

December 28, 2021

Mr. Sadique Ahmed
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233
Email: sadique.ahmed@dec.ny.gov

**RE: Limited Soil Investigation Report
Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372
Block 1456, Lots 35 & 41
Brownfield Cleanup Program Site No. C241212
VERTEX Project Number: 48122**

Dear Mr. Ahmed:

Vertex Engineering, PC (VERTEX) is pleased to submit this Limited Soil Investigation Report for the Rockfarmer 37th Avenue property located at 82-13 37th Avenue in Jackson Heights, Queens County, New York (the Site). A Site Location Map is provided as **Figure 1**. The Volunteers (37th Owner LLC; Horizon 37th Ave, LLC; and RFC Ketcham 37th Ave, LLC) are participating in the New York State Brownfield Cleanup Program (BCP) pursuant to a Brownfield Cleanup Agreement (BCA) executed on July 25, 2018. The site is identified with Site No. C241212.

1.0 SITE DESCRIPTION

The Site consists of two contiguous parcels identified as Block 1456, Lots 35 and 41. The approximate site area is 20,000 square feet (0.46 acres), which is divided equally between the two lots.

The Site is improved with an approximately 108,000-square foot (above-grade), nine-story commercial office building, with ground-floor retail (Rite Aid, nail salon, and vacant space) and a two-level parking garage. The Site building is improved with a basement, which is occupied by office space, utilities, and storage space. The Site building is serviced by municipal water (New York City Department of Environmental Protection (NYCDEP)), municipal sanitary and storm sewer (NYCDEP), natural gas (Consolidated Edison), and electric (Consolidated Edison). The building footprint covers the entire Site, and is surrounded to the south, east, and west by public sidewalks and roadways and to the north are residential structures.

2.0 BACKGROUND

On June 11, 2021, VERTEX submitted Progress Report No. 21, which summarized the sub-slab depressurization system (SSDS) installation activities at the Site and extraction point soil screening results. Based on the results of the soil screening activities conducted during installation, two soil samples (VTX-113 and VTX-114) were collected in the southeastern portion of the site building basement storage room (within storage space demised to Rite Aid) and analyzed the samples for volatile organic compounds (VOCs). Soil analytical results identified detections of tetrachloroethene (PCE) at, 19 milligrams per kilogram (mg/kg) and 16 mg/kg, which are well below the NYSDEC Restricted Use Soil Cleanup Objective for Commercial Use (RUSCO-C) of 150 mg/kg; however, the concentrations exceeded the NYSDEC Restricted Use Soil Cleanup Objective for the Protection of Groundwater (RUSCO-GW) of 1.3 mg/kg. The soil sample locations are depicted on **Figure 2**.

In response to Progress Report No. 21, the NYSDEC issued a letter dated June 16, 2021, which requested the evaluation of soil and groundwater remedial actions at the Site. VERTEX submitted a response letter on July 14, 2021, which provided justification that the proposed SSDS would effectively remediate the isolated, low PCE concentrations identified in shallow, porous soil. In addition, the letter proposed the installation of six additional soil borings for the collection of soil samples within the subject tenant storage space located in the southeastern portion of the Site building.

On September 2, 2021, the NYSDEC issued a letter approving the six soil borings proposed by VERTEX, along with three additional locations (proximity to VTX-113, proximity to VTX-114, and one between those two location). In accordance with the requirements of the September NYSDEC *On-Site Soil Investigation* letter, VERTEX submitted a Limited Soil Investigation Work Plan on September 28, 2021. The work plan was approved by the NYSDEC on October 1, 2021.

3.0 LIMITED SOIL INVESTIGATION ACTIVITIES

The objective of the Limited Soil Investigation was to further characterize soil conditions and assess whether a chlorinated VOC (CVOC) source area was present at the Site. Investigative work was performed in full compliance with applicable health and safety laws and regulations, including Site and Occupational Safety & Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. A site-specific Health and Safety Plan (HASP) was prepared to guide the conduct of the work in the event that petroleum hydrocarbons and/or hazardous substances were encountered during the performance of the field activities.

Equipment was operated in accordance with the manufacturer's specifications, including calibration of all field instruments, which was performed prior to the initiation of field work and on a schedule indicated by the manufacturer.

3.1 Significant Events Influencing the Investigation

There were no significant events, observations, or seasonal variation that influenced the analytical results for this investigation. It should be noted that the photoionization detector (PID) was not operating properly on the first day of investigation activities. VERTEX attempted to calibrate and troubleshoot the equipment; however, it was unable to be repaired or replaced on the first day of screening activities. The equipment was replaced for the second day of soil evaluation.

During the October 2021 investigation, drilling in the basement of the Site building required the use of limited-access direct-push equipment (GeoProbe® 420M) due to the low ceiling clearance heights and basement access restrictions. The ceiling height in the Rite Aid basement storage room drilling locations was approximately 11 feet. As a result of having to utilize a limited-access rig for the drilling, the smaller, lower powered and lighter drilling equipment hit refusal and was unable to advance any of the soil borings to the depth of the groundwater table below the footprint of the Site building.

As noted in Section 3.3, shallow refusal (1.5 feet below basement slab) was encountered at three locations at boring B-5. The refusal consisted of concrete and the limited-access drilling equipment was unable to advance beyond the shallow depth.

3.2 Utility Clearance and Geophysical Evaluation

As part of the subsurface investigation, VERTEX's drilling subcontractor contacted the New York one call system prior to initiating the drilling activities. VERTEX also retained the services of a geophysics subcontractor to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic evaluation to mark-out subsurface utilities, evaluate drains and subsurface piping, and "clear" any proposed soil boring locations prior to drilling.

A geophysical report was not prepared to document underground utilities; however, VERTEX was on-site during the investigation to confirm the findings and cleared drilling locations.

3.3 Soil Investigation (October 2021)

Under the oversight of VERTEX, P.A.L. Environmental Services, Inc. (PAL) installed a total of nine soil borings (B-1 through B-9) in the basement of the Site building utilizing limited-access hydraulic direct-push drilling equipment (i.e., Geoprobe®). The soil boring locations are depicted on **Figure 3** and were installed in accordance with the NYSDEC-approved Limited Soil Investigation Work Plan. The soil borings were installed on October 28 and 29, 2021.

The following table provides a summary of the soil borings installed during the limited soil investigation activities.

SOIL BORING SUMMARY					
Boring ID	Latitude ⁽¹⁾	Longitude ⁽¹⁾	Refusal Depth (Feet bbs)	Completion Depth (Feet bgs) ⁽²⁾	Groundwater Depth (Feet bgs) ⁽²⁾
B-1	40.750079	73.8836408	14.0	25.0	Not Encountered
B-2	40.7500828	73.8835521	15.0	26.0	Not Encountered
B-3	40.7500708	73.8835505	21	32	Not Encountered
B-4	40.7500448	73.8835463	13	24	Not Encountered
B-5	40.7500221	73.8836331	1.5	12.5	Not Encountered
B-6	40.7500107	73.8835772	12	23	Not Encountered
B-7	40.7499803	73.8835413	14	25	Not Encountered
B-8	40.7499715	73.8835922	12	23	Not Encountered
B-9	40.7499531	73.8836197	15	26	Not Encountered

feet bbs = Feet below basement slab

feet bgs = Feet below ground surface

(1) World Geodetic System (WGS) 1984 geographic coordinate system (datum)

(2) Depths are approximate. Depth below ground surface for soil borings advanced below the footprint of the building is calculated based on a basement finished floor depth of approximately 11.0 feet bgs.

3.4 Approved Activity Modifications

There were no approved activity modifications during the November 2021 Limited Soil Investigation. The investigation activities were performed in accordance with the NYSDEC-approved Limited Soil Investigation Work Plan.

3.5 Community Air Monitoring Plan

During the Limited Soil Investigation in the Site building basement, a Community Air Monitoring Plan (CAMP) was implemented. All individuals not directly involved with the work were absent from the room in which the investigation activities are being conducted. Continuous monitoring locations for VOCs and particulates were established to monitor potentially exposed individuals and adjacent occupied rooms. If total VOC concentrations opposite walls of occupied rooms or next to intake vents exceeded 1 part per million (ppm), monitoring occurred within the occupied room. Background readings in the occupied rooms were collected prior to commencement of the investigation activities. If total particulate concentrations opposite the walls of the occupied rooms or next to intake vents exceeded 150 micrograms per cubic meter (mcg/m³), work

activities were suspended until controls were implemented and were successful in reducing the total particulate concentration to 150 mcg/m³ or less at the monitoring point.

During the completion of the limited soil investigation activities, VOC concentrations within the work area (Rite Aid basement storage room) ranged from 0.0 to 0.5 ppm. VOC concentrations collected in the adjoining hallway and adjoining vacant tenant spaces ranged from 0.0 to 0.5 ppm. Total particulate concentrations within the work area ranged from 0.26 to 2.73 mcg/m³, and particulate concentration in the hallway and adjoining vacant tenant spaces ranged from 0.07 to 1.09 mcg/m³.

Based on the CAMP readings collected during the limited soil investigation activities, no air monitoring concerns were identified.

3.6 Soil Sampling

Where possible, soil samples were collected continuously and screened in the field for the presence of total volatile organic vapors using a photoionization detector (PID) calibrated to 100 parts per million (ppm) by volume of isobutylene. The observed soil types, field screening readings, and other notable observations were recorded on soil boring logs, included as **Appendix A**. Visual and olfactory observations were also utilized to assess the soil for evidence of suspected contaminants.

All sampling was conducted in accordance with NYSDEC *DER-10 Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010, and Sampling Guidelines and Protocols, dated March 1991. Disposable nitrile gloves were worn during the soil screening process and sample collection.

Soil sampling was conducted at the NYSDEC-requested intervals or at the highest PID reading at each of the soil boring locations. In accordance with the NYSDEC-approved Limited Soil Investigation Work Plan, soil sampling was conducted at two-foot intervals at borings B-3, B-6, and B-8, to determine the vertical extent of PCE impacts at these areas. At all other soil boring locations, soil samples were collected from the location of the strongest evidence of suspected impacts based on PID readings, odors, or staining and the bottom of each boring. For locations where the PID was malfunctioning (B-3, B-6, B-8), samples were taken every two feet, and the shallow soil intervals were analyzed to provide vertical delineation of the previously elevated samples at VTX-113 and VTX-114.

The following table provides a summary of the soil samples collected at the Site during the Limited Soil Investigation activities.

SOIL SAMPLING SUMMARY		
Boring ID	Sample Depth (feet bbs) ⁽¹⁾	Field Observations / Sampling Rationale
B-1	3.5-4.0	PID readings ranged from 0.0 to 2.5 ppm in boring. No odors or staining observed. Sample collected at highest PID reading.
	13.5-14.0	
B-2	3.5-4.0	PID readings ranged from 1.0 to 3.7 ppm in boring. No odors or staining observed. Sample collected at highest PID reading.
	14.5-15.0	
B-3	2.0-2.5	PID readings were all 0.0 ppm; however, the PID was malfunctioning. No odors or staining observed. Sample collected for vertical delineation of previous soil sample VTX-113 (1.0-1.5 feet).
	4.0-4.5	
B-4 DUP (B-4) B-4	1.5-2.0	PID readings ranged from 0.0 to 3.5 ppm in boring. No odors or staining observed. Sample collected at highest PID reading.
	1.5-2.0	
	11.5-12.0	
B-5	0.5-1.0	Shallow boring refusal encountered at three locations at 1.0 feet below basement slab. PID readings ranged from 0.0 to 5.6 ppm. No odors or staining observed. Low recovery and sample collected from available soil at shallow interval.
B-6	2.0-2.5	PID readings were all 0.0 ppm; however, the PID was malfunctioning. No odors or staining observed. Sample collected for horizontal delineation of previous soil borings with elevated PCE detections (VTX-113 and VTX-114).
	4.0-4.5	
B-7	9.5-10.0	PID readings ranged from 0.0 to 2.4 ppm in boring. No odors or staining observed. Sample collected at highest PID reading.
	13.5-14.0	
B-8	2.0-2.5	PID readings were all 0.0 ppm; however, the PID was malfunctioning. No odors or staining observed. Sample collected for vertical delineation of previous soil sample VTX-114 (1.0-1.5 feet).
	4.0-4.5	
B-9	1.5-2.0	PID readings ranged from 0.0 to 7.1 ppm in boring. No odors or staining observed. Sample collected from highest PID reading.
	14.5-15.0	

feet bbs = Feet below basement slab

ppm = parts per million

Soil samples were collected in laboratory-provided containers and submitted under proper chain-of-custody procedures to Alpha Analytical, Inc. (Alpha) in Westborough, Massachusetts (New York Environmental Laboratory Approval Program (ELAP) No. 11627) for VOC analysis via United States Environmental Protection Agency (USEPA) Method 8260.

All soil samples were grab samples; no composite soil samples were collected.

3.7 Soil Analytical Results

A total of 18 soil samples were analyzed for VOCs during the October 2021 limited soil investigation. The results of the soil sample analyses were compared to the NYSDEC Restricted Use Soil Cleanup Objective (SCOs) for Industrial Use (RUSCO-I), for Commercial Use (RUSCO-C), for Restricted Residential Use (RUSCO-RR), Residential Use (RUSCO-R), and for Unrestricted Use (UUSCO). Review of the soil analytical results identified the following:

CONSTITUENTS IN SOIL SAMPLES IN EXCESS OF SCOs						
Sample Location	Sample Depth ⁽¹⁾	Constituents >RUSCO-I	Constituents >RUSCO-C	Constituents >RUSCO-RR	Constituents >RUSCO-R	Constituents >UUSCO
B-1	3.5-4.0	None	None	None	None	None
B-1	13.5-14.0	None	None	None	None	None
B-2	3.5-4.0	None	None	None	None	None
B-2	14.5-15.0	None	None	None	None	Acetone
B-3	2.0-2.5	None	None	None	None	None
B-3	4.0-4.5	None	None	None	None	None
B-4	1.5-2.0	None	None	None	None	None
DUP (B-4)	1.5-2.0	None	None	None	None	None
B-4	11.5-12.0	None	None	None	None	None
B-5	0.5-1.0	None	None	None	None	Acetone
B-6	2.0-2.5	None	None	None	None	None
B-6	4.0-4.5	None	None	None	None	None
B-7	9.5-10.0	None	None	None	None	None
B-7	13.5-14.0	None	None	None	None	None
B-8	2.0-2.5	None	None	None	None	None
B-8	4.0-4.5	None	None	None	None	None
B-9	1.5-2.0	None	None	None	None	None
B-9	14.5-15.0	None	None	None	None	None

(1) Feet below basement slab

Table 1 summarizes the October 2021 soil sampling results. A copy of the analytical laboratory reports is included in **Appendix B**. The VOC soil results for the compounds of concern at the Site are depicted on **Figure 3**. All samples were collected from locations and depth intervals approved by NYSDEC; no PCE or other contaminants of concern were detected in any of the samples collected.

3.8 Data Usability Summary Report

A thorough evaluation of the laboratory data was completed, and a Data Usability Summary Report (DUSR) was prepared. The primary objective for the evaluation of analytical data was to determine whether the data, as presented, meets the site-specific criteria for data quality and use. The DUSR was prepared by a qualified, independent data validation expert, in accordance with *Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports* included in NYSDEC DER-10: *Technical Guidance for Site Investigation and Remediation*.

The data usability evaluation included a review of the soil samples collected during the limited soil investigation activities. A copy of the DUSR is included in **Appendix C**.

3.9 Site Restoration

Each soil boring location was backfilled with soil collected in the core and a minimum of four inches of concrete was utilized to seal the boring at the top of the slab.

4.0 LIMITED SOIL INVESTIGATION FINDINGS

Nine soil borings were advanced in the southeast portion of the Site building to further evaluate soil conditions and assess whether a CVOC source area was present at the Site. No odors or staining were noted in any of the soil boring locations. PID readings ranged from 0.0 to 7.1 ppm.

A total of 18 soil samples were analyzed for VOCs during the October 2021 limited soil investigation activities. Samples were collected at depths ranging from 0.5 to 14.5 feet below the basement slab. None of the soil samples contained CVOC concentrations exceeding the NYSDEC SCOs. A total of two sample locations (B-2 and B-5) contained acetone exceeding the UUSCO only. Sample B-2, collected at 14.5-15.0 feet below the basement slab, and sample B-5, collected at 0.5-1.0 feet below the basement slab, both contained an acetone concentration of 0.11 mg/kg, which exceeds the UUSCO of 0.05 mg/kg. Acetone is a typical laboratory contaminant, and the low-level detections are expected to be the result of laboratory contamination.

5.0 CONCLUSION

Based on the findings of the Limited Soil Investigation, no CVOC source area was identified at the Site. Horizontal and vertical sampling to delineate previous soil samples VTX-113 and VTX-114 with elevated PCE detections identified no exceedances to the SCOs. The previous soil sample locations were from areas immediately below the horizontal extraction points for the active SSDS; therefore, it is expected that any previously detected residual impacts would be remediated via the continued operation of the SSDS since July 2021, as the system will act as a soil vapor extraction system to strip the volatile organic compound(s) from the porous soils. Based on the above information, no further investigation is warranted.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this Limited Soil Investigation Report.

Sincerely,

Vertex Engineering, PC



Richard J. Tobia, P.E.
Technical Director

Attachments

Figure 1 – Site Location Map

Figure 2 – Soil Sample Location Map

Figure 3 – VOC Soil Results – October 2021 Limited Soil Investigation

Table 1 – Soil Analytical Results – October 2021 Limited Soil Investigation

Appendix A – Soil Boring Logs

Appendix B – Laboratory Reports

Appendix B – Data Usability Summary Reports

Cc: Kristin Kulow, Project Manager (electronic copy only)

New York State Department of Health

28 Hill Street, Suite 201

Oneonta, New York 13820

Email: kristin.kulow@health.ny.gov

Scarlett McLaughlin (electronic copy only)

New York State Department of Health

Email: scarlett.mclaughlin@health.ny.gov

Heather Leibowitz, Esq. (correspondence only)

New York State Department of Environmental Conservation

Office of General Counsel

One Hunters Point Plaza

47-40 21st Street

Long Island City, New York 11101

Email: heather.leibowitz@dec.ny.gov

Steve Boudourakis

37th Owner LLC; Horizon 37th Ave, LLC; and RFC Ketcham 37th Ave, LLC

42-15 235th Street

Douglaston, New York 11363

Email: steve@douglastonmgmt.com

Scott Furman

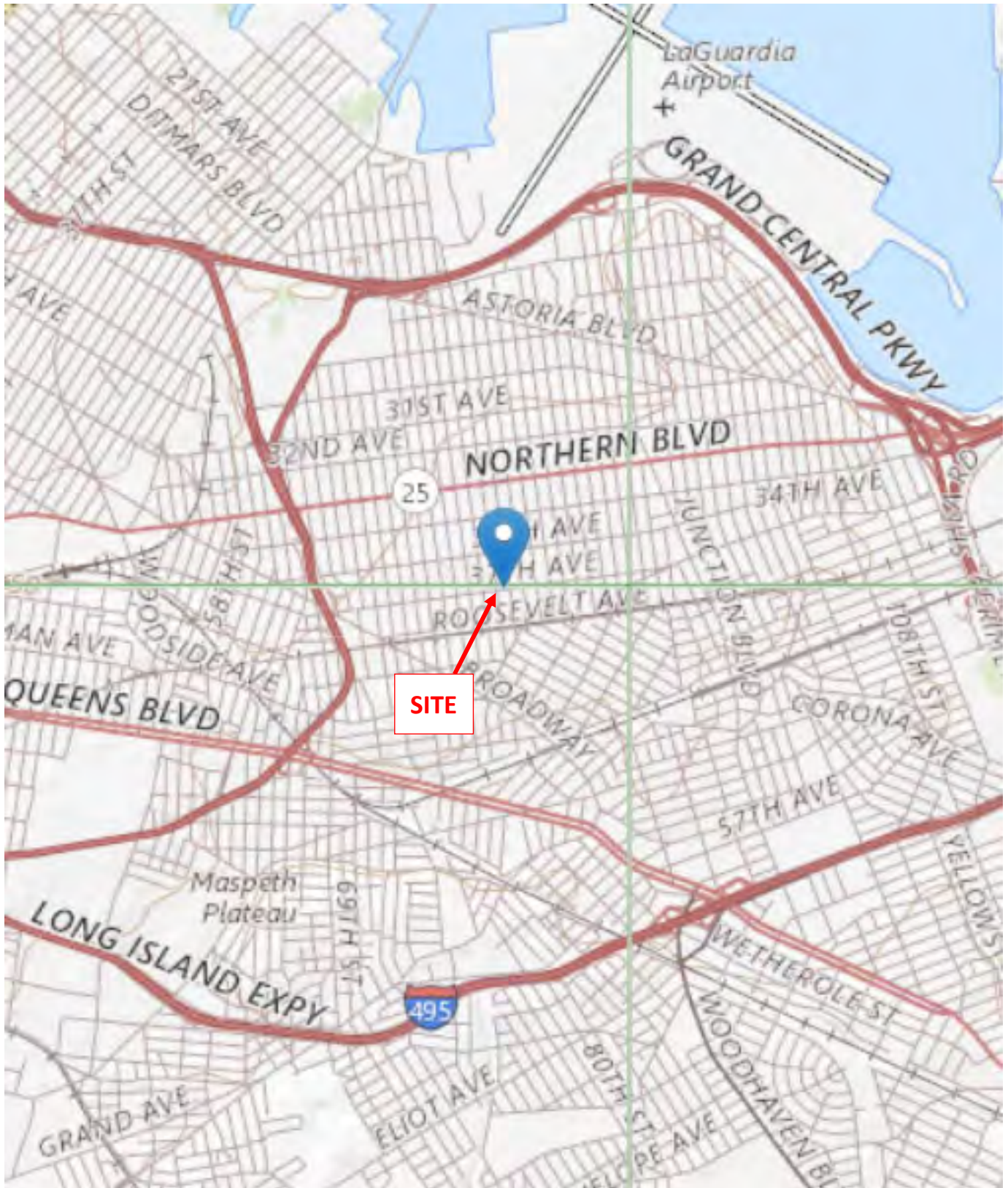
Sive Paget & Riesel, P.C.

560 Lexington Avenue, 15th Floor

New York, New York 10022

Email: sfurman@sprlaw.com

FIGURES



Source: USGS, 2013
Brooklyn, NY Quadrangle
Contour Interval: 50 feet

SITE LOCATION MAP

82-13 37th Avenue
Jackson Heights, Queens County, New York

VERTEX Project No. 48122

VERTEX ENGINEERING, PC
147 West 39th Street, 19th Floor
New York, New York 10001

FIGURE NO. 1

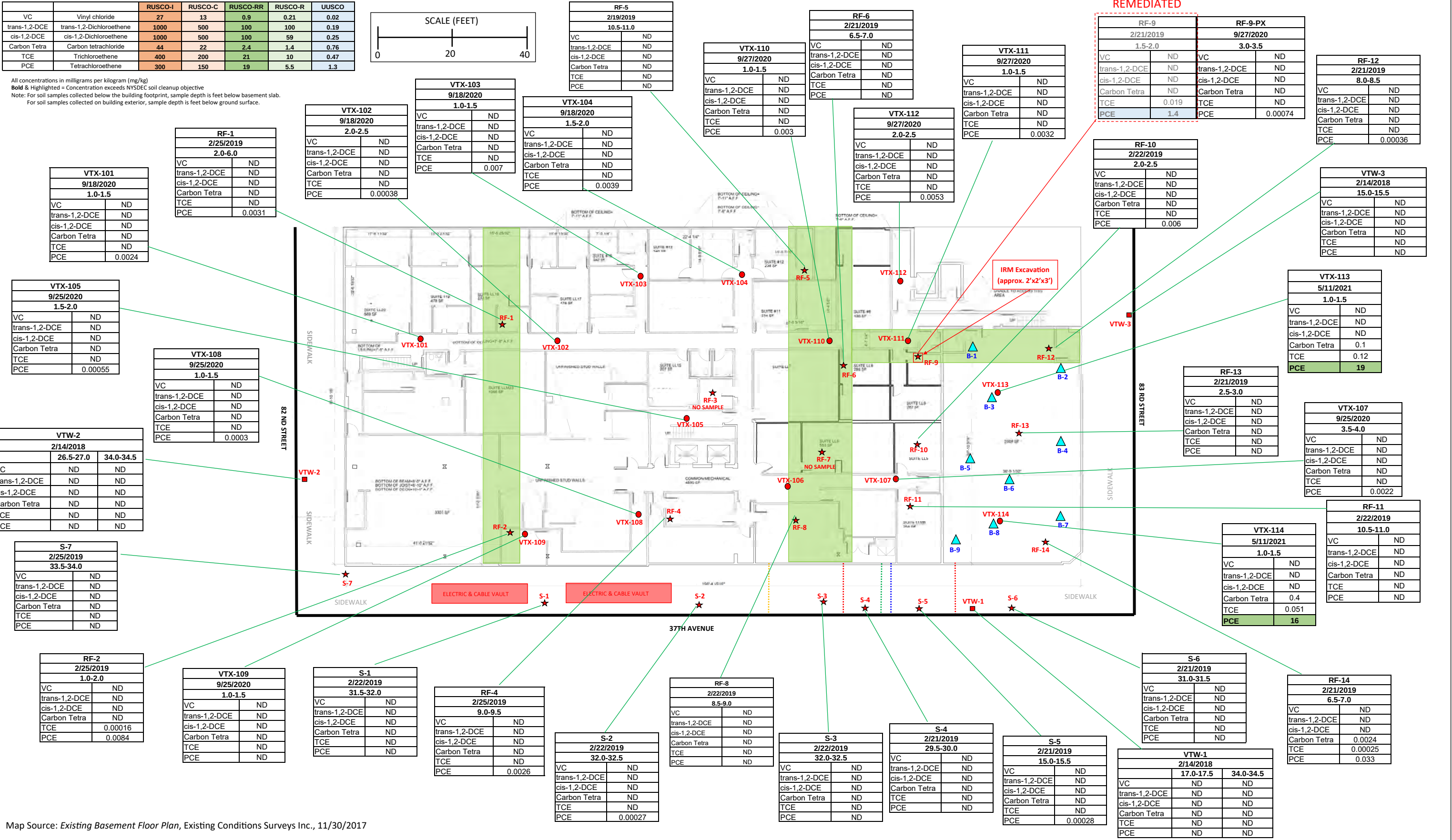
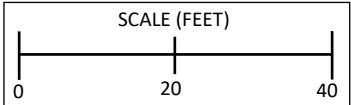
		RUSCO-I	RUSCO-C	RUSCO-RR	RUSCO-R	UUSCO
VC	Vinyl chloride	27	13	0.9	0.21	0.02
trans-1,2-DCE	trans-1,2-Dichloroethene	1000	500	100	100	0.19
cis-1,2-DCE	cis-1,2-Dichloroethene	1000	500	100	59	0.25
Carbon Tetra	Carbon tetrachloride	44	22	2.4	1.4	0.76
TCE	Trichloroethene	400	200	21	10	0.47
PCE	Tetrachloroethene	300	150	19	5.5	1.3

All concentrations in milligrams per kilogram (mg/kg)

Bold & Highlighted = Concentration exceeds NYSDEC soil cleanup objective

Note: For soil samples collected below the building footprint, sample depth is feet below basement slab.

For soil samples collected on building exterior, sample depth is feet below ground surface.



Map Source: Existing Basement Floor Plan, Existing Conditions Surveys Inc., 11/30/2017



- SOIL SAMPLE (SEPTEMBER 2020 & MAY 2021)
- SOIL SAMPLE (MARCH 2018)
- ★ SOIL SAMPLE (FEBRUARY 2019)
- S-1 SOIL SAMPLE ID
- ▲ SOIL SAMPLE (OCTOBER 2021)
- FORMER DRYCLEANER LOCATION

SOIL SAMPLE LOCATION MAP

82-13 37th AVENUE
JACKSON HEIGHTS, QUEENS COUNTY, NEW YORK

VERTEX ENGINEERING, PC
147 WEST 35TH STREET, 19TH FLOOR
NEW YORK, NEW YORK 10001

FIGURE NO. 2

VERTEX Project No. 48122

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS - OCTOBER 2021 LIMITED SOIL INVESTIGATION
82-13 37th Avenue
Jackson Heights, Queens County, New York

SAMPLE ID:	RUSCO-I	RUSCO-C	RUSCO-R	RUSCO-RR	UUSCO	B-1 (3.5-4)				B-1 (13.5-14)				B-2 (3.5-4)				B-2 (14.5-15)				B-3 (2-2.5)				B-3 (4-4.5)					
LAB ID:						L2159682-01				L2159682-02				L2159682-03				L2159682-04				L2159098-01				L2159098-02					
COLLECTION DATE:						10/29/2021				10/29/2021				10/29/2021				10/29/2021				10/28/2021				10/28/2021					
SAMPLE DEPTH:						3.5-4.0				13.5-14.0				3.5-4.0				14.5-15.0				2.0-2.5				4.0-4.5					
SOIL BORING						B-1				B-1				B-2				B-2				B-3				B-3					
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL		
VOLATILE ORGANIC COMPOUNDS (VOCs) - mg/kg																															
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.001	0.00027	ND		0.0014	0.00036	ND		0.001	0.00026	ND		0.00075	0.0002	ND		0.00081	0.00021	ND		0.00087	0.00023		
1,1,1-Trichloroethane	1000	500	100	100	0.68	ND		0.001	0.00034	ND		0.0014	0.00045	ND		0.001	0.00033	ND		0.00075	0.00025	ND		0.00081	0.00027	ND		0.00087	0.00029		
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.001	0.00033	ND		0.0014	0.00045	ND		0.001	0.00033	ND		0.00075	0.00025	ND		0.00081	0.00027	ND		0.00087	0.00029		
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	ND		0.002	0.00054	ND		0.0027	0.00072	ND		0.002	0.00054	ND		0.0015	0.0004	ND		0.0016	0.00043	ND		0.0017	0.00046		
1,1-Dichloroethane	480	240	19	26	0.27	ND		0.002	0.00029	ND		0.0027	0.00039	ND		0.002	0.00029	ND		0.0015	0.00022	ND		0.0016	0.00024	ND		0.0017	0.00025		
1,1-Dichloroethene	1000	500	100	100	0.33	ND		0.002	0.00048	ND		0.0027	0.00064	ND		0.002	0.00048	ND		0.0015	0.00036	ND		0.0016	0.00039	ND		0.0017	0.00041		
1,1-Dichloropropene	NS	NS	NS	NS	NS	ND		0.001	0.00032	ND		0.0014	0.00043	ND		0.001	0.00032	ND		0.00075	0.00024	ND		0.00081	0.00026	ND		0.00087	0.00028		
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.004	0.00065	ND		0.0054	0.00087	ND		0.004	0.00064	ND		0.003	0.00048	ND		0.0032	0.00052	ND		0.0035	0.00056		
1,2,3-Trichloropropane	NS	NS	NS	NS	NS	ND		0.004	0.00026	ND		0.0054	0.00034	ND		0.004	0.00025	ND		0.003	0.00019	ND		0.0032	0.00021	ND		0.0035	0.00022		
1,2,4,5-Tetramethylbenzene	NS	NS	NS	NS	NS	ND		0.004	0.00038	ND		0.0054	0.00052	ND		0.004	0.00038	ND		0.003	0.00028	ND		0.0032	0.00031	ND		0.0035	0.00033		
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.004	0.00055	ND		0.0054	0.00073	ND		0.004	0.00054	ND		0.003	0.0004	ND		0.0032	0.00044	ND		0.0035	0.00047		
1,2,4-Trimethylbenzene	380	190	47	52	3.6	ND		0.004	0.00067	ND		0.0054	0.0009	ND		0.004	0.00067	ND		0.003	0.0005	ND		0.0032	0.00054	ND		0.0035	0.00058		
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	NS	ND		0.006	0.002	ND		0.0081	0.0027	ND		0.006	0.002	ND		0.0045	0.0015	ND		0.0049	0.0016	ND		0.0052	0.0017		
1,2-Dibromoethane	NS	NS	NS	NS	NS	ND		0.002	0.00056	ND		0.0027	0.00075	ND		0.002	0.00056	ND		0.0015	0.00042	ND		0.0016	0.00045	ND		0.0017	0.00048		
1,2-Dichlorobenzene	1000	500	100	100	1.1	ND		0.004	0.00029	ND		0.0054	0.00039	ND		0.004	0.00029	ND		0.003	0.00021	0.00023	J	0.0032	0.00023	ND		0.0035	0.00025		
1,2-Dichloroethane	60	30	2.3	3.1	0.02	ND		0.002	0.00052	ND		0.0027	0.00069	ND		0.002	0.00052	ND		0.0015	0.00038	ND		0.0016	0.00042	ND		0.0017	0.00045		
1,2-Dichloroethene, Total	NS	NS	NS	NS	NS	ND		0.002	0.00028	ND		0.0027	0.00037	ND		0.002	0.00027	ND		0.0015	0.0002	ND		0.0016	0.00022	ND		0.0017	0.00024		
1,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.002	0.00025	ND		0.0027	0.00034	ND		0.002	0.00025	ND		0.0015	0.00019	ND		0.0016	0.0002	ND		0.0017	0.00022		
1,3,5-Trimethylbenzene	380	190	47	52	8.4	ND		0.004	0.00039	ND		0.0054	0.00052	ND		0.004	0.00039	ND		0.003	0.00029	ND		0.0032	0.00031	ND		0.0035	0.00034		
1,3-Dichlorobenzene	560	280	17	49	2.4	ND		0.004	0.0003	ND		0.0054	0.0004	ND		0.004	0.0003	ND		0.003	0.00022	ND		0.0032	0.00024	ND		0.0035	0.00026		
1,3-Dichloropropane	NS	NS	NS	NS	NS	ND		0.004	0.00034	ND		0.0054	0.00045	ND		0.004	0.00033	ND		0.003	0.00025	ND		0.0032	0.00027	ND		0.0035	0.00029		
1,3-Dichloropropene, Total	NS	NS	NS	NS	NS	ND		0.001	0.00032	ND		0.0014	0.00043	ND		0.001	0.00032	ND		0.00075	0.00024	ND		0.00081	0.00026	ND		0.00087	0.00027		
1,4-Dichlorobenzene	250	130	9.8	13	1.8	ND		0.004	0.00034	ND		0.0054	0.00046	ND		0.004	0.00034	ND		0.003	0.00026	ND		0.0032	0.00028	ND		0.0035	0.0003		
1,4-Dioxane	250	130	9.8	13	0.1	ND		0.16	0.071	ND		0.22	0.095	ND		0.16	0.07	ND		0.12	0.052	ND		0.13	0.057	ND		0.14	0.061		
2,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.004	0.00041	ND		0.0054	0.00054	ND		0.004	0.0004	ND		0.003	0.0003	ND		0.0032	0.00033	ND		0.0035	0.00035		
2-Butanone	1000	500	100	100	0.12	ND		0.02	0.0045	ND		0.027	0.006	ND		0.02	0.0044	ND		0.015	0.0033	ND		0.016	0.0036	ND		0.017	0.0038		
2-Hexanone	NS	NS	NS	NS	NS	ND		0.02	0.0024	ND		0.027	0.0032	ND		0.02	0.0024	ND		0.015	0.0018	ND		0.016	0.0019	ND		0.017	0.002		
4-Methyl-2-pentanone	NS	NS	NS	NS	NS	ND		0.02	0.0026	ND		0.027	0.0034	ND		0.02	0.0026	ND		0.015	0.0019	ND		0.016	0.0021	ND		0.017	0.0022		
Acetone	1000	500	100	100	0.05	ND		0.02	0.0097	ND		0.027	0.013	ND		0.02	0.0096	0.11		0.015	0.0072			0.016	0.0078	0.0085	J	0.017	0.0084		
Acrylonitrile	NS	NS	NS	NS	NS	ND		0.0081	0.0023	ND		0.011	0.0031	ND		0.008	0.0023	ND		0.006	0.0017	ND		0.0065	0.0019	ND		0.007	0.002		
Benzene	89	44	2.9	4.8	0.06	ND		0.001	0.00033	ND		0.0014	0.00045	ND		0.001	0.00033	ND		0.00075	0.00025	ND		0.00081	0.00027	ND		0.00087	0.00029		
Bromobenzene	NS	NS	NS	NS	NS	ND		0.004	0.00029	ND		0.0054	0.00039	ND		0.004	0.00029	ND		0.003	0.00022	ND		0.0032	0.00024	ND		0.0035	0.00025		
Bromochloromethane	NS	NS	NS	NS	NS	ND		0.004	0.00041	ND		0.0054	0.00055	ND		0.004	0.00041	ND		0.003	0.0003	ND		0.0032	0.00033	ND		0.0035	0.00036		
Bromodichloromethane	NS	NS	NS	NS	NS	ND		0.001	0.00022	ND		0.0014	0.00029	ND		0.001	0.00022	ND		0.00075	0.00016	ND		0.00081	0.00018	ND		0.00087	0.00019		
Bromoform	NS	NS	NS	NS	NS	ND		0.0081	0.0005	ND		0.011	0.00066	ND		0.008	0.00049	ND		0.006	0.00037	ND		0.0065	0.0004	ND		0.007	0.00043		
Bromomethane	NS	NS	NS	NS	NS	ND		0.004	0.0012	ND		0.0054	0.0016	ND		0.004	0.0012	ND		0.003	0.00087	ND		0.0032	0.00095	ND		0.0035	0.001		
Carbon disulfide	NS	NS	NS	NS	NS	ND		0.02	0.0092	ND		0.027	0.012	ND		0.02	0.0091	ND		0.015	0.0068	ND		0.016	0.0074	ND		0.017	0.0079		
Carbon tetrachloride	44	22	1.4	2.4	0.76	ND		0.002	0.00046	ND		0.0027	0.00062	ND		0.002	0.00046	ND		0.0015	0.00034	ND		0.0016	0.00037	ND		0.0017	0.0004		
Chlorobenzene	1000	500	100	100	1.1	ND		0.001	0.00026	ND		0.0014	0.00034	ND		0.001	0.00025	ND		0.00075	0.00019	ND		0.00081	0.0002						

TABLE 1
SOIL ANALYTICAL RESULTS - OCTOBER 2021 LIMITED SOIL INVESTIGATION
82-13 37th Avenue
Jackson Heights, Queens County, New York

SAMPLE ID:	RUSCO-I	RUSCO-C	RUSCO-R	RUSCO-RR	UUSCO	B-4 (1.5-2)				DUP				B-4 (11.5-12)				B-5 (0.5-1)				B-6 (2-2.5)				B-6 (4-4.5)					
LAB ID:						L2159682-05				L2159682-12				L2159682-06				L2159682-07				L2159098-11				L2159098-12					
COLLECTION DATE:						10/29/2021				10/29/2021				10/29/2021				10/29/2021				10/28/2021				10/28/2021					
SAMPLE DEPTH:						1.5-2.0				1.5-2.0				11.5-12.0				0.5-1.0				2.0-2.5				4.0-4.5					
SOIL BORING						B-4				B-4				B-4				B-5				B-6				B-6					
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL		
VOLATILE ORGANIC COMPOUNDS (VOCs) - mg/kg																															
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00095	0.00025	ND		0.0012	0.00033	ND		0.00064	0.00017	ND		0.0006	0.00016	ND		0.001	0.00028	ND		0.00048	0.00013		
1,1,1-Trichloroethane	1000	500	100	100	0.68	ND		0.00095	0.00032	ND		0.0012	0.00041	ND		0.00064	0.00021	ND		0.0006	0.0002	ND		0.001	0.00035	ND		0.00048	0.00016		
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00095	0.00032	ND		0.0012	0.00041	ND		0.00064	0.00021	ND		0.0006	0.0002	ND		0.001	0.00035	ND		0.00048	0.00016		
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	ND		0.0019	0.00051	ND		0.0025	0.00066	ND		0.0013	0.00034	ND		0.0012	0.00032	ND		0.0021	0.00056	ND		0.00097	0.00026		
1,1-Dichloroethane	480	240	19	26	0.27	ND		0.0019	0.00028	ND		0.0025	0.00036	ND		0.0013	0.00018	ND		0.0012	0.00017	ND		0.0021	0.0003	ND		0.00097	0.00014		
1,1-Dichloroethene	1000	500	100	100	0.33	ND		0.0019	0.00045	ND		0.0025	0.00059	ND		0.0013	0.0003	ND		0.0012	0.00029	ND		0.0021	0.0005	ND		0.00097	0.00023		
1,1-Dichloropropene	NS	NS	NS	NS	NS	ND		0.00095	0.0003	ND		0.0012	0.00039	ND		0.00064	0.0002	ND		0.0006	0.00019	ND		0.001	0.00033	ND		0.00048	0.00015		
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0038	0.00061	ND		0.005	0.0008	ND		0.0025	0.00041	ND		0.0024	0.00039	ND		0.0042	0.00068	ND		0.0019	0.00031		
1,2,3-Trichloropropane	NS	NS	NS	NS	NS	ND		0.0038	0.00024	ND		0.005	0.00031	ND		0.0025	0.00016	ND		0.0024	0.00015	ND		0.0042	0.00027	ND		0.0019	0.00012		
1,2,4,5-Tetramethylbenzene	NS	NS	NS	NS	NS	ND		0.0038	0.00036	ND		0.005	0.00047	ND		0.0025	0.00024	ND		0.0024	0.00023	ND		0.0042	0.0004	ND		0.0019	0.00018		
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0038	0.00052	ND		0.005	0.00067	ND		0.0025	0.00034	ND		0.0024	0.00033	ND		0.0042	0.00057	ND		0.0019	0.00026		
1,2,4-Trimethylbenzene	380	190	47	52	3.6	ND		0.0038	0.00064	ND		0.005	0.00083	ND		0.0025	0.00042	ND		0.0024	0.0004	ND		0.0042	0.0007	ND		0.0019	0.00032		
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	NS	ND		0.0057	0.0019	ND		0.0074	0.0025	ND		0.0038	0.0013	ND		0.0036	0.0012	ND		0.0063	0.0021	ND		0.0029	0.00097		
1,2-Dibromomethane	NS	NS	NS	NS	NS	ND		0.0019	0.00053	ND		0.0025	0.00069	ND		0.0013	0.00035	ND		0.0012	0.00034	ND		0.0021	0.00058	ND		0.00097	0.00027		
1,2-Dichlorobenzene	1000	500	100	100	1.1	ND		0.0038	0.00027	ND		0.005	0.00036	ND		0.0025	0.00018	ND		0.0024	0.00017	ND		0.0042	0.0003	ND		0.0019	0.00014		
1,2-Dichloroethane	60	30	2.3	3.1	0.02	ND		0.0019	0.00049	ND		0.0025	0.00064	ND		0.0013	0.00033	ND		0.0012	0.00031	ND		0.0021	0.00054	ND		0.00097	0.00025		
1,2-Dichloroethene, Total	NS	NS	NS	NS	NS	ND		0.0019	0.00026	ND		0.0025	0.00034	ND		0.0013	0.00017	ND		0.0012	0.00016	ND		0.0021	0.00029	ND		0.00097	0.00013		
1,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0019	0.00024	ND		0.0025	0.00031	ND		0.0013	0.00016	ND		0.0012	0.00015	ND		0.0021	0.00026	ND		0.00097	0.00012		
1,3,5-Trimethylbenzene	380	190	47	52	8.4	ND		0.0038	0.00037	ND		0.005	0.00048	ND		0.0025	0.00024	ND		0.0024	0.00023	ND		0.0042	0.0004	ND		0.0019	0.00019		
1,3-Dichlorobenzene	560	280	17	49	2.4	ND		0.0038	0.00028	ND		0.005	0.00037	ND		0.0025	0.00019	ND		0.0024	0.00018	ND		0.0042	0.00031	ND		0.0019	0.00014		
1,3-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0038	0.00032	ND		0.005	0.00041	ND		0.0025	0.00021	ND		0.0024	0.0002	ND		0.0042	0.00035	ND		0.0019	0.00016		
1,3-Dichloropropene, Total	NS	NS	NS	NS	NS	ND		0.00095	0.0003	ND		0.0012	0.00039	ND		0.00064	0.0002	ND		0.0006	0.00019	ND		0.001	0.00033	ND		0.00048	0.00015		
1,4-Dichlorobenzene	250	130	9.8	13	1.8	ND		0.0038	0.00032	ND		0.005	0.00042	ND		0.0025	0.00022	ND		0.0024	0.0002	ND		0.0042	0.00036	ND		0.0019	0.00016		
1,4-Dioxane	250	130	9.8	13	0.1	ND		0.15	0.067	ND		0.2	0.087	ND		0.1	0.044	ND		0.096	0.042	ND		0.17	0.074	ND		0.078	0.034		
2,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0038	0.00038	ND		0.005	0.0005	ND		0.0025	0.00026	ND		0.0024	0.00024	ND		0.0042	0.00042	ND		0.0019	0.0002		
2-Butanone	1000	500	100	100	0.12	ND		0.019	0.0042	ND		0.025	0.0055	ND		0.013	0.0028	ND		0.012	0.0027	ND		0.021	0.0047	ND		0.0097	0.0022		
2-Hexanone	NS	NS	NS	NS	NS	ND		0.019	0.0022	ND		0.025	0.0029	ND		0.013	0.0015	ND		0.012	0.0014	ND		0.021	0.0025	ND		0.0097	0.0011		
4-Methyl-2-pentanone	NS	NS	NS	NS	NS	ND		0.019	0.0024	ND		0.025	0.0032	ND		0.013	0.0016	ND		0.012	0.0015	ND		0.021	0.0027	ND		0.0097	0.0012		
Acetone	1000	500	100	100	0.05	ND		0.019	0.0091	ND		0.025	0.012	ND		0.013	0.0061	0.11		0.012	0.0058	ND		0.021	0.01	0.005	J	0.0097	0.0047		
Acrylonitrile	NS	NS	NS	NS	NS	ND		0.0076	0.0022	ND		0.0099	0.0028	ND		0.0051	0.0015	ND		0.0048	0.0014	ND		0.0084	0.0024	ND		0.0039	0.0011		
Benzene	89	44	2.9	4.8	0.06	ND		0.00095	0.00032	ND		0.0012	0.00041	ND		0.00064	0.00021	ND		0.0006	0.0002	ND		0.001	0.00035	ND		0.00048	0.00016		
Bromobenzene	NS	NS	NS	NS	NS	ND		0.0038	0.00028	ND		0.005	0.00036	ND		0.0025	0.00018	ND		0.0024	0.00017	ND		0.0042	0.0003	ND		0.0019	0.00014		
Bromochloromethane	NS	NS	NS	NS	NS	ND		0.0038	0.00039	ND		0.005	0.00051	ND		0.0025	0.00026	ND		0.0024	0.00025	ND		0.0042	0.00043	ND		0.0019	0.0002		
Bromodichloromethane	NS	NS	NS	NS	NS	ND		0.00095	0.00021	ND		0.0012	0.00027	ND		0.00064	0.00014	ND		0.0006	0.00013	ND		0.001	0.00023	ND		0.00048	0.0001		
Bromoform	NS	NS	NS	NS	NS	ND		0.0076	0.00047	ND		0.0099	0.00061	ND		0.0051	0.00031	ND		0.0048	0.0003	ND		0.0084	0.00052	ND		0.0039	0.00024		
Bromomethane	NS	NS	NS	NS	NS	ND		0.0038	0.0011	ND		0.005	0.0014	ND		0.0025	0.00074	ND		0.0024	0.0007	ND		0.0042	0.0012	ND		0.0019	0.00056		
Carbon disulfide	NS	NS	NS	NS	NS	ND		0.019	0.0086	ND		0.025	0.011	ND		0.013	0.0058	ND		0.012	0.0055	ND		0.021	0.0096	ND		0.0097	0.0044		
Carbon tetrachloride	44	22	1.4	2.4	0.76	ND		0.0019	0.00044	ND		0.0025	0.00057	ND		0.0013	0.00029	ND		0.0012	0.00028	ND		0.0021	0.00048	ND		0.00097	0.00022		
Chlorobenzene	1000	500	100	100	1.1	ND		0.00095	0.00024	ND		0.0012	0.00031	ND		0.00064	0.														

