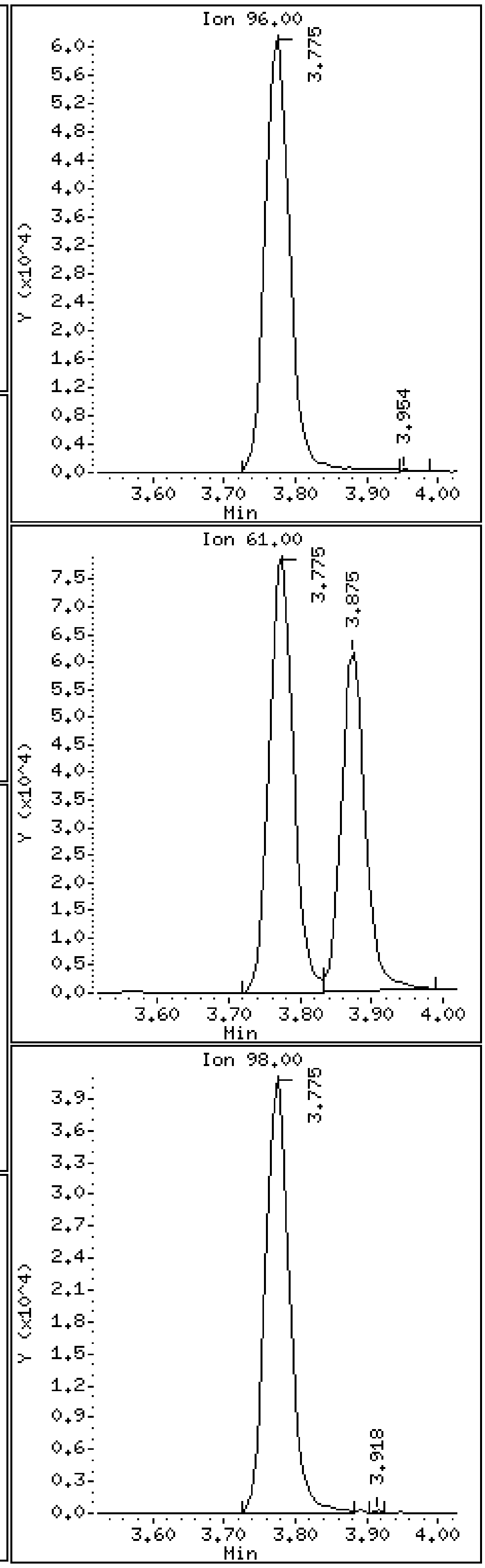
Column diameter: 0.18

29 1,2-Dichloroethene (cis)

Concentration: 40.7 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

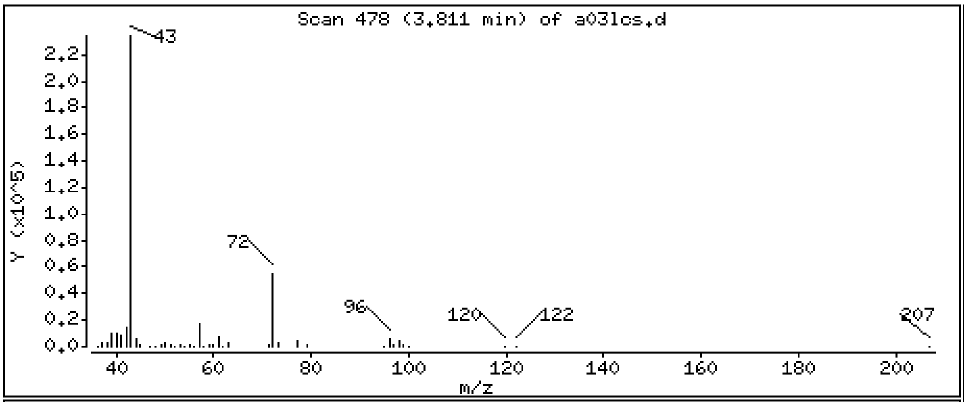
Column phase: DB-624

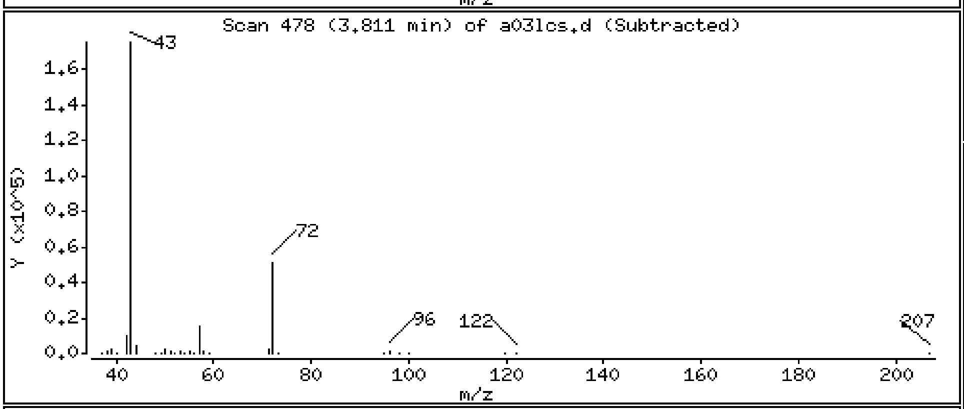
Column diameter: 0.18

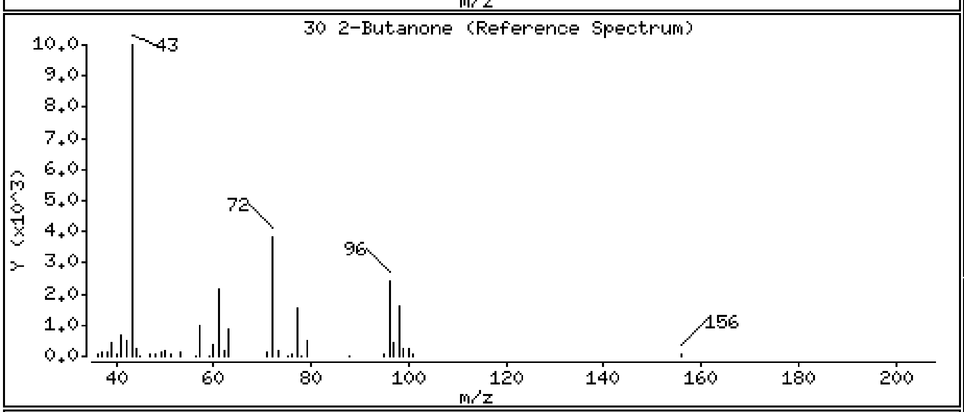
30 2-Butanone

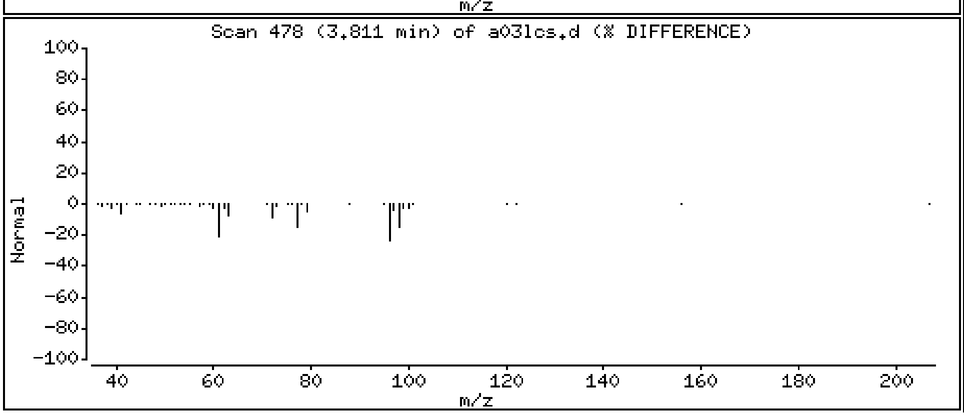
Concentration: 210 ppb

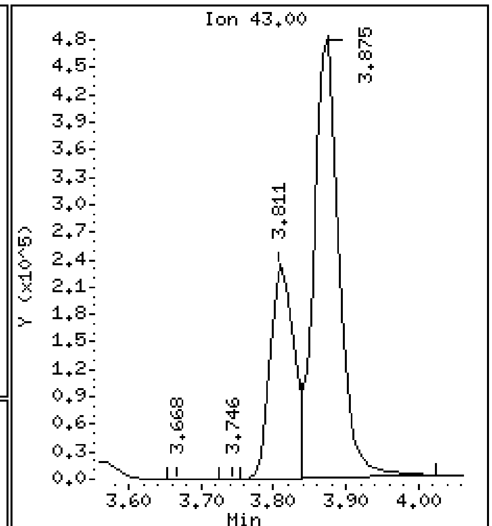
Review Code:

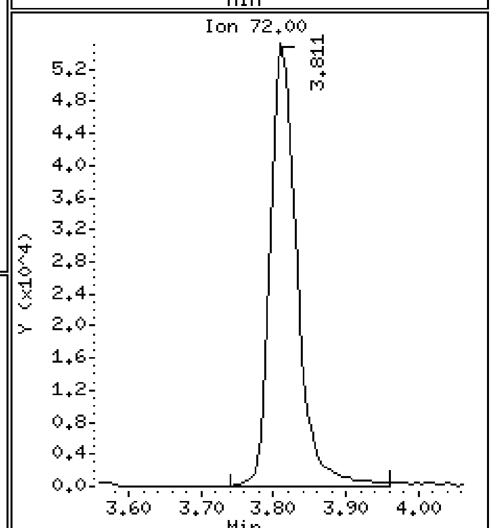


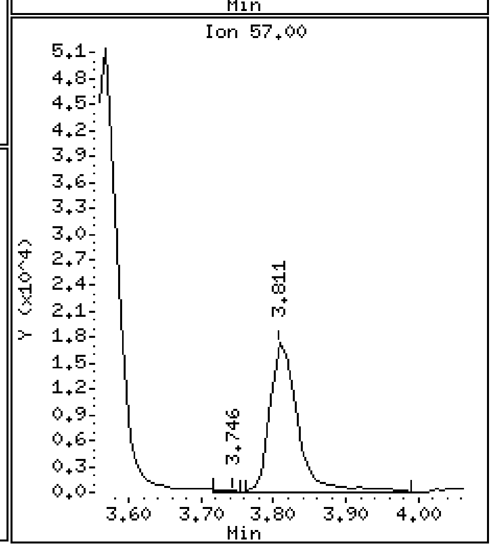












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Date : 23-JAN-2023 11:36

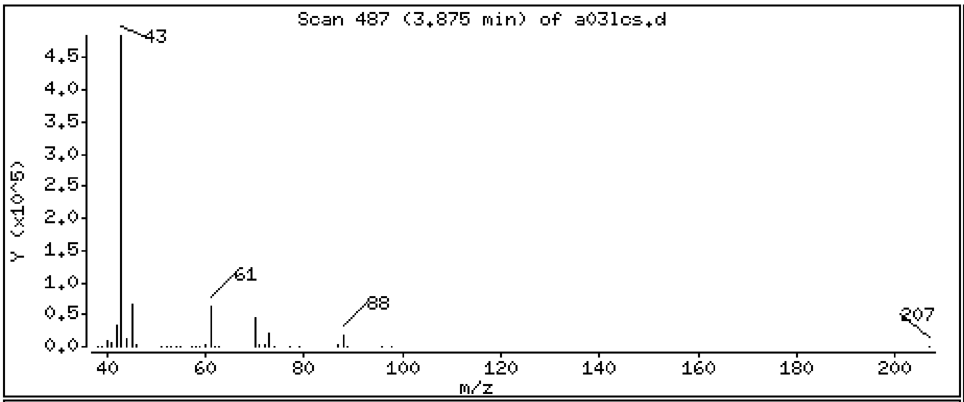
Client ID: Instrument: 50mvda.i

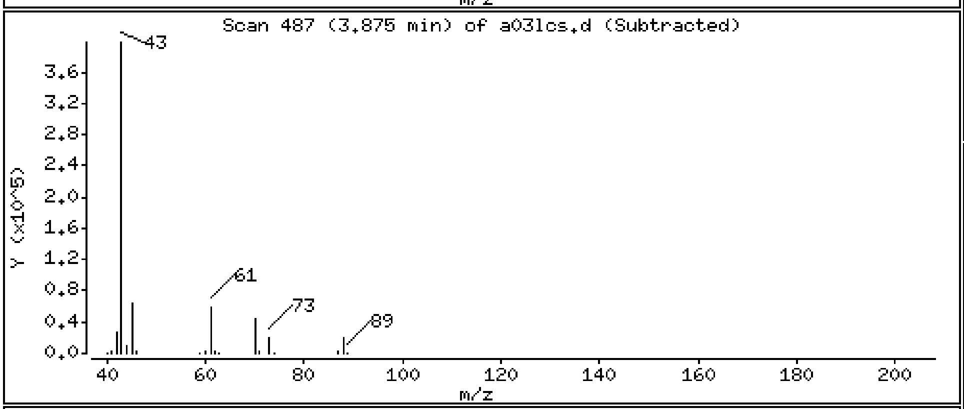
Sample Info: 3287446,336256:5

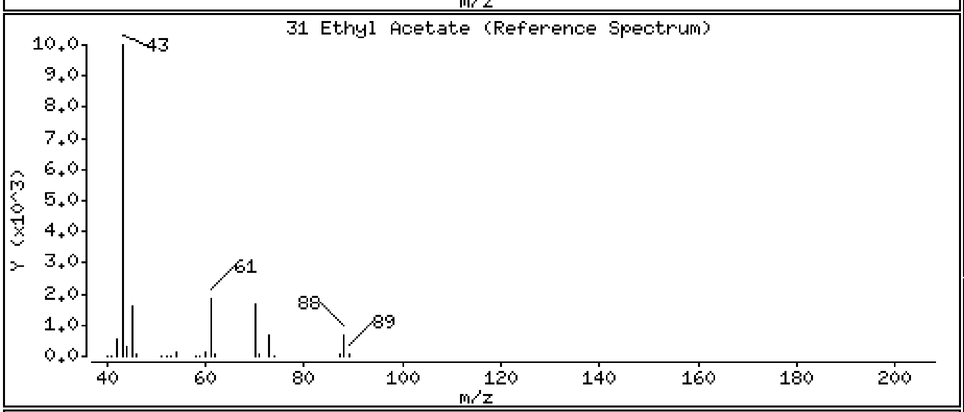
Purge Volume: 5.0 Operator: tkg

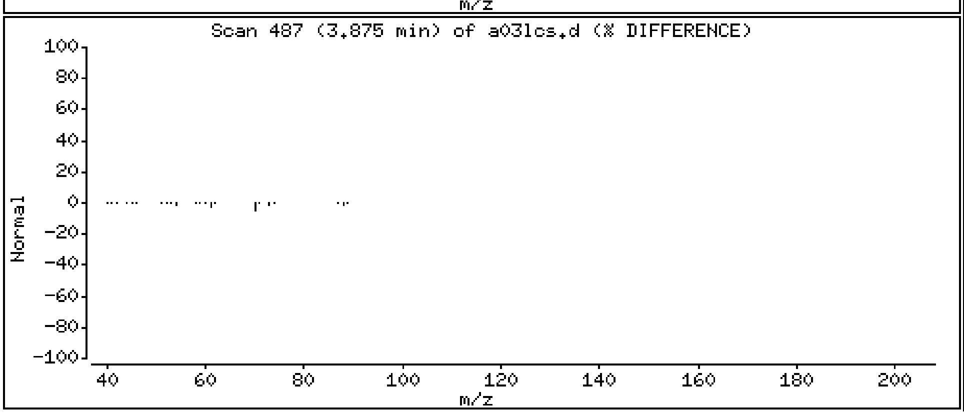
Column phase: DB-624 Column diameter: 0.18

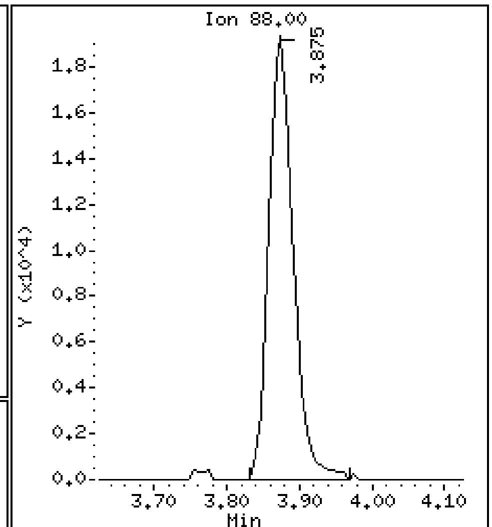
31 Ethyl Acetate Concentration: 247 ppb Review Code:

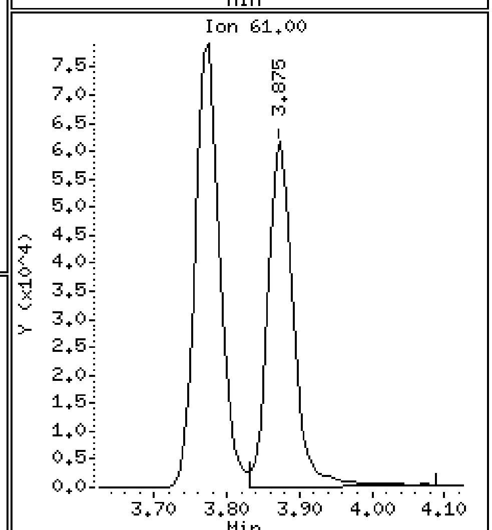


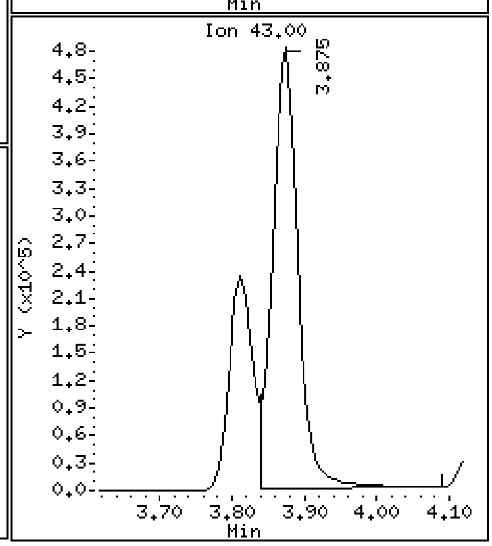












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

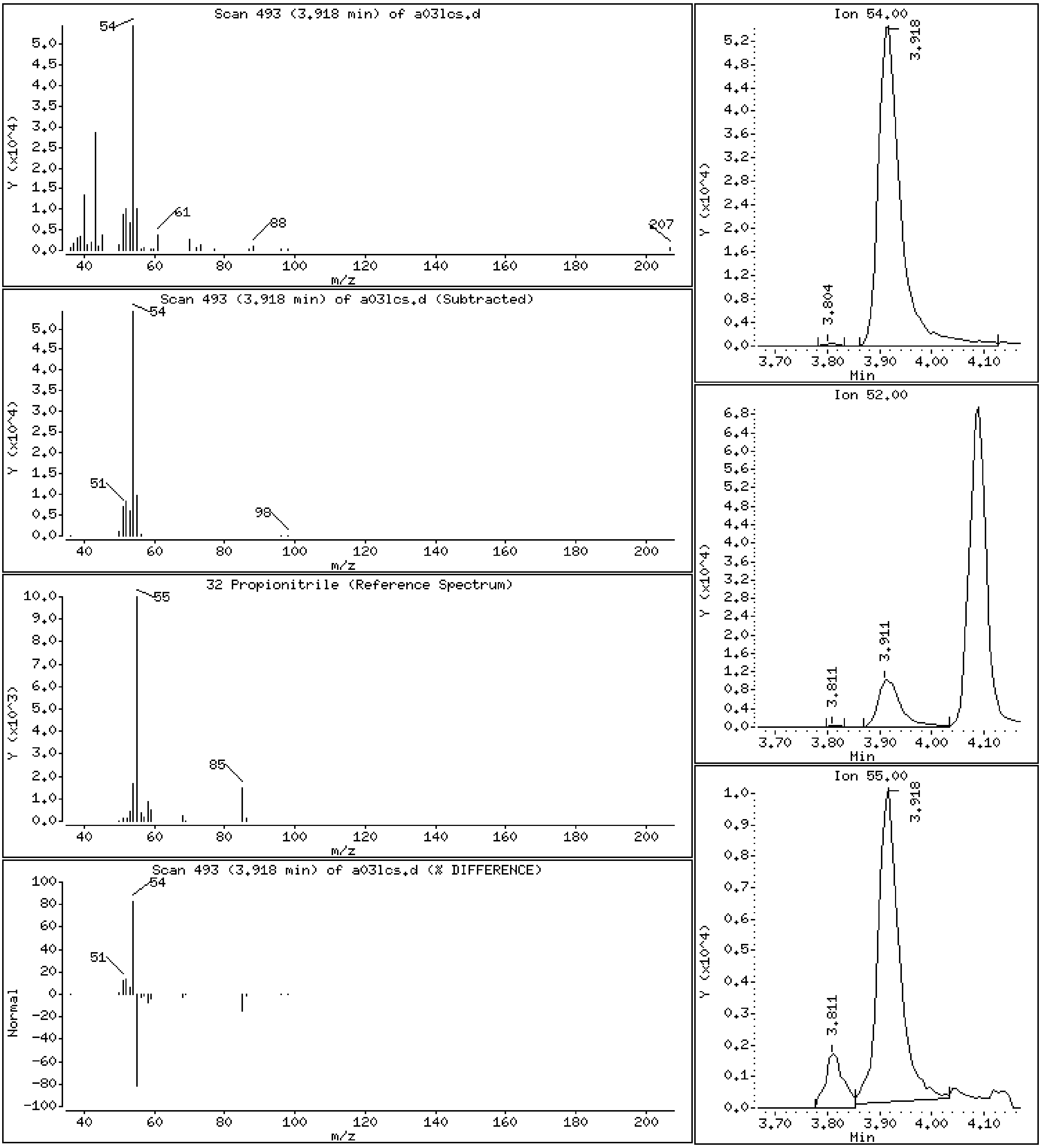
Column phase: DB-624

Column diameter: 0.18

32 Propionitrile

Concentration: 220 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

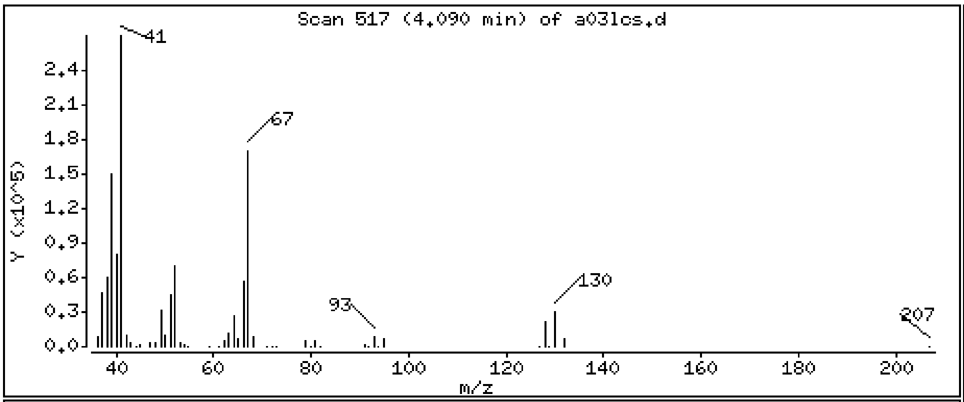
Column phase: DB-624

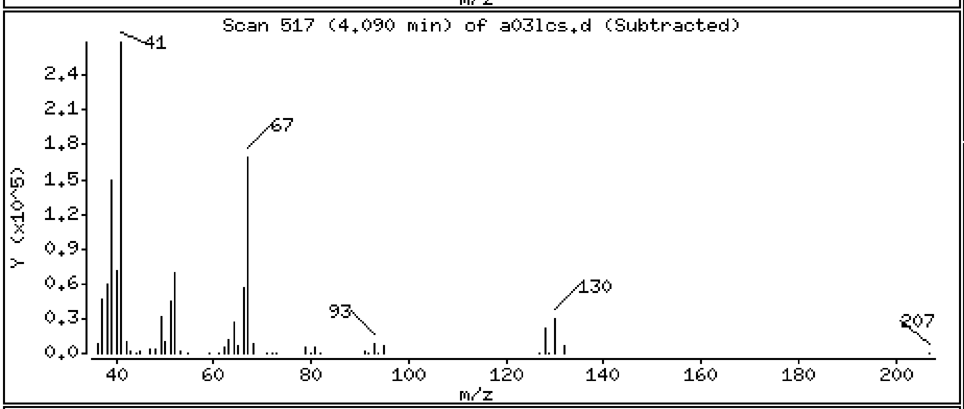
Column diameter: 0.18

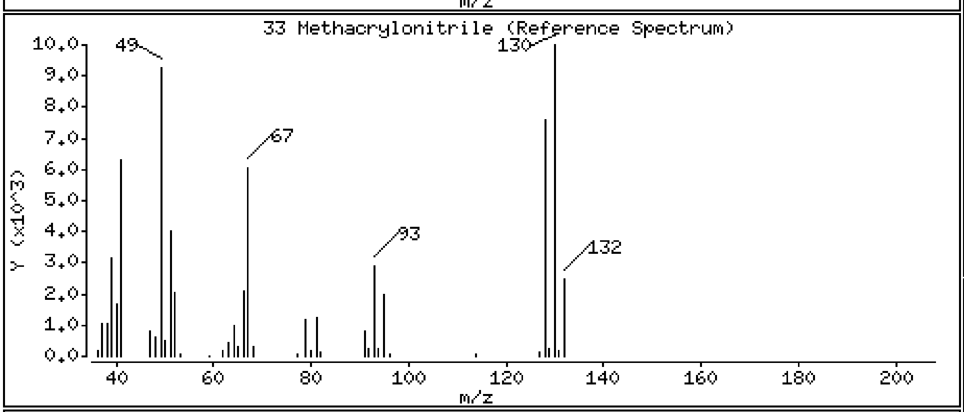
33 Methacrylonitrile

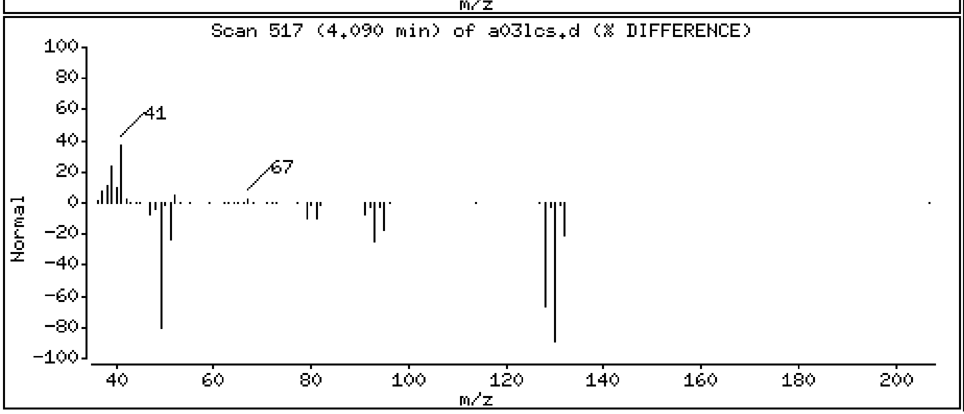
Concentration: 201 ppb

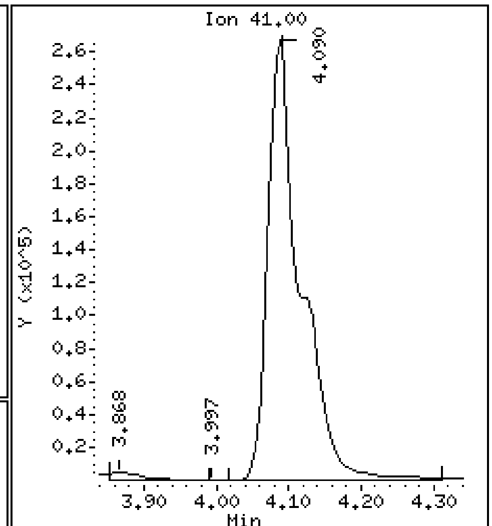
Review Code:

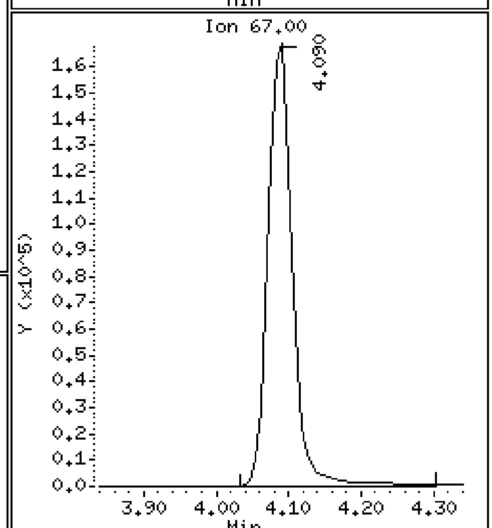


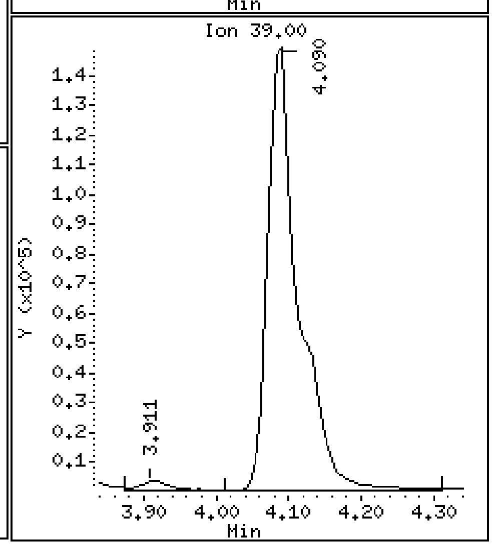












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Date : 23-JAN-2023 11:36

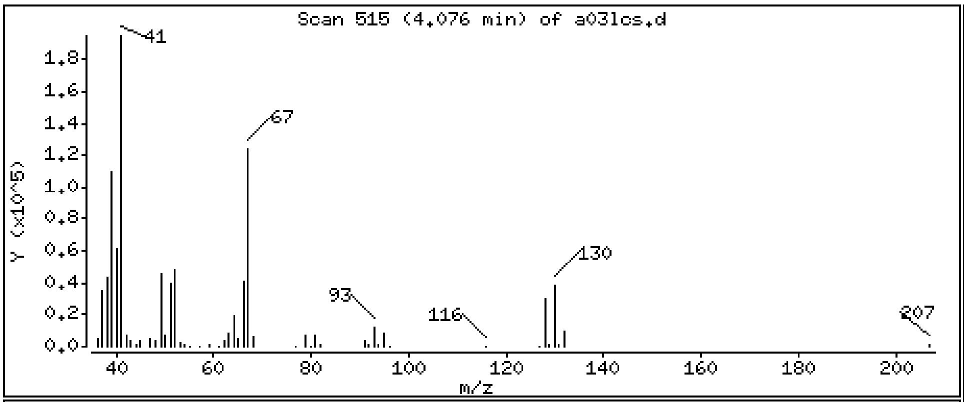
Client ID: Instrument: 50mvda.i

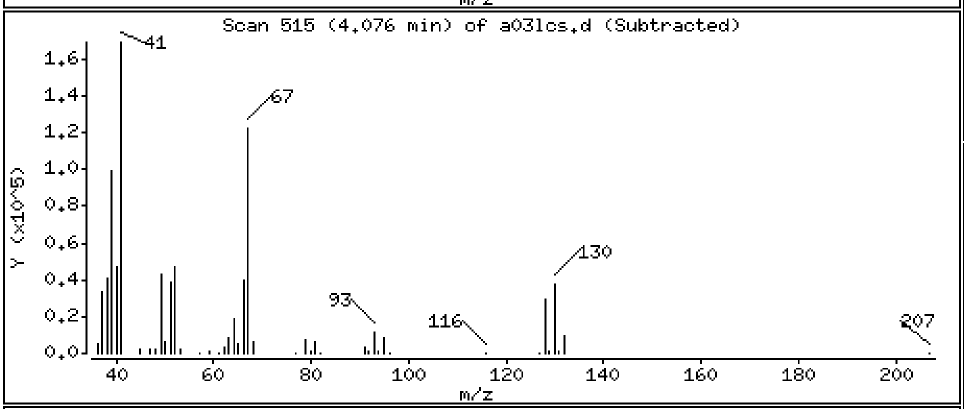
Sample Info: 3287446,336256:5

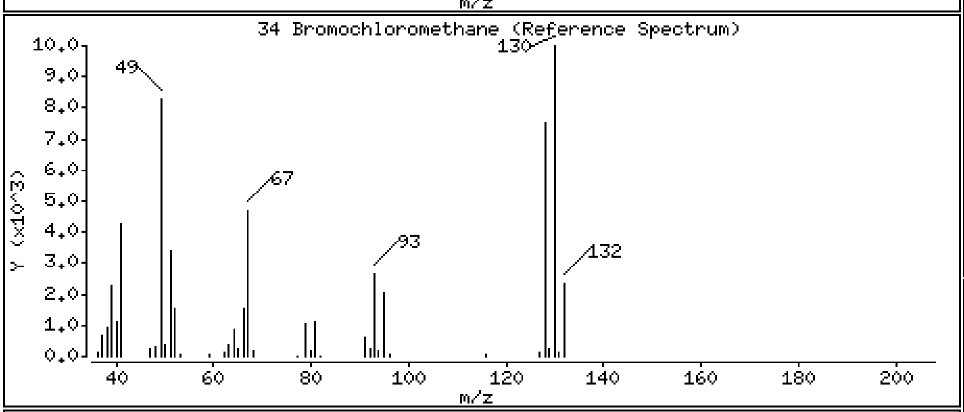
Purge Volume: 5.0 Operator: tkg

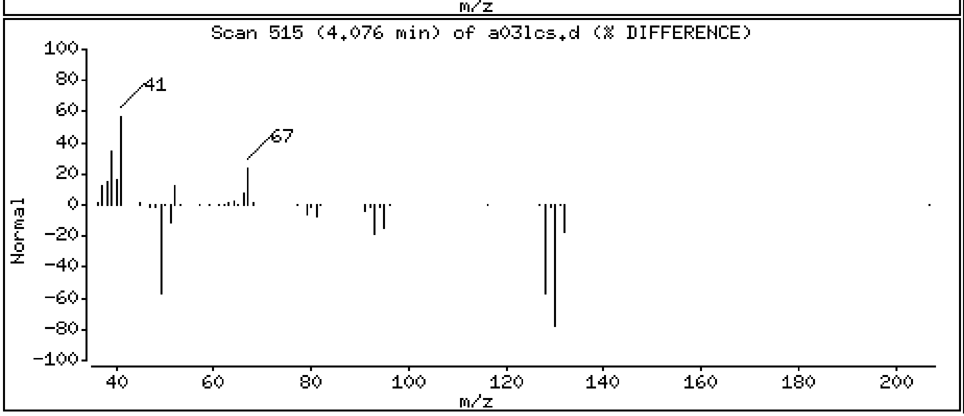
Column phase: DB-624 Column diameter: 0.18

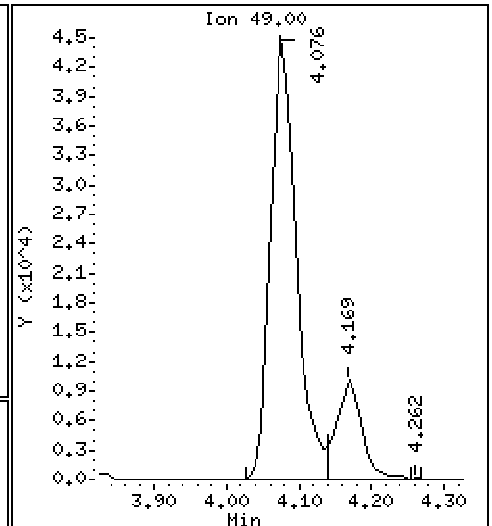
34 Bromochloromethane Concentration: 42.2 ppb Review Code:

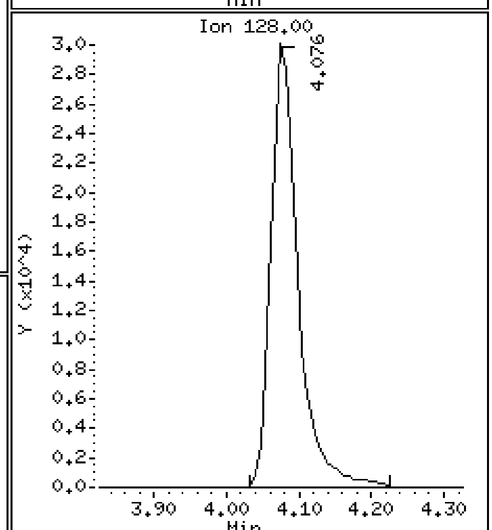


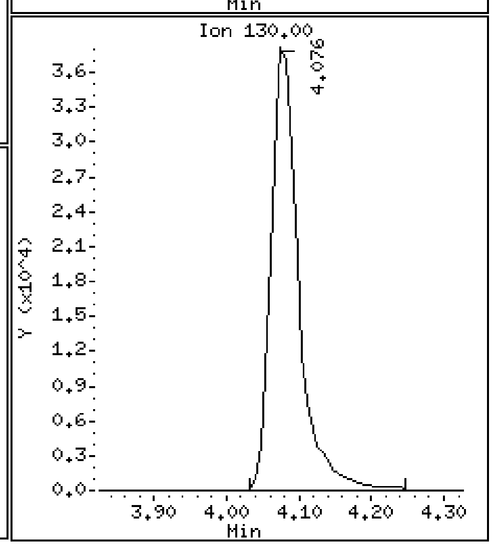












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

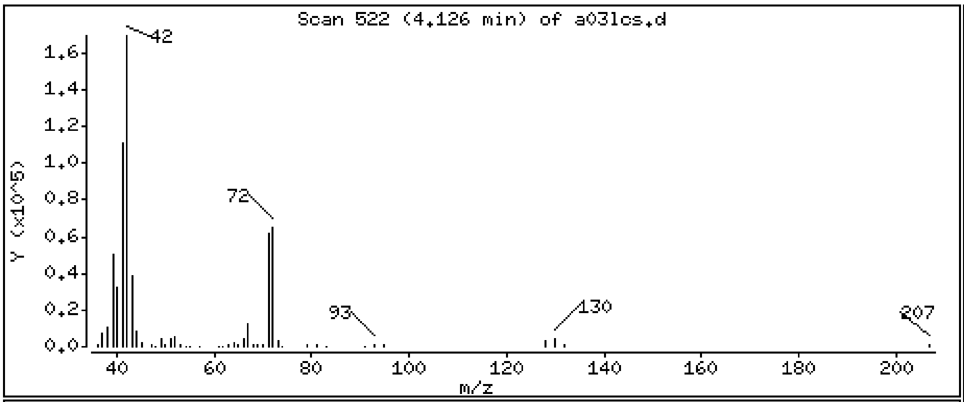
Column phase: DB-624

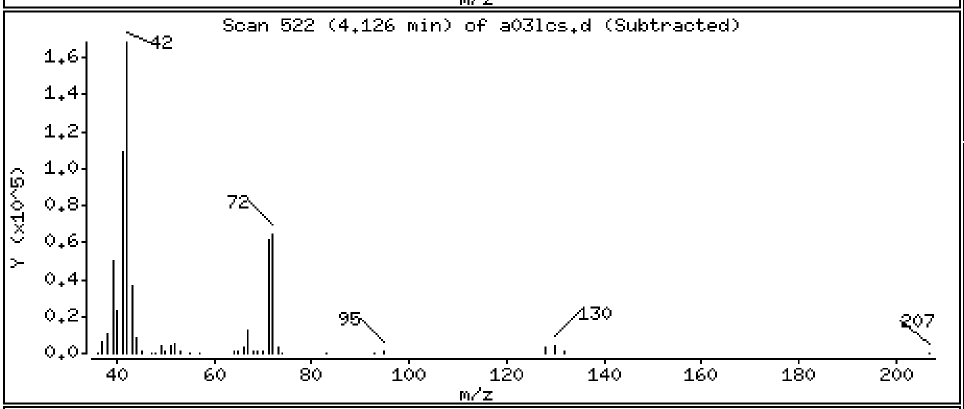
Column diameter: 0.18

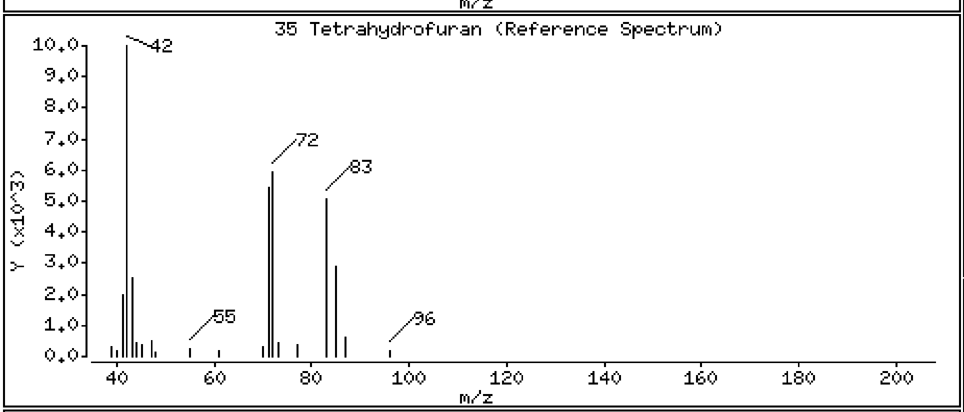
35 Tetrahydrofuran

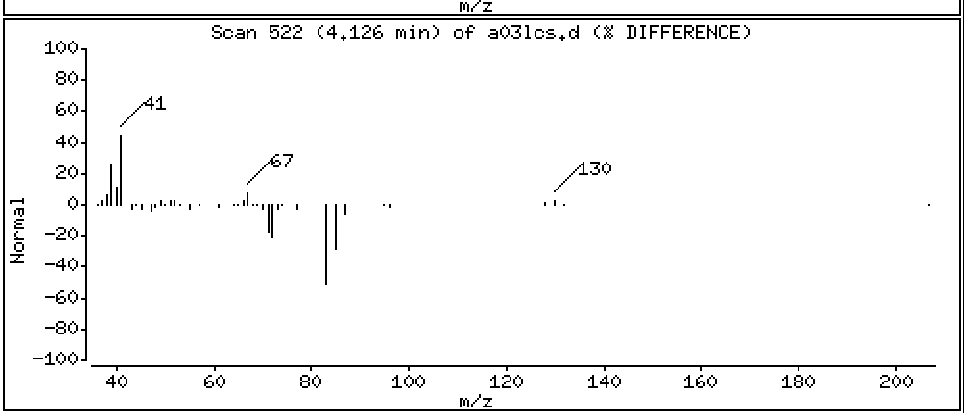
Concentration: 202 ppb

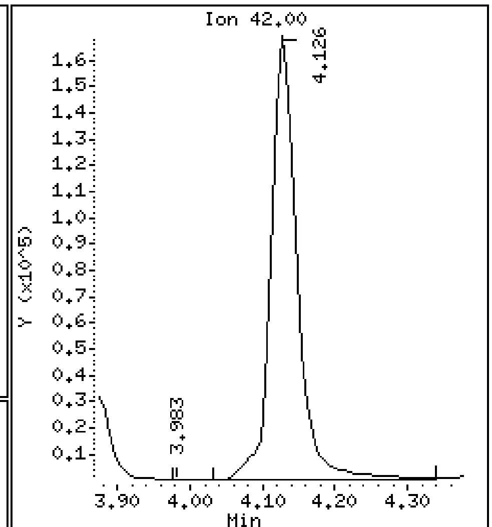
Review Code:

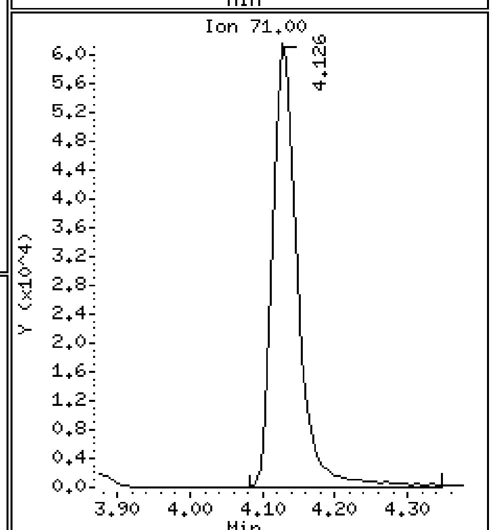


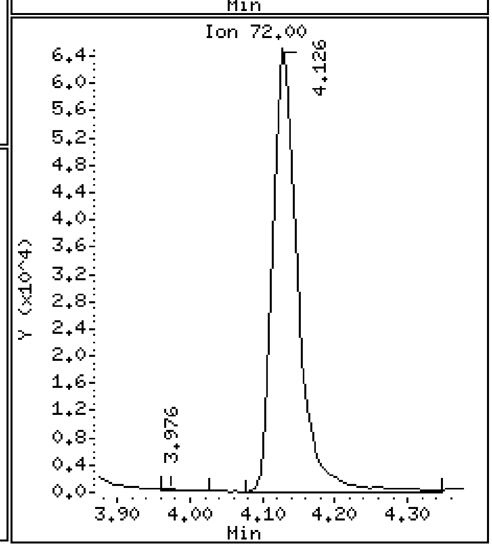












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

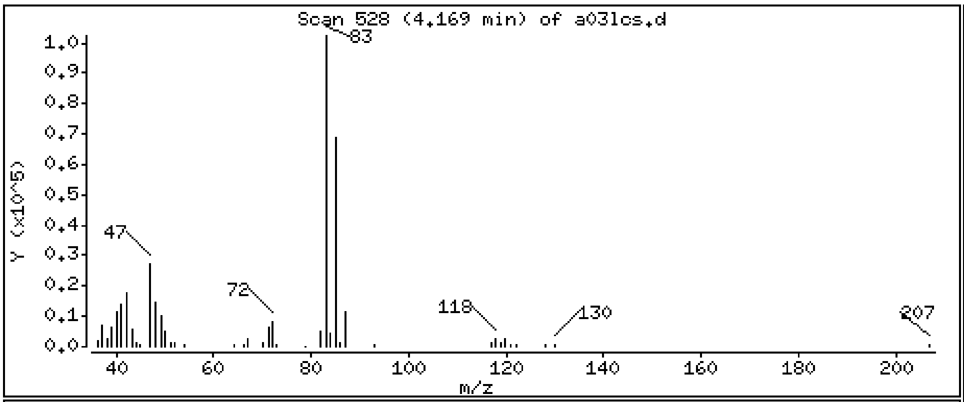
Column phase: DB-624

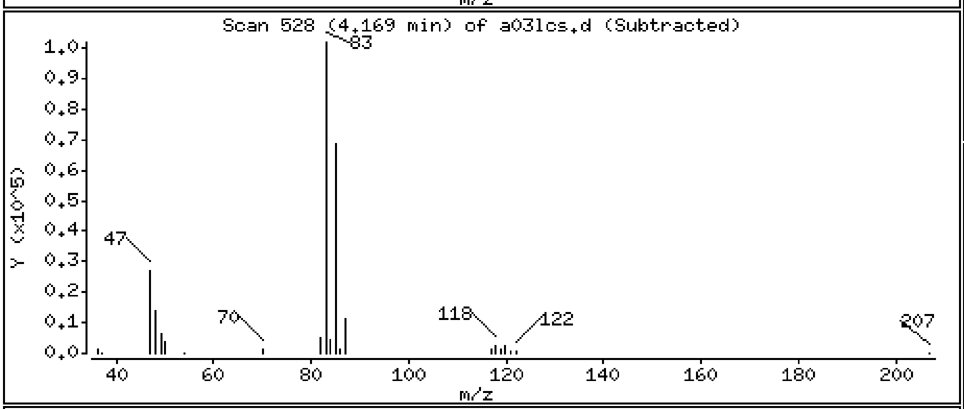
Column diameter: 0.18

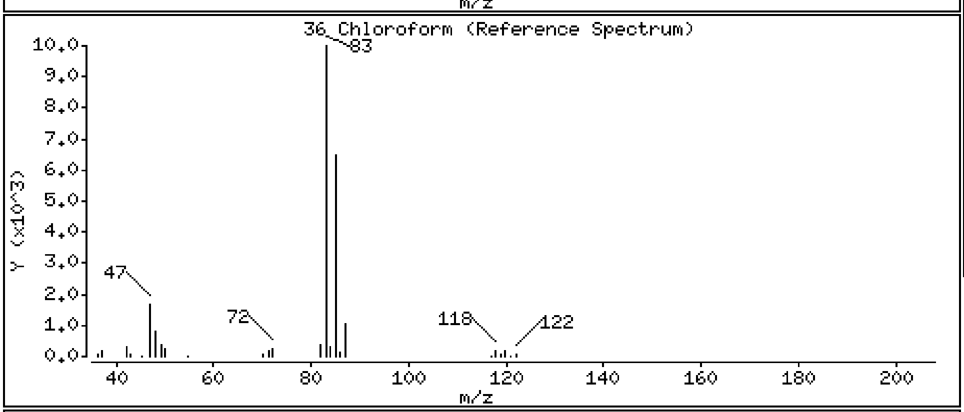
36 Chloroform

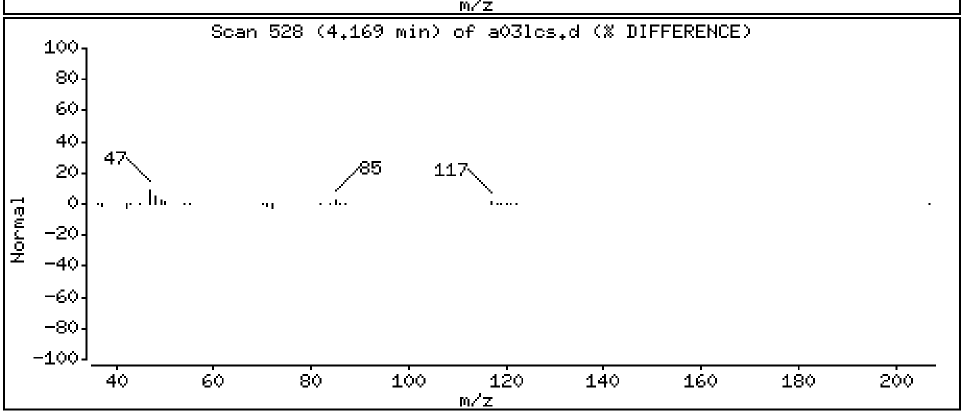
Concentration: 43.7 ppb

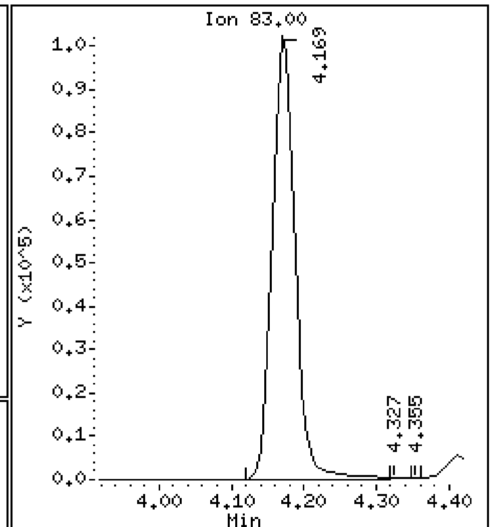
Review Code:

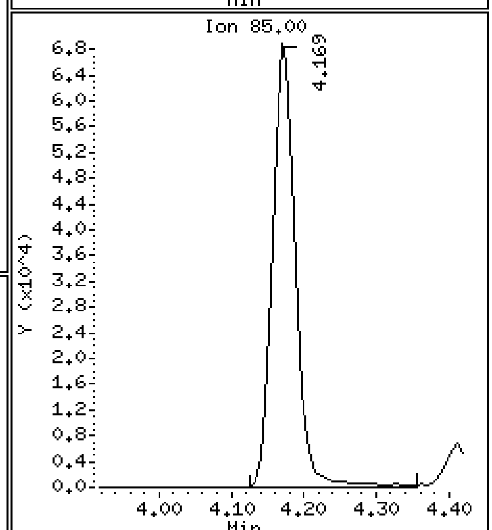












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

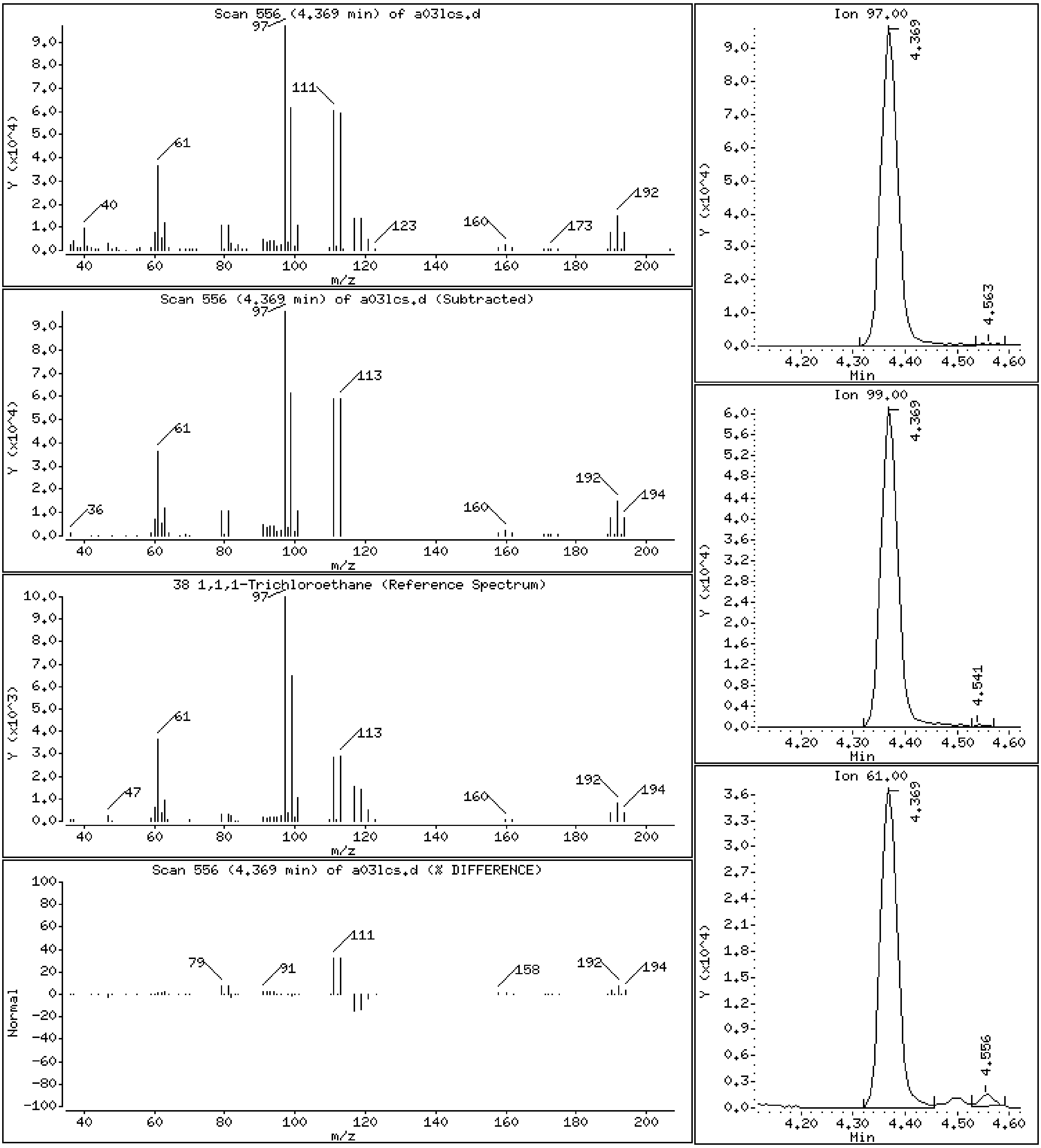
Column phase: DB-624

Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 47.6 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

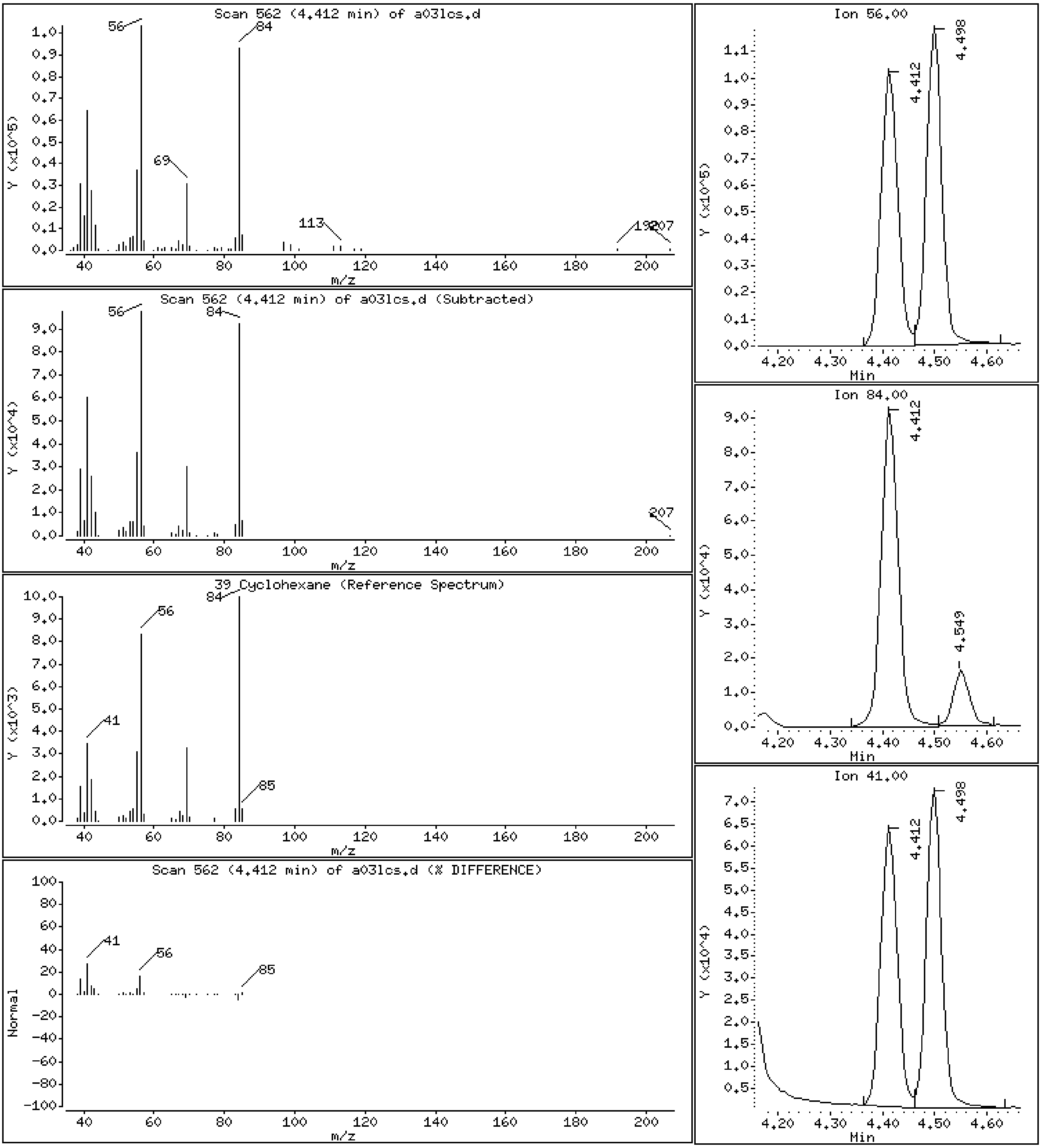
Column phase: DB-624

Column diameter: 0.18

39 Cyclohexane

Concentration: 40.9 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

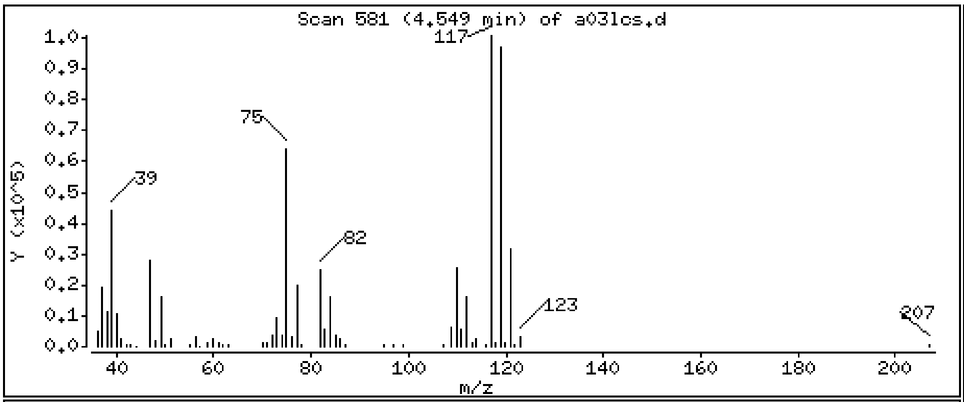
Column phase: DB-624

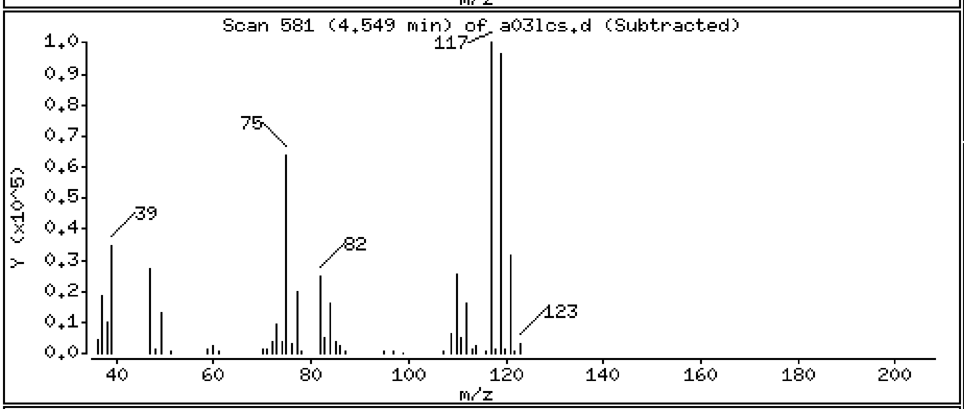
Column diameter: 0.18

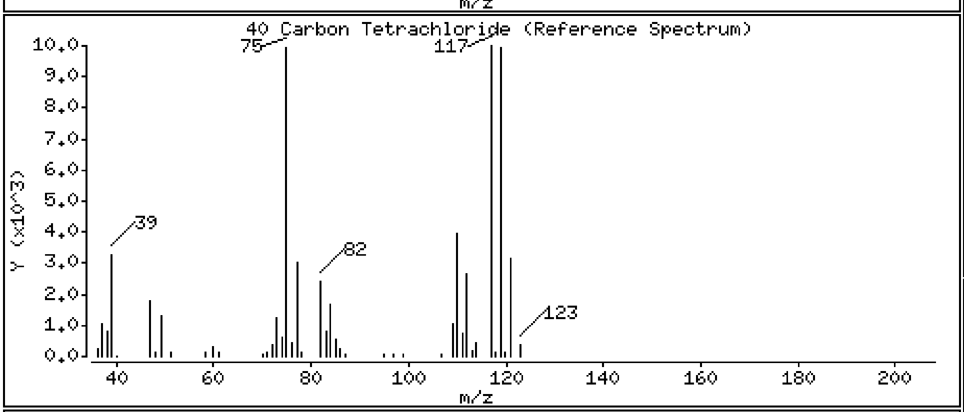
40 Carbon Tetrachloride

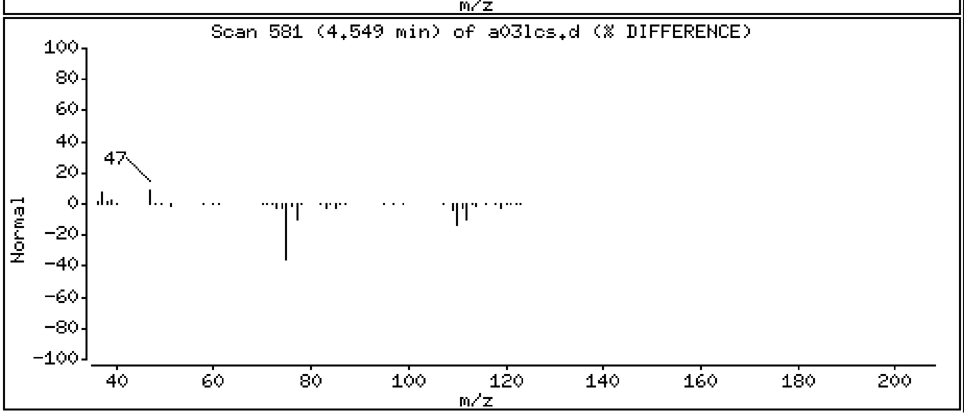
Concentration: 51.9 ppb

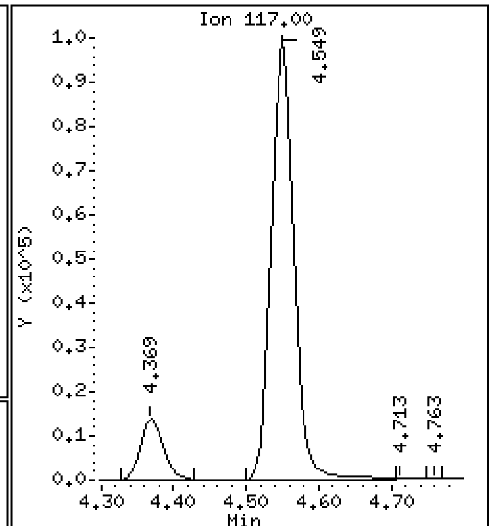
Review Code:

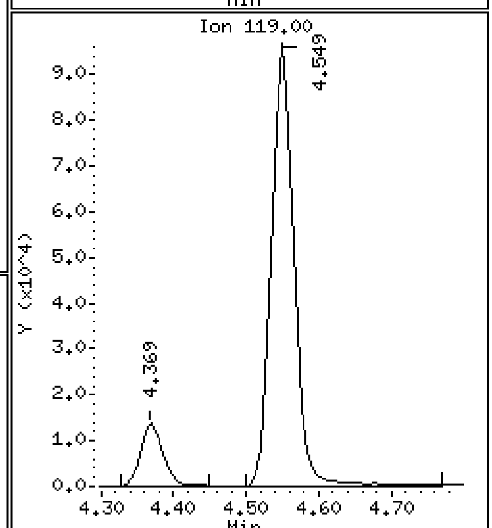


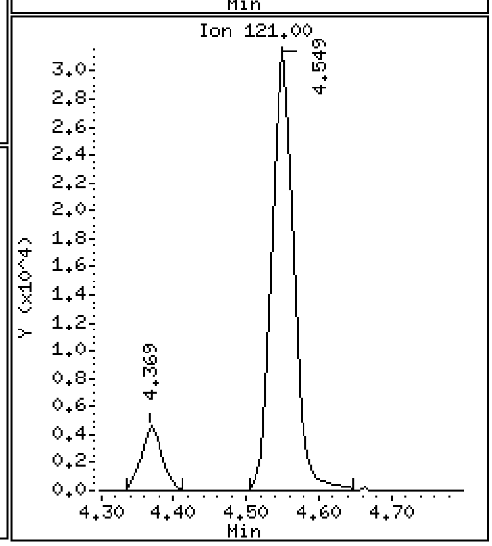












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

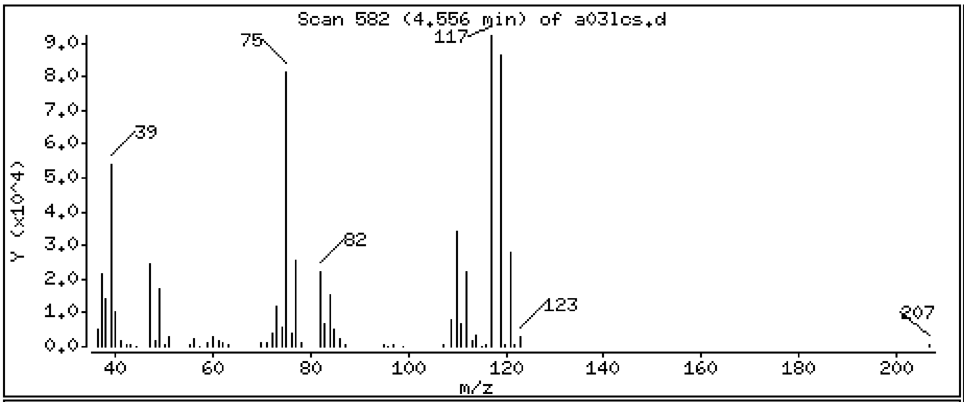
Column phase: DB-624

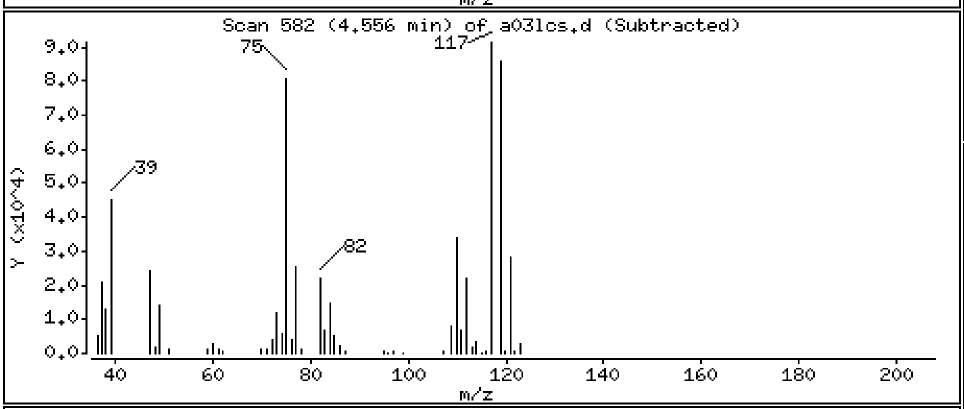
Column diameter: 0.18

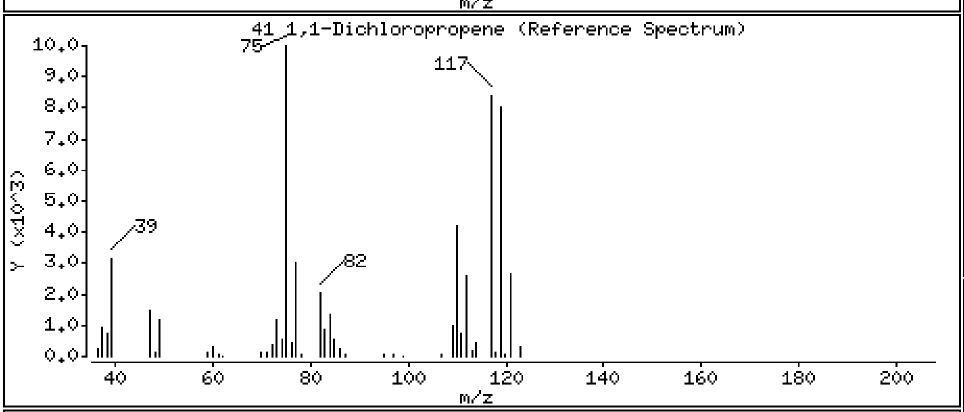
41 1,1-Dichloropropene

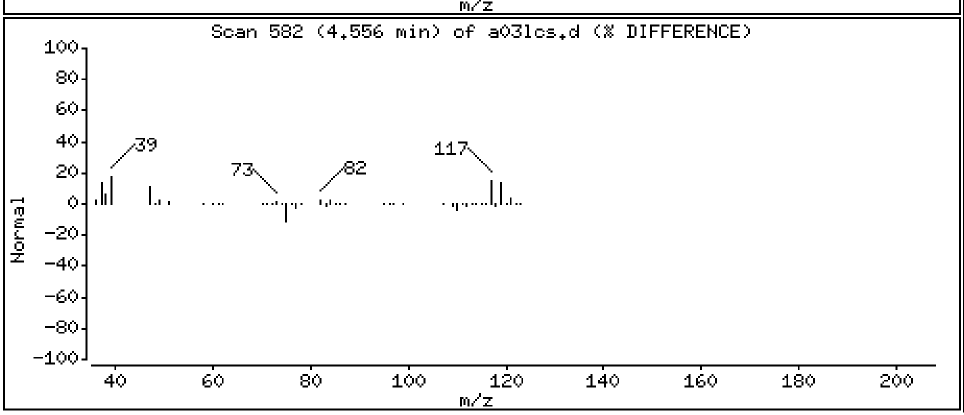
Concentration: 45.6 ppb

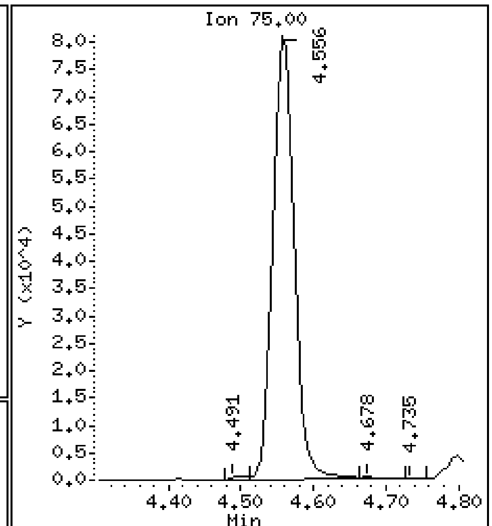
Review Code:

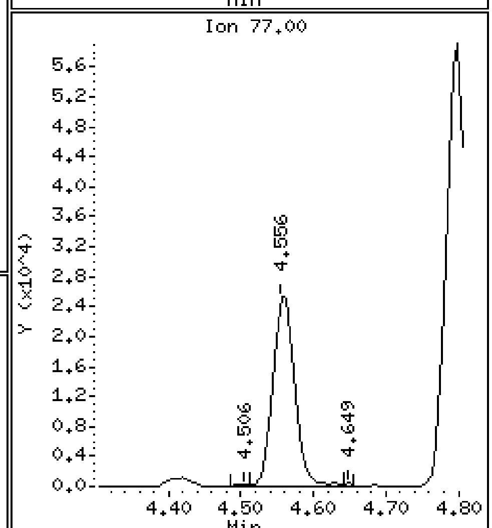


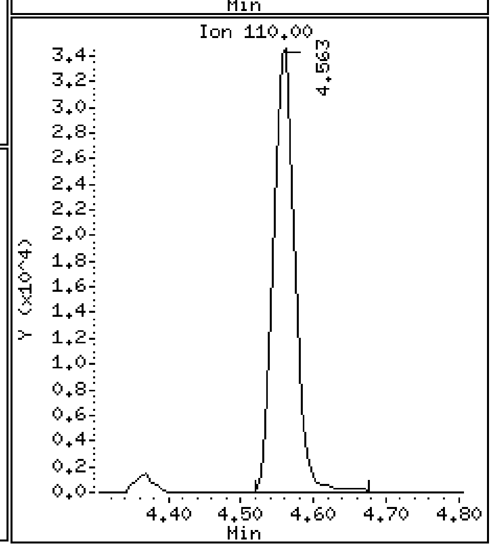












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

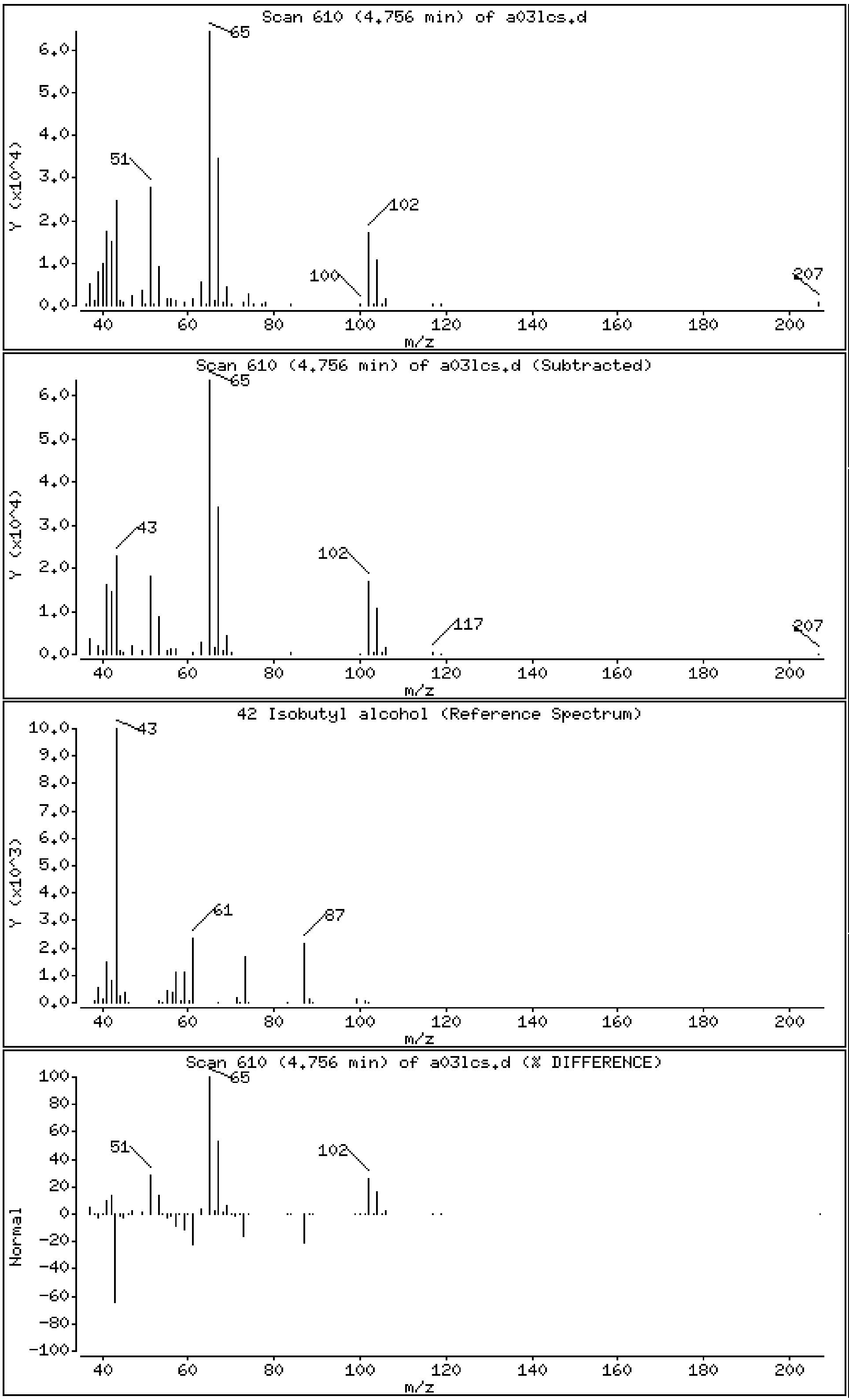
Column phase: DB-624

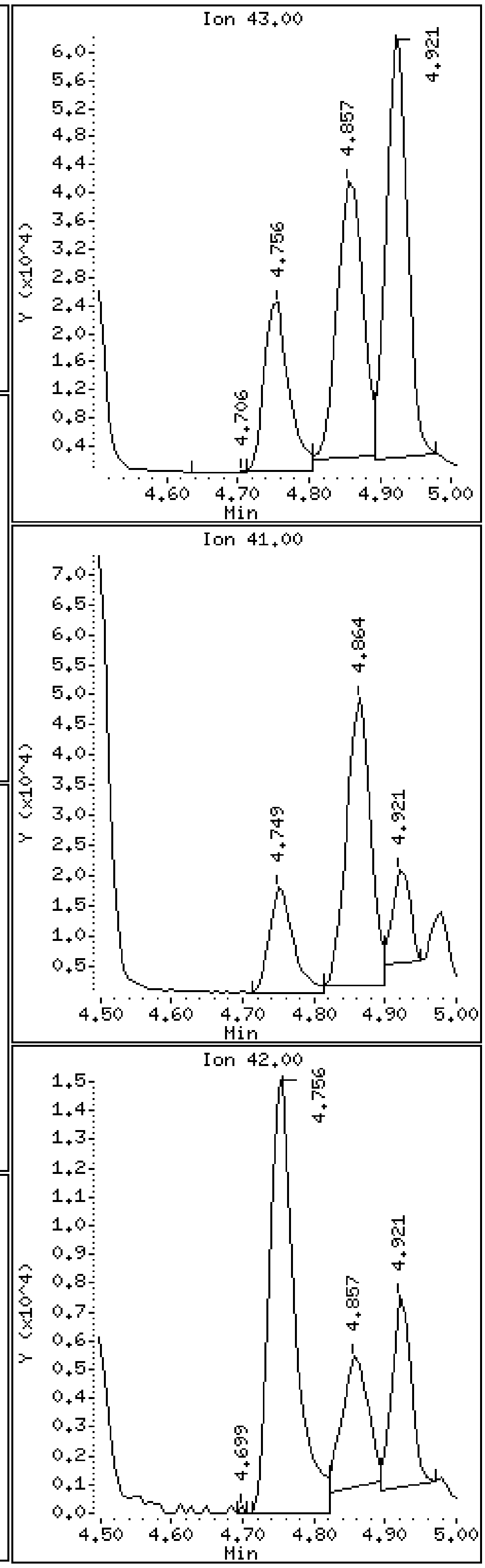
Column diameter: 0.18

42 Isobutyl alcohol

Concentration: 228 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

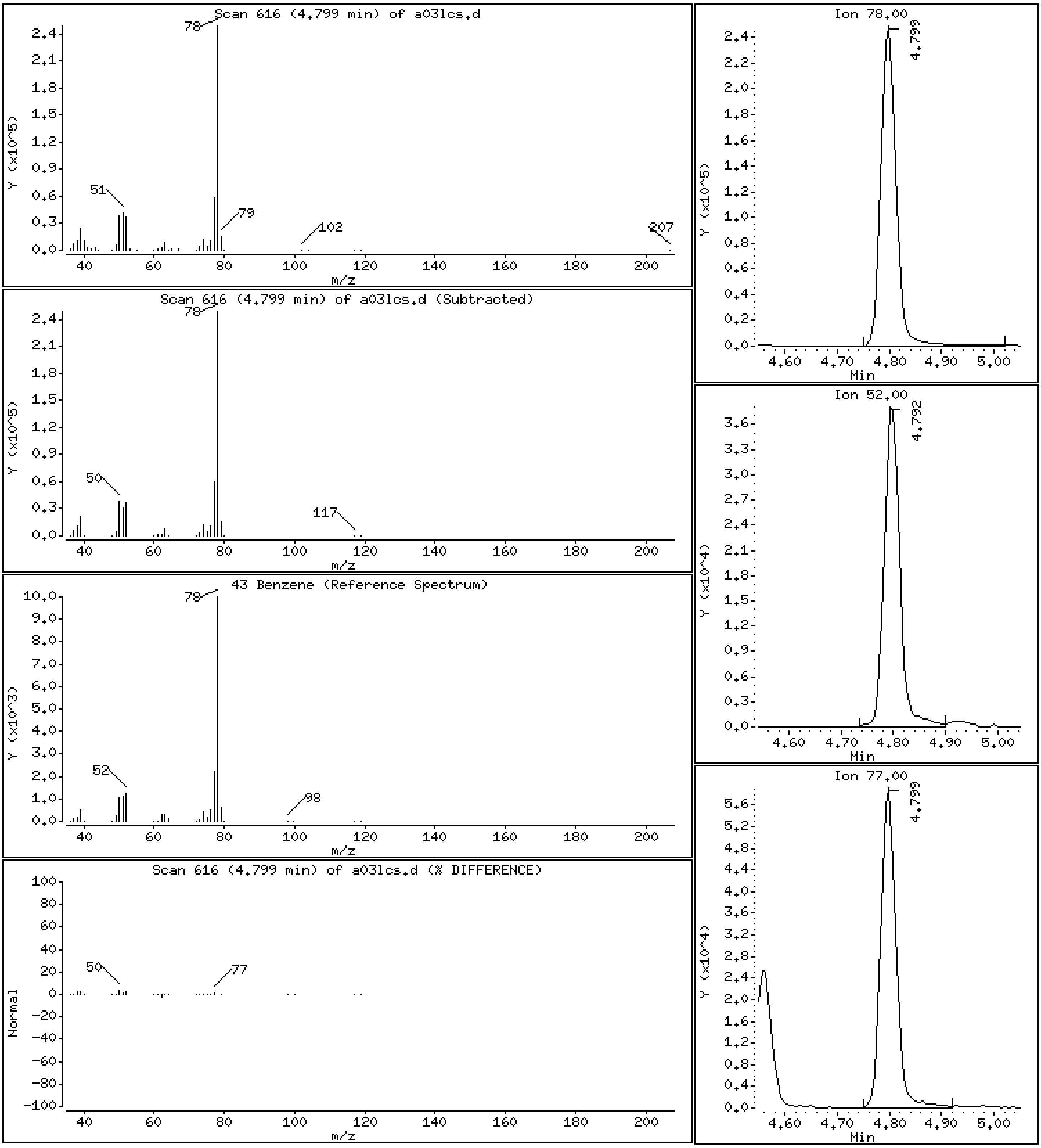
Column phase: DB-624

Column diameter: 0.18

43 Benzene

Concentration: 43.4 ppb

Review Code:



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Date : 23-JAN-2023 11:36

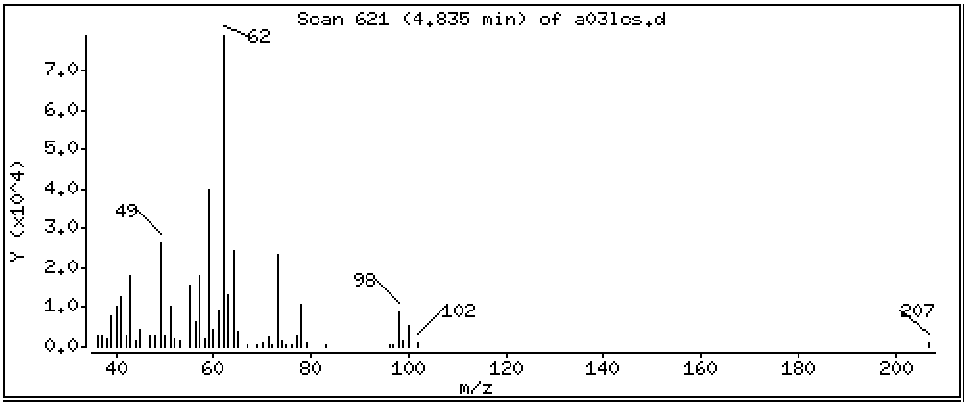
Client ID: Instrument: 50mvda.i

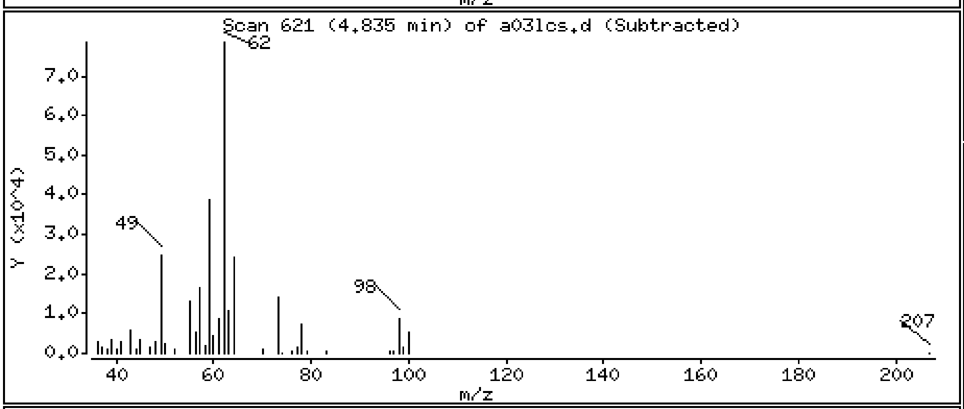
Sample Info: 3287446,336256:5

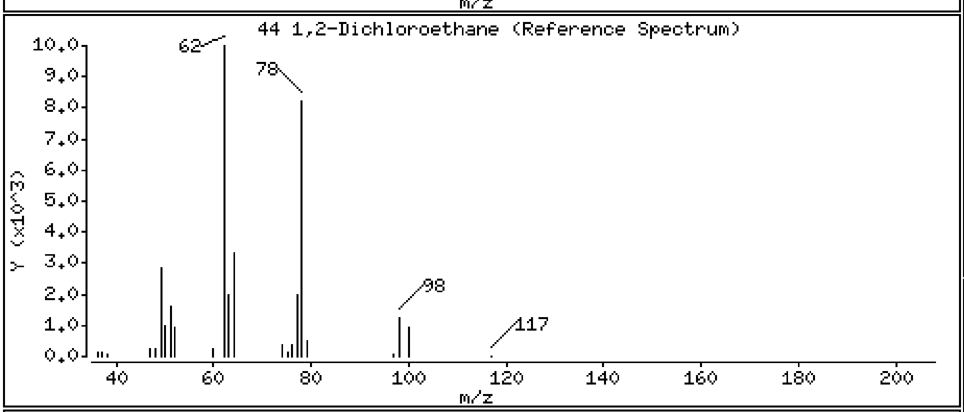
Purge Volume: 5.0 Operator: tkg

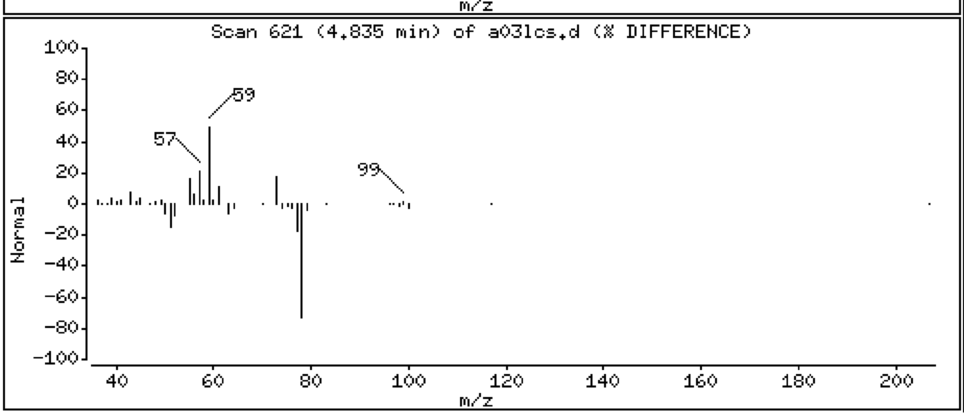
Column phase: DB-624 Column diameter: 0.18

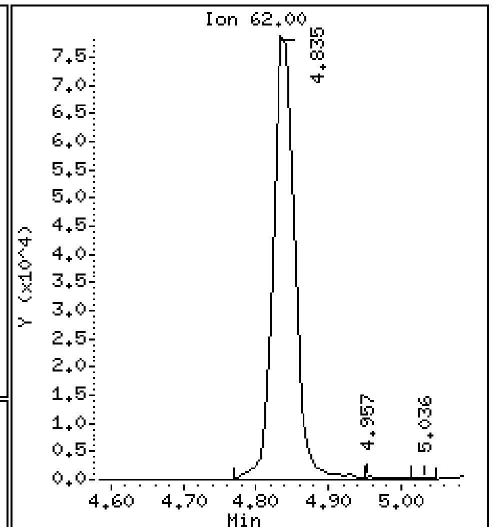
44 1,2-Dichloroethane Concentration: 43.7 ppb Review Code:

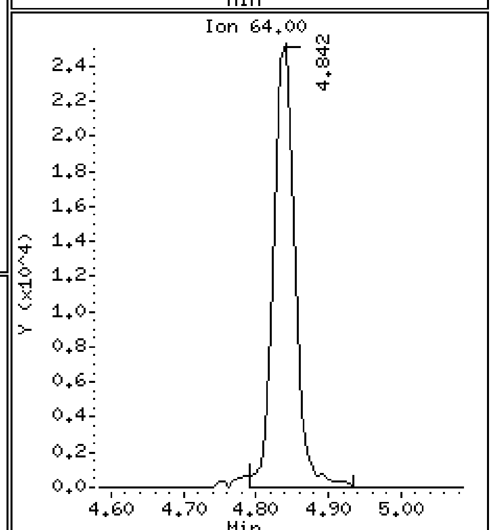


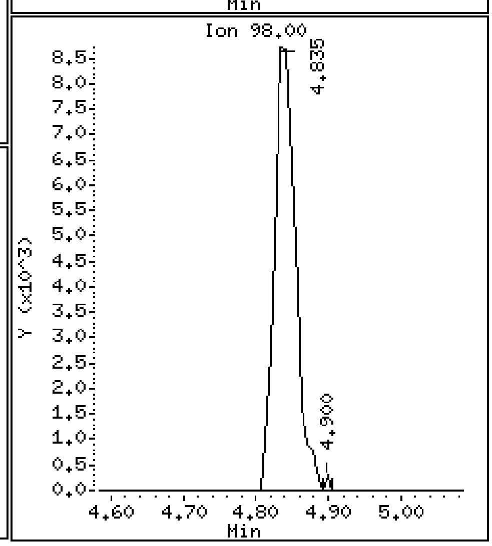












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Date : 23-JAN-2023 11:36

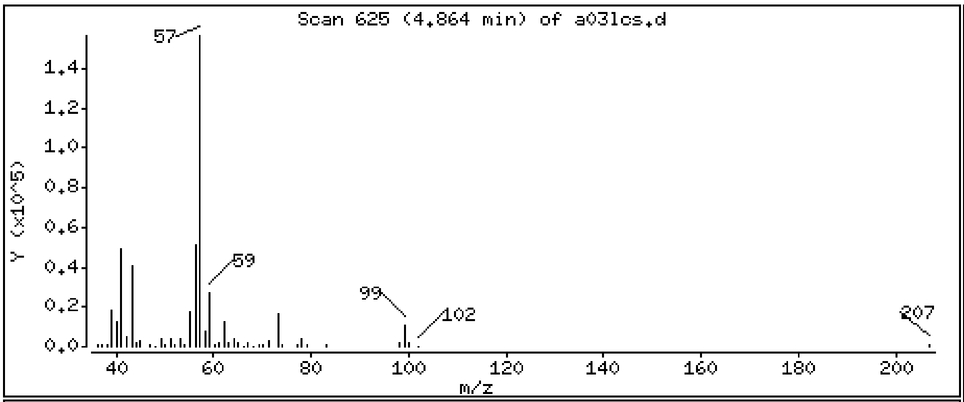
Client ID: Instrument: 50mvda.i

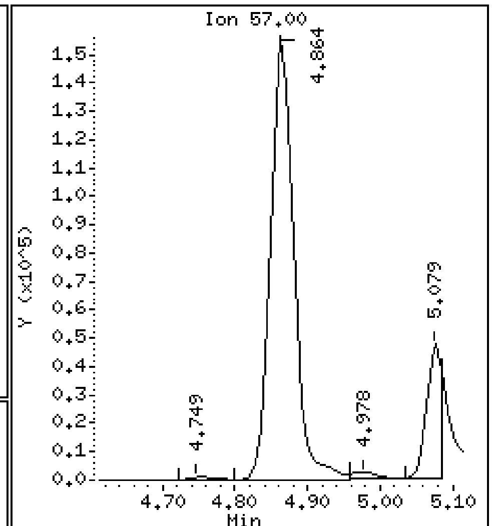
Sample Info: 3287446,336256:5

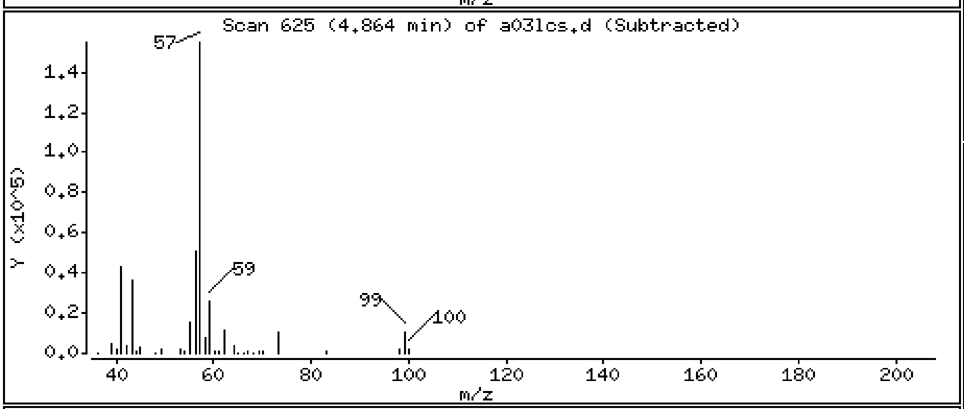
Purge Volume: 5.0 Operator: tkg

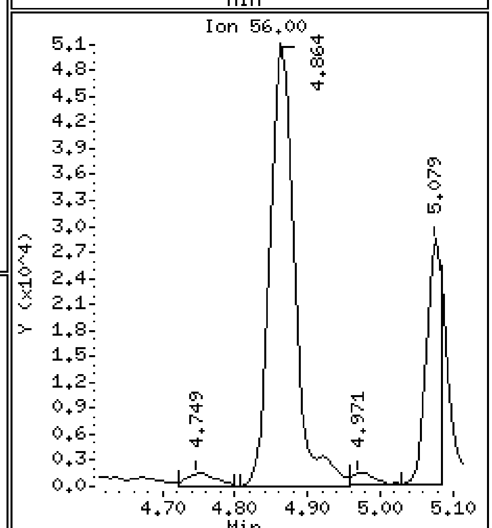
Column phase: DB-624 Column diameter: 0.18

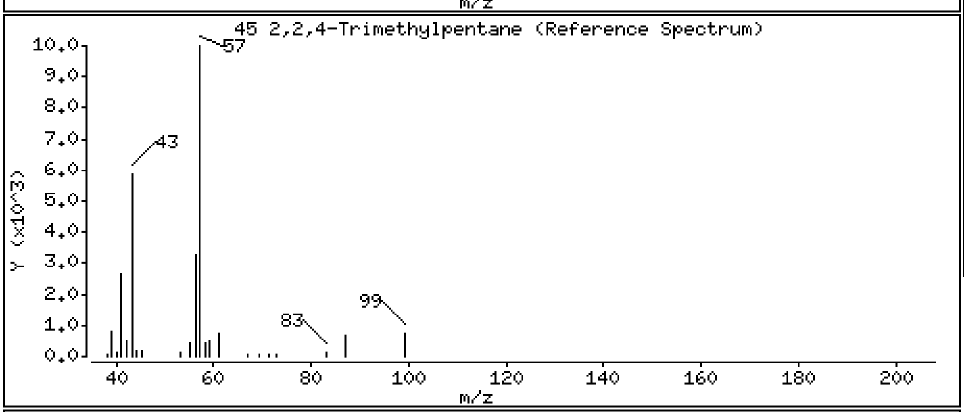
45 2,2,4-Trimethylpentane Concentration: 41.8 ppb Review Code:

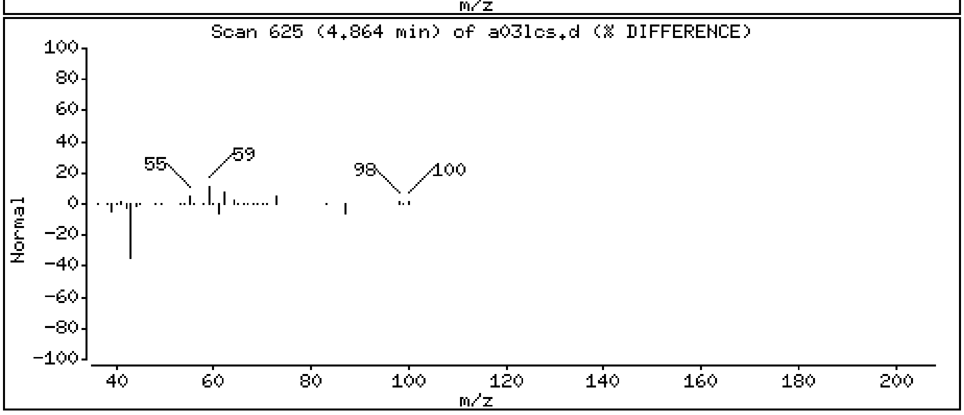












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Date : 23-JAN-2023 11:36

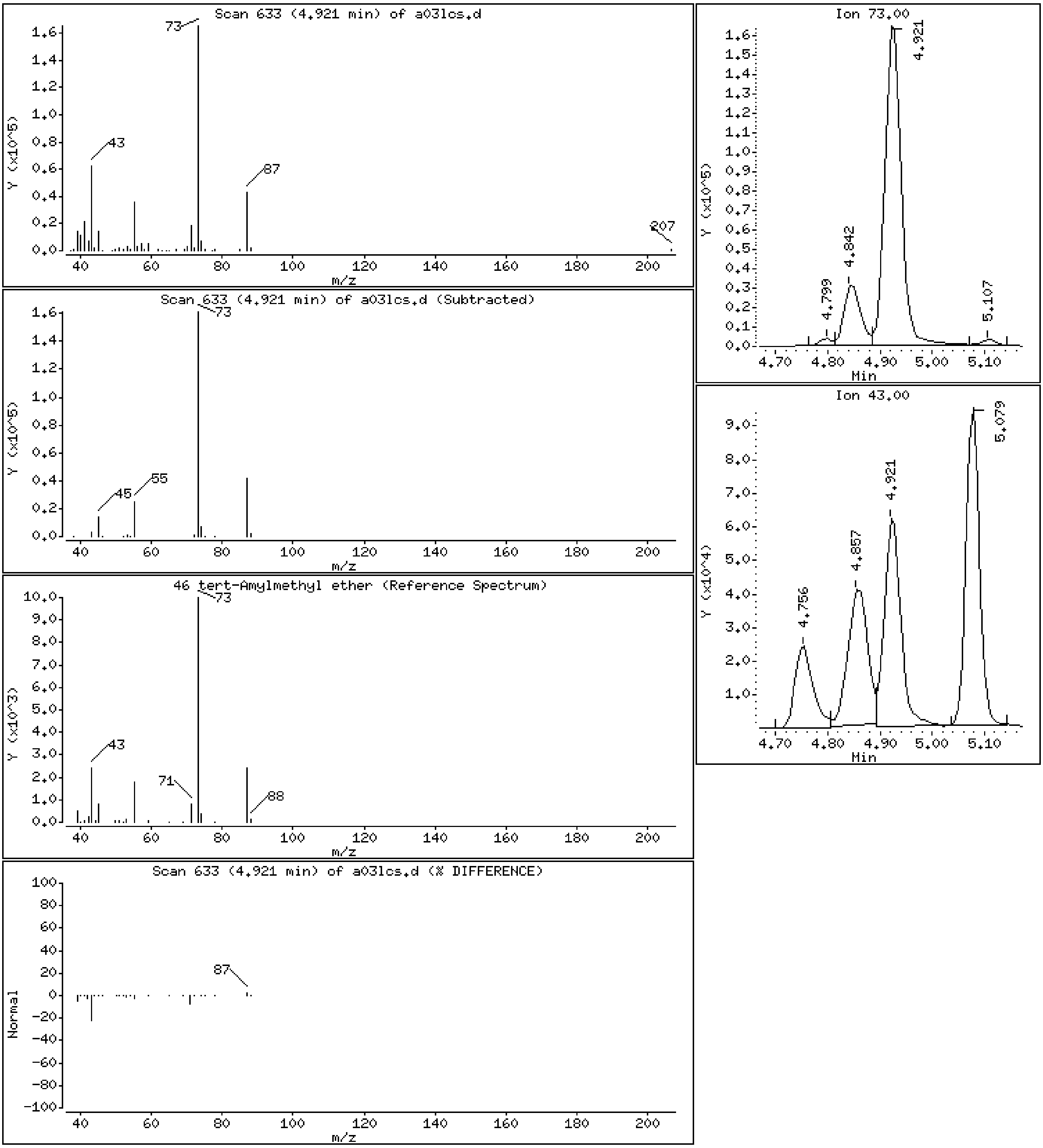
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

46 tert-Amylmethyl ether Concentration: 40.2 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

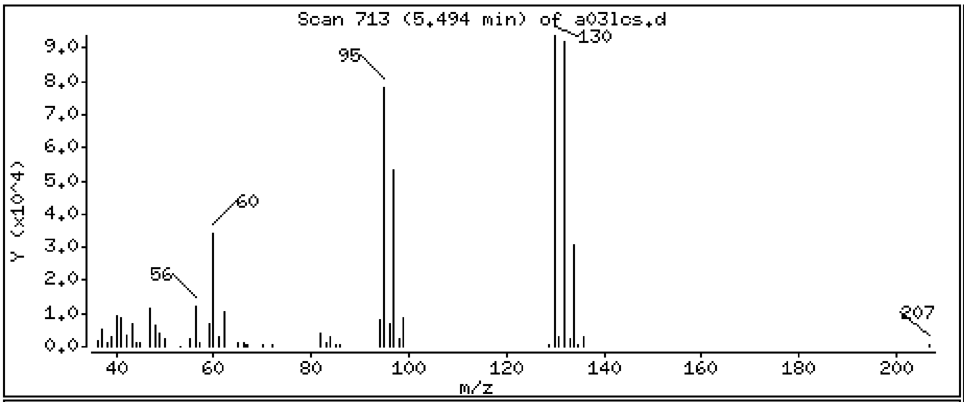
Column phase: DB-624

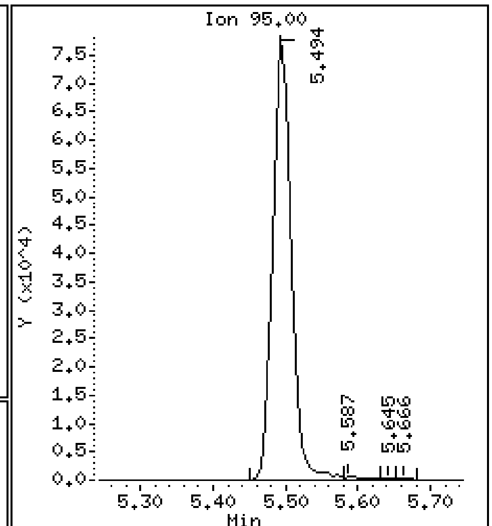
Column diameter: 0.18

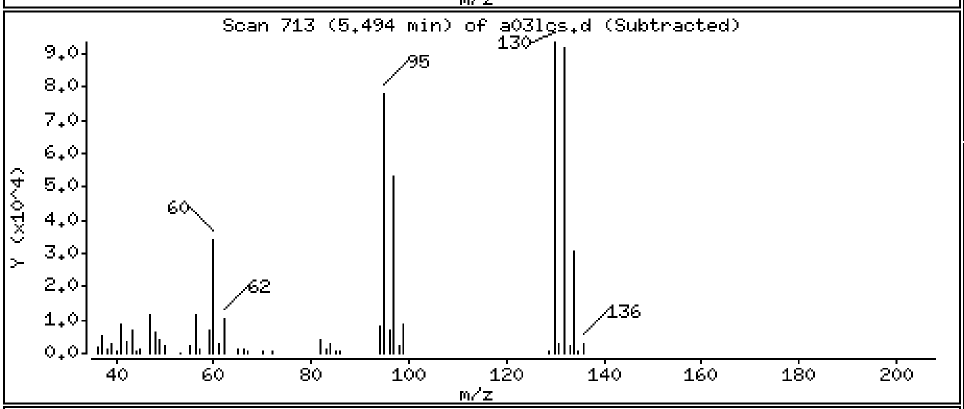
48 Trichloroethene

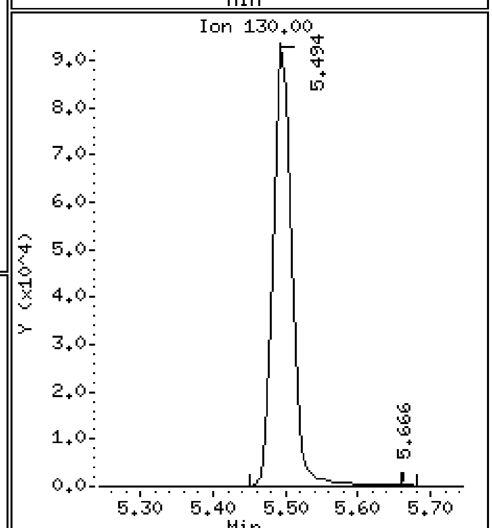
Concentration: 45.8 ppb

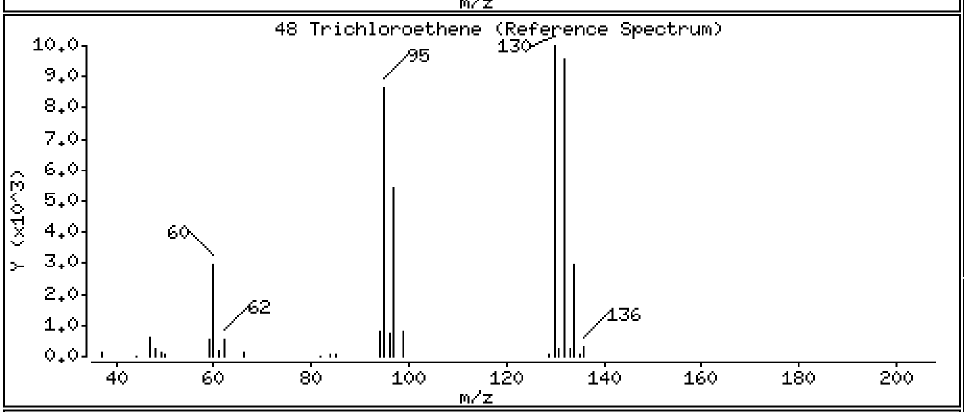
Review Code:

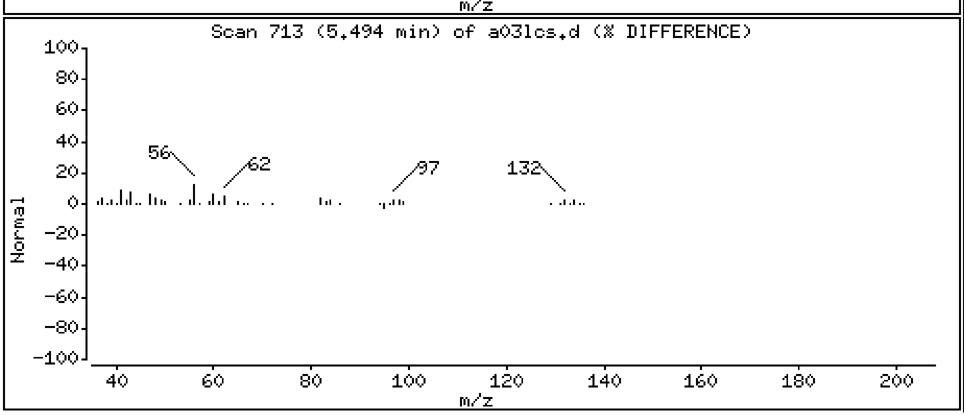


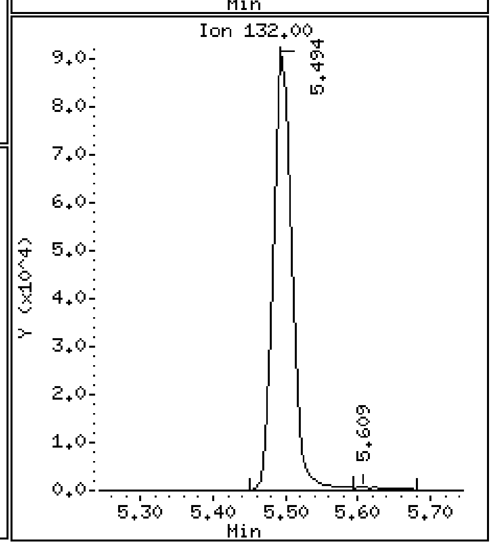












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

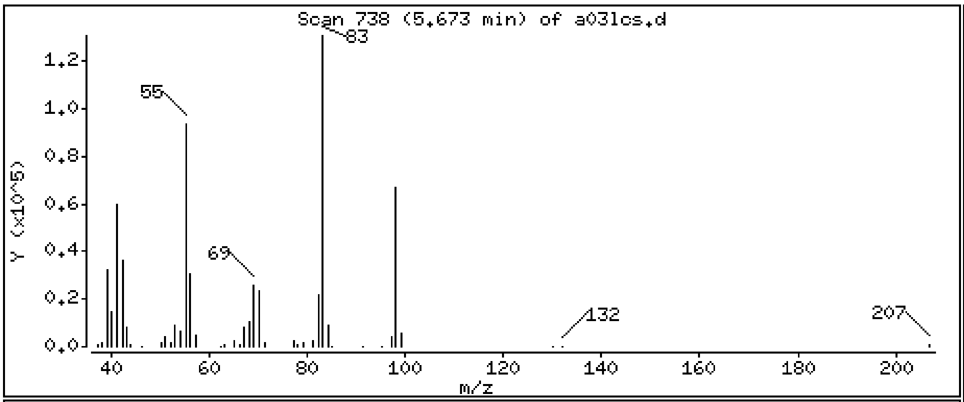
Column phase: DB-624

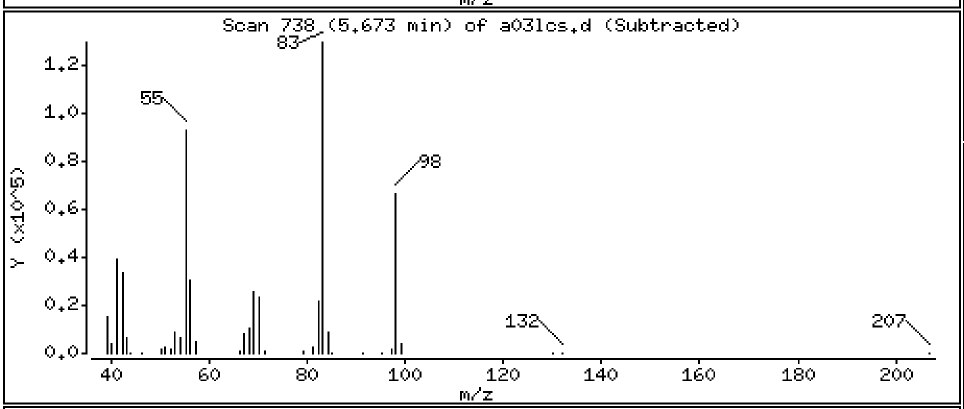
Column diameter: 0.18

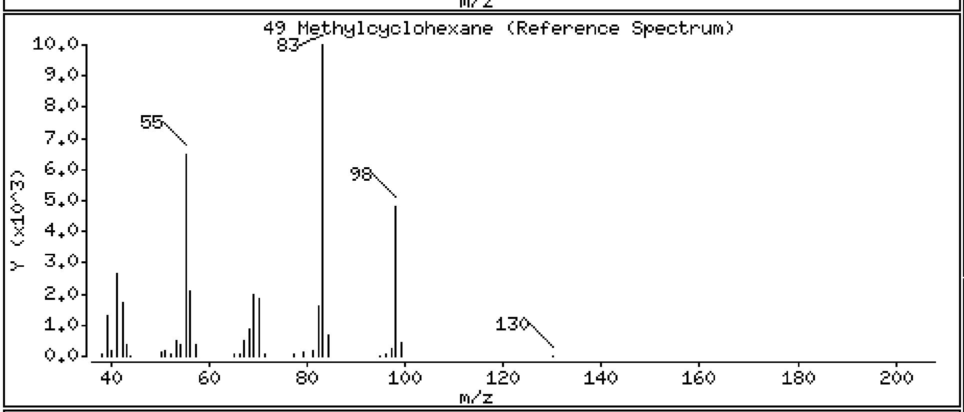
49 Methylcyclohexane

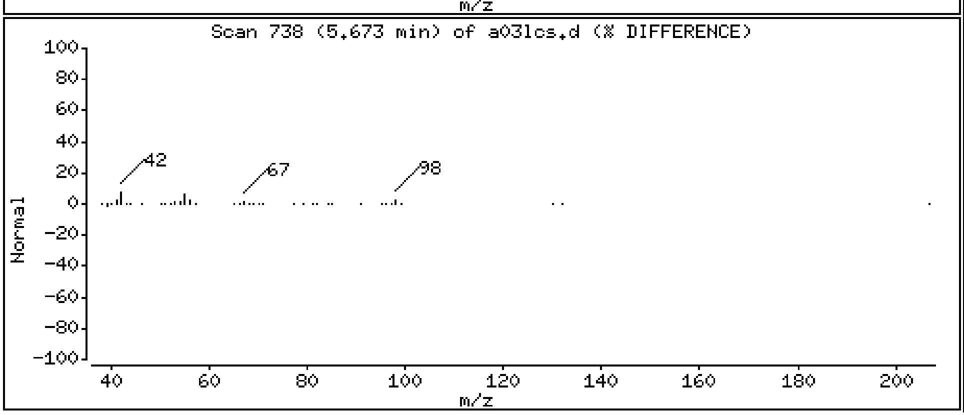
Concentration: 39.1 ppb

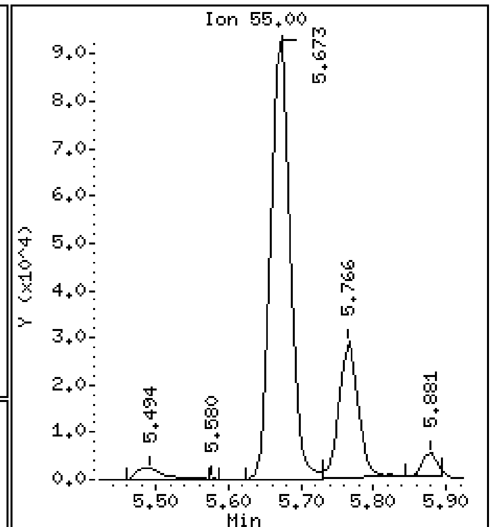
Review Code:

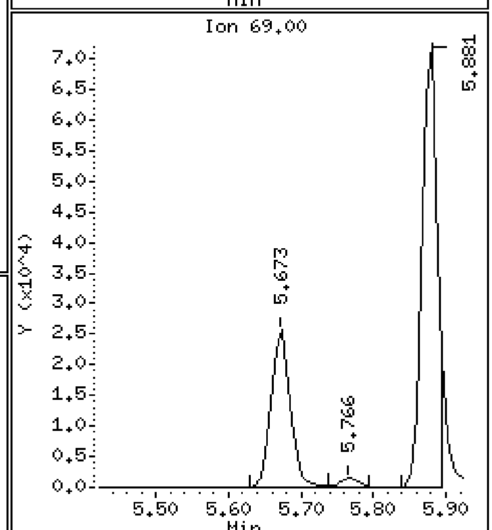


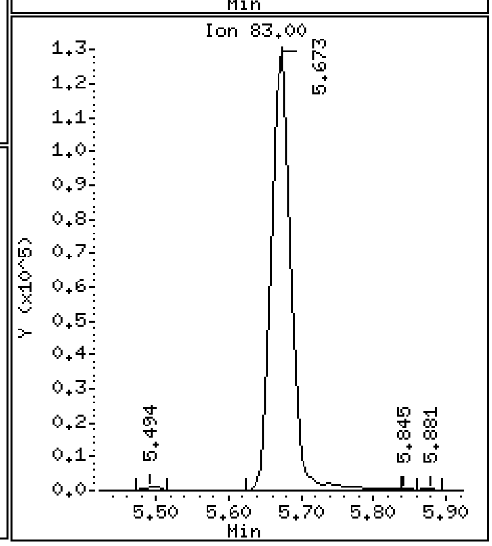












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

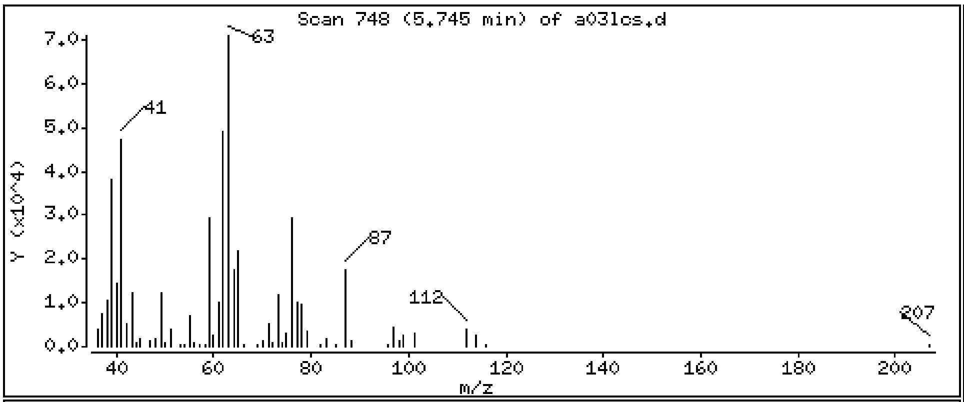
Column phase: DB-624

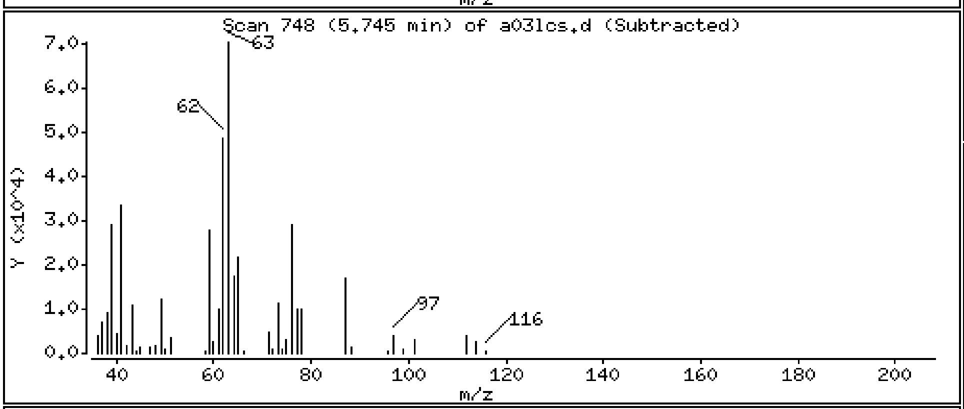
Column diameter: 0.18

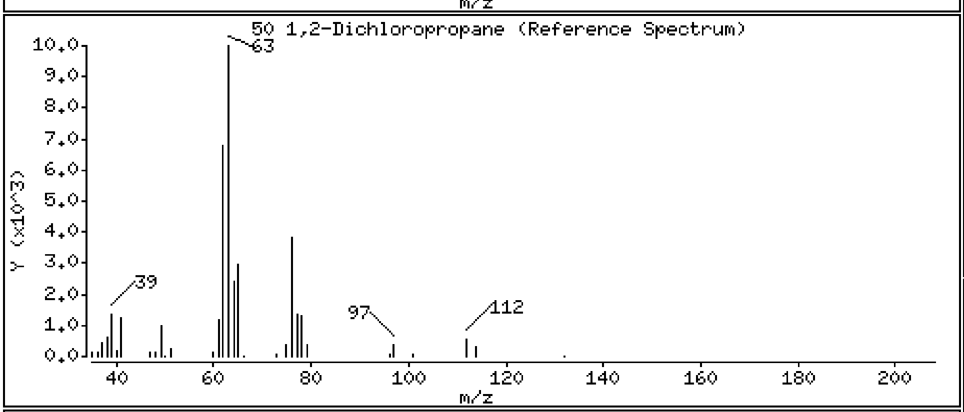
50 1,2-Dichloropropane

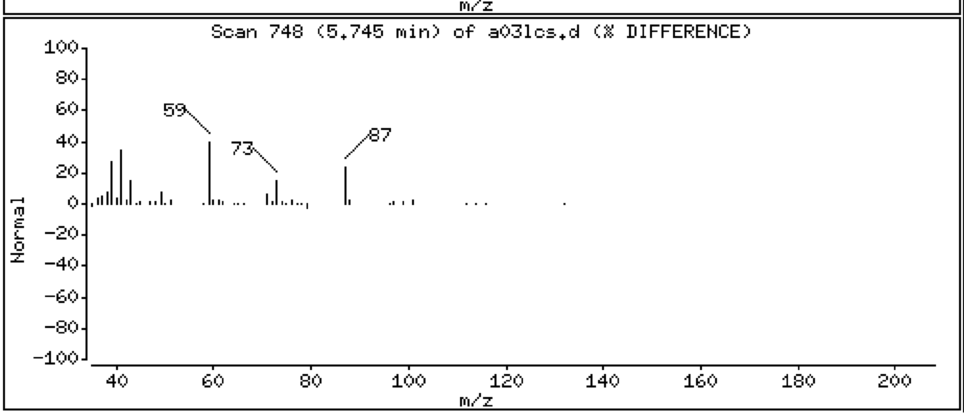
Concentration: 41.5 ppb

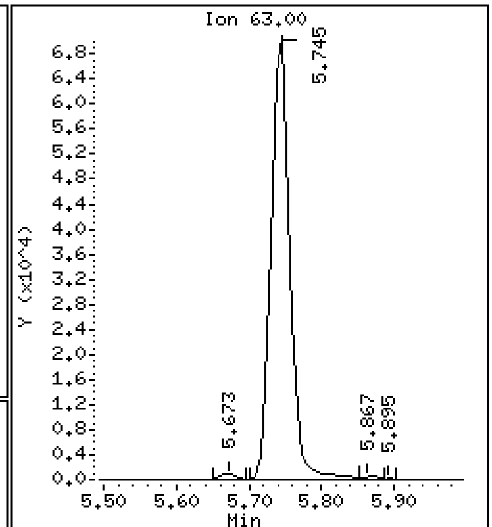
Review Code:

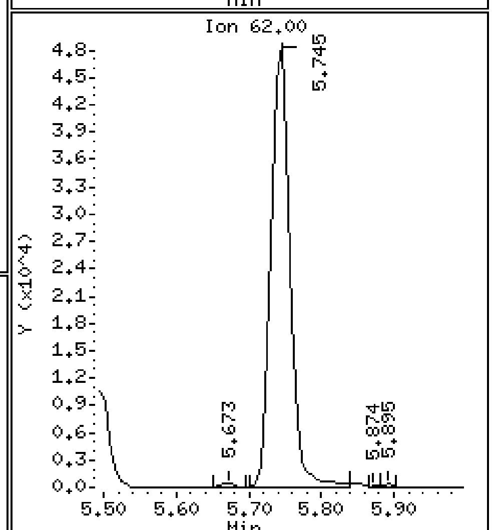


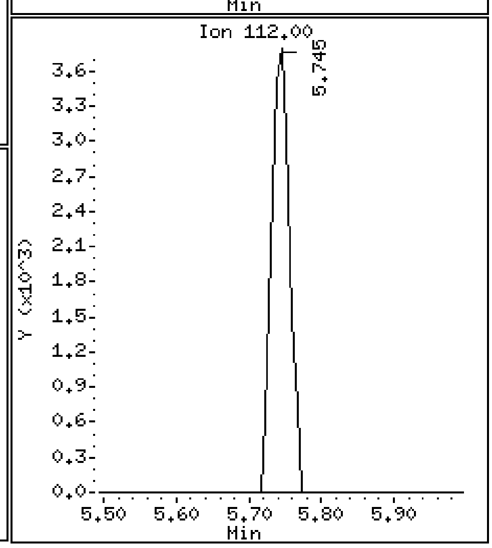












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

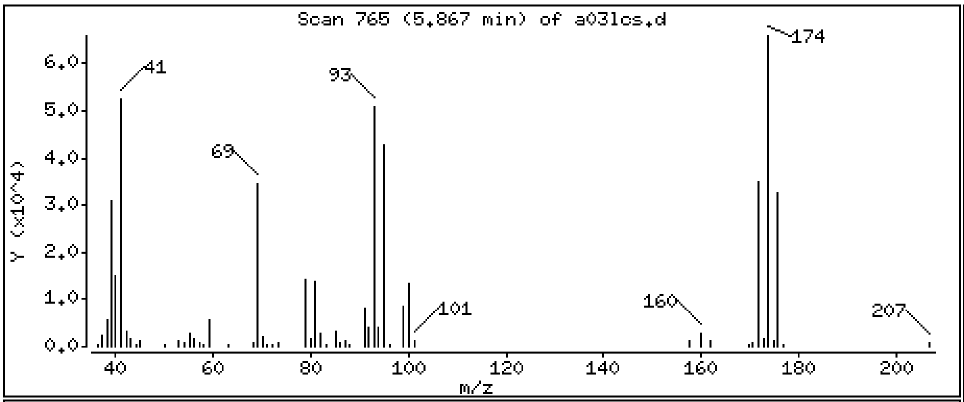
Column phase: DB-624

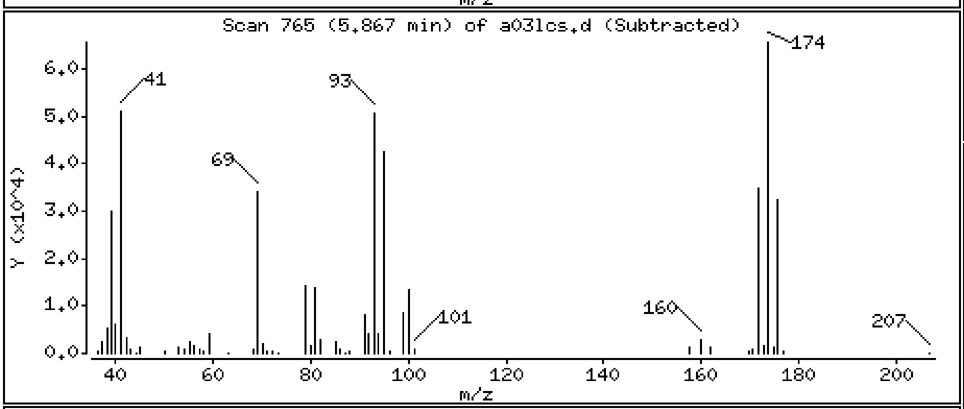
Column diameter: 0.18

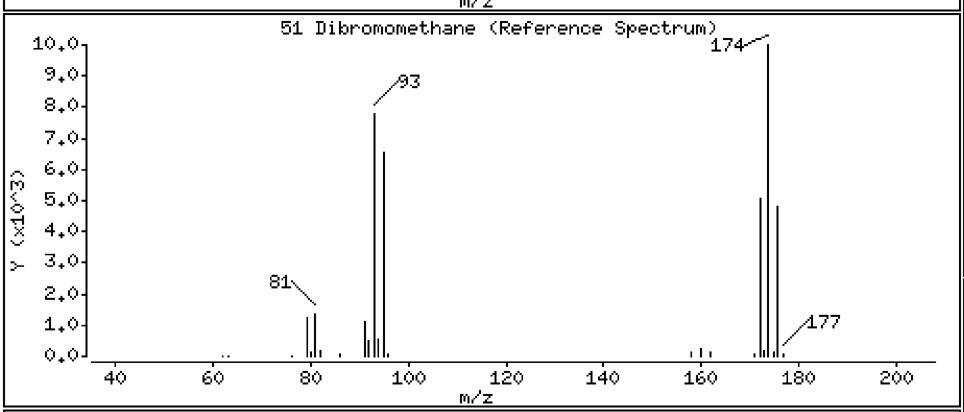
51 Dibromomethane

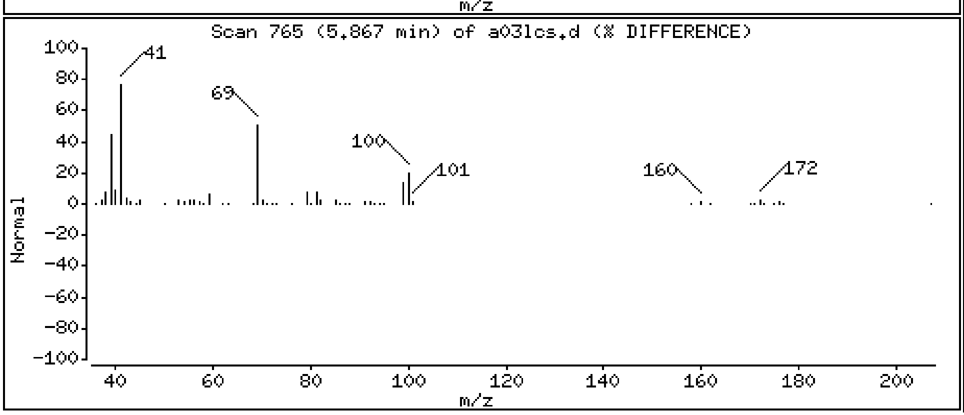
Concentration: 47.7 ppb

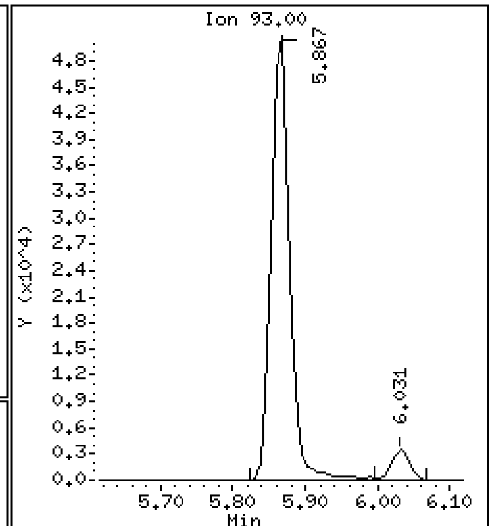
Review Code:

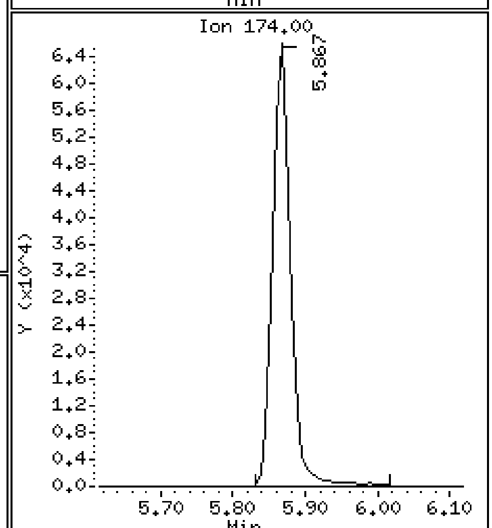


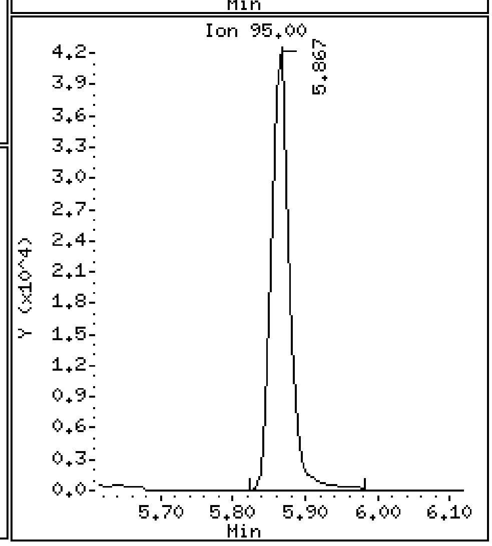












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

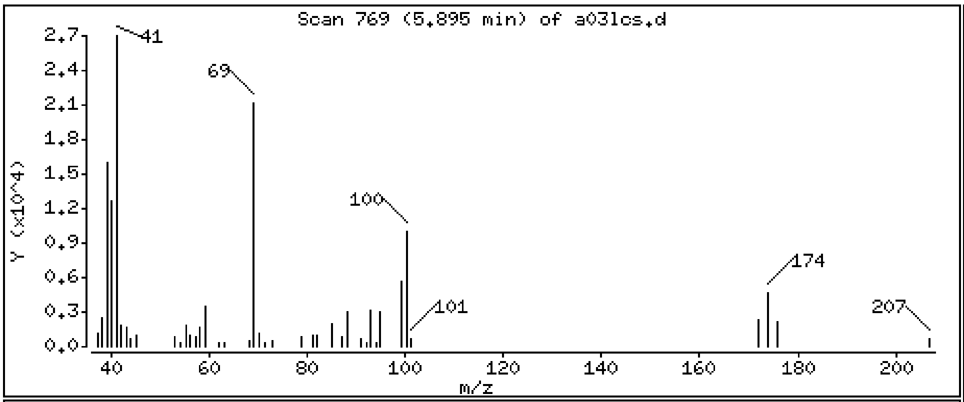
Column phase: DB-624

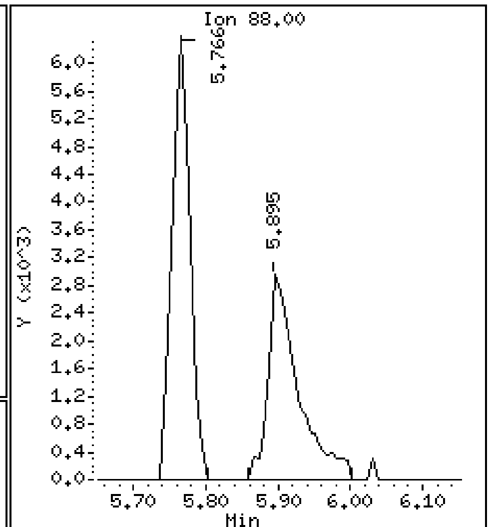
Column diameter: 0.18

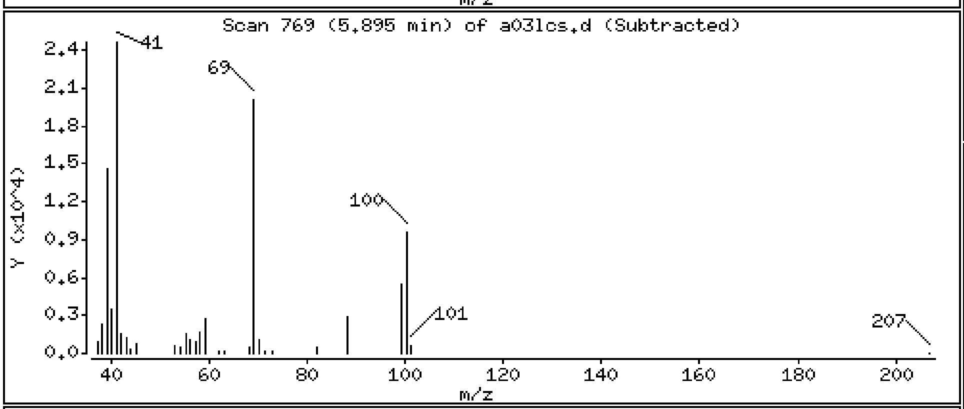
52 1,4-Dioxane

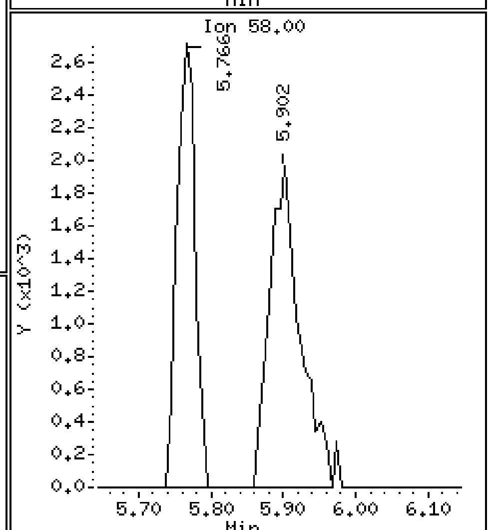
Concentration: 451 ppb

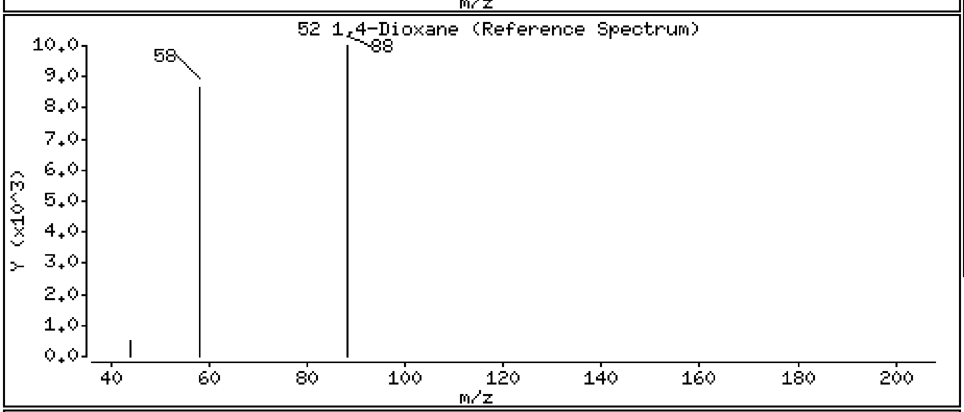
Review Code:

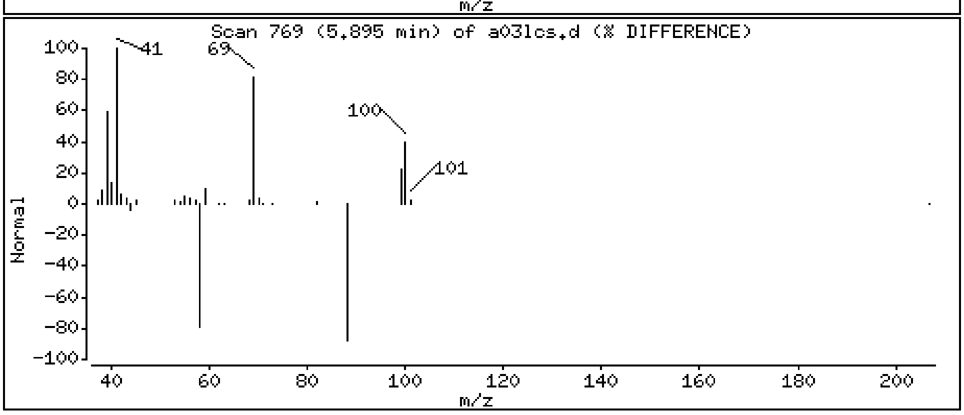












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Date : 23-JAN-2023 11:36

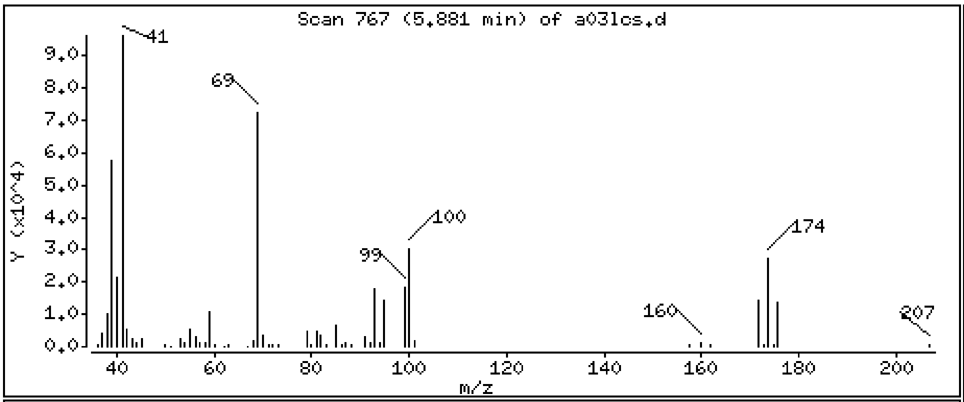
Client ID: Instrument: 50mvda.i

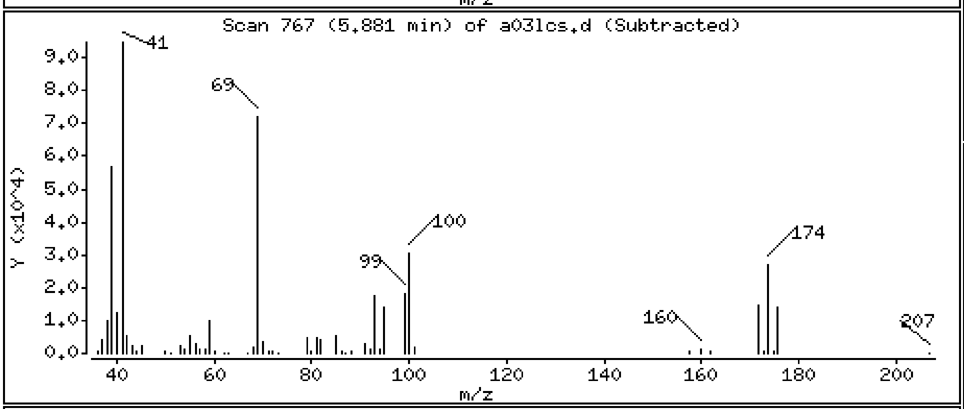
Sample Info: 3287446,336256:5

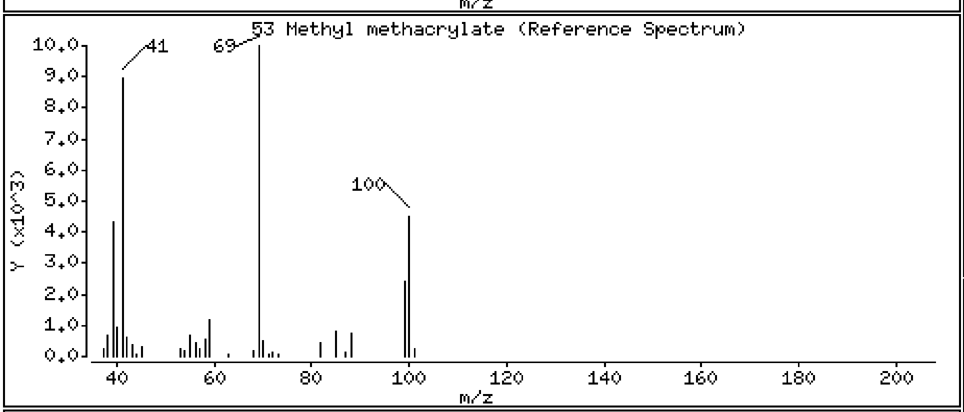
Purge Volume: 5.0 Operator: tkg

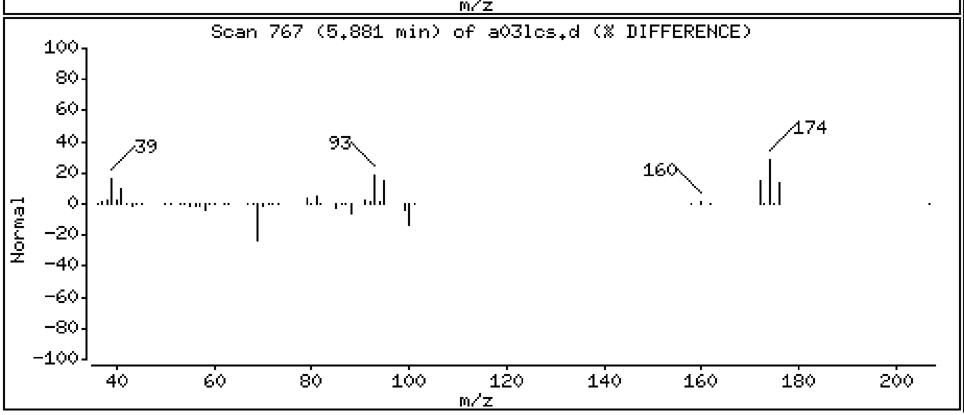
Column phase: DB-624 Column diameter: 0.18

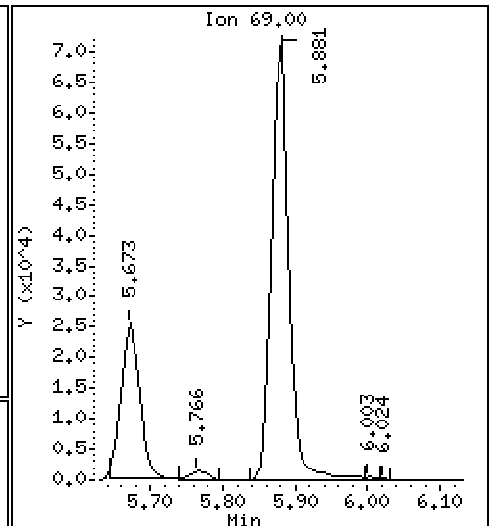
53 Methyl methacrylate Concentration: 41.6 ppb Review Code:

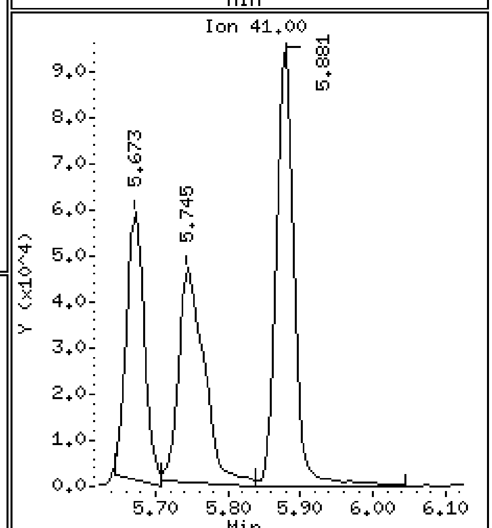


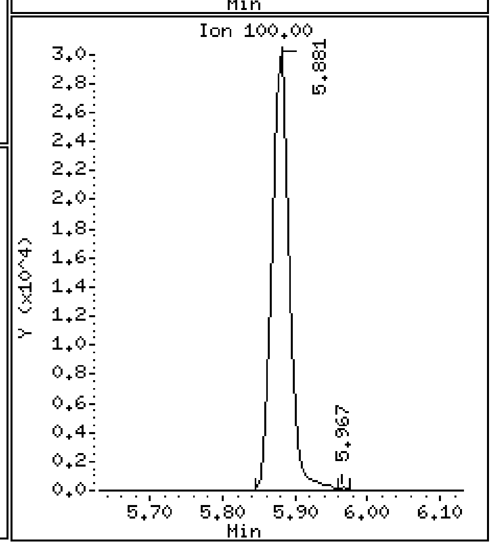












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

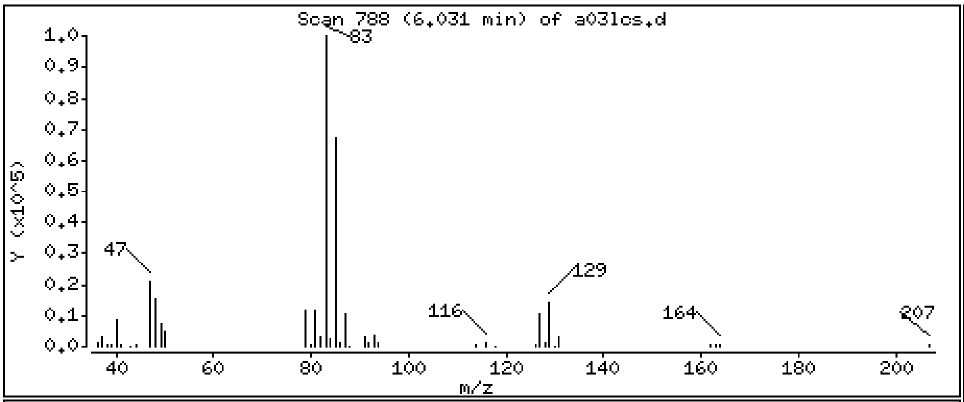
Column phase: DB-624

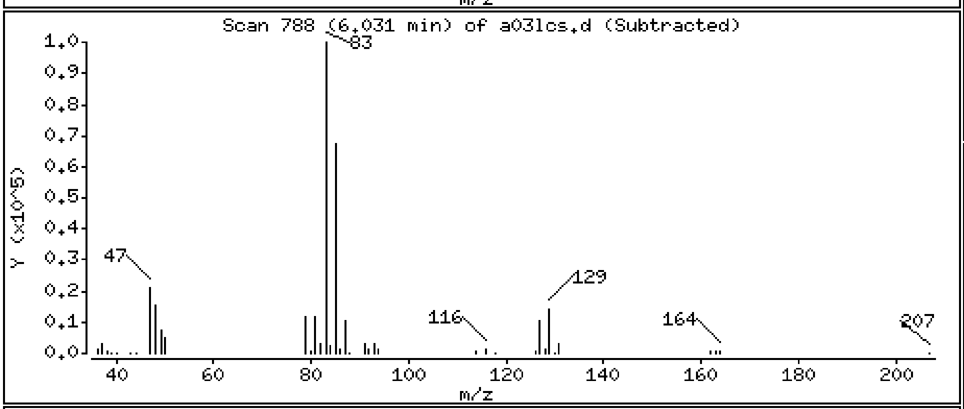
Column diameter: 0.18

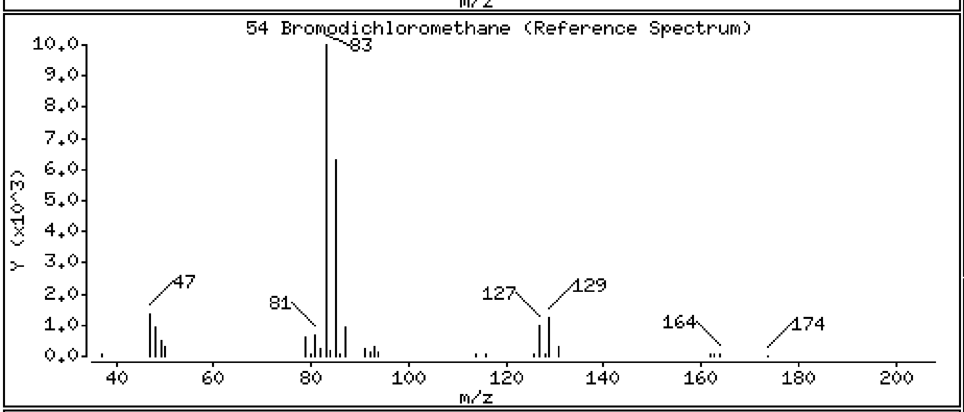
54 Bromodichloromethane

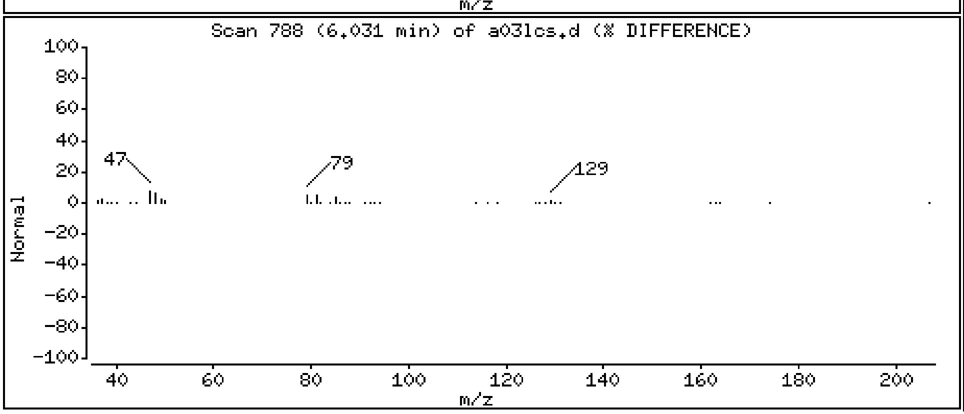
Concentration: 47.3 ppb

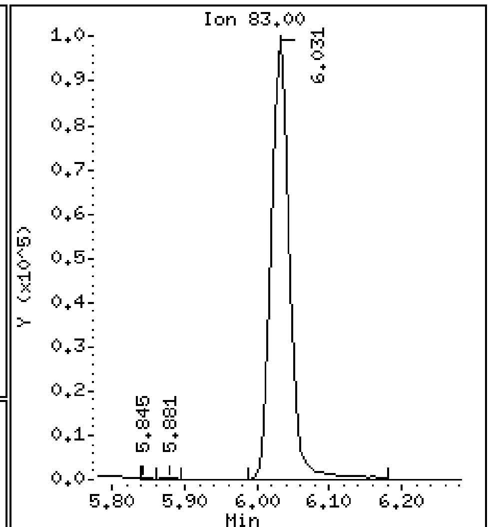
Review Code:

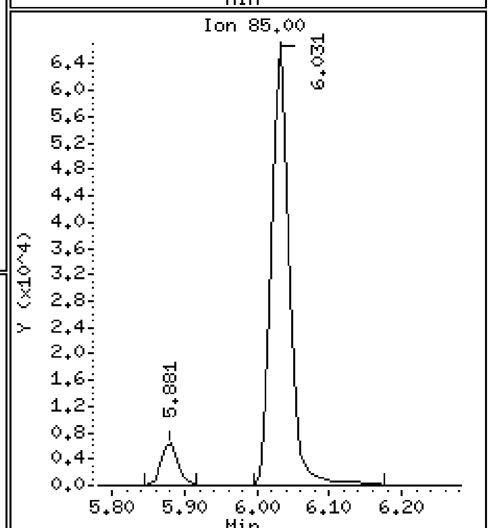


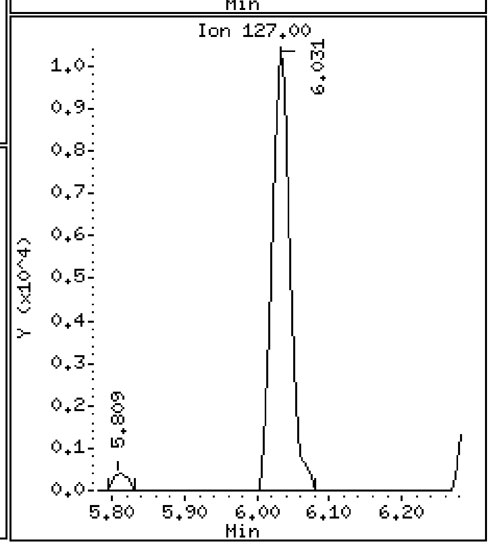












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Date : 23-JAN-2023 11:36

Client ID:

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvda.i

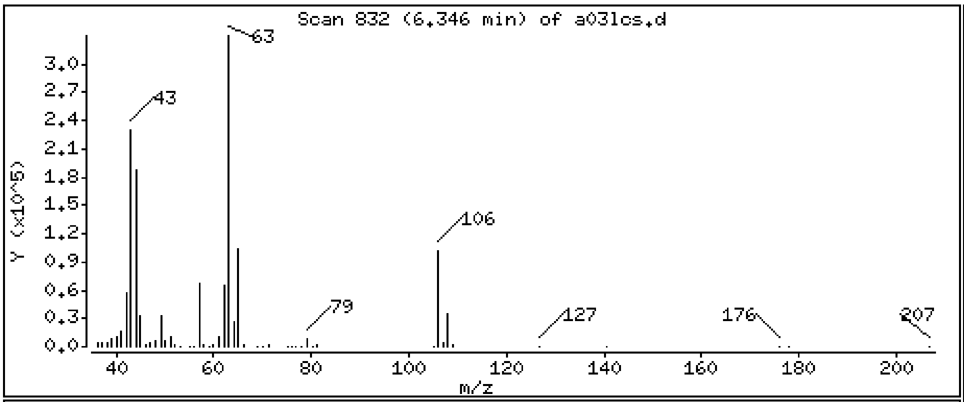
Operator: tkg

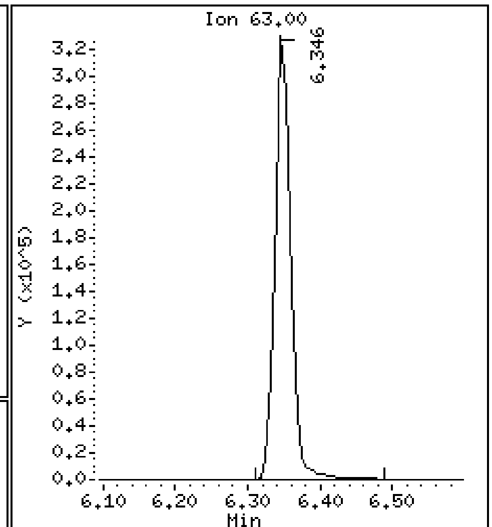
Column diameter: 0.18

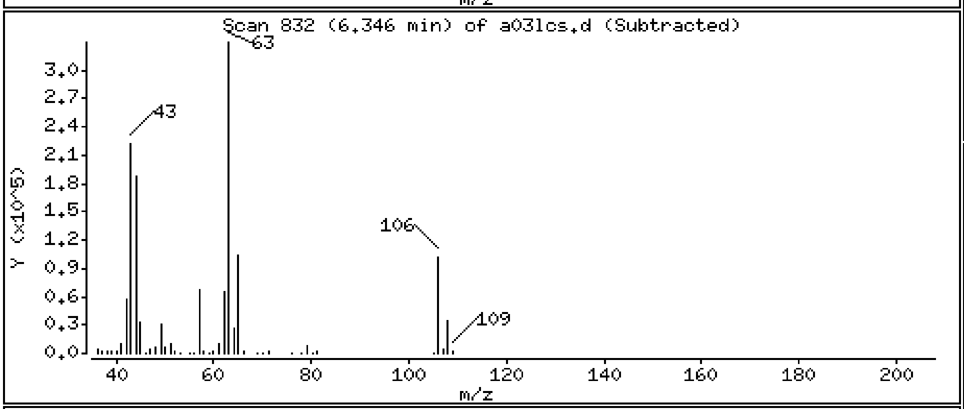
55 2-Chloroethyl vinyl ether

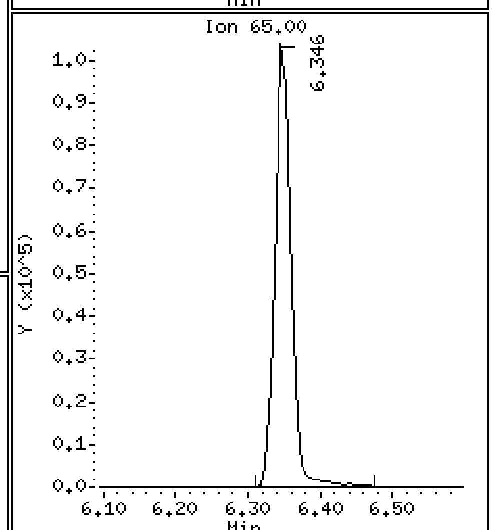
Concentration: 206 ppb

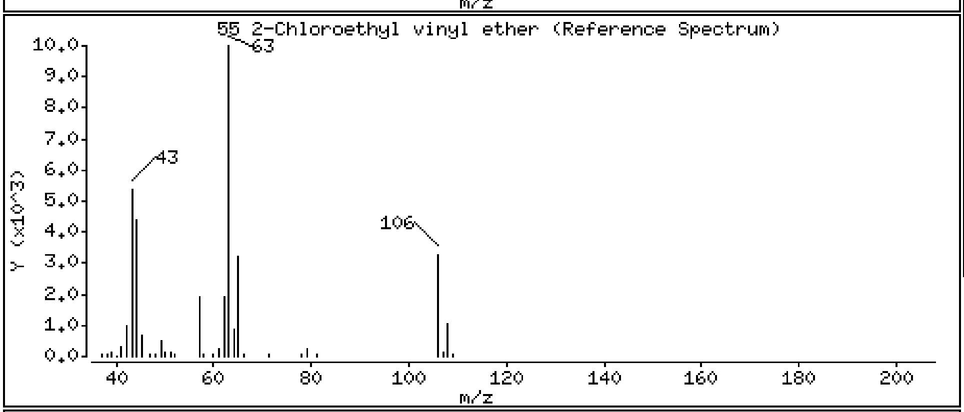
Review Code:

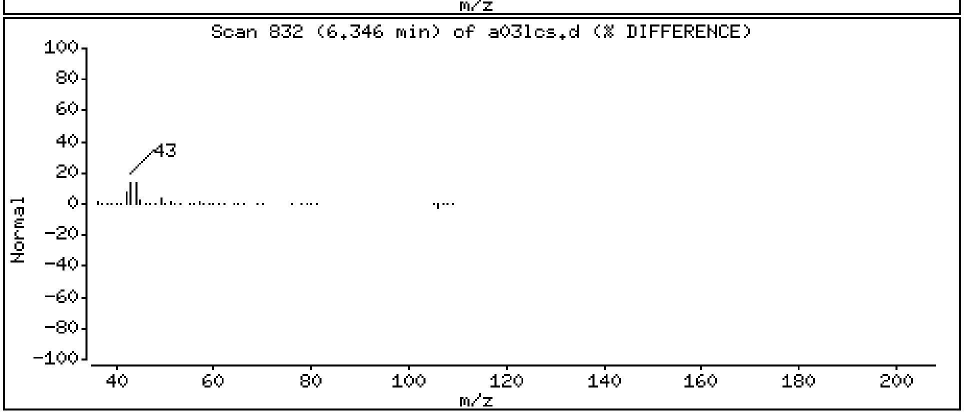












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

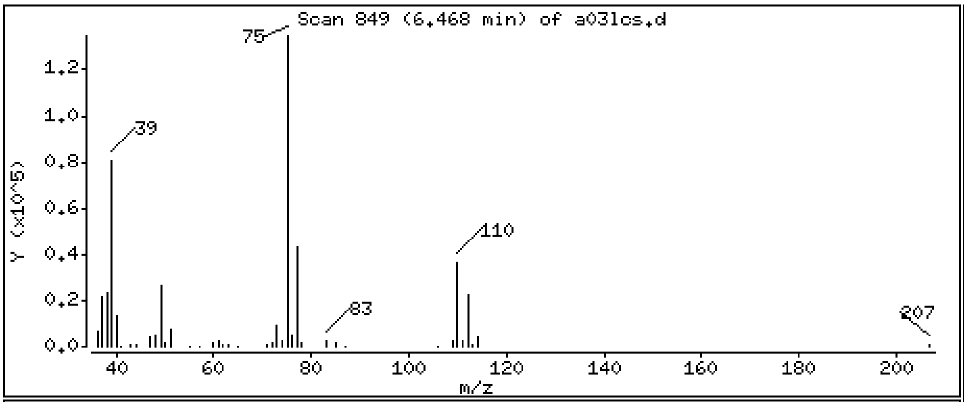
Column phase: DB-624

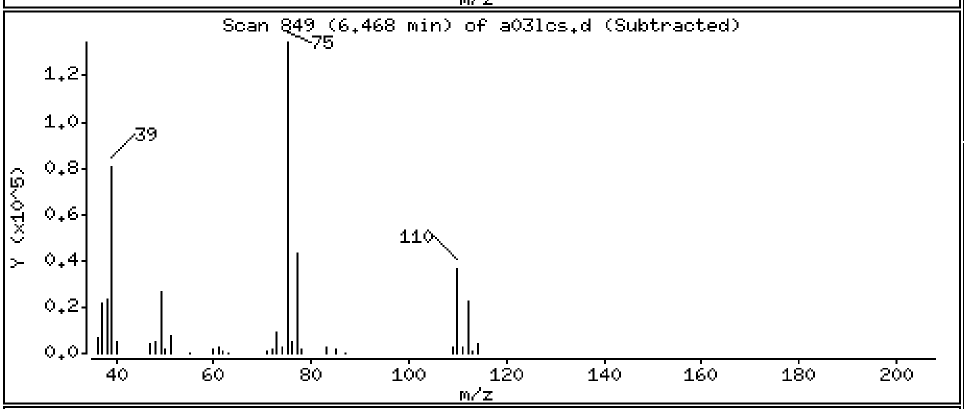
Column diameter: 0.18

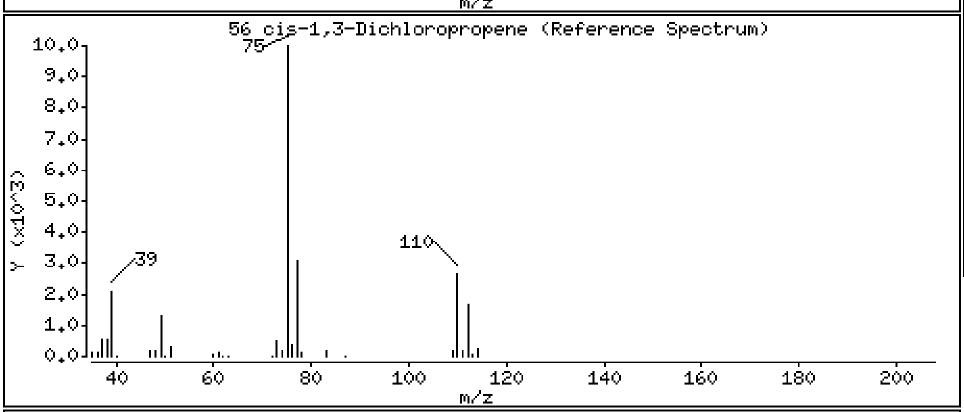
56 cis-1,3-Dichloropropene

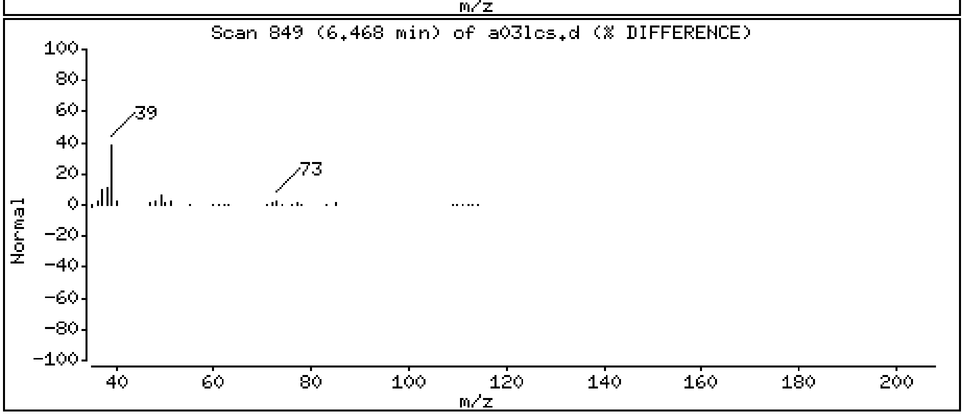
Concentration: 42.3 ppb

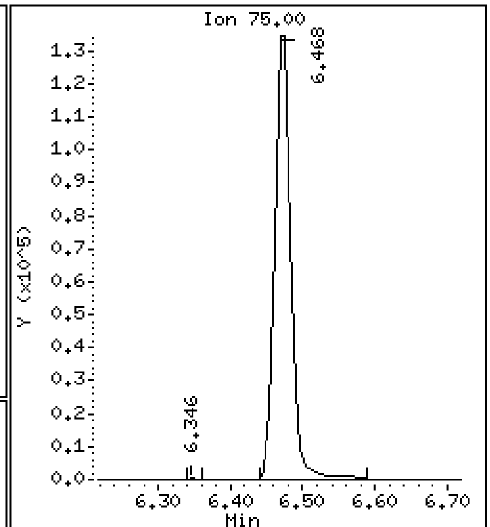
Review Code:

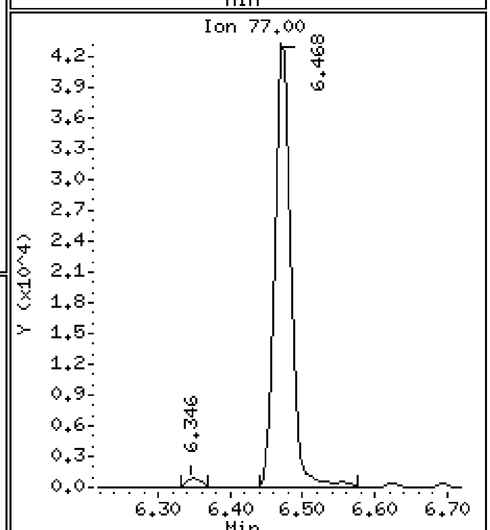












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Date : 23-JAN-2023 11:36

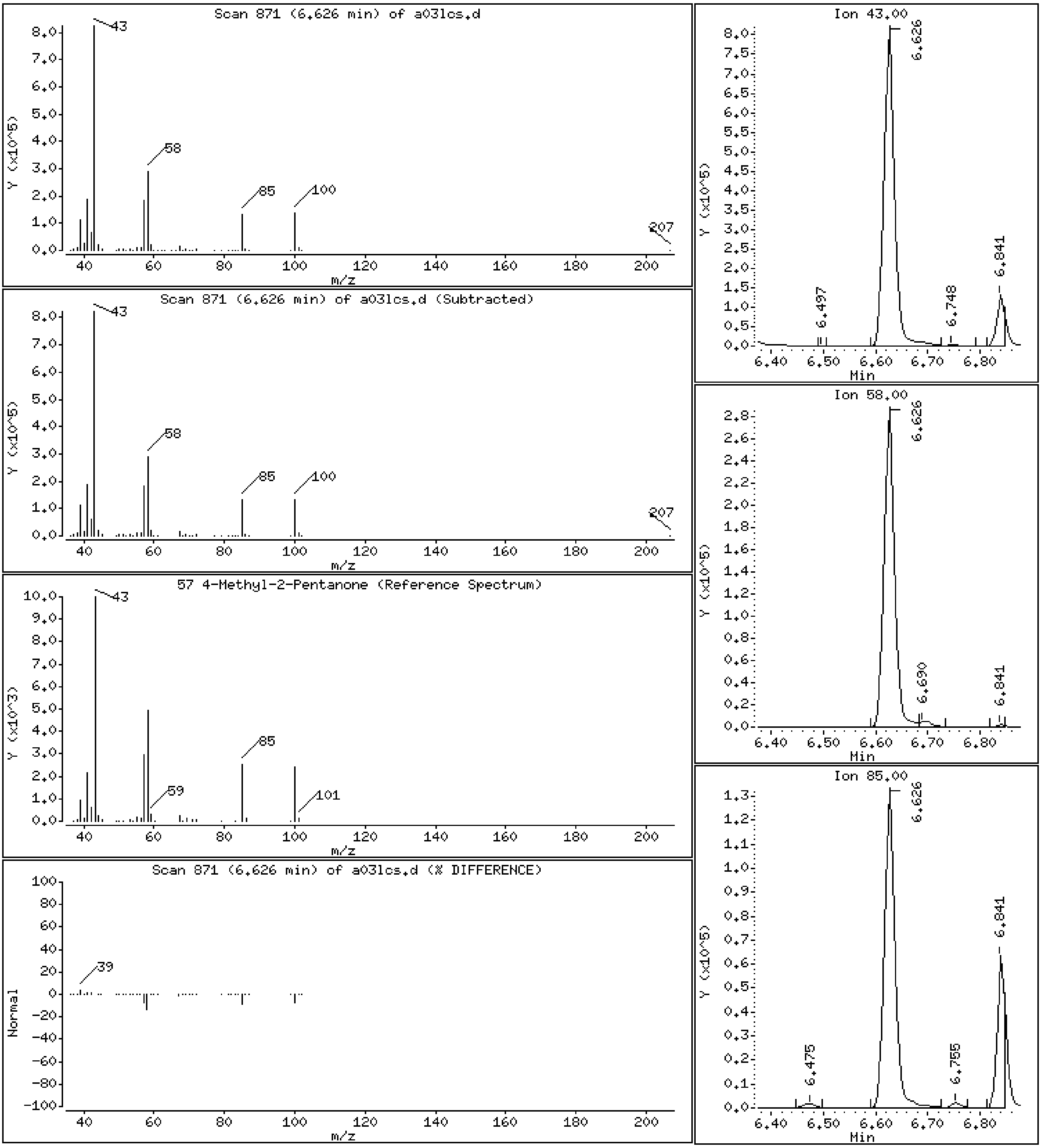
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

57 4-Methyl-2-Pentanone Concentration: 199 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

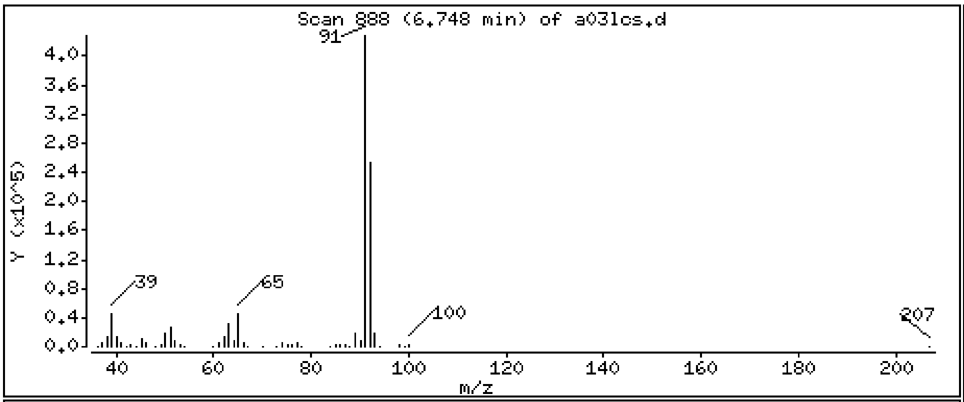
Column phase: DB-624

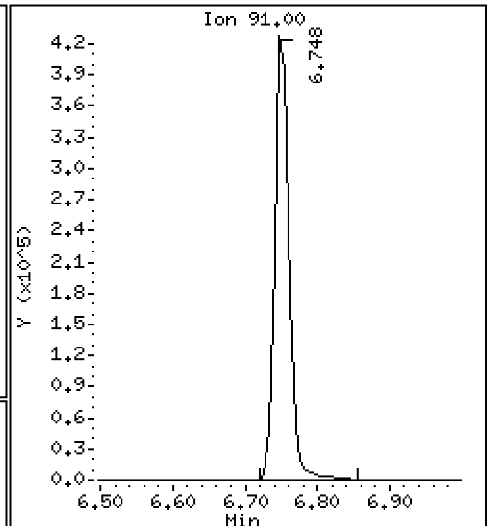
Column diameter: 0.18

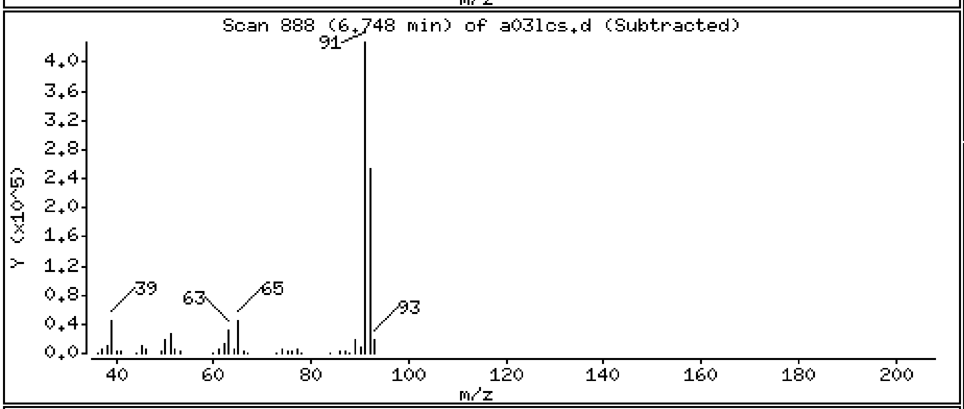
59 Toluene

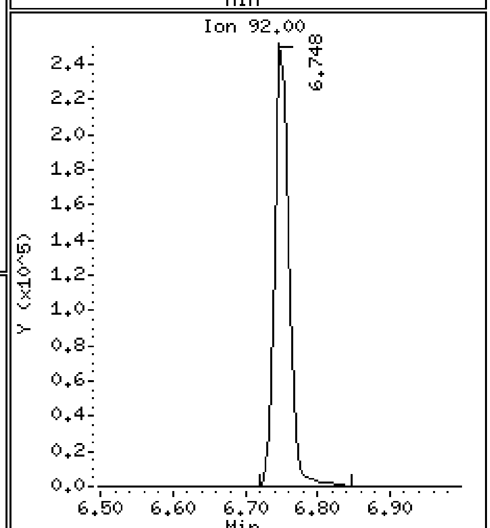
Concentration: 40.2 ppb

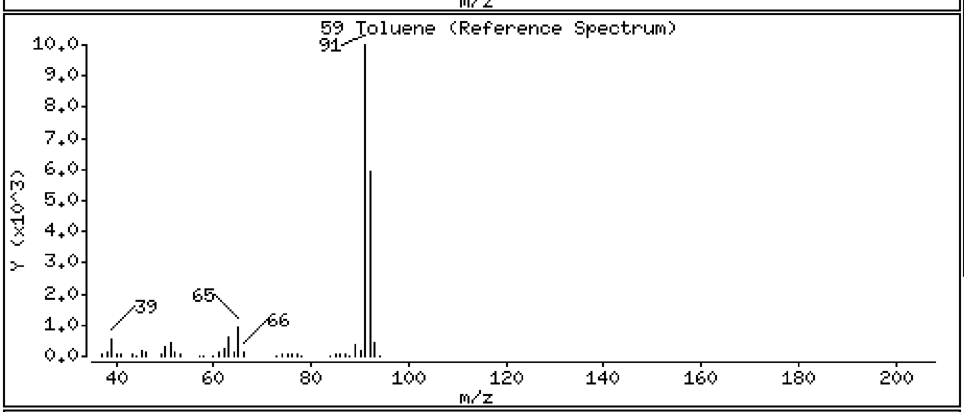
Review Code:

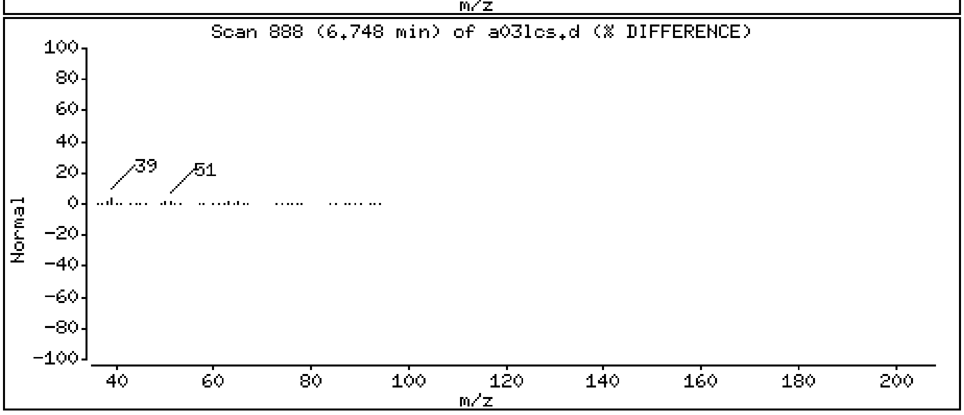












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Date : 23-JAN-2023 11:36

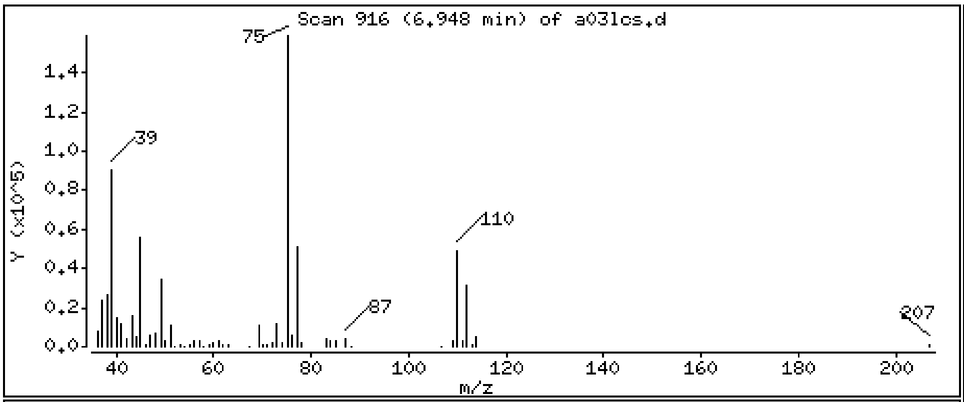
Client ID: Instrument: 50mvda.i

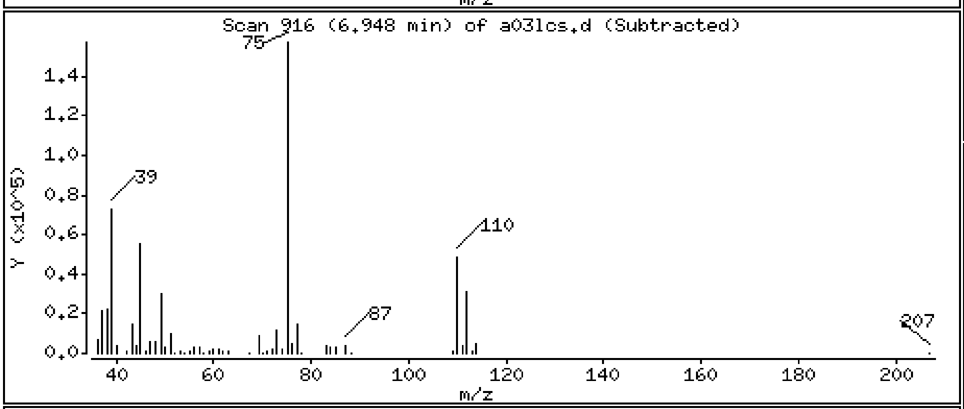
Sample Info: 3287446,336256:5

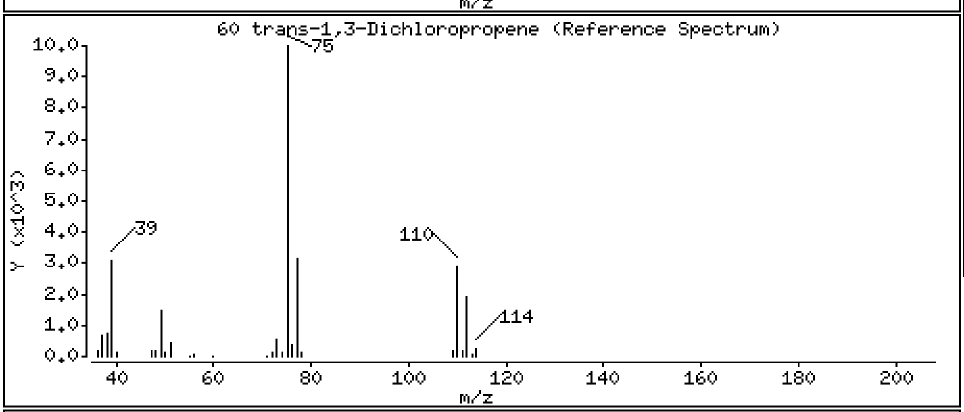
Purge Volume: 5.0 Operator: tkg

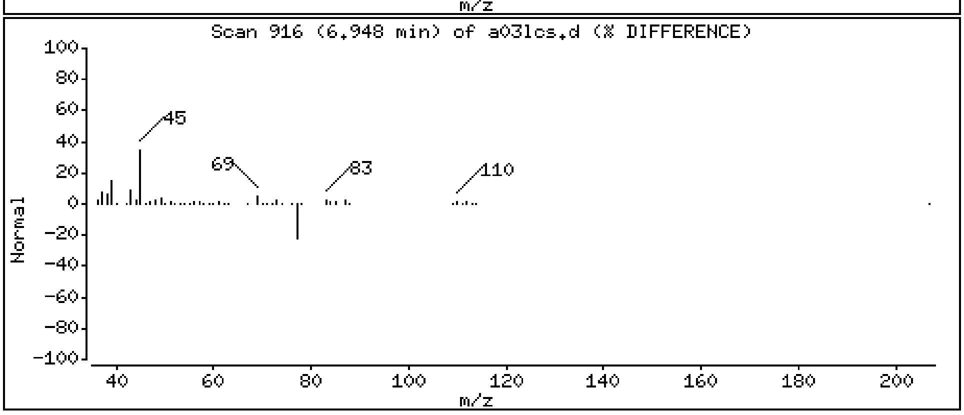
Column phase: DB-624 Column diameter: 0.18

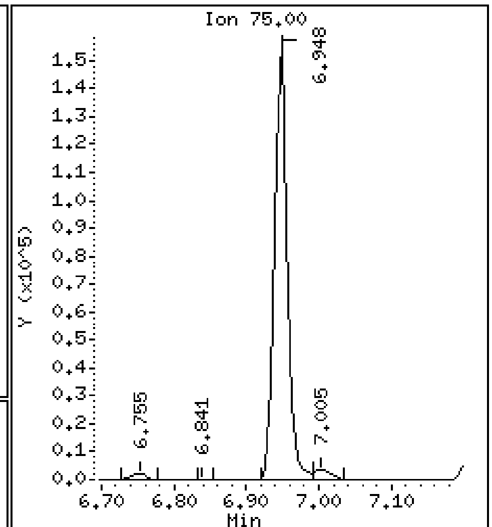
60 trans-1,3-Dichloropropene Concentration: 40.9 ppb Review Code:

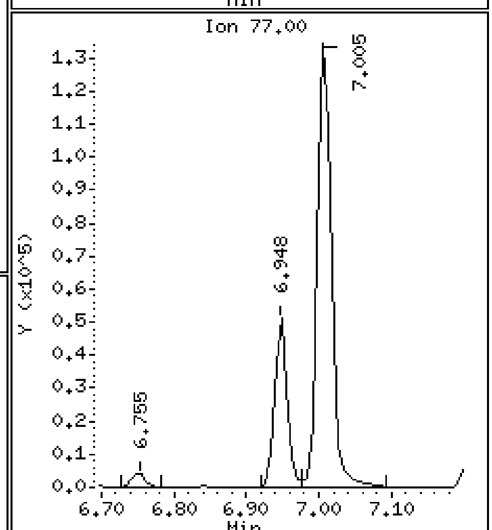












Date : 23-JAN-2023 11:36

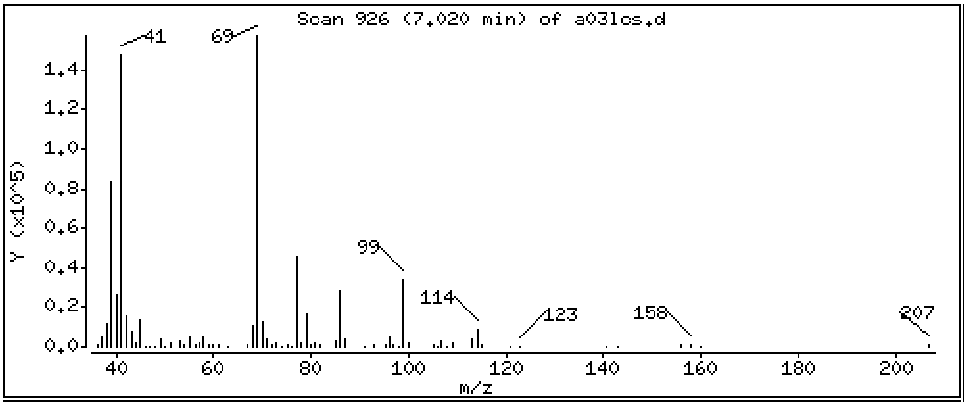
Client ID: Instrument: 50mvda.i

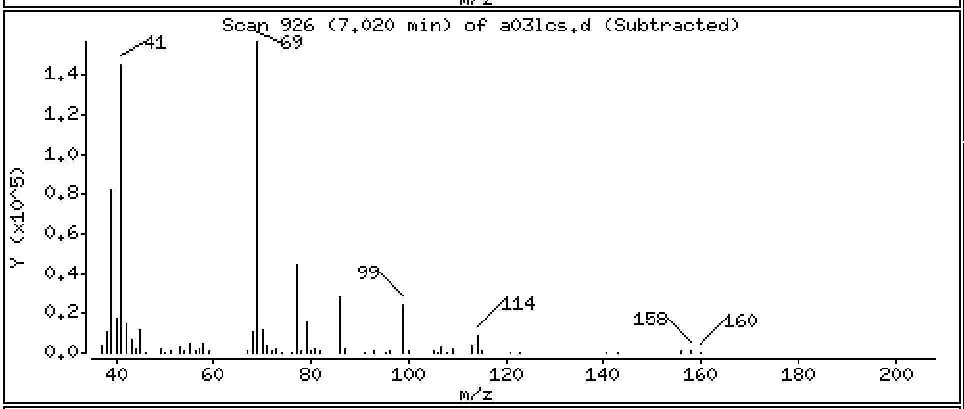
Sample Info: 3287446,336256:5

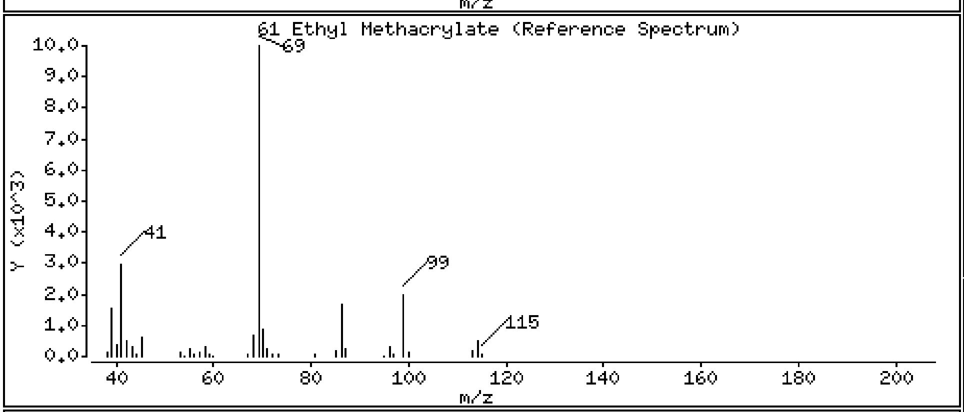
Purge Volume: 5.0 Operator: tkg

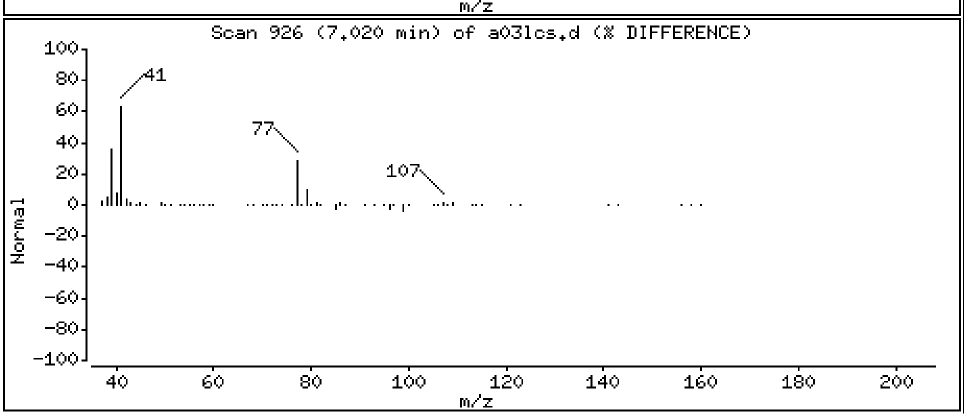
Column phase: DB-624 Column diameter: 0.18

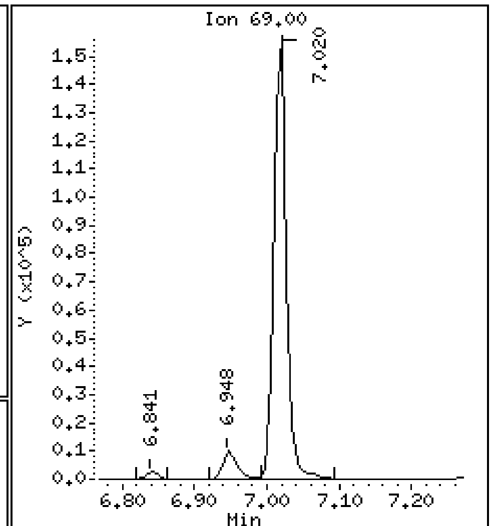
61 Ethyl Methacrylate Concentration: 39.2 ppb Review Code:

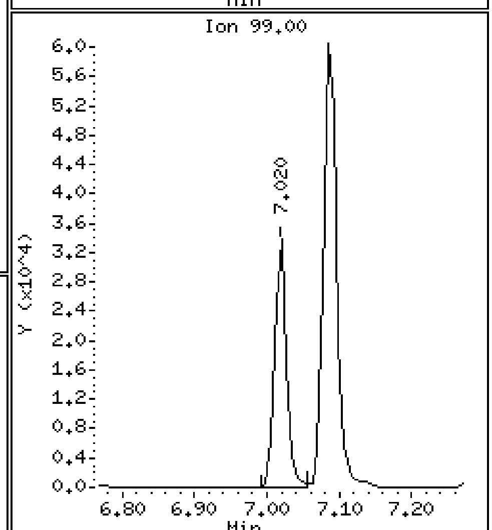


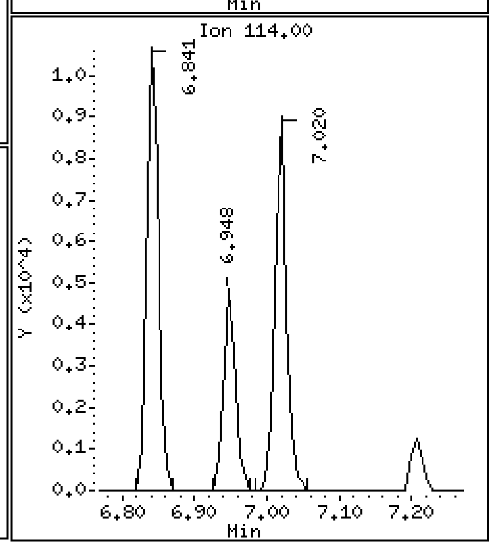












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Date : 23-JAN-2023 11:36

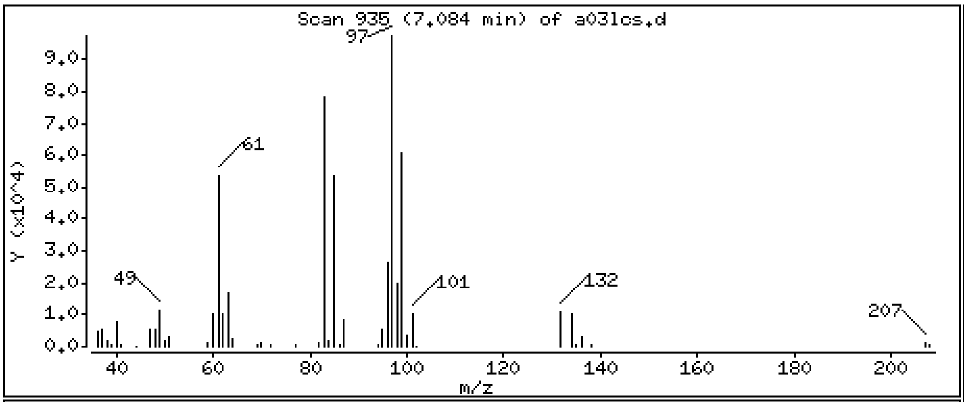
Client ID: Instrument: 50mvda.i

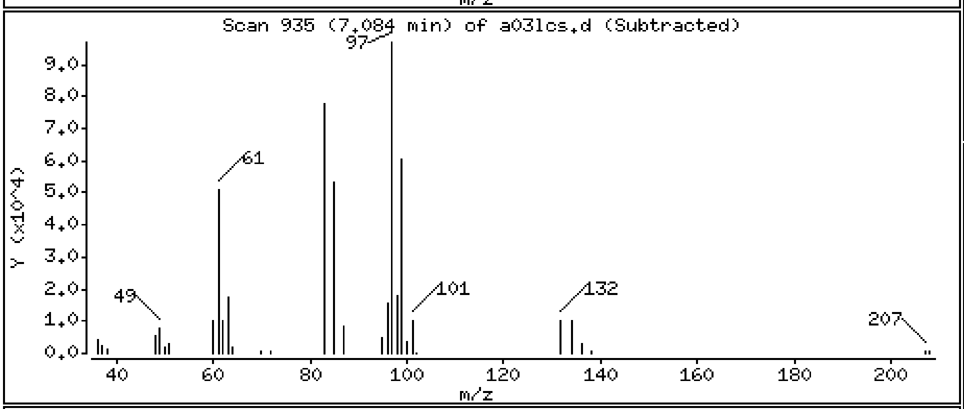
Sample Info: 3287446,336256:5

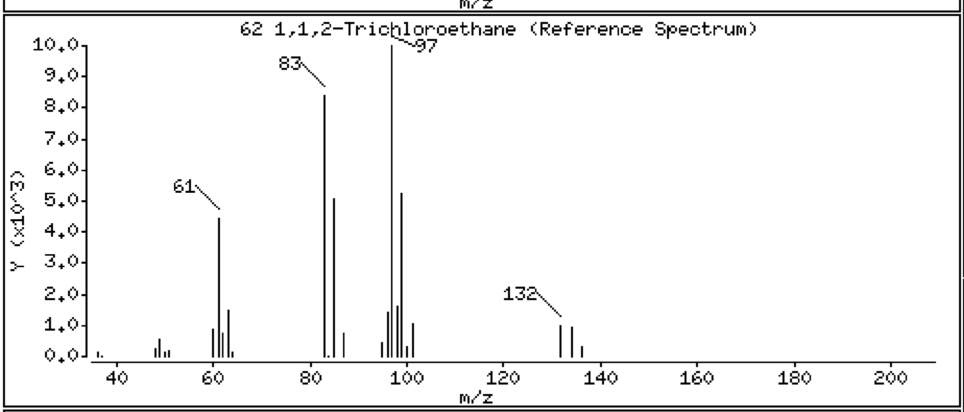
Purge Volume: 5.0 Operator: tkg

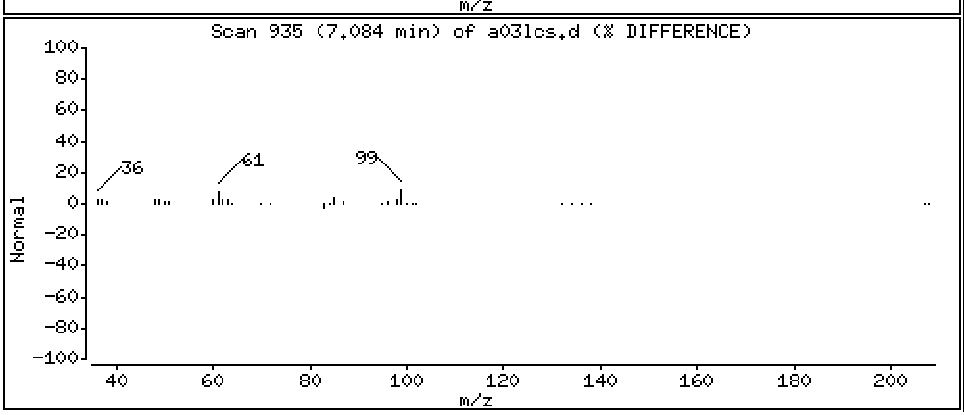
Column phase: DB-624 Column diameter: 0.18

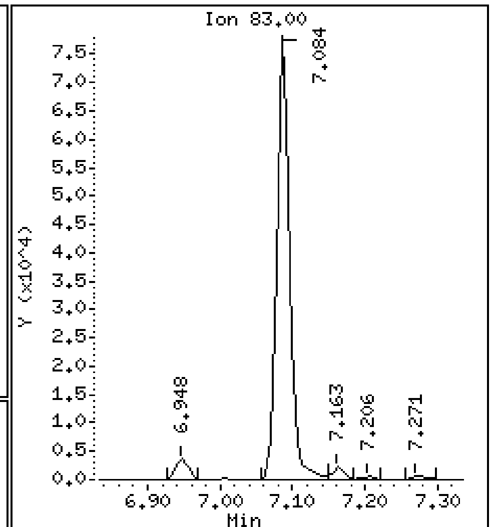
62 1,1,2-Trichloroethane Concentration: 41.0 ppb Review Code:

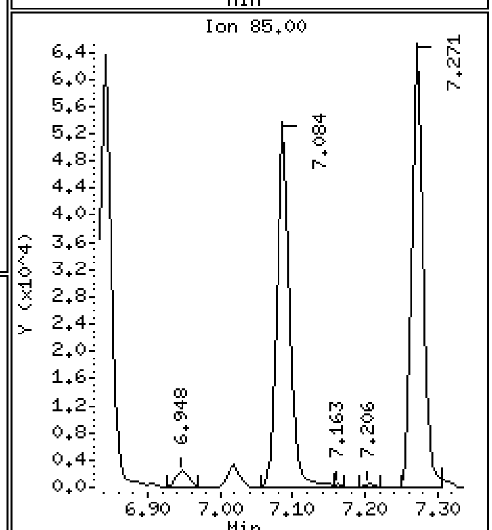


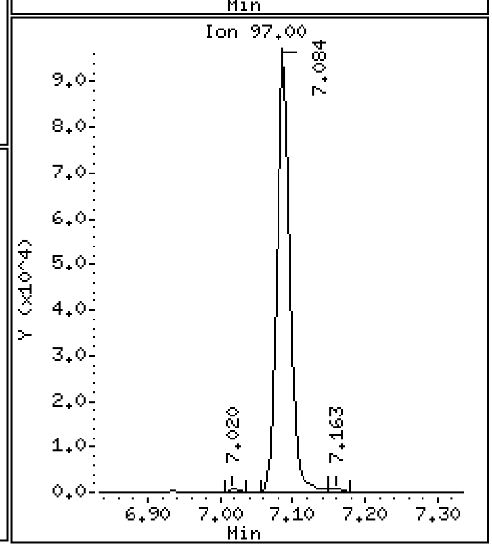












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

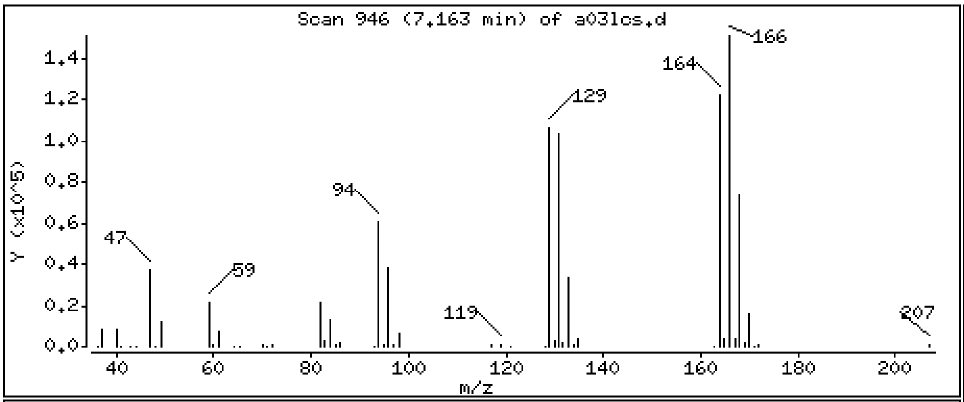
Column phase: DB-624

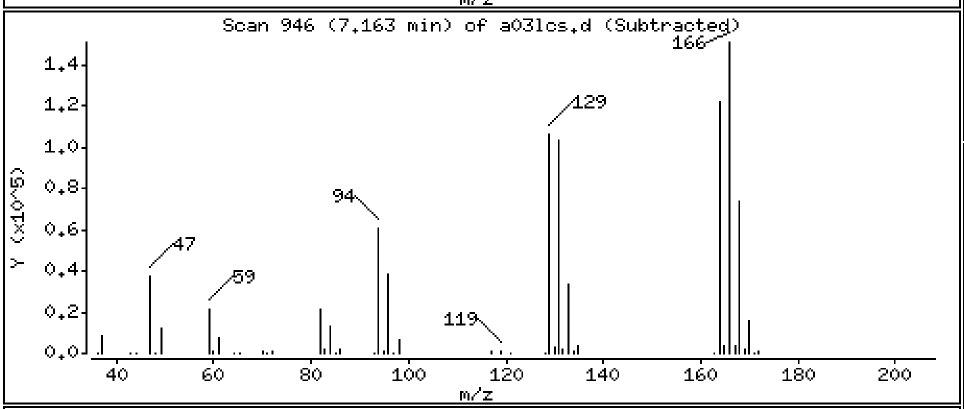
Column diameter: 0.18

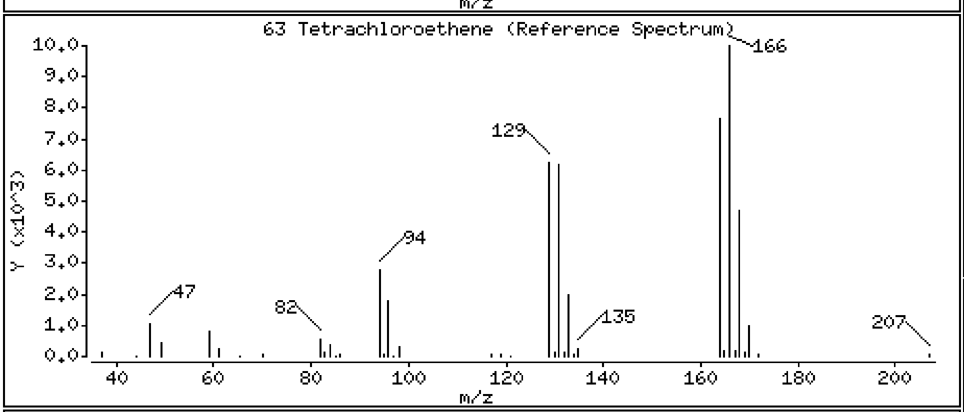
63 Tetrachloroethene

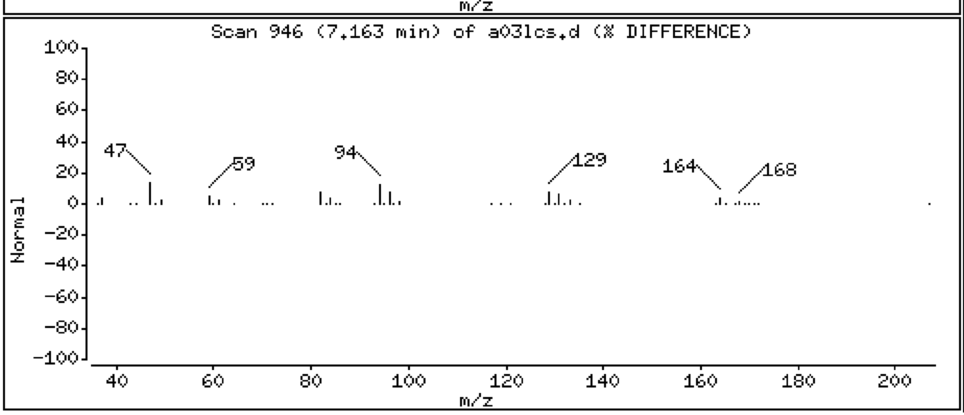
Concentration: 50.4 ppb

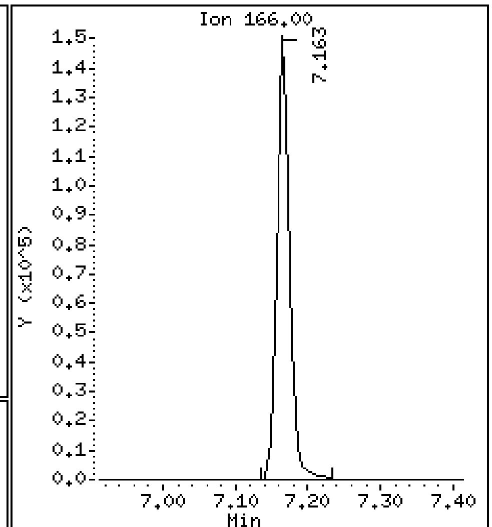
Review Code:

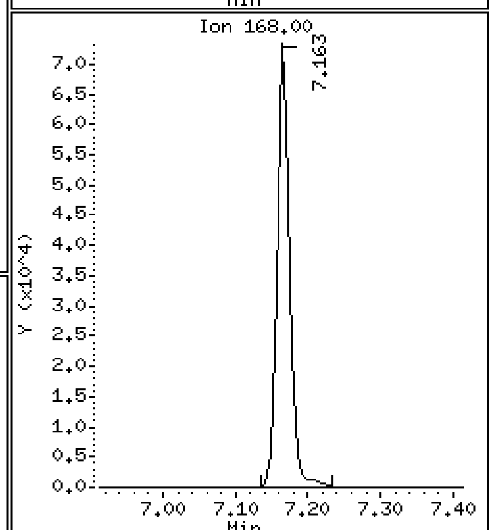


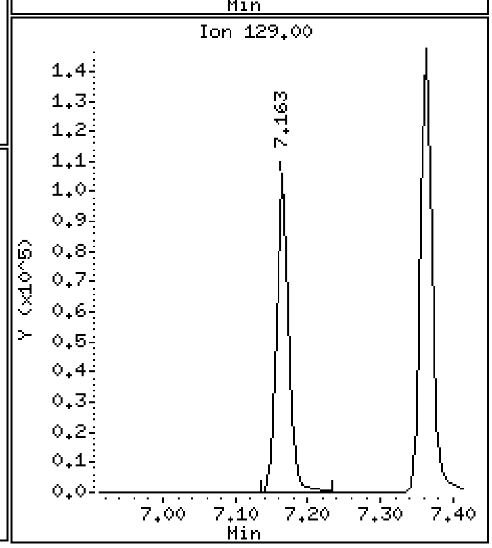












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Date : 23-JAN-2023 11:36

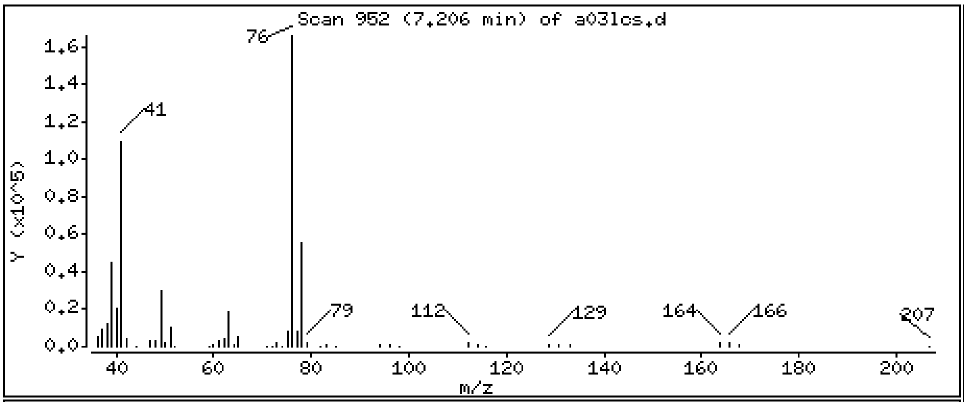
Client ID: Instrument: 50mvda.i

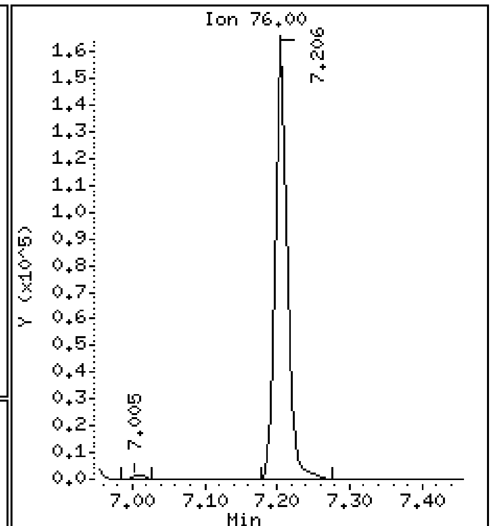
Sample Info: 3287446,336256:5

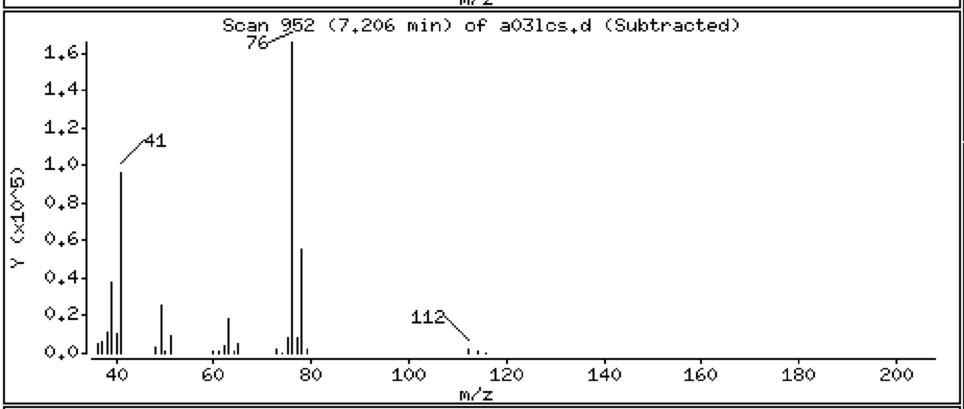
Purge Volume: 5.0 Operator: tkg

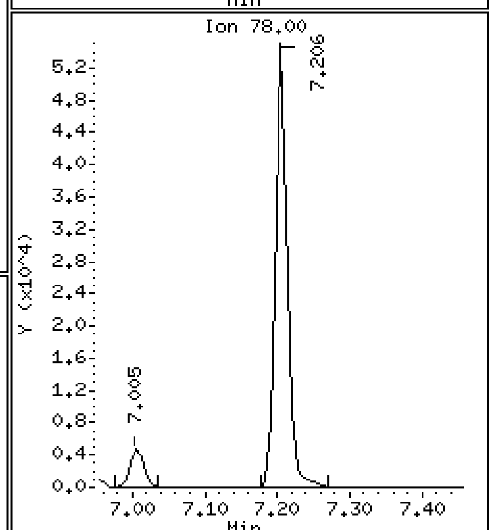
Column phase: DB-624 Column diameter: 0.18

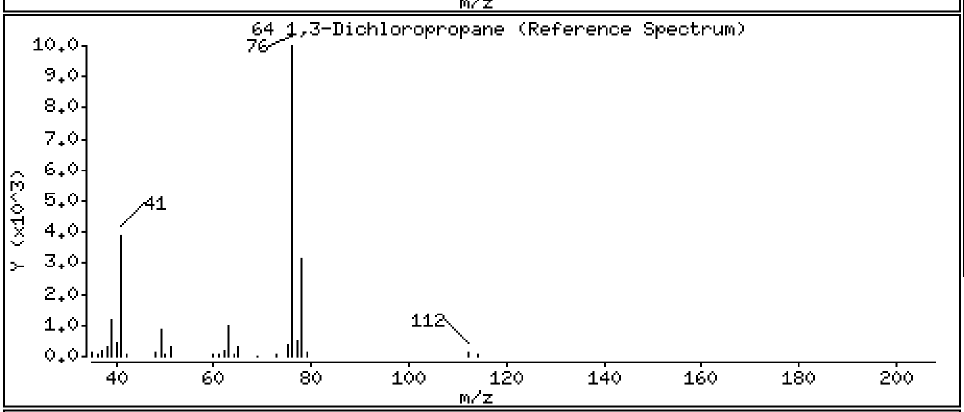
64 1,3-Dichloropropane Concentration: 40.8 ppb Review Code:

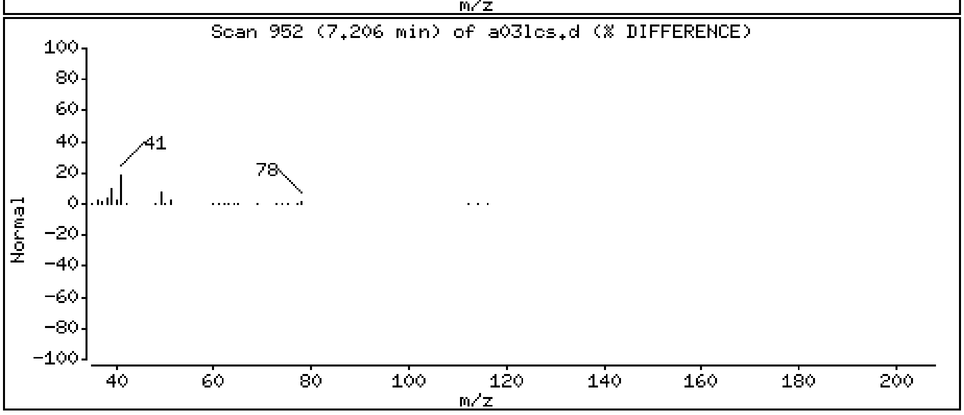












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

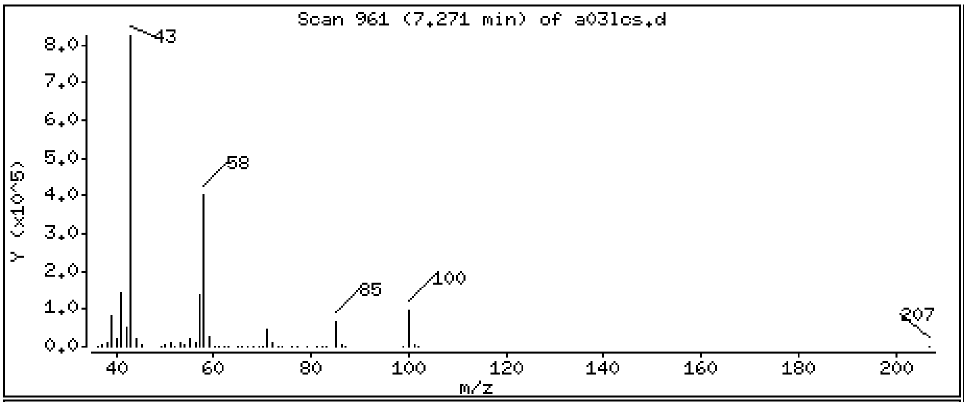
Column phase: DB-624

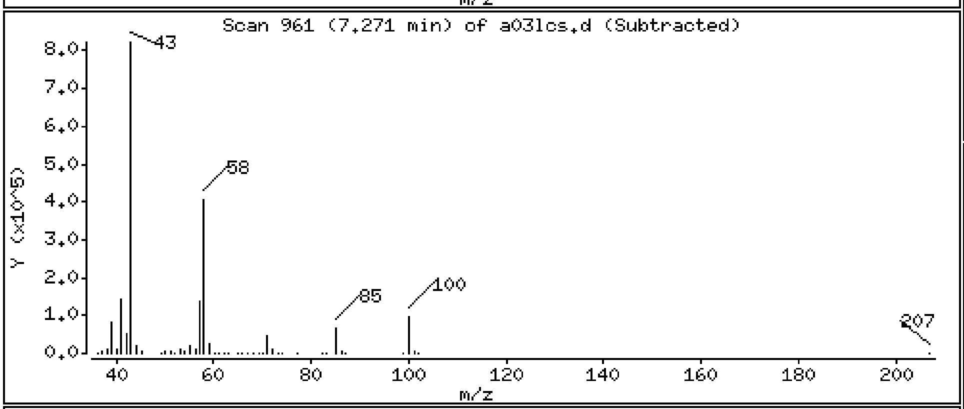
Column diameter: 0.18

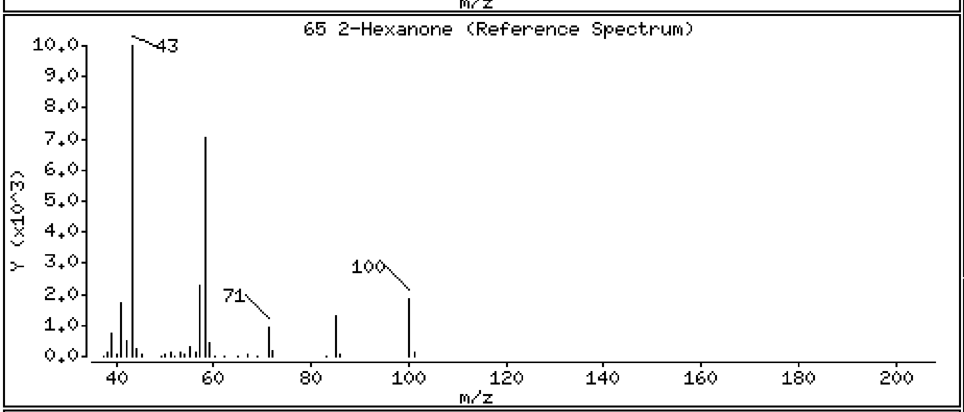
65 2-Hexanone

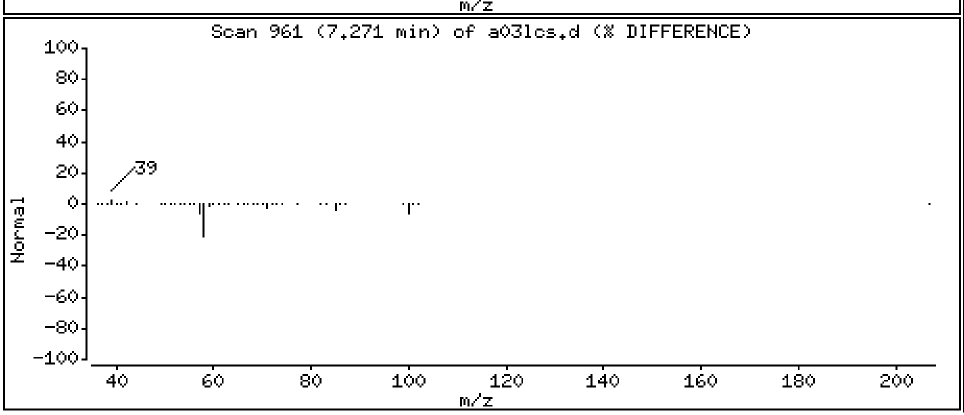
Concentration: 196 ppb

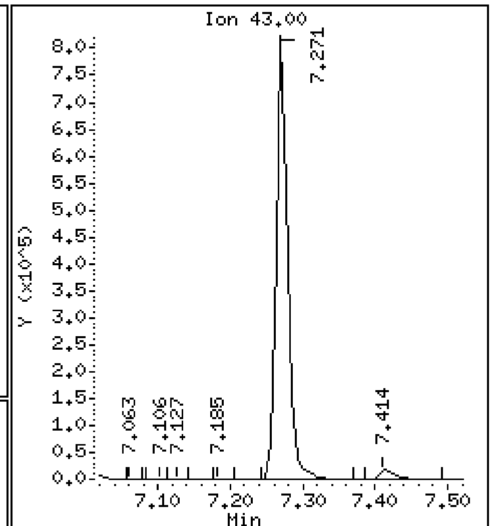
Review Code:

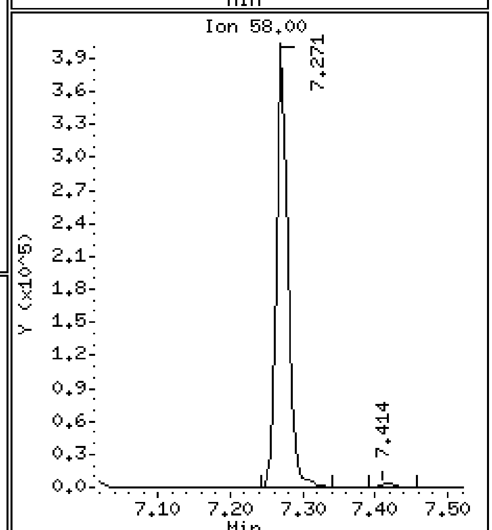


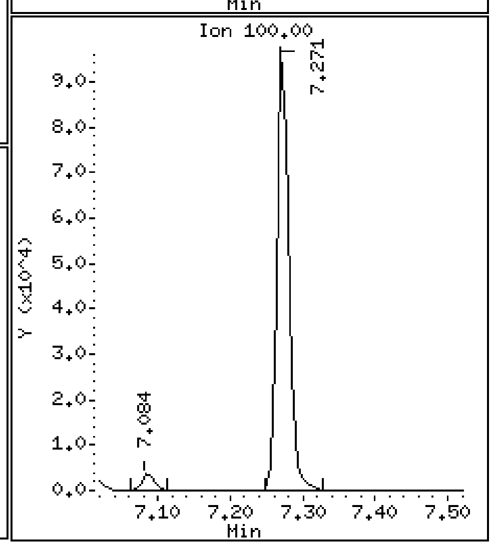












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

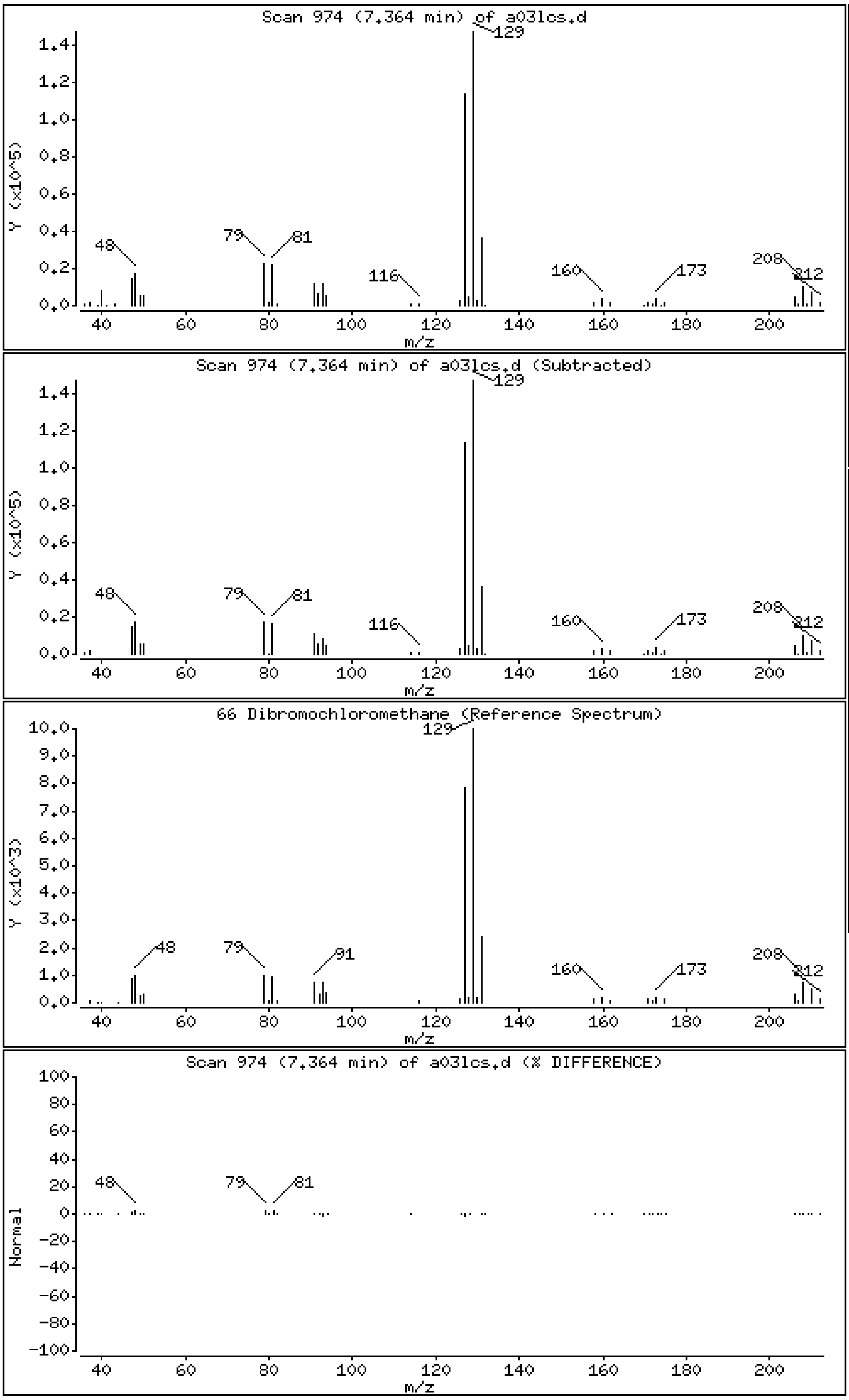
Column phase: DB-624

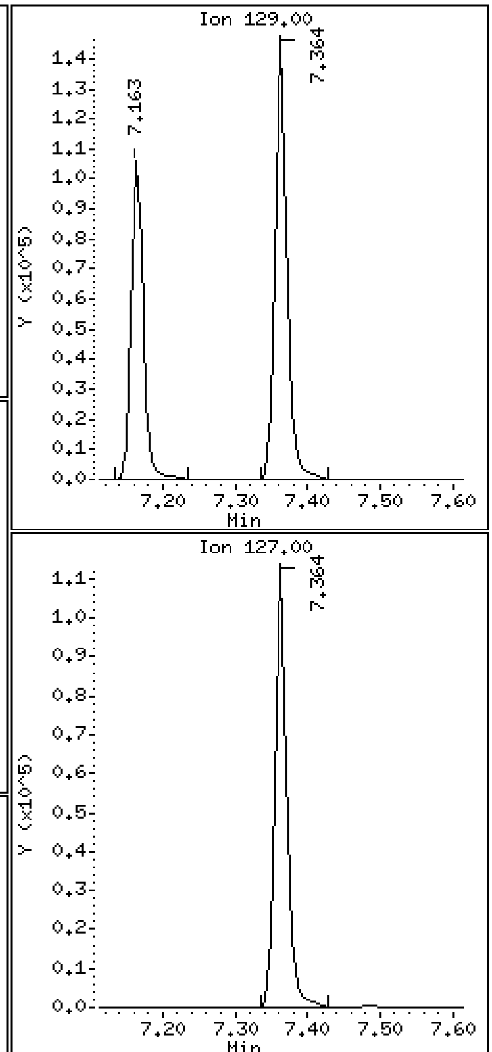
Column diameter: 0.18

66 Dibromochloromethane

Concentration: 49.6 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

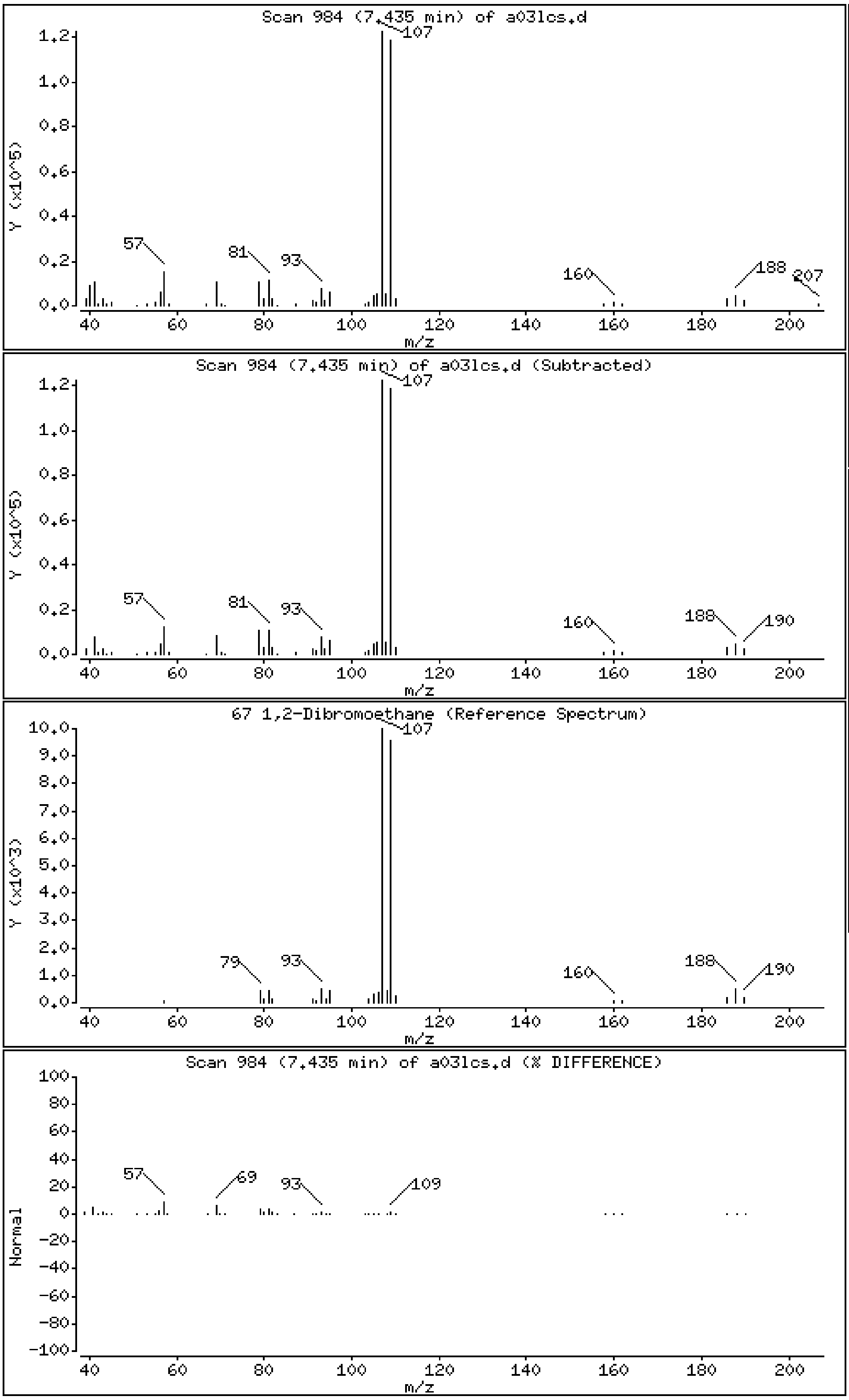
Column phase: DB-624

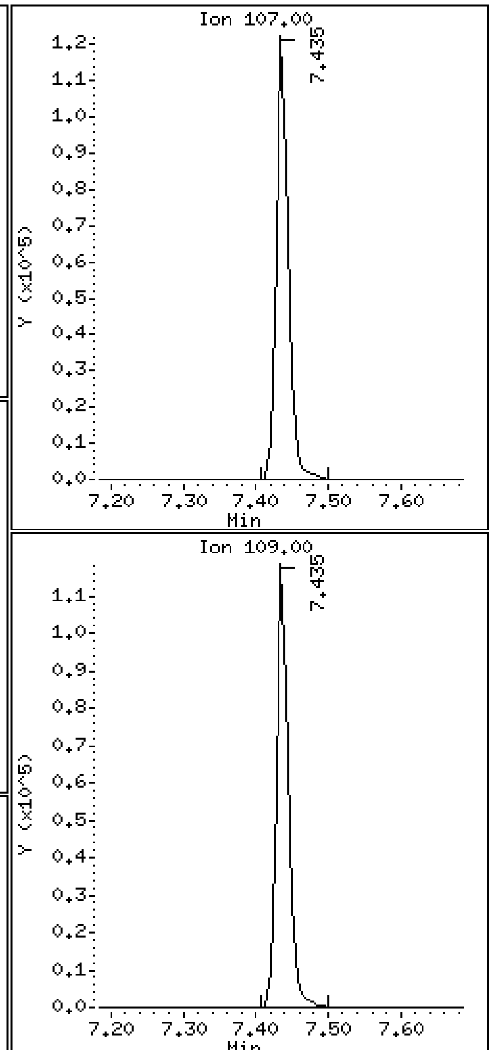
Column diameter: 0.18

67 1,2-Dibromoethane

Concentration: 44.9 ppb

Review Code:





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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

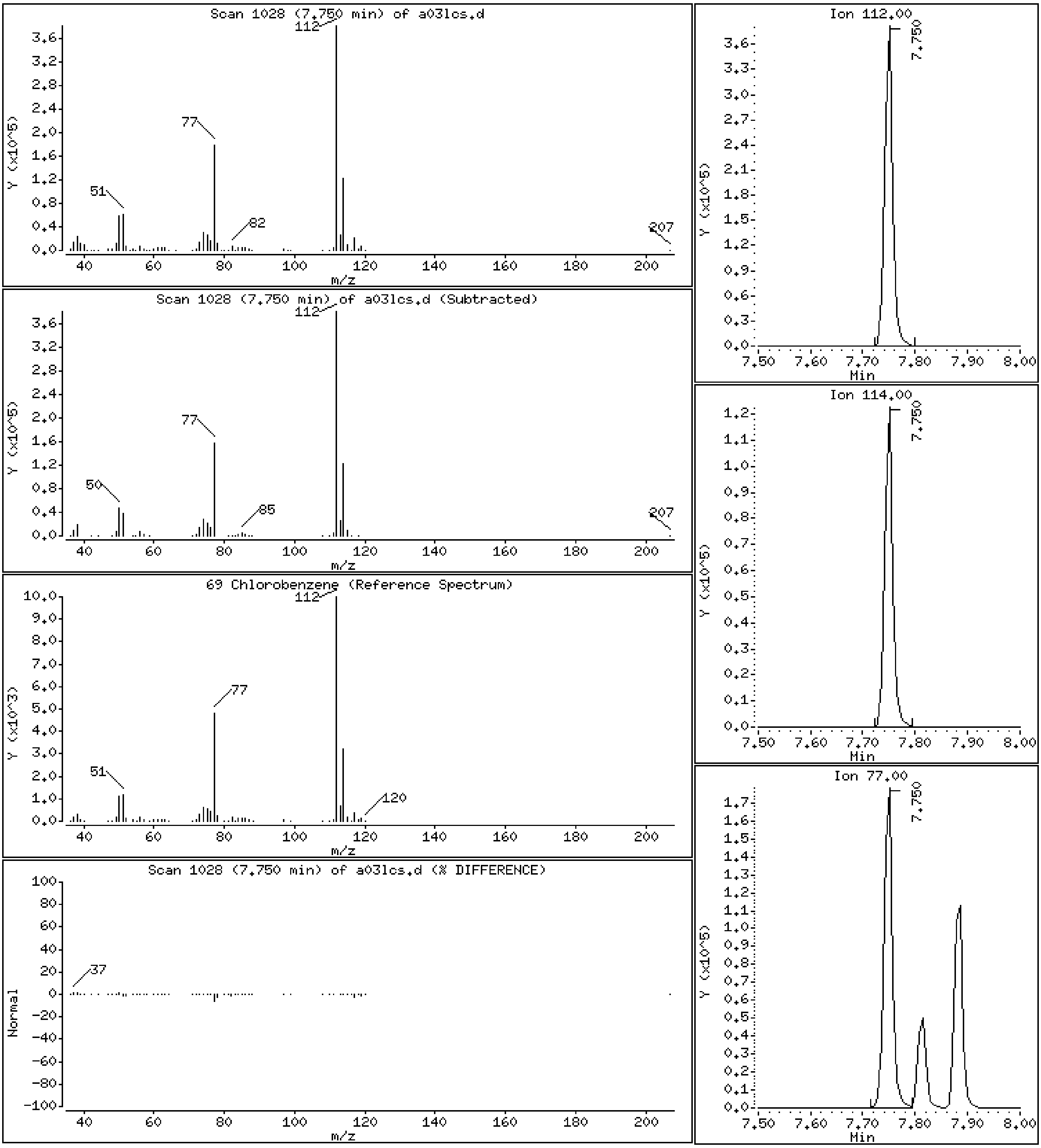
Column phase: DB-624

Column diameter: 0.18

69 Chlorobenzene

Concentration: 44.9 ppb

Review Code:



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Date : 23-JAN-2023 11:36

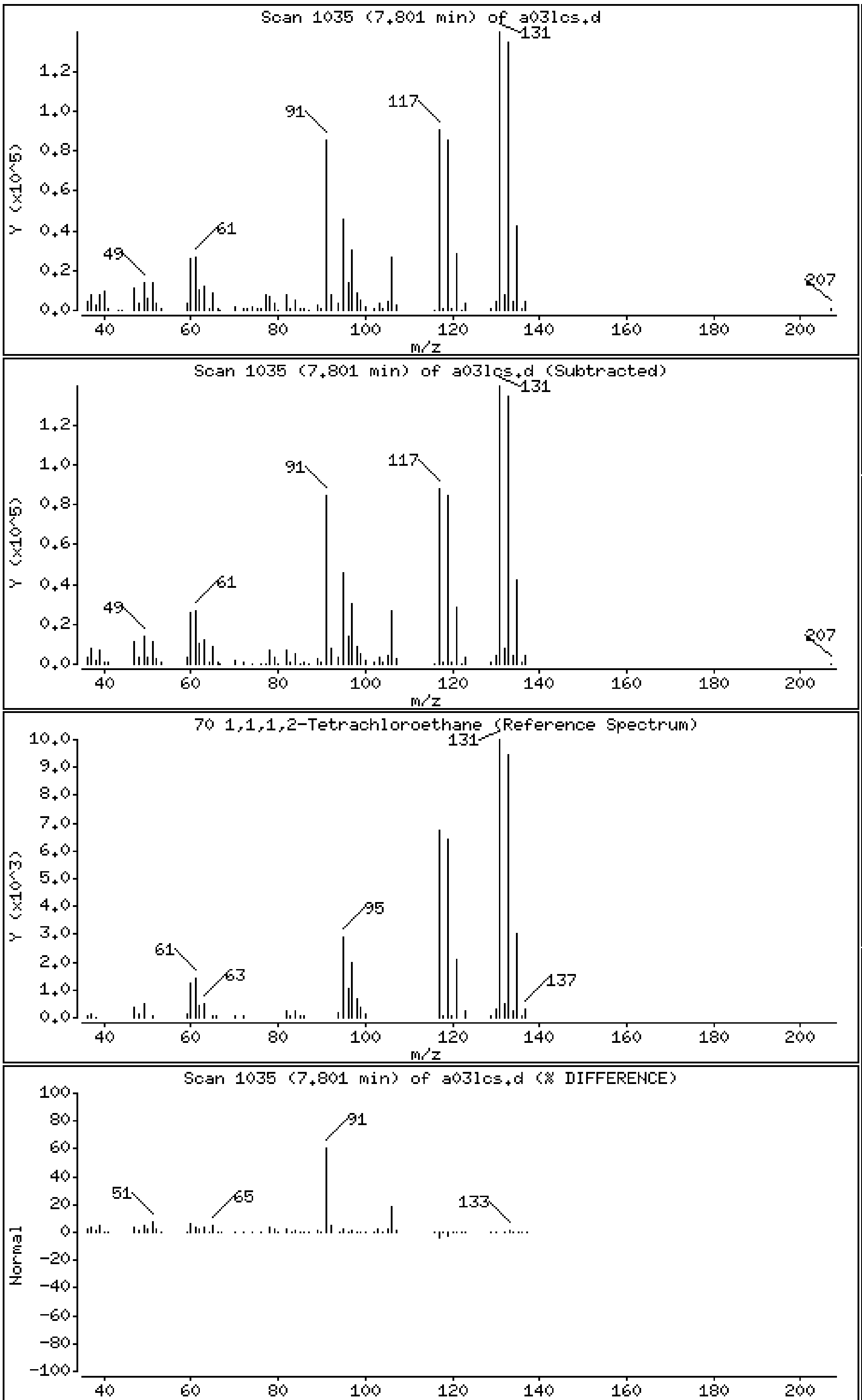
Client ID: Instrument: 50mvda.i

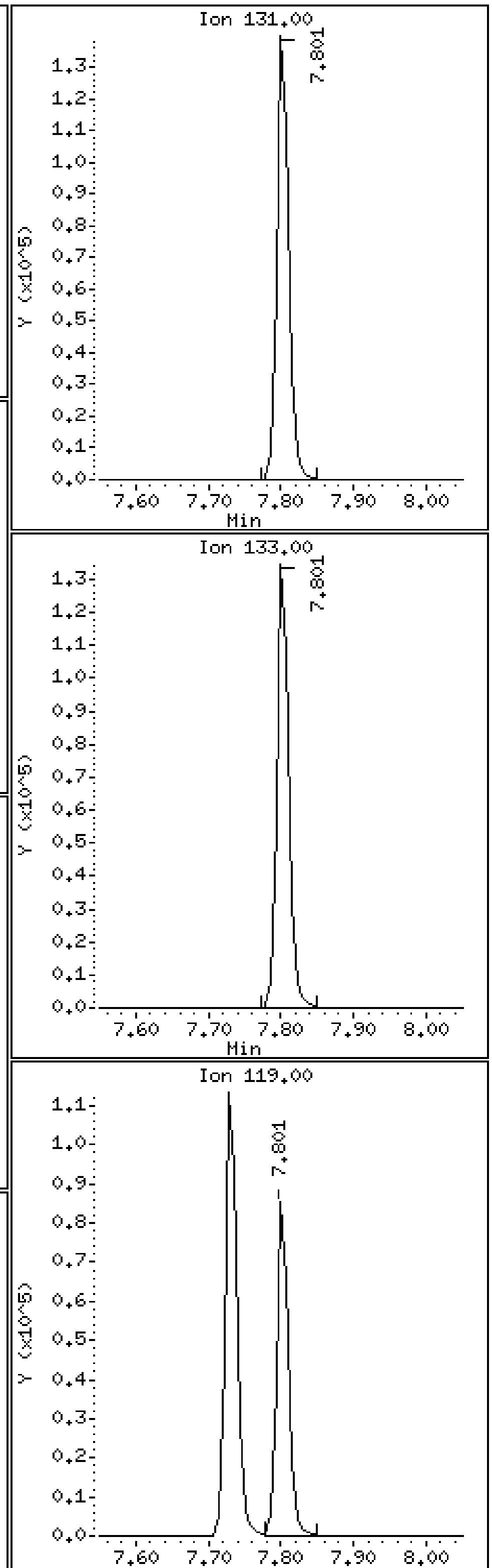
Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane Concentration: 48.2 ppb Review Code:





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Date : 23-JAN-2023 11:36

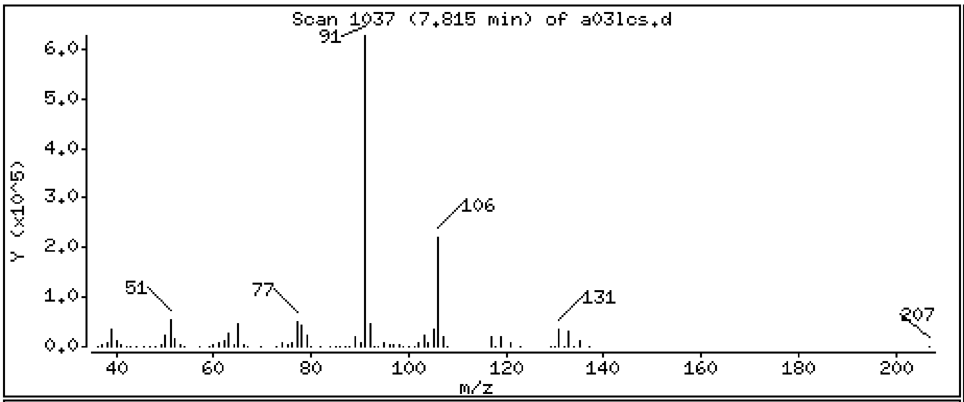
Client ID: Instrument: 50mvda.i

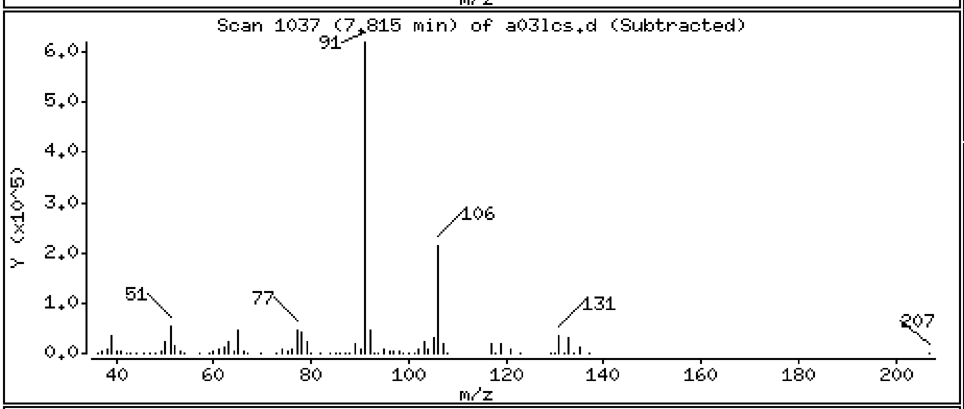
Sample Info: 3287446,336256:5

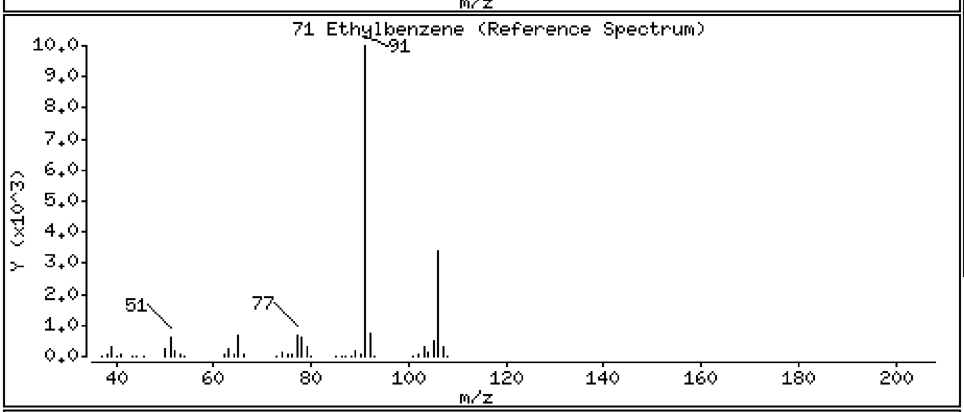
Purge Volume: 5.0 Operator: tkg

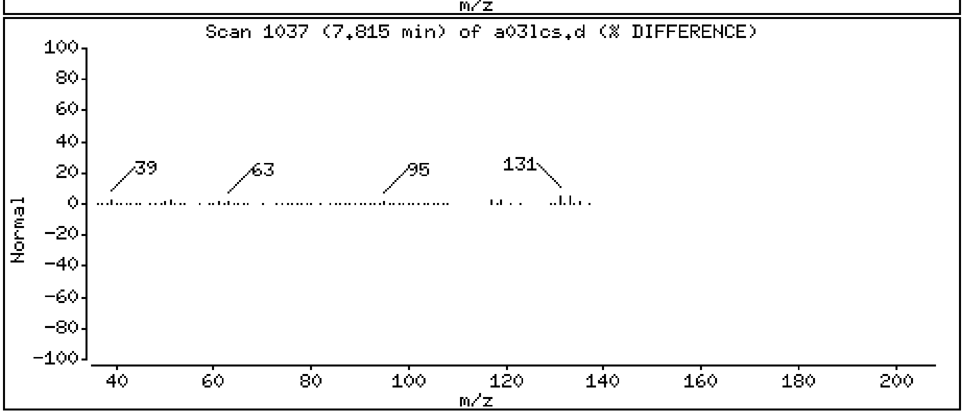
Column phase: DB-624 Column diameter: 0.18

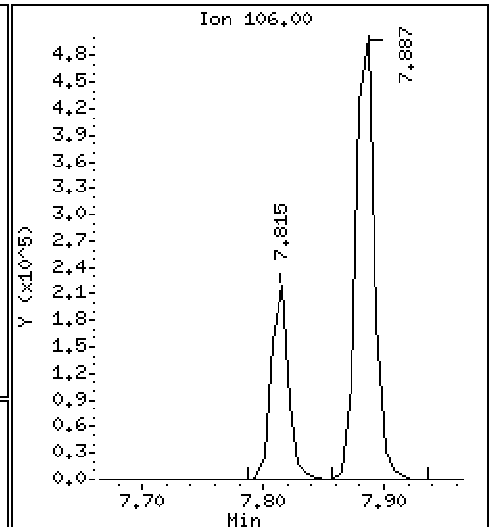
71 Ethylbenzene Concentration: 44.3 ppb Review Code:

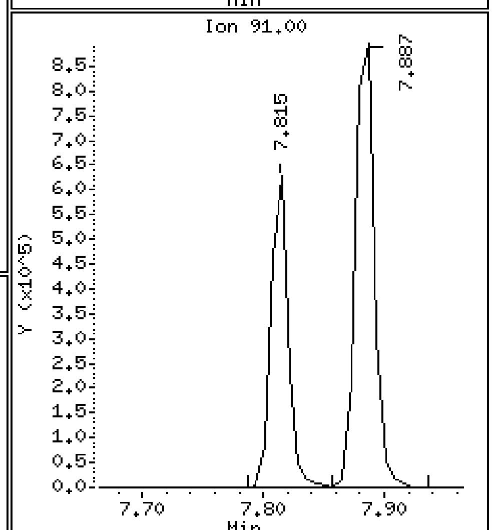












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

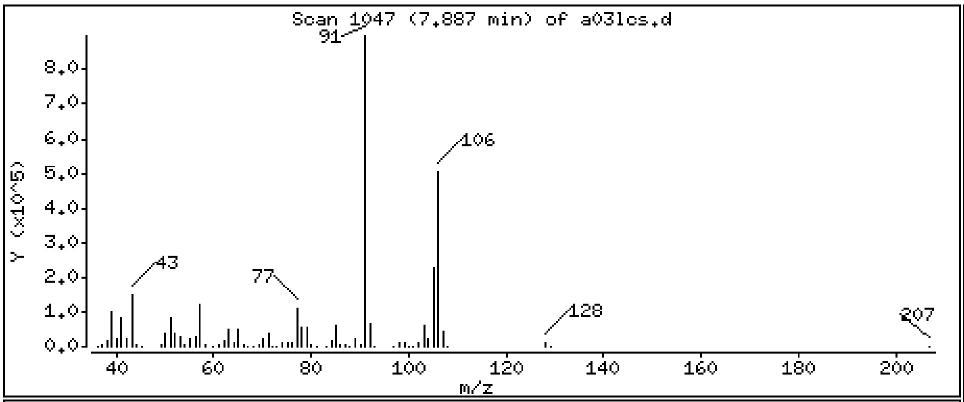
Column phase: DB-624

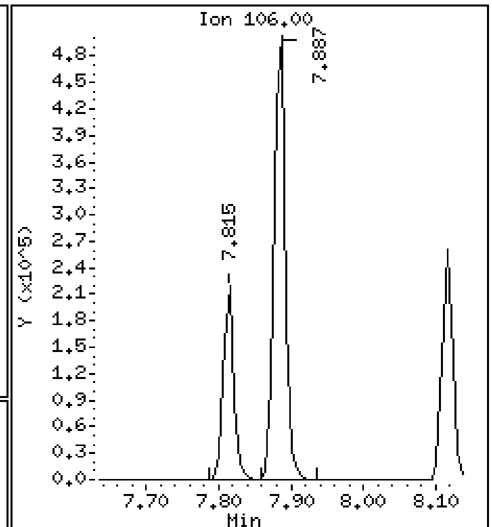
Column diameter: 0.18

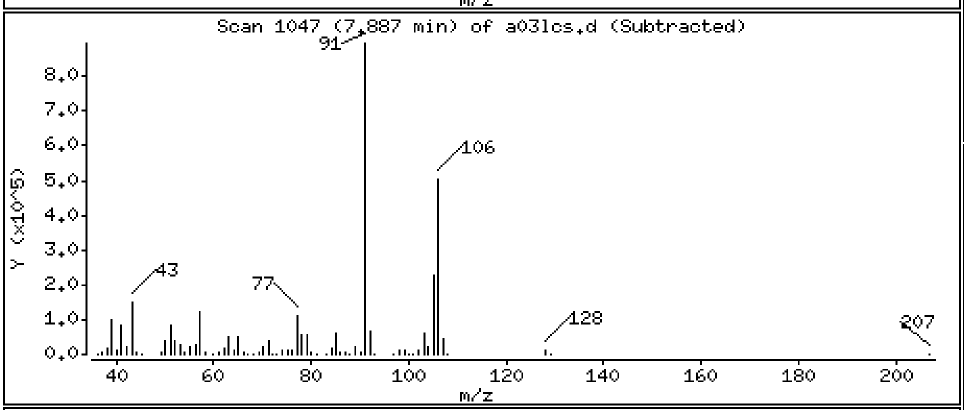
72 m&p-Xylene

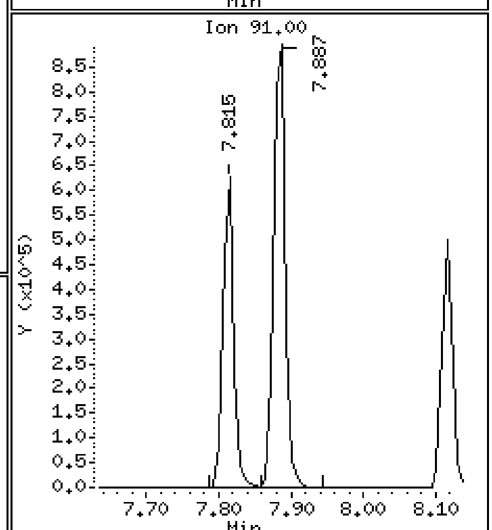
Concentration: 88.9 ppb

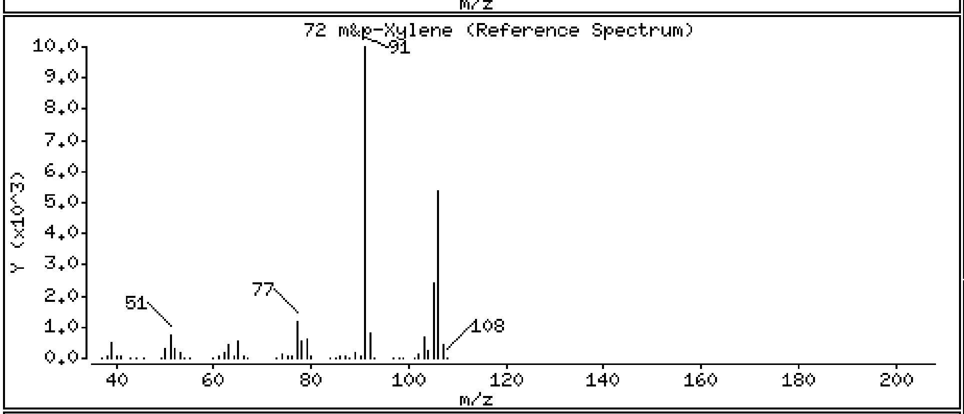
Review Code:

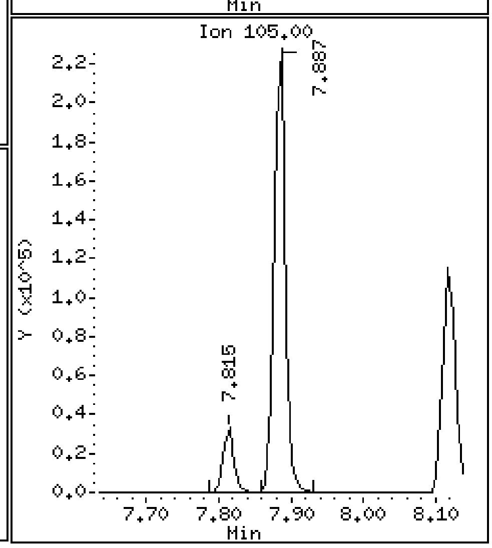


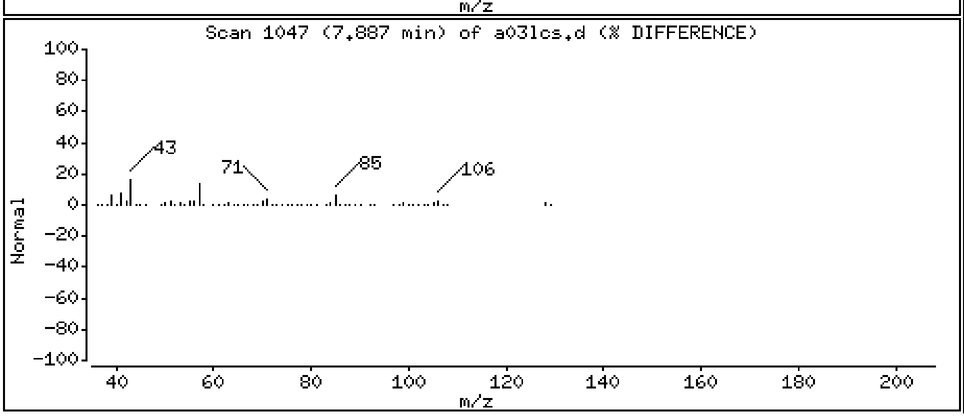












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

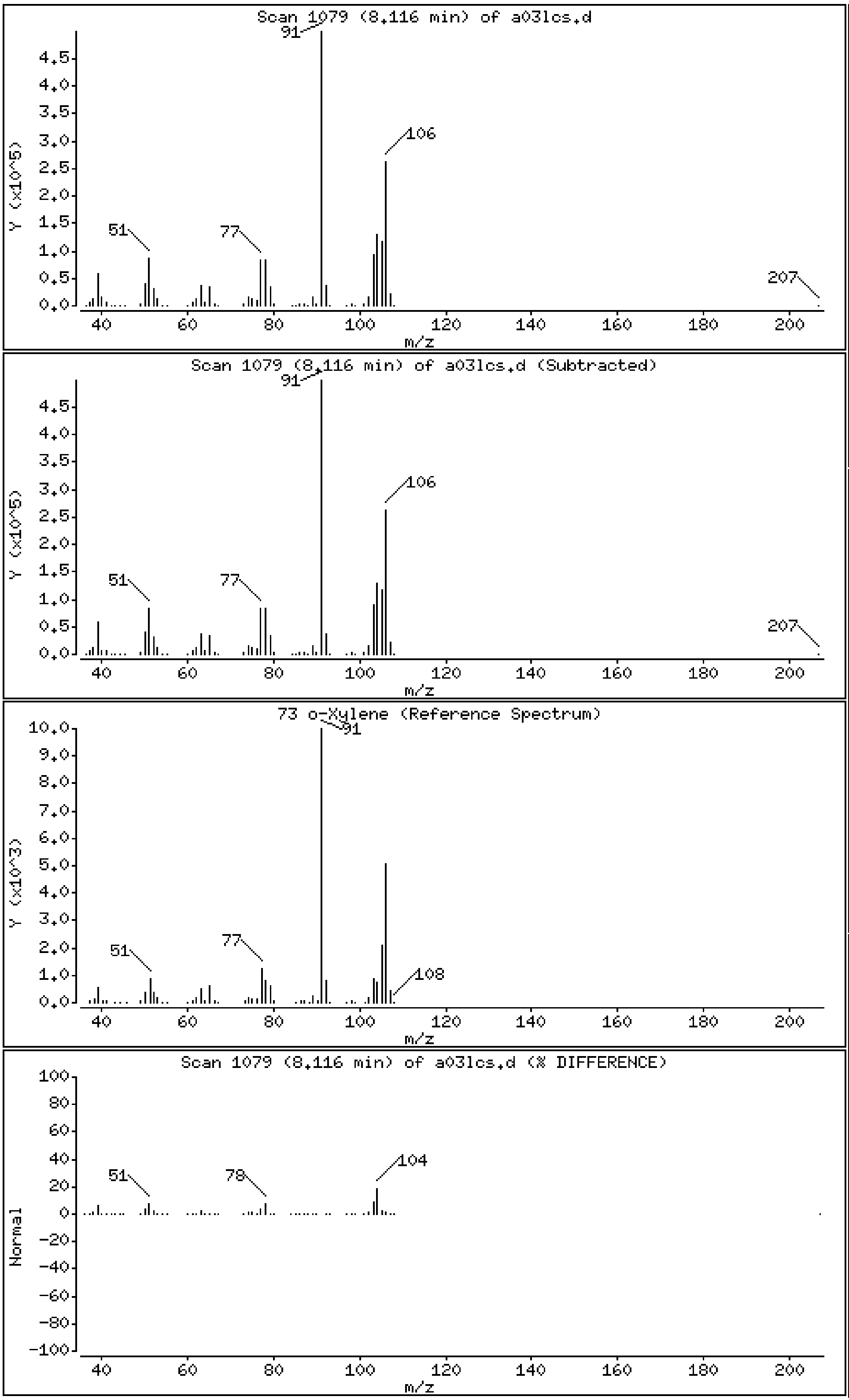
Column phase: DB-624

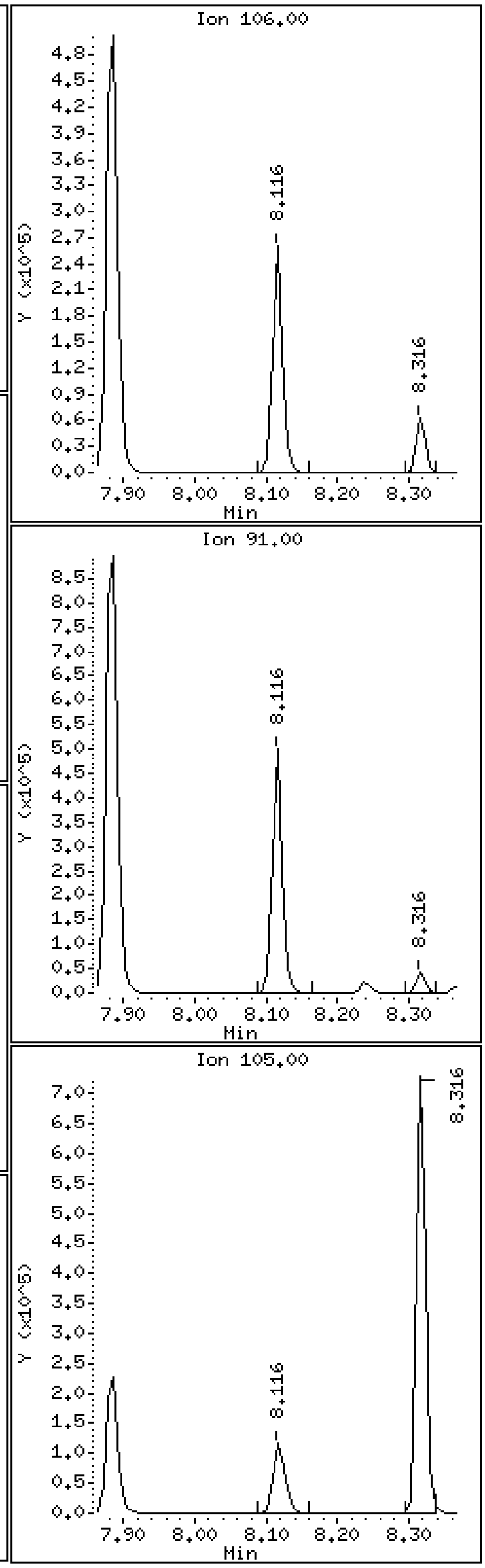
Column diameter: 0.18

73 o-Xylene

Concentration: 43.9 ppb

Review Code:





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Date : 23-JAN-2023 11:36

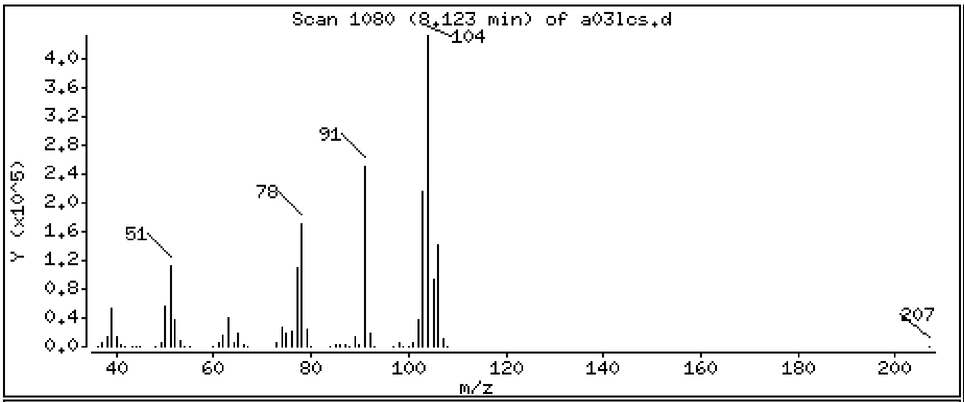
Client ID: Instrument: 50mvda.i

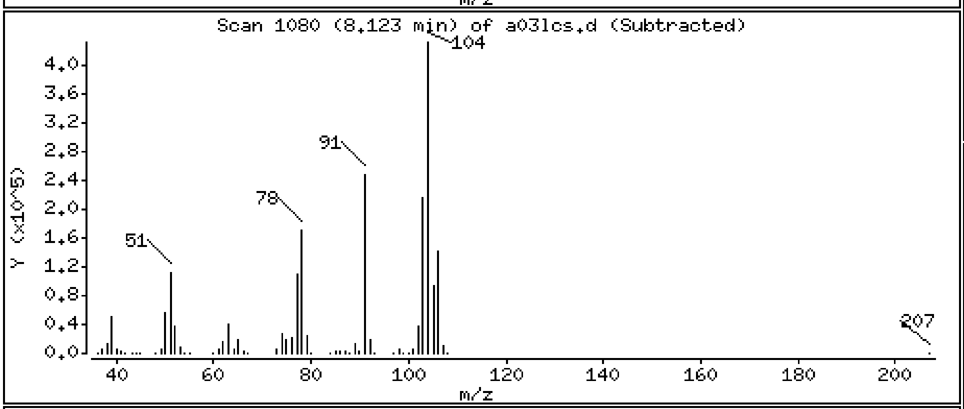
Sample Info: 3287446,336256:5

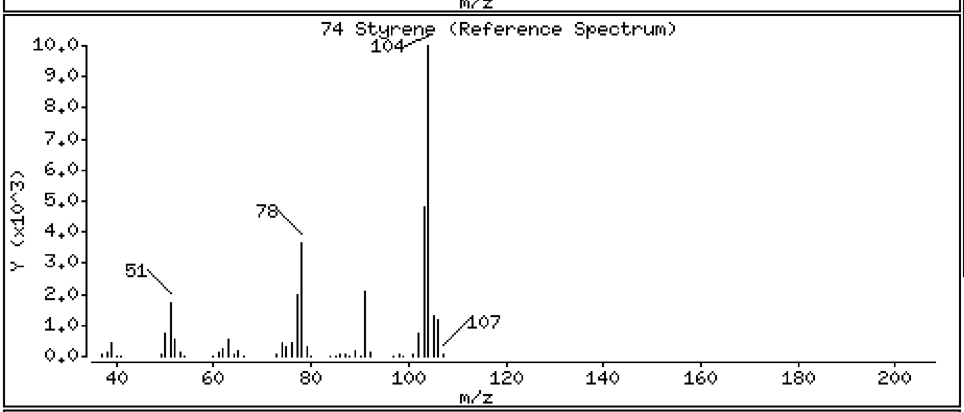
Purge Volume: 5.0 Operator: tkg

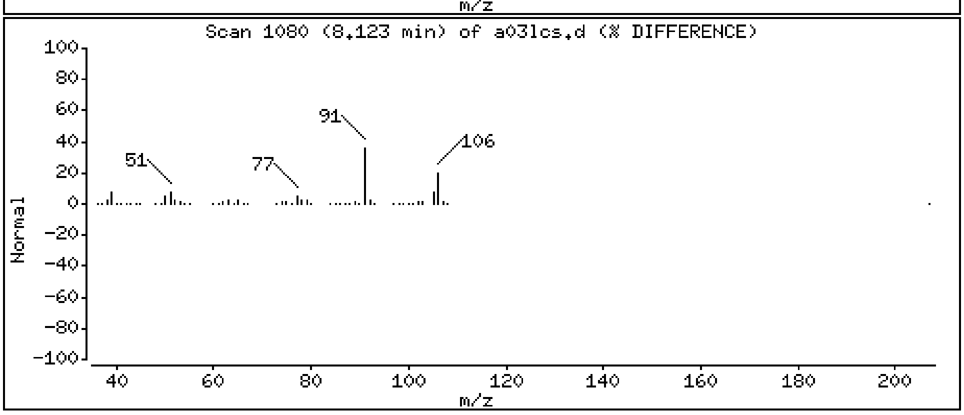
Column phase: DB-624 Column diameter: 0.18

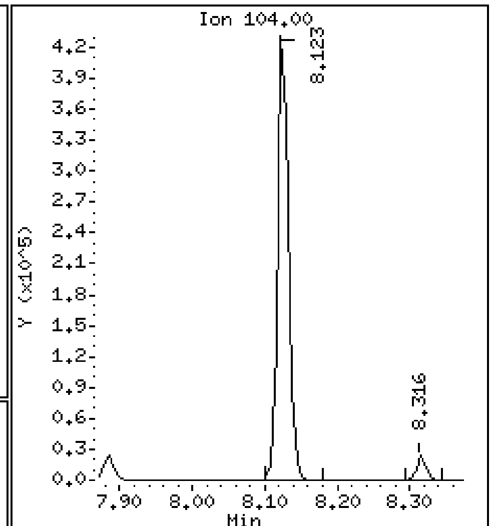
74 Styrene Concentration: 44.2 ppb Review Code:

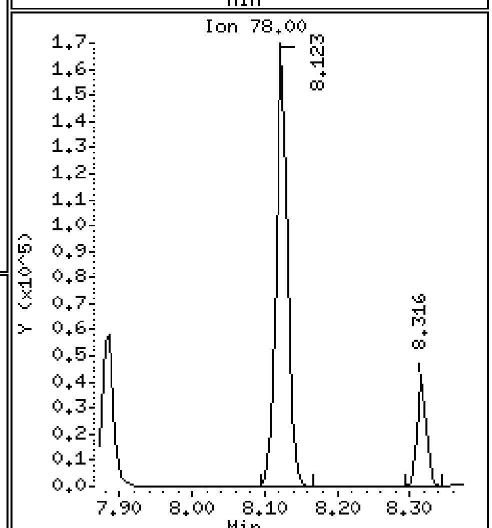












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

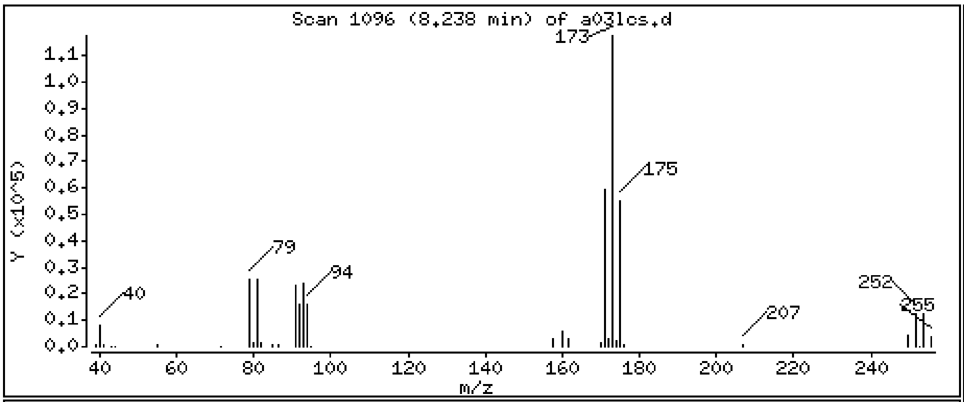
Column phase: DB-624

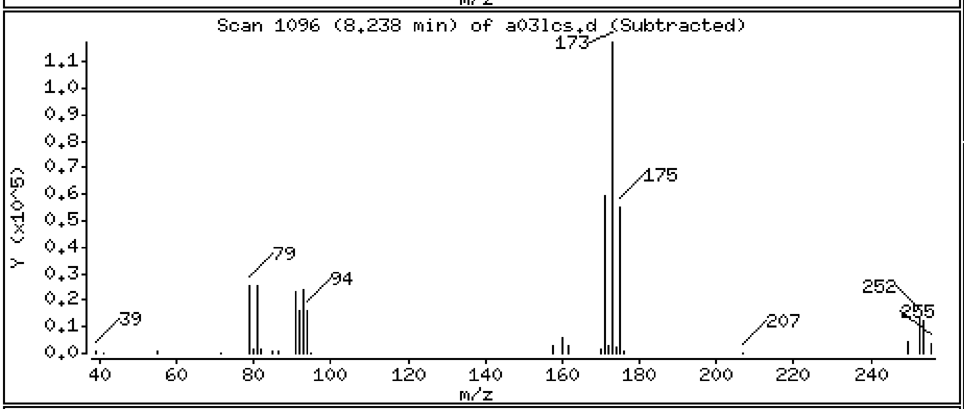
Column diameter: 0.18

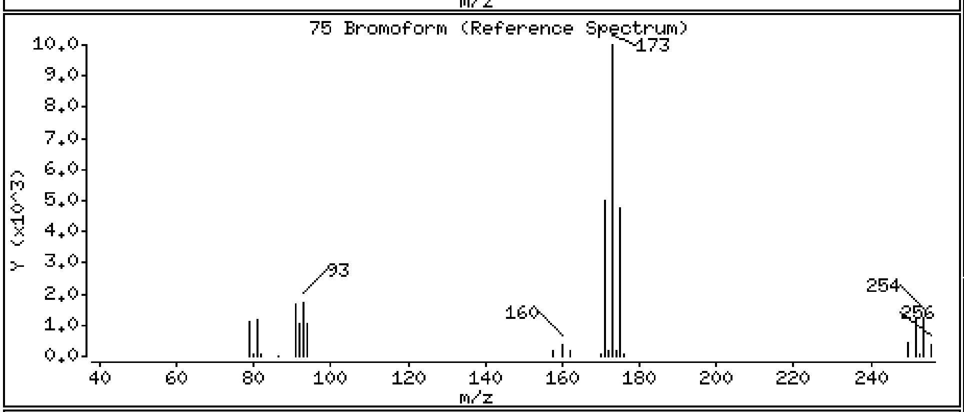
75 Bromoform

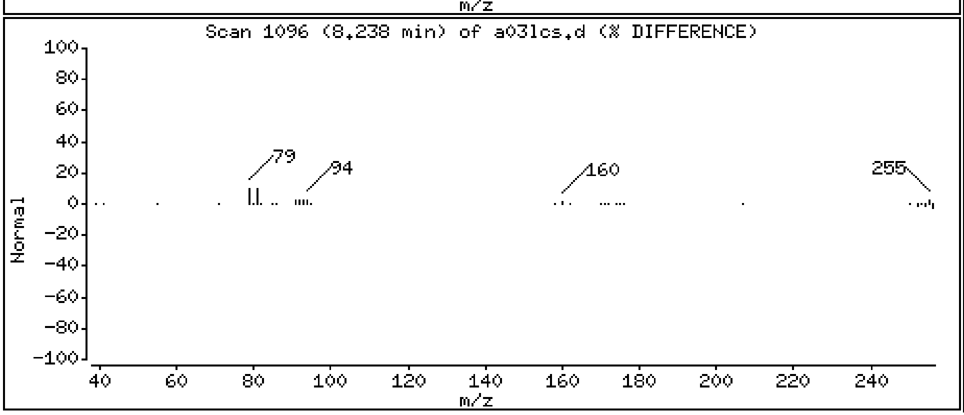
Concentration: 50.1 ppb

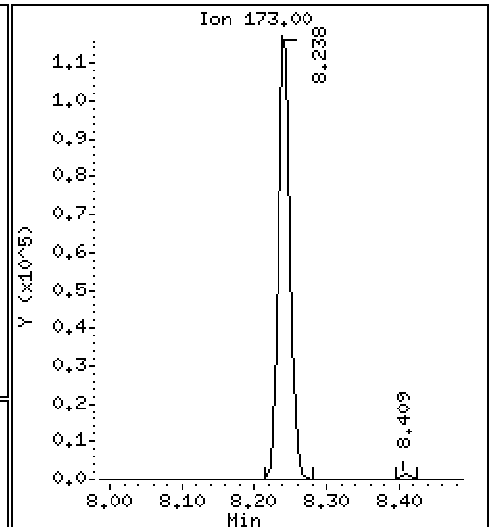
Review Code:

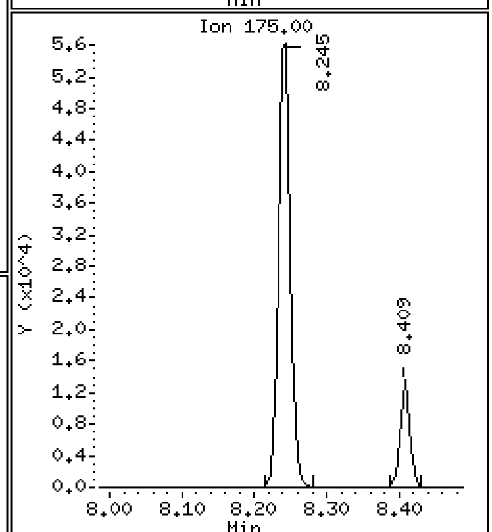


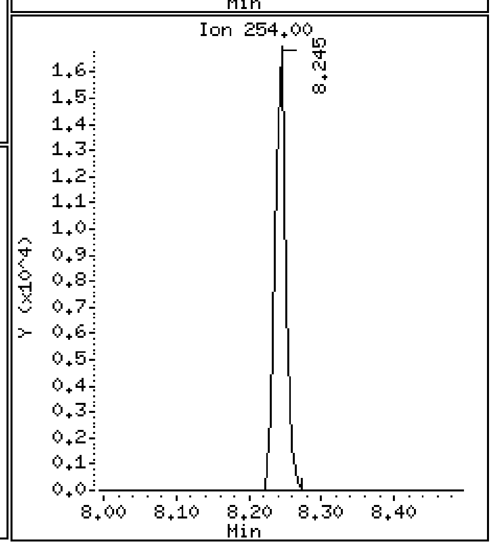












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Date : 23-JAN-2023 11:36

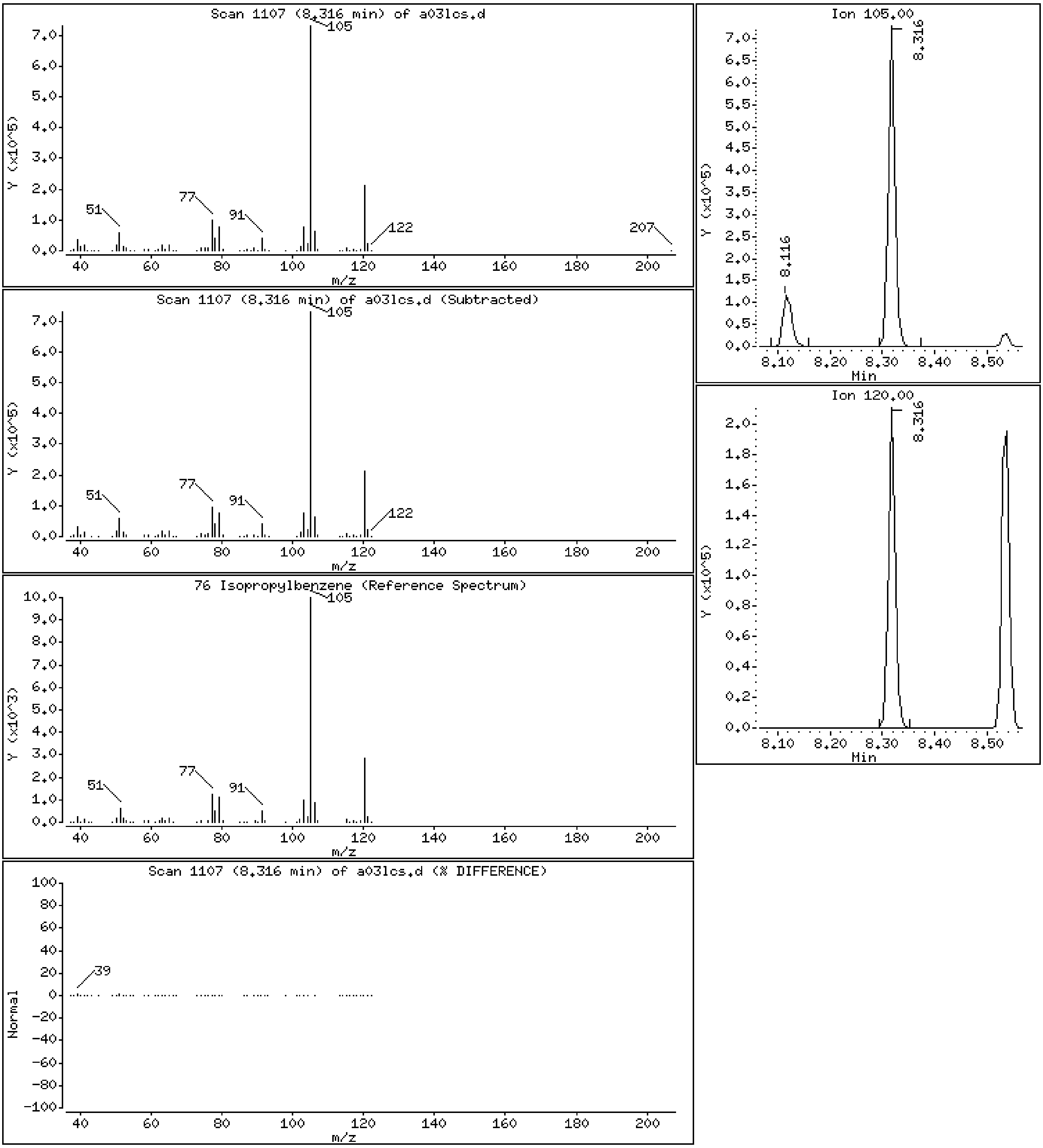
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

76 Isopropylbenzene Concentration: 43.3 ppb Review Code:



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Date : 23-JAN-2023 11:36

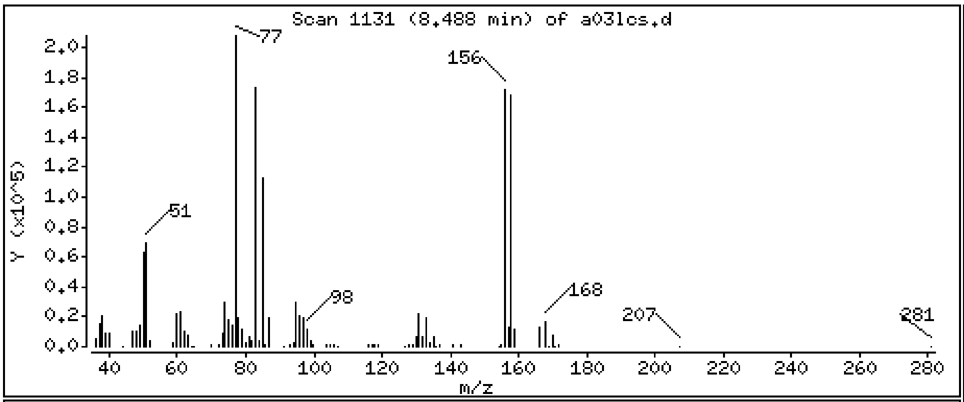
Client ID: Instrument: 50mvda.i

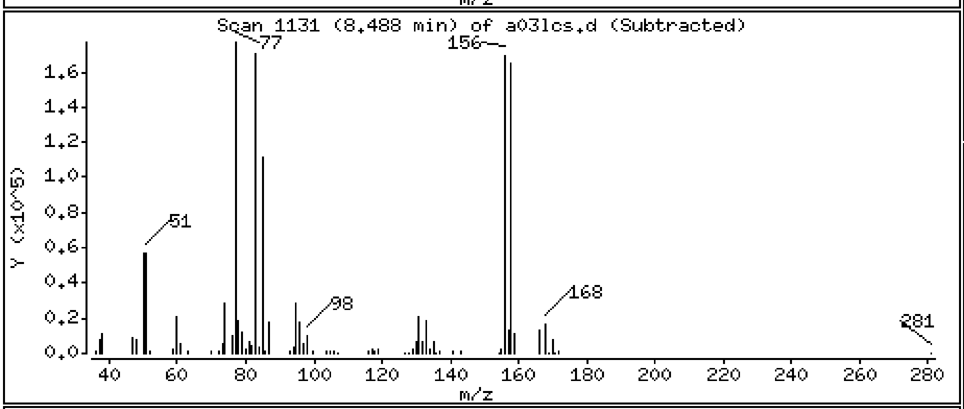
Sample Info: 3287446,336256:5

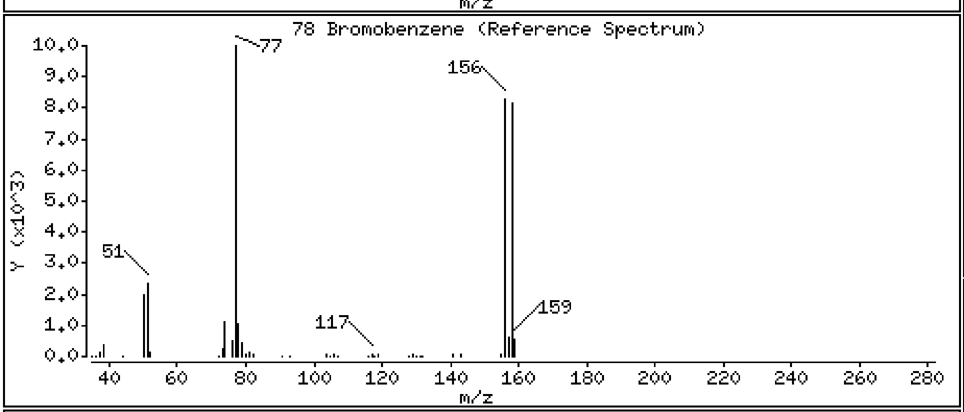
Purge Volume: 5.0 Operator: tkg

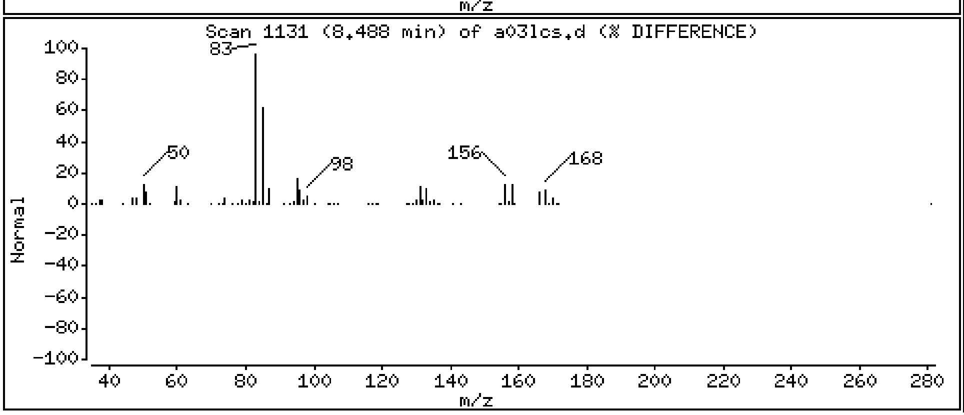
Column phase: DB-624 Column diameter: 0.18

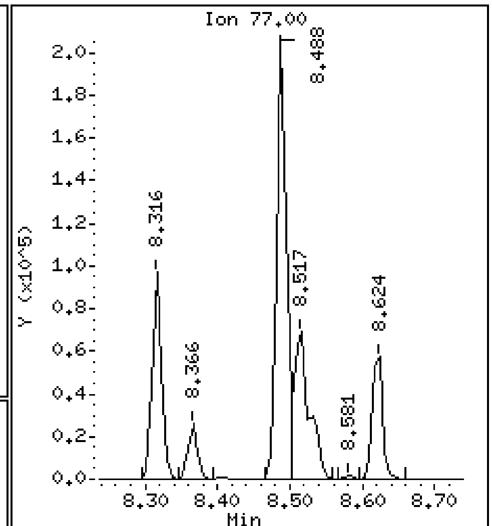
78 Bromobenzene Concentration: 40.3 ppb Review Code:

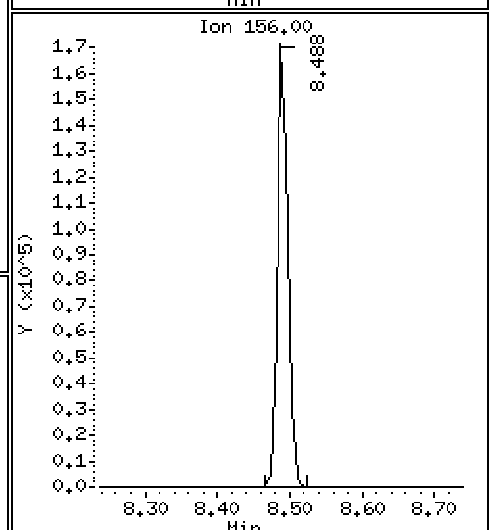


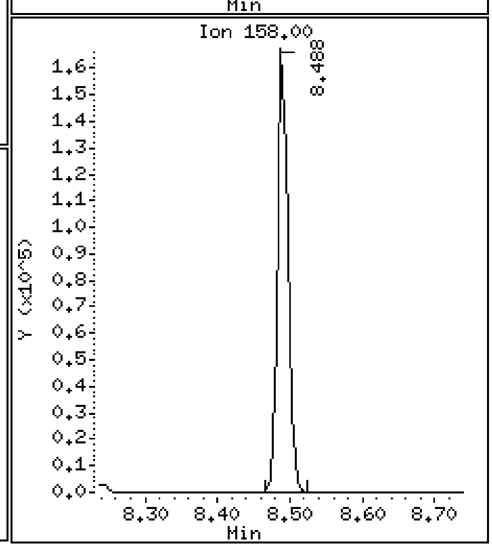












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

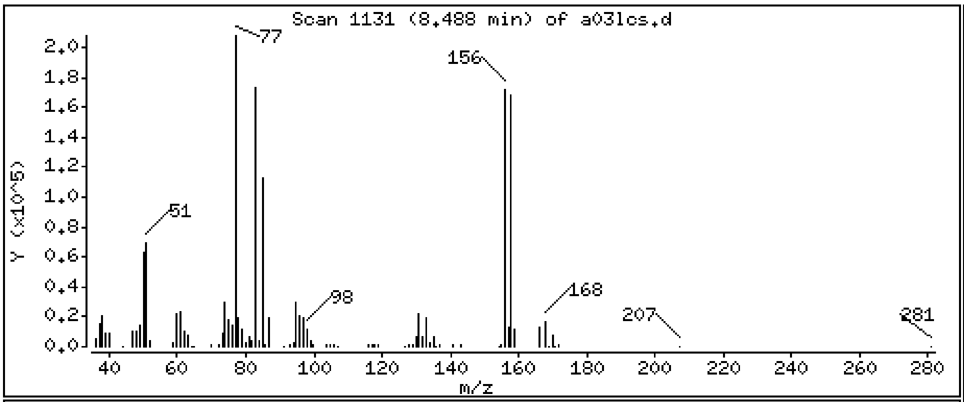
Column phase: DB-624

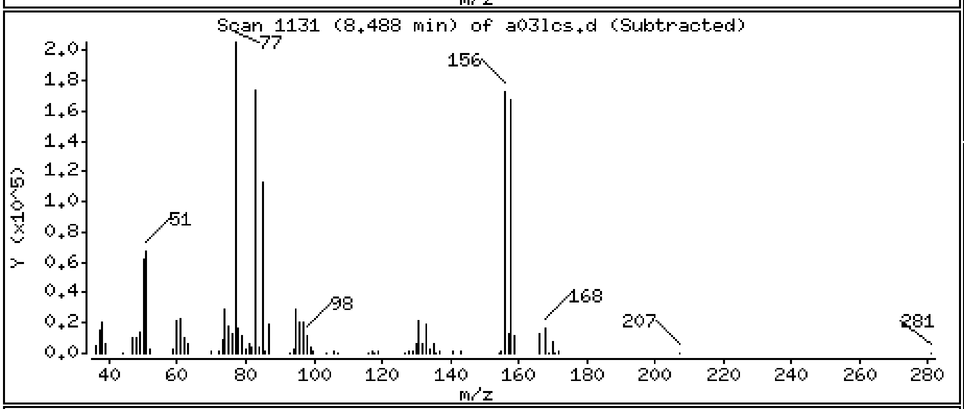
Column diameter: 0.18

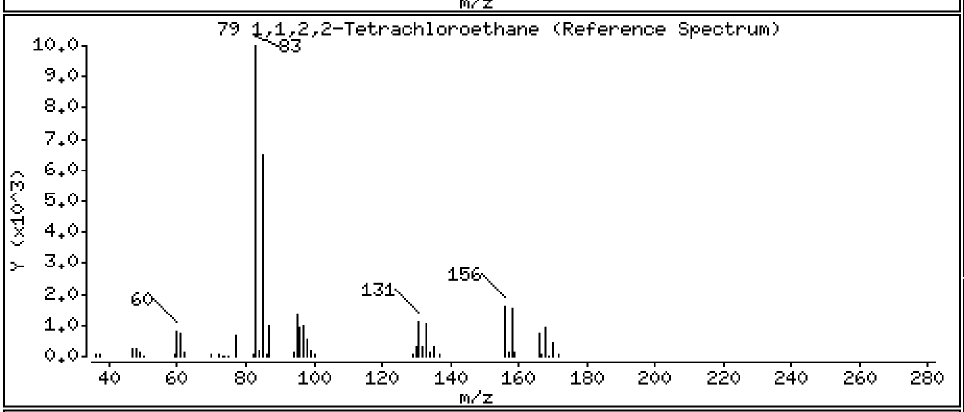
79 1,1,2,2-Tetrachloroethane

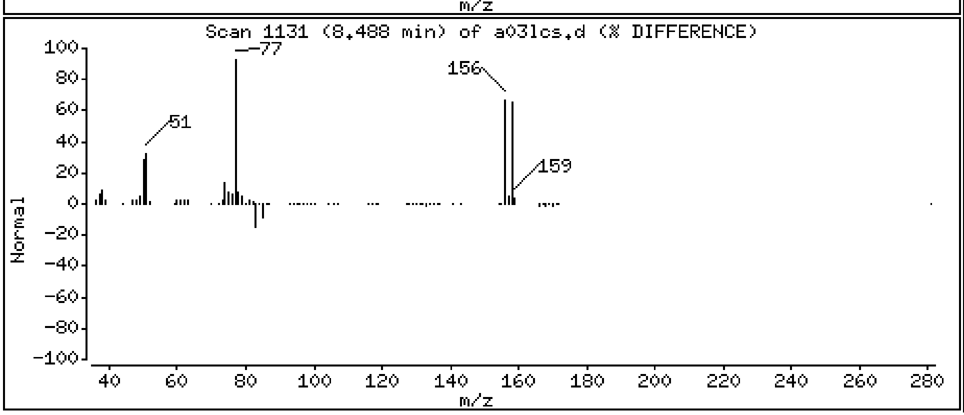
Concentration: 37.0 ppb

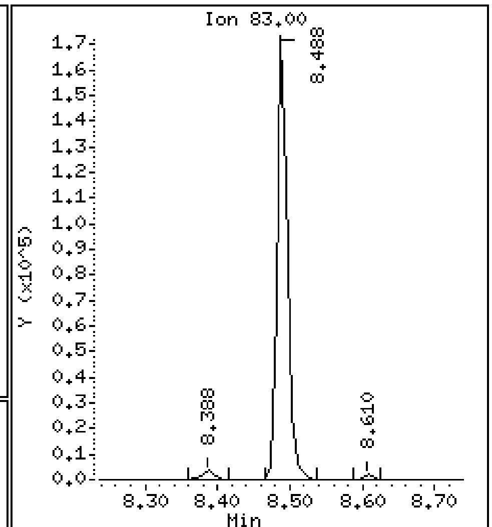
Review Code:

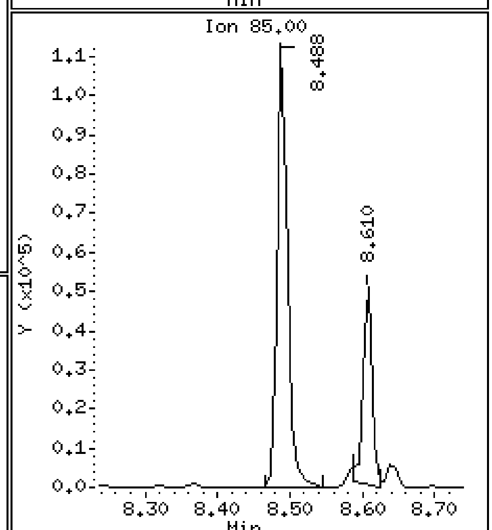


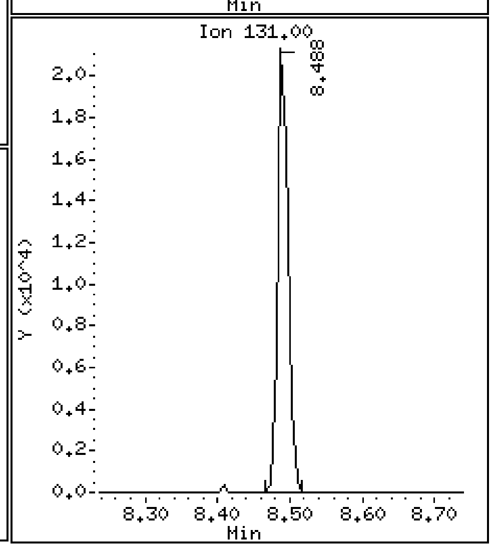












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

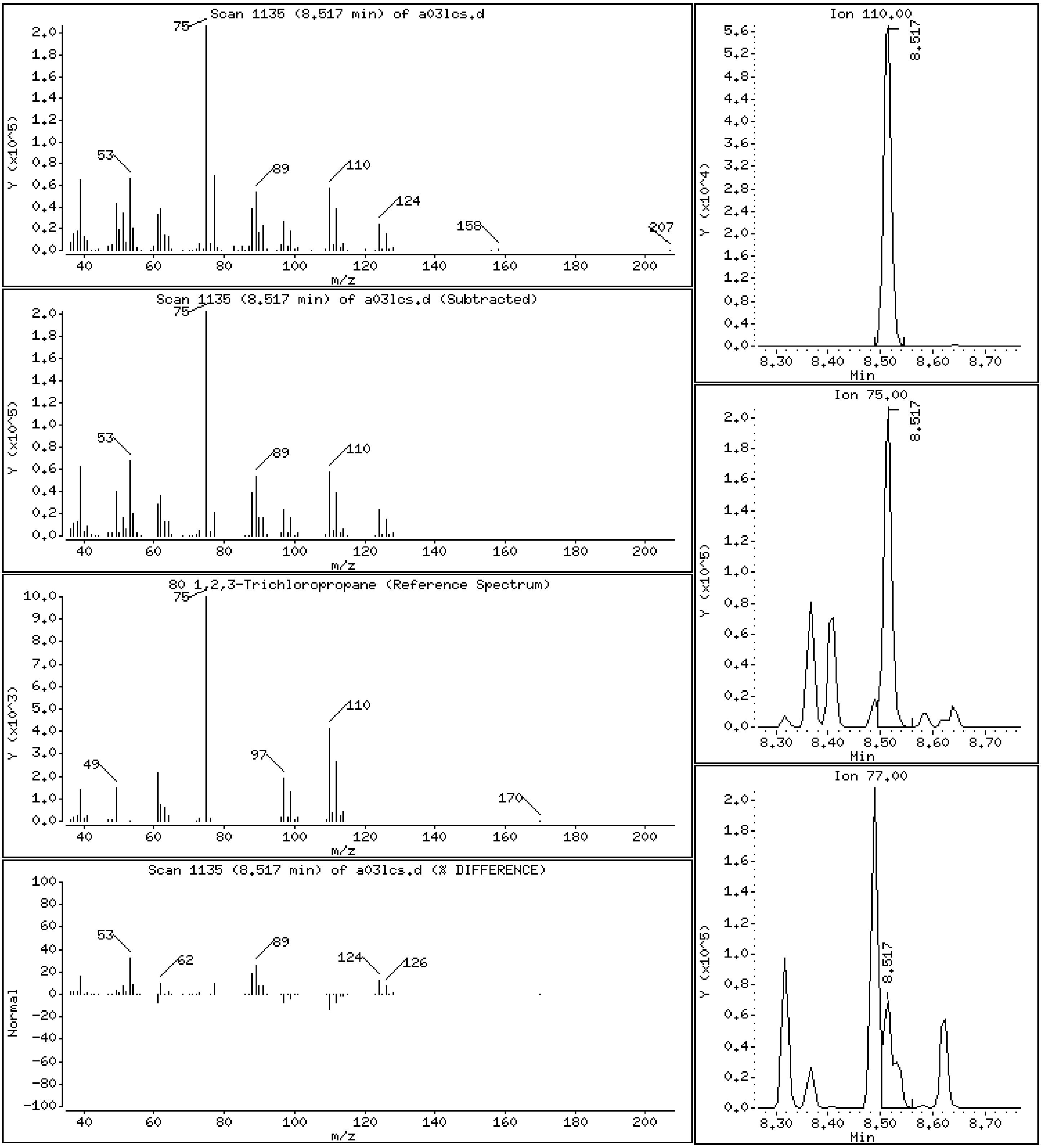
Column phase: DB-624

Column diameter: 0.18

80 1,2,3-Trichloropropane

Concentration: 41.0 ppb

Review Code:



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Date : 23-JAN-2023 11:36

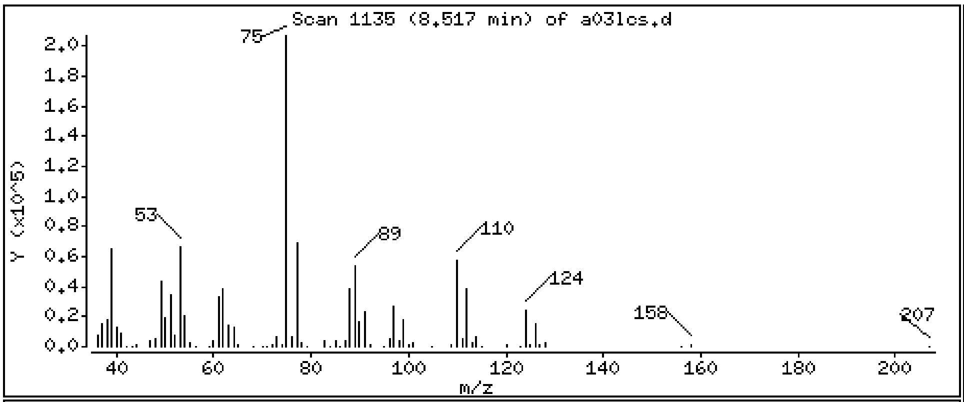
Client ID: Instrument: 50mvda.i

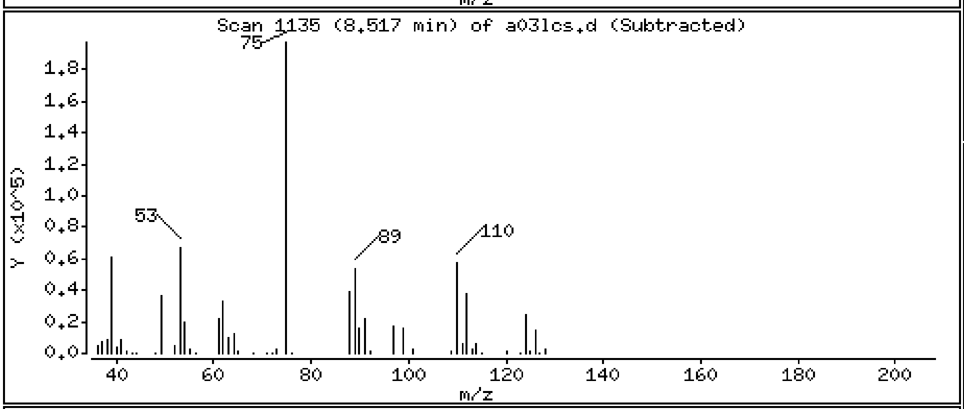
Sample Info: 3287446,336256:5

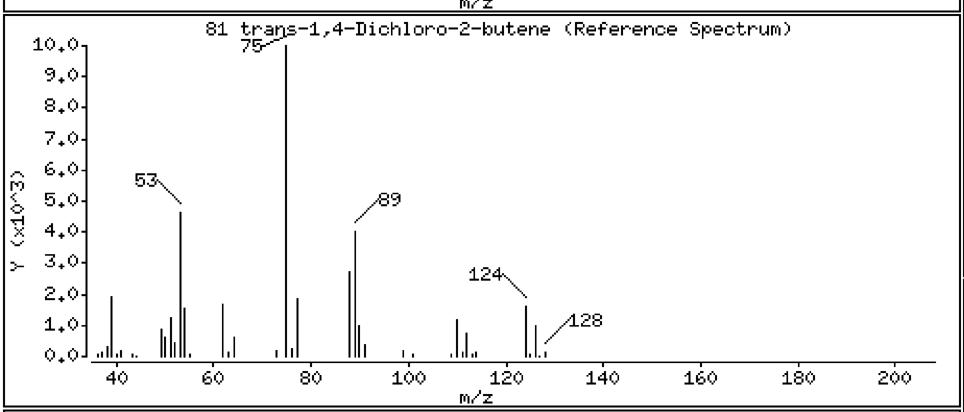
Purge Volume: 5.0 Operator: tkg

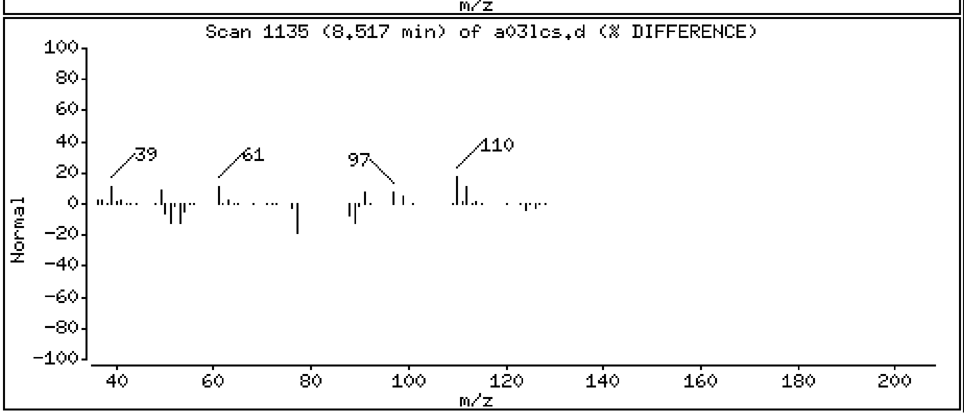
Column phase: DB-624 Column diameter: 0.18

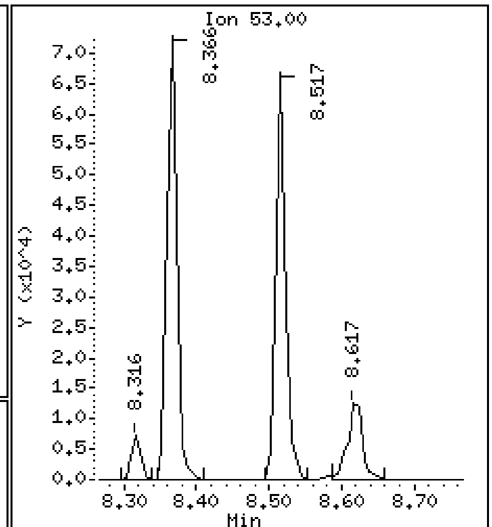
81 trans-1,4-Dichloro-2-butene Concentration: 39.7 ppb Review Code:

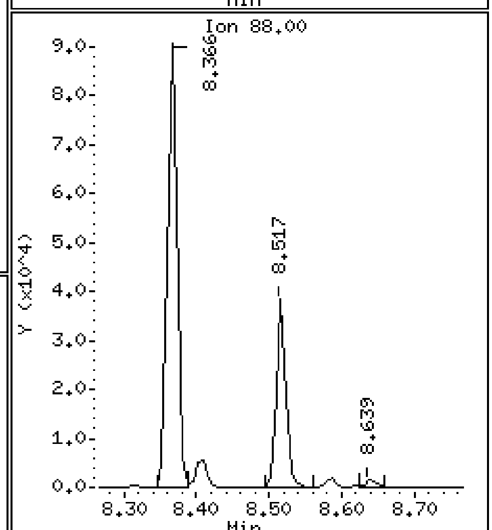


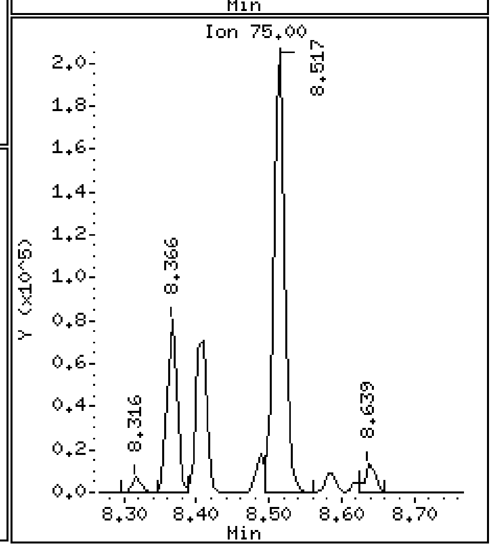












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Date : 23-JAN-2023 11:36

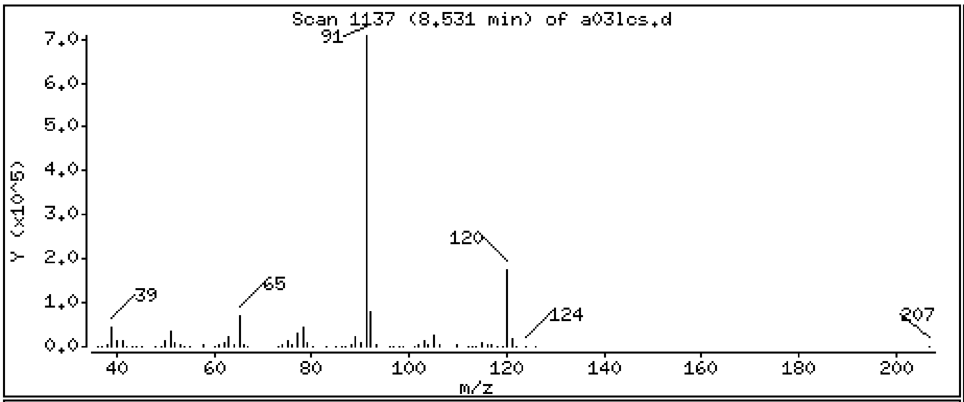
Client ID: Instrument: 50mvda.i

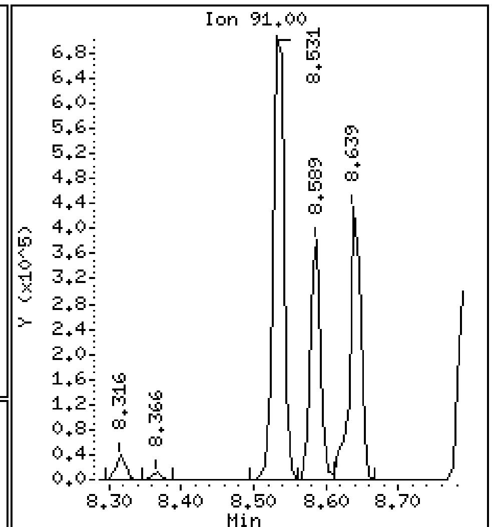
Sample Info: 3287446,336256:5

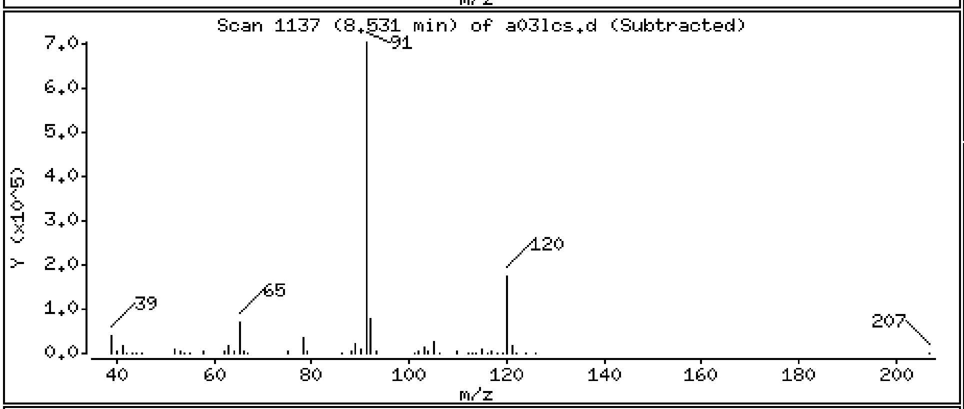
Purge Volume: 5.0 Operator: tkg

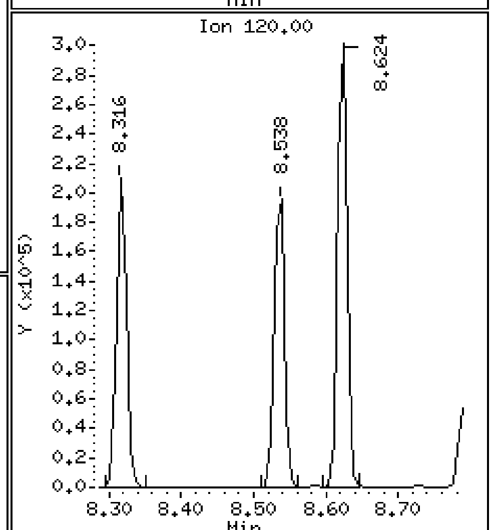
Column phase: DB-624 Column diameter: 0.18

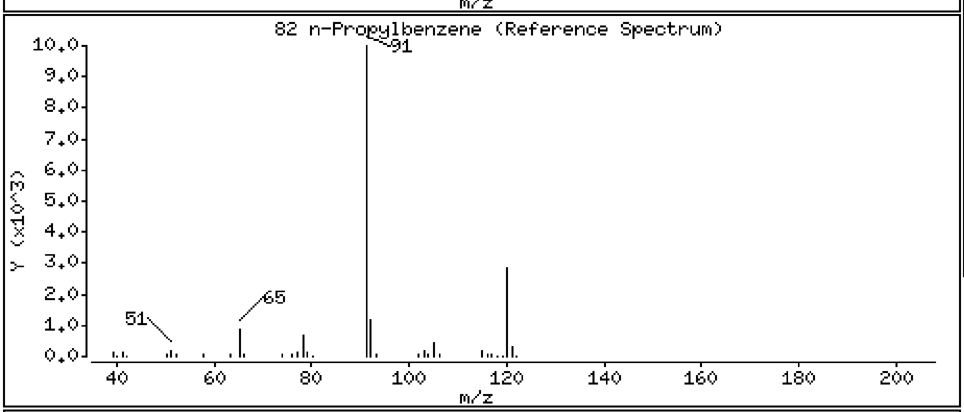
82 n-Propylbenzene Concentration: 38.4 ppb Review Code:

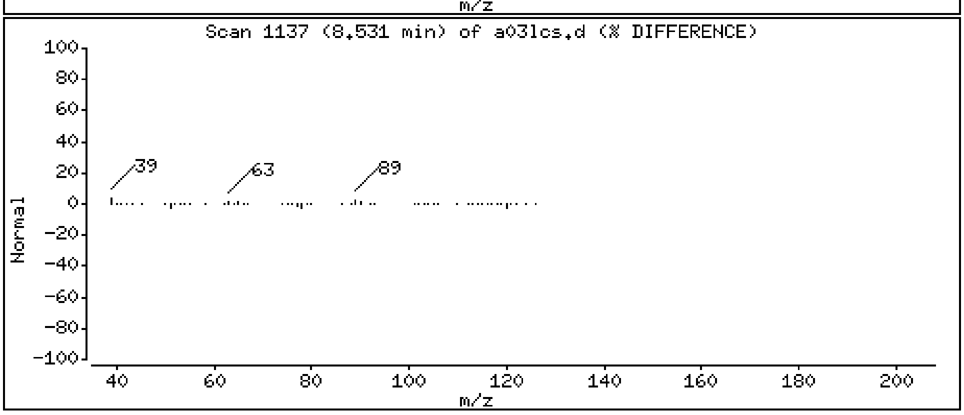












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

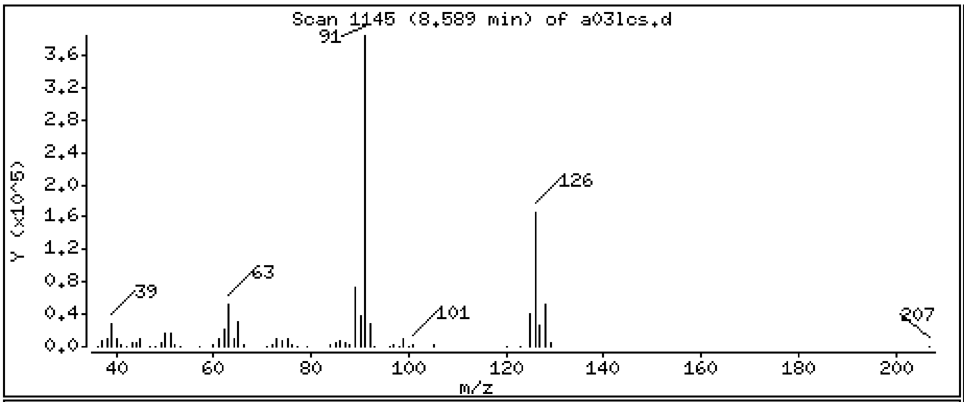
Column phase: DB-624

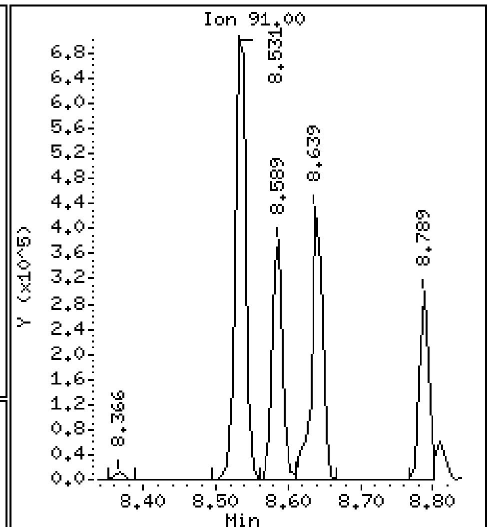
Column diameter: 0.18

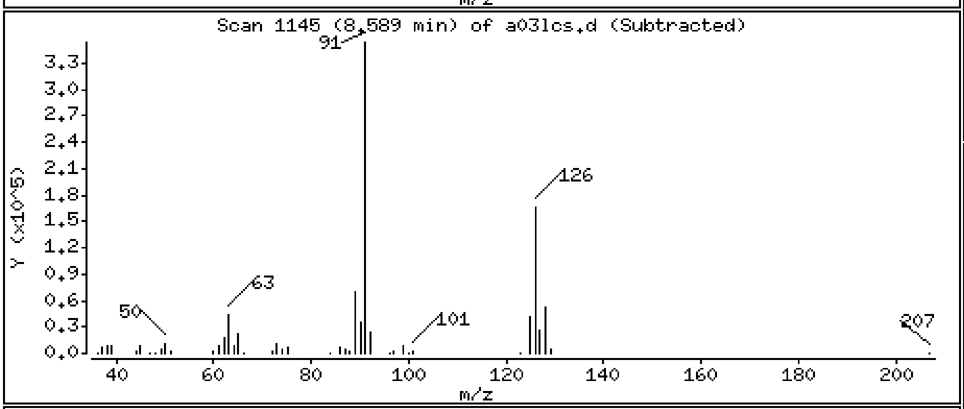
83 2-Chlorotoluene

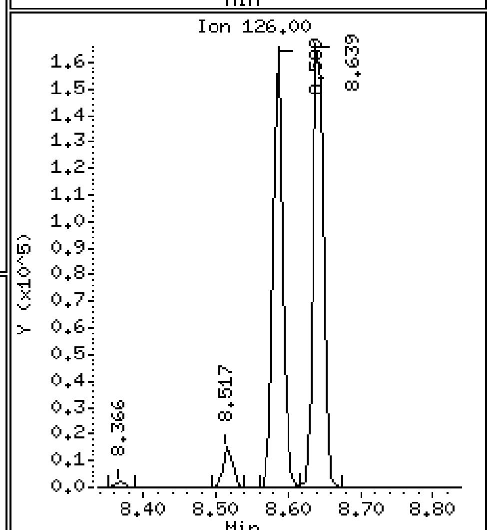
Concentration: 38.1 ppb

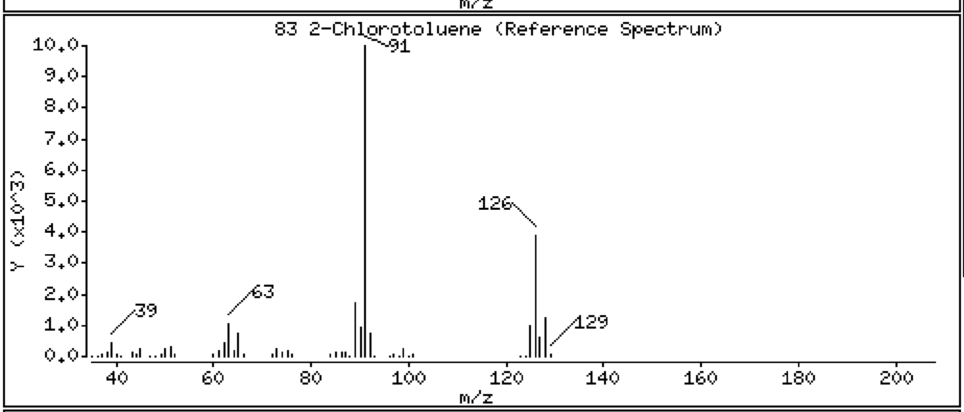
Review Code:

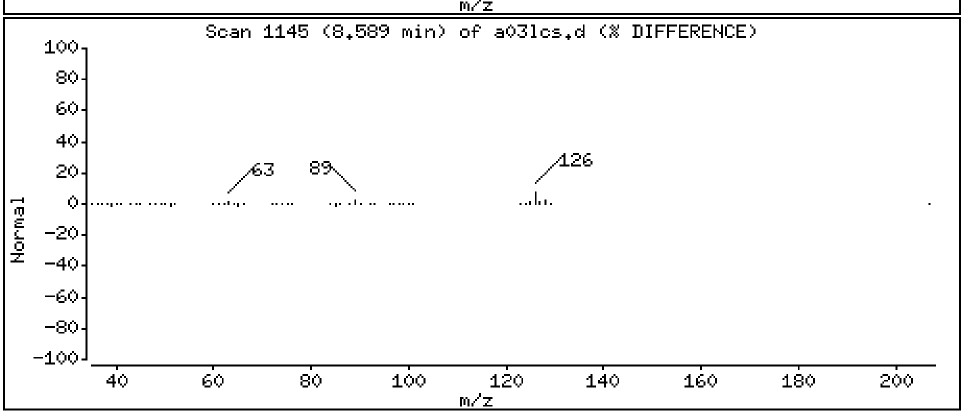












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Date : 23-JAN-2023 11:36

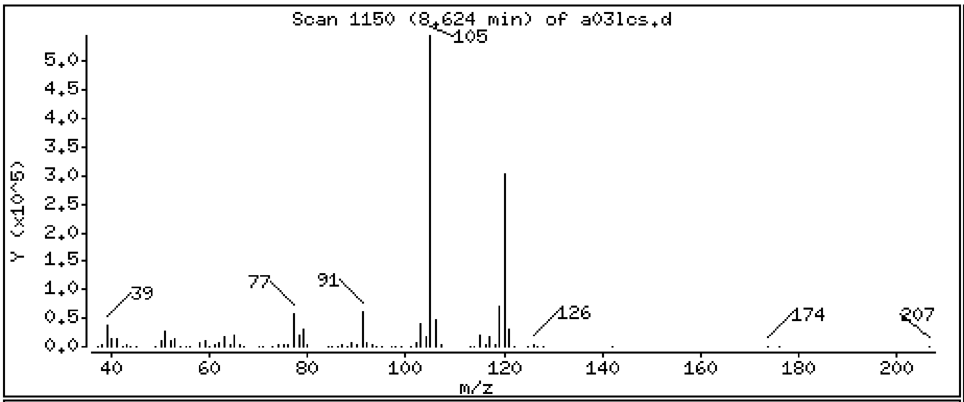
Client ID: Instrument: 50mvda.i

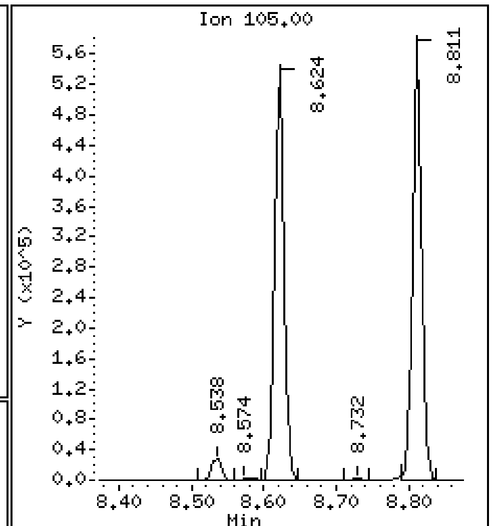
Sample Info: 3287446,336256:5

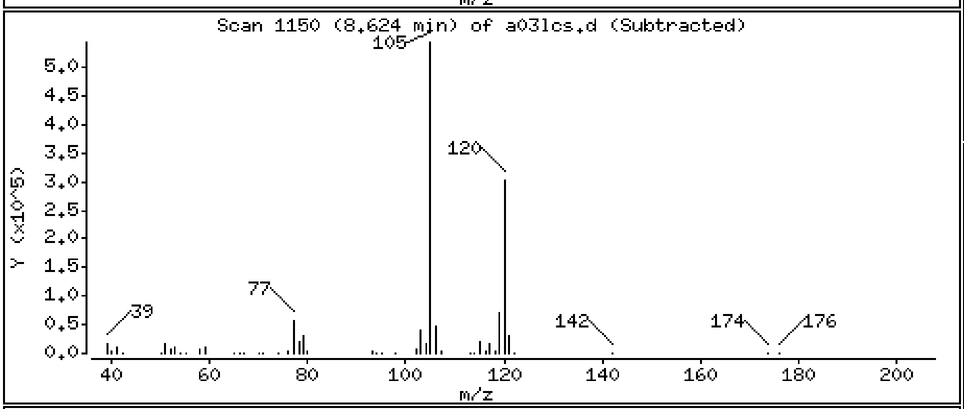
Purge Volume: 5.0 Operator: tkg

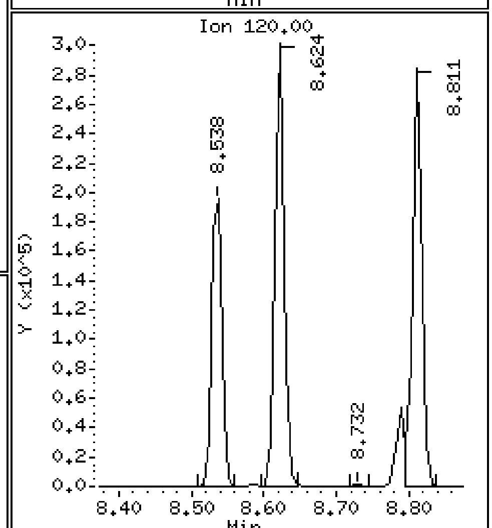
Column phase: DB-624 Column diameter: 0.18

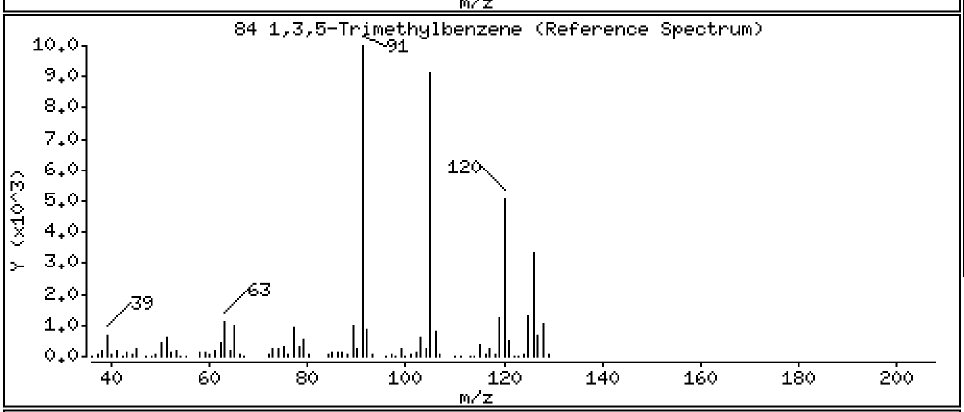
84 1,3,5-Trimethylbenzene Concentration: 40.2 ppb Review Code:

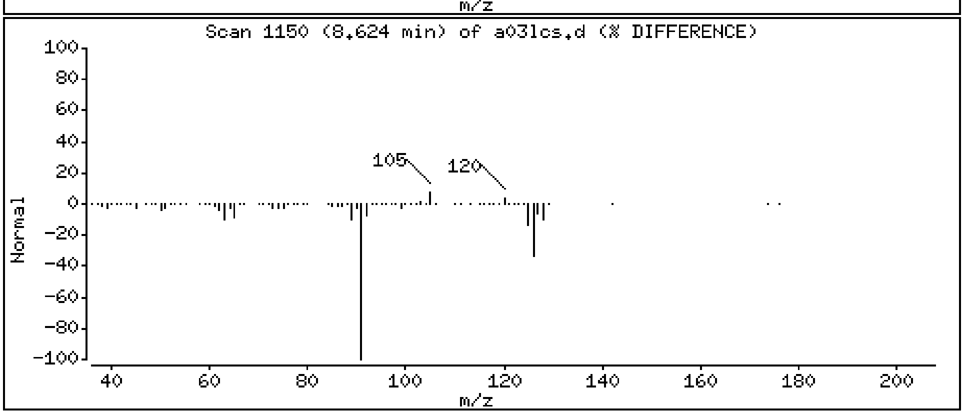












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Date : 23-JAN-2023 11:36

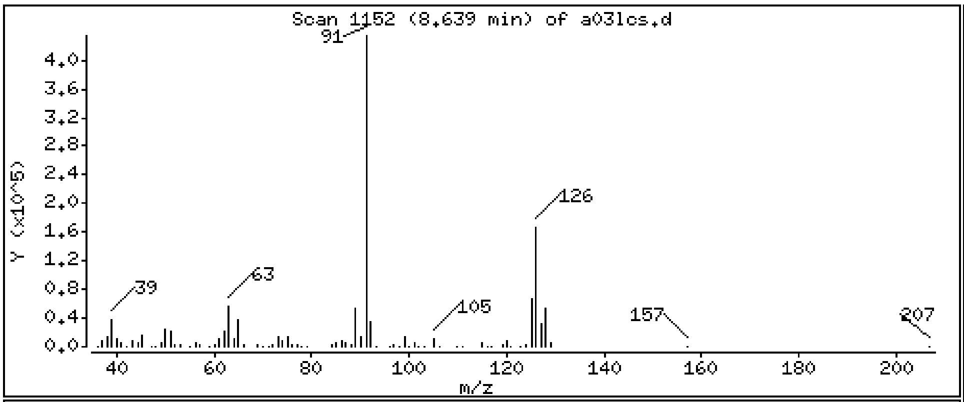
Client ID: Instrument: 50mvda.i

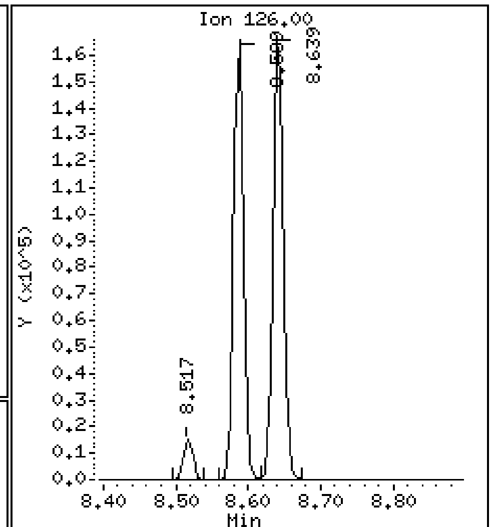
Sample Info: 3287446,336256:5

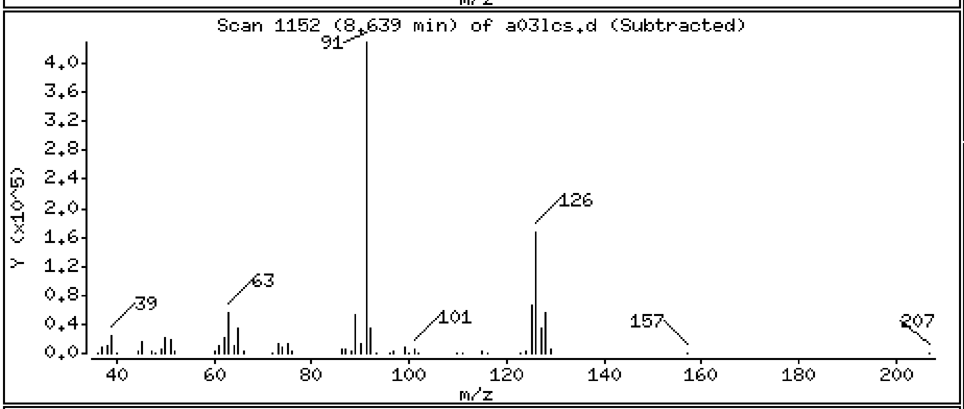
Purge Volume: 5.0 Operator: tkg

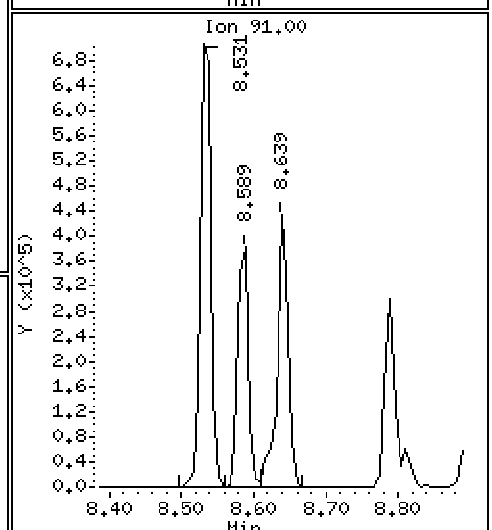
Column phase: DB-624 Column diameter: 0.18

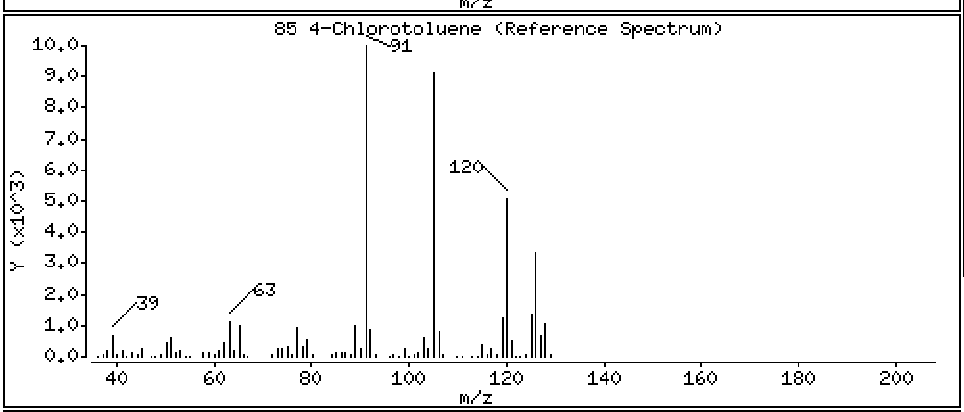
85 4-Chlorotoluene Concentration: 43.7 ppb Review Code:

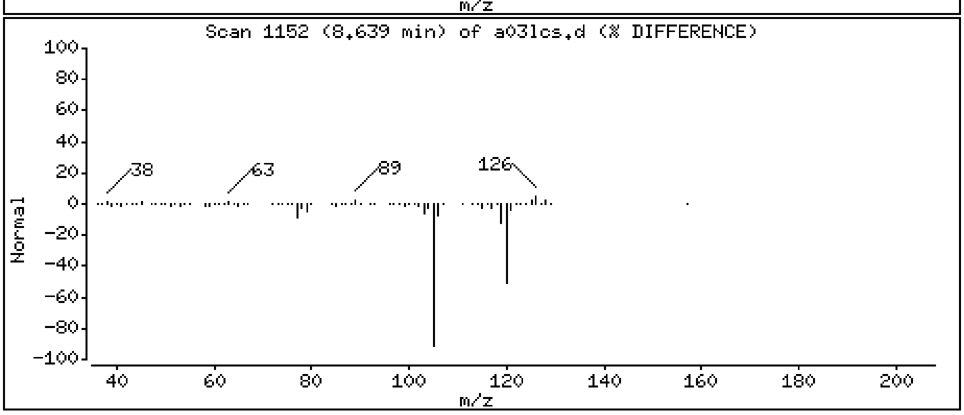












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

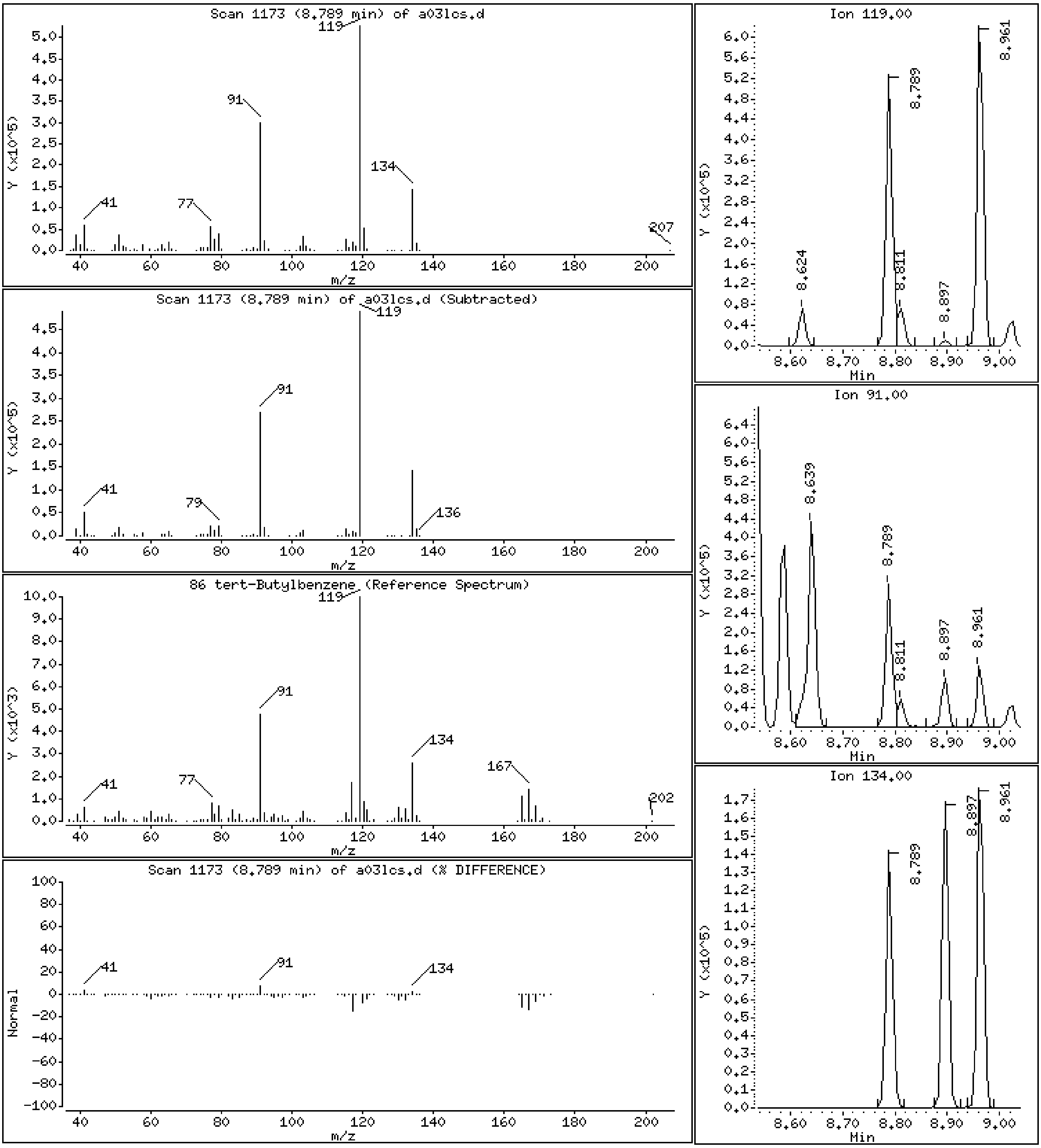
Column phase: DB-624

Column diameter: 0.18

86 tert-Butylbenzene

Concentration: 37.5 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

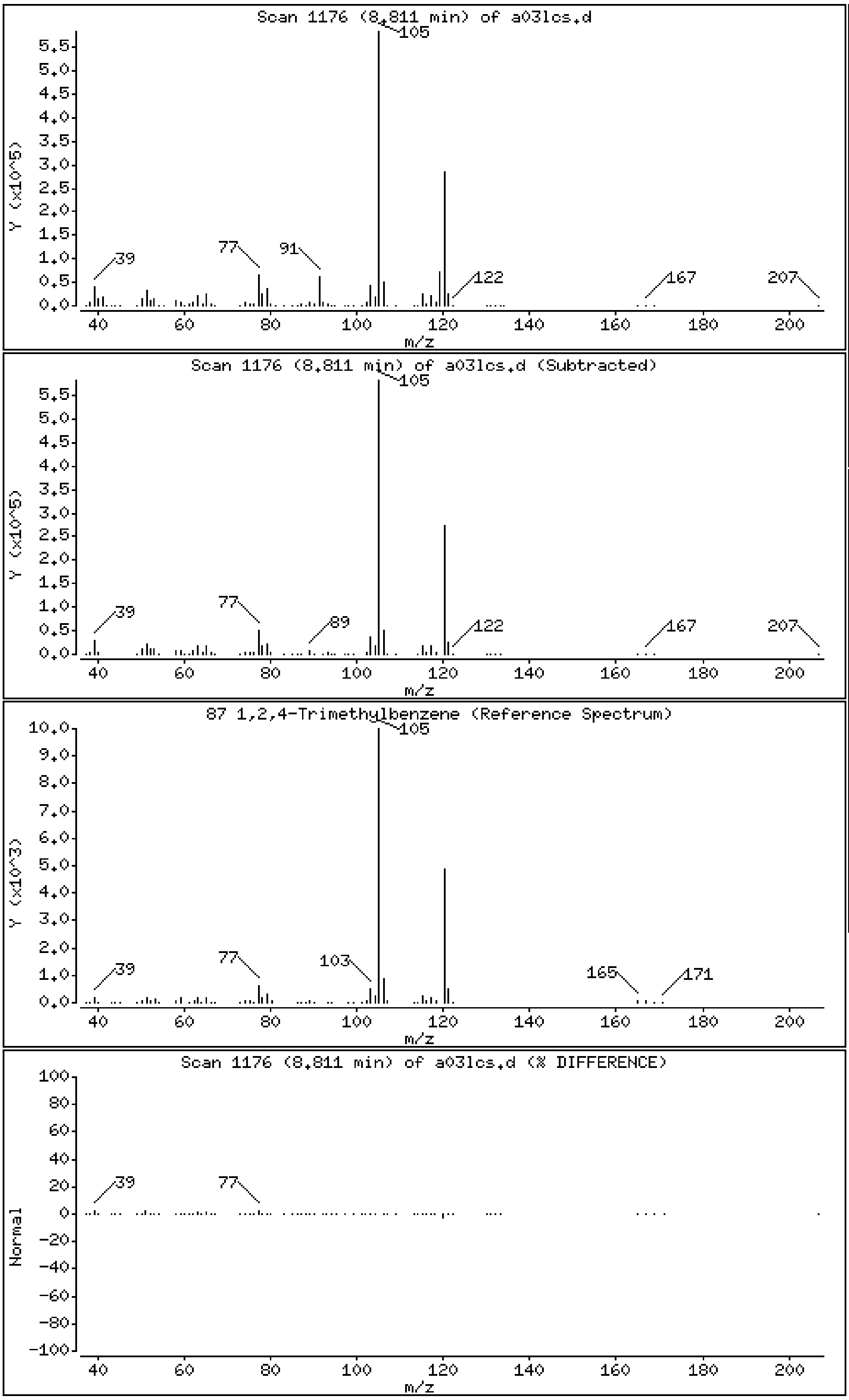
Column phase: DB-624

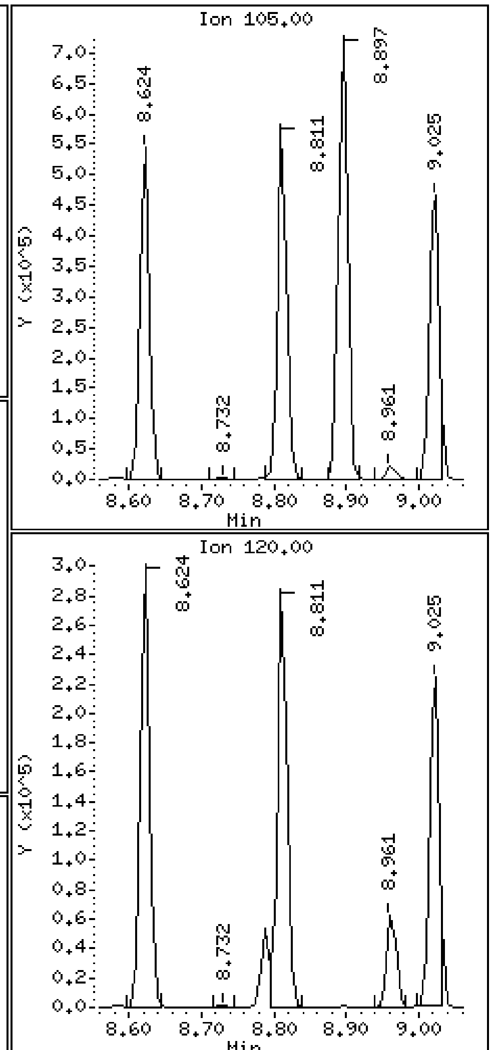
Column diameter: 0.18

87 1,2,4-Trimethylbenzene

Concentration: 40.1 ppb

Review Code:





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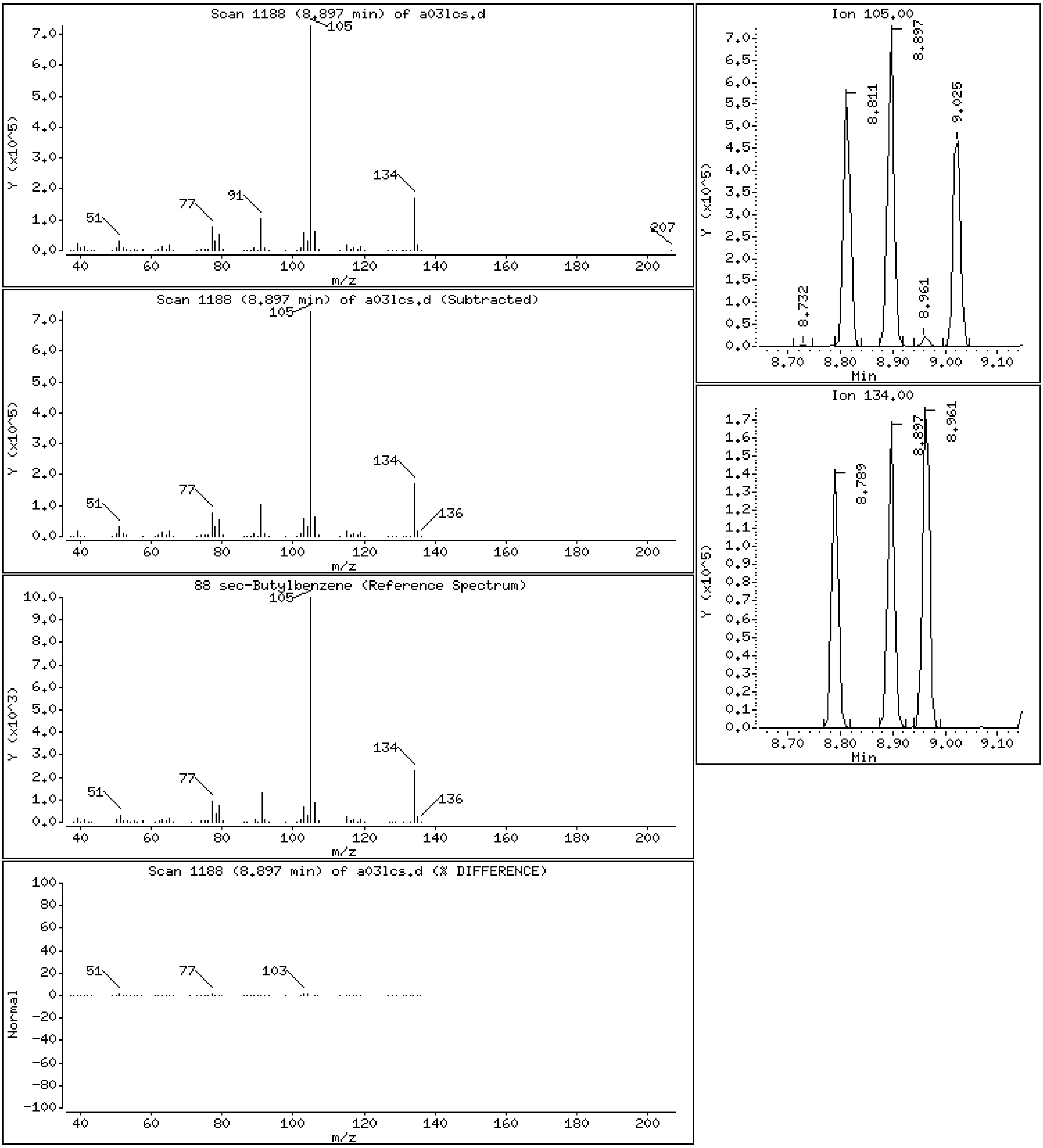
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

88 sec-Butylbenzene Concentration: 40.5 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

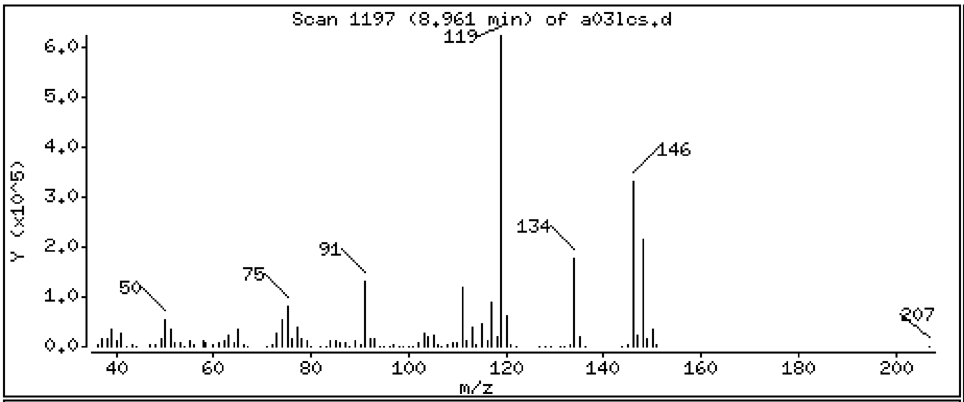
Column phase: DB-624

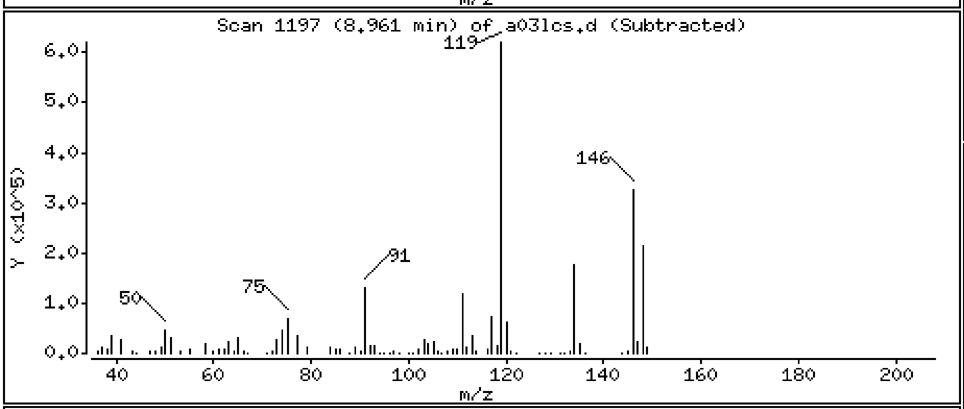
Column diameter: 0.18

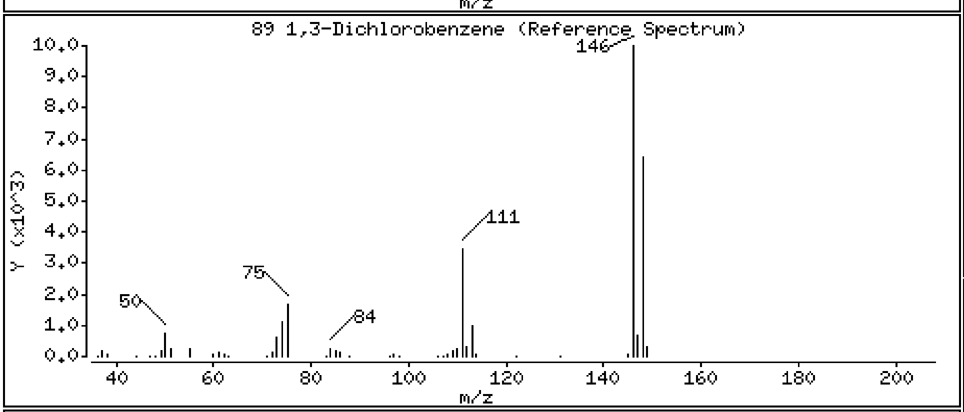
89 1,3-Dichlorobenzene

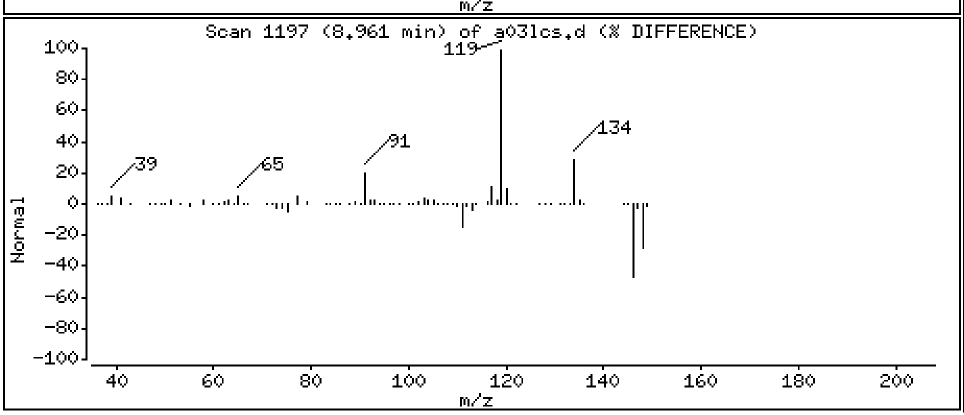
Concentration: 44.9 ppb

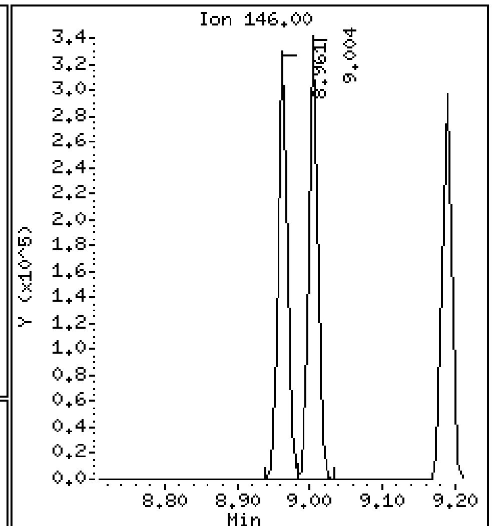
Review Code:

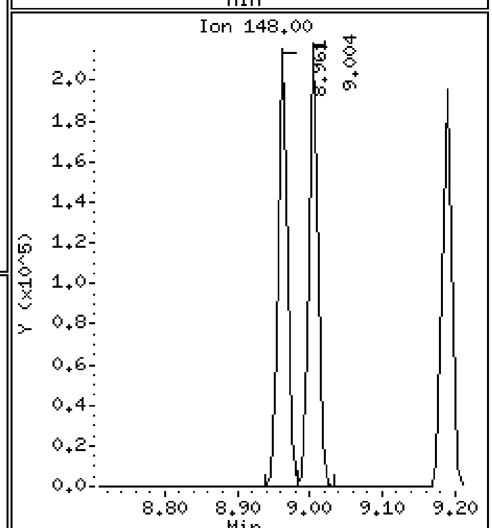


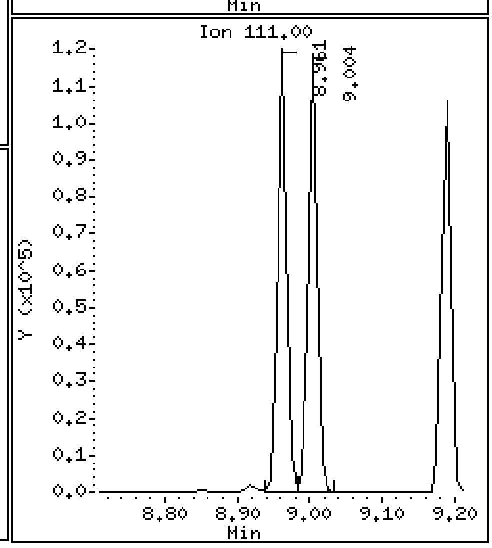












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

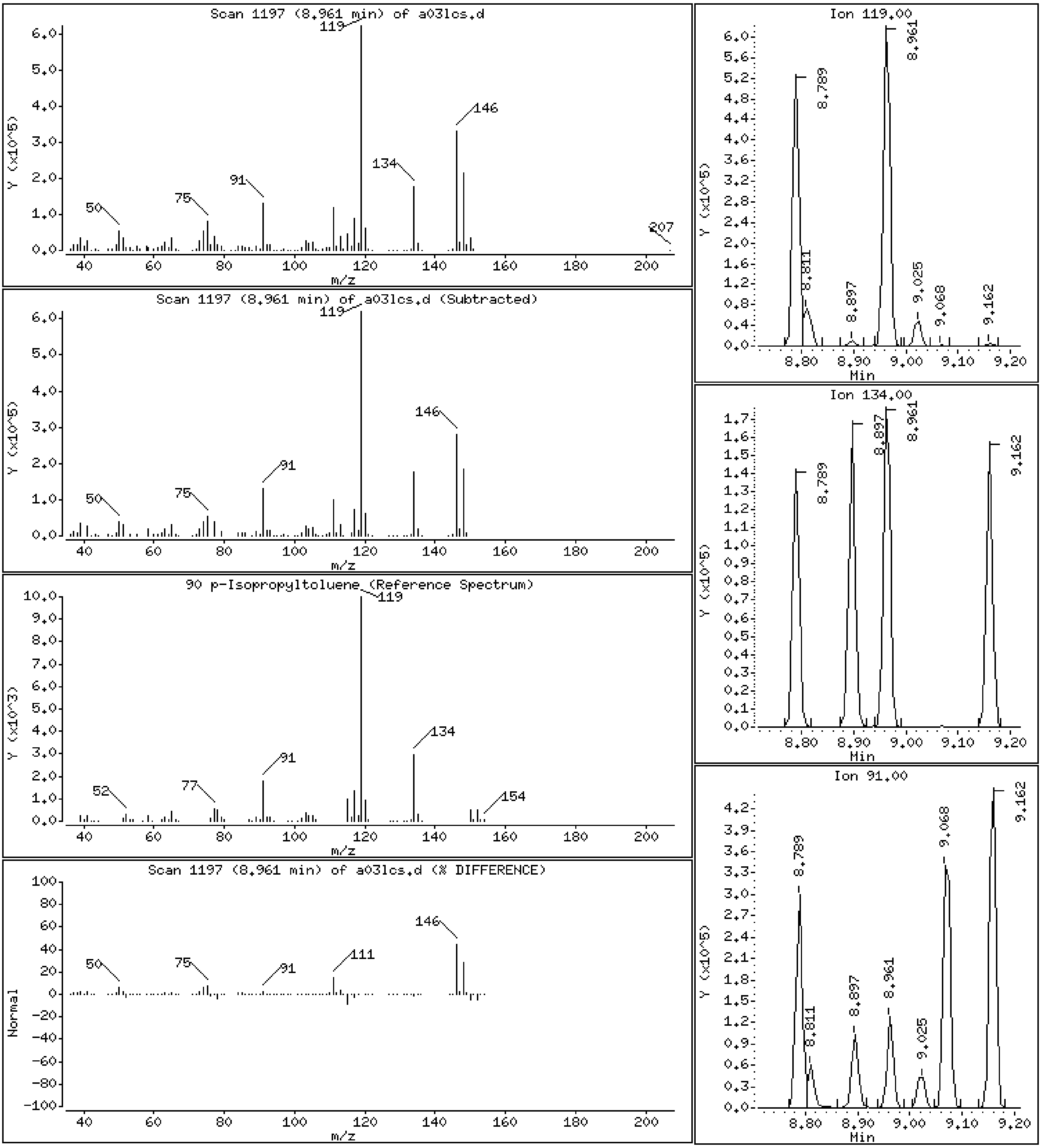
Column phase: DB-624

Column diameter: 0.18

90 p-Isopropyltoluene

Concentration: 42.6 ppb

Review Code:



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Date : 23-JAN-2023 11:36

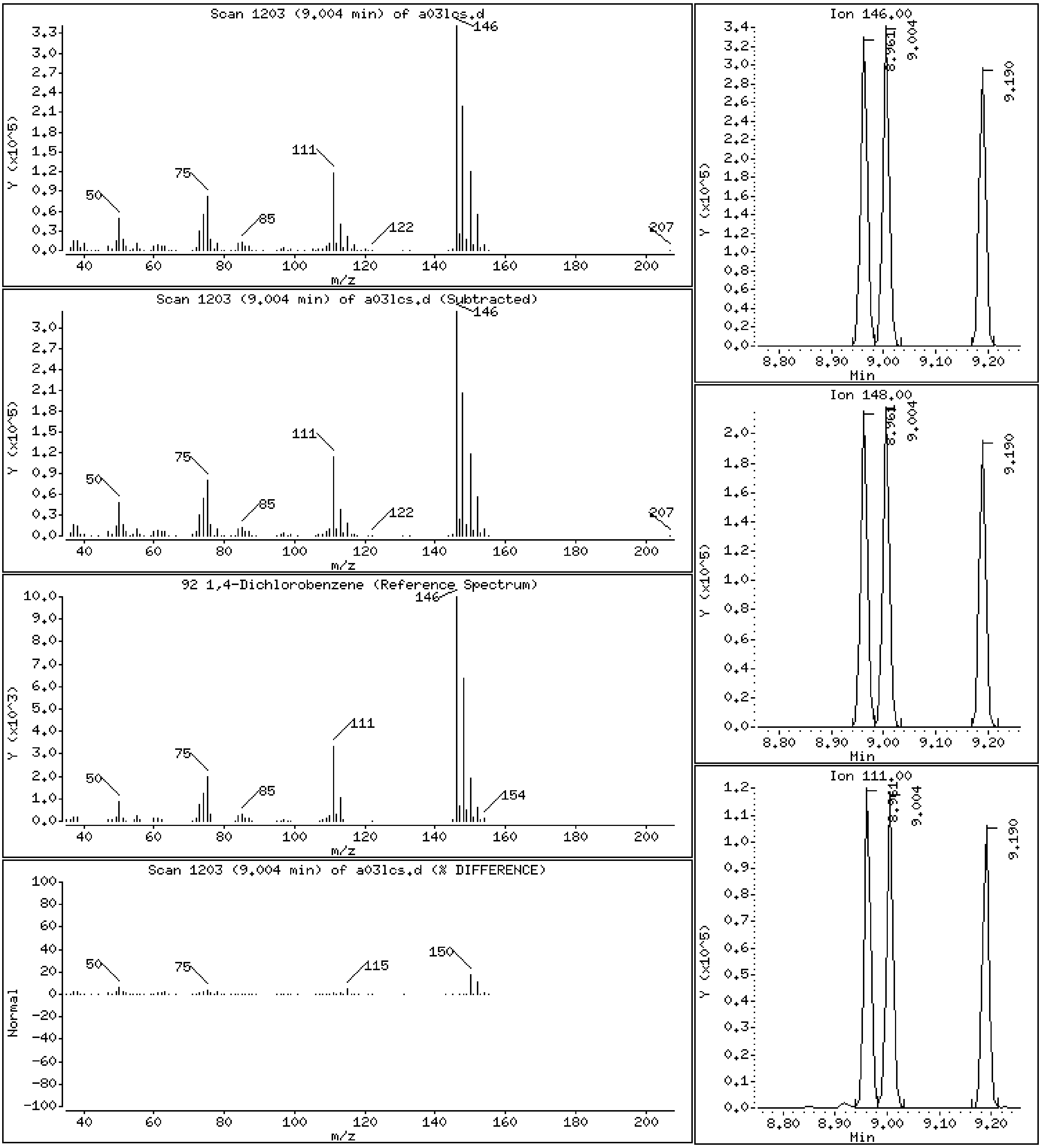
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

92 1,4-Dichlorobenzene Concentration: 44.0 ppb Review Code:



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Date : 23-JAN-2023 11:36

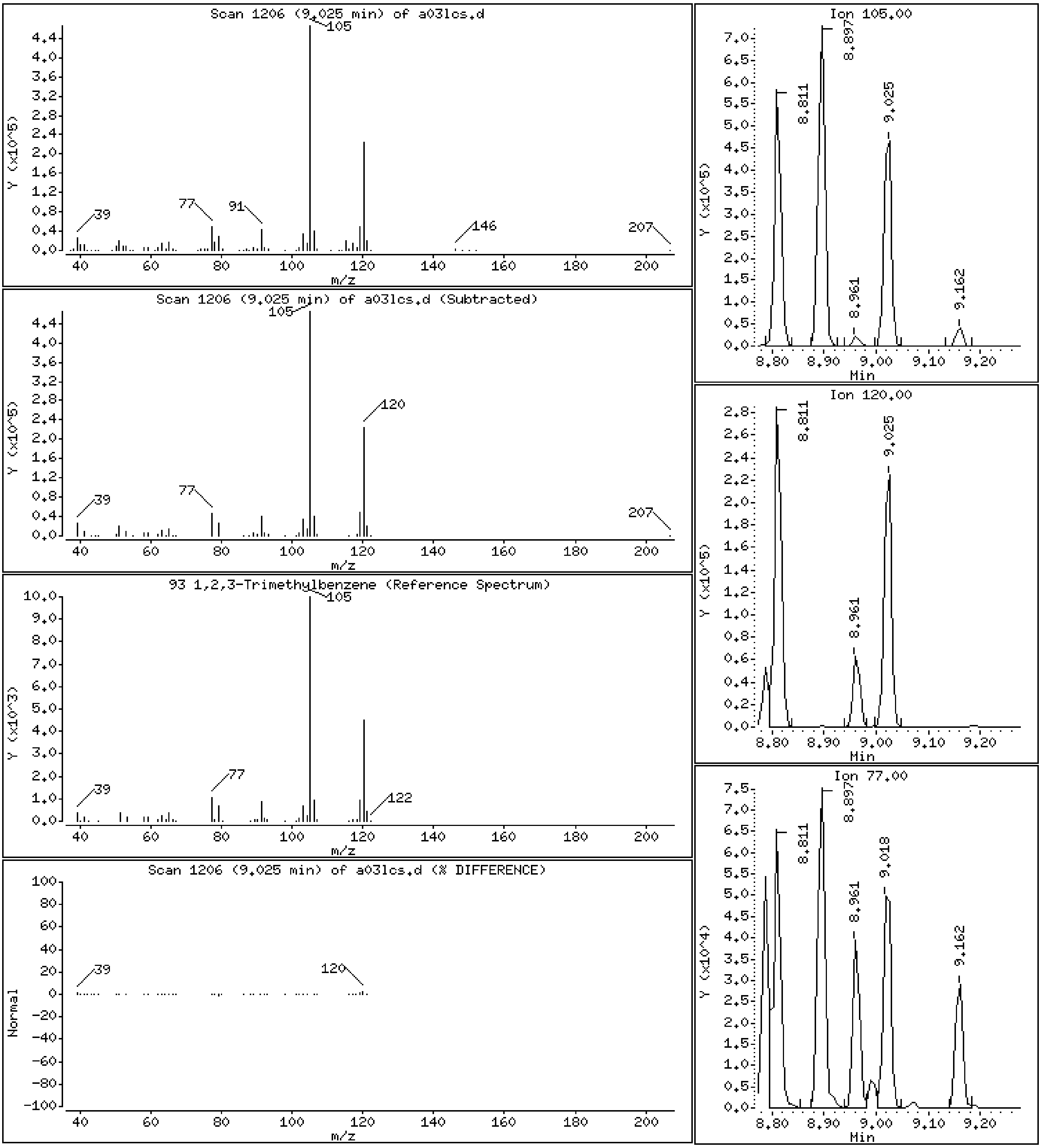
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

93 1,2,3-Trimethylbenzene Concentration: 40.4 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