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82-13 37th Avenue
Jackson Heights, Queens County, New York

SAMPLE ID:	RUSCO-I	RUSCO-C	RUSCO-R	RUSCO-RR	UUSCO	B-7 (9.5-10)				B-7 (13.5-14)				B-8 (2-2.5)				B-8 (4-4.5)				B-9 (1.5-2)				B-9 (14.5-15)					
LAB ID:						L2159682-08				L2159682-09				L2159682-15				L2159682-16				L2159682-10				L2159682-11					
COLLECTION DATE:						10/29/2021				10/29/2021				10/28/2021				10/28/2021				10/29/2021				10/29/2021					
SAMPLE DEPTH:						9.5-10.0				13.5-14.0				2.0-2.5				4.0-4.5				1.5-2.0				14.5-15.0					
SOIL BORING						B-7				B-7				B-8				B-8				B-9				B-9					
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL		
VOLATILE ORGANIC COMPOUNDS (VOCs) - mg/kg																															
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00073	0.00019	ND		0.00047	0.00012	ND		0.00085	0.00022	ND		0.00049	0.00013	ND		0.00083	0.00022	ND		0.0011	0.0003		
1,1,1-Trichloroethane	1000	500	100	100	0.68	ND		0.00073	0.00024	ND		0.00047	0.00016	ND		0.00085	0.00028	ND		0.00049	0.00016	ND		0.00083	0.00028	ND		0.0011	0.00038		
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	ND		0.00073	0.00024	ND		0.00047	0.00016	ND		0.00085	0.00028	ND		0.00049	0.00016	ND		0.00083	0.00027	ND		0.0011	0.00037		
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	ND		0.0015	0.00039	ND		0.00095	0.00025	ND		0.0017	0.00046	ND		0.00098	0.00026	ND		0.0016	0.00044	ND		0.0022	0.0006		
1,1-Dichloroethane	480	240	19	26	0.27	ND		0.0015	0.00021	ND		0.00095	0.00014	ND		0.0017	0.00025	ND		0.00098	0.00014	ND		0.0016	0.00024	ND		0.0022	0.00033		
1,1-Dichloroethene	1000	500	100	100	0.33	ND		0.0015	0.00035	ND		0.00095	0.00023	ND		0.0017	0.00041	ND		0.00098	0.00023	ND		0.0016	0.00039	ND		0.0022	0.00054		
1,1-Dichloropropene	NS	NS	NS	NS	NS	ND		0.00073	0.00023	ND		0.00047	0.00015	ND		0.00085	0.00027	ND		0.00049	0.00016	ND		0.00083	0.00026	ND		0.0011	0.00036		
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0029	0.00047	ND		0.0019	0.0003	ND		0.0034	0.00055	ND		0.002	0.00032	ND		0.0033	0.00053	ND		0.0045	0.00073		
1,2,3-Trichloropropane	NS	NS	NS	NS	NS	ND		0.0029	0.00018	ND		0.0019	0.00012	ND		0.0034	0.00022	ND		0.002	0.00012	ND		0.0033	0.00021	ND		0.0045	0.00029		
1,2,4,5-Tetramethylbenzene	NS	NS	NS	NS	NS	ND		0.0029	0.00028	ND		0.0019	0.00018	ND		0.0034	0.00033	ND		0.002	0.00019	ND		0.0033	0.00032	ND		0.0045	0.00043		
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	ND		0.0029	0.0004	ND		0.0019	0.00026	ND		0.0034	0.00046	ND		0.002	0.00027	ND		0.0033	0.00045	ND		0.0045	0.00061		
1,2,4-Trimethylbenzene	380	190	47	52	3.6	ND		0.0029	0.00049	ND		0.0019	0.00032	ND		0.0034	0.00057	ND		0.002	0.00033	ND		0.0033	0.00055	ND		0.0045	0.00075		
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	NS	ND		0.0044	0.0015	ND		0.0028	0.00095	ND		0.0051	0.0017	ND		0.0029	0.00098	ND		0.005	0.0016	ND		0.0068	0.0022		
1,2-Dibromethane	NS	NS	NS	NS	NS	ND		0.0015	0.00041	ND		0.00095	0.00026	ND		0.0017	0.00048	ND		0.00098	0.00027	ND		0.0016	0.00046	ND		0.0022	0.00063		
1,2-Dichlorobenzene	1000	500	100	100	1.1	ND		0.0029	0.00021	ND		0.0019	0.00014	ND		0.0034	0.00025	ND		0.002	0.00014	ND		0.0033	0.00024	ND		0.0045	0.00032		
1,2-Dichloroethane	60	30	2.3	3.1	0.02	ND		0.0015	0.00038	ND		0.00095	0.00024	ND		0.0017	0.00044	ND		0.00098	0.00025	ND		0.0016	0.00042	ND		0.0022	0.00058		
1,2-Dichloroethene, Total	NS	NS	NS	NS	NS	ND		0.0015	0.0002	ND		0.00095	0.00013	ND		0.0017	0.00023	ND		0.00098	0.00013	ND		0.0016	0.00023	ND		0.0022	0.00031		
1,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0015	0.00018	ND		0.00095	0.00012	ND		0.0017	0.00021	ND		0.00098	0.00012	ND		0.0016	0.00021	ND		0.0022	0.00028		
1,3,5-Trimethylbenzene	380	190	47	52	8.4	ND		0.0029	0.00028	ND		0.0019	0.00018	ND		0.0034	0.00033	ND		0.002	0.00019	ND		0.0033	0.00032	ND		0.0045	0.00044		
1,3-Dichlorobenzene	560	280	17	49	2.4	ND		0.0029	0.00022	ND		0.0019	0.00014	ND		0.0034	0.00025	ND		0.002	0.00014	ND		0.0033	0.00024	ND		0.0045	0.00033		
1,3-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0029	0.00024	ND		0.0019	0.00016	ND		0.0034	0.00028	ND		0.002	0.00016	ND		0.0033	0.00028	ND		0.0045	0.00038		
1,3-Dichloropropene, Total	NS	NS	NS	NS	NS	ND		0.00073	0.00023	ND		0.00047	0.00015	ND		0.00085	0.00027	ND		0.00049	0.00016	ND		0.00083	0.00026	ND		0.0011	0.00036		
1,4-Dichlorobenzene	250	130	9.8	13	1.8	ND		0.0029	0.00025	ND		0.0019	0.00016	ND		0.0034	0.00029	ND		0.002	0.00017	ND		0.0033	0.00028	ND		0.0045	0.00038		
1,4-Dioxane	250	130	9.8	13	0.1	ND		0.12	0.051	ND		0.076	0.033	ND		0.14	0.06	ND		0.078	0.034	ND		0.13	0.058	ND		0.18	0.079		
2,2-Dichloropropane	NS	NS	NS	NS	NS	ND		0.0029	0.0003	ND		0.0019	0.00019	ND		0.0034	0.00034	ND		0.002	0.0002	ND		0.0033	0.00033	ND		0.0045	0.00046		
2-Butanone	1000	500	100	100	0.12	ND		0.015	0.0032	ND		0.0095	0.0021	ND		0.017	0.0038	ND		0.0098	0.0022	ND		0.016	0.0037	ND		0.022	0.005		
2-Hexanone	NS	NS	NS	NS	NS	ND		0.015	0.0017	ND		0.0095	0.0011	ND		0.017	0.002	ND		0.0098	0.0012	ND		0.016	0.002	ND		0.022	0.0027		
4-Methyl-2-pentanone	NS	NS	NS	NS	NS	ND		0.015	0.0019	ND		0.0095	0.0012	ND		0.017	0.0022	ND		0.0098	0.0012	ND		0.016	0.0021	ND		0.022	0.0029		
Acetone	1000	500	100	100	0.05	0.02		0.015	0.007	ND		0.0095	0.0046	ND		0.017	0.0082	ND		0.0098	0.0047	ND		0.016	0.008	ND		0.022	0.011		
Acrylonitrile	NS	NS	NS	NS	NS	ND		0.0058	0.0017	ND		0.0038	0.0011	ND		0.0068	0.002	ND		0.0039	0.0011	ND		0.0066	0.0019	ND		0.009	0.0026		
Benzene	89	44	2.9	4.8	0.06	ND		0.00073	0.00024	ND		0.00047	0.00016	ND		0.00085	0.00028	ND		0.00049	0.00016	ND		0.00083	0.00027	ND		0.0011	0.00037		
Bromobenzene	NS	NS	NS	NS	NS	ND		0.0029	0.00021	ND		0.0019	0.00014	ND		0.0034	0.00025	ND		0.002	0.00014	ND		0.0033	0.00024	ND		0.0045	0.00033		
Bromochloromethane	NS	NS	NS	NS	NS	ND		0.0029	0.0003	ND		0.0019	0.00019	ND		0.0034	0.00035	ND		0.002	0.0002	ND		0.0033	0.00034	ND		0.0045	0.00046		
Bromodichloromethane	NS	NS	NS	NS	NS	ND		0.00073	0.00016	ND		0.00047	0.0001	ND		0.00085	0.00019	ND		0.00049	0.00011	ND		0.00083	0.00018	ND		0.0011	0.00024		
Bromoform	NS	NS	NS	NS	NS	ND		0.0058	0.00036	ND		0.0038	0.00023	ND		0.0068	0.00042	ND		0.0039	0.00024	ND		0.0066	0.00041	ND		0.009	0.00055		
Bromomethane	NS	NS	NS	NS	NS	ND		0.0029	0.00085	ND		0.0019	0.00055	ND		0.0034	0.00099	ND		0.002	0.00057	ND		0.0033	0.00096	ND		0.0045	0.0013		
Carbon disulfide	NS	NS	NS	NS	NS	ND		0.015	0.0067	ND		0.0095	0.0043	ND		0.017	0.0078	ND		0.0098	0.0045	ND		0.016	0.0075	ND		0.022	0.01		
Carbon tetrachloride	44	22	1.4	2.4	0.76	ND		0.0015	0.00034	ND		0.00095	0.00022	ND		0.0017	0.00039	ND		0.00098	0.00022	ND		0.0016	0.00038	ND		0.0022	0.00052		
Chlorobenzene	1000	500	100	100	1.1	ND		0.00073	0.00018	ND																					

ATTACHMENT A

SOIL BORING LOGS

SOIL BORING / MONITORING WELL												
CONSTRUCTION LOG												
VERTEX	PROJECT: RockFarmer				PROJECT NO.: 48122		BORING NO.: B1					
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA					
	Date Start: 10/29/2021		Date Finish: 10/29/2021		INSPECTOR: T. Barros							
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data				
TYPE	MICROCORE						RISER ELEV.:	NA	Datum:			
SIZE (ID)	2-inch		3 foot sleeves				DATE:	NA				
HAMMER (LB.)	NA						TIME:	NA	Elevation (ft):			
FALL (IN.)	NA						DEPTH (ft):	NA				
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS		
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)								
1	0-3	1.5		0.9	0-0.5: Concrete slab & subbase							
2				0.0	0.5-3.0: Brown silt with many stones, dry							
3				0.0								
4	3-6	2.5		2.5	3.0-6.0: Brown silty sand, large pieces of stone, moist at 5.0-6.0'							
5				1.1								
6				1.0								
7	6-9	2.5		2.5	6.0-7.0: Light brown sandy silt, not packed, little stone, dry							
8				1.0	7.0-10.0: Medium brown silt, packed, dry							
9				0.3								
10	9-12	3		2.5	11.0-12.0: Light brown sandy silt, not packed, some stone, dry							
11				0.7								
12				0.1								
13	12-15	2		1.1	12.0-13.0: Medium brown silt, dry							
14				0.0	13.0-14.0: Light brown sandy silt, not packed, dry, refusal @ 14.0'							
15												
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)	Screen Riser Concrete Bentonite Native Sand Grout			
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2				
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4				
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8				
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15				
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30				
Note(s):							Hard		>30			
GROUNDWATER MONITORING WELL DATA										WELL MATERIALS USED		
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	NA	SAND SIZE:	NA			
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:	NA					
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:	NA					
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA									

SOIL BORING / MONITORING WELL CONSTRUCTION LOG											
VERTEX	PROJECT: RockFarmer				PROJECT NO.: 48122		BORING NO.: B2				
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA				
	Date Start: 10/29/2021				Date Finish: 10/29/2021		INSPECTOR: T. Barros				
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data			
TYPE MICROCORE						RISER ELEV.: NA		Datum:			
SIZE (ID) 2-inch		3 foot sleeves				DATE: NA					
HAMMER (LB.) NA						TIME: NA		Elevation (ft):			
FALL (IN.) NA						DEPTH (ft): NA					
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV (ft)		Interval (ft)	PEN / REC (ft)	BLOWS/6"							
1		0-3	1	NA	2.7	0-0.5: Concrete slab & subbase					
2					2.3	0.5-3: Medium brown silt, trace large pieces of stone, dry					
3					2.1						
4		3-6	1	NA	3.7	3.0-4.0: Dark brown silt, dry					
5					2.3	4.0-6.0: Medium brown silt, little stone, dry					
6					1.5						
7		6-9	3	NA	2	6.0-9.0: Medium brown silt, slight clay; some moisture @ 8.0-9.0ft					
8					1.4						
9					1.3						
10		9-12	3	NA	1.7	9.0-13.0: Light brown sandy silt, not packed, some stone, dry					
11					1.1						
12					1						
13		12-15	2	NA	1.4	13.0-15.0: Light brown silty sand, packed, trace rock, dry					
14					1.8						
15					2.5						
DESCRIPTION OF SOIL CONSTITUENTS				SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
% 0 - 5 %		Descriptor Trace		Density Very Loose	Blows (N) 0 - 4	Consistency Very Soft	Blows (N) <2			Screen	
5 - 15%		Little		Loose	4 - 10	Soft	2 - 4			Riser	
15 - 30%		Some		Medium Dense	10 - 30	Medium Stiff	4 - 8			Concrete	
30 - 50%		Modifier		Dense	30 - 50	Stiff	8 - 15			Bentonite	
>50%		In CAPs		Very Dense	>50	Very Stiff	15 - 30			Native	
Note(s):						Hard	>30			Sand	
										Grout	
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED				
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: NA			
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA					
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE: NA					
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA									

SOIL BORING / MONITORING WELL CONSTRUCTION LOG												
VERTEX	PROJECT: Rockfarmer				PROJECT NO.: 48122		BORING NO.: B3					
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA					
	Date Start: 10/28/2021				Date Finish: 10/28/2021		INSPECTOR: T. Barros					
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data				
TYPE	MICROCORE						RISER ELEV.:	NA	Datum:			
SIZE (ID)	2-inch		3 foot sleeves				DATE:	NA				
HAMMER (LB.)	NA						TIME:	NA	Elevation (ft):			
FALL (IN.)	NA						DEPTH (ft):	NA				
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS		
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)								
1	0-3	2	NA	0.0	0.0- 0.5: Concrete and sub-base							
2				0.0	0.5-1.5: Black/dark brown fine to coarse sand with gravel, dry							
3				0.0	1.5-3.0: Medium brown silty sand, trace coble, little angular gravel, dry							
4	3-6	2	NA	0.0	3.0-7.5: Medium brown silty sand, trace clay and gravel, dry							
5				0.0								
6				0.0								
7	6-9	2.5	NA	0.0	7.5-9.0: Medium brown silt, trace clay, damp							
8				0.0								
9				0.0								
10	9-12	2.5	NA	0.0	9.0-21.0: Light brown silt and fine sand, little gravel, dry, moist at bottom boring, refusal at 21.0'							
11				0.0								
12				0.0								
13	12-15	2	NA	0.0								
14				0.0								
15				0.0								
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)				
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2				
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4				
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8				
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15				
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30				
Note(s):							Hard		>30		Grout	
PID was malfunctioning the first day, a new one was ordered for second day of sampling.												
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED					
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	NA	SAND SIZE:	NA			
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:	NA					
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:	NA					
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA									

VERTEX

PROJECT:	Rockfarmer		
LOCATION:	82-13 37th Ave, Jackson Heights, Queens, NY		
Date Start:	10/28/2021	Date Finish:	

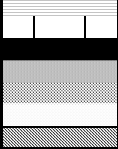
PROJECT NO.:	48122	BORING NO.:	B3
DRILLER:	PAL	WELL:	NA
INSPECTOR: T. Barros			

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SOIL BORING / MONITORING WELL											
CONSTRUCTION LOG											
VERTEX	PROJECT: RockFarmer				PROJECT NO.: 48122		BORING NO.: B4				
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA				
	Date Start: 10/29/2021		Date Finish: 10/29/2021		INSPECTOR: T. Barros						
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data			
MICROCORE						RISER ELEV.: NA		Datum:			
SIZE (ID)		2-inch		3 ft sleeves		DATE: NA					
HAMMER (LB.)		NA				TIME: NA		Elevation (ft):			
FALL (IN.)		NA				DEPTH (ft): NA					
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV (ft)		Interval (ft)	PEN / REC (ft)	BLOWS/6"							
1		0-3	2	NA	0.0	0.0- 0.5: Concrete and sub-base					
3.5	0.5-1.0: Black sandy silt with gravel, dry										
3.2	1.0-3.0: Medium brown silt, some gravel, dry										
2		3-6	2	NA	1.6	3.0-12.0: Medium brown silty sand, trace large rock pieces, dry to moist					
1.4											
1.4											
3		6-9	2	NA	2.3	12.0-13.0: Weathered rock, refusal @ 13ft					
2.0											
1.7											
4		9-12	2	NA	2.6						
1.9											
2.3											
5		12-15	1	NA	1.6						
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)	Screen Riser Concrete Bentonite Native Sand Grout		
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2			
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4			
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8			
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15			
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30			
Note(s):							Hard		>30		
A duplicate sample was taken at 1.5-2ft.											
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED				
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: NA			
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA					
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE: NA					
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA									

SOIL BORING / MONITORING WELL CONSTRUCTION LOG											
VERTEX	PROJECT: Rockfarmer					PROJECT NO.: 48122		BORING NO.: B5			
	LOCATION: 82-13 37th Avenue, Jackson Heights, Queens, NY					DRILLER: PAL		WELL: NA			
	Date Start: 10/29/2021					Date Finish: 10/29/2021		INSPECTOR: T. Barros			
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data			
TYPE	MICROCORE					RISER ELEV.:	NA	Datum:			
SIZE (ID)	2-inch	3 ft sleeves				DATE:	NA				
HAMMER (LB.)	NA					TIME:	NA	Elevation (ft):			
FALL (IN.)	NA					DEPTH (ft):	NA				
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)							
1	0-3	1.5	NA		0-0.5: Concrete slab & subbase						
				5.6 0.5-1.0: Medium brown silt with large gravel							
				1.0-1.5: Concrete refusal							
2											
3											
DESCRIPTION OF SOIL CONSTITUENTS				SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%		Descriptor		Density	Blows (N)	Consistency	Blows (N)			Screen	
0 - 5 %		Trace		Very Loose	0 - 4	Very Soft	<2			Riser	
5 - 15%		Little		Loose	4 - 10	Soft	2 - 4			Concrete	
15 - 30%		Some		Medium Dense	10 - 30	Medium Stiff	4 - 8			Bentonite	
30 - 50%		Modifier		Dense	30 - 50	Stiff	8 - 15			Native	
>50%		In CAPs		Very Dense	>50	Very Stiff	15 - 30			Sand	
Note(s):						Hard	>30			Grout	
There was a second layer of concrete after breaking through the floor, it didn't allow the drill to go deeper. Multiple attempts encountered shallow refusal.											
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED					
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	NA	SAND SIZE:	NA		
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:	NA				
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:	NA				
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA								

SOIL BORING / MONITORING WELL CONSTRUCTION LOG												
VERTEX	PROJECT: Rockfarmer				PROJECT NO.: 48122		BORING NO.: B6					
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA					
	Date Start: 10/28/2021				Date Finish: 10/28/2021		INSPECTOR: T. Barros					
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data				
TYPE	MICROCORE						RISER ELEV.:	NA	Datum:			
SIZE (ID)	2-inch		3 ft sleeves				DATE:	NA				
HAMMER (LB.)	NA						TIME:	NA	Elevation (ft):			
FALL (IN.)	NA						DEPTH (ft):	NA				
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS		
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)								
1	0-3	2	NA	0.0	0-0.5: Concrete & subbase							
2				0.0	0.5-2.0: Black sandy silt with gravel, dry							
3				0.0	2.0-3.0: Medium brown silty sand, dry							
4	3-6	2	NA	0.0	3.0-12.0: Medium brown silt/sand, some cobble, dry, refusal at 12.0'							
5				0.0								
6				0.0								
7	6-9	2	NA	0.0								
8				0.0								
9				0.0								
10	9-12	2	NA	0.0								
11				0.0								
12				0.0								
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)				
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2				
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4				
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8				
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15				
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30				
Note(s):							Hard		>30		Grout	
PID was malfunctioning the first day, a new one was ordered for second day of sampling.												
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED					
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	NA	SAND SIZE:	NA			
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:	NA					
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:	NA					
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA									

SOIL BORING / MONITORING WELL														
CONSTRUCTION LOG														
VERTEX	PROJECT: Rockfarmer				PROJECT NO.: 48122		BORING NO.: B7							
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA							
	Date Start: 10/29/2021		Date Finish: 10/29/2021		INSPECTOR: T. Barros									
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data						
TYPE	MICROCORE						RISER ELEV.:	NA	Datum:					
SIZE (ID)	2-inch		3 ft sleeves				DATE:	NA						
HAMMER (LB.)	NA						TIME:	NA	Elevation (ft):					
FALL (IN.)	NA						DEPTH (ft):	NA						
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS				
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)										
1	0-3	2	NA	0.0	0.0- 0.5: Concrete and sub-base									
2				0.0	0.5-1.0: Grey to black silty sand with gravel									
3				0.0	1.0-3.0: Medium brown silt, dry									
4	3-6	2.5	NA	0.0	3.0-4.0: Medium brown fine to coarse sand, dry									
5				0.9	4.0-6.0: Medium brown packed silt, dry to moist; little stone @5.0-6.0'									
6				1.3										
7	6-9	3	NA	0.0	6.0-14.0: Medium brown packed silt, very moist, refusal at 14.0'									
8				0.0										
9				1.1										
10	9-12	2.5	NA	2.4										
11				1.1										
12				1.2										
13	12-15	2	NA	1.4										
14				1.1										
15														
DESCRIPTION OF SOIL CONSTITUENTS								SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%		Descriptor		Density				Blows (N)	Consistency	Blows (N)			Screen Riser Concrete Bentonite Native Sand Grout	
0 - 5 %		Trace		Very Loose				0 - 4	Very Soft	<2				
5 - 15%		Little		Loose				4 - 10	Soft	2 - 4				
15 - 30%		Some		Medium Dense				10 - 30	Medium Stiff	4 - 8				
30 - 50%		Modifier		Dense				30 - 50	Stiff	8 - 15				
>50%		In CAPs		Very Dense	>50	Very Stiff	15 - 30							
Note(s):							Hard		>30					
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED							
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: NA						
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA								
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE: NA								
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA												

SOIL BORING / MONITORING WELL CONSTRUCTION LOG												
VERTEX	PROJECT: Rockfarmer					PROJECT NO.: 48122		BORING NO.: B8				
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY					DRILLER: PAL		WELL: NA				
	Date Start: 10/28/2021					Date Finish: 10/28/2021		INSPECTOR: T. Barros				
SAMPLER		CASING			CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data			
TYPE MICROCORE							RISER ELEV.: NA		Datum:			
SIZE (ID) 2-inch		3 ft sleeves					DATE: NA					
HAMMER (LB.) NA							TIME: NA		Elevation (ft):			
FALL (IN.) NA							DEPTH (ft): NA					
SAMPLE INFORMATION					SOIL DESCRIPTION				WELL CONST		WELL DETAILS	
DEPTH / ELEV (ft)		Interval (ft)	PEN / REC (ft)	BLOWS/6"								
1		0-3	2	NA	0.0	0.0'- 0.5': Concrete and sub-base						
2					0.0	0.5-1.5: Black sandy silt with gravel, dry						
3					0.0	1.5-3: Medium brown silt, dry						
4		3-6	2	NA	0.0	3.0-9.0: medium brown sand, little silt and clay, damp, trace large gravel, dry						
5					0.0							
6					0.0							
7		6-9	2	NA	0.0	9.0-12.0: Medium brown silt, dry to moist						
8					0.0							
9					0.0							
10		9-12	2	NA	0.0							
11					0.0							
12					0.0							
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)	Screen Riser Concrete Bentonite Native Sand Grout			
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2				
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4				
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8				
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15				
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30				
Note(s):							Hard		>30			
PID was malfunctioning the first day, a new one was ordered for second day of sampling.												
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED					
DEPTH (FT.): NA		SCREEN INTERVAL: NA			BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: NA			
DIA. (IN.): NA		LENGTH OF RISER: NA			SURFACE SEAL: NA		BENTONITE: NA					
MATERIAL: NA		DEPTH/TYPE PACK: NA			ROADBOX DESC.: NA		CONCRETE: NA					
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA										

SOIL BORING / MONITORING WELL CONSTRUCTION LOG											
VERTEX	PROJECT: Rockfarmer				PROJECT NO.: 48122		BORING NO.: B9				
	LOCATION: 82-13 37th Ave, Jackson Heights, Queens, NY				DRILLER: PAL		WELL: NA				
	Date Start: 10/29/2021				Date Finish: 10/29/2021		INSPECTOR: T. Barros				
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data			
TYPE	MICROCORE						RISER ELEV.:	NA	Datum:		
SIZE (ID)	2-inch		3 ft sleeves				DATE:	NA			
HAMMER (LB.)	NA						TIME:	NA	Elevation (ft):		
FALL (IN.)	NA						DEPTH (ft):	NA			
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV (ft)	Interval (ft)	PEN / REC (ft)	BLOWS/6"	PID (ppm)							
1	0-3	1.5	NA	0.0	0.0- 0.5: Concrete and sub-base						
2				7.1	0.5-1.5: Black sandy silt with gravel, dry						
3				5.1	1.5-3: Medium brown silty sand with trace cobble, dry						
4	3-6	1.5	NA	4.4							
5				4.1							
6				3							
7	6-9	1	NA	4.1	3.0-12.0: Medium brown silt, dry to slight moisture, trace gravel						
8				3.8							
9				3.4							
10	9-12	1	NA	4							
11				3.6							
12				4							
13	12-15	1	NA	4.1	12.0-15.0: Light brown silty sand, dry to moist						
14				3.2							
15				3							
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)			
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2			
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4			
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8			
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15			
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30			
Note(s):							Hard	>30			
GROUNDWATER MONITORING WELL DATA								WELL MATERIALS USED			
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	NA	SAND SIZE:	NA		
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:	NA				
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:	NA				
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA								

ATTACHMENT B

LABORATORY REPORTS



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2159098

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Project Name: ROCK FARMER
Project Number: 48122

Lab Number: L2159098
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2159098-01	B-3 (2-2.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:10	10/28/21
L2159098-02	B-3 (4-4.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:15	10/28/21
L2159098-03	B-3 (6-6.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:17	10/28/21
L2159098-04	B-3 (8-8.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:20	10/28/21
L2159098-05	B-3 (10-10.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:25	10/28/21
L2159098-06	B-3 (12-12.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:30	10/28/21
L2159098-07	B-3 (14-14.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:35	10/28/21
L2159098-08	B-3 (16-16.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:45	10/28/21
L2159098-09	B-3 (18-18.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 10:50	10/28/21
L2159098-10	B-3 (20-20.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 11:00	10/28/21
L2159098-11	B-6 (2-2.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 12:50	10/28/21
L2159098-12	B-6 (4-4.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 12:55	10/28/21
L2159098-13	B-6 (6-6.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 13:00	10/28/21
L2159098-14	B-6 (8-8.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 13:05	10/28/21
L2159098-15	B-6 (10-10.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 13:10	10/28/21
L2159098-16	B-6 (12-12.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 13:15	10/28/21

Project Name: ROCK FARMER
Project Number: 48122

Lab Number: L2159098
Report Date: 11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ROCK FARMER
Project Number: 48122

Lab Number: L2159098
Report Date: 11/11/21

Case Narrative (continued)

Report Submission

November 11, 2021: This final report includes the results of all requested analyses.

November 08, 2021: This preliminary report includes the results of the Volatile Organics analysis performed on L2159098-11 and -12.

November 04, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2159098-13, -14, -15 and -16: At the client's request, the Volatile Organics analysis was placed on hold.

L2159098-14: The sample identified as "B-6 (8-8.5)" on the chain of custody was identified as "B-8 (8-8.5)" on the container label. At the client's request, the sample is reported as "B-6 (8-8.5)".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Melissa Sturgis*

Report Date: 11/11/21

Title: Technical Director/Representative



GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCK FARMER
Project Number: 48122

Lab Number: L2159098
Report Date: 11/11/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCK FARMER
Project Number: 48122

Lab Number: L2159098
Report Date: 11/11/21

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary



Alpha Job Number : L2159098

Received : 28-OCT-2021

Reviewer : Geoffry Grace

Account Name : The Vertex Companies, Inc.

Project Number : 48122

Project Name : ROCK FARMER

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.4	

Condition Information

1) All samples on COC received?	YES
2) Extra samples received?	NO
3) Are there any sample container discrepancies?	NO
4) Are there any discrepancies between sample labels & COC? L2159098-14: B-6 (8-8.5) vs. B-8 (8-8.5)	YES
5) Are samples in appropriate containers for requested analysis?	YES
6) Are samples properly preserved for requested analysis?	YES
7) Are samples within holding time for requested analysis?	YES
8) All sampling equipment returned?	NA

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NO

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 11 2021, 04:16 pm

Login Number: L2159098

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 28OCT21 Due Date: 11NOV21

Sample # Client ID Mat PR Collected

L2159098-01 B-3 (2-2.5) 3 1A 28OCT21 10:10

| ASP-B Package Due Date: 11/11/21

ASP-B, ENCORE, NYTCL-8260HLW, TS

L2159098-02 B-3 (4-4.5) 3 1A 28OCT21 10:15

| Package Due Date: 11/11/21

ENCORE, NYTCL-8260HLW, TS

L2159098-03 B-3 (6-6.5) 3 1A 28OCT21 10:17

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-04 B-3 (8-8.5) 3 1A 28OCT21 10:20

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-05 B-3 (10-10.5) 3 1A 28OCT21 10:25

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-06 B-3 (12-12.5) 3 1A 28OCT21 10:30

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-07 B-3 (14-14.5) 3 1A 28OCT21 10:35

| Package Due Date: 11/11/21

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 11 2021, 04:16 pm

Login Number: L2159098

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 28OCT21 Due Date: 11NOV21

Sample # Client ID Mat PR Collected

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-08 B-3 (16-16.5) 3 1A 28OCT21 10:45

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-09 B-3 (18-18.5) 3 1A 28OCT21 10:50

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-10 B-3 (20-20.5) 3 1A 28OCT21 11:00

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-11 B-6 (2-2.5) 3 1A 28OCT21 12:50

| Package Due Date: 11/11/21

ENCORE, NYTCL-8260HLW, TS

L2159098-12 B-6 (4-4.5) 3 1A 28OCT21 12:55

| Package Due Date: 11/11/21

ENCORE, NYTCL-8260HLW, TS

L2159098-13 B-6 (6-6.5) 3 1A 28OCT21 13:00

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 11 2021, 04:16 pm

Login Number: L2159098

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 28OCT21 Due Date: 11NOV21

Sample # Client ID Mat PR Collected

L2159098-14 B-6 (8-8.5) 3 1A 28OCT21 13:05

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-15 B-6 (10-10.5) 3 1A 28OCT21 13:10

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159098-16 B-6 (12-12.5) 3 1A 28OCT21 13:15

| Package Due Date: 11/11/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd in Lab 12/28/21		ALPHA Job # L2109098	
		Project Information Project Name: <u>Rockfarmer</u> Project Location: <u>Jackson Heights, NY</u> Project # <u>48122</u> (Use Project name as Project #) ☐		Deliverables ☐ NJ Full / Reduced ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☒ Other <u>NY ASP Category B</u>		Billing Information ☒ Same as Client Info PO #			
Client Information Client: <u>Vertex</u> Address: <u>3322 Rte 22W 54907</u> <u>Branchburg NJ 08876</u> Phone: <u>908 448 2027</u> Fax: <u>908 450 1443</u> Email: <u>bierecz@vertexeng.com</u>		Project Manager: <u>T. Bierecz</u> ALPHAQuote #: <u>NA</u> Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Regulatory Requirement ☐ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☒ Other <u>NY ASP Category B</u>		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product:			
These samples have been previously analyzed by Alpha ☐		For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2		For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ B011		Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS VOCs	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
59098-01		B-3(2-2.5)		10/28/21 1010		S		ML/TB	
-02		B-3(4-4.5)		1015		S		X	
-03		B-3(6-6.5)		1017		S		X	
-04		B-3(8-8.5)		1020		S		X	
-05		B-3(10-10.5)		1025		S		X	
-06		B-3(12-12.5)		1030		S		X	
-07		B-3(14-14.5)		1035		S		X	
-08		B-3(16-16.5)		1045		S		X	
-09		B-3(18-18.5)		1050		S		X	
-10		B-3(20-20.5)		1100		S		X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>Ep</u> Preservative <u>A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By: <u>M. S. M. Kulis</u>		Date/Time: <u>10/28/21 13:31</u>		Received By: <u>MSM (AL)</u>		Date/Time: <u>10/28/21 13:30</u>			
<u>MSM (AL)</u>		<u>10/28/21 19:27</u>		<u>HAL</u>		<u>10/28/21 19:30</u>			
<u>HAL</u>		<u>10/28/21 21:45</u>		<u>HAL</u>		<u>10/28/21 21:45</u>			
<u>HAL</u>		<u>10/28/21 23:55</u>		<u>HAL</u>		<u>10/28/21 23:55</u>			

NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 2		Date Rec'd In Lab 10/28/21		ALPHA Job # L2157098				
		Project Information Project Name: Rockfarmer Project Location: Jackson Heights, NY Project # 48122 (Use Project name as Project #) ☐ Project Manager: T. Pierce ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Deliverables ☐ NJ Full / Reduced ☐ EQulS (1 File) ☐ EQulS (4 File) ☒ Other NY ASP Category B		Billing Information ☒ Same as Client Info PO #						
Client Information Client: Vertex Address: 3322 Ele 22w, Ste 907 Branchburg, NJ 08876 Phone: 908 448 2627 Fax: 908 450 1443 Email: thpierce@vertexeng.com		Regulatory Requirement ☐ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☒ Other NY		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product:								
These samples have been previously analyzed by Alpha ☐ For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2 For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011 Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS VOCs		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments		Total Bottle						
ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials												
59098-11		B-6 (2-2.5)		10/28/21 1250			S		mcl/m3		X	
-12		B-6 (4-4.5)		1255							X	
-13		B-6 (6-6.5)		1300							X	
-14		B-6 (8-8.5)		1305							X	
-15		B-6 (10-10.5)		1310							X	
-16		B-6 (12-12.5)		1315							X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type E/p Preservative A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
		Relinquished By: M. Kuloo		Date/Time 10/28/21 13:31		Received By: MSMA (op)		Date/Time 10/28/21 13:30				
		MSMA (op)		10/28/21 19:27		AAL		10/28/21 19:30				
		AAL		10/28/21 21:45		AAL		10/28/21 21:45				
		AAL		10/28/21 23:55		AAL		10/28/21 23:55				

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: The Vertex Companies, Inc.
Project Name: ROCK FARMER

Lab Number: L2159098
Project Number: 48122
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
B-3 (2-2.5) (L2159098-01)	128	92	94	108	0
B-3 (4-4.5) (L2159098-02)	128	91	92	110	0
B-6 (2-2.5) (L2159098-11)	105	107	109	104	0
B-6 (4-4.5) (L2159098-12)	107	106	107	105	0
WG1566511-3LCS	108	95	98	92	0
WG1566511-4LCSD	109	97	98	91	0
WG1566511-5BLANK	121	94	97	105	0
WG1568305-3LCS	102	107	102	101	0
WG1568305-4LCSD	98	108	102	99	0
WG1568305-5BLANK	103	108	106	103	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
 (70-130) TOL = TOLUENE-D8
 (70-130) BFB = 4-BROMOFLUOROBENZENE
 (70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260HLW



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1566511-3 Analysis Date : 11/02/21 16:38 File ID : V27211102N02
 LCSD Sample ID : WG1566511-4 Analysis Date : 11/02/21 16:59 File ID : V27211102N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	34	84	40	33	83	1	70-130	30
1,1-Dichloroethane	40	36	89	40	37	92	3	70-130	30
Chloroform	40	35	87	40	34	86	1	70-130	30
Carbon tetrachloride	40	43	107	40	42	104	3	70-130	30
1,2-Dichloropropane	40	42	106	40	43	106	0	70-130	30
Dibromochloromethane	40	41	102	40	40	101	1	70-130	30
1,1,2-Trichloroethane	40	36	90	40	37	92	2	70-130	30
Tetrachloroethene	40	40	100	40	40	100	0	70-130	30
Chlorobenzene	40	36	91	40	37	91	0	70-130	30
Trichlorofluoromethane	40	40	100	40	40	100	0	70-139	30
1,2-Dichloroethane	40	44	111	40	44	110	1	70-130	30
1,1,1-Trichloroethane	40	40	99	40	39	97	2	70-130	30
Bromodichloromethane	40	36	89	40	35	88	1	70-130	30
trans-1,3-Dichloropropene	40	41	101	40	40	100	1	70-130	30
cis-1,3-Dichloropropene	40	40	100	40	39	96	4	70-130	30
1,1-Dichloropropene	40	37	92	40	36	90	2	70-130	30
Bromoform	40	41	103	40	41	101	2	70-130	30
1,1,2,2-Tetrachloroethane	40	35	87	40	33	81	7	70-130	30
Benzene	40	35	88	40	35	87	1	70-130	30
Toluene	40	35	88	40	36	89	1	70-130	30
Ethylbenzene	40	36	91	40	36	90	1	70-130	30
Chloromethane	40	39	98	40	39	97	1	52-130	30
Bromomethane	40	35	87	40	34	86	1	57-147	30
Vinyl chloride	40	39	97	40	38	95	2	67-130	30
Chloroethane	40	28	70	40	28	70	0	50-151	30
1,1-Dichloroethene	40	30	76	40	30	74	3	65-135	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1566511-3 Analysis Date : 11/02/21 16:38 File ID : V27211102N02
 LCSD Sample ID : WG1566511-4 Analysis Date : 11/02/21 16:59 File ID : V27211102N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
trans-1,2-Dichloroethene	40	30	75	40	29	73	3	70-130	30
Trichloroethene	40	38	95	40	38	95	0	70-130	30
1,2-Dichlorobenzene	40	37	93	40	37	92	1	70-130	30
1,3-Dichlorobenzene	40	38	96	40	37	92	4	70-130	30
1,4-Dichlorobenzene	40	38	94	40	37	92	2	70-130	30
Methyl tert butyl ether	40	37	93	40	37	92	1	66-130	30
p/m-Xylene	80	68	85	80	69	86	1	70-130	30
o-Xylene	80	68	85	80	69	86	1	70-130	30
cis-1,2-Dichloroethene	40	33	82	40	32	80	2	70-130	30
Dibromomethane	40	35	88	40	35	87	1	70-130	30
Styrene	80	68	85	80	67	84	1	70-130	30
Dichlorodifluoromethane	40	38	95	40	37	93	2	30-146	30
Acetone	40	24	60	40	24	61	2	54-140	30
Carbon disulfide	40	29	74	40	29	72	3	59-130	30
2-Butanone	40	31	78	40	31	76	3	70-130	30
Vinyl acetate	40	45	113	40	42	106	6	70-130	30
4-Methyl-2-pentanone	40	43	107	40	44	109	2	70-130	30
1,2,3-Trichloropropane	40	39	97	40	39	96	1	68-130	30
2-Hexanone	40	33	83	40	33	81	2	70-130	30
Bromochloromethane	40	32	79	40	32	79	0	70-130	30
2,2-Dichloropropane	40	37	91	40	36	89	2	70-130	30
1,2-Dibromoethane	40	41	102	40	42	104	2	70-130	30
1,3-Dichloropropane	40	39	98	40	39	98	0	69-130	30
1,1,1,2-Tetrachloroethane	40	41	101	40	41	102	1	70-130	30
Bromobenzene	40	38	96	40	39	97	1	70-130	30
n-Butylbenzene	40	39	98	40	38	94	4	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1566511-3 Analysis Date : 11/02/21 16:38 File ID : V27211102N02
 LCSD Sample ID : WG1566511-4 Analysis Date : 11/02/21 16:59 File ID : V27211102N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
sec-Butylbenzene	40	38	94	40	37	92	2	70-130	30
tert-Butylbenzene	40	38	96	40	37	93	3	70-130	30
o-Chlorotoluene	40	38	94	40	36	91	3	70-130	30
p-Chlorotoluene	40	38	95	40	37	92	3	70-130	30
1,2-Dibromo-3-chloropropane	40	38	95	40	36	91	4	68-130	30
Hexachlorobutadiene	40	40	99	40	39	98	1	67-130	30
Isopropylbenzene	40	39	96	40	37	93	3	70-130	30
p-Isopropyltoluene	40	39	96	40	38	94	2	70-130	30
Naphthalene	40	37	92	40	36	91	1	70-130	30
Acrylonitrile	40	37	93	40	41	103	10	70-130	30
n-Propylbenzene	40	38	95	40	36	91	4	70-130	30
1,2,3-Trichlorobenzene	40	38	96	40	38	95	1	70-130	30
1,2,4-Trichlorobenzene	40	39	98	40	38	95	3	70-130	30
1,3,5-Trimethylbenzene	40	38	96	40	37	93	3	70-130	30
1,2,4-Trimethylbenzene	40	38	95	40	37	93	2	70-130	30
1,4-Dioxane	2000	1600	78	2000	1500	74	5	65-136	30
p-Diethylbenzene	40	38	94	40	36	90	4	70-130	30
p-Ethyltoluene	40	38	95	40	37	91	4	70-130	30
1,2,4,5-Tetramethylbenzene	40	38	96	40	37	91	5	70-130	30
Ethyl ether	40	28	70	40	29	73	4	67-130	30
trans-1,4-Dichloro-2-butene	40	45	112	40	44	110	2	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1568305-3 Analysis Date : 11/06/21 06:05 File ID : V23211106A01
 LCSD Sample ID : WG1568305-4 Analysis Date : 11/06/21 06:30 File ID : V23211106A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	38	95	40	37	92	3	70-130	30
1,1-Dichloroethane	40	42	104	40	41	103	1	70-130	30
Chloroform	40	40	101	40	40	99	2	70-130	30
Carbon tetrachloride	40	46	114	40	45	114	0	70-130	30
1,2-Dichloropropane	40	41	104	40	41	101	3	70-130	30
Dibromochloromethane	40	43	107	40	43	107	0	70-130	30
1,1,2-Trichloroethane	40	43	108	40	43	106	2	70-130	30
Tetrachloroethene	40	46	115	40	46	116	1	70-130	30
Chlorobenzene	40	45	112	40	46	114	2	70-130	30
Trichlorofluoromethane	40	40	100	40	36	89	12	70-139	30
1,2-Dichloroethane	40	40	101	40	40	100	1	70-130	30
1,1,1-Trichloroethane	40	45	112	40	44	111	1	70-130	30
Bromodichloromethane	40	44	111	40	43	107	4	70-130	30
trans-1,3-Dichloropropene	40	48	120	40	48	120	0	70-130	30
cis-1,3-Dichloropropene	40	44	111	40	43	108	3	70-130	30
1,1-Dichloropropene	40	45	112	40	44	111	1	70-130	30
Bromoform	40	43	108	40	43	107	1	70-130	30
1,1,2,2-Tetrachloroethane	40	45	112	40	44	109	3	70-130	30
Benzene	40	42	106	40	42	104	2	70-130	30
Toluene	40	45	111	40	45	113	2	70-130	30
Ethylbenzene	40	46	114	40	46	114	0	70-130	30
Chloromethane	40	38	96	40	38	95	1	52-130	30
Bromomethane	40	40	101	40	40	99	2	57-147	30
Vinyl chloride	40	39	98	40	40	99	1	67-130	30
Chloroethane	40	41	102	40	40	100	2	50-151	30
1,1-Dichloroethene	40	41	102	40	42	104	2	65-135	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1568305-3 Analysis Date : 11/06/21 06:05 File ID : V23211106A01
 LCSD Sample ID : WG1568305-4 Analysis Date : 11/06/21 06:30 File ID : V23211106A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
trans-1,2-Dichloroethene	40	41	102	40	42	104	2	70-130	30
Trichloroethene	40	43	107	40	43	107	0	70-130	30
1,2-Dichlorobenzene	40	45	111	40	44	111	0	70-130	30
1,3-Dichlorobenzene	40	45	113	40	46	114	1	70-130	30
1,4-Dichlorobenzene	40	45	111	40	45	112	1	70-130	30
Methyl tert butyl ether	40	40	101	40	39	98	3	66-130	30
p/m-Xylene	80	94	117	80	94	117	0	70-130	30
o-Xylene	80	93	116	80	93	116	0	70-130	30
cis-1,2-Dichloroethene	40	41	103	40	41	102	1	70-130	30
Dibromomethane	40	41	103	40	40	101	2	70-130	30
Styrene	80	82	102	80	82	102	0	70-130	30
Dichlorodifluoromethane	40	37	92	40	38	94	2	30-146	30
Acetone	40	41	103	40	38	96	7	54-140	30
Carbon disulfide	40	37	93	40	37	92	1	59-130	30
2-Butanone	40	41	101	40	38	95	6	70-130	30
Vinyl acetate	40	49	123	40	47	118	4	70-130	30
4-Methyl-2-pentanone	40	41	104	40	41	103	1	70-130	30
1,2,3-Trichloropropane	40	43	107	40	41	103	4	68-130	30
2-Hexanone	40	42	104	40	40	100	4	70-130	30
Bromochloromethane	40	41	104	40	40	100	4	70-130	30
2,2-Dichloropropane	40	46	114	40	45	112	2	70-130	30
1,2-Dibromoethane	40	45	113	40	44	111	2	70-130	30
1,3-Dichloropropane	40	43	108	40	43	107	1	69-130	30
1,1,1,2-Tetrachloroethane	40	48	121	40	48	121	0	70-130	30
Bromobenzene	40	43	108	40	43	108	0	70-130	30
n-Butylbenzene	40	49	122	40	49	122	0	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159098
 Project Name : ROCK FARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1568305-3 Analysis Date : 11/06/21 06:05 File ID : V23211106A01
 LCSD Sample ID : WG1568305-4 Analysis Date : 11/06/21 06:30 File ID : V23211106A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
sec-Butylbenzene	40	48	120	40	48	121	1	70-130	30
tert-Butylbenzene	40	47	117	40	47	118	1	70-130	30
o-Chlorotoluene	40	48	119	40	47	117	2	70-130	30
p-Chlorotoluene	40	46	115	40	46	115	0	70-130	30
1,2-Dibromo-3-chloropropane	40	44	110	40	44	109	1	68-130	30
Hexachlorobutadiene	40	44	110	40	44	111	1	67-130	30
Isopropylbenzene	40	47	117	40	47	118	1	70-130	30
p-Isopropyltoluene	40	49	122	40	49	122	0	70-130	30
Naphthalene	40	44	109	40	43	108	1	70-130	30
Acrylonitrile	40	41	104	40	39	98	6	70-130	30
n-Propylbenzene	40	47	116	40	47	117	1	70-130	30
1,2,3-Trichlorobenzene	40	43	106	40	42	104	2	70-130	30
1,2,4-Trichlorobenzene	40	44	110	40	44	110	0	70-130	30
1,3,5-Trimethylbenzene	40	47	117	40	47	116	1	70-130	30
1,2,4-Trimethylbenzene	40	46	114	40	46	115	1	70-130	30
1,4-Dioxane	2000	2100	107	2000	2000	100	7	65-136	30
p-Diethylbenzene	40	48	120	40	49	121	1	70-130	30
p-Ethyltoluene	40	46	116	40	47	116	0	70-130	30
1,2,4,5-Tetramethylbenzene	40	47	118	40	48	119	1	70-130	30
Ethyl ether	40	40	99	40	39	98	1	67-130	30
trans-1,4-Dichloro-2-butene	40	47	118	40	46	114	3	70-130	30



Method Blank Summary
Form 4
Volatiles

Client	: The Vertex Companies, Inc.	Lab Number	: L2159098
Project Name	: ROCK FARMER	Project Number	: 48122
Lab Sample ID	: WG1566511-5	Lab File ID	: V27211102N05
Instrument ID	: VOA127		
Matrix	: SOIL	Analysis Date	: 11/02/21 17:40

Client Sample No.	Lab Sample ID	Analysis Date
WG1566511-3LCS	WG1566511-3	11/02/21 16:38
WG1566511-4LCSD	WG1566511-4	11/02/21 16:59
B-3 (2-2.5)	L2159098-01	11/02/21 19:43
B-3 (4-4.5)	L2159098-02	11/02/21 20:03

**Method Blank Summary
Form 4
Volatiles**

Client	: The Vertex Companies, Inc.	Lab Number	: L2159098
Project Name	: ROCK FARMER	Project Number	: 48122
Lab Sample ID	: WG1568305-5	Lab File ID	: V23211106A04
Instrument ID	: VOA123		
Matrix	: SOIL	Analysis Date	: 11/06/21 07:20

Client Sample No.	Lab Sample ID	Analysis Date
WG1568305-3LCS	WG1568305-3	11/06/21 06:05
WG1568305-4LCSD	WG1568305-4	11/06/21 06:30
B-6 (2-2.5)	L2159098-11	11/06/21 07:45
B-6 (4-4.5)	L2159098-12	11/06/21 08:10



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159098
Project Name : ROCK FARMER	Project Number : 48122
Instrument ID : VOA127	Analysis Date : 10/05/21 19:22
Tune Standard : WG1555130-1	Tune File ID : V27211005NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.3)1
174	Greater than 50.0 of mass 95	75.7
175	5.0 - 9.0% of mass 174	5.8 (7.6)1
176	95.0 - 101% of mass 174	73.6 (97.2)1
177	5.0 - 9.0% of mass 176	5.1 (6.9)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1486564-2	V27211005N03	10/05/21 20:25
STD1.0PPB	R1486564-1	V27211005N04	10/05/21 20:46
STD2.0PPB	R1486564-5	V27211005N05	10/05/21 21:06
STD4.0PPB	R1486564-3	V27211005N06	10/05/21 21:26
STD20PPB	R1486564-4	V27211005N07	10/05/21 21:47
STD40PPB	R1486564-7	V27211005N08	10/05/21 22:07
STD100PPB	R1486564-9	V27211005N09	10/05/21 22:28
STD200PPB	R1486564-8	V27211005N10	10/05/21 22:48
STD300PPB	R1486564-6	V27211005N11	10/05/21 23:08
ICV Quant Report	R1486564-10	V27211005N15	10/06/21 00:30

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159098
Project Name : ROCK FARMER	Project Number : 48122
Instrument ID : VOA127	Analysis Date : 11/02/21 15:56
Tune Standard : WG1566511-1	Tune File ID : V27211102NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	25.5
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.6 (.8)1
174	Greater than 50.0 of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.9 (7.8)1
176	95.0 - 101% of mass 174	73.7 (97.6)1
177	5.0 - 9.0% of mass 176	4.7 (6.4)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1566511-2CCAL	WG1566511-2	V27211102N02	11/02/21 16:38
WG1566511-3LCS	WG1566511-3	V27211102N02	11/02/21 16:38
WG1566511-4LCSD	WG1566511-4	V27211102N03	11/02/21 16:59
WG1566511-5BLANK	WG1566511-5	V27211102N05	11/02/21 17:40
B-3 (2-2.5)	L2159098-01	V27211102N11	11/02/21 19:43
B-3 (4-4.5)	L2159098-02	V27211102N12	11/02/21 20:03

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159098
Project Name : ROCK FARMER	Project Number : 48122
Instrument ID : VOA123	Analysis Date : 10/20/21 19:11
Tune Standard : WG1561383-1	Tune File ID : V23211020NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.4 (1.5)1
174	Greater than 50.0 of mass 95	94.1
175	5.0 - 9.0% of mass 174	7.4 (7.8)1
176	95.0 - 101% of mass 174	91.2 (96.9)1
177	5.0 - 9.0% of mass 176	5.9 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1492263-1	V23211020N04	10/20/21 20:51
STD1PPB	R1492263-2	V23211020N06	10/20/21 21:41
STD2PPB	R1492263-3	V23211020N07	10/20/21 22:06
STD4PPB	R1492263-4	V23211020N08	10/20/21 22:31
STD20PPB	R1492263-5	V23211020N09	10/20/21 22:56
STD40PPB	R1492263-6	V23211020N10	10/20/21 23:21
STD100PPB	R1492263-7	V23211020N11	10/20/21 23:46
STD200PPB	R1492263-8	V23211020N12	10/21/21 00:11
STD300PPB	R1492263-9	V23211020N13	10/21/21 00:36
ICV Quant Report	R1492263-10	V23211020N18	10/21/21 02:41

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159098
Project Name : ROCK FARMER	Project Number : 48122
Instrument ID : VOA123	Analysis Date : 11/06/21 05:32
Tune Standard : WG1568305-1	Tune File ID : V23211106BF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1 (1.2)1
174	Greater than 50.0 of mass 95	87.4
175	5.0 - 9.0% of mass 174	6.9 (7.9)1
176	95.0 - 101% of mass 174	83.1 (95.1)1
177	5.0 - 9.0% of mass 176	5.6 (6.7)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1568305-2CCAL	WG1568305-2	V23211106A01	11/06/21 06:05
WG1568305-3LCS	WG1568305-3	V23211106A01	11/06/21 06:05
WG1568305-4LCSD	WG1568305-4	V23211106A02	11/06/21 06:30
WG1568305-5BLANK	WG1568305-5	V23211106A04	11/06/21 07:20
B-6 (2-2.5)	L2159098-11	V23211106A05	11/06/21 07:45
B-6 (4-4.5)	L2159098-12	V23211106A06	11/06/21 08:10

Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Sample No : WG1566511-2

Lab Number : L2159098
 Project Number : 48122
 Analysis Date : 11/02/21 16:38:00
 Lab File ID : V27211102N02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1566511-2	114333	5.94	91419	8.76	48274	10.21
Upper Limit	228666	6.44	182838	9.26	96548	10.71
Lower Limit	57167	5.44	45710	8.26	24137	9.71
Sample ID						
WG1566511-3 LCS	114333	5.94	91419	8.76	48274	10.21
WG1566511-4 LCSD	112836	5.94	88743	8.76	48303	10.21
WG1566511-5 BLANK	95145	5.93	82655	8.76	48675	10.21
B-3 (2-2.5)	77668	5.94	67352	8.76	41588	10.21
B-3 (4-4.5)	75082	5.94	66484	8.76	40306	10.21

Area Upper Limit = +100% 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



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Sample No : WG1568305-2

Lab Number : L2159098
 Project Number : 48122
 Analysis Date : 11/06/21 06:05:00
 Lab File ID : V23211106A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1568305-2	207736	5.72	157233	9.23	91068	11.99
Upper Limit	415472	6.22	314466	9.73	182136	12.49
Lower Limit	103868	5.22	78617	8.73	45534	11.49
Sample ID						
WG1568305-3 LCS	207736	5.72	157233	9.23	91068	11.99
WG1568305-4 LCSD	221427	5.73	164290	9.23	95397	12.00
WG1568305-5 BLANK	194682	5.72	144234	9.23	73984	12.00
B-6 (2-2.5)	195589	5.73	148353	9.23	74652	12.00
B-6 (4-4.5)	177609	5.73	137557	9.23	70274	12.00

Area Upper Limit = +100% 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





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Created By: Jason Hebert
File: PM5049-1
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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

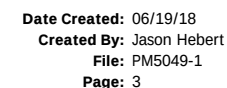
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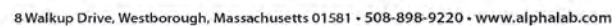




Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days

Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-01
 Client ID : B-3 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N11
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 19:43
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	8.1	3.7	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.24	U
67-66-3	Chloroform	ND	2.4	0.23	U
56-23-5	Carbon tetrachloride	ND	1.6	0.37	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.20	U
124-48-1	Dibromochloromethane	ND	1.6	0.23	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.43	U
127-18-4	Tetrachloroethene	ND	0.81	0.32	U
108-90-7	Chlorobenzene	ND	0.81	0.21	U
75-69-4	Trichlorofluoromethane	ND	6.5	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.42	U
71-55-6	1,1,1-Trichloroethane	ND	0.81	0.27	U
75-27-4	Bromodichloromethane	ND	0.81	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.44	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.26	U
542-75-6	1,3-Dichloropropene, Total	ND	0.81	0.26	U
563-58-6	1,1-Dichloropropene	ND	0.81	0.26	U
75-25-2	Bromoform	ND	6.5	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.81	0.27	U
71-43-2	Benzene	ND	0.81	0.27	U
108-88-3	Toluene	ND	1.6	0.88	U
100-41-4	Ethylbenzene	ND	1.6	0.23	U
74-87-3	Chloromethane	ND	6.5	1.5	U
74-83-9	Bromomethane	ND	3.2	0.95	U
75-01-4	Vinyl chloride	ND	1.6	0.54	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-01
 Client ID : B-3 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N11
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 19:43
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.2	0.74	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.39	U
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.22	U
79-01-6	Trichloroethene	ND	0.81	0.22	U
95-50-1	1,2-Dichlorobenzene	0.23	3.2	0.23	J
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.2	0.28	U
1634-04-4	Methyl tert butyl ether	ND	3.2	0.33	U
179601-23-1	p/m-Xylene	ND	3.2	0.91	U
95-47-6	o-Xylene	ND	1.6	0.47	U
1330-20-7	Xylenes, Total	ND	1.6	0.47	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.28	U
540-59-0	1,2-Dichloroethene, Total	ND	1.6	0.22	U
74-95-3	Dibromomethane	ND	3.2	0.39	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.8	U
75-15-0	Carbon disulfide	ND	16	7.4	U
78-93-3	2-Butanone	ND	16	3.6	U
108-05-4	Vinyl acetate	ND	16	3.5	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.1	U
96-18-4	1,2,3-Trichloropropane	ND	3.2	0.21	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.2	0.33	U
594-20-7	2,2-Dichloropropane	ND	3.2	0.33	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-01
 Client ID : B-3 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N11
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 19:43
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.6	0.45	U
142-28-9	1,3-Dichloropropane	ND	3.2	0.27	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.81	0.21	U
108-86-1	Bromobenzene	ND	3.2	0.24	U
104-51-8	n-Butylbenzene	ND	1.6	0.27	U
135-98-8	sec-Butylbenzene	ND	1.6	0.24	U
98-06-6	tert-Butylbenzene	ND	3.2	0.19	U
95-49-8	o-Chlorotoluene	ND	3.2	0.31	U
106-43-4	p-Chlorotoluene	ND	3.2	0.18	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.6	U
87-68-3	Hexachlorobutadiene	ND	6.5	0.28	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
99-87-6	p-Isopropyltoluene	ND	1.6	0.18	U
91-20-3	Naphthalene	ND	6.5	1.0	U
107-13-1	Acrylonitrile	ND	6.5	1.9	U
103-65-1	n-Propylbenzene	ND	1.6	0.28	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.2	0.52	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.44	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.2	0.31	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.2	0.54	U
123-91-1	1,4-Dioxane	ND	130	57.	U
105-05-5	p-Diethylbenzene	ND	3.2	0.29	U
622-96-8	p-Ethyltoluene	ND	3.2	0.62	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.2	0.31	U
60-29-7	Ethyl ether	ND	3.2	0.56	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-01
 Client ID : B-3 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N11
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 19:43
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	8.1	2.3	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-02
 Client ID : B-3 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N12
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:15
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 20:03
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	8.7	4.0	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.25	U
67-66-3	Chloroform	ND	2.6	0.24	U
56-23-5	Carbon tetrachloride	ND	1.7	0.40	U
78-87-5	1,2-Dichloropropane	ND	1.7	0.22	U
124-48-1	Dibromochloromethane	ND	1.7	0.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.46	U
127-18-4	Tetrachloroethene	ND	0.87	0.34	U
108-90-7	Chlorobenzene	ND	0.87	0.22	U
75-69-4	Trichlorofluoromethane	ND	7.0	1.2	U
107-06-2	1,2-Dichloroethane	ND	1.7	0.45	U
71-55-6	1,1,1-Trichloroethane	ND	0.87	0.29	U
75-27-4	Bromodichloromethane	ND	0.87	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.47	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.87	0.27	U
542-75-6	1,3-Dichloropropene, Total	ND	0.87	0.27	U
563-58-6	1,1-Dichloropropene	ND	0.87	0.28	U
75-25-2	Bromoform	ND	7.0	0.43	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.87	0.29	U
71-43-2	Benzene	ND	0.87	0.29	U
108-88-3	Toluene	ND	1.7	0.94	U
100-41-4	Ethylbenzene	ND	1.7	0.24	U
74-87-3	Chloromethane	ND	7.0	1.6	U
74-83-9	Bromomethane	ND	3.5	1.0	U
75-01-4	Vinyl chloride	ND	1.7	0.58	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-02
 Client ID : B-3 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N12
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:15
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 20:03
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.5	0.78	U
75-35-4	1,1-Dichloroethene	ND	1.7	0.41	U
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.24	U
79-01-6	Trichloroethene	ND	0.87	0.24	U
95-50-1	1,2-Dichlorobenzene	ND	3.5	0.25	U
541-73-1	1,3-Dichlorobenzene	ND	3.5	0.26	U
106-46-7	1,4-Dichlorobenzene	ND	3.5	0.30	U
1634-04-4	Methyl tert butyl ether	ND	3.5	0.35	U
179601-23-1	p/m-Xylene	ND	3.5	0.97	U
95-47-6	o-Xylene	ND	1.7	0.50	U
1330-20-7	Xylenes, Total	ND	1.7	0.50	U
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.30	U
540-59-0	1,2-Dichloroethene, Total	ND	1.7	0.24	U
74-95-3	Dibromomethane	ND	3.5	0.41	U
100-42-5	Styrene	ND	1.7	0.34	U
75-71-8	Dichlorodifluoromethane	ND	17	1.6	U
67-64-1	Acetone	8.5	17	8.4	J
75-15-0	Carbon disulfide	ND	17	7.9	U
78-93-3	2-Butanone	ND	17	3.8	U
108-05-4	Vinyl acetate	ND	17	3.7	U
108-10-1	4-Methyl-2-pentanone	ND	17	2.2	U
96-18-4	1,2,3-Trichloropropane	ND	3.5	0.22	U
591-78-6	2-Hexanone	ND	17	2.0	U
74-97-5	Bromochloromethane	ND	3.5	0.36	U
594-20-7	2,2-Dichloropropane	ND	3.5	0.35	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-02
 Client ID : B-3 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N12
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:15
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 20:03
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.7	0.48	U
142-28-9	1,3-Dichloropropane	ND	3.5	0.29	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.87	0.23	U
108-86-1	Bromobenzene	ND	3.5	0.25	U
104-51-8	n-Butylbenzene	ND	1.7	0.29	U
135-98-8	sec-Butylbenzene	ND	1.7	0.25	U
98-06-6	tert-Butylbenzene	0.20	3.5	0.20	J
95-49-8	o-Chlorotoluene	ND	3.5	0.33	U
106-43-4	p-Chlorotoluene	ND	3.5	0.19	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	1.7	U
87-68-3	Hexachlorobutadiene	ND	7.0	0.29	U
98-82-8	Isopropylbenzene	ND	1.7	0.19	U
99-87-6	p-Isopropyltoluene	ND	1.7	0.19	U
91-20-3	Naphthalene	ND	7.0	1.1	U
107-13-1	Acrylonitrile	ND	7.0	2.0	U
103-65-1	n-Propylbenzene	ND	1.7	0.30	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.5	0.56	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.5	0.47	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.5	0.34	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.5	0.58	U
123-91-1	1,4-Dioxane	ND	140	61.	U
105-05-5	p-Diethylbenzene	ND	3.5	0.31	U
622-96-8	p-Ethyltoluene	ND	3.5	0.67	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.5	0.33	U
60-29-7	Ethyl ether	ND	3.5	0.59	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-02
 Client ID : B-3 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N12
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:15
 Date Received : 10/28/21
 Date Analyzed : 11/02/21 20:03
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	8.7	2.5	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-11
 Client ID : B-6 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A05
 Sample Amount : 2.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 07:45
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	10	4.8	U
75-34-3	1,1-Dichloroethane	ND	2.1	0.30	U
67-66-3	Chloroform	ND	3.1	0.29	U
56-23-5	Carbon tetrachloride	ND	2.1	0.48	U
78-87-5	1,2-Dichloropropane	ND	2.1	0.26	U
124-48-1	Dibromochloromethane	ND	2.1	0.29	U
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.56	U
127-18-4	Tetrachloroethene	ND	1.0	0.41	U
108-90-7	Chlorobenzene	ND	1.0	0.27	U
75-69-4	Trichlorofluoromethane	ND	8.4	1.4	U
107-06-2	1,2-Dichloroethane	ND	2.1	0.54	U
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	U
75-27-4	Bromodichloromethane	ND	1.0	0.23	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.57	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.33	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.33	U
563-58-6	1,1-Dichloropropene	ND	1.0	0.33	U
75-25-2	Bromoform	ND	8.4	0.52	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.35	U
71-43-2	Benzene	ND	1.0	0.35	U
108-88-3	Toluene	ND	2.1	1.1	U
100-41-4	Ethylbenzene	ND	2.1	0.30	U
74-87-3	Chloromethane	ND	8.4	2.0	U
74-83-9	Bromomethane	ND	4.2	1.2	U
75-01-4	Vinyl chloride	ND	2.1	0.70	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-11
 Client ID : B-6 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A05
 Sample Amount : 2.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 07:45
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	4.2	0.95	U
75-35-4	1,1-Dichloroethene	ND	2.1	0.50	U
156-60-5	trans-1,2-Dichloroethene	ND	3.1	0.29	U
79-01-6	Trichloroethene	ND	1.0	0.29	U
95-50-1	1,2-Dichlorobenzene	ND	4.2	0.30	U
541-73-1	1,3-Dichlorobenzene	ND	4.2	0.31	U
106-46-7	1,4-Dichlorobenzene	ND	4.2	0.36	U
1634-04-4	Methyl tert butyl ether	ND	4.2	0.42	U
179601-23-1	p/m-Xylene	ND	4.2	1.2	U
95-47-6	o-Xylene	ND	2.1	0.61	U
1330-20-7	Xylenes, Total	ND	2.1	0.61	U
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.37	U
540-59-0	1,2-Dichloroethene, Total	ND	2.1	0.29	U
74-95-3	Dibromomethane	ND	4.2	0.50	U
100-42-5	Styrene	ND	2.1	0.41	U
75-71-8	Dichlorodifluoromethane	ND	21	1.9	U
67-64-1	Acetone	ND	21	10.	U
75-15-0	Carbon disulfide	ND	21	9.6	U
78-93-3	2-Butanone	ND	21	4.7	U
108-05-4	Vinyl acetate	ND	21	4.5	U
108-10-1	4-Methyl-2-pentanone	ND	21	2.7	U
96-18-4	1,2,3-Trichloropropane	ND	4.2	0.27	U
591-78-6	2-Hexanone	ND	21	2.5	U
74-97-5	Bromochloromethane	ND	4.2	0.43	U
594-20-7	2,2-Dichloropropane	ND	4.2	0.42	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-11
 Client ID : B-6 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A05
 Sample Amount : 2.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 07:45
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.1	0.58	U
142-28-9	1,3-Dichloropropane	ND	4.2	0.35	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	U
108-86-1	Bromobenzene	ND	4.2	0.30	U
104-51-8	n-Butylbenzene	ND	2.1	0.35	U
135-98-8	sec-Butylbenzene	ND	2.1	0.31	U
98-06-6	tert-Butylbenzene	ND	4.2	0.25	U
95-49-8	o-Chlorotoluene	ND	4.2	0.40	U
106-43-4	p-Chlorotoluene	ND	4.2	0.23	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.3	2.1	U
87-68-3	Hexachlorobutadiene	ND	8.4	0.35	U
98-82-8	Isopropylbenzene	ND	2.1	0.23	U
99-87-6	p-Isopropyltoluene	ND	2.1	0.23	U
91-20-3	Naphthalene	ND	8.4	1.4	U
107-13-1	Acrylonitrile	ND	8.4	2.4	U
103-65-1	n-Propylbenzene	ND	2.1	0.36	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.68	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.57	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.2	0.40	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.2	0.70	U
123-91-1	1,4-Dioxane	ND	170	74.	U
105-05-5	p-Diethylbenzene	ND	4.2	0.37	U
622-96-8	p-Ethyltoluene	ND	4.2	0.81	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.2	0.40	U
60-29-7	Ethyl ether	ND	4.2	0.72	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-11
 Client ID : B-6 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A05
 Sample Amount : 2.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 07:45
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	10	3.0	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-12
 Client ID : B-6 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A06
 Sample Amount : 5.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:55
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 08:10
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	4.8	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.97	0.14	U
67-66-3	Chloroform	ND	1.4	0.14	U
56-23-5	Carbon tetrachloride	ND	0.97	0.22	U
78-87-5	1,2-Dichloropropane	ND	0.97	0.12	U
124-48-1	Dibromochloromethane	ND	0.97	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.97	0.26	U
127-18-4	Tetrachloroethene	ND	0.48	0.19	U
108-90-7	Chlorobenzene	ND	0.48	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.9	0.67	U
107-06-2	1,2-Dichloroethane	ND	0.97	0.25	U
71-55-6	1,1,1-Trichloroethane	ND	0.48	0.16	U
75-27-4	Bromodichloromethane	ND	0.48	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.26	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.48	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	0.48	0.15	U
563-58-6	1,1-Dichloropropene	ND	0.48	0.15	U
75-25-2	Bromoform	ND	3.9	0.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.48	0.16	U
71-43-2	Benzene	ND	0.48	0.16	U
108-88-3	Toluene	ND	0.97	0.53	U
100-41-4	Ethylbenzene	ND	0.97	0.14	U
74-87-3	Chloromethane	ND	3.9	0.90	U
74-83-9	Bromomethane	ND	1.9	0.56	U
75-01-4	Vinyl chloride	ND	0.97	0.32	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-12
 Client ID : B-6 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A06
 Sample Amount : 5.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:55
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 08:10
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	1.9	0.44	U
75-35-4	1,1-Dichloroethene	ND	0.97	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.13	U
79-01-6	Trichloroethene	ND	0.48	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.19	U
179601-23-1	p/m-Xylene	ND	1.9	0.54	U
95-47-6	o-Xylene	ND	0.97	0.28	U
1330-20-7	Xylenes, Total	ND	0.97	0.28	U
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	0.97	0.13	U
74-95-3	Dibromomethane	ND	1.9	0.23	U
100-42-5	Styrene	ND	0.97	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.7	0.89	U
67-64-1	Acetone	5.0	9.7	4.7	J
75-15-0	Carbon disulfide	ND	9.7	4.4	U
78-93-3	2-Butanone	ND	9.7	2.2	U
108-05-4	Vinyl acetate	ND	9.7	2.1	U
108-10-1	4-Methyl-2-pentanone	ND	9.7	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	1.9	0.12	U
591-78-6	2-Hexanone	ND	9.7	1.1	U
74-97-5	Bromochloromethane	ND	1.9	0.20	U
594-20-7	2,2-Dichloropropane	ND	1.9	0.20	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-12
 Client ID : B-6 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A06
 Sample Amount : 5.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:55
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 08:10
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	0.97	0.27	U
142-28-9	1,3-Dichloropropane	ND	1.9	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.48	0.13	U
108-86-1	Bromobenzene	ND	1.9	0.14	U
104-51-8	n-Butylbenzene	ND	0.97	0.16	U
135-98-8	sec-Butylbenzene	ND	0.97	0.14	U
98-06-6	tert-Butylbenzene	ND	1.9	0.11	U
95-49-8	o-Chlorotoluene	ND	1.9	0.18	U
106-43-4	p-Chlorotoluene	ND	1.9	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	0.97	U
87-68-3	Hexachlorobutadiene	ND	3.9	0.16	U
98-82-8	Isopropylbenzene	ND	0.97	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.97	0.10	U
91-20-3	Naphthalene	ND	3.9	0.63	U
107-13-1	Acrylonitrile	ND	3.9	1.1	U
103-65-1	n-Propylbenzene	ND	0.97	0.16	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.9	0.31	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.26	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	0.32	U
123-91-1	1,4-Dioxane	ND	78	34.	U
105-05-5	p-Diethylbenzene	ND	1.9	0.17	U
622-96-8	p-Ethyltoluene	ND	1.9	0.37	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.9	0.18	U
60-29-7	Ethyl ether	ND	1.9	0.33	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-12
 Client ID : B-6 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A06
 Sample Amount : 5.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:55
 Date Received : 10/28/21
 Date Analyzed : 11/06/21 08:10
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.8	1.4	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1566511-5
 Client ID : WG1566511-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/02/21 17:40
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1566511-5
 Client ID : WG1566511-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/02/21 17:40
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	0.18	2.0	0.14	J
541-73-1	1,3-Dichlorobenzene	0.16	2.0	0.15	J
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1566511-5
 Client ID : WG1566511-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/02/21 17:40
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	0.15	2.0	0.14	J
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1566511-5
 Client ID : WG1566511-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V27211102N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/02/21 17:40
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : VOA127
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1568305-5
 Client ID : WG1568305-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/06/21 07:20
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1568305-5
 Client ID : WG1568305-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/06/21 07:20
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	0.68	1.0	0.20	J
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1568305-5
 Client ID : WG1568305-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/06/21 07:20
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1568305-5
 Client ID : WG1568305-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V23211106A04
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159098
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/06/21 07:20
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA123
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N11.D
 Acq On : 02 Nov 2021 07:43 pm
 Operator : VOA127:AJK
 Sample : L2159098-01,31,3.28,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 02 22:32:11 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	77668	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery =	67.93%		
59) Chlorobenzene-d5	8.761	117	67352	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery =	73.67%		
79) 1,4-Dichlorobenzene-d4	10.208	152	41588	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery =	86.15%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.017	113	25596	21.661	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.31%		
43) 1,2-Dichloroethane-d4	5.615	65	33439	25.540	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	127.70%		
60) Toluene-d8	7.560	98	81358	18.475	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	92.38%		
83) 4-Bromofluorobenzene	9.553	95	36975	18.777	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.89%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	2.716	84	1305	Below Cal		85
17) Acetone	2.789	43	3423	3.335	ug/L	91
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	4.084	43	54	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N11.D
 Acq On : 02 Nov 2021 07:43 pm
 Operator : VOA127:AJK
 Sample : L2159098-01,31,3.28,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 02 22:32:11 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.608	92	316	0.105	ug/L	88
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	8.771	112	49		N.D.	
74) Ethylbenzene	8.798	91	73		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.897	106	155		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	d
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	9.631	91	58		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	9.631	91	58		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.825	91	155		N.D.	
94) tert-Butylbenzene	9.935	119	269		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N11.D
 Acq On : 02 Nov 2021 07:43 pm
 Operator : VOA127:AJK
 Sample : L2159098-01,31,3.28,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 02 22:32:11 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.977	105	51	N.D.		
98)	sec-Butylbenzene	10.040	105	56	N.D.		
99)	p-Isopropyltoluene	10.124	119	63	N.D.		
100)	1,3-Dichlorobenzene	10.177	146	374	0.119	ug/L #	37
101)	1,4-Dichlorobenzene	10.219	146	371	0.117	ug/L #	11
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	10.460	146	429	0.143	ug/L	77
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	11.283	180	127	N.D.		
110)	Naphthalene	11.461	128	1151	0.211	ug/L	100
111)	1,2,3-Trichlorobenzene	11.571	180	131	N.D.		