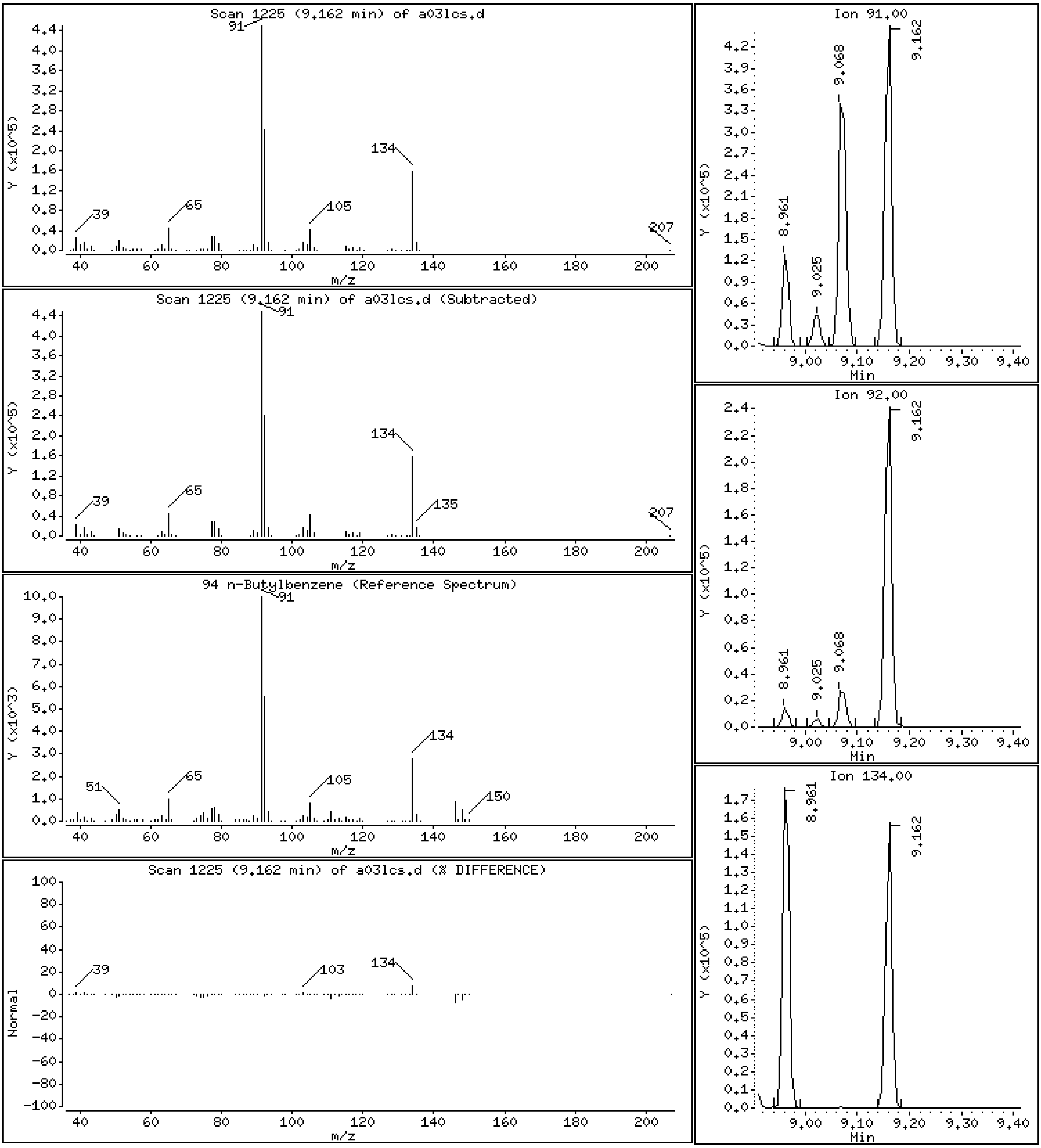
Column phase: DB-624

Column diameter: 0.18

94 n-Butylbenzene

Concentration: 38.8 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

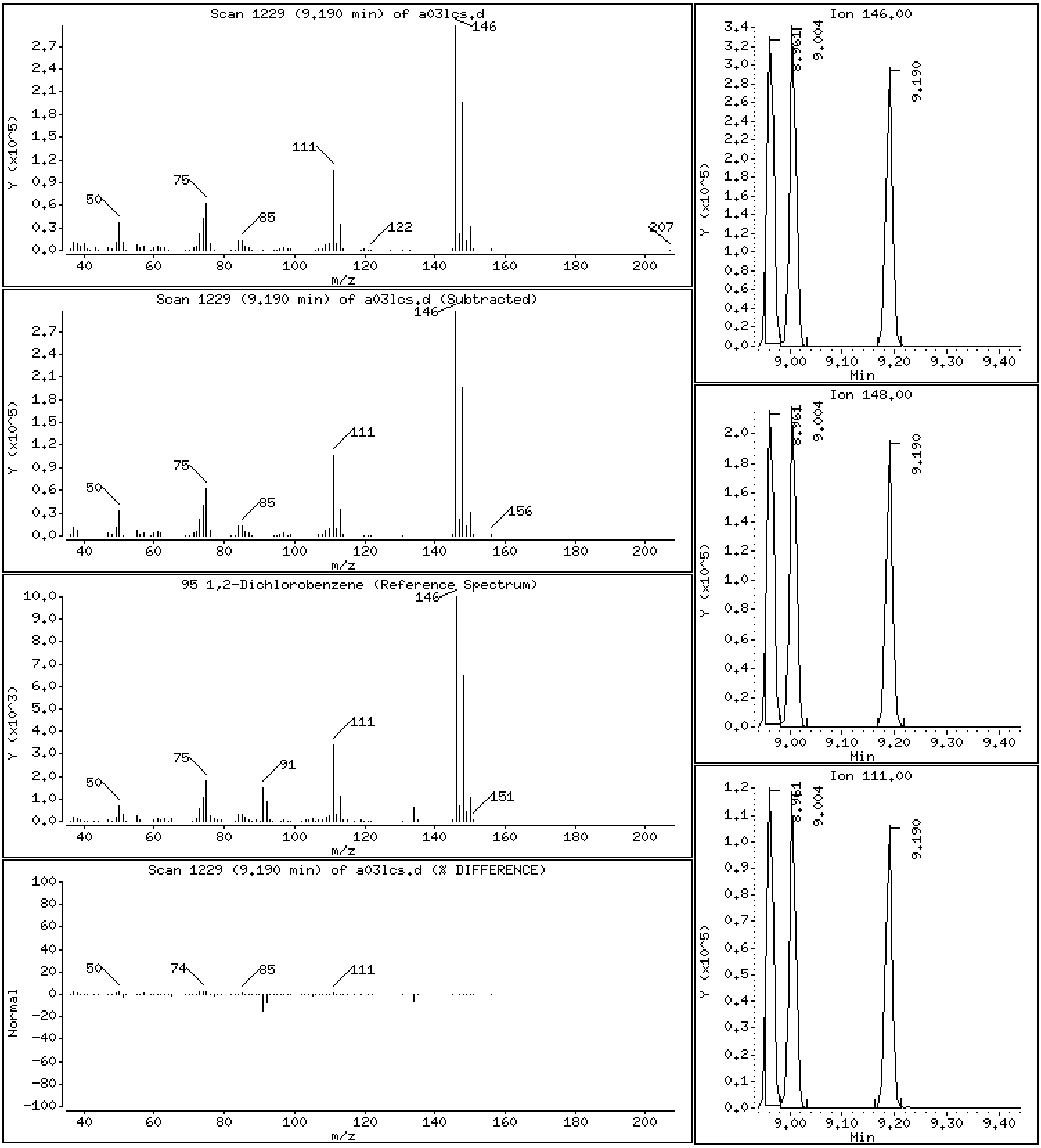
Column phase: DB-624

Column diameter: 0.18

95 1,2-Dichlorobenzene

Concentration: 45.3 ppb

Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

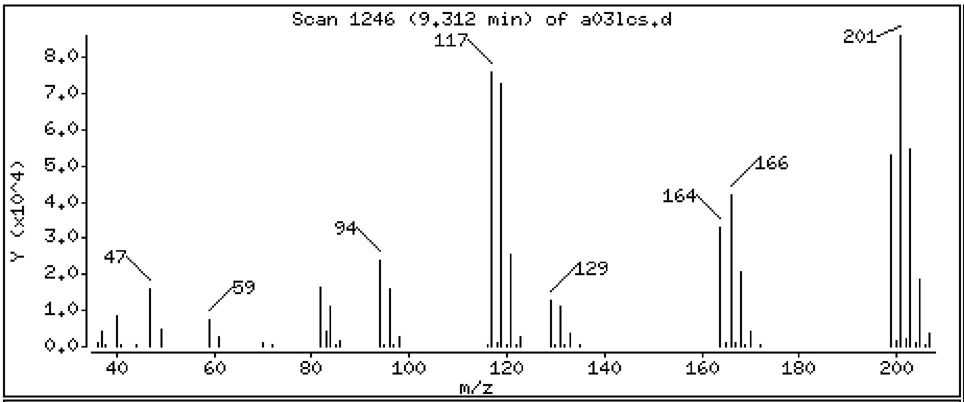
Column phase: DB-624

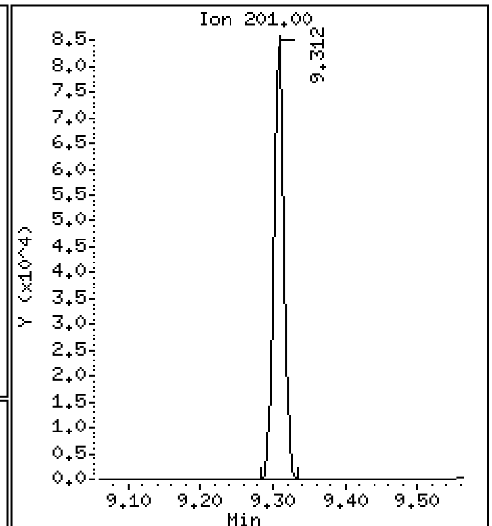
Column diameter: 0.18

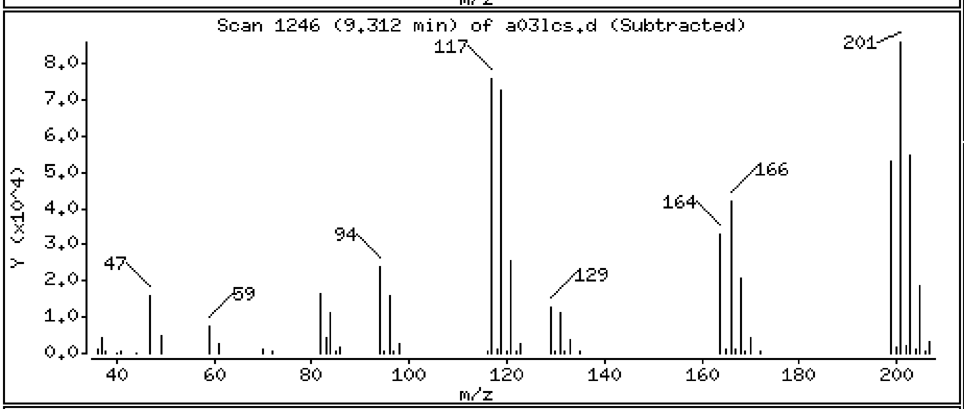
96 Hexachloroethane

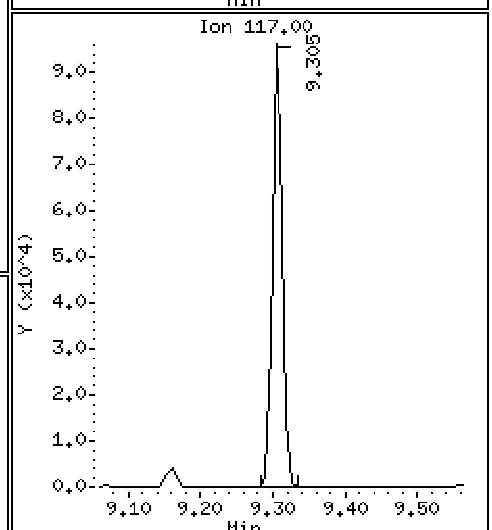
Concentration: 54.1 ppb

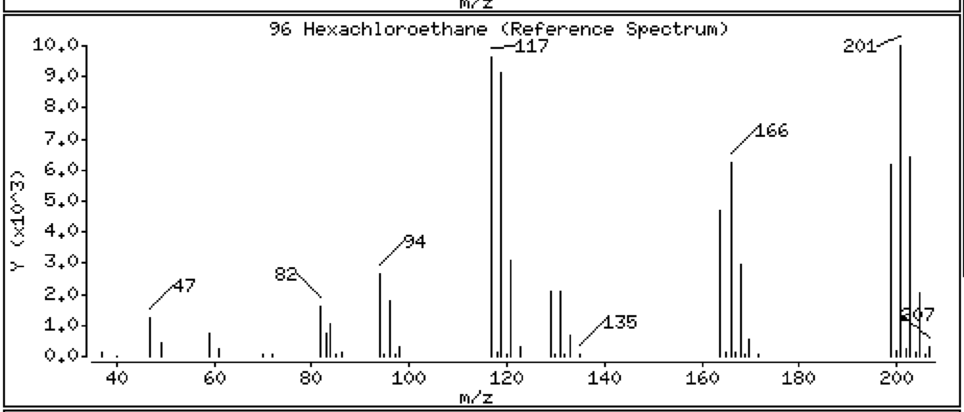
Review Code:

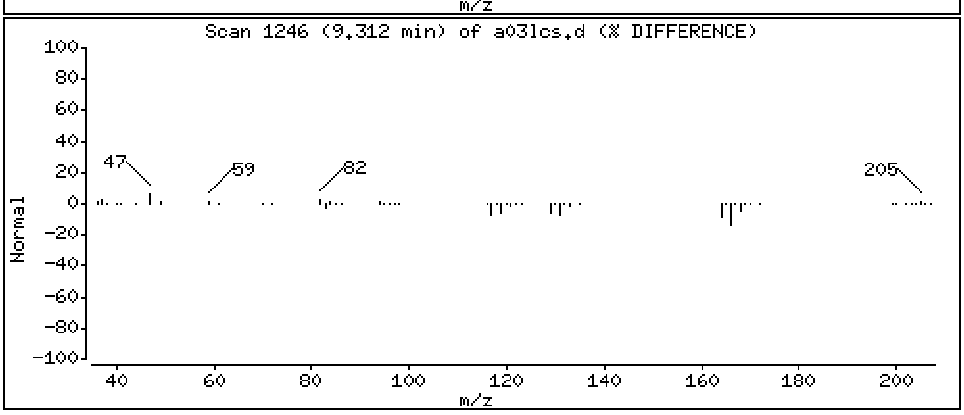












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

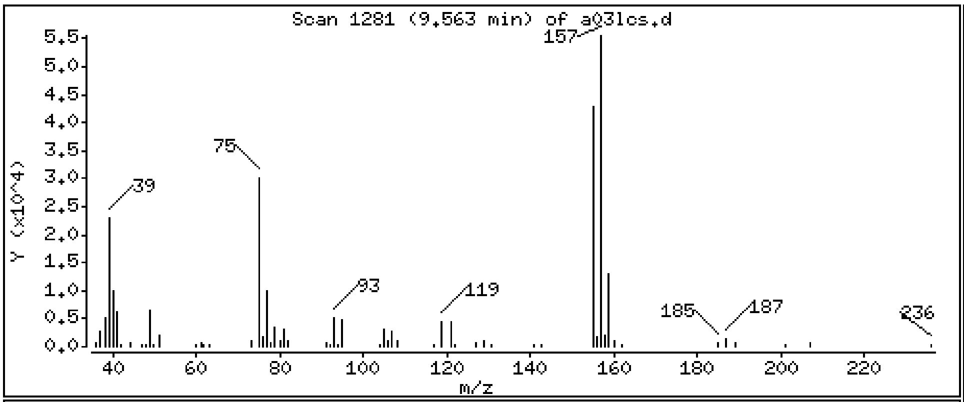
Column phase: DB-624

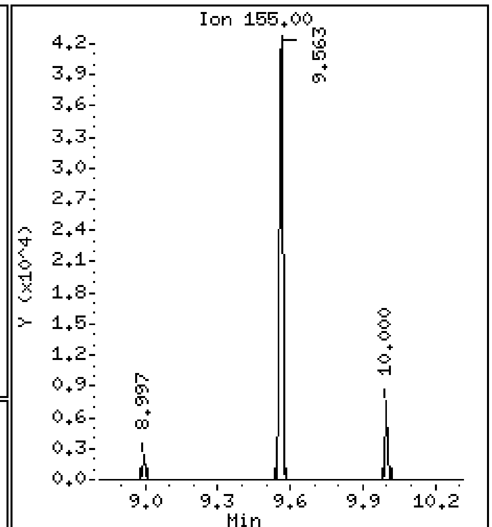
Column diameter: 0.18

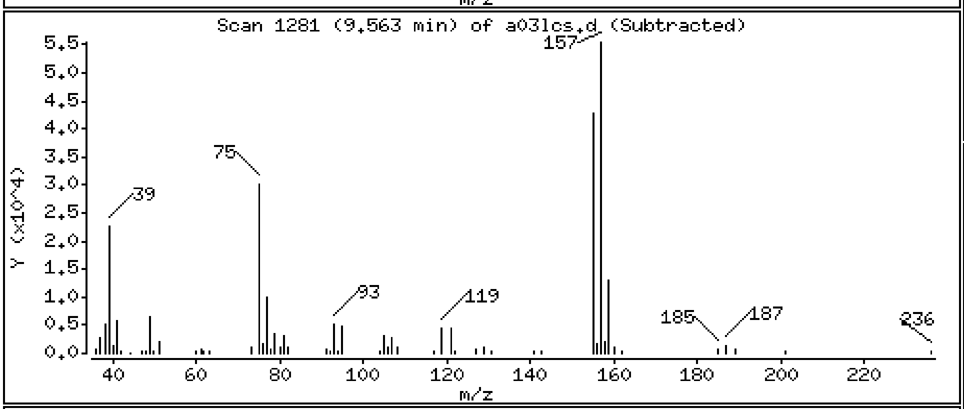
97 1,2-Dibromo-3-chloropropane

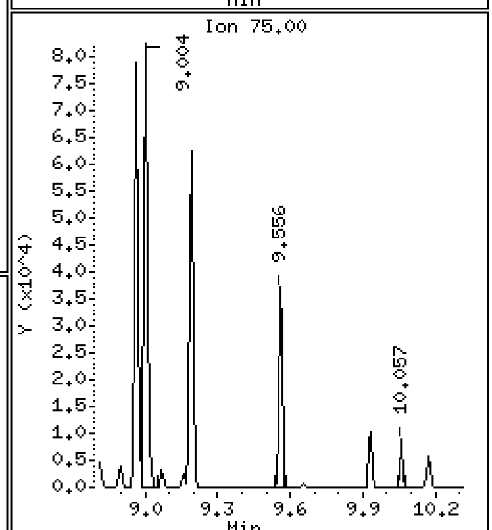
Concentration: 51.2 ppb

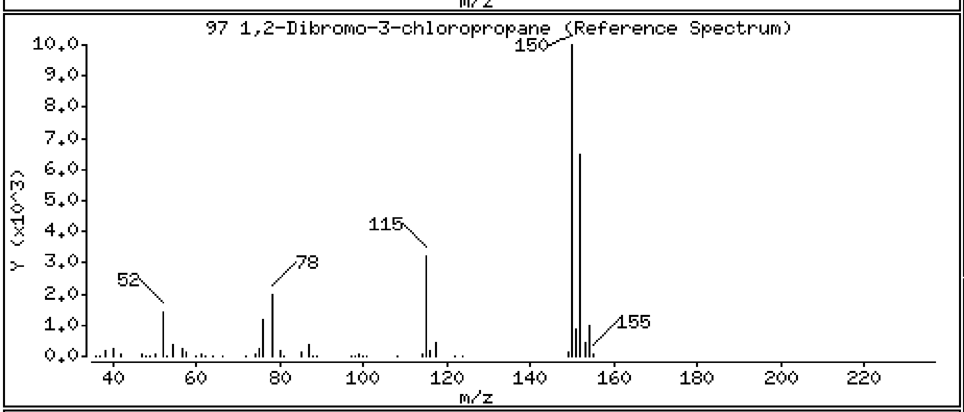
Review Code:

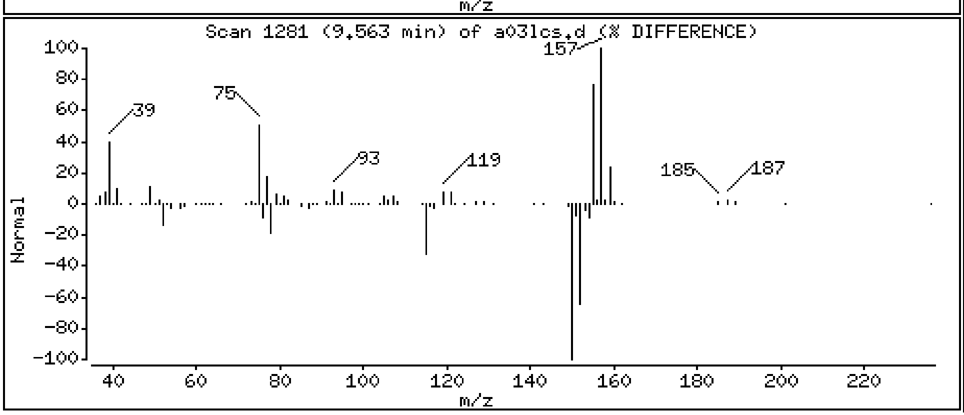


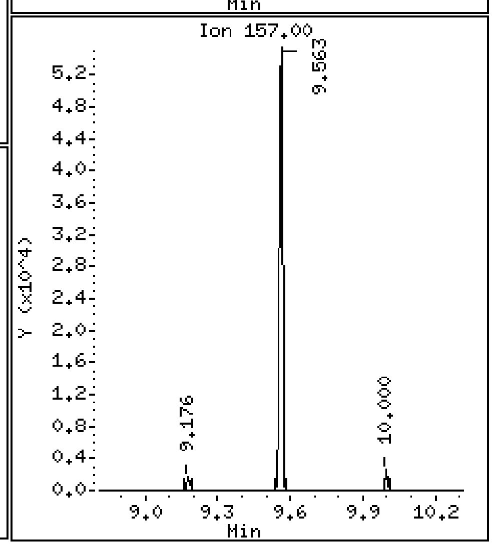












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Date : 23-JAN-2023 11:36

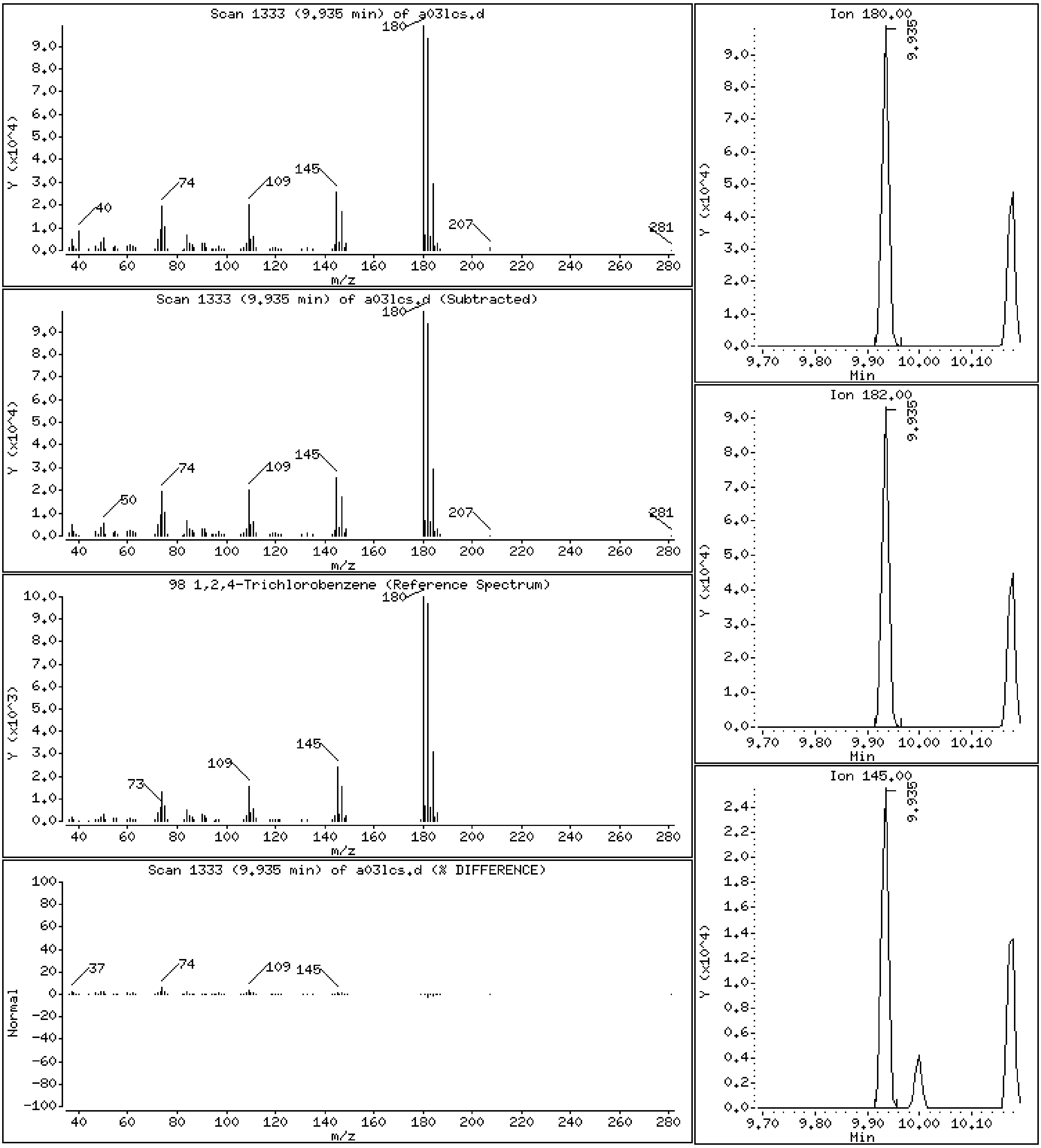
Client ID: Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

98 1,2,4-Trichlorobenzene Concentration: 45.8 ppb Review Code:



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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

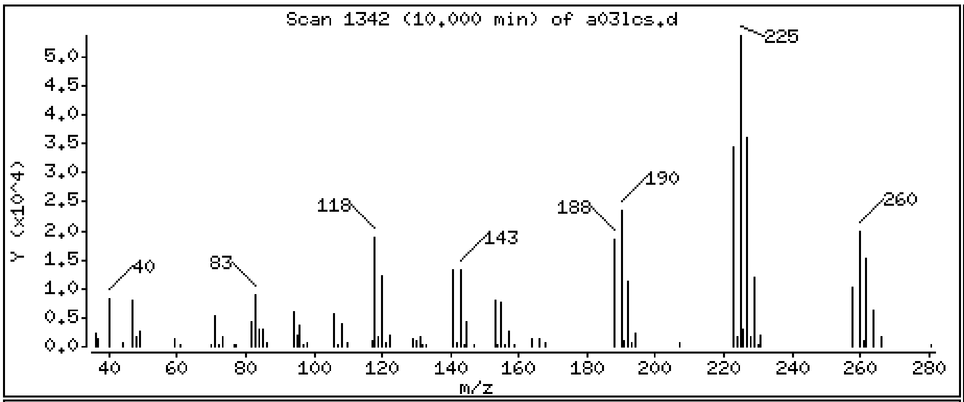
Column phase: DB-624

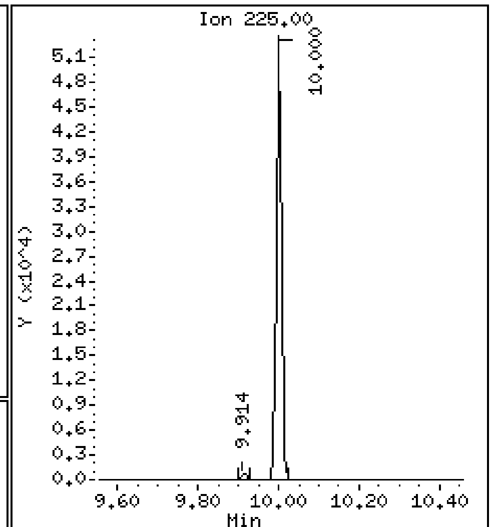
Column diameter: 0.18

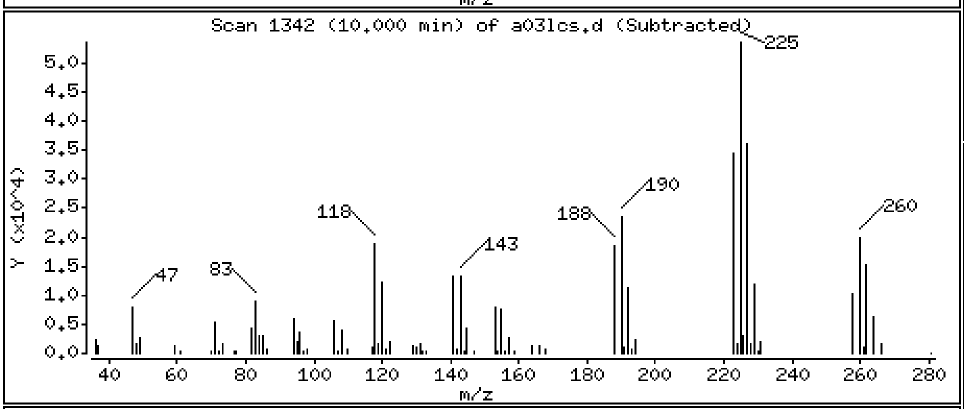
99 Hexachlorobutadiene

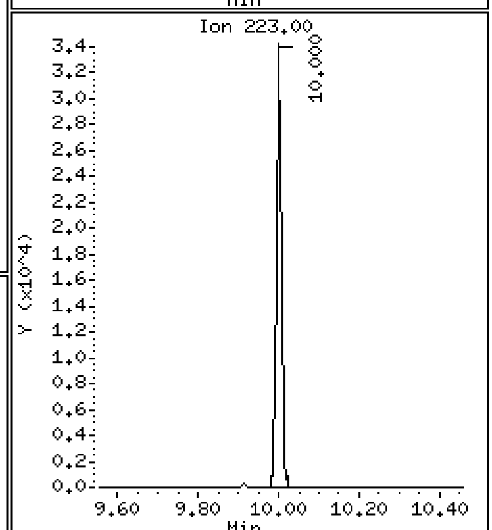
Concentration: 52.5 ppb

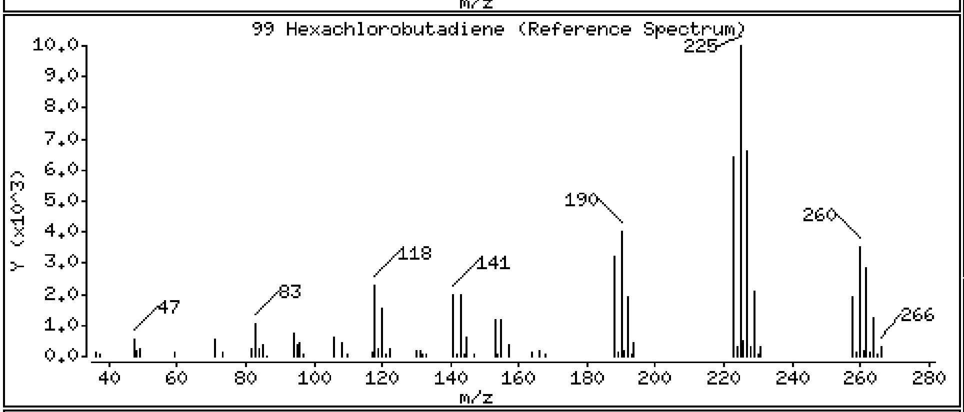
Review Code:

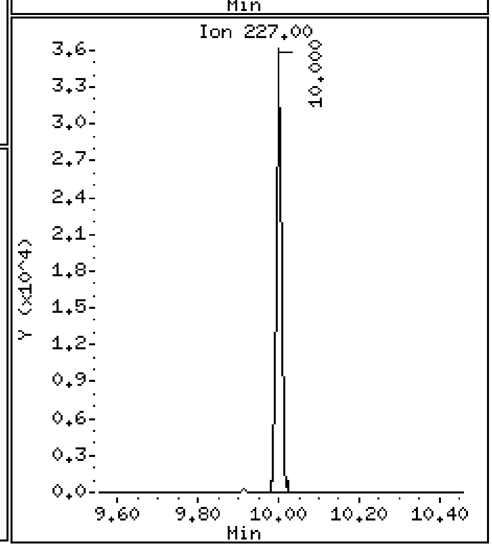


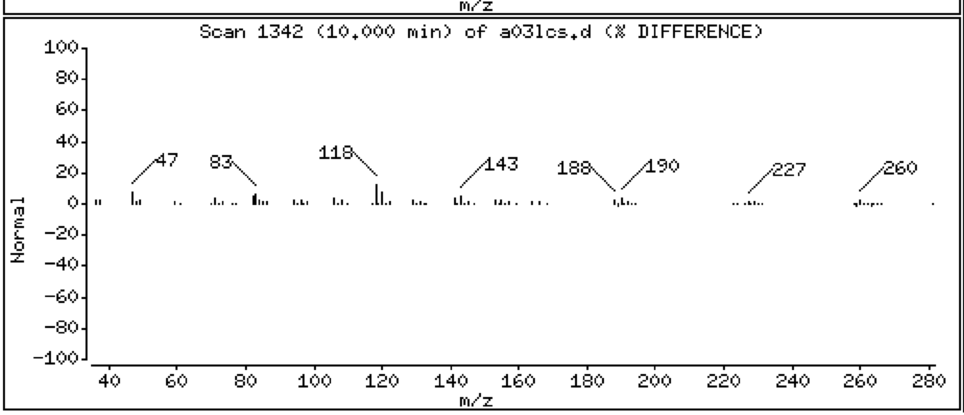












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Date : 23-JAN-2023 11:36

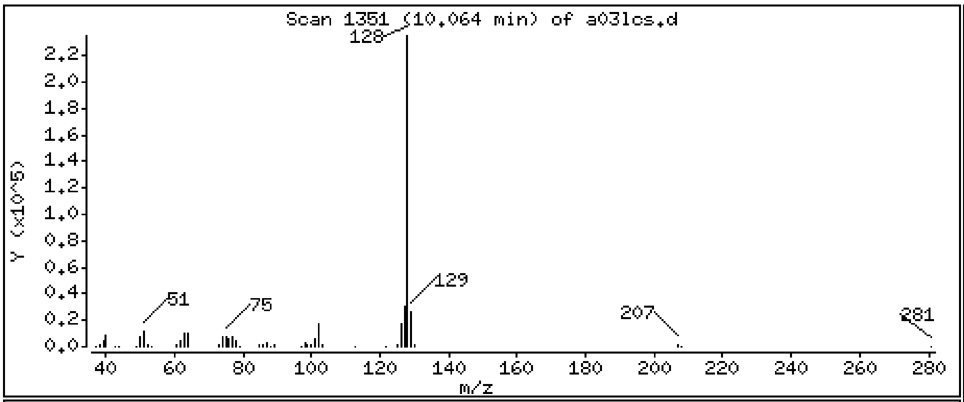
Client ID: Instrument: 50mvda.i

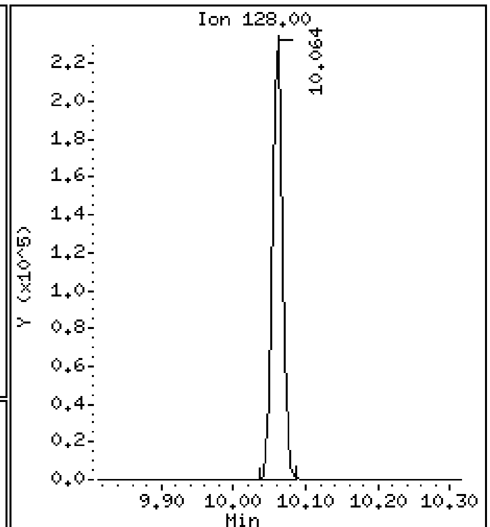
Sample Info: 3287446,336256:5

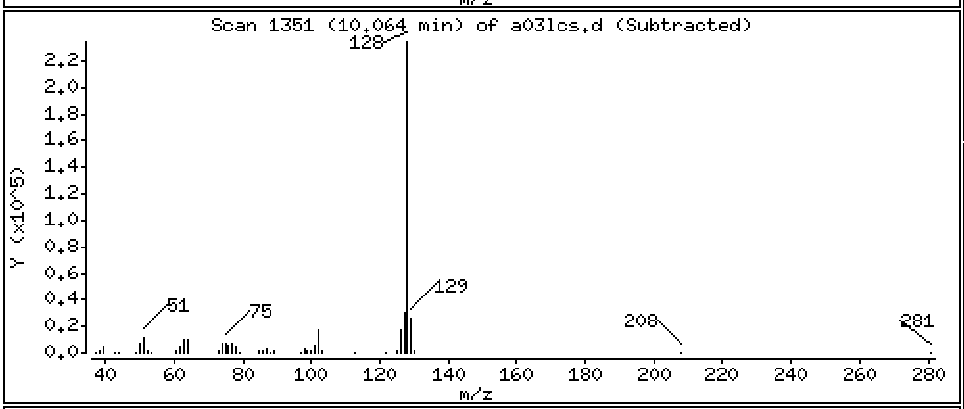
Purge Volume: 5.0 Operator: tkg

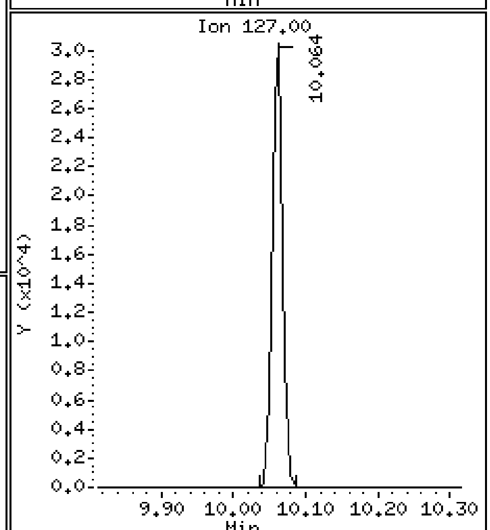
Column phase: DB-624 Column diameter: 0.18

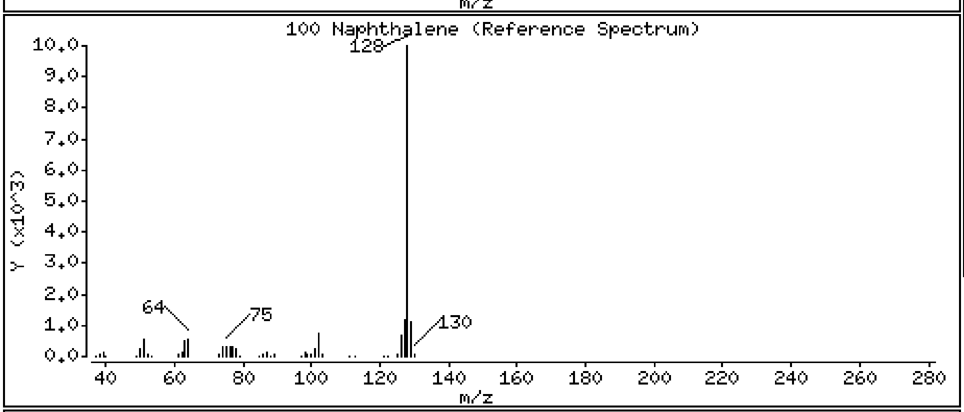
100 Naphthalene Concentration: 42.6 ppb Review Code:

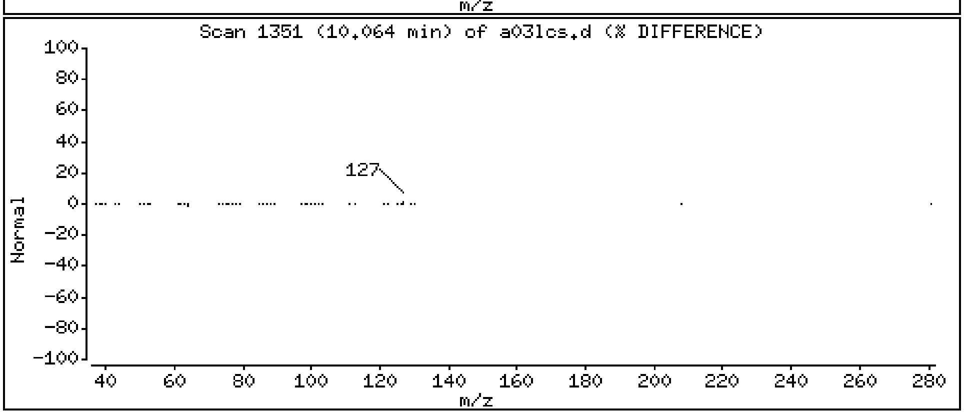












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

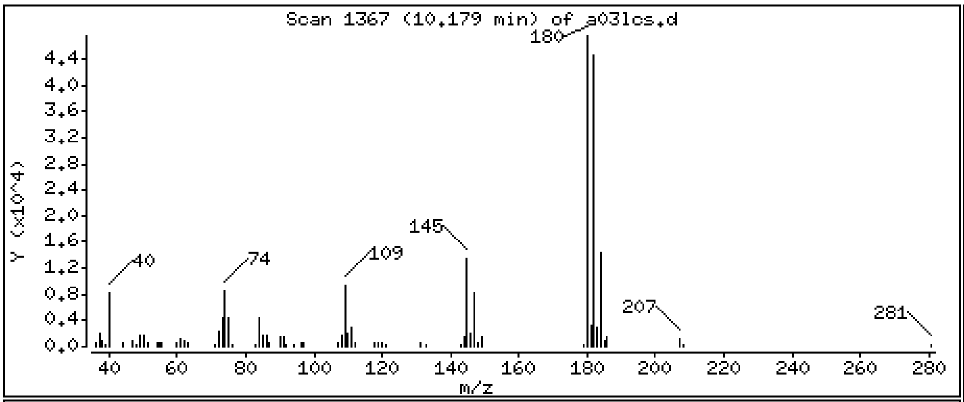
Column phase: DB-624

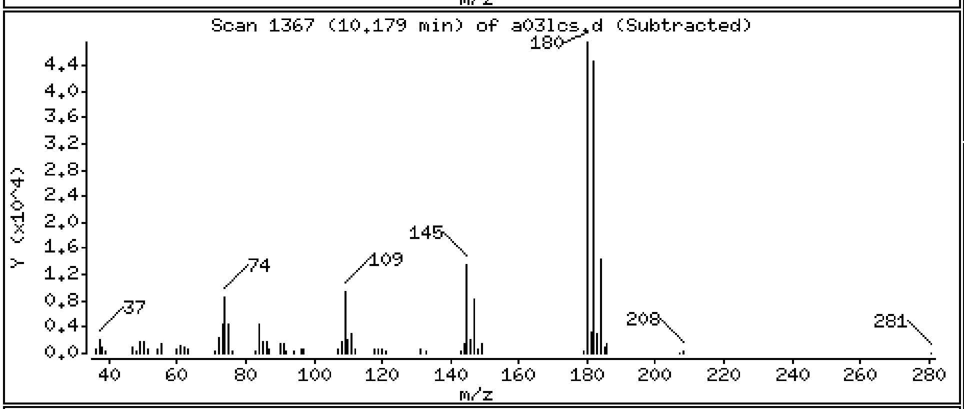
Column diameter: 0.18

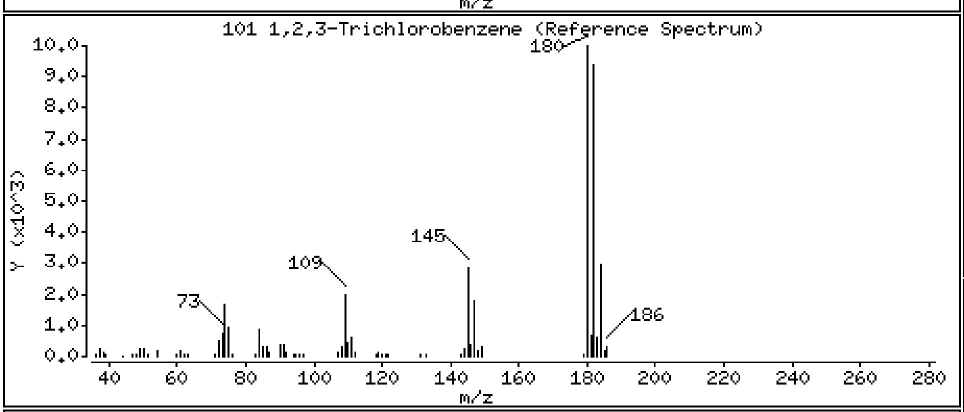
101 1,2,3-Trichlorobenzene

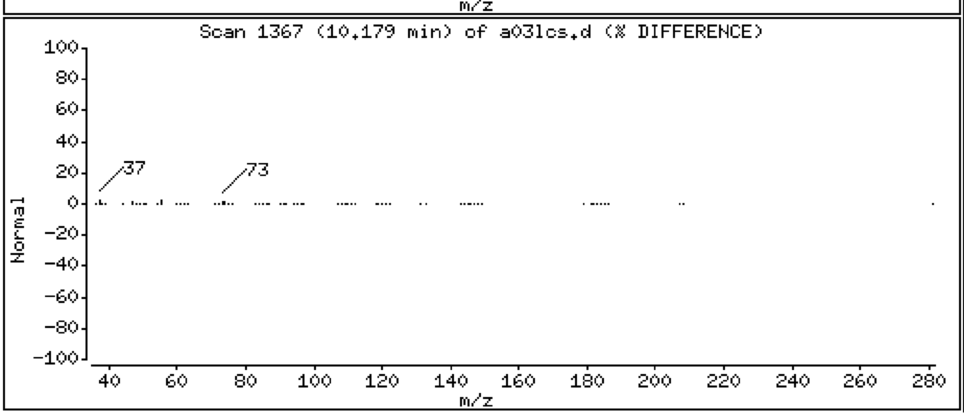
Concentration: 47.4 ppb

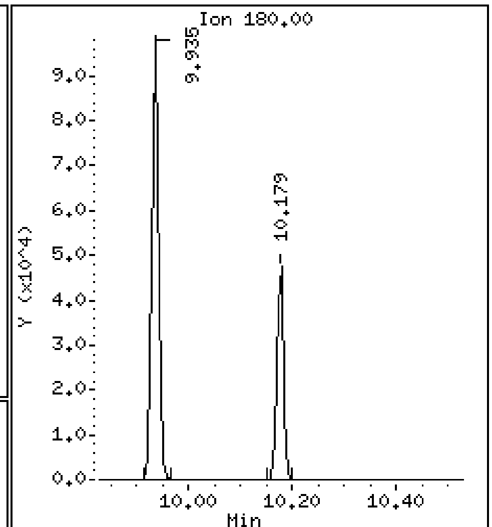
Review Code:

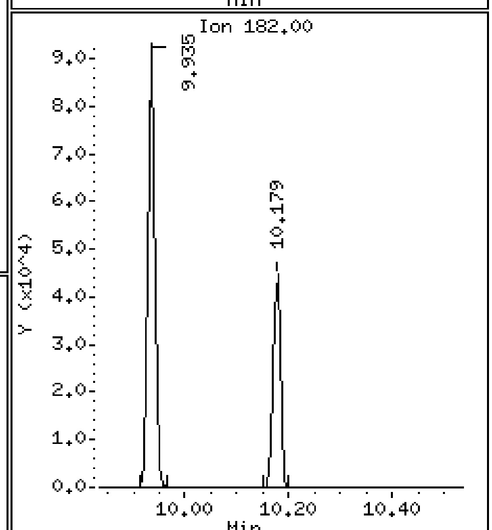


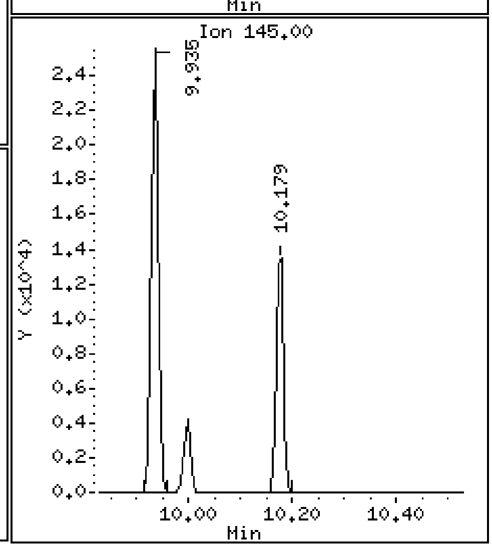












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

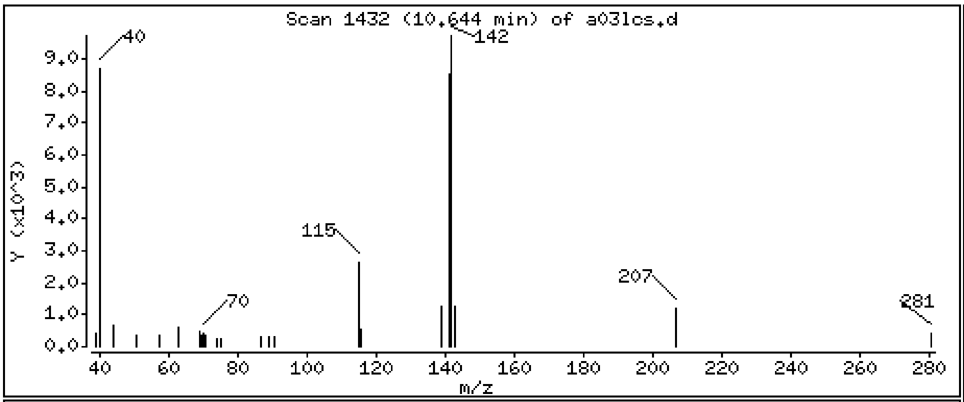
Column phase: DB-624

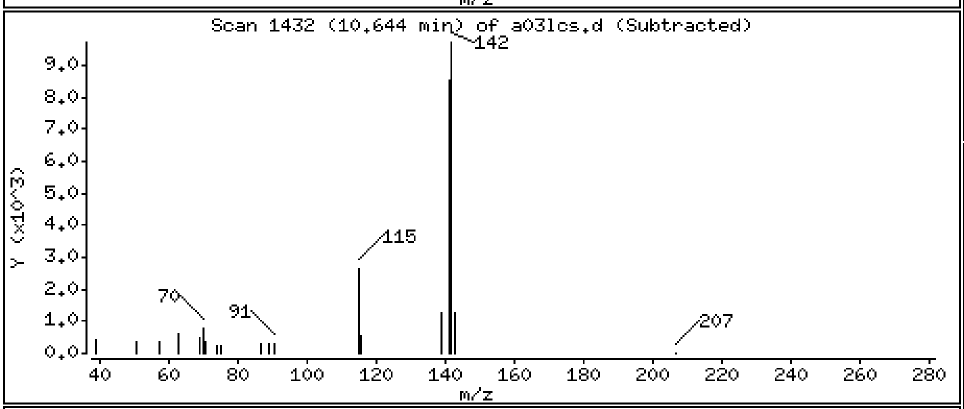
Column diameter: 0.18

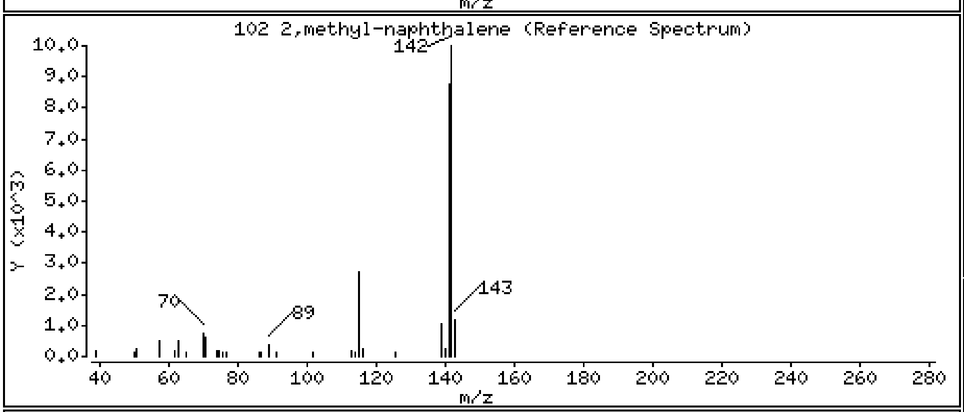
102 2,methyl-naphthalene

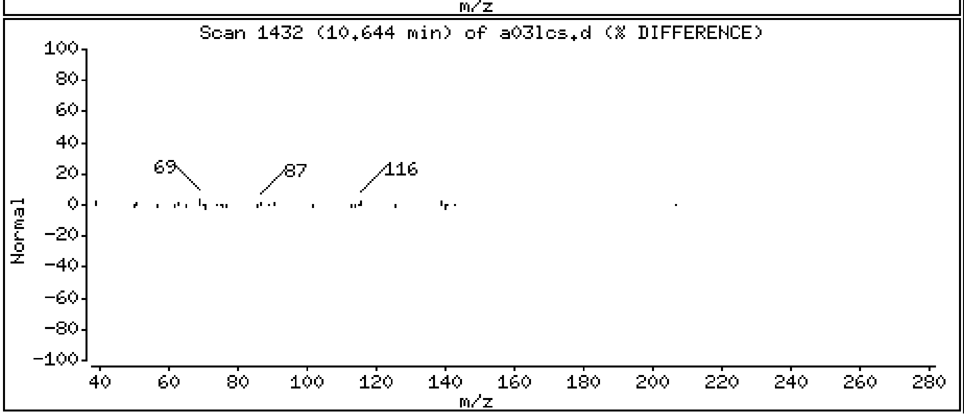
Concentration: 40.4 ppb

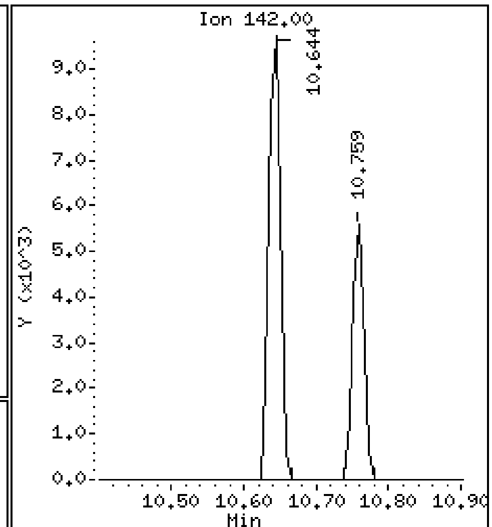
Review Code:

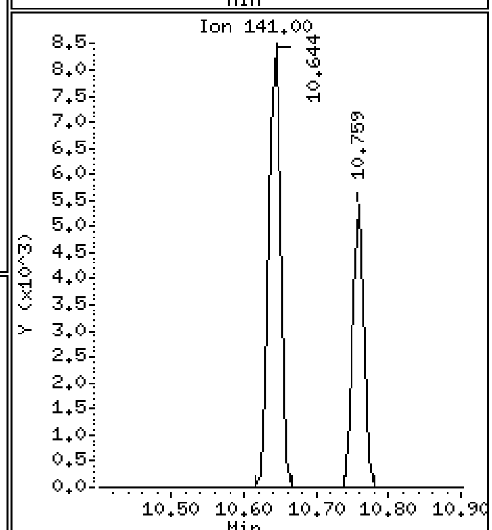


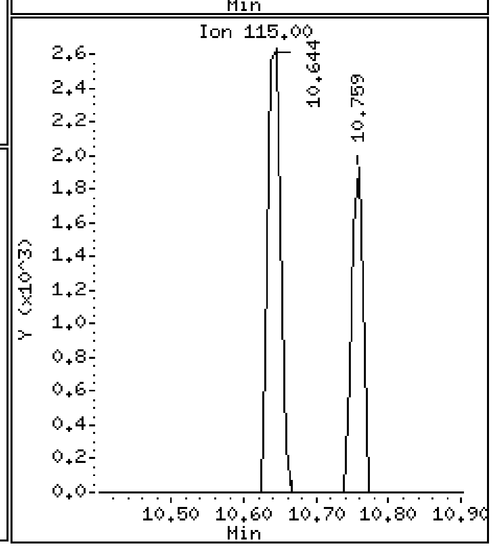












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

Purge Volume: 5.0

Operator: tkg

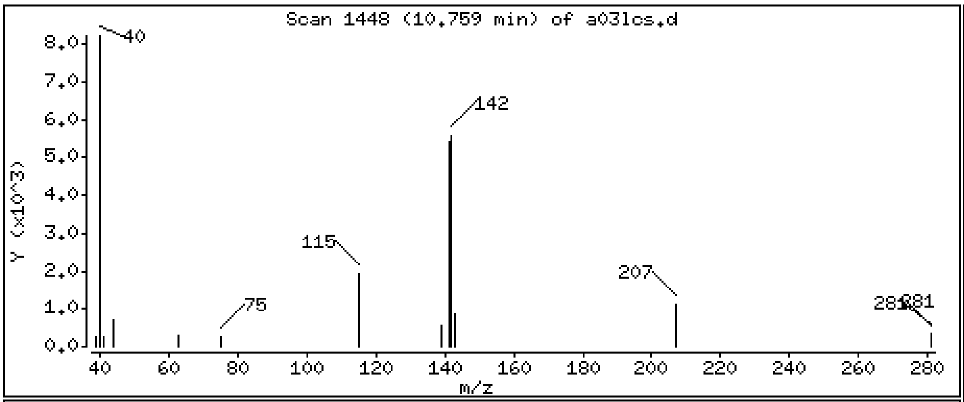
Column phase: DB-624

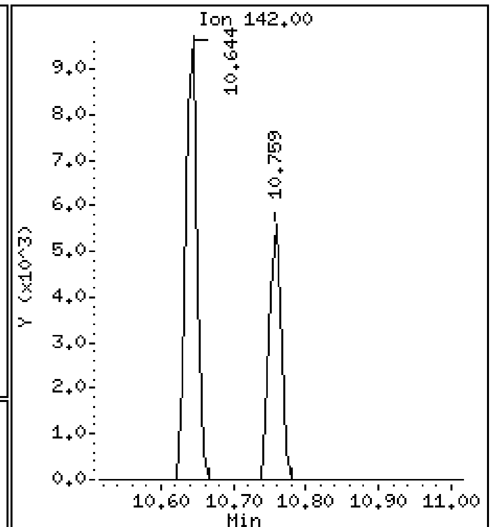
Column diameter: 0.18

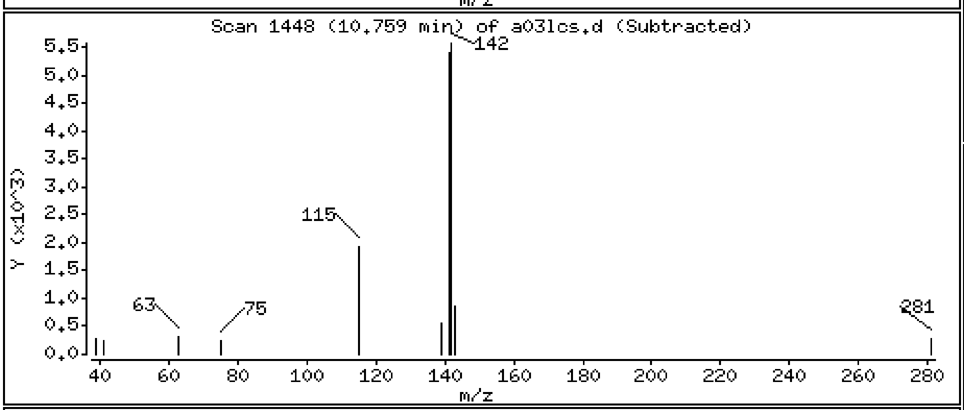
103 1-Methylnaphthalene

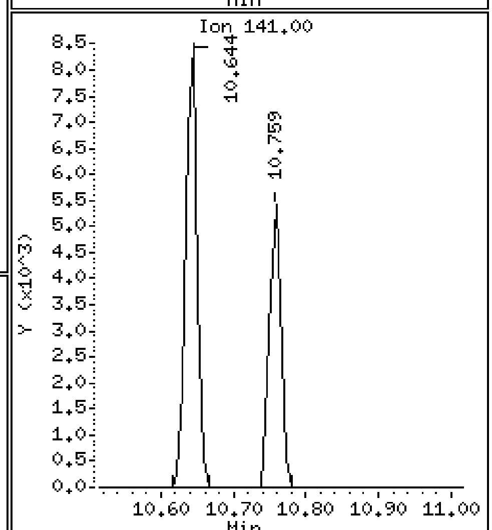
Concentration: 43.7 ppb

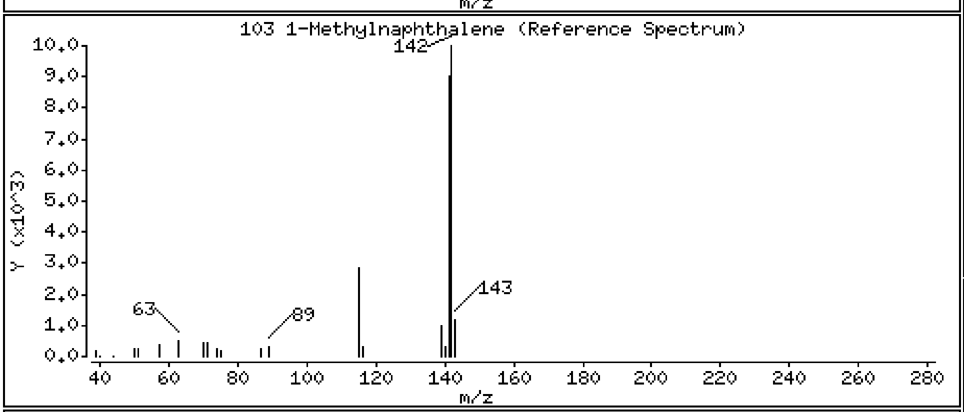
Review Code:

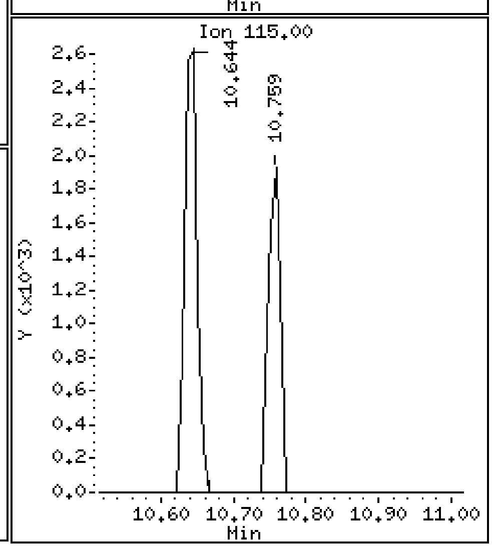


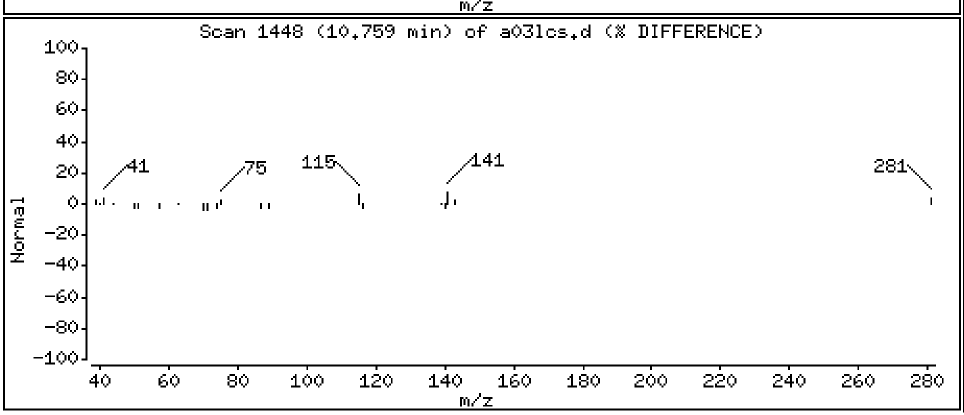












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Date : 23-JAN-2023 11:36

Client ID:

Instrument: 50mvda.i

Sample Info: 3287446,336256:5

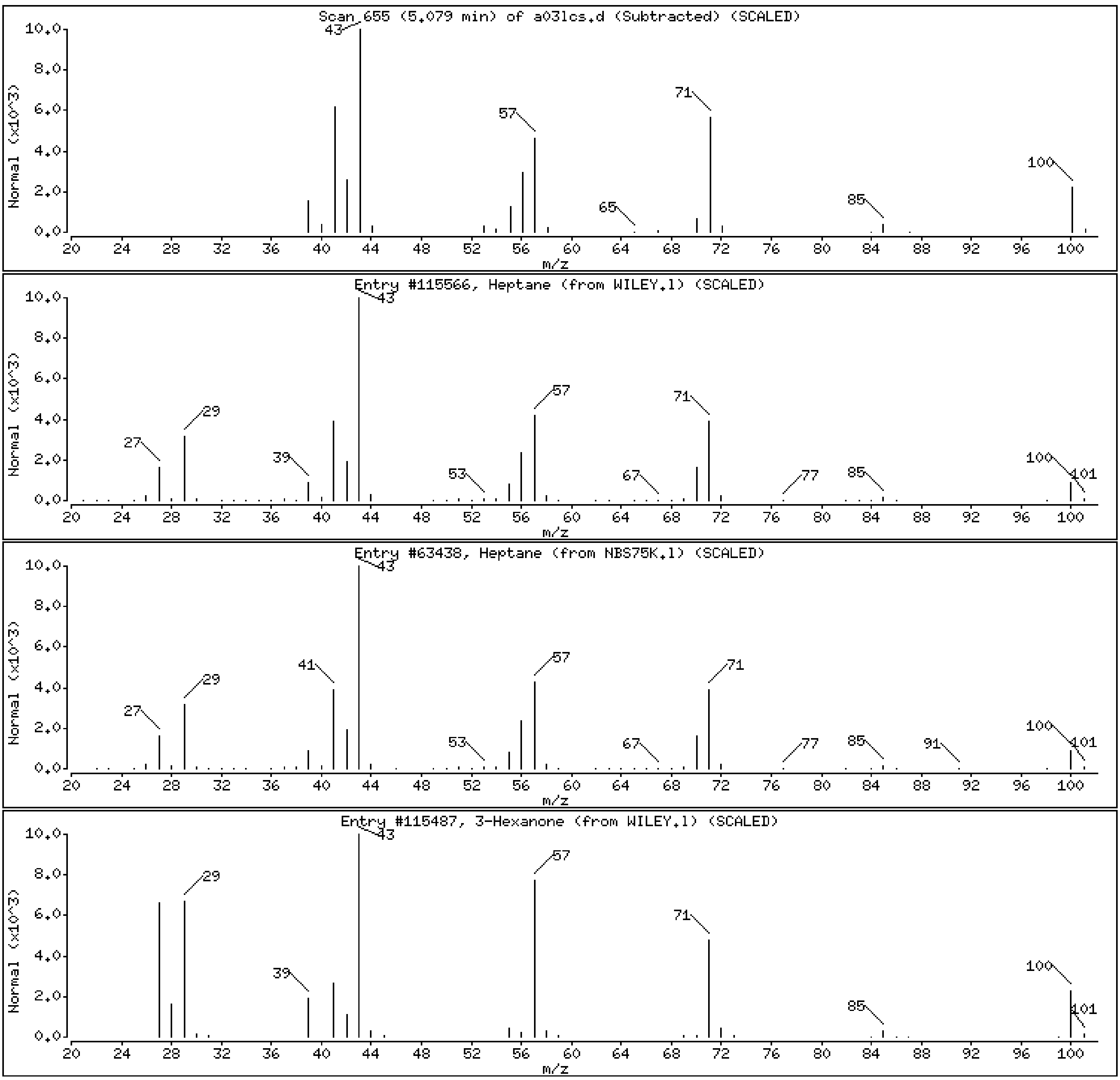
Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane	142-82-5	WILEY.l	115566	91	C7H16	100
Heptane	142-82-5	NBS75K.l	63438	91	C7H16	100
3-Hexanone	589-38-8	WILEY.l	115487	52	C6H12O	100



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Injection Date: 23-JAN-2023 11:36
Instrument: 50mvda.i
Lab Sample ID: 3287446
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: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 19:36
Lab Sample ID: 3287469
Date Analyzed: 01/23/2023 19:36
Lab File ID: A012323.B\A21.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	193	
107-02-8	Acrolein	851	
107-13-1	Acrylonitrile	222	
71-43-2	Benzene	46.4	
108-86-1	Bromobenzene	43.7	
74-97-5	Bromochloromethane	46.9	
75-27-4	Bromodichloromethane	49.9	
75-25-2	Bromoform	47.4	
74-83-9	Bromomethane	40.7	
78-93-3	2-Butanone (MEK)	212	
104-51-8	n-Butylbenzene	39.4	
135-98-8	sec-Butylbenzene	43.0	
98-06-6	tert-Butylbenzene	39.0	
75-15-0	Carbon disulfide	44.6	
56-23-5	Carbon tetrachloride	56.6	
108-90-7	Chlorobenzene	46.6	
75-00-3	Chloroethane	45.8	
67-66-3	Chloroform	46.9	
74-87-3	Chloromethane	40.6	
95-49-8	2-Chlorotoluene	40.2	
106-43-4	4-Chlorotoluene	44.9	
124-48-1	Dibromochloromethane	50.8	
106-93-4	1,2-Dibromoethane (EDB)	45.9	
74-95-3	Dibromomethane	49.7	
95-50-1	1,2-Dichlorobenzene	46.8	
541-73-1	1,3-Dichlorobenzene	45.6	
106-46-7	1,4-Dichlorobenzene	44.5	
110-57-6	trans-1,4-Dichloro-2-butene	40.3	
75-71-8	Dichlorodifluoromethane	16.3	
75-34-3	1,1-Dichloroethane	46.9	
107-06-2	1,2-Dichloroethane	48.0	
75-35-4	1,1-Dichloroethene	51.0	
156-59-2	cis-1,2-Dichloroethene	1230	E
156-60-5	trans-1,2-Dichloroethene	53.5	
78-87-5	1,2-Dichloropropane	44.6	
142-28-9	1,3-Dichloropropane	44.0	
594-20-7	2,2-Dichloropropane	48.6	

02/02/2023 7:02

SAMPLE NO.

MS

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 19:36
Lab Sample ID: 3287469
Date Analyzed: 01/23/2023 19:36
Lab File ID: A012323.B\A21.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	50.5	
10061-01-5	cis-1,3-Dichloropropene	43.7	
10061-02-6	trans-1,3-Dichloropropene	42.7	
100-41-4	Ethylbenzene	45.8	
97-63-2	Ethyl methacrylate	41.2	
87-68-3	Hexachloro-1,3-butadiene	48.8	
110-54-3	n-Hexane	36.8	
591-78-6	2-Hexanone	199	
74-88-4	Iodomethane	66.3	
98-82-8	Isopropylbenzene (Cumene)	47.2	
99-87-6	p-Isopropyltoluene	43.4	
75-09-2	Methylene Chloride	46.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	205	
1634-04-4	Methyl-tert-butyl ether	45.4	
91-20-3	Naphthalene	42.7	
103-65-1	n-Propylbenzene	40.5	
100-42-5	Styrene	45.4	
630-20-6	1,1,1,2-Tetrachloroethane	48.6	
79-34-5	1,1,2,2-Tetrachloroethane	38.2	
127-18-4	Tetrachloroethene	52.0	
108-88-3	Toluene	42.6	
87-61-6	1,2,3-Trichlorobenzene	45.9	
120-82-1	1,2,4-Trichlorobenzene	44.4	
71-55-6	1,1,1-Trichloroethane	52.4	
79-00-5	1,1,2-Trichloroethane	43.3	
79-01-6	Trichloroethene	50.3	
75-69-4	Trichlorofluoromethane	47.8	
96-18-4	1,2,3-Trichloropropane	42.4	
95-63-6	1,2,4-Trimethylbenzene	41.5	
108-67-8	1,3,5-Trimethylbenzene	41.8	
108-05-4	Vinyl acetate	183	
75-01-4	Vinyl chloride	93.8	
1330-20-7	Xylene (Total)	139	

02/02/2023 7:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d
Lab Smp Id: 3287469 Client Smp ID: LA2268MS
Inj Date : 23-JAN-2023 19:36
Operator : tkg Inst ID: 50mvda.i
Smp Info : 3287469,336256:5
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	1.217	1.217	(0.238)	43642	16.2521	16.2	
2 Chloromethane	50	1.396	1.404	(0.274)	116006	40.6013	40.6	
3 Vinyl Chloride	62	1.396	1.396	(0.274)	258975	93.7883	93.8(R)	
4 Bromomethane	94	1.590	1.583	(0.311)	71787	40.7461	40.7	
5 Chloroethane	64	1.647	1.647	(0.323)	73987	45.7942	45.8	
6 Trichlorofluoromethane	101	1.798	1.798	(0.352)	157687	47.8030	47.8	
7 Diethyl ether	74	1.977	1.977	(0.387)	59416	41.9634	42.0	
8 Acrolein	56	2.084	2.084	(0.408)	555217	851.339	851	
9 1,1,2trichlorotrifluoroethane	101	2.127	2.127	(0.417)	108517	49.9052	49.9	
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	113127	50.9837	51.0	
11 Acetone	43	2.184	2.192	(0.428)	253524	193.389	193	
12 Iodomethane	142	2.263	2.263	(0.443)	137669	66.2905	66.3	
13 Carbon Disulfide	76	2.313	2.313	(0.453)	297922	44.5902	44.6	
14 Acetonitrile	39	2.406	2.406	(0.471)	123336	231.688	232	
15 allyl chloride	41	2.406	2.406	(0.471)	240744	39.8526	39.8	
16 Methyl Acetate	43	2.414	2.414	(0.473)	599649	202.022	202	
17 Methylene Chloride	84	2.507	2.507	(0.491)	104503	45.9750	46.0	
18 tert-Butyl Alcohol	59	2.578	2.586	(0.505)	94349	207.838	208	
19 Acrylonitrile	53	2.722	2.722	(0.533)	310514	221.628	222	
20 Methyl-tert-butyl ether	73	2.714	2.714	(0.532)	301913	45.3663	45.4	
21 1,2-Dichloroethene (trans)	96	2.722	2.722	(0.533)	137124	53.4616	53.5	
22 n-Hexane	57	2.951	2.944	(0.578)	147389	36.8162	36.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 1,1-Dichloroethane	63	3.123	3.123	(0.612)	188367	46.9403	46.9	
	24 Vinyl Acetate	43	3.166	3.166	(0.620)	1295511	183.003	183	
	25 Diisopropyl ether	45	3.159	3.166	(0.619)	373367	44.2525	44.2	
	26 chloroprene	53	3.209	3.209	(0.628)	172552	49.1347	49.1	
	27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	316138	45.4679	45.5	
	28 2,2-Dichloropropane	77	3.767	3.760	(0.738)	156429	48.6057	48.6(Q)	
	29 1,2-Dichloroethene (cis)	96	3.775	3.775	(0.739)	3529837	1228.24	1230(R)	
	30 2-Butanone	43	3.810	3.810	(0.746)	433628	211.717	212	
	31 Ethyl Acetate	88	3.875	3.875	(0.759)	33912	234.208	234(Q)	
	32 Propionitrile	54	3.911	3.918	(0.766)	120958	207.741	208	
	33 Methacrylonitrile	41	4.083	4.090	(0.799)	684588	207.847	208	
	34 Bromochloromethane	49	4.075	4.075	(0.798)	98240	46.8675	46.9	
	35 Tetrahydrofuran	42	4.126	4.126	(0.808)	335710	203.074	203	
	36 Chloroform	83	4.169	4.169	(0.816)	190596	46.8967	46.9	
$	37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	112355	53.7135	53.7	
	38 1,1,1-Trichloroethane	97	4.369	4.369	(0.856)	189716	52.4218	52.4	
	39 Cyclohexane	56	4.412	4.412	(0.864)	196121	44.4086	44.4	
	40 Carbon Tetrachloride	117	4.548	4.548	(0.891)	186885	56.5590	56.6	
	41 1,1-Dichloropropene	75	4.555	4.555	(0.892)	145645	50.5316	50.5	
	42 Isobutyl alcohol	43	4.749	4.756	(0.930)	42495	210.830	211	
	43 Benzene	78	4.792	4.799	(0.938)	427664	46.4086	46.4	
	44 1,2-Dichloroethane	62	4.835	4.835	(0.947)	141536	47.9681	48.0	
	45 2,2,4-Trimethylpentane	57	4.863	4.863	(0.952)	273354	41.6782	41.7	
	46 tert-Amylmethyl ether	73	4.921	4.921	(0.964)	307419	43.7542	43.8	
*	47 Fluorobenzene	96	5.107	5.107	(1.000)	409495	50.0000		
	48 Trichloroethene	95	5.494	5.494	(1.076)	119575	50.2944	50.3	
	49 Methylcyclohexane	55	5.673	5.673	(1.111)	146378	41.6176	41.6	
	50 1,2-Dichloropropane	63	5.744	5.744	(1.125)	107589	44.5769	44.6	
	51 Dibromomethane	93	5.859	5.866	(1.147)	74123	49.6928	49.7	
	52 1,4-Dioxane	88	5.902	5.902	(1.156)	3545	239.447	239	
	53 Methyl methacrylate	69	5.873	5.881	(1.150)	98058	43.7392	43.7	
	54 Bromodichloromethane	83	6.031	6.031	(1.181)	146839	49.9085	49.9	
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	6.468	6.468	(0.837)	173954	43.7275	43.7	
	57 4-Methyl-2-Pentanone	43	6.625	6.625	(0.857)	934276	205.472	205	
$	58 Toluene-d8	98	6.697	6.697	(0.867)	393195	46.8115	46.8	
	59 Toluene	91	6.747	6.747	(0.873)	496469	42.5738	42.6	
	60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	158381	42.6929	42.7	
	61 Ethyl Methacrylate	69	7.019	7.019	(0.908)	156233	41.2258	41.2	
	62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	81647	43.3421	43.3	
	63 Tetrachloroethene	166	7.163	7.163	(0.927)	151826	52.0279	52.0	
	64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	162482	43.9673	44.0	
	65 2-Hexanone	43	7.270	7.270	(0.941)	725436	198.952	199	
	66 Dibromochloromethane	129	7.363	7.363	(0.953)	136771	50.7763	50.8	
	67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	114122	45.8665	45.9	
*	68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	320231	50.0000		
	69 Chlorobenzene	112	7.750	7.750	(1.003)	333709	46.6386	46.6	
	70 1,1,1,2-Tetrachloroethane	131	7.800	7.800	(1.009)	125750	48.6213	48.6	
	71 Ethylbenzene	106	7.815	7.815	(1.011)	182690	45.8259	45.8	
	72 m&p-Xylene	106	7.879	7.886	(1.019)	456368	93.4665	93.5	
	73 o-Xylene	106	8.115	8.115	(1.050)	209849	45.4131	45.4	
	74 Styrene	104	8.123	8.123	(1.051)	364991	45.3818	45.4	
	75 Bromoform	173	8.237	8.237	(0.916)	104534	47.4152	47.4	
	76 Isopropylbenzene	105	8.316	8.316	(1.076)	572584	47.1905	47.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.402	8.409	(1.087)	134204	49.9897	50.0	
78 Bromobenzene	77	8.488	8.488	(1.098)	174280	43.6669	43.7	
79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	143505	38.2091	38.2	
80 1,2,3-Trichloropropane	110	8.517	8.517	(0.947)	52467	42.3808	42.4	
81 trans-1,4-Dichloro-2-butene	53	8.517	8.517	(1.102)	51451	40.3192	40.3	
82 n-Propylbenzene	91	8.531	8.538	(0.948)	634179	40.5492	40.5	
83 2-Chlorotoluene	91	8.588	8.588	(0.955)	335964	40.1533	40.2	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	428094	41.7810	41.8	
85 4-Chlorotoluene	126	8.645	8.645	(0.961)	143650	44.8614	44.9	
86 tert-Butylbenzene	119	8.789	8.789	(0.977)	392069	39.0082	39.0	
87 1,2,4-Trimethylbenzene	105	8.810	8.810	(0.979)	425466	41.5047	41.5	
88 sec-Butylbenzene	105	8.896	8.896	(0.989)	535291	42.9589	43.0	
89 1,3-Dichlorobenzene	146	8.968	8.961	(0.997)	250705	45.6325	45.6	
90 p-Isopropyltoluene	119	8.968	8.968	(0.997)	454306	43.4439	43.4	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	169032	50.0000		
92 1,4-Dichlorobenzene	146	9.011	9.011	(1.002)	245225	44.4983	44.5	
93 1,2,3-Trimethylbenzene	105	9.025	9.025	(1.003)	398888	42.3271	42.3	
94 n-Butylbenzene	91	9.161	9.161	(1.018)	335207	39.4020	39.4	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	218963	46.7784	46.8	
96 Hexachloroethane	201	9.312	9.312	(1.035)	73705	55.4433	55.4	
97 1,2-Dibromo-3-chloropropane	155	9.569	9.562	(1.064)	34436	49.2263	49.2	
98 1,2,4-Trichlorobenzene	180	9.949	9.942	(1.106)	66149	44.4035	44.4	
99 Hexachlorobutadiene	225	10.014	10.006	(1.113)	35762	48.8478	48.8	
100 Naphthalene	128	10.071	10.064	(1.119)	193970	42.6935	42.7	
101 1,2,3-Trichlorobenzene	180	10.186	10.178	(1.132)	37921	45.8685	45.9	
102 2,methyl-naphthalene	142	10.658	10.651	(1.185)	8351	39.3382	39.3	
103 1-Methylnaphthalene	142	10.773	10.766	(1.197)	4929	42.6224	42.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d

Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

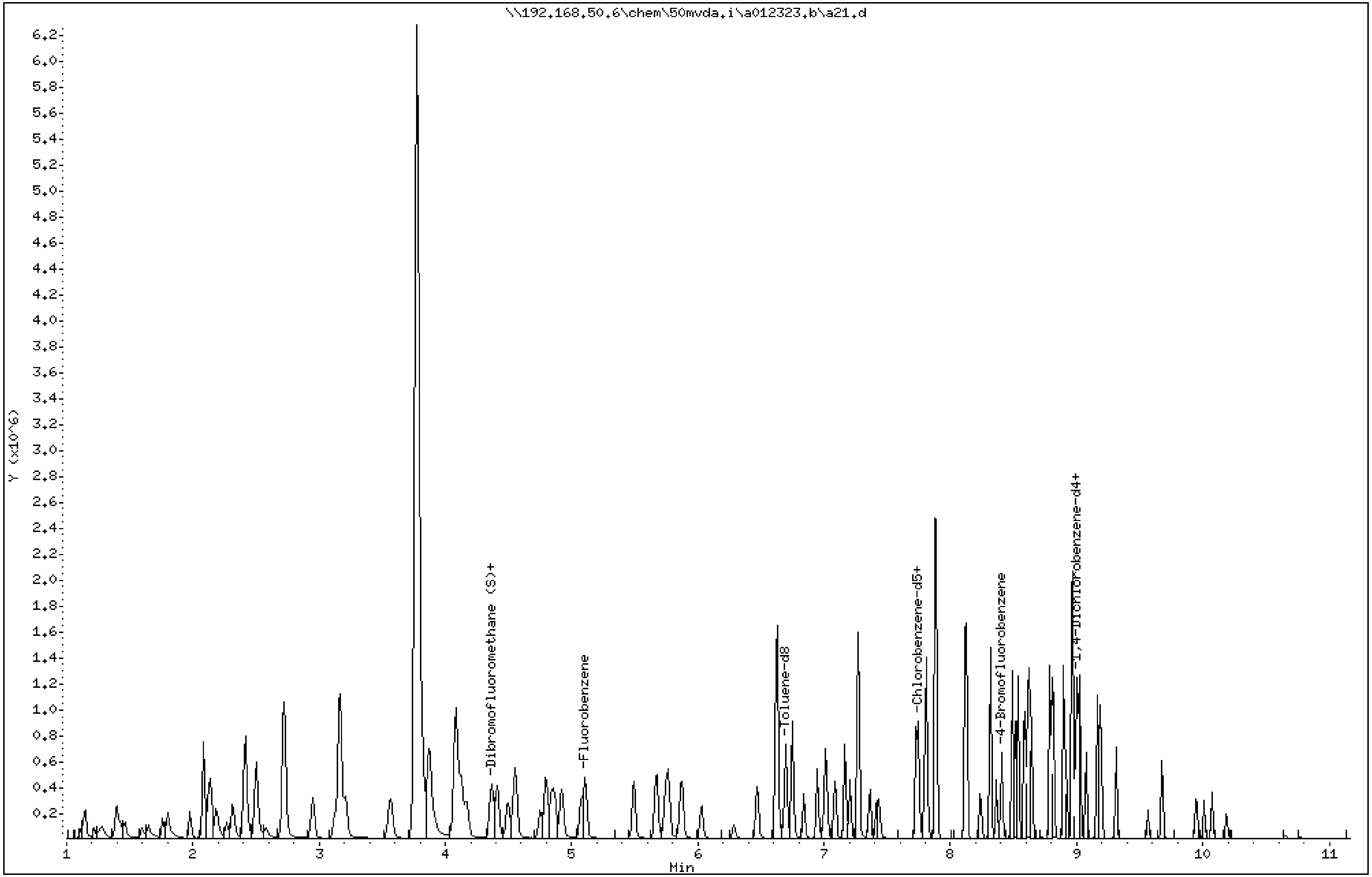
Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

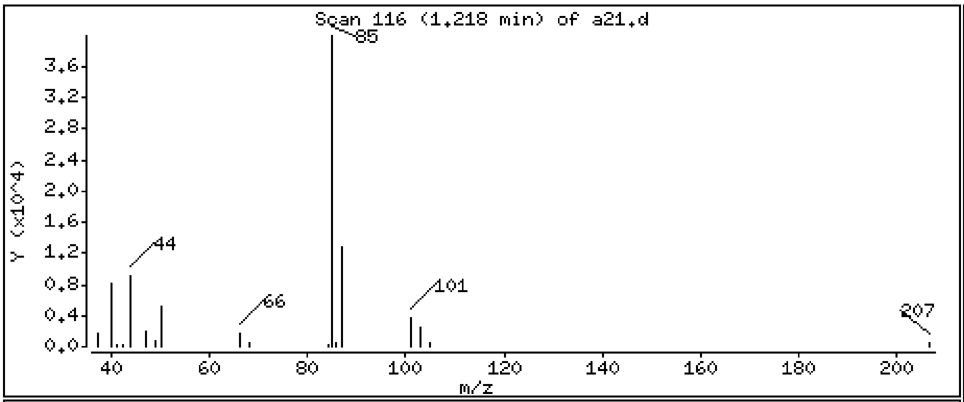
Column phase: DB-624

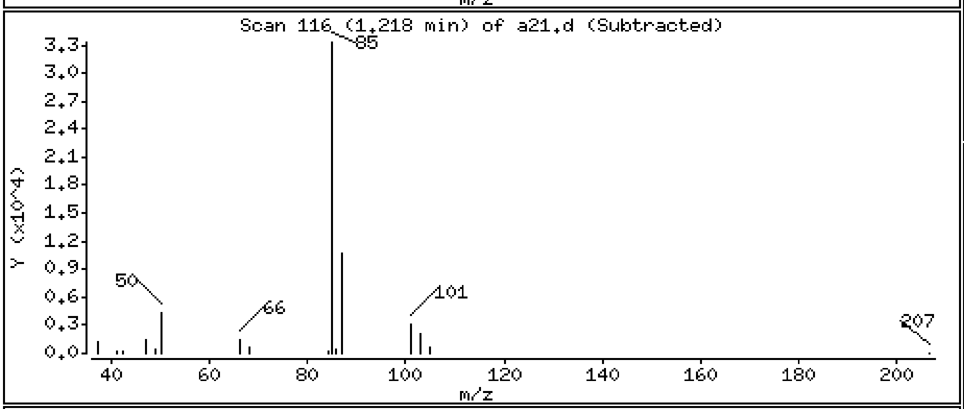
Column diameter: 0.18

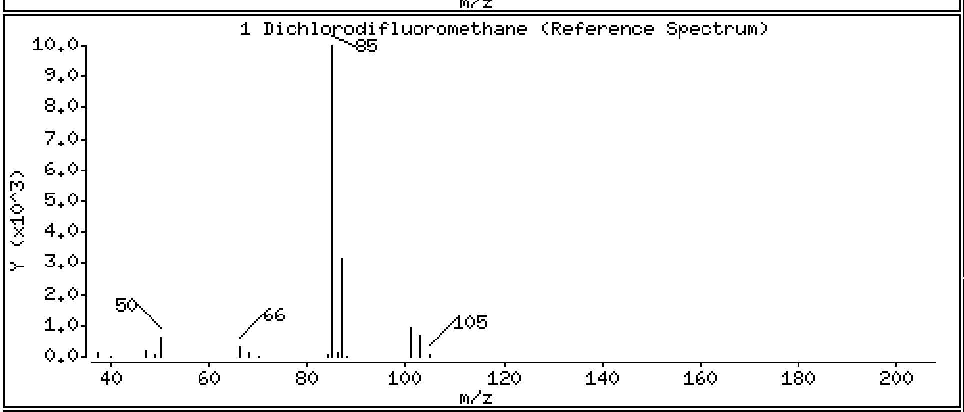
1 Dichlorodifluoromethane

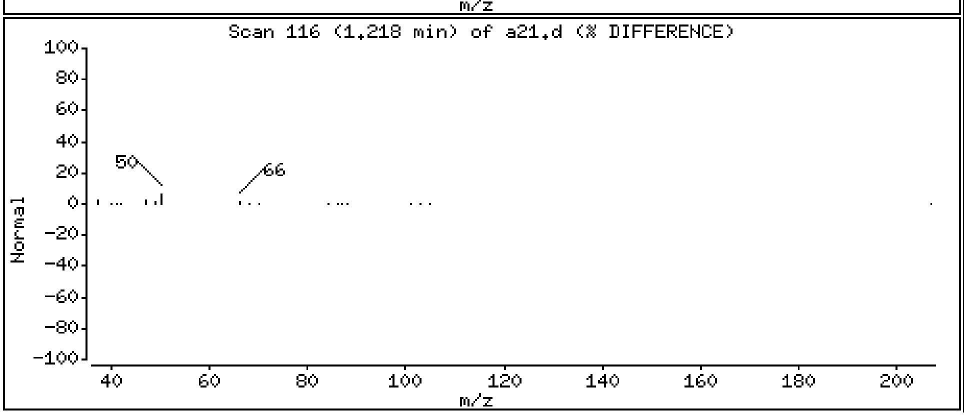
Concentration: 16.2 ppb

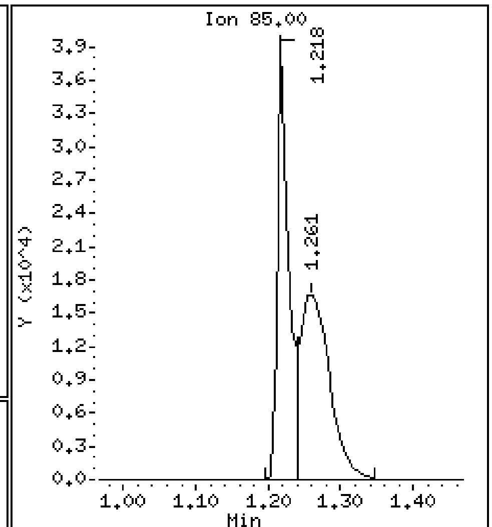
Review Code:

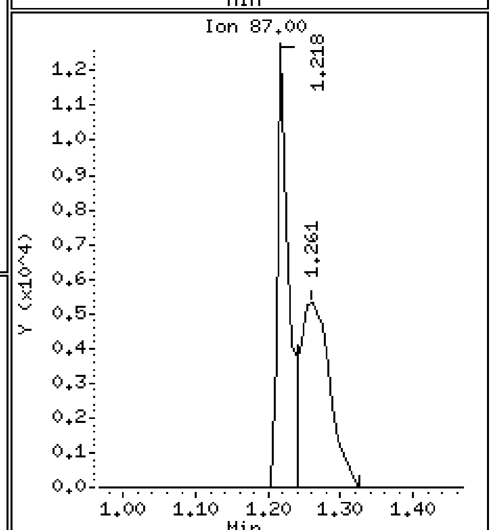


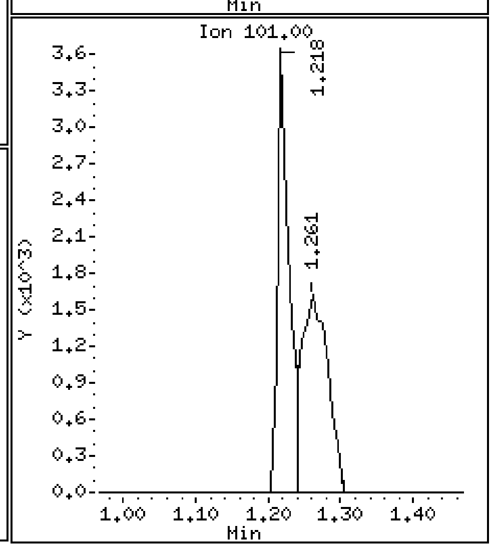












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

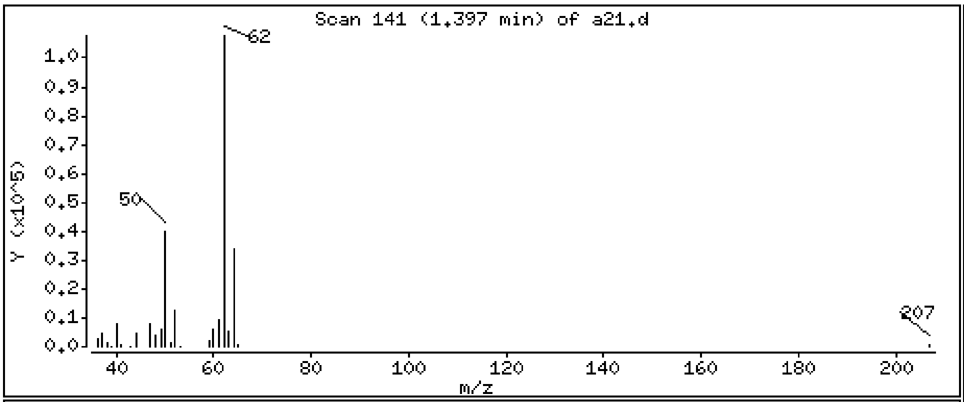
Column phase: DB-624

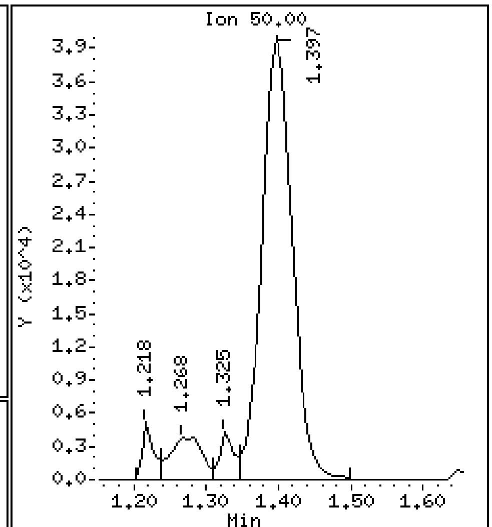
Column diameter: 0.18

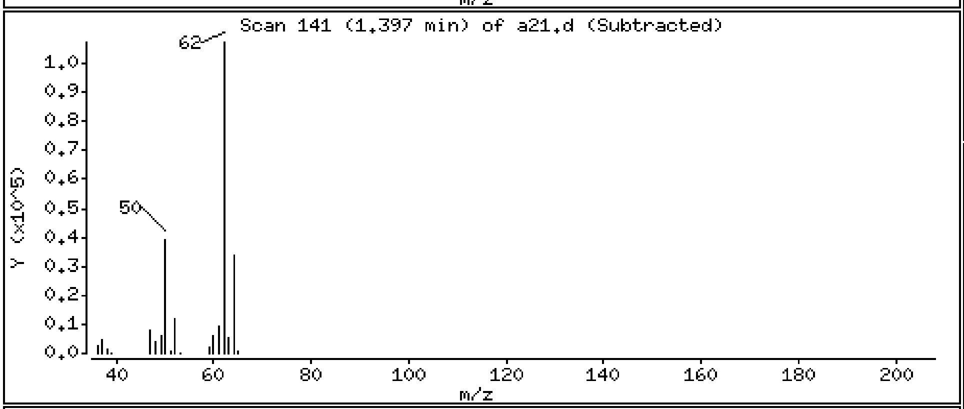
2 Chloromethane

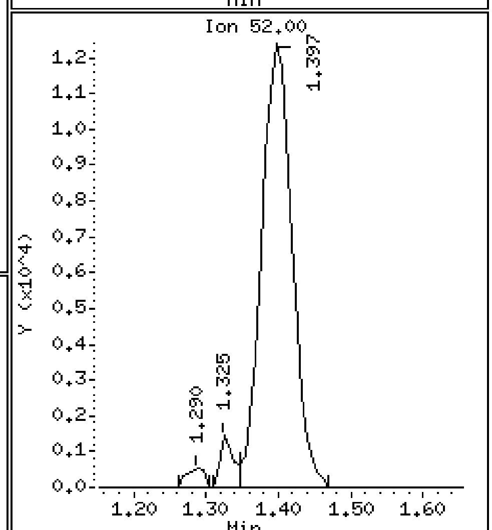
Concentration: 40.6 ppb

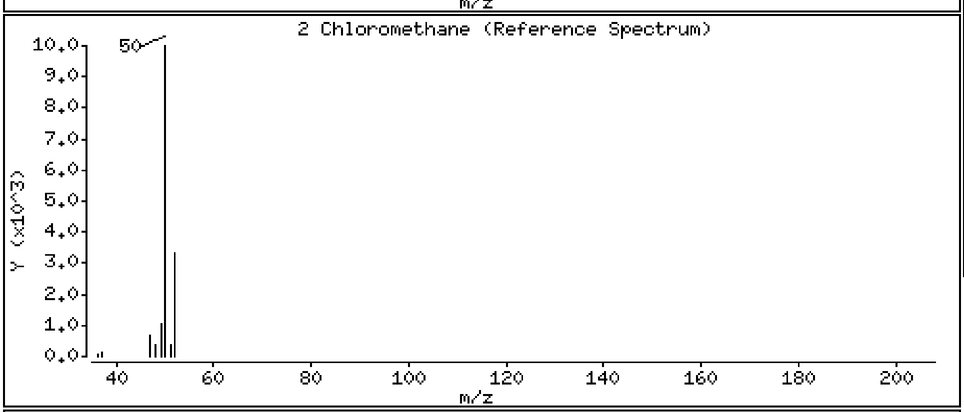
Review Code:

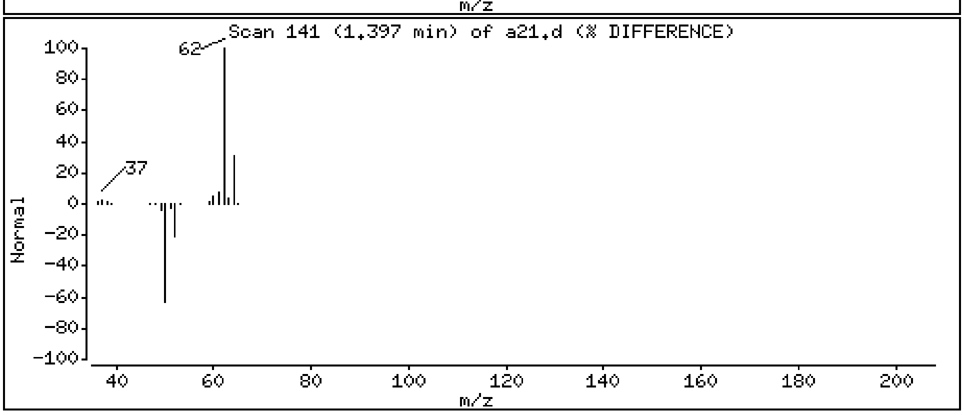












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

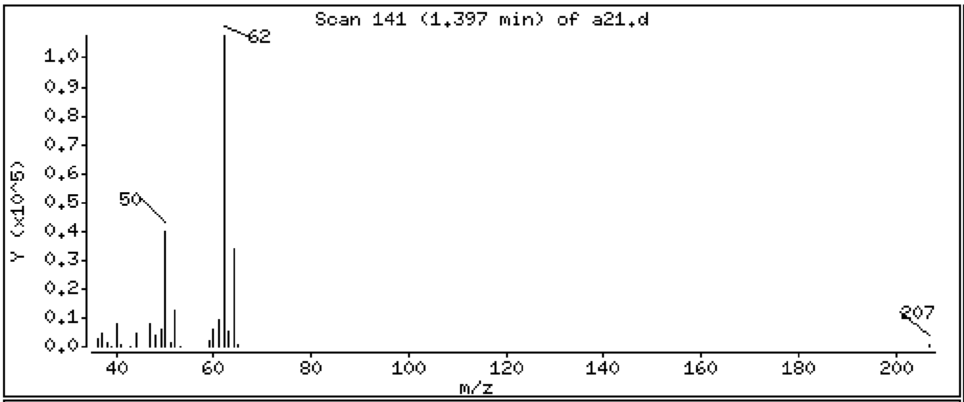
Column phase: DB-624

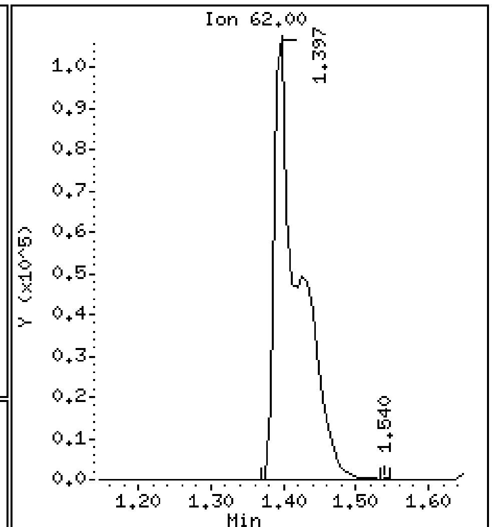
Column diameter: 0.18

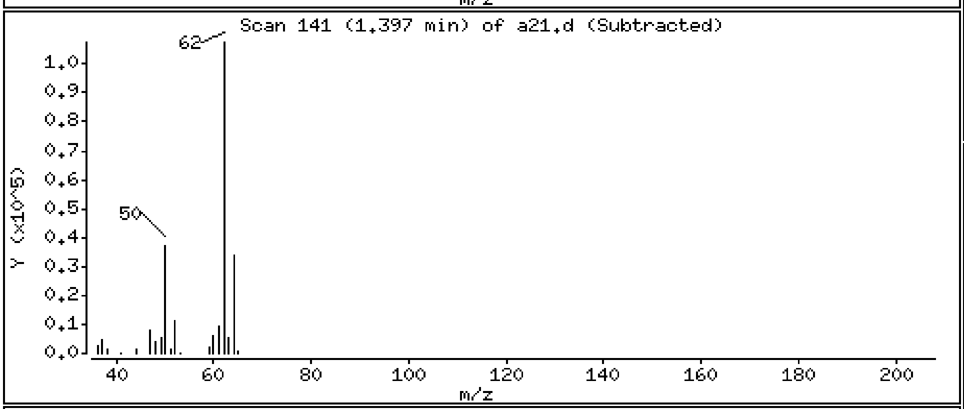
3 Vinyl Chloride

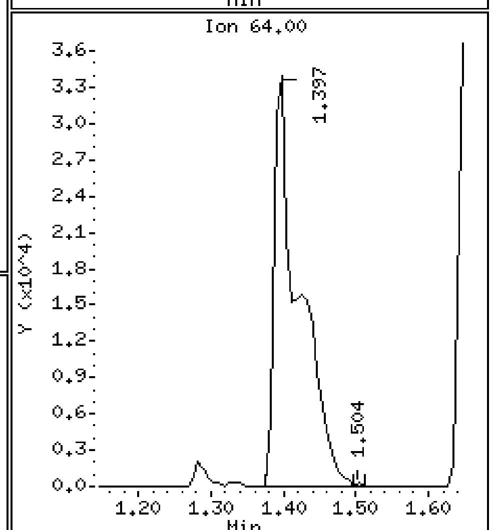
Concentration: 93.8 ppb

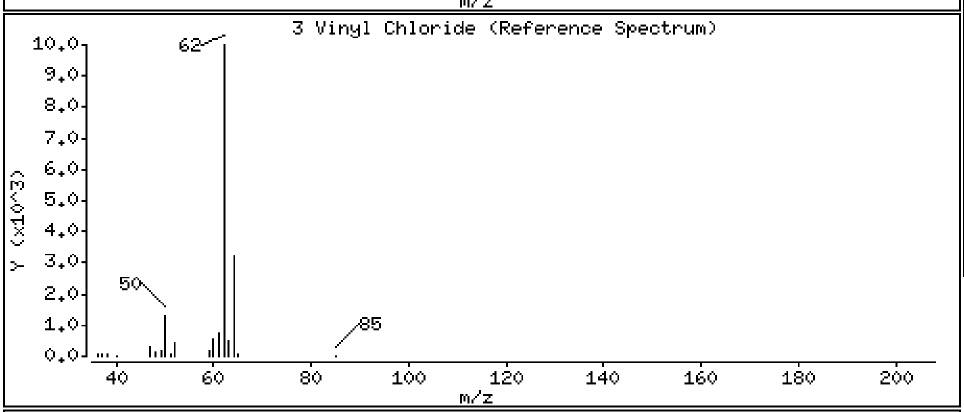
Review Code:

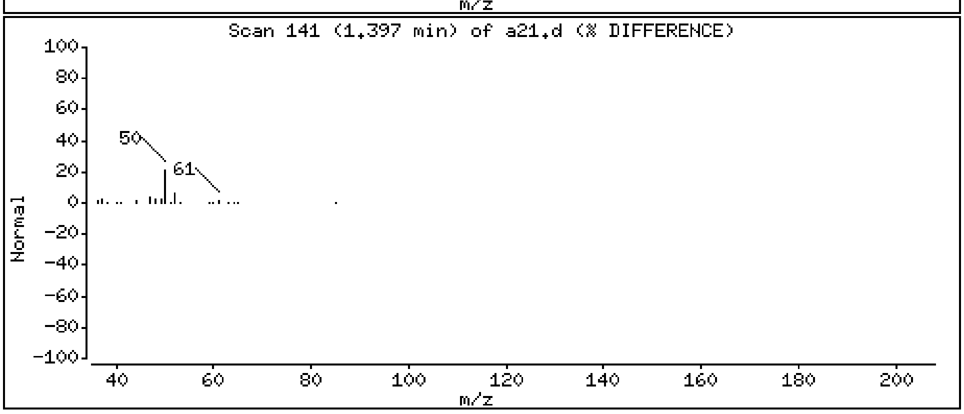












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d Page 8

Date : 23-JAN-2023 19:36

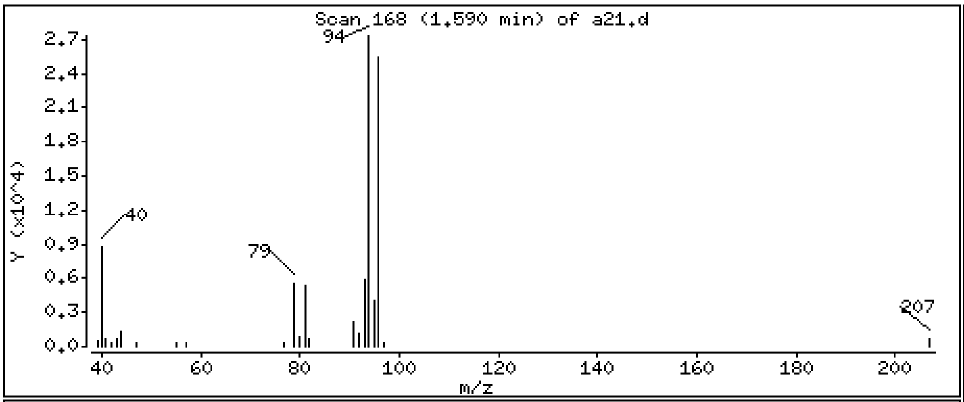
Client ID: LA2268MS Instrument: 50mvda.i

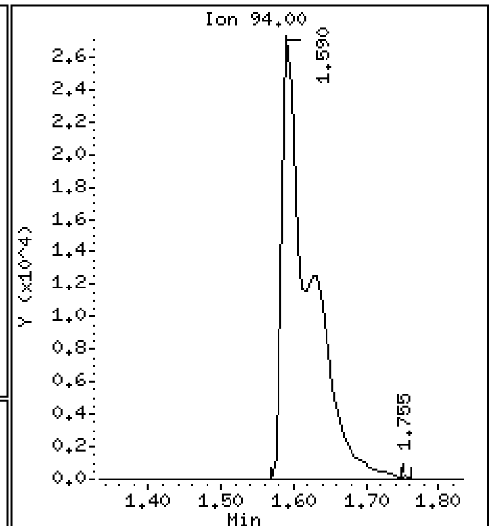
Sample Info: 3287469,336256:5

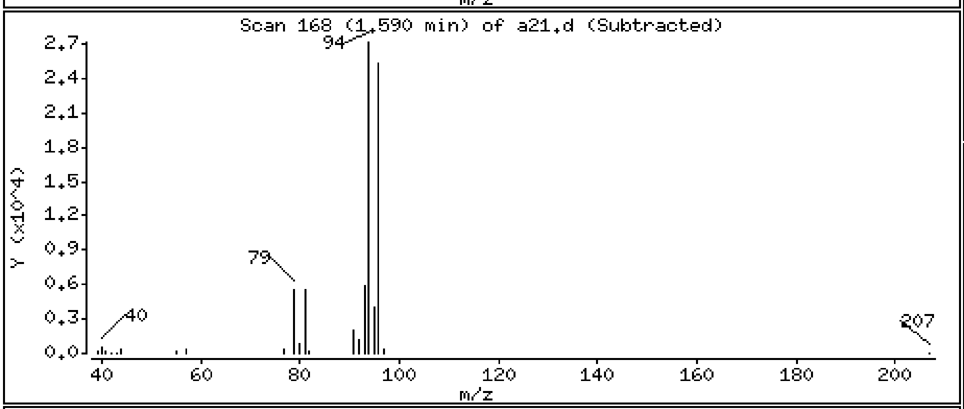
Purge Volume: 5.0 Operator: tkg

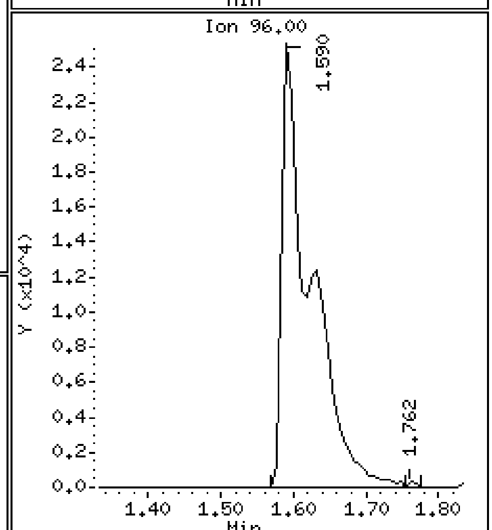
Column phase: DB-624 Column diameter: 0.18

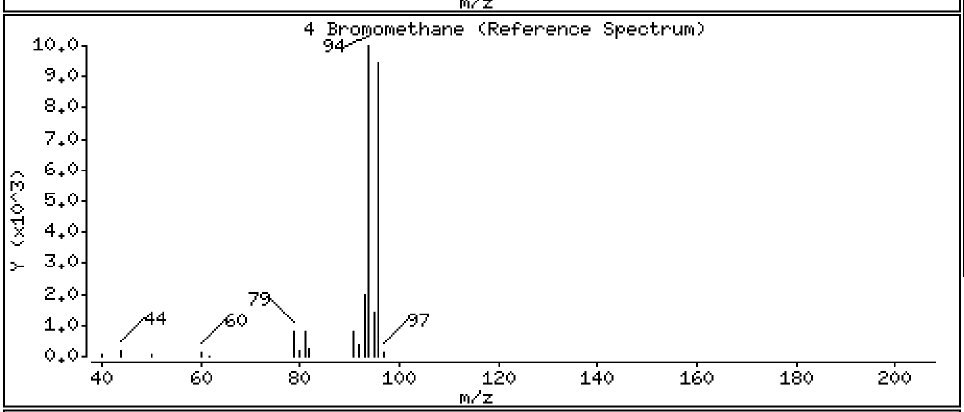
4 Bromomethane Concentration: 40.7 ppb Review Code:

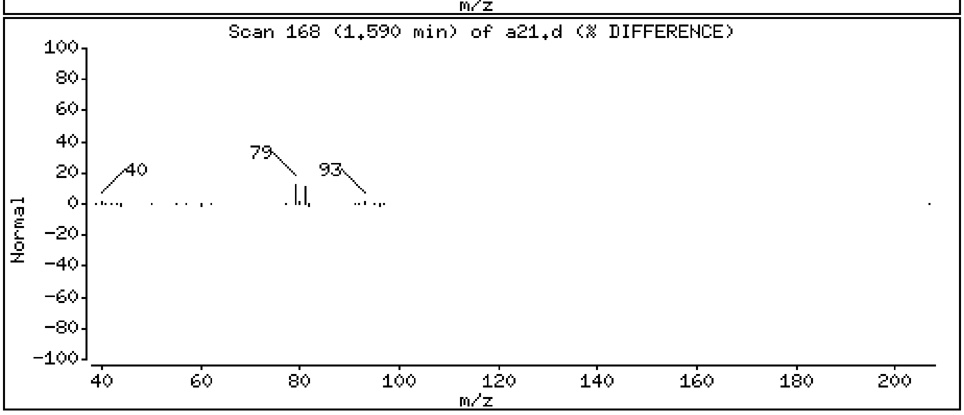












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Date : 23-JAN-2023 19:36

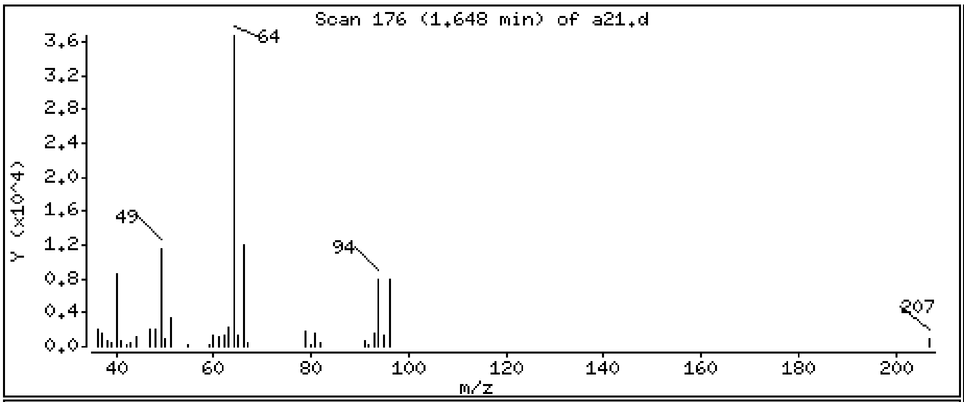
Client ID: LA2268MS | Instrument: 50mvda.i

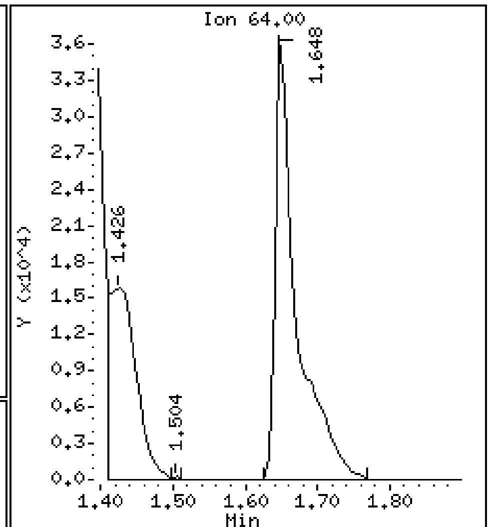
Sample Info: 3287469,336256:5

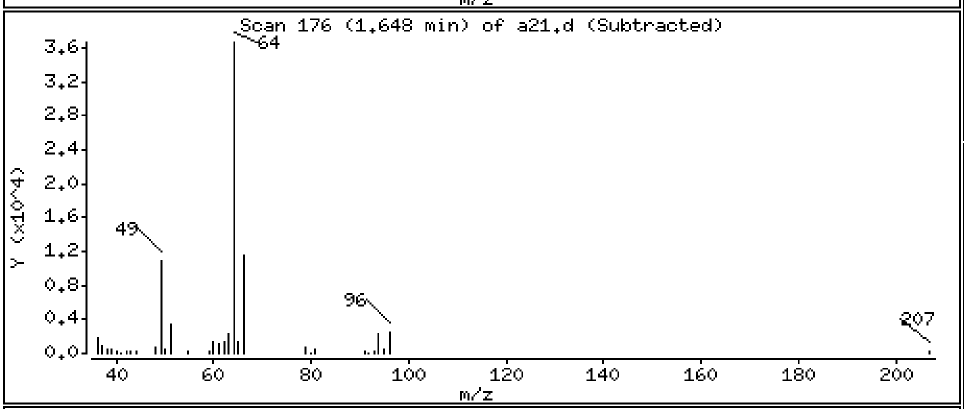
Purge Volume: 5.0 | Operator: tkg

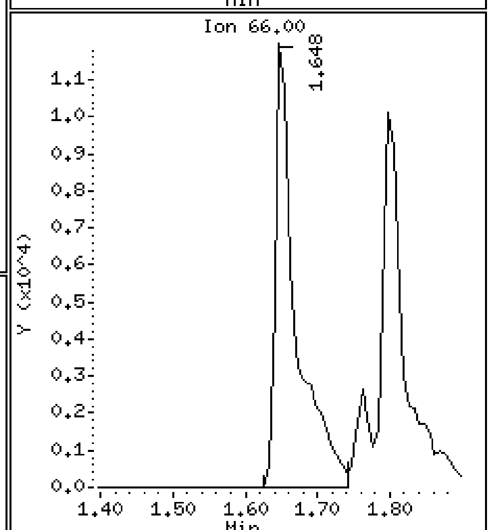
Column phase: DB-624 | Column diameter: 0.18

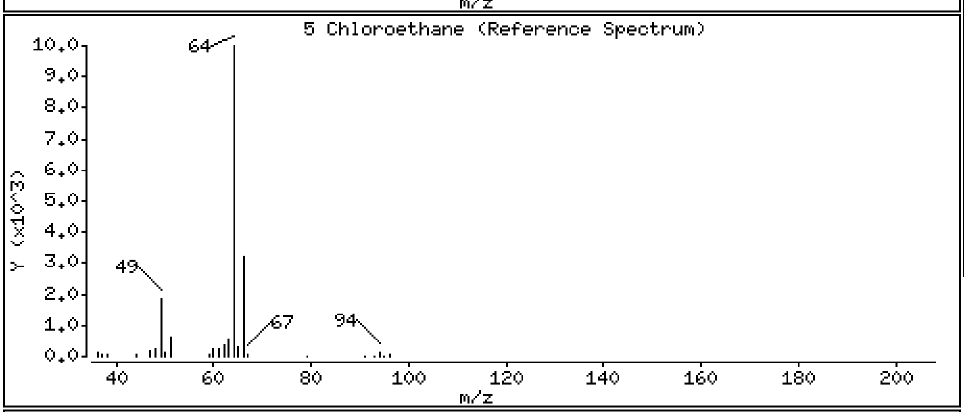
5 Chloroethane | Concentration: 45.8 ppb | Review Code:

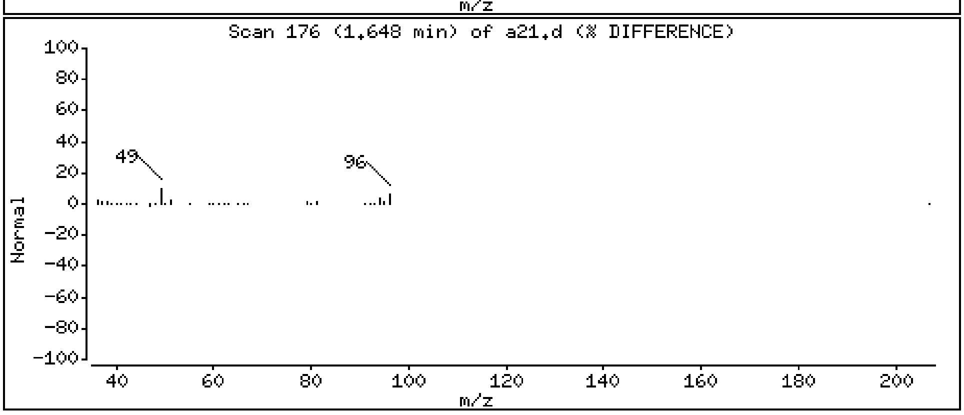












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

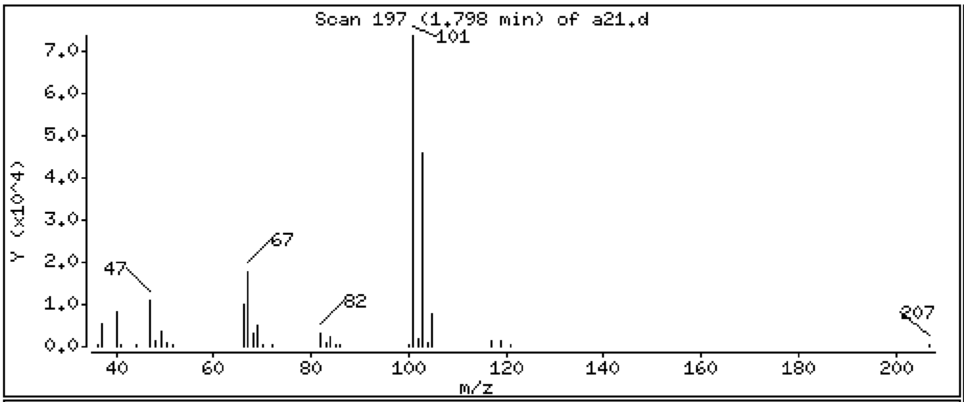
Column phase: DB-624

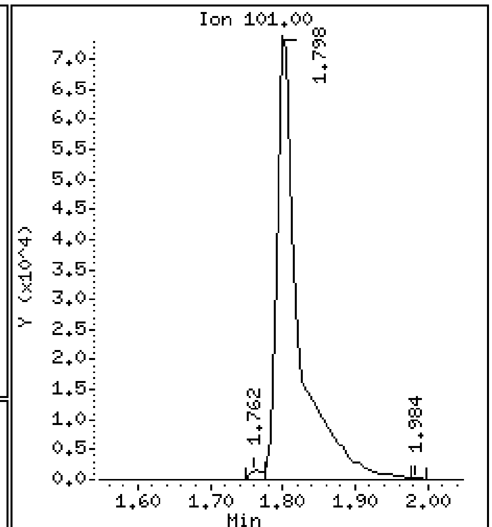
Column diameter: 0.18

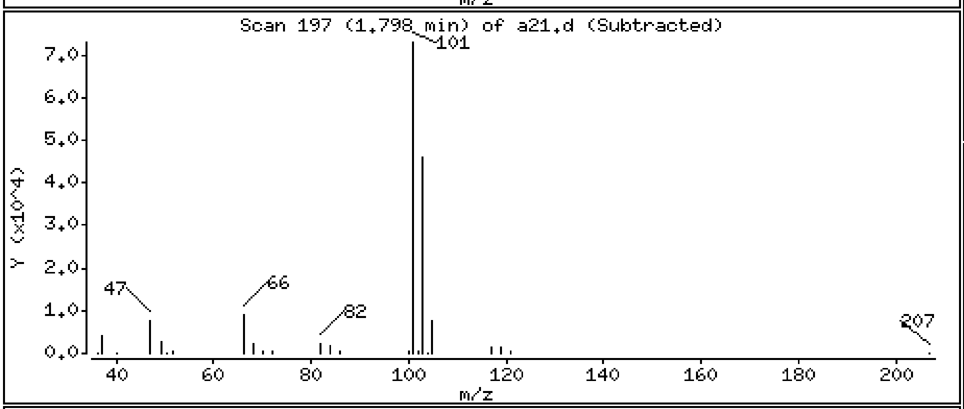
6 Trichlorofluoromethane

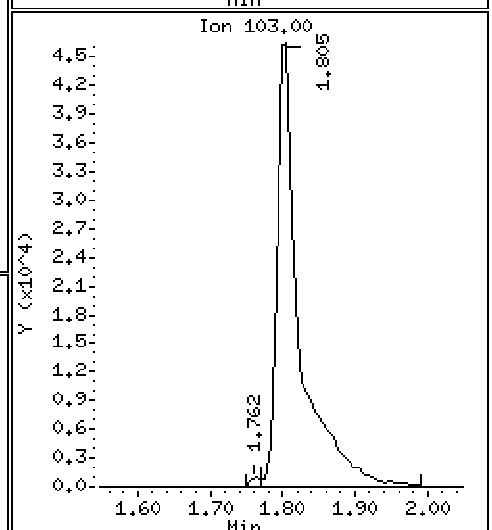
Concentration: 47.8 ppb

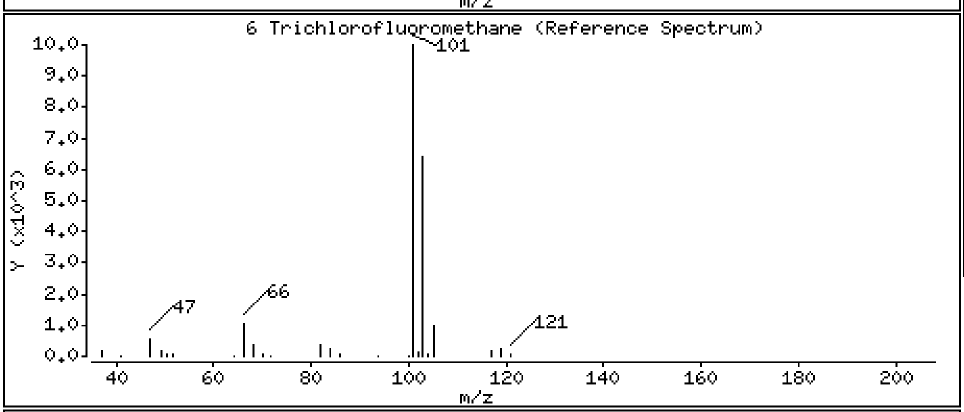
Review Code:

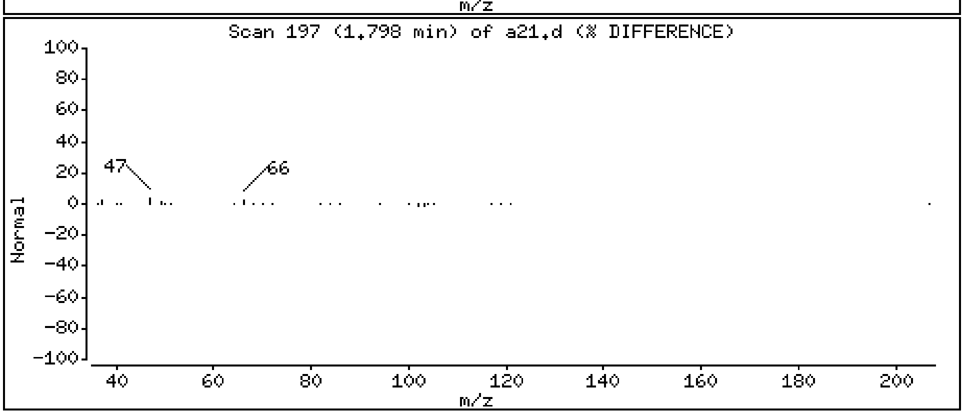












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

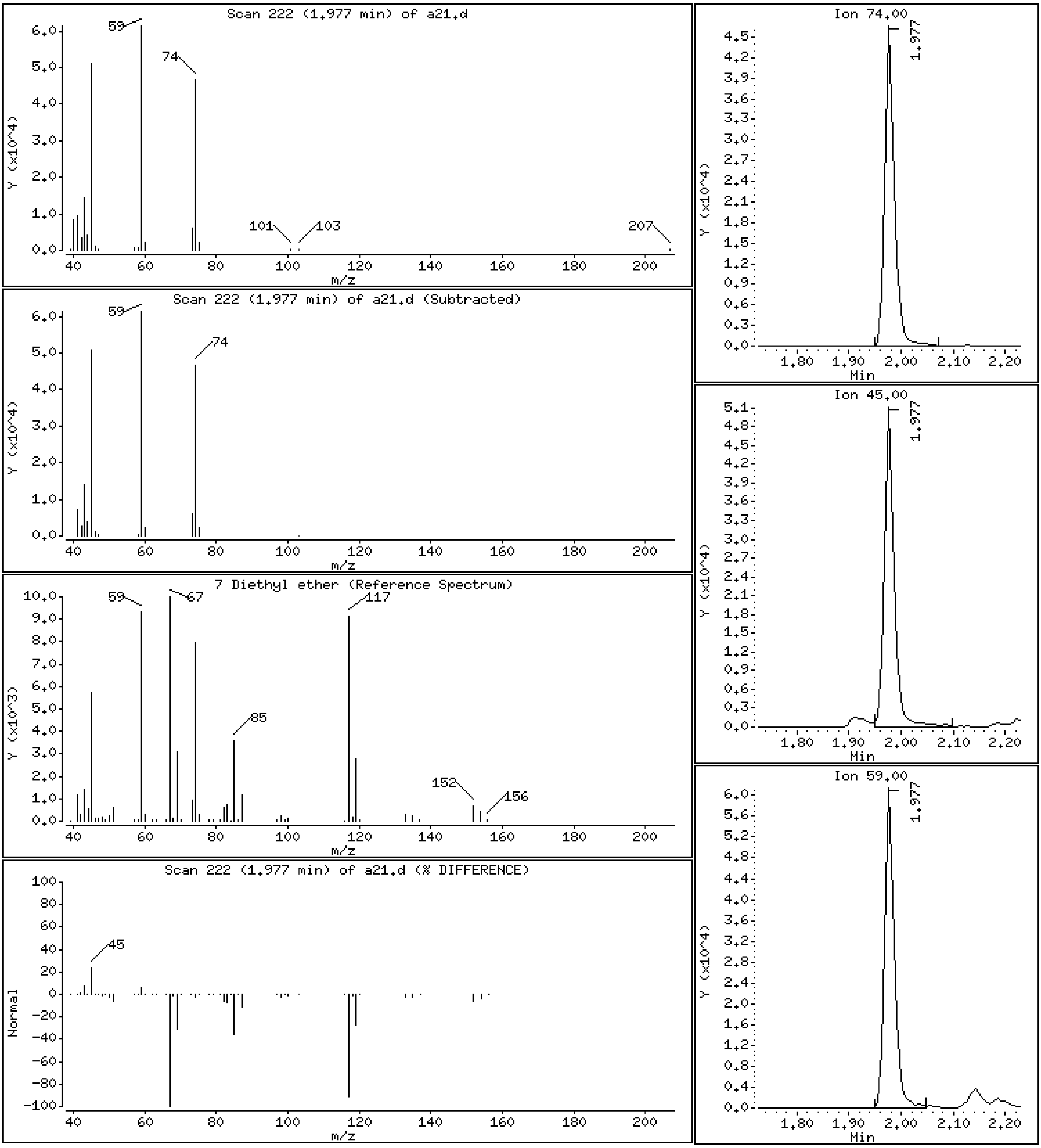
Column phase: DB-624

Column diameter: 0.18

7 Diethyl ether

Concentration: 42.0 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

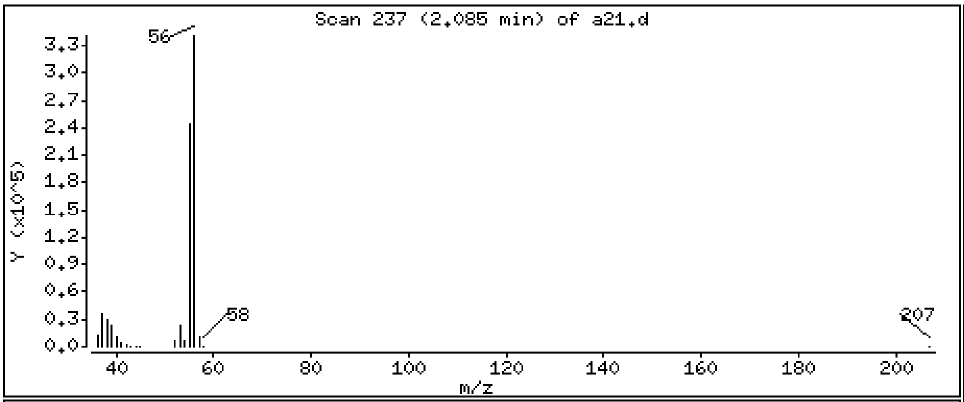
Column phase: DB-624

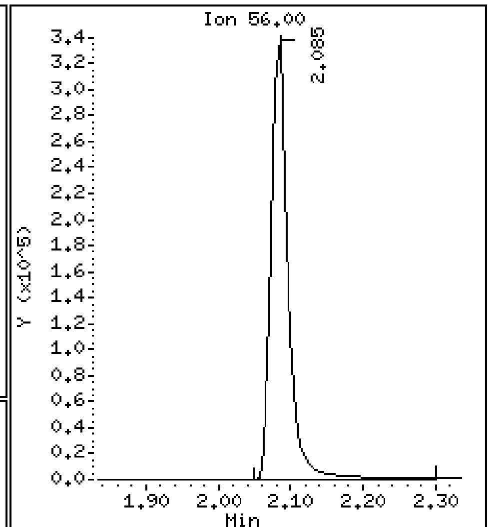
Column diameter: 0.18

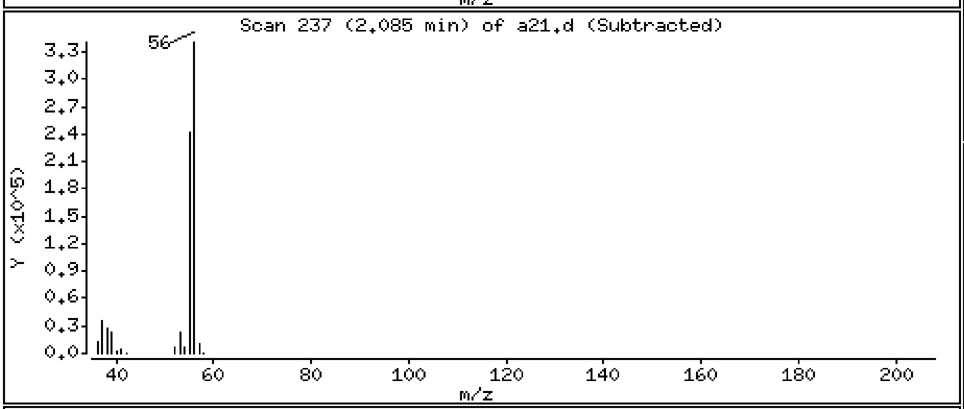
8 Acrolein

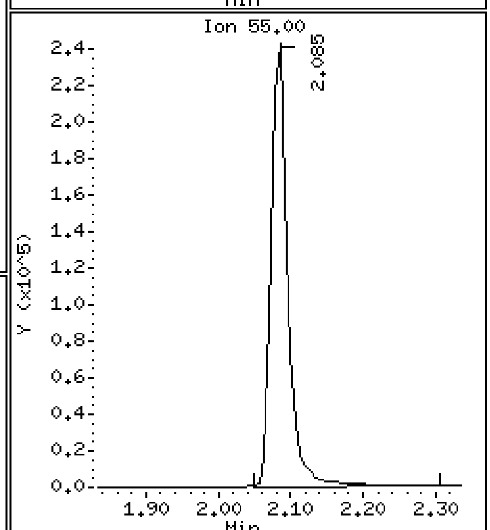
Concentration: 851 ppb

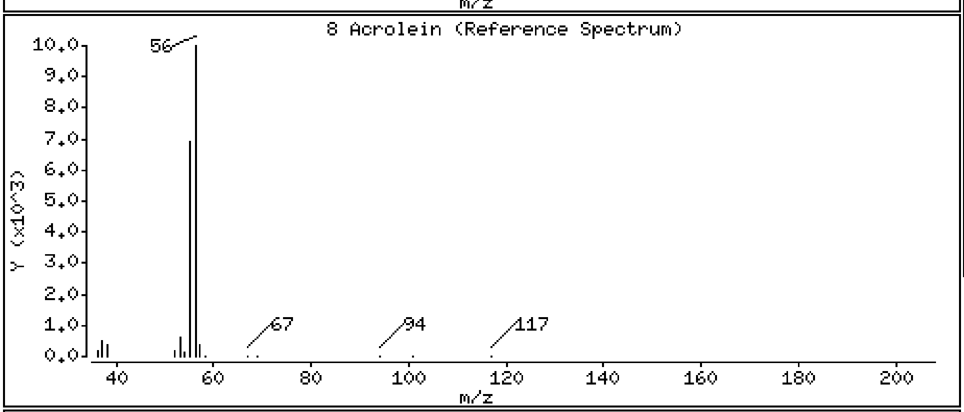
Review Code:

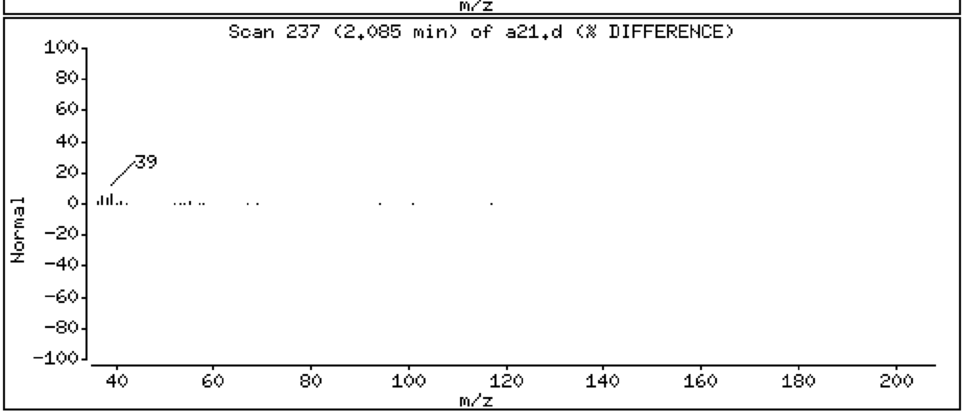












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

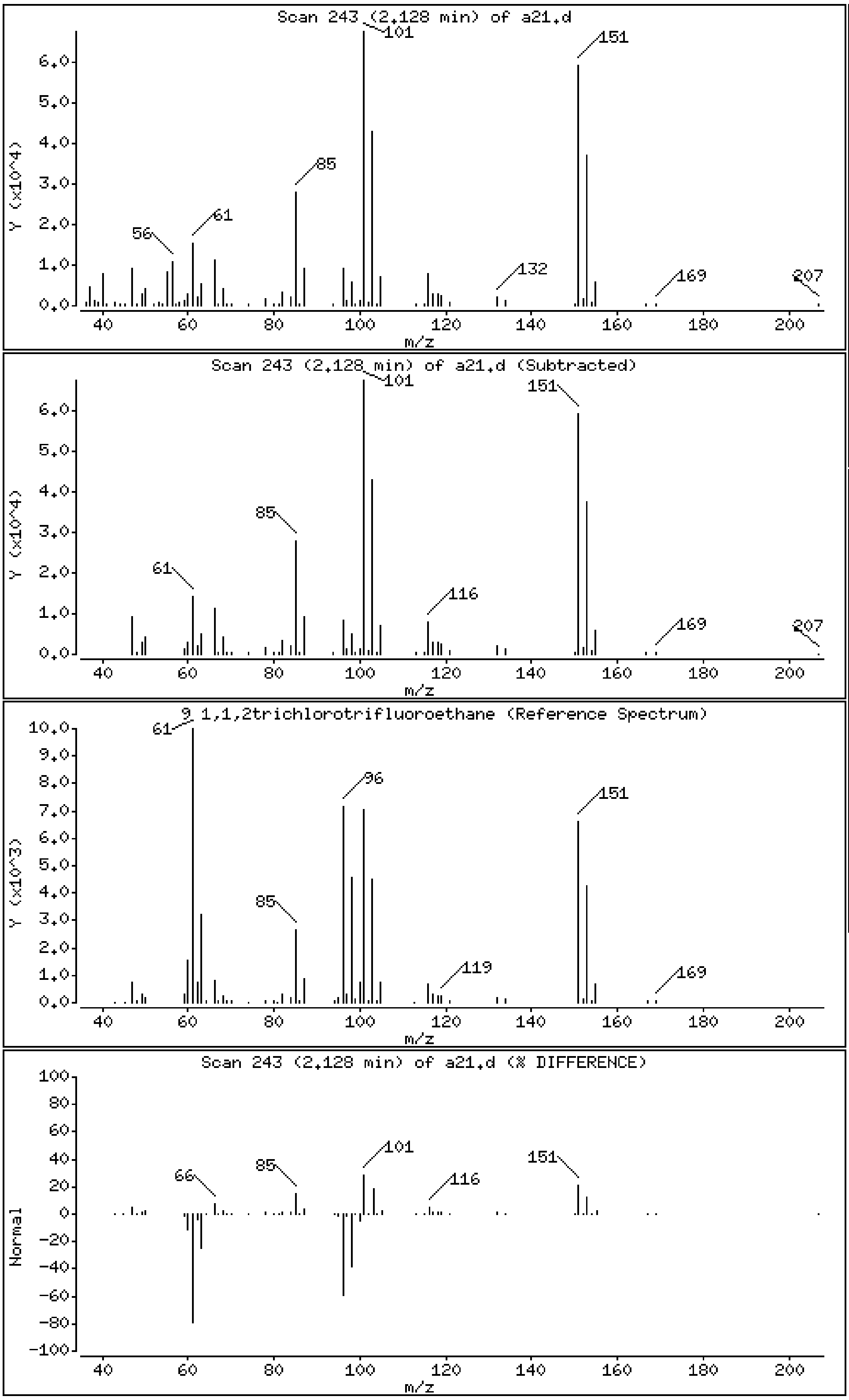
Column phase: DB-624

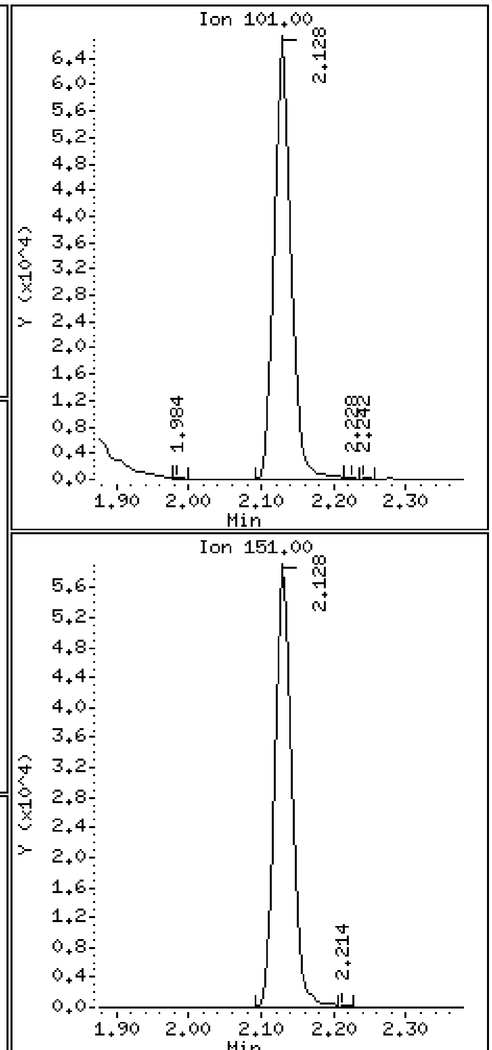
Column diameter: 0.18

9 1,1,2trichlorotrifluoroethane

Concentration: 49.9 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

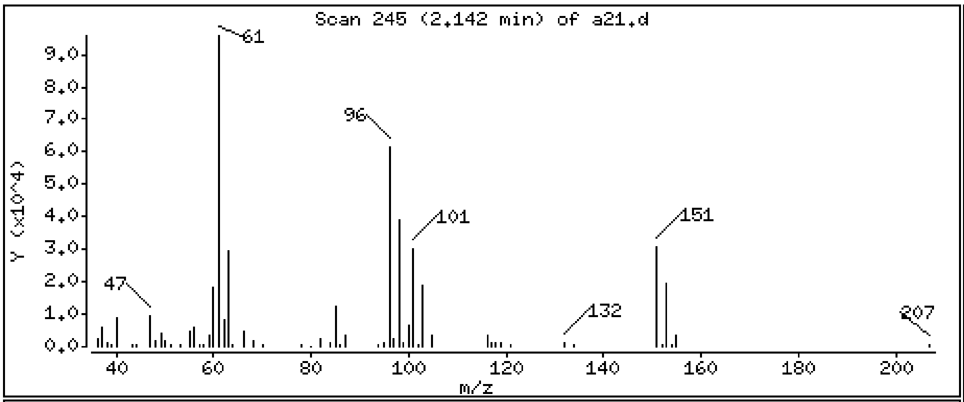
Column phase: DB-624

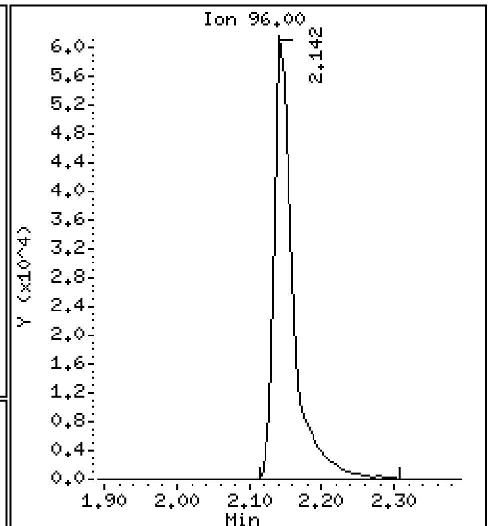
Column diameter: 0.18

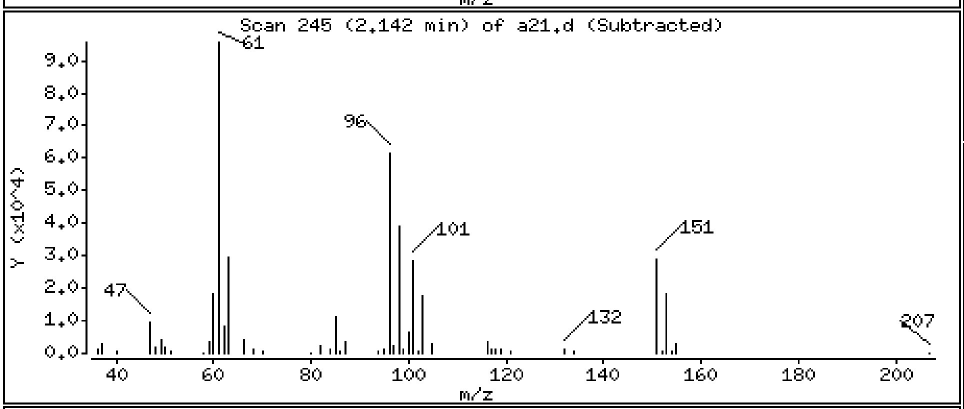
10 1,1-Dichloroethene

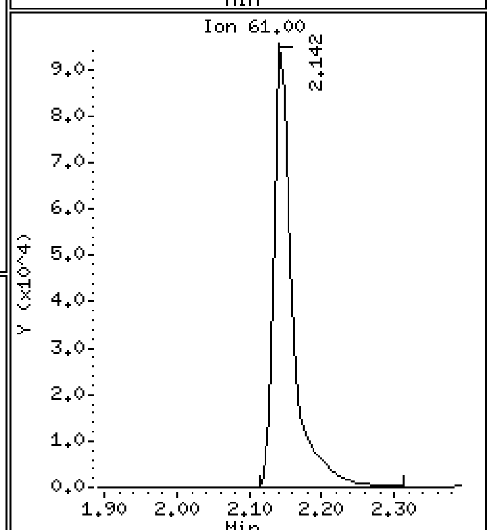
Concentration: 51.0 ppb

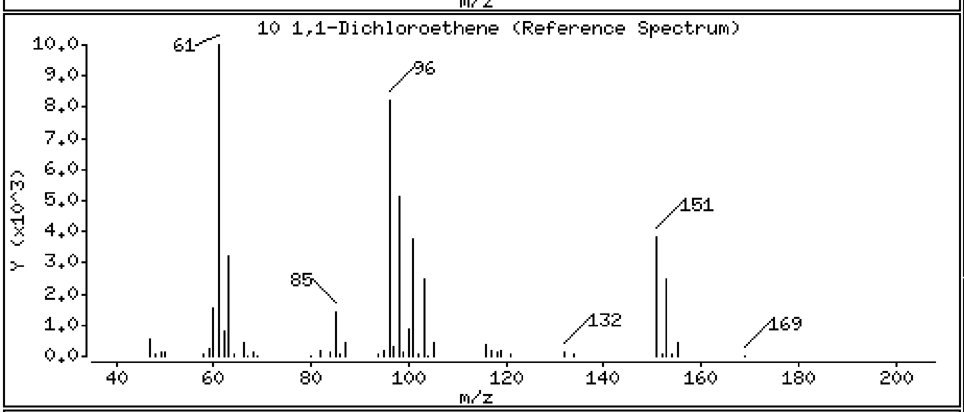
Review Code:

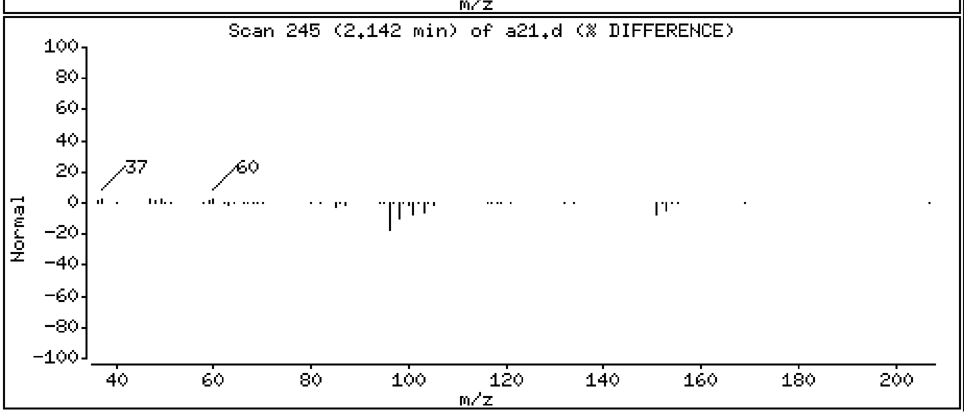


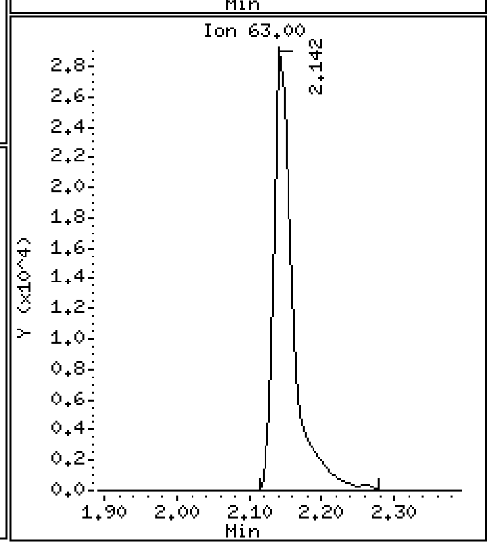












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

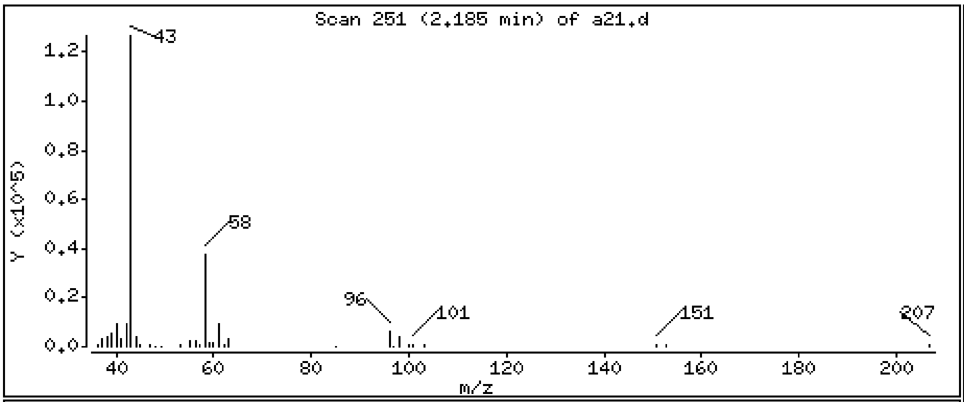
Column phase: DB-624

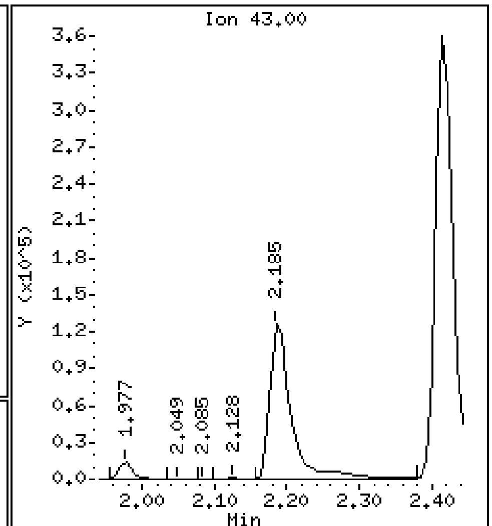
Column diameter: 0.18

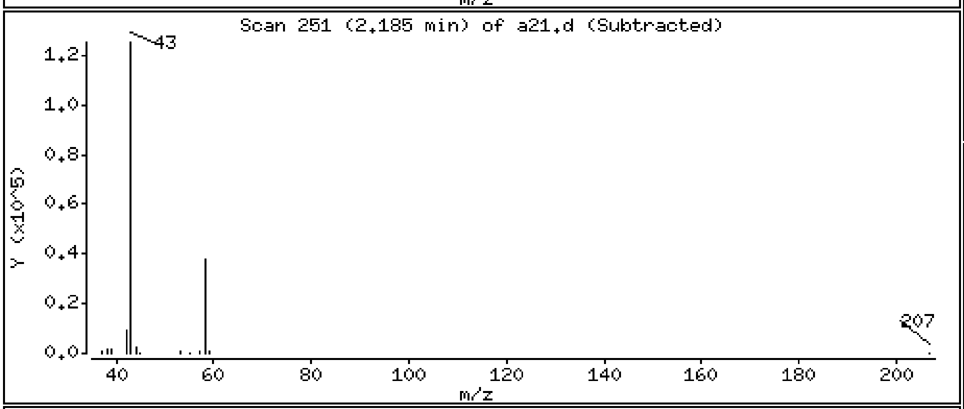
11 Acetone

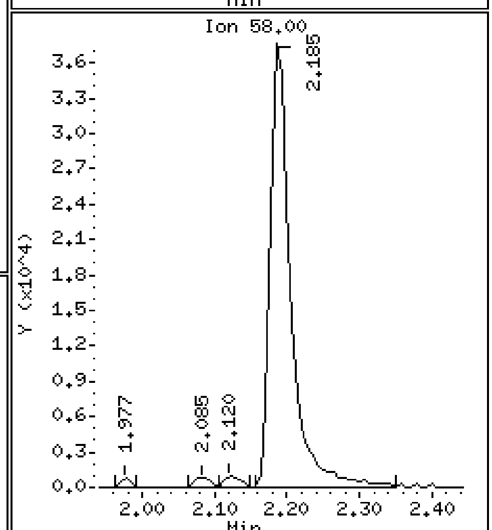
Concentration: 193 ppb

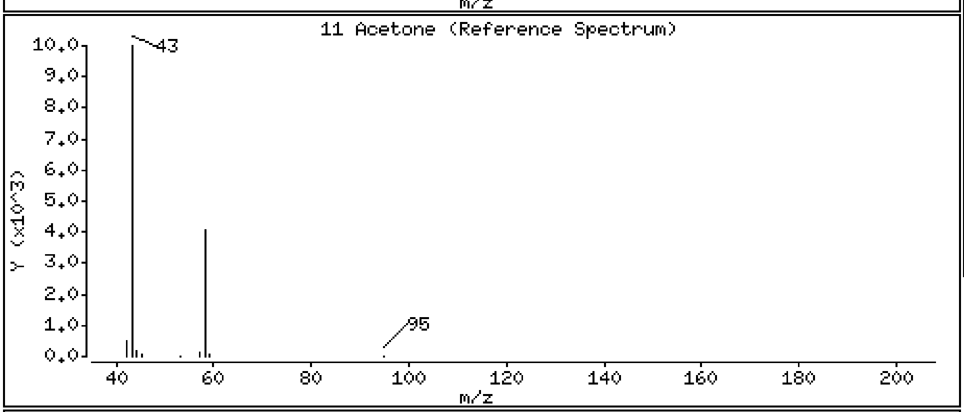
Review Code:

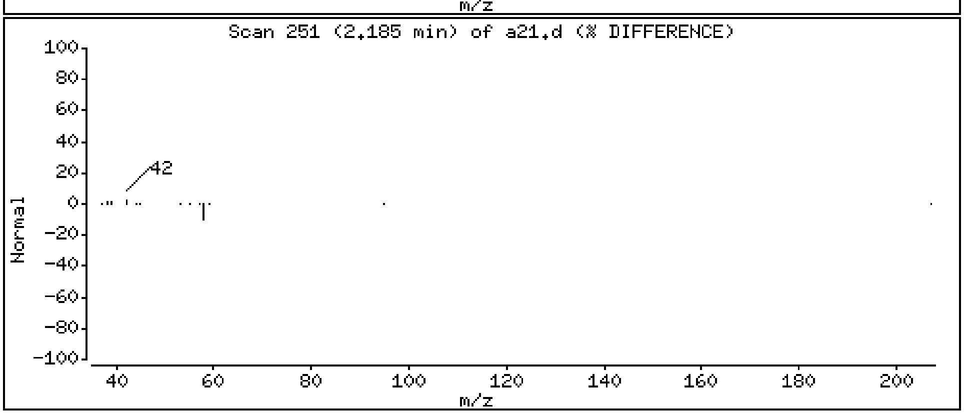












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Date : 23-JAN-2023 19:36

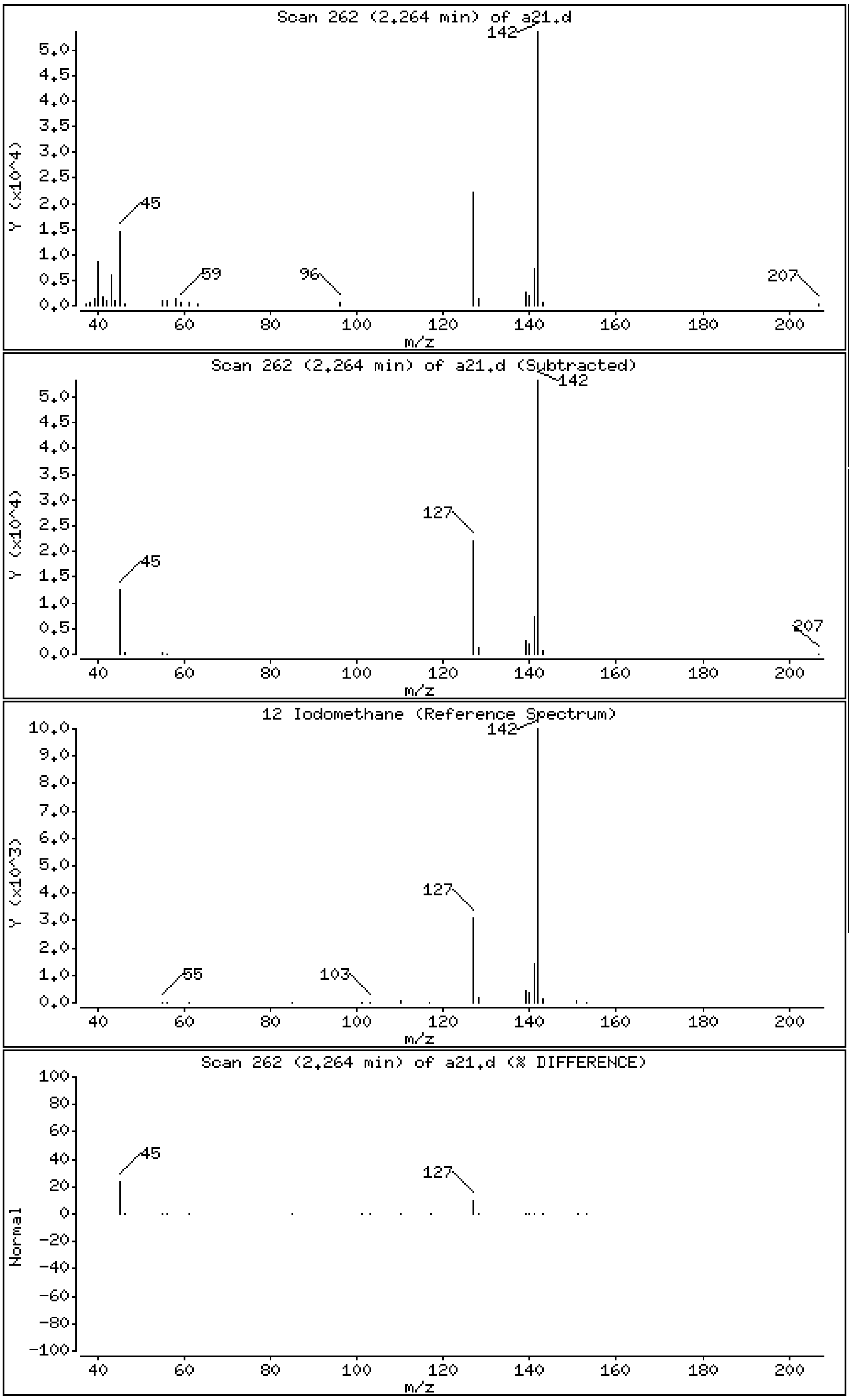
Client ID: LA2268MS Instrument: 50mvda.i

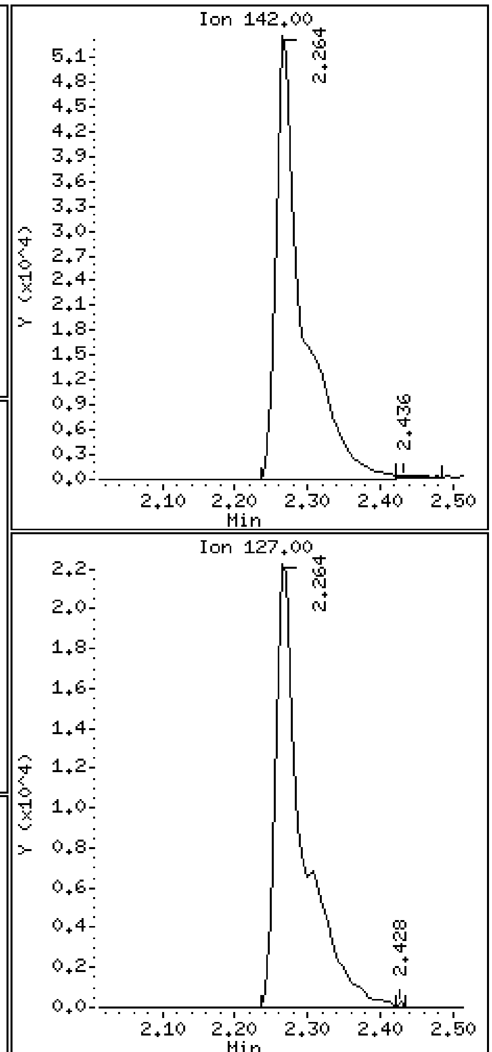
Sample Info: 3287469,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

12 Iodomethane Concentration: 66.3 ppb Review Code:





Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d

Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

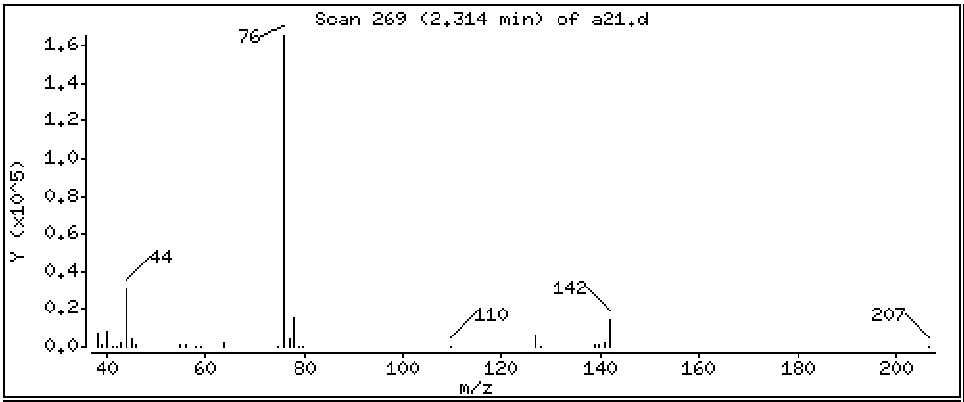
Column phase: DB-624

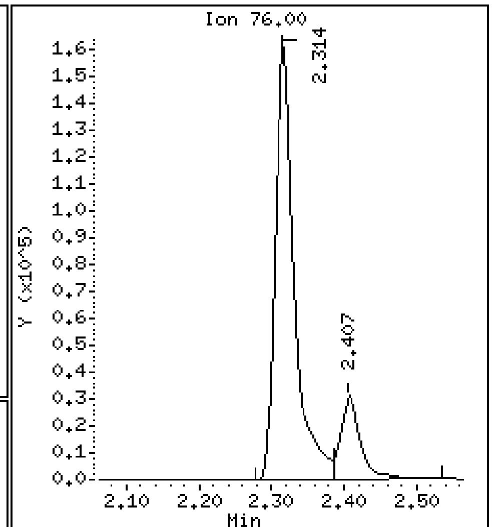
Column diameter: 0.18

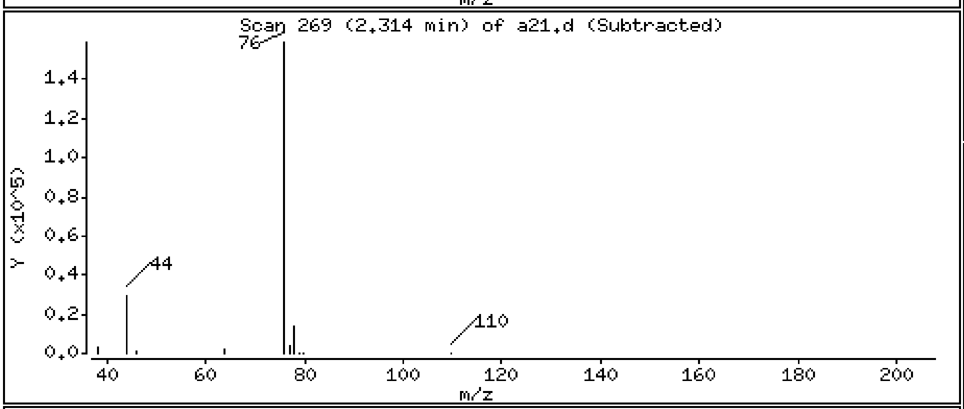
13 Carbon Disulfide

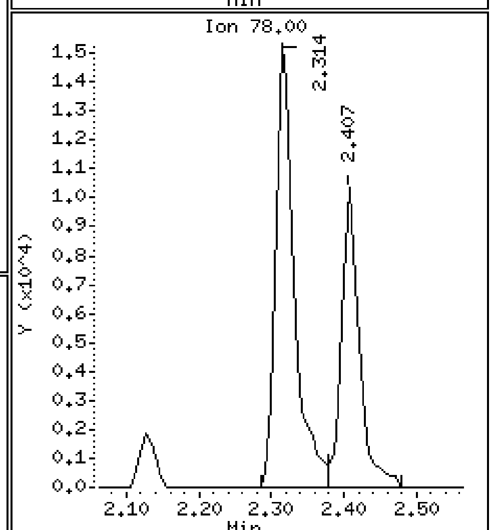
Concentration: 44.6 ppb

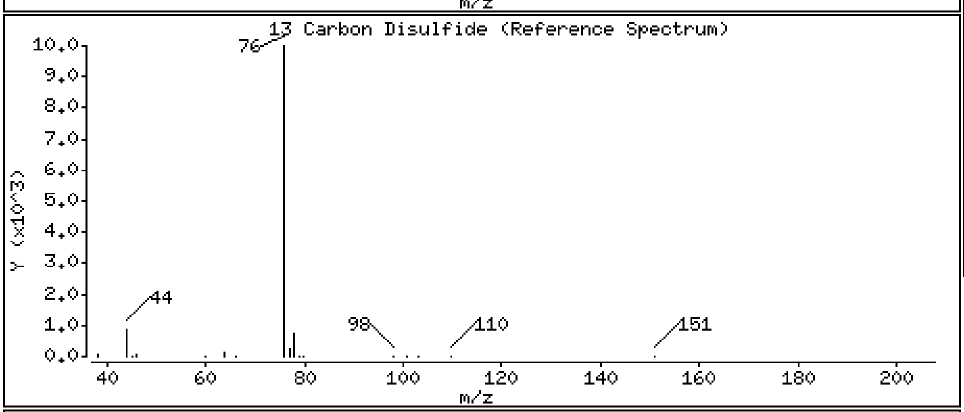
Review Code:

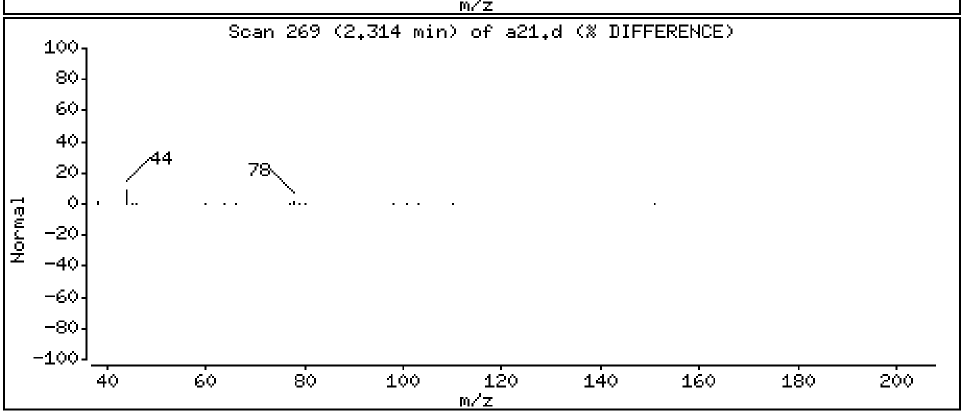












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Date : 23-JAN-2023 19:36

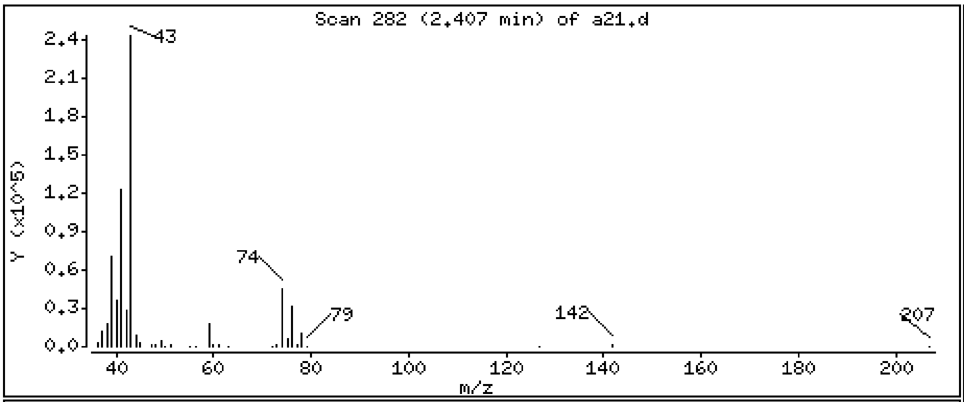
Client ID: LA2268MS Instrument: 50mvda.i

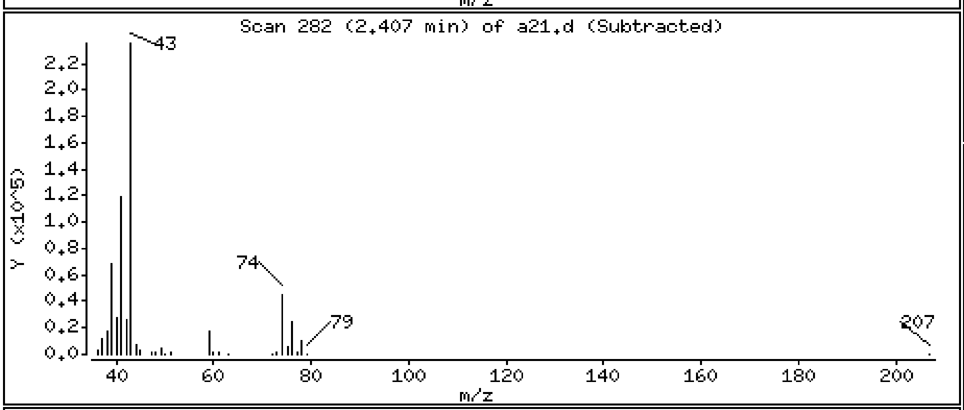
Sample Info: 3287469,336256:5

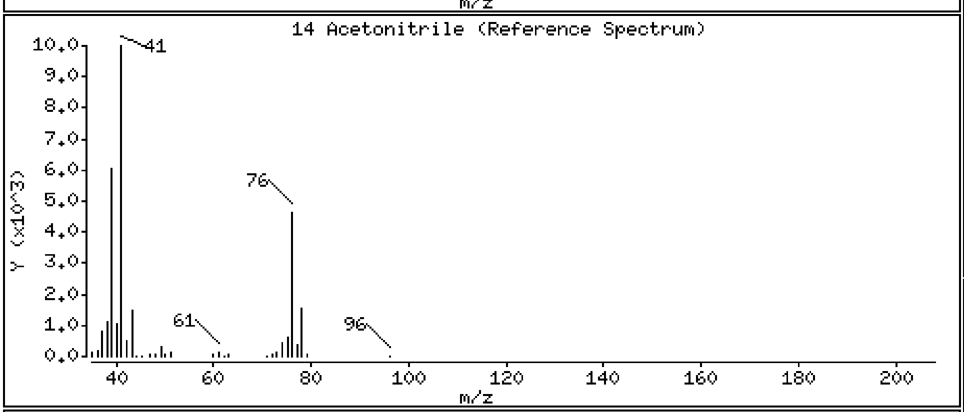
Purge Volume: 5.0 Operator: tkg

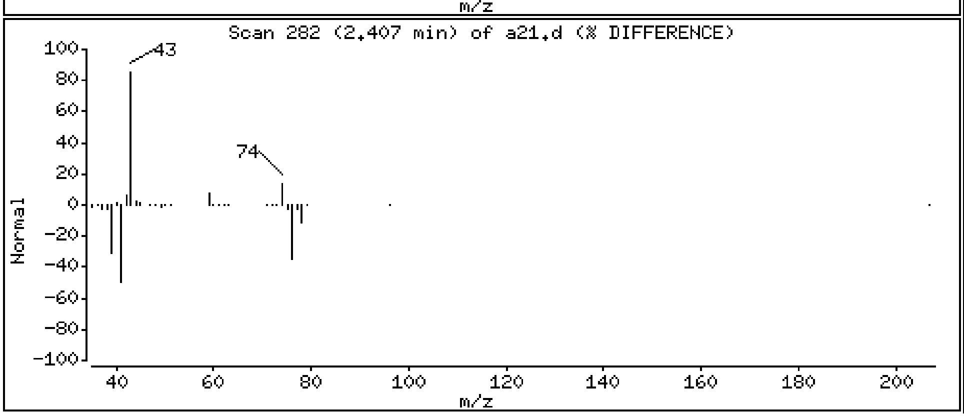
Column phase: DB-624 Column diameter: 0.18

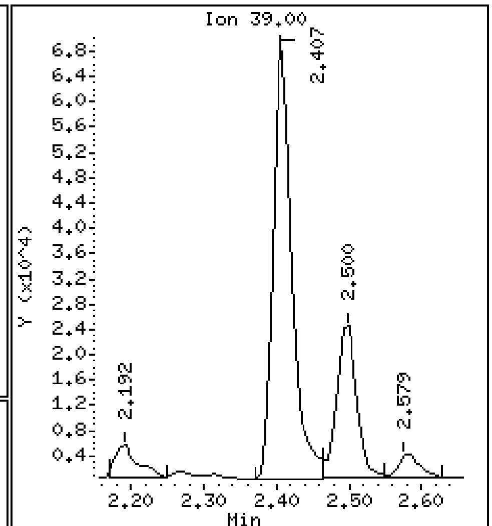
14 Acetonitrile Concentration: 232 ppb Review Code:

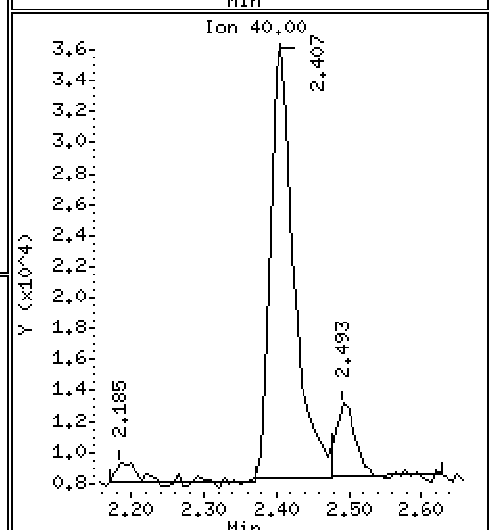


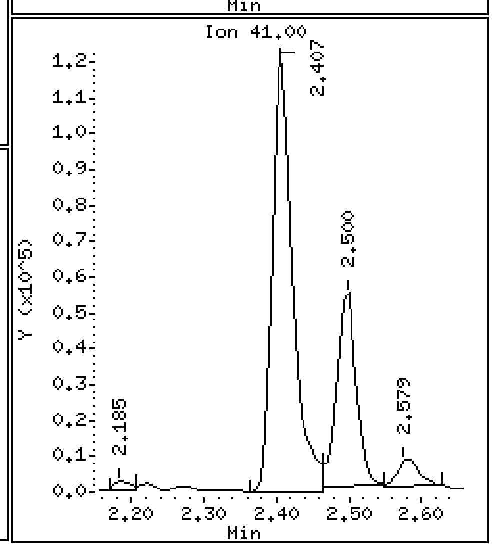












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

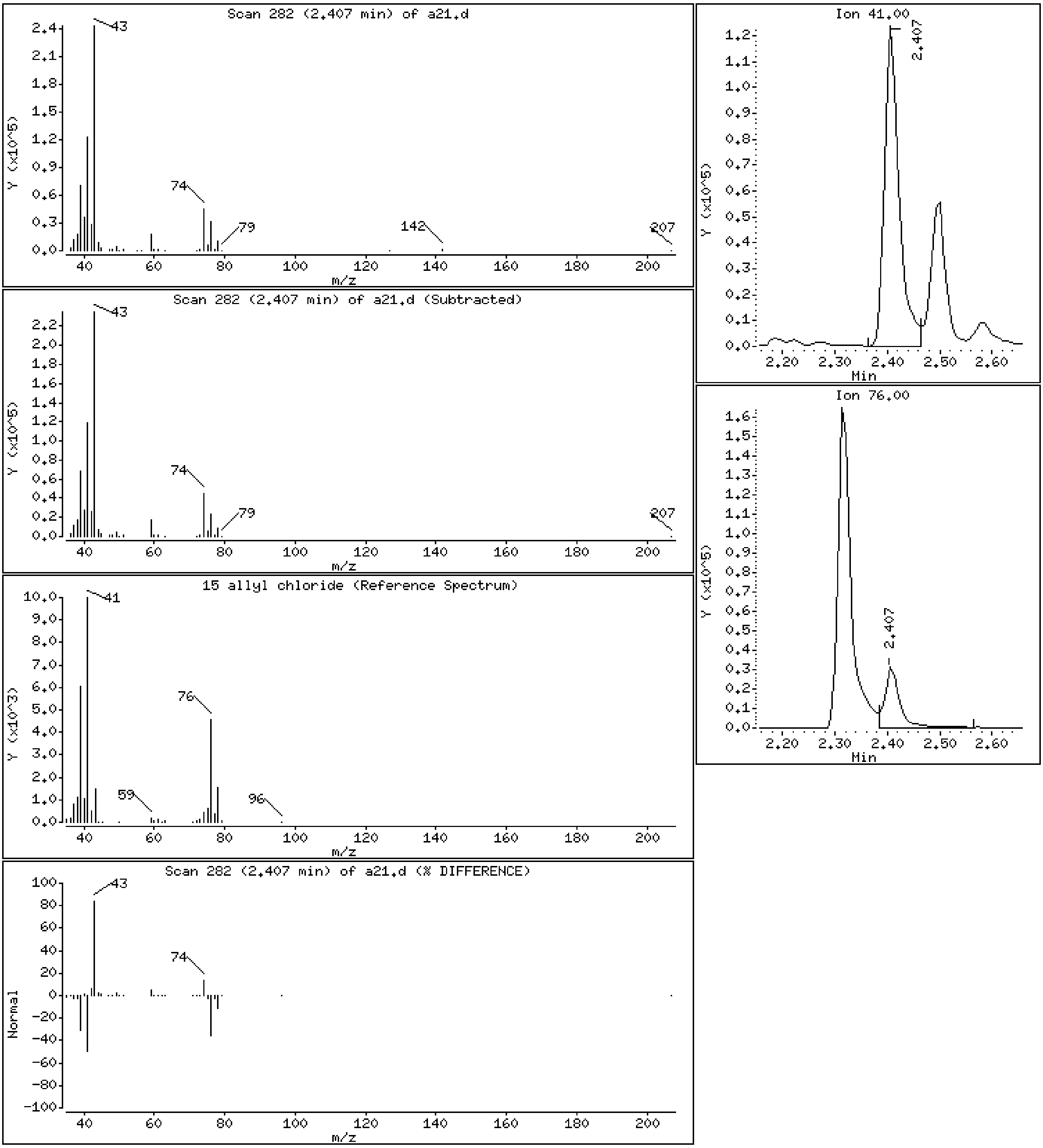
Column phase: DB-624

Column diameter: 0.18

15 allyl chloride

Concentration: 39.8 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

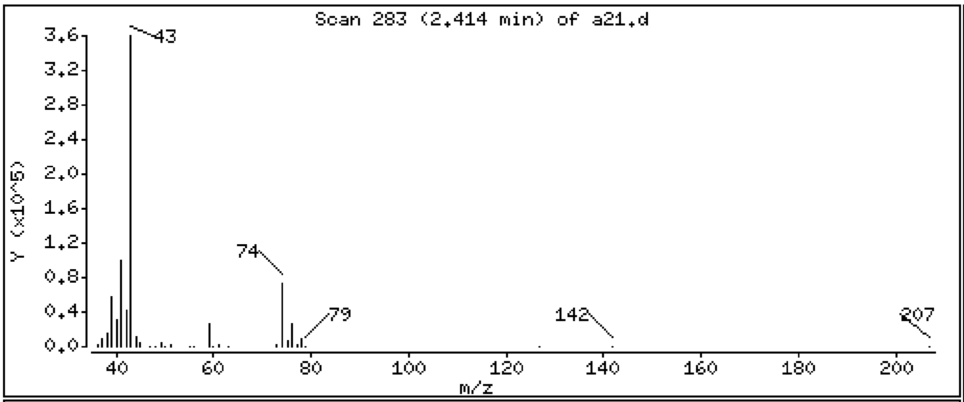
Column phase: DB-624

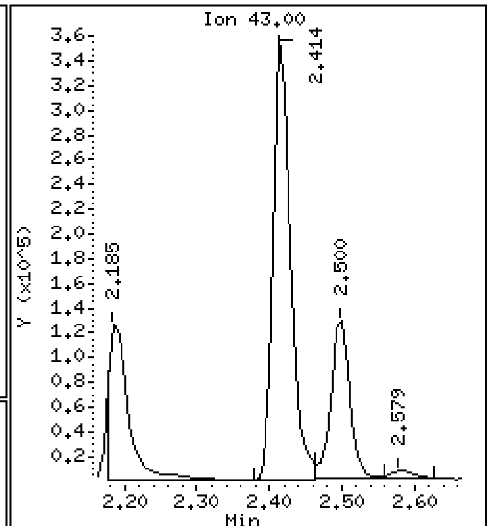
Column diameter: 0.18

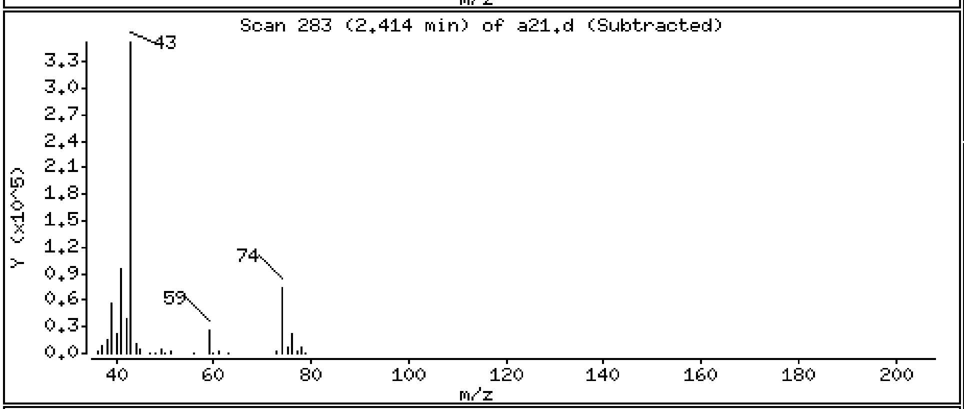
16 Methyl Acetate

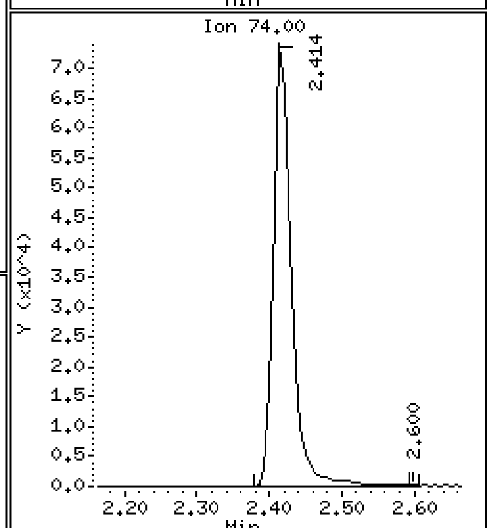
Concentration: 202 ppb

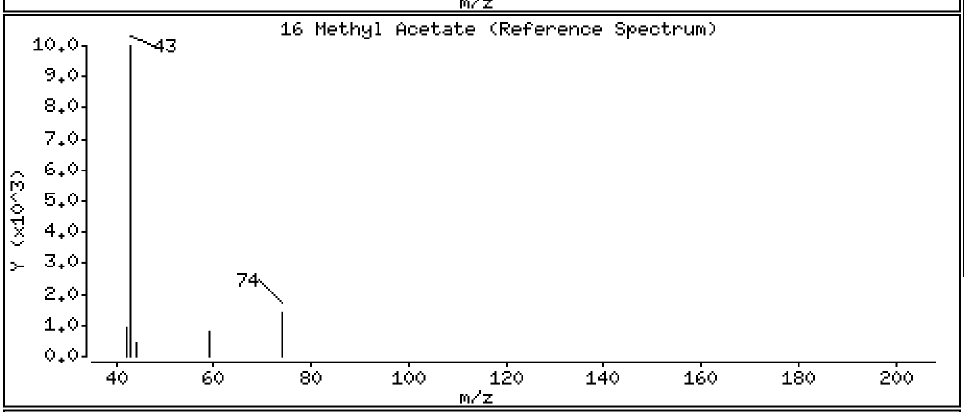
Review Code:

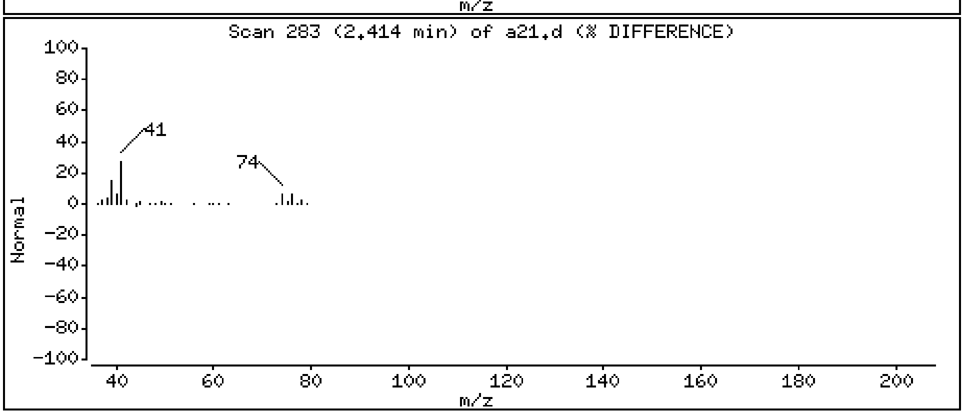












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

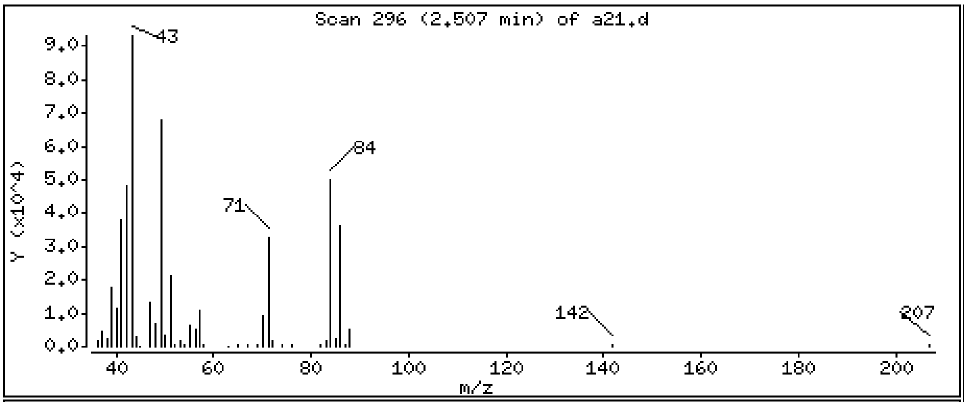
Column phase: DB-624

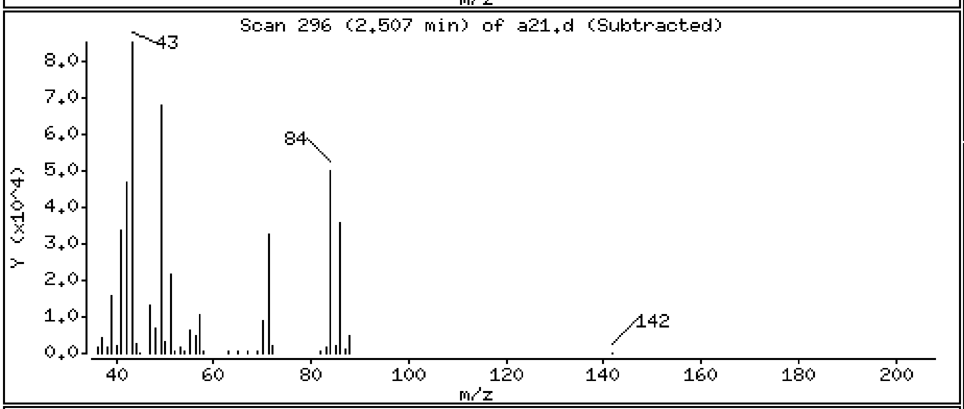
Column diameter: 0.18

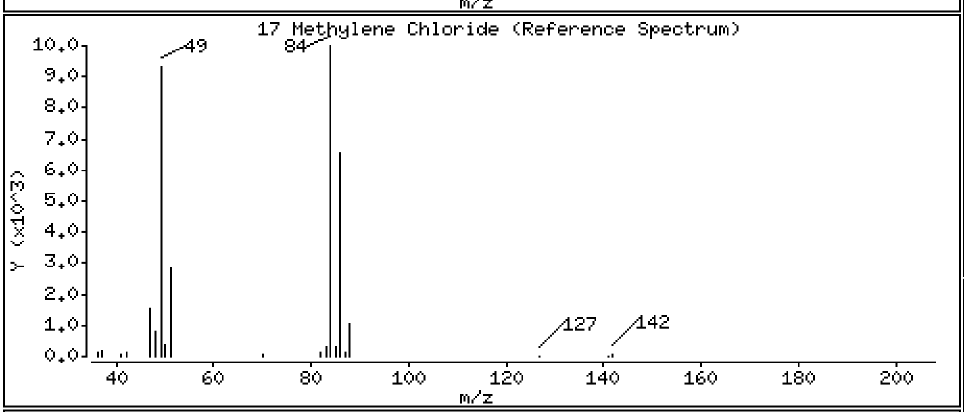
17 Methylene Chloride

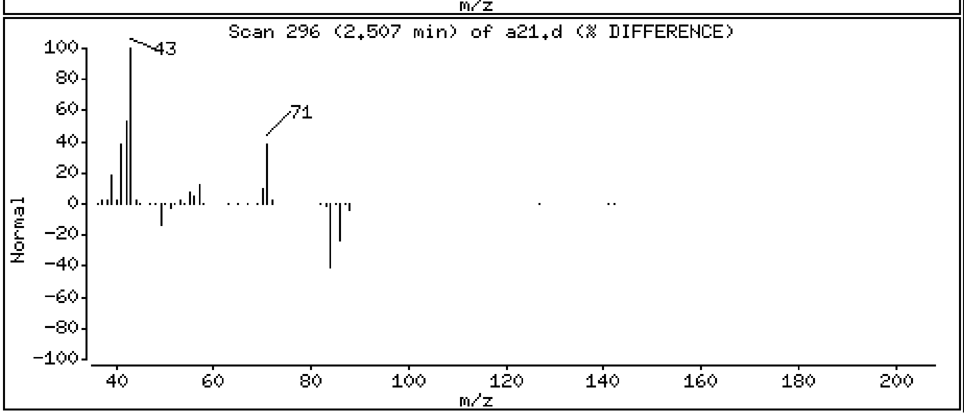
Concentration: 46.0 ppb

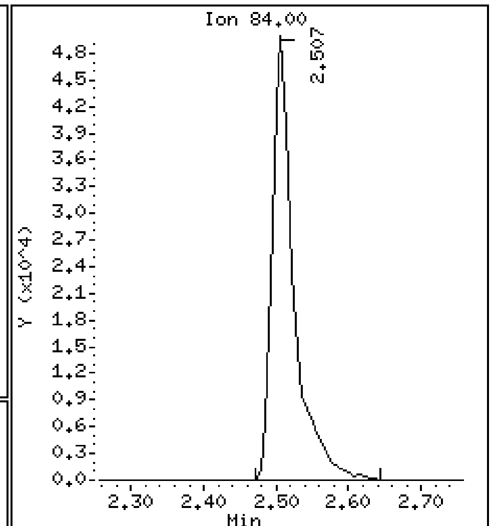
Review Code:

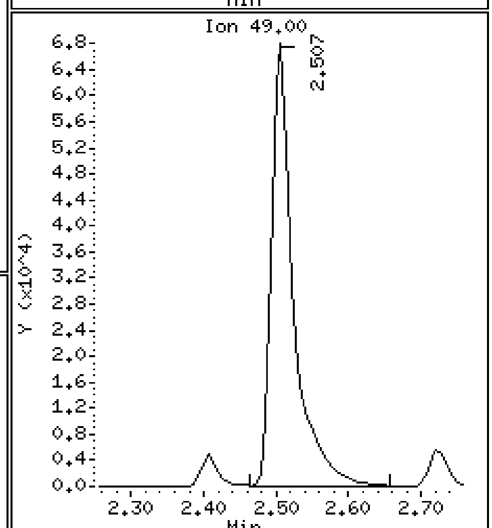


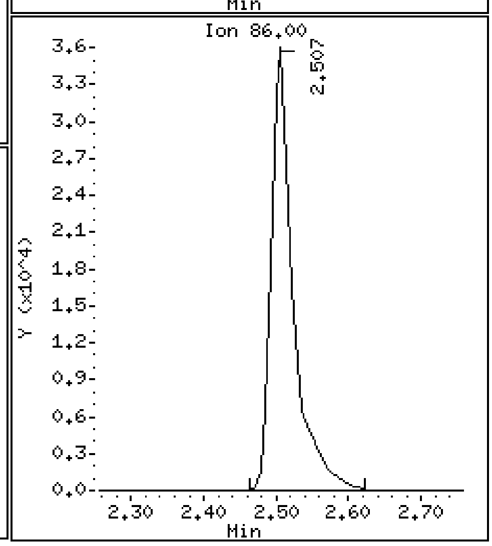












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

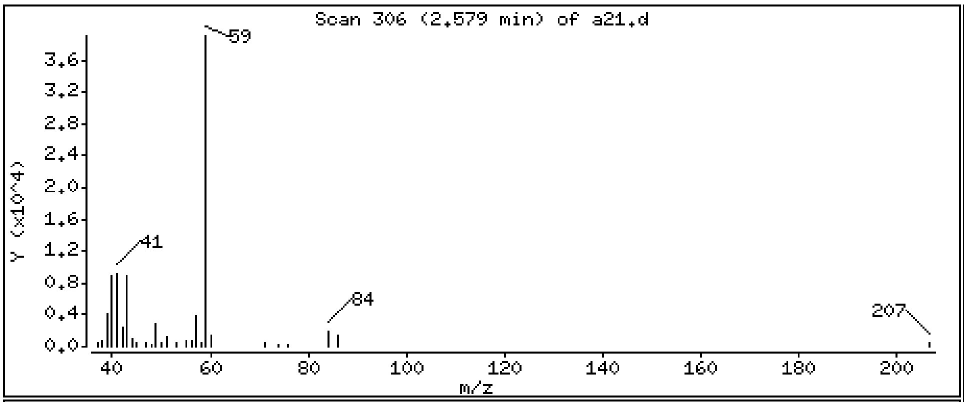
Column phase: DB-624

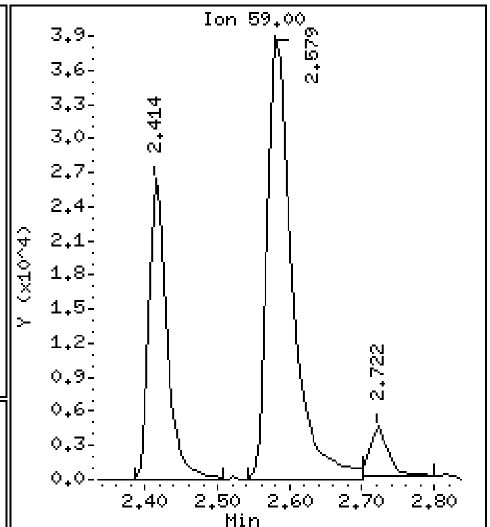
Column diameter: 0.18

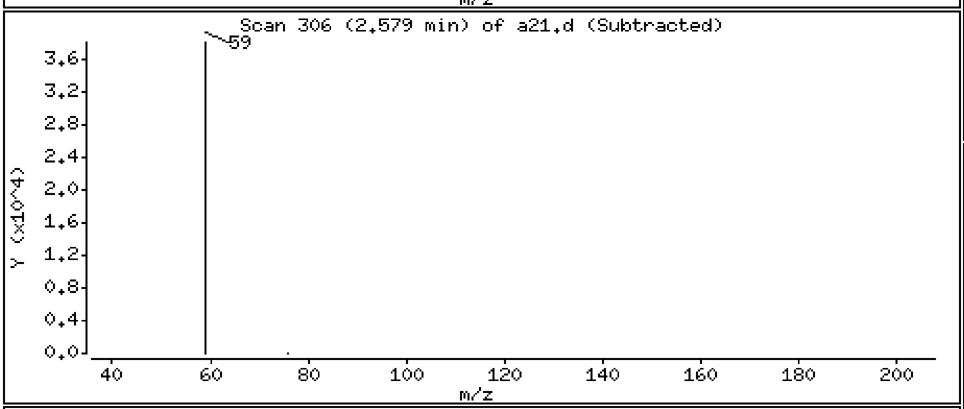
18 tert-Butyl Alcohol

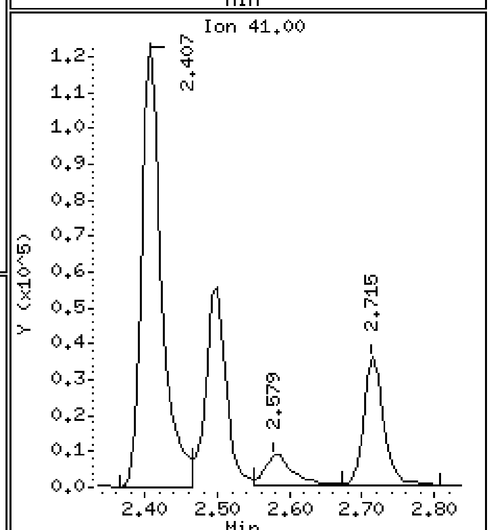
Concentration: 208 ppb

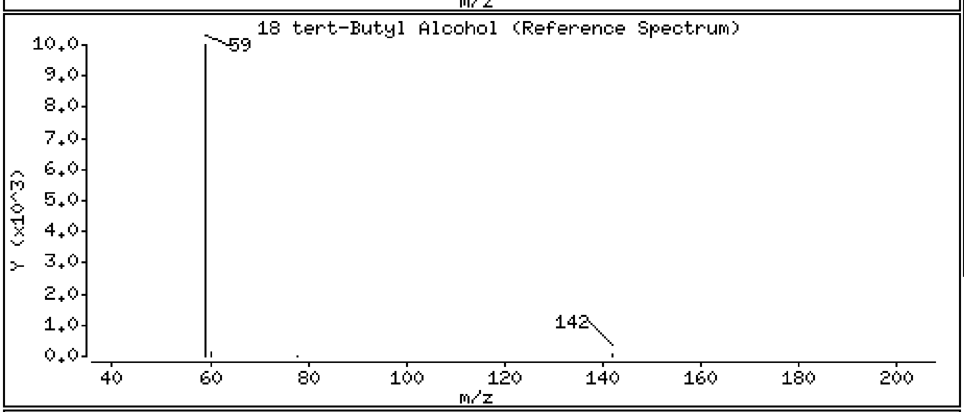
Review Code:

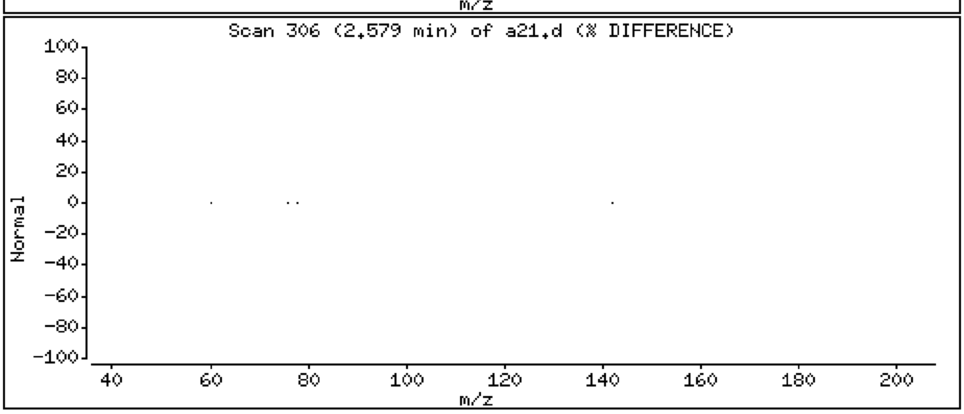












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

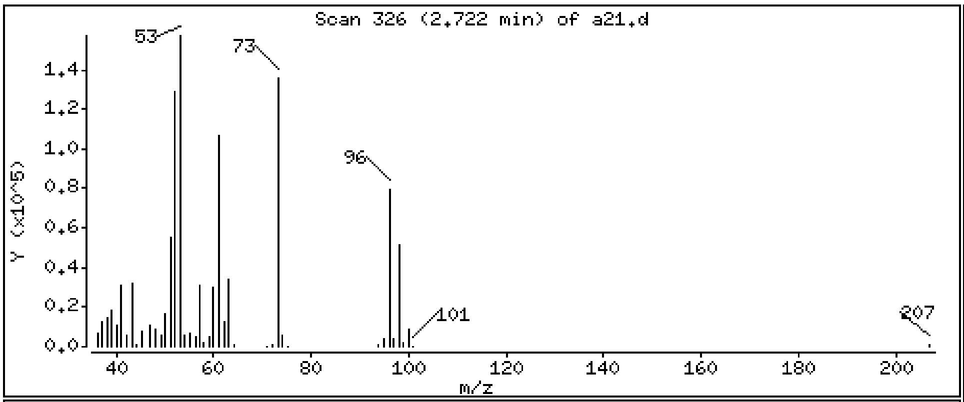
Column phase: DB-624

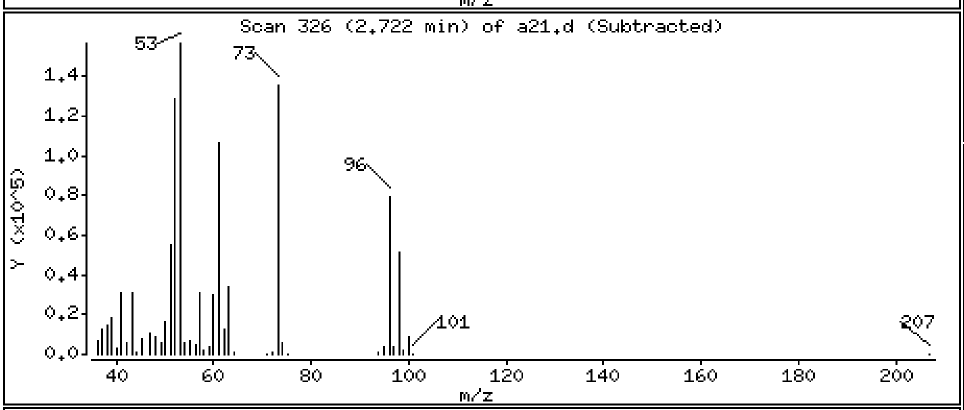
Column diameter: 0.18

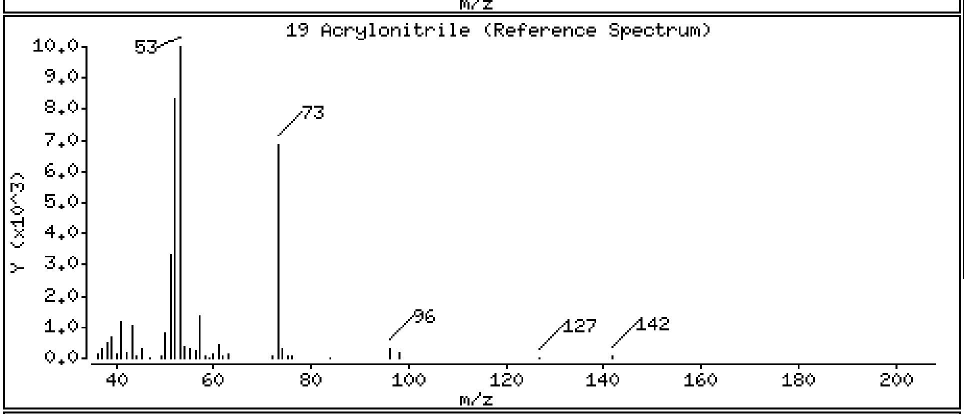
19 Acrylonitrile

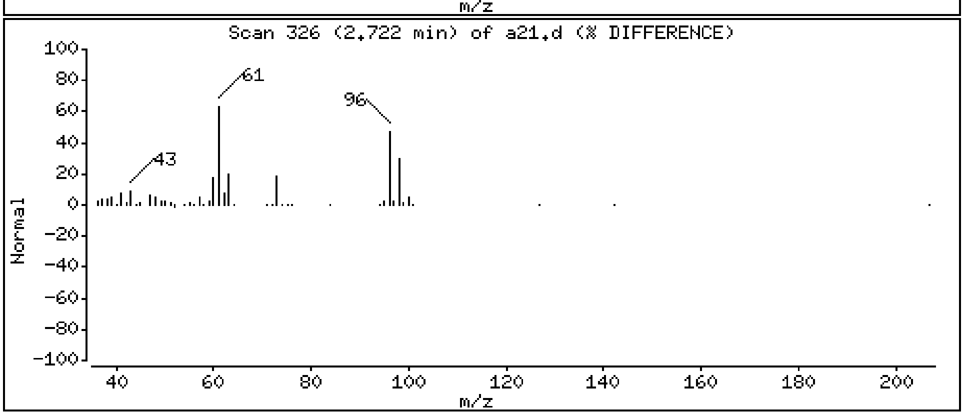
Concentration: 222 ppb

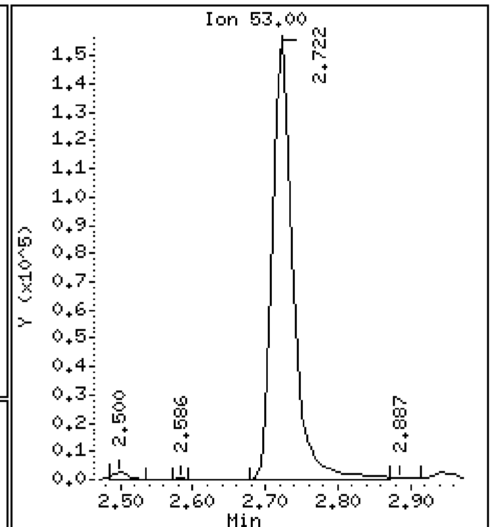
Review Code:

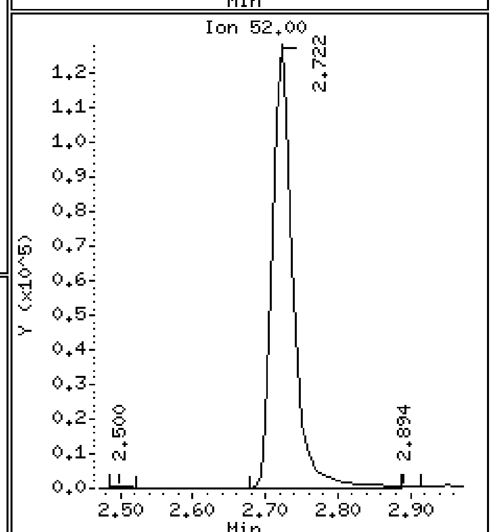












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

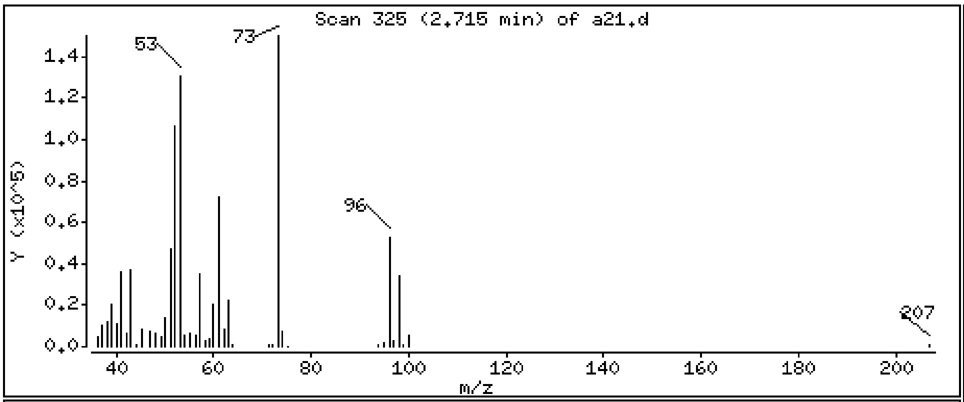
Column phase: DB-624

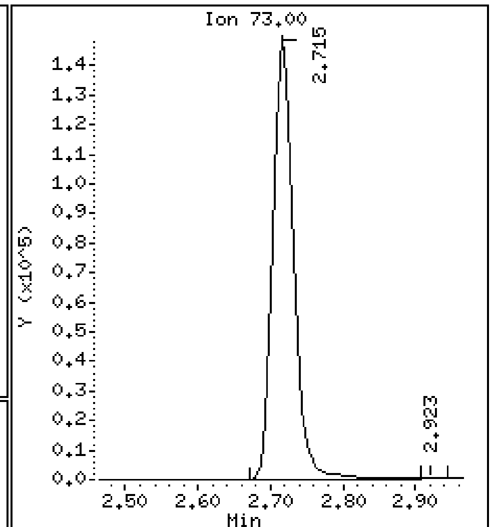
Column diameter: 0.18

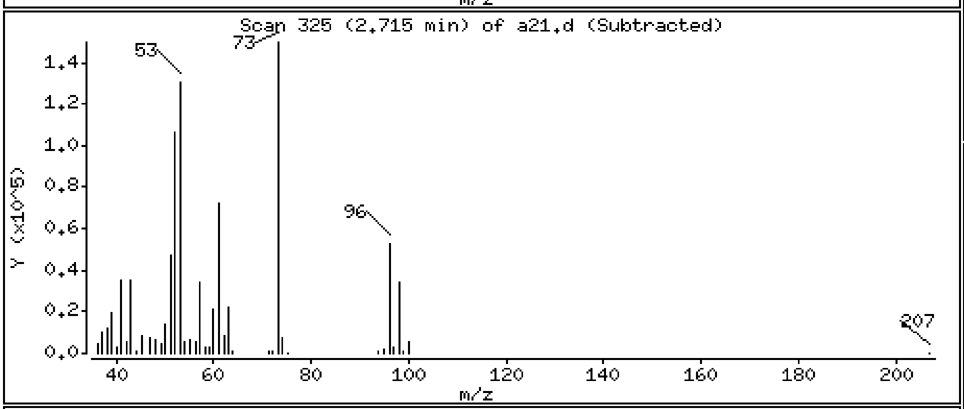
20 Methyl-tert-butyl ether

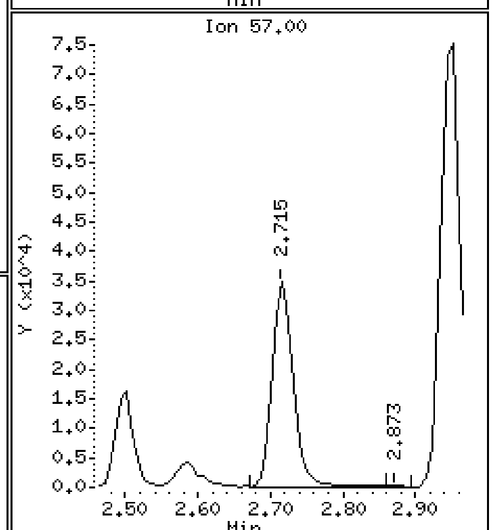
Concentration: 45.4 ppb

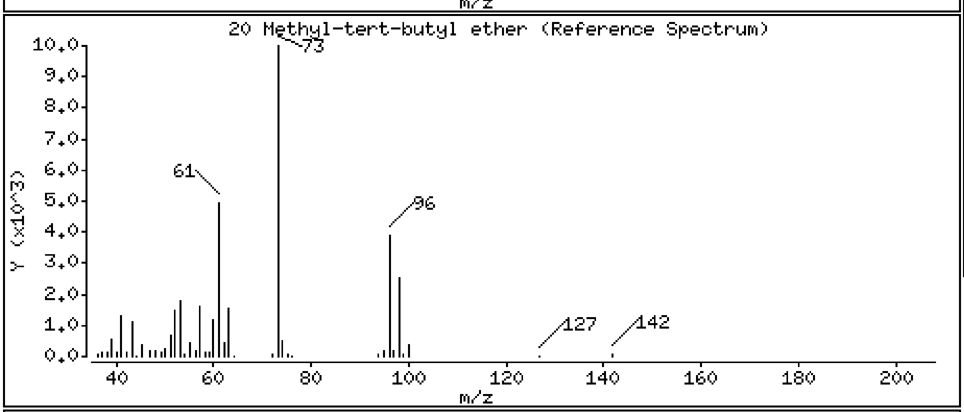
Review Code:

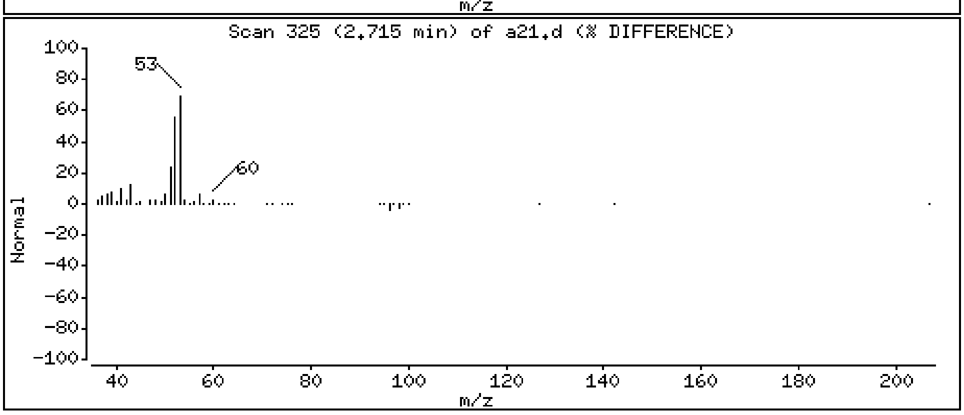












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d	Page 25

Date : 23-JAN-2023 19:36

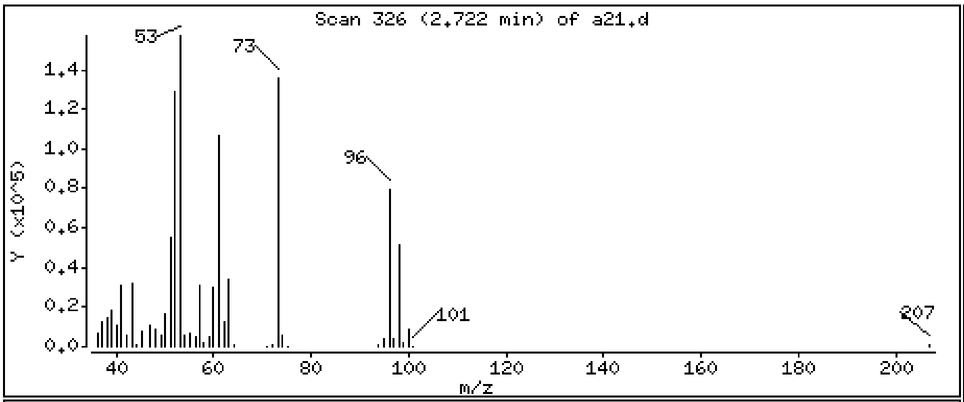
Client ID: LA2268MS	Instrument: 50mvda.i

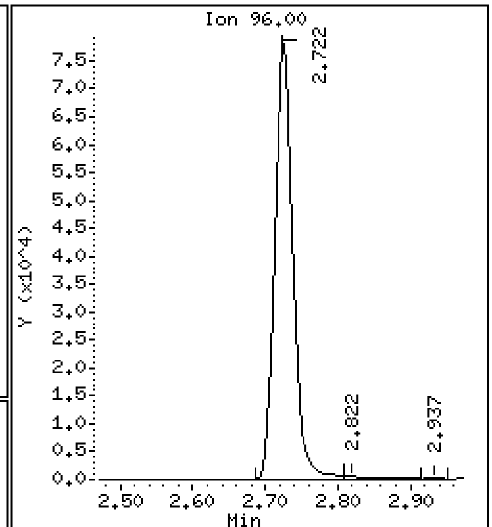
Sample Info: 3287469,336256:5

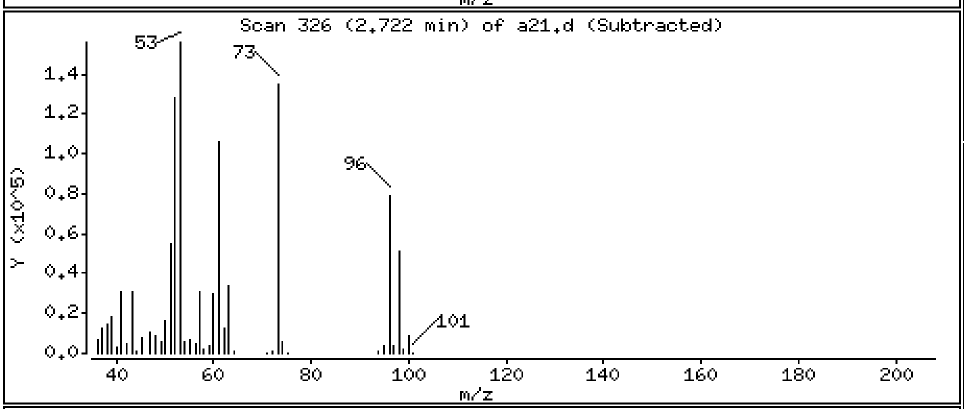
Purge Volume: 5.0	Operator: tkg

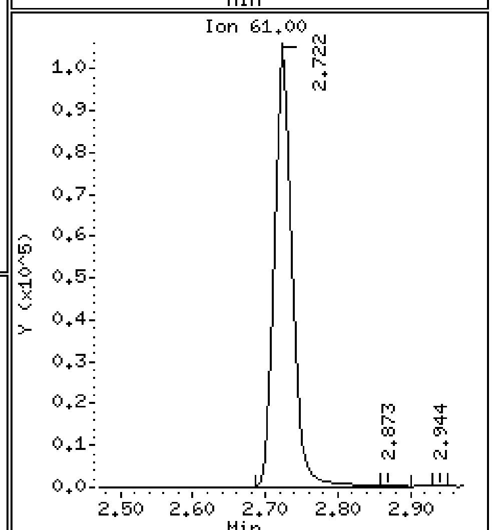
Column phase: DB-624	Column diameter: 0.18

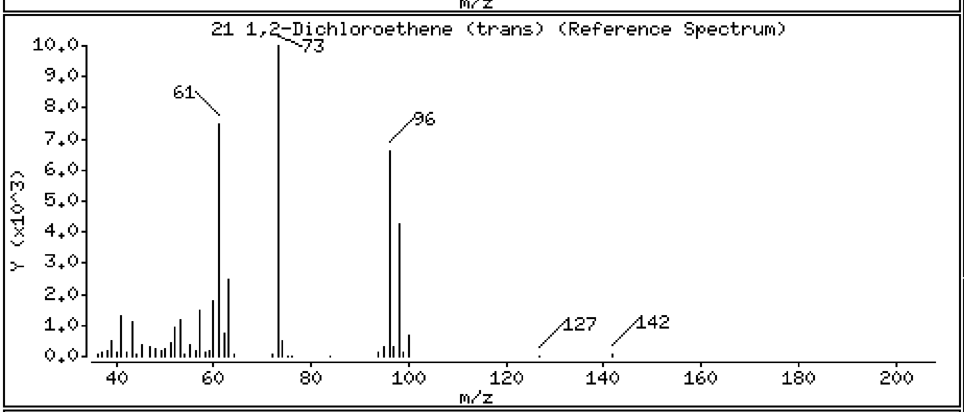
21 1,2-Dichloroethene (trans)	Concentration: 53.5 ppb	Review Code:

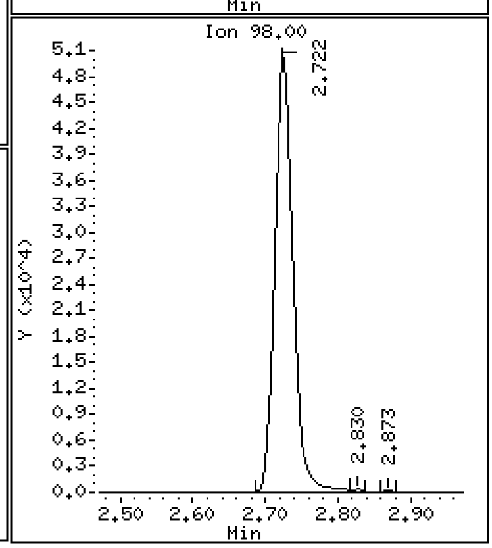


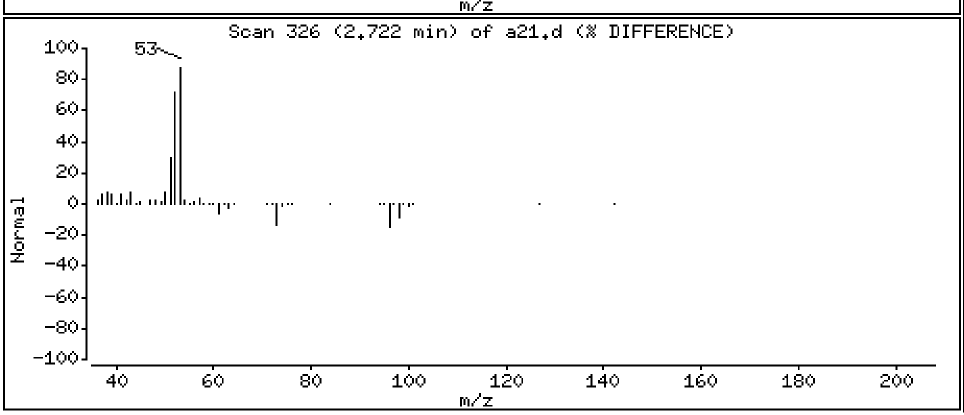












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

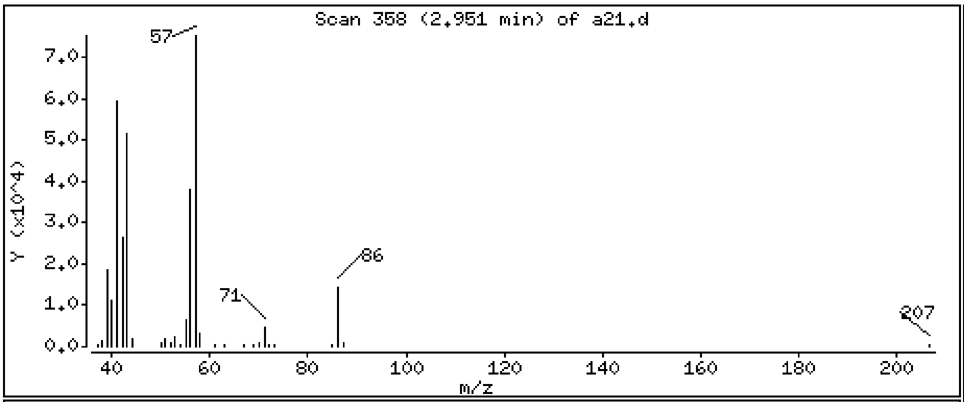
Column phase: DB-624

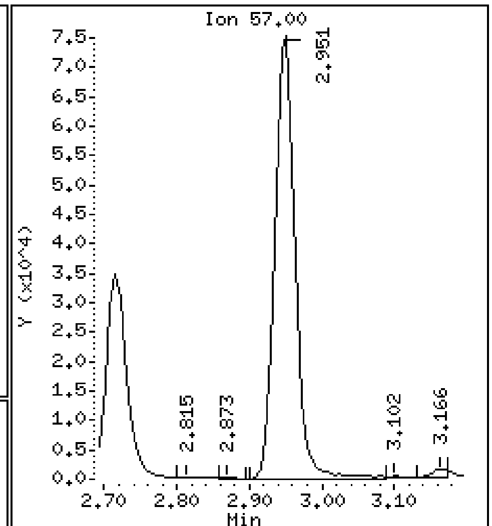
Column diameter: 0.18

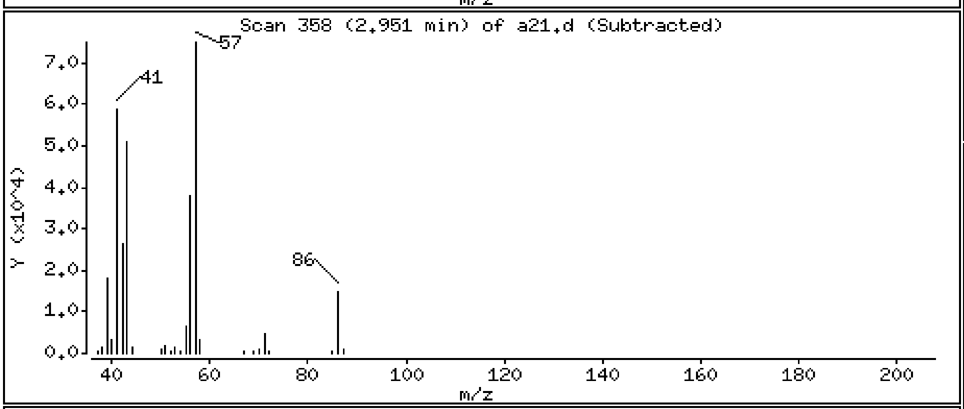
22 n-Hexane

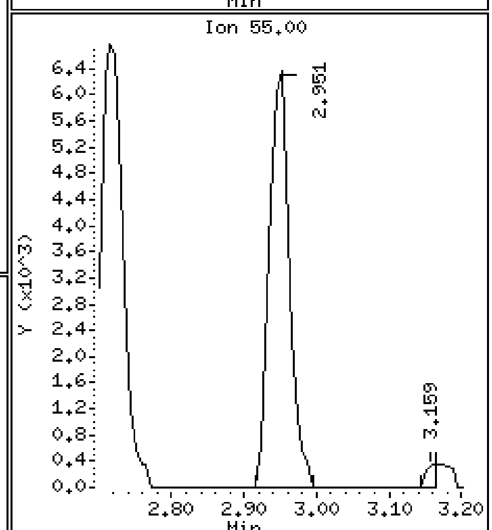
Concentration: 36.8 ppb

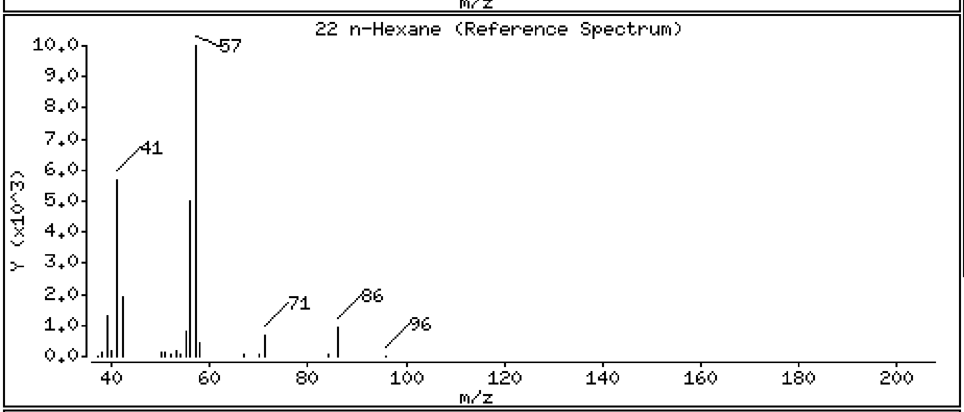
Review Code:

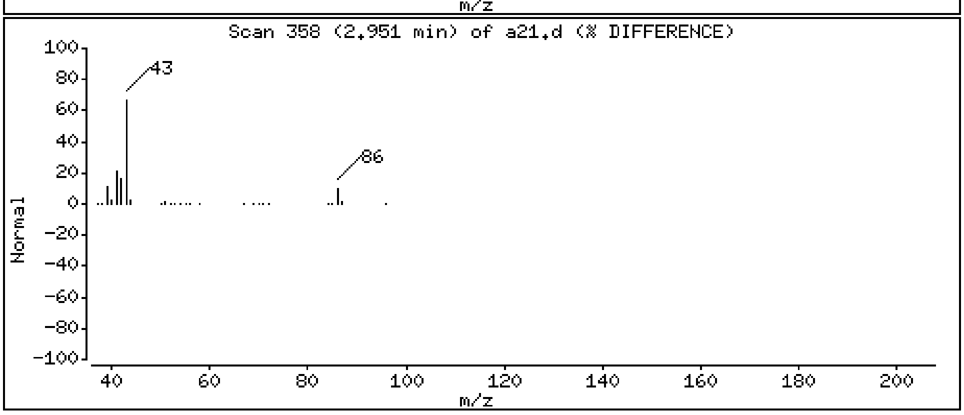












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

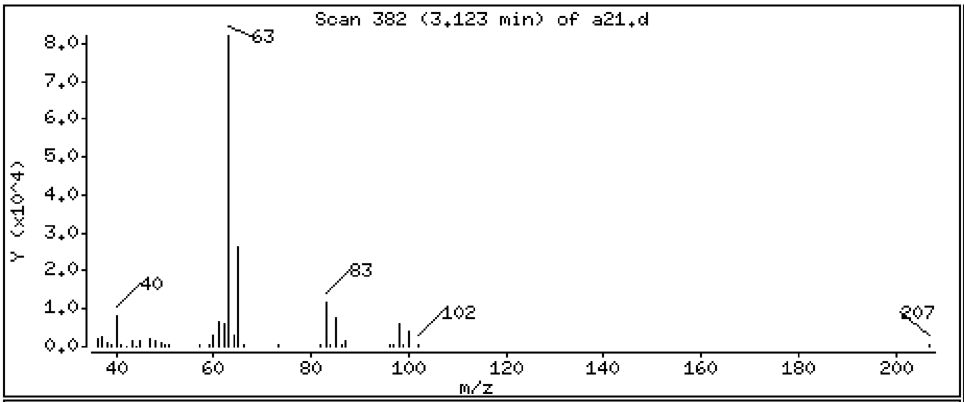
Column phase: DB-624

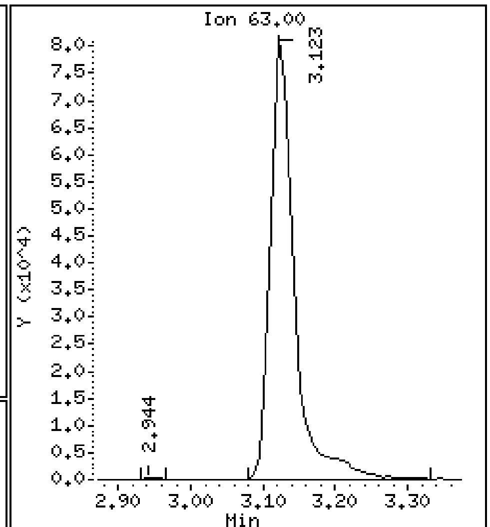
Column diameter: 0.18

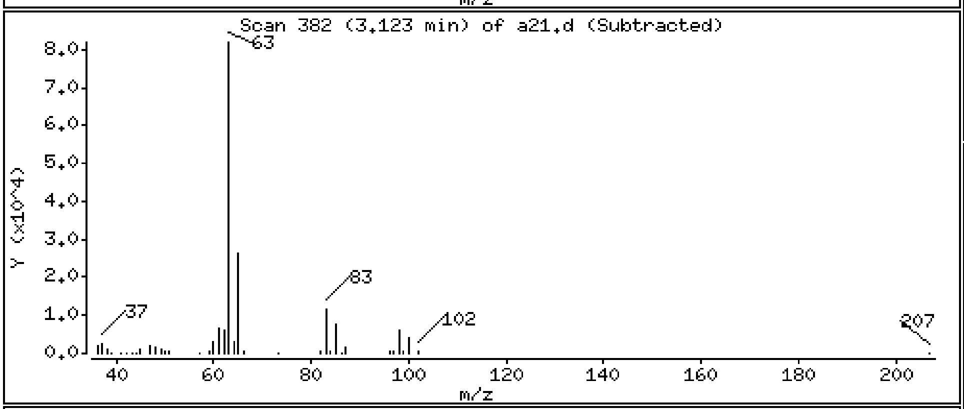
23 1,1-Dichloroethane

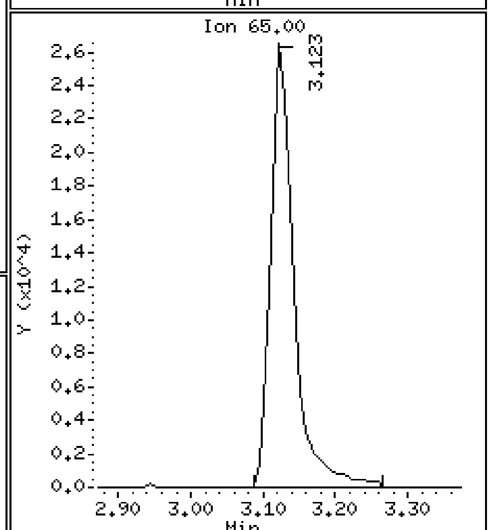
Concentration: 46.9 ppb

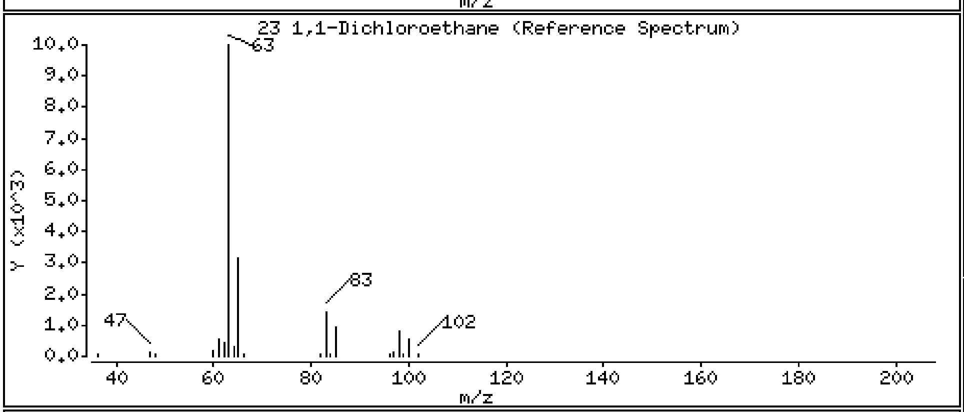
Review Code:

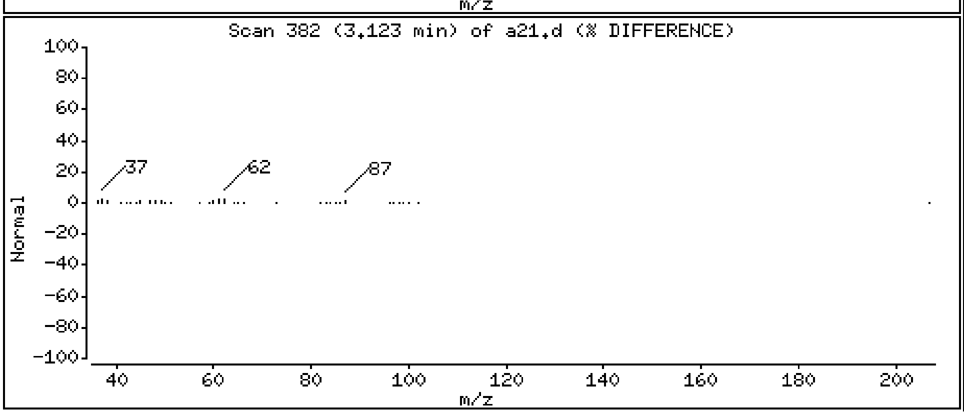


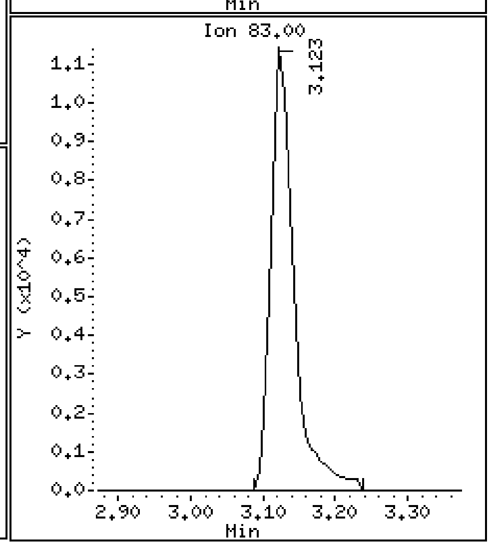












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Date : 23-JAN-2023 19:36

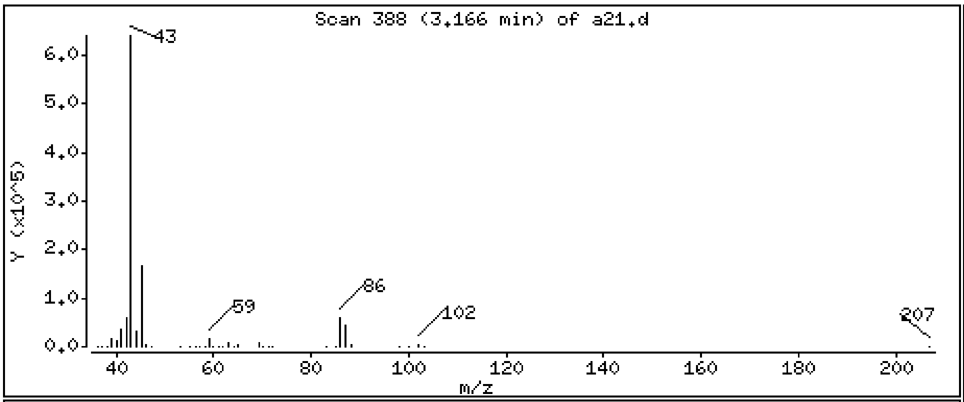
Client ID: LA2268MS Instrument: 50mvda.i

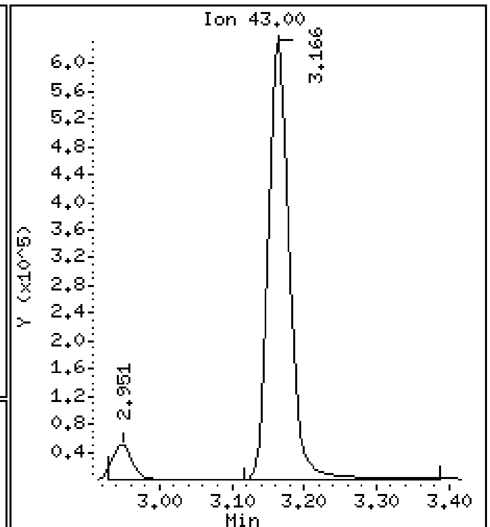
Sample Info: 3287469,336256:5

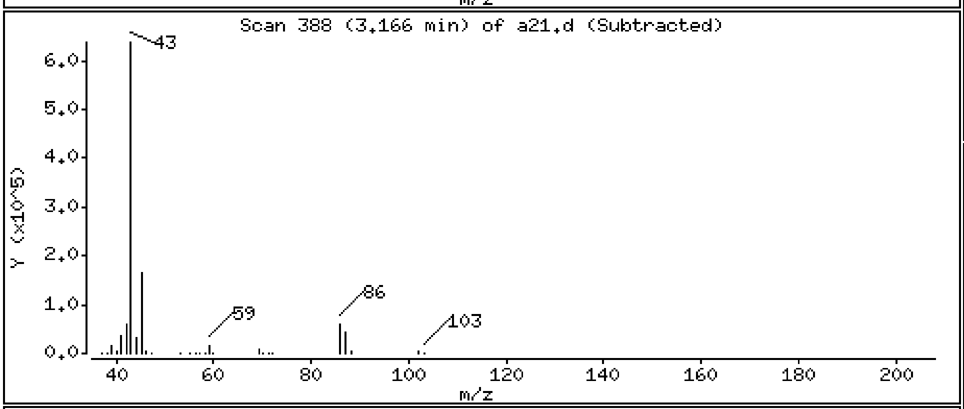
Purge Volume: 5.0 Operator: tkg

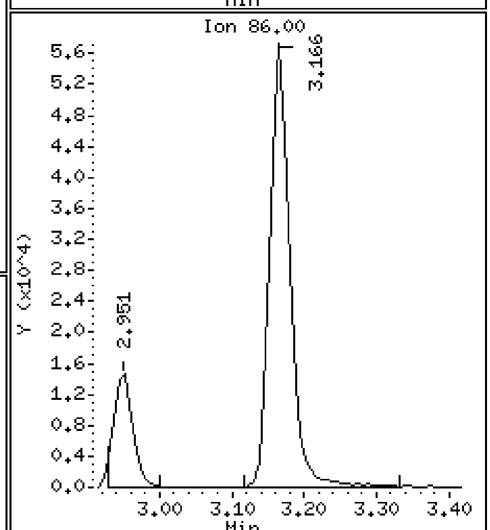
Column phase: DB-624 Column diameter: 0.18

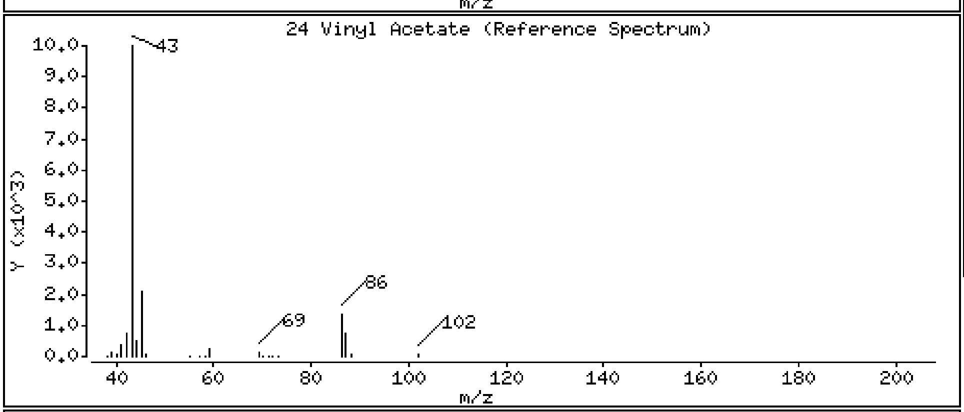
24 Vinyl Acetate Concentration: 183 ppb Review Code:

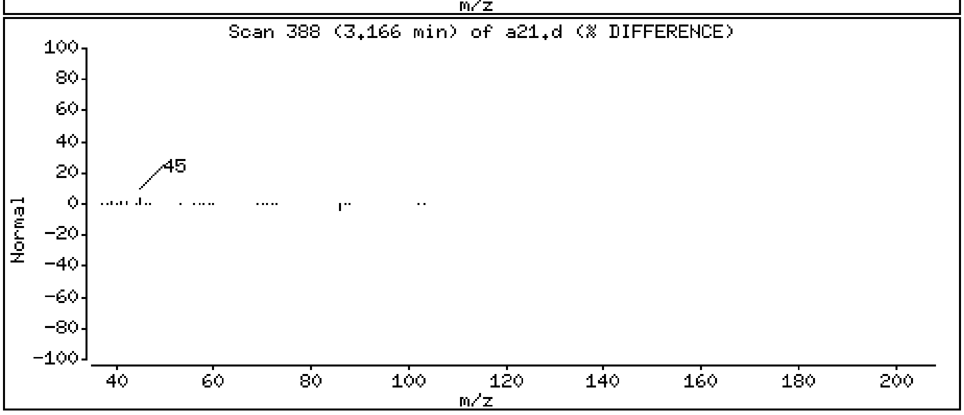












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

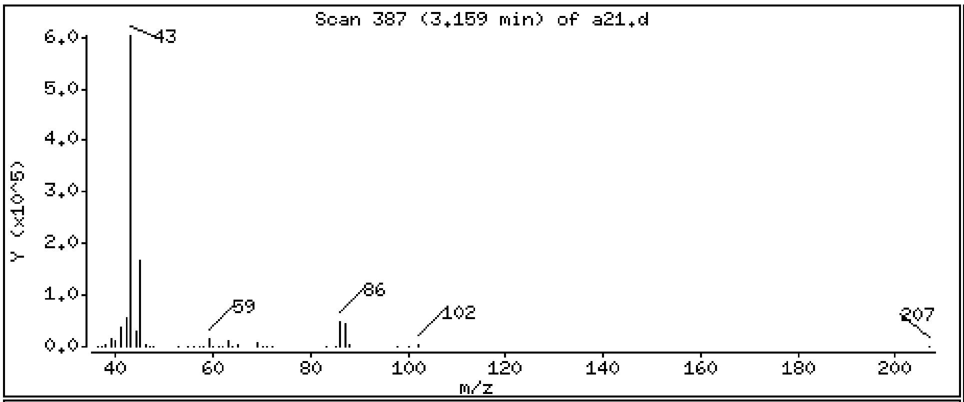
Column phase: DB-624

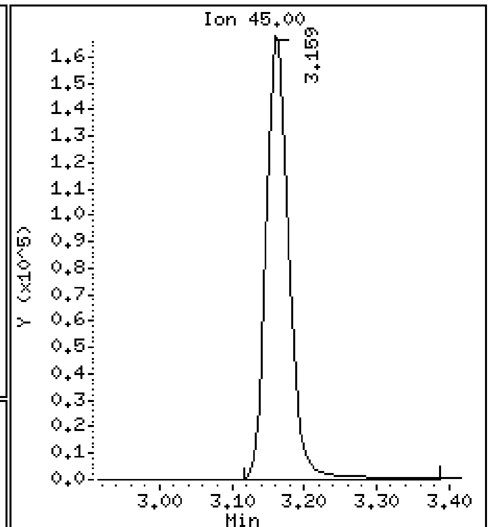
Column diameter: 0.18

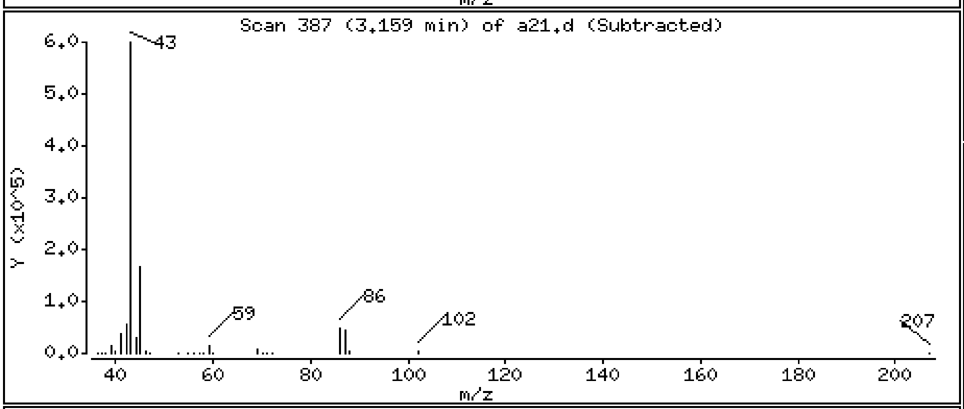
25 Diisopropyl ether

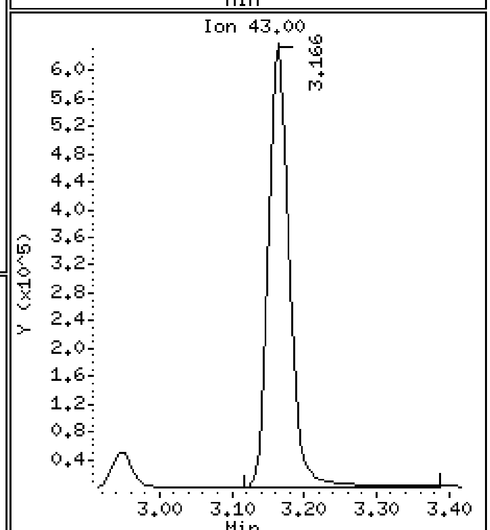
Concentration: 44.2 ppb

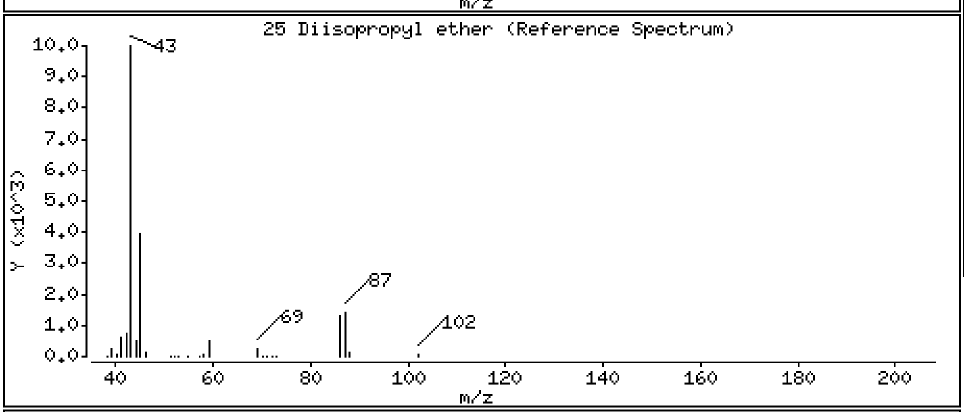
Review Code:

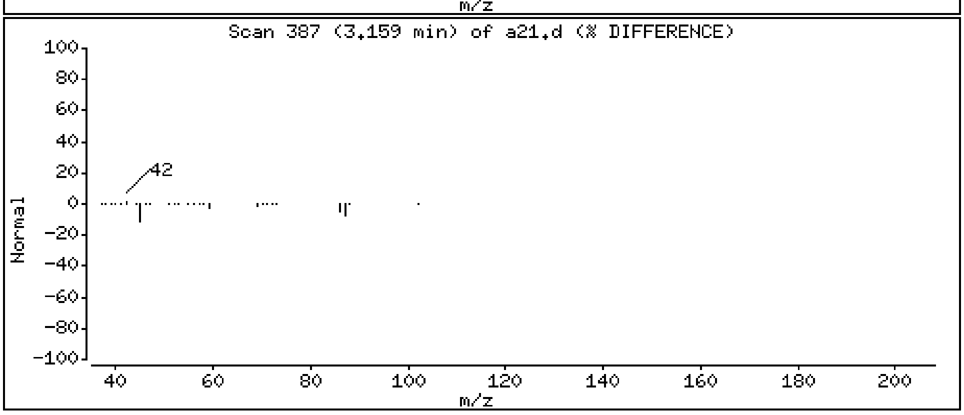












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

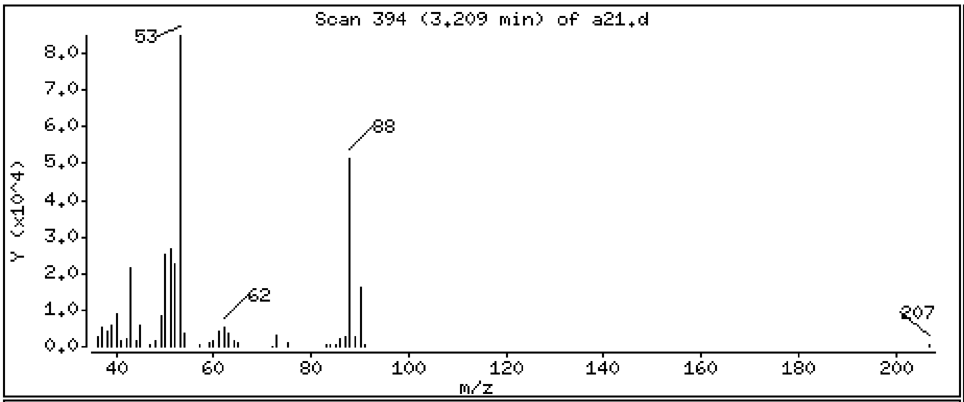
Column phase: DB-624

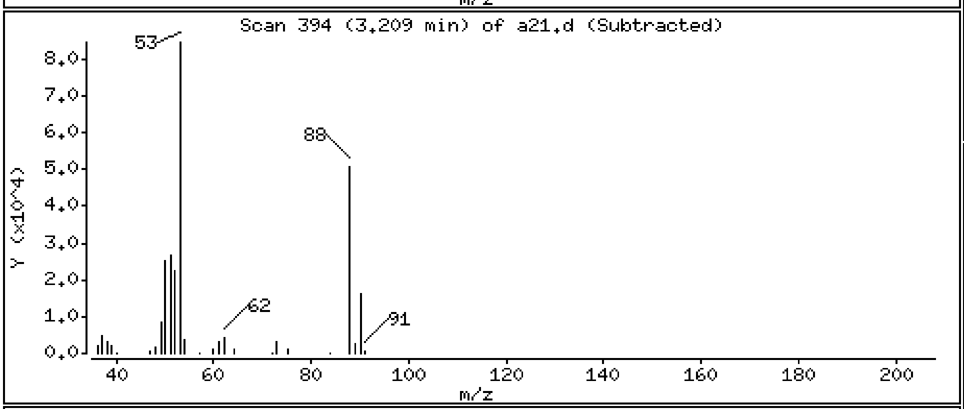
Column diameter: 0.18

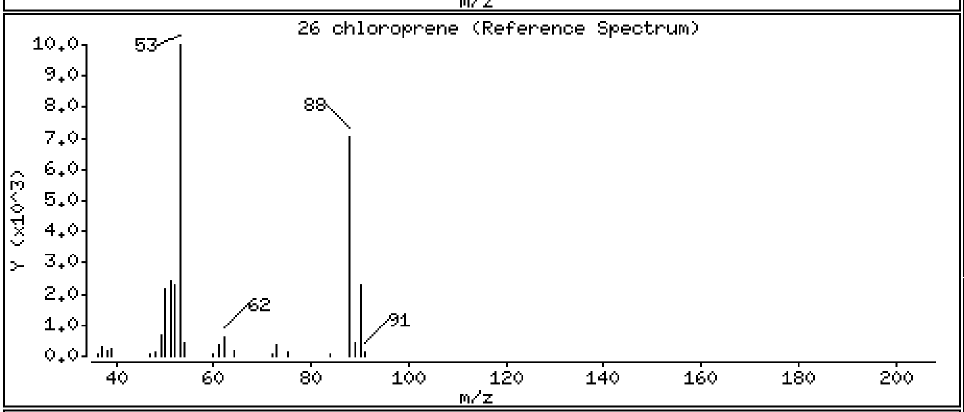
26 chloroprene

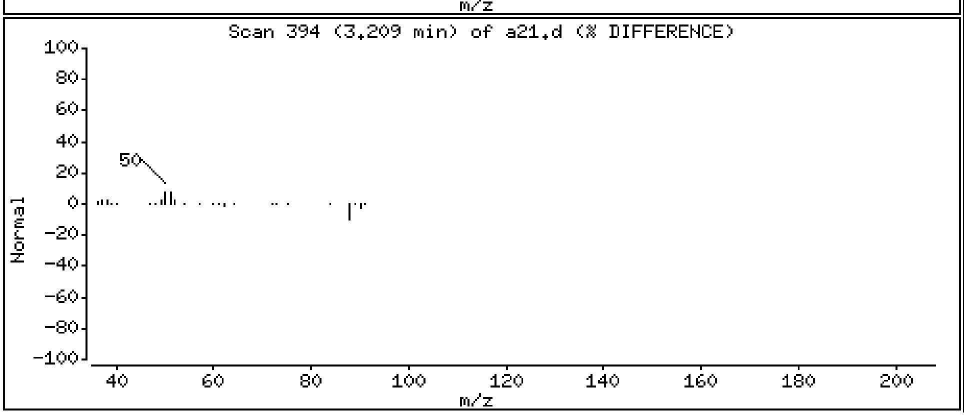
Concentration: 49.1 ppb

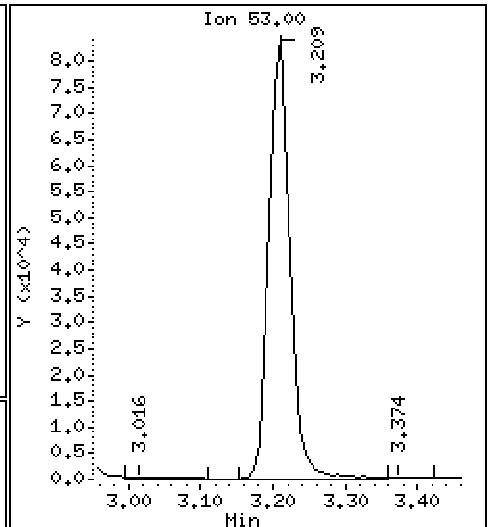
Review Code:

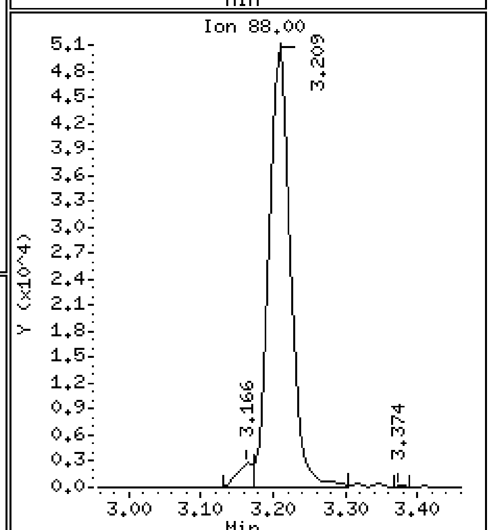


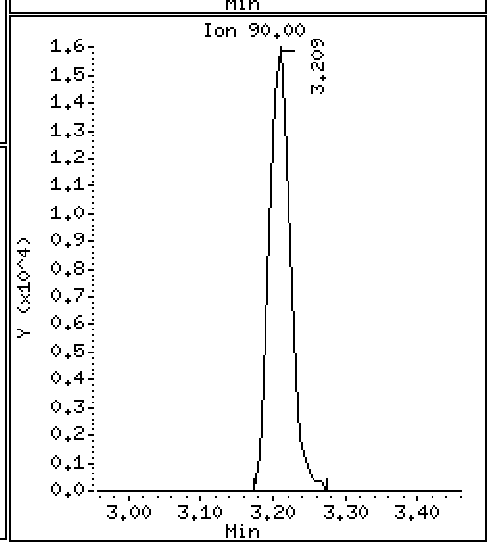












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

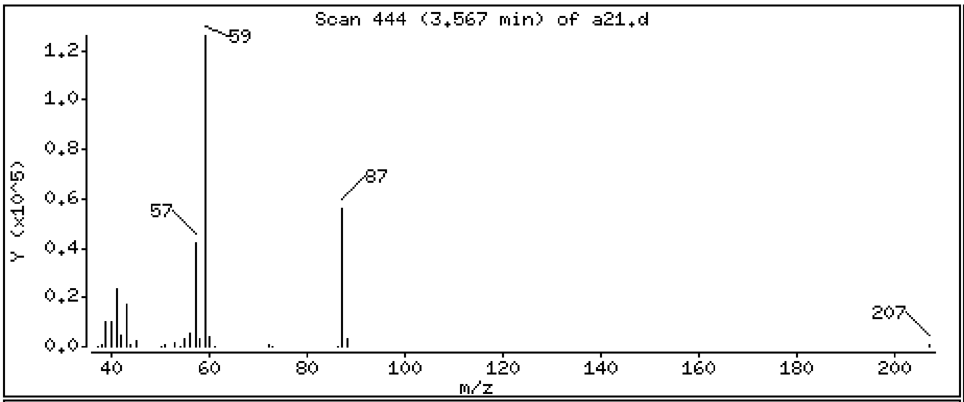
Column phase: DB-624

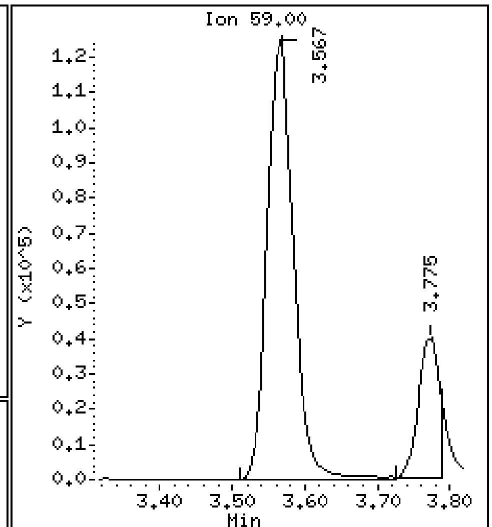
Column diameter: 0.18

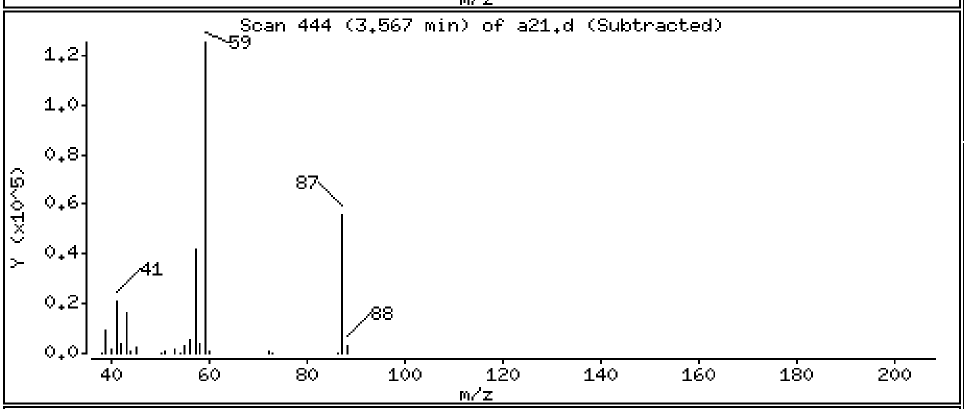
27 Ethyl-tert-butyl ether

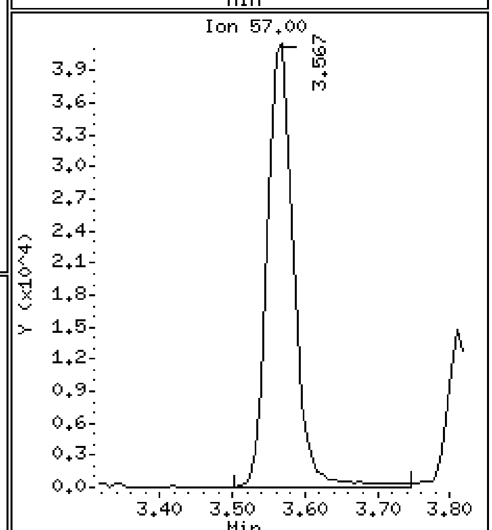
Concentration: 45.5 ppb

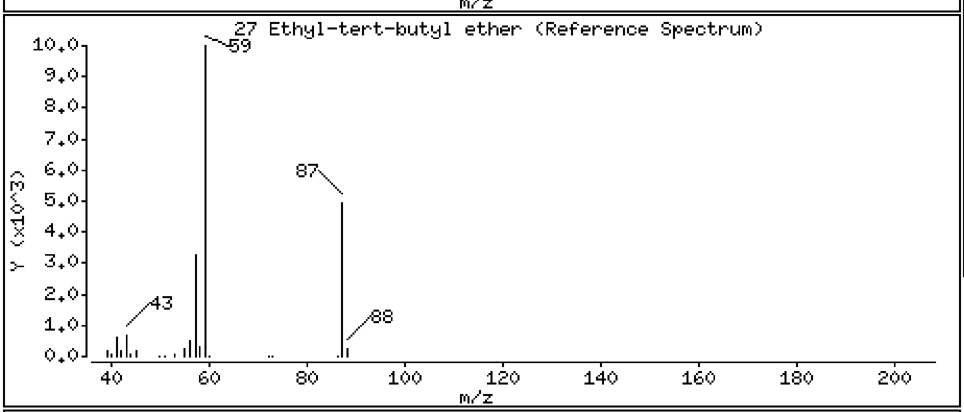
Review Code:

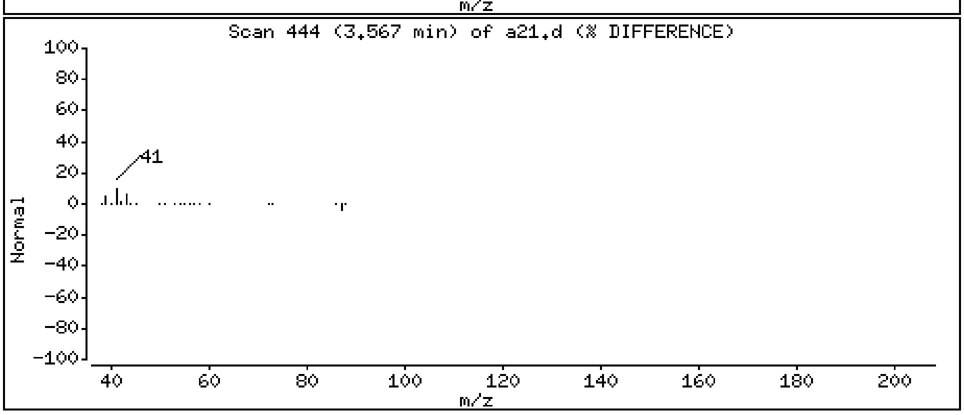












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Date : 23-JAN-2023 19:36

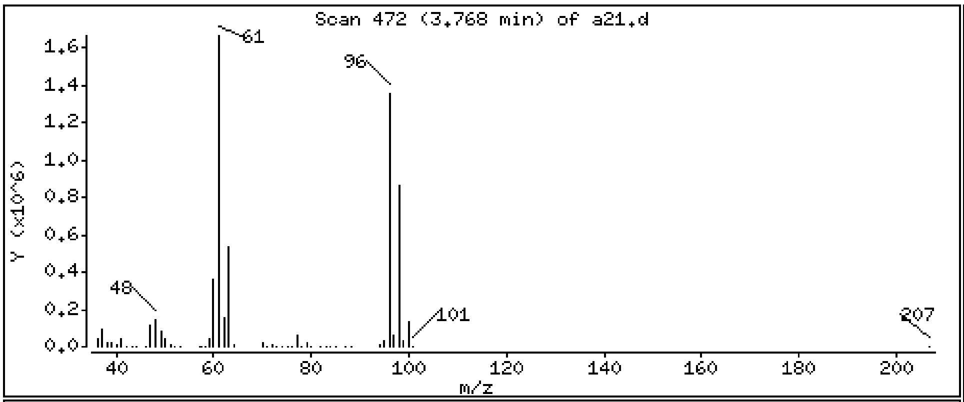
Client ID: LA2268MS | Instrument: 50mvda.i

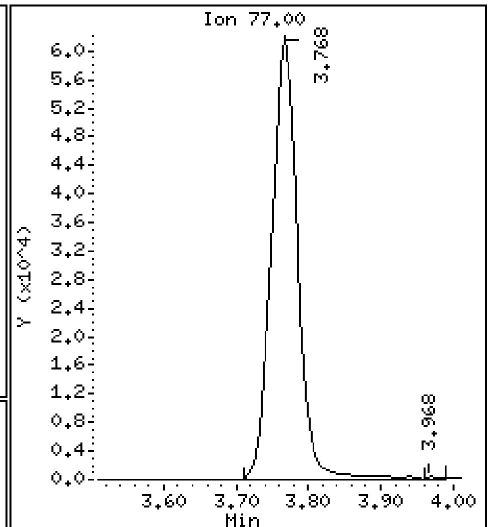
Sample Info: 3287469,336256:5

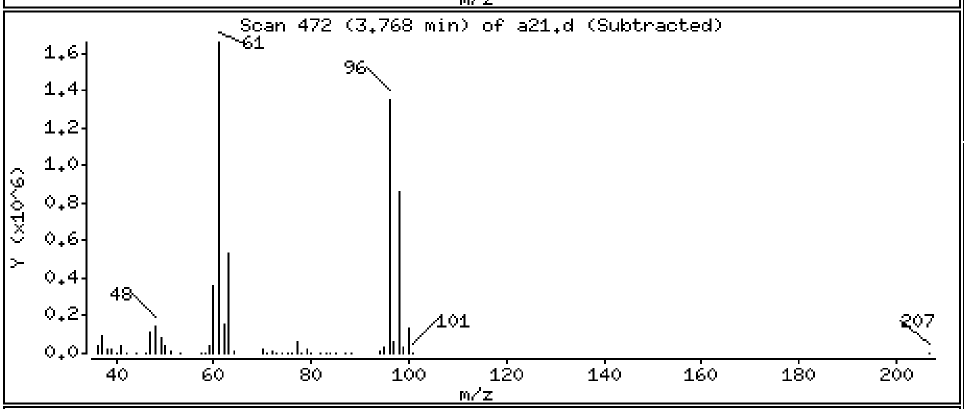
Purge Volume: 5.0 | Operator: tkg

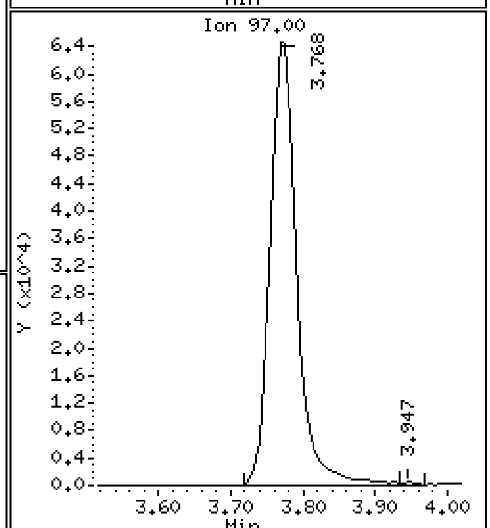
Column phase: DB-624 | Column diameter: 0.18

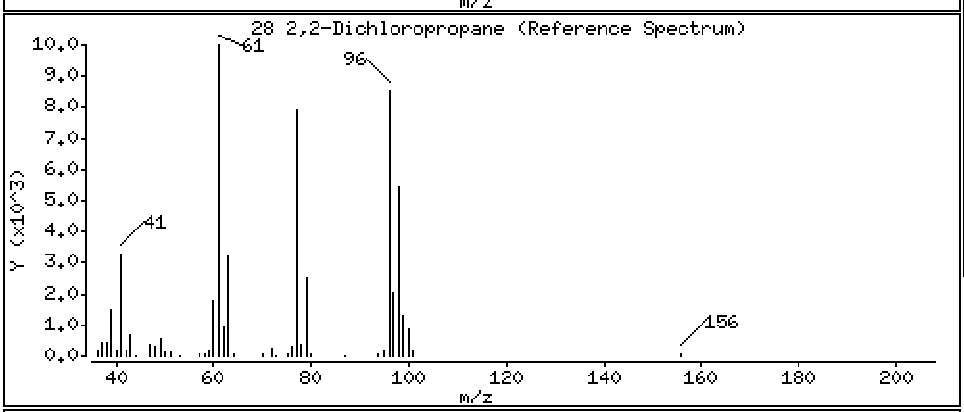
28 2,2-Dichloropropane | Concentration: 48.6 ppb | Review Code:

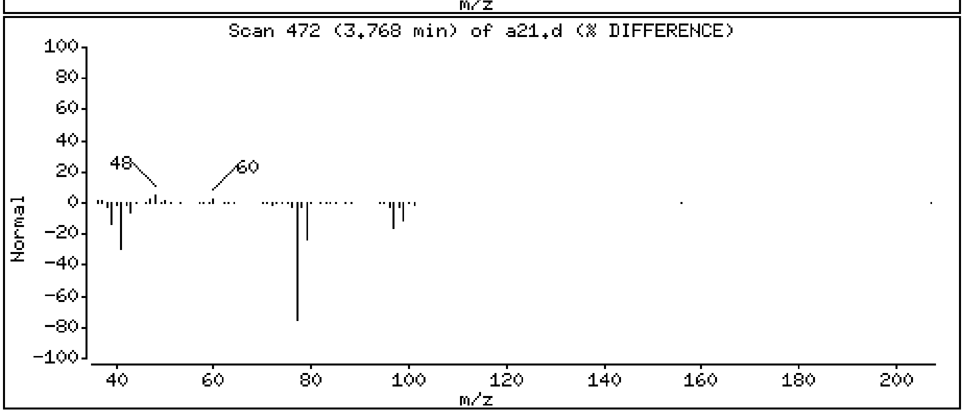












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

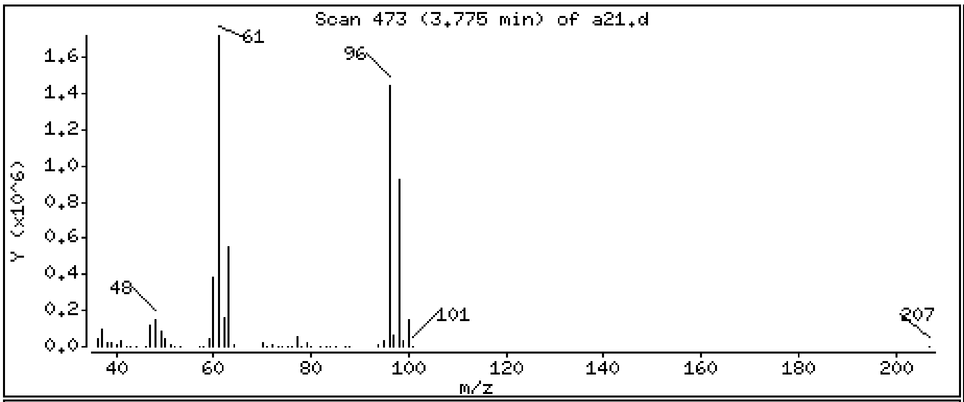
Column phase: DB-624

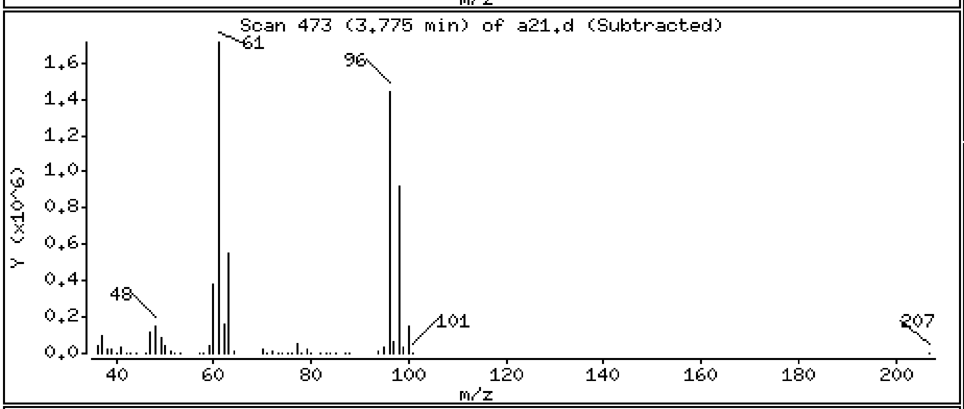
Column diameter: 0.18

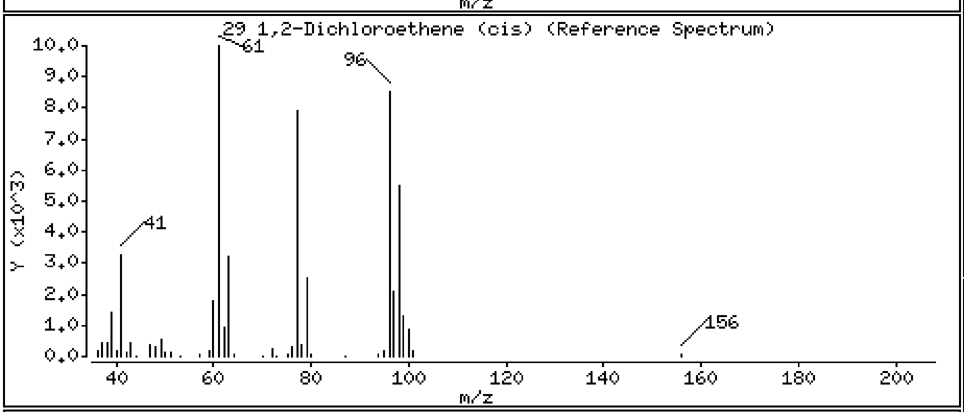
29 1,2-Dichloroethene (cis)

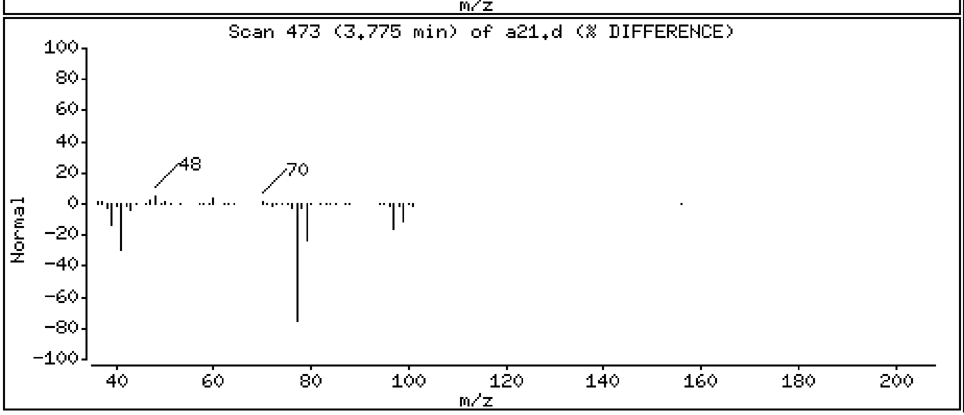
Concentration: 1230 ppb

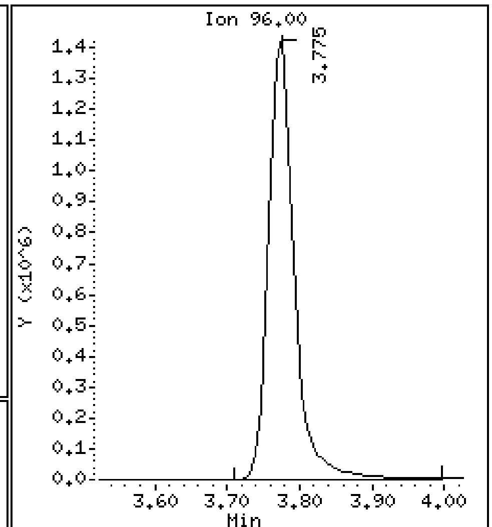
Review Code:

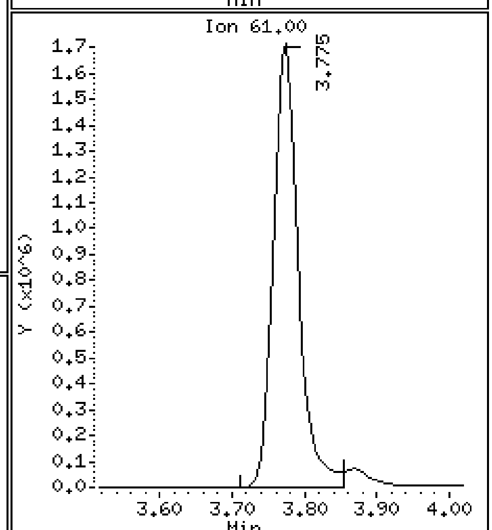


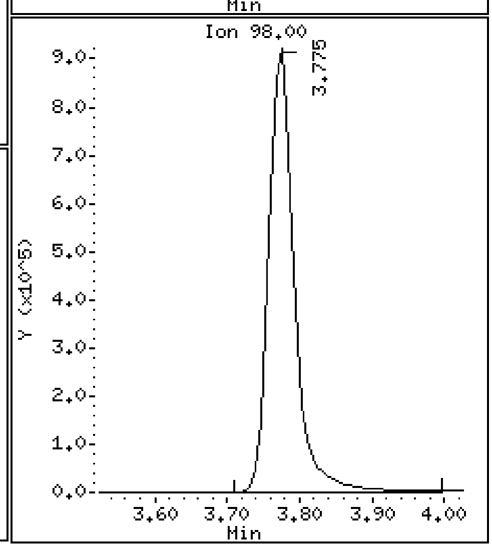












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

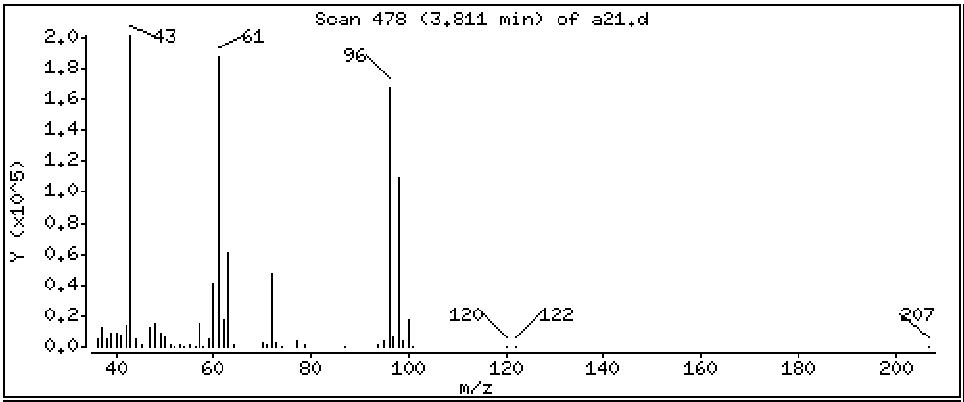
Column phase: DB-624

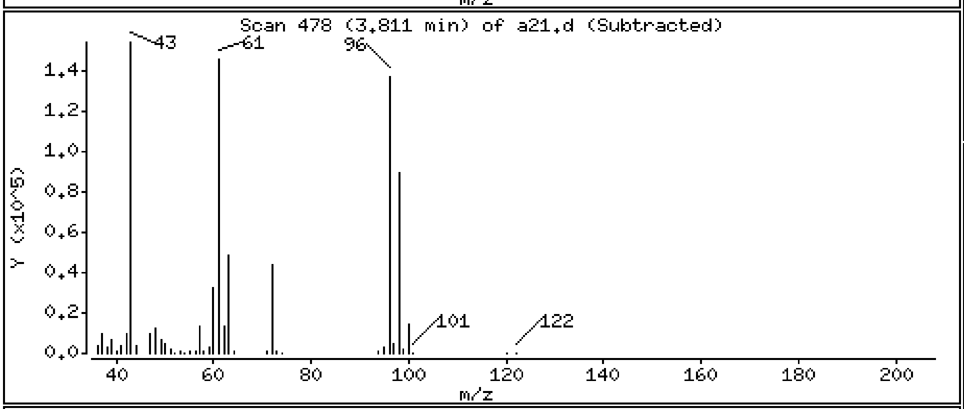
Column diameter: 0.18

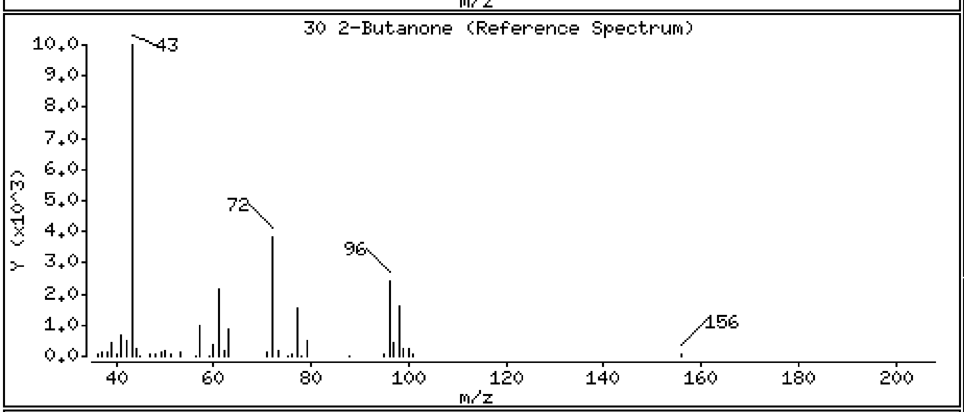
30 2-Butanone

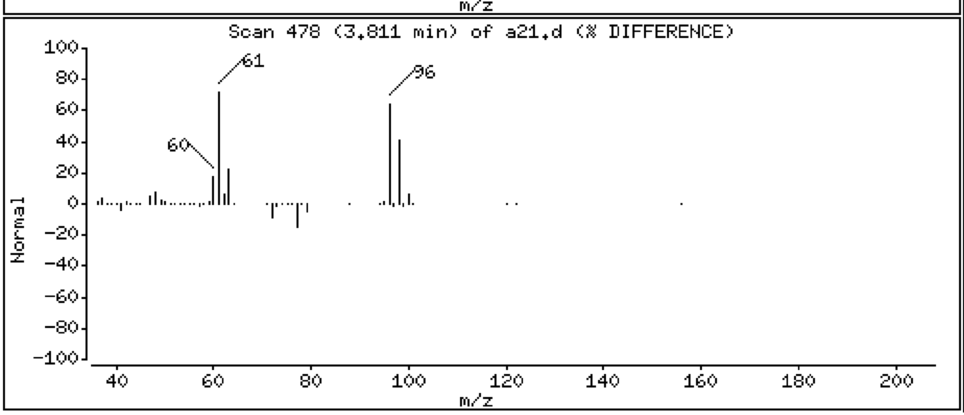
Concentration: 212 ppb

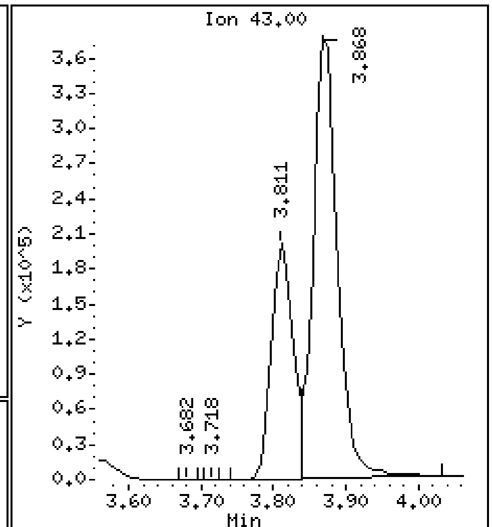
Review Code:

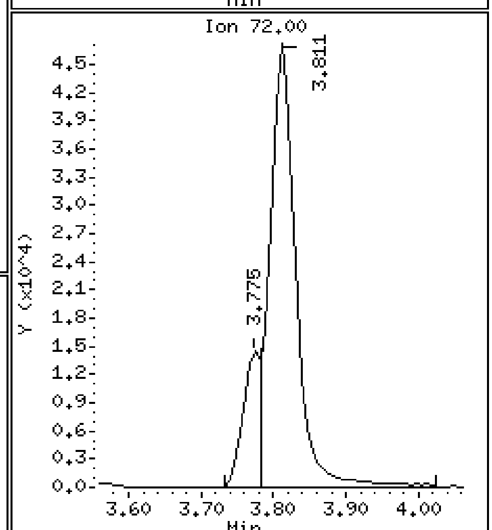


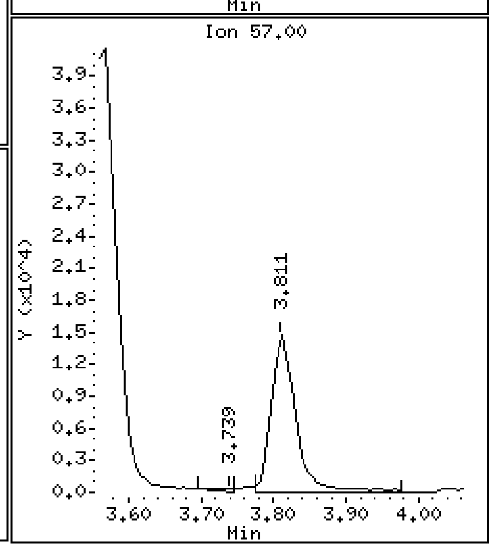












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

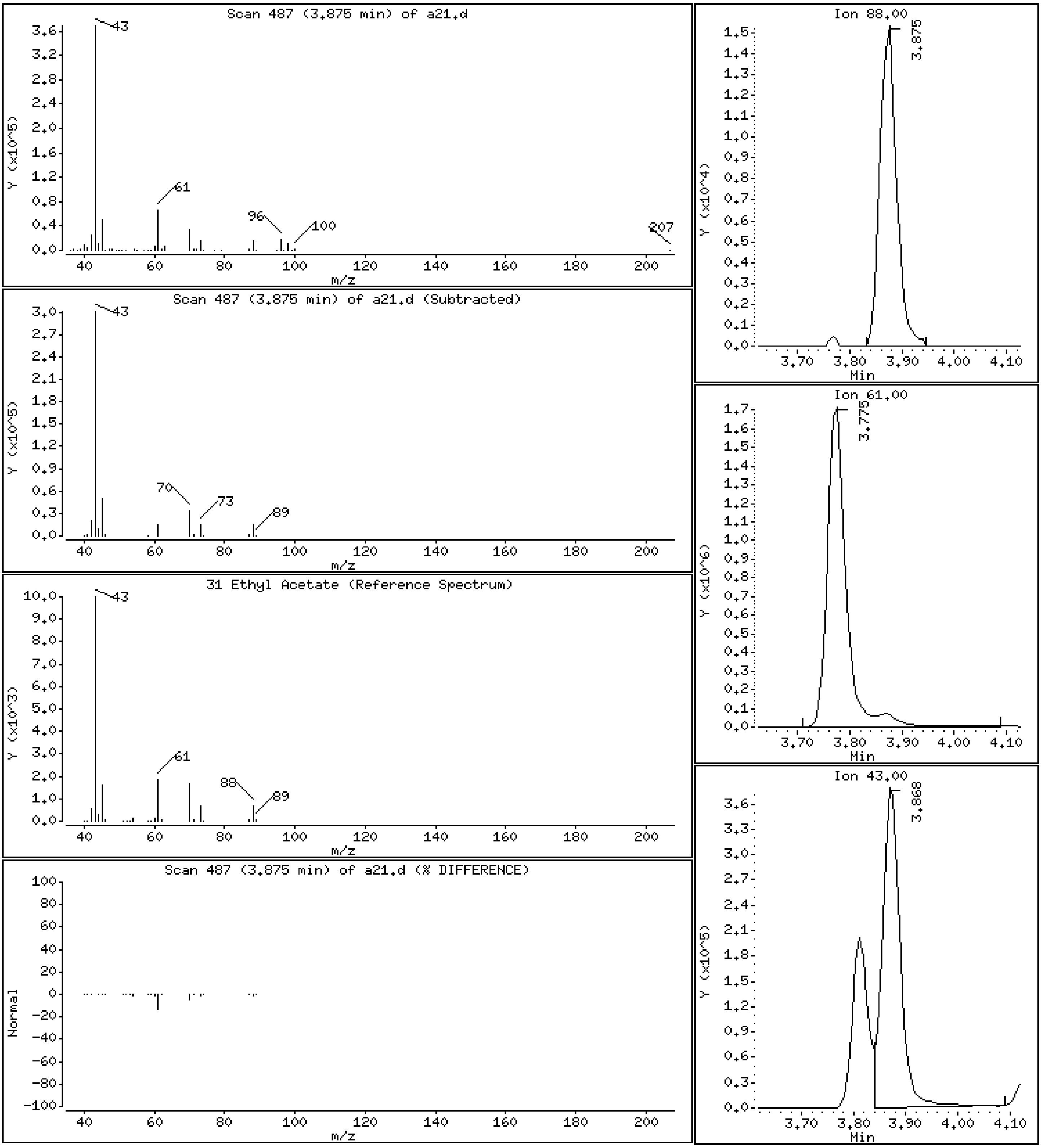
Column phase: DB-624

Column diameter: 0.18

31 Ethyl Acetate

Concentration: 234 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

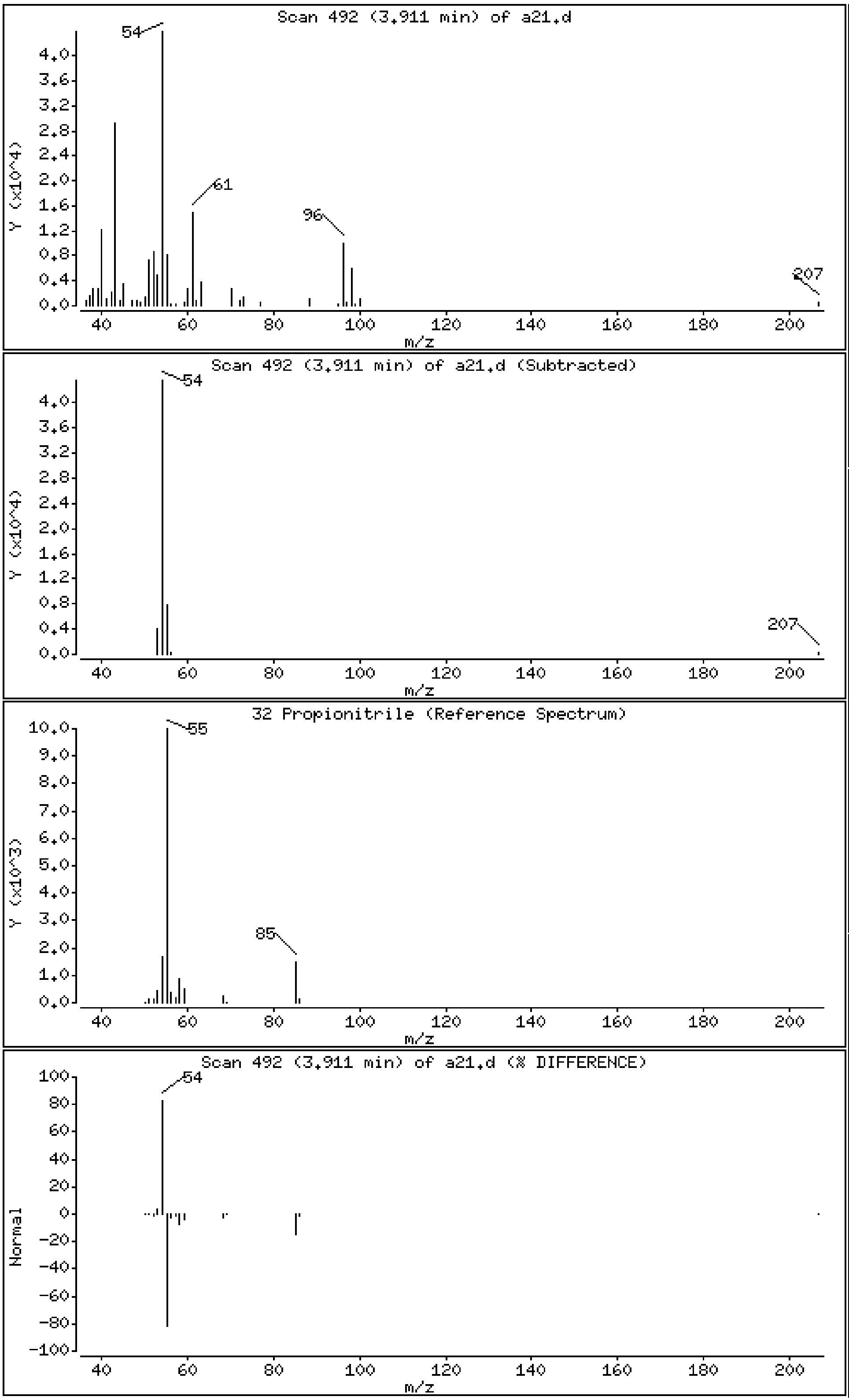
Column phase: DB-624

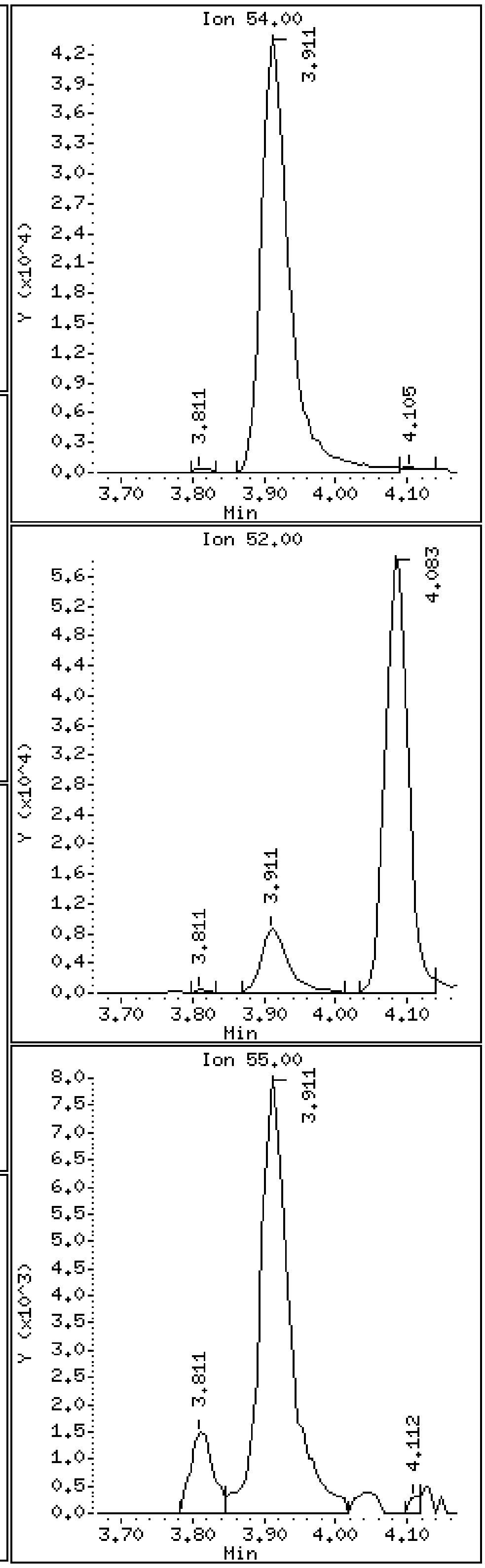
Column diameter: 0.18

32 Propionitrile

Concentration: 208 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256;5

Purge Volume: 5.0

Operator: tkg

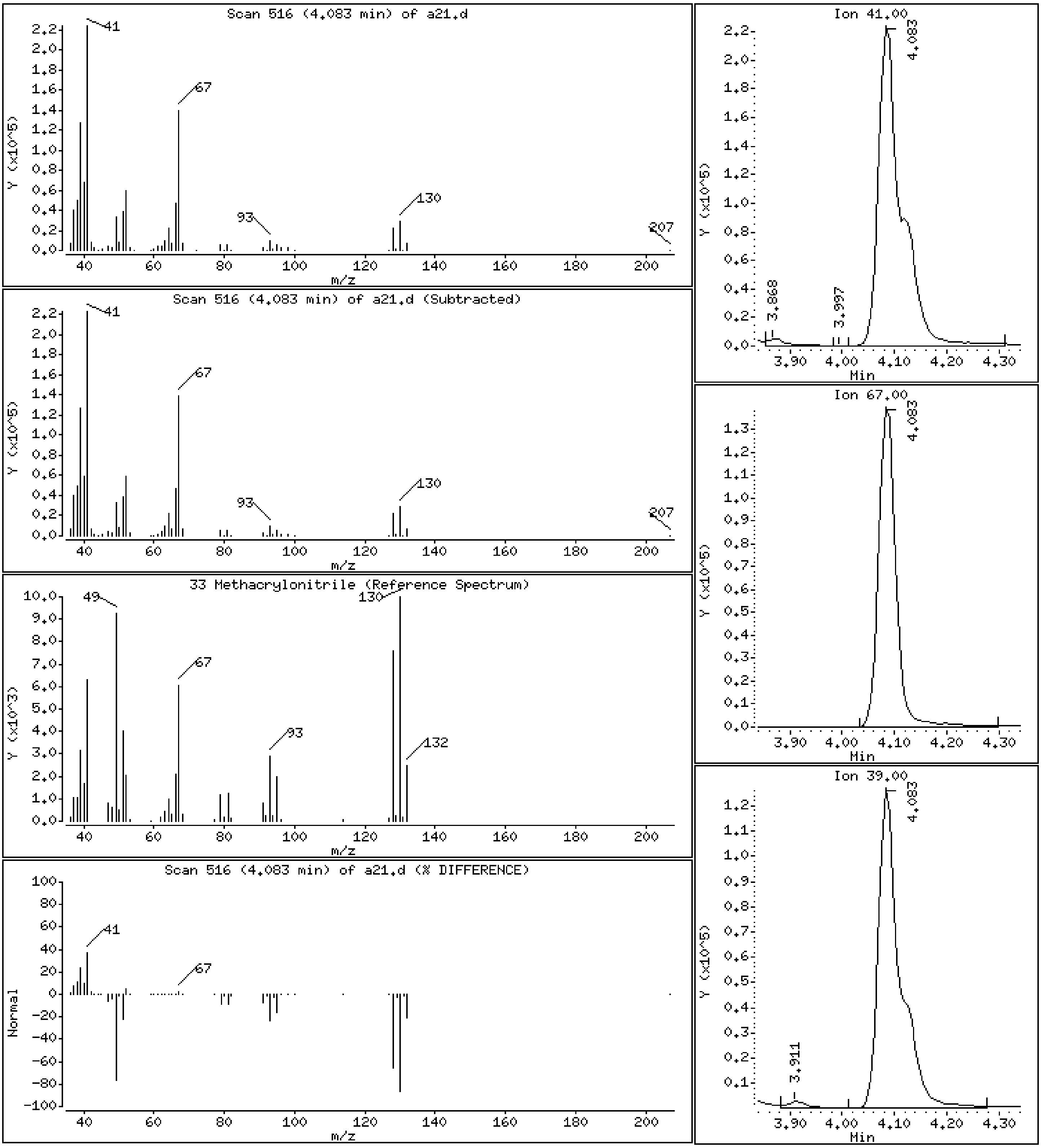
Column phase: DB-624

Column diameter: 0.18

33 Methacrylonitrile

Concentration: 208 ppb

Review Code:



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Date : 23-JAN-2023 19:36

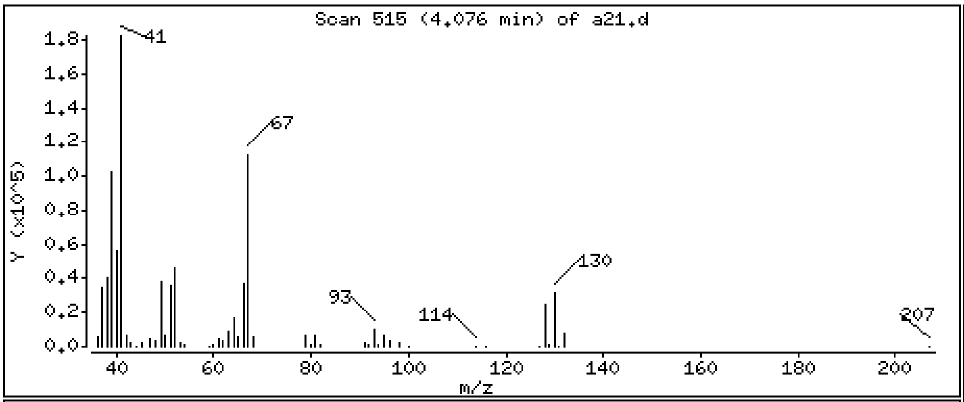
Client ID: LA2268MS Instrument: 50mvda.i

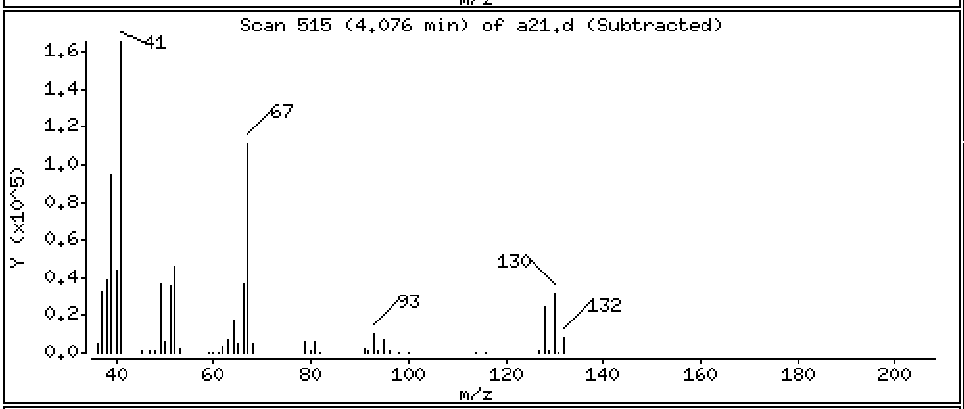
Sample Info: 3287469,336256:5

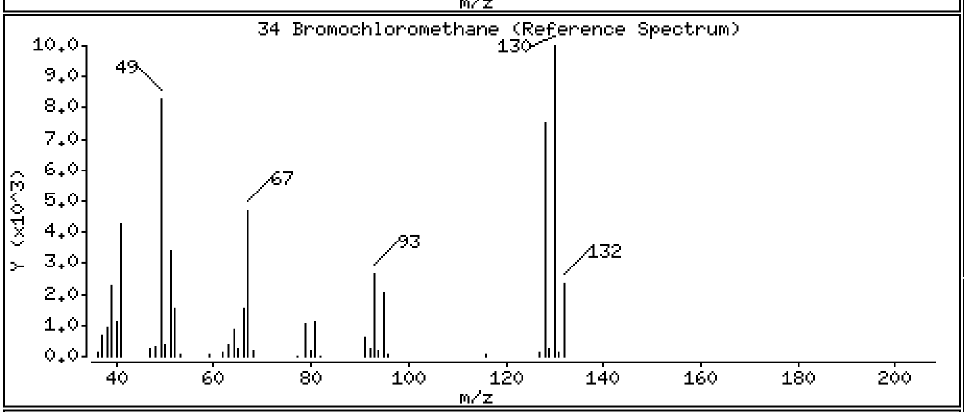
Purge Volume: 5.0 Operator: tkg

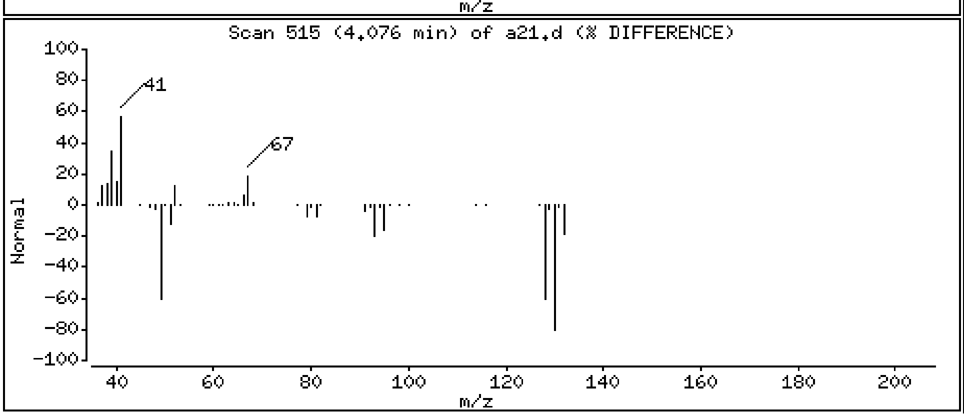
Column phase: DB-624 Column diameter: 0.18

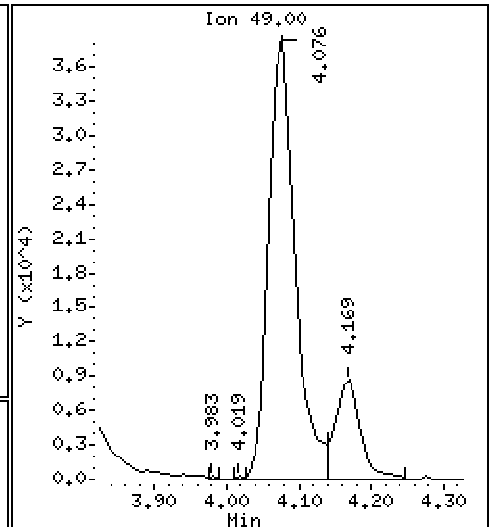
34 Bromochloromethane Concentration: 46.9 ppb Review Code:

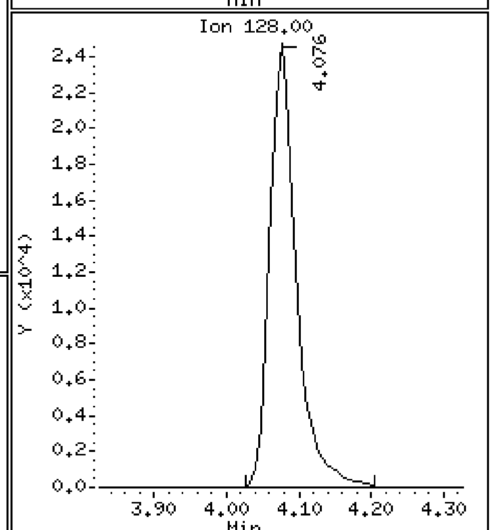


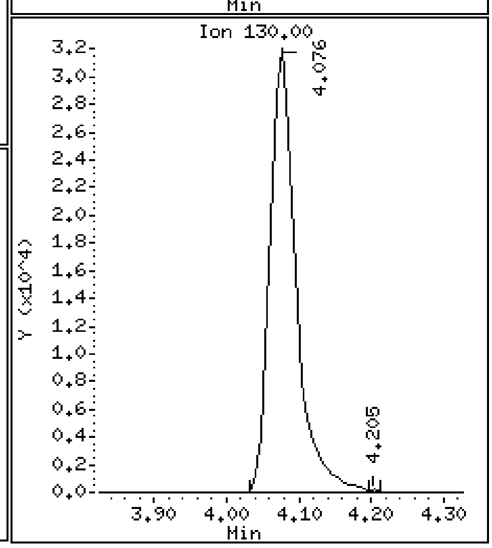












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

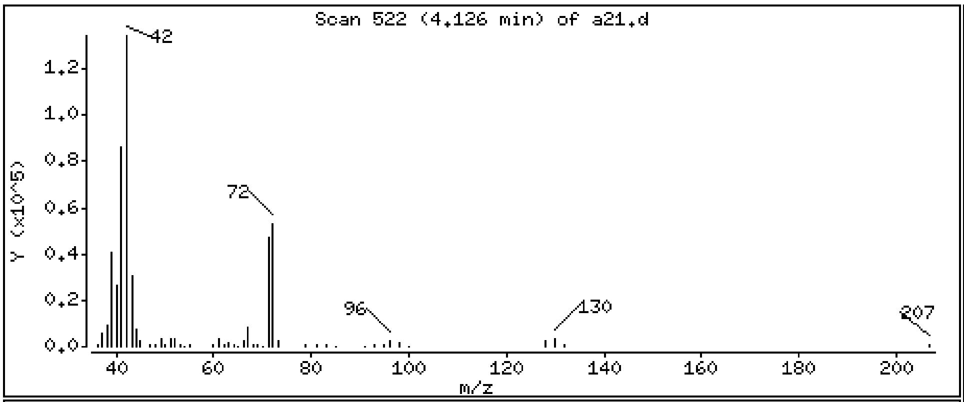
Column phase: DB-624

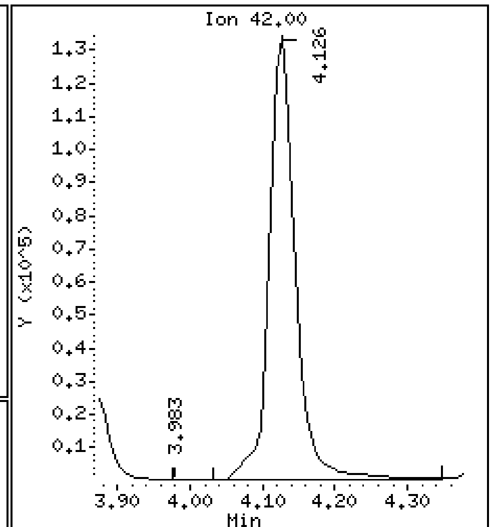
Column diameter: 0.18

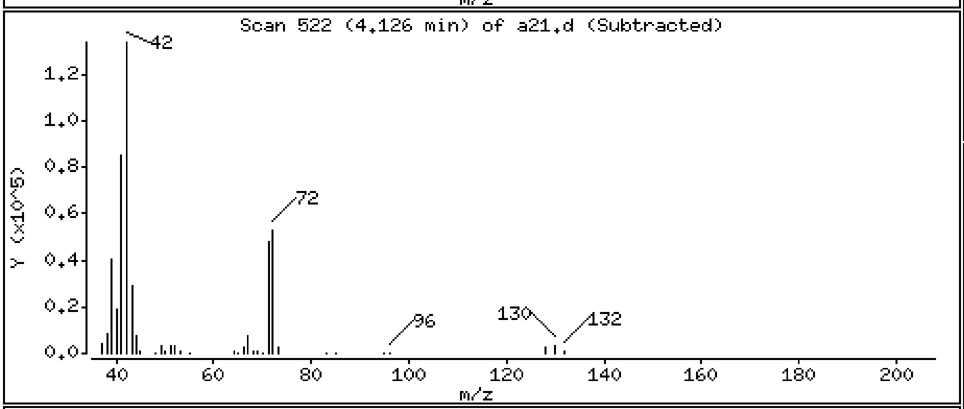
35 Tetrahydrofuran

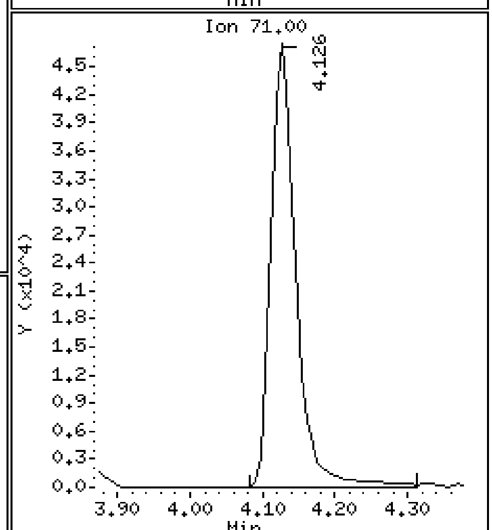
Concentration: 203 ppb

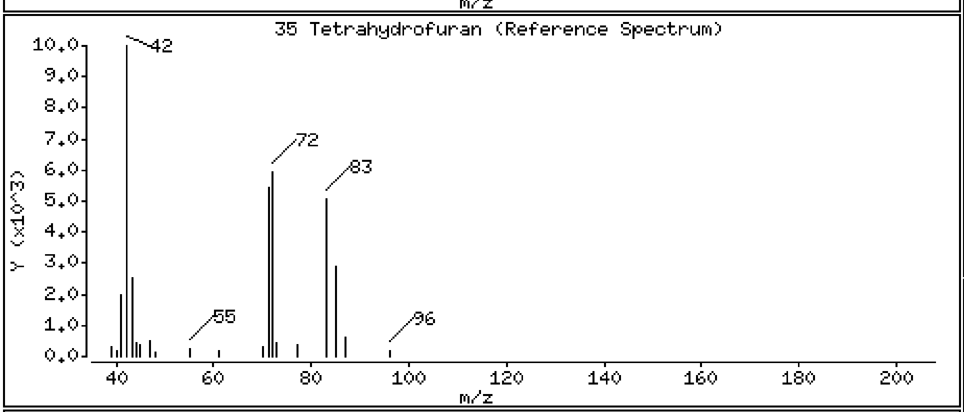
Review Code:

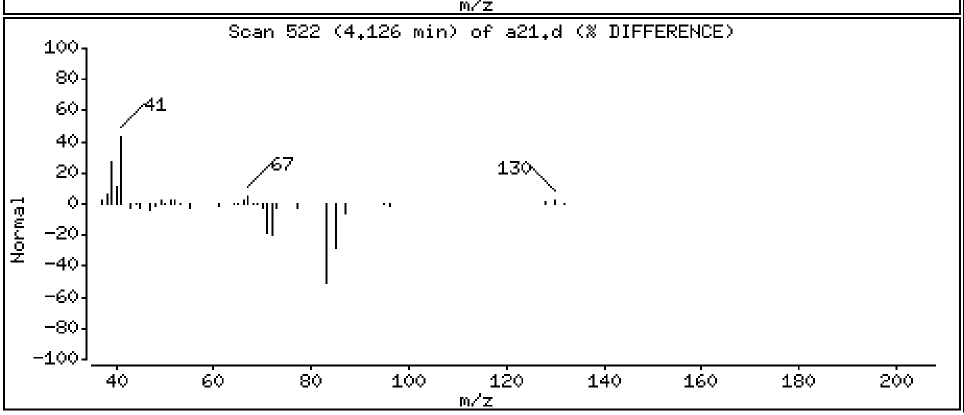


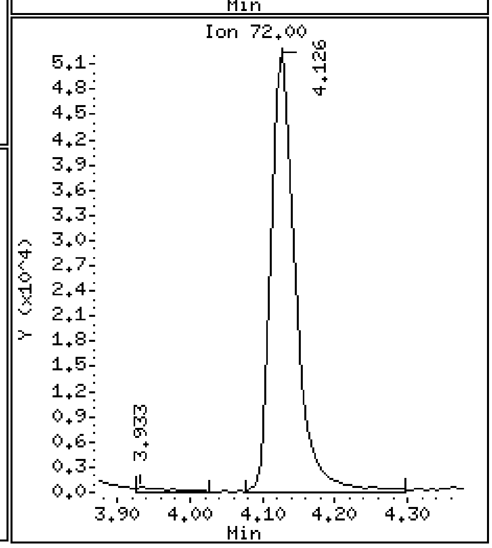












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

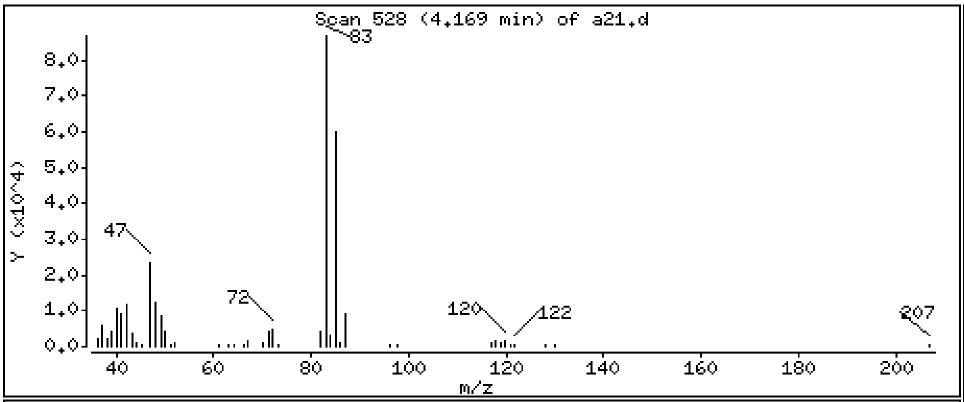
Column phase: DB-624

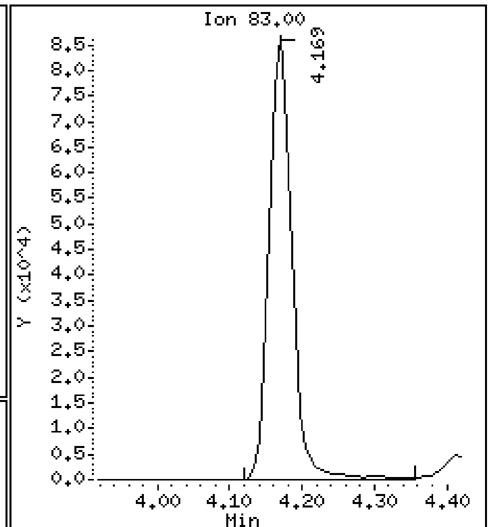
Column diameter: 0.18

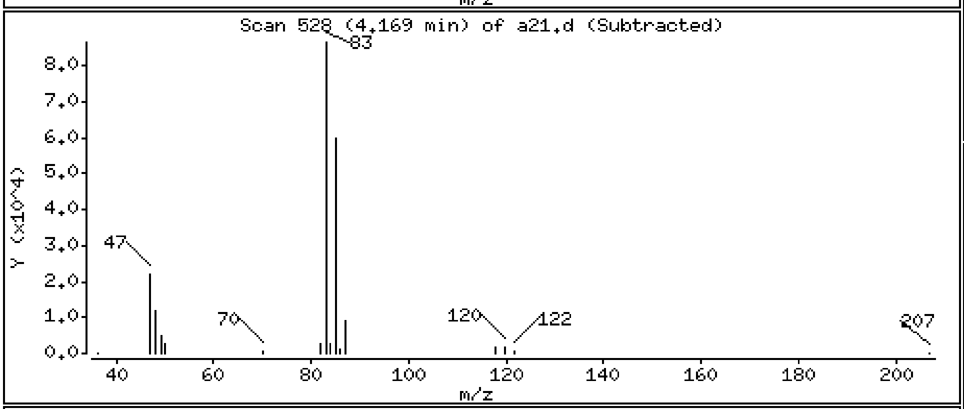
36 Chloroform

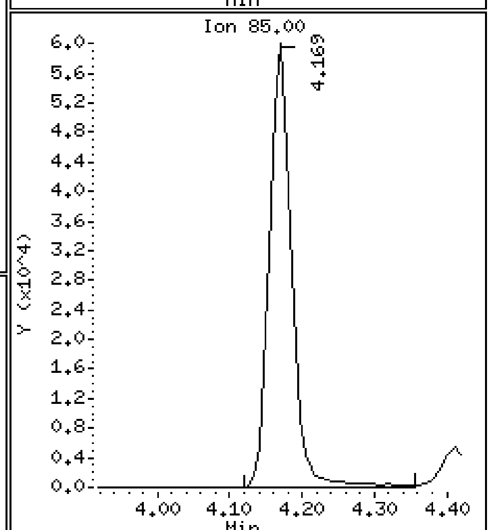
Concentration: 46.9 ppb

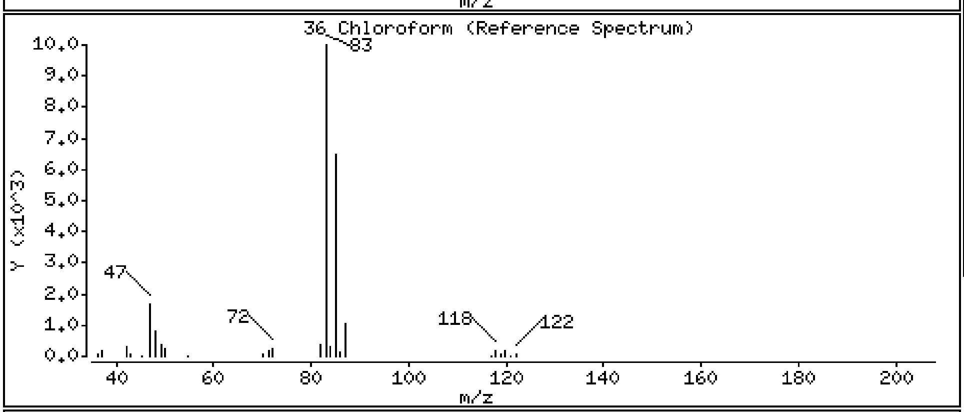
Review Code:

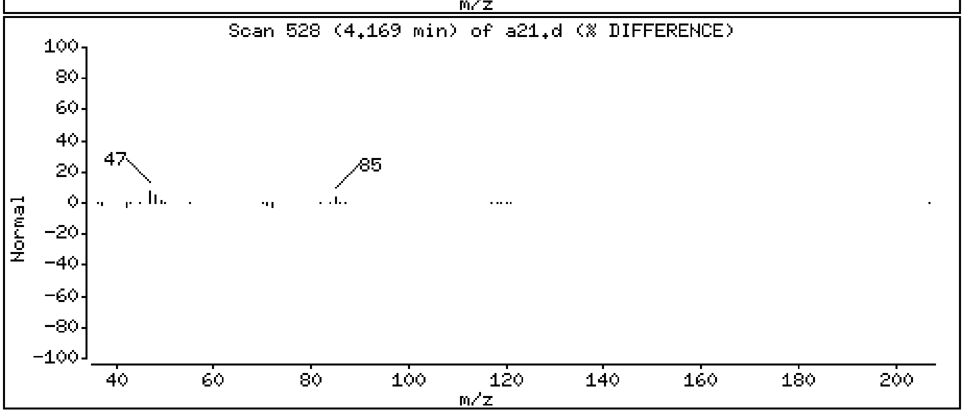












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

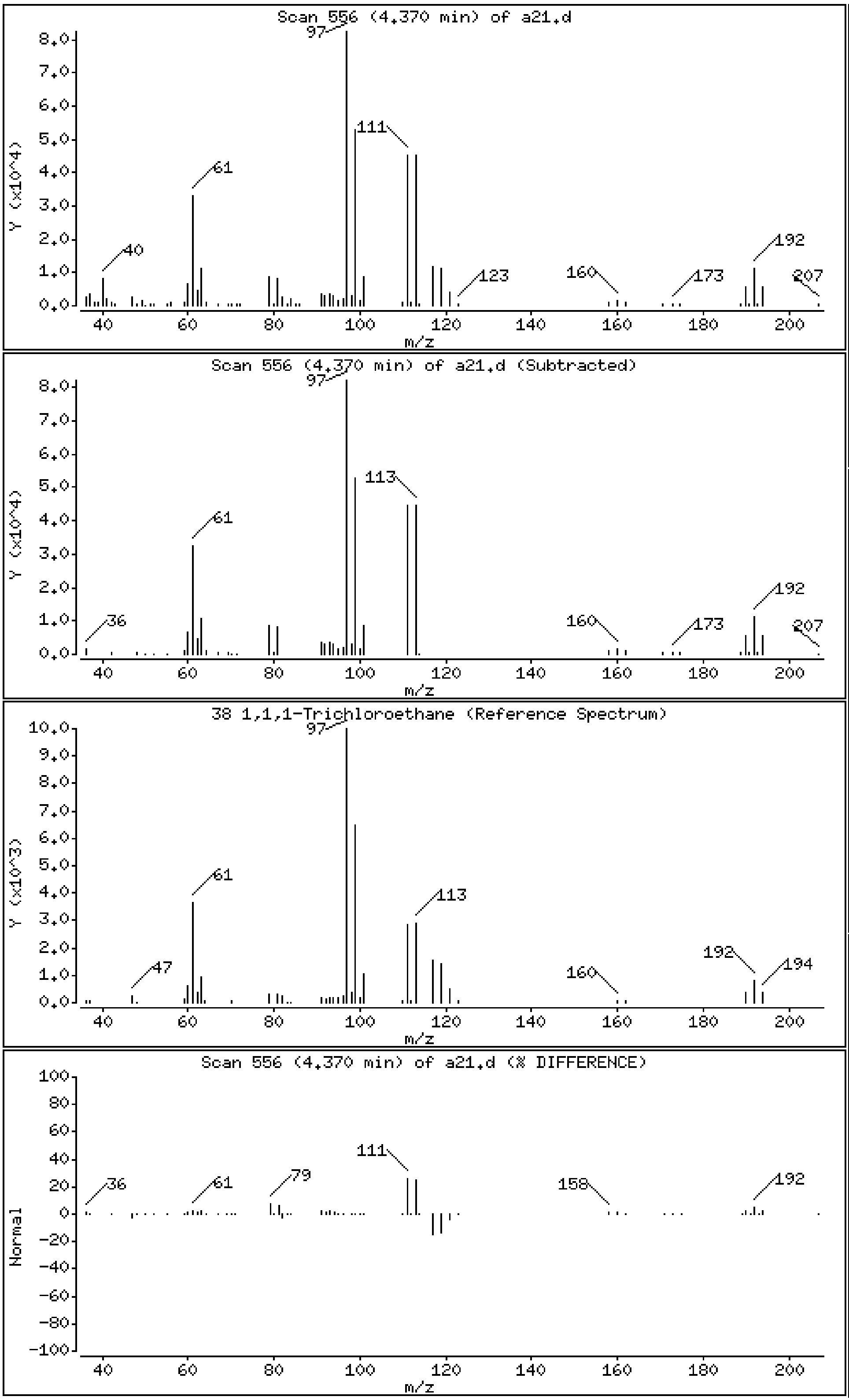
Column phase: DB-624

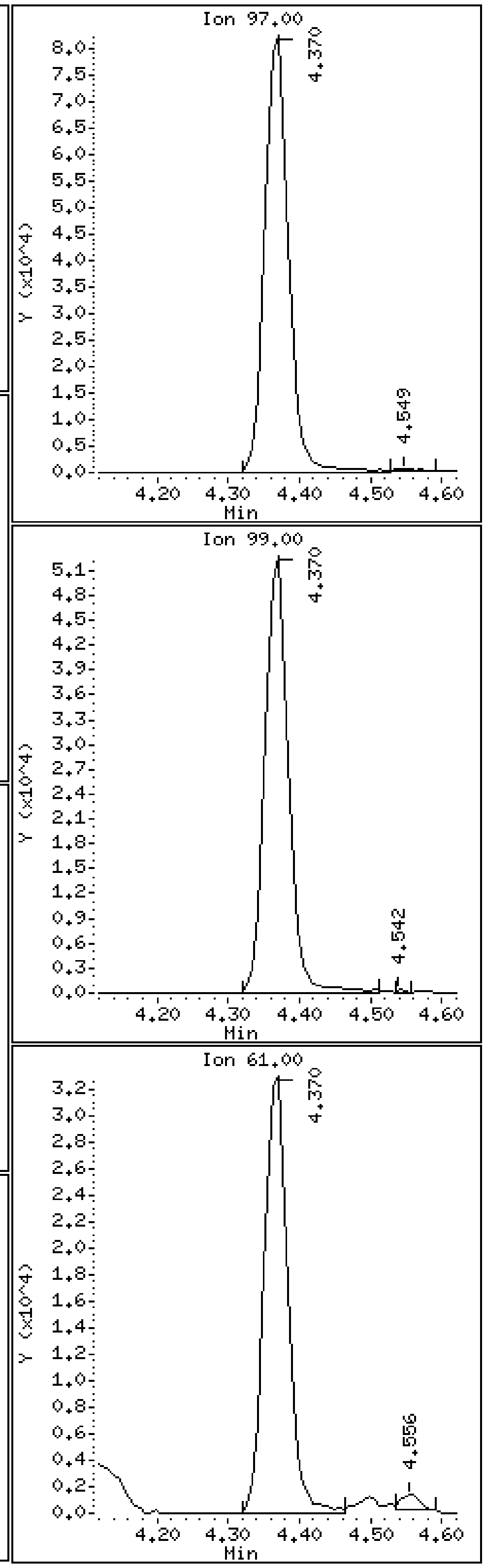
Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 52.4 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mvda.i

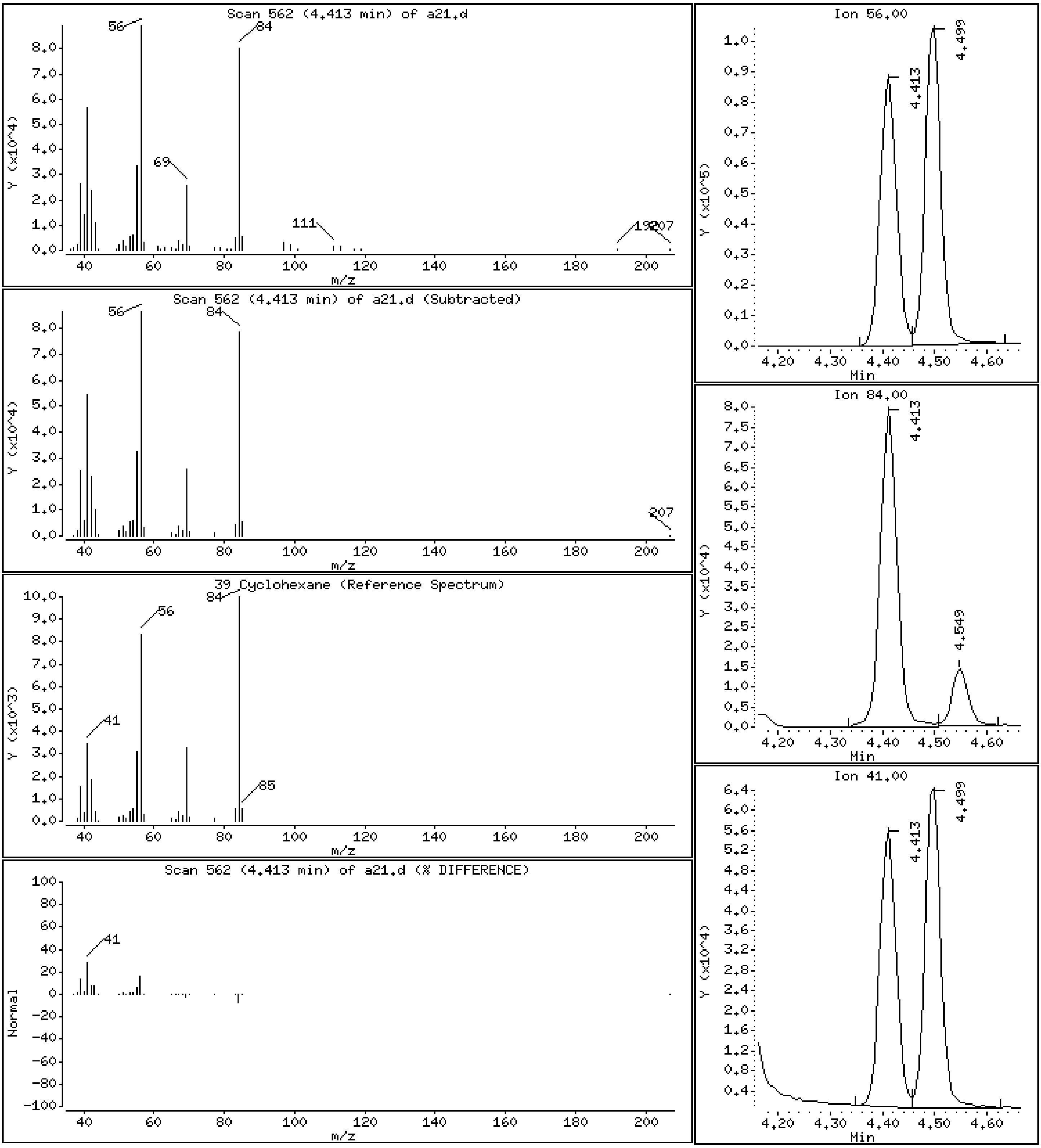
Operator: tkg

Column diameter: 0.18

39 Cyclohexane

Concentration: 44.4 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

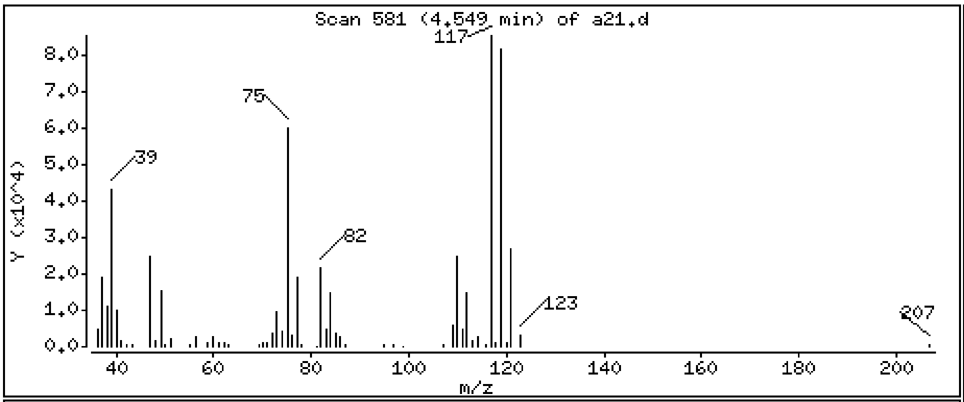
Column phase: DB-624

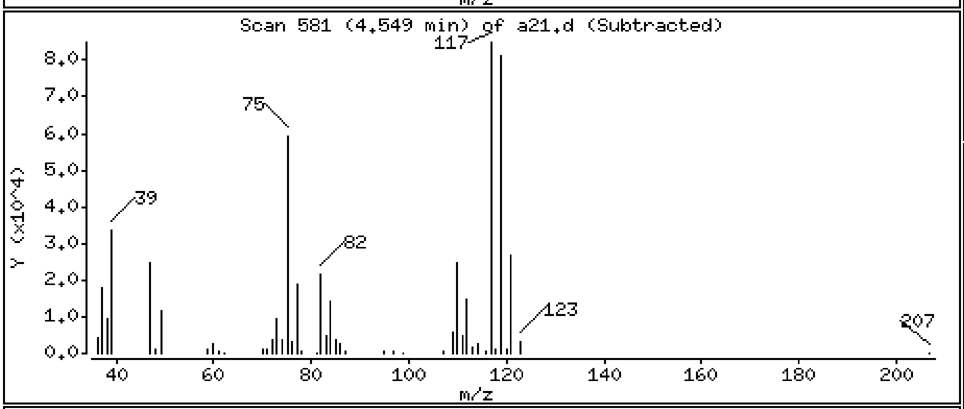
Column diameter: 0.18

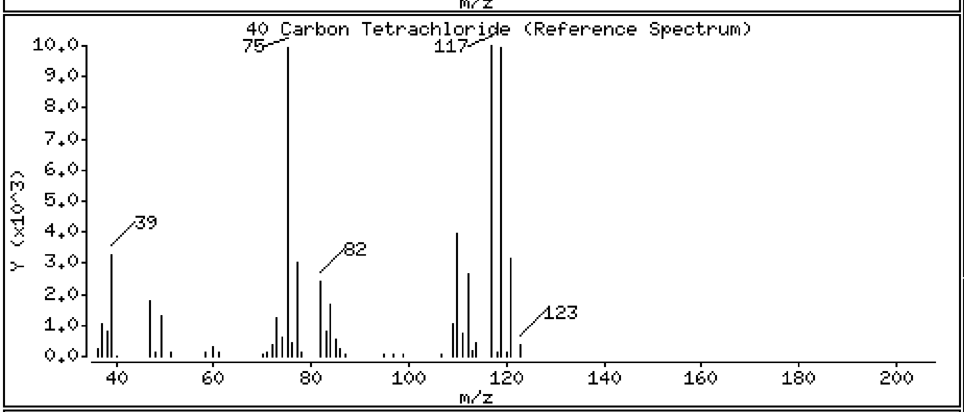
40 Carbon Tetrachloride

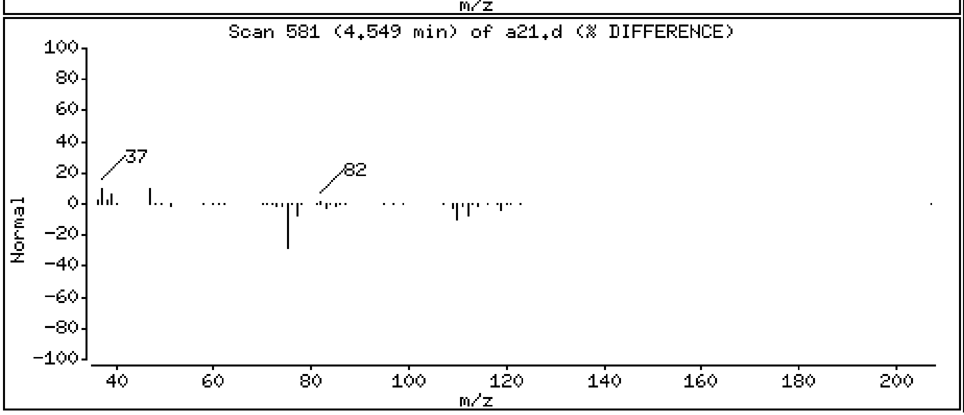
Concentration: 56.6 ppb

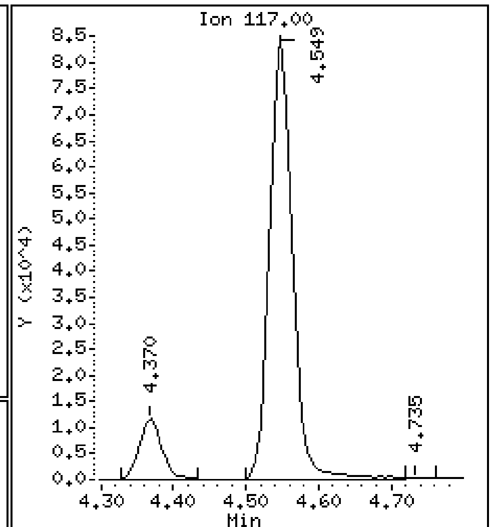
Review Code:

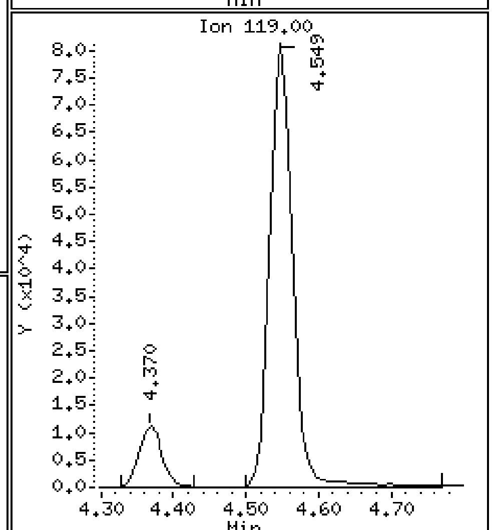


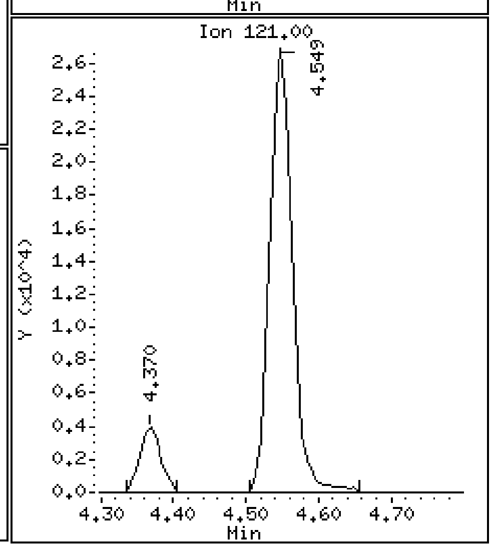












Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

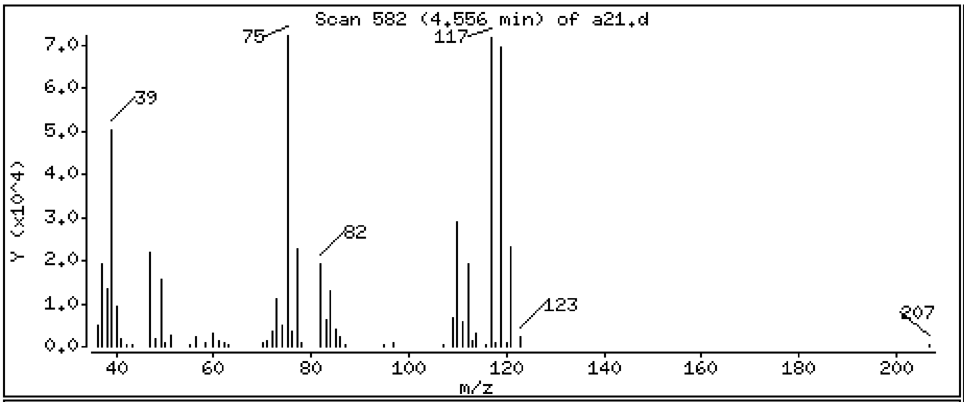
Column phase: DB-624

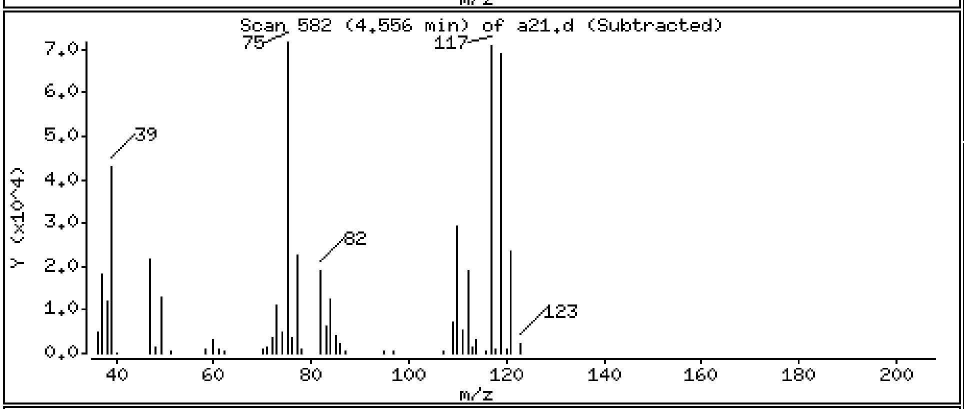
Column diameter: 0.18

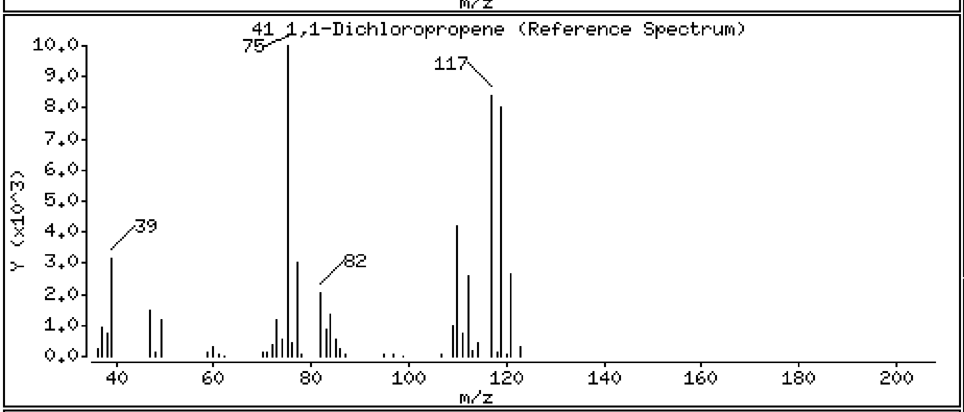
41 1,1-Dichloropropene

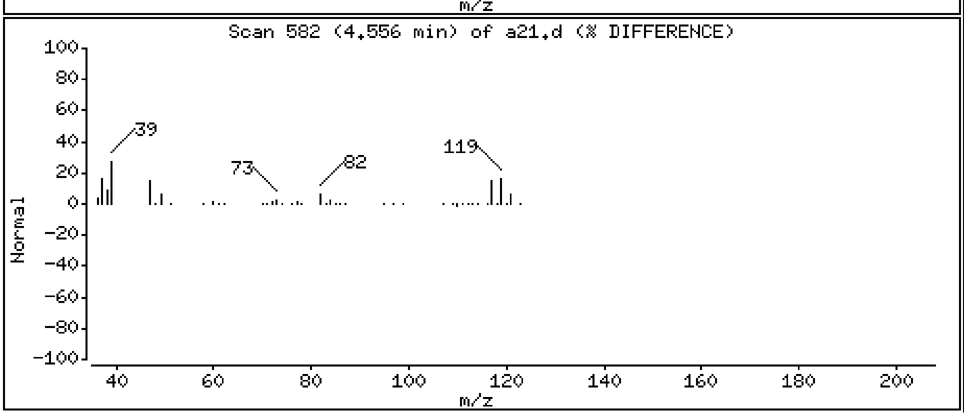
Concentration: 50.5 ppb

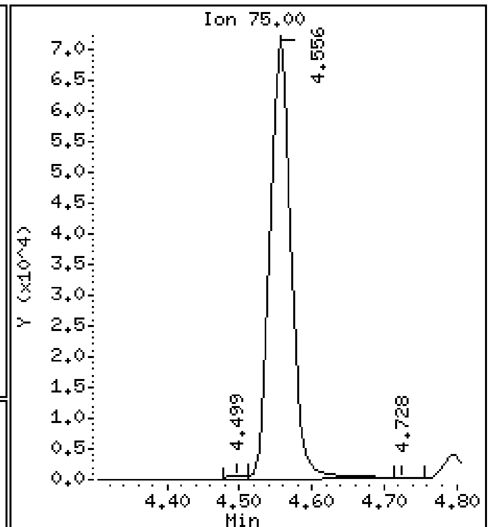
Review Code:

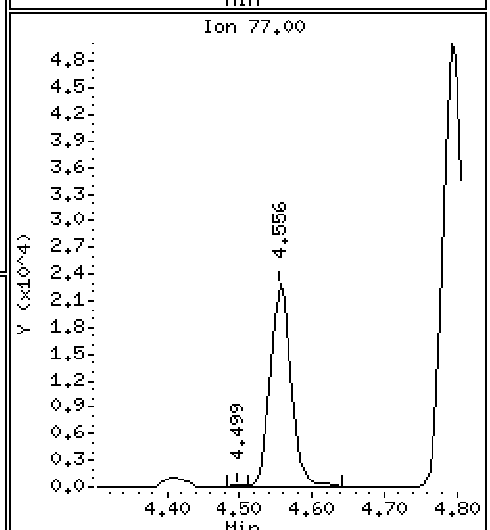


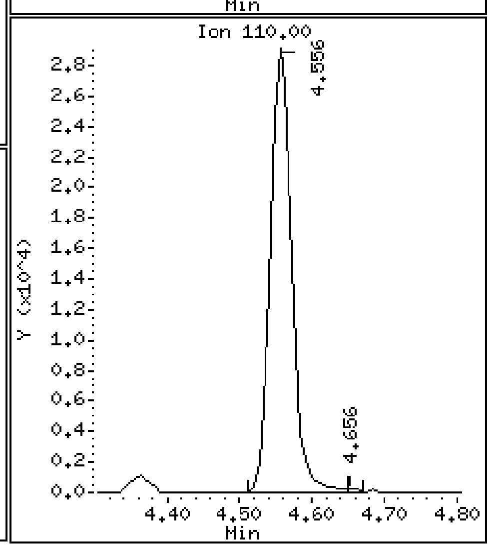












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

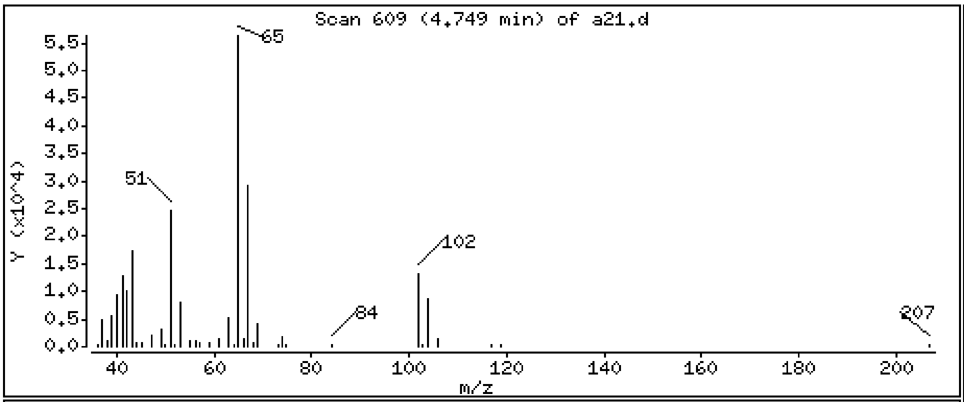
Column phase: DB-624

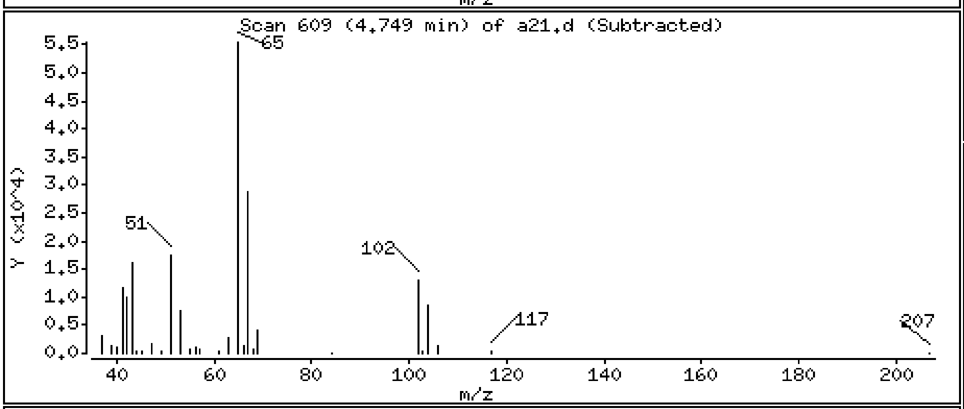
Column diameter: 0.18

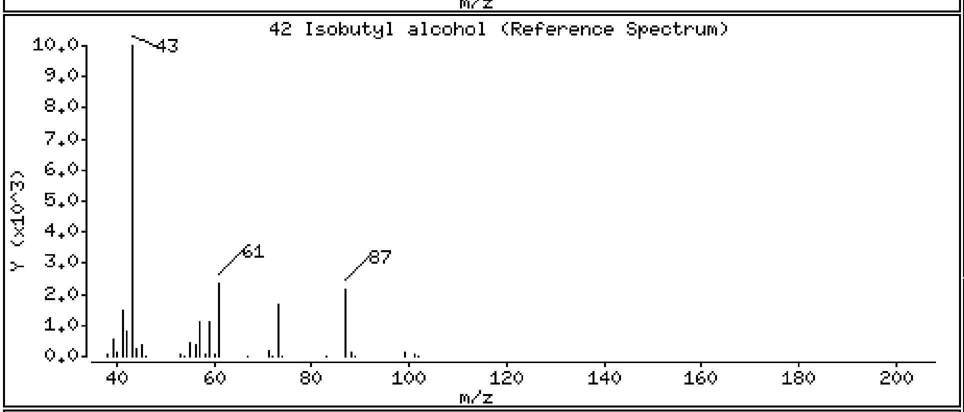
42 Isobutyl alcohol

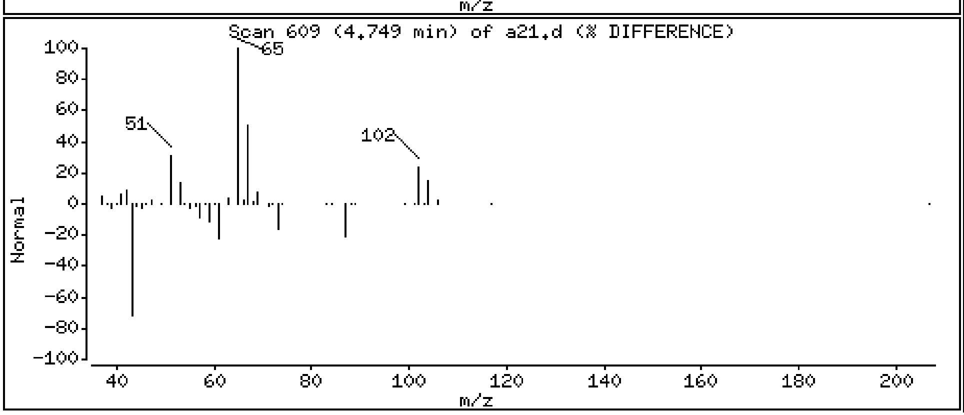
Concentration: 211 ppb

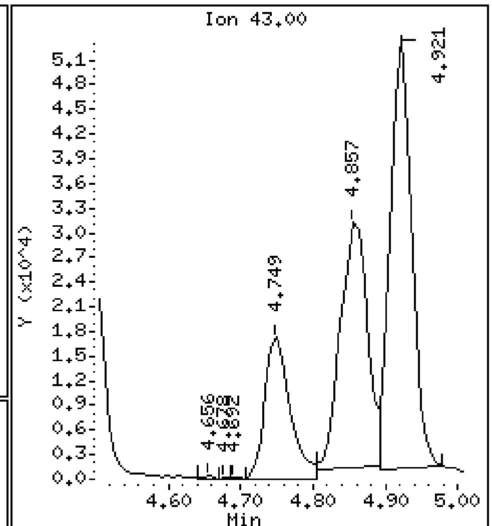
Review Code:

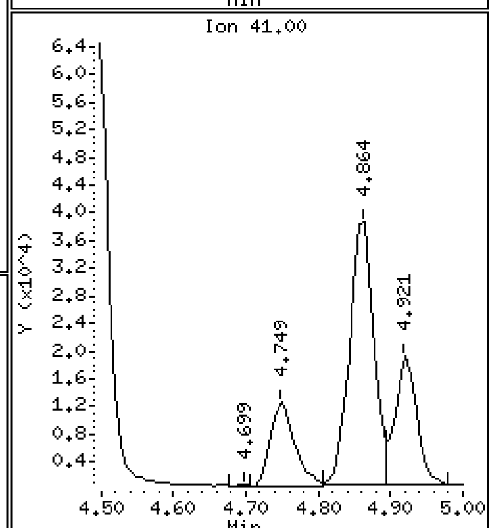


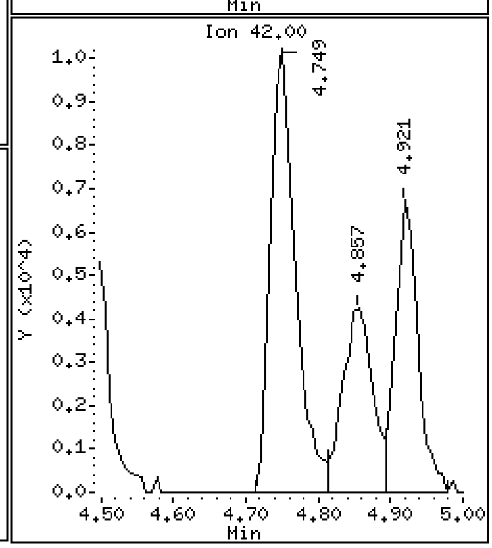












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

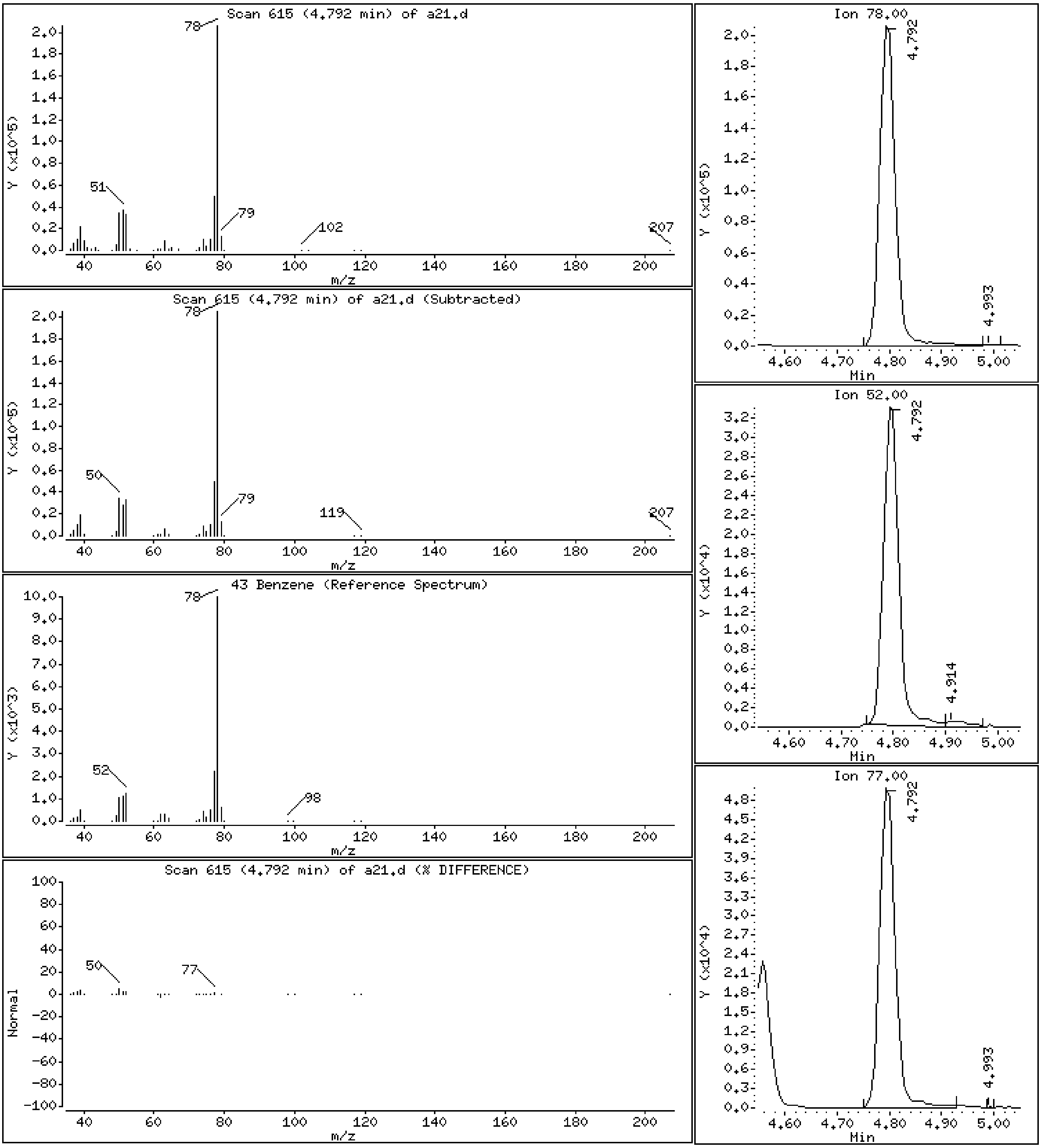
Column phase: DB-624

Column diameter: 0.18

43 Benzene

Concentration: 46.4 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

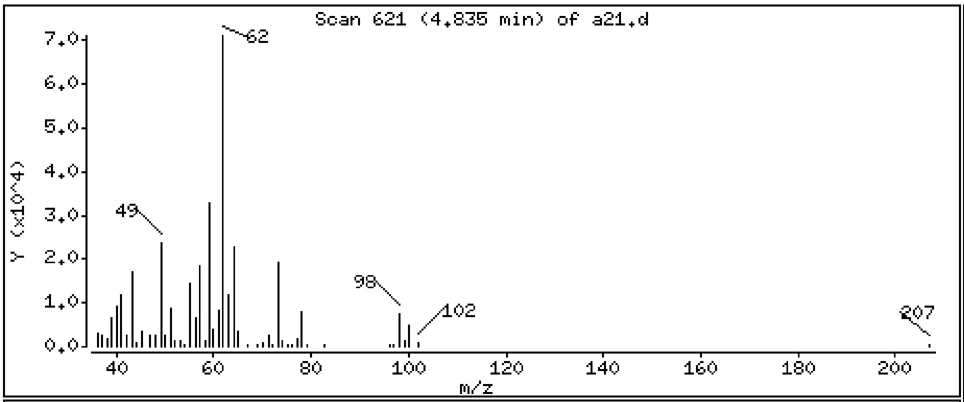
Column phase: DB-624

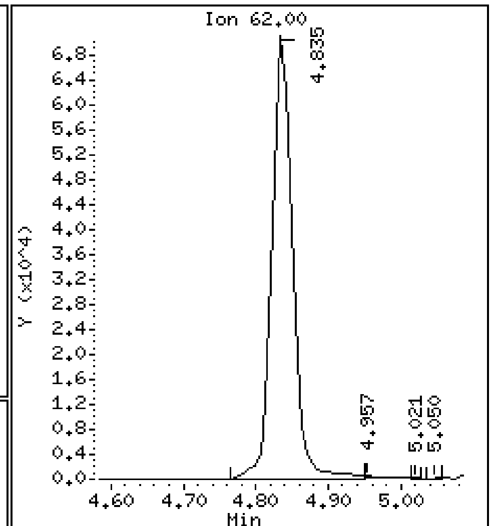
Column diameter: 0.18

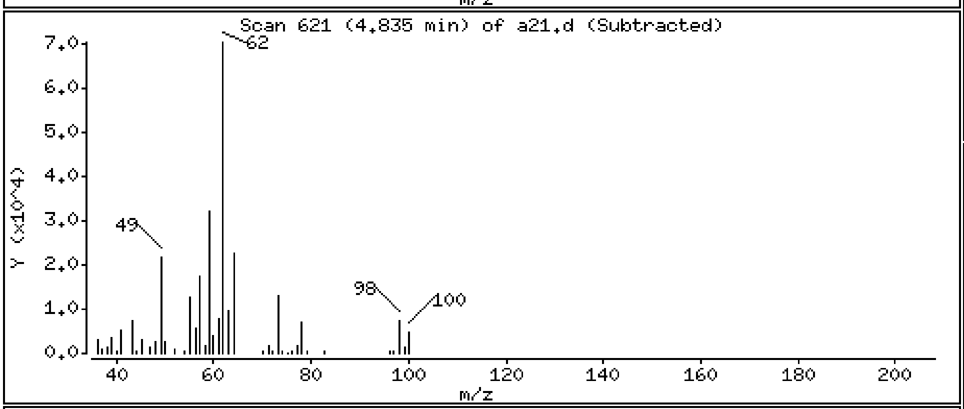
44 1,2-Dichloroethane

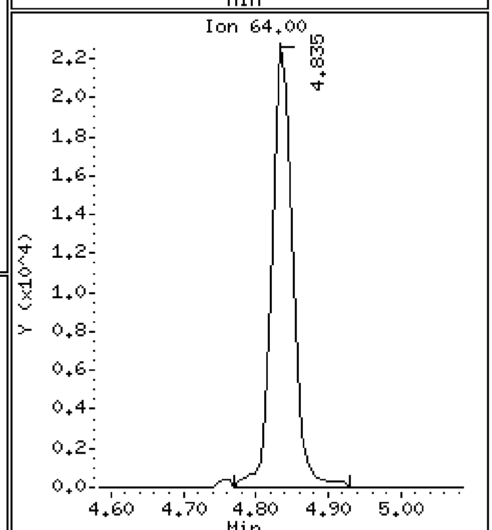
Concentration: 48.0 ppb

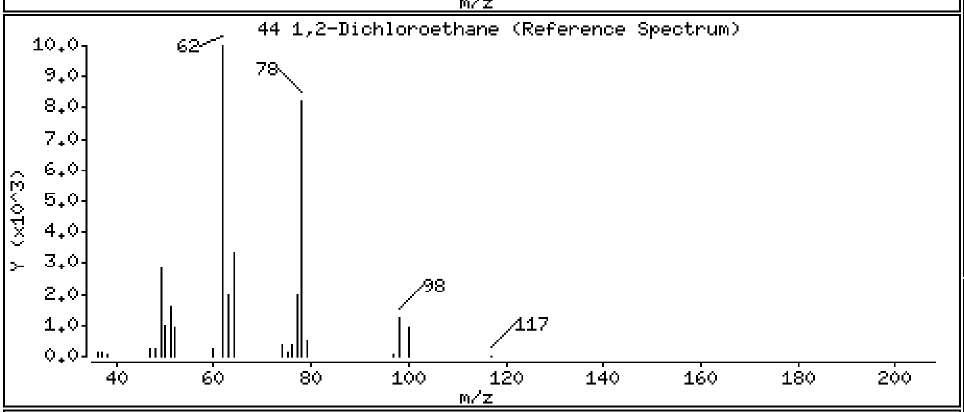
Review Code:

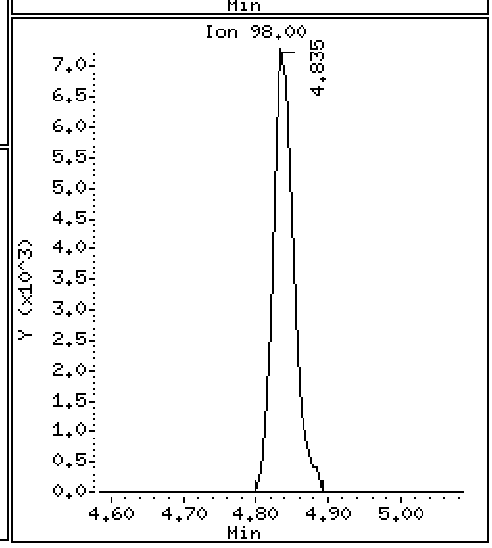


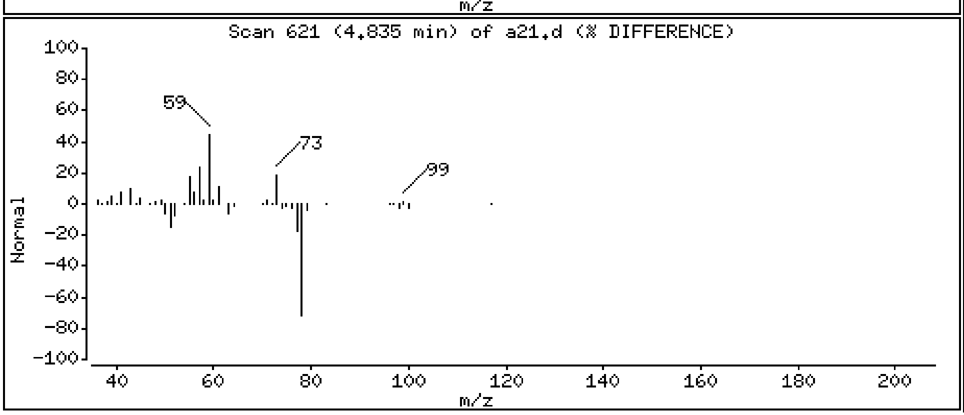












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d

Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

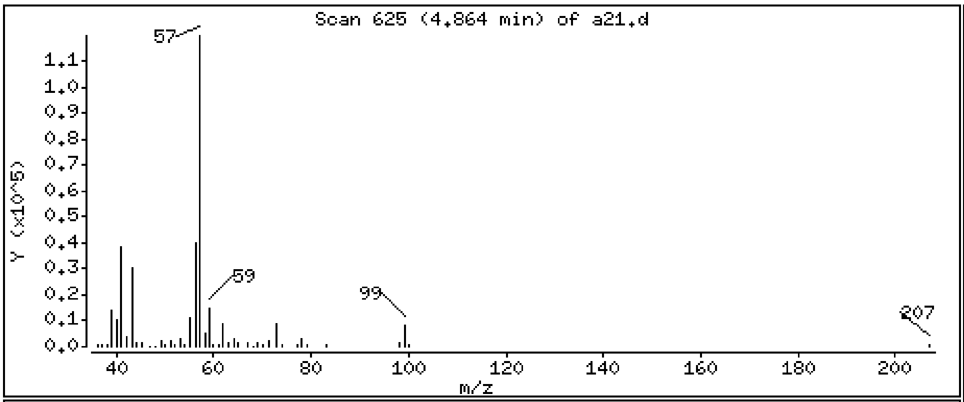
Column phase: DB-624

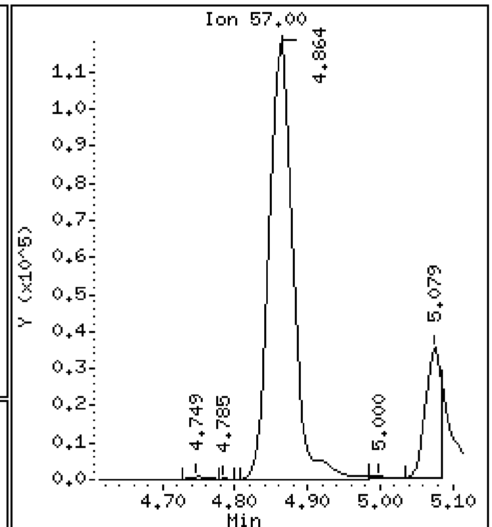
Column diameter: 0.18

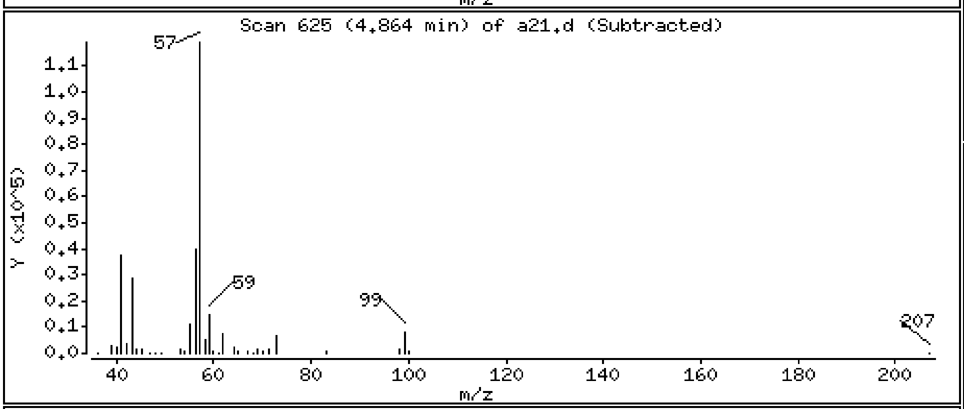
45 2,2,4-Trimethylpentane

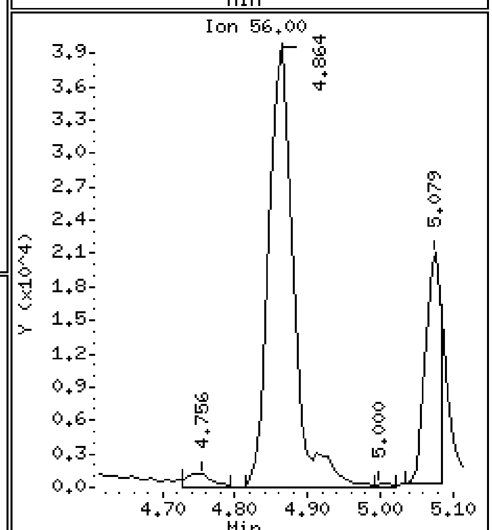
Concentration: 41.7 ppb

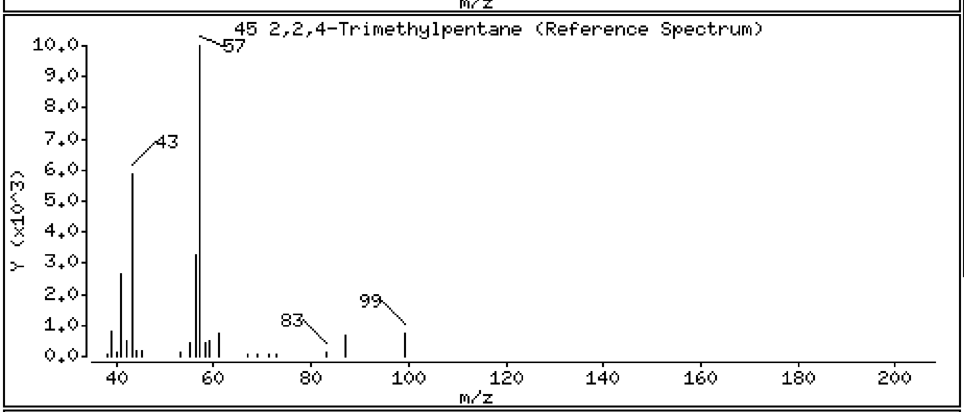
Review Code:

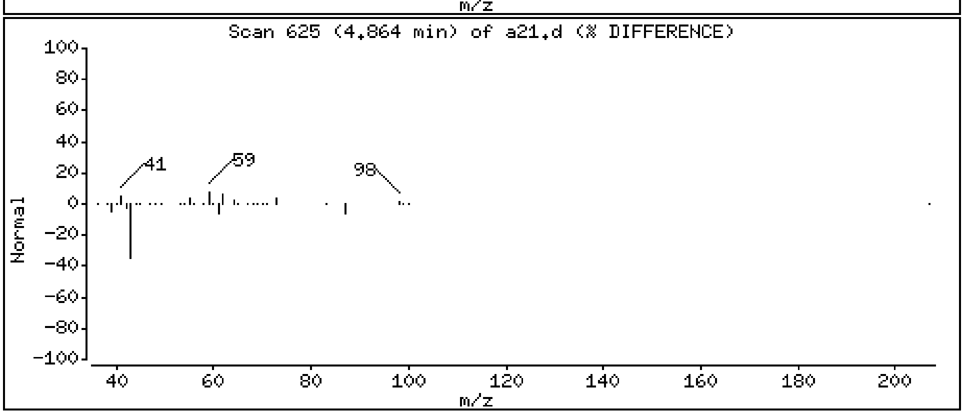












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

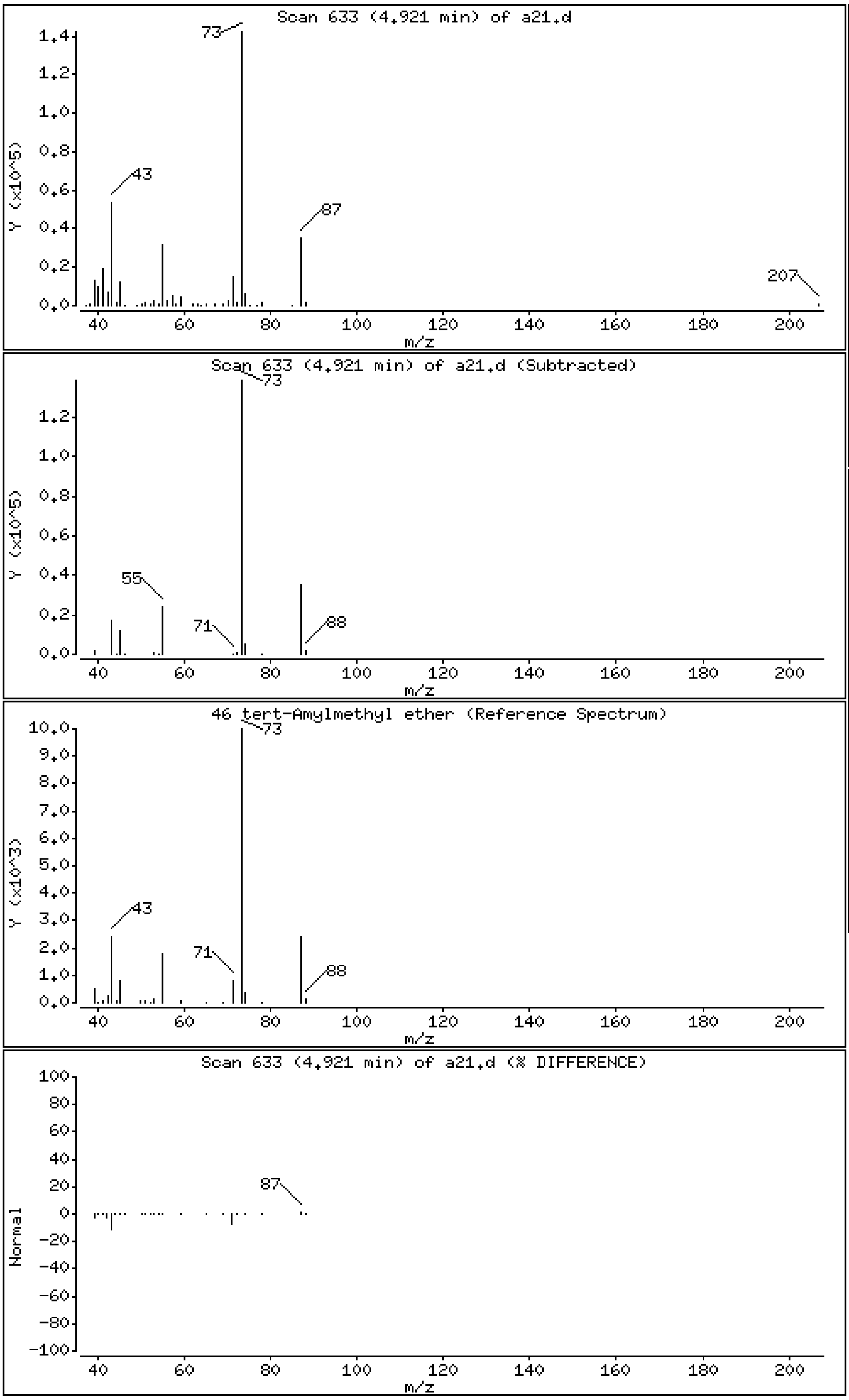
Column phase: DB-624

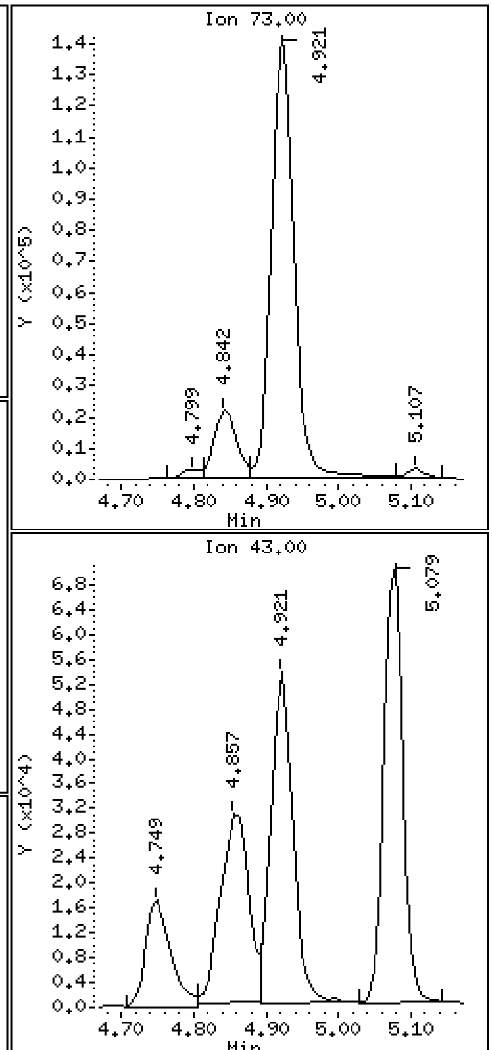
Column diameter: 0.18

46 tert-Amylmethyl ether

Concentration: 43.8 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

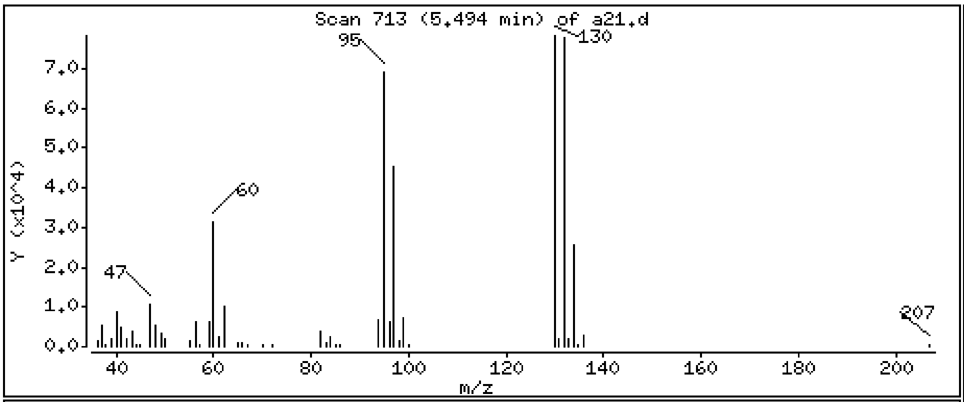
Column phase: DB-624

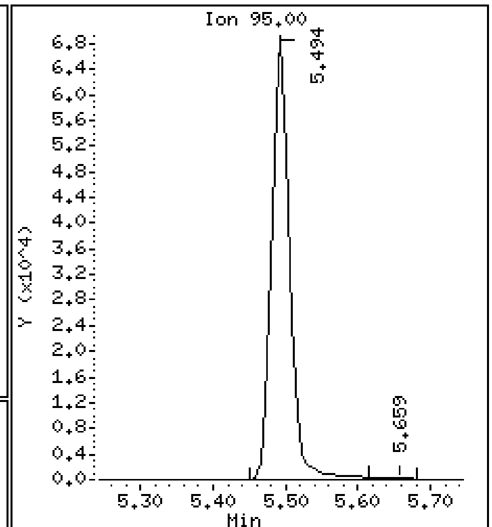
Column diameter: 0.18

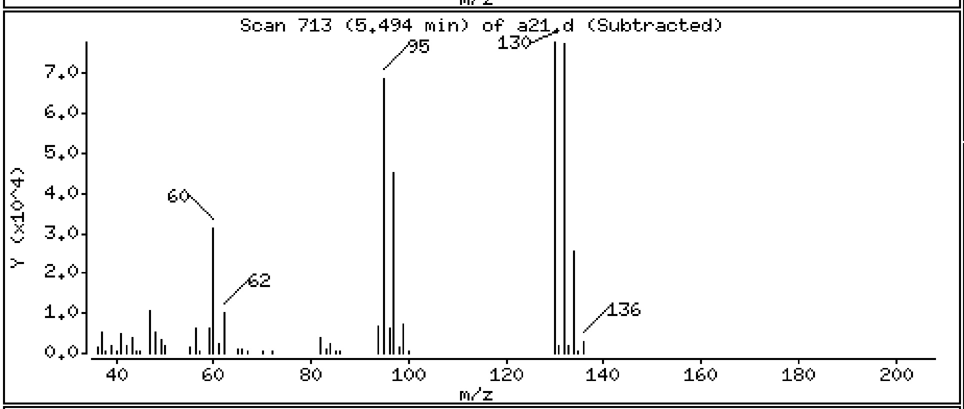
48 Trichloroethene

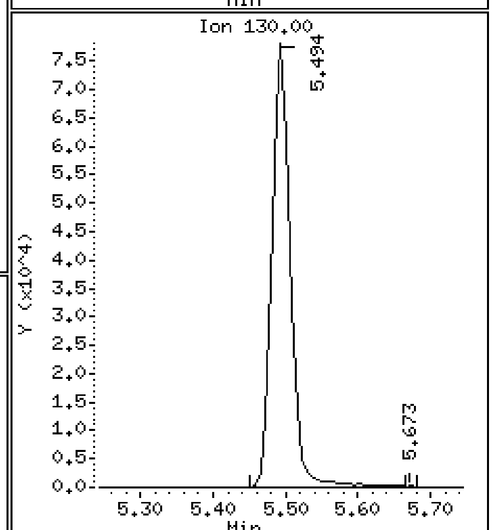
Concentration: 50.3 ppb

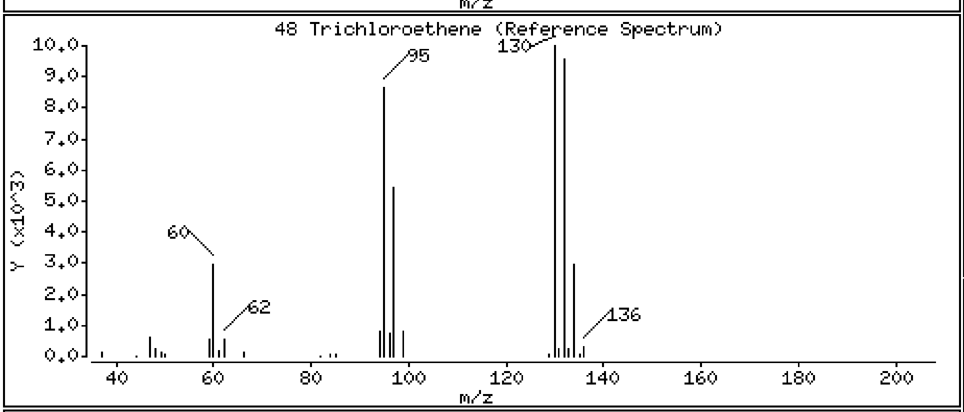
Review Code:

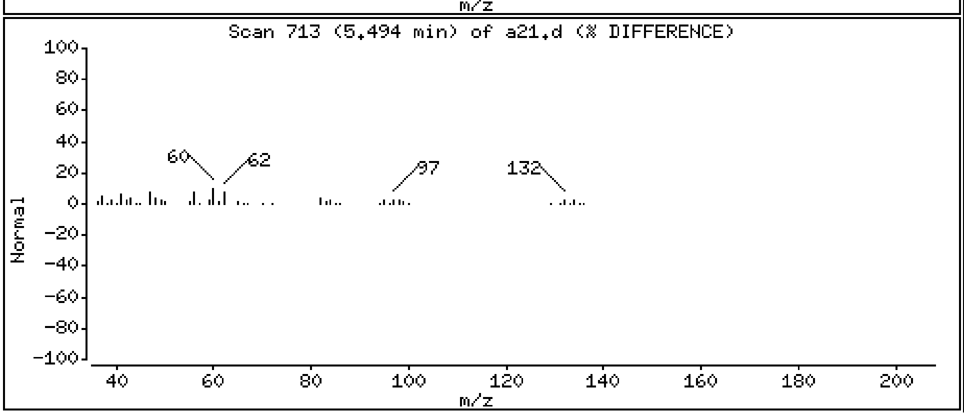


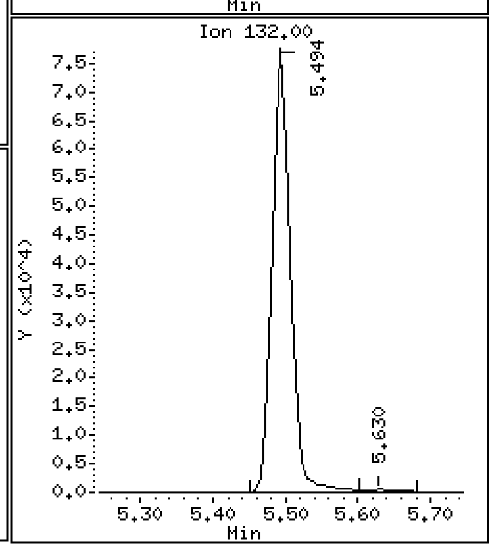












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

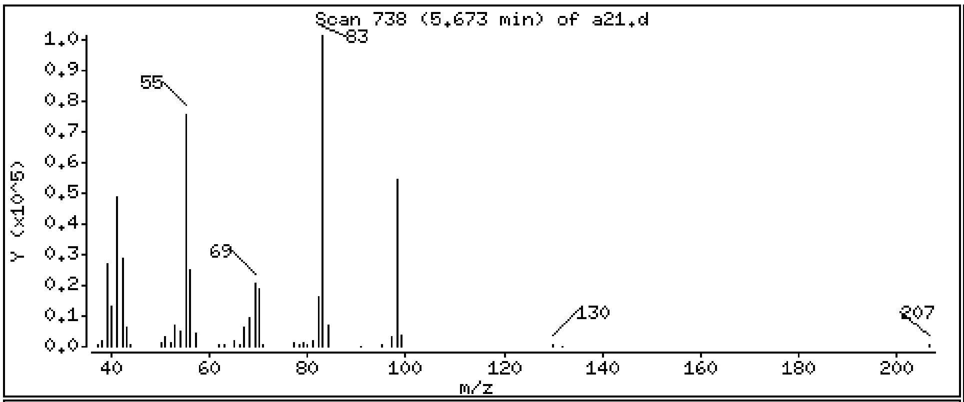
Column phase: DB-624

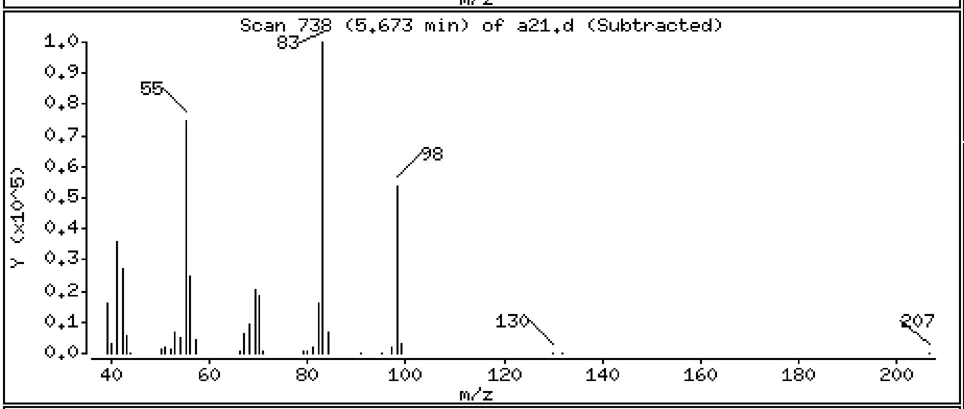
Column diameter: 0.18

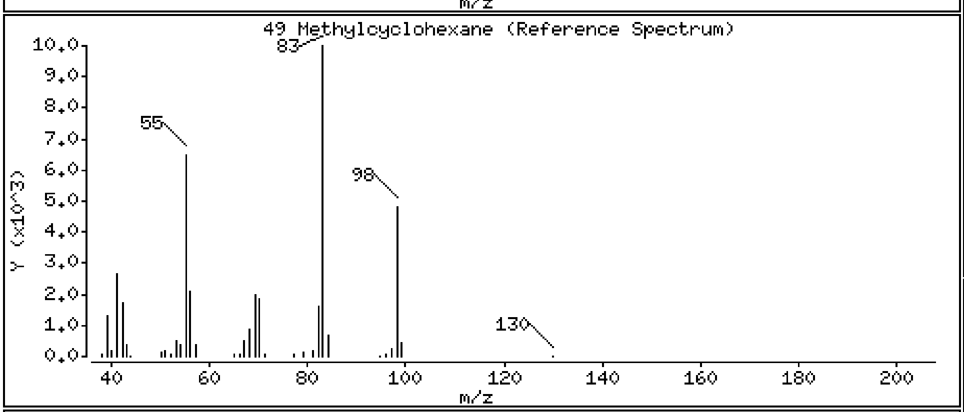
49 Methylcyclohexane

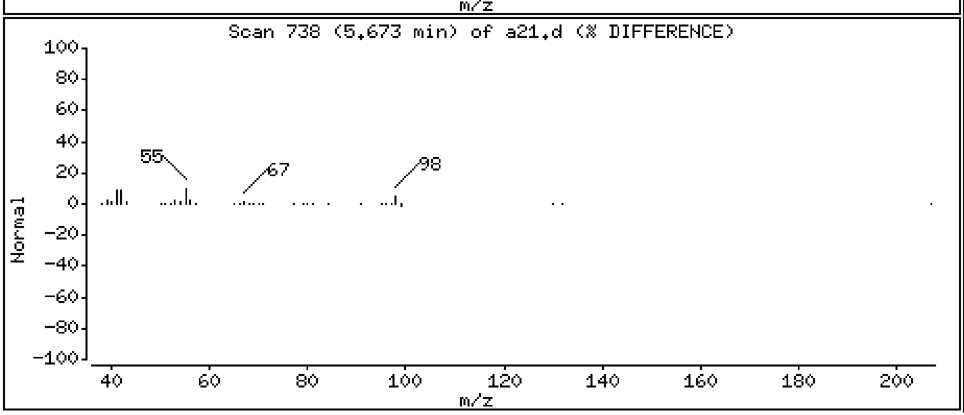
Concentration: 41.6 ppb

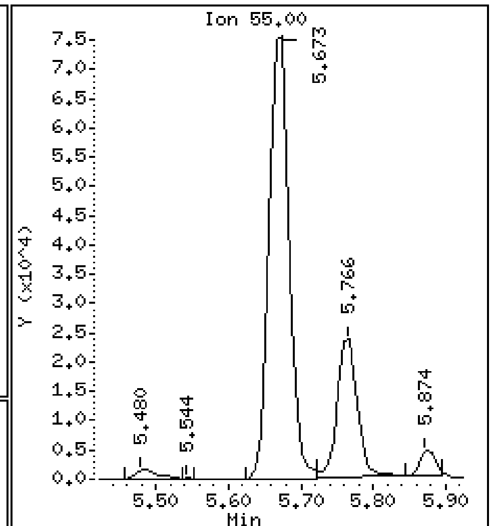
Review Code:

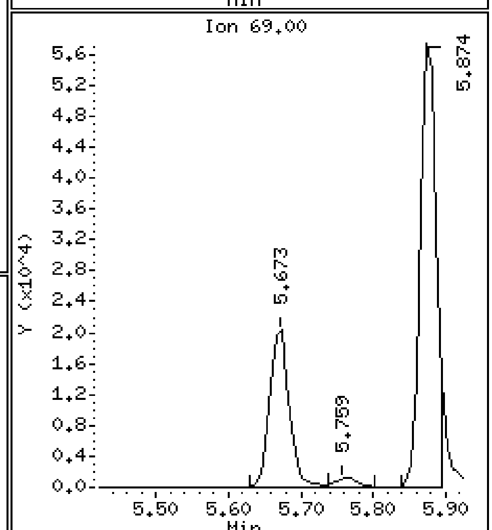


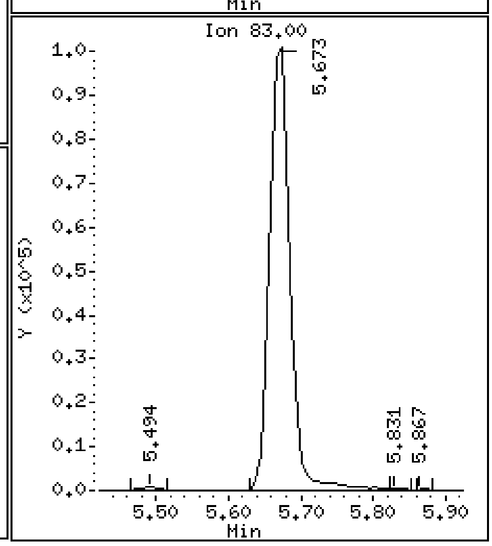












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

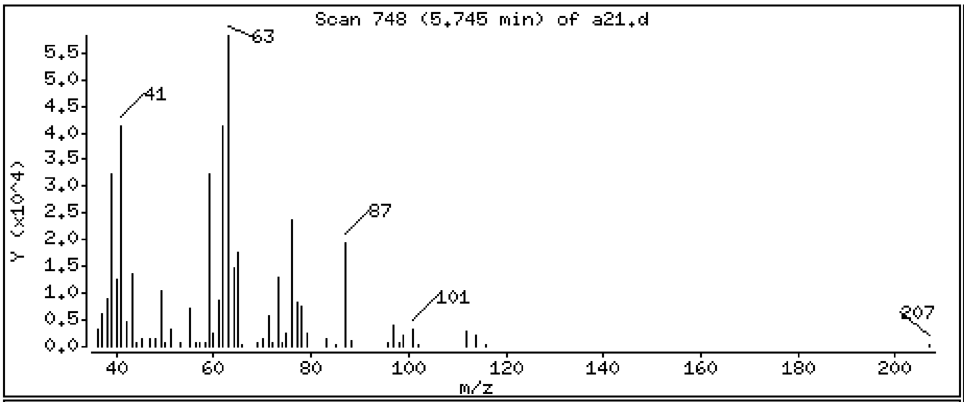
Column phase: DB-624

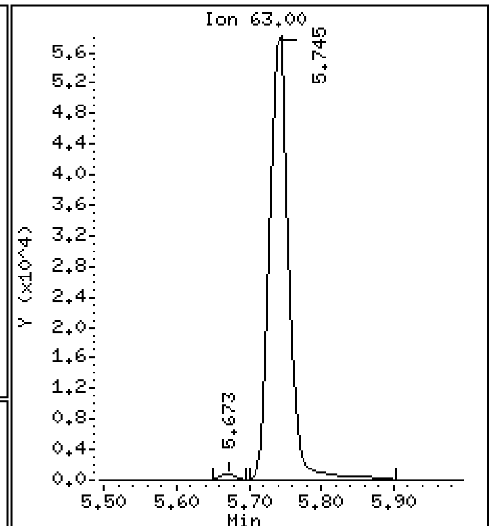
Column diameter: 0.18

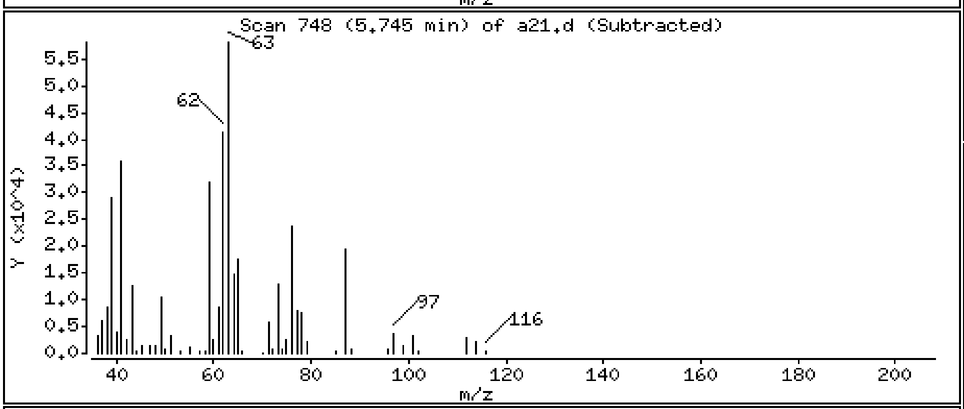
50 1,2-Dichloropropane

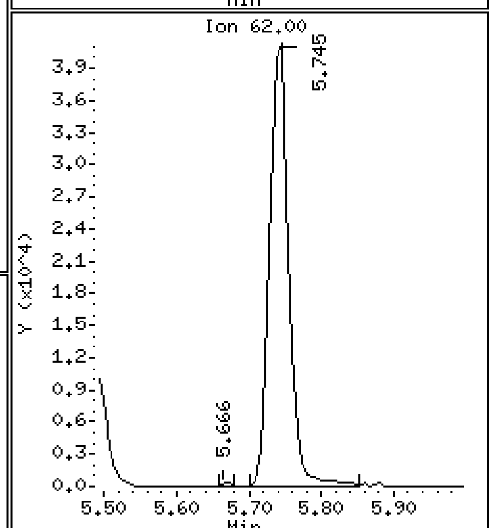
Concentration: 44.6 ppb

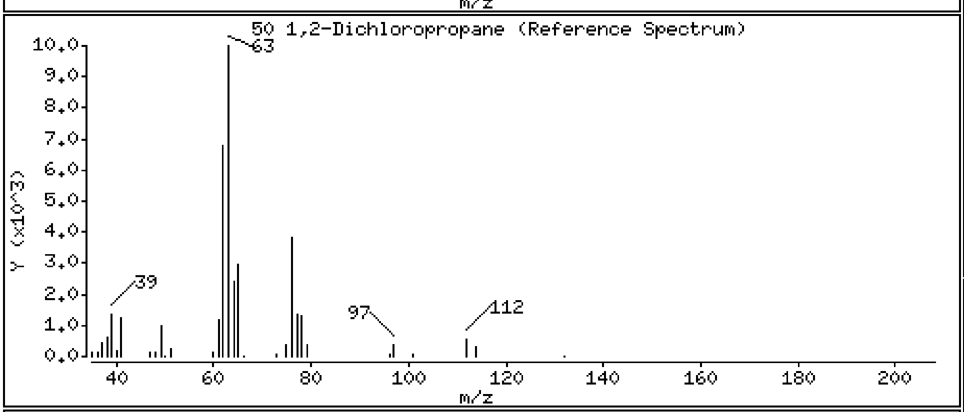
Review Code:

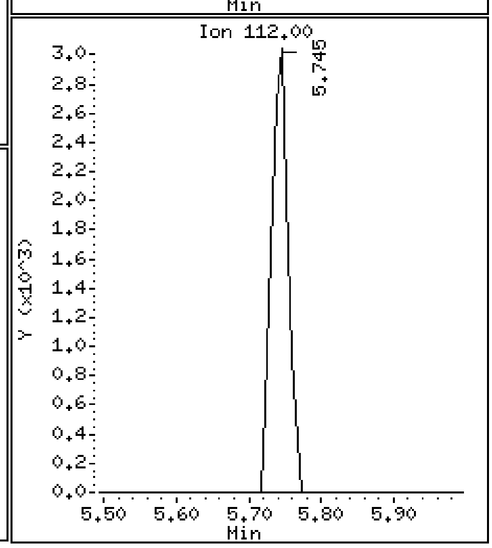


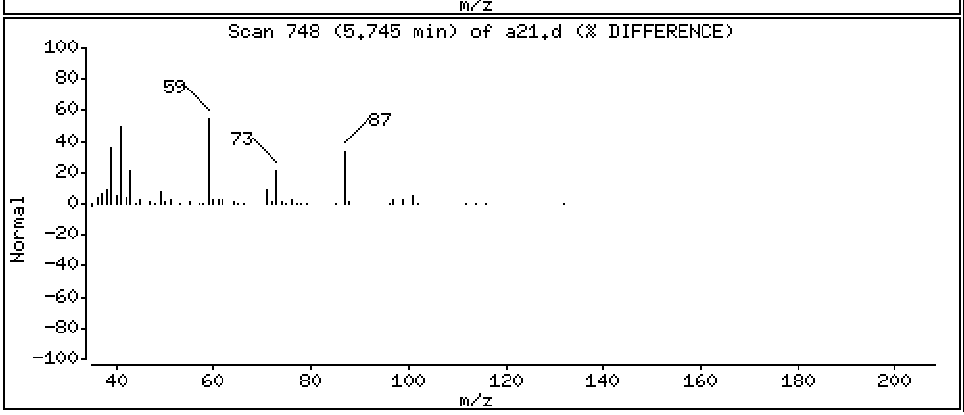












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

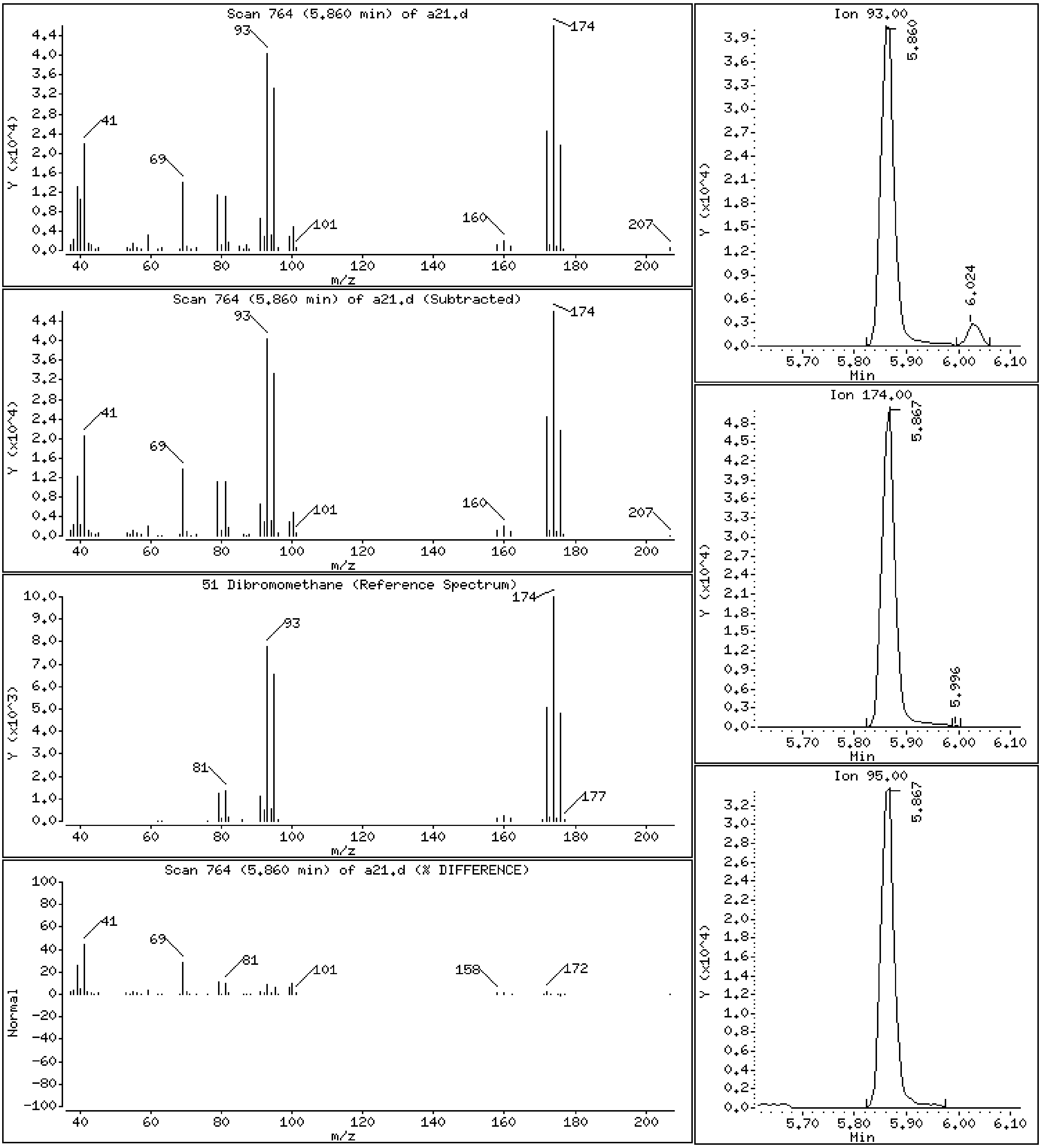
Column phase: DB-624

Column diameter: 0.18

51 Dibromomethane

Concentration: 49.7 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

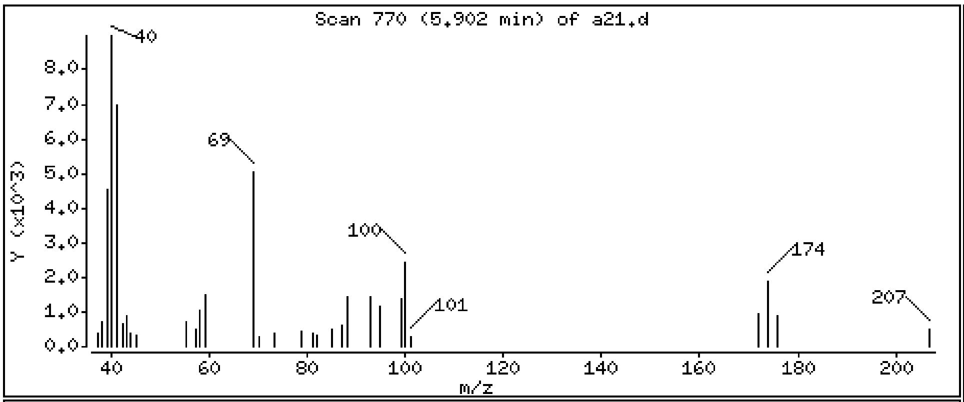
Column phase: DB-624

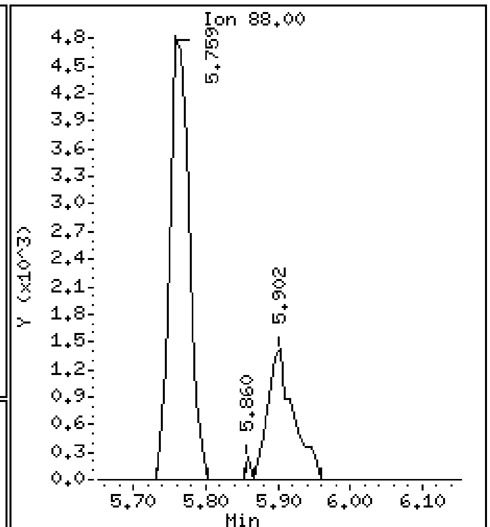
Column diameter: 0.18

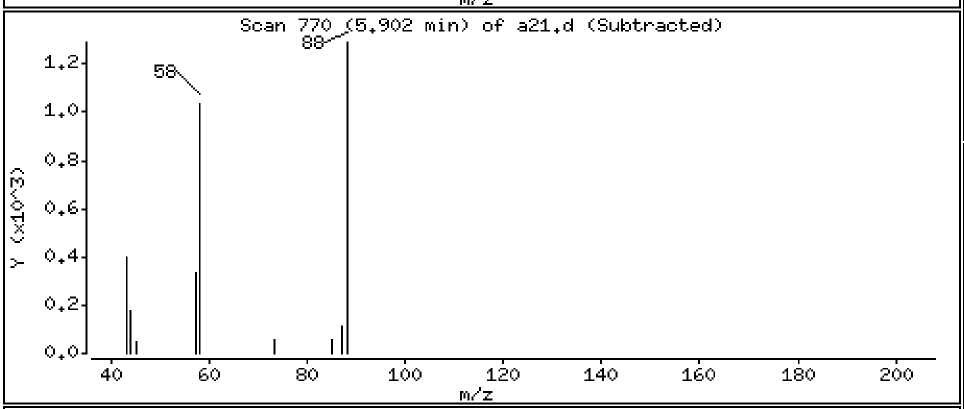
52 1,4-Dioxane

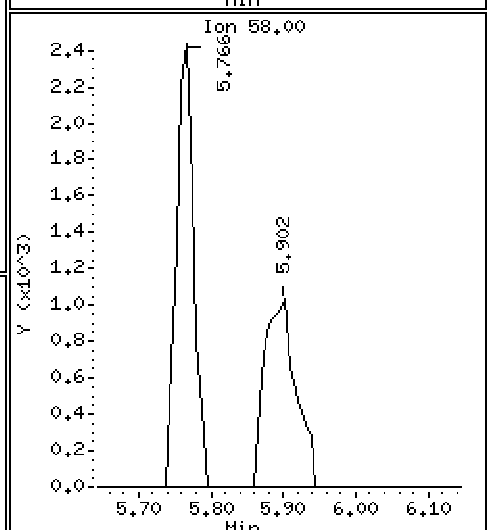
Concentration: 239 ppb

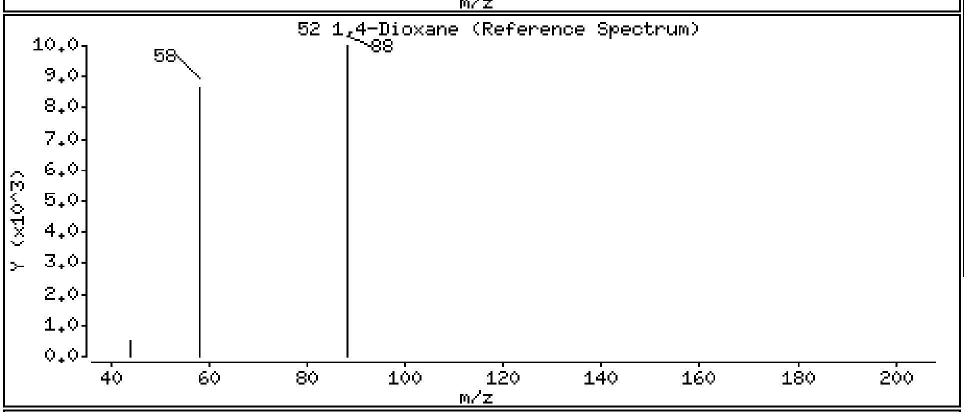
Review Code:

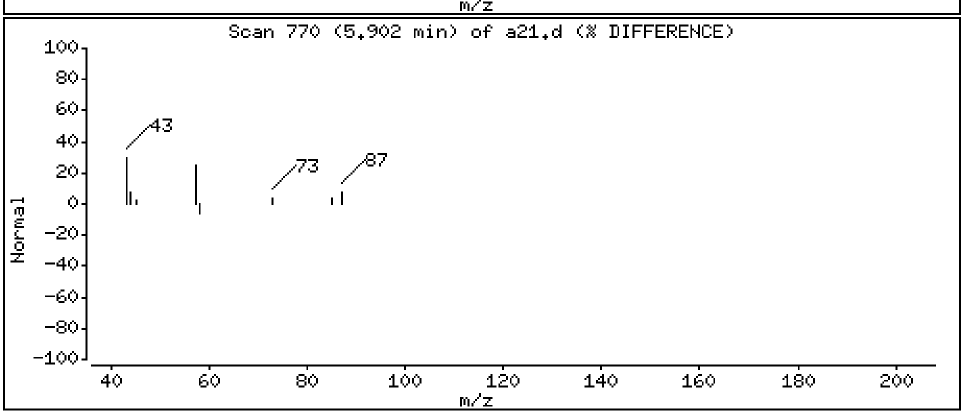












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

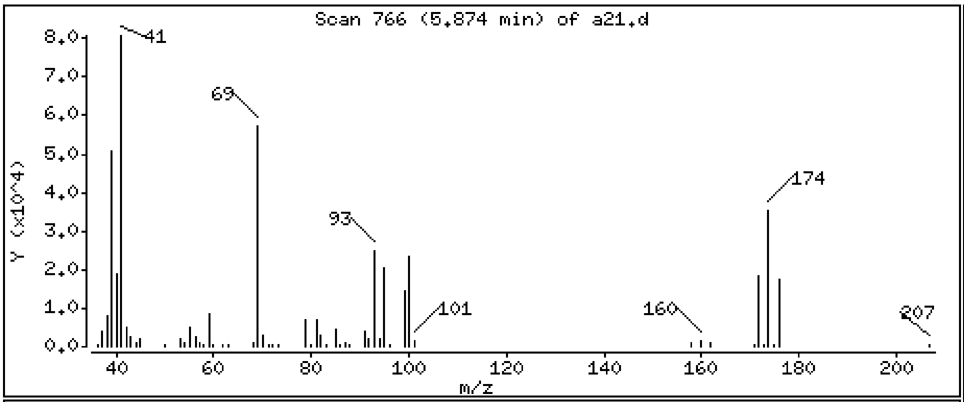
Column phase: DB-624

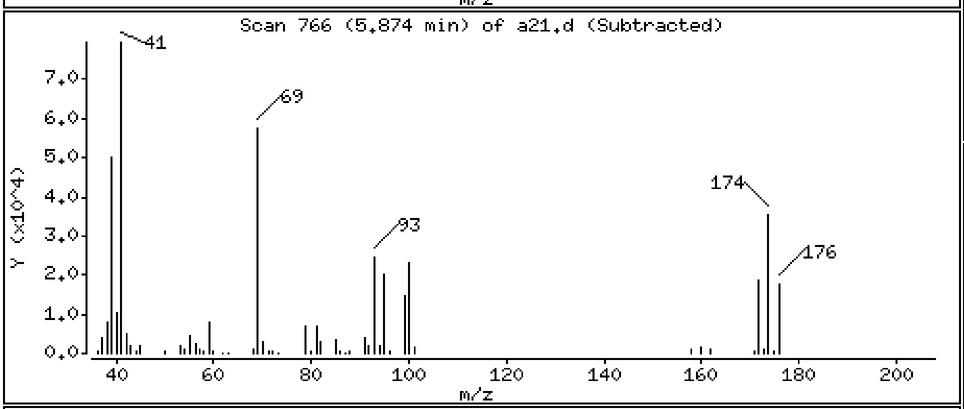
Column diameter: 0.18

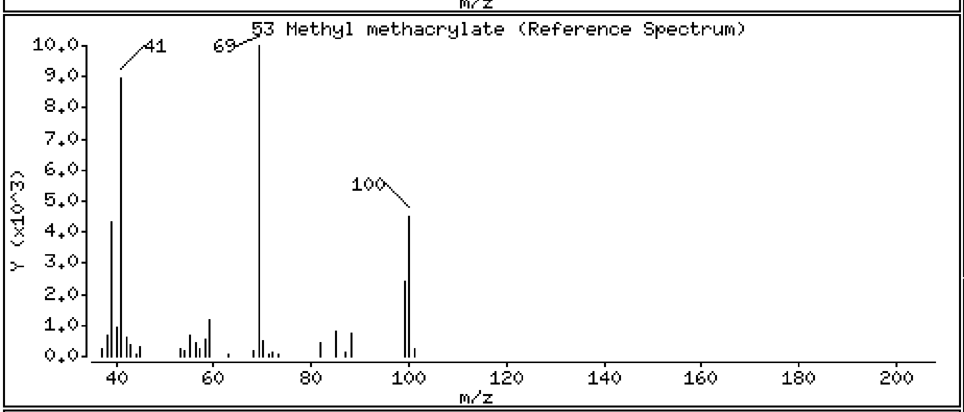
53 Methyl methacrylate

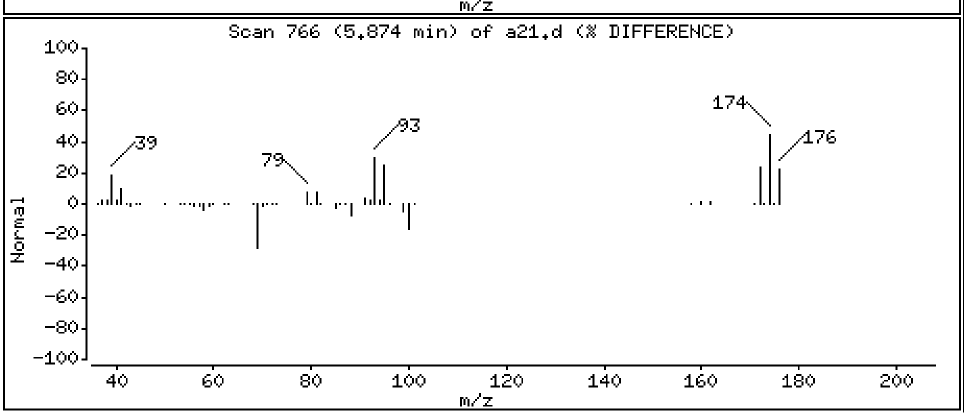
Concentration: 43.7 ppb

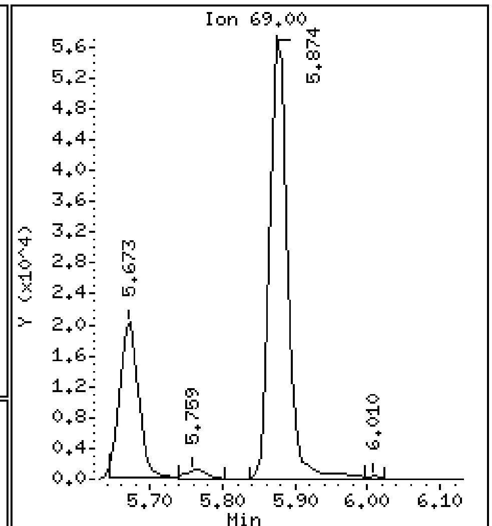
Review Code:

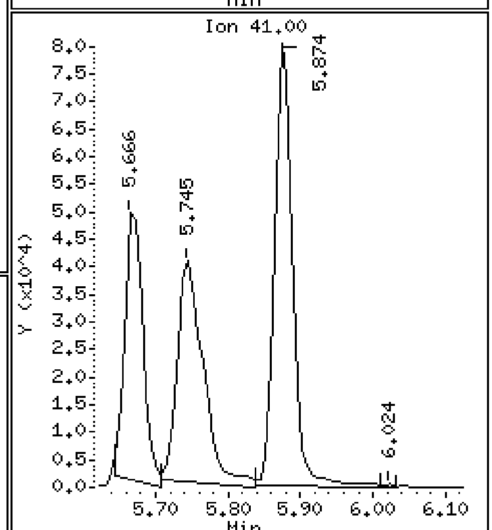


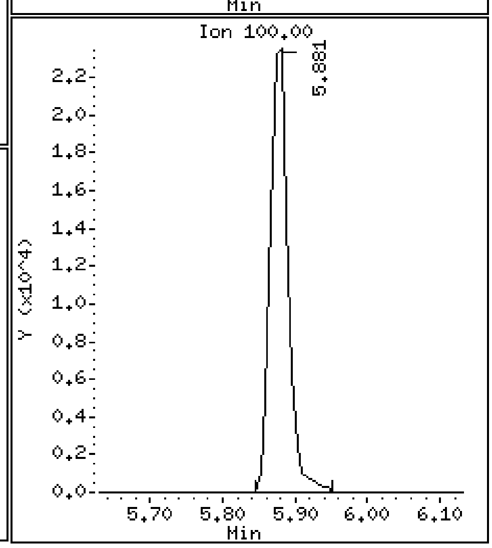












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

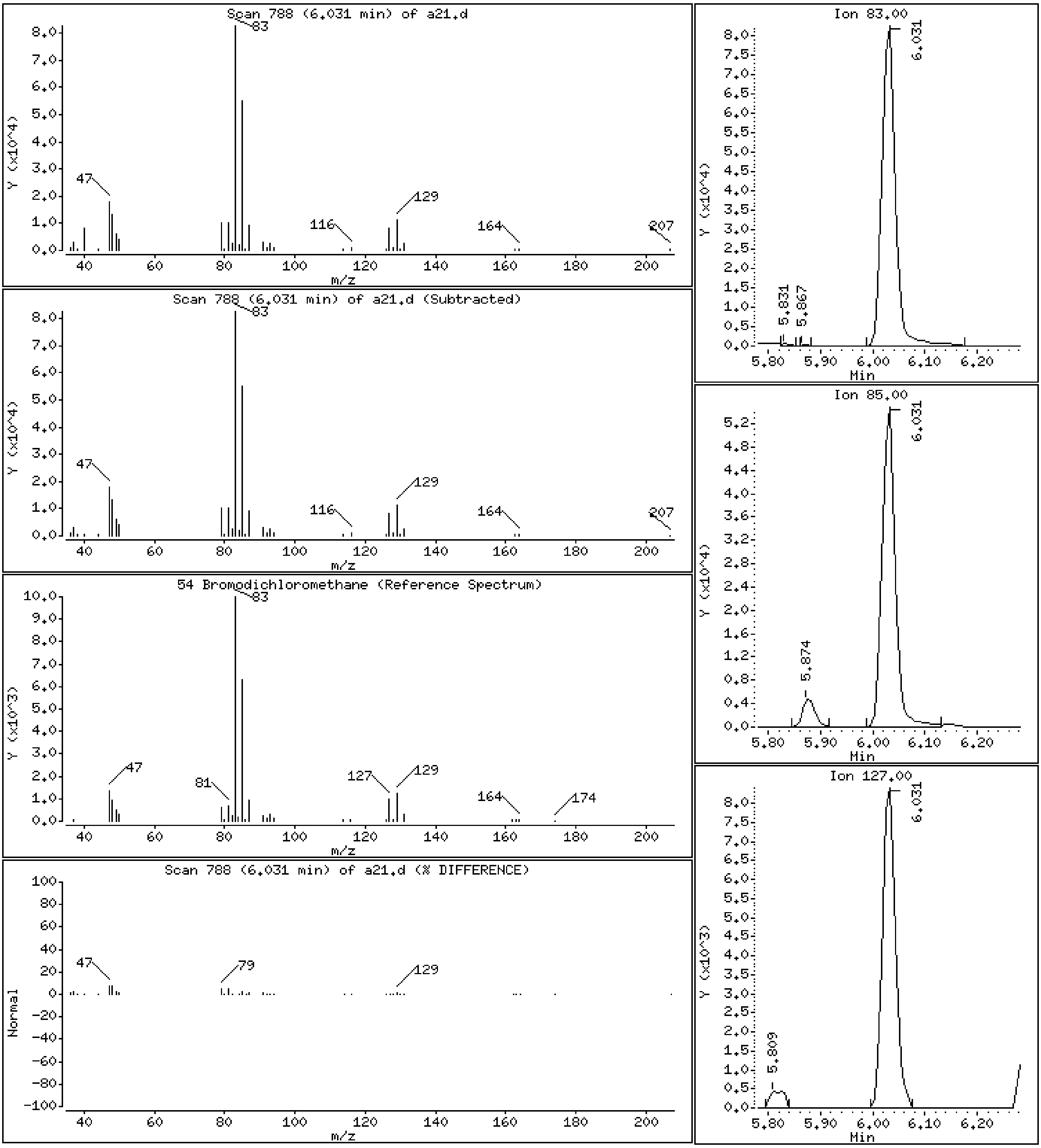
Column phase: DB-624

Column diameter: 0.18

54 Bromodichloromethane

Concentration: 49.9 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

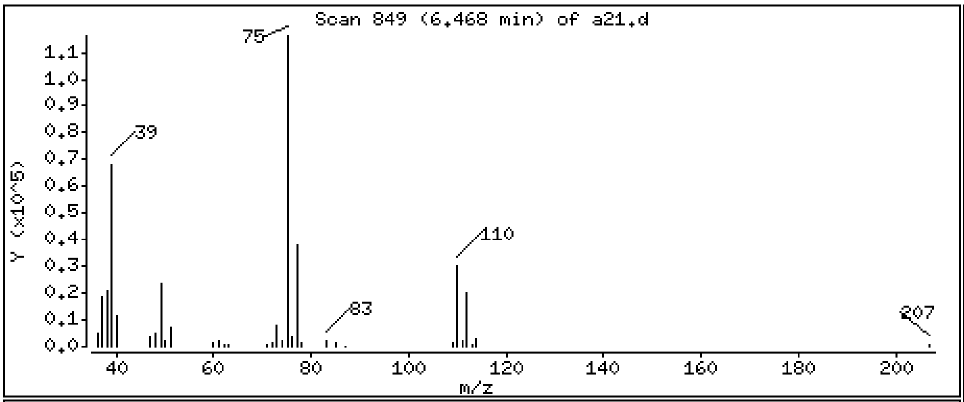
Column phase: DB-624

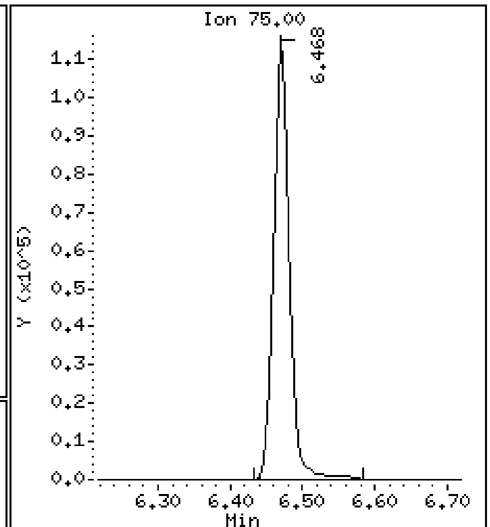
Column diameter: 0.18

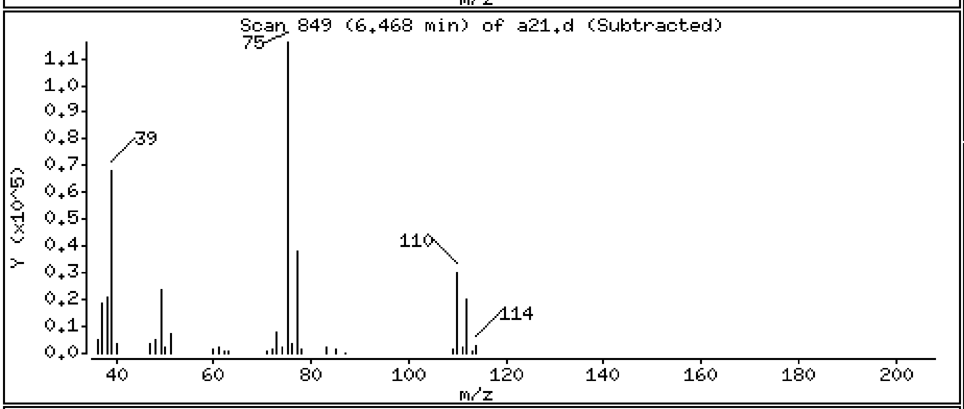
56 cis-1,3-Dichloropropene

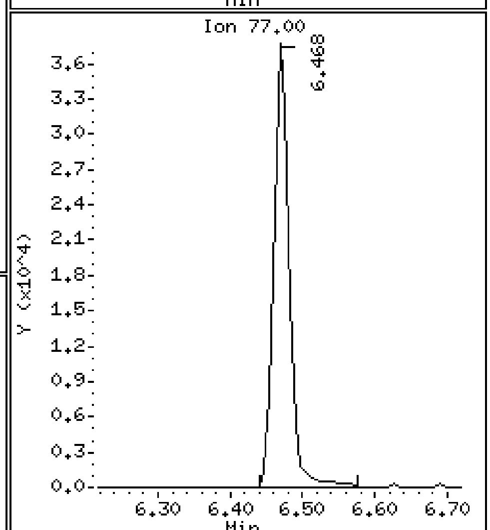
Concentration: 43.7 ppb

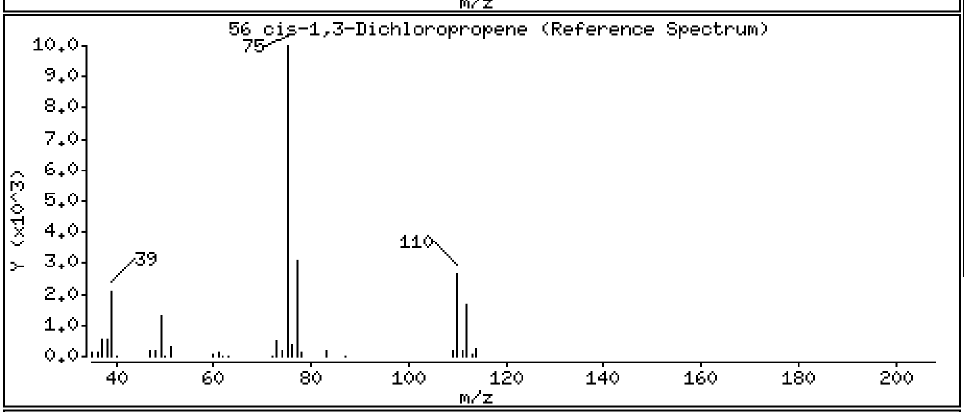
Review Code:

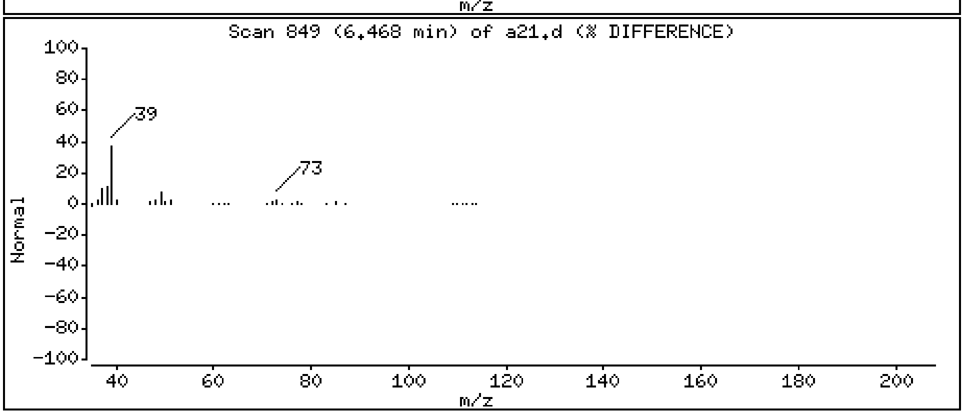












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

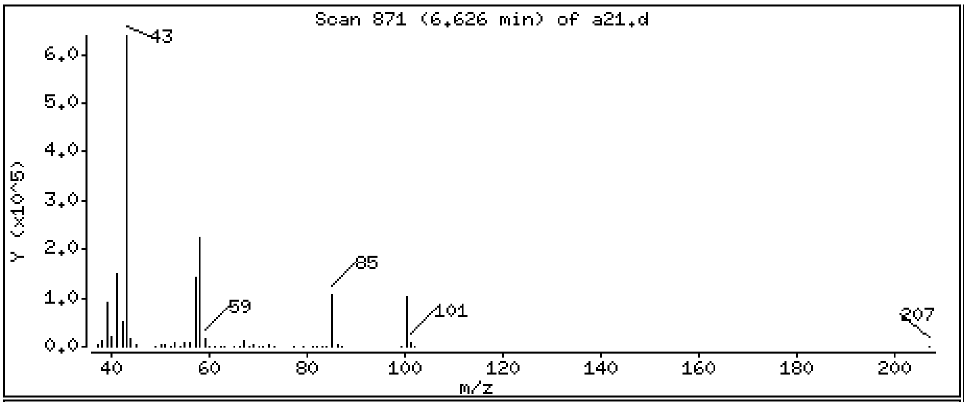
Column phase: DB-624

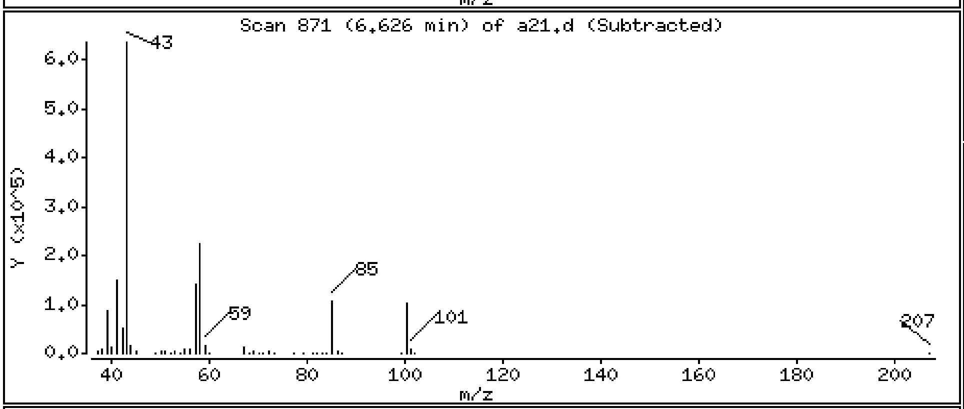
Column diameter: 0.18

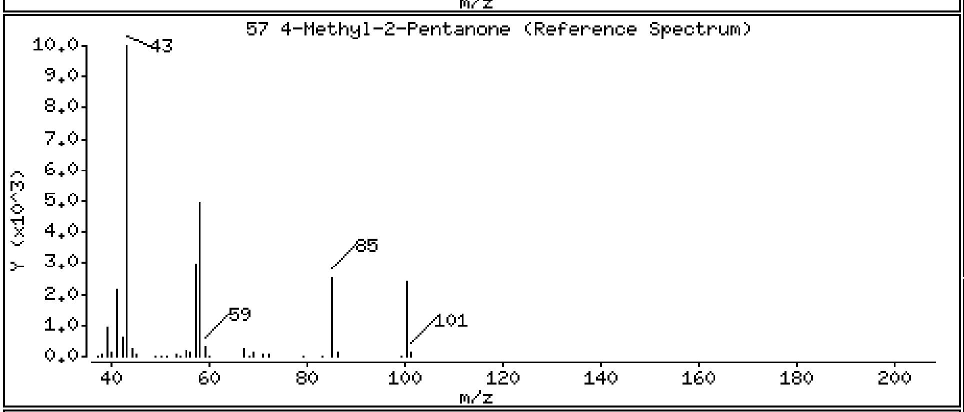
57 4-Methyl-2-Pentanone

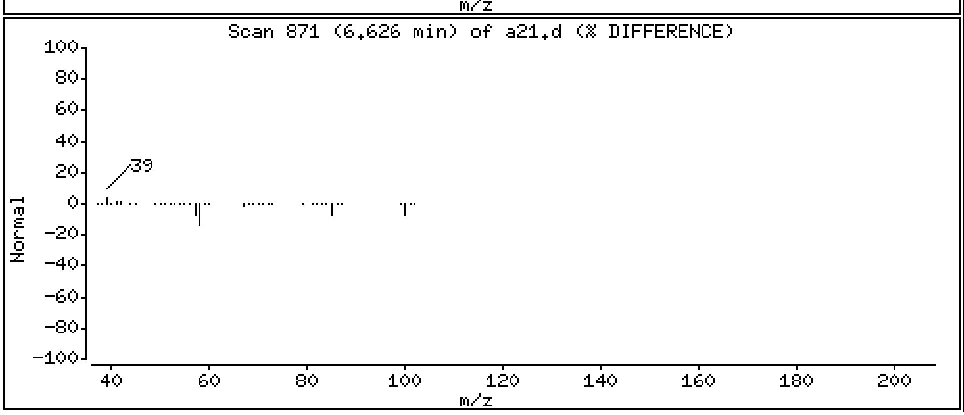
Concentration: 205 ppb

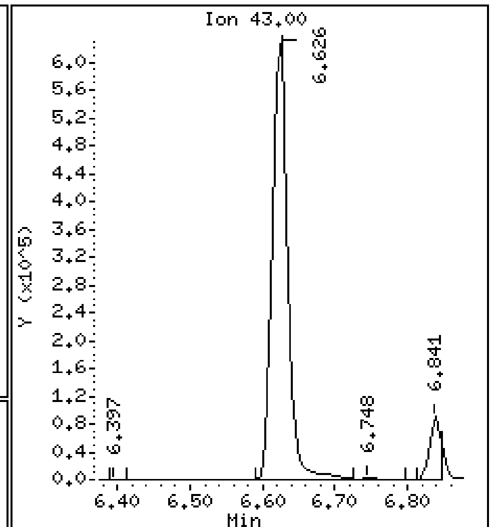
Review Code:

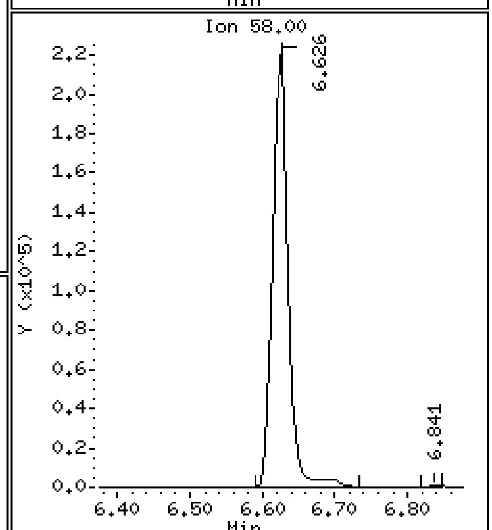


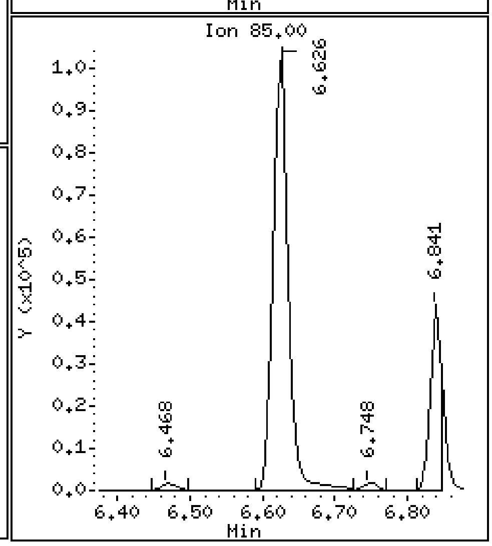












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

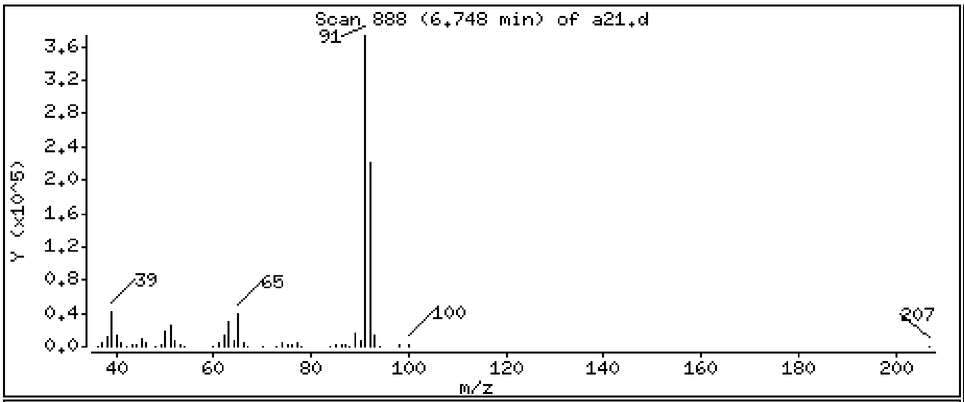
Column phase: DB-624

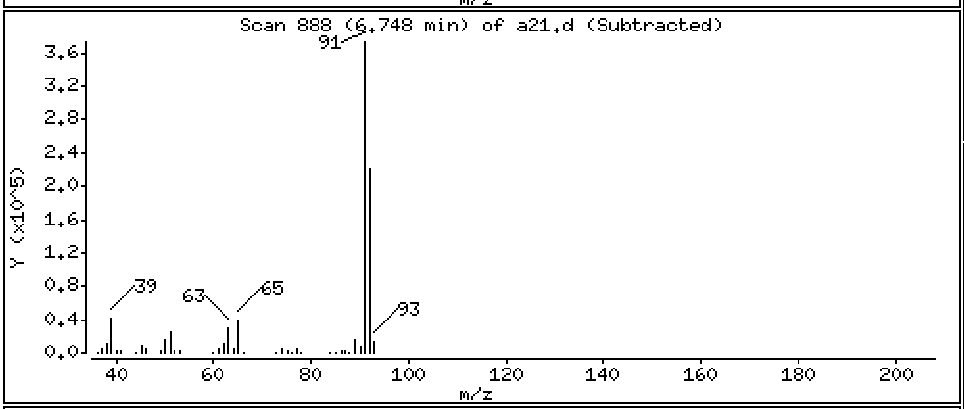
Column diameter: 0.18

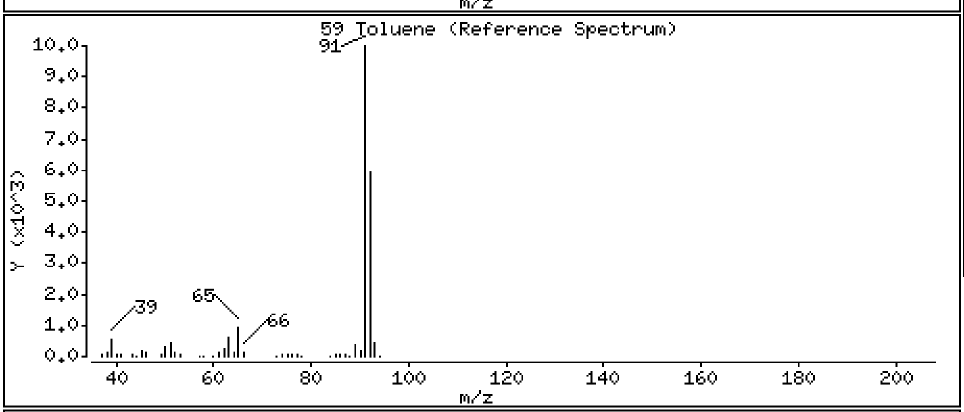
59 Toluene

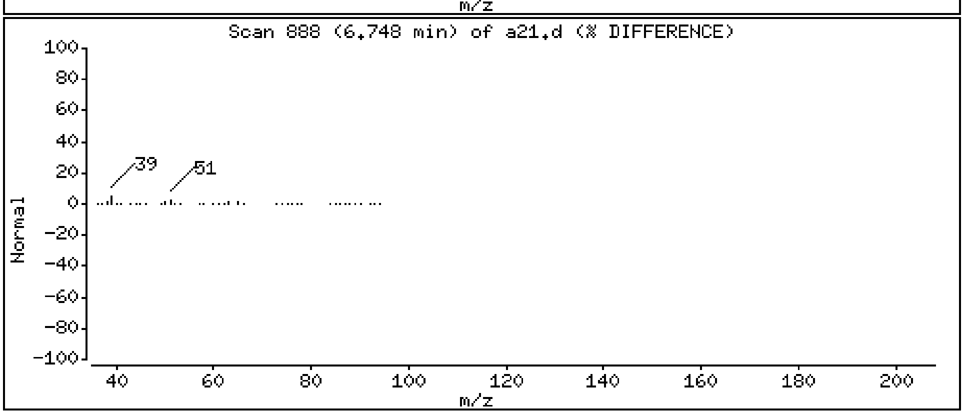
Concentration: 42.6 ppb

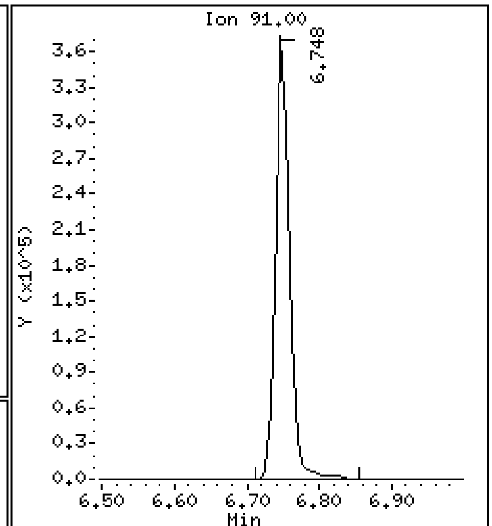
Review Code:

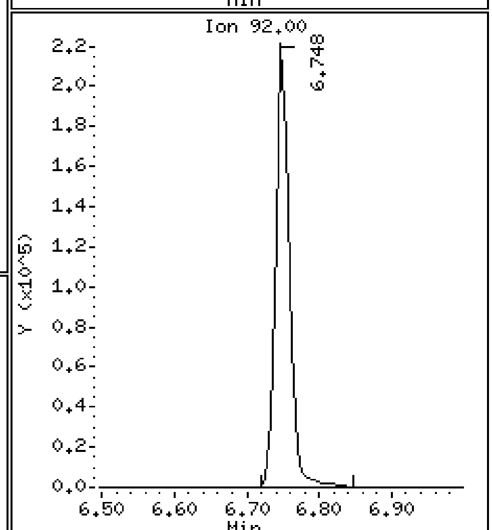












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

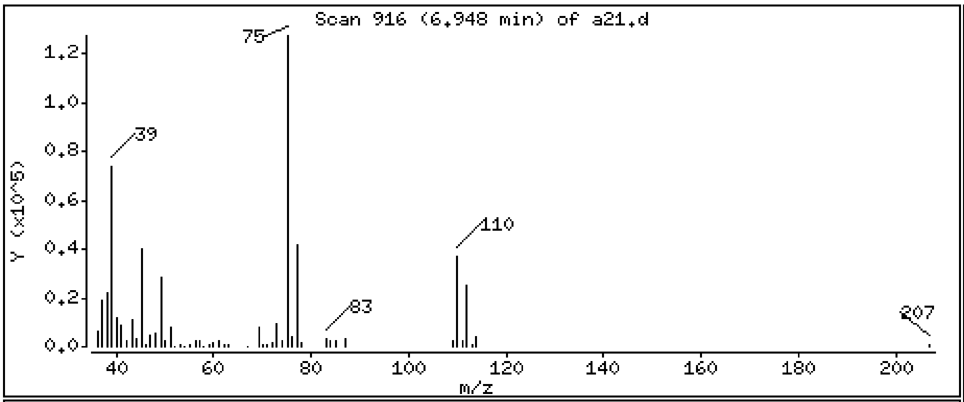
Column phase: DB-624

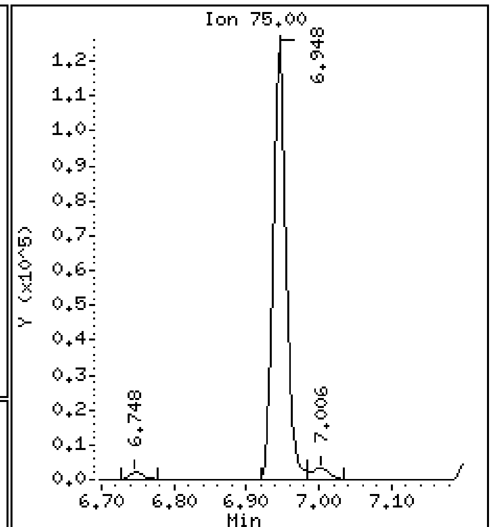
Column diameter: 0.18

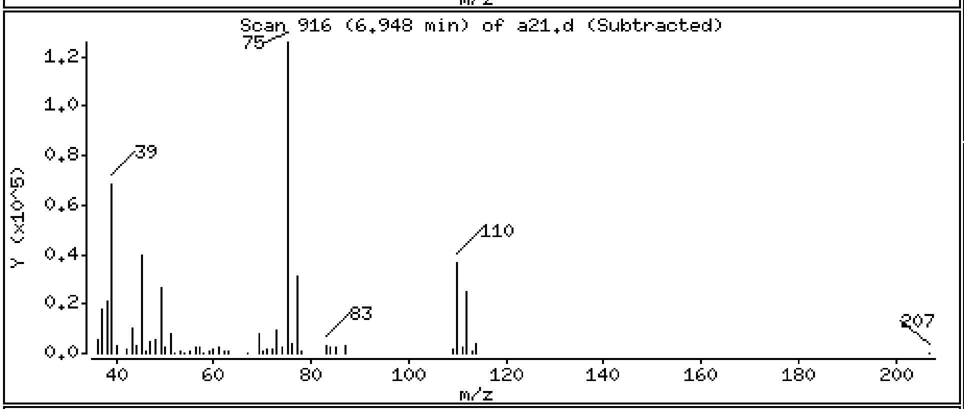
60 trans-1,3-Dichloropropene

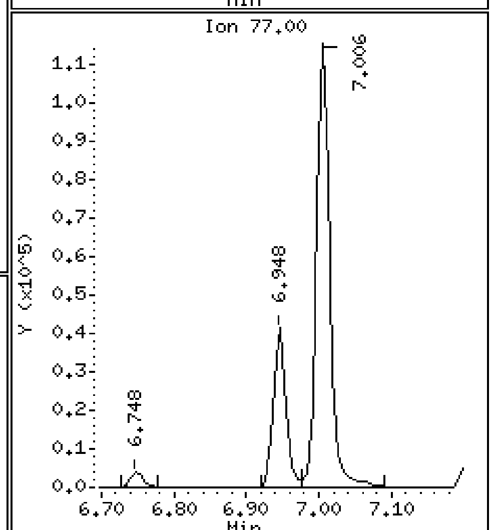
Concentration: 42.7 ppb

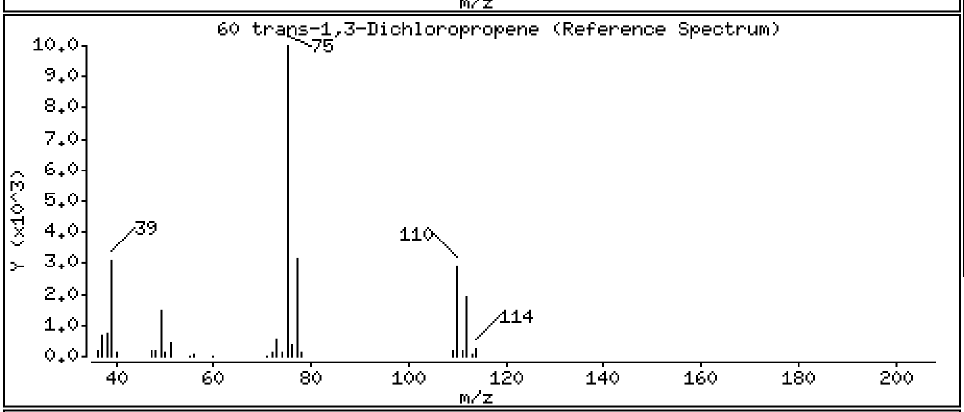
Review Code:

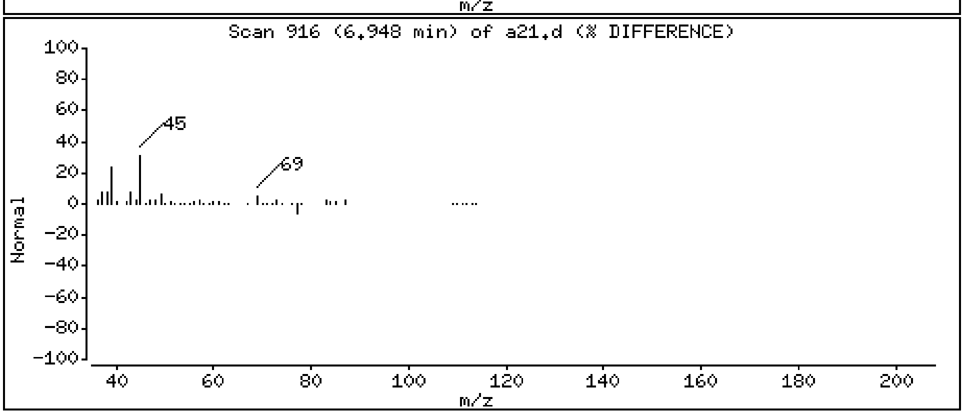












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d Page 61

Date : 23-JAN-2023 19:36

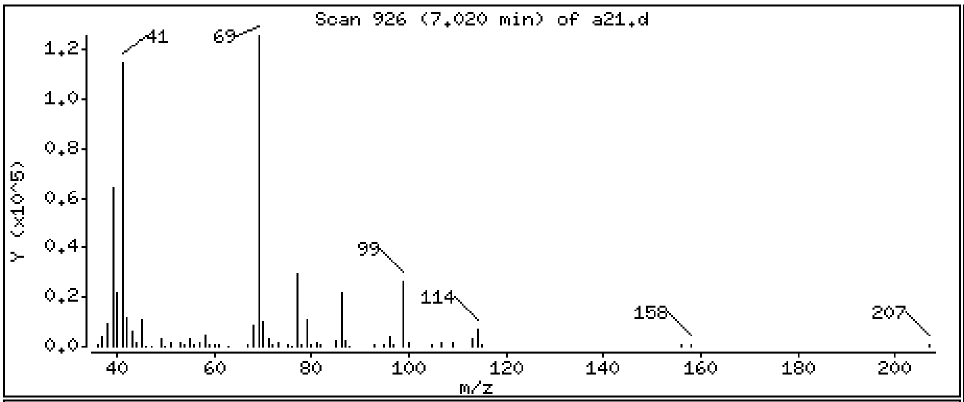
Client ID: LA2268MS Instrument: 50mvda.i

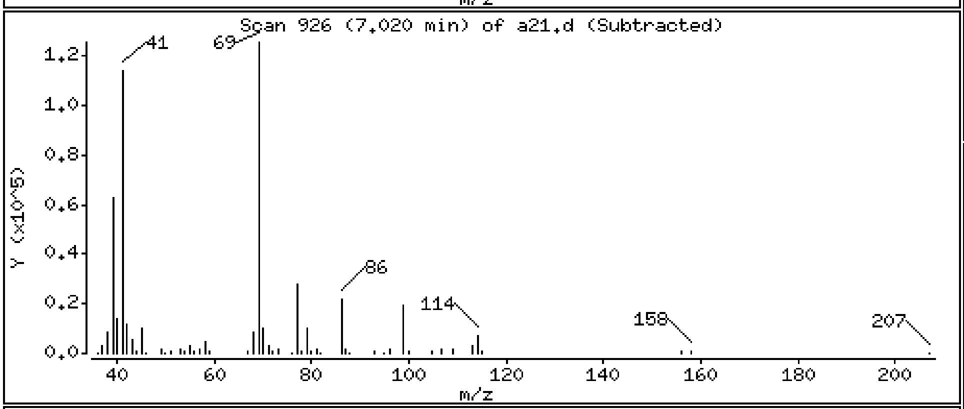
Sample Info: 3287469,336256:5

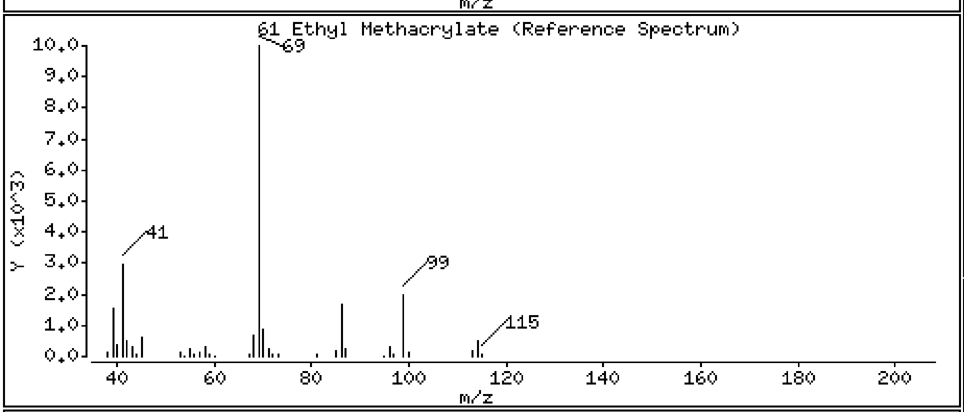
Purge Volume: 5.0 Operator: tkg

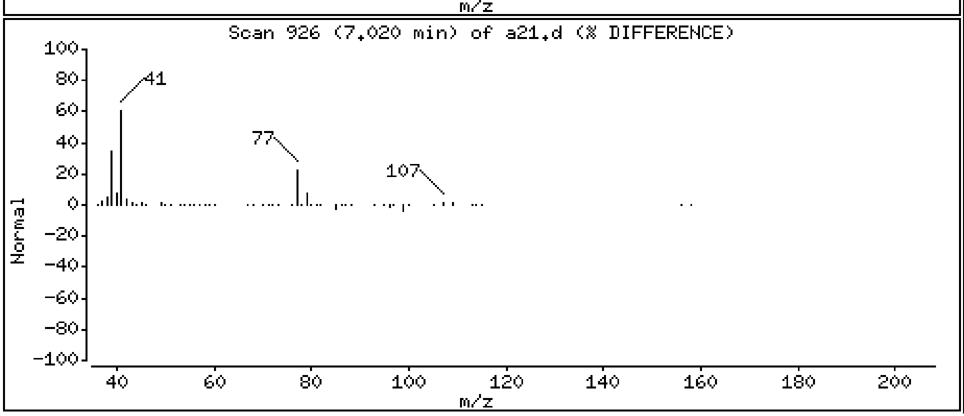
Column phase: DB-624 Column diameter: 0.18

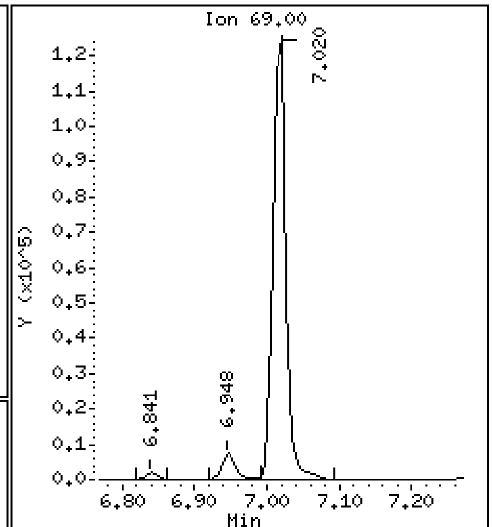
61 Ethyl Methacrylate Concentration: 41.2 ppb Review Code:

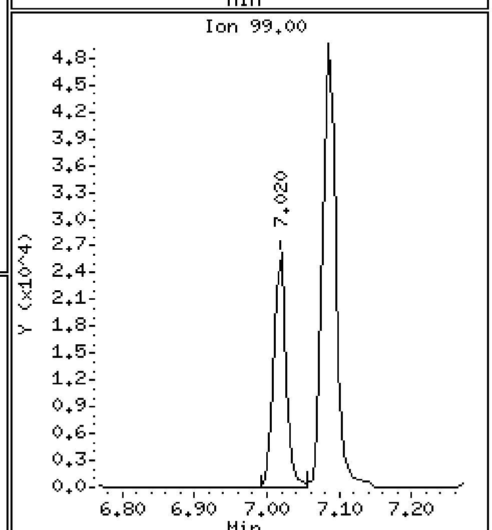


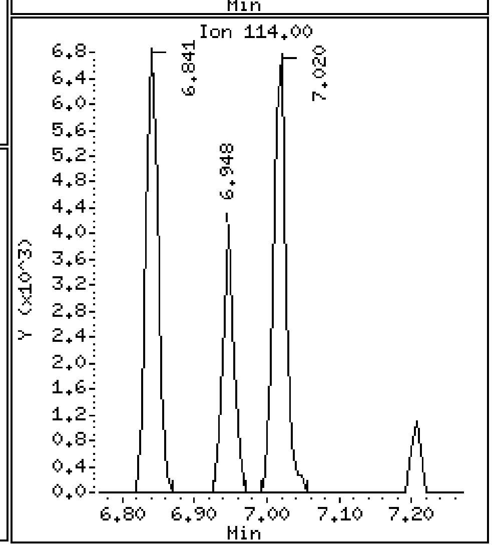












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

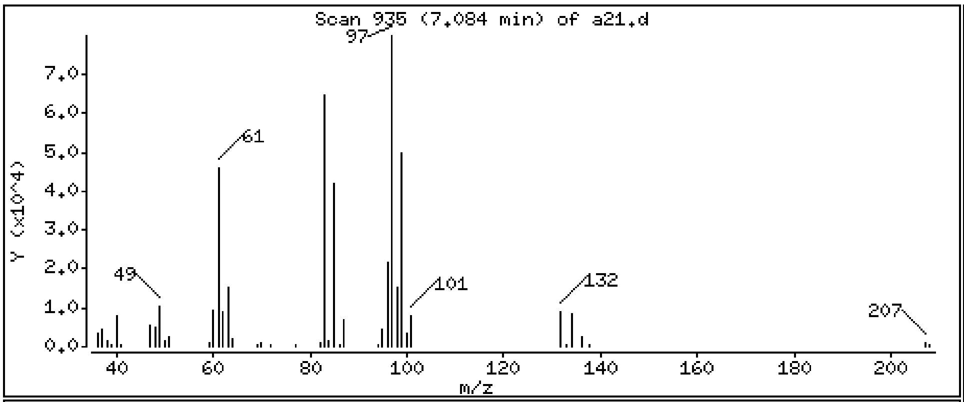
Column phase: DB-624

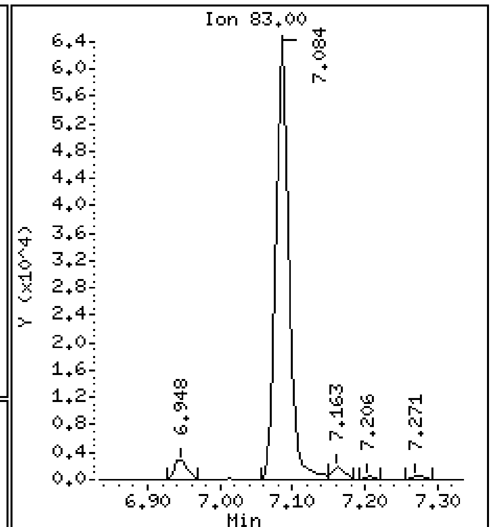
Column diameter: 0.18

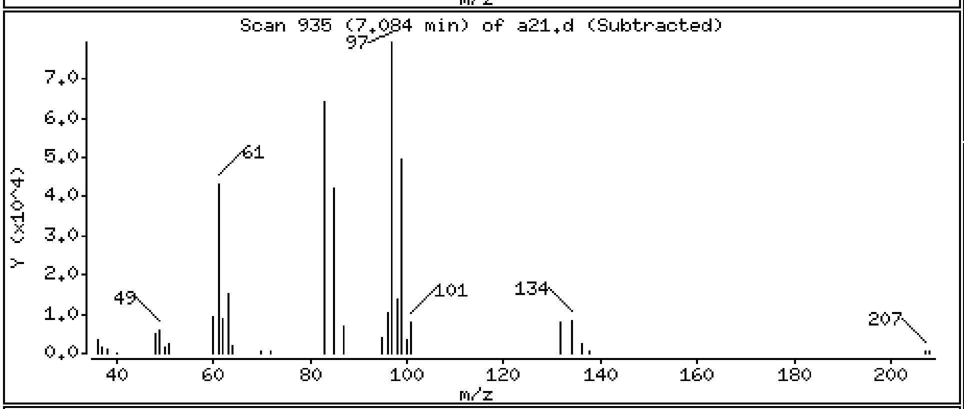
62 1,1,2-Trichloroethane

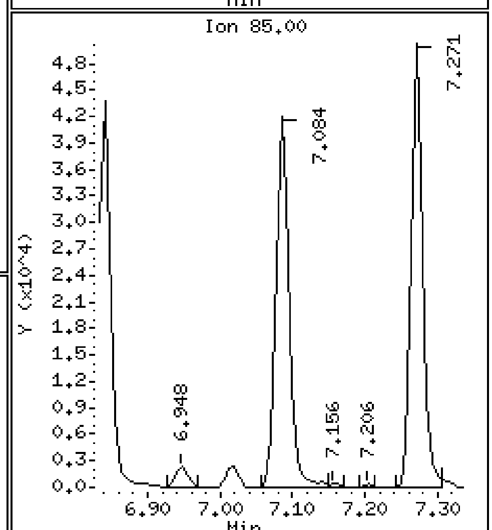
Concentration: 43.3 ppb

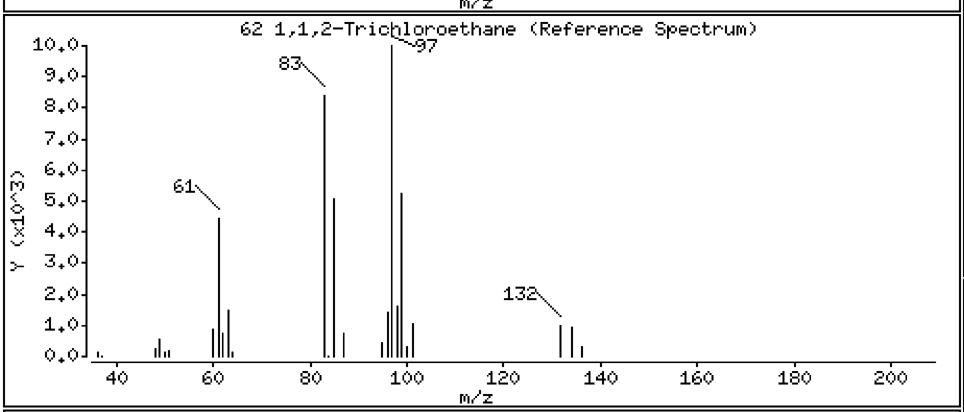
Review Code:

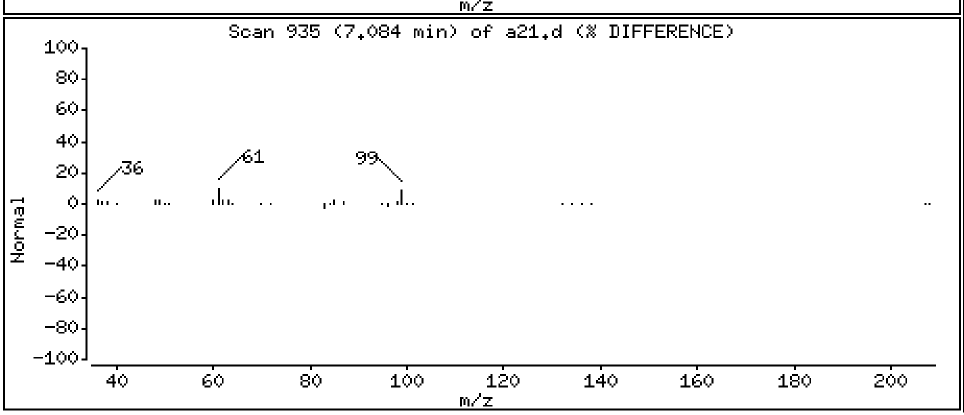


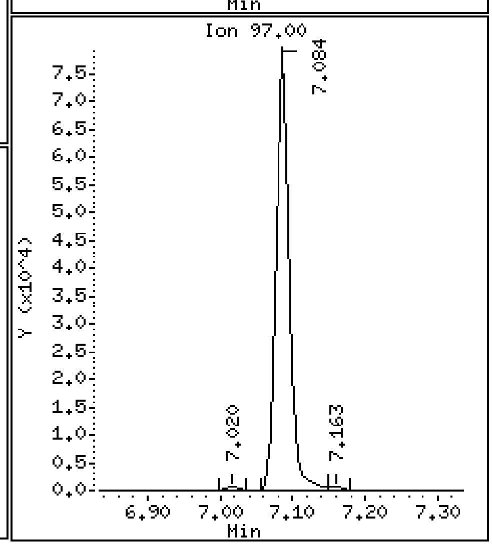












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

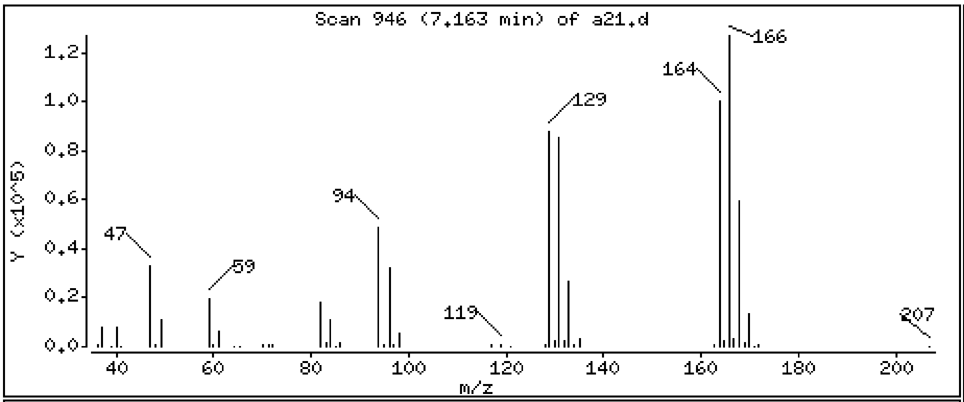
Column phase: DB-624

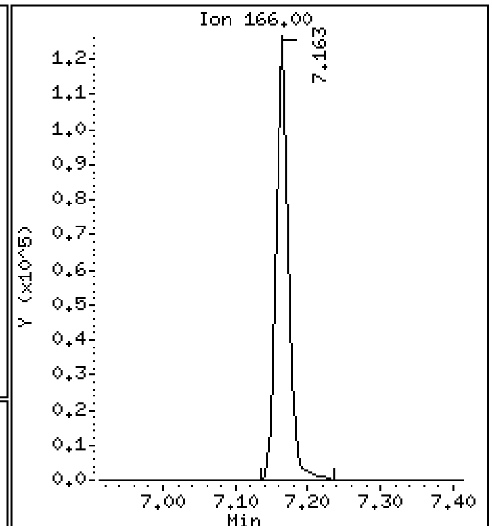
Column diameter: 0.18

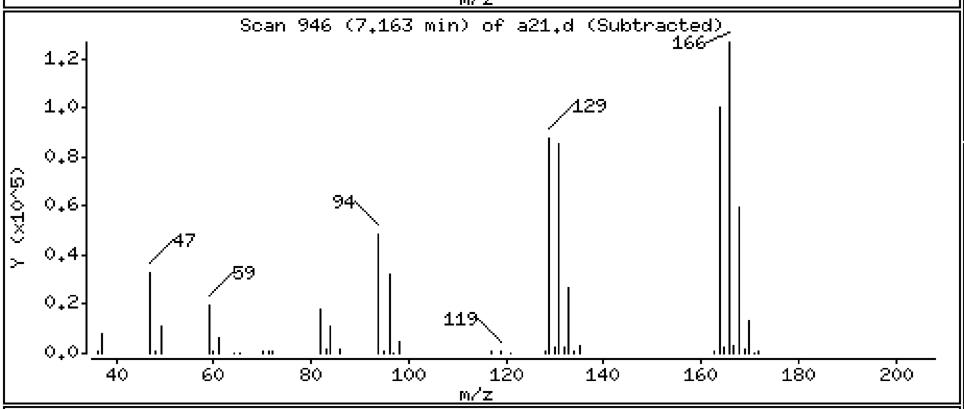
63 Tetrachloroethene

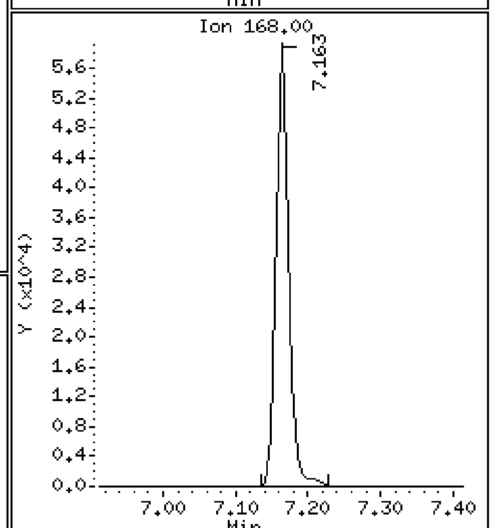
Concentration: 52.0 ppb

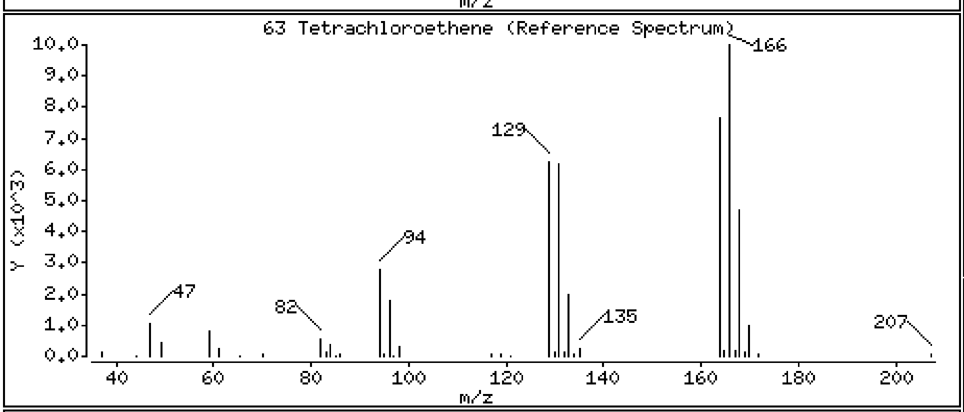
Review Code:

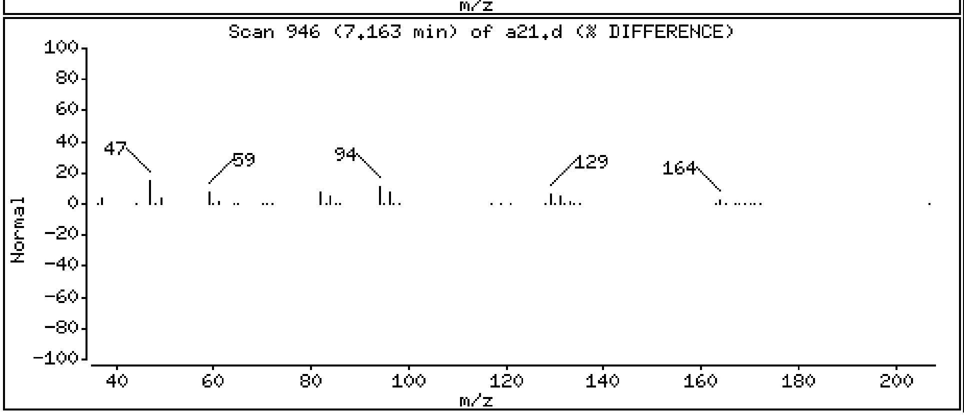


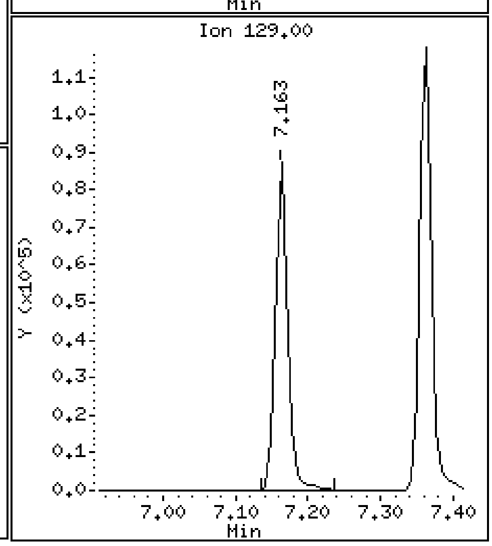












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

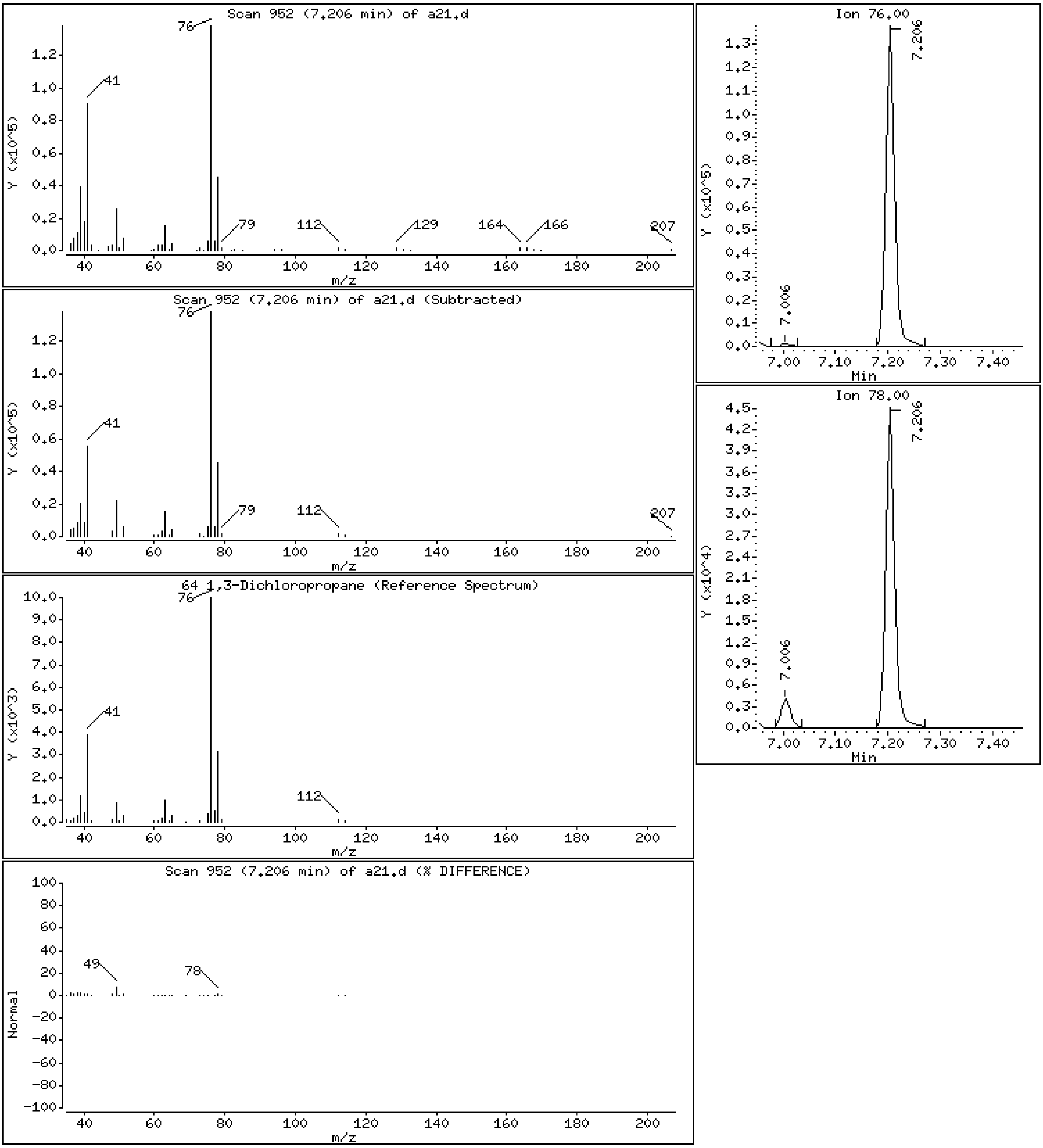
Column phase: DB-624

Column diameter: 0.18

64 1,3-Dichloropropane

Concentration: 44.0 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

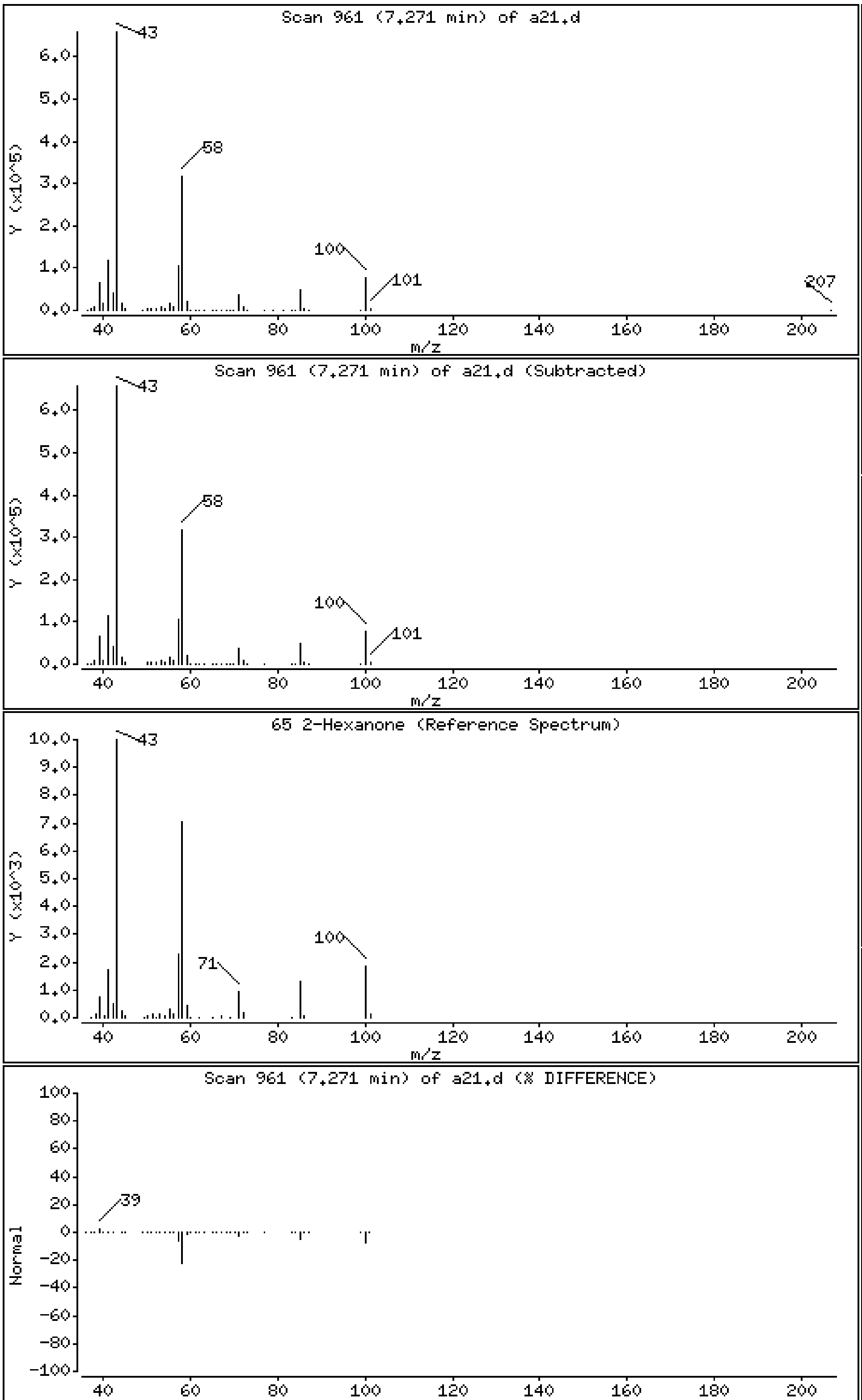
Column phase: DB-624

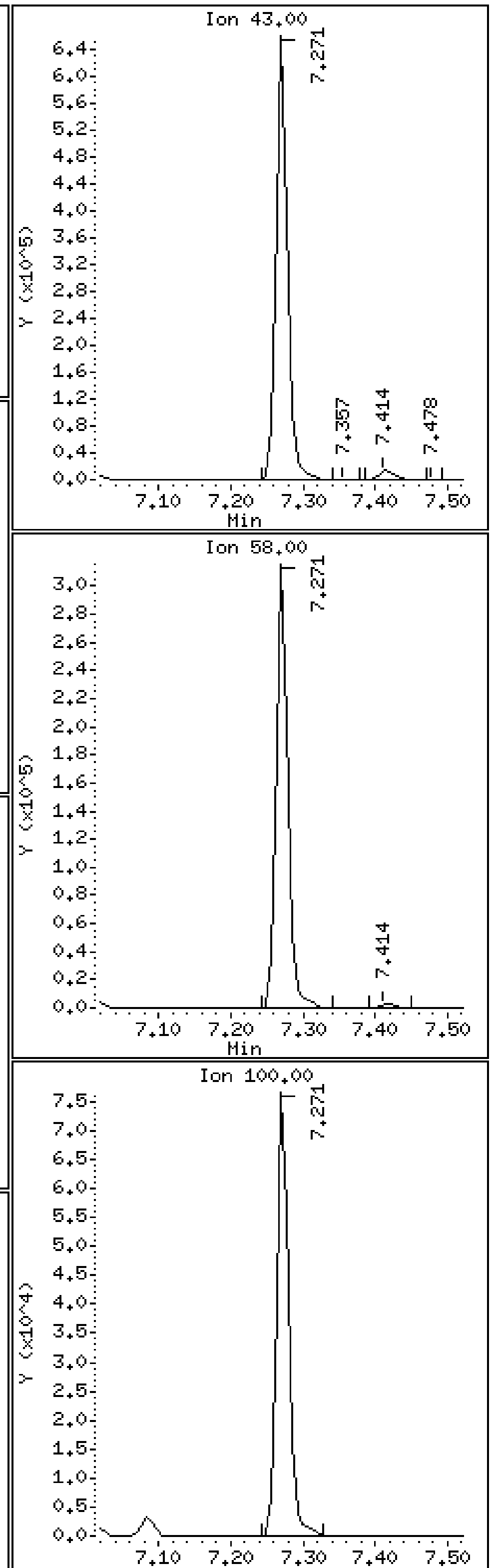
Column diameter: 0.18

65 2-Hexanone

Concentration: 199 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

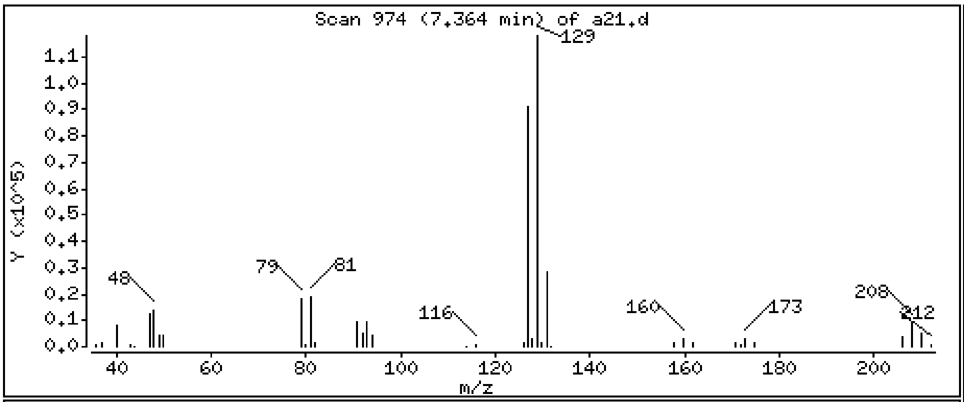
Column phase: DB-624

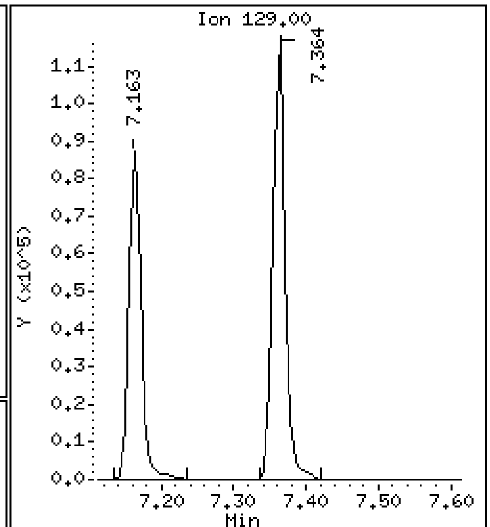
Column diameter: 0.18

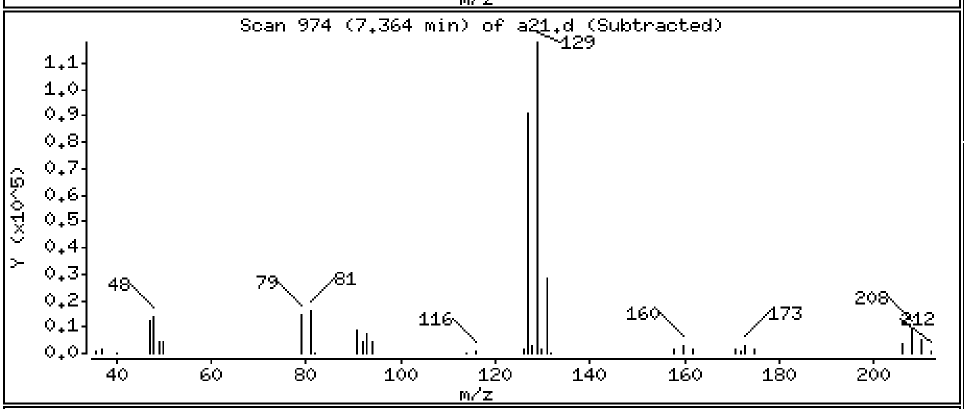
66 Dibromochloromethane

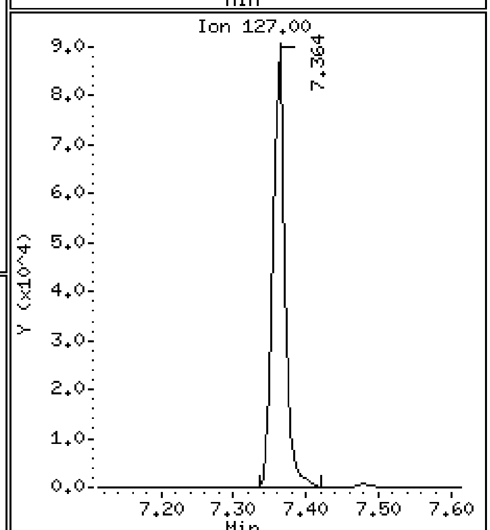
Concentration: 50.8 ppb

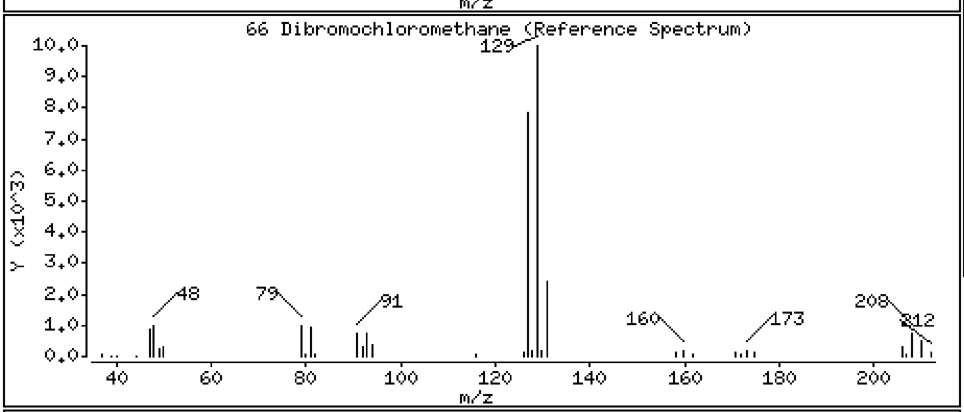
Review Code:

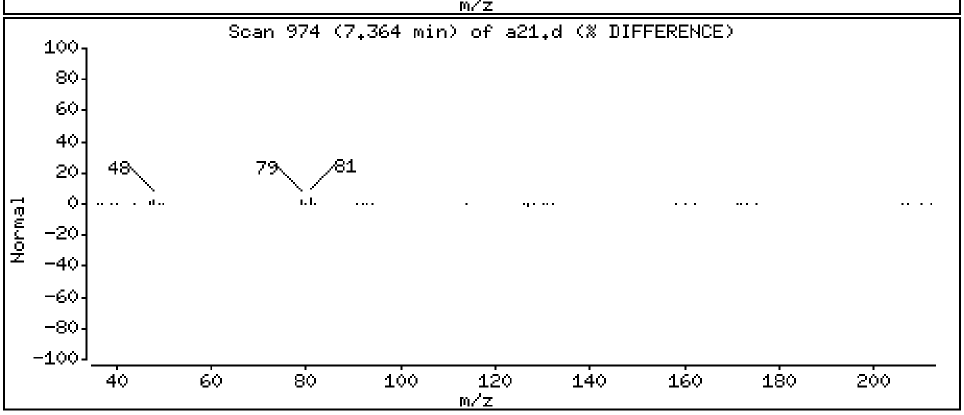












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

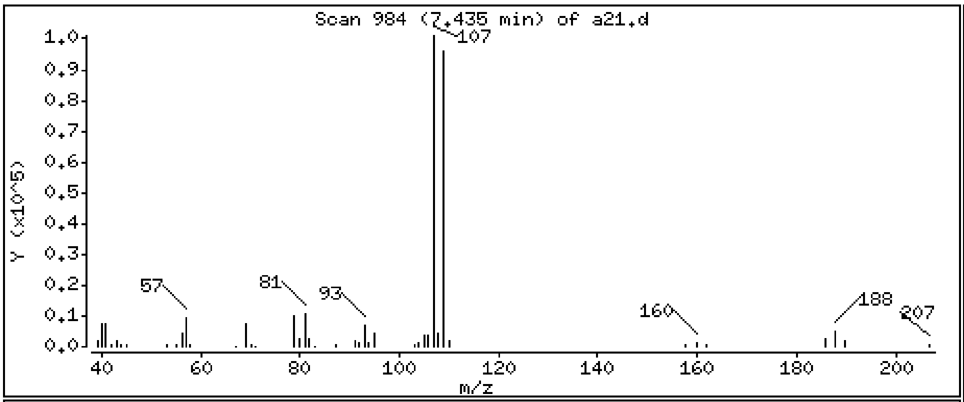
Column phase: DB-624

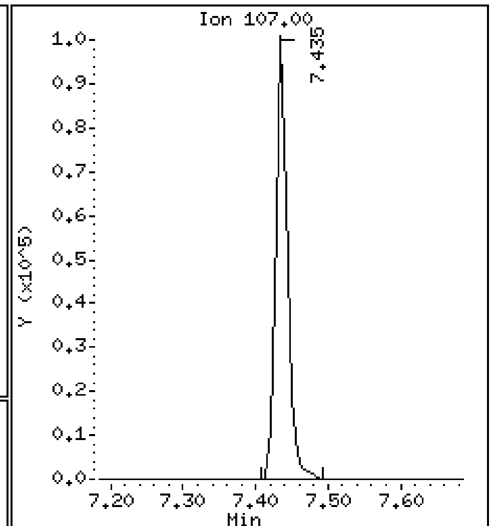
Column diameter: 0.18

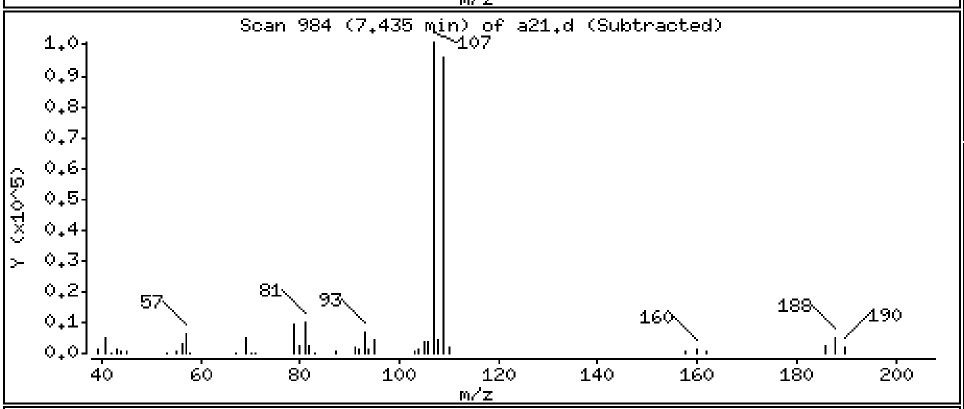
67 1,2-Dibromoethane

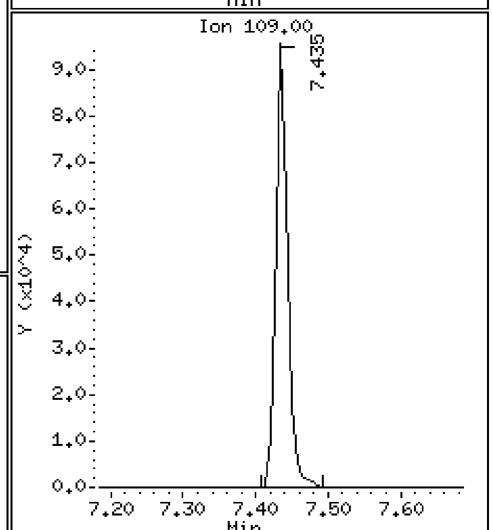
Concentration: 45.9 ppb

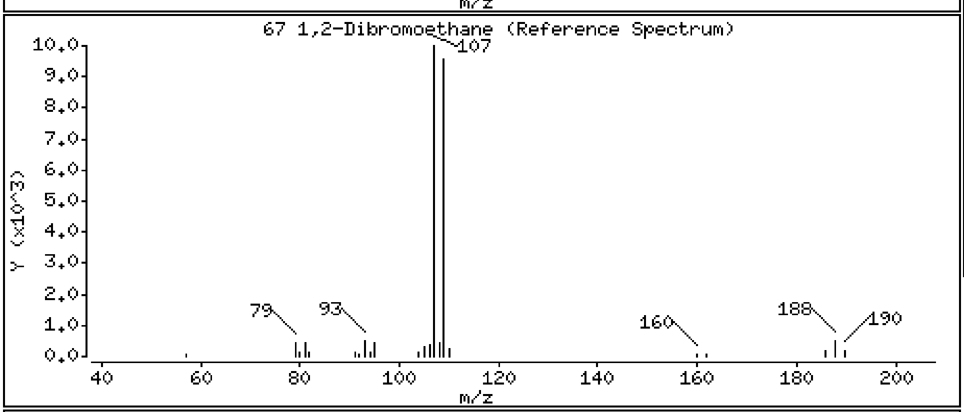
Review Code:

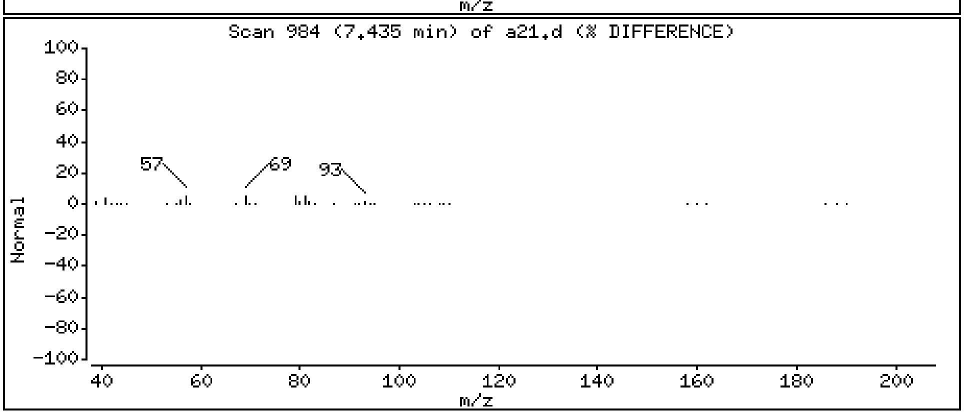












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

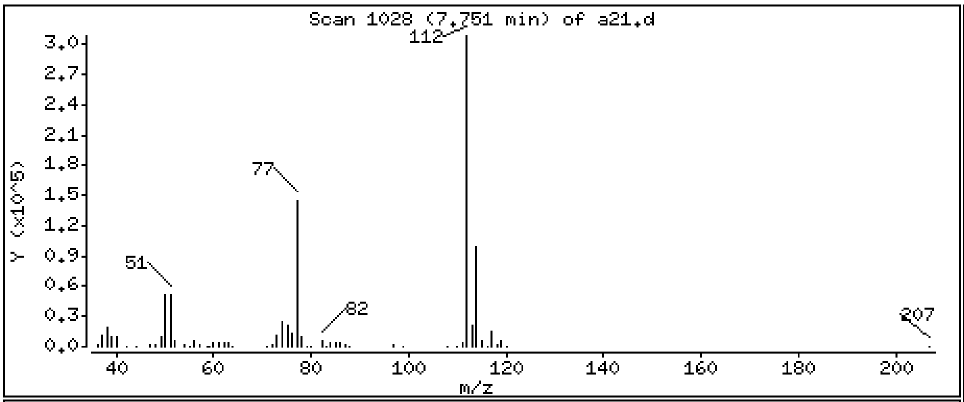
Column phase: DB-624

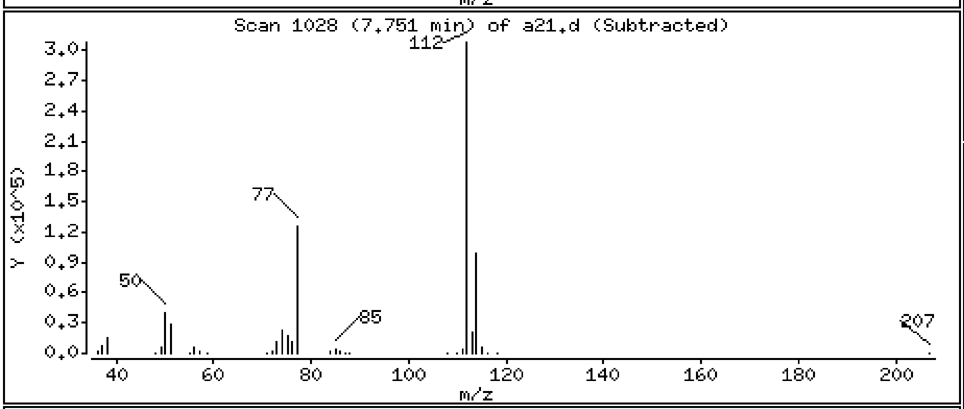
Column diameter: 0.18

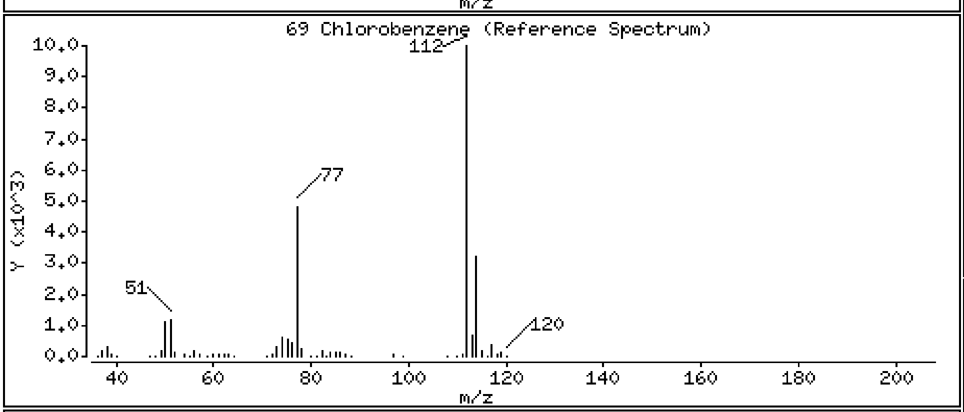
69 Chlorobenzene

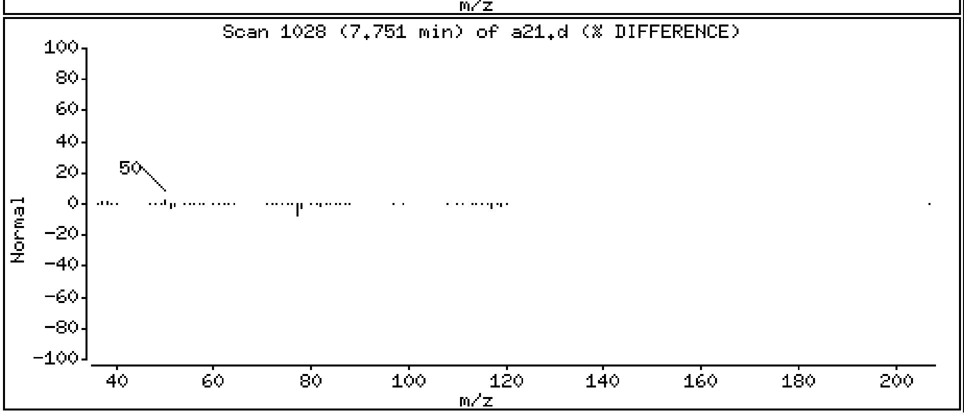
Concentration: 46.6 ppb

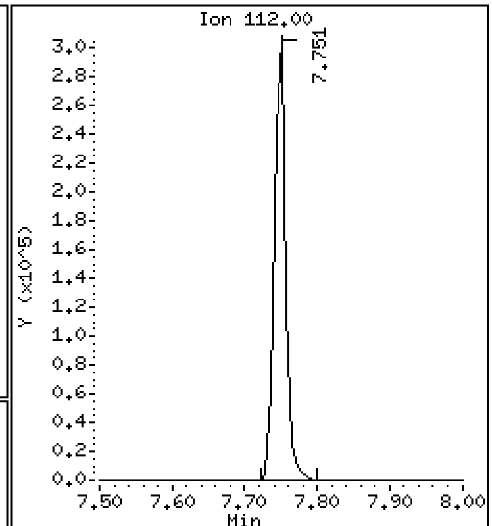
Review Code:

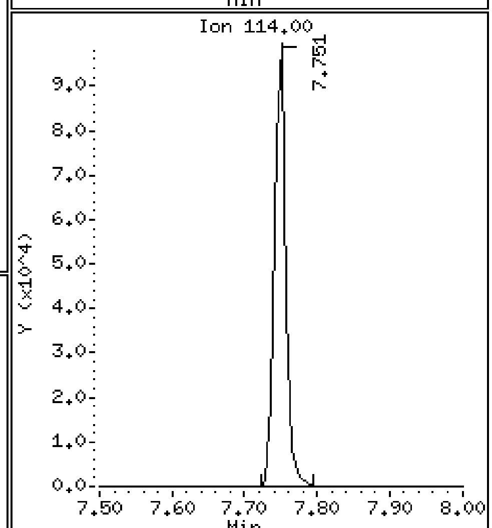


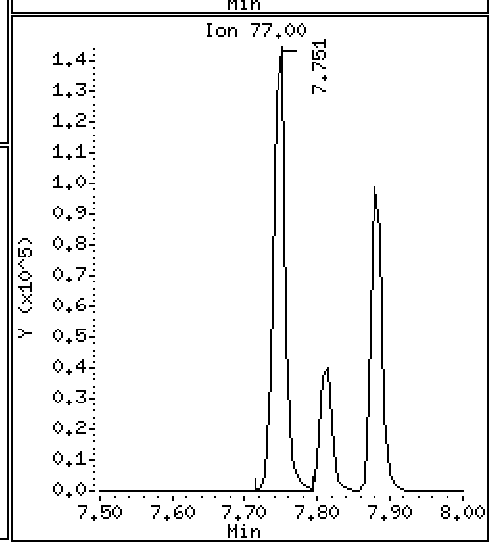












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

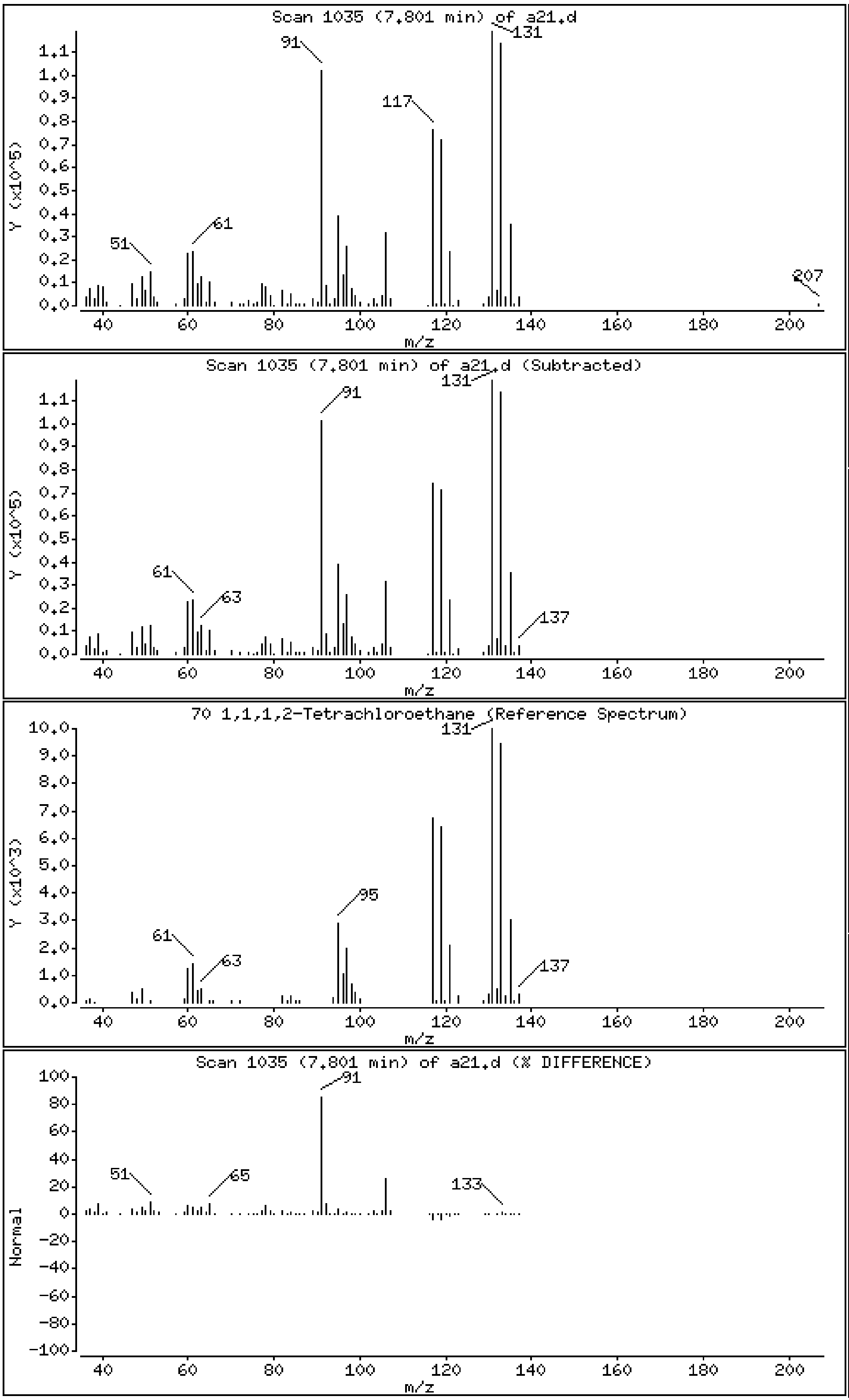
Column phase: DB-624

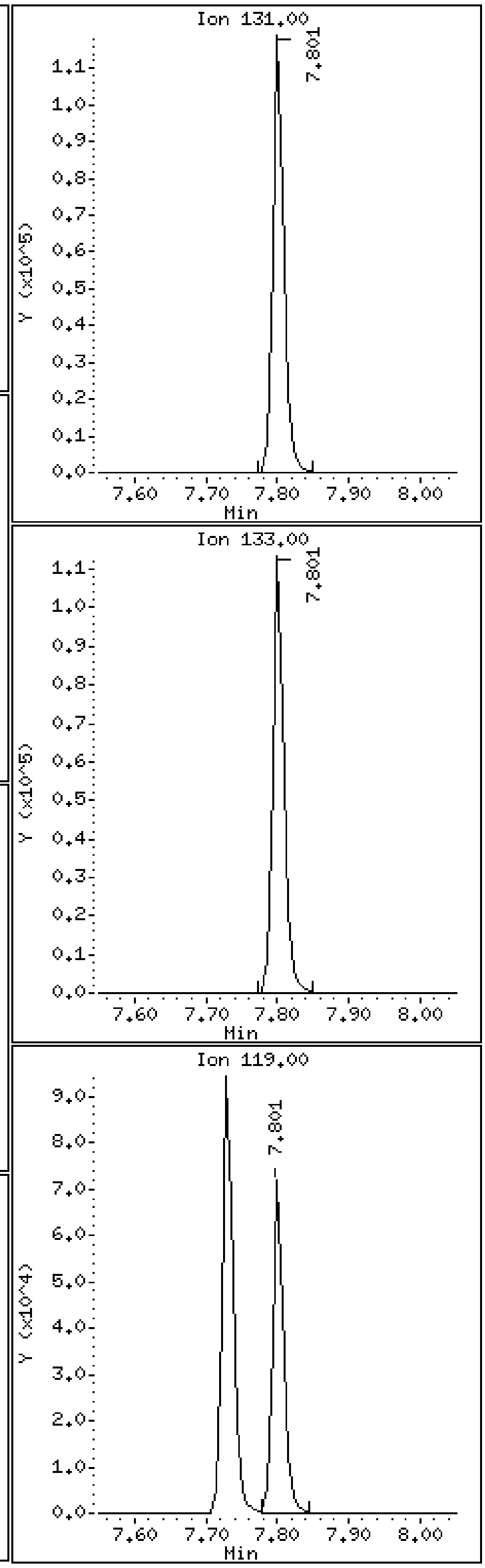
Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane

Concentration: 48.6 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

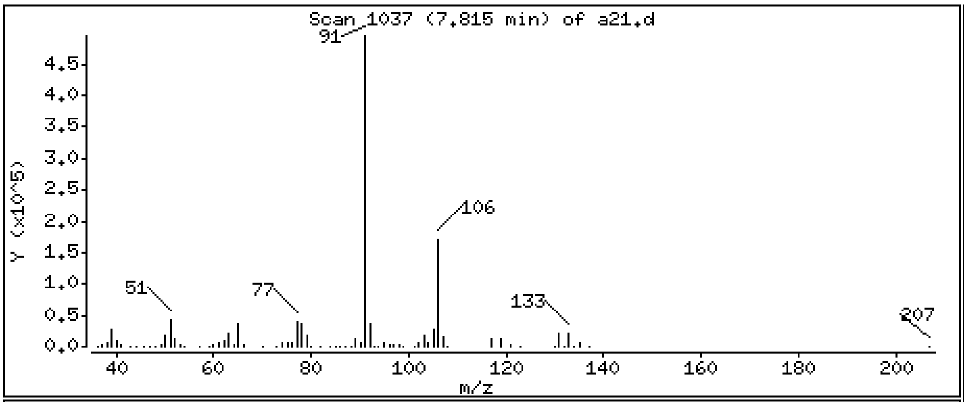
Column phase: DB-624

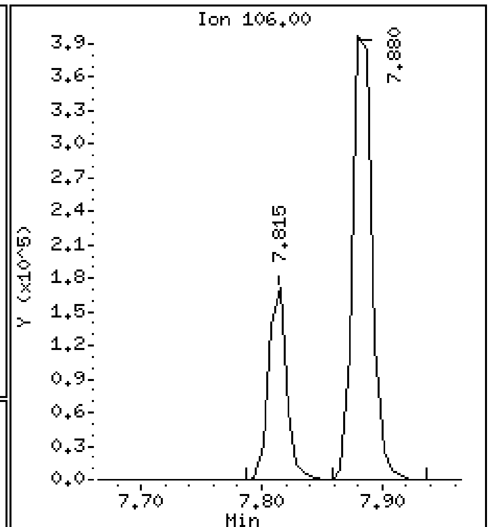
Column diameter: 0.18

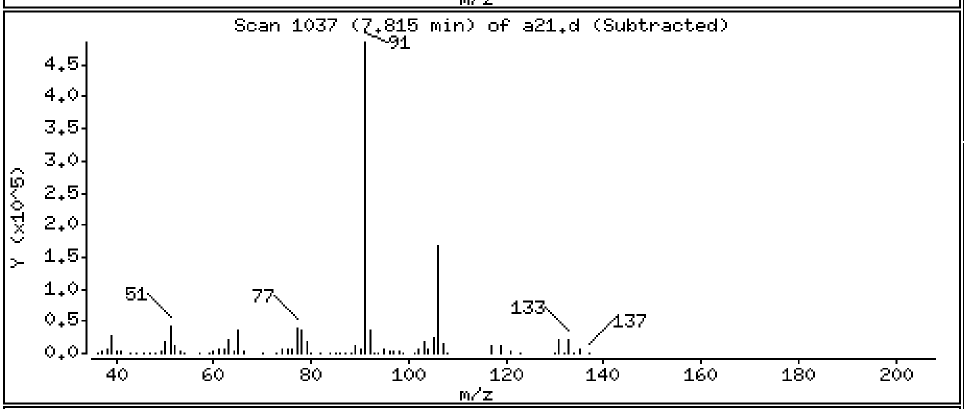
71 Ethylbenzene

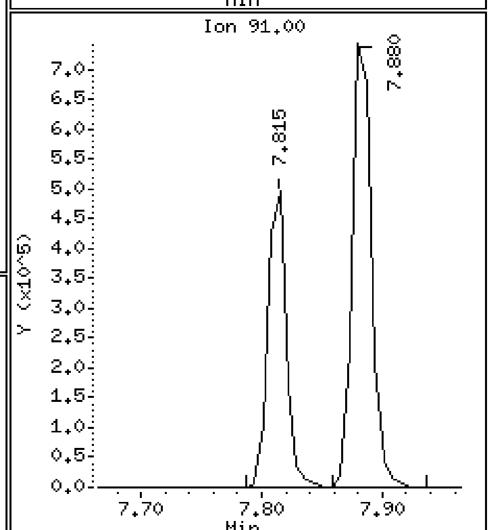
Concentration: 45.8 ppb

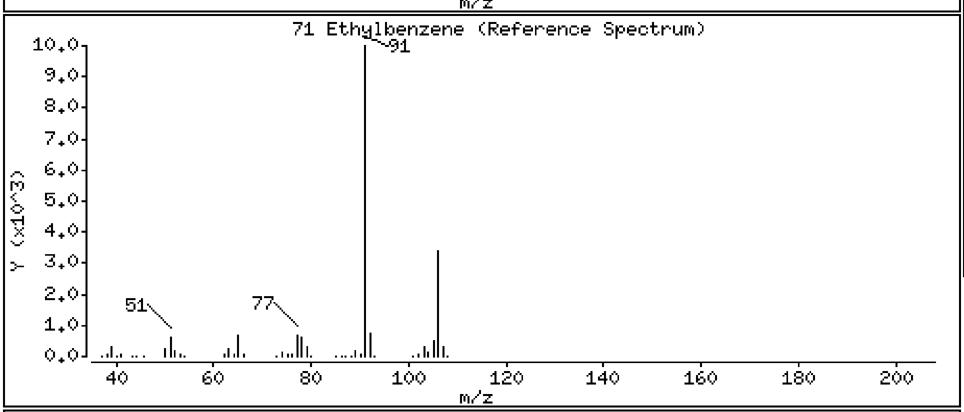
Review Code:

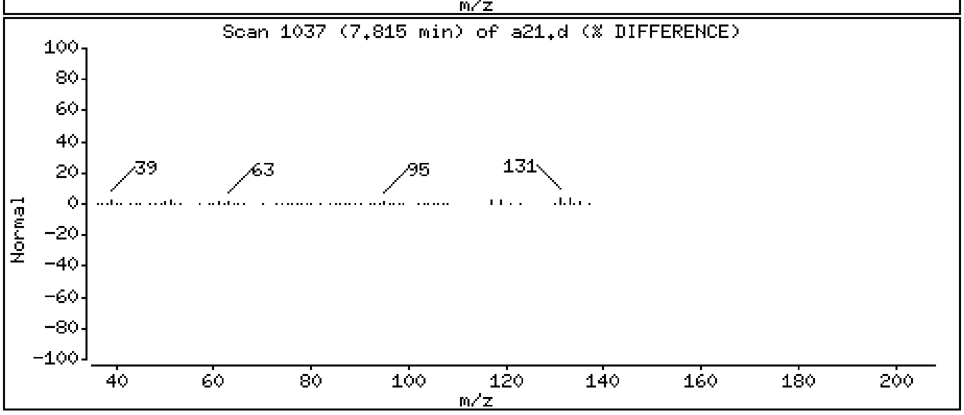












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

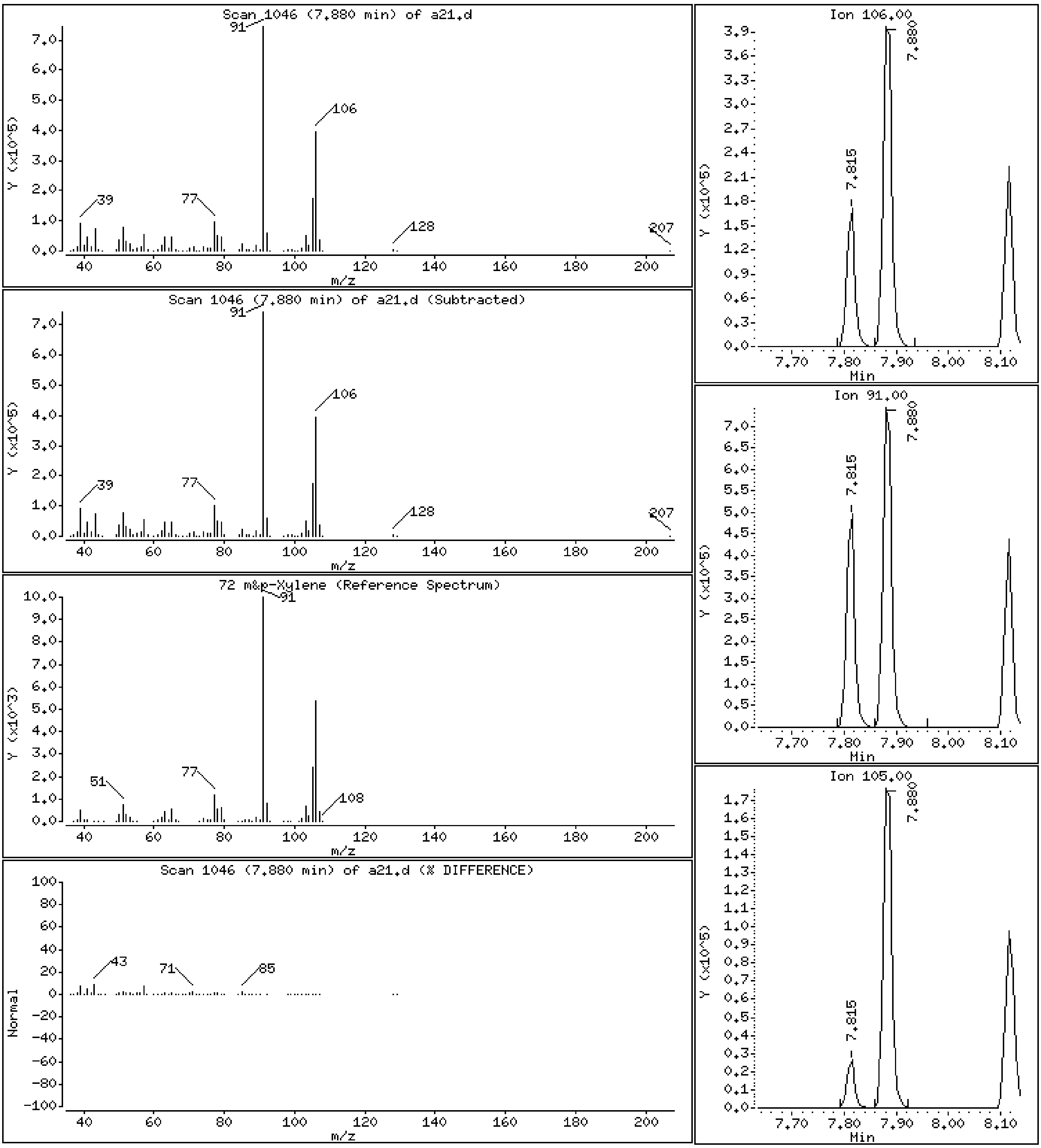
Column phase: DB-624

Column diameter: 0.18

72 m&p-Xylene

Concentration: 93.5 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

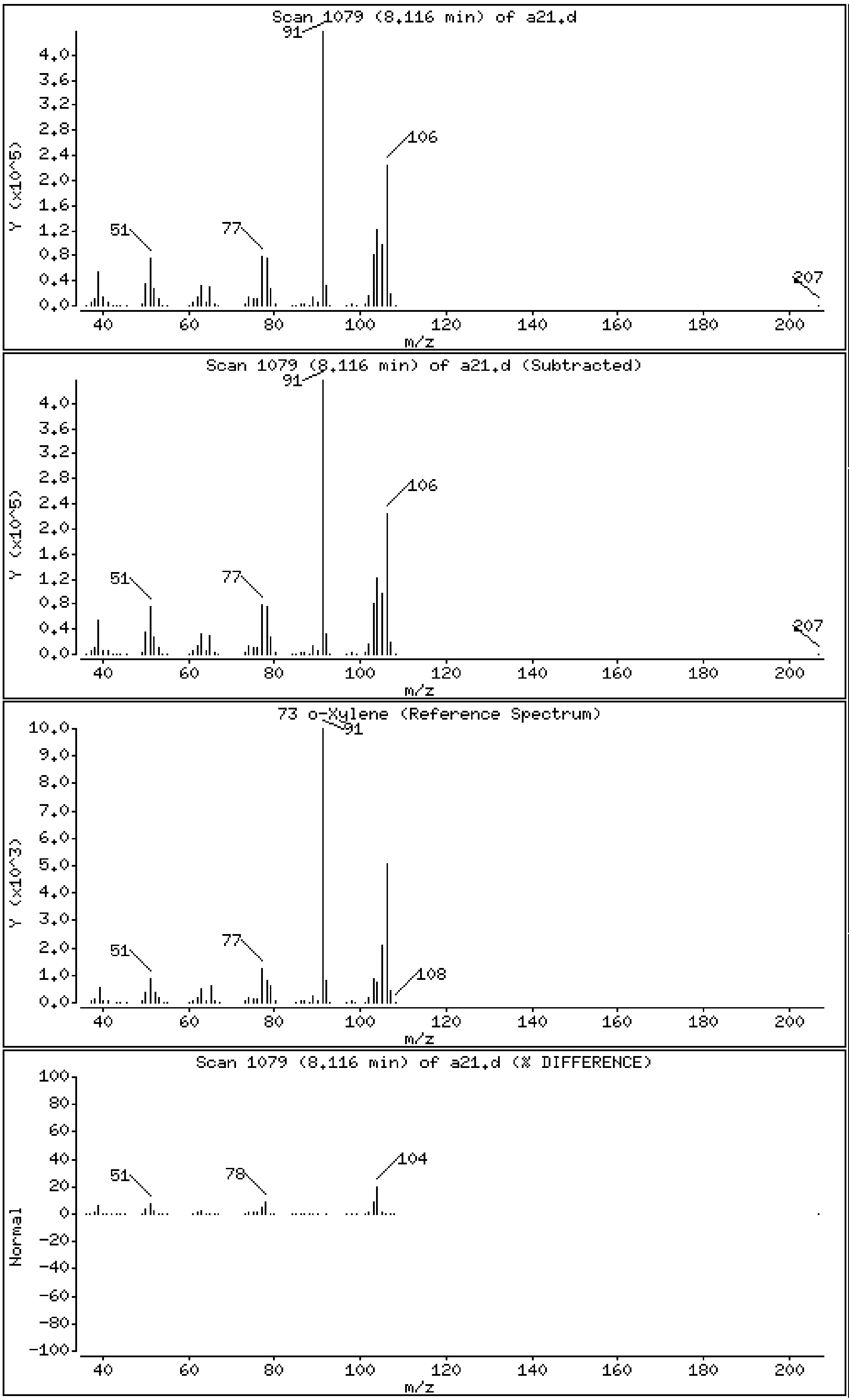
Column phase: DB-624

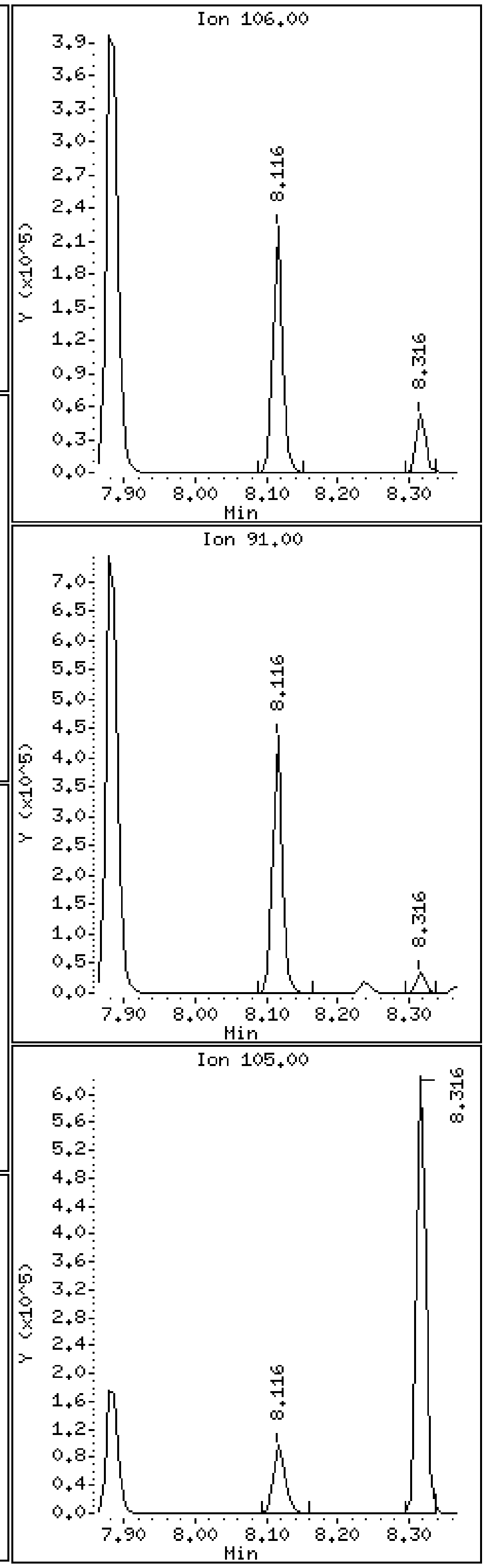
Column diameter: 0.18

73 o-Xylene

Concentration: 45.4 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

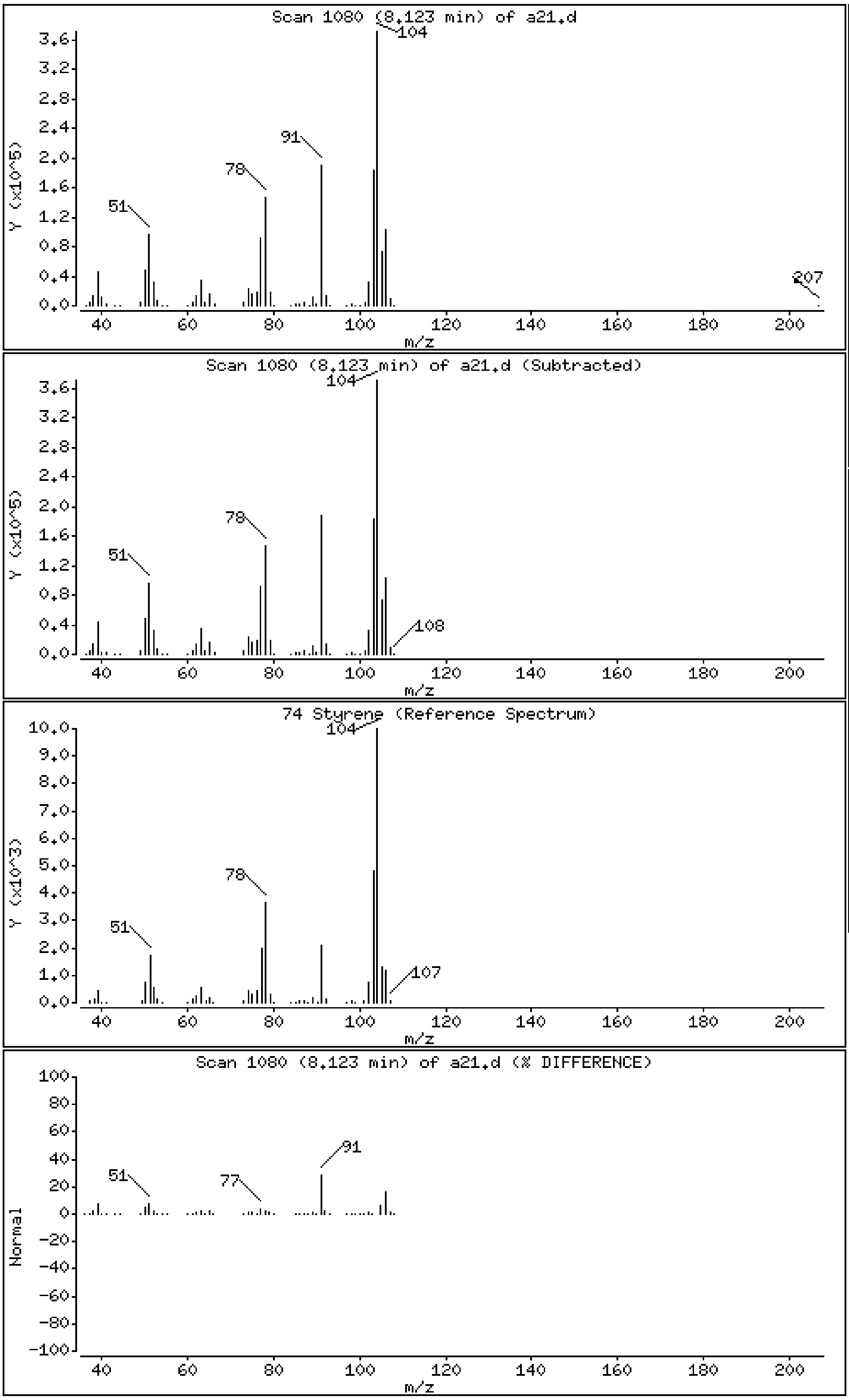
Column phase: DB-624

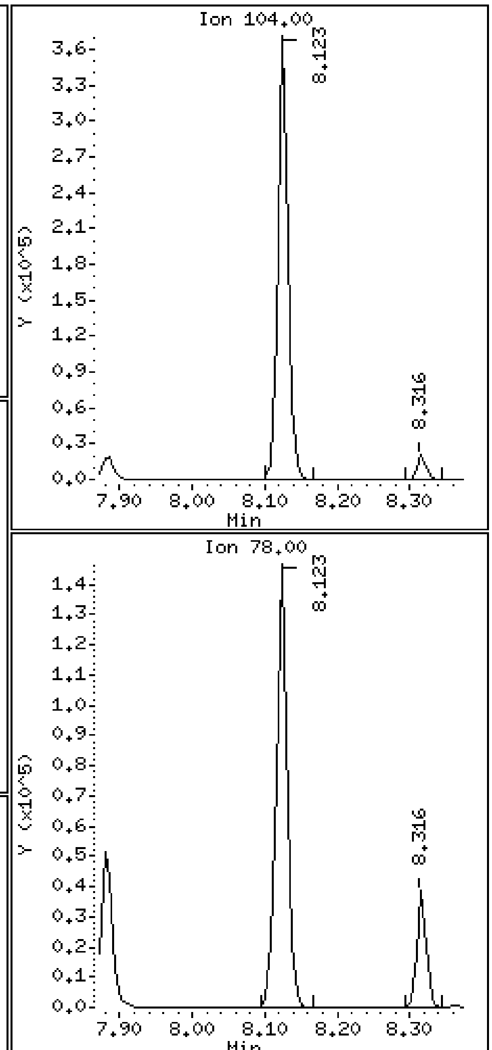
Column diameter: 0.18

74 Styrene

Concentration: 45.4 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

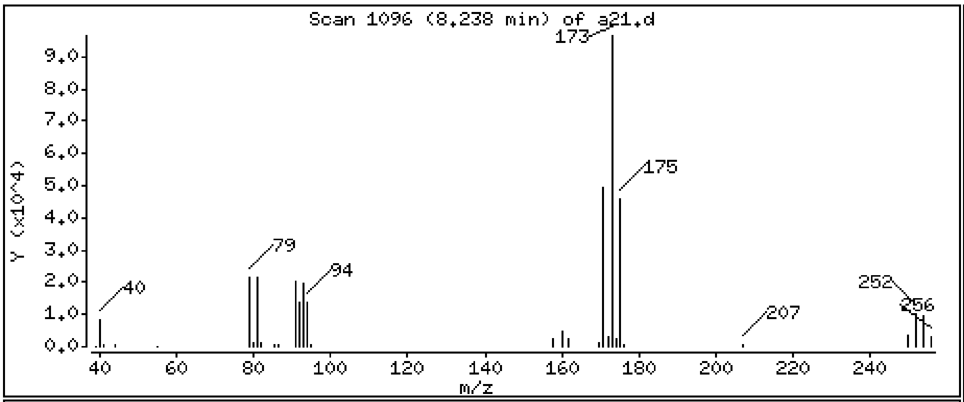
Column phase: DB-624

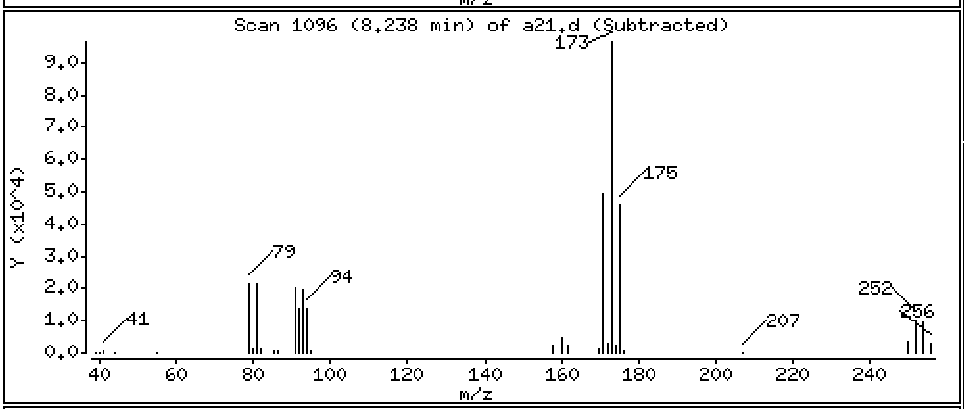
Column diameter: 0.18

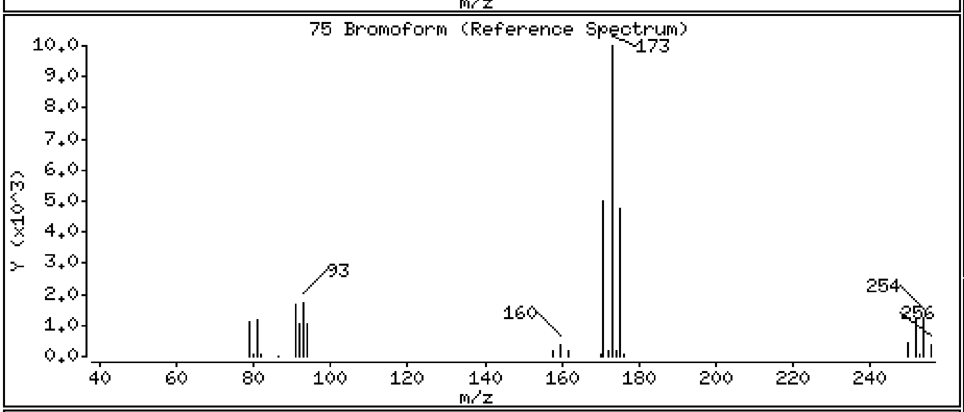
75 Bromoform

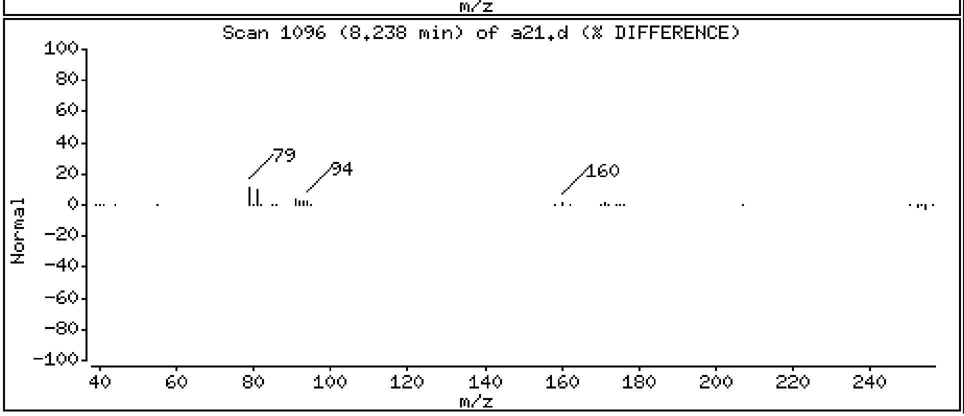
Concentration: 47.4 ppb

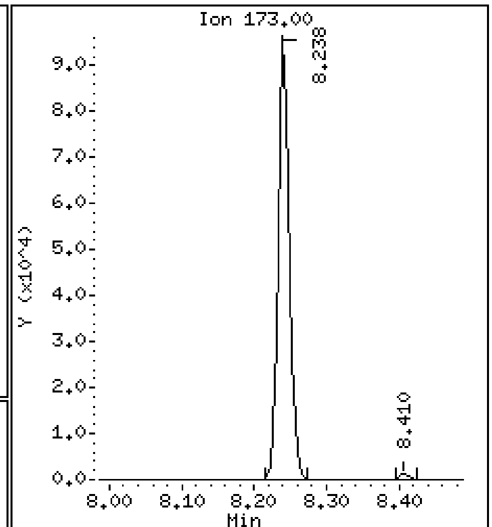
Review Code:

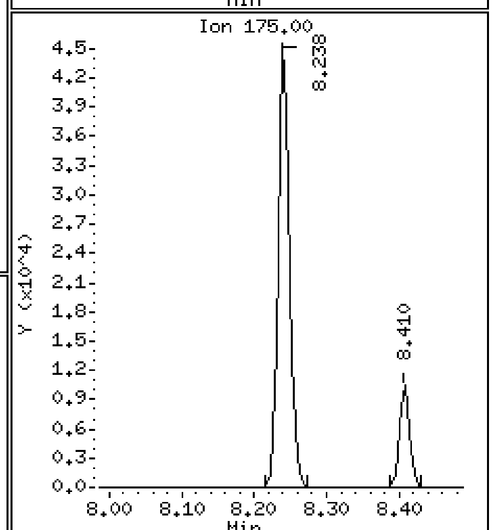


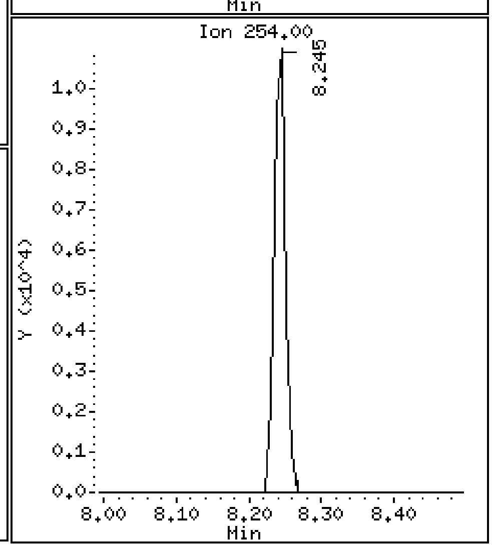












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

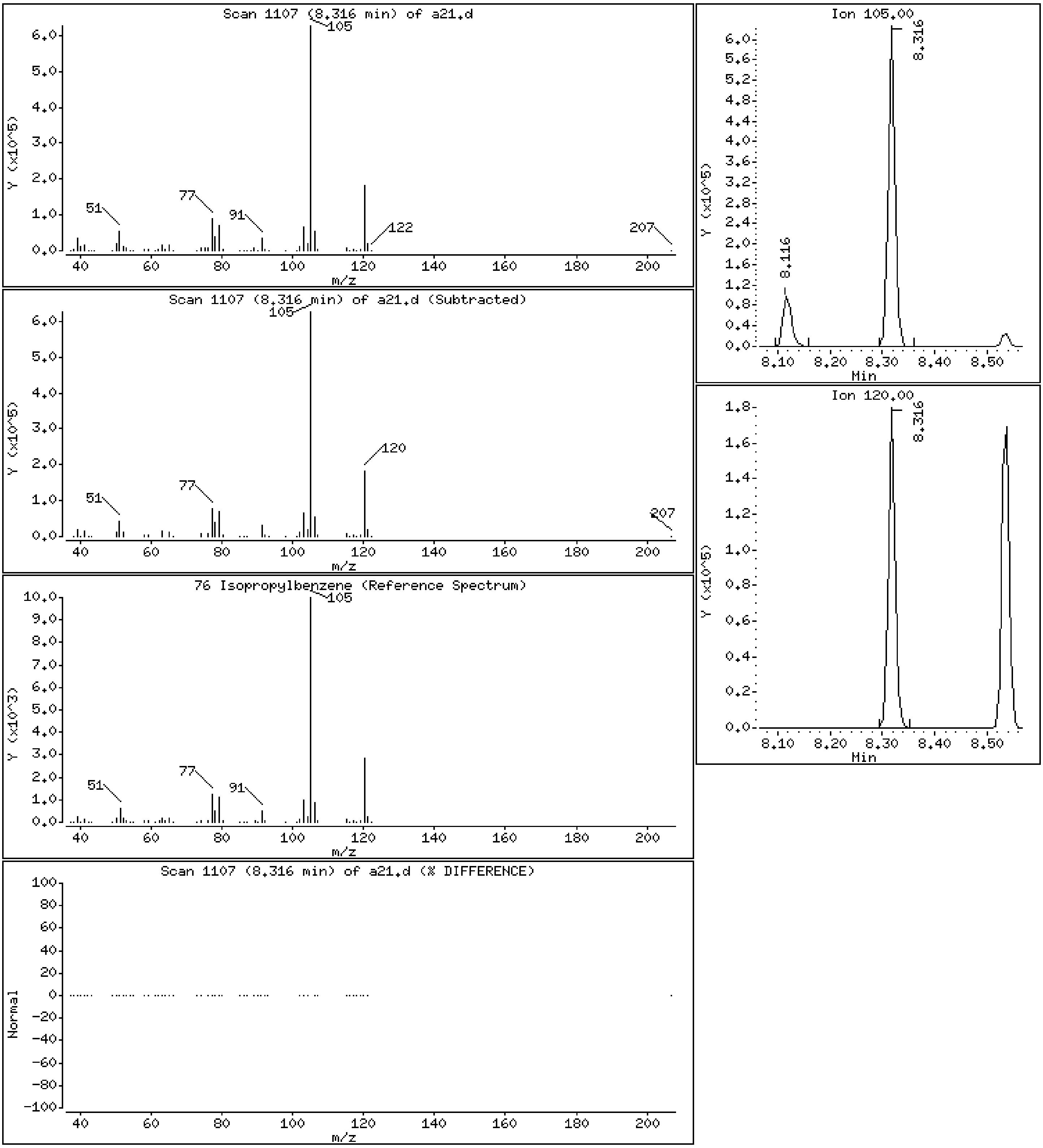
Column phase: DB-624

Column diameter: 0.18

76 Isopropylbenzene

Concentration: 47.2 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

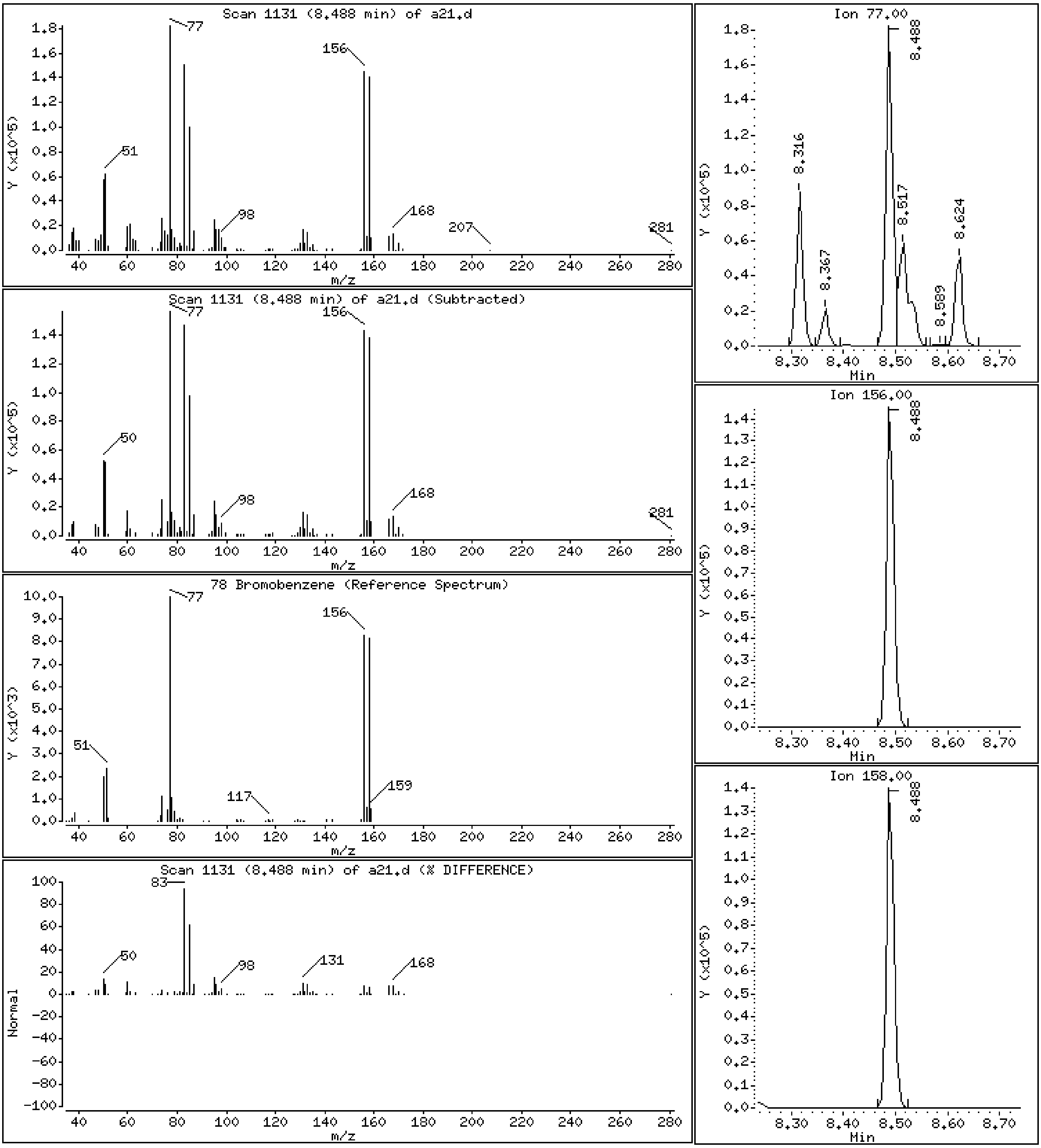
Column phase: DB-624

Column diameter: 0.18

78 Bromobenzene

Concentration: 43.7 ppb

Review Code:



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Date : 23-JAN-2023 19:36

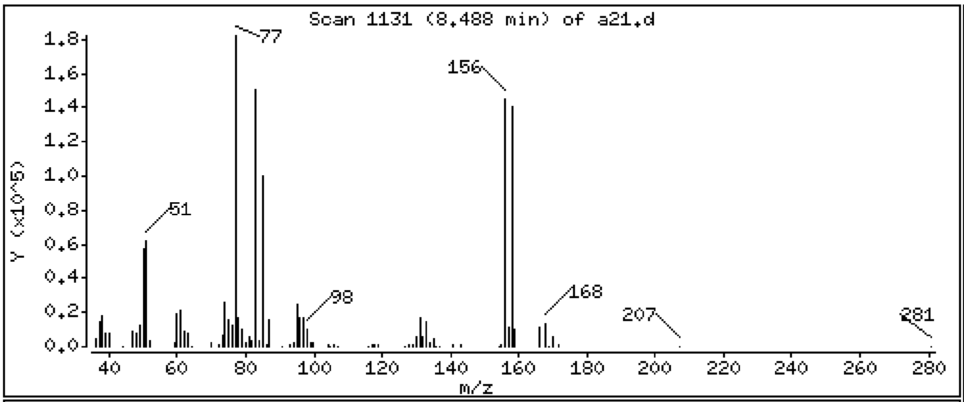
Client ID: LA2268MS Instrument: 50mvda.i

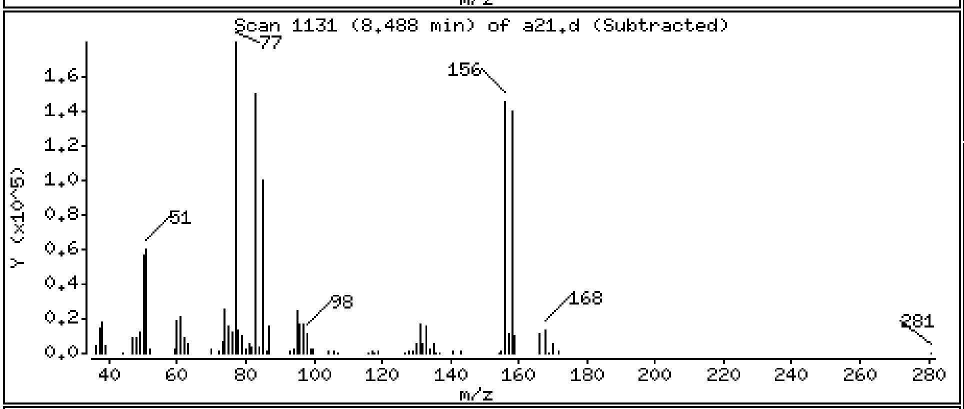
Sample Info: 3287469,336256:5

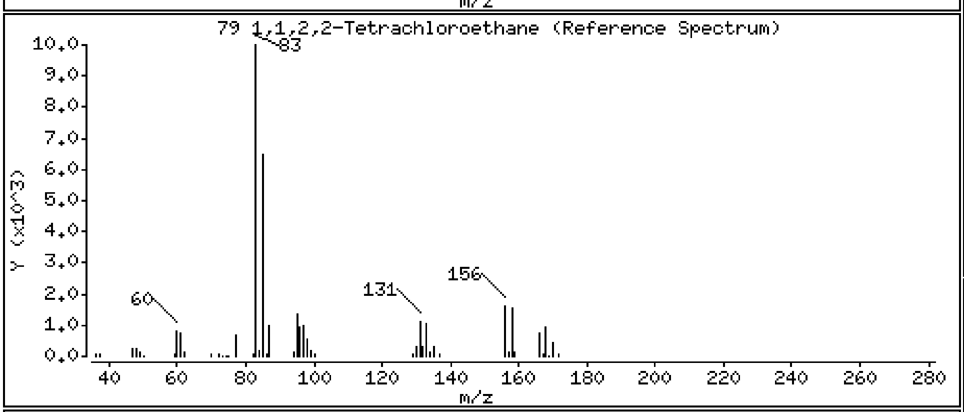
Purge Volume: 5.0 Operator: tkg

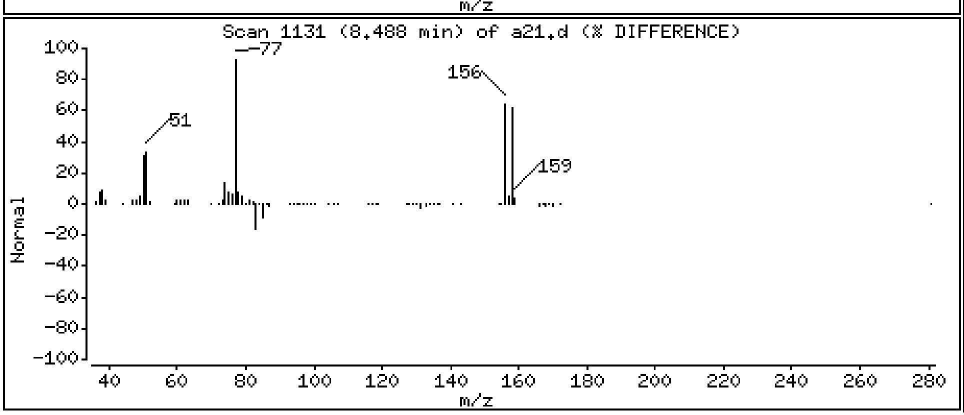
Column phase: DB-624 Column diameter: 0.18

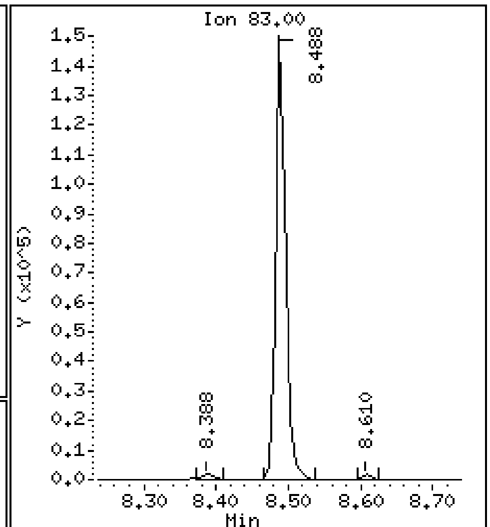
79 1,1,2,2-Tetrachloroethane Concentration: 38.2 ppb Review Code:

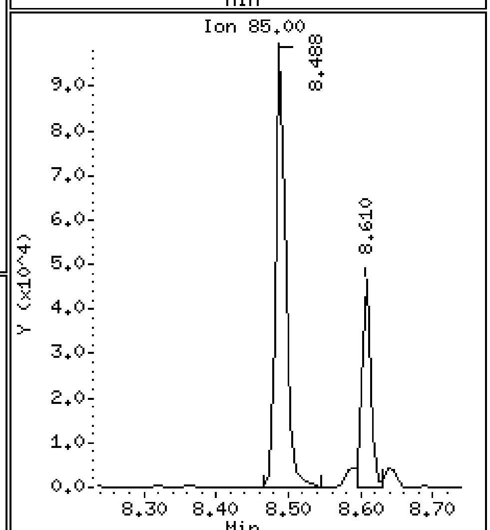


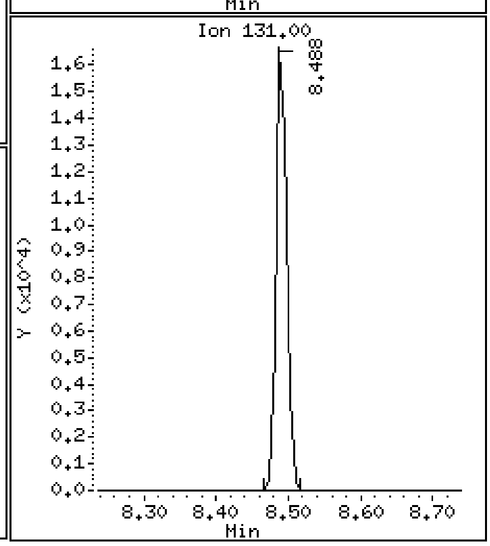












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

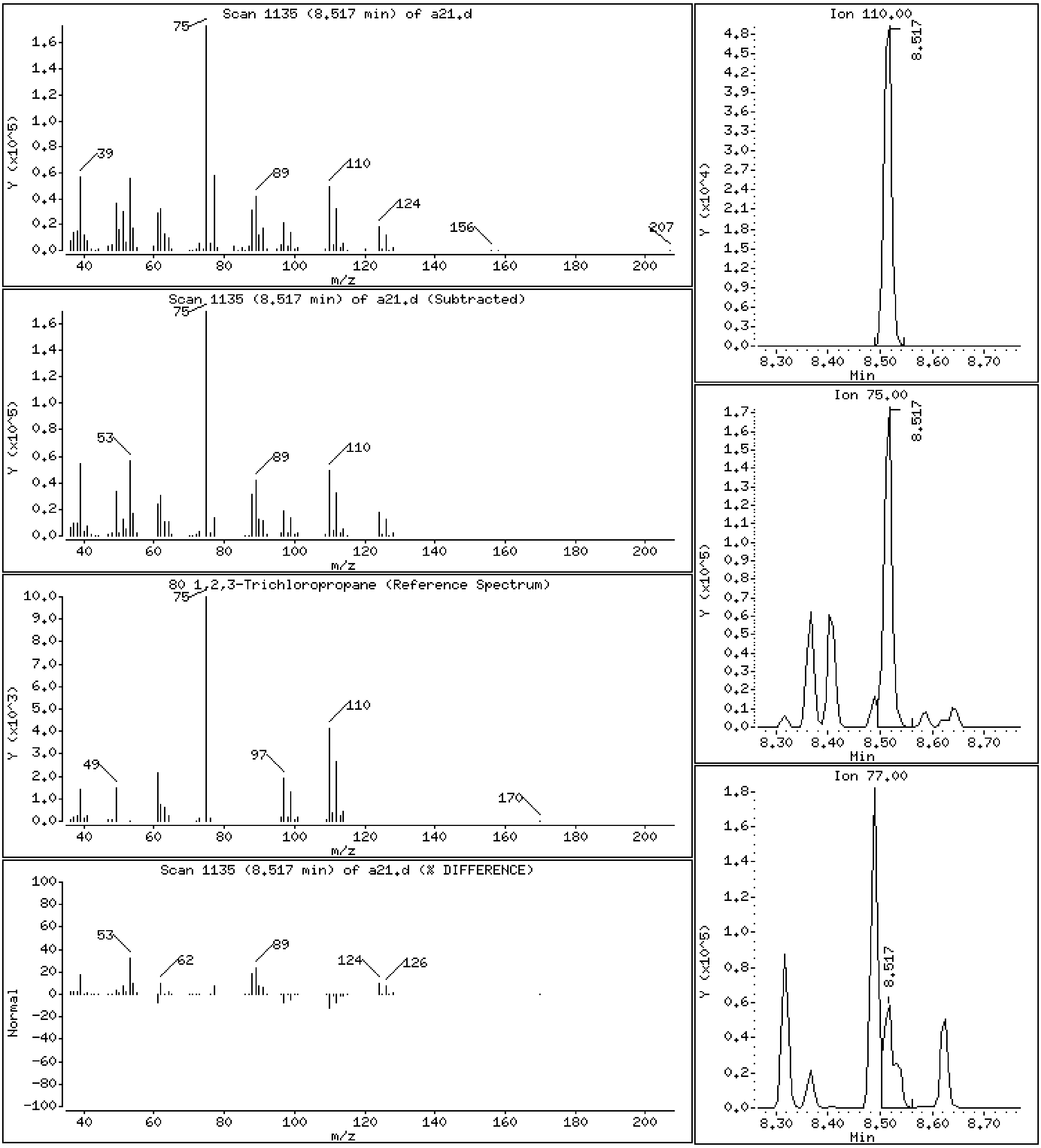
Column phase: DB-624

Column diameter: 0.18

80 1,2,3-Trichloropropane

Concentration: 42.4 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

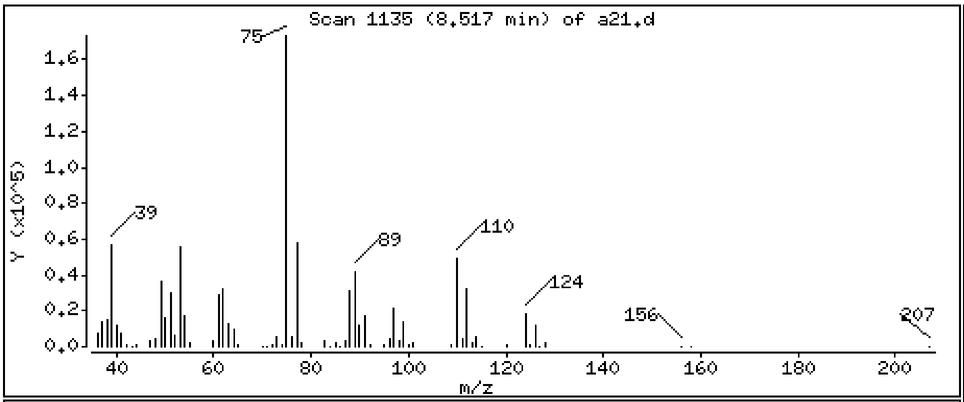
Column phase: DB-624

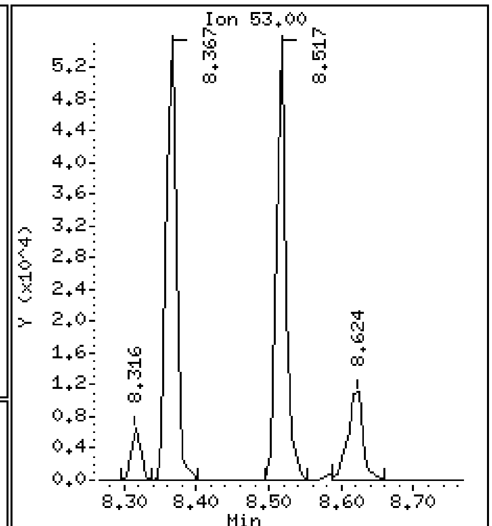
Column diameter: 0.18

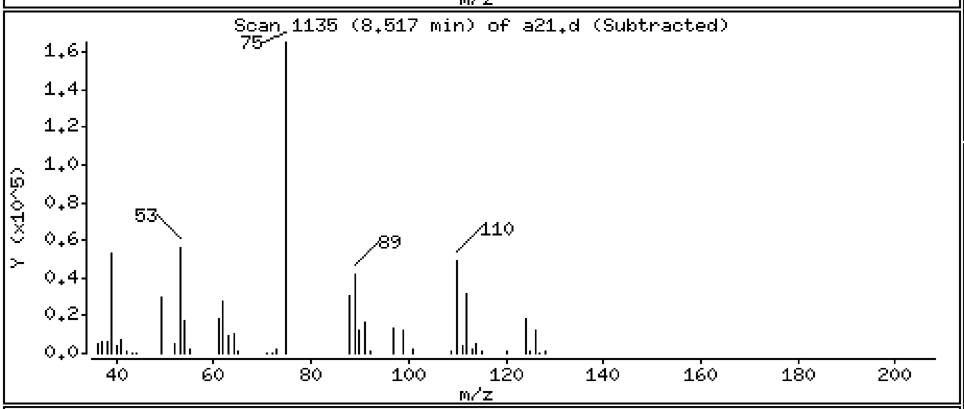
81 trans-1,4-Dichloro-2-butene

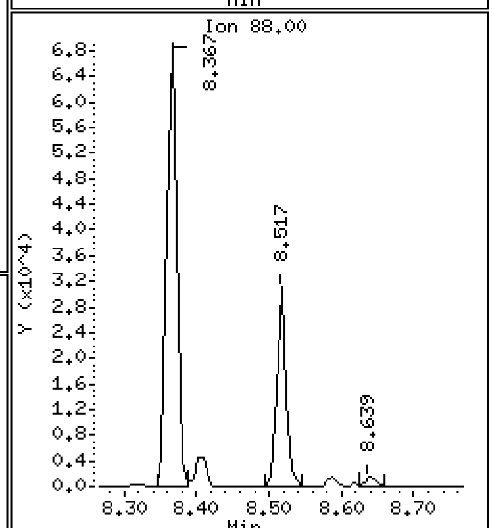
Concentration: 40.3 ppb

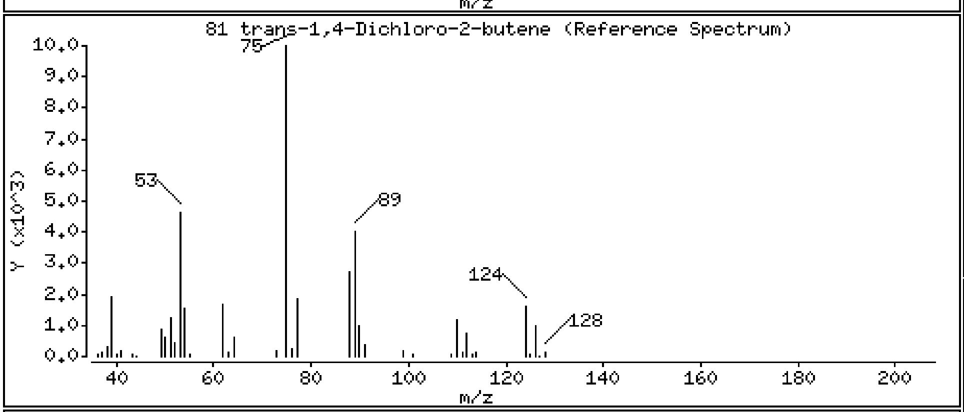
Review Code:

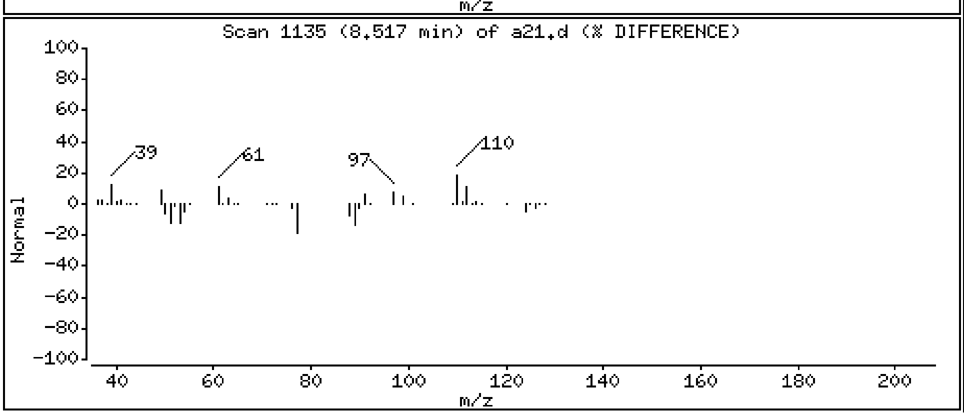


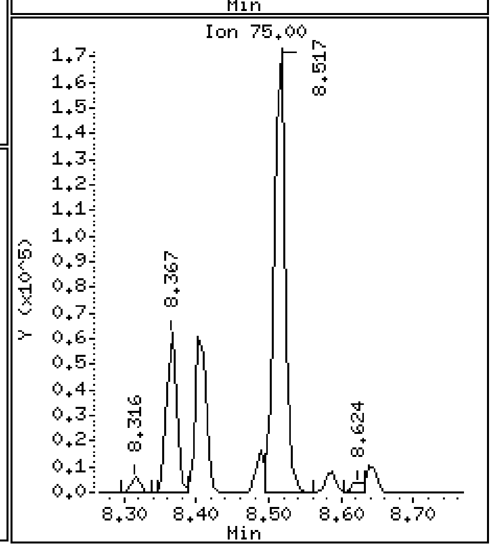












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

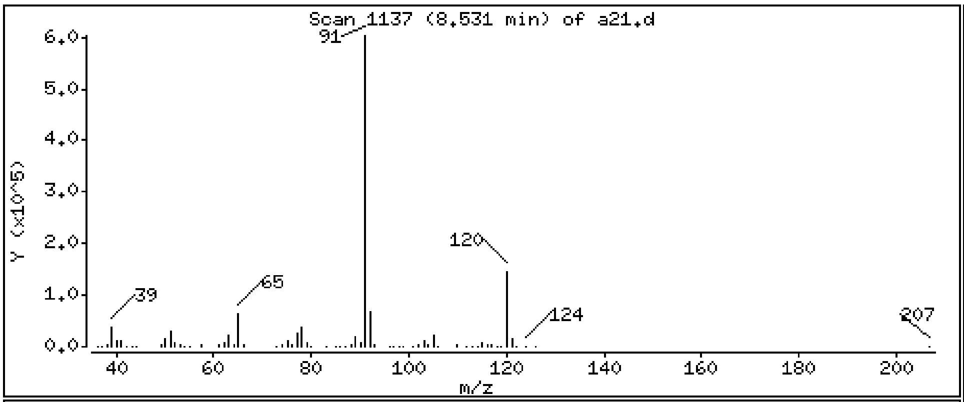
Column phase: DB-624

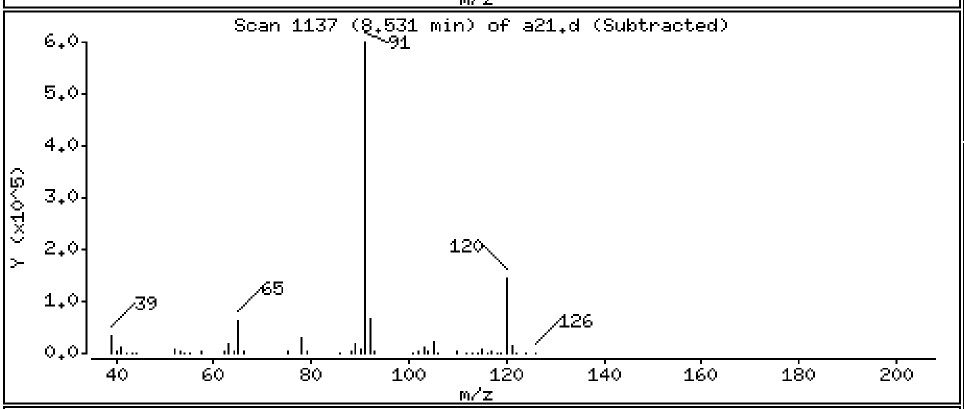
Column diameter: 0.18

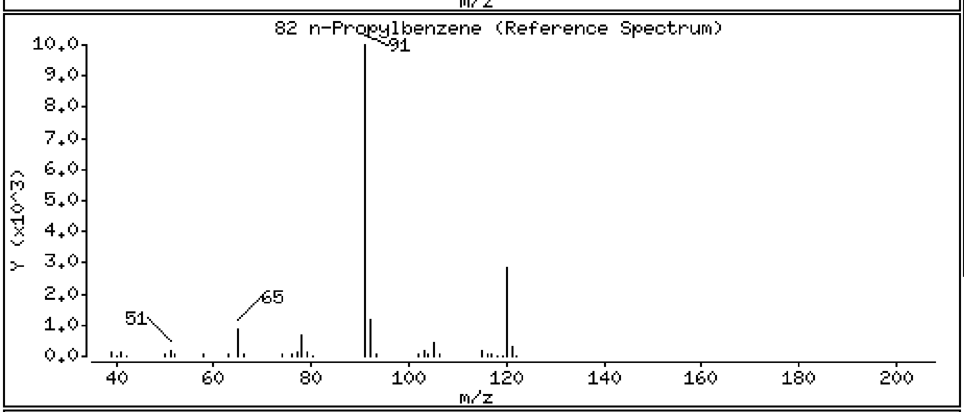
82 n-Propylbenzene

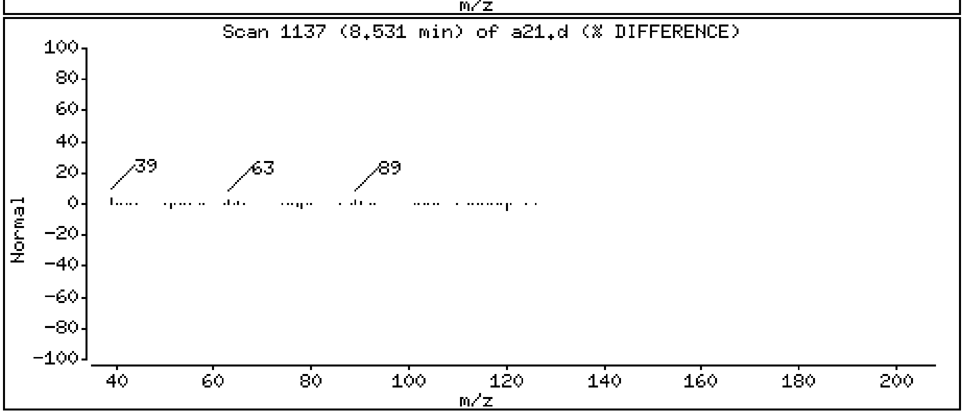
Concentration: 40.5 ppb

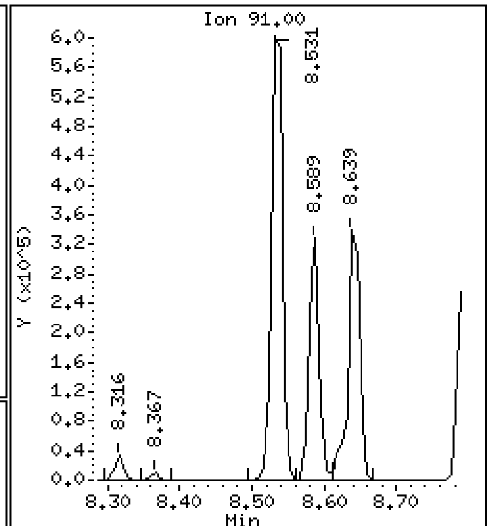
Review Code:

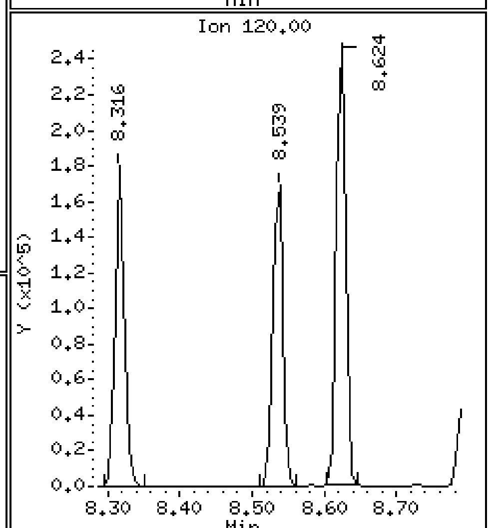












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Date : 23-JAN-2023 19:36

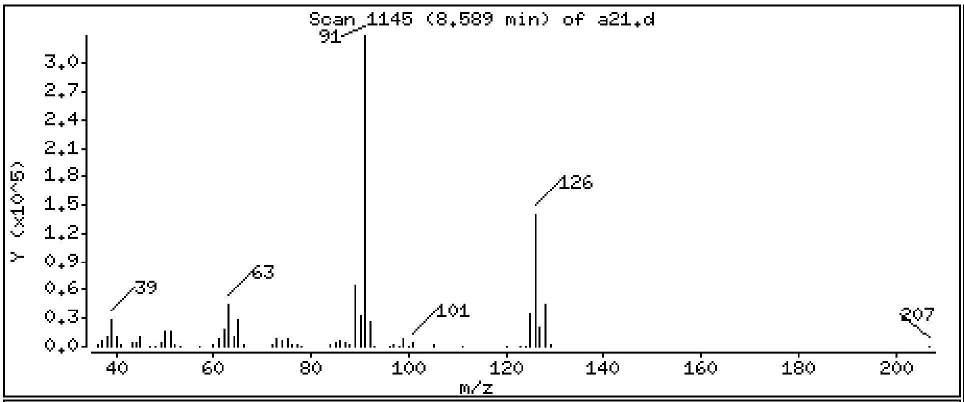
Client ID: LA2268MS Instrument: 50mvda.i

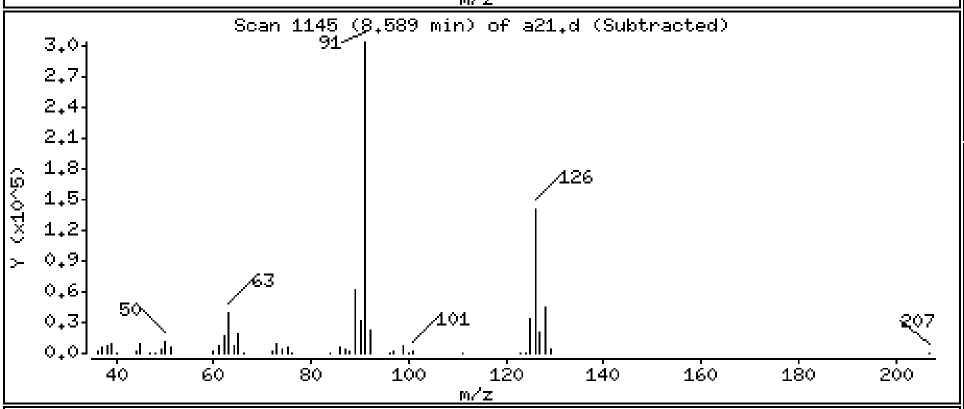
Sample Info: 3287469,336256:5

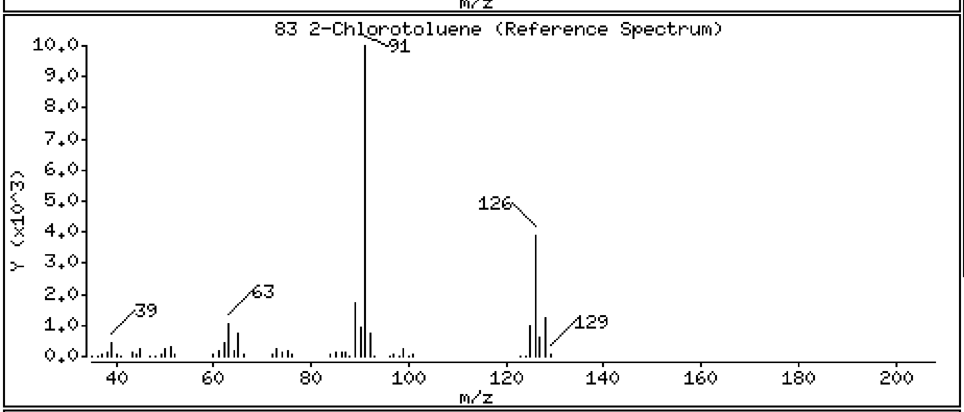
Purge Volume: 5.0 Operator: tkg

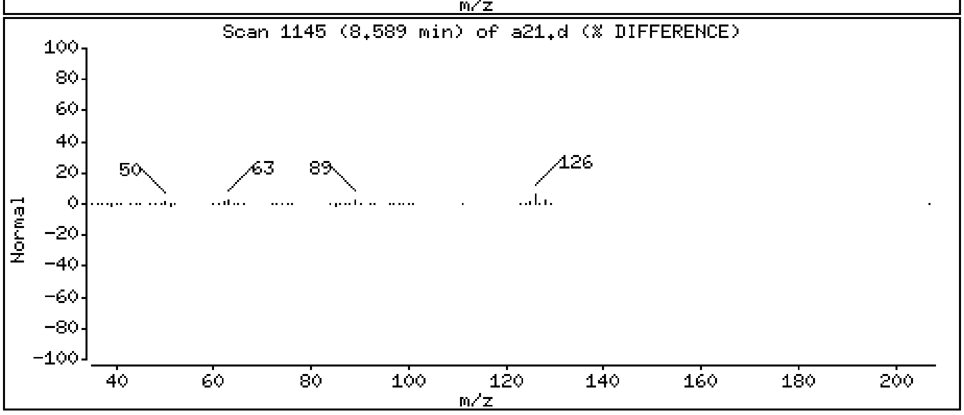
Column phase: DB-624 Column diameter: 0.18

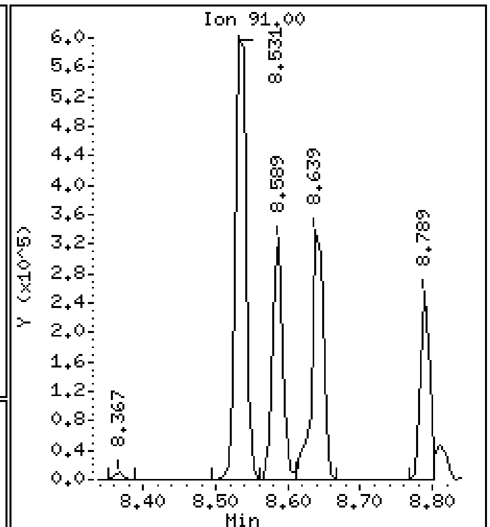
83 2-Chlorotoluene Concentration: 40.2 ppb Review Code:

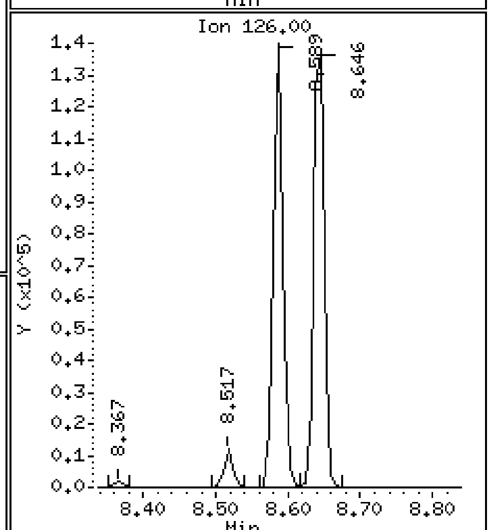












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

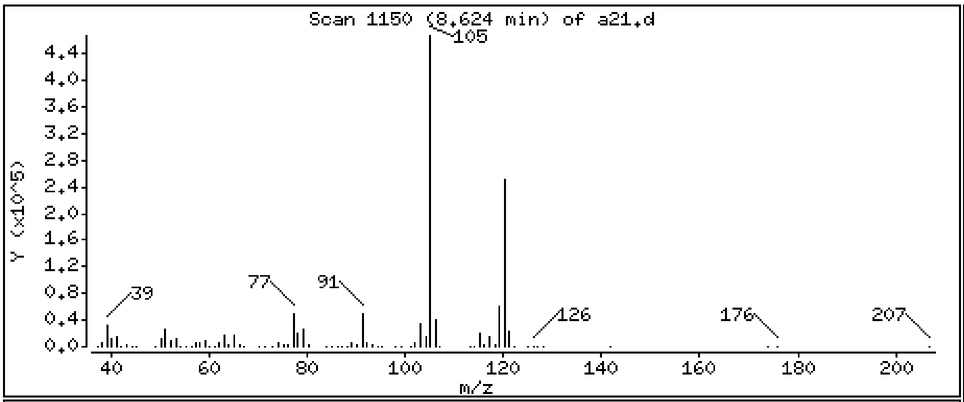
Column phase: DB-624

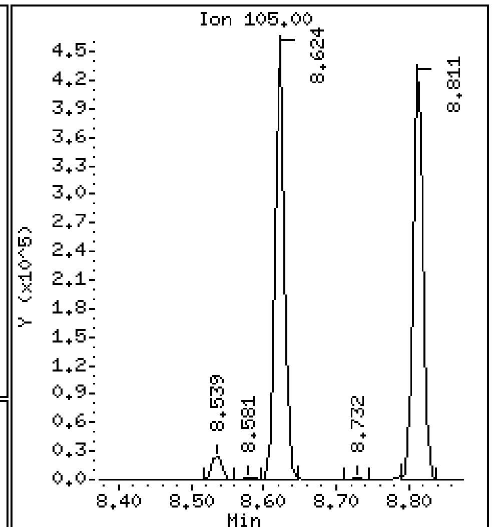
Column diameter: 0.18

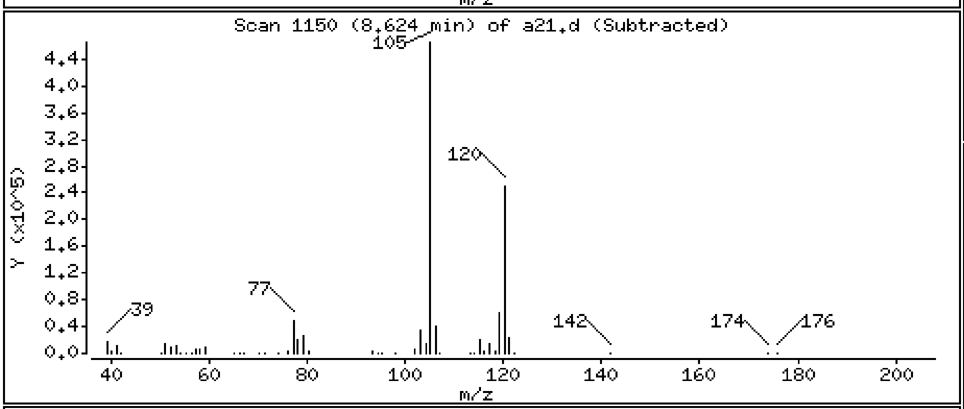
84 1,3,5-Trimethylbenzene

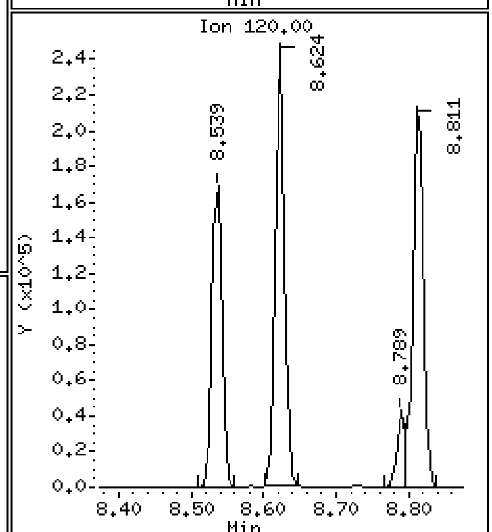
Concentration: 41.8 ppb

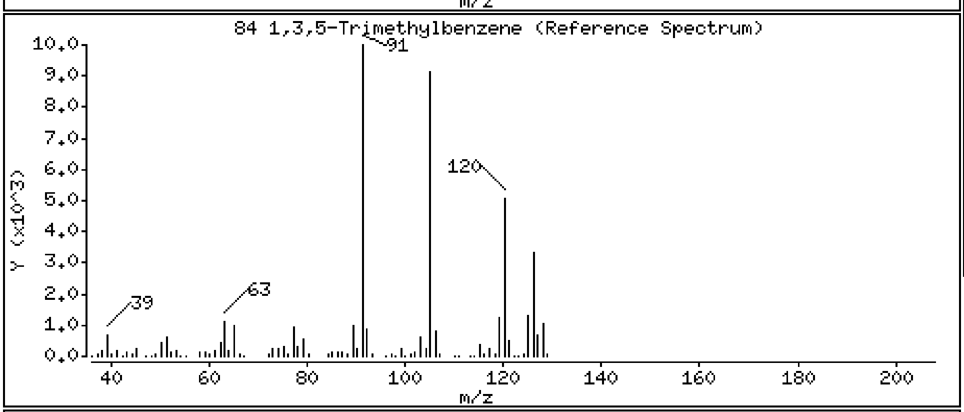
Review Code:

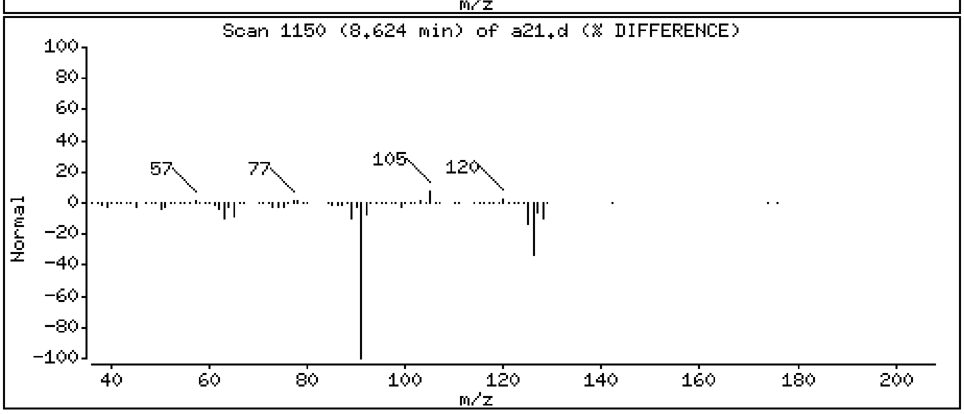












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

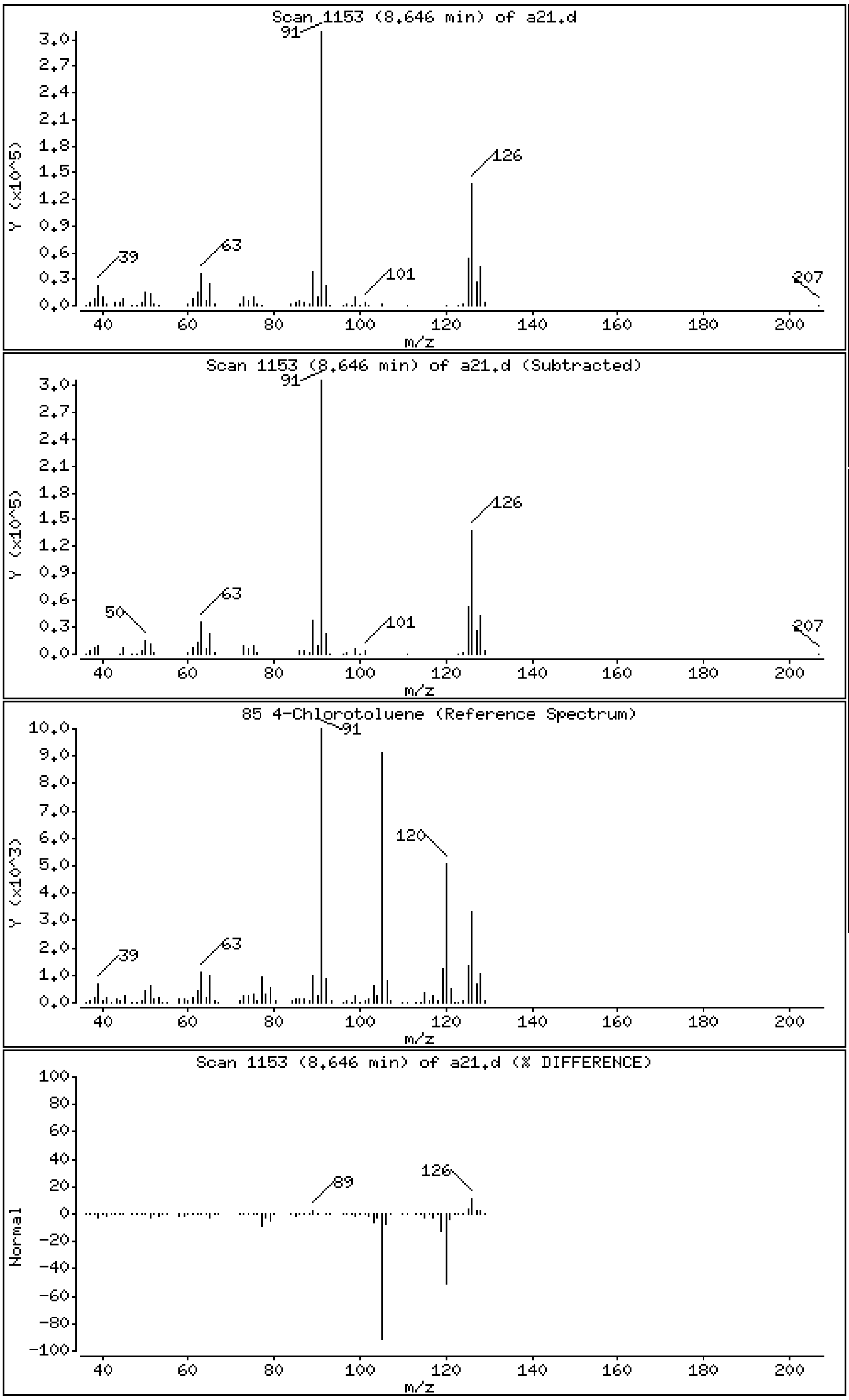
Column phase: DB-624

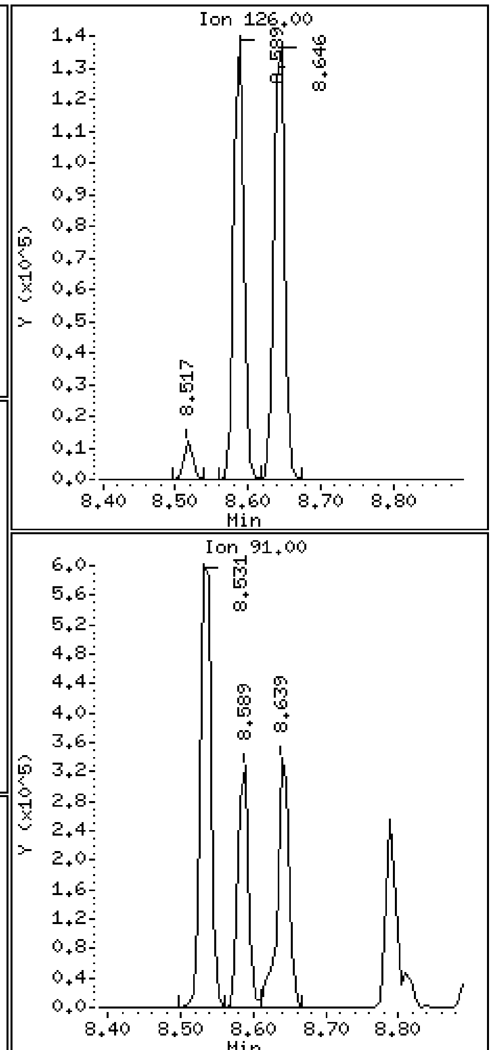
Column diameter: 0.18

85 4-Chlorotoluene

Concentration: 44.9 ppb

Review Code:





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Date : 23-JAN-2023 19:36

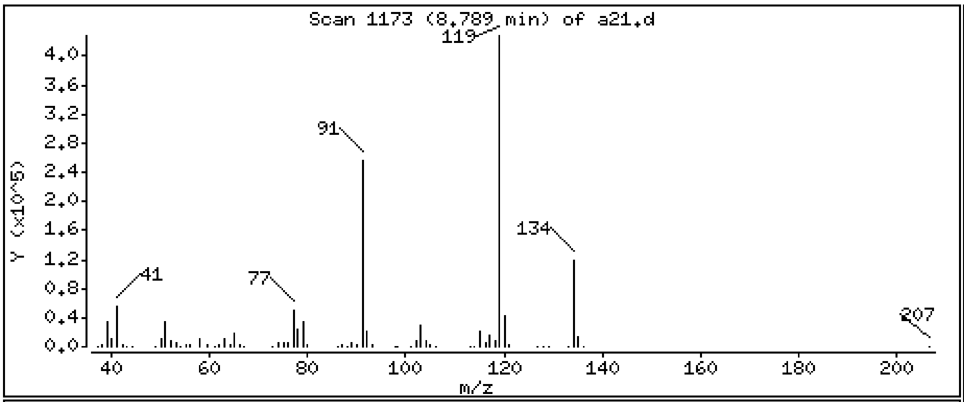
Client ID: LA2268MS Instrument: 50mvda.i

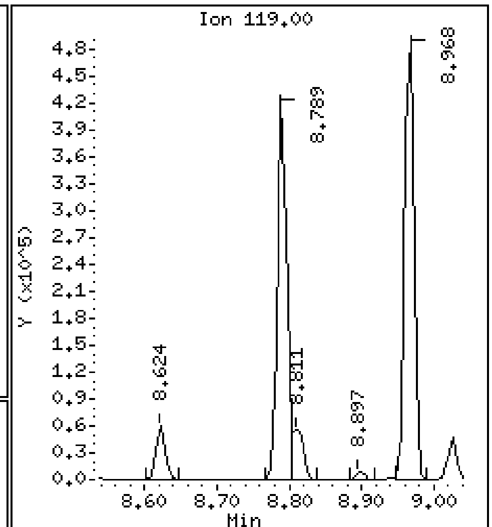
Sample Info: 3287469,336256:5

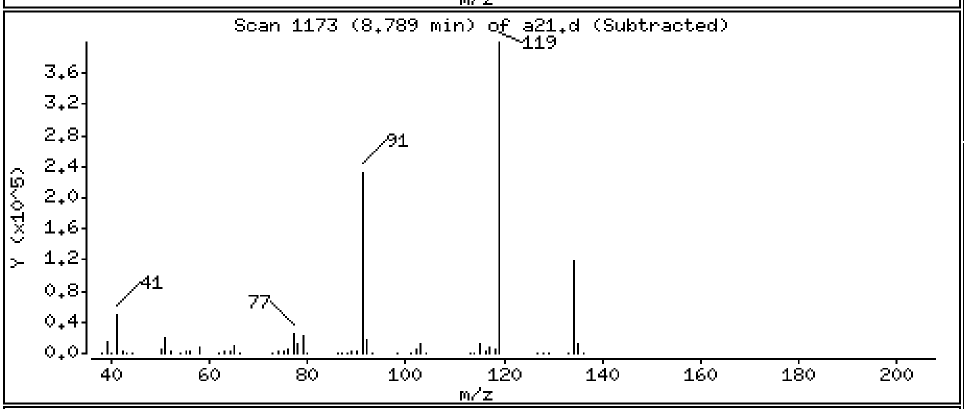
Purge Volume: 5.0 Operator: tkg

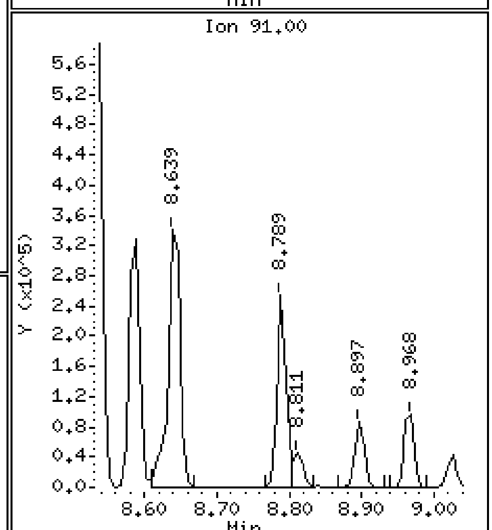
Column phase: DB-624 Column diameter: 0.18

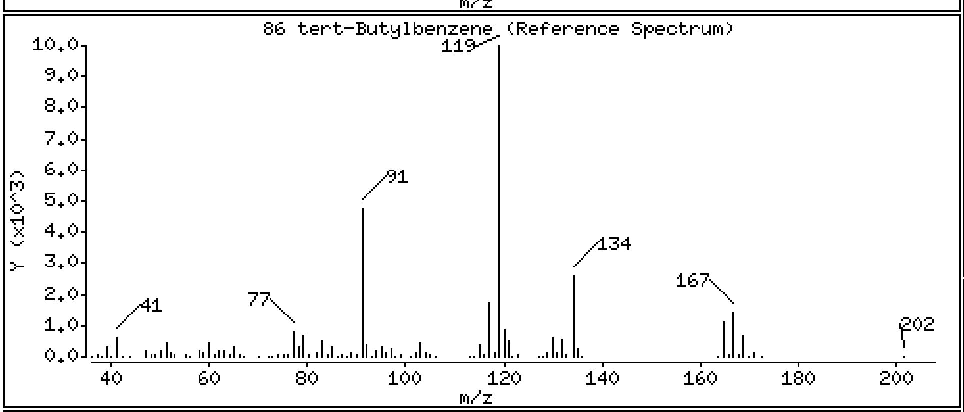
86 tert-Butylbenzene Concentration: 39.0 ppb Review Code:

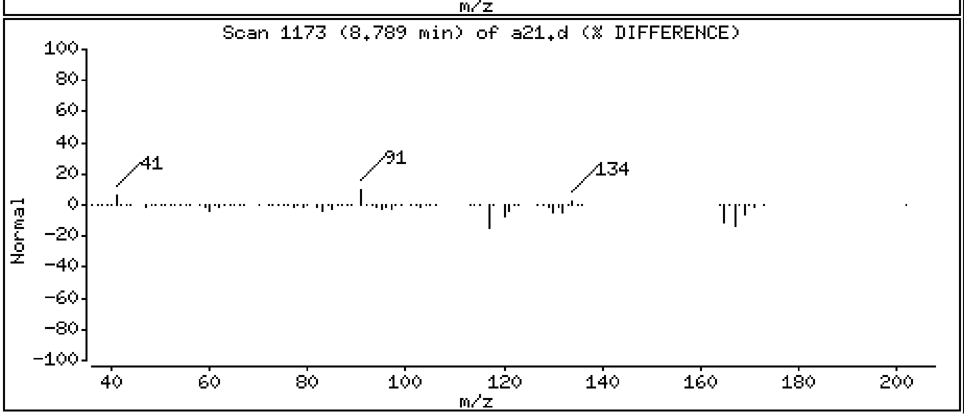


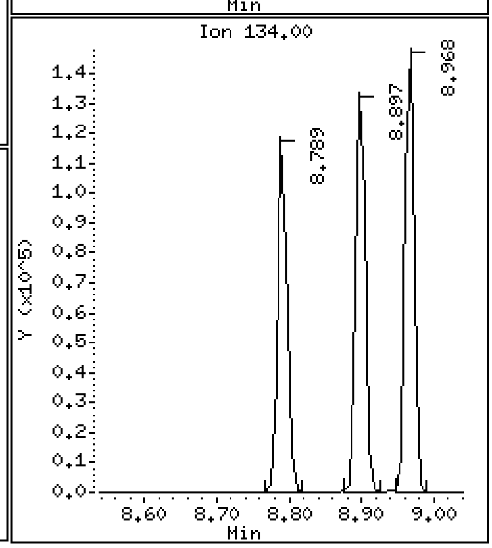












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

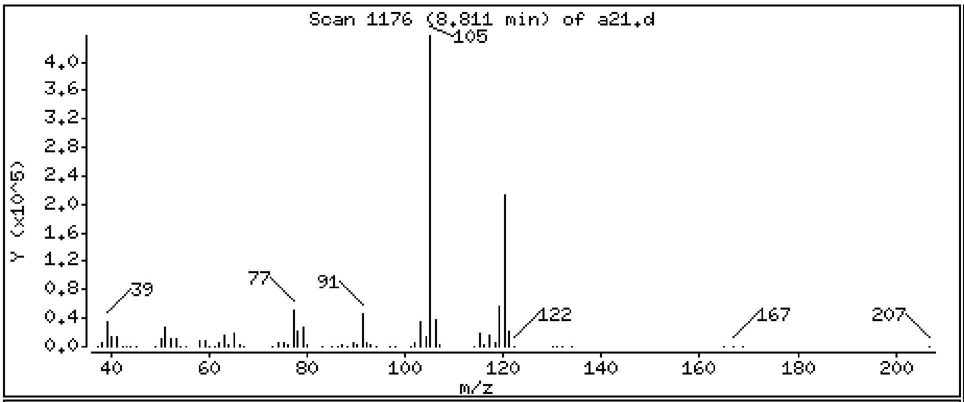
Column phase: DB-624

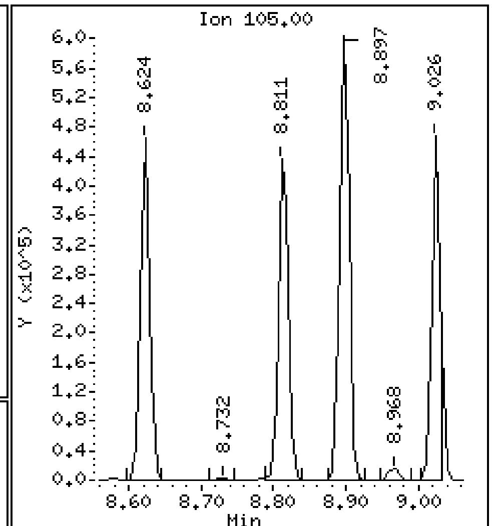
Column diameter: 0.18

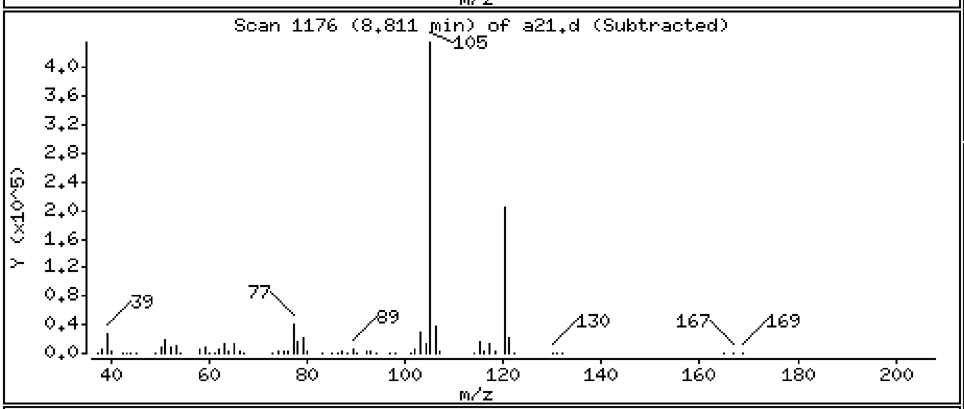
87 1,2,4-Trimethylbenzene

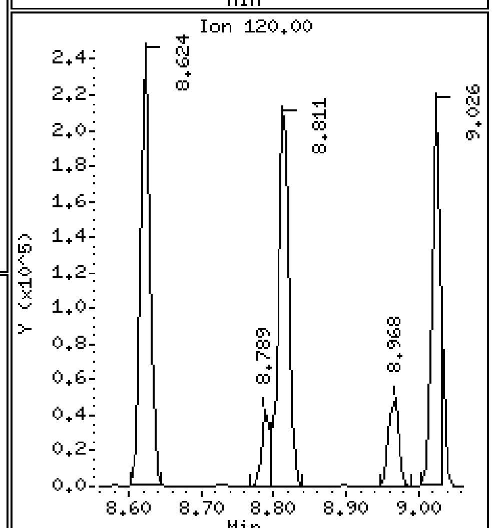
Concentration: 41.5 ppb

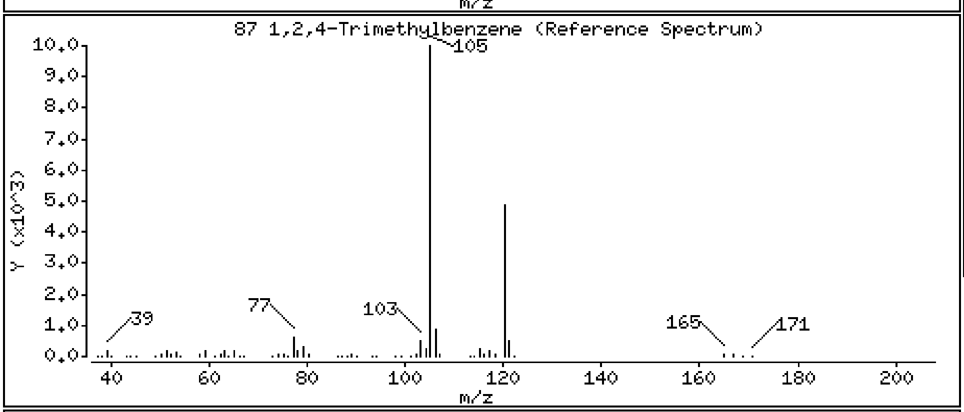
Review Code:

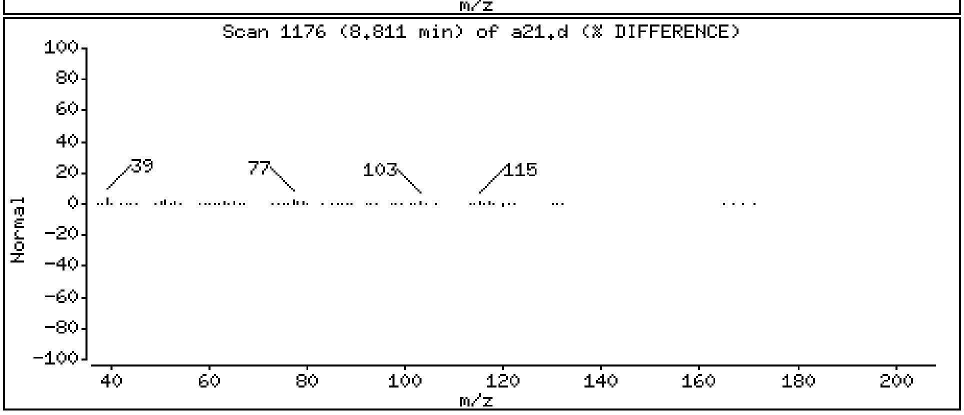












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Date : 23-JAN-2023 19:36

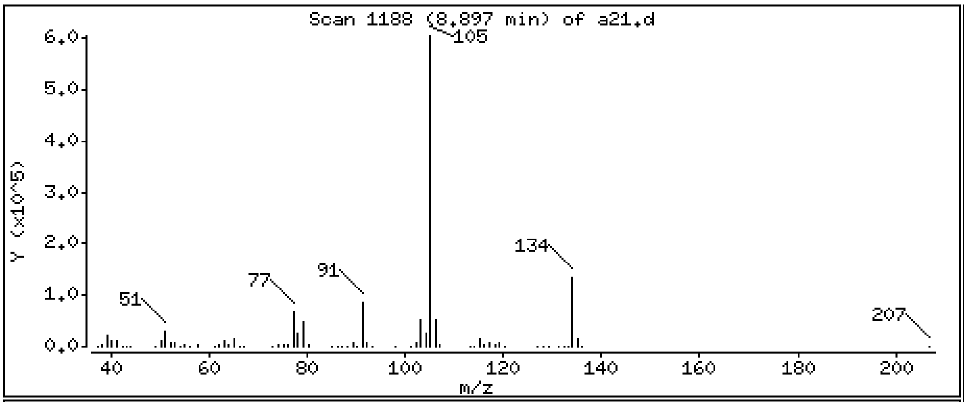
Client ID: LA2268MS Instrument: 50mvda.i

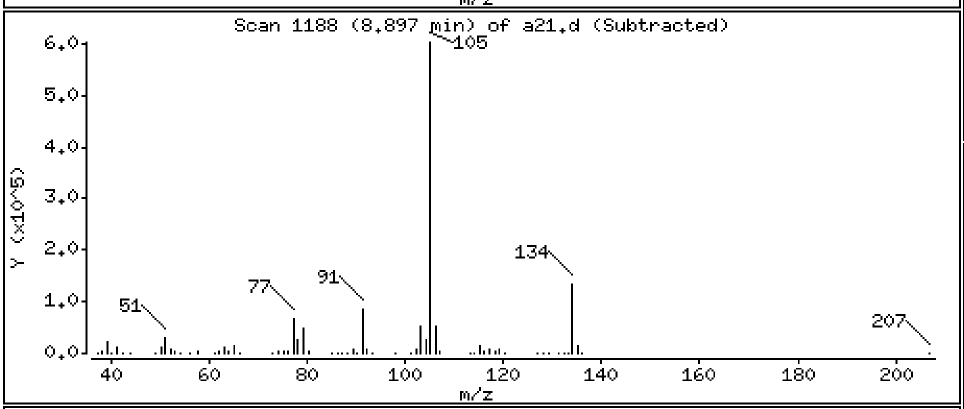
Sample Info: 3287469,336256:5

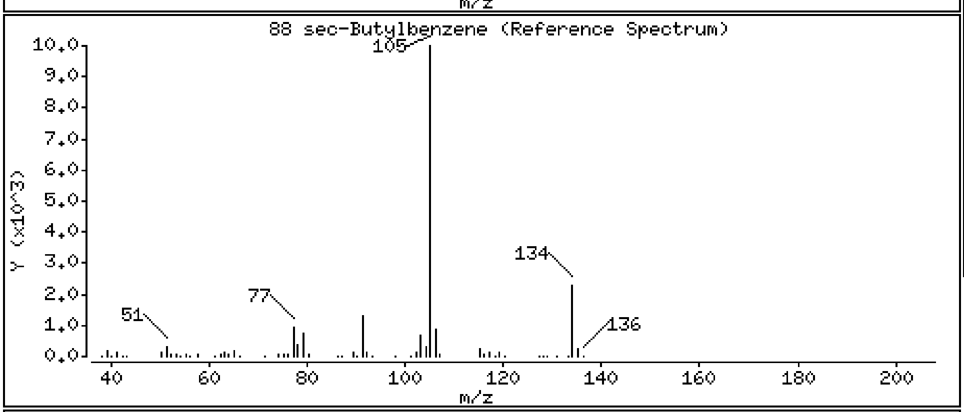
Purge Volume: 5.0 Operator: tkg

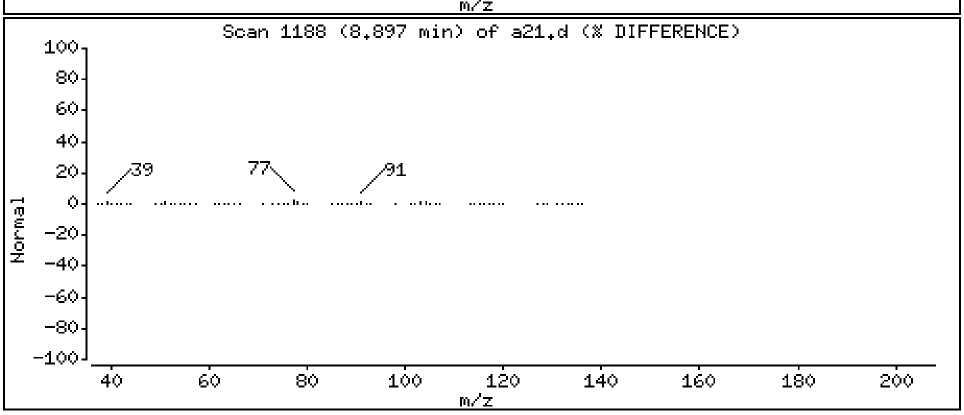
Column phase: DB-624 Column diameter: 0.18

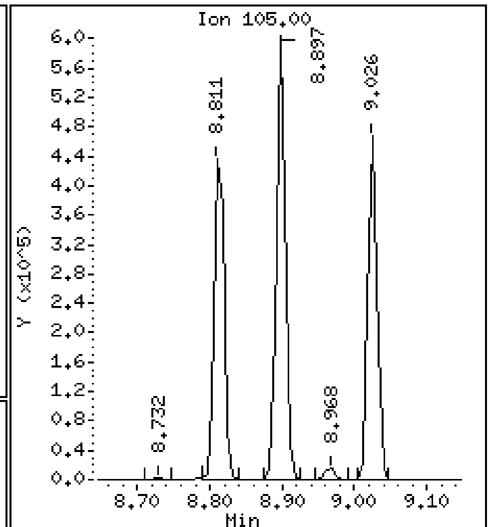
88 sec-Butylbenzene Concentration: 43.0 ppb Review Code:

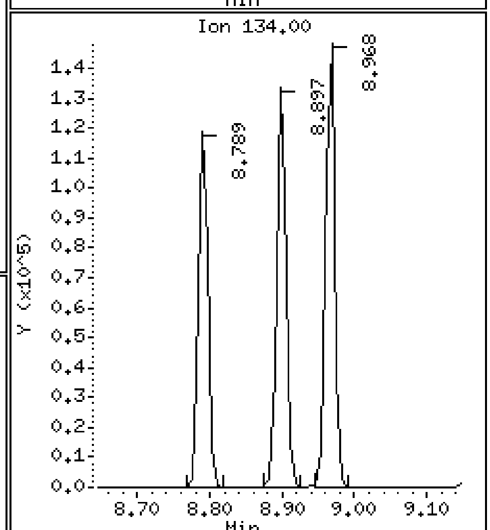












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

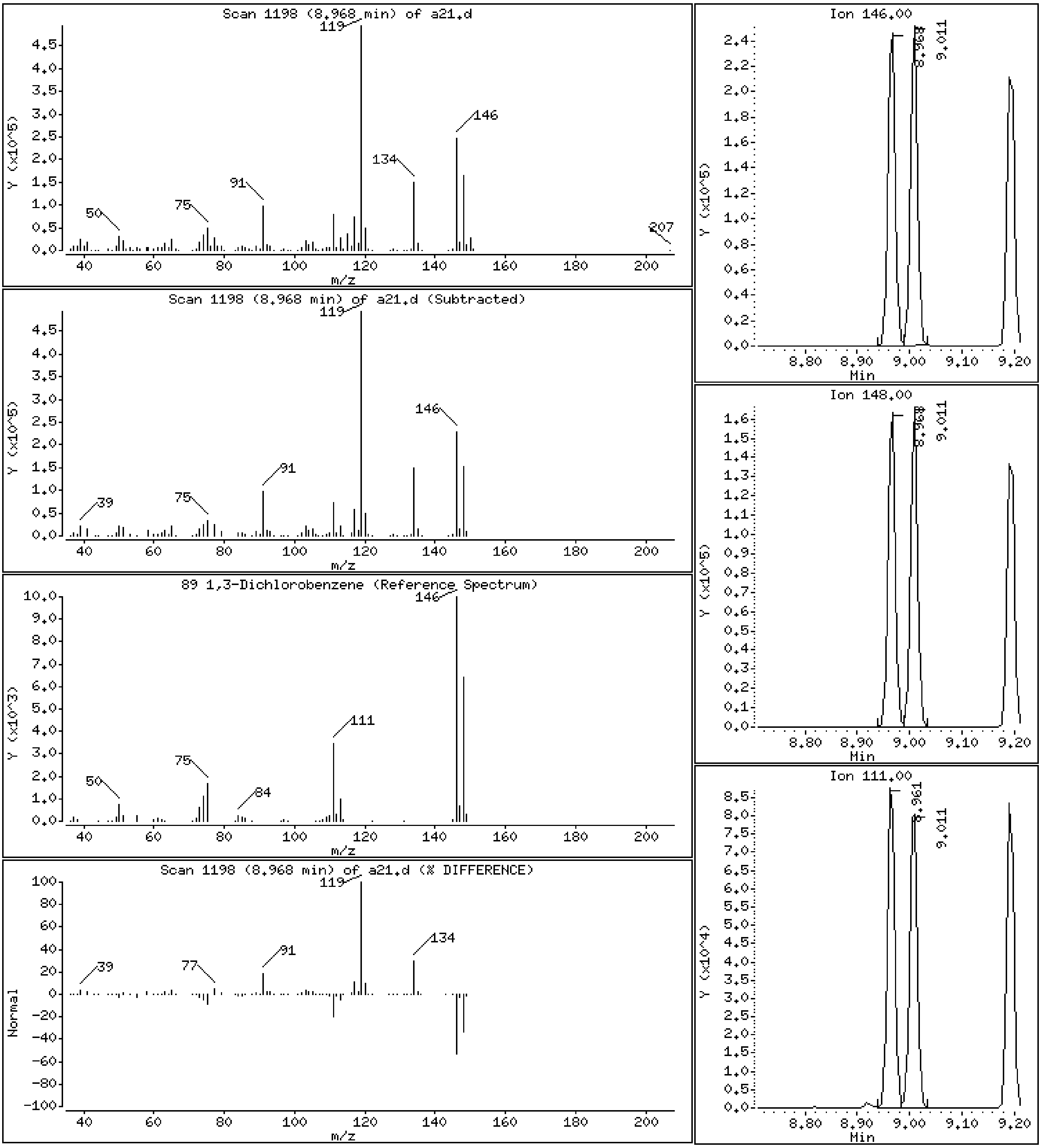
Column phase: DB-624

Column diameter: 0.18

89 1,3-Dichlorobenzene

Concentration: 45.6 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

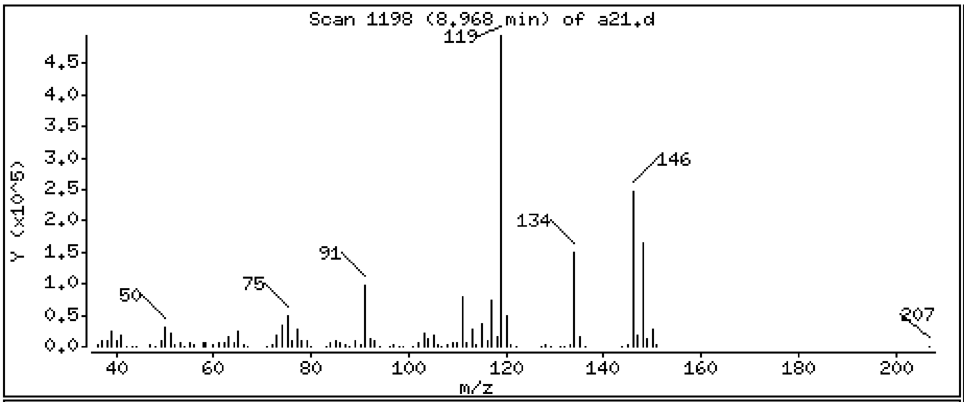
Column phase: DB-624

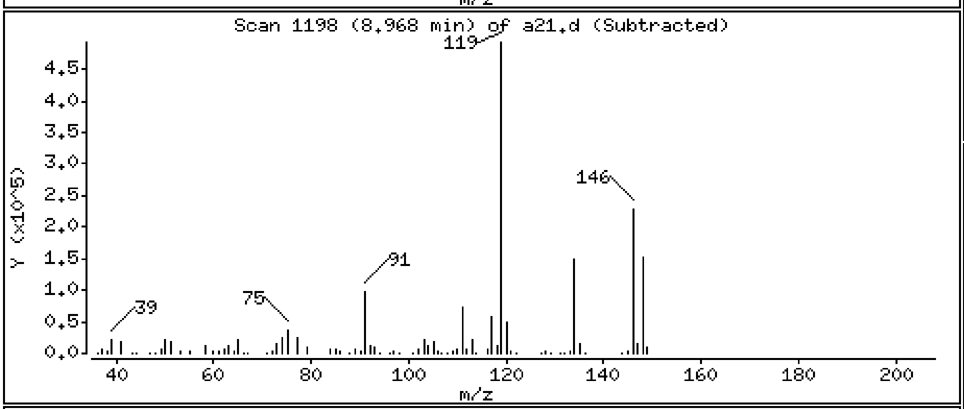
Column diameter: 0.18

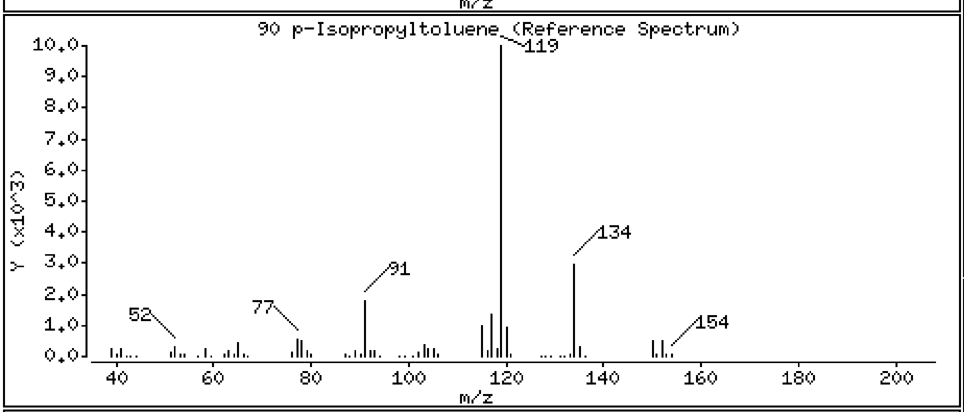
90 p-Isopropyltoluene

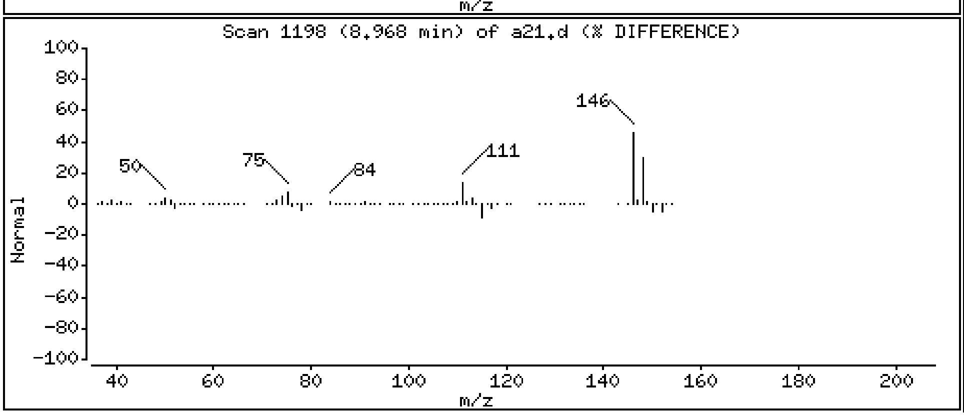
Concentration: 43.4 ppb

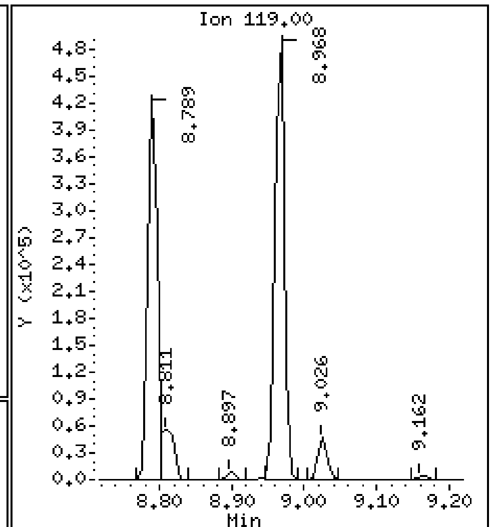
Review Code:

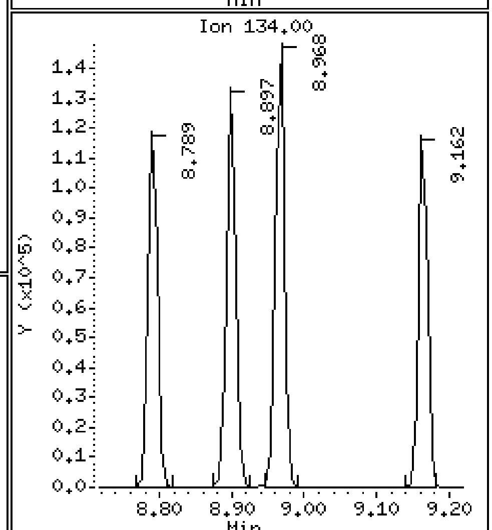


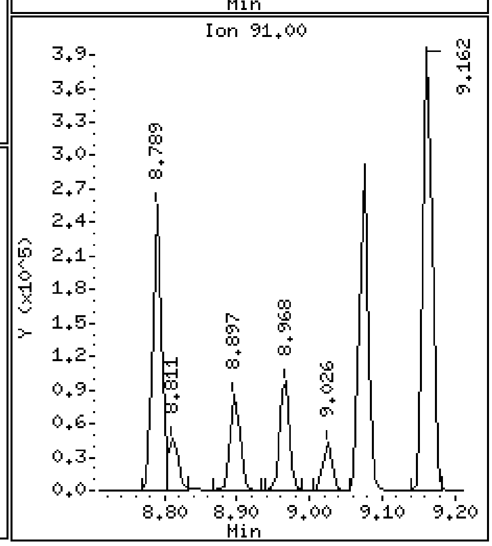












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

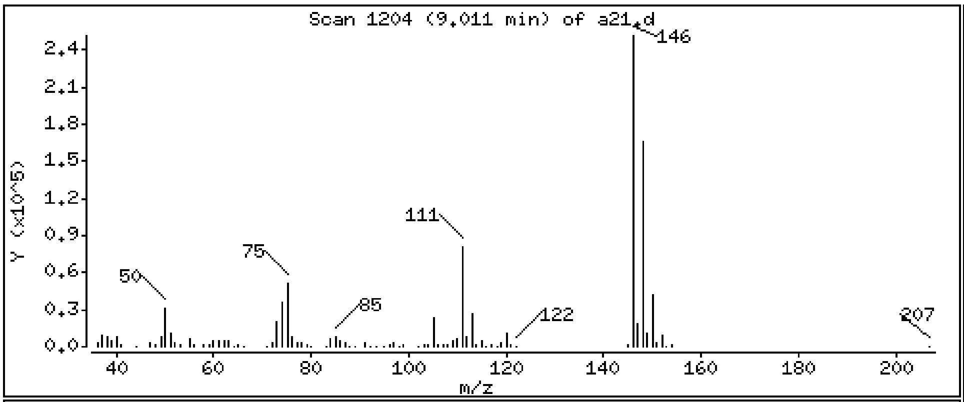
Column phase: DB-624

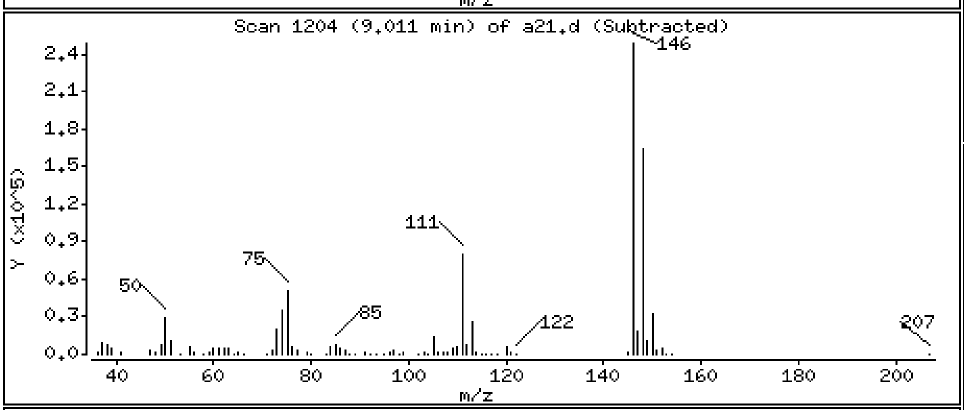
Column diameter: 0.18

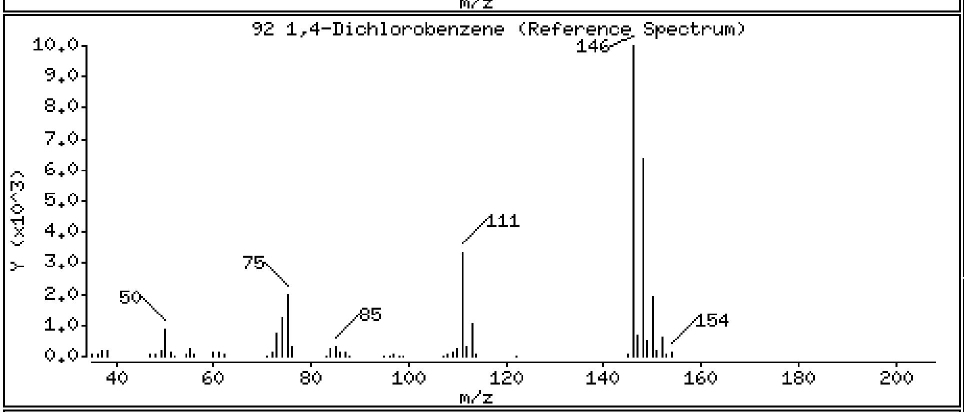
92 1,4-Dichlorobenzene

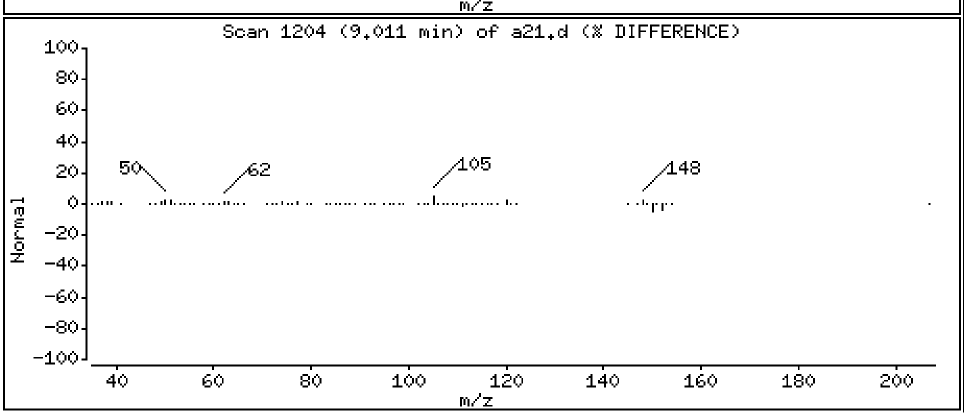
Concentration: 44.5 ppb

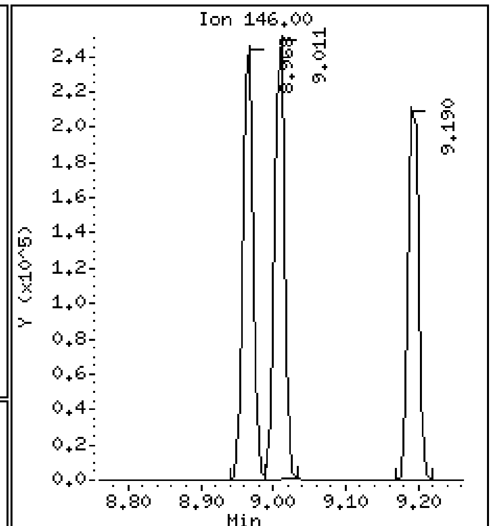
Review Code:

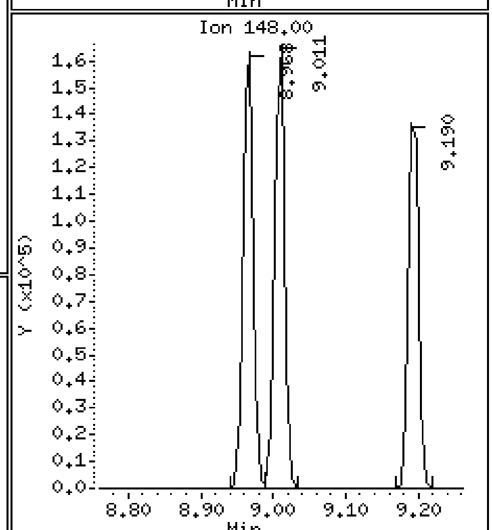


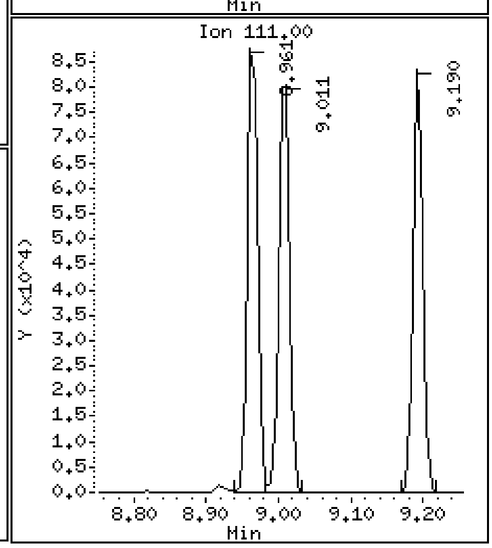












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

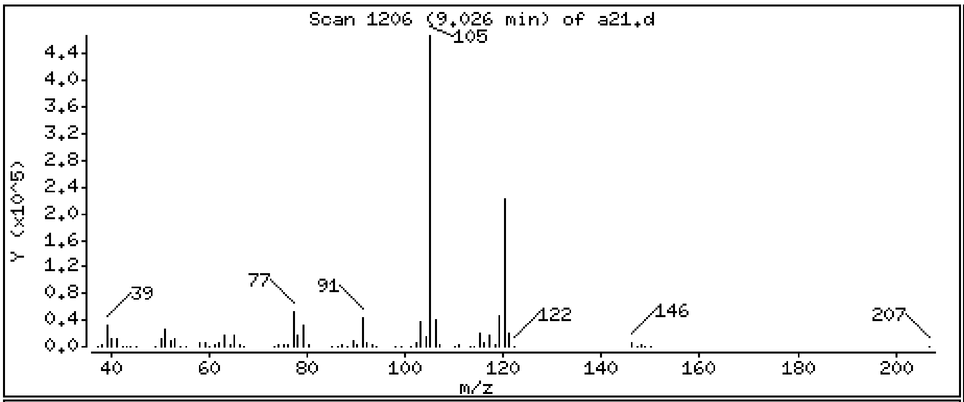
Column phase: DB-624

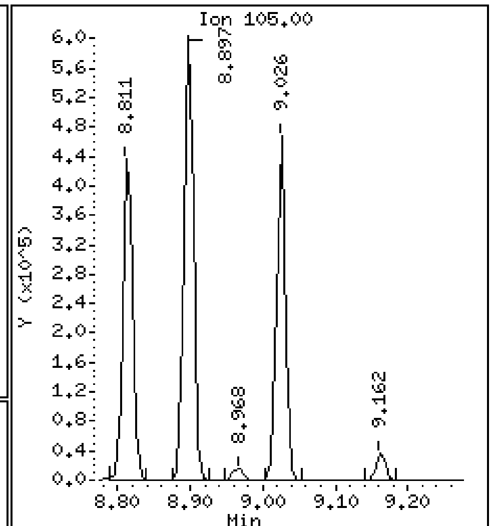
Column diameter: 0.18

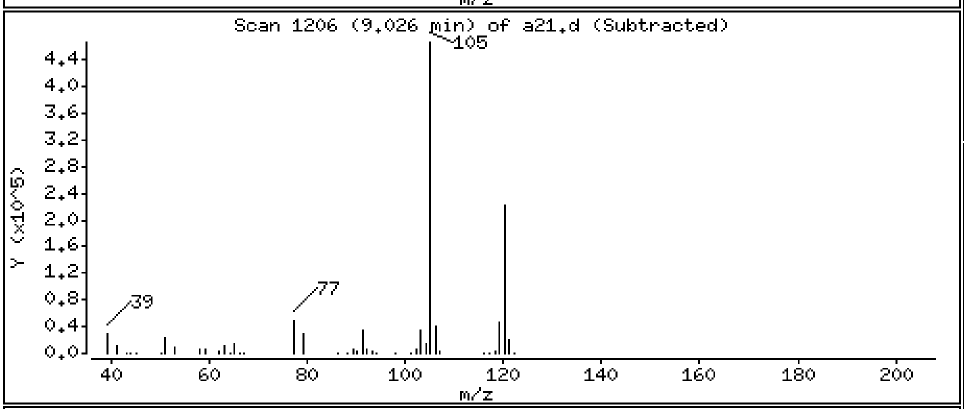
93 1,2,3-Trimethylbenzene

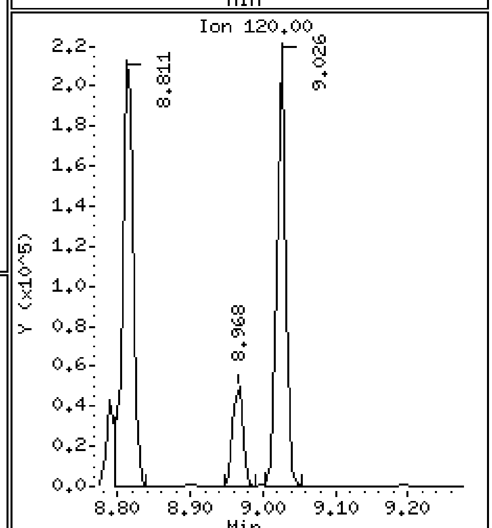
Concentration: 42.3 ppb

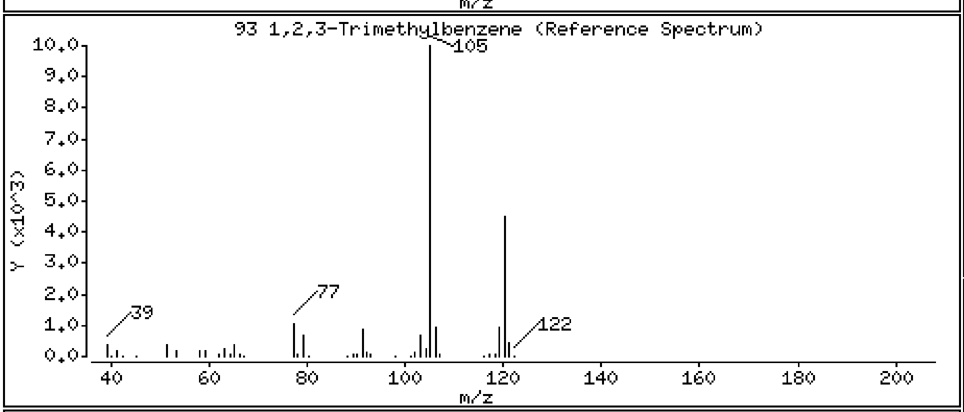
Review Code:

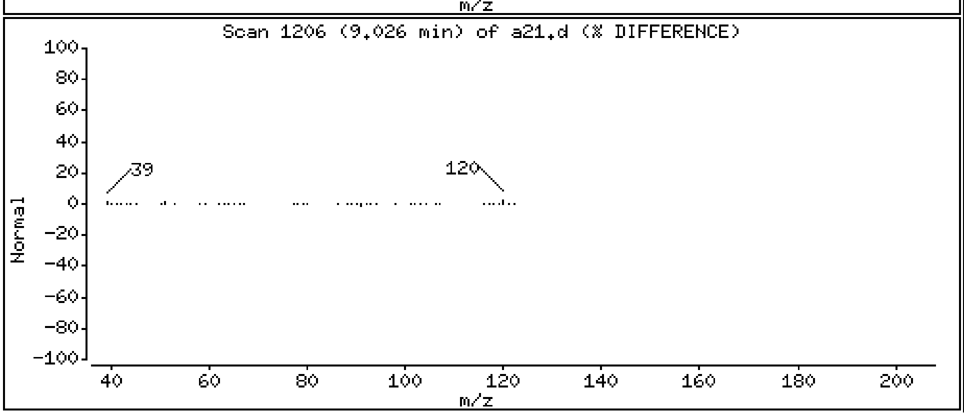


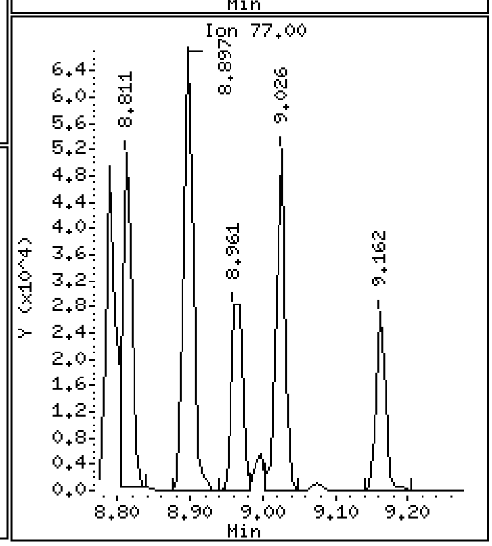












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Date : 23-JAN-2023 19:36

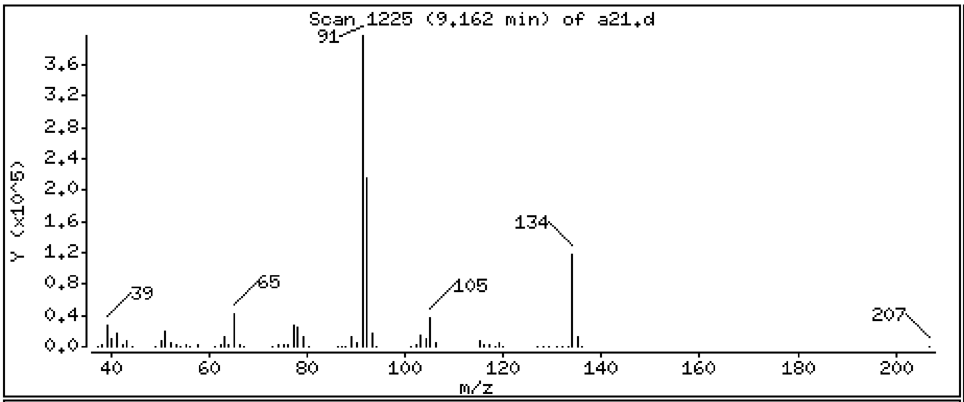
Client ID: LA2268MS Instrument: 50mvda.i

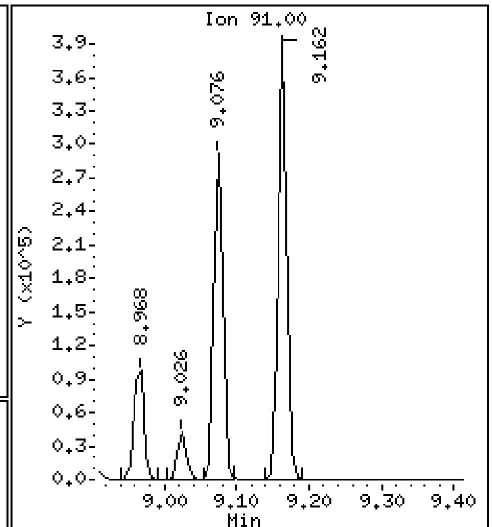
Sample Info: 3287469,336256:5

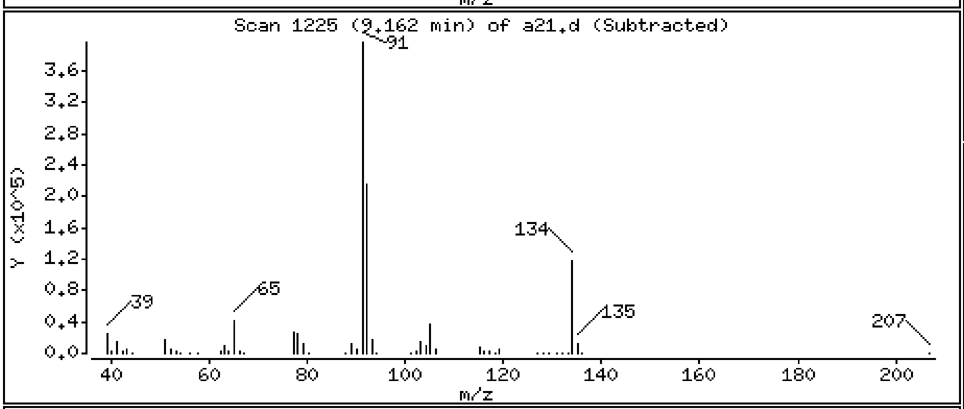
Purge Volume: 5.0 Operator: tkg

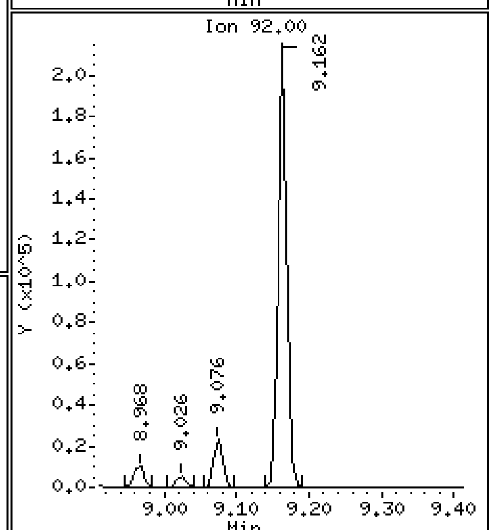
Column phase: DB-624 Column diameter: 0.18

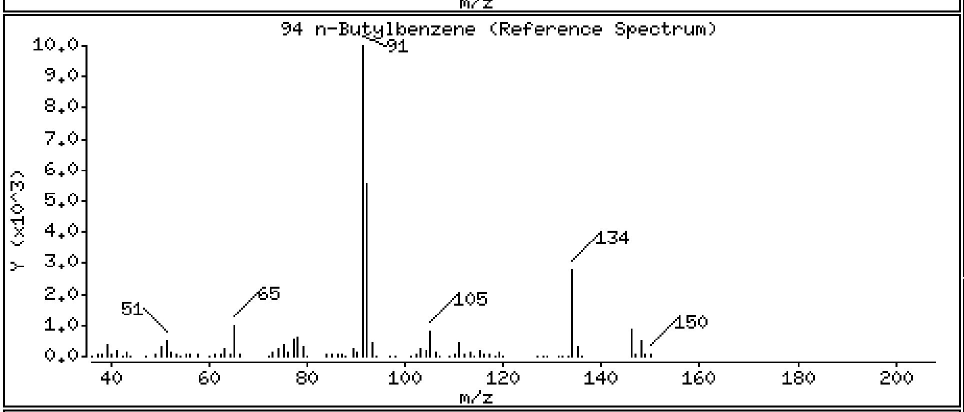
94 n-Butylbenzene Concentration: 39.4 ppb Review Code:

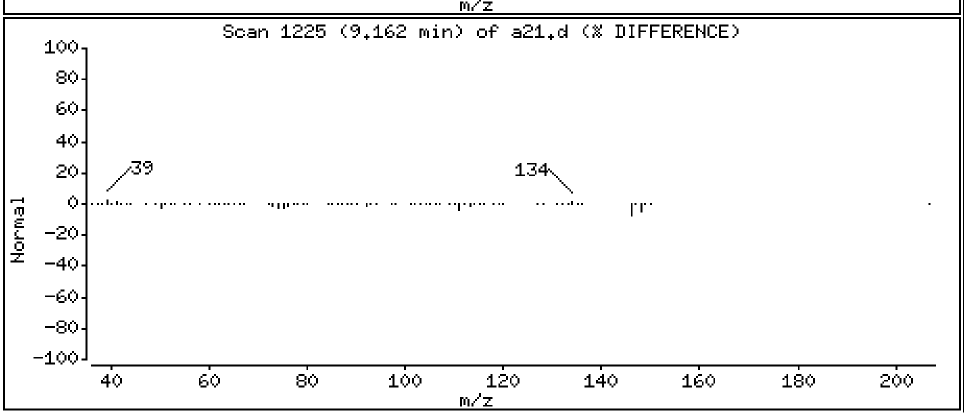


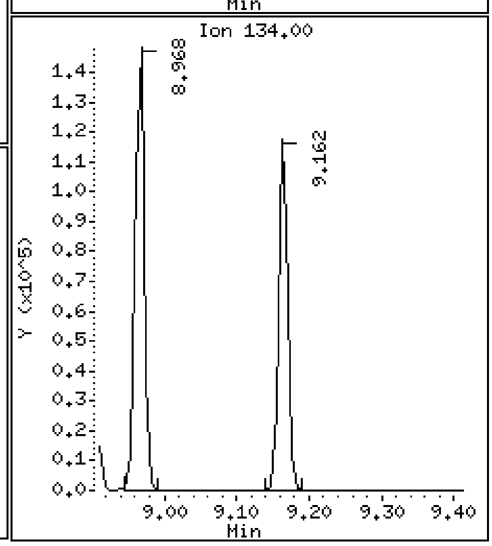












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

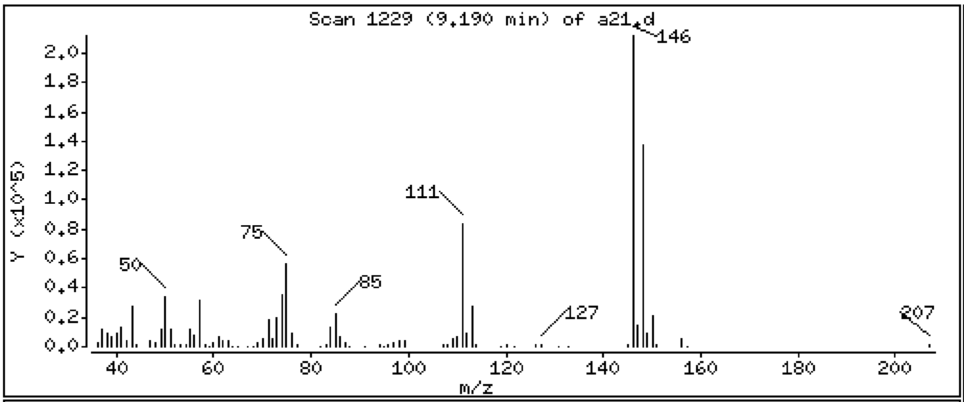
Column phase: DB-624

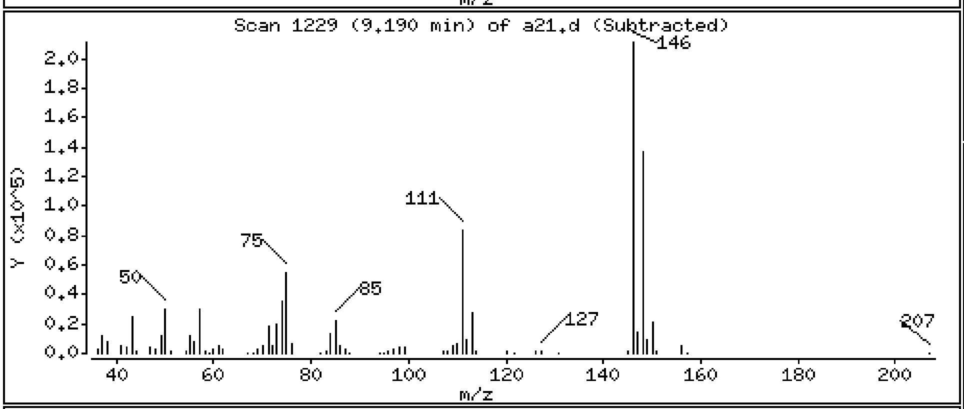
Column diameter: 0.18

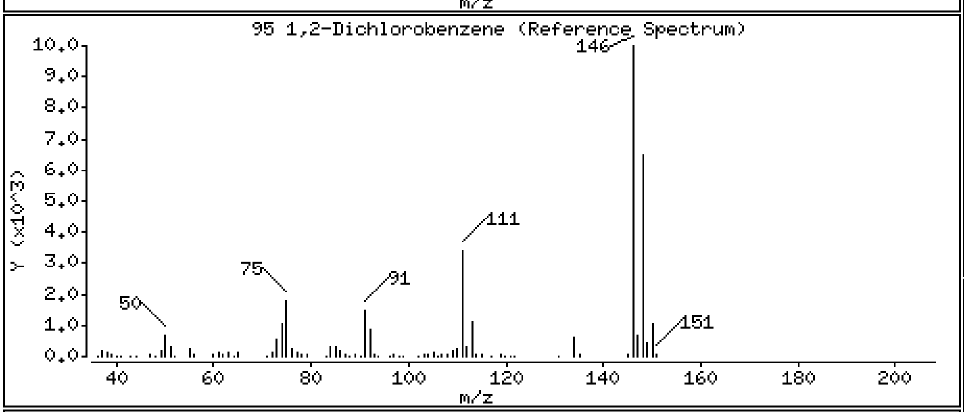
95 1,2-Dichlorobenzene

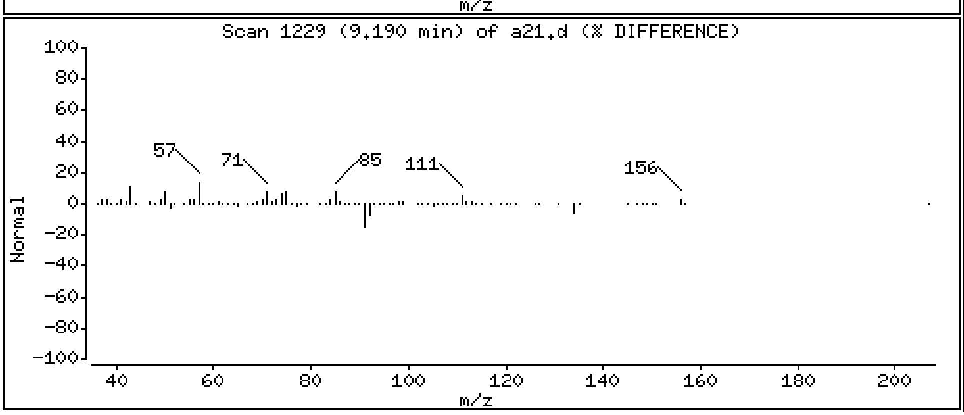
Concentration: 46.8 ppb

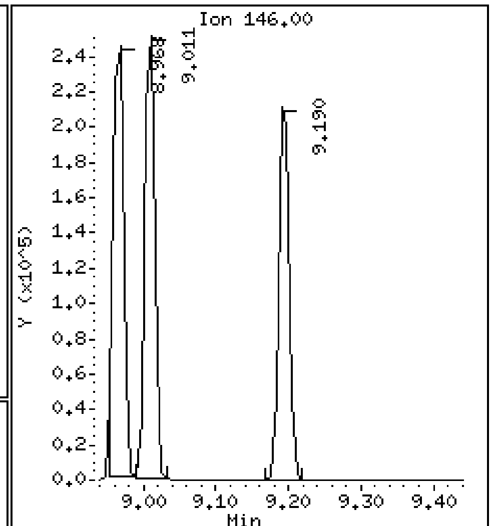
Review Code:

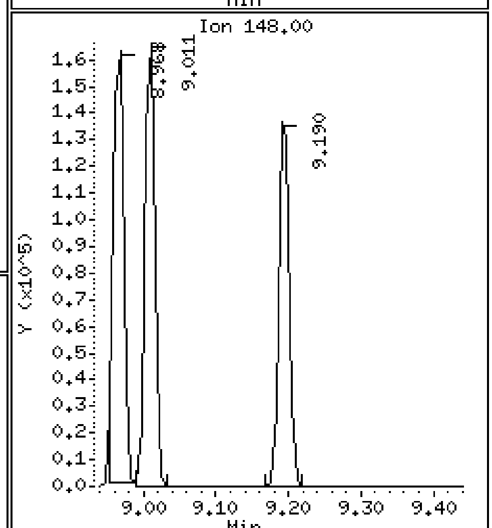


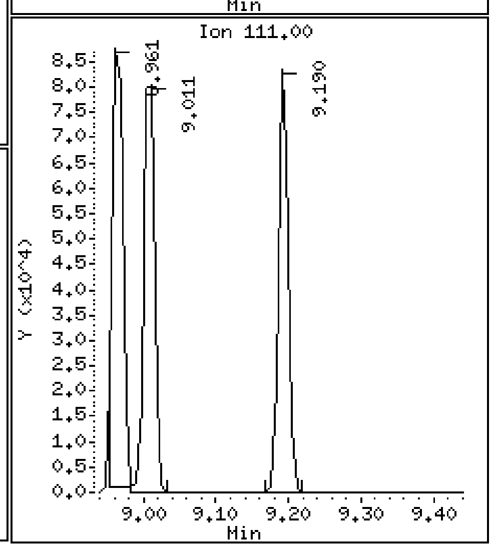












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Date : 23-JAN-2023 19:36

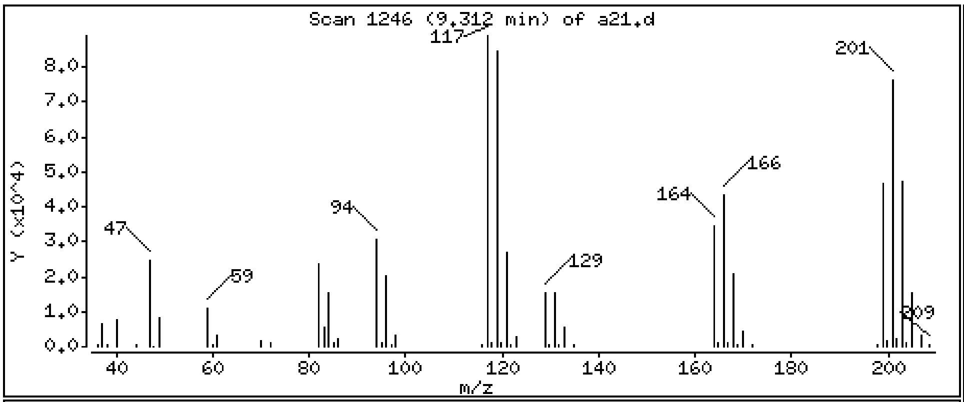
Client ID: LA2268MS | Instrument: 50mvda.i

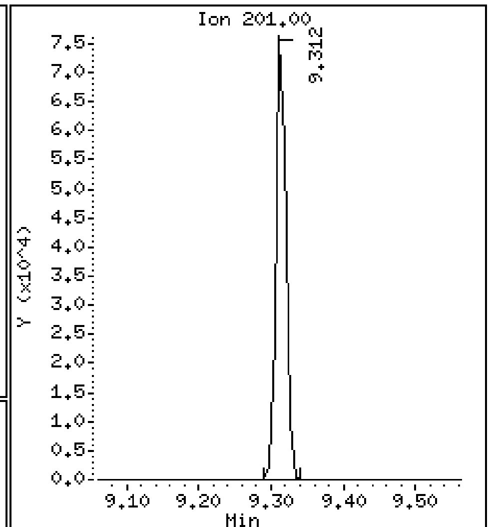
Sample Info: 3287469,336256:5

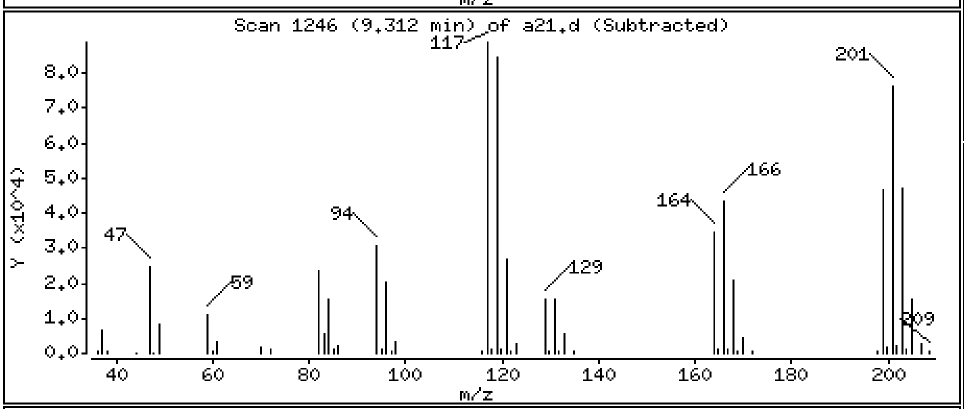
Purge Volume: 5.0 | Operator: tkg

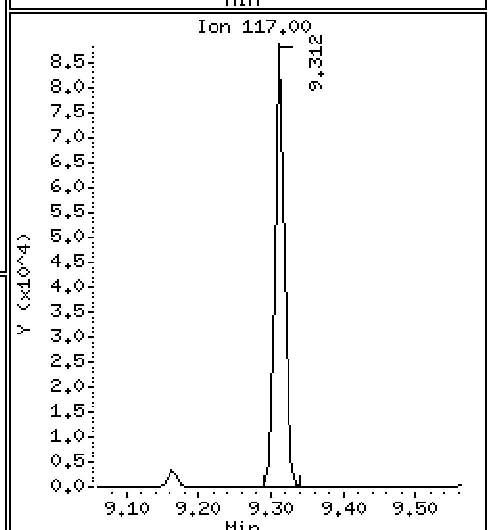
Column phase: DB-624 | Column diameter: 0.18

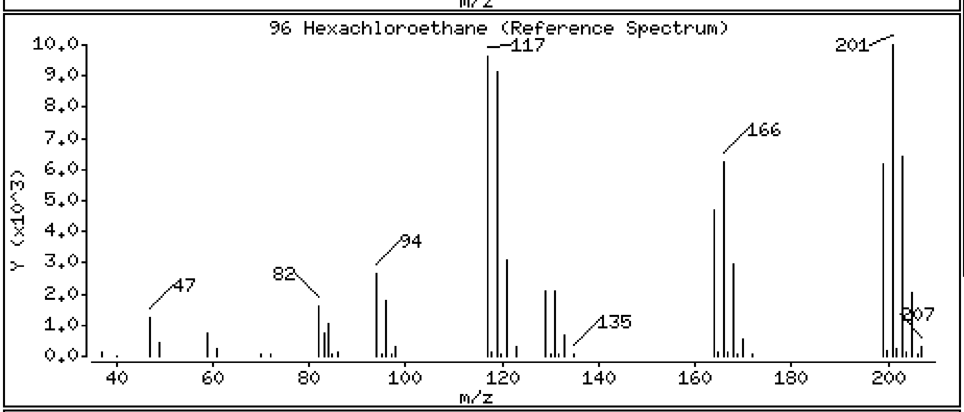
96 Hexachloroethane | Concentration: 55.4 ppb | Review Code:

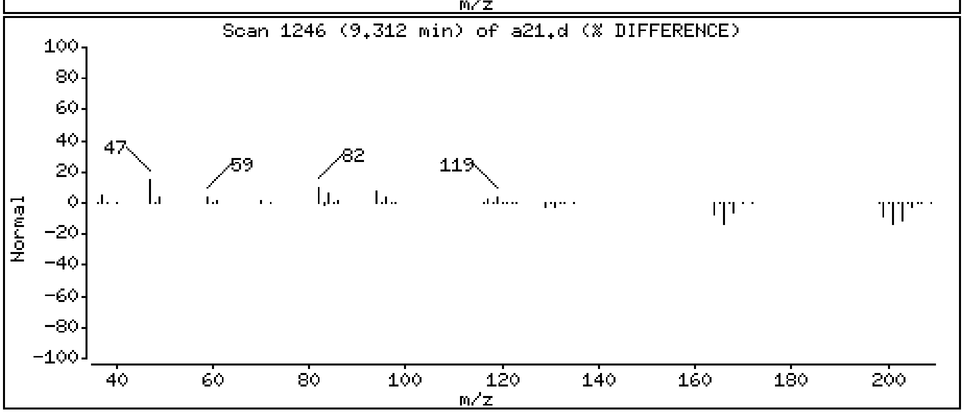












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

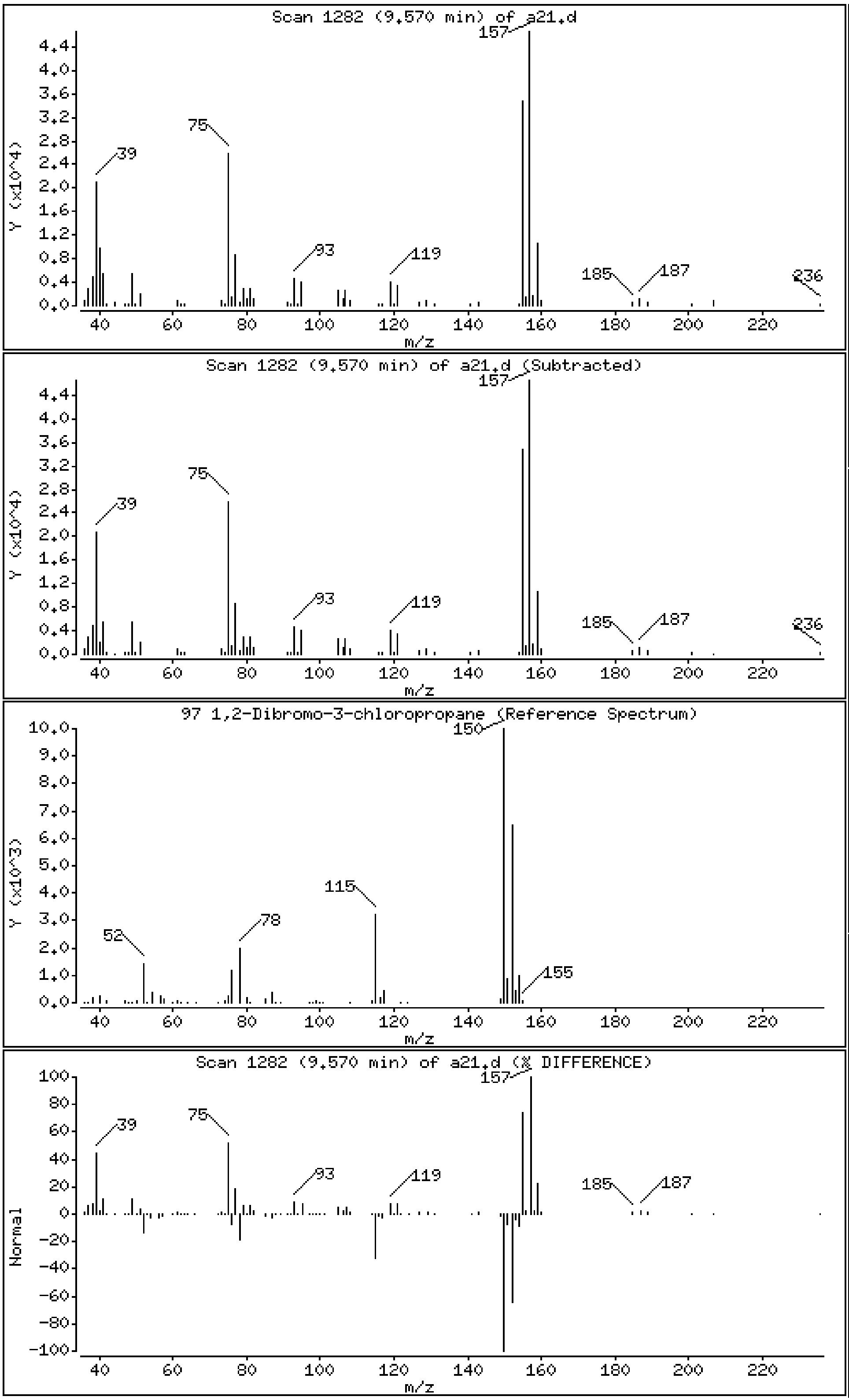
Column phase: DB-624

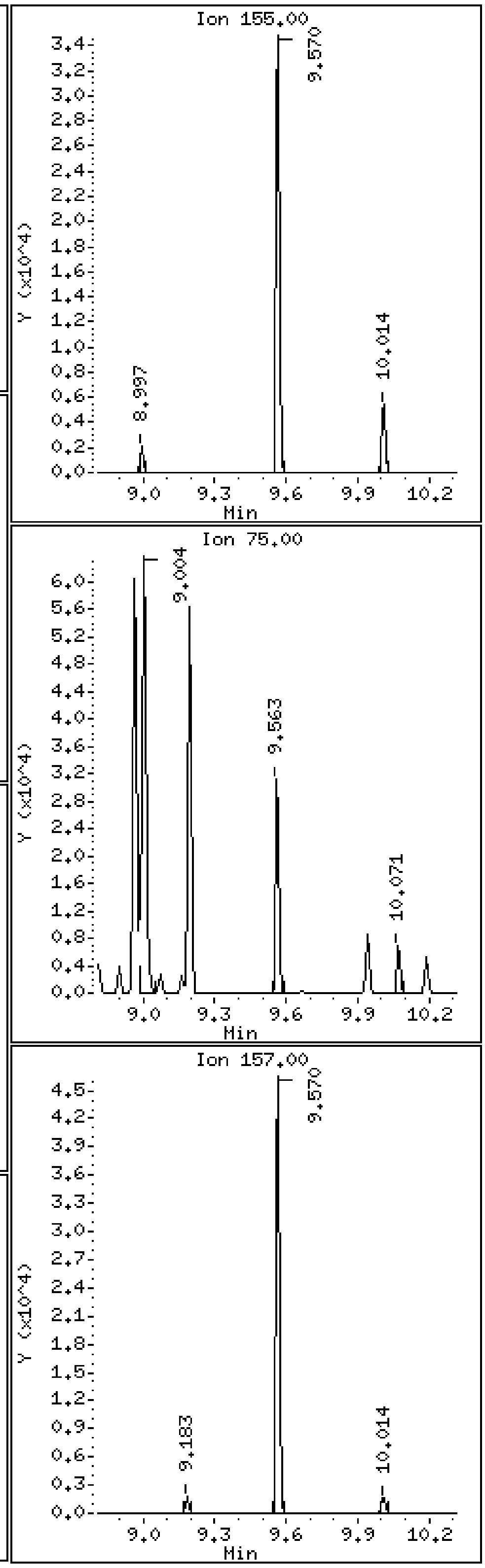
Column diameter: 0.18

97 1,2-Dibromo-3-chloropropane

Concentration: 49.2 ppb

Review Code:





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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

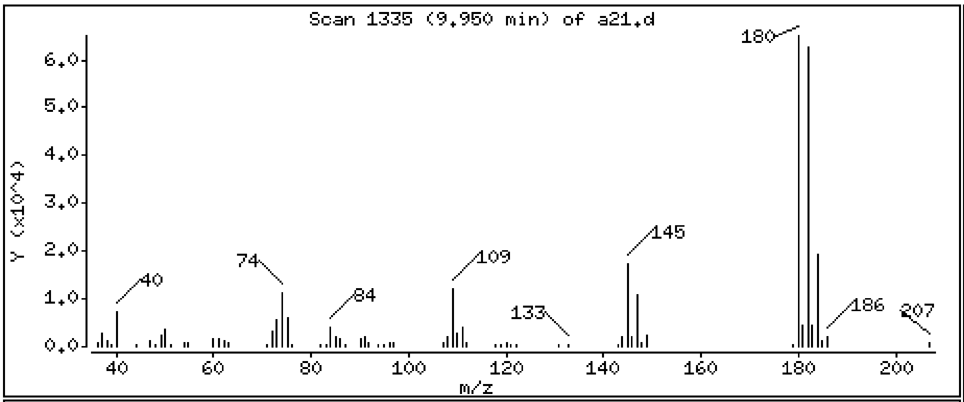
Column phase: DB-624

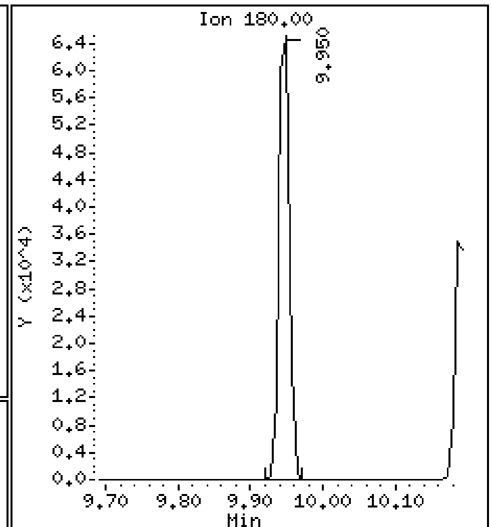
Column diameter: 0.18

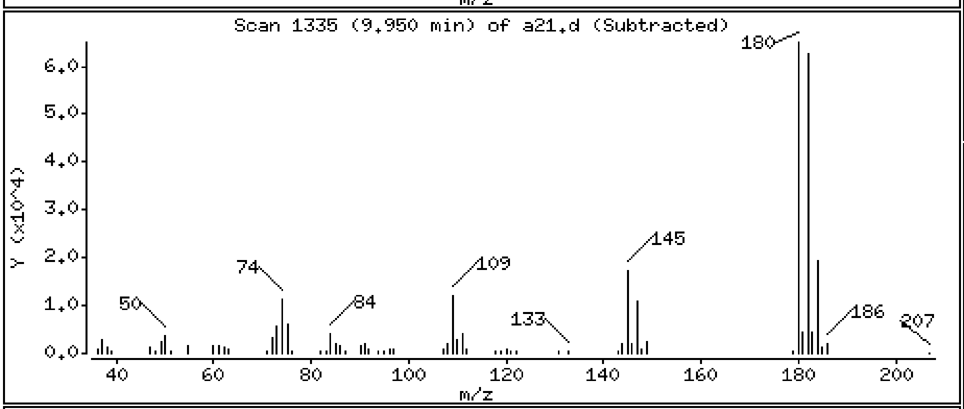
98 1,2,4-Trichlorobenzene

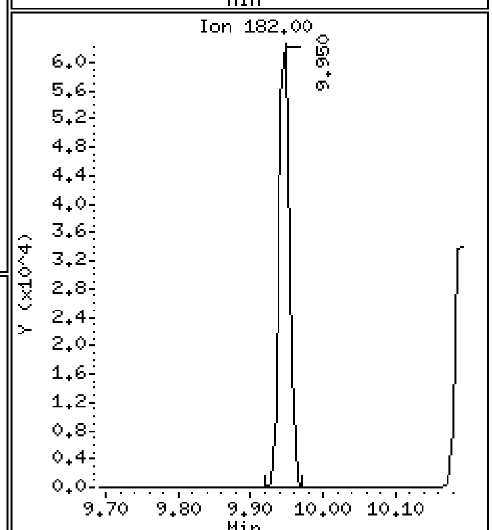
Concentration: 44.4 ppb

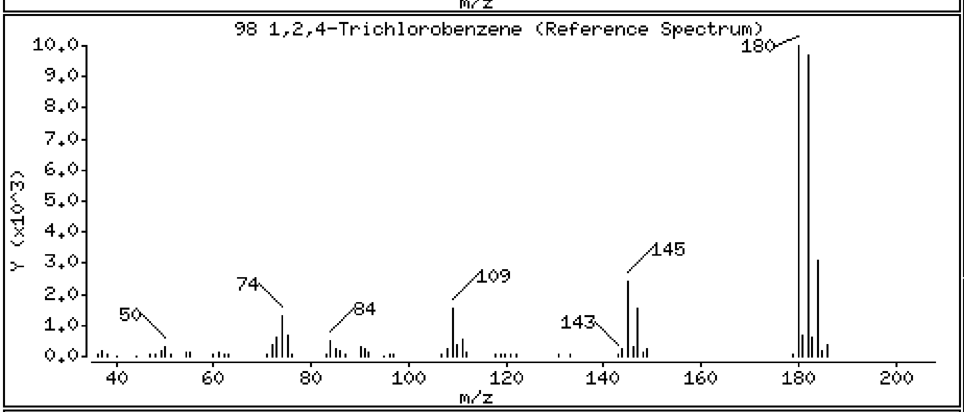
Review Code:

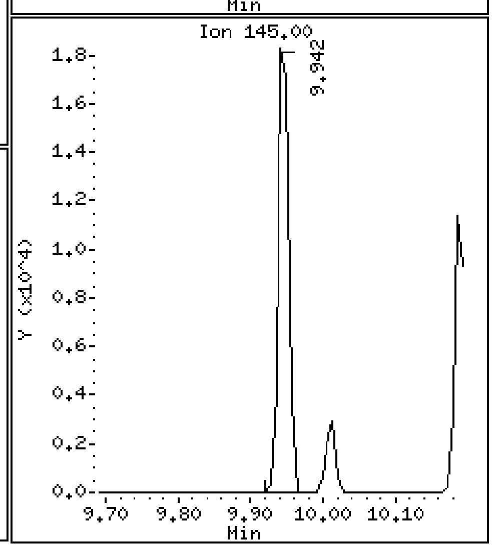


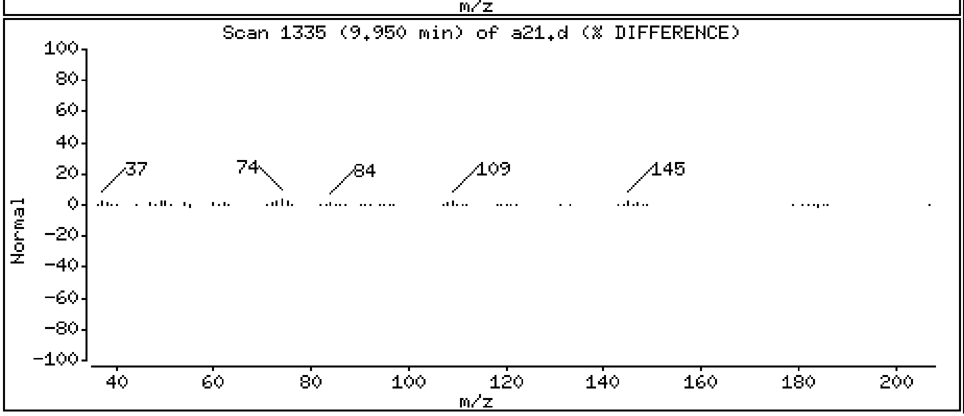












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

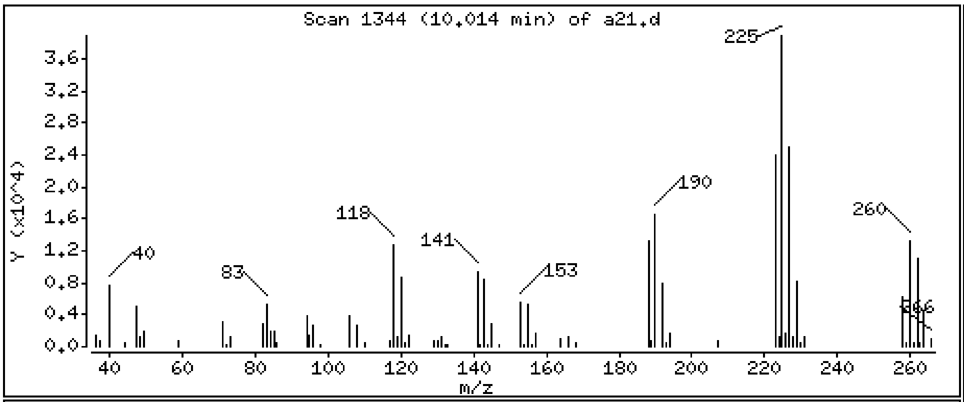
Column phase: DB-624

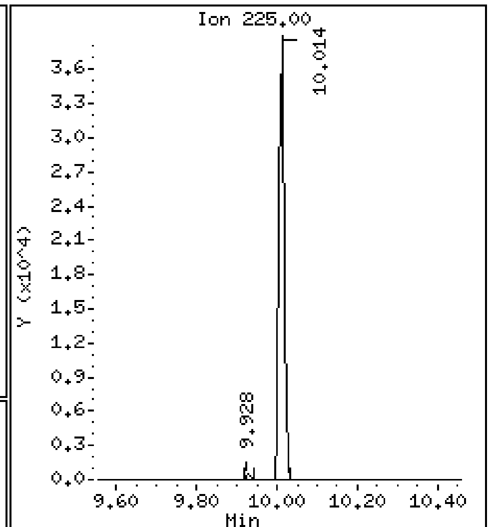
Column diameter: 0.18

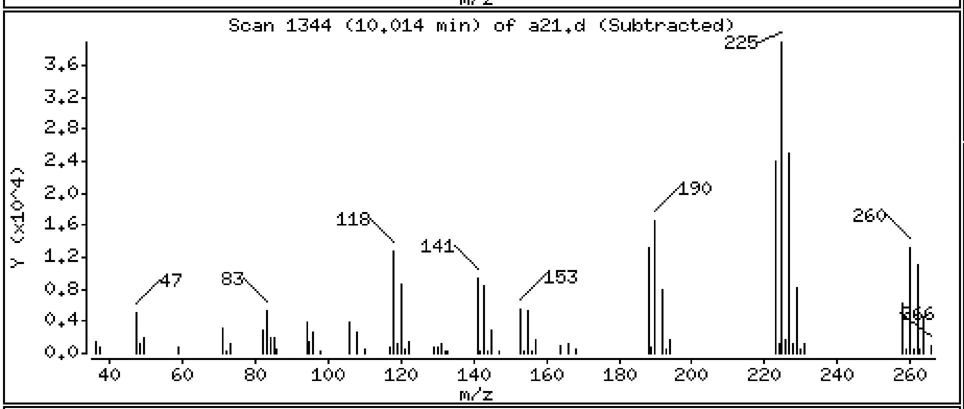
99 Hexachlorobutadiene

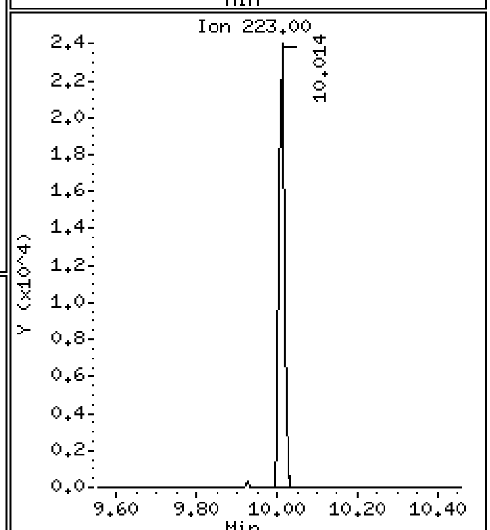
Concentration: 48.8 ppb

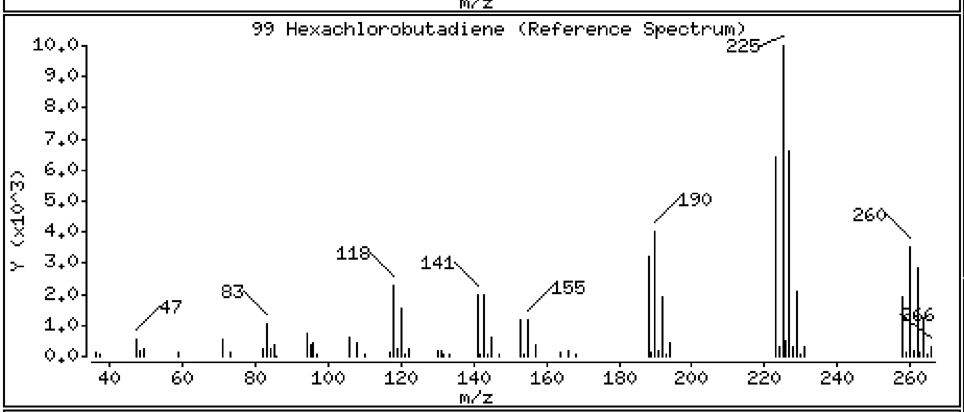
Review Code:

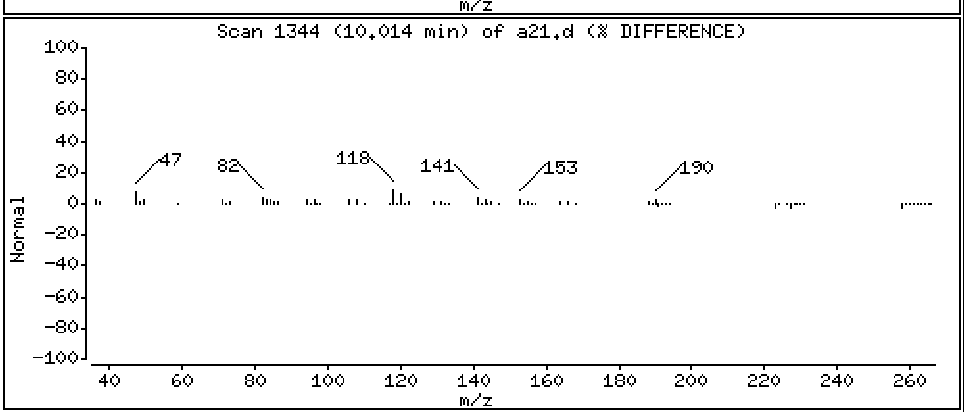


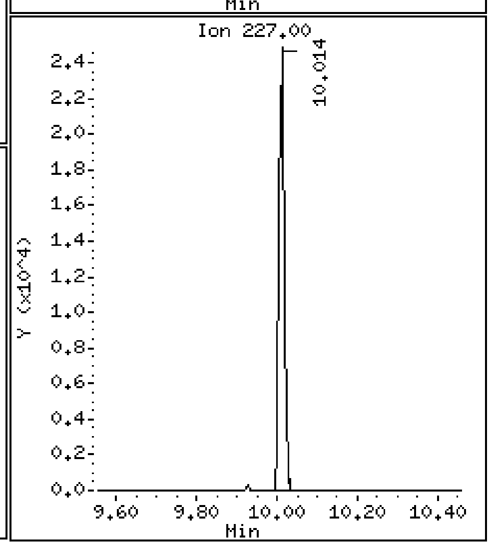












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

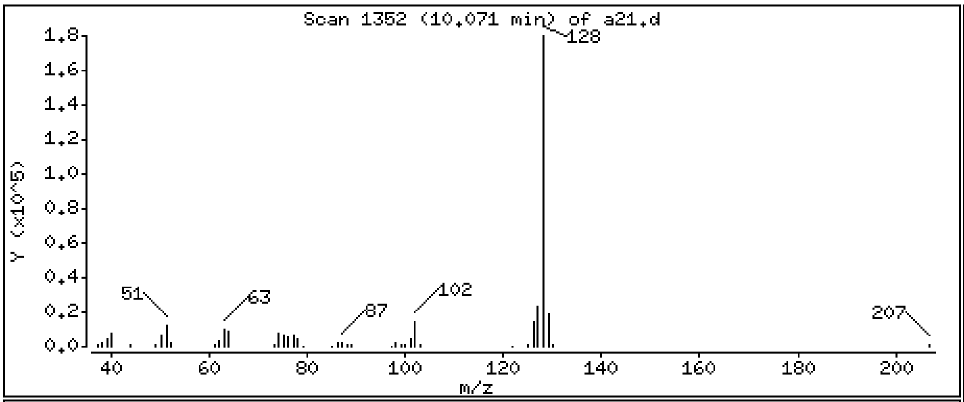
Column phase: DB-624

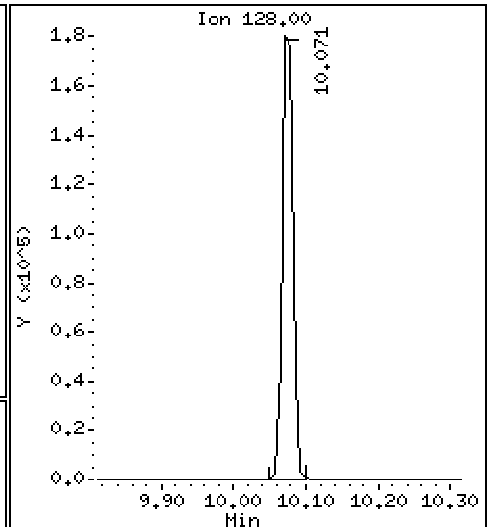
Column diameter: 0.18

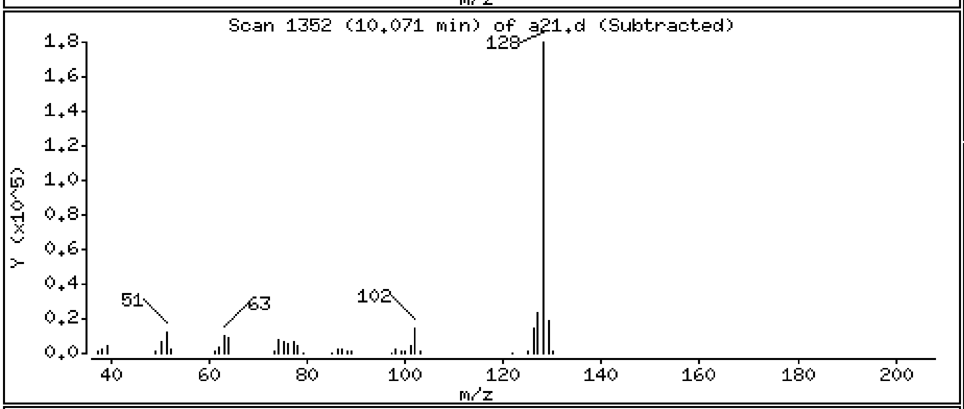
100 Naphthalene

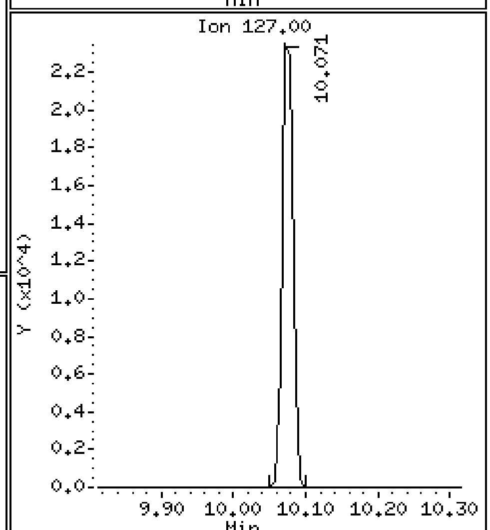
Concentration: 42.7 ppb

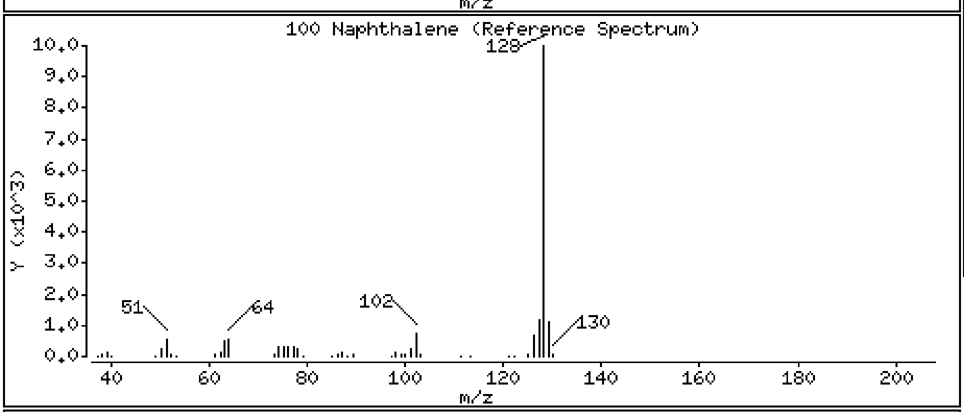
Review Code:

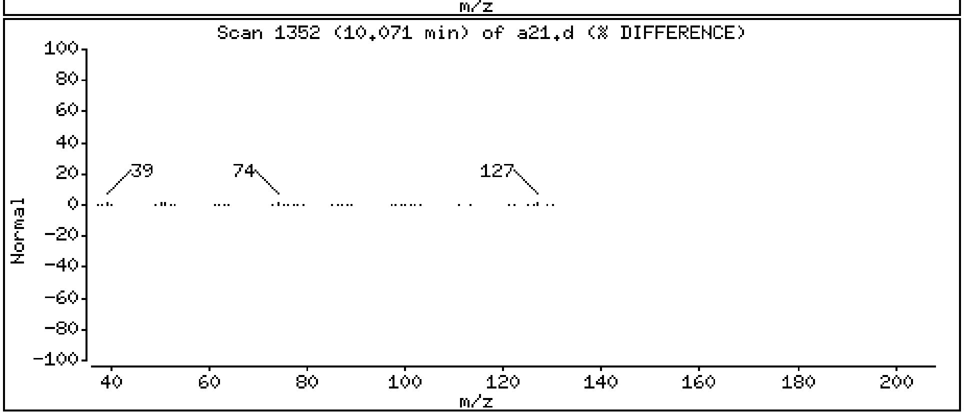












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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

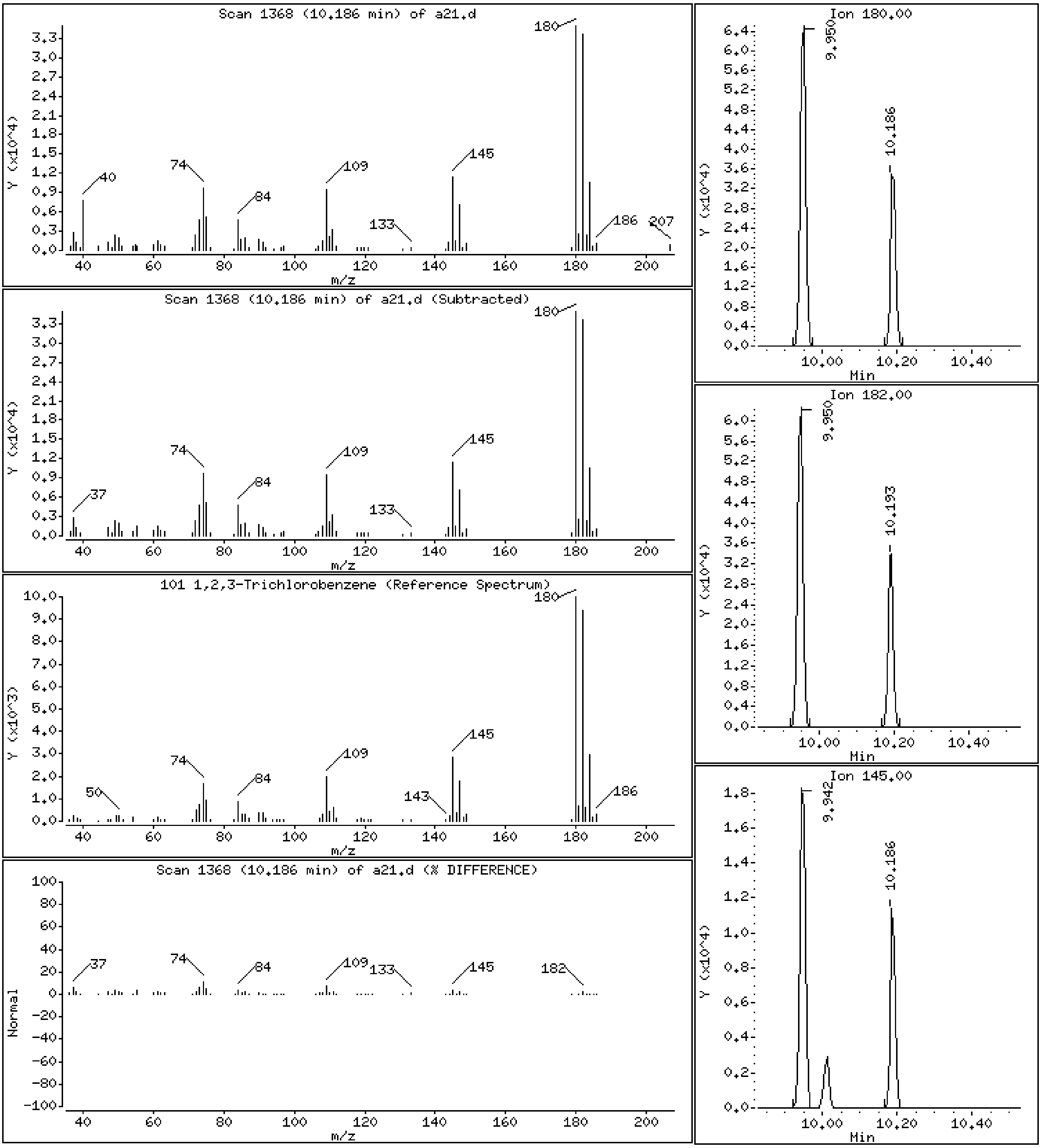
Column phase: DB-624

Column diameter: 0.18

101 1,2,3-Trichlorobenzene

Concentration: 45.9 ppb

Review Code:



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Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

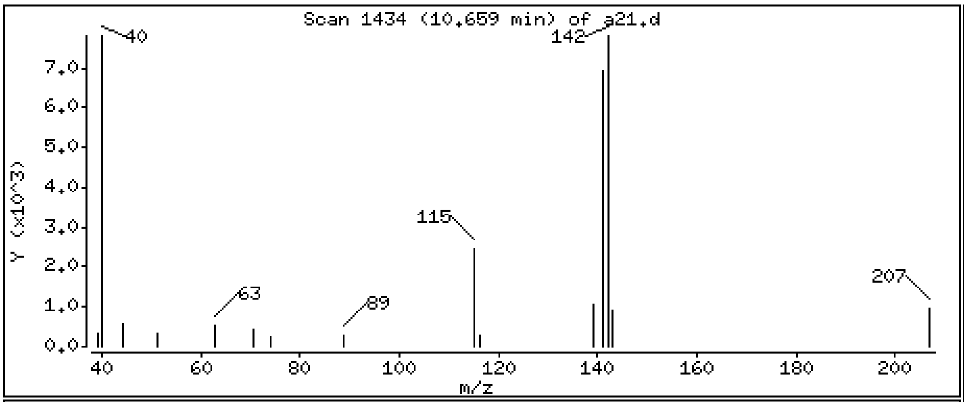
Column phase: DB-624

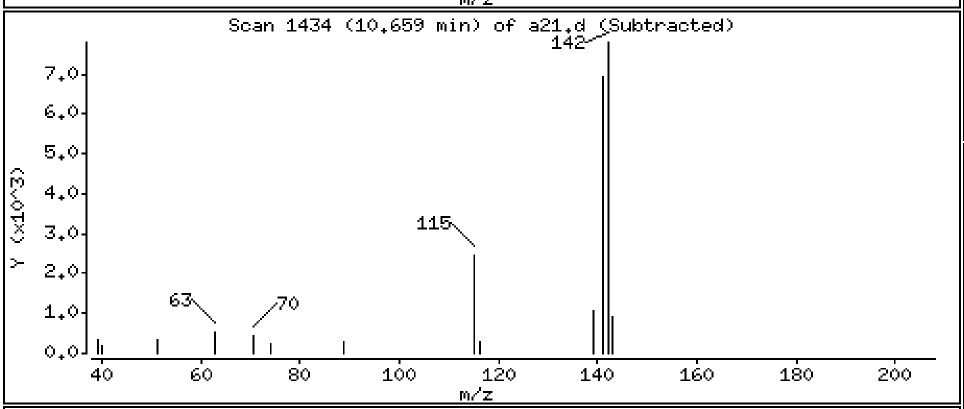
Column diameter: 0.18

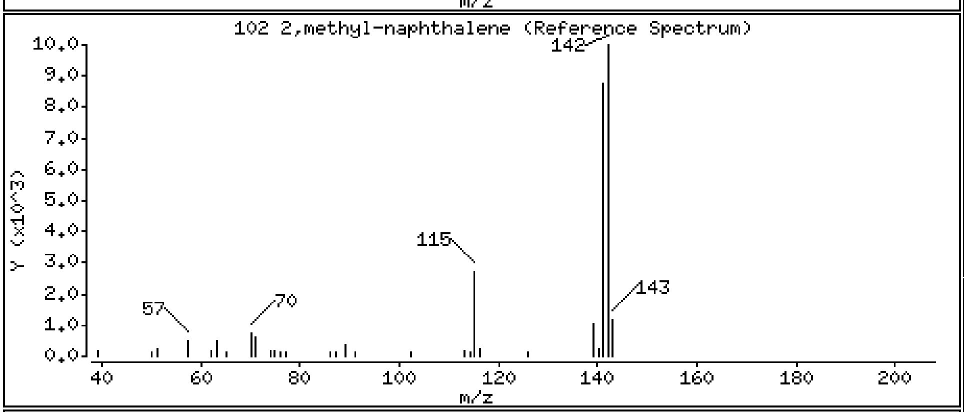
102 2,methyl-naphthalene

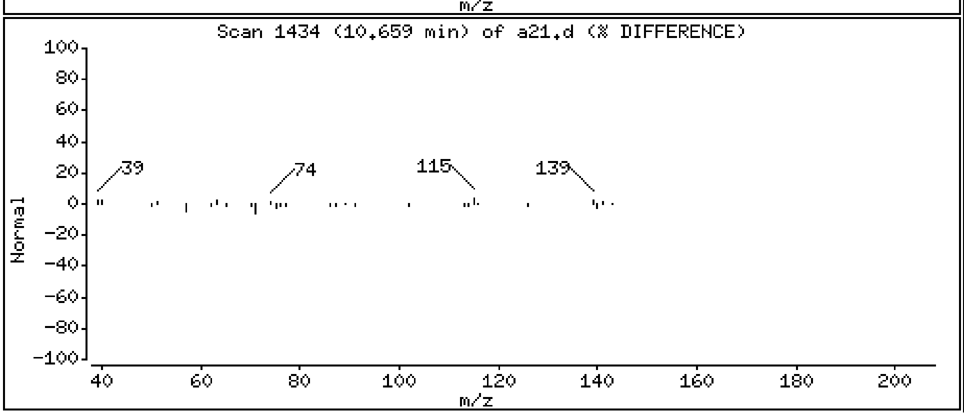
Concentration: 39.3 ppb

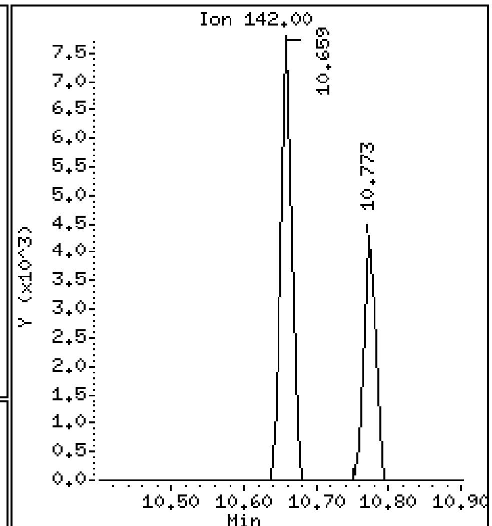
Review Code:

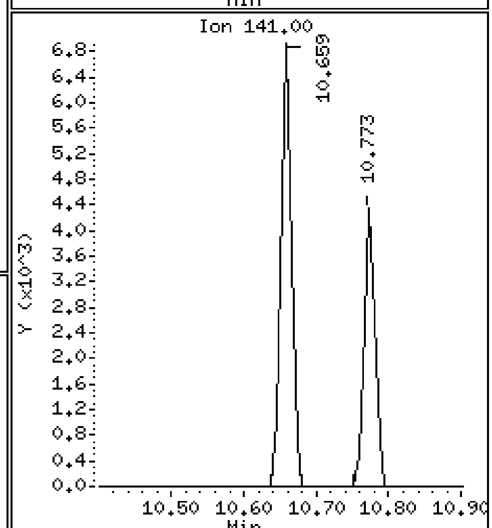


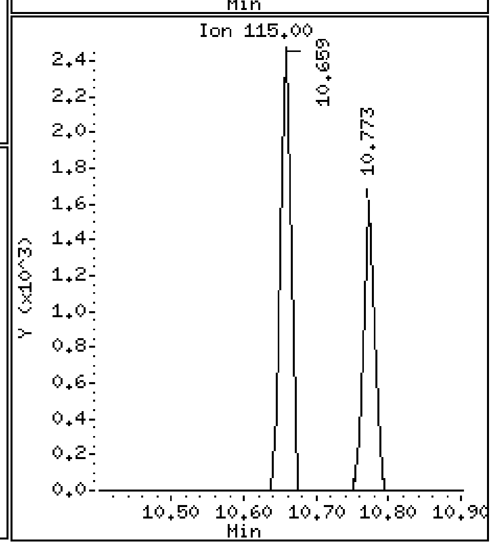












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d

Date : 23-JAN-2023 19:36

Client ID: LA2268MS

Instrument: 50mvda.i

Sample Info: 3287469,336256:5

Purge Volume: 5.0

Operator: tkg

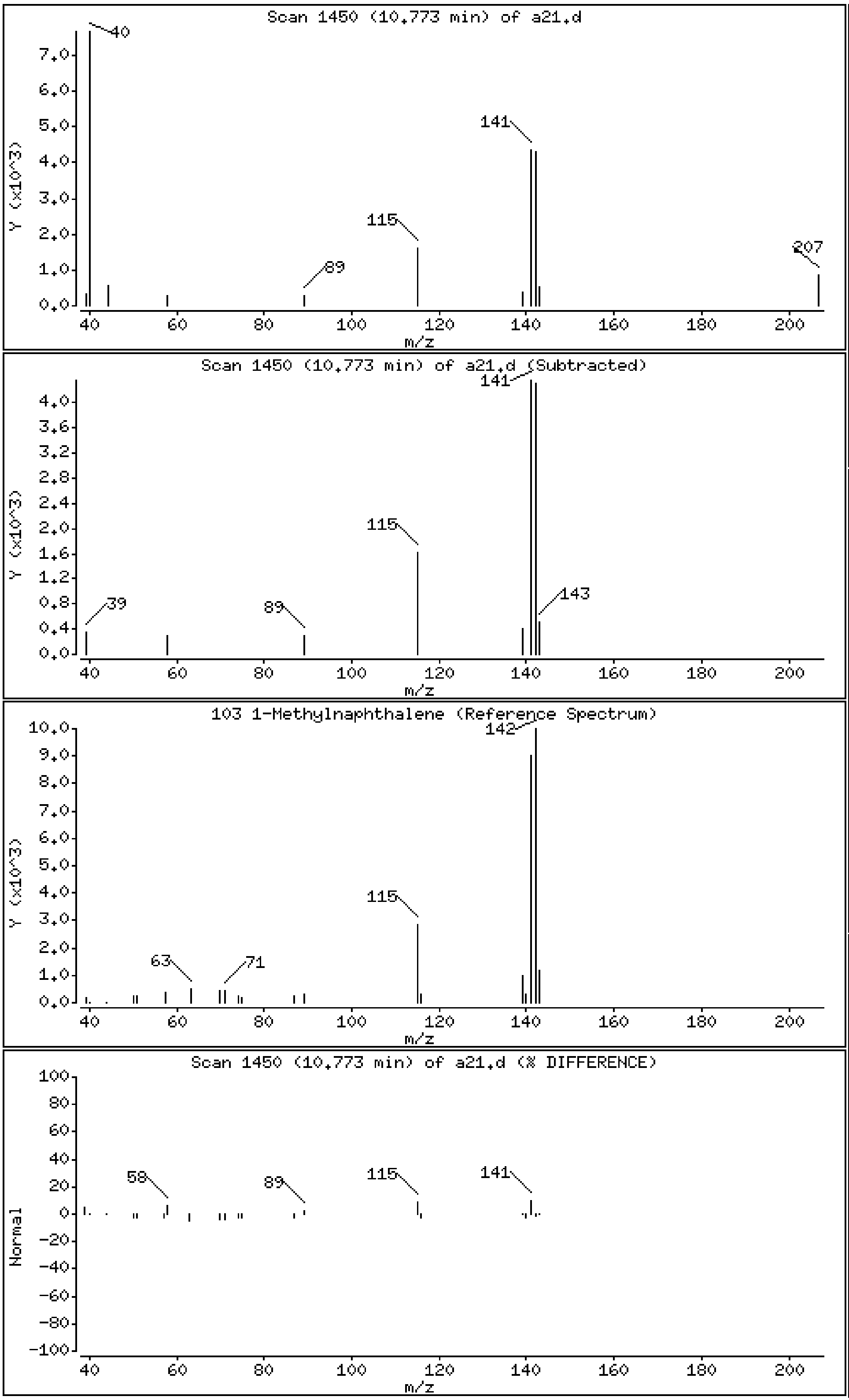
Column phase: DB-624

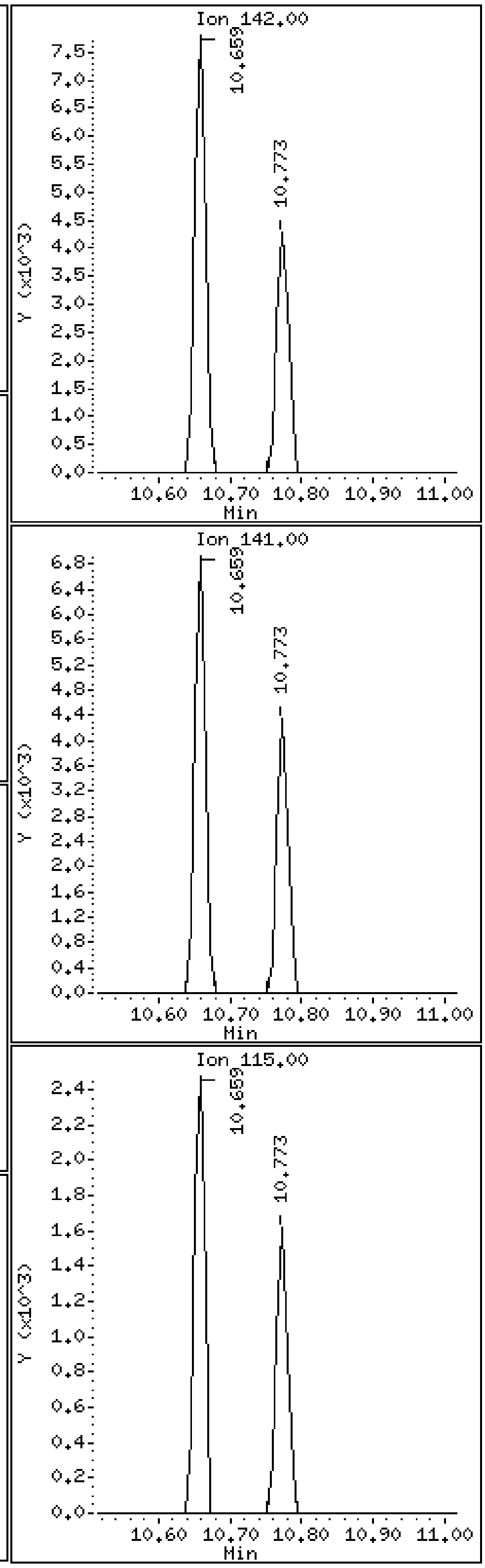
Column diameter: 0.18

103 1-Methylnaphthalene

Concentration: 42.6 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a21.d

Date : 23-JAN-2023 19:36

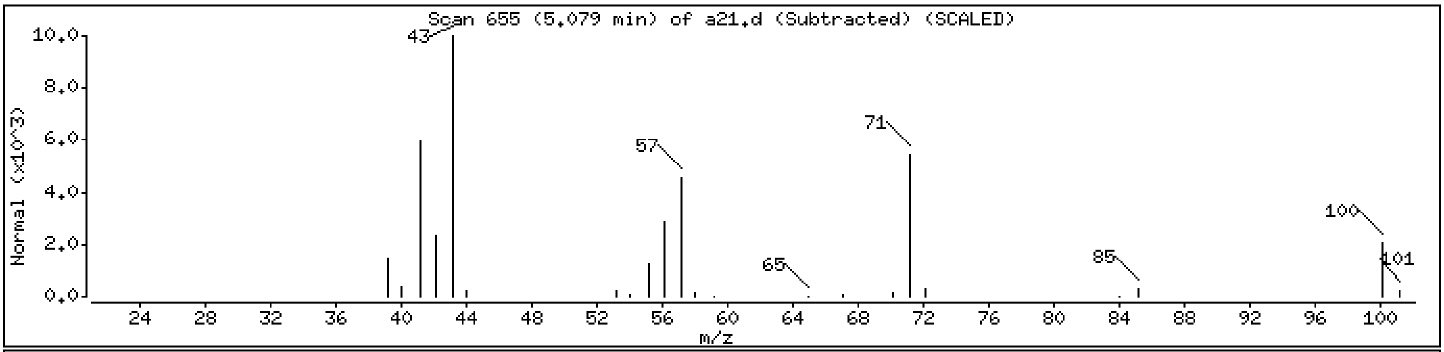
Client ID: LA2268MS Instrument: 50mvda.i

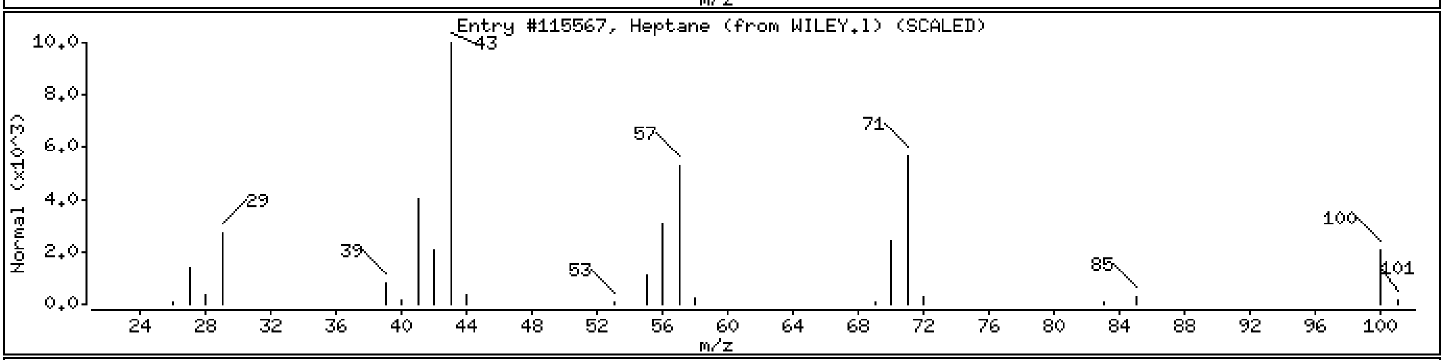
Sample Info: 3287469,336256:5

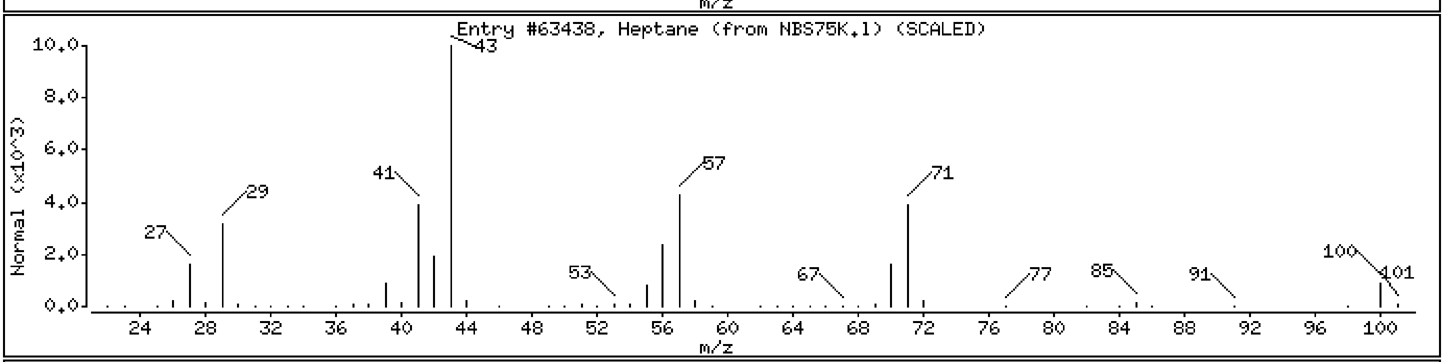
Purge Volume: 5.0 Operator: tkg

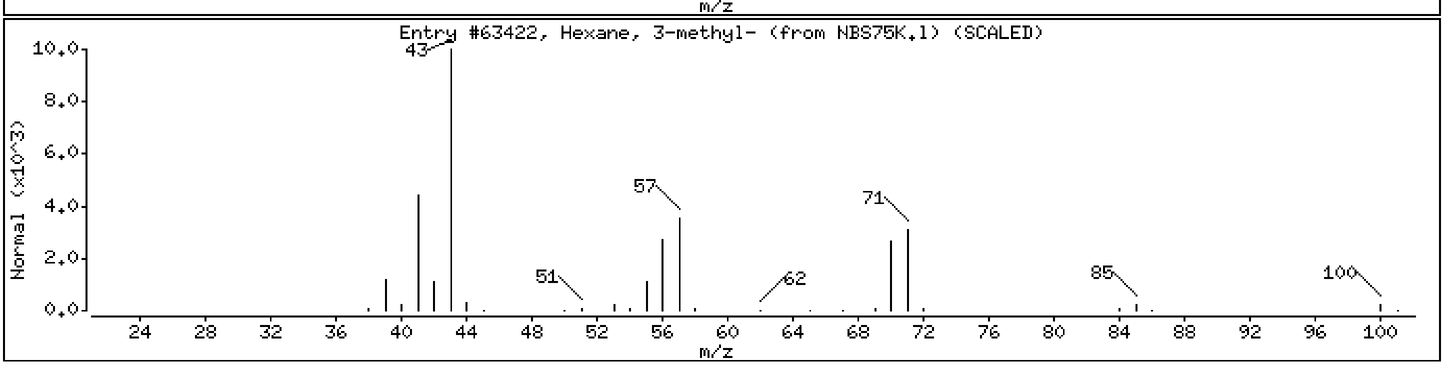
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptane	142-82-5	WILEY.l	115567	90	C7H16	100
Heptane	142-82-5	NBS75K.l	63438	78	C7H16	100
Hexane, 3-methyl-	589-34-4	NBS75K.l	63422	50	C7H16	100









Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a21.d
Injection Date: 23-JAN-2023 19:36
Instrument: 50mvda.i
Lab Sample ID: 3287469
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

MSD

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received: 01/18/2023 16:35
Matrix: Water SDG No.: 50335726
Date Extracted: 01/23/2023 20:03
Lab Sample ID: 3287470
Date Analyzed: 01/23/2023 20:03
Lab File ID: A012323.B\A22.D
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1
Instrument: 50MVDA Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	211	
107-02-8	Acrolein	899	
107-13-1	Acrylonitrile	238	
71-43-2	Benzene	48.4	
108-86-1	Bromobenzene	45.8	
74-97-5	Bromochloromethane	48.7	
75-27-4	Bromodichloromethane	53.4	
75-25-2	Bromoform	50.7	
74-83-9	Bromomethane	25.8	
78-93-3	2-Butanone (MEK)	227	
104-51-8	n-Butylbenzene	38.7	
135-98-8	sec-Butylbenzene	43.4	
98-06-6	tert-Butylbenzene	40.4	
75-15-0	Carbon disulfide	46.9	
56-23-5	Carbon tetrachloride	59.8	
108-90-7	Chlorobenzene	49.3	
75-00-3	Chloroethane	47.4	
67-66-3	Chloroform	49.7	
74-87-3	Chloromethane	42.3	
95-49-8	2-Chlorotoluene	41.3	
106-43-4	4-Chlorotoluene	46.7	
124-48-1	Dibromochloromethane	54.0	
106-93-4	1,2-Dibromoethane (EDB)	48.1	
74-95-3	Dibromomethane	52.9	
95-50-1	1,2-Dichlorobenzene	49.3	
541-73-1	1,3-Dichlorobenzene	46.8	
106-46-7	1,4-Dichlorobenzene	46.6	
110-57-6	trans-1,4-Dichloro-2-butene	42.9	
75-71-8	Dichlorodifluoromethane	16.5	
75-34-3	1,1-Dichloroethane	50.1	
107-06-2	1,2-Dichloroethane	51.5	
75-35-4	1,1-Dichloroethene	54.7	
156-59-2	cis-1,2-Dichloroethene	1230	E
156-60-5	trans-1,2-Dichloroethene	58.7	
78-87-5	1,2-Dichloropropane	47.7	
142-28-9	1,3-Dichloropropane	46.0	
594-20-7	2,2-Dichloropropane	50.4	

02/02/2023 7:02

SAMPLE NO.