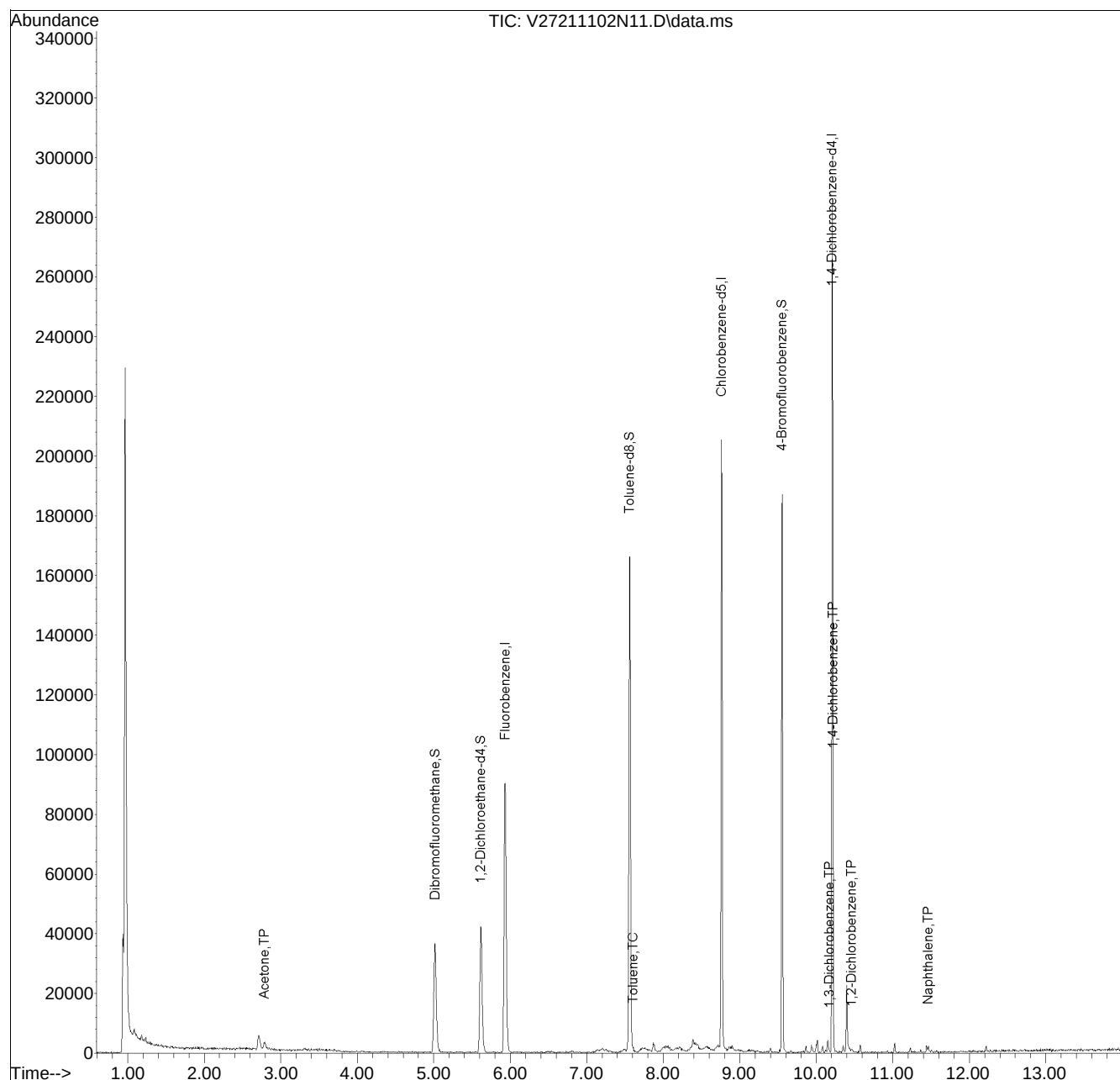
(#) = qualifier out of range (m) = manual integration (+) = signals summed

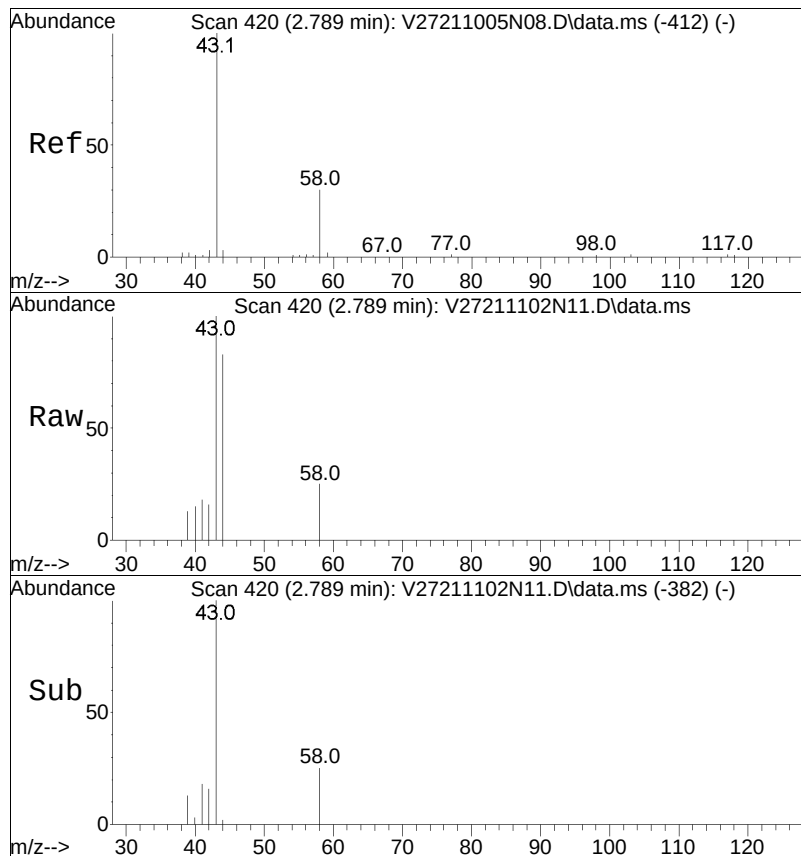
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N11.D
 Acq On : 02 Nov 2021 07:43 pm
 Operator : VOA127:AJK
 Sample : L2159098-01,31,3.28,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 02 22:32:11 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

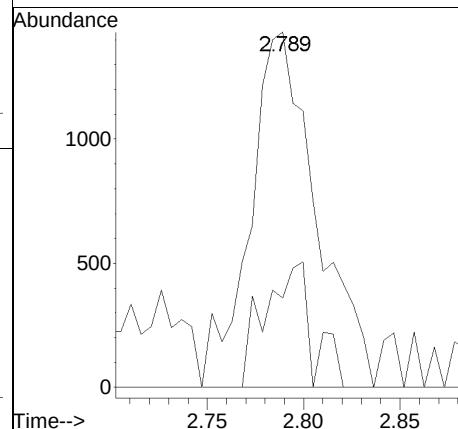
Sub List : 8260-NYTCL - Megamix plus Diox11102N\V27211102N02.D•

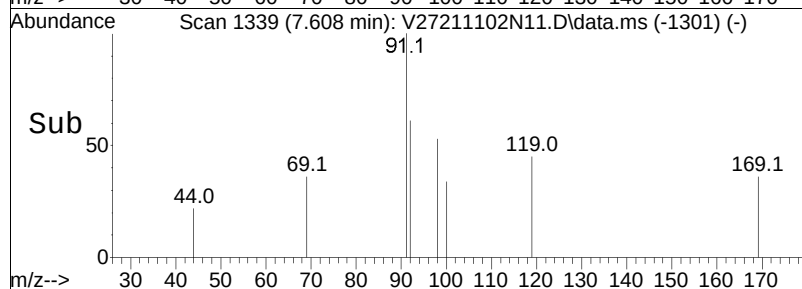
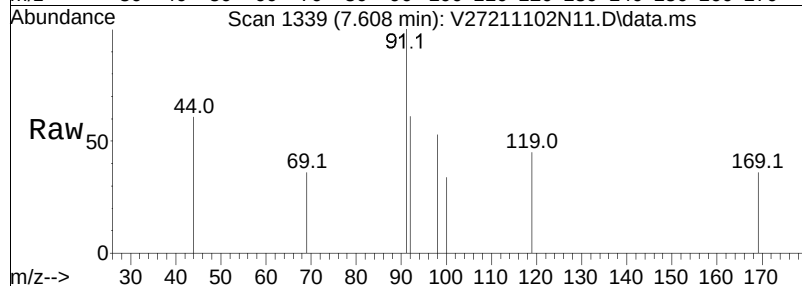
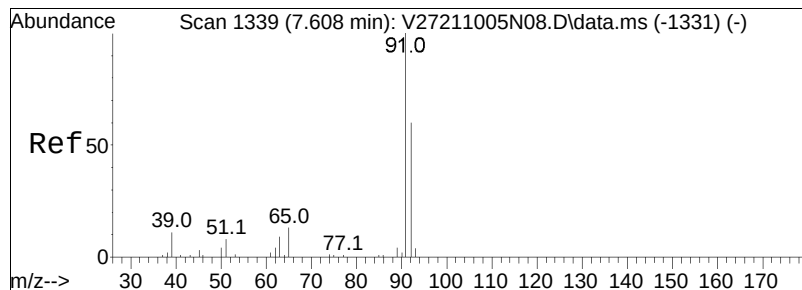




#17
 Acetone
 Concen: 3.34 ug/L
 RT: 2.789 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: V27211102N11.D
 Acq: 02 Nov 2021 07:43 pm

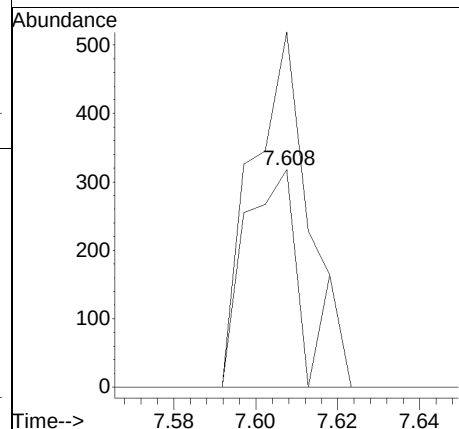
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	25.4	24.2	36.4	

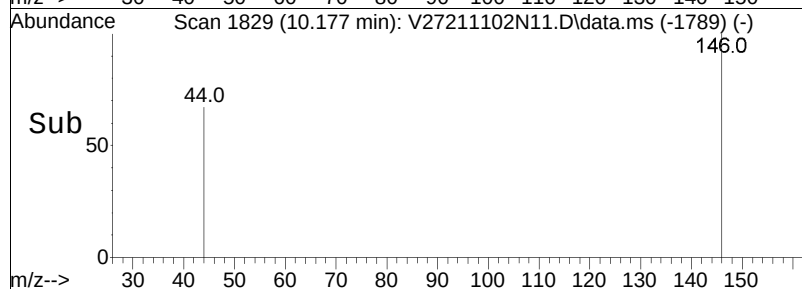
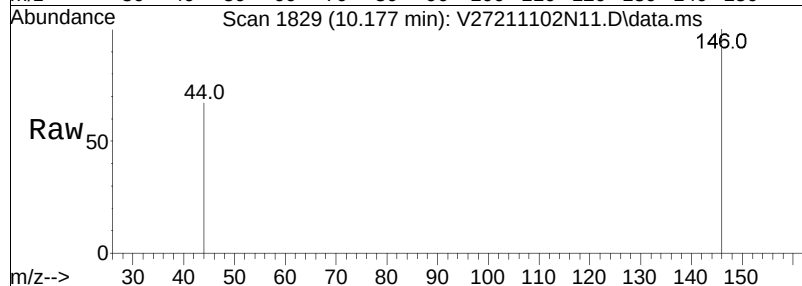
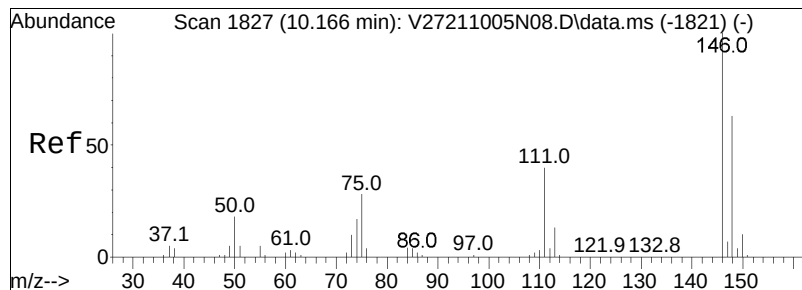




#61
Toluene
Concen: 0.11 ug/L
RT: 7.608 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V27211102N11.D
Acq: 02 Nov 2021 07:43 pm

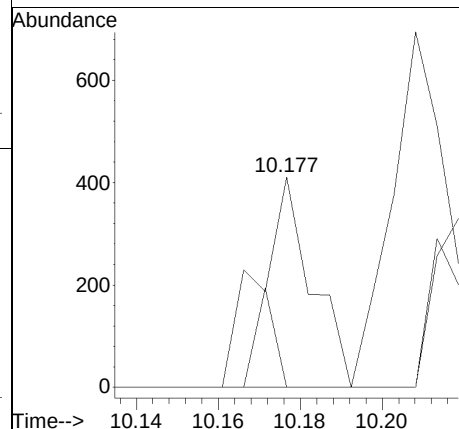
Tgt Ion: 92 Resp: 316
Ion Ratio Lower Upper
92 100
91 157.6 139.8 209.6

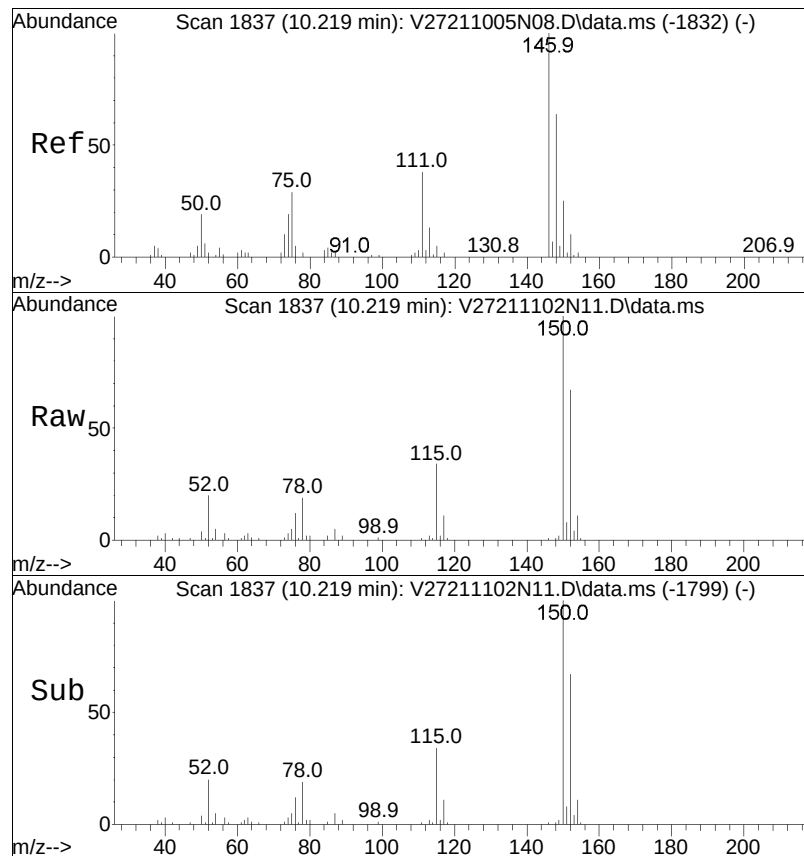




#100
 1,3-Dichlorobenzene
 Concen: 0.12 ug/L
 RT: 10.177 min Scan# 1829
 Delta R.T. 0.011 min
 Lab File: V27211102N11.D
 Acq: 02 Nov 2021 07:43 pm

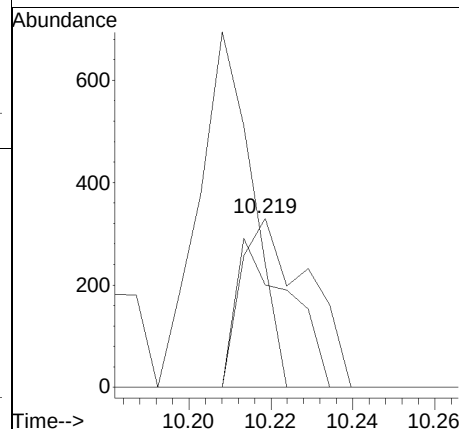
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	27.5	57.1#
148	16.3	41.9	86.9#

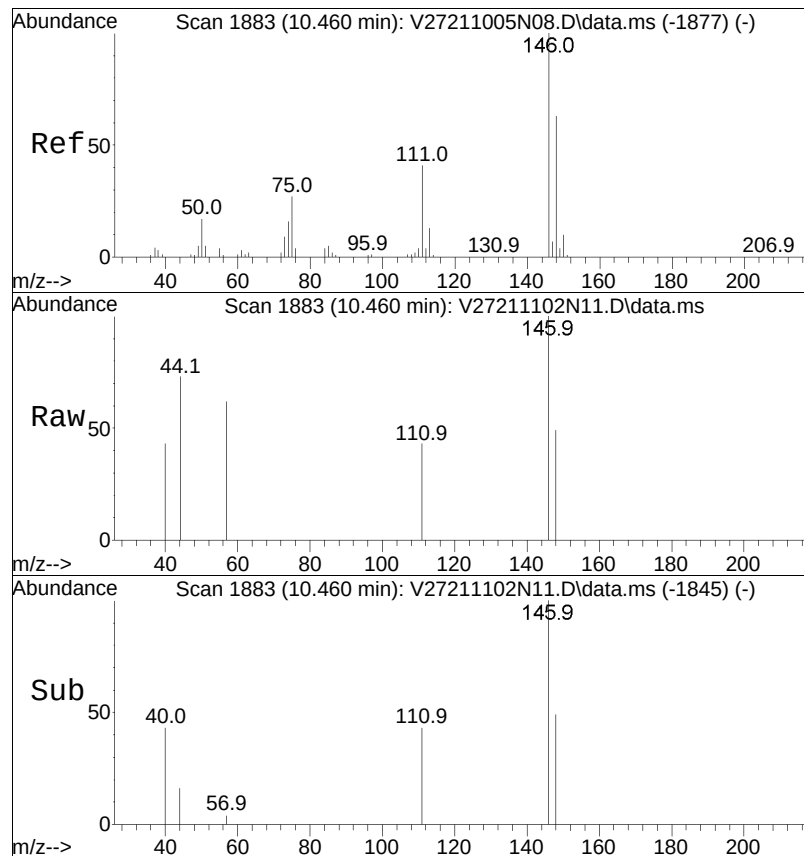




#101
 1,4-Dichlorobenzene
 Concen: 0.12 ug/L
 RT: 10.219 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: V27211102N11.D
 Acq: 02 Nov 2021 07:43 pm

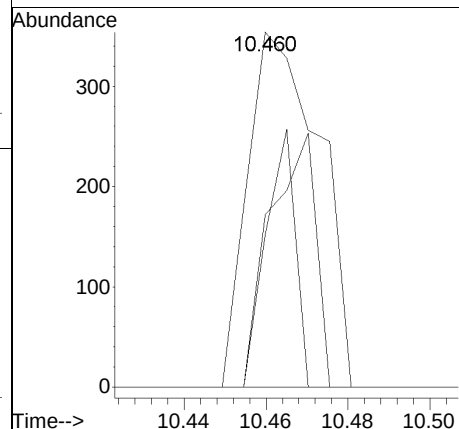
Tgt Ion	Ratio	Lower	Upper
146	100		
111	170.1	32.3	48.5#
148	70.6	49.9	74.9

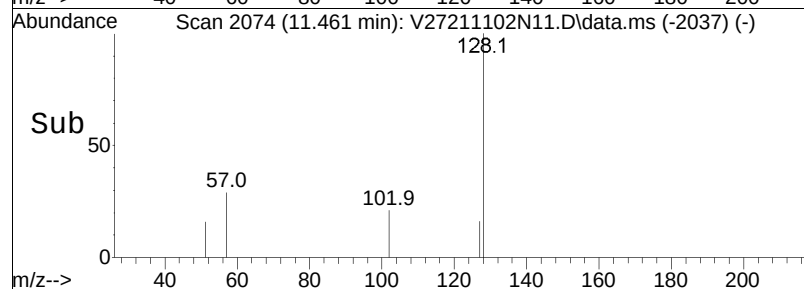
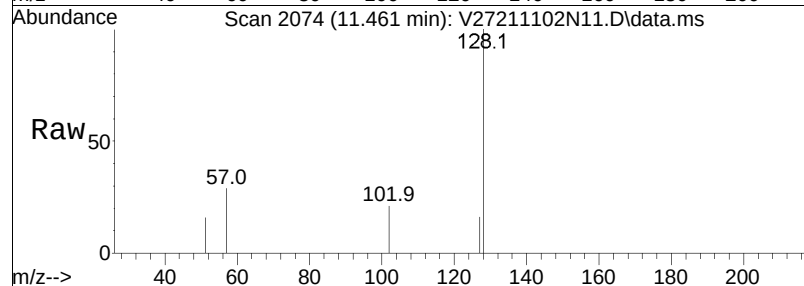
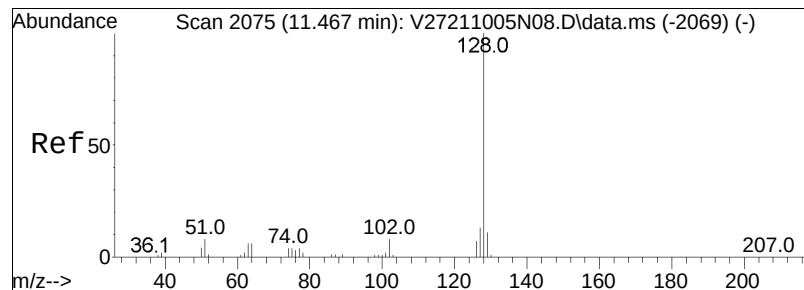




#104
 1,2-Dichlorobenzene
 Concen: 0.14 ug/L
 RT: 10.460 min Scan# 1883
 Delta R.T. -0.000 min
 Lab File: V27211102N11.D
 Acq: 02 Nov 2021 07:43 pm

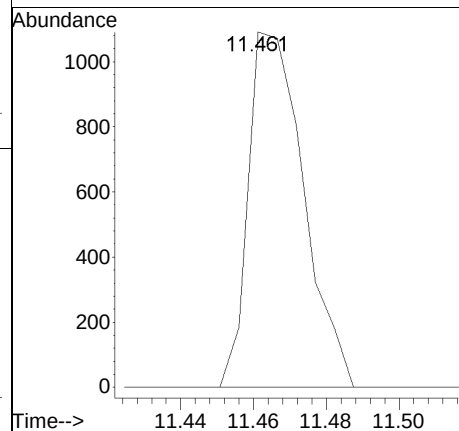
Tgt	Ion:146	Resp:	429
Ion	Ratio	Lower	Upper
146	100		
111	30.1	28.3	58.7
148	45.5	42.3	87.8





#110
Naphthalene
Concen: 0.21 ug/L
RT: 11.461 min Scan# 2074
Delta R.T. -0.006 min
Lab File: V27211102N11.D
Acq: 02 Nov 2021 07:43 pm

Tgt Ion:128 Resp: 1151



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\2QMethod : V127_211005N_8260.m
Data File : V27211102N11.D Operator : VOA127:AJK
Date Inj'd : 11/2/2021 7:43 pm Instrument : VOA127
Sample : L2159098-01,31,3.28,5,,Y,PQuant Date : 11/2/2021 10:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N12.D
 Acq On : 02 Nov 2021 08:03 pm
 Operator : VOA127:AJK
 Sample : L2159098-02,31,3.15,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 02 22:32:46 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	75082	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery =	65.67%		
59) Chlorobenzene-d5	8.761	117	66484	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery =	72.72%		
79) 1,4-Dichlorobenzene-d4	10.208	152	40306	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery =	83.49%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	25134	22.002	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	110.01%		
43) 1,2-Dichloroethane-d4	5.615	65	32276	25.501	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	127.51%		
60) Toluene-d8	7.560	98	79229	18.227	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	91.14%		
83) 4-Bromofluorobenzene	9.553	95	35073	18.378	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	91.89%		
Target Compounds						
2) Dichlorodifluoromethane	0.938	85	56	N.D.		
3) Chloromethane	1.211	50	429	0.168	ug/L #	82
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	2.710	84	1291	Below Cal		87
17) Acetone	2.789	43	4037	4.869	ug/L #	86
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N12.D
 Acq On : 02 Nov 2021 08:03 pm
 Operator : VOA127:AJK
 Sample : L2159098-02,31,3.15,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 02 22:32:46 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.608	92	106		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.798	91	103		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	9.212	104	265		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.694	105	107		N.D.	
89) 2-Chlorotoluene	9.820	91	117		N.D.	
90) 1,3,5-Trimethylbenzene	9.694	105	107		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.820	91	117		N.D.	
94) tert-Butylbenzene	9.951	119	546	0.118	ug/L	# 59

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N12.D
 Acq On : 02 Nov 2021 08:03 pm
 Operator : VOA127:AJK
 Sample : L2159098-02,31,3.15,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 02 22:32:46 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.983	105	57	N.D.		
98)	sec-Butylbenzene	9.983	105	57	N.D.		
99)	p-Isopropyltoluene	0.000		0	N.D.	d	
100)	1,3-Dichlorobenzene	10.166	146	293	0.096	ug/L #	70
101)	1,4-Dichlorobenzene	10.219	146	474	0.154	ug/L #	44
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	10.208	91	55	N.D.		
104)	1,2-Dichlorobenzene	10.465	146	397	0.136	ug/L #	46
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	11.283	180	112	N.D.		
110)	Naphthalene	11.466	128	970	0.183	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	52	N.D.		

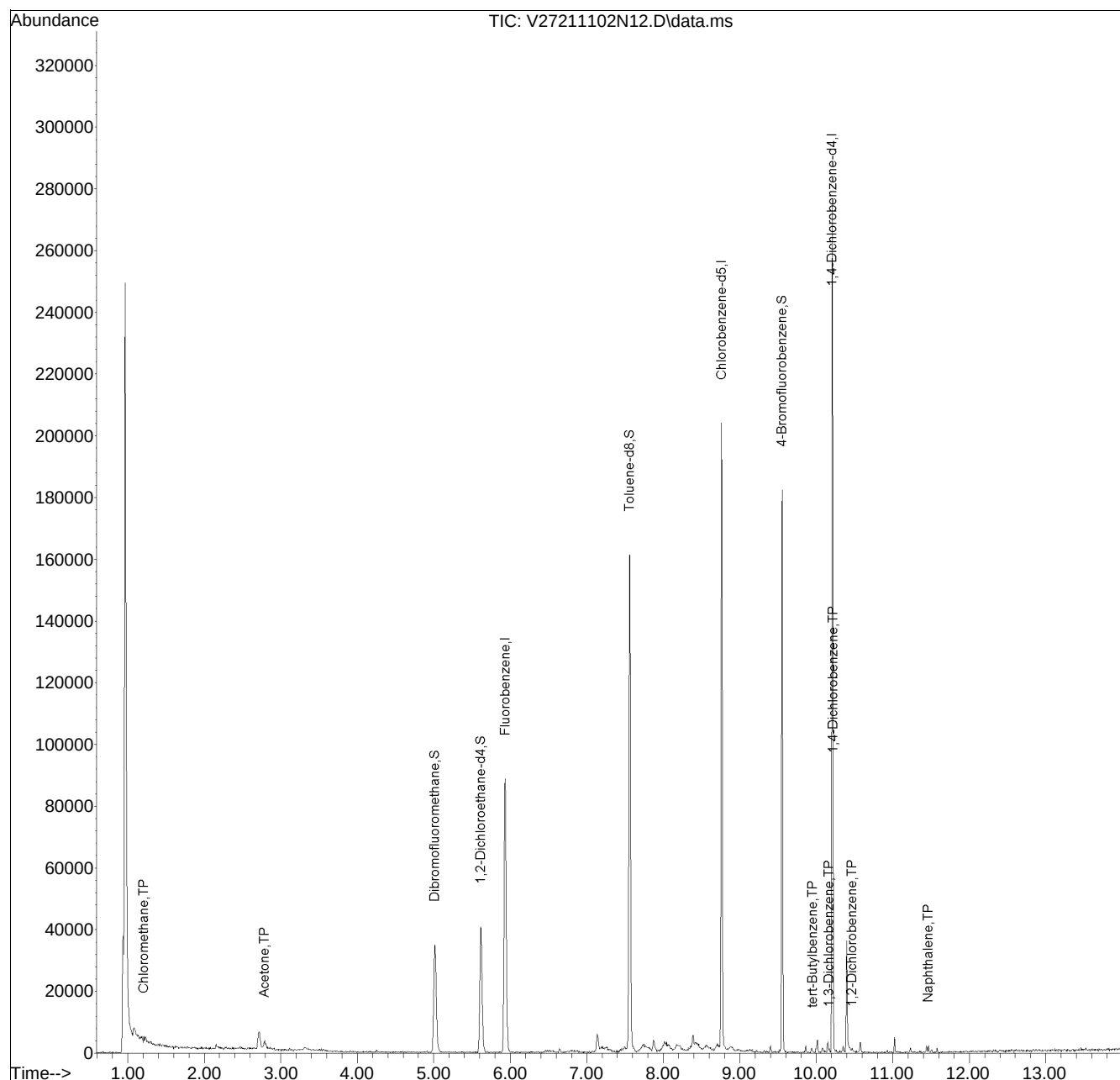
(#) = qualifier out of range (m) = manual integration (+) = signals summed

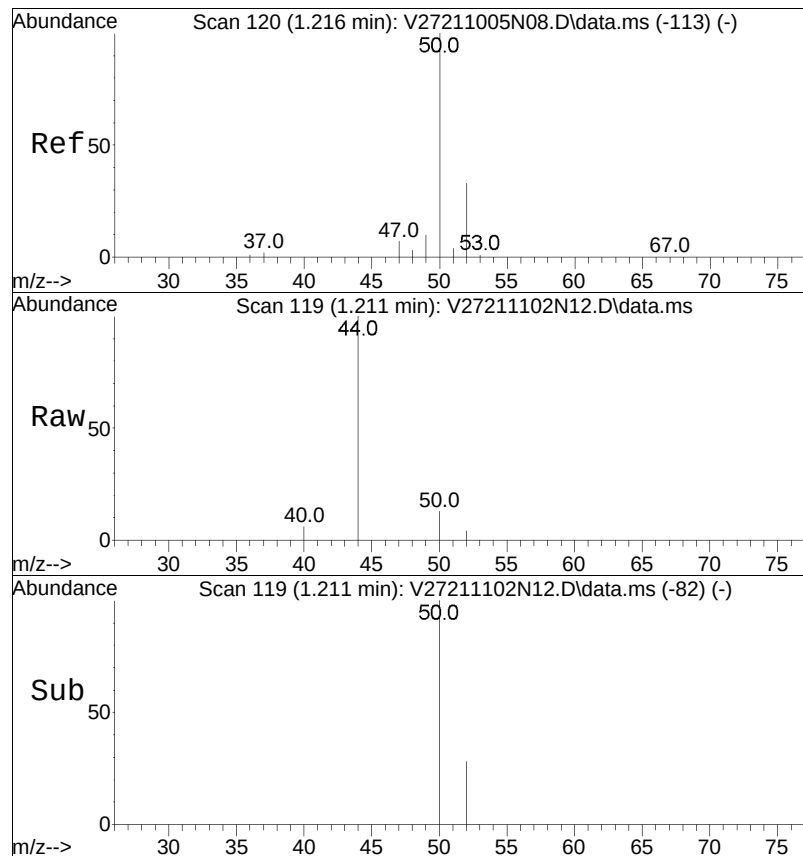
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N12.D
 Acq On : 02 Nov 2021 08:03 pm
 Operator : VOA127:AJK
 Sample : L2159098-02,31,3.15,5,,Y,PRI
 Misc : WG1566511,ICAL18360
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 02 22:32:46 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

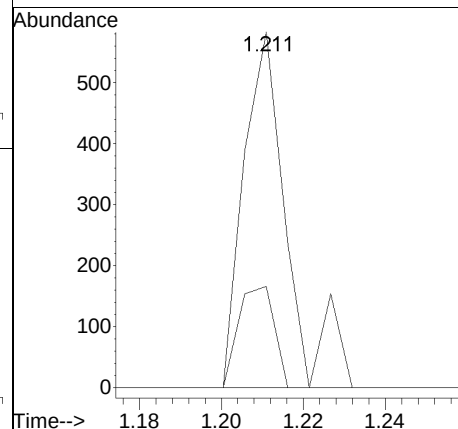
Sub List : 8260-NYTCL - Megamix plus Diox11102N\V27211102N02.D•

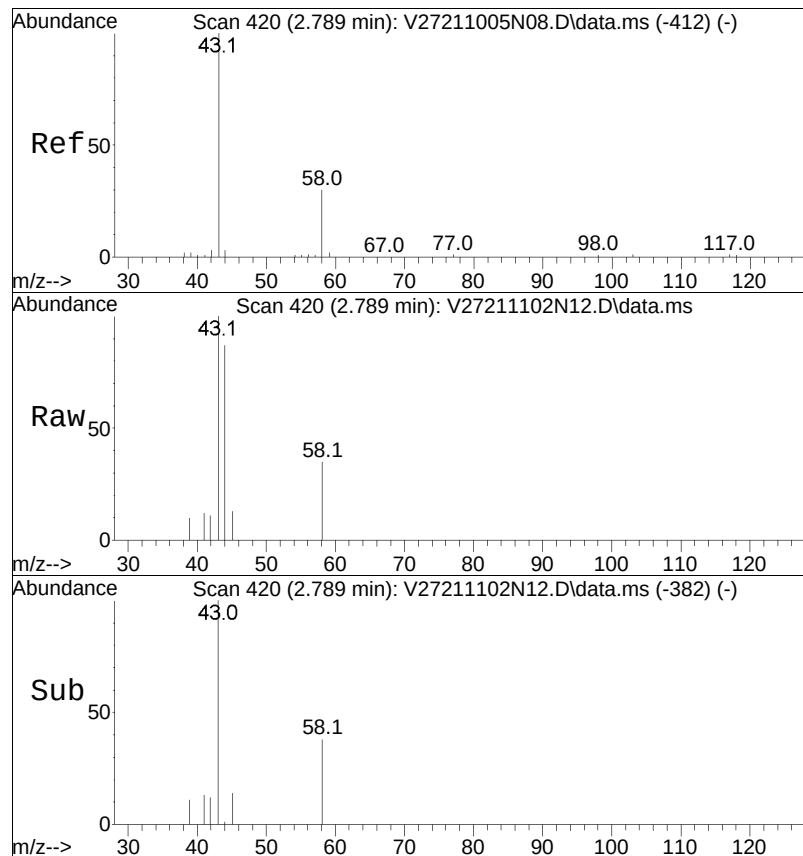




#3
 Chloromethane
 Concen: 0.17 ug/L
 RT: 1.211 min Scan# 119
 Delta R.T. -0.005 min
 Lab File: V27211102N12.D
 Acq: 02 Nov 2021 08:03 pm

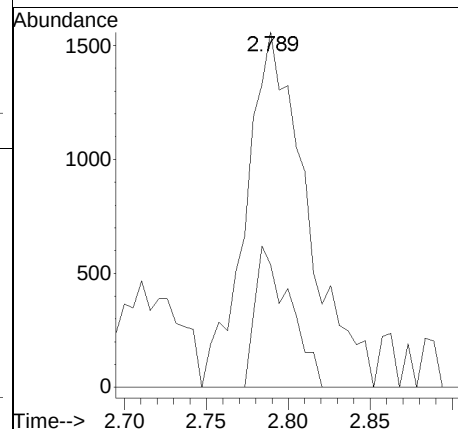
Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.5	12.9	52.9
47	0.0	0.0	28.3

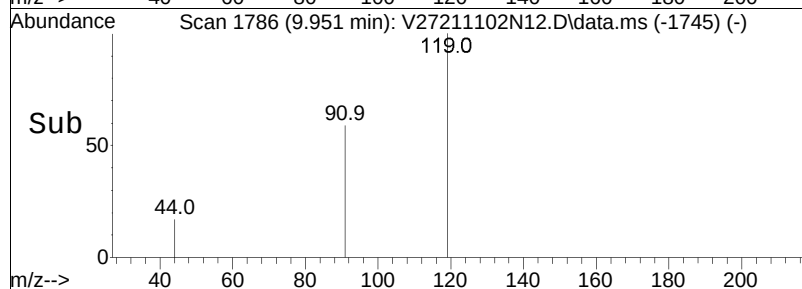
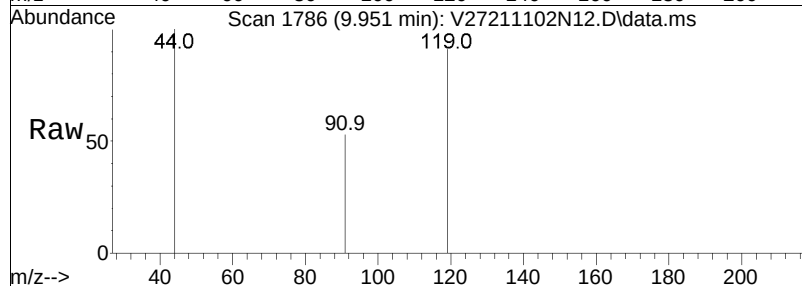
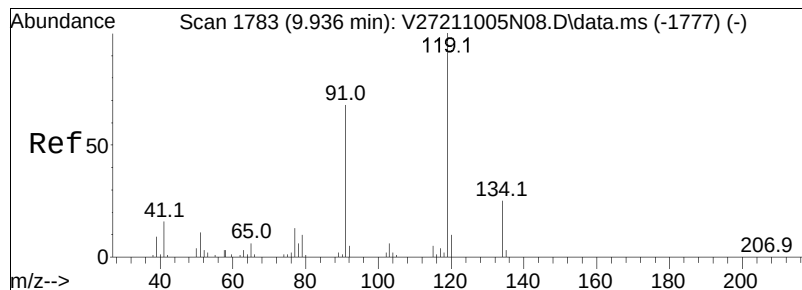




#17
 Acetone
 Concen: 4.87 ug/L
 RT: 2.789 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: V27211102N12.D
 Acq: 02 Nov 2021 08:03 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.6	24.2	36.4#





#94

tert-Butylbenzene

Concen: 0.12 ug/L

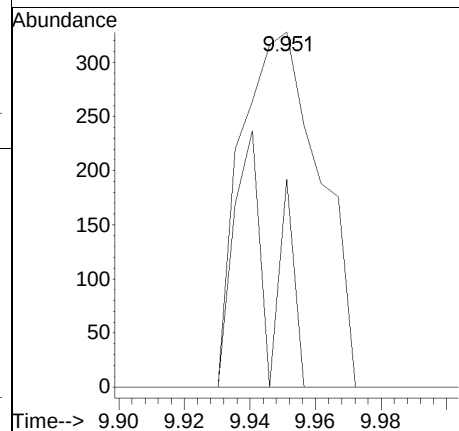
RT: 9.951 min Scan# 1786

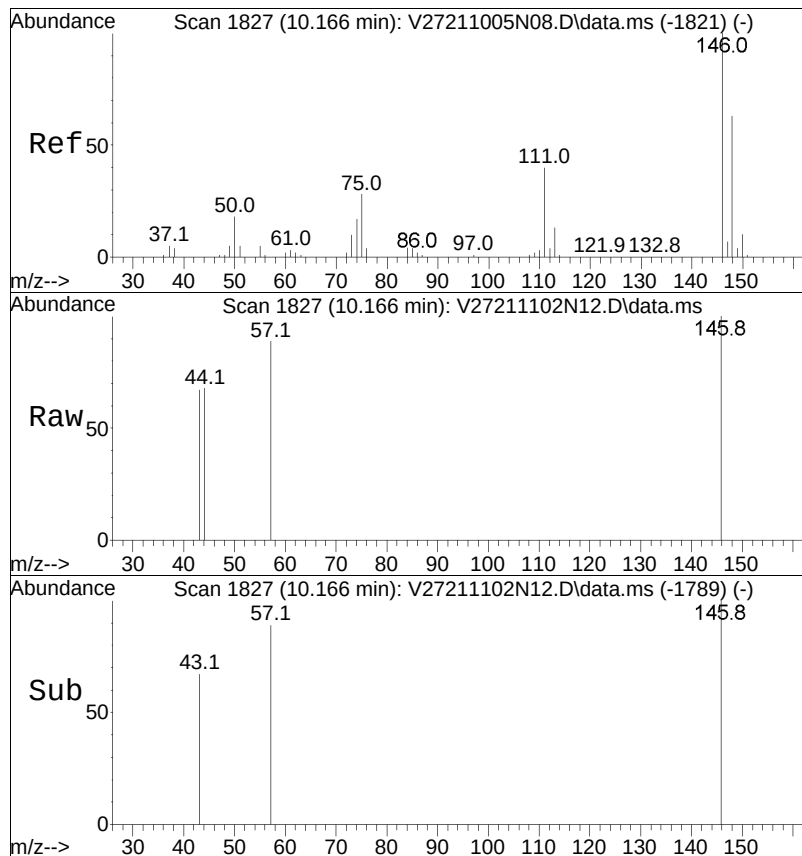
Delta R.T. 0.015 min

Lab File: V27211102N12.D

Acq: 02 Nov 2021 08:03 pm

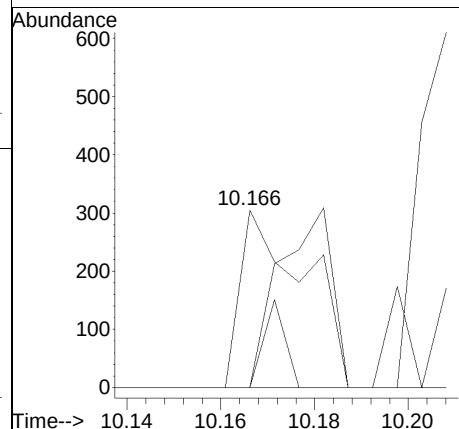
Tgt Ion:	119	Resp:	546
Ion Ratio	Lower	Upper	
119	100		
91	34.4	51.4	77.2#
134	0.0	18.3	27.5#

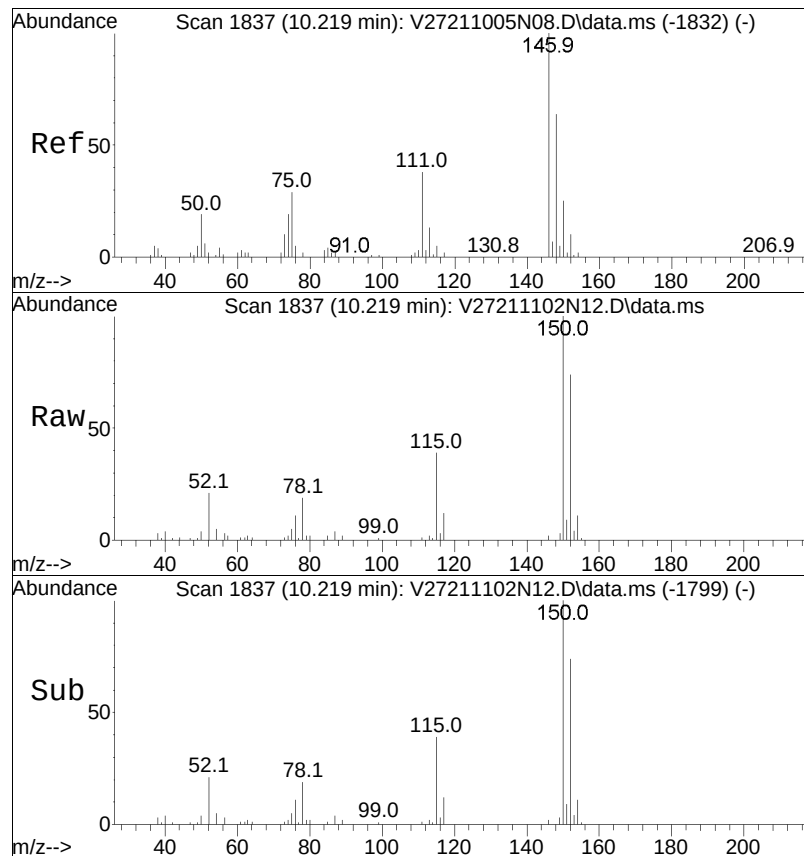




#100
 1,3-Dichlorobenzene
 Concen: 0.10 ug/L
 RT: 10.166 min Scan# 1827
 Delta R.T. 0.000 min
 Lab File: V27211102N12.D
 Acq: 02 Nov 2021 08:03 pm

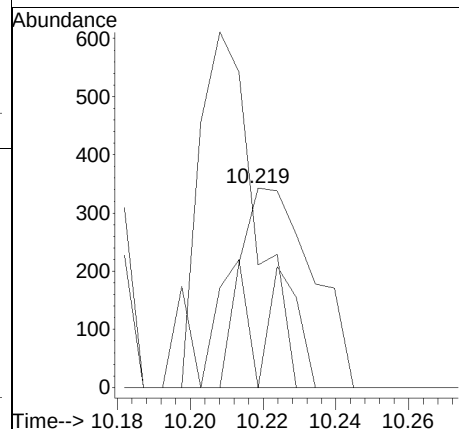
Tgt Ion:	146	Resp:	293
Ion Ratio	Lower	Upper	
146	100		
111	16.0	27.5	57.1#
148	81.6	41.9	86.9

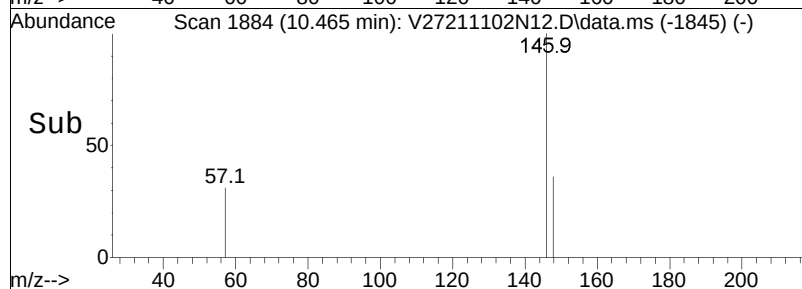
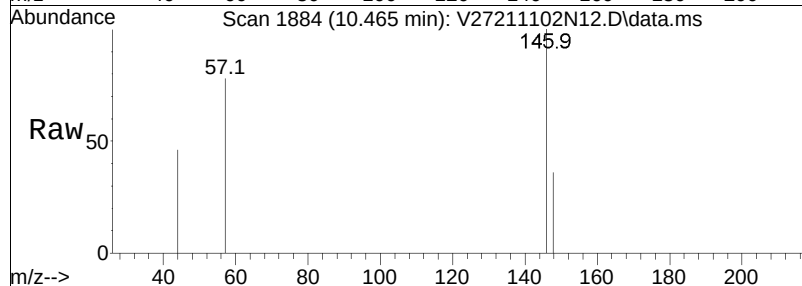
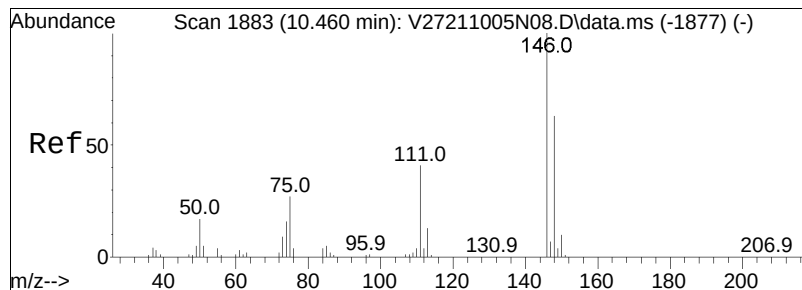




#101
 1,4-Dichlorobenzene
 Concen: 0.15 ug/L
 RT: 10.219 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: V27211102N12.D
 Acq: 02 Nov 2021 08:03 pm