MSD

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana | Contract: LA2265-LA2270

Date Received: 01/18/2023 16:35 | Matrix: Water | SDG No.: 50335726

Date Extracted: 01/23/2023 20:03 | Lab Sample ID: 3287470

Date Analyzed: 01/23/2023 20:03 | Lab File ID: A012323.B\A22.D

Initial wt/vol: 5 mL | Final wt/vol: 5 mL | Dilution: 1 | Instrument: 50MVDA | Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
563-58-6	1,1-Dichloropropene	52.7	
10061-01-5	cis-1,3-Dichloropropene	46.7	
10061-02-6	trans-1,3-Dichloropropene	45.0	
100-41-4	Ethylbenzene	48.6	
97-63-2	Ethyl methacrylate	43.8	
87-68-3	Hexachloro-1,3-butadiene	51.2	
110-54-3	n-Hexane	36.7	
591-78-6	2-Hexanone	212	
74-88-4	Iodomethane	76.1	
98-82-8	Isopropylbenzene (Cumene)	48.5	
99-87-6	p-Isopropyltoluene	44.2	
75-09-2	Methylene Chloride	49.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	218	
1634-04-4	Methyl-tert-butyl ether	49.4	
91-20-3	Naphthalene	46.4	
103-65-1	n-Propylbenzene	40.7	
100-42-5	Styrene	48.2	
630-20-6	1,1,1,2-Tetrachloroethane	52.8	
79-34-5	1,1,2,2-Tetrachloroethane	40.5	
127-18-4	Tetrachloroethene	54.0	
108-88-3	Toluene	44.8	
87-61-6	1,2,3-Trichlorobenzene	48.9	
120-82-1	1,2,4-Trichlorobenzene	45.3	
71-55-6	1,1,1-Trichloroethane	55.3	
79-00-5	1,1,2-Trichloroethane	45.3	
79-01-6	Trichloroethene	52.0	
75-69-4	Trichlorofluoromethane	51.6	
96-18-4	1,2,3-Trichloropropane	45.0	
95-63-6	1,2,4-Trimethylbenzene	43.1	
108-67-8	1,3,5-Trimethylbenzene	42.8	
108-05-4	Vinyl acetate	187	
75-01-4	Vinyl chloride	95.7	
1330-20-7	Xylene (Total)	147	

02/02/2023 7:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d
Lab Smp Id: 3287470 Client Smp ID: LA2268MSD
Inj Date : 23-JAN-2023 20:03
Operator : tkg Inst ID: 50mvda.i
Smp Info : 3287470,336256:5
Misc Info : 166195
Comment :
Method : \\192.168.50.6\chem\50mvda.i\a012323.b\-a8260_a_c.m
Meth Date : 24-Jan-2023 06:51 50mvda.i Quant Type: ISTD
Cal Date : 20-JAN-2023 14:03 Cal File: e01.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: RC10A
Processing Host: 50-VOA-TKG

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	1.217	1.217	(0.238)	44921	16.5155	16.5(Q)	
2 Chloromethane	50	1.404	1.404	(0.275)	122321	42.2666	42.3	
3 Vinyl Chloride	62	1.396	1.396	(0.274)	267718	95.7204	95.7(R)	
4 Bromomethane	94	1.590	1.583	(0.311)	45955	25.7519	25.8(Q)	
5 Chloroethane	64	1.647	1.647	(0.323)	77542	47.3836	47.4	
6 Trichlorofluoromethane	101	1.798	1.798	(0.352)	172404	51.5992	51.6	
7 Diethyl ether	74	1.977	1.977	(0.387)	66268	46.2069	46.2	
8 Acrolein	56	2.084	2.084	(0.408)	593712	898.776	899	
9 1,1,2trichlorotrifluoroethane	101	2.127	2.127	(0.417)	116052	52.6910	52.7	
10 1,1-Dichloroethene	96	2.141	2.141	(0.419)	122999	54.7272	54.7	
11 Acetone	43	2.184	2.192	(0.428)	280402	211.169	211	
12 Iodomethane	142	2.263	2.263	(0.443)	160023	76.0735	76.1	
13 Carbon Disulfide	76	2.313	2.313	(0.453)	317176	46.8676	46.9	
14 Acetonitrile	39	2.406	2.406	(0.471)	134834	250.393	250	
15 allyl chloride	41	2.406	2.406	(0.471)	258503	42.2476	42.2	
16 Methyl Acetate	43	2.414	2.414	(0.473)	625376	208.007	208	
17 Methylene Chloride	84	2.507	2.507	(0.491)	114266	49.7655	49.8	
18 tert-Butyl Alcohol	59	2.578	2.586	(0.505)	105128	228.634	229	
19 Acrylonitrile	53	2.722	2.722	(0.533)	337451	237.788	238	
20 Methyl-tert-butyl ether	73	2.714	2.714	(0.532)	333038	49.4062	49.4	
21 1,2-Dichloroethene (trans)	96	2.722	2.722	(0.533)	152422	58.6695	58.7	
22 n-Hexane	57	2.951	2.944	(0.578)	148914	36.7237	36.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
23 1,1-Dichloroethane	63	3.123	3.123	(0.612)	203814	50.1431	50.1	
24 Vinyl Acetate	43	3.166	3.166	(0.620)	1339618	186.824	187	
25 Diisopropyl ether	45	3.158	3.166	(0.619)	403540	47.2198	47.2	
26 chloroprene	53	3.209	3.209	(0.628)	183434	51.5685	51.6	
27 Ethyl-tert-butyl ether	59	3.567	3.567	(0.698)	341293	48.4609	48.5	
28 2,2-Dichloropropane	77	3.767	3.760	(0.738)	164199	50.3705	50.4(Q)	
29 1,2-Dichloroethene (cis)	96	3.775	3.775	(0.739)	3587193	1232.31	1230(R)	
30 2-Butanone	43	3.810	3.810	(0.746)	470340	226.718	227	
31 Ethyl Acetate	88	3.875	3.875	(0.759)	34976	238.481	238(Q)	
32 Propionitrile	54	3.911	3.918	(0.766)	132606	224.847	225	
33 Methacrylonitrile	41	4.083	4.090	(0.799)	741952	222.396	222	
34 Bromochloromethane	49	4.075	4.075	(0.798)	103355	48.6800	48.7	
35 Tetrahydrofuran	42	4.125	4.126	(0.808)	364912	217.929	218	
36 Chloroform	83	4.168	4.169	(0.816)	204506	49.6787	49.7	
$ 37 Dibromofluoromethane (S)	113	4.362	4.362	(0.854)	111918	52.8234	52.8	
38 1,1,1-Trichloroethane	97	4.369	4.369	(0.856)	202602	55.2697	55.3	
39 Cyclohexane	56	4.412	4.412	(0.864)	203555	45.5051	45.5	
40 Carbon Tetrachloride	117	4.548	4.548	(0.891)	200177	59.8105	59.8	
41 1,1-Dichloropropene	75	4.555	4.555	(0.892)	153731	52.6581	52.6	
42 Isobutyl alcohol	43	4.749	4.756	(0.930)	45859	224.624	225	
43 Benzene	78	4.792	4.799	(0.938)	452038	48.4291	48.4	
44 1,2-Dichloroethane	62	4.835	4.835	(0.947)	153881	51.4880	51.5	
45 2,2,4-Trimethylpentane	57	4.863	4.863	(0.952)	268181	40.3689	40.4	
46 tert-Amylmethyl ether	73	4.921	4.921	(0.964)	328987	46.2278	46.2	
* 47 Fluorobenzene	96	5.107	5.107	(1.000)	414775	50.0000		
48 Trichloroethene	95	5.494	5.494	(1.076)	125186	51.9841	52.0	
49 Methylcyclohexane	55	5.673	5.673	(1.111)	146559	41.1386	41.1	
50 1,2-Dichloropropane	63	5.744	5.744	(1.125)	116544	47.6725	47.7	
51 Dibromomethane	93	5.866	5.866	(1.149)	79919	52.8965	52.9	
52 1,4-Dioxane	88	5.902	5.902	(1.156)	4739	316.021	316	
53 Methyl methacrylate	69	5.873	5.881	(1.150)	106967	47.1058	47.1	
54 Bromodichloromethane	83	6.031	6.031	(1.181)	159170	53.4110	53.4	
55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
56 cis-1,3-Dichloropropene	75	6.468	6.468	(0.837)	189090	46.7047	46.7	
57 4-Methyl-2-Pentanone	43	6.625	6.625	(0.857)	1010883	218.450	218	
$ 58 Toluene-d8	98	6.690	6.697	(0.866)	401868	47.0111	47.0	
59 Toluene	91	6.747	6.747	(0.873)	531659	44.7977	44.8	
60 trans-1,3-Dichloropropene	75	6.948	6.948	(0.899)	170041	45.0380	45.0	
61 Ethyl Methacrylate	69	7.019	7.019	(0.908)	169079	43.8387	43.8	
62 1,1,2-Trichloroethane	83	7.084	7.084	(0.917)	86795	45.2727	45.3	
63 Tetrachloroethene	166	7.163	7.163	(0.927)	160442	54.0233	54.0	
64 1,3-Dichloropropane	76	7.206	7.206	(0.932)	173080	46.0196	46.0	
65 2-Hexanone	43	7.270	7.270	(0.941)	788314	212.433	212	
66 Dibromochloromethane	129	7.363	7.363	(0.953)	148106	54.0271	54.0	
67 1,2-Dibromoethane	107	7.435	7.435	(0.962)	121887	48.1345	48.1	
* 68 Chlorobenzene-d5	117	7.729	7.729	(1.000)	325905	50.0000		
69 Chlorobenzene	112	7.750	7.750	(1.003)	358679	49.2556	49.2	
70 1,1,1,2-Tetrachloroethane	131	7.800	7.800	(1.009)	139094	52.8445	52.8	
71 Ethylbenzene	106	7.814	7.815	(1.011)	197375	48.6475	48.6	
72 m&p-Xylene	106	7.886	7.886	(1.020)	488080	98.2209	98.2	
73 o-Xylene	106	8.115	8.115	(1.050)	227422	48.3592	48.4	
74 Styrene	104	8.122	8.123	(1.051)	394921	48.2483	48.2	
75 Bromoform	173	8.237	8.237	(0.916)	115028	50.7455	50.7	
76 Isopropylbenzene	105	8.316	8.316	(1.076)	599429	48.5429	48.5	

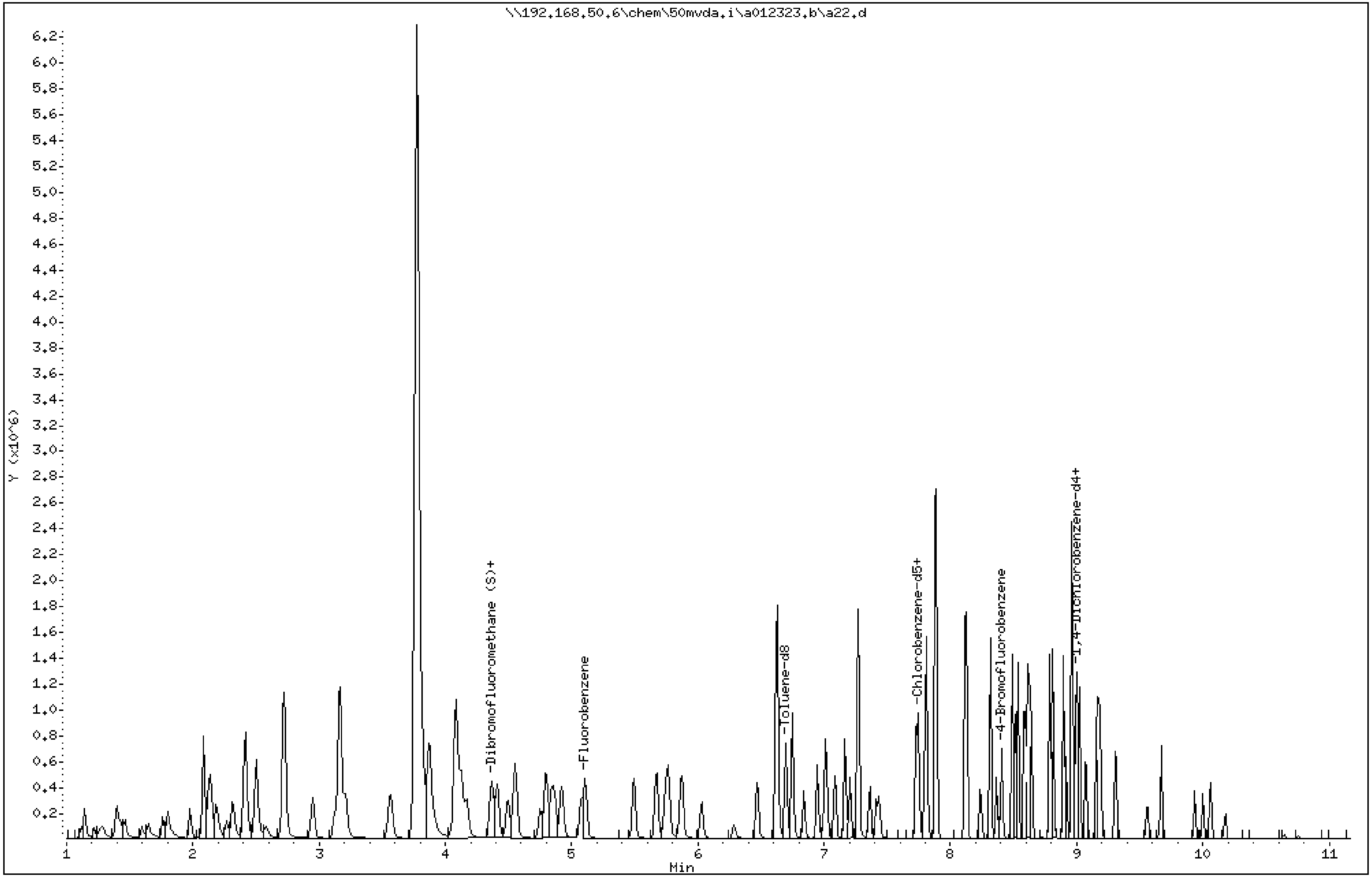
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
$ 77 4-Bromofluorobenzene	95	8.409	8.409	(1.088)	136161	49.8356	49.8	
78 Bromobenzene	77	8.488	8.488	(1.098)	186119	45.8214	45.8	
79 1,1,2,2-Tetrachloroethane	83	8.488	8.488	(0.943)	156280	40.4704	40.5	
80 1,2,3-Trichloropropane	110	8.516	8.517	(0.947)	57247	44.9749	45.0	
81 trans-1,4-Dichloro-2-butene	53	8.516	8.517	(1.102)	55662	42.8597	42.8	
82 n-Propylbenzene	91	8.531	8.538	(0.948)	653859	40.6620	40.7	
83 2-Chlorotoluene	91	8.588	8.588	(0.955)	355017	41.2678	41.3	
84 1,3,5-Trimethylbenzene	105	8.624	8.624	(0.959)	450952	42.8059	42.8	
85 4-Chlorotoluene	126	8.638	8.645	(0.960)	153767	46.7051	46.7	
86 tert-Butylbenzene	119	8.789	8.789	(0.977)	417407	40.3912	40.4	
87 1,2,4-Trimethylbenzene	105	8.810	8.810	(0.979)	454450	43.1174	43.1	
88 sec-Butylbenzene	105	8.896	8.896	(0.989)	555969	43.3959	43.4	
89 1,3-Dichlorobenzene	146	8.961	8.961	(0.996)	264084	46.7506	46.8	
90 p-Isopropyltoluene	119	8.961	8.968	(0.996)	475066	44.1843	44.2	
* 91 1,4-Dichlorobenzene-d4	152	8.996	8.996	(1.000)	173794	50.0000		
92 1,4-Dichlorobenzene	146	9.004	9.011	(1.001)	263794	46.5562	46.6	
93 1,2,3-Trimethylbenzene	105	9.025	9.025	(1.003)	428462	44.2196	44.2	
94 n-Butylbenzene	91	9.161	9.161	(1.018)	338581	38.7081	38.7	
95 1,2-Dichlorobenzene	146	9.190	9.190	(1.021)	237504	49.3492	49.3	
96 Hexachloroethane	201	9.312	9.312	(1.035)	76513	55.9785	56.0	
97 1,2-Dibromo-3-chloropropane	155	9.562	9.562	(1.063)	38879	54.0548	54.0	
98 1,2,4-Trichlorobenzene	180	9.935	9.942	(1.104)	69342	45.2714	45.3	
99 Hexachlorobutadiene	225	9.999	10.006	(1.111)	38514	51.1654	51.2	
100 Naphthalene	128	10.064	10.064	(1.119)	216661	46.3812	46.4	
101 1,2,3-Trichlorobenzene	180	10.178	10.178	(1.131)	41607	48.9480	48.9	
102 2,methyl-naphthalene	142	10.644	10.651	(1.183)	9336	42.7731	42.8	
103 1-Methylnaphthalene	142	10.758	10.766	(1.196)	5802	48.7968	48.8	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d
Date : 23-JAN-2023 20:03
Client ID: LA2268MSD
Sample Info: 3287470,336256:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mvda.i
Operator: tkg
Column diameter: 0.18



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

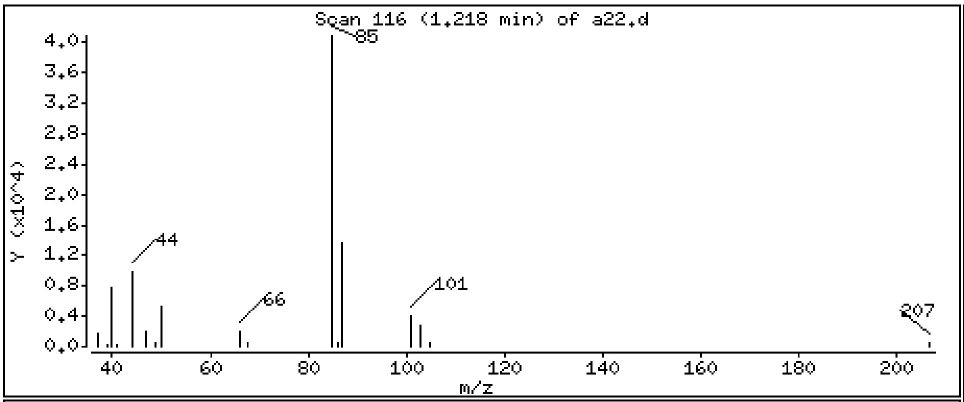
Column phase: DB-624

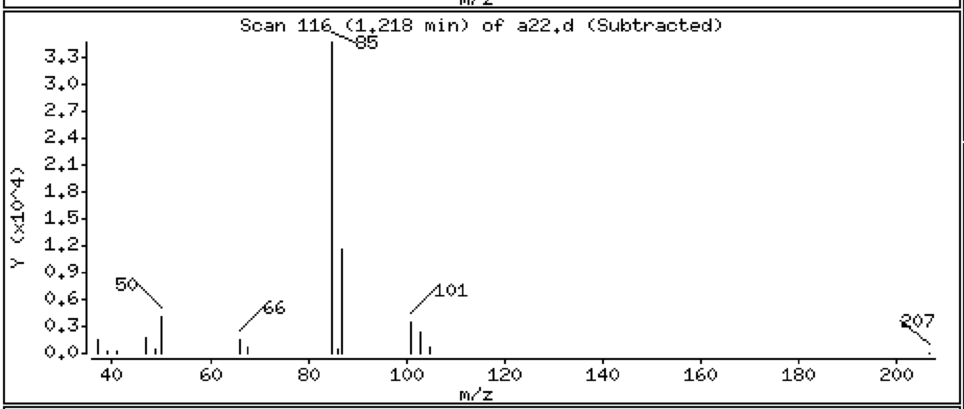
Column diameter: 0.18

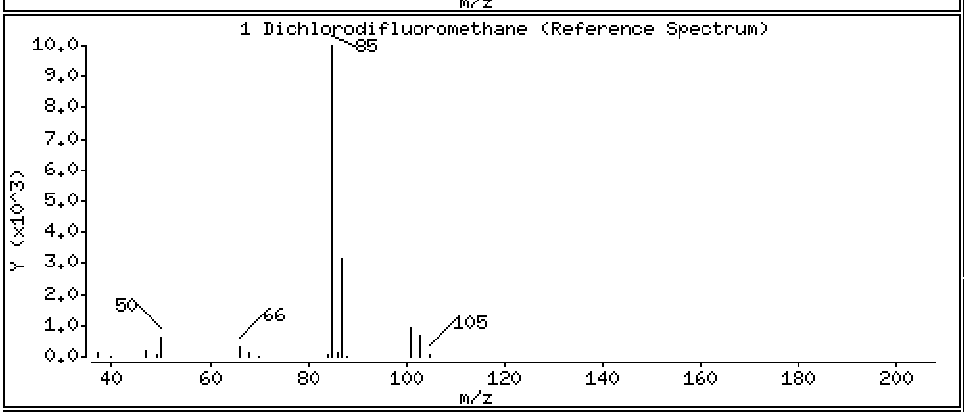
1 Dichlorodifluoromethane

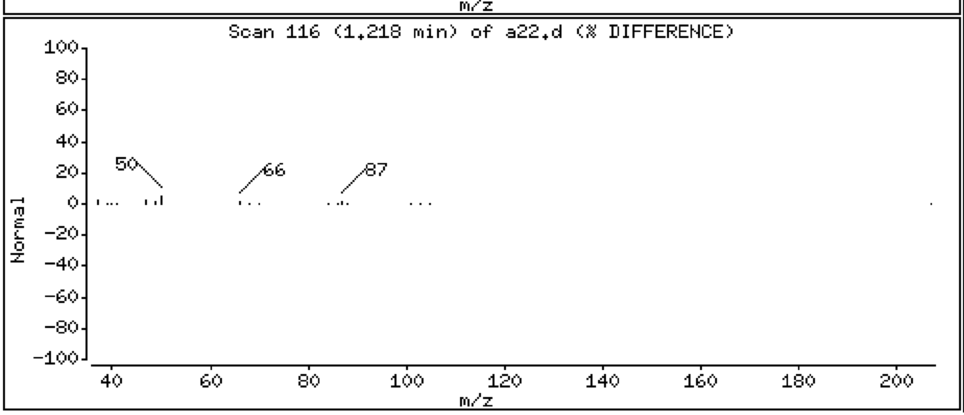
Concentration: 16.5 ppb

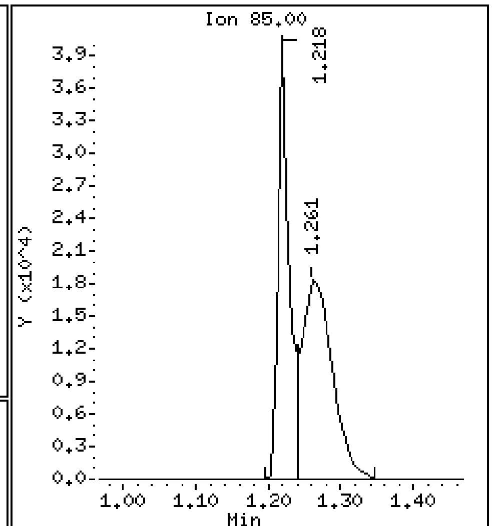
Review Code:

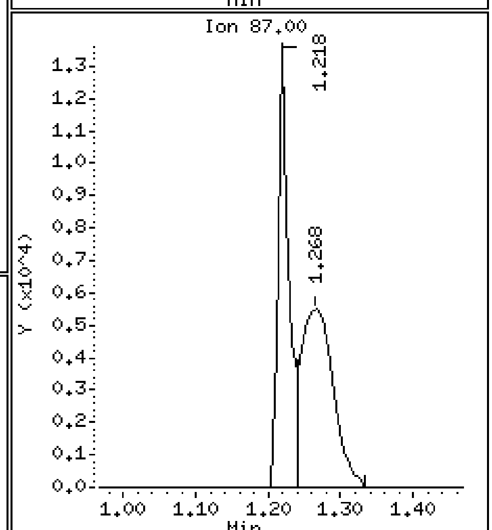


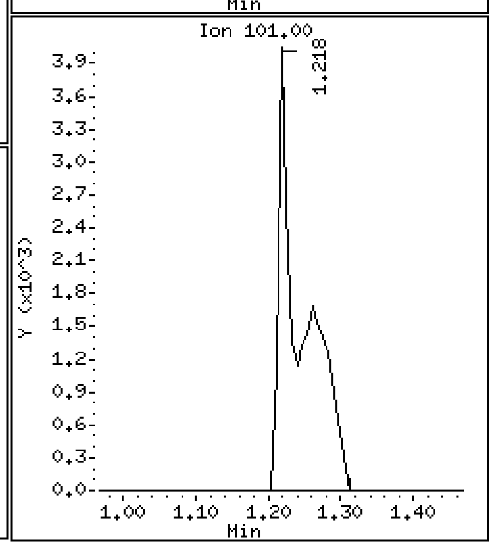












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

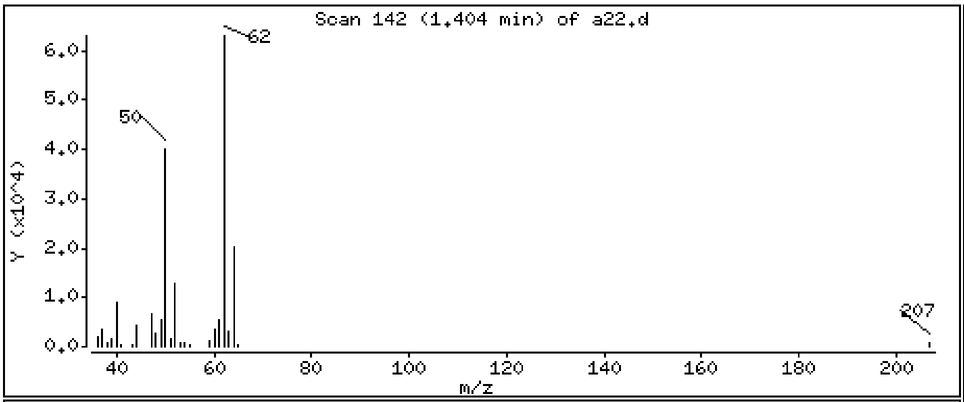
Column phase: DB-624

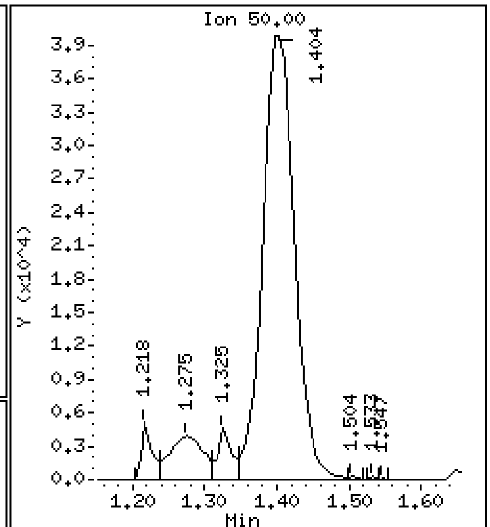
Column diameter: 0.18

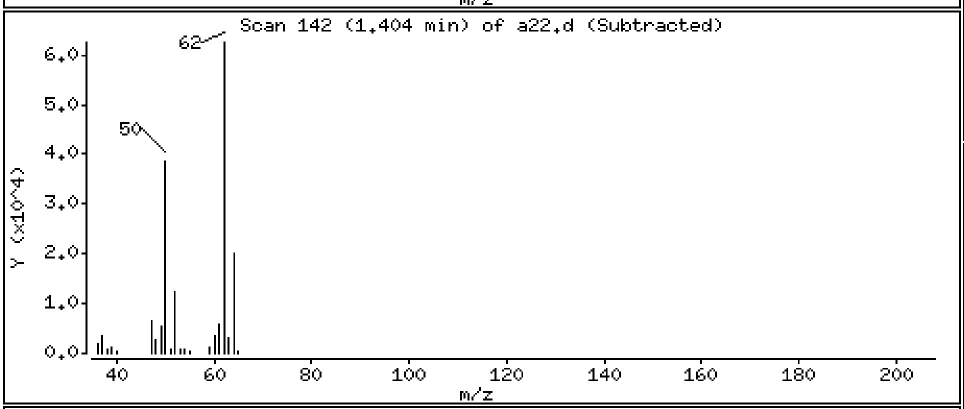
2 Chloromethane

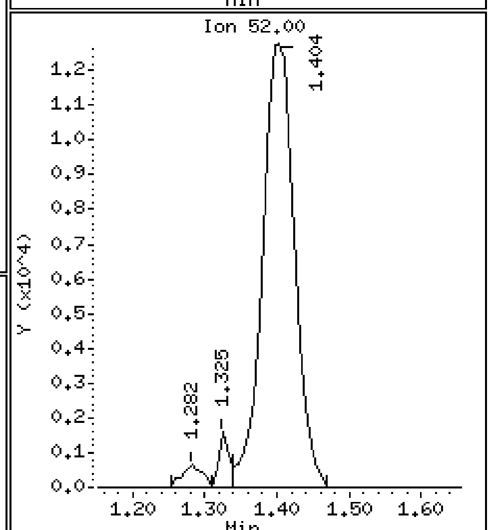
Concentration: 42.3 ppb

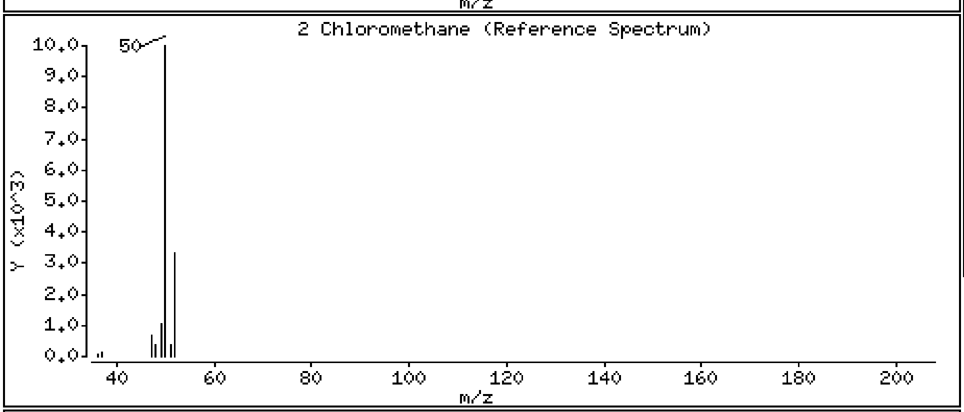
Review Code:

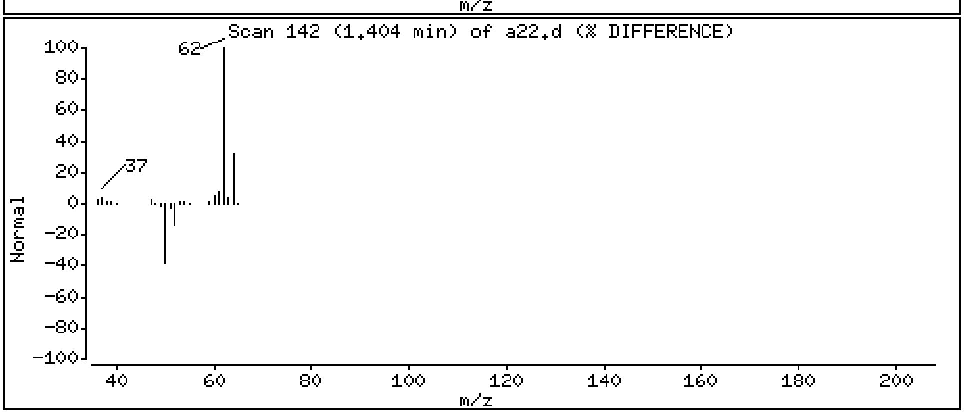












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

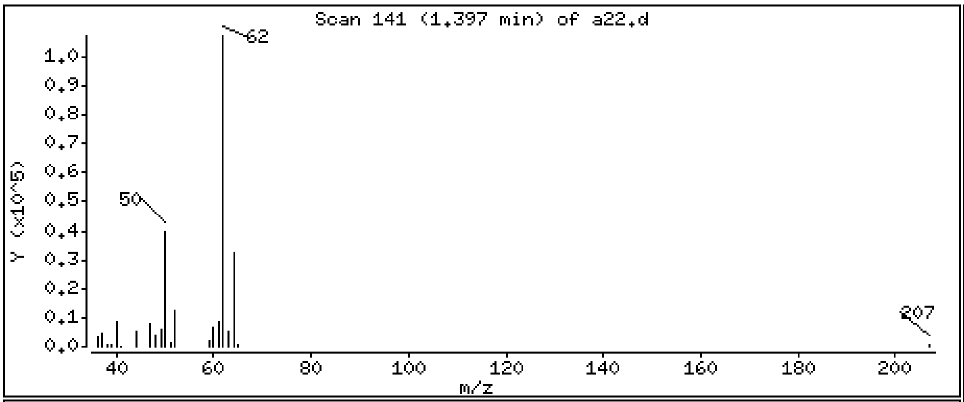
Column phase: DB-624

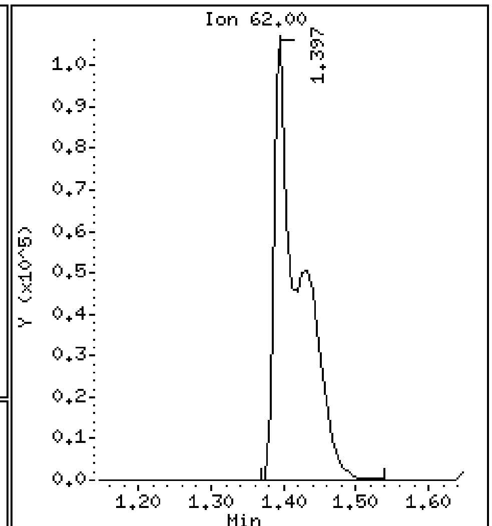
Column diameter: 0.18

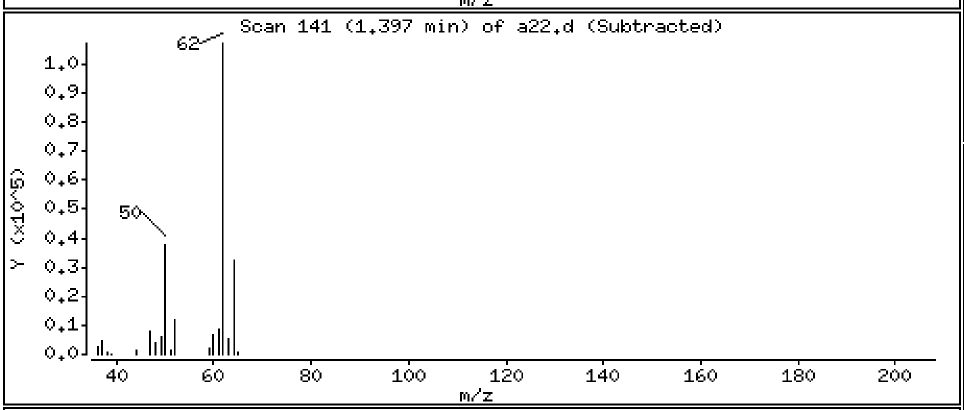
3 Vinyl Chloride

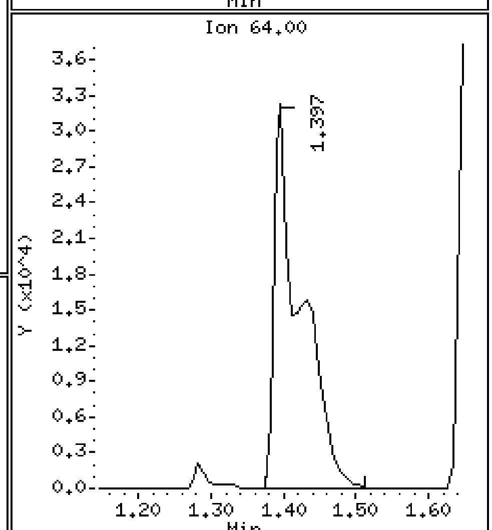
Concentration: 95.7 ppb

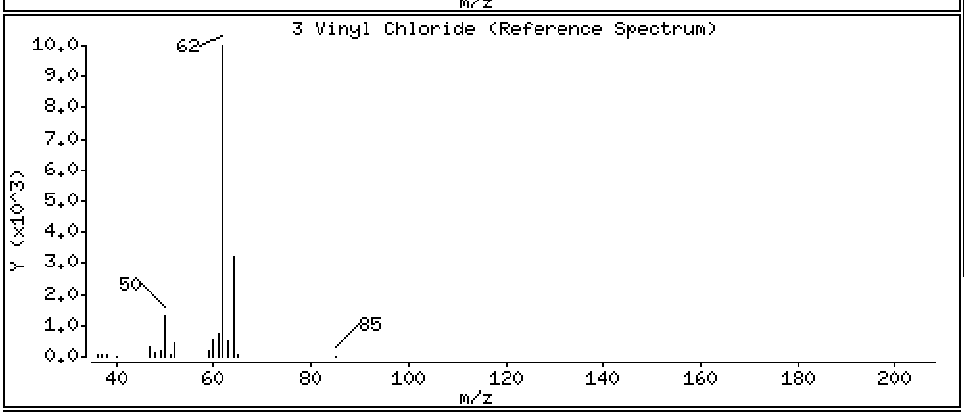
Review Code:

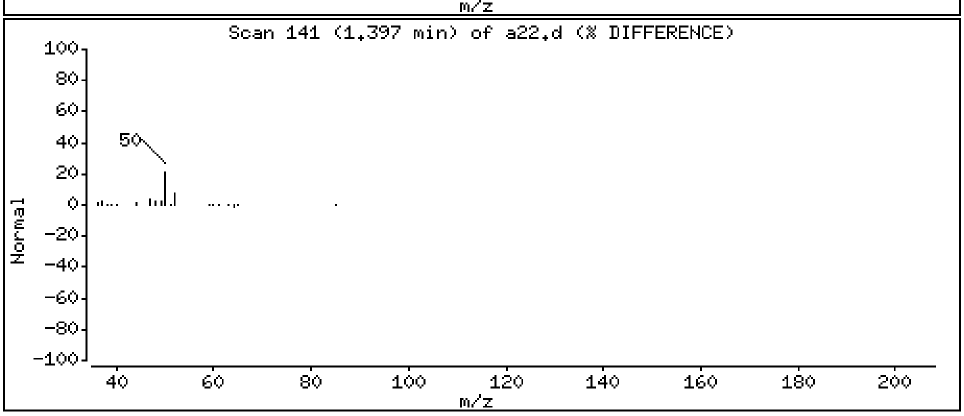












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

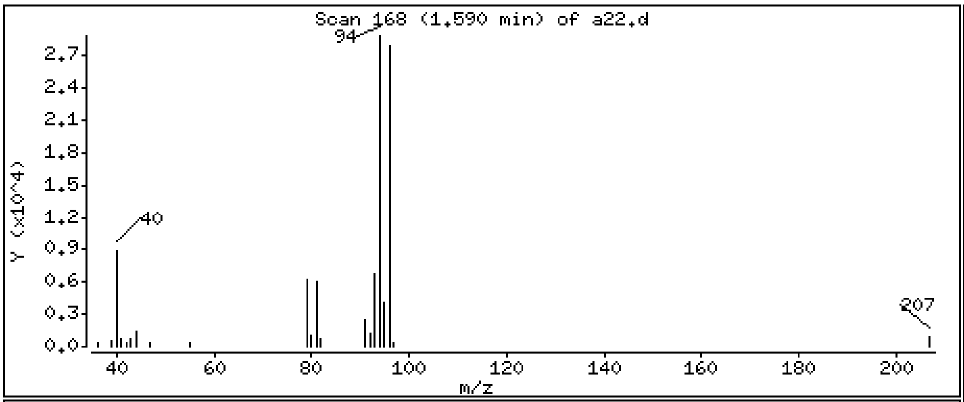
Column phase: DB-624

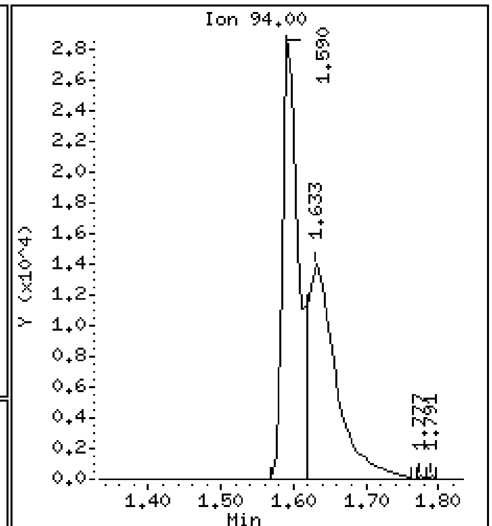
Column diameter: 0.18

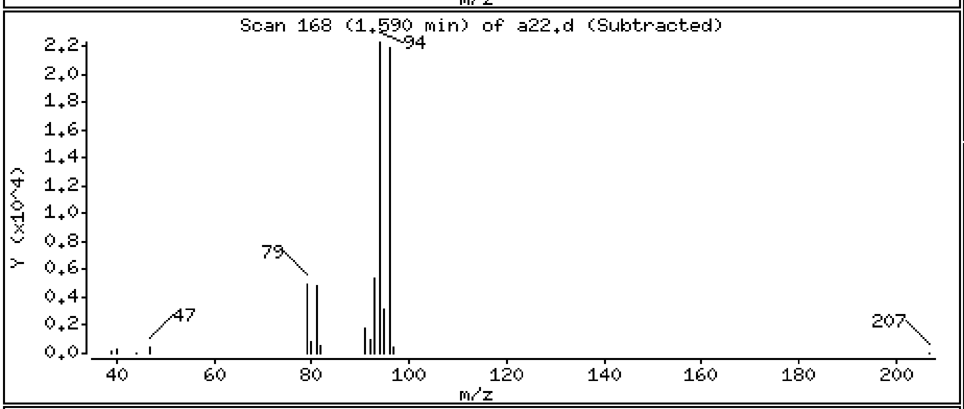
4 Bromomethane

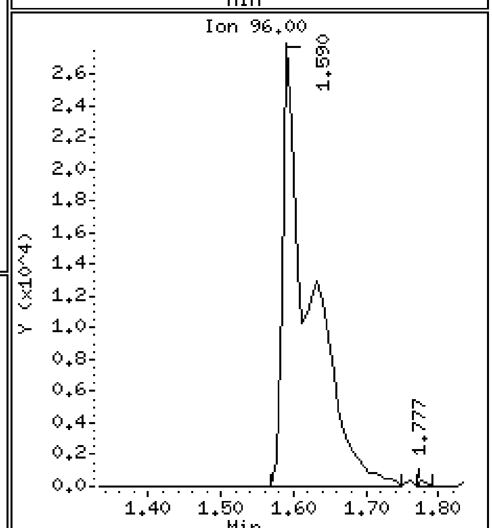
Concentration: 25.8 ppb

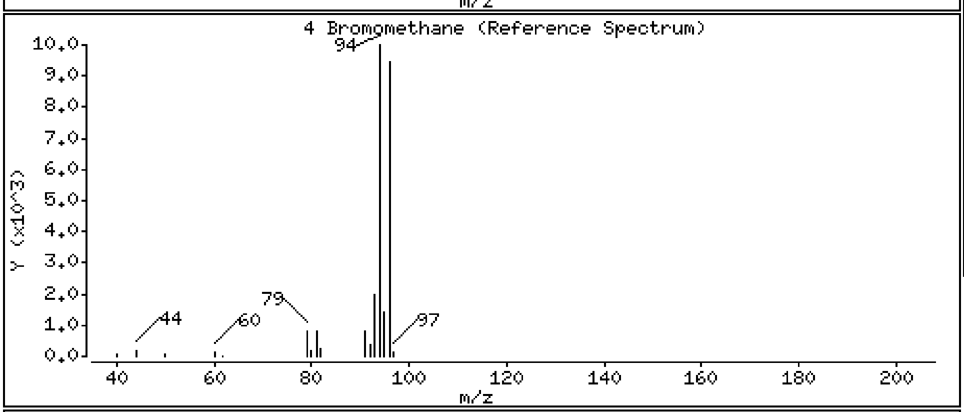
Review Code:

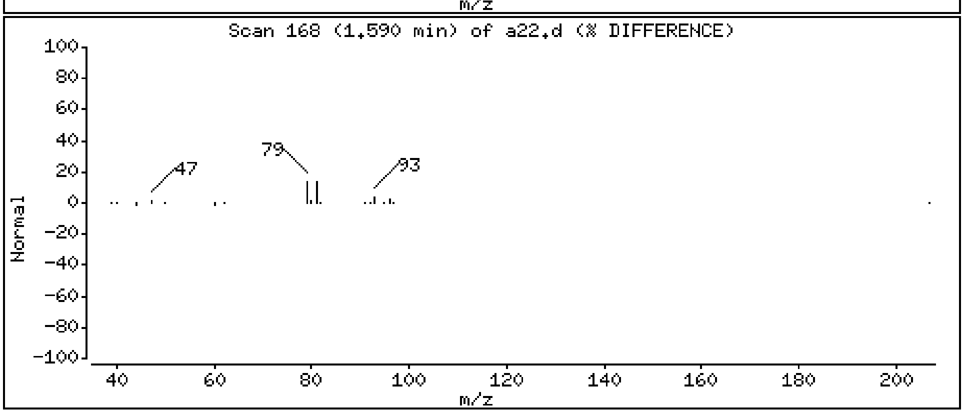












Date : 23-JAN-2023 20:03

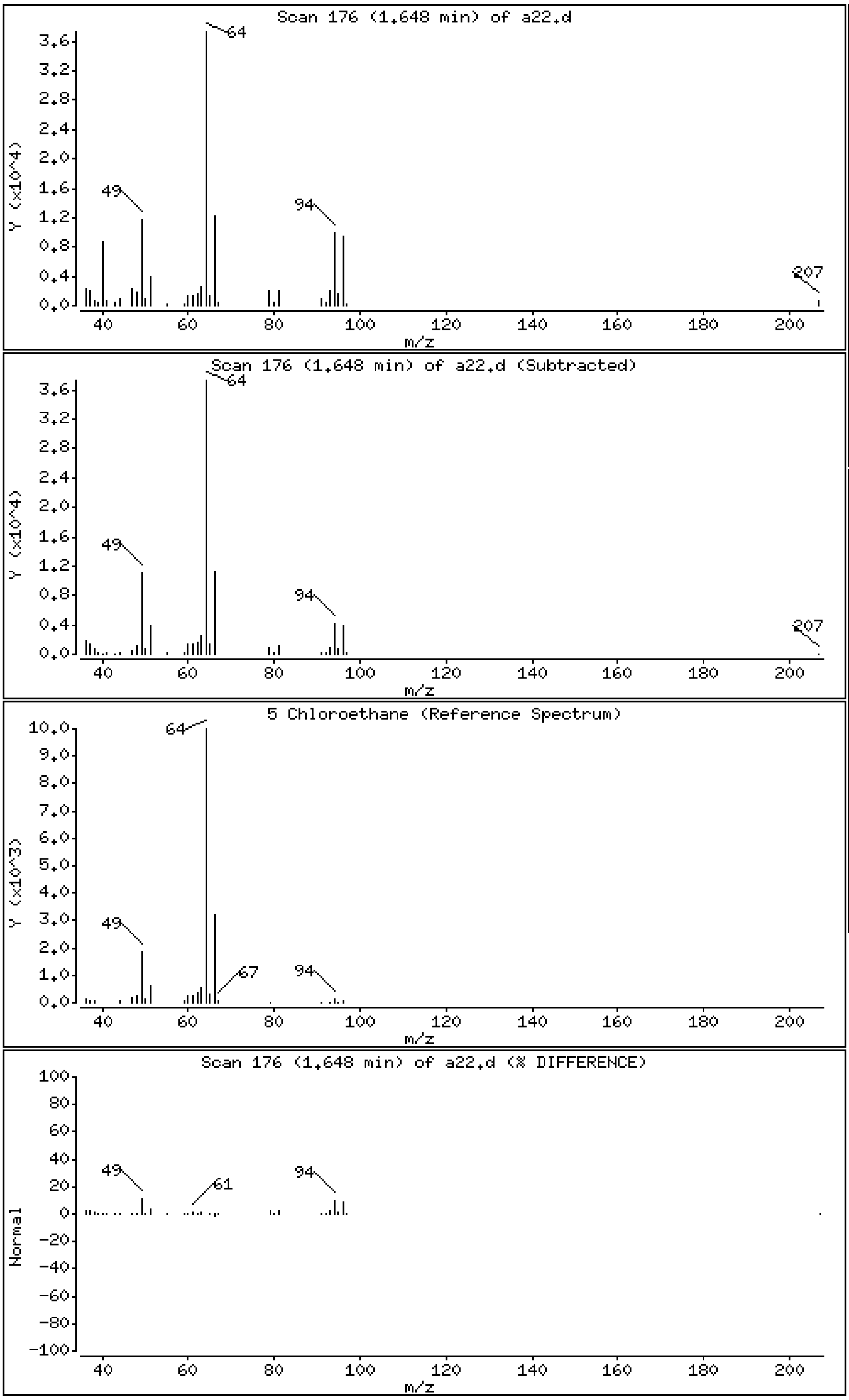
Client ID: LA2268MSD Instrument: 50mvda.i

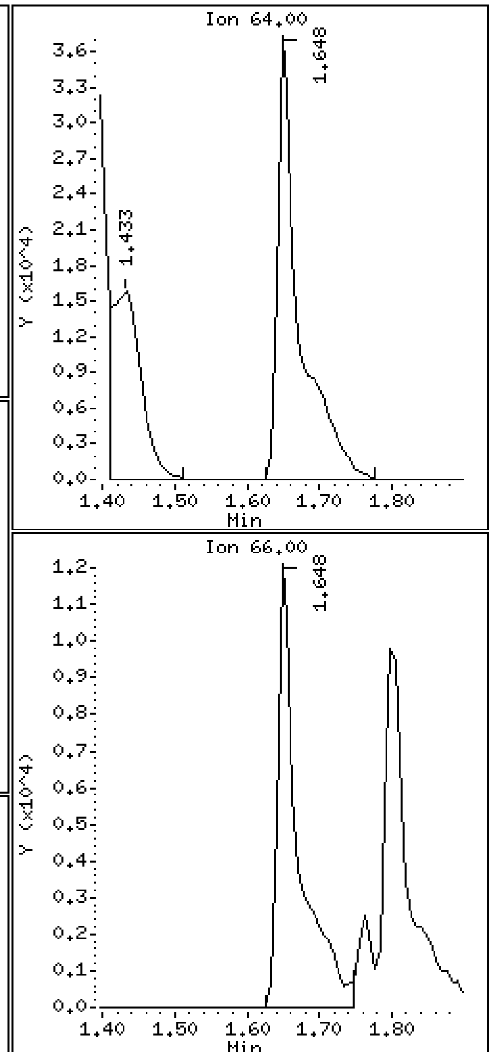
Sample Info: 3287470,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

5 Chloroethane Concentration: 47.4 ppb Review Code:





Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d Page 10

Date : 23-JAN-2023 20:03

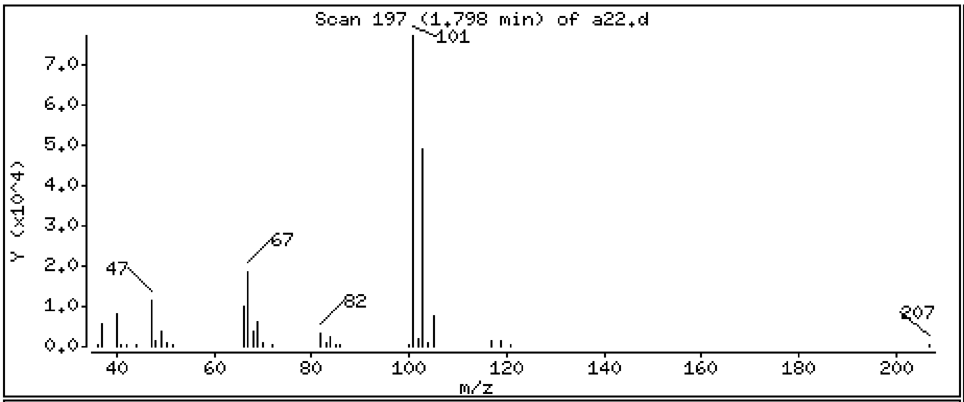
Client ID: LA2268MSD Instrument: 50mvda.i

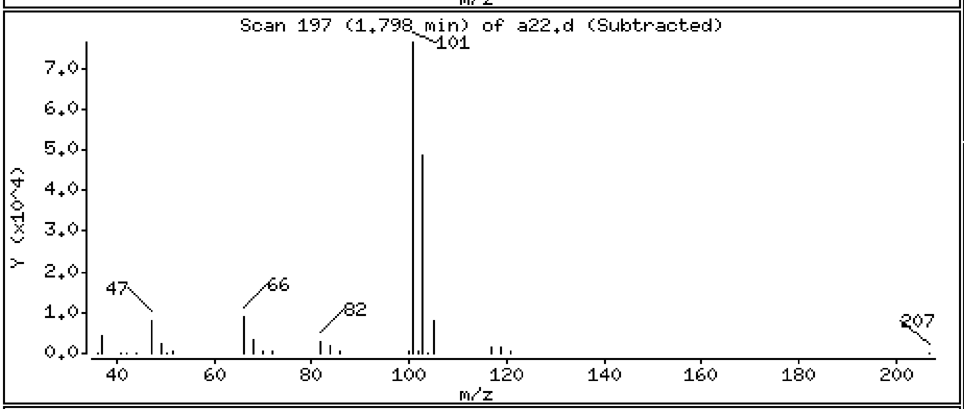
Sample Info: 3287470,336256:5

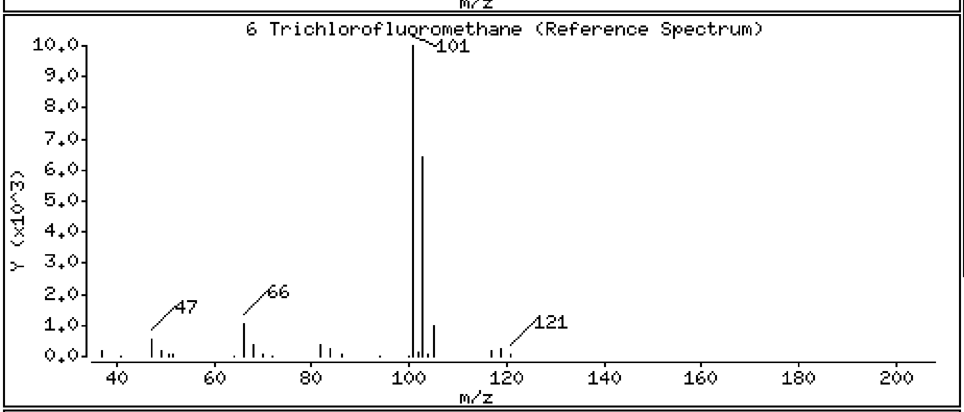
Purge Volume: 5.0 Operator: tkg

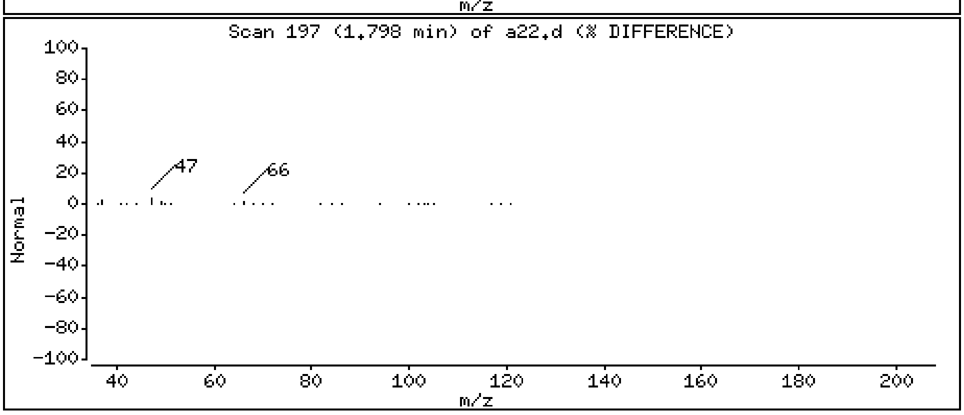
Column phase: DB-624 Column diameter: 0.18

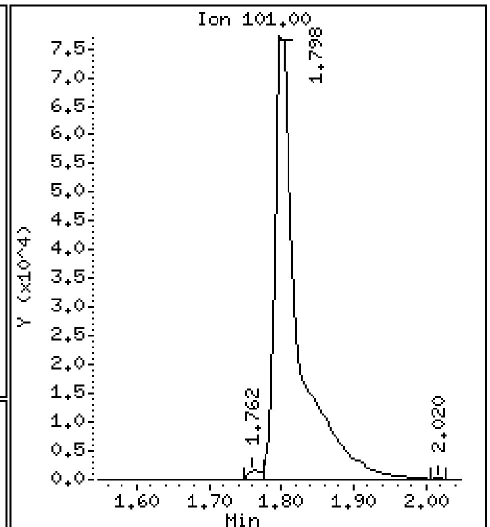
6 Trichlorofluoromethane Concentration: 51.6 ppb Review Code:

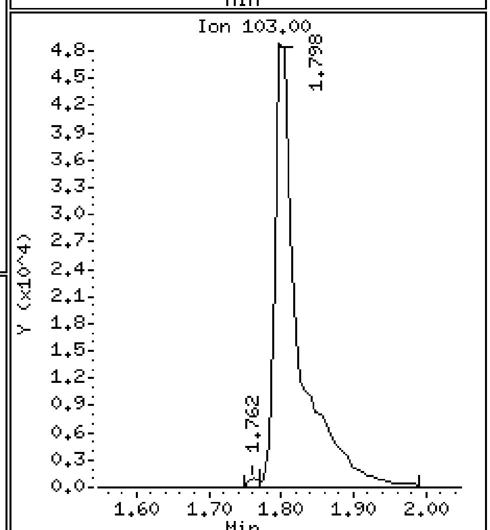












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

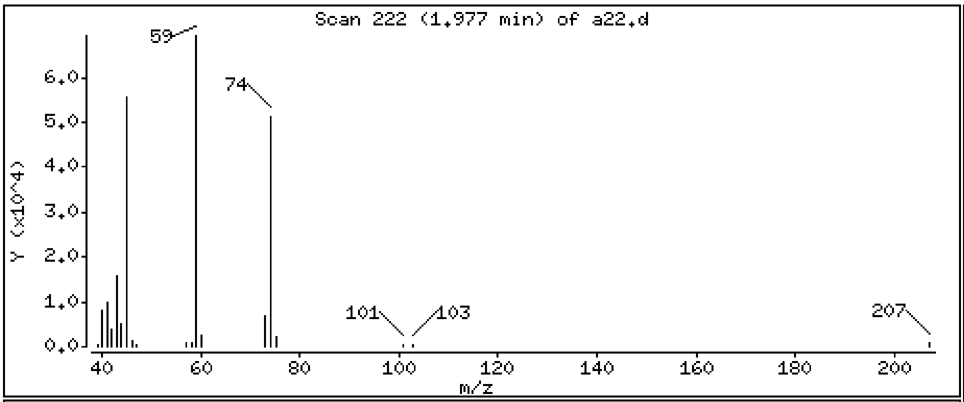
Column phase: DB-624

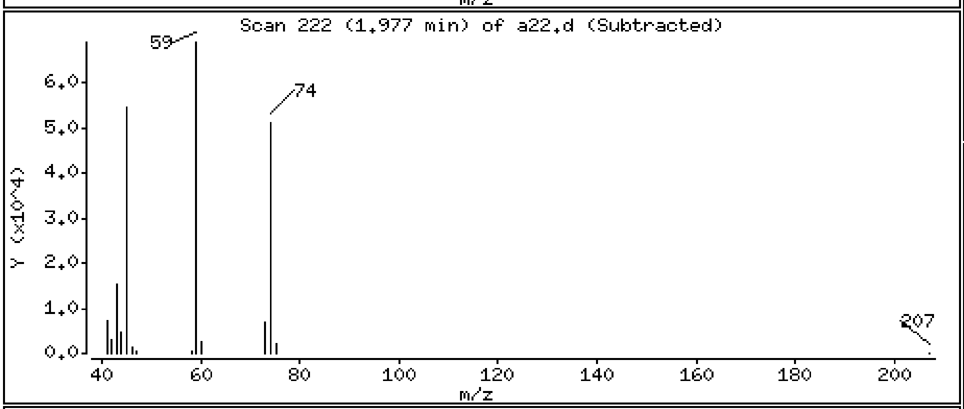
Column diameter: 0.18

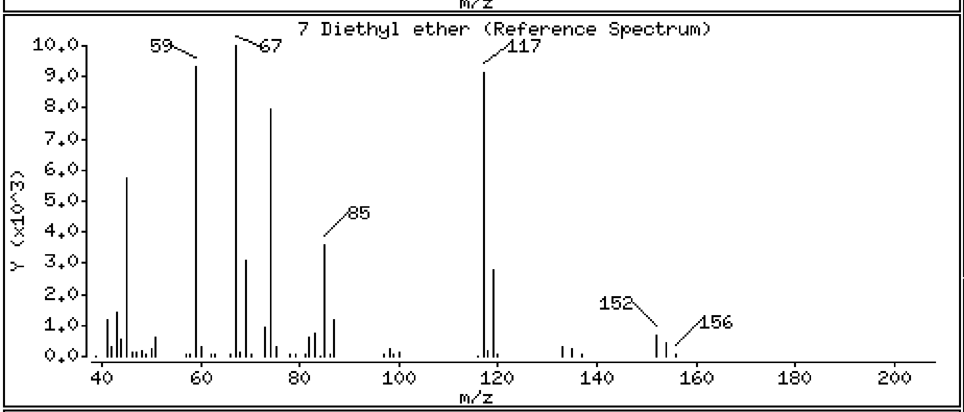
7 Diethyl ether

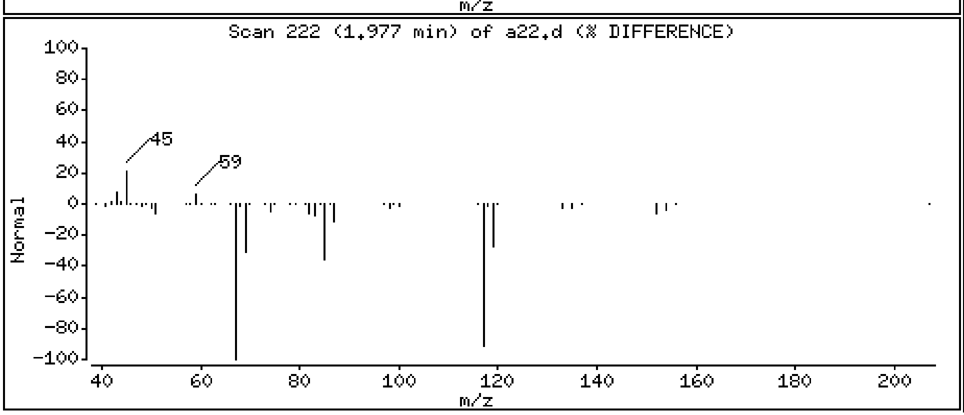
Concentration: 46.2 ppb

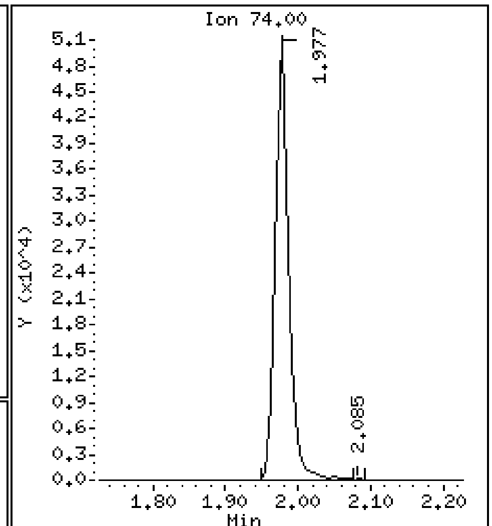
Review Code:

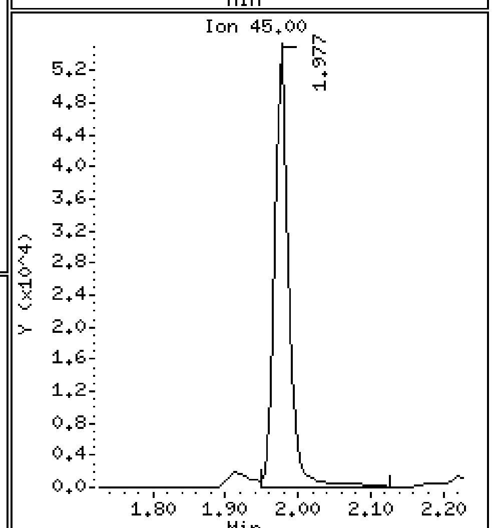


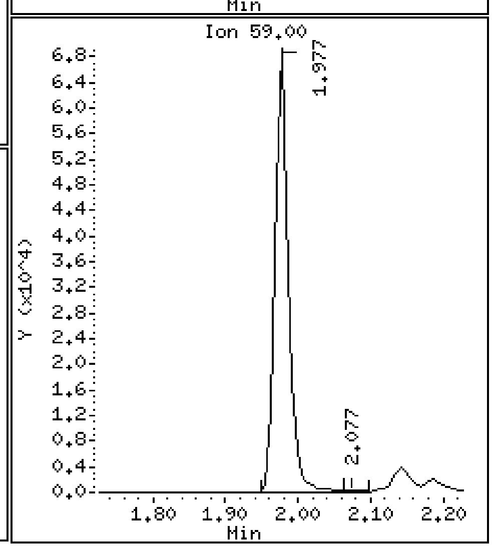












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

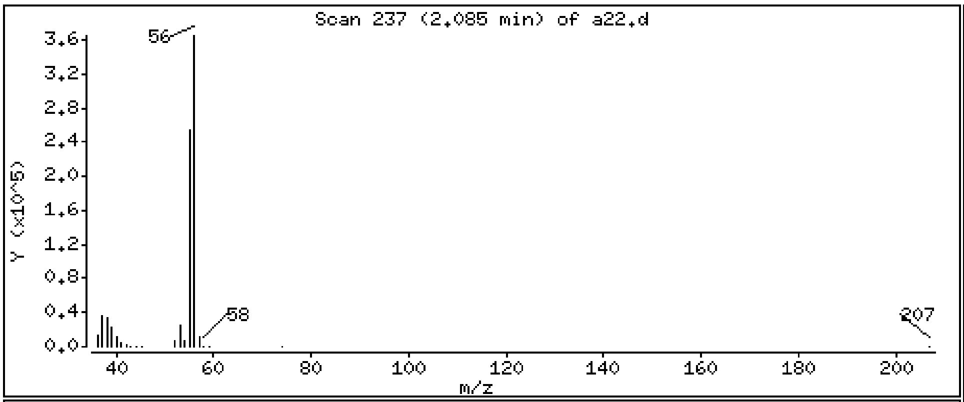
Column phase: DB-624

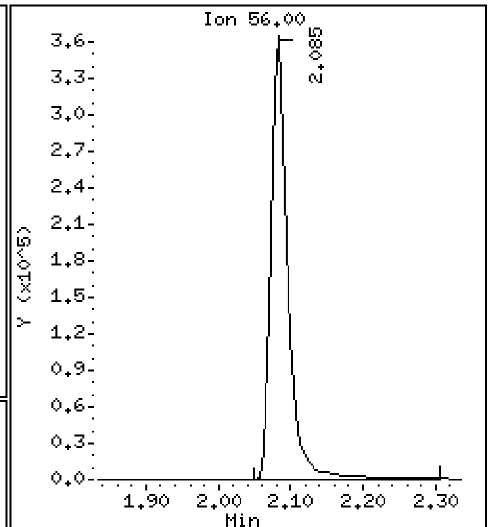
Column diameter: 0.18

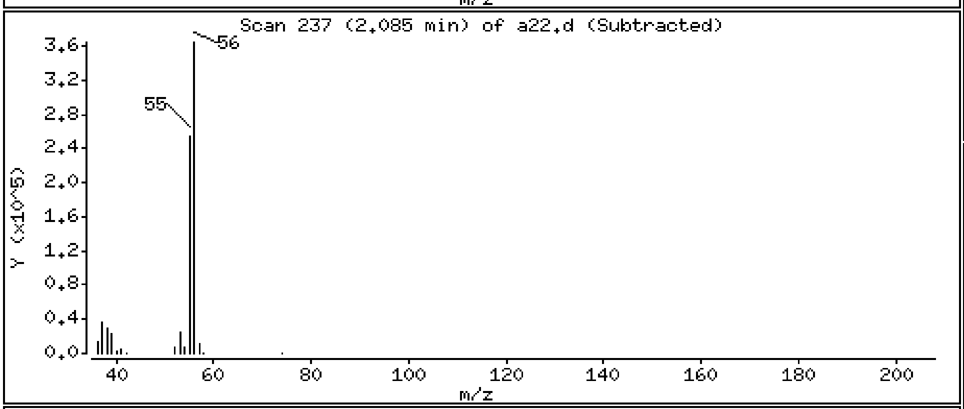
8 Acrolein

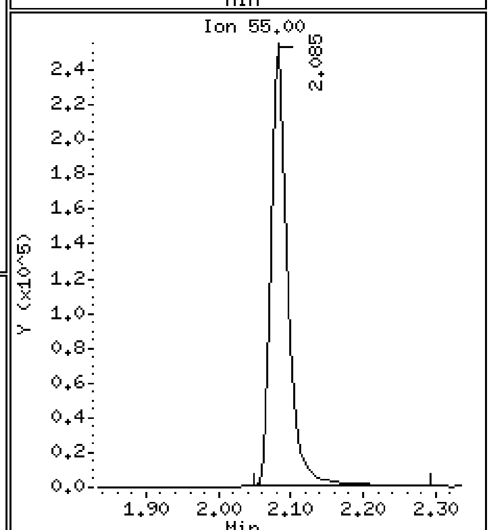
Concentration: 899 ppb

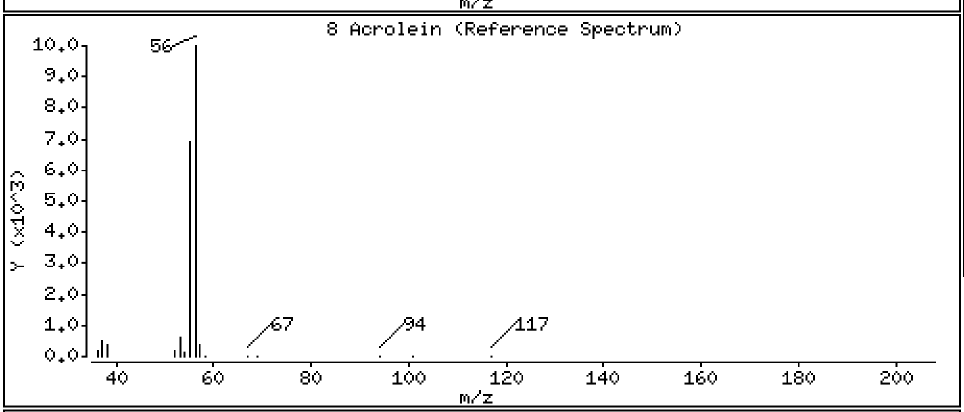
Review Code:

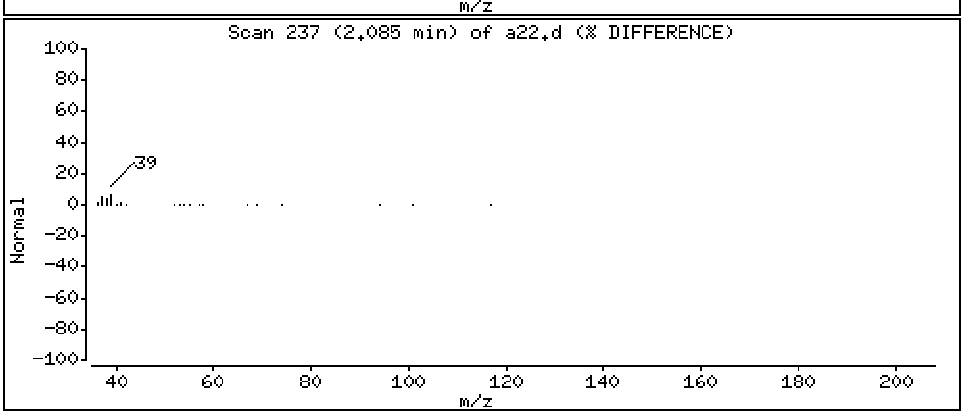












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

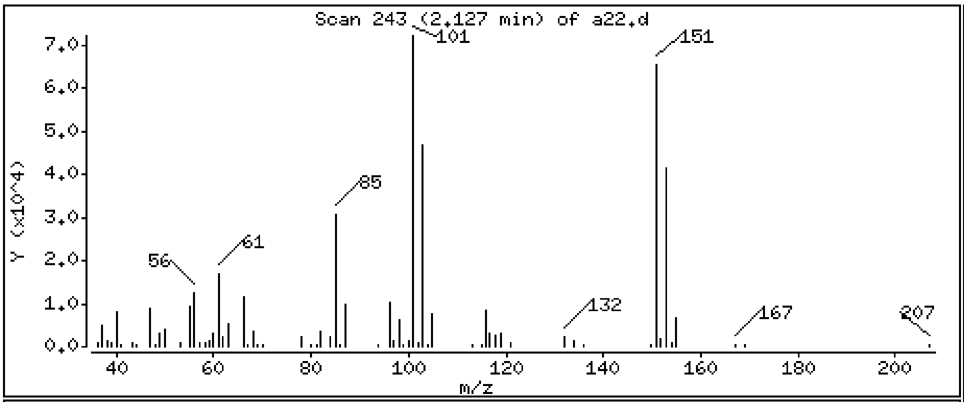
Column phase: DB-624

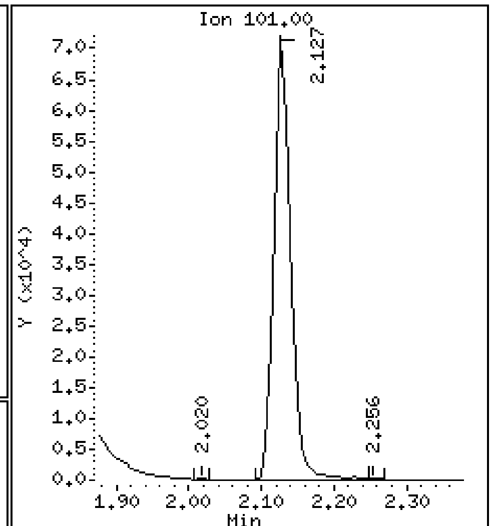
Column diameter: 0.18

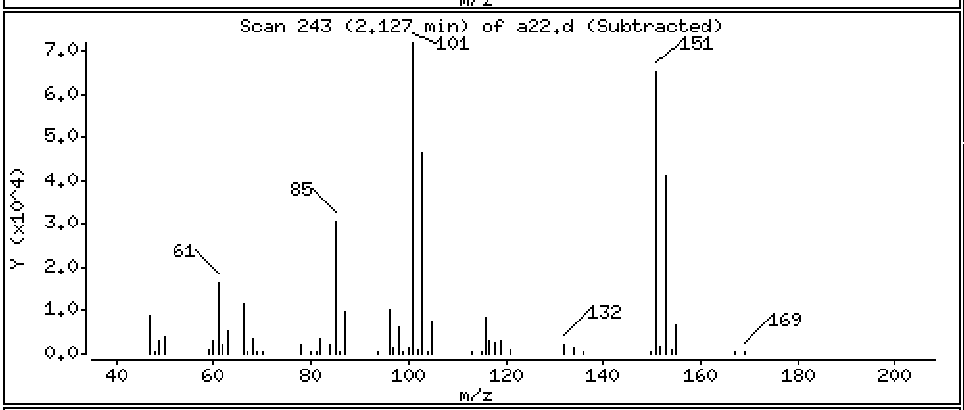
9 1,1,2trichlorotrifluoroethane

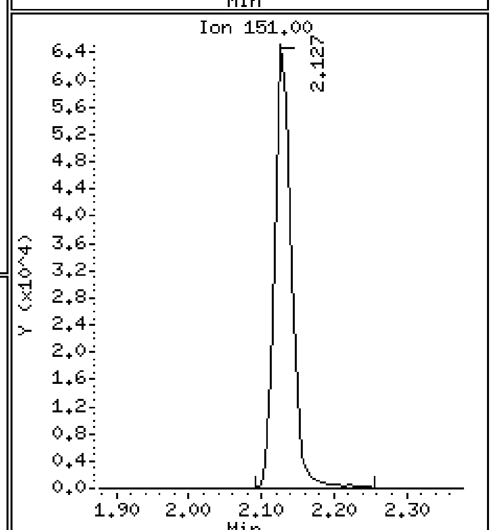
Concentration: 52.7 ppb

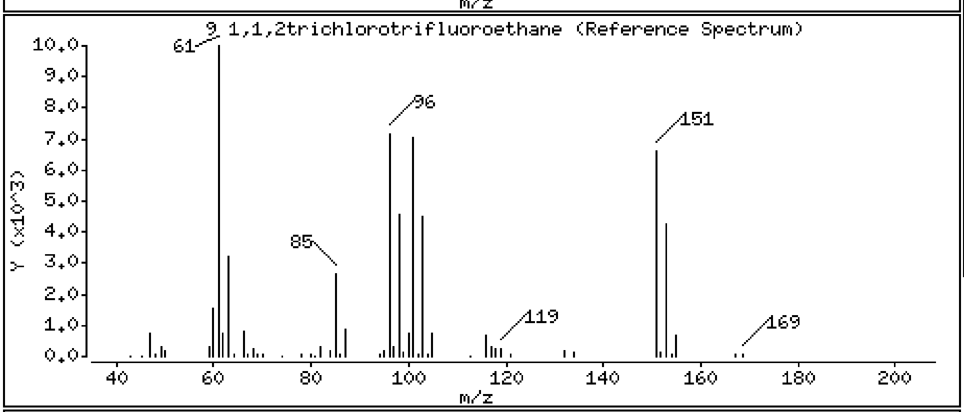
Review Code:

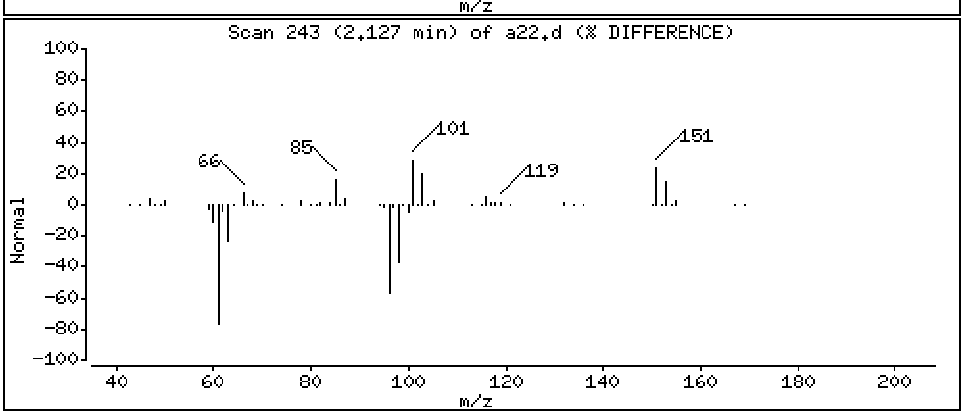












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

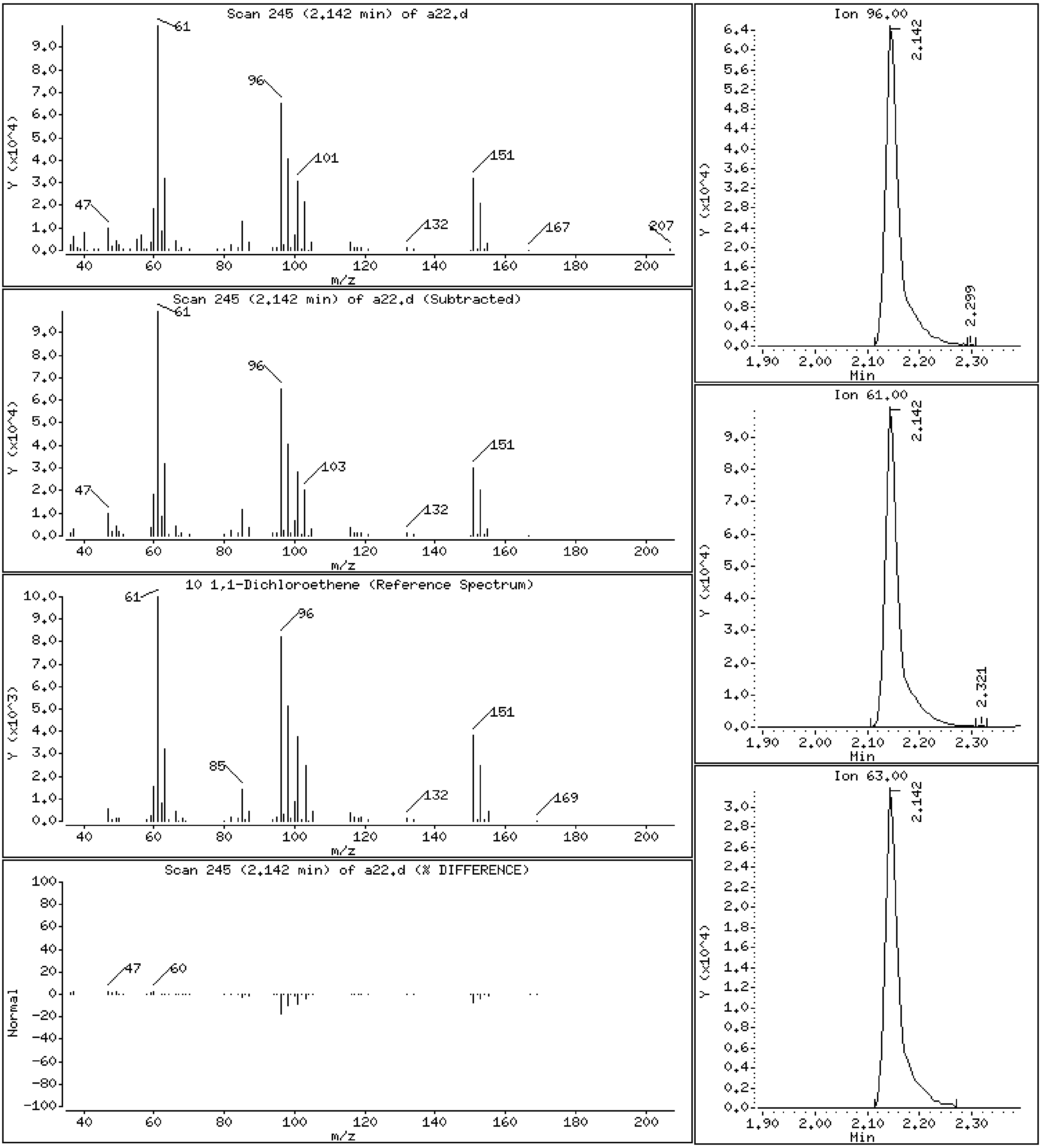
Column phase: DB-624

Column diameter: 0.18

10 1,1-Dichloroethene

Concentration: 54.7 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

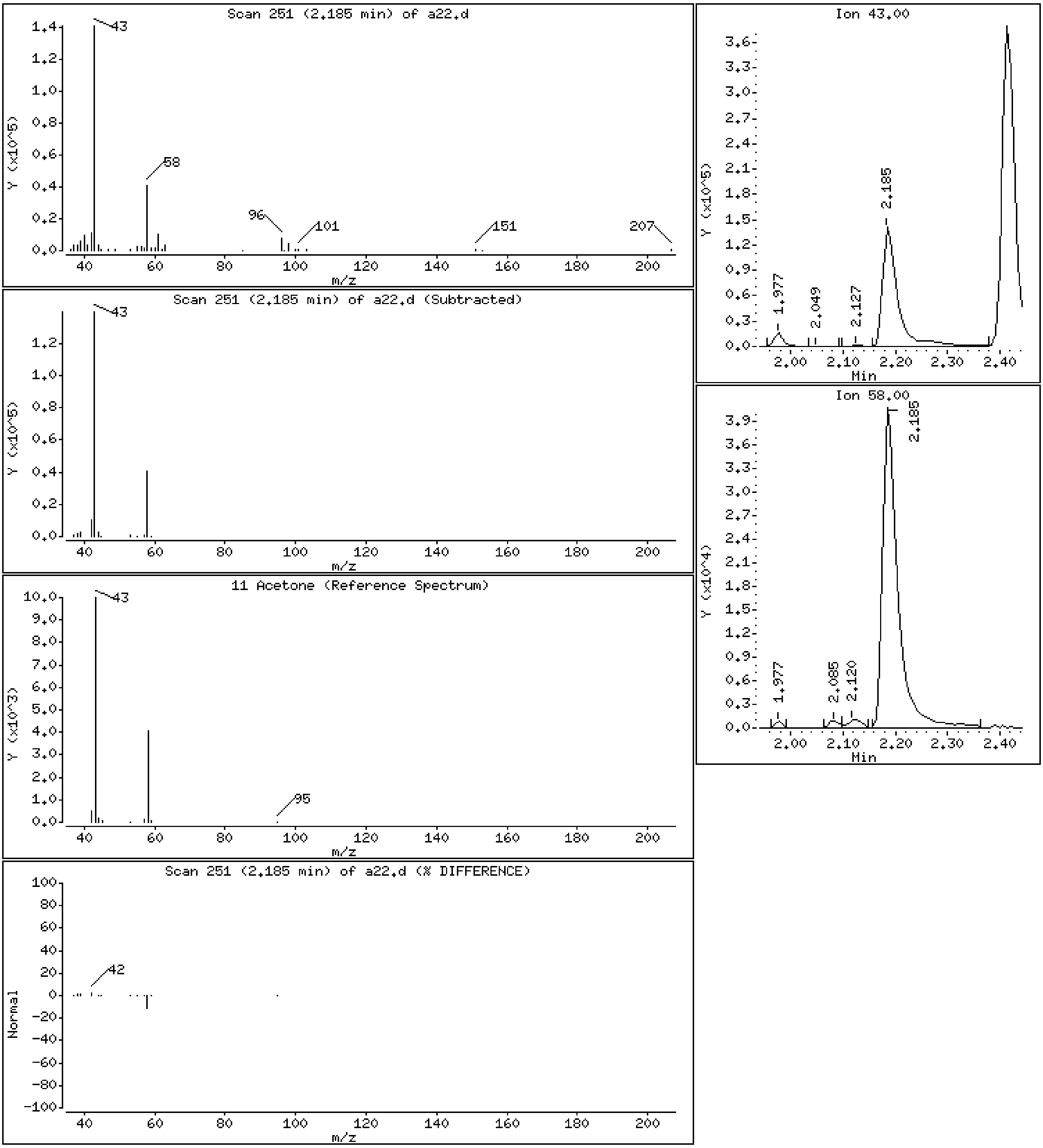
Column phase: DB-624

Column diameter: 0.18

11 Acetone

Concentration: 211 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

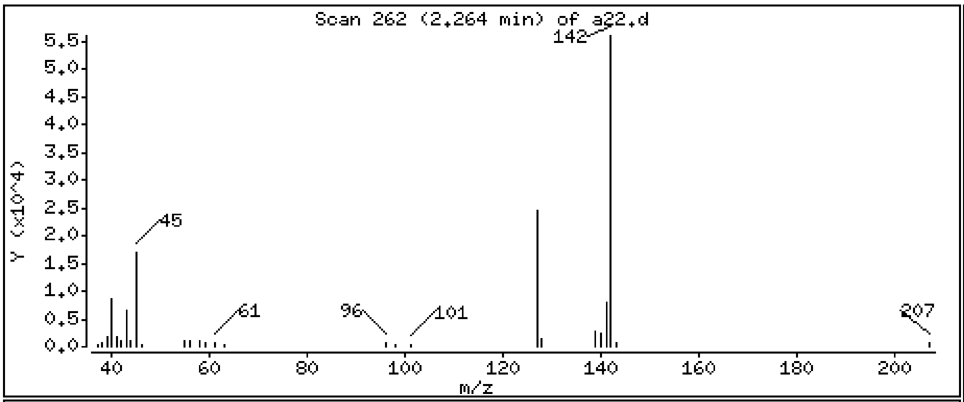
Column phase: DB-624

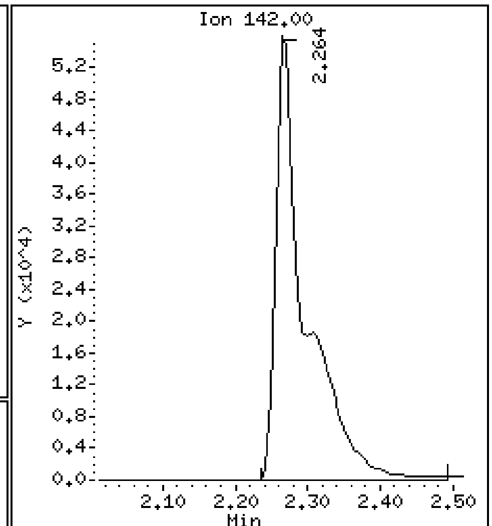
Column diameter: 0.18

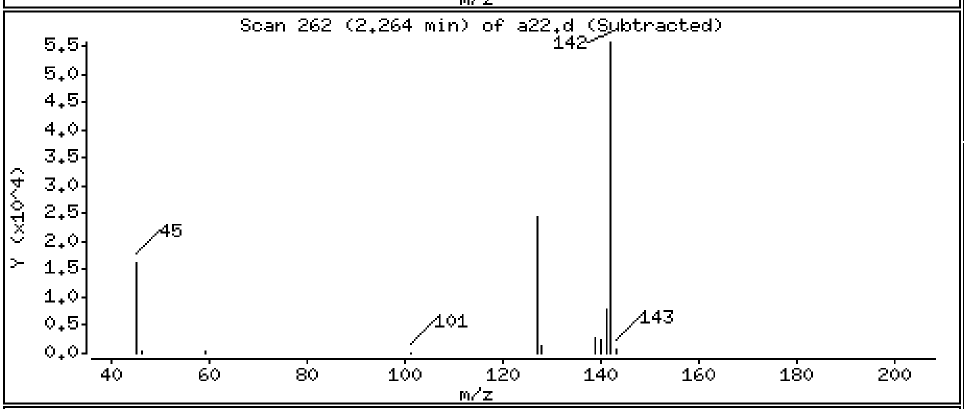
12 Iodomethane

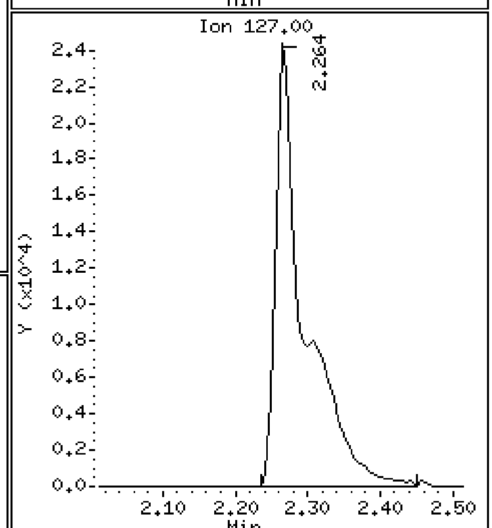
Concentration: 76.1 ppb

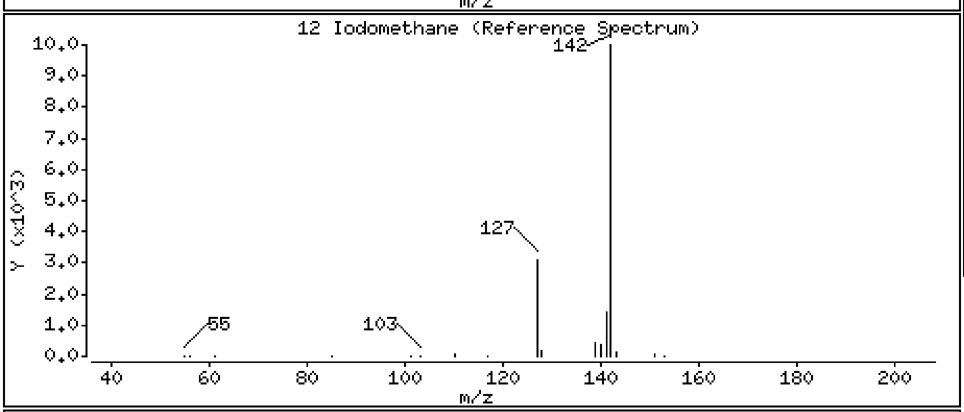
Review Code:

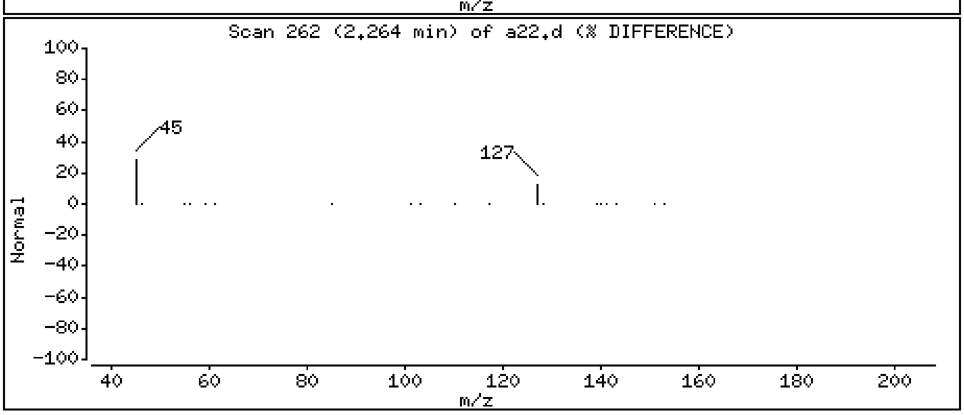












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

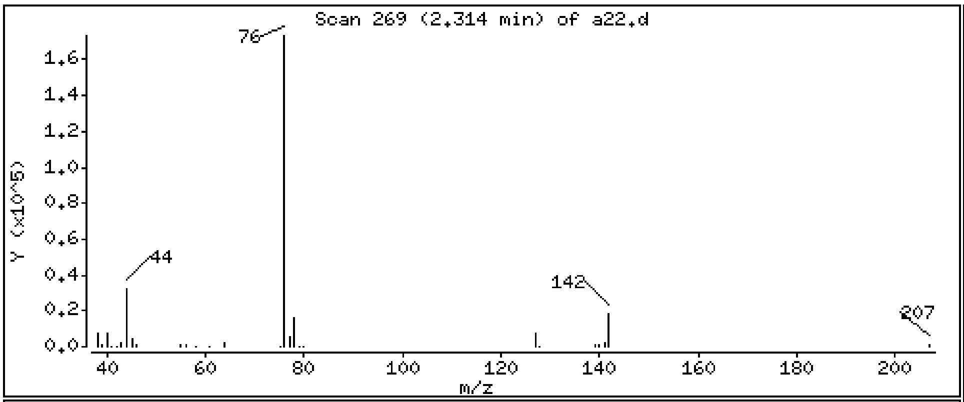
Column phase: DB-624

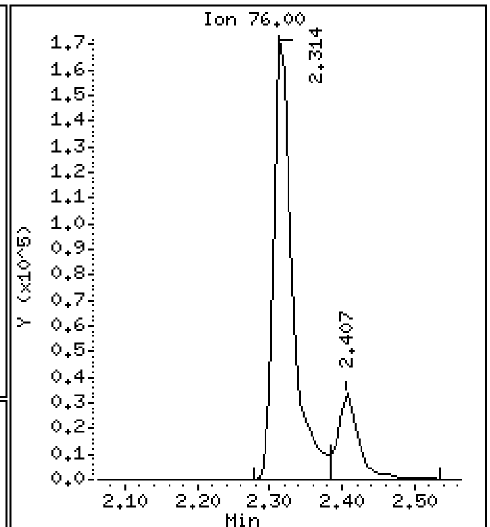
Column diameter: 0.18

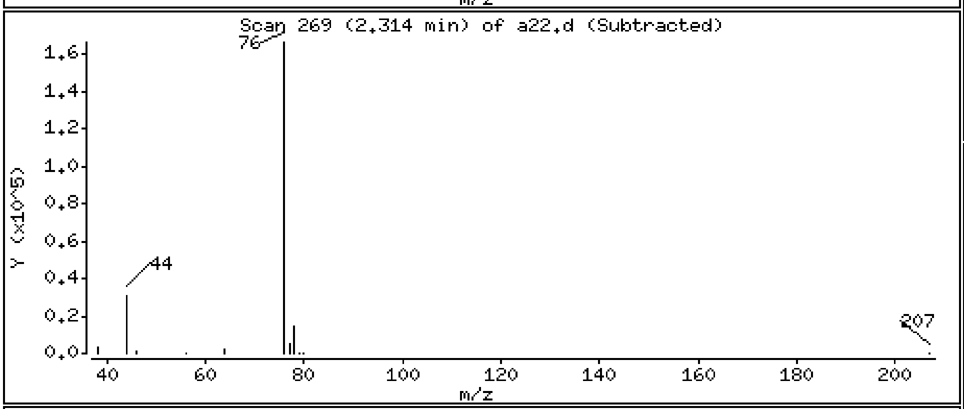
13 Carbon Disulfide

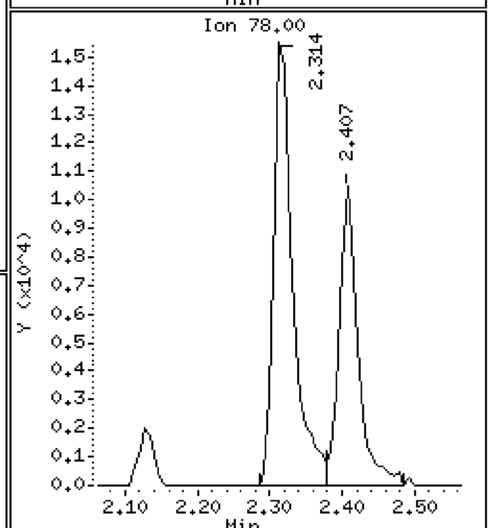
Concentration: 46.9 ppb

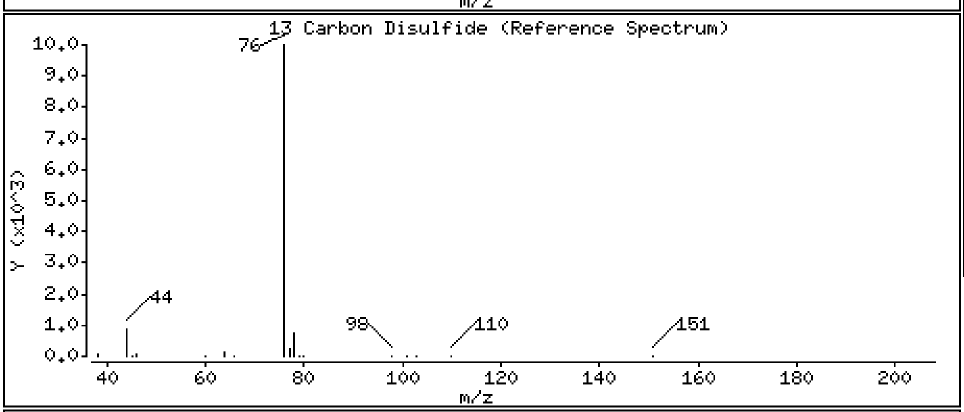
Review Code:

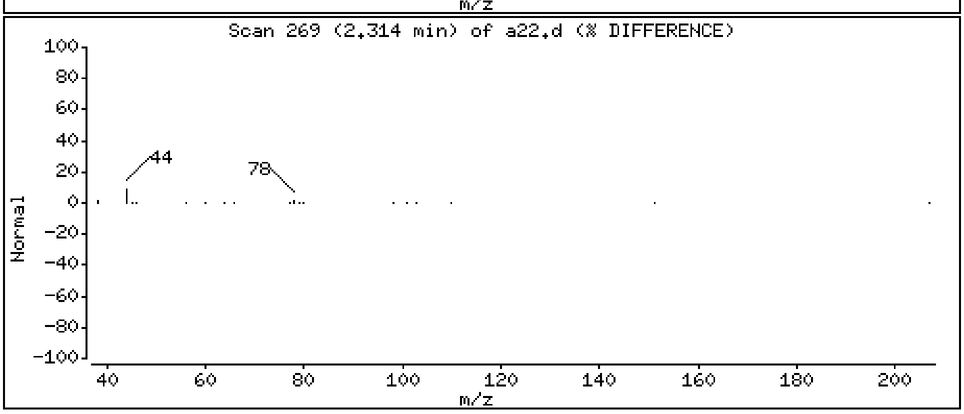












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

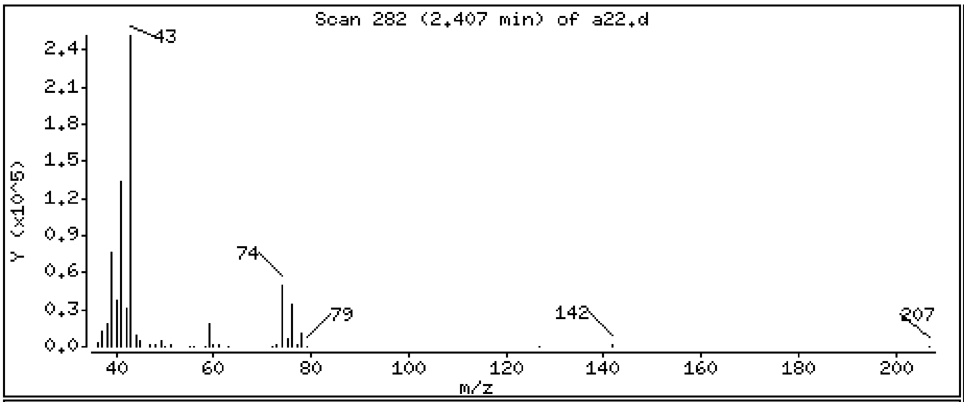
Column phase: DB-624

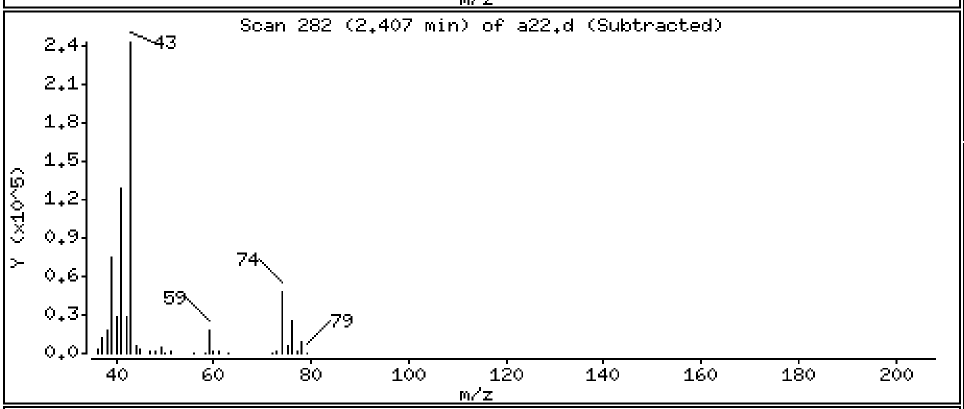
Column diameter: 0.18

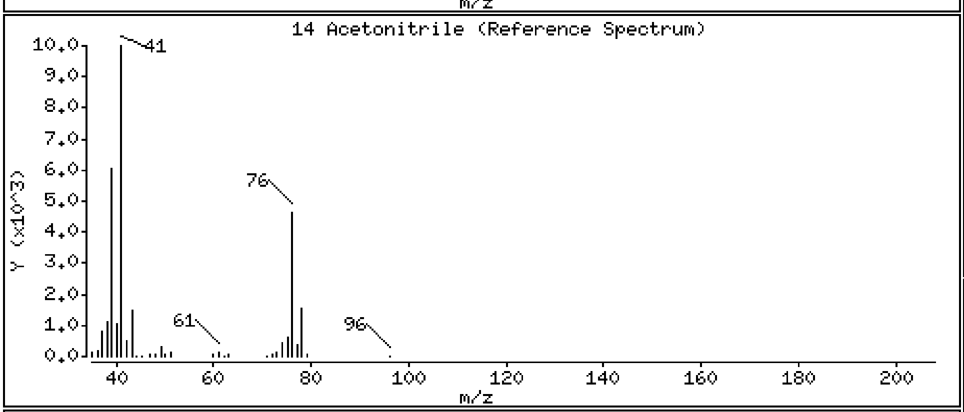
14 Acetonitrile

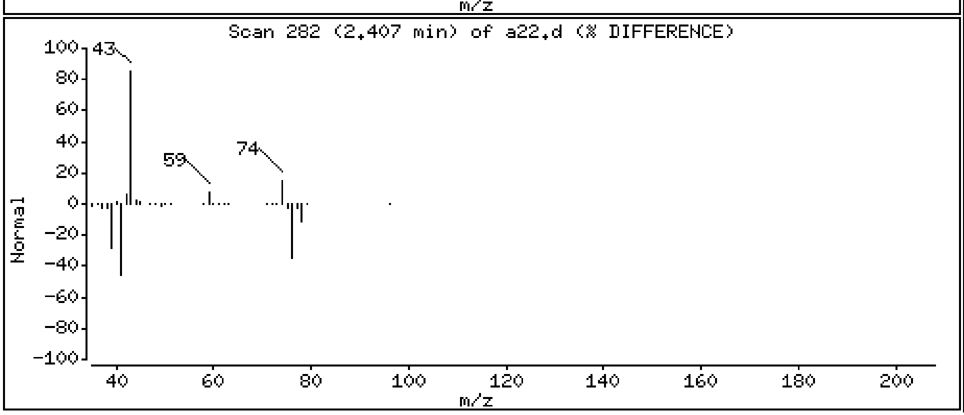
Concentration: 250 ppb

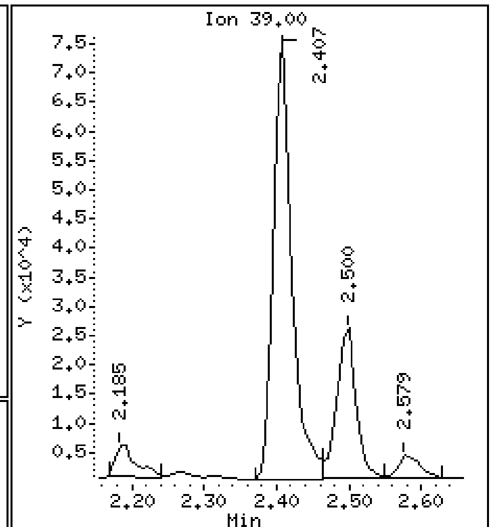
Review Code:

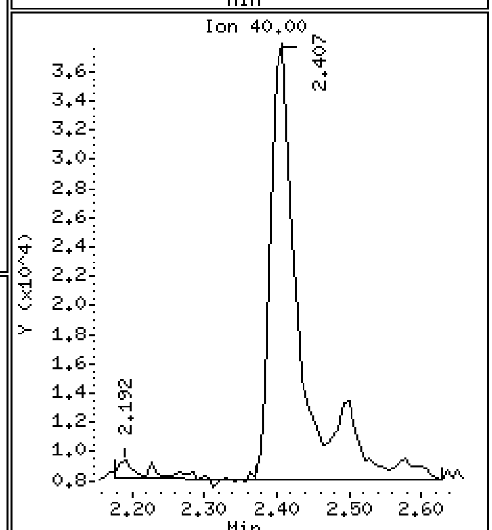


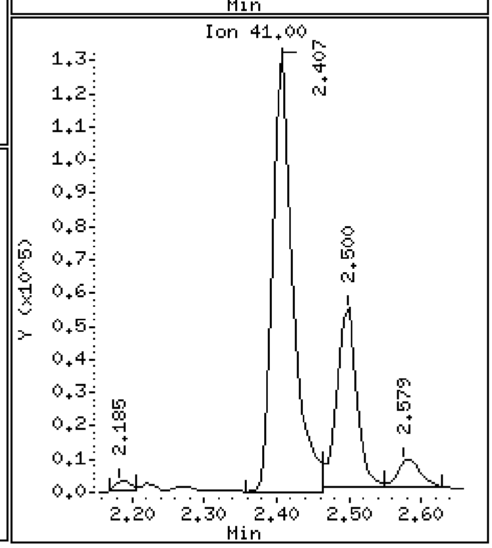












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

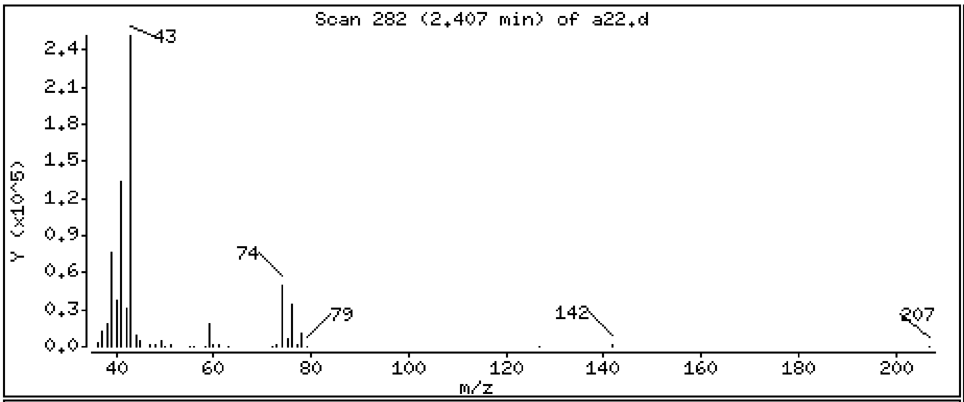
Column phase: DB-624

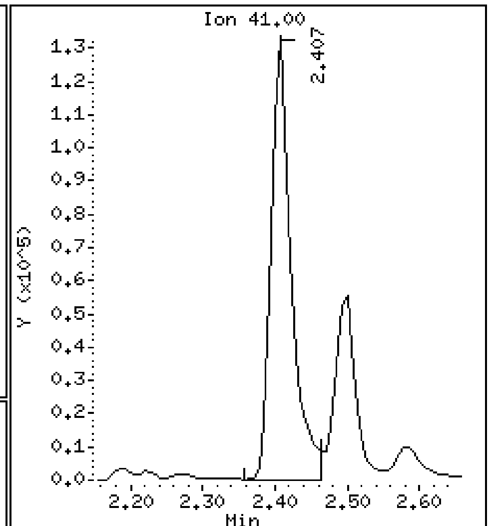
Column diameter: 0.18

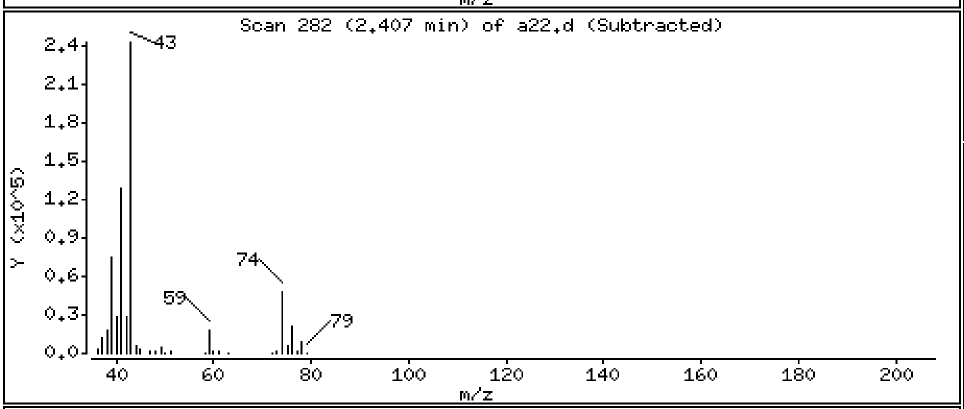
15 allyl chloride

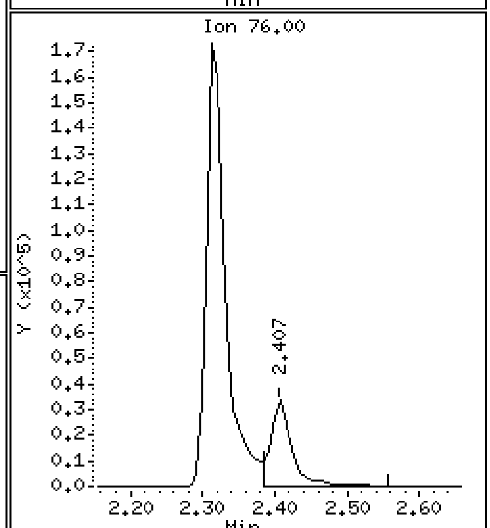
Concentration: 42.2 ppb

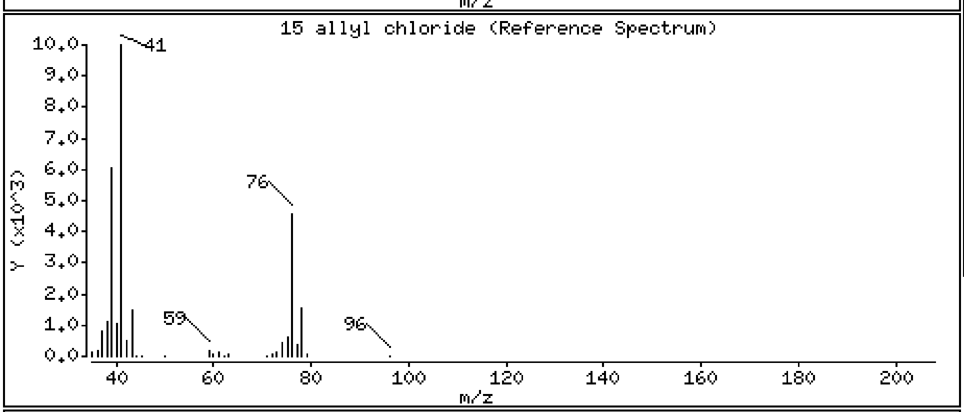
Review Code:

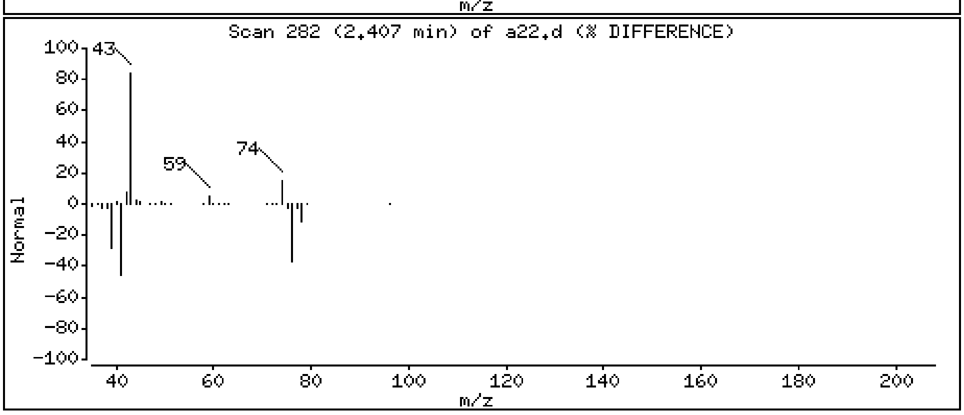












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

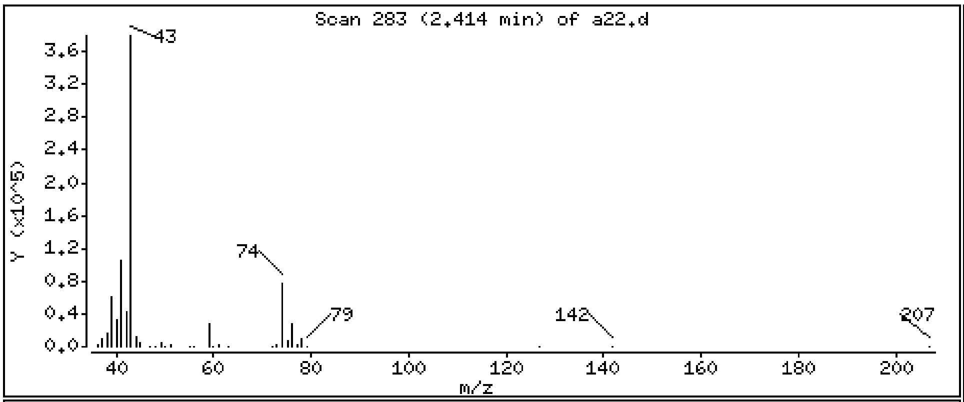
Column phase: DB-624

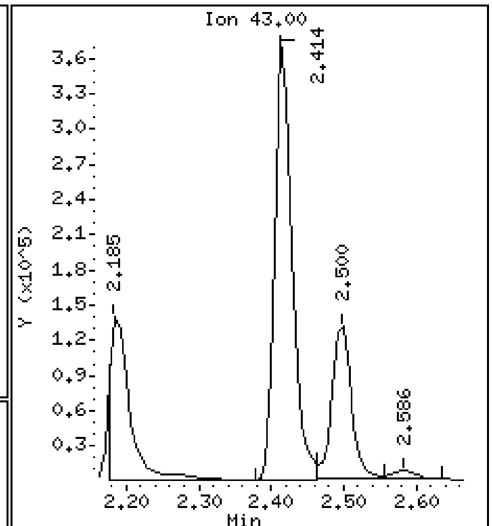
Column diameter: 0.18

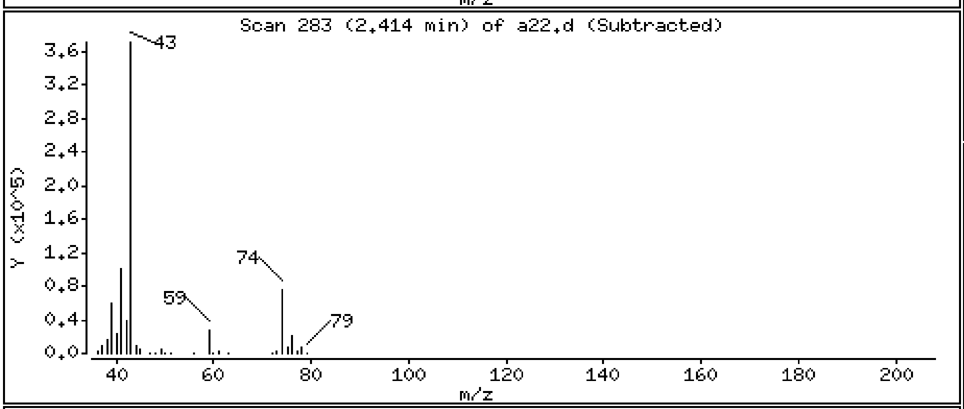
16 Methyl Acetate

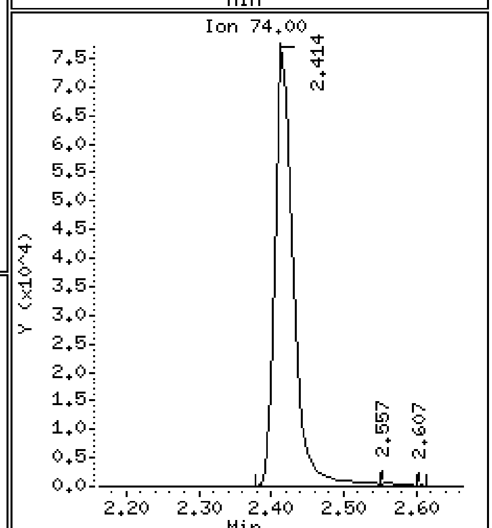
Concentration: 208 ppb

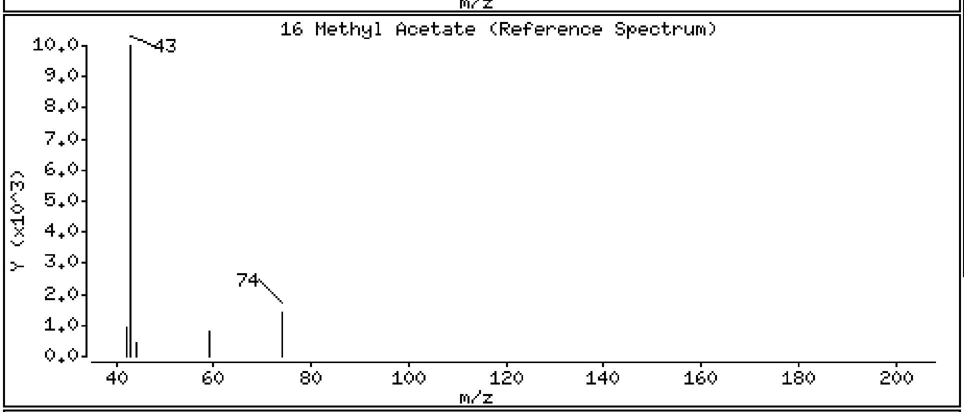
Review Code:

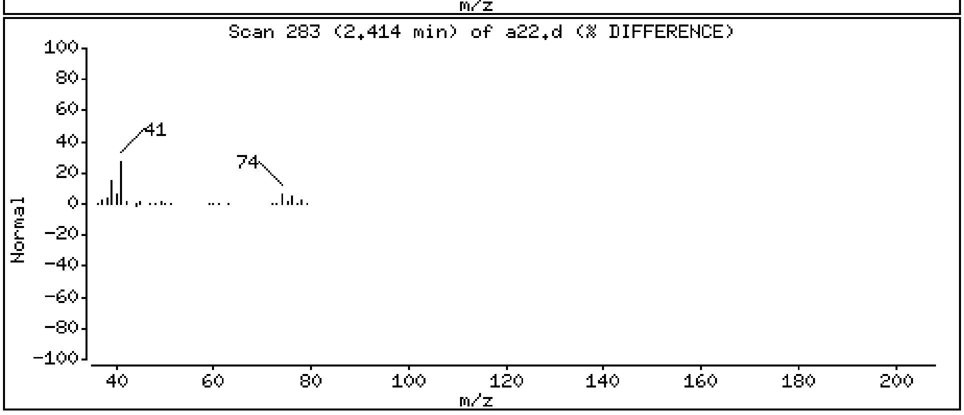












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

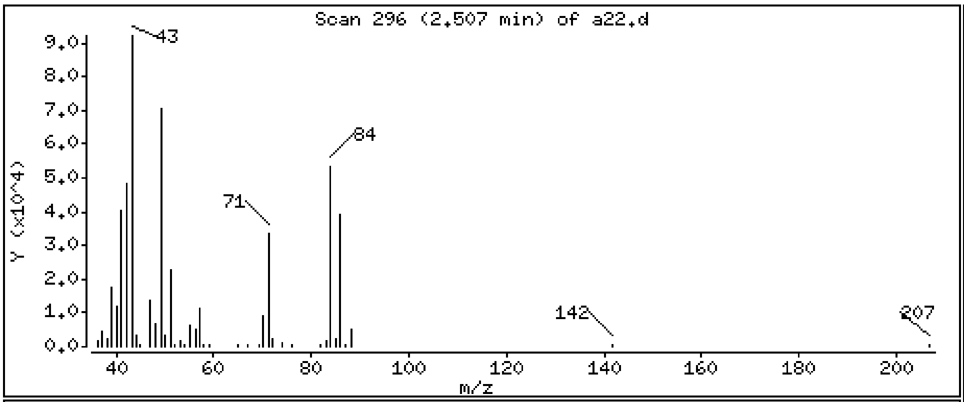
Column phase: DB-624

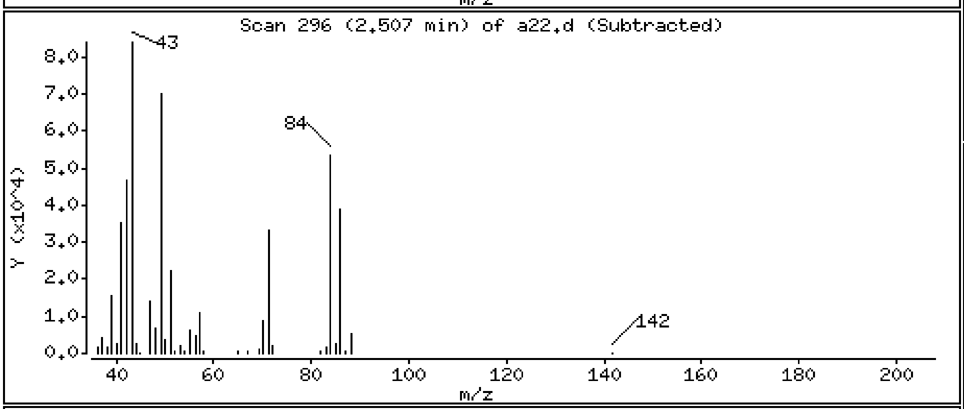
Column diameter: 0.18

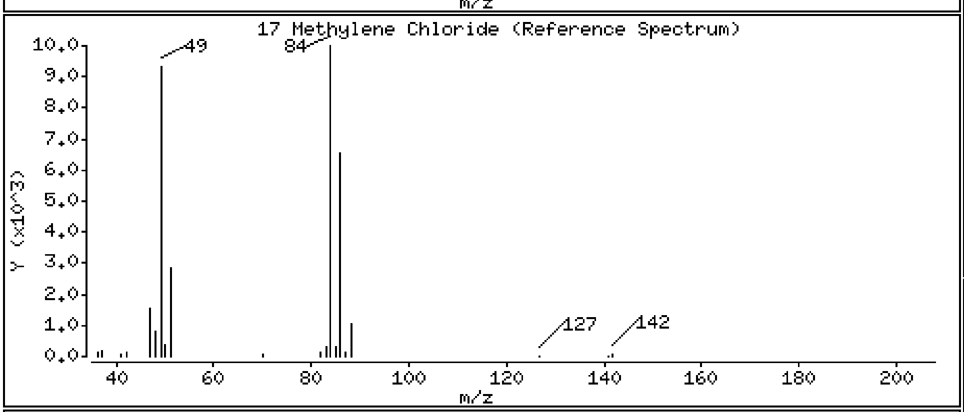
17 Methylene Chloride

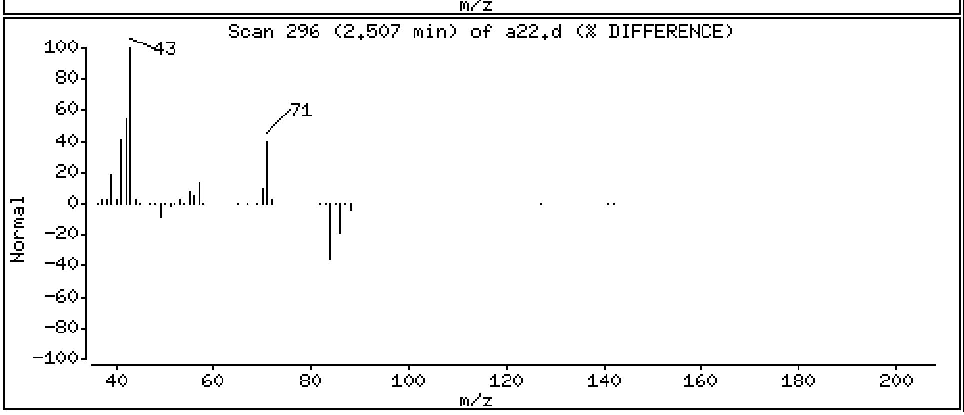
Concentration: 49.8 ppb

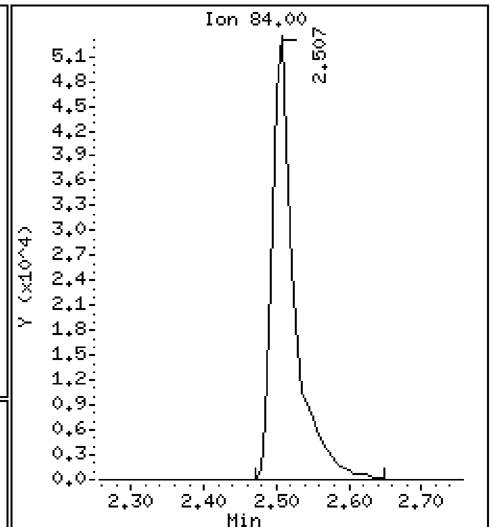
Review Code:

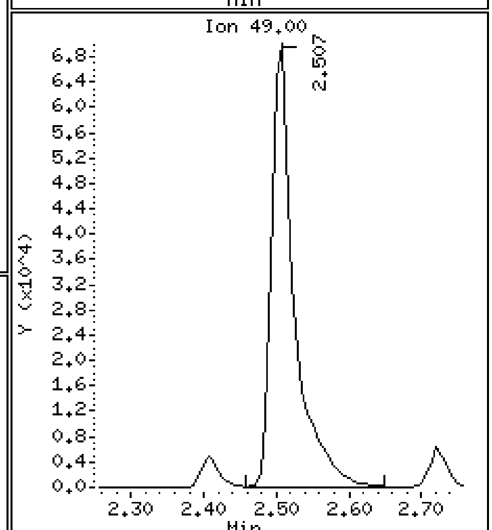


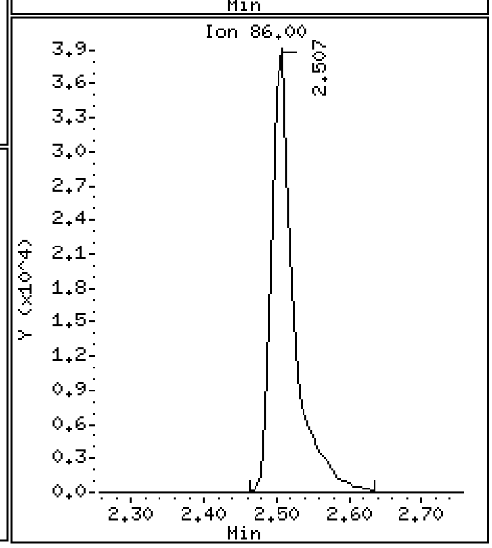












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

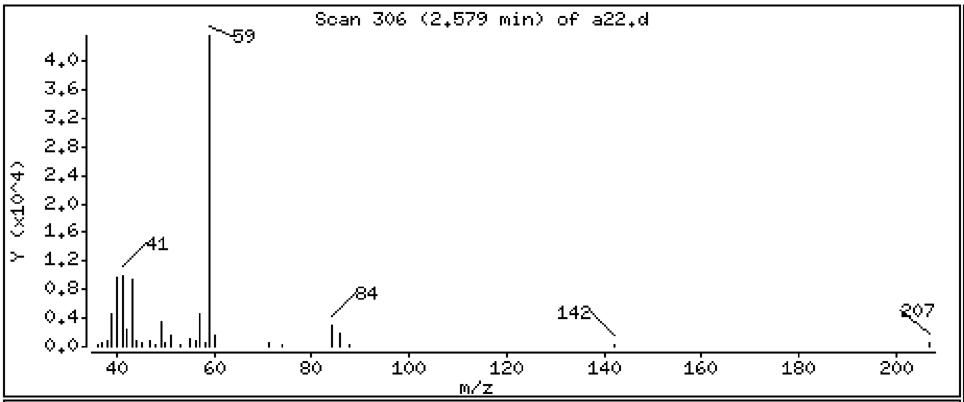
Column phase: DB-624

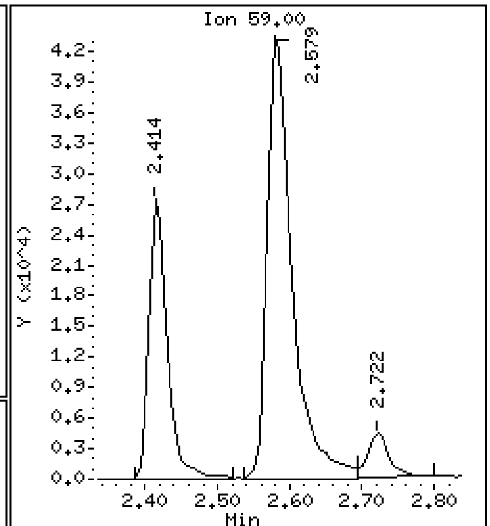
Column diameter: 0.18

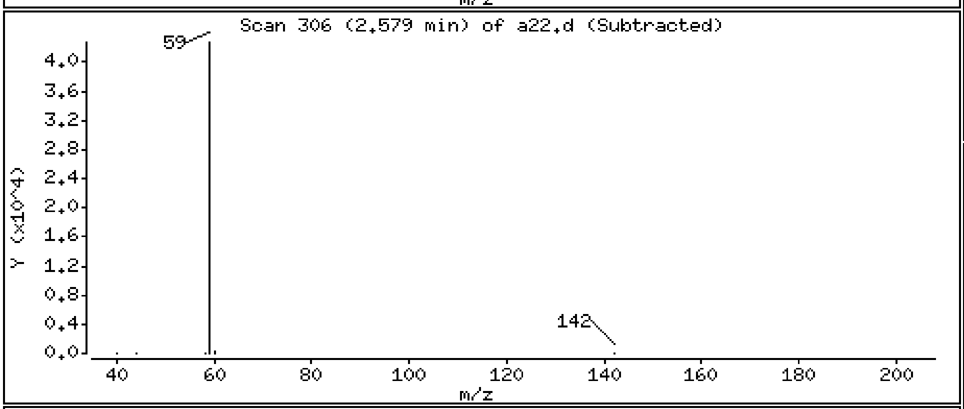
18 tert-Butyl Alcohol

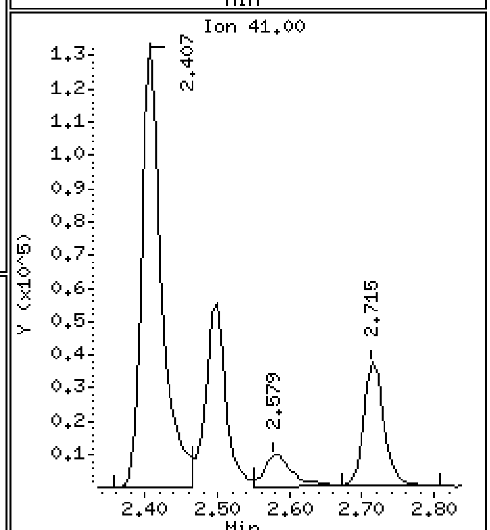
Concentration: 229 ppb

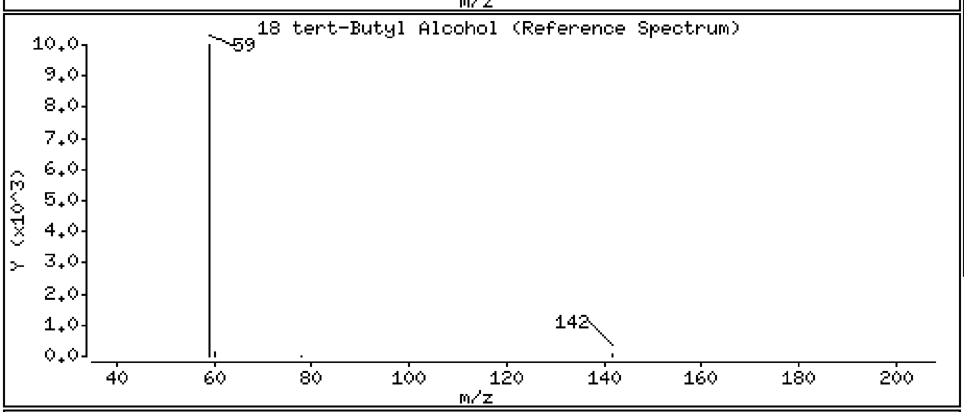
Review Code:

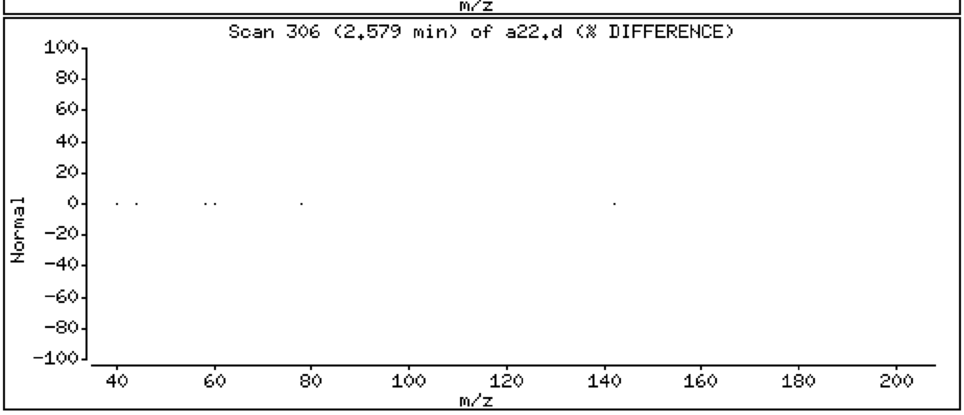












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

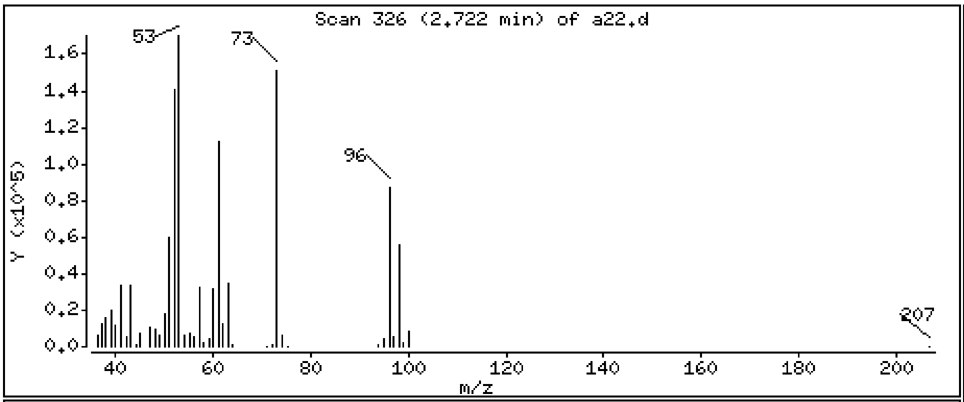
Column phase: DB-624

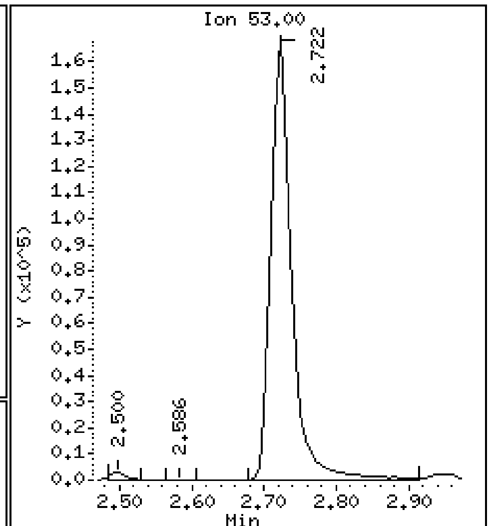
Column diameter: 0.18

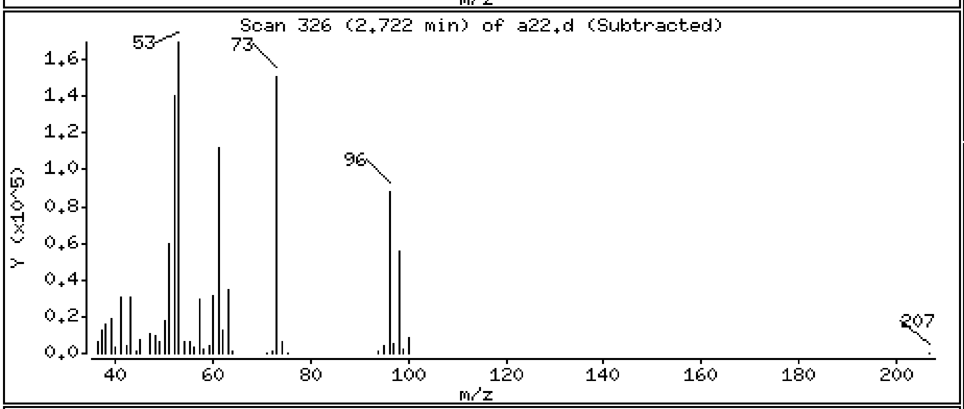
19 Acrylonitrile

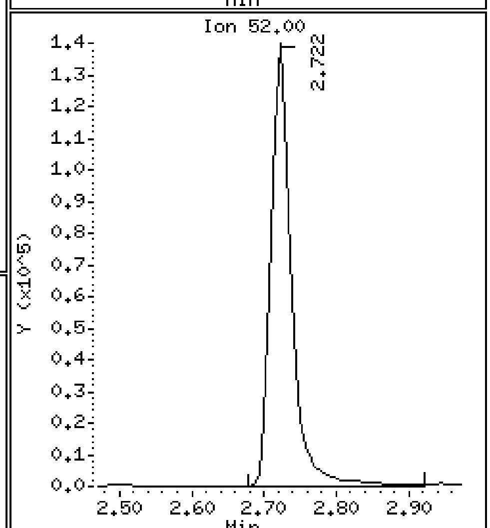
Concentration: 238 ppb

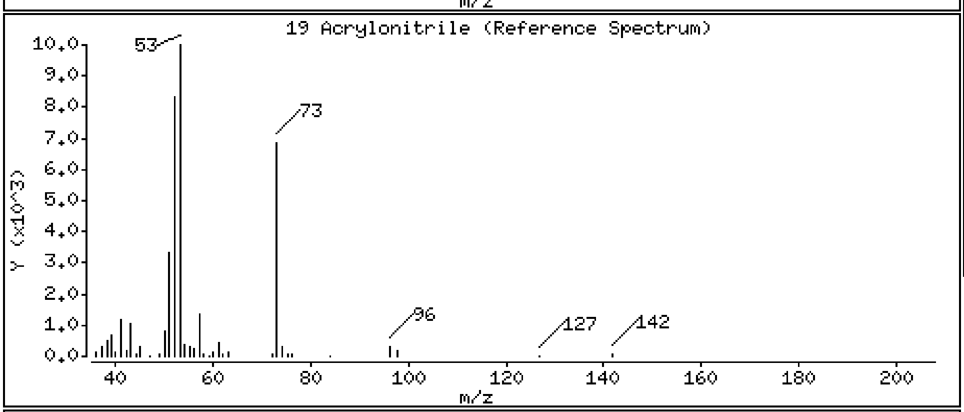
Review Code:

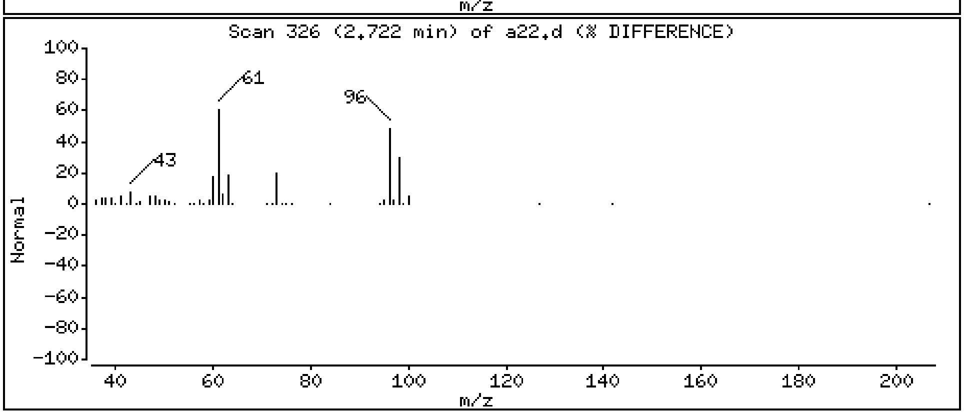












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

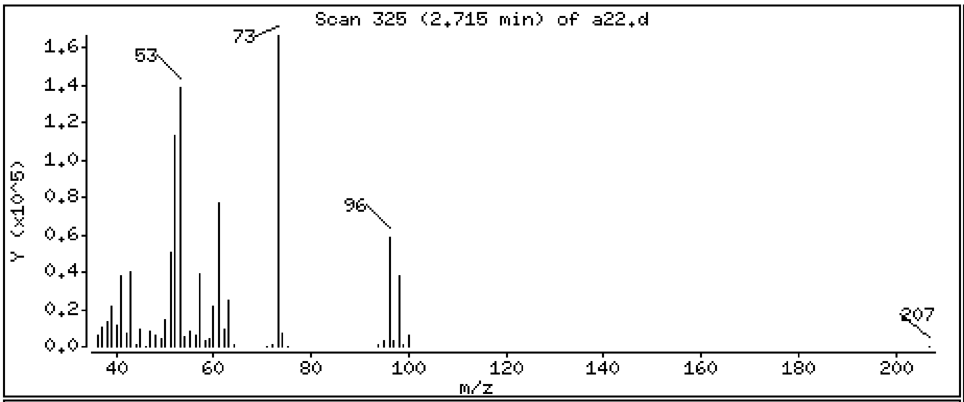
Column phase: DB-624

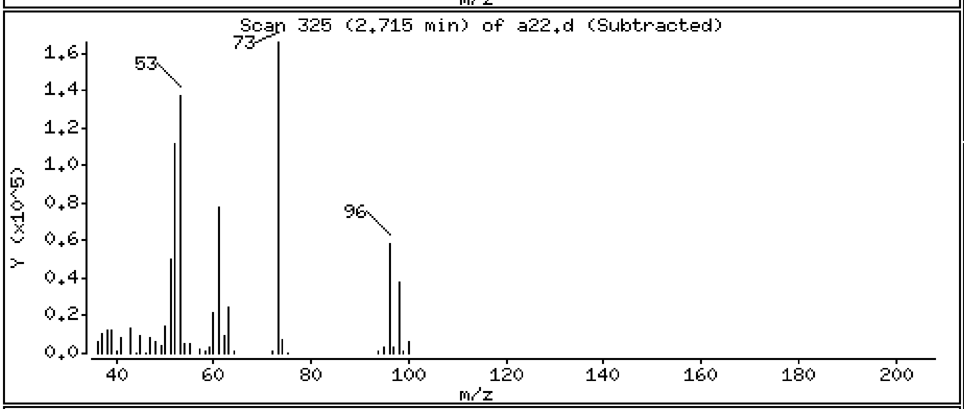
Column diameter: 0.18

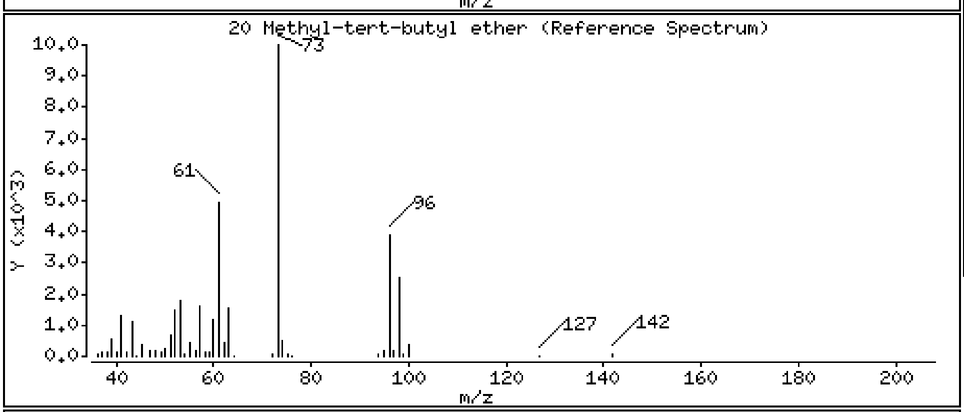
20 Methyl-tert-butyl ether

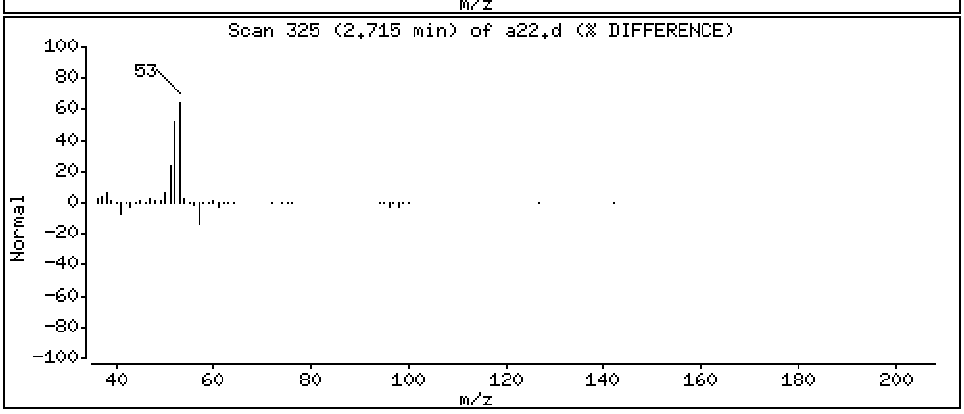
Concentration: 49.4 ppb

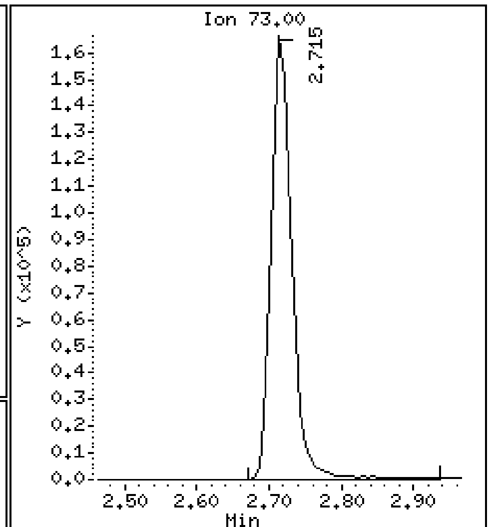
Review Code:

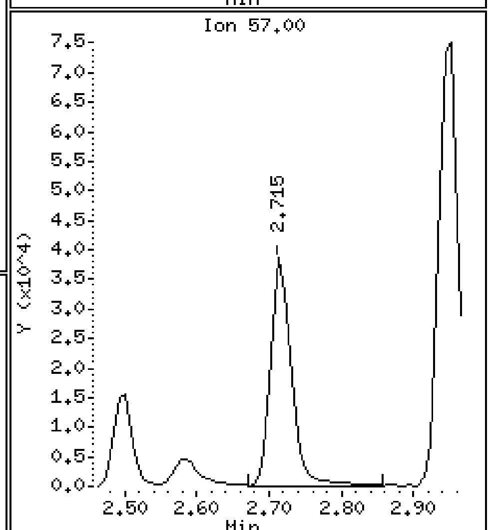












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

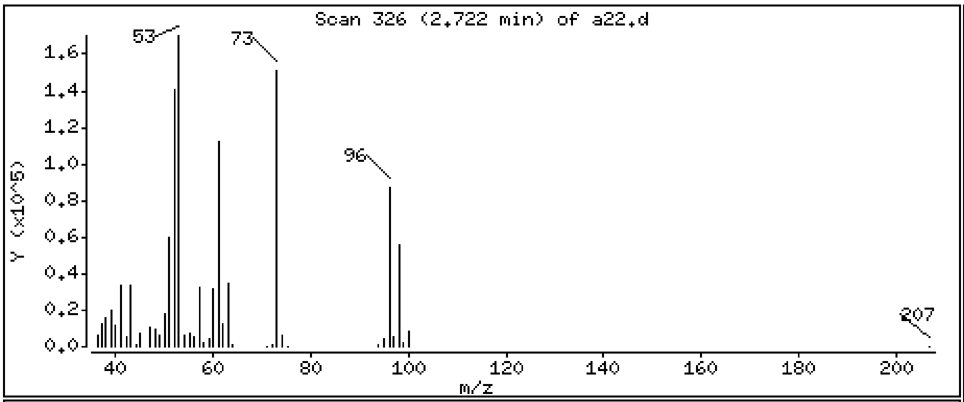
Column phase: DB-624

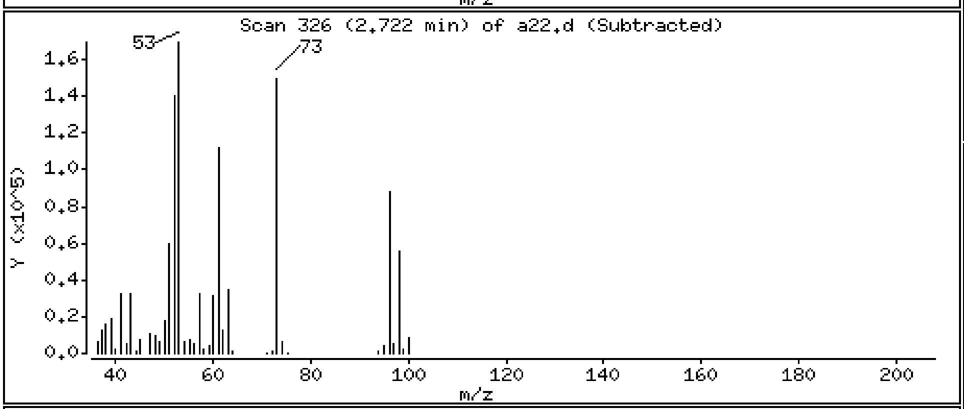
Column diameter: 0.18

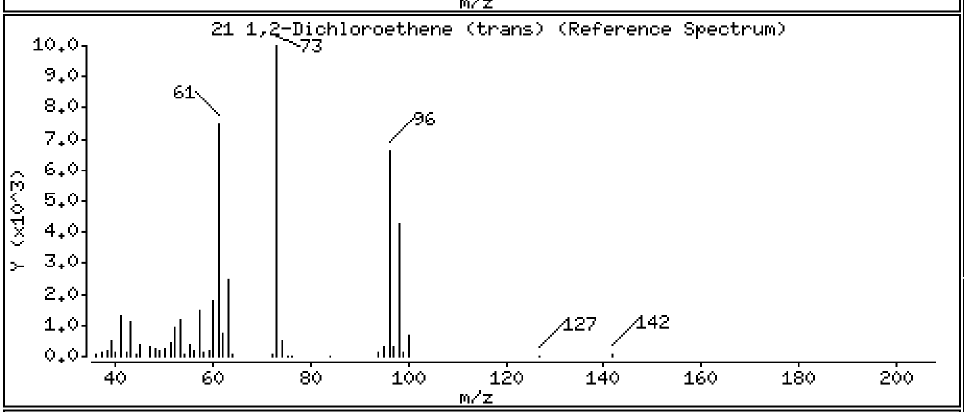
21 1,2-Dichloroethene (trans)

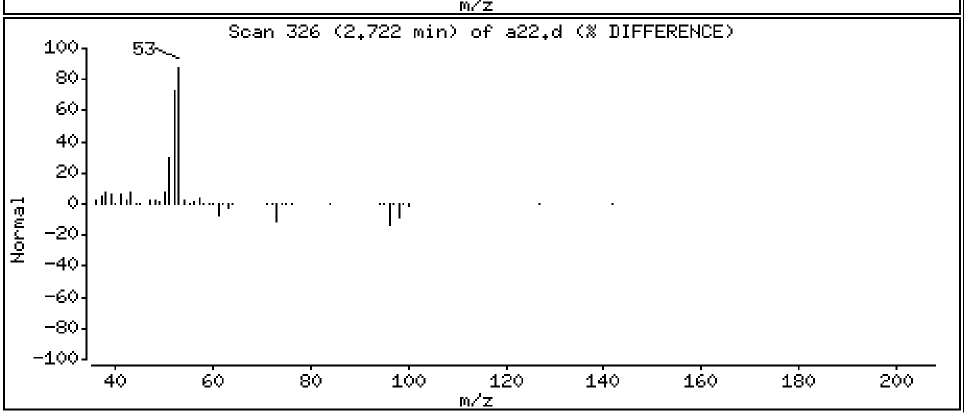
Concentration: 58.7 ppb

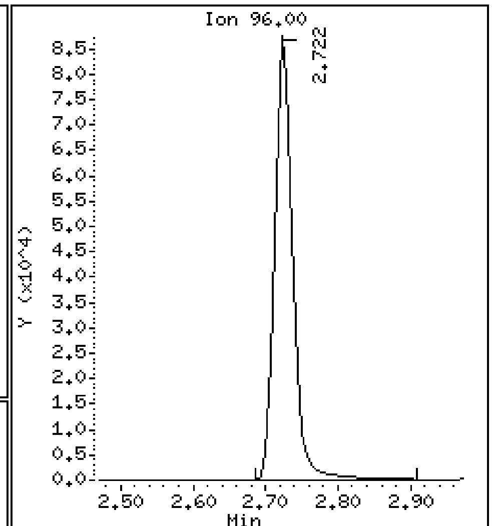
Review Code:

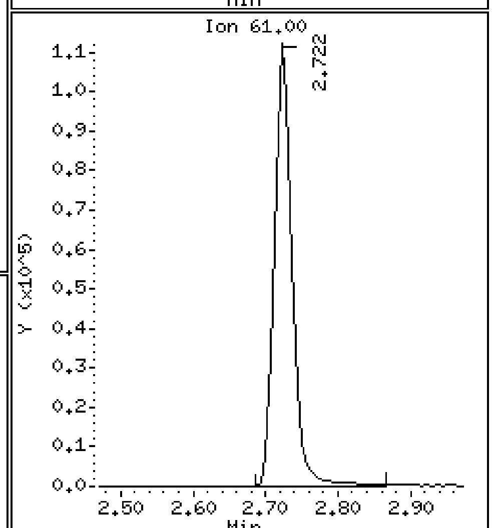


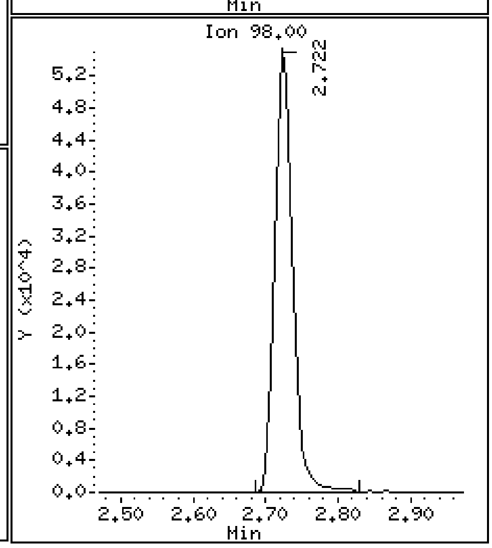












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

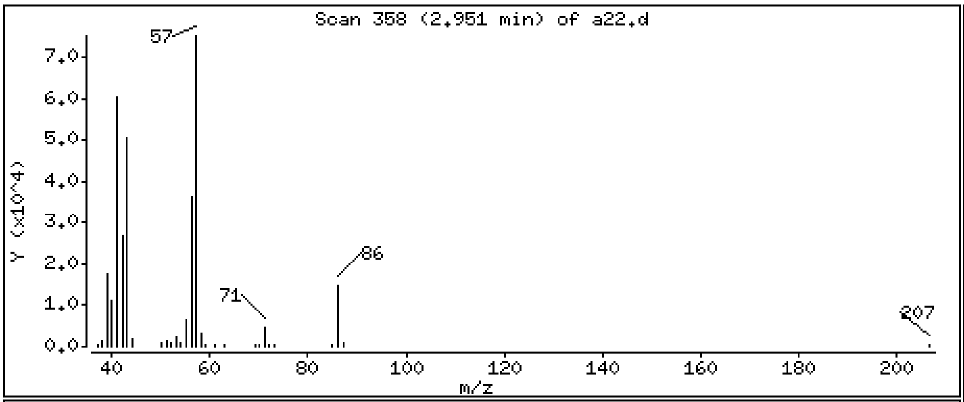
Column phase: DB-624

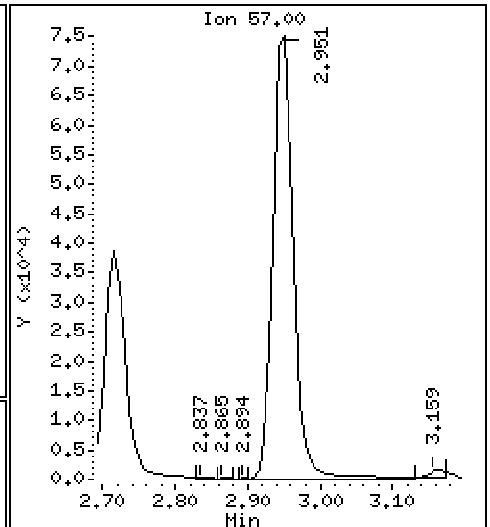
Column diameter: 0.18

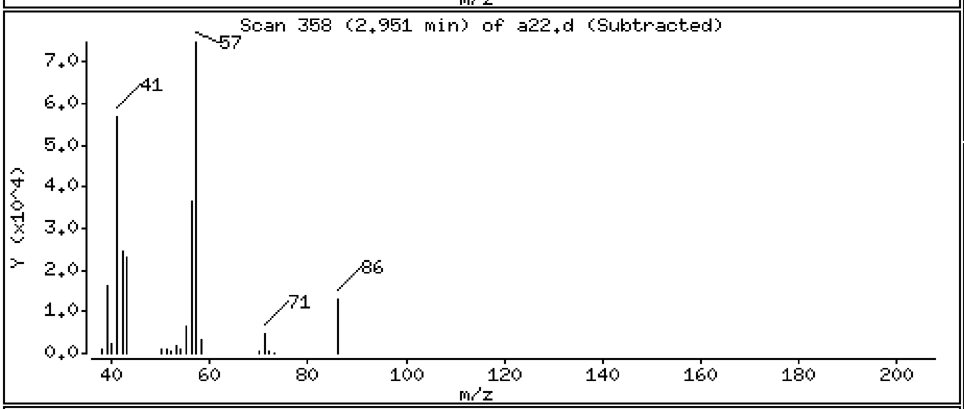
22 n-Hexane

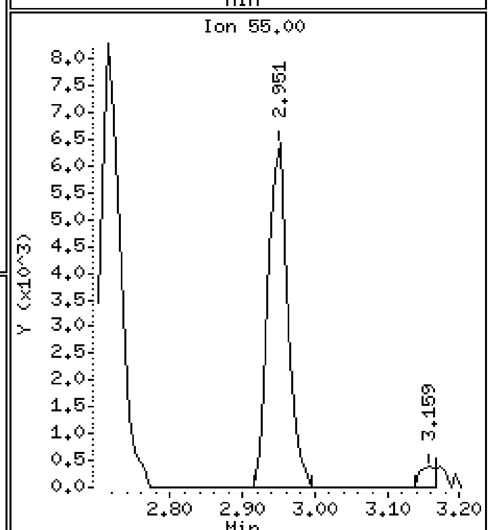
Concentration: 36.7 ppb

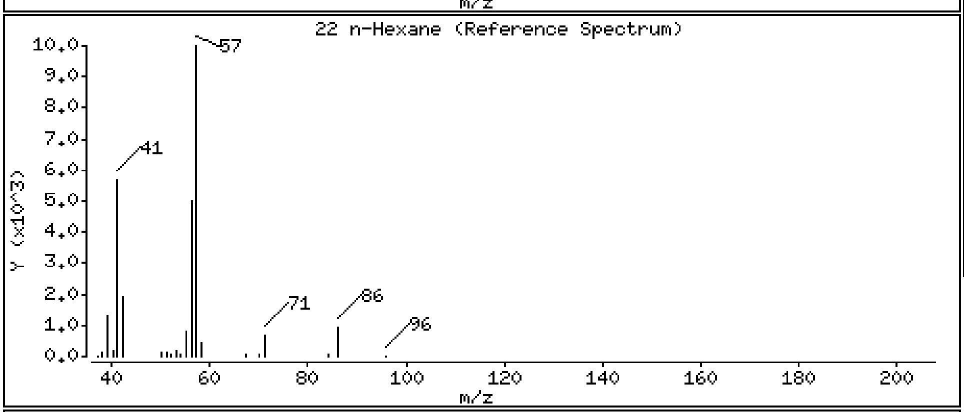
Review Code:

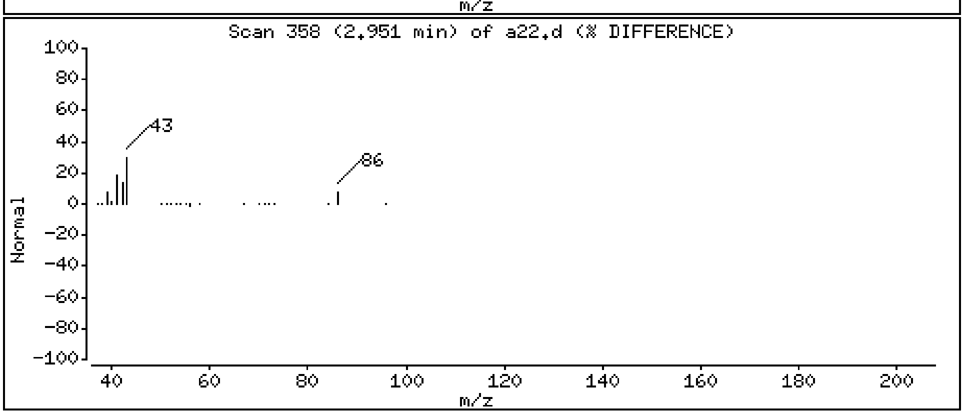












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

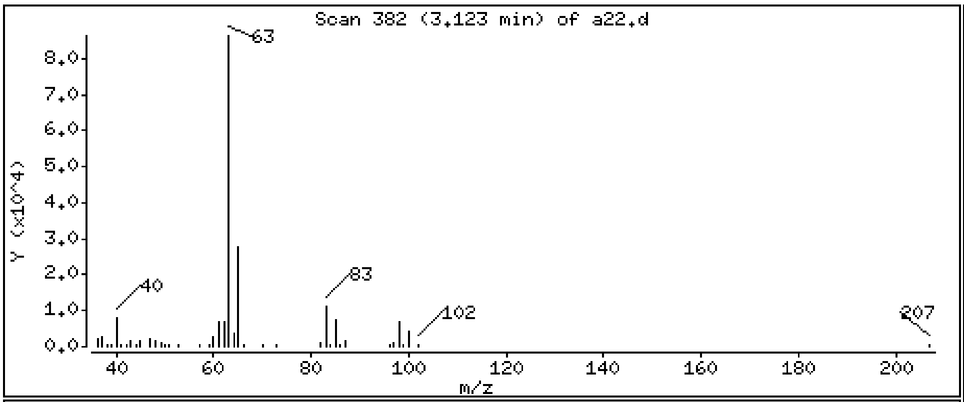
Column phase: DB-624

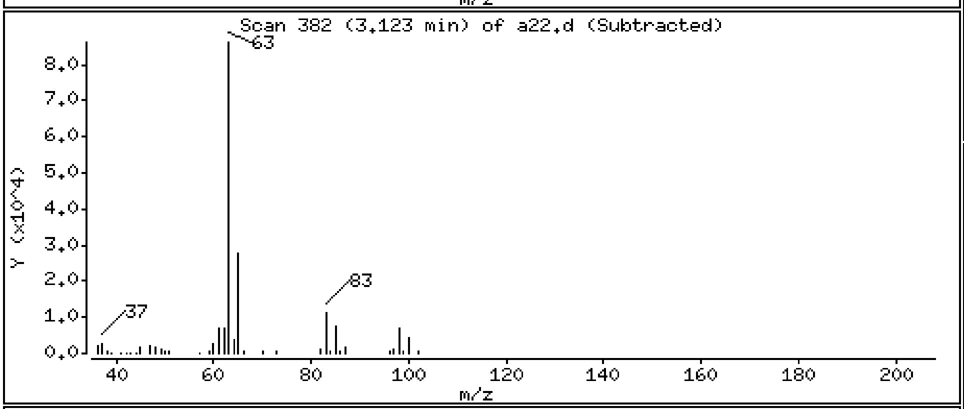
Column diameter: 0.18

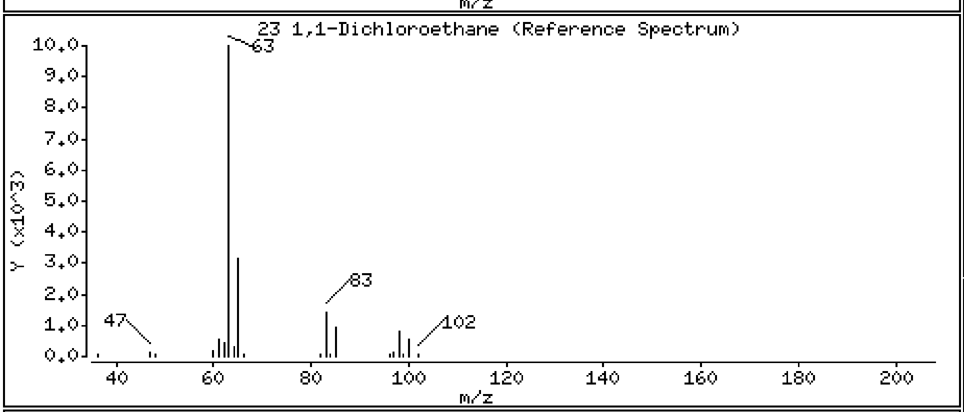
23 1,1-Dichloroethane

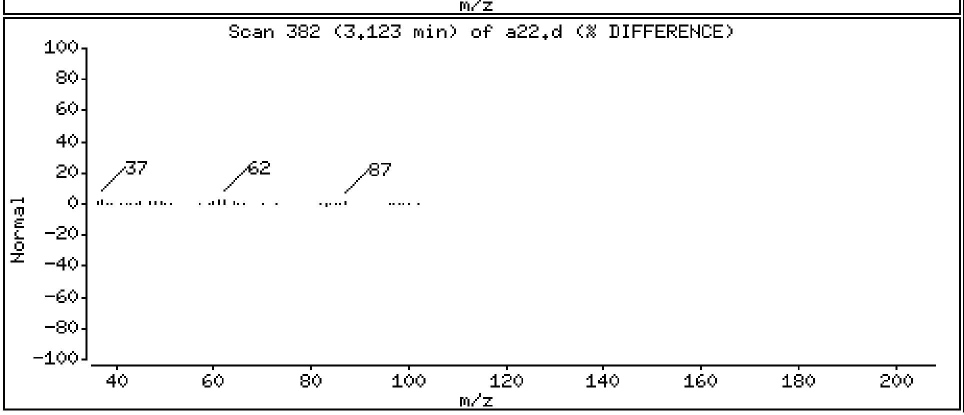
Concentration: 50.1 ppb

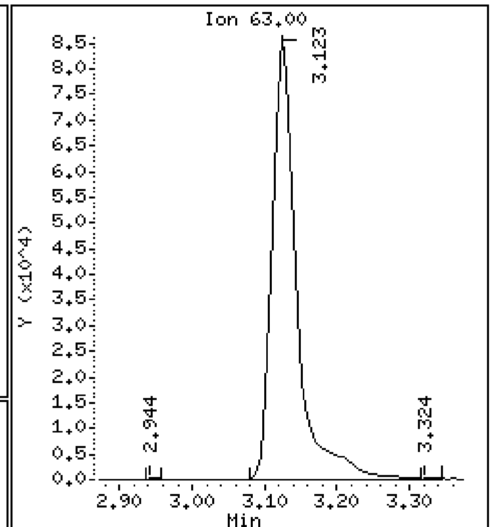
Review Code:

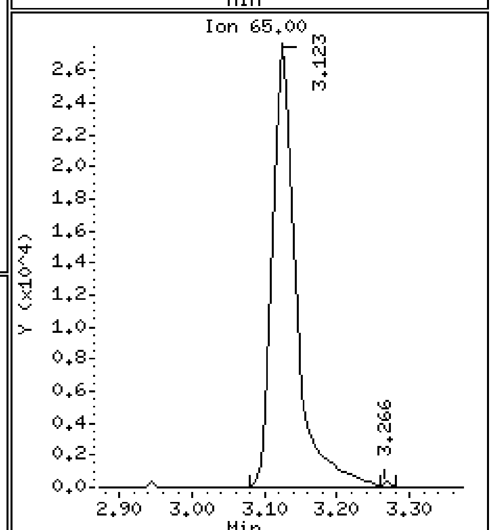


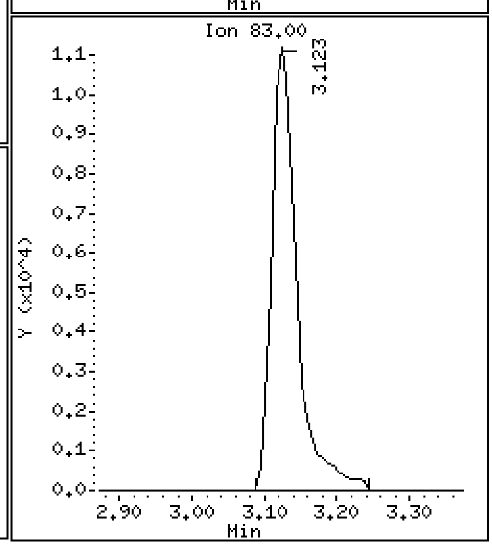












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

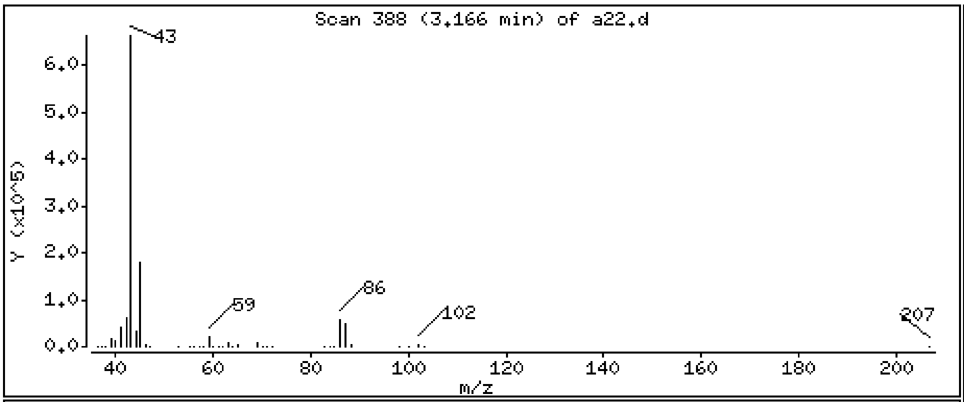
Column phase: DB-624

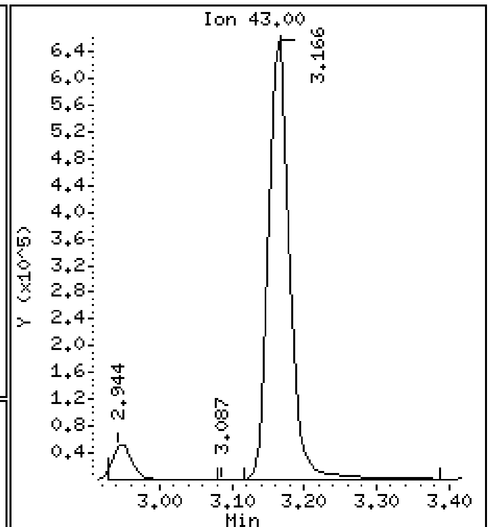
Column diameter: 0.18

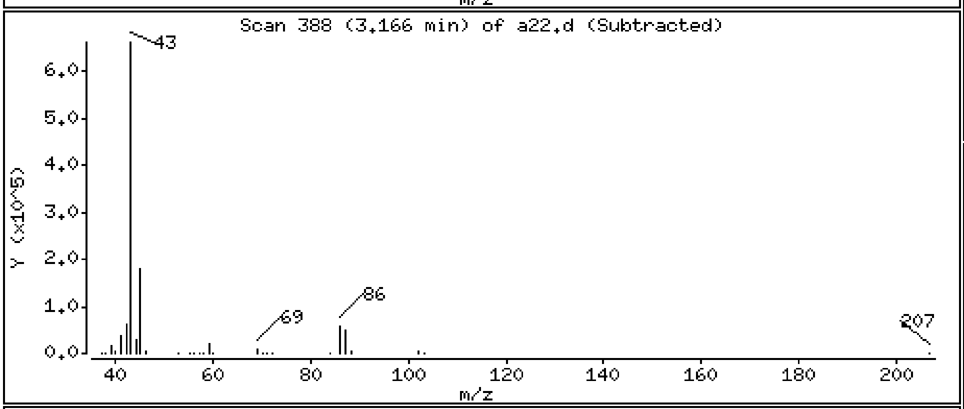
24 Vinyl Acetate

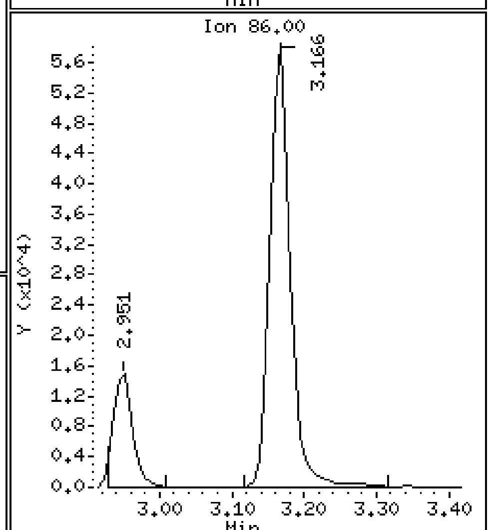
Concentration: 187 ppb

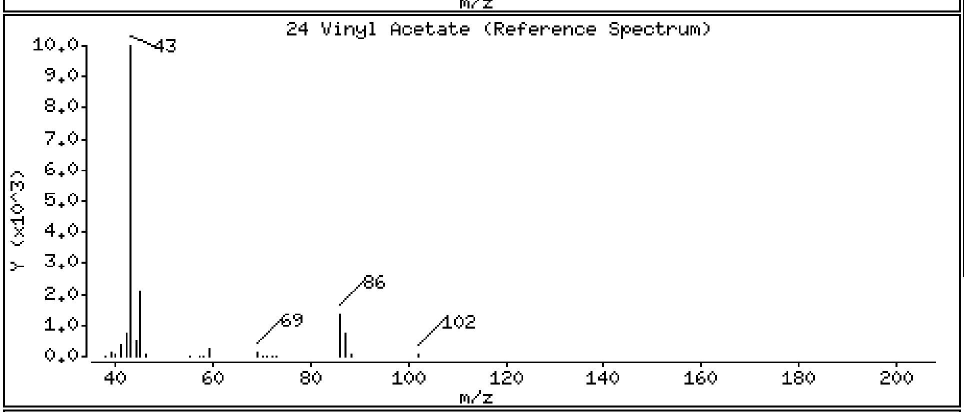
Review Code:

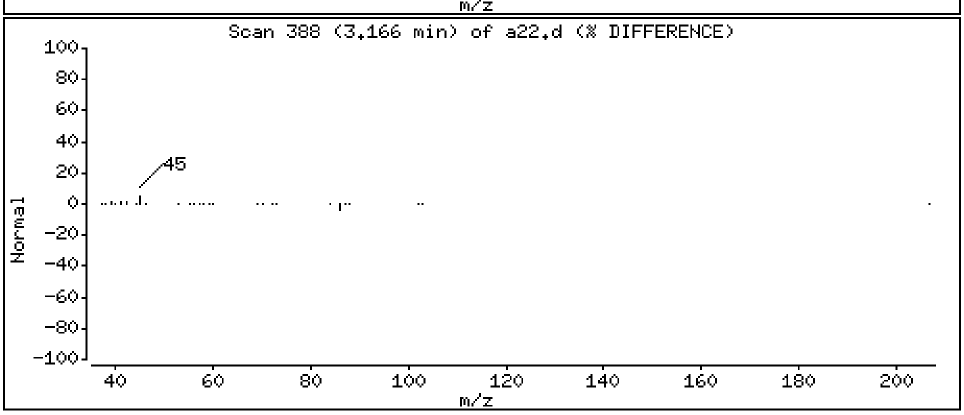












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

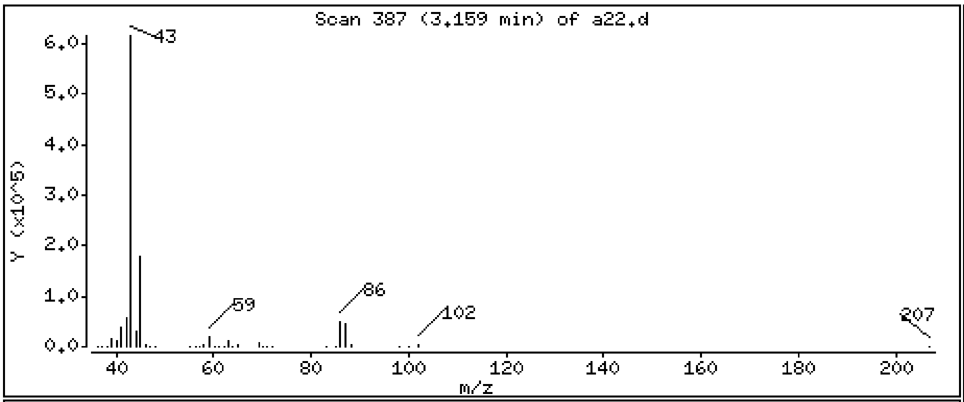
Column phase: DB-624

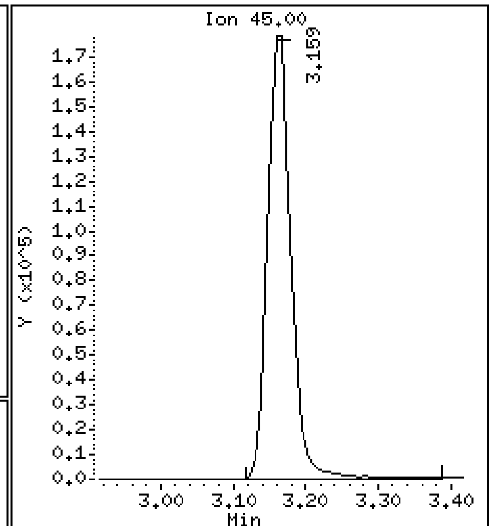
Column diameter: 0.18

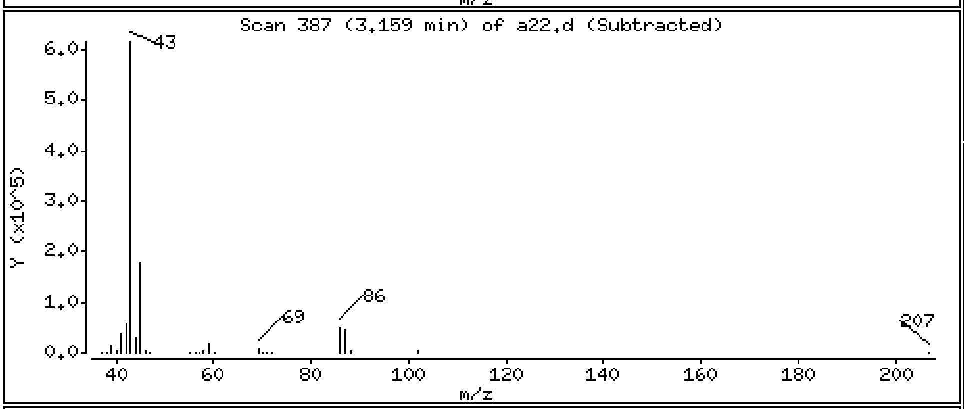
25 Diisopropyl ether

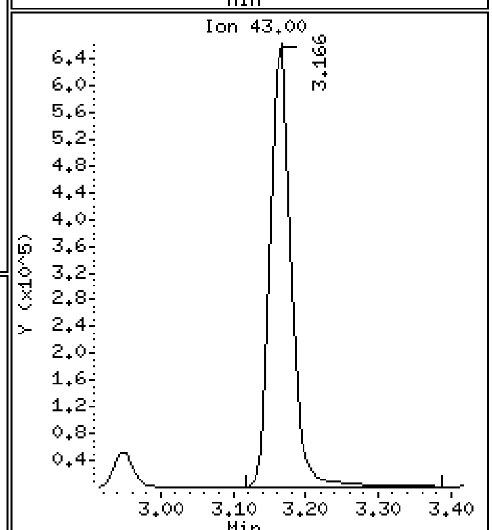
Concentration: 47.2 ppb

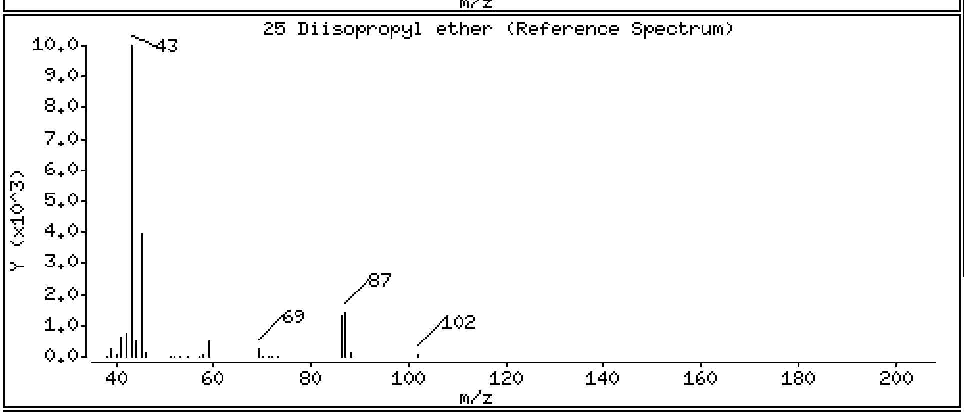
Review Code:

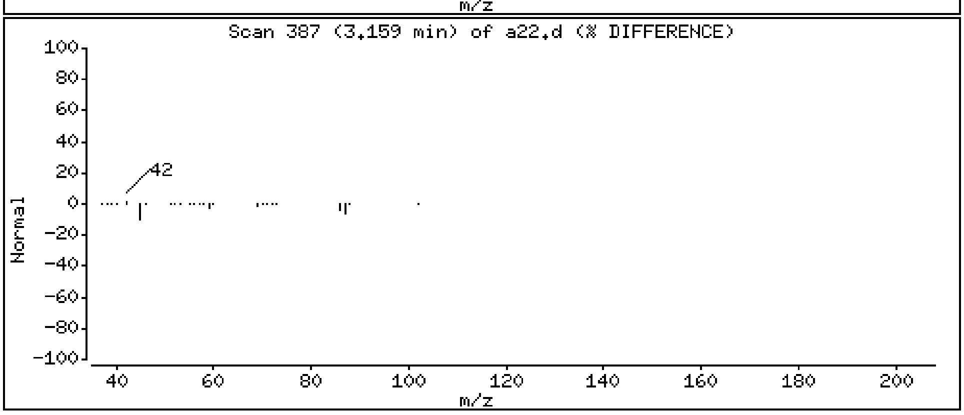












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

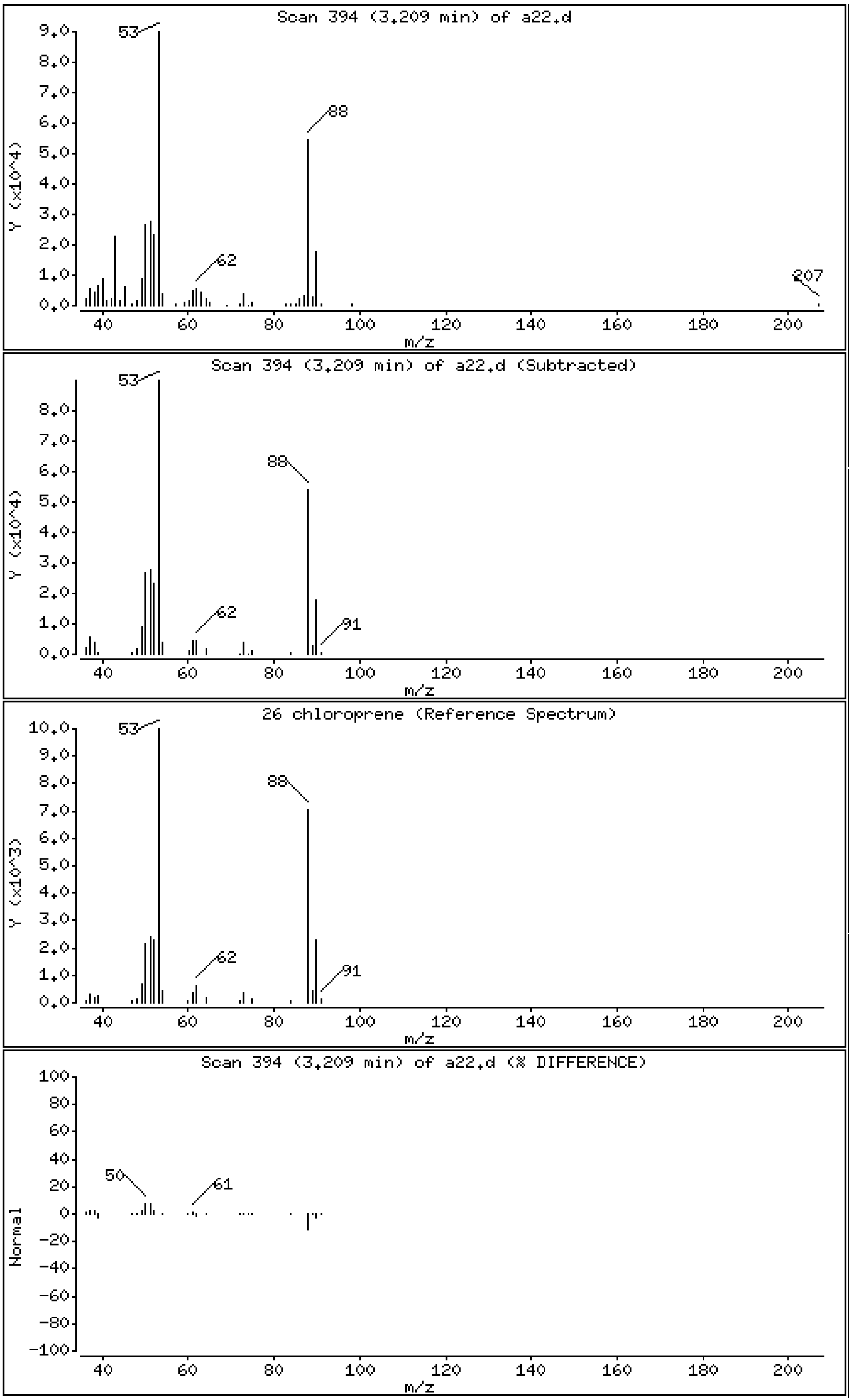
Column phase: DB-624

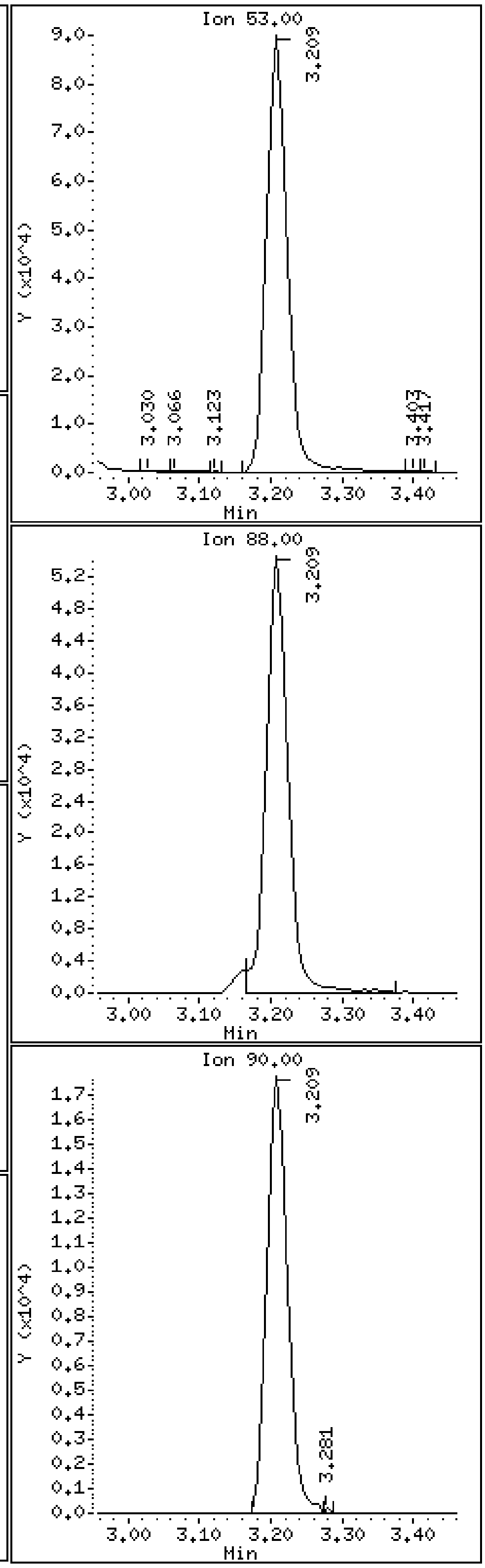
Column diameter: 0.18

26 chloroprene

Concentration: 51.6 ppb

Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

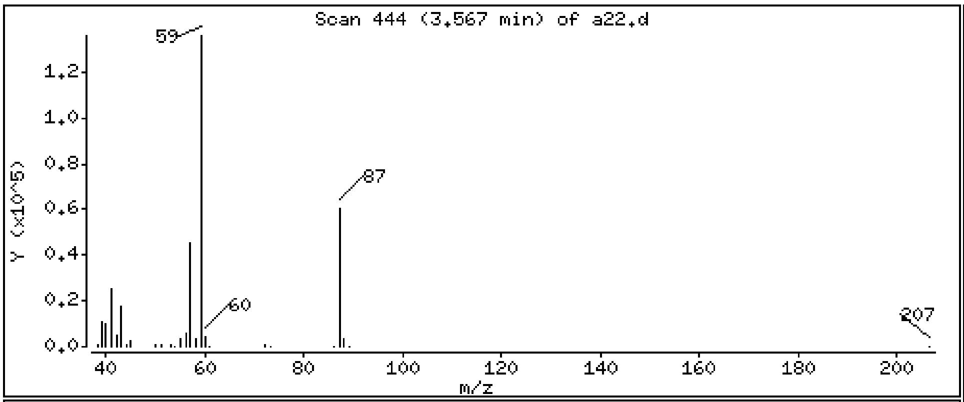
Column phase: DB-624

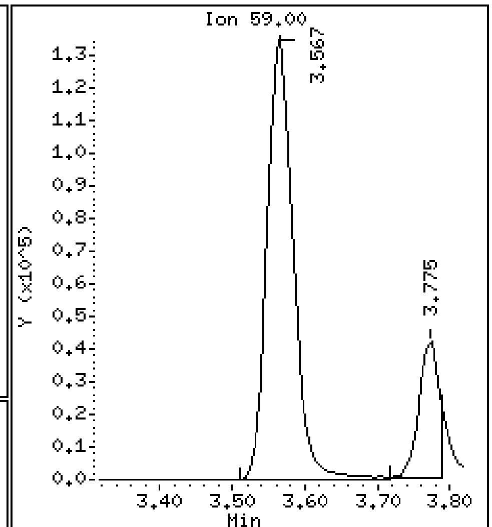
Column diameter: 0.18

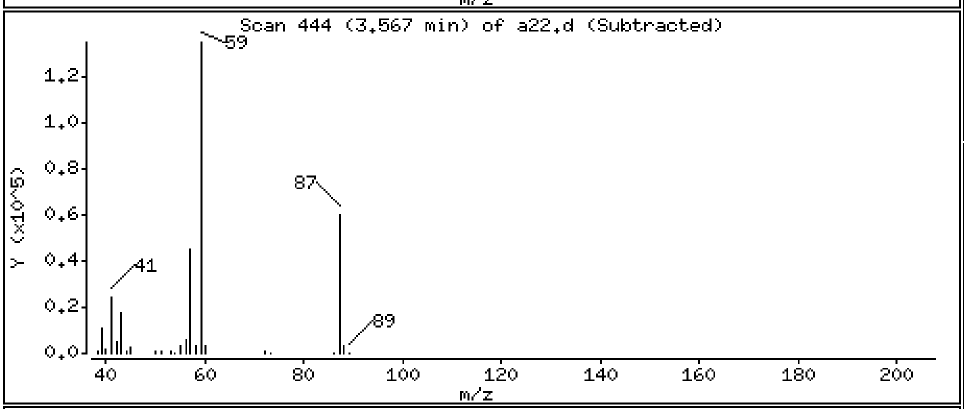
27 Ethyl-tert-butyl ether

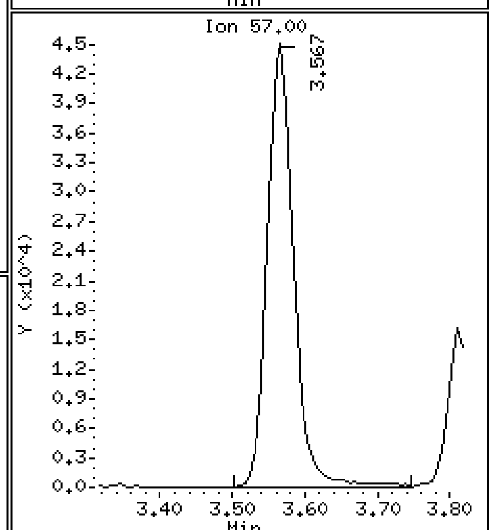
Concentration: 48.5 ppb

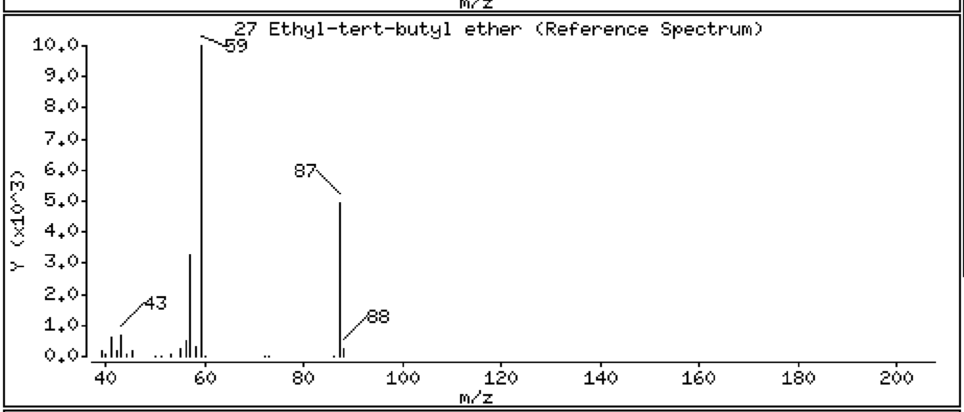
Review Code:

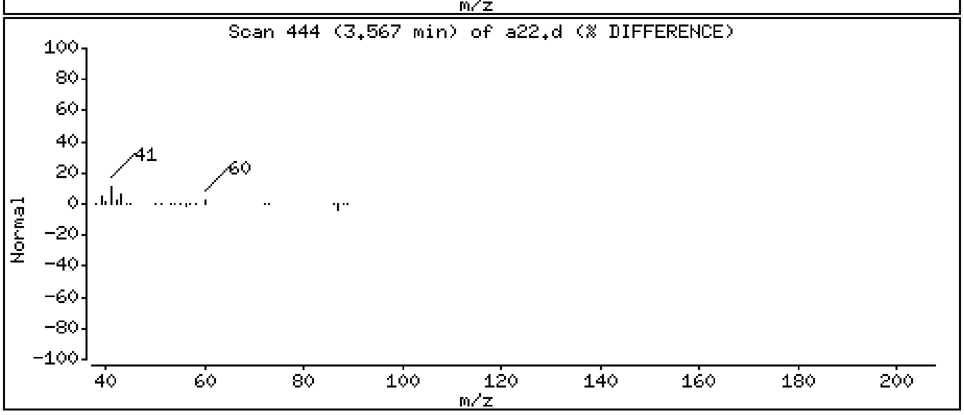












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

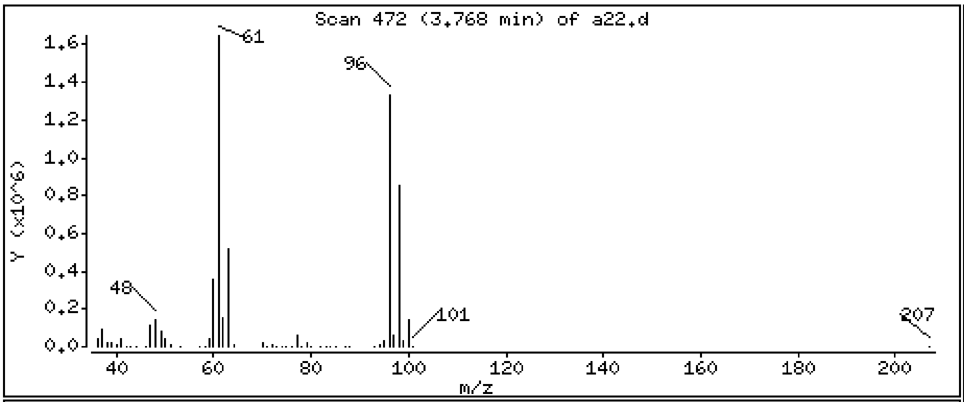
Column phase: DB-624

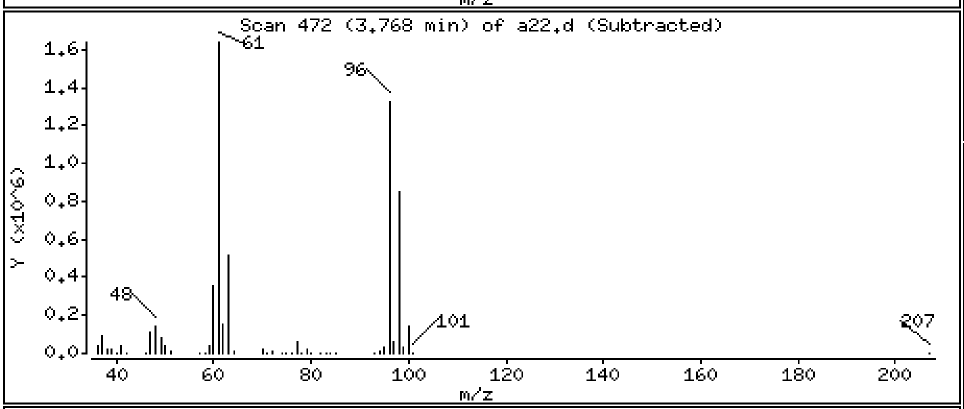
Column diameter: 0.18

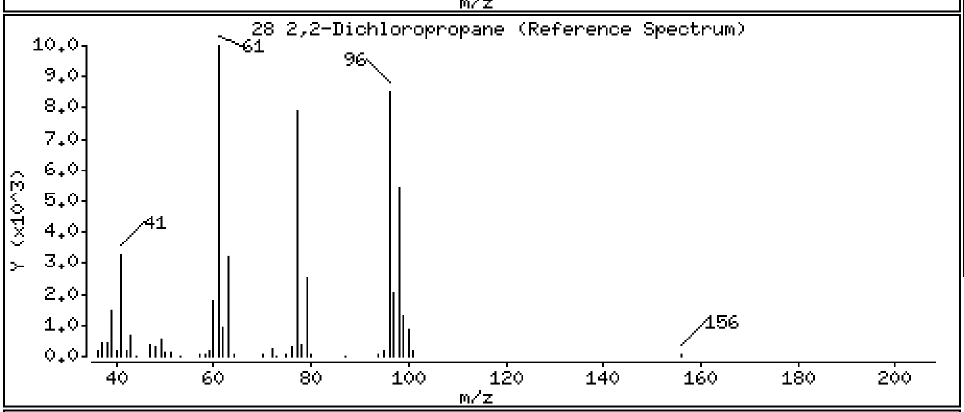
28 2,2-Dichloropropane

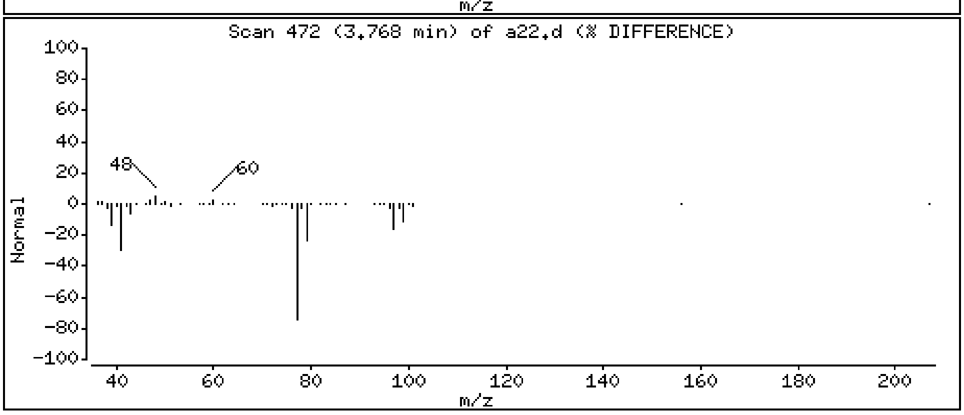
Concentration: 50.4 ppb

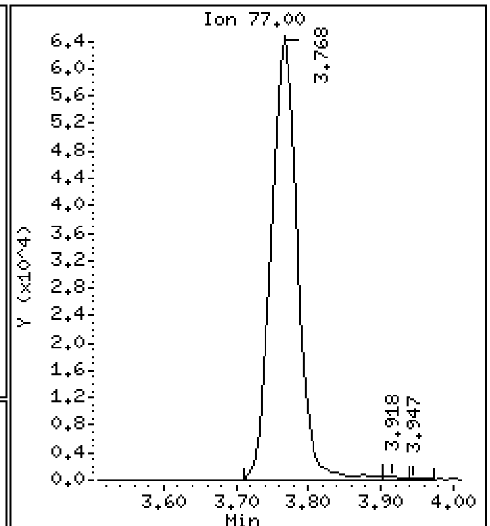
Review Code:

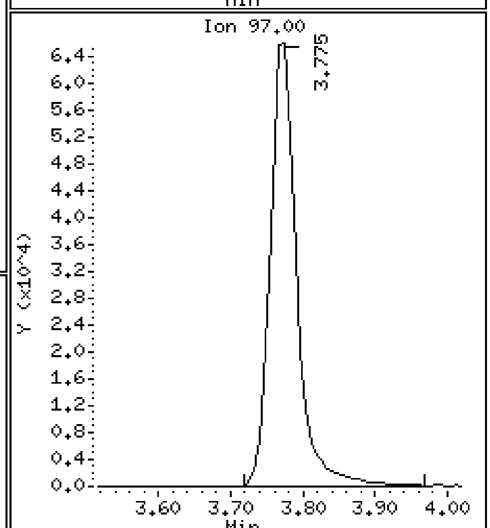












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Date : 23-JAN-2023 20:03

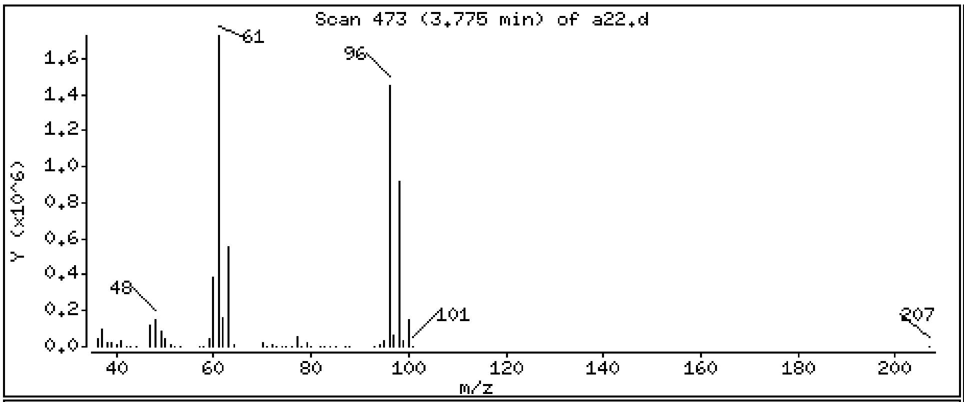
Client ID: LA2268MSD Instrument: 50mvda.i

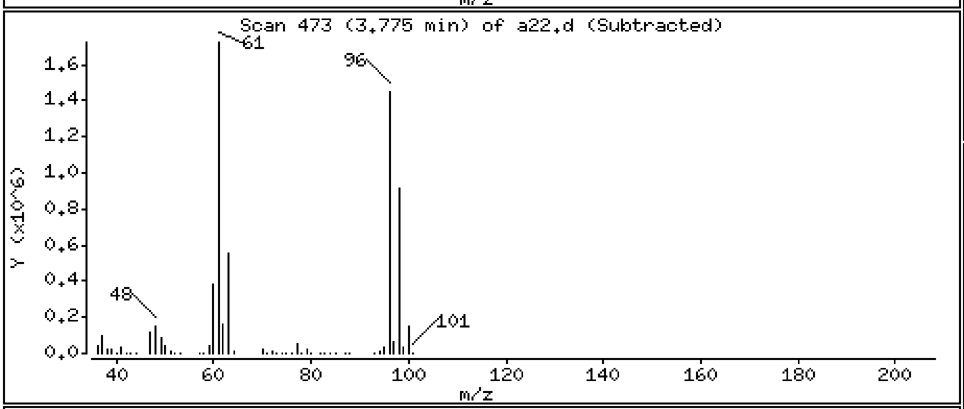
Sample Info: 3287470,336256:5

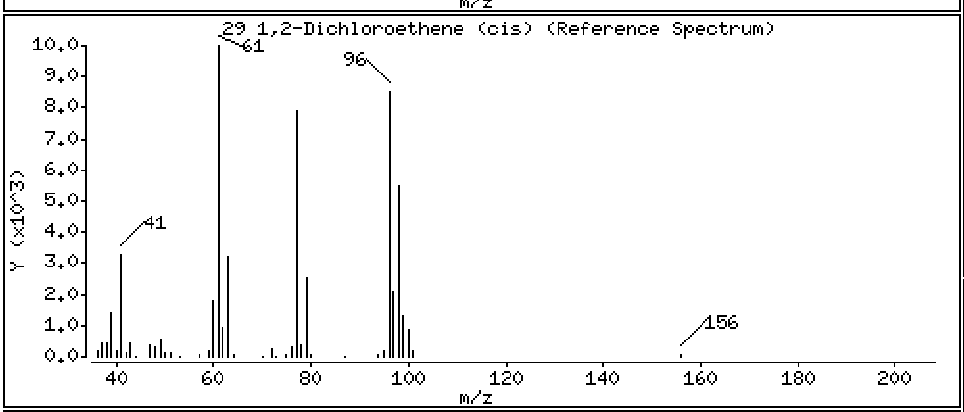
Purge Volume: 5.0 Operator: tkg

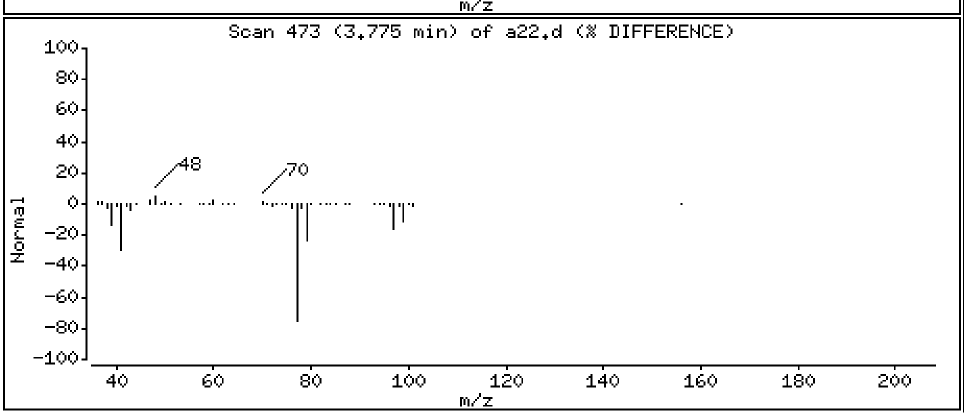
Column phase: DB-624 Column diameter: 0.18

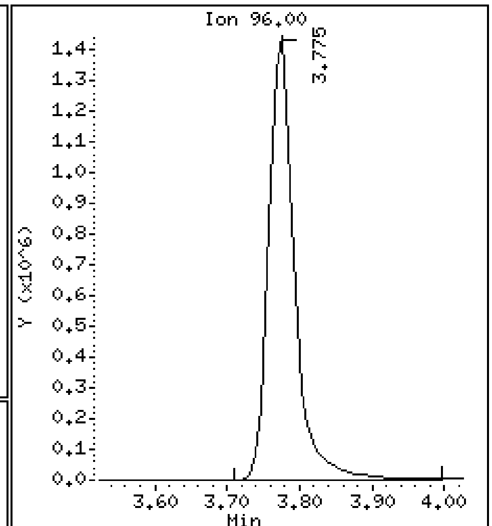
29 1,2-Dichloroethene (cis) Concentration: 1230 ppb Review Code:

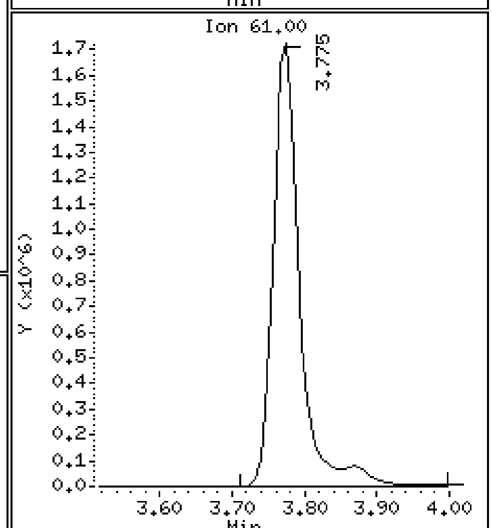


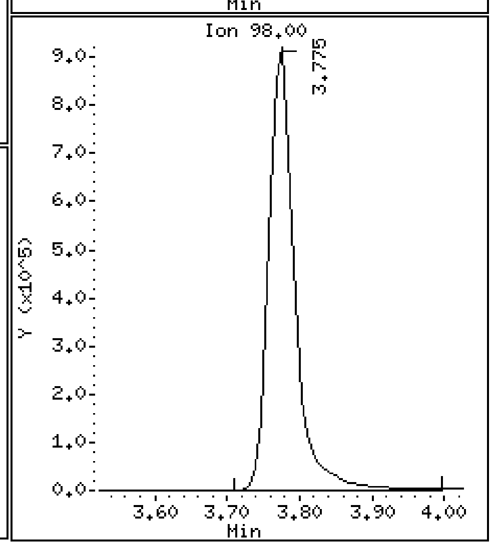












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

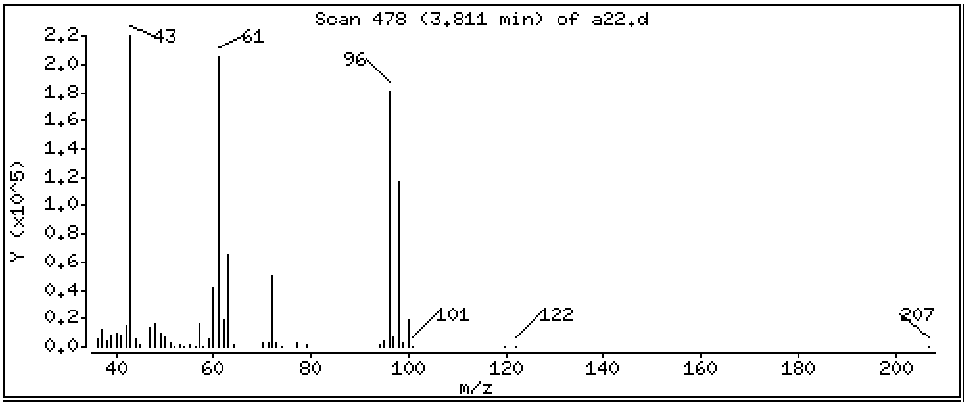
Column phase: DB-624

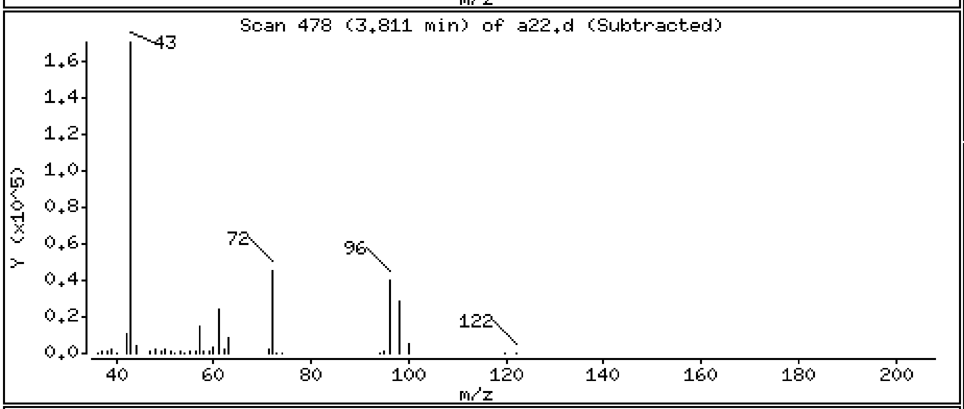
Column diameter: 0.18

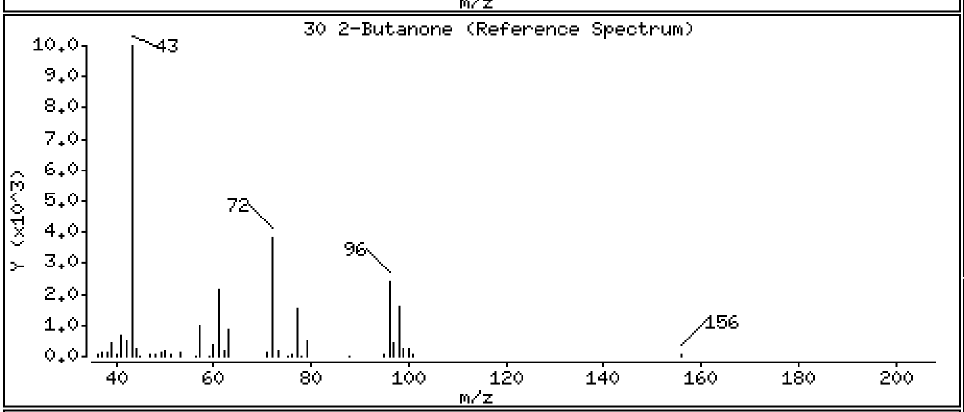
30 2-Butanone

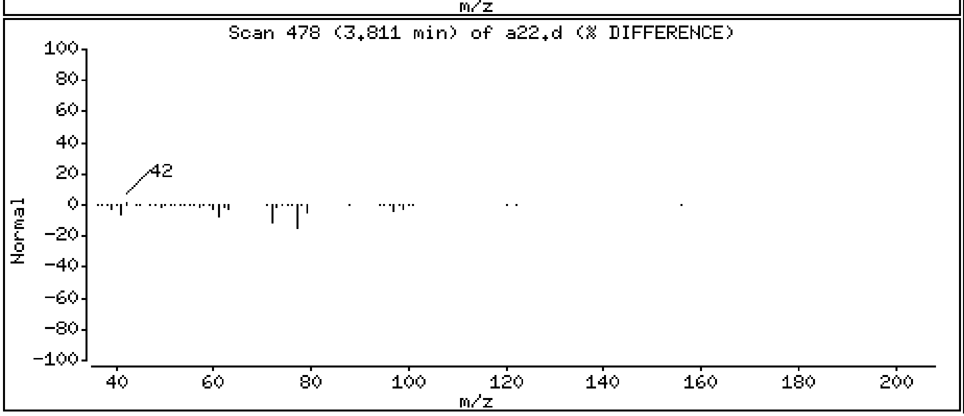
Concentration: 227 ppb

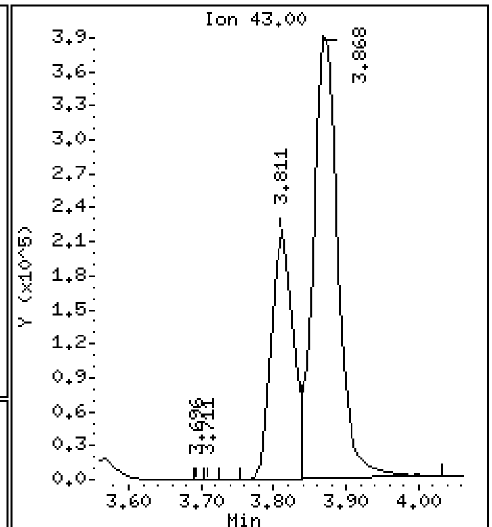
Review Code:

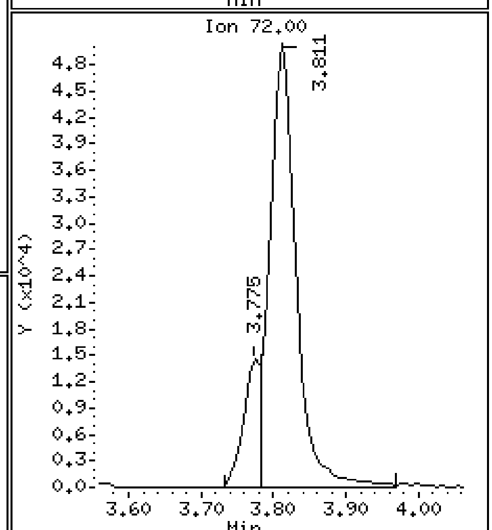


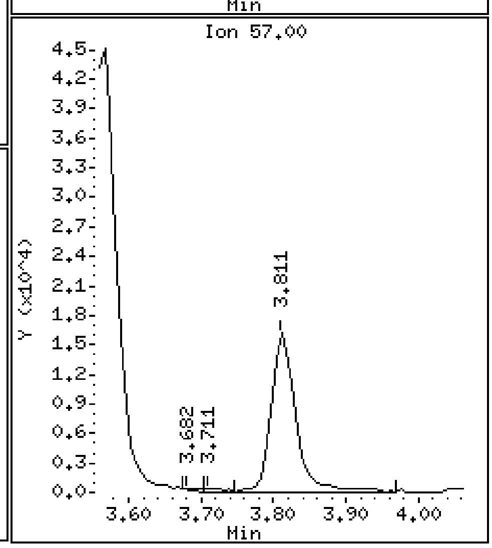












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

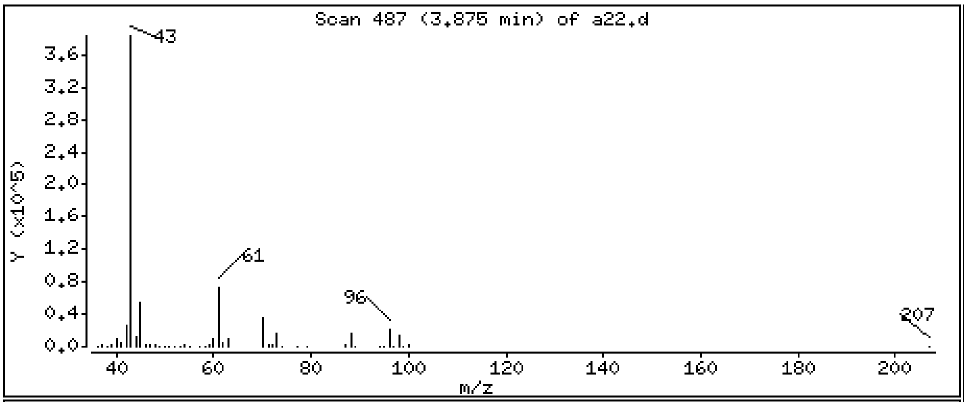
Column phase: DB-624

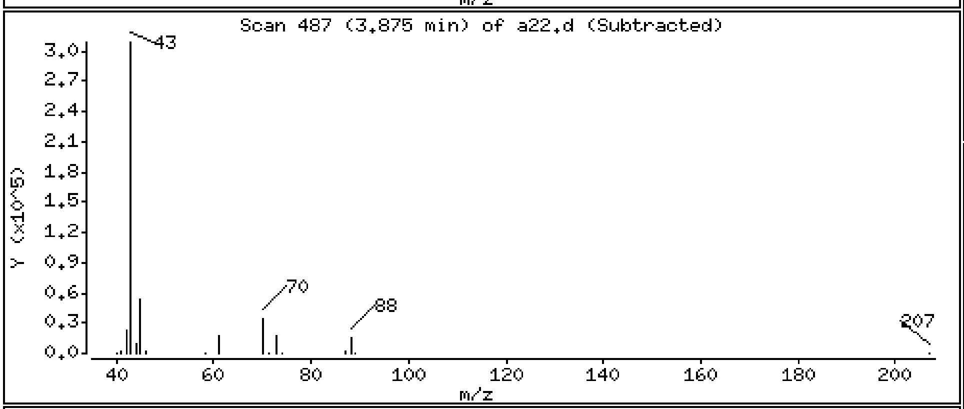
Column diameter: 0.18

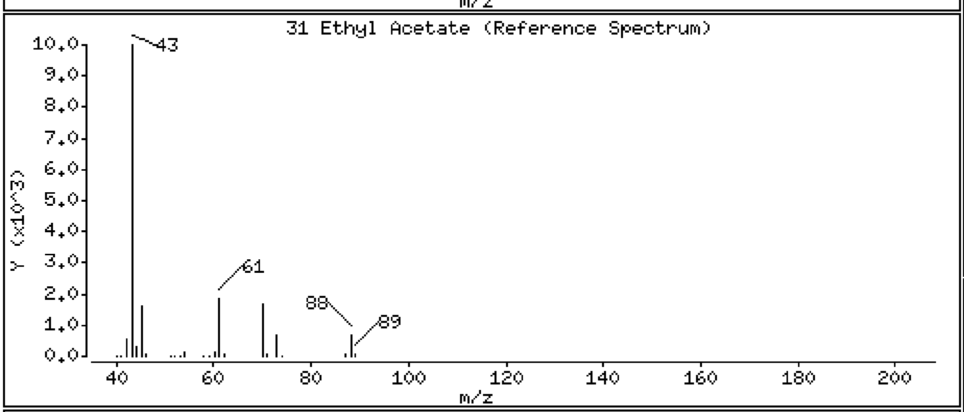
31 Ethyl Acetate

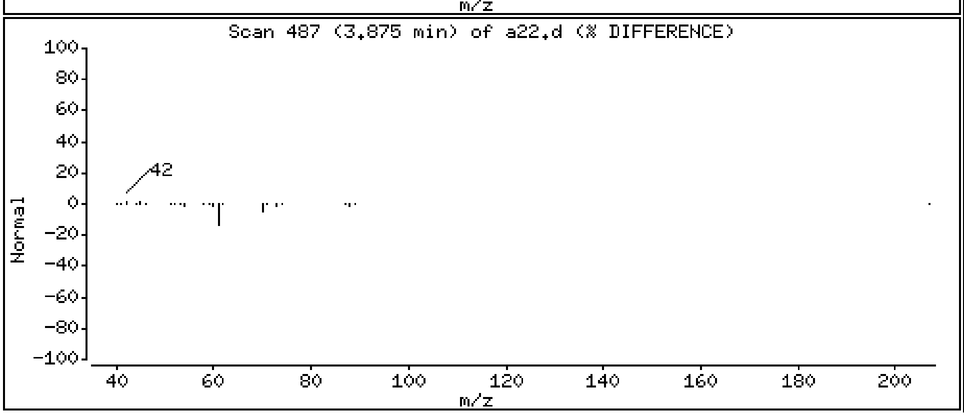
Concentration: 238 ppb

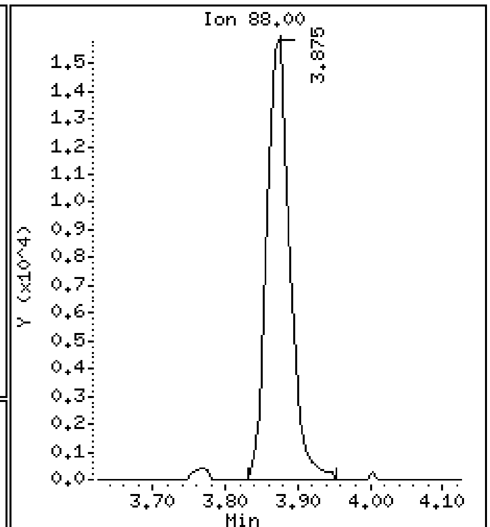
Review Code:

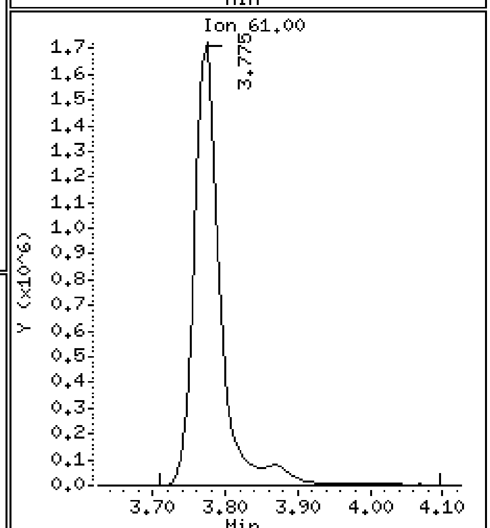


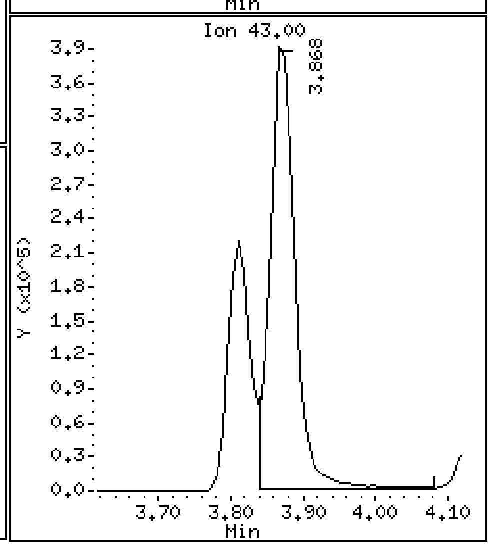












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

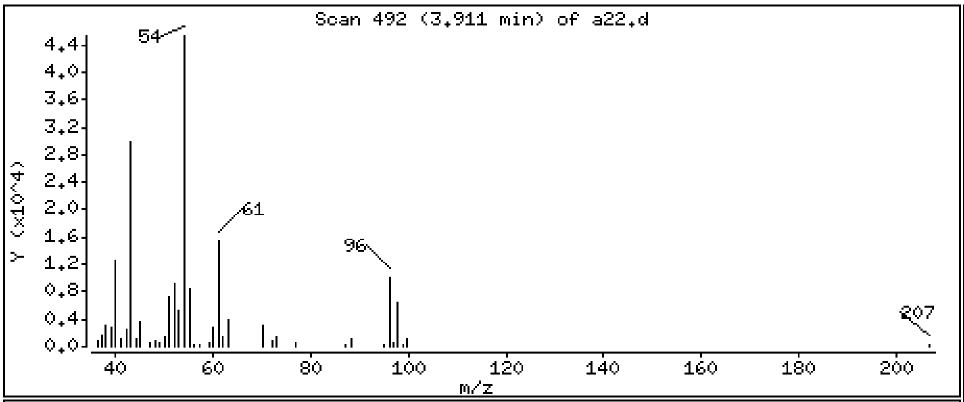
Column phase: DB-624

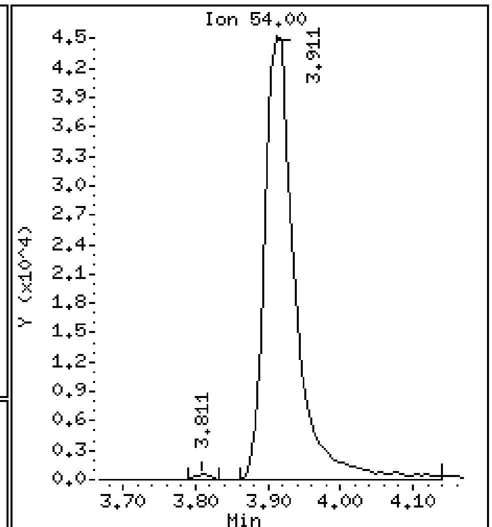
Column diameter: 0.18

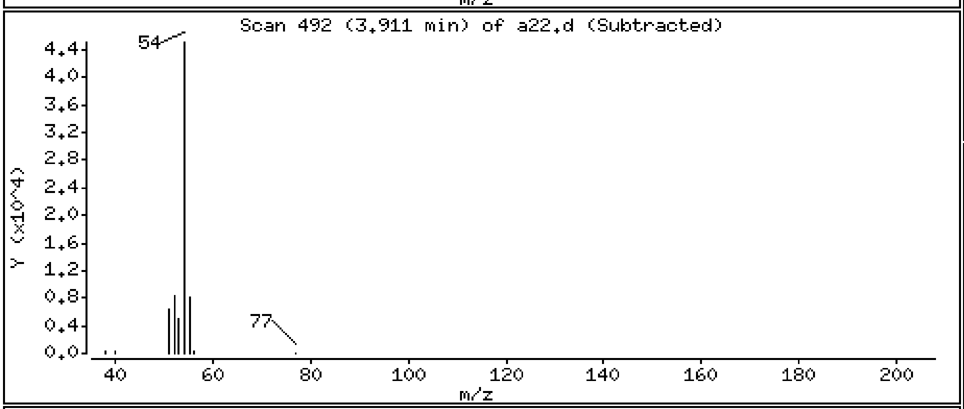
32 Propionitrile

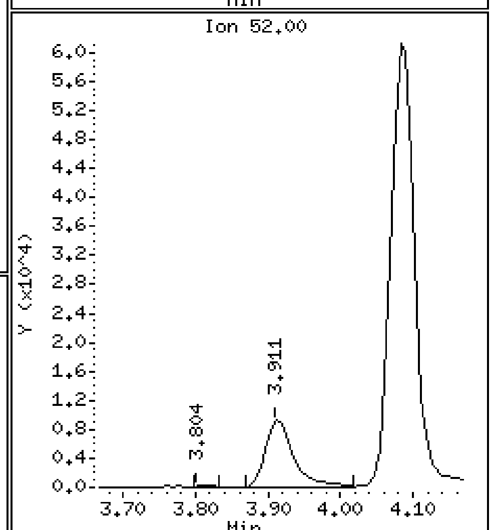
Concentration: 225 ppb

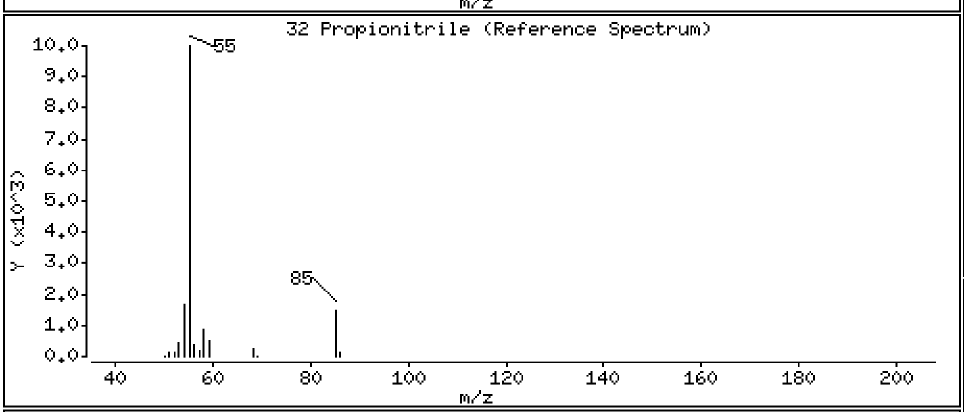
Review Code:

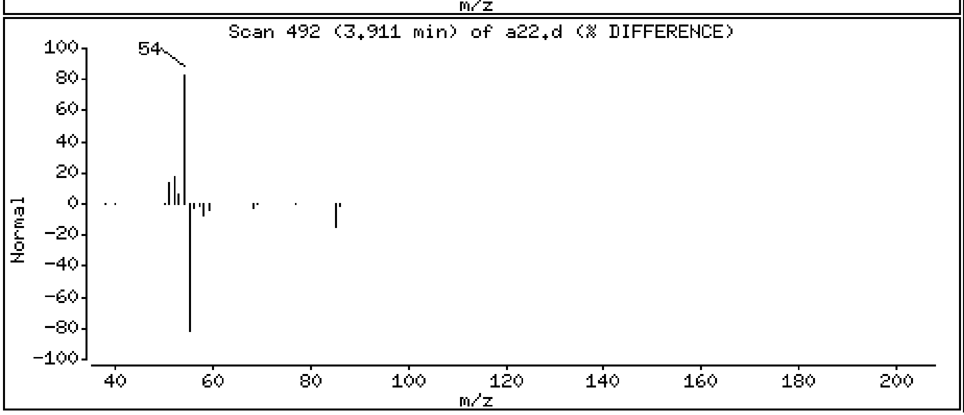


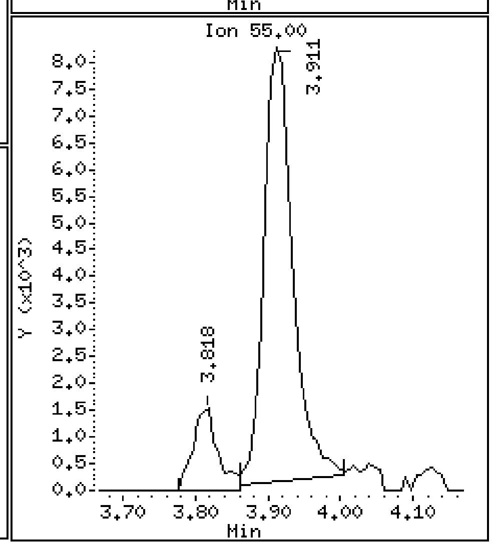












Date : 23-JAN-2023 20:03

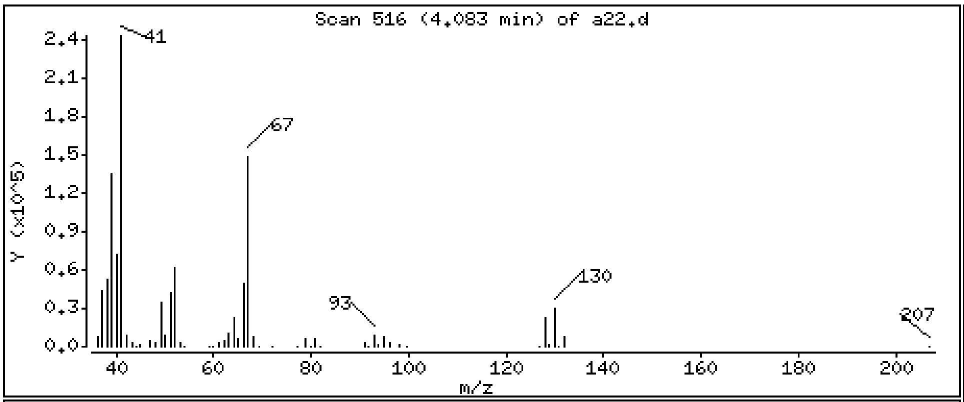
Client ID: LA2268MSD Instrument: 50mvda.i

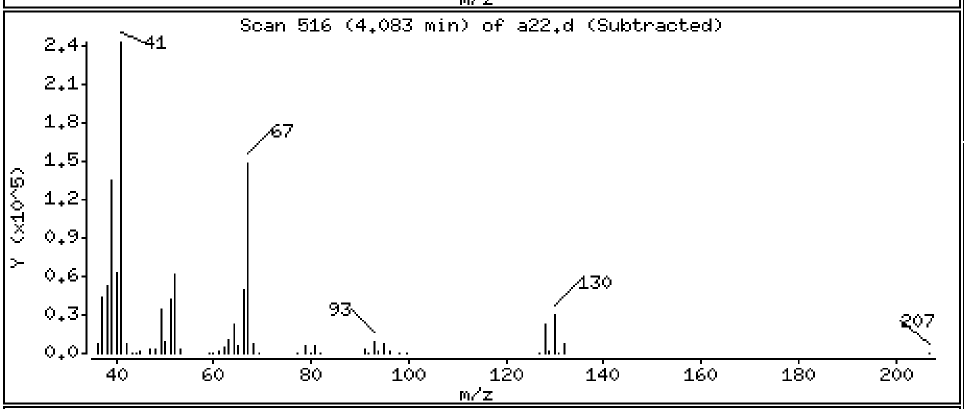
Sample Info: 3287470,336256:5

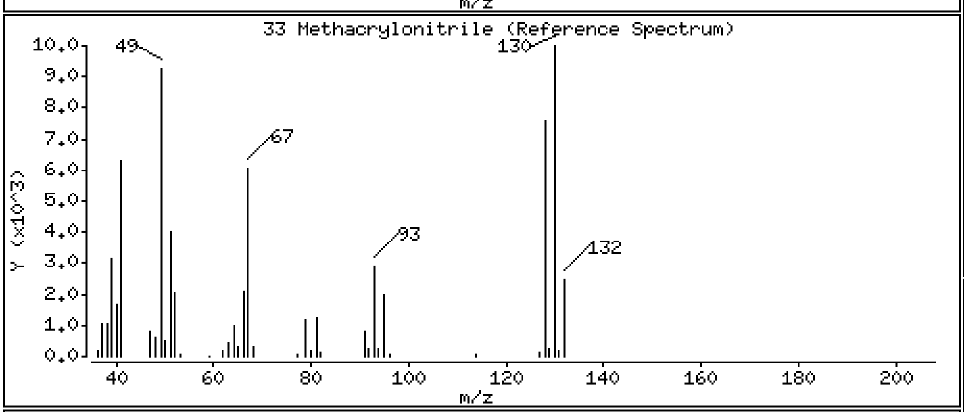
Purge Volume: 5.0 Operator: tkg

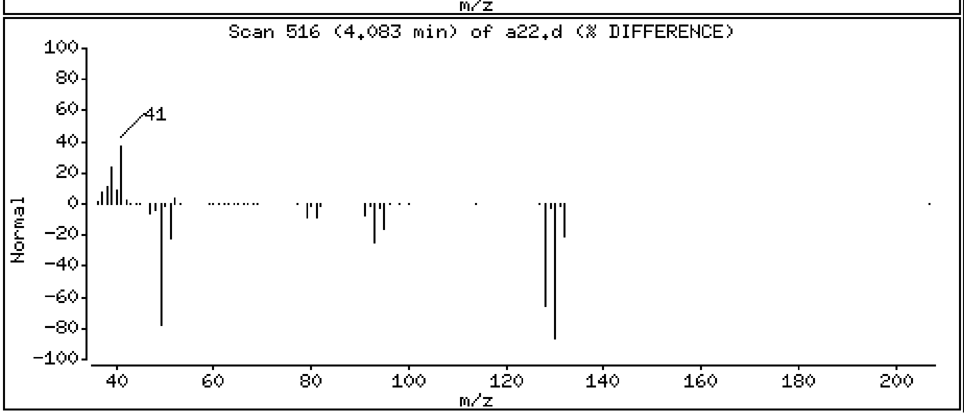
Column phase: DB-624 Column diameter: 0.18

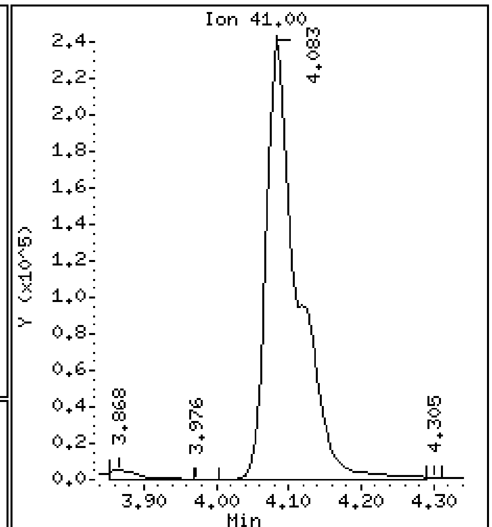
33 Methacrylonitrile Concentration: 222 ppb Review Code:

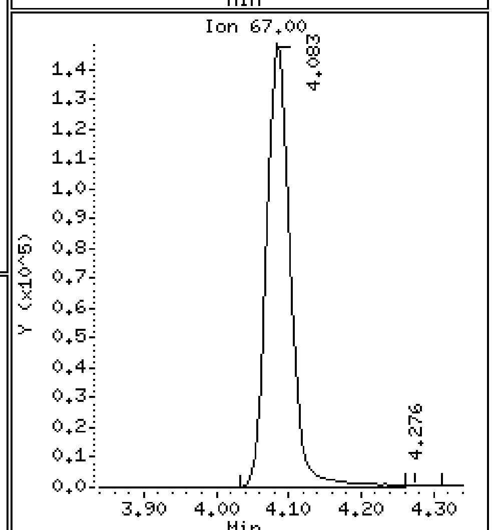


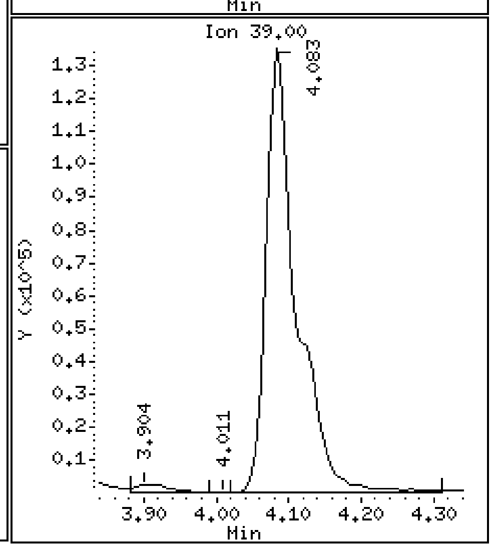












Date : 23-JAN-2023 20:03

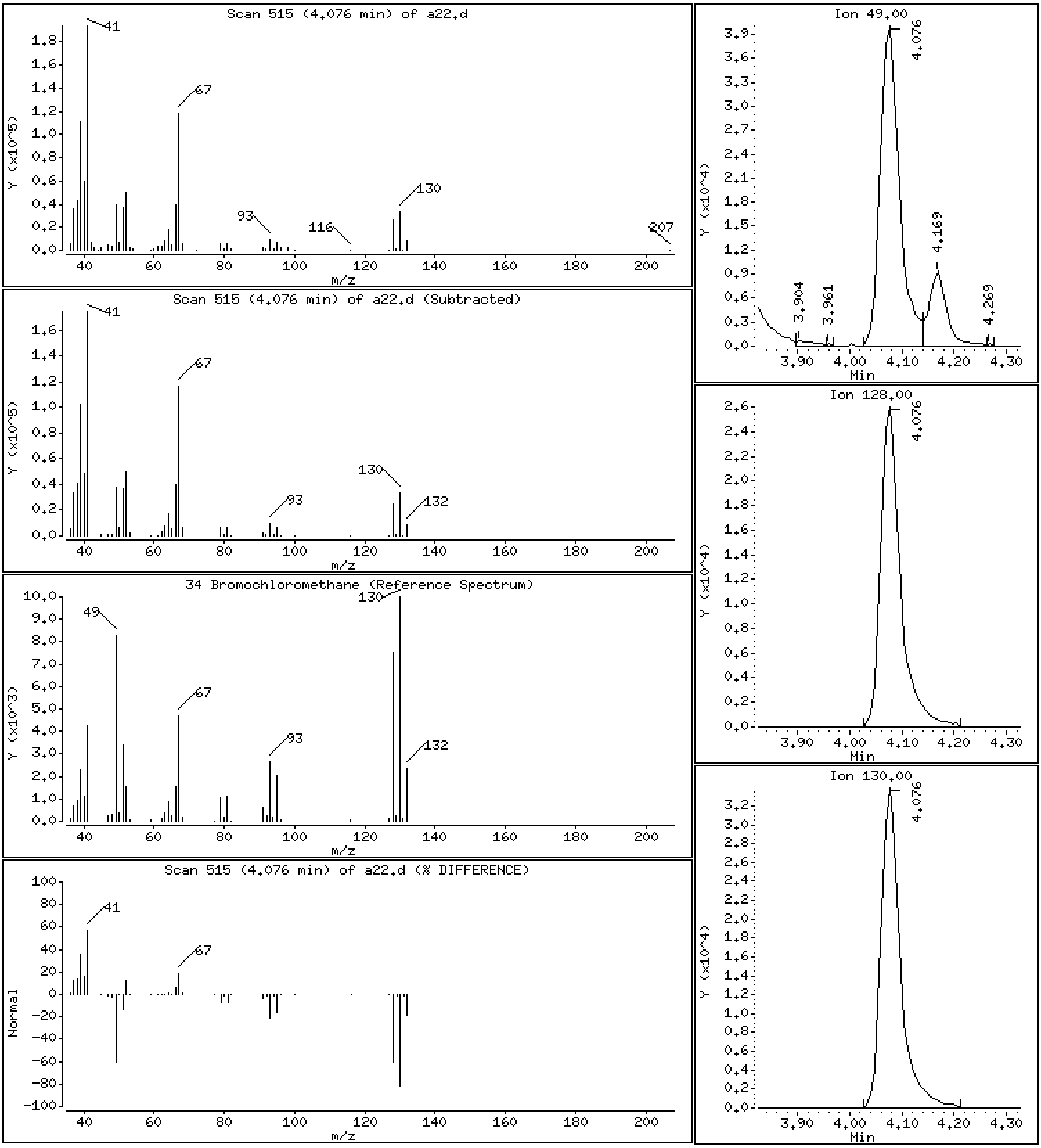
Client ID: LA2268MSD Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

34 Bromochloromethane Concentration: 48.7 ppb Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

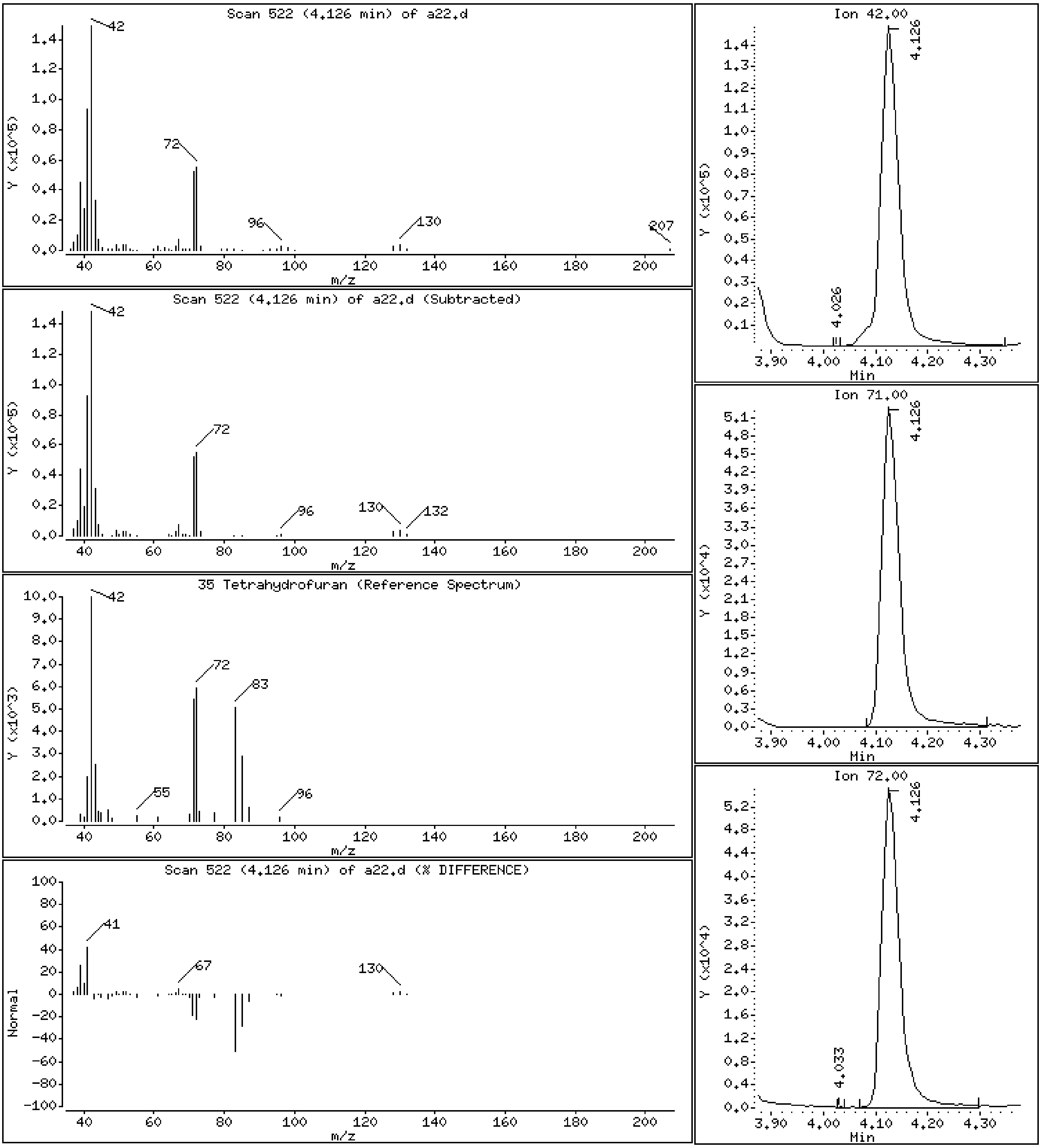
Column phase: DB-624

Column diameter: 0.18

35 Tetrahydrofuran

Concentration: 218 ppb

Review Code:



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Date : 23-JAN-2023 20:03

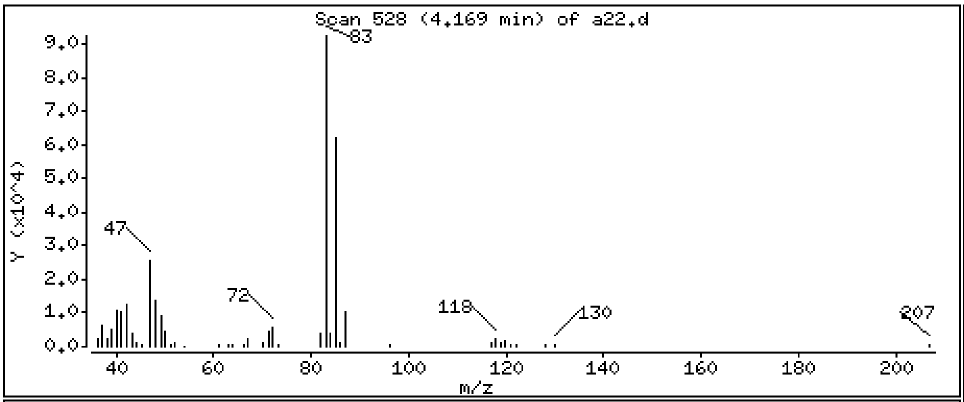
Client ID: LA2268MSD Instrument: 50mvda.i

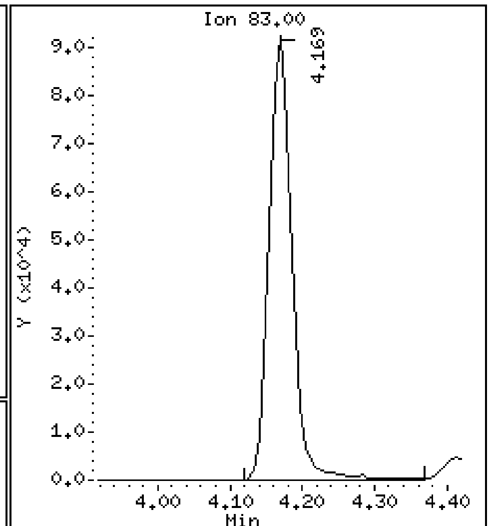
Sample Info: 3287470,336256:5

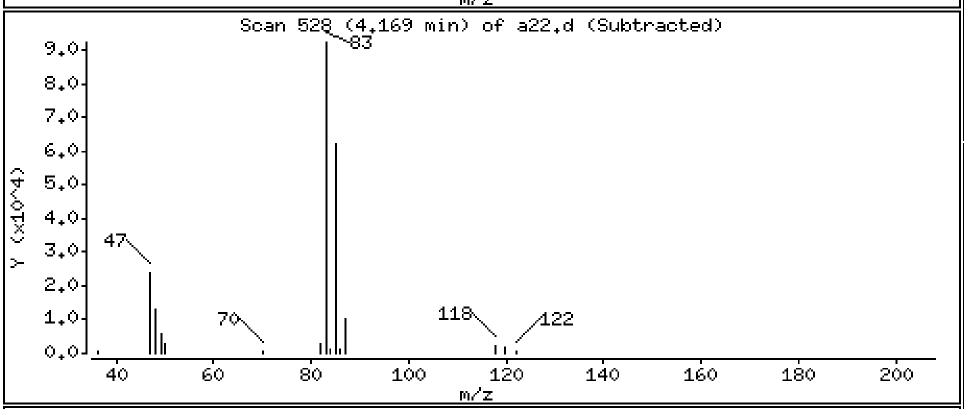
Purge Volume: 5.0 Operator: tkg

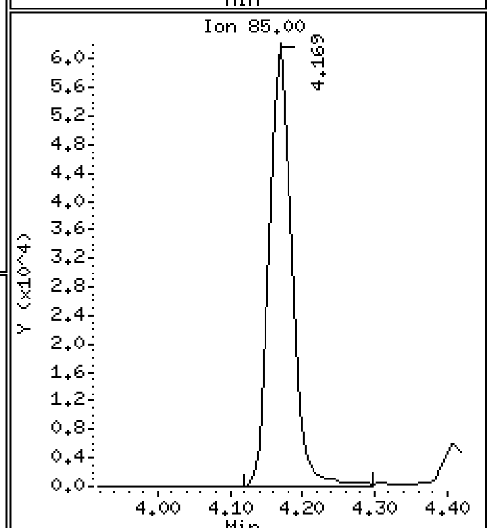
Column phase: DB-624 Column diameter: 0.18

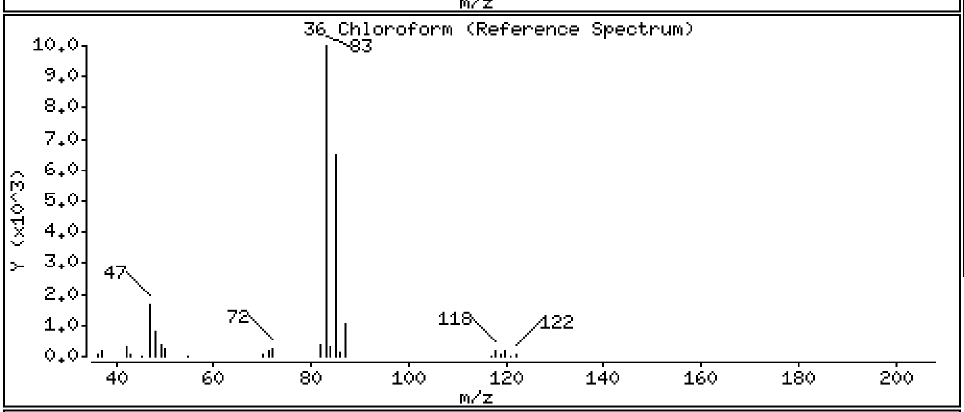
36 Chloroform Concentration: 49.7 ppb Review Code:

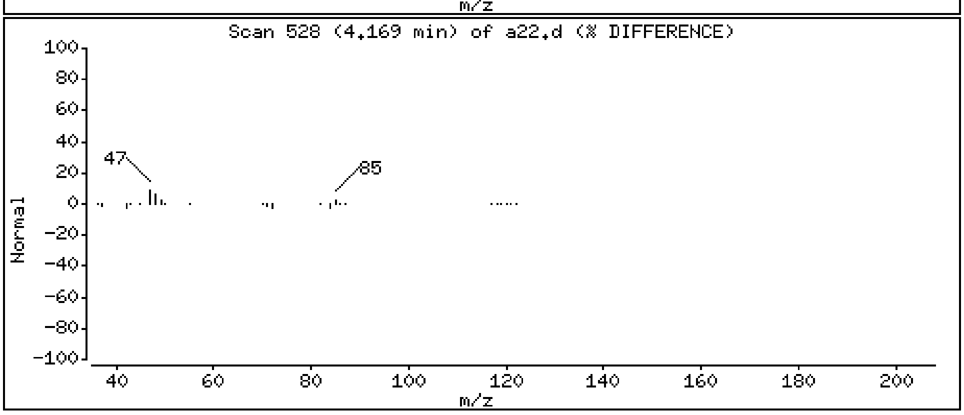












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

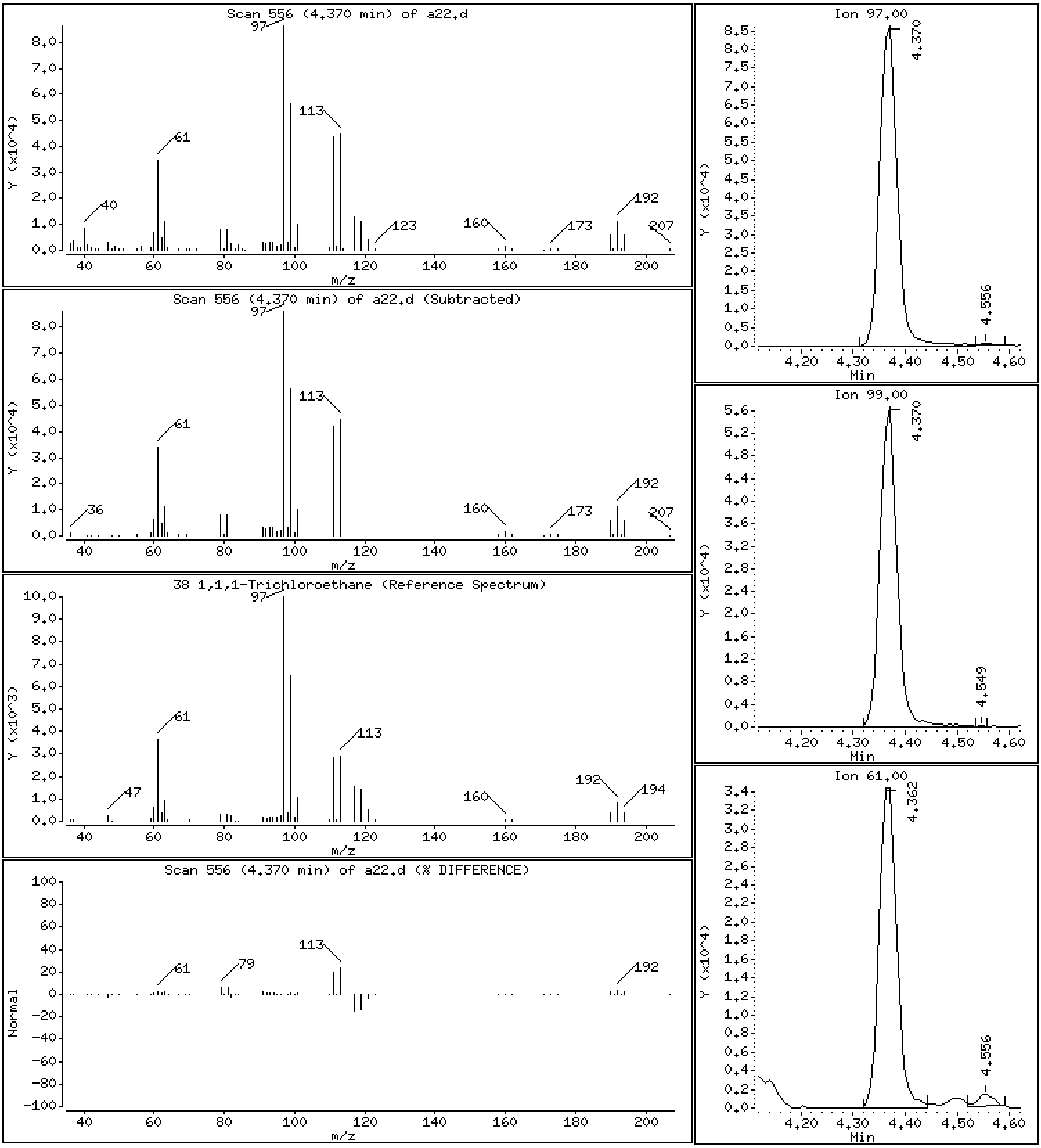
Column phase: DB-624

Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 55.3 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

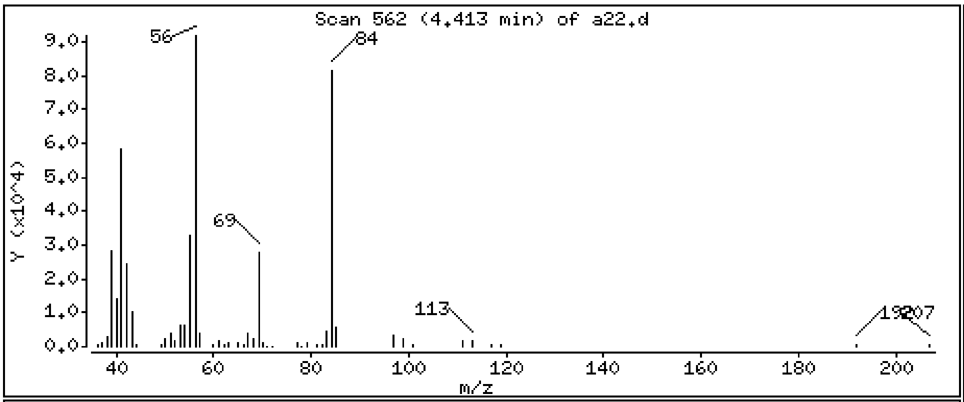
Column phase: DB-624

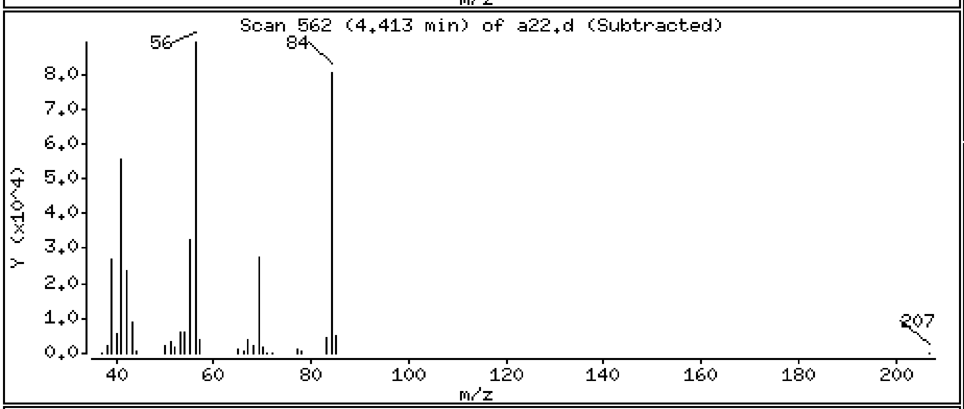
Column diameter: 0.18

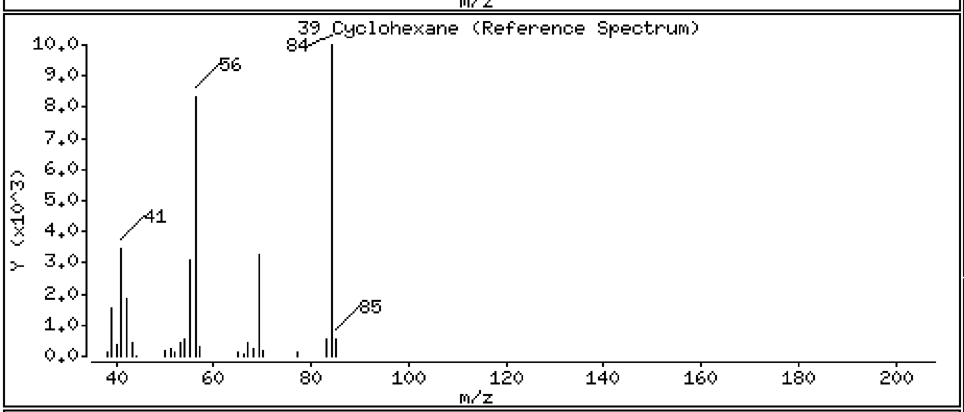
39 Cyclohexane

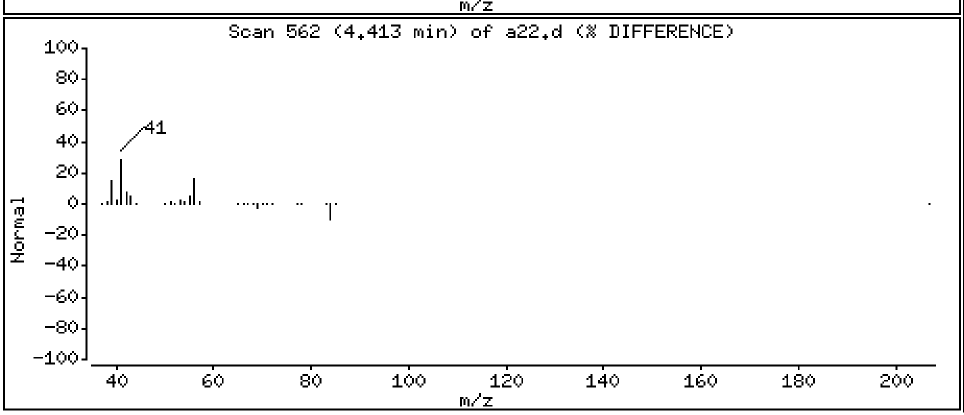
Concentration: 45.5 ppb

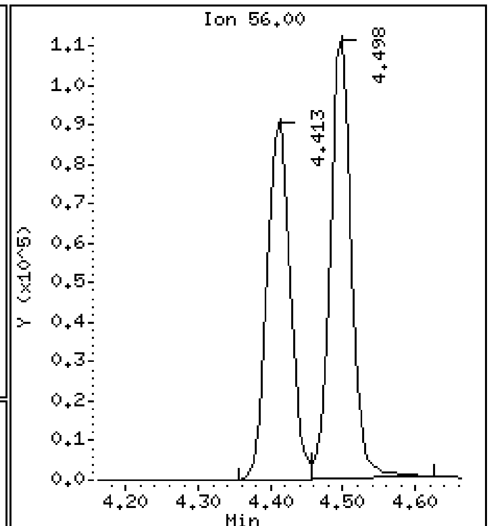
Review Code:

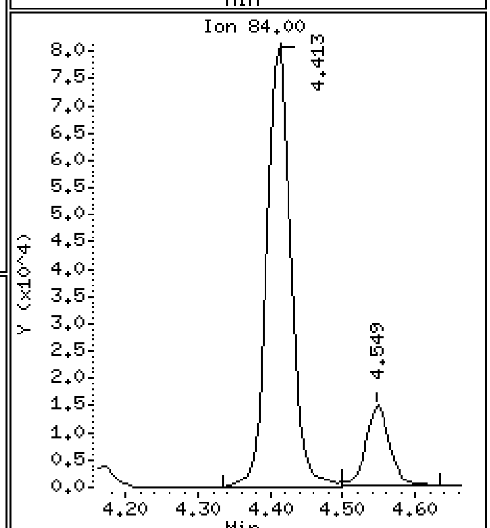


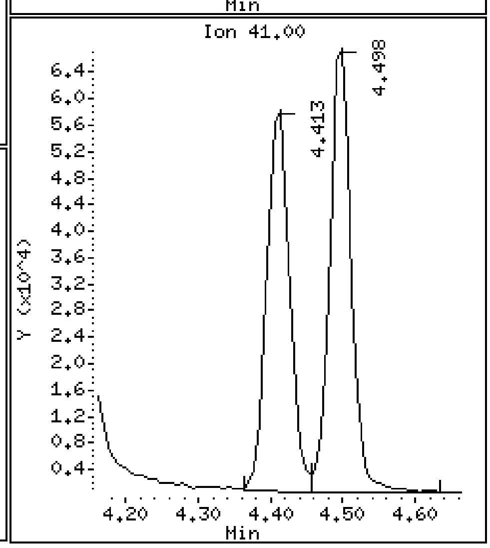












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

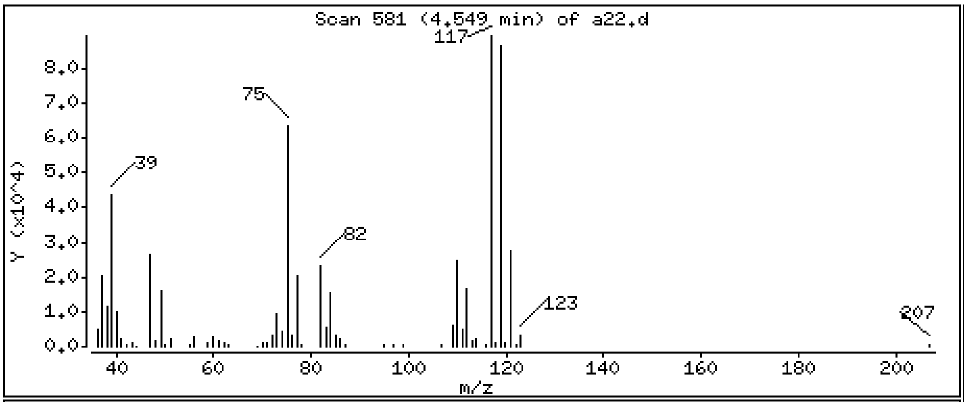
Column phase: DB-624

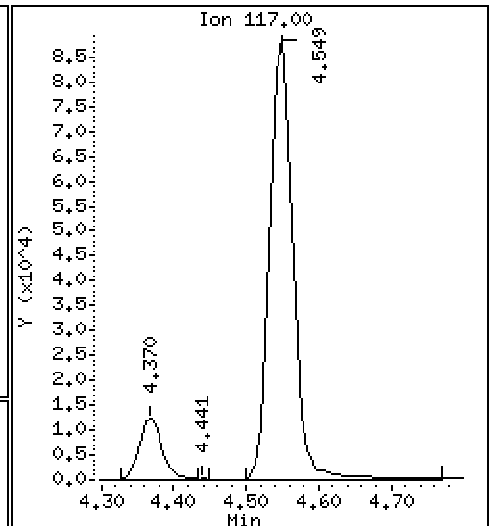
Column diameter: 0.18

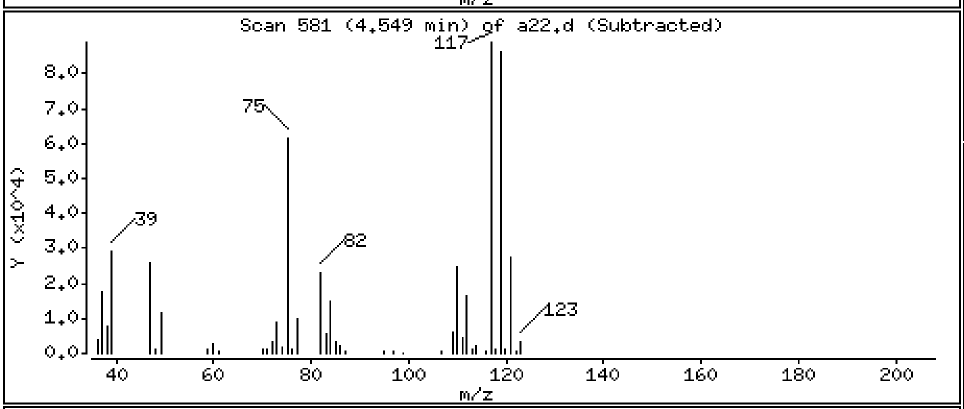
40 Carbon Tetrachloride

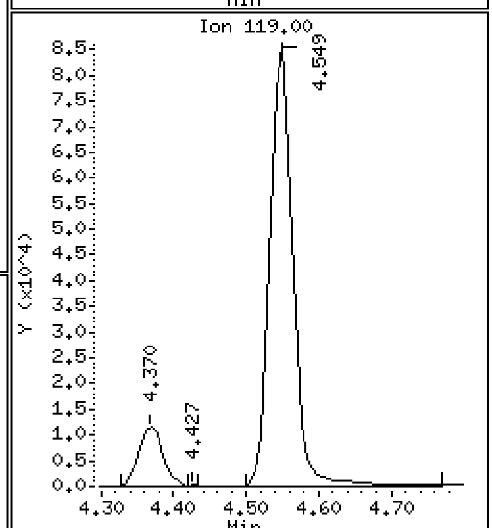
Concentration: 59.8 ppb

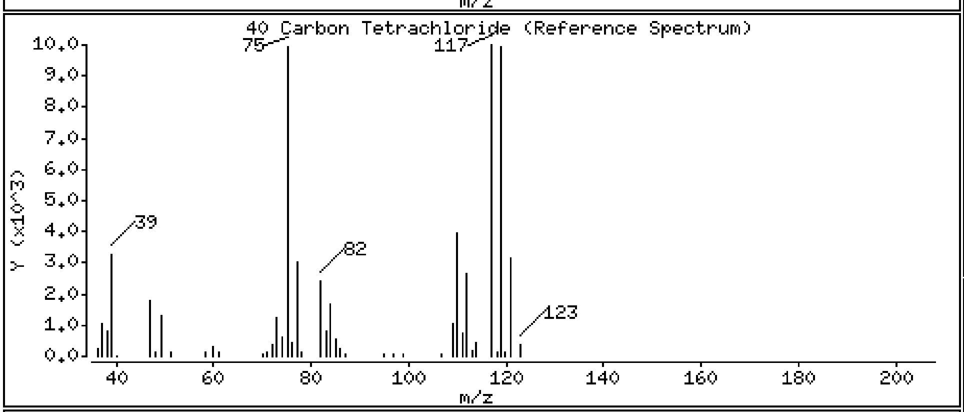
Review Code:

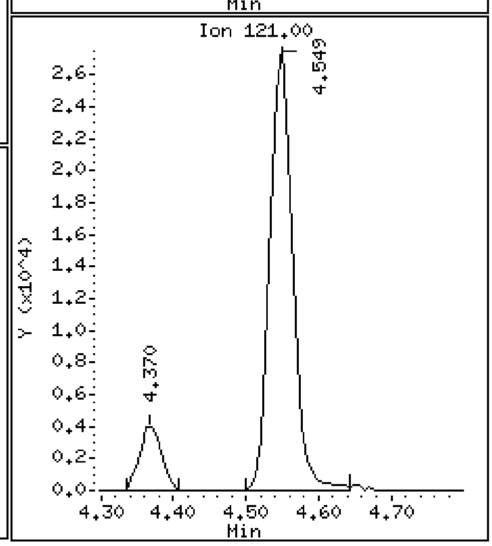


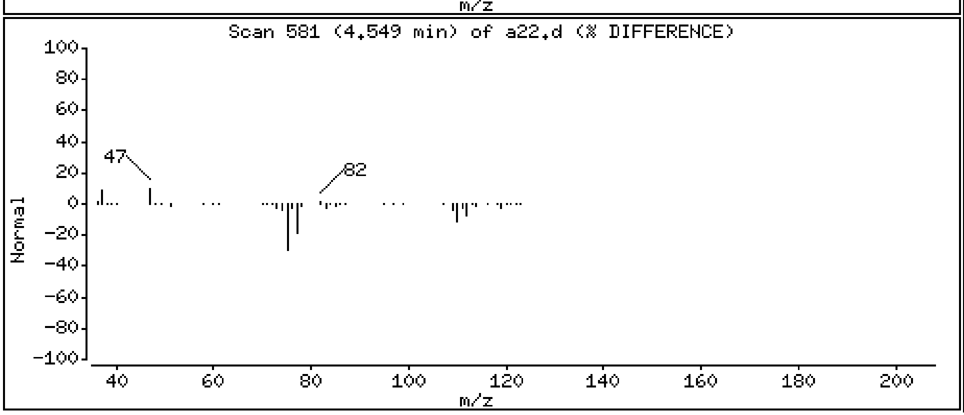












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

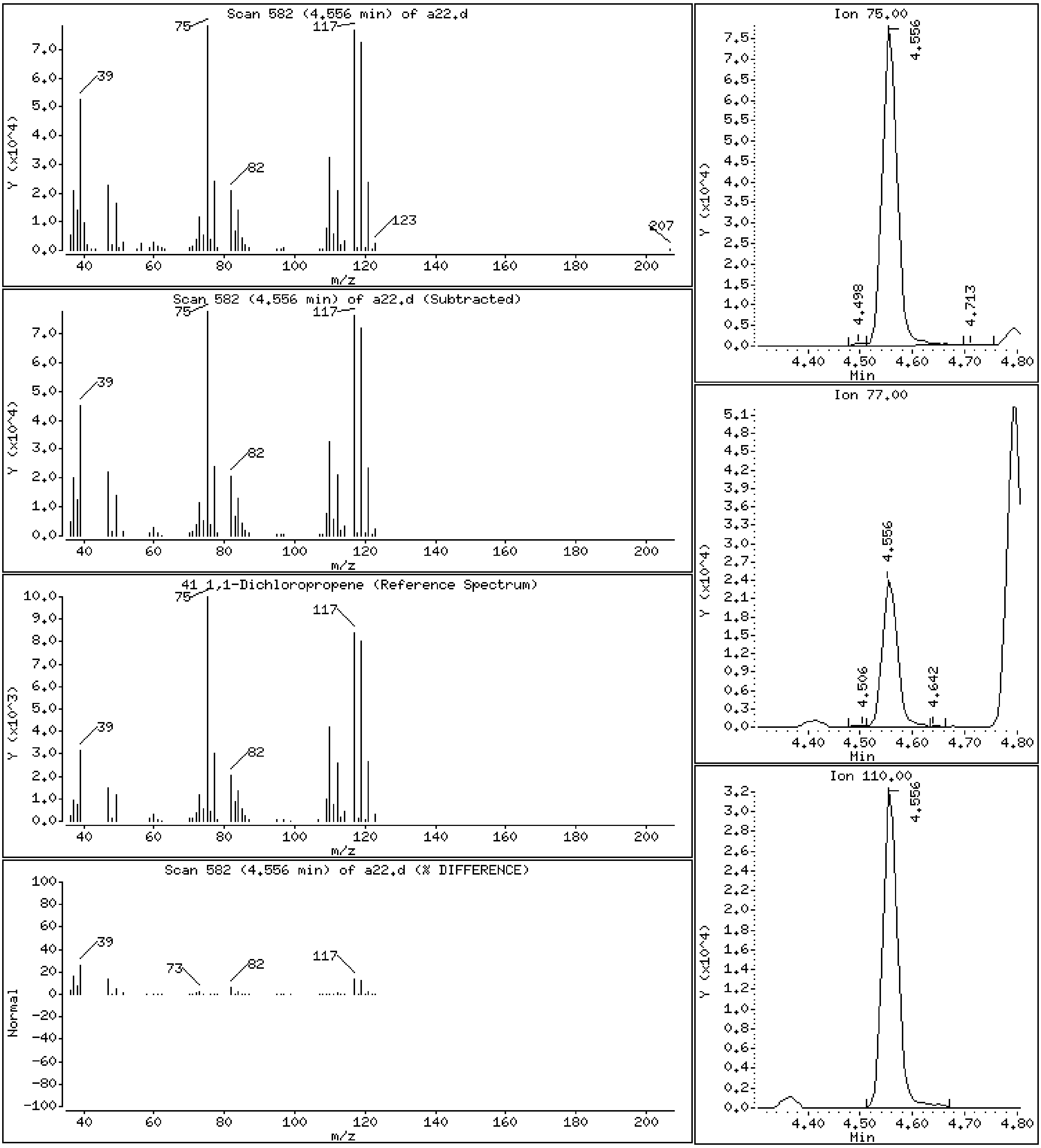
Column phase: DB-624

Column diameter: 0.18

41 1,1-Dichloropropene

Concentration: 52.6 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

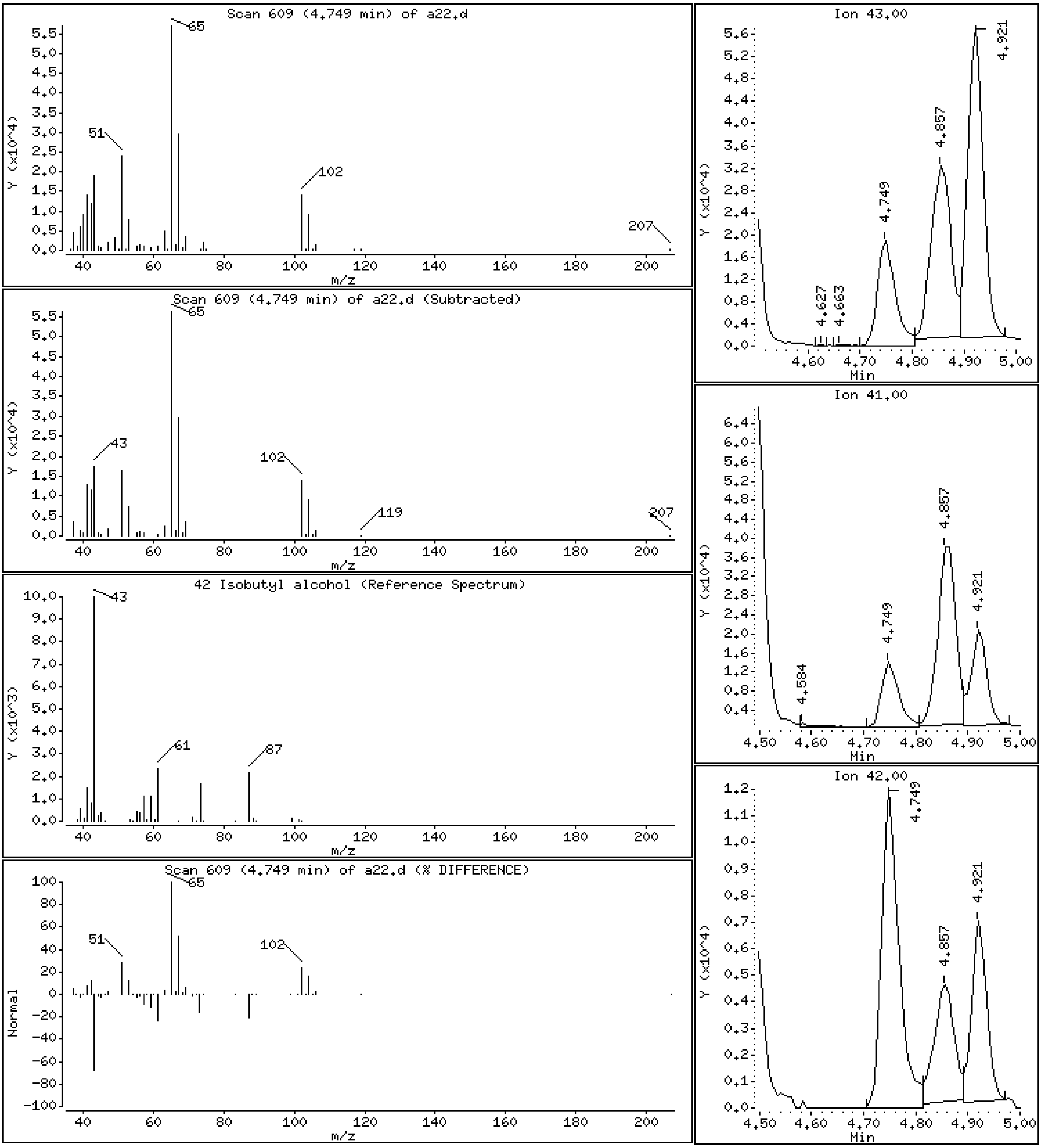
Column phase: DB-624

Column diameter: 0.18

42 Isobutyl alcohol

Concentration: 225 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

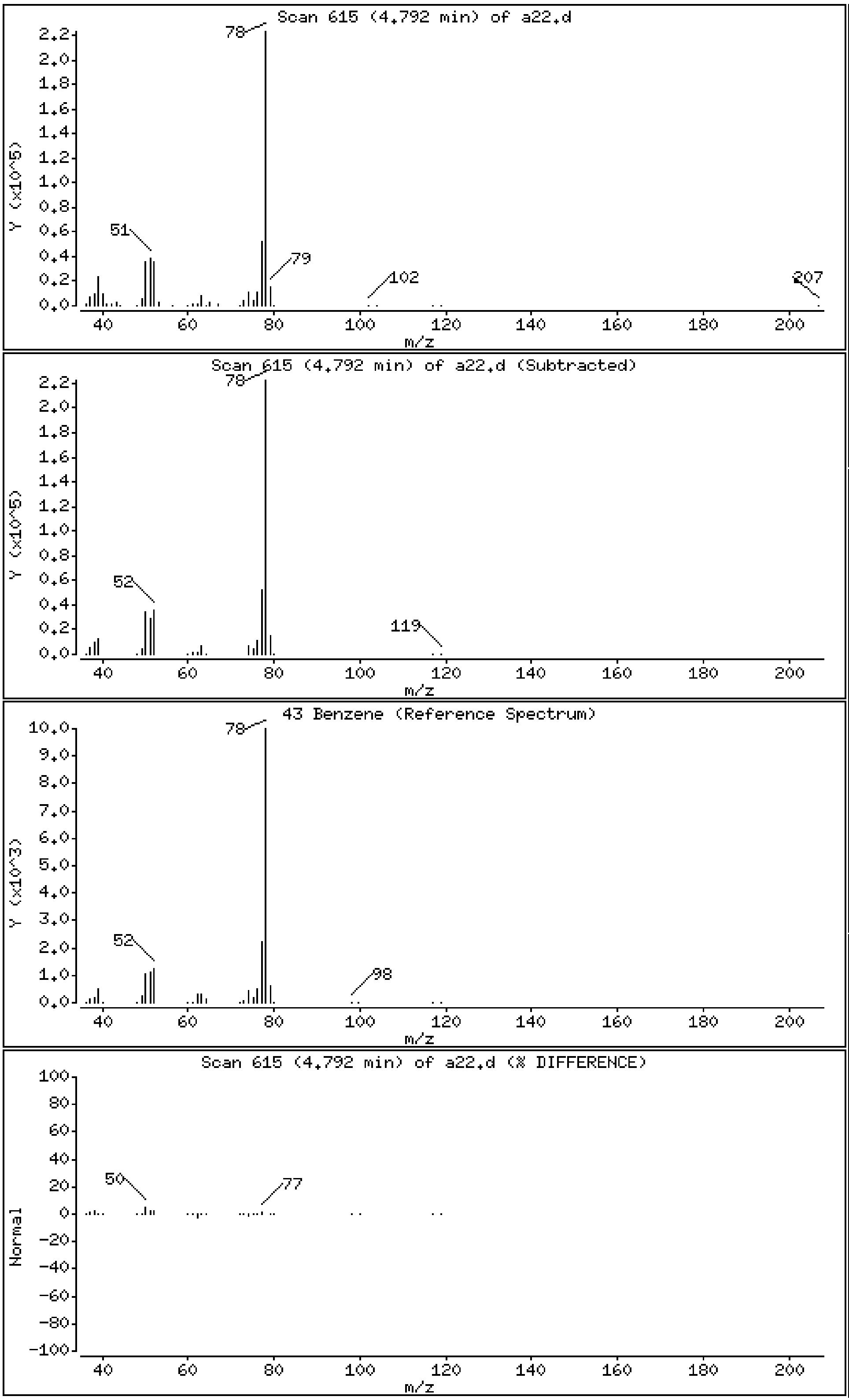
Column phase: DB-624

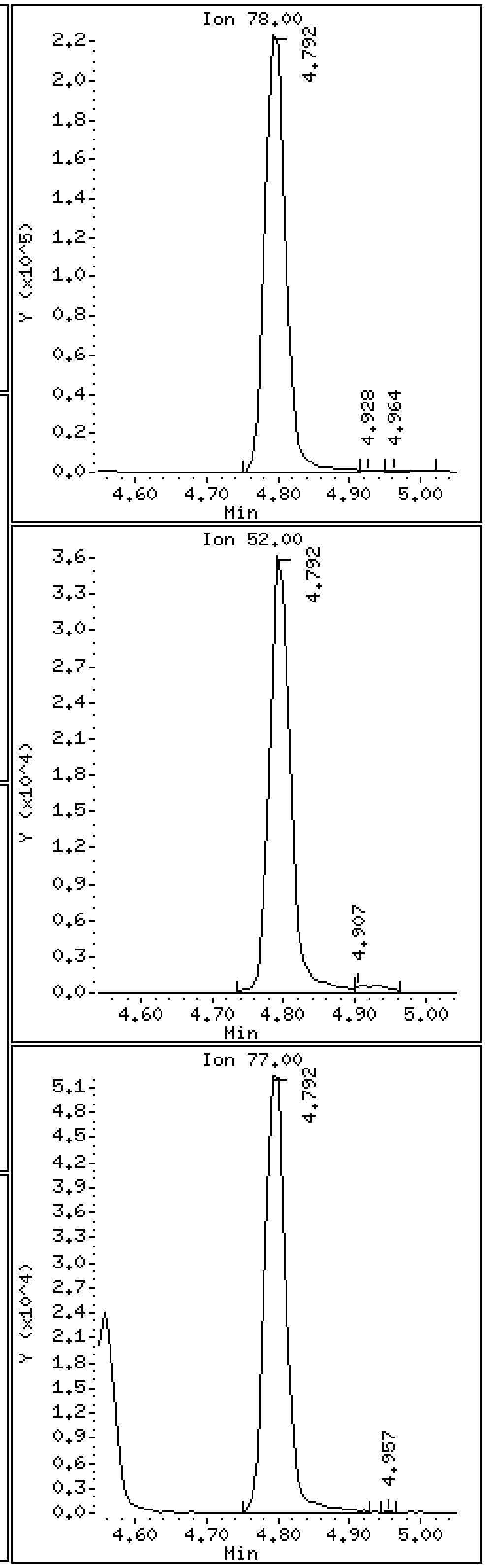
Column diameter: 0.18

43 Benzene

Concentration: 48.4 ppb

Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

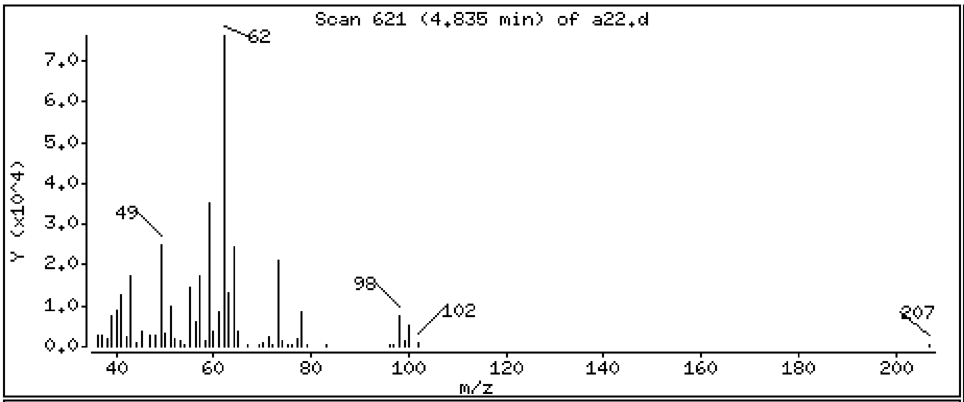
Column phase: DB-624

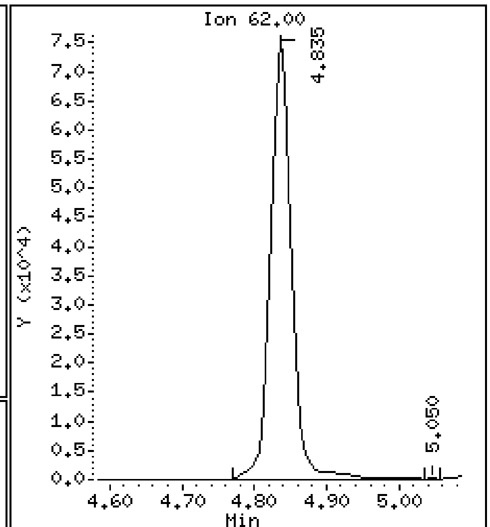
Column diameter: 0.18

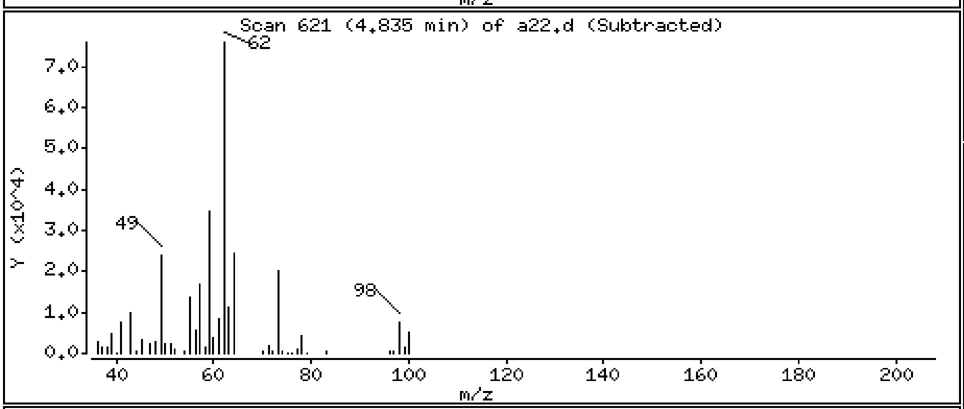
44 1,2-Dichloroethane

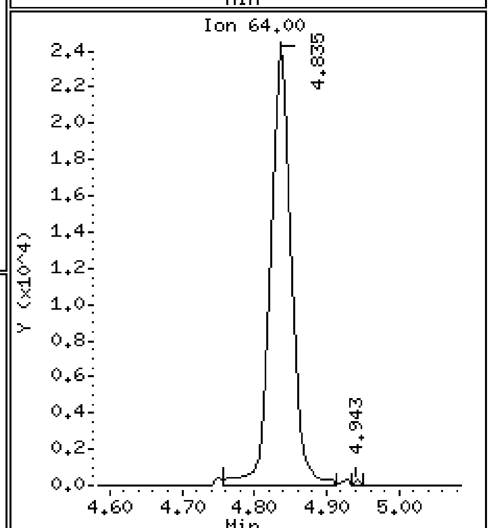
Concentration: 51.5 ppb

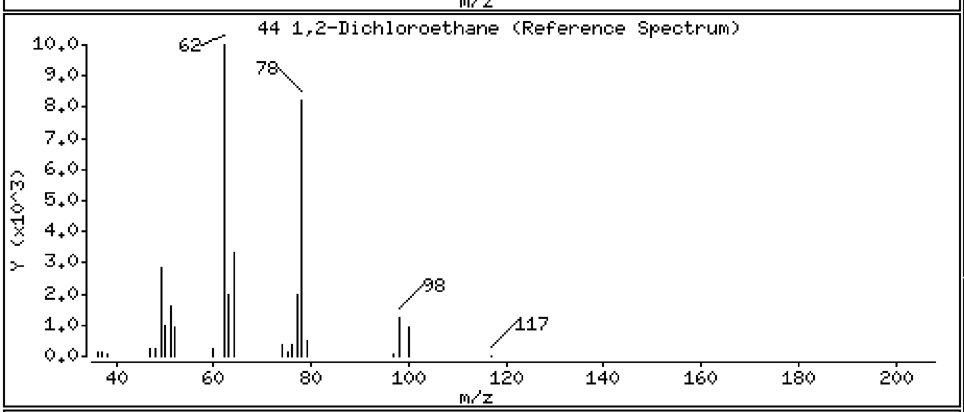
Review Code:

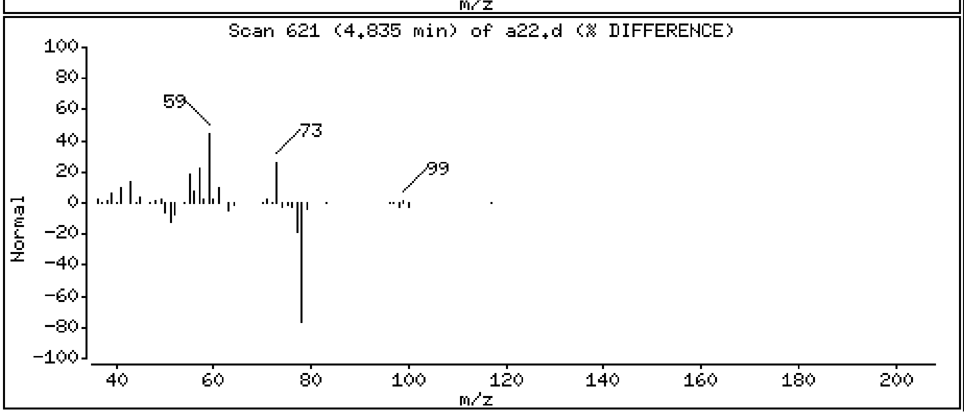


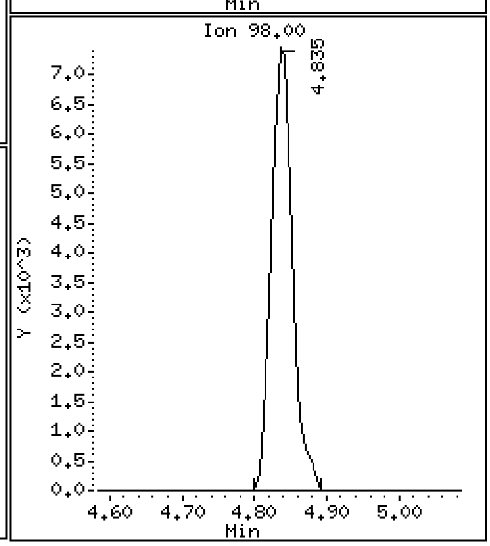












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Date : 23-JAN-2023 20:03

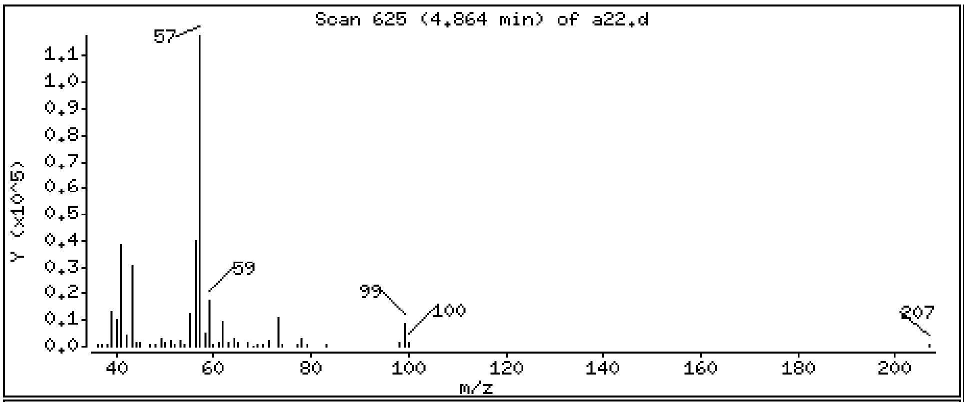
Client ID: LA2268MSD Instrument: 50mvda.i

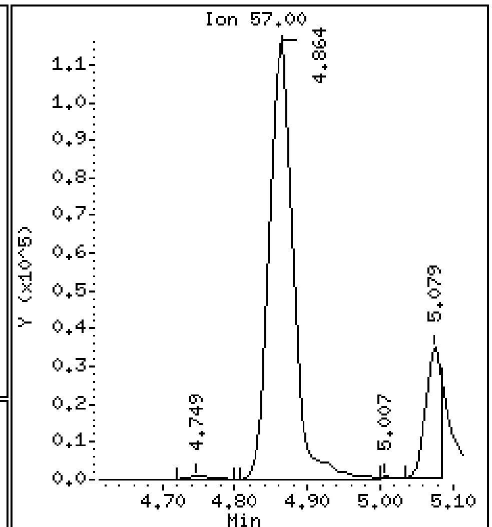
Sample Info: 3287470,336256:5

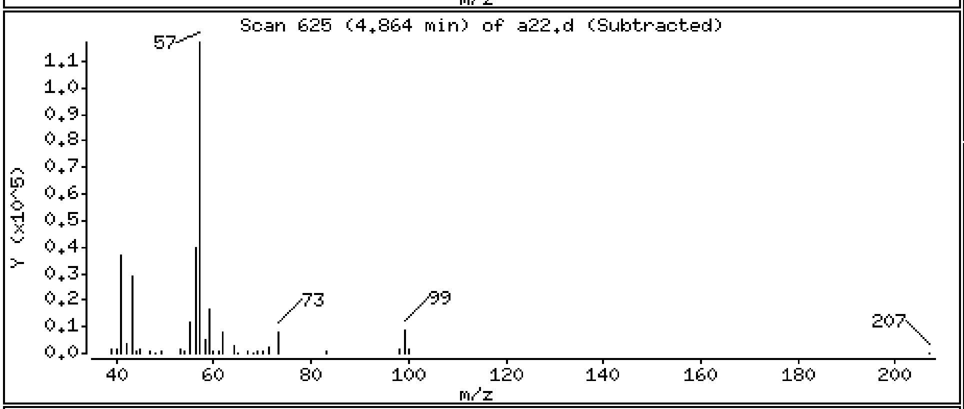
Purge Volume: 5.0 Operator: tkg

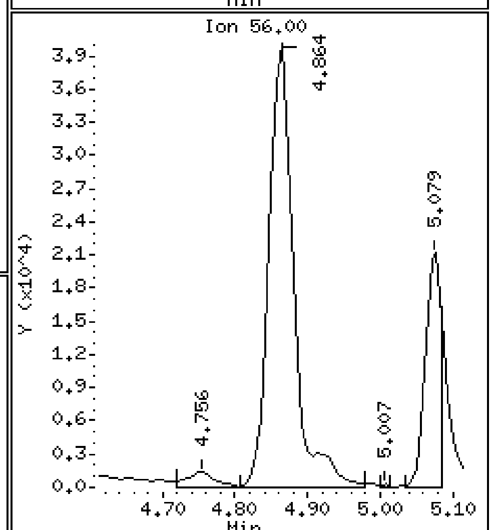
Column phase: DB-624 Column diameter: 0.18

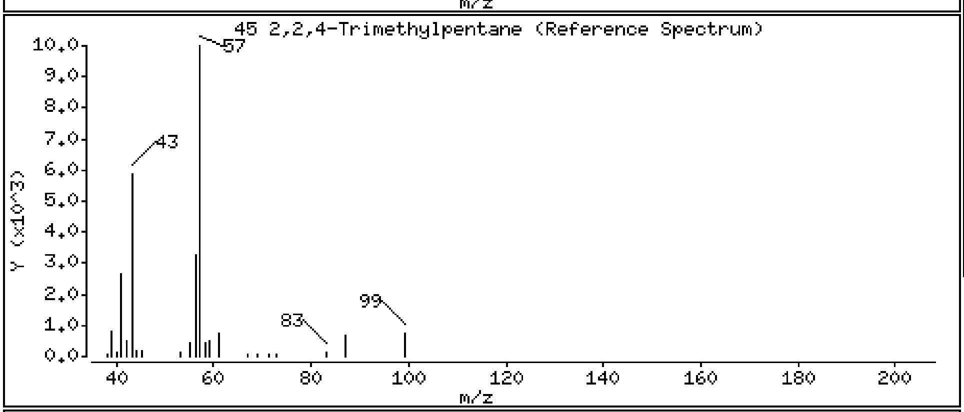
45 2,2,4-Trimethylpentane Concentration: 40.4 ppb Review Code:

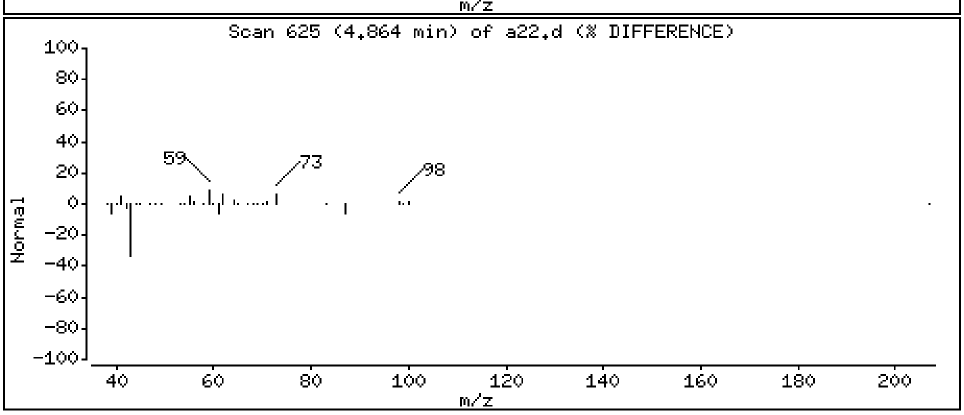












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Date : 23-JAN-2023 20:03

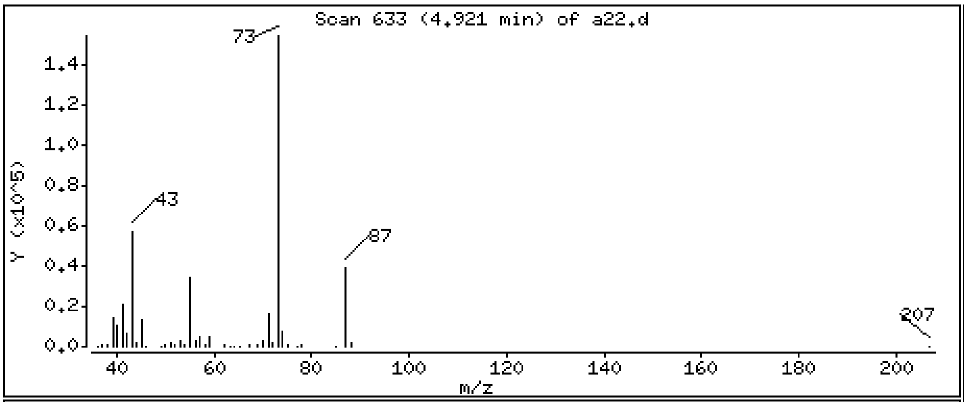
Client ID: LA2268MSD Instrument: 50mvda.i

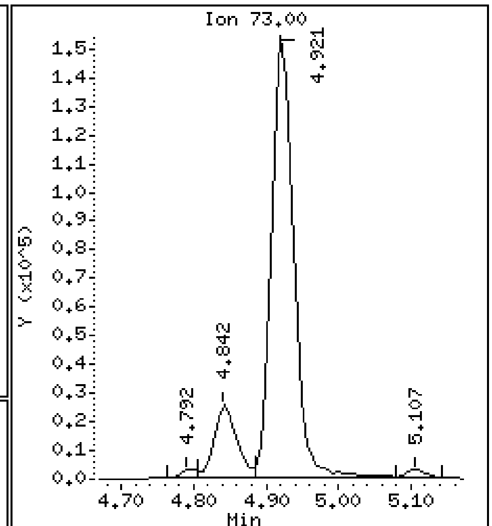
Sample Info: 3287470,336256:5

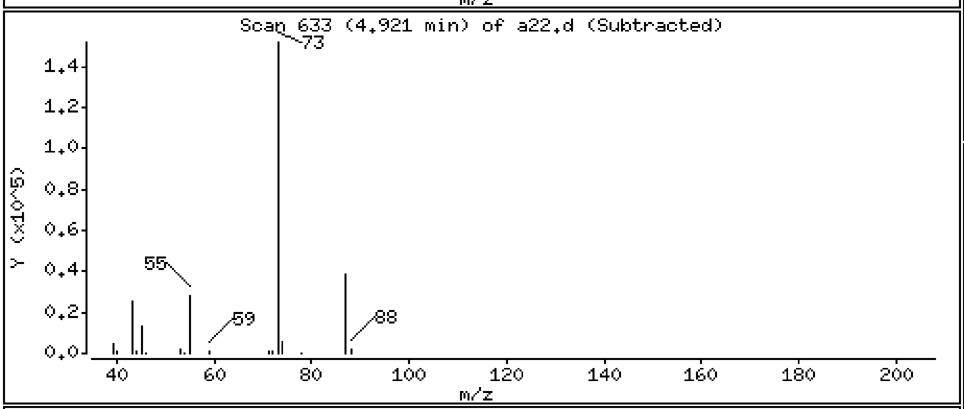
Purge Volume: 5.0 Operator: tkg

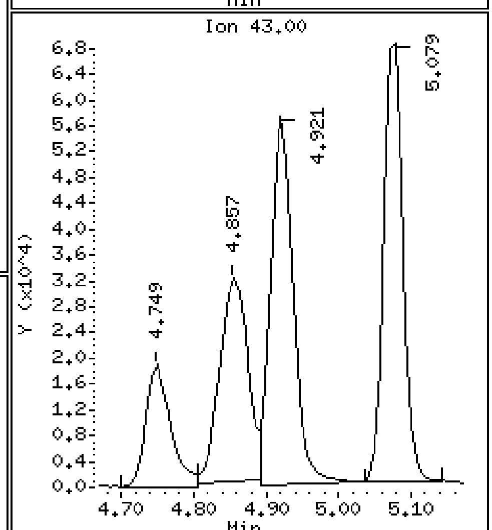
Column phase: DB-624 Column diameter: 0.18

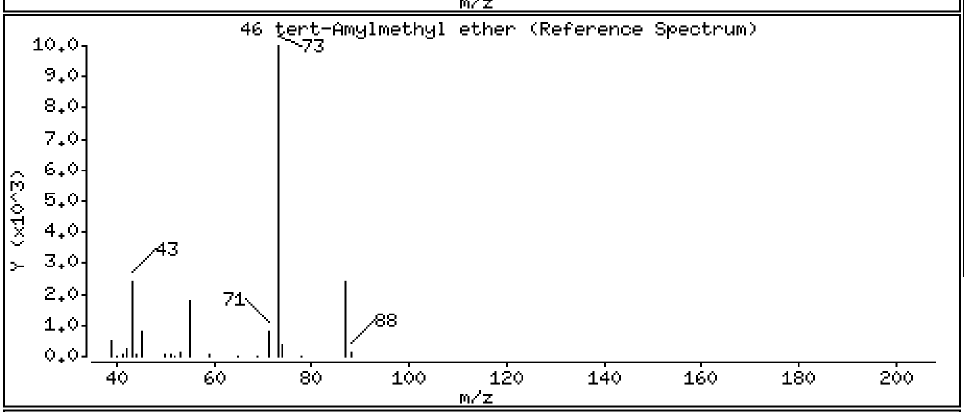
46 tert-Amylmethyl ether Concentration: 46.2 ppb Review Code:

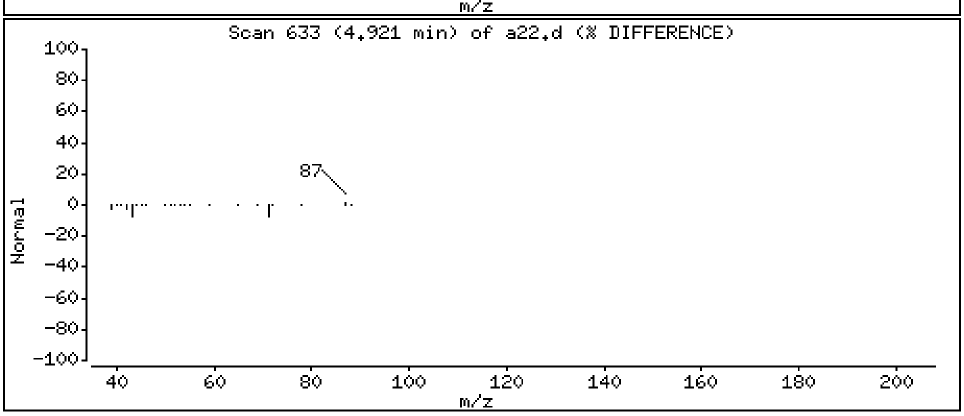












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

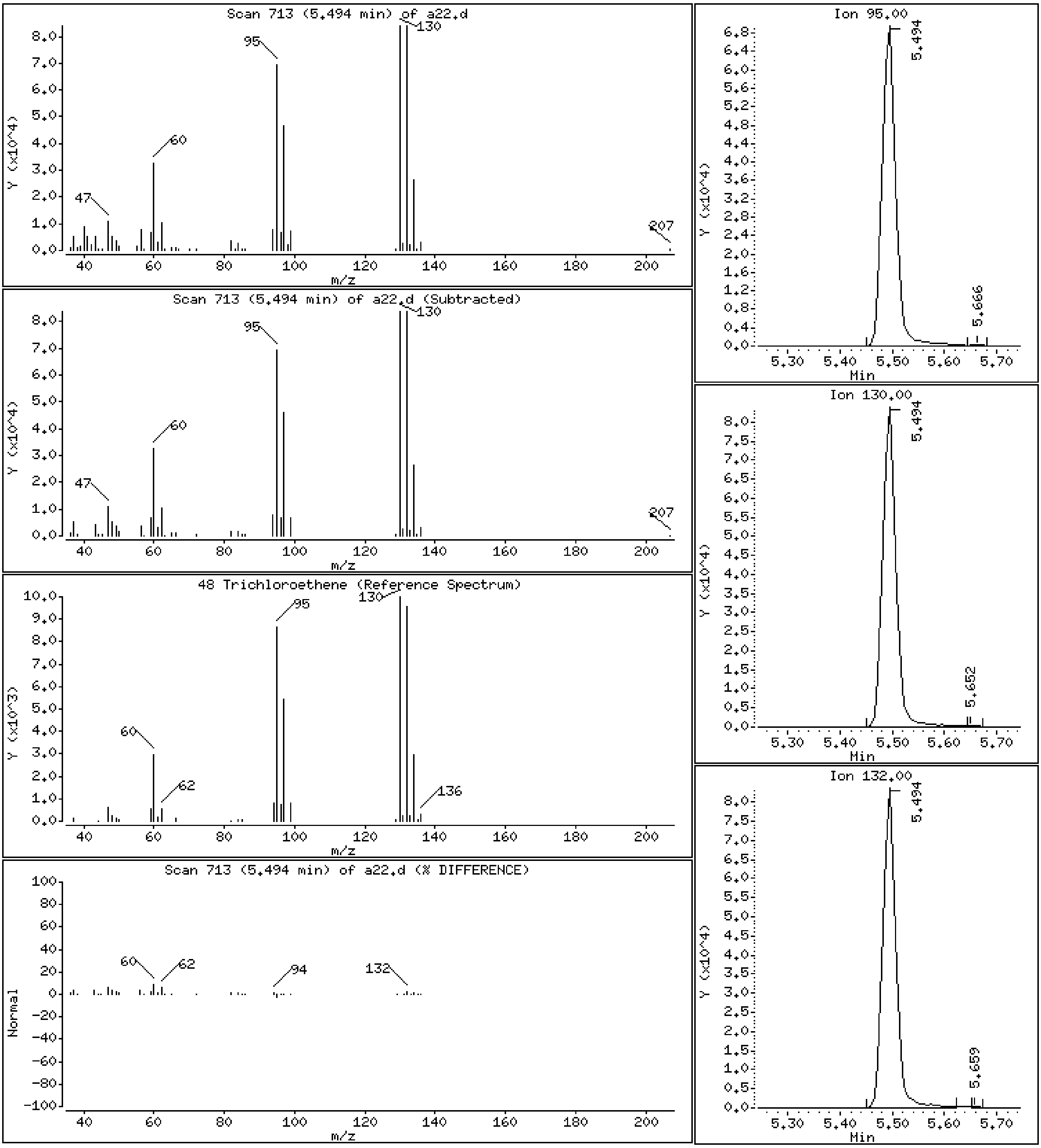
Column phase: DB-624

Column diameter: 0.18

48 Trichloroethene

Concentration: 52.0 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

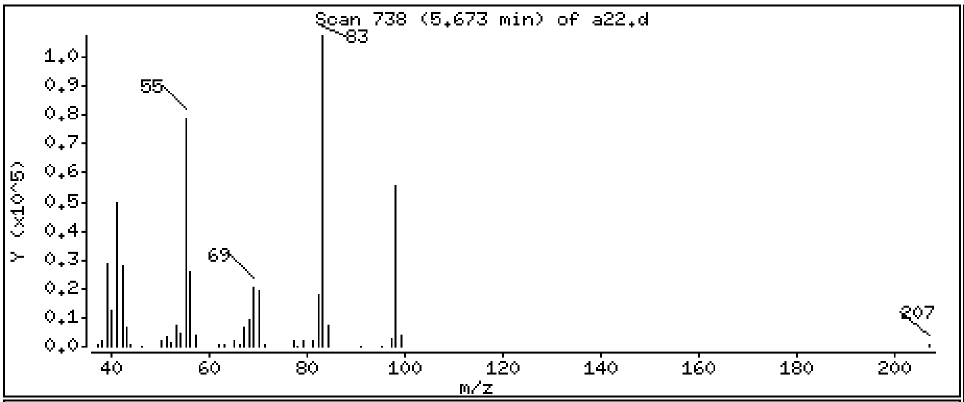
Column phase: DB-624

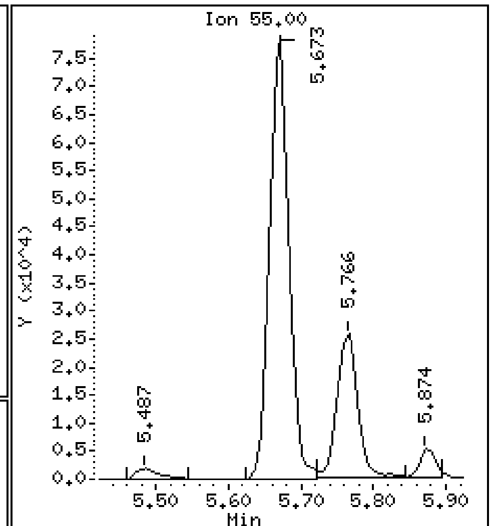
Column diameter: 0.18

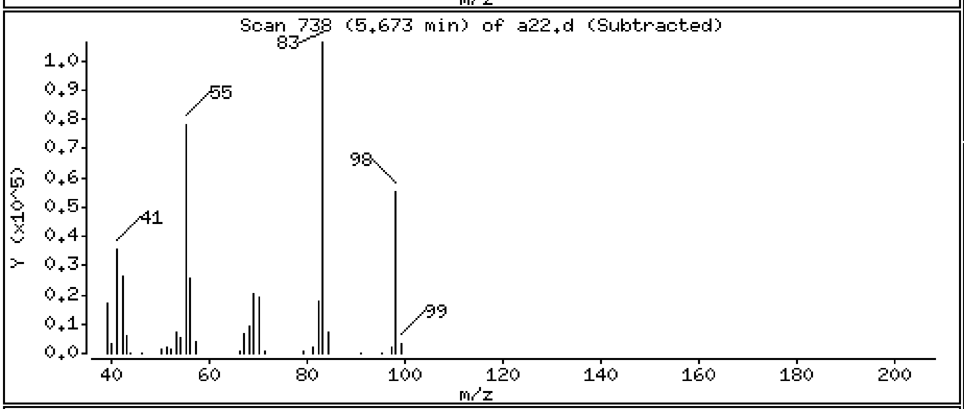
49 Methylcyclohexane

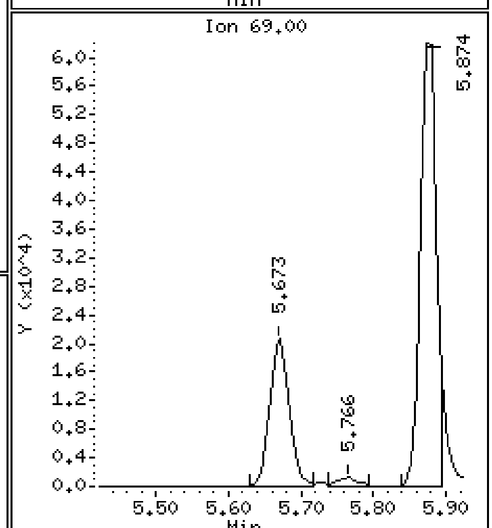
Concentration: 41.1 ppb

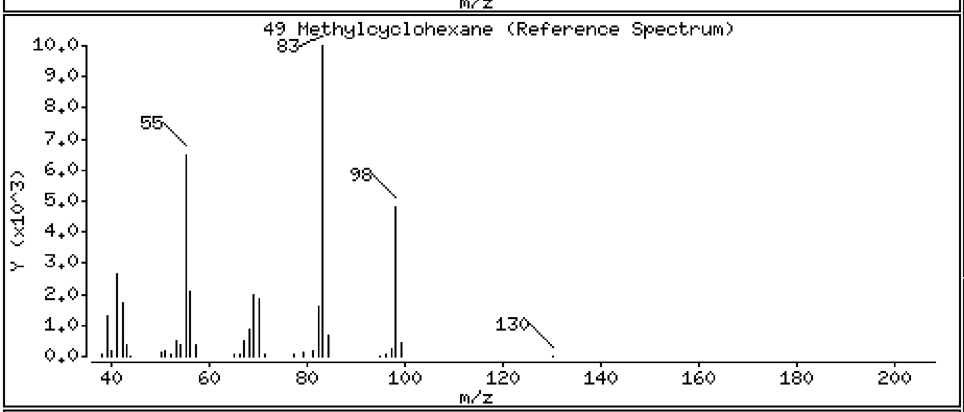
Review Code:

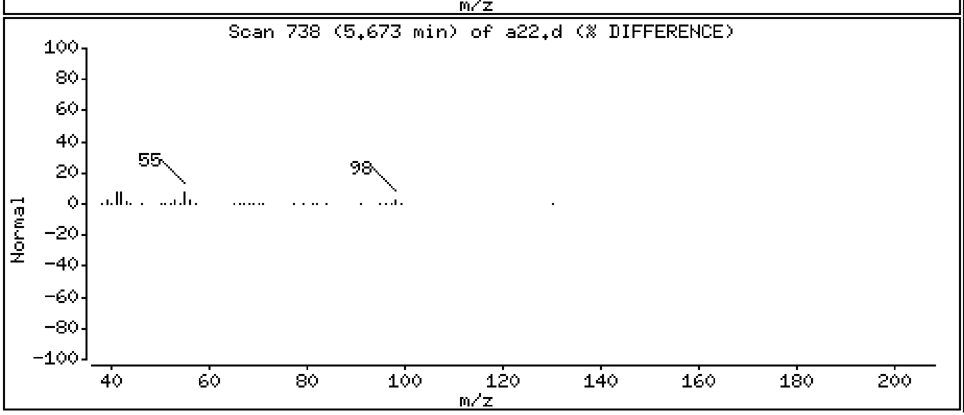


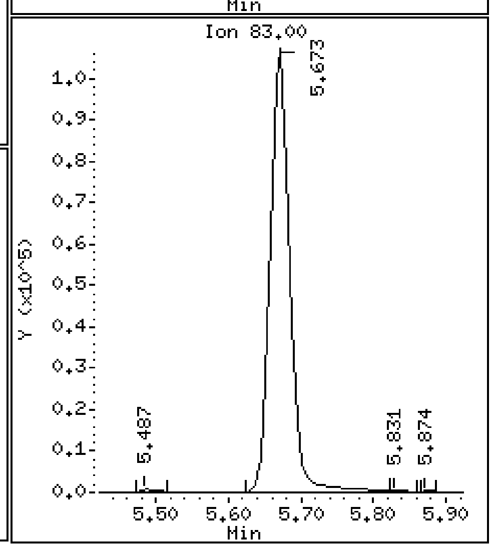












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

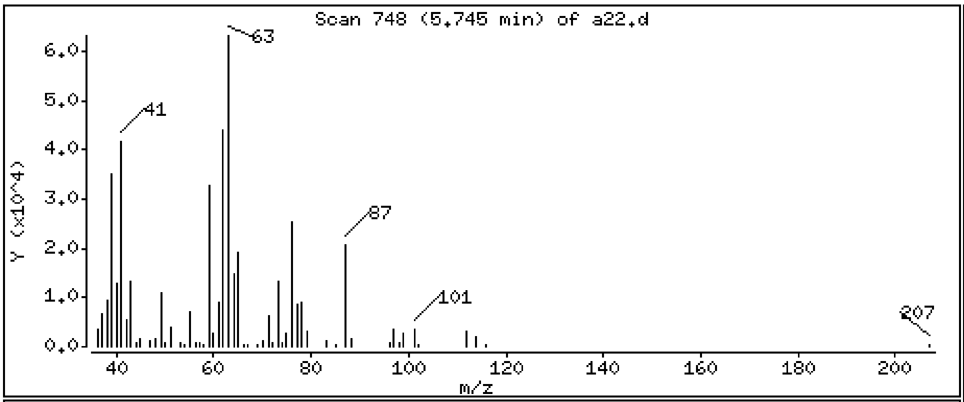
Column phase: DB-624

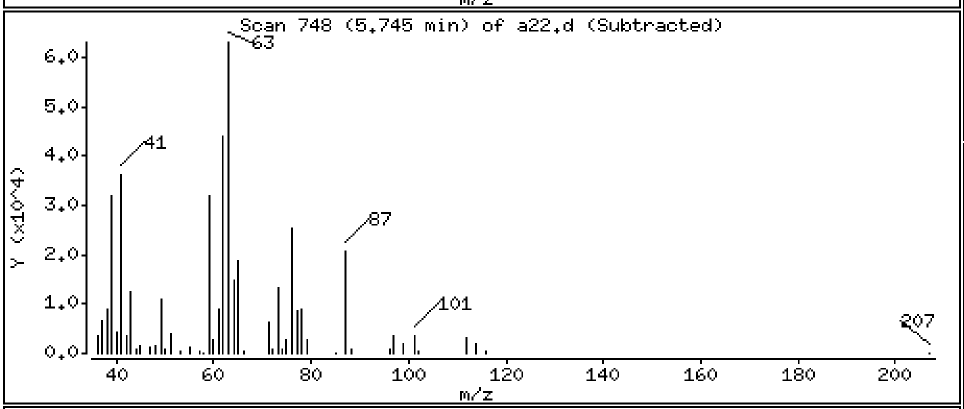
Column diameter: 0.18

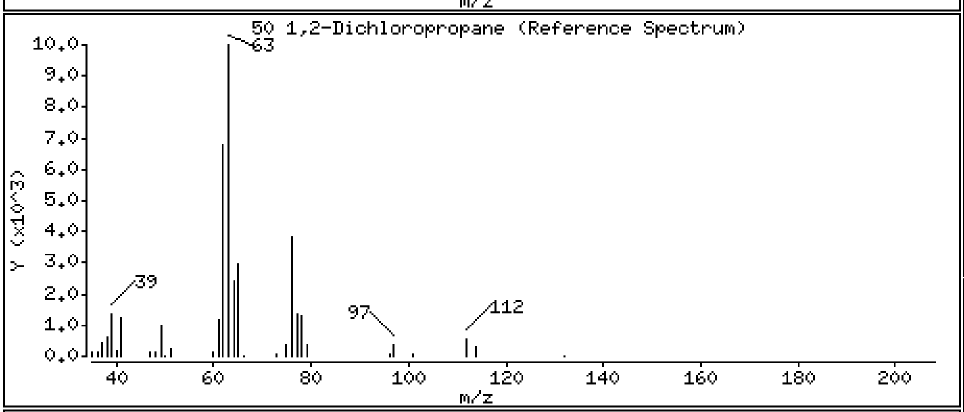
50 1,2-Dichloropropane

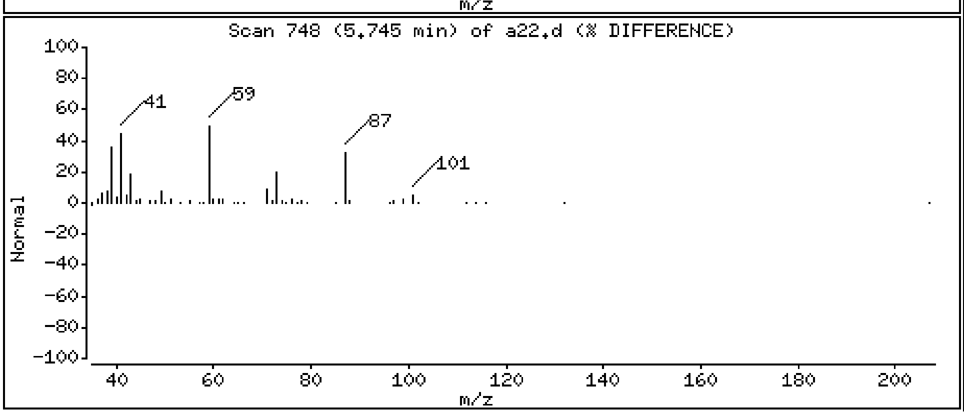
Concentration: 47.7 ppb

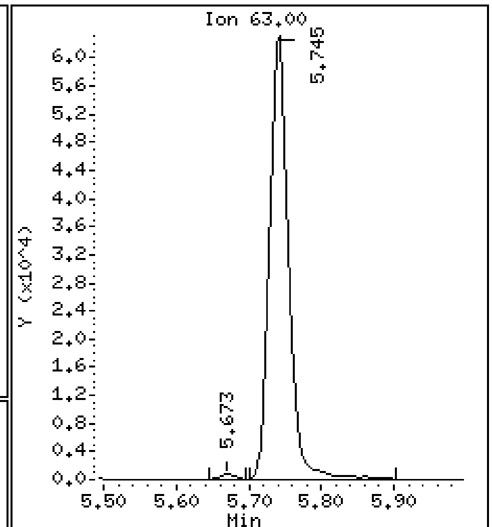
Review Code:

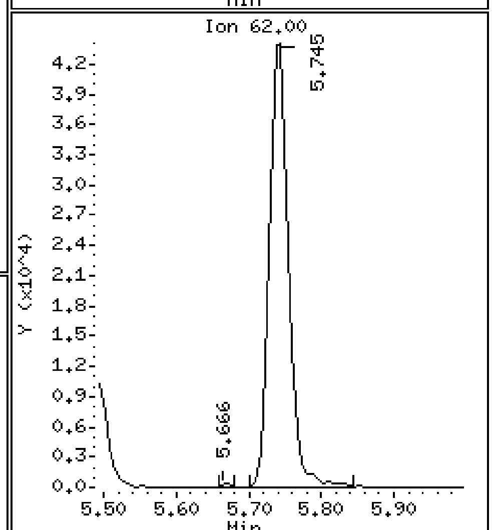


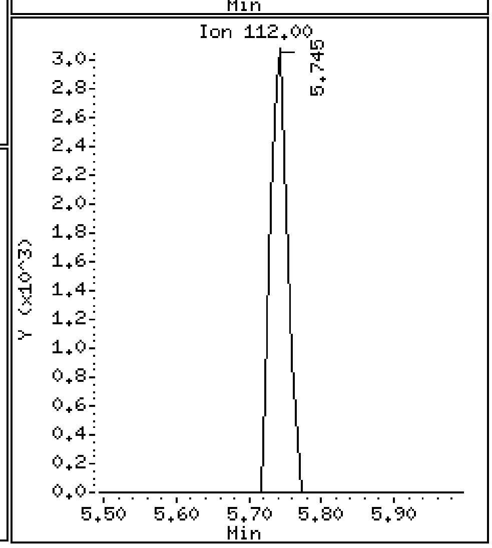












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

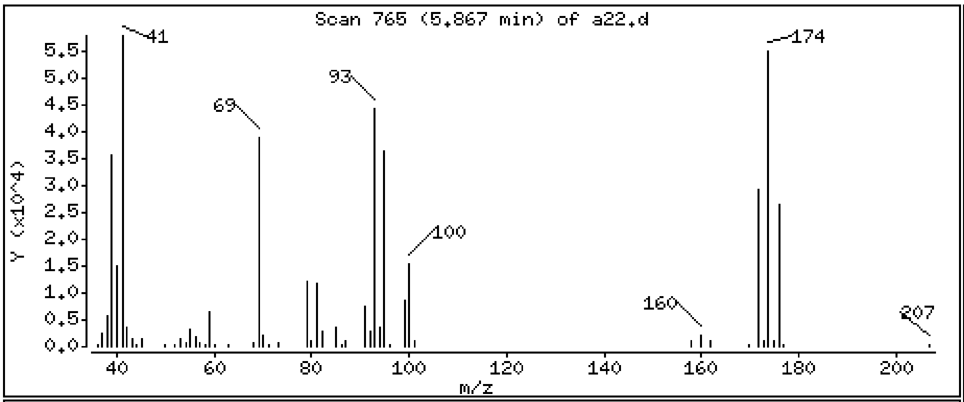
Column phase: DB-624

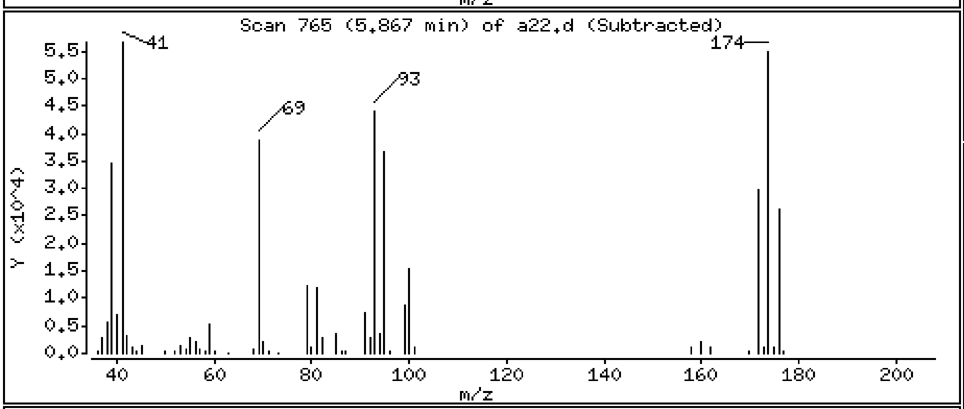
Column diameter: 0.18

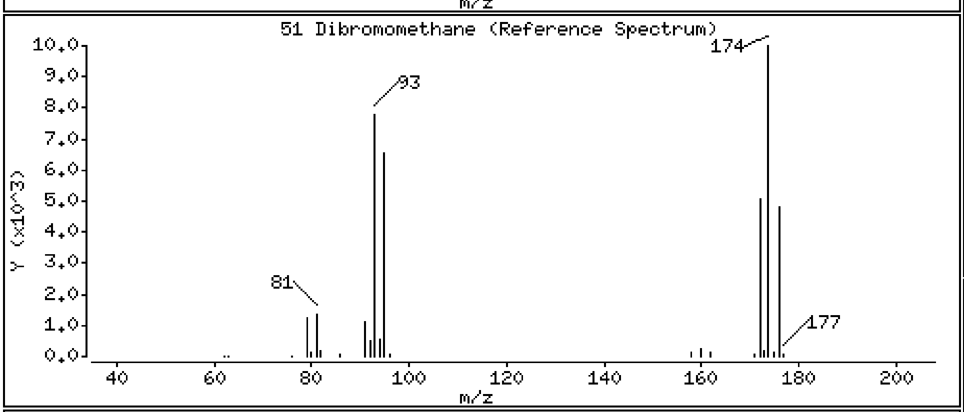
51 Dibromomethane

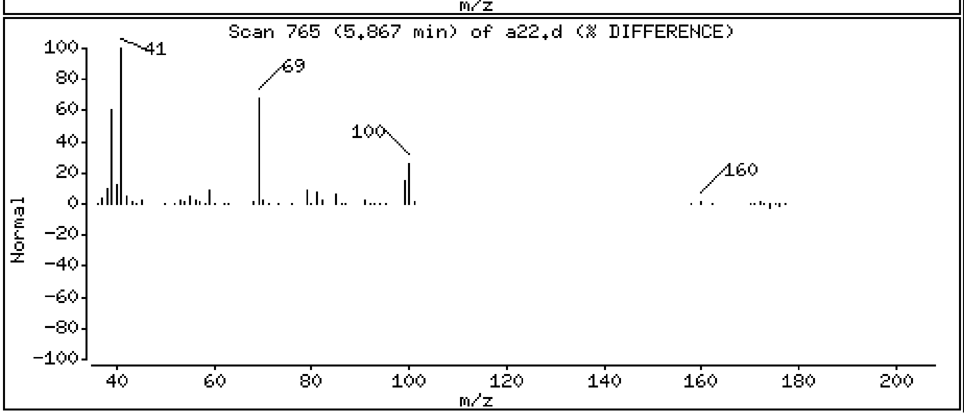
Concentration: 52.9 ppb

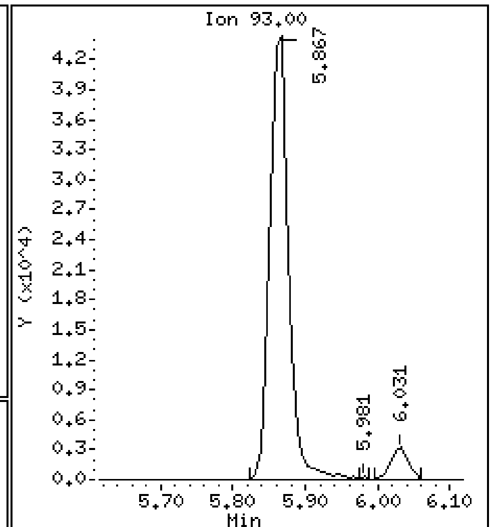
Review Code:

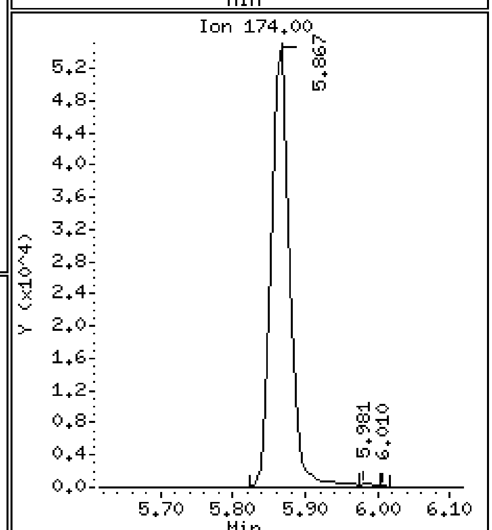


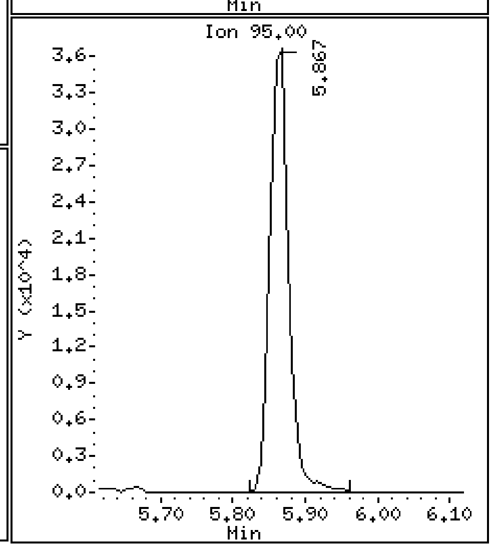












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

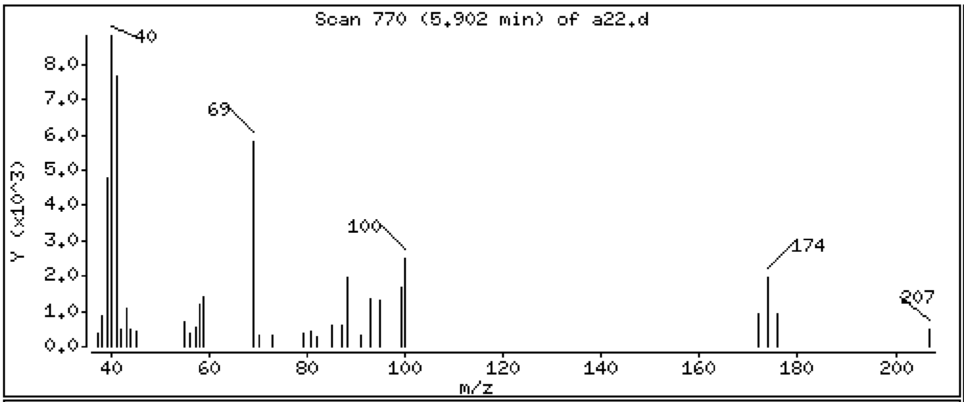
Column phase: DB-624

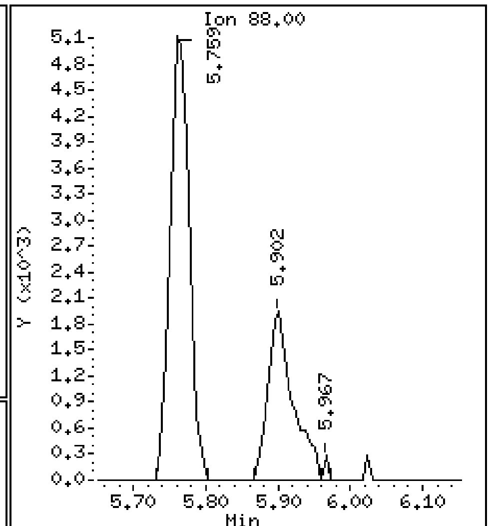
Column diameter: 0.18

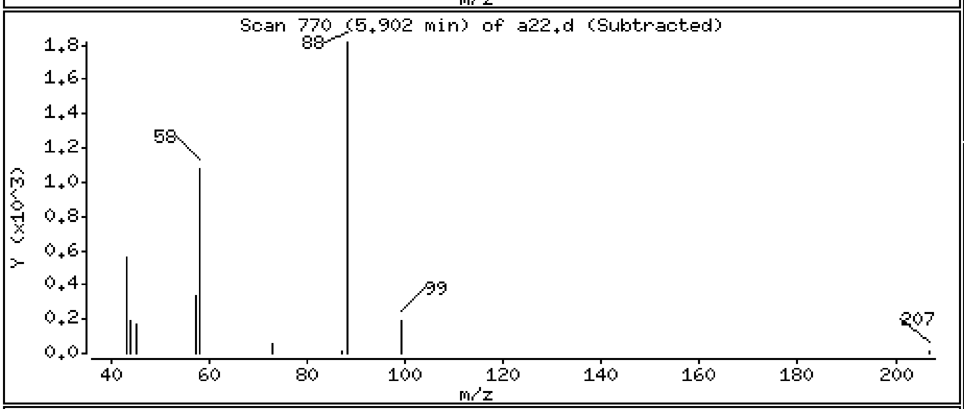
52 1,4-Dioxane

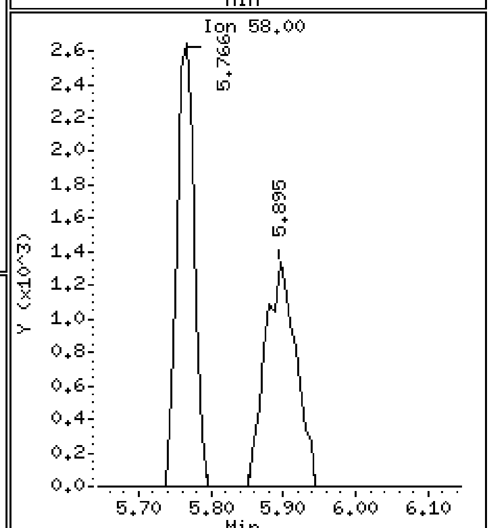
Concentration: 316 ppb

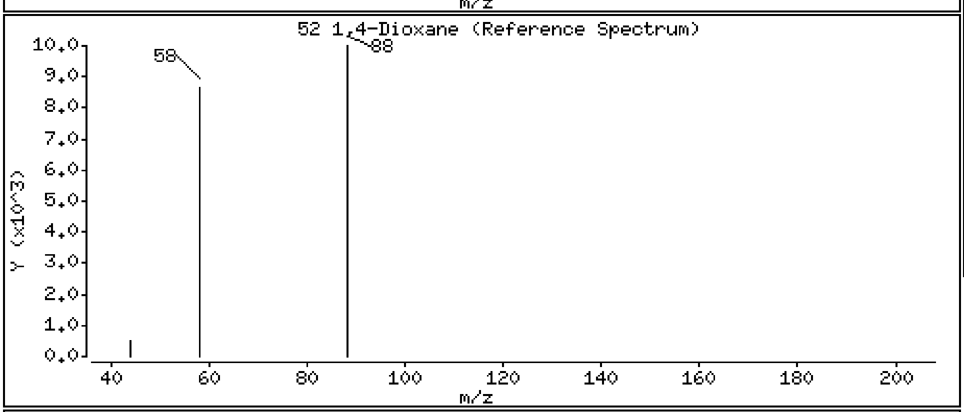
Review Code:

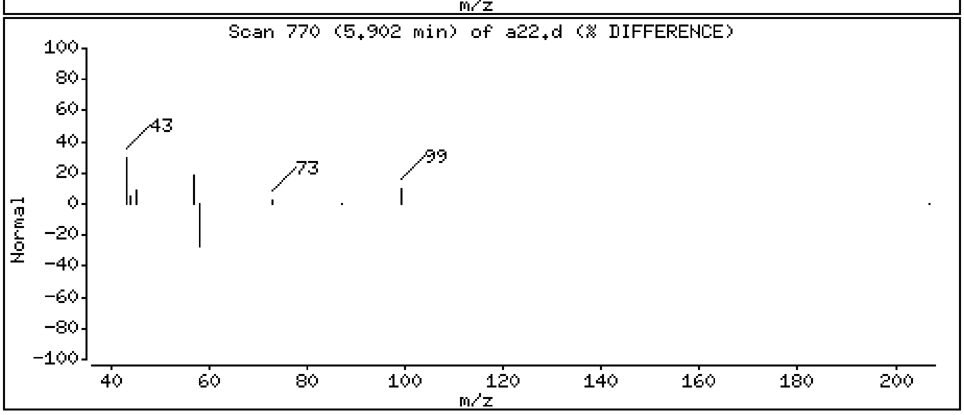












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

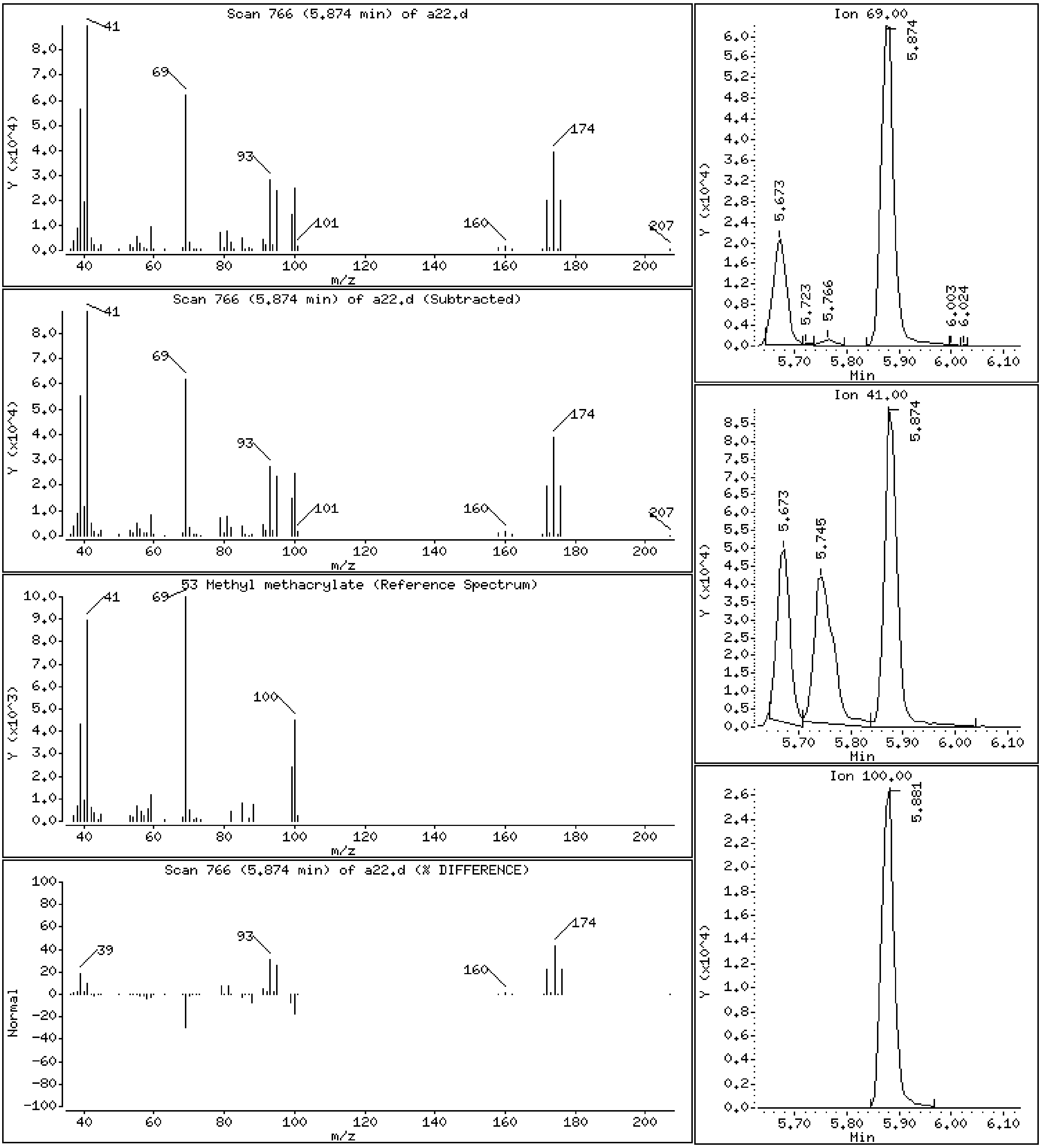
Column phase: DB-624

Column diameter: 0.18

53 Methyl methacrylate

Concentration: 47.1 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

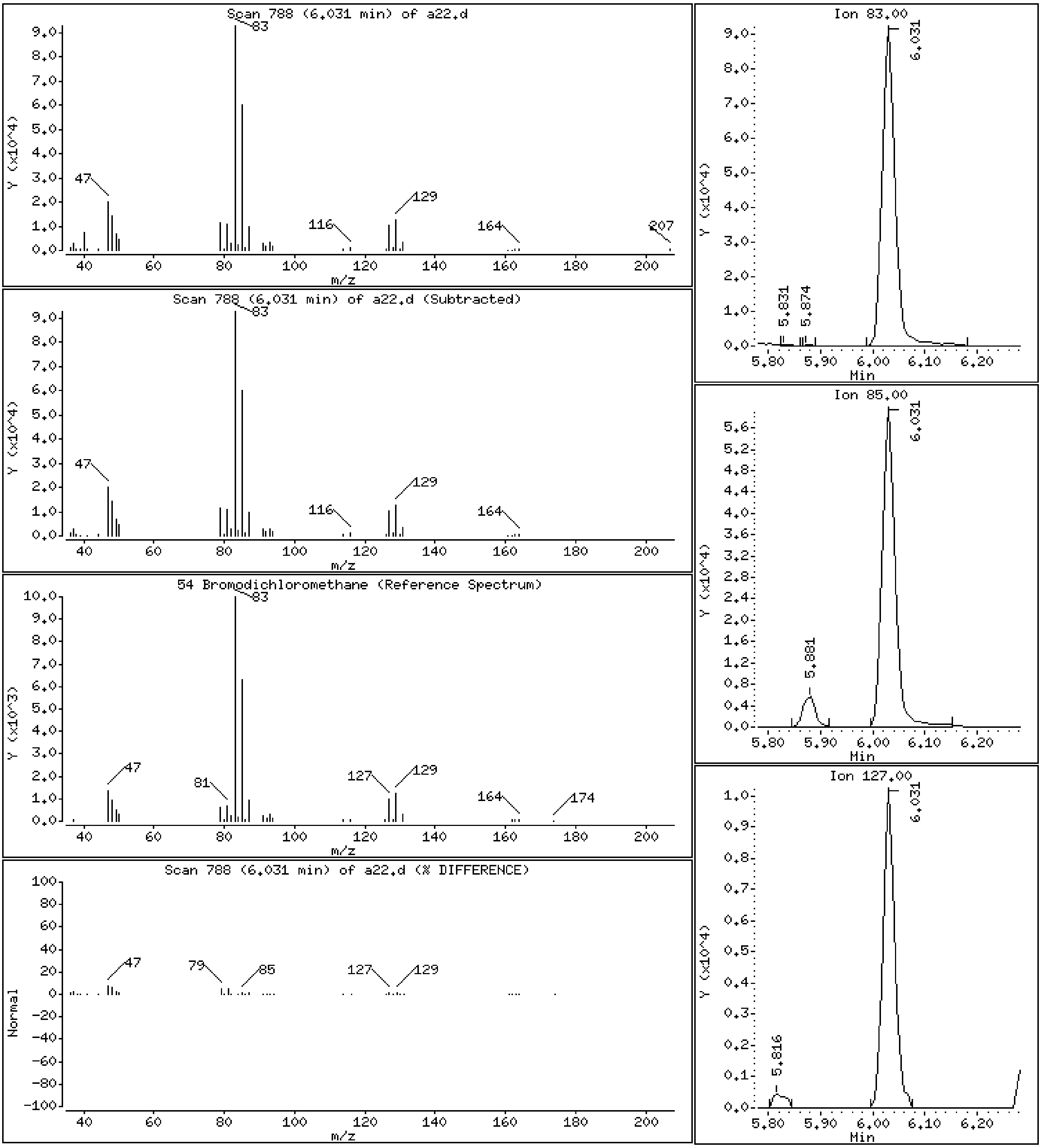
Column phase: DB-624

Column diameter: 0.18

54 Bromodichloromethane

Concentration: 53.4 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

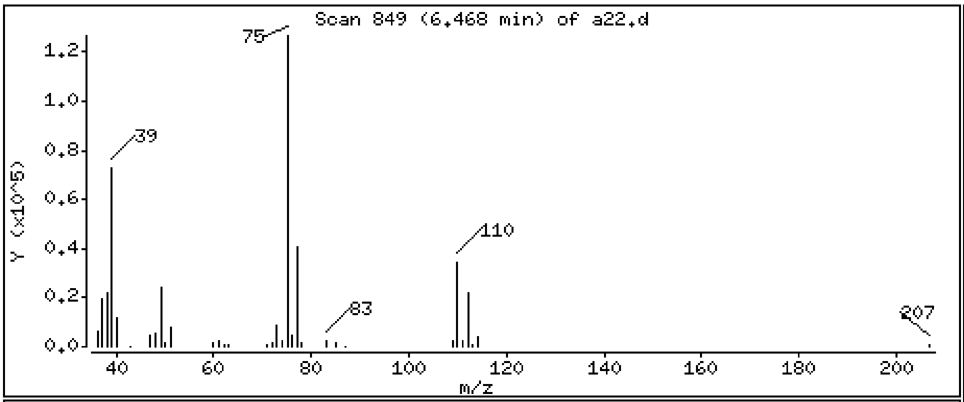
Column phase: DB-624

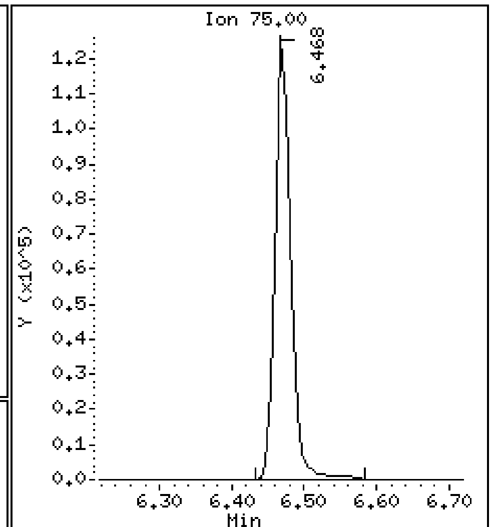
Column diameter: 0.18

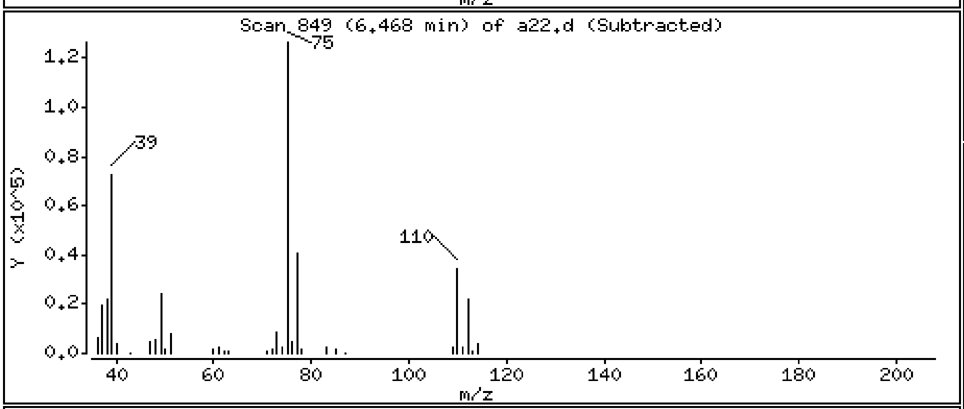
56 cis-1,3-Dichloropropene

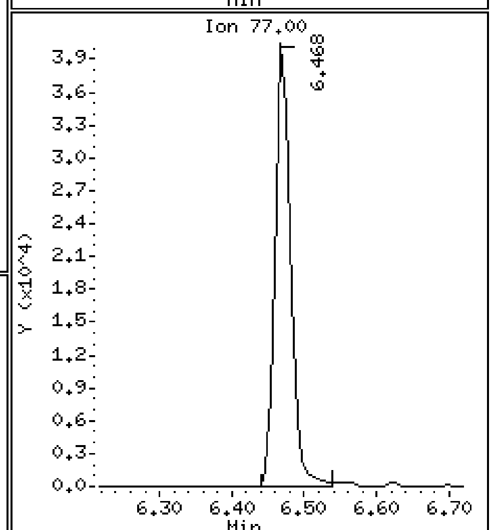
Concentration: 46.7 ppb

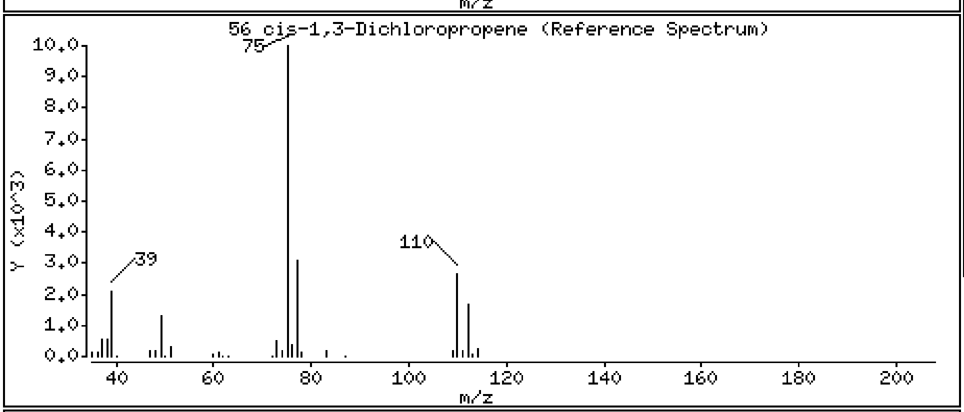
Review Code:

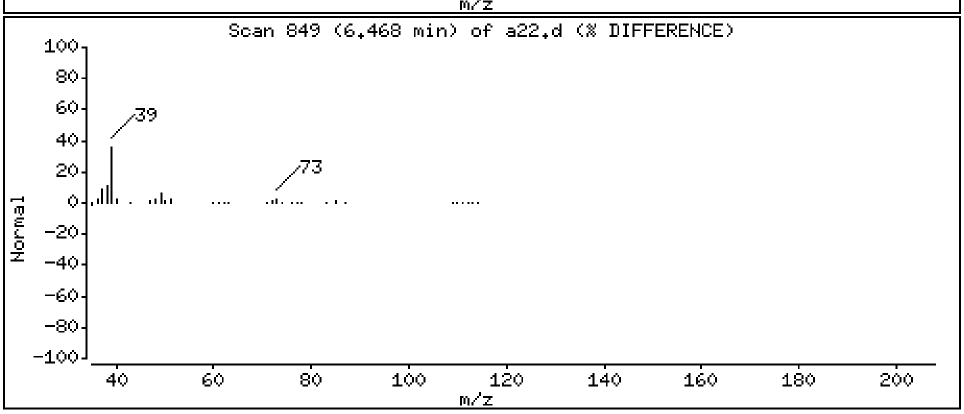












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

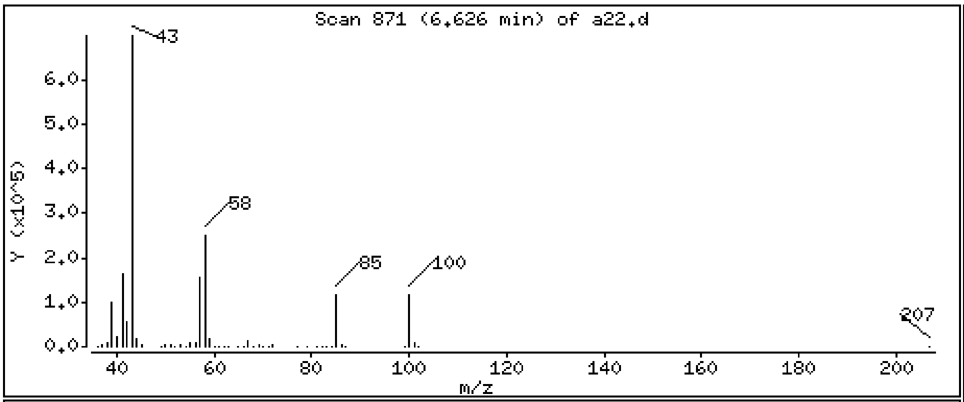
Column phase: DB-624

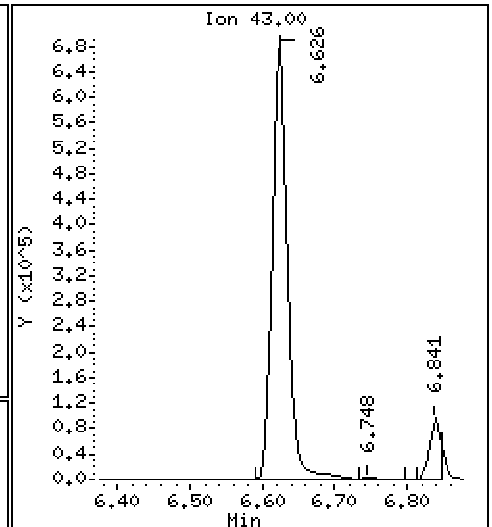
Column diameter: 0.18

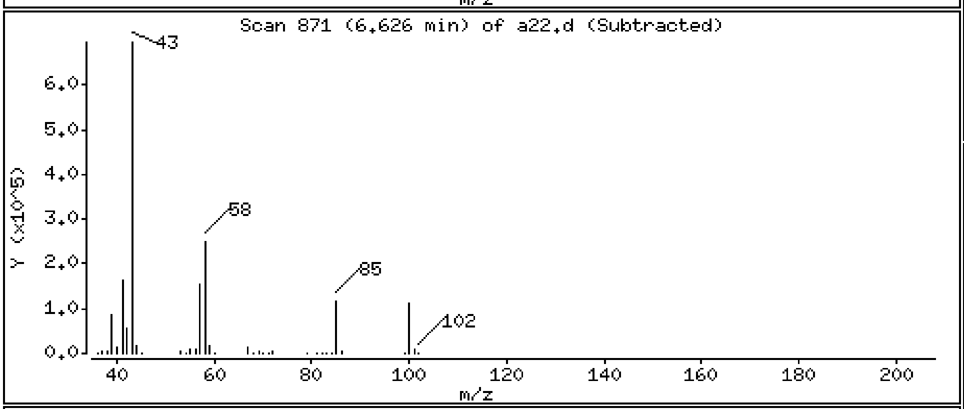
57 4-Methyl-2-Pentanone

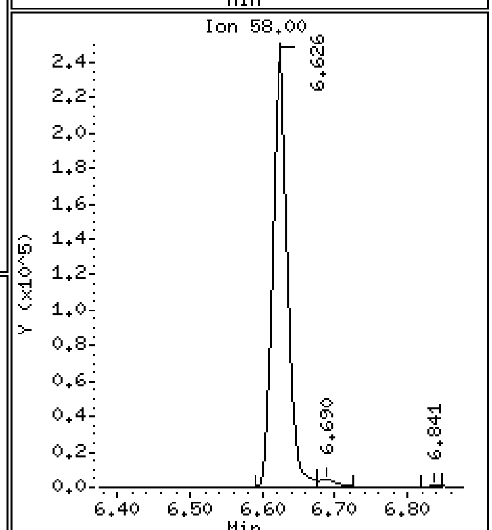
Concentration: 218 ppb

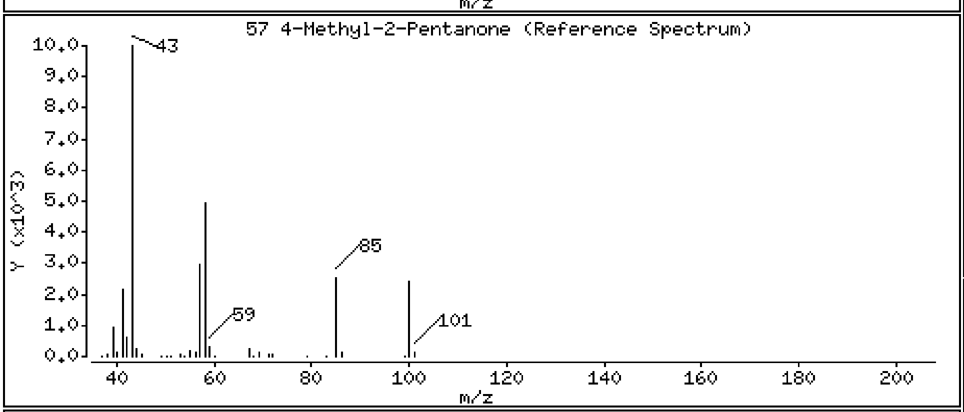
Review Code:

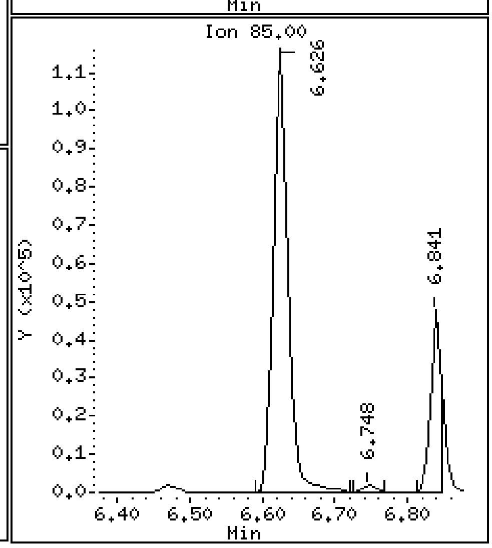


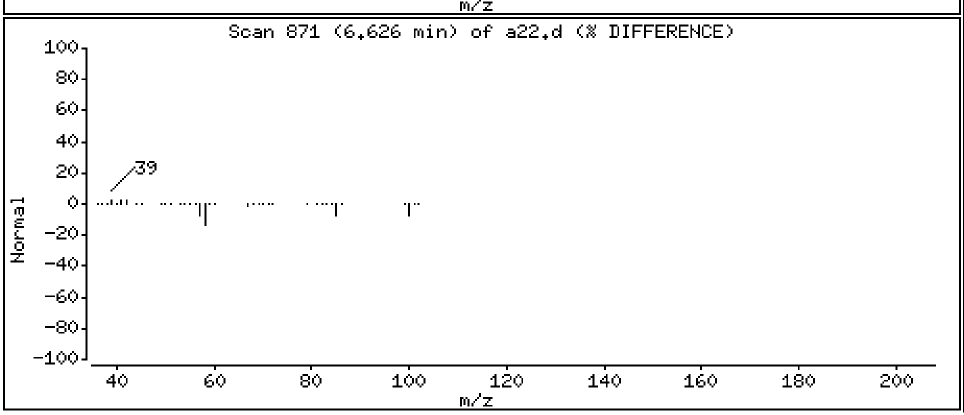












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Date : 23-JAN-2023 20:03

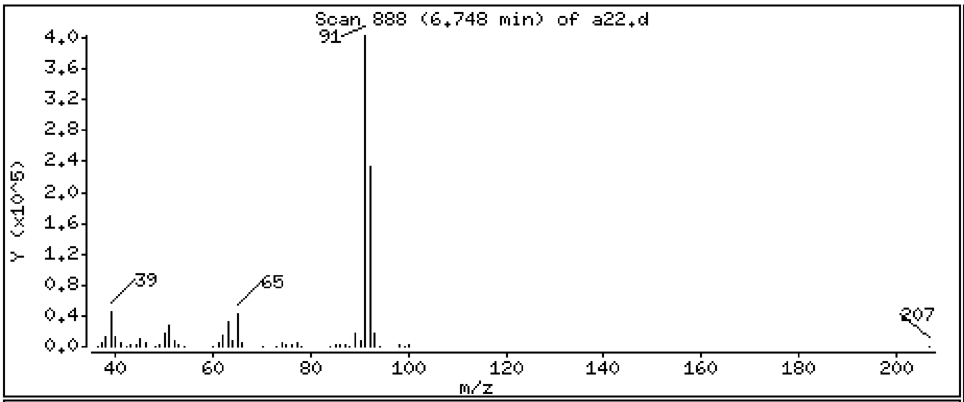
Client ID: LA2268MSD Instrument: 50mvda.i

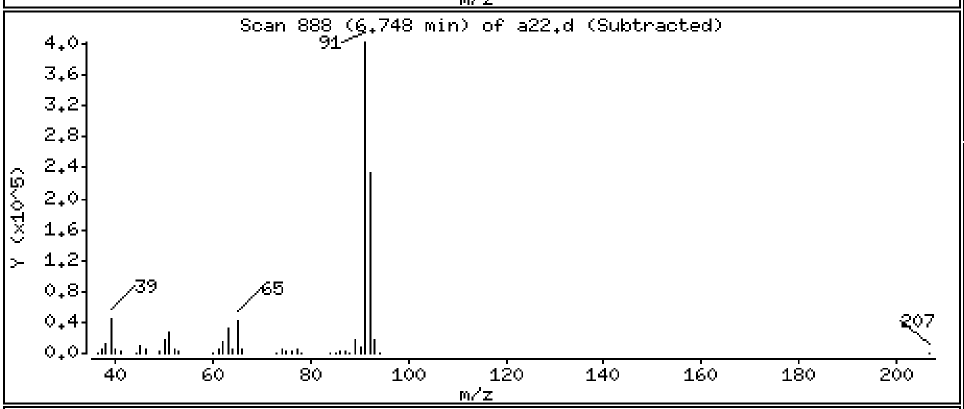
Sample Info: 3287470,336256:5

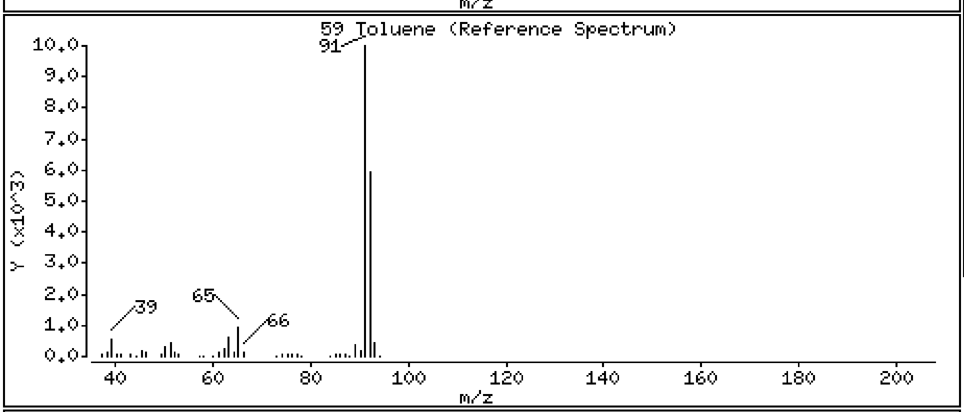
Purge Volume: 5.0 Operator: tkg

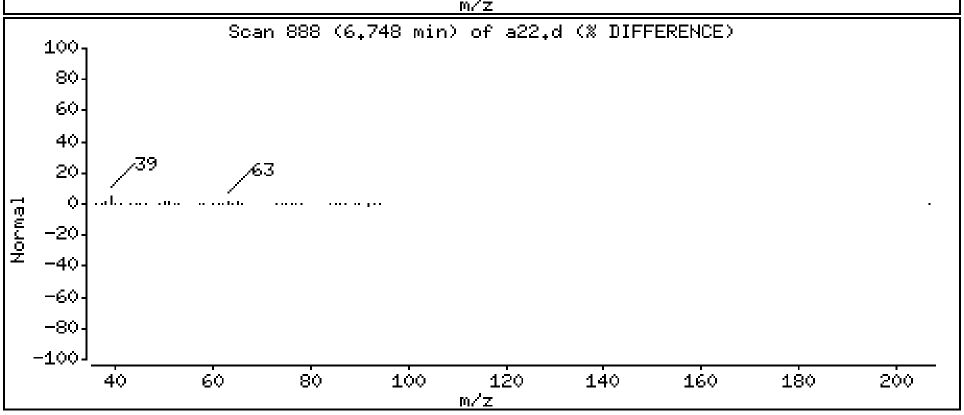
Column phase: DB-624 Column diameter: 0.18

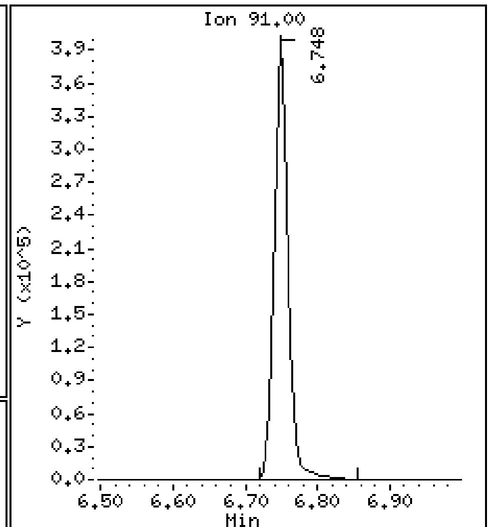
59 Toluene Concentration: 44.8 ppb Review Code:

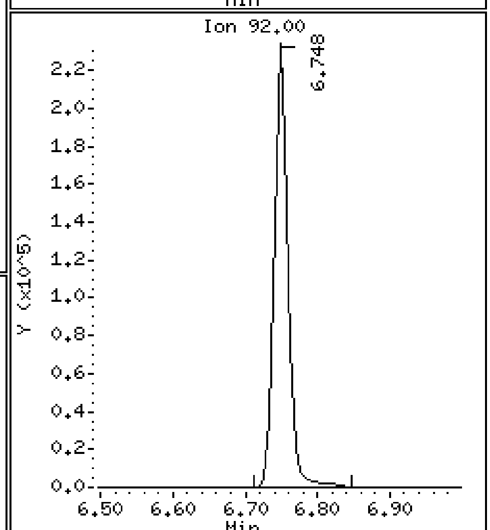












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Date : 23-JAN-2023 20:03

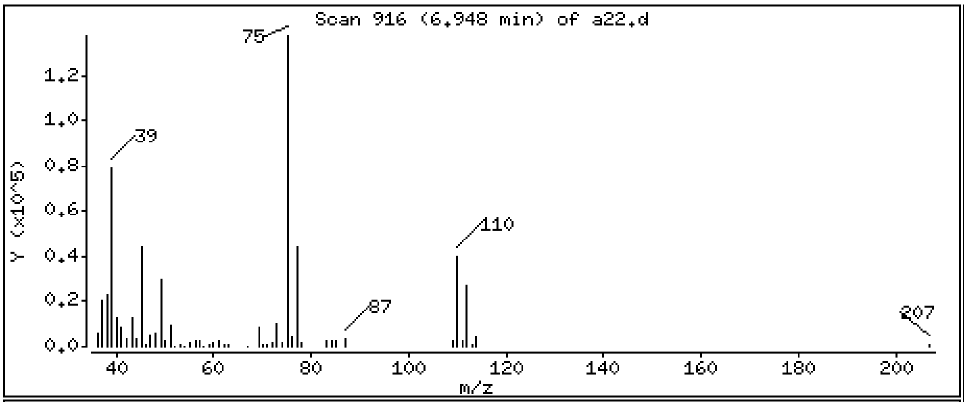
Client ID: LA2268MSD Instrument: 50mvda.i

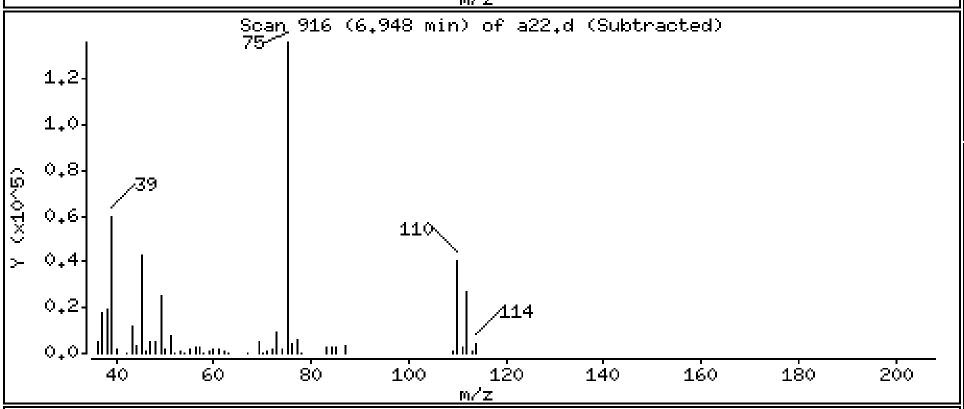
Sample Info: 3287470,336256:5

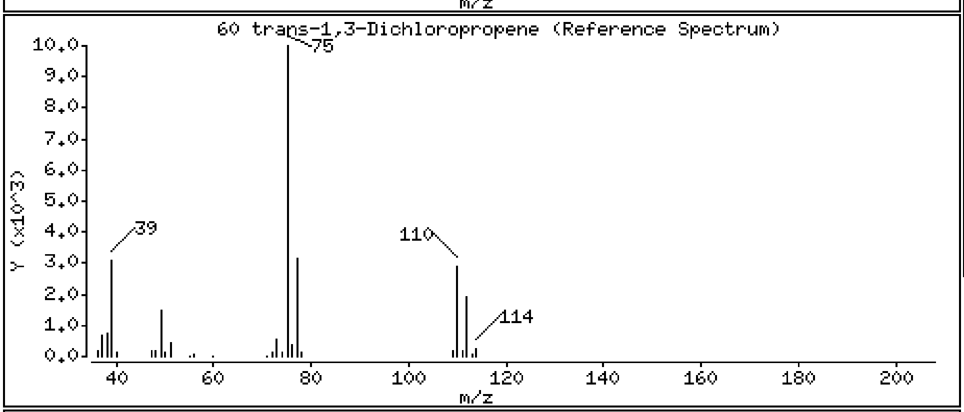
Purge Volume: 5.0 Operator: tkg

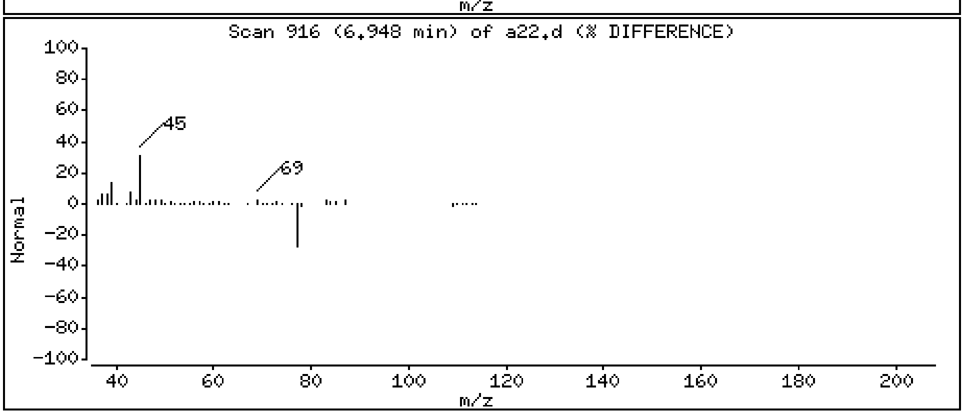
Column phase: DB-624 Column diameter: 0.18

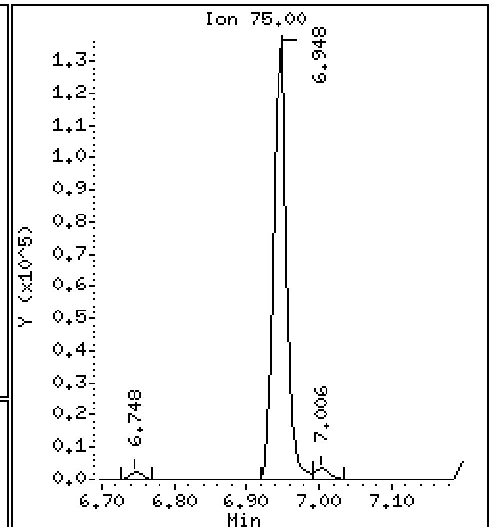
60 trans-1,3-Dichloropropene Concentration: 45.0 ppb Review Code:

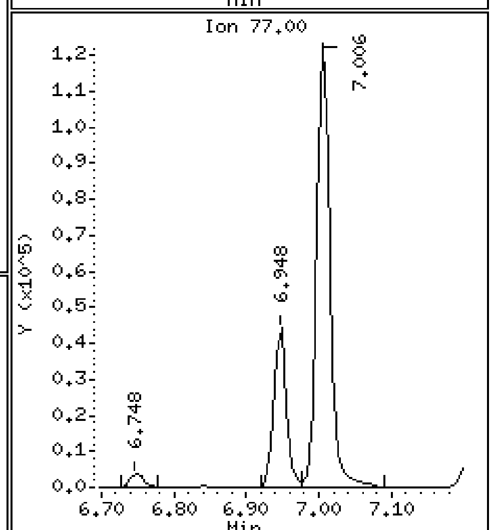












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

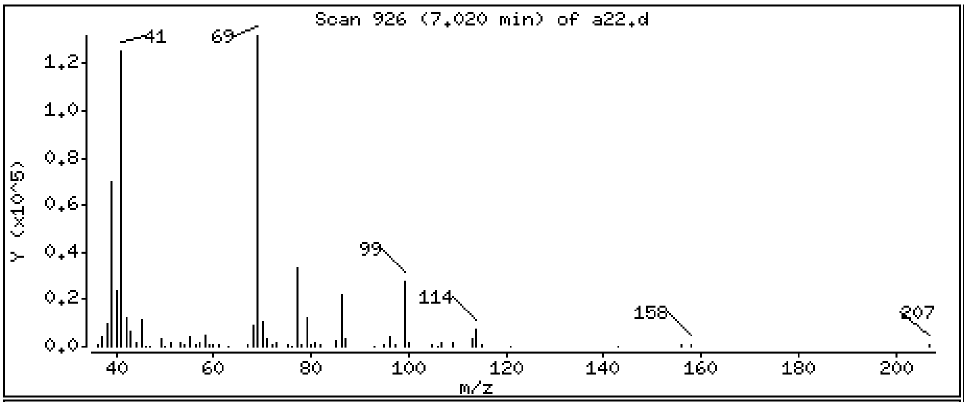
Column phase: DB-624

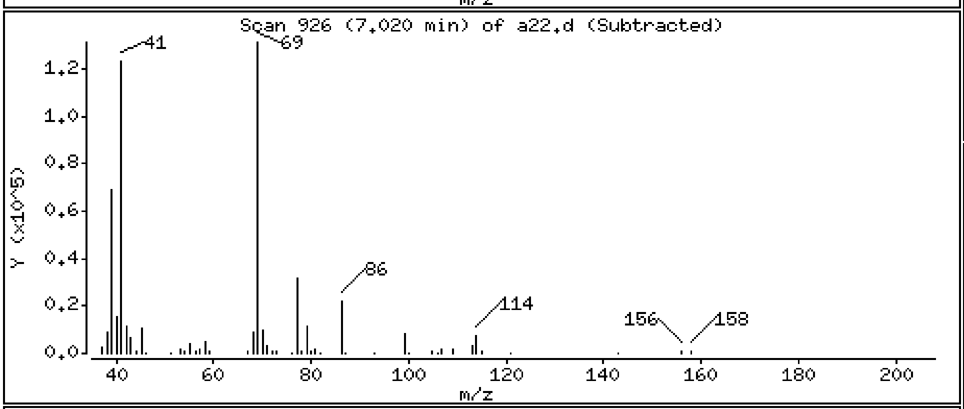
Column diameter: 0.18

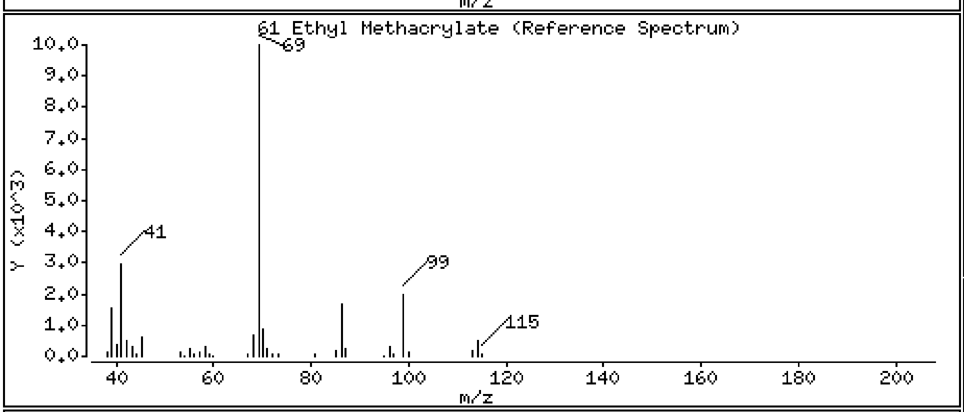
61 Ethyl Methacrylate

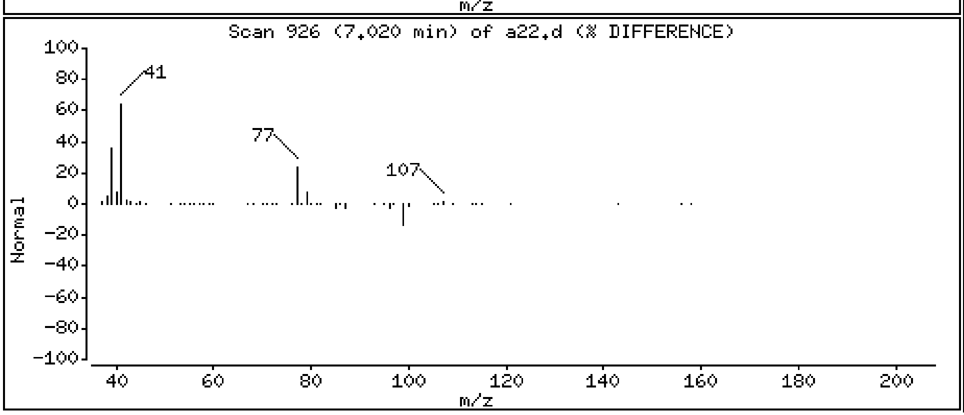
Concentration: 43.8 ppb

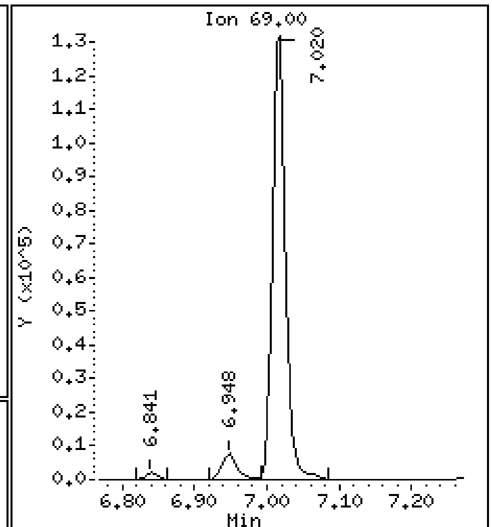
Review Code:

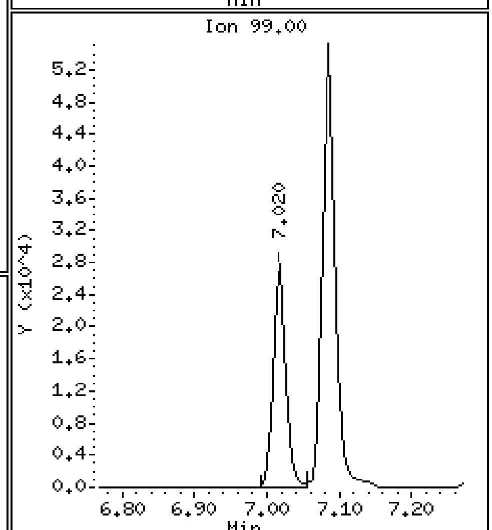


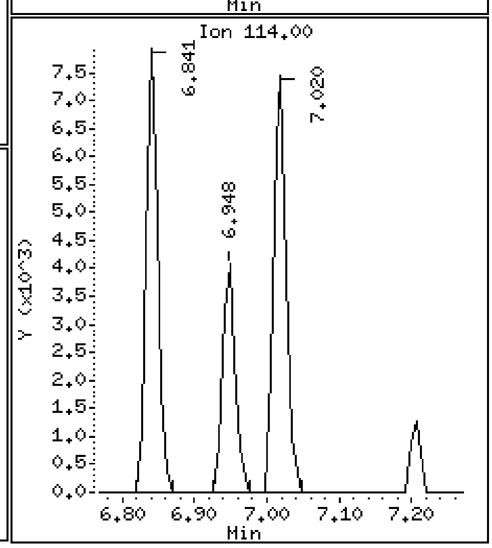












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

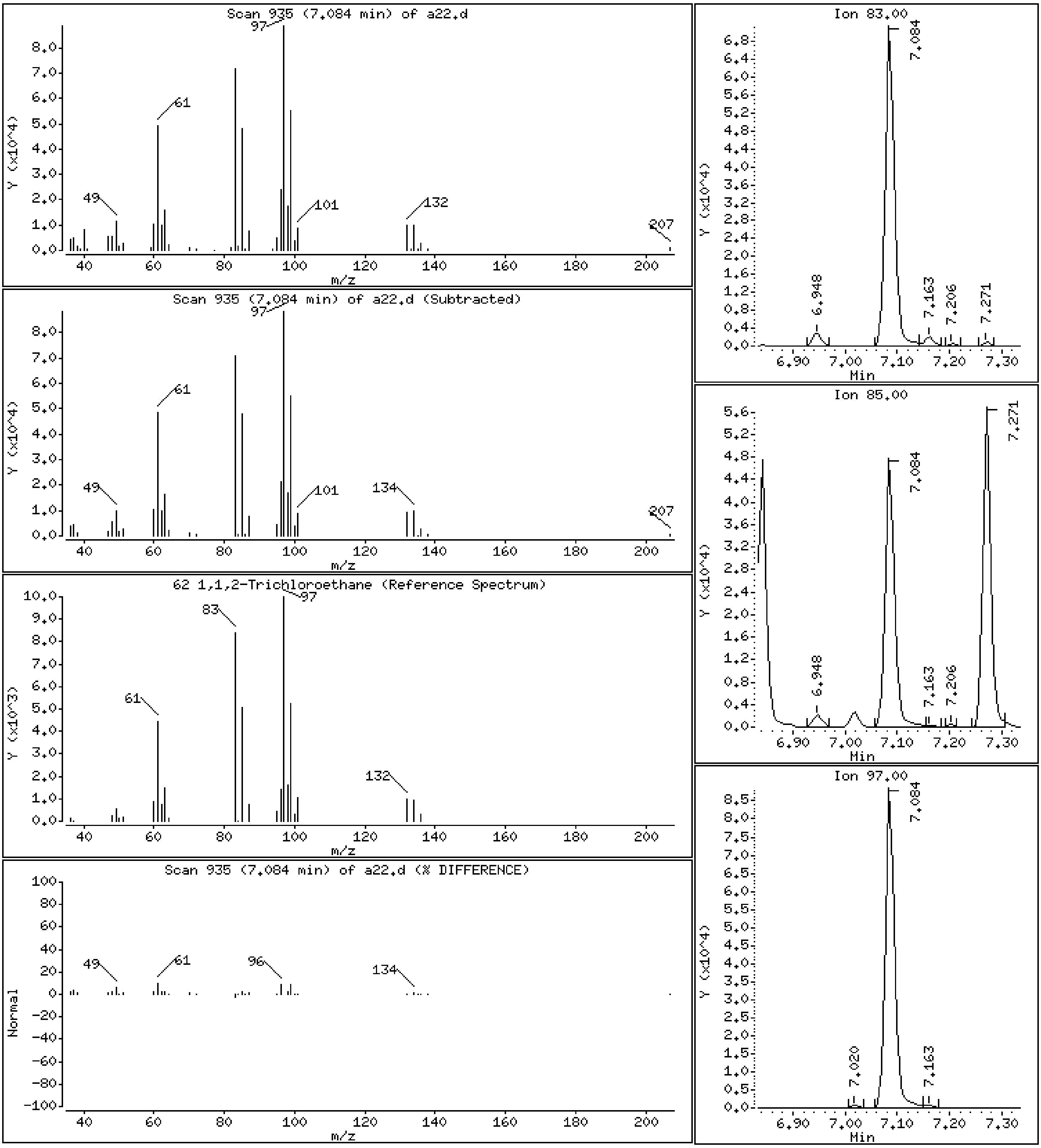
Column phase: DB-624

Column diameter: 0.18

62 1,1,2-Trichloroethane

Concentration: 45.3 ppb

Review Code:



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Date : 23-JAN-2023 20:03

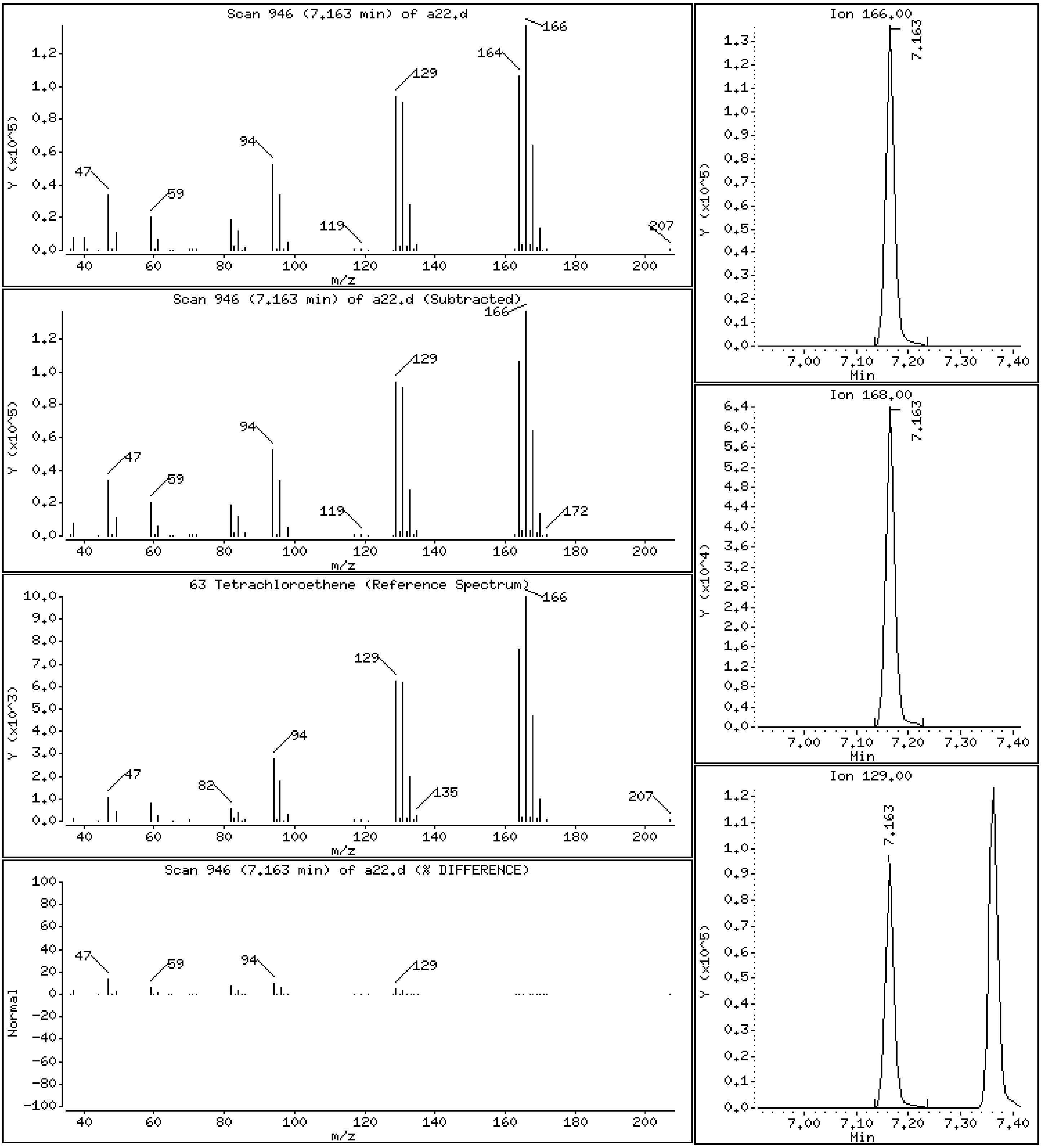
Client ID: LA2268MSD Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

63 Tetrachloroethene Concentration: 54.0 ppb Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

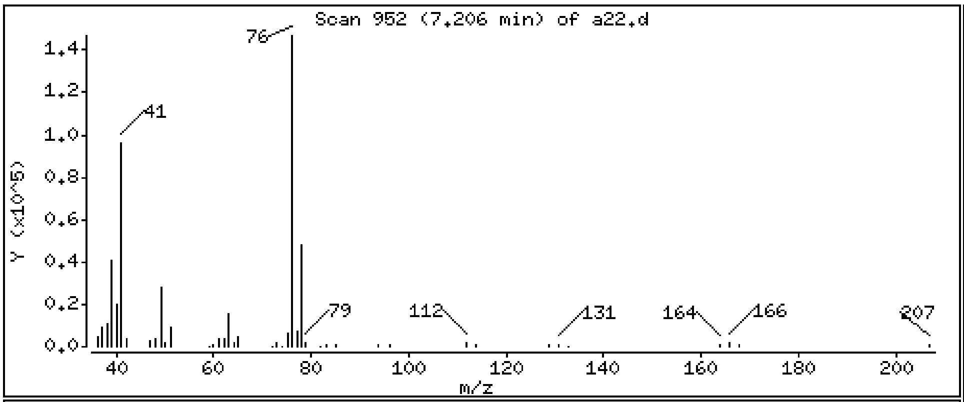
Column phase: DB-624

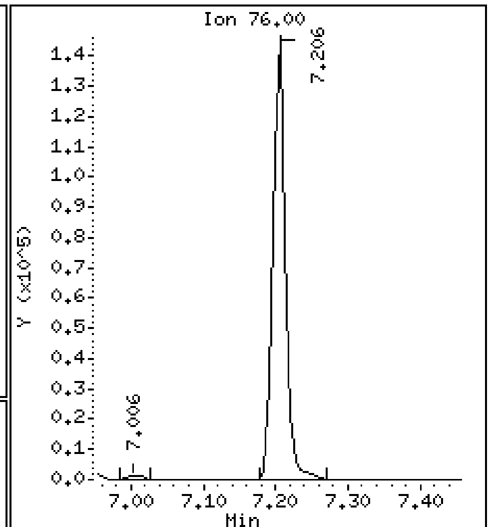
Column diameter: 0.18

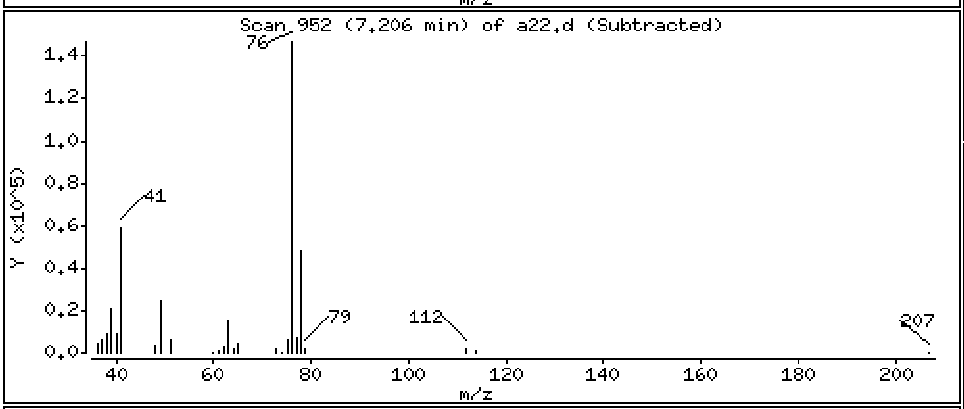
64 1,3-Dichloropropane

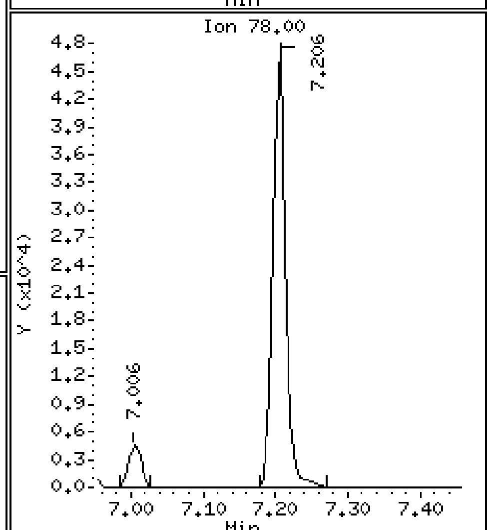
Concentration: 46.0 ppb

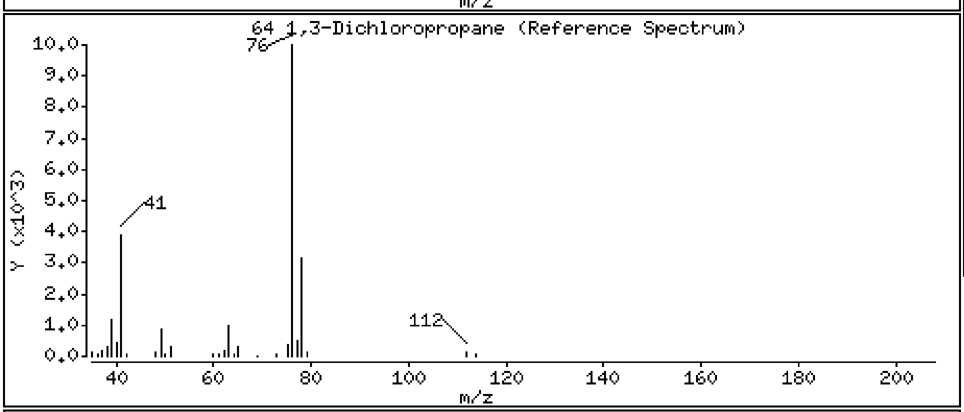
Review Code:

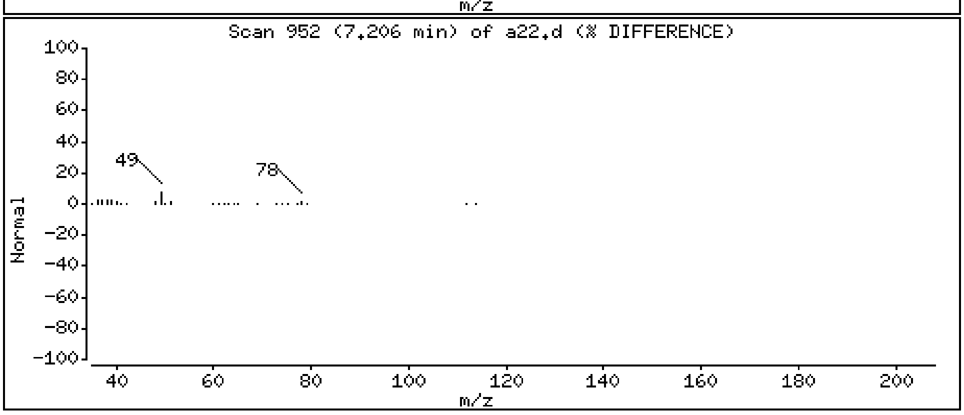












Date : 23-JAN-2023 20:03

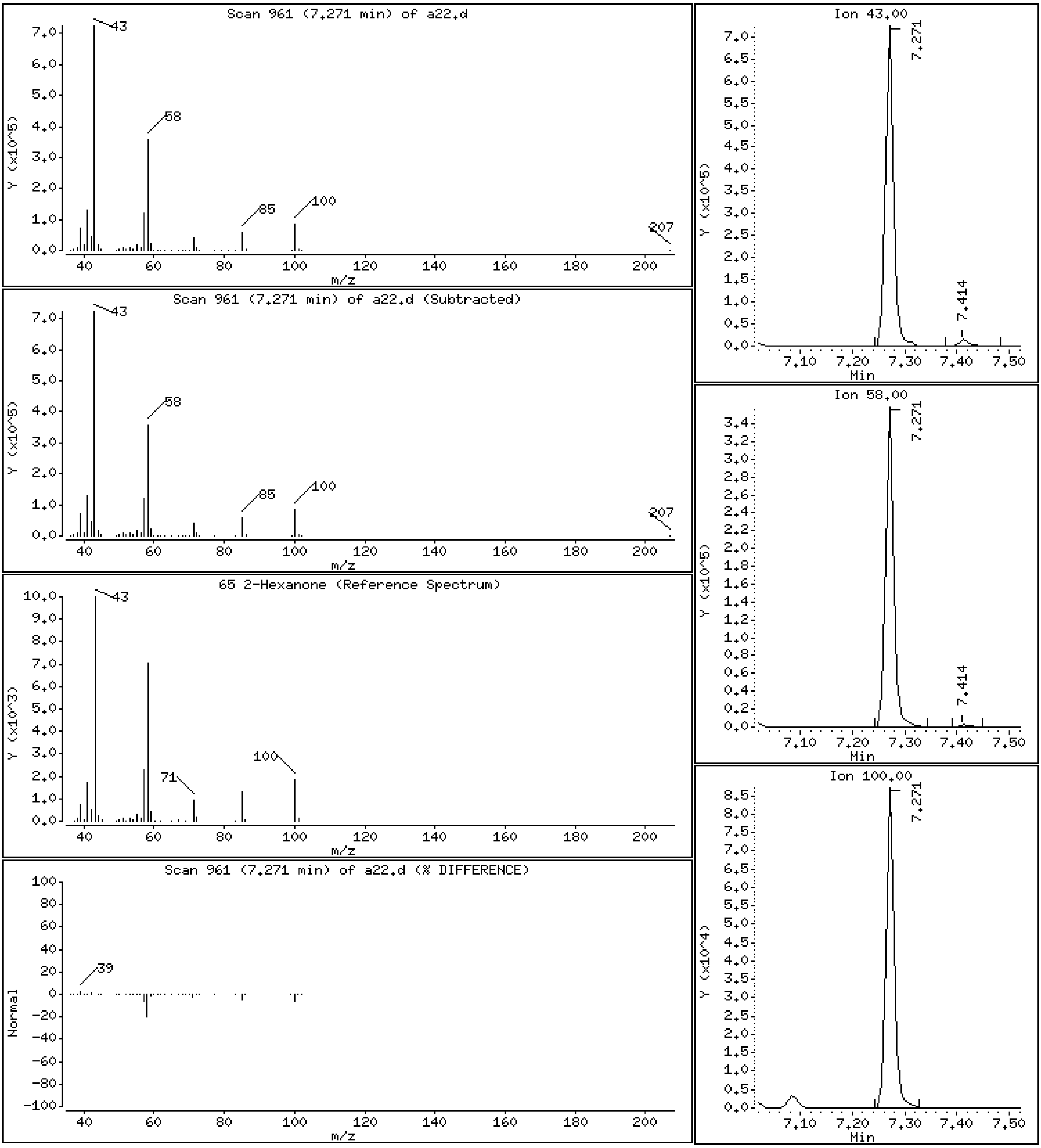
Client ID: LA2268MSD Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

65 2-Hexanone Concentration: 212 ppb Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

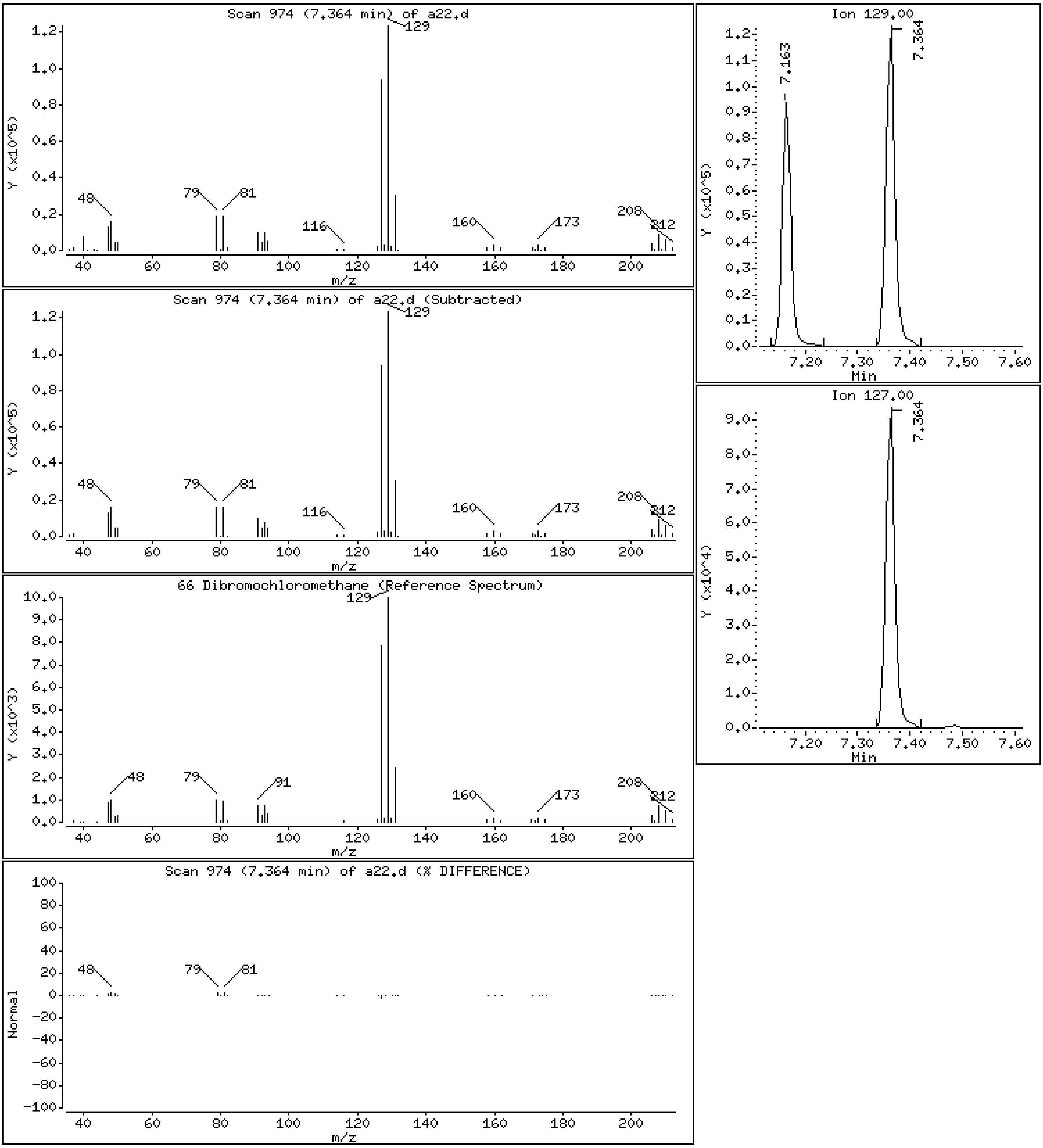
Column phase: DB-624

Column diameter: 0.18

66 Dibromochloromethane

Concentration: 54.0 ppb

Review Code:



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Date : 23-JAN-2023 20:03

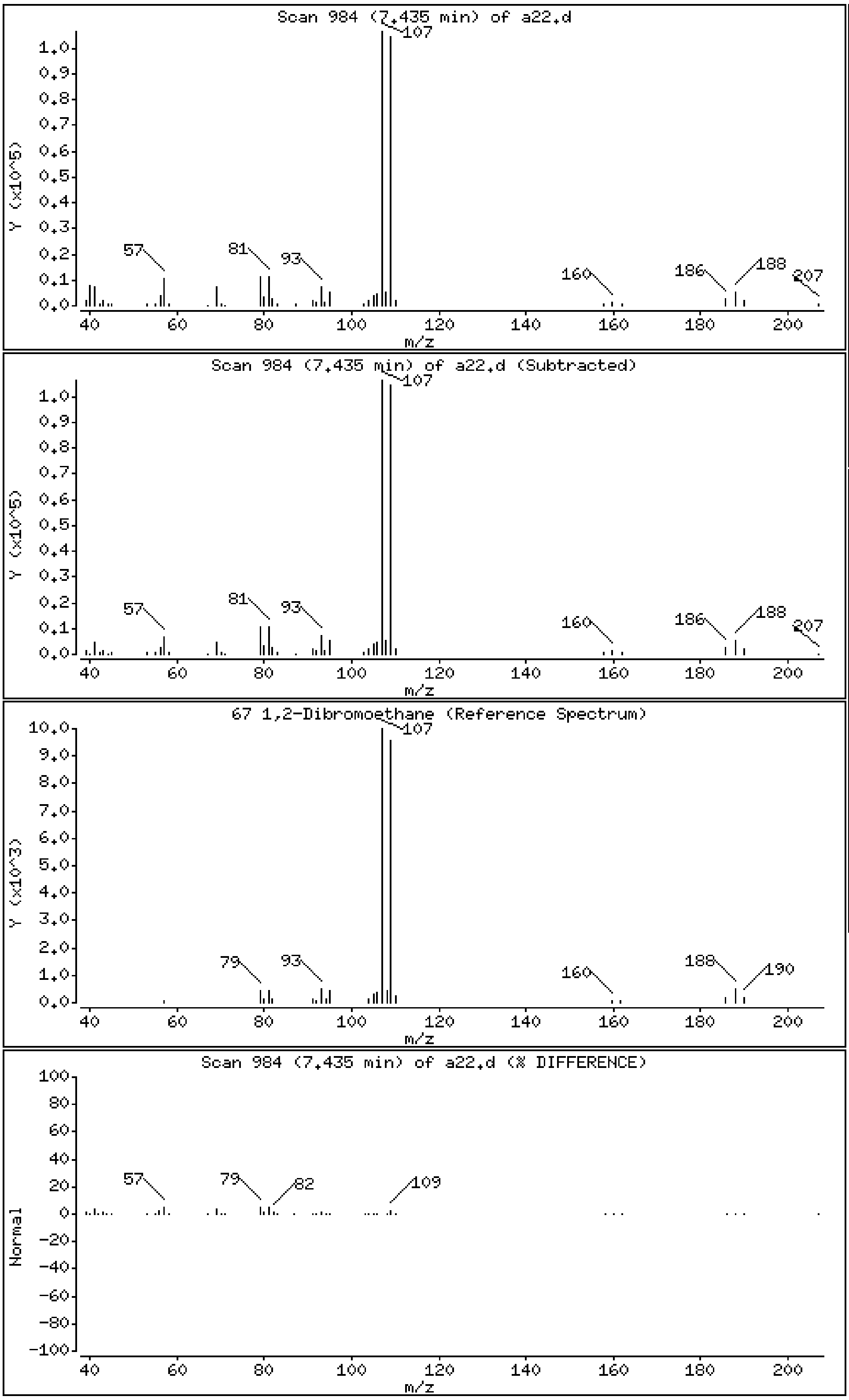
Client ID: LA2268MSD | Instrument: 50mvda.i

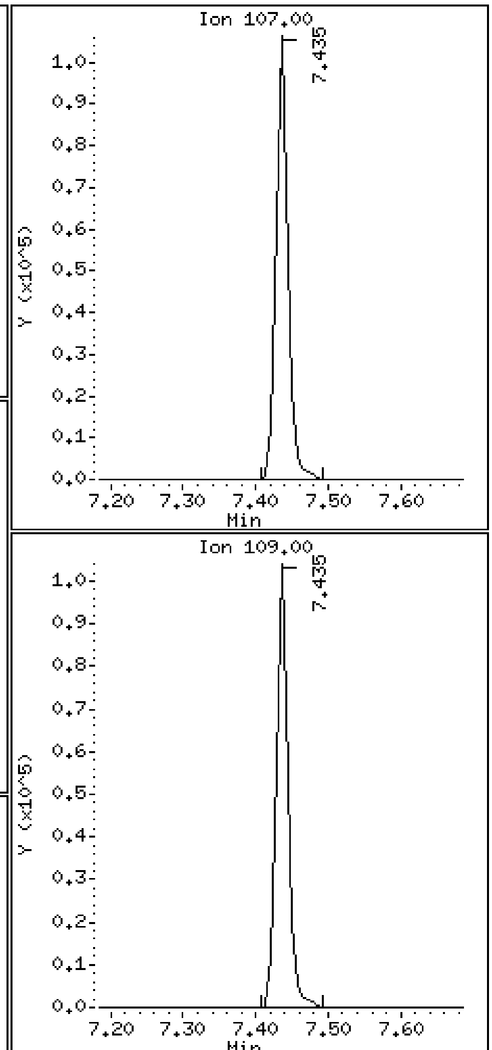
Sample Info: 3287470,336256:5

Purge Volume: 5.0 | Operator: tkg

Column phase: DB-624 | Column diameter: 0.18

67 1,2-Dibromoethane | Concentration: 48.1 ppb | Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

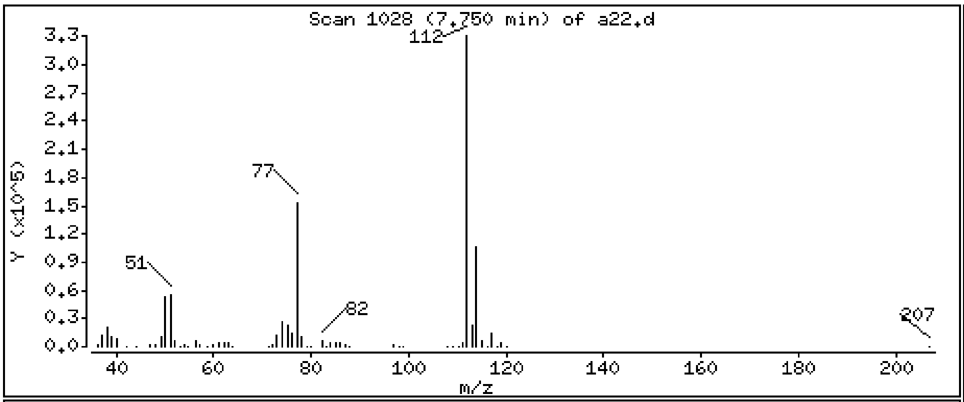
Column phase: DB-624

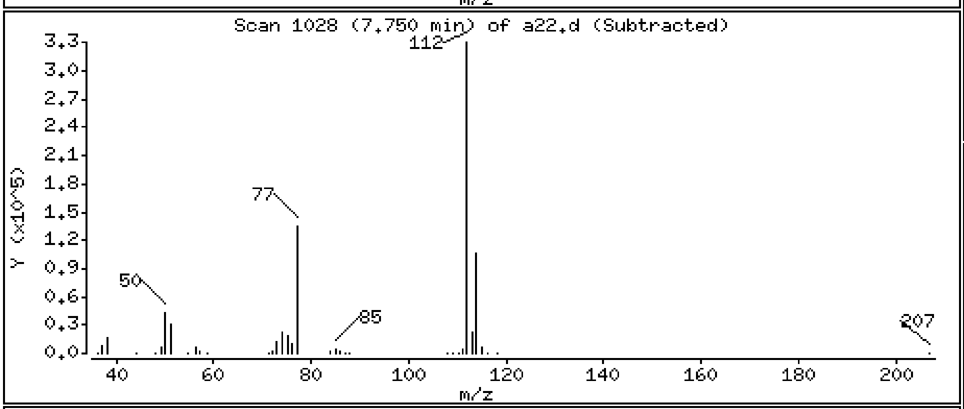
Column diameter: 0.18

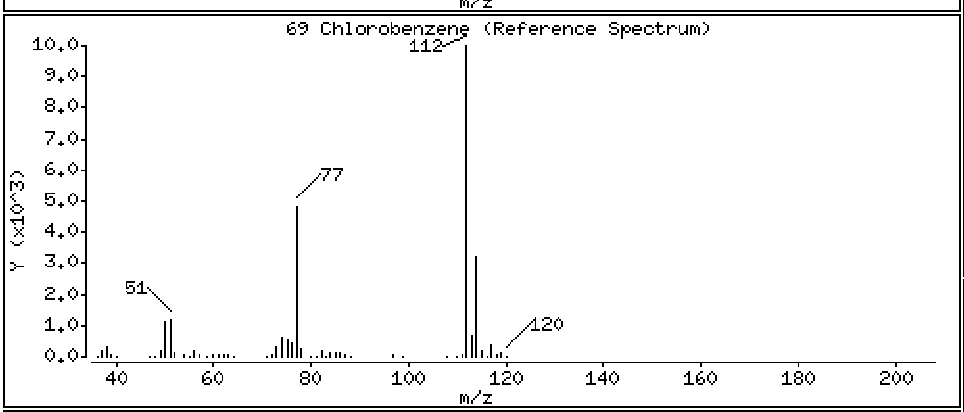
69 Chlorobenzene

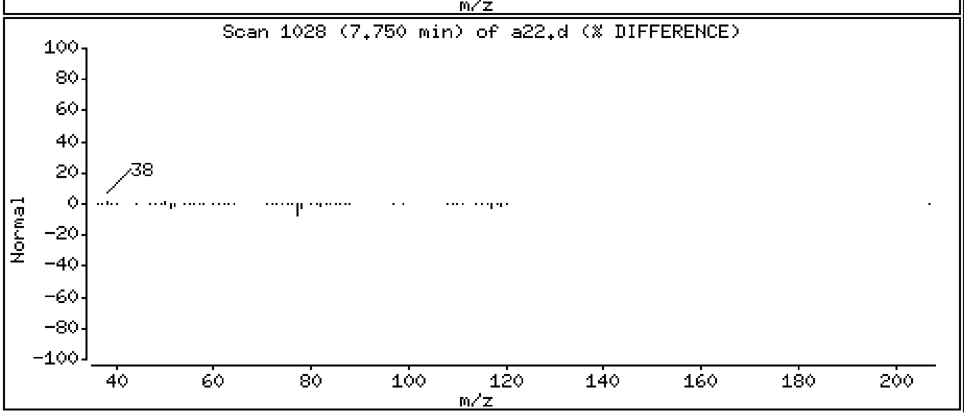
Concentration: 49.2 ppb

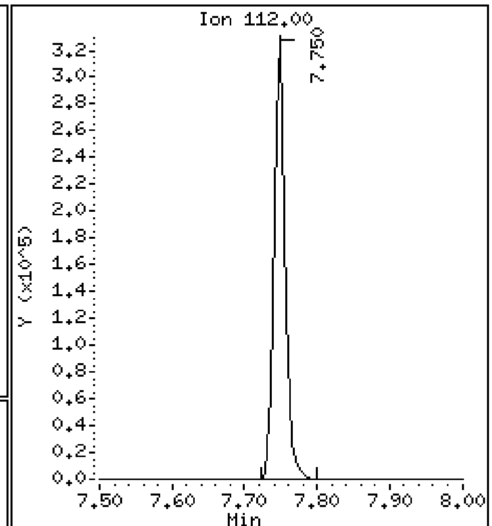
Review Code:

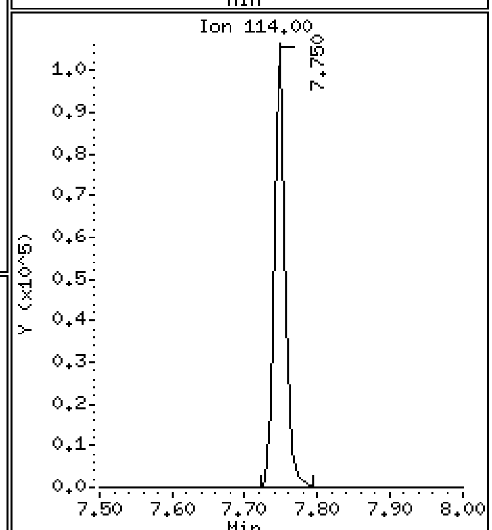


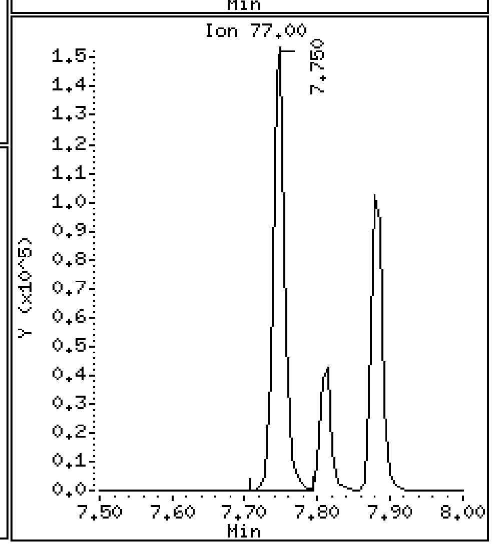












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

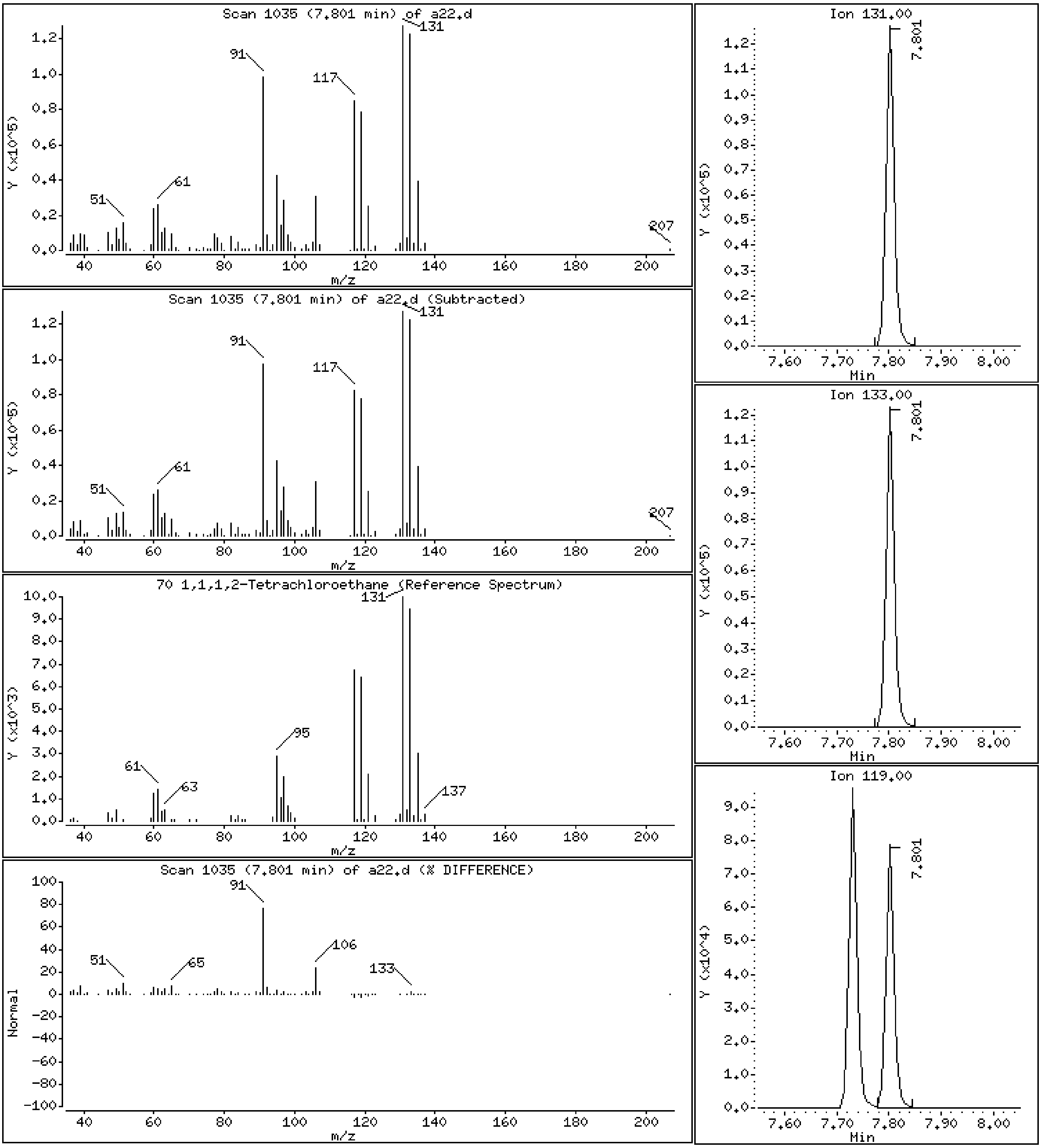
Column phase: DB-624

Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane

Concentration: 52.8 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

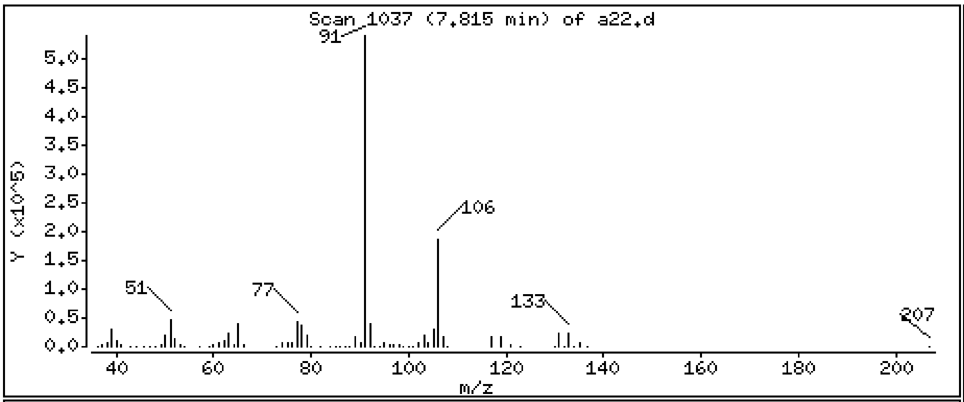
Column phase: DB-624

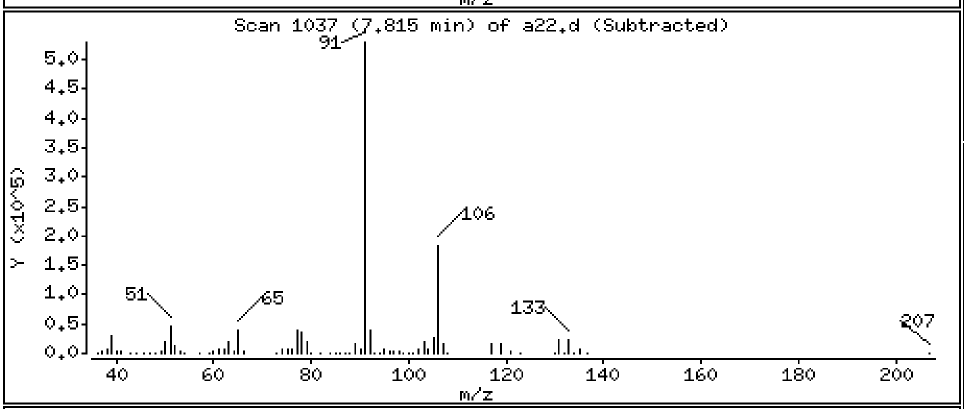
Column diameter: 0.18

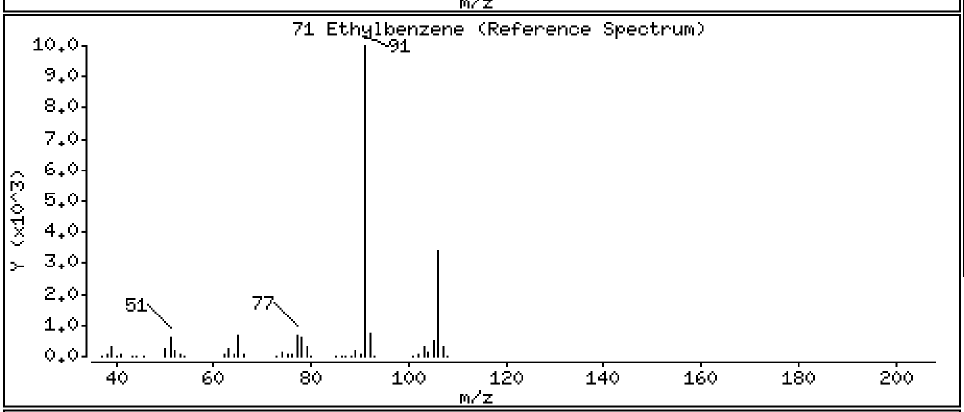
71 Ethylbenzene

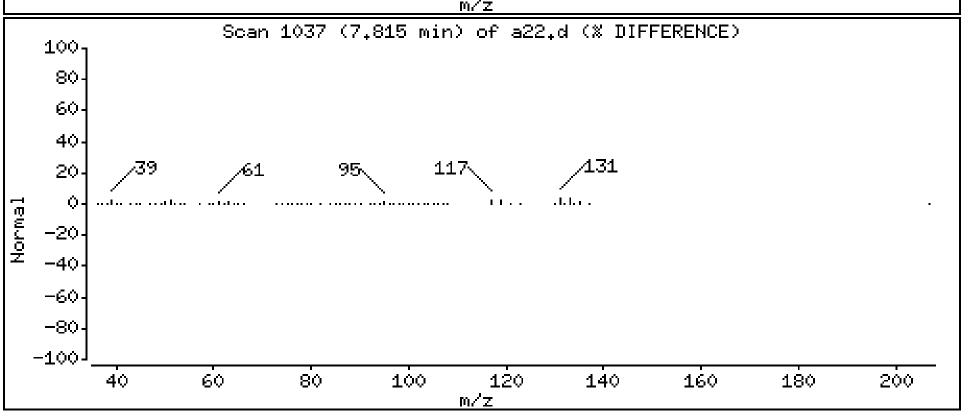
Concentration: 48.6 ppb

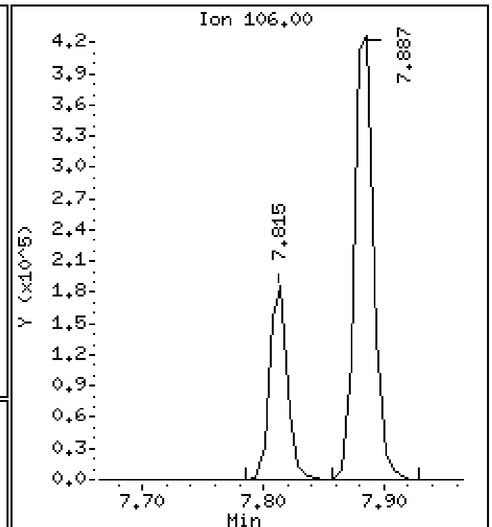
Review Code:

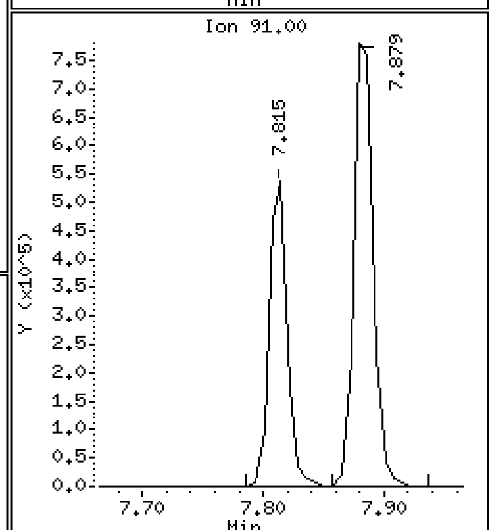












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

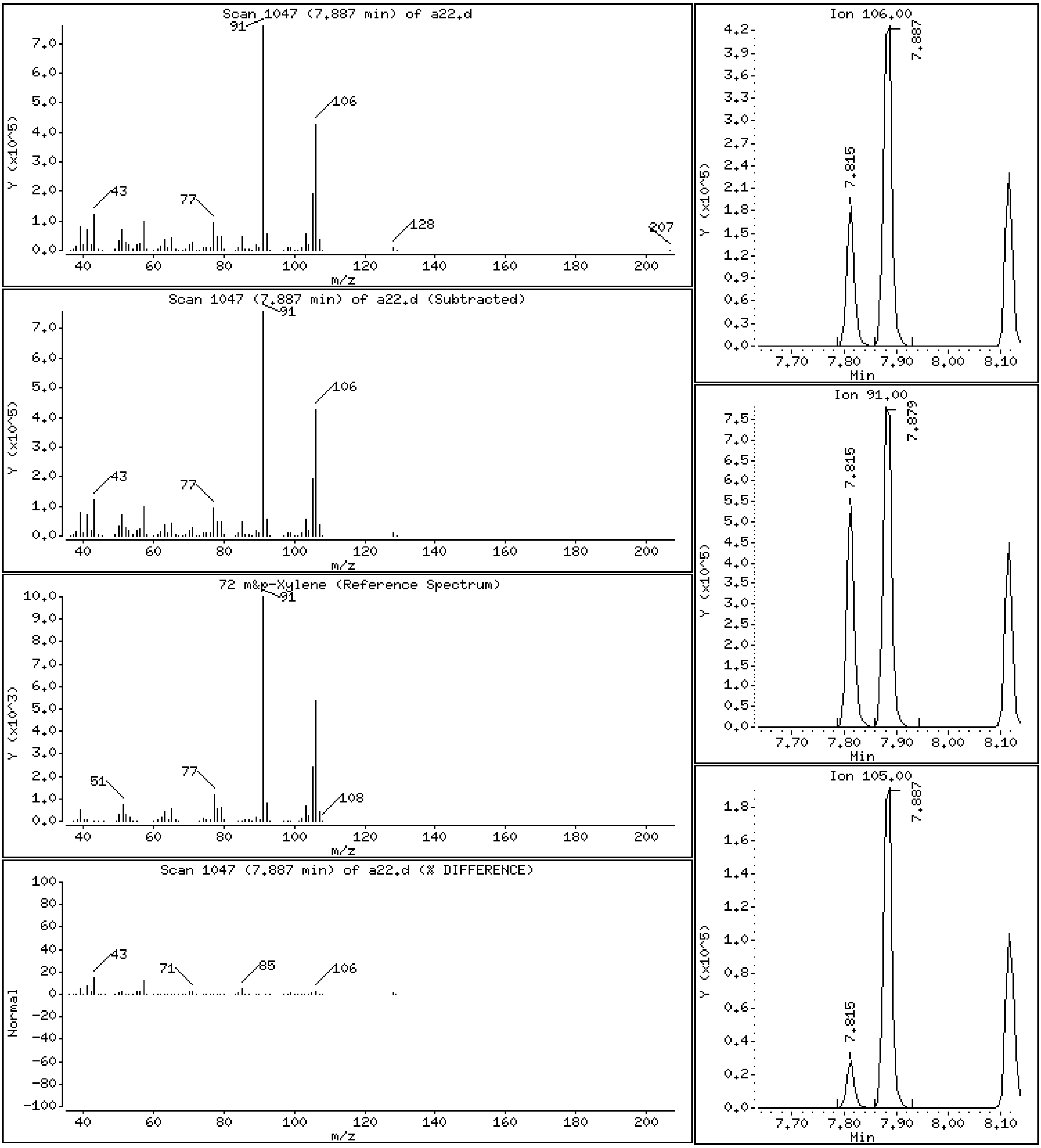
Column phase: DB-624

Column diameter: 0.18

72 m&p-Xylene

Concentration: 98.2 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

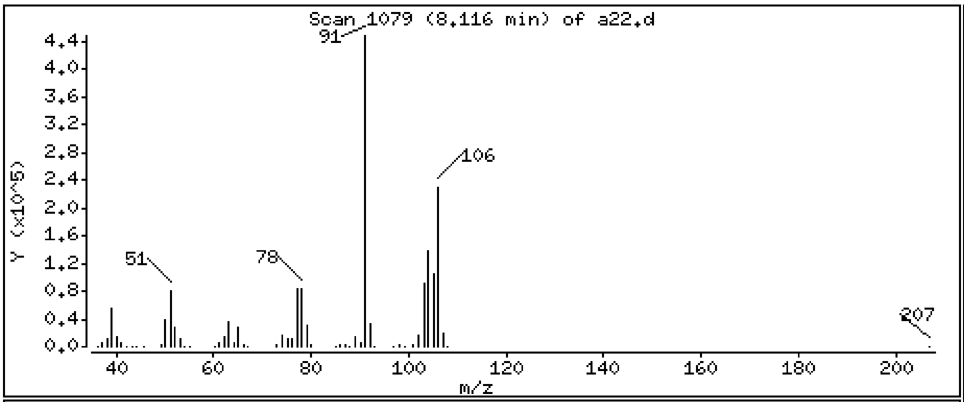
Column phase: DB-624

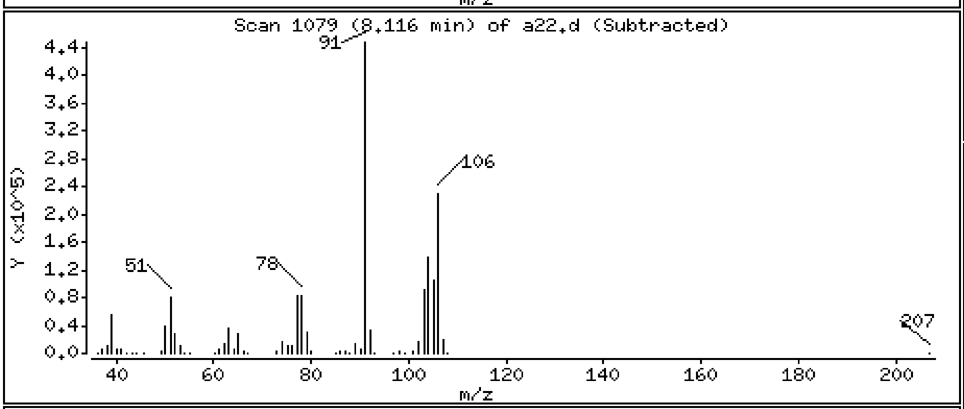
Column diameter: 0.18

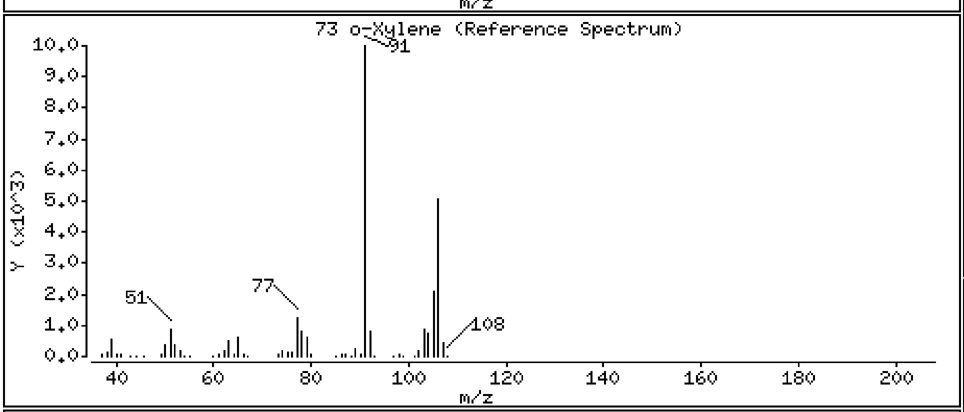
73 o-Xylene

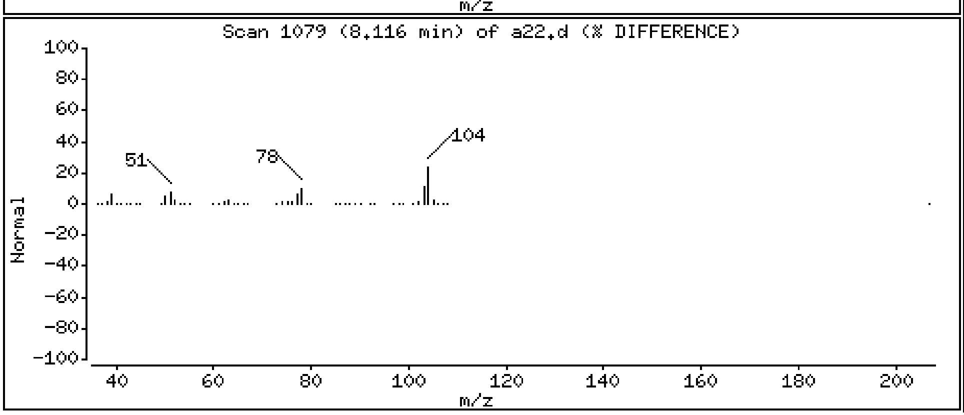
Concentration: 48.4 ppb

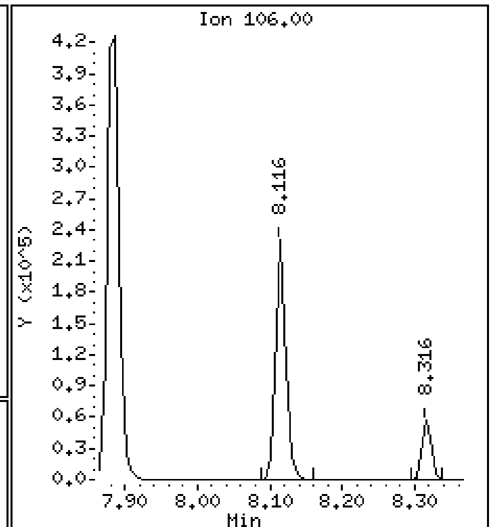
Review Code:

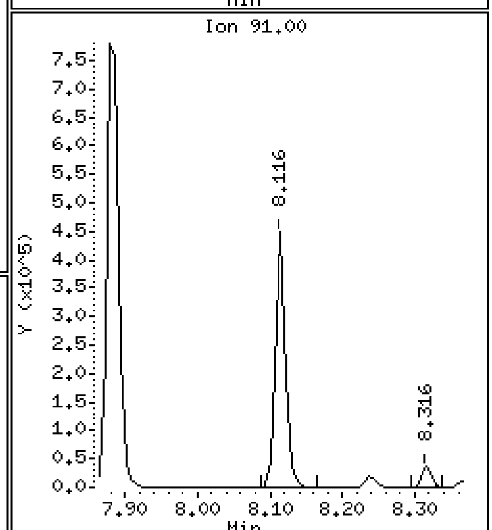


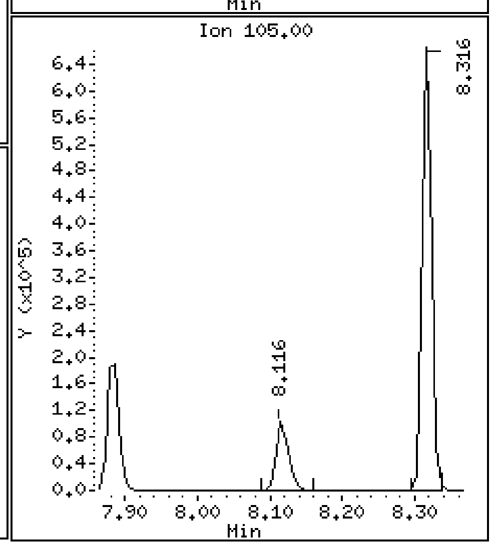












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

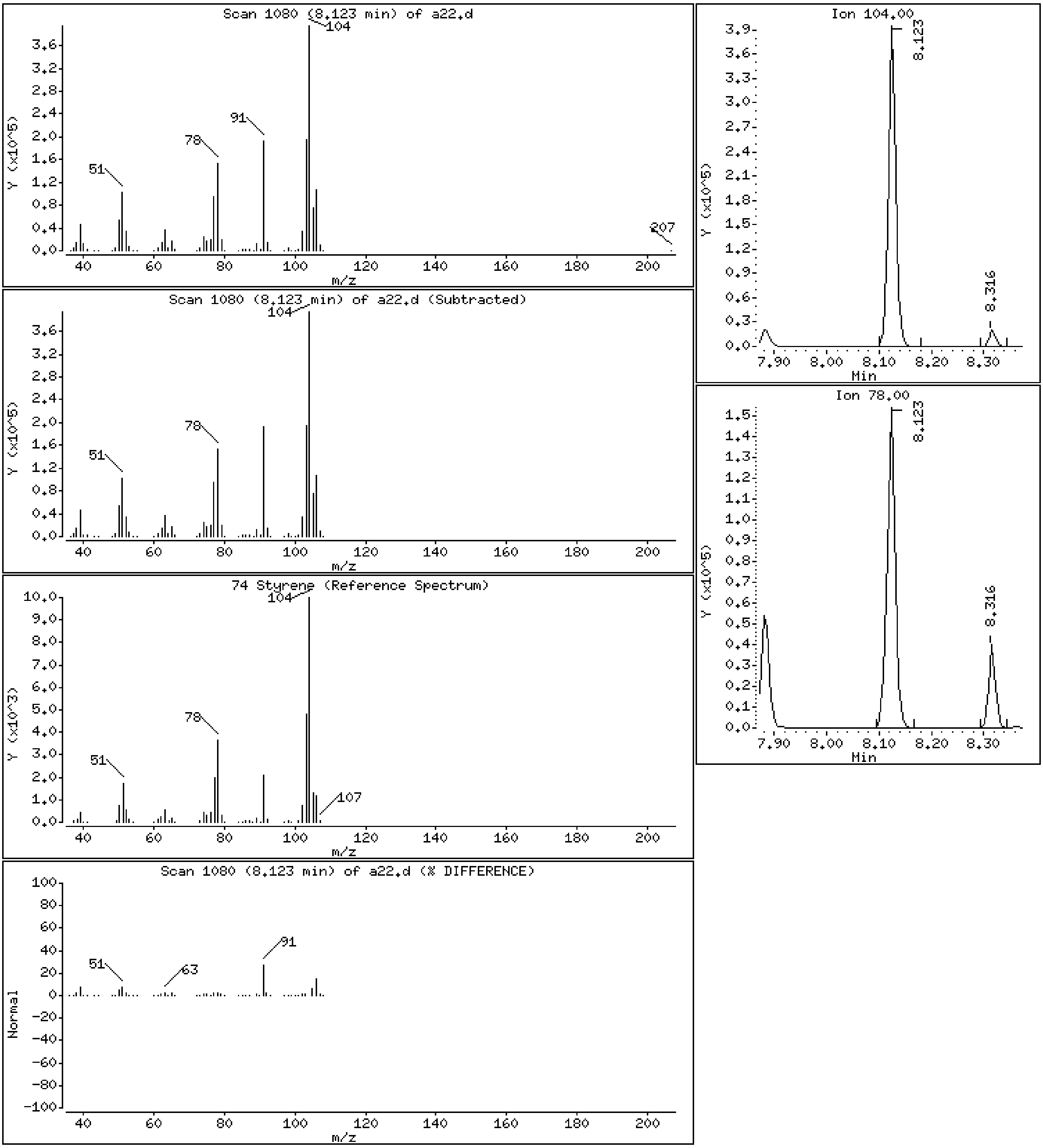
Column phase: DB-624

Column diameter: 0.18

74 Styrene

Concentration: 48.2 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

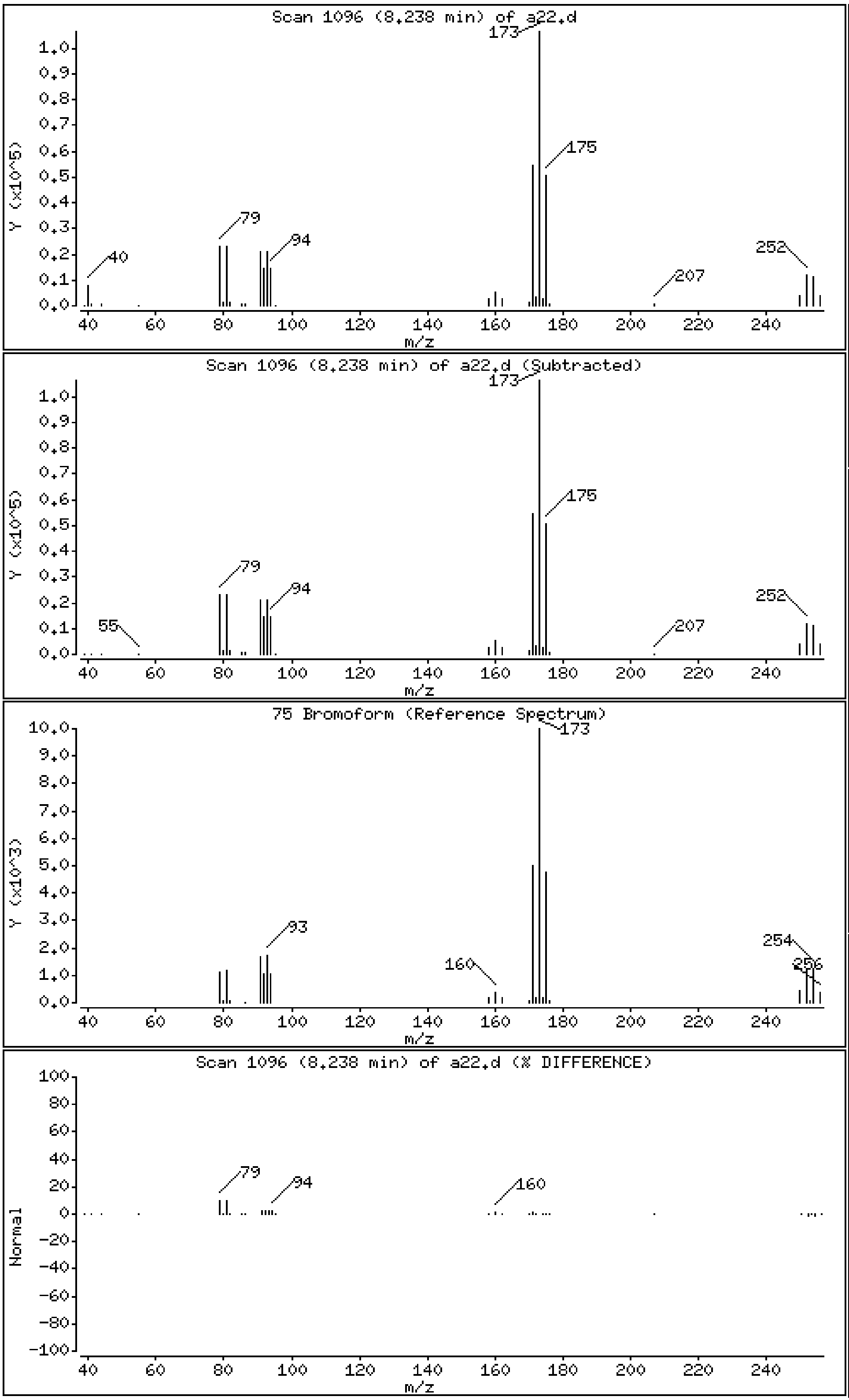
Column phase: DB-624

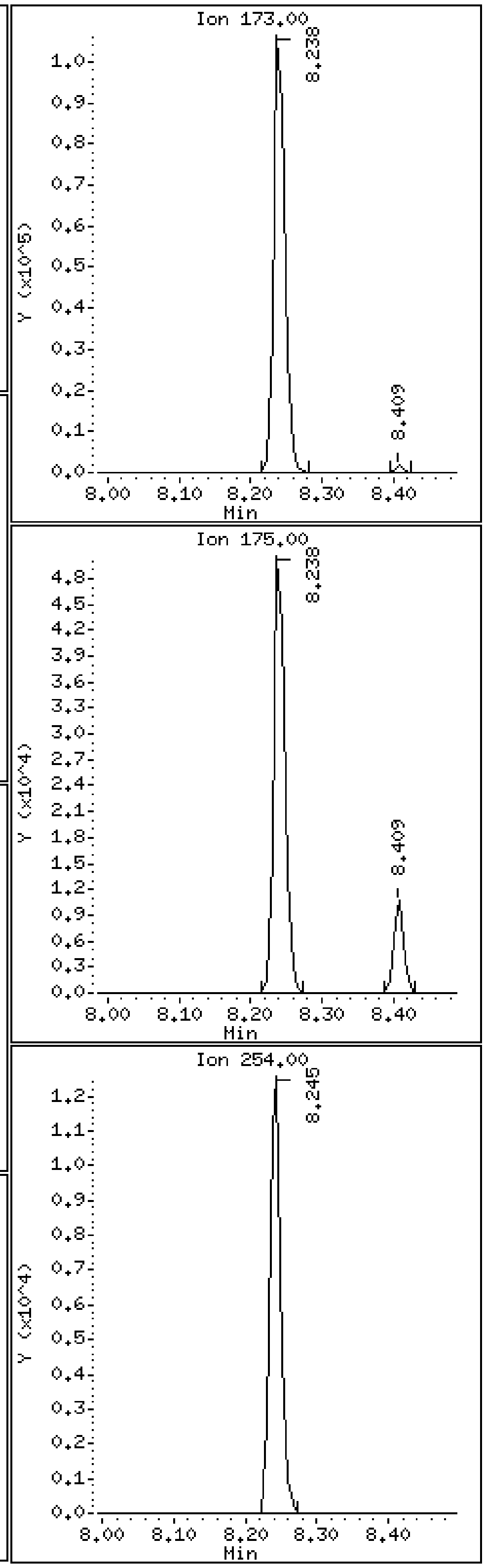
Column diameter: 0.18

75 Bromoform

Concentration: 50.7 ppb

Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

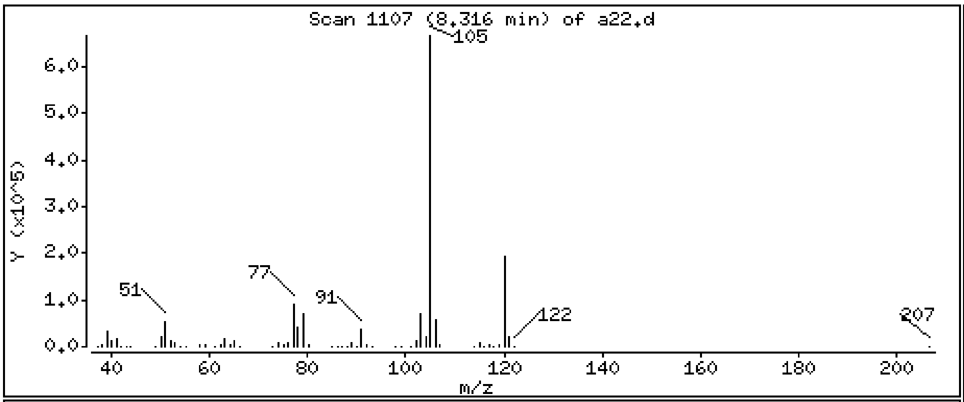
Column phase: DB-624

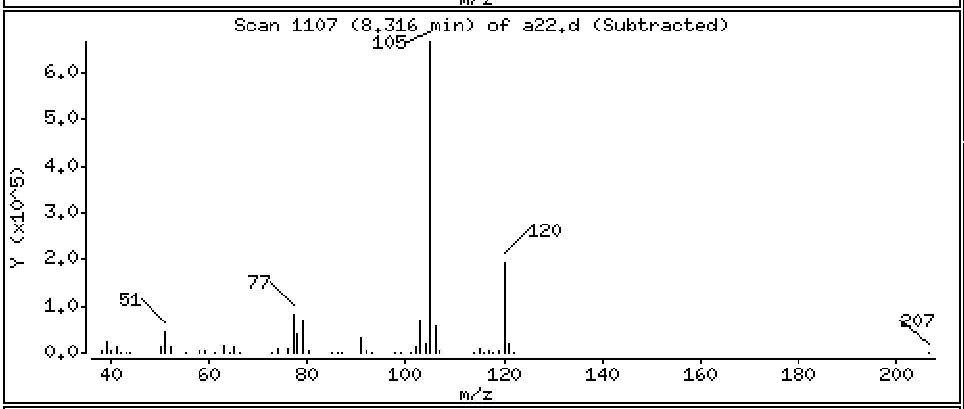
Column diameter: 0.18

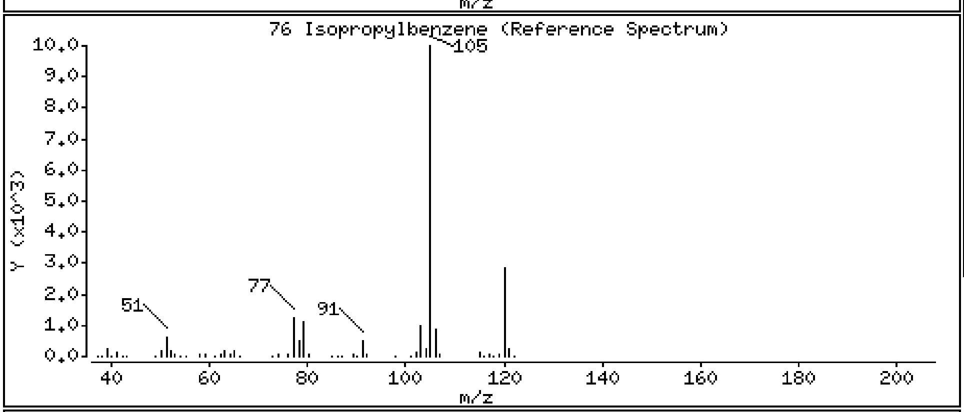
76 Isopropylbenzene

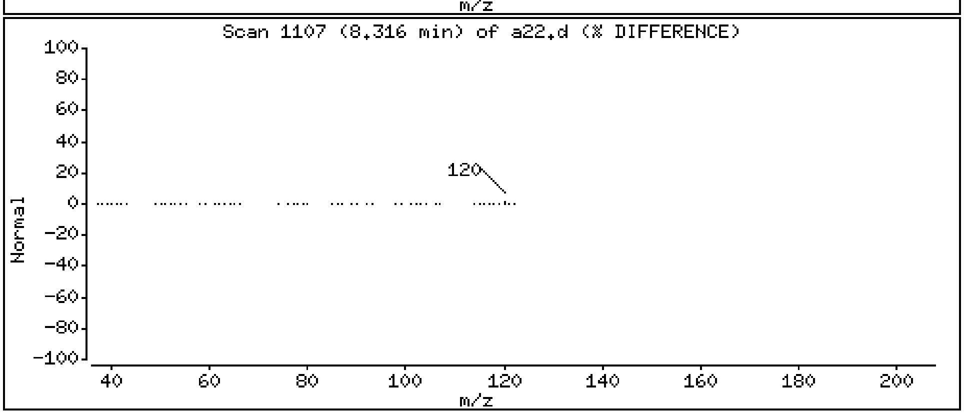
Concentration: 48.5 ppb

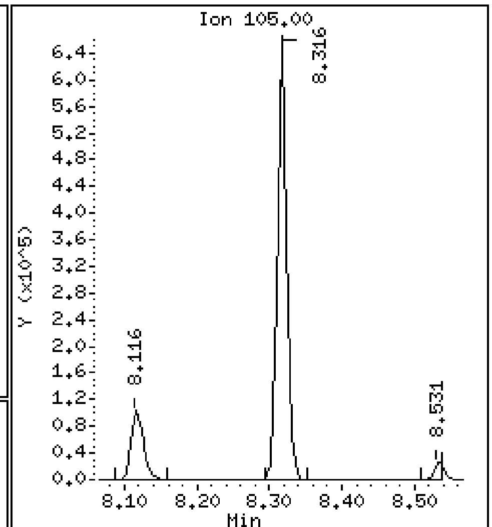
Review Code:

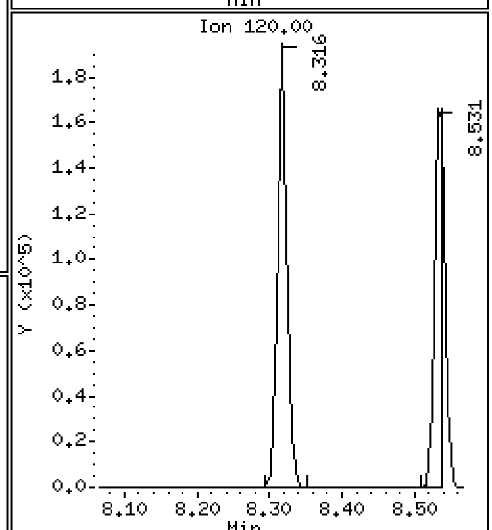












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

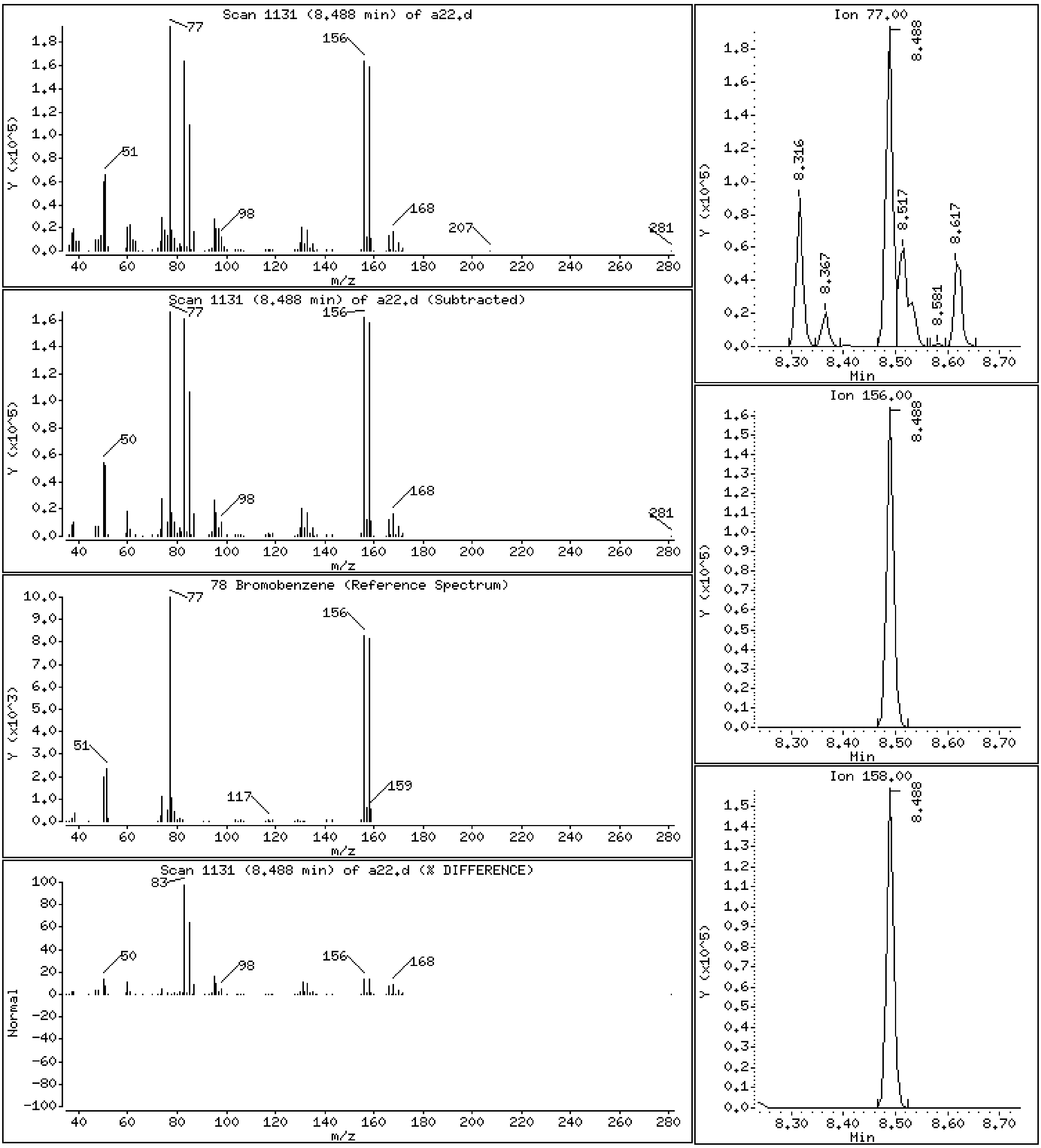
Column phase: DB-624

Column diameter: 0.18

78 Bromobenzene

Concentration: 45.8 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

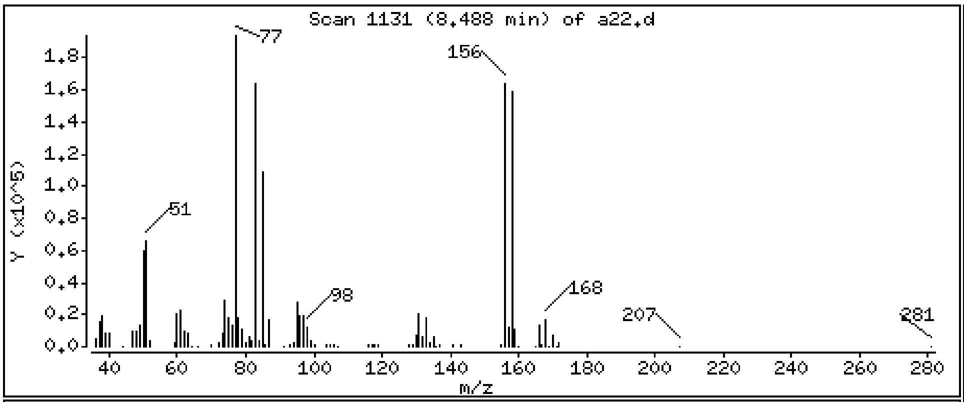
Column phase: DB-624

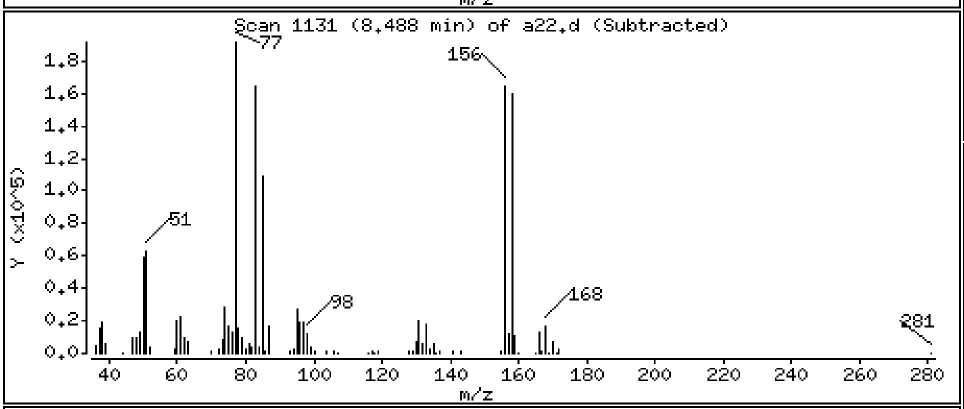
Column diameter: 0.18

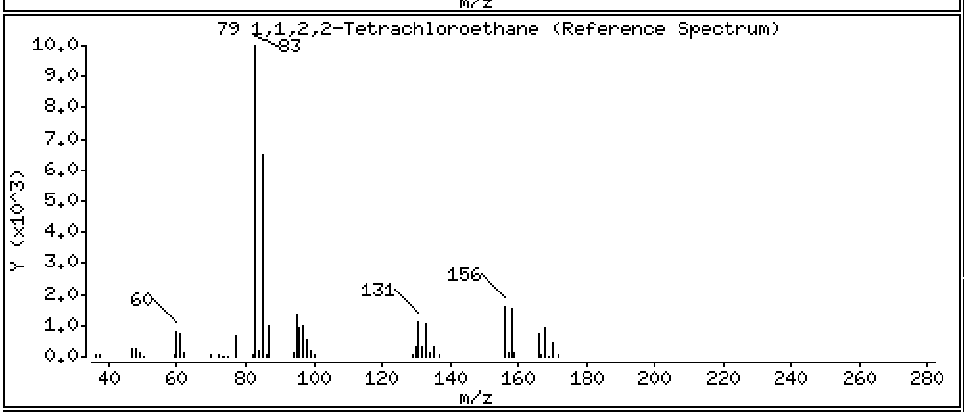
79 1,1,2,2-Tetrachloroethane

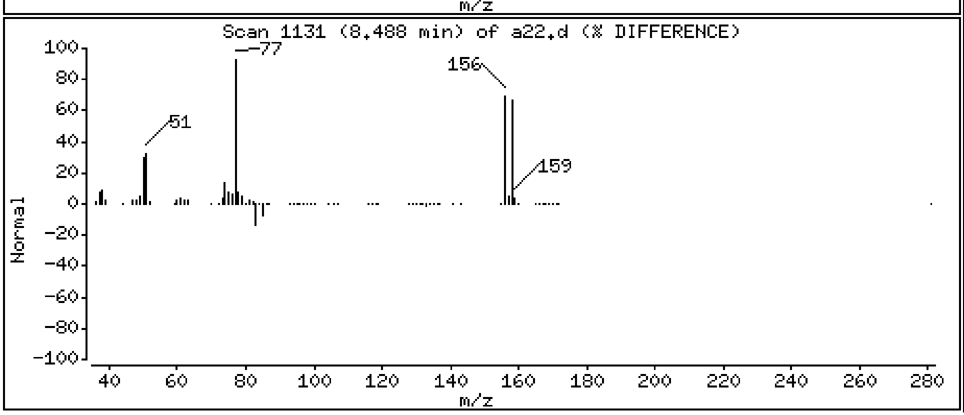
Concentration: 40.5 ppb

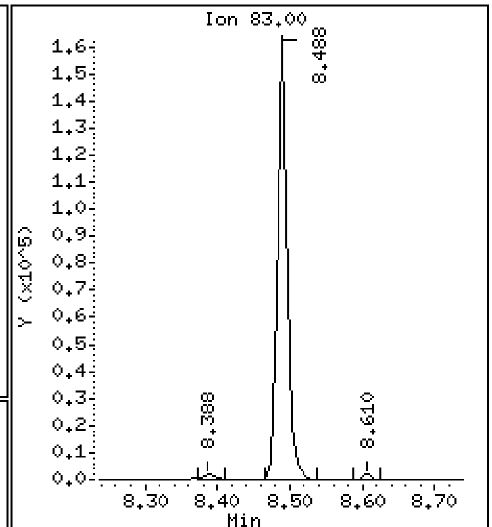
Review Code:

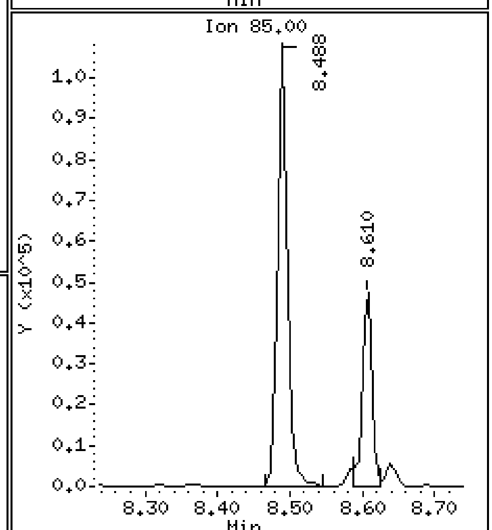


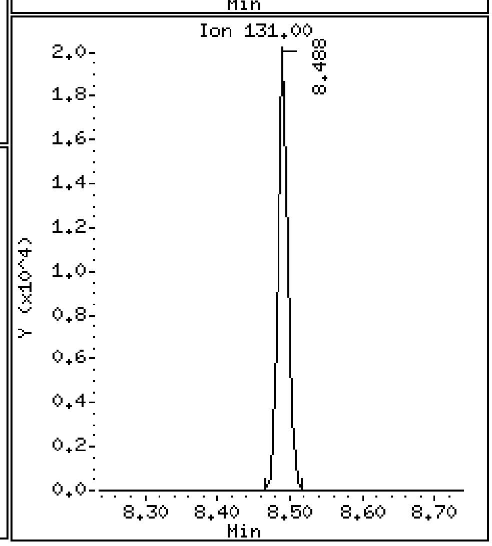












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

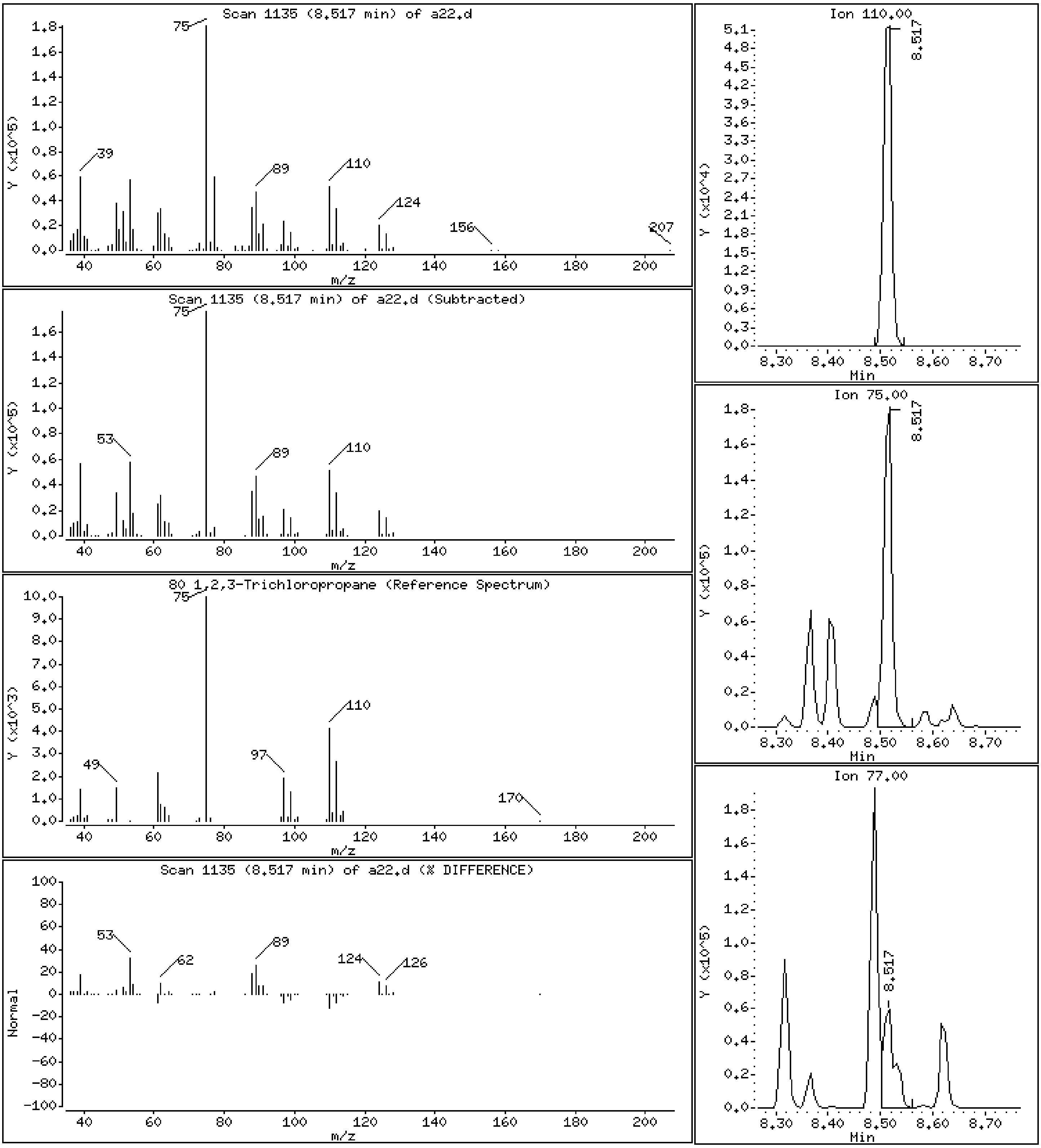
Column phase: DB-624

Column diameter: 0.18

80 1,2,3-Trichloropropane

Concentration: 45.0 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

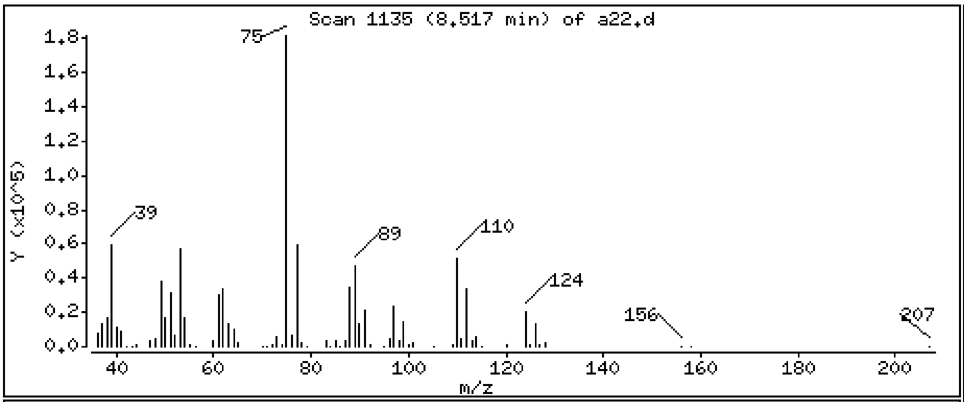
Column phase: DB-624

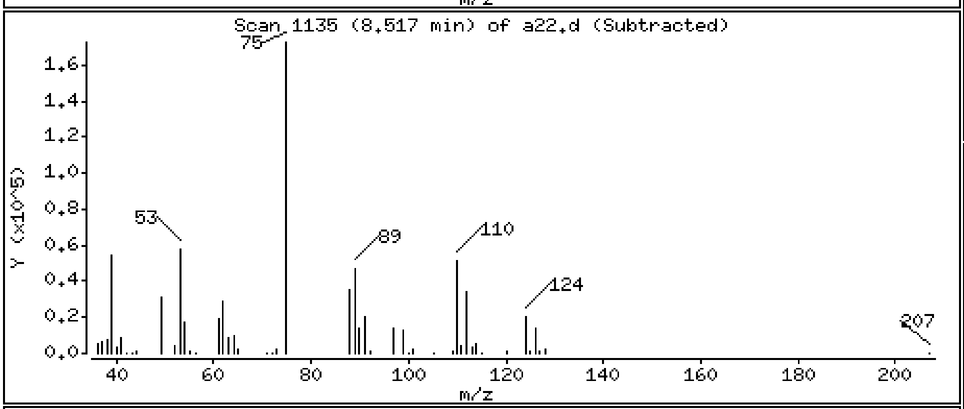
Column diameter: 0.18

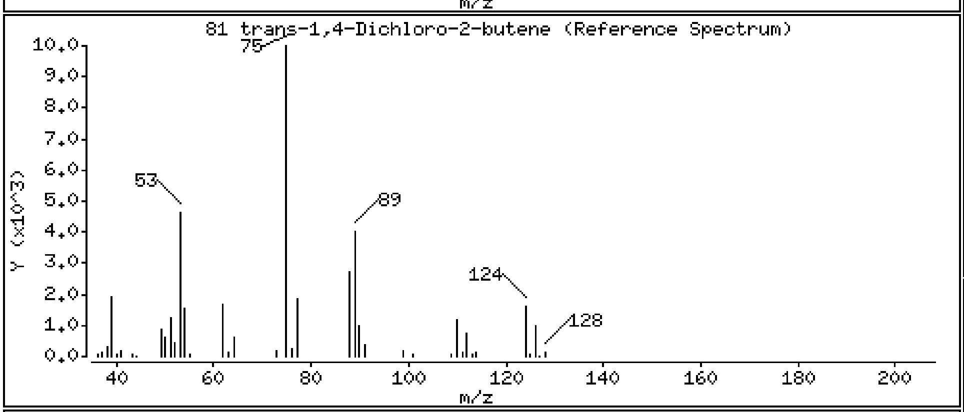
81 trans-1,4-Dichloro-2-butene

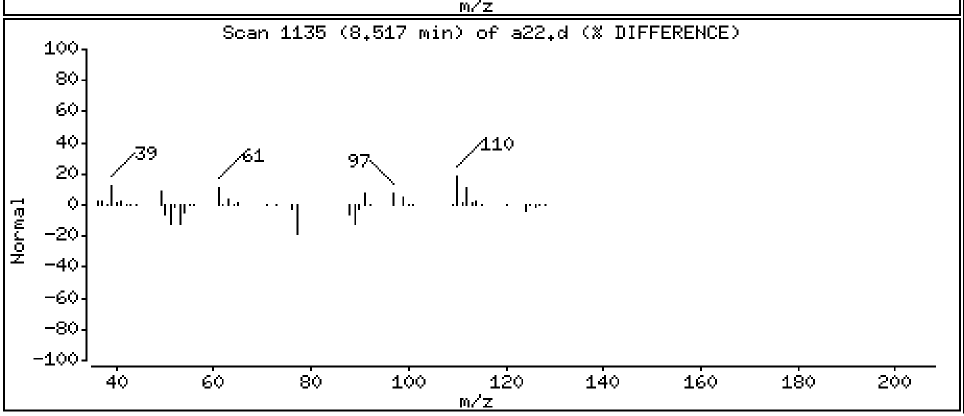
Concentration: 42.8 ppb

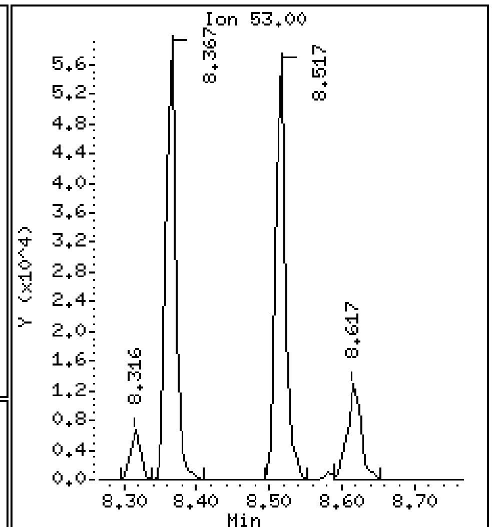
Review Code:

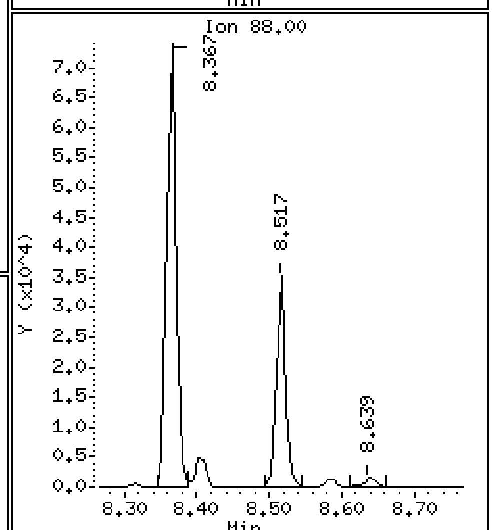


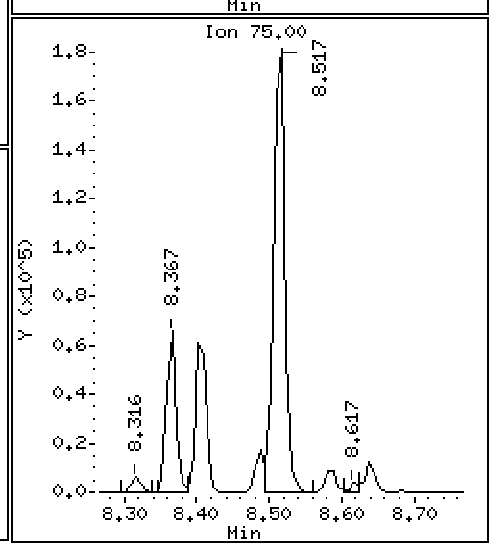












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

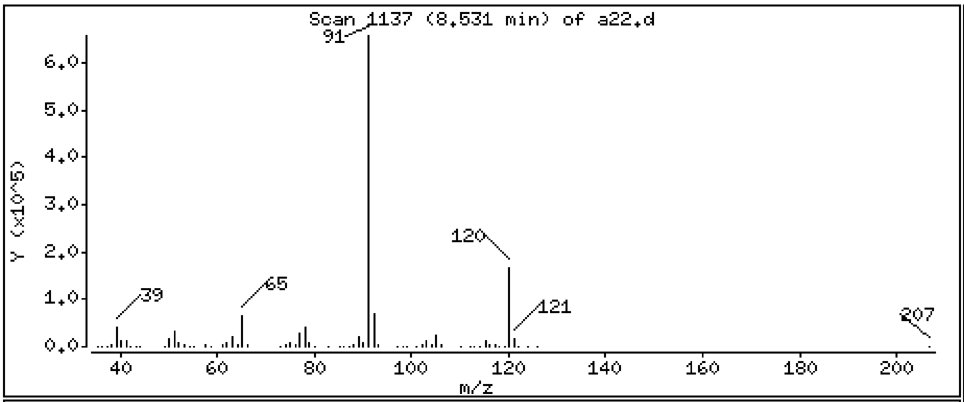
Column phase: DB-624

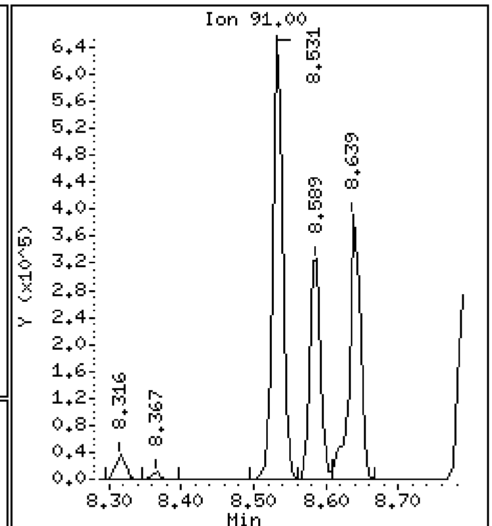
Column diameter: 0.18

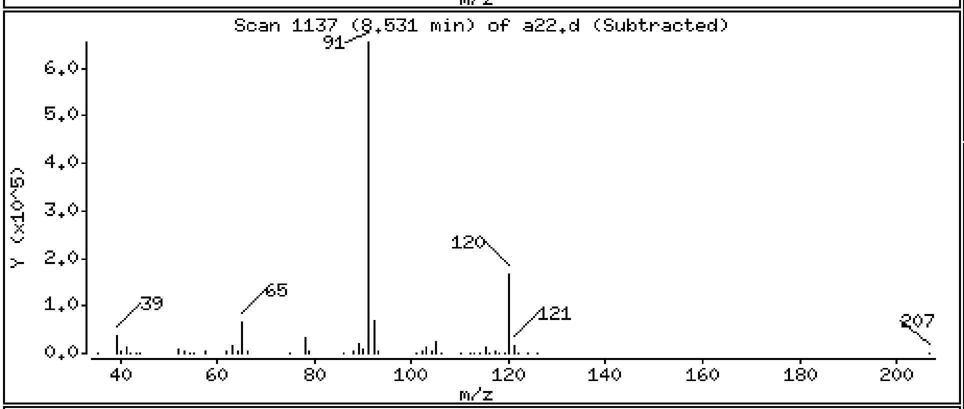
82 n-Propylbenzene

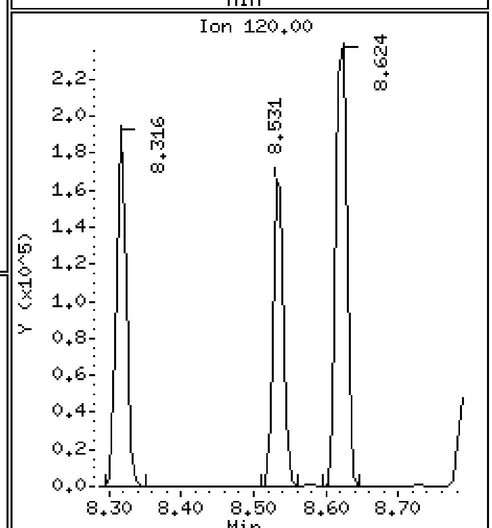
Concentration: 40.7 ppb

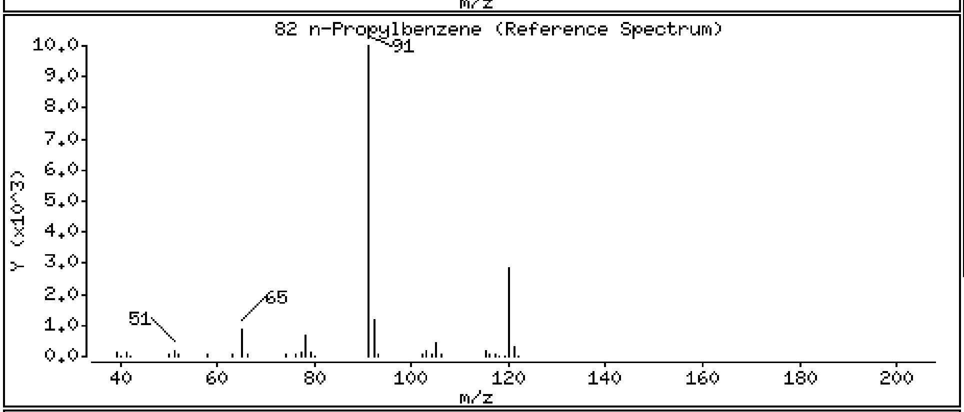
Review Code:

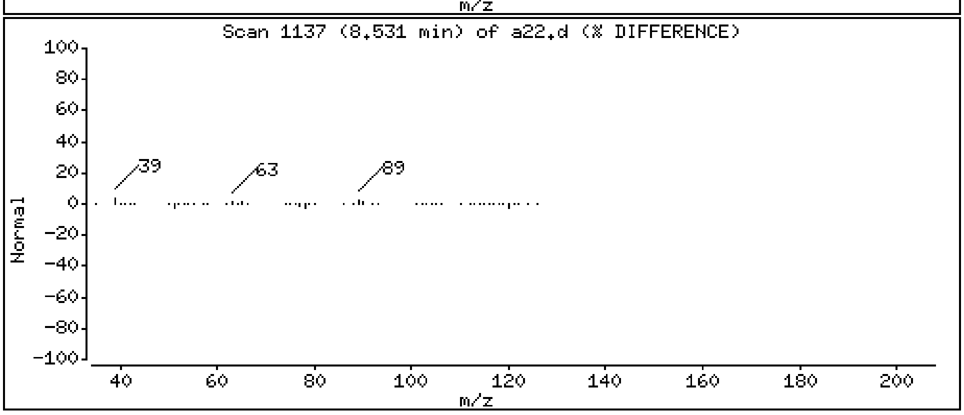












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

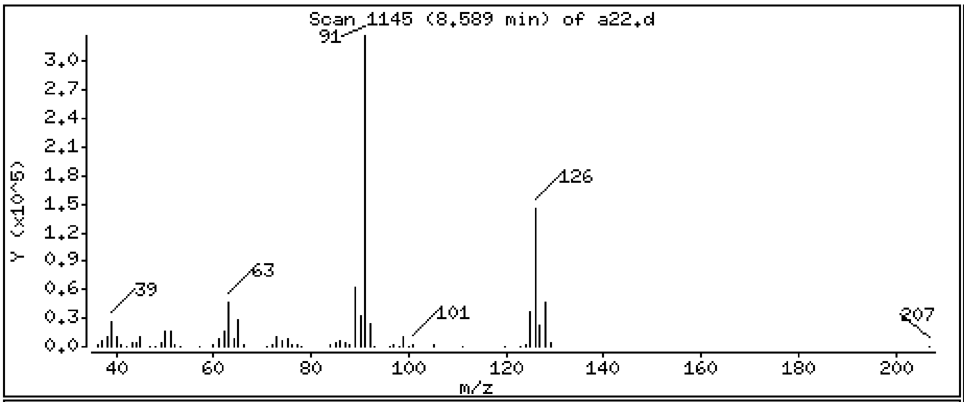
Column phase: DB-624

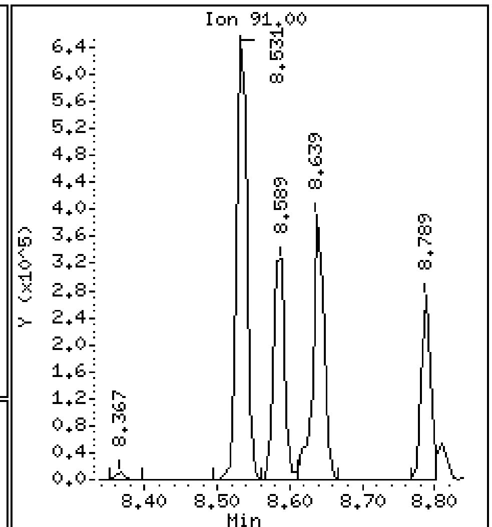
Column diameter: 0.18

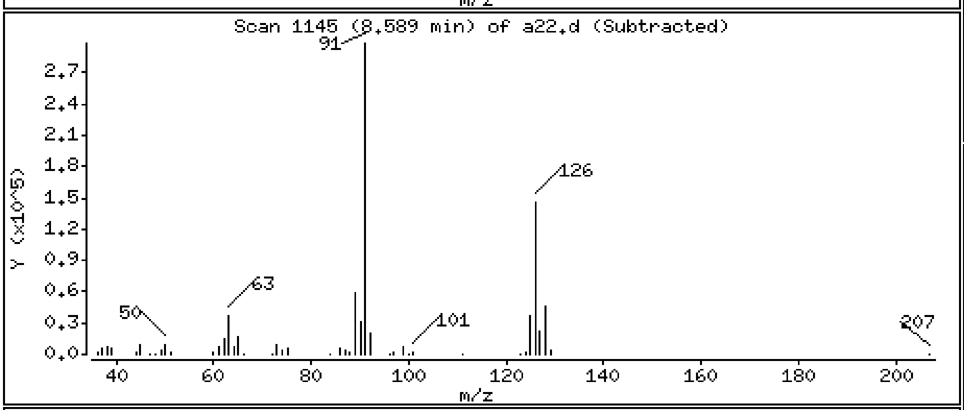
83 2-Chlorotoluene

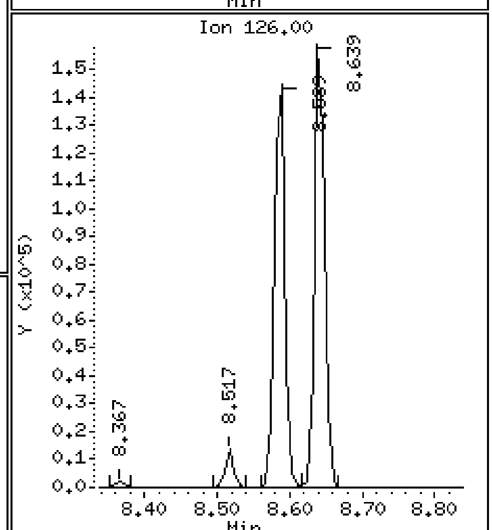
Concentration: 41.3 ppb

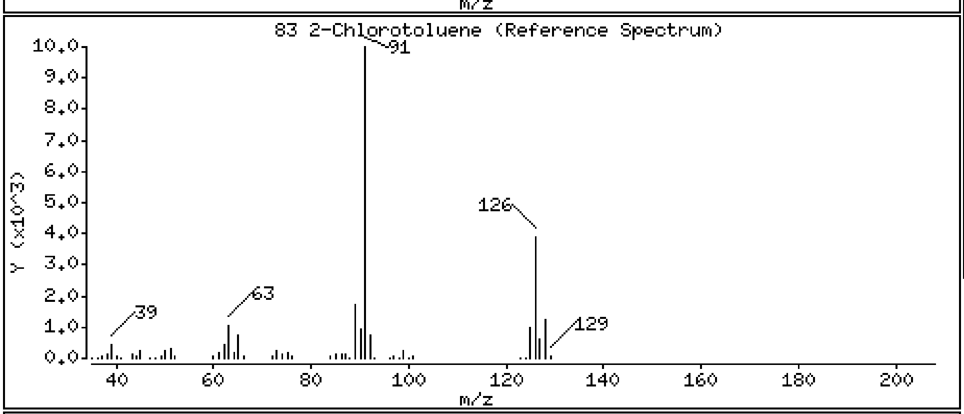
Review Code:

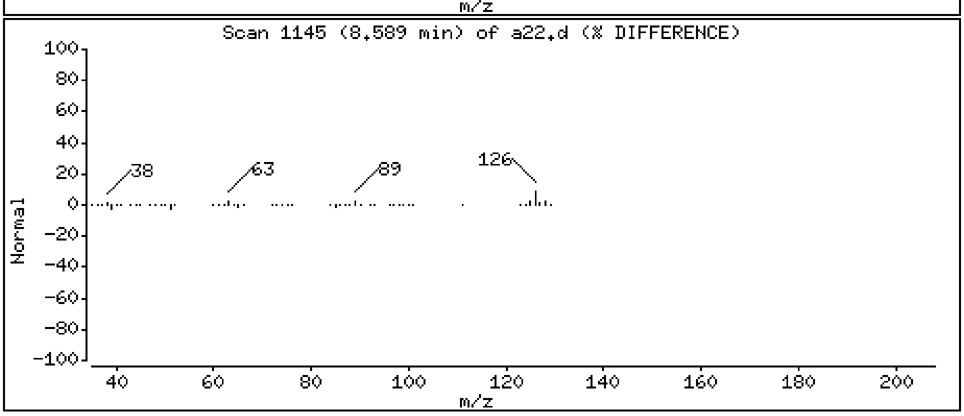












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

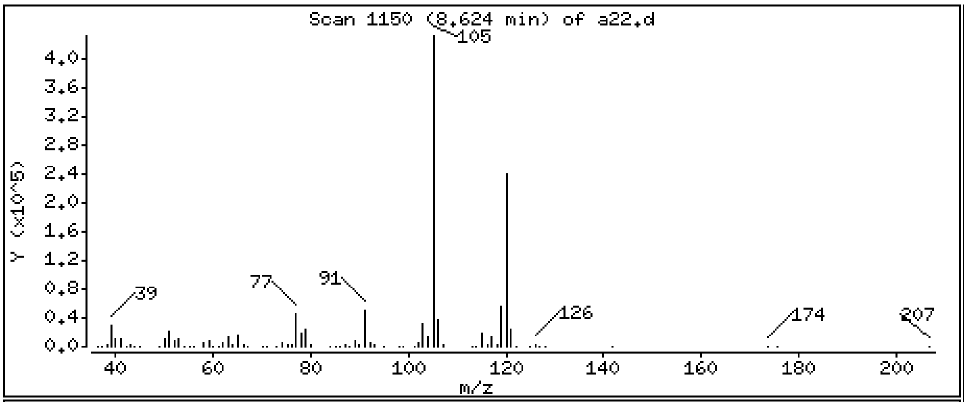
Column phase: DB-624

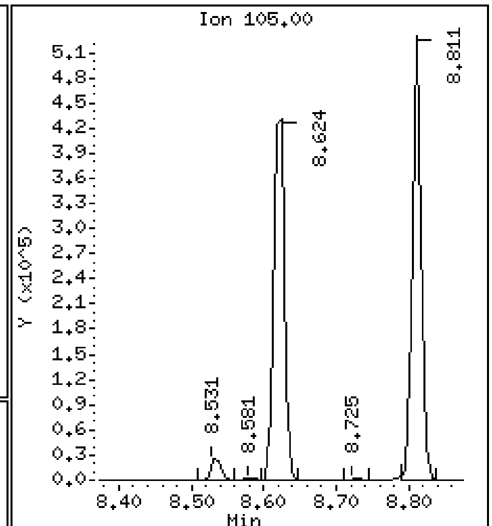
Column diameter: 0.18

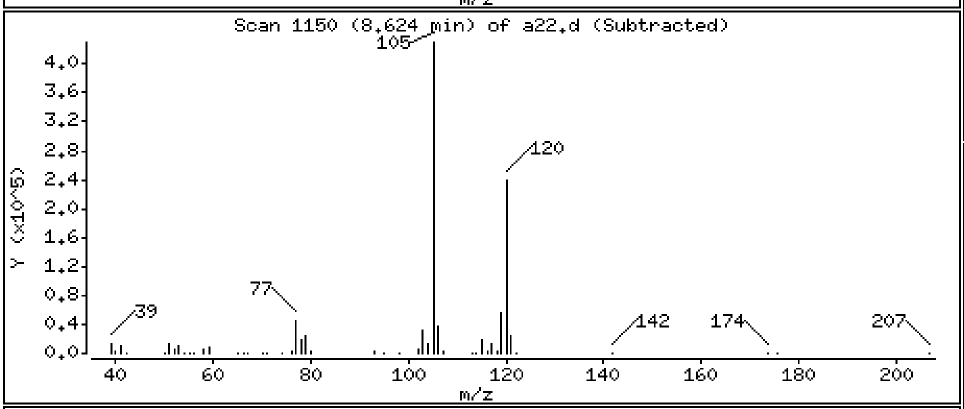
84 1,3,5-Trimethylbenzene

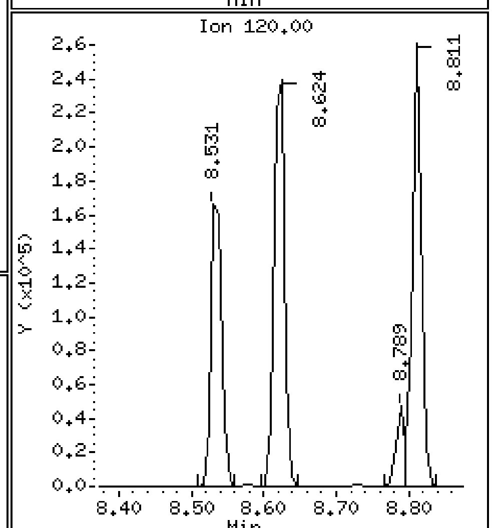
Concentration: 42.8 ppb

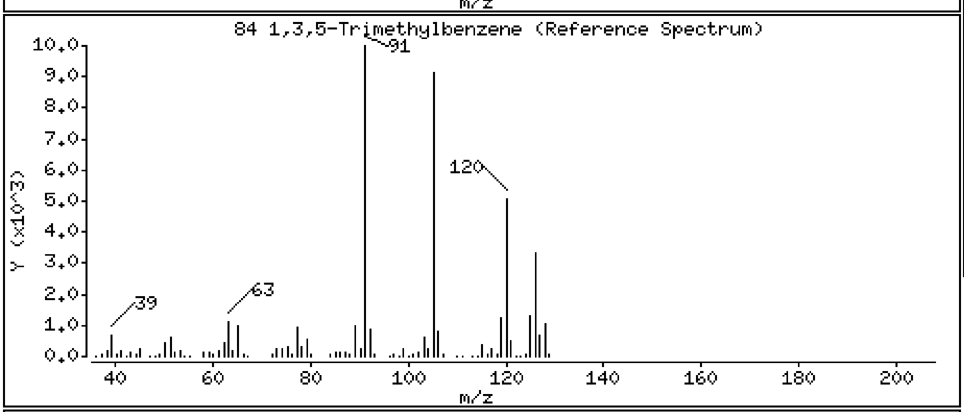
Review Code:

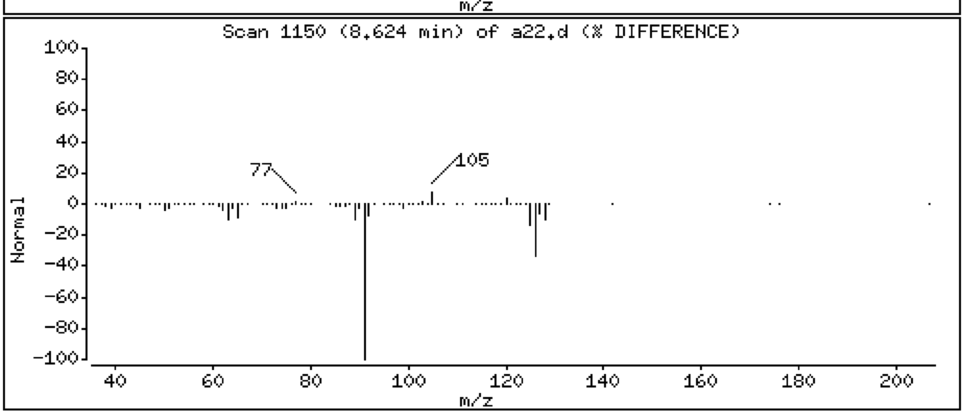












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

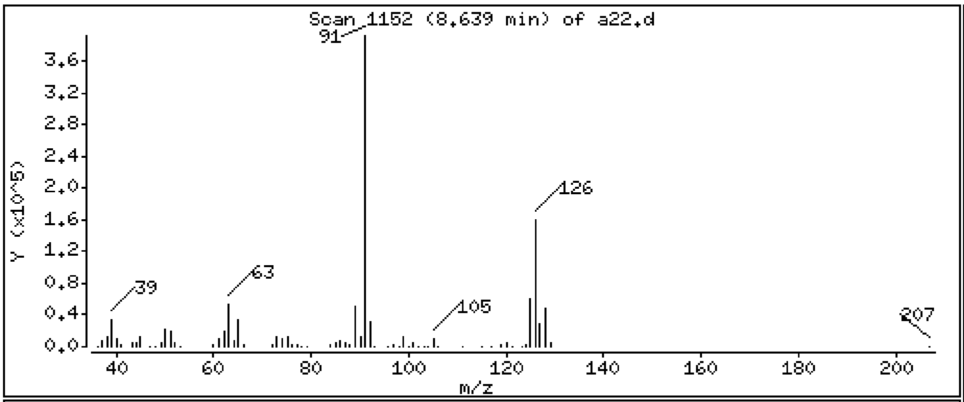
Column phase: DB-624

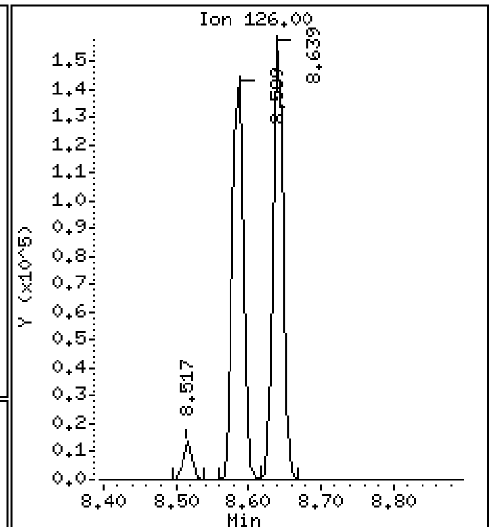
Column diameter: 0.18

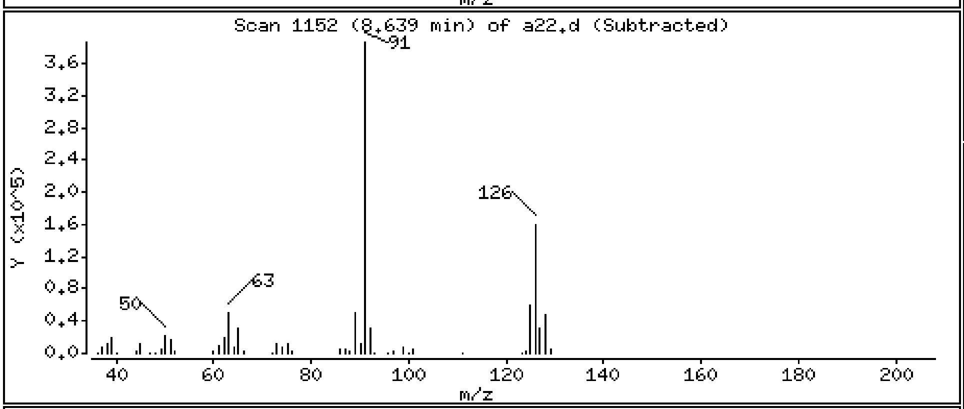
85 4-Chlorotoluene

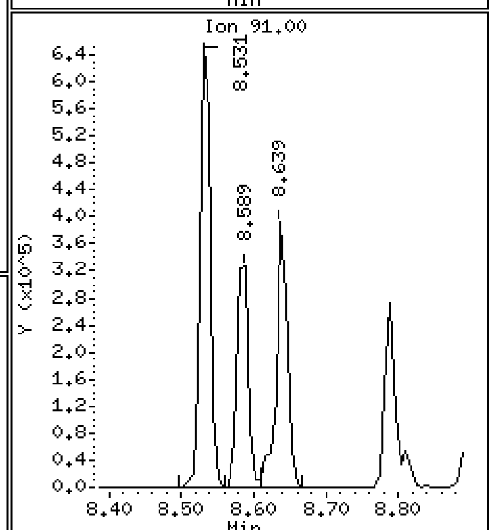
Concentration: 46.7 ppb

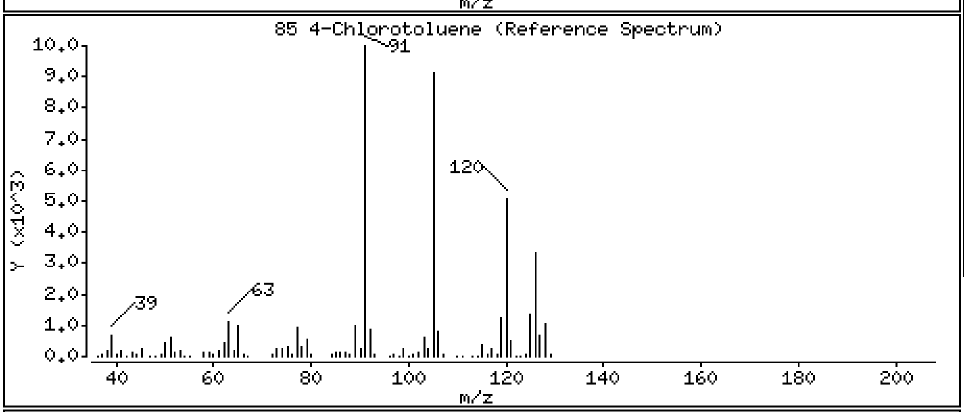
Review Code:

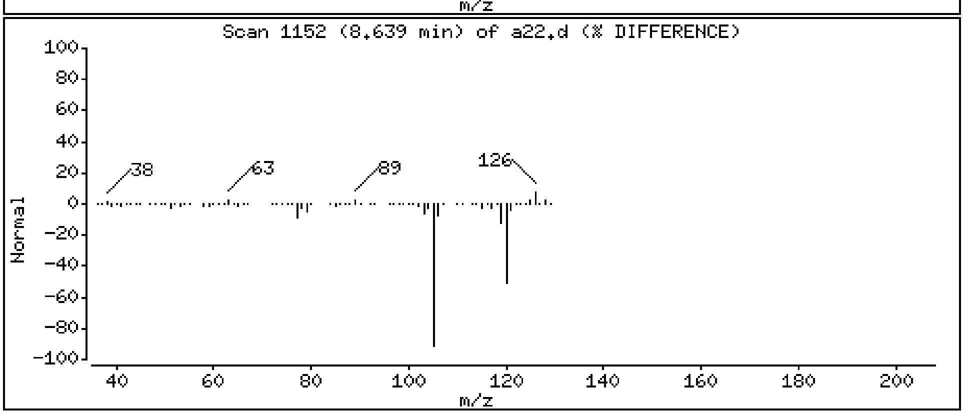












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

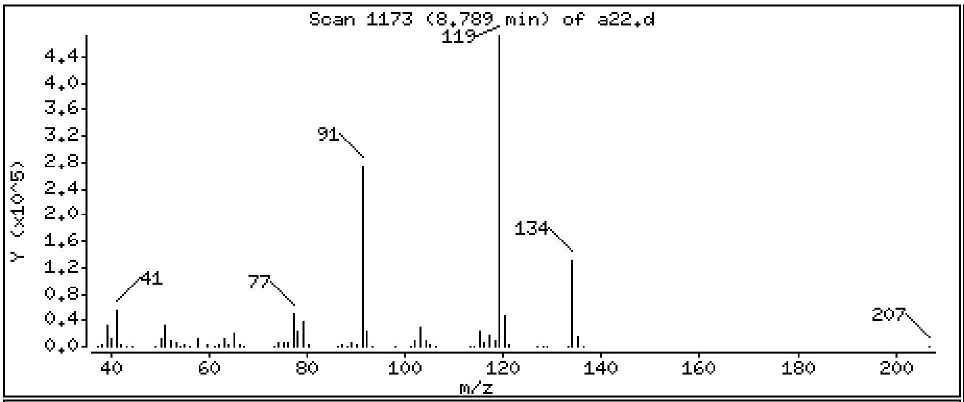
Column phase: DB-624

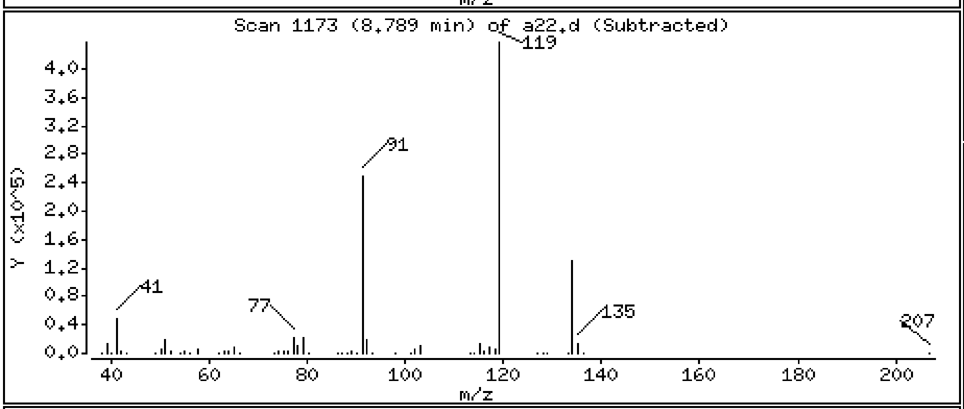
Column diameter: 0.18

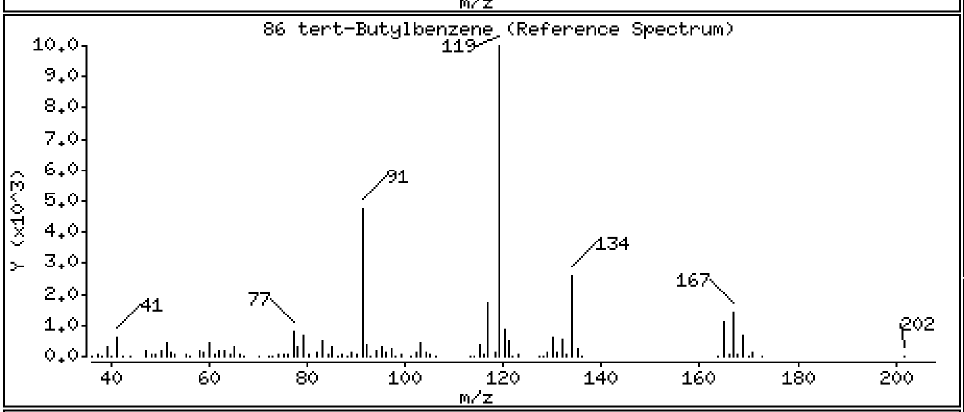
86 tert-Butylbenzene

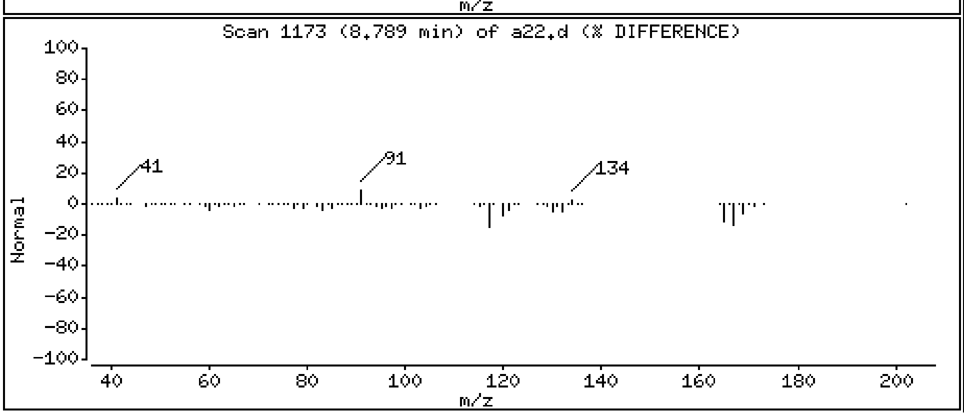
Concentration: 40.4 ppb

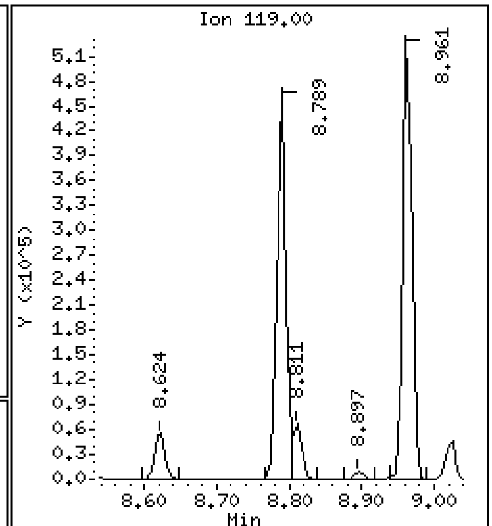
Review Code:

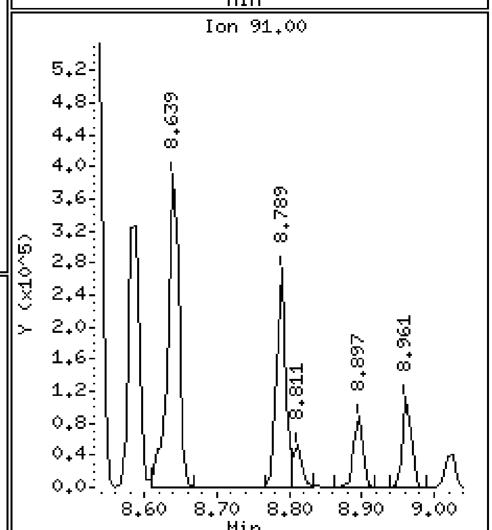


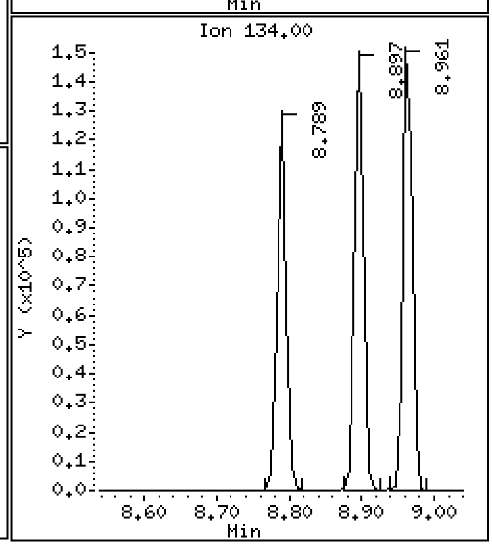












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

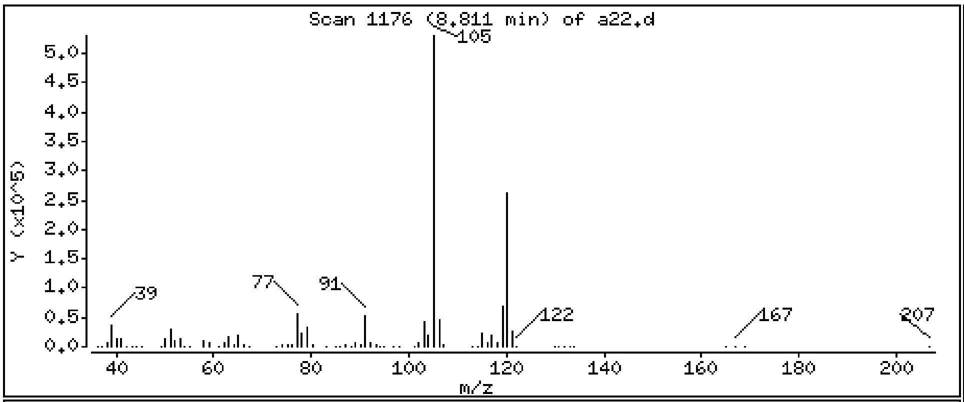
Column phase: DB-624

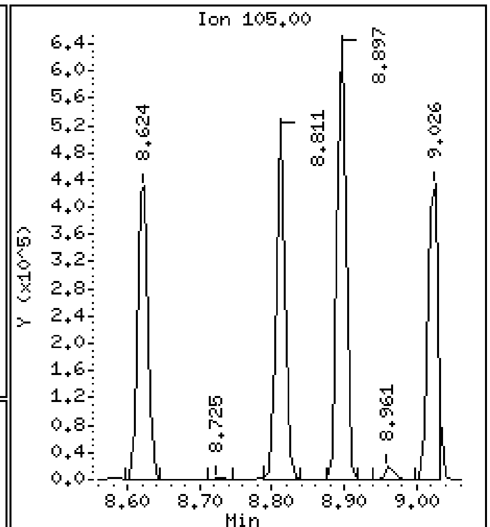
Column diameter: 0.18

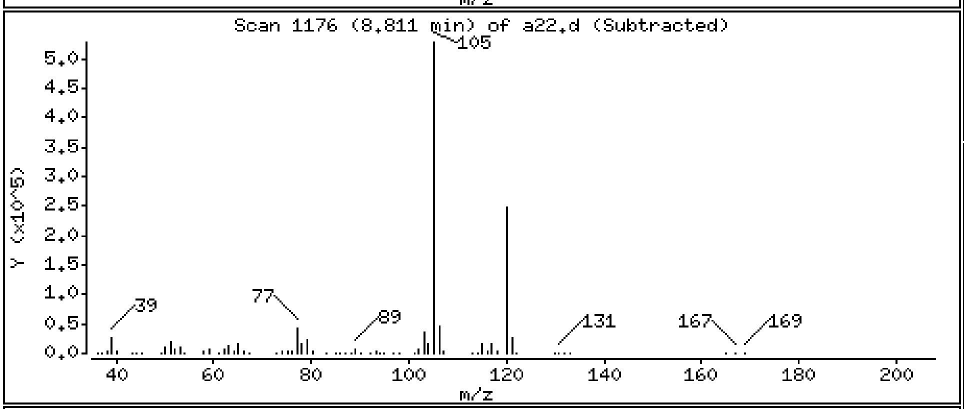
87 1,2,4-Trimethylbenzene

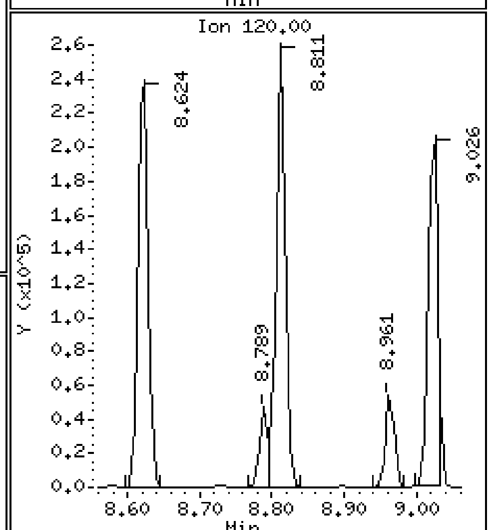
Concentration: 43.1 ppb

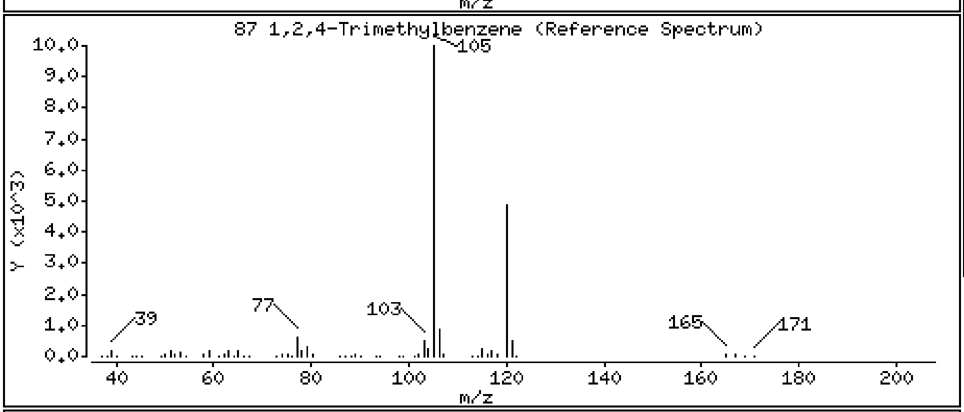
Review Code:

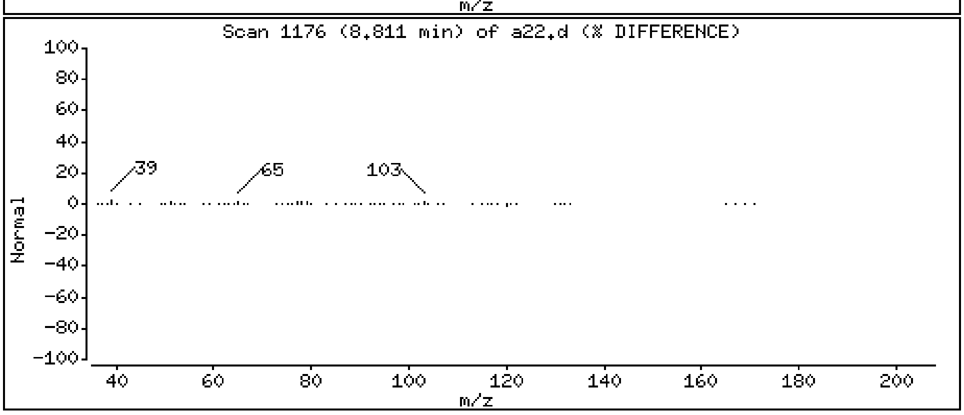












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

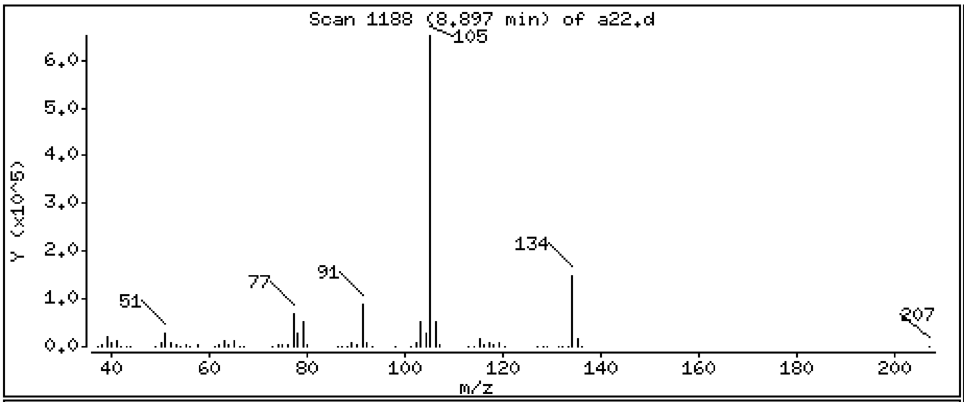
Column phase: DB-624

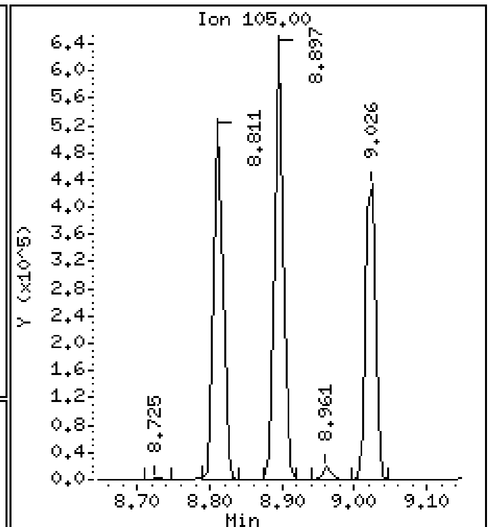
Column diameter: 0.18

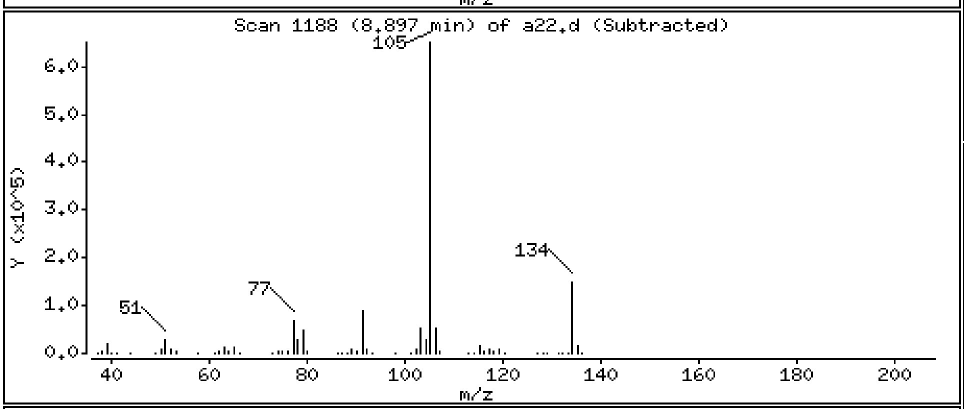
88 sec-Butylbenzene

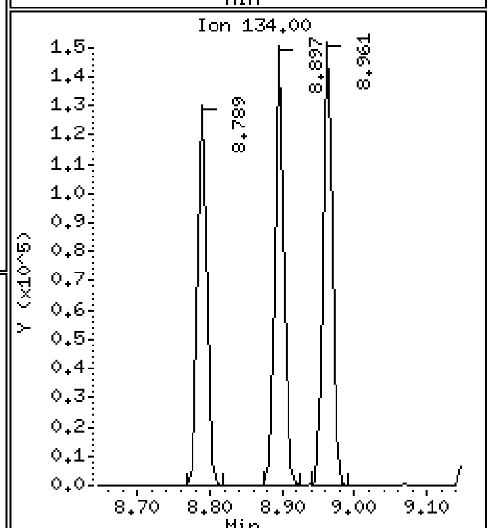
Concentration: 43.4 ppb

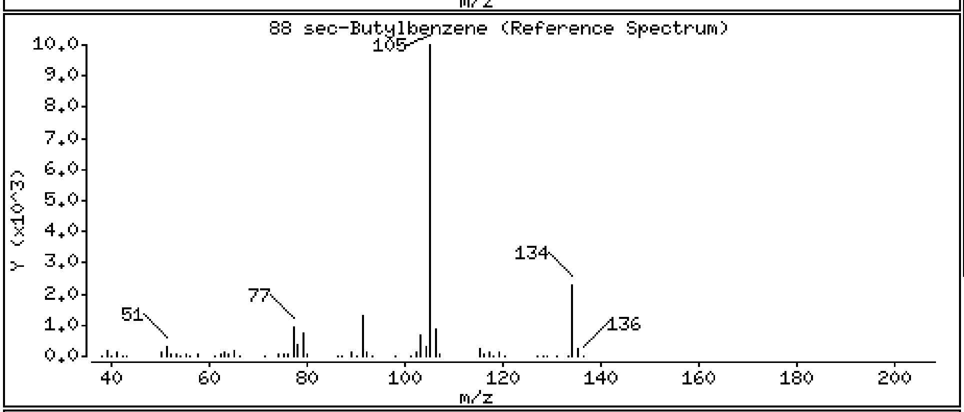
Review Code:

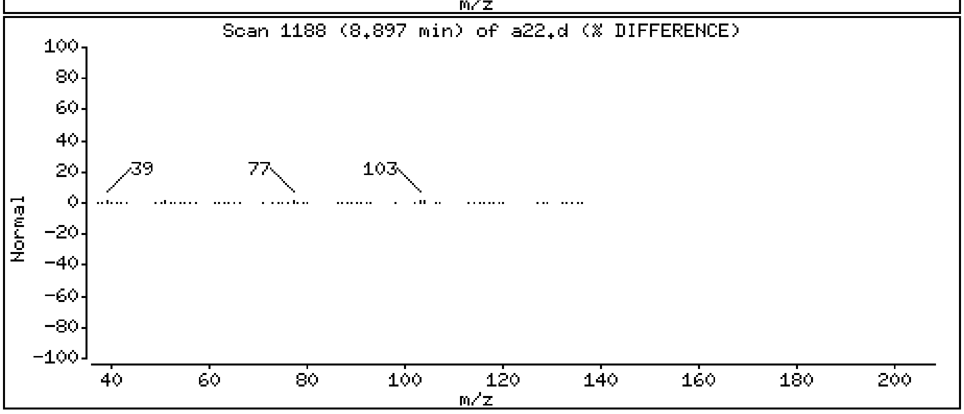












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

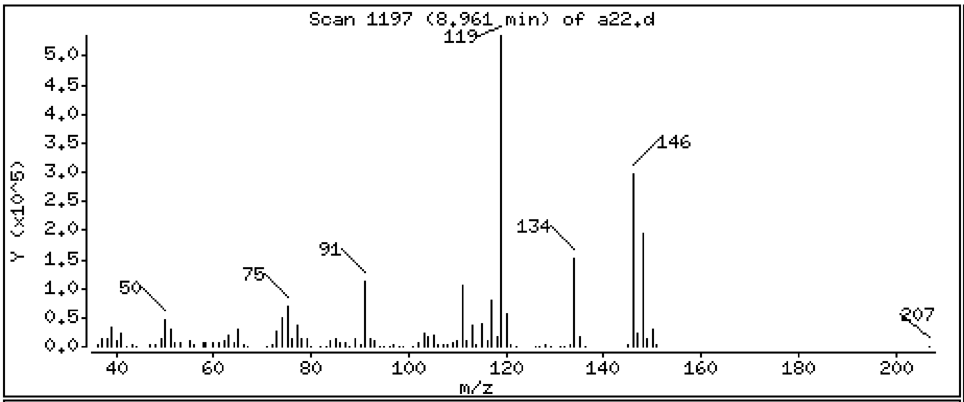
Column phase: DB-624

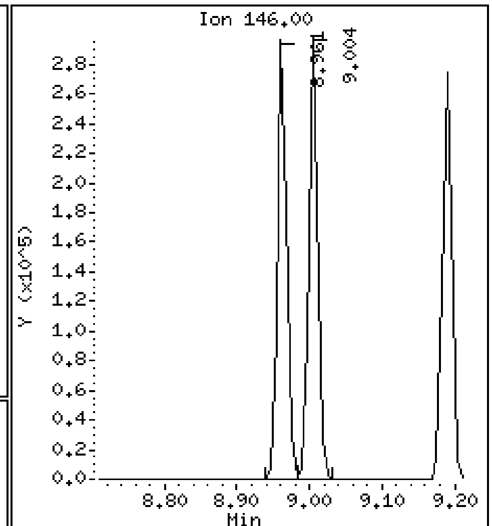
Column diameter: 0.18

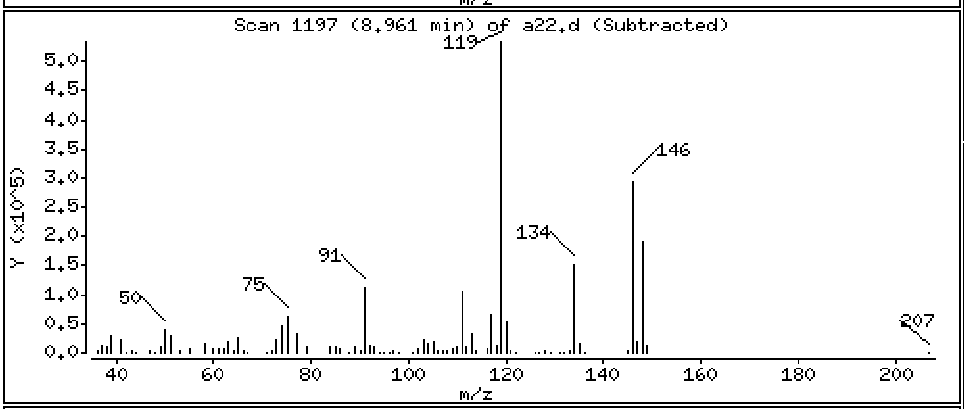
89 1,3-Dichlorobenzene

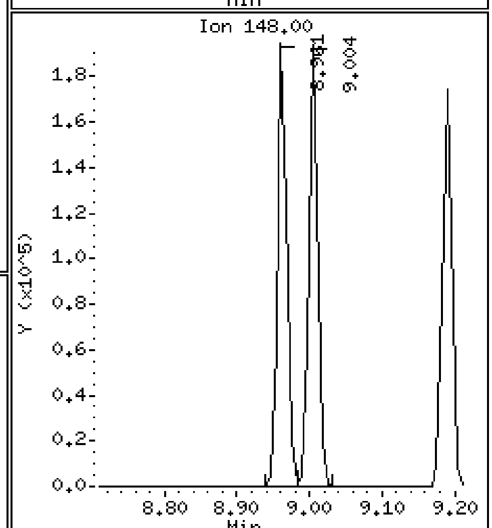
Concentration: 46.8 ppb

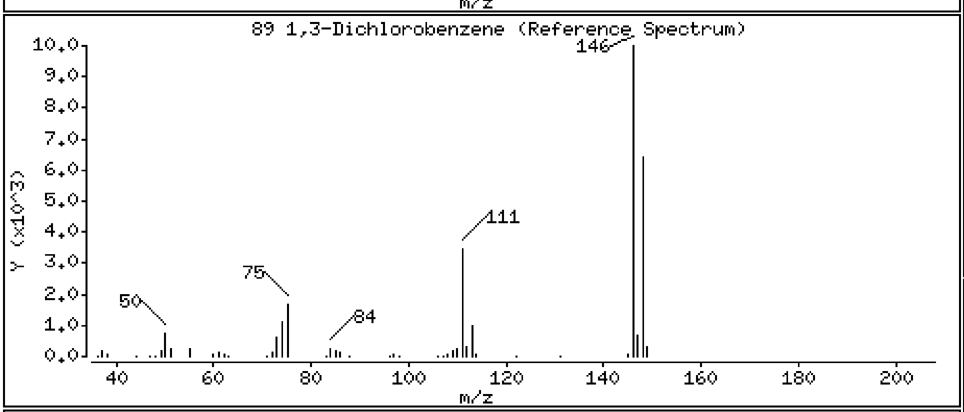
Review Code:

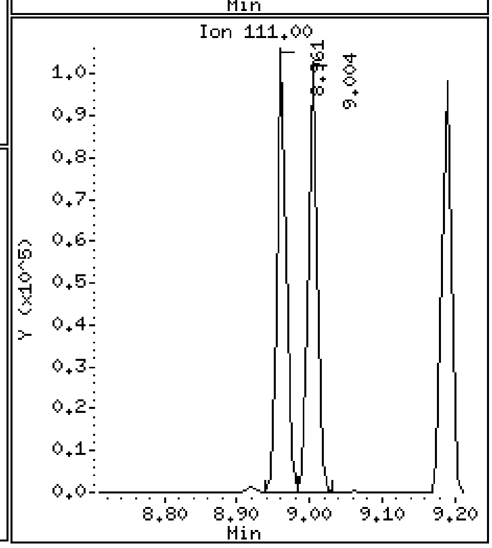


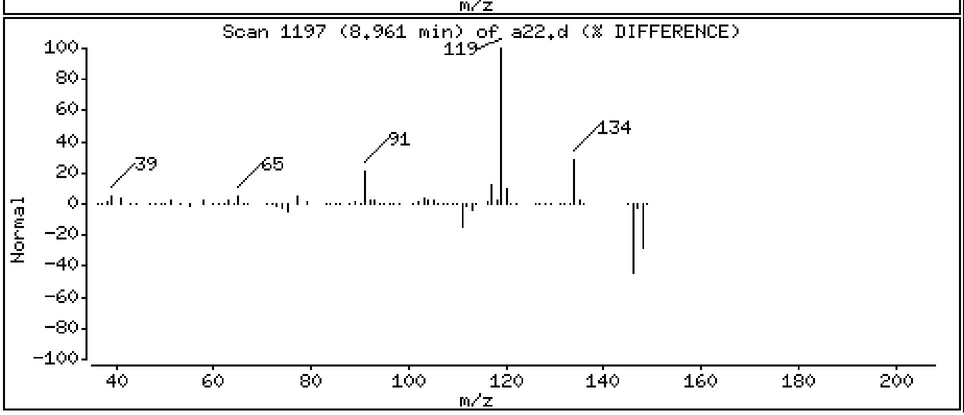












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Date : 23-JAN-2023 20:03

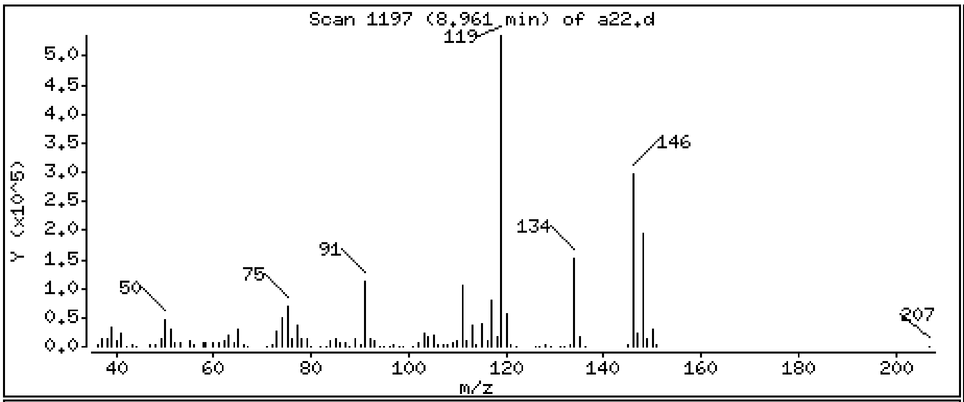
Client ID: LA2268MSD Instrument: 50mvda.i

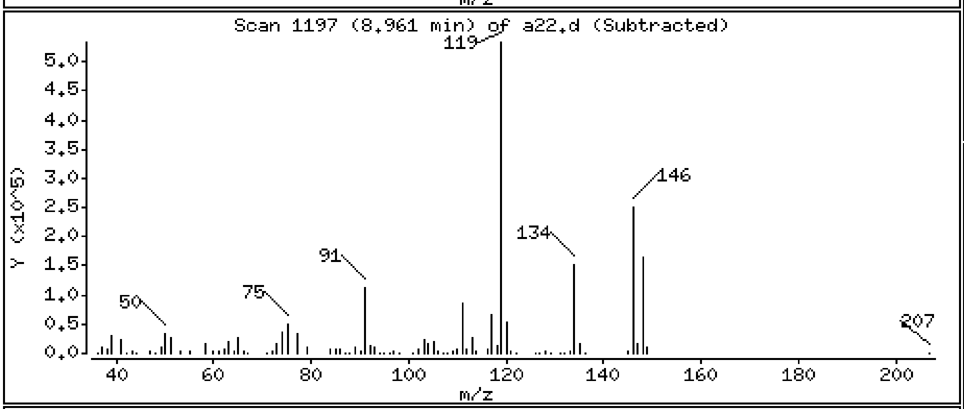
Sample Info: 3287470,336256:5

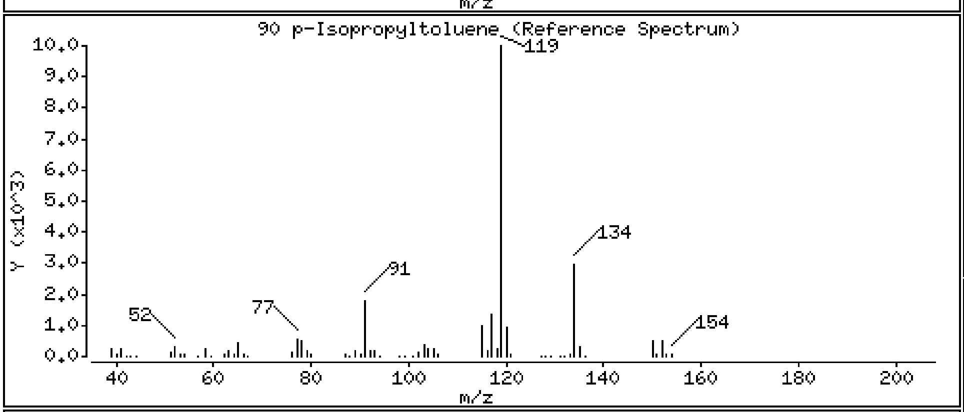
Purge Volume: 5.0 Operator: tkg

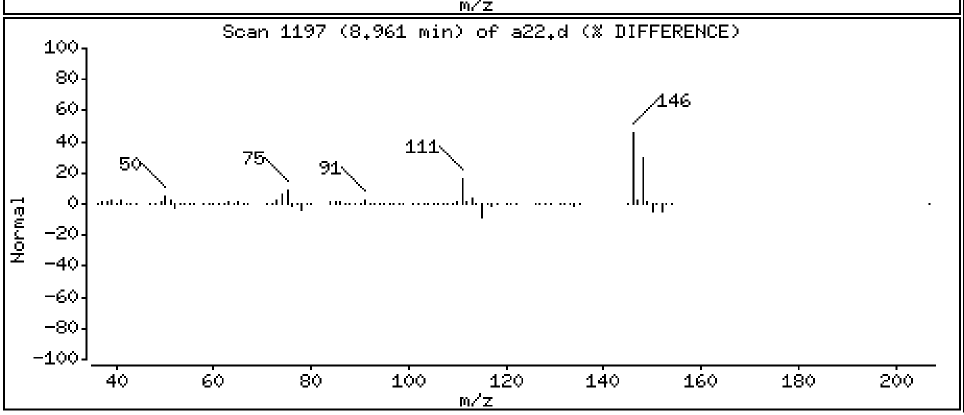
Column phase: DB-624 Column diameter: 0.18

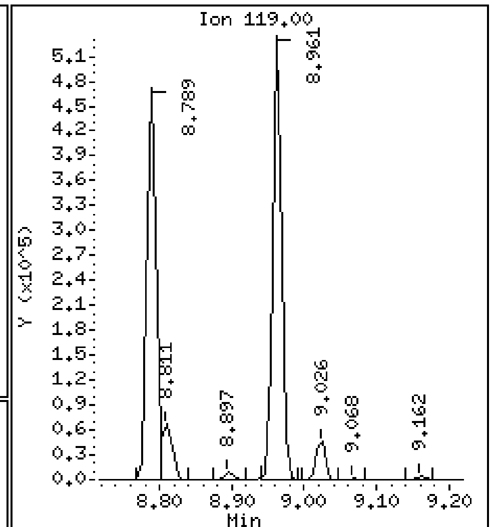
90 p-Isopropyltoluene Concentration: 44.2 ppb Review Code:

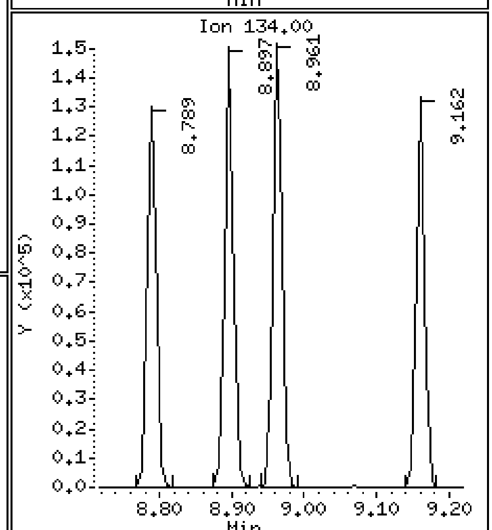


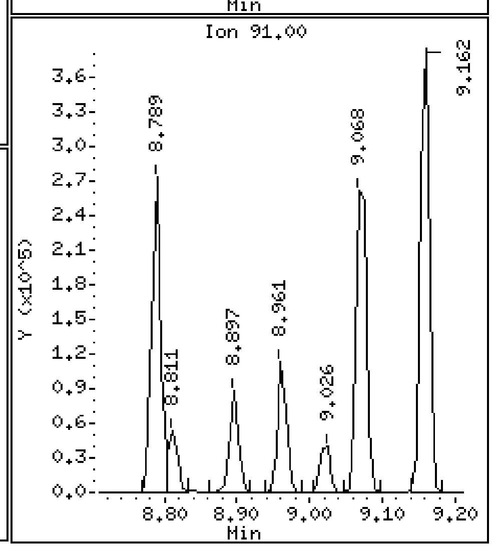












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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

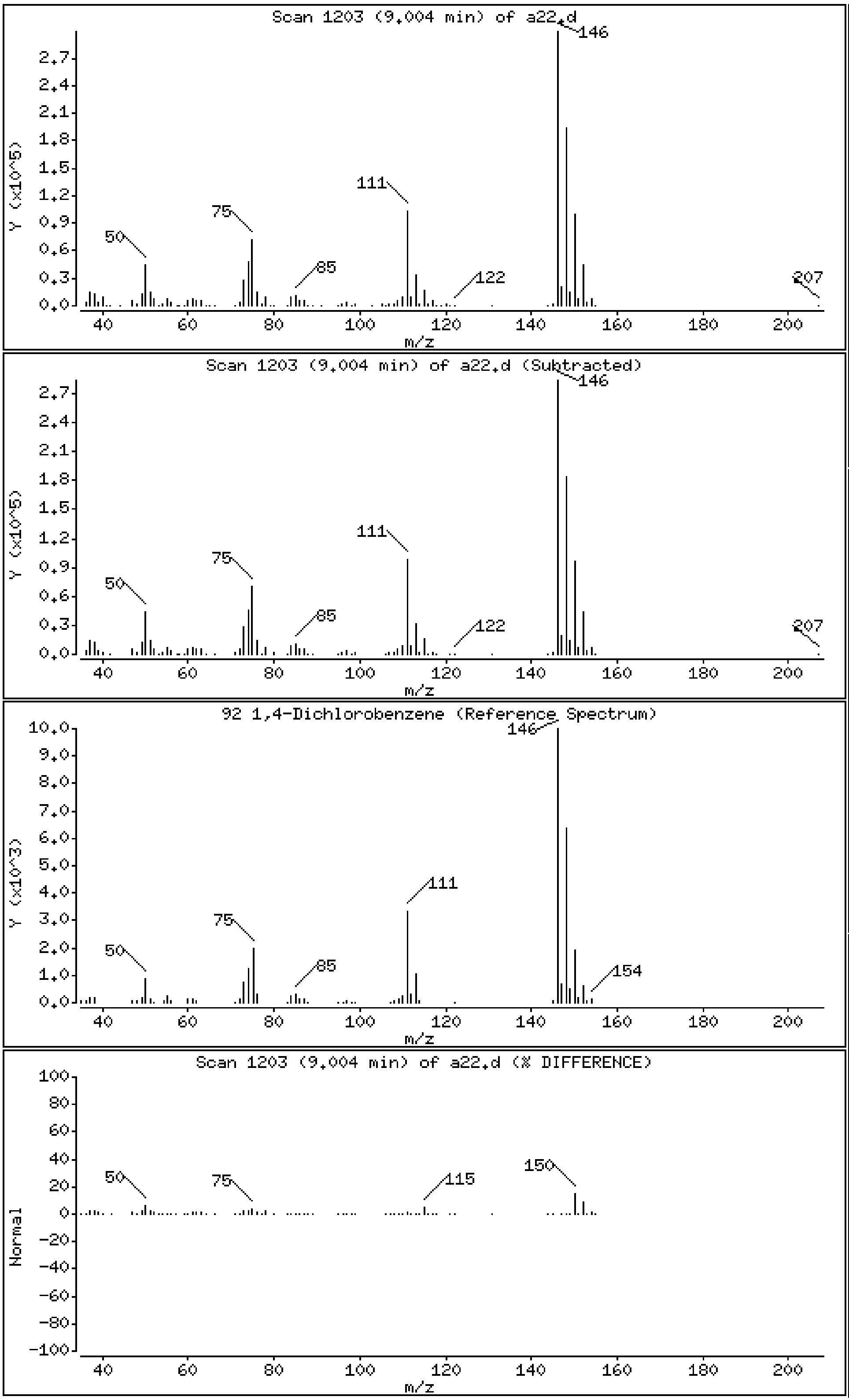
Column phase: DB-624

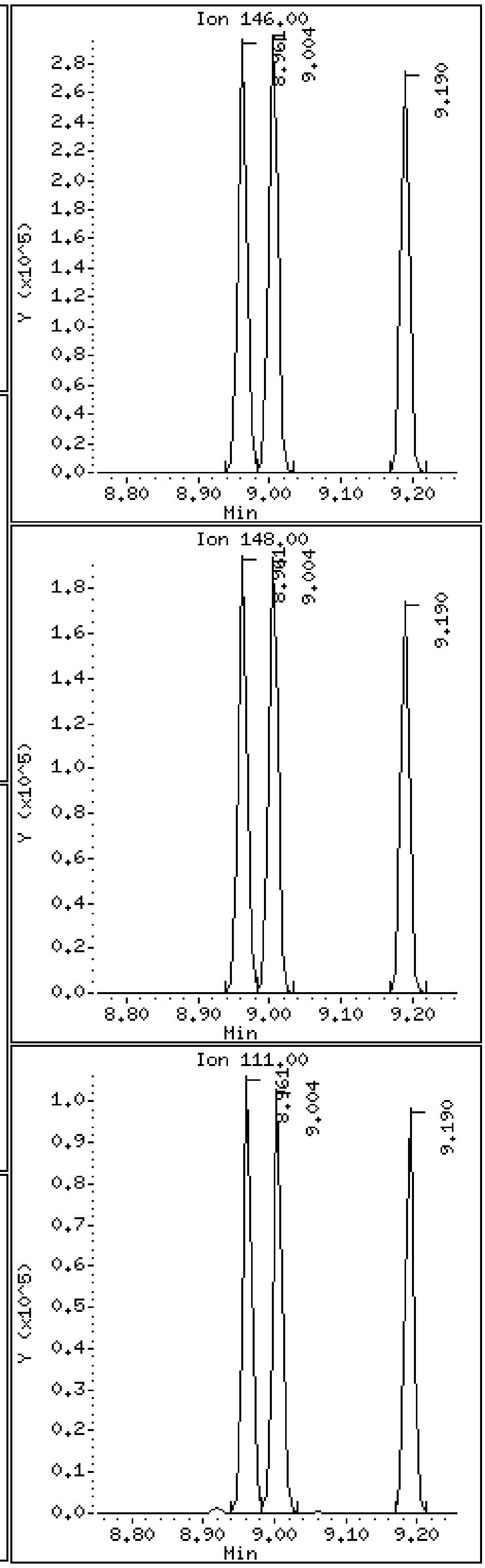
Column diameter: 0.18

92 1,4-Dichlorobenzene

Concentration: 46.6 ppb

Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

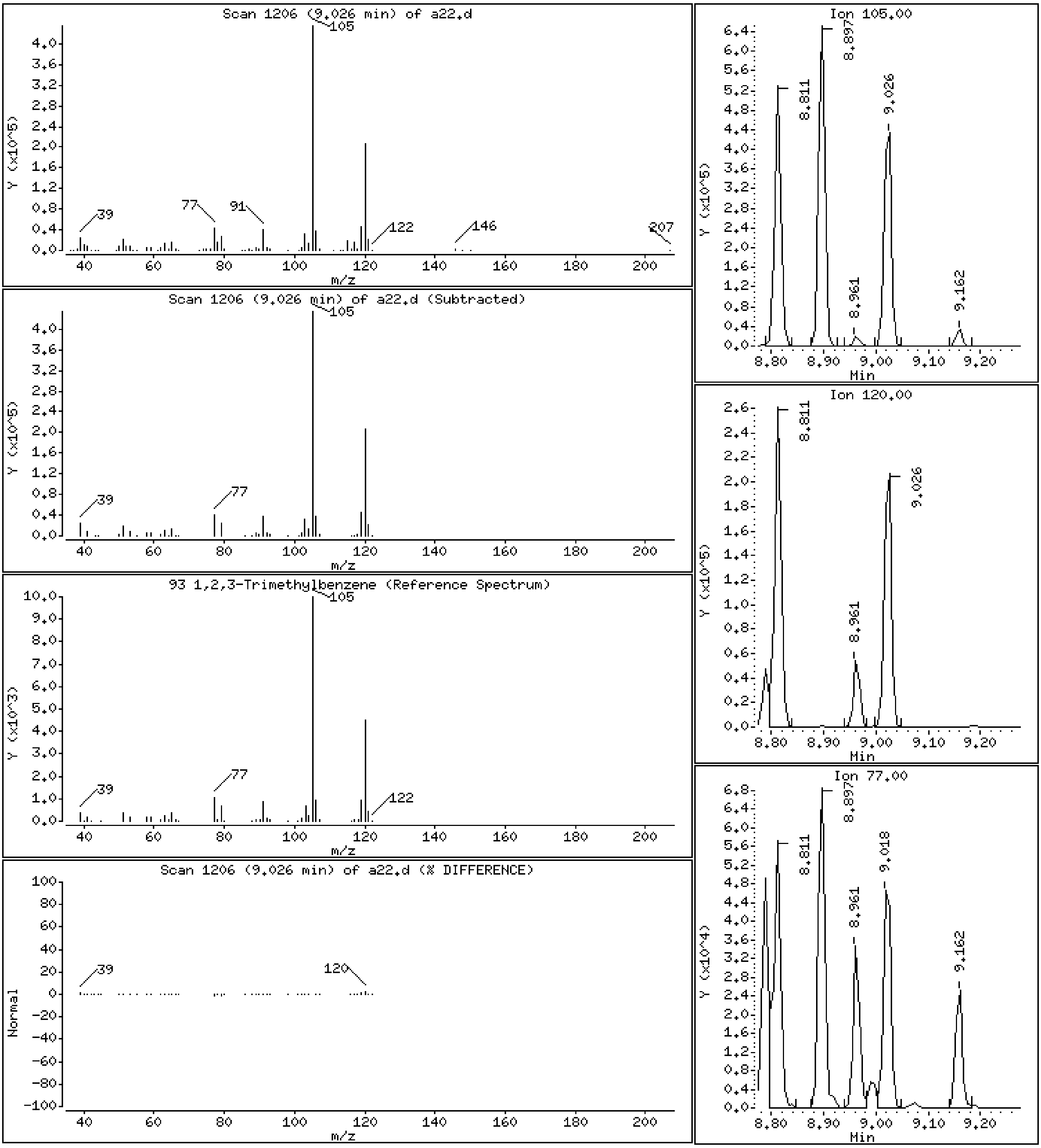
Column phase: DB-624

Column diameter: 0.18

93 1,2,3-Trimethylbenzene

Concentration: 44.2 ppb

Review Code:



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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

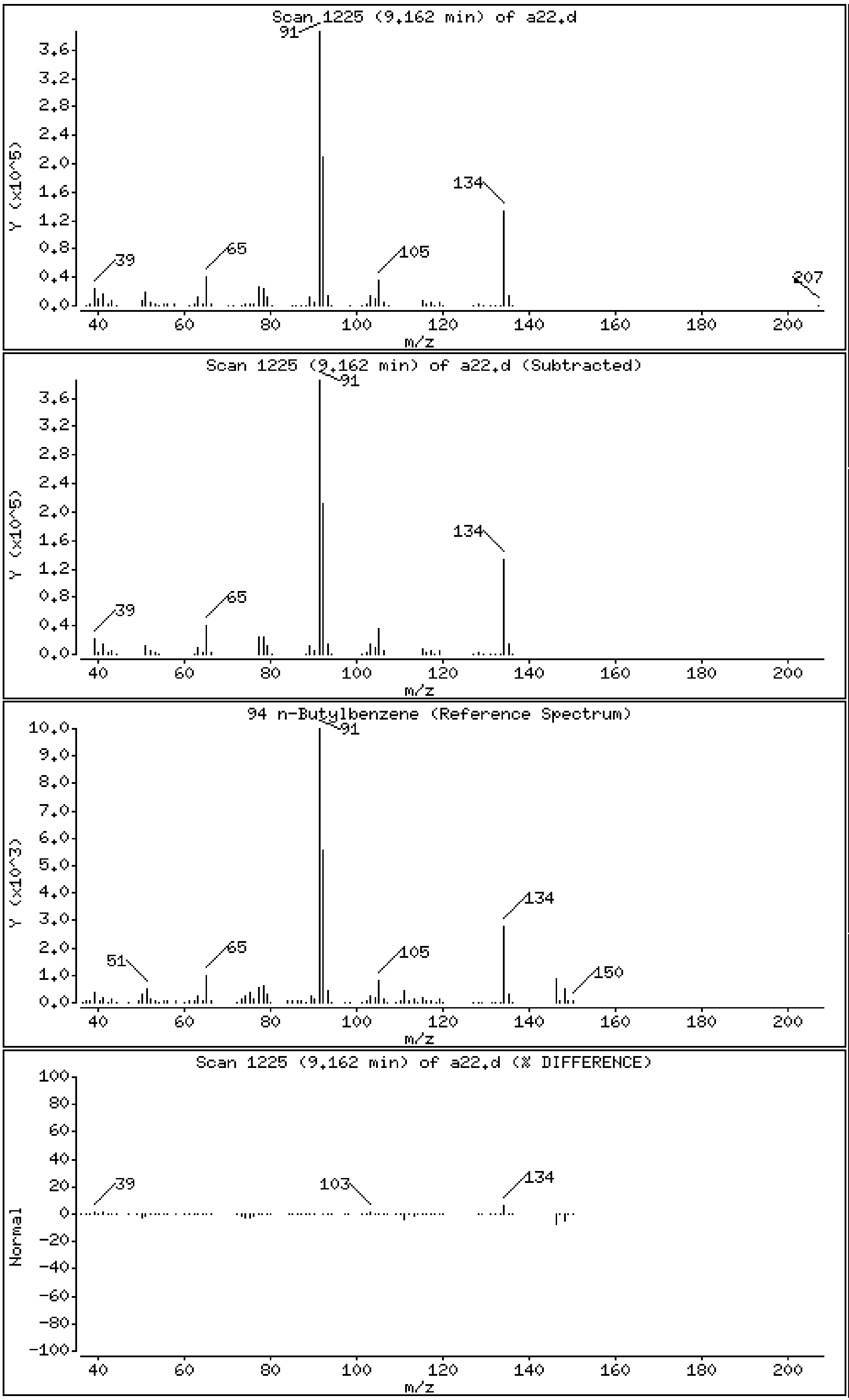
Column phase: DB-624

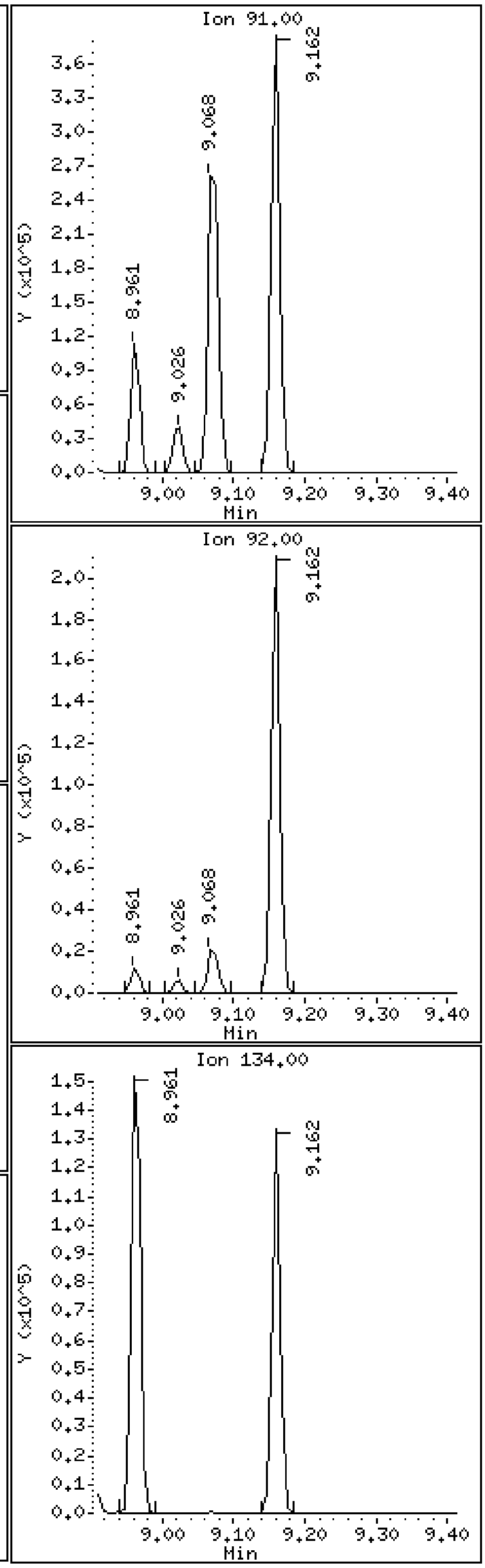
Column diameter: 0.18

94 n-Butylbenzene

Concentration: 38.7 ppb

Review Code:





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Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

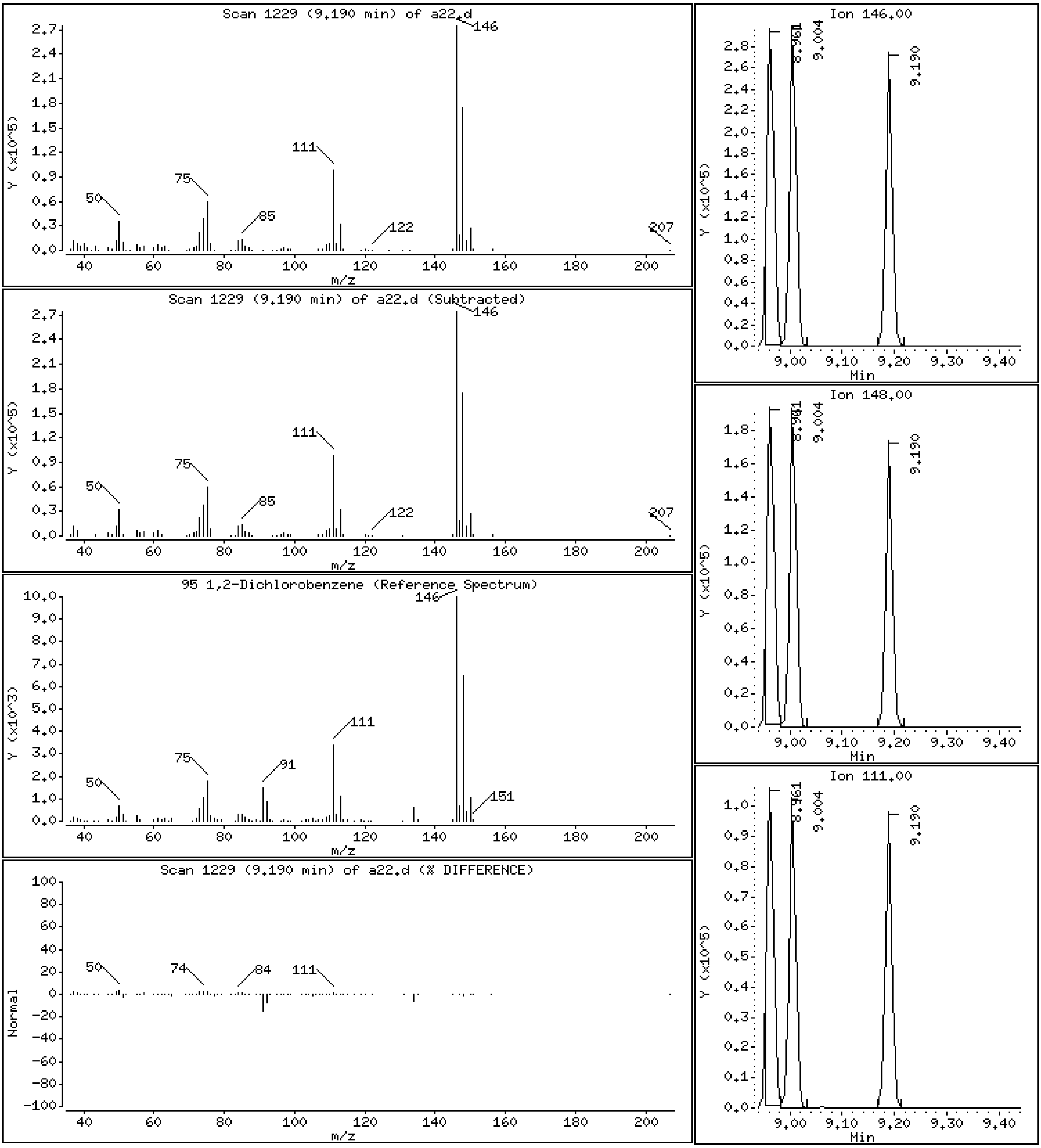
Column phase: DB-624

Column diameter: 0.18

95 1,2-Dichlorobenzene

Concentration: 49.3 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

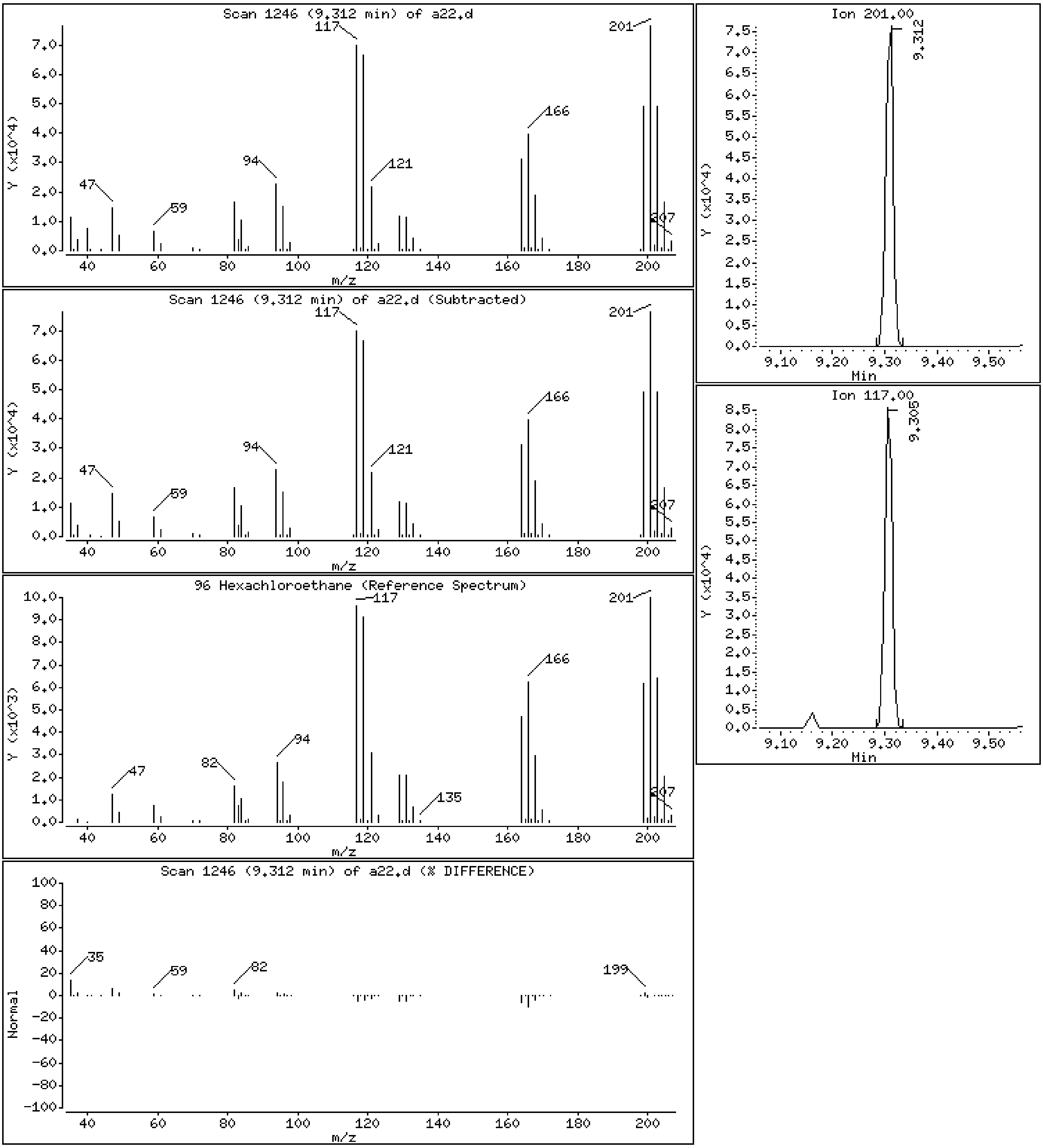
Column phase: DB-624

Column diameter: 0.18

96 Hexachloroethane

Concentration: 56.0 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

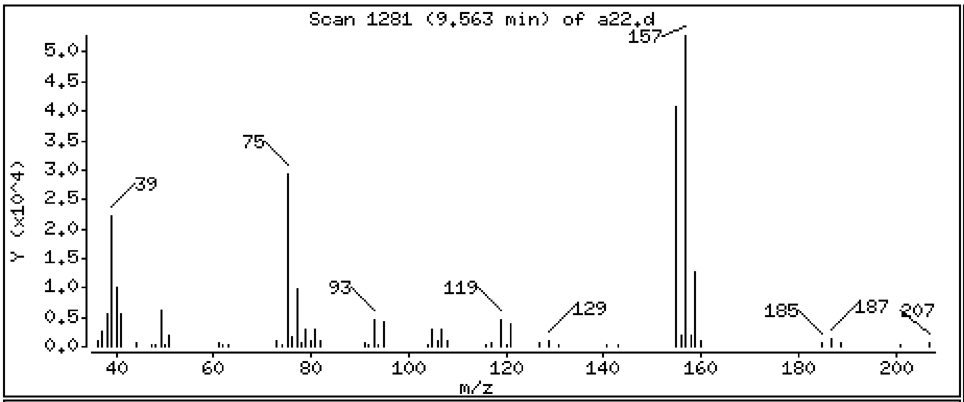
Column phase: DB-624

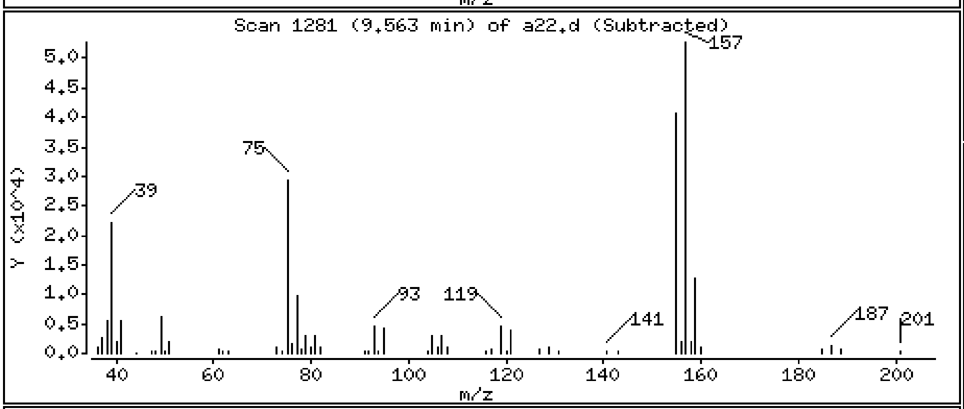
Column diameter: 0.18

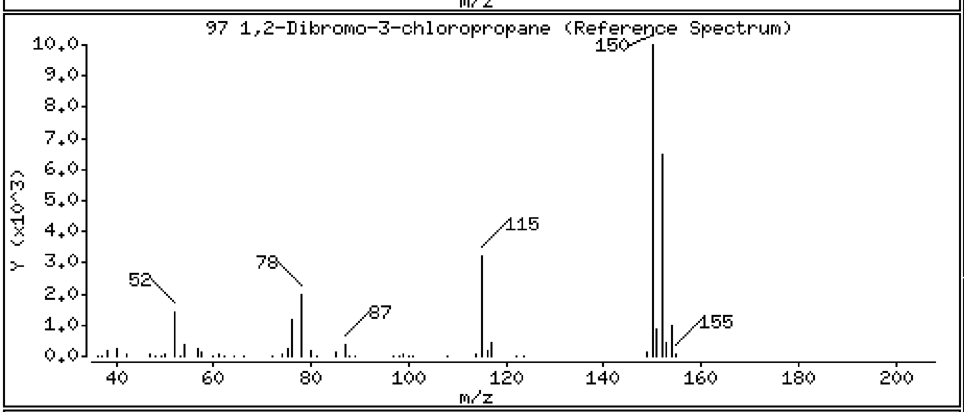
97 1,2-Dibromo-3-chloropropane

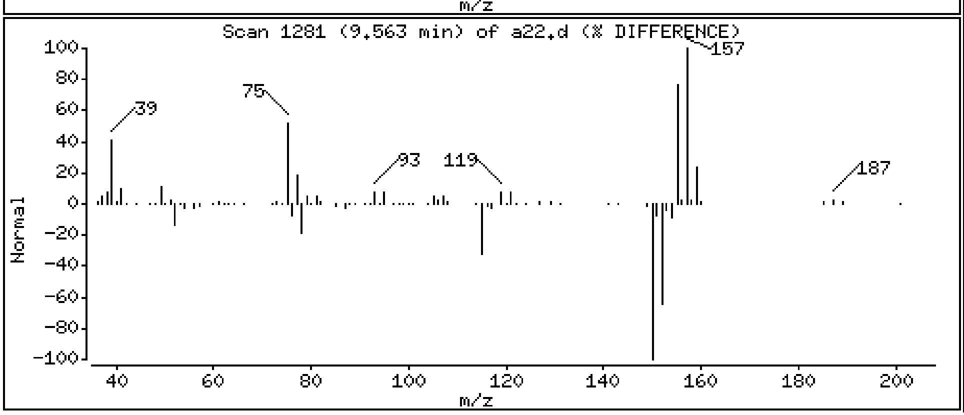
Concentration: 54.0 ppb

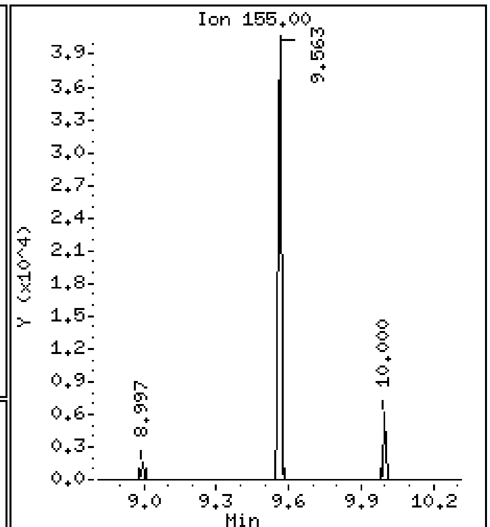
Review Code:

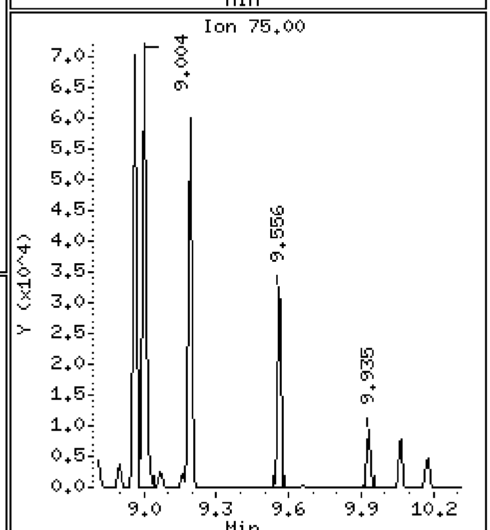


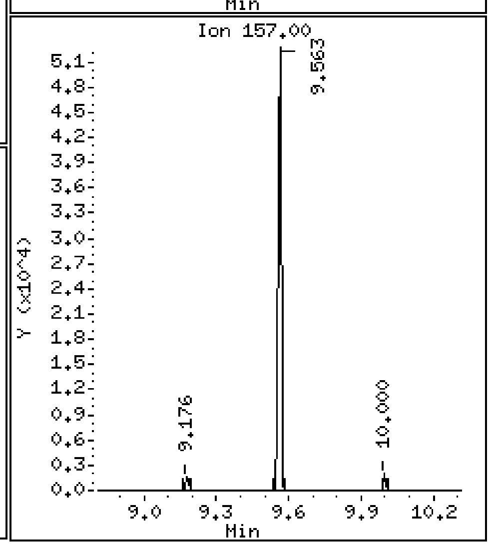












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

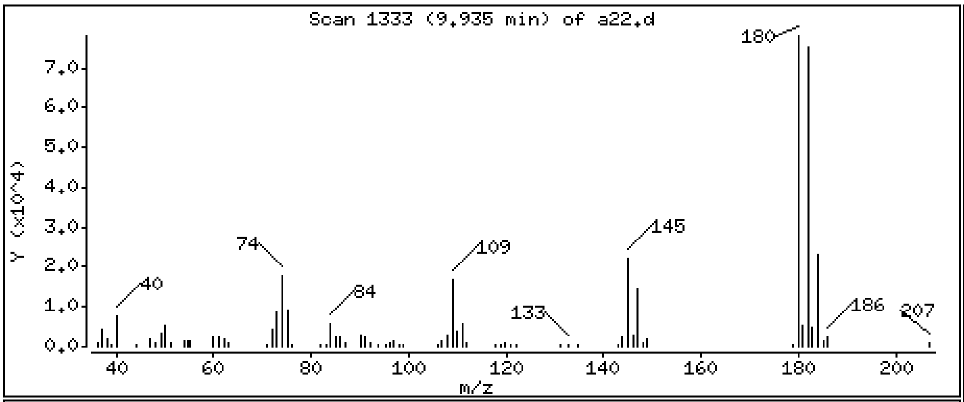
Column phase: DB-624

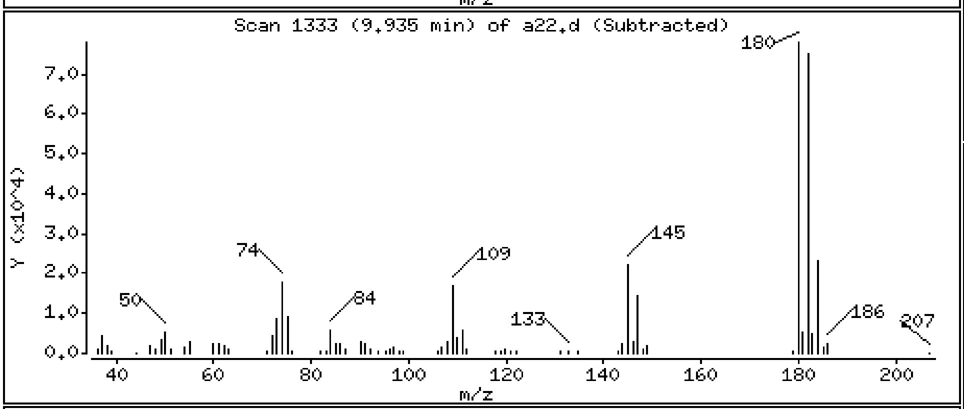
Column diameter: 0.18

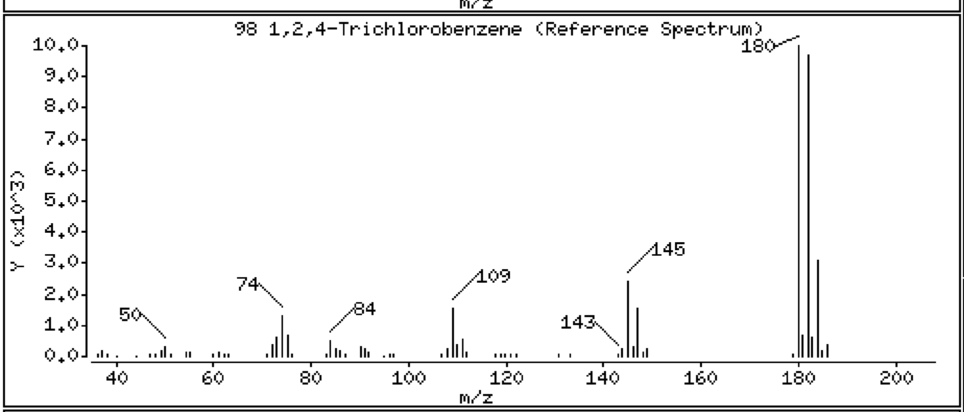
98 1,2,4-Trichlorobenzene

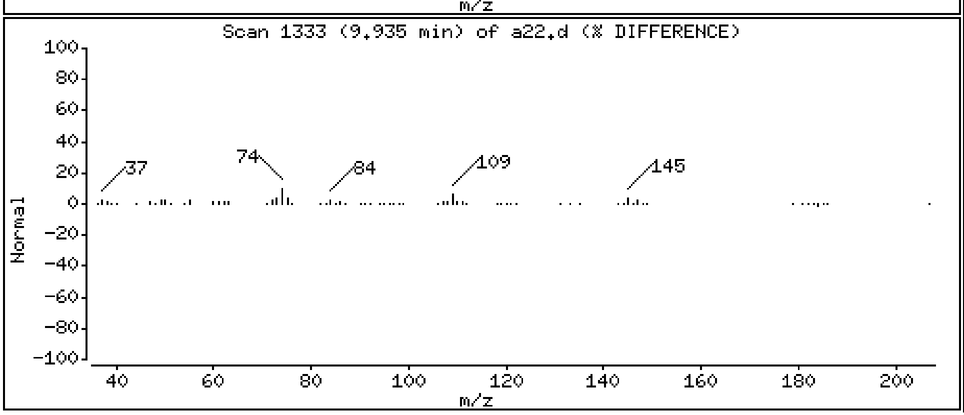
Concentration: 45.3 ppb

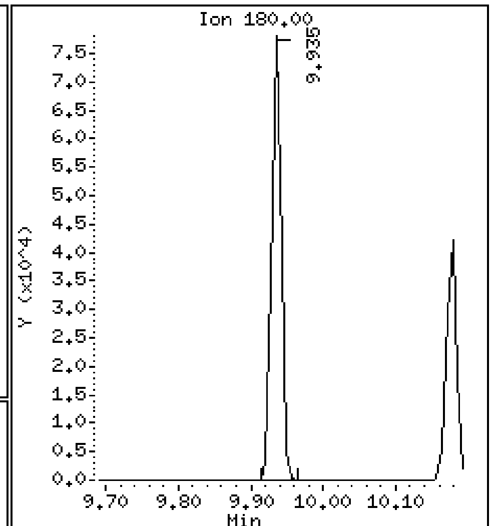
Review Code:

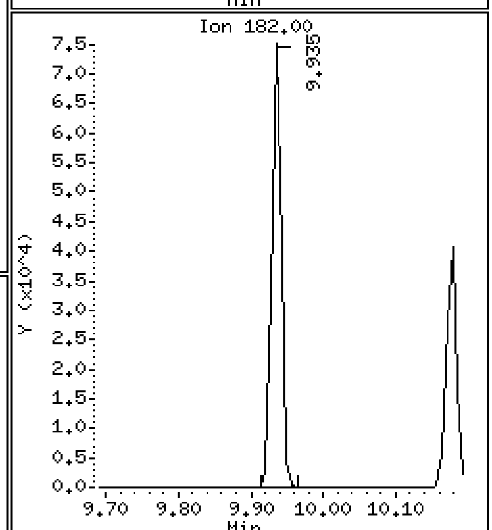


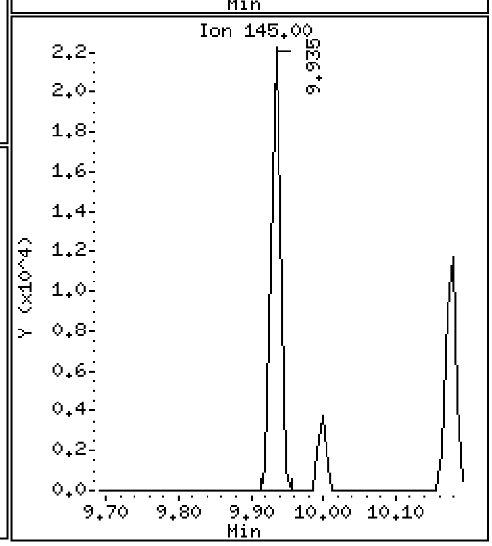












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

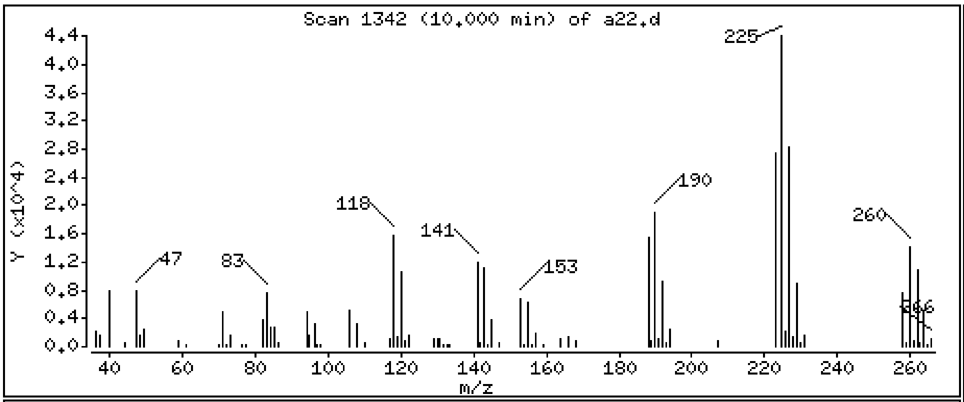
Column phase: DB-624

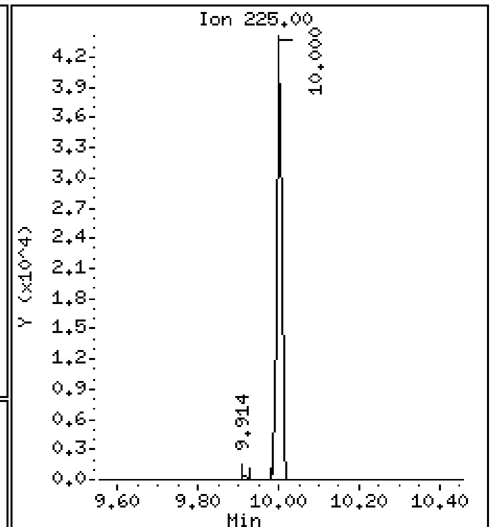
Column diameter: 0.18

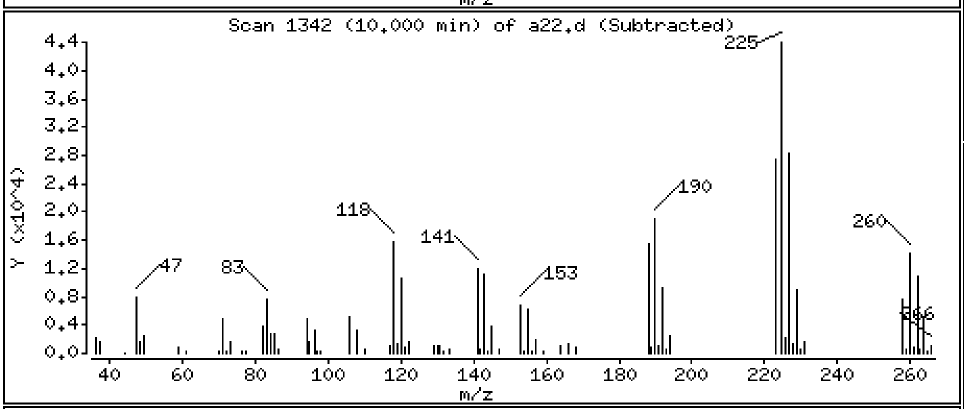
99 Hexachlorobutadiene

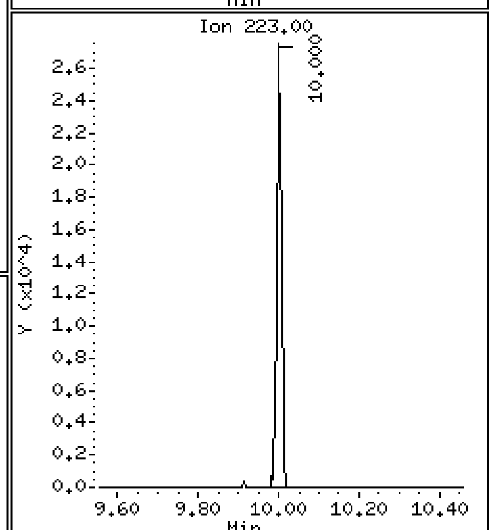
Concentration: 51.2 ppb

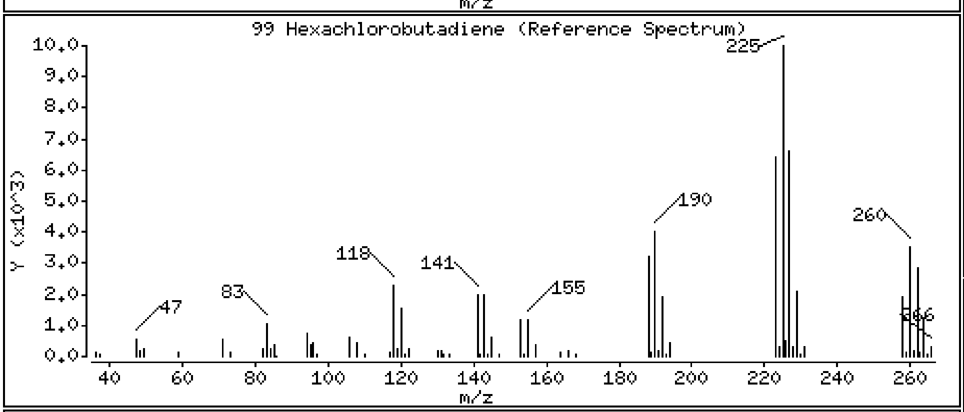
Review Code:

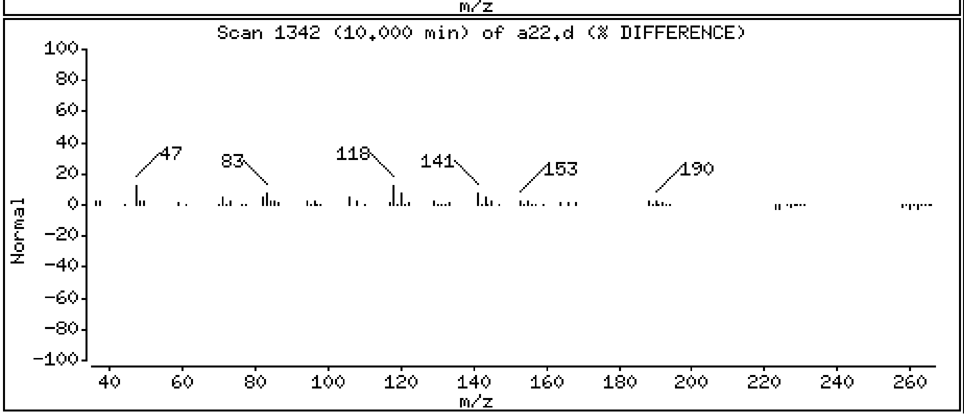


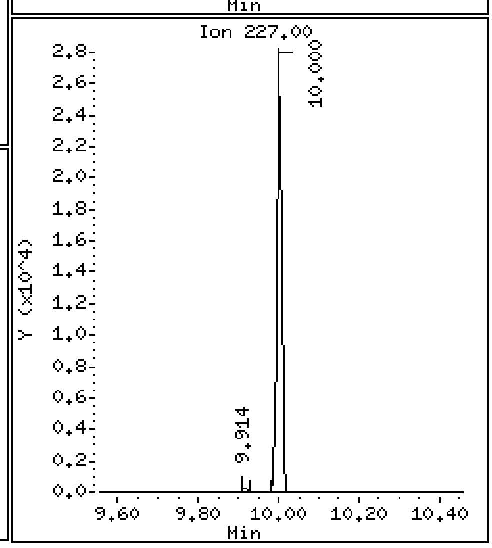












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

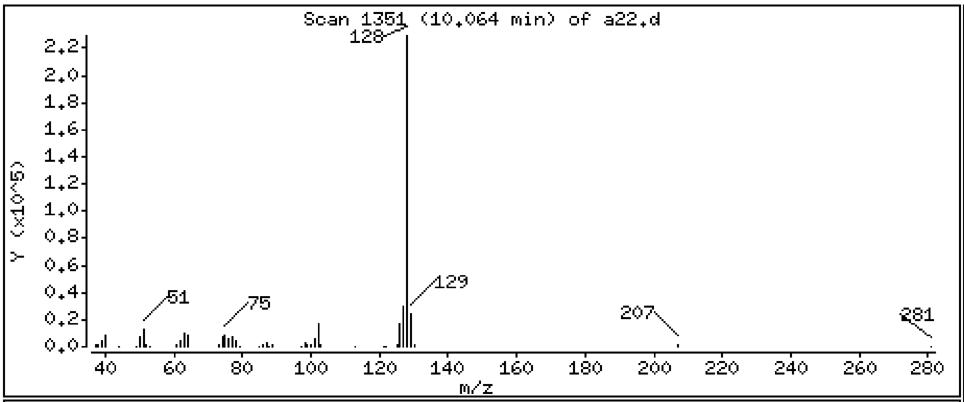
Column phase: DB-624

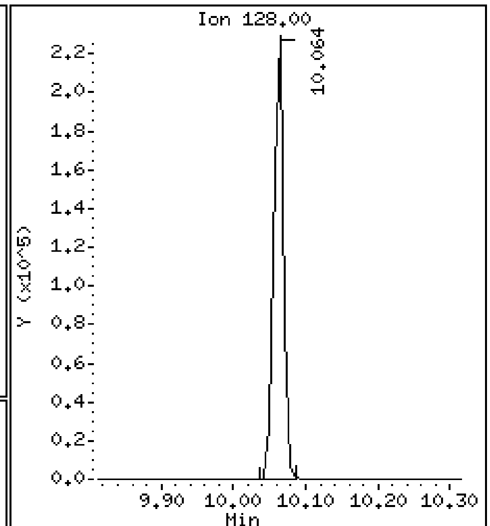
Column diameter: 0.18

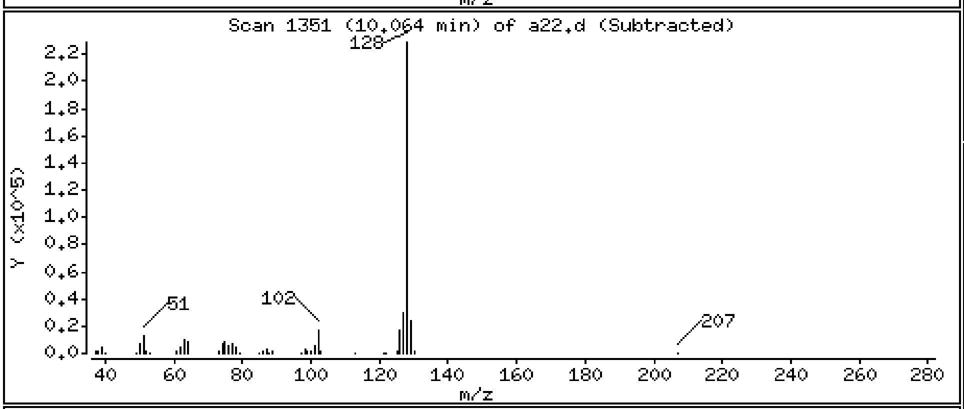
100 Naphthalene

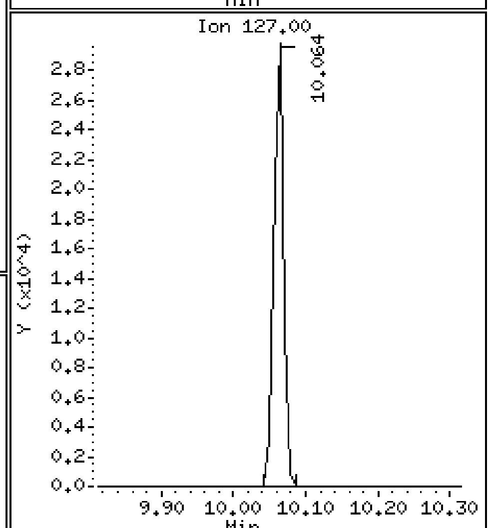
Concentration: 46.4 ppb

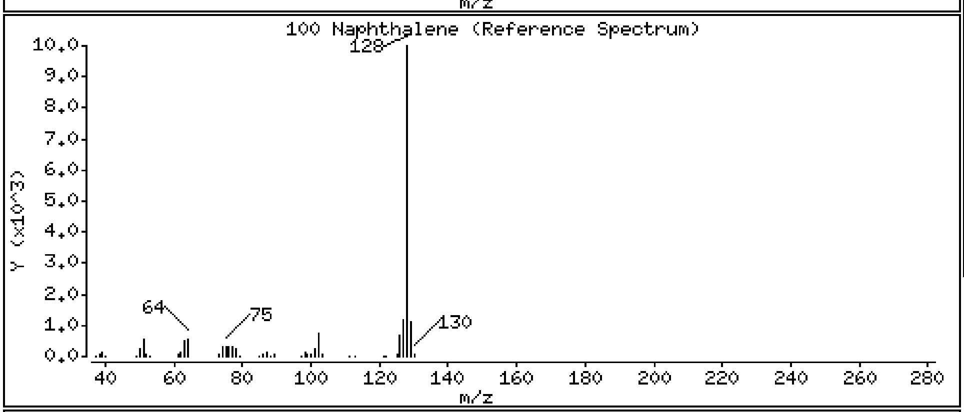
Review Code:

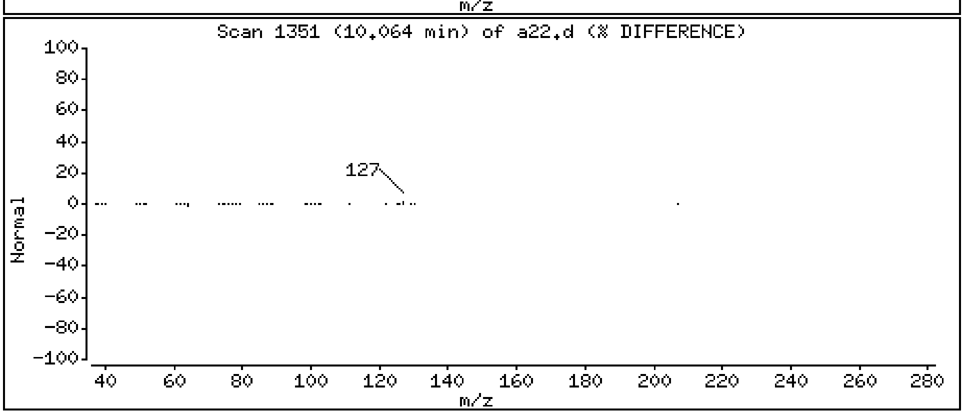












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

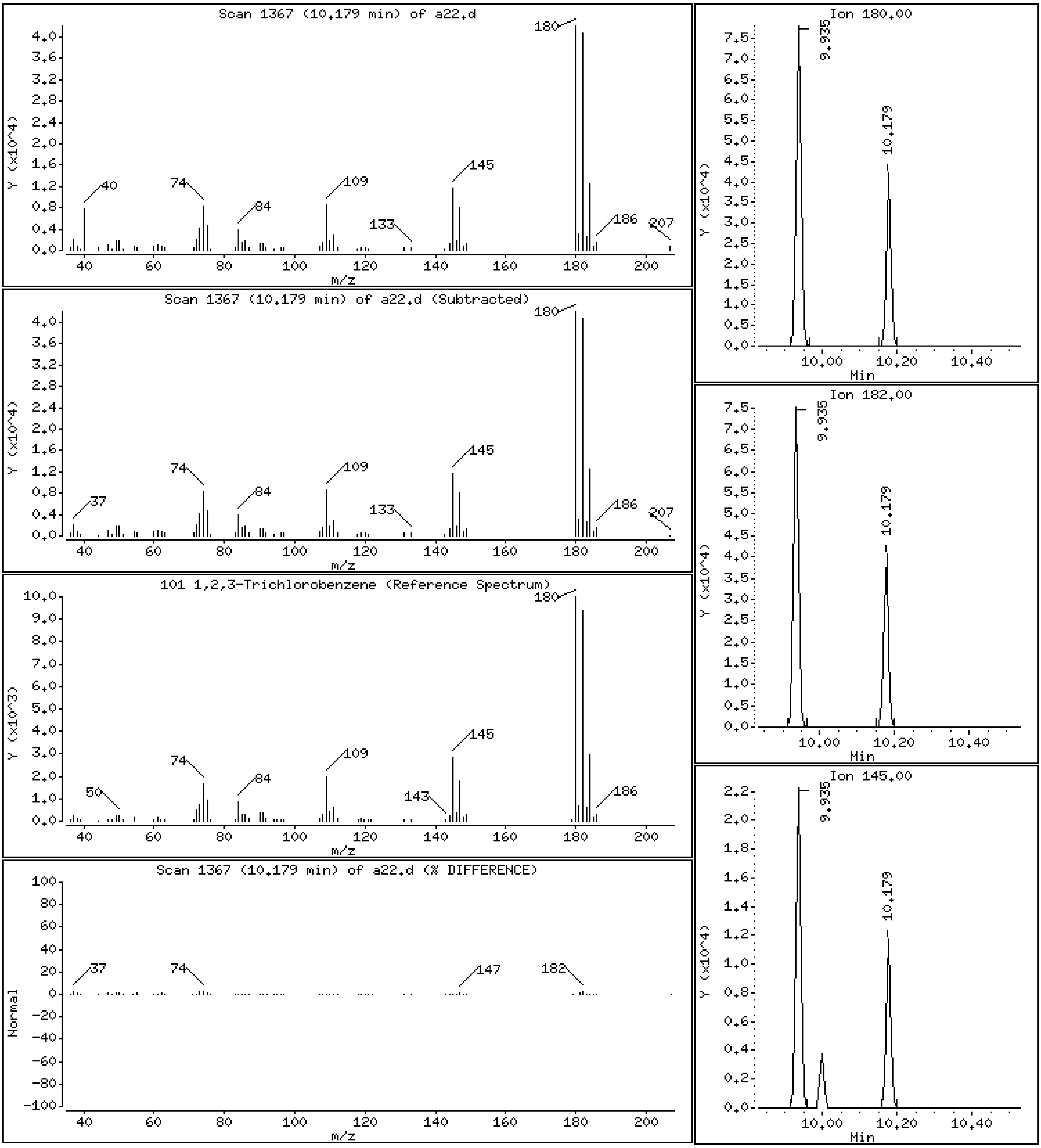
Column phase: DB-624

Column diameter: 0.18

101 1,2,3-Trichlorobenzene

Concentration: 48.9 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

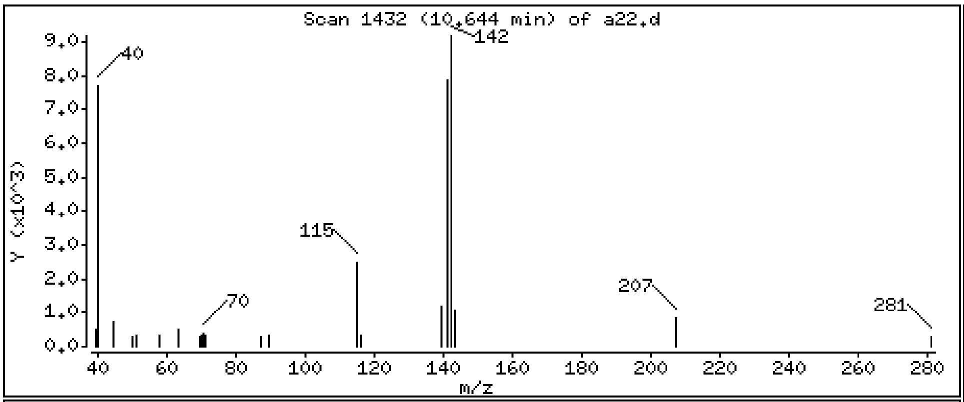
Column phase: DB-624

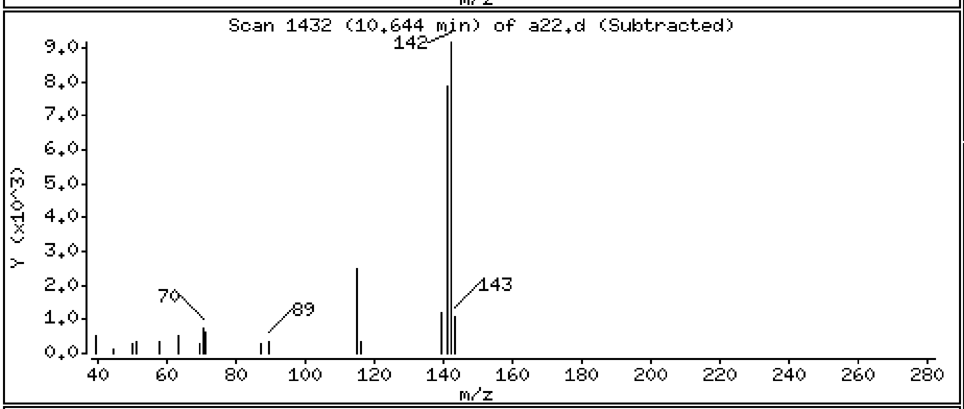
Column diameter: 0.18

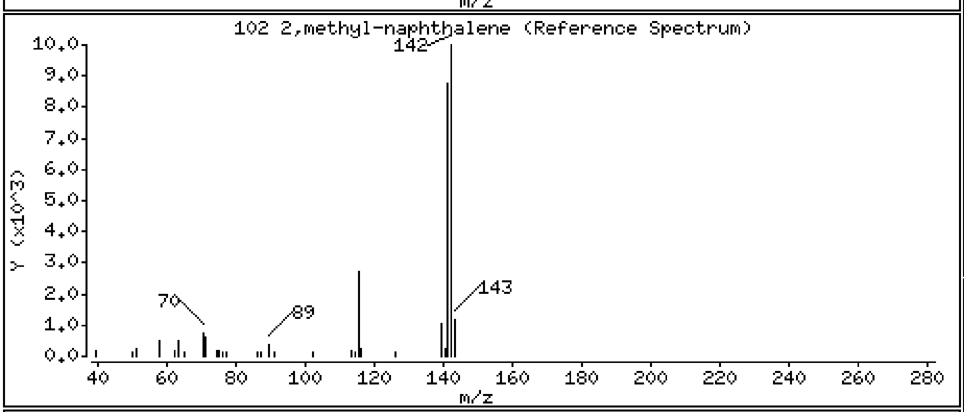
102 2,methyl-naphthalene

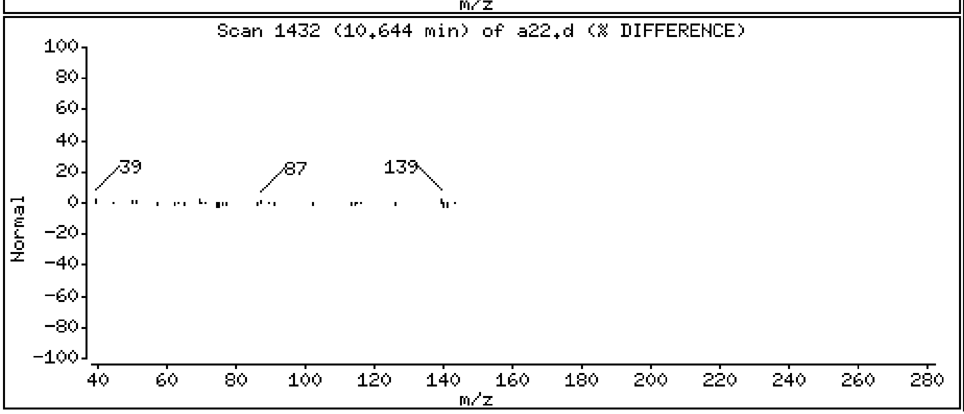
Concentration: 42.8 ppb

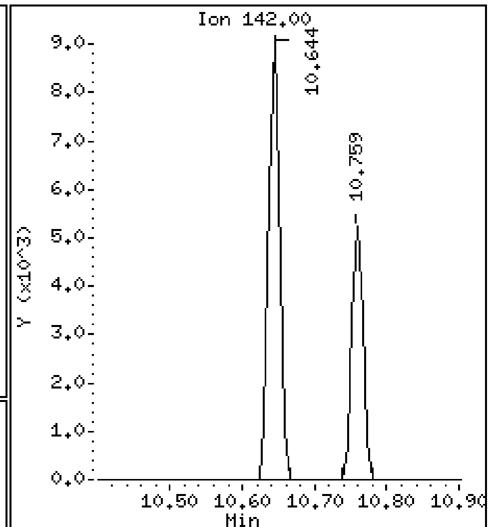
Review Code:

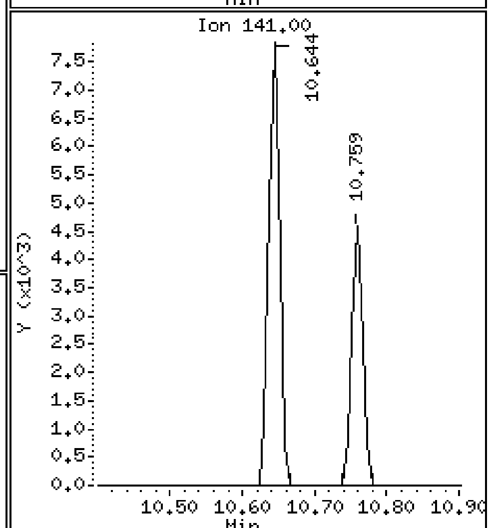


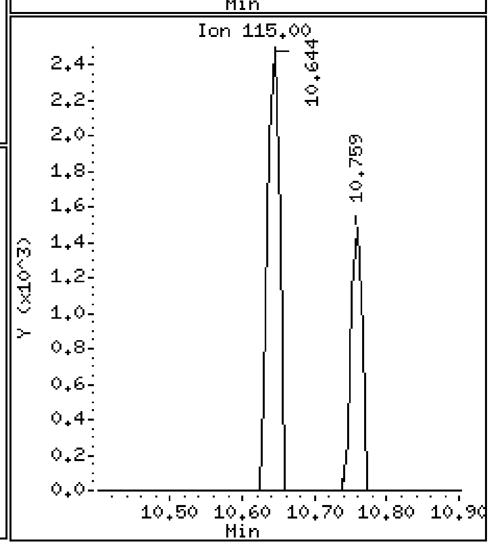












Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

Client ID: LA2268MSD

Instrument: 50mvda.i

Sample Info: 3287470,336256:5

Purge Volume: 5.0

Operator: tkg

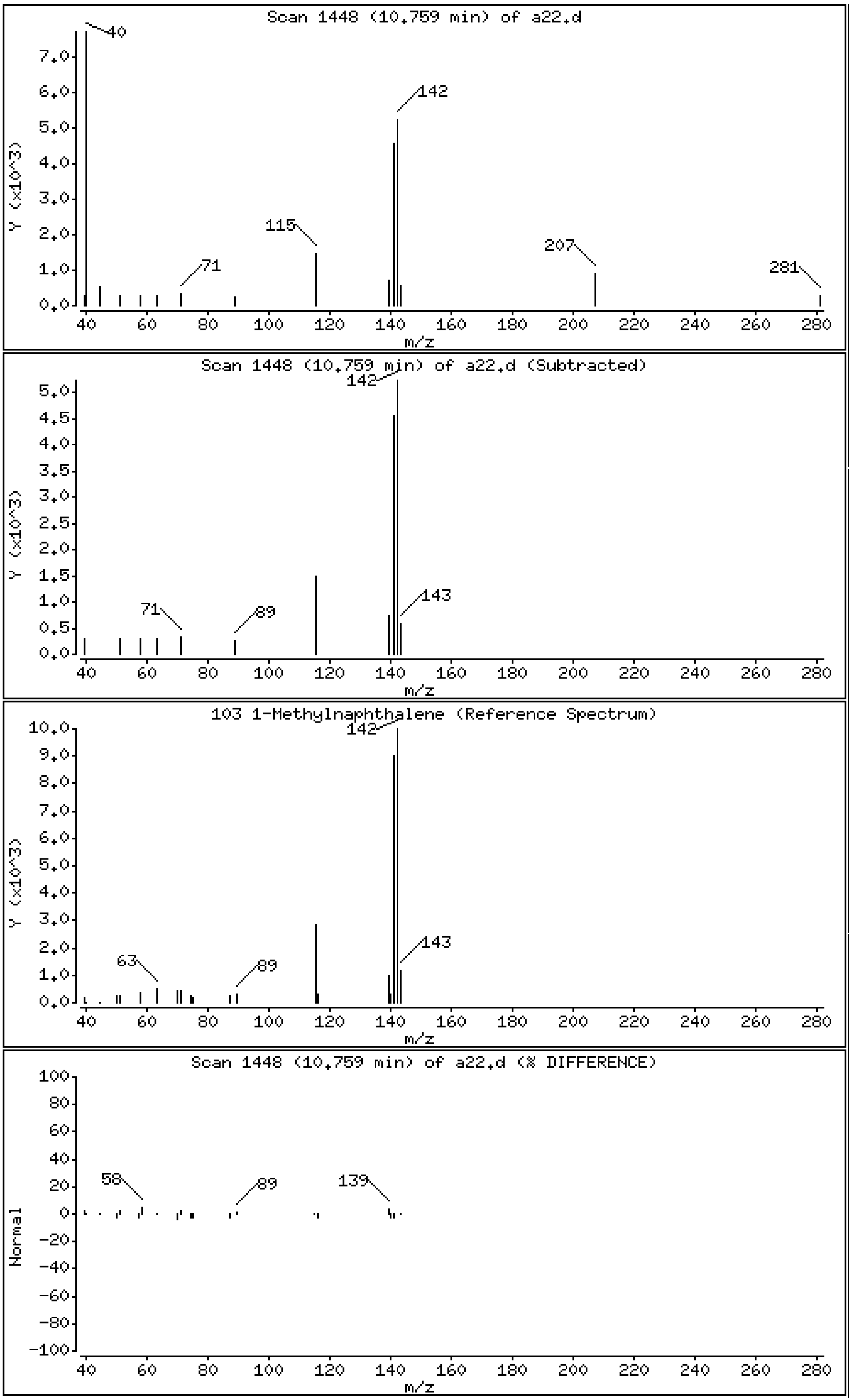
Column phase: DB-624

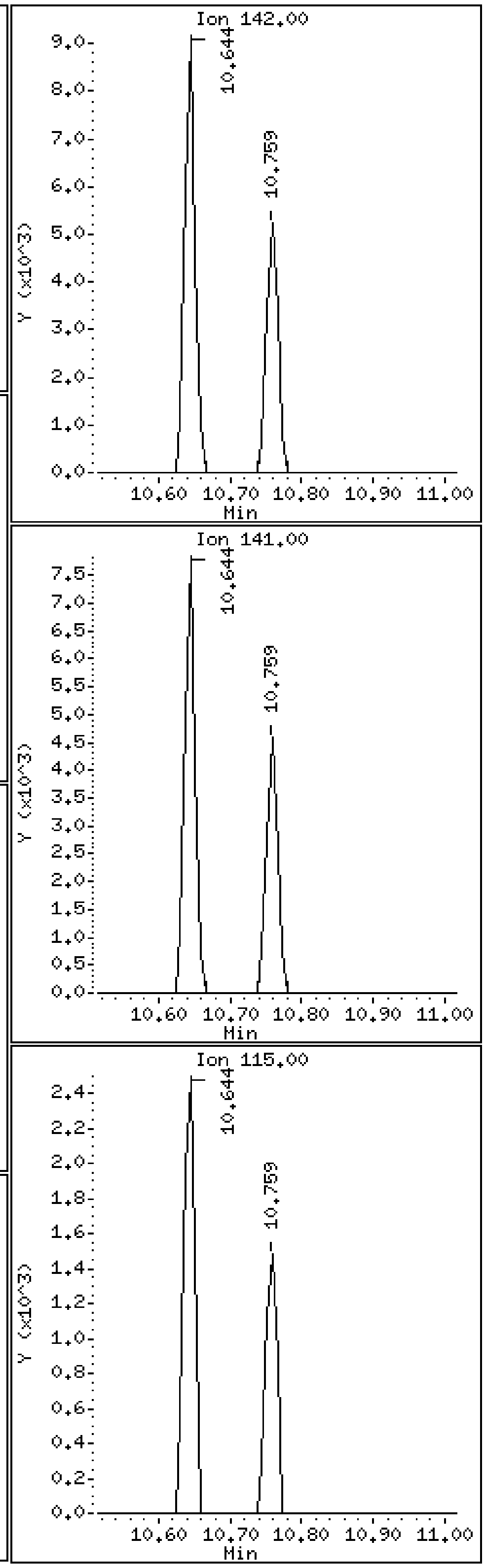
Column diameter: 0.18

103 1-Methylnaphthalene

Concentration: 48.8 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvda.i\a012323.b\a22.d

Date : 23-JAN-2023 20:03

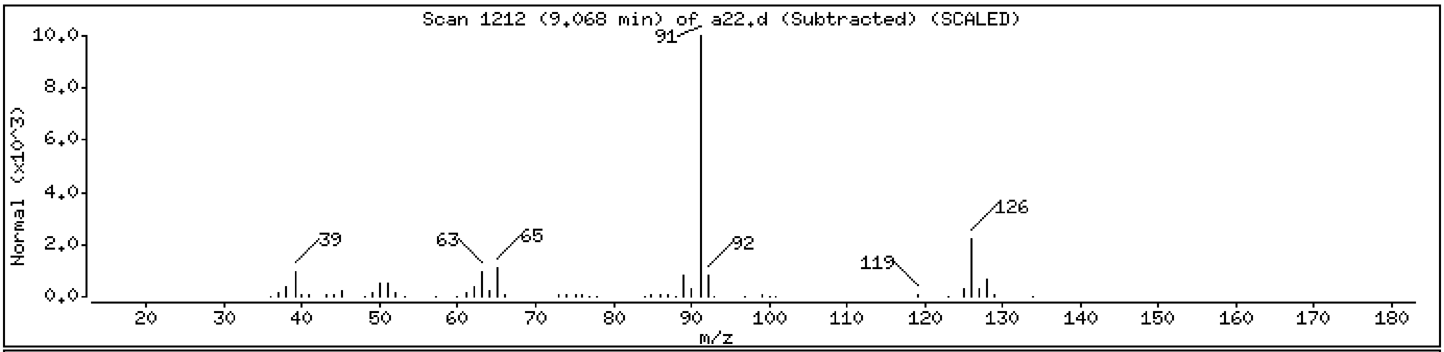
Client ID: LA2268MSD Instrument: 50mvda.i

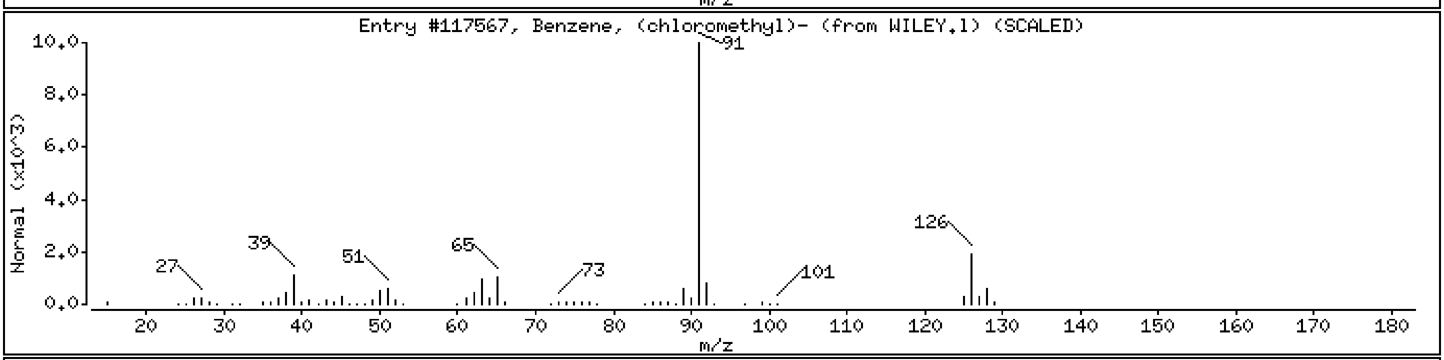
Sample Info: 3287470,336256:5

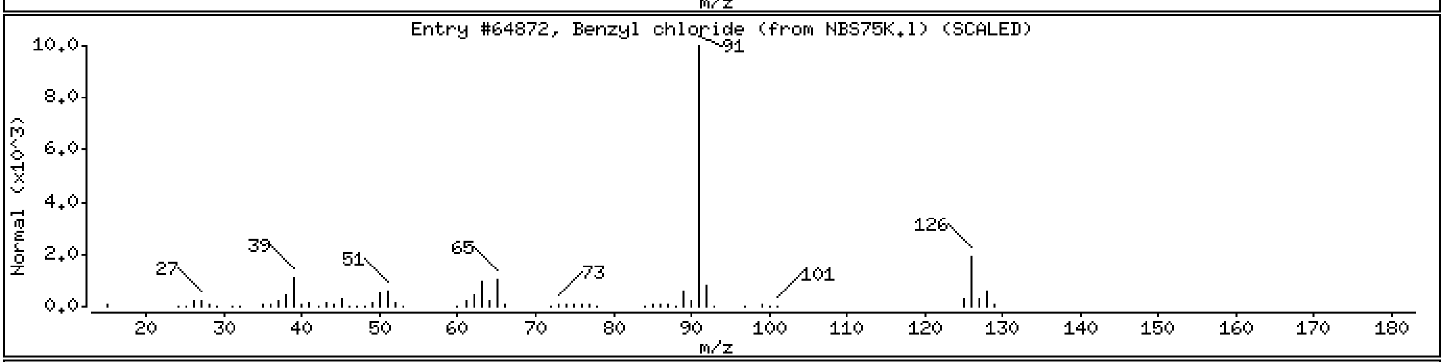
Purge Volume: 5.0 Operator: tkg

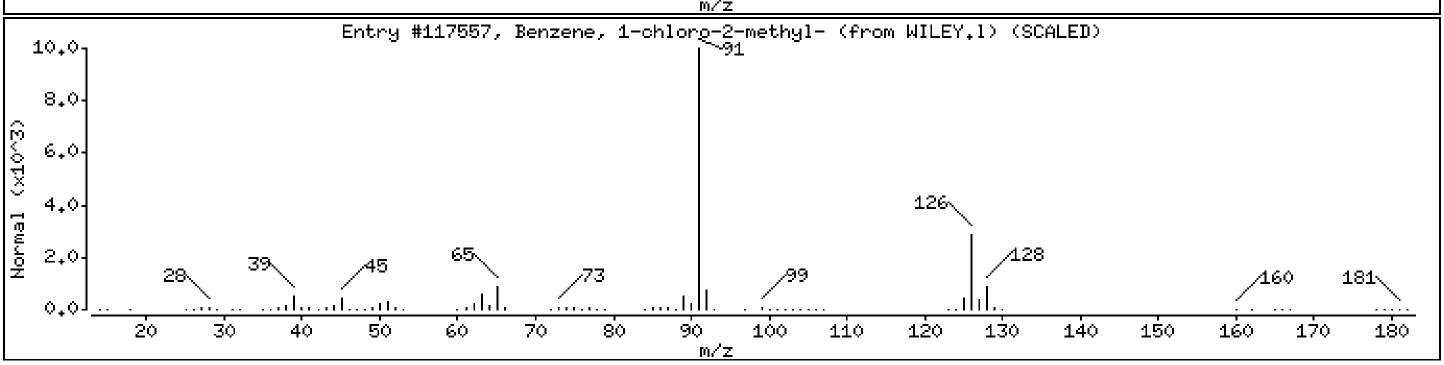
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (chloromethyl)-	100-44-7	WILEY.l	117567	94	C7H7Cl	126
Benzyl chloride	100-44-7	NBS75K.l	64872	94	C7H7Cl	126
Benzene, 1-chloro-2-methyl-	95-49-8	WILEY.l	117557	91	C7H7Cl	126









Data File: \\192.168.50.6\chem\50mvda.i\a012323.b/a22.d
Injection Date: 23-JAN-2023 20:03
Instrument: 50mvda.i
Lab Sample ID: 3287470
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b04mbw.d
Lab Smp Id: 3288022
Inj Date : 24-JAN-2023 14:36
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 3288022
Misc Info : 166221
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 QC Sample: BLANK
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

	QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 tert-Butyl Alcohol	59	Compound Not Detected.						
18 Methylene Chloride	84	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						
23 1,1-Dichloroethane	63	Compound Not Detected.						

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	==========================	====	====	========	========	========	=======	=======	========
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 2,2-Dichloropropane	77	Compound Not Detected.						
	29 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	30 2-Butanone	43	Compound Not Detected.						
	31 Ethyl Acetate	88	Compound Not Detected.						
	32 Propionitrile	54	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.842)	45551	54.1488	54.1	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.985	4.978	(1.000)	185190	50.0000	(Q)	
	48 Trichloroethene	95	Compound Not Detected.						
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.589	6.590	(0.864)	188620	48.2616	48.3	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	150728	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
$	77 4-Bromofluorobenzene	95	8.301	8.302	(1.088)	70245	49.4797	49.5	
	78 Bromobenzene	77	Compound Not Detected.						

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	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.874	8.875	(1.000)	83219	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	Compound Not Detected.						
103 1-Methylnaphthalene	142	Compound Not Detected.						

QC Flag Legend

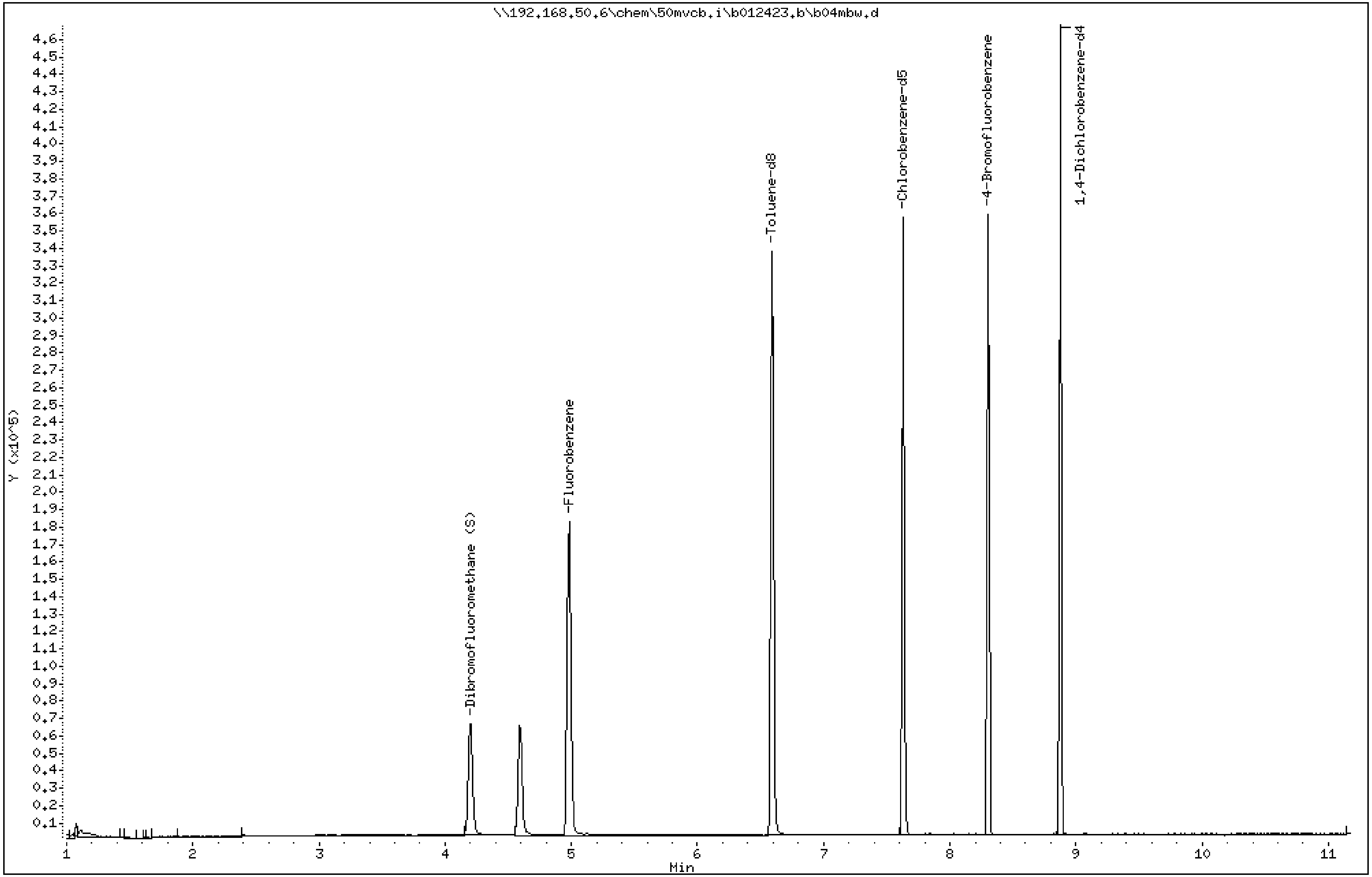
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b04mbw.d
Date : 24-JAN-2023 14:36
Client ID:
Sample Info: 3288022
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mvcb.i
Operator: tkg
Column diameter: 0.18



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Date : 24-JAN-2023 14:36

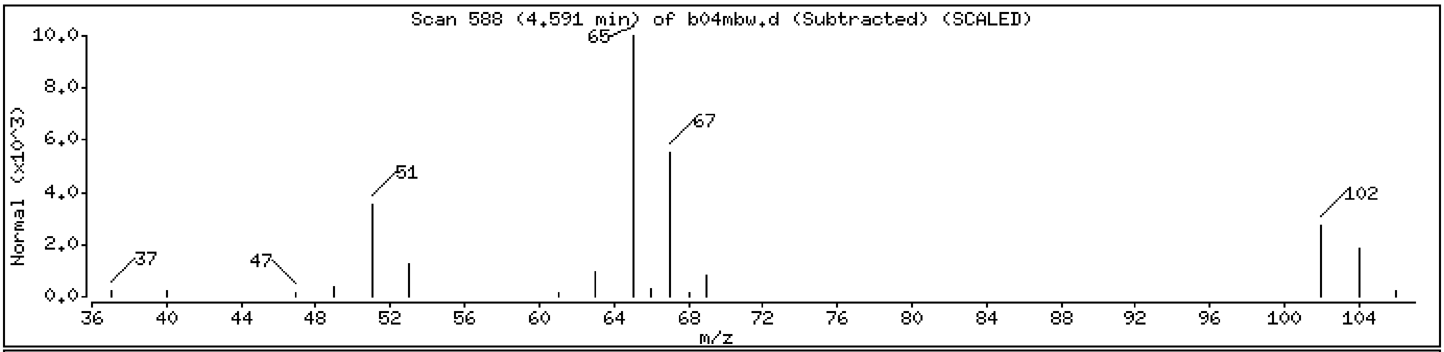
Client ID: Instrument: 50mvcb.i

Sample Info: 3288022

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Injection Date: 24-JAN-2023 14:36
Instrument: 50mvcb.i
Lab Sample ID: 3288022
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mvcb.i\b012423.b\b02lcsw.d
Lab Smp Id: 3288023
Inj Date : 24-JAN-2023 13:31
Operator : tkg Inst ID: 50mvcb.i
Smp Info : 3288023,335755:5
Misc Info : 166221
Comment :
Method : \\192.168.50.6\chem\50mvcb.i\b012423.b\-b8260_a_c.m
Meth Date : 26-Jan-2023 05:38 50mvcb.i Quant Type: ISTD
Cal Date : 16-JAN-2023 16:31 Cal File: b05.d
Als bottle: 1 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	1.174	1.174	(0.236)	56424	40.7781	40.8	
2 Chloromethane	50	1.303	1.303	(0.262)	37784	27.5786	27.6	
3 Vinyl Chloride	62	1.339	1.339	(0.269)	46379	30.9438	30.9	
4 Bromomethane	94	1.532	1.532	(0.308)	22180	31.6738	31.7	
5 Chloroethane	64	1.590	1.590	(0.319)	27497	32.1954	32.2	
6 Trichlorofluoromethane	101	1.740	1.740	(0.350)	99385	57.7137	57.7	
7 Diethyl ether	74	1.912	1.912	(0.384)	46200	57.0431	57.0	
8 Acrolein	56	1.991	1.991	(0.400)	296936	1167.84	1170	
9 1,1,2trichlorotrifluoroethane	101	2.063	2.063	(0.414)	68738	59.7163	59.7	
10 1,1-Dichloroethene	96	2.070	2.070	(0.416)	65820	57.5888	57.6	
11 Acetone	43	2.091	2.091	(0.420)	93440	250.393	250	
12 Iodomethane	142	2.177	2.177	(0.437)	50268	31.2413	31.2	
13 Carbon Disulfide	76	2.242	2.242	(0.450)	215224	56.4120	56.4	
14 Acetonitrile	39	2.313	2.313	(0.465)	51248	288.685	289	
15 allyl chloride	41	2.313	2.313	(0.465)	93849	44.6655	44.7	
16 Methyl Acetate	43	2.320	2.320	(0.466)	268444	266.944	267	
17 tert-Butyl Alcohol	59	2.464	2.464	(0.495)	37764	351.996	352	
18 Methylene Chloride	84	2.399	2.399	(0.482)	74597	59.1160	59.1	
19 Acrylonitrile	53	2.585	2.585	(0.519)	156295	335.958	336(R)	
20 Methyl-tert-butyl ether	73	2.628	2.628	(0.528)	202083	55.2771	55.3	
21 1,2-Dichloroethene (trans)	96	2.628	2.628	(0.528)	73483	56.3157	56.3	
22 n-Hexane	57	2.872	2.872	(0.577)	102559	64.0305	64.0	
23 1,1-Dichloroethane	63	3.001	3.001	(0.603)	112495	50.5020	50.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	24 Vinyl Acetate	43	3.037	3.037	(0.610)	620376	257.611	258	
	25 Diisopropyl ether	45	3.065	3.065	(0.616)	193253	52.7156	52.7	
	26 chloroprene	53	3.094	3.094	(0.622)	98515	55.8649	55.9	
	27 Ethyl-tert-butyl ether	59	3.452	3.452	(0.694)	198699	53.8325	53.8	
	28 2,2-Dichloropropane	77	3.624	3.624	(0.728)	96197	55.1930	55.2	
	29 1,2-Dichloroethene (cis)	96	3.617	3.617	(0.727)	79933	55.3053	55.3	
	30 2-Butanone	43	3.624	3.624	(0.728)	160127	283.294	283	
	31 Ethyl Acetate	88	3.717	3.717	(0.747)	22265	316.547	316	
	32 Propionitrile	54	3.689	3.689	(0.741)	56368	354.869	355(R)	
	33 Methacrylonitrile	41	3.889	3.889	(0.781)	210737	291.803	292	
	34 Bromochloromethane	49	3.903	3.903	(0.784)	46920	48.0784	48.1	
	35 Tetrahydrofuran	42	3.982	3.982	(0.800)	118307	289.755	290	
	36 Chloroform	83	4.004	4.004	(0.804)	107072	47.6095	47.6	
$	37 Dibromofluoromethane (S)	113	4.197	4.197	(0.843)	46095	49.3307	49.3	
	38 1,1,1-Trichloroethane	97	4.240	4.240	(0.852)	92509	49.7947	49.8	
	39 Cyclohexane	56	4.312	4.312	(0.866)	102834	52.3709	52.4	
	40 Carbon Tetrachloride	117	4.441	4.441	(0.892)	83756	51.6219	51.6	
	41 1,1-Dichloropropene	75	4.433	4.433	(0.891)	85596	53.3541	53.4	
	42 Isobutyl alcohol	43	4.584	4.584	(0.921)	11416	302.331	302	
	43 Benzene	78	4.670	4.670	(0.938)	266697	48.2515	48.2	
	44 1,2-Dichloroethane	62	4.677	4.677	(0.940)	69891	50.6790	50.7	
	45 2,2,4-Trimethylpentane	57	4.777	4.777	(0.960)	172621	55.2418	55.2	
	46 tert-Amylmethyl ether	73	4.813	4.813	(0.967)	173983	48.2813	48.3	
*	47 Fluorobenzene	96	4.978	4.978	(1.000)	205705	50.0000		
	48 Trichloroethene	95	5.379	5.379	(1.081)	62178	44.9428	44.9	
	49 Methylcyclohexane	55	5.587	5.587	(1.122)	84031	57.3353	57.3	
	50 1,2-Dichloropropane	63	5.601	5.601	(1.125)	70961	58.0346	58.0	
	51 Dibromomethane	93	5.716	5.716	(1.148)	41202	52.3595	52.4	
	52 Methyl methacrylate	69	5.759	5.759	(1.157)	61578	61.3714	61.4	
	53 1,4-Dioxane	88	5.766	5.766	(1.158)	1551	442.043	442	
	54 Bromodichloromethane	83	5.888	5.888	(1.183)	91744	60.9339	60.9	
	55 2-Chloroethyl vinyl ether	63	6.210	6.210	(0.814)	254226	276.287	276	
	56 cis-1,3-Dichloropropene	75	6.346	6.346	(0.832)	123763	50.4427	50.4	
	57 4-Methyl-2-Pentanone	43	6.496	6.496	(0.852)	382348	266.602	267	
$	58 Toluene-d8	98	6.590	6.590	(0.864)	222892	49.1752	49.2	
	59 Toluene	91	6.647	6.647	(0.871)	327536	48.6133	48.6	
	60 trans-1,3-Dichloropropene	75	6.826	6.826	(0.895)	107904	49.8060	49.8	
	61 Ethyl Methacrylate	69	6.919	6.919	(0.907)	104719	53.2316	53.2	
	62 1,1,2-Trichloroethane	83	6.962	6.962	(0.913)	54172	48.1080	48.1	
	63 Tetrachloroethene	166	7.077	7.077	(0.928)	93358	51.1565	51.2	
	64 1,3-Dichloropropane	76	7.091	7.091	(0.930)	114621	47.7378	47.7	
	65 2-Hexanone	43	7.163	7.163	(0.939)	280454	265.449	265	
	66 Dibromochloromethane	129	7.249	7.249	(0.950)	78920	49.7152	49.7	
	67 1,2-Dibromoethane	107	7.320	7.320	(0.960)	70880	48.6175	48.6	
*	68 Chlorobenzene-d5	117	7.628	7.628	(1.000)	174806	50.0000		
	69 Chlorobenzene	112	7.650	7.650	(1.003)	219559	49.8202	49.8	
	70 1,1,1,2-Tetrachloroethane	131	7.700	7.700	(1.009)	77221	50.7470	50.7	
	71 Ethylbenzene	106	7.721	7.721	(1.012)	118896	51.6841	51.7	
	72 m&p-Xylene	106	7.793	7.793	(1.022)	293787	100.716	101	
	73 o-Xylene	106	8.022	8.022	(1.052)	131950	49.0808	49.1	
	74 Styrene	104	8.029	8.029	(1.053)	235211	51.5136	51.5	
	75 Bromoform	173	8.130	8.130	(0.916)	61315	50.2854	50.3	
	76 Isopropylbenzene	105	8.223	8.223	(1.078)	354132	52.8954	52.9	
$	77 4-Bromofluorobenzene	95	8.302	8.302	(1.088)	84157	51.1140	51.1	

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	78 Bromobenzene	77	8.380	8.380	(1.099)	168788	50.6877	50.7	
	79 1,1,2,2-Tetrachloroethane	83	8.373	8.373	(0.944)	97661	48.7515	48.8	
	80 1,2,3-Trichloropropane	110	8.395	8.395	(0.946)	31352	49.6736	49.7	
	81 trans-1,4-Dichloro-2-butene	53	8.402	8.402	(1.101)	26744	50.9831	51.0	
	82 n-Propylbenzene	91	8.438	8.438	(0.951)	407777	53.1493	53.1	
	83 2-Chlorotoluene	91	8.481	8.481	(0.956)	241298	51.6472	51.6	
	84 1,3,5-Trimethylbenzene	105	8.524	8.524	(0.960)	285090	53.5956	53.6	
	85 4-Chlorotoluene	126	8.538	8.538	(0.962)	89199	50.8537	50.8	
	86 tert-Butylbenzene	119	8.688	8.688	(0.979)	284841	53.9196	53.9	
	87 1,2,4-Trimethylbenzene	105	8.710	8.710	(0.981)	290653	53.8495	53.8	
	88 sec-Butylbenzene	105	8.789	8.789	(0.990)	347723	54.1200	54.1	
	89 1,3-Dichlorobenzene	146	8.846	8.846	(0.997)	168695	52.8946	52.9	
	90 p-Isopropyltoluene	119	8.853	8.853	(0.998)	304579	54.3626	54.4	
*	91 1,4-Dichlorobenzene-d4	152	8.875	8.875	(1.000)	95211	50.0000		
	92 1,4-Dichlorobenzene	146	8.889	8.889	(1.002)	168076	51.3286	51.3	
	93 1,2,3-Trimethylbenzene	105	8.910	8.910	(1.004)	277956	51.4922	51.5	
	94 n-Butylbenzene	91	9.046	9.046	(1.019)	213646	46.8671	46.9	
	95 1,2-Dichlorobenzene	146	9.061	9.061	(1.021)	138790	45.7200	45.7	
	96 Hexachloroethane	201	9.190	9.190	(1.036)	46543	52.8578	52.8	
	97 1,2-Dibromo-3-chloropropane	155	9.405	9.405	(1.060)	21805	52.6502	52.6	
	98 1,2,4-Trichlorobenzene	180	9.763	9.763	(1.100)	74480	44.1285	44.1	
	99 Hexachlorobutadiene	225	9.834	9.834	(1.108)	39767	48.3024	48.3	
	100 Naphthalene	128	9.877	9.877	(1.113)	214238	44.9620	45.0	
	101 1,2,3-Trichlorobenzene	180	9.985	9.985	(1.125)	65932	47.7810	47.8	
	102 2,methyl-naphthalene	142	10.415	10.415	(1.174)	17839	51.6810	51.7	
	103 1-Methylnaphthalene	142	10.522	10.522	(1.186)	10307	50.2734	50.3	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d

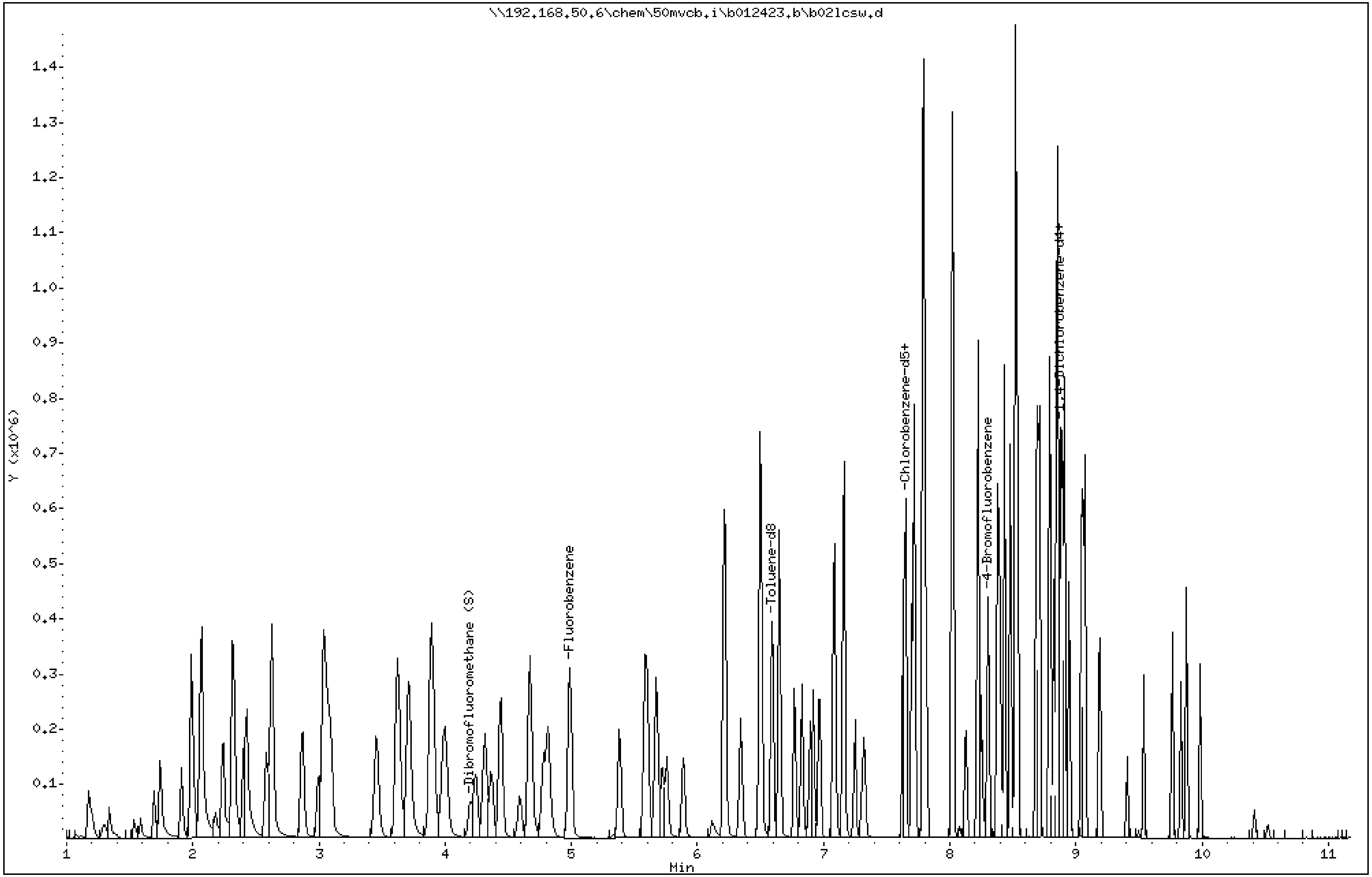
Date : 24-JAN-2023 13:31

Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b02lcsw.d Page 5

Date : 24-JAN-2023 13:31

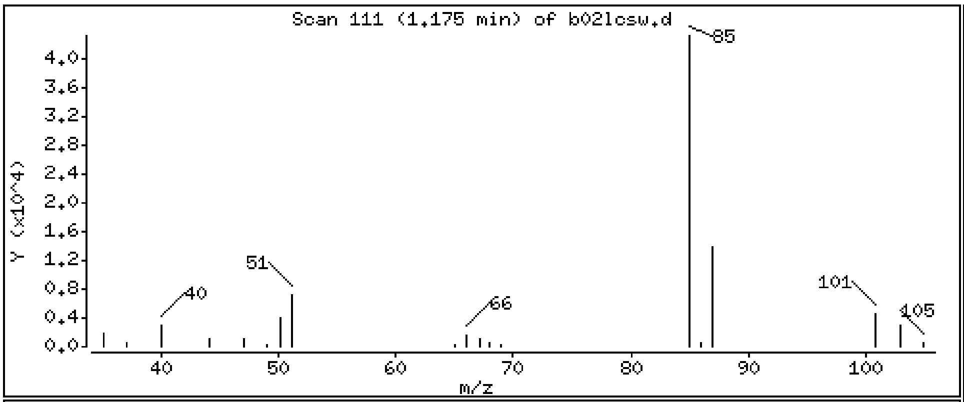
Client ID: Instrument: 50mvcb.i

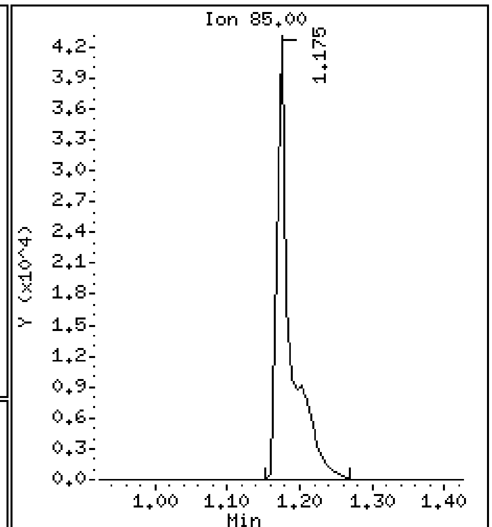
Sample Info: 3288023,335755:5

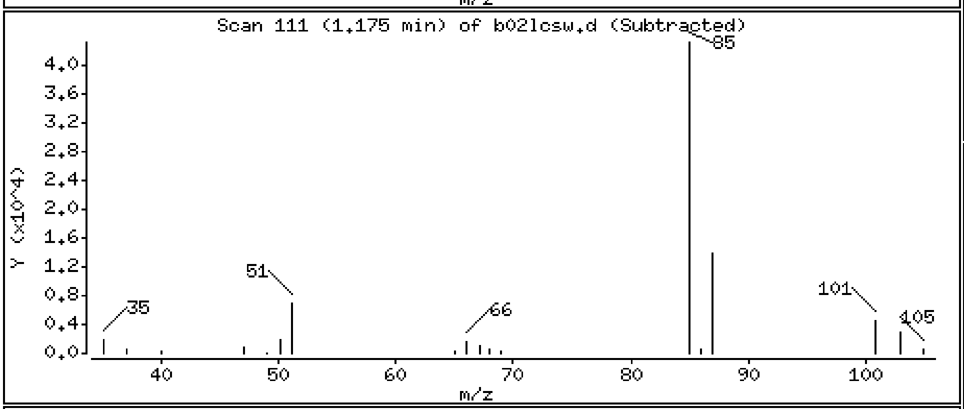
Purge Volume: 5.0 Operator: tkg

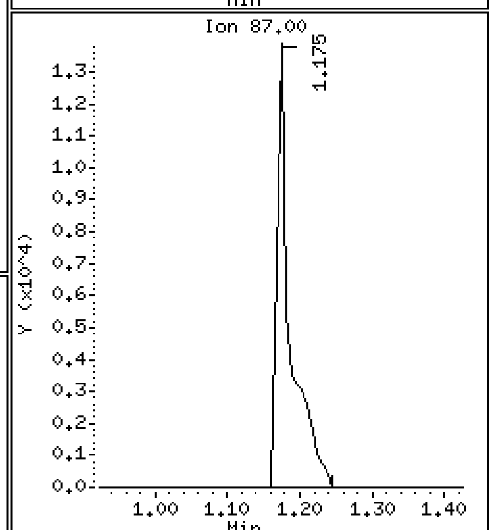
Column phase: DB-624 Column diameter: 0.18

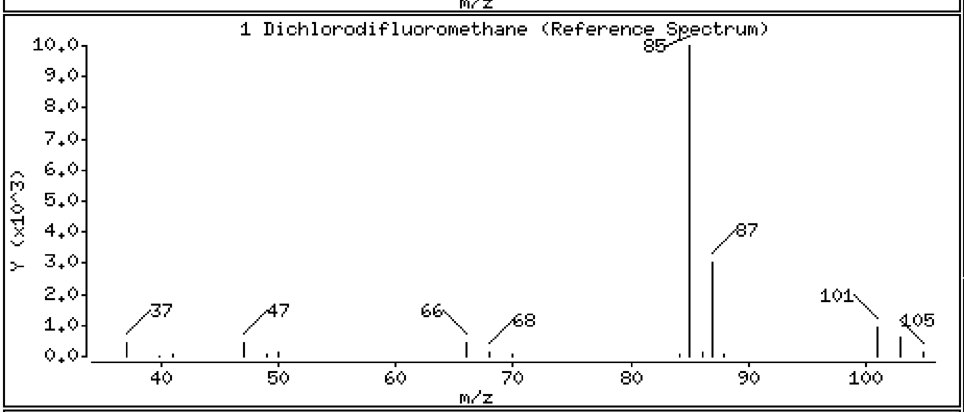
1 Dichlorodifluoromethane Concentration: 40.8 ppb Review Code:

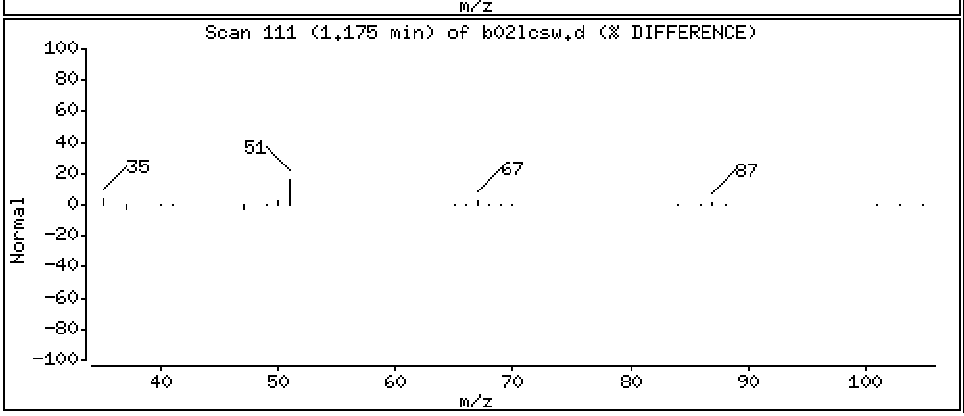


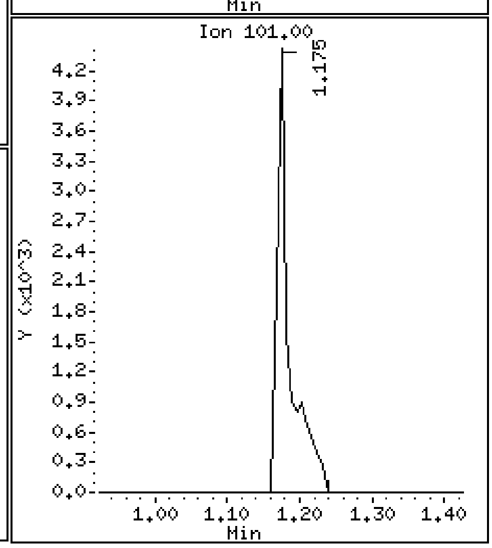












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

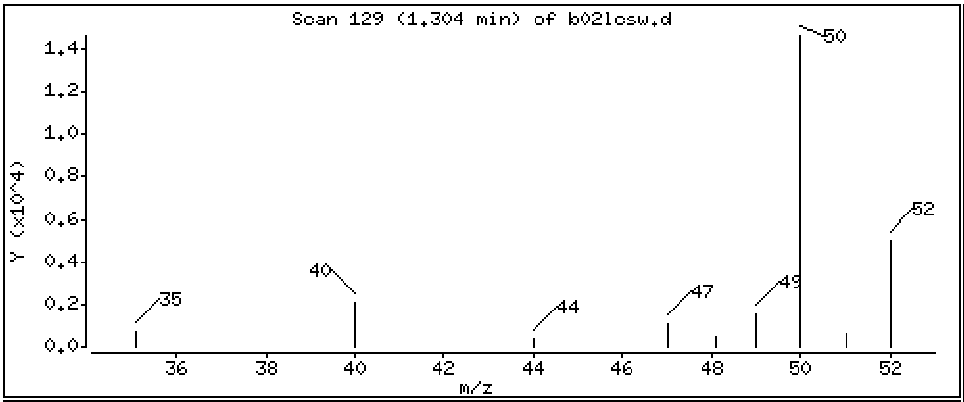
Column phase: DB-624

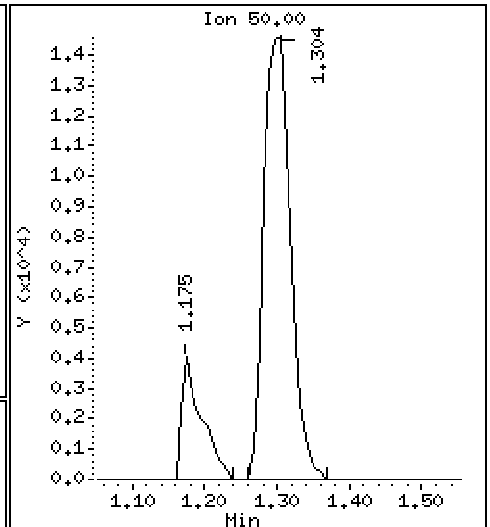
Column diameter: 0.18

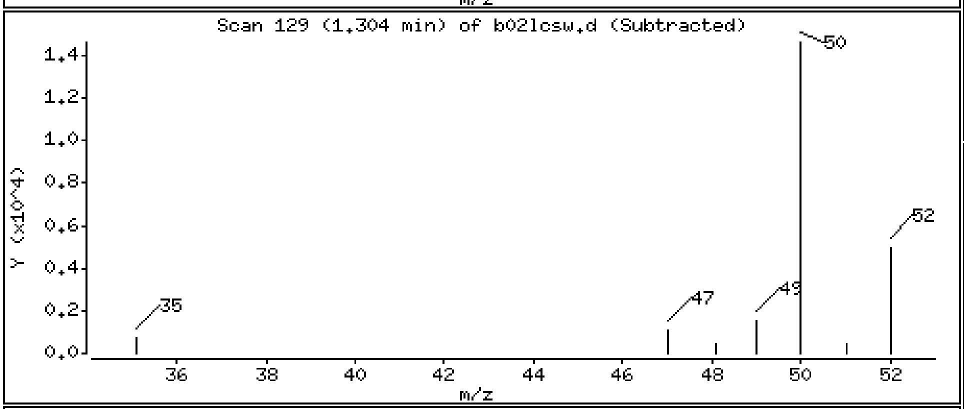
2 Chloromethane

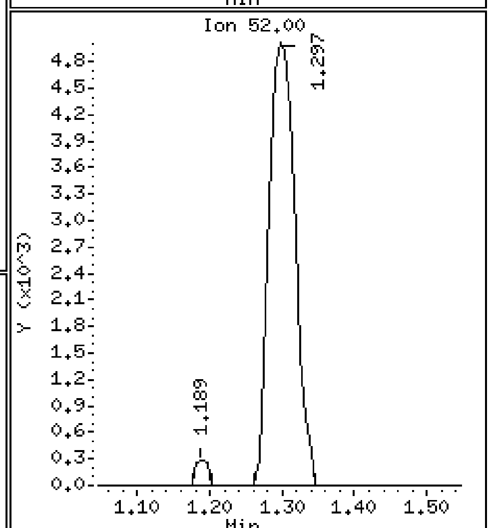
Concentration: 27.6 ppb

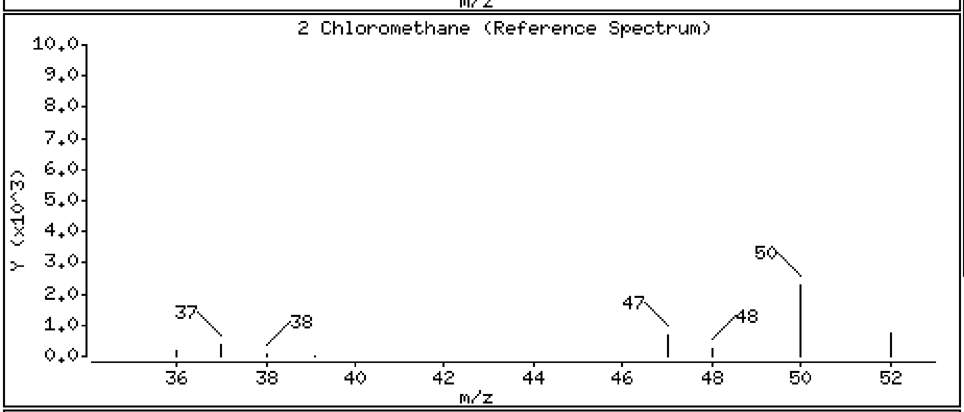
Review Code:

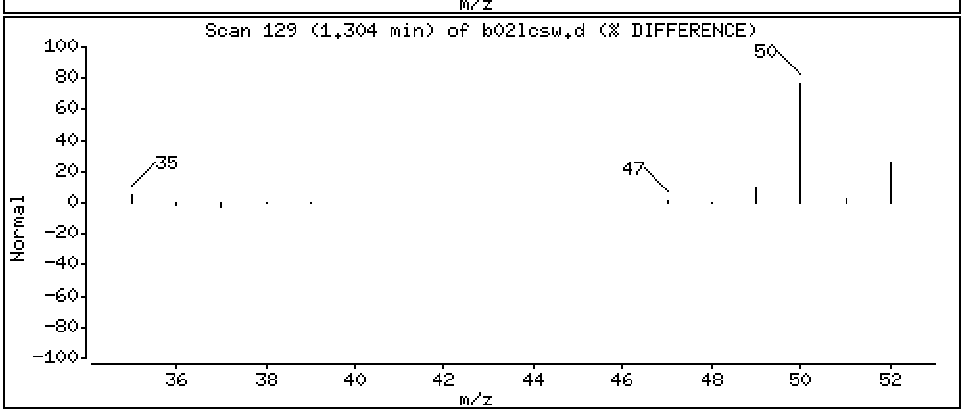












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

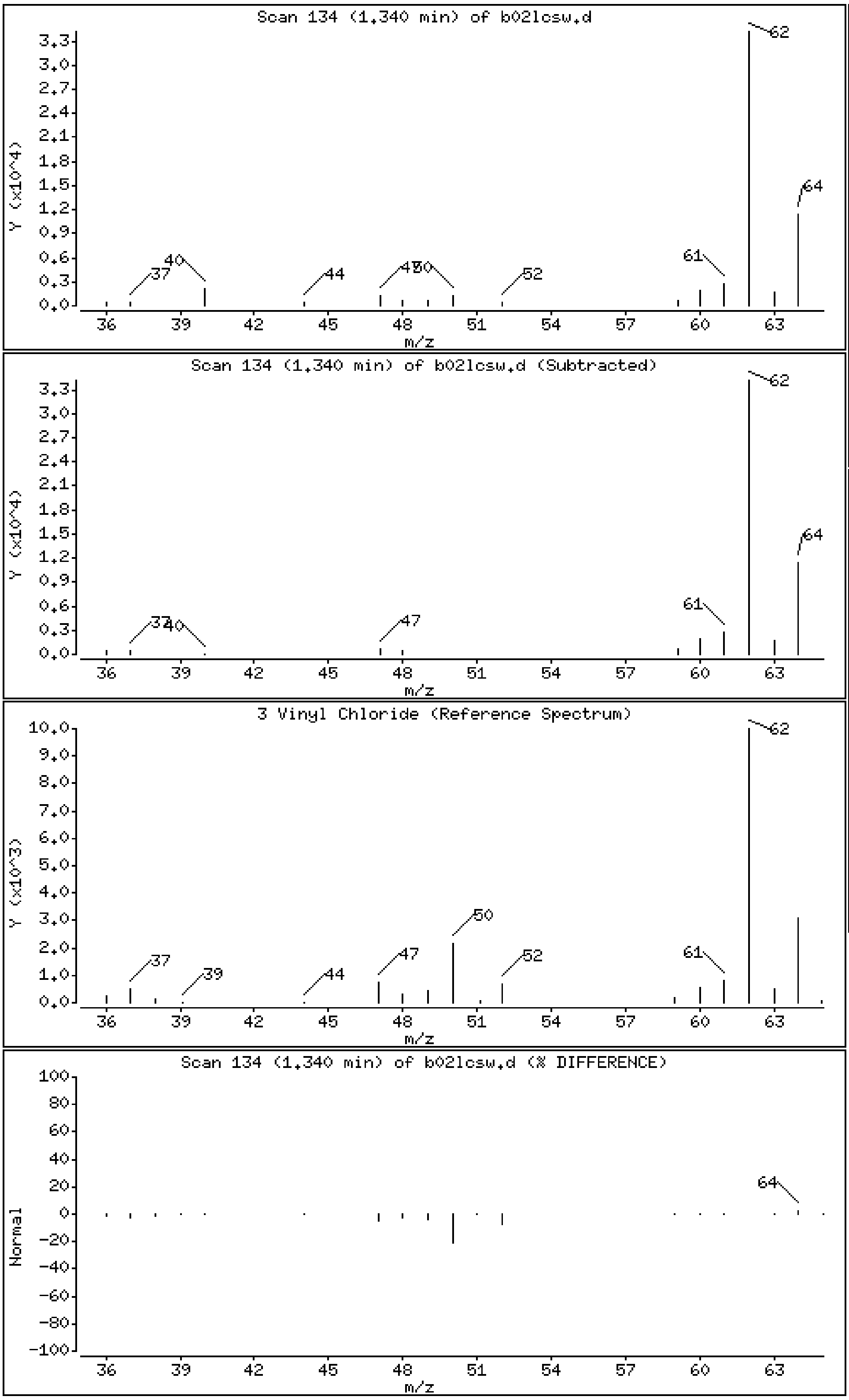
Column phase: DB-624

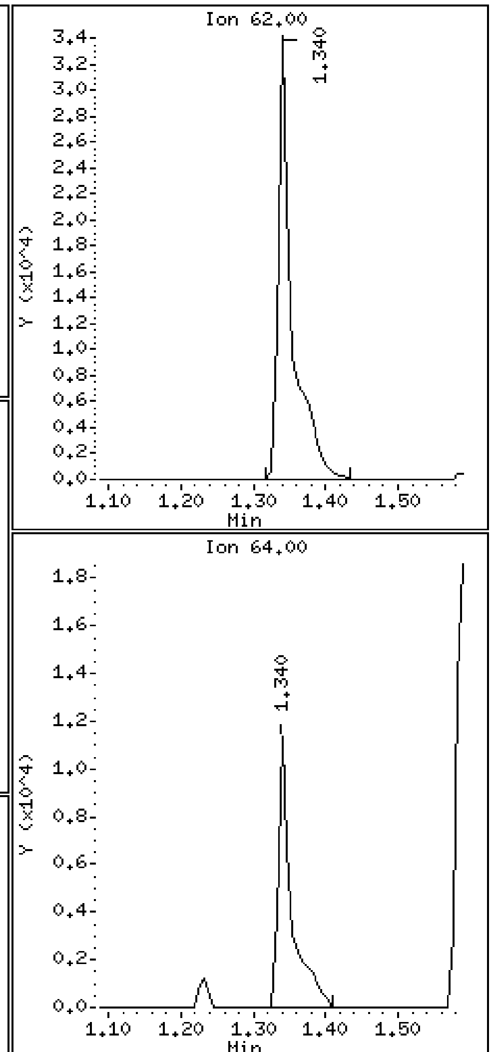
Column diameter: 0.18

3 Vinyl Chloride

Concentration: 30.9 ppb

Review Code:





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Date : 24-JAN-2023 13:31

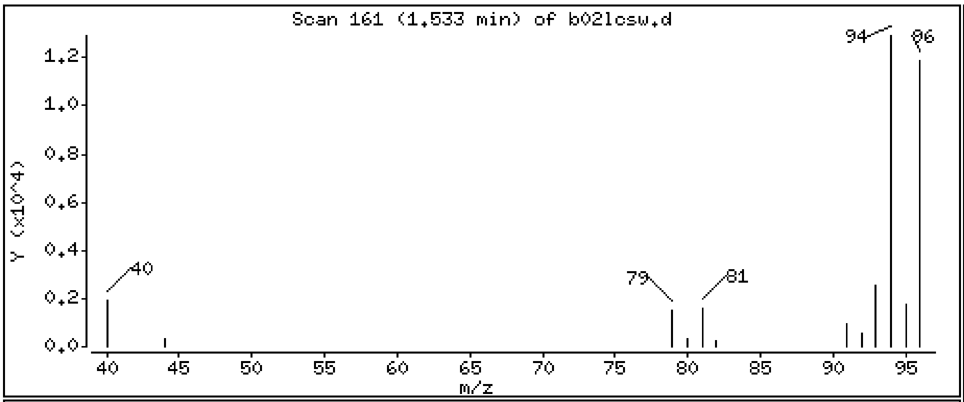
Client ID: Instrument: 50mvcb.i

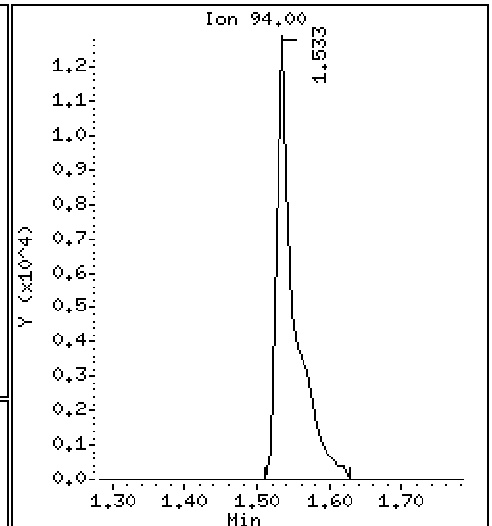
Sample Info: 3288023,335755:5

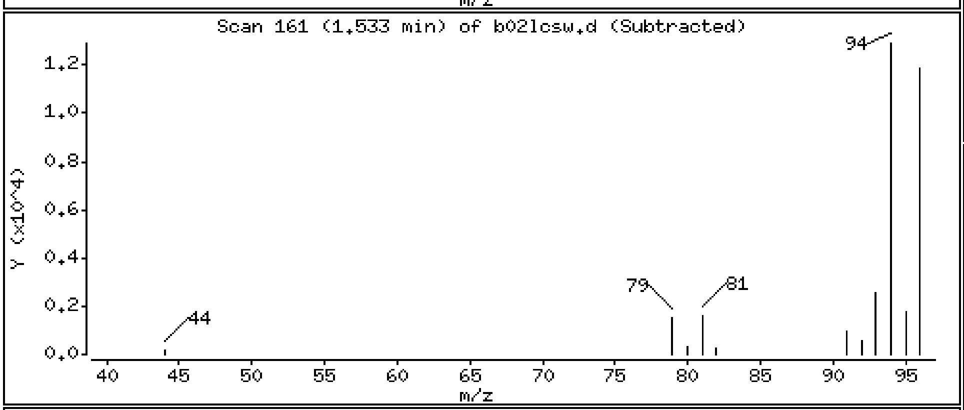
Purge Volume: 5.0 Operator: tkg

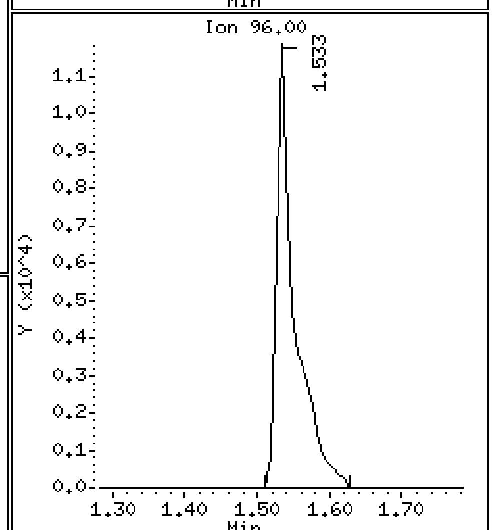
Column phase: DB-624 Column diameter: 0.18

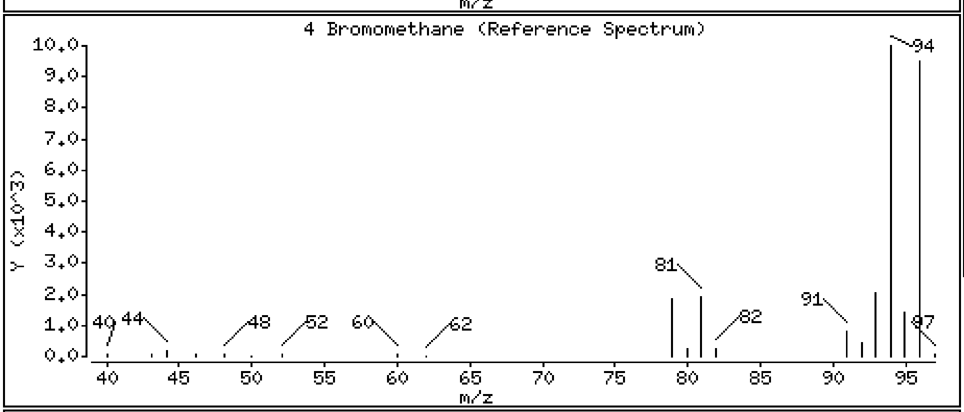
4 Bromomethane Concentration: 31.7 ppb Review Code:

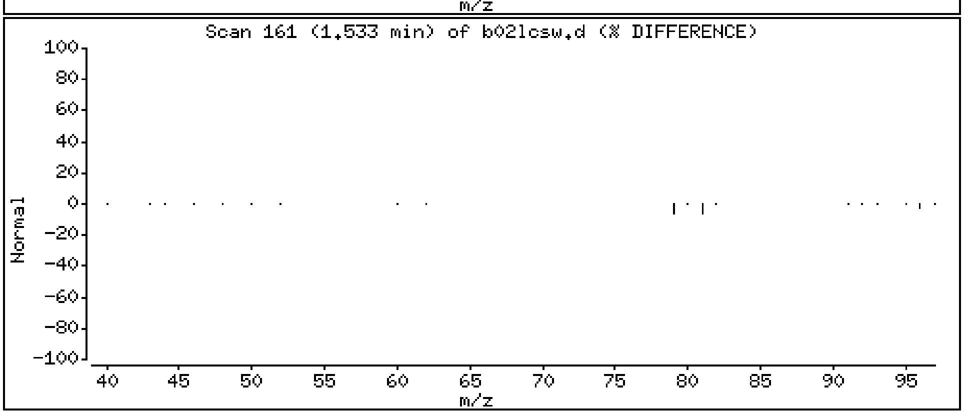












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

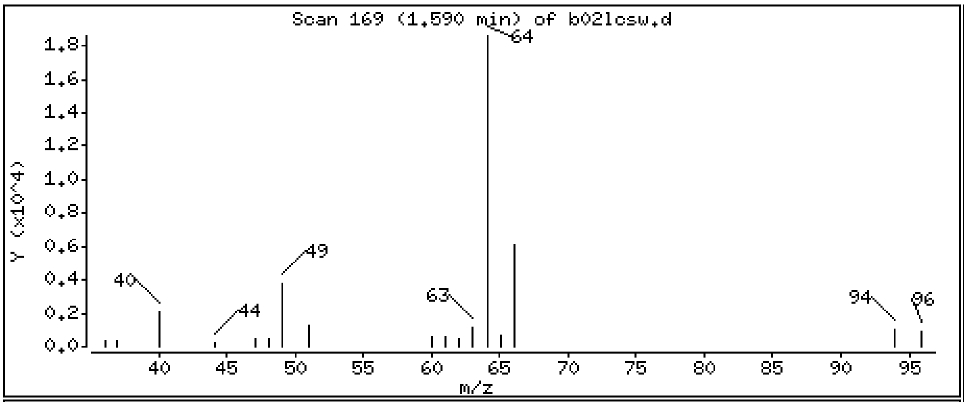
Column phase: DB-624

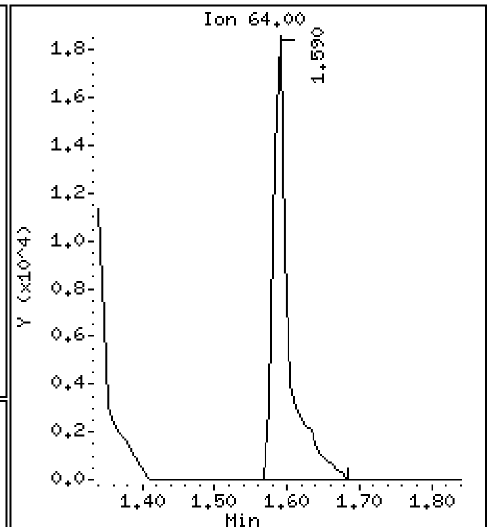
Column diameter: 0.18

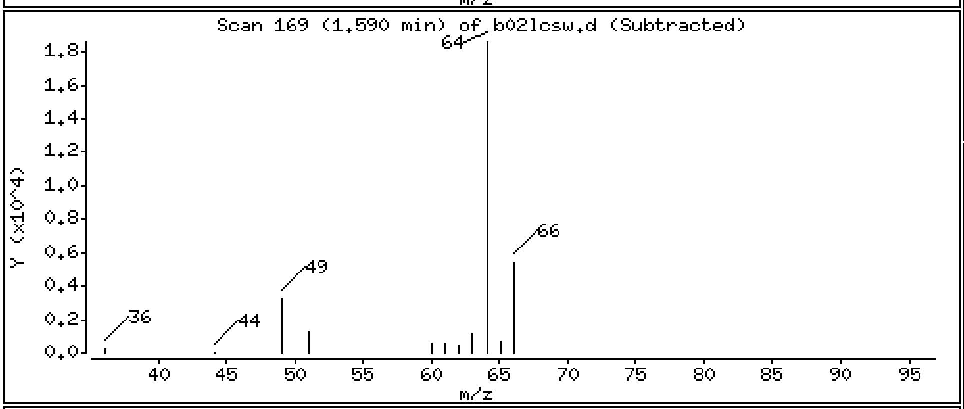
5 Chloroethane

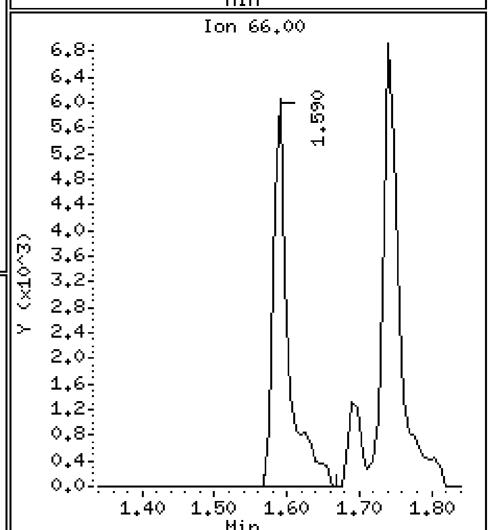
Concentration: 32.2 ppb

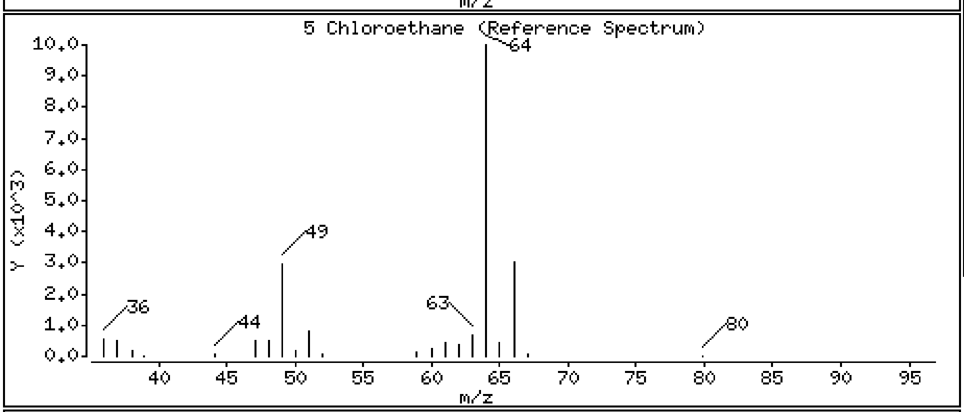
Review Code:

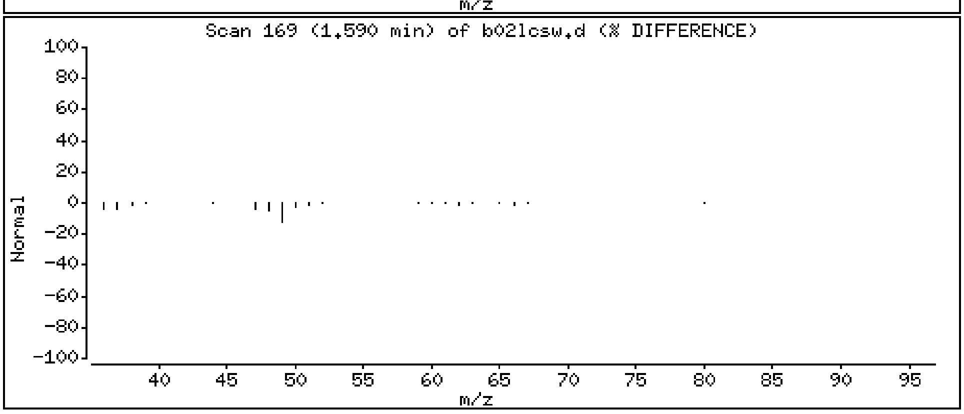












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Date : 24-JAN-2023 13:31

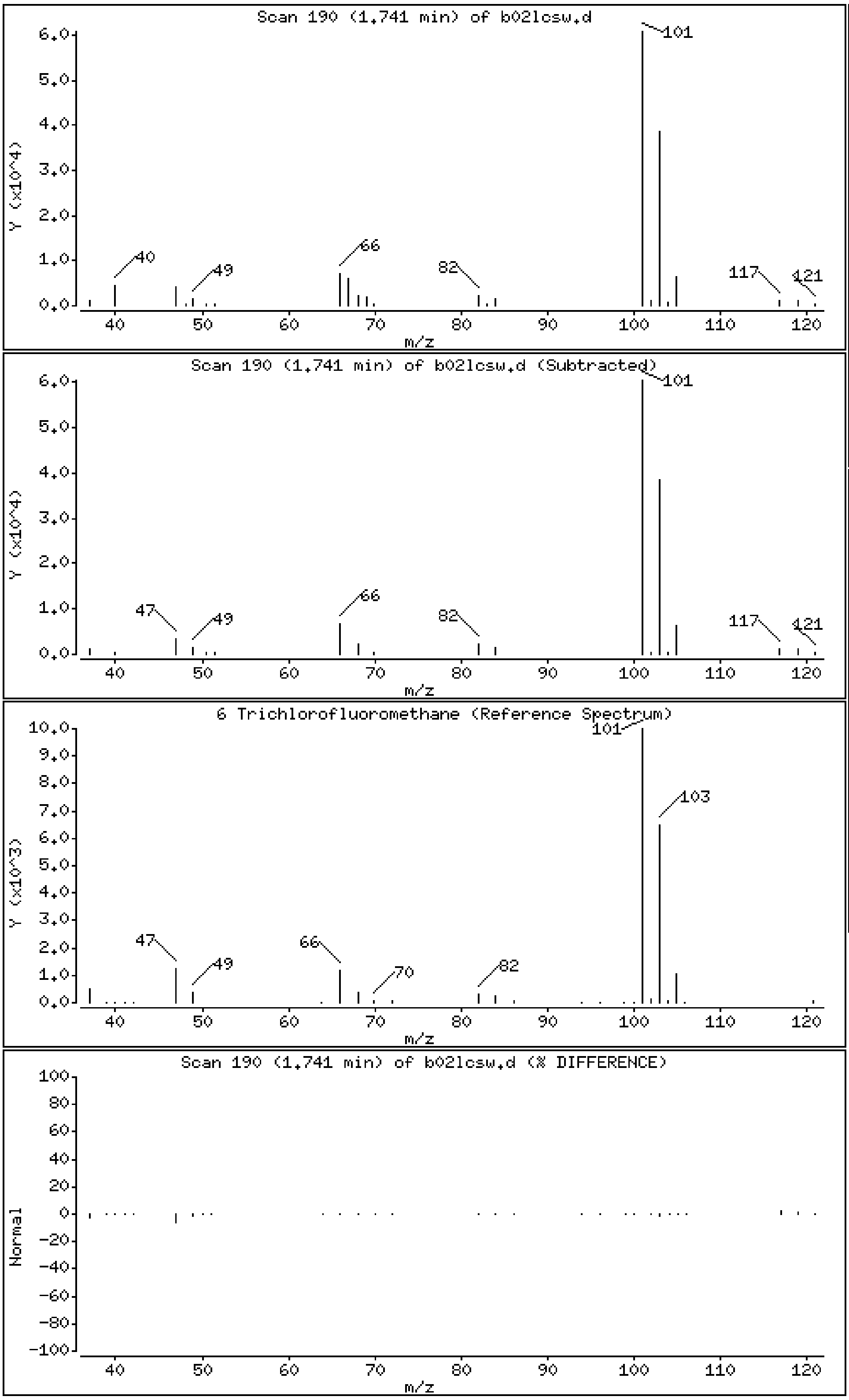
Client ID: Instrument: 50mvcb.i

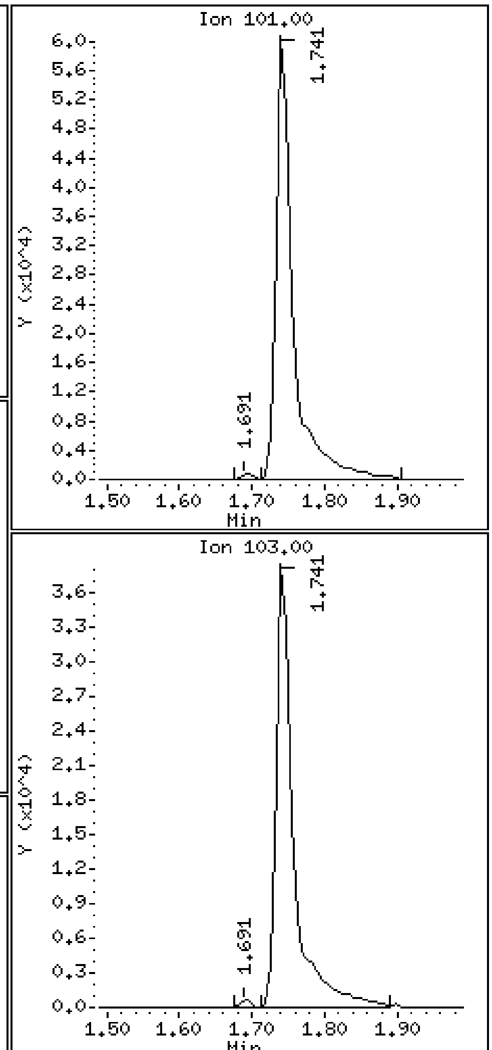
Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

6 Trichlorofluoromethane Concentration: 57.7 ppb Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

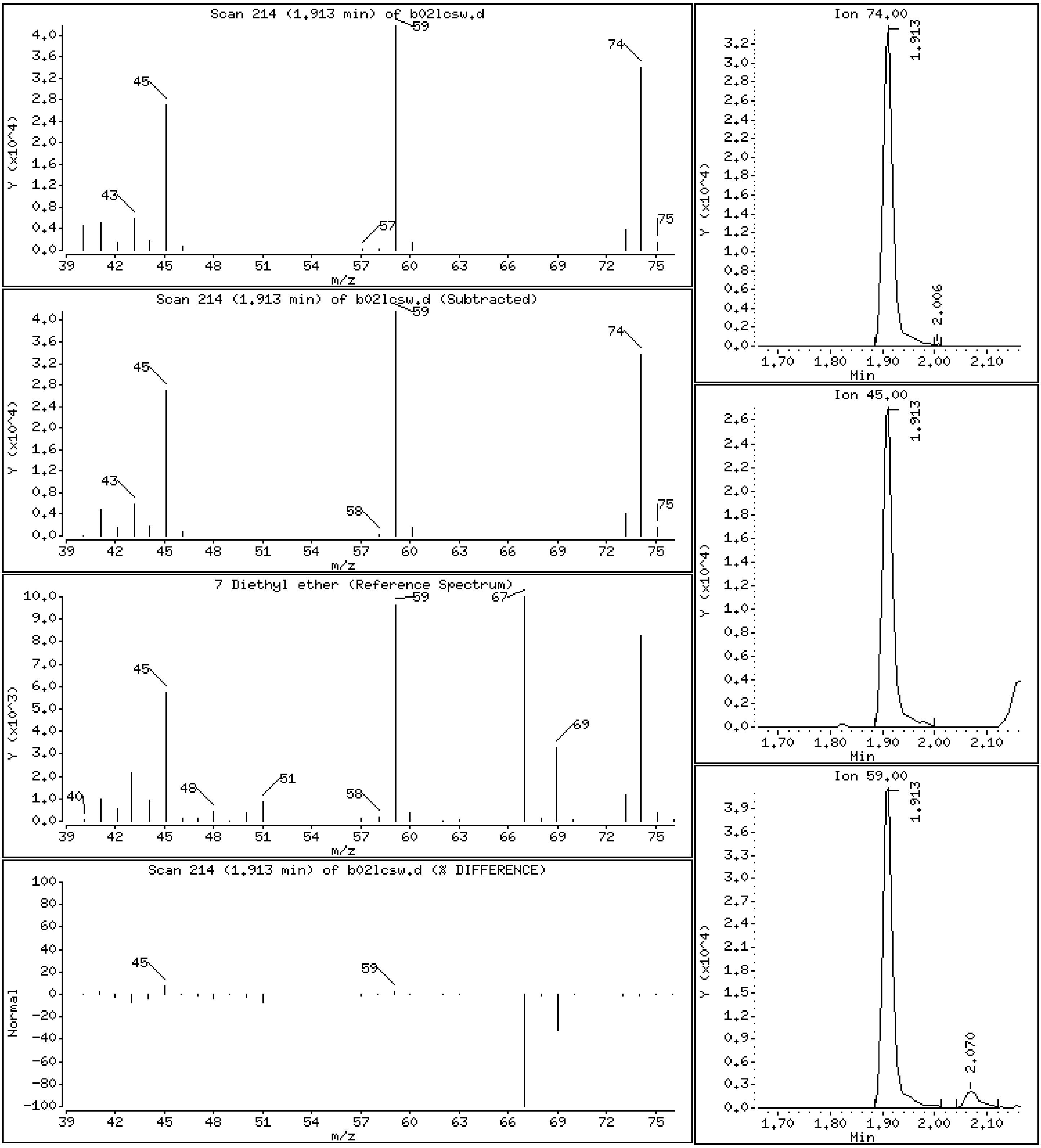
Column phase: DB-624

Column diameter: 0.18

7 Diethyl ether

Concentration: 57.0 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

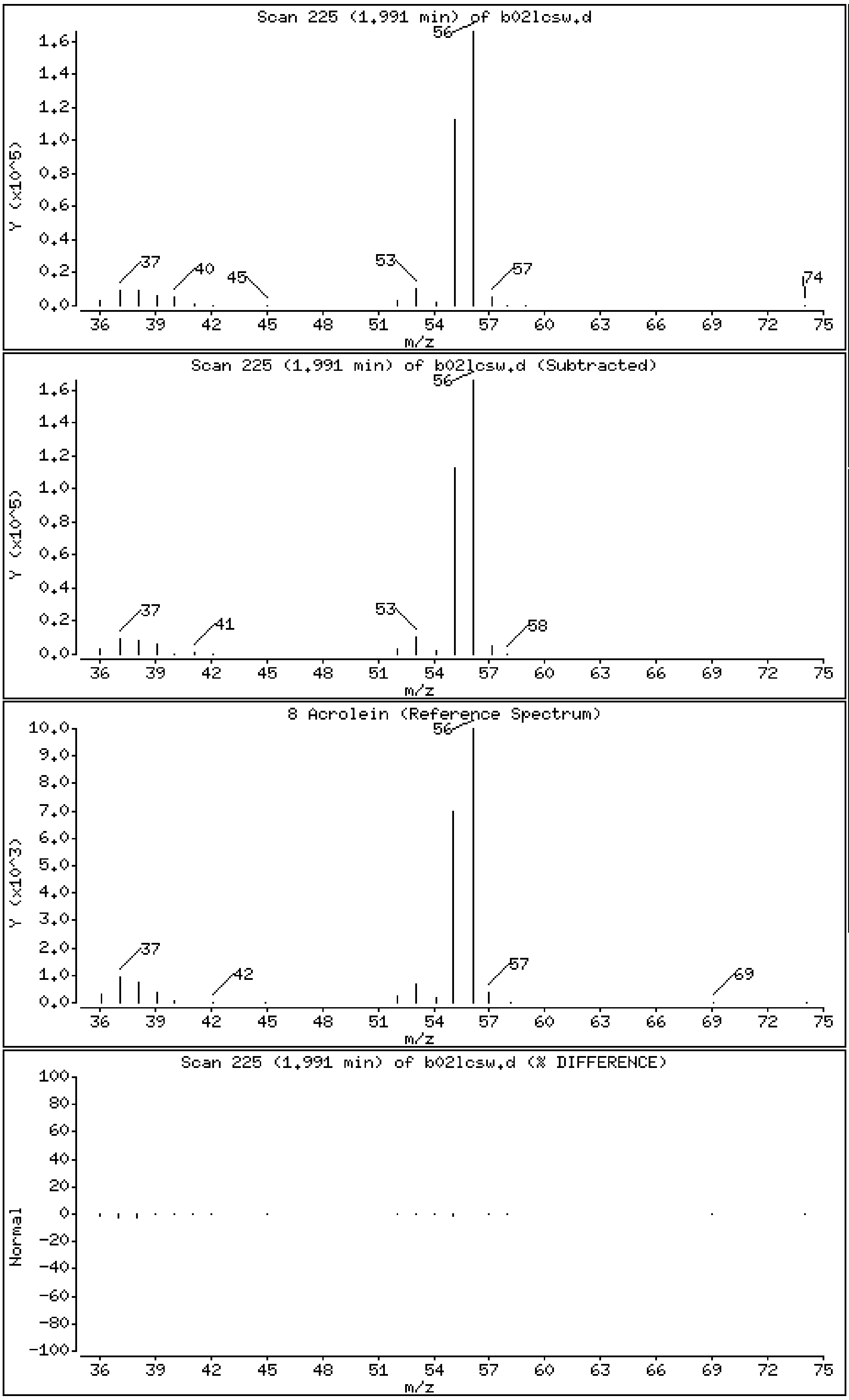
Column phase: DB-624

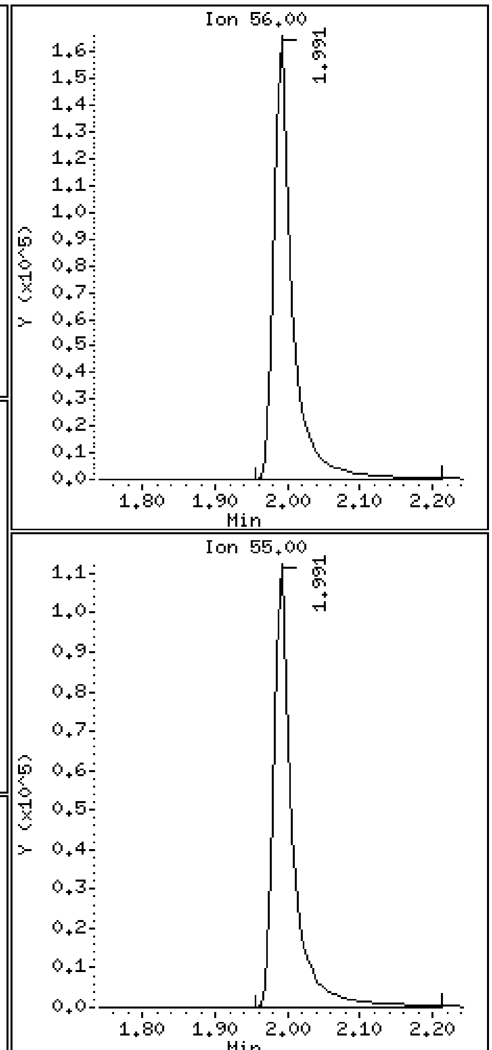
Column diameter: 0.18

8 Acrolein

Concentration: 1170 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

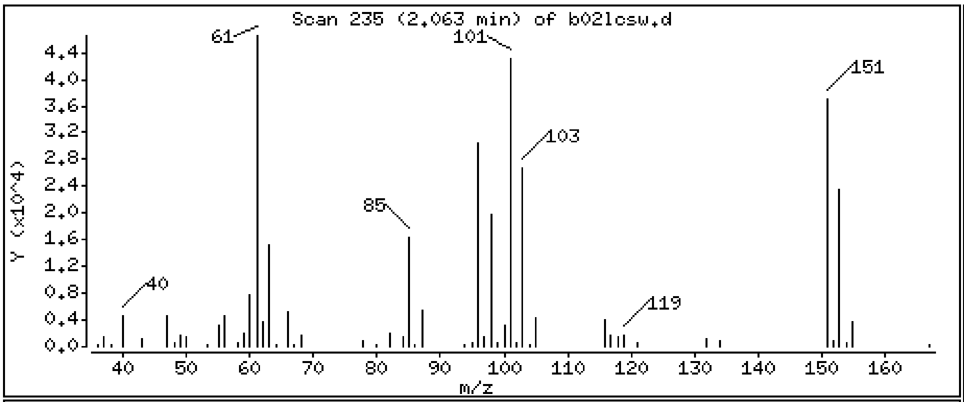
Column phase: DB-624

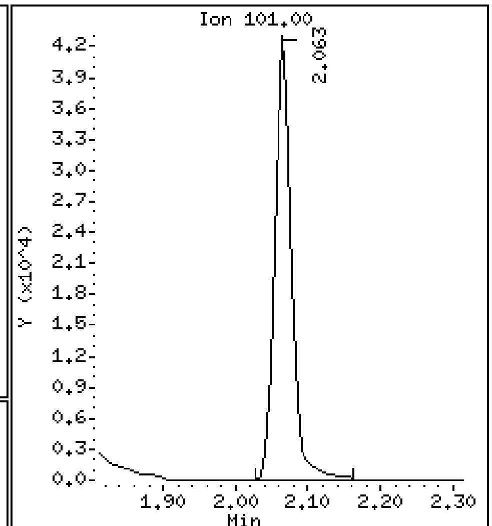
Column diameter: 0.18

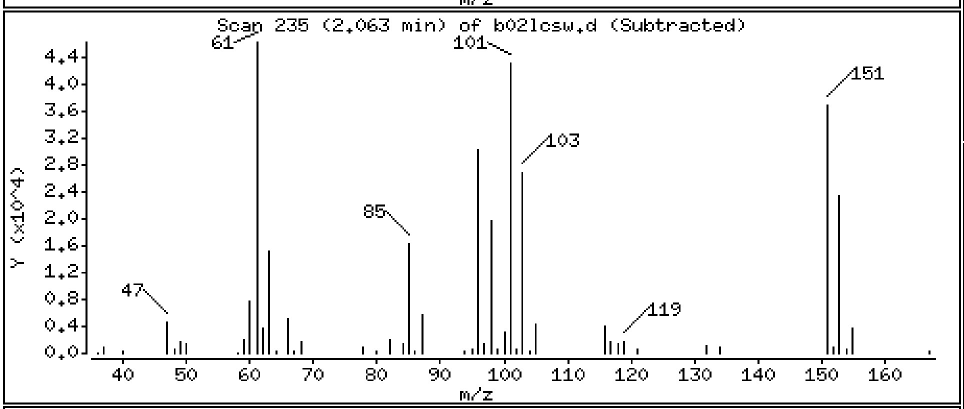
9 1,1,2trichlorotrifluoroethane

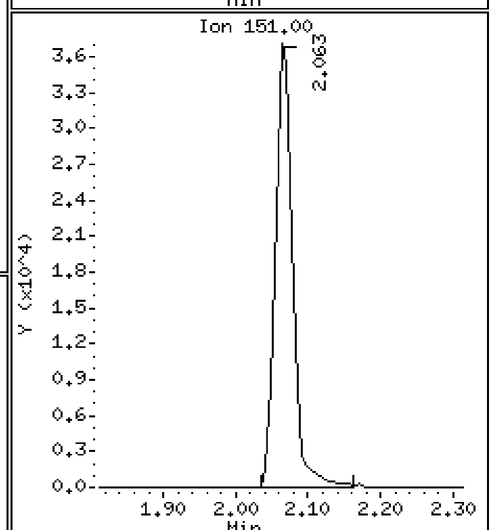
Concentration: 59.7 ppb

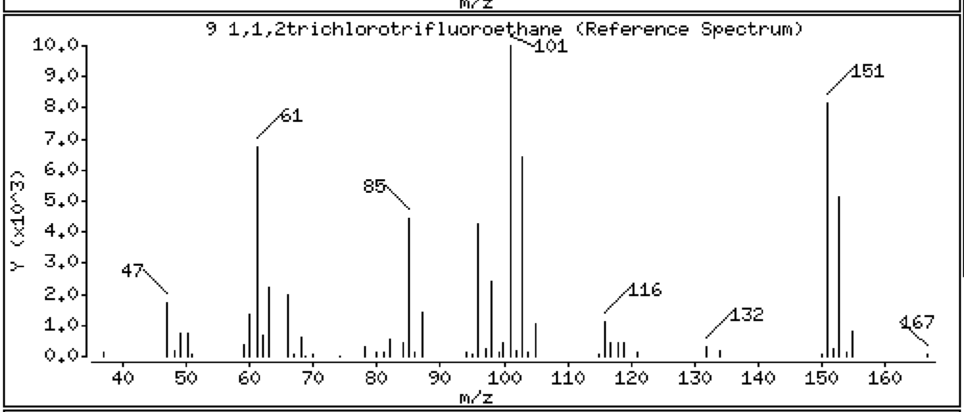
Review Code:

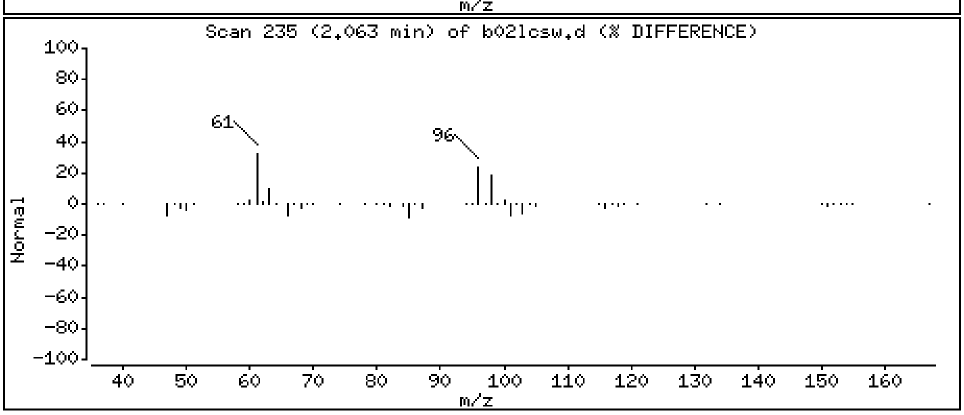












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

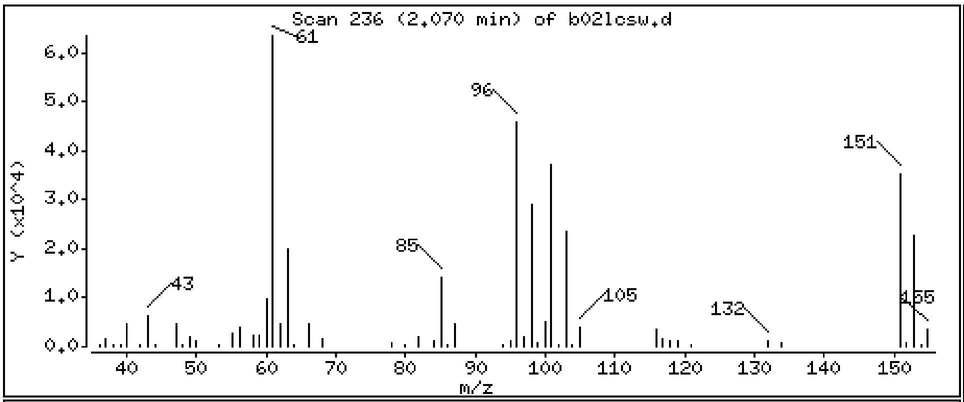
Column phase: DB-624

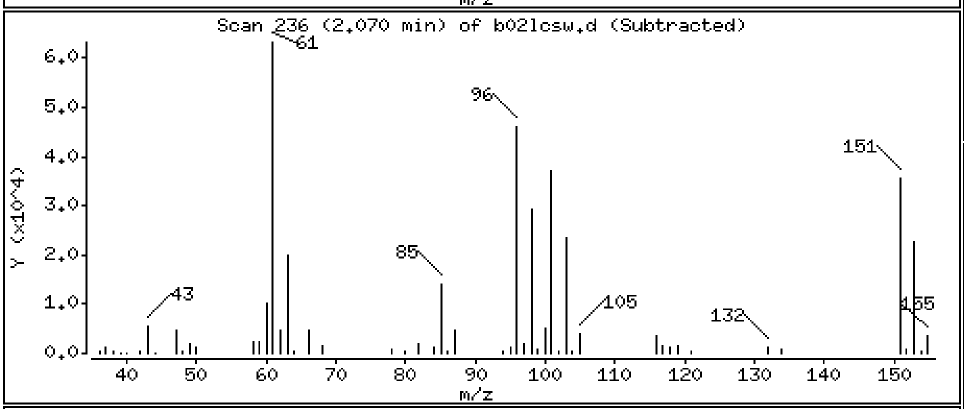
Column diameter: 0.18

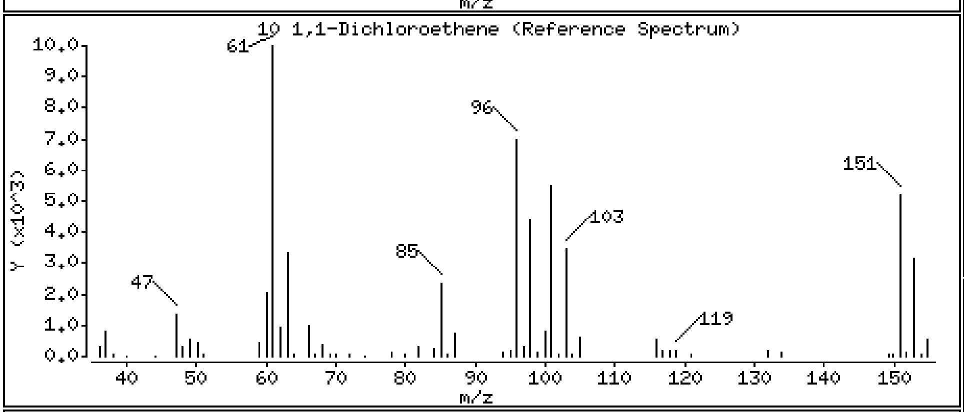
10 1,1-Dichloroethene

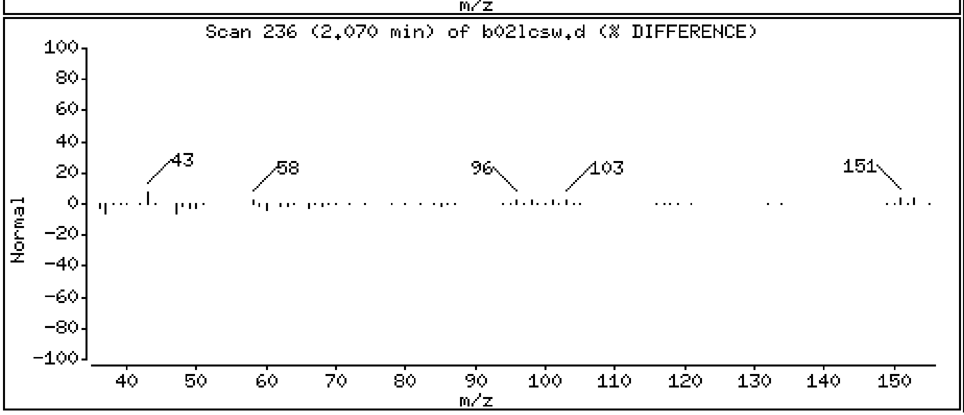
Concentration: 57.6 ppb

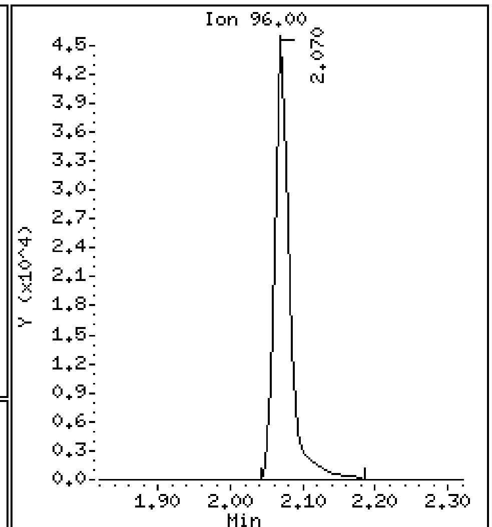
Review Code:

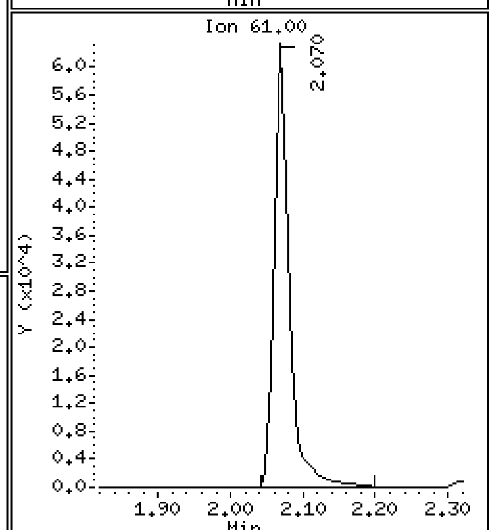


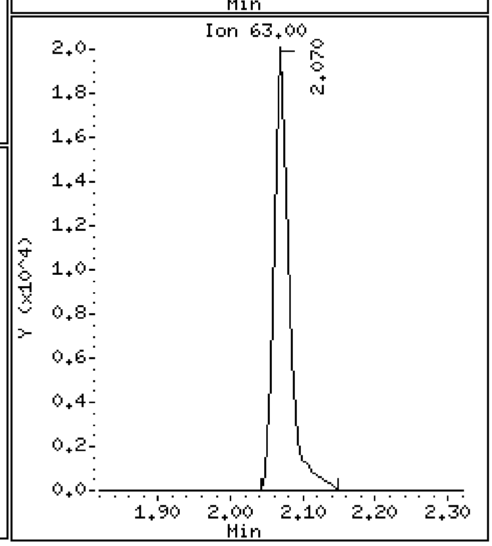












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

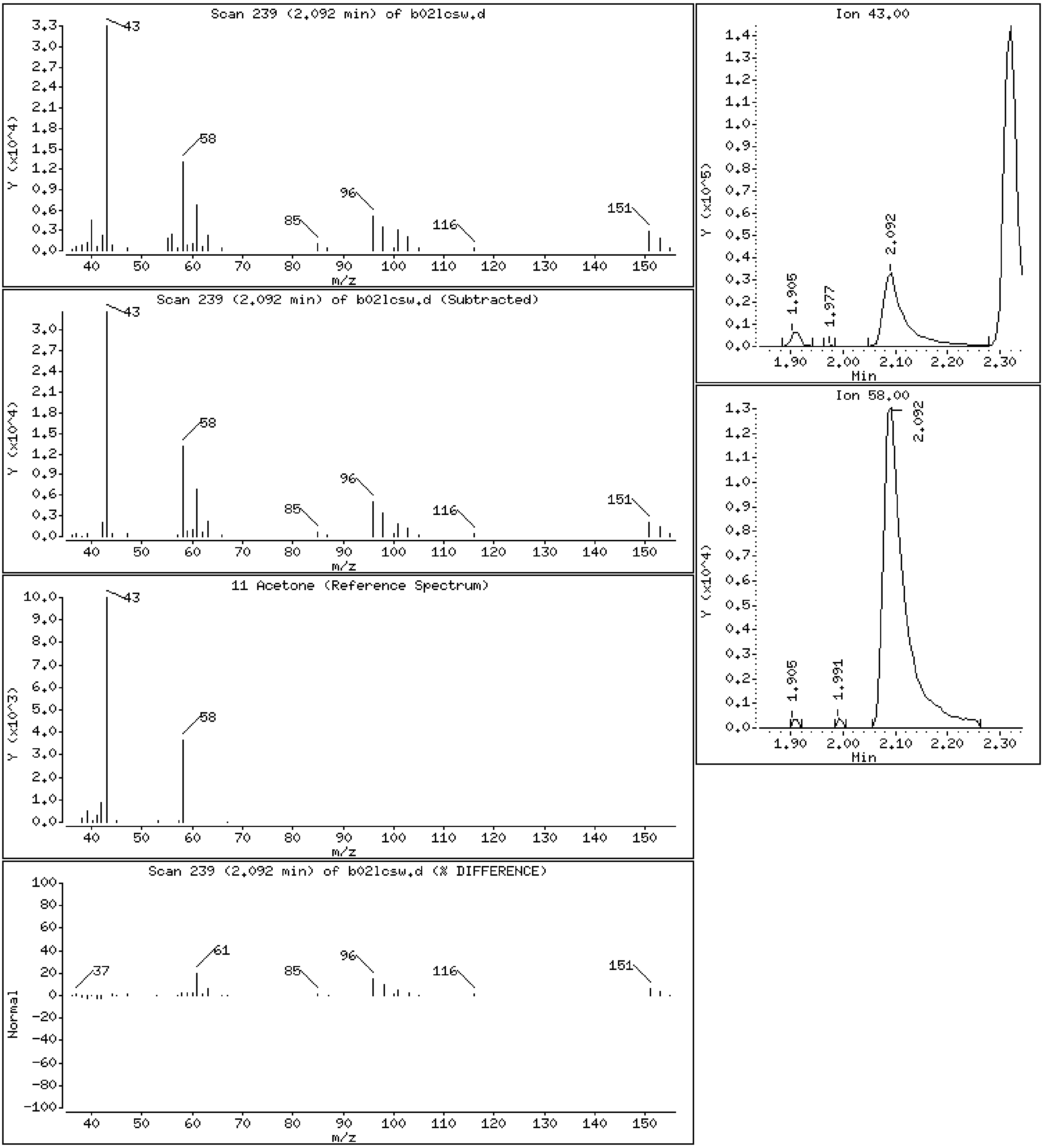
Column phase: DB-624

Column diameter: 0.18

11 Acetone

Concentration: 250 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

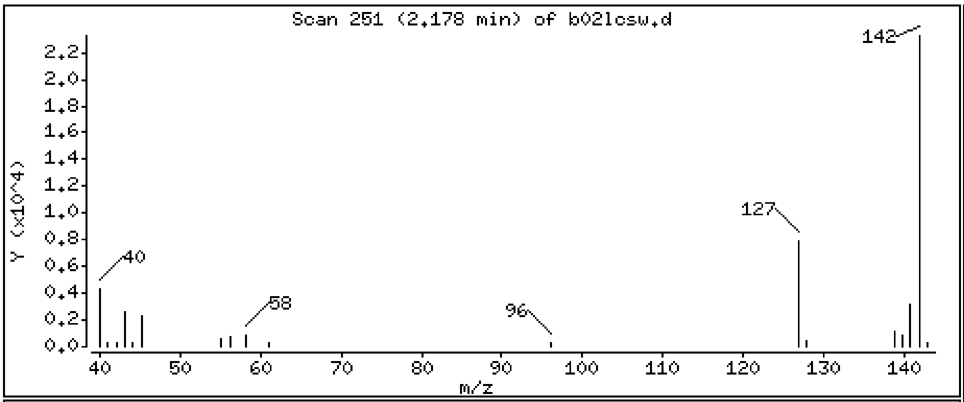
Column phase: DB-624

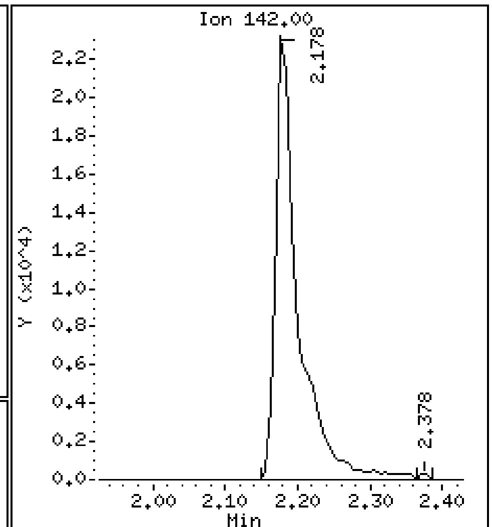
Column diameter: 0.18

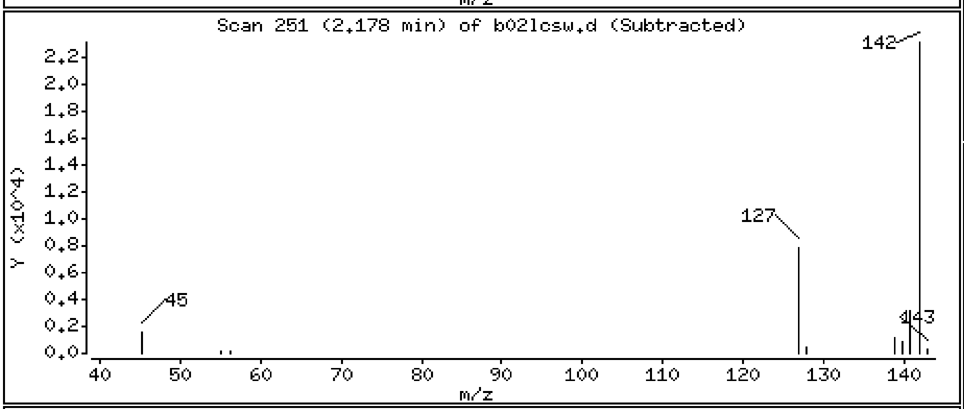
12 Iodomethane

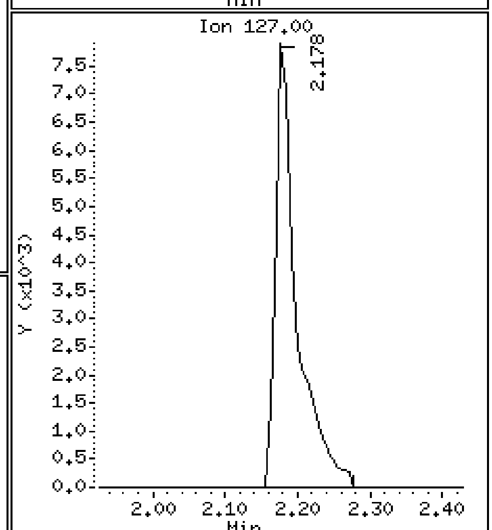
Concentration: 31.2 ppb

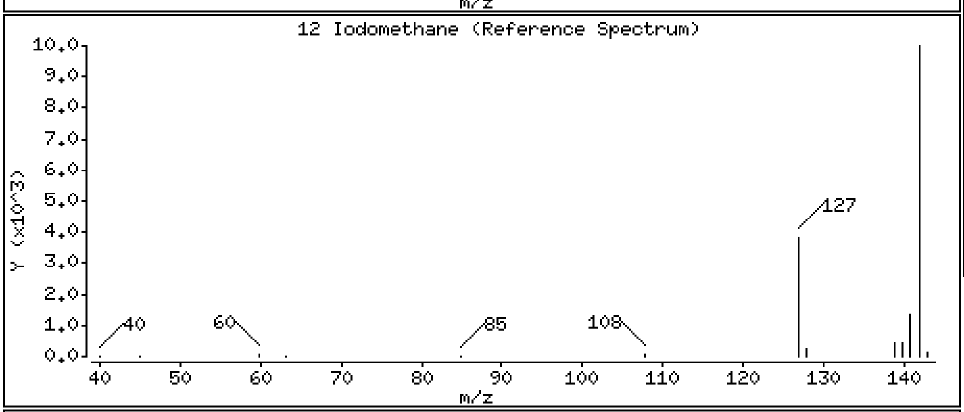
Review Code:

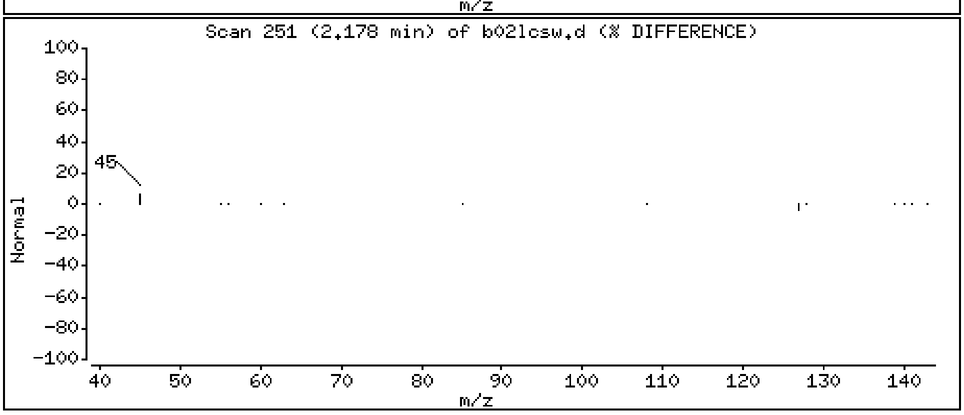












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d

Date : 24-JAN-2023 13:31

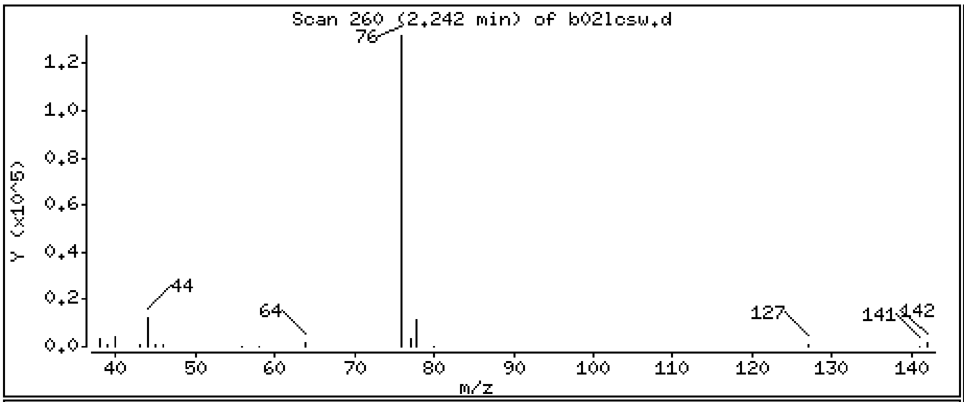
Client ID: Instrument: 50mvcb.i

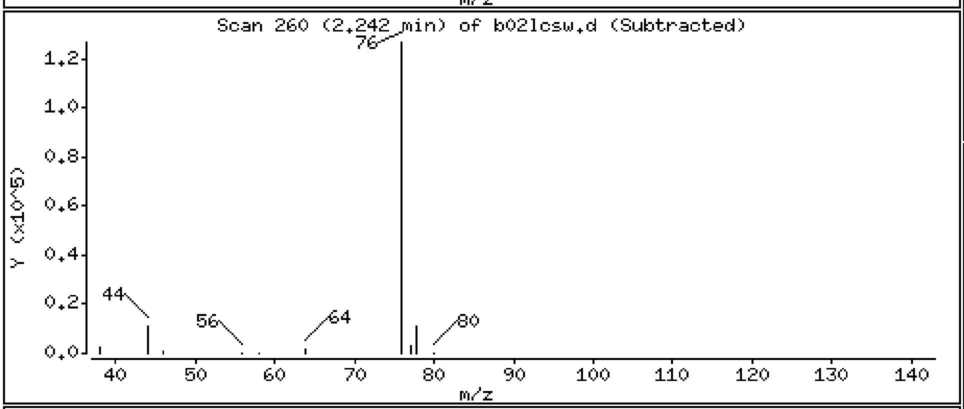
Sample Info: 3288023,335755:5

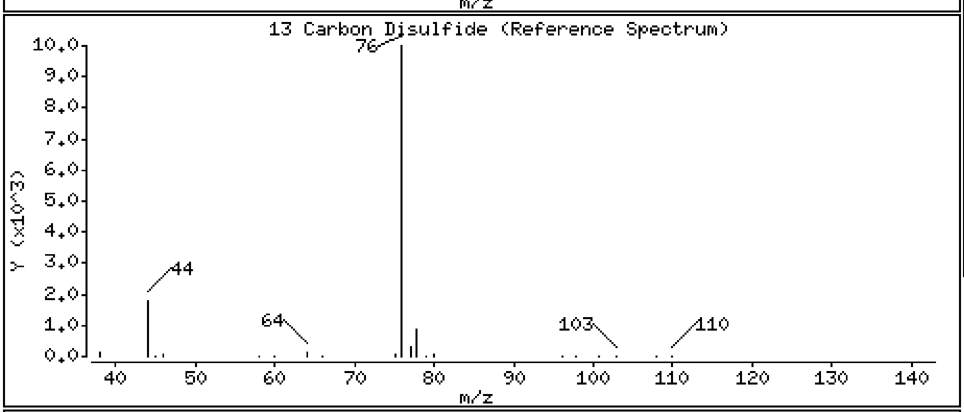
Purge Volume: 5.0 Operator: tkg

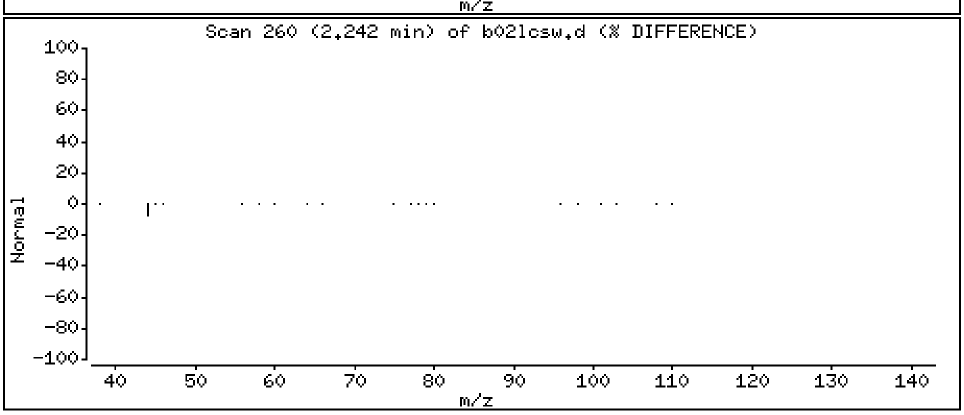
Column phase: DB-624 Column diameter: 0.18

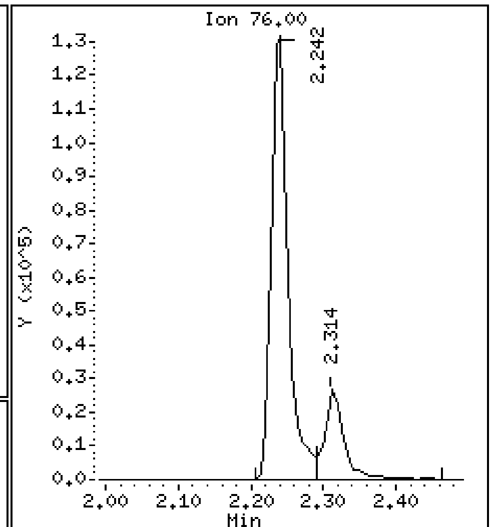
13 Carbon Disulfide Concentration: 56.4 ppb Review Code:

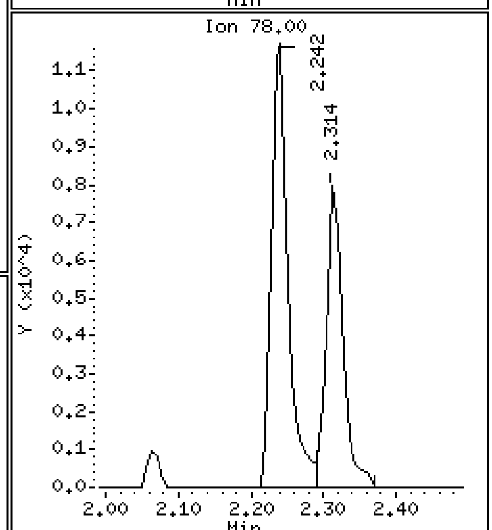












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

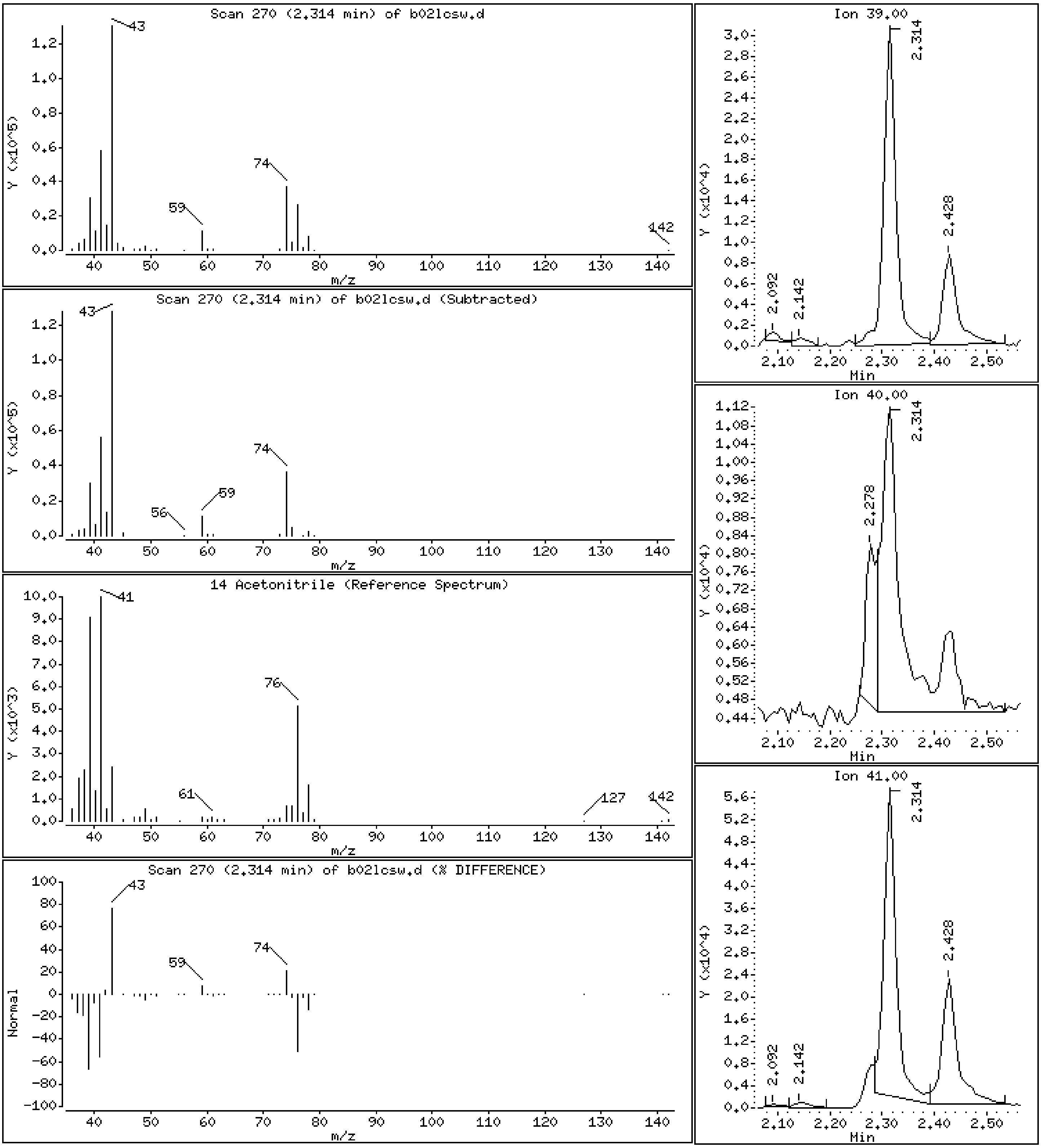
Column phase: DB-624

Column diameter: 0.18

14 Acetonitrile

Concentration: 289 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

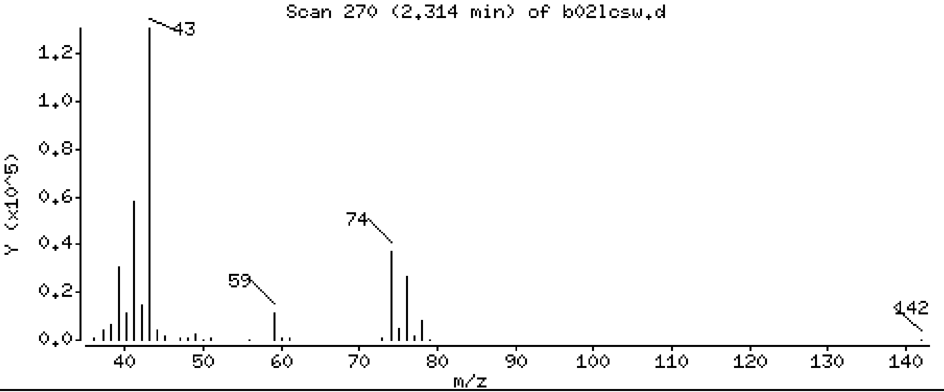
Column diameter: 0.18

15 allyl chloride

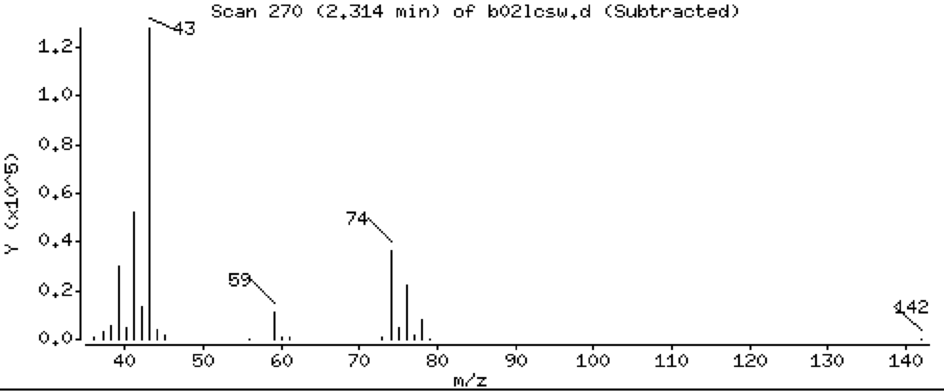
Concentration: 44.7 ppb

Review Code:

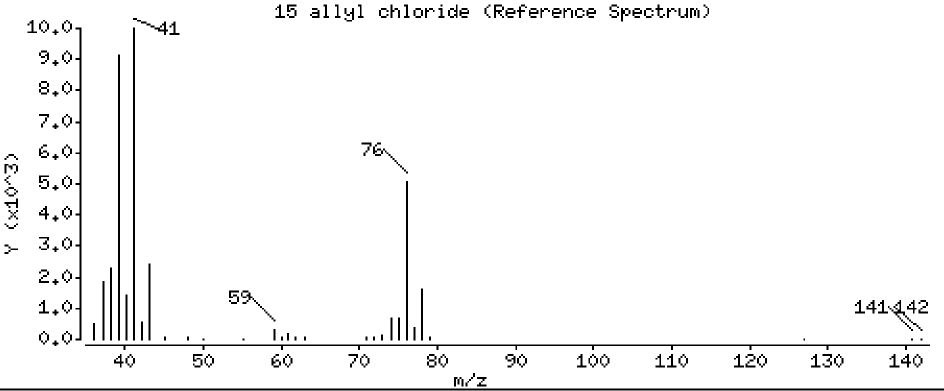
Scan 270 (2.314 min) of b02lcsw.d



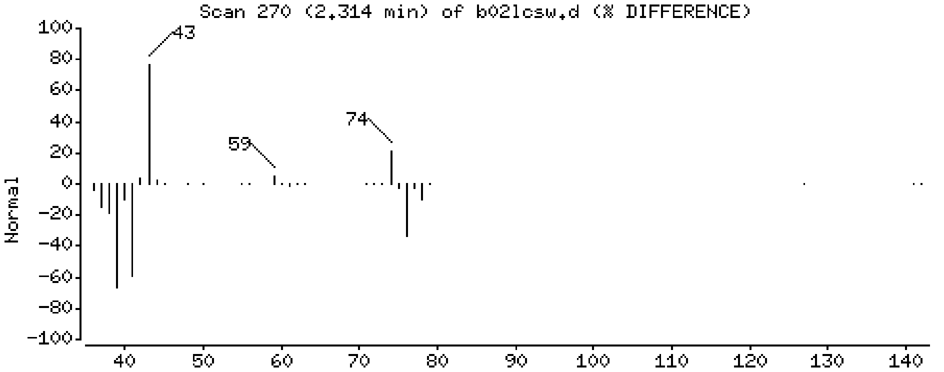
Scan 270 (2.314 min) of b02lcsw.d (Subtracted)



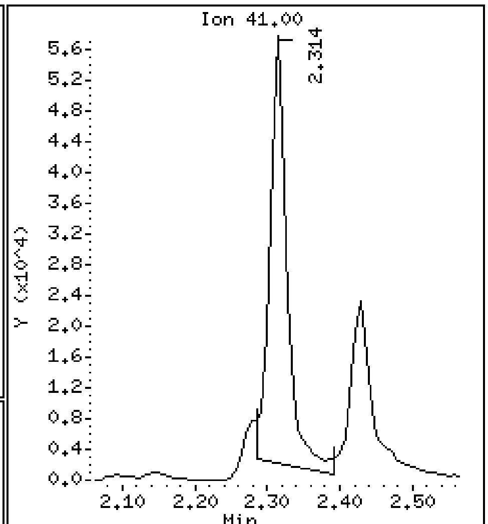
15 allyl chloride (Reference Spectrum)



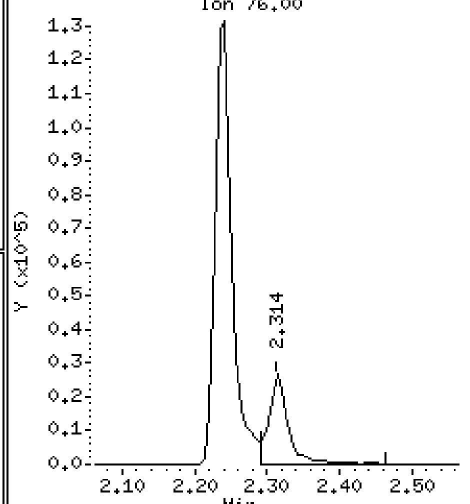
Scan 270 (2.314 min) of b02lcsw.d (% DIFFERENCE)



Ion 41.00



Ion 76.00



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Date : 24-JAN-2023 13:31

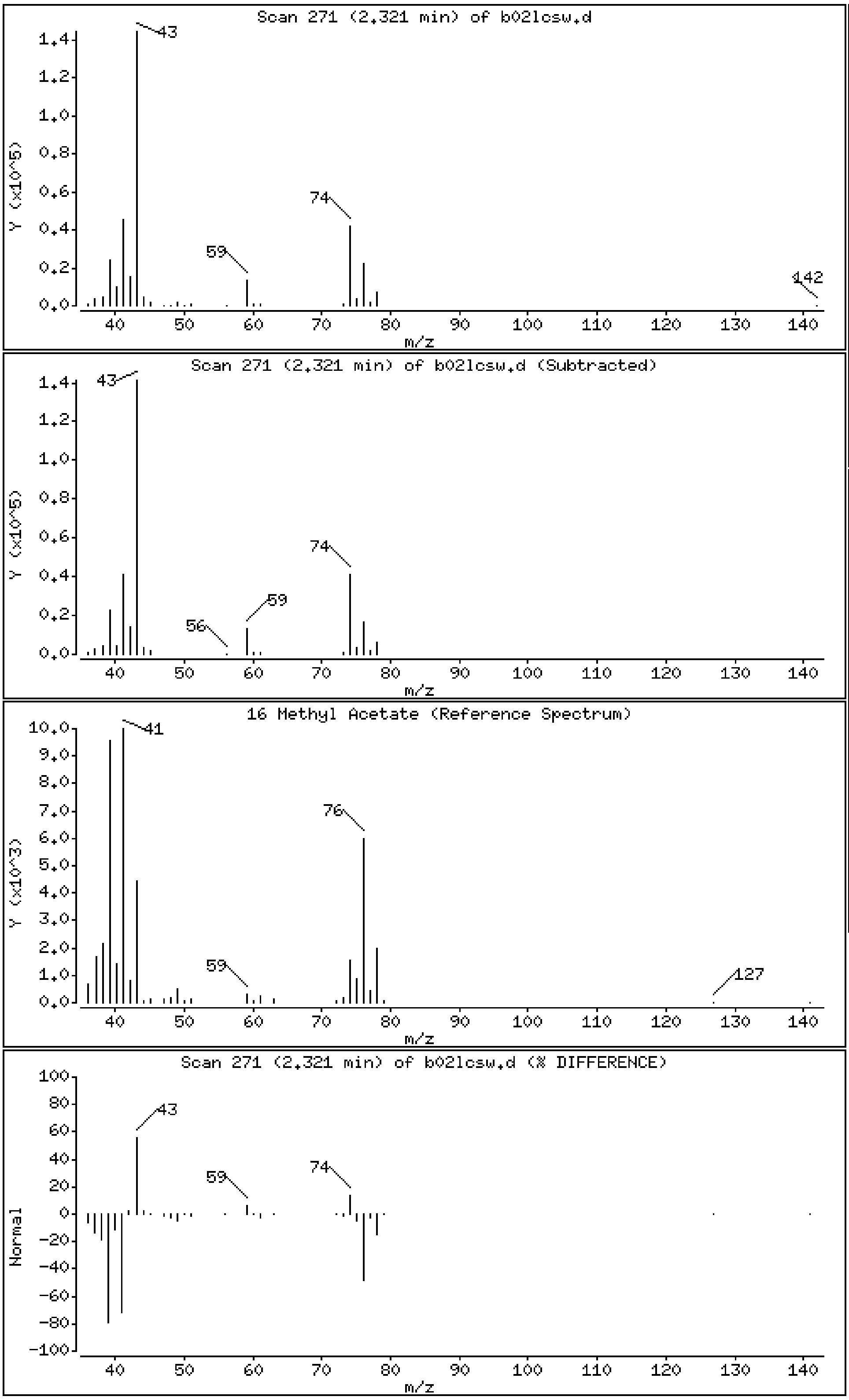
Client ID: Instrument: 50mvcb.i

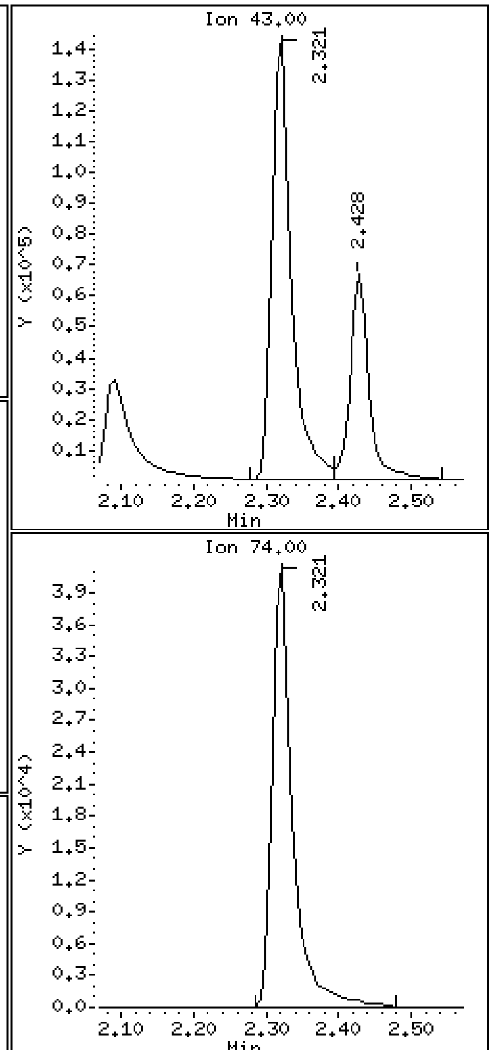
Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

16 Methyl Acetate Concentration: 267 ppb Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

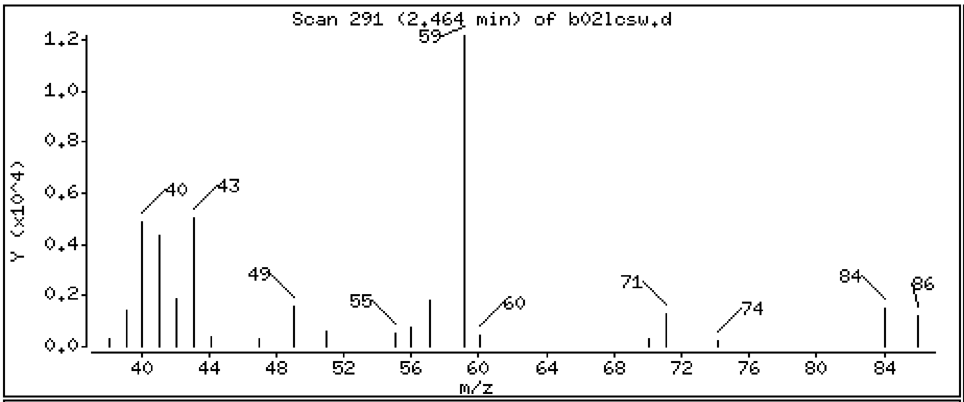
Column phase: DB-624

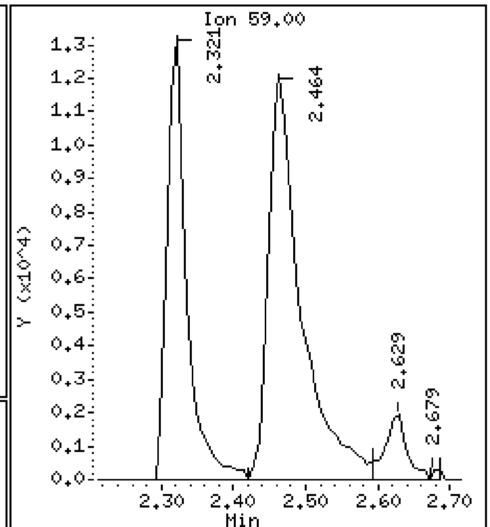
Column diameter: 0.18

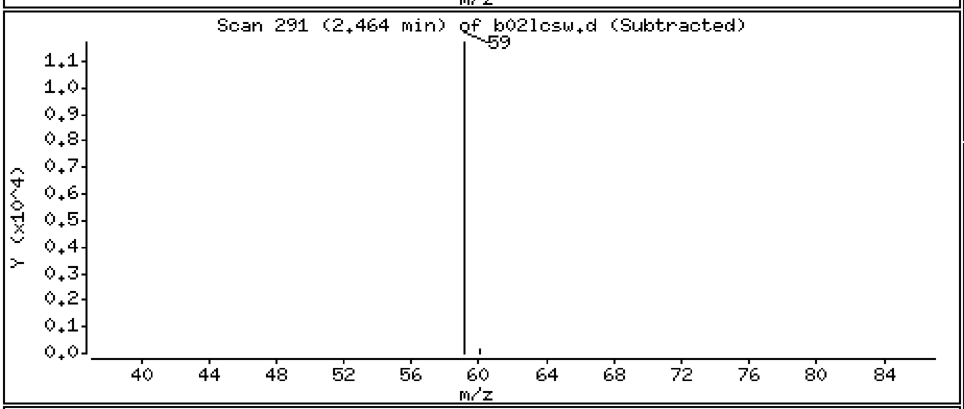
17 tert-Butyl Alcohol

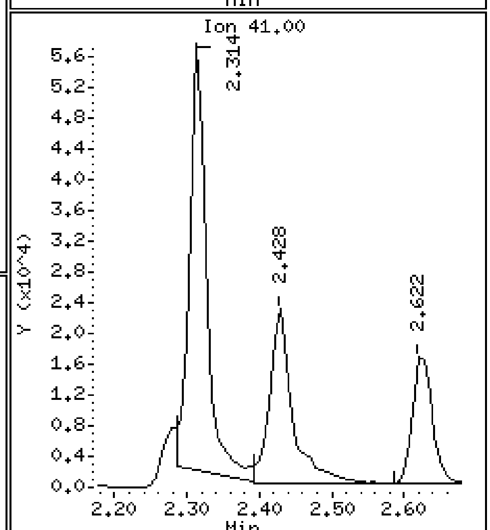
Concentration: 352 ppb

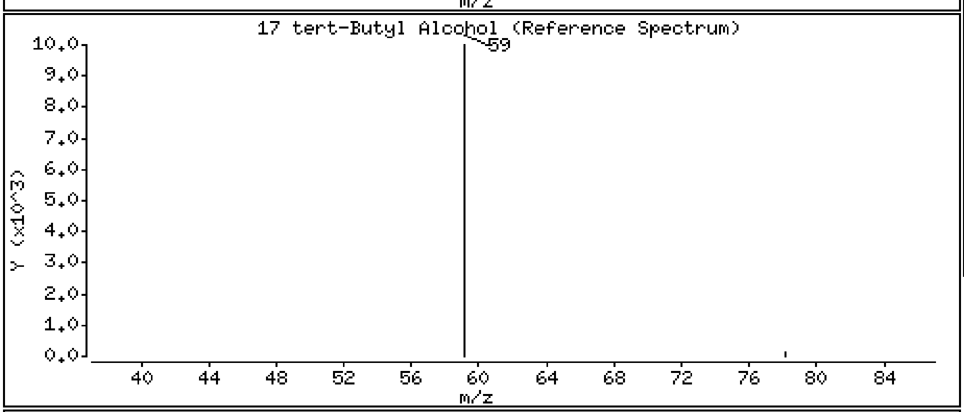
Review Code:

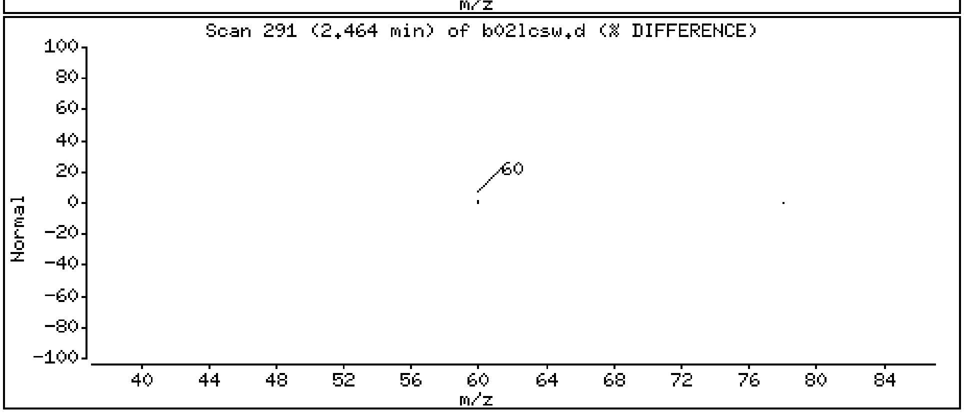












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

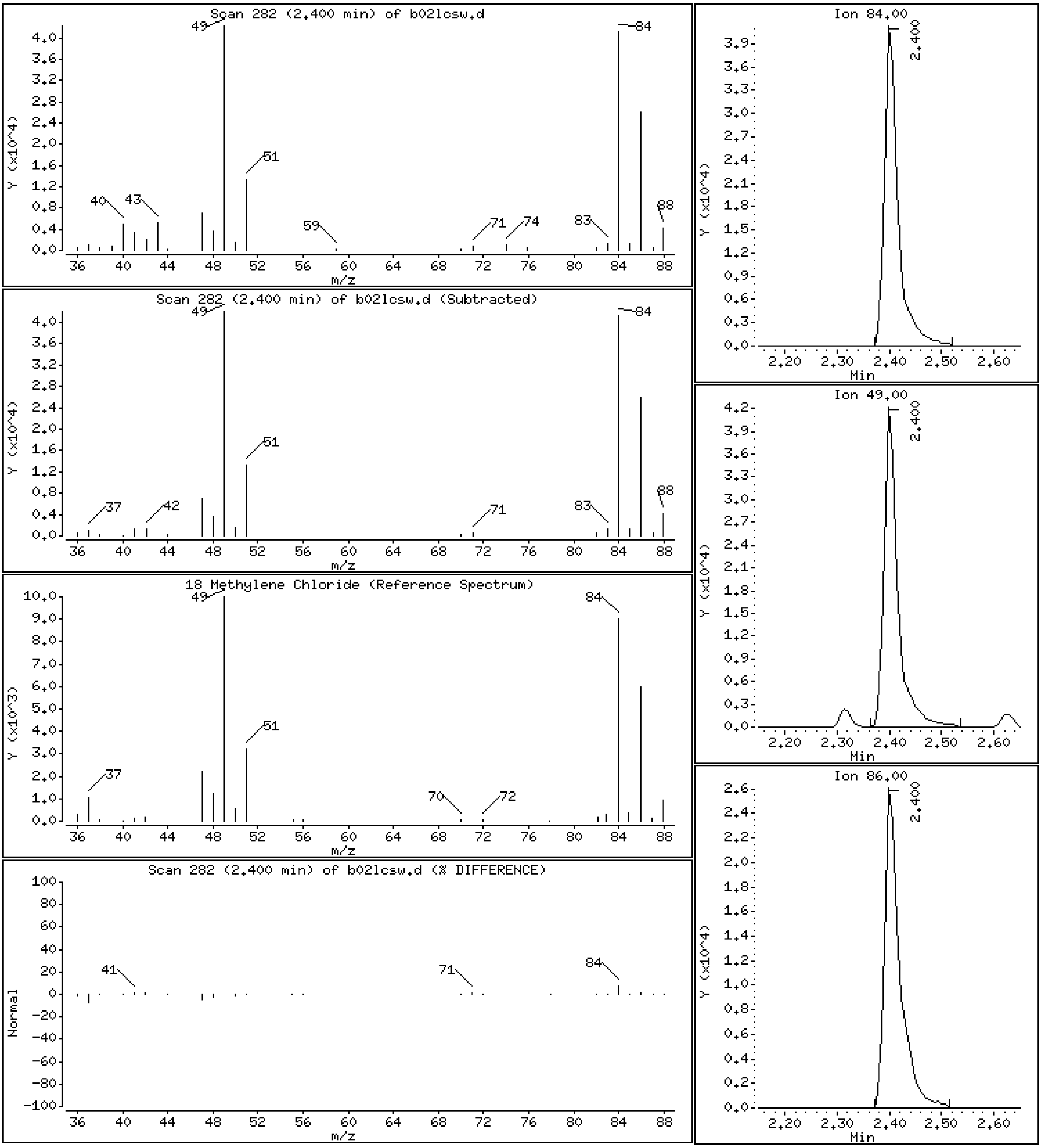
Column phase: DB-624

Column diameter: 0.18

18 Methylene Chloride

Concentration: 59.1 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b02lcsw.d

Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

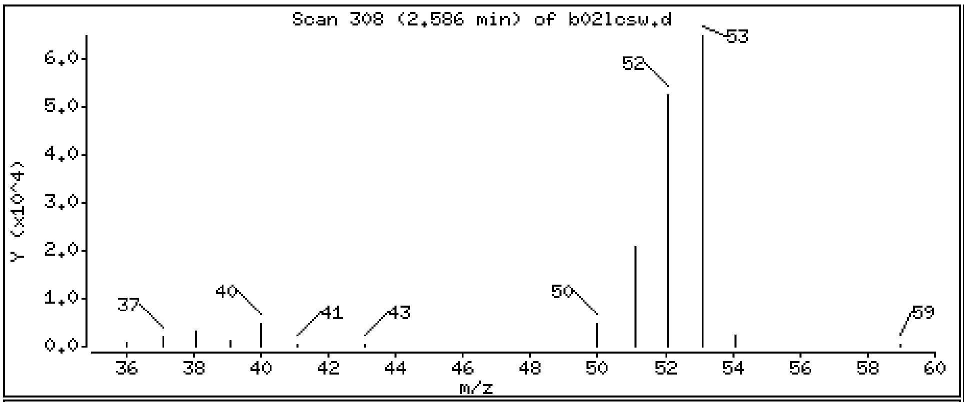
Column phase: DB-624

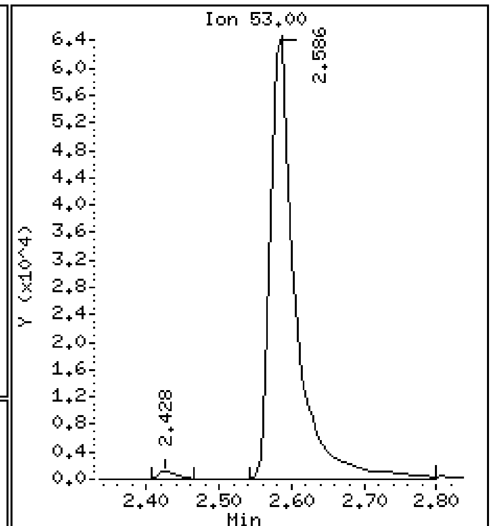
Column diameter: 0.18

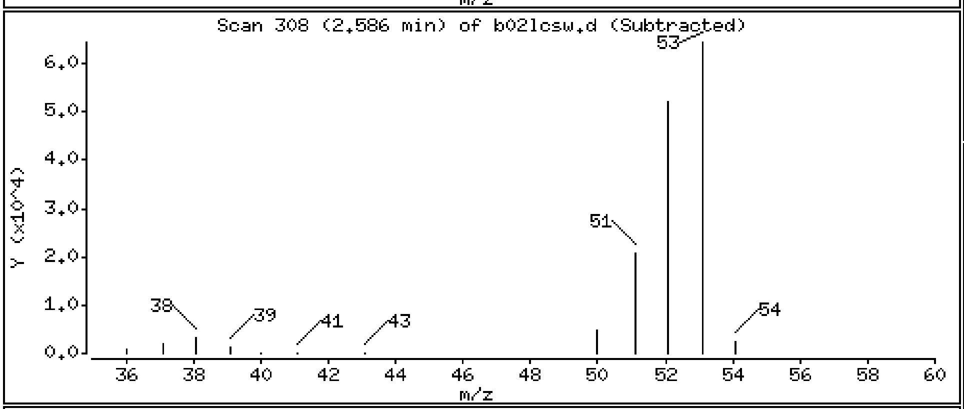
19 Acrylonitrile

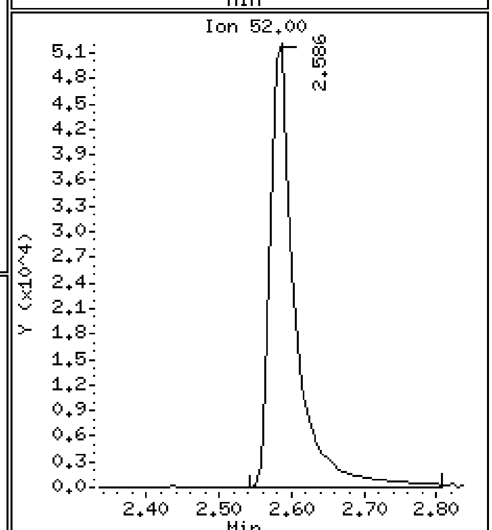
Concentration: 336 ppb

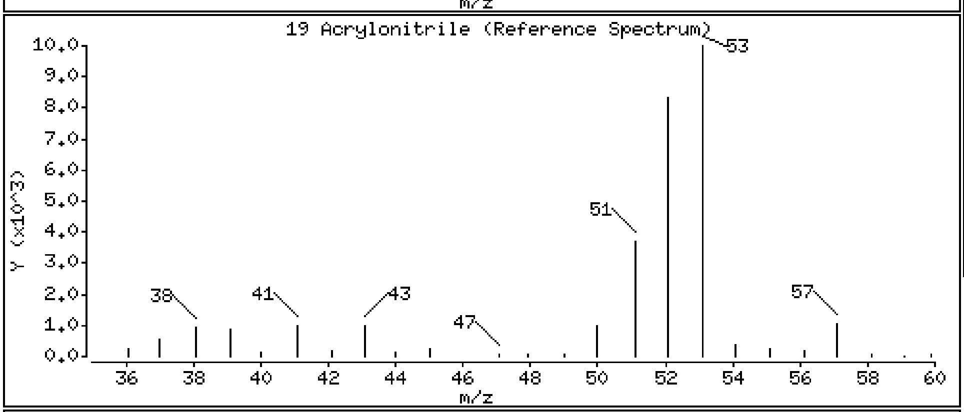
Review Code:

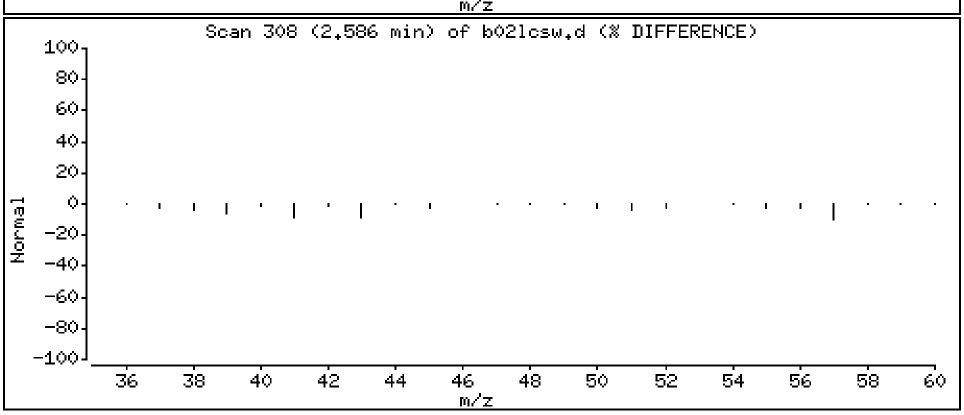












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d Page 24

Date : 24-JAN-2023 13:31

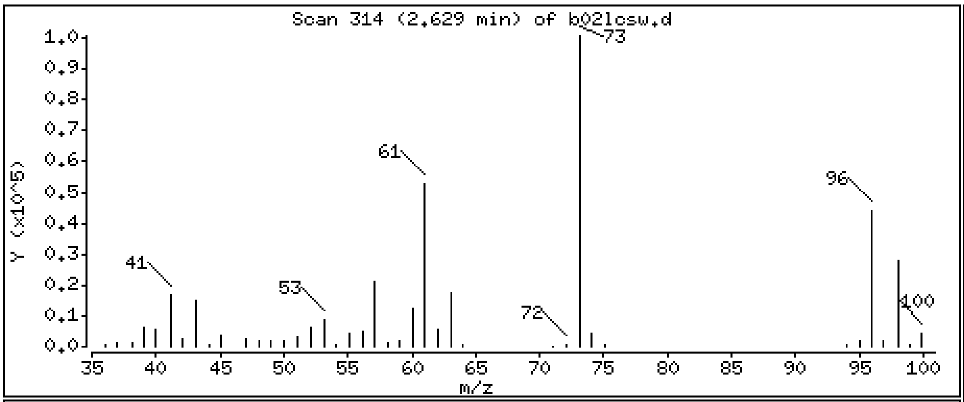
Client ID: Instrument: 50mvcb.i

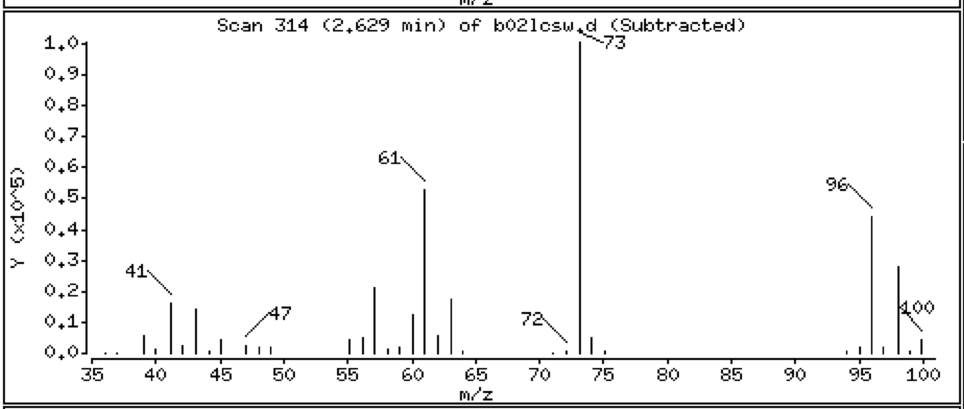
Sample Info: 3288023,335755:5

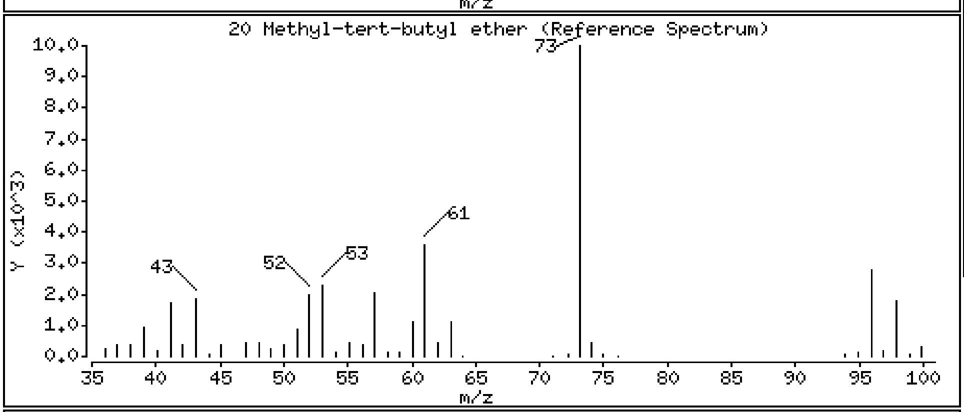
Purge Volume: 5.0 Operator: tkg

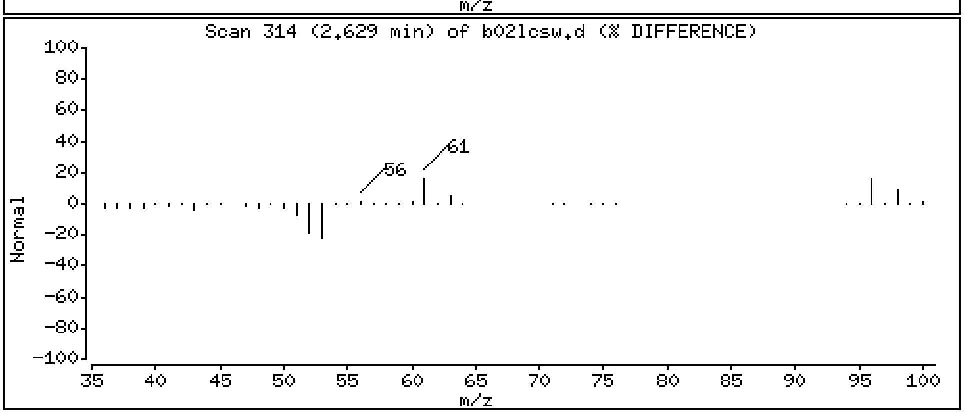
Column phase: DB-624 Column diameter: 0.18

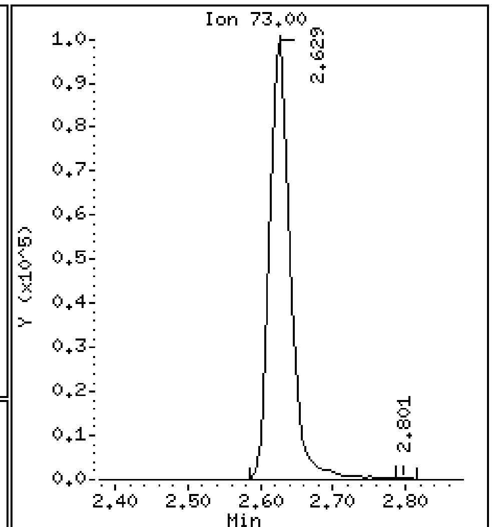
20 Methyl-tert-butyl ether Concentration: 55.3 ppb Review Code:

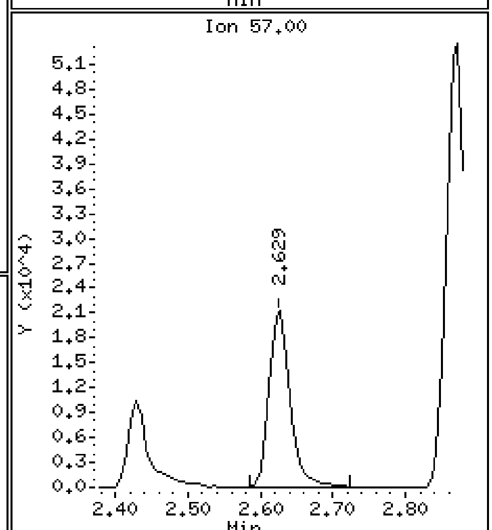












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

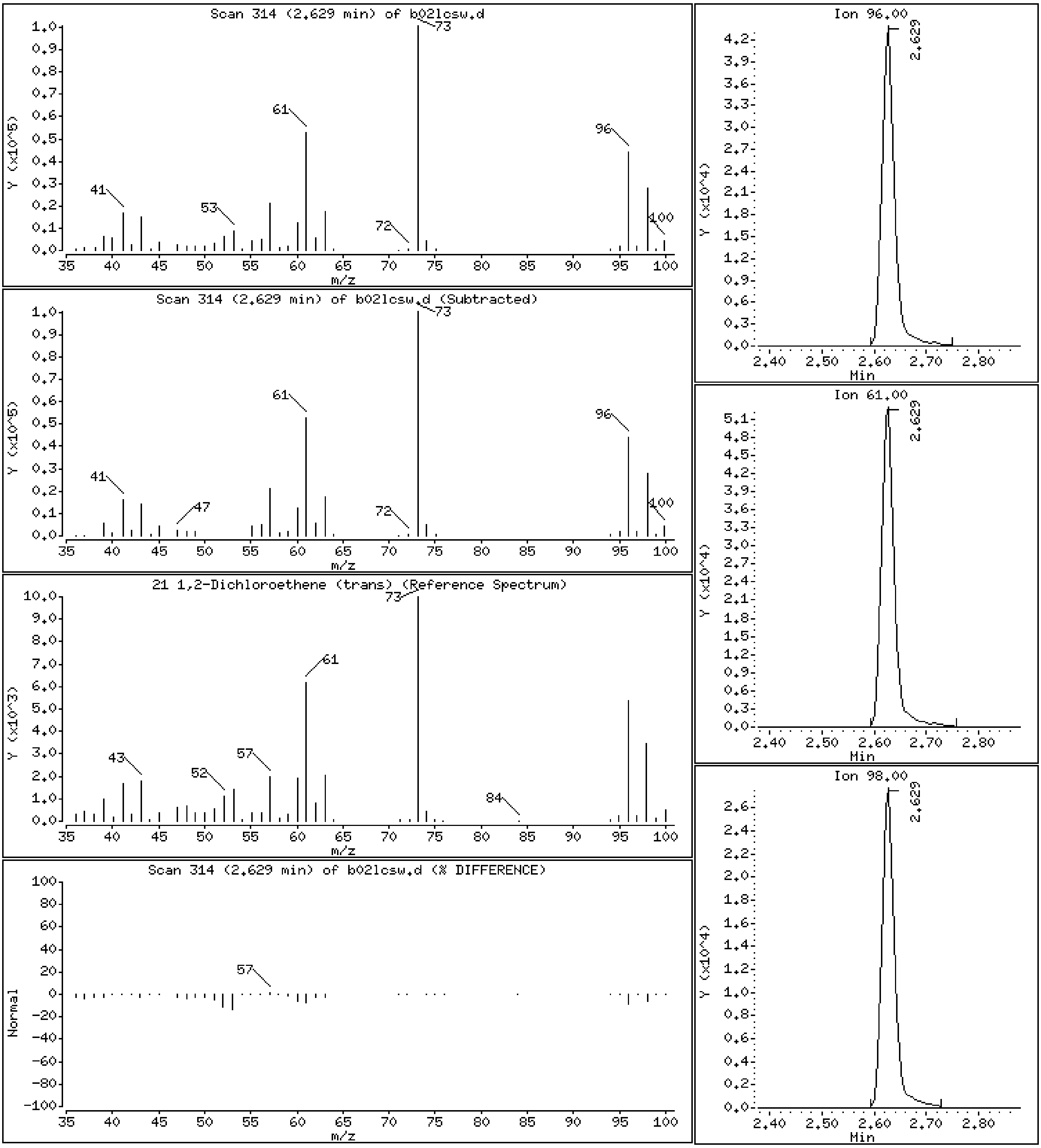
Column phase: DB-624

Column diameter: 0.18

21 1,2-Dichloroethene (trans)

Concentration: 56.3 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

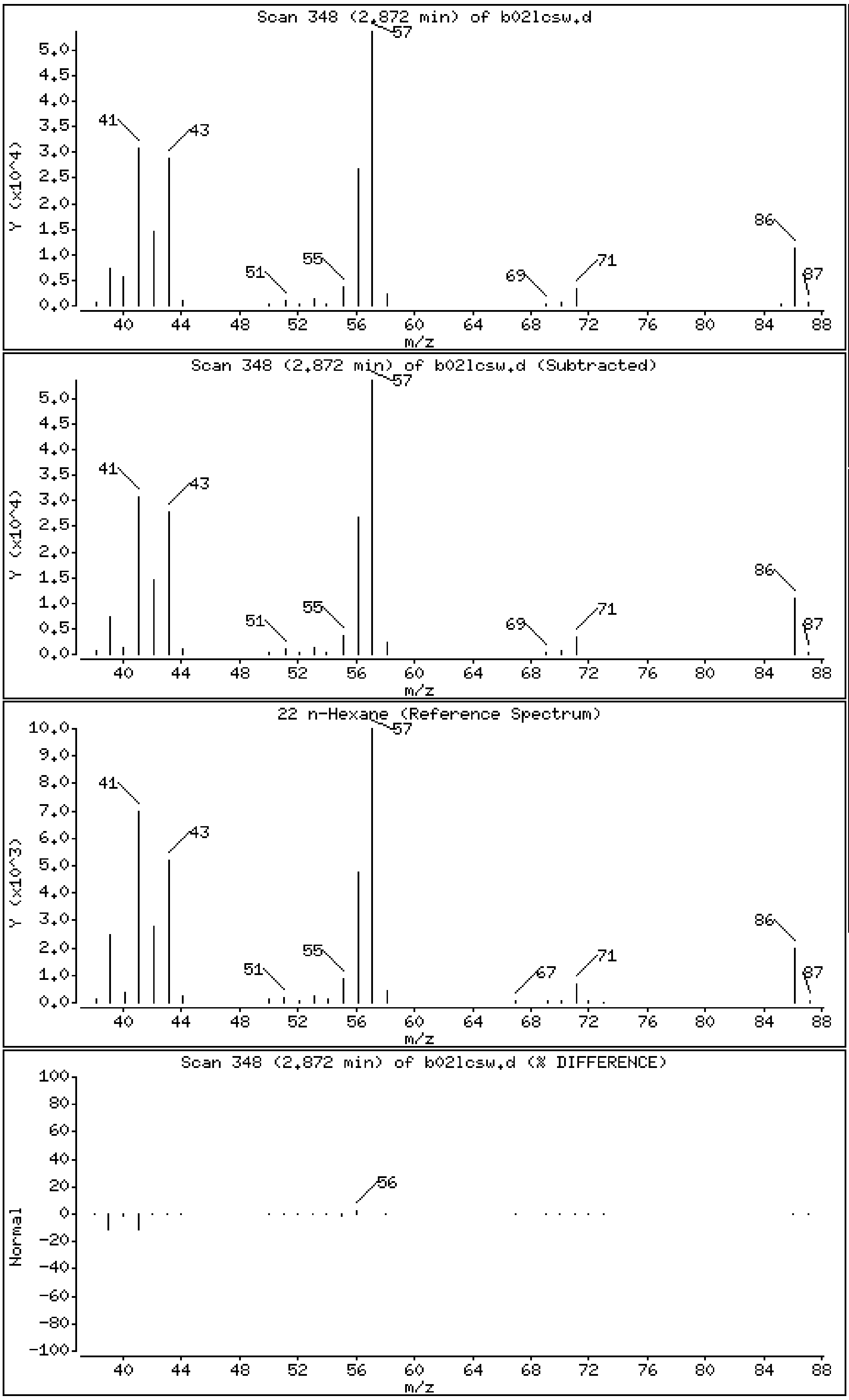
Column phase: DB-624

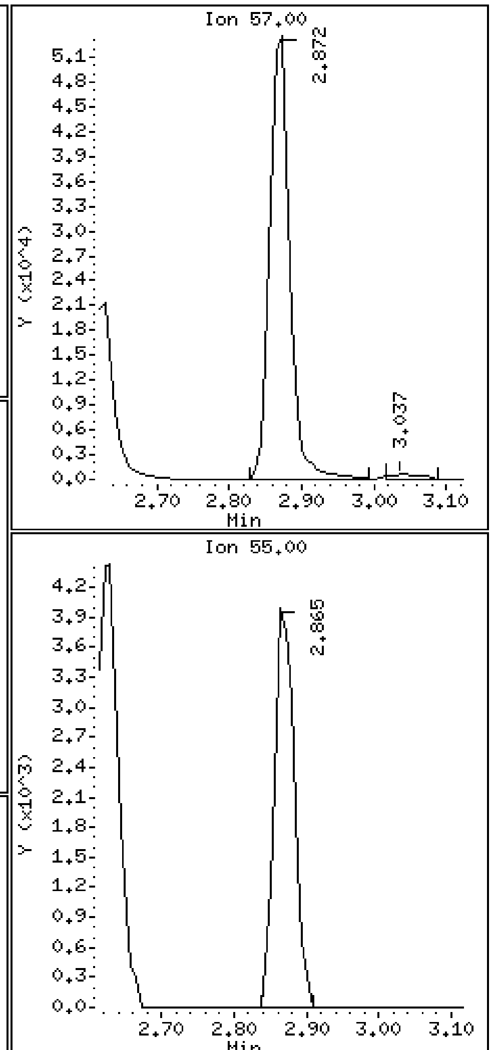
Column diameter: 0.18

22 n-Hexane

Concentration: 64.0 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

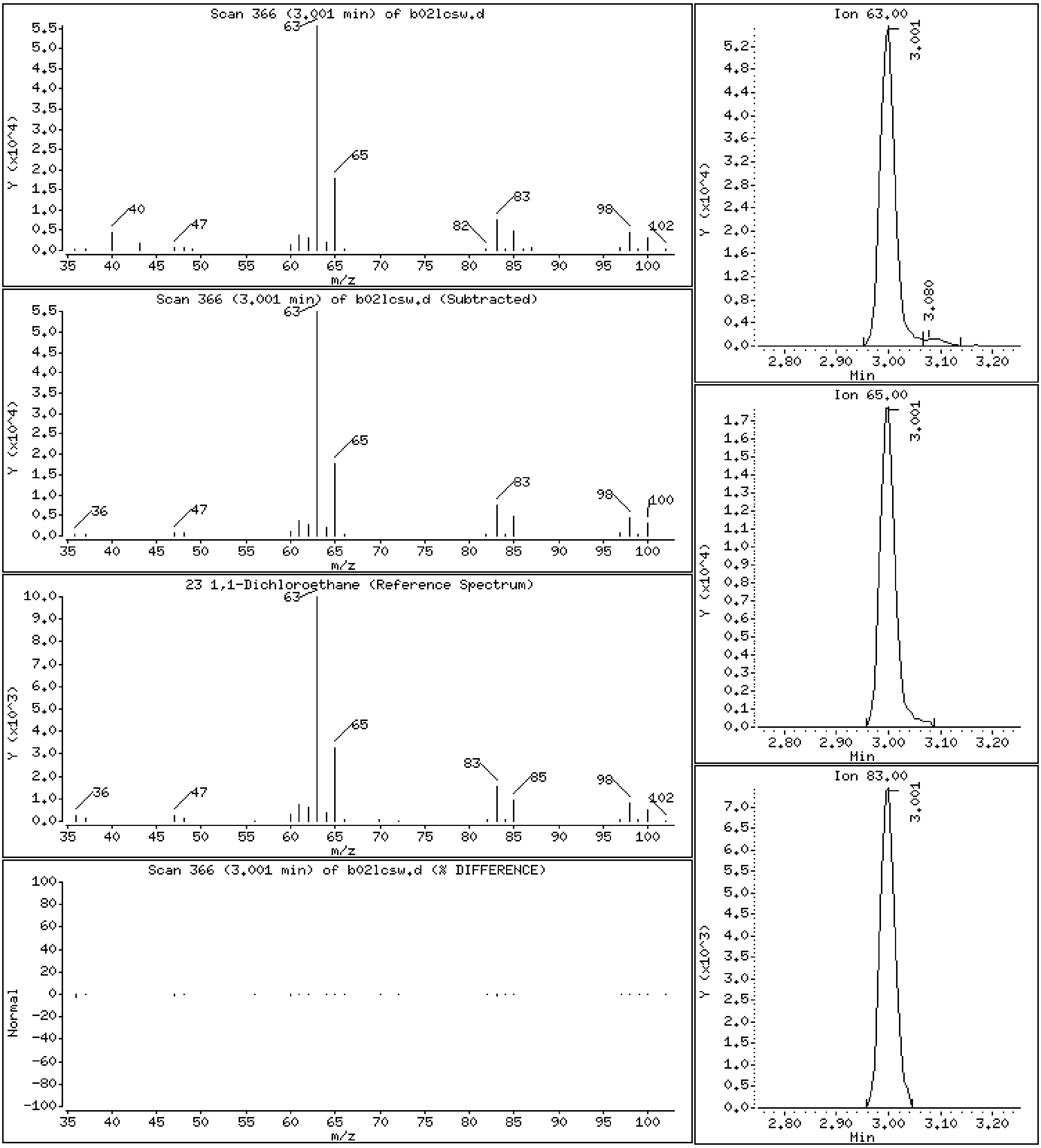
Column phase: DB-624

Column diameter: 0.18

23 1,1-Dichloroethane

Concentration: 50.5 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

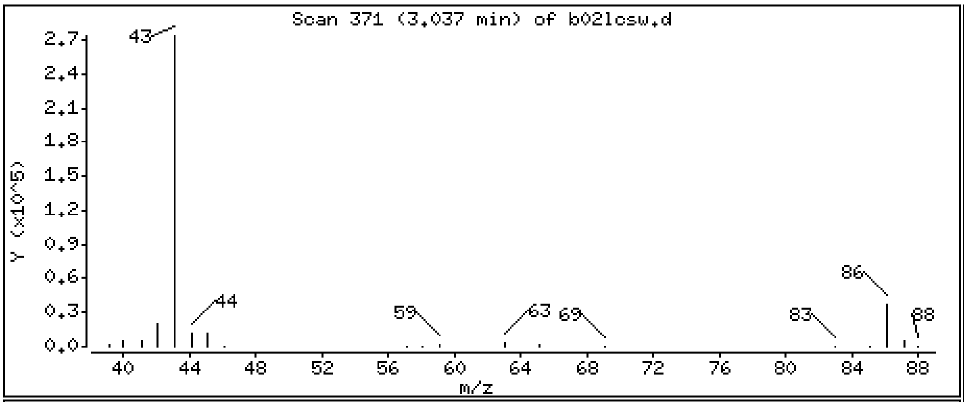
Column phase: DB-624

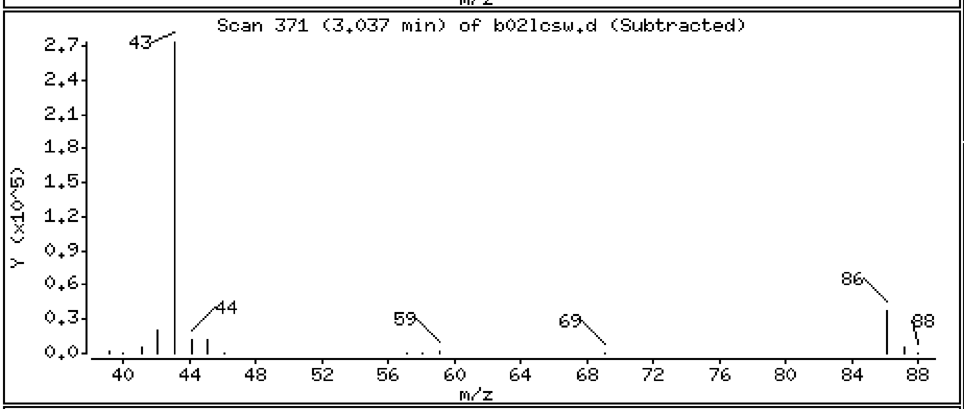
Column diameter: 0.18

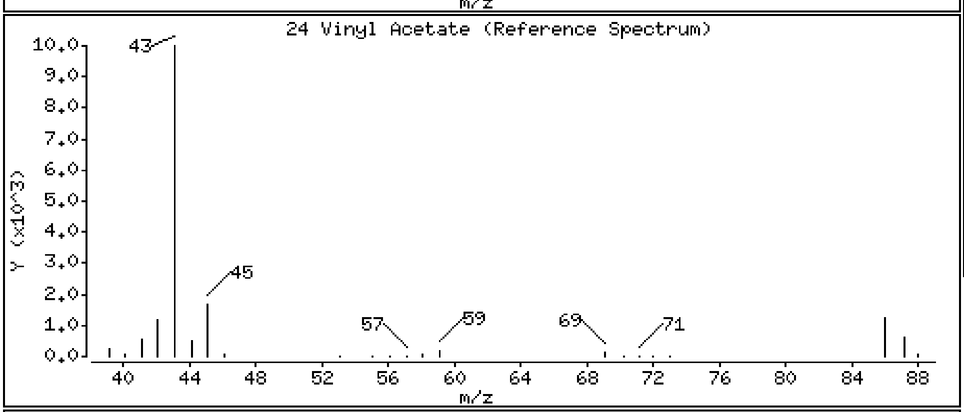
24 Vinyl Acetate

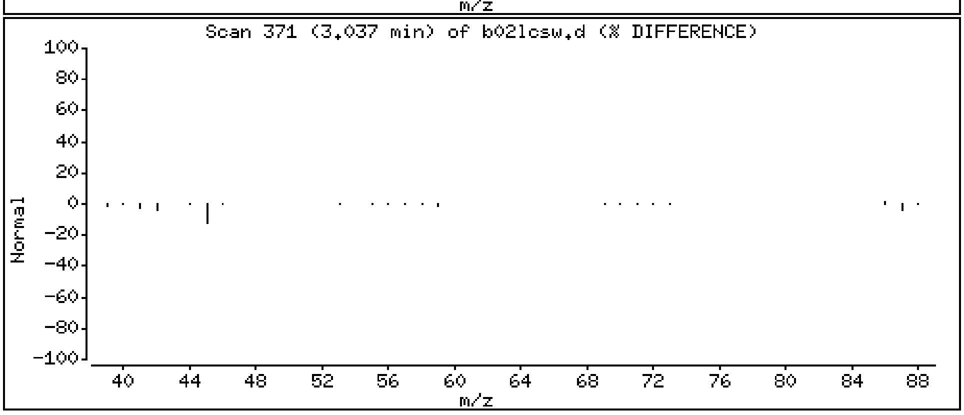
Concentration: 258 ppb

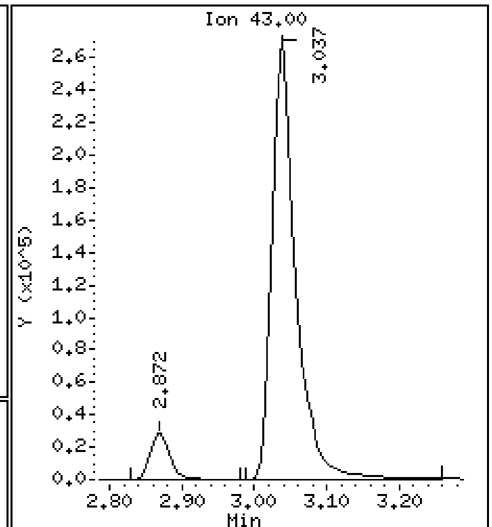
Review Code:

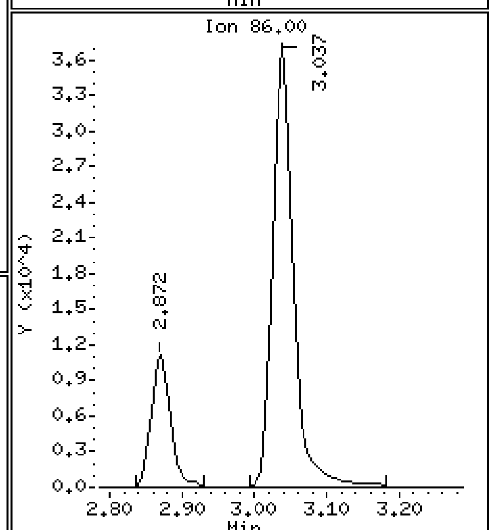












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

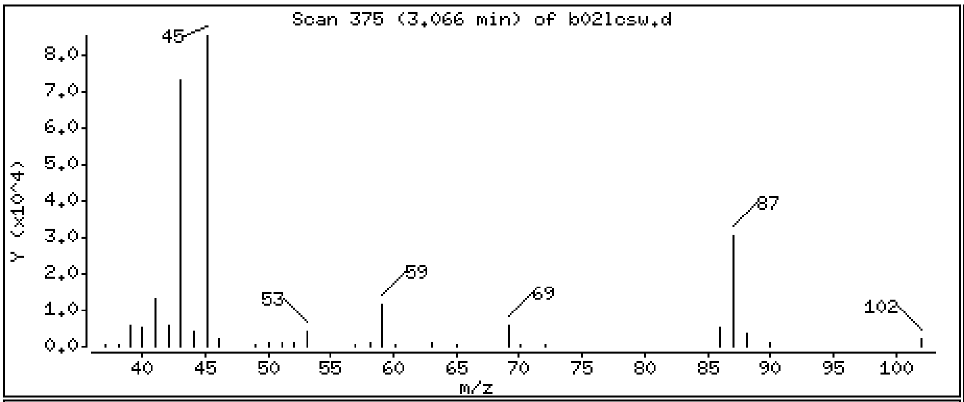
Column phase: DB-624

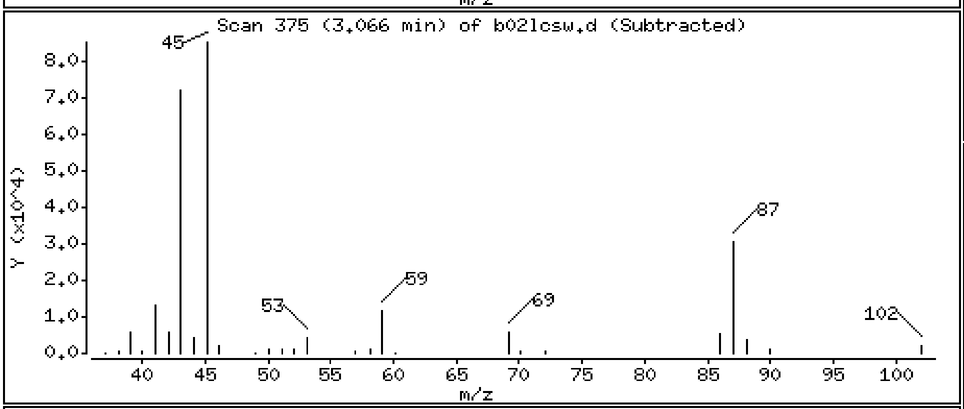
Column diameter: 0.18

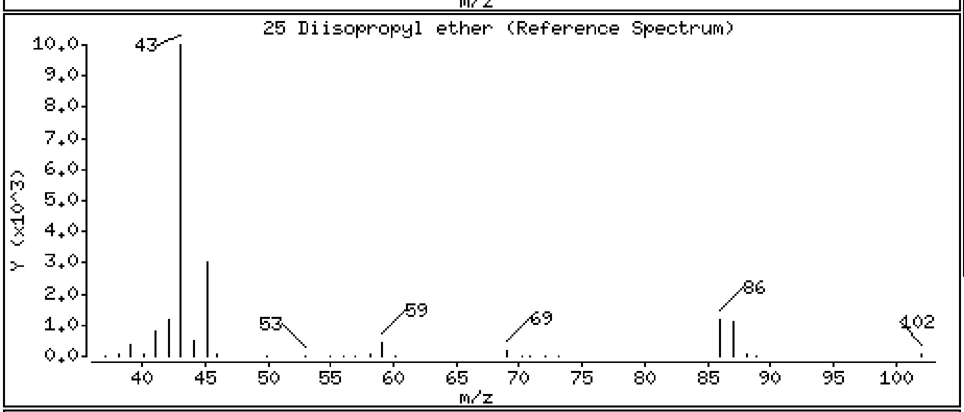
25 Diisopropyl ether

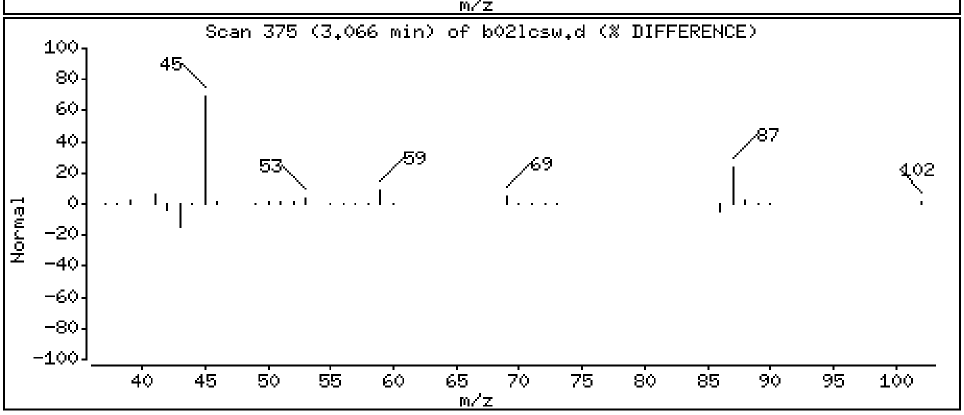
Concentration: 52.7 ppb

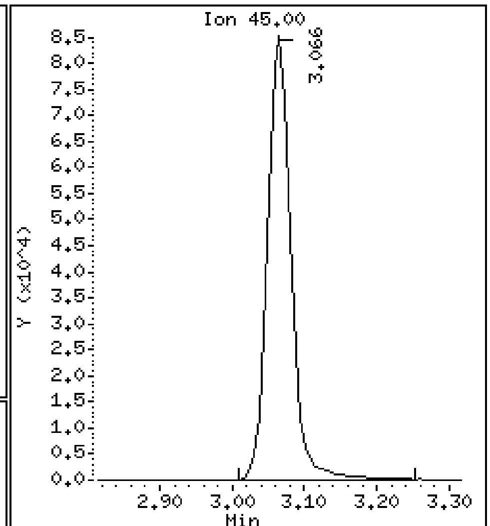
Review Code:

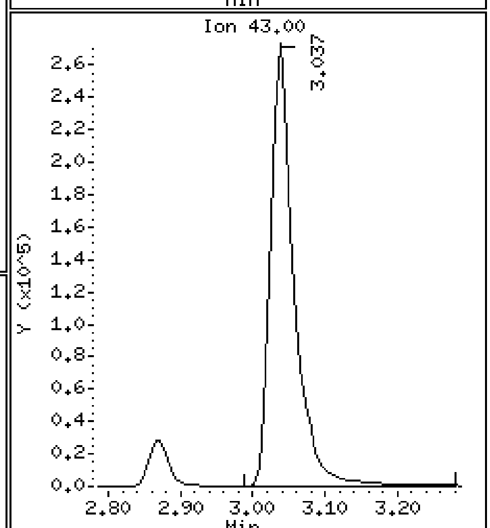












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

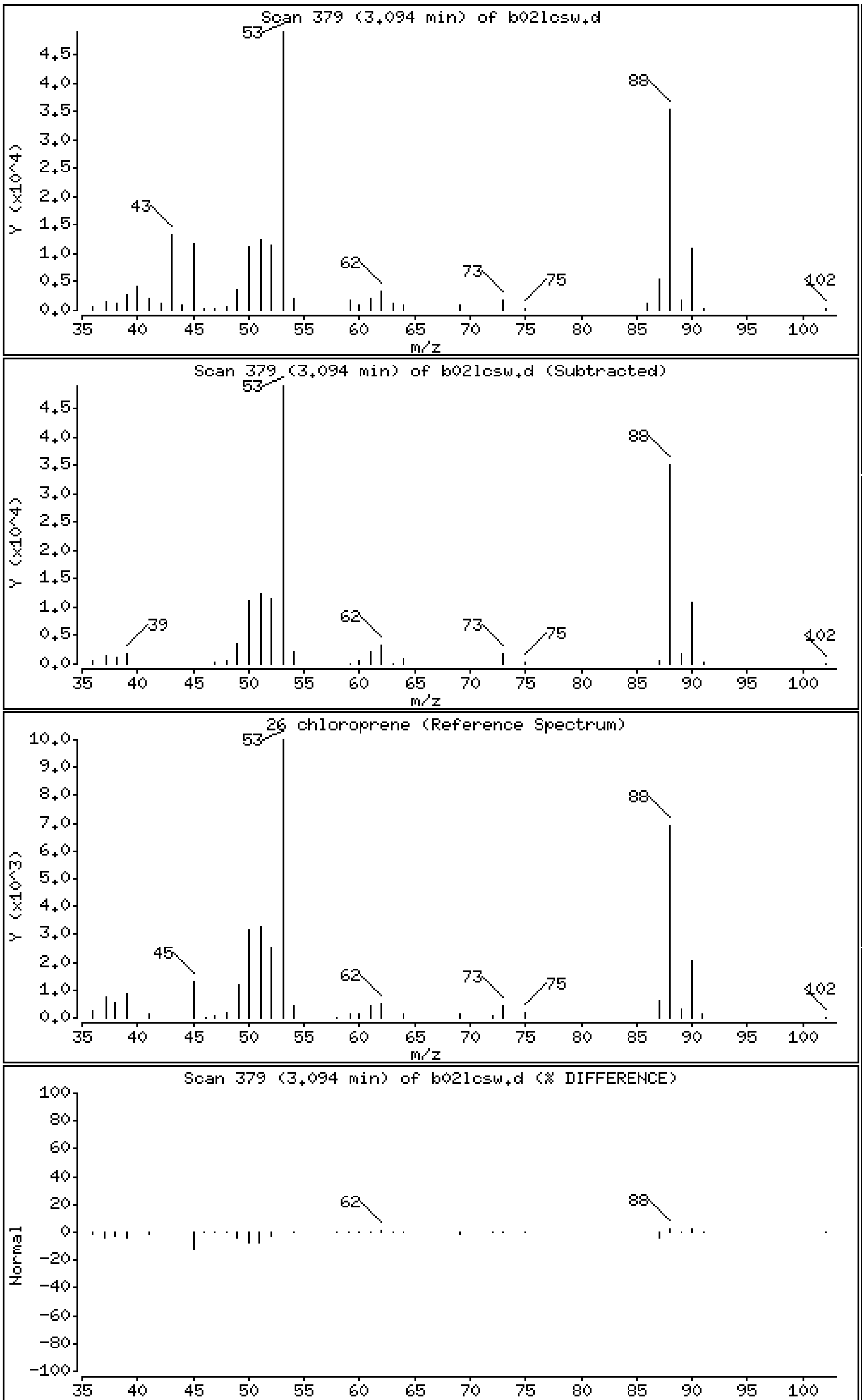
Column phase: DB-624

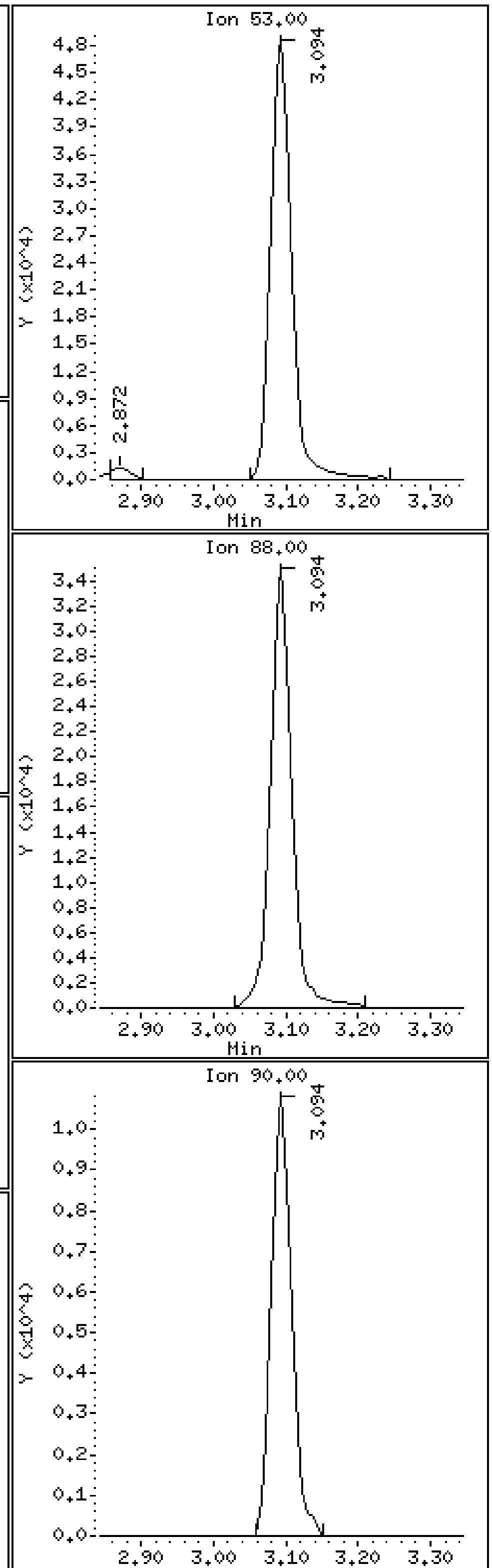
Column diameter: 0.18

26 chloroprene

Concentration: 55.9 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

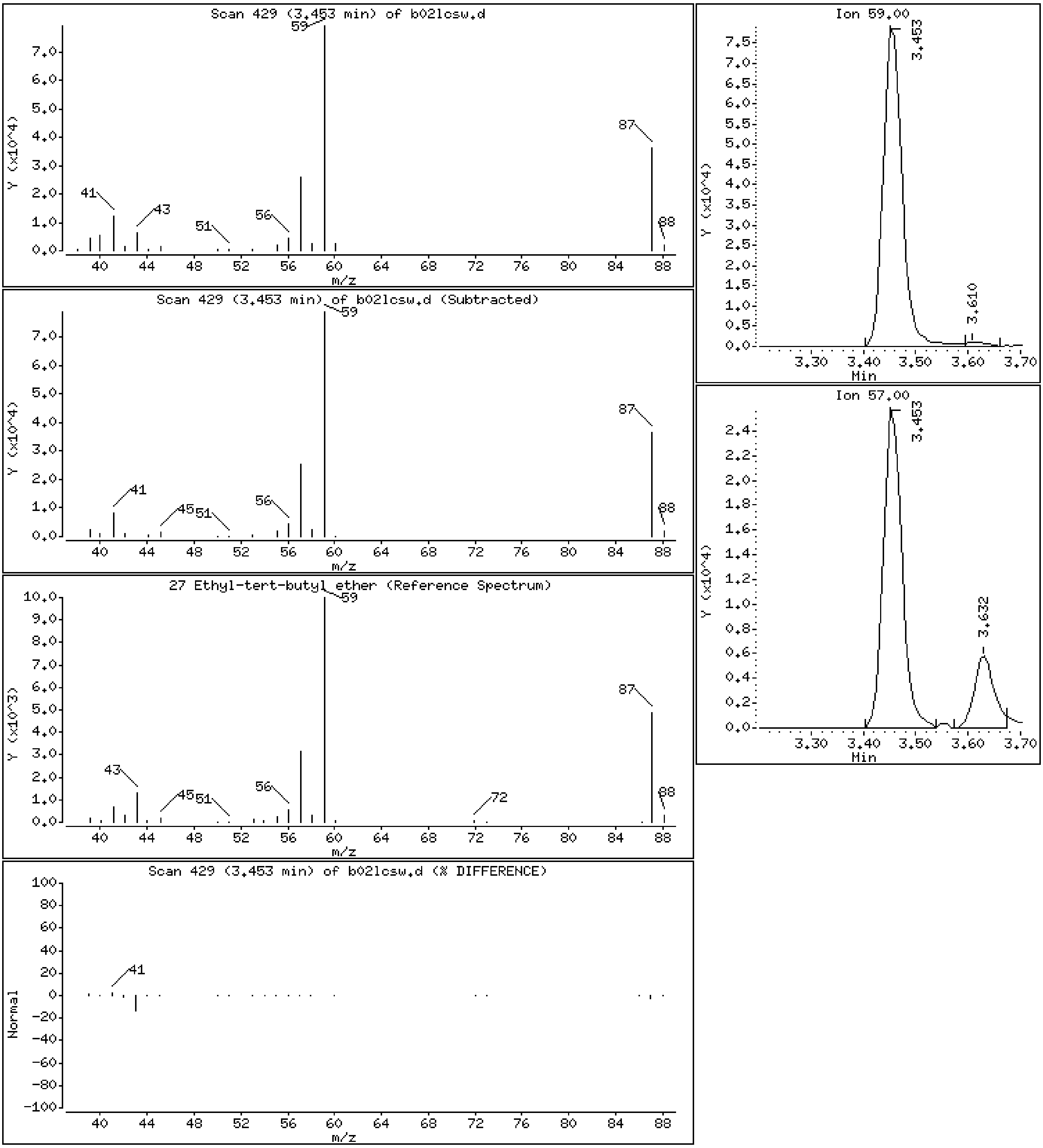
Column phase: DB-624

Column diameter: 0.18

27 Ethyl-tert-butyl ether

Concentration: 53.8 ppb

Review Code:



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Date : 24-JAN-2023 13:31

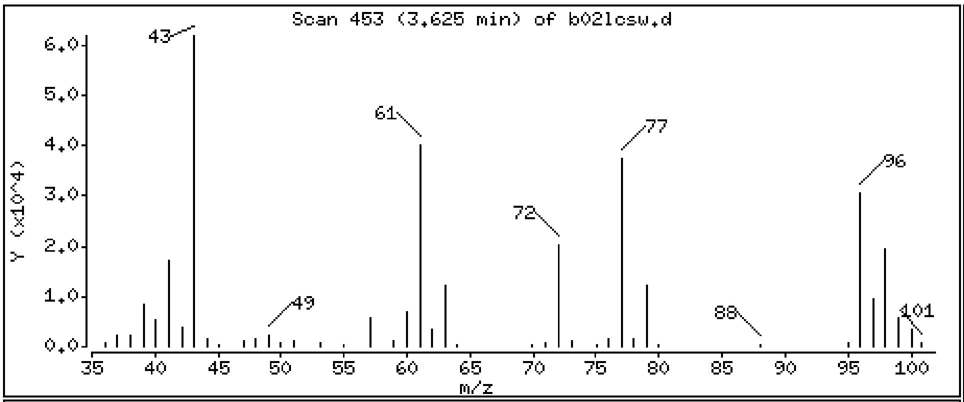
Client ID: Instrument: 50mvcb.i

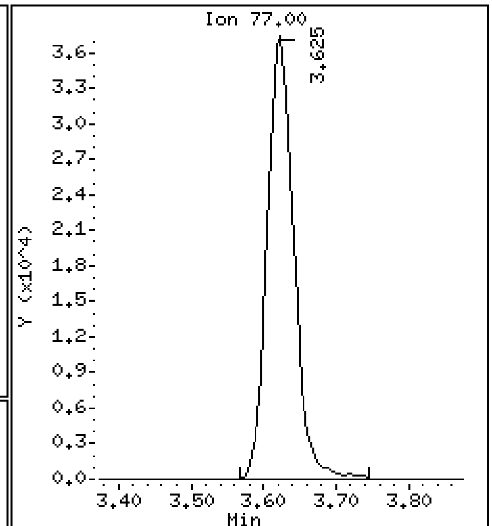
Sample Info: 3288023,335755:5

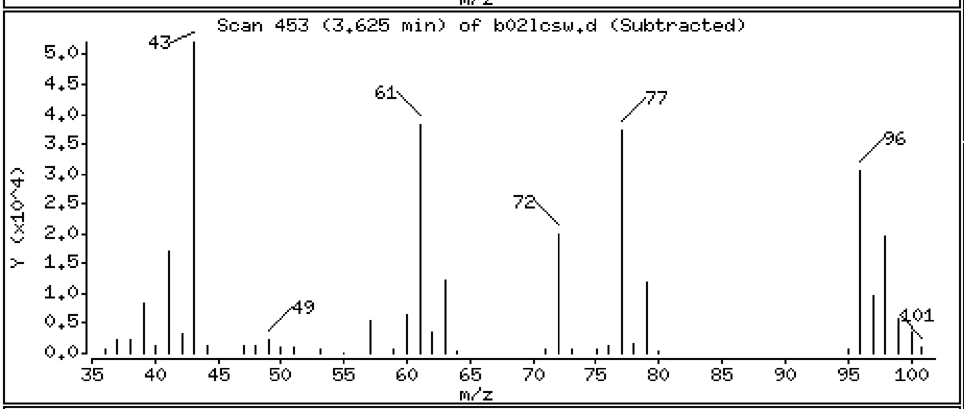
Purge Volume: 5.0 Operator: tkg

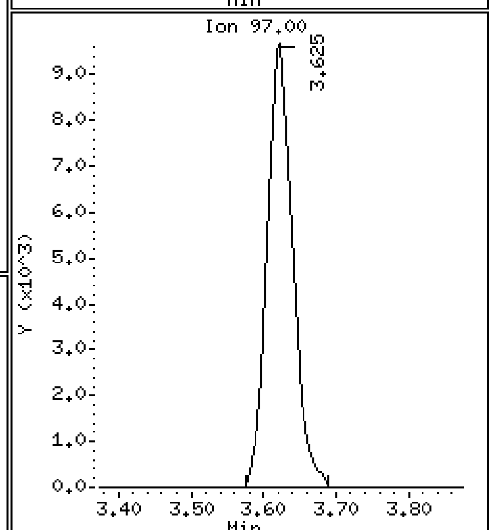
Column phase: DB-624 Column diameter: 0.18

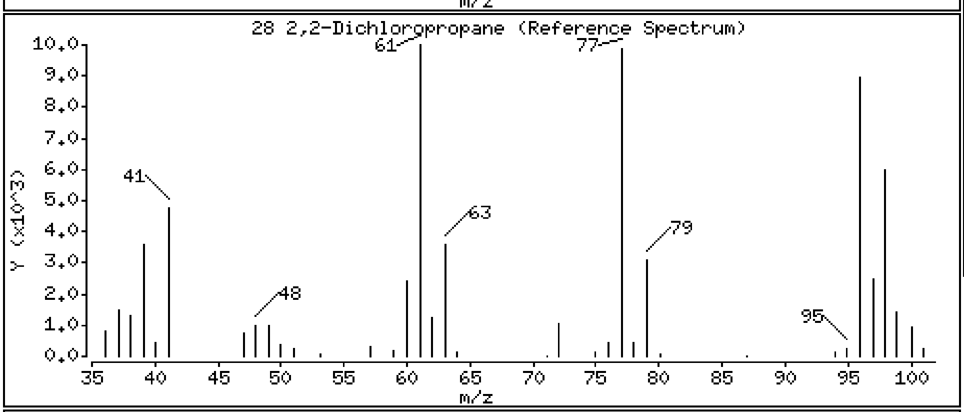
28 2,2-Dichloropropane Concentration: 55.2 ppb Review Code:

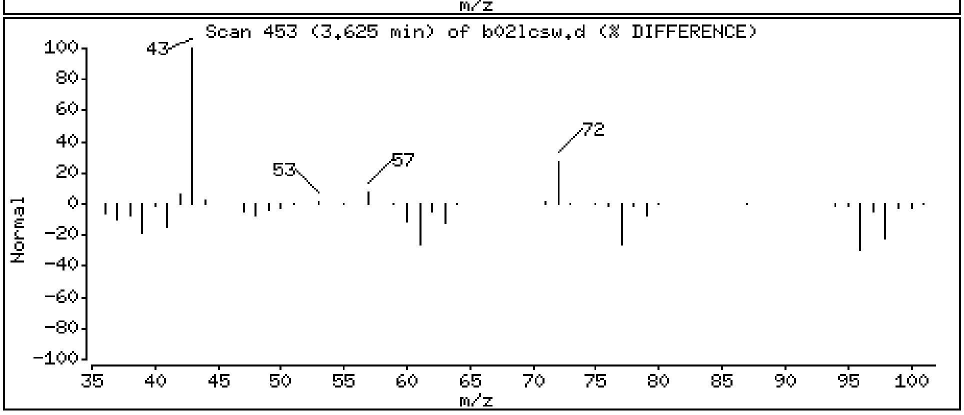












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Date : 24-JAN-2023 13:31

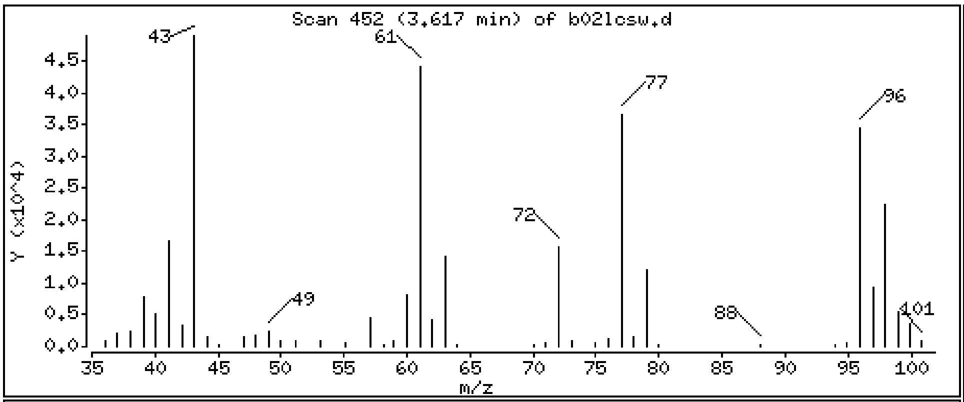
Client ID: Instrument: 50mvcb.i

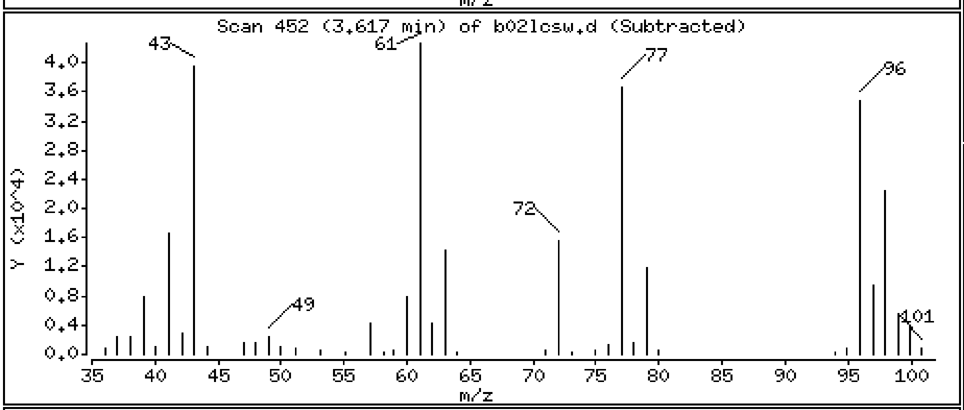
Sample Info: 3288023,335755:5

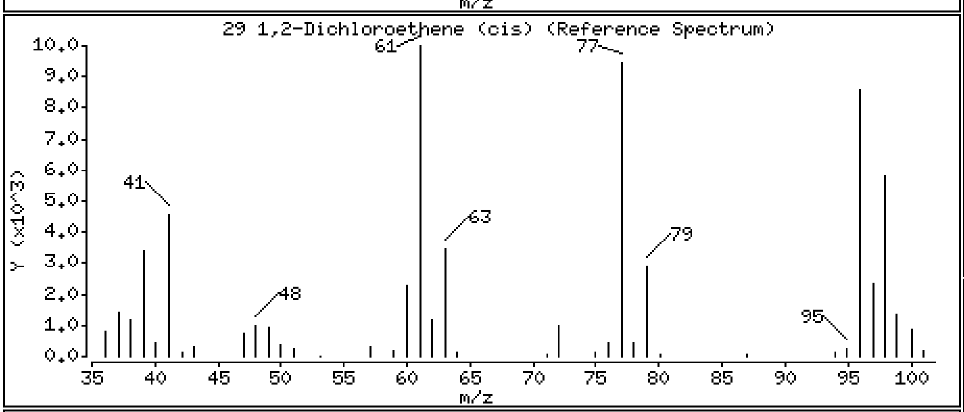
Purge Volume: 5.0 Operator: tkg

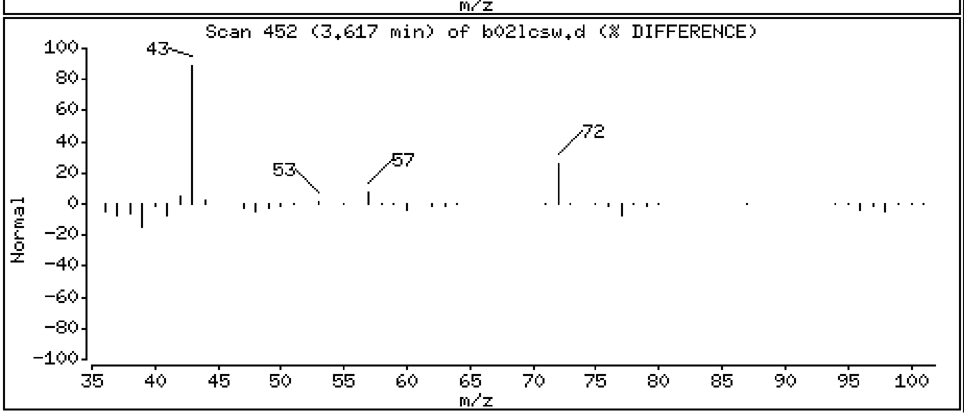
Column phase: DB-624 Column diameter: 0.18

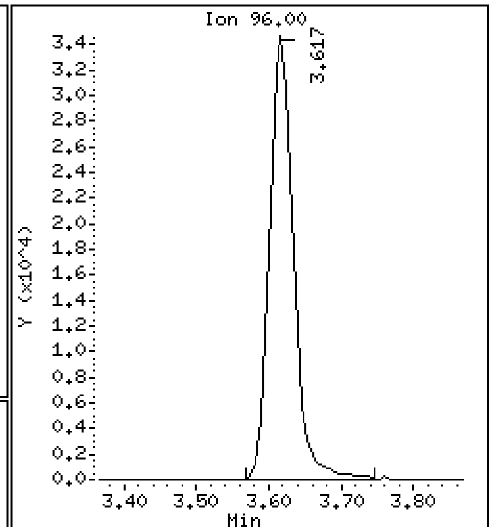
29 1,2-Dichloroethene (cis) Concentration: 55.3 ppb Review Code:

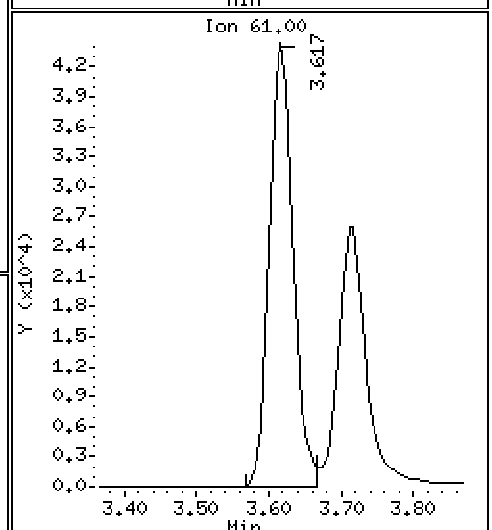


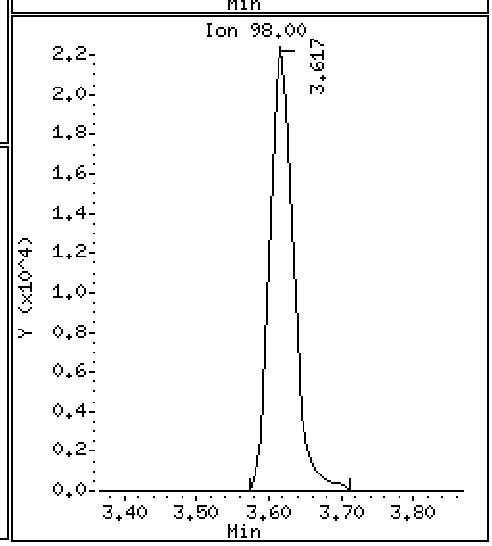












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d Page 34

Date : 24-JAN-2023 13:31

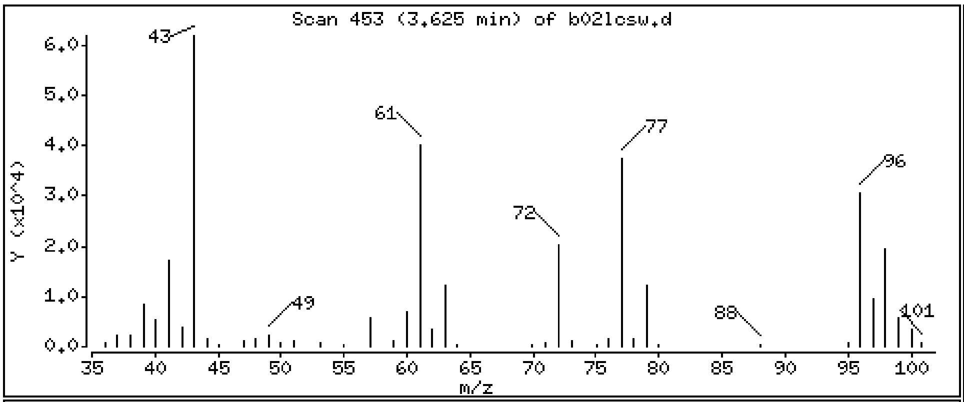
Client ID: Instrument: 50mvcb.i

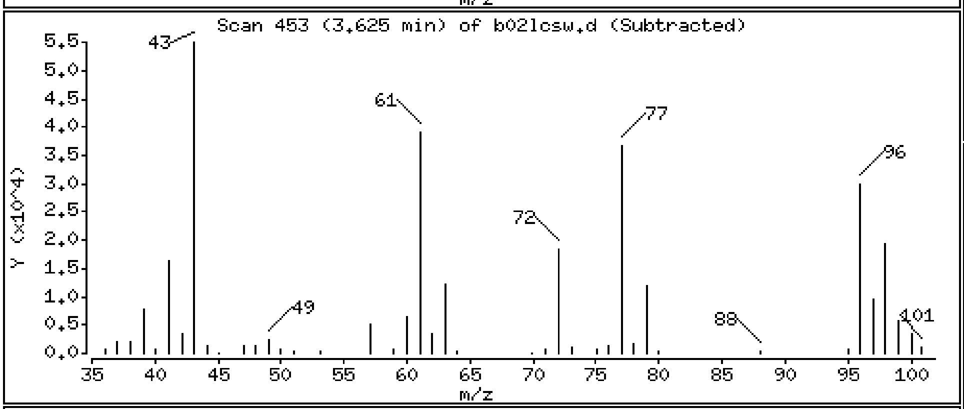
Sample Info: 3288023,335755:5

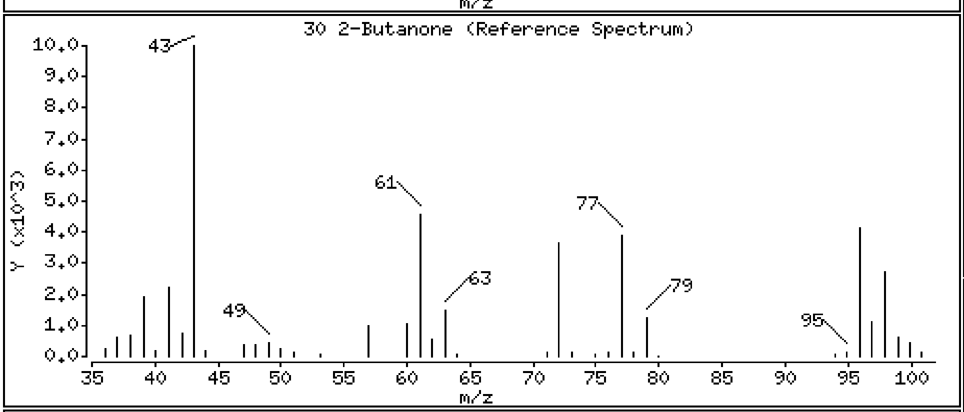
Purge Volume: 5.0 Operator: tkg

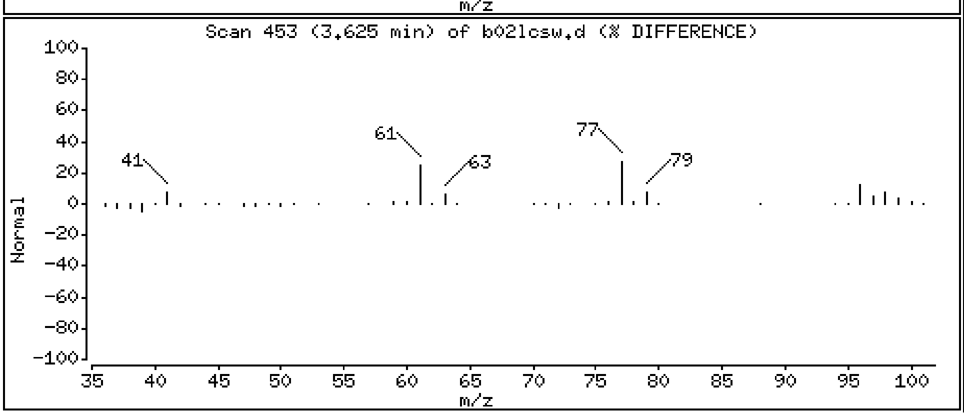
Column phase: DB-624 Column diameter: 0.18

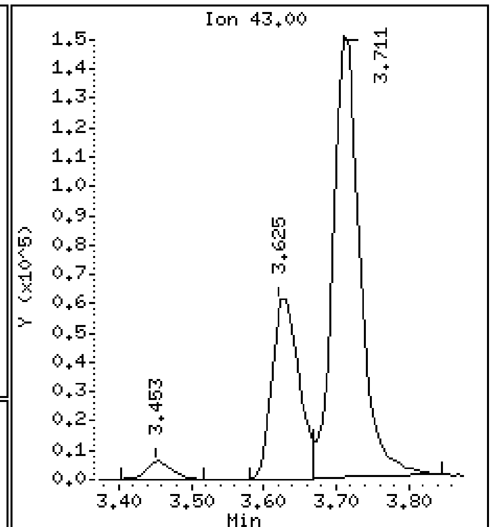
30 2-Butanone Concentration: 283 ppb Review Code:

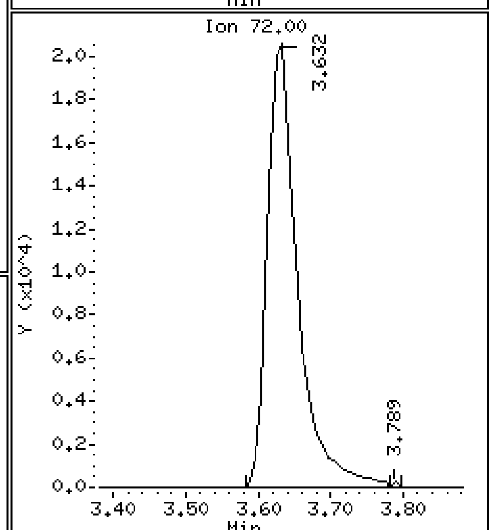


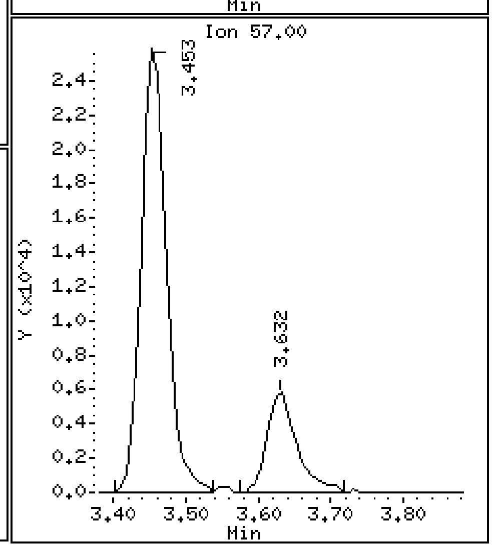












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Date : 24-JAN-2023 13:31

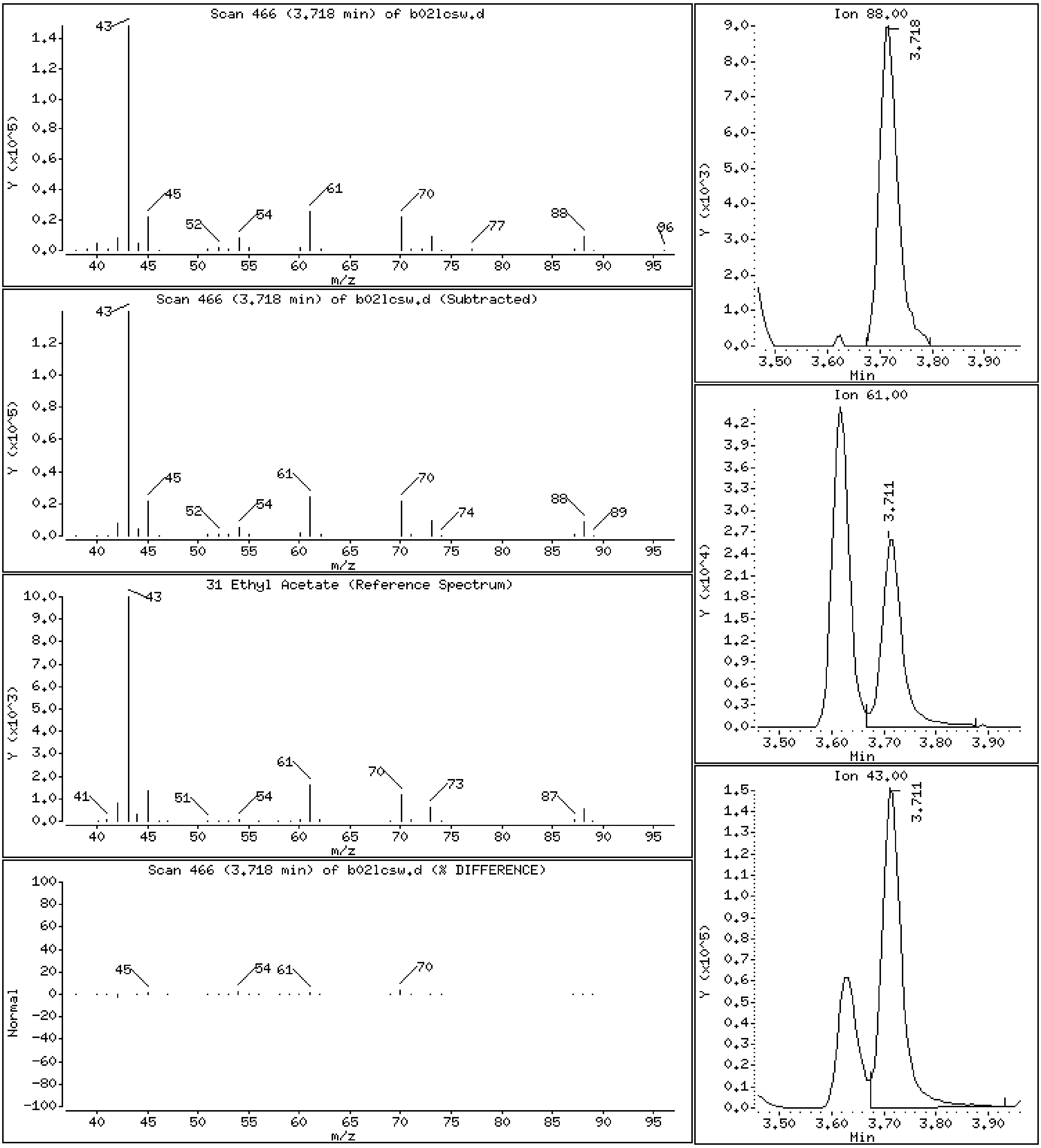
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

31 Ethyl Acetate Concentration: 316 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

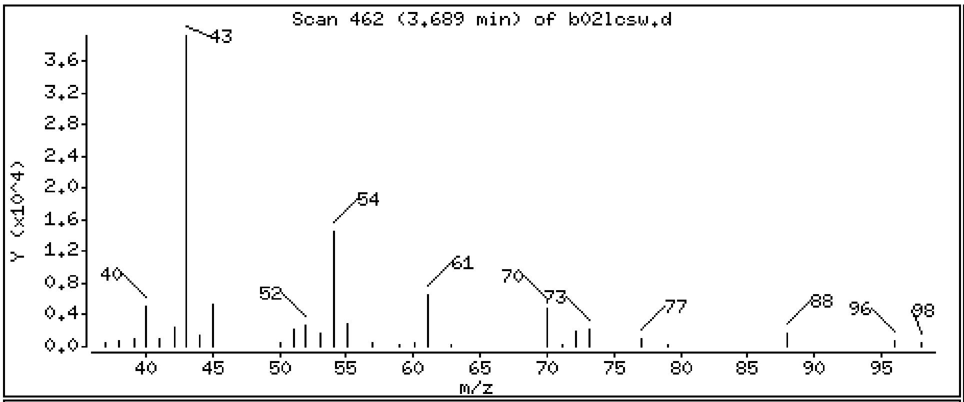
Column phase: DB-624

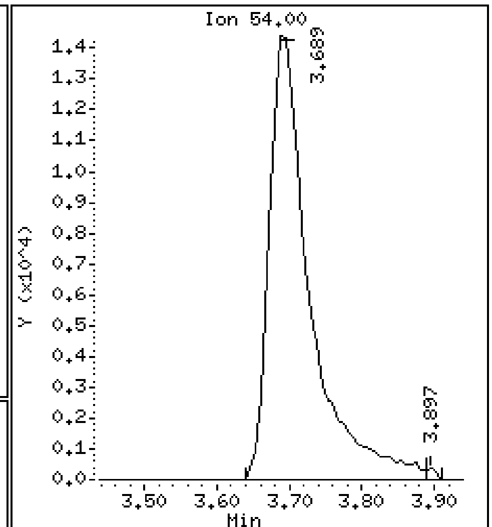
Column diameter: 0.18

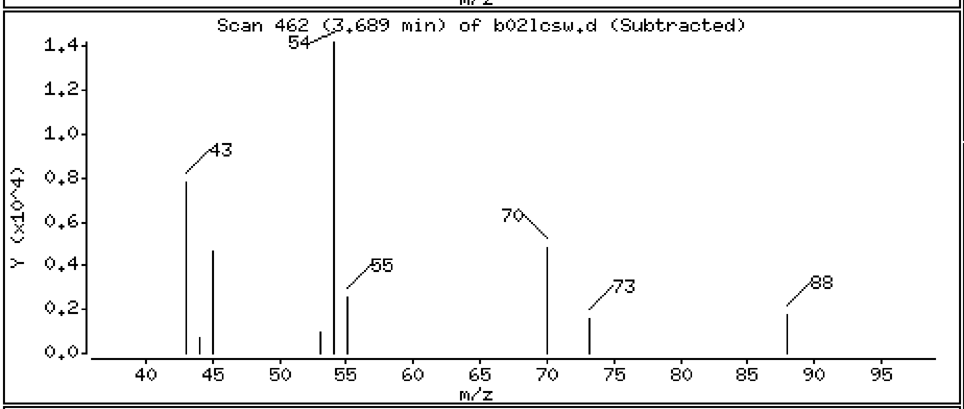
32 Propionitrile

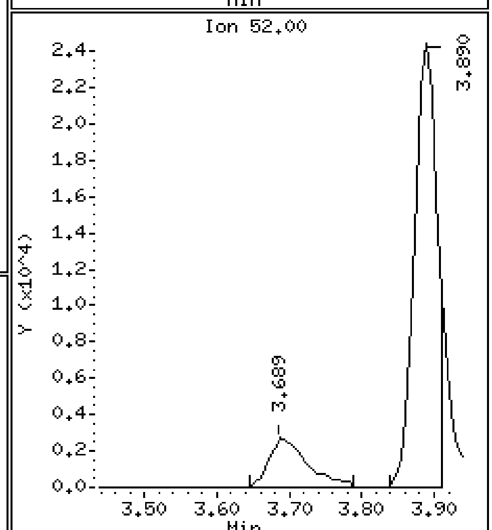
Concentration: 355 ppb

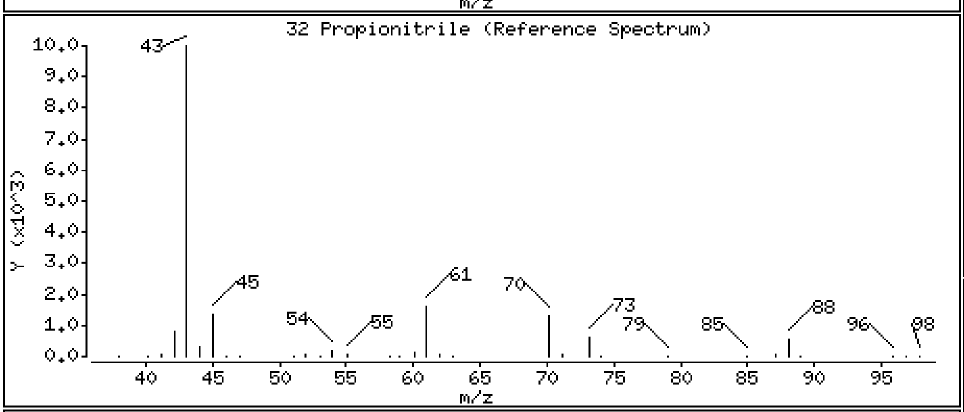
Review Code:

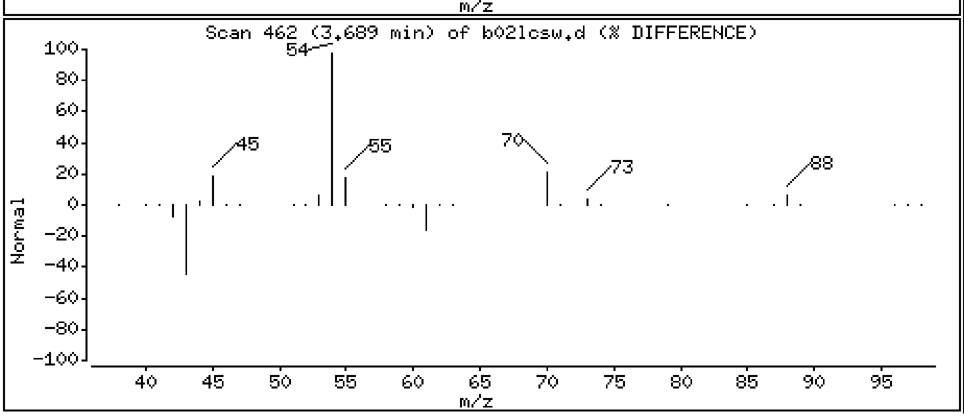


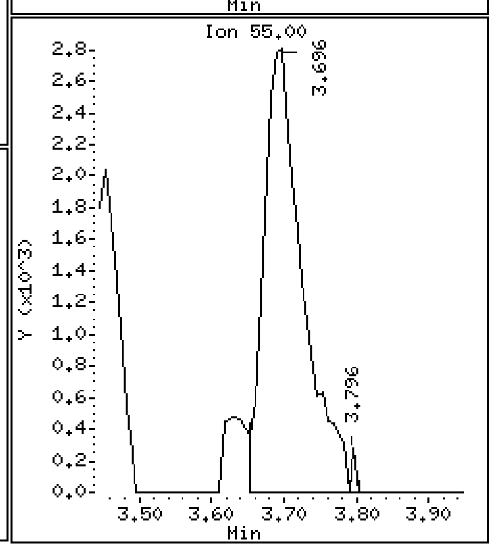












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

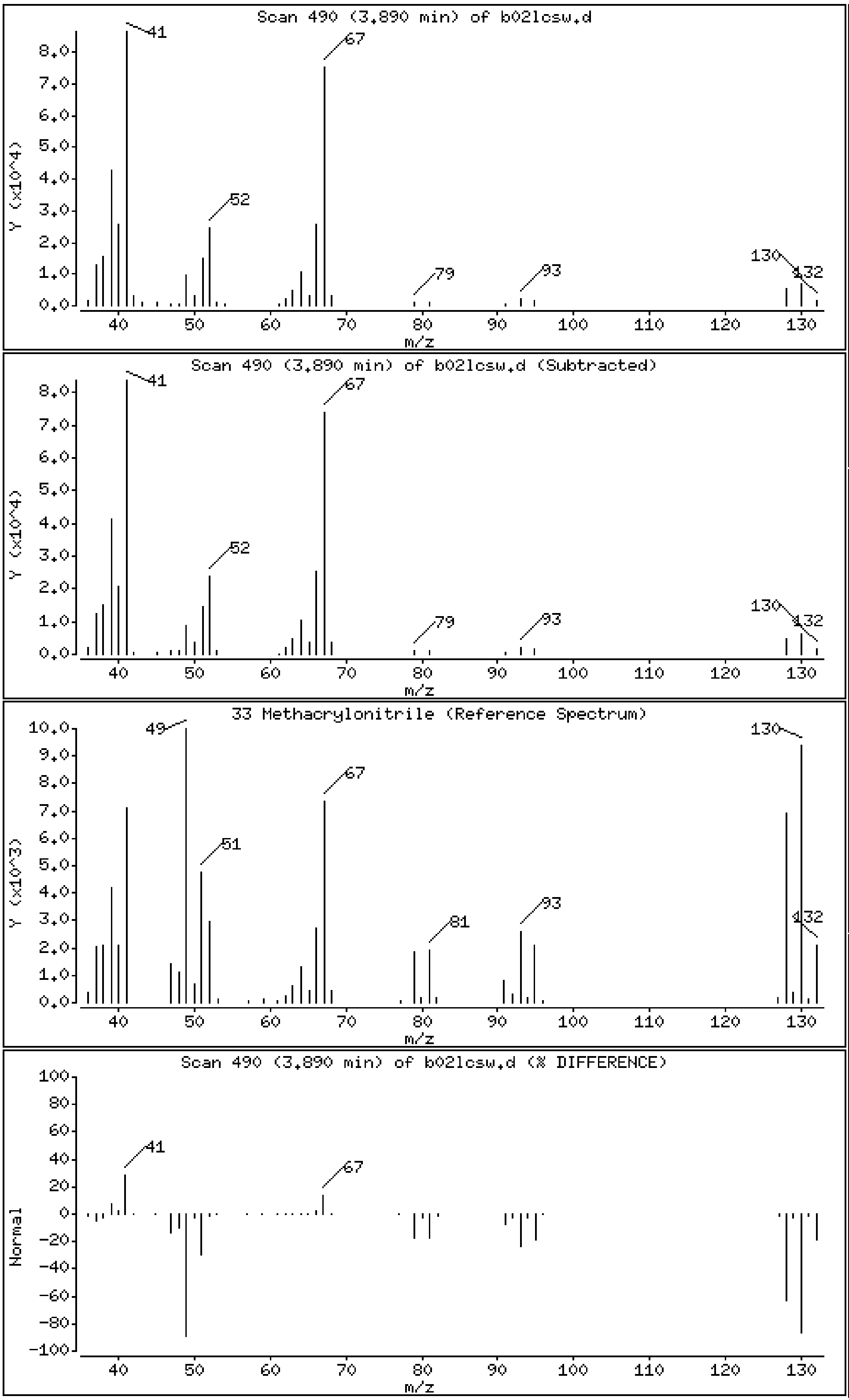
Column phase: DB-624

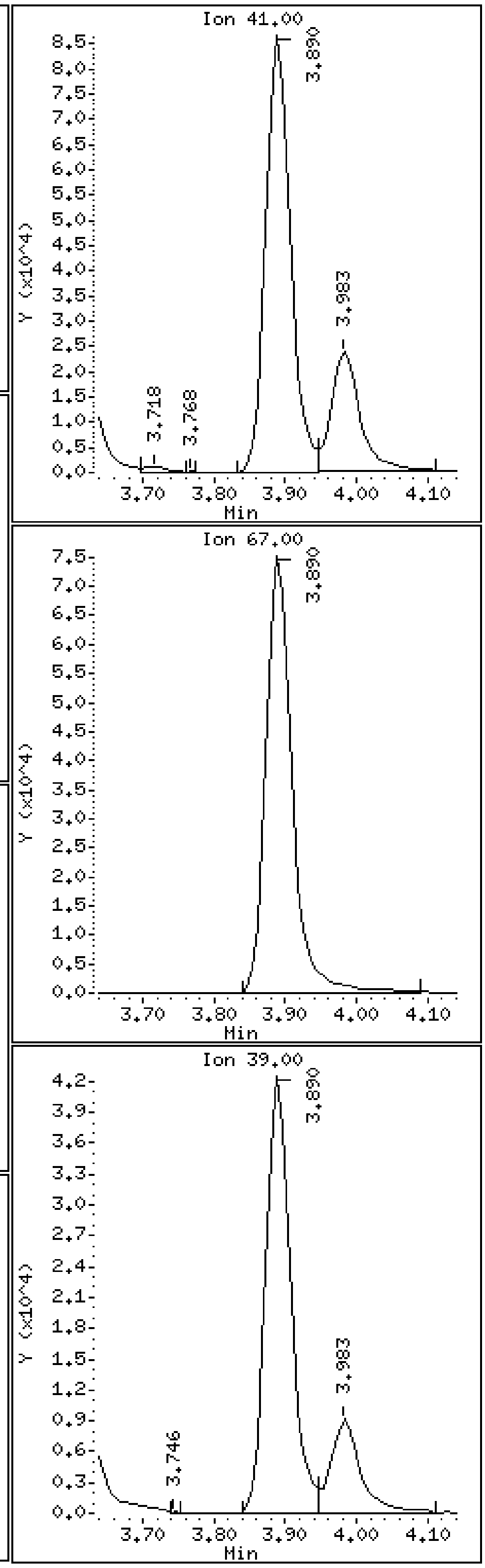
Column diameter: 0.18

33 Methacrylonitrile

Concentration: 292 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d

Date : 24-JAN-2023 13:31

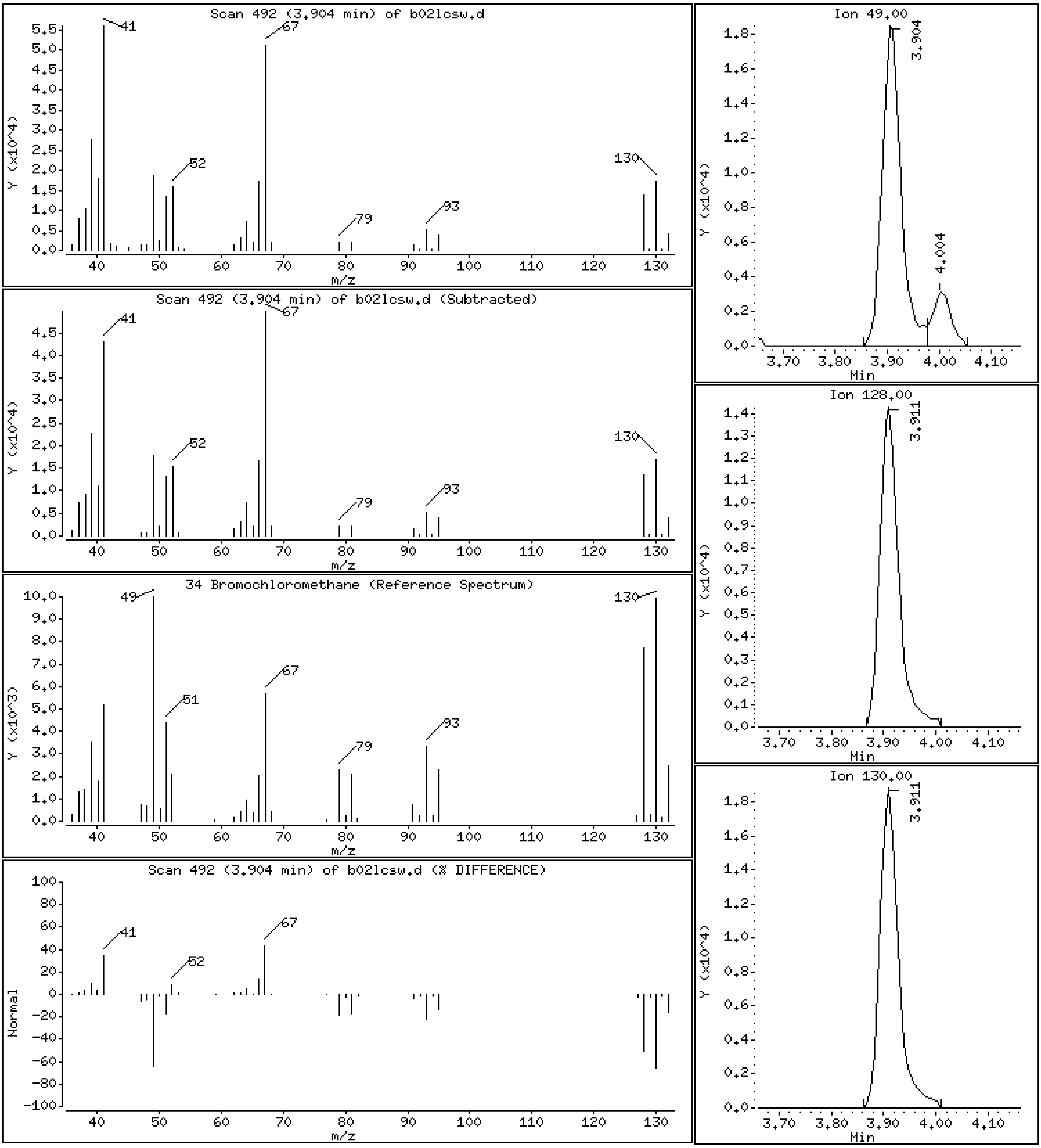
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

34 Bromochloromethane Concentration: 48.1 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

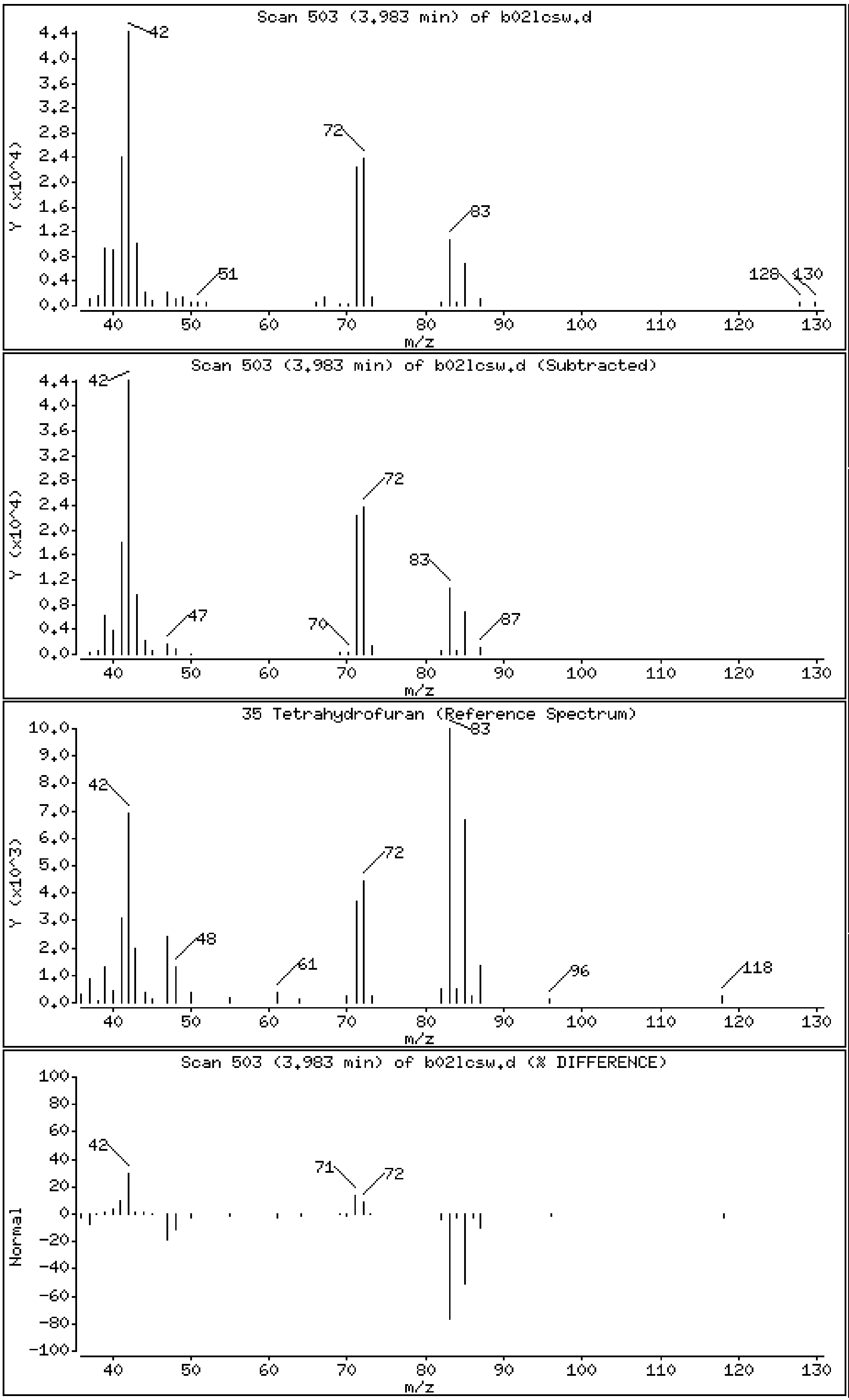
Column phase: DB-624

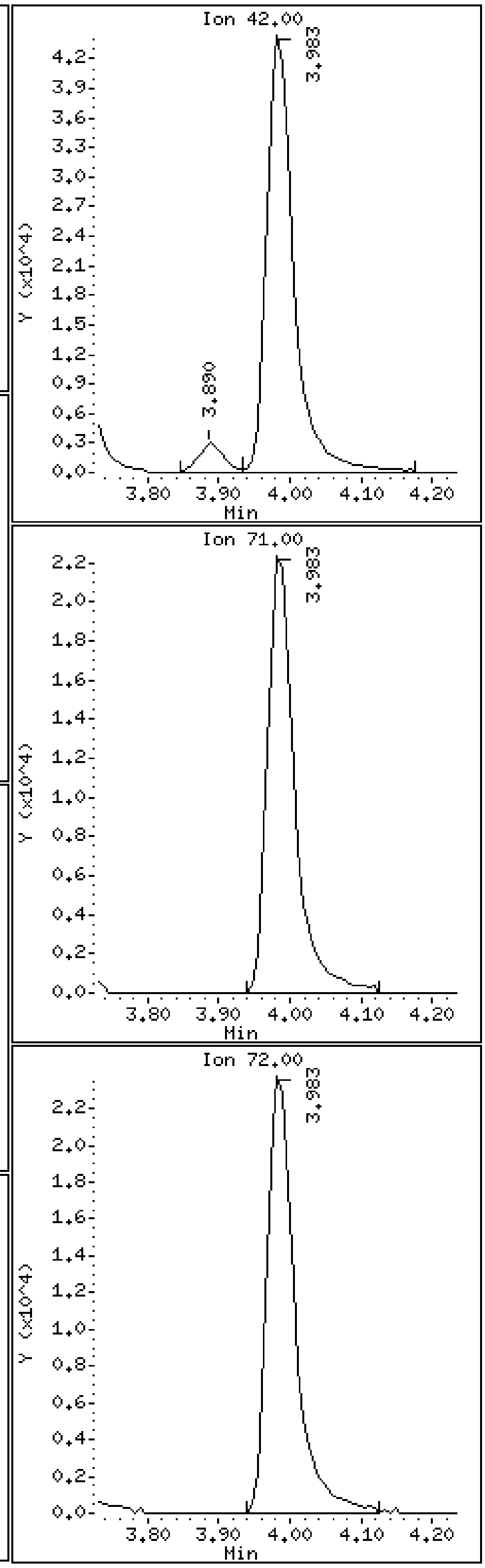
Column diameter: 0.18

35 Tetrahydrofuran

Concentration: 290 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

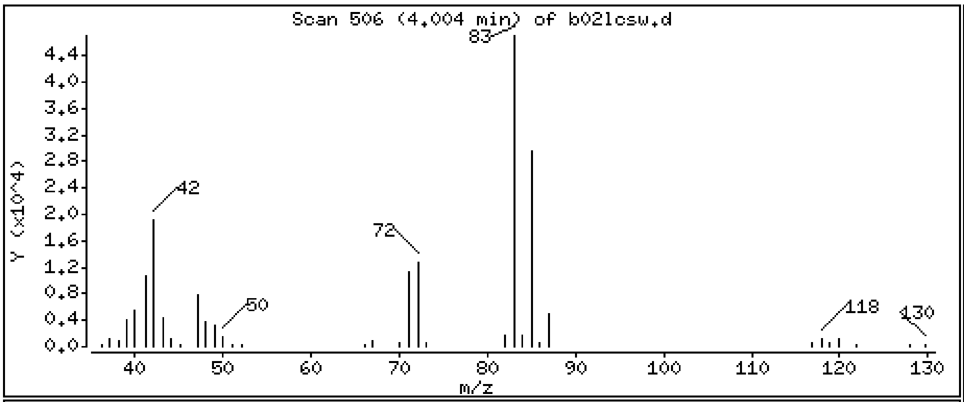
Column phase: DB-624

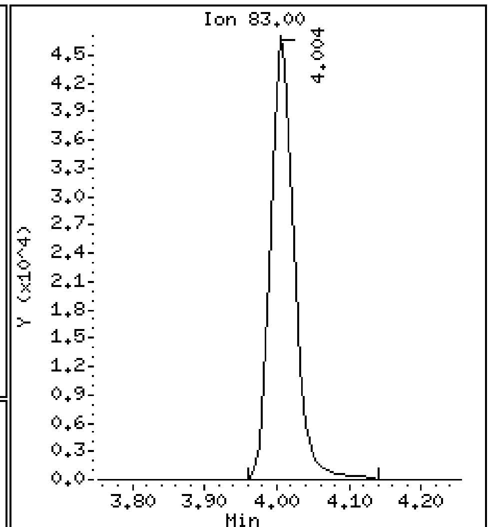
Column diameter: 0.18

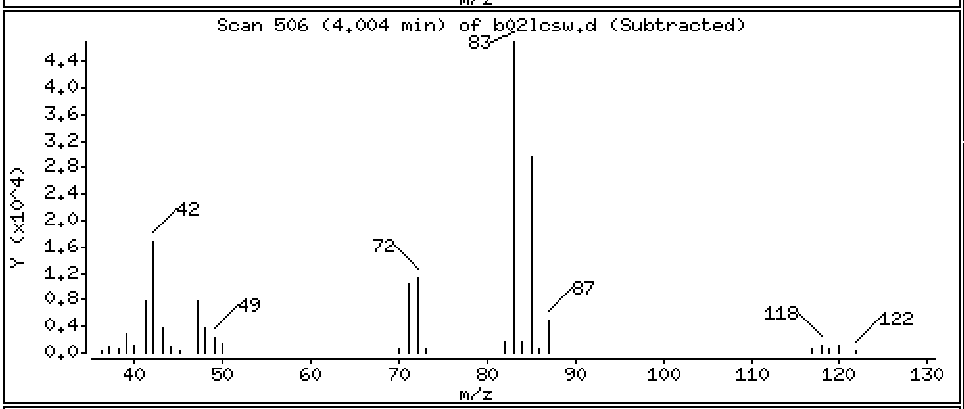
36 Chloroform

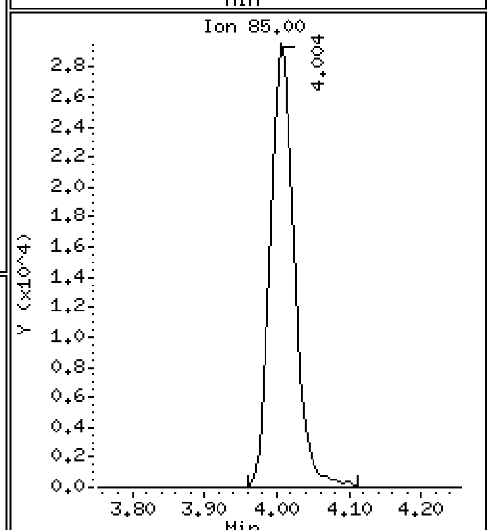
Concentration: 47.6 ppb

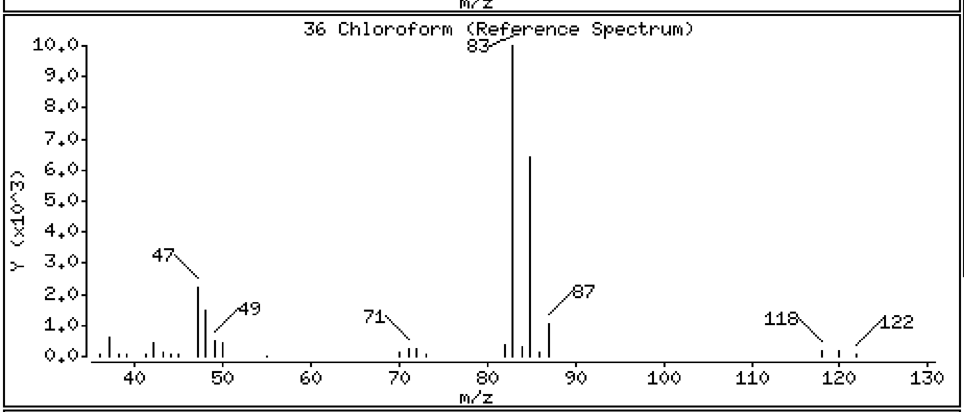
Review Code:

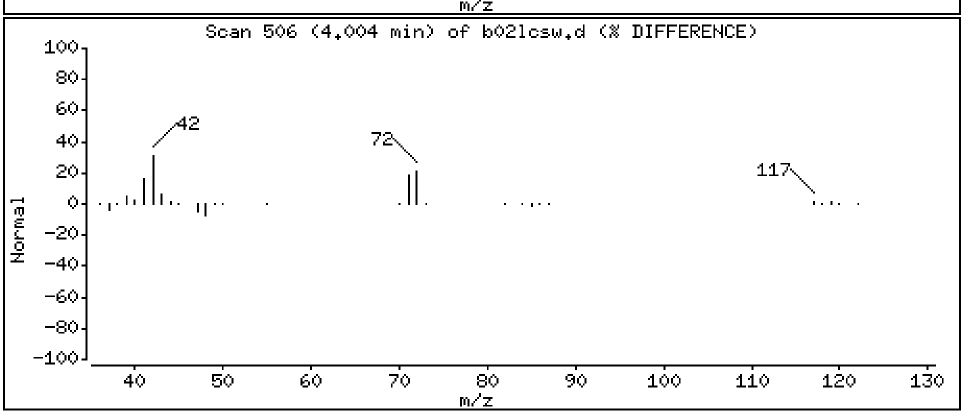












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

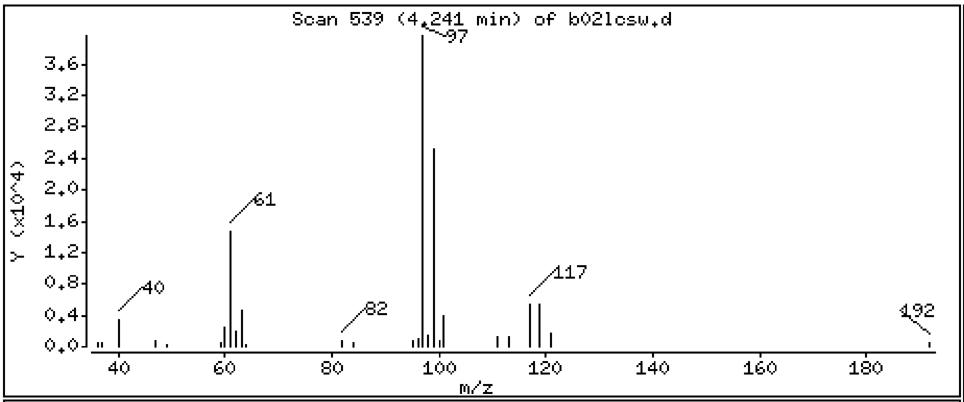
Column phase: DB-624

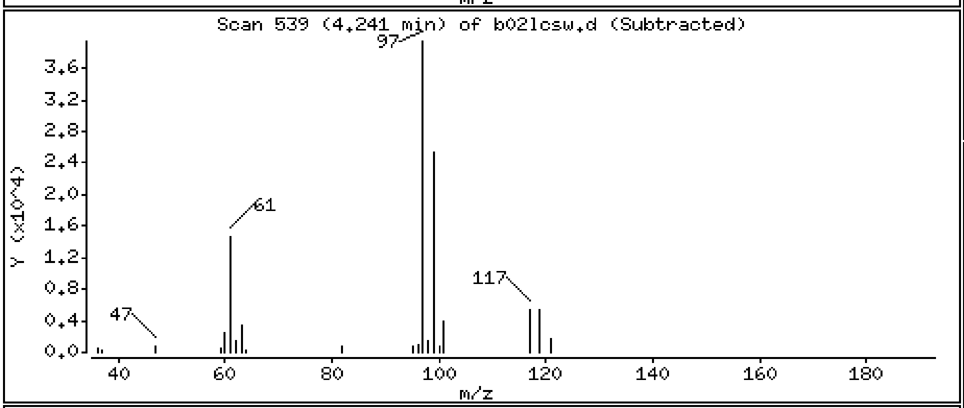
Column diameter: 0.18

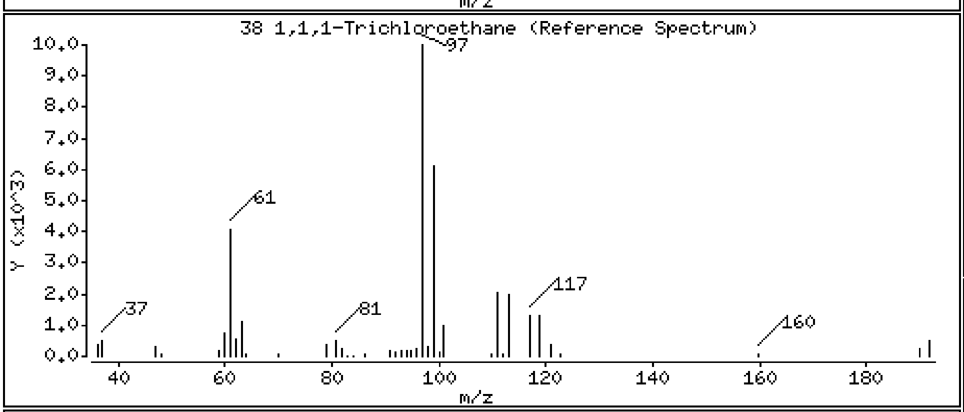
38 1,1,1-Trichloroethane

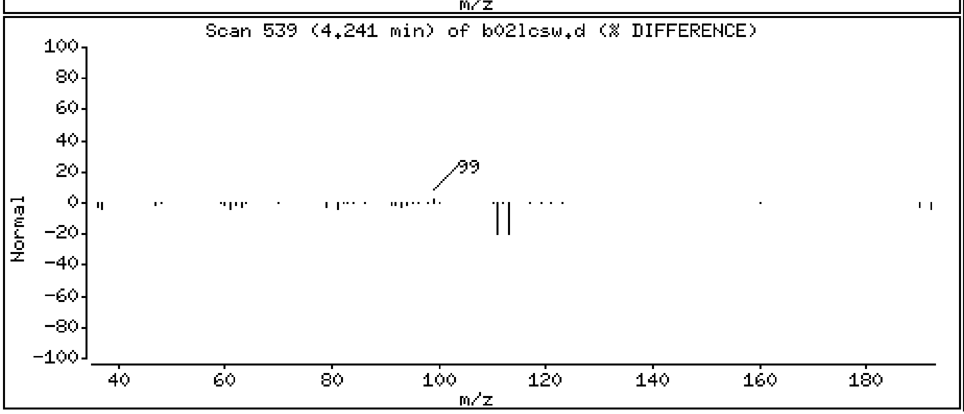
Concentration: 49.8 ppb

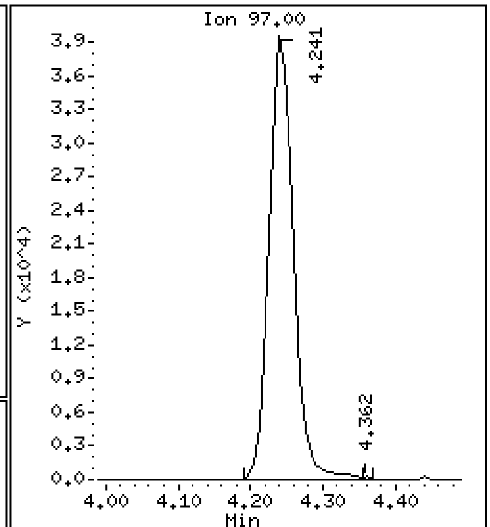
Review Code:

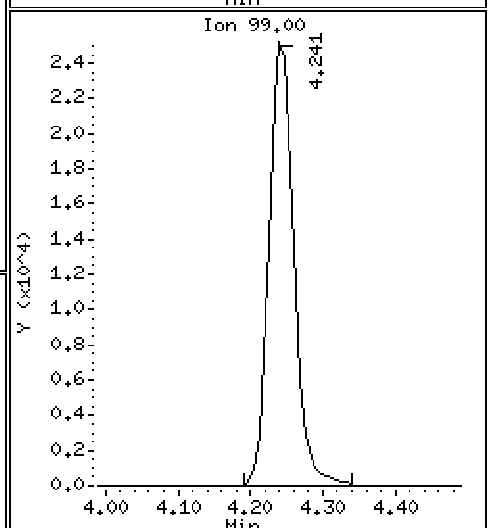


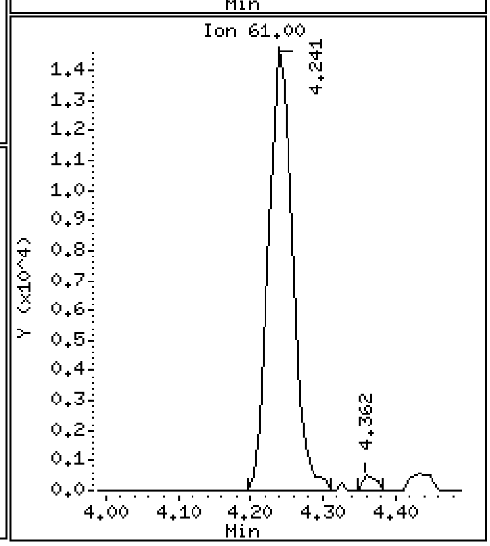












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

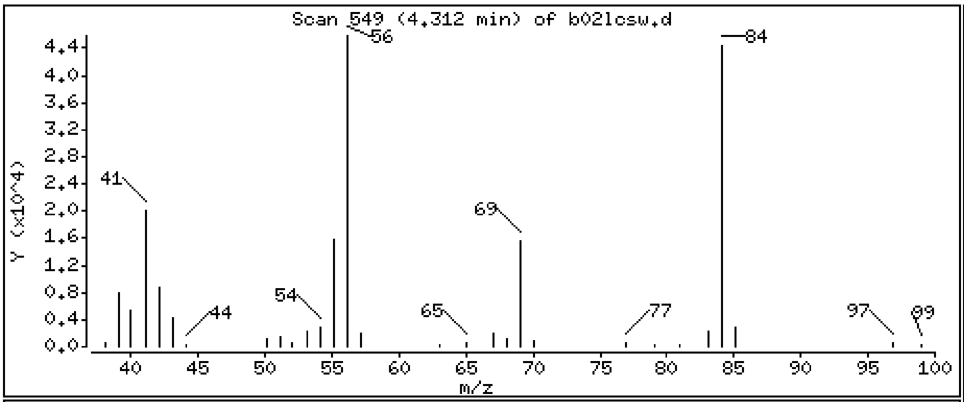
Column phase: DB-624

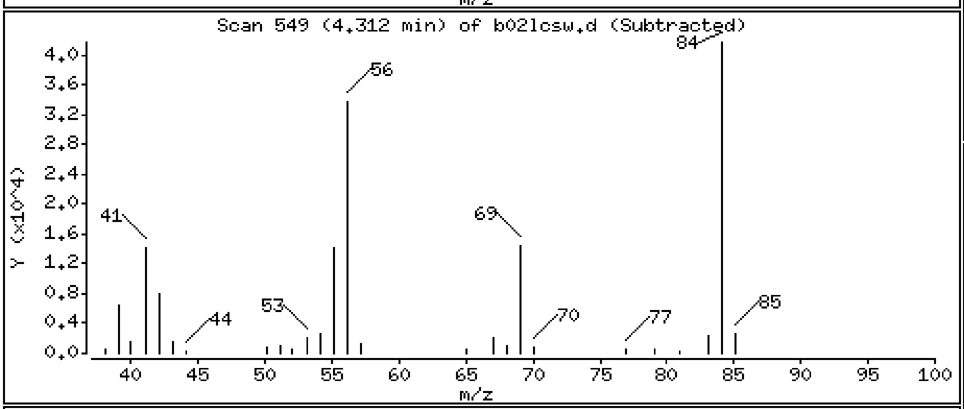
Column diameter: 0.18

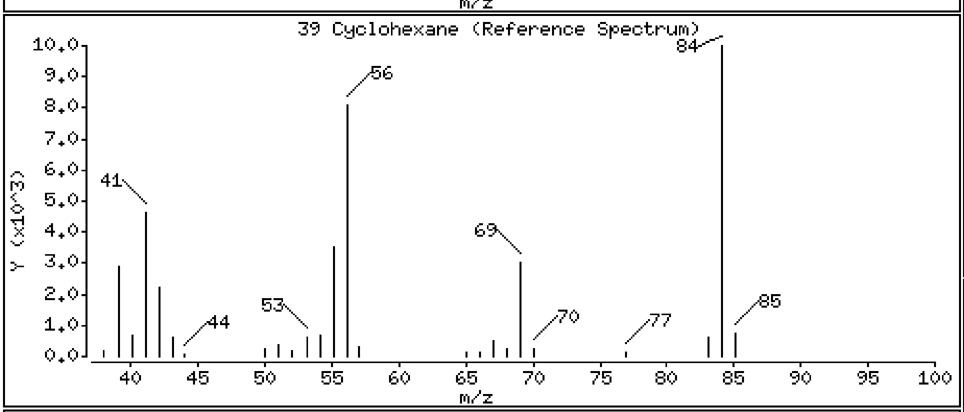
39 Cyclohexane

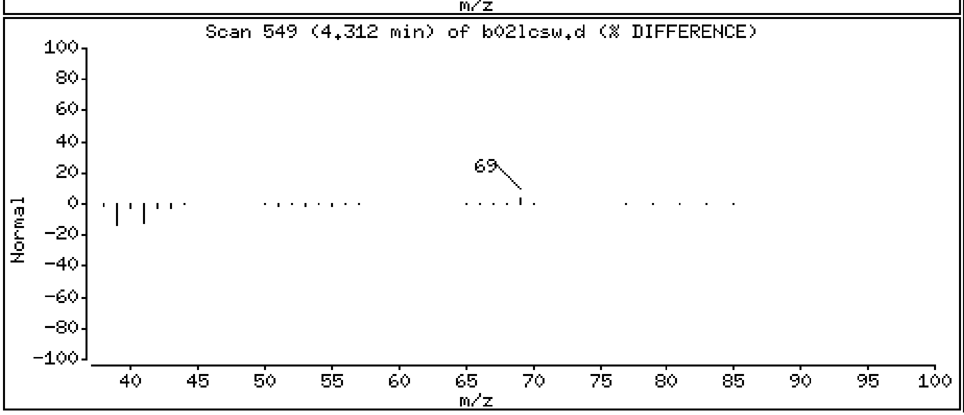
Concentration: 52.4 ppb

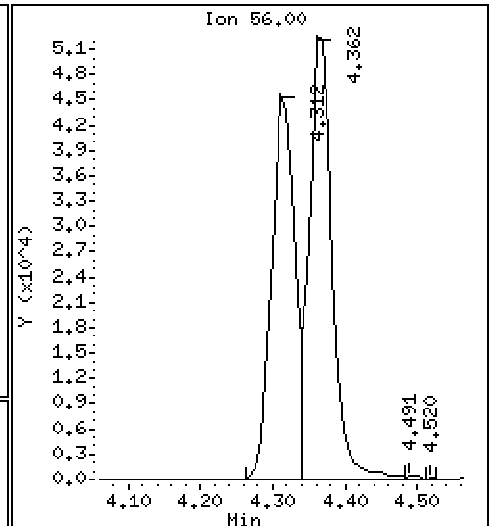
Review Code:

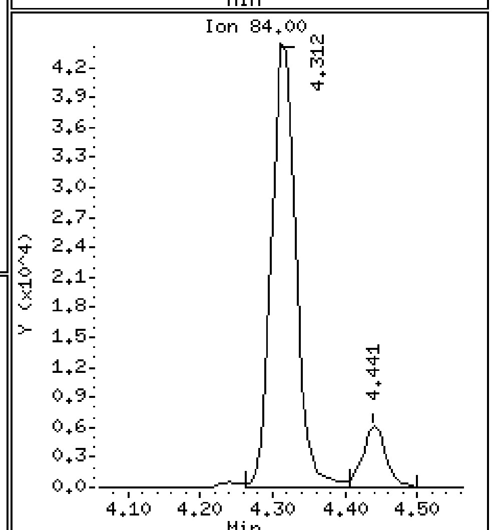


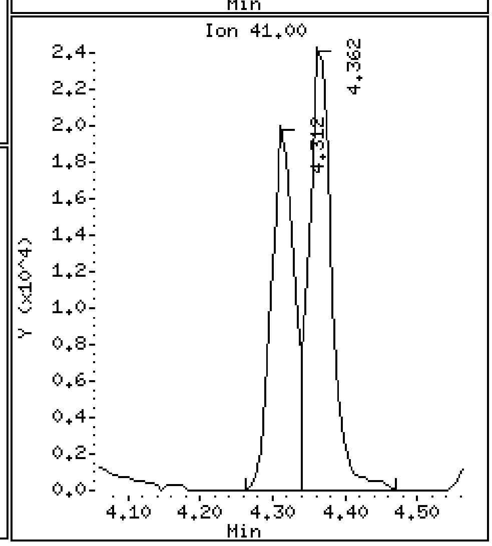












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

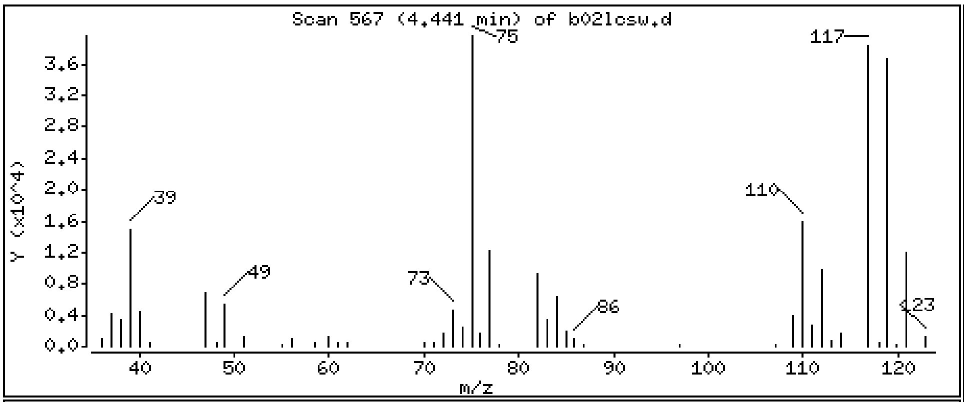
Column phase: DB-624

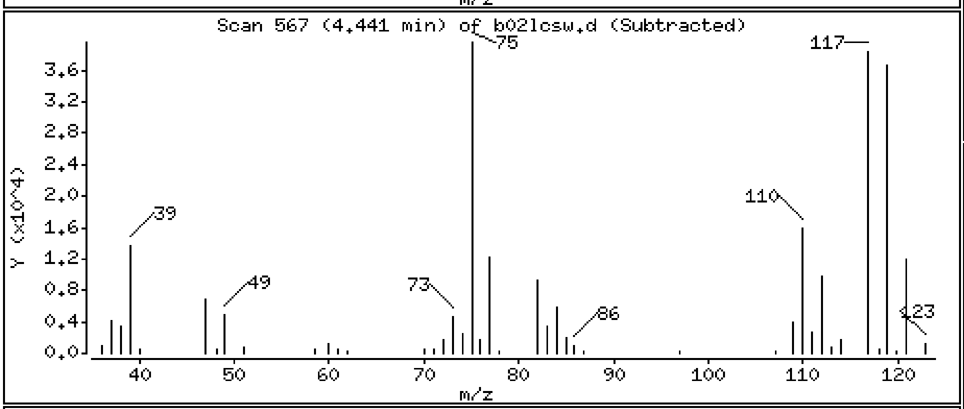
Column diameter: 0.18

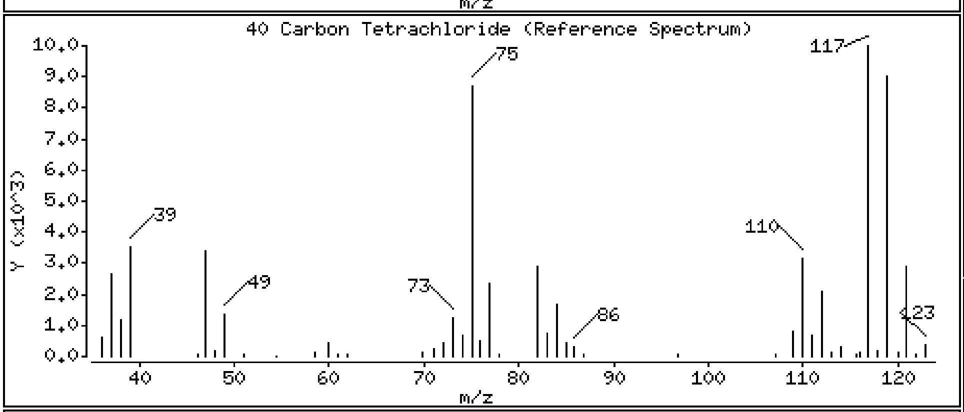
40 Carbon Tetrachloride

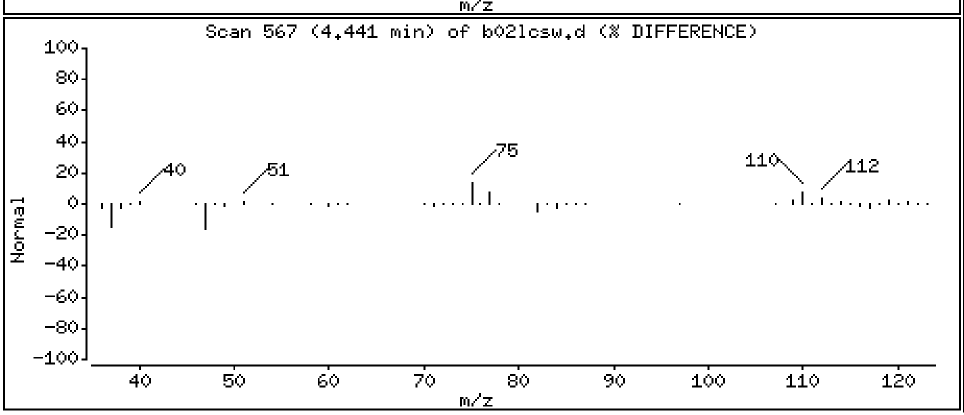
Concentration: 51.6 ppb

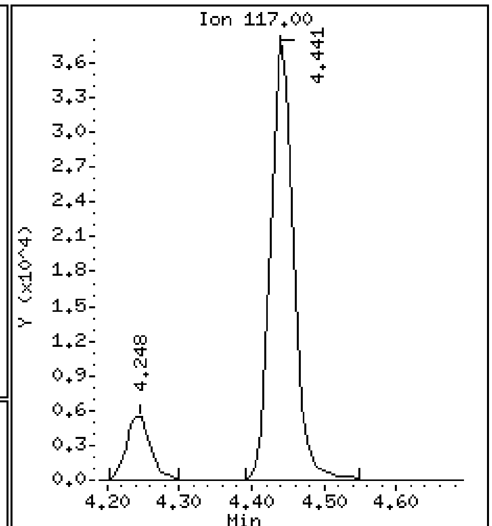
Review Code:

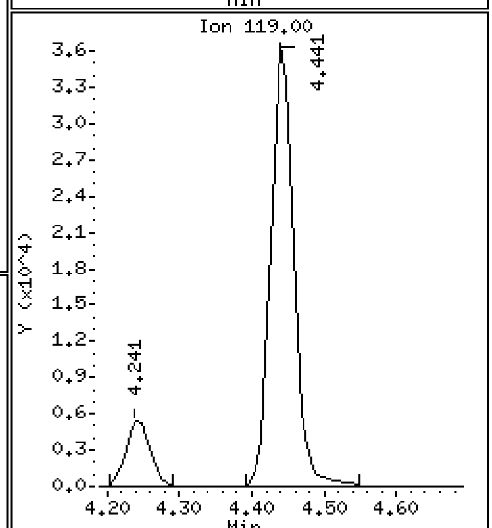


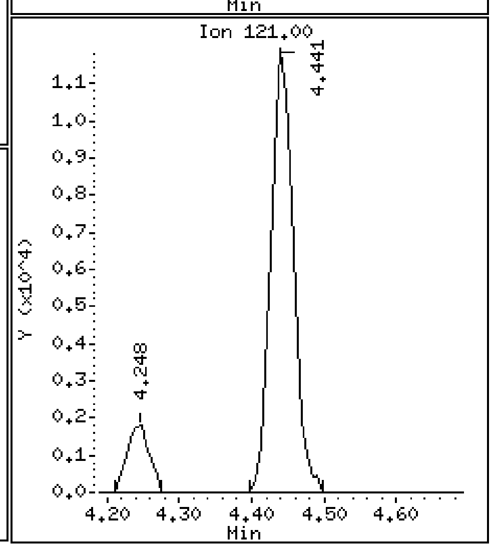












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

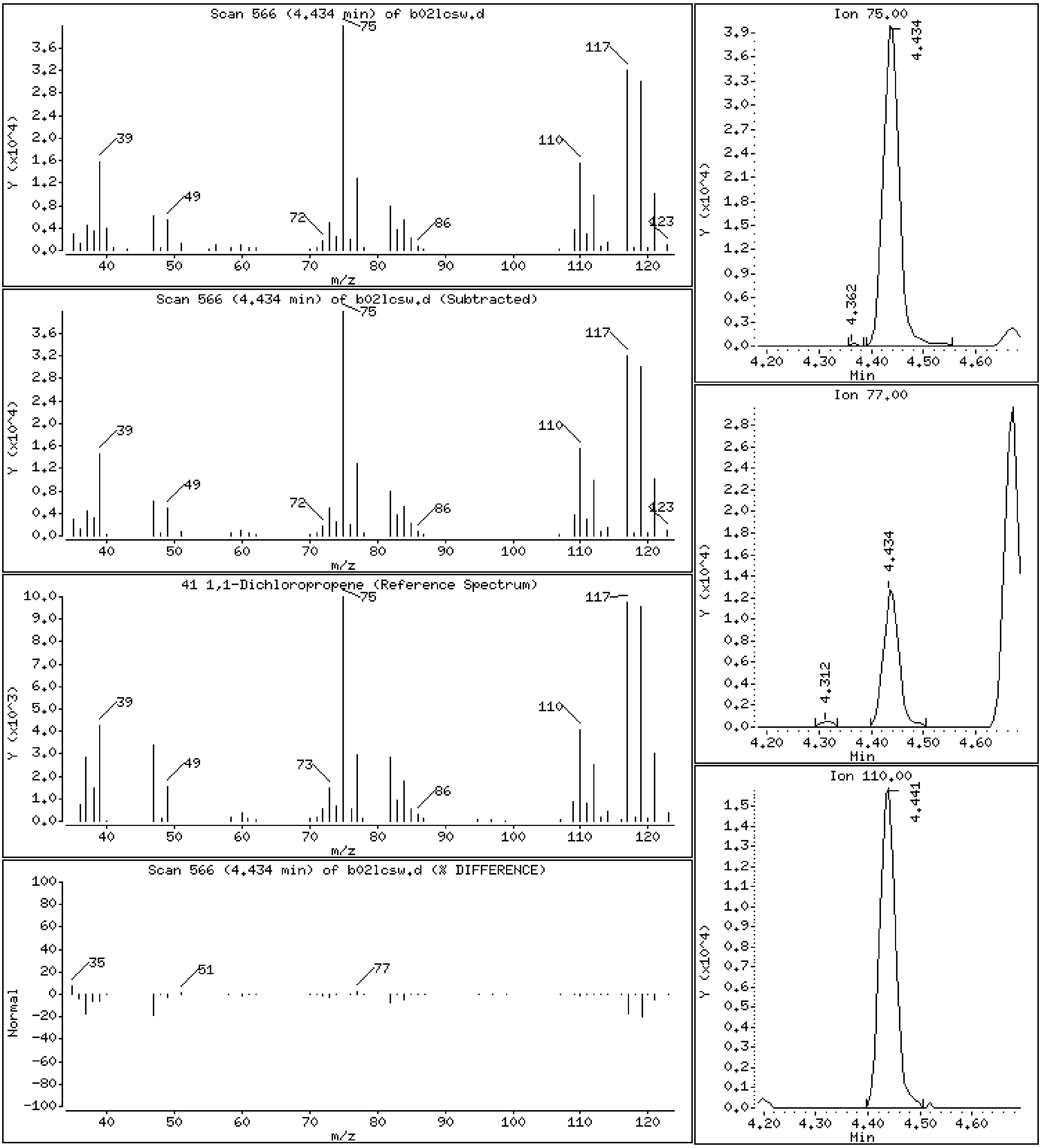
Column phase: DB-624

Column diameter: 0.18

41 1,1-Dichloropropene

Concentration: 53.4 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

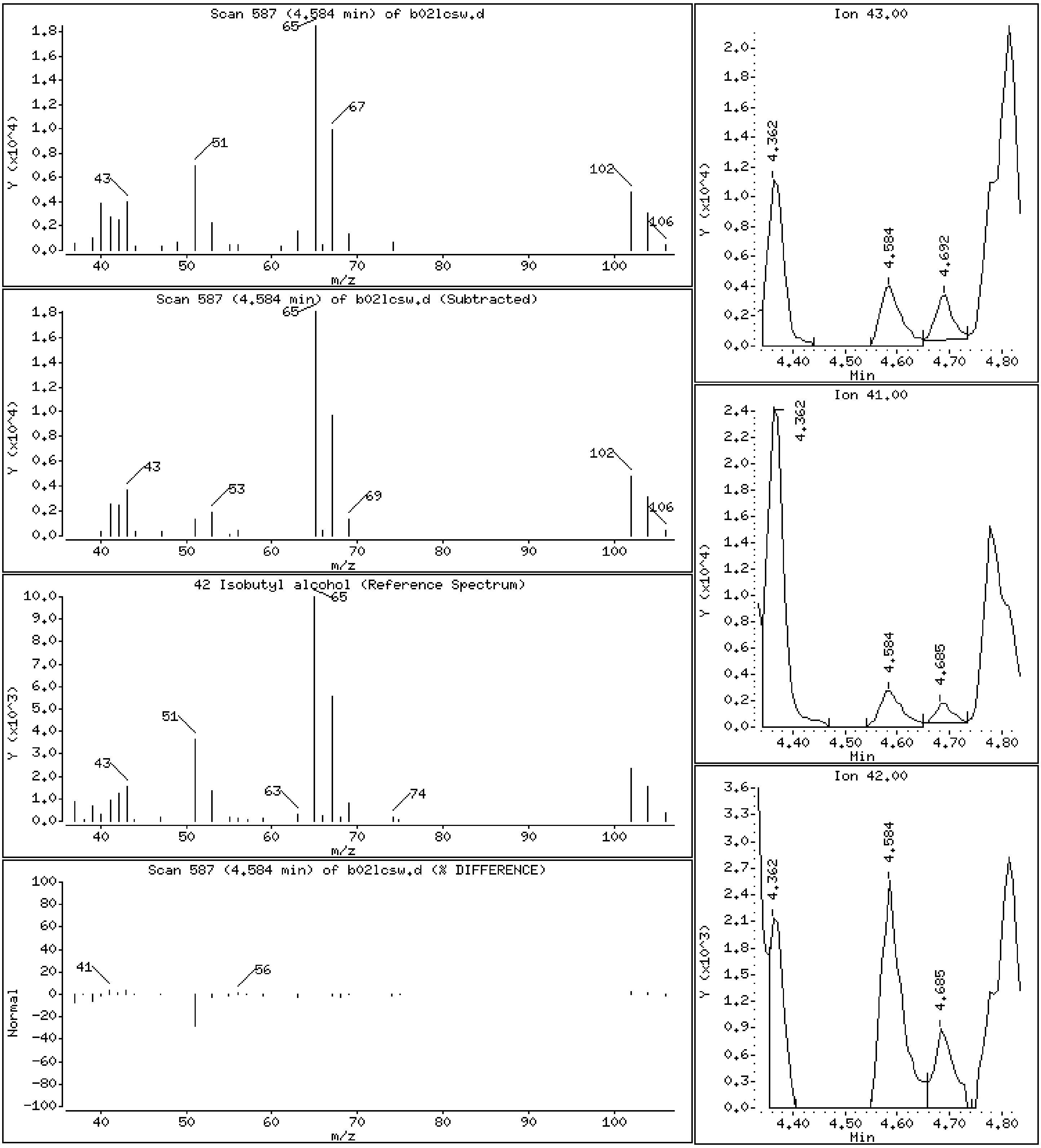
Column phase: DB-624

Column diameter: 0.18

42 Isobutyl alcohol

Concentration: 302 ppb

Review Code:



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Date : 24-JAN-2023 13:31

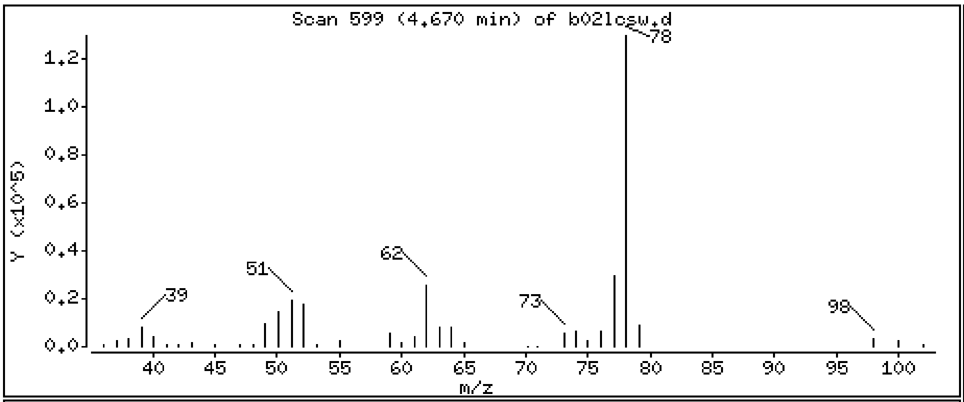
Client ID: Instrument: 50mvcb.i

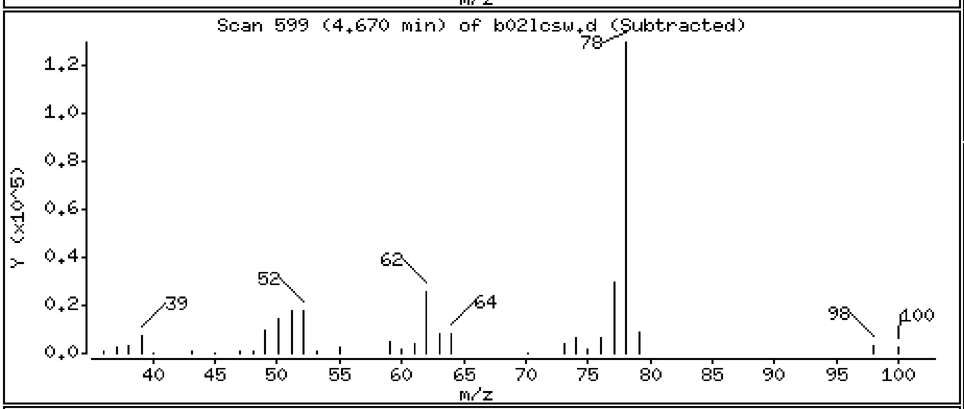
Sample Info: 3288023,335755:5

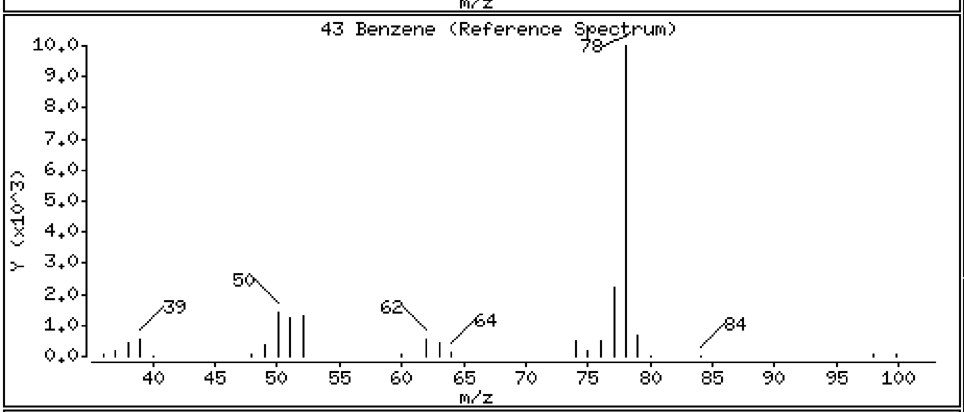
Purge Volume: 5.0 Operator: tkg

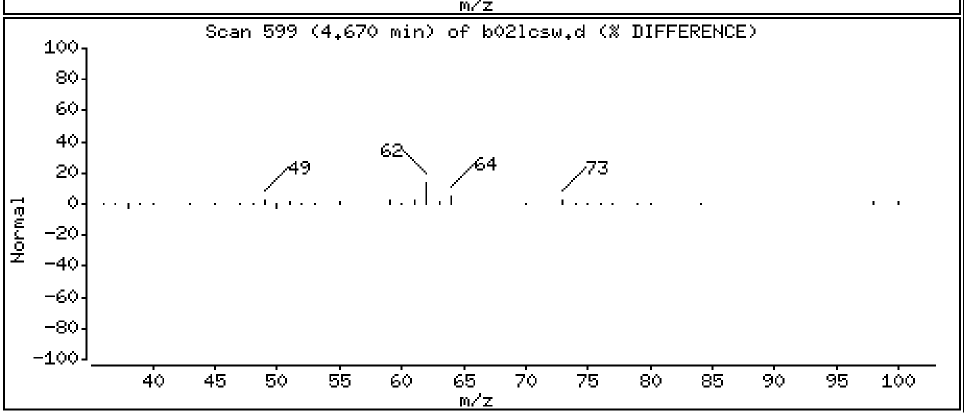
Column phase: DB-624 Column diameter: 0.18

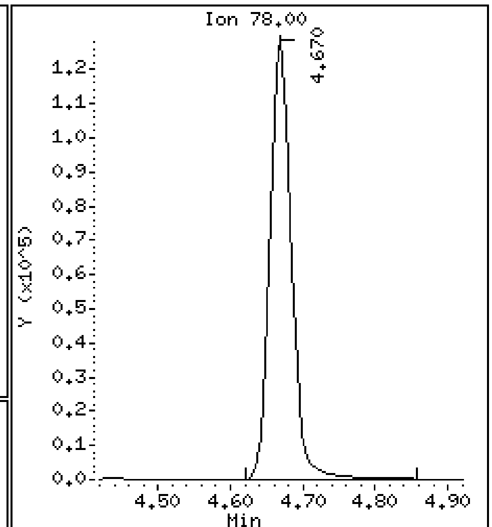
43 Benzene Concentration: 48.2 ppb Review Code:

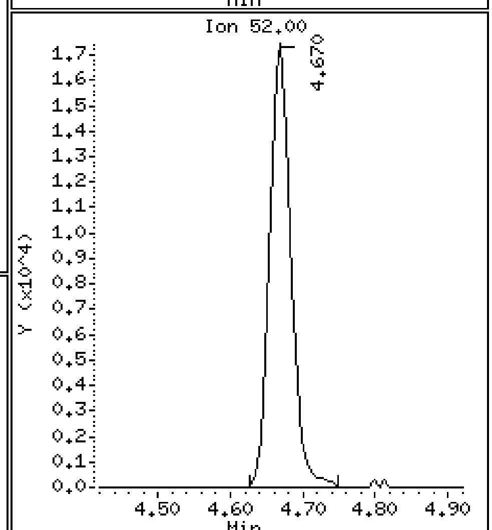


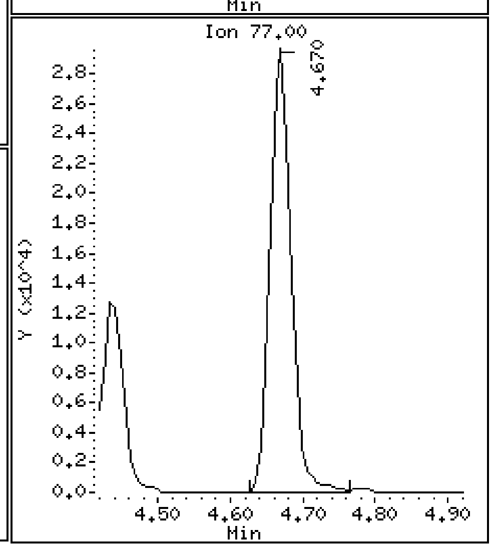












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Date : 24-JAN-2023 13:31

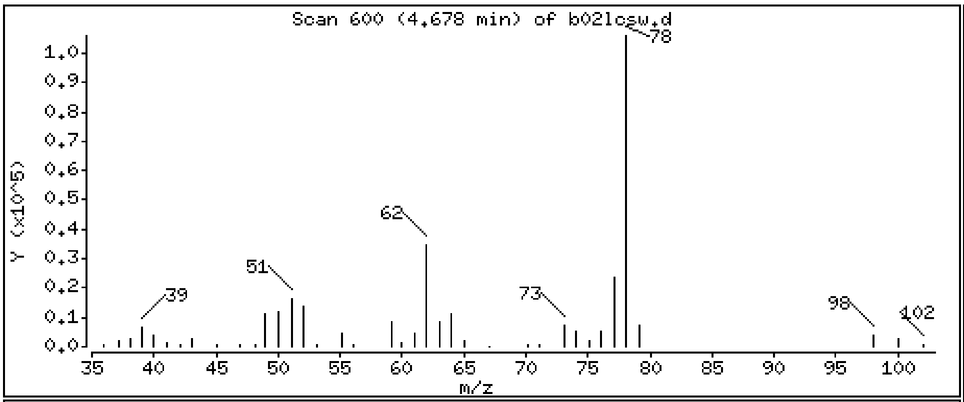
Client ID: Instrument: 50mvcb.i

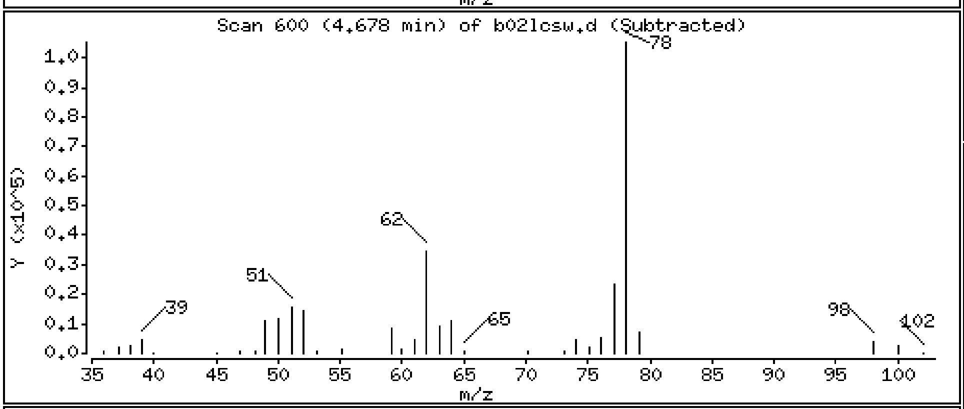
Sample Info: 3288023,335755:5

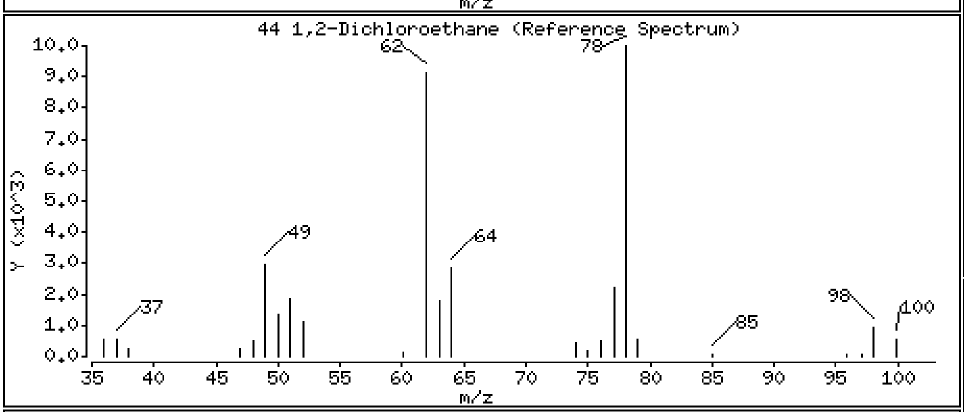
Purge Volume: 5.0 Operator: tkg

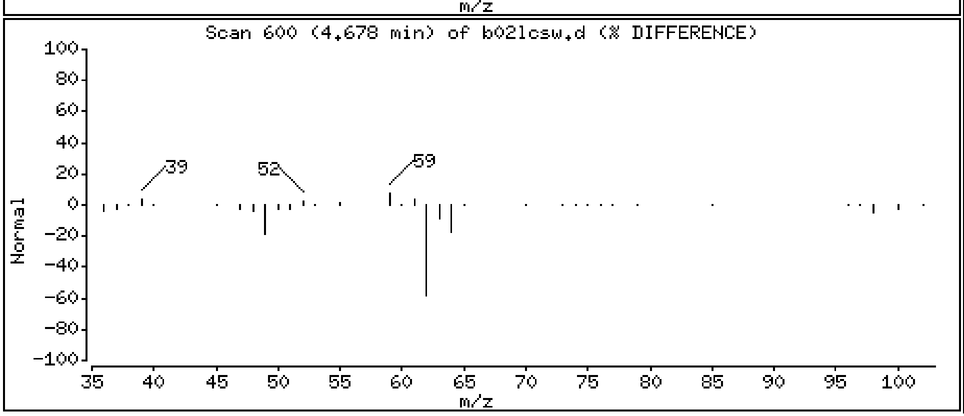
Column phase: DB-624 Column diameter: 0.18

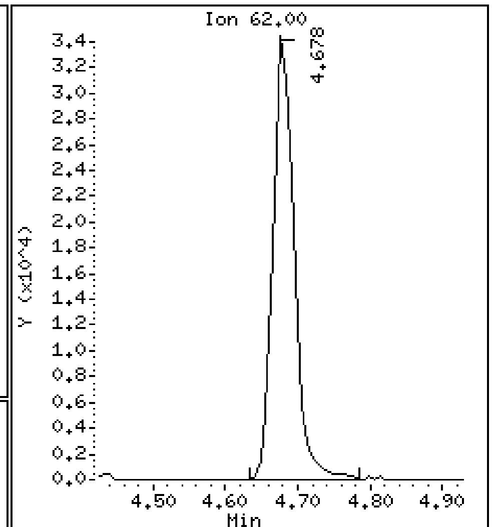
44 1,2-Dichloroethane Concentration: 50.7 ppb Review Code:

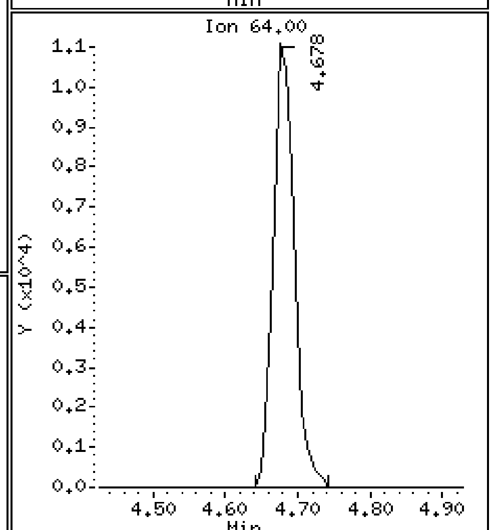


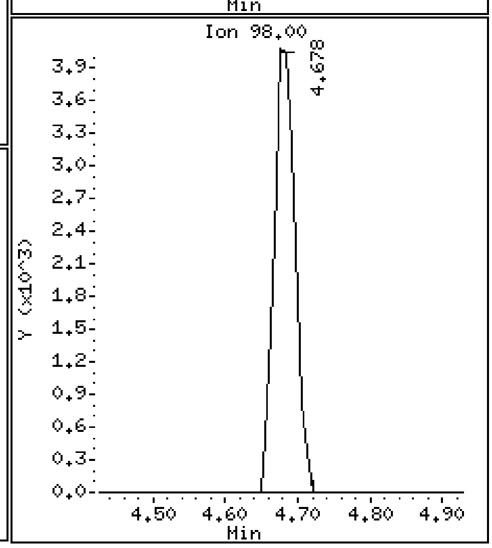












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Date : 24-JAN-2023 13:31

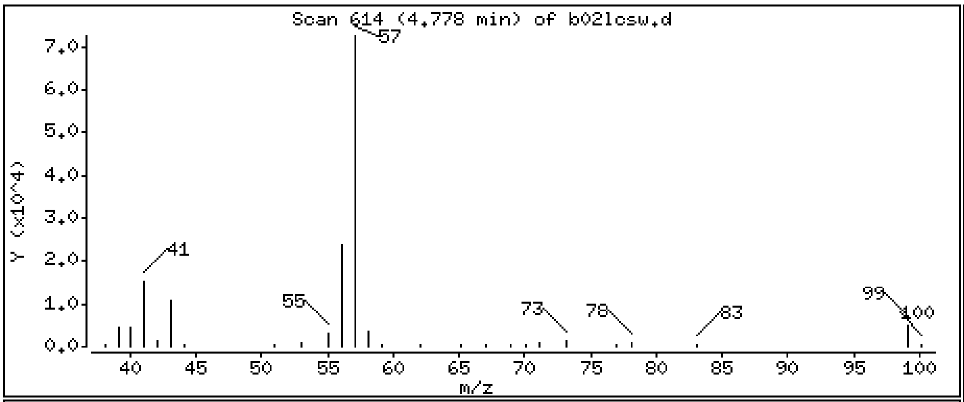
Client ID: Instrument: 50mvcb.i

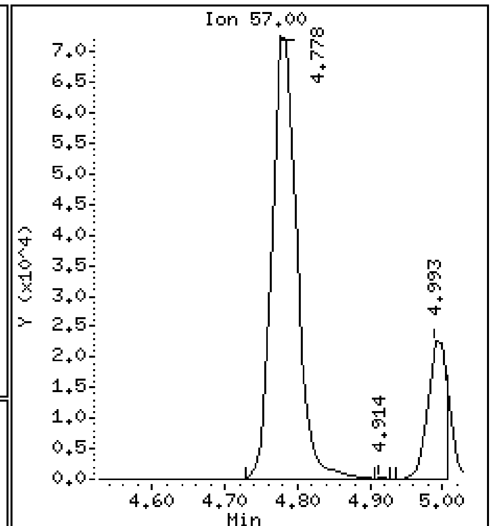
Sample Info: 3288023,335755:5

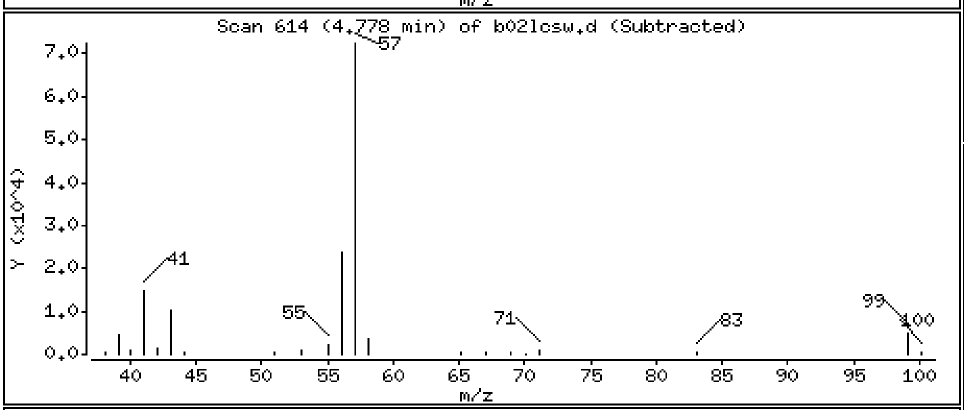
Purge Volume: 5.0 Operator: tkg

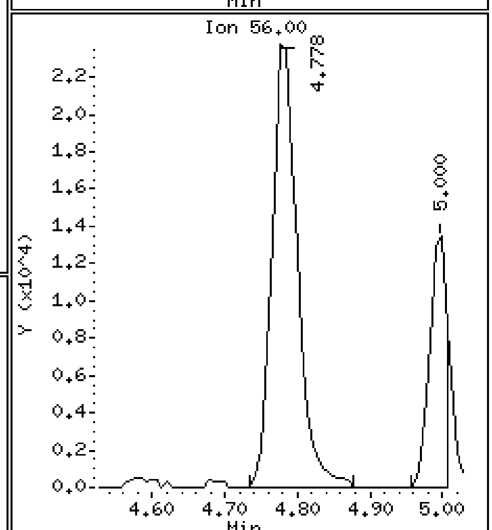
Column phase: DB-624 Column diameter: 0.18

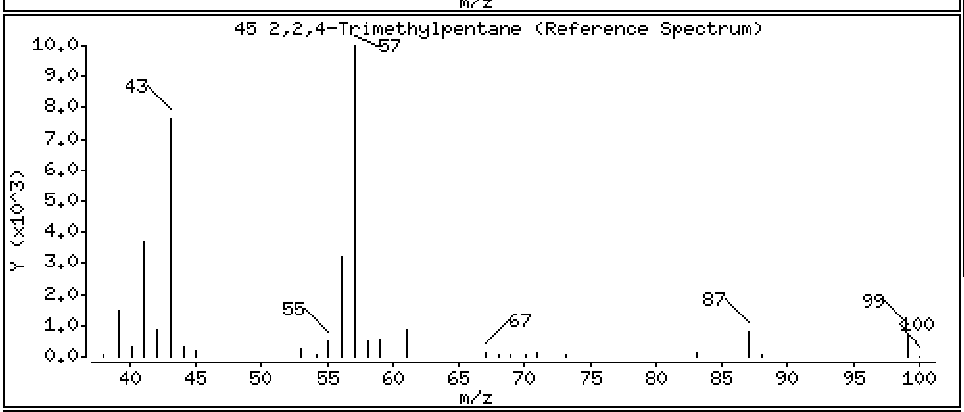
45 2,2,4-Trimethylpentane Concentration: 55.2 ppb Review Code:

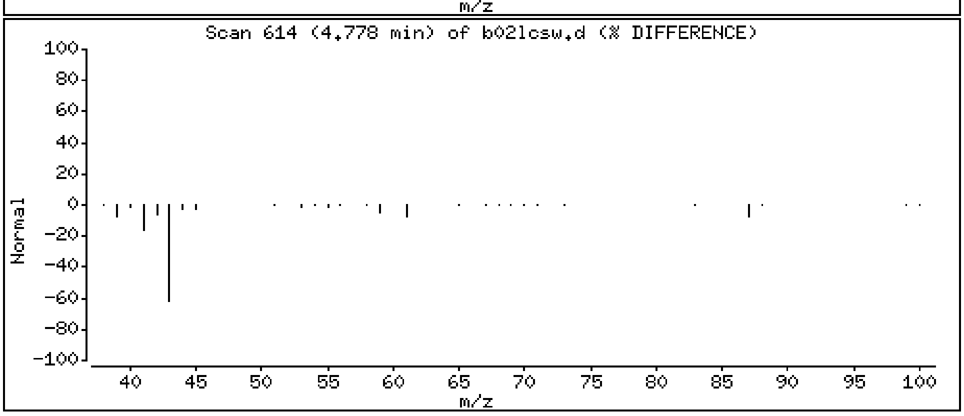












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

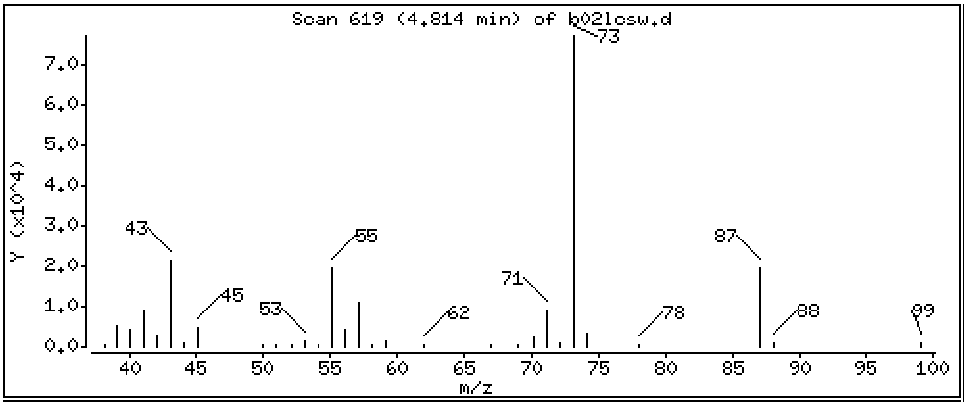
Column phase: DB-624

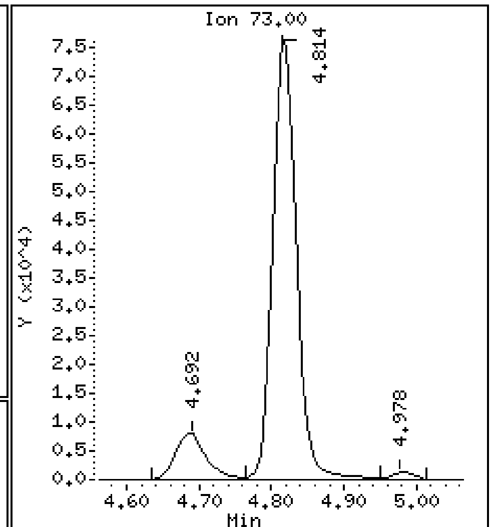
Column diameter: 0.18

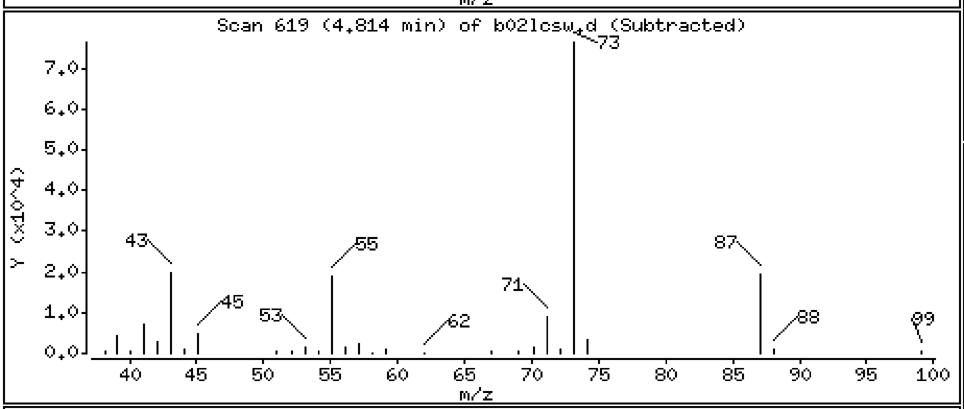
46 tert-Amylmethyl ether

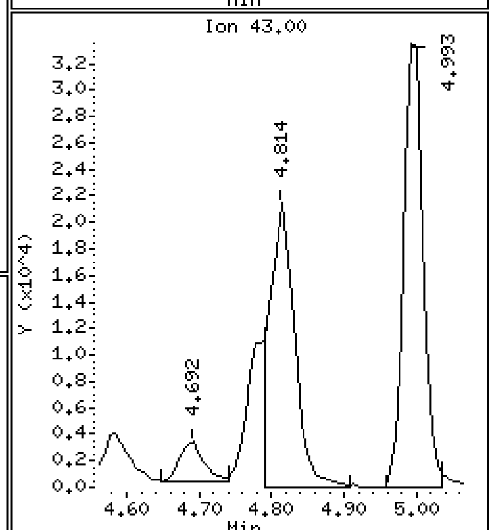
Concentration: 48.3 ppb

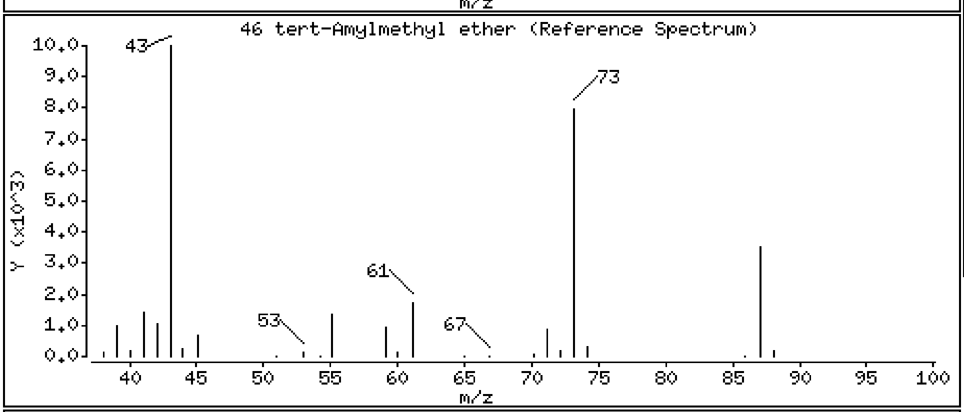
Review Code:

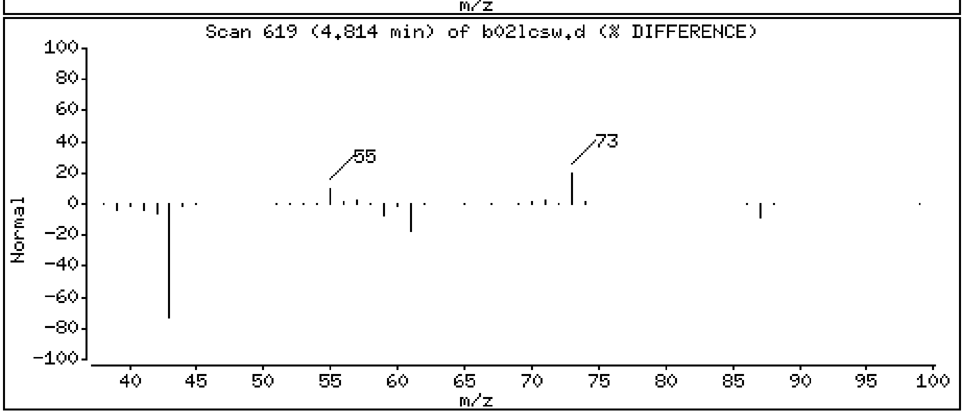












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d

Date : 24-JAN-2023 13:31

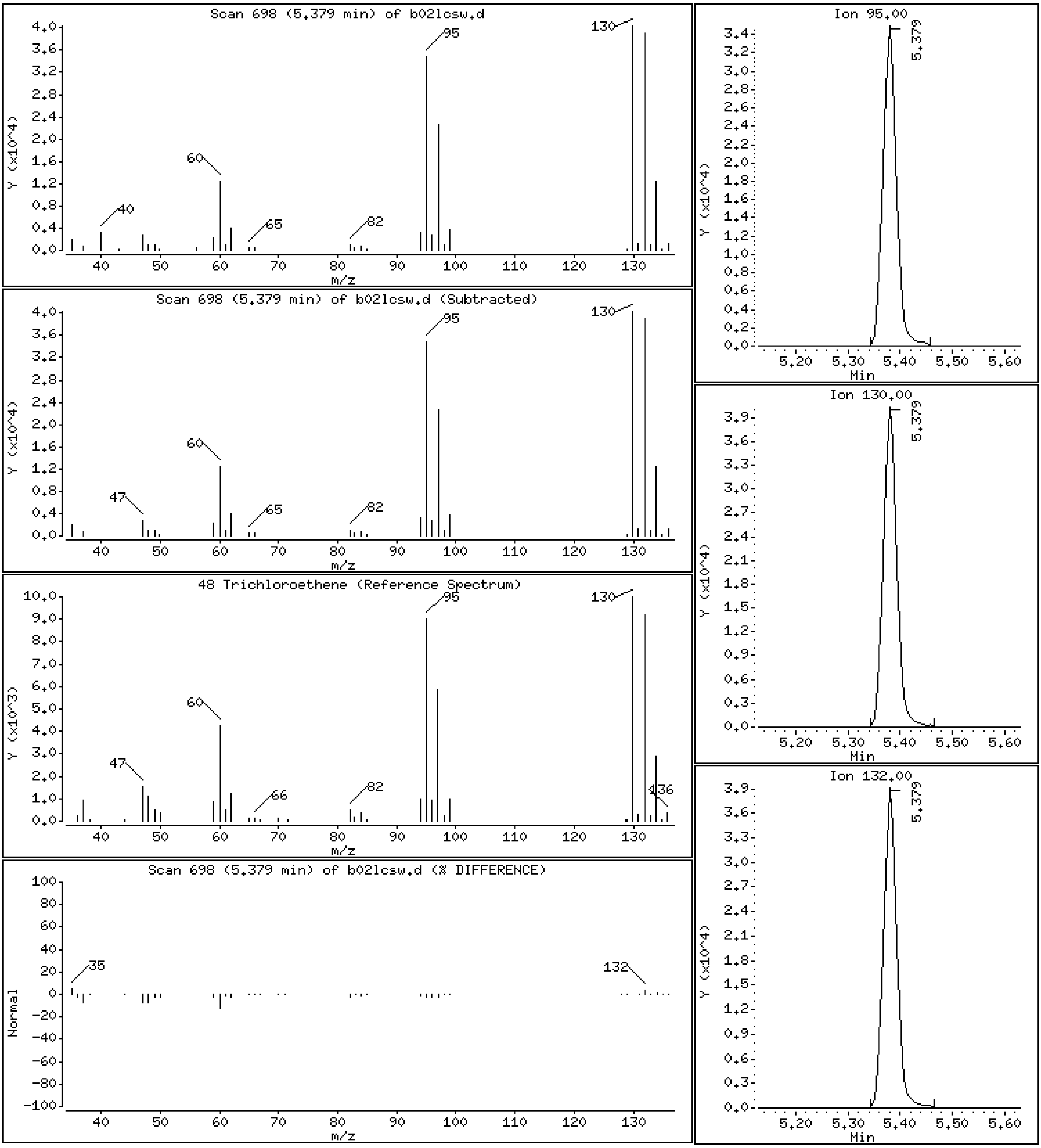
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

48 Trichloroethene Concentration: 44.9 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

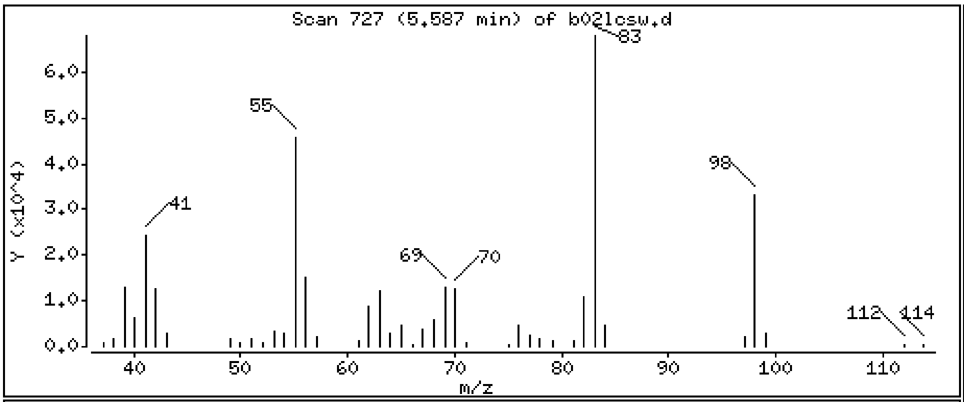
Column phase: DB-624

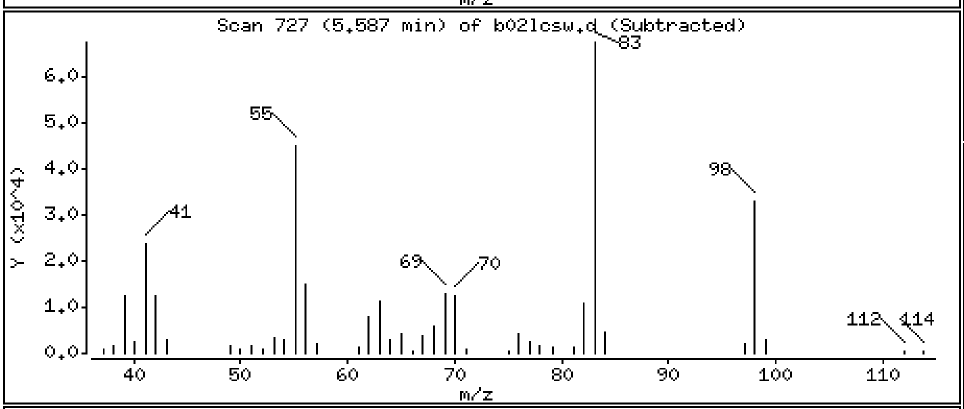
Column diameter: 0.18

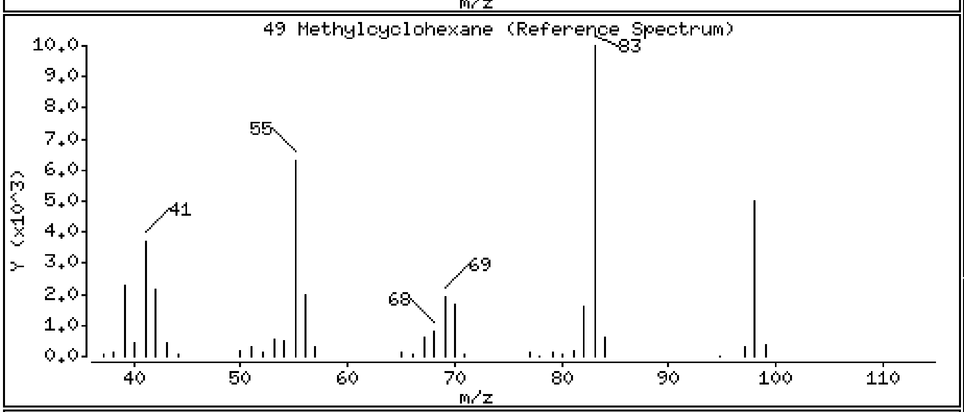
49 Methylcyclohexane

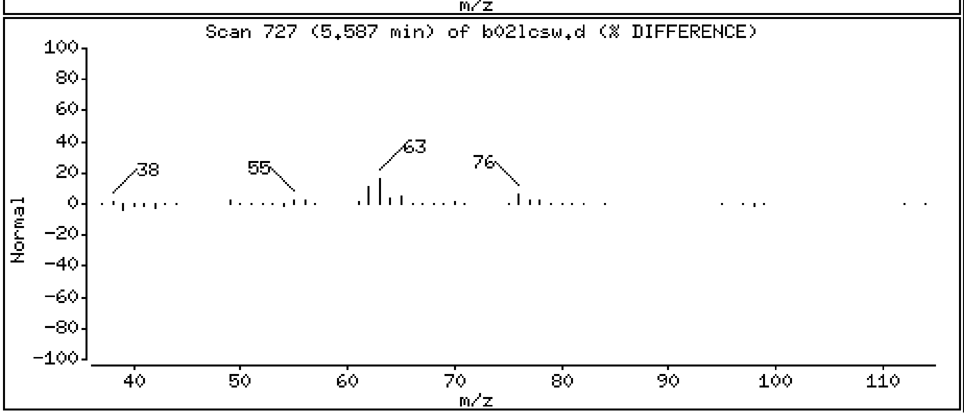
Concentration: 57.3 ppb

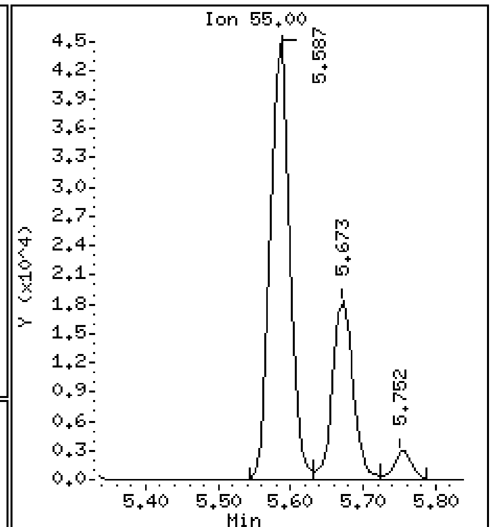
Review Code:

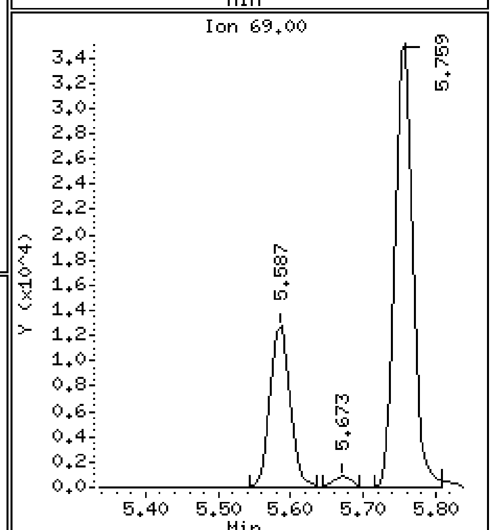


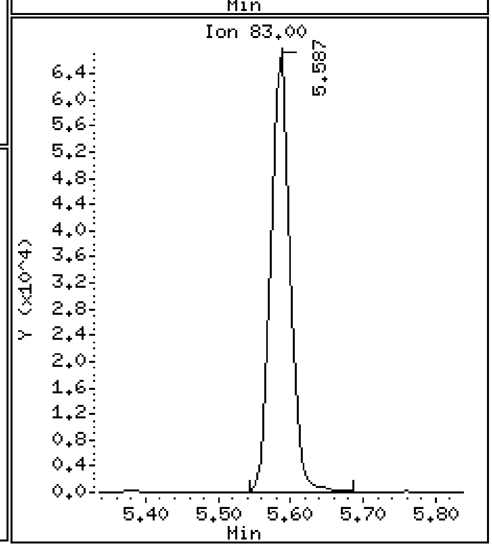












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

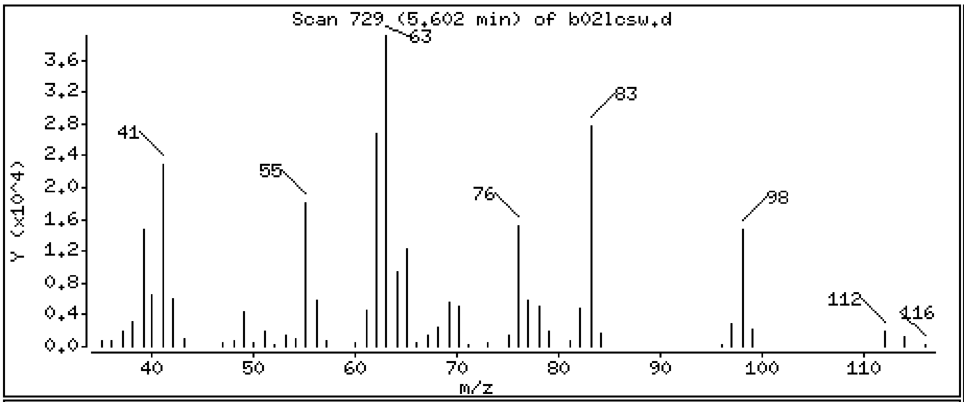
Column phase: DB-624

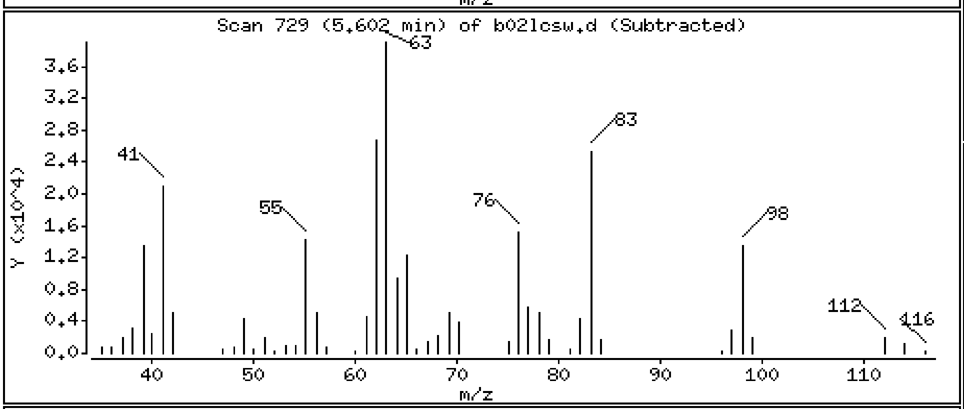
Column diameter: 0.18

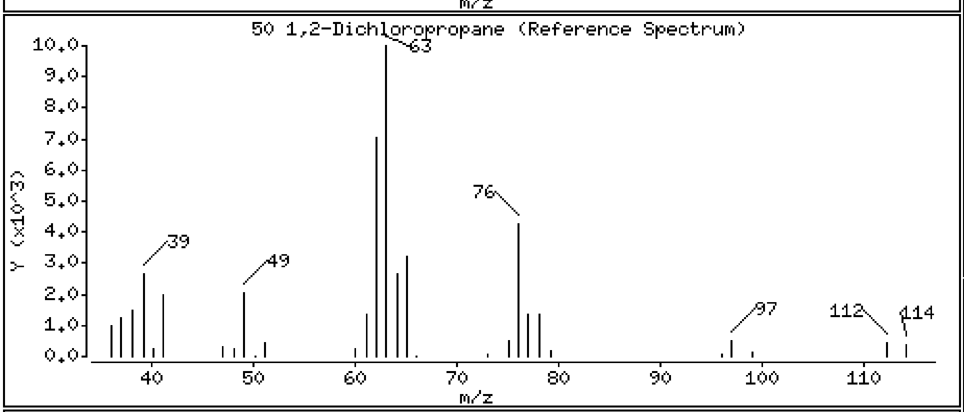
50 1,2-Dichloropropane

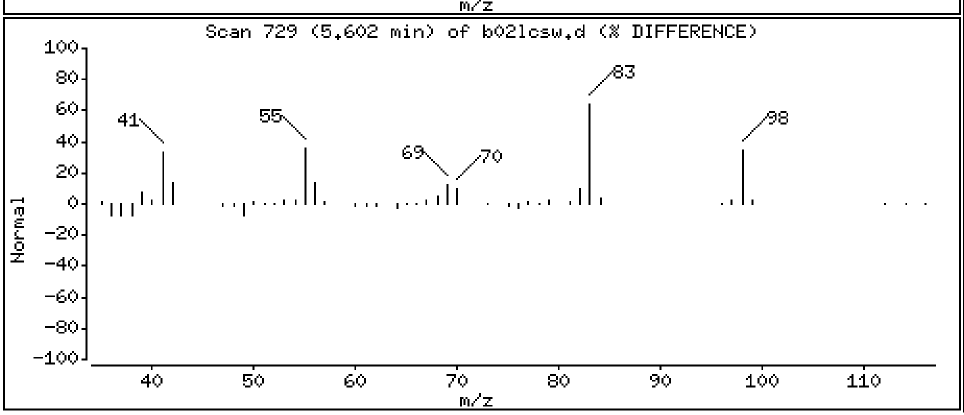
Concentration: 58.0 ppb

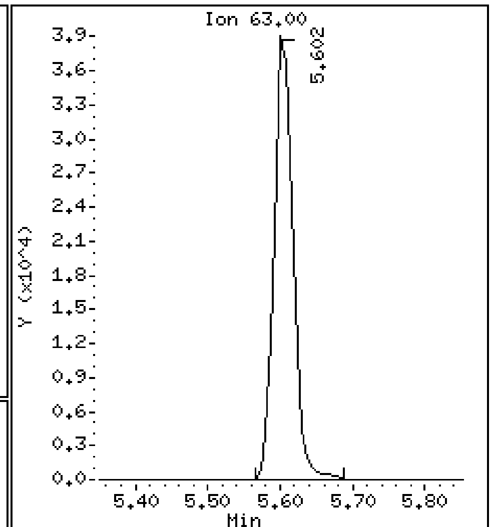
Review Code:

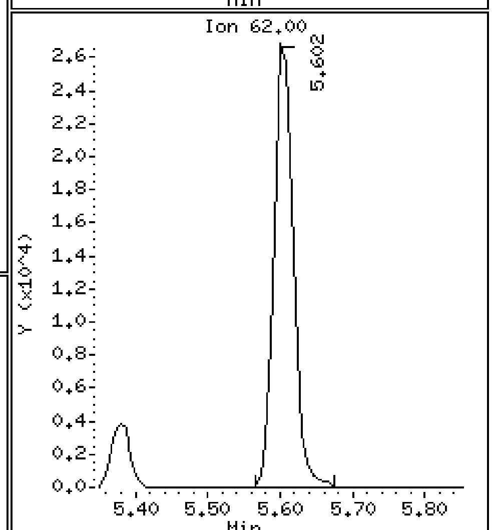


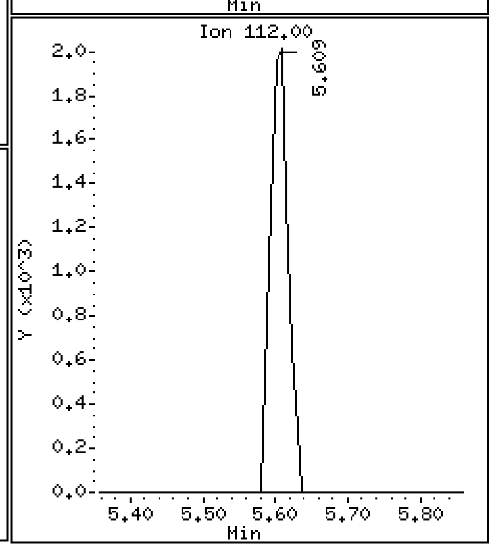












Date : 24-JAN-2023 13:31

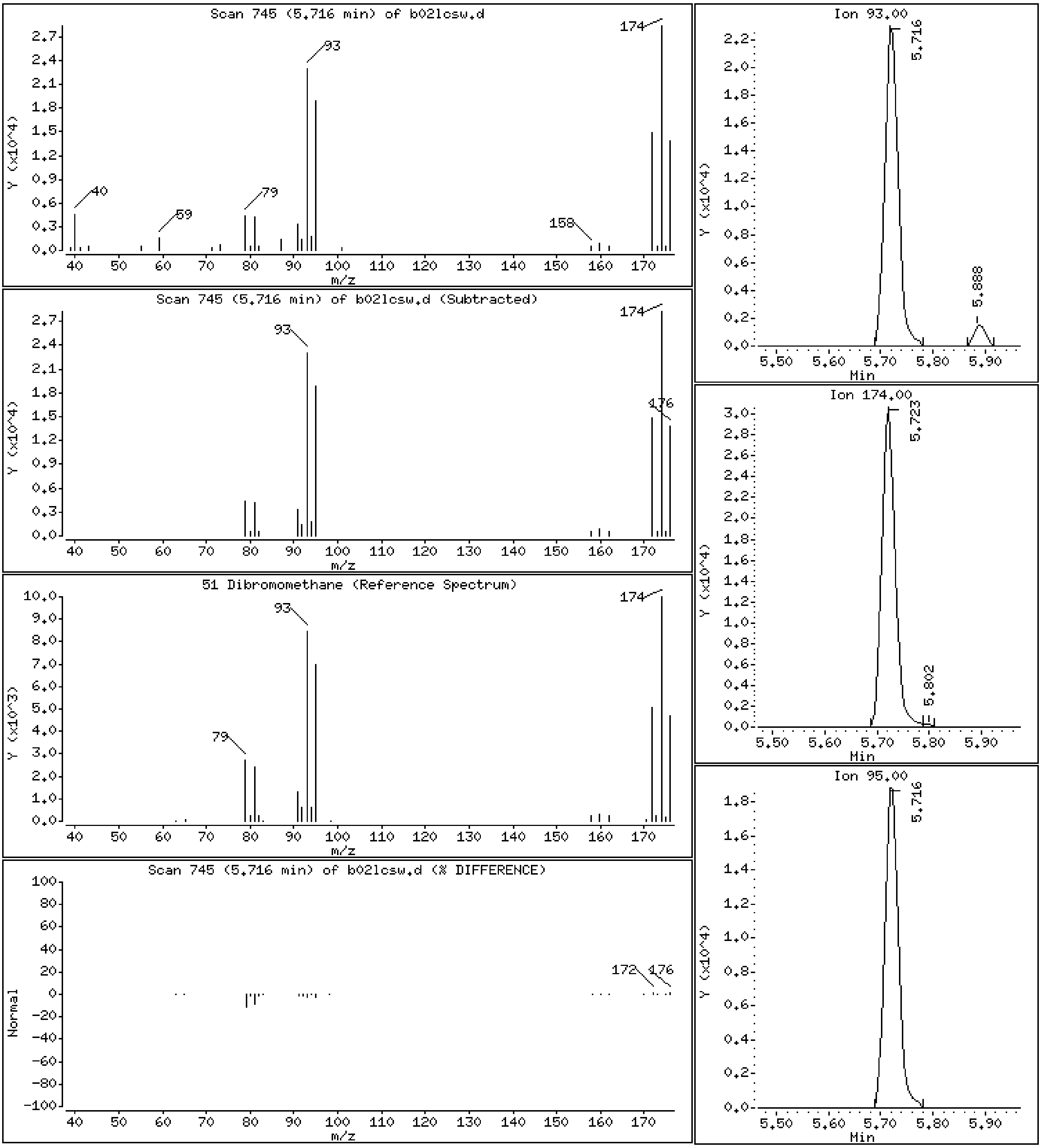
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

51 Dibromomethane Concentration: 52.4 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

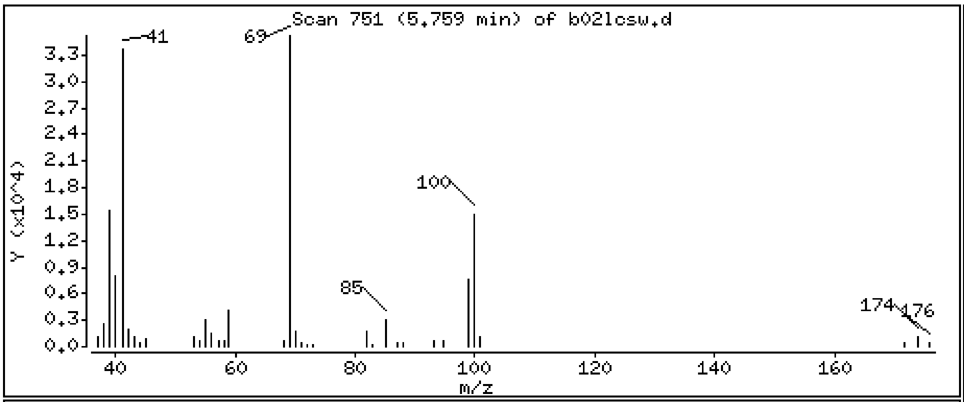
Column phase: DB-624

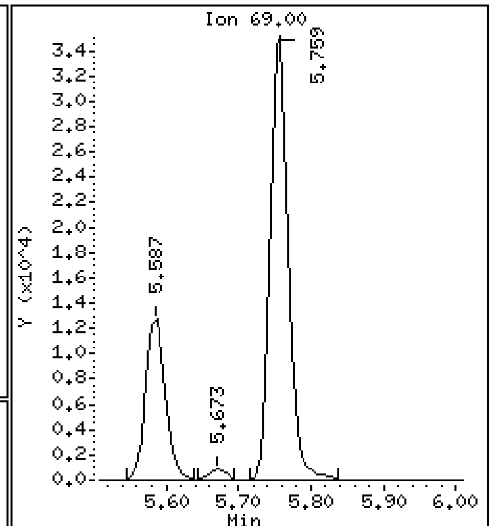
Column diameter: 0.18

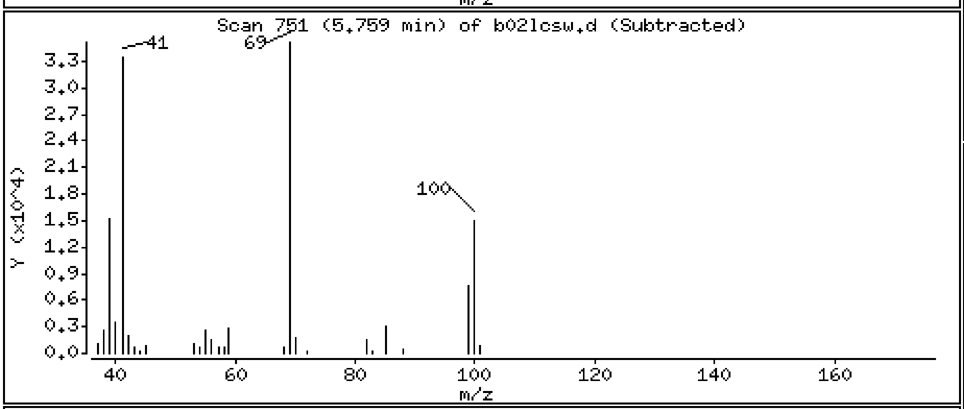
52 Methyl methacrylate

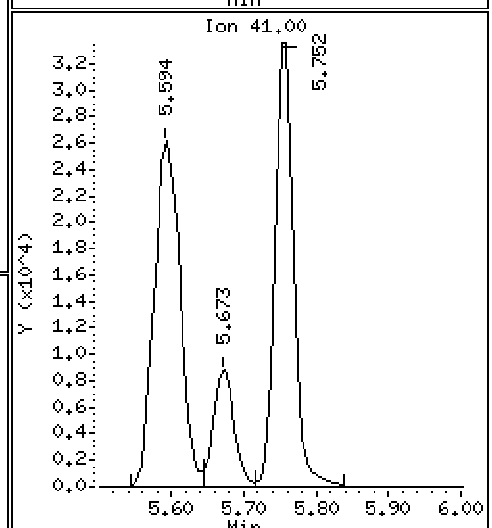
Concentration: 61.4 ppb

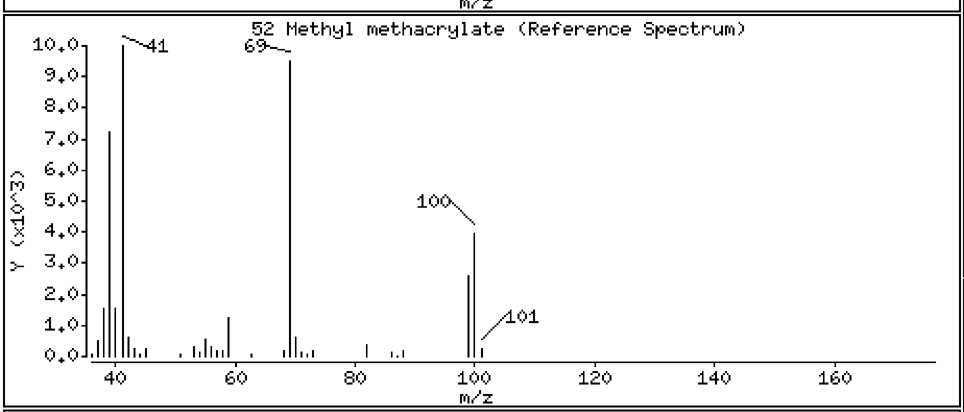
Review Code:

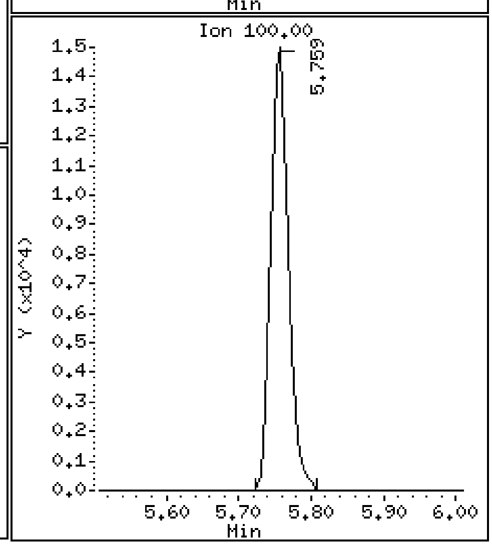


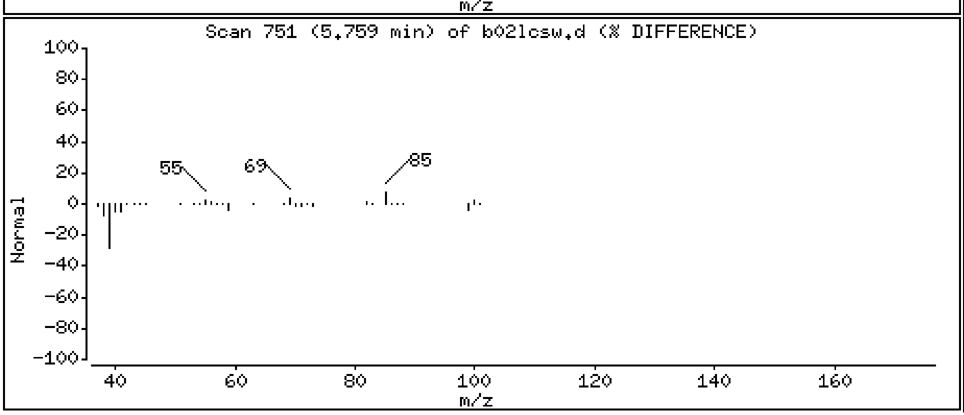












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

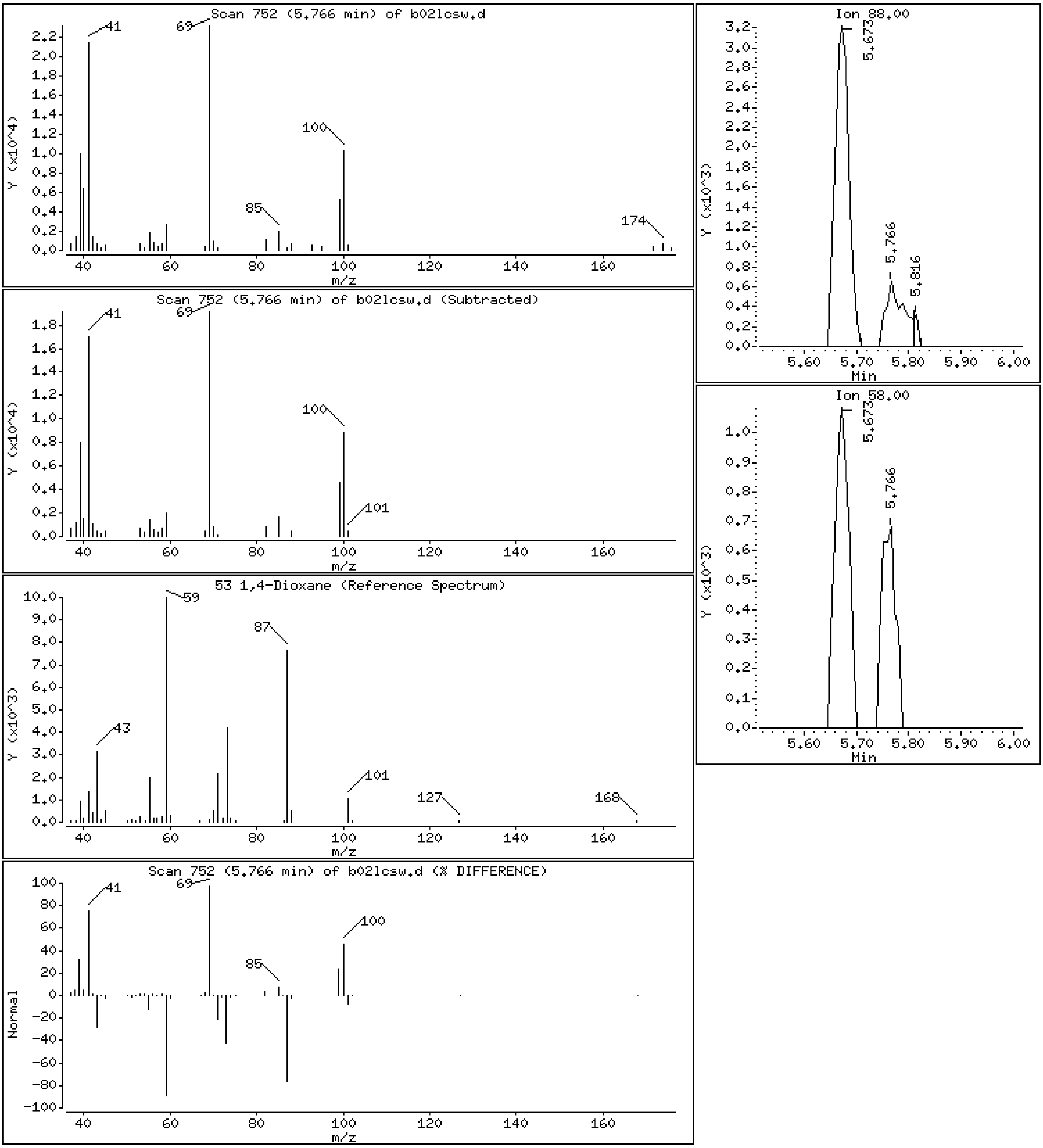
Column phase: DB-624

Column diameter: 0.18

53 1,4-Dioxane

Concentration: 442 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

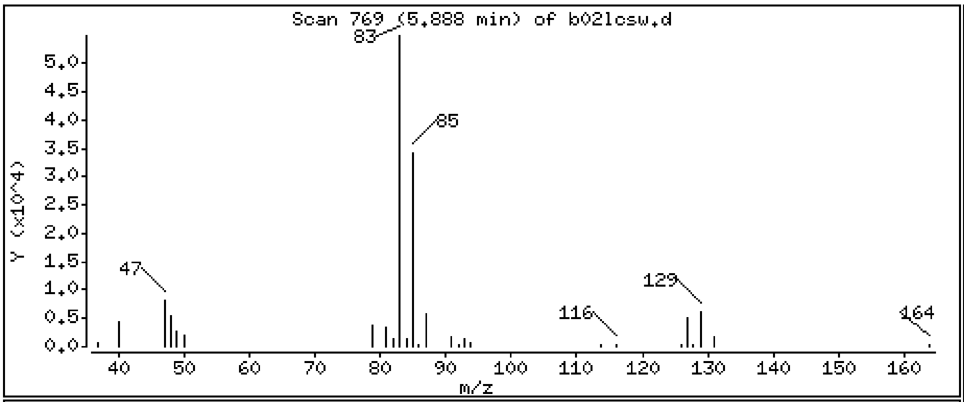
Column phase: DB-624

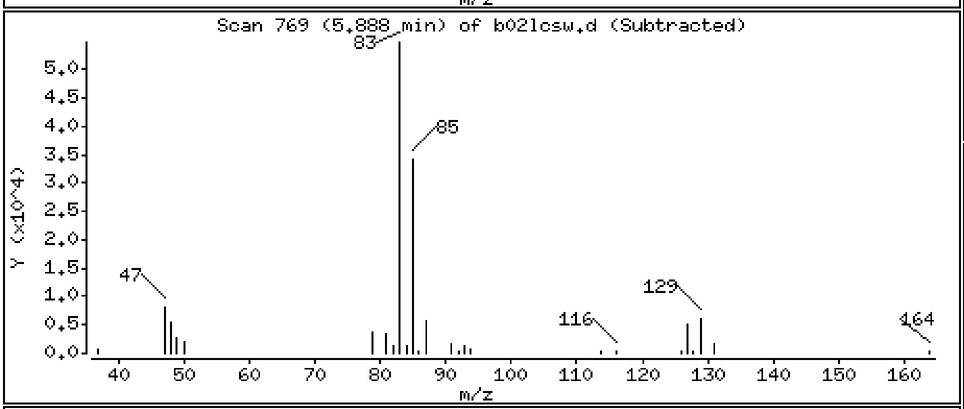
Column diameter: 0.18

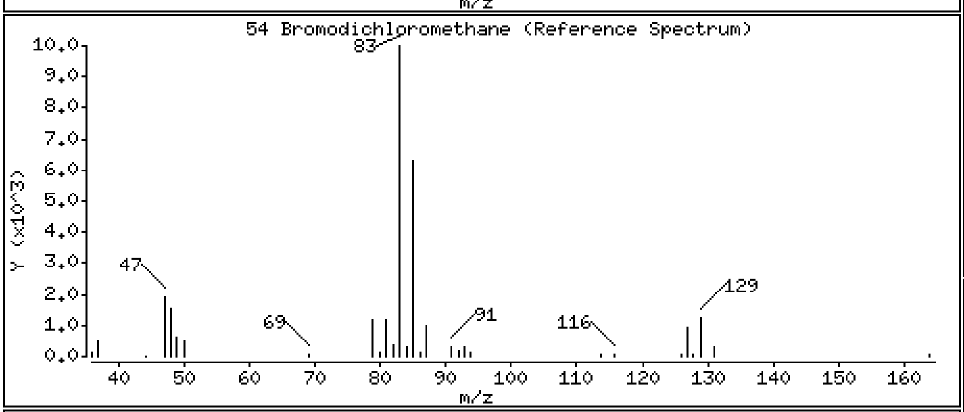
54 Bromodichloromethane

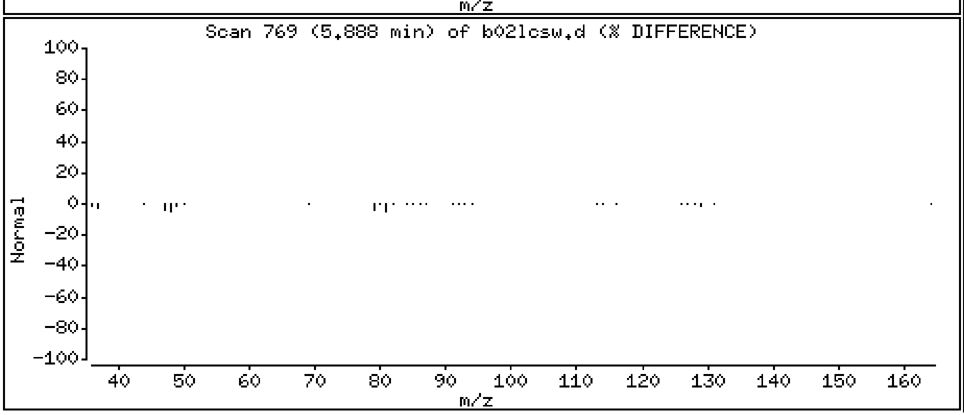
Concentration: 60.9 ppb

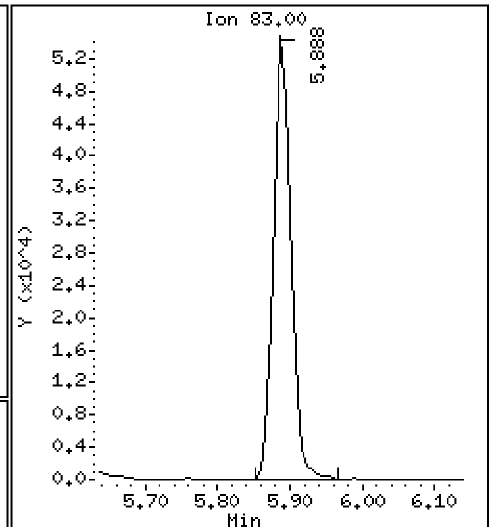
Review Code:

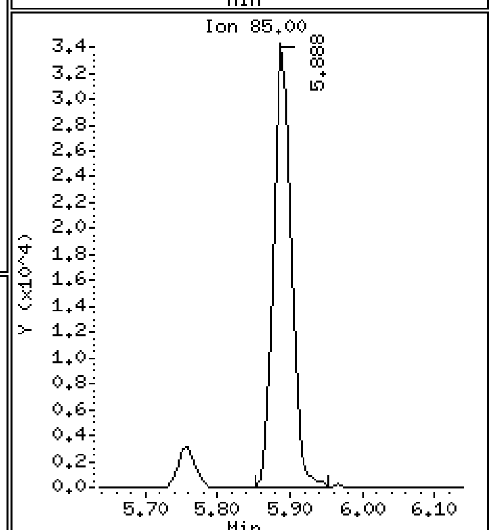


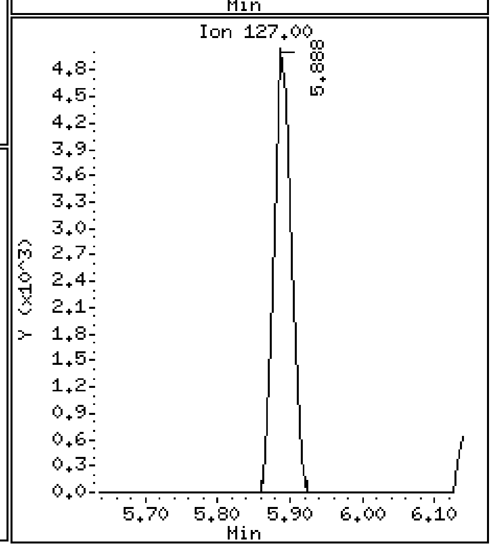












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

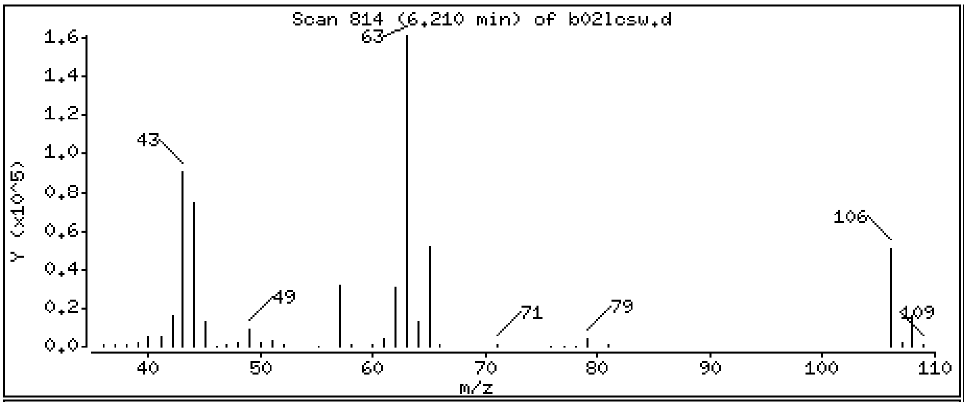
Column phase: DB-624

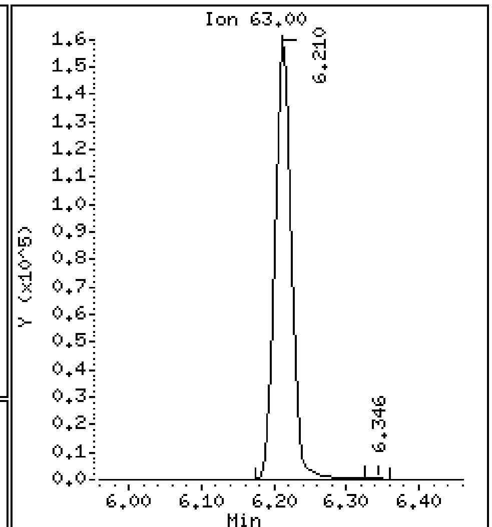
Column diameter: 0.18

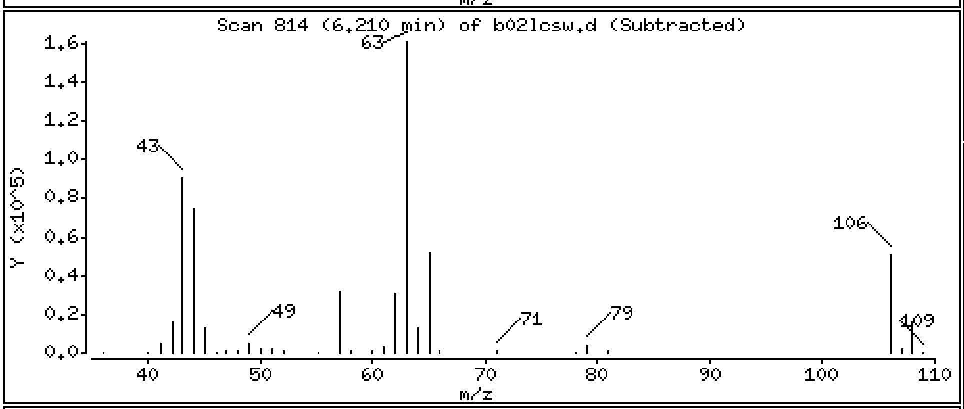
55 2-Chloroethyl vinyl ether

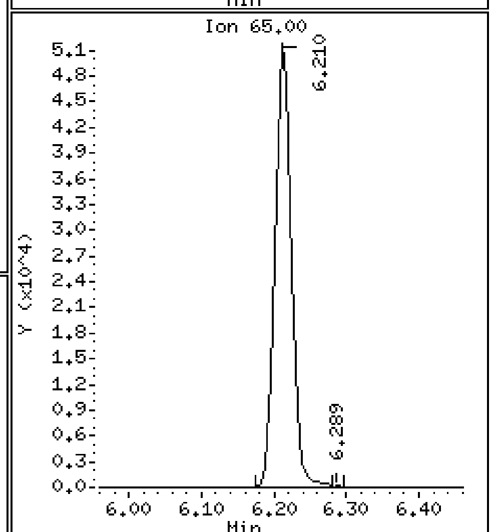
Concentration: 276 ppb

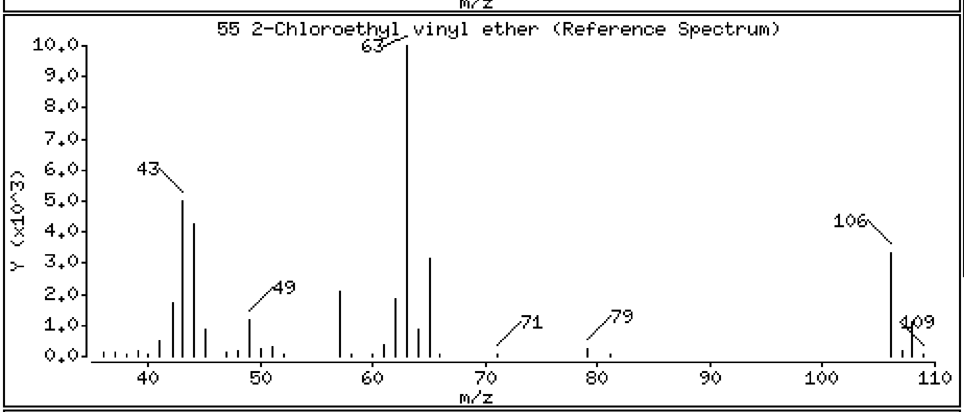
Review Code:

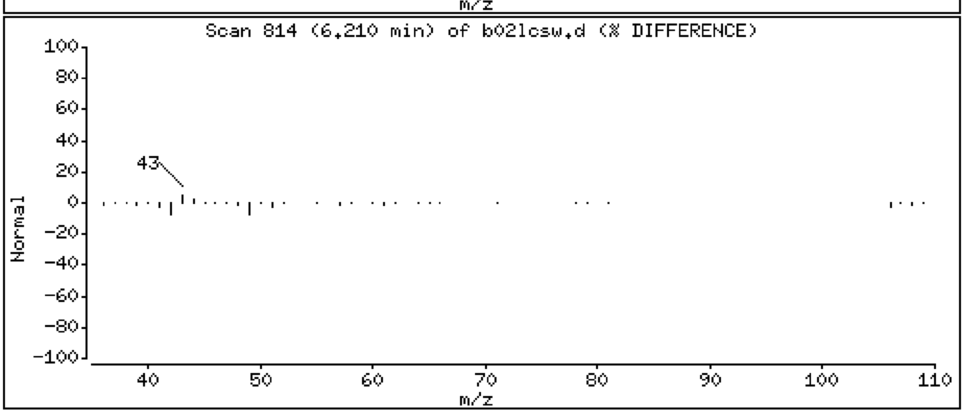












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

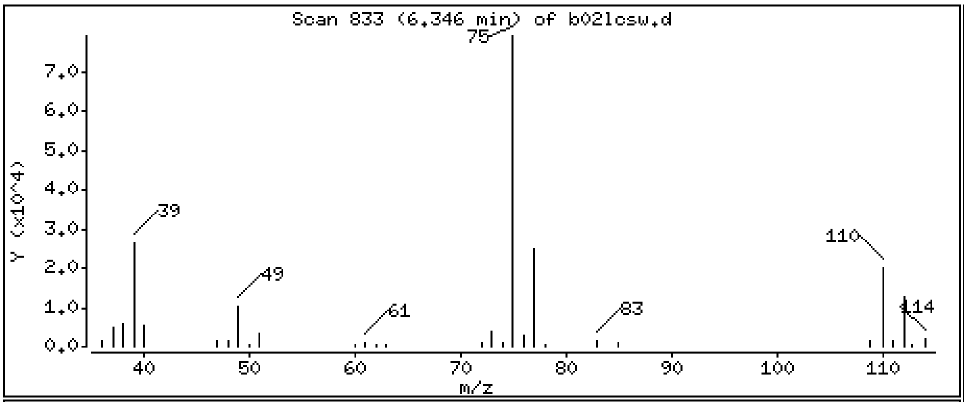
Column phase: DB-624

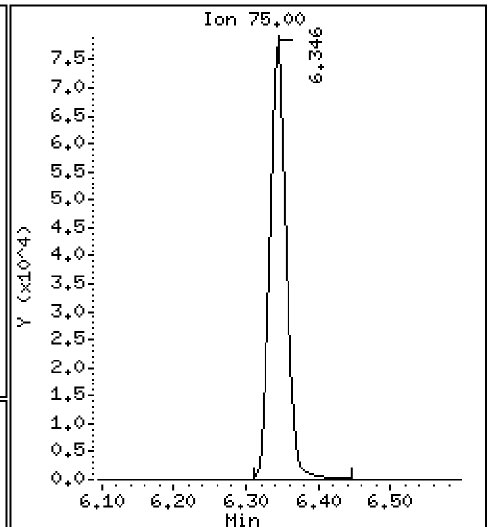
Column diameter: 0.18

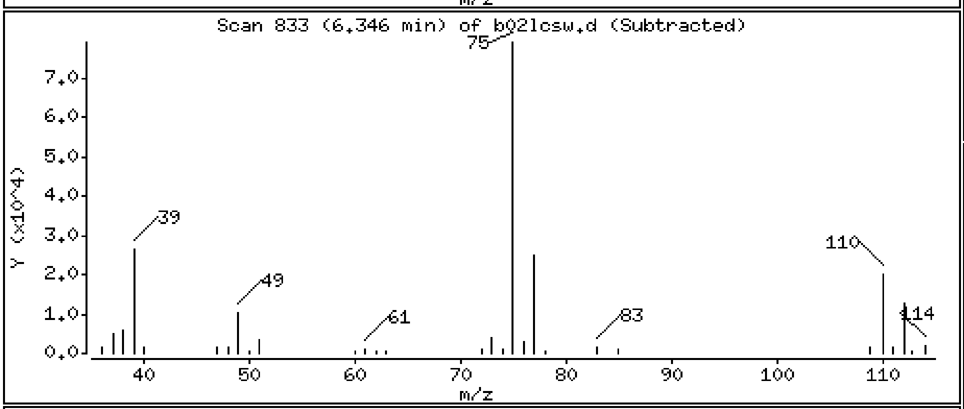
56 cis-1,3-Dichloropropene

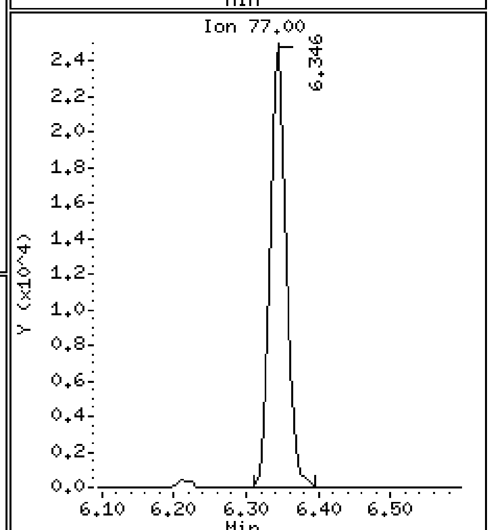
Concentration: 50.4 ppb

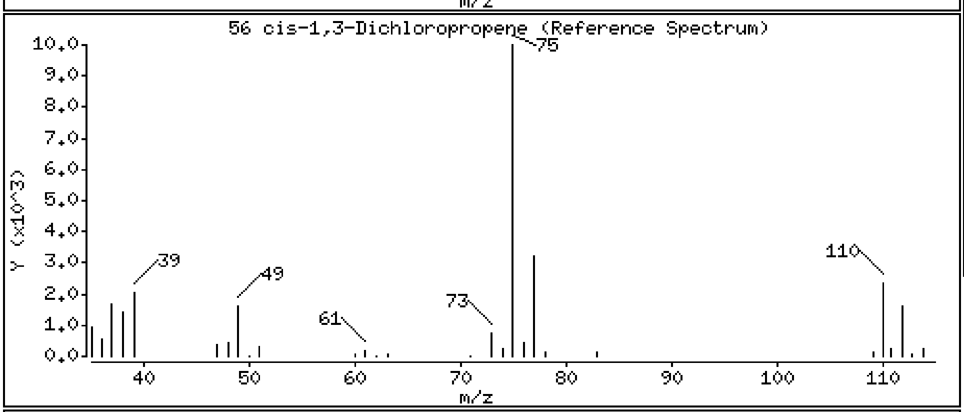
Review Code:

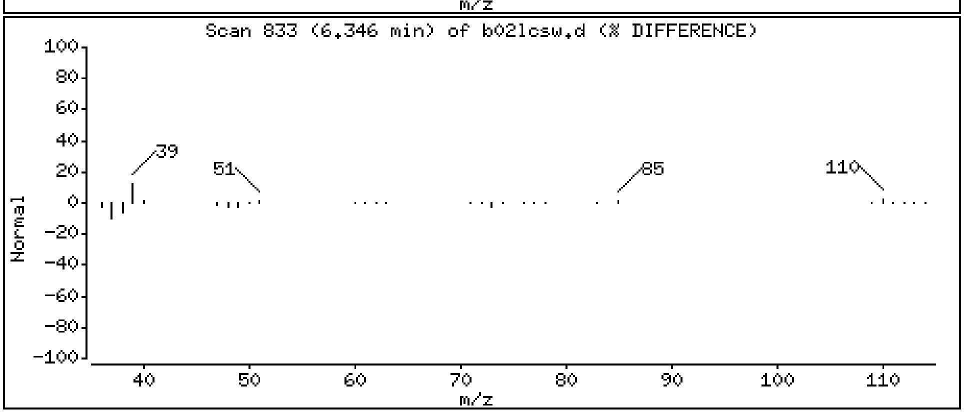












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

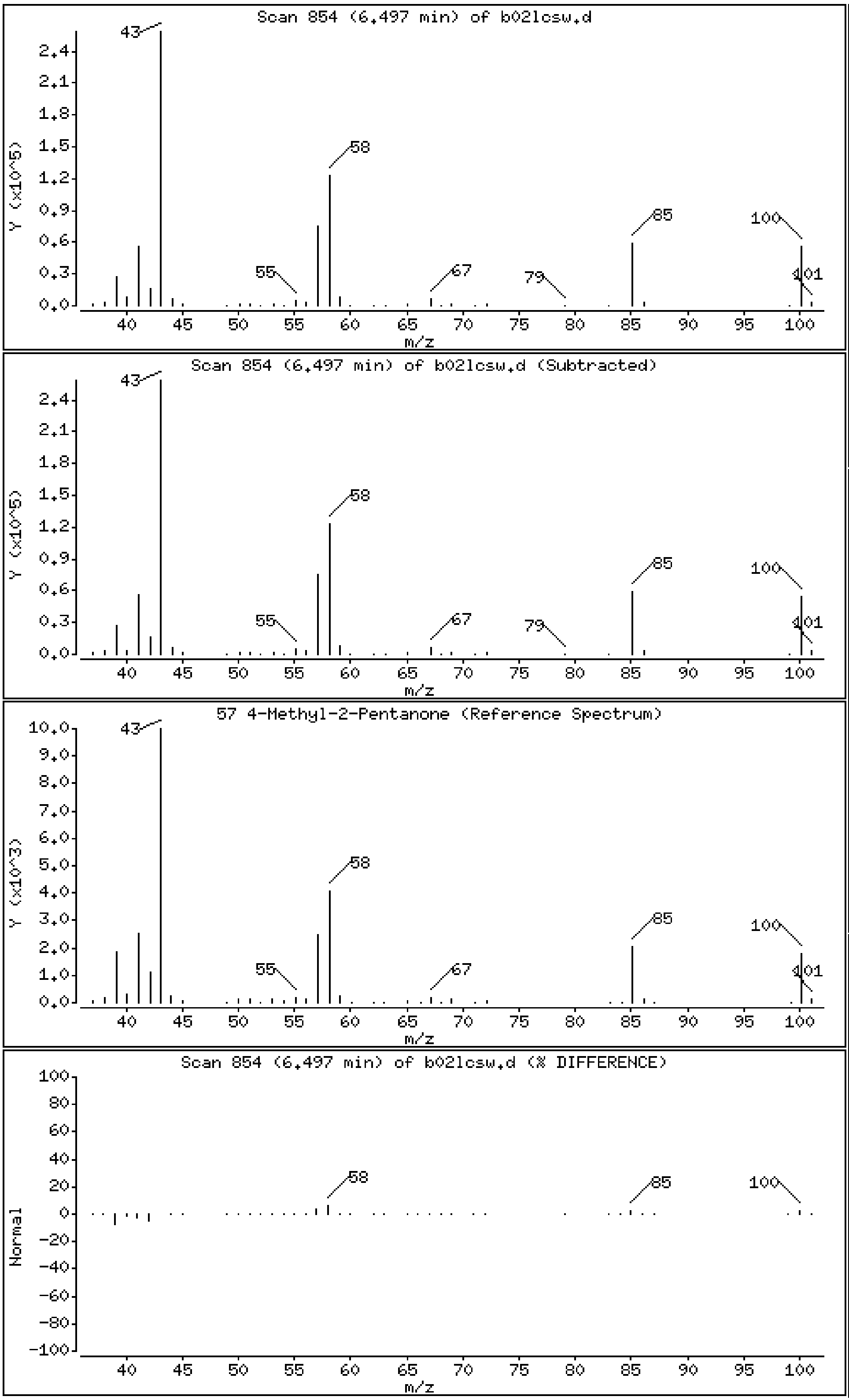
Column phase: DB-624

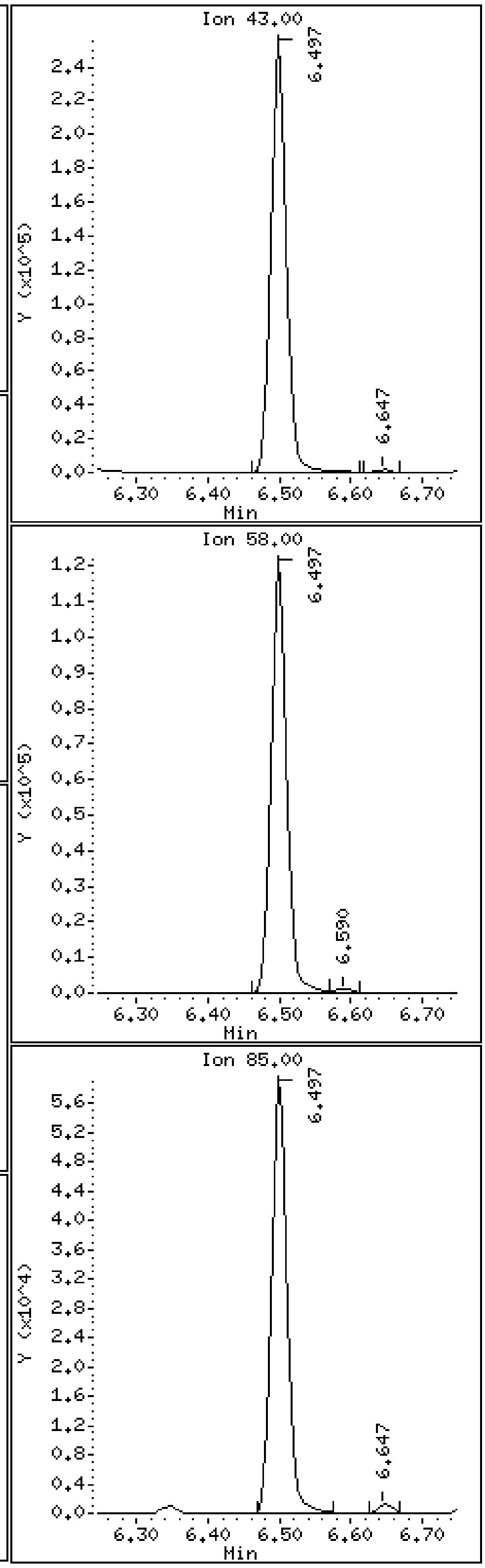
Column diameter: 0.18

57 4-Methyl-2-Pentanone

Concentration: 267 ppb

Review Code:





Date : 24-JAN-2023 13:31

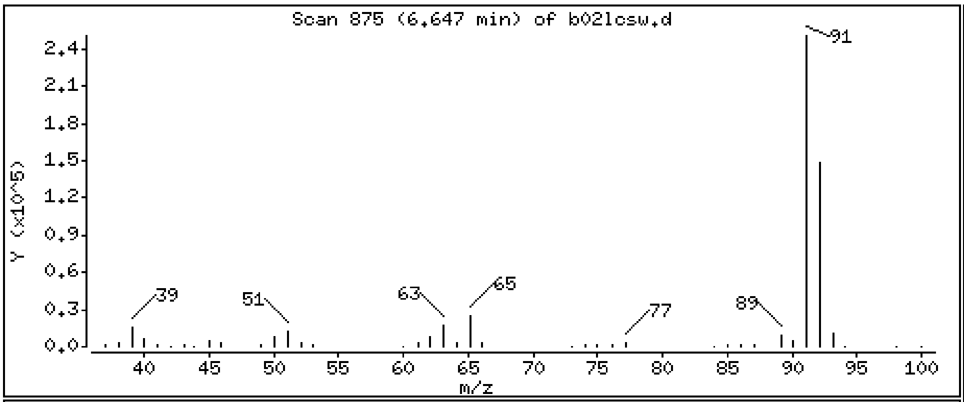
Client ID: Instrument: 50mvcb.i

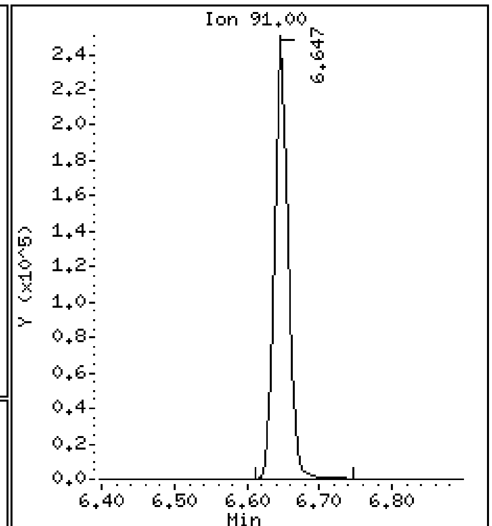
Sample Info: 3288023,335755:5

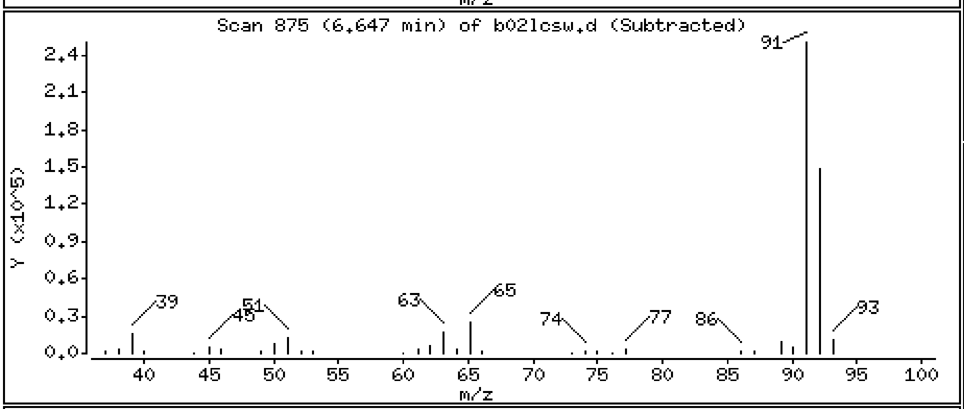
Purge Volume: 5.0 Operator: tkg

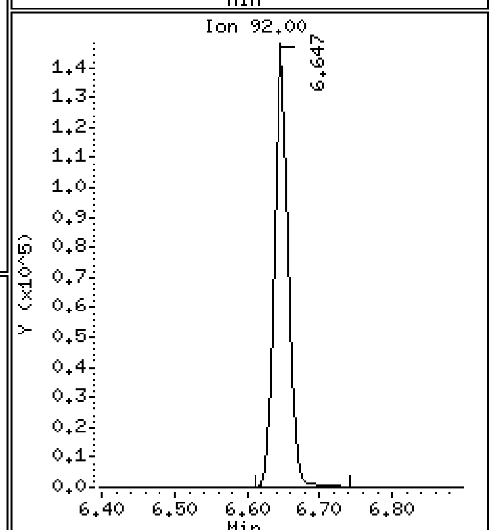
Column phase: DB-624 Column diameter: 0.18

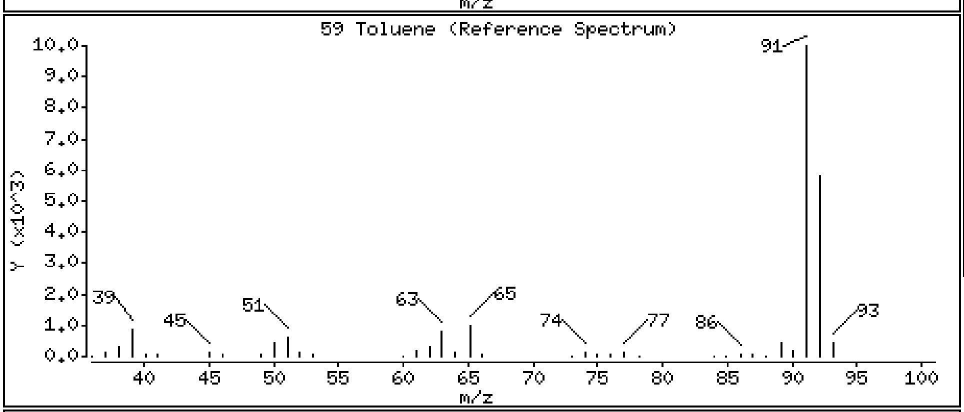
59 Toluene Concentration: 48.6 ppb Review Code:

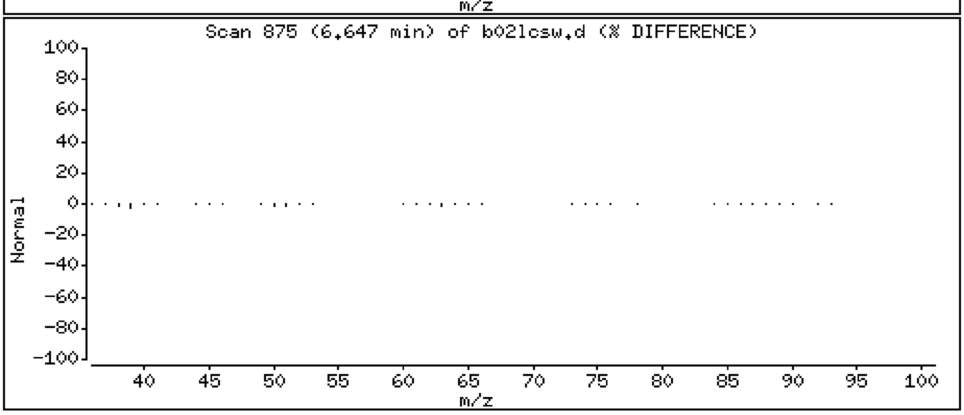












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

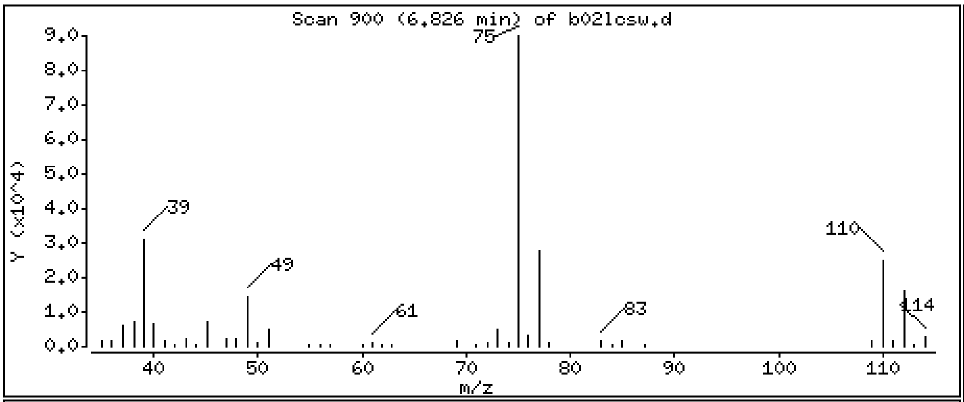
Column phase: DB-624

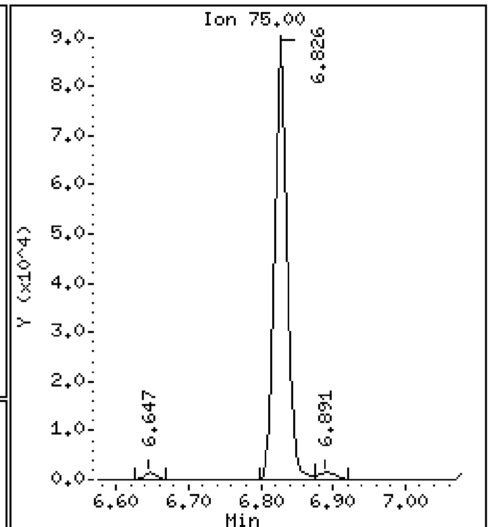
Column diameter: 0.18

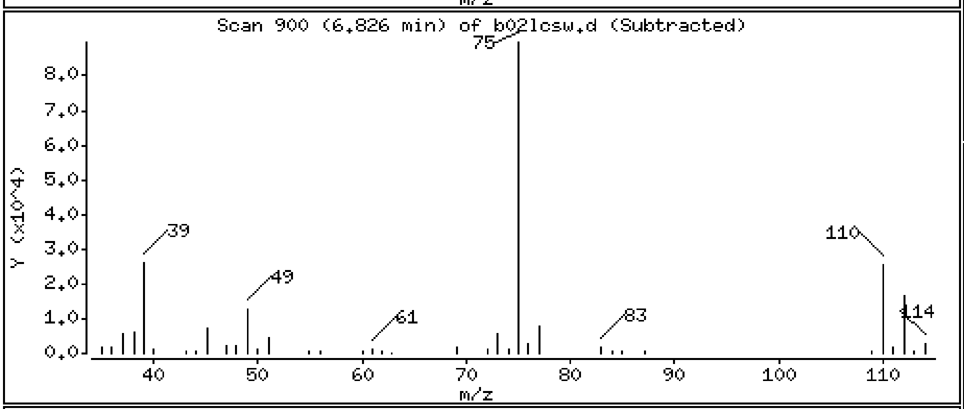
60 trans-1,3-Dichloropropene

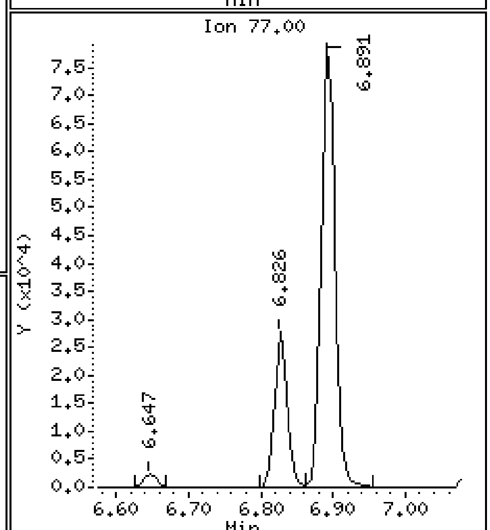
Concentration: 49.8 ppb

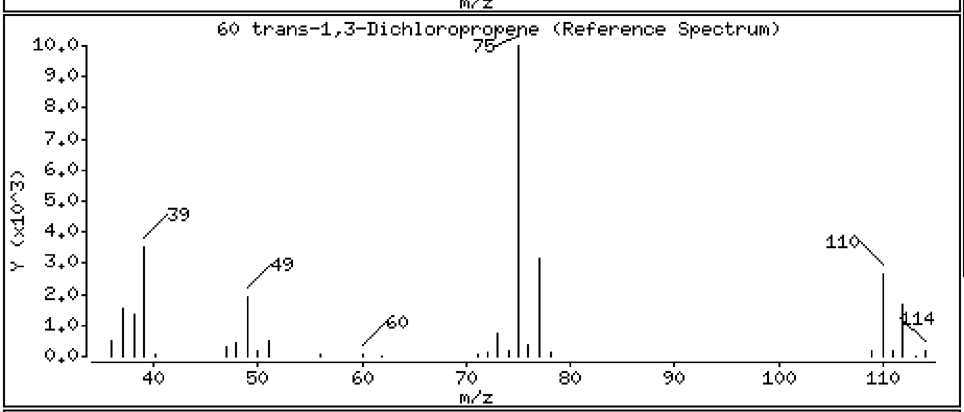
Review Code:

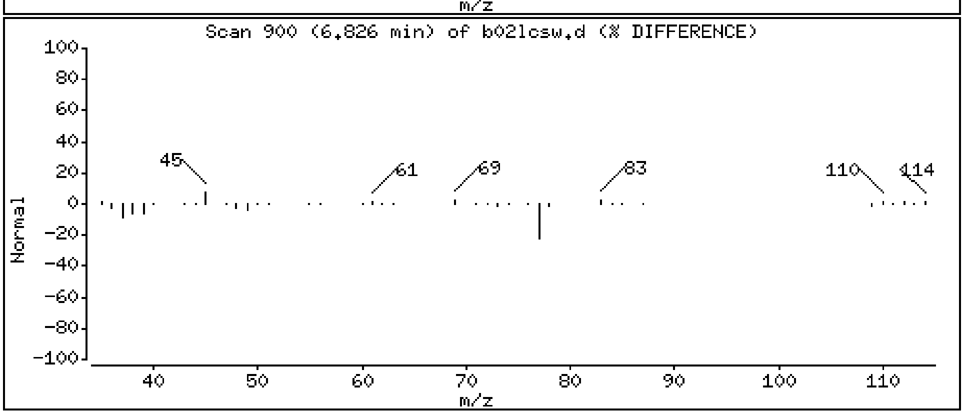












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

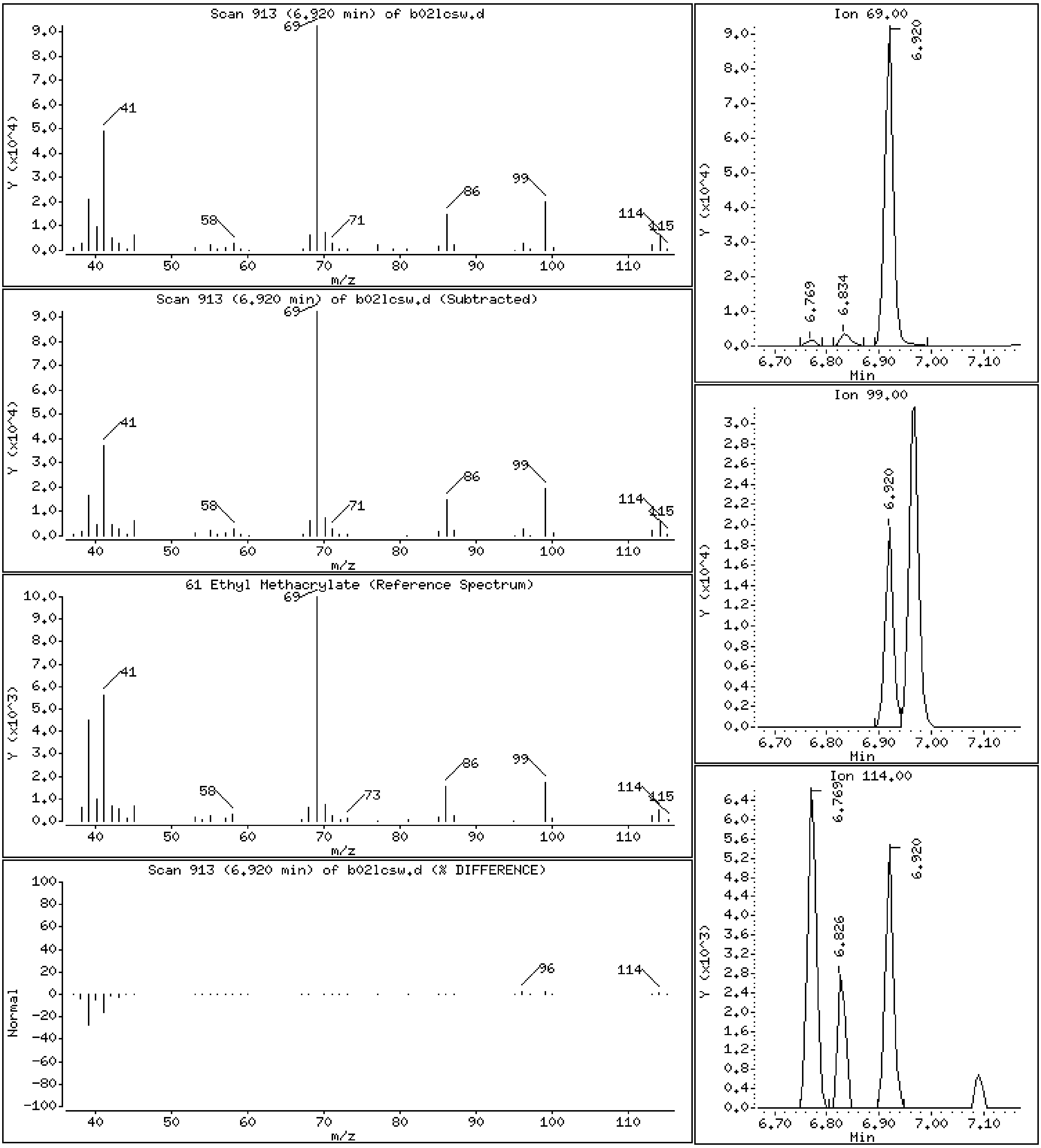
Column phase: DB-624

Column diameter: 0.18

61 Ethyl Methacrylate

Concentration: 53.2 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

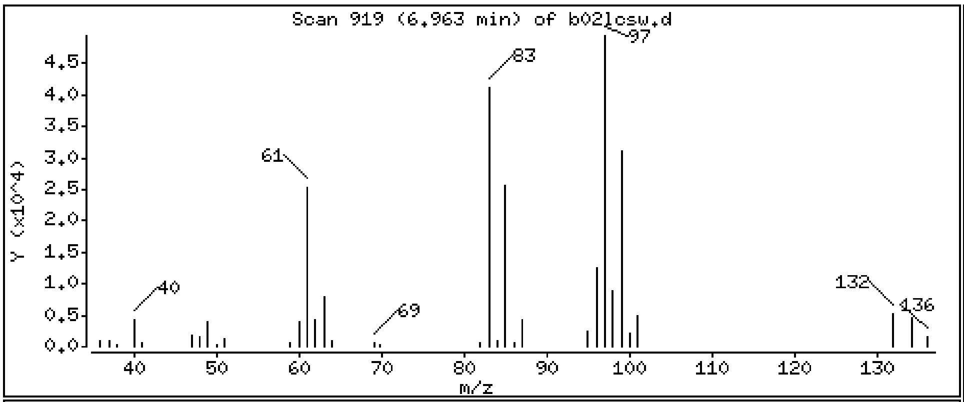
Column phase: DB-624

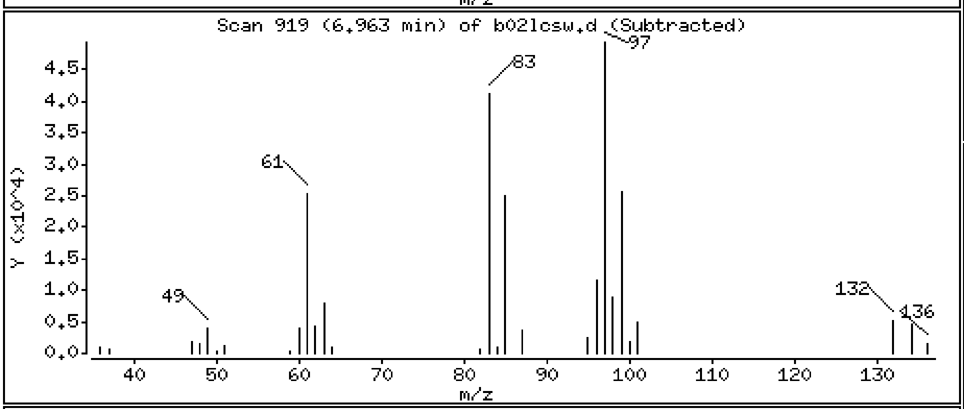
Column diameter: 0.18

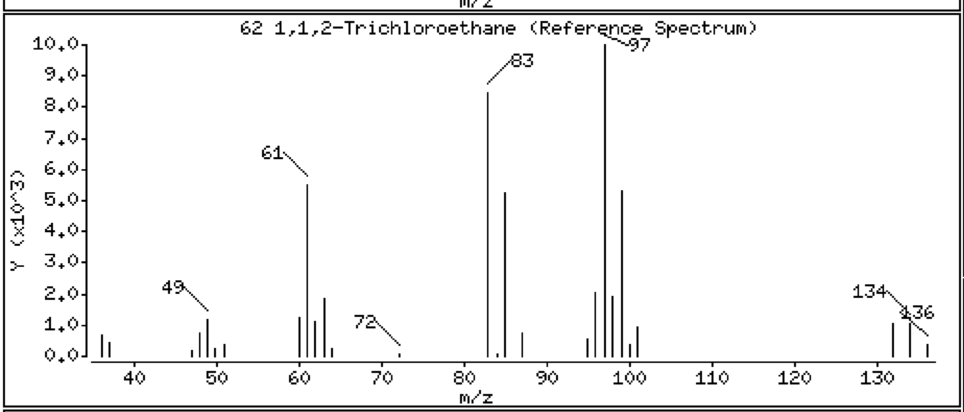
62 1,1,2-Trichloroethane

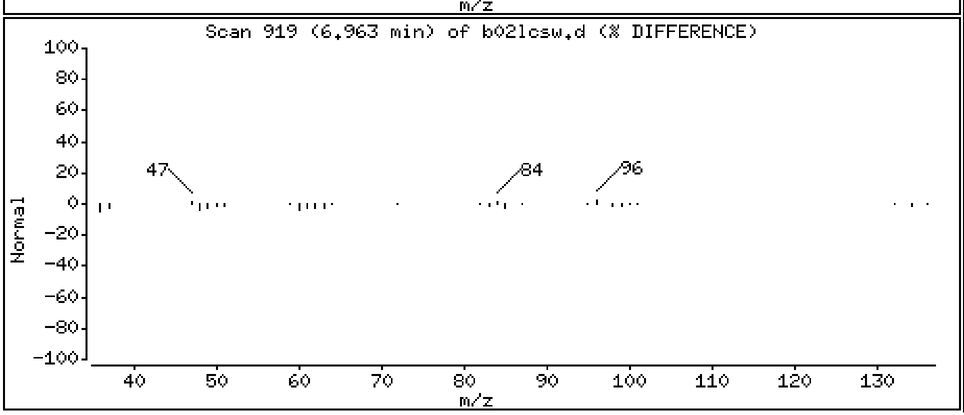
Concentration: 48.1 ppb

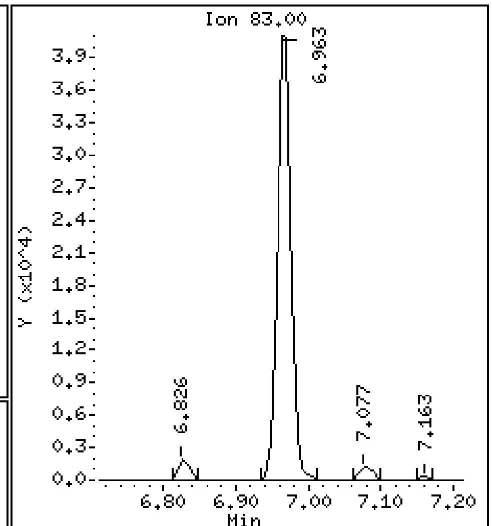
Review Code:

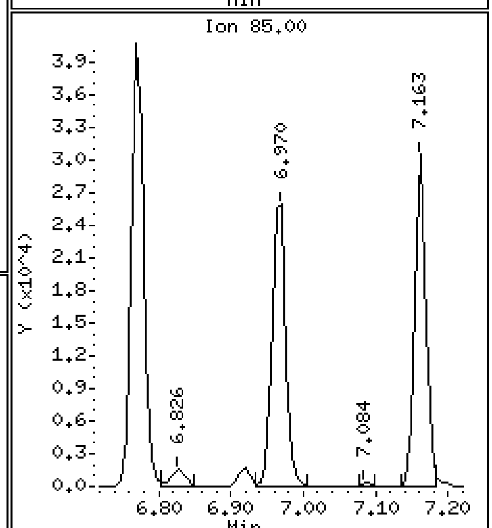


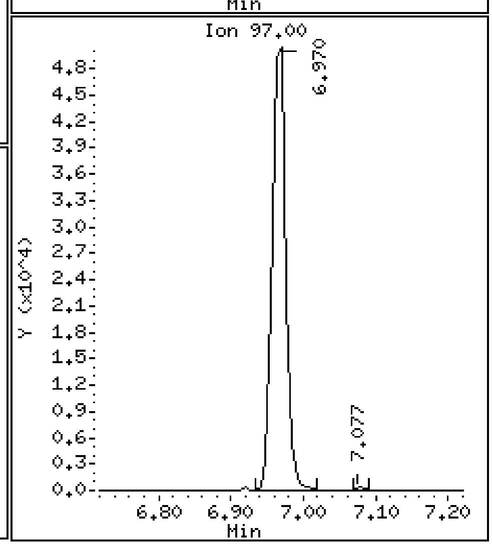












Date : 24-JAN-2023 13:31

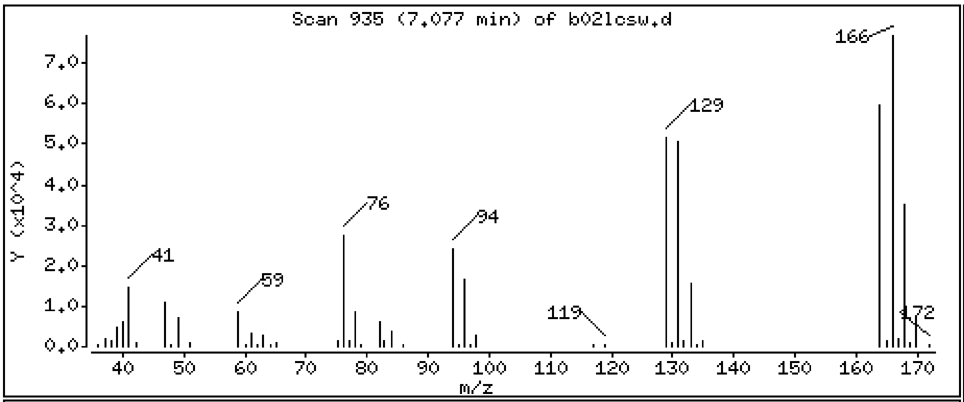
Client ID: Instrument: 50mvcb.i

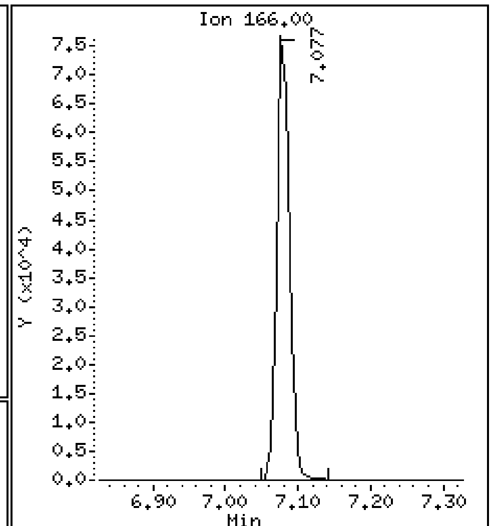
Sample Info: 3288023,335755:5

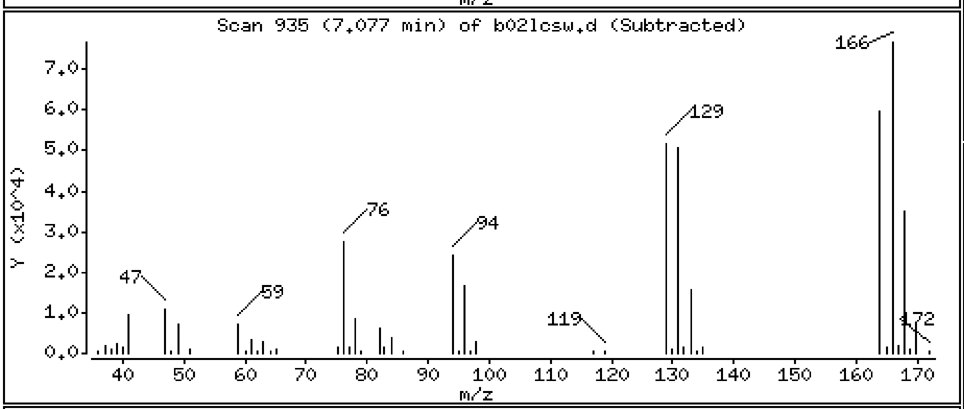
Purge Volume: 5.0 Operator: tkg

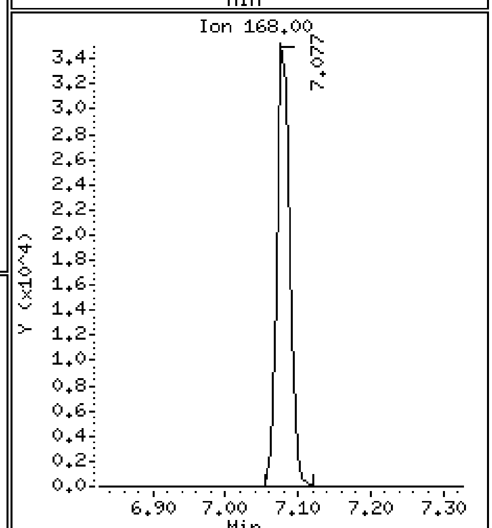
Column phase: DB-624 Column diameter: 0.18

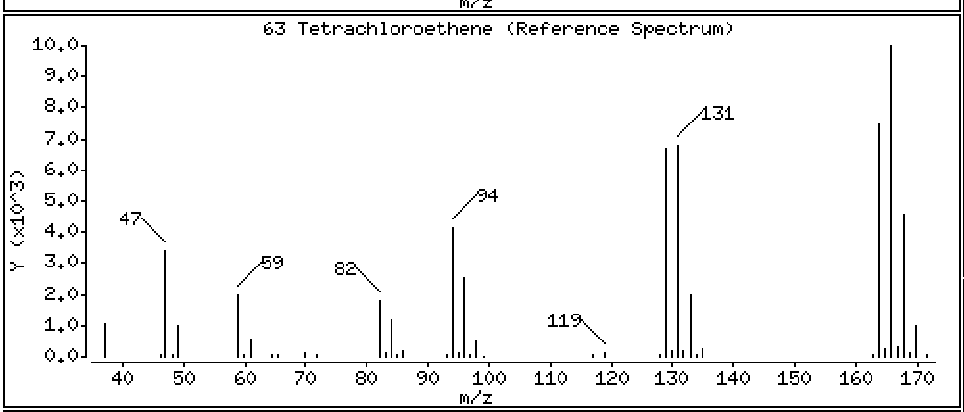
63 Tetrachloroethene Concentration: 51.2 ppb Review Code:

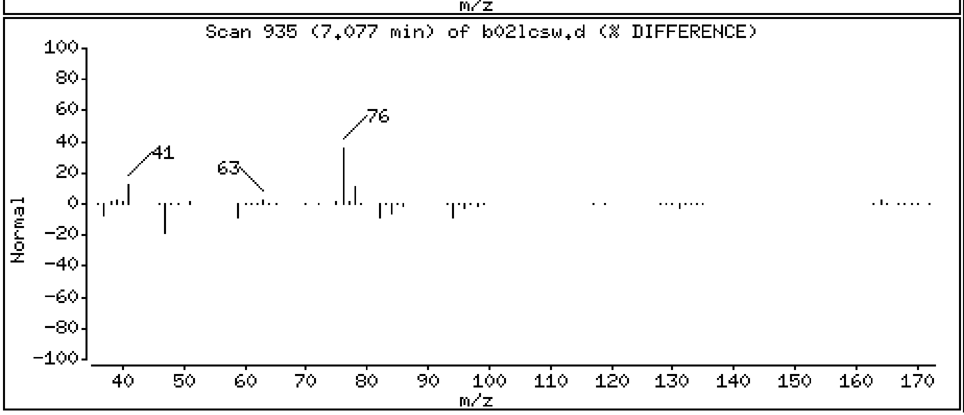


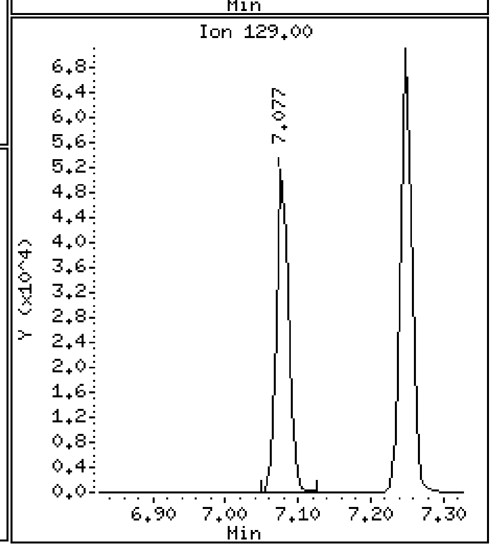












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

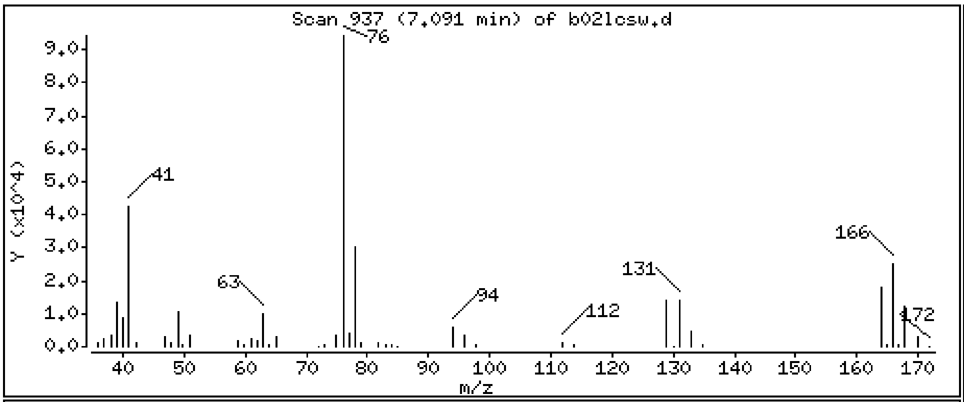
Column phase: DB-624

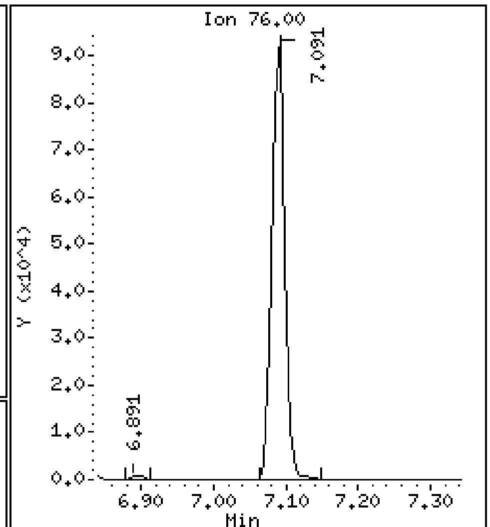
Column diameter: 0.18

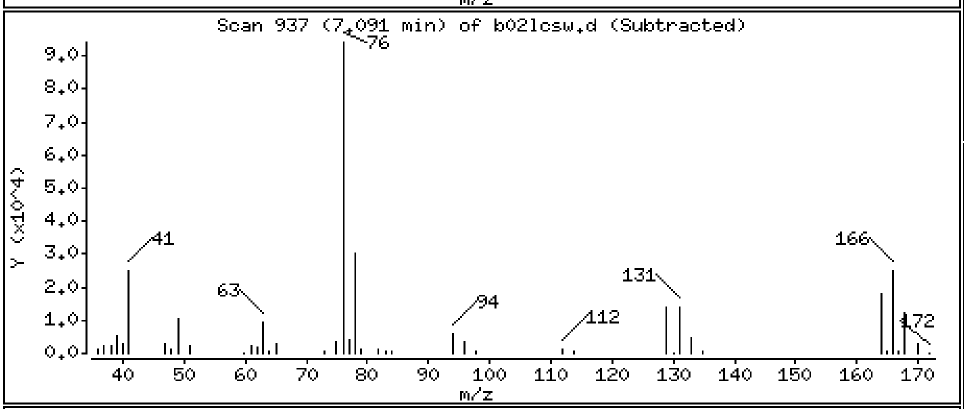
64 1,3-Dichloropropane

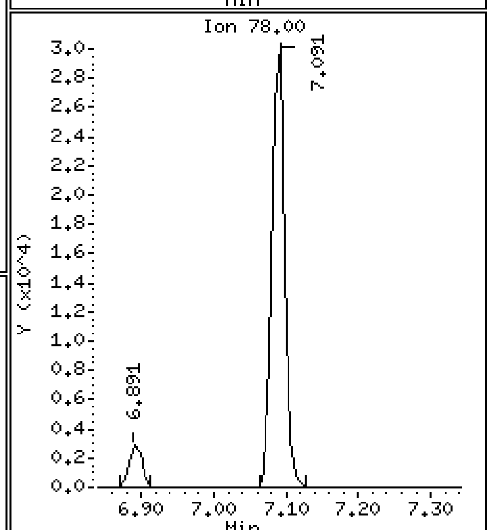
Concentration: 47.7 ppb

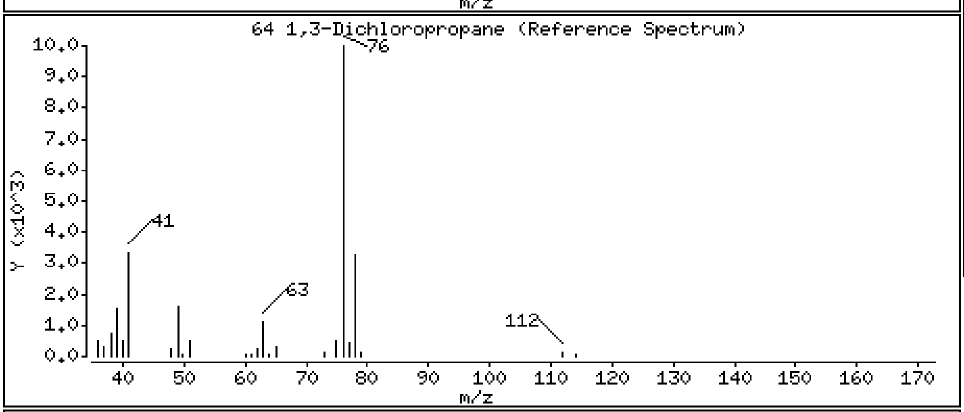
Review Code:

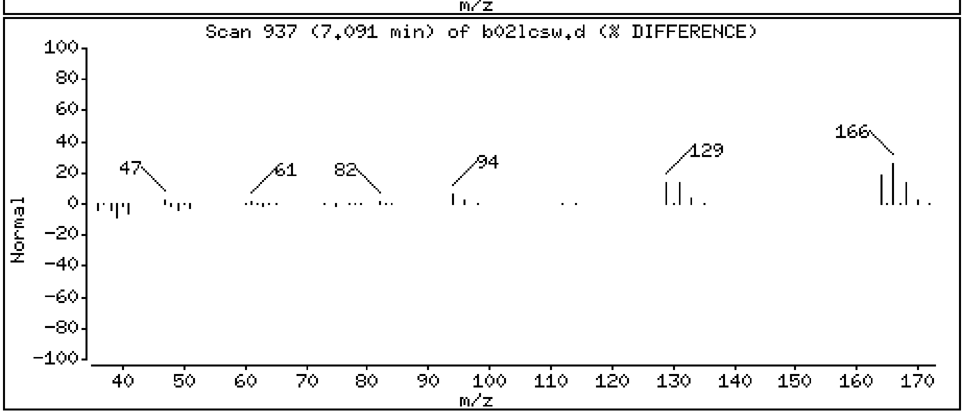












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

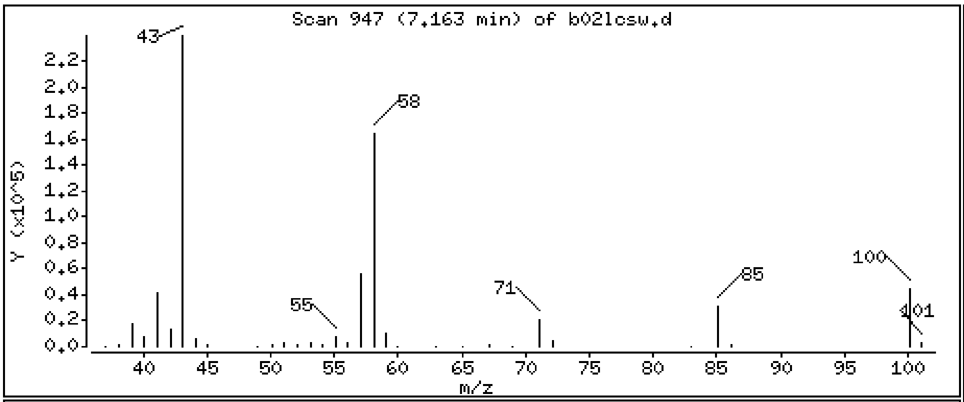
Column phase: DB-624

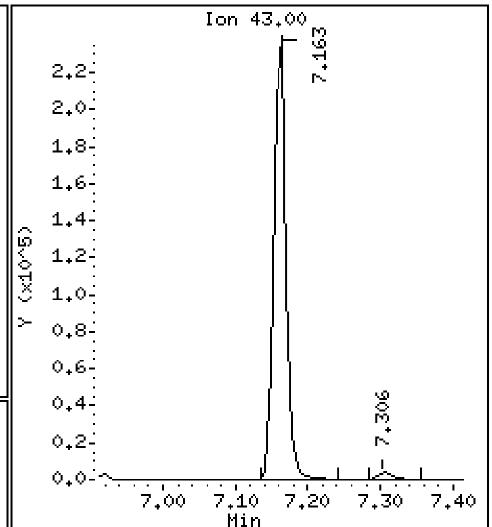
Column diameter: 0.18

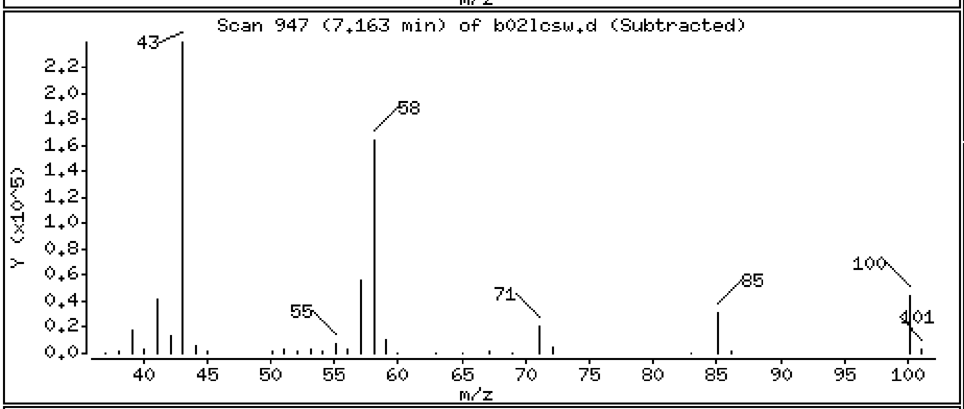
65 2-Hexanone

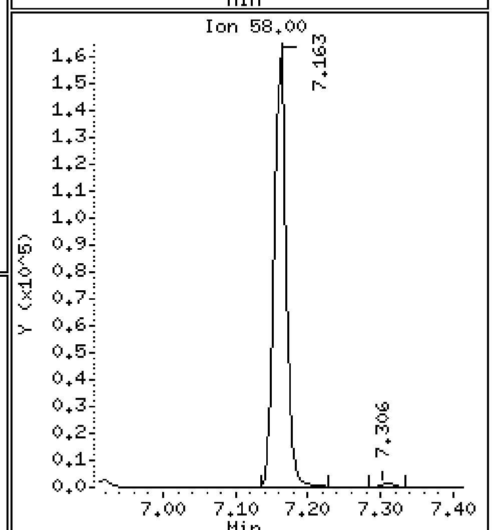
Concentration: 265 ppb

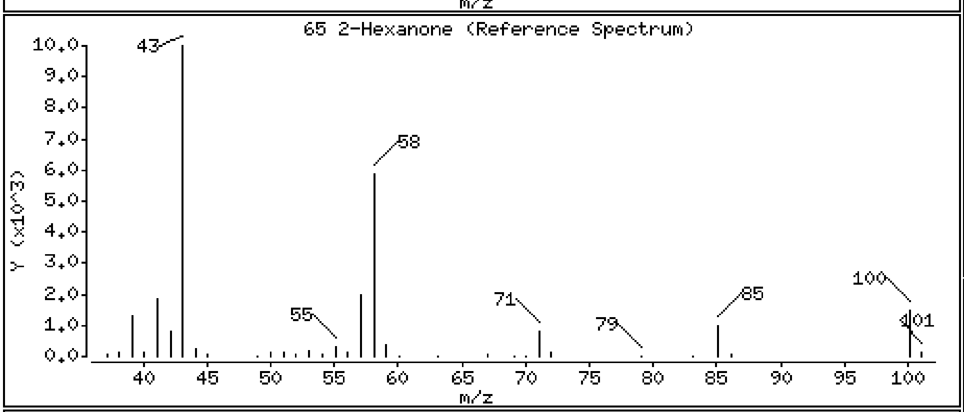
Review Code:

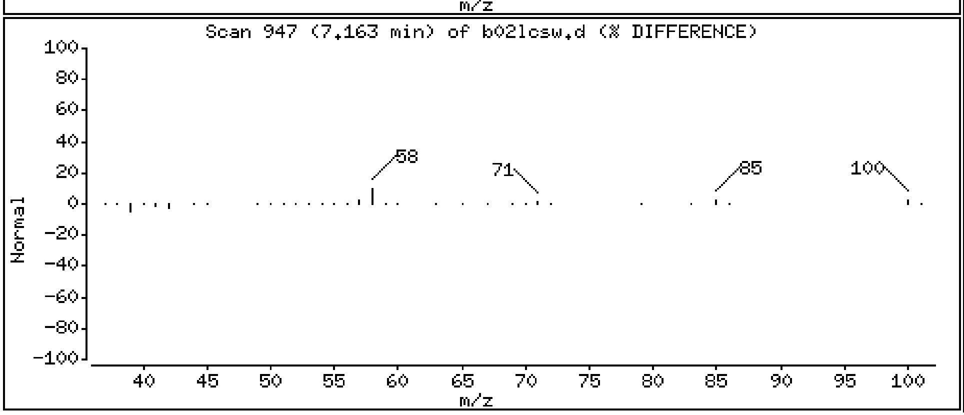


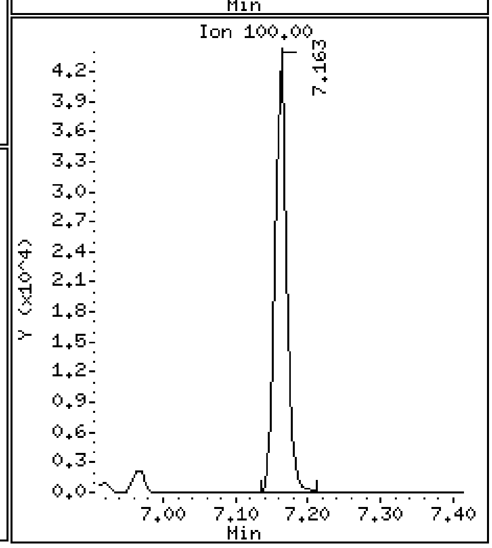












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

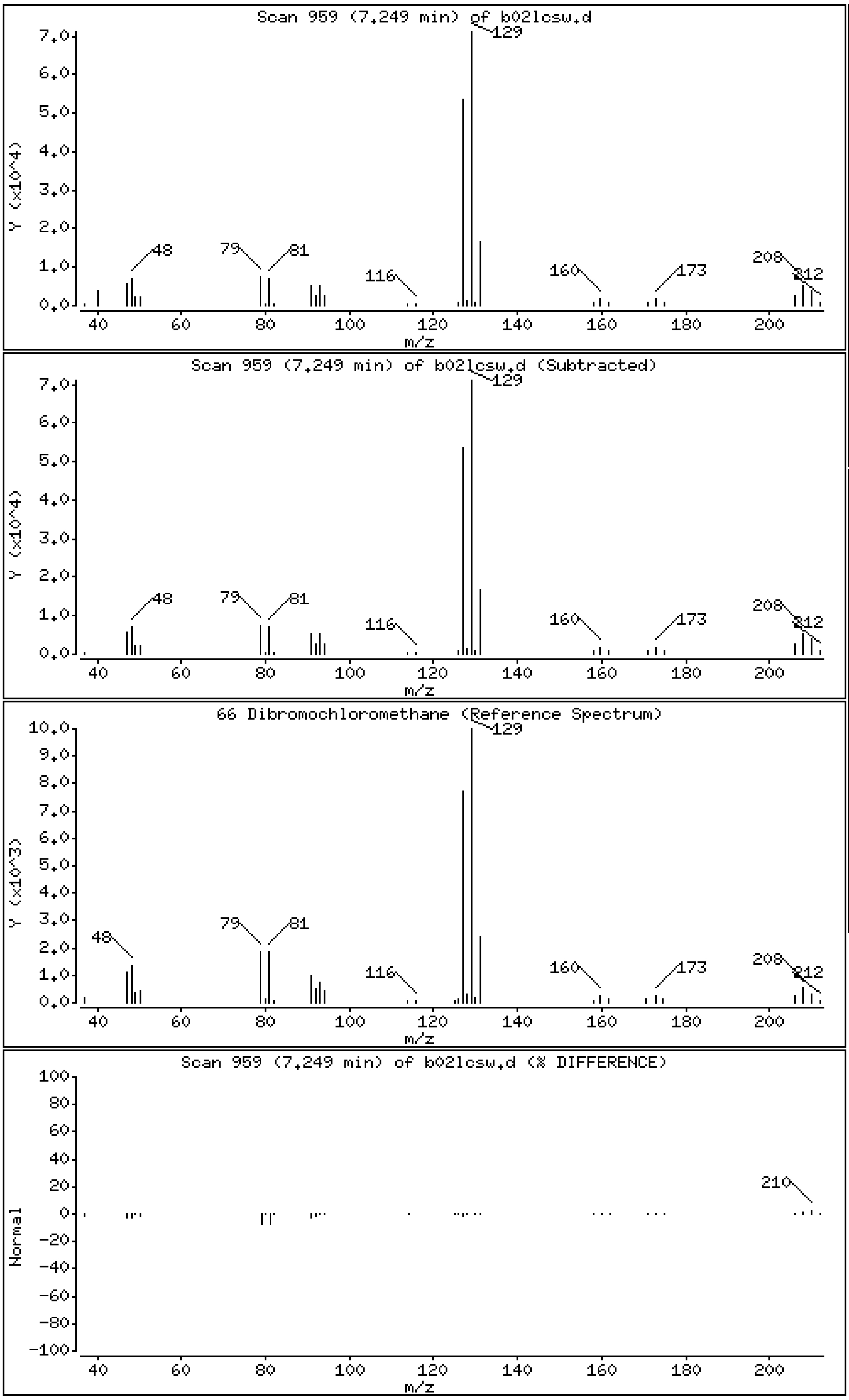
Column phase: DB-624

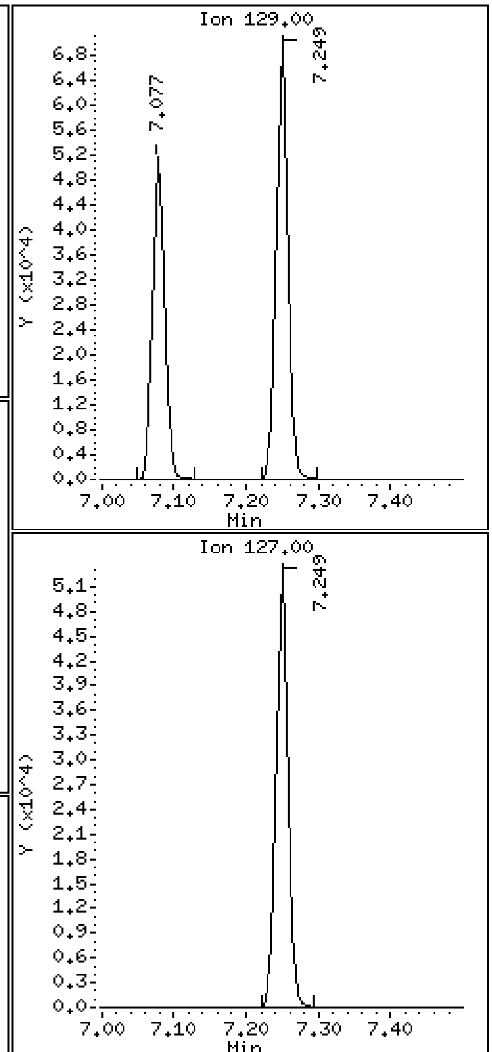
Column diameter: 0.18

66 Dibromochloromethane

Concentration: 49.7 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

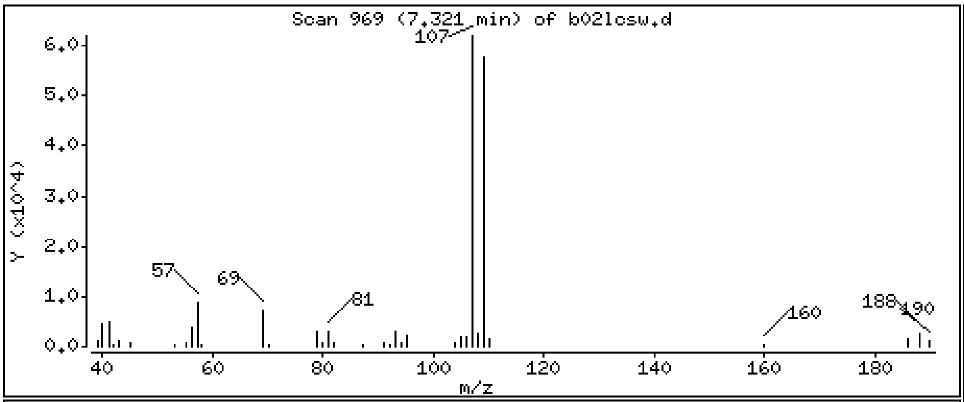
Column phase: DB-624

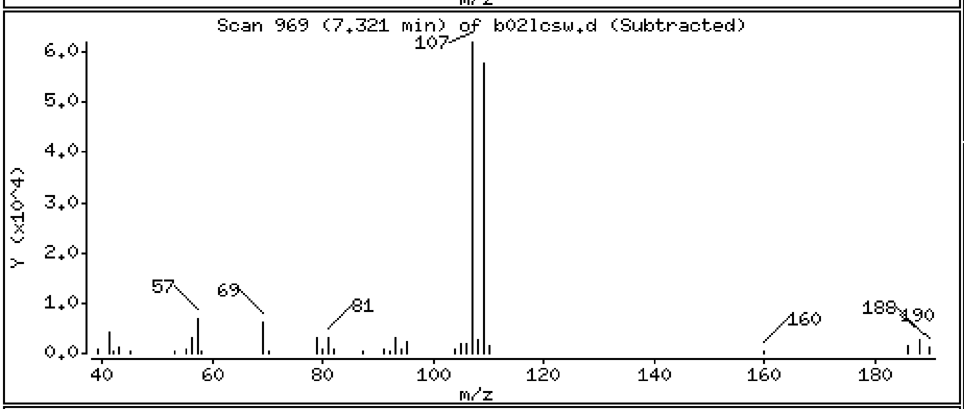
Column diameter: 0.18

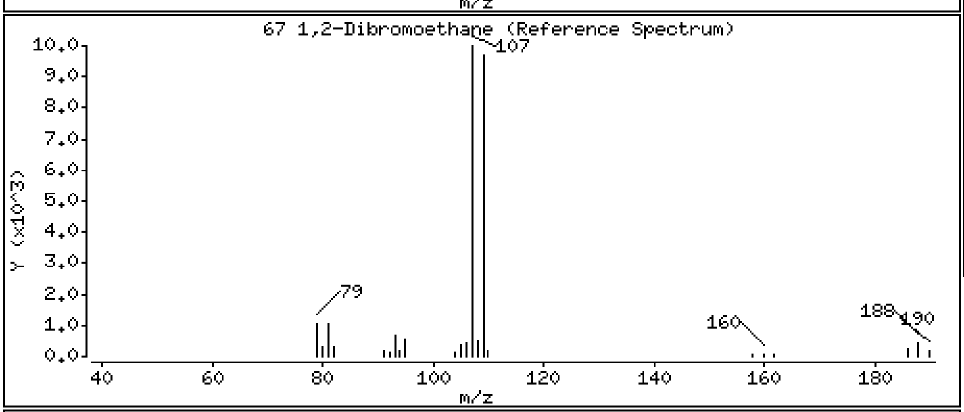
67 1,2-Dibromoethane

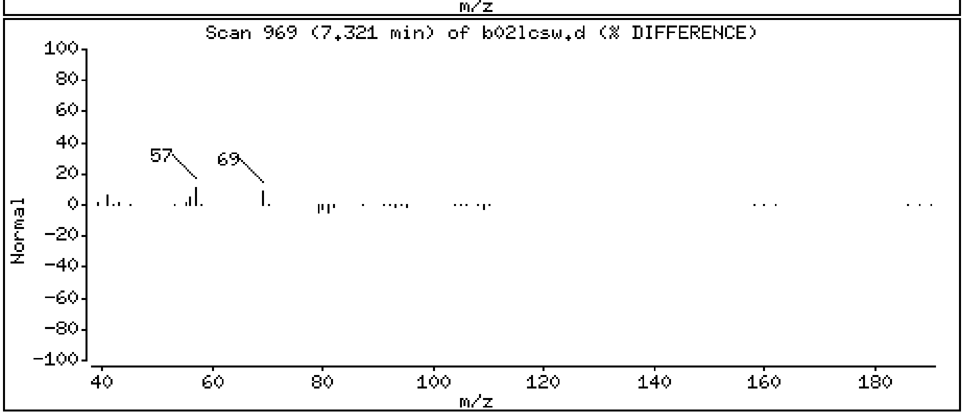
Concentration: 48.6 ppb

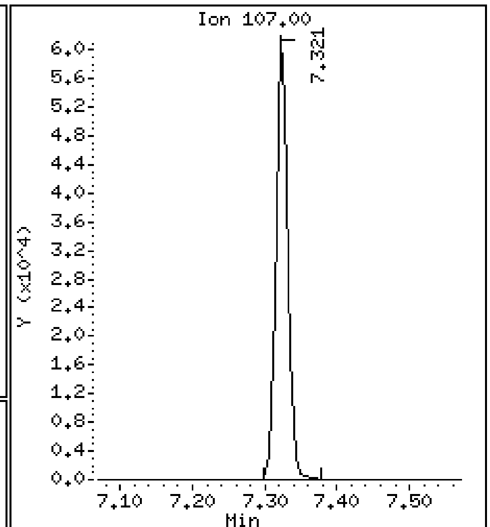
Review Code:

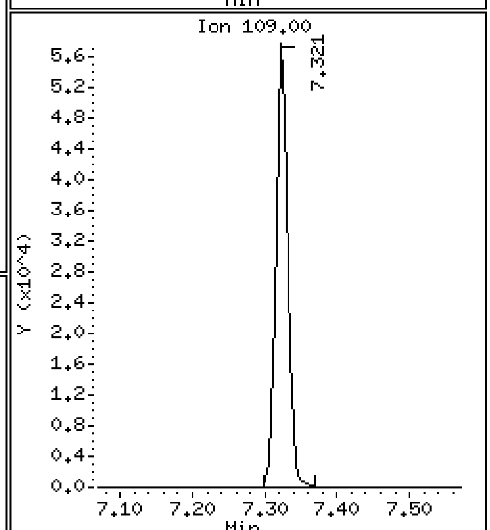












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

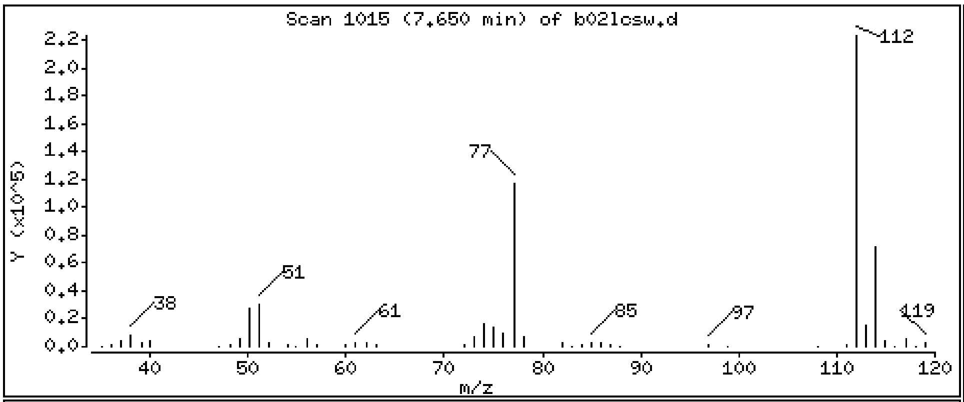
Column phase: DB-624

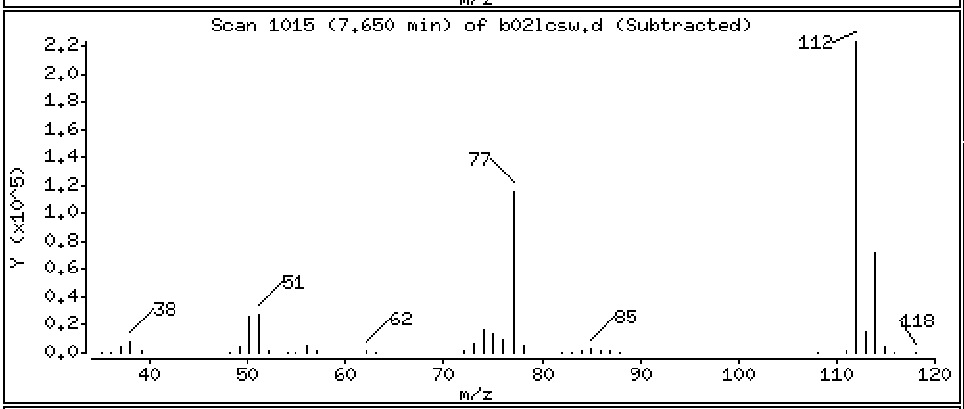
Column diameter: 0.18

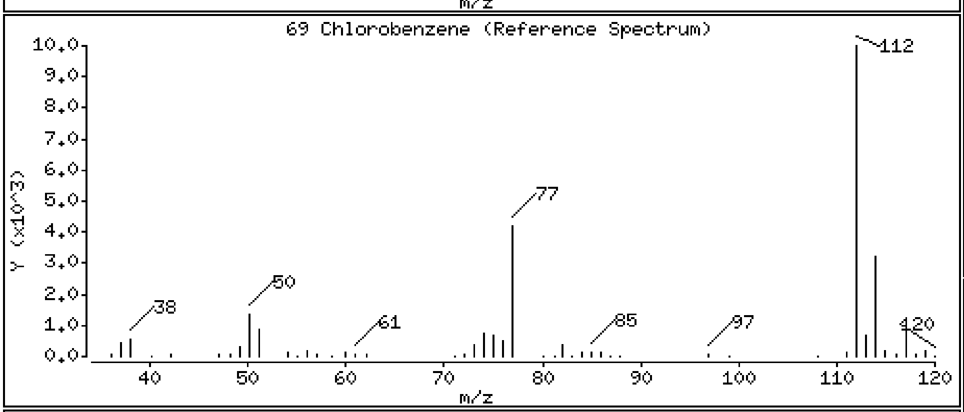
69 Chlorobenzene

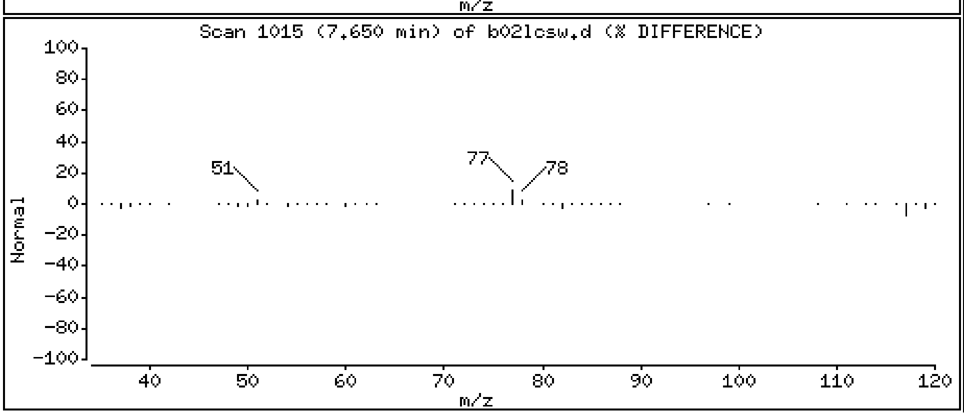
Concentration: 49.8 ppb

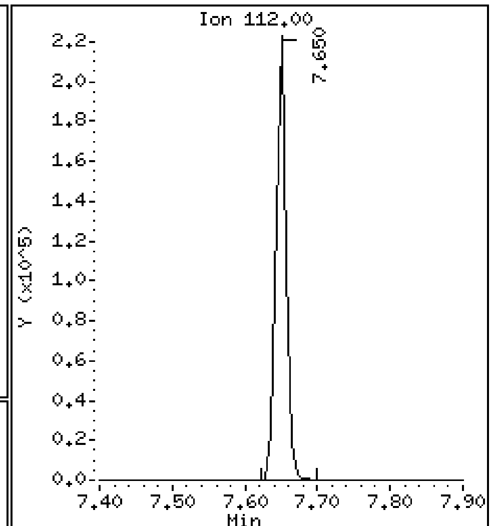
Review Code:

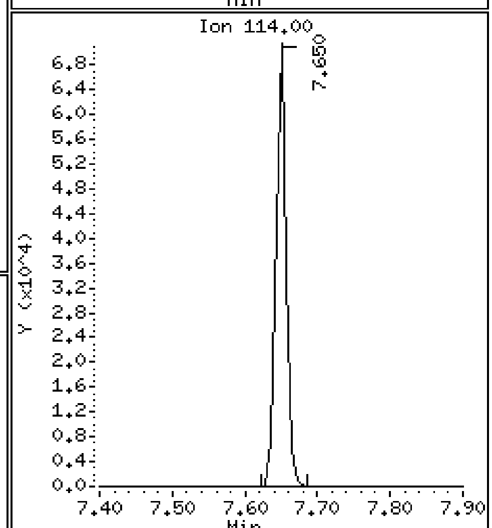


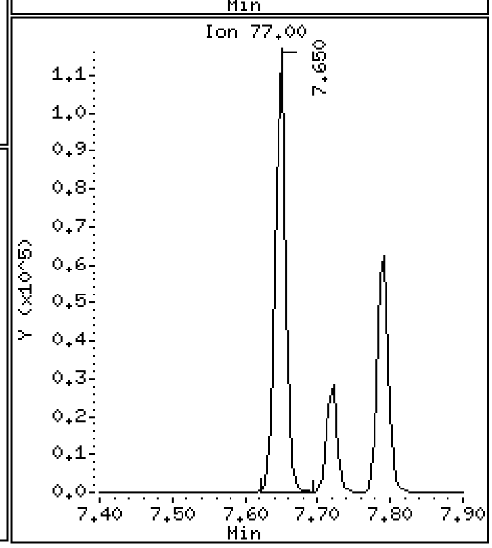












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

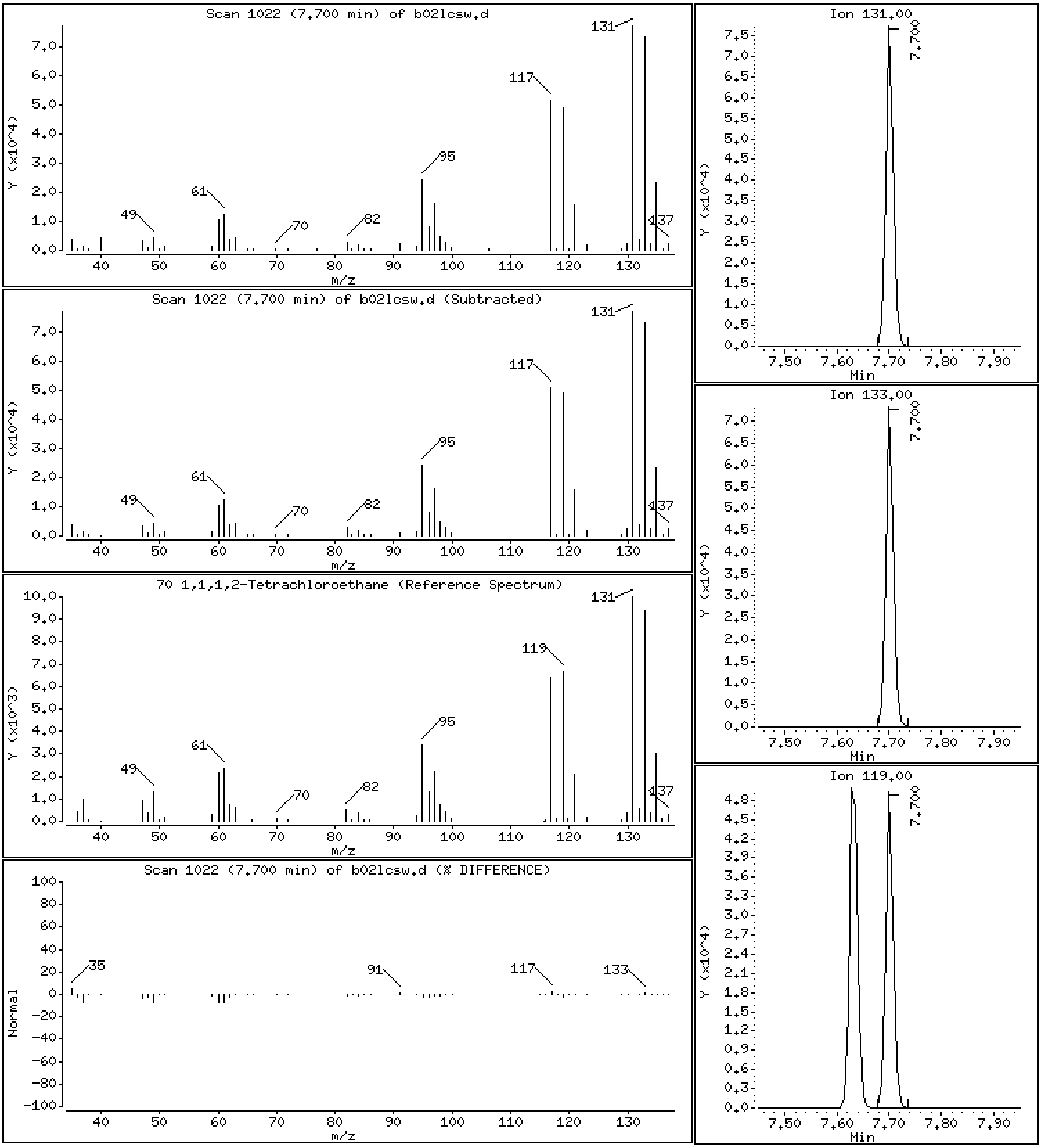
Column phase: DB-624

Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane

Concentration: 50.7 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

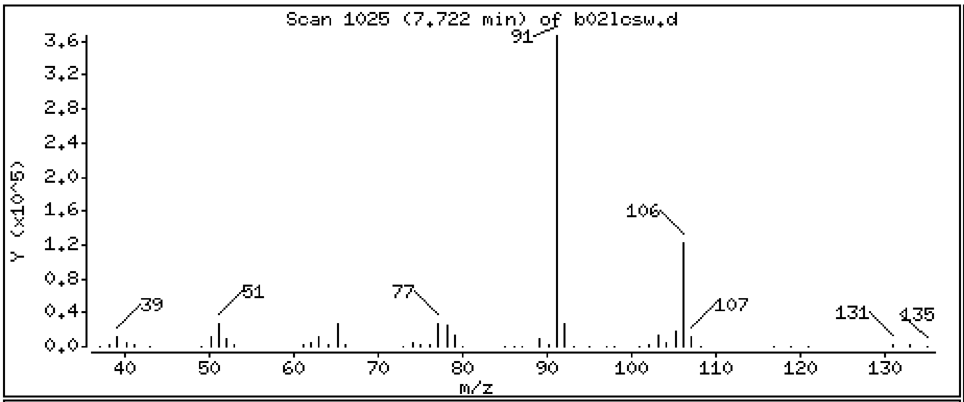
Column phase: DB-624

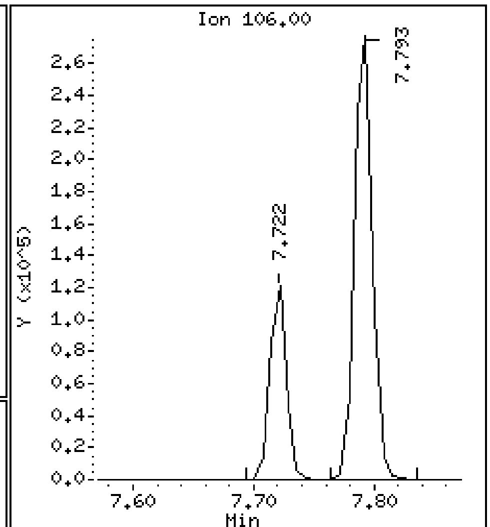
Column diameter: 0.18

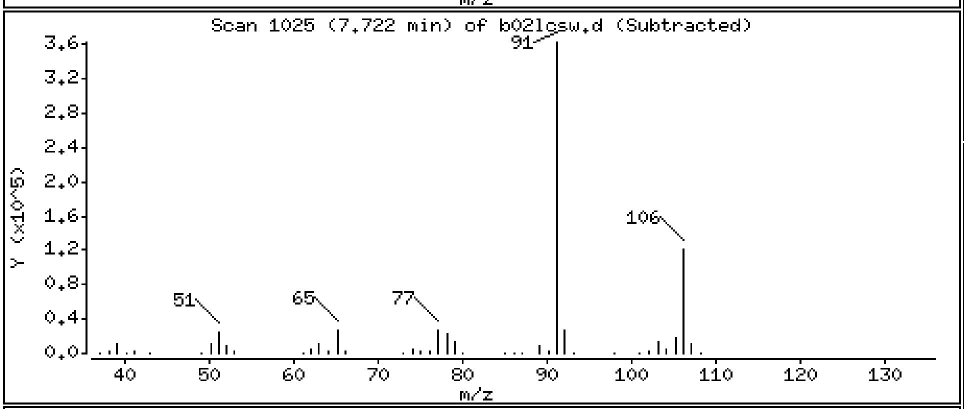
71 Ethylbenzene

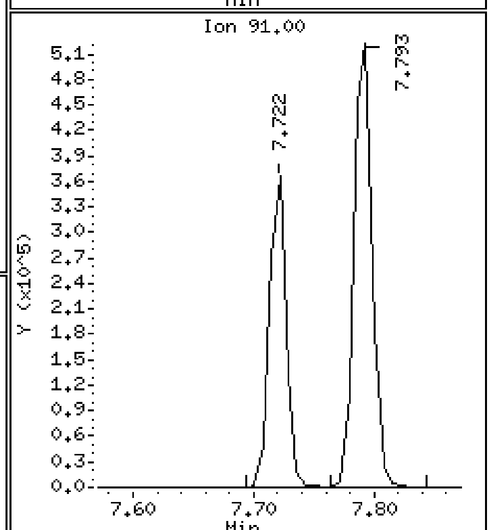
Concentration: 51.7 ppb

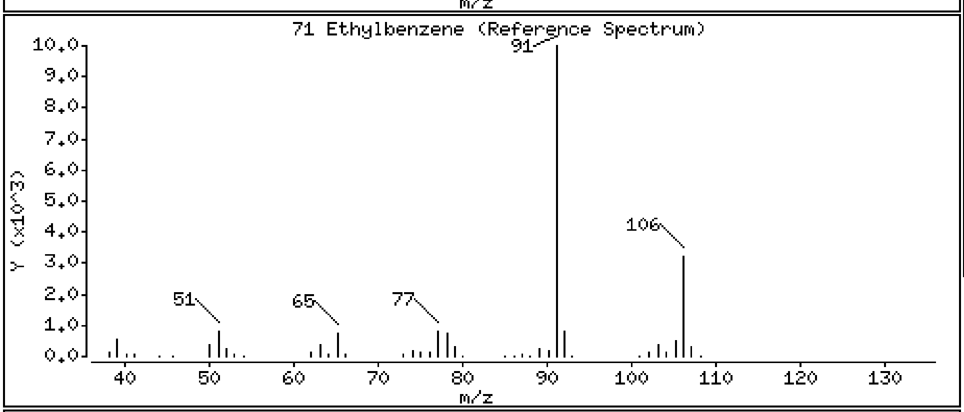
Review Code:

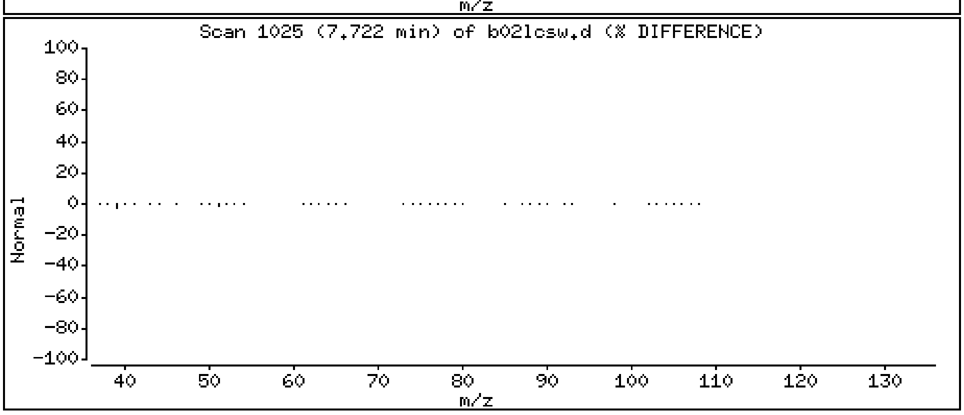












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

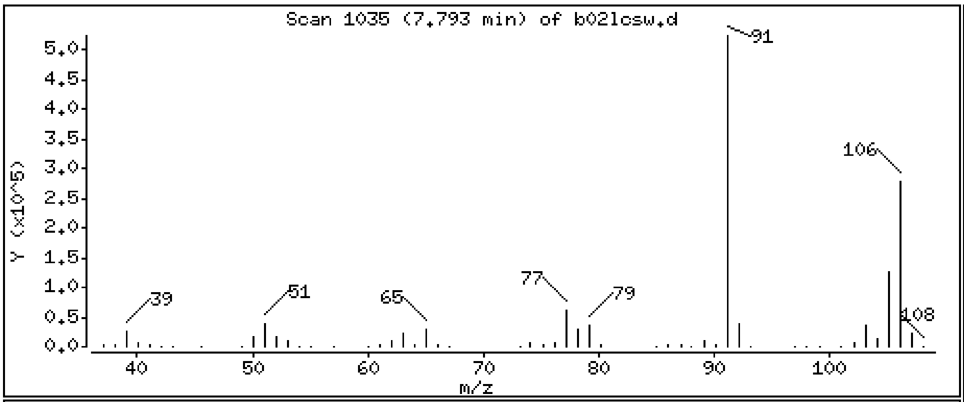
Column phase: DB-624

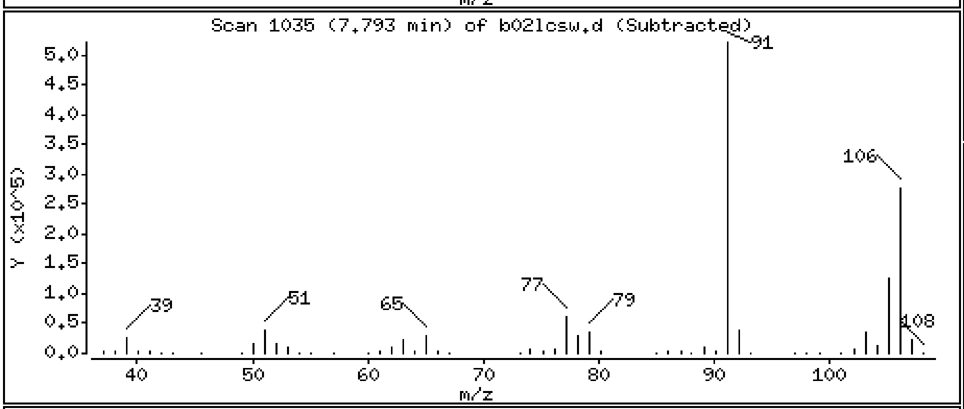
Column diameter: 0.18

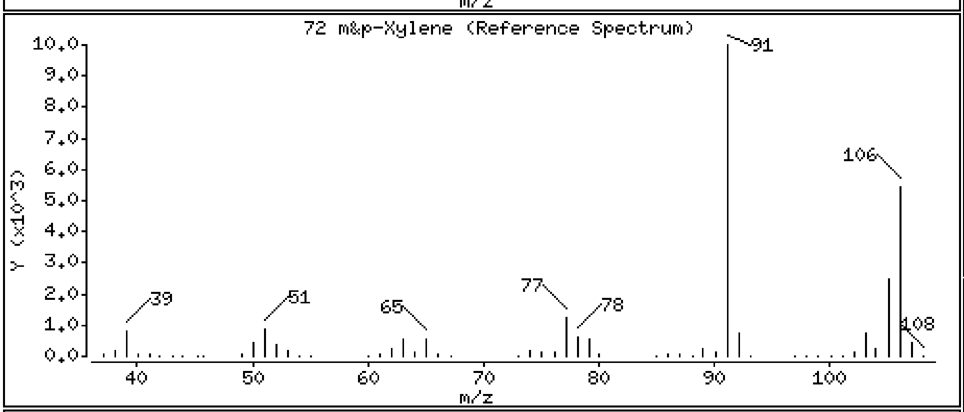
72 m&p-Xylene

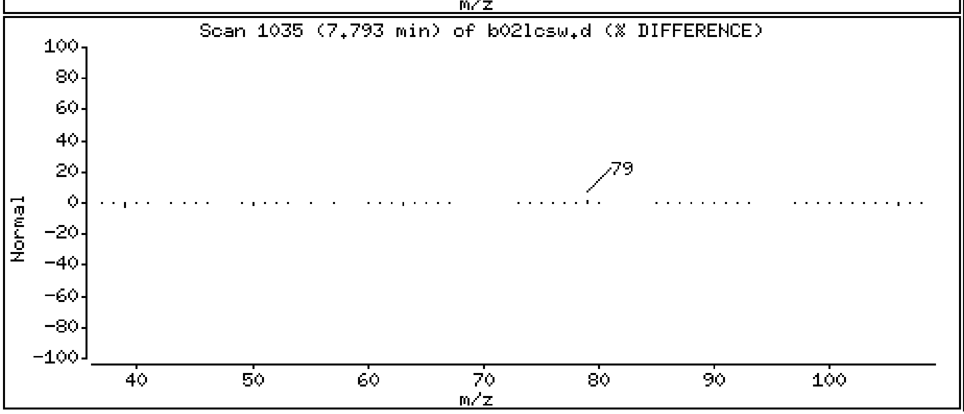
Concentration: 101 ppb

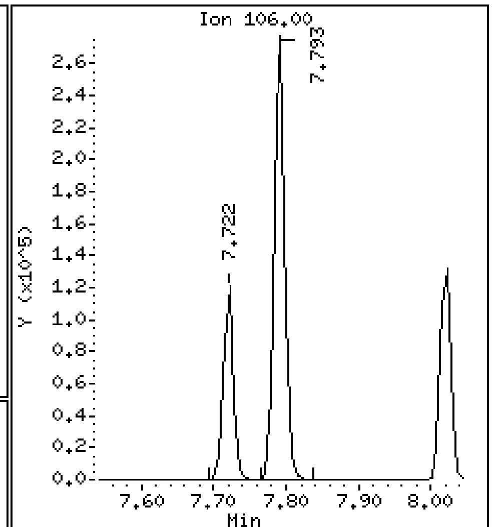
Review Code:

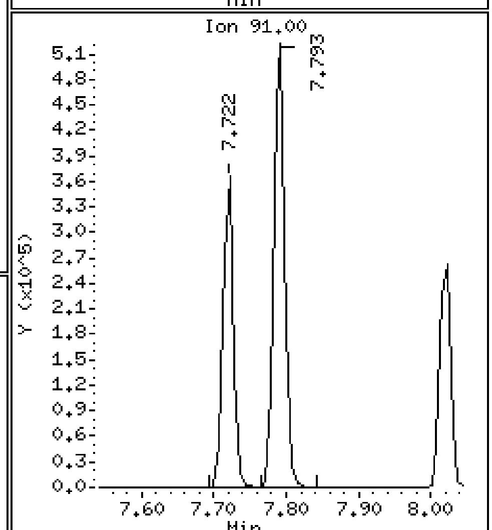


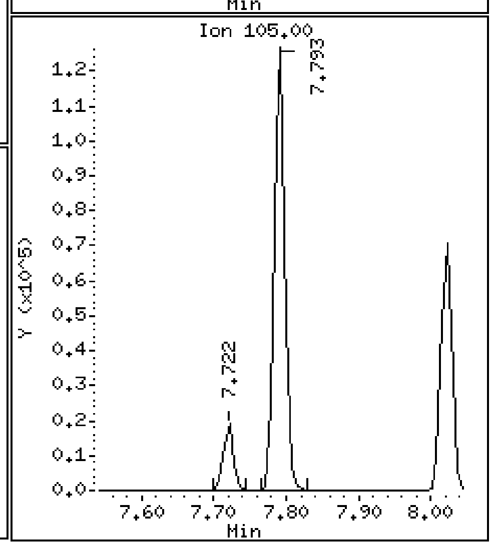












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

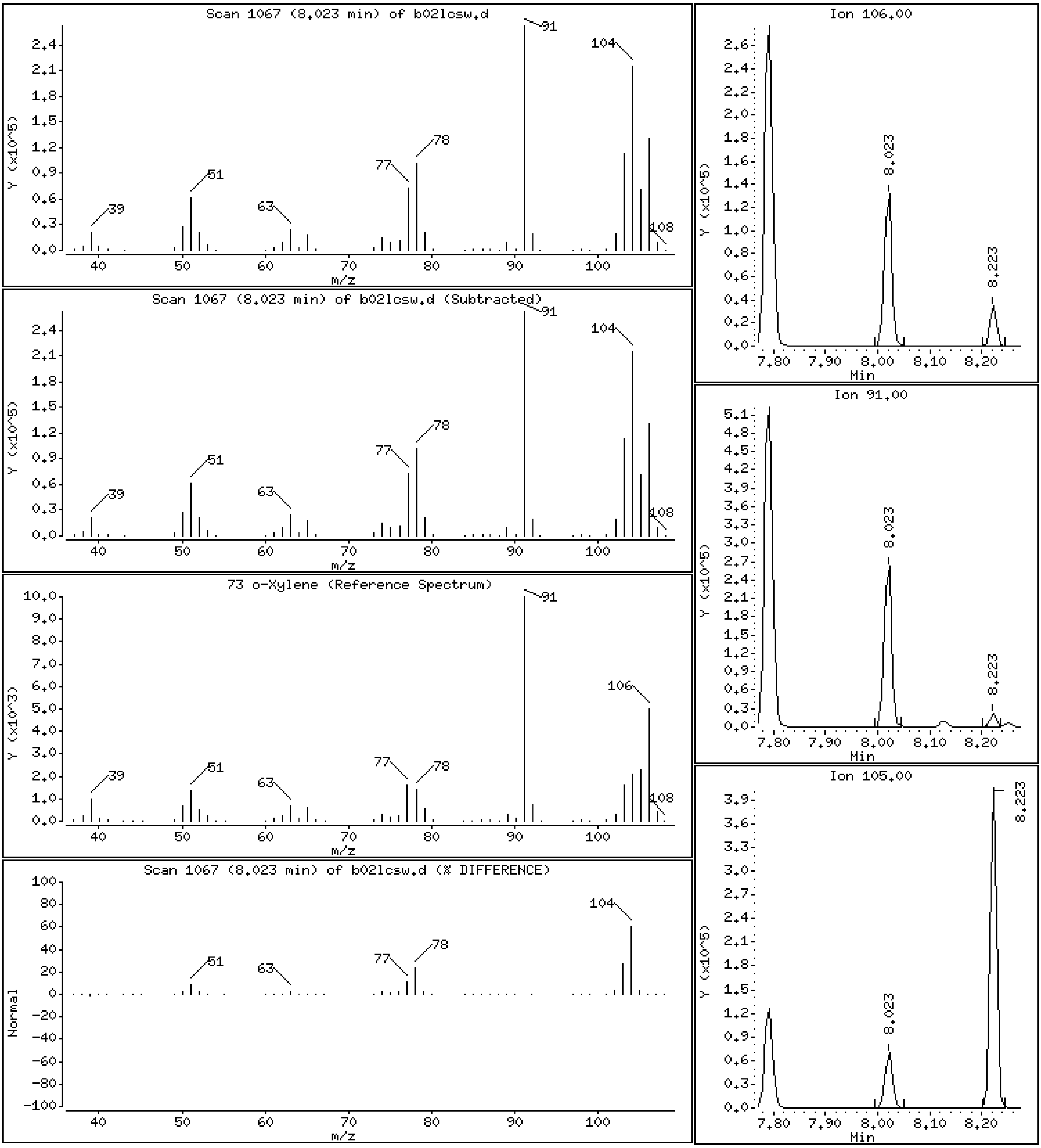
Column phase: DB-624

Column diameter: 0.18

73 o-Xylene

Concentration: 49.1 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

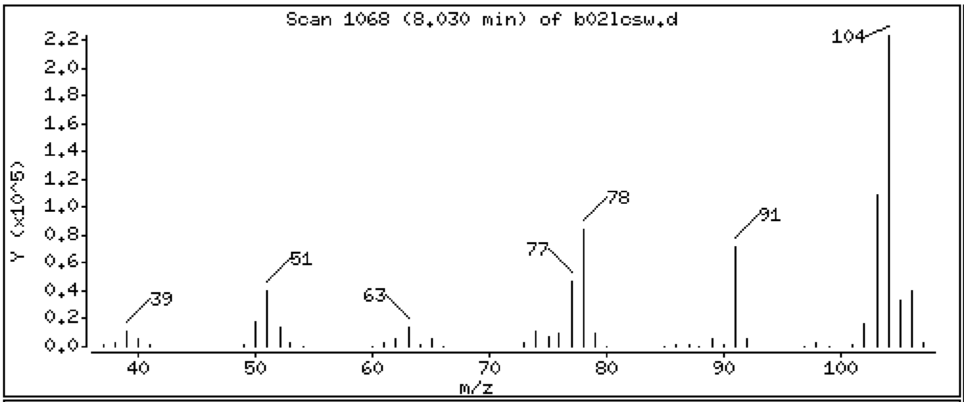
Column phase: DB-624

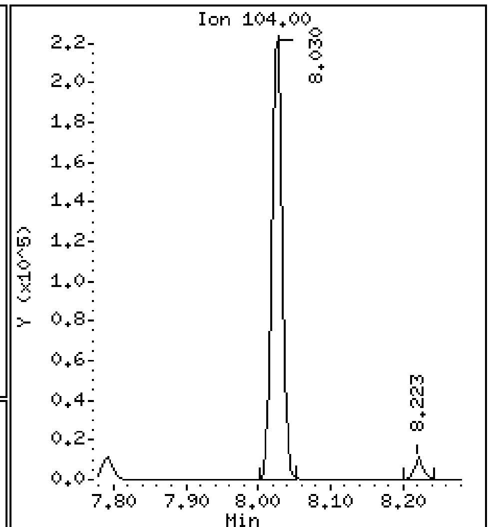
Column diameter: 0.18

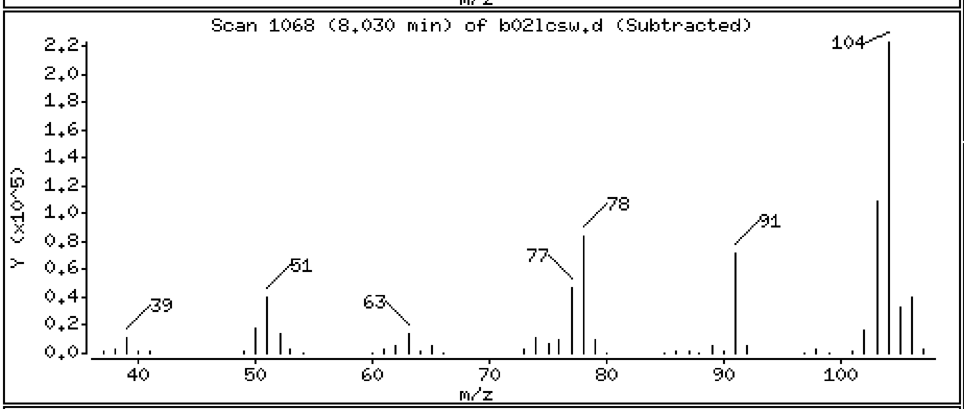
74 Styrene

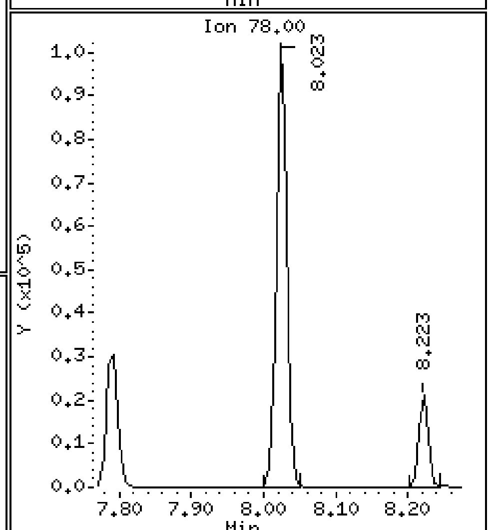
Concentration: 51.5 ppb

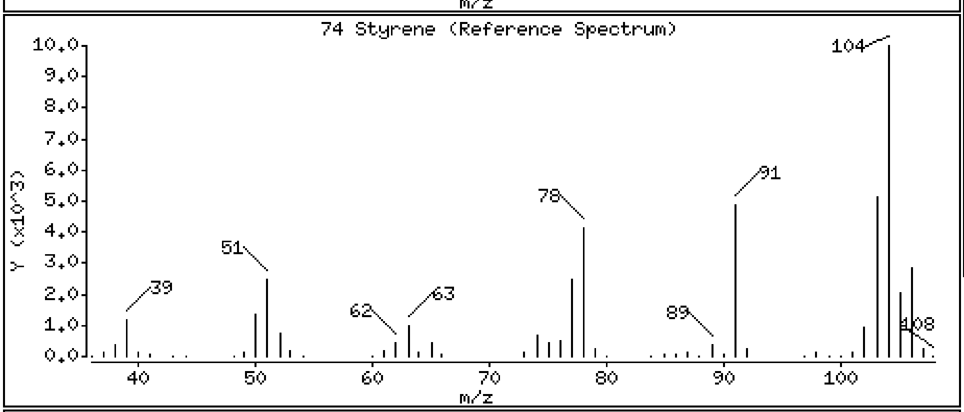
Review Code:

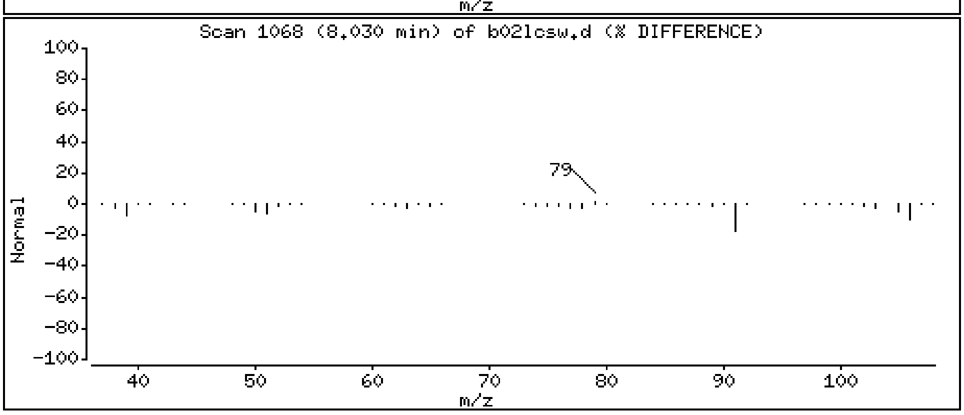












Data File: \\192.168.50.6\chem\50mvcb.i\b012423.b\b021csw.d

Date : 24-JAN-2023 13:31

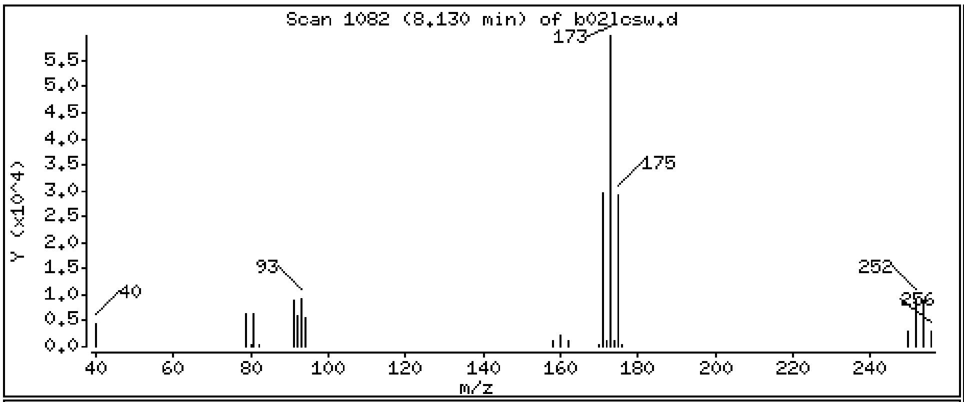
Client ID: Instrument: 50mvcb.i

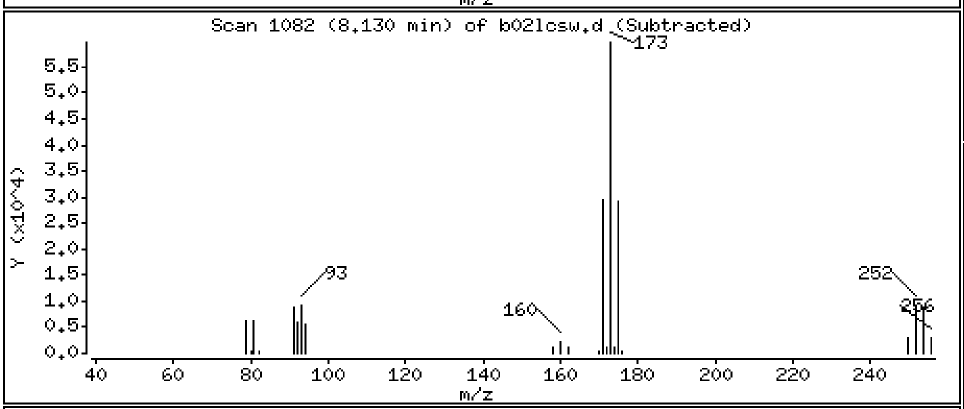
Sample Info: 3288023,335755:5

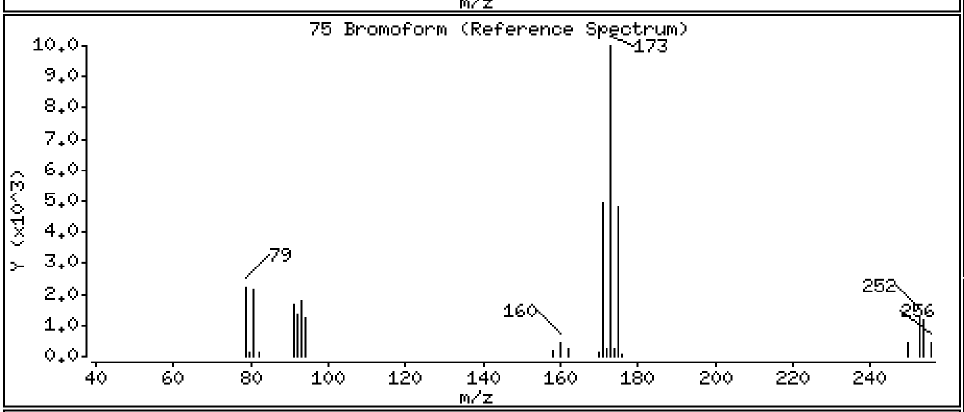
Purge Volume: 5.0 Operator: tkg

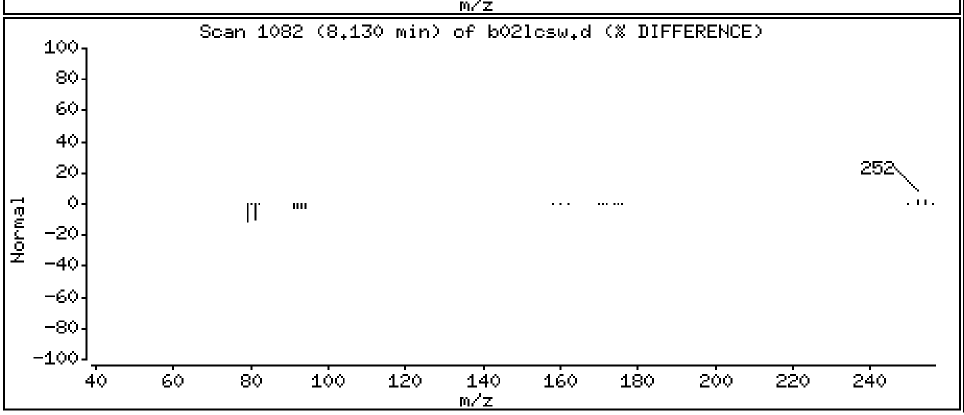
Column phase: DB-624 Column diameter: 0.18

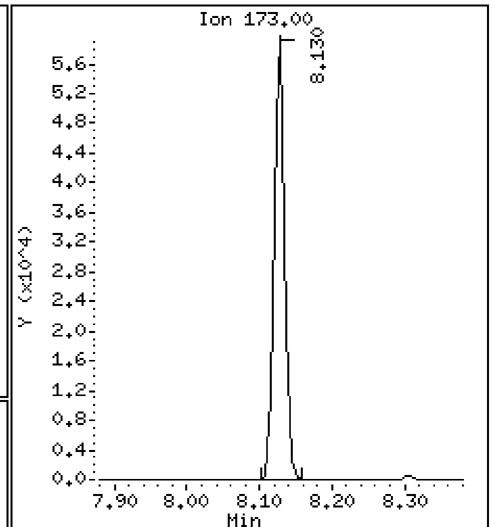
75 Bromoform Concentration: 50.3 ppb Review Code:

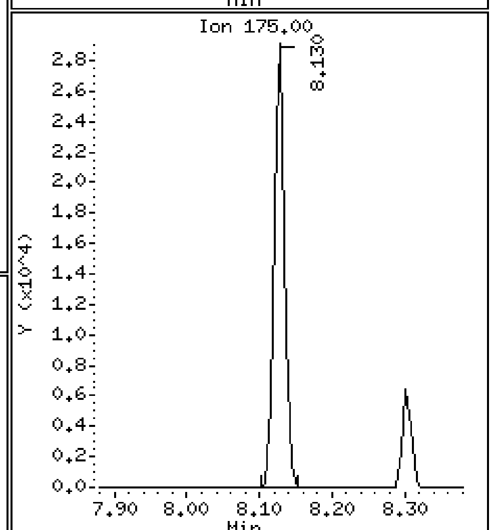


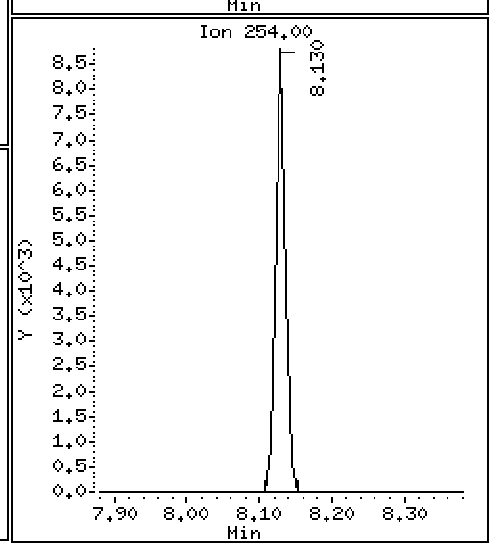












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

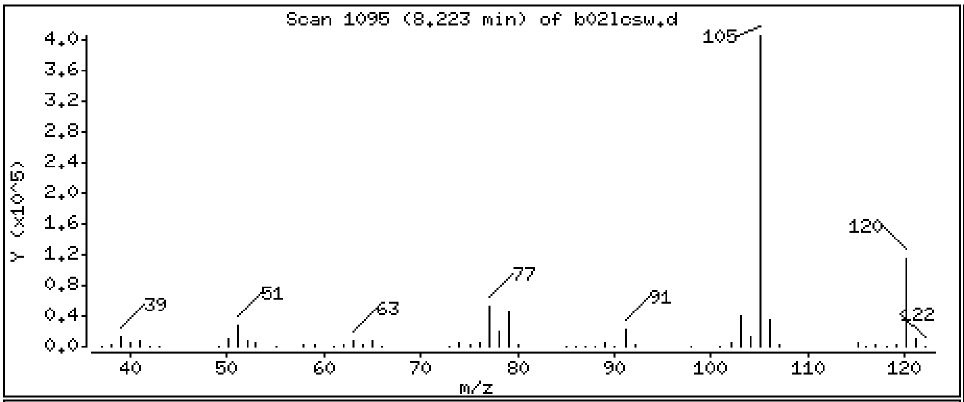
Column phase: DB-624

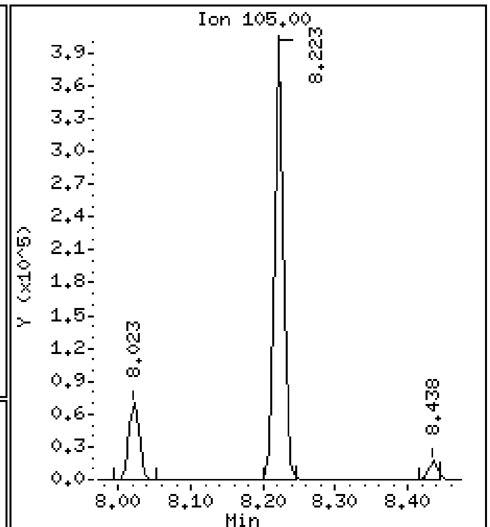
Column diameter: 0.18

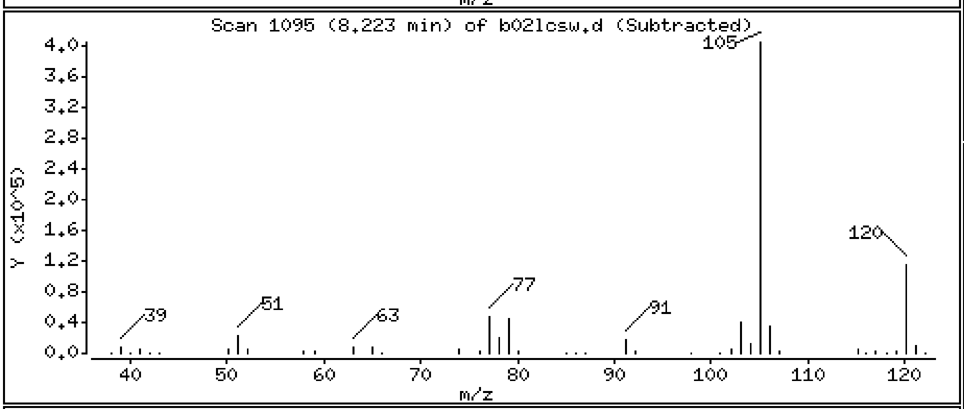
76 Isopropylbenzene

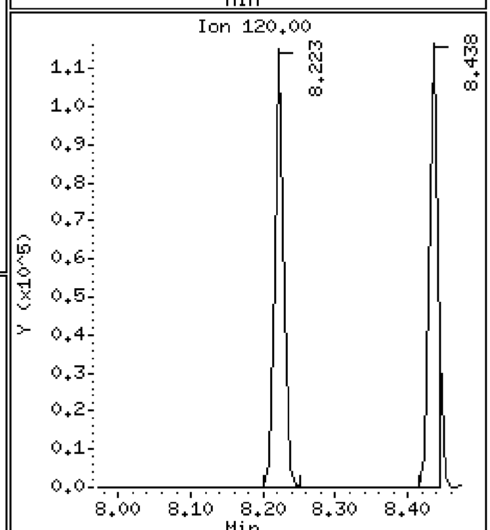
Concentration: 52.9 ppb

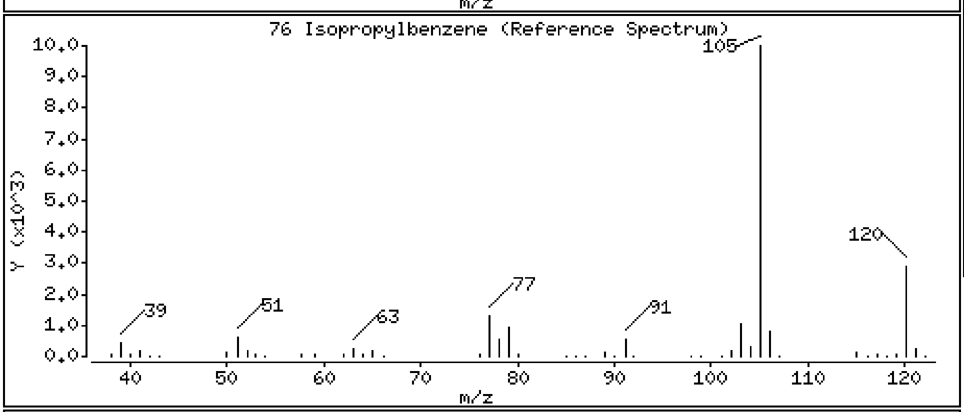
Review Code:

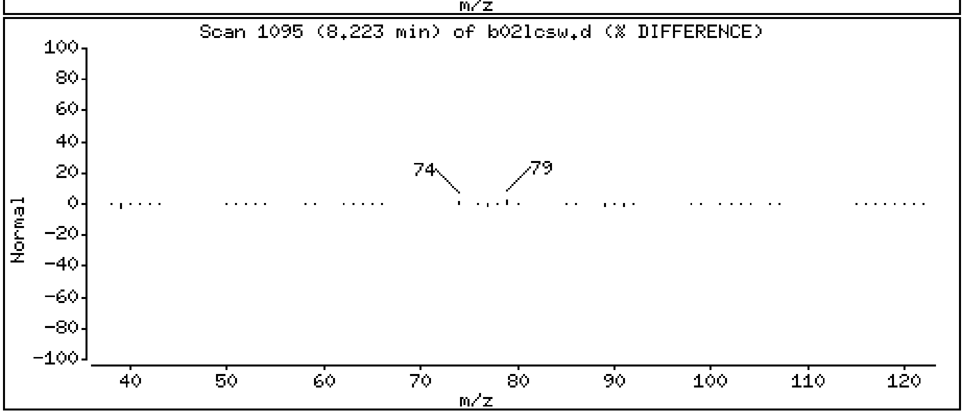












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

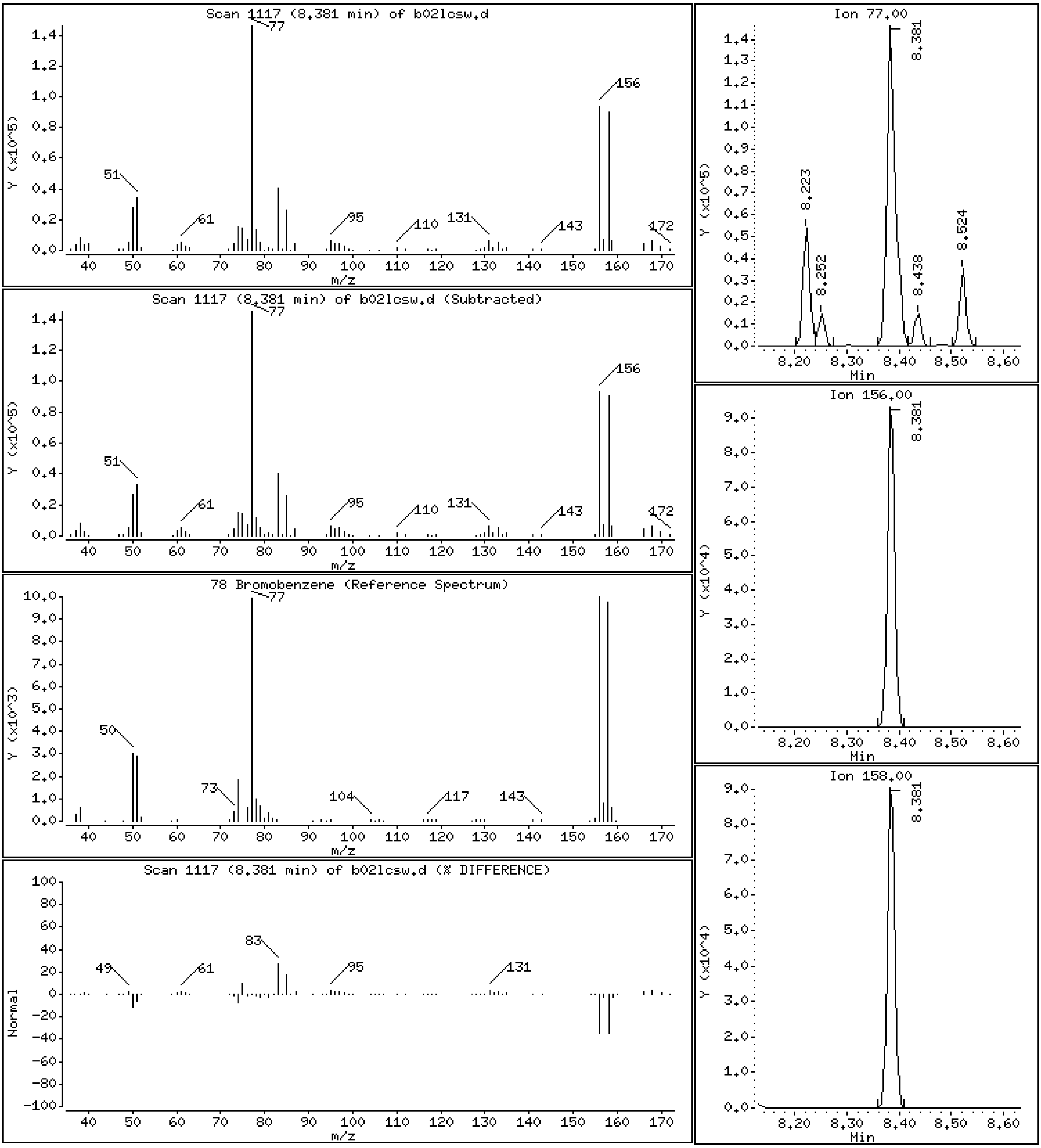
Column phase: DB-624

Column diameter: 0.18

78 Bromobenzene

Concentration: 50.7 ppb

Review Code:



Date : 24-JAN-2023 13:31

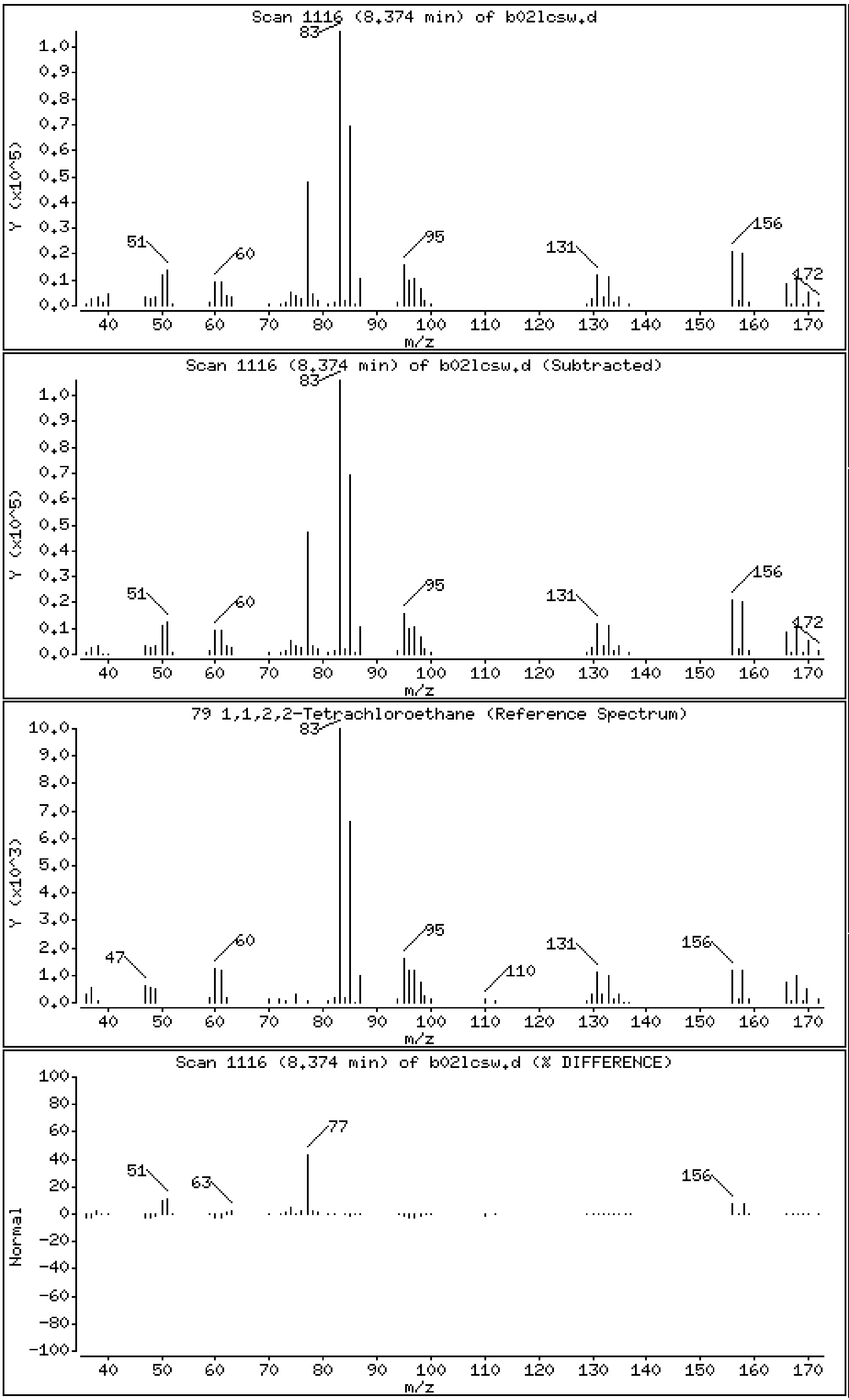
Client ID: Instrument: 50mvcb.i

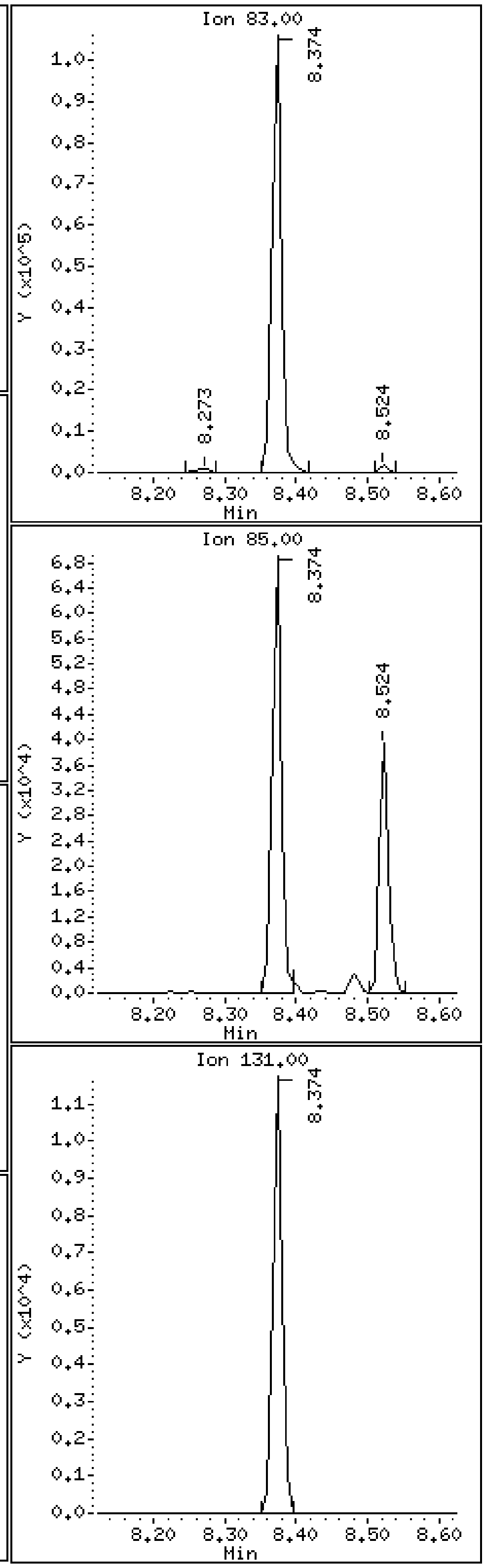
Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

79 1,1,2,2-Tetrachloroethane Concentration: 48.8 ppb Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

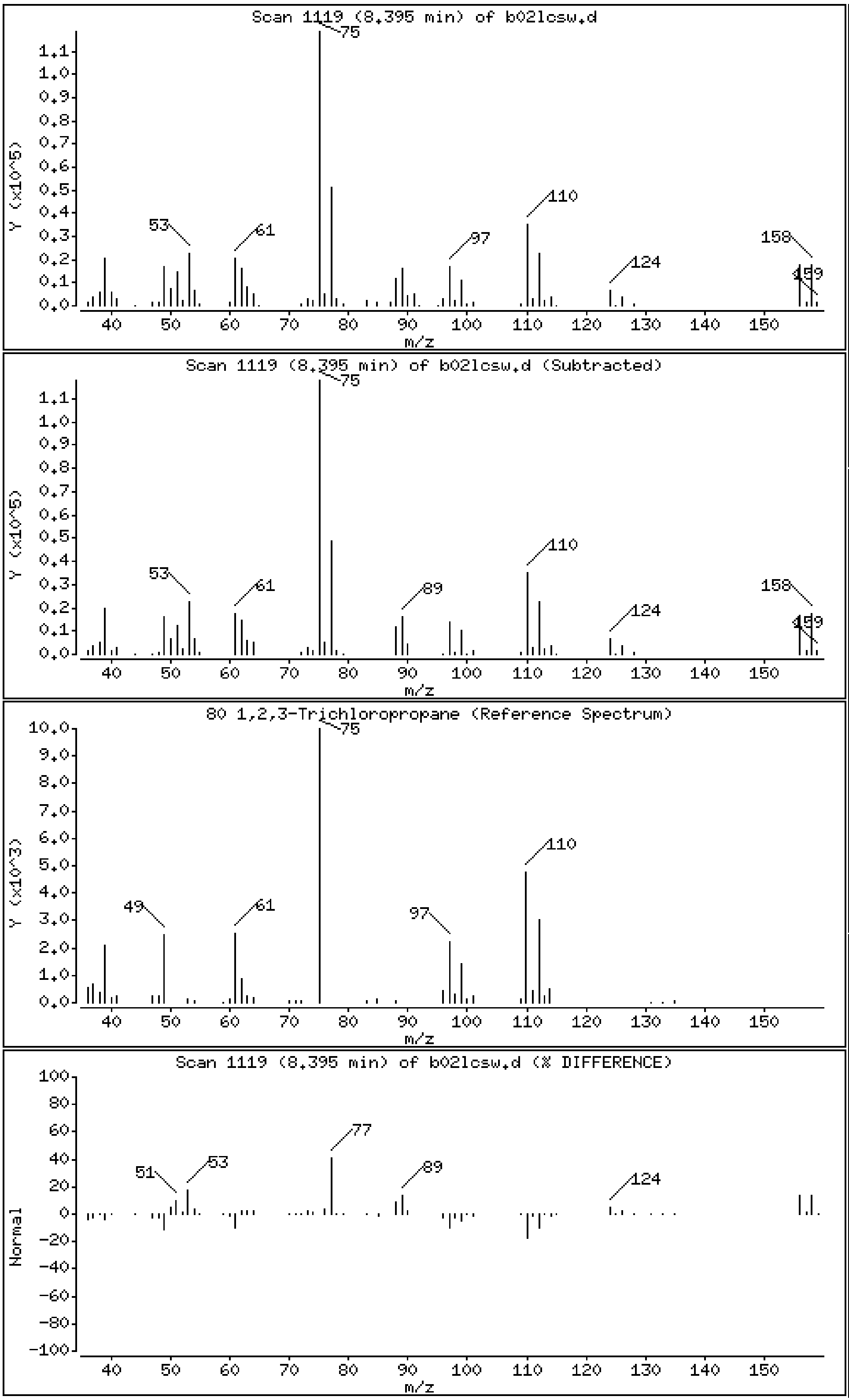
Column phase: DB-624

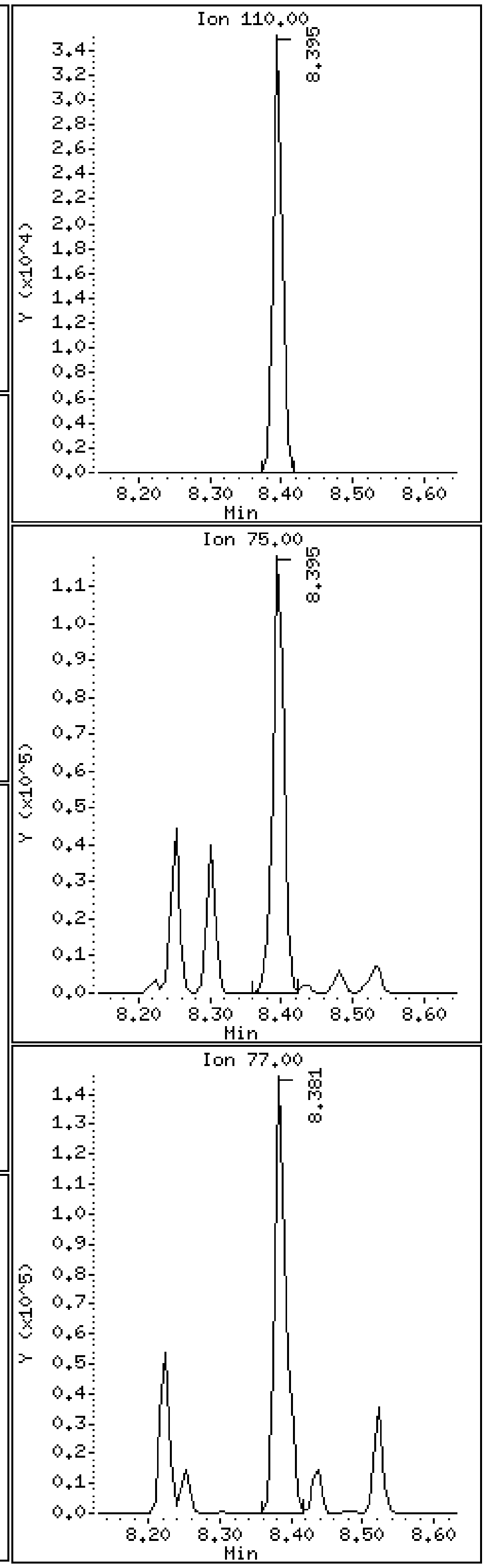
Column diameter: 0.18

80 1,2,3-Trichloropropane

Concentration: 49.7 ppb

Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

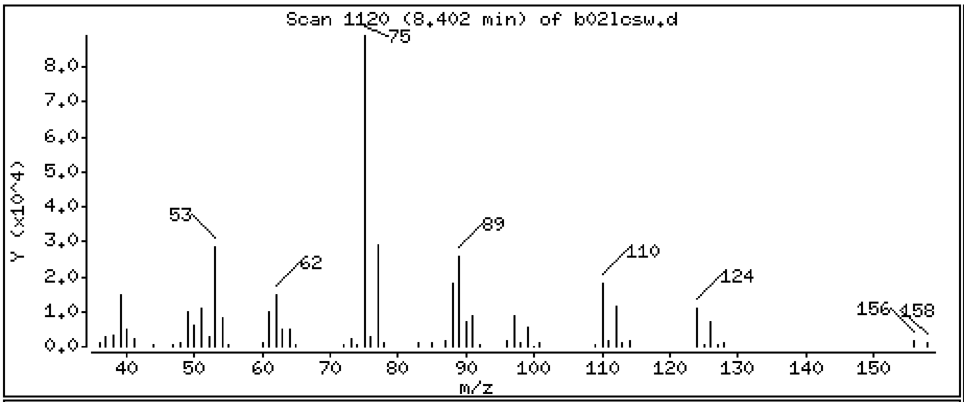
Column phase: DB-624

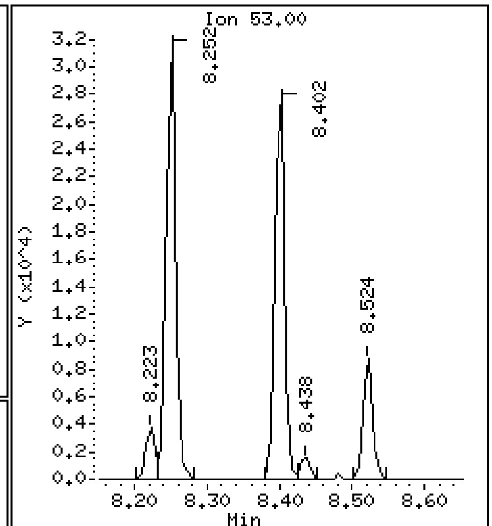
Column diameter: 0.18

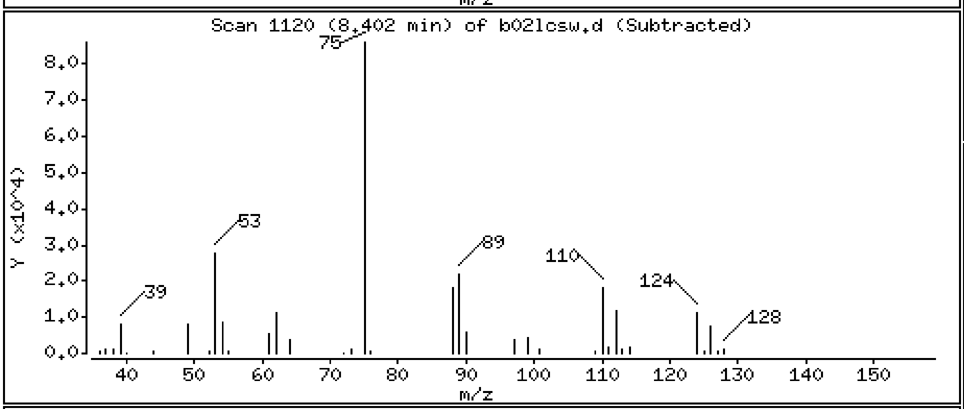
81 trans-1,4-Dichloro-2-butene

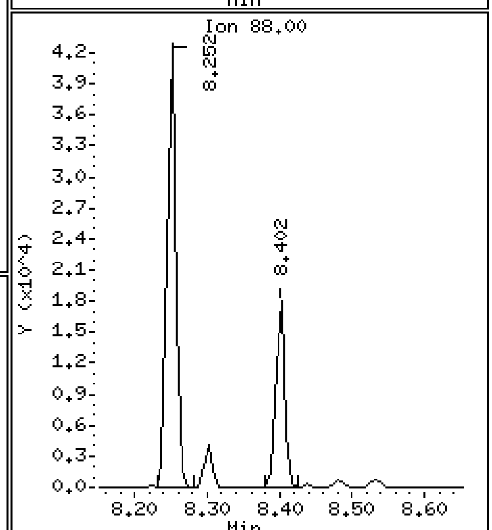
Concentration: 51.0 ppb

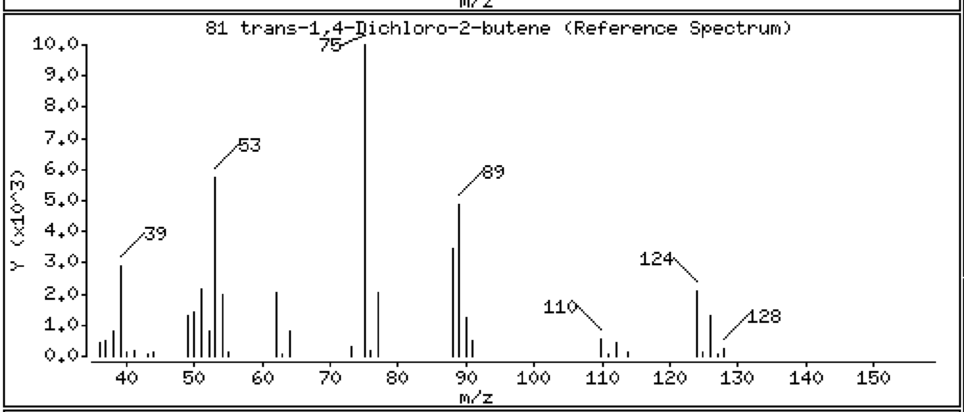
Review Code:

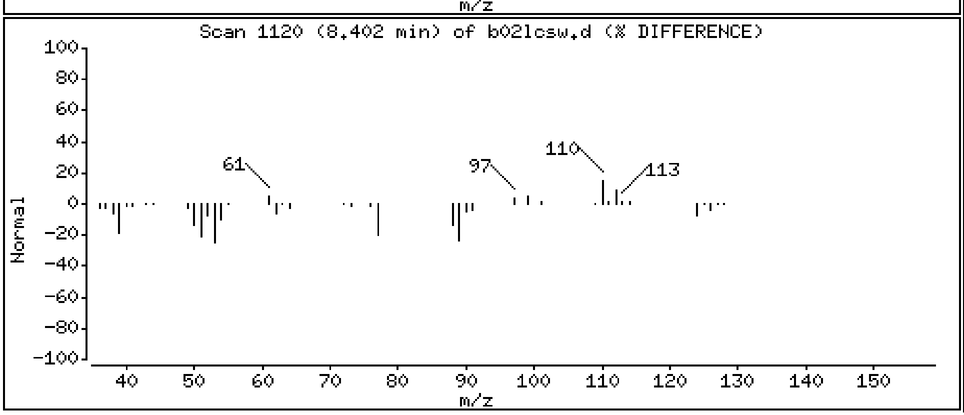


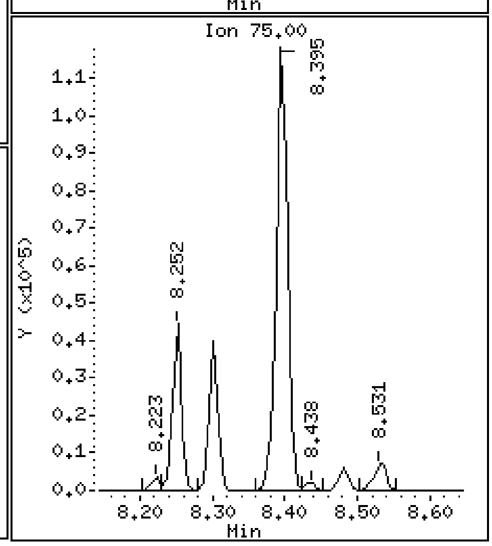












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

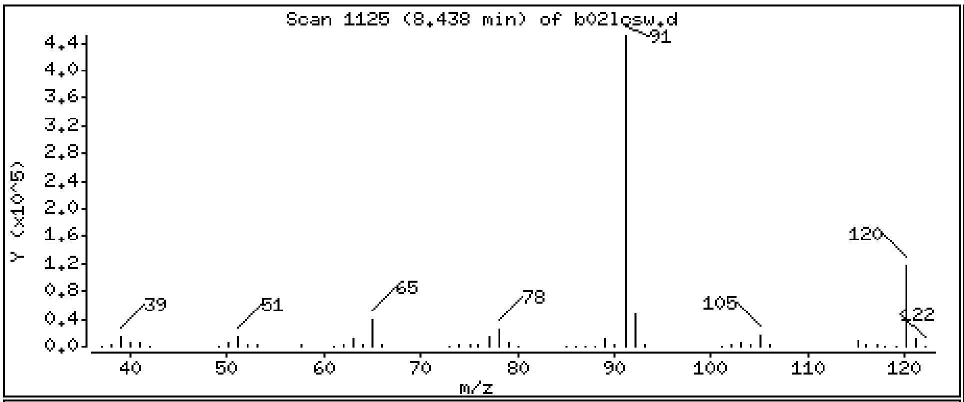
Column phase: DB-624

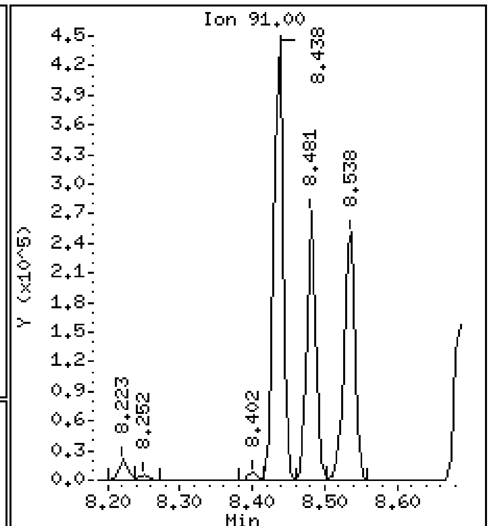
Column diameter: 0.18

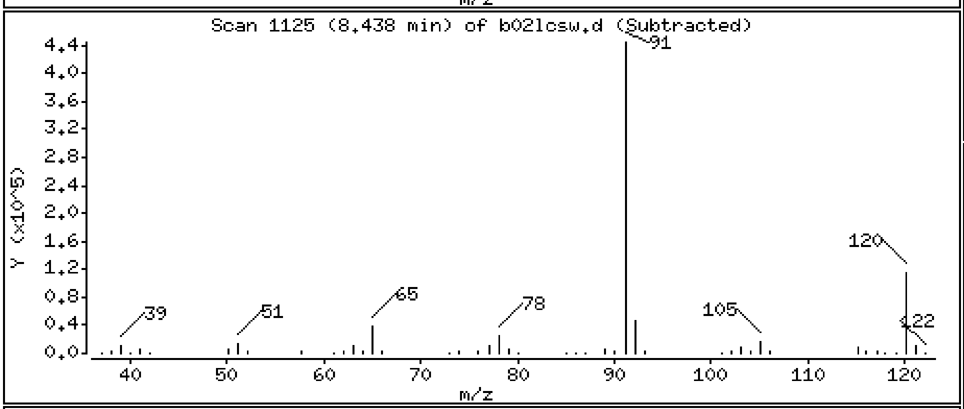
82 n-Propylbenzene

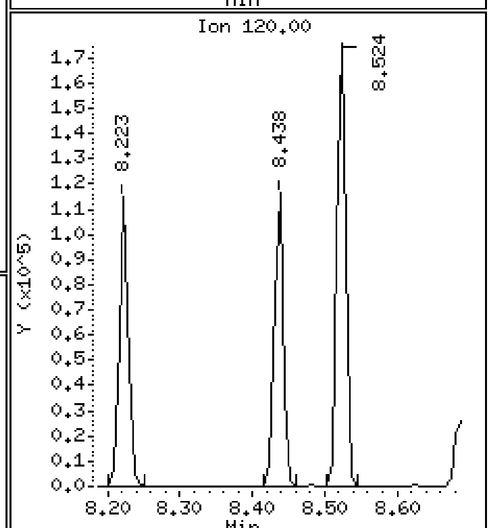
Concentration: 53.1 ppb

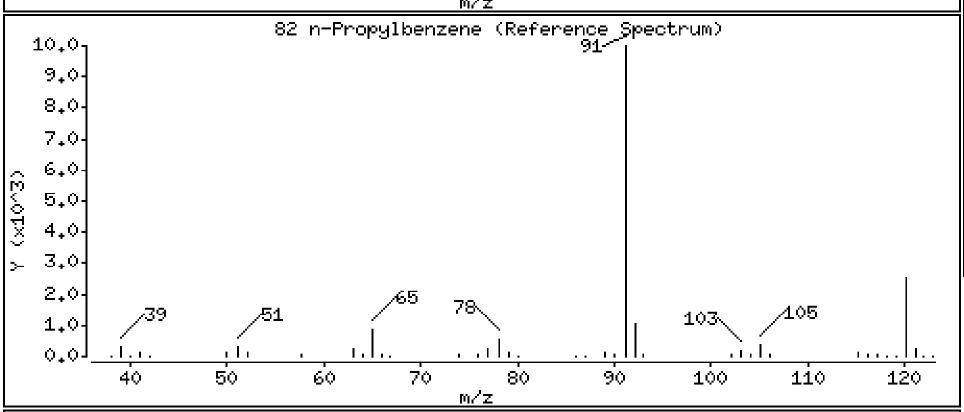
Review Code:

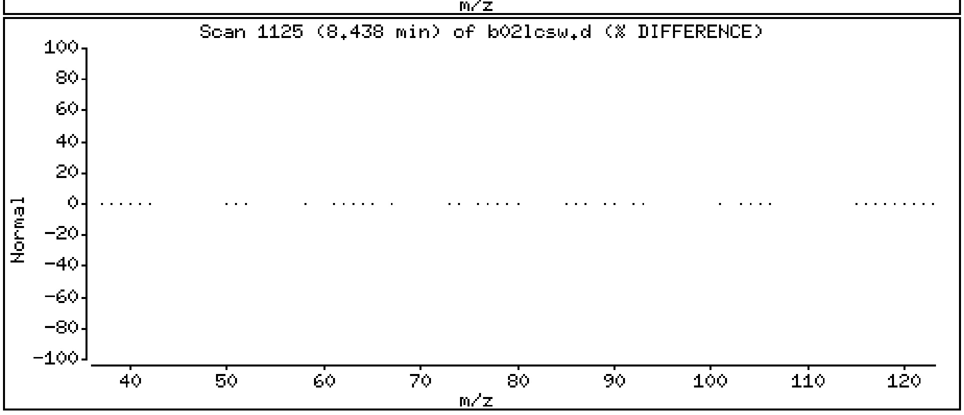












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

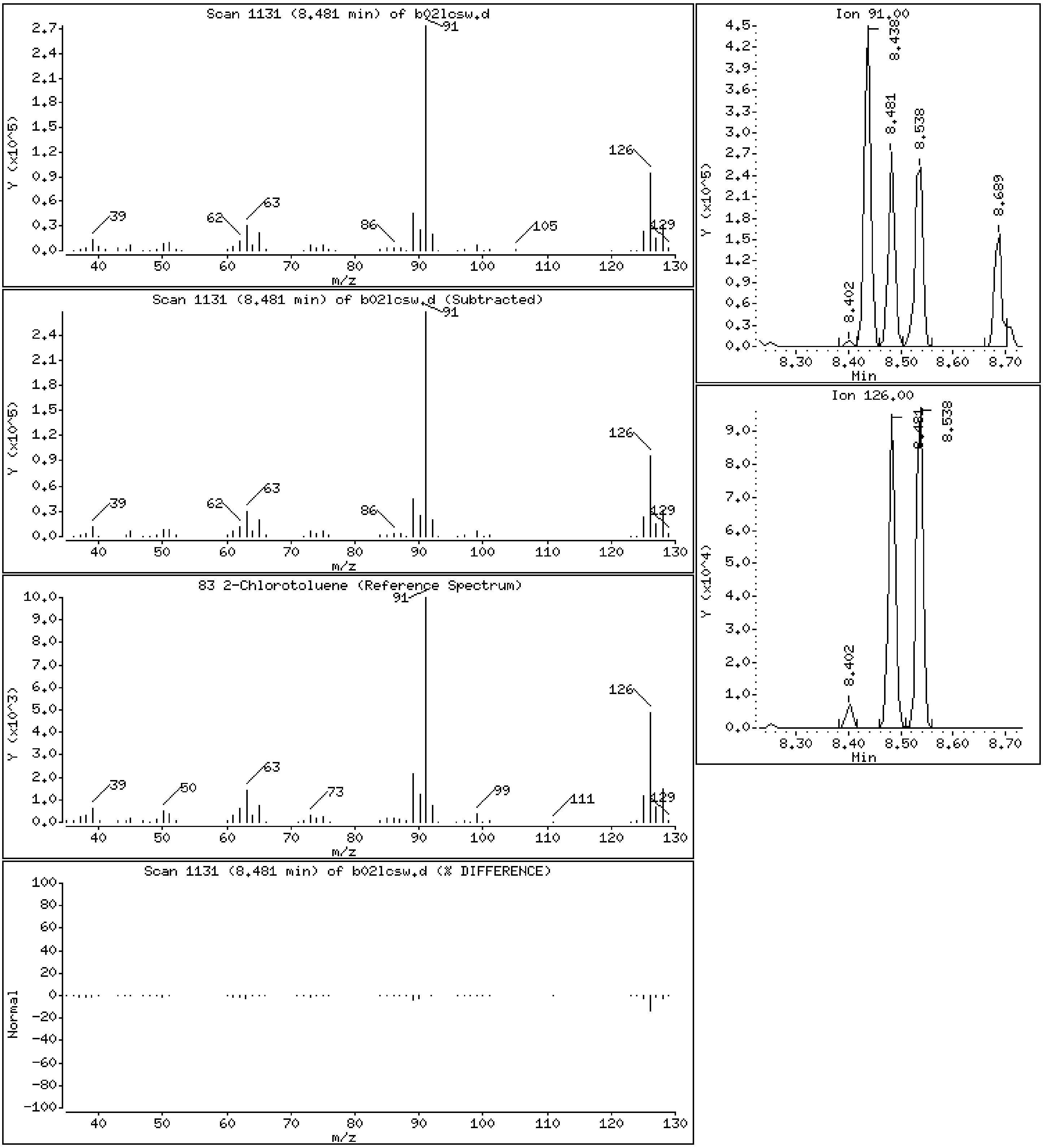
Column phase: DB-624

Column diameter: 0.18

83 2-Chlorotoluene

Concentration: 51.6 ppb

Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

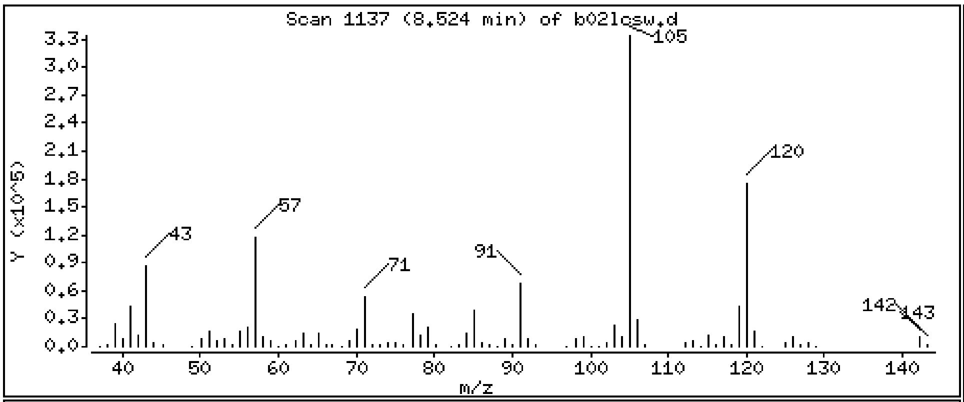
Column phase: DB-624

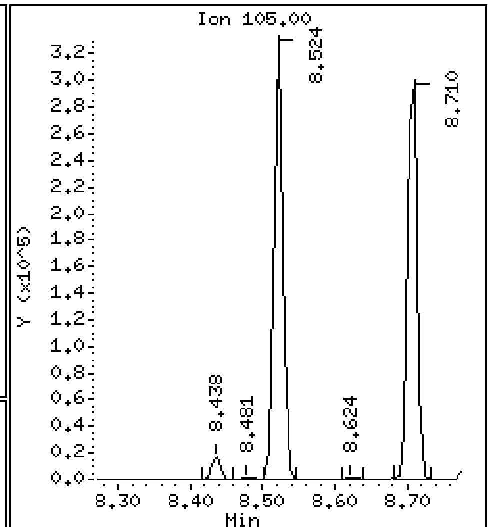
Column diameter: 0.18

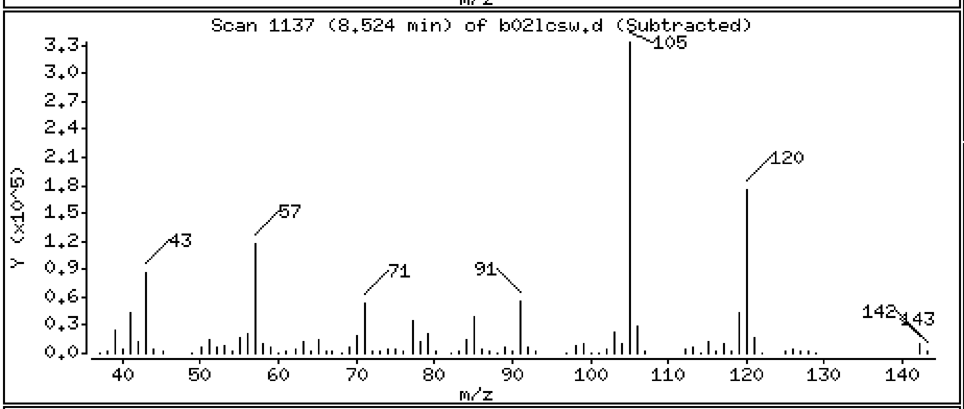
84 1,3,5-Trimethylbenzene

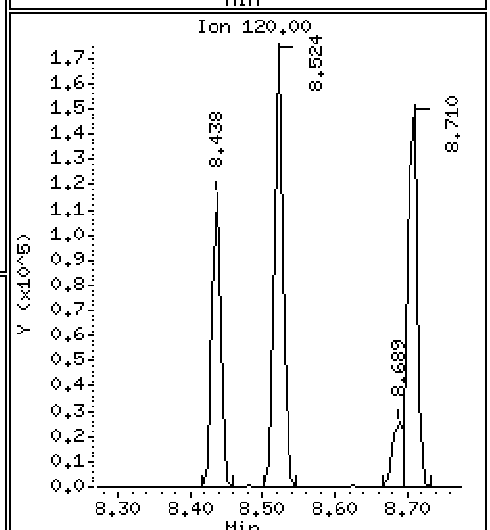
Concentration: 53.6 ppb

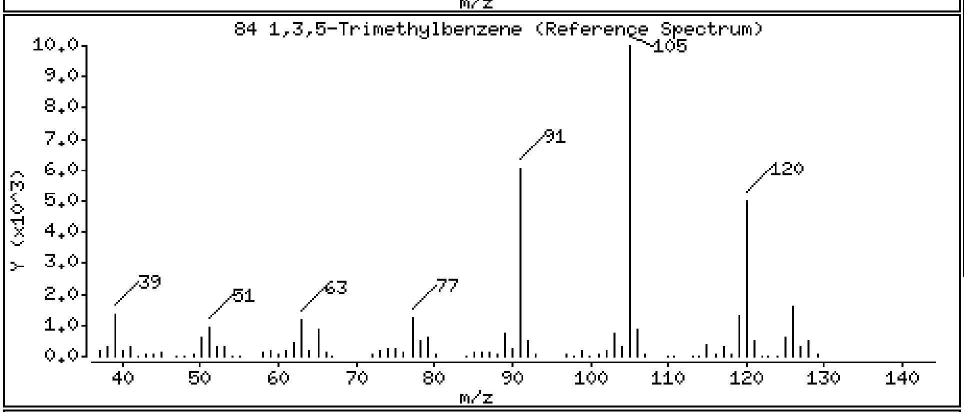
Review Code:

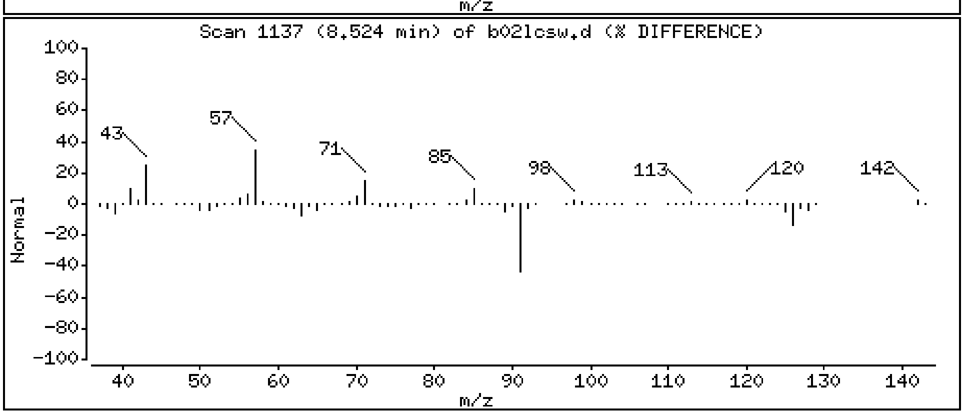












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

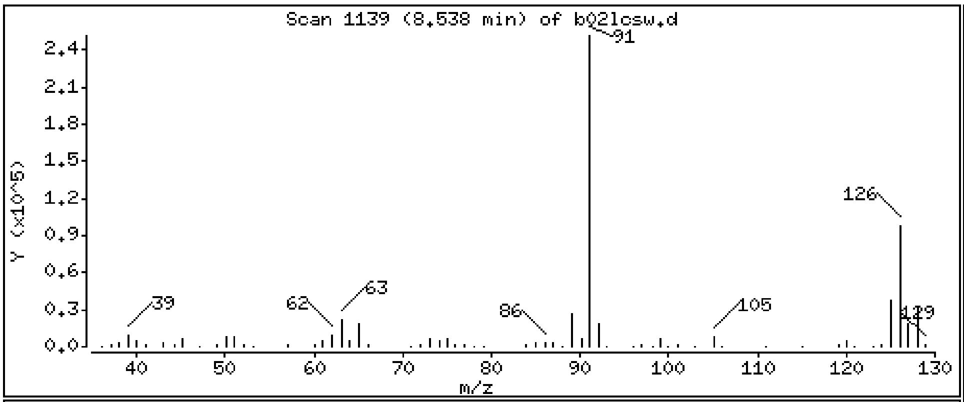
Column phase: DB-624

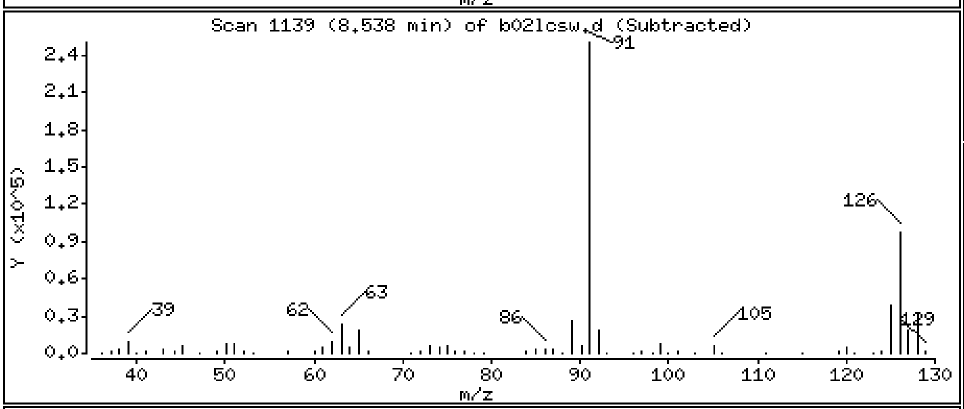
Column diameter: 0.18

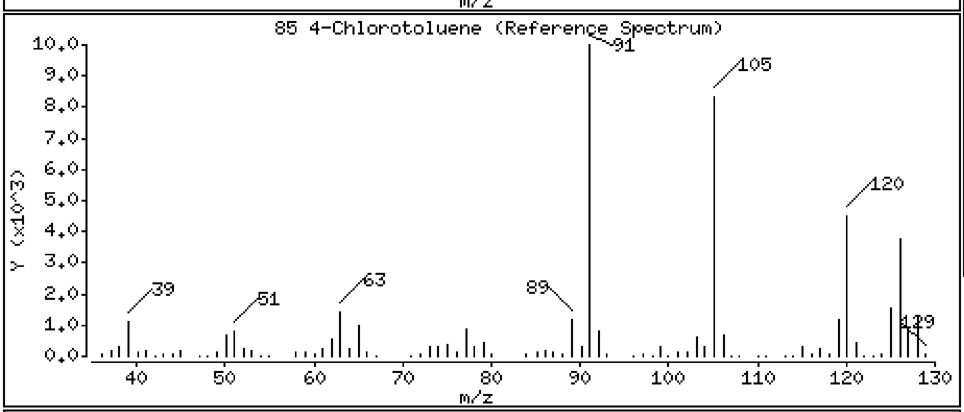
85 4-Chlorotoluene

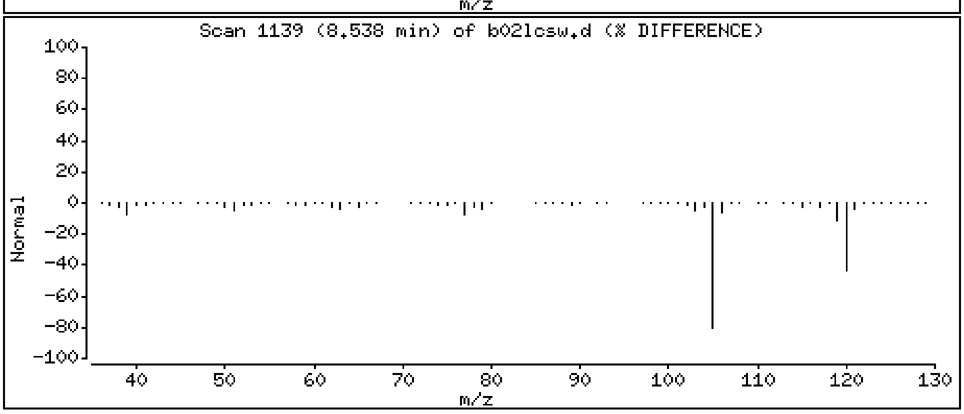
Concentration: 50.8 ppb

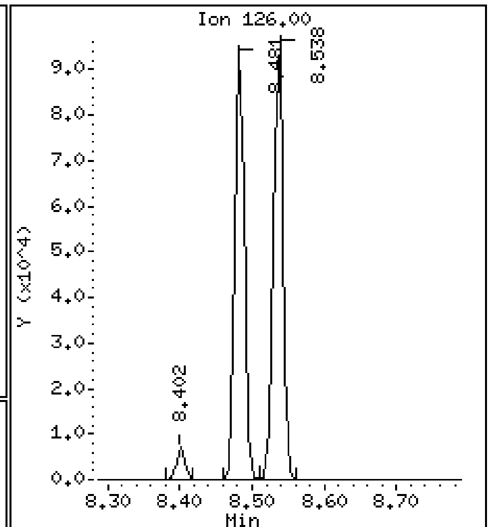
Review Code:

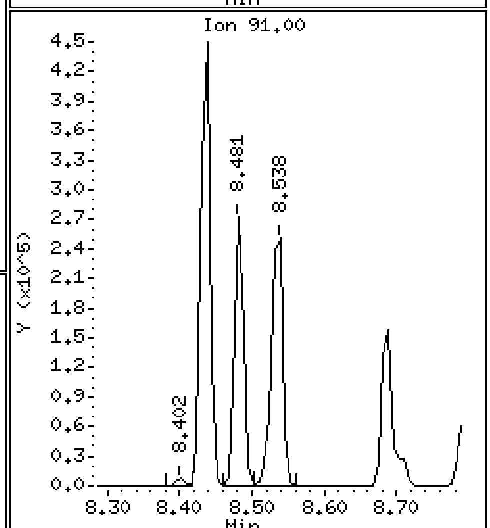












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

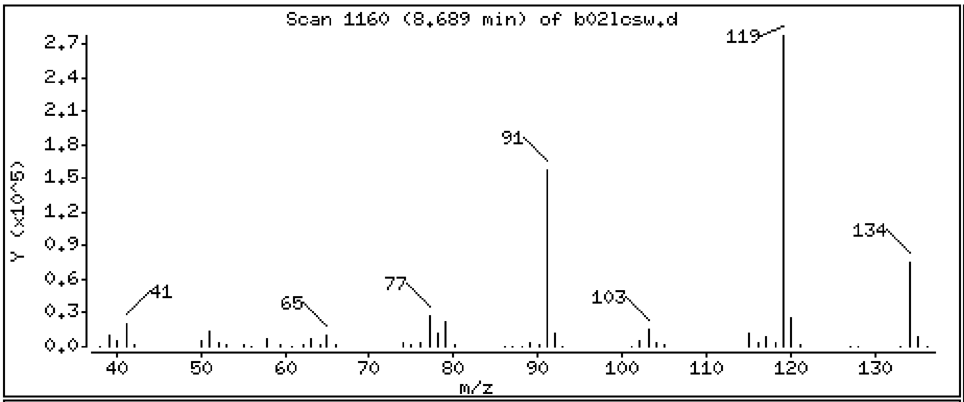
Column phase: DB-624

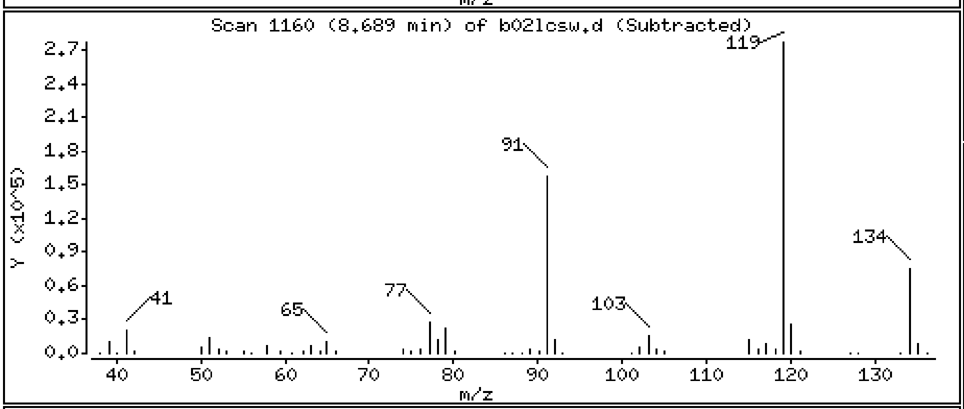
Column diameter: 0.18

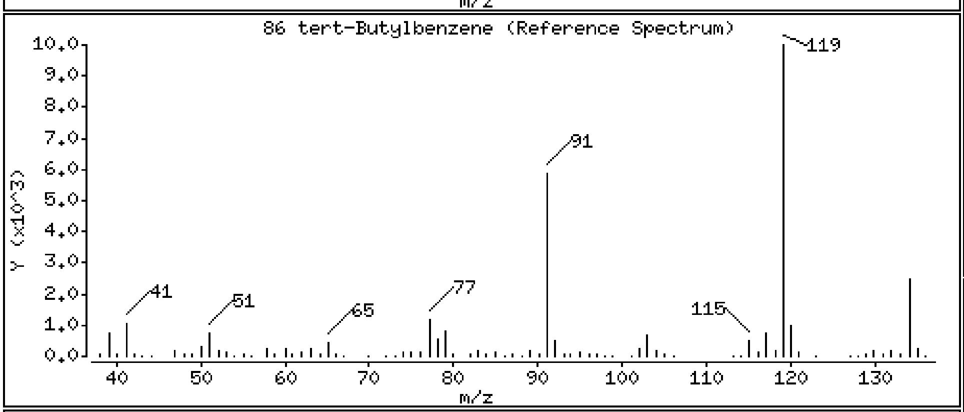
86 tert-Butylbenzene

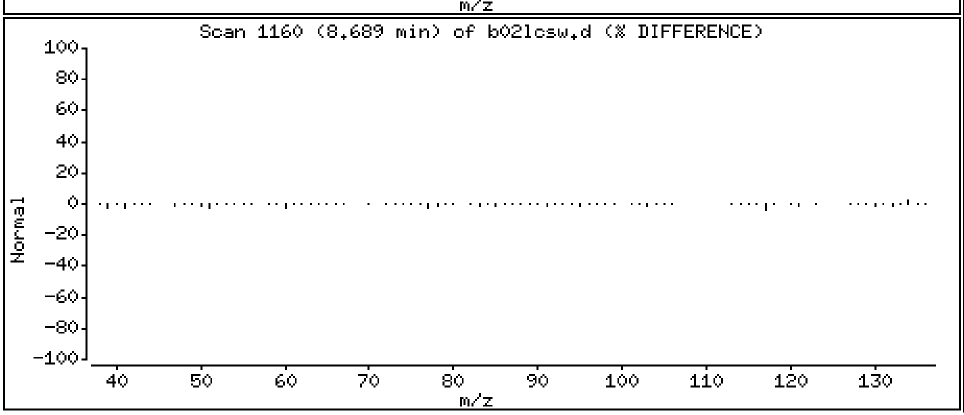
Concentration: 53.9 ppb

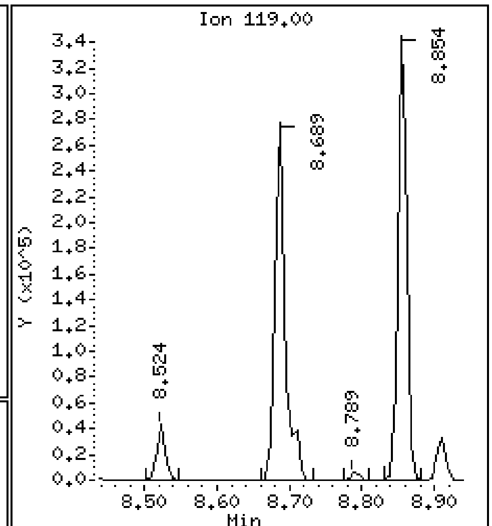
Review Code:

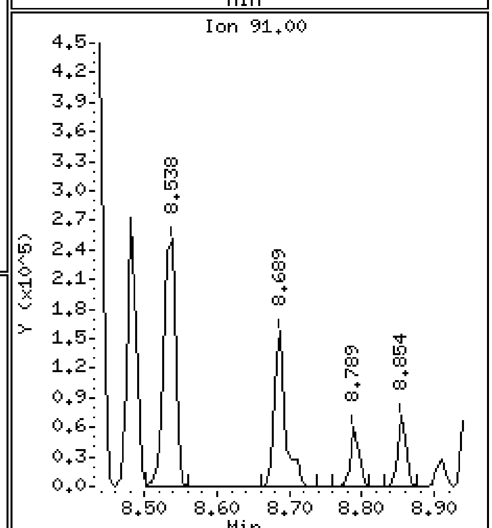


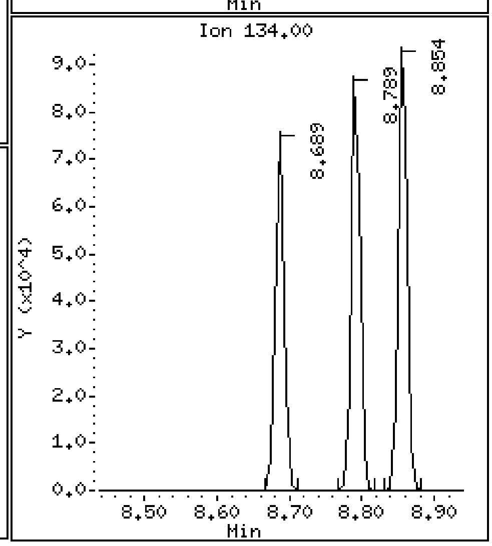












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Date : 24-JAN-2023 13:31

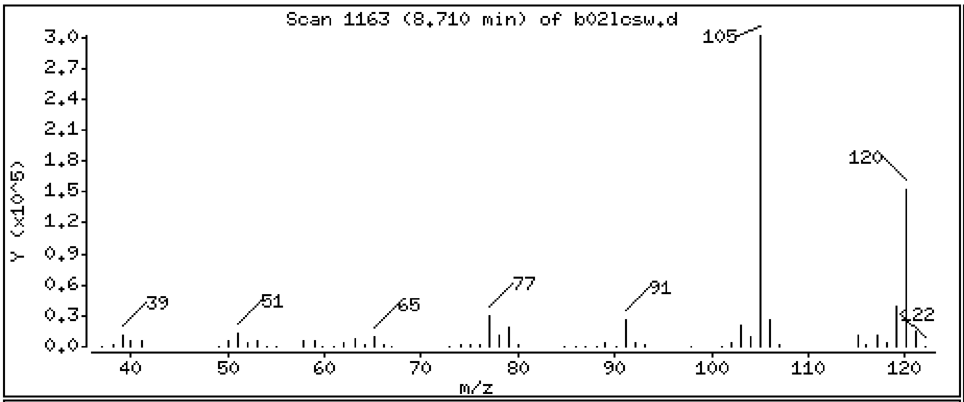
Client ID: Instrument: 50mvcb.i

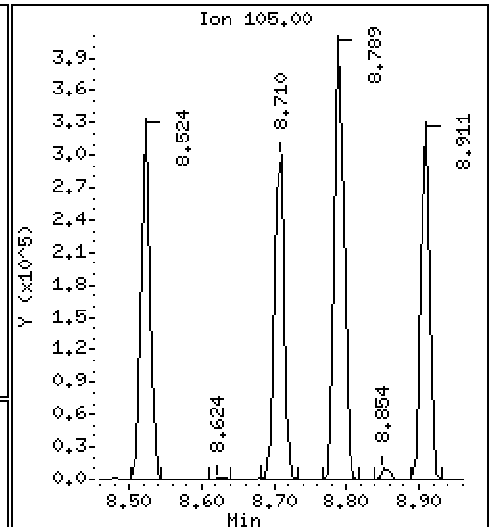
Sample Info: 3288023,335755:5

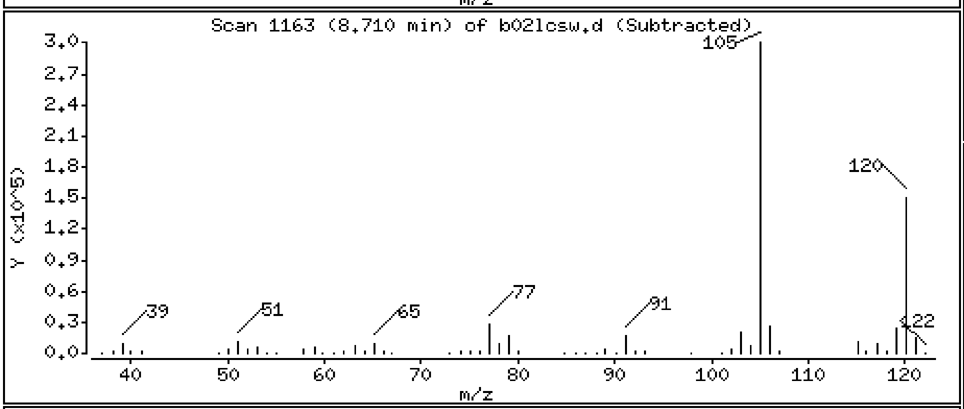
Purge Volume: 5.0 Operator: tkg

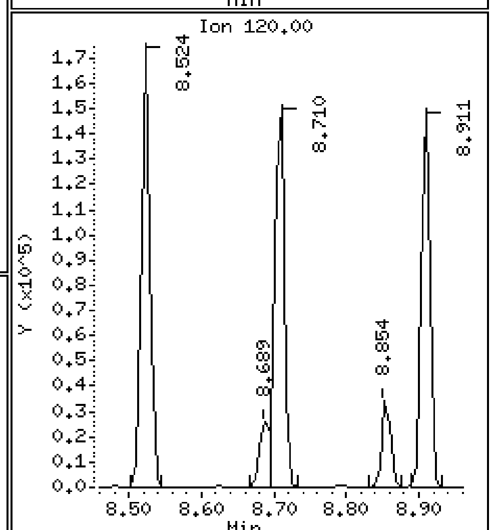
Column phase: DB-624 Column diameter: 0.18

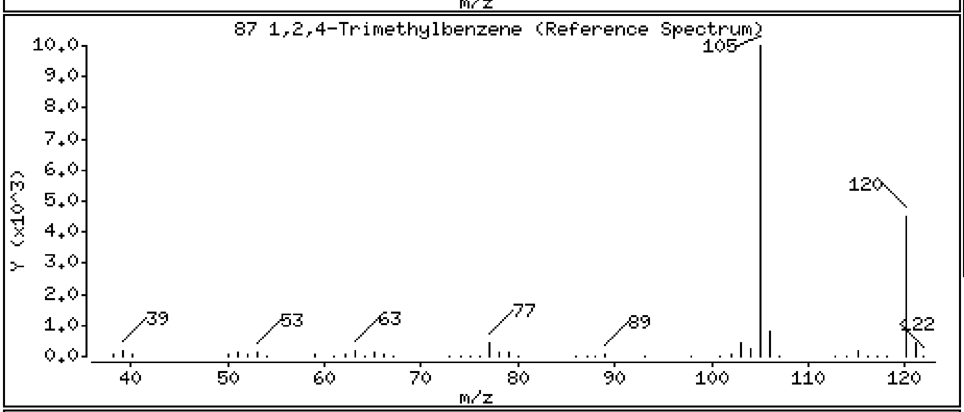
87 1,2,4-Trimethylbenzene Concentration: 53.8 ppb Review Code:

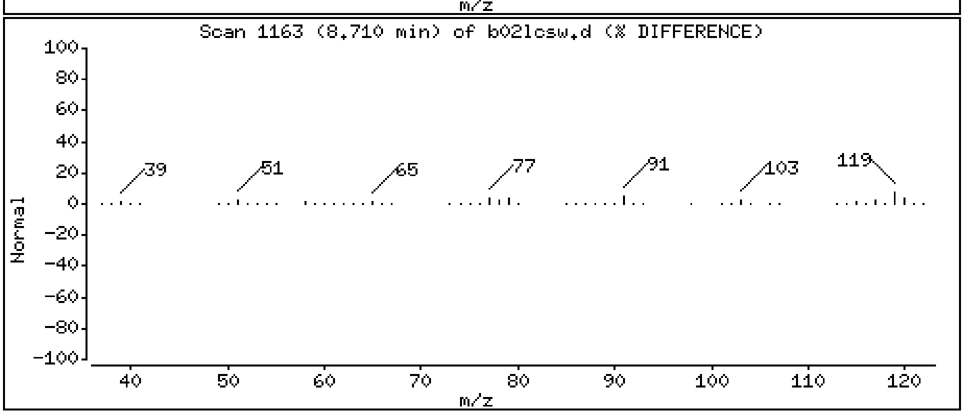












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

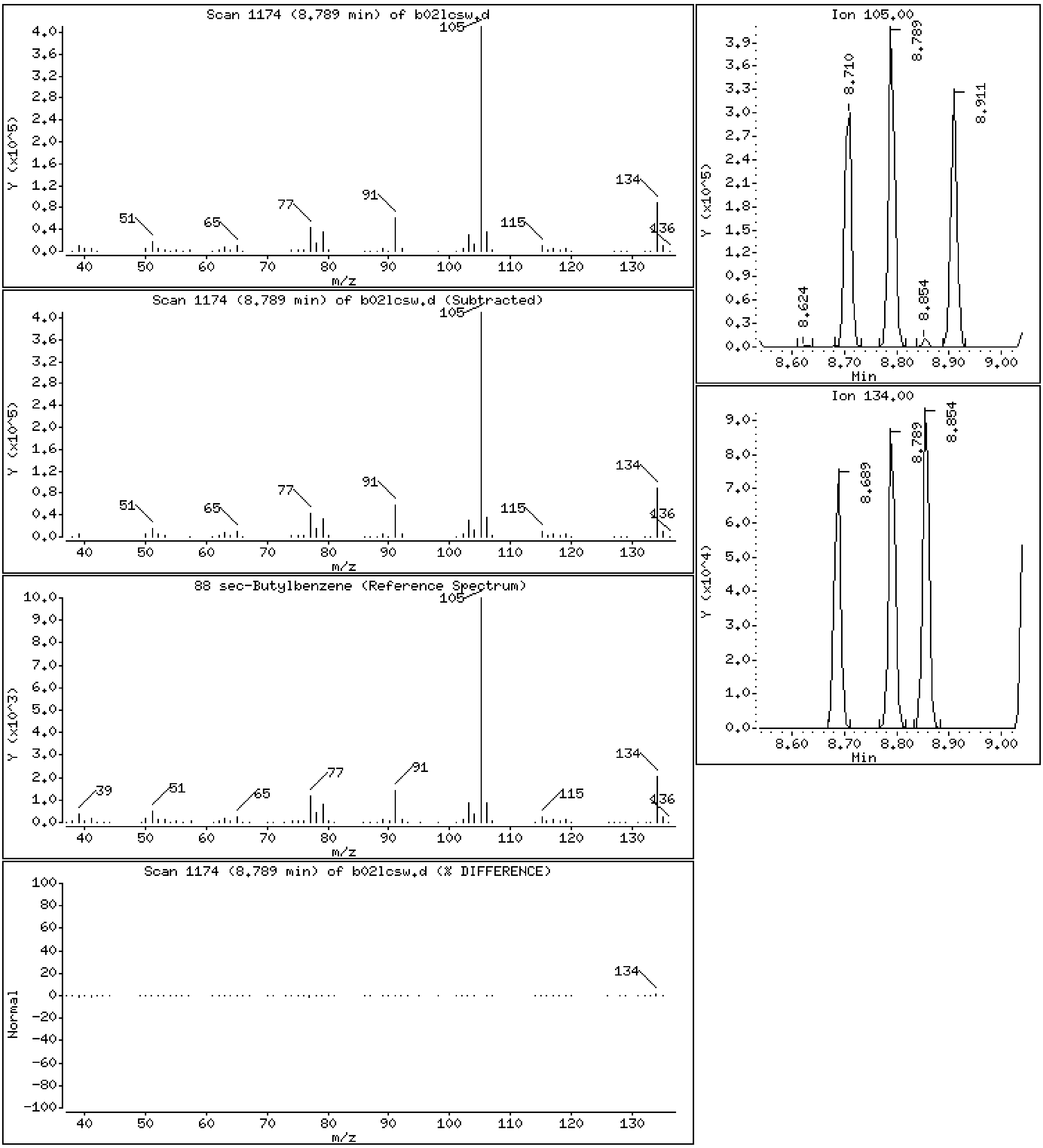
Column phase: DB-624

Column diameter: 0.18

88 sec-Butylbenzene

Concentration: 54.1 ppb

Review Code:



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Date : 24-JAN-2023 13:31

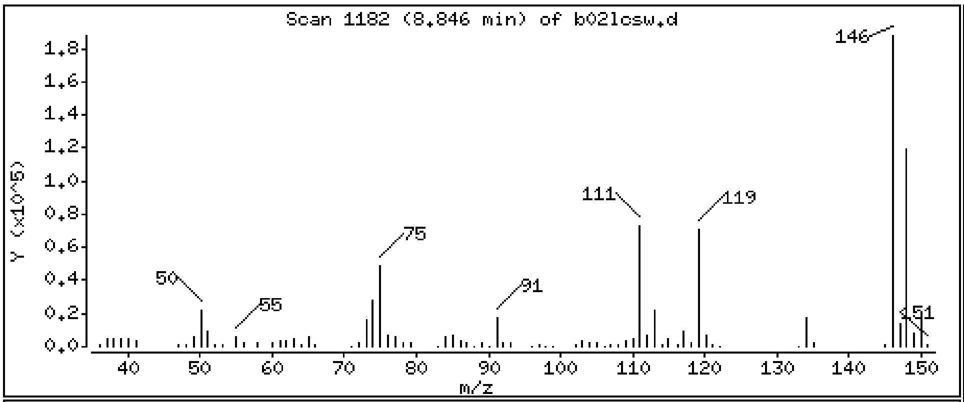
Client ID: Instrument: 50mvcb.i

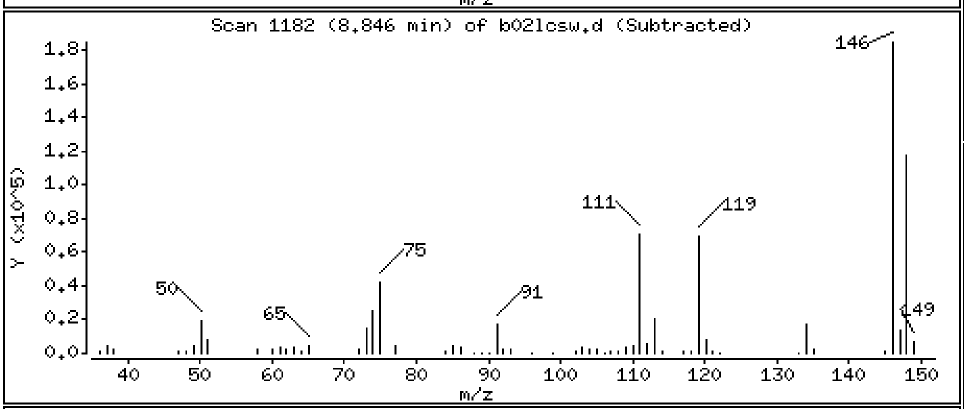
Sample Info: 3288023,335755:5

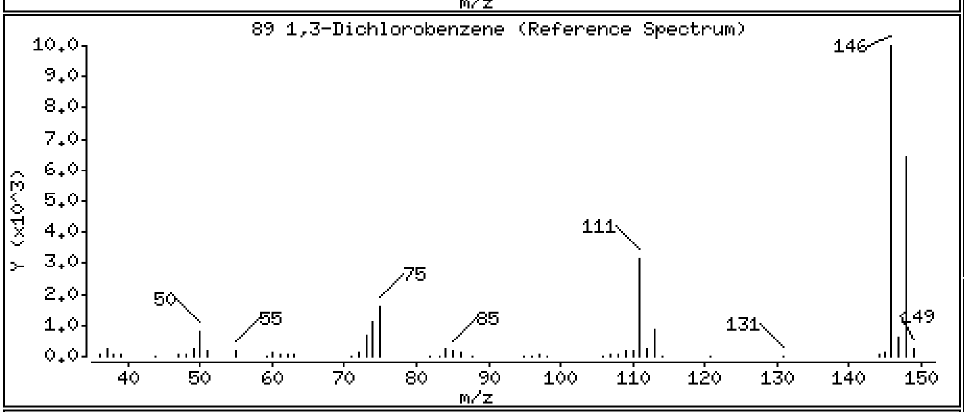
Purge Volume: 5.0 Operator: tkg

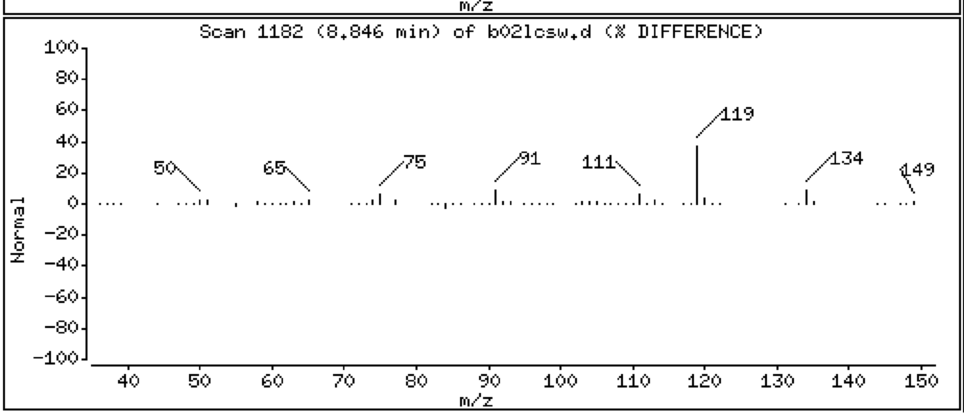
Column phase: DB-624 Column diameter: 0.18