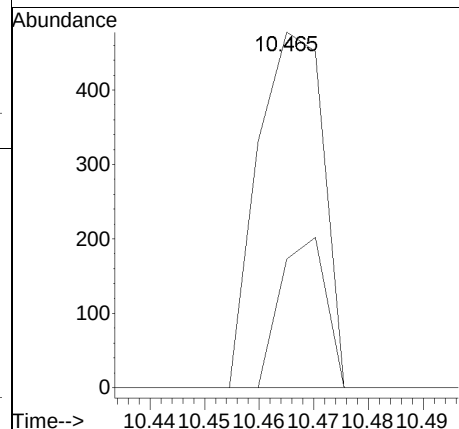
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	474		
111	0.0	32.3	48.5#	
148	24.1	49.9	74.9#	

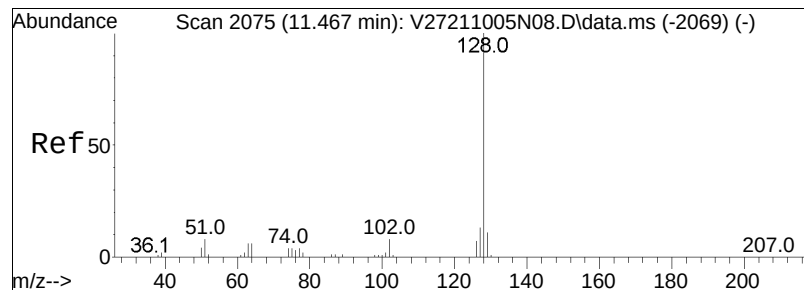




#104
 1,2-Dichlorobenzene
 Concen: 0.14 ug/L
 RT: 10.465 min Scan# 1884
 Delta R.T. 0.005 min
 Lab File: V27211102N12.D
 Acq: 02 Nov 2021 08:03 pm

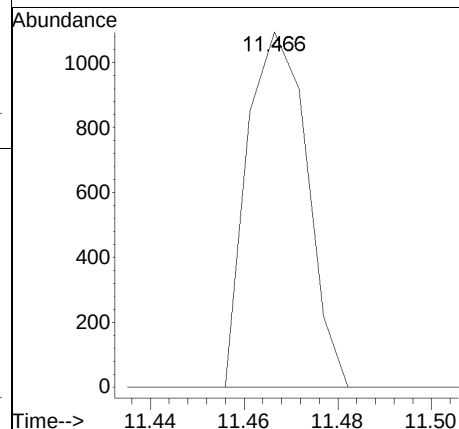
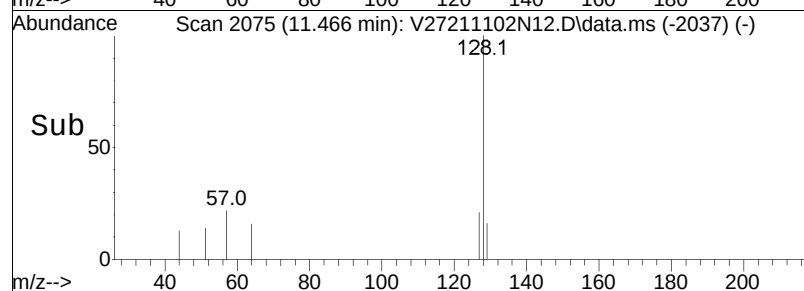
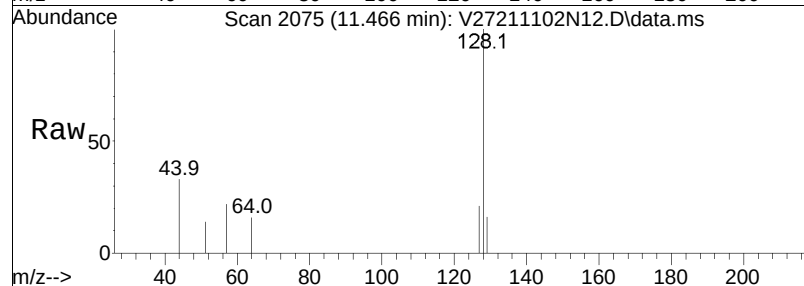
Tgt	Ion	Ratio	Lower	Upper
146	100			
111	0.0	28.3	58.7#	
148	29.7	42.3	87.8#	





#110
Naphthalene
Concen: 0.18 ug/L
RT: 11.466 min Scan# 2075
Delta R.T. -0.001 min
Lab File: V27211102N12.D
Acq: 02 Nov 2021 08:03 pm

Tgt Ion:128 Resp: 970



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\2QMethod : V127_211005N_8260.m
Data File : V27211102N12.D Operator : VOA127:AJK
Date Inj'd : 11/2/2021 8:03 pm Instrument : VOA127
Sample : L2159098-02,31,3.15,5,,Y,PQuant Date : 11/2/2021 10:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A05.D
 Acq On : 06 Nov 2021 07:45 am
 Operator : VOA123:MV
 Sample : l2159098-11,31,2.55,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 04:05:43 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.729	96	195589	20.000	ug/L	0.00
Standard Area 1 = 207736			Recovery =	94.15%		
59) Chlorobenzene-d5	9.231	117	148353	20.000	ug/L	0.00
Standard Area 1 = 157233			Recovery =	94.35%		
79) 1,4-Dichlorobenzene-d4	11.999	152	74652	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery =	81.97%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	55561	20.846	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.23%		
43) 1,2-Dichloroethane-d4	5.446	65	49146	20.954	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.77%		
60) Toluene-d8	7.407	98	197159	21.480	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.40%		
83) 4-Bromofluorobenzene	10.762	95	62335	21.878	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	109.39%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.702	50	53	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	3.285	84	934	0.333	ug/L	86
17) Acetone	3.333	43	2439	4.157	ug/L #	77
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A05.D
 Acq On : 06 Nov 2021 07:45 am
 Operator : VOA123:MV
 Sample : l2159098-11,31,2.55,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 04:05:43 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.459	92	323		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.231	91	180		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.762	91	125		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A05.D
 Acq On : 06 Nov 2021 07:45 am
 Operator : VOA123:MV
 Sample : l2159098-11,31,2.55,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 04:05:43 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.010	146	50		N.D.	
101)	1,4-Dichlorobenzene	12.010	146	50		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	13.861	180	55		N.D.	
110)	Naphthalene	14.160	128	624		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

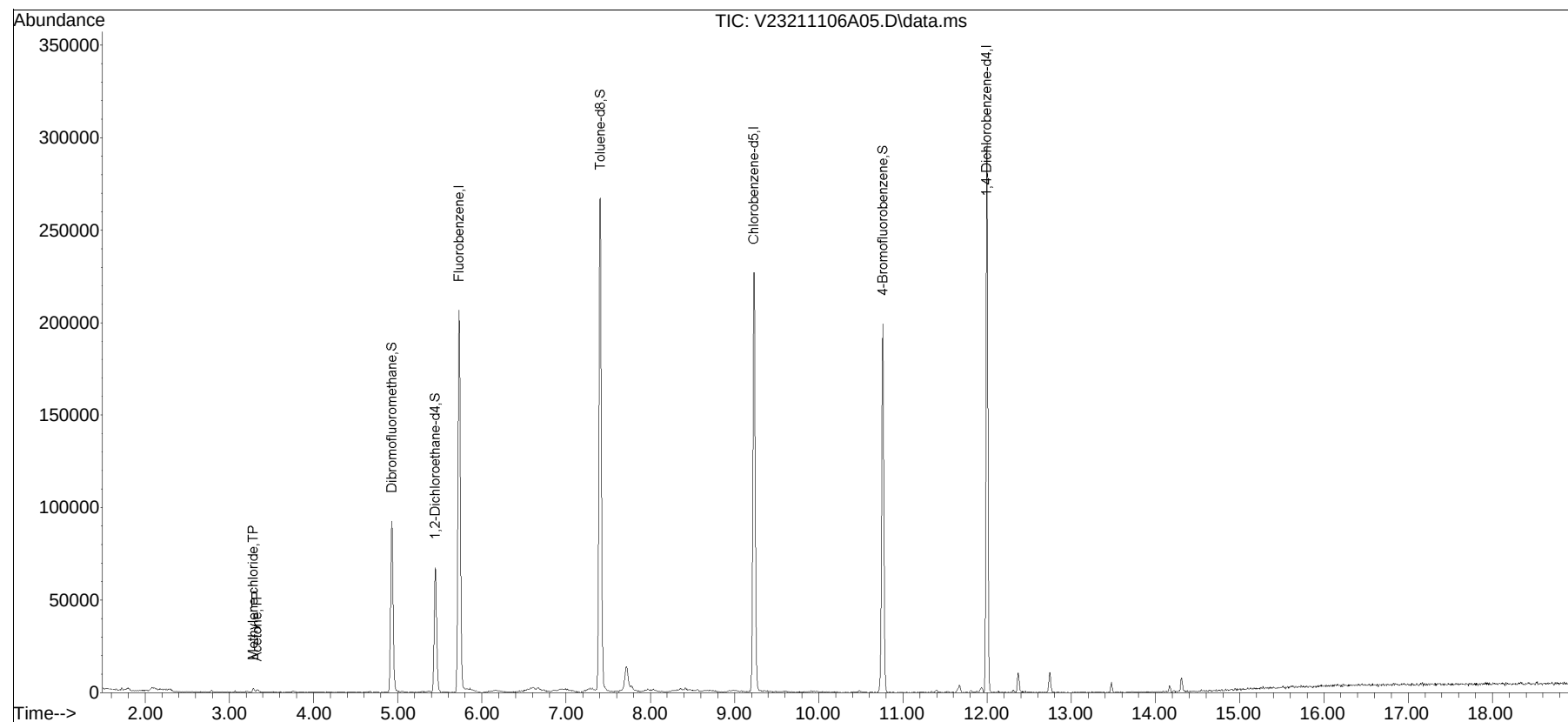
(#) = qualifier out of range (m) = manual integration (+) = signals summed

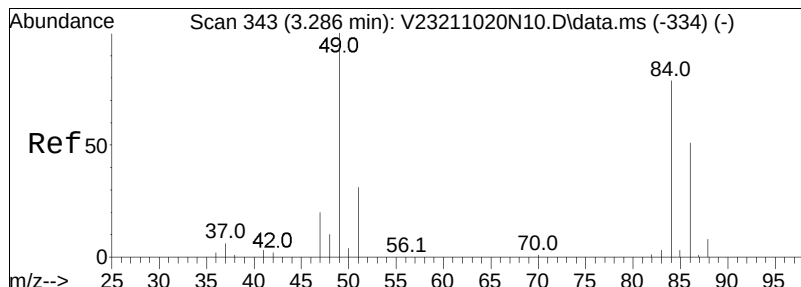
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A05.D
 Acq On : 06 Nov 2021 07:45 am
 Operator : VOA123:MV
 Sample : l2159098-11,31,2.55,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 04:05:43 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

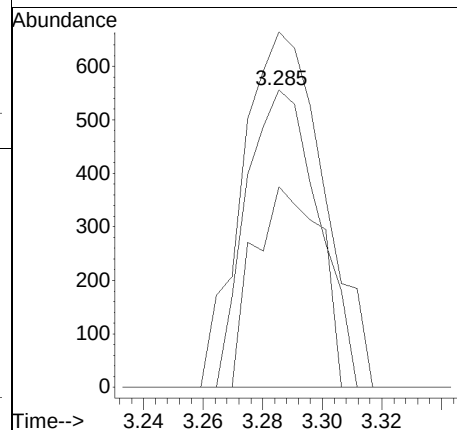
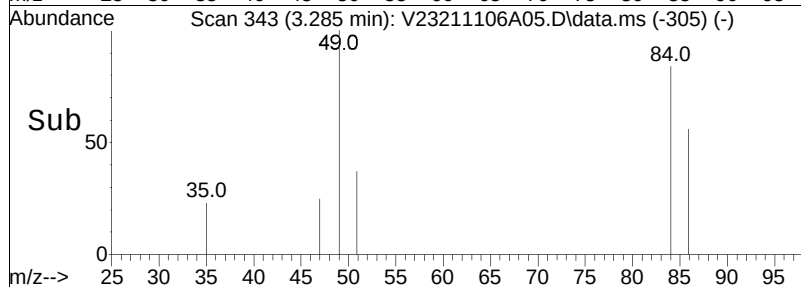
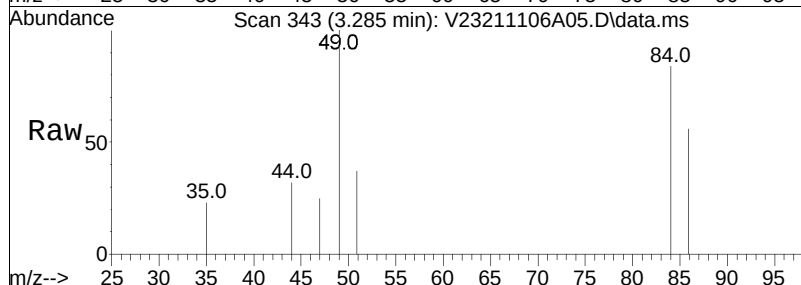
Sub List : 8260-NYTCL - Megamix plus Diox11106A\V23211106A01.D•

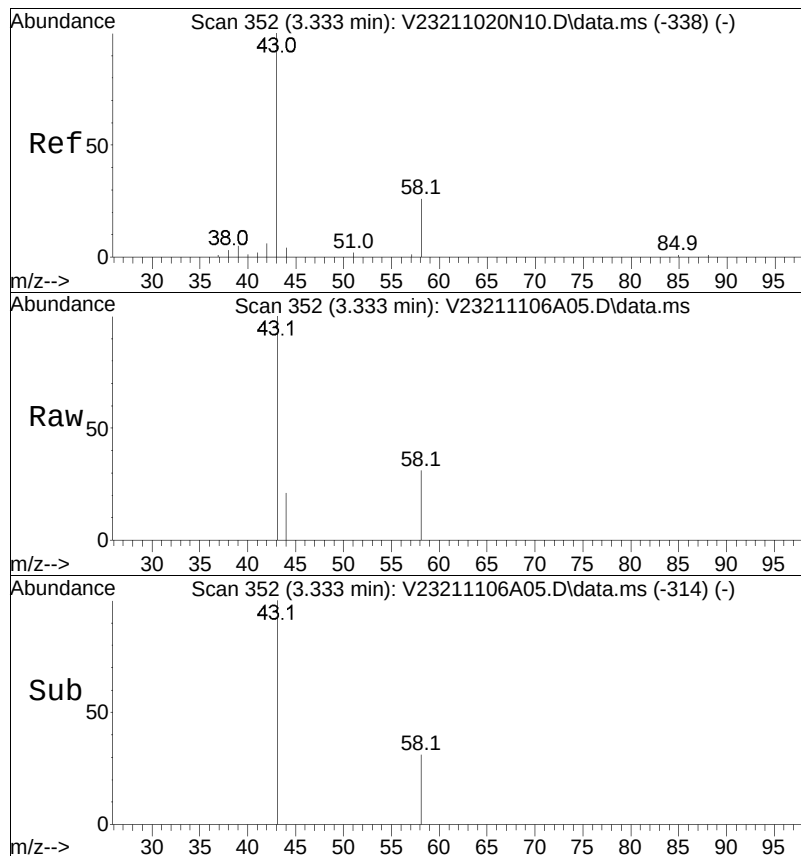




#15
Methylene chloride
Concen: 0.33 ug/L
RT: 3.285 min Scan# 343
Delta R.T. -0.001 min
Lab File: V23211106A05.D
Acq: 06 Nov 2021 07:45 am

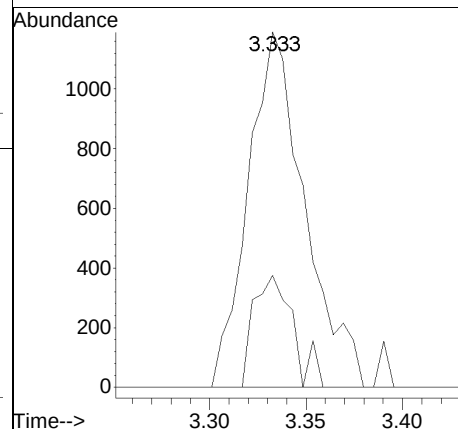
Tgt Ion	Ratio	Lower	Upper
84	100		
86	62.3	42.0	87.2
49	135.7	74.0	153.6





#17
 Acetone
 Concen: 4.16 ug/L
 RT: 3.333 min Scan# 352
 Delta R.T. -0.000 min
 Lab File: V23211106A05.D
 Acq: 06 Nov 2021 07:45 am

Tgt Ion	Ratio	Lower	Upper
43	100		
58	21.8	28.2	42.4#



Manual Integration Report

Data Path : I:\VOLATILES\VOA123\2021\20Method : V123_211020N_8260.m
Data File : V23211106A05.D Operator : VOA123:MV
Date Inj'd : 11/6/2021 7:45 am Instrument : VOA 123
Sample : l2159098-11,31,2.55,5,,y,pQuant Date : 11/6/2021 9:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A06.D
 Acq On : 06 Nov 2021 08:10 am
 Operator : VOA123:MV
 Sample : l2159098-12,31,5.54,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 04:05:59 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.729	96	177609	20.000	ug/L	0.00
Standard Area 1 = 207736			Recovery =	85.50%		
59) Chlorobenzene-d5	9.231	117	137557	20.000	ug/L	0.00
Standard Area 1 = 157233			Recovery =	87.49%		
79) 1,4-Dichlorobenzene-d4	11.999	152	70274	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery =	77.17%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.926	113	50684	20.941	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.71%		
43) 1,2-Dichloroethane-d4	5.445	65	45452	21.341	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.71%		
60) Toluene-d8	7.401	98	180478	21.206	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.03%		
83) 4-Bromofluorobenzene	10.762	95	57274	21.354	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.77%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.702	50	49	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	3.285	84	1170	0.460	ug/L	87
17) Acetone	3.327	43	2592	5.119	ug/L #	80
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A06.D
 Acq On : 06 Nov 2021 08:10 am
 Operator : VOA123:MV
 Sample : l2159098-12,31,5.54,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 04:05:59 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.464	92	431		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.299	91	57		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	d
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.757	91	163		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A06.D
 Acq On : 06 Nov 2021 08:10 am
 Operator : VOA123:MV
 Sample : l2159098-12,31,5.54,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 04:05:59 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.154	128	278		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

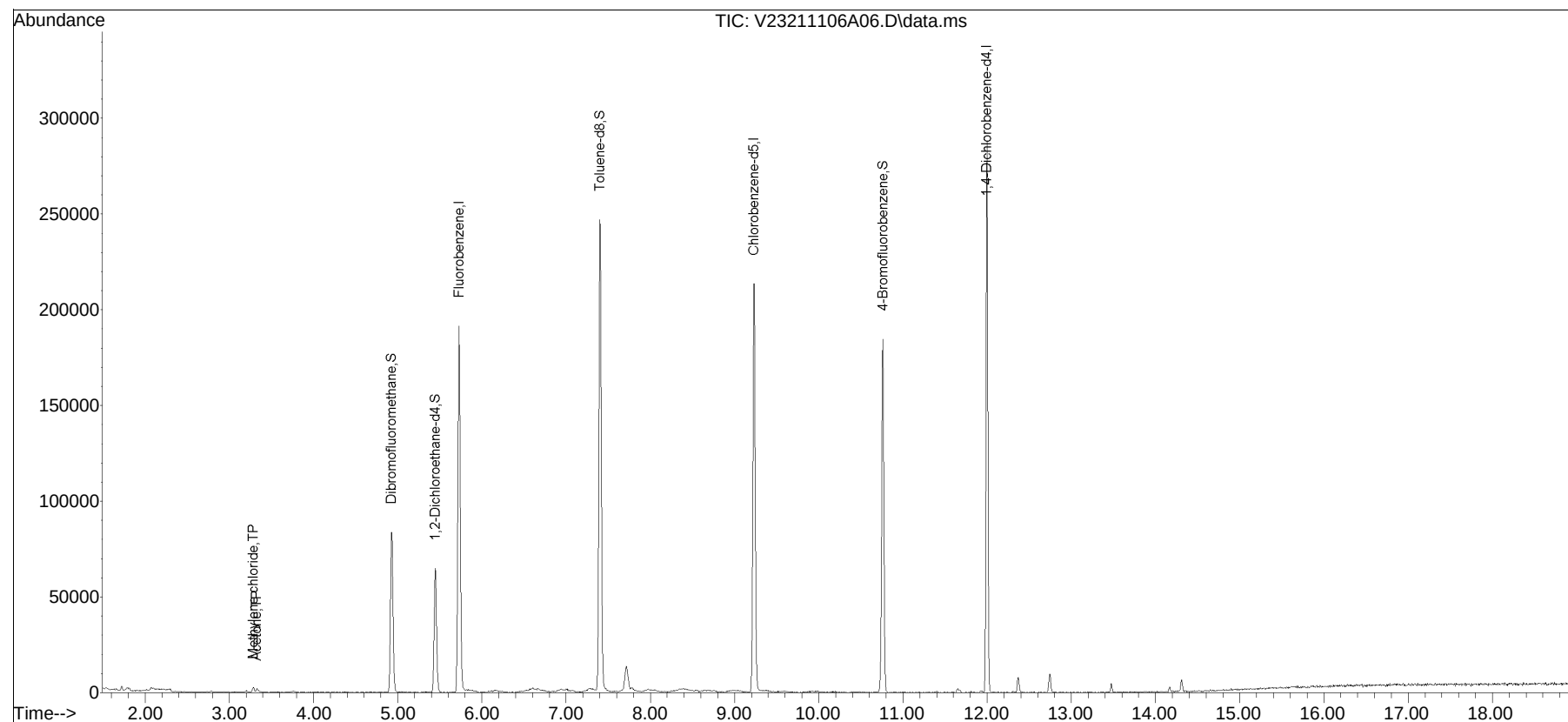
(#) = qualifier out of range (m) = manual integration (+) = signals summed

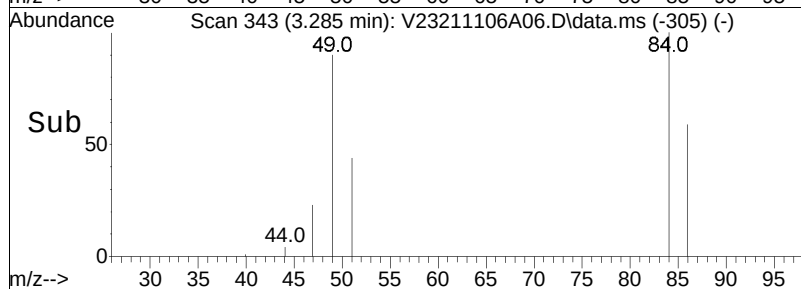
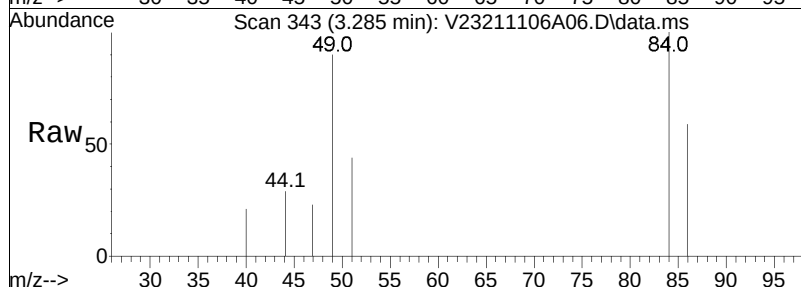
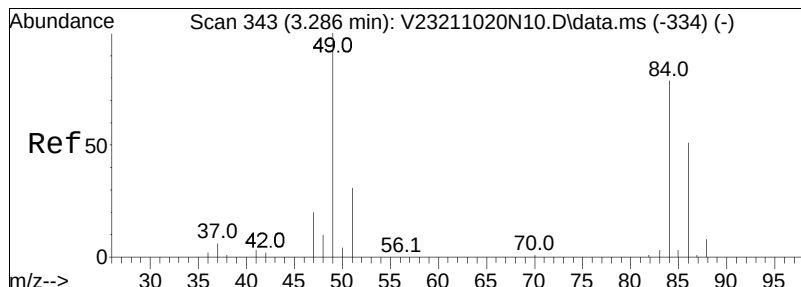
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A06.D
 Acq On : 06 Nov 2021 08:10 am
 Operator : VOA123:MV
 Sample : l2159098-12,31,5.54,5,,y,pri
 Misc : WG1568305,ICAL18401
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 04:05:59 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox11106A\V23211106A01.D•





#15

Methylene chloride

Concen: 0.46 ug/L

RT: 3.285 min Scan# 343

Delta R.T. -0.001 min

Lab File: V23211106A06.D

Acq: 06 Nov 2021 08:10 am

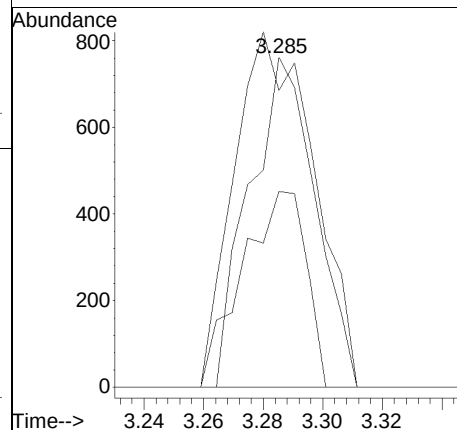
Tgt Ion: 84 Resp: 1170

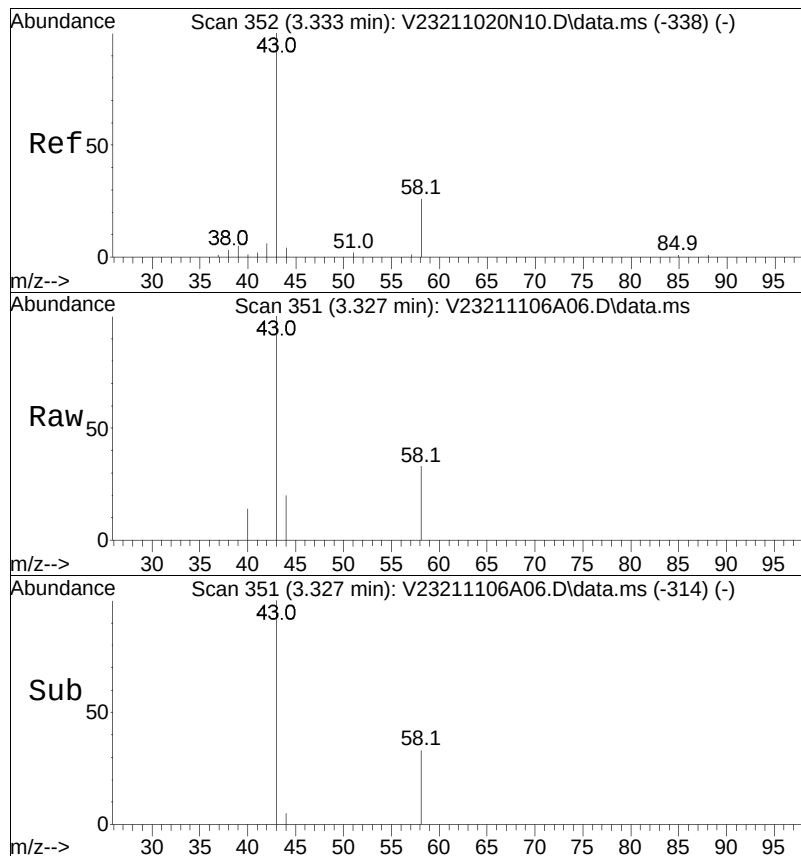
Ion Ratio Lower Upper

84 100

86 57.8 42.0 87.2

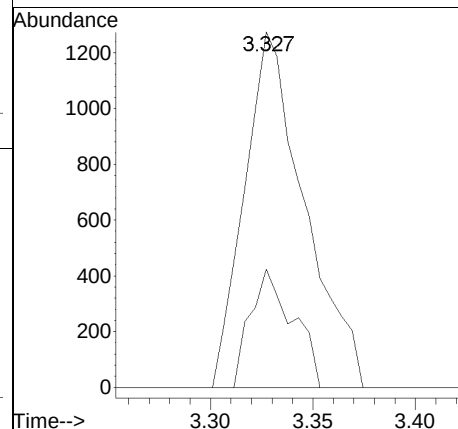
49 129.8 74.0 153.6





#17
 Acetone
 Concen: 5.12 ug/L
 RT: 3.327 min Scan# 351
 Delta R.T. -0.006 min
 Lab File: V23211106A06.D
 Acq: 06 Nov 2021 08:10 am

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.7	28.2	42.4#



Manual Integration Report

Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211106A06.D Operator : VOA123:MV
Date Inj'd : 11/6/2021 8:10 am Instrument : VOA 123
Sample : l2159098-12,31,5.54,5,,y,pQuant Date : 11/6/2021 9:44 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Calibration dates : 10/05/21 20:25 10/05/21 23:08

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18360

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----										
2) TP Dichlorodifluoromethane	0.365	0.349	0.388	0.336	0.342	0.313	0.300	0.275	0.333	10.91	
3) TP Chloromethane	0.863	0.799	0.791	0.659	0.661	0.599	0.555	0.507	0.679	18.68	
4) TC Vinyl chloride	0.342	0.407	0.454	0.395	0.395	0.368	0.351	0.327	0.380	10.85	
5) TP Bromomethane	0.285	0.254	0.192	0.193	0.178	0.167	0.157	*L		0.9967	
6) TP Chloroethane	0.288	0.325	0.301	0.232	0.232	0.208			0.264	17.57	
7) TP Trichlorofluoromethane	0.423	0.442	0.486	0.434	0.447	0.411	0.386	0.349	0.422	9.86	
8) TP Ethyl ether	0.171	0.206	0.166	0.162	0.171	0.162	0.164	0.162	0.170	8.79	
10) TC 1,1-Dichloroethene	0.319	0.298	0.346	0.257	0.271	0.251	0.240	0.225	0.276	15.07	
11) TP Carbon disulfide	0.854	0.891	0.934	0.827	0.844	0.773	0.742	0.693	0.820	9.69	
12) TP Freon-113	0.193	0.219	0.244	0.231	0.240	0.232	0.229	0.215	0.225	7.21	
15) TP Methylene chloride	0.635	0.456	0.344	0.329	0.301	0.286	0.273	*L		0.9980	
17) TP Acetone	0.355	0.258	0.143	0.128	0.129	0.132		*L		0.9984	
18) TP trans-1,2-Dichloroethene	0.420	0.344	0.319	0.291	0.285	0.278	0.270	0.259	0.308	17.14	
19) TP Methyl acetate	0.316	0.254	0.239	0.215	0.223	0.220	0.245			15.57	
20) TP Methyl tert-butyl ether	0.727	0.617	0.668	0.664	0.723	0.732	0.769	0.753	0.707	7.32	
21) TP tert-Butyl alcohol	0.058	0.059	0.047	0.046	0.040	0.041	0.040	0.047#		17.25	
22) TP Diisopropyl ether	0.850	0.848	0.906	0.918	0.965	0.991	1.016	0.989	0.935	6.93	
23) TP 1,1-Dichloroethane	0.733	0.724	0.727	0.624	0.619	0.591	0.565	0.547	0.641	11.84	
24) TP Halothane	0.226	0.202	0.213	0.206	0.205	0.196	0.208			5.03	
25) TP Acrylonitrile	0.170	0.150	0.141	0.134	0.120	0.119	0.120	0.137		14.06	
26) TP Ethyl tert-butyl ether	0.731	0.742	0.812	0.806	0.874	0.910	0.955	0.931	0.845	10.04	
27) TP Vinyl acetate	0.639	0.605	0.608	0.665	0.731	0.731	0.752	0.750	0.685	9.20	
28) TP cis-1,2-Dichloroethene	0.442	0.393	0.401	0.339	0.345	0.327	0.319	0.309	0.359	13.11	
29) TP 2,2-Dichloropropane	0.527	0.511	0.520	0.460	0.472	0.447	0.438	0.419	0.474	8.56	
30) TP Bromochloromethane	0.201	0.210	0.214	0.170	0.170	0.152	0.145	0.137	0.175	17.11	
31) TP Cyclohexane	0.460	0.467	0.516	0.530	0.590	0.571	0.565	0.528	0.528	8.88	
32) TC Chloroform	0.691	0.667	0.641	0.546	0.553	0.520	0.514	0.496	0.578	13.15	
33) TP Ethyl acetate	0.344	0.346	0.324	0.305	0.321	0.302	0.319	0.316	0.322	5.01	
34) TP Carbon tetrachloride	0.311	0.343	0.380	0.379	0.400	0.394	0.394	0.374	0.372	8.17	
35) TP Tetrahydrofuran	0.177	0.165	0.114	0.118	0.093	0.103	0.102	*L		0.9972	
36) S Dibromofluoromethane	0.330	0.336	0.320	0.328	0.303	0.294	0.276	0.274	0.278	0.304	8.25
37) TP 1,1,1-Trichloroethane	0.550	0.423	0.429	0.456	0.430	0.458	0.444	0.437	0.419	0.450	8.94
39) TP 2-Butanone	0.247	0.258	0.215	0.195	0.187	0.187	0.194	0.170	0.207	15.03	
40) TP 1,1-Dichloropropene	0.189	0.246	0.258	0.297	0.315	0.359	0.368	0.368	0.351	*L	0.9989
41) TP Benzene	1.112	1.007	1.057	1.055	1.022	1.092	1.091	1.073	1.037	1.061	3.28



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Calibration dates : 10/05/21 20:25 10/05/21 23:08

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18360

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
42) TP tert-Amyl methyl ether		0.598	0.636	0.656	0.642	0.677	0.684	0.722	0.712	0.666	6.20
43) S 1,2-Dichloroethane-d4	0.346	0.352	0.339	0.352	0.337	0.328	0.323	0.323	0.335	0.337	3.37
44) TP 1,2-Dichloroethane		0.403	0.445	0.448	0.419	0.430	0.405	0.406	0.399	0.419	4.67
47) TP Methyl cyclohexane		0.475	0.404	0.449	0.414	0.450	0.448	0.451	0.421	0.439	5.34
48) TP Trichloroethene	0.353	0.250	0.243	0.242	0.250	0.277	0.286	0.283	0.271	0.273	12.67
50) TP Dibromomethane		0.224	0.197	0.210	0.181	0.181	0.171	0.174	0.169	0.188	10.73
51) TC 1,2-Dichloropropane		0.263	0.279	0.283	0.296	0.323	0.321	0.323	0.317	0.301	7.85
54) TP Bromodichloromethane	0.587	0.412	0.379	0.398	0.385	0.399	0.395	0.396	0.390	0.416	15.60
57) TP 1,4-Dioxane		0.004	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.004#	6.45
58) TP cis-1,3-Dichloropropene	0.296	0.350	0.369	0.371	0.402	0.451	0.461	0.472	0.461	0.404	15.22
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.296	1.292	1.304	1.299	1.302	1.315	1.331	1.315	1.315	1.308	0.95
61) TC Toluene		0.894	0.930	0.906	0.854	0.911	0.910	0.888	0.847	0.893	3.24
62) TP 4-Methyl-2-pentanone		0.142	0.144	0.144	0.139	0.148	0.143	0.153	0.151	0.146	3.22
63) TP Tetrachloroethene	0.332	0.267	0.334	0.341	0.336	0.370	0.369	0.368	0.345	0.340	9.26
65) TP trans-1,3-Dichloropropene		0.350	0.370	0.404	0.438	0.491	0.534	0.559	0.550	0.462	17.94
67) TP Ethyl methacrylate		0.617	0.504	0.481	0.417	0.448	0.433	0.441	0.427	0.471	13.95
68) TP 1,1,2-Trichloroethane		0.237	0.212	0.206	0.205	0.235	0.248	0.262	0.257	0.233	9.70
69) TP Chlorodibromomethane	0.296	0.281	0.272	0.278	0.299	0.337	0.367	0.385	0.381	0.322	14.38
70) TP 1,3-Dichloropropane		0.395	0.393	0.416	0.440	0.495	0.525	0.549	0.539	0.469	13.96
71) TP 1,2-Dibromoethane	0.192	0.242	0.230	0.245	0.253	0.286	0.301	0.314	0.309	0.264	15.68
72) TP 2-Hexanone		0.408	0.355	0.313	0.288	0.287	0.289	0.306	0.277	0.315	14.17
73) TP Chlorobenzene	0.989	0.962	0.964	1.007	0.943	1.003	0.983	0.973	0.930	0.973	2.67
74) TC Ethylbenzene		1.641	1.710	1.801	1.693	1.789	1.746	1.689	1.592	1.708	4.15
75) TP 1,1,1,2-Tetrachloroethane	0.260	0.217	0.281	0.265	0.291	0.320	0.343	0.359	0.353	0.299	16.19
76) TP p/m Xylene	0.739	0.720	0.732	0.752	0.686	0.716	0.695	0.665	0.624	0.703	5.76
77) TP o Xylene	0.731	0.686	0.717	0.719	0.657	0.687	0.664	0.635	0.602	0.678	6.25
78) TP Styrene	1.317	1.178	1.196	1.199	1.135	1.178	1.140	1.078	1.010	1.159	7.37
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform		0.281	0.286	0.331	0.344	0.392	0.404	0.455	0.450	0.368	18.48
82) TP Isopropylbenzene		2.740	2.937	3.089	3.041	3.251	3.176	3.201	3.016	3.057	5.39
83) S 4-Bromofluorobenzene	0.939	0.919	0.925	0.927	0.955	0.952	0.950	0.975	0.982	0.947	2.32
84) TP Bromobenzene		0.696	0.726	0.738	0.737	0.771	0.766	0.784	0.758	0.747	3.78
85) TP n-Propylbenzene		3.492	3.542	3.706	3.693	3.951	3.832	3.830	3.552	3.700	4.42
86) TP 1,4-Dichlorobutane		1.260	1.120	1.085	1.142	1.207	1.203	1.282	1.259	1.195	6.06
87) TP 1,1,2,2-Tetrachloroethane	0.834	0.629	0.583	0.560	0.592	0.642	0.634	0.700	0.703	0.653	12.78



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Calibration dates : 10/05/21 20:25 10/05/21 23:08

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18360

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
88) TP 4-Ethyltoluene	3.090	3.130	3.196	3.107	3.333	3.224	3.232	3.005	3.165	3.22	
89) TP 2-Chlorotoluene	2.318	2.224	2.324	2.221	2.383	2.313	2.310	2.187	2.285	2.91	
90) TP 1,3,5-Trimethylbenzene	2.635	2.779	2.897	2.735	2.929	2.834	2.851	2.654	2.789	3.87	
91) TP 1,2,3-Trichloropropane	0.485	0.488	0.473	0.519	0.557	0.545	0.597	0.591	0.532	9.03	
92) TP trans-1,4-Dichloro-2-b...	0.269	0.283	0.255	0.228	0.237	0.228	0.257	0.249	0.251	7.72	
93) TP 4-Chlorotoluene	2.398	2.314	2.421	2.348	2.467	2.381	2.409	2.278	2.377	2.56	
94) TP tert-Butylbenzene	2.007	2.246	2.288	2.291	2.425	2.384	2.407	2.247	2.287	5.84	
97) TP 1,2,4-Trimethylbenzene	2.787	2.780	2.822	2.742	2.935	2.814	2.817	2.644	2.793	2.94	
98) TP sec-Butylbenzene	3.223	3.315	3.481	3.421	3.644	3.518	3.529	3.262	3.424	4.27	
99) TP p-Isopropyltoluene	2.697	2.894	3.106	3.008	3.218	3.110	3.136	2.895	3.008	5.67	
100) TP 1,3-Dichlorobenzene	1.381	1.502	1.589	1.490	1.583	1.528	1.544	1.452	1.509	4.57	
101) TP 1,4-Dichlorobenzene	1.507	1.536	1.534	1.511	1.571	1.535	1.561	1.466	1.528	2.16	
102) TP p-Diethylbenzene	1.632	1.734	1.857	1.798	1.920	1.863	1.875	1.738	1.802	5.30	
103) TP n-Butylbenzene	2.222	2.561	2.692	2.658	2.800	2.762	2.759	2.530	2.623	7.19	
104) TP 1,2-Dichlorobenzene	1.471	1.451	1.446	1.430	1.487	1.445	1.465	1.383	1.447	2.18	
105) TP 1,2,4,5-Tetramethylben...	2.590	2.802	2.754	2.704	2.819	2.586	2.704	2.663	2.703	3.25	
106) TP 1,2-Dibromo-3-chloropr...	0.122	0.112	0.137	0.122	0.129	0.123	0.133	0.130	0.126	6.37	
107) TP 1,3,5-Trichlorobenzene	1.047	1.112	1.156	1.114	1.159	1.109	1.130	1.082	1.114	3.32	
108) TP Hexachlorobutadiene	0.462	0.516	0.552	0.505	0.546	0.530	0.541	0.522	0.522	5.54	
109) TP 1,2,4-Trichlorobenzene	1.036	1.045	1.087	1.061	1.101	1.040	1.077	1.031	1.060	2.45	
110) TP Naphthalene	2.765	2.684	2.681	2.520	2.662	2.512	2.634	2.572	2.629	3.34	
111) TP 1,2,3-Trichlorobenzene	1.016	1.006	1.023	0.998	1.036	0.972	1.012	0.980	1.006	2.13	

Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Calibration dates : 10/20/21 20:51 10/21/21 00:36