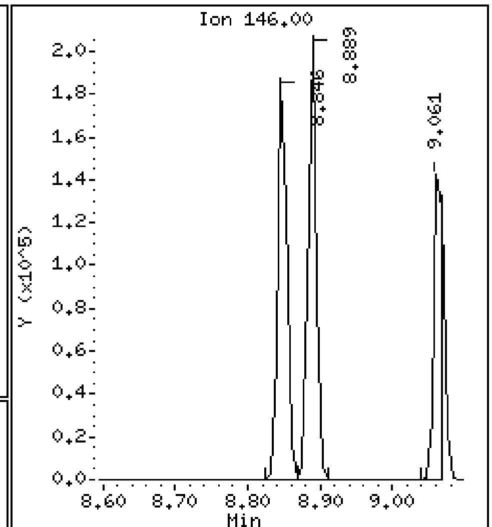
89 1,3-Dichlorobenzene Concentration: 52.9 ppb Review Code:

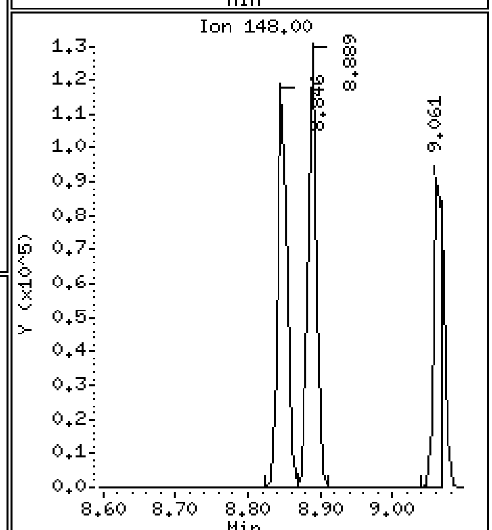


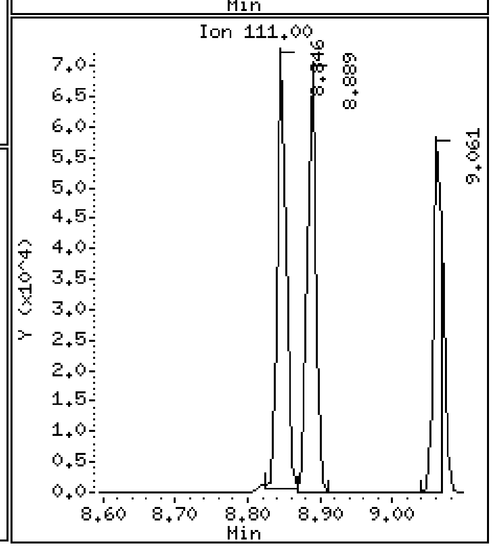












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

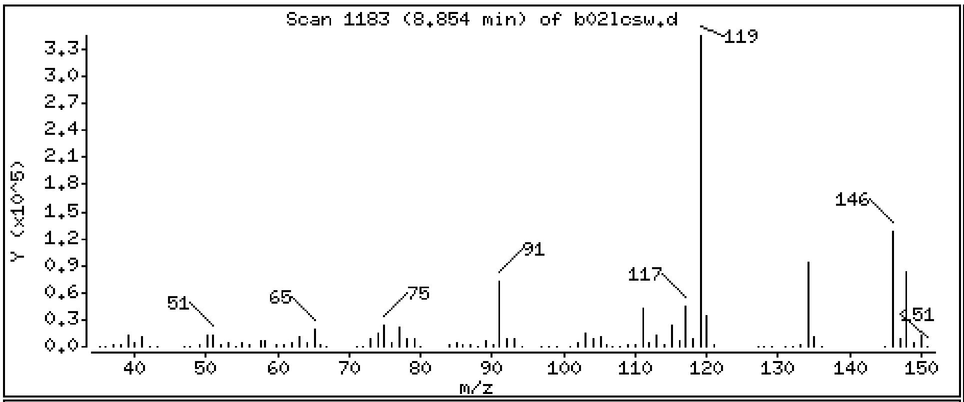
Column phase: DB-624

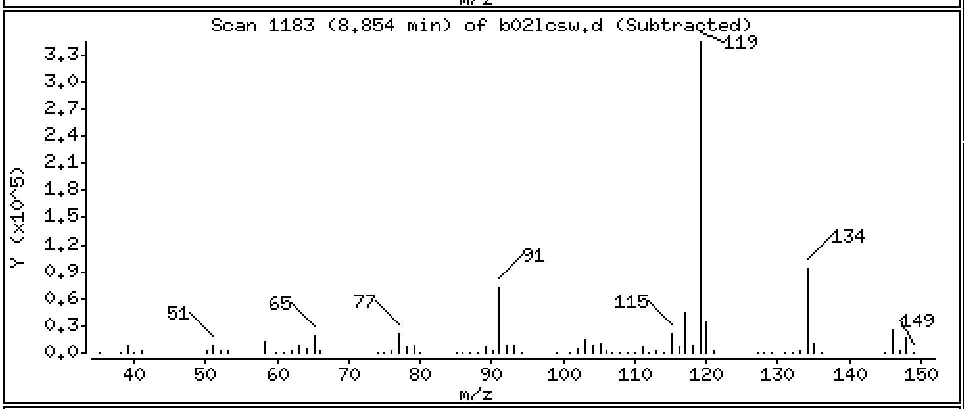
Column diameter: 0.18

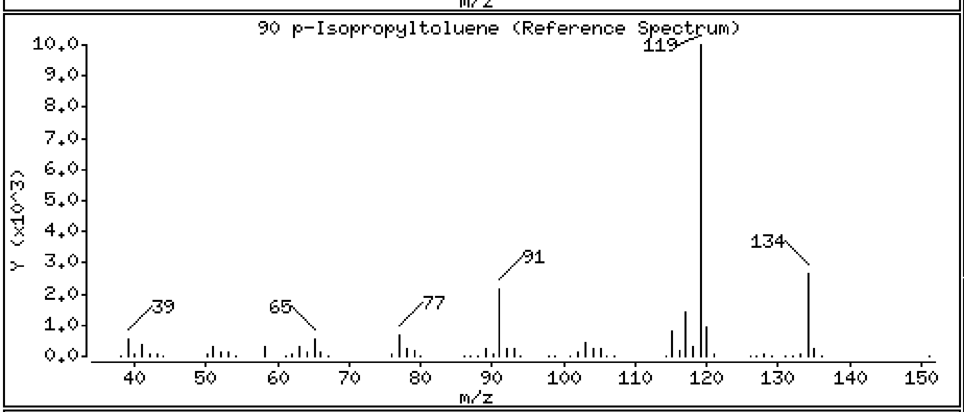
90 p-Isopropyltoluene

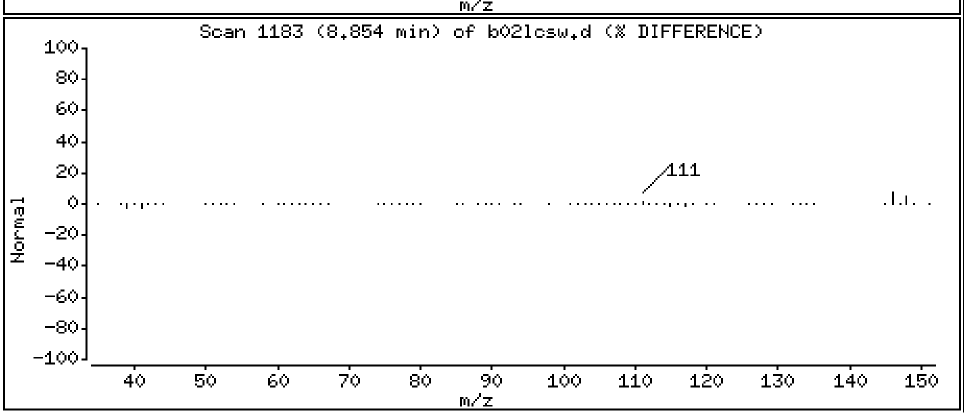
Concentration: 54.4 ppb

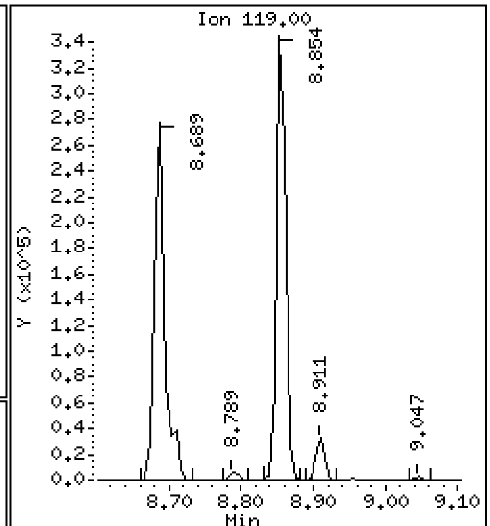
Review Code:

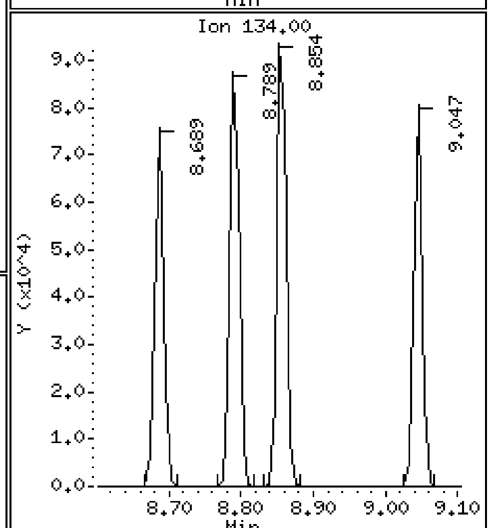


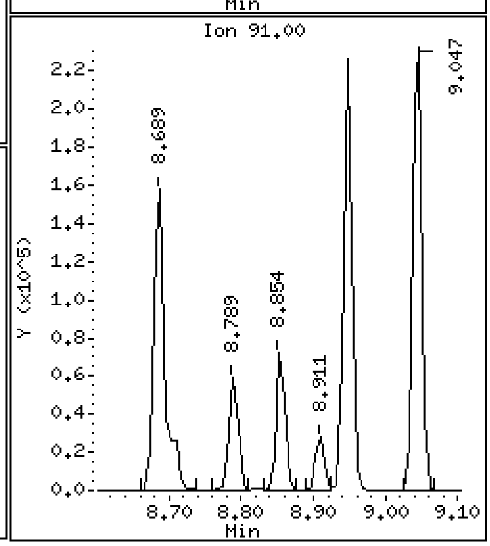












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

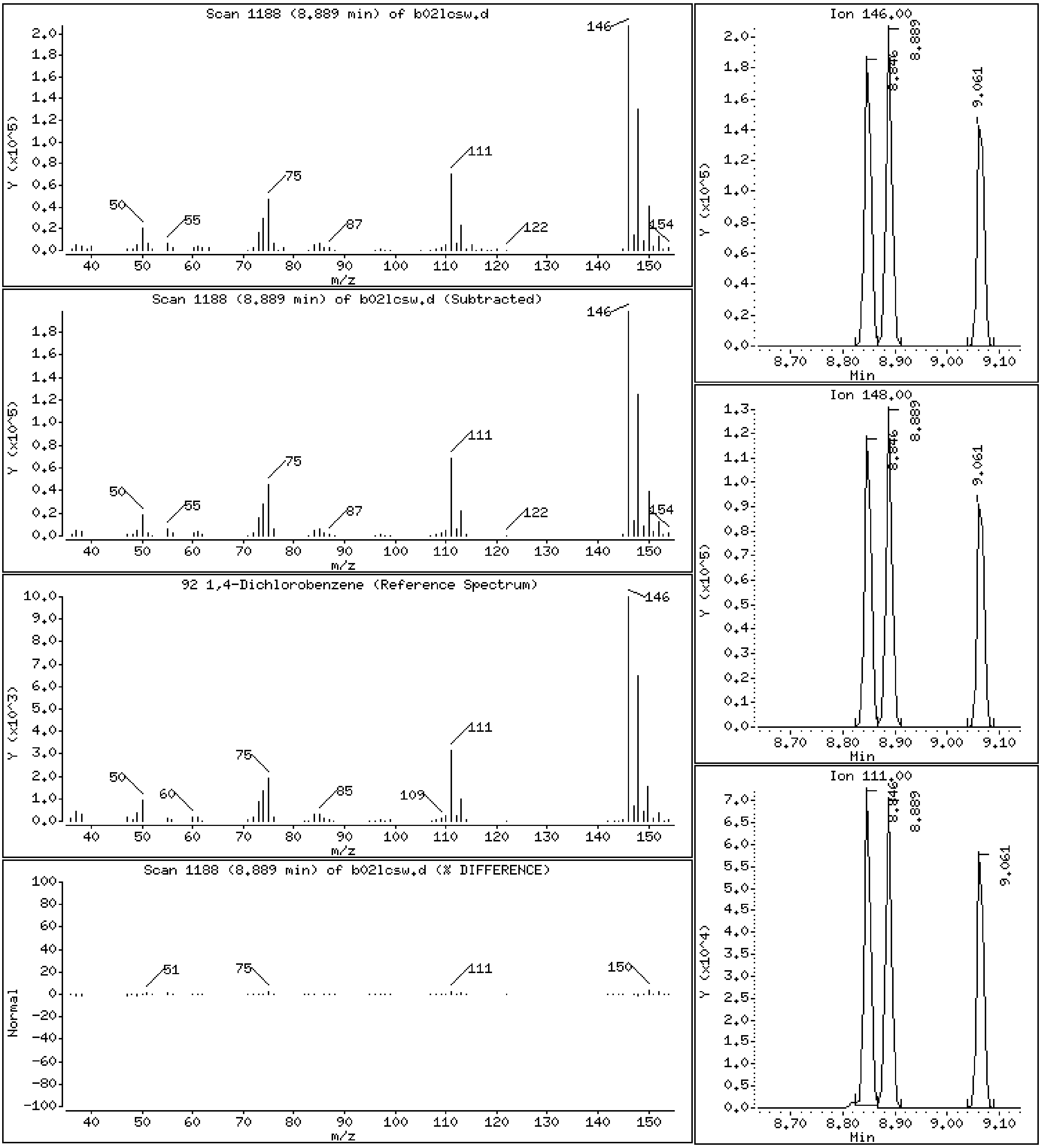
Column phase: DB-624

Column diameter: 0.18

92 1,4-Dichlorobenzene

Concentration: 51.3 ppb

Review Code:



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Page 91

Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

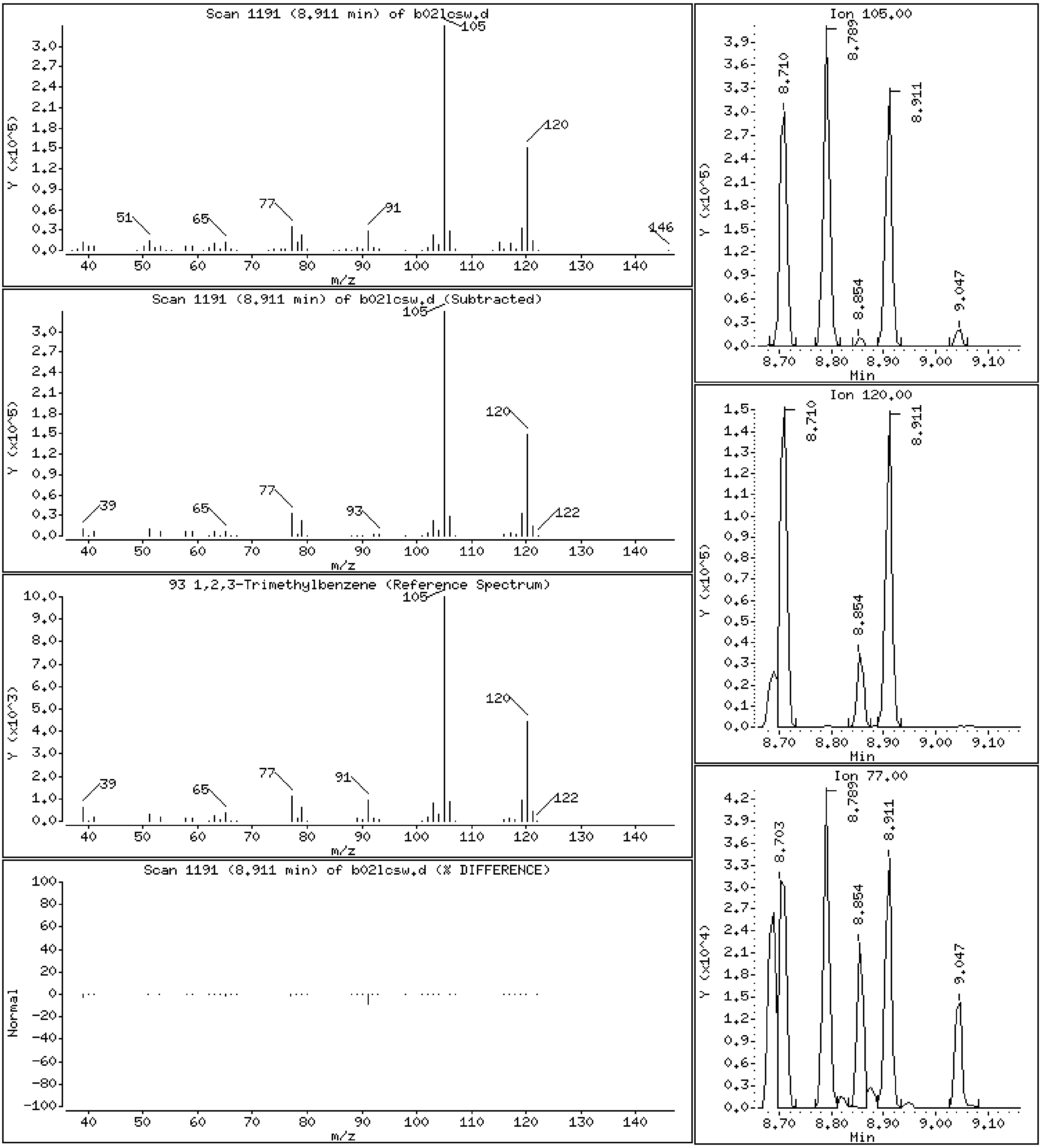
Column phase: DB-624

Column diameter: 0.18

93 1,2,3-Trimethylbenzene

Concentration: 51.5 ppb

Review Code:



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Date : 24-JAN-2023 13:31

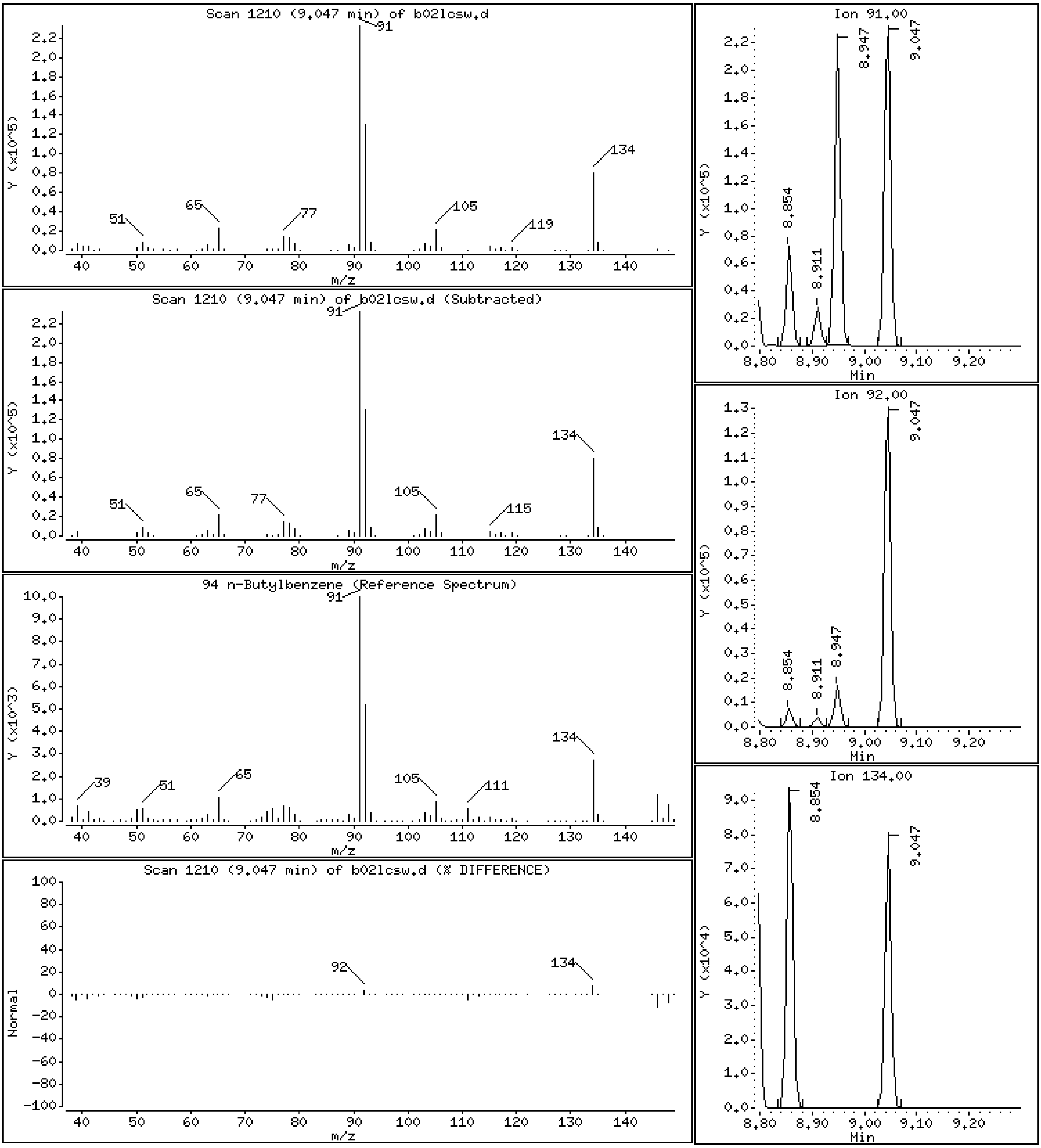
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

94 n-Butylbenzene Concentration: 46.9 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

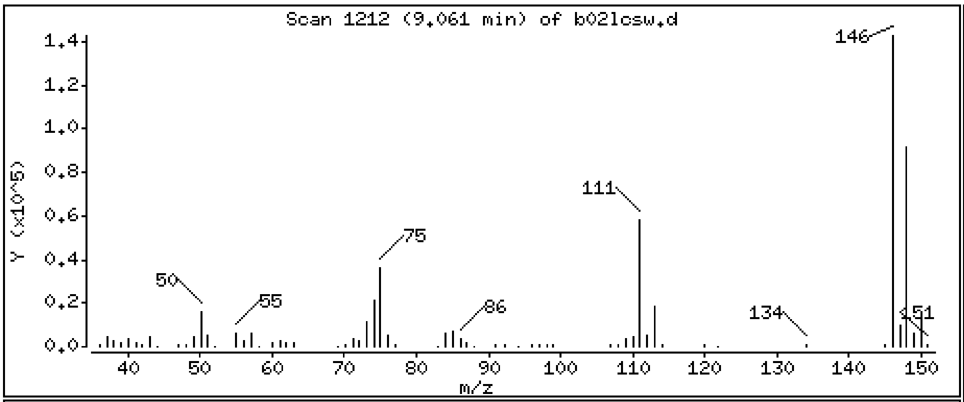
Column phase: DB-624

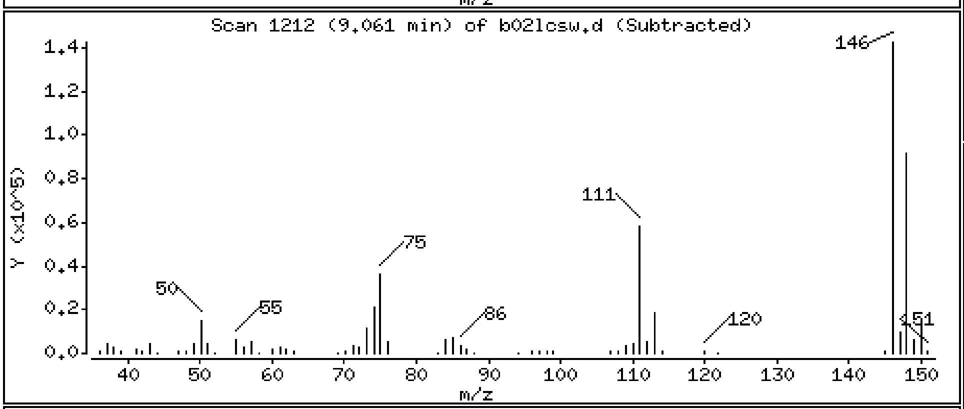
Column diameter: 0.18

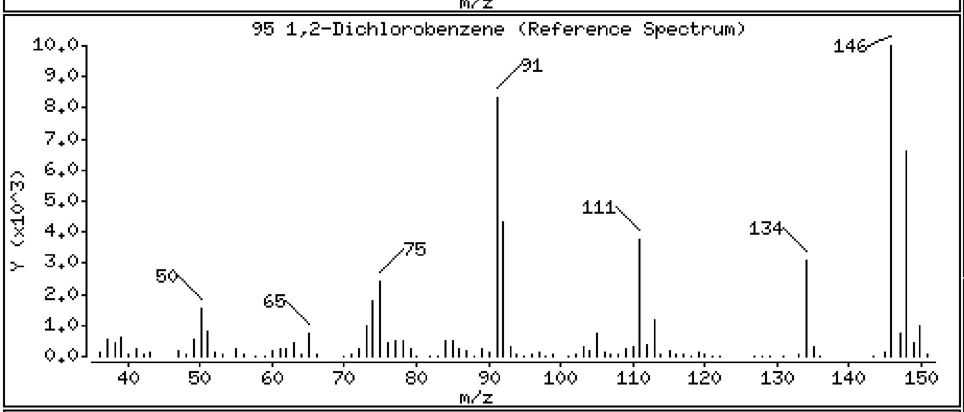
95 1,2-Dichlorobenzene

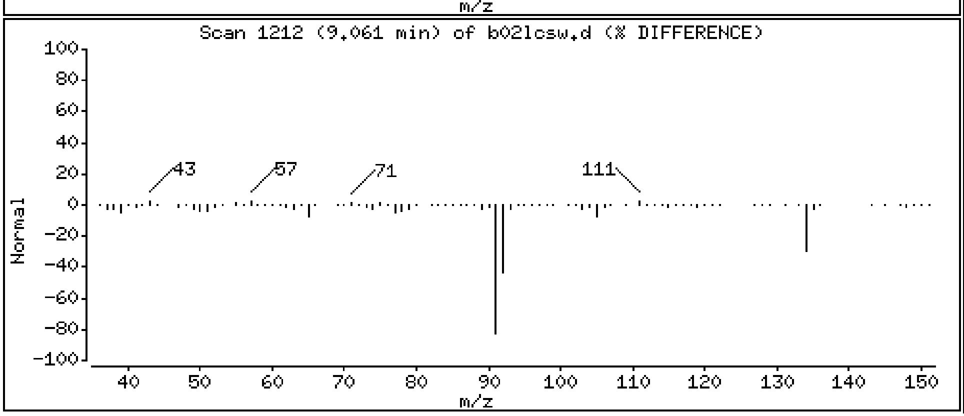
Concentration: 45.7 ppb

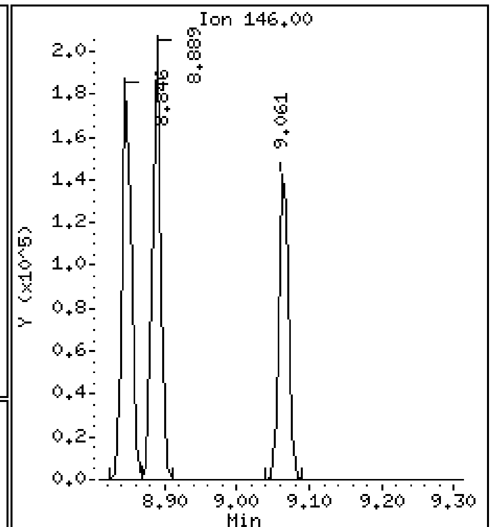
Review Code:

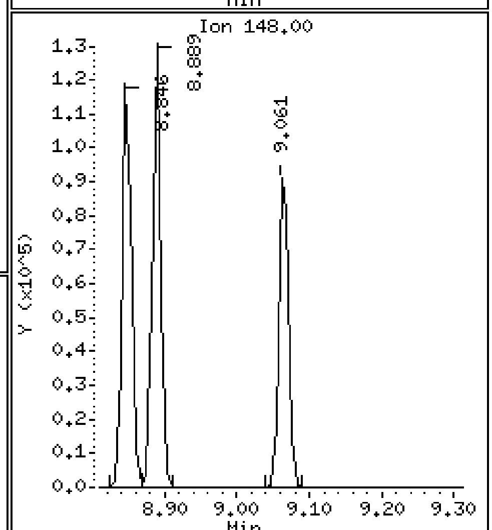


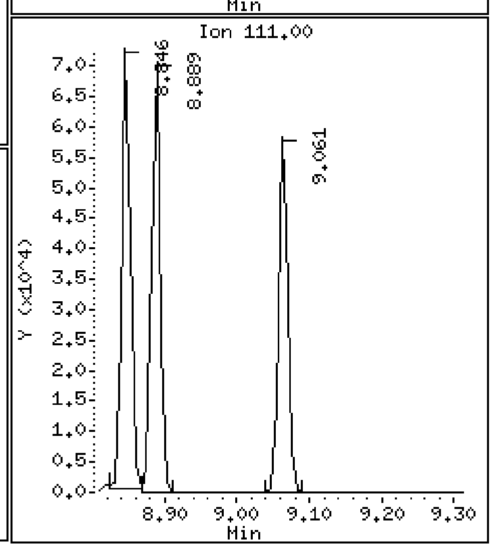












Date : 24-JAN-2023 13:31

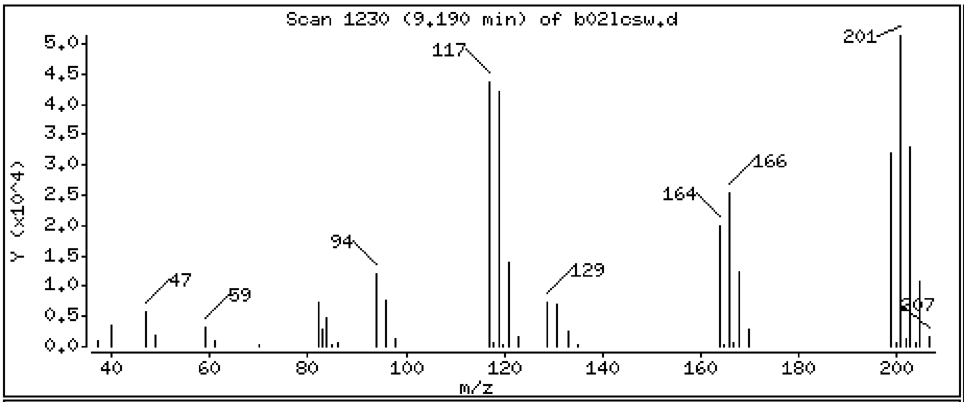
Client ID: Instrument: 50mvcb.i

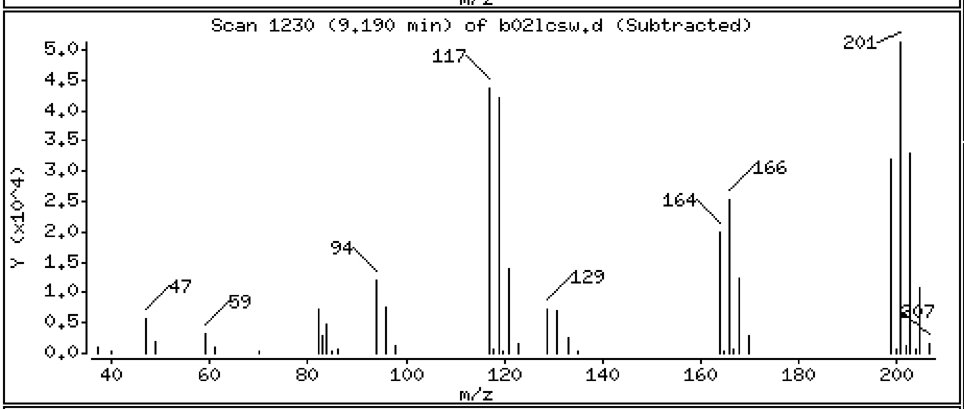
Sample Info: 3288023,335755:5

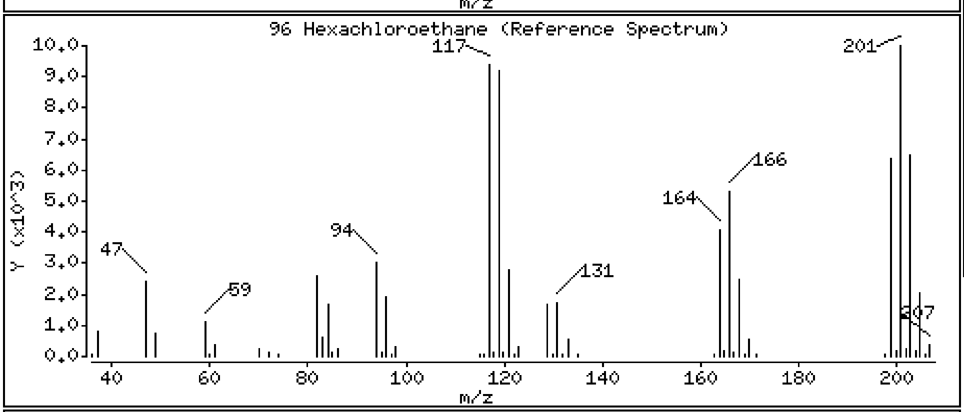
Purge Volume: 5.0 Operator: tkg

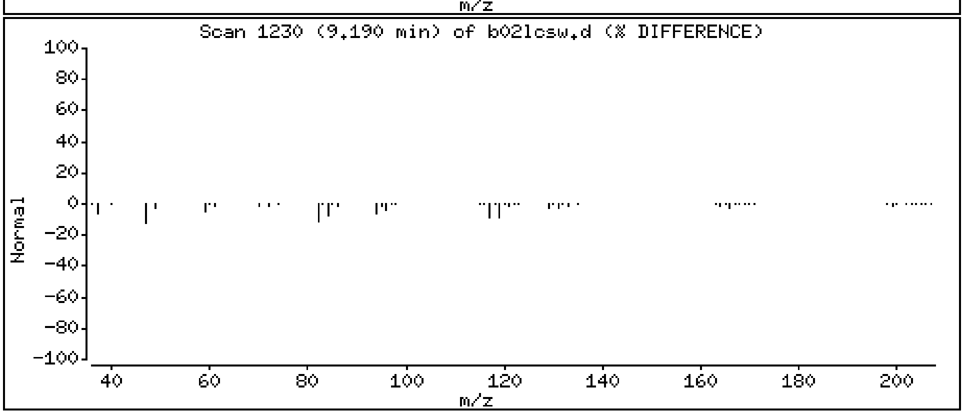
Column phase: DB-624 Column diameter: 0.18

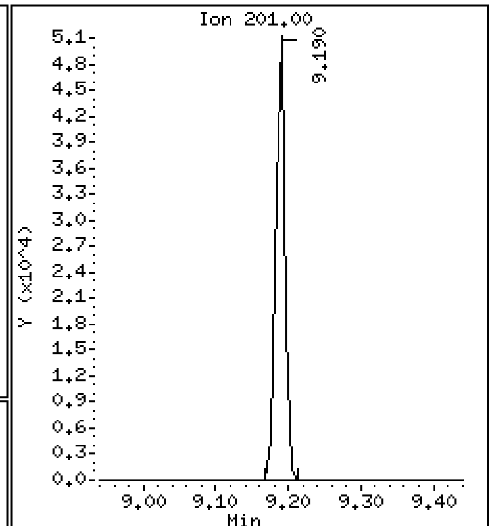
96 Hexachloroethane Concentration: 52.8 ppb Review Code:

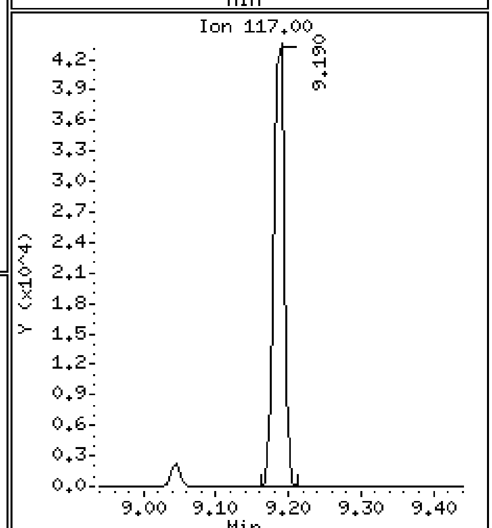












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

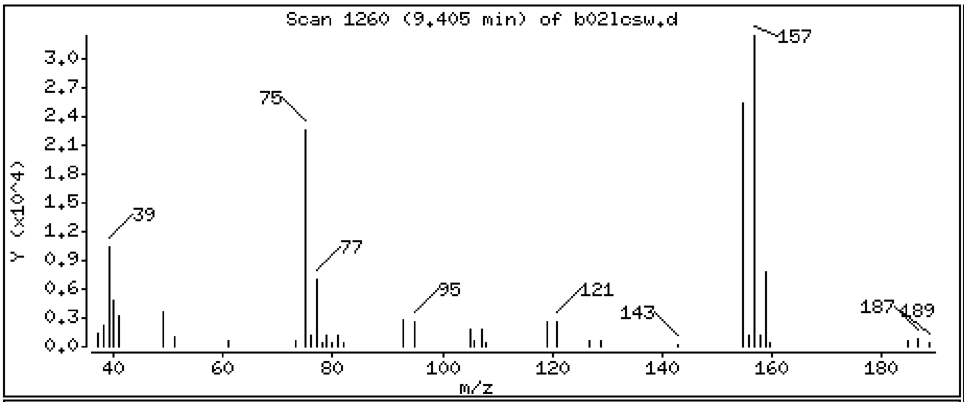
Column phase: DB-624

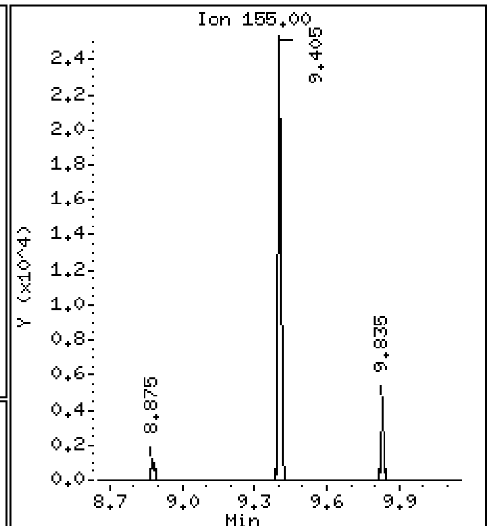
Column diameter: 0.18

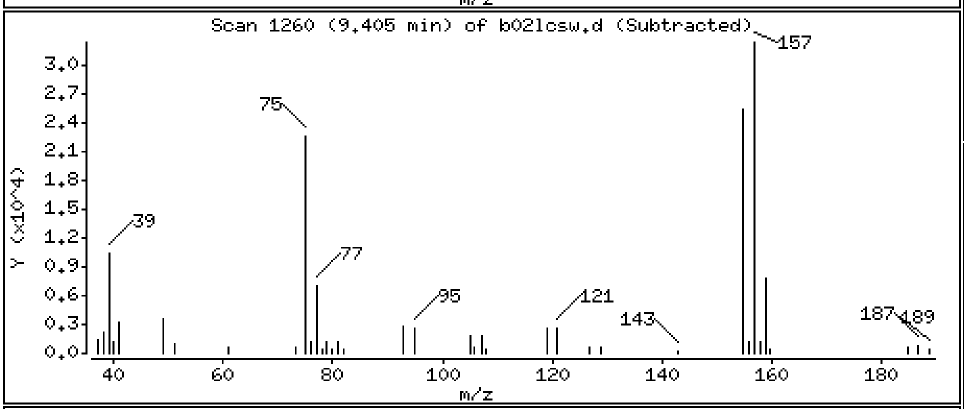
97 1,2-Dibromo-3-chloropropane

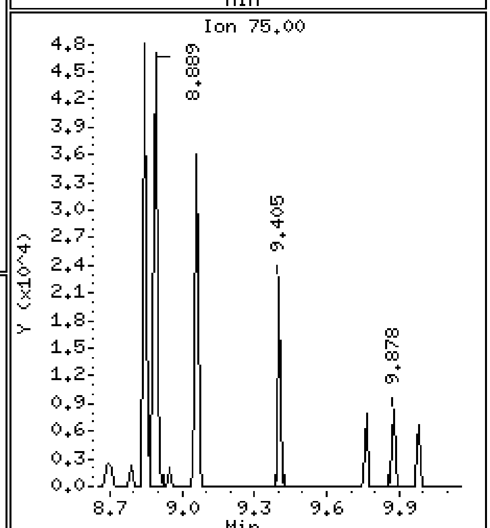
Concentration: 52.6 ppb

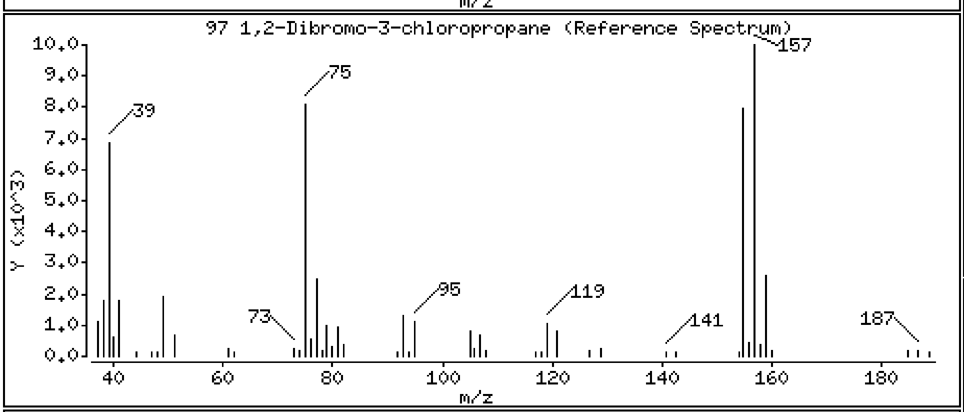
Review Code:

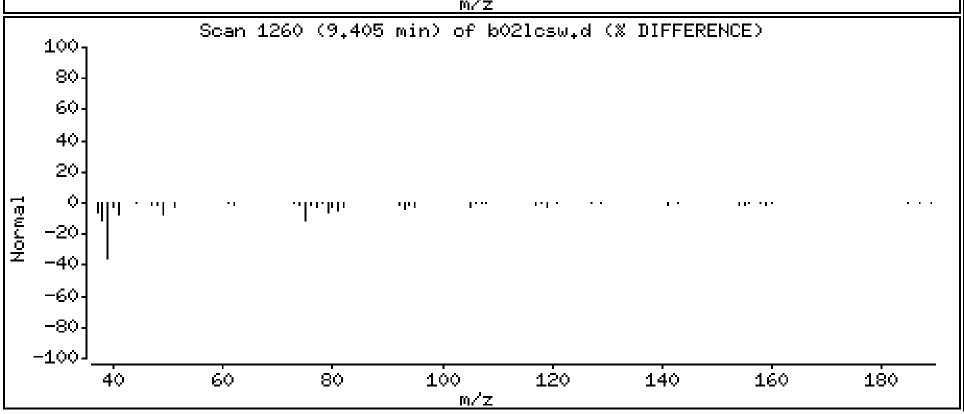


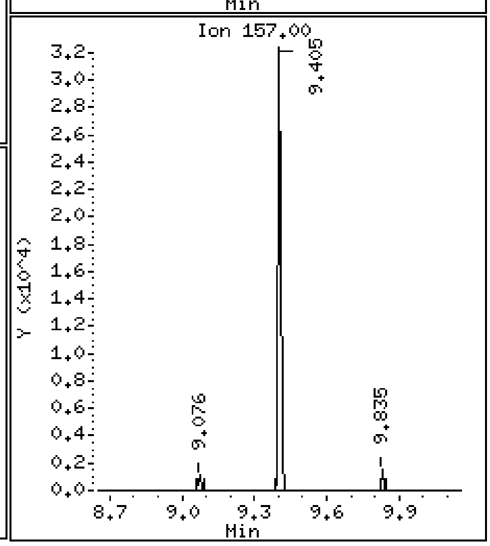












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Date : 24-JAN-2023 13:31

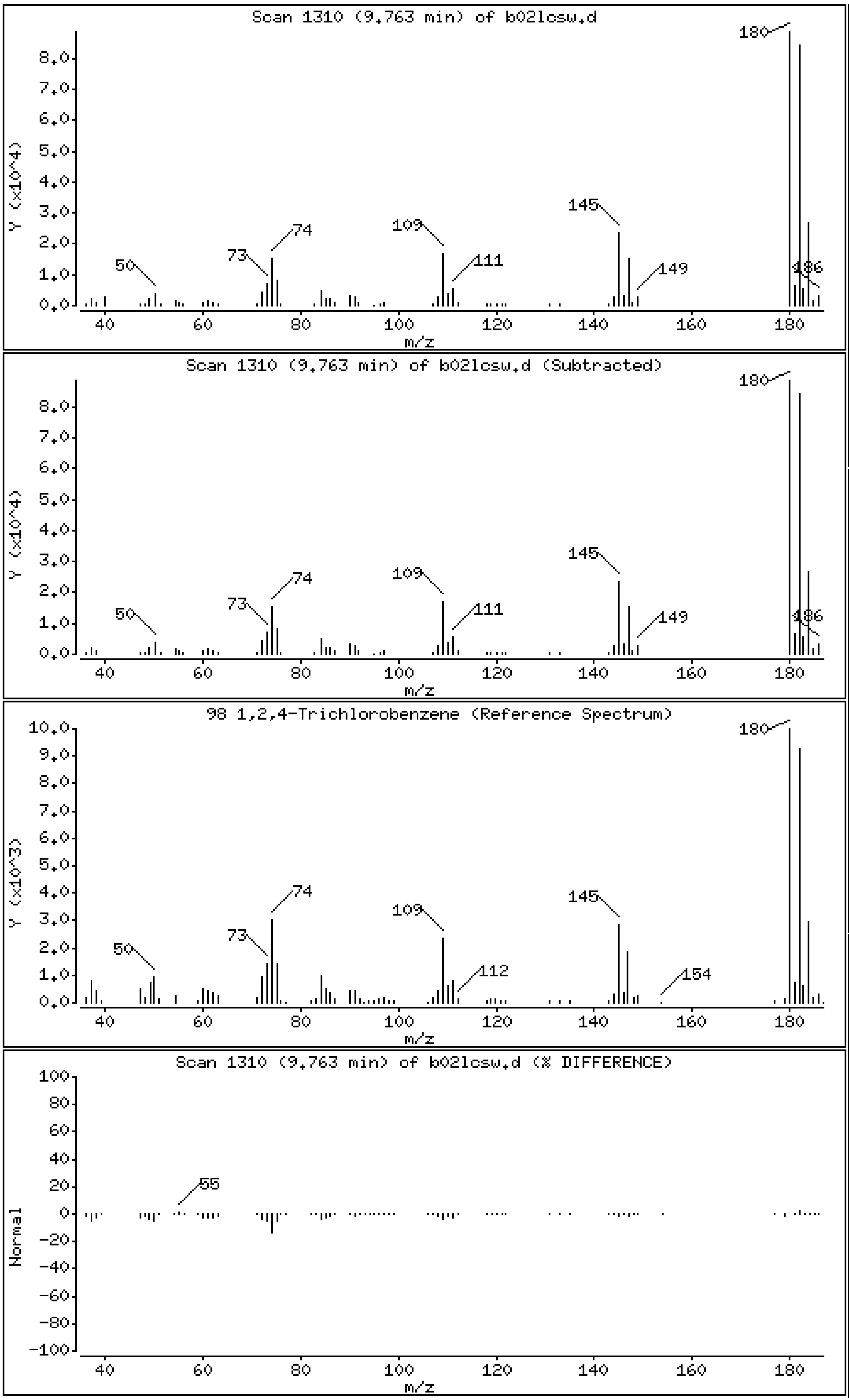
Client ID: Instrument: 50mvcb.i

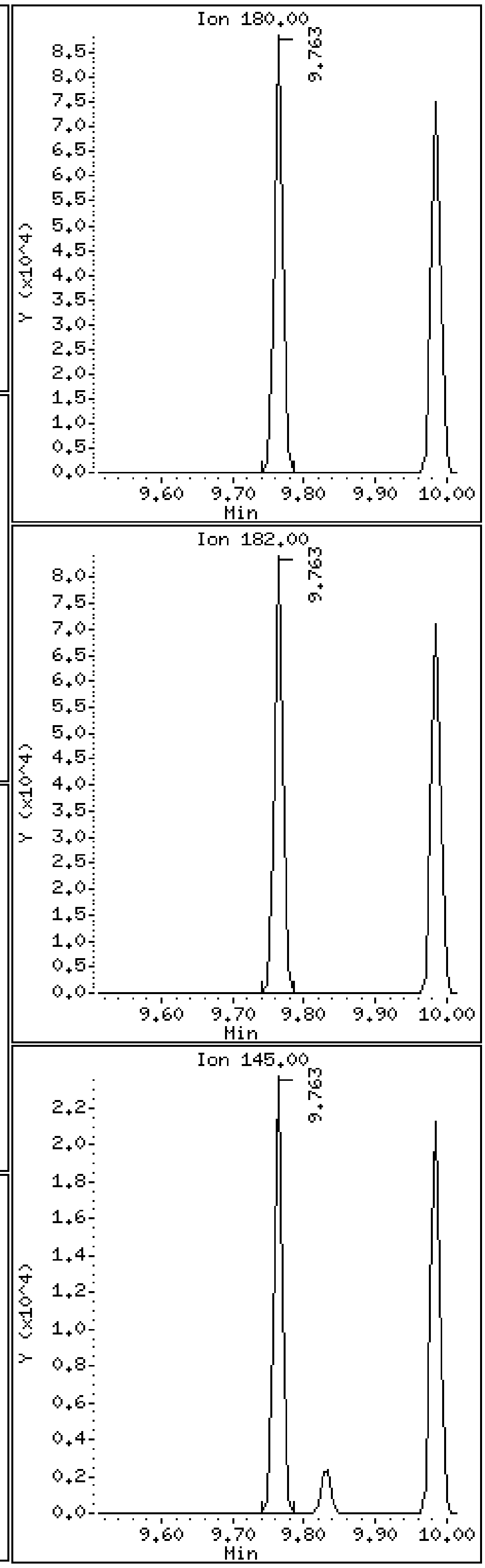
Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

98 1,2,4-Trichlorobenzene Concentration: 44.1 ppb Review Code:





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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

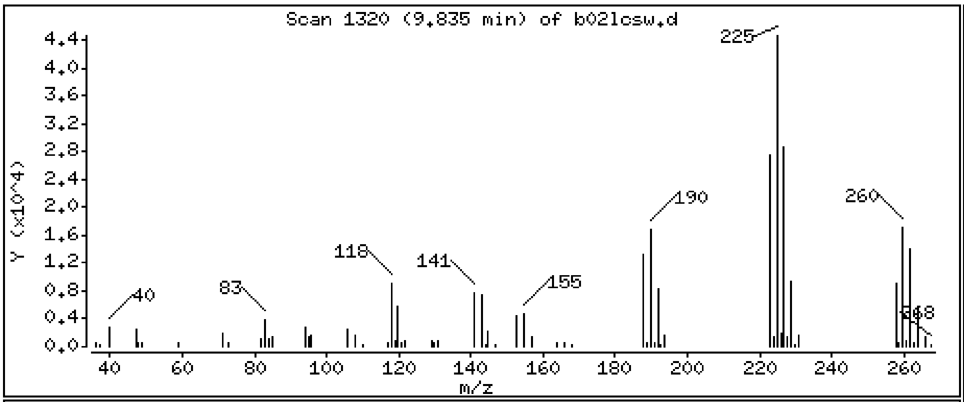
Column phase: DB-624

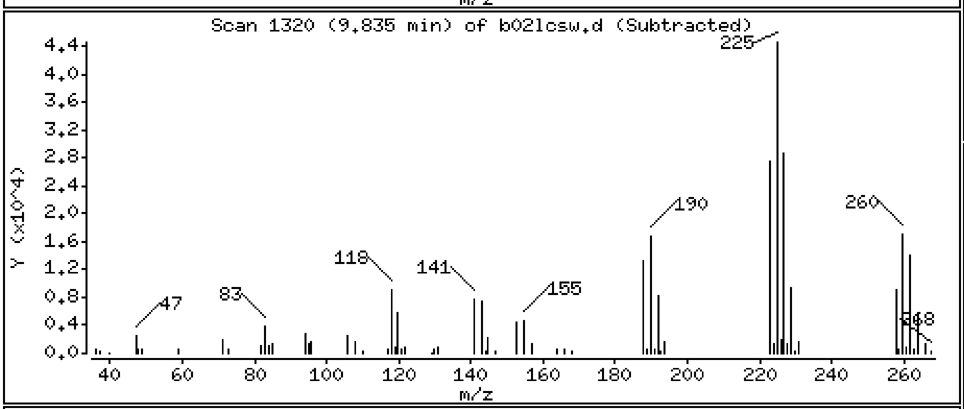
Column diameter: 0.18

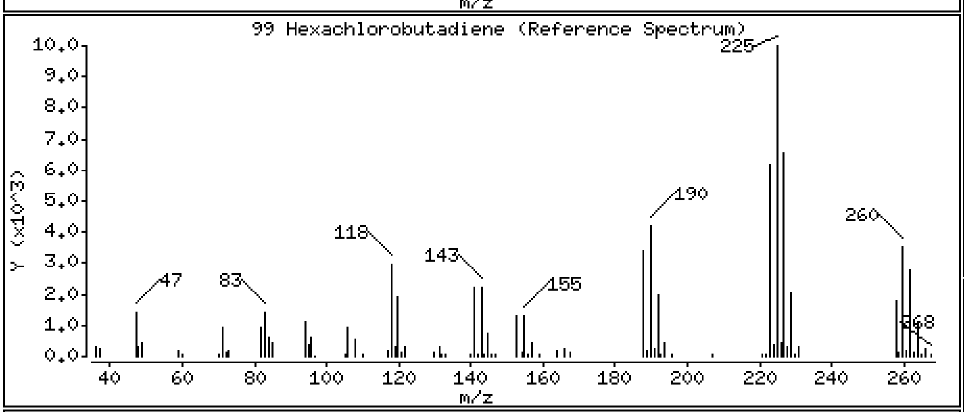
99 Hexachlorobutadiene

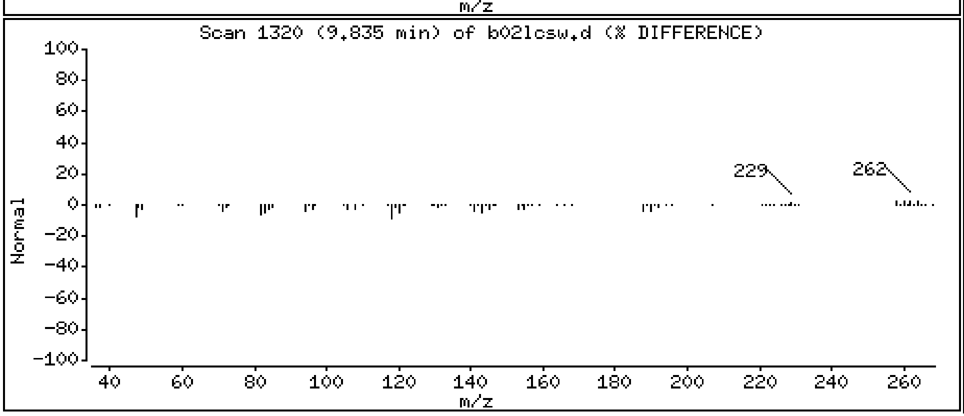
Concentration: 48.3 ppb

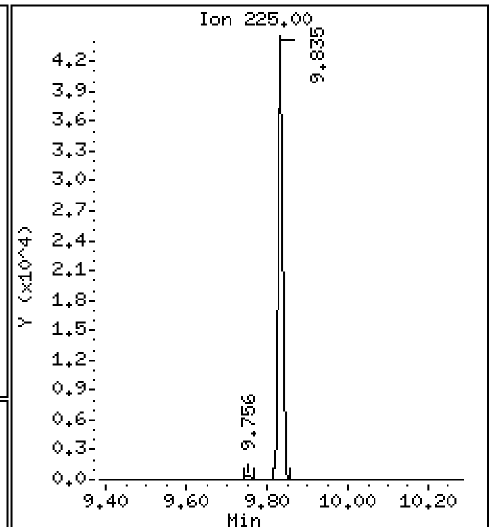
Review Code:

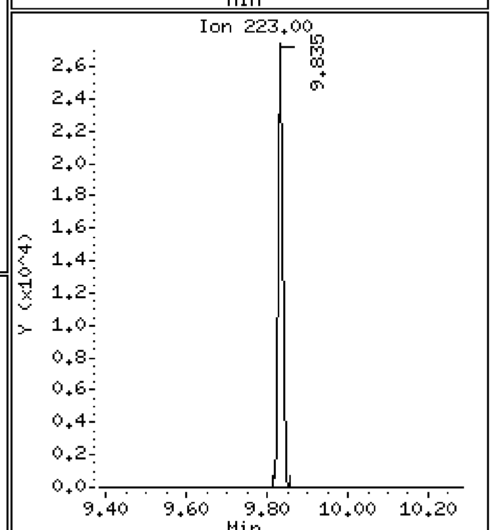


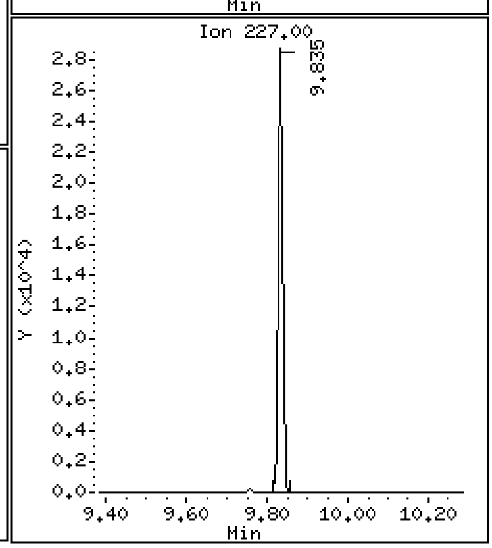












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

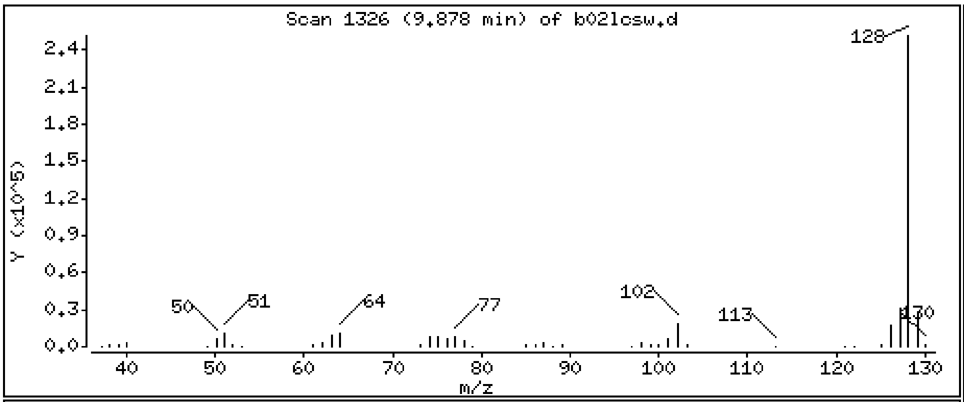
Column phase: DB-624

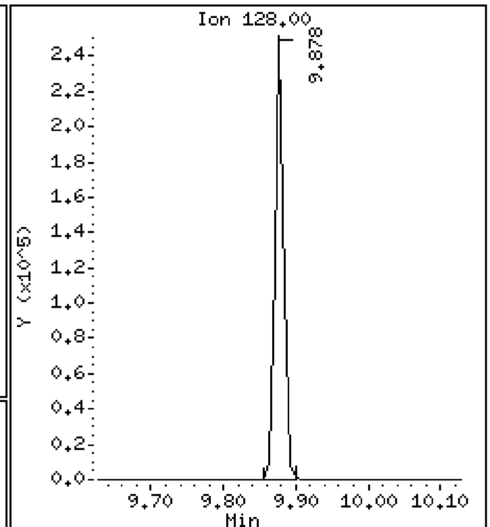
Column diameter: 0.18

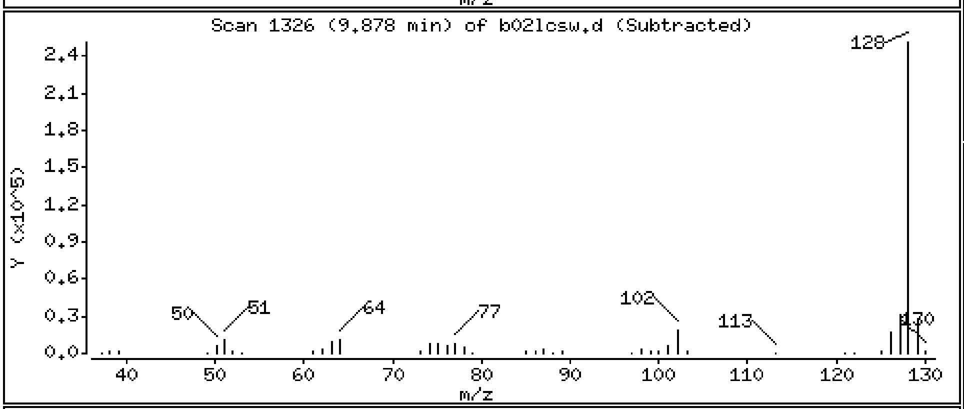
100 Naphthalene

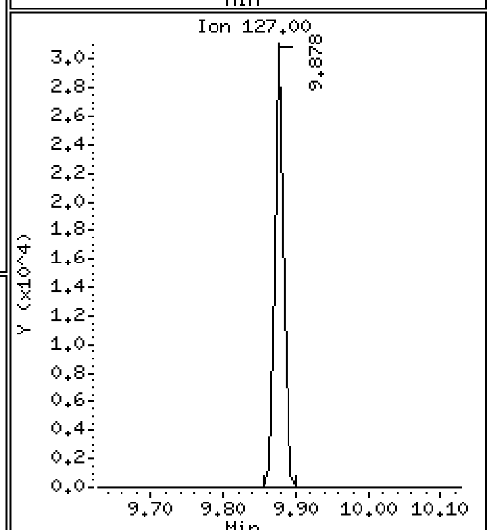
Concentration: 45.0 ppb

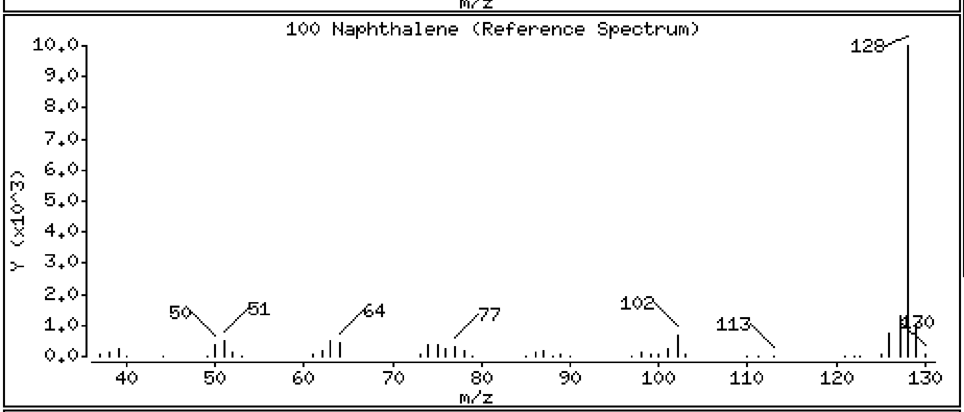
Review Code:

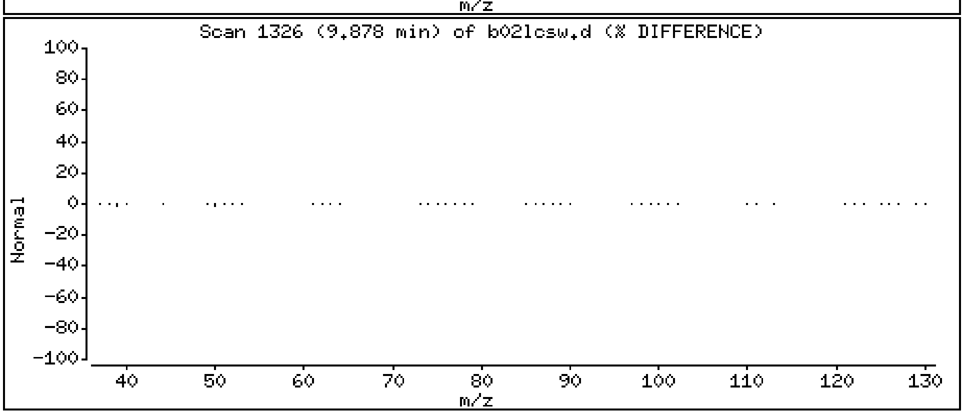












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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

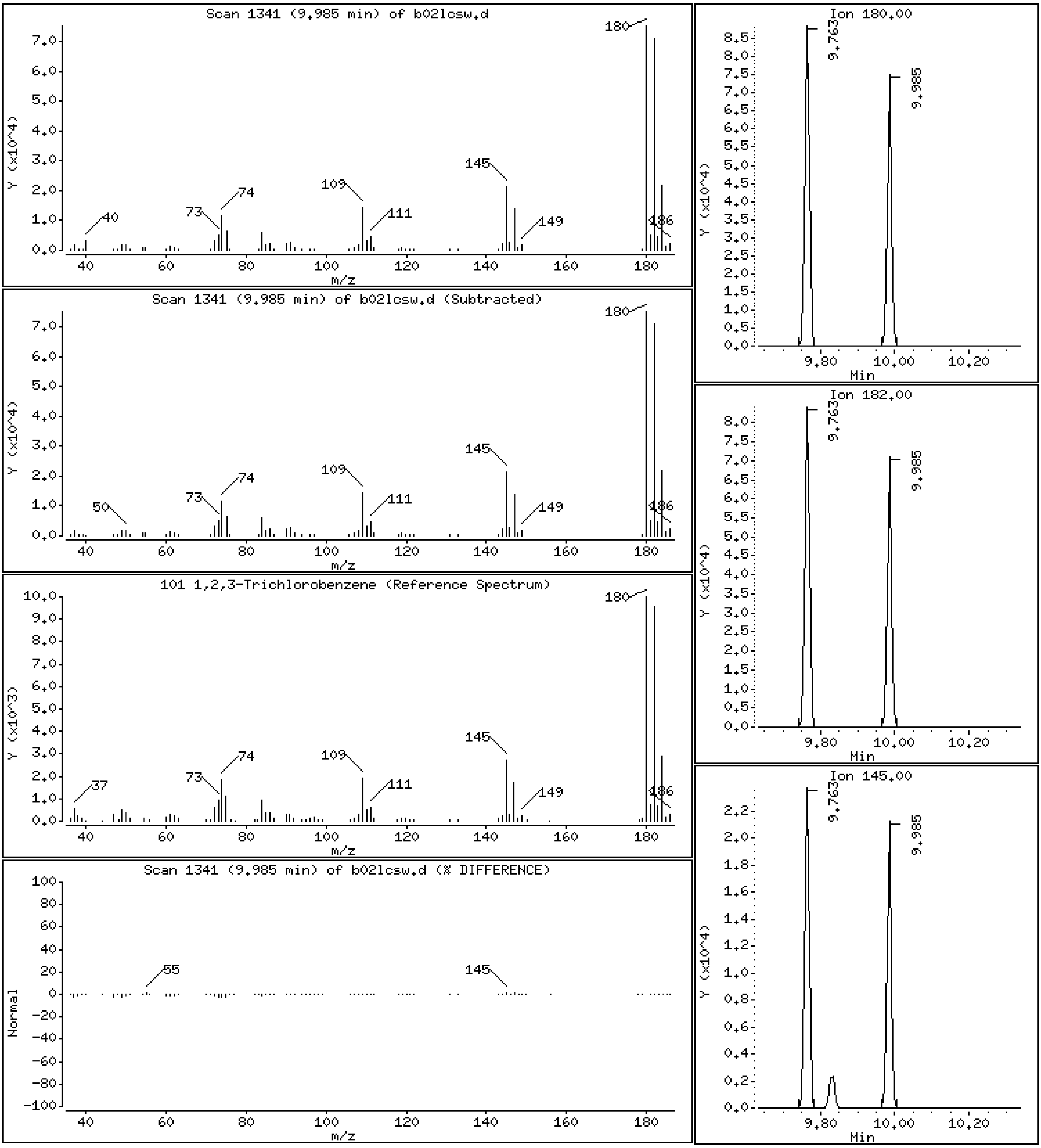
Column phase: DB-624

Column diameter: 0.18

101 1,2,3-Trichlorobenzene

Concentration: 47.8 ppb

Review Code:



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Date : 24-JAN-2023 13:31

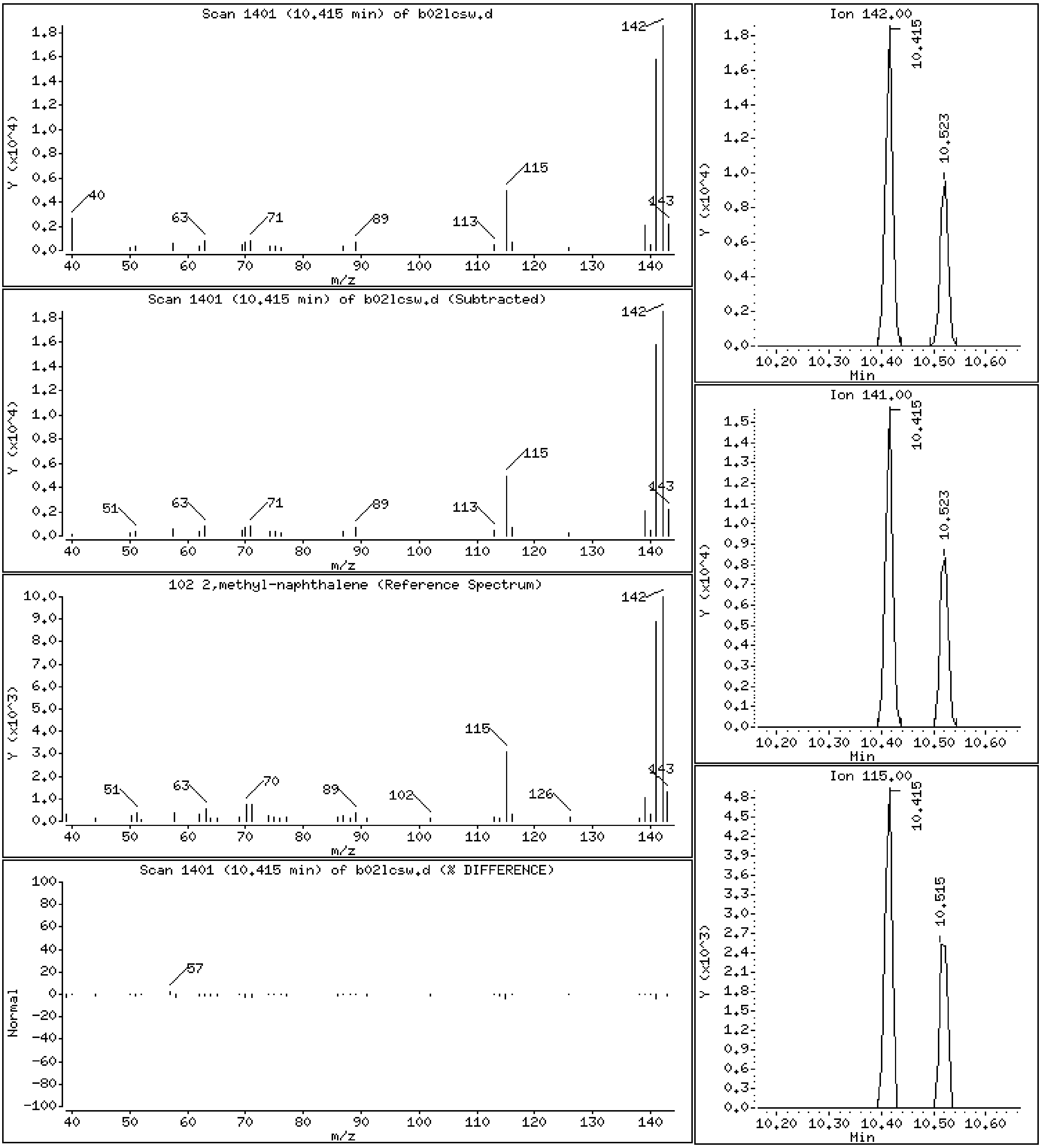
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

102 2,methyl-naphthalene Concentration: 51.7 ppb Review Code:



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Date : 24-JAN-2023 13:31

Client ID:

Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0

Operator: tkg

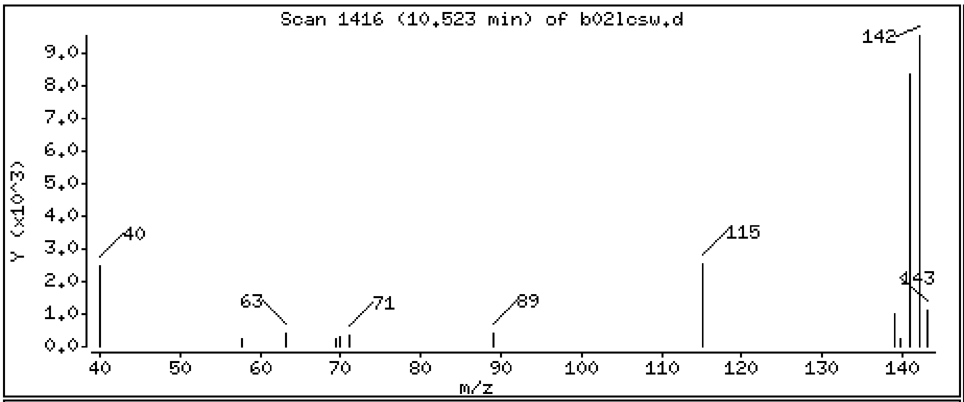
Column phase: DB-624

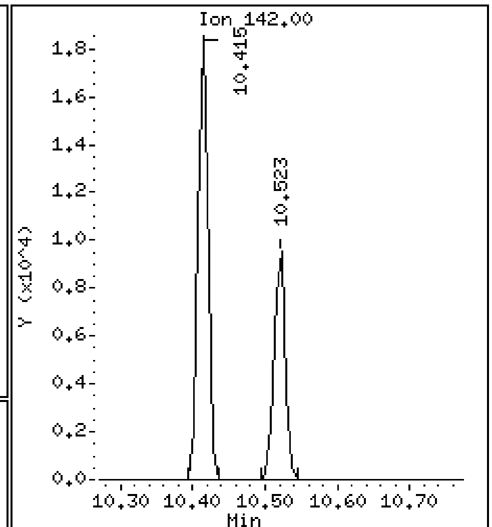
Column diameter: 0.18

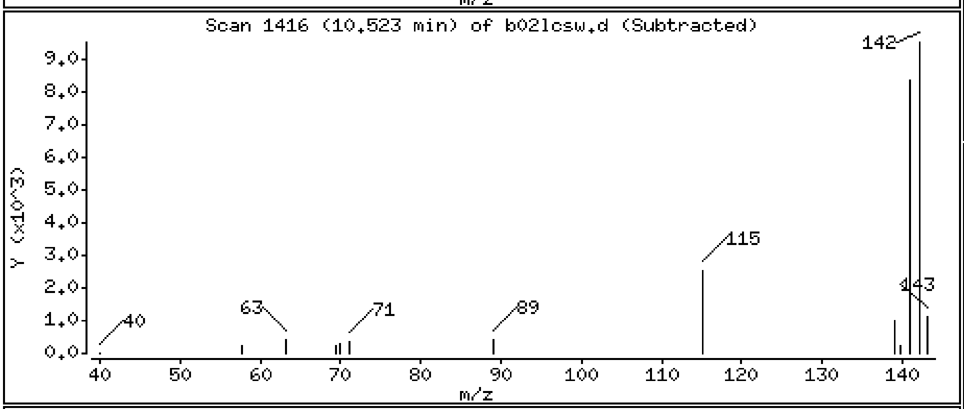
103 1-Methylnaphthalene

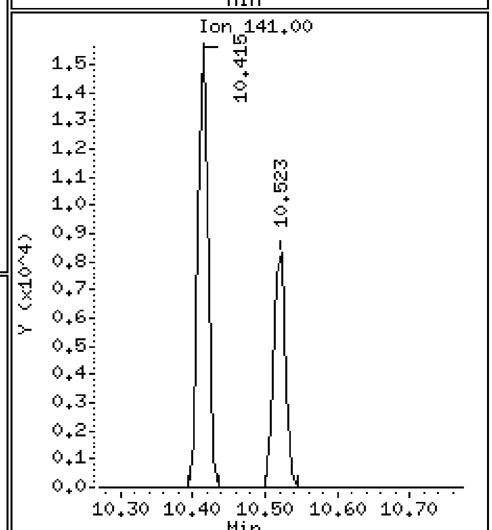
Concentration: 50.3 ppb

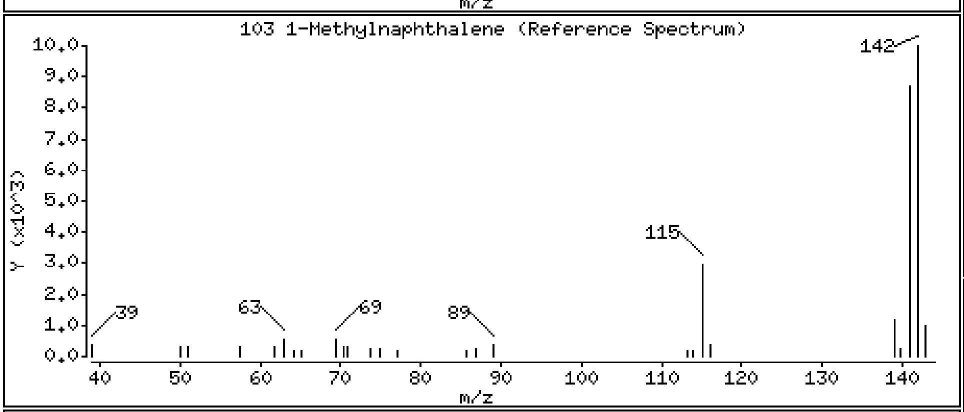
Review Code:

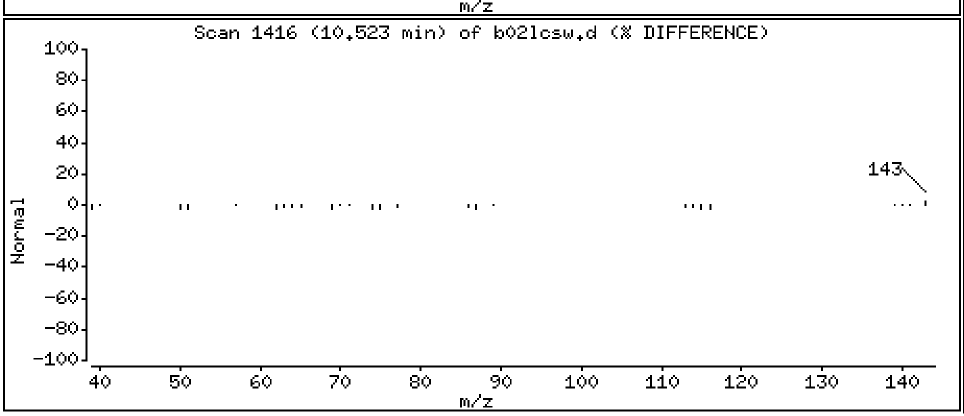


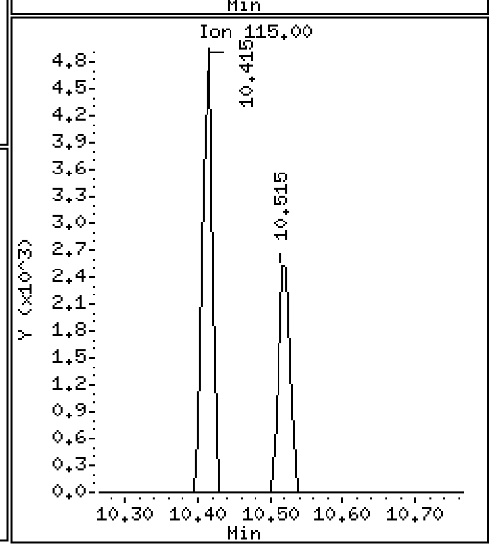












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Date : 24-JAN-2023 13:31

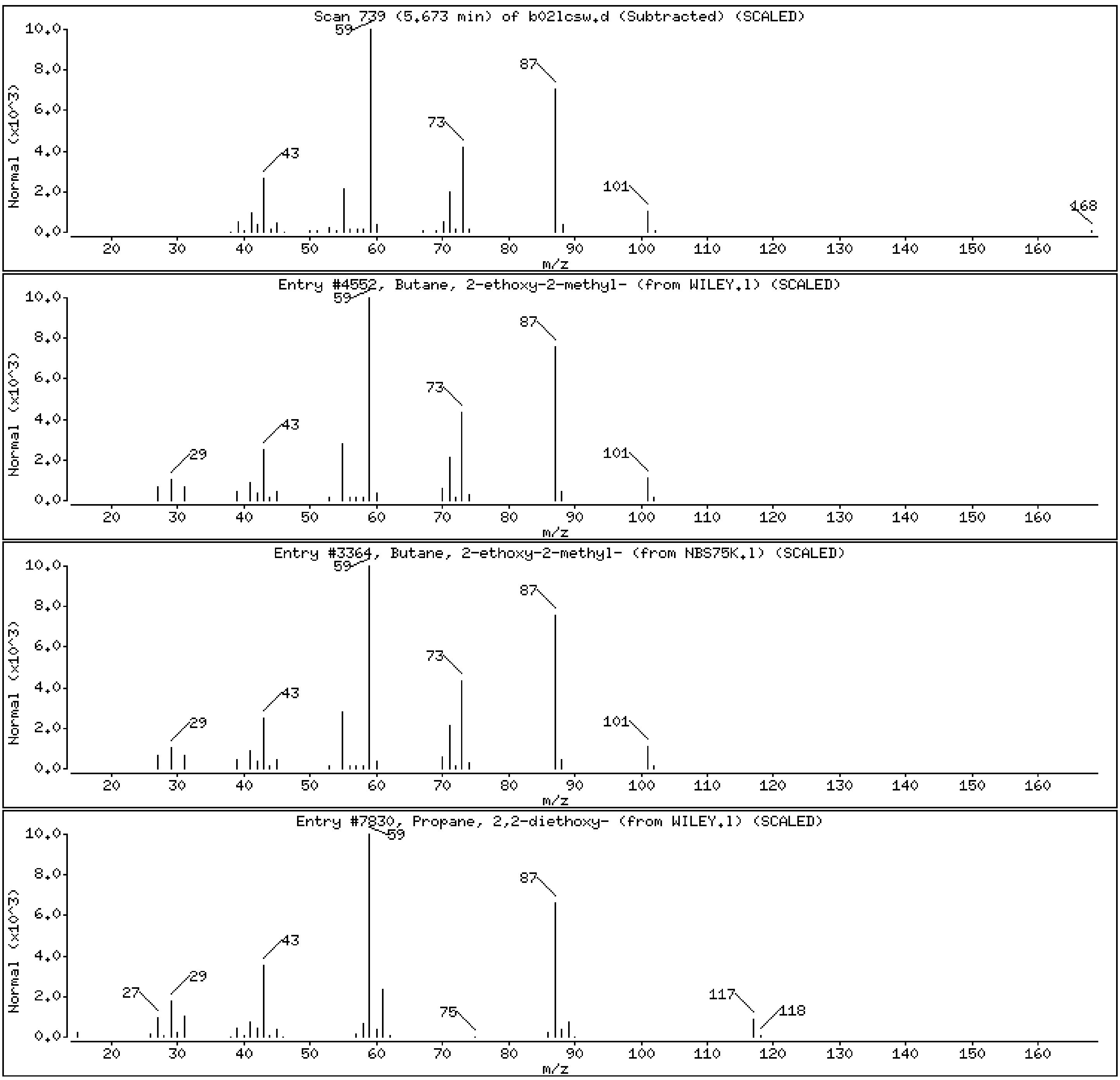
Client ID: Instrument: 50mvcb.i

Sample Info: 3288023,335755:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-ethoxy-2-methyl-	919-94-8	WILEY.l	4552	90	C7H16O	116
Butane, 2-ethoxy-2-methyl-	919-94-8	NBS75K.l	3364	90	C7H16O	116
Propane, 2,2-diethoxy-	126-84-1	WILEY.l	7830	53	C7H16O2	132



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Injection Date: 24-JAN-2023 13:31
Instrument: 50mvcb.i
Lab Sample ID: 3288023
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: LA2265-LA2270
Date Received:
Matrix: Water SDG No.: 50335726
Date Extracted: 01/27/2023 12:33
Lab Sample ID: 3289828
Date Analyzed: 01/27/2023 12:33
Lab File ID: A012723.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

02/02/2023 7:02

SAMPLE NO.

BLANK

MSV - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana
Contract: LA2265-LA2270
Date Received:
Matrix: Water SDG No.: 50335726
Date Extracted: 01/27/2023 12:33
Lab Sample ID: 3289828
Date Analyzed: 01/27/2023 12:33
Lab File ID: A012723.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
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

02/02/2023 7:02

Report Date: 31-Jan-2023 08:58

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012723.b\a04mb.d
Lab Smp Id: 3289828
Inj Date : 27-JAN-2023 12:33
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 3289828
Misc Info : 166289
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012723.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:23 50mv2a.i Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 6 QC Sample: BLANK
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	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Trichlorofluoromethane	101	Compound Not Detected.						
7 Diethyl ether	74	Compound Not Detected.						
8 Acrolein	56	Compound Not Detected.						
9 1,1,2trichlorotrifluoroethane	101	Compound Not Detected.						
10 1,1-Dichloroethene	96	Compound Not Detected.						
11 Acetone	43	Compound Not Detected.						
12 Iodomethane	142	Compound Not Detected.						
13 Carbon Disulfide	76	Compound Not Detected.						
14 Acetonitrile	39	Compound Not Detected.						
15 allyl chloride	41	Compound Not Detected.						
16 Methyl Acetate	43	Compound Not Detected.						
17 Methylene Chloride	84	2.005	2.005	(0.455)	517	0.50157	0.502(Q)	
18 tert-Butyl Alcohol	59	Compound Not Detected.						
19 Acrylonitrile	53	Compound Not Detected.						
20 Methyl-tert-butyl ether	73	Compound Not Detected.						
21 1,2-Dichloroethene (trans)	96	Compound Not Detected.						
22 n-Hexane	57	Compound Not Detected.						
23 1,1-Dichloroethane	63	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	=========================	====	====	========	========	========	=======	=======	========
	24 Vinyl Acetate	43	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 chloroprene	53	Compound Not Detected.						
	27 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	28 1,2-Dichloroethene (cis)	96	Compound Not Detected.						
	29 2,2-Dichloropropane	77	Compound Not Detected.						
	30 2-Butanone	43	Compound Not Detected.						
	31 Propionitrile	54	Compound Not Detected.						
	32 Ethyl Acetate	88	Compound Not Detected.						
	33 Methacrylonitrile	41	Compound Not Detected.						
	34 Bromochloromethane	49	Compound Not Detected.						
	35 Tetrahydrofuran	42	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
$	37 Dibromofluoromethane (S)	113	3.552	3.553	(0.806)	55061	50.8676	50.9	
	38 1,1,1-Trichloroethane	97	Compound Not Detected.						
	39 Cyclohexane	56	Compound Not Detected.						
	40 Carbon Tetrachloride	117	Compound Not Detected.						
	41 1,1-Dichloropropene	75	Compound Not Detected.						
	42 Isobutyl alcohol	43	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 1,2-Dichloroethane	62	Compound Not Detected.						
	45 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	46 tert-Amylmethyl ether	73	Compound Not Detected.						
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	199789	50.0000	(Q)	
	48 Trichloroethene	95	Compound Not Detected.						
	49 Methylcyclohexane	55	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Dibromomethane	93	Compound Not Detected.						
	52 1,4-Dioxane	88	Compound Not Detected.						
	53 Methyl methacrylate	69	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 2-Chloroethyl vinyl ether	63	Compound Not Detected.						
	56 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	57 4-Methyl-2-Pentanone	43	Compound Not Detected.						
$	58 Toluene-d8	98	6.131	6.131	(0.839)	196680	49.4317	49.4	
	59 Toluene	91	Compound Not Detected.						
	60 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	61 Ethyl Methacrylate	69	Compound Not Detected.						
	62 1,1,2-Trichloroethane	83	Compound Not Detected.						
	63 Tetrachloroethene	166	Compound Not Detected.						
	64 1,3-Dichloropropane	76	Compound Not Detected.						
	65 2-Hexanone	43	Compound Not Detected.						
	66 Dibromochloromethane	129	Compound Not Detected.						
	67 1,2-Dibromoethane	107	Compound Not Detected.						
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	156526	50.0000		
	69 Chlorobenzene	112	Compound Not Detected.						
	70 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	71 Ethylbenzene	106	Compound Not Detected.						
	72 m&p-Xylene	106	Compound Not Detected.						
	73 o-Xylene	106	Compound Not Detected.						
	74 Styrene	104	Compound Not Detected.						
	75 Bromoform	173	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	75314	49.7815	49.8	
	78 Bromobenzene	77	Compound Not Detected.						

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	Compound Not Detected.						
80 1,2,3-Trichloropropane	110	Compound Not Detected.						
81 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
82 n-Propylbenzene	91	Compound Not Detected.						
83 2-Chlorotoluene	91	Compound Not Detected.						
84 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
85 4-Chlorotoluene	126	Compound Not Detected.						
86 tert-Butylbenzene	119	Compound Not Detected.						
87 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
88 sec-Butylbenzene	105	Compound Not Detected.						
89 1,3-Dichlorobenzene	146	Compound Not Detected.						
90 p-Isopropyltoluene	119	Compound Not Detected.						
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	83448	50.0000		
92 1,4-Dichlorobenzene	146	Compound Not Detected.						
93 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
94 n-Butylbenzene	91	Compound Not Detected.						
95 1,2-Dichlorobenzene	146	Compound Not Detected.						
96 Hexachloroethane	201	Compound Not Detected.						
97 1,2-Dibromo-3-chloropropane	155	Compound Not Detected.						
98 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
99 Hexachlorobutadiene	225	Compound Not Detected.						
100 Naphthalene	128	Compound Not Detected.						
101 1,2,3-Trichlorobenzene	180	Compound Not Detected.						
102 2,methyl-naphthalene	142	10.121	10.128	(1.176)	735	0.64760	0.648(QM)	WP
103 1-Methylnaphthalene	142	10.221	10.222	(1.187)	792	0.81569	0.816	

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\50mv2a.i\a012723.b\a04mb.d

Date : 27-JAN-2023 12:33

Client ID:

Instrument: 50mv2a.i

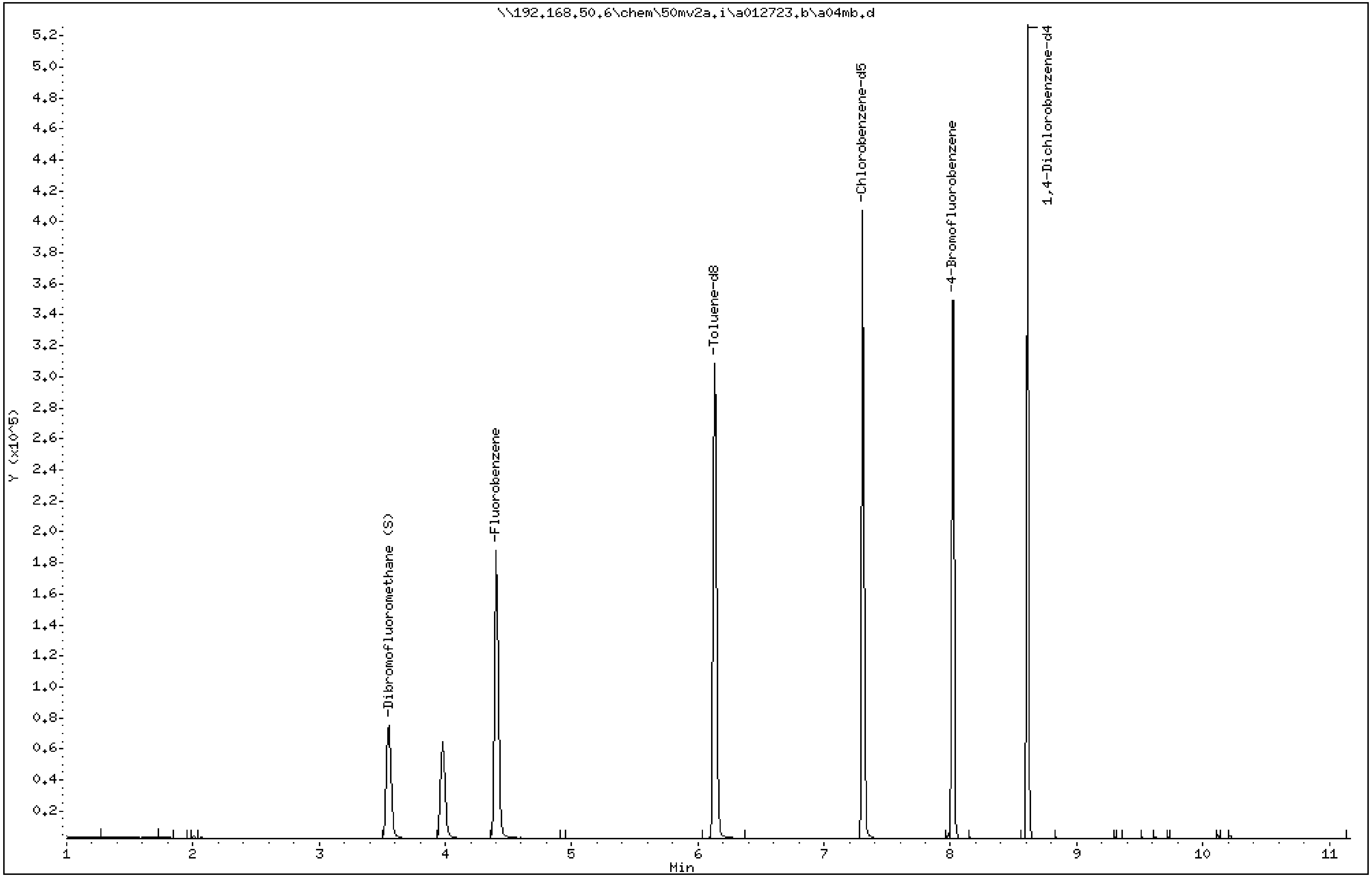
Sample Info: 3289828

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a04mb.d

Date : 27-JAN-2023 12:33

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289828

Purge Volume: 5.0

Operator: tkg

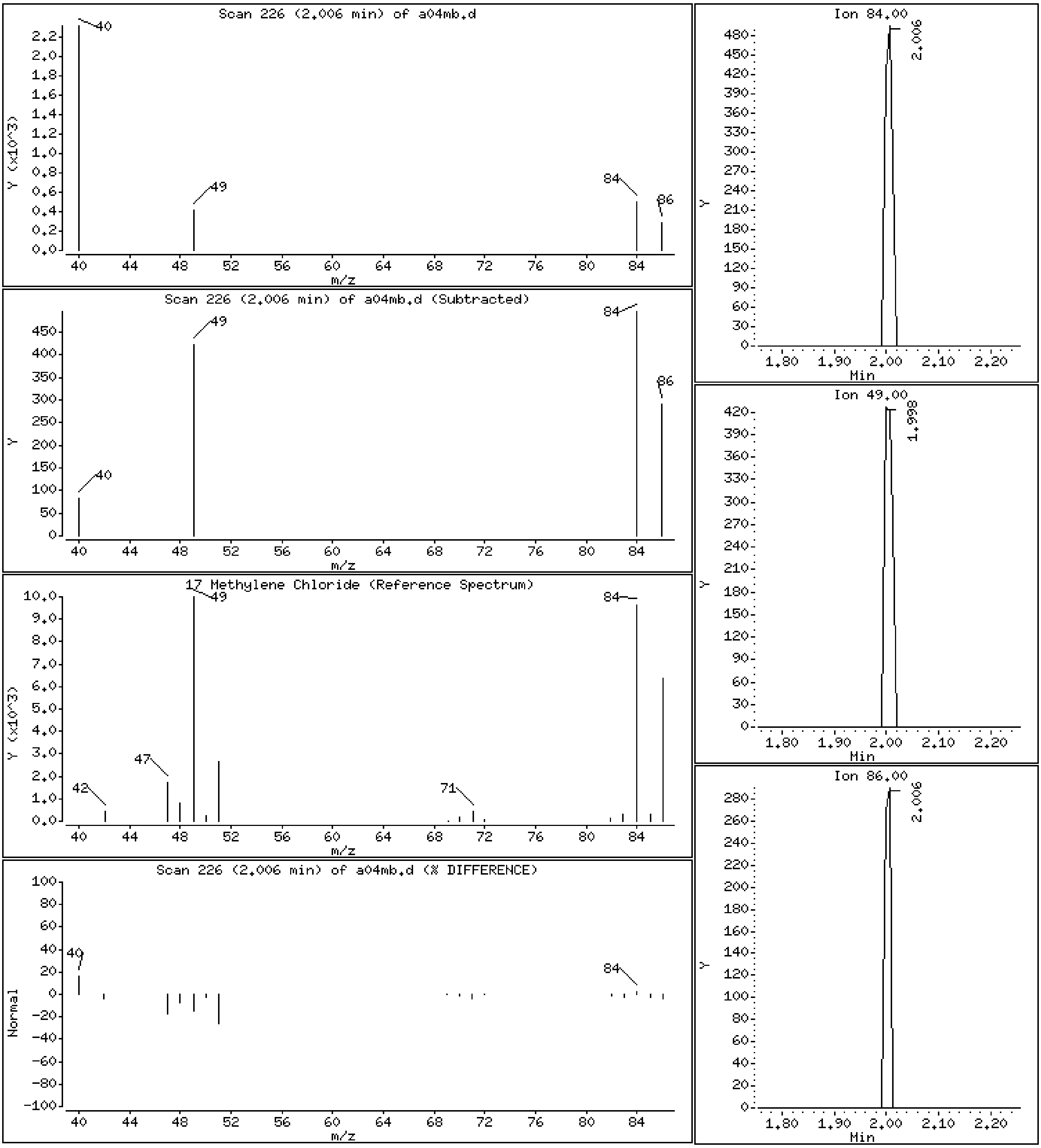
Column phase: DB-624

Column diameter: 0.18

17 Methylene Chloride

Concentration: 0.502 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a04mb.d Page 6

Date : 27-JAN-2023 12:33

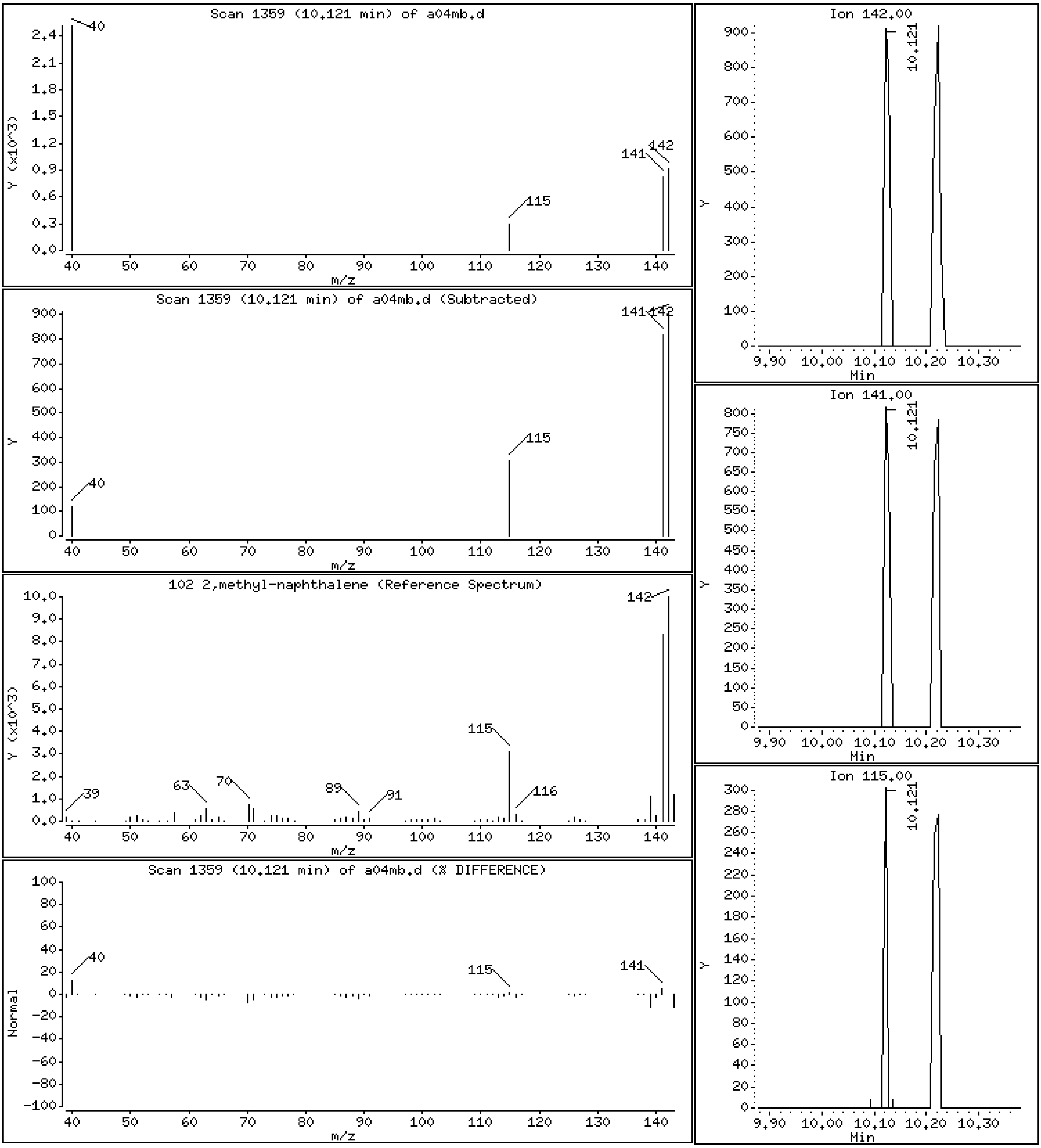
Client ID: Instrument: 50mv2a.i

Sample Info: 3289828

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

102 2,methyl-naphthalene Concentration: 0.648 ppb Review Code: WP



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Date : 27-JAN-2023 12:33

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289828

Purge Volume: 5.0

Operator: tkg

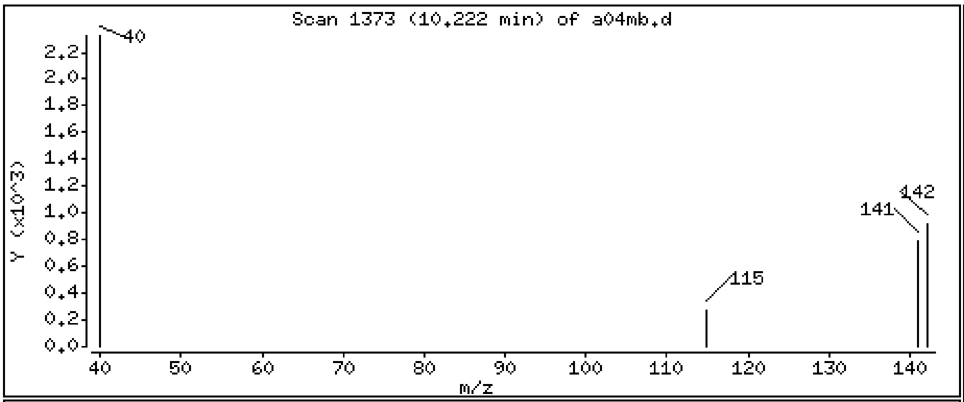
Column phase: DB-624

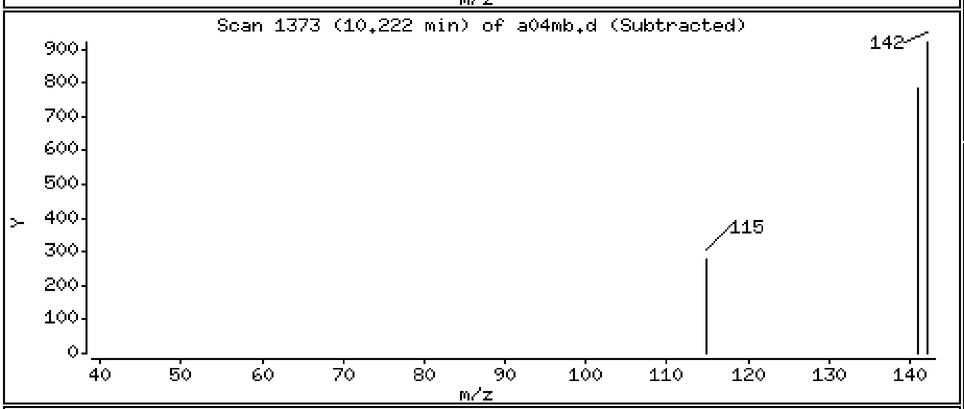
Column diameter: 0.18

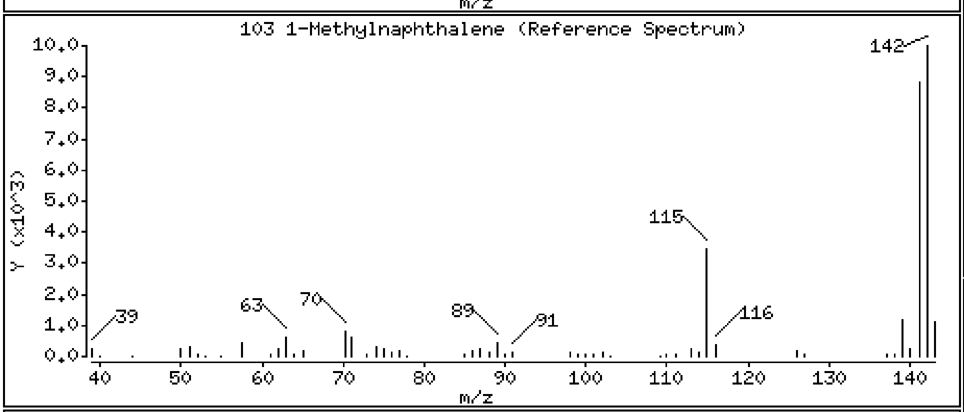
103 1-Methylnaphthalene

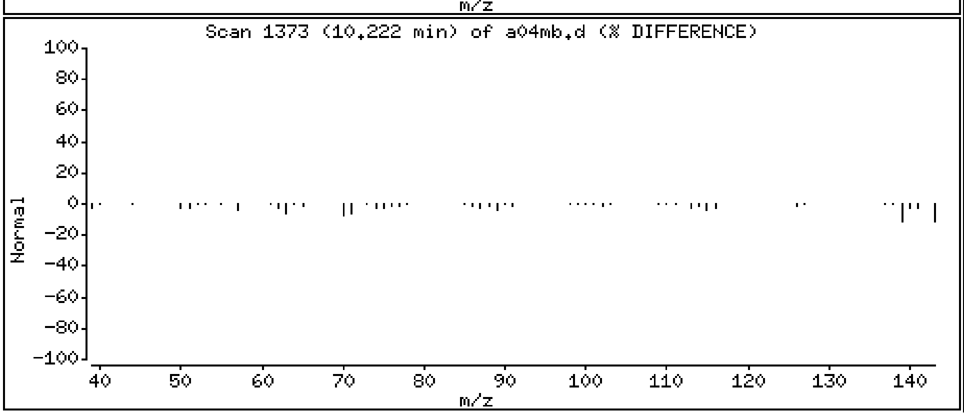
Concentration: 0.816 ppb

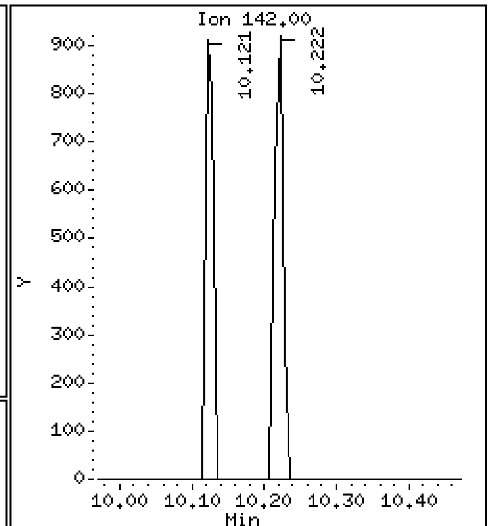
Review Code:

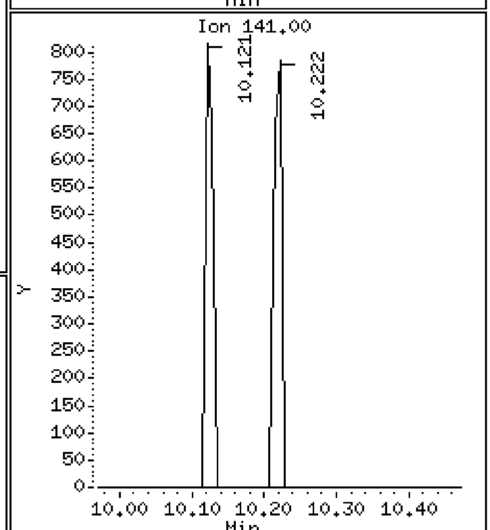


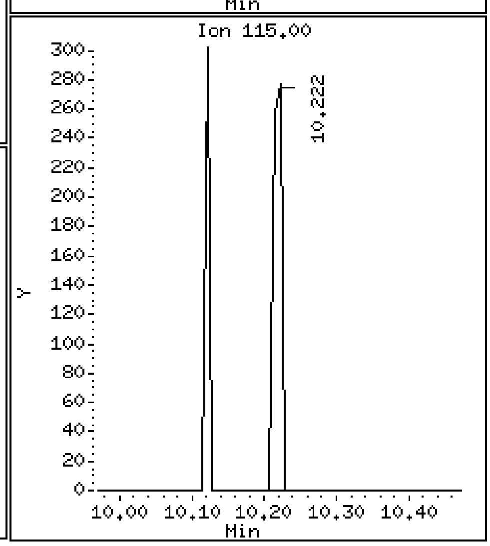












Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a04mb.d

Date : 27-JAN-2023 12:33

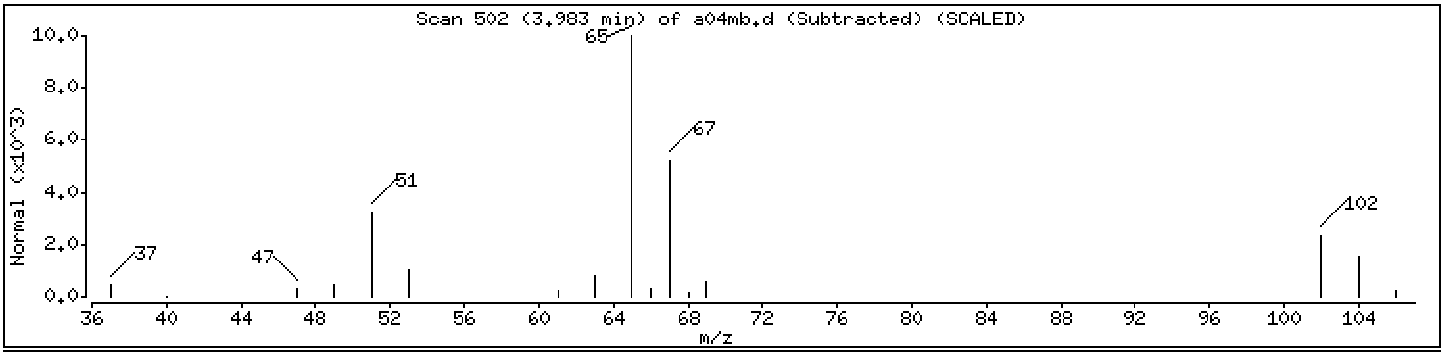
Client ID: Instrument: 50mv2a.i

Sample Info: 3289828

Purge Volume: 5.0 Operator: tkg

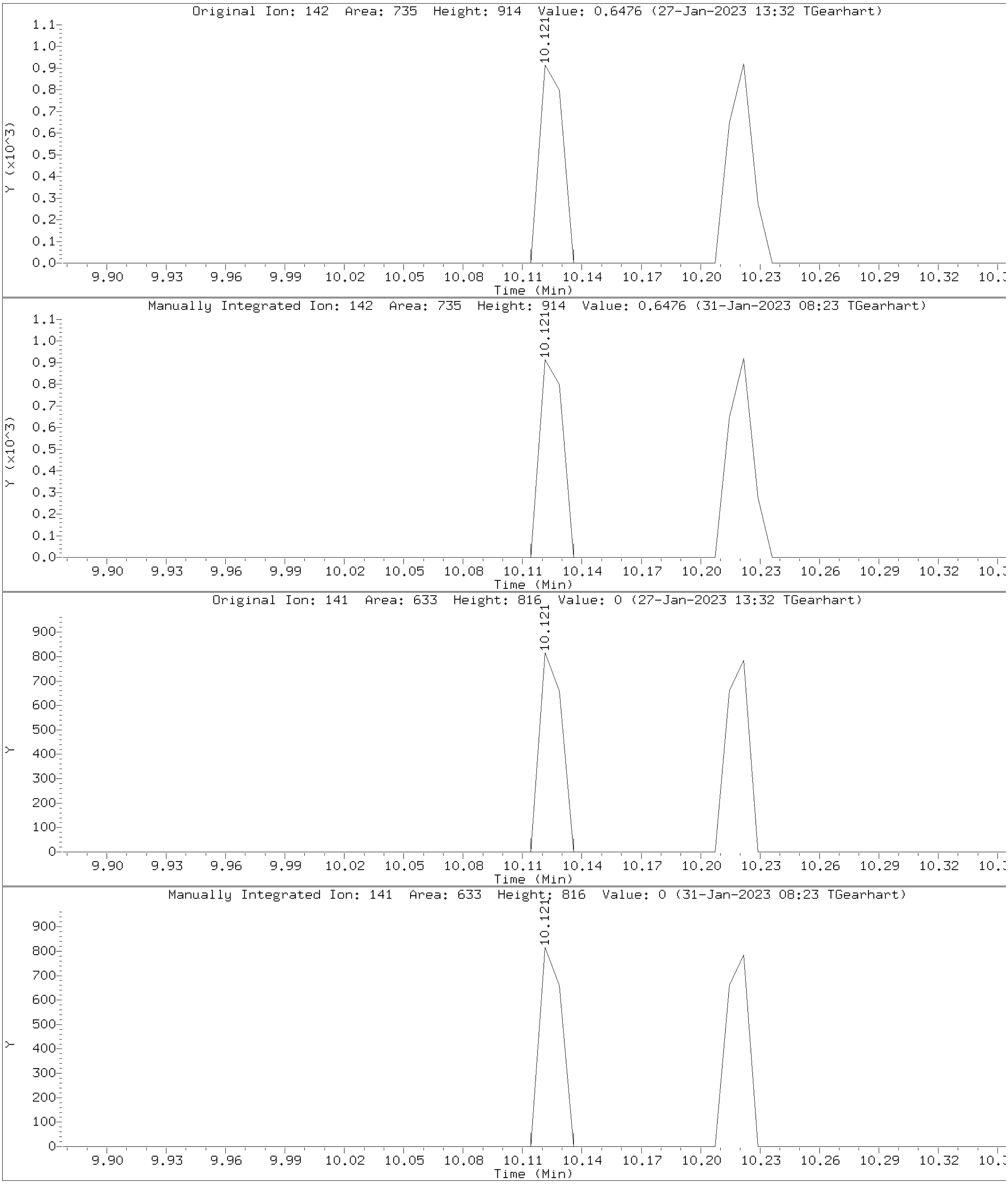
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

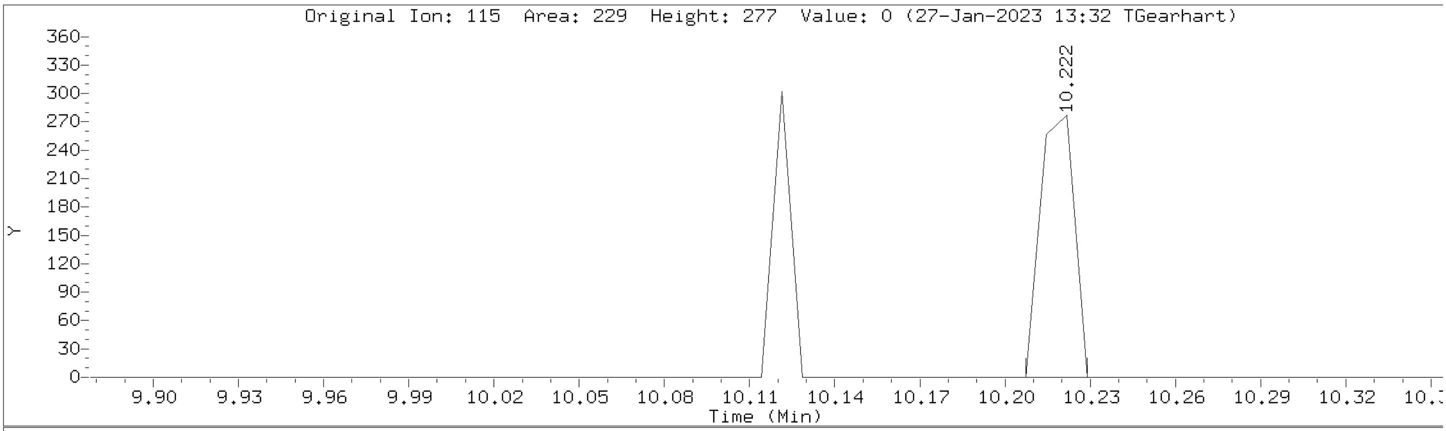


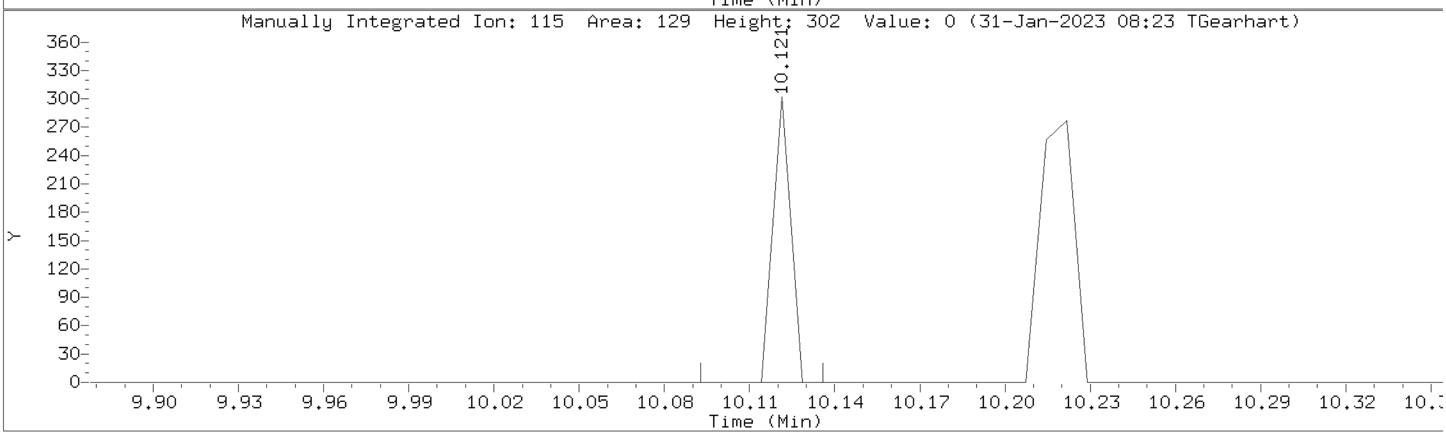
Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a04mb.d
Injection Date: 27-JAN-2023 12:33
Instrument: 50mv2a.i
Lab Sample ID: 3289828

Compound: 2,methyl-naphthalene Review Code: WP
CAS Number:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a04mb.d
Injection Date: 27-JAN-2023 12:33
Instrument: 50mv2a.i
Lab Sample ID: 3289828





SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana | Contract: LA2265-LA2270

Date Received: | Matrix: Water | SDG No.: 50335726

Date Extracted: 01/27/2023 11:35 | Lab Sample ID: 3289829

Date Analyzed: 01/27/2023 11:35 | Lab File ID: A012723.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	213	
107-02-8	Acrolein	1020	
107-13-1	Acrylonitrile	258	
71-43-2	Benzene	49.6	
108-86-1	Bromobenzene	46.4	
74-97-5	Bromochloromethane	49.8	
75-27-4	Bromodichloromethane	56.1	
75-25-2	Bromoform	45.8	
74-83-9	Bromomethane	29.3	
78-93-3	2-Butanone (MEK)	251	
104-51-8	n-Butylbenzene	49.5	
135-98-8	sec-Butylbenzene	49.5	
98-06-6	tert-Butylbenzene	45.9	
75-15-0	Carbon disulfide	47.8	
56-23-5	Carbon tetrachloride	53.9	
108-90-7	Chlorobenzene	49.3	
75-00-3	Chloroethane	44.8	
67-66-3	Chloroform	51.2	
74-87-3	Chloromethane	42.2	
95-49-8	2-Chlorotoluene	49.4	
106-43-4	4-Chlorotoluene	50.7	
124-48-1	Dibromochloromethane	54.6	
106-93-4	1,2-Dibromoethane (EDB)	54.2	
74-95-3	Dibromomethane	54.3	
95-50-1	1,2-Dichlorobenzene	49.3	
541-73-1	1,3-Dichlorobenzene	49.1	
106-46-7	1,4-Dichlorobenzene	50.6	
110-57-6	trans-1,4-Dichloro-2-butene	53.4	
75-71-8	Dichlorodifluoromethane	23.3	
75-34-3	1,1-Dichloroethane	52.1	
107-06-2	1,2-Dichloroethane	50.2	
75-35-4	1,1-Dichloroethene	51.3	
156-59-2	cis-1,2-Dichloroethene	52.3	
156-60-5	trans-1,2-Dichloroethene	51.9	
78-87-5	1,2-Dichloropropane	50.6	
142-28-9	1,3-Dichloropropane	49.8	
594-20-7	2,2-Dichloropropane	58.2	

02/02/2023 7:02

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS

Lab Name: Pace Analytical - Indiana | Contract: LA2265-LA2270

Date Received: | Matrix: Water | SDG No.: 50335726

Date Extracted: 01/27/2023 11:35 | Lab Sample ID: 3289829

Date Analyzed: 01/27/2023 11:35 | Lab File ID: A012723.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	55.5	
10061-01-5	cis-1,3-Dichloropropene	54.5	
10061-02-6	trans-1,3-Dichloropropene	53.9	
100-41-4	Ethylbenzene	50.2	
97-63-2	Ethyl methacrylate	52.6	
87-68-3	Hexachloro-1,3-butadiene	51.4	
110-54-3	n-Hexane	48.5	
591-78-6	2-Hexanone	248	
74-88-4	Iodomethane	52.0	
98-82-8	Isopropylbenzene (Cumene)	49.5	
99-87-6	p-Isopropyltoluene	50.3	
75-09-2	Methylene Chloride	43.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	231	
1634-04-4	Methyl-tert-butyl ether	52.7	
91-20-3	Naphthalene	52.9	
103-65-1	n-Propylbenzene	49.3	
100-42-5	Styrene	50.9	
630-20-6	1,1,1,2-Tetrachloroethane	53.4	
79-34-5	1,1,2,2-Tetrachloroethane	52.5	
127-18-4	Tetrachloroethene	51.5	
108-88-3	Toluene	48.8	
87-61-6	1,2,3-Trichlorobenzene	52.5	
120-82-1	1,2,4-Trichlorobenzene	48.9	
71-55-6	1,1,1-Trichloroethane	54.3	
79-00-5	1,1,2-Trichloroethane	51.2	
79-01-6	Trichloroethene	52.4	
75-69-4	Trichlorofluoromethane	47.9	
96-18-4	1,2,3-Trichloropropane	51.3	
95-63-6	1,2,4-Trimethylbenzene	48.9	
108-67-8	1,3,5-Trimethylbenzene	49.4	
108-05-4	Vinyl acetate	219	
75-01-4	Vinyl chloride	26.9	
1330-20-7	Xylene (Total)	150	

02/02/2023 7:02

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv2a.i\a012723.b\a02lcs.d
Lab Smp Id: 3289829
Inj Date : 27-JAN-2023 11:35
Operator : tkg Inst ID: 50mv2a.i
Smp Info : 3289829,336609:5
Misc Info : 166289
Comment :
Method : \\192.168.50.6\chem\50mv2a.i\a012723.b\-a8260_a_c.m
Meth Date : 31-Jan-2023 08:23 50mv2a.i Quant Type: ISTD
Cal Date : 24-JAN-2023 15:19 Cal File: a07cal3.d
Als bottle: 4 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)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.974	0.974	(0.221)	23695	23.2990	23.3	
2 Chloromethane	50	1.131	1.132	(0.257)	31074	42.1742	42.2	
3 Vinyl Chloride	62	1.117	1.117	(0.254)	26124	26.9210	26.9(Q)	
4 Bromomethane	94	1.332	1.275	(0.302)	17956	29.2895	29.3	
5 Chloroethane	64	1.318	1.325	(0.299)	26057	44.8493	44.8	
6 Trichlorofluoromethane	101	1.447	1.454	(0.328)	73506	47.8702	47.9	
7 Diethyl ether	74	1.590	1.590	(0.361)	27989	52.1409	52.1	
8 Acrolein	56	1.654	1.662	(0.376)	193702	1015.46	1020	
9 1,1,2trichlorotrifluoroethane	101	1.719	1.719	(0.390)	48711	50.6176	50.6	
10 1,1-Dichloroethene	96	1.726	1.726	(0.392)	42466	51.2951	51.3	
11 Acetone	43	1.740	1.740	(0.395)	68081	213.043	213	
12 Iodomethane	142	1.812	1.819	(0.411)	75097	52.0065	52.0	
13 Carbon Disulfide	76	1.862	1.862	(0.423)	105686	47.7840	47.8	
14 Acetonitrile	39	1.926	1.927	(0.437)	35038	230.748	231(Q)	
15 allyl chloride	41	1.926	1.927	(0.437)	60596	45.9526	46.0	
16 Methyl Acetate	43	1.934	1.934	(0.439)	173101	228.696	229	
17 Methylene Chloride	84	2.005	2.005	(0.455)	46187	43.6432	43.6	
18 tert-Butyl Alcohol	59	2.063	2.063	(0.468)	29221	254.763	255	
19 Acrylonitrile	53	2.156	2.156	(0.489)	95421	257.518	258	
20 Methyl-tert-butyl ether	73	2.192	2.192	(0.498)	143028	52.6829	52.7	
21 1,2-Dichloroethene (trans)	96	2.192	2.192	(0.498)	49159	51.9031	51.9	
22 n-Hexane	57	2.392	2.392	(0.543)	58130	48.4654	48.5	
23 1,1-Dichloroethane	63	2.500	2.500	(0.567)	77164	52.0673	52.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.535	2.536	(0.576)	419508	219.072	219(R)	
	25 Diisopropyl ether	45	2.557	2.557	(0.580)	119618	49.6920	49.7	
	26 chloroprene	53	2.578	2.579	(0.585)	65892	51.5968	51.6	
	27 Ethyl-tert-butyl ether	59	2.886	2.887	(0.655)	134577	52.2041	52.2	
	28 1,2-Dichloroethene (cis)	96	3.022	3.023	(0.686)	55056	52.2695	52.3	
	29 2,2-Dichloropropane	77	3.022	3.030	(0.686)	74984	58.2369	58.2	
	30 2-Butanone	43	3.037	3.037	(0.689)	111415	250.677	251	
	31 Propionitrile	54	3.094	3.094	(0.702)	34237	290.752	291	
	32 Ethyl Acetate	88	3.108	3.109	(0.706)	16072	262.827	263	
	33 Methacrylonitrile	41	3.259	3.259	(0.740)	142416	265.863	266	
	34 Bromochloromethane	49	3.273	3.273	(0.743)	29858	49.8374	49.8	
	35 Tetrahydrofuran	42	3.330	3.331	(0.756)	84190	266.826	267	
	36 Chloroform	83	3.366	3.366	(0.764)	88934	51.1905	51.2	
$	37 Dibromofluoromethane (S)	113	3.552	3.553	(0.806)	57361	51.6142	51.6	
	38 1,1,1-Trichloroethane	97	3.588	3.589	(0.815)	84203	54.3160	54.3	
	39 Cyclohexane	56	3.660	3.660	(0.831)	63796	47.6673	47.7	
	40 Carbon Tetrachloride	117	3.796	3.796	(0.862)	75058	53.9210	53.9	
	41 1,1-Dichloropropene	75	3.796	3.796	(0.862)	64287	55.4944	55.5	
	42 Isobutyl alcohol	43	3.989	3.990	(0.906)	8120	300.725	301	
	43 Benzene	78	4.054	4.054	(0.920)	184386	49.5750	49.6	
	44 1,2-Dichloroethane	62	4.075	4.076	(0.925)	64974	50.2230	50.2	
	45 2,2,4-Trimethylpentane	57	4.434	4.434	(1.007)	36494	48.1525	48.2	
	46 tert-Amylmethyl ether	73	4.226	4.226	(0.959)	136988	50.0449	50.0	
*	47 Fluorobenzene	96	4.405	4.405	(1.000)	205124	50.0000		
	48 Trichloroethene	95	4.835	4.835	(1.098)	53699	52.4042	52.4	
	49 Methylcyclohexane	55	5.050	5.050	(1.146)	56753	49.7613	49.8	
	50 1,2-Dichloropropane	63	5.078	5.078	(1.153)	42904	50.6055	50.6	
	51 Dibromomethane	93	5.200	5.200	(1.180)	33049	54.2992	54.3	
	52 1,4-Dioxane	88	5.257	5.258	(1.193)	3851	1184.70	1180(R)	
	53 Methyl methacrylate	69	5.257	5.258	(1.193)	42596	55.6572	55.6	
	54 Bromodichloromethane	83	5.386	5.386	(1.223)	68267	56.0552	56.0	
	55 2-Chloroethyl vinyl ether	63	5.737	5.737	(0.785)	162761	253.382	253	
	56 cis-1,3-Dichloropropene	75	5.866	5.866	(0.803)	80585	54.4901	54.5	
	57 4-Methyl-2-Pentanone	43	6.045	6.045	(0.827)	256013	230.909	231	
$	58 Toluene-d8	98	6.131	6.131	(0.839)	204947	50.1722	50.2	
	59 Toluene	91	6.196	6.196	(0.848)	217535	48.7821	48.8	
	60 trans-1,3-Dichloropropene	75	6.432	6.432	(0.880)	75095	53.9432	53.9	
	61 Ethyl Methacrylate	69	6.547	6.547	(0.896)	70647	52.6178	52.6	
	62 1,1,2-Trichloroethane	83	6.583	6.583	(0.901)	37233	51.1507	51.2	
	63 Tetrachloroethene	166	6.697	6.697	(0.917)	70692	51.5329	51.5	
	64 1,3-Dichloropropane	76	6.719	6.719	(0.920)	73755	49.8024	49.8	
	65 2-Hexanone	43	6.812	6.812	(0.932)	196528	248.354	248	
	66 Dibromochloromethane	129	6.898	6.898	(0.944)	60121	54.5554	54.6	
	67 1,2-Dibromoethane	107	6.969	6.970	(0.954)	52778	54.2327	54.2	
*	68 Chlorobenzene-d5	117	7.306	7.306	(1.000)	160698	50.0000		
	69 Chlorobenzene	112	7.327	7.328	(1.003)	151054	49.3362	49.3	
	70 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	57742	53.3622	53.4	
	71 Ethylbenzene	106	7.406	7.406	(1.014)	81683	50.1742	50.2	
	72 m&p-Xylene	106	7.485	7.485	(1.025)	202320	99.4903	99.5	
	73 o-Xylene	106	7.721	7.722	(1.057)	98161	50.7885	50.8	
	74 Styrene	104	7.729	7.729	(1.058)	168177	50.9139	50.9	
	75 Bromoform	173	7.836	7.829	(0.910)	45902	45.8203	45.8	
	76 Isopropylbenzene	105	7.936	7.937	(1.086)	257657	49.4657	49.5	
$	77 4-Bromofluorobenzene	95	8.015	8.015	(1.097)	78552	50.5738	50.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
78 Bromobenzene	77	8.094	8.094	(1.108)	84793	46.3694	46.4	
79 1,1,2,2-Tetrachloroethane	83	8.101	8.101	(0.941)	67392	52.4736	52.5	
80 1,2,3-Trichloropropane	110	8.123	8.123	(0.943)	23933	51.2769	51.3	
81 trans-1,4-Dichloro-2-butene	53	8.130	8.130	(1.113)	20486	53.3843	53.4	
82 n-Propylbenzene	91	8.158	8.159	(0.948)	289979	49.3098	49.3	
83 2-Chlorotoluene	91	8.201	8.202	(0.953)	168525	49.3737	49.4	
84 1,3,5-Trimethylbenzene	105	8.252	8.252	(0.958)	212394	49.4416	49.4	
85 4-Chlorotoluene	126	8.259	8.259	(0.959)	65307	50.6835	50.7	
86 tert-Butylbenzene	119	8.416	8.416	(0.978)	202709	45.8819	45.9	
87 1,2,4-Trimethylbenzene	105	8.445	8.445	(0.981)	215051	48.9247	48.9	
88 sec-Butylbenzene	105	8.531	8.531	(0.991)	262267	49.5106	49.5	
89 1,3-Dichlorobenzene	146	8.581	8.581	(0.997)	124727	49.0740	49.1	
90 p-Isopropyltoluene	119	8.595	8.596	(0.998)	235750	50.2891	50.3	
* 91 1,4-Dichlorobenzene-d4	152	8.610	8.610	(1.000)	88185	50.0000		
92 1,4-Dichlorobenzene	146	8.624	8.624	(1.002)	126508	50.5988	50.6	
93 1,2,3-Trimethylbenzene	105	8.645	8.646	(1.004)	200738	48.6814	48.7	
94 n-Butylbenzene	91	8.789	8.789	(1.021)	185405	49.5080	49.5	
95 1,2-Dichlorobenzene	146	8.803	8.803	(1.022)	111676	49.3017	49.3	
96 Hexachloroethane	201	8.925	8.925	(1.037)	37658	53.2479	53.2	
97 1,2-Dibromo-3-chloropropane	155	9.154	9.154	(1.063)	16993	49.4818	49.5	
98 1,2,4-Trichlorobenzene	180	9.519	9.520	(1.106)	66136	48.9218	48.9	
99 Hexachlorobutadiene	225	9.591	9.591	(1.114)	34025	51.4119	51.4	
100 Naphthalene	128	9.627	9.627	(1.118)	186426	52.8766	52.9	
101 1,2,3-Trichlorobenzene	180	9.727	9.727	(1.130)	56005	52.5341	52.5	
102 2,methyl-naphthalene	142	10.121	10.128	(1.176)	62432	52.0534	52.0	
103 1-Methylnaphthalene	142	10.221	10.222	(1.187)	51412	50.1054	50.1	

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\a012723.b\a02lcs.d

Page 4

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

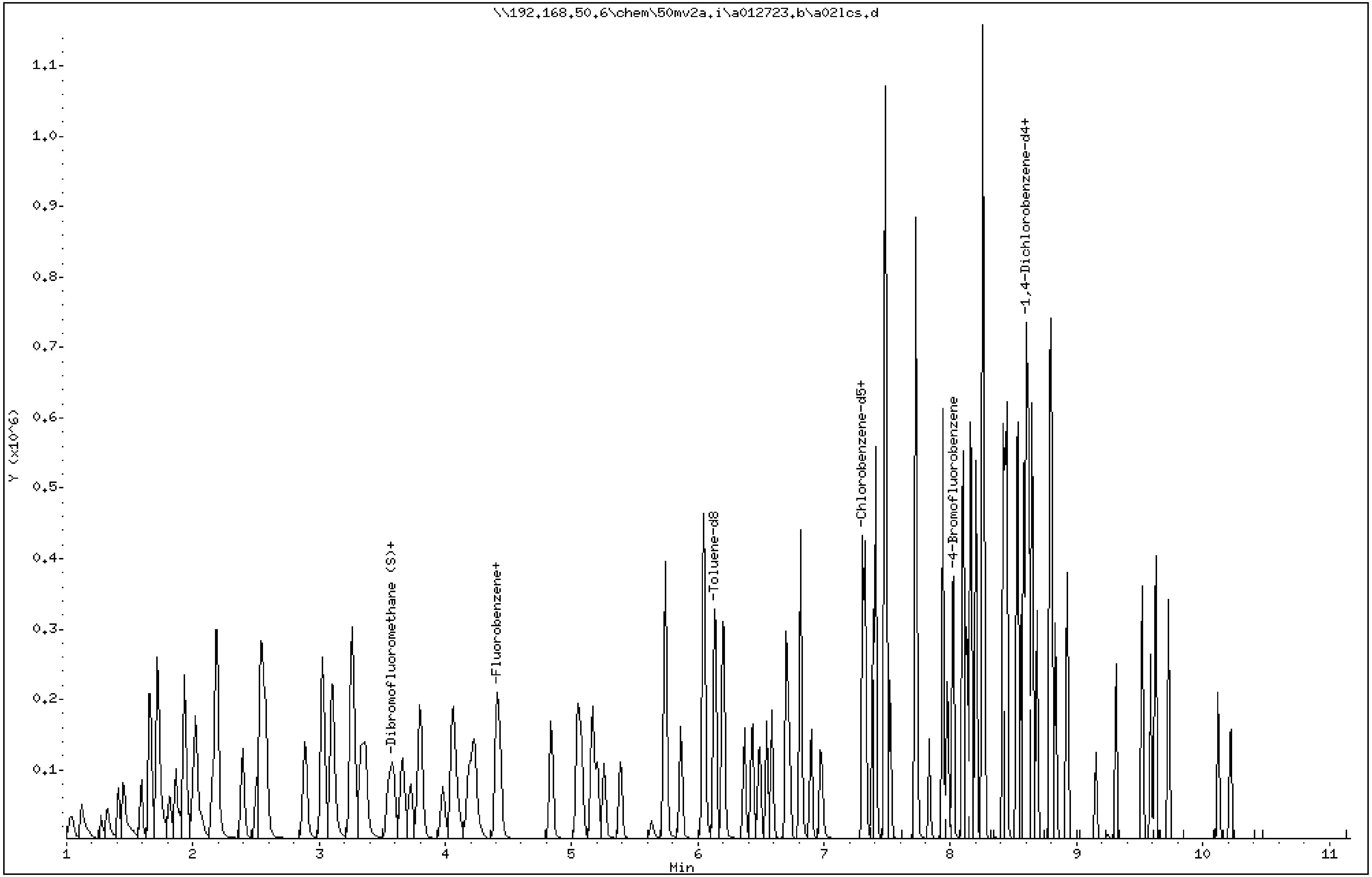
Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

Column phase: DB-624

Column diameter: 0.18



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Date : 27-JAN-2023 11:35

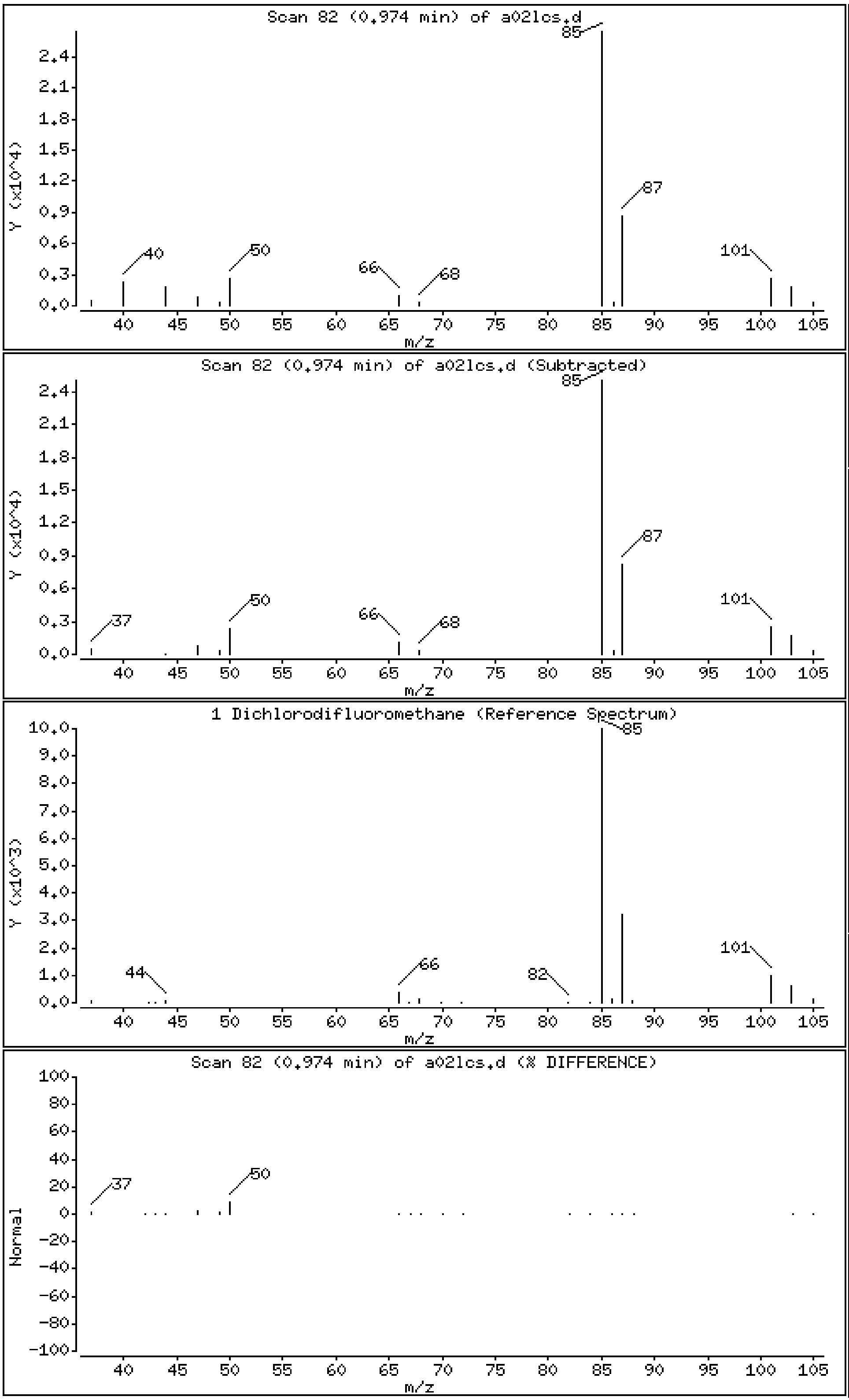
Client ID: Instrument: 50mv2a.i

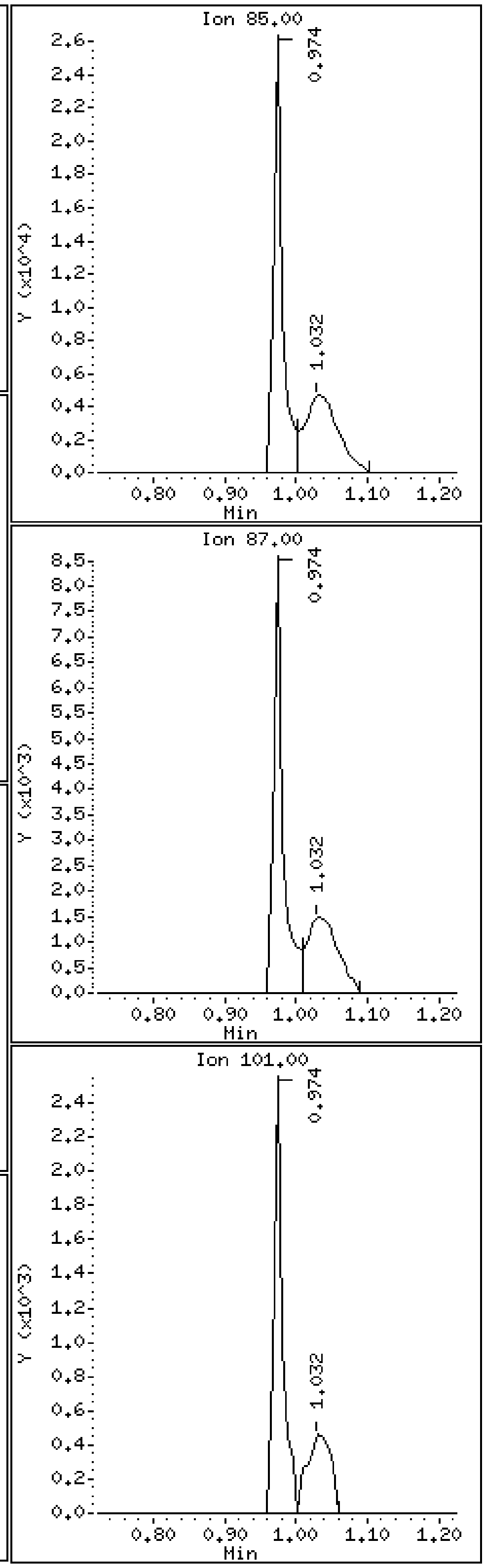
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

1 Dichlorodifluoromethane Concentration: 23.3 ppb Review Code:





Date : 27-JAN-2023 11:35

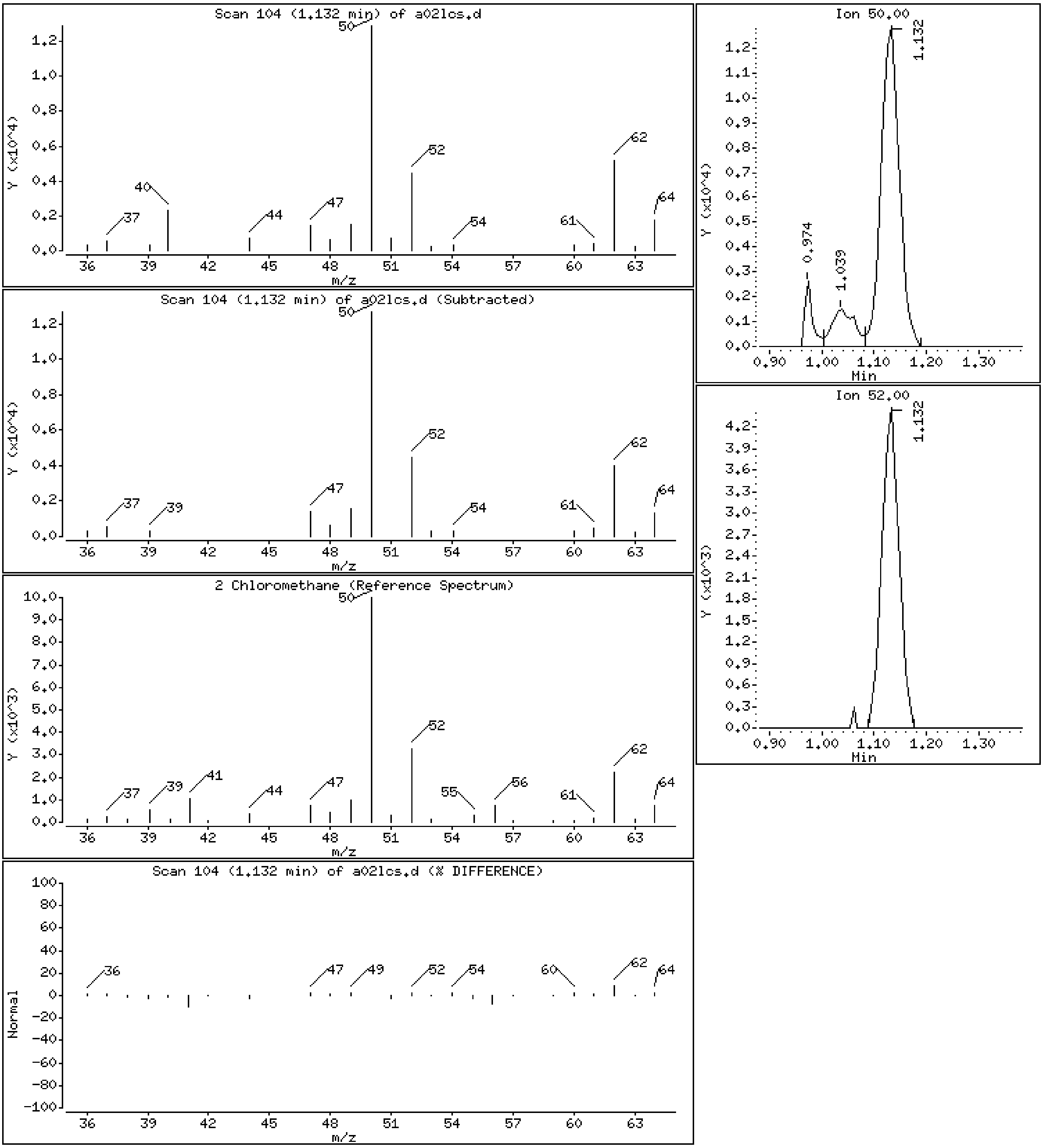
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

2 Chloromethane Concentration: 42.2 ppb Review Code:



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Page 7

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

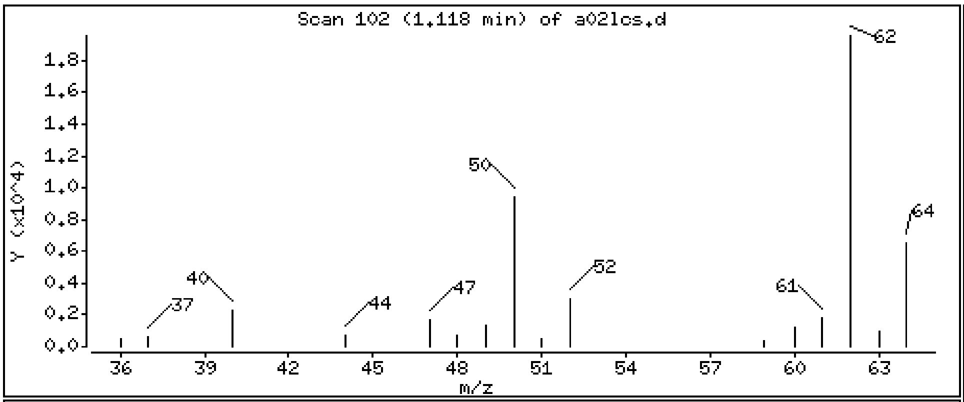
Column phase: DB-624

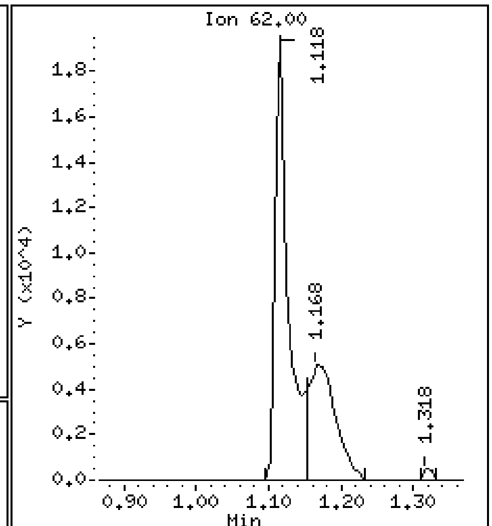
Column diameter: 0.18

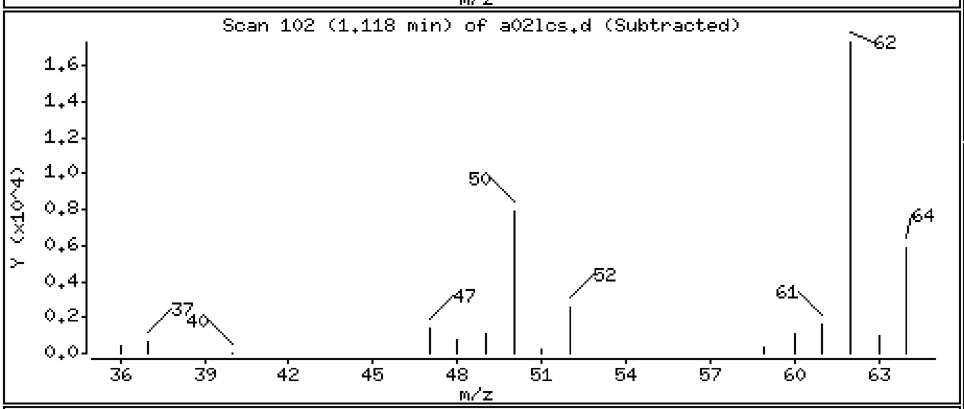
3 Vinyl Chloride

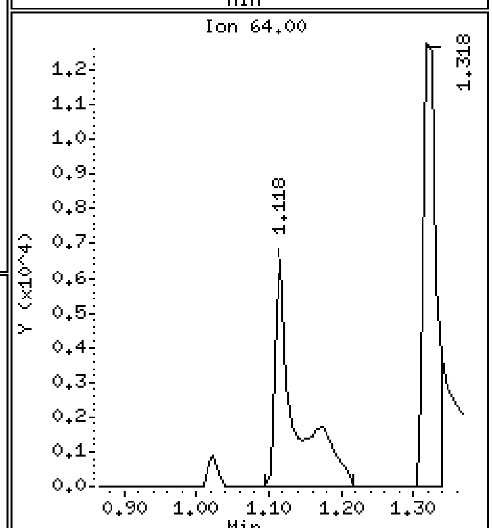
Concentration: 26.9 ppb

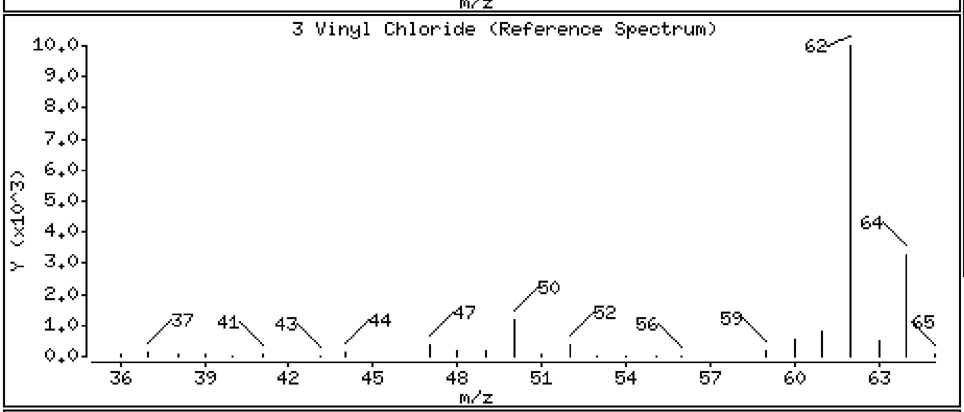
Review Code:

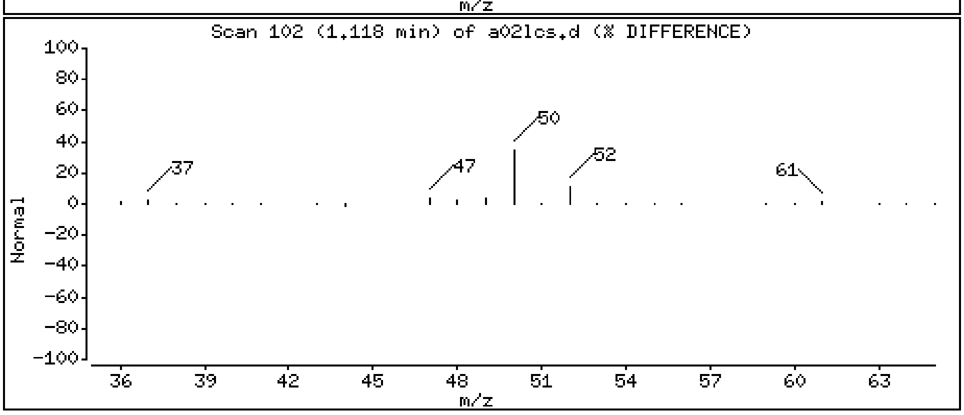












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

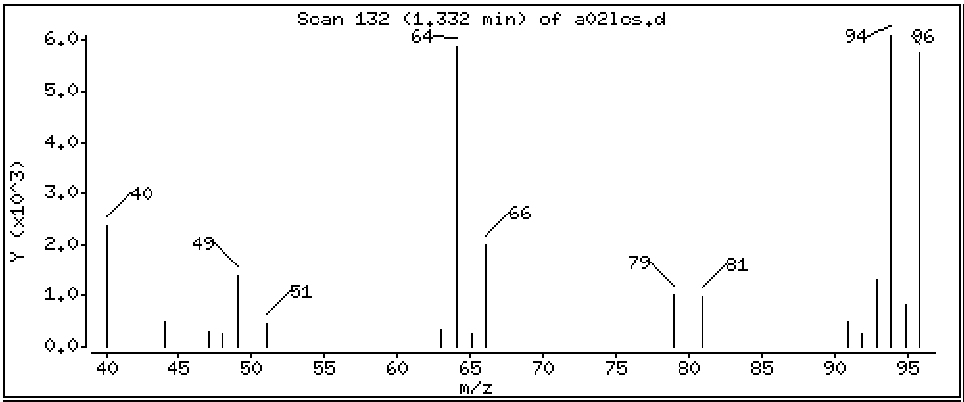
Column phase: DB-624

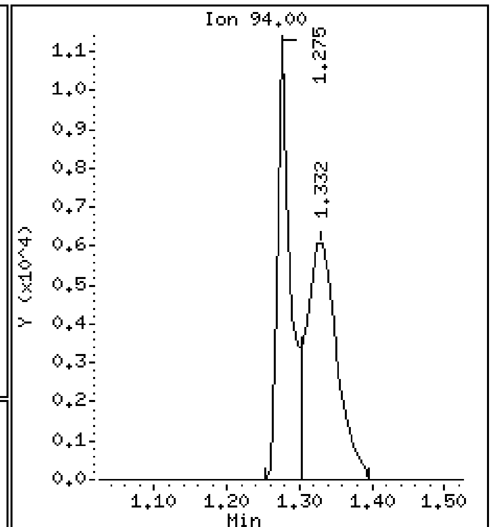
Column diameter: 0.18

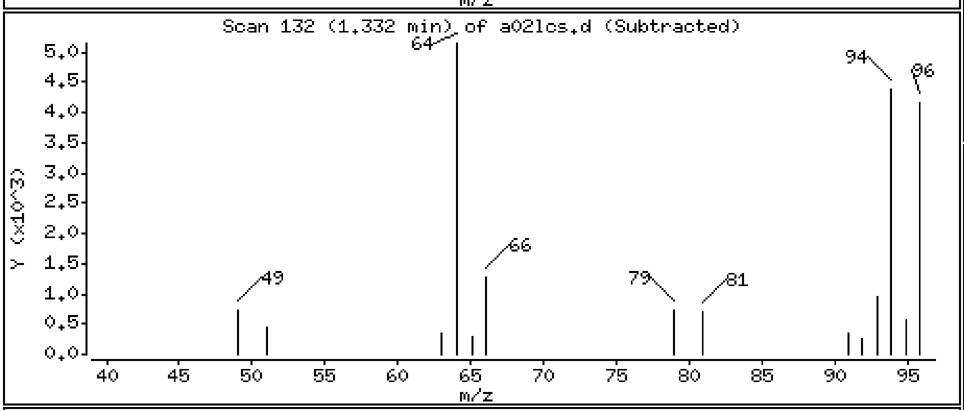
4 Bromomethane

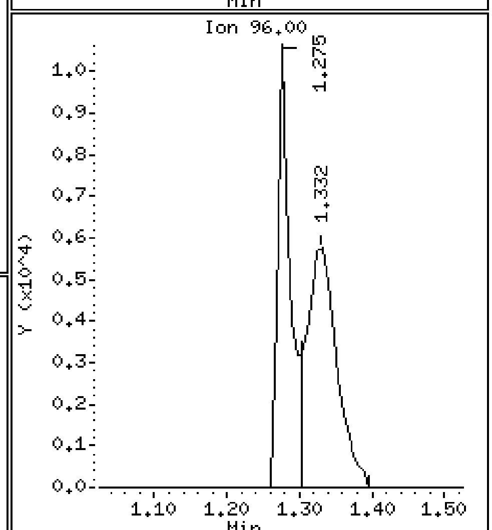
Concentration: 29.3 ppb

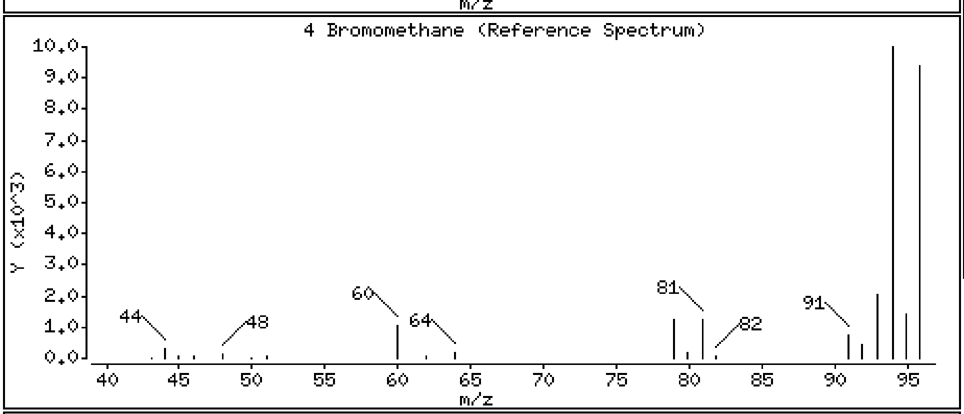
Review Code:

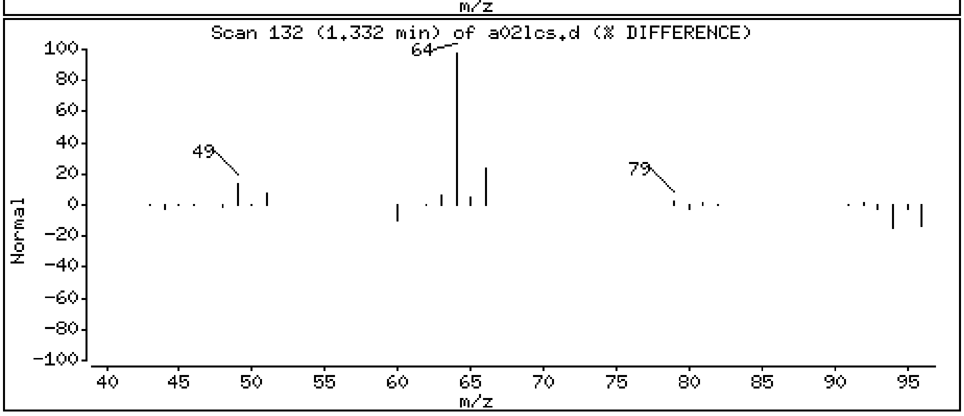












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Date : 27-JAN-2023 11:35

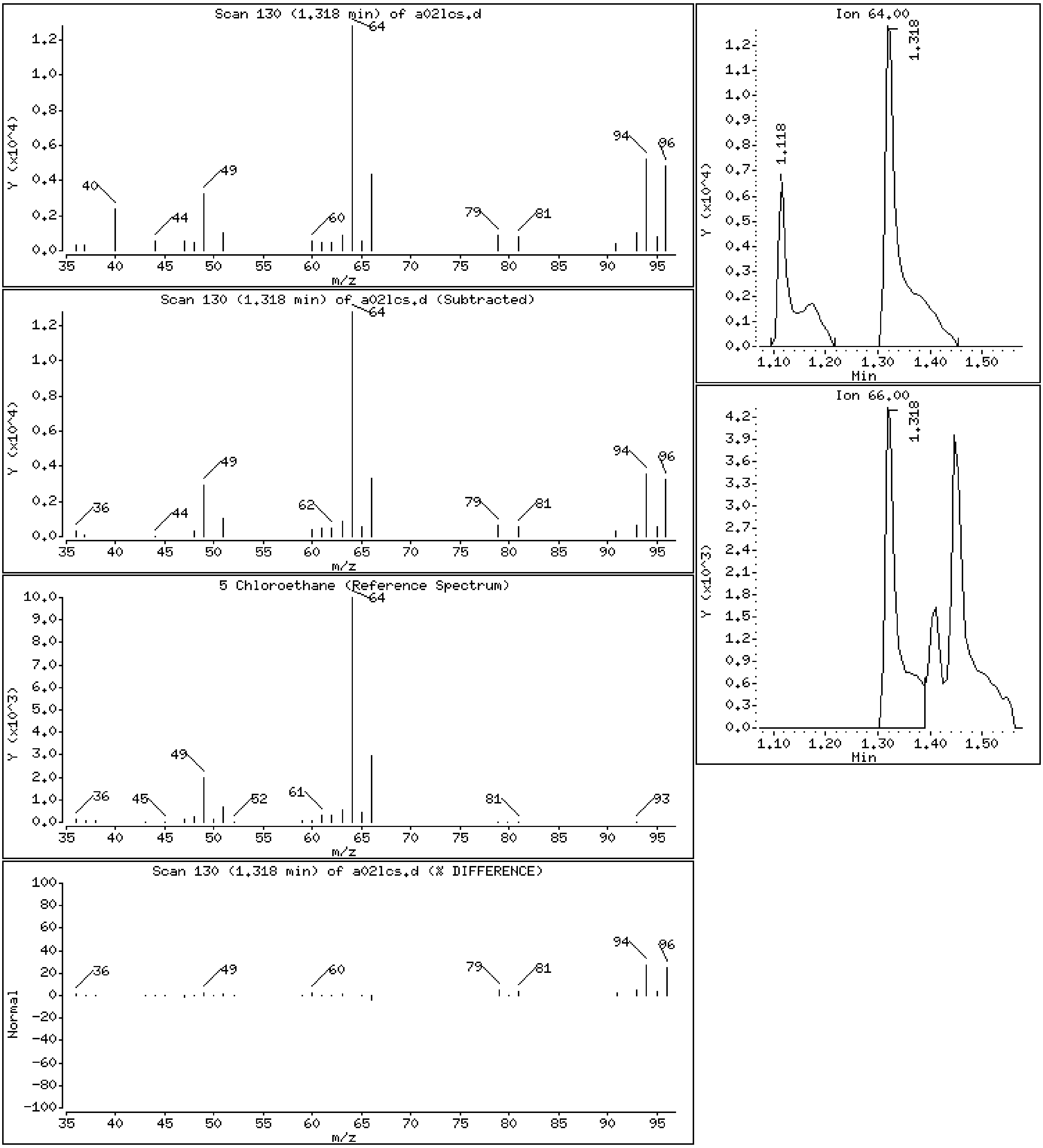
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

5 Chloroethane Concentration: 44.8 ppb Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

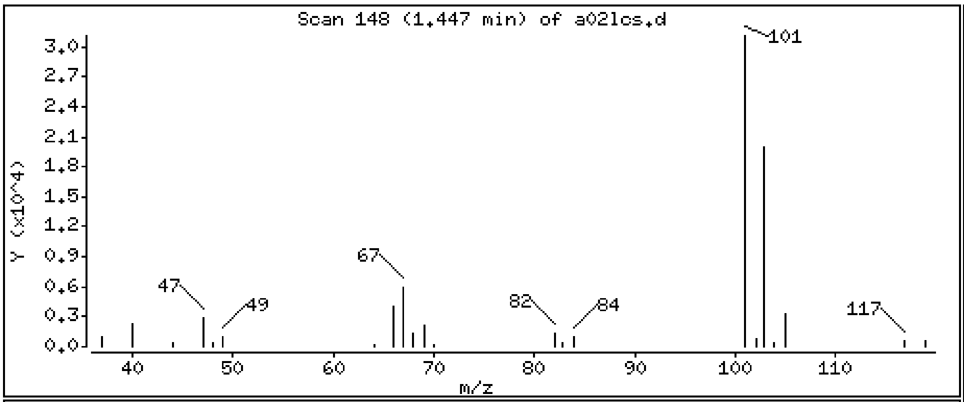
Column phase: DB-624

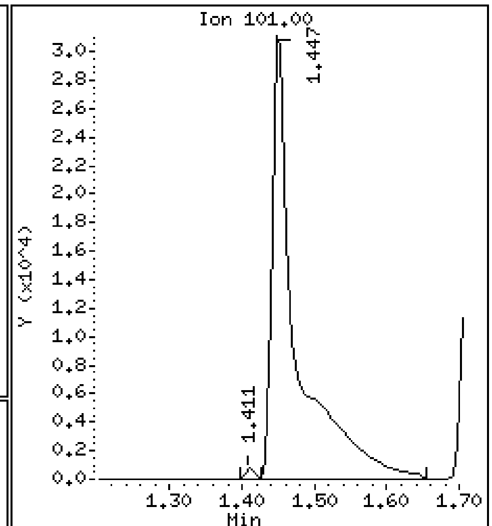
Column diameter: 0.18

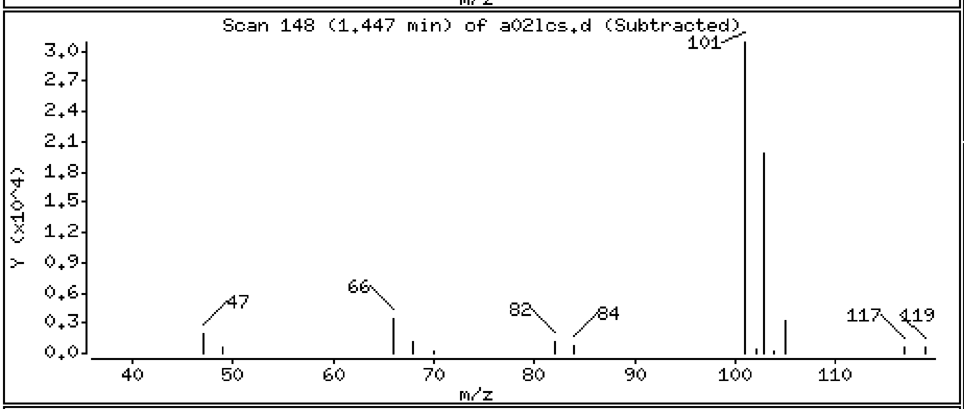
6 Trichlorofluoromethane

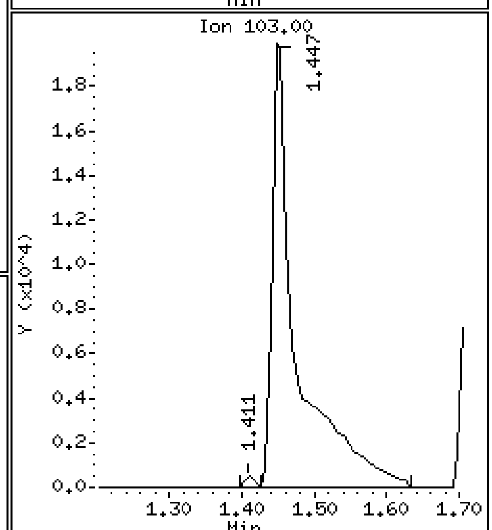
Concentration: 47.9 ppb

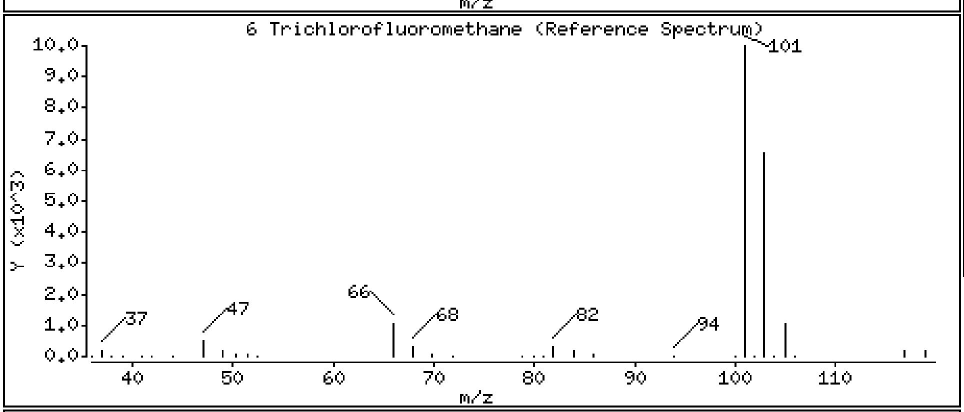
Review Code:

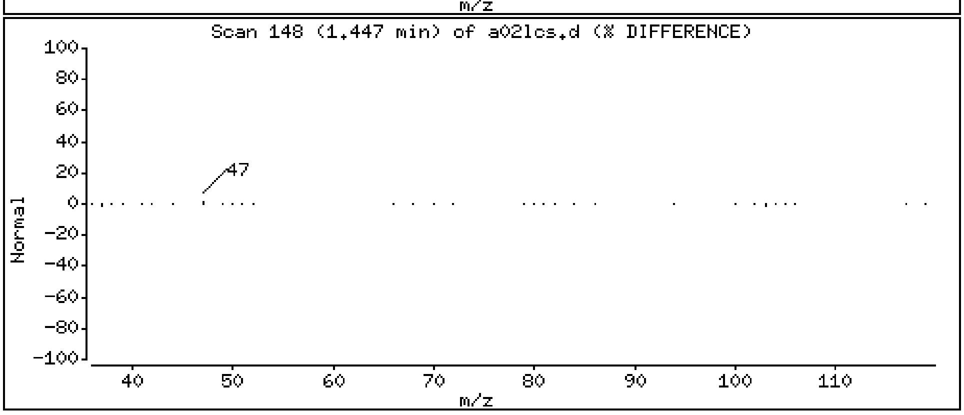












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Date : 27-JAN-2023 11:35

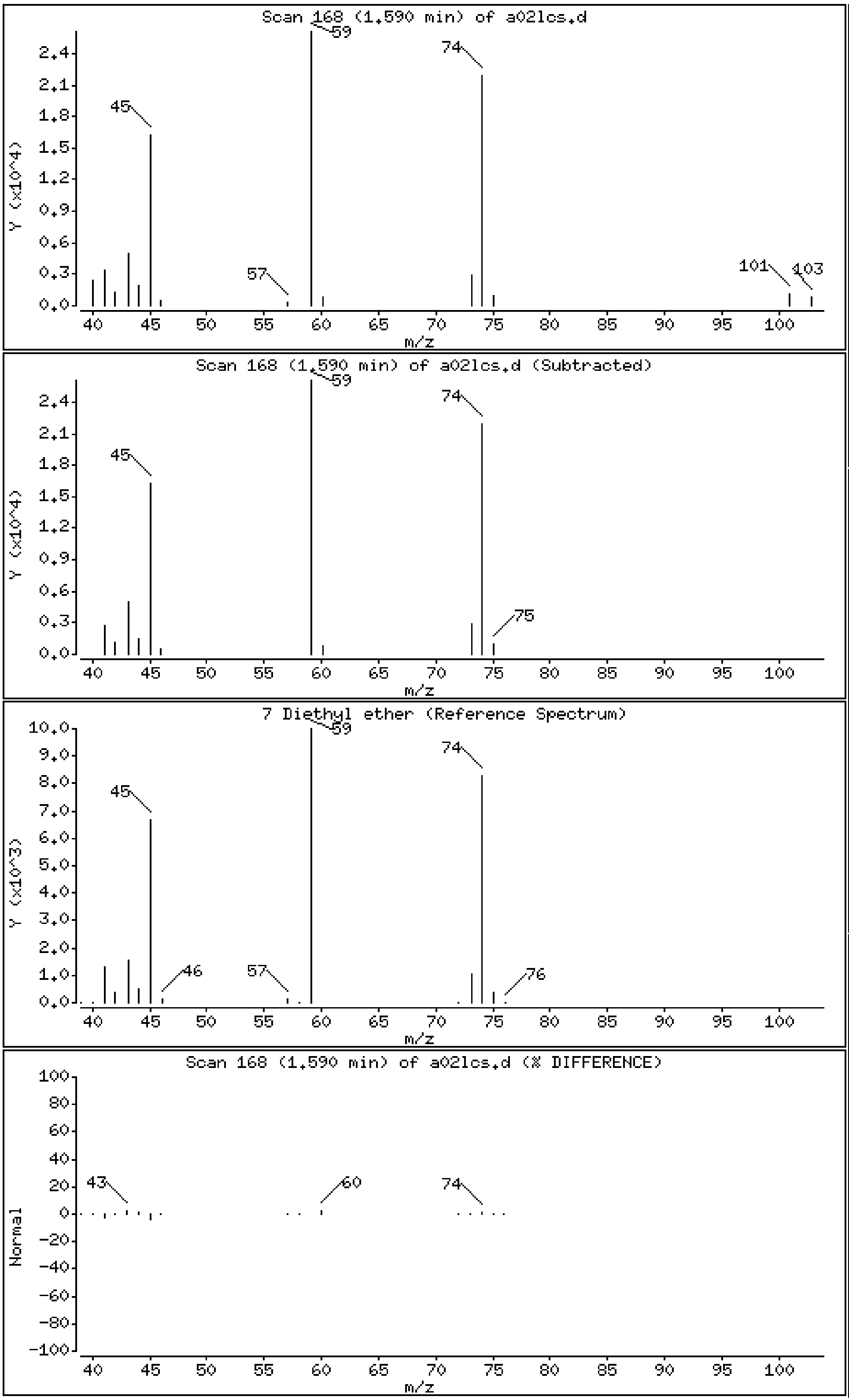
Client ID: Instrument: 50mv2a.i

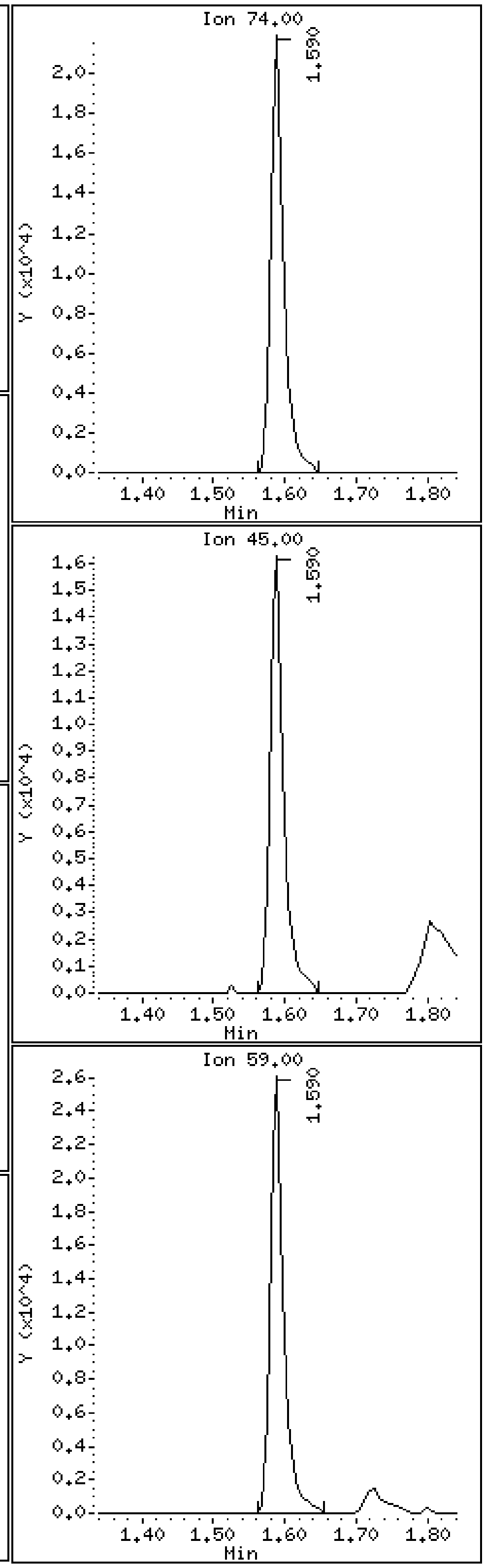
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

7 Diethyl ether Concentration: 52.1 ppb Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

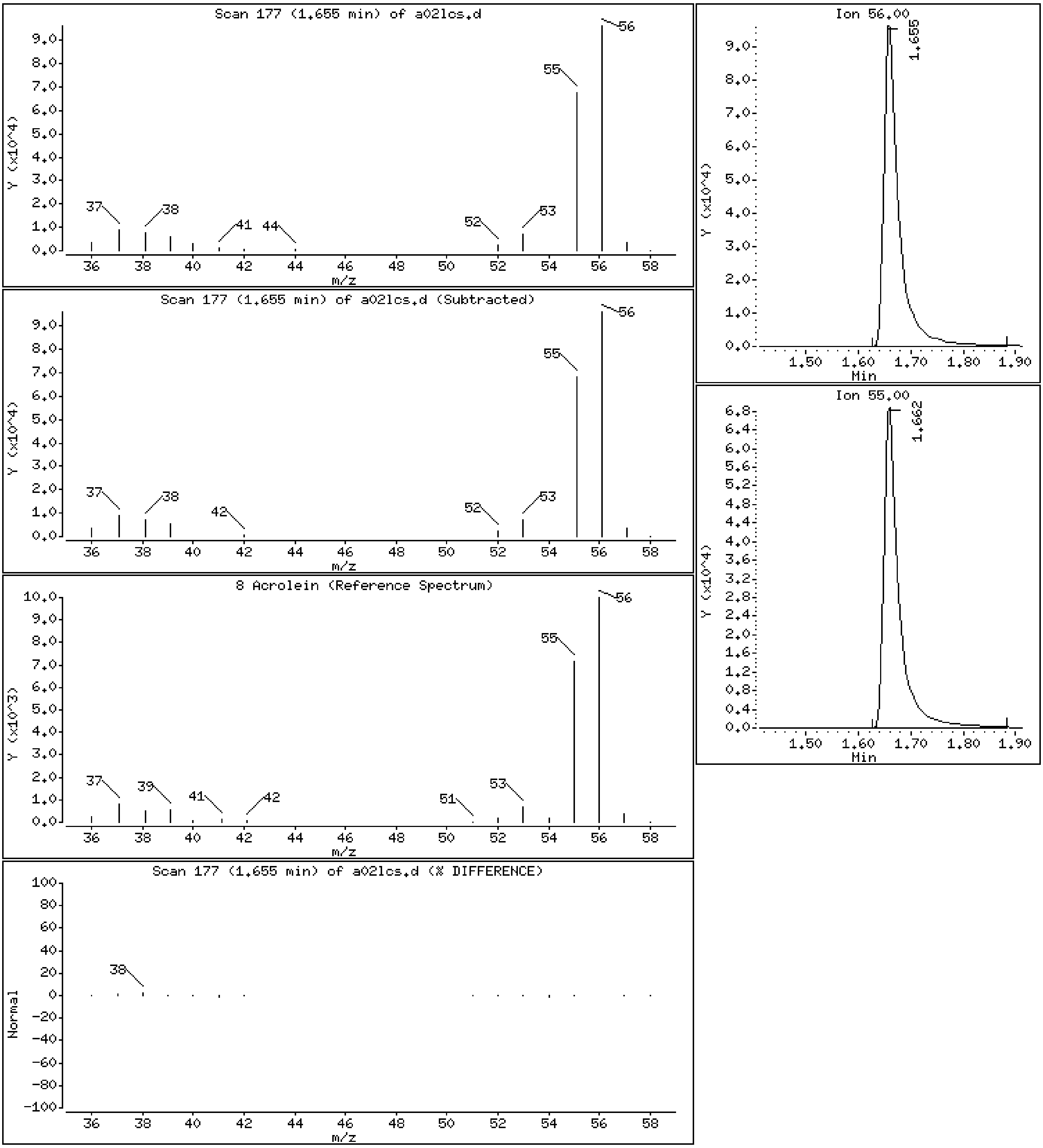
Column phase: DB-624

Column diameter: 0.18

8 Acrolein

Concentration: 1020 ppb

Review Code:



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Date : 27-JAN-2023 11:35

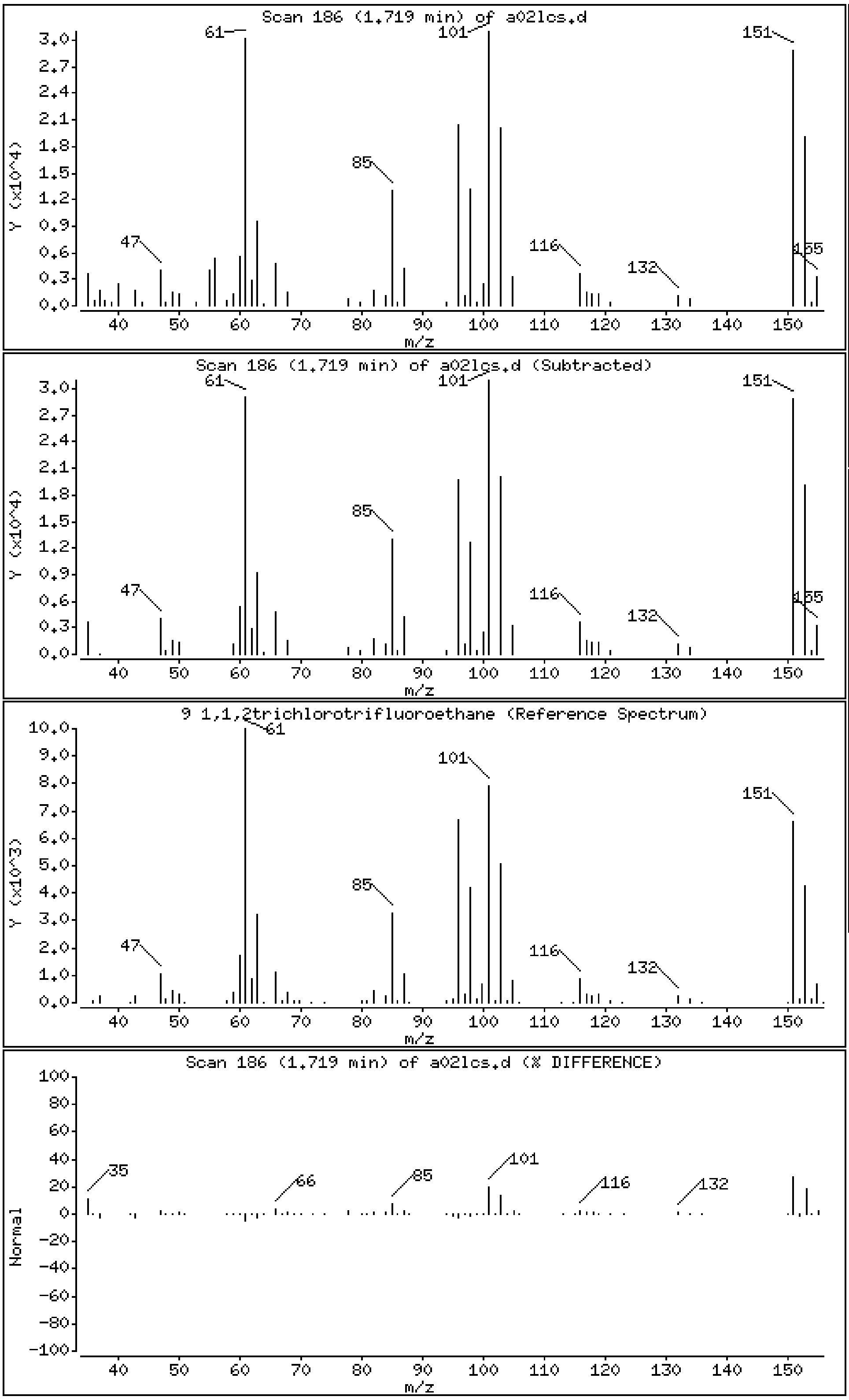
Client ID: Instrument: 50mv2a.i

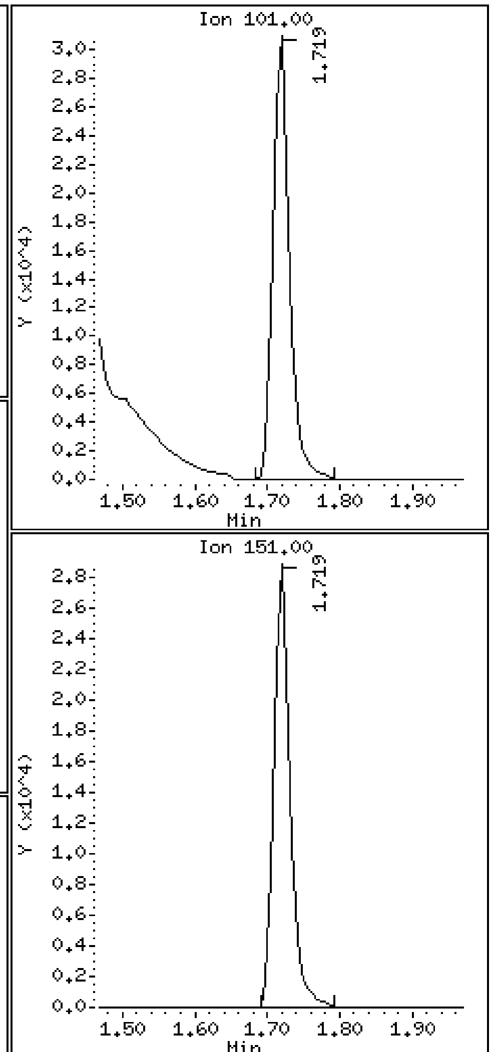
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

9 1,1,2trichlorotrifluoroethane Concentration: 50.6 ppb Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

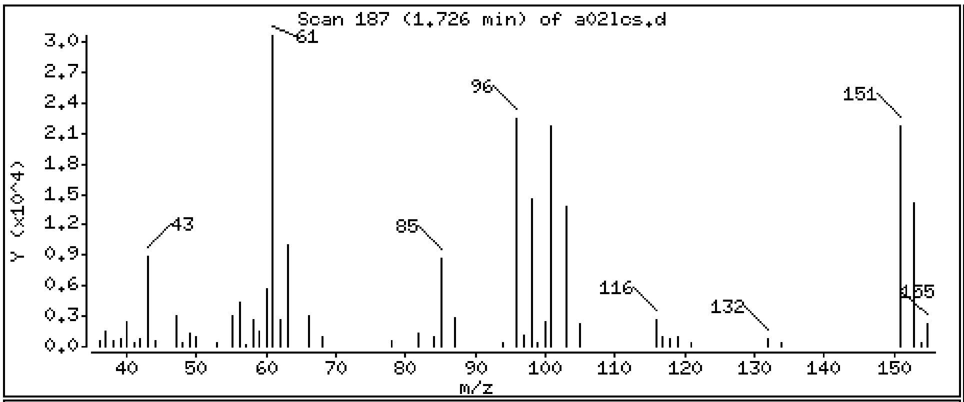
Column phase: DB-624

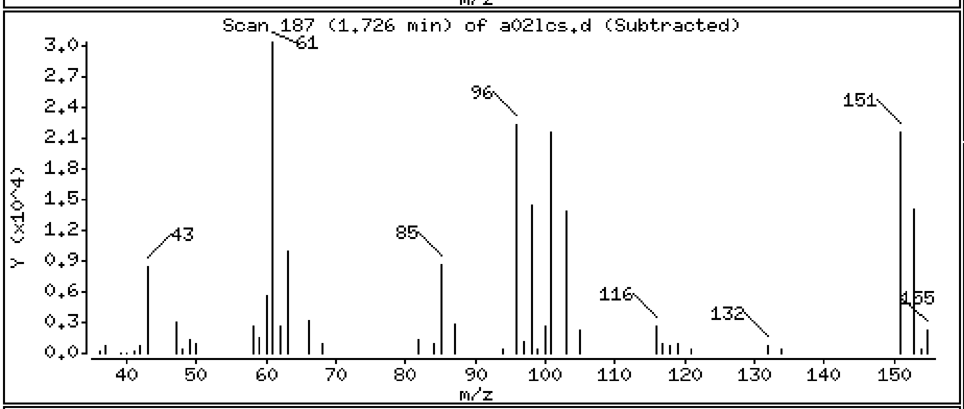
Column diameter: 0.18

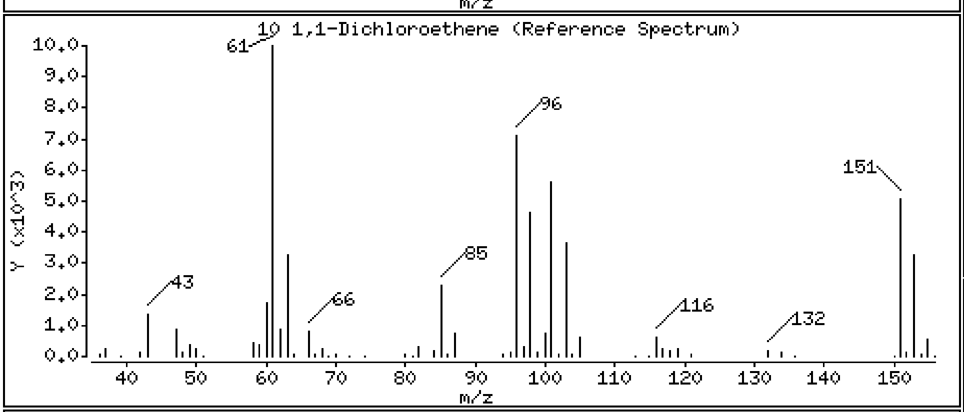
10 1,1-Dichloroethene

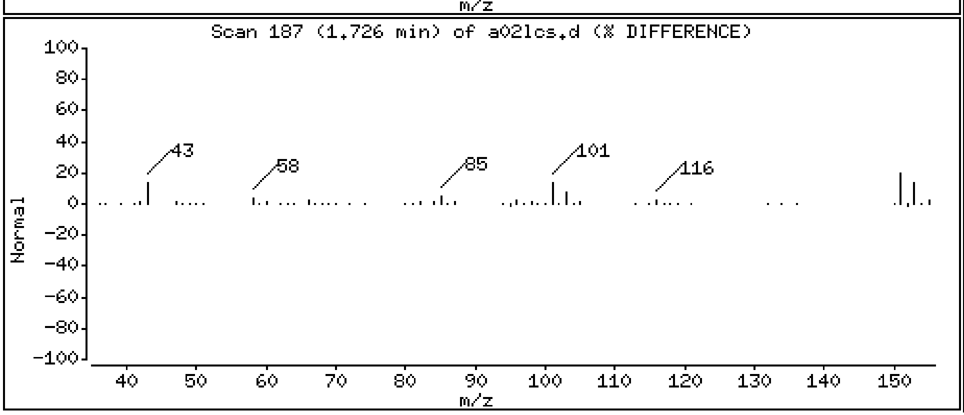
Concentration: 51.3 ppb

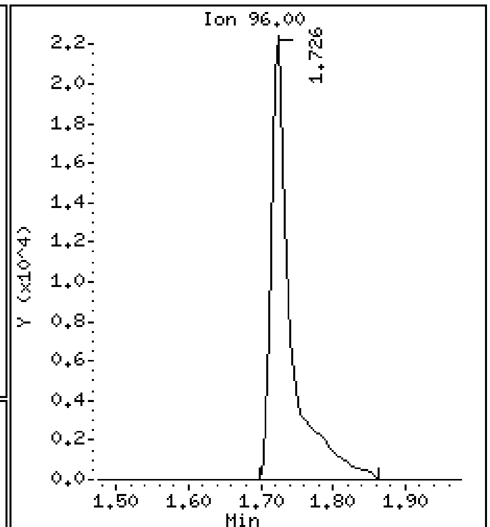
Review Code:

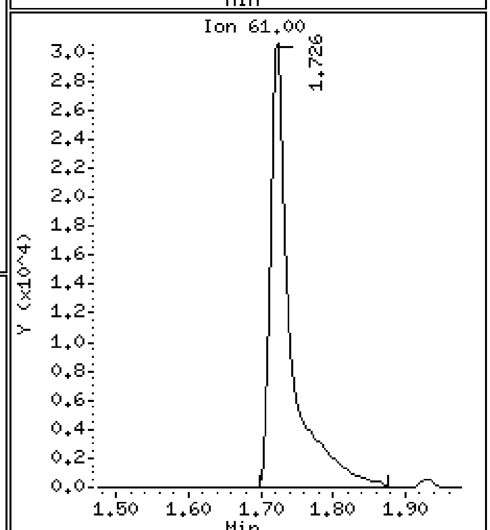


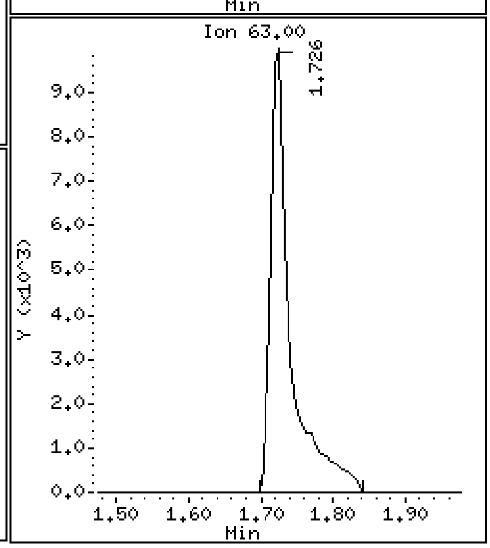












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

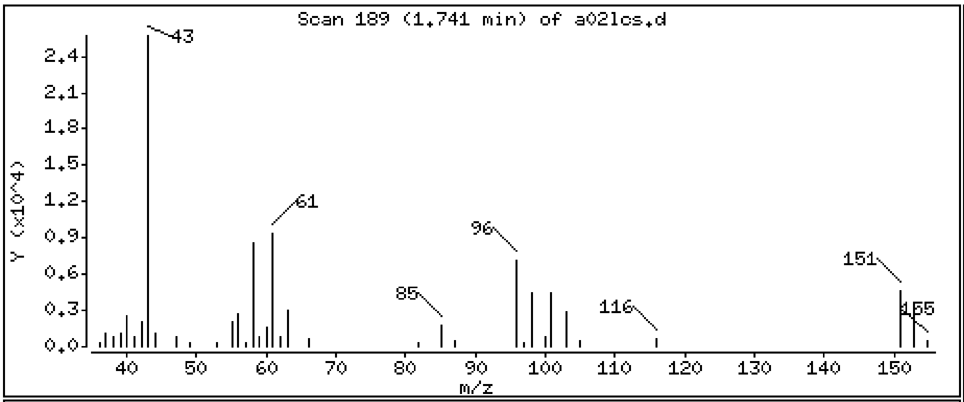
Column phase: DB-624

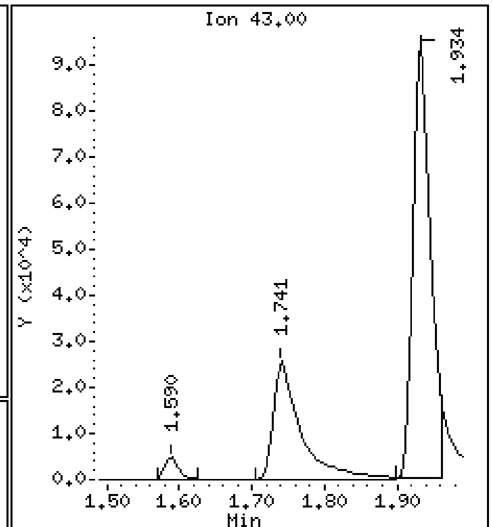
Column diameter: 0.18

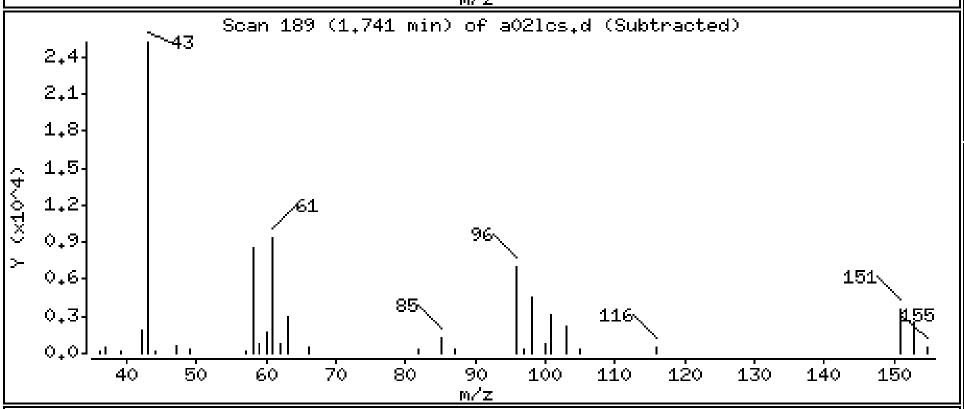
11 Acetone

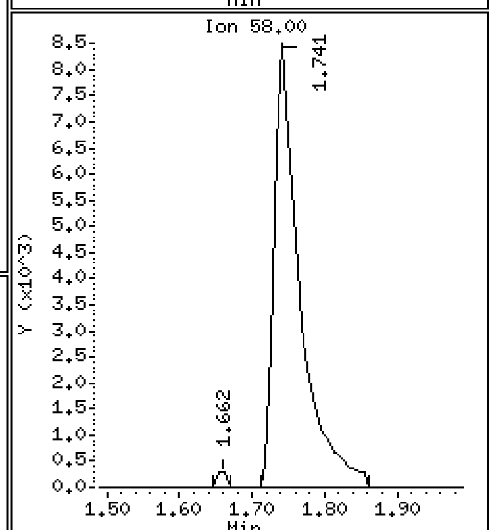
Concentration: 213 ppb

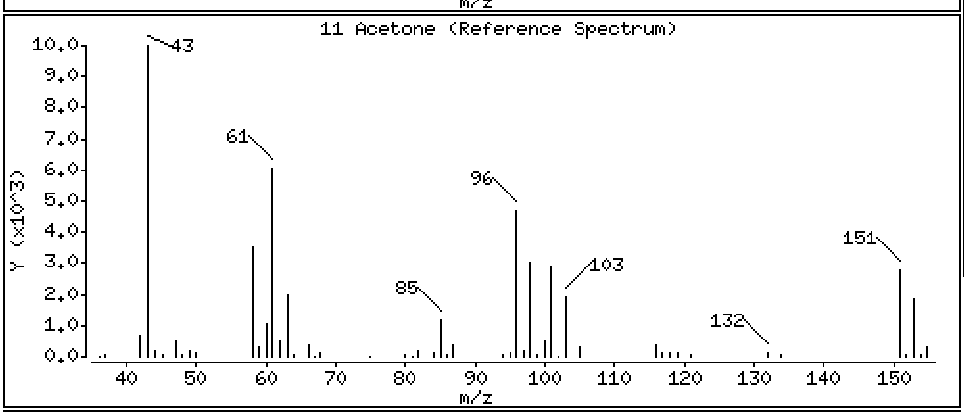
Review Code:

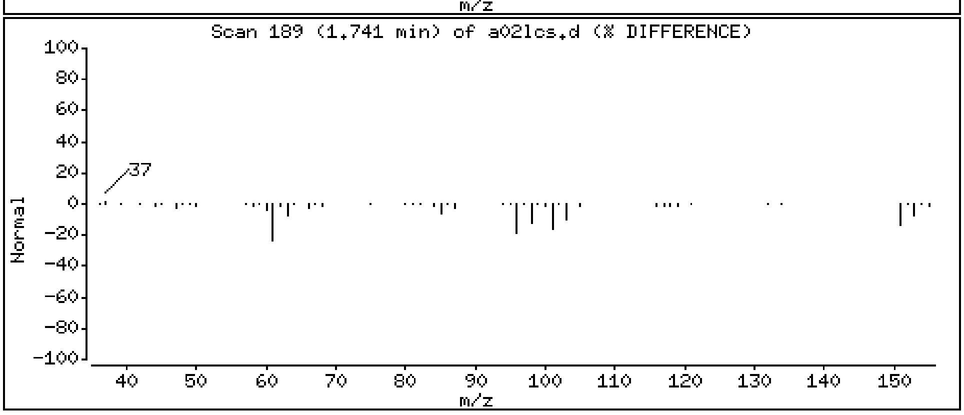












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

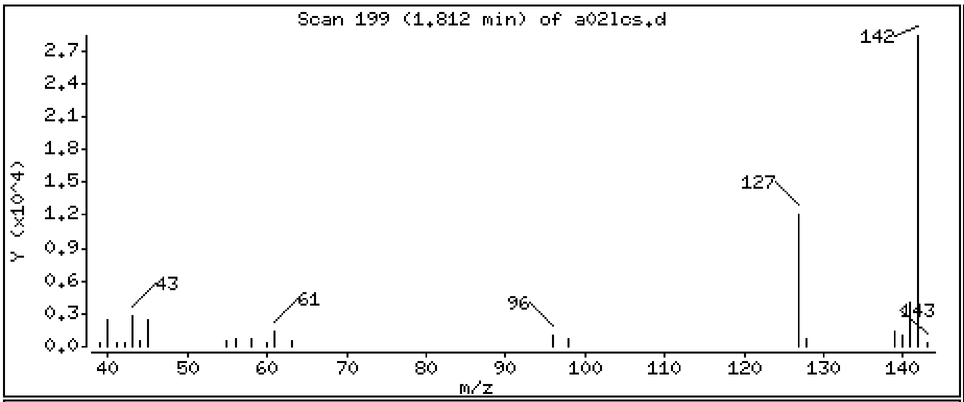
Column phase: DB-624

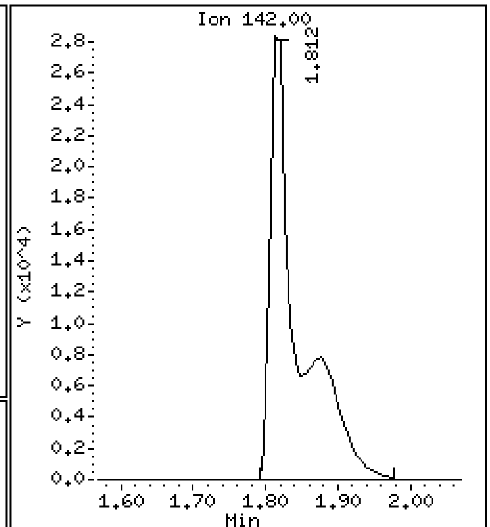
Column diameter: 0.18

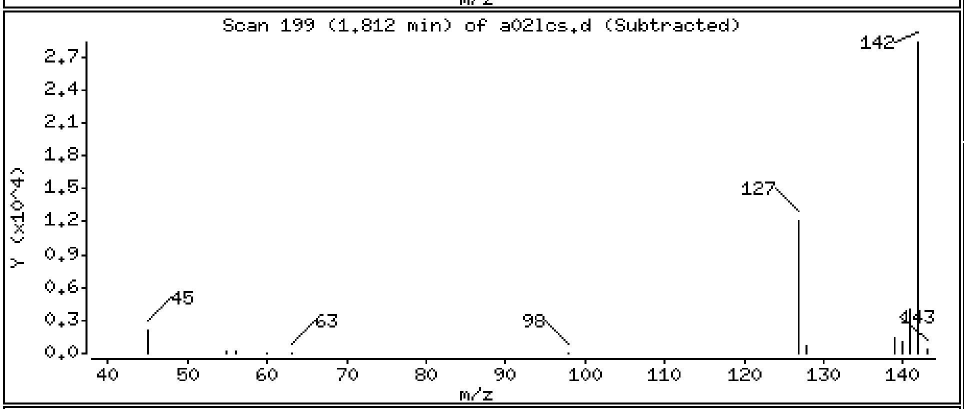
12 Iodomethane

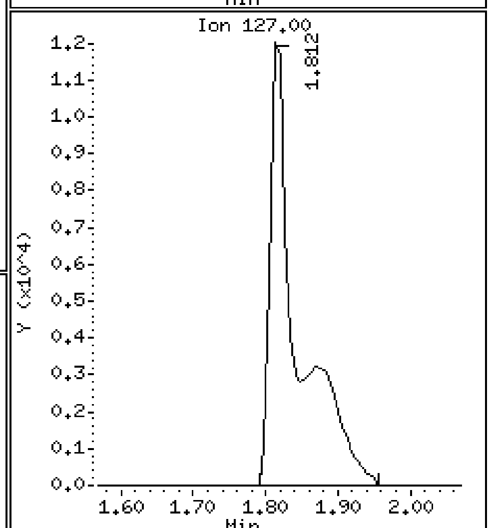
Concentration: 52.0 ppb

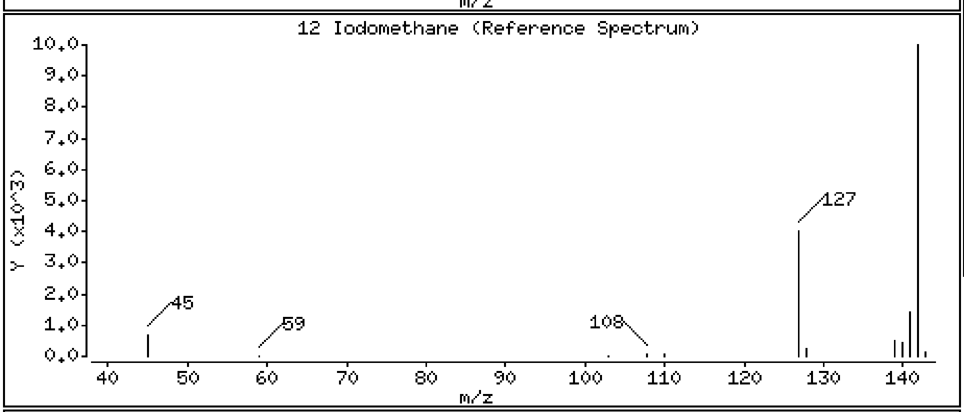
Review Code:

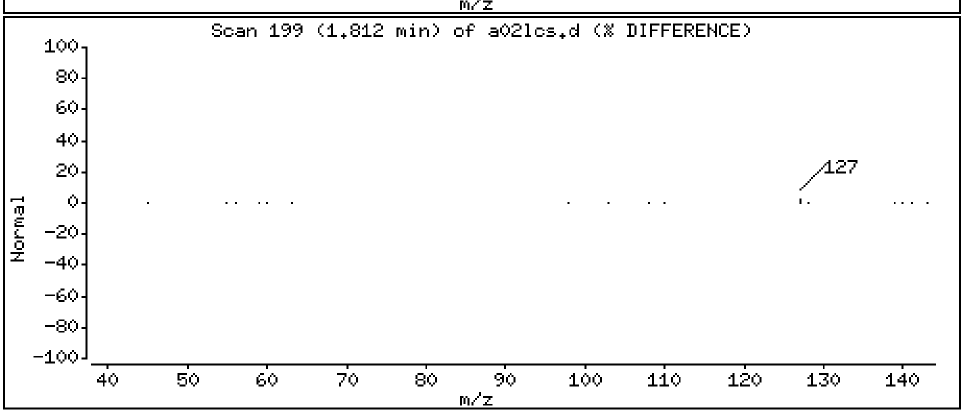












Date : 27-JAN-2023 11:35

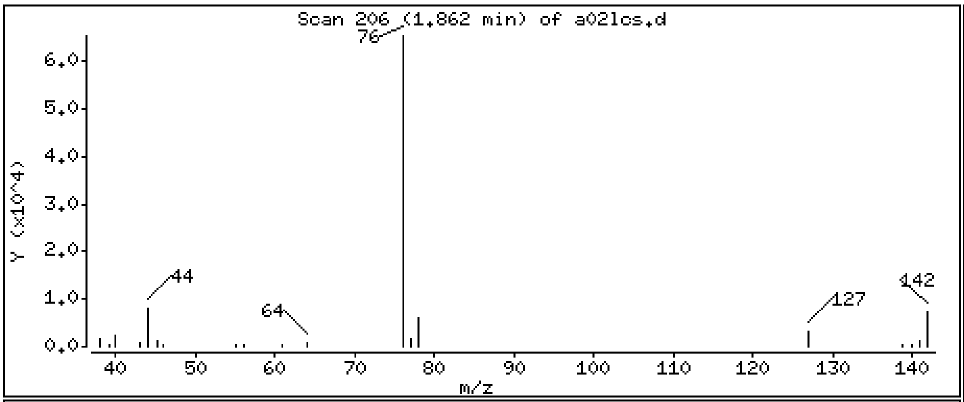
Client ID: Instrument: 50mv2a.i

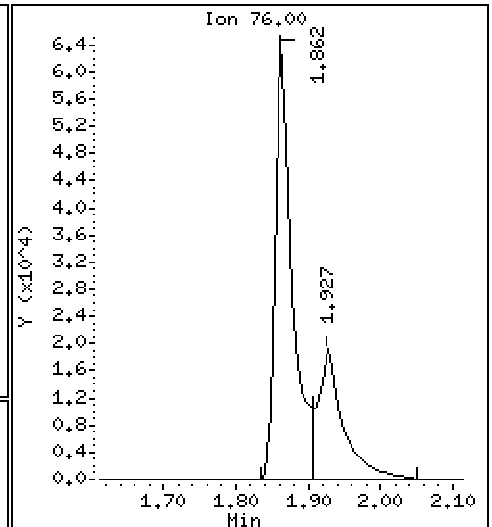
Sample Info: 3289829,336609:5

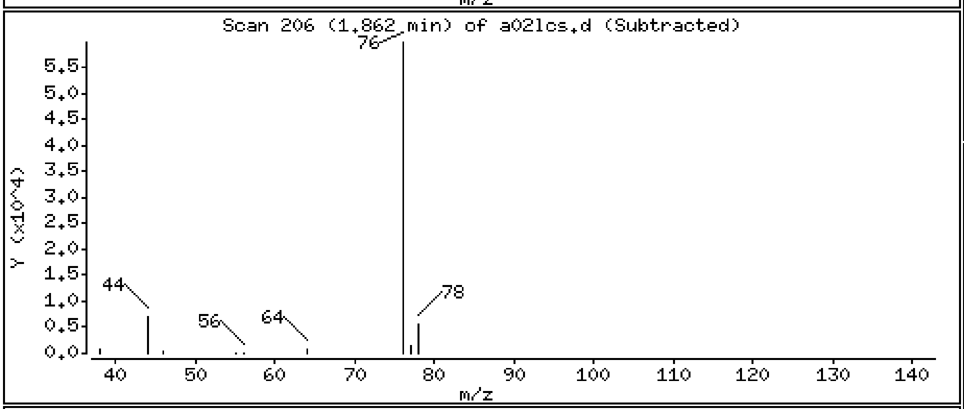
Purge Volume: 5.0 Operator: tkg

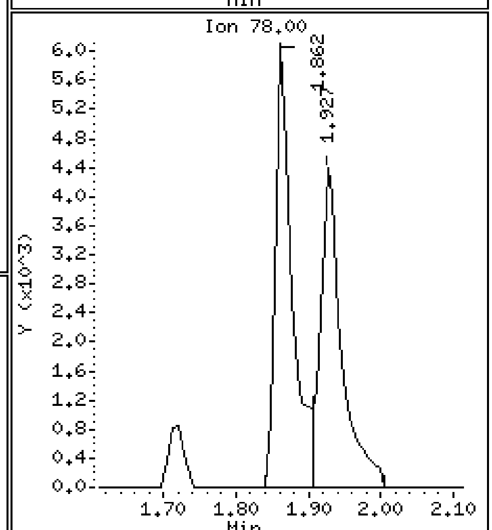
Column phase: DB-624 Column diameter: 0.18

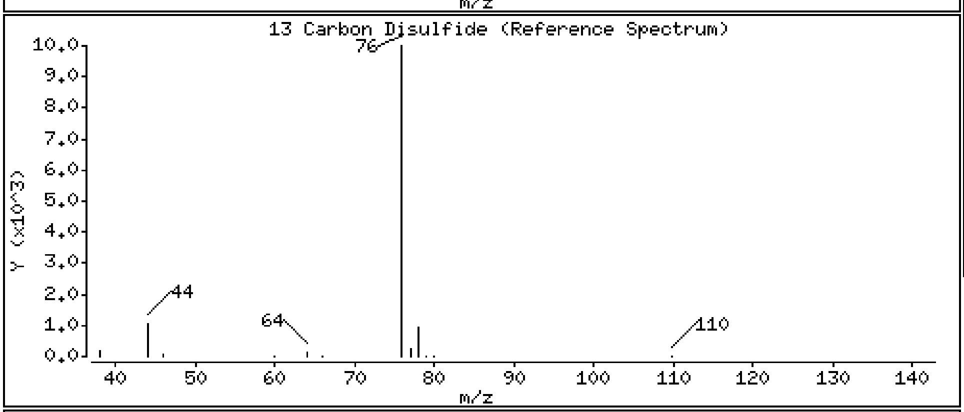
13 Carbon Disulfide Concentration: 47.8 ppb Review Code:

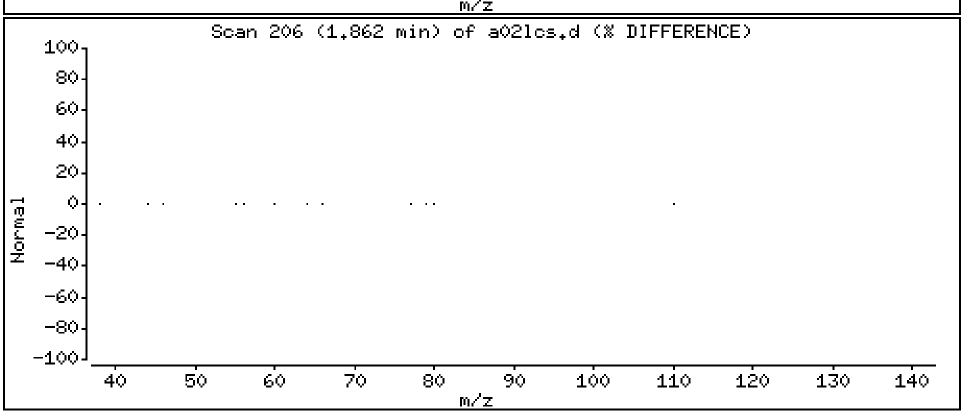












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

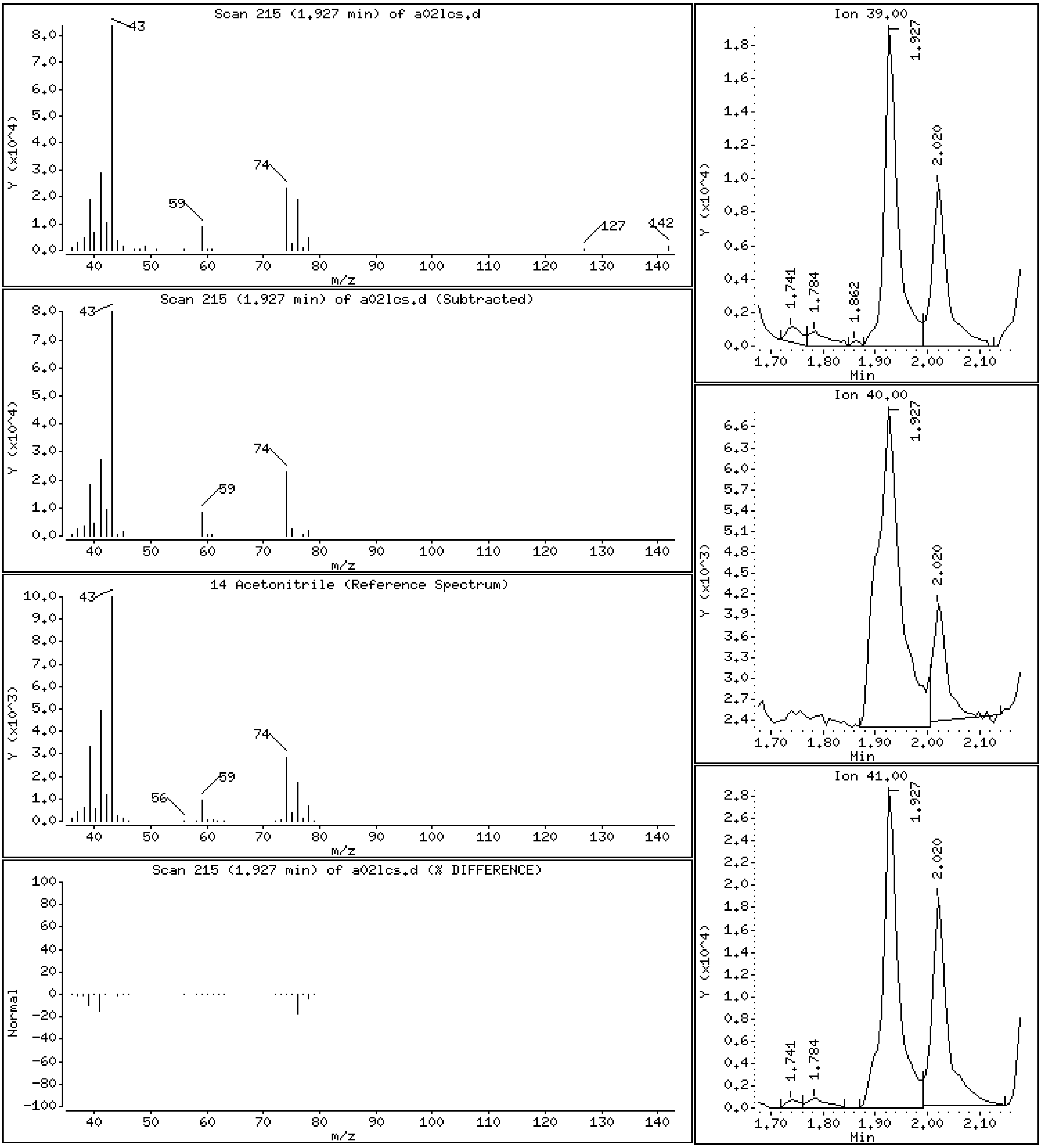
Column phase: DB-624

Column diameter: 0.18

14 Acetonitrile

Concentration: 231 ppb

Review Code:



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Date : 27-JAN-2023 11:35

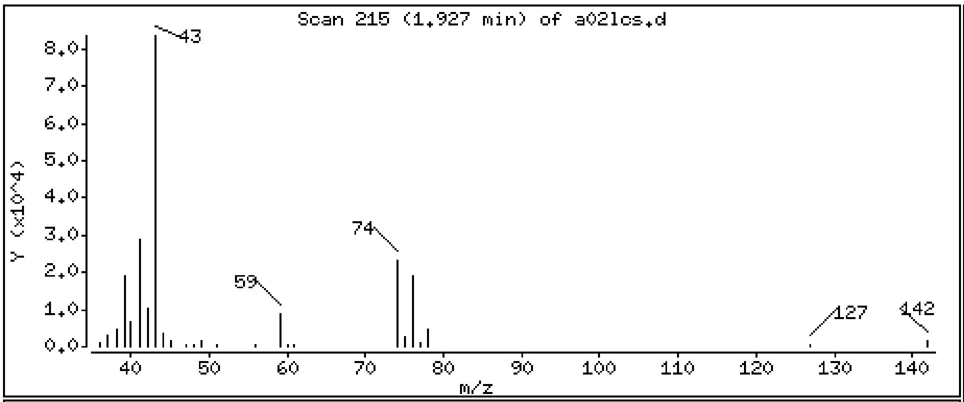
Client ID: Instrument: 50mv2a.i

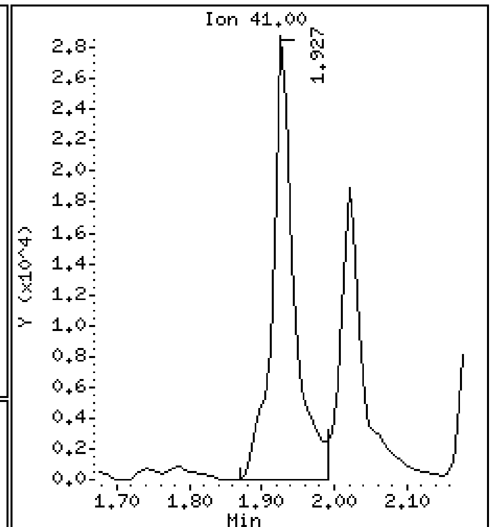
Sample Info: 3289829,336609:5

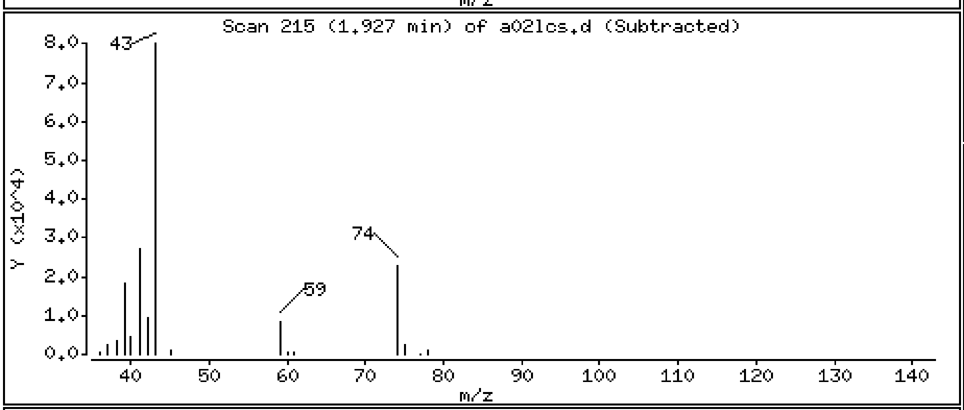
Purge Volume: 5.0 Operator: tkg

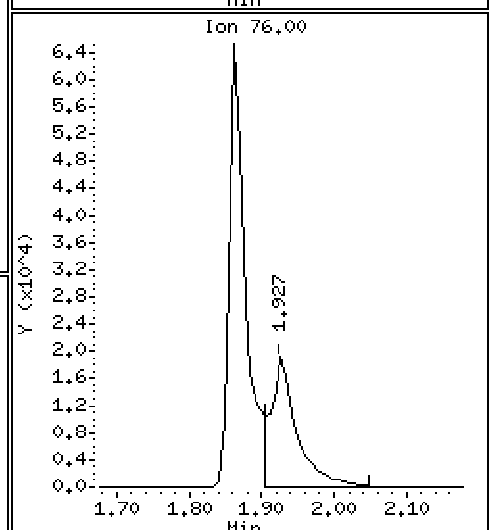
Column phase: DB-624 Column diameter: 0.18

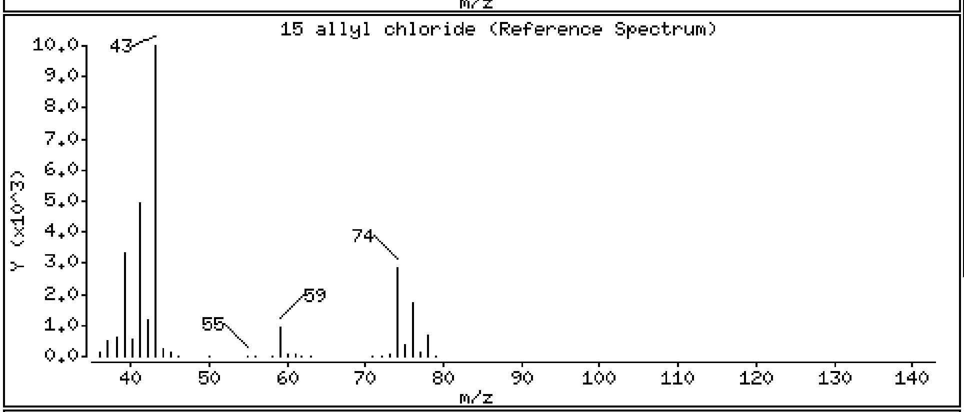
15 allyl chloride Concentration: 46.0 ppb Review Code:

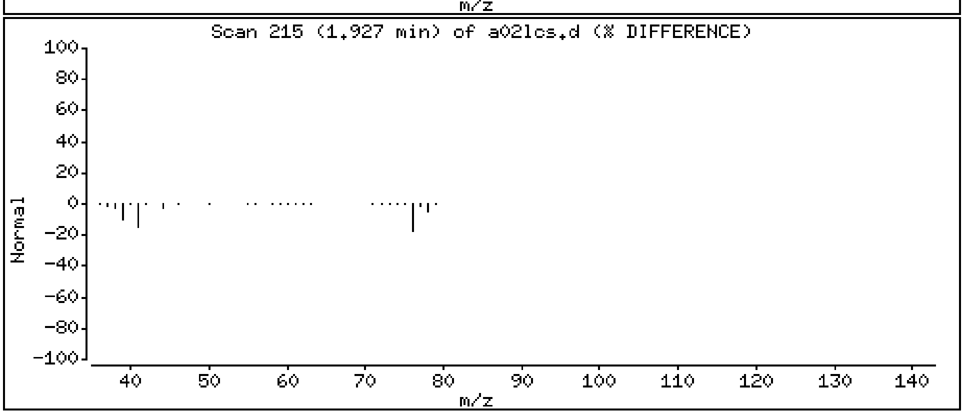












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

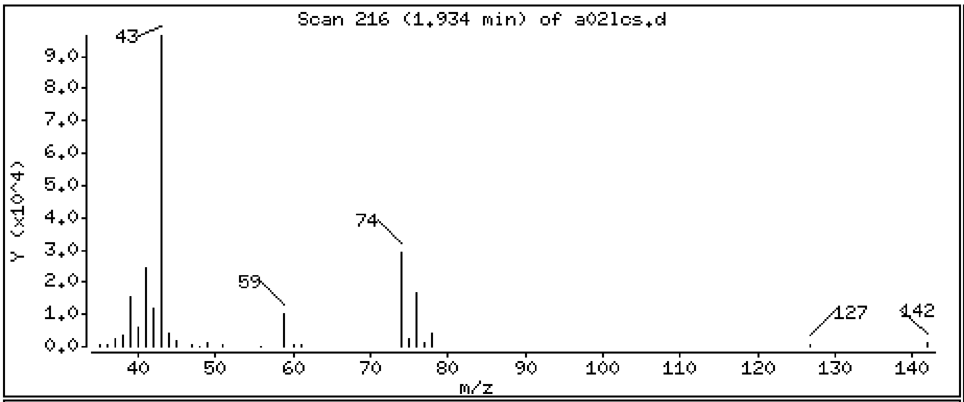
Column phase: DB-624

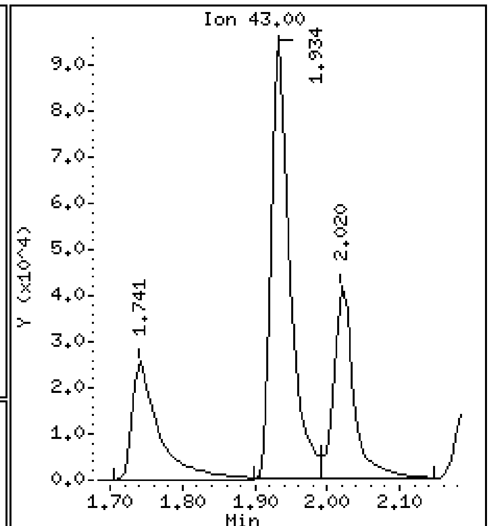
Column diameter: 0.18

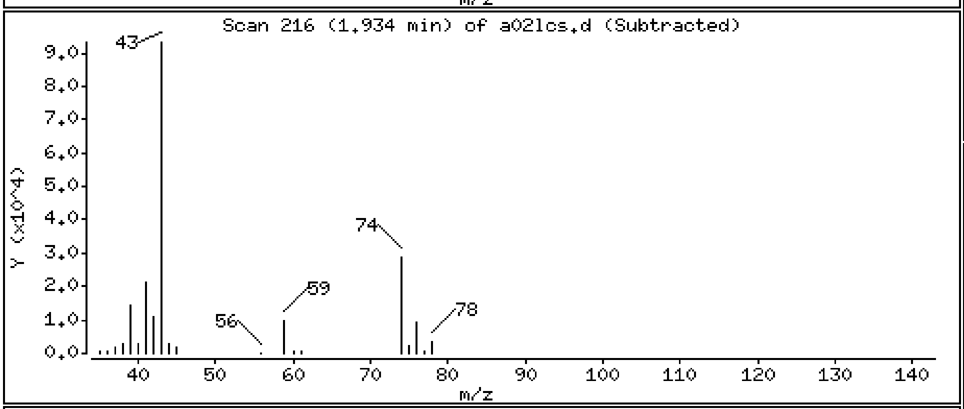
16 Methyl Acetate

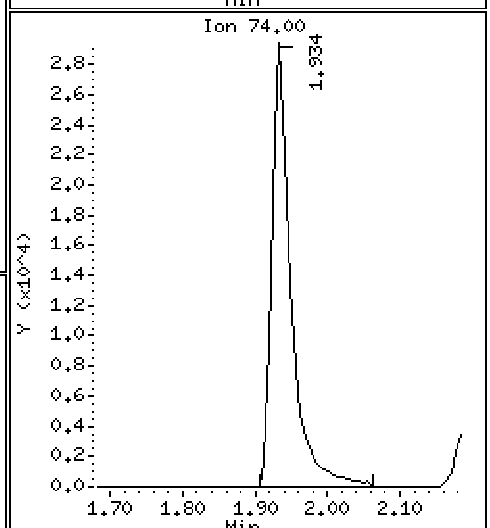
Concentration: 229 ppb

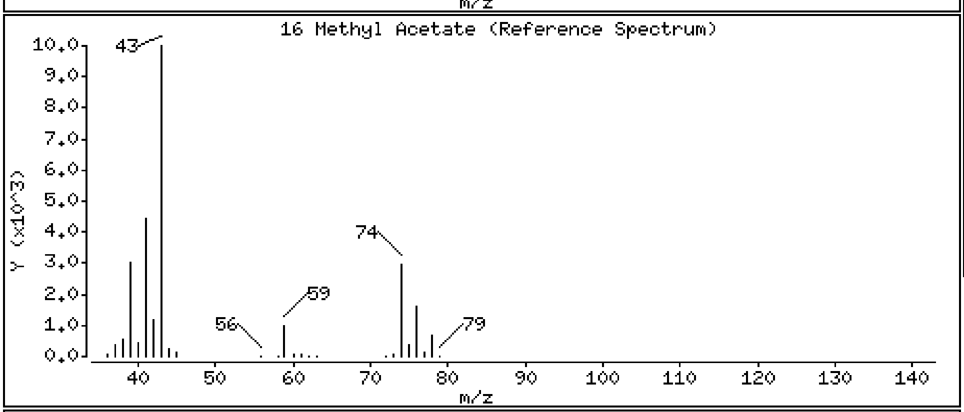
Review Code:

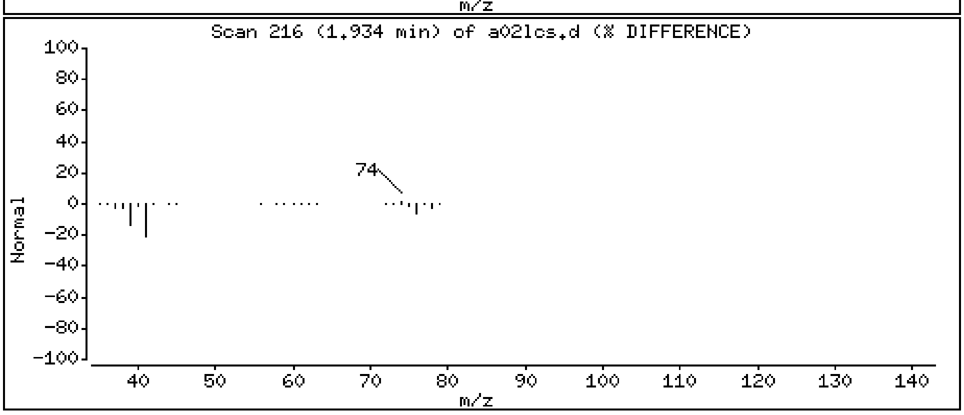












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Date : 27-JAN-2023 11:35

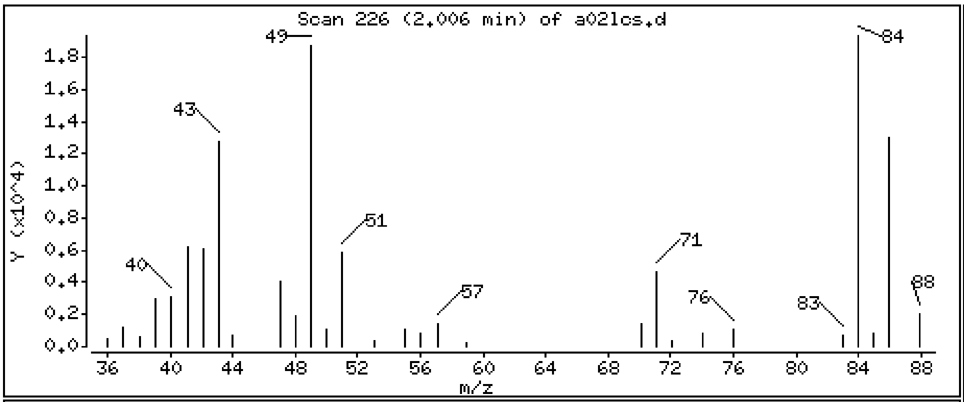
Client ID: Instrument: 50mv2a.i

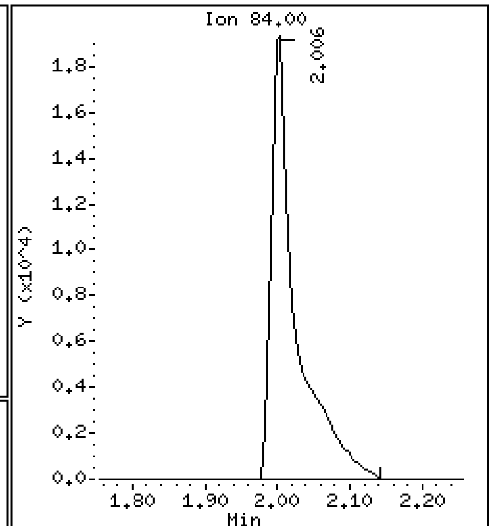
Sample Info: 3289829,336609:5

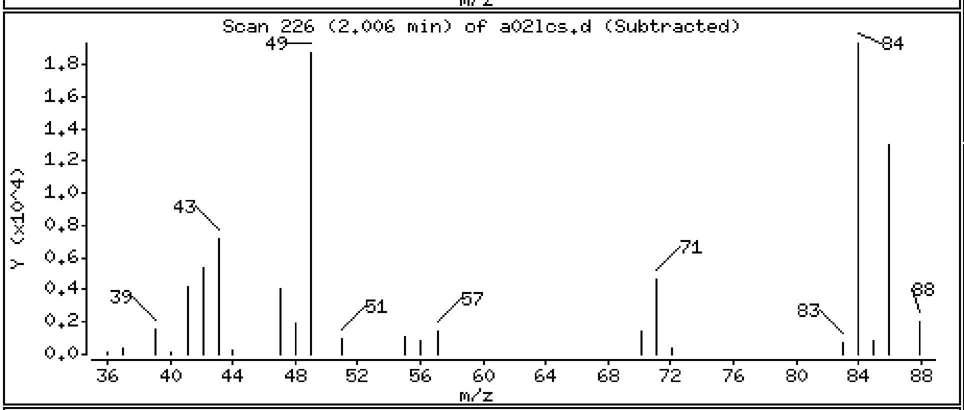
Purge Volume: 5.0 Operator: tkg

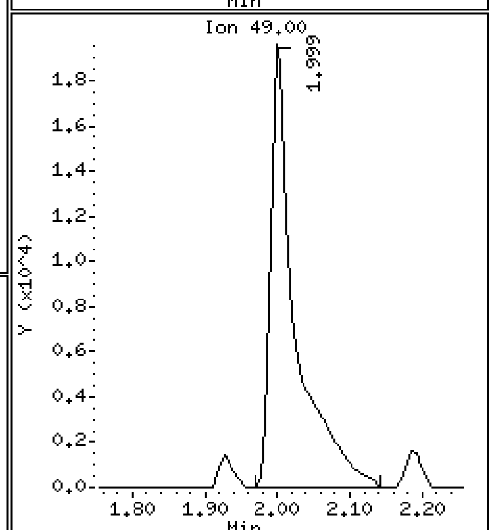
Column phase: DB-624 Column diameter: 0.18

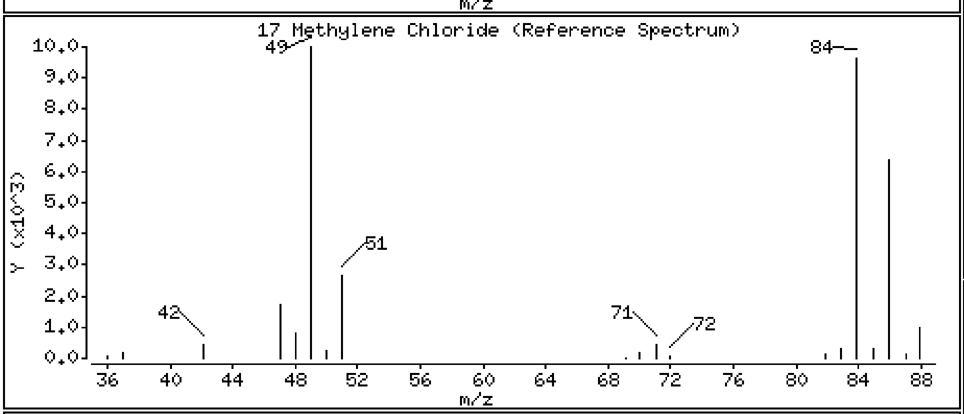
17 Methylene Chloride Concentration: 43.6 ppb Review Code:

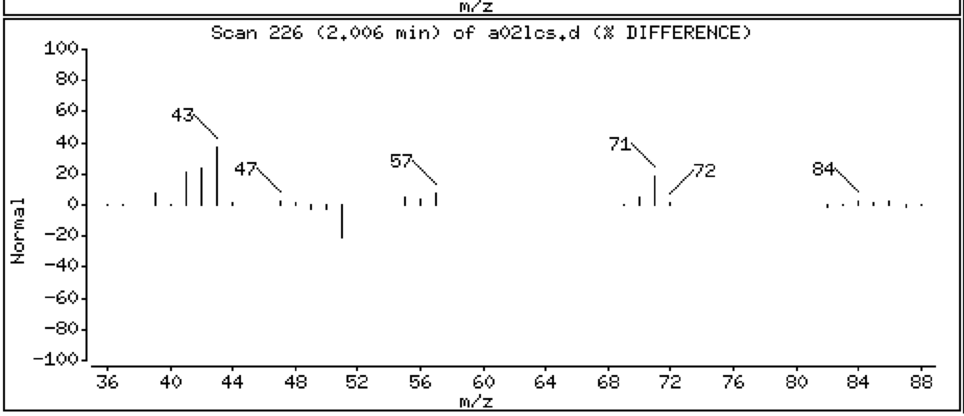


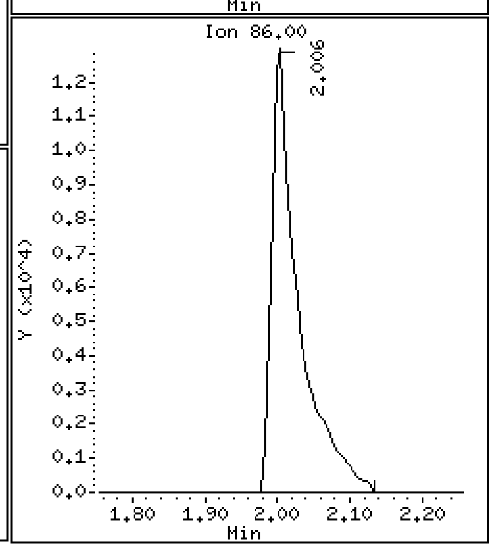












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Date : 27-JAN-2023 11:35

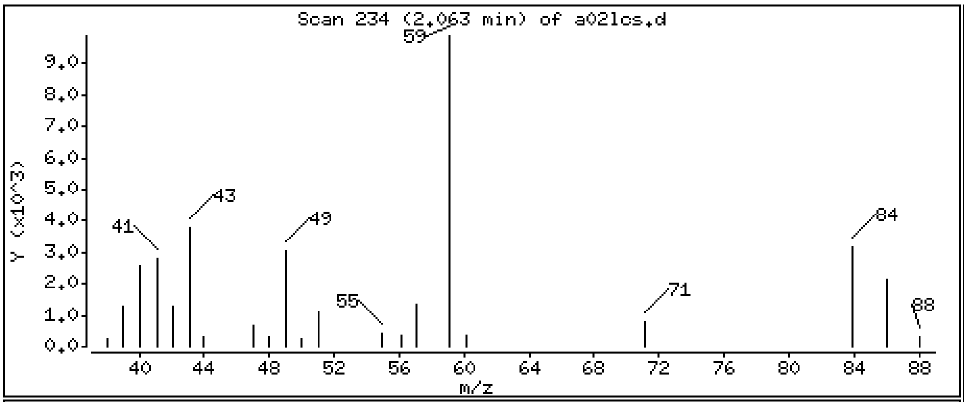
Client ID: Instrument: 50mv2a.i

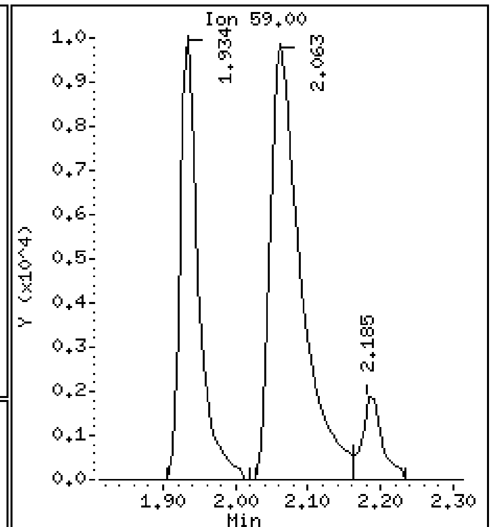
Sample Info: 3289829,336609:5

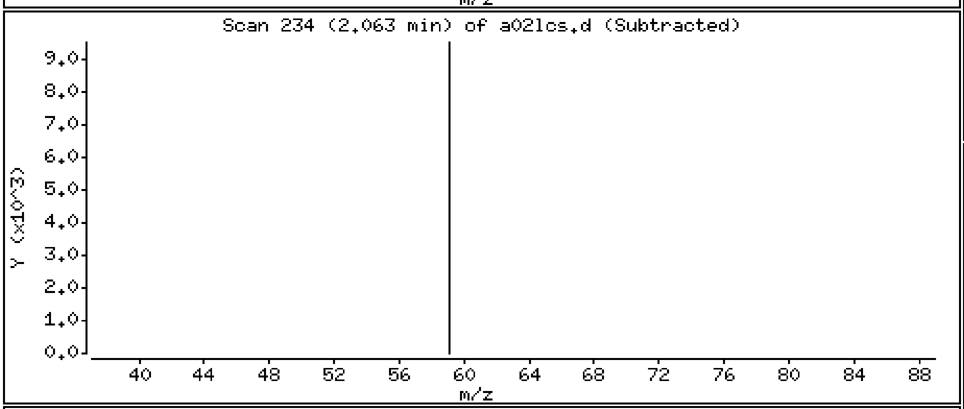
Purge Volume: 5.0 Operator: tkg

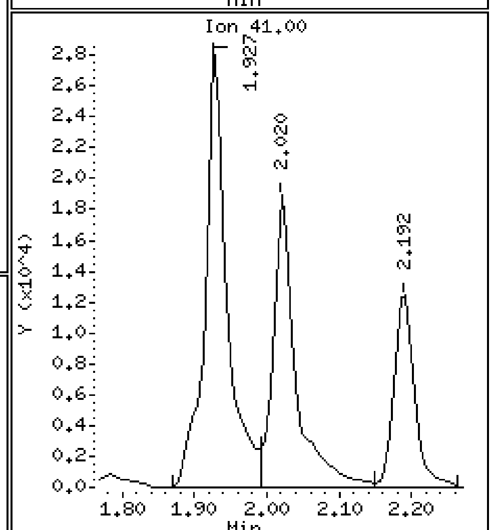
Column phase: DB-624 Column diameter: 0.18

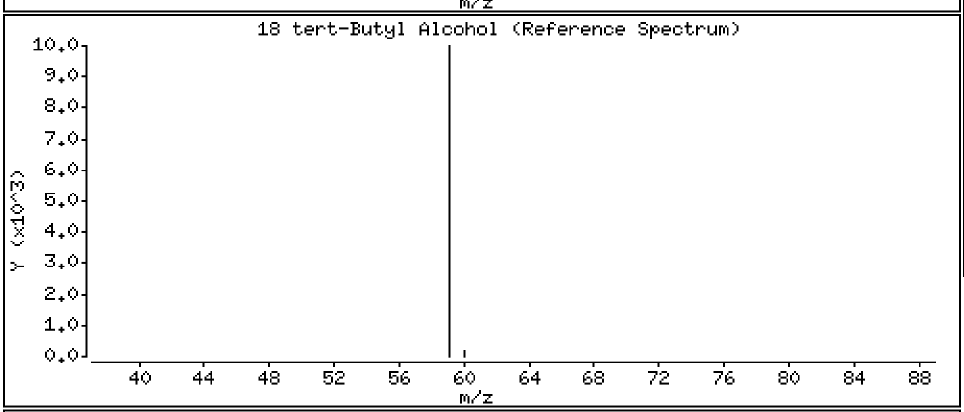
18 tert-Butyl Alcohol Concentration: 255 ppb Review Code:

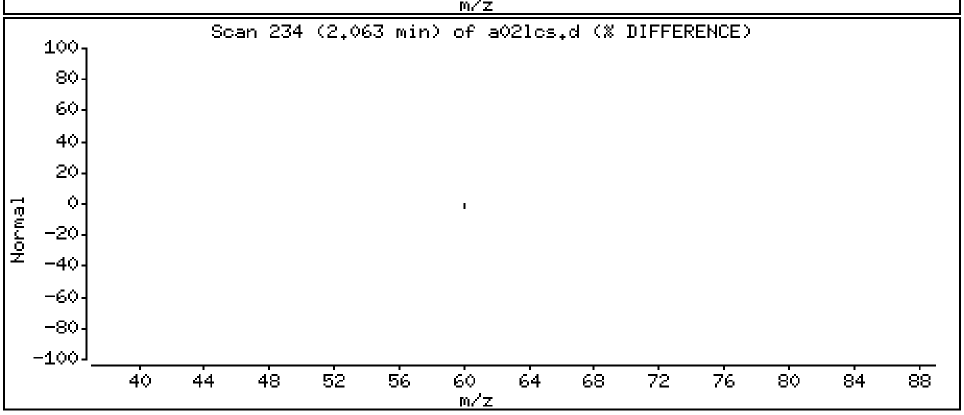












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

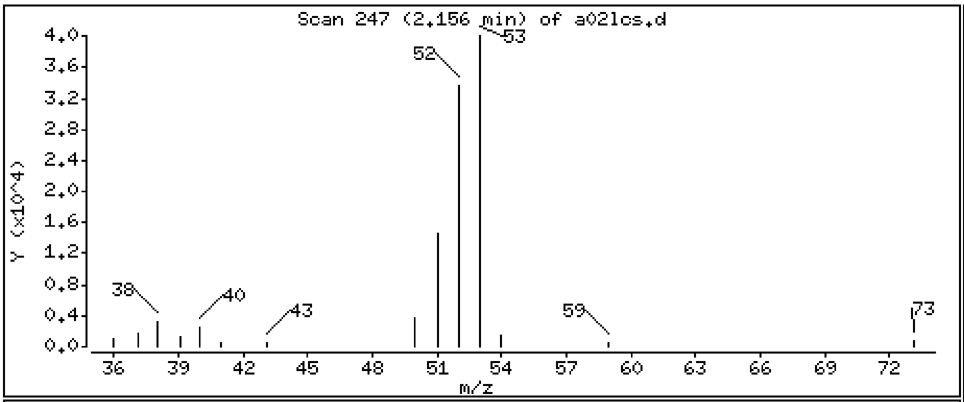
Column phase: DB-624

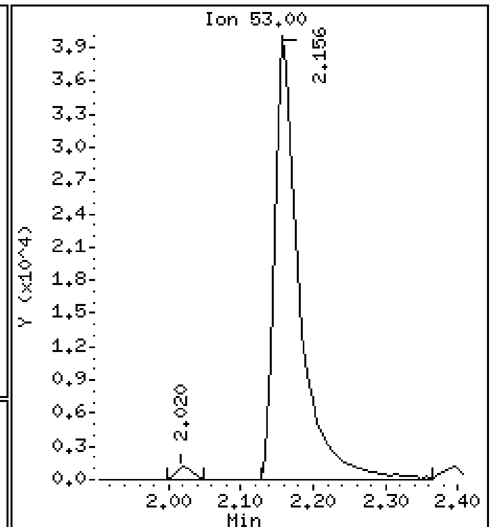
Column diameter: 0.18

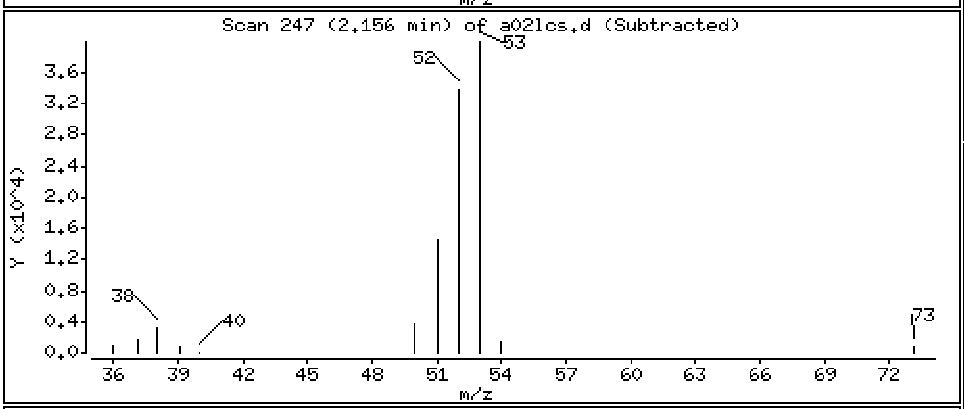
19 Acrylonitrile

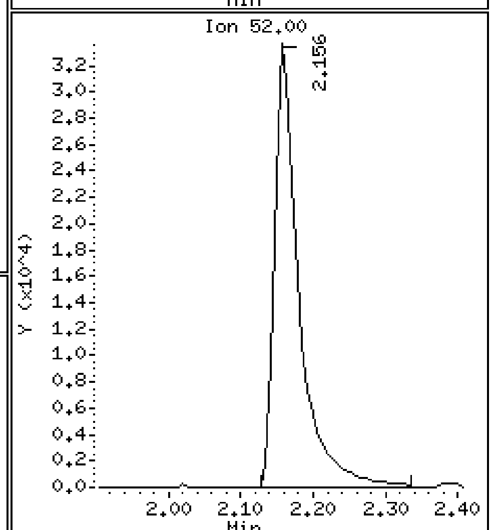
Concentration: 258 ppb

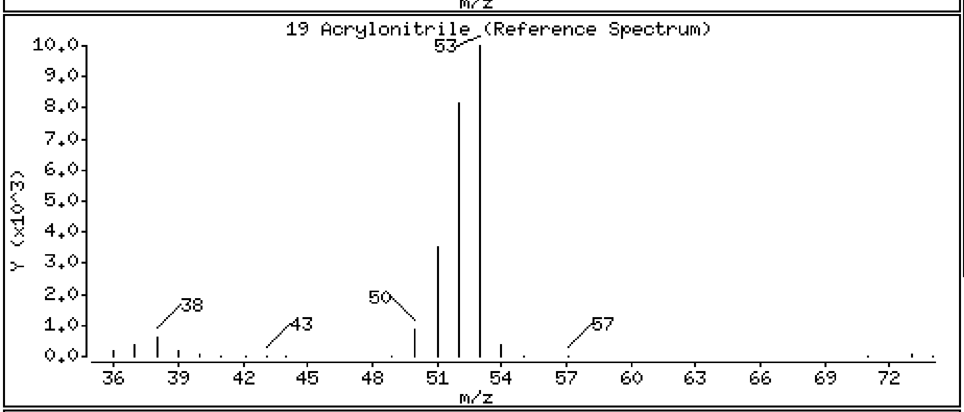
Review Code:

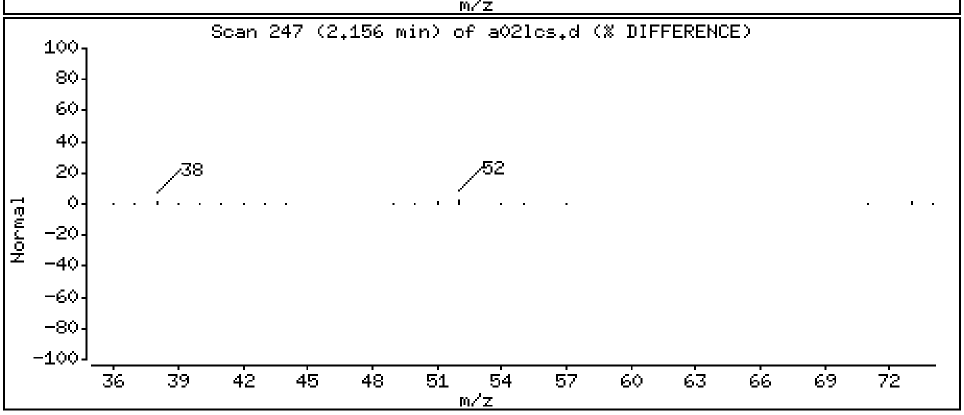












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

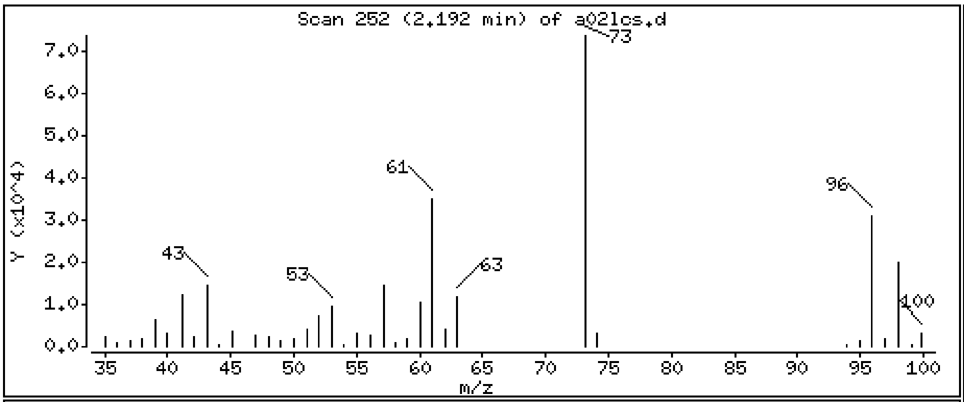
Column phase: DB-624

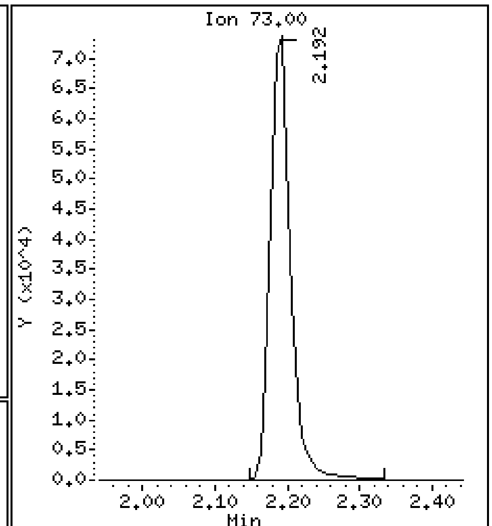
Column diameter: 0.18

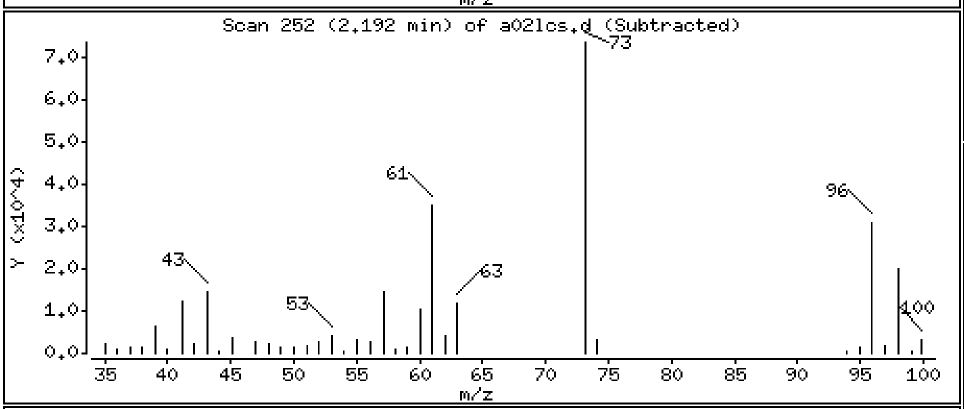
20 Methyl-tert-butyl ether

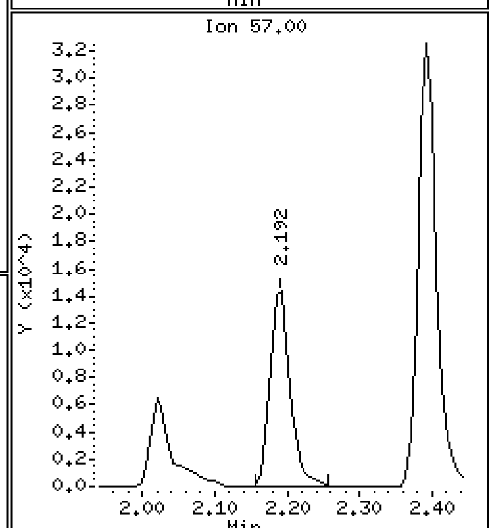
Concentration: 52.7 ppb

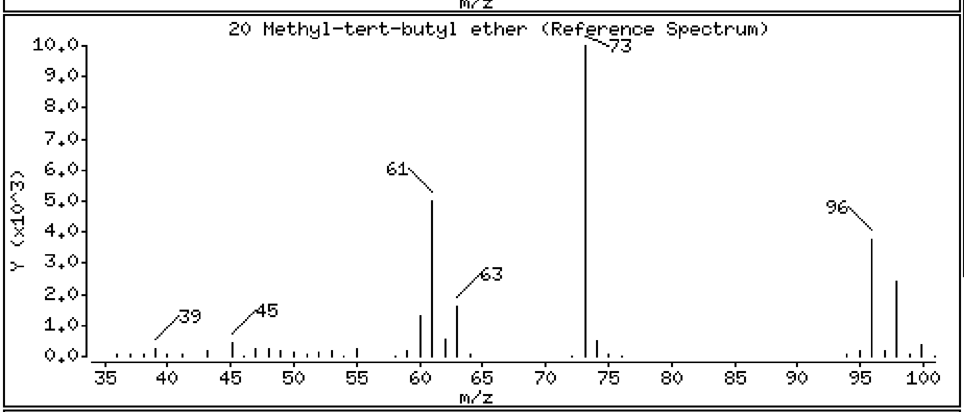
Review Code:

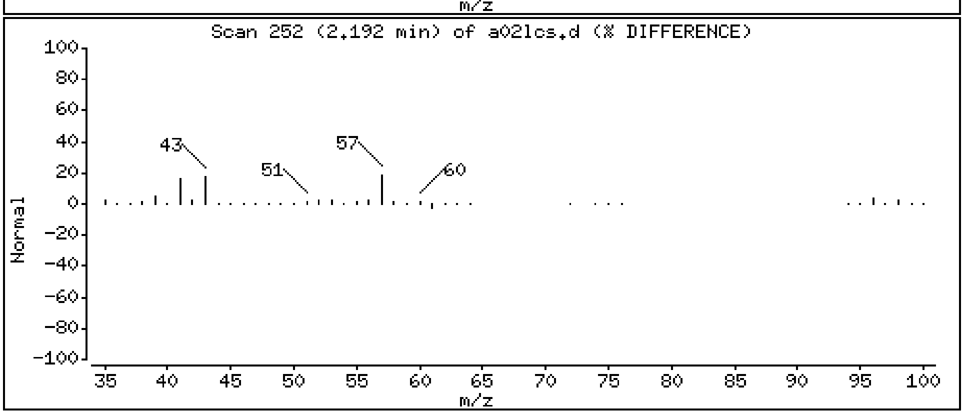












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

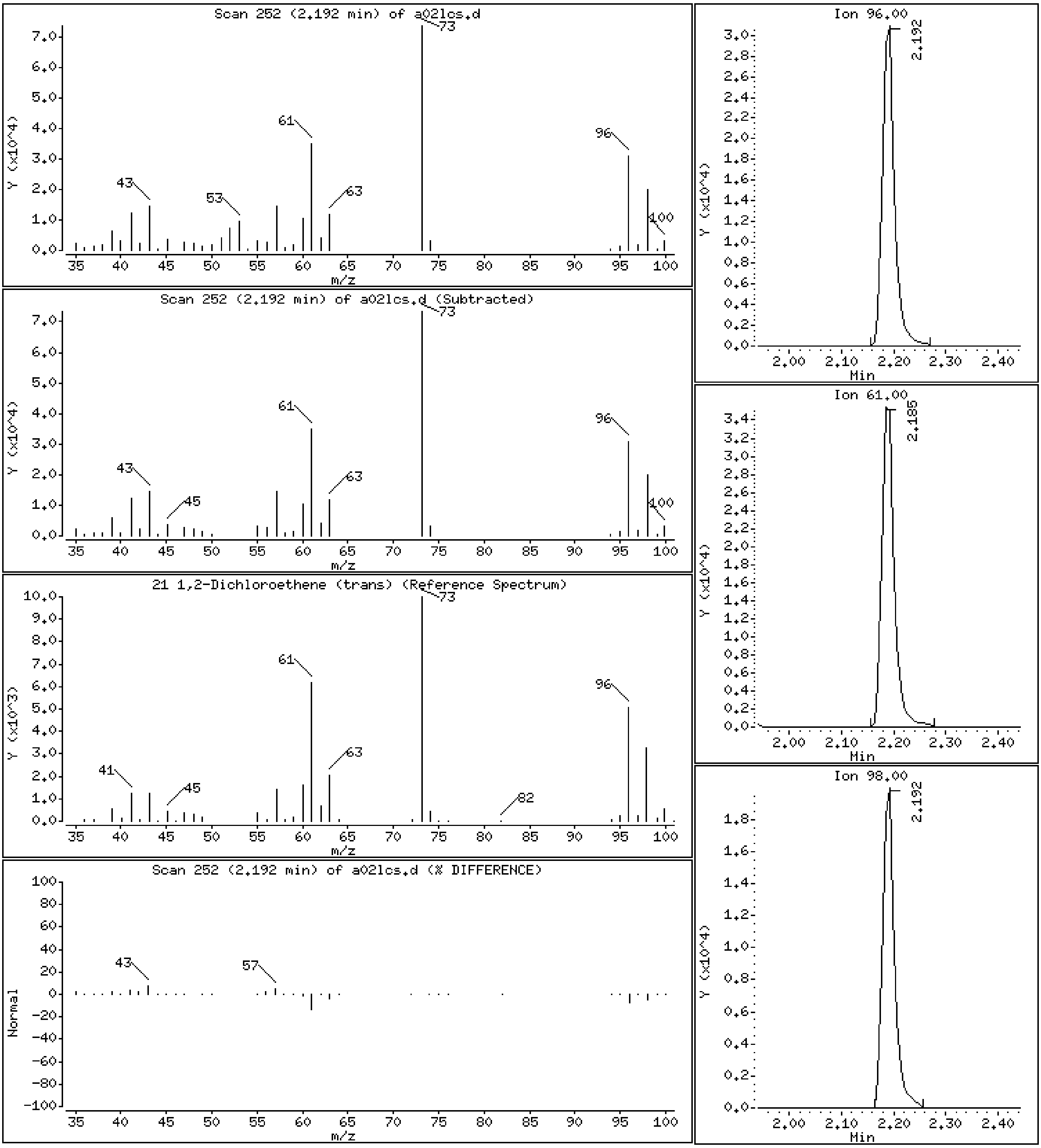
Column phase: DB-624

Column diameter: 0.18

21 1,2-Dichloroethene (trans)

Concentration: 51.9 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

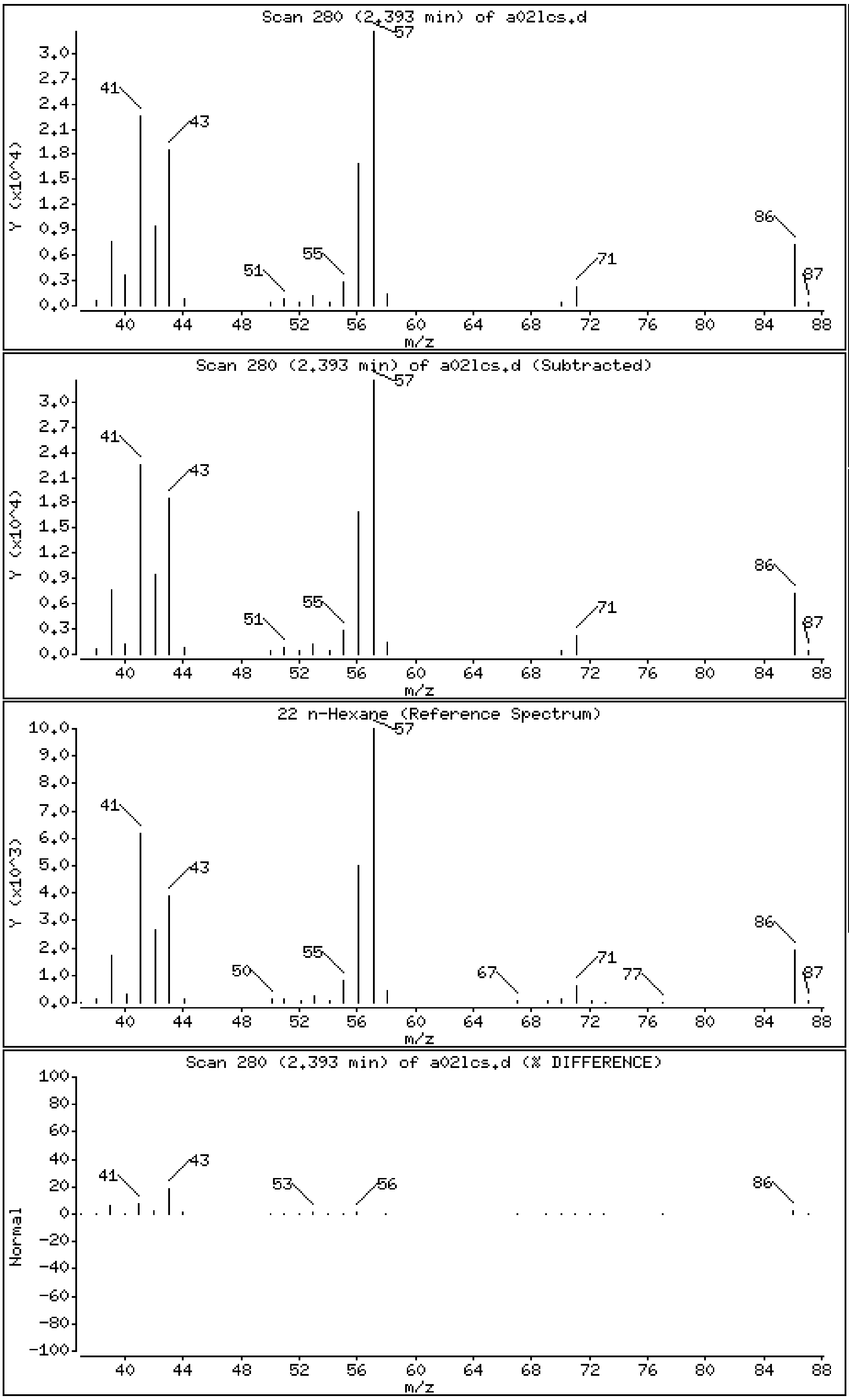
Column phase: DB-624

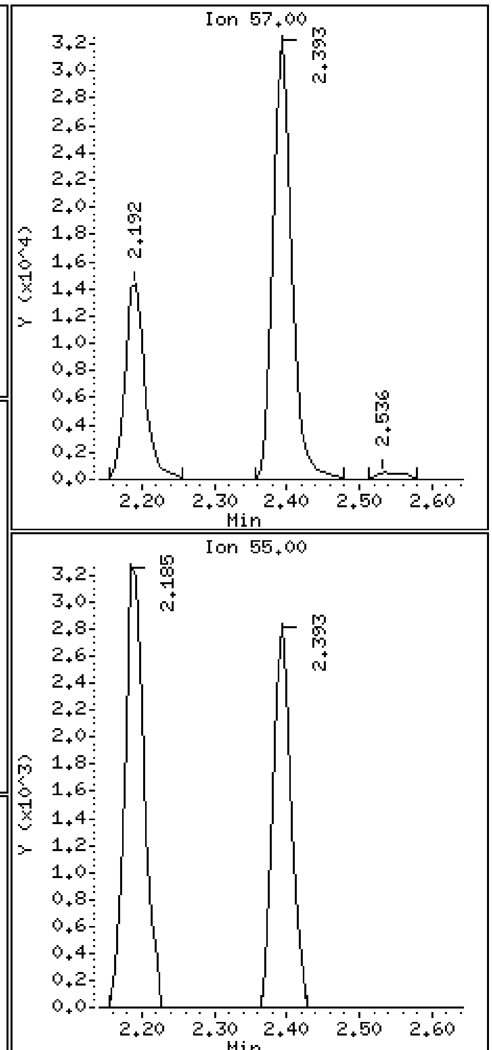
Column diameter: 0.18

22 n-Hexane

Concentration: 48.5 ppb

Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

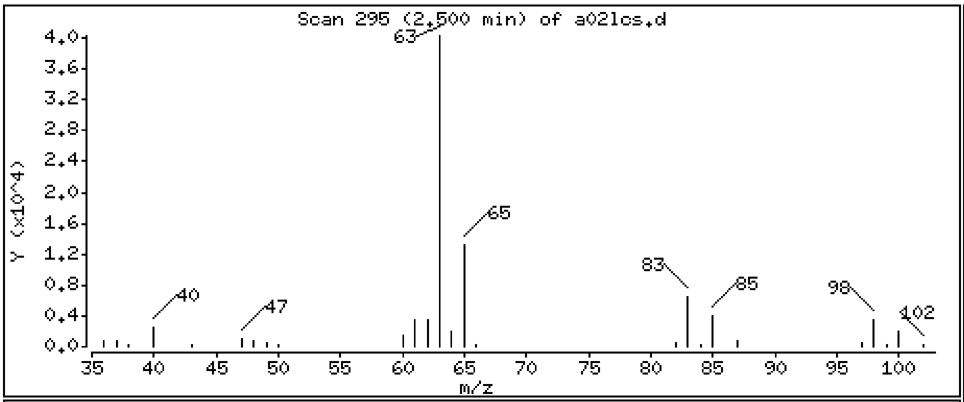
Column phase: DB-624

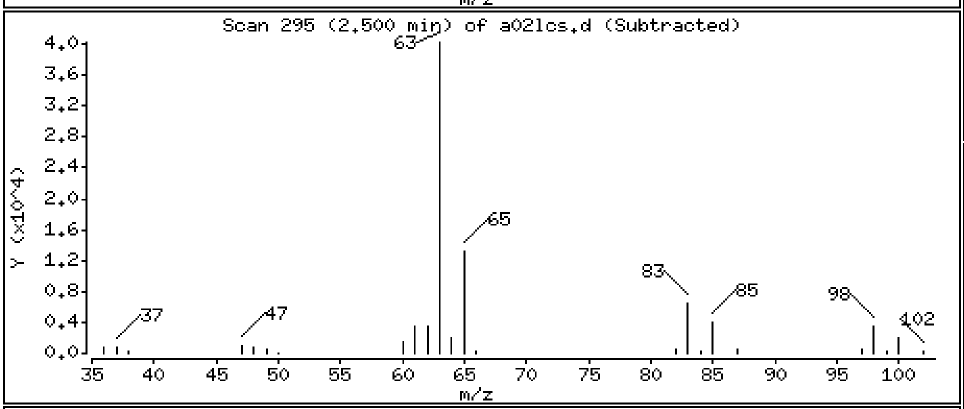
Column diameter: 0.18

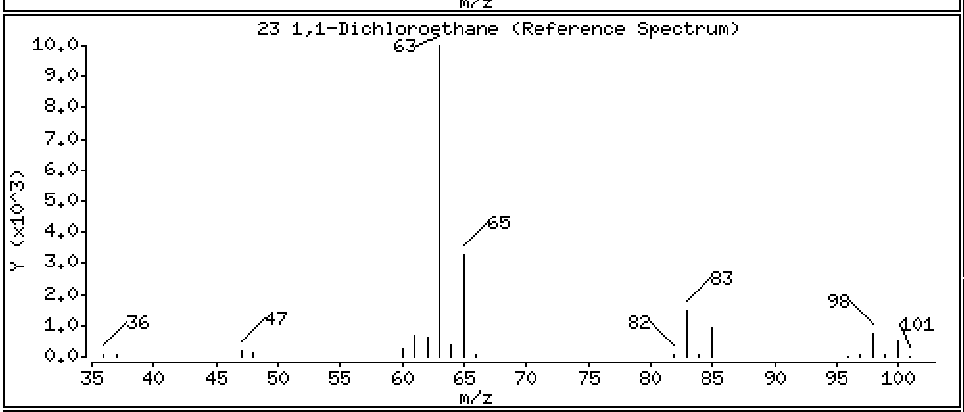
23 1,1-Dichloroethane

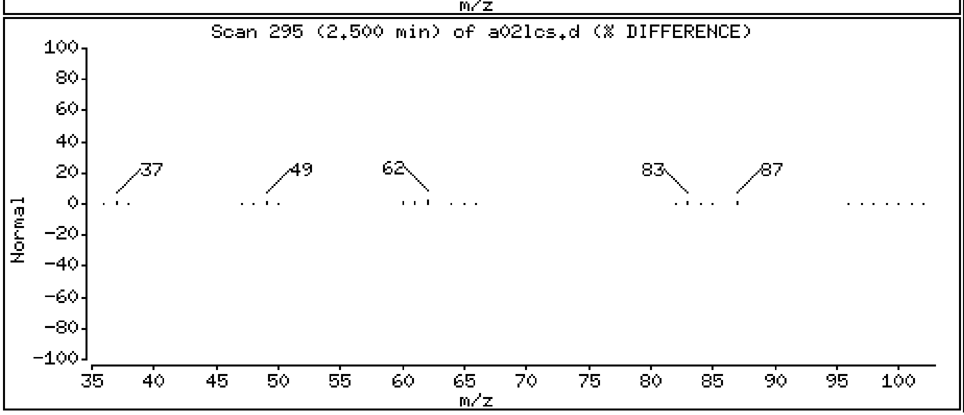
Concentration: 52.1 ppb

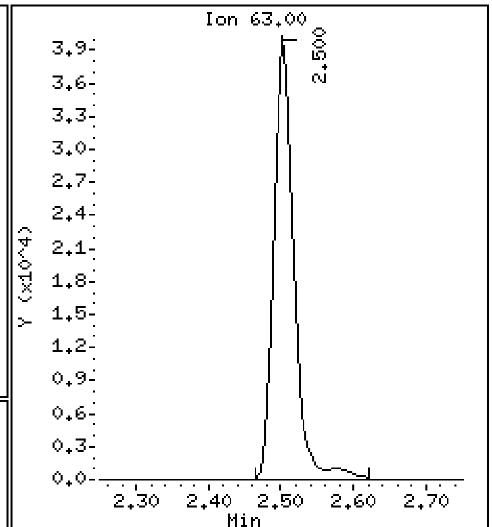
Review Code:

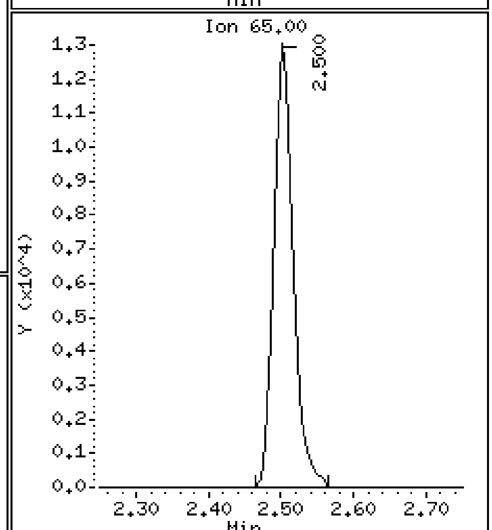


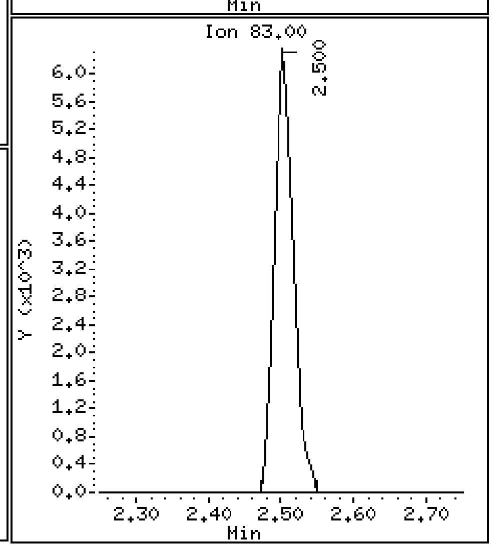












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

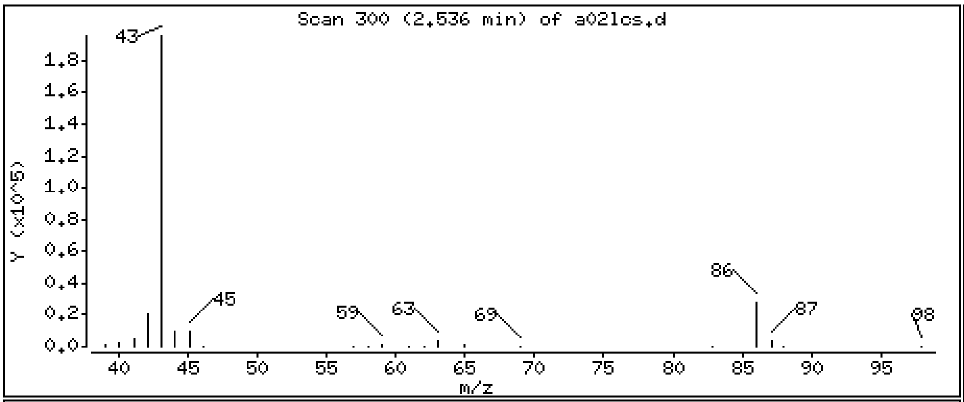
Column phase: DB-624

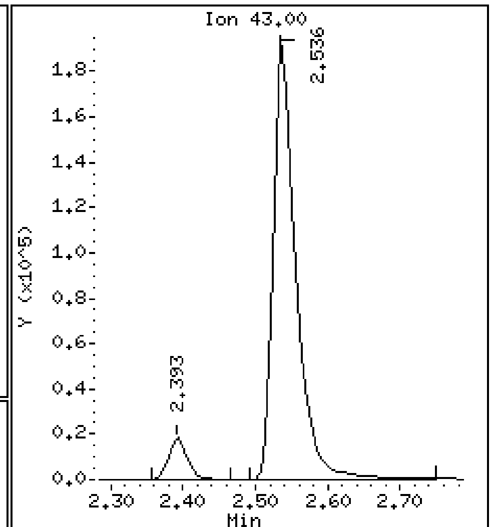
Column diameter: 0.18

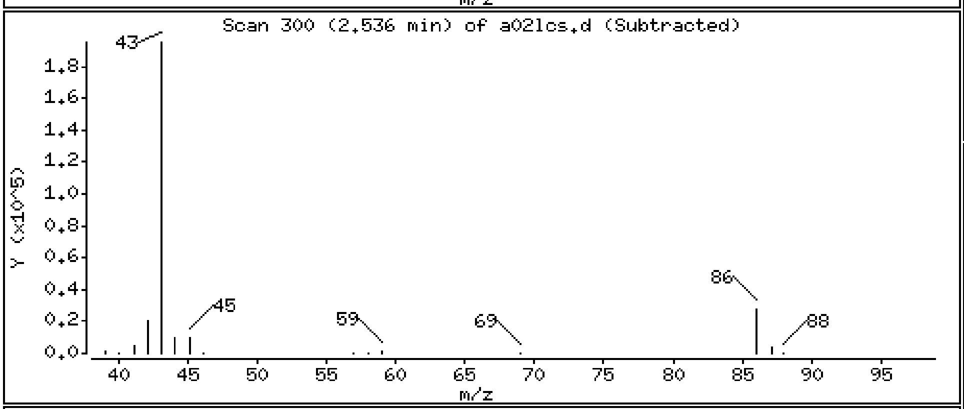
24 Vinyl Acetate

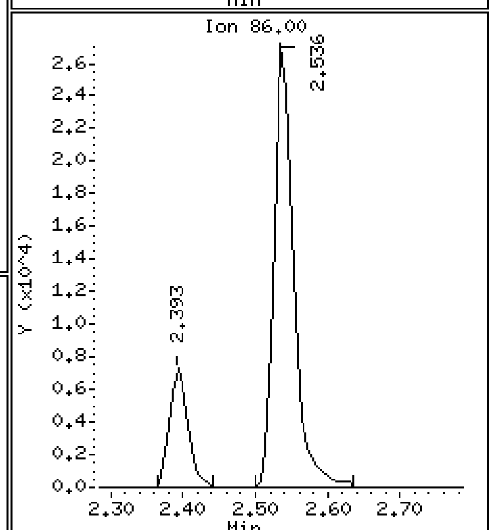
Concentration: 219 ppb

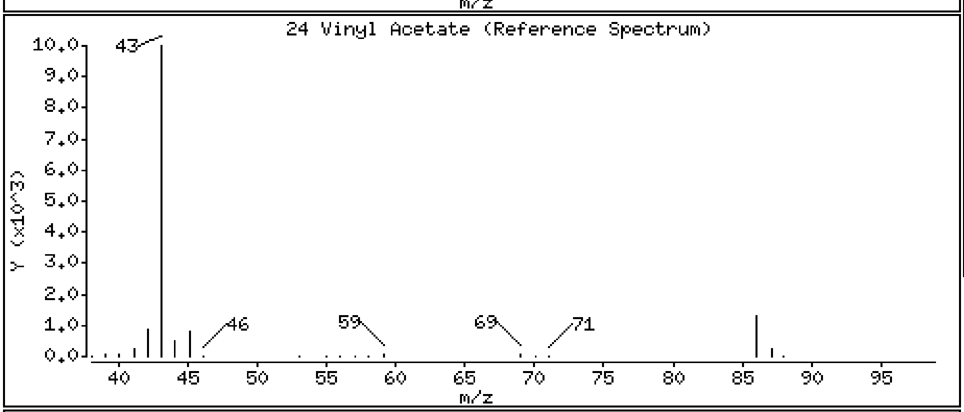
Review Code:

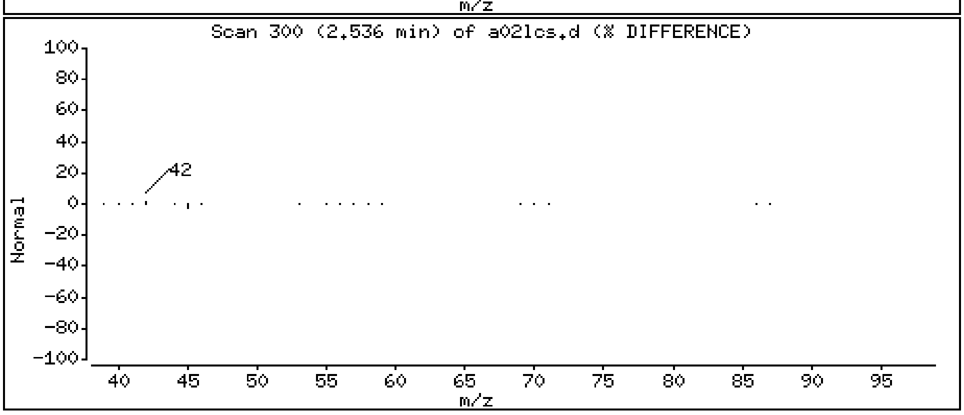












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

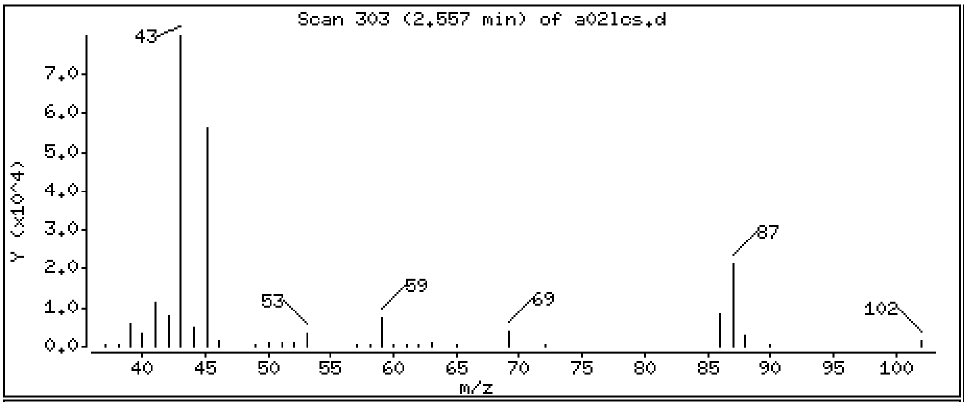
Column phase: DB-624

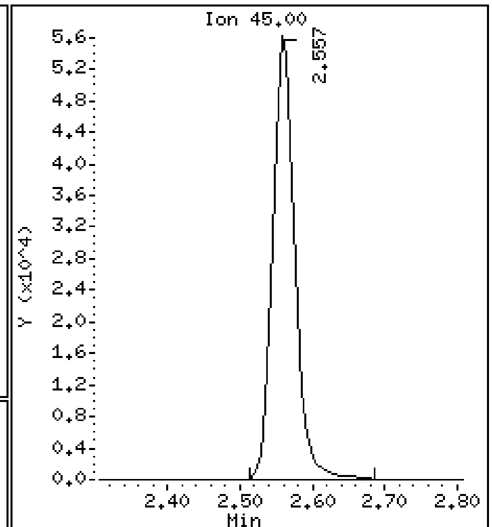
Column diameter: 0.18

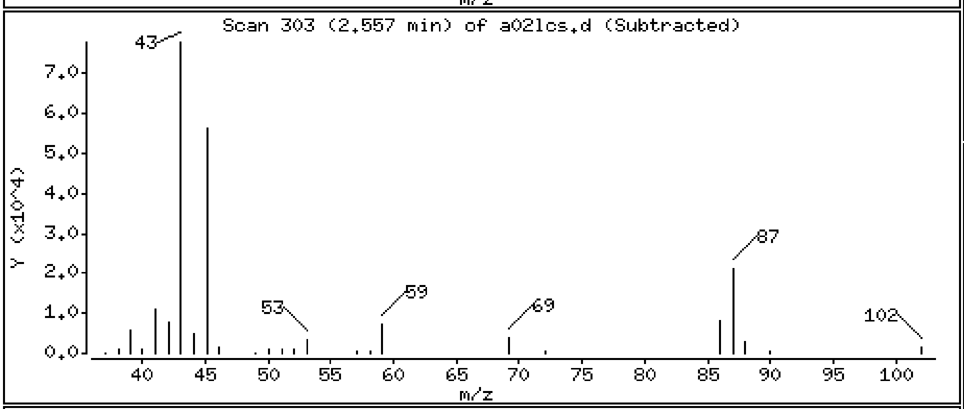
25 Diisopropyl ether

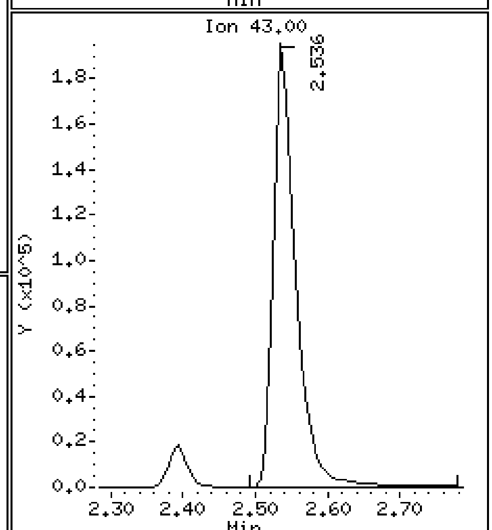
Concentration: 49.7 ppb

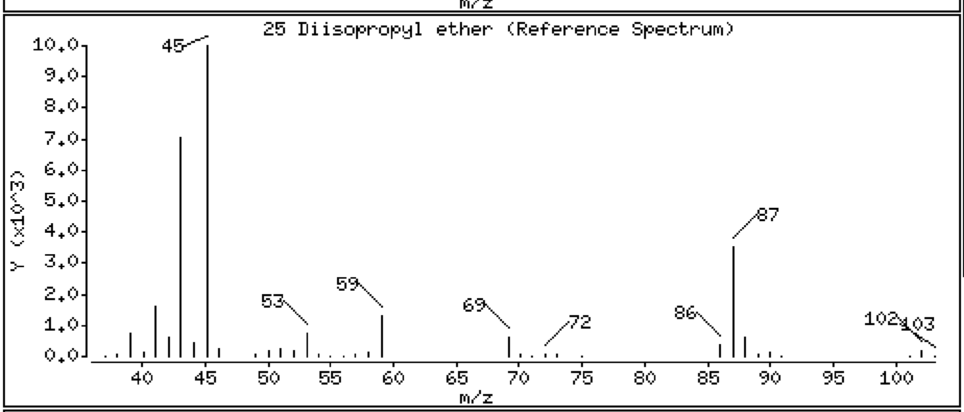
Review Code:

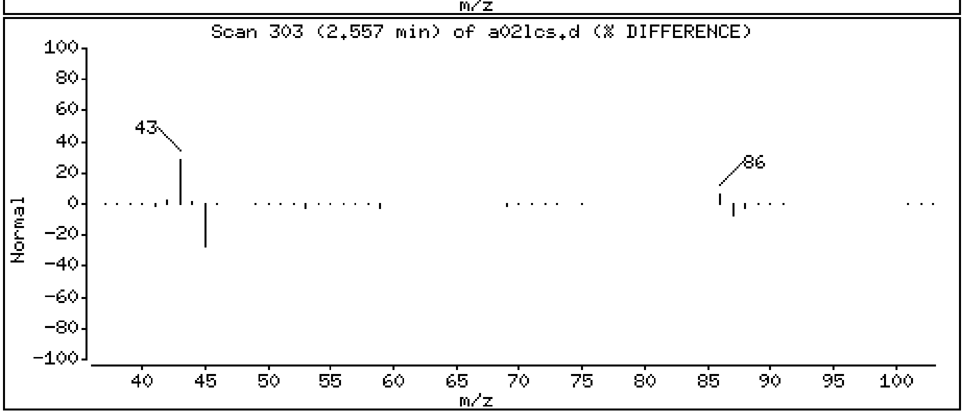












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

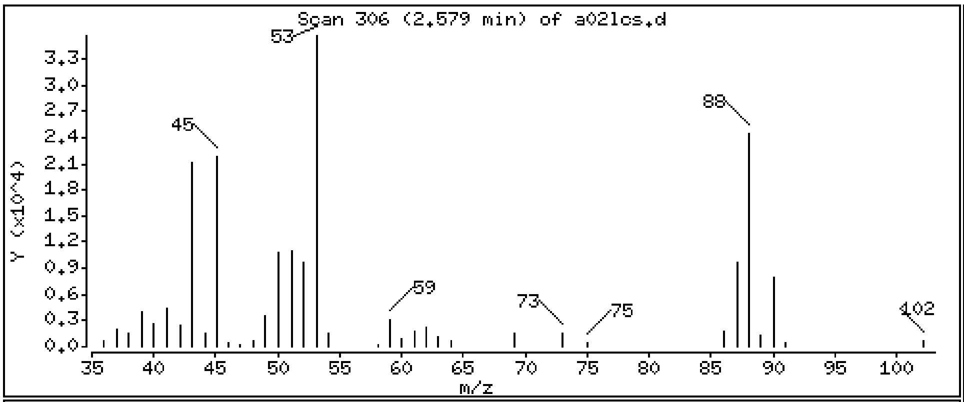
Column phase: DB-624

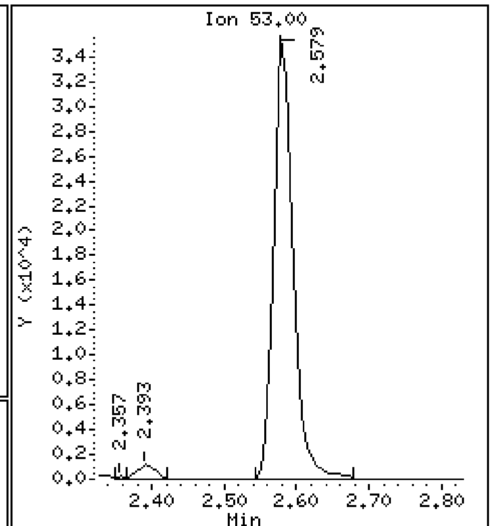
Column diameter: 0.18

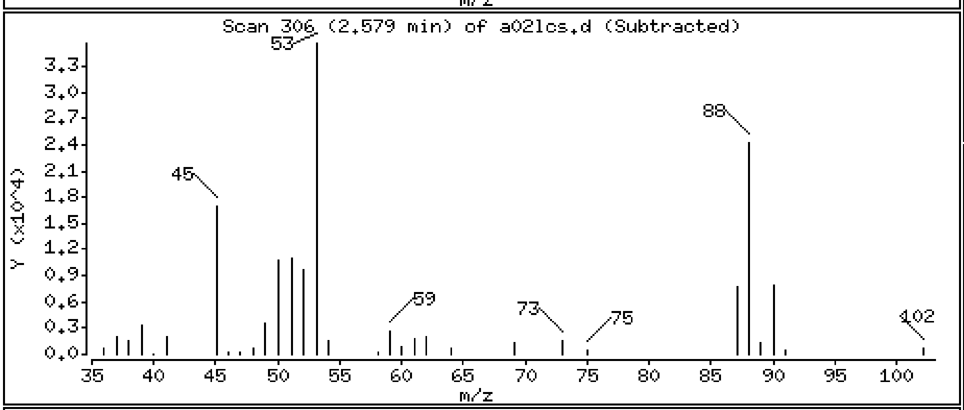
26 chloroprene

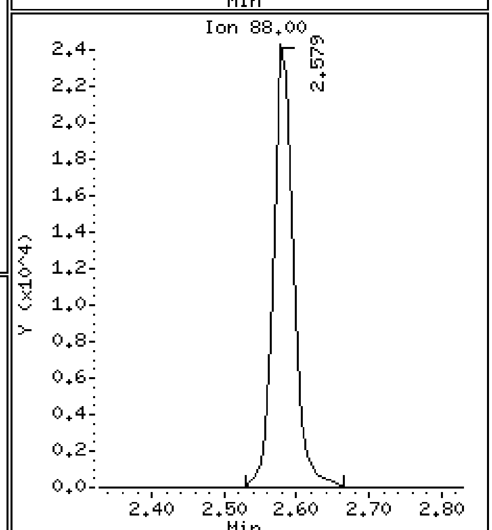
Concentration: 51.6 ppb

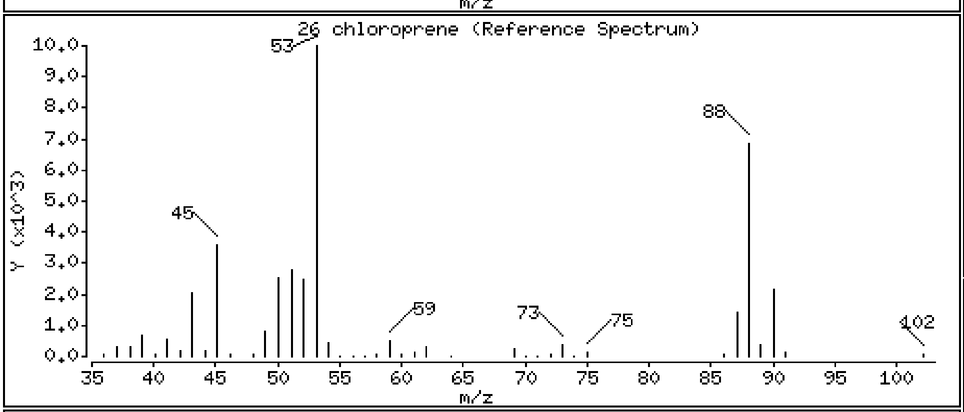
Review Code:

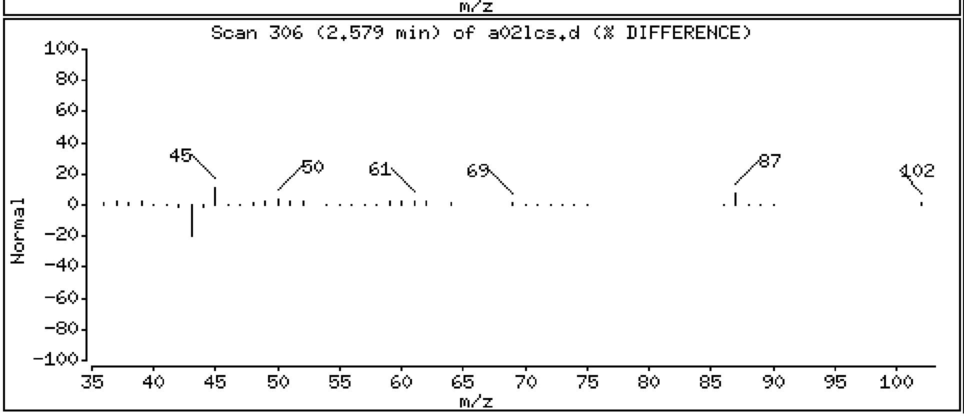


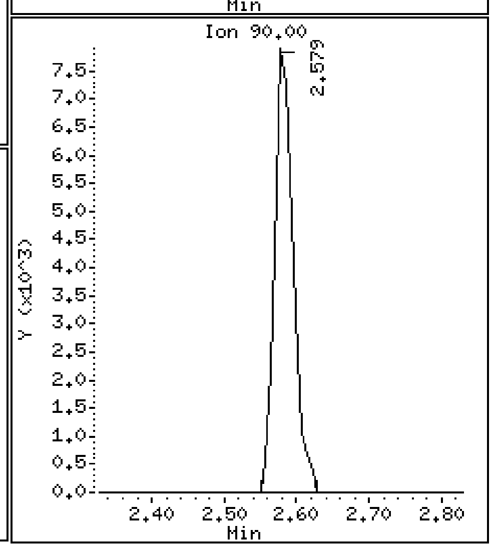












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Date : 27-JAN-2023 11:35

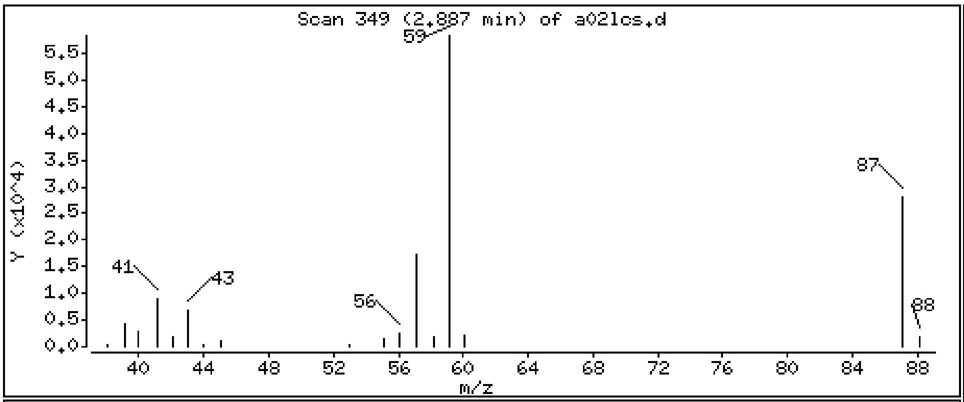
Client ID: Instrument: 50mv2a.i

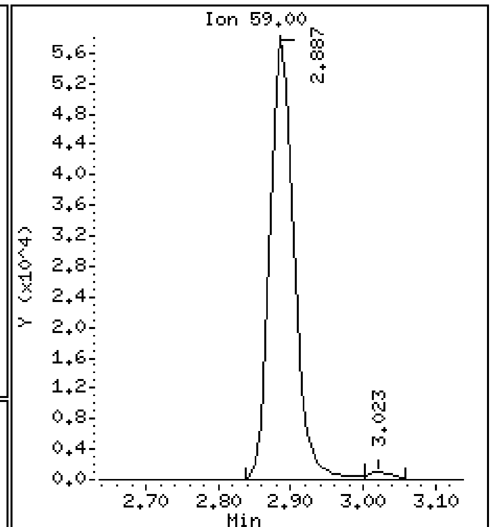
Sample Info: 3289829,336609;5

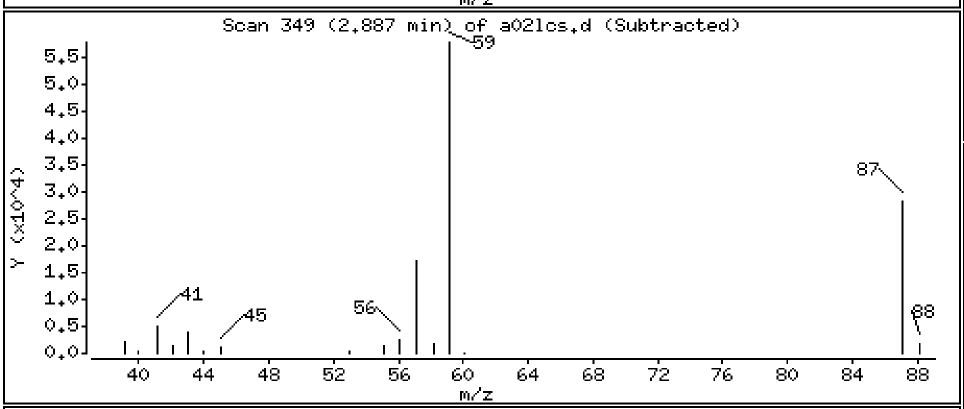
Purge Volume: 5.0 Operator: tkg

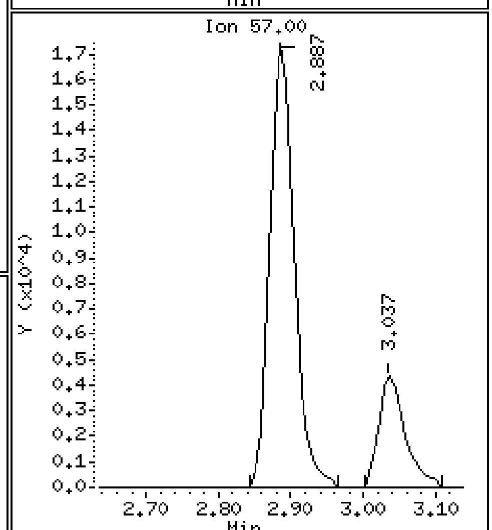
Column phase: DB-624 Column diameter: 0.18

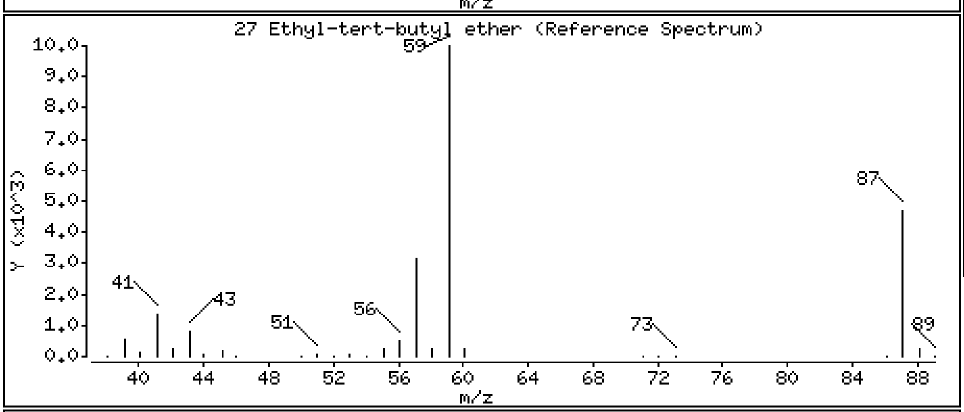
27 Ethyl-tert-butyl ether Concentration: 52.2 ppb Review Code:

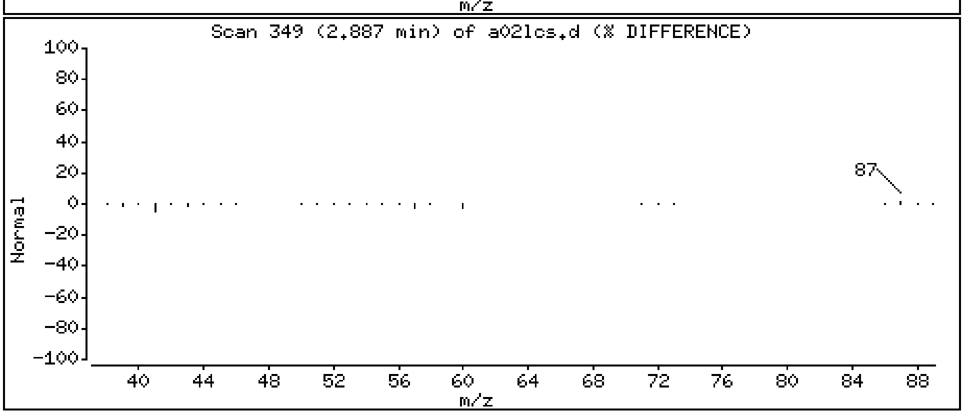












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

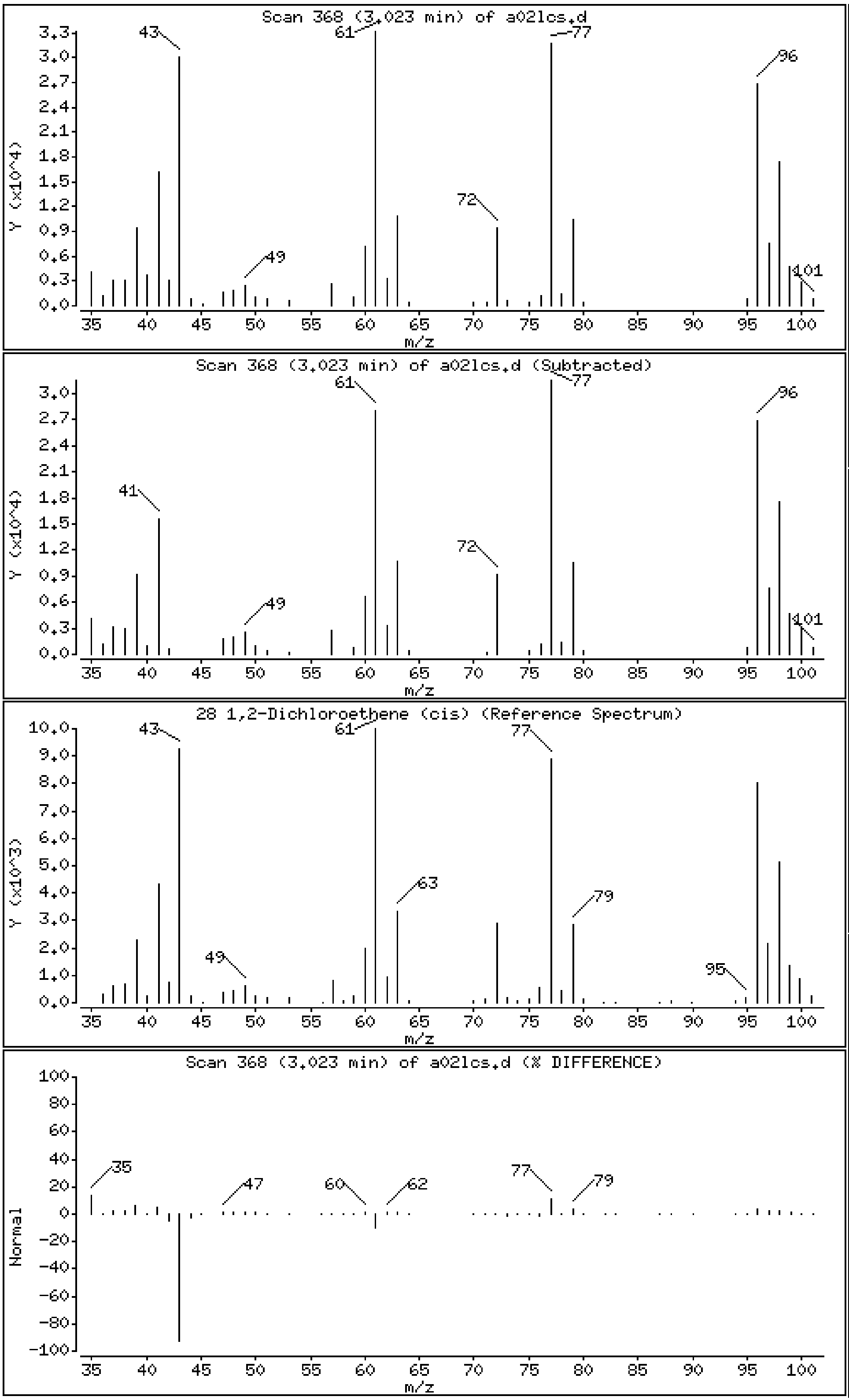
Column phase: DB-624

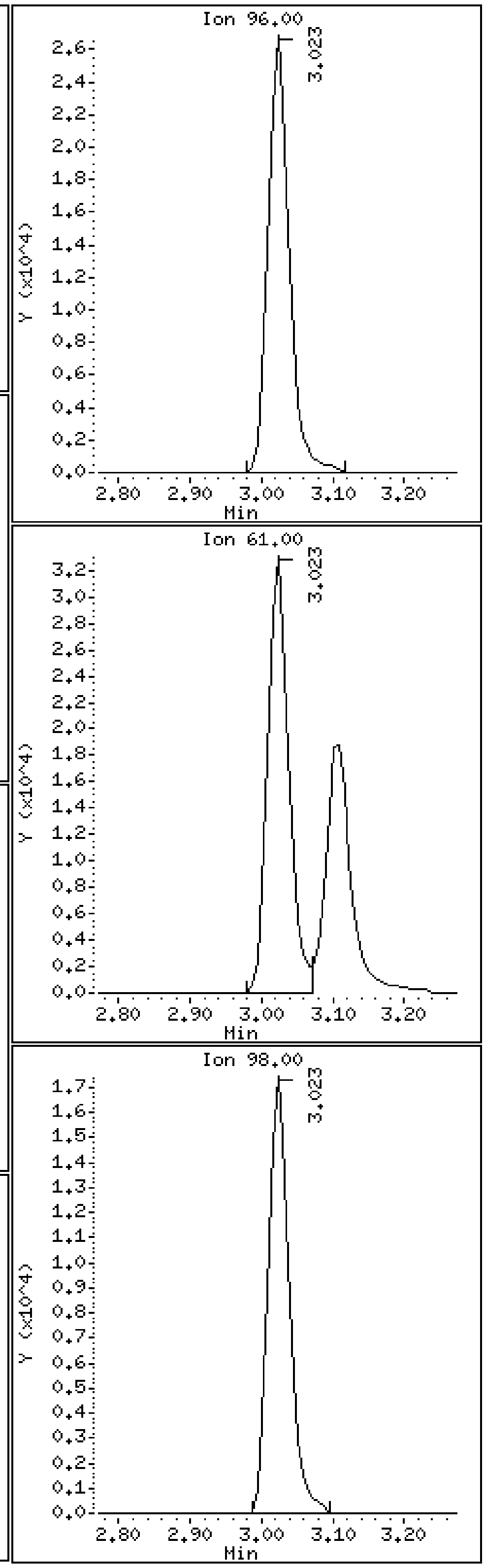
Column diameter: 0.18

28 1,2-Dichloroethene (cis)

Concentration: 52.3 ppb

Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

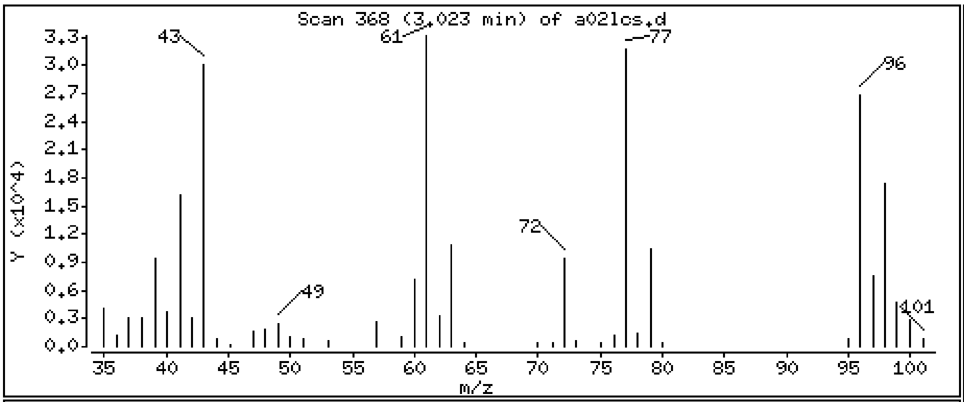
Column phase: DB-624

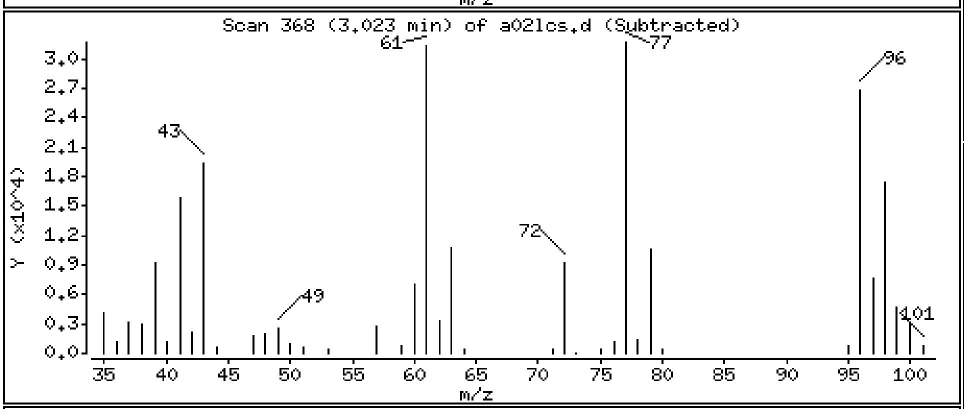
Column diameter: 0.18

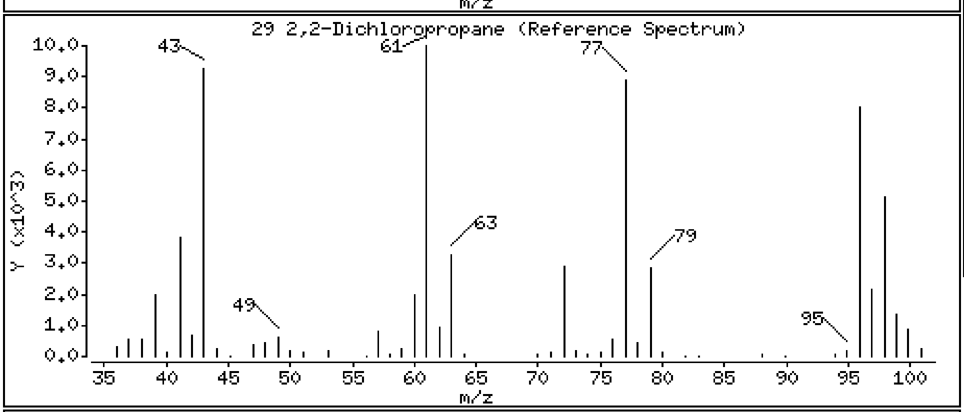
29 2,2-Dichloropropane

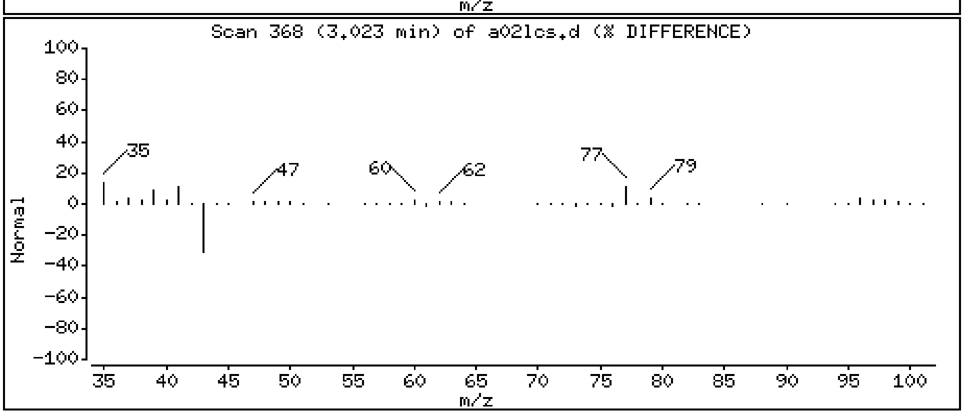
Concentration: 58.2 ppb

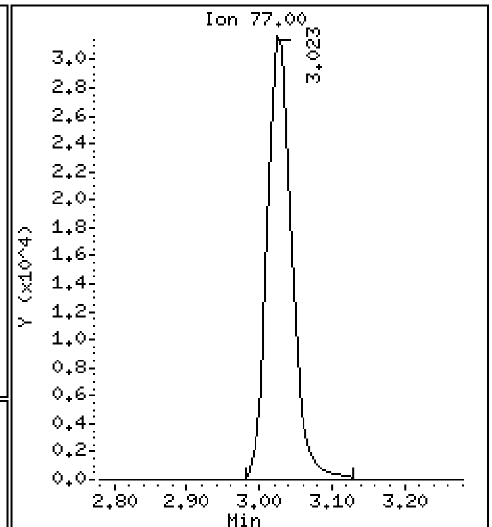
Review Code:

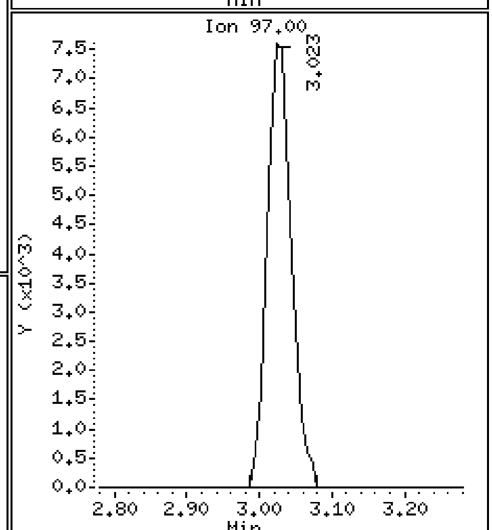












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Date : 27-JAN-2023 11:35

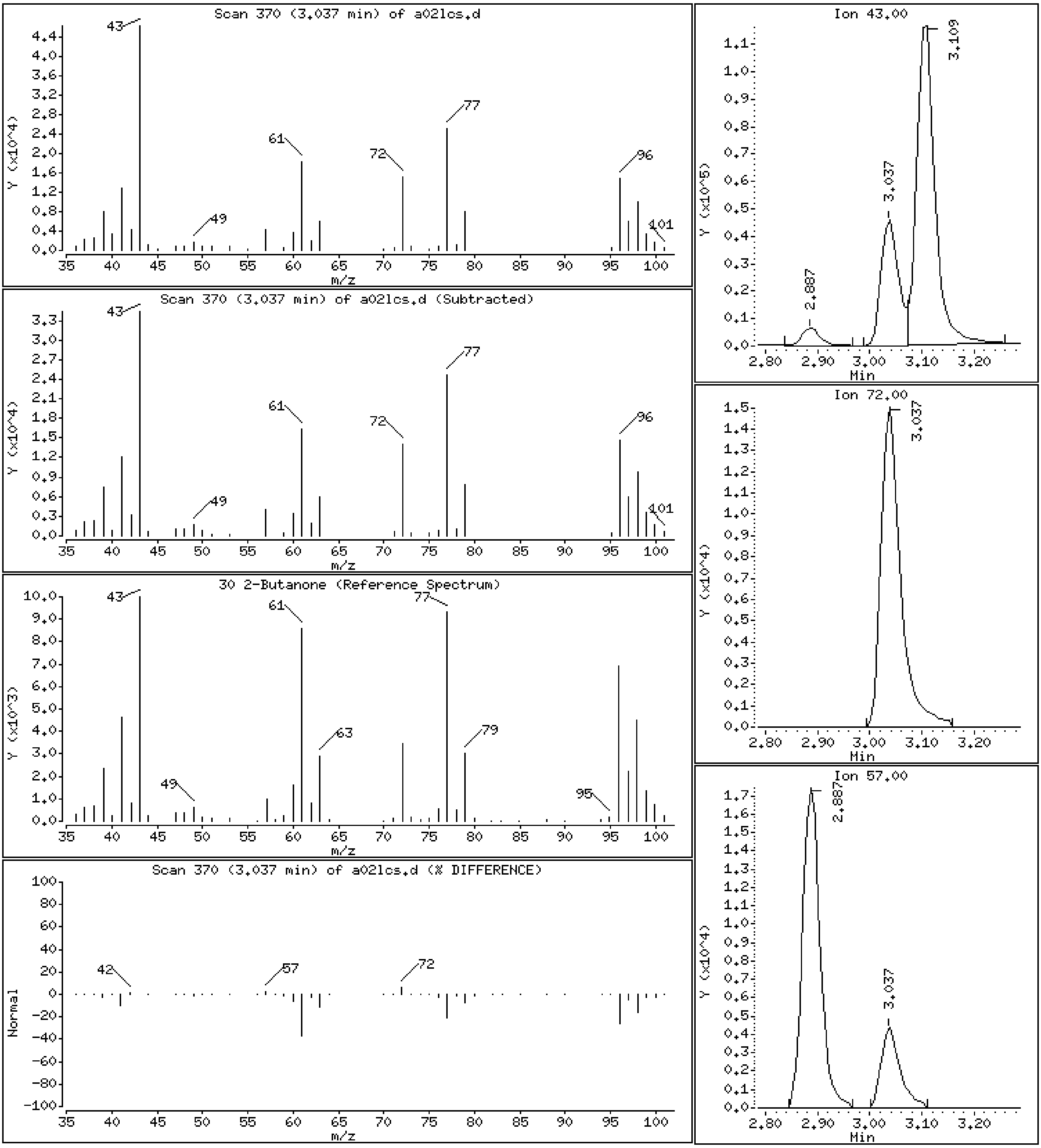
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

30 2-Butanone Concentration: 251 ppb Review Code:



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Date : 27-JAN-2023 11:35

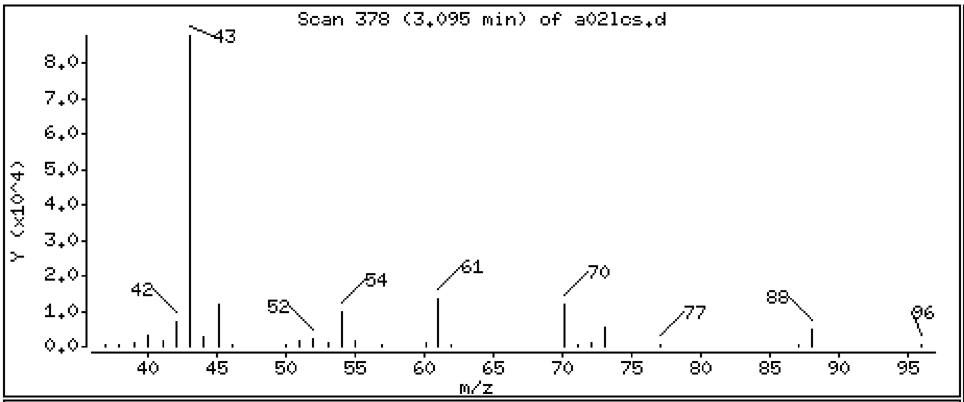
Client ID: Instrument: 50mv2a.i

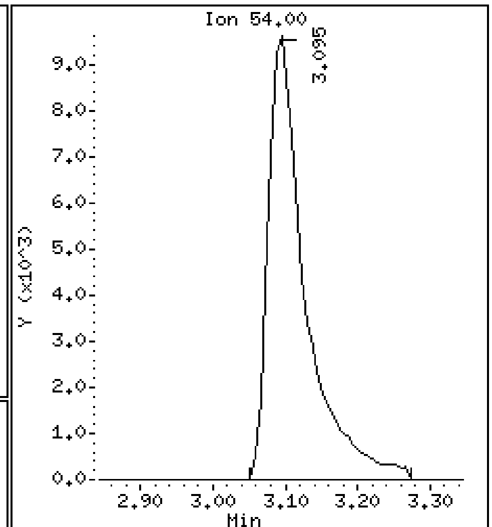
Sample Info: 3289829,336609:5

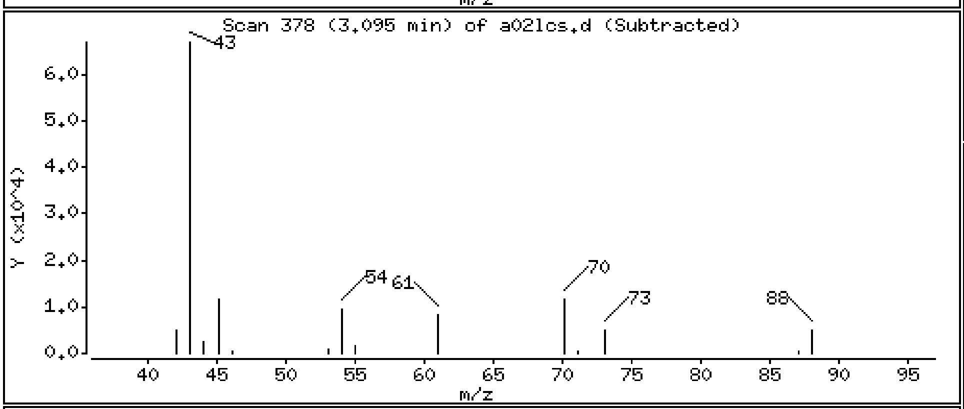
Purge Volume: 5.0 Operator: tkg

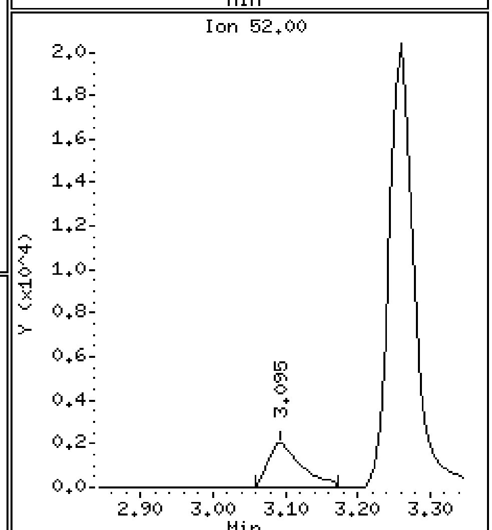
Column phase: DB-624 Column diameter: 0.18

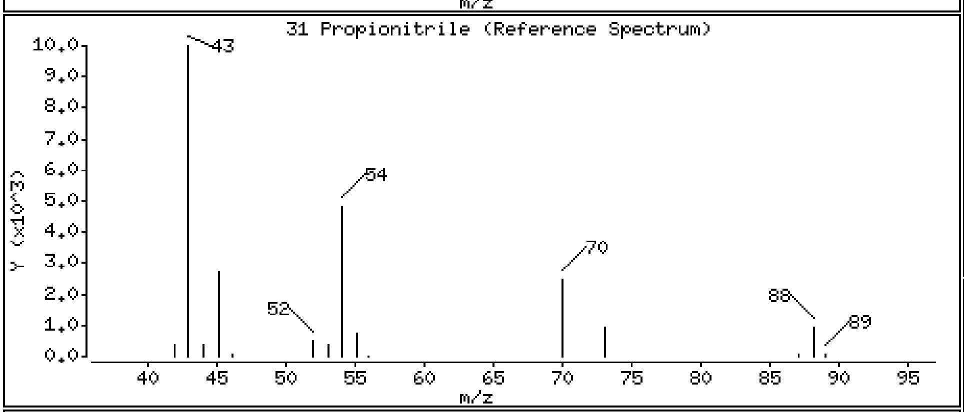
31 Propionitrile Concentration: 291 ppb Review Code:

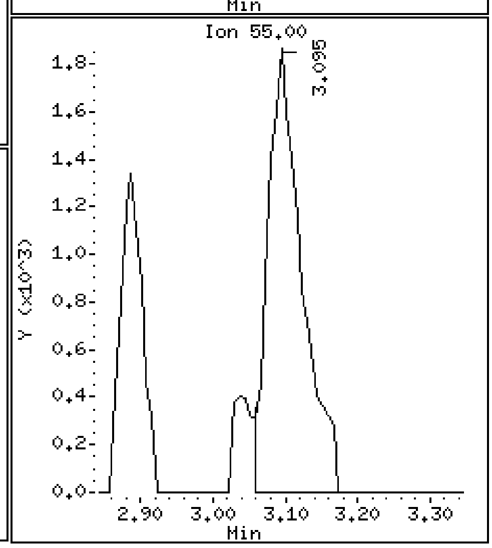


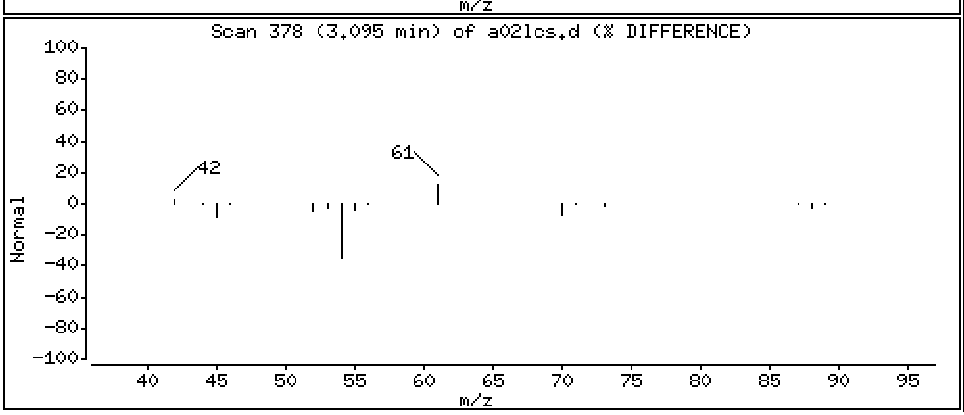












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Date : 27-JAN-2023 11:35

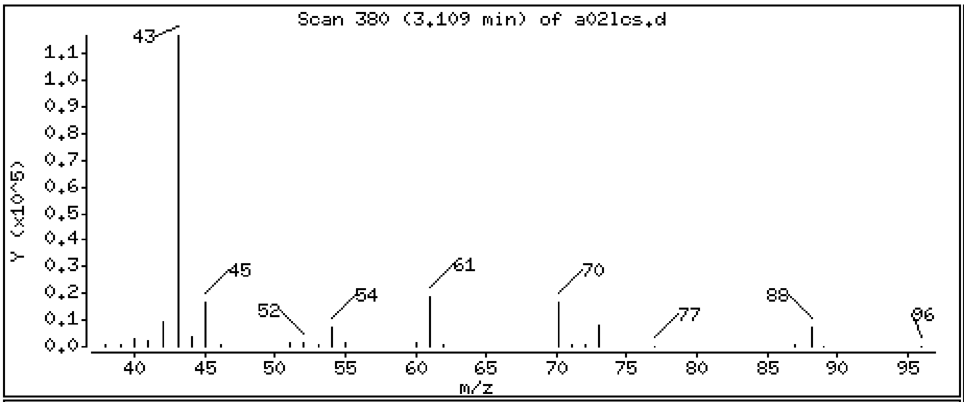
Client ID: Instrument: 50mv2a.i

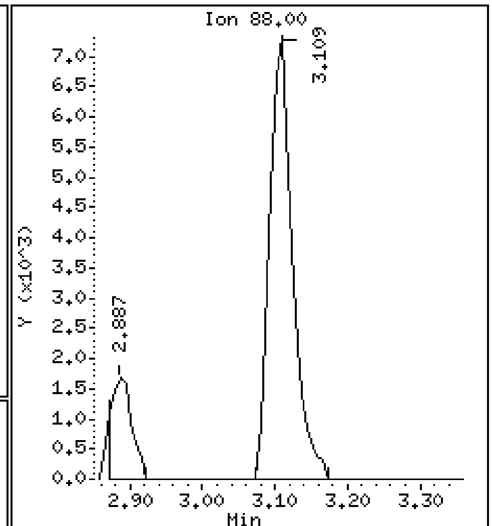
Sample Info: 3289829,336609:5

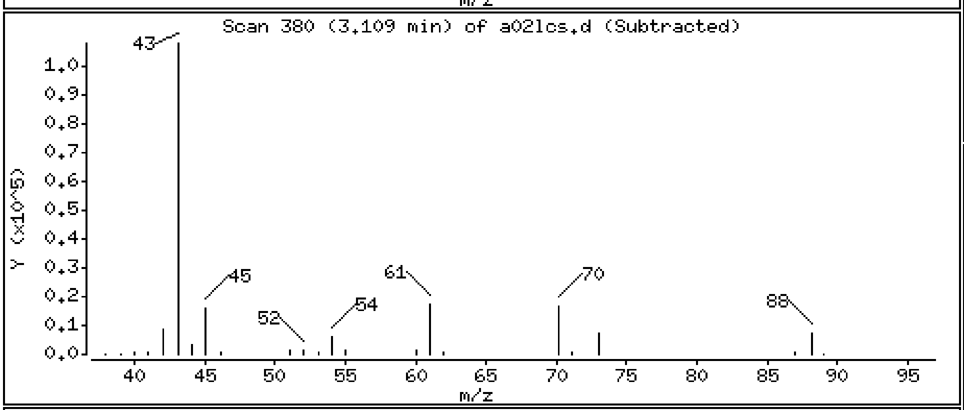
Purge Volume: 5.0 Operator: tkg

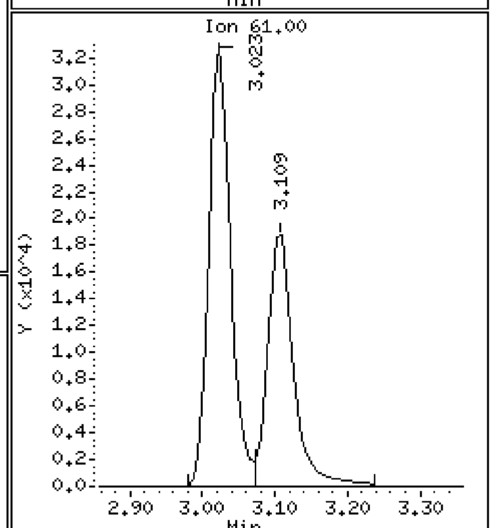
Column phase: DB-624 Column diameter: 0.18

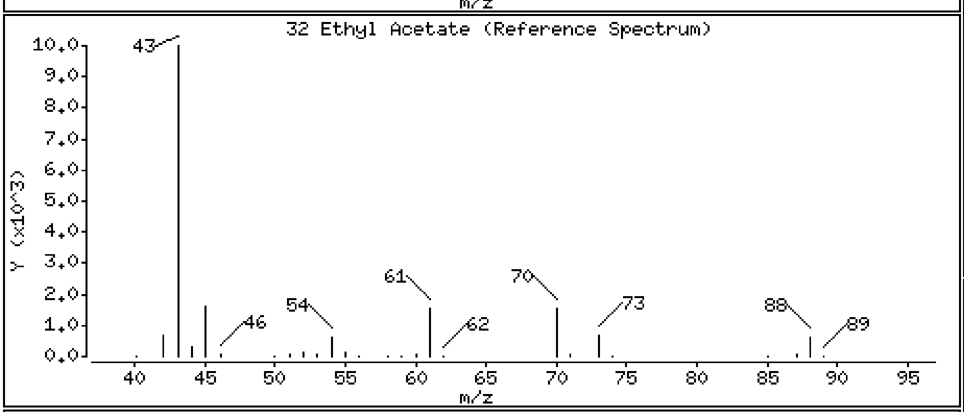
32 Ethyl Acetate Concentration: 263 ppb Review Code:

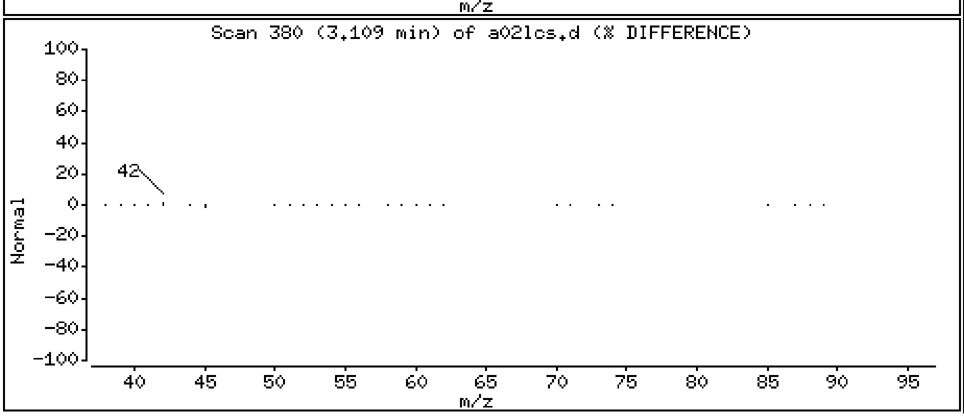


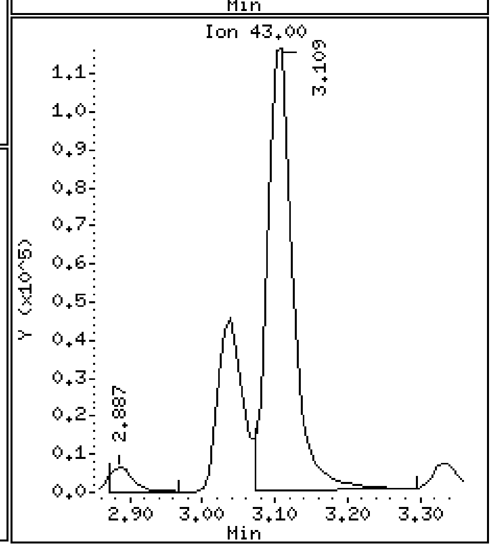












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Date : 27-JAN-2023 11:35

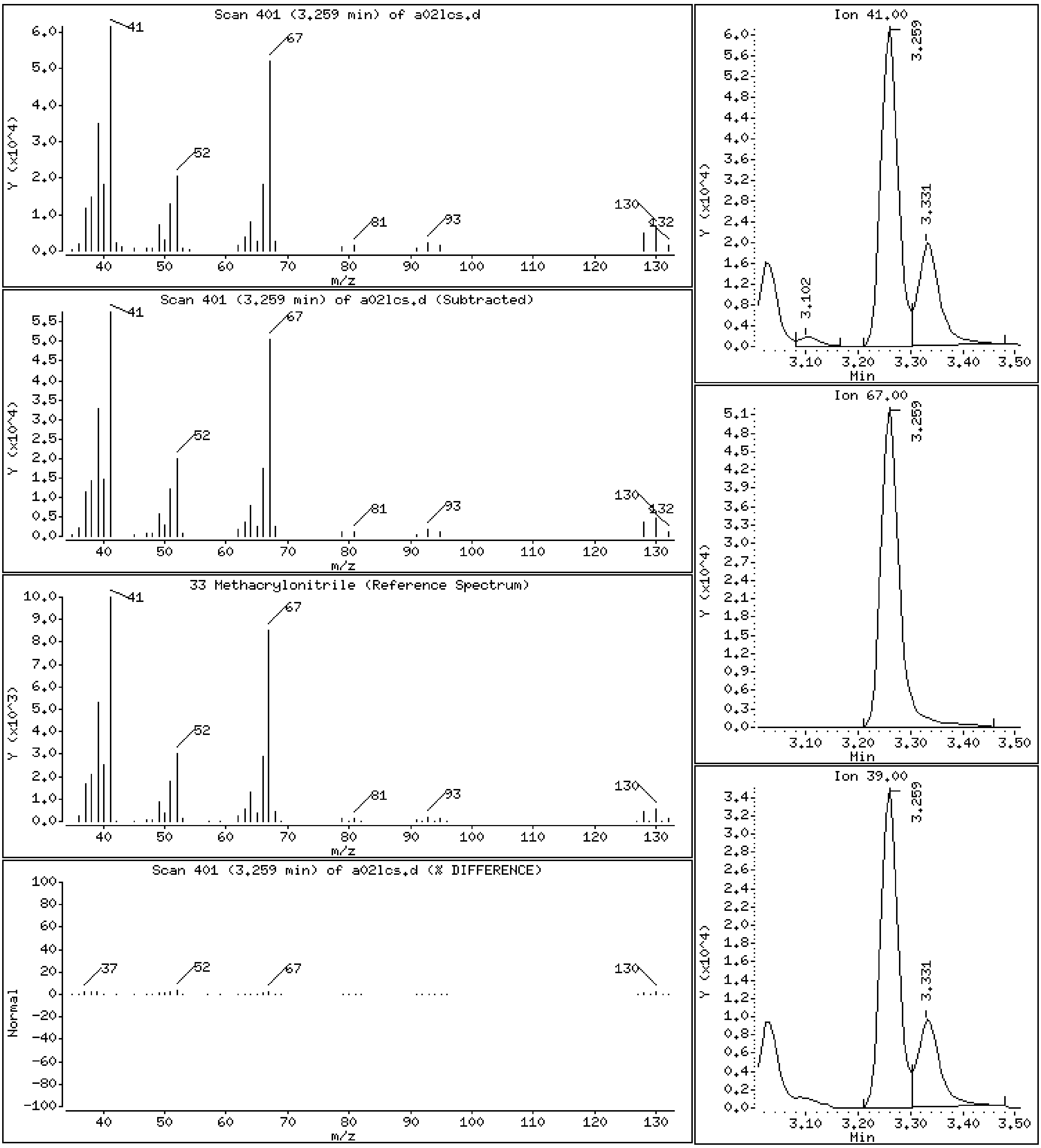
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

33 Methacrylonitrile Concentration: 266 ppb Review Code:



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Date : 27-JAN-2023 11:35

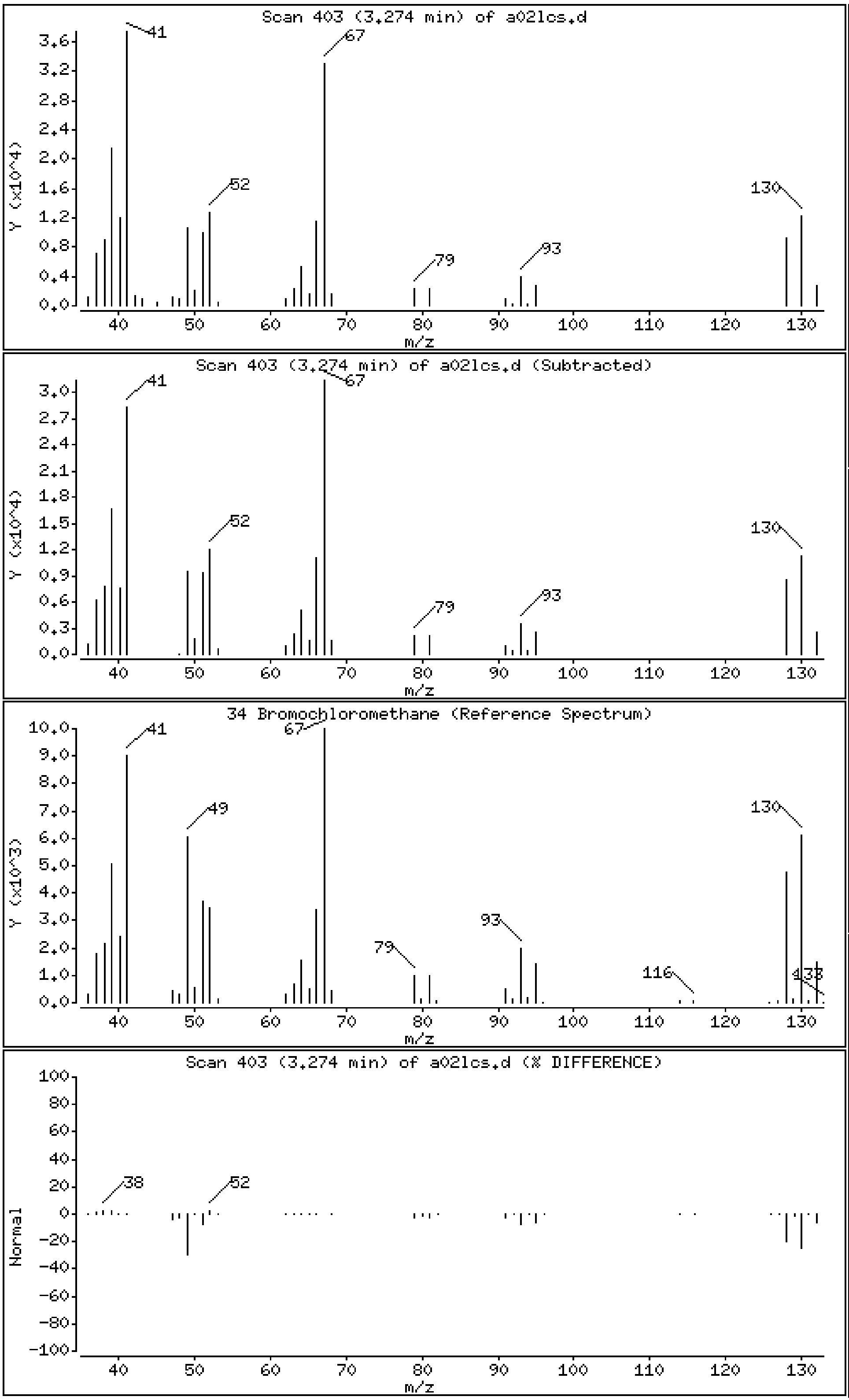
Client ID: Instrument: 50mv2a.i

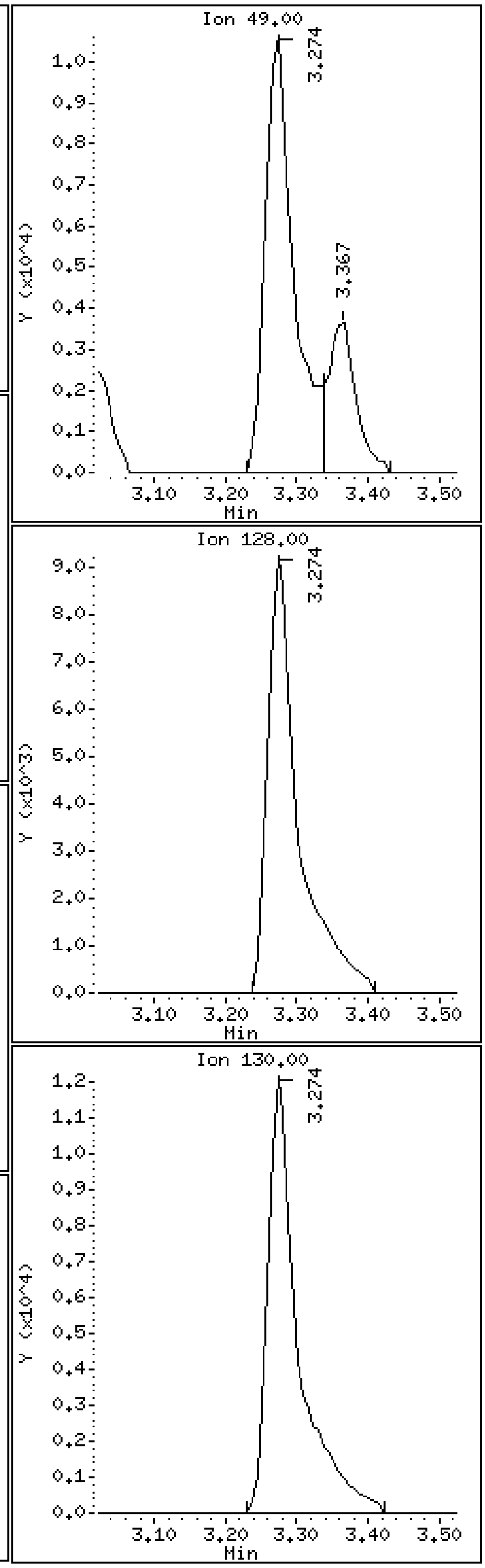
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

34 Bromochloromethane Concentration: 49.8 ppb Review Code:





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Date : 27-JAN-2023 11:35

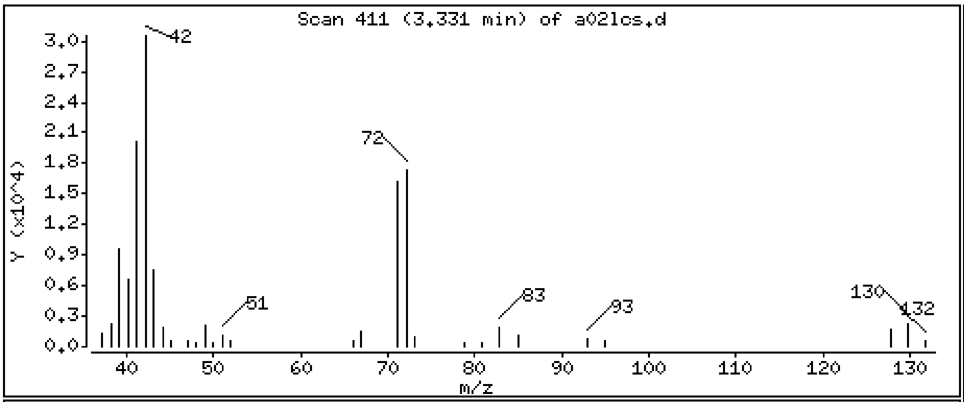
Client ID: | Instrument: 50mv2a.i

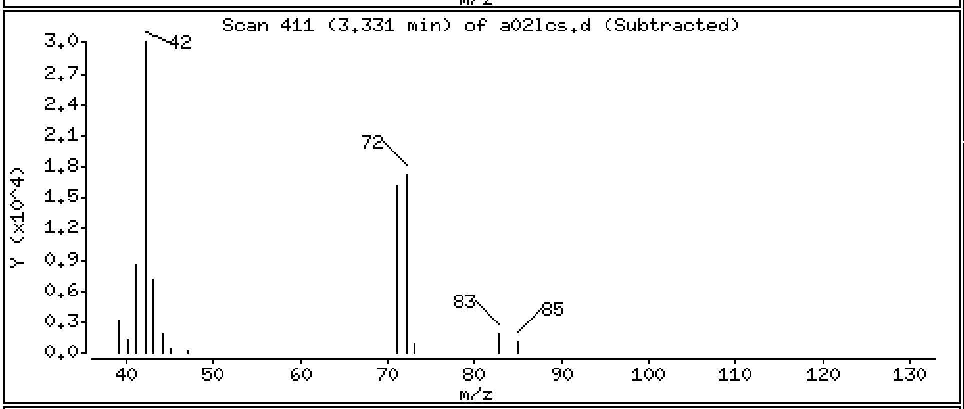
Sample Info: 3289829,336609:5

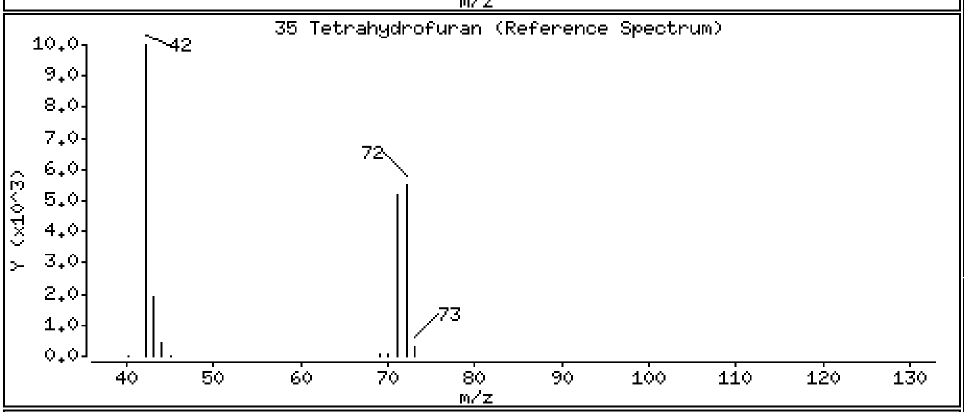
Purge Volume: 5.0 | Operator: tkg

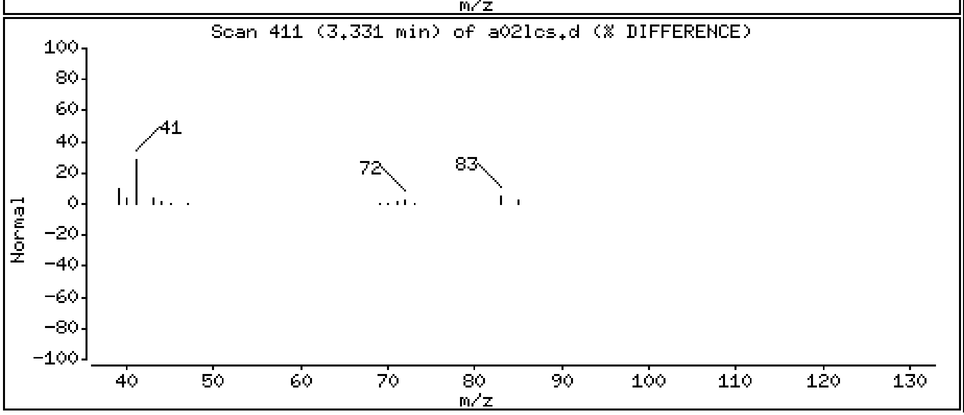
Column phase: DB-624 | Column diameter: 0.18

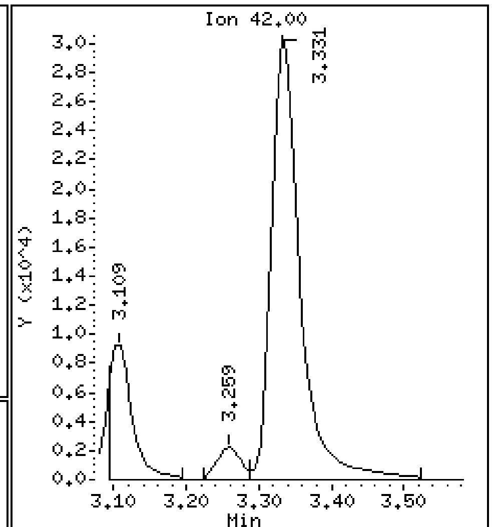
35 Tetrahydrofuran | Concentration: 267 ppb | Review Code:

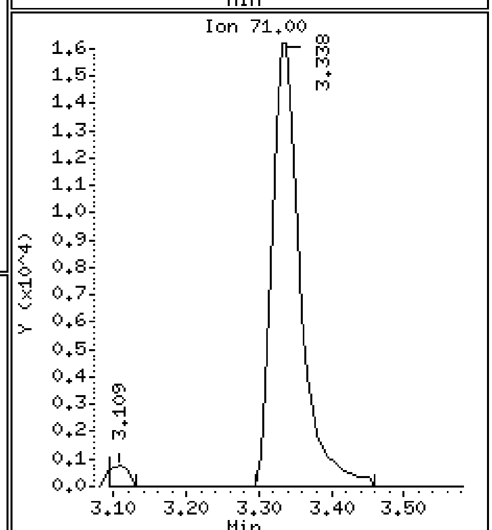


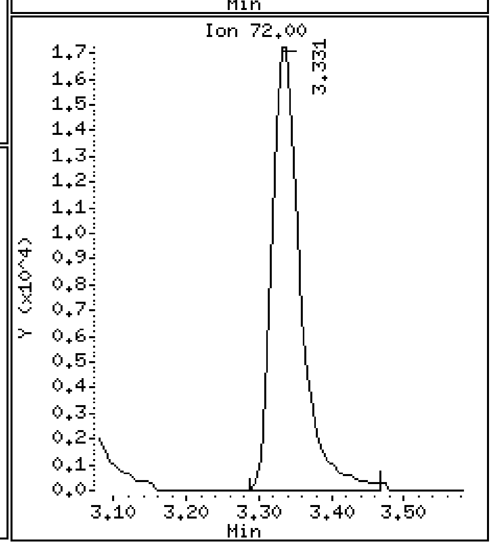












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

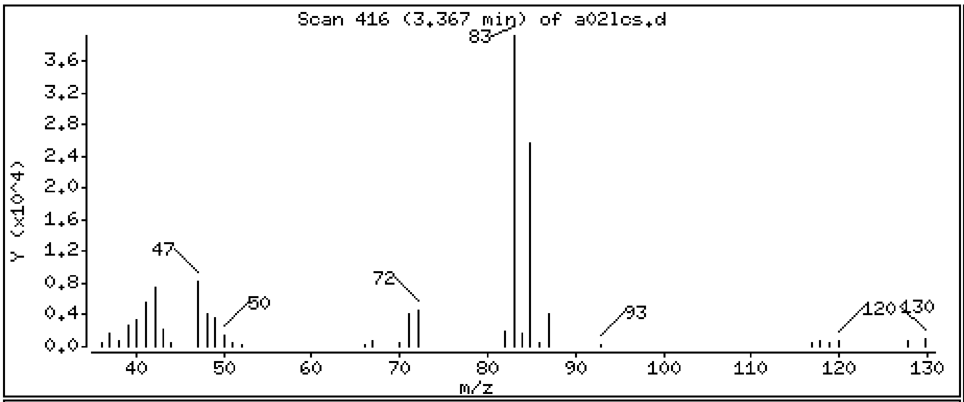
Column phase: DB-624

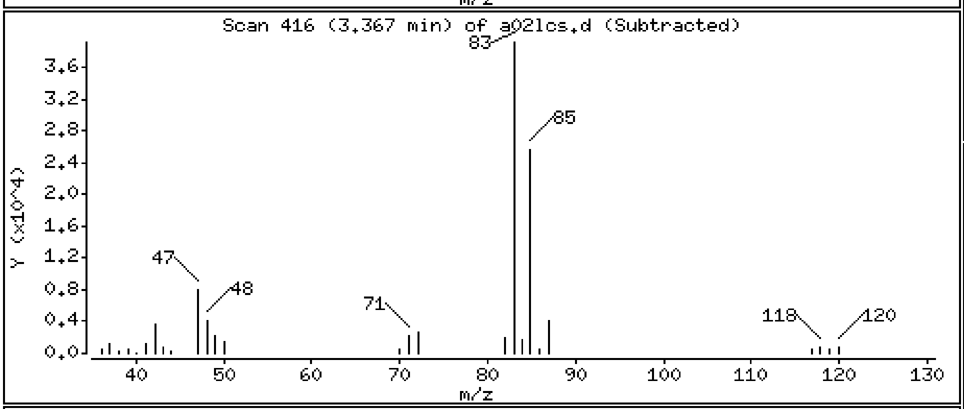
Column diameter: 0.18

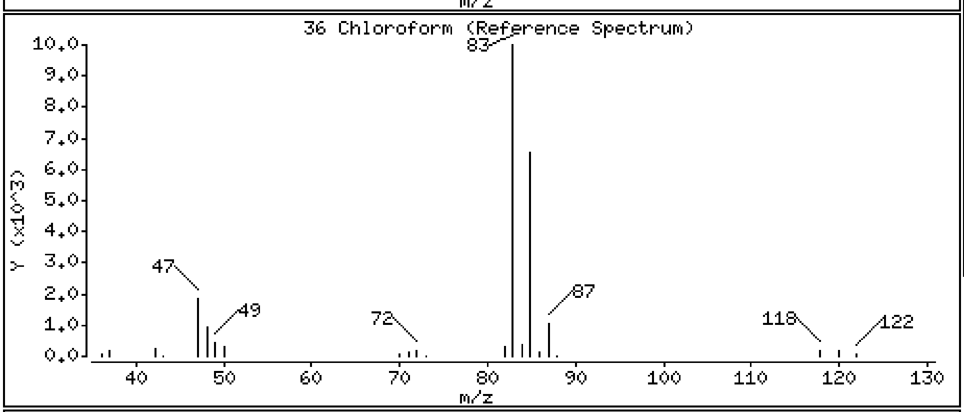
36 Chloroform

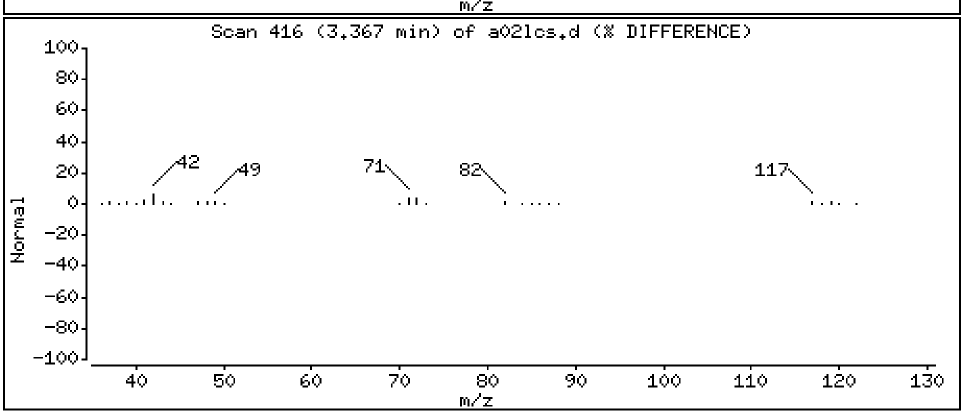
Concentration: 51.2 ppb

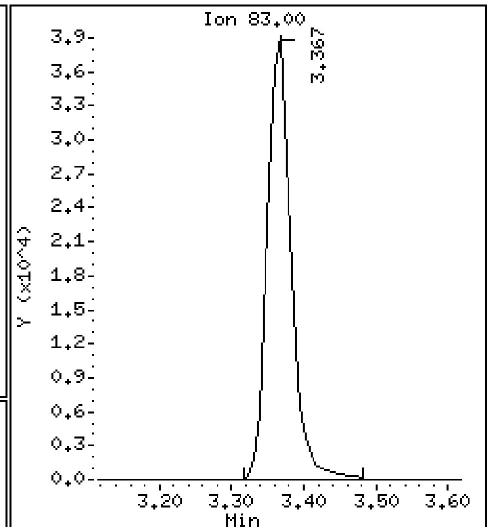
Review Code:

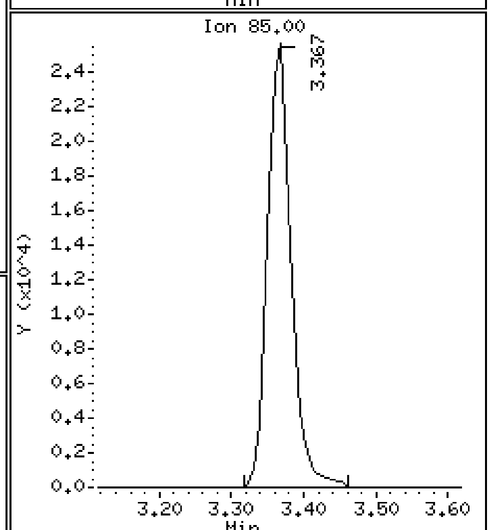












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

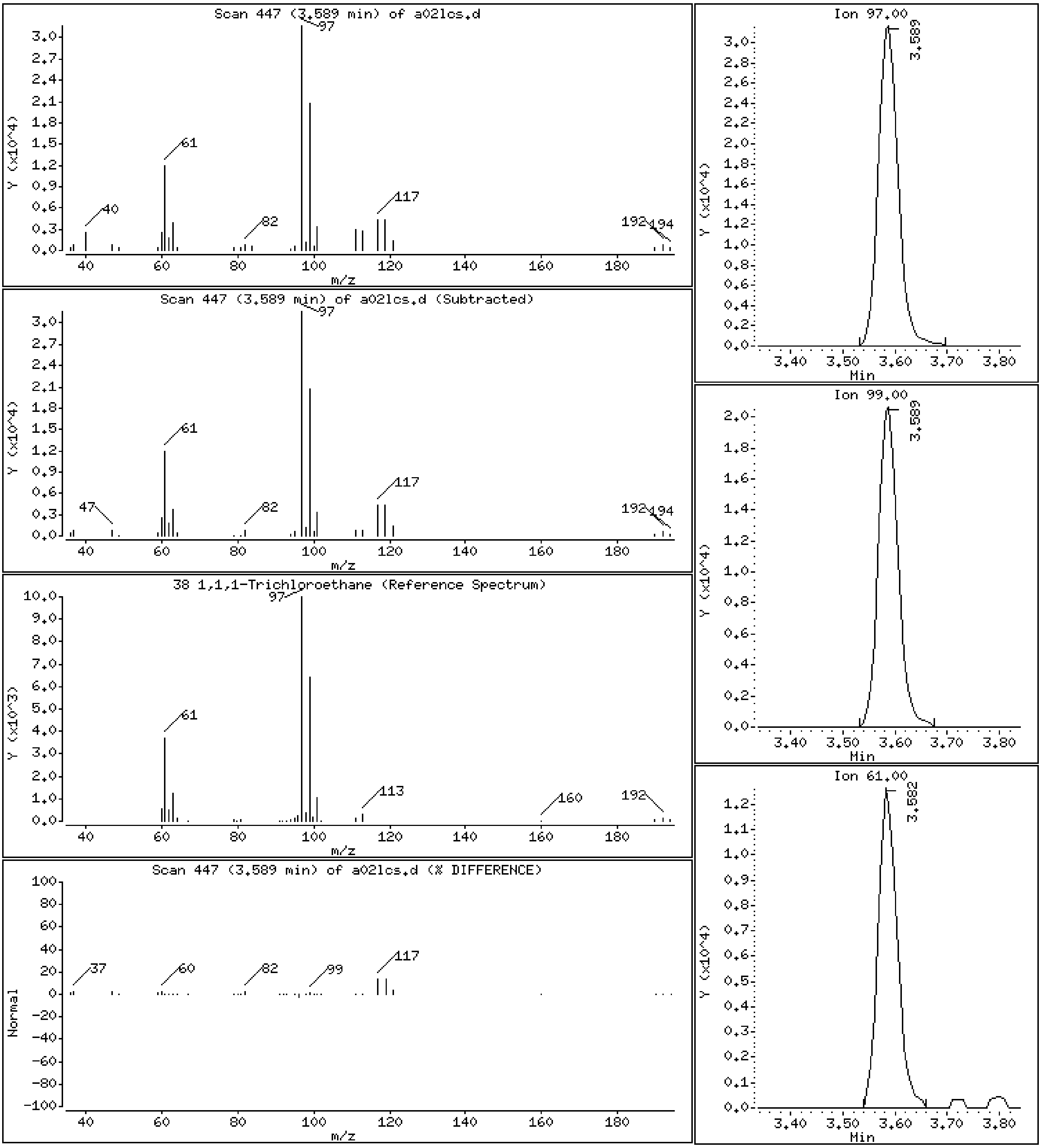
Column phase: DB-624

Column diameter: 0.18

38 1,1,1-Trichloroethane

Concentration: 54.3 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

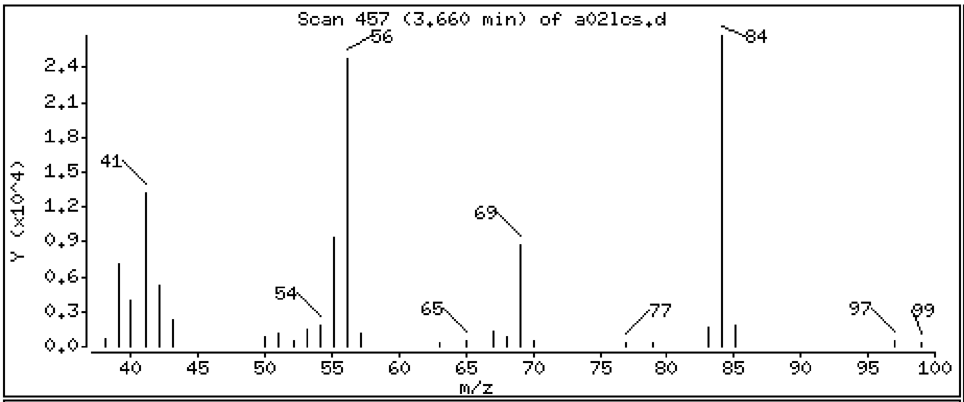
Column phase: DB-624

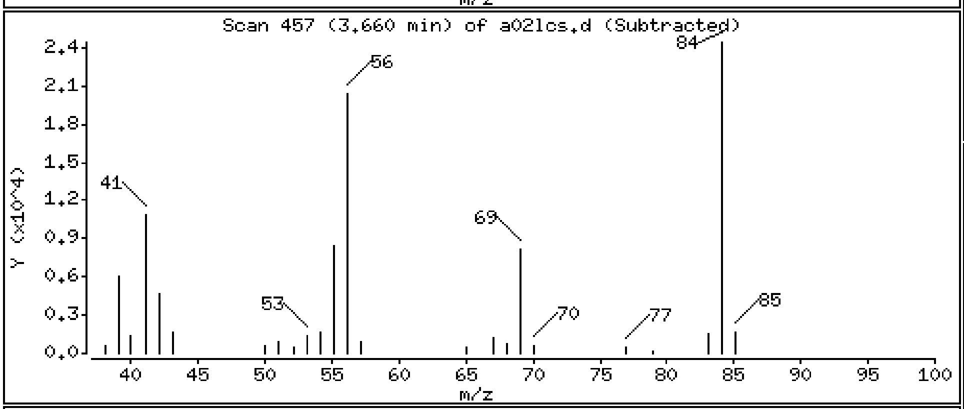
Column diameter: 0.18

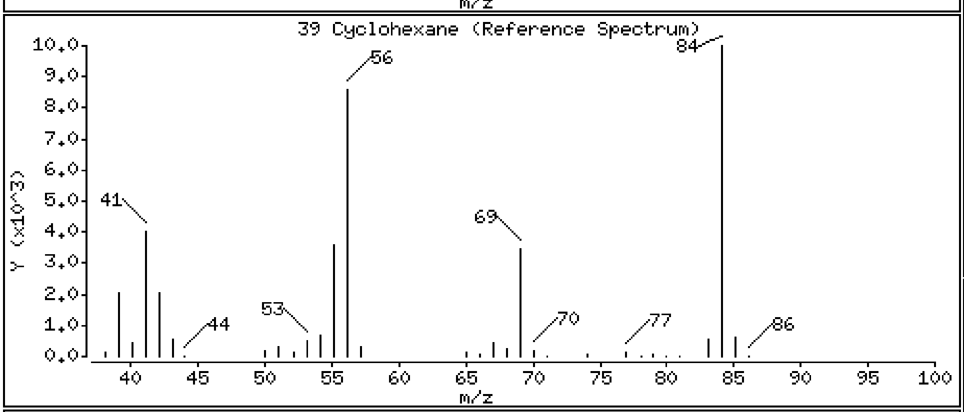
39 Cyclohexane

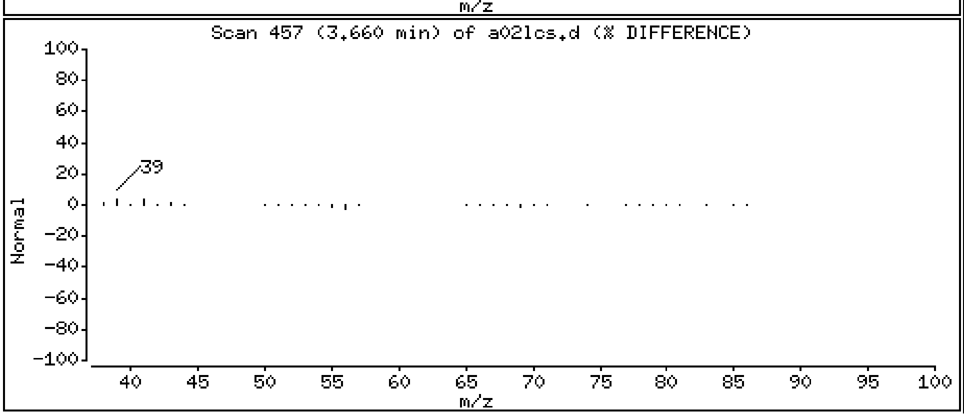
Concentration: 47.7 ppb

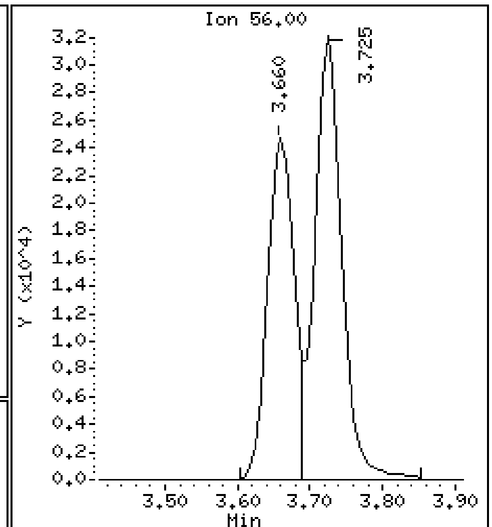
Review Code:

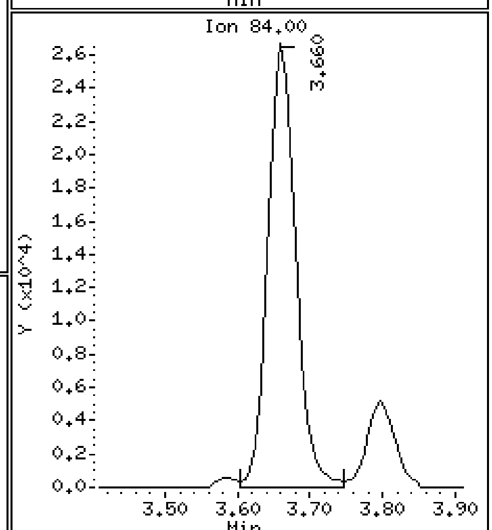


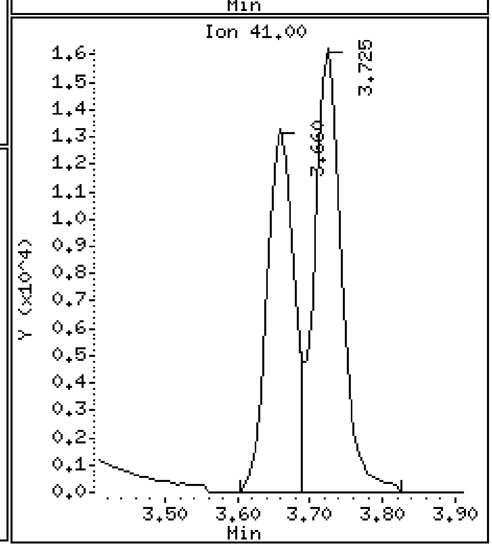












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

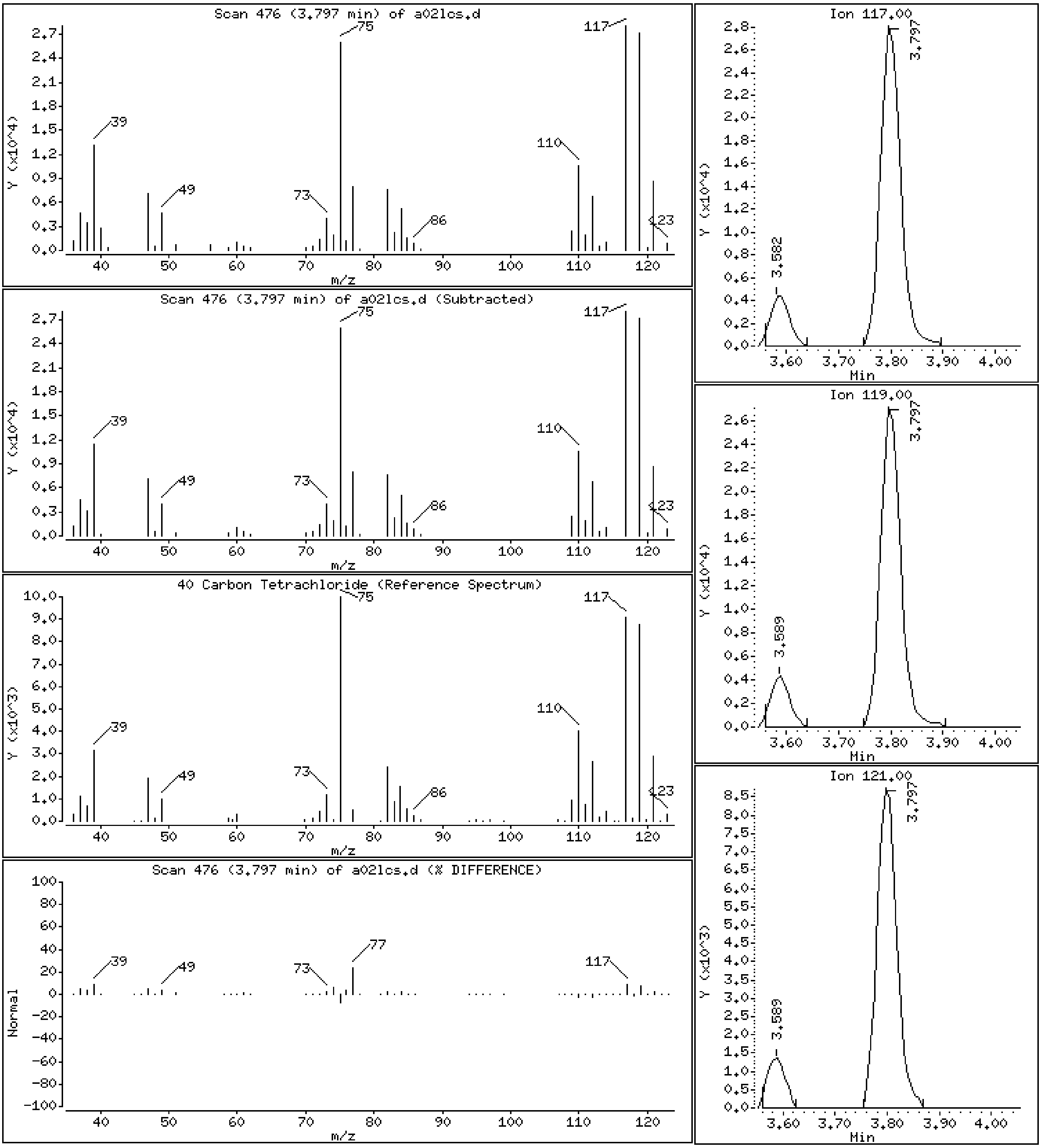
Column phase: DB-624

Column diameter: 0.18

40 Carbon Tetrachloride

Concentration: 53.9 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

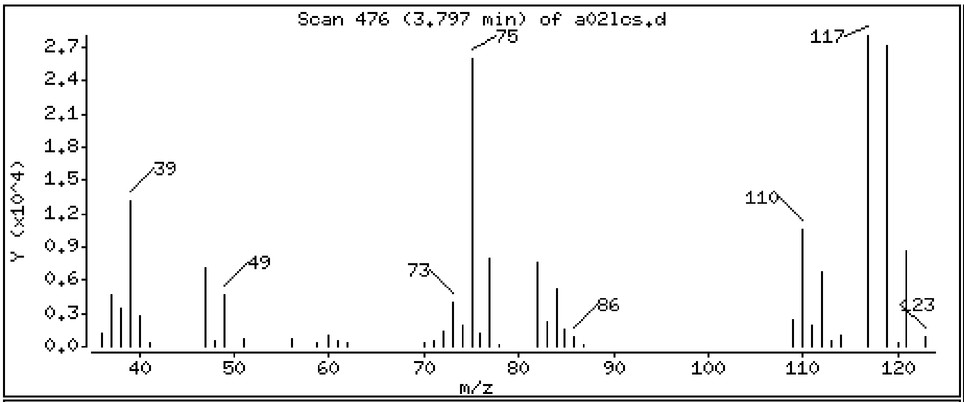
Column phase: DB-624

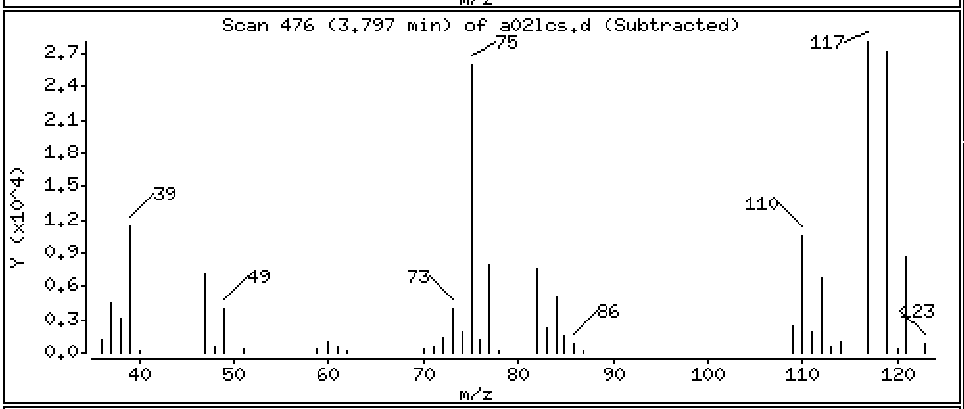
Column diameter: 0.18

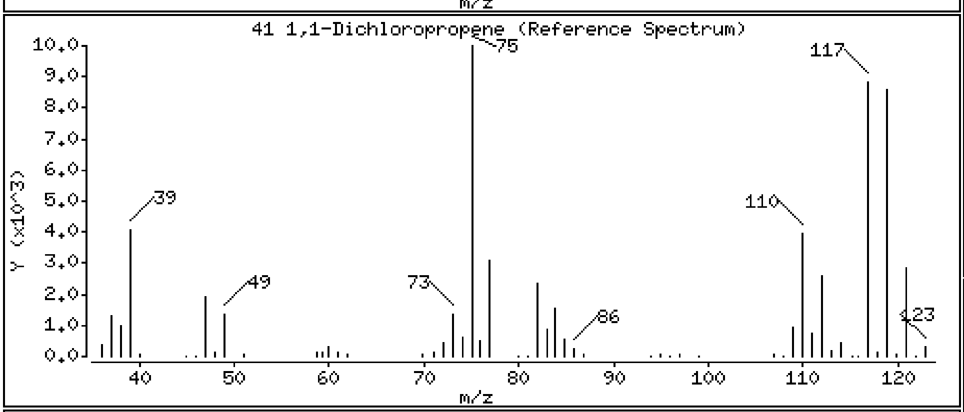
41 1,1-Dichloropropene

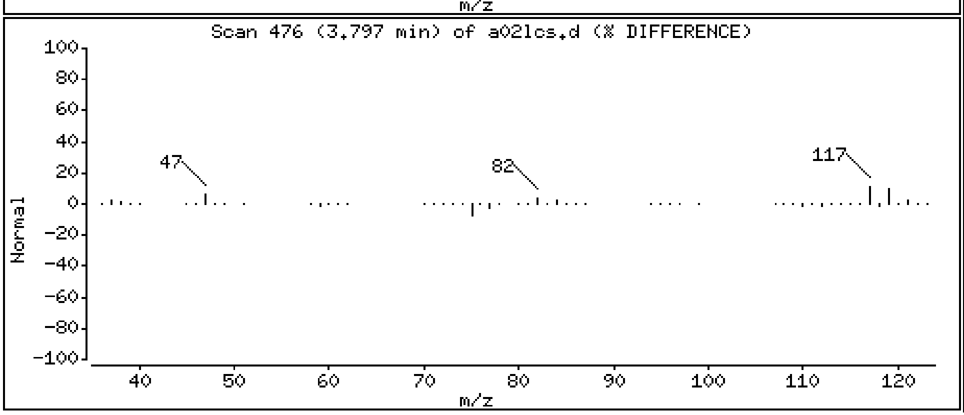
Concentration: 55.5 ppb

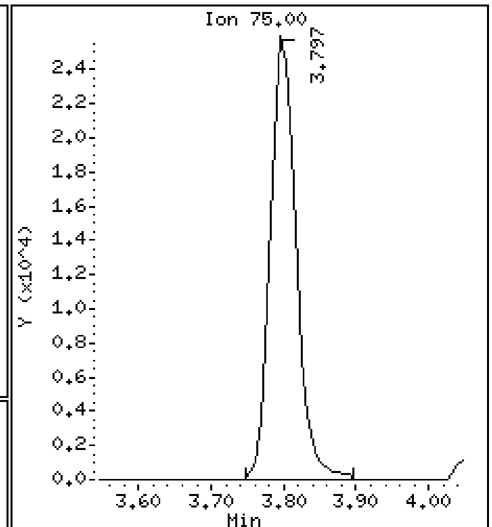
Review Code:

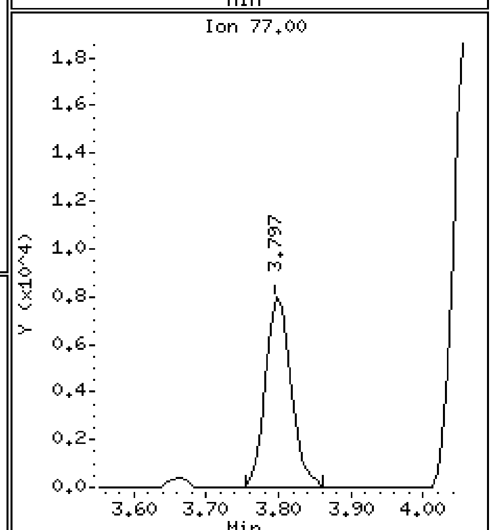


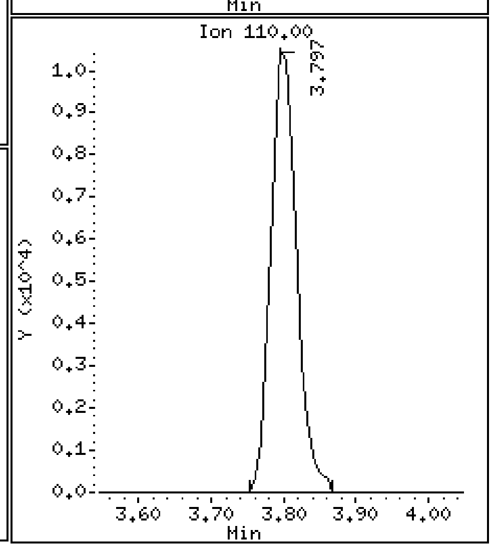












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

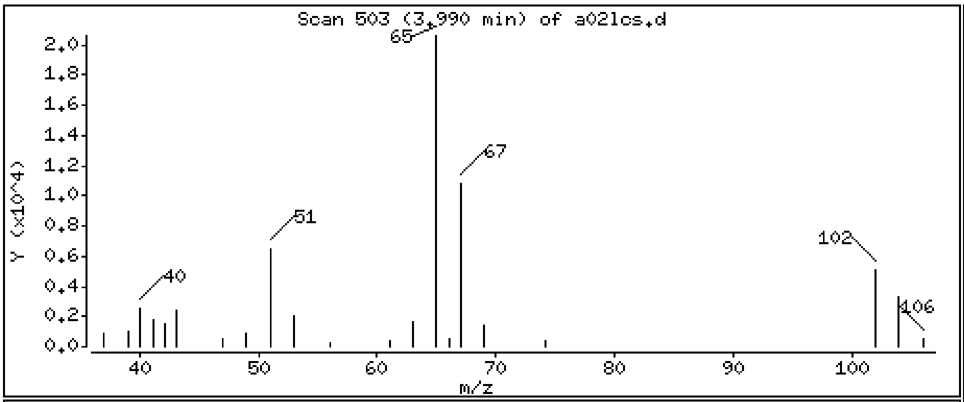
Column phase: DB-624

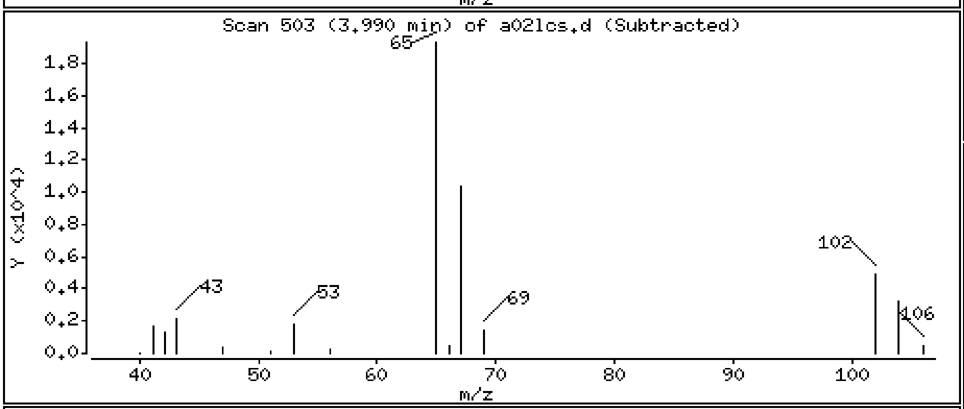
Column diameter: 0.18

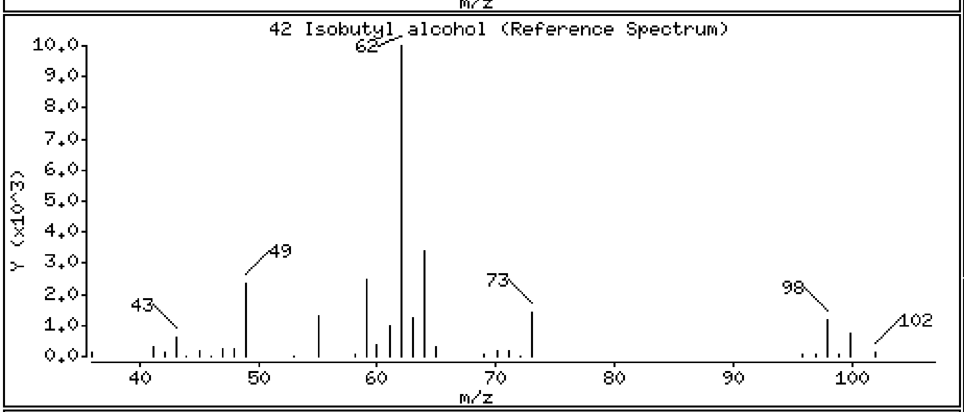
42 Isobutyl alcohol

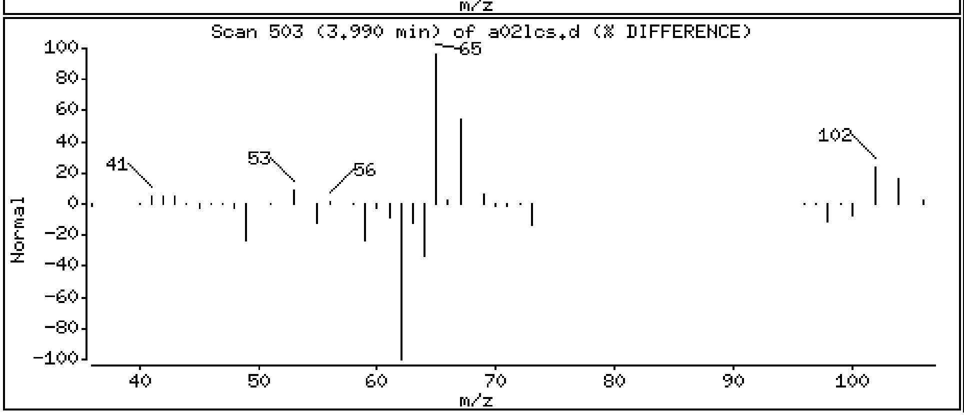
Concentration: 301 ppb

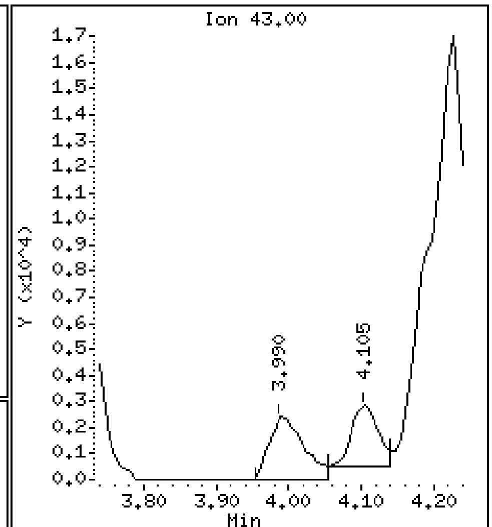
Review Code:

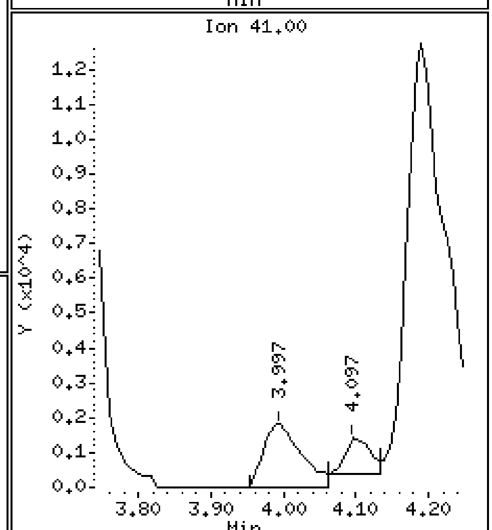


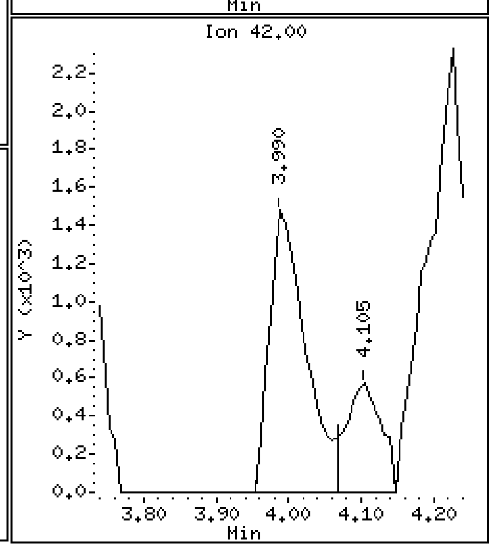












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

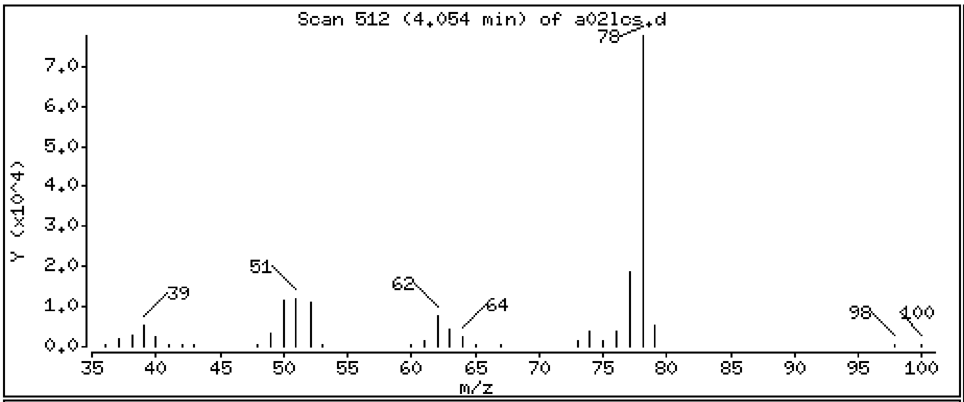
Column phase: DB-624

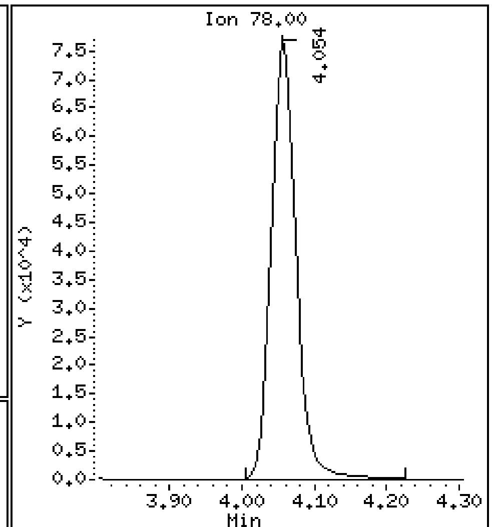
Column diameter: 0.18

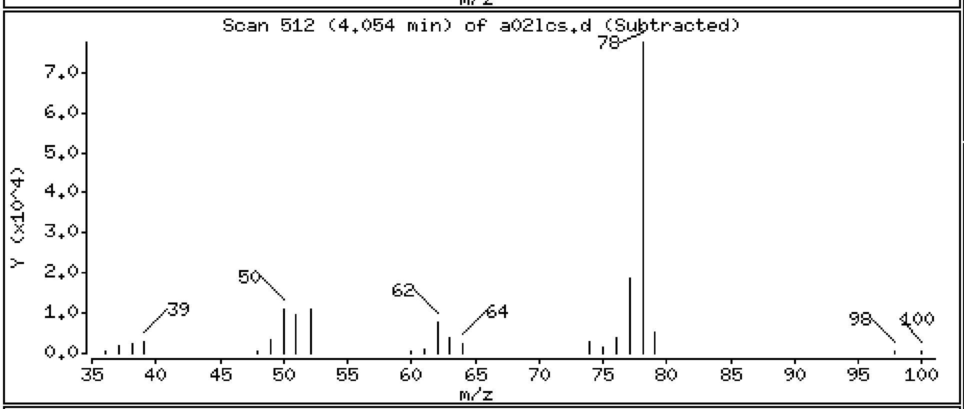
43 Benzene

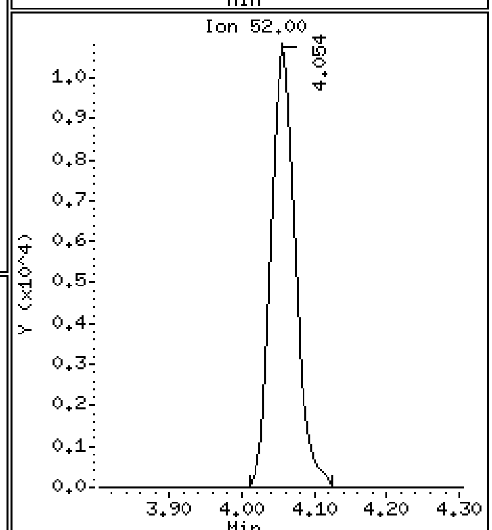
Concentration: 49.6 ppb

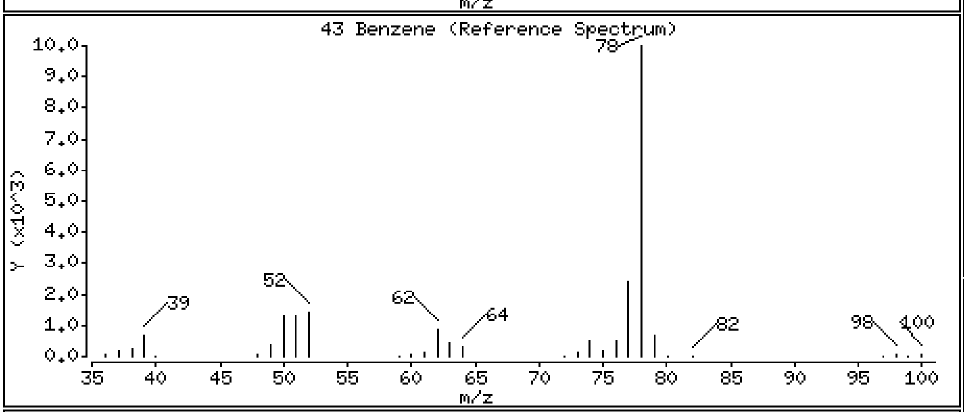
Review Code:

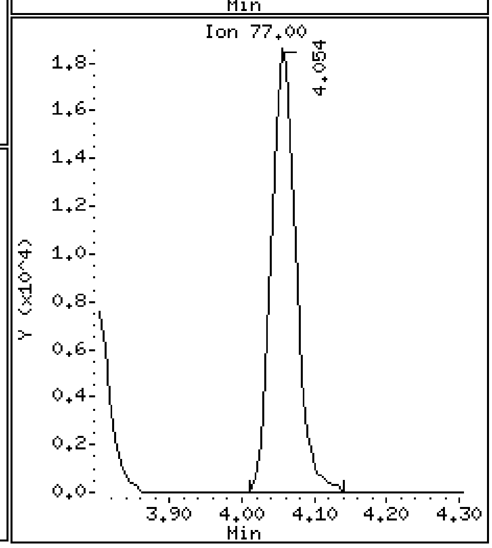


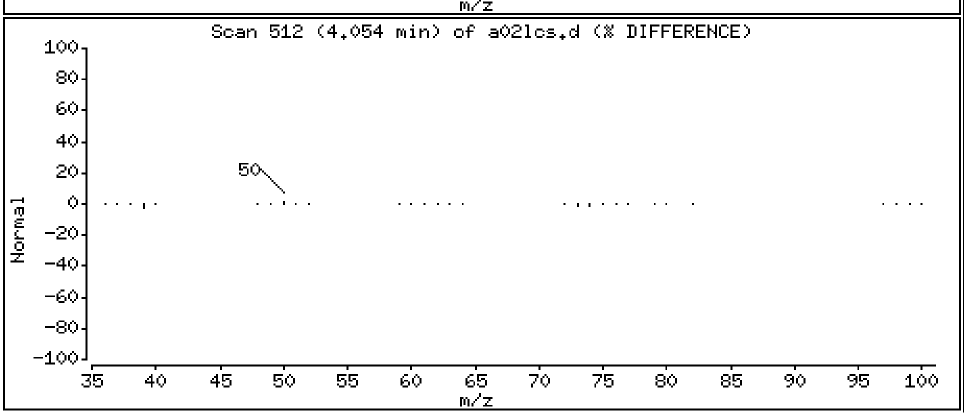












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

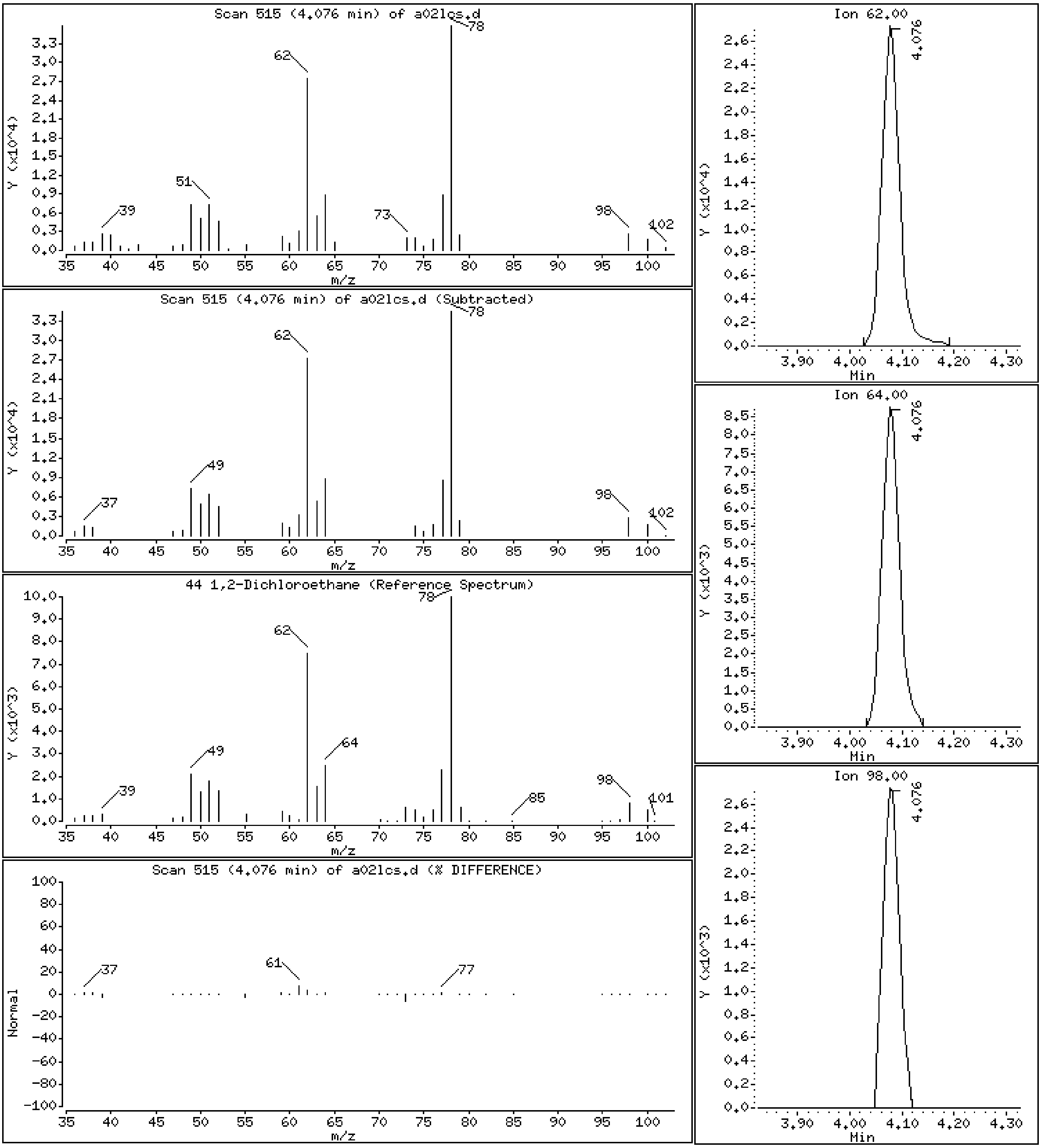
Column phase: DB-624

Column diameter: 0.18

44 1,2-Dichloroethane

Concentration: 50.2 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

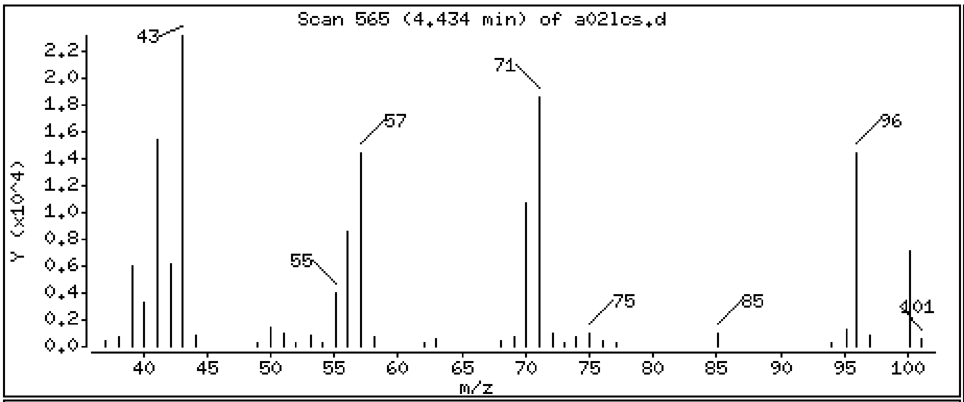
Column phase: DB-624

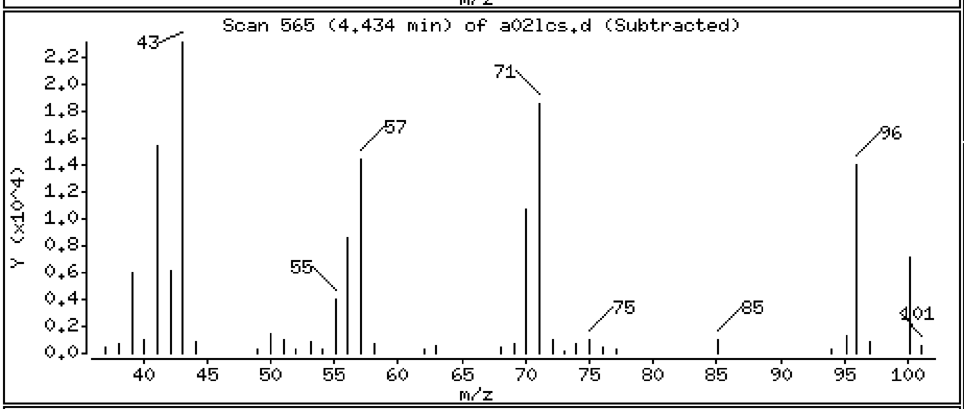
Column diameter: 0.18

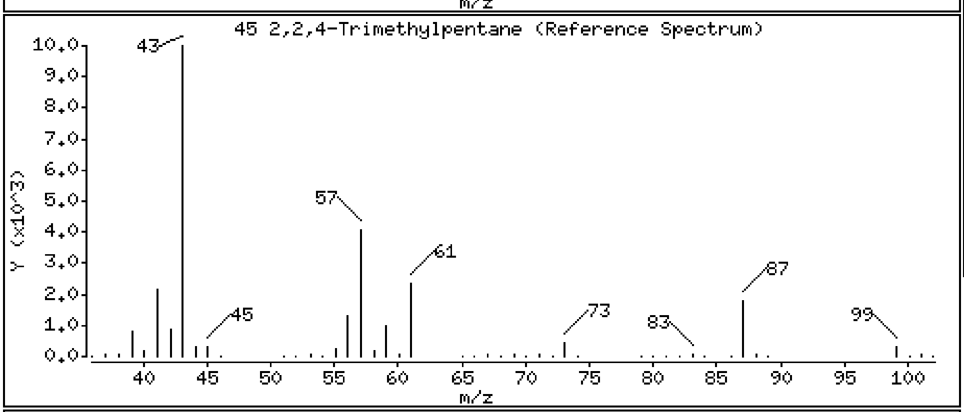
45 2,2,4-Trimethylpentane

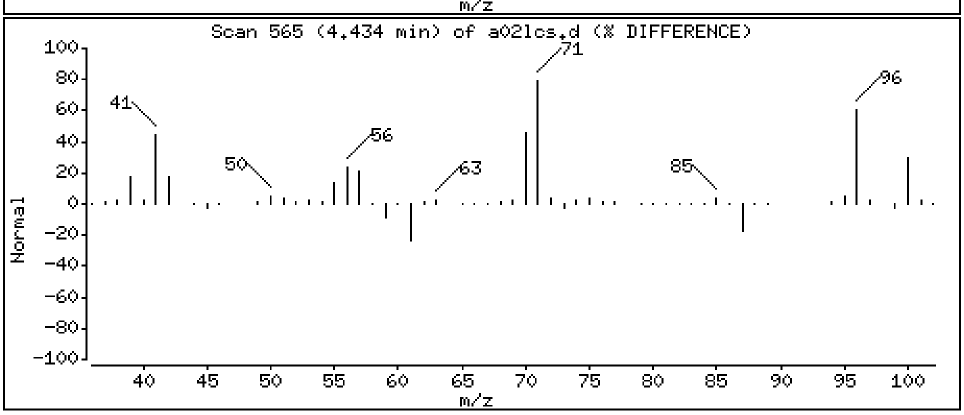
Concentration: 48.2 ppb

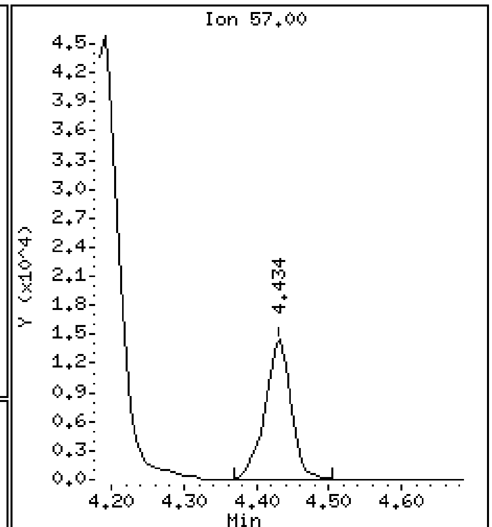
Review Code:

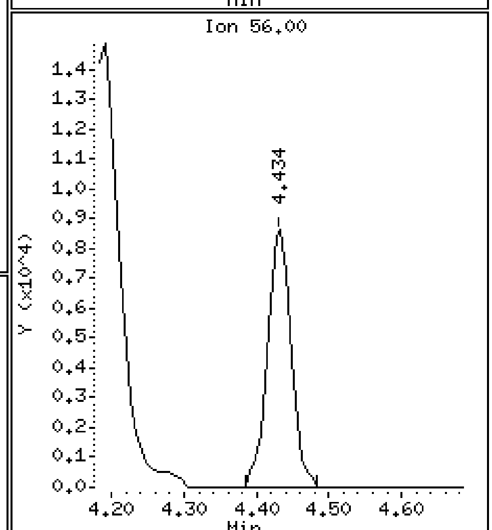












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

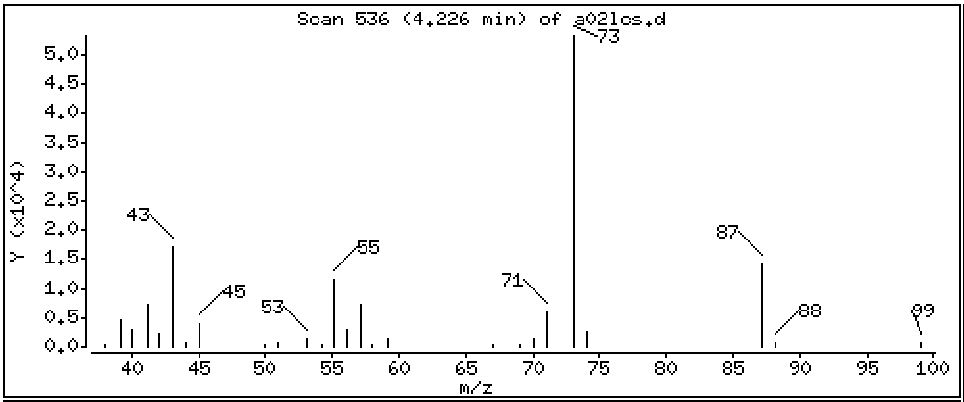
Column phase: DB-624

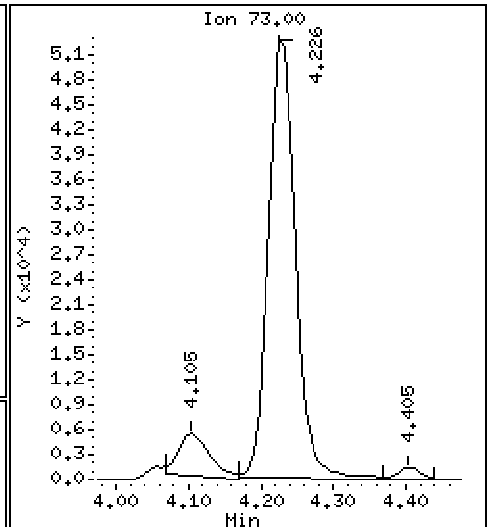
Column diameter: 0.18

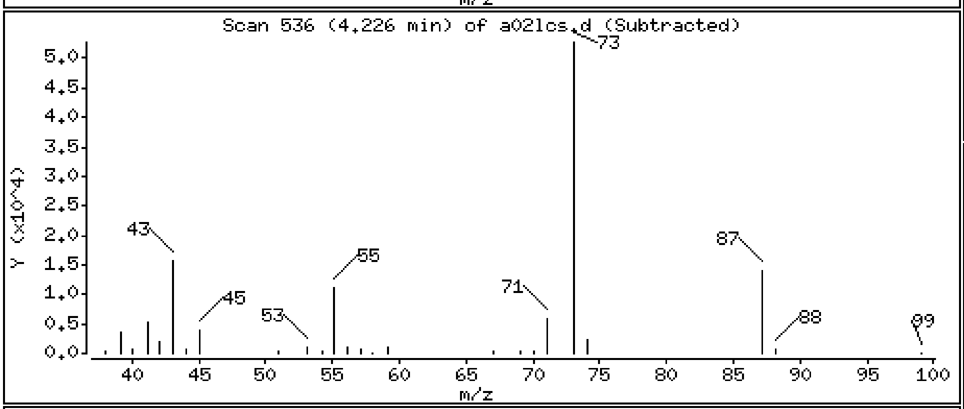
46 tert-Amylmethyl ether

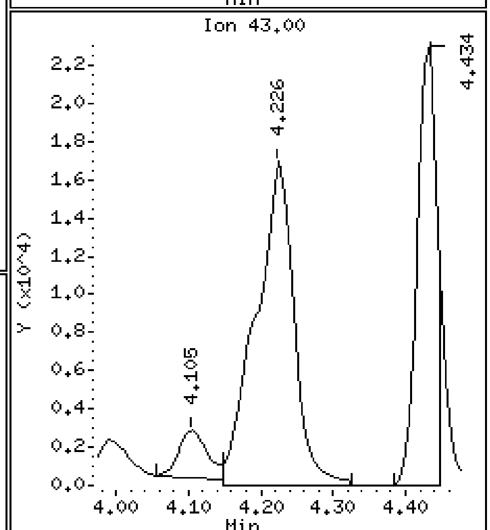
Concentration: 50.0 ppb

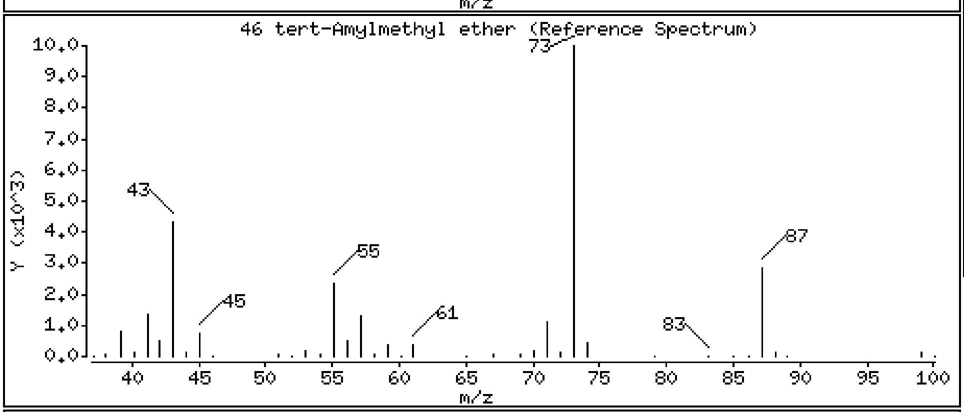
Review Code:

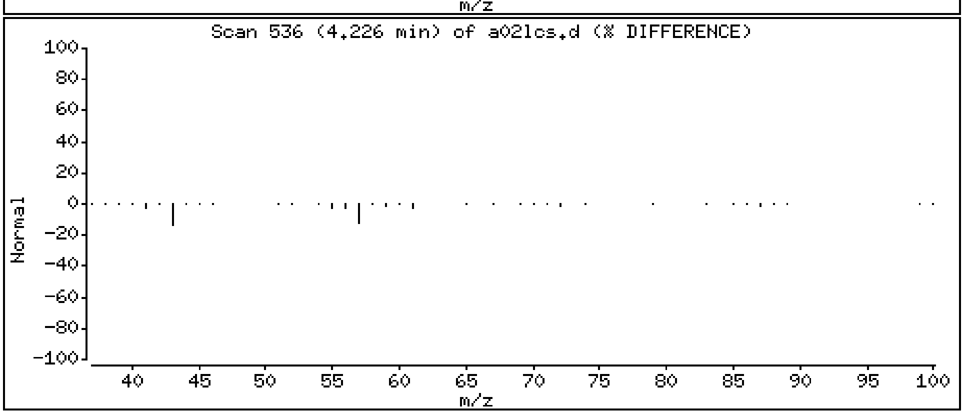












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

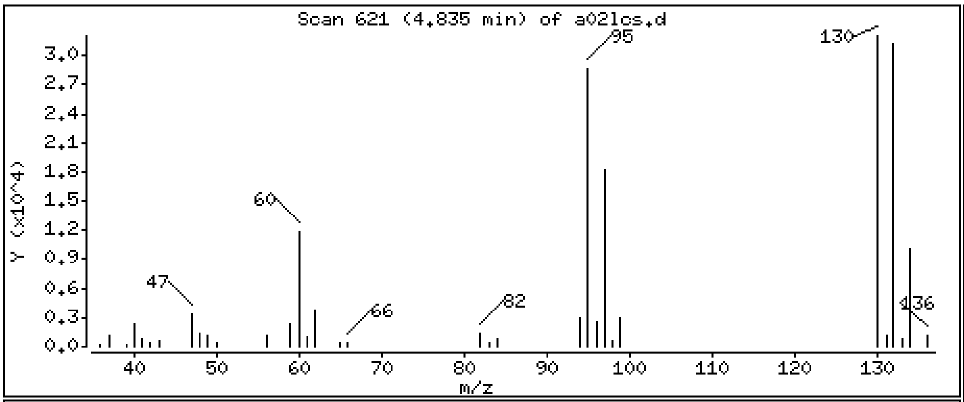
Column phase: DB-624

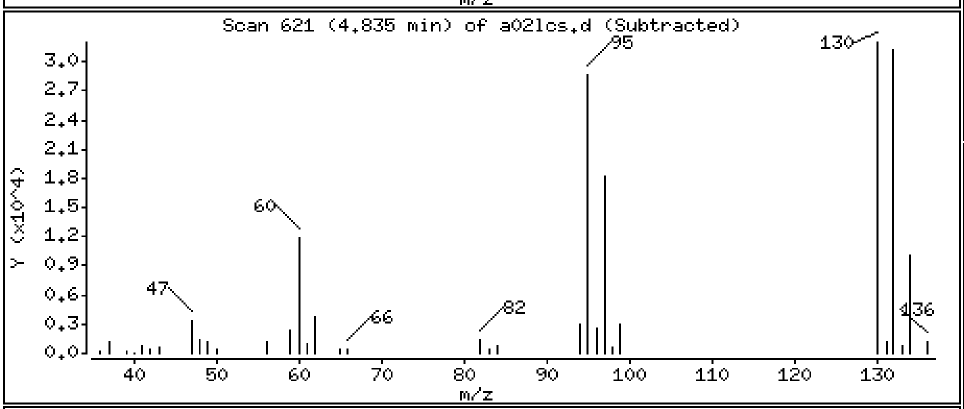
Column diameter: 0.18

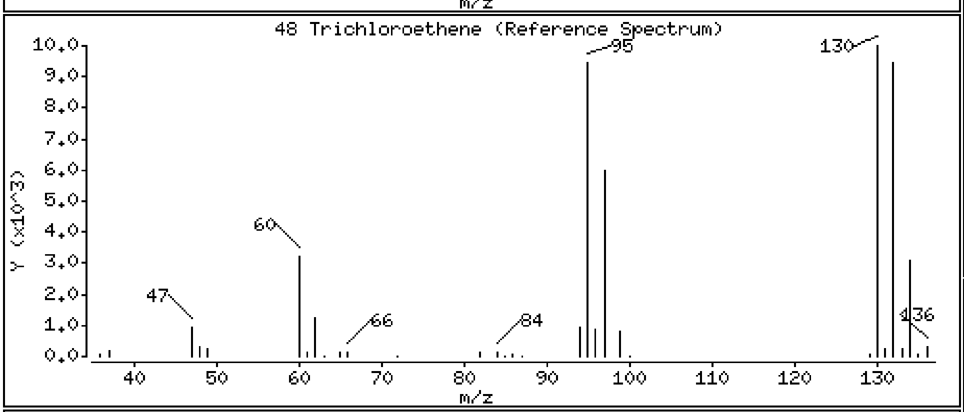
48 Trichloroethene

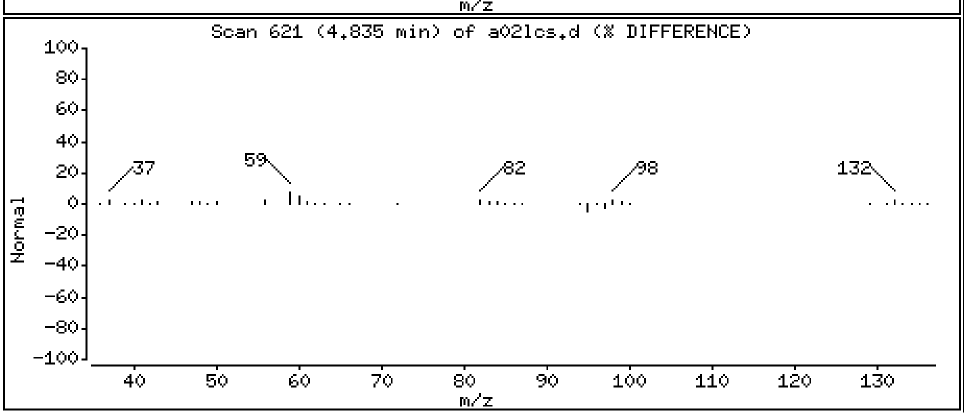
Concentration: 52.4 ppb

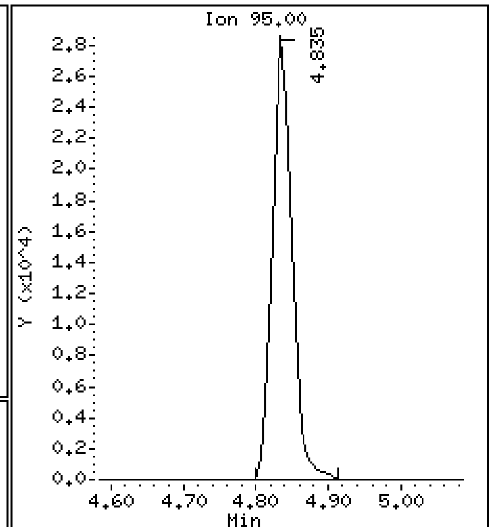
Review Code:

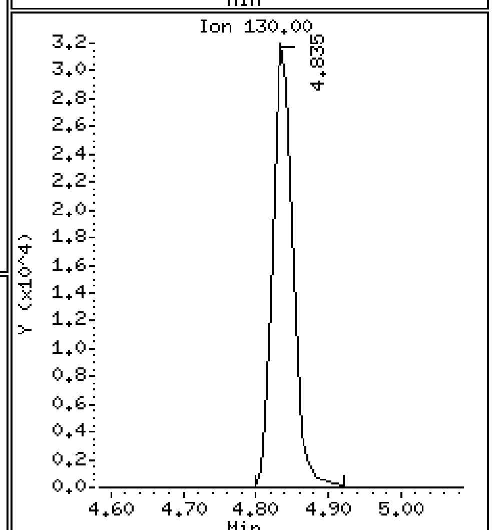


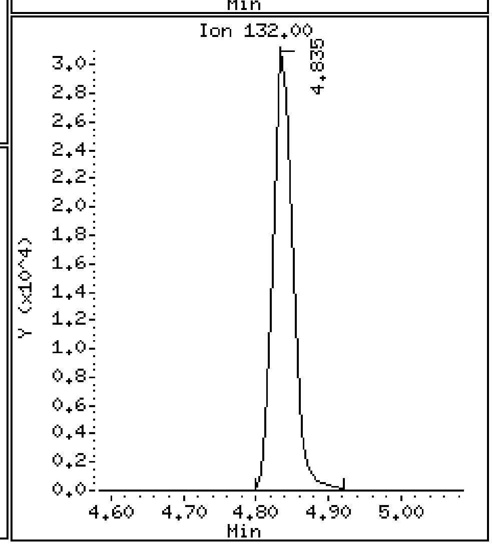












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

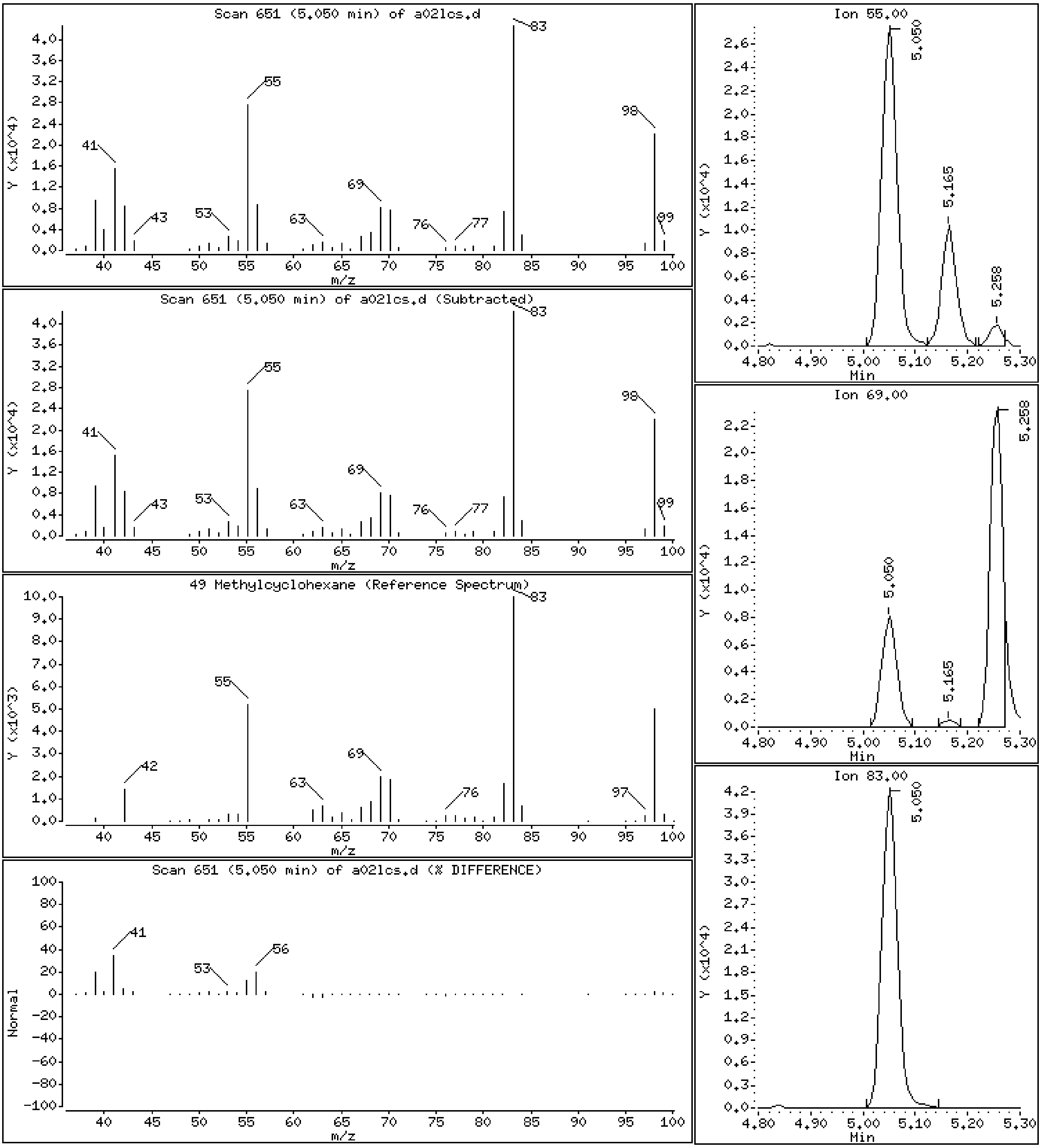
Column phase: DB-624

Column diameter: 0.18

49 Methylcyclohexane

Concentration: 49.8 ppb

Review Code:



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Date : 27-JAN-2023 11:35

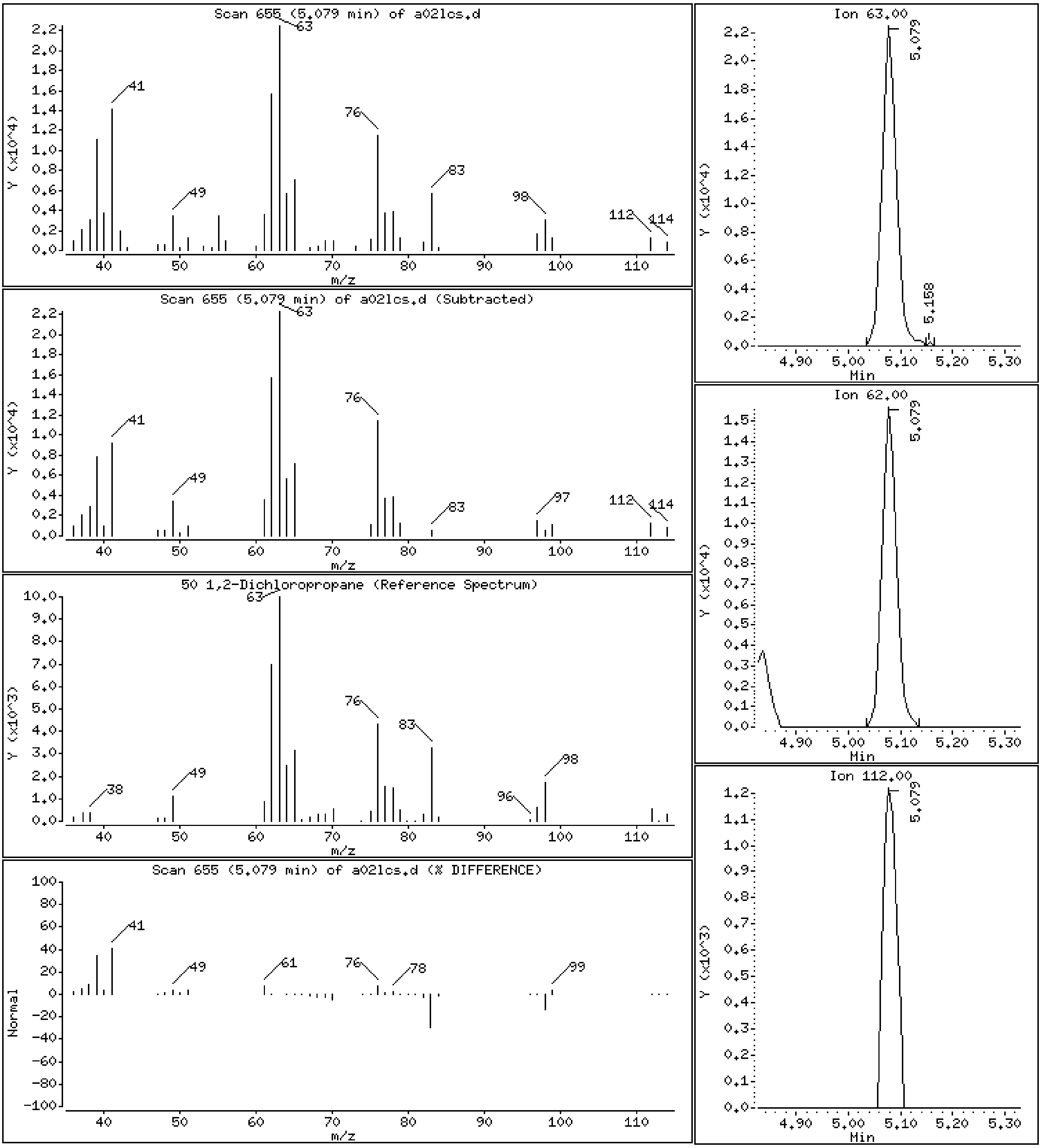
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

50 1,2-Dichloropropane Concentration: 50.6 ppb Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

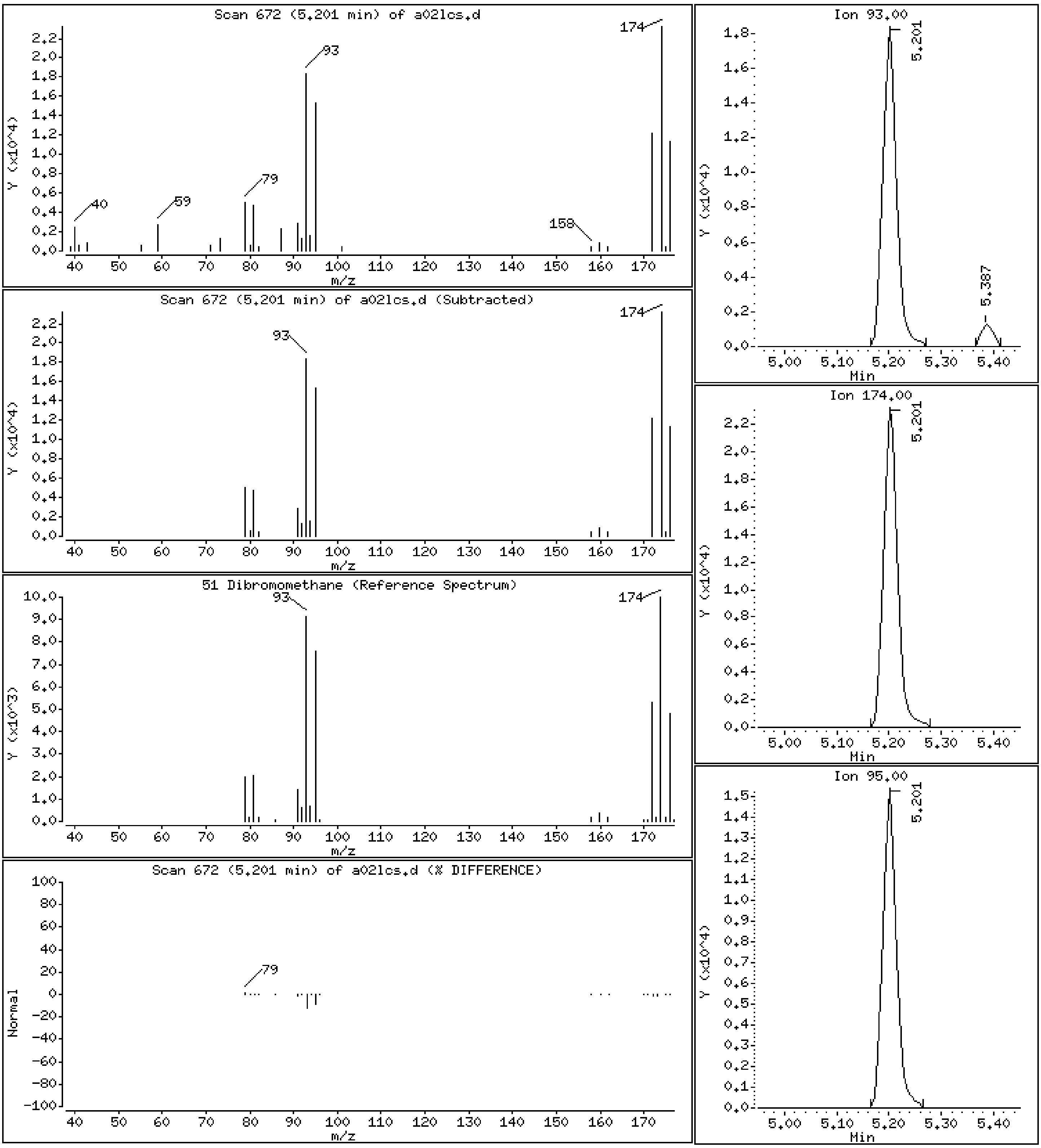
Column phase: DB-624

Column diameter: 0.18

51 Dibromomethane

Concentration: 54.3 ppb

Review Code:



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Date : 27-JAN-2023 11:35

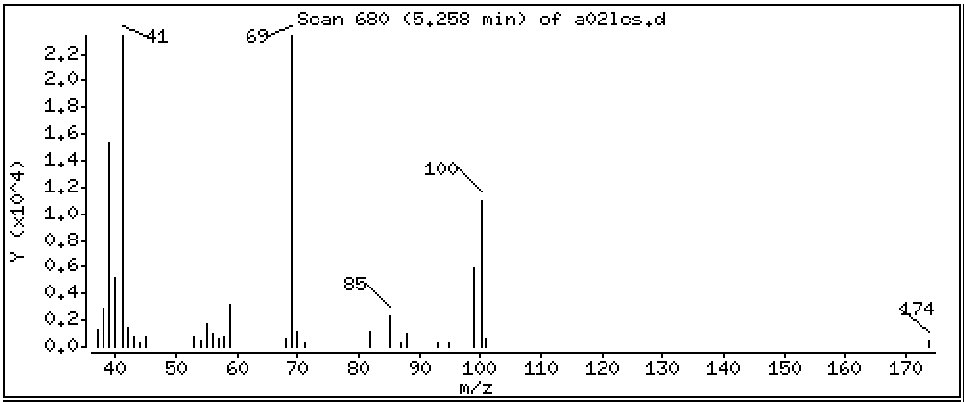
Client ID: Instrument: 50mv2a.i

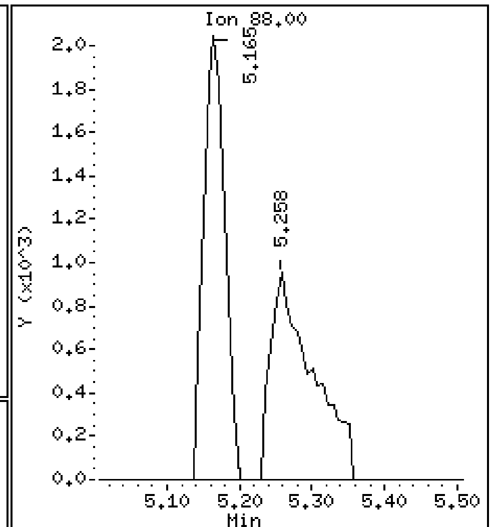
Sample Info: 3289829,336609:5

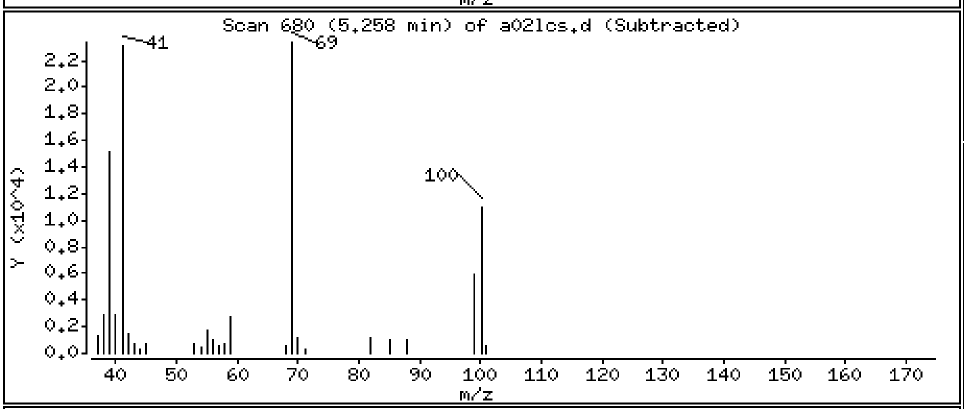
Purge Volume: 5.0 Operator: tkg

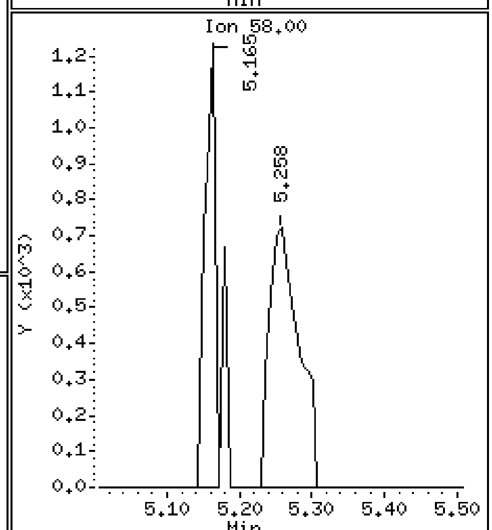
Column phase: DB-624 Column diameter: 0.18

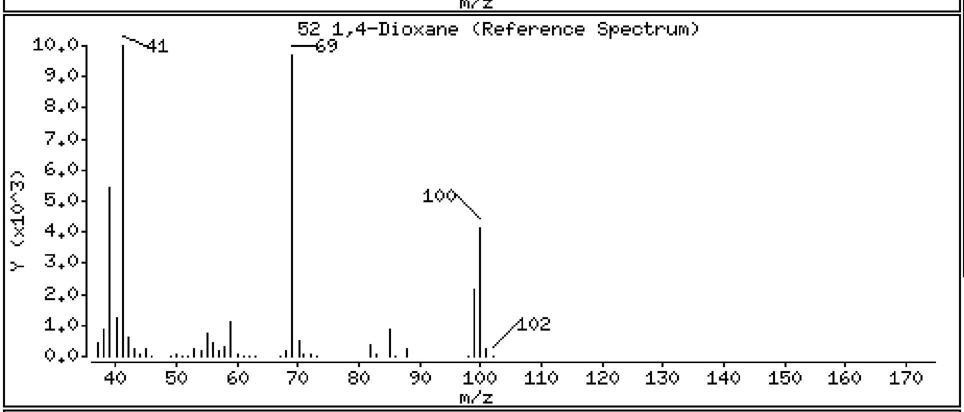
52 1,4-Dioxane Concentration: 1180 ppb Review Code:

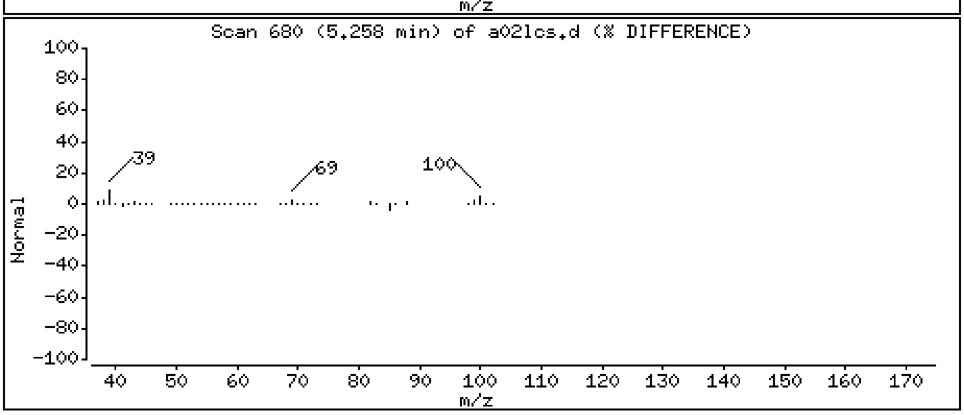












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

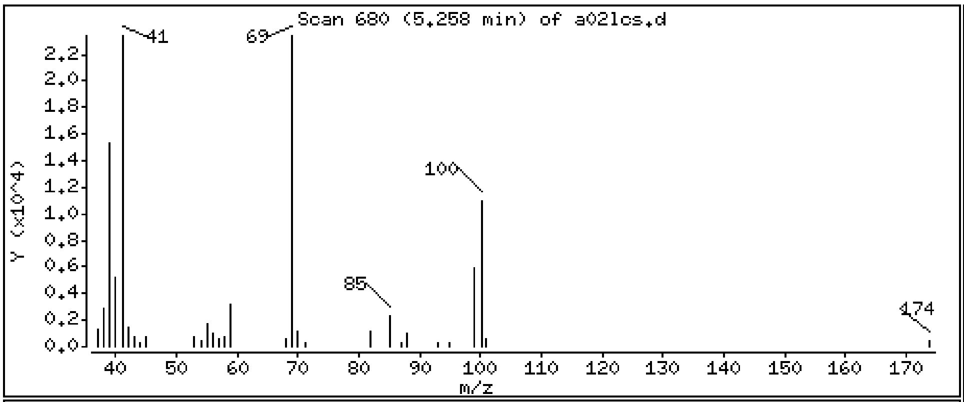
Column phase: DB-624

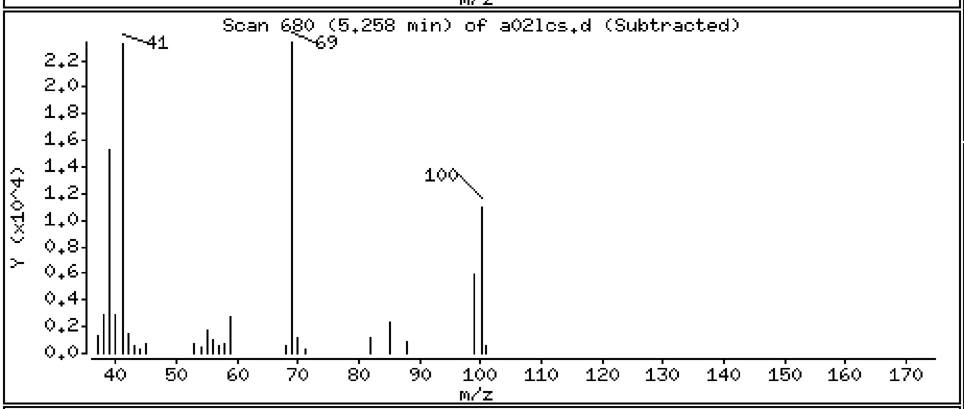
Column diameter: 0.18

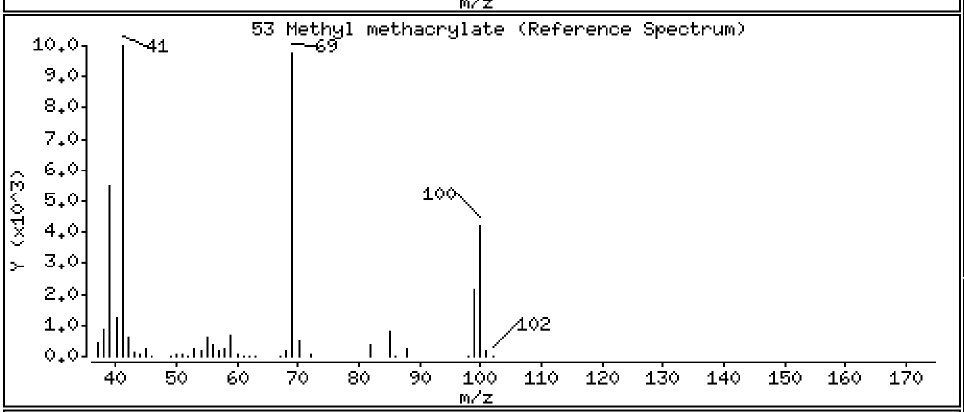
53 Methyl methacrylate

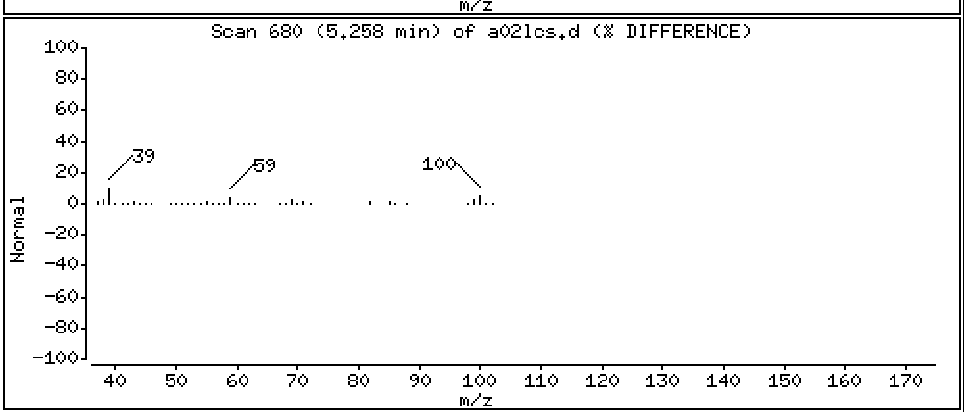
Concentration: 55.6 ppb

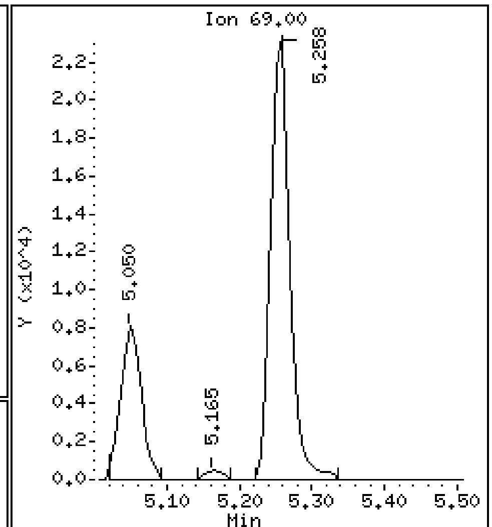
Review Code:

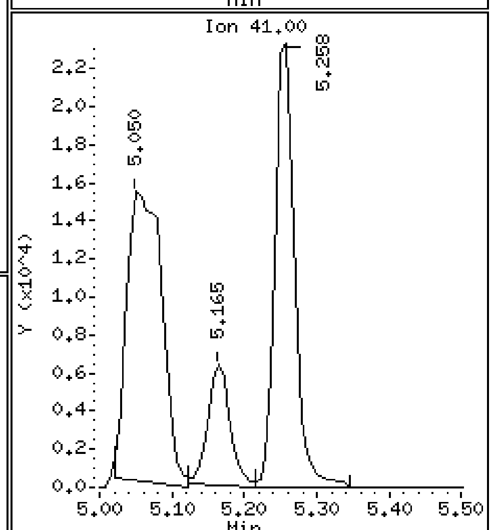


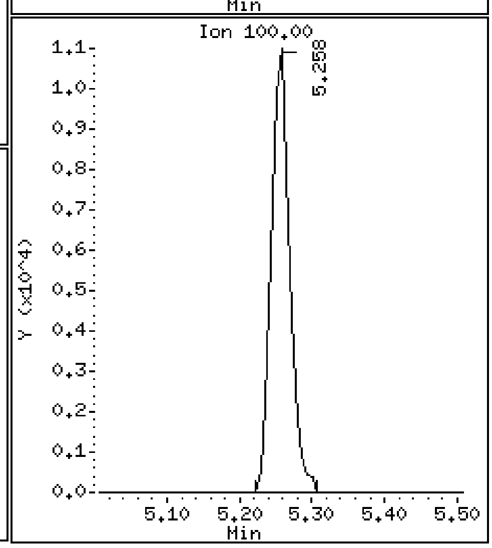












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

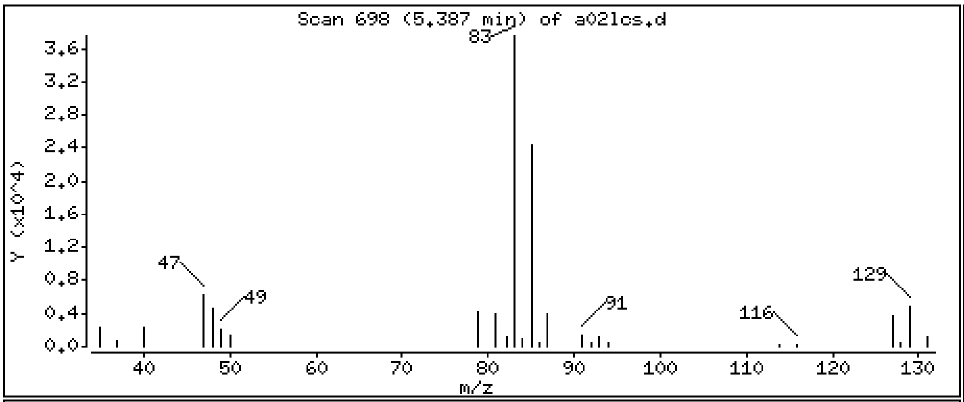
Column phase: DB-624

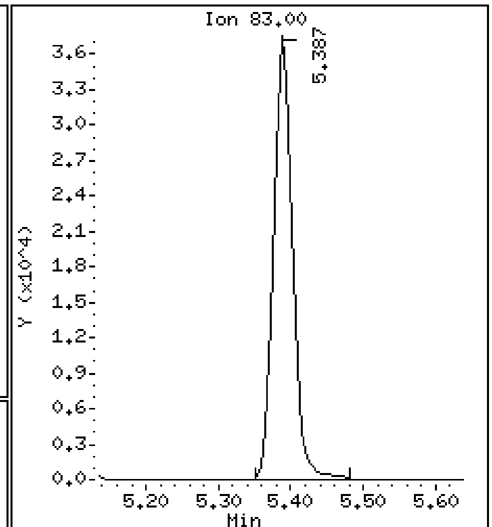
Column diameter: 0.18

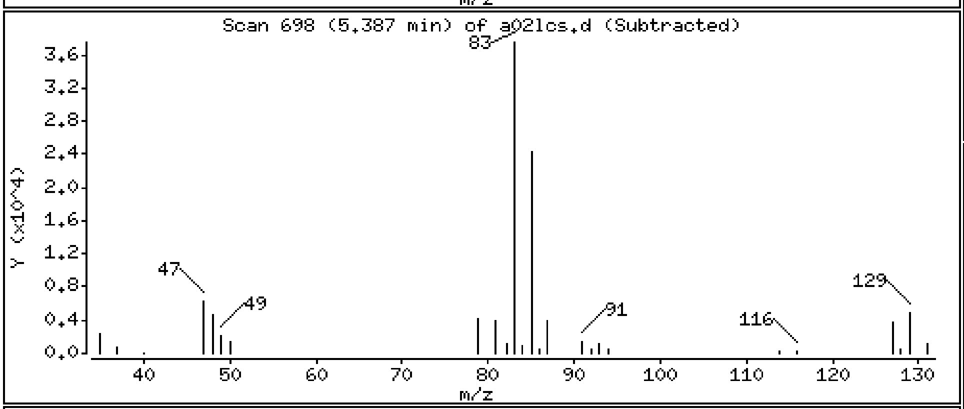
54 Bromodichloromethane

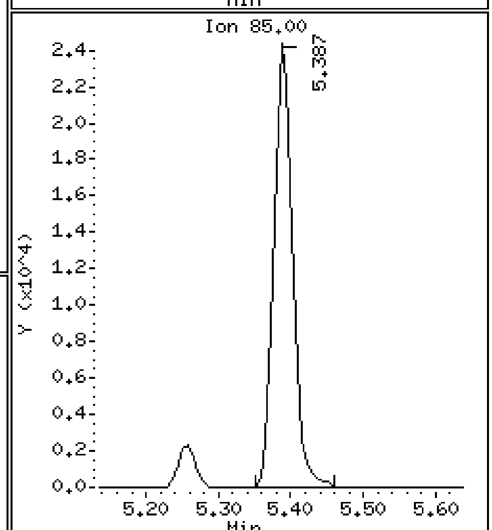
Concentration: 56.0 ppb

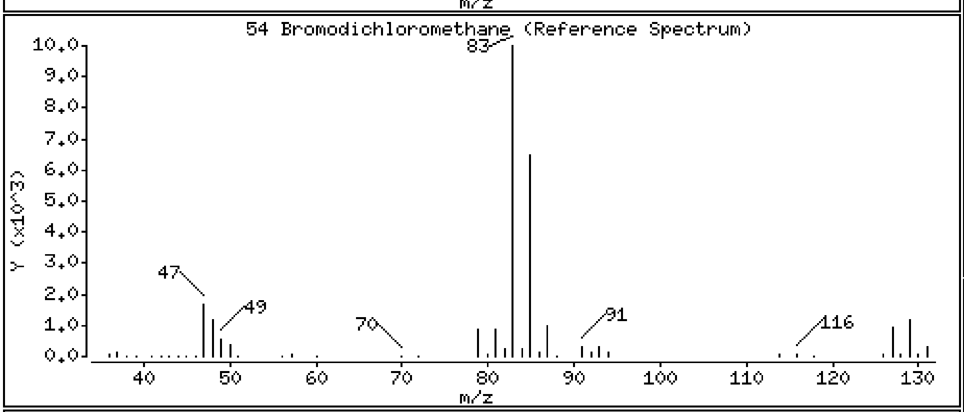
Review Code:

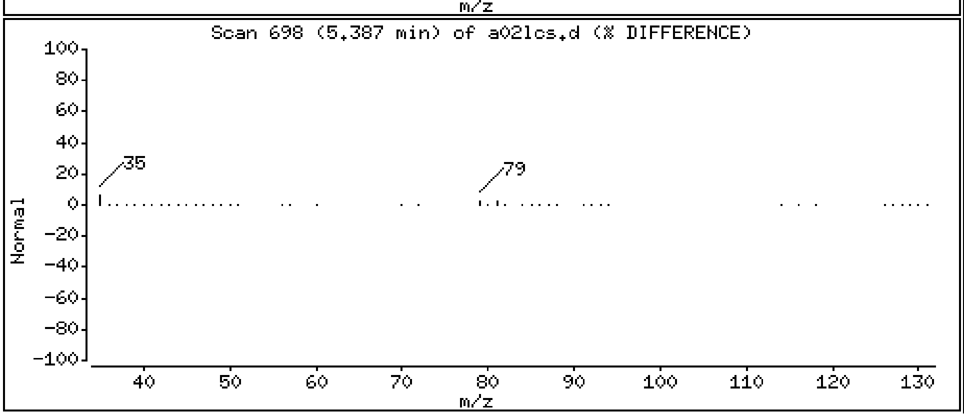


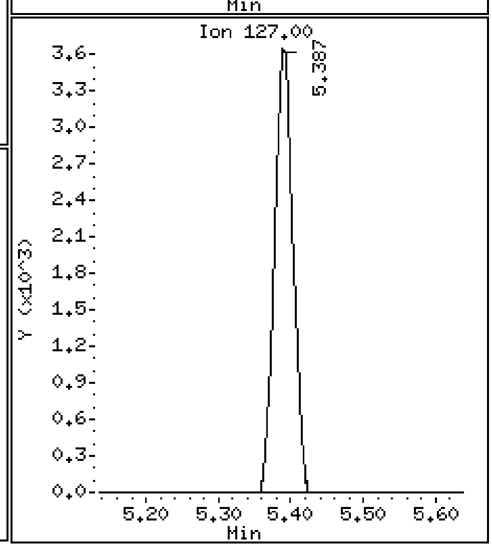












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

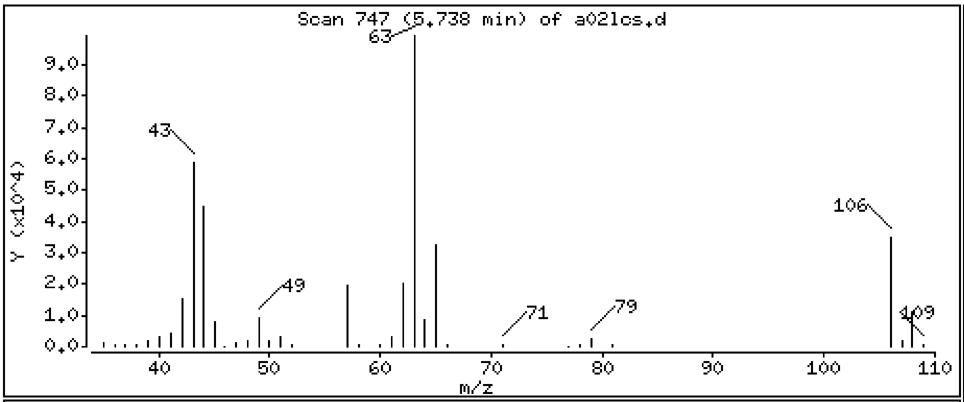
Column phase: DB-624

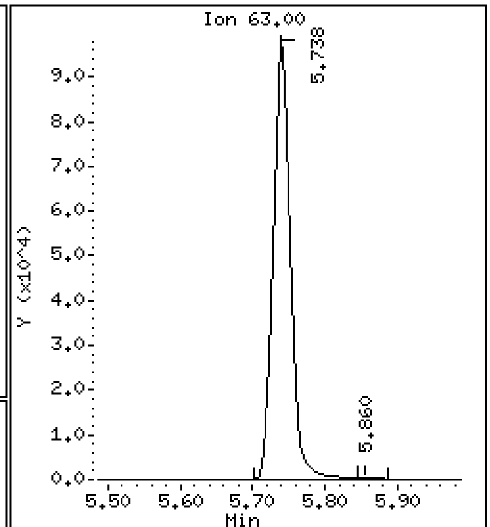
Column diameter: 0.18

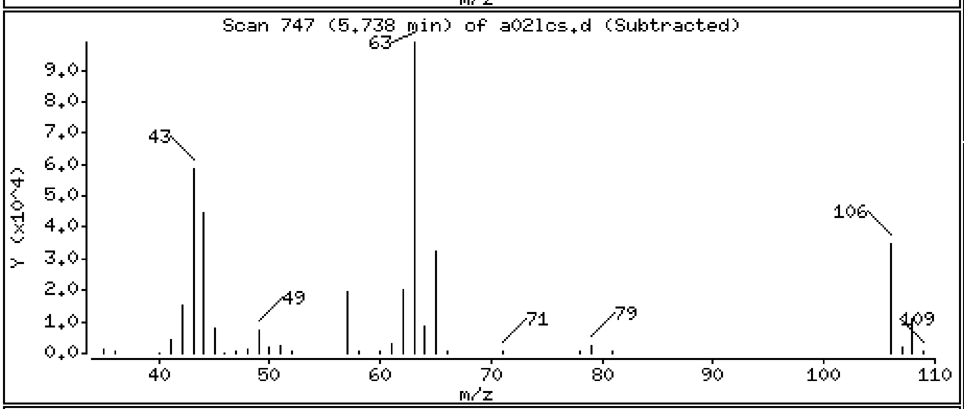
55 2-Chloroethyl vinyl ether

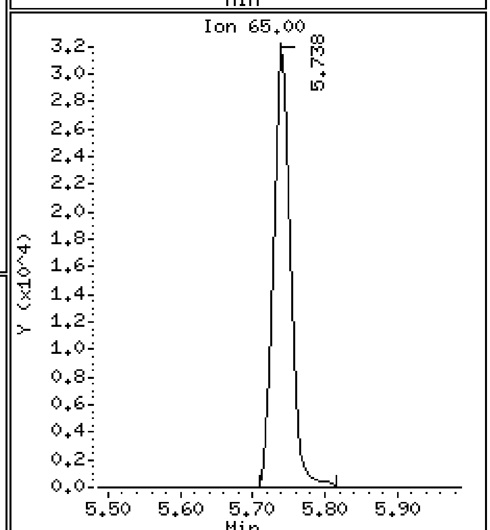
Concentration: 253 ppb

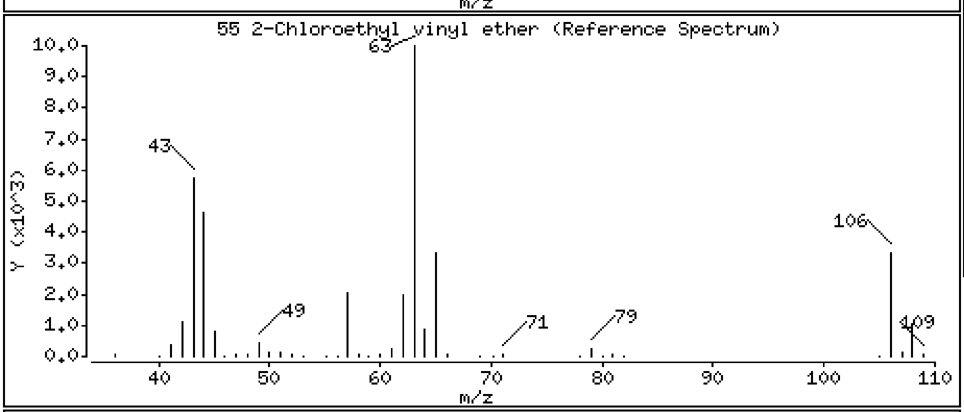
Review Code:

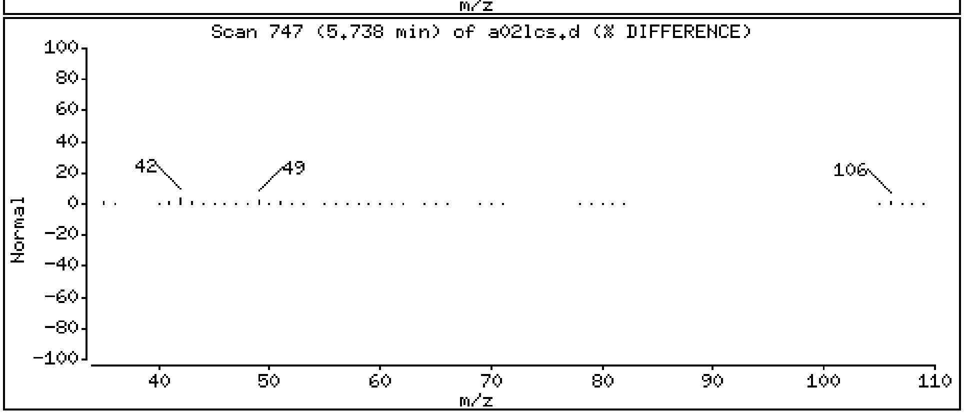












Date : 27-JAN-2023 11:35

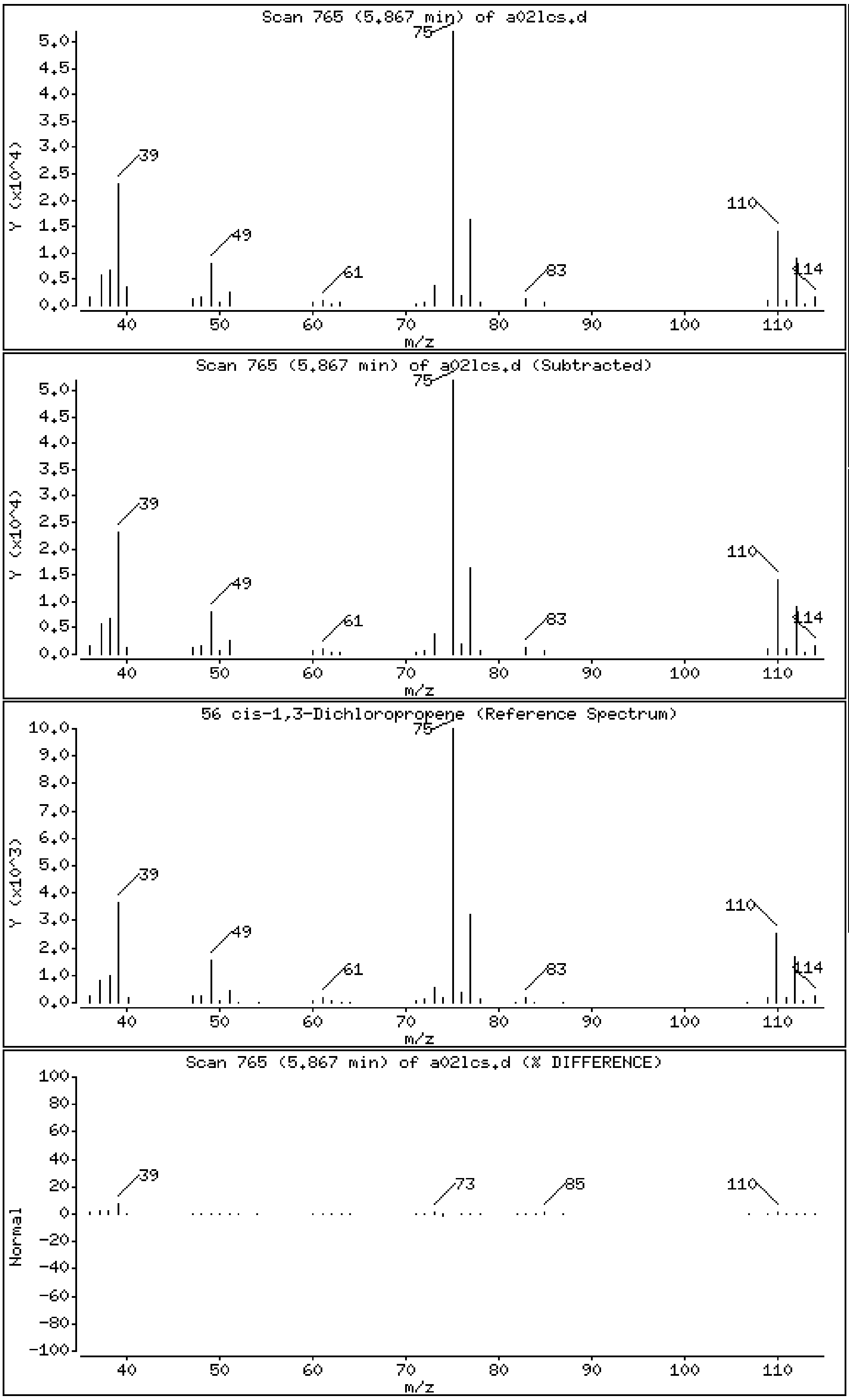
Client ID: Instrument: 50mv2a.i

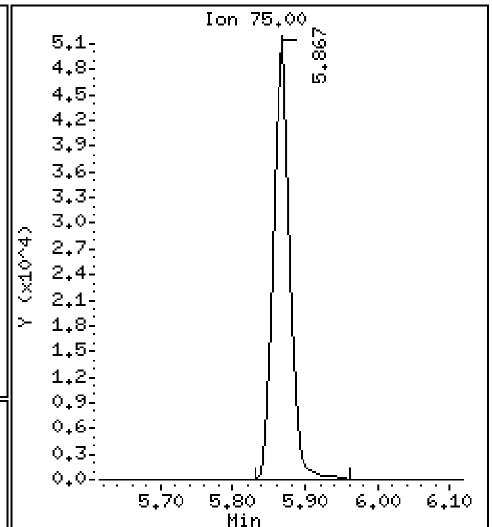
Sample Info: 3289829,336609:5

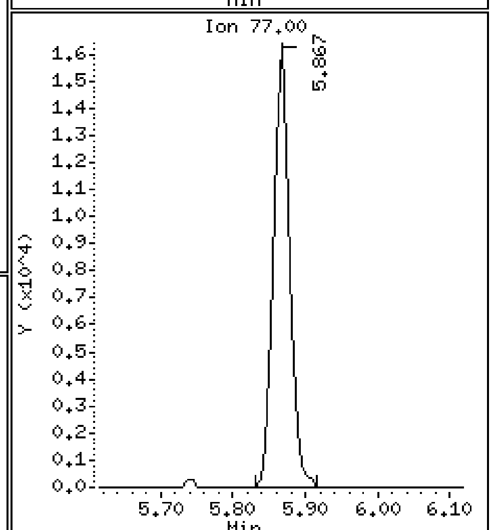
Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

56 cis-1,3-Dichloropropene Concentration: 54.5 ppb Review Code:







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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

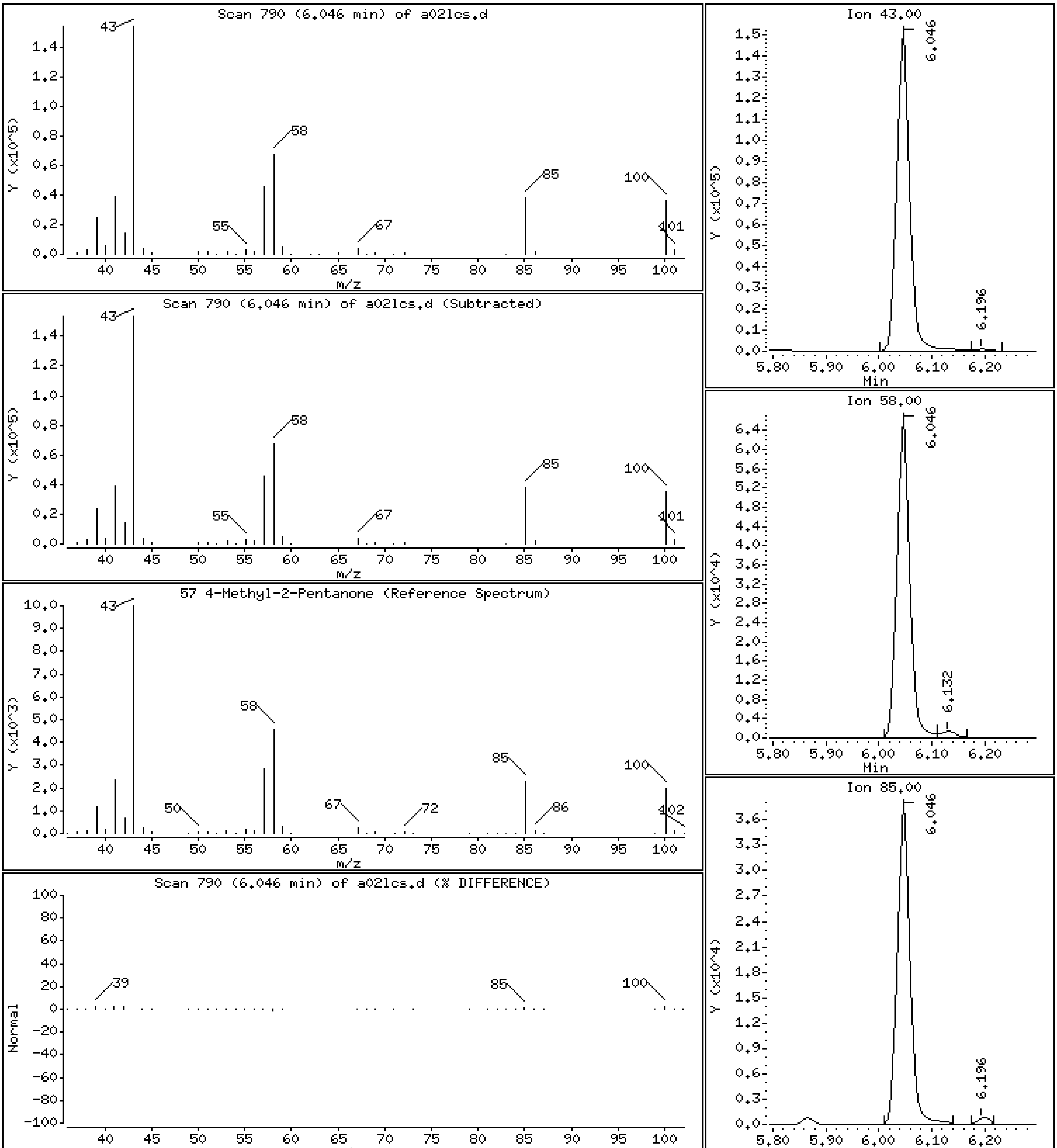
Column phase: DB-624

Column diameter: 0.18

57 4-Methyl-2-Pentanone

Concentration: 231 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

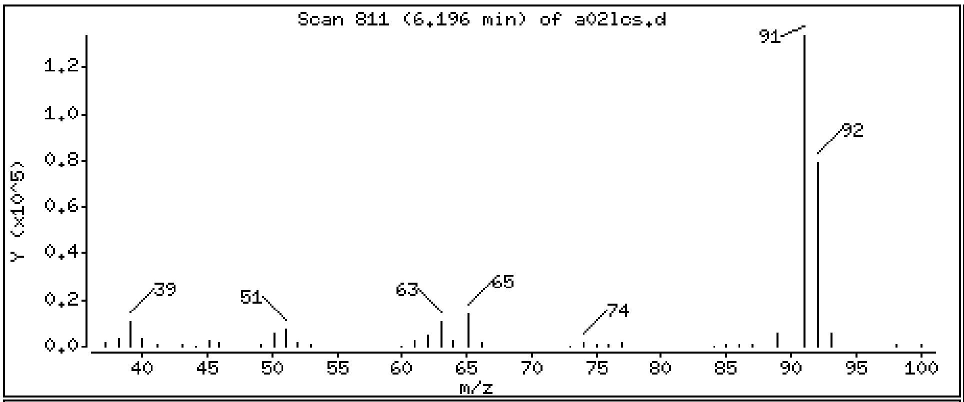
Column phase: DB-624

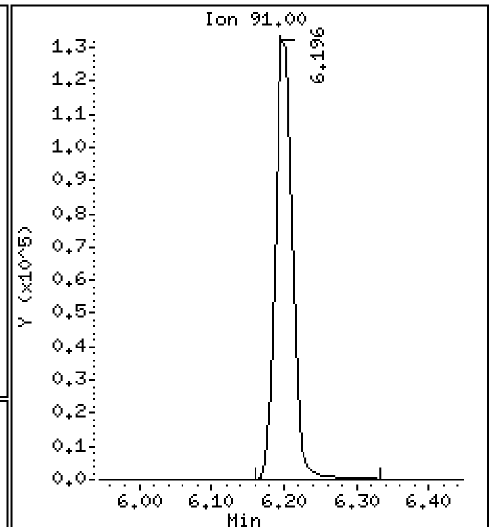
Column diameter: 0.18

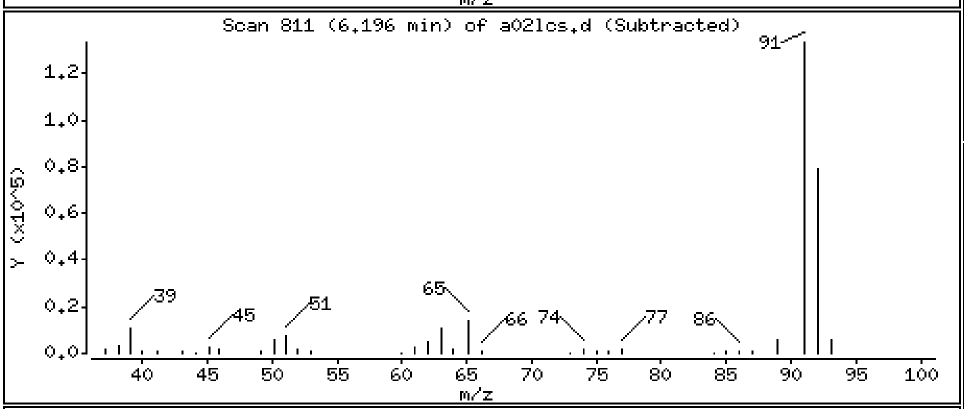
59 Toluene

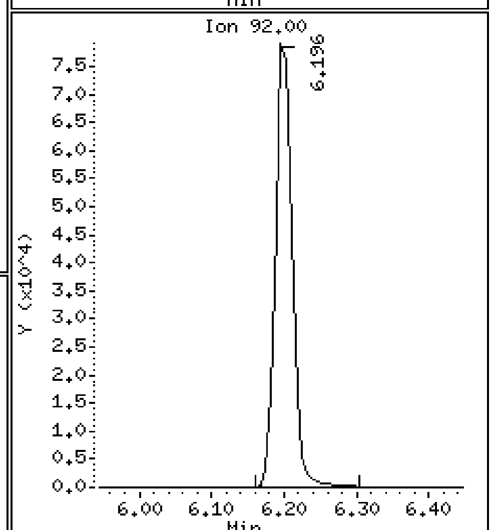
Concentration: 48.8 ppb

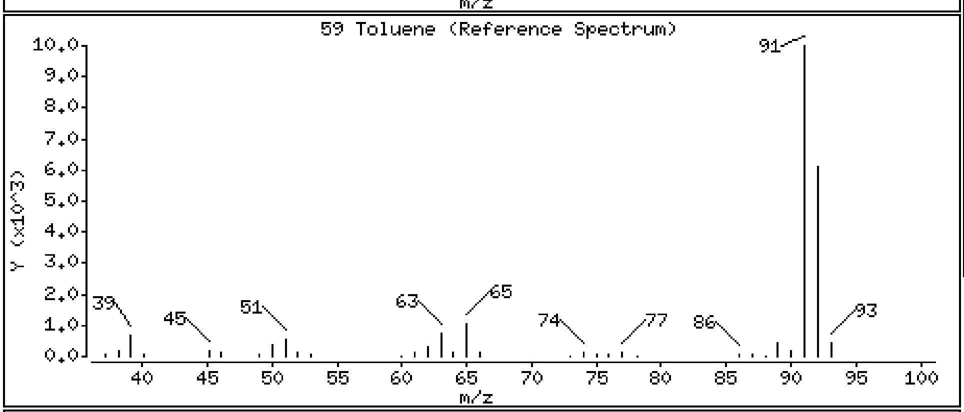
Review Code:

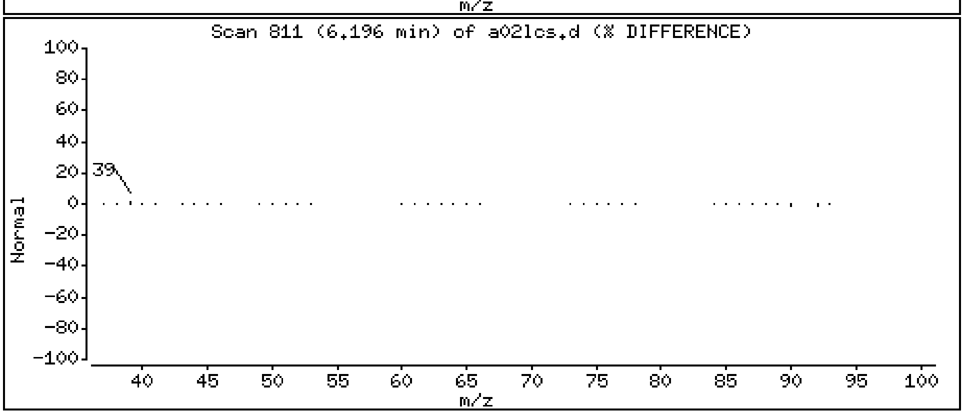












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

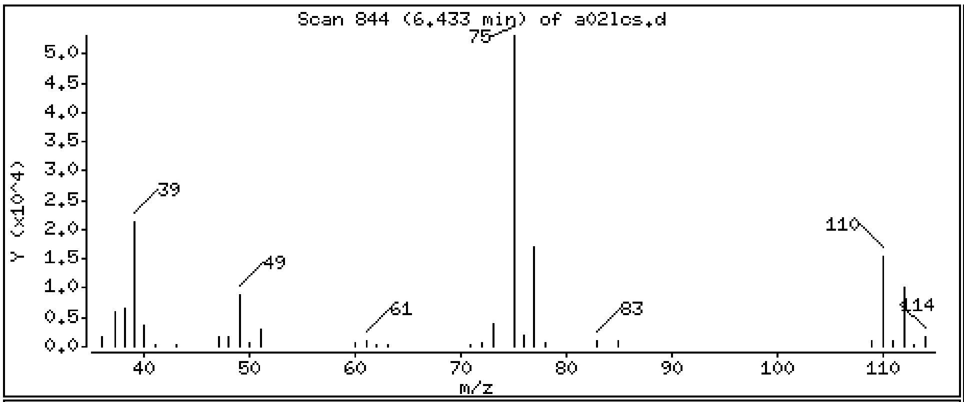
Column phase: DB-624

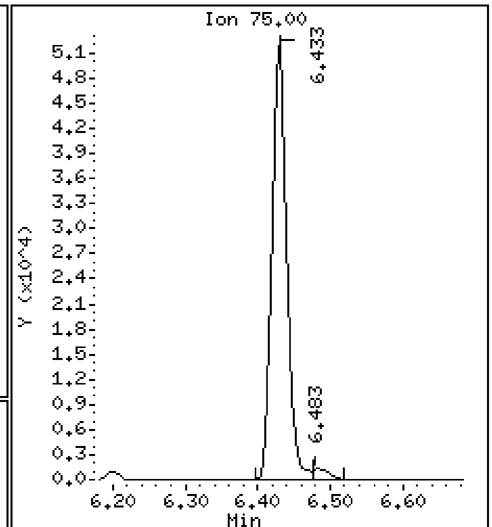
Column diameter: 0.18

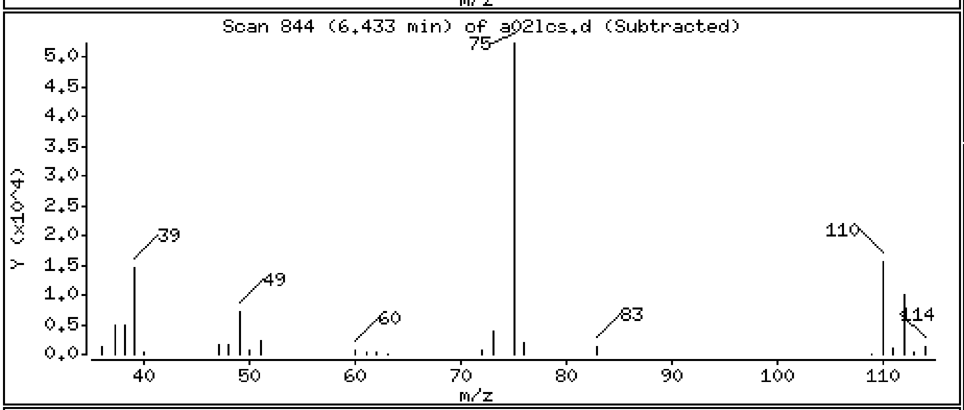
60 trans-1,3-Dichloropropene

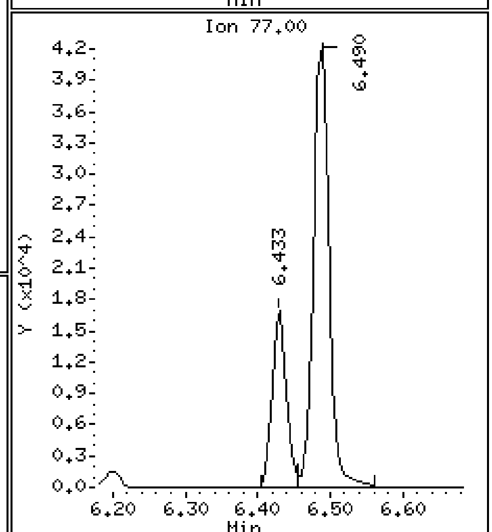
Concentration: 53.9 ppb

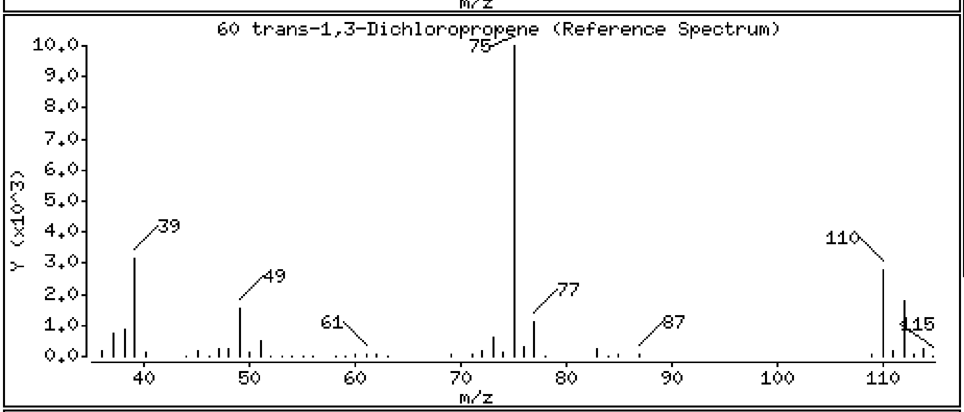
Review Code:

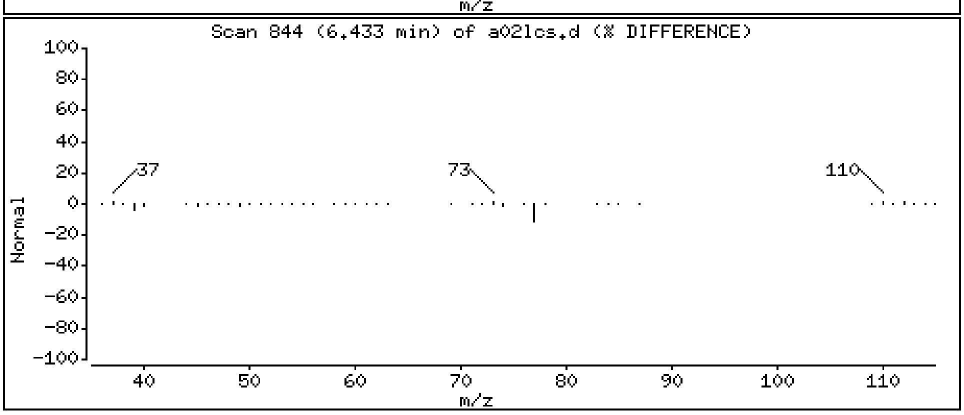












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Date : 27-JAN-2023 11:35

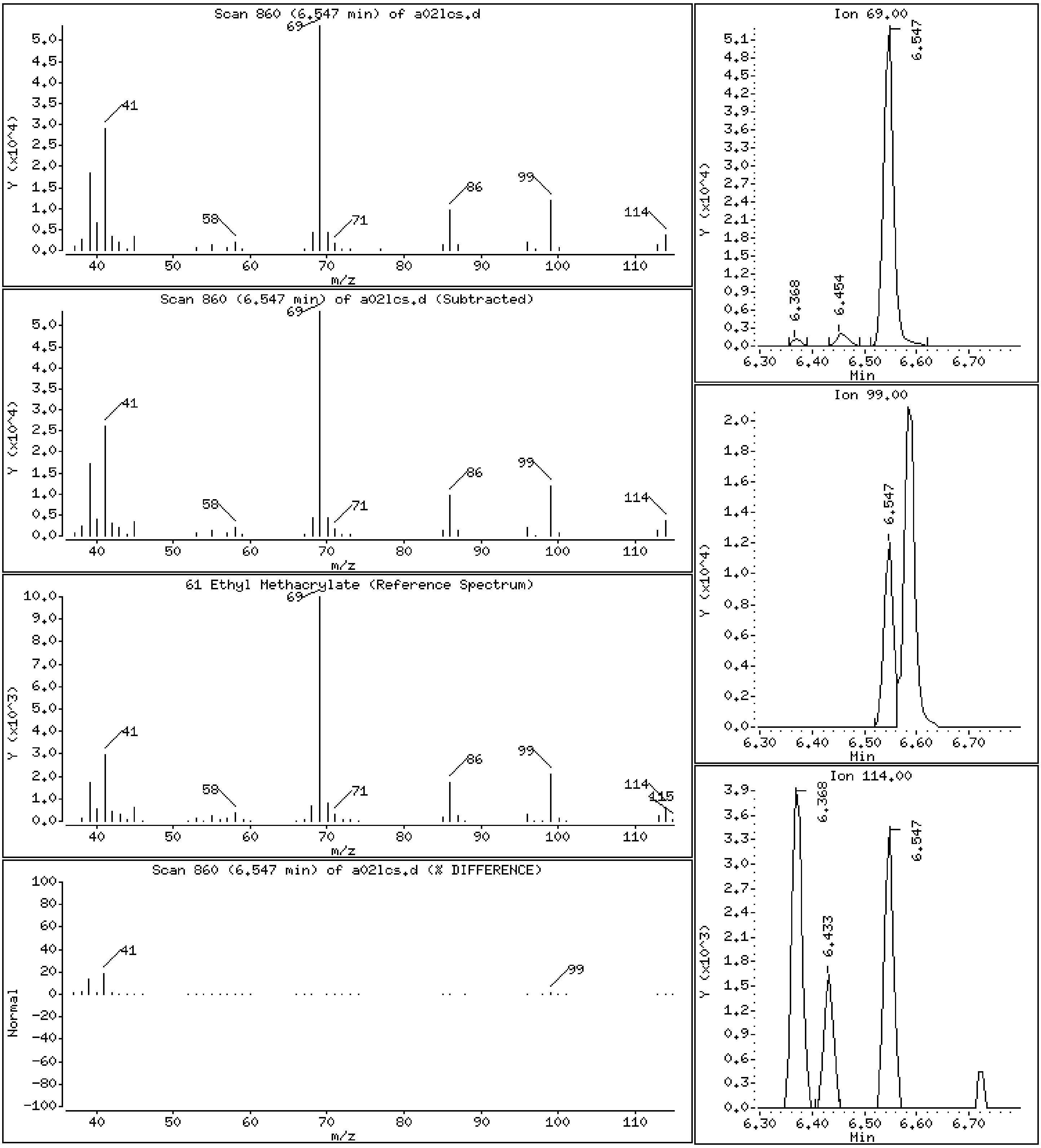
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

61 Ethyl Methacrylate Concentration: 52.6 ppb Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Column phase: DB-624

Instrument: 50mv2a.i

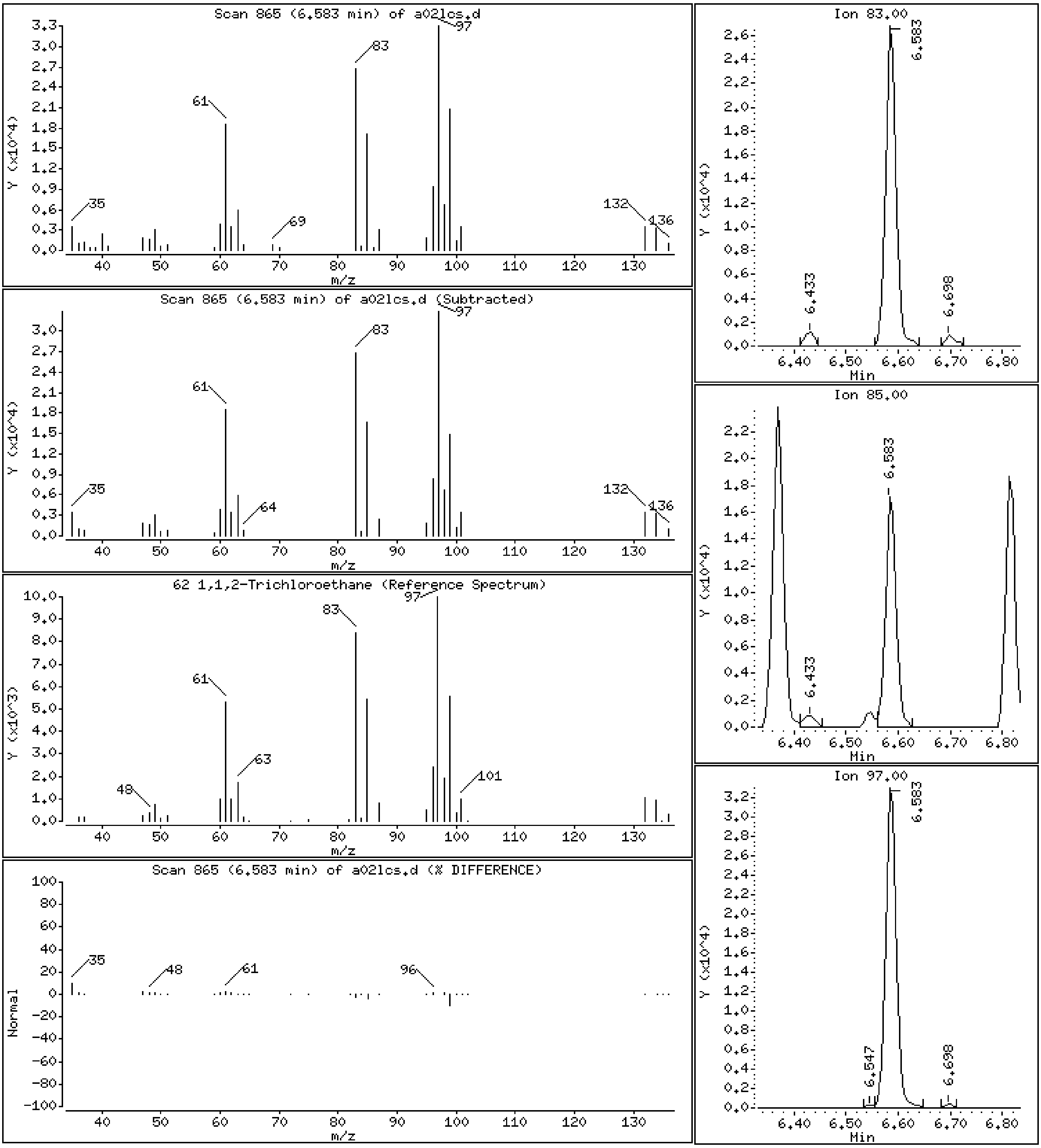
Operator: tkg

Column diameter: 0.18

62 1,1,2-Trichloroethane

Concentration: 51.2 ppb

Review Code:



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Date : 27-JAN-2023 11:35

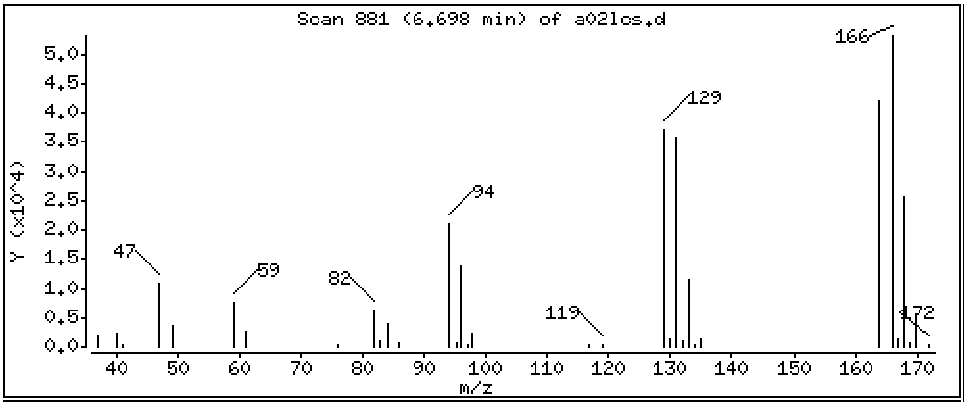
Client ID: Instrument: 50mv2a.i

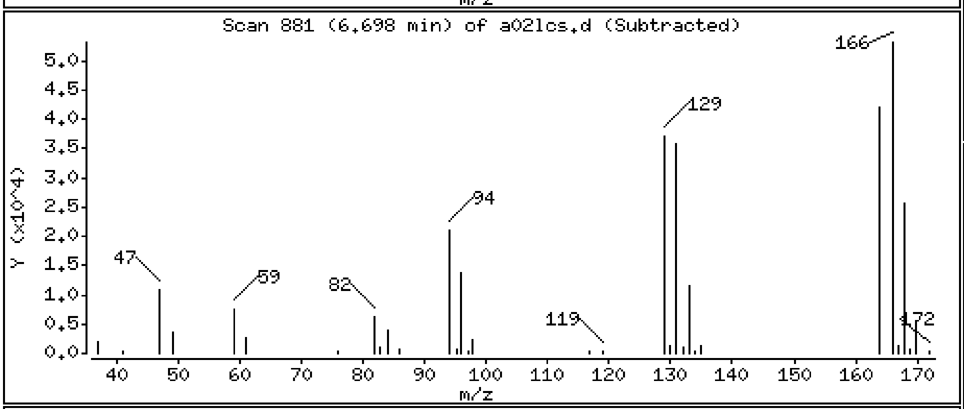
Sample Info: 3289829,336609:5

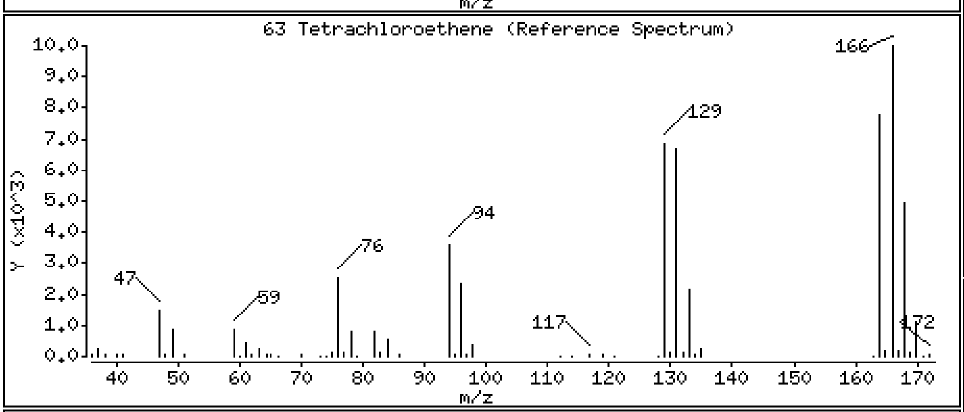
Purge Volume: 5.0 Operator: tkg

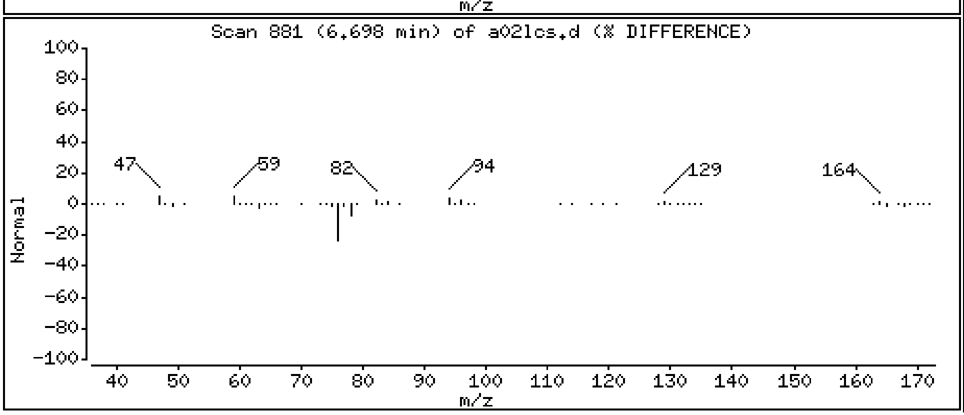
Column phase: DB-624 Column diameter: 0.18

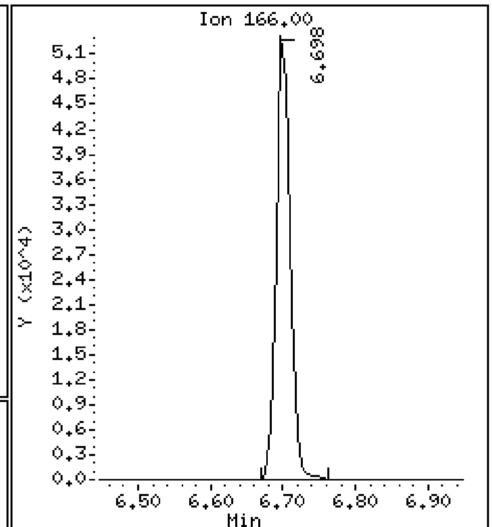
63 Tetrachloroethene Concentration: 51.5 ppb Review Code:

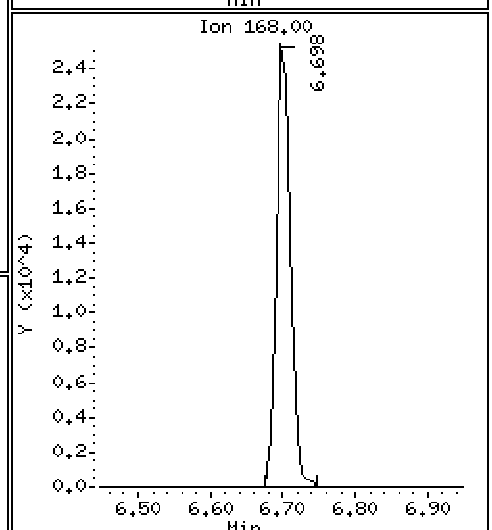


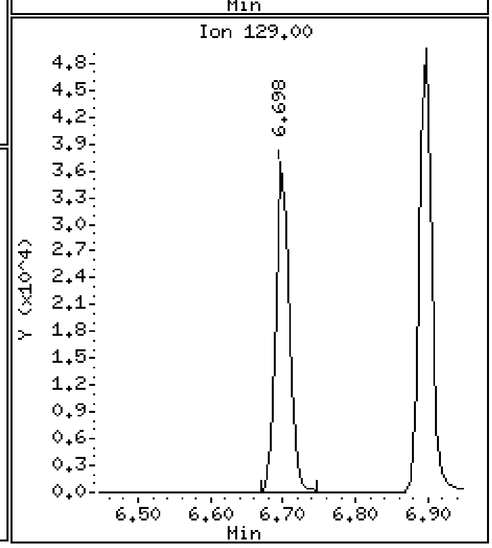












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

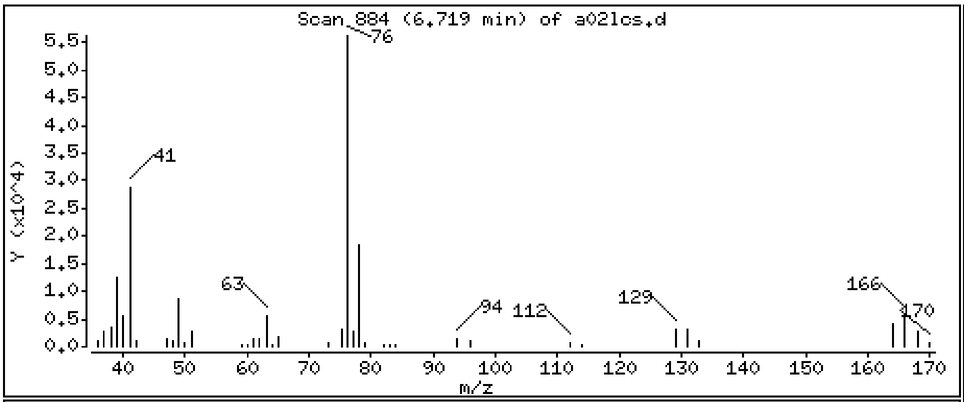
Column phase: DB-624

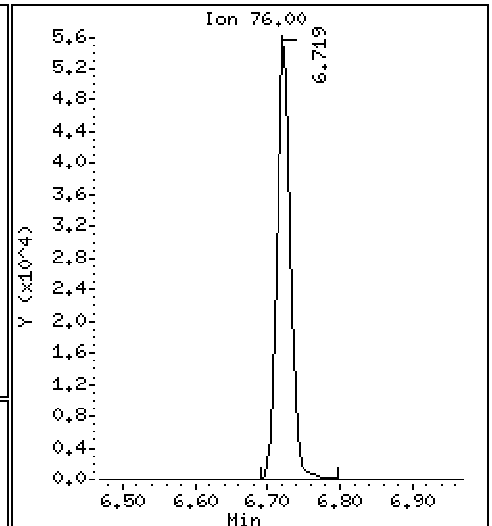
Column diameter: 0.18

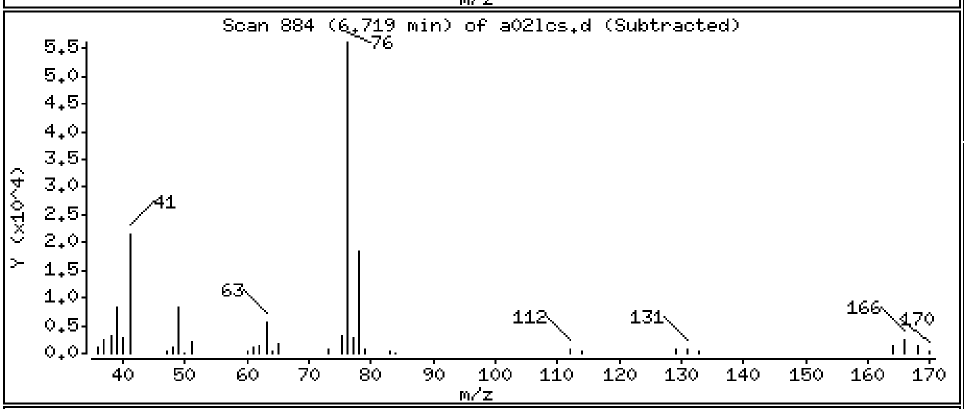
64 1,3-Dichloropropane

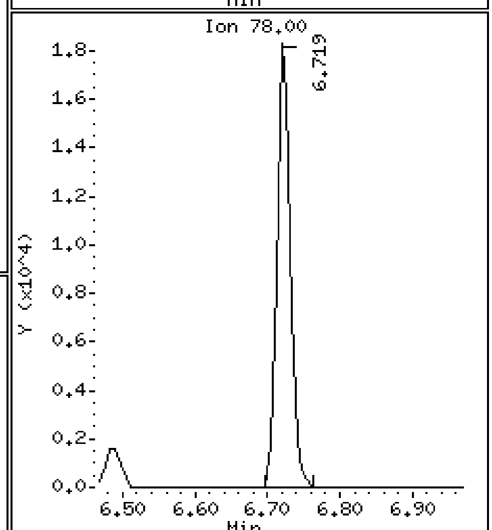
Concentration: 49.8 ppb

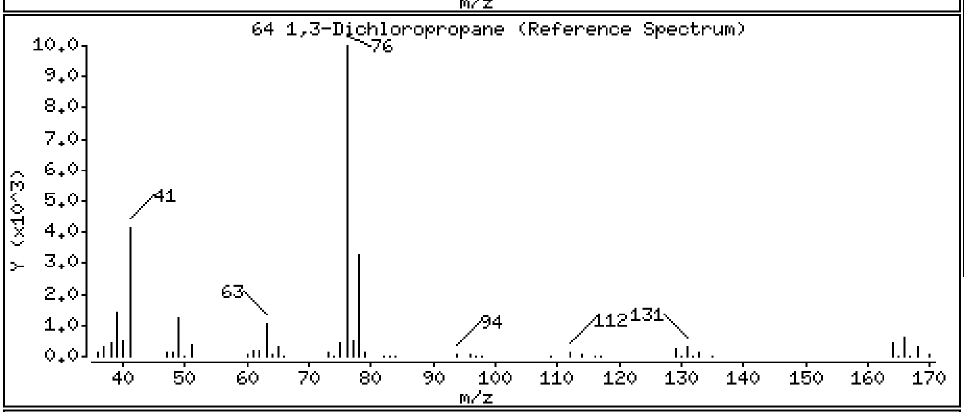
Review Code:

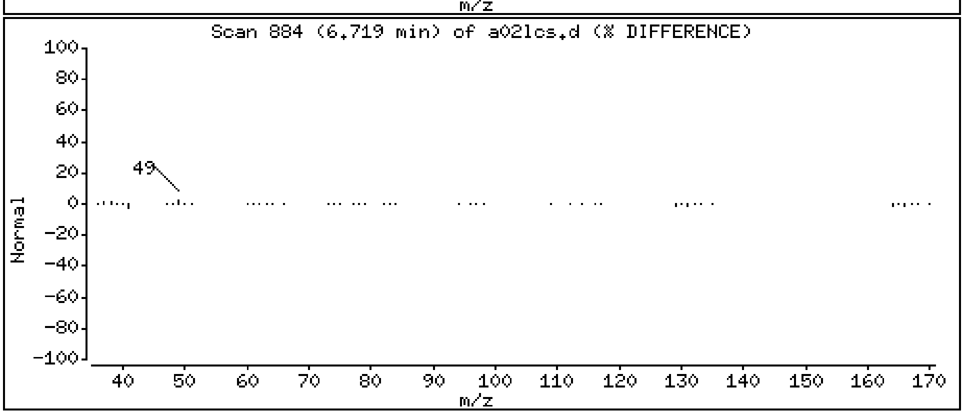












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Date : 27-JAN-2023 11:35

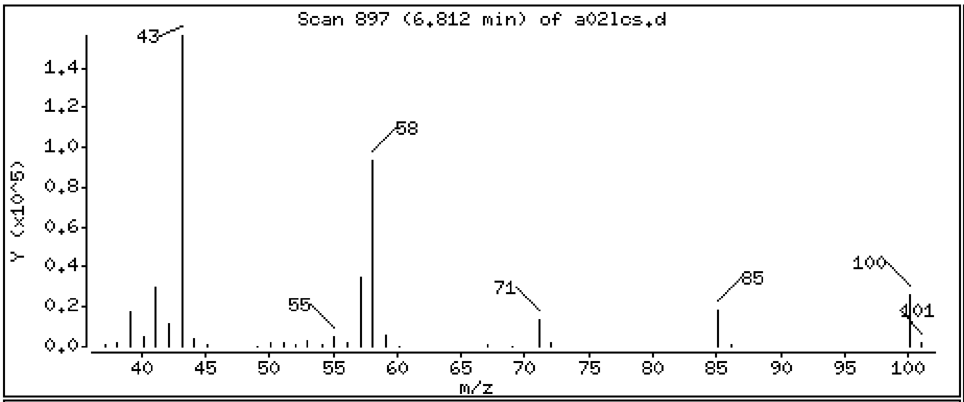
Client ID: Instrument: 50mv2a.i

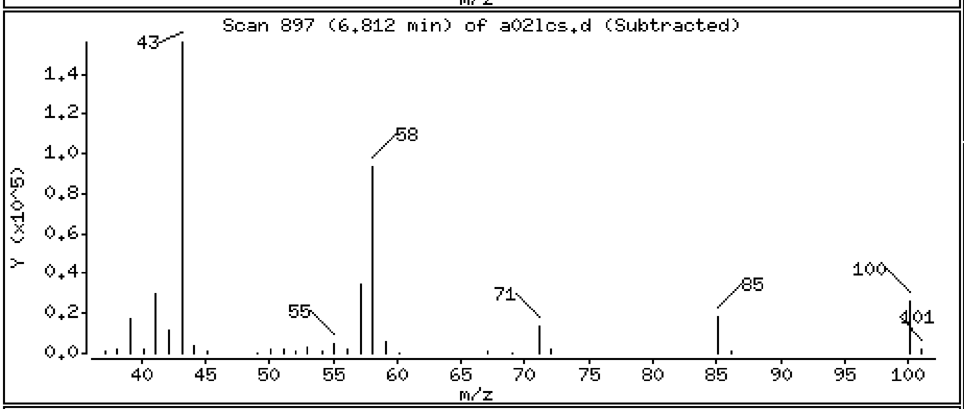
Sample Info: 3289829,336609:5

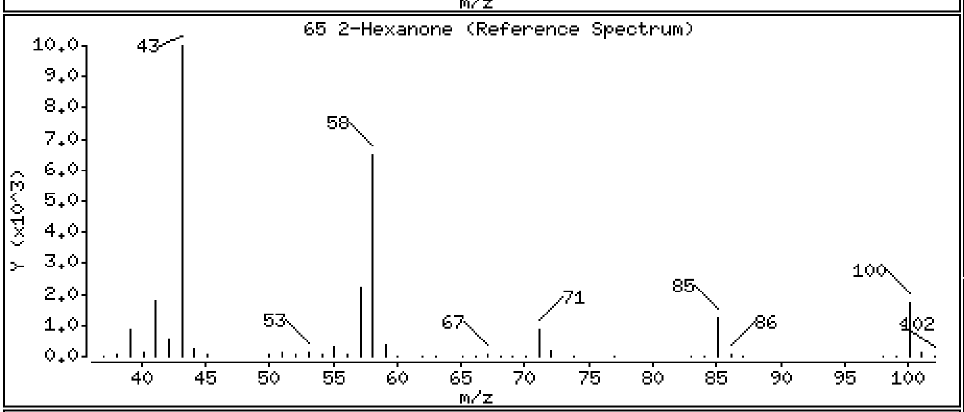
Purge Volume: 5.0 Operator: tkg

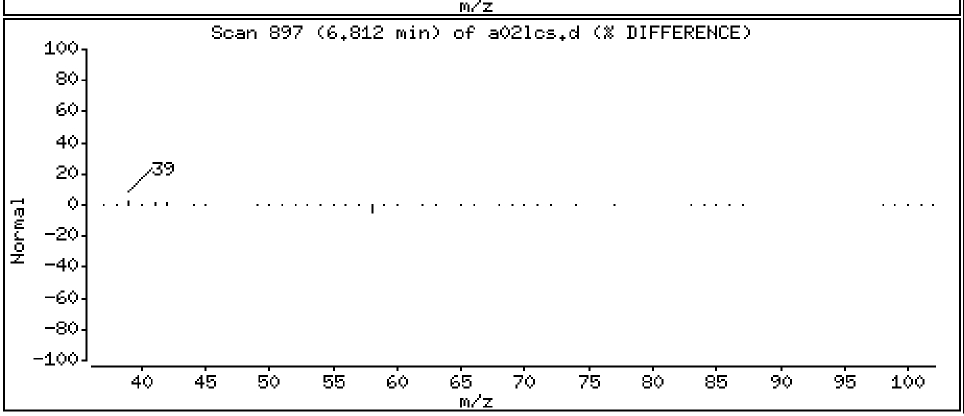
Column phase: DB-624 Column diameter: 0.18

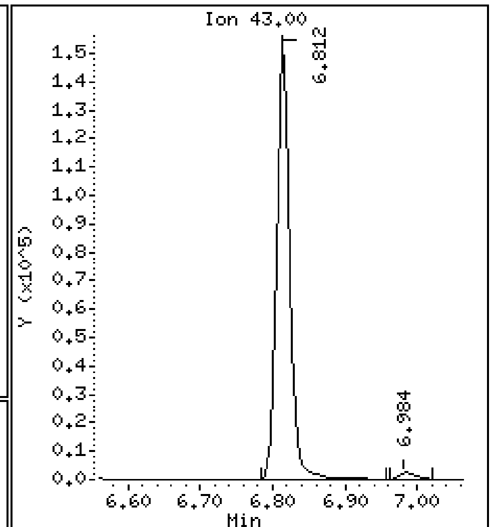
65 2-Hexanone Concentration: 248 ppb Review Code:

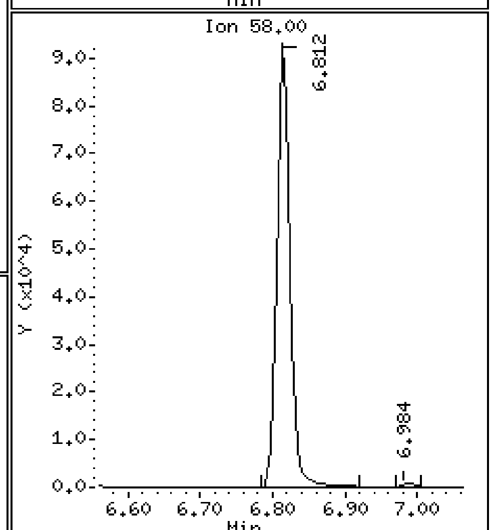


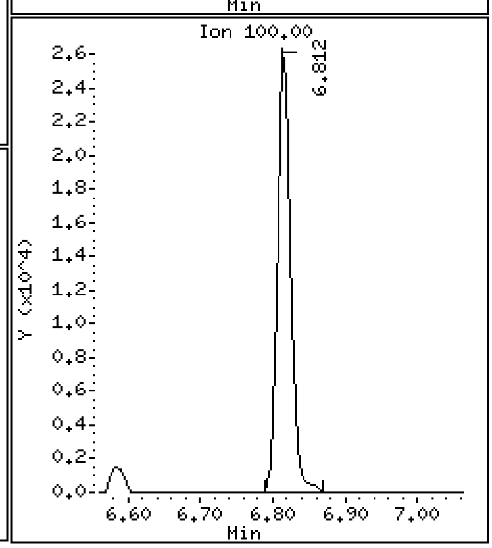












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

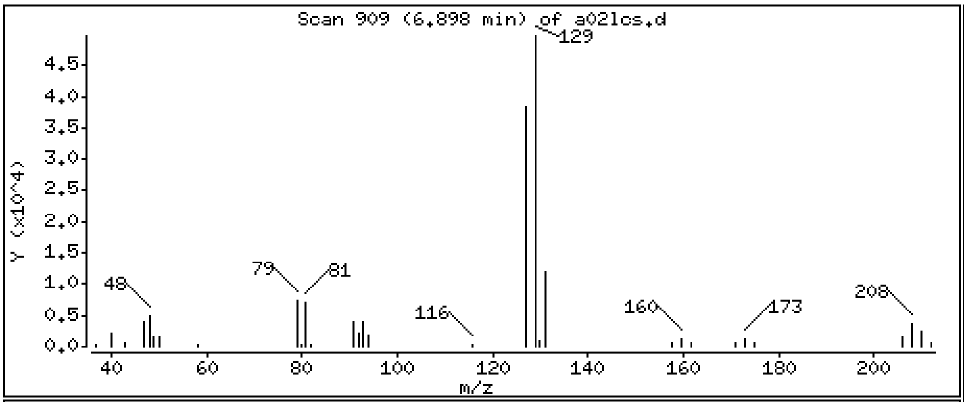
Column phase: DB-624

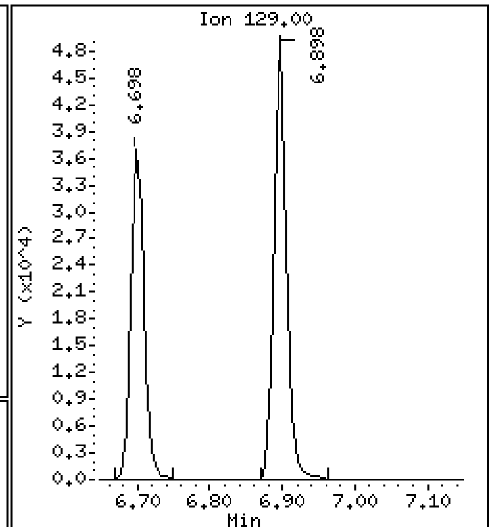
Column diameter: 0.18

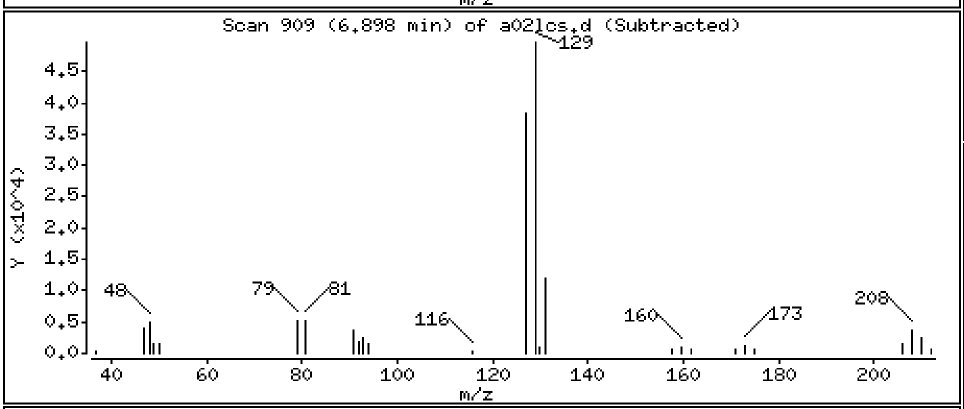
66 Dibromochloromethane

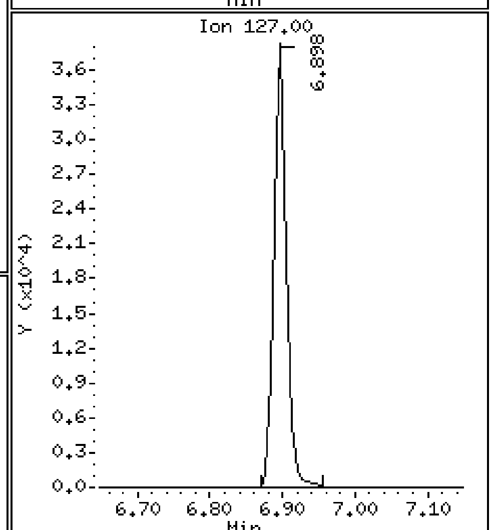
Concentration: 54.6 ppb

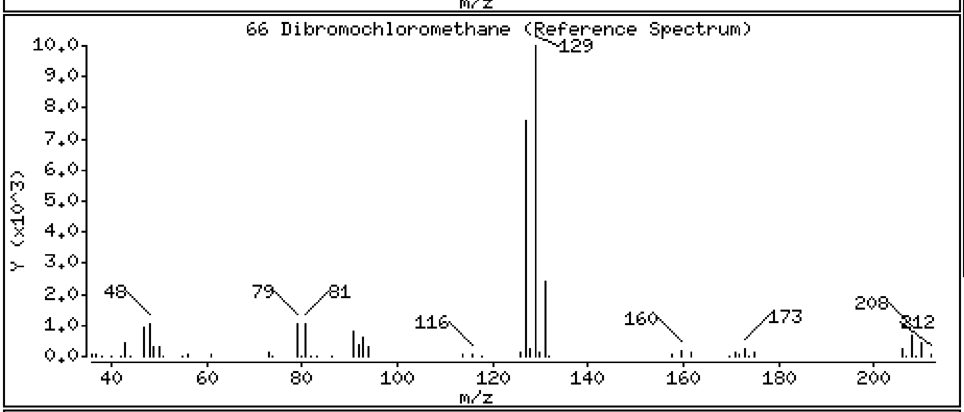
Review Code:

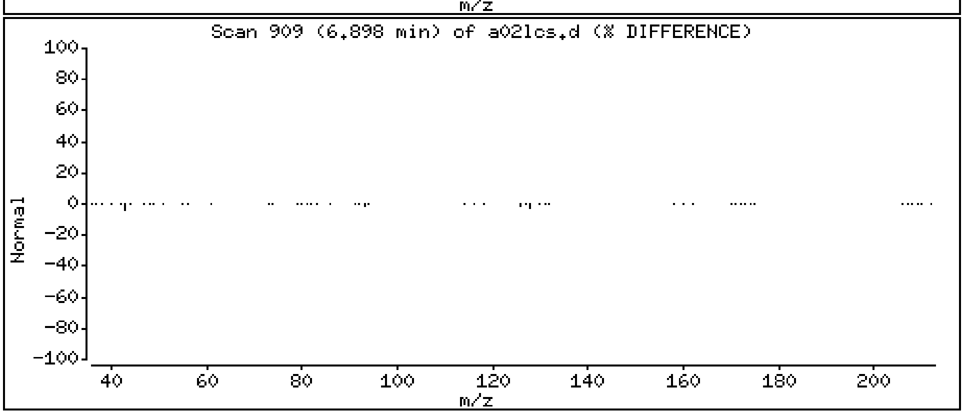












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

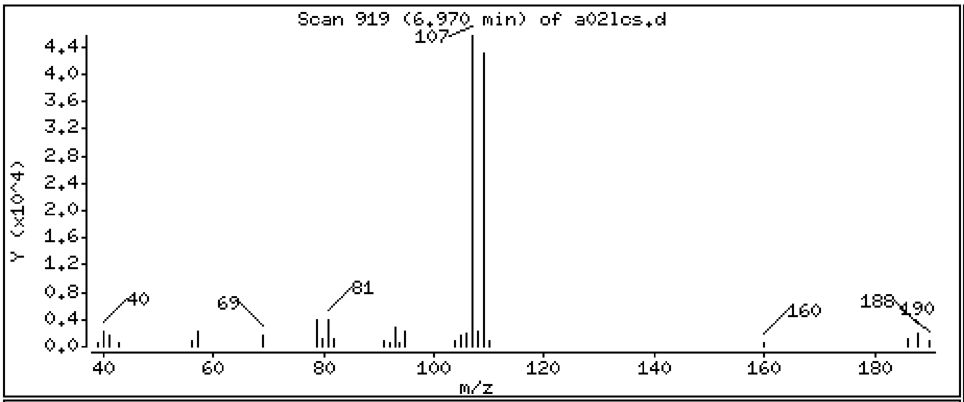
Column phase: DB-624

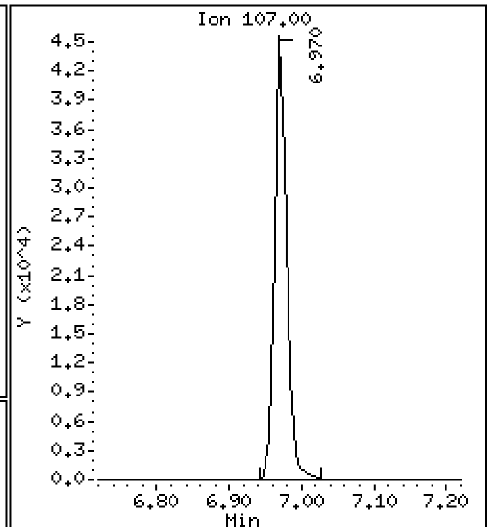
Column diameter: 0.18

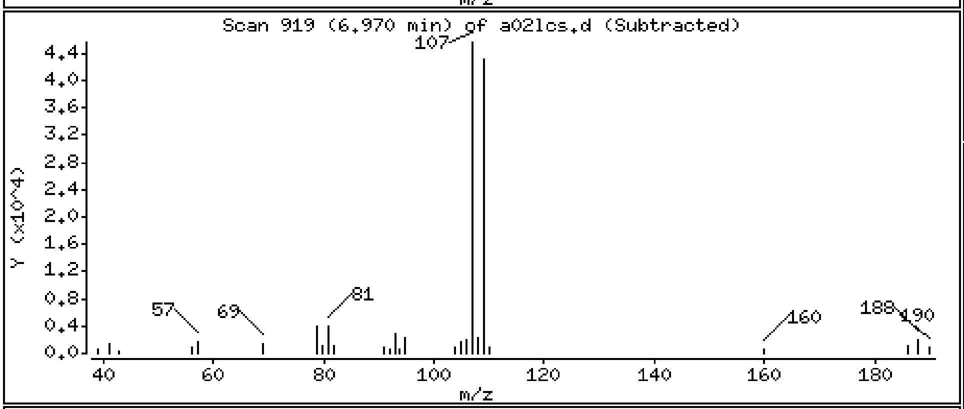
67 1,2-Dibromoethane

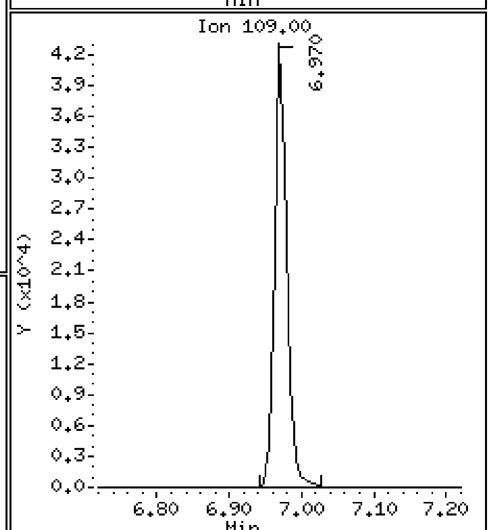
Concentration: 54.2 ppb

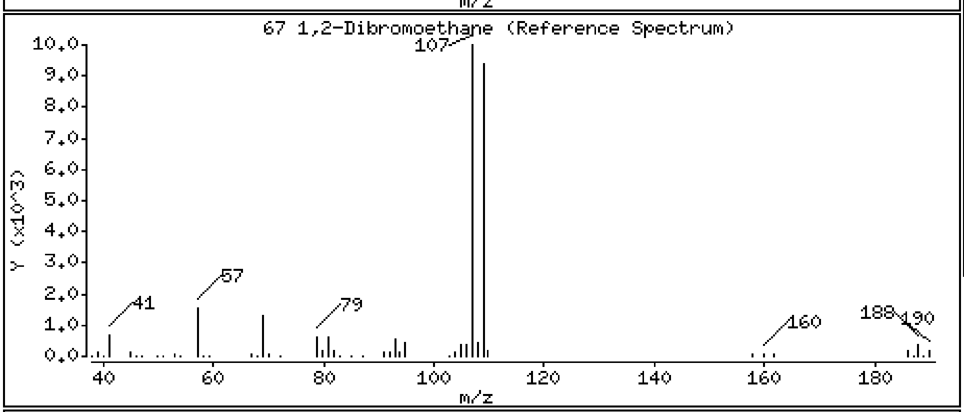
Review Code:

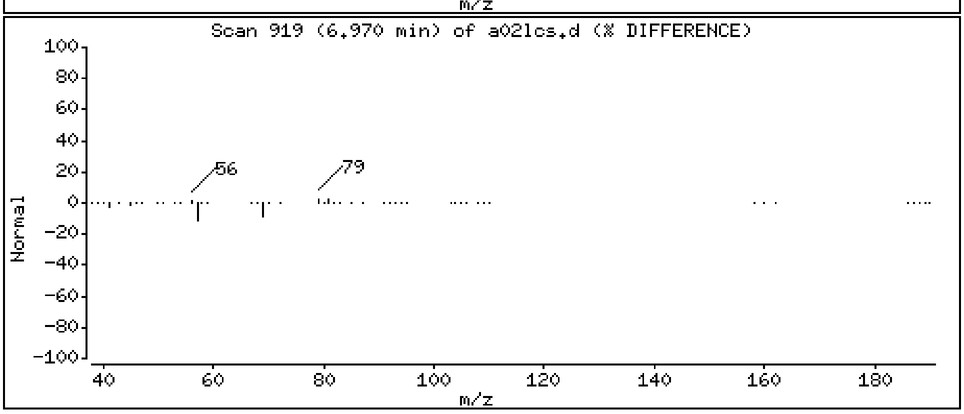












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

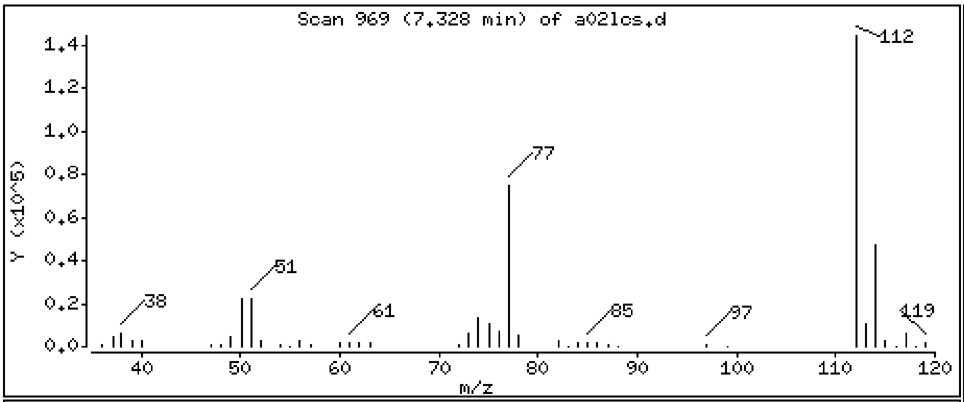
Column phase: DB-624

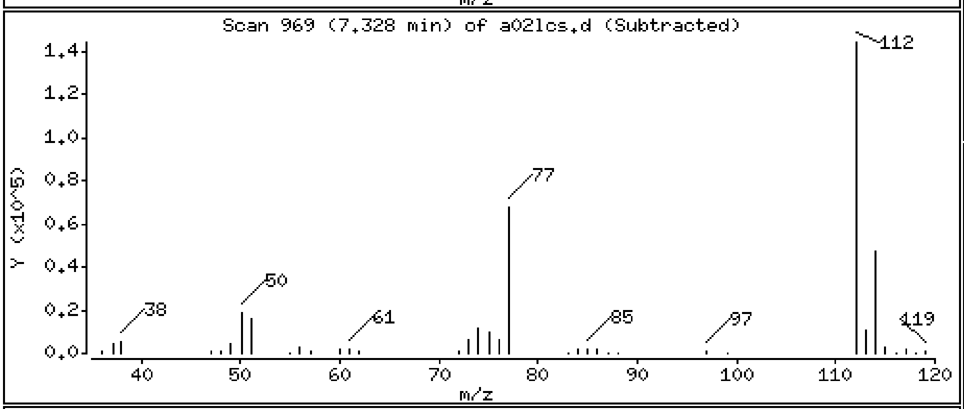
Column diameter: 0.18

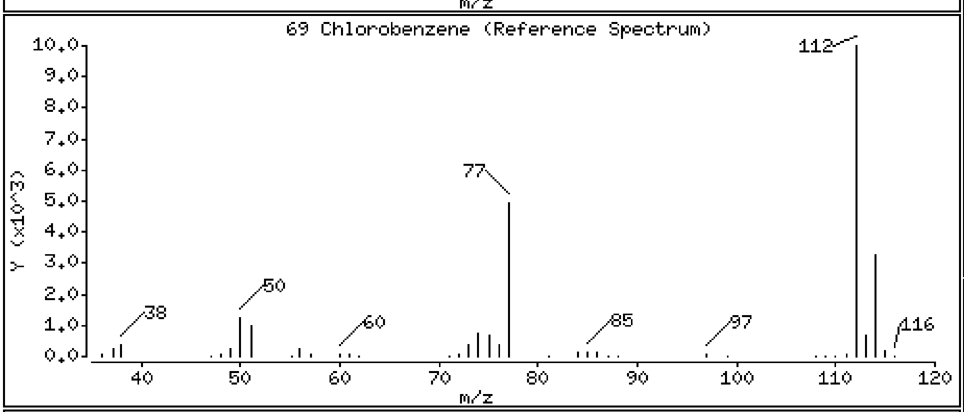
69 Chlorobenzene

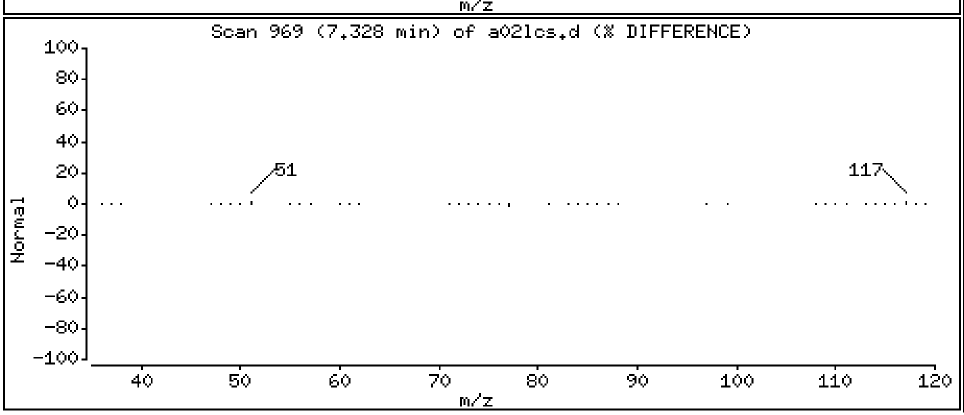
Concentration: 49.3 ppb

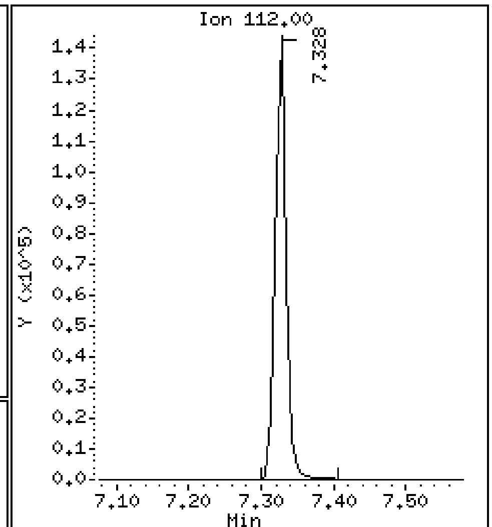
Review Code:

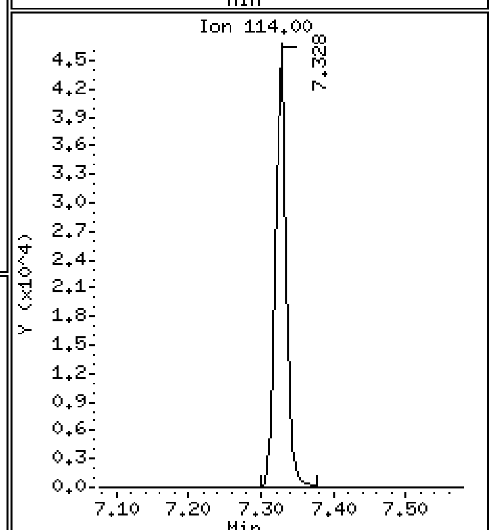


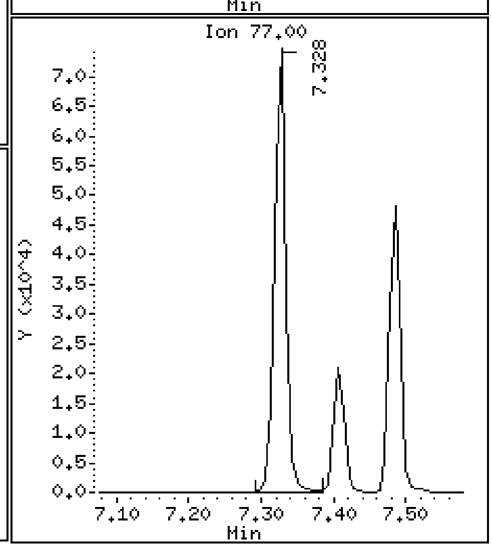












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Date : 27-JAN-2023 11:35

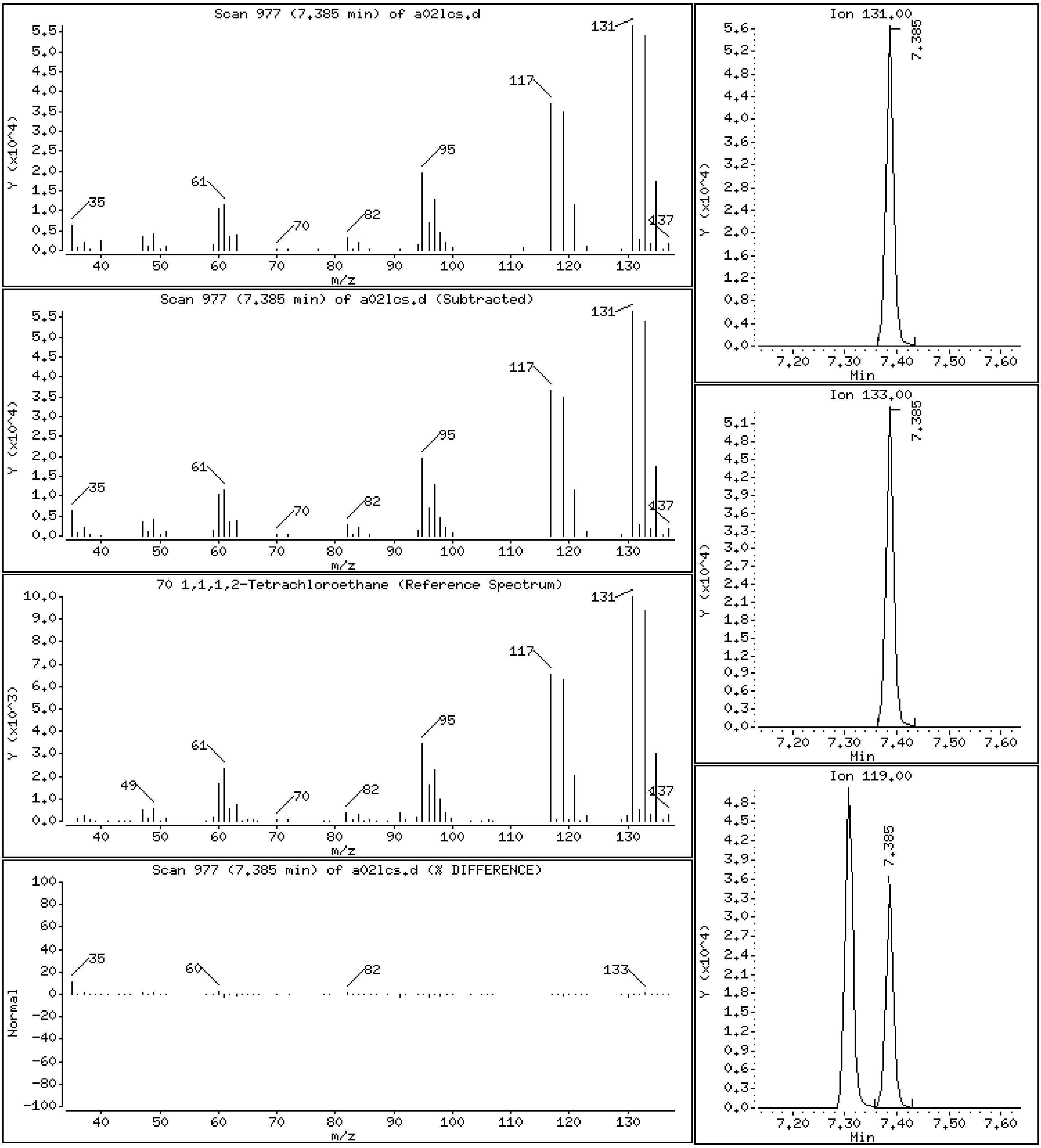
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

70 1,1,1,2-Tetrachloroethane Concentration: 53.4 ppb Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

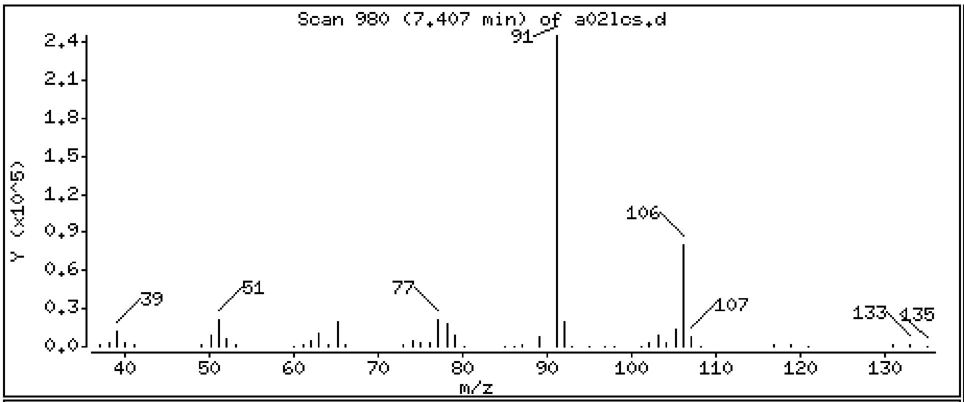
Column phase: DB-624

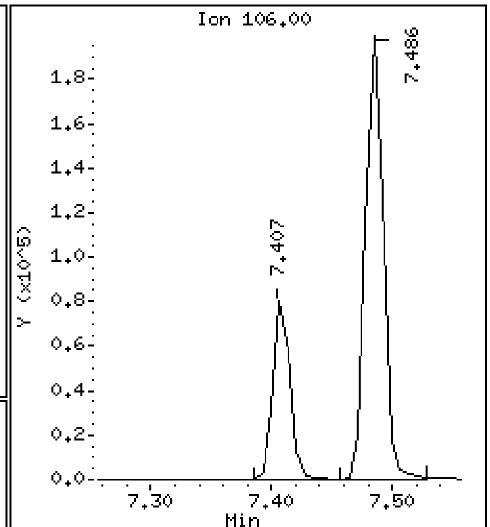
Column diameter: 0.18

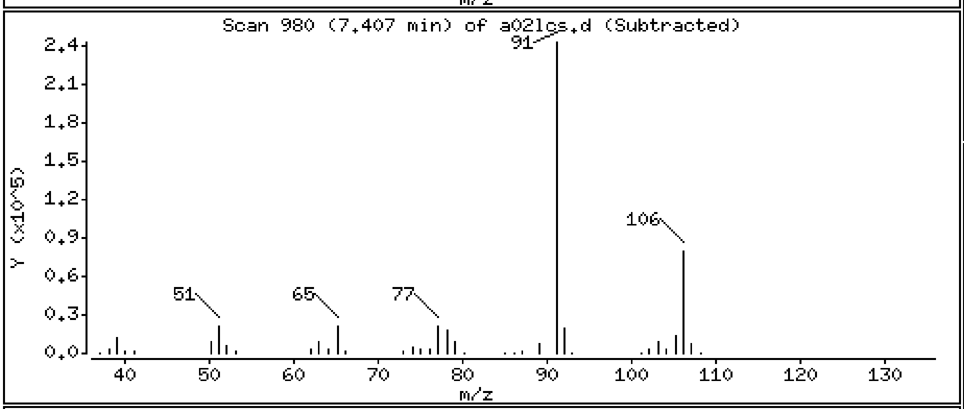
71 Ethylbenzene

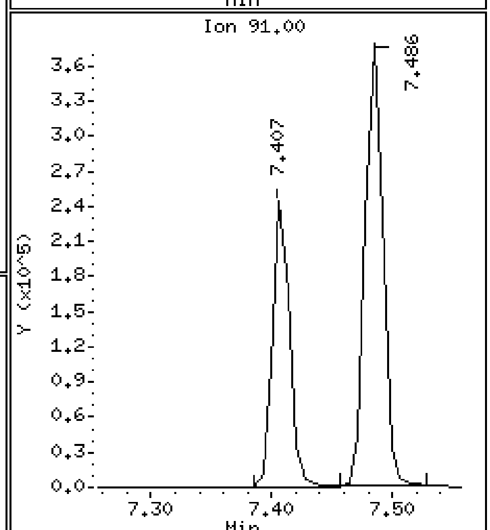
Concentration: 50.2 ppb

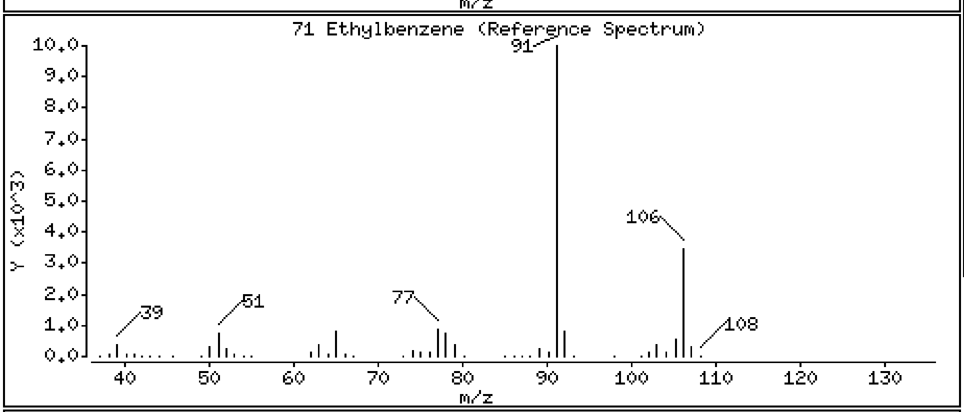
Review Code:

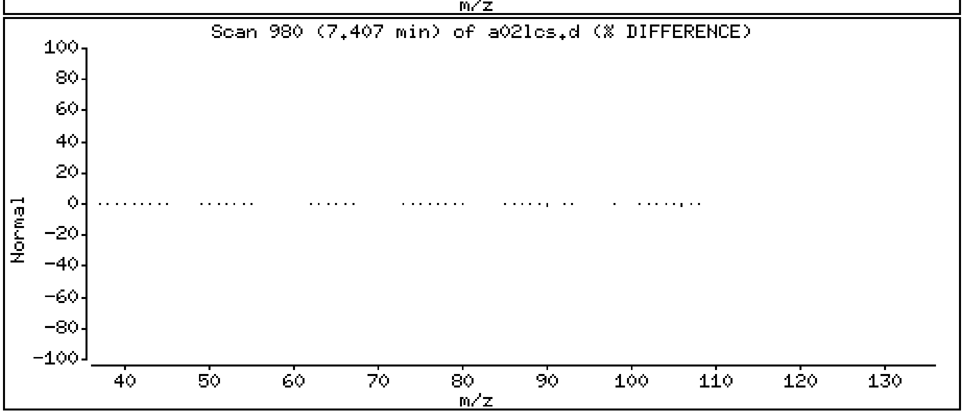












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Date : 27-JAN-2023 11:35

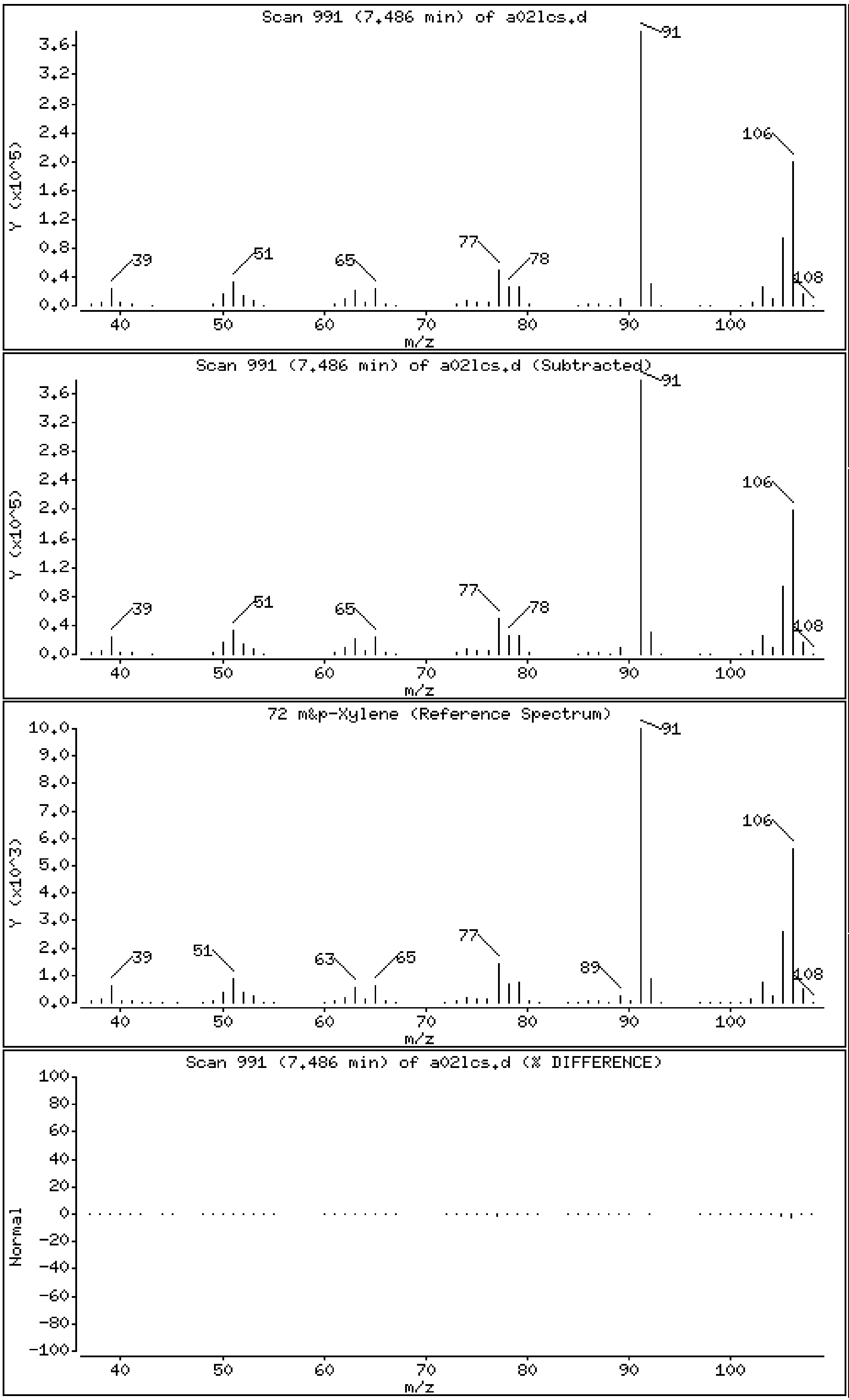
Client ID: Instrument: 50mv2a.i

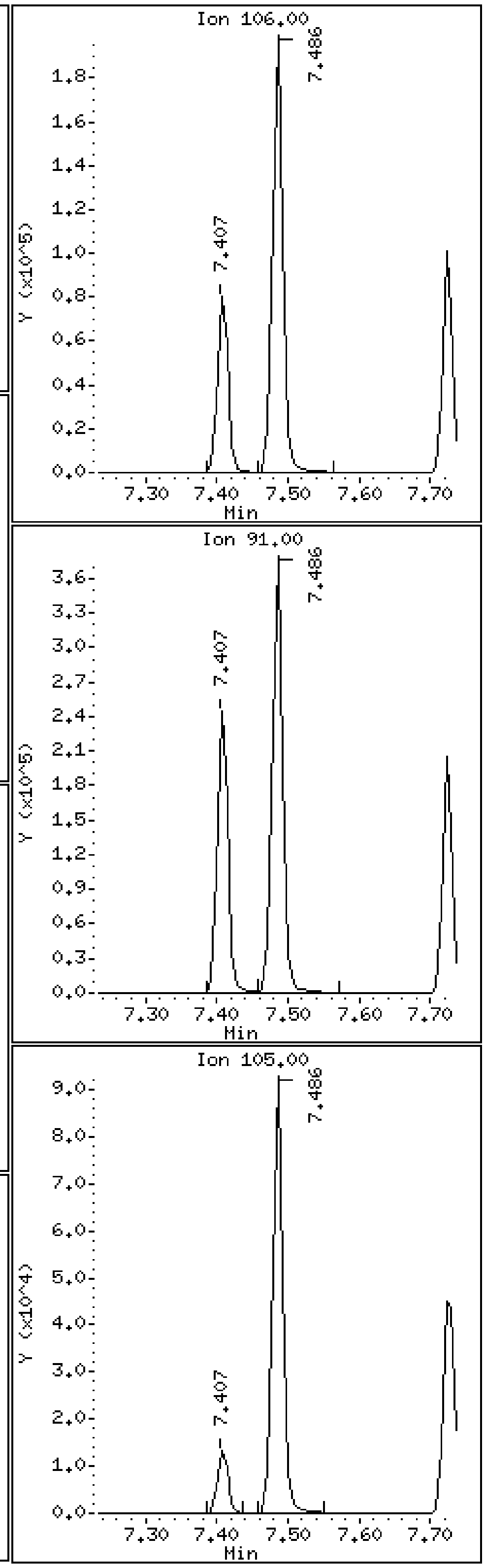
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

72 m&p-Xylene Concentration: 99.5 ppb Review Code:





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Date : 27-JAN-2023 11:35

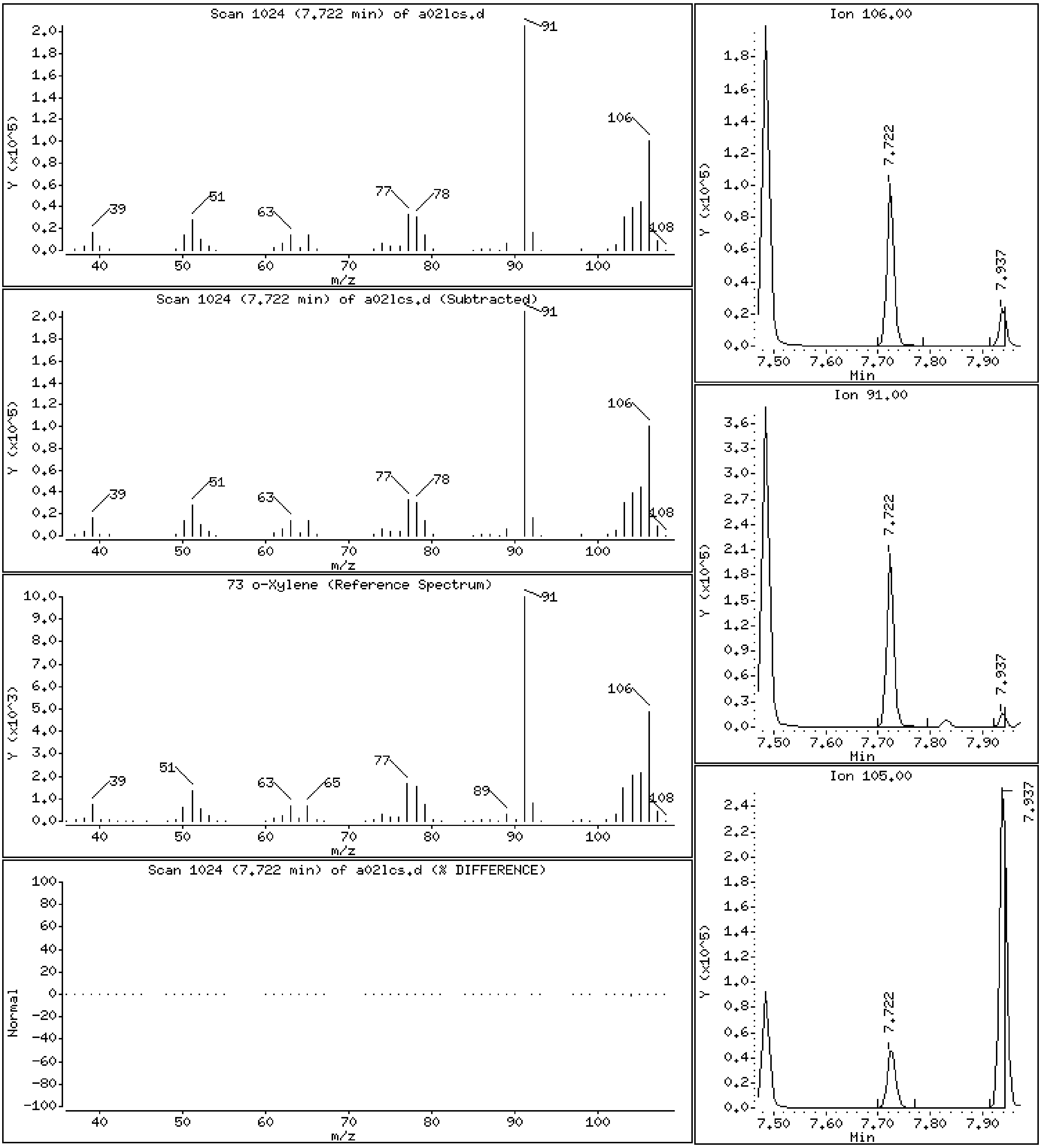
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

73 o-Xylene Concentration: 50.8 ppb Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

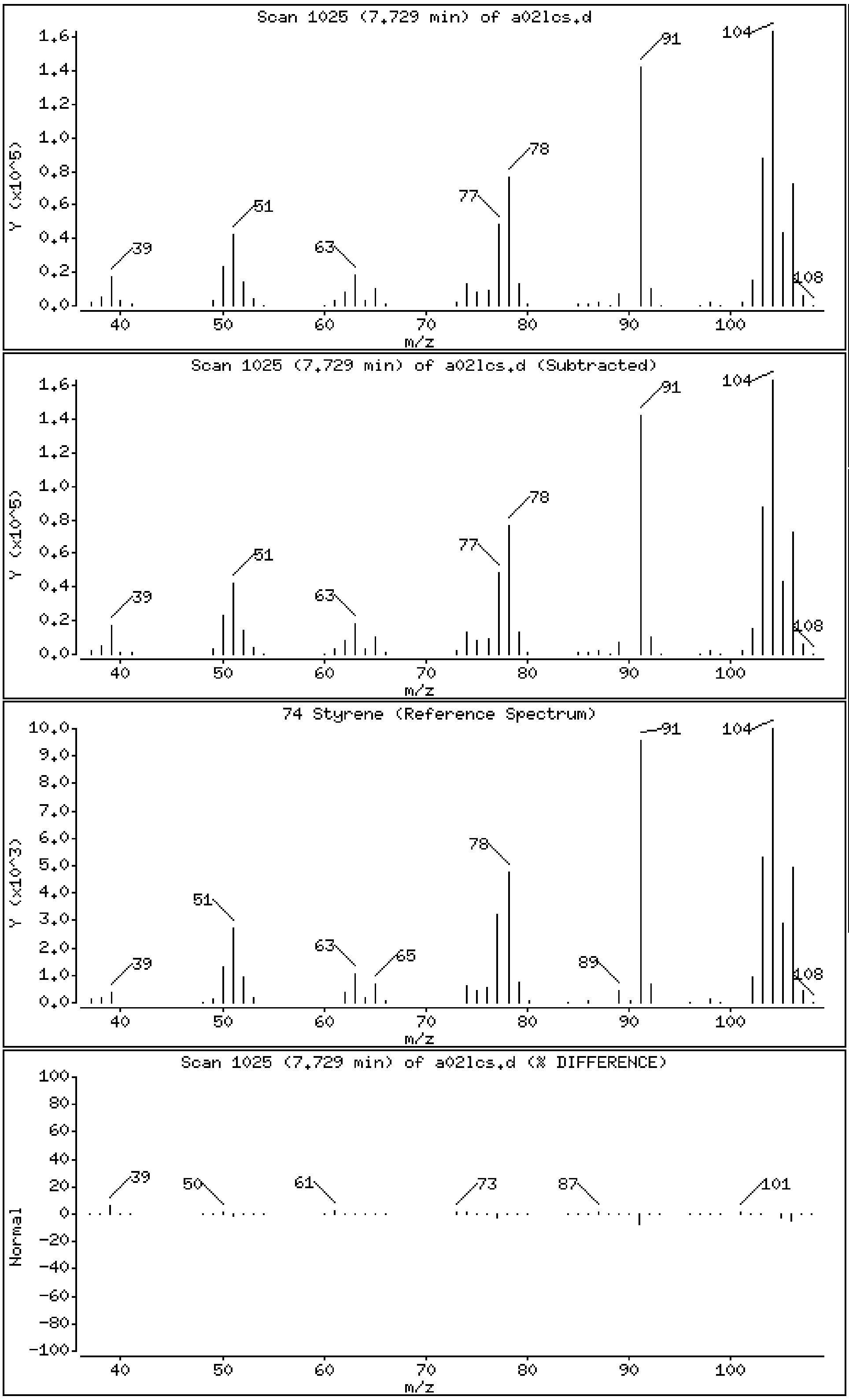
Column phase: DB-624

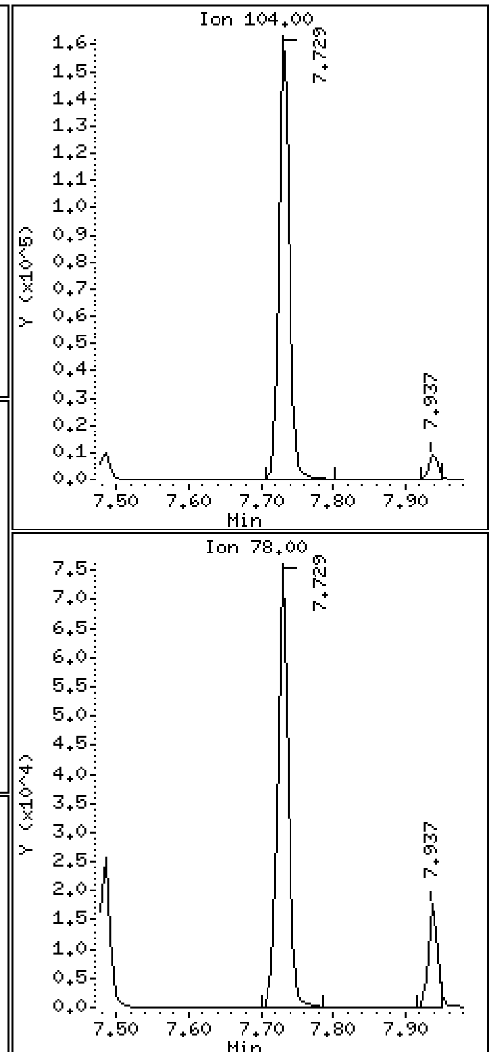
Column diameter: 0.18

74 Styrene

Concentration: 50.9 ppb

Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

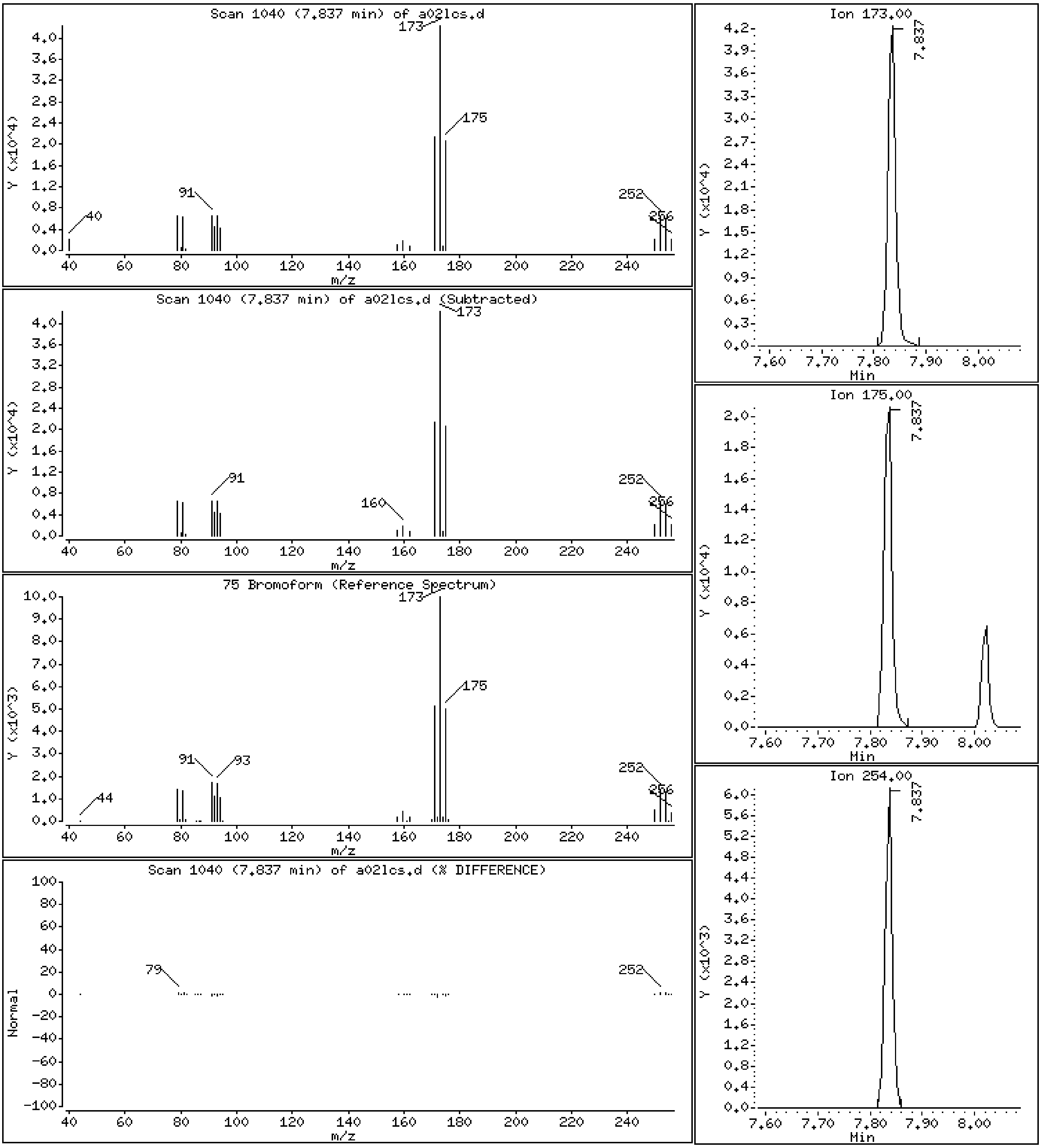
Column phase: DB-624

Column diameter: 0.18

75 Bromoform

Concentration: 45.8 ppb

Review Code:



Date : 27-JAN-2023 11:35

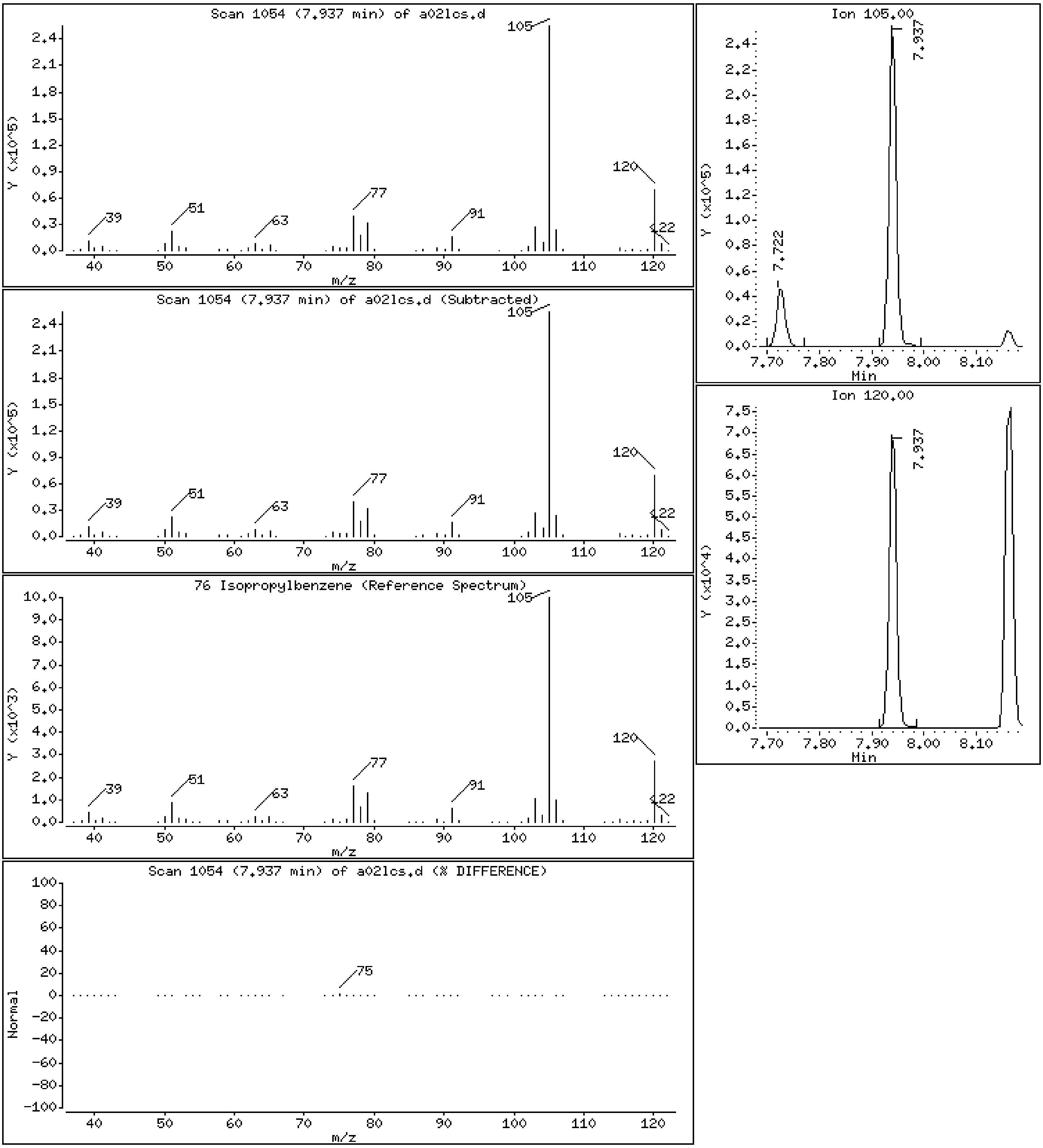
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

76 Isopropylbenzene Concentration: 49.5 ppb Review Code:



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Date : 27-JAN-2023 11:35

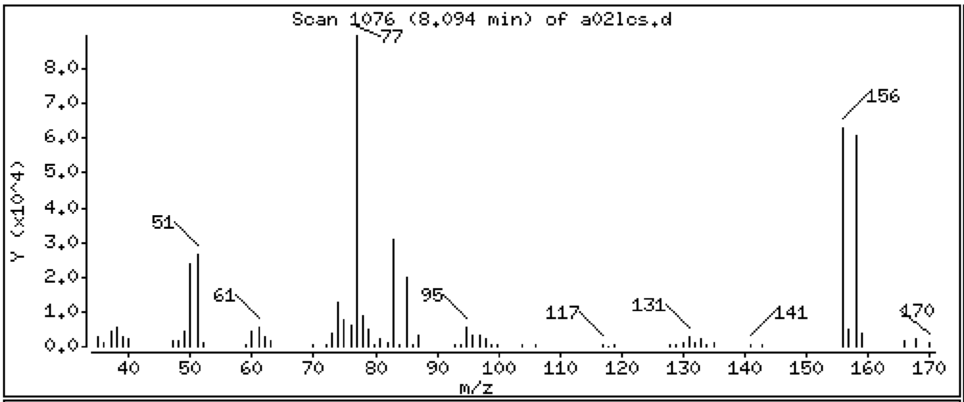
Client ID: Instrument: 50mv2a.i

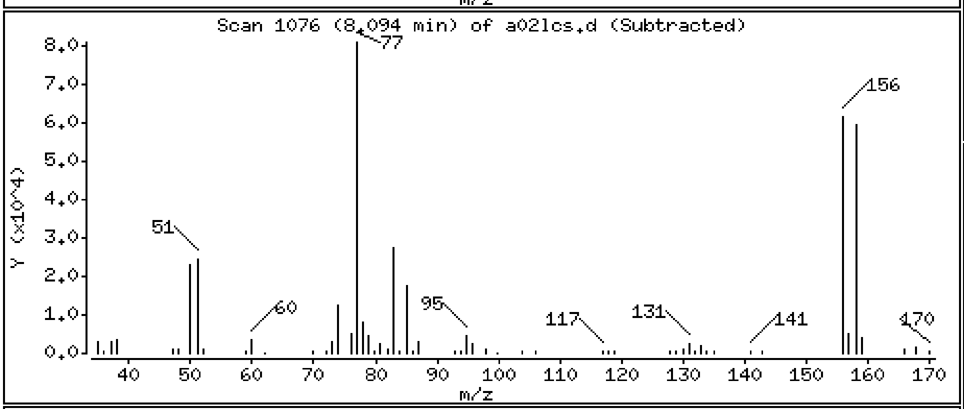
Sample Info: 3289829,336609:5

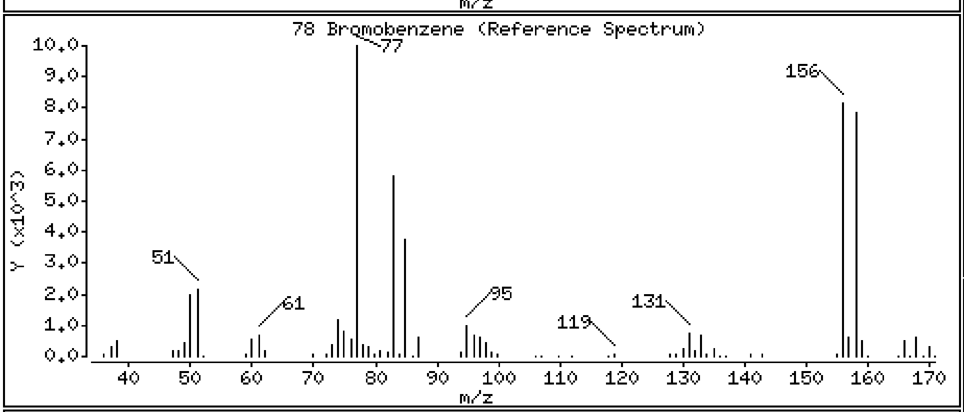
Purge Volume: 5.0 Operator: tkg

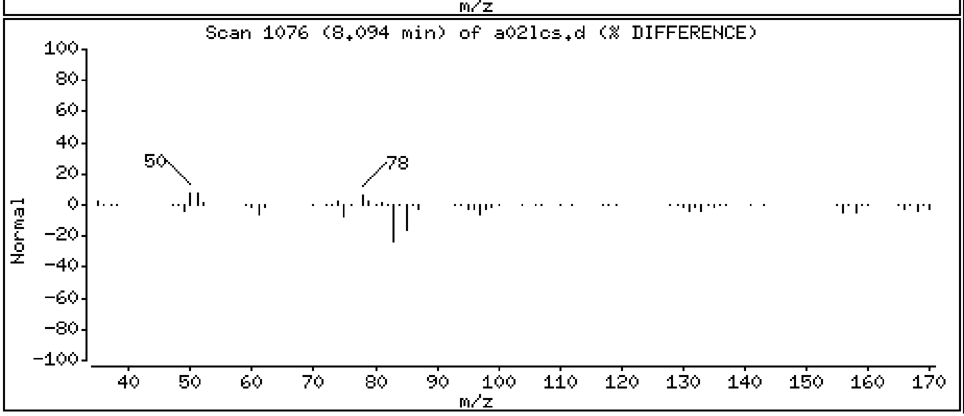
Column phase: DB-624 Column diameter: 0.18

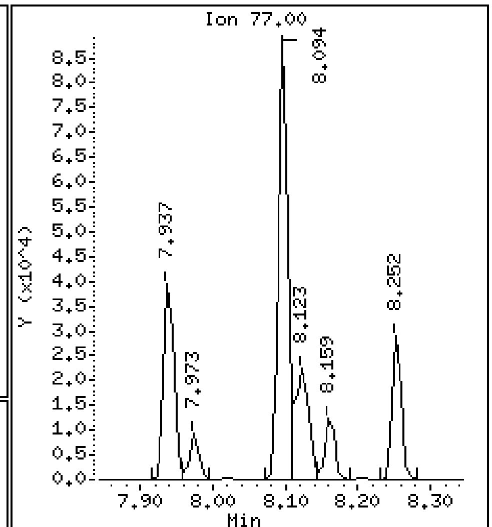
78 Bromobenzene Concentration: 46.4 ppb Review Code:

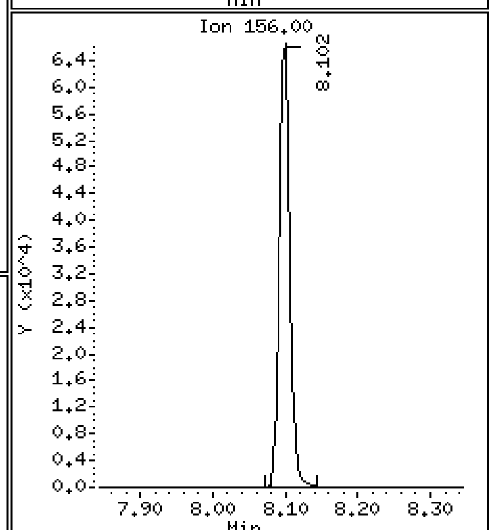


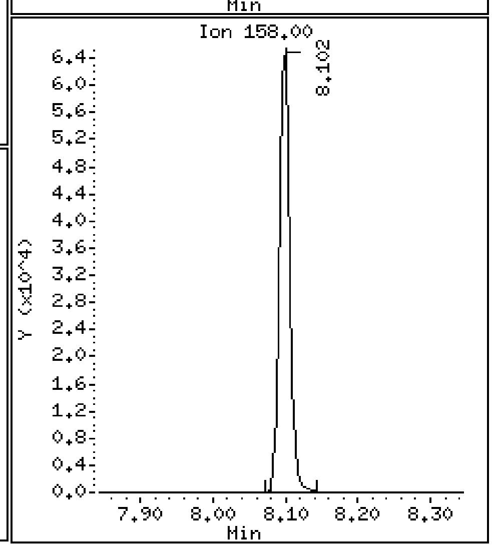












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Date : 27-JAN-2023 11:35

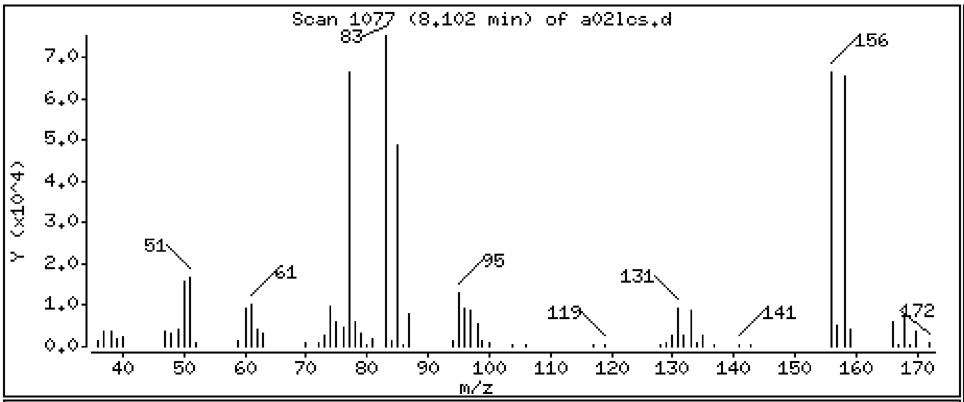
Client ID: Instrument: 50mv2a.i

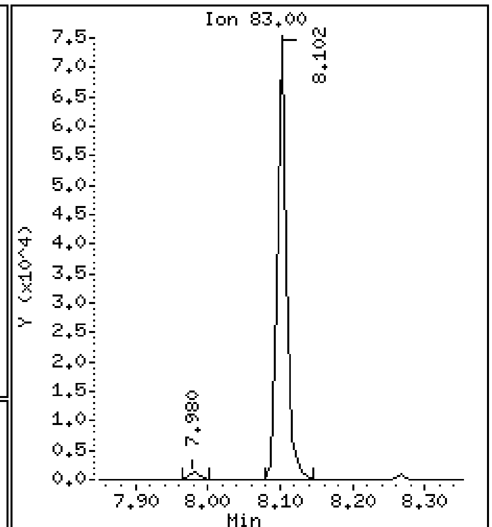
Sample Info: 3289829,336609:5

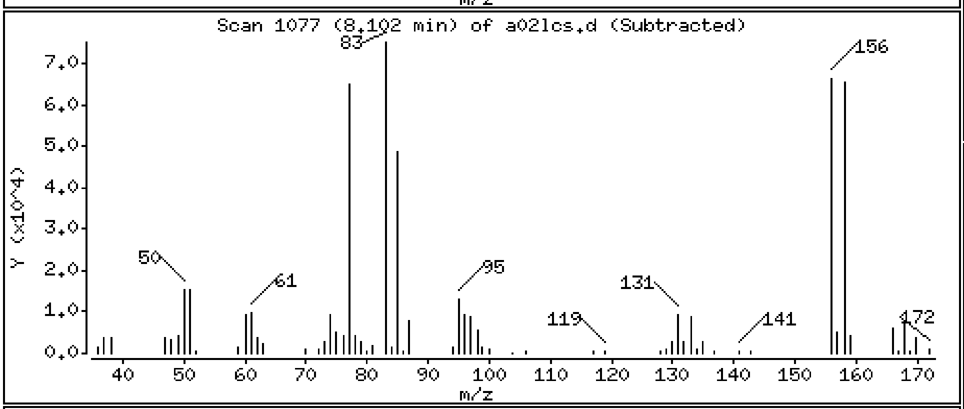
Purge Volume: 5.0 Operator: tkg

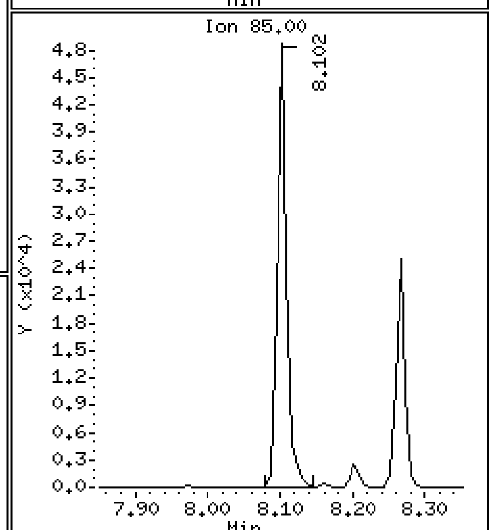
Column phase: DB-624 Column diameter: 0.18

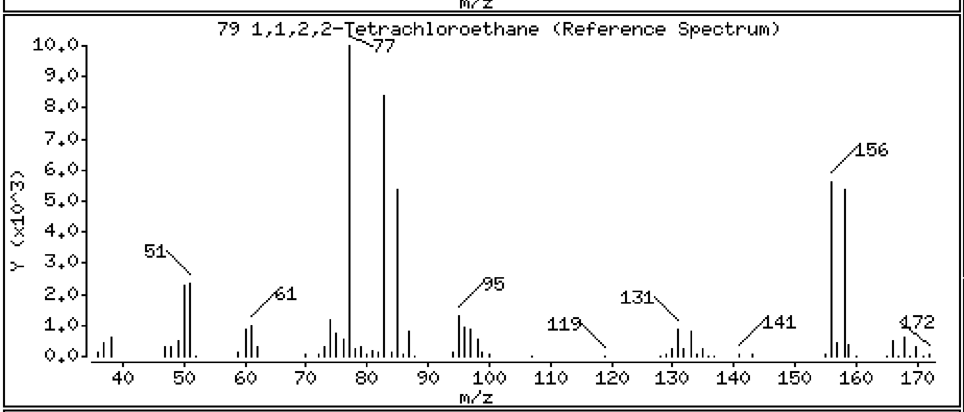
79 1,1,2,2-Tetrachloroethane Concentration: 52.5 ppb Review Code:

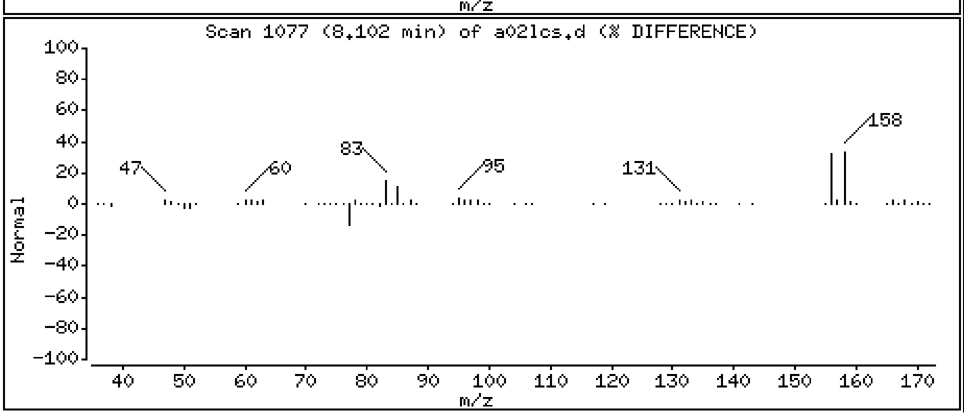


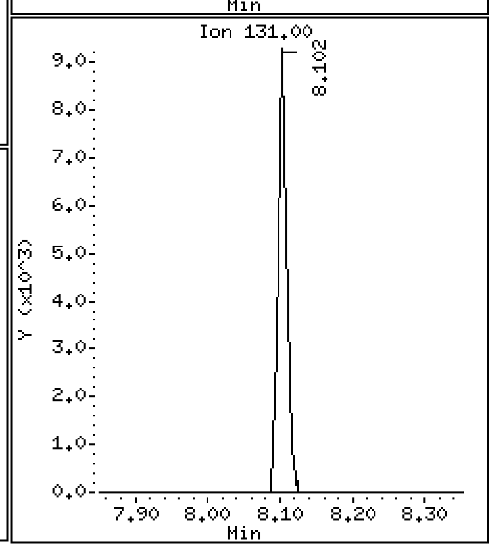












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

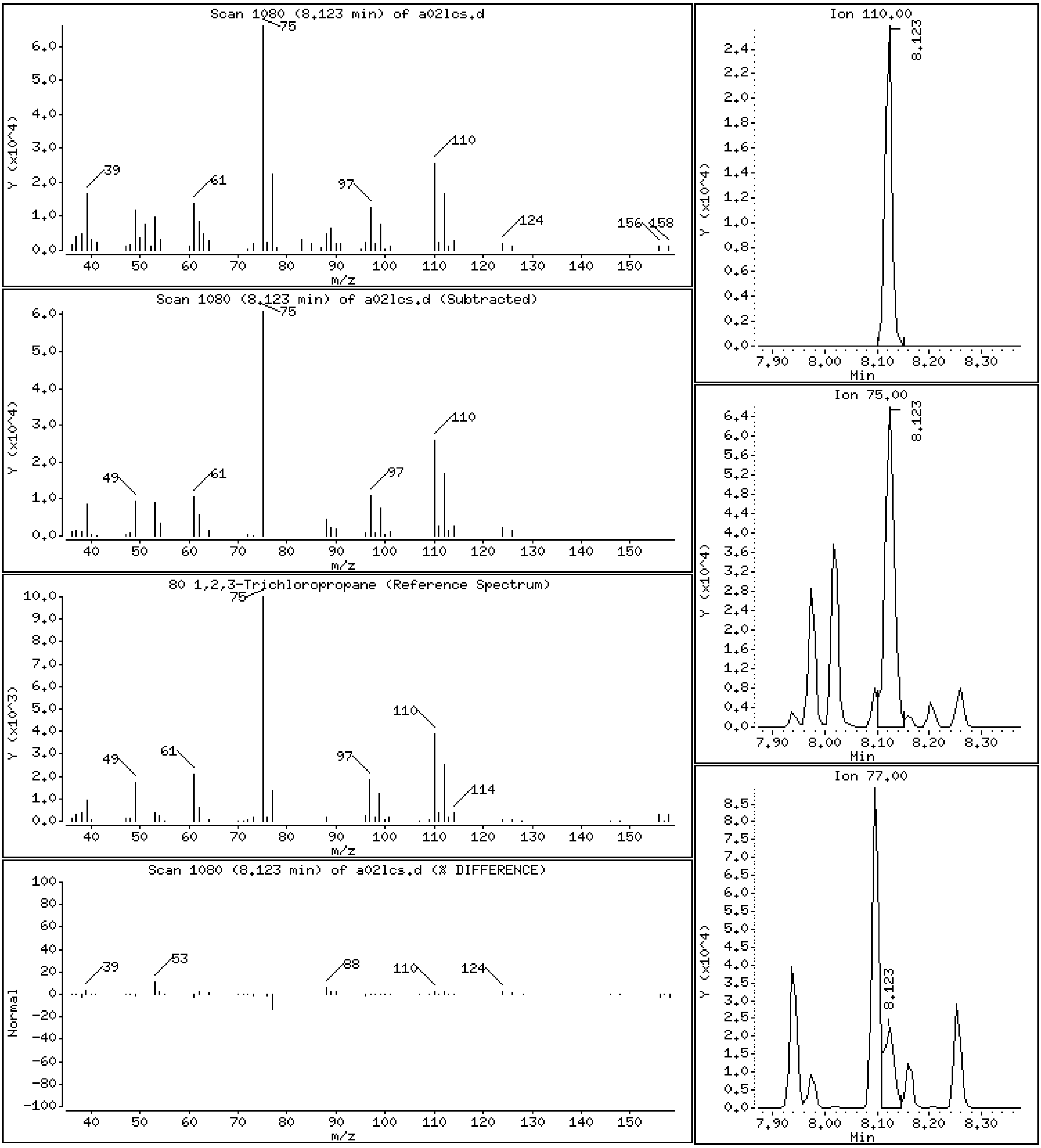
Column phase: DB-624

Column diameter: 0.18

80 1,2,3-Trichloropropane

Concentration: 51.3 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

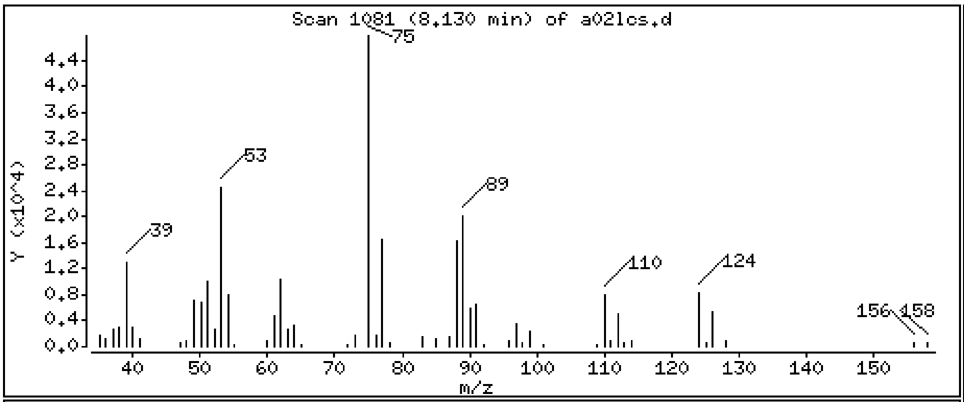
Column phase: DB-624

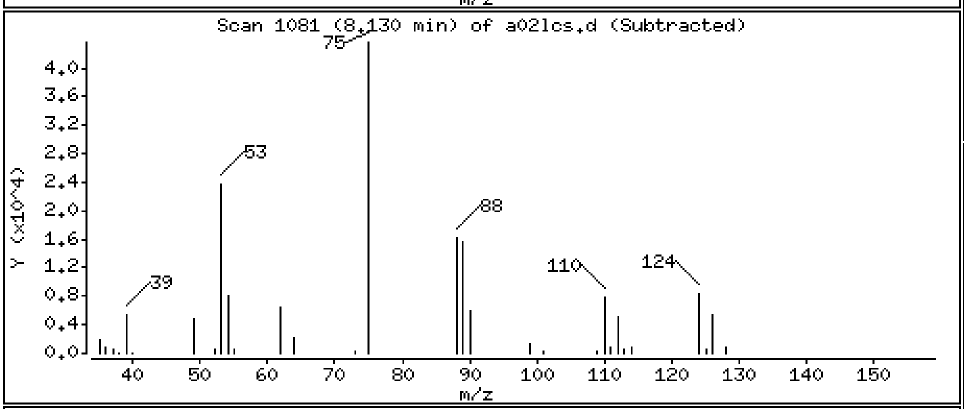
Column diameter: 0.18

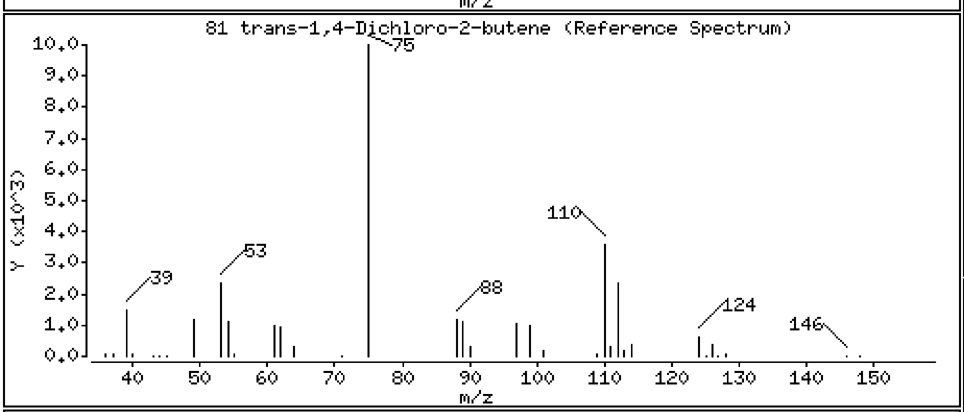
81 trans-1,4-Dichloro-2-butene

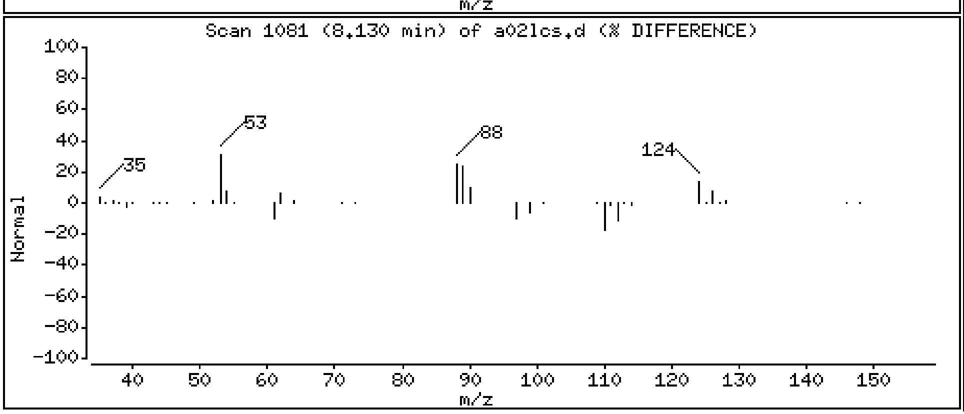
Concentration: 53.4 ppb

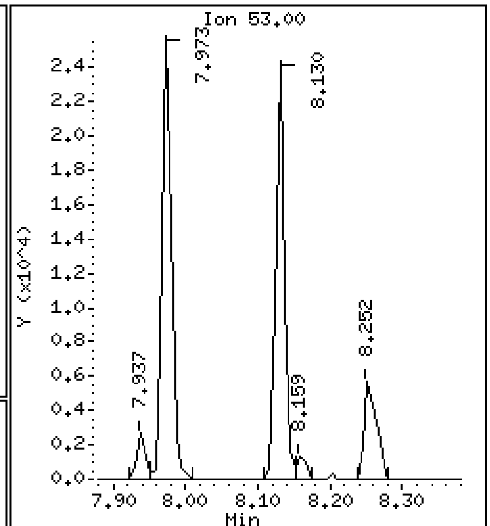
Review Code:

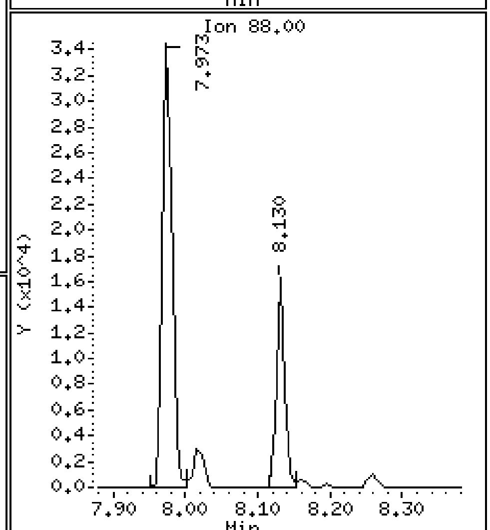


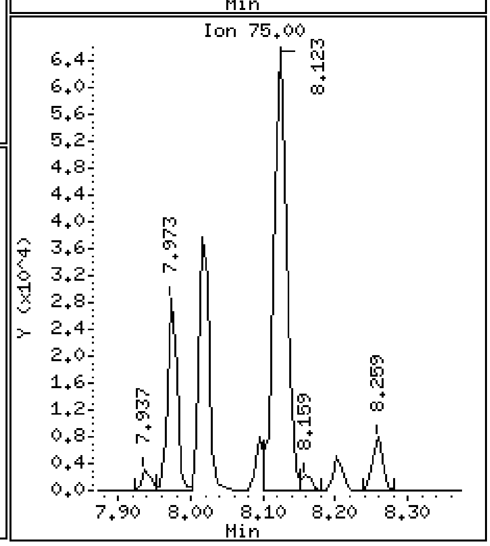












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Date : 27-JAN-2023 11:35

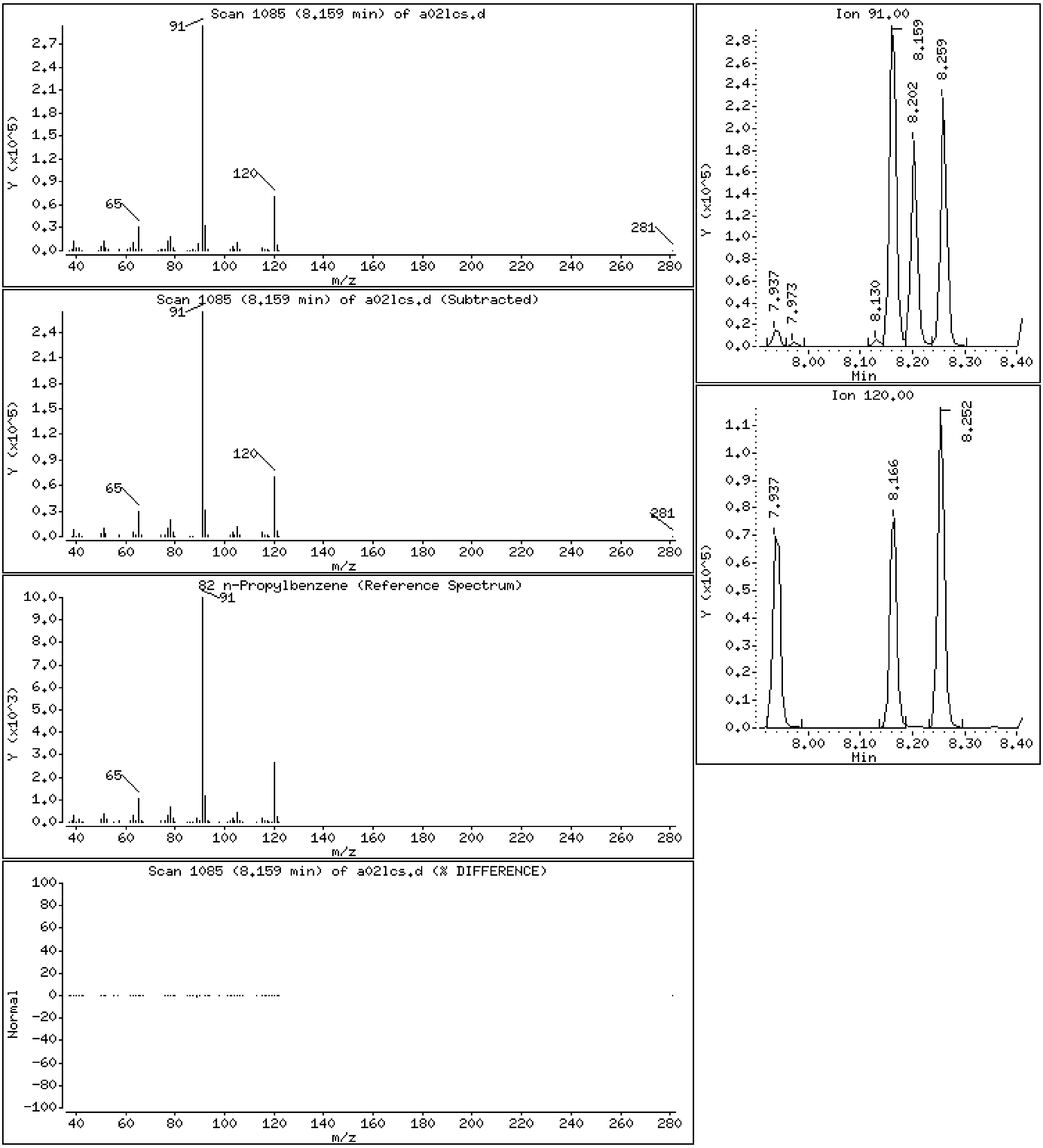
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

82 n-Propylbenzene Concentration: 49.3 ppb Review Code:



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Date : 27-JAN-2023 11:35

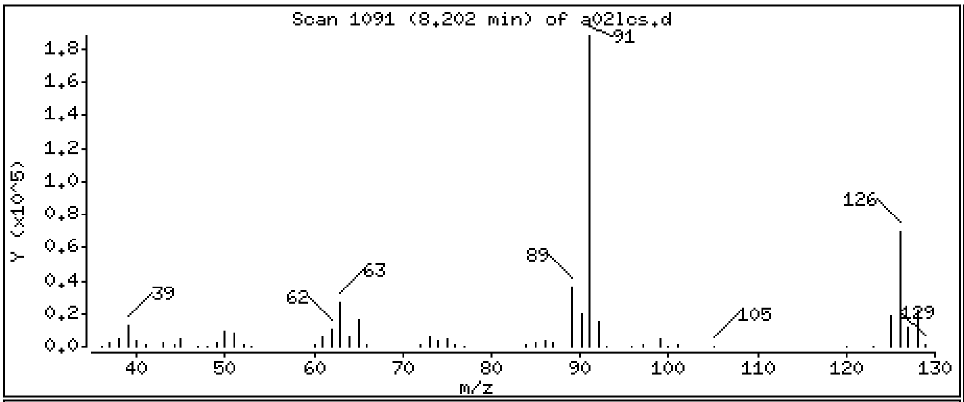
Client ID: Instrument: 50mv2a.i

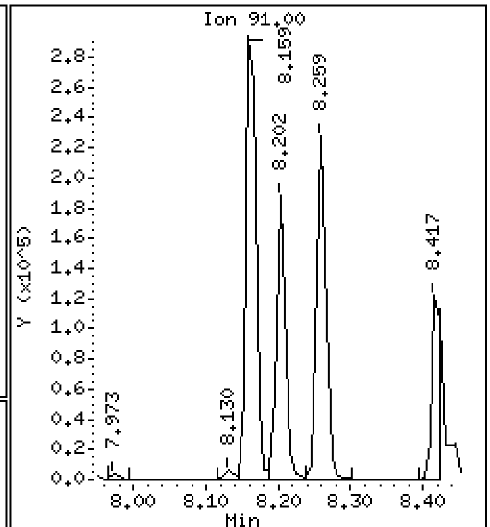
Sample Info: 3289829,336609:5

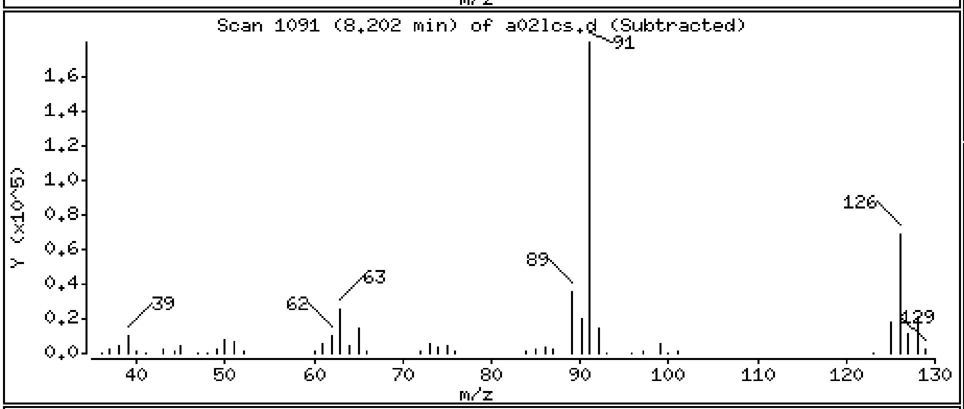
Purge Volume: 5.0 Operator: tkg

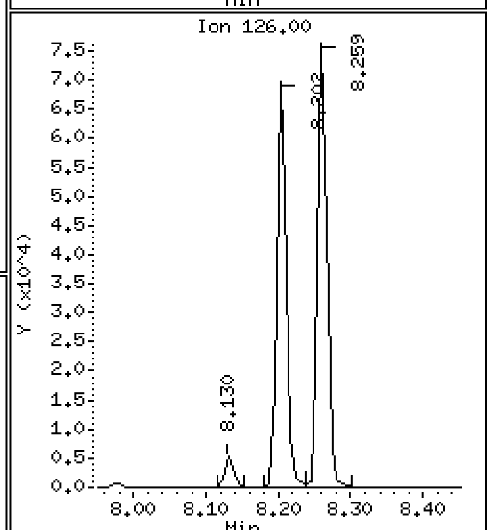
Column phase: DB-624 Column diameter: 0.18

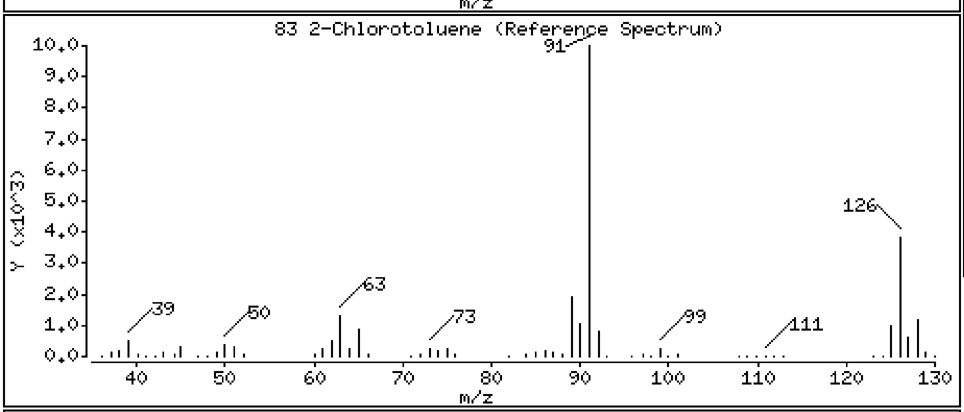
83 2-Chlorotoluene Concentration: 49.4 ppb Review Code:

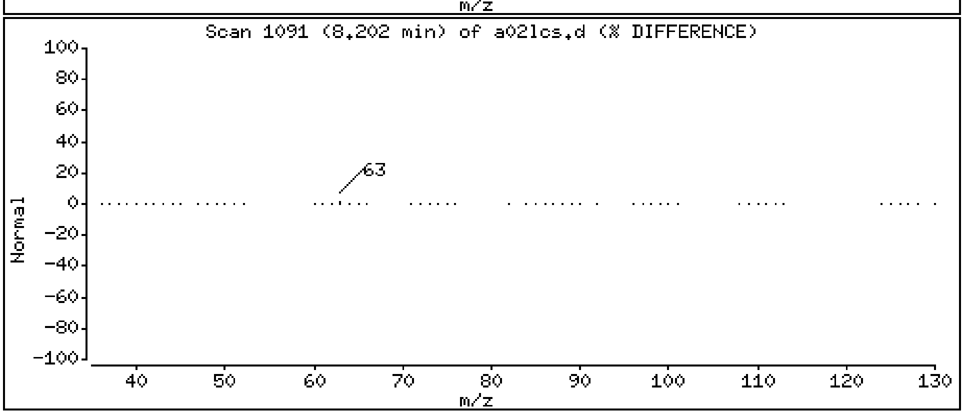












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

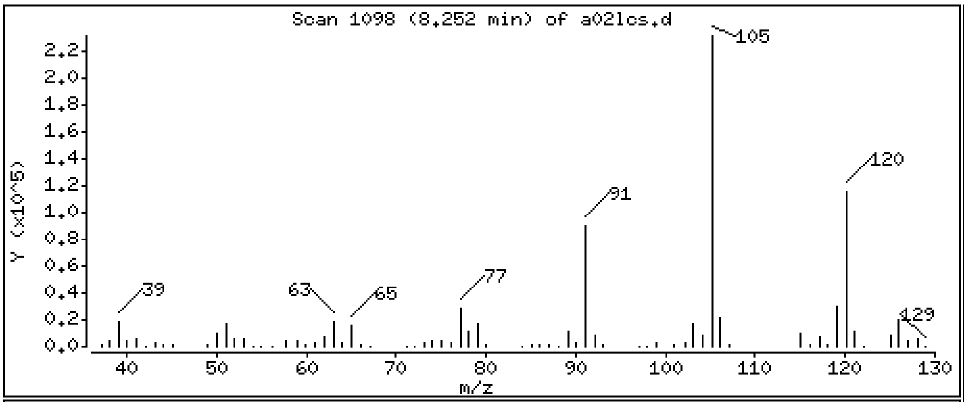
Column phase: DB-624

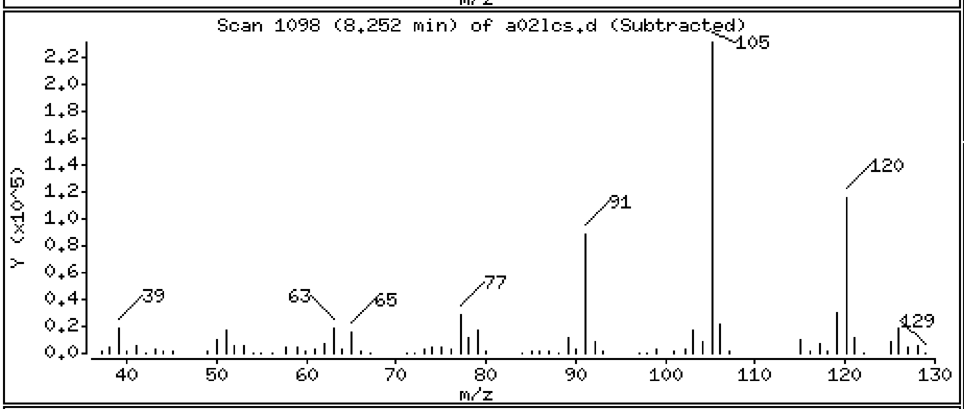
Column diameter: 0.18

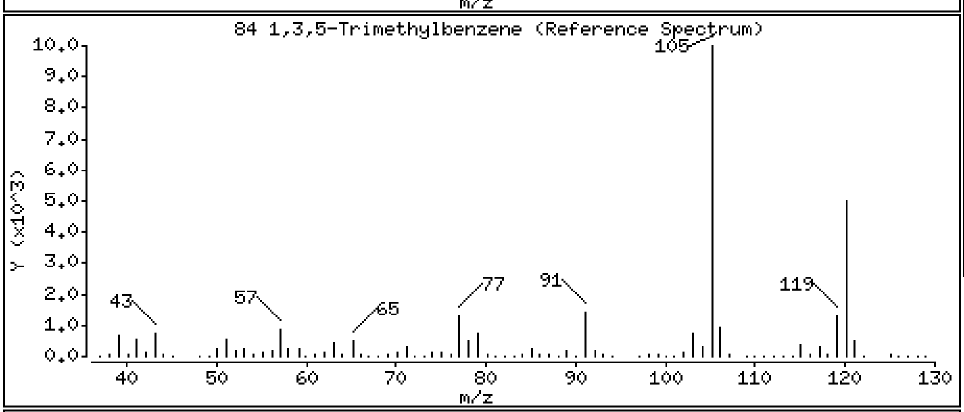
84 1,3,5-Trimethylbenzene

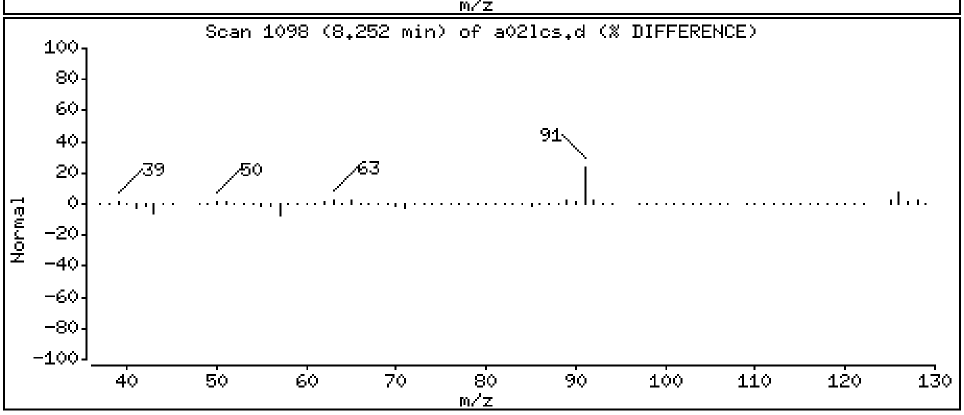
Concentration: 49.4 ppb

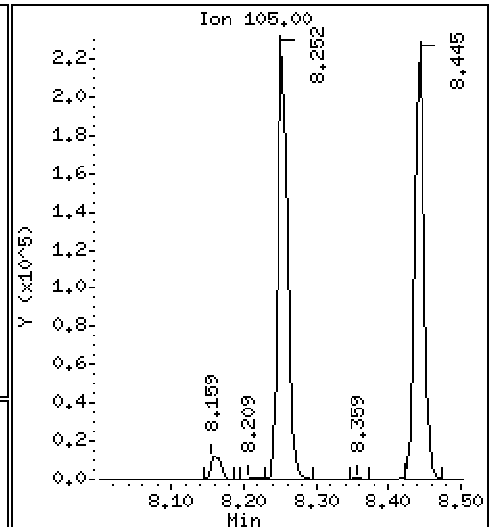
Review Code:

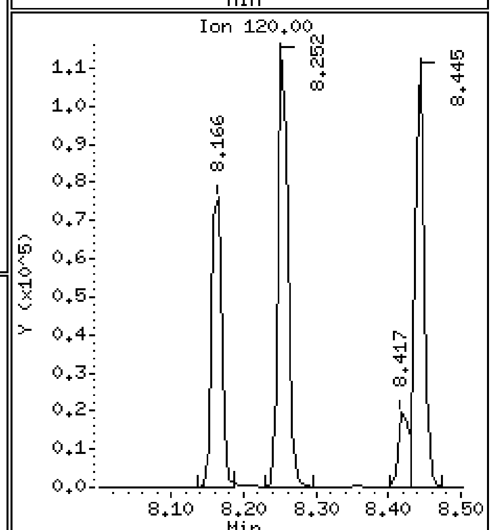












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

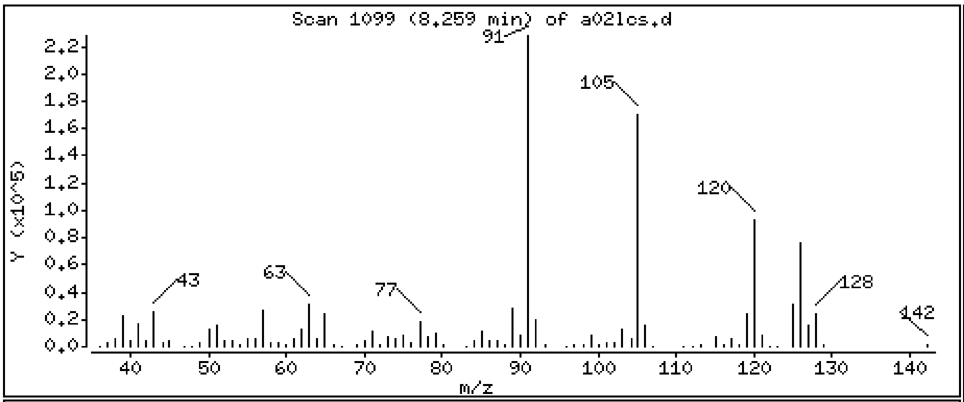
Column phase: DB-624

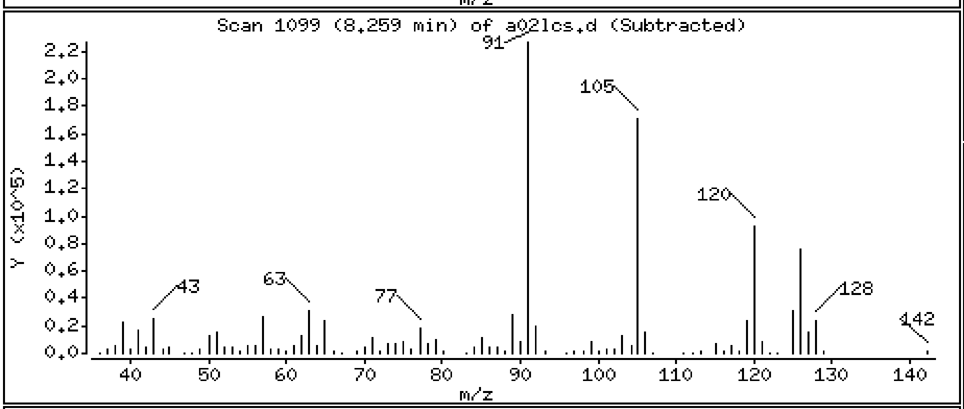
Column diameter: 0.18

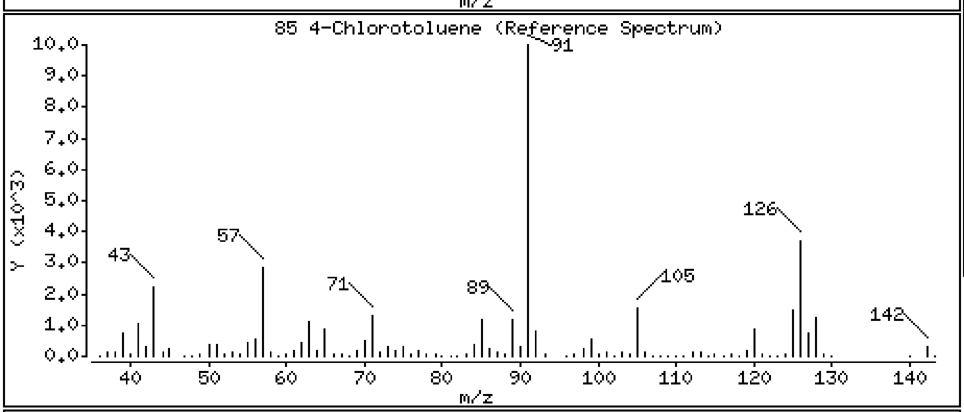
85 4-Chlorotoluene

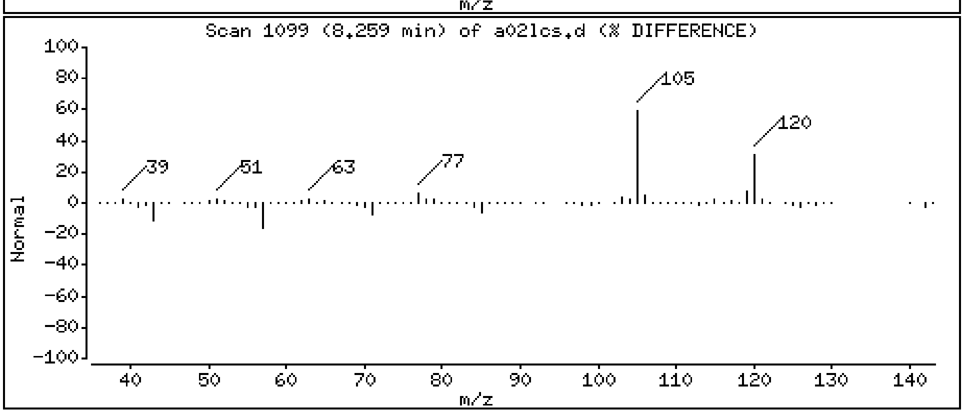
Concentration: 50.7 ppb

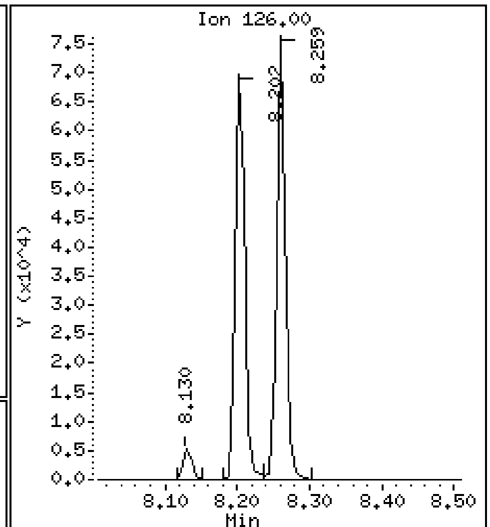
Review Code:

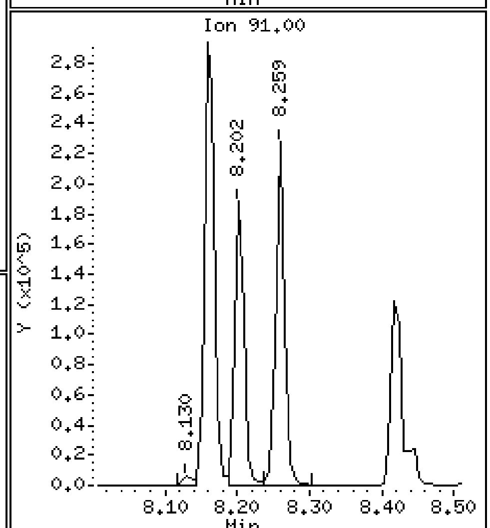












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

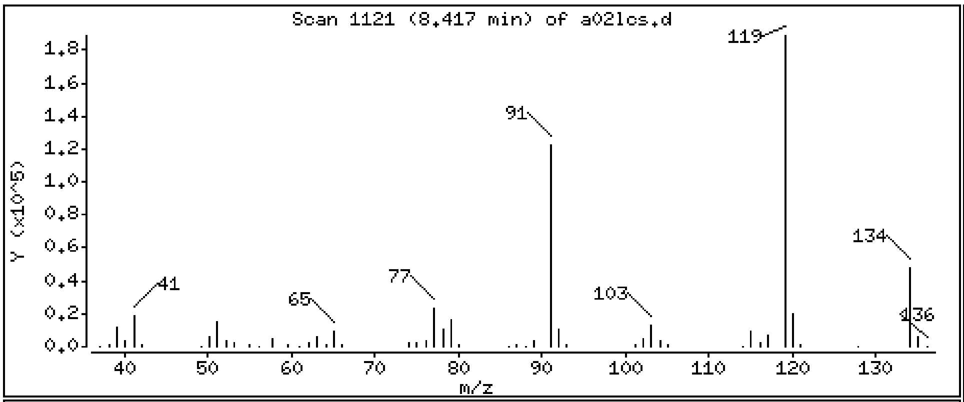
Column phase: DB-624

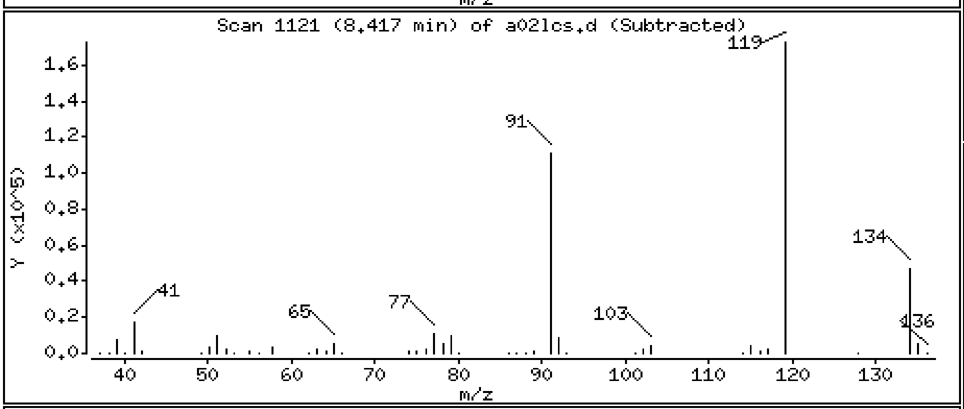
Column diameter: 0.18

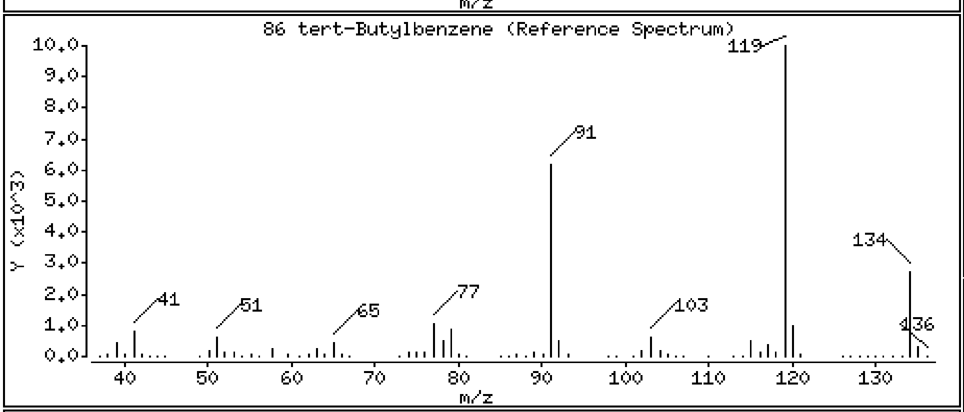
86 tert-Butylbenzene

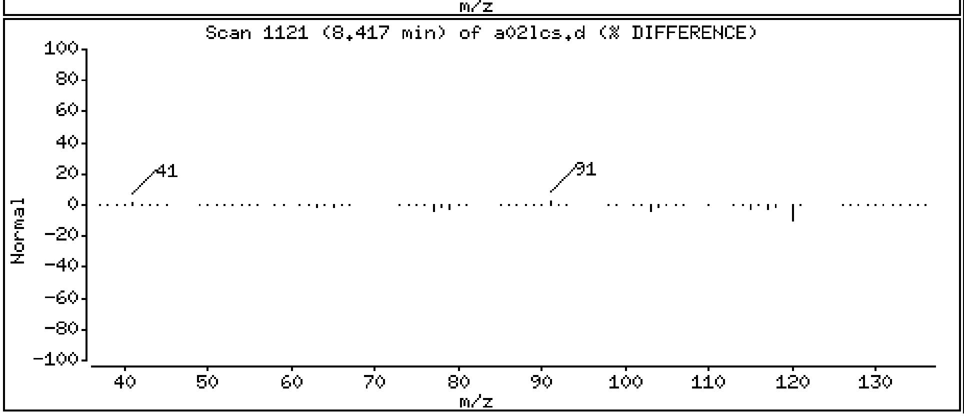
Concentration: 45.9 ppb

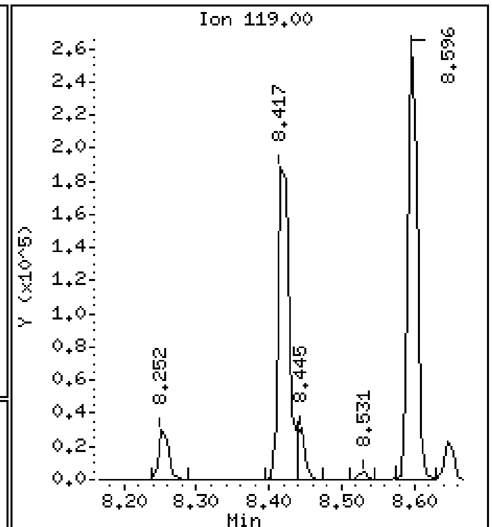
Review Code:

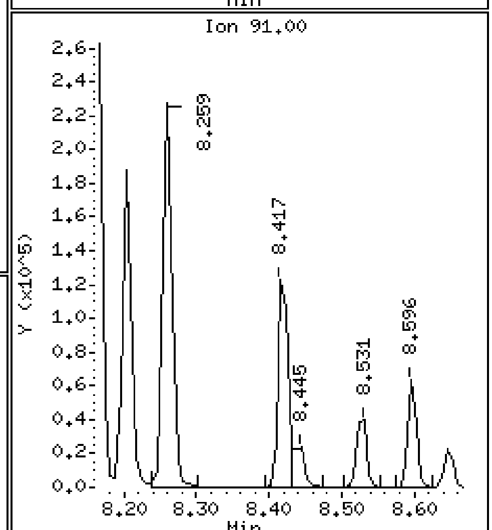


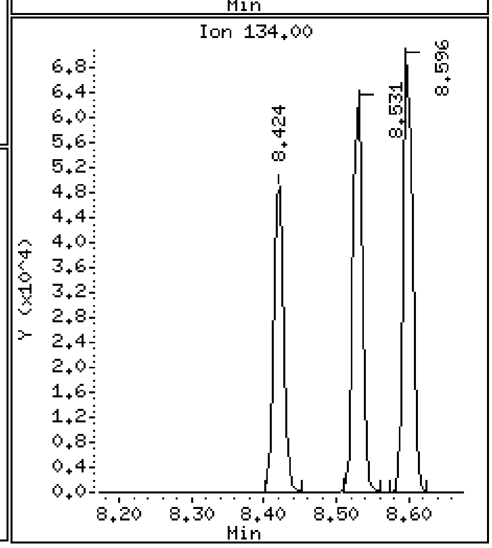












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

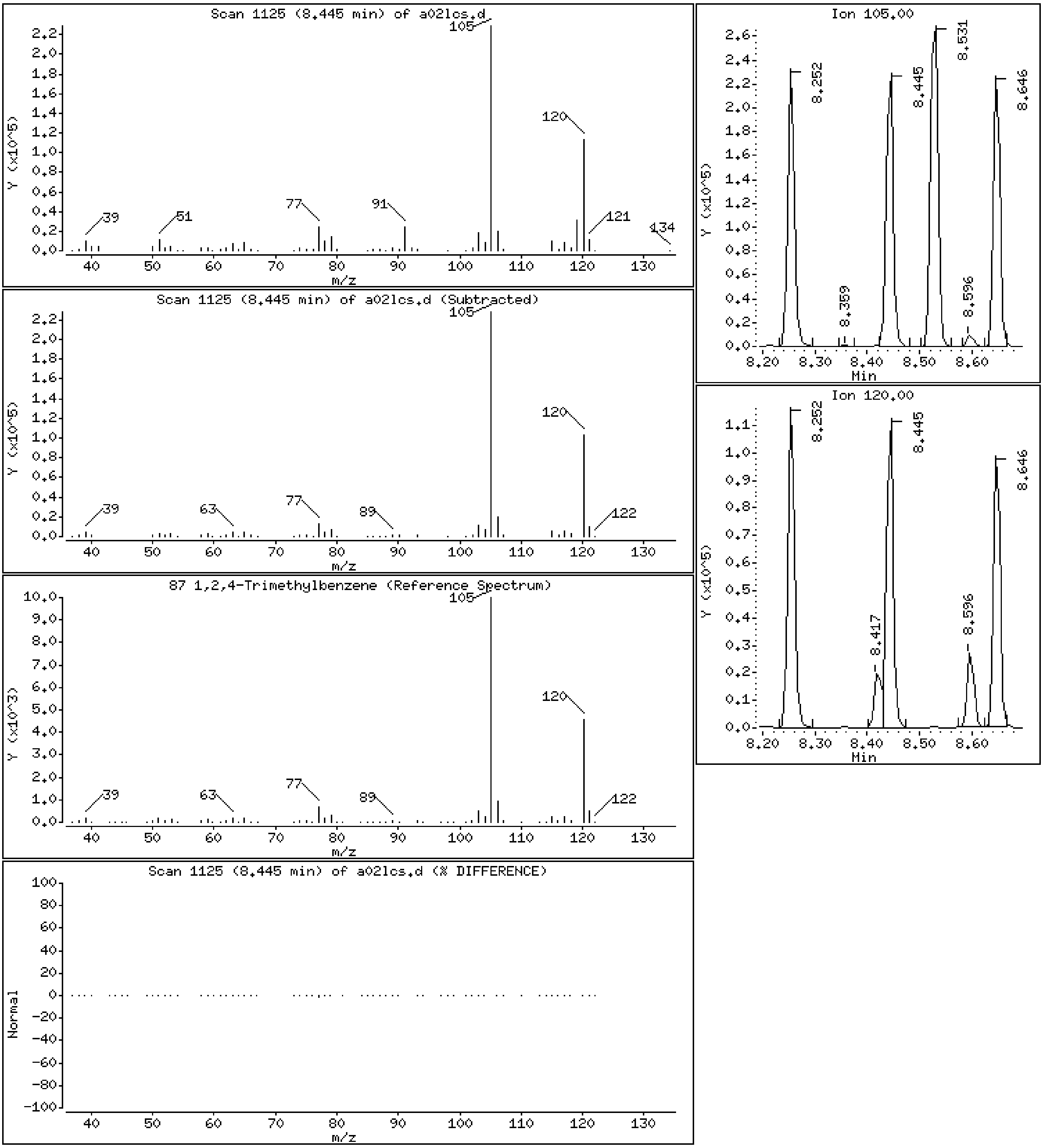
Column phase: DB-624

Column diameter: 0.18

87 1,2,4-Trimethylbenzene

Concentration: 48.9 ppb

Review Code:



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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

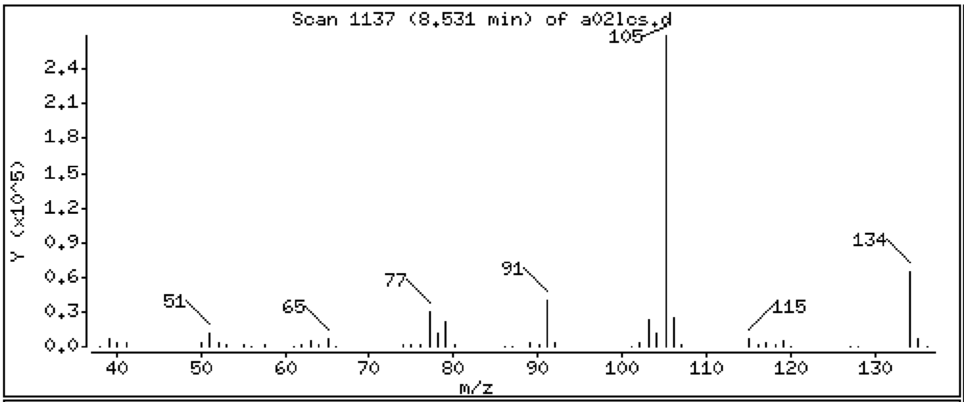
Column phase: DB-624

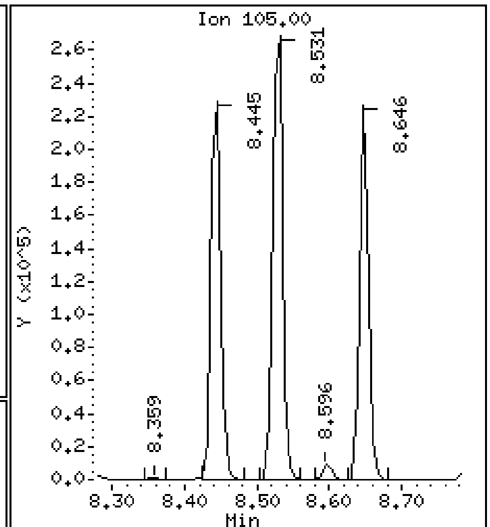
Column diameter: 0.18

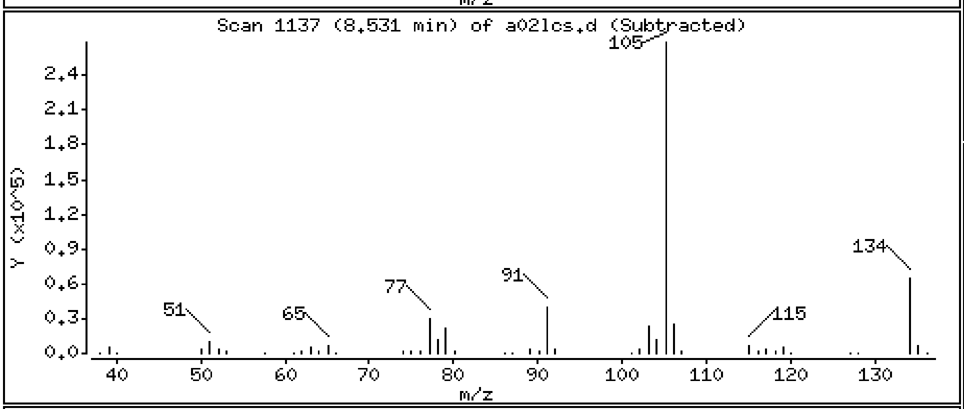
88 sec-Butylbenzene

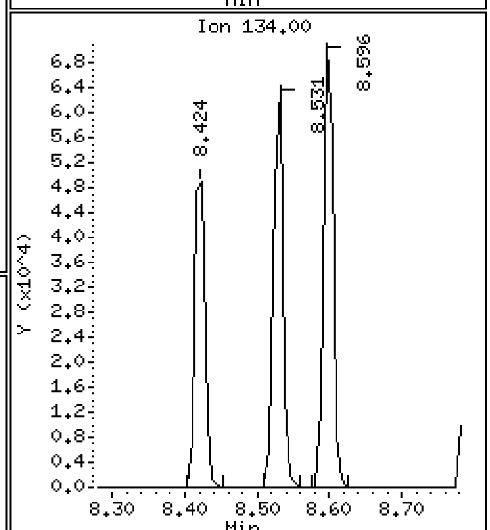
Concentration: 49.5 ppb

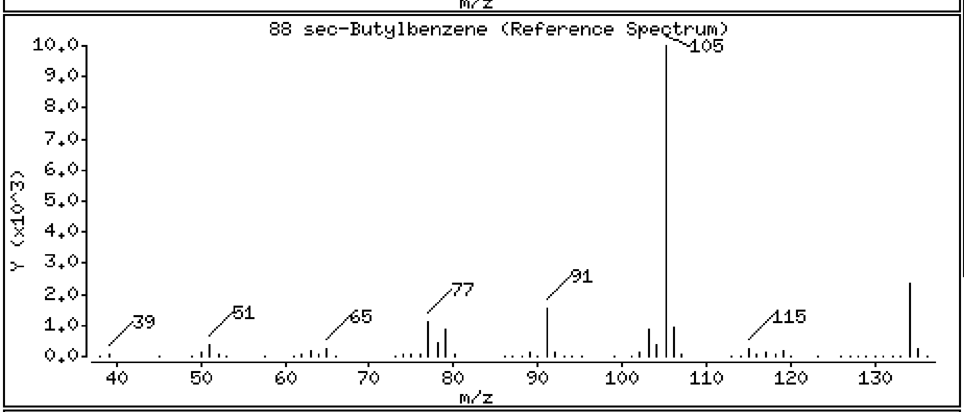
Review Code:

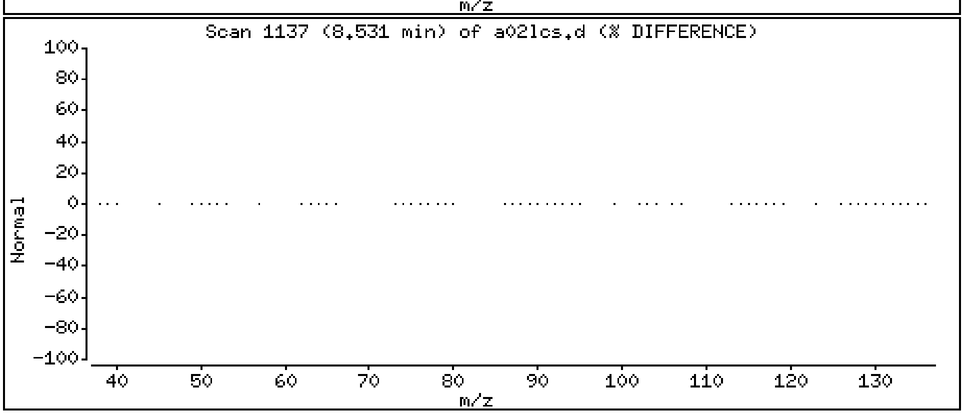












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

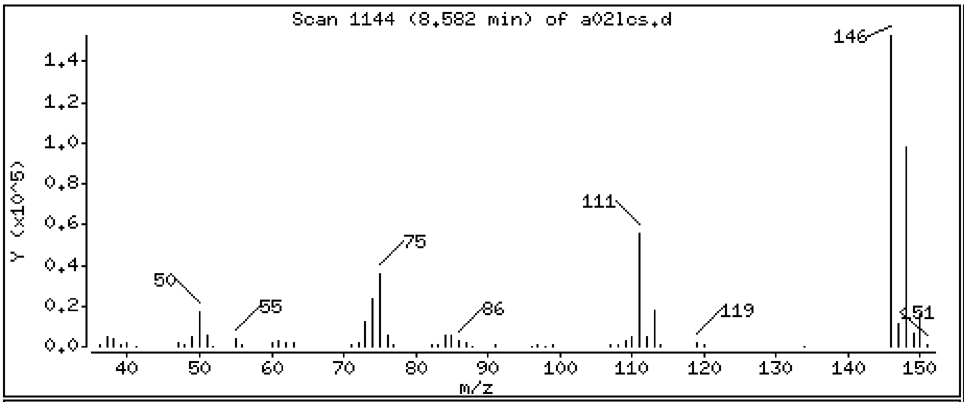
Column phase: DB-624

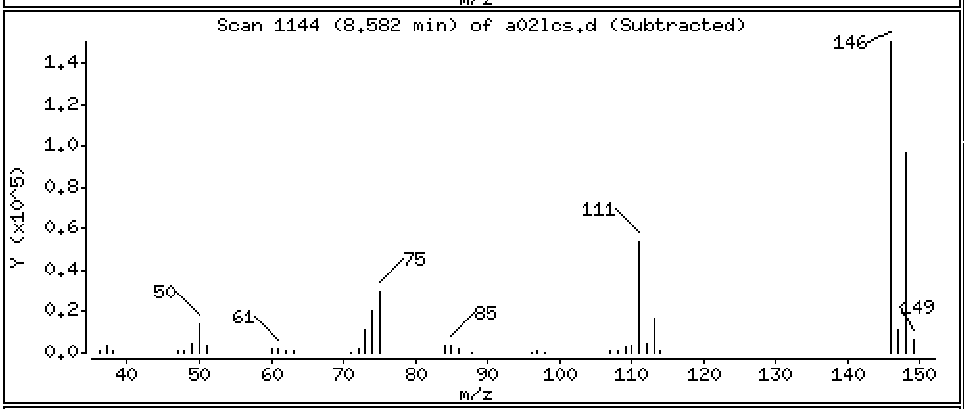
Column diameter: 0.18

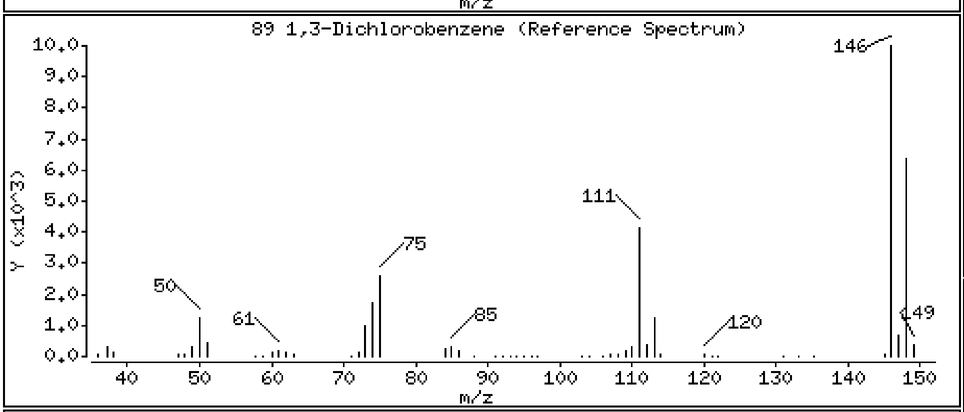
89 1,3-Dichlorobenzene

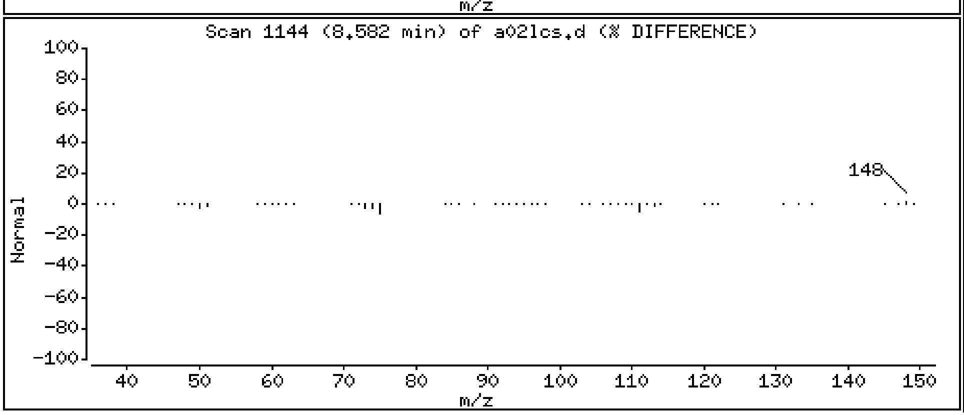
Concentration: 49.1 ppb

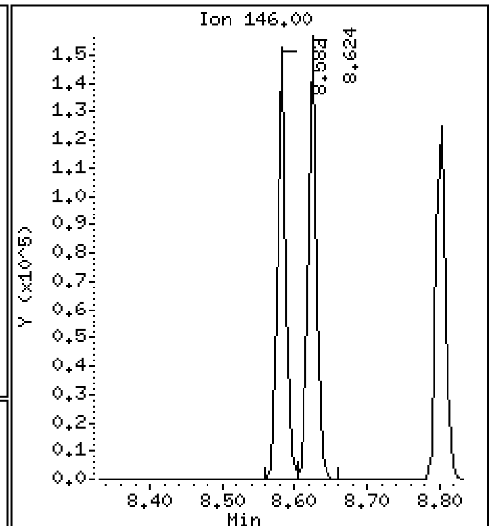
Review Code:

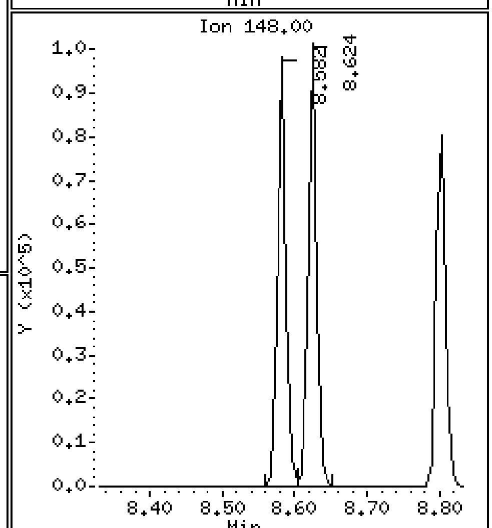


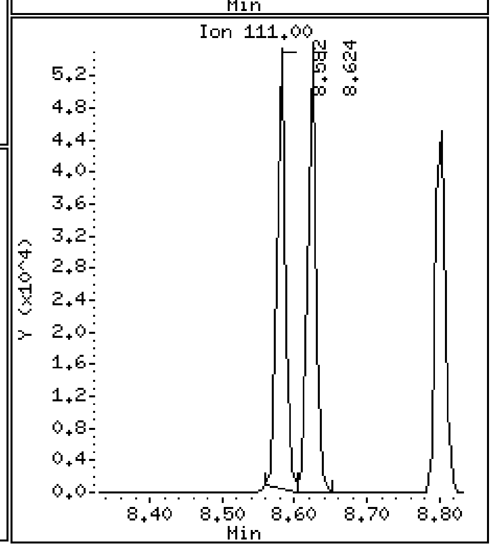












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Date : 27-JAN-2023 11:35

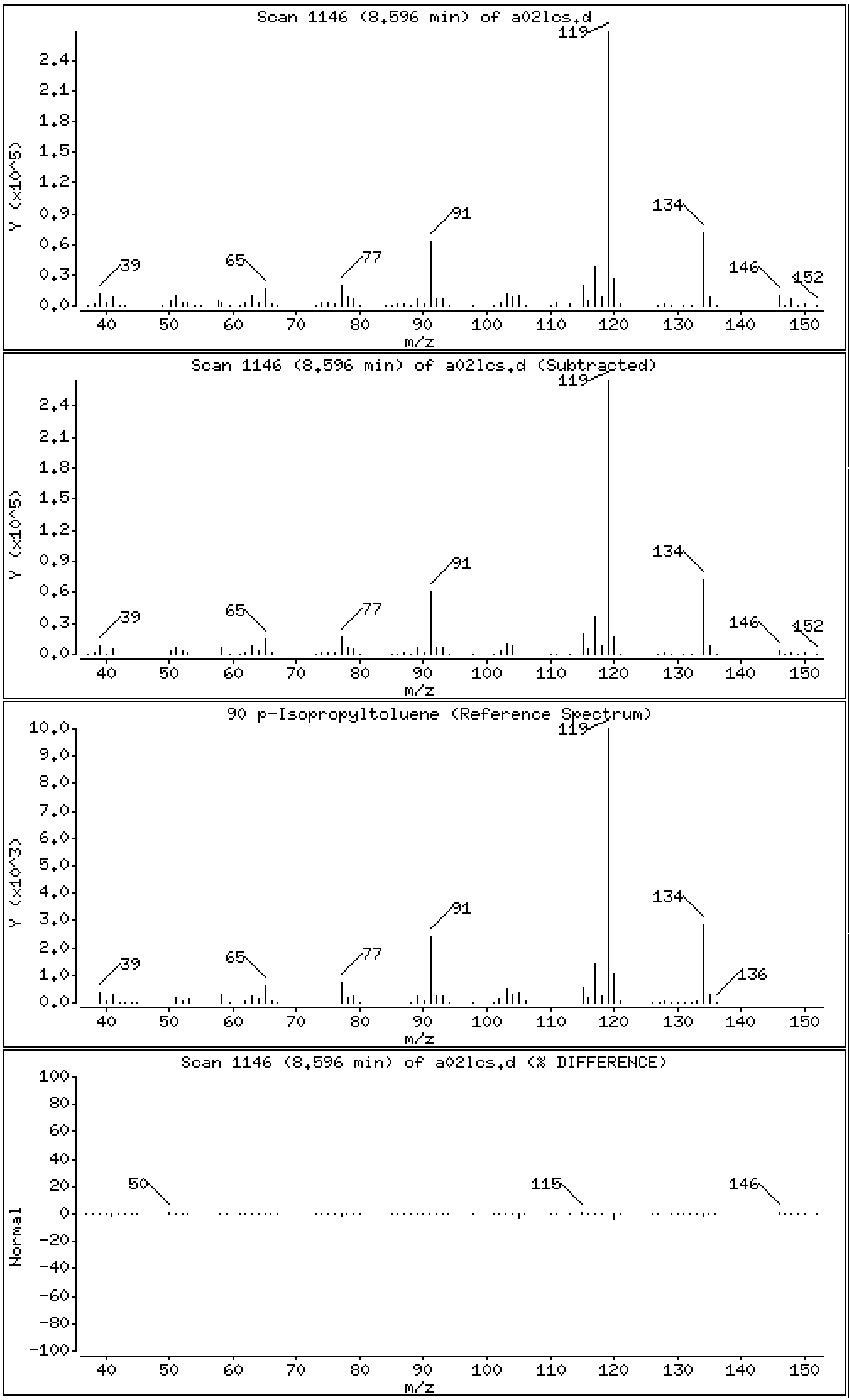
Client ID: Instrument: 50mv2a.i

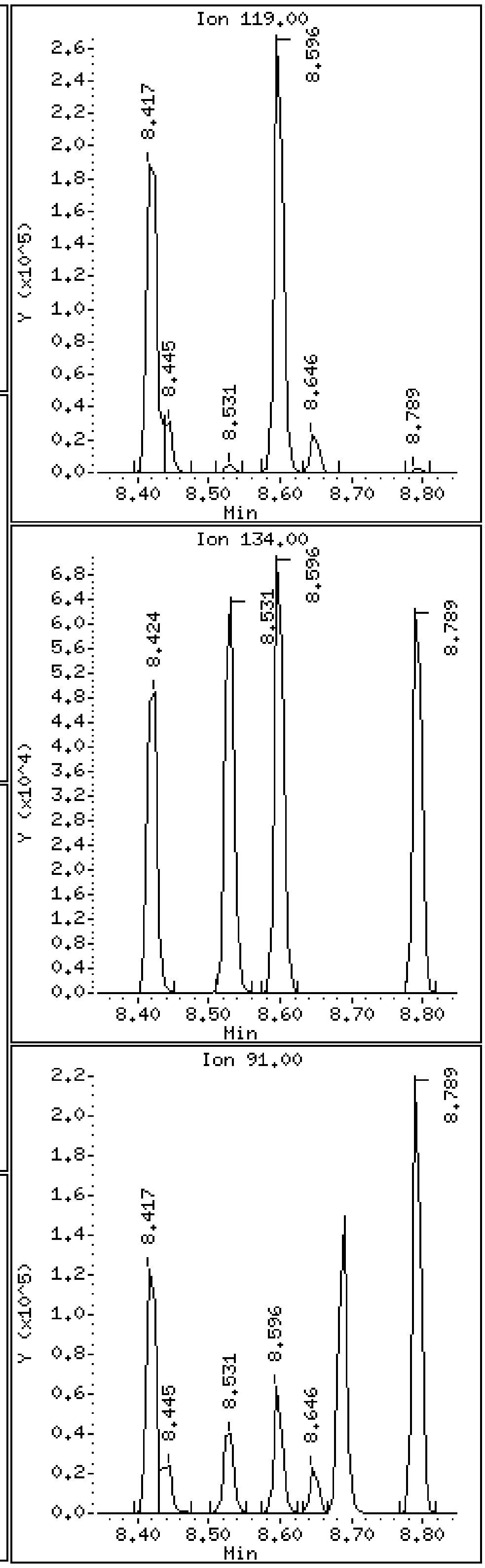
Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

90 p-Isopropyltoluene Concentration: 50.3 ppb Review Code:





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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

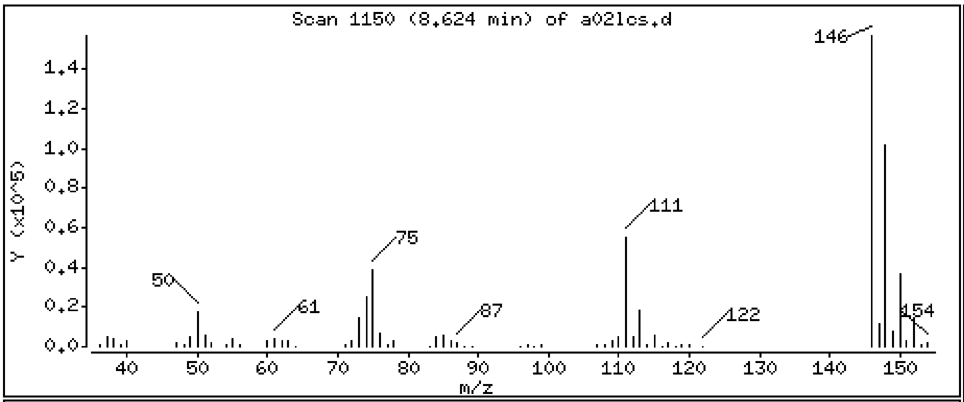
Column phase: DB-624

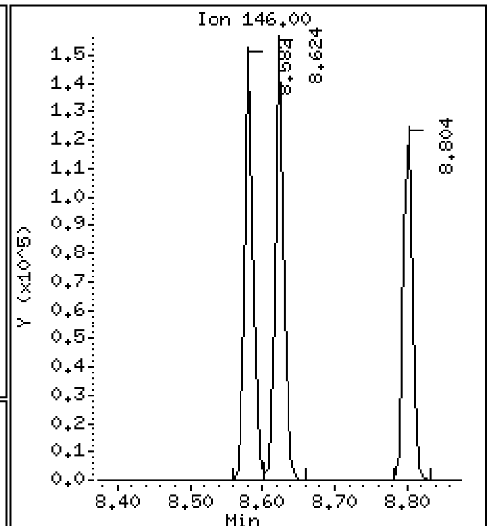
Column diameter: 0.18

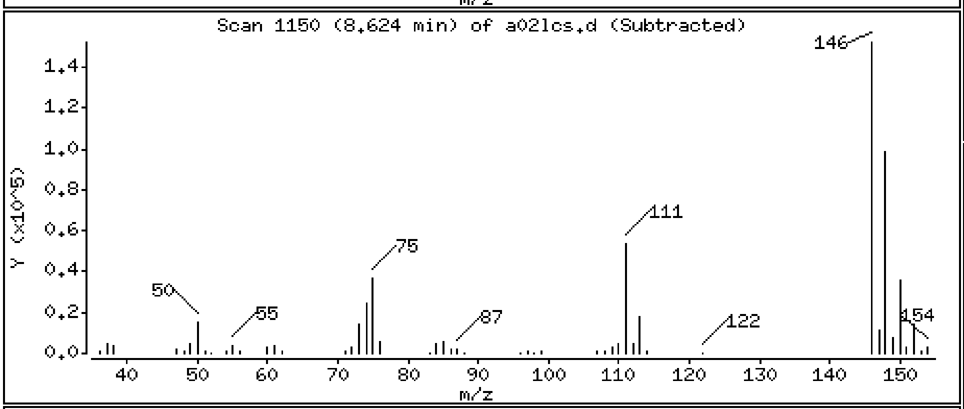
92 1,4-Dichlorobenzene

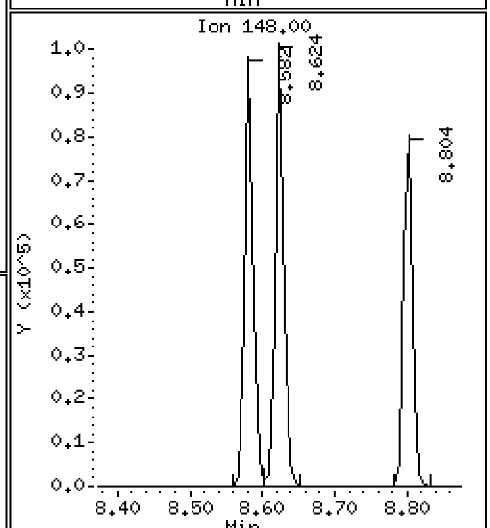
Concentration: 50.6 ppb

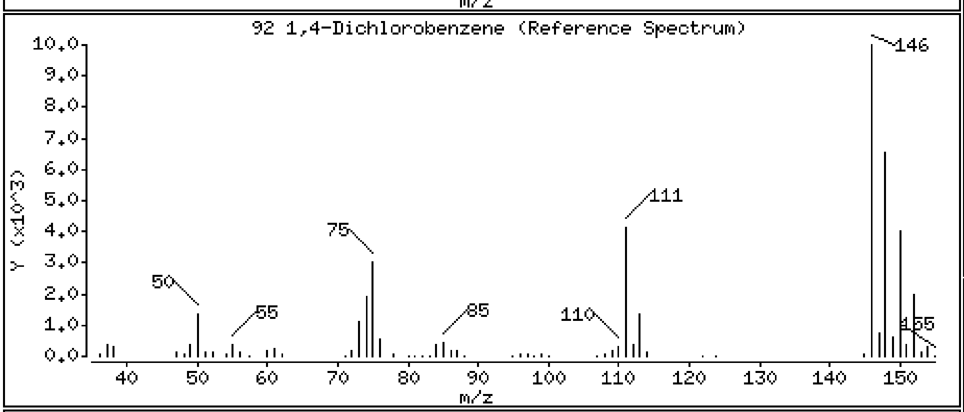
Review Code:

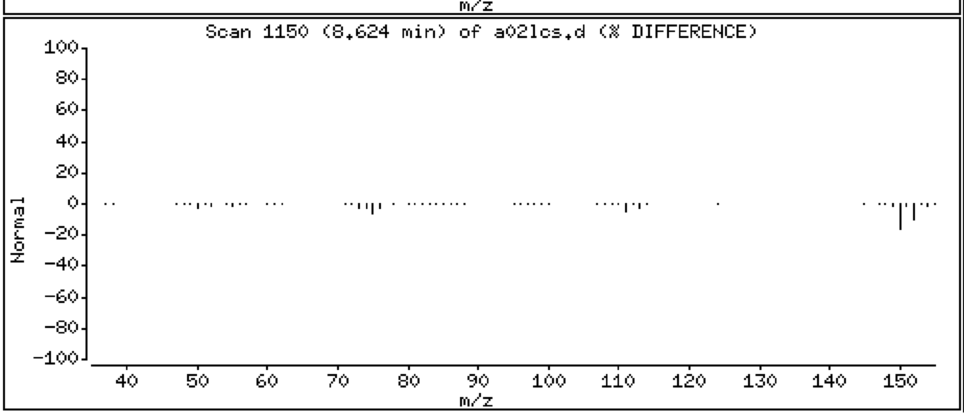


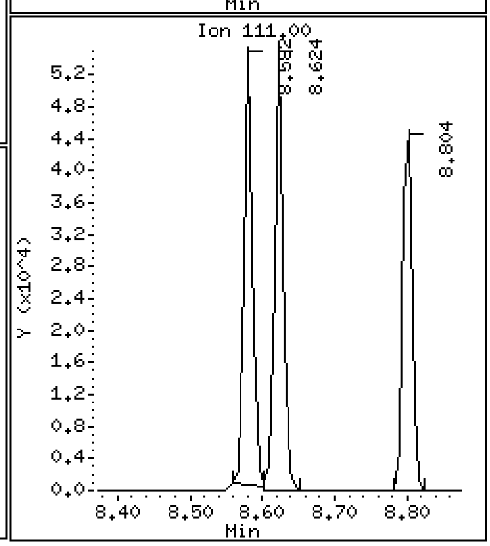












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Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

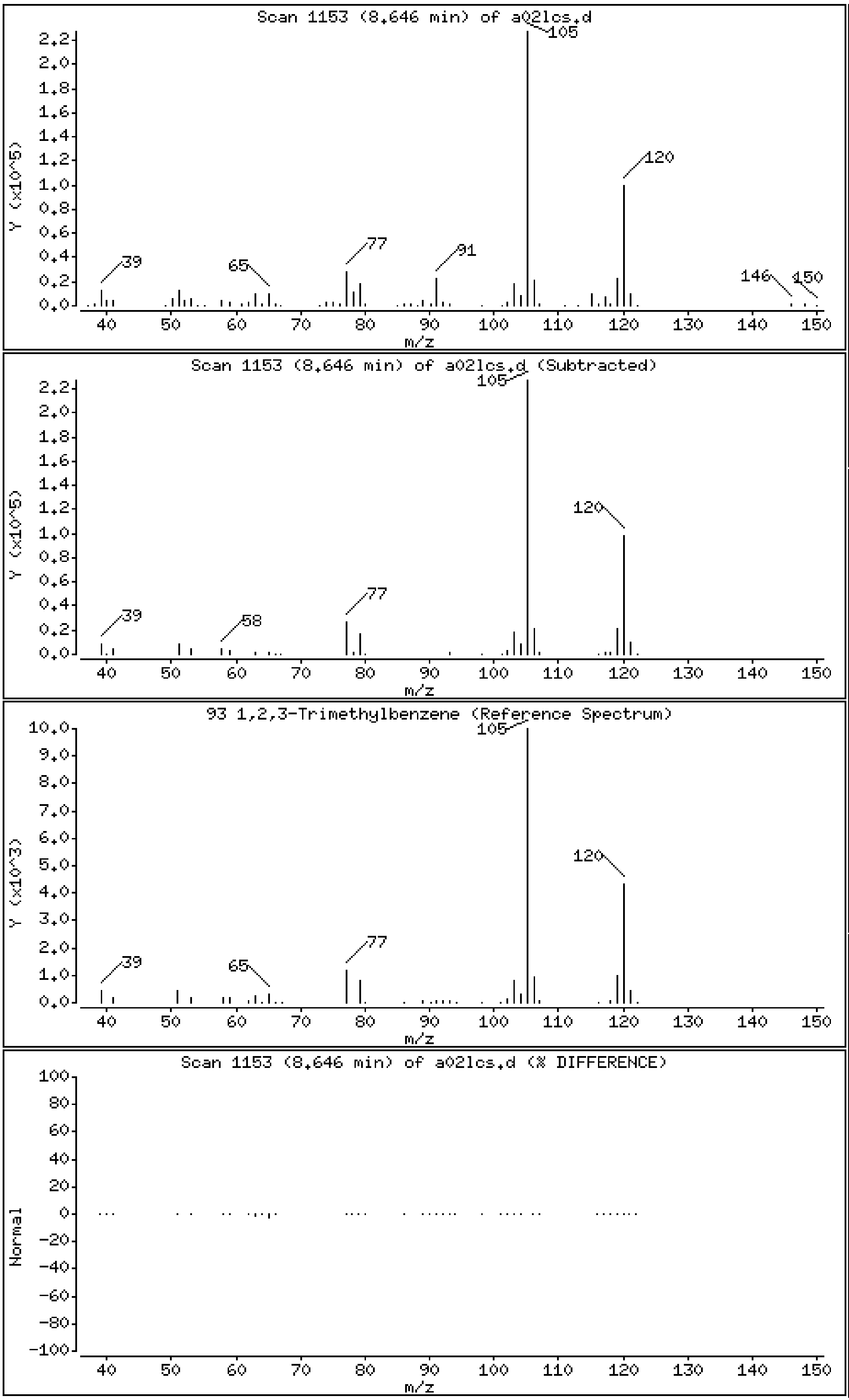
Column phase: DB-624

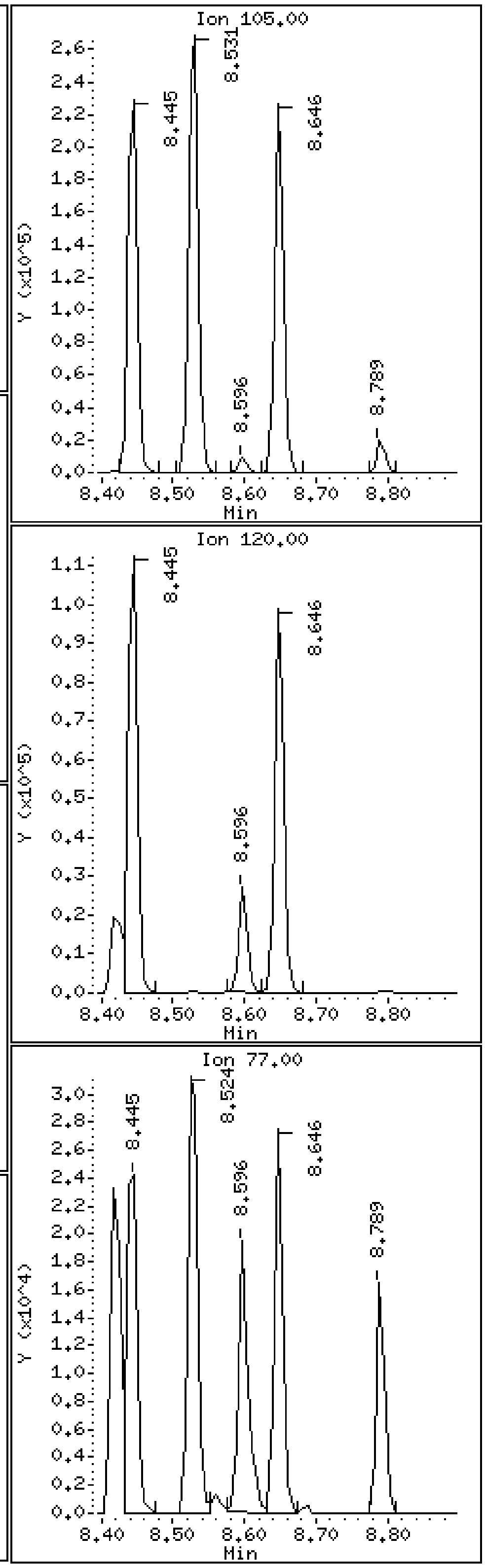
Column diameter: 0.18

93 1,2,3-Trimethylbenzene

Concentration: 48.7 ppb

Review Code:





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Date : 27-JAN-2023 11:35

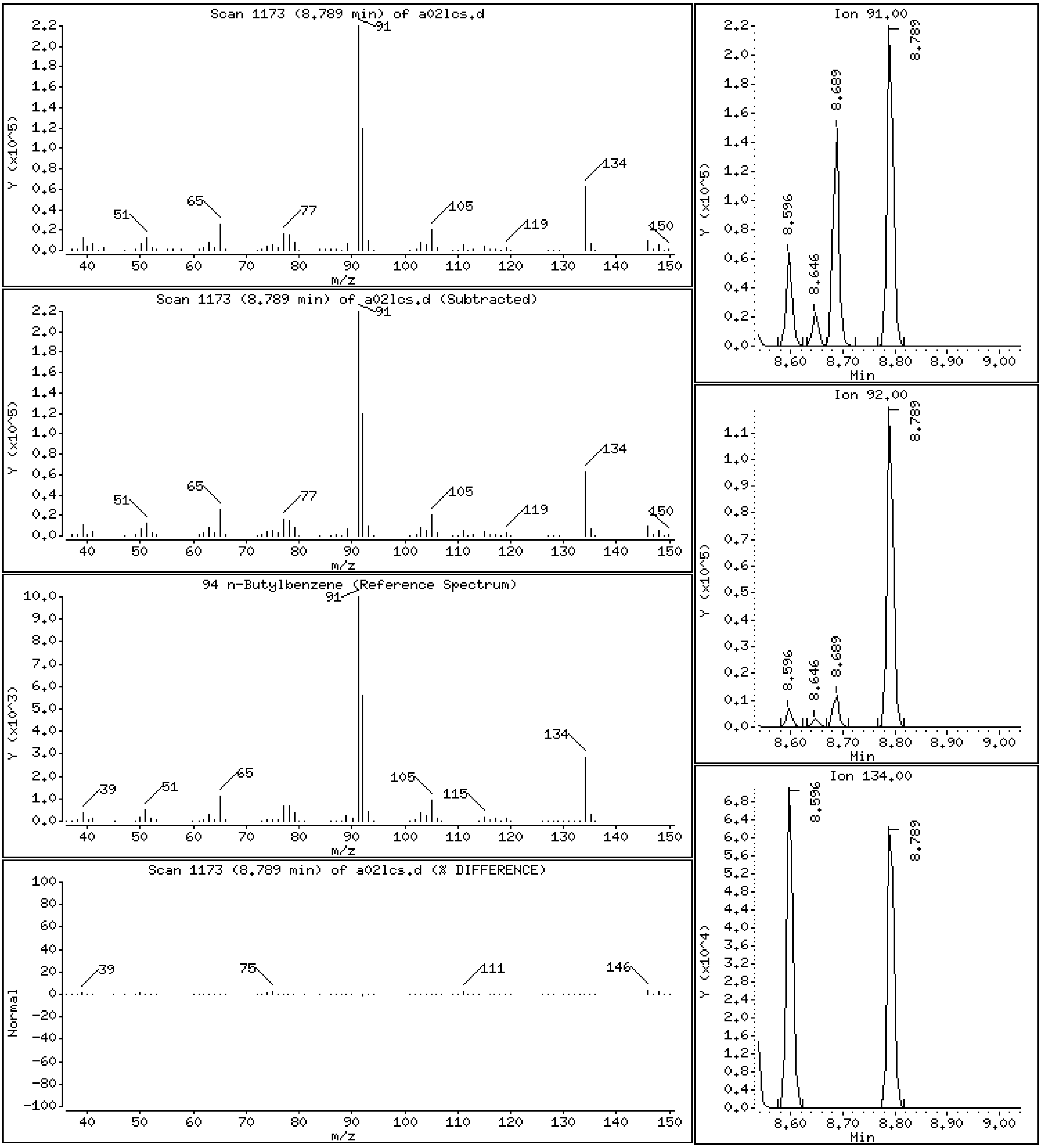
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

94 n-Butylbenzene Concentration: 49.5 ppb Review Code:



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Date : 27-JAN-2023 11:35

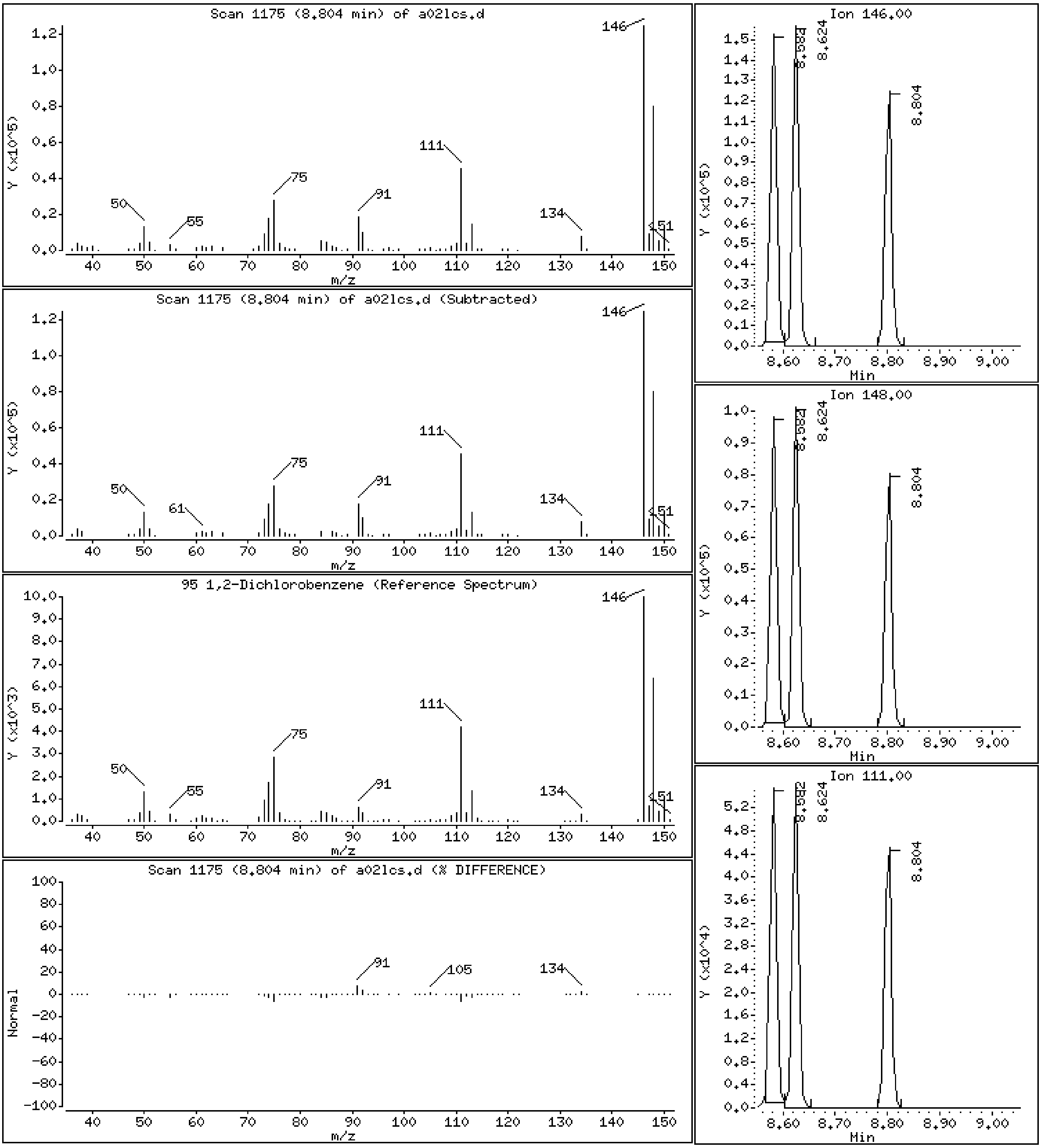
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

95 1,2-Dichlorobenzene Concentration: 49.3 ppb Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a021cs.d

Date : 27-JAN-2023 11:35

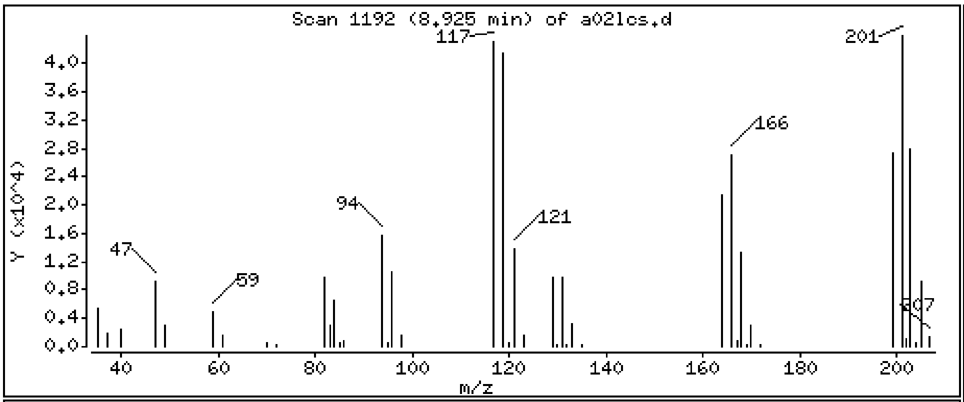
Client ID: Instrument: 50mv2a.i

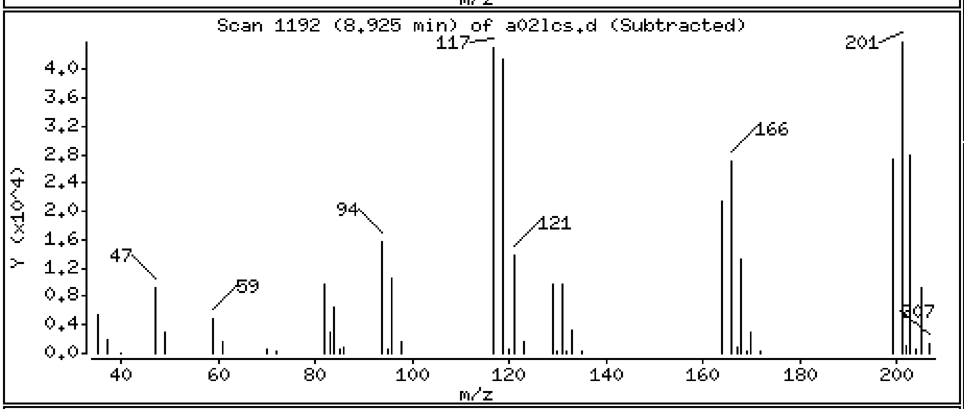
Sample Info: 3289829,336609:5

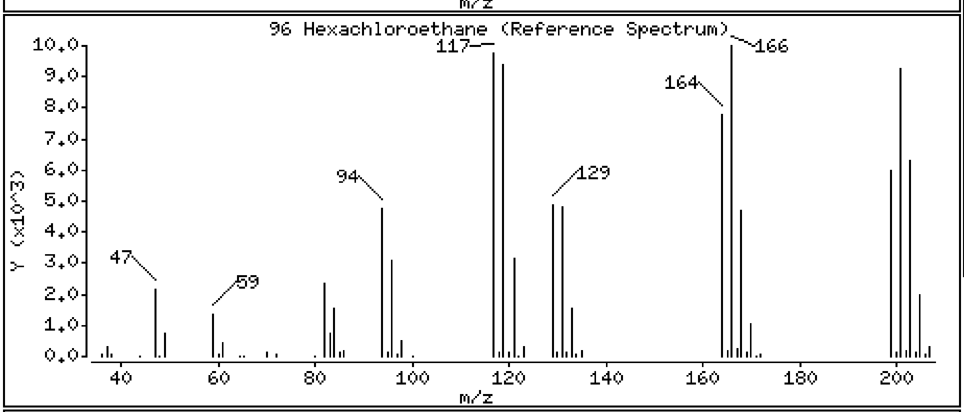
Purge Volume: 5.0 Operator: tkg

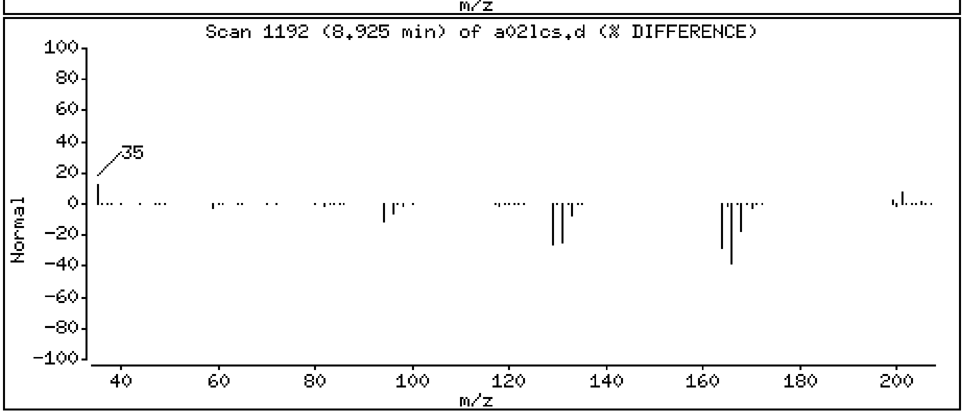
Column phase: DB-624 Column diameter: 0.18

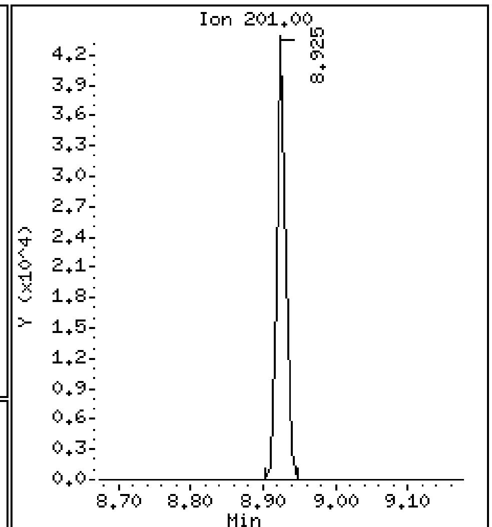
96 Hexachloroethane Concentration: 53.2 ppb Review Code:

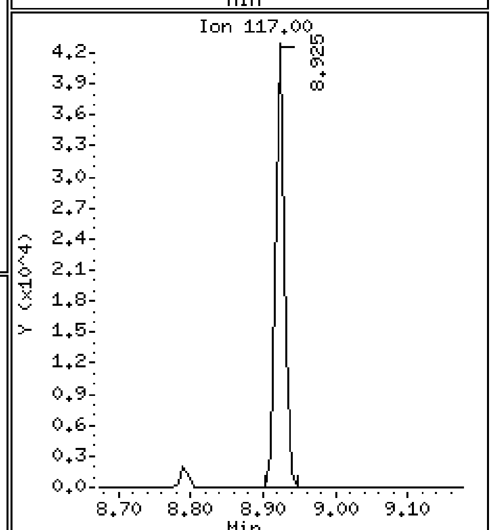












Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a021cs.d

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

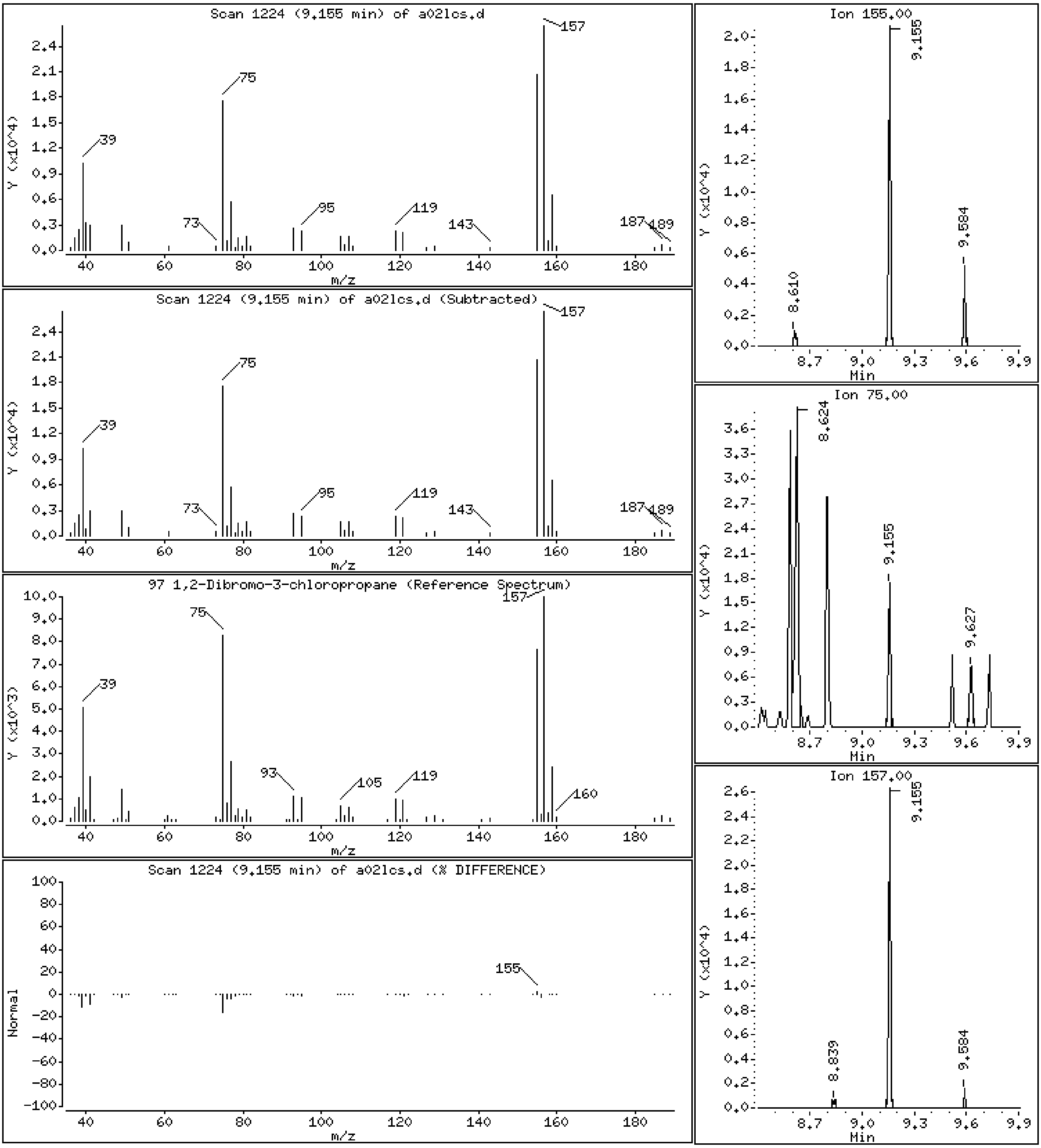
Column phase: DB-624

Column diameter: 0.18

97 1,2-Dibromo-3-chloropropane

Concentration: 49.5 ppb

Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a02lcs.d

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

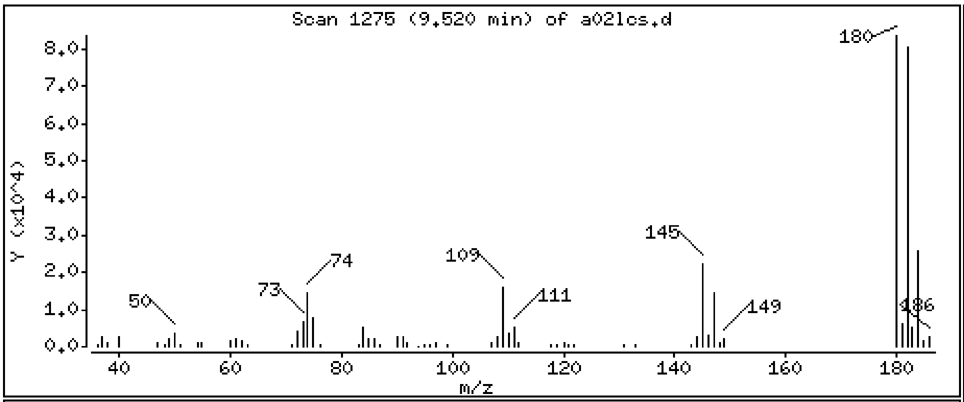
Column phase: DB-624

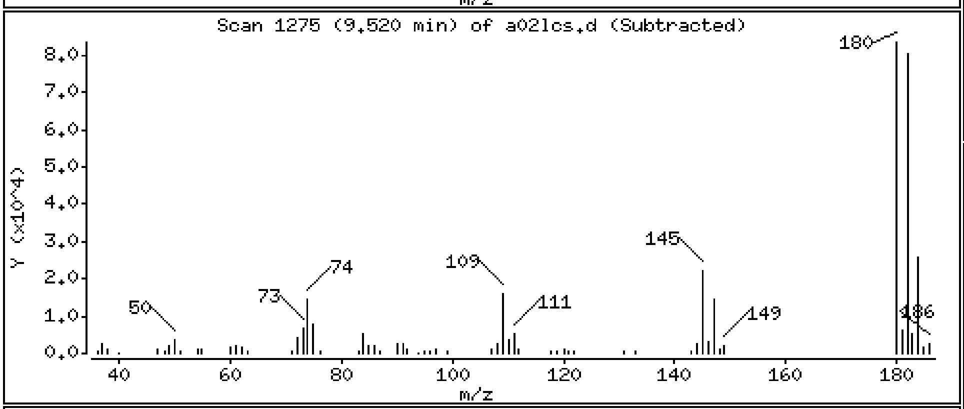
Column diameter: 0.18

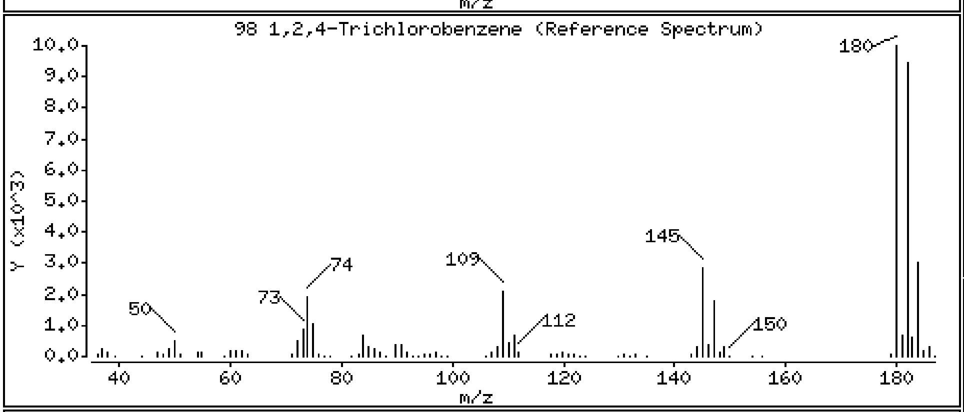
98 1,2,4-Trichlorobenzene

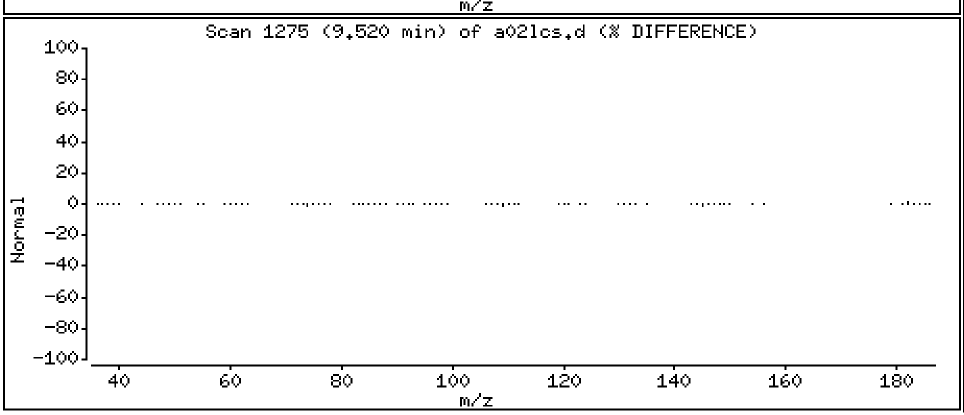
Concentration: 48.9 ppb

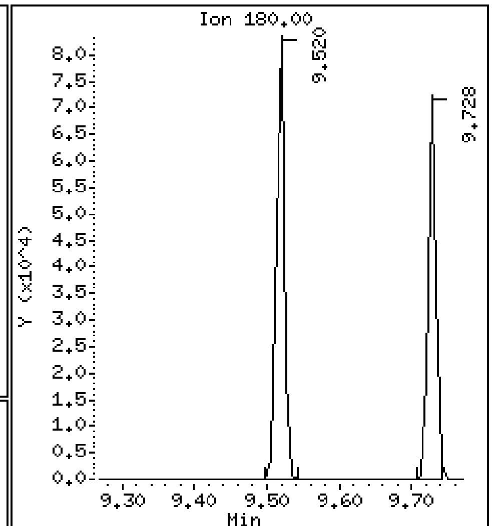
Review Code:

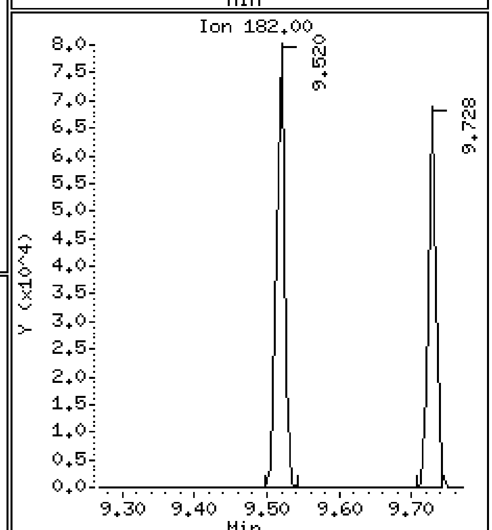


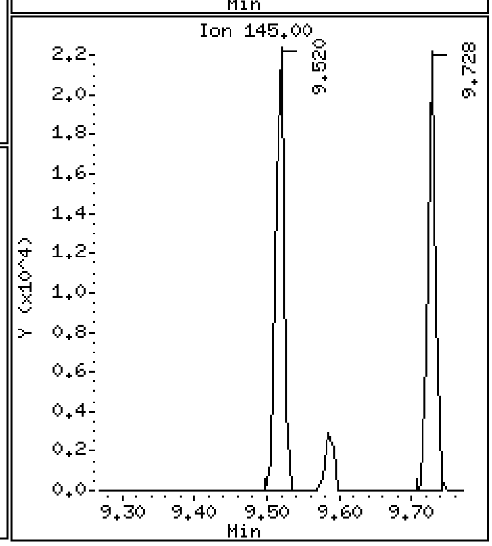












Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a021cs.d

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

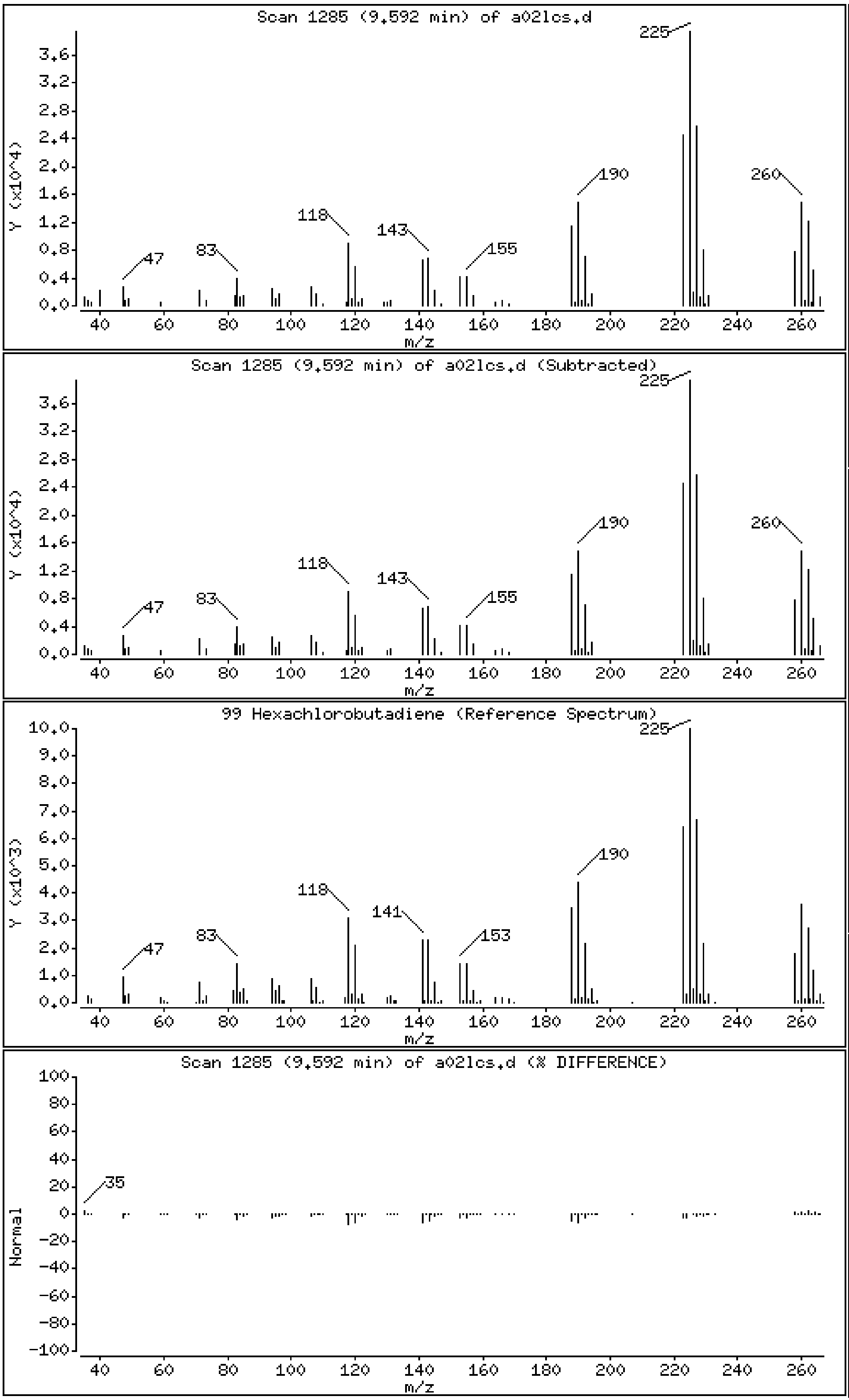
Column phase: DB-624

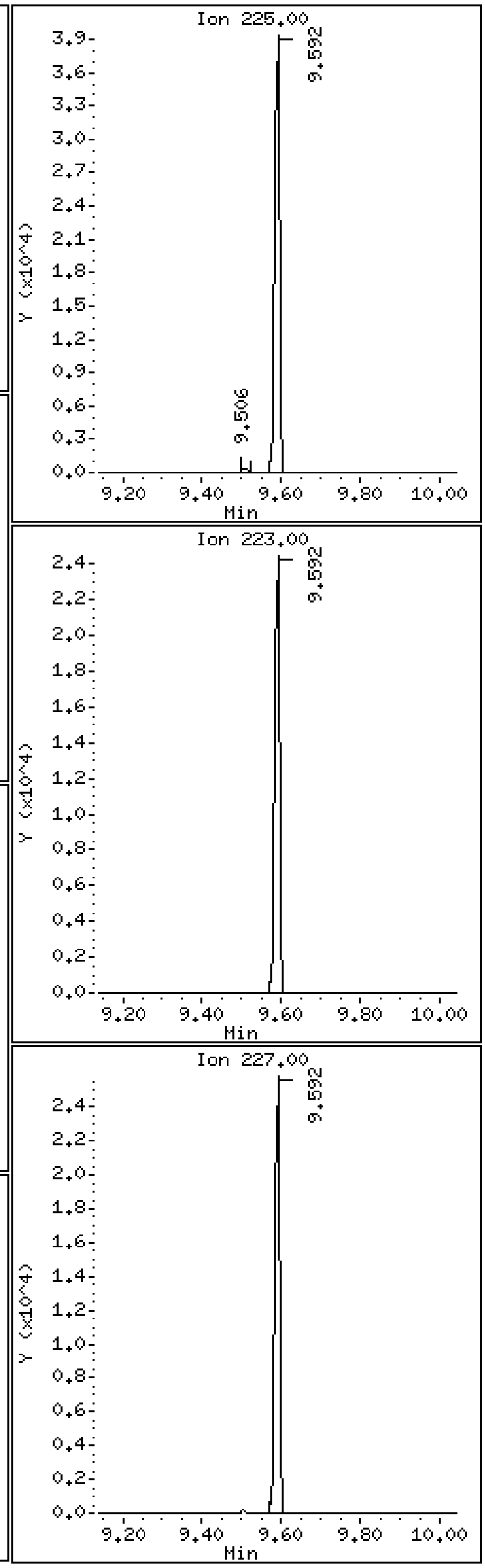
Column diameter: 0.18

99 Hexachlorobutadiene

Concentration: 51.4 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a02lcs.d

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

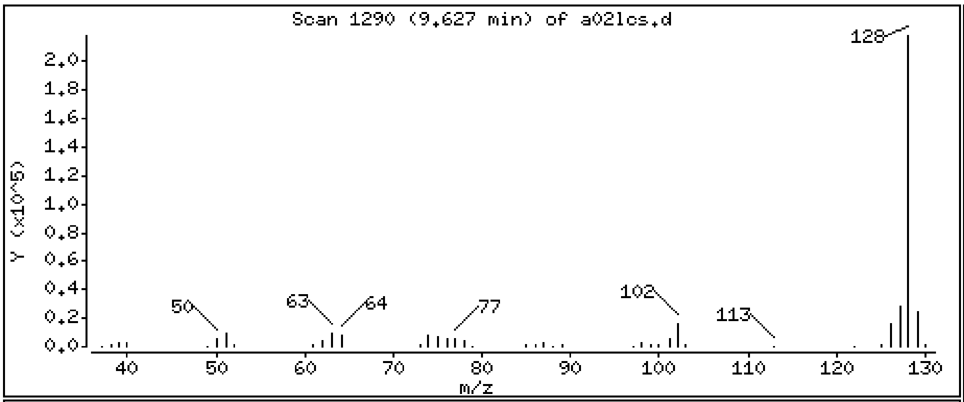
Column phase: DB-624

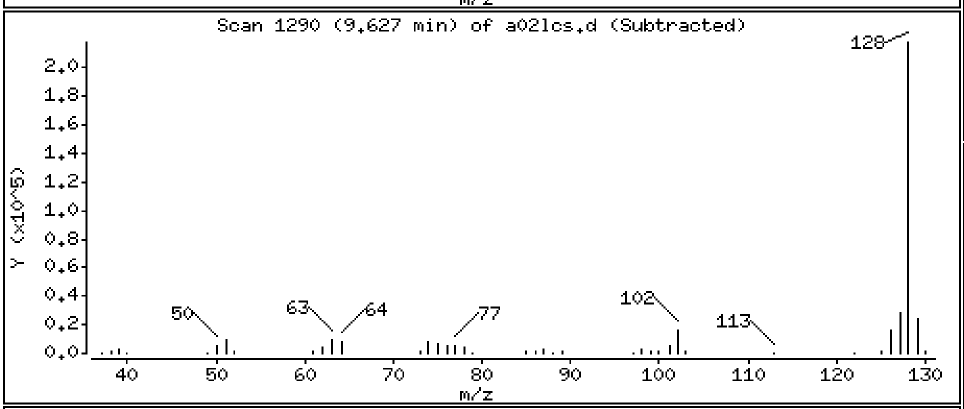
Column diameter: 0.18

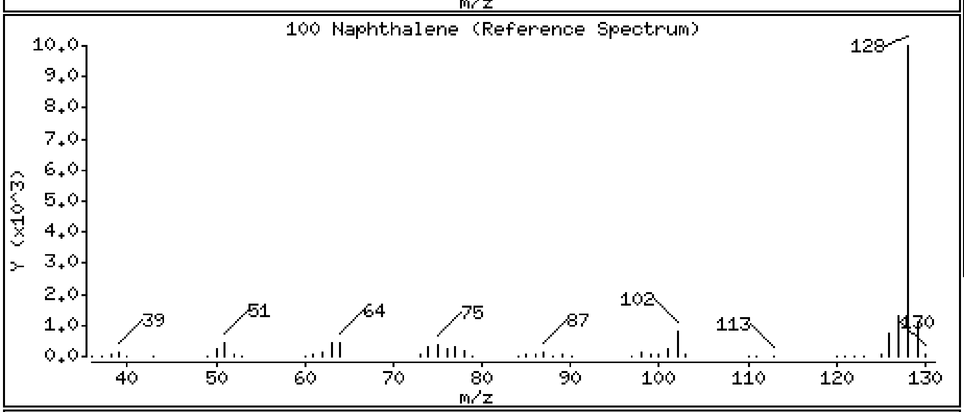
100 Naphthalene

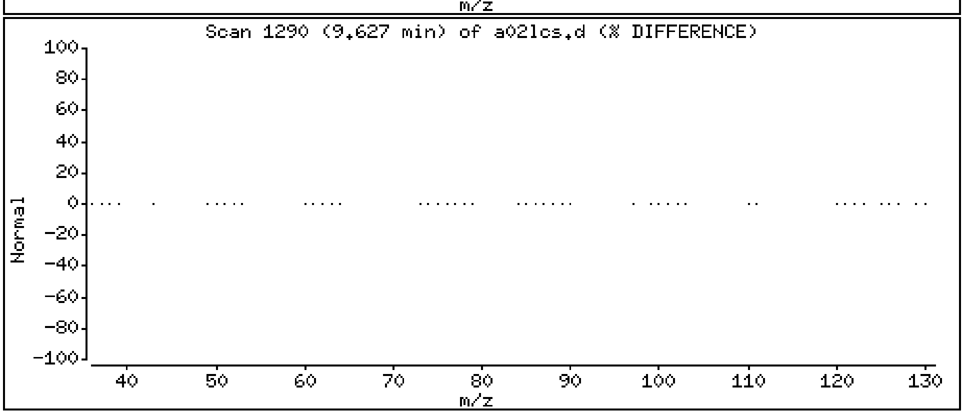
Concentration: 52.9 ppb

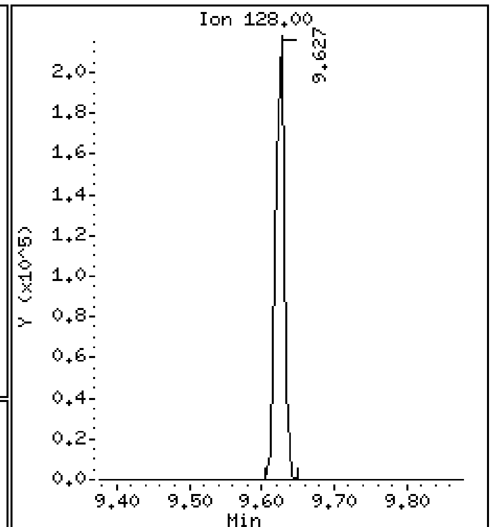
Review Code:

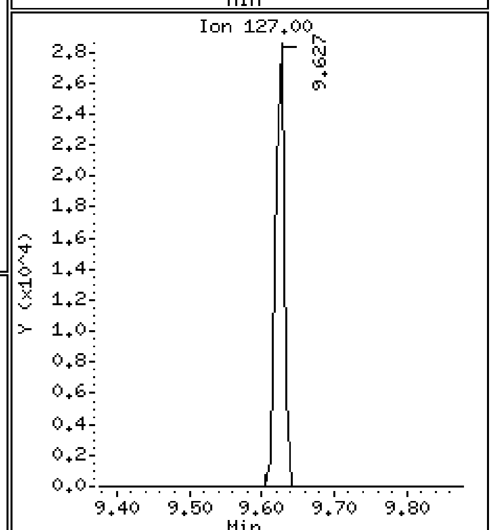












Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a021cs.d

Date : 27-JAN-2023 11:35

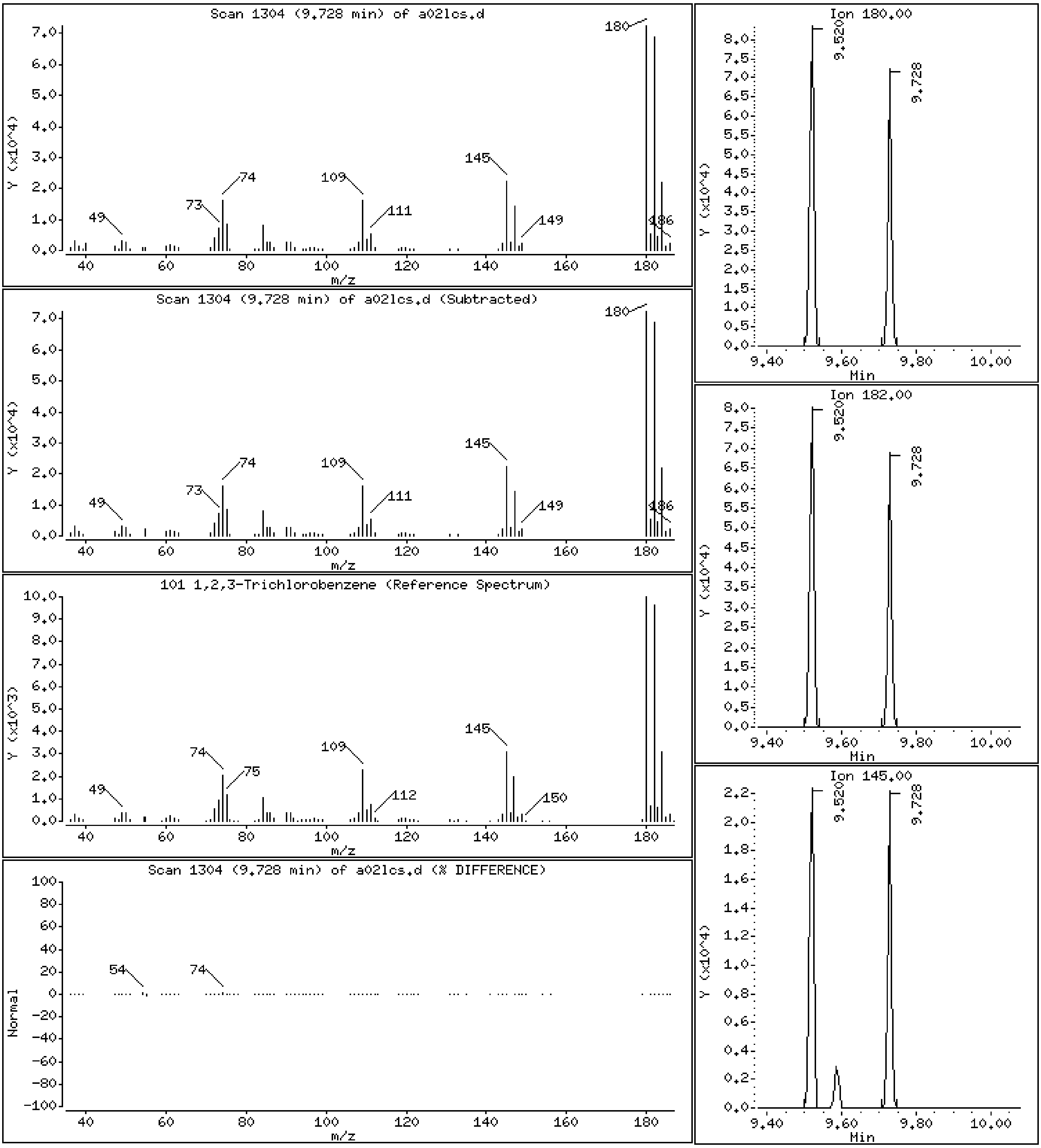
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

101 1,2,3-Trichlorobenzene Concentration: 52.5 ppb Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a02lcs.d

Date : 27-JAN-2023 11:35

Client ID:

Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0

Operator: tkg

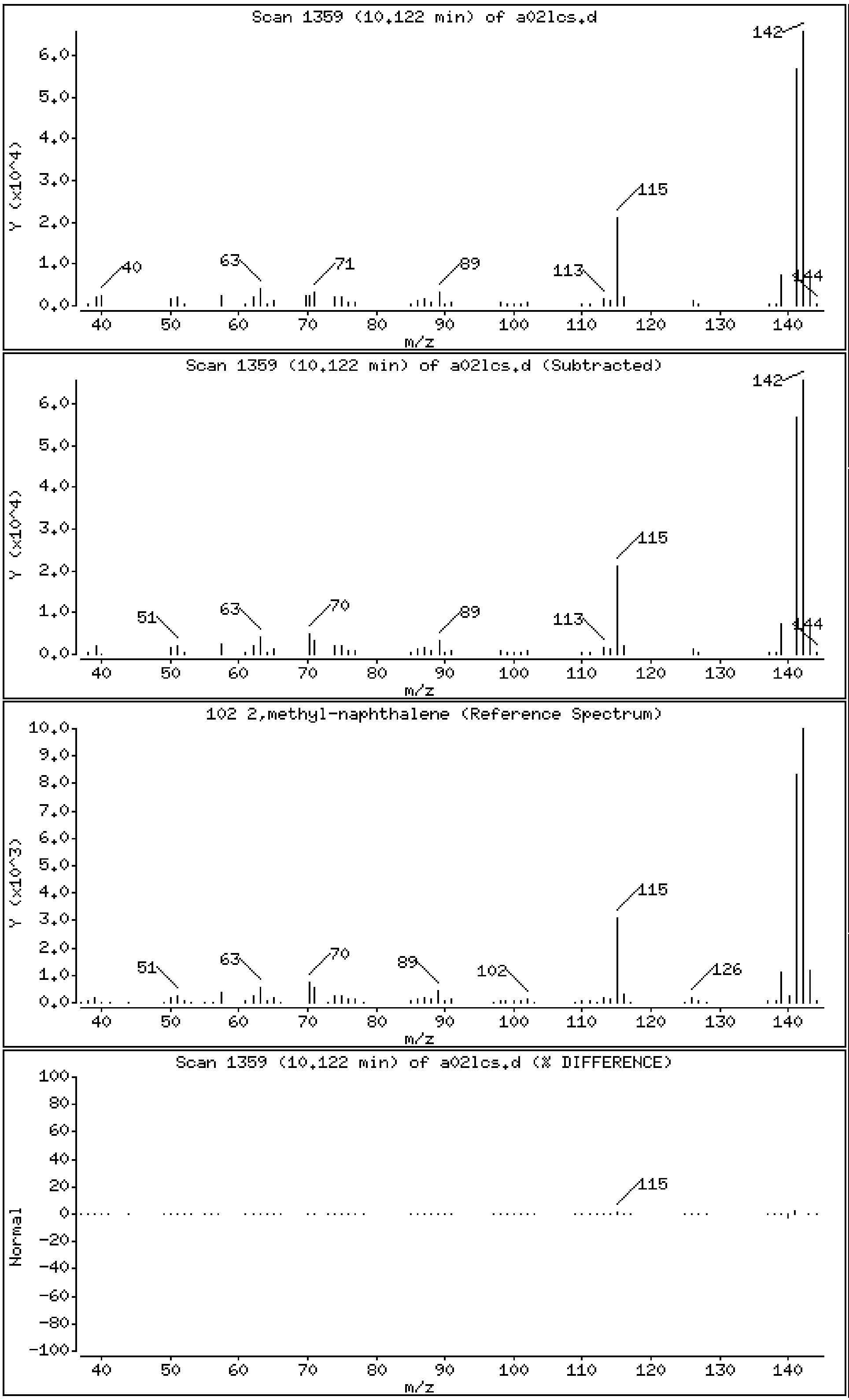
Column phase: DB-624

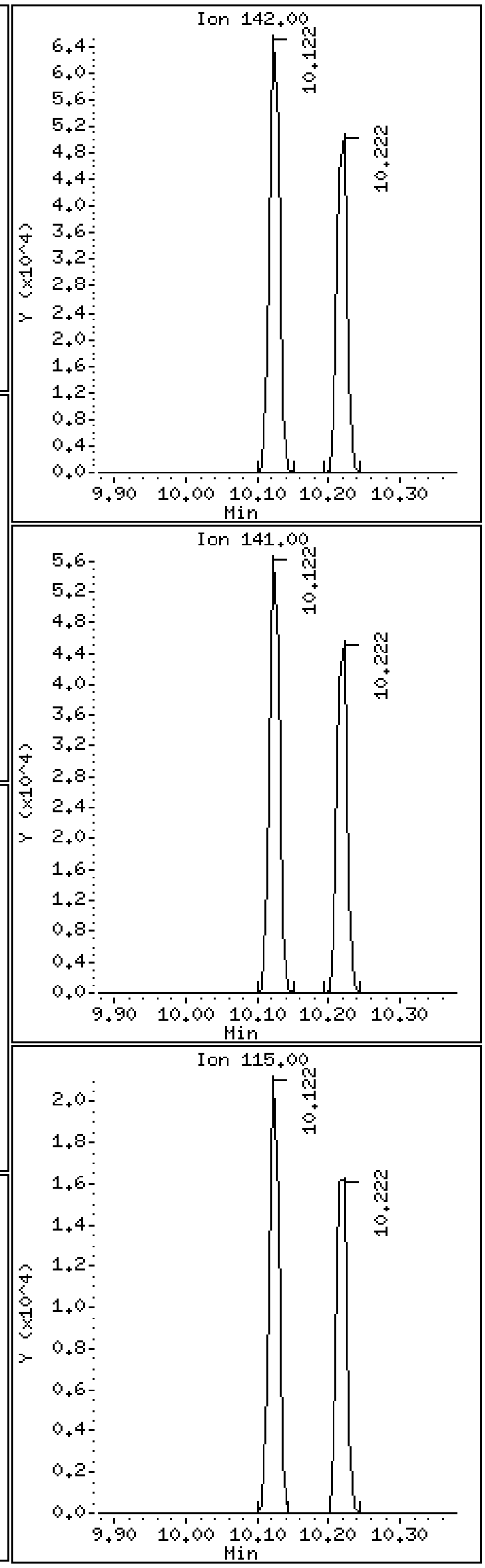
Column diameter: 0.18

102 2,methyl-naphthalene

Concentration: 52.0 ppb

Review Code:





Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a02lcs.d

Date : 27-JAN-2023 11:35

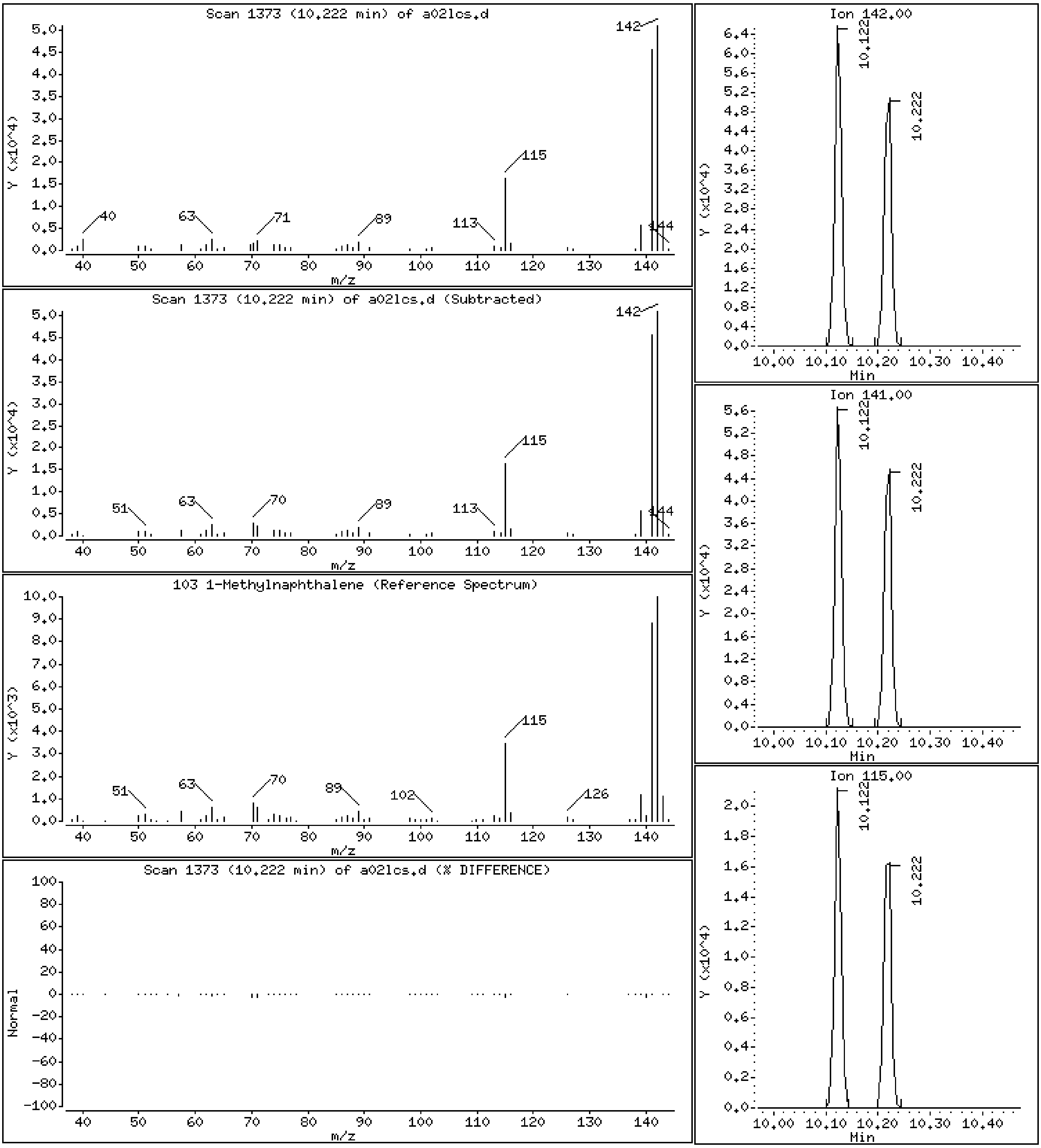
Client ID: Instrument: 50mv2a.i

Sample Info: 3289829,336609:5

Purge Volume: 5.0 Operator: tkg

Column phase: DB-624 Column diameter: 0.18

103 1-Methylnaphthalene Concentration: 50.1 ppb Review Code:



Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b\a021cs.d

Date : 27-JAN-2023 11:35

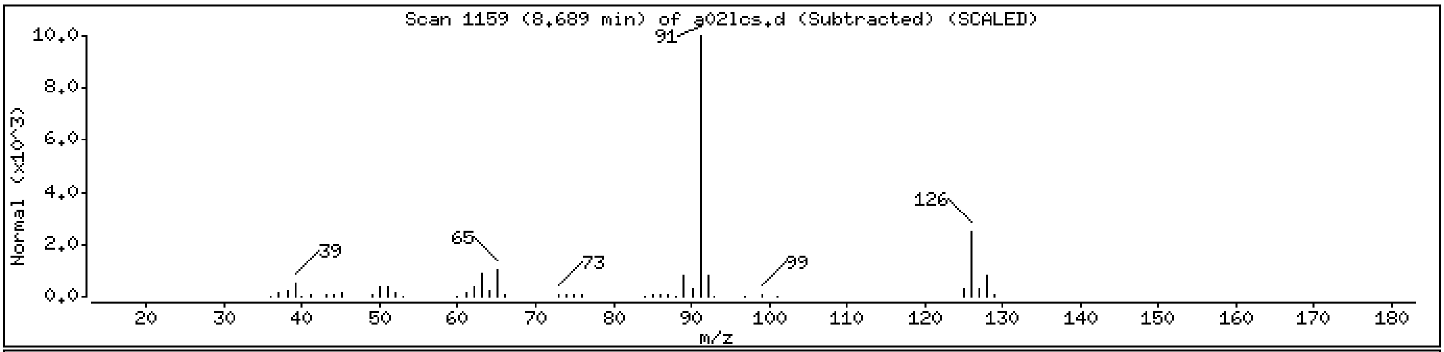
Client ID: Instrument: 50mv2a.i

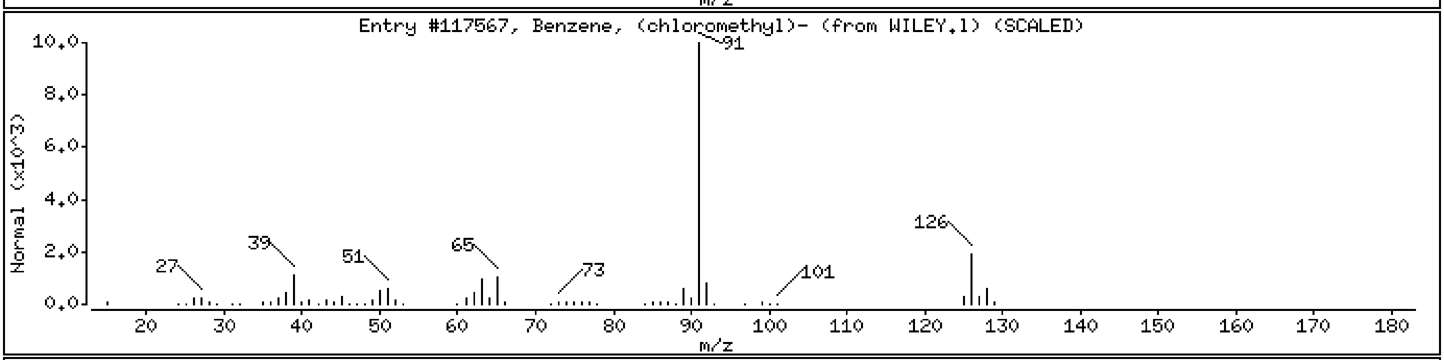
Sample Info: 3289829,336609:5

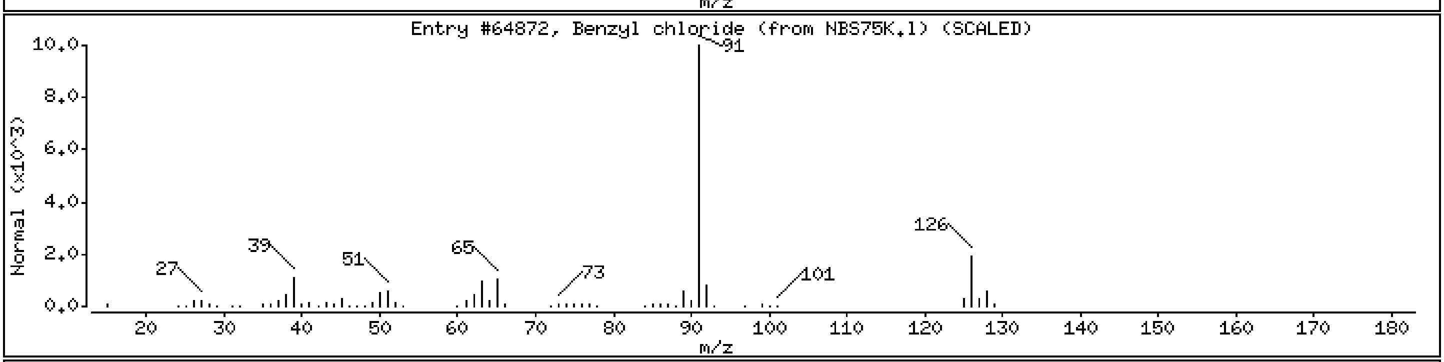
Purge Volume: 5.0 Operator: tkg

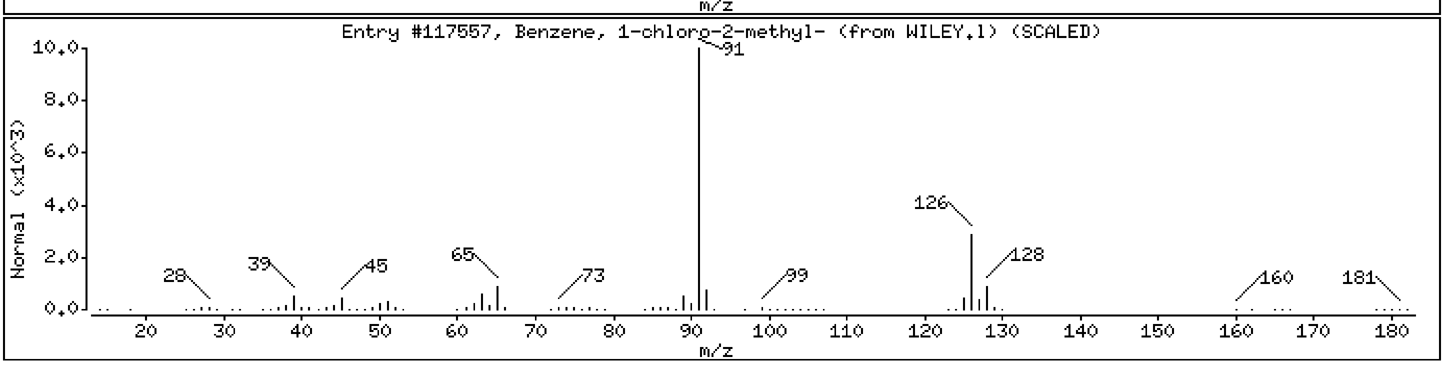
Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (chloromethyl)-	100-44-7	WILEY.l	117567	91	C7H7Cl	126
Benzyl chloride	100-44-7	NBS75K.l	64872	91	C7H7Cl	126
Benzene, 1-chloro-2-methyl-	95-49-8	WILEY.l	117557	90	C7H7Cl	126









Data File: \\192.168.50.6\chem\50mv2a.i\a012723.b/a02lcs.d
Injection Date: 27-JAN-2023 11:35
Instrument: 50mv2a.i
Lab Sample ID: 3289829
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvcb.i
Column DB-624 20m X 0.18mm Helium
Method:
Misc. Prep Info [L]:
ISTD lot:
Surr. lot: 335756:5
Lot:
Tune std: ____________________
Cal. std: ____________________

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
~~1/b00.d~~	8260-TUNE	L/	BFB	1	7	-bfb/all	1/16/23	12:45	DAP	
~~1/b000.d~~	8260-TUNE	L/	BFB	1	7	-bfb/all	1/16/23	13:17	DAP	
1/b00bfb.d	8260-TUNE,335771	L/166065	BFB	1	7	-bfb/all	1/16/23	13:49	DAP	
1/b01.d	8260-CAL1,335761	L/166065	CALIB_1	1	<2	-b8260_a_c/all	1/16/23	14:21	DAP	
1/b01lqc.d	8260-CAL1,335761	L/166065	LQC	1	<2	-b8260_a_c/all	1/16/23	14:21	DAP	
1/b02.d	8260-CAL2,335762	L/166065	CALIB_2	1	<2	-b8260_a_c/all	1/16/23	14:54	DAP	
1/b02lqc.d	8260-CAL2,335762	L/166065	LQC	1	<2	-b8260_a_c/all	1/16/23	14:54	DAP	
1/b03.d	8260-CAL3,335763	L/166065	CALIB_3	1	<2	-b8260_a_c/all	1/16/23	15:26	DAP	
1/b03lqc.d	8260-CAL3,335763	L/166065	LQC	1	<2	-b8260_a_c/all	1/16/23	15:26	DAP	
1/b04.d	8260-CAL4,335764	L/166065	CALIB_4	1	<2	-b8260_a_c/all	1/16/23	15:59	DAP	
1/b05.d	8260-CAL5,335765	L/166065	CALIB_5	1	<2	-b8260_a_c/all	1/16/23	16:31	DAP	
1/b06.d	8260-CAL6,335766	L/166065	CALIB_6	1	<2	-b8260_a_c/all	1/16/23	17:04	DAP	
1/b07.d	8260-CAL7,335767	L/166065	CALIB_7	1	<2	-b8260_a_c/all	1/16/23	17:36	DAP	
1/b07mqc.d	8260-CAL7,335767	L/166065	MQC	1	<2	-b8260_a_c/all	1/16/23	17:36	DAP	
1/b08.d	8260-CAL8,335768	L/166065	CALIB_8	1	<2	-b8260_a_c/all	1/16/23	18:09	DAP	
1/b09.d	8260-CAL9,335769	L/166065	CALIB_9	1	<2	-b8260_a_c/335	1/16/23	18:42	DAP	
1/b11icv.d	8260-ICV,335770:	L/166065	ICV	1	<2	-b8260_a_c/all	1/16/23	19:47	DAP	
~~1/b12.d~~	R	L/	SAMPLE	1	<2	-b8260_a_c/all	1/16/23	20:19	DAP	
~~1/b13mb.d~~	MB	L/	SAMPLE	1	<2	-b8260_a_c/all	1/16/23	20:52	DAP	
~~1/b14.d~~	R	L/	SAMPLE	1	<2	-b8260_a_c/all	1/16/23	21:25	DAP	
~~1/d00bfb.d~~	8260-TUNE	L/	BFB	1	7	-bfb/all	1/16/23	21:57	DAP	
~~1/d01ccv.d~~	CCV	L/	CCALIB_7	1	7	-b8260_a_c/all	1/16/23	22:30	DAP	
~~1/d02lcs.d~~	LCS	L/	LCS	1	7	-b8260_a_c/all	1/16/23	23:03	DAP	
~~1/d03.d~~	b	L/	SAMPLE	1	<2	-b8260_a_c/all	1/16/23	23:36	DAP	
~~1/d04mb.d~~	MB	L/	SAMPLE	1	<2	-b8260_a_c/all	1/17/23	00:08	DAP	

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mvcb.i\b011623cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:31 01/17/2023

Reviewed By/Date: DAP 01.17.23 Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvda.i
Column DB-624 20m X 0.18mm Helium   Method:
Misc. Prep Info [L]:
ISTD lot: Surr. lot: 335757:5
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,335758	L/166067	BFB	1	7	-bfb/all	1/19/23	11:45	ala	
1/a00test.d	1ppb test	L/	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	11:45	ala	
1/a01rinse.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	13:19	ala	
1/a02rinse.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	13:48	ala	
1/a03rinse.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	14:18	ala	
1/a04.d	8260-CAL1,335777	L/166067	CALIB_1	1	<2	-a8260_a_c/all	1/19/23	14:47	ala	
1/a05.d	8260-CAL2,335778	L/166067	CALIB_2	1	<2	-a8260_a_c/all	1/19/23	15:17	ala	
1/a06.d	8260-CAL3,335779	L/166067	CALIB_3	1	<2	-a8260_a_c/all	1/19/23	15:46	ala	
1/a07.d	8260-CAL4,335780	L/166067	CALIB_4	1	<2	-a8260_a_c/all	1/19/23	16:16	ala	
1/a08.d	8260-CAL5,335781	L/166067	CALIB_5	1	<2	-a8260_a_c/all	1/19/23	16:45	ala	
1/a09(6)	8260-CAL6,335782	L/166067	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	17:15	ala	Not used - bad purge
1/a10.d	8260-CAL7,335783	L/166067	CALIB_7	1	<2	-a8260_a_c/all	1/19/23	17:44	ala	
1/a11.d	8260-CAL8,335784	L/166067	CALIB_8	1	<2	-a8260_a_c/all	1/19/23	18:13	ala	
1/a12.d	8260-CAL9,335785	L/166067	CALIB_9	1	<2	-a8260_a_c/all	1/19/23	18:43	ala	
1/a13mb.d	BLANK	L/	BLANK	1	7	-a8260_a_c/all	1/19/23	19:12	ala	
1/a14icv.d	8260-ICV,335786:	L/166067	ICV	1	<2	-a8260_a_c/all	1/19/23	19:42	ala	
1/c00bfb.d	8260-TUNE,335758	L/166067	BFB	1	7	-bfb/all	1/19/23	20:11	ala	
1/c01ccv.d	8260-CCV,335803:	L/166067	CCALIB_7	1	7	-a8260_a_c/all	1/19/23	20:40	ala	
1/c02lcs.d	LCS,335755:5	L/	LCS	1	7	-a8260_a_c/all	1/19/23	21:10	ala	
1/c03.d	blank	L/	SAMPLE	1	<2	-a8260_a_c/all	1/19/23	21:39	ala	
1/c04mb.d	BLANK	L/	BLANK	1	7	-a8260_a_c/all	1/19/23	22:09	ala	
1/e00bfb.d	8260-TUNE,335758	L/166067	BFB	1	7	-bfb/all	1/20/23	13:37	ala	
1/e01.d	8260-CAL6,335782	L/166067	CALIB_6	1	<2	-a8260_a_c/all	1/20/23	14:03	ala	using this CAL6 for curve

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days. ✓

File Path 1: \\192.168.50.6\chem\50mvda.i\a011923cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:54 01/20/2023

Reviewed By/Date: AD 1.20.23   Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvda.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Lot:
Tune std: ________

Method:

Surr. lot: 335757:5

Cal. std: ________

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a01bfb.d	8260-TUNE,335758	L/166067	BFB	1	7	-bfb/all	1/23/23	10:43	tkg	
1/a02ccv.d	8260-CCV,335929:	L/166067	CCALIB_7	1	7	-a8260_a_c/all	1/23/23	11:09	tkg	
1/a03lcs.d	3287446,336256:5	L/166195	LCS	1	7	-a8260_a_c/all	1/23/23	11:36	tkg	
1/a03lcsicv.d	8260-ICV	L/	ICV	1	<2	-a8260_a_c/all	1/23/23	11:36	tkg	
1/a05mb.d	3287445	L/166195	BLANK	1	7	-a8260_a_c/all	1/23/23	12:29	tkg	
1/a06.d	50335753021	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	12:56	tkg	
1/a07.d	50335753019	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	13:23	tkg	
1/a08.d	50335753020	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	13:50	tkg	
1/a09.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	14:16	tkg	
1/a10.d	50335753018x10	L/166195	SAMPLE	10	<2	-a8260_a_c/all	1/23/23	14:43	tkg	FI
1/a11.d	50335726001	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	15:09	tkg	↑ Cis 1,2 DCE rr 10x
1/a12.d	50335726002	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	15:36	tkg	
1/a13.d	50335726003	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	16:03	tkg	
1/a14.d	50335726005	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	16:29	tkg	rr 100
1/a15.d	50335726006	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	16:56	tkg	
1/a16.d	50335668001	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	17:23	tkg	
1/a17.d	50335696001	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	17:49	tkg	
1/a18.d	50335624001	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	18:16	tkg	
1/a19.d	50335624002	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	18:43	tkg	
1/a20.d	50335726004	L/166195	SAMPLE	1	<2	-a8260_a_c/all	1/23/23	19:10	tkg	↑ Cis 1,2 DCE rr 10x
1/a21.d	3287469,336256:5	L/166195	MS	1	<2	-a8260_a_c/all	1/23/23	19:36	tkg	
1/a22.d	3287470,336256:5	L/166195	MSD	1	<2	-a8260_a_c/all	1/23/23	20:03	tkg	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mvda.i\a012323.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 06:52 01/24/2023

Reviewed By/Date: TKG 1.24.23

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INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvcb.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Lot:
Tune std: ______________

Method:

Surr. lot: 335756:5

Cal. std: ______________

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00	AWAKE	L/	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	11:54	tkg	
1/b00bfb	8260-TUNE,335771	L/166065	BFB	1	7	-bfb/all	1/24/23	12:26	tkg	
1/b01bfb.d	8260-TUNE,335771	L/166065	BFB	1	7	-bfb/all	1/24/23	12:59	tkg	used CCV as BFB
1/b01ccv	8260-CCV	L/	CCALIB_7	1	7	-b8260_a_c/all	1/24/23	12:59	tkg	used LCS as CCV
1/b02ccv-524.d	8260-CCV,336766:	L/166064	CCALIB_7	1	7	-b8260_a_c/all	1/24/23	13:31	tkg	
1/b02ccv.d	8260-CCV,336766:	L/166064	CCALIB_7	1	7	-b8260_a_c/all	1/24/23	13:31	tkg	
1/b02lcsw-524.d	3288017,335755:5	L/166220	LCS	1	7	-b8260_a_c/all	1/24/23	13:31	tkg	
1/b02lcsw.d	3288023,335755:5	L/166221	LCS	1	7	-b8260_a_c/all	1/24/23	13:31	tkg	
1/b03	rinse	L/	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	14:04	tkg	
1/b04mbw.d	3288022	L/166221	BLANK	1	7	-b8260_a_c/all	1/24/23	14:36	tkg	
1/b05.d	50335713005x5	L/166220	SAMPLE	5	<2	-b8260_a_c/all	1/24/23	15:09	~~DAP~~ TKG	F1
1/b06.d	50335726001x10	L/166195	SAMPLE	10	<2	-b8260_a_c/all	1/24/23	15:41	tkg	
1/b07.d	50335726002x10	L/166195	SAMPLE	10	<2	-b8260_a_c/all	1/24/23	16:14	tkg	
1/b08.d	50335726003x10	L/166195	SAMPLE	10	<2	-b8260_a_c/all	1/24/23	16:46	tkg	
1/b09.d	50335726004x10	L/166195	SAMPLE	10	<2	-b8260_a_c/all	1/24/23	17:19	tkg	
1/b10.d	50335726005x100	L/166195	SAMPLE	100	<2	-b8260_a_c/all	1/24/23	17:52	tkg	
1/b11.d	50335800008	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	18:24	tkg	
1/b12.d	50335800010	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	18:57	tkg	
1/b13.d	50335800011	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	19:29	tkg	
1/b14.d	50335800012	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	20:02	tkg	
1/b15.d	50335800013	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	20:34	tkg	
1/b16.d	50335800014	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	21:07	tkg	
1/b17.d	50335800015	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	21:39	tkg	
1/b18.d	50335800009	L/166221	SAMPLE	1	<2	-b8260_a_c/all	1/24/23	22:12	tkg	
1/b19.d	3288024,335755:5	L/166221	MS	1	<2	-b8260_a_c/all	1/24/23	22:44	tkg	
1/b20.d	3288025,335755:5	L/166221	MSD	1	<2	-b8260_a_c/all	1/24/23	23:17	tkg	
1/b21.d	50336002001x1.1	L/166219	SAMPLE	1.1	<2	-b8260_a_c/all	1/24/23	23:49	tkg	

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

✓

File Path 1: \\192.168.50.6\chem\50mvcb.i\b012423.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 05:47 01/26/2023

Reviewed By/Date: TKG 1-26-22

Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2a.i
Column DB-624 20m X 0.18mm Helium
Method:
Misc. Prep Info [L]:
ISTD lot:
Surr. lot: 336023:5
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,336024	L/166154	BFB	1	7	-bfb/all	1/24/23	11:55	tkg	
1/a01.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	12:24	tkg	
1/a02.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	12:53	tkg	
1/a03.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	13:22	tkg	
1/a04.d	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	13:51	tkg	
1/a05cal1-lqc.d	8260-CAL1,336618	L/166154	LQC	1	<2	-a8260_a_c/all	1/24/23	14:21	tkg	
1/a05cal1.d	8260-CAL1,336618	L/166154	CALIB_1	1	<2	-a8260_a_c/all	1/24/23	14:21	tkg	
1/a06cal2-lqc.d	8260-CAL2,336619	L/166154	LQC	1	<2	-a8260_a_c/all	1/24/23	14:50	tkg	
1/a06cal2.d	8260-CAL2,336619	L/166154	CALIB_2	1	<2	-a8260_a_c/all	1/24/23	14:50	tkg	
1/a07cal3-lqc.d	8260-CAL3,336620	L/166154	LQC	1	<2	-a8260_a_c/all	1/24/23	15:19	tkg	
1/a07cal3.d	8260-CAL3,336620	L/166154	CALIB_3	1	<2	-a8260_a_c/all	1/24/23	15:19	tkg	
1/a08cal4.d	8260-CAL4,336621	L/166154	CALIB_4	1	<2	-a8260_a_c/all	1/24/23	15:48	tkg	
1/a08cal4mdl.d	8260-CAL4,336621	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	15:48	tkg	
1/a09cal5.d	8260-CAL5,336622	L/166154	CALIB_5	1	<2	-a8260_a_c/all	1/24/23	16:17	tkg	
1/a09cal5mdl.d	8260-CAL5,336622	L/	SAMPLE	1	<2	-a8260_a_c/all	1/24/23	16:17	tkg	
1/a10cal6.d	8260-CAL6,336623	L/166154	CALIB_6	1	<2	-a8260_a_c/all	1/24/23	16:47	tkg	
1/a11cal7-mqc.d	8260-CAL7,336624	L/166154	MQC	1	<2	-a8260_a_c/all	1/24/23	17:16	tkg	
1/a11cal7.d	8260-CAL7,336624	L/166154	CALIB_7	1	<2	-a8260_a_c/all	1/24/23	17:16	tkg	
1/a12cal8.d	8260-CAL8,336625	L/166154	CALIB_8	1	<2	-a8260_a_c/all	1/24/23	17:45	tkg	
1/a13cal9.d	8260-CAL9,336626	L/166154	CALIB_9	1	<2	-a8260_a_c/all	1/24/23	18:14	tkg	
1/a15icv.d	8260-ICV,336627	L/166164	ICV	1	<2	-a8260_a_c/all	1/24/23	19:13	tkg	
1/a17ccv.d	8260--CCV,336835	L/166154	CCALIB_7	1	7	-a8260_a_c/all	1/24/23	20:11	tkg	
1/a000bfb.d	8260-TUNE,336024	L/166154	BFB	1	7	-bfb/all	1/26/23	08:37	tkg	
1/a01icv-rr.d	8260-ICV,336828	L/166155	ICV	1	<2	-a8260_a_c/all	1/26/23	09:06	tkg	

had to remake ICV on 1·26·23 due to mix issue and low recovery in originae ICV

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days. ✓

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012423cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 08:21 01/31/2023

Reviewed By/Date: TKG 1·31·23

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INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv2a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Lot:
Tune std: ____________

Method:
Surr. lot: 336023:5
Cal. std: ____________

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,336024	L/166154	BFB	1	7	-bfb/all	1/27/23	10:37	tkg	
1/a01ccv.d	8260-CCV,336607:	L/166154	CCALIB_7	1	7	-a8260_a_c/all	1/27/23	11:06	tkg	
1/a02lcs.d	3289829,336609:5	L/166289	LCS	1	7	-a8260_a_c/all	1/27/23	11:35	tkg	
1/a03.D	blank	L/	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	12:04	tkg	
1/a04mb.d	3289828	L/166289	BLANK	1	7	-a8260_a_c/all	1/27/23	12:33	tkg	
1/a05.d	50335726006	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	13:02	tkg	
1/a06.d	50336153002	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	13:31	tkg	
1/a07.d	50336153003	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	14:00	tkg	
1/a08.d	50336153004	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	14:29	tkg	
1/a09.d	50336153005	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	14:58	tkg	
1/a10.d	50336153006	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	15:28	tkg	
1/a11.d	50336153007	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	15:57	tkg	
1/a12.d	50335800019	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	16:26	tkg	
1/a13.d	50335800005	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	16:55	tkg	
1/a14.d	50335800006	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	17:24	tkg	
1/a15.d	50335800007	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	17:54	tkg	
1/a16.d	50335800016	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	18:23	tkg	
1/a17.d	50335800017	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	18:52	tkg	
1/a18.d	50335800018	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	19:21	tkg	
1/a19.d	50336153001	L/166289	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	19:50	tkg	
1/a20.d	3289830,336609:5	L/166289	MS	1	<2	-a8260_a_c/all	1/27/23	20:20	tkg	
1/a21.d	3289831,336609:5	L/166289	MSD	1	<2	-a8260_a_c/all	1/27/23	20:49	tkg	
1/a22.D	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	21:18	tkg	
1/a23.D	rinse	L/	SAMPLE	1	<2	-a8260_a_c/all	1/27/23	21:47	tkg	
1/a24.d	50335696001	L/	SAMPLE	1.1	<2	-a8260_a_c/all	1/27/23	22:16	tkg	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mv2a.i\a012723.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 08:05 01/30/2023

Reviewed By/Date: TKG 1.30.23

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