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18401

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----										
2) TP Dichlorodifluoromethane	0.232	0.285	0.263	0.296	0.275	0.282	0.285		0.295	0.277	7.58
3) TP Chloromethane	0.237	0.279	0.262	0.268	0.248	0.255	0.257		0.308	0.264	8.25
4) TC Vinyl chloride	0.234	0.303	0.291	0.307	0.284	0.284	0.284		0.318	0.288	8.81
5) TP Bromomethane	0.225	0.257	0.252	0.264	0.252	0.263	0.266		0.283	0.258	6.48
6) TP Chloroethane	0.170	0.214	0.210	0.223	0.227	0.244	0.226		0.230	0.218	10.04
7) TP Trichlorofluoromethane	0.426	0.550	0.509	0.573	0.560	0.603	0.620		0.555	0.550	10.96
8) TP Ethyl ether	0.113	0.133	0.135	0.138	0.130	0.135	0.134		0.138	0.132	6.14
10) TC 1,1-Dichloroethene	0.176	0.226	0.216	0.232	0.224	0.233	0.237		0.232	0.222	8.87
11) TP Carbon disulfide	0.749	0.695	0.639	0.692	0.665	0.690	0.694		0.794	0.702	6.89
12) TP Freon-113	0.174	0.235	0.216	0.245	0.235	0.244	0.246		0.232	0.228	10.56
14) TP Acrolein		0.021	0.022	0.023	0.022	0.023	0.023		0.020	0.022#	4.68
15) TP Methylene chloride		0.340	0.298	0.283	0.262	0.270	0.266			0.286	10.26
17) TP Acetone		0.062	0.052	0.051	0.045	0.042	0.045		0.067	*L	0.9969
18) TP trans-1,2-Dichloroethene	0.217	0.262	0.259	0.269	0.259	0.271	0.271		0.264	0.259	6.84
19) TP Methyl acetate	0.148	0.126	0.121	0.126	0.118	0.123	0.122		0.141	0.128	8.24
20) TP Methyl tert-butyl ether	0.586	0.625	0.645	0.683	0.648	0.667	0.665		0.628	0.644	4.74
21) TP tert-Butyl alcohol	0.016	0.018	0.018	0.020	0.019	0.019	0.019		0.019	0.019#	6.64
22) TP Diisopropyl ether	0.634	0.721	0.766	0.795	0.765	0.792	0.789		0.742	0.751	7.15
23) TP 1,1-Dichloroethane	0.403	0.449	0.458	0.471	0.451	0.461	0.460		0.484	0.455	5.18
24) TP Halothane	0.139	0.196	0.189	0.206	0.202	0.209	0.210		0.208	0.195	12.14
25) TP Acrylonitrile	0.054	0.057	0.059	0.065	0.060	0.061	0.061		0.053	0.059	6.91
26) TP Ethyl tert-butyl ether	0.583	0.656	0.703	0.731	0.711	0.738	0.744		0.664	0.691	7.89
27) TP Vinyl acetate	0.382	0.455	0.505	0.524	0.497	0.500	0.497		0.461	0.478	9.40
28) TP cis-1,2-Dichloroethene	0.253	0.297	0.298	0.307	0.297	0.305	0.305		0.299	0.295	5.98
29) TP 2,2-Dichloropropane	0.294	0.372	0.363	0.394	0.384	0.399	0.399		0.367	0.372	9.22
30) TP Bromochloromethane	0.126	0.152	0.150	0.156	0.147	0.153	0.153		0.160	0.150	6.80
31) TP Cyclohexane	0.260	0.338	0.340	0.389	0.378	0.394	0.396		0.360	0.357	12.68
32) TC Chloroform	0.474	0.498	0.495	0.512	0.487	0.498	0.495		0.561	0.503	5.16
33) TP Ethyl acetate	0.176	0.172	0.186	0.205	0.190	0.194	0.192		0.193	0.188	5.53
34) TP Carbon tetrachloride	0.284	0.356	0.360	0.412	0.408	0.430	0.429		0.376	0.382	12.88
35) TP Tetrahydrofuran	0.063	0.062	0.067	0.073	0.066	0.067	0.066		0.067	0.066	4.98
36) S Dibromofluoromethane	0.271	0.273	0.272	0.274	0.271	0.269	0.272	0.276	0.275	0.273	0.76
37) TP 1,1,1-Trichloroethane	0.307	0.404	0.400	0.443	0.434	0.446	0.444	0.322	0.431	0.403	13.17
39) TP 2-Butanone	0.082	0.084	0.085	0.087	0.082	0.082	0.081		0.079	0.083#	3.10
40) TP 1,1-Dichloropropene	0.235	0.324	0.318	0.357	0.345	0.353	0.351	0.259	0.335	0.320	13.67



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Calibration dates : 10/20/21 20:51 10/21/21 00:36

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18401

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
41) TP Benzene	0.837	0.988	1.018	1.064	1.018	1.040	1.032	0.878	1.048	0.992	8.04
42) TP tert-Amyl methyl ether	0.533	0.604	0.649	0.695	0.670	0.696	0.693		0.616	0.644	8.95
43) S 1,2-Dichloroethane-d4	0.241	0.232	0.235	0.240	0.238	0.239	0.246	0.245	0.242	0.240	1.86
44) TP 1,2-Dichloroethane	0.307	0.329	0.336	0.350	0.324	0.332	0.330		0.347	0.332	4.06
47) TP Methyl cyclohexane	0.288	0.371	0.386	0.434	0.427	0.449	0.455		0.379	0.399	13.84
48) TP Trichloroethene	0.220	0.271	0.272	0.296	0.287	0.305	0.310	0.228	0.276	0.274	11.47
50) TP Dibromomethane	0.137	0.157	0.163	0.172	0.164	0.170	0.169		0.163	0.162	6.96
51) TC 1,2-Dichloropropane	0.217	0.258	0.261	0.270	0.258	0.264	0.264		0.257	0.256	6.42
53) TP 2-Chloroethyl vinyl ether		0.100	0.119	0.141	0.134	0.138	0.138		0.120	0.127	11.70
54) TP Bromodichloromethane	0.305	0.345	0.375	0.400	0.386	0.402	0.401	0.282	0.353	0.361	12.07
57) TP 1,4-Dioxane	0.001	0.002	0.002	0.002	0.002	0.002	0.002		0.002	0.002#	13.73
58) TP cis-1,3-Dichloropropene	0.323	0.374	0.413	0.438	0.432	0.448	0.448	0.330	0.367	0.397	12.55
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.262	1.256	1.263	1.253	1.220	1.198	1.181	1.255	1.248	1.237	2.43
61) TC Toluene	0.709	0.793	0.824	0.856	0.830	0.839	0.818		0.821	0.811	5.57
62) TP 4-Methyl-2-pentanone	0.060	0.077	0.085	0.095	0.090	0.092	0.090		0.081	0.084#	13.49
63) TP Tetrachloroethene	0.300	0.355	0.367	0.398	0.388	0.396	0.390	0.287	0.380	0.362	11.48
65) TP trans-1,3-Dichloropropene	0.335	0.382	0.457	0.489	0.476	0.484	0.472		0.393	0.436	13.26
67) TP Ethyl methacrylate	0.282	0.293	0.345	0.376	0.364	0.368	0.363		0.301	0.337	11.33
68) TP 1,1,2-Trichloroethane	0.212	0.229	0.237	0.247	0.231	0.232	0.226		0.238	0.232	4.43
69) TP Chlorodibromomethane	0.272	0.311	0.362	0.396	0.387	0.396	0.392	0.264	0.322	*L	0.9996
70) TP 1,3-Dichloropropane	0.407	0.438	0.473	0.488	0.459	0.456	0.441		0.466	0.453	5.44
71) TP 1,2-Dibromoethane	0.228	0.263	0.288	0.307	0.287	0.289	0.281	0.217	0.276	0.271	11.00
72) TP 2-Hexanone	0.120	0.145	0.156	0.172	0.161	0.162	0.157		0.161	0.154	10.12
73) TP Chlorobenzene	0.838	0.965	0.995	1.023	0.992	1.011	0.994	0.779	0.975	0.952	8.88
74) TC Ethylbenzene	1.320	1.491	1.599	1.701	1.643	1.671	1.609		1.585	1.577	7.72
75) TP 1,1,1,2-Tetrachloroethane	0.291	0.329	0.379	0.407	0.401	0.412	0.407	0.283	0.333	0.360	14.40
76) TP p/m Xylene	0.495	0.576	0.633	0.686	0.668	0.700	0.693	0.535	0.608	0.622	11.87
77) TP o Xylene	0.475	0.559	0.618	0.666	0.654	0.683	0.680	0.512	0.582	0.603	12.60
78) TP Styrene	0.754	0.931	1.091	1.175	1.169	1.206	1.173	0.773	0.945	*L	0.9995
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform		0.332	0.370	0.413	0.428	0.465	0.490			0.416	14.11
82) TP Isopropylbenzene	2.149	2.668	2.849	2.998	2.905	2.973	2.905		2.807	2.782	9.91
83) S 4-Bromofluorobenzene	0.770	0.778	0.761	0.765	0.752	0.733	0.733	0.800	0.777	0.763	2.83
84) TP Bromobenzene	0.651	0.767	0.778	0.795	0.760	0.787	0.792		0.799	0.766	6.31
85) TP n-Propylbenzene	2.671	3.268	3.356	3.534	3.412	3.472	3.368		3.403	3.311	8.16



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Calibration dates : 10/20/21 20:51 10/21/21 00:36

Lab Number : L2159098
 Project Number : 48122
 Ical Ref : ICAL18401

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
86) TP 1,4-Dichlorobutane	0.732	0.724	0.764	0.783	0.748	0.769	0.775		0.764	0.757	2.76
87) TP 1,1,2,2-Tetrachloroethane	0.544	0.598	0.603	0.617	0.586	0.579	0.574	0.506	0.617	0.580	6.22
88) TP 4-Ethyltoluene	2.366	2.712	2.854	2.960	2.894	2.933	2.867		2.893	2.810	6.90
89) TP 2-Chlorotoluene	1.477	1.906	2.000	2.047	1.991	2.026	2.031		1.881	1.920	9.83
90) TP 1,3,5-Trimethylbenzene	1.883	2.338	2.488	2.601	2.541	2.597	2.576		2.297	2.415	10.12
91) TP 1,2,3-Trichloropropane	0.440	0.435	0.463	0.484	0.462	0.474	0.481		0.482	0.465	4.09
92) TP trans-1,4-Dichloro-2-b...		0.138	0.157	0.170	0.160	0.161	0.160		0.145	0.156	6.79
93) TP 4-Chlorotoluene	1.700	1.988	2.099	2.154	2.060	2.103	2.060		2.002	2.021	6.96
94) TP tert-Butylbenzene	1.596	2.022	2.161	2.281	2.222	2.276	2.252		2.067	2.110	10.84
97) TP 1,2,4-Trimethylbenzene	2.033	2.384	2.539	2.625	2.565	2.589	2.534		2.489	2.470	7.73
98) TP sec-Butylbenzene	2.383	3.023	3.231	3.445	3.352	3.340	3.224		3.140	3.142	10.62
99) TP p-Isopropyltoluene	2.106	2.562	2.839	2.999	2.972	2.998	2.905		2.621	2.750	11.26
100) TP 1,3-Dichlorobenzene	1.348	1.457	1.573	1.621	1.587	1.606	1.582		1.561	1.542	6.01
101) TP 1,4-Dichlorobenzene	1.369	1.544	1.615	1.619	1.568	1.603	1.586		1.607	1.564	5.30
102) TP p-Diethylbenzene	1.286	1.530	1.689	1.785	1.768	1.795	1.780		1.514	1.643	11.19
103) TP n-Butylbenzene	1.876	2.426	2.553	2.678	2.560	2.547	2.469		2.426	2.442	9.97
104) TP 1,2-Dichlorobenzene	1.212	1.391	1.488	1.520	1.479	1.517	1.495		1.507	1.451	7.22
105) TP 1,2,4,5-Tetramethylben...	1.864	2.370	2.711	2.825	2.796	2.896	2.822		2.353	2.580	13.83
106) TP 1,2-Dibromo-3-chloropr...	0.078	0.086	0.095	0.111	0.107	0.109	0.107		0.090	0.098	12.74
107) TP 1,3,5-Trichlorobenzene	0.906	1.054	1.122	1.132	1.101	1.128	1.109		1.065	1.077	6.93
108) TP Hexachlorobutadiene	0.417	0.507	0.527	0.550	0.532	0.548	0.568		0.530	0.522	8.87
109) TP 1,2,4-Trichlorobenzene	0.885	0.930	1.019	1.045	0.995	1.024	1.025		0.997	0.990	5.55
110) TP Naphthalene	1.816	1.880	2.117	2.251	2.174	2.138	2.078		1.989	2.056	7.27
111) TP 1,2,3-Trichlorobenzene	0.817	0.882	0.933	0.961	0.912	0.926	0.903		0.956	0.911	5.07



Response Factor Report VOA127

Method Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Method File : V127_211005N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:48:31 2021
 Response Via : Initial Calibration

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound		L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
-----ISTD-----												
1) I	Fluorobenzene											
2) TP	Dichlorodifluo...	0.365	0.349	0.388	0.336	0.342	0.313	0.300	0.275	0.333	10.91	
3) TP	Chloromethane	0.863	0.799	0.791	0.659	0.661	0.599	0.555	0.507	0.679	18.68	
4) TC	Vinyl chloride	0.342	0.407	0.454	0.395	0.395	0.368	0.351	0.327	0.380	10.85	
5) TP	Bromomethane		0.285	0.254	0.192	0.193	0.178	0.167	0.157	*L	0.9967	
6) TP	Chloroethane	0.288	0.325	0.301	0.232	0.232	0.208			0.264	17.57	
7) TP	Trichlorofluor...	0.423	0.442	0.486	0.434	0.447	0.411	0.386	0.349	0.422	9.86	
8) TP	Ethyl ether	0.171	0.206	0.166	0.162	0.171	0.162	0.164	0.162	0.170	8.79	
10) TC	1,1-Dichloroet...	0.319	0.298	0.346	0.257	0.271	0.251	0.240	0.225	0.276	15.07	
11) TP	Carbon disulfide	0.854	0.891	0.934	0.827	0.844	0.773	0.742	0.693	0.820	9.69	
12) TP	Freon-113	0.193	0.219	0.244	0.231	0.240	0.232	0.229	0.215	0.225	7.21	
15) TP	Methylene chlo...		0.635	0.456	0.344	0.329	0.301	0.286	0.273	*L	0.9980	
17) TP	Acetone		0.355	0.258	0.143	0.128	0.129	0.132		*L	0.9984	
18) TP	trans-1,2-Dich...	0.420	0.344	0.319	0.291	0.285	0.278	0.270	0.259	0.308	17.14	
19) TP	Methyl acetate			0.316	0.254	0.239	0.215	0.223	0.220	0.245	15.57	
20) TP	Methyl tert-bu...	0.727	0.617	0.668	0.664	0.723	0.732	0.769	0.753	0.707	7.32	
21) TP	tert-Butyl alc...		0.058	0.059	0.047	0.046	0.040	0.041	0.040	0.047#	17.25	
22) TP	Diisopropyl ether	0.850	0.848	0.906	0.918	0.965	0.991	1.016	0.989	0.935	6.93	
23) TP	1,1-Dichloroet...	0.733	0.724	0.727	0.624	0.619	0.591	0.565	0.547	0.641	11.84	
24) TP	Halothane			0.226	0.202	0.213	0.206	0.205	0.196	0.208	5.03	
25) TP	Acrylonitrile		0.170	0.150	0.141	0.134	0.120	0.119	0.120	0.137	14.06	
26) TP	Ethyl tert-but...	0.731	0.742	0.812	0.806	0.874	0.910	0.955	0.931	0.845	10.04	
27) TP	Vinyl acetate	0.639	0.605	0.608	0.665	0.731	0.731	0.752	0.750	0.685	9.20	
28) TP	cis-1,2-Dichlo...	0.442	0.393	0.401	0.339	0.345	0.327	0.319	0.309	0.359	13.11	
29) TP	2,2-Dichloropr...	0.527	0.511	0.520	0.460	0.472	0.447	0.438	0.419	0.474	8.56	
30) TP	Bromochloromet...	0.201	0.210	0.214	0.170	0.170	0.152	0.145	0.137	0.175	17.11	
31) TP	Cyclohexane	0.460	0.467	0.516	0.530	0.590	0.571	0.565	0.528	0.528	8.88	
32) TC	Chloroform	0.691	0.667	0.641	0.546	0.553	0.520	0.514	0.496	0.578	13.15	
33) TP	Ethyl acetate	0.344	0.346	0.324	0.305	0.321	0.302	0.319	0.316	0.322	5.01	
34) TP	Carbon tetrach...	0.311	0.343	0.380	0.379	0.400	0.394	0.394	0.374	0.372	8.17	
35) TP	Tetrahydrofuran		0.177	0.165	0.114	0.118	0.093	0.103	0.102	*L	0.9972	

Response Factor Report VOA127

Method Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Method File : V127_211005N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:48:31 2021
 Response Via : Initial Calibration

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound		L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
36)	S Dibromofluorom...	0.330	0.336	0.320	0.328	0.303	0.294	0.276	0.274	0.278	0.304	8.25
37)	TP 1,1,1-Trichlor...	0.550	0.423	0.429	0.456	0.430	0.458	0.444	0.437	0.419	0.450	8.94
39)	TP 2-Butanone	0.247	0.258	0.215	0.195	0.187	0.187	0.194	0.170	0.207		15.03
40)	TP 1,1-Dichloropr...	0.189	0.246	0.258	0.297	0.315	0.359	0.368	0.368	0.351	*L	0.9989
41)	TP Benzene	1.112	1.007	1.057	1.055	1.022	1.092	1.091	1.073	1.037	1.061	3.28
42)	TP tert-Amyl meth...	0.598	0.636	0.656	0.642	0.677	0.684	0.722	0.712	0.666		6.20
43)	S 1,2-Dichloroet...	0.346	0.352	0.339	0.352	0.337	0.328	0.323	0.323	0.335	0.337	3.37
44)	TP 1,2-Dichloroet...	0.403	0.445	0.448	0.419	0.430	0.405	0.406	0.399	0.419		4.67
47)	TP Methyl cyclohe...	0.475	0.404	0.449	0.414	0.450	0.448	0.451	0.421	0.439		5.34
48)	TP Trichloroethene	0.353	0.250	0.243	0.242	0.250	0.277	0.286	0.283	0.271	0.273	12.67
50)	TP Dibromomethane	0.224	0.197	0.210	0.181	0.181	0.171	0.174	0.169	0.188		10.73
51)	TC 1,2-Dichloropr...	0.263	0.279	0.283	0.296	0.323	0.321	0.323	0.317	0.301		7.85
54)	TP Bromodichlorom...	0.587	0.412	0.379	0.398	0.385	0.399	0.395	0.396	0.390	0.416	15.60
57)	TP 1,4-Dioxane	0.004	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.004	#	6.45
58)	TP cis-1,3-Dichlo...	0.296	0.350	0.369	0.371	0.402	0.451	0.461	0.472	0.461	0.404	15.22
59)	I Chlorobenzene-d5	-----ISTD-----										
60)	S Toluene-d8	1.296	1.292	1.304	1.299	1.302	1.315	1.331	1.315	1.315	1.308	0.95
61)	TC Toluene	0.894	0.930	0.906	0.854	0.911	0.910	0.888	0.847	0.893		3.24
62)	TP 4-Methyl-2-pen...	0.142	0.144	0.144	0.139	0.148	0.143	0.153	0.151	0.146		3.22
63)	TP Tetrachloroethene	0.332	0.267	0.334	0.341	0.336	0.370	0.369	0.368	0.345	0.340	9.26
65)	TP trans-1,3-Dich...	0.350	0.370	0.404	0.438	0.491	0.534	0.559	0.550	0.462		17.94
67)	TP Ethyl methacry...	0.617	0.504	0.481	0.417	0.448	0.433	0.441	0.427	0.471		13.95
68)	TP 1,1,2-Trichlor...	0.237	0.212	0.206	0.205	0.235	0.248	0.262	0.257	0.233		9.70
69)	TP Chlorodibromom...	0.296	0.281	0.272	0.278	0.299	0.337	0.367	0.385	0.381	0.322	14.38
70)	TP 1,3-Dichloropr...	0.395	0.393	0.416	0.440	0.495	0.525	0.549	0.539	0.469		13.96
71)	TP 1,2-Dibromoethane	0.192	0.242	0.230	0.245	0.253	0.286	0.301	0.314	0.309	0.264	15.68
72)	TP 2-Hexanone	0.408	0.355	0.313	0.288	0.287	0.289	0.306	0.277	0.315		14.17
73)	TP Chlorobenzene	0.989	0.962	0.964	1.007	0.943	1.003	0.983	0.973	0.930	0.973	2.67
74)	TC Ethylbenzene	1.641	1.710	1.801	1.693	1.789	1.746	1.689	1.592	1.708		4.15
75)	TP 1,1,1,2-Tetrac...	0.260	0.217	0.281	0.265	0.291	0.320	0.343	0.359	0.353	0.299	16.19
76)	TP p/m Xylene	0.739	0.720	0.732	0.752	0.686	0.716	0.695	0.665	0.624	0.703	5.76

Response Factor Report VOA127

Method Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Method File : V127_211005N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:48:31 2021
 Response Via : Initial Calibration

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
 L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

	Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
77) TP	o Xylene	0.731	0.686	0.717	0.719	0.657	0.687	0.664	0.635	0.602	0.678	6.25
78) TP	Styrene	1.317	1.178	1.196	1.199	1.135	1.178	1.140	1.078	1.010	1.159	7.37
79) I	1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP	Bromoform	0.281	0.286	0.331	0.344	0.392	0.404	0.455	0.450	0.368		18.48
82) TP	Isopropylbenzene	2.740	2.937	3.089	3.041	3.251	3.176	3.201	3.016	3.057		5.39
83) S	4-Bromofluorob...	0.939	0.919	0.925	0.927	0.955	0.952	0.950	0.975	0.982	0.947	2.32
84) TP	Bromobenzene	0.696	0.726	0.738	0.737	0.771	0.766	0.784	0.758	0.747		3.78
85) TP	n-Propylbenzene	3.492	3.542	3.706	3.693	3.951	3.832	3.830	3.552	3.700		4.42
86) TP	1,4-Dichlorobu...	1.260	1.120	1.085	1.142	1.207	1.203	1.282	1.259	1.195		6.06
87) TP	1,1,2,2-Tetrac...	0.834	0.629	0.583	0.560	0.592	0.642	0.634	0.700	0.703	0.653	12.78
88) TP	4-Ethyltoluene	3.090	3.130	3.196	3.107	3.333	3.224	3.232	3.005	3.165		3.22
89) TP	2-Chlorotoluene	2.318	2.224	2.324	2.221	2.383	2.313	2.310	2.187	2.285		2.91
90) TP	1,3,5-Trimethy...	2.635	2.779	2.897	2.735	2.929	2.834	2.851	2.654	2.789		3.87
91) TP	1,2,3-Trichlor...	0.485	0.488	0.473	0.519	0.557	0.545	0.597	0.591	0.532		9.03
92) TP	trans-1,4-Dich...	0.269	0.283	0.255	0.228	0.237	0.228	0.257	0.249	0.251		7.72
93) TP	4-Chlorotoluene	2.398	2.314	2.421	2.348	2.467	2.381	2.409	2.278	2.377		2.56
94) TP	tert-Butylbenzene	2.007	2.246	2.288	2.291	2.425	2.384	2.407	2.247	2.287		5.84
97) TP	1,2,4-Trimethy...	2.787	2.780	2.822	2.742	2.935	2.814	2.817	2.644	2.793		2.94
98) TP	sec-Butylbenzene	3.223	3.315	3.481	3.421	3.644	3.518	3.529	3.262	3.424		4.27
99) TP	p-Isopropyltol...	2.697	2.894	3.106	3.008	3.218	3.110	3.136	2.895	3.008		5.67
100) TP	1,3-Dichlorobe...	1.381	1.502	1.589	1.490	1.583	1.528	1.544	1.452	1.509		4.57
101) TP	1,4-Dichlorobe...	1.507	1.536	1.534	1.511	1.571	1.535	1.561	1.466	1.528		2.16
102) TP	p-Diethylbenzene	1.632	1.734	1.857	1.798	1.920	1.863	1.875	1.738	1.802		5.30
103) TP	n-Butylbenzene	2.222	2.561	2.692	2.658	2.800	2.762	2.759	2.530	2.623		7.19
104) TP	1,2-Dichlorobe...	1.471	1.451	1.446	1.430	1.487	1.445	1.465	1.383	1.447		2.18
105) TP	1,2,4,5-Tetram...	2.590	2.802	2.754	2.704	2.819	2.586	2.704	2.663	2.703		3.25
106) TP	1,2-Dibromo-3-...	0.122	0.112	0.137	0.122	0.129	0.123	0.133	0.130	0.126		6.37
107) TP	1,3,5-Trichlor...	1.047	1.112	1.156	1.114	1.159	1.109	1.130	1.082	1.114		3.32
108) TP	Hexachlorobuta...	0.462	0.516	0.552	0.505	0.546	0.530	0.541	0.522	0.522		5.54
109) TP	1,2,4-Trichlor...	1.036	1.045	1.087	1.061	1.101	1.040	1.077	1.031	1.060		2.45
110) TP	Naphthalene	2.765	2.684	2.681	2.520	2.662	2.512	2.634	2.572	2.629		3.34

Response Factor Report VOA127

Method Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Method File : V127_211005N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 06 10:48:31 2021
Response Via : Initial Calibration

Calibration Files

L0 =V27211005N03.D L1 =V27211005N04.D L1.5=V27211005N05.D L2 =V27211005N06.D L3 =V27211005N07.D
L4 =V27211005N08.D L6 =V27211005N09.D L7 =V27211005N10.D L8 =V27211005N11.D

Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
111) TP 1,2,3-Trichlor...	1.016	1.006	1.023	0.998	1.036	0.972	1.012	0.980	1.006	2.13	

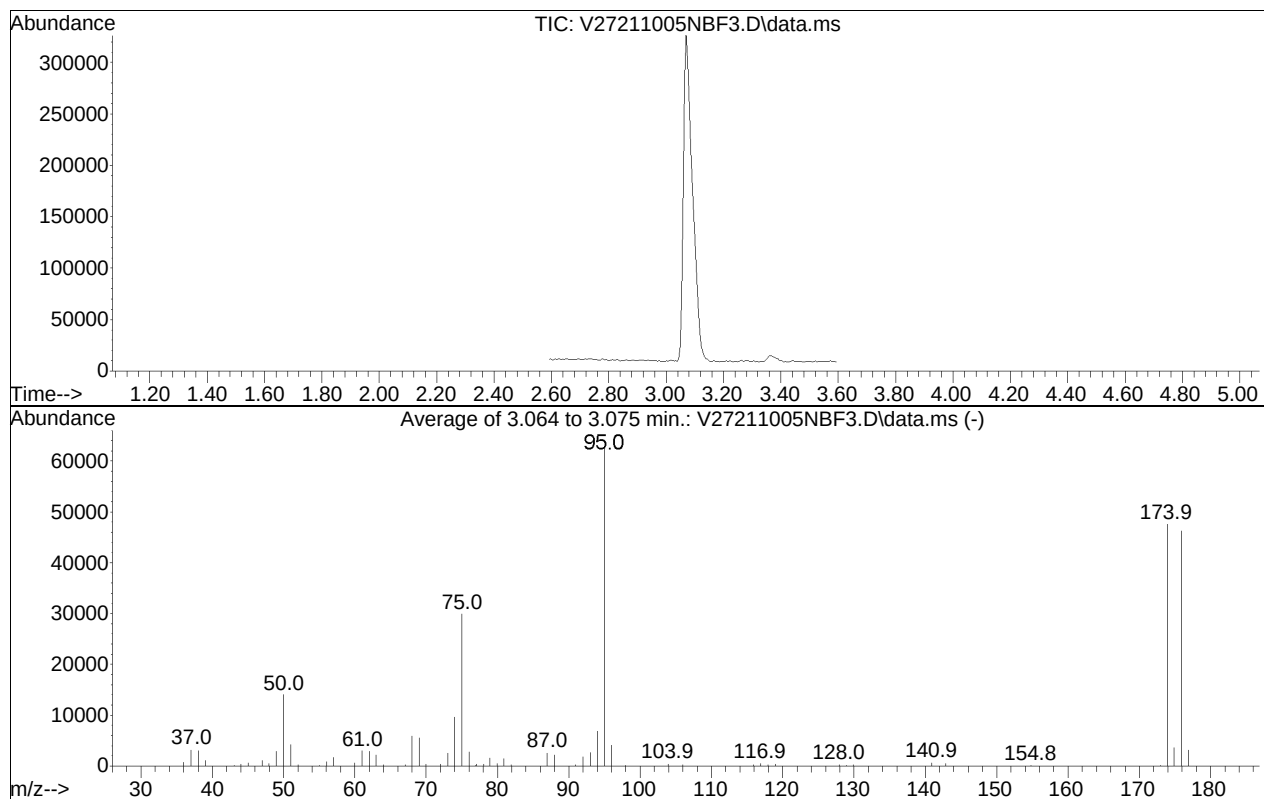
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005NBF3.D
 Acq On : 05 Oct 2021 07:22 pm
 Operator : VOA127:JC
 Sample : WG1555130-1
 Misc : WG1555130,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:48:31 2021



Spectrum Information: Average of 3.064 to 3.075 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	14039	PASS
75	95	30	60	47.6	29941	PASS
95	95	100	100	100.0	62917	PASS
96	95	5	9	6.5	4071	PASS
173	174	0.00	2	0.3	161	PASS
174	95	50	100	75.7	47653	PASS
175	174	5	9	7.6	3618	PASS
176	174	95	101	97.2	46296	PASS
177	176	5	9	6.9	3183	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N03.D
 Acq On : 05 Oct 2021 08:25 pm
 Operator : VOA127:JC
 Sample : I8260STD0.5PPB
 Misc : WG1555130,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 13:12:48 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-L0_OH - Level 0.5ppb for Soils OH

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	133846	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery =	84.73%		
59) Chlorobenzene-d5	8.761	117	120834	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery =	93.97%		
79) 1,4-Dichlorobenzene-d4	10.208	152	72855	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery =	103.00%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	44166	21.688	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.44%		
43) 1,2-Dichloroethane-d4	5.615	65	46324	20.531	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.65%		
60) Toluene-d8	7.560	98	156651	19.828	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.14%		
83) 4-Bromofluorobenzene	9.553	95	68407	19.830	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.15%		
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	4.986	97	1842	0.612	ug/L #	67
40) 1,1-Dichloropropene	5.143	75	632	0.610	ug/L #	19
41) Benzene	5.442	78	3722	0.524	ug/L #	70
48) Trichloroethene	6.108	95	1181	0.647	ug/L #	75
54) Bromodichloromethane	6.758	83	1963	0.706	ug/L #	88
58) cis-1,3-Dichloropropene	7.398	75	992	0.367	ug/L #	30
63) Tetrachloroethene	7.928	166	1004	0.488	ug/L	89
69) Chlorodibromomethane	8.237	129	893	0.459	ug/L	91
71) 1,2-Dibromoethane	8.394	107	580	0.364	ug/L	81
73) Chlorobenzene	8.777	112	2989	0.509	ug/L #	47
75) 1,1,1,2-Tetrachloroethane	8.824	131	786	0.435	ug/L #	67
76) p/m Xylene	8.903	106	4463	1.051	ug/L	99
77) o Xylene	9.181	106	4416	1.079	ug/L	91
78) Styrene	9.217	104	7957	1.136	ug/L	89
87) 1,1,2,2-Tetrachloroethane	9.689	83	1519	0.638	ug/L #	93

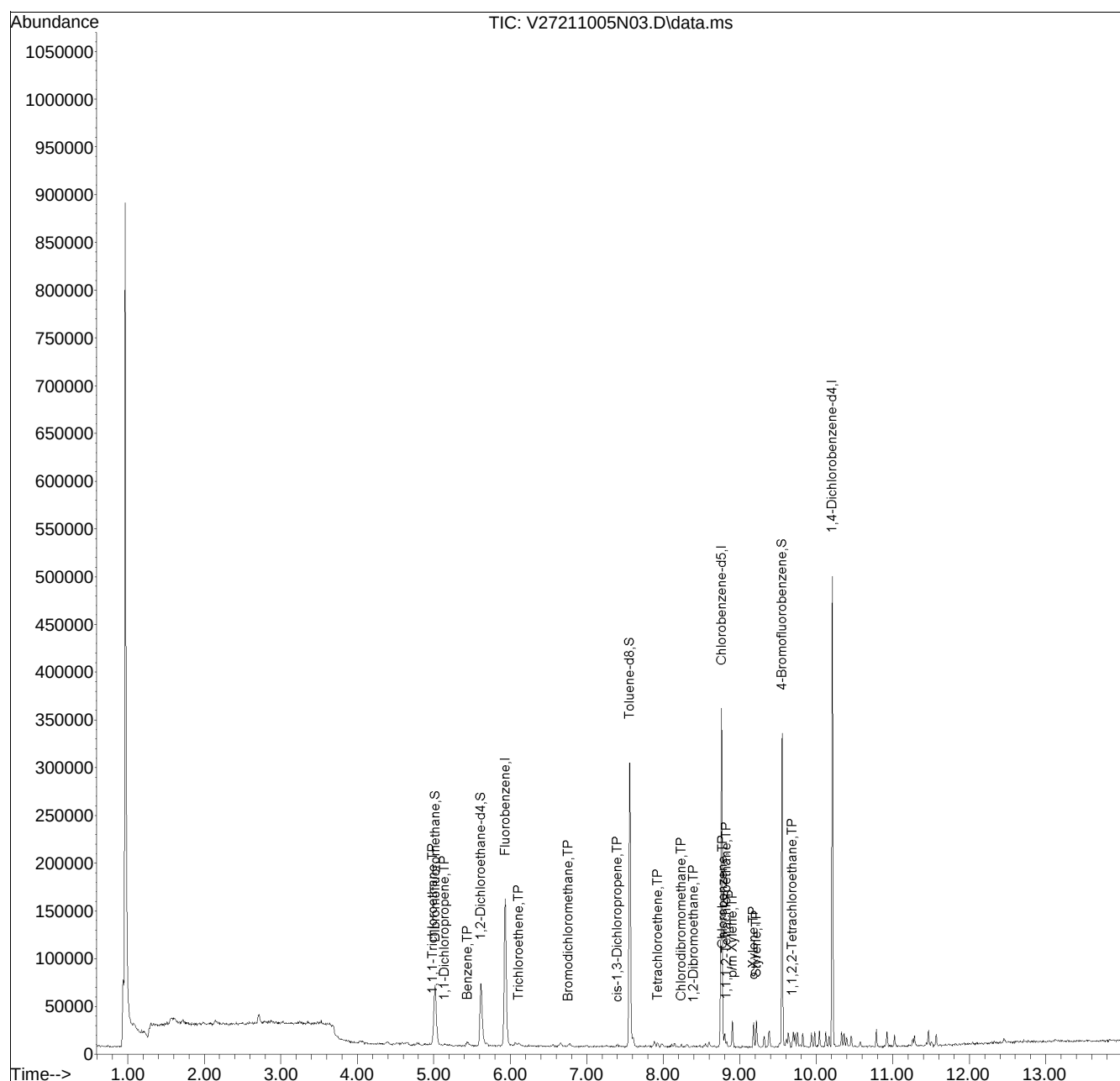
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N03.D
 Acq On : 05 Oct 2021 08:25 pm
 Operator : VOA127:JC
 Sample : I8260STD0.5PPB
 Misc : WG1555130,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 13:12:48 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Sub List : 8260-L0_OH - Level 0.5ppb for Soils OHAL\V27211005N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA127\2021\20	Method	: V127_211005N_8260.m
Data File	: V27211005N03.D	Operator	: VOA127:JC
Date Inj'd	: 10/5/2021 8:25 pm	Instrument	: VOA127
Sample	: I8260STD0.5PPB	Quant Date	: 10/6/2021 1:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N04.D
 Acq On : 05 Oct 2021 08:46 pm
 Operator : VOA127:JC
 Sample : I8260STD1.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 13:13:02 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	132584	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	83.93%	
59) Chlorobenzene-d5	8.761	117	120395	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	93.63%	
79) 1,4-Dichlorobenzene-d4	10.208	152	73549	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	103.98%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	44583	22.101	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	110.50%	
43) 1,2-Dichloroethane-d4	5.615	65	46677	20.885	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	104.43%	
60) Toluene-d8	7.560	98	155548	19.761	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.80%	
83) 4-Bromofluorobenzene	9.553	95	67572	19.404	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.02%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	2420	1.095	ug/L	87
3) Chloromethane	1.211	50	5719	1.270	ug/L	96
4) Vinyl chloride	1.274	62	2268	0.901	ug/L #	45
5) Bromomethane	1.510	94	2171	Below Cal		89
6) Chloroethane	1.610	64	1908	1.089	ug/L	81
7) Trichlorofluoromethane	1.720	101	2805	1.002	ug/L #	81
8) Ethyl ether	1.987	74	1132	1.002	ug/L #	82
10) 1,1-Dichloroethene	2.139	96	2115	1.156	ug/L #	66
11) Carbon disulfide	2.144	76	5663	1.042	ug/L #	87
12) Freon-113	2.181	101	1280	0.856	ug/L	86
15) Methylene chloride	2.716	84	4380	Below Cal		87
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	2.873	96	2786	1.363	ug/L #	63
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	3.036	73	4822	1.029	ug/L #	56
21) tert-Butyl alcohol	3.240	59	2536	8.116	ug/L #	42
22) Diisopropyl ether	3.523	45	5638	0.909	ug/L #	75
23) 1,1-Dichloroethane	3.618	63	4856	1.142	ug/L	75
24) Halothane	0.000		0	N.D.	d	
25) Acrylonitrile	0.000		0	N.D.	d	
26) Ethyl tert-butyl ether	4.042	59	4849	0.865	ug/L #	73

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N04.D
 Acq On : 05 Oct 2021 08:46 pm
 Operator : VOA127:JC
 Sample : I8260STD1.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 13:13:02 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
27) Vinyl acetate	4.058	43	4238	0.933	ug/L	#	81
28) cis-1,2-Dichloroethene	4.383	96	2931M1	1.230	ug/L		
29) 2,2-Dichloropropane	4.514	77	3494	1.112	ug/L	#	67
30) Bromochloromethane	4.640	128	1331	1.149	ug/L	#	64
31) Cyclohexane	4.598	56	3049	0.870	ug/L		74
32) Chloroform	4.792	83	4582	1.195	ug/L	#	44
33) Ethyl acetate	5.018	43	2279M6	1.067	ug/L		
34) Carbon tetrachloride	4.886	117	2059	0.836	ug/L	#	92
35) Tetrahydrofuran	0.000		0	N.D.	d		
37) 1,1,1-Trichloroethane	4.981	97	2804	0.941	ug/L		83
39) 2-Butanone	5.212	43	1638	1.195	ug/L	#	90
40) 1,1-Dichloropropene	5.138	75	1632	1.032	ug/L	#	79
41) Benzene	5.437	78	6676	0.949	ug/L		91
42) tert-Amyl methyl ether	5.647	73	3962	0.898	ug/L		96
44) 1,2-Dichloroethane	5.699	62	2672	0.961	ug/L	#	62
47) Methyl cyclohexane	6.066	83	3150	1.082	ug/L		79
48) Trichloroethene	6.113	95	1660	0.918	ug/L	#	85
50) Dibromomethane	6.554	93	1488	1.191	ug/L		89
51) 1,2-Dichloropropane	6.659	63	1744	0.874	ug/L	#	91
54) Bromodichloromethane	6.764	83	2731	0.991	ug/L	#	98
57) 1,4-Dioxane	6.989	88	1024	42.822	ug/L	#	80
58) cis-1,3-Dichloropropene	7.403	75	2319	0.866	ug/L	#	73
61) Toluene	7.602	92	5381	1.002	ug/L		94
62) 4-Methyl-2-pentanone	7.975	58	853	0.974	ug/L	#	83
63) Tetrachloroethene	7.922	166	1608	0.785	ug/L		88
65) trans-1,3-Dichloropropene	7.996	75	2107	0.758	ug/L	#	62
67) Ethyl methacrylate	8.148	69	3716	1.310	ug/L		90
68) 1,1,2-Trichloroethane	8.111	83	1428	1.019	ug/L		98
69) Chlorodibromomethane	8.242	129	1694	0.874	ug/L		94
70) 1,3-Dichloropropane	8.310	76	2380	0.843	ug/L		94
71) 1,2-Dibromoethane	8.394	107	1455	0.917	ug/L		93
72) 2-Hexanone	8.604	43	2455	1.293	ug/L	#	80
73) Chlorobenzene	8.772	112	5793	0.989	ug/L	#	86
74) Ethylbenzene	8.803	91	9876	0.961	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.824	131	1305	0.726	ug/L	#	63
76) p/m Xylene	8.903	106	8664	2.047	ug/L		98
77) o Xylene	9.181	106	8254	2.024	ug/L		93
78) Styrene	9.217	104	14180	2.032	ug/L		92
80) Bromoform	9.233	173	1034	0.764	ug/L		97
82) Isopropylbenzene	9.380	105	10078	0.897	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N04.D
 Acq On : 05 Oct 2021 08:46 pm
 Operator : VOA127:JC
 Sample : I8260STD1.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 13:13:02 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	2561	0.932	ug/L	98
85)	n-Propylbenzene	9.632	91	12842	0.944	ug/L	97
86)	1,4-Dichlorobutane	9.647	55	4632M3	1.054	ug/L	
87)	1,1,2,2-Tetrachloroethane	9.689	83	2313	0.963	ug/L	91
88)	4-Ethyltoluene	9.700	105	11365	0.976	ug/L	96
89)	2-Chlorotoluene	9.721	91	8524M6	1.014	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	9691	0.945	ug/L	97
91)	1,2,3-Trichloropropane	9.763	75	1783	0.911	ug/L	95
92)	trans-1,4-Dichloro-2-b...	9.789	53	989	1.073	ug/L #	79
93)	4-Chlorotoluene	9.820	91	8817	1.009	ug/L	100
94)	tert-Butylbenzene	9.936	119	7381	0.878	ug/L	92
97)	1,2,4-Trimethylbenzene	9.978	105	10250	0.998	ug/L	98
98)	sec-Butylbenzene	10.040	105	11851	0.941	ug/L	96
99)	p-Isopropyltoluene	10.124	119	9918	0.897	ug/L	97
100)	1,3-Dichlorobenzene	10.166	146	5080	0.916	ug/L	96
101)	1,4-Dichlorobenzene	10.219	146	5542	0.986	ug/L #	85
102)	p-Diethylbenzene	10.329	119	6002	0.906	ug/L	97
103)	n-Butylbenzene	10.366	91	8170	0.847	ug/L	91
104)	1,2-Dichlorobenzene	10.460	146	5411	1.017	ug/L	93
105)	1,2,4,5-Tetramethylben...	10.785	119	9525	0.958	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.916	155	448	0.966	ug/L	97
107)	1,3,5-Trichlorobenzene	10.927	180	3850	0.940	ug/L	96
108)	Hexachlorobutadiene	11.262	225	1699	0.886	ug/L	93
109)	1,2,4-Trichlorobenzene	11.283	180	3811	0.978	ug/L	97
110)	Naphthalene	11.467	128	10167	1.052	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	3738	1.011	ug/L	94

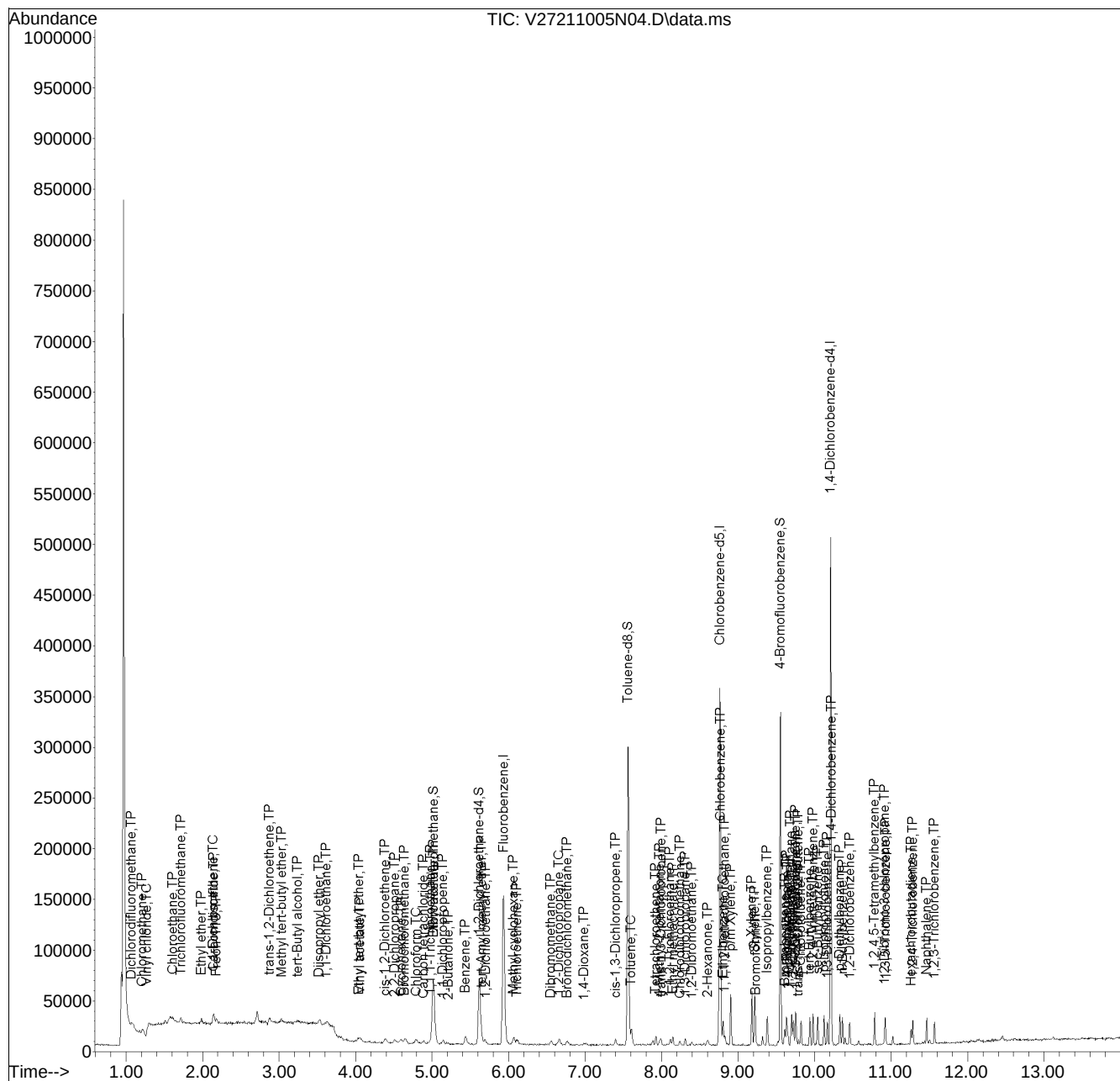
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N04.D
Acq On : 05 Oct 2021 08:46 pm
Operator : VOA127:JC
Sample : I8260STD1.0PPB
Misc : WG1555130,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 13:13:02 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

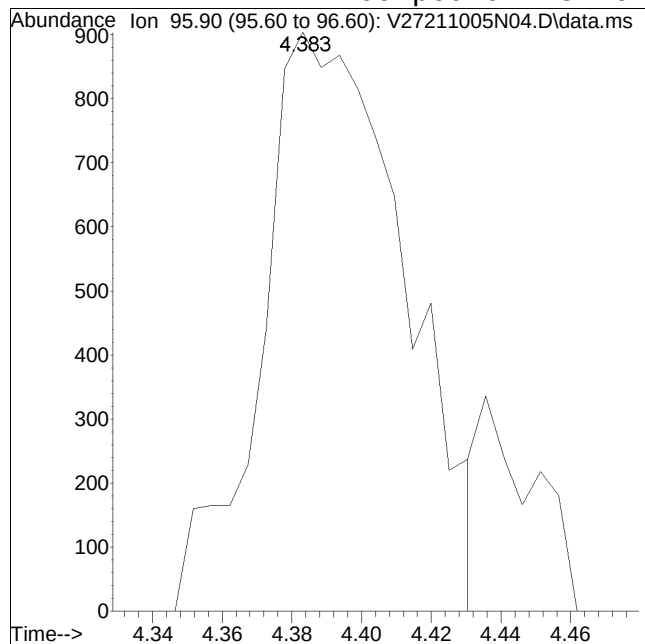
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

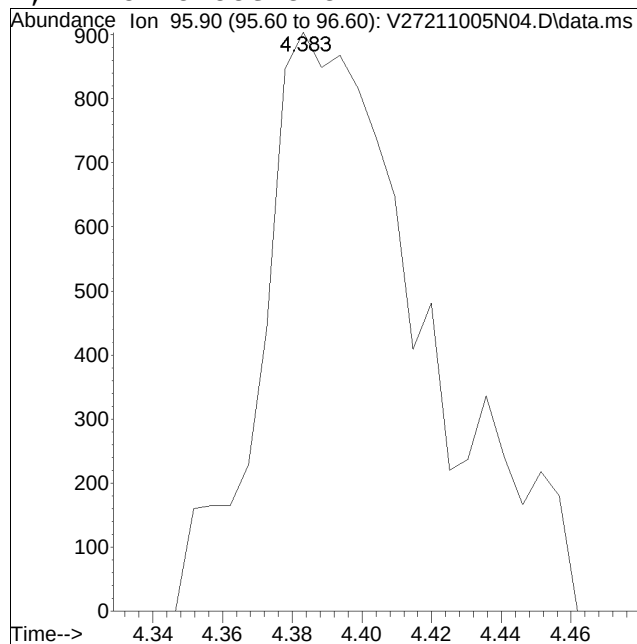
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Data File : V27211005N04.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 8:46 pm Instrument : VOA127
Sample : I8260STD1.0PPB Quant Date : 10/6/2021 1:12 pm

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 2573

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

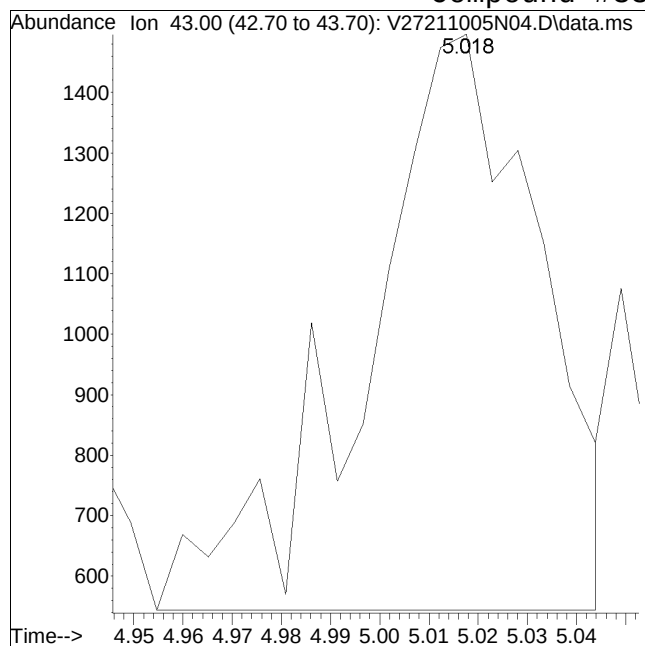


Manual Peak Response = 2931 M1

Manual Integration Report

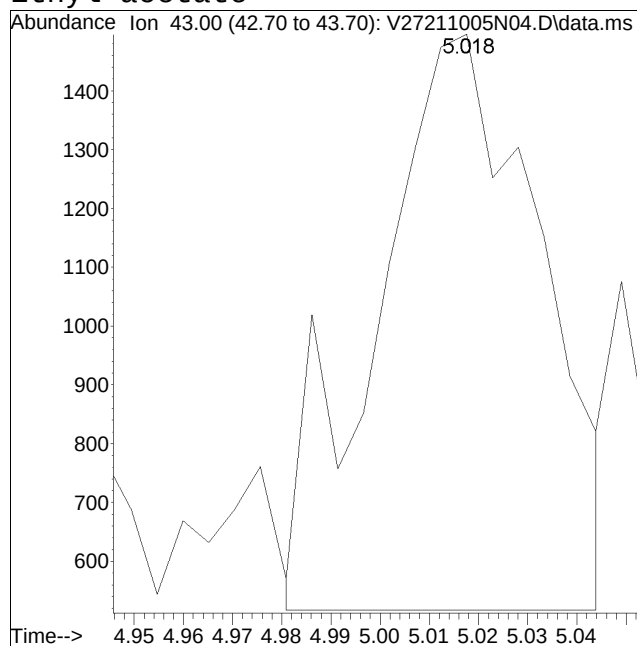
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N04.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 8:46 pm Instrument : VOA127
Sample : I8260STD1.0PPB Quant Date : 10/6/2021 1:12 pm

Compound #33: Ethyl acetate



Original Peak Response = 2366

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

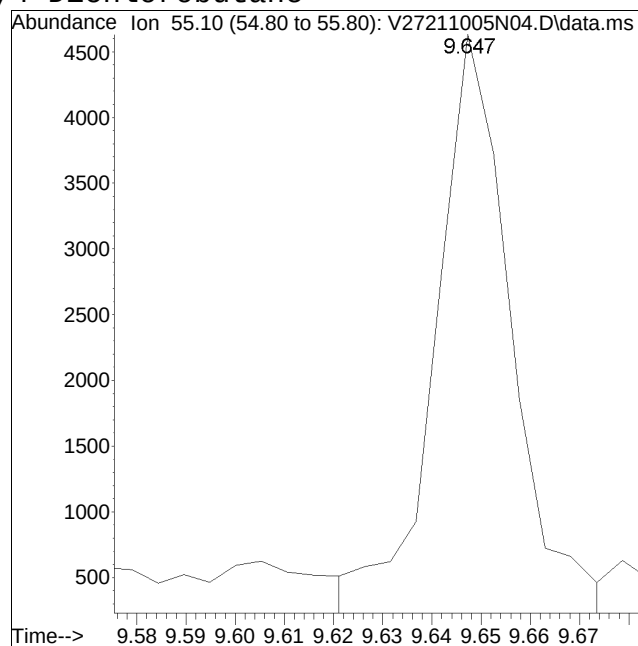
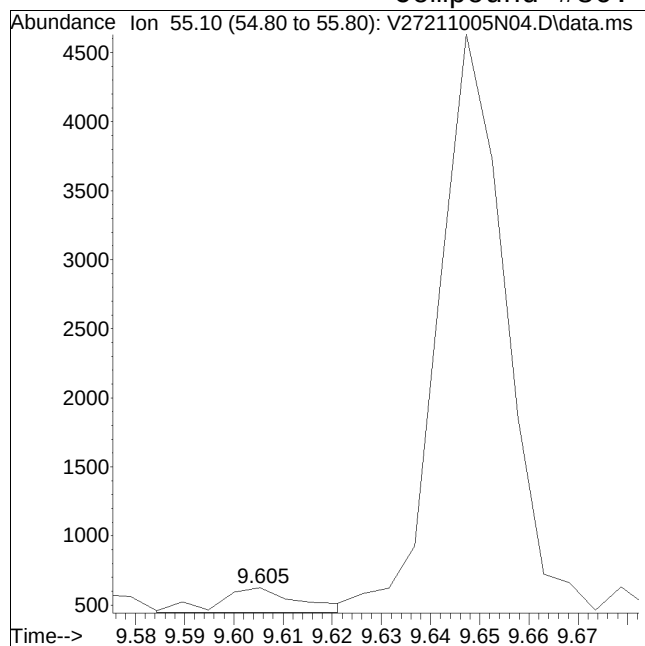


Manual Peak Response = 2279 M6

Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N04.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 8:46 pm Instrument : VOA127
Sample : I8260STD1.0PPB Quant Date : 10/6/2021 1:12 pm

Compound #86: 1,4-Dichlorobutane



Original Peak Response = 207

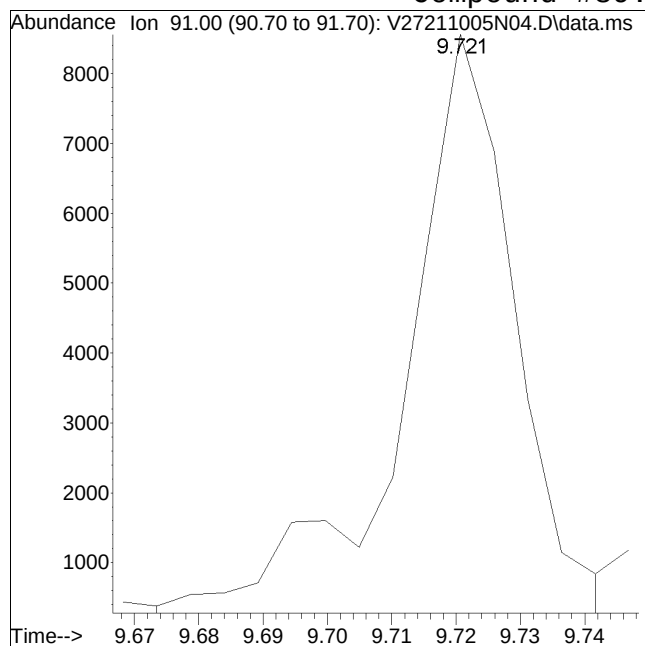
Manual Peak Response = 4632 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

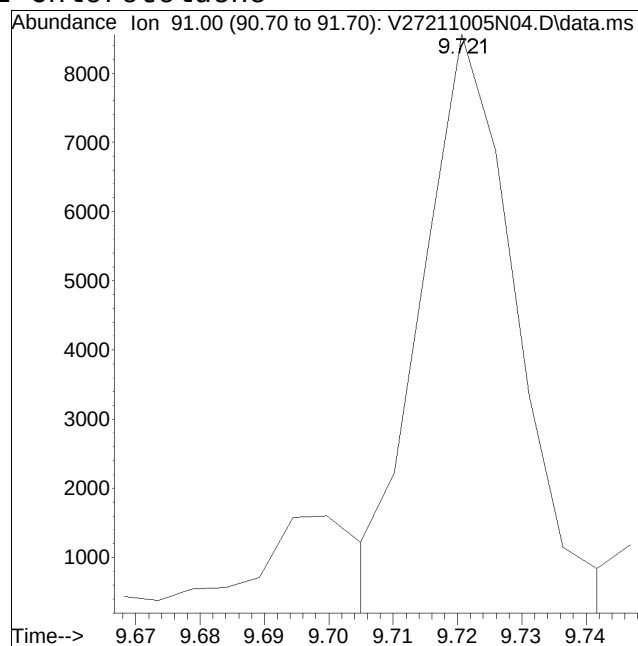
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N04.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 8:46 pm Instrument : VOA127
Sample : I8260STD1.0PPB Quant Date : 10/6/2021 1:12 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 9766

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 8524 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N05.D
 Acq On : 05 Oct 2021 09:06 pm
 Operator : VOA127:JC
 Sample : I8260STD2.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 13:13:15 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	137931	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	87.32%	
59) Chlorobenzene-d5	8.761	117	122044	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	94.91%	
79) 1,4-Dichlorobenzene-d4	10.208	152	73728	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	104.24%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	44080	21.005	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	105.02%	
43) 1,2-Dichloroethane-d4	5.621	65	46697	20.084	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.42%	
60) Toluene-d8	7.560	98	159107	19.940	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.70%	
83) 4-Bromofluorobenzene	9.553	95	68190	19.533	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.67%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	4809	2.091	ug/L	# 94
3) Chloromethane	1.211	50	11020	2.353	ug/L	98
4) Vinyl chloride	1.274	62	5620	2.145	ug/L	73
5) Bromomethane	1.510	94	3933	1.461	ug/L	99
6) Chloroethane	1.610	64	4480	2.457	ug/L	83
7) Trichlorofluoromethane	1.720	101	6092	2.092	ug/L	84
8) Ethyl ether	1.987	74	2848	2.422	ug/L	75
10) 1,1-Dichloroethene	2.139	96	4114	2.161	ug/L	# 72
11) Carbon disulfide	2.144	76	12287	2.173	ug/L	92
12) Freon-113	2.186	101	3022	1.944	ug/L	98
15) Methylene chloride	2.716	84	8755	1.736	ug/L	80
17) Acetone	2.795	43	4893	1.974	ug/L	# 86
18) trans-1,2-Dichloroethene	2.878	96	4744	2.231	ug/L	81
19) Methyl acetate	2.936	43	4972	2.948	ug/L	# 83
20) Methyl tert-butyl ether	3.025	73	8511	1.746	ug/L	# 90
21) tert-Butyl alcohol	3.235	59	3983	12.253	ug/L	# 85
22) Diisopropyl ether	3.523	45	11693	1.813	ug/L	# 78
23) 1,1-Dichloroethane	3.623	63	9984	2.258	ug/L	86
24) Halothane	3.675	117	187	0.130	ug/L	91
25) Acrylonitrile	3.733	53	2351	2.497	ug/L	# 81
26) Ethyl tert-butyl ether	4.048	59	10238	1.756	ug/L	# 80

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N05.D
 Acq On : 05 Oct 2021 09:06 pm
 Operator : VOA127:JC
 Sample : I8260STD2.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 13:13:15 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.063	43	8342	1.766	ug/L #	90
28) cis-1,2-Dichloroethene	4.399	96	5425	2.189	ug/L #	72
29) 2,2-Dichloropropane	4.519	77	7047	2.155	ug/L	91
30) Bromochloromethane	4.656	128	2897	2.403	ug/L #	60
31) Cyclohexane	4.593	56	6446	1.769	ug/L	76
32) Chloroform	4.787	83	9200	2.306	ug/L	93
33) Ethyl acetate	5.018	43	4779	2.151	ug/L #	88
34) Carbon tetrachloride	4.886	117	4729	1.845	ug/L	94
35) Tetrahydrofuran	4.970	42	2440M3	1.547	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	5922	1.910	ug/L #	95
39) 2-Butanone	5.196	43	3565M3	2.499	ug/L	
40) 1,1-Dichloropropene	5.143	75	3564	1.786	ug/L #	81
41) Benzene	5.442	78	14573	1.992	ug/L	95
42) tert-Amyl methyl ether	5.652	73	8777	1.912	ug/L	95
44) 1,2-Dichloroethane	5.694	62	6144	2.124	ug/L	82
47) Methyl cyclohexane	6.066	83	5579	1.843	ug/L	88
48) Trichloroethene	6.108	95	3353	1.782	ug/L	95
50) Dibromomethane	6.554	93	2714	2.089	ug/L	97
51) 1,2-Dichloropropane	6.664	63	3854	1.858	ug/L #	90
54) Bromodichloromethane	6.764	83	5224	1.823	ug/L #	88
57) 1,4-Dioxane	6.994	88	1863	74.888	ug/L #	91
58) cis-1,3-Dichloropropene	7.398	75	5083	1.826	ug/L #	88
61) Toluene	7.608	92	11349	2.084	ug/L	95
62) 4-Methyl-2-pentanone	7.969	58	1762	1.984	ug/L	92
63) Tetrachloroethene	7.922	166	4080	1.965	ug/L	85
65) trans-1,3-Dichloropropene	7.990	75	4518	1.603	ug/L #	70
67) Ethyl methacrylate	8.148	69	6148	2.139	ug/L	95
68) 1,1,2-Trichloroethane	8.111	83	2593	1.825	ug/L	97
69) Chlorodibromomethane	8.237	129	3318	1.689	ug/L	98
70) 1,3-Dichloropropane	8.310	76	4800	1.677	ug/L	94
71) 1,2-Dibromoethane	8.394	107	2810	1.747	ug/L	99
72) 2-Hexanone	8.604	43	4338	2.254	ug/L #	84
73) Chlorobenzene	8.772	112	11761	1.981	ug/L	95
74) Ethylbenzene	8.803	91	20871	2.003	ug/L	95
75) 1,1,1,2-Tetrachloroethane	8.829	131	3427	1.880	ug/L	94
76) p/m Xylene	8.903	106	17877	4.166	ug/L	96
77) o Xylene	9.181	106	17505	4.234	ug/L	90
78) Styrene	9.217	104	29204	4.129	ug/L	94
80) Bromoform	9.233	173	2108	1.554	ug/L	99
82) Isopropylbenzene	9.380	105	21653	1.922	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N05.D
 Acq On : 05 Oct 2021 09:06 pm
 Operator : VOA127:JC
 Sample : I8260STD2.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 13:13:15 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	5356	1.945	ug/L	99
85)	n-Propylbenzene	9.632	91	26114	1.915	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	8258	1.875	ug/L	96
87)	1,1,2,2-Tetrachloroethane	9.689	83	4297	1.785	ug/L	98
88)	4-Ethyltoluene	9.700	105	23080	1.978	ug/L	99
89)	2-Chlorotoluene	9.721	91	16400M6	1.947	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	20486	1.992	ug/L	93
91)	1,2,3-Trichloropropane	9.763	75	3600	1.836	ug/L	96
92)	trans-1,4-Dichloro-2-b...	9.789	53	2083	2.254	ug/L #	83
93)	4-Chlorotoluene	9.820	91	17061	1.947	ug/L	95
94)	tert-Butylbenzene	9.936	119	16557	1.964	ug/L	97
97)	1,2,4-Trimethylbenzene	9.978	105	20494	1.991	ug/L	93
98)	sec-Butylbenzene	10.040	105	24441	1.936	ug/L	98
99)	p-Isopropyltoluene	10.124	119	21337	1.924	ug/L	99
100)	1,3-Dichlorobenzene	10.166	146	11077	1.992	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	11326	2.011	ug/L #	90
102)	p-Diethylbenzene	10.329	119	12785	1.924	ug/L	95
103)	n-Butylbenzene	10.366	91	18879	1.952	ug/L	96
104)	1,2-Dichlorobenzene	10.460	146	10695	2.005	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	20662	2.074	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.911	155	823	1.771	ug/L #	76
107)	1,3,5-Trichlorobenzene	10.921	180	8198	1.997	ug/L	95
108)	Hexachlorobutadiene	11.262	225	3804	1.978	ug/L	92
109)	1,2,4-Trichlorobenzene	11.283	180	7707	1.973	ug/L	95
110)	Naphthalene	11.467	128	19791	2.042	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	7416	2.000	ug/L	99

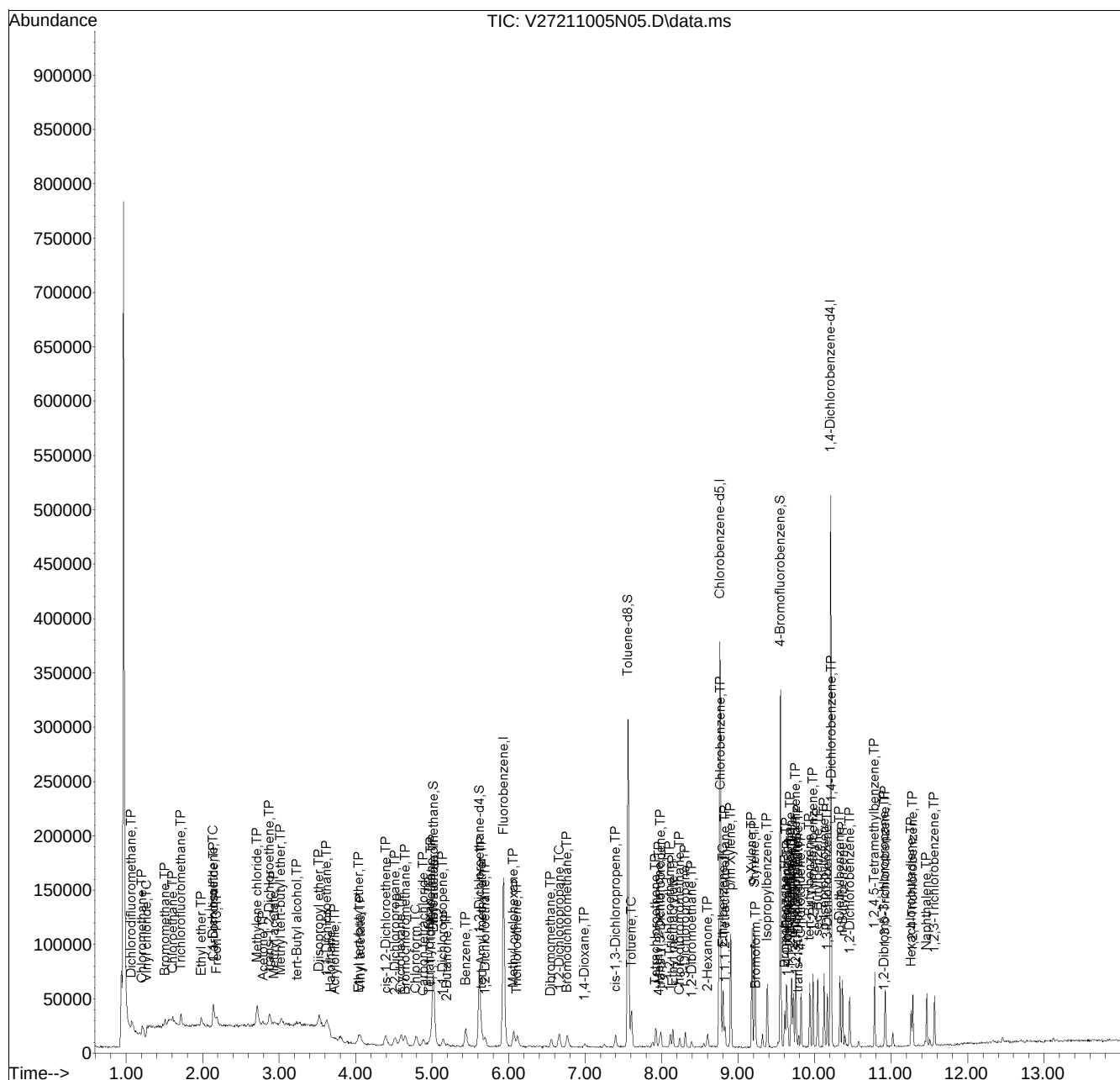
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N05.D
 Acq On : 05 Oct 2021 09:06 pm
 Operator : VOA127:JC
 Sample : I8260STD2.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 13:13:15 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

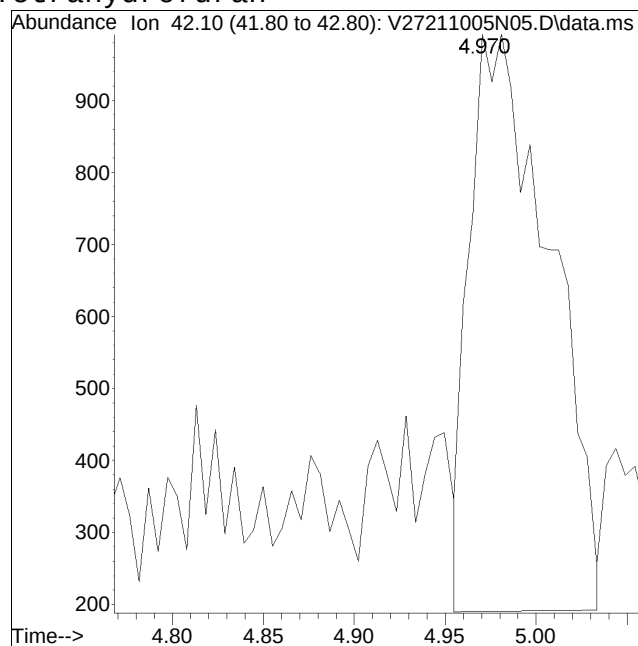
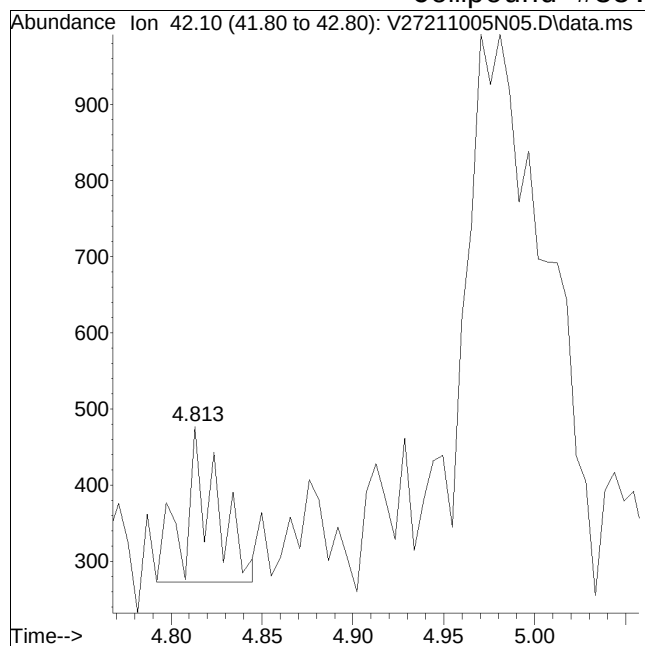
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N05.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:06 pm Instrument : VOA127
Sample : I8260STD2.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 250

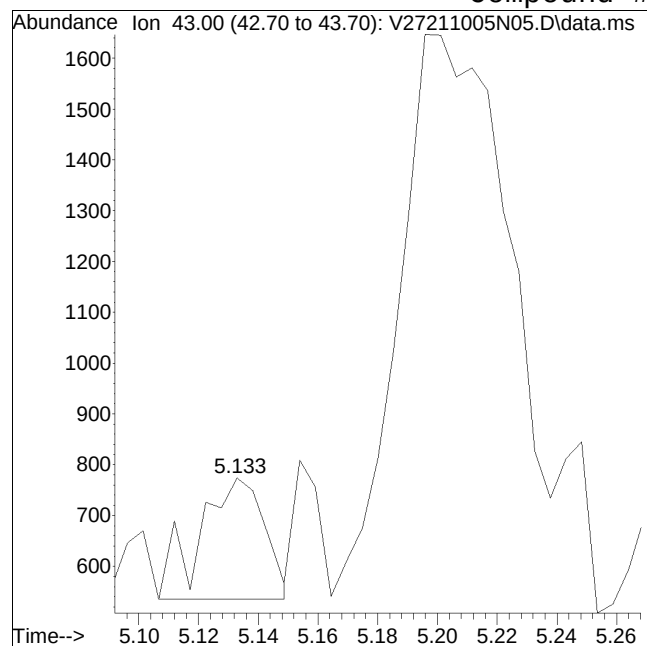
Manual Peak Response = 2440 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

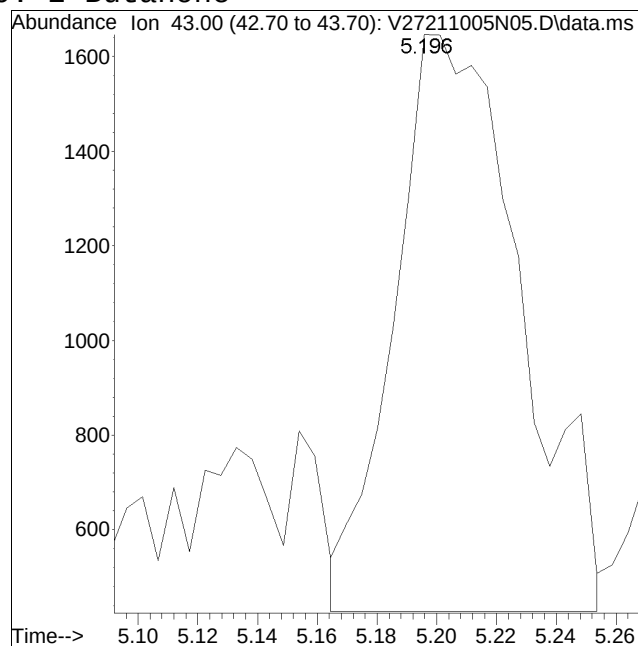
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N05.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:06 pm Instrument : VOA127
Sample : I8260STD2.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #39: 2-Butanone



Original Peak Response = 363

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

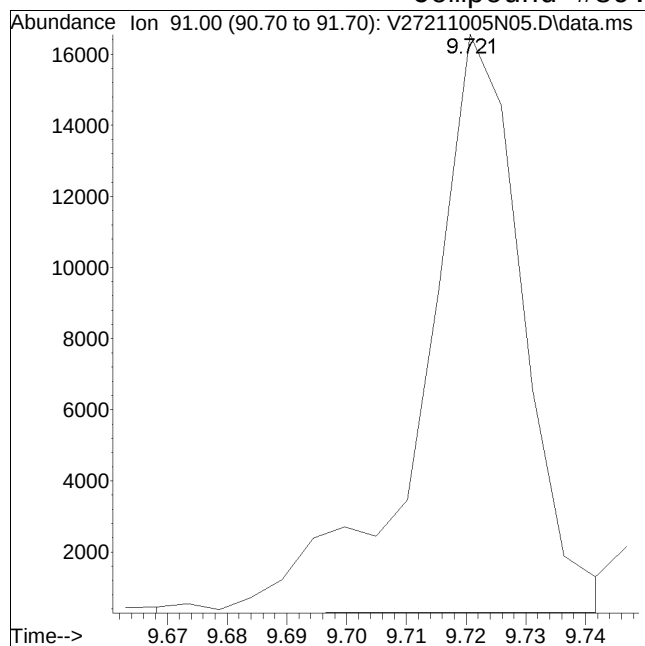


Manual Peak Response = 3565 M3

Manual Integration Report

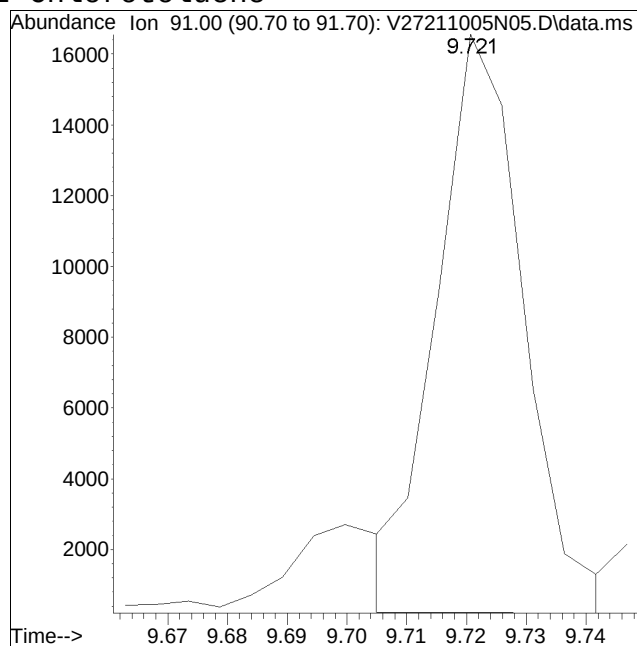
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Data File : V27211005N05.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:06 pm Instrument : VOA127
Sample : I8260STD2.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 18870

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 16400 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N06.D
 Acq On : 05 Oct 2021 09:26 pm
 Operator : VOA127:JC
 Sample : I8260STD4.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 13:13:27 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	139370	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	88.23%	
59) Chlorobenzene-d5	8.761	117	125409	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	97.53%	
79) 1,4-Dichlorobenzene-d4	10.208	152	74649	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	105.54%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	45746	21.574	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	107.87%	
43) 1,2-Dichloroethane-d4	5.615	65	49089	20.894	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	104.47%	
60) Toluene-d8	7.560	98	162874	19.864	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.32%	
83) 4-Bromofluorobenzene	9.553	95	69187	19.575	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.88%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	10809	4.652	ug/L	95
3) Chloromethane	1.211	50	22038	4.656	ug/L	97
4) Vinyl chloride	1.269	62	12651	4.780	ug/L	91
5) Bromomethane	1.510	94	7068	4.172	ug/L	91
6) Chloroethane	1.609	64	8392	4.555	ug/L	91
7) Trichlorofluoromethane	1.720	101	13557	4.607	ug/L	98
8) Ethyl ether	1.987	74	4622	3.890	ug/L	94
10) 1,1-Dichloroethene	2.139	96	9648	5.016	ug/L #	62
11) Carbon disulfide	2.144	76	26037	4.557	ug/L #	82
12) Freon-113	2.186	101	6807	4.333	ug/L	92
15) Methylene chloride	2.711	84	12697	3.706	ug/L	86
17) Acetone	2.789	43	7195M3	4.530	ug/L	
18) trans-1,2-Dichloroethene	2.873	96	8896	4.141	ug/L	86
19) Methyl acetate	2.931	43	8818	5.175	ug/L #	97
20) Methyl tert-butyl ether	3.036	73	18630	3.782	ug/L #	91
21) tert-Butyl alcohol	3.240	59	8232	25.062	ug/L #	28
22) Diisopropyl ether	3.528	45	25247	3.873	ug/L #	86
23) 1,1-Dichloroethane	3.618	63	20252	4.532	ug/L	87
24) Halothane	3.806	117	6312	4.351	ug/L	98
25) Acrylonitrile	3.733	53	4192	4.406	ug/L	91
26) Ethyl tert-butyl ether	4.048	59	22647	3.845	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N06.D
 Acq On : 05 Oct 2021 09:26 pm
 Operator : VOA127:JC
 Sample : I8260STD4.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 13:13:27 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.063	43	16950	3.550	ug/L	98
28) cis-1,2-Dichloroethene	4.394	96	11170	4.460	ug/L #	78
29) 2,2-Dichloropropane	4.514	77	14482	4.383	ug/L	94
30) Bromochloromethane	4.645	128	5952	4.886	ug/L #	63
31) Cyclohexane	4.598	56	14390	3.908	ug/L	82
32) Chloroform	4.797	83	17863	4.431	ug/L	98
33) Ethyl acetate	5.018	43	9039	4.026	ug/L #	89
34) Carbon tetrachloride	4.881	117	10583	4.086	ug/L	99
35) Tetrahydrofuran	4.976	42	4587M6	4.574	ug/L	
37) 1,1,1-Trichloroethane	4.981	97	12723	4.061	ug/L #	97
39) 2-Butanone	5.206	43	5992	4.158	ug/L #	86
40) 1,1-Dichloropropene	5.143	75	8285	3.659	ug/L	92
41) Benzene	5.437	78	29400	3.978	ug/L	96
42) tert-Amyl methyl ether	5.647	73	18279	3.940	ug/L	94
44) 1,2-Dichloroethane	5.699	62	12493	4.274	ug/L	93
47) Methyl cyclohexane	6.066	83	12509	4.089	ug/L	86
48) Trichloroethene	6.113	95	6758	3.554	ug/L	91
50) Dibromomethane	6.559	93	5863	4.466	ug/L	95
51) 1,2-Dichloropropane	6.664	63	7896	3.766	ug/L #	93
54) Bromodichloromethane	6.763	83	11101	3.833	ug/L	98
57) 1,4-Dioxane	6.989	88	5516	219.439	ug/L	95
58) cis-1,3-Dichloropropene	7.398	75	10345	3.677	ug/L #	94
61) Toluene	7.608	92	22733	4.062	ug/L	95
62) 4-Methyl-2-pentanone	7.975	58	3608	3.954	ug/L #	87
63) Tetrachloroethene	7.922	166	8548	4.007	ug/L	89
65) trans-1,3-Dichloropropene	7.990	75	10124	3.495	ug/L	89
67) Ethyl methacrylate	8.148	69	12058	4.082	ug/L	94
68) 1,1,2-Trichloroethane	8.111	83	5160	3.535	ug/L	95
69) Chlorodibromomethane	8.237	129	6982	3.459	ug/L	98
70) 1,3-Dichloropropane	8.310	76	10427	3.545	ug/L	99
71) 1,2-Dibromoethane	8.394	107	6150	3.721	ug/L	99
72) 2-Hexanone	8.604	43	7863	3.975	ug/L #	92
73) Chlorobenzene	8.772	112	25264	4.142	ug/L	97
74) Ethylbenzene	8.803	91	45160	4.218	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.824	131	6659	3.554	ug/L	91
76) p/m Xylene	8.903	106	37735	8.558	ug/L	95
77) o Xylene	9.181	106	36043	8.484	ug/L	92
78) Styrene	9.217	104	60136	8.274	ug/L	91
80) Bromoform	9.228	173	4945	3.601	ug/L	94
82) Isopropylbenzene	9.380	105	46122	4.043	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N06.D
 Acq On : 05 Oct 2021 09:26 pm
 Operator : VOA127:JC
 Sample : I8260STD4.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 13:13:27 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.610	156	11023	3.953	ug/L	97
85)	n-Propylbenzene	9.631	91	55324	4.006	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	16197	3.632	ug/L	97
87)	1,1,2,2-Tetrachloroethane	9.689	83	8362	3.430	ug/L	100
88)	4-Ethyltoluene	9.700	105	47718	4.040	ug/L	98
89)	2-Chlorotoluene	9.721	91	34699M6	4.068	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	43251	4.155	ug/L	93
91)	1,2,3-Trichloropropane	9.763	75	7067	3.559	ug/L	96
92)	trans-1,4-Dichloro-2-b...	9.789	53	3806	4.068	ug/L #	91
93)	4-Chlorotoluene	9.820	91	36141	4.074	ug/L	97
94)	tert-Butylbenzene	9.936	119	34152	4.001	ug/L	97
97)	1,2,4-Trimethylbenzene	9.977	105	42132	4.042	ug/L	92
98)	sec-Butylbenzene	10.040	105	51965	4.066	ug/L	99
99)	p-Isopropyltoluene	10.124	119	46377	4.131	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	23728	4.214	ug/L	97
101)	1,4-Dichlorobenzene	10.219	146	22906	4.017	ug/L	93
102)	p-Diethylbenzene	10.329	119	27732	4.123	ug/L	93
103)	n-Butylbenzene	10.365	91	40190	4.105	ug/L	96
104)	1,2-Dichlorobenzene	10.460	146	21582	3.996	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.785	119	41118	4.076	ug/L	96
106)	1,2-Dibromo-3-chloropr...	10.911	155	2045	4.347	ug/L	98
107)	1,3,5-Trichlorobenzene	10.927	180	17253	4.151	ug/L	95
108)	Hexachlorobutadiene	11.262	225	8246	4.236	ug/L	93
109)	1,2,4-Trichlorobenzene	11.283	180	16230	4.103	ug/L	98
110)	Naphthalene	11.467	128	40029	4.080	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	15279	4.070	ug/L	98

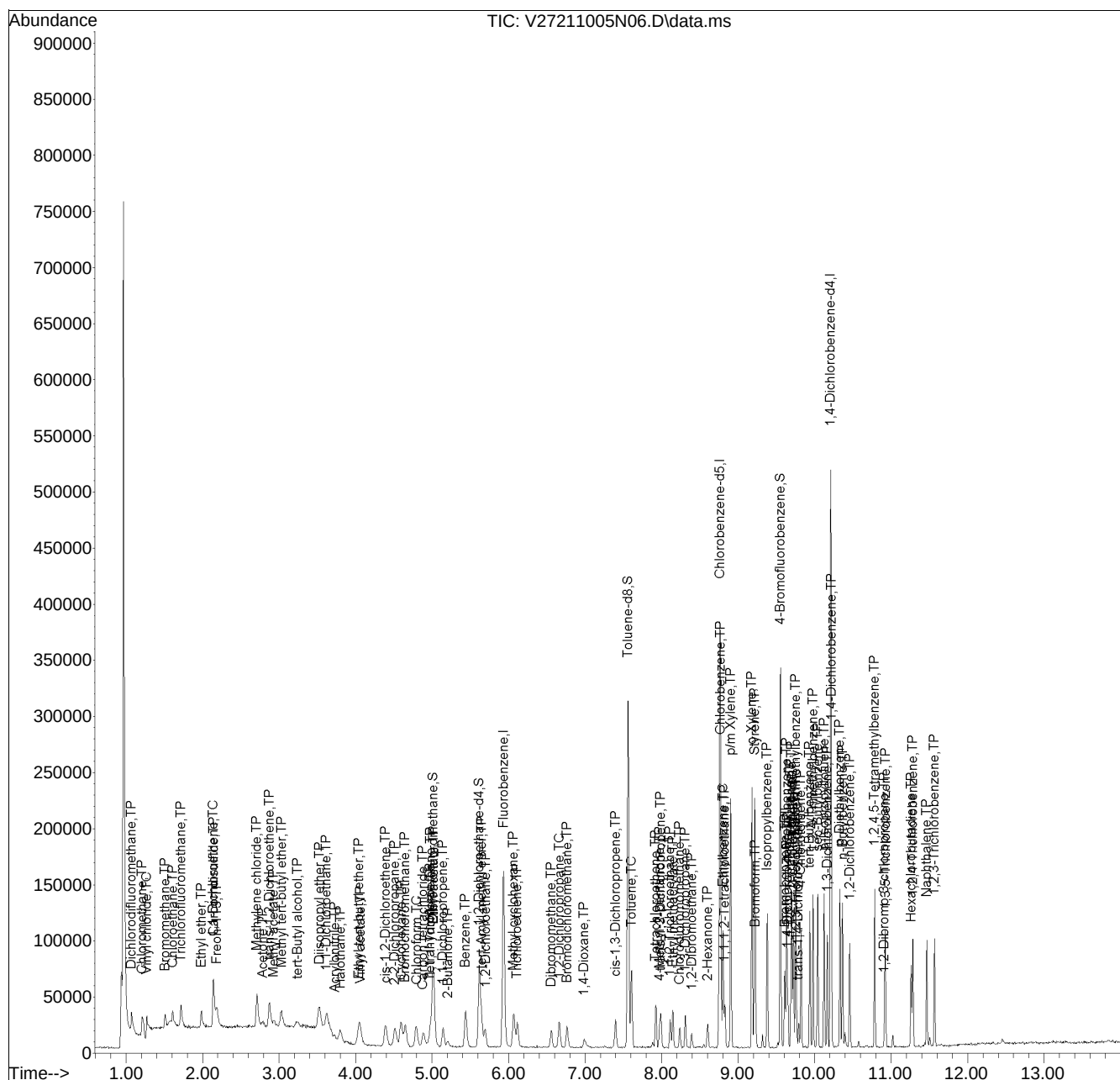
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N06.D
 Acq On : 05 Oct 2021 09:26 pm
 Operator : VOA127:JC
 Sample : I8260STD4.0PPB
 Misc : WG1555130,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 13:13:27 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

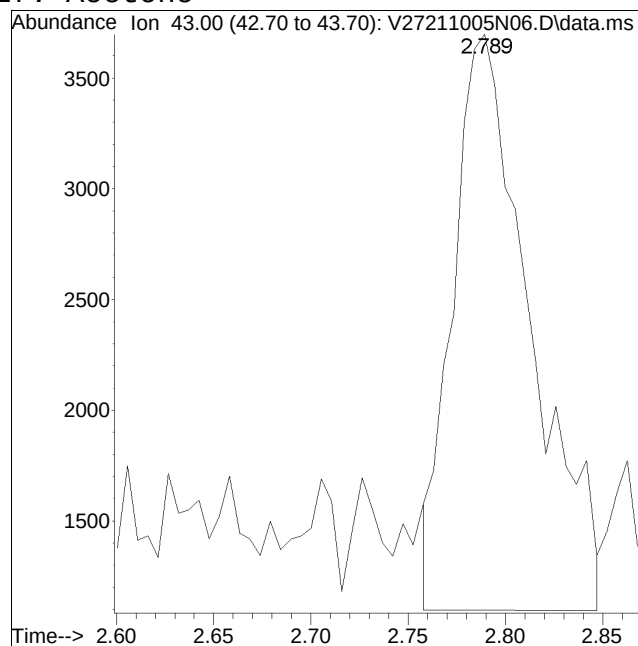
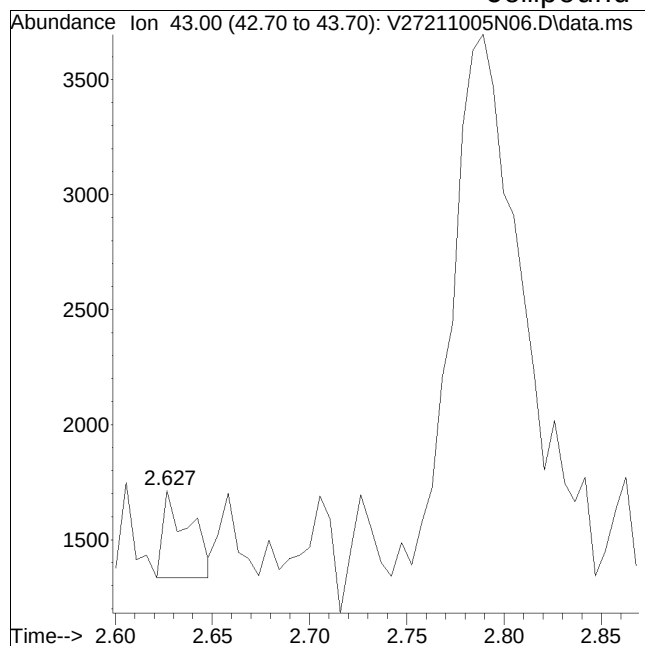
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N06.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:26 pm Instrument : VOA127
Sample : I8260STD4.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #17: Acetone



Original Peak Response = 358

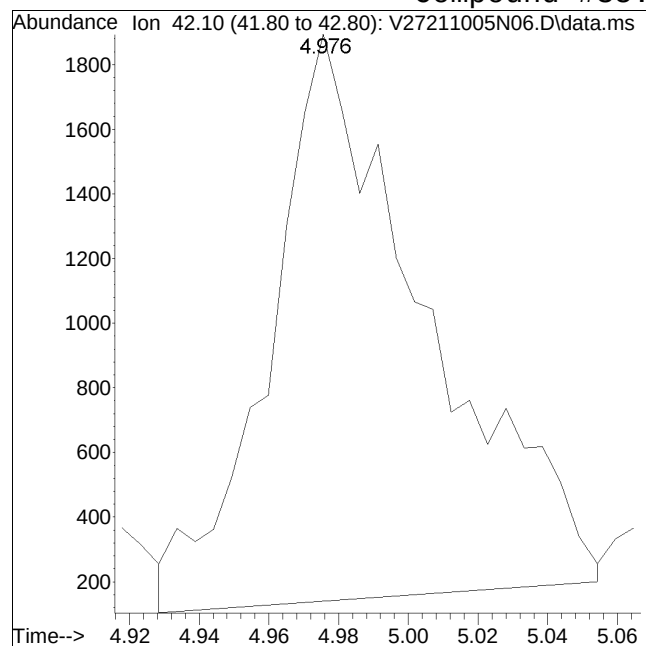
Manual Peak Response = 7195 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

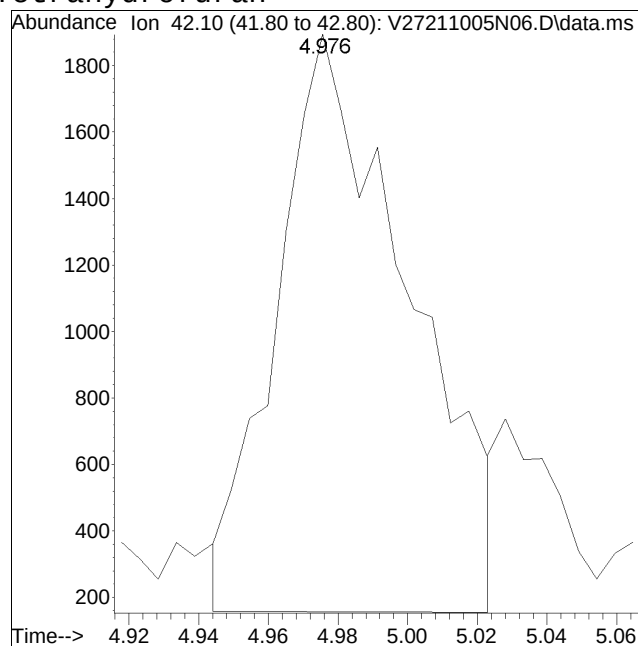
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N06.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:26 pm Instrument : VOA127
Sample : I8260STD4.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 5476

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

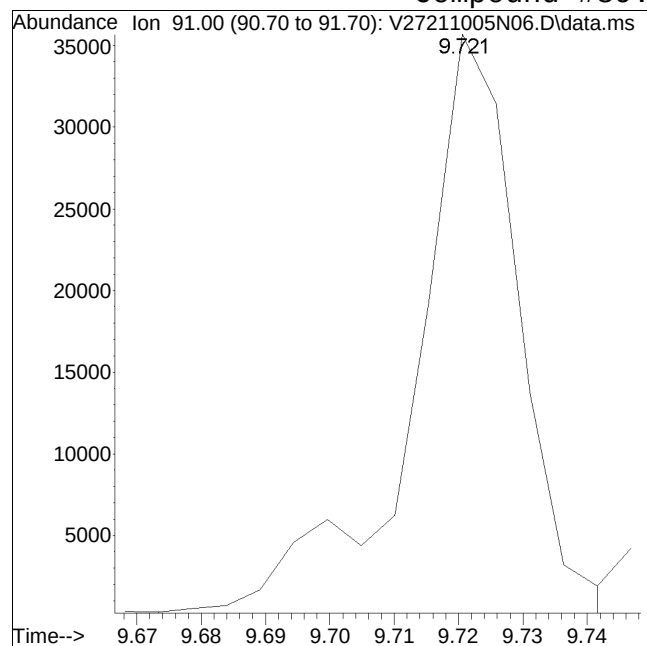


Manual Peak Response = 4587 M6

Manual Integration Report

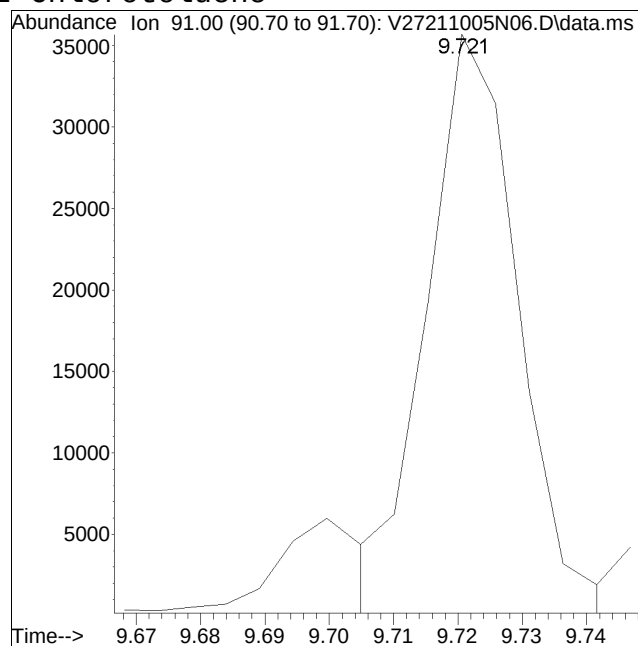
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N06.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:26 pm Instrument : VOA127
Sample : I8260STD4.0PPB Quant Date : 10/6/2021 1:13 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 39640

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 34699 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N07.D
 Acq On : 05 Oct 2021 09:47 pm
 Operator : VOA127:JC
 Sample : I8260STD20PPB
 Misc : WG1555130,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 13:13:38 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	156528	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	99.09%	
59) Chlorobenzene-d5	8.761	117	133701	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	103.98%	
79) 1,4-Dichlorobenzene-d4	10.208	152	74561	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	105.41%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	47440	19.920	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.60%	
43) 1,2-Dichloroethane-d4	5.615	65	52723	19.981	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.91%	
60) Toluene-d8	7.561	98	174027	19.908	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.54%	
83) 4-Bromofluorobenzene	9.553	95	71187	20.164	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.82%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	52657	20.179	ug/L	99
3) Chloromethane	1.211	50	103217	19.418	ug/L	98
4) Vinyl chloride	1.274	62	61767	20.777	ug/L	93
5) Bromomethane	1.510	94	30130	21.484	ug/L	97
6) Chloroethane	1.610	64	36347	17.567	ug/L	95
7) Trichlorofluoromethane	1.720	101	67985	20.568	ug/L	99
8) Ethyl ether	1.987	74	25301	18.961	ug/L	90
10) 1,1-Dichloroethene	2.139	96	40287	18.650	ug/L	79
11) Carbon disulfide	2.144	76	129516	20.185	ug/L	96
12) Freon-113	2.186	101	36204	20.518	ug/L	95
15) Methylene chloride	2.711	84	53899	21.768	ug/L	85
17) Acetone	2.789	43	22314	18.920	ug/L	89
18) trans-1,2-Dichloroethene	2.873	96	45477	18.847	ug/L	86
19) Methyl acetate	2.936	43	39818	20.805	ug/L #	98
20) Methyl tert-butyl ether	3.030	73	103980	18.796	ug/L	97
21) tert-Butyl alcohol	3.235	59	36417	98.717	ug/L #	71
22) Diisopropyl ether	3.523	45	143700	19.629	ug/L	97
23) 1,1-Dichloroethane	3.623	63	97674	19.463	ug/L	98
24) Halothane	3.806	117	31638	19.419	ug/L	98
25) Acrylonitrile	3.723	53	22126	20.708	ug/L	97
26) Ethyl tert-butyl ether	4.042	59	126223	19.081	ug/L #	83

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N07.D
 Acq On : 05 Oct 2021 09:47 pm
 Operator : VOA127:JC
 Sample : I8260STD20PPB
 Misc : WG1555130,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 13:13:38 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	104026	19.401	ug/L	96
28) cis-1,2-Dichloroethene	4.394	96	53095	18.875	ug/L #	78
29) 2,2-Dichloropropane	4.519	77	71980	19.396	ug/L	97
30) Bromochloromethane	4.651	128	26620	19.456	ug/L #	72
31) Cyclohexane	4.598	56	83010	20.074	ug/L	86
32) Chloroform	4.792	83	85477	18.880	ug/L	98
33) Ethyl acetate	5.018	43	47772	18.945	ug/L #	95
34) Carbon tetrachloride	4.887	117	59359	20.405	ug/L	99
35) Tetrahydrofuran	4.970	42	17824M6	20.672	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	67276	19.118	ug/L #	96
39) 2-Butanone	5.201	43	30571	18.887	ug/L #	86
40) 1,1-Dichloropropene	5.143	75	49271	17.888	ug/L	95
41) Benzene	5.437	78	159998	19.275	ug/L	95
42) tert-Amyl methyl ether	5.642	73	100485	19.285	ug/L	94
44) 1,2-Dichloroethane	5.694	62	65571	19.972	ug/L	96
47) Methyl cyclohexane	6.066	83	64873	18.882	ug/L	90
48) Trichloroethene	6.113	95	39097	18.309	ug/L	94
50) Dibromomethane	6.559	93	28330	19.213	ug/L	93
51) 1,2-Dichloropropane	6.664	63	46351	19.686	ug/L #	93
54) Bromodichloromethane	6.764	83	60188	18.505	ug/L	97
57) 1,4-Dioxane	6.989	88	29275	1036.964	ug/L #	87
58) cis-1,3-Dichloropropene	7.398	75	62971	19.929	ug/L	97
61) Toluene	7.608	92	114122	19.127	ug/L	94
62) 4-Methyl-2-pentanone	7.969	58	18598	19.120	ug/L #	93
63) Tetrachloroethene	7.928	166	44959	19.767	ug/L	88
65) trans-1,3-Dichloropropene	7.990	75	58573	18.967	ug/L	97
67) Ethyl methacrylate	8.148	69	55719	17.693	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	27445	17.637	ug/L	93
69) Chlorodibromomethane	8.237	129	39927	18.552	ug/L	96
70) 1,3-Dichloropropane	8.310	76	58820	18.757	ug/L	98
71) 1,2-Dibromoethane	8.394	107	33846	19.208	ug/L	98
72) 2-Hexanone	8.604	43	38522	18.268	ug/L	95
73) Chlorobenzene	8.772	112	126025	19.380	ug/L	94
74) Ethylbenzene	8.803	91	226366	19.829	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	38853	19.451	ug/L	94
76) p/m Xylene	8.903	106	183389	39.014	ug/L	96
77) o Xylene	9.181	106	175643	38.778	ug/L	92
78) Styrene	9.217	104	303611	39.182	ug/L	90
80) Bromoform	9.233	173	25655	18.704	ug/L	97
82) Isopropylbenzene	9.380	105	226773	19.901	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N07.D
 Acq On : 05 Oct 2021 09:47 pm
 Operator : VOA127:JC
 Sample : I8260STD20PPB
 Misc : WG1555130,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 13:13:38 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	54928	19.721	ug/L	99
85)	n-Propylbenzene	9.632	91	275384	19.965	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	85124	19.112	ug/L	92
87)	1,1,2,2-Tetrachloroethane	9.689	83	44160	18.137	ug/L	99
88)	4-Ethyltoluene	9.700	105	231689	19.637	ug/L	96
89)	2-Chlorotoluene	9.721	91	165577M6	19.437	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	203953	19.614	ug/L	90
91)	1,2,3-Trichloropropane	9.763	75	38729	19.528	ug/L	97
92)	trans-1,4-Dichloro-2-b...	9.789	53	17024	18.218	ug/L	89
93)	4-Chlorotoluene	9.820	91	175084	19.758	ug/L	96
94)	tert-Butylbenzene	9.936	119	170833	20.038	ug/L	97
97)	1,2,4-Trimethylbenzene	9.978	105	204413	19.634	ug/L	94
98)	sec-Butylbenzene	10.041	105	255054	19.981	ug/L	99
99)	p-Isopropyltoluene	10.124	119	224261	19.998	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	111103	19.754	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	112680	19.784	ug/L	98
102)	p-Diethylbenzene	10.329	119	134058	19.952	ug/L	93
103)	n-Butylbenzene	10.366	91	198198	20.268	ug/L	97
104)	1,2-Dichlorobenzene	10.460	146	106599	19.761	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	201617	20.009	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.911	155	9106	19.378	ug/L	90
107)	1,3,5-Trichlorobenzene	10.921	180	83055	20.007	ug/L	95
108)	Hexachlorobutadiene	11.262	225	37621	19.347	ug/L	97
109)	1,2,4-Trichlorobenzene	11.283	180	79088	20.017	ug/L	98
110)	Naphthalene	11.467	128	187870	19.169	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	74419	19.849	ug/L	98

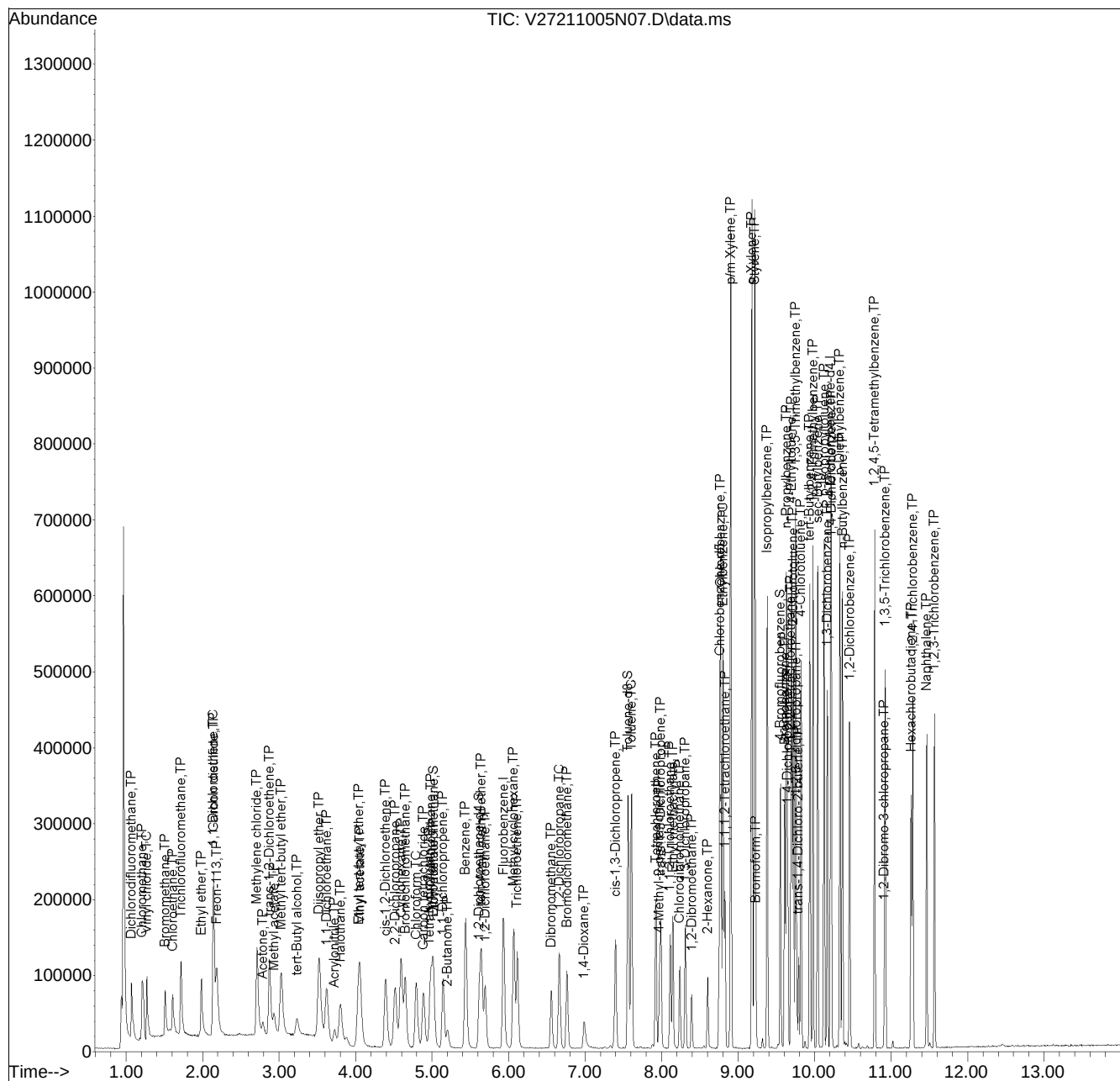
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N07.D
Acq On : 05 Oct 2021 09:47 pm
Operator : VOA127:JC
Sample : I8260STD20PPB
Misc : WG1555130,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 13:13:38 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

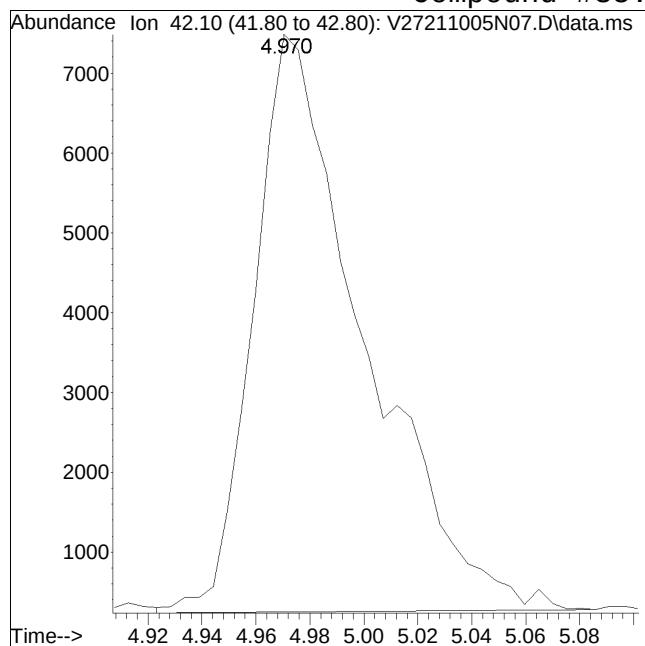
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

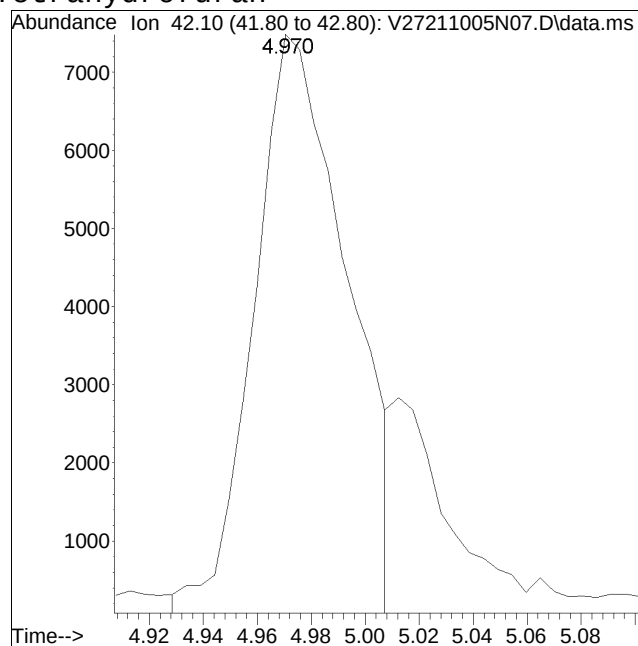
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Data File : V27211005N07.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:47 pm Instrument : VOA127
Sample : I8260STD20PPB Quant Date : 10/6/2021 1:13 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 20497

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

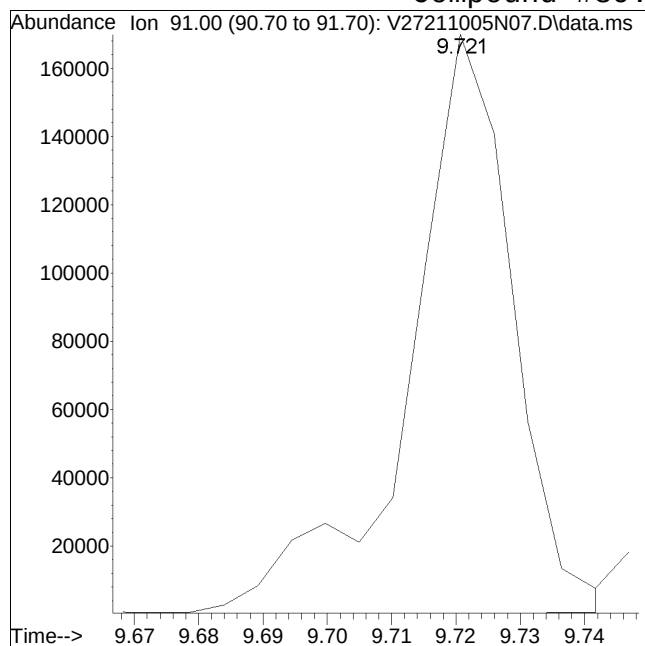


Manual Peak Response = 17824 M6

Manual Integration Report

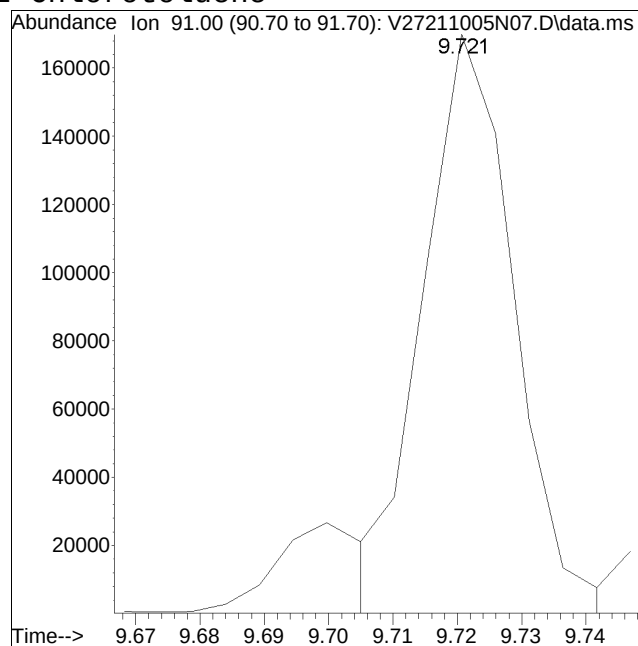
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Data File : V27211005N07.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 9:47 pm Instrument : VOA127
Sample : I8260STD20PPB Quant Date : 10/6/2021 1:13 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 189743

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 165577 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N08.D
 Acq On : 05 Oct 2021 10:07 pm
 Operator : VOA127:JC
 Sample : I8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:13:49 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	157962	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.761	117	128586	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	10.208	152	70732	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	46456	19.330	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	96.65%	
43) 1,2-Dichloroethane-d4	5.621	65	51805	19.455	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.27%	
60) Toluene-d8	7.561	98	169050	20.108	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.54%	
83) 4-Bromofluorobenzene	9.553	95	67346	20.109	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.55%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	108046	41.030	ug/L	100
3) Chloromethane	1.216	50	208711	38.907	ug/L	98
4) Vinyl chloride	1.274	62	124797	41.599	ug/L	94
5) Bromomethane	1.510	94	60901	45.057	ug/L	98
6) Chloroethane	1.610	64	73417	35.160	ug/L	96
7) Trichlorofluoromethane	1.720	101	141364	42.381	ug/L	97
8) Ethyl ether	1.987	74	53877	40.011	ug/L	87
10) 1,1-Dichloroethene	2.139	96	85504	39.222	ug/L	76
11) Carbon disulfide	2.144	76	266659	41.182	ug/L	95
12) Freon-113	2.186	101	75676	42.499	ug/L	94
15) Methylene chloride	2.711	84	103971	44.154	ug/L	87
17) Acetone	2.789	43	40458	36.892	ug/L	95
18) trans-1,2-Dichloroethene	2.873	96	90024	36.969	ug/L	89
19) Methyl acetate	2.931	43	75475	39.078	ug/L #	97
20) Methyl tert-butyl ether	3.025	73	228335	40.900	ug/L	99
21) tert-Butyl alcohol	3.230	59	71888	193.101	ug/L #	70
22) Diisopropyl ether	3.523	45	304778	41.255	ug/L	98
23) 1,1-Dichloroethane	3.623	63	195540	38.611	ug/L	98
24) Halothane	3.806	117	67259	40.907	ug/L	98
25) Acrylonitrile	3.728	53	42339	39.266	ug/L	96
26) Ethyl tert-butyl ether	4.042	59	276031	41.348	ug/L #	83

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N08.D
 Acq On : 05 Oct 2021 10:07 pm
 Operator : VOA127:JC
 Sample : I8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:13:49 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	230922	42.677	ug/L	96
28) cis-1,2-Dichloroethene	4.394	96	108959	38.383	ug/L #	79
29) 2,2-Dichloropropane	4.520	77	149249	39.852	ug/L	97
30) Bromochloromethane	4.651	128	53575	38.802	ug/L #	70
31) Cyclohexane	4.593	56	186261	44.633	ug/L	88
32) Chloroform	4.792	83	174556	38.206	ug/L	98
33) Ethyl acetate	5.012	43	101396	39.846	ug/L #	94
34) Carbon tetrachloride	4.887	117	126896	43.226	ug/L	98
35) Tetrahydrofuran	4.976	42	37397M6	45.105	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	144602	40.720	ug/L #	97
39) 2-Butanone	5.201	43	59055	36.154	ug/L #	84
40) 1,1-Dichloropropene	5.143	75	113455	40.371	ug/L	94
41) Benzene	5.437	78	345017	41.186	ug/L	96
42) tert-Amyl methyl ether	5.642	73	213752	40.651	ug/L	94
44) 1,2-Dichloroethane	5.694	62	135885	41.014	ug/L	98
47) Methyl cyclohexane	6.066	83	142095	40.982	ug/L	88
48) Trichloroethene	6.113	95	87433	40.573	ug/L	93
50) Dibromomethane	6.559	93	57193	38.436	ug/L	94
51) 1,2-Dichloropropane	6.664	63	102155	42.992	ug/L #	92
54) Bromodichloromethane	6.764	83	126073	38.410	ug/L	98
57) 1,4-Dioxane	6.984	88	57704	2025.407	ug/L #	87
58) cis-1,3-Dichloropropene	7.398	75	142492	44.687	ug/L	96
61) Toluene	7.608	92	234411	40.850	ug/L	95
62) 4-Methyl-2-pentanone	7.970	58	38002	40.622	ug/L #	93
63) Tetrachloroethene	7.928	166	95106	43.479	ug/L	89
65) trans-1,3-Dichloropropene	7.990	75	126211	42.495	ug/L	97
67) Ethyl methacrylate	8.148	69	115223	38.044	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	60474	40.407	ug/L	94
69) Chlorodibromomethane	8.237	129	86753	41.914	ug/L	96
70) 1,3-Dichloropropane	8.310	76	127318	42.215	ug/L	99
71) 1,2-Dibromoethane	8.394	107	73522	43.385	ug/L	98
72) 2-Hexanone	8.604	43	73765	36.372	ug/L	95
73) Chlorobenzene	8.772	112	257942	41.243	ug/L	94
74) Ethylbenzene	8.803	91	460095	41.907	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	82359	42.871	ug/L	96
76) p/m Xylene	8.903	106	368231	81.453	ug/L	97
77) o Xylene	9.181	106	353500	81.150	ug/L	92
78) Styrene	9.217	104	605908	81.305	ug/L	90
80) Bromoform	9.233	173	55439	42.606	ug/L	95
82) Isopropylbenzene	9.380	105	459907	42.545	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N08.D
 Acq On : 05 Oct 2021 10:07 pm
 Operator : VOA127:JC
 Sample : I8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:13:49 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	109001	41.254	ug/L	98
85)	n-Propylbenzene	9.632	91	558936	42.717	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	170728	40.408	ug/L	92
87)	1,1,2,2-Tetrachloroethane	9.689	83	90865	39.340	ug/L	100
88)	4-Ethyltoluene	9.700	105	471508	42.126	ug/L	97
89)	2-Chlorotoluene	9.721	91	337057M6	41.708	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	414280	41.998	ug/L	91
91)	1,2,3-Trichloropropane	9.763	75	78839	41.904	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.789	53	33537	37.832	ug/L	88
93)	4-Chlorotoluene	9.820	91	348943	41.510	ug/L	96
94)	tert-Butylbenzene	9.936	119	343062	42.417	ug/L	96
97)	1,2,4-Trimethylbenzene	9.978	105	415255	42.045	ug/L	95
98)	sec-Butylbenzene	10.041	105	515496	42.570	ug/L	98
99)	p-Isopropyltoluene	10.124	119	455297	42.797	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	223894	41.963	ug/L	98
101)	1,4-Dichlorobenzene	10.219	146	222204	41.125	ug/L	98
102)	p-Diethylbenzene	10.329	119	271660	42.621	ug/L	93
103)	n-Butylbenzene	10.366	91	396146	42.704	ug/L	96
104)	1,2-Dichlorobenzene	10.460	146	210324	41.099	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	398734	41.714	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.911	155	18266	40.975	ug/L	92
107)	1,3,5-Trichlorobenzene	10.921	180	163919	41.624	ug/L	95
108)	Hexachlorobutadiene	11.262	225	77211	41.855	ug/L	97
109)	1,2,4-Trichlorobenzene	11.283	180	155712	41.543	ug/L	98
110)	Naphthalene	11.467	128	376589	40.505	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	146604	41.219	ug/L	99

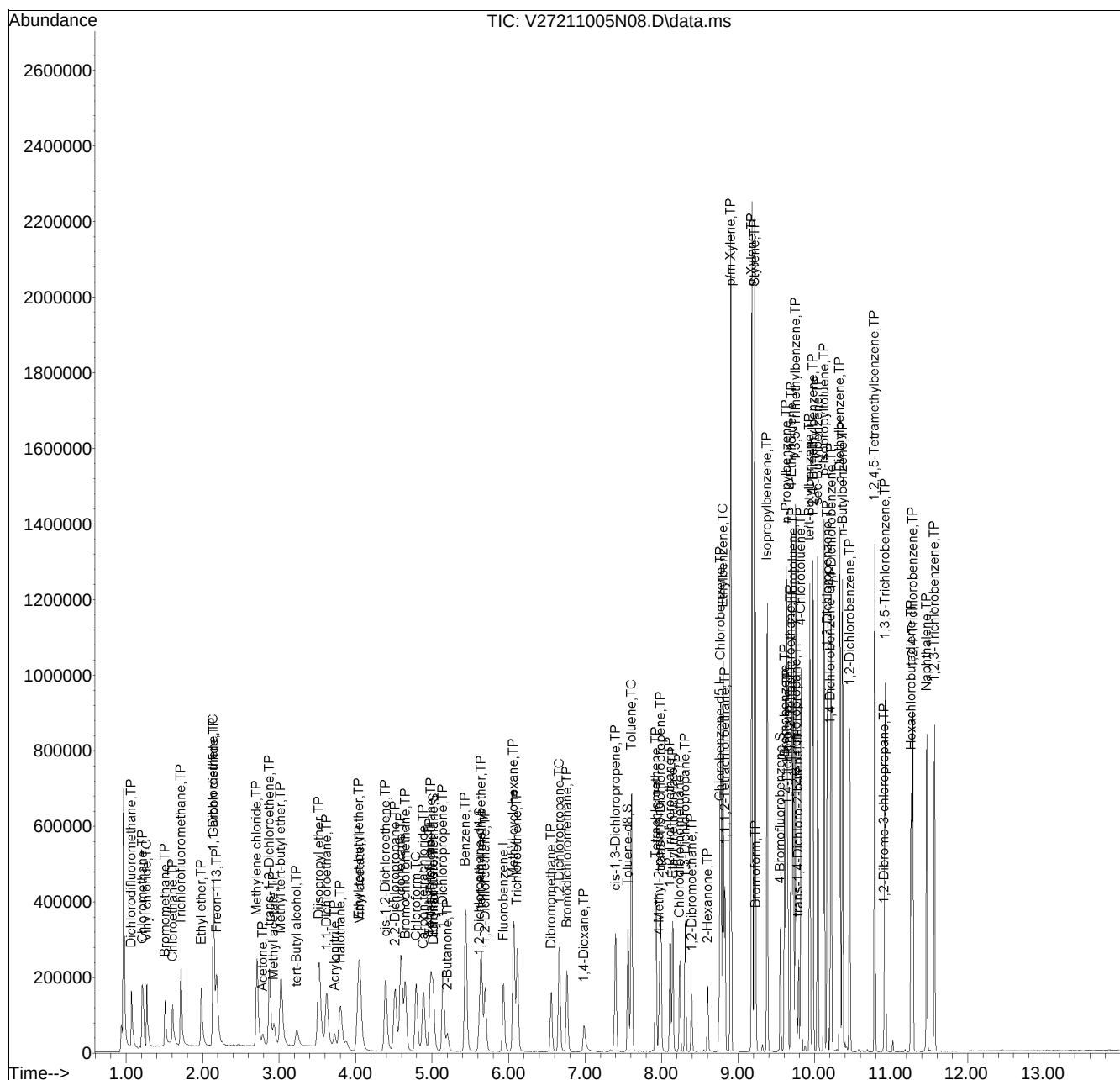
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N08.D
 Acq On : 05 Oct 2021 10:07 pm
 Operator : VOA127:JC
 Sample : I8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:13:49 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

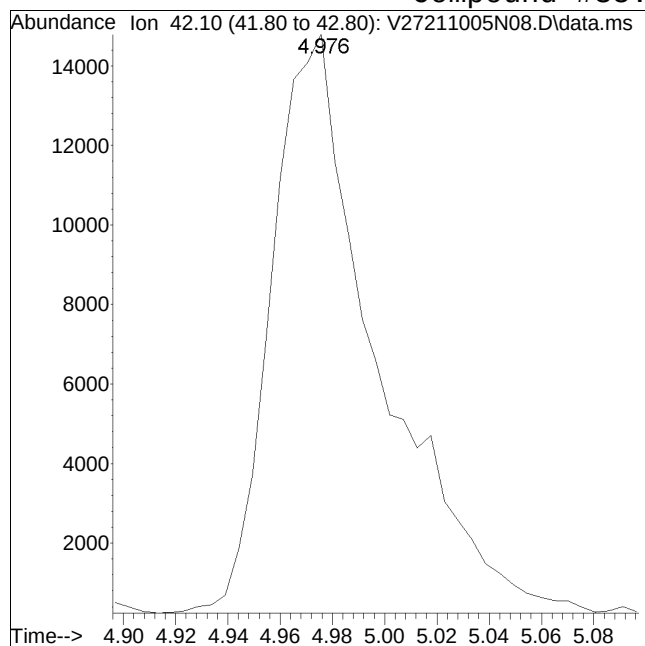
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

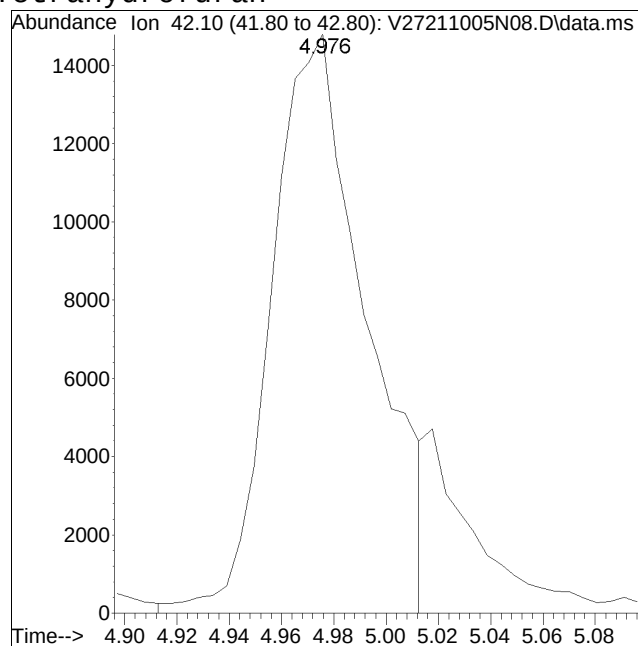
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N08.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:07 pm Instrument : VOA127
Sample : I8260STD40PPB Quant Date : 10/6/2021 1:13 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 40988

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

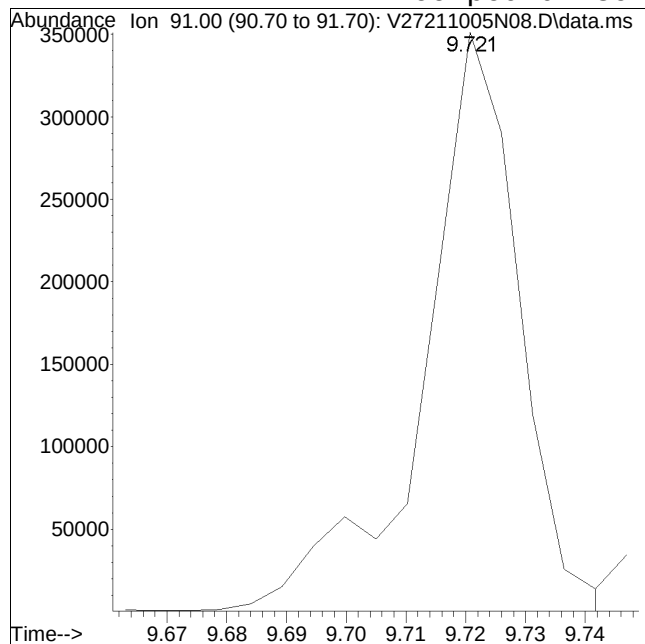


Manual Peak Response = 37397 M6

Manual Integration Report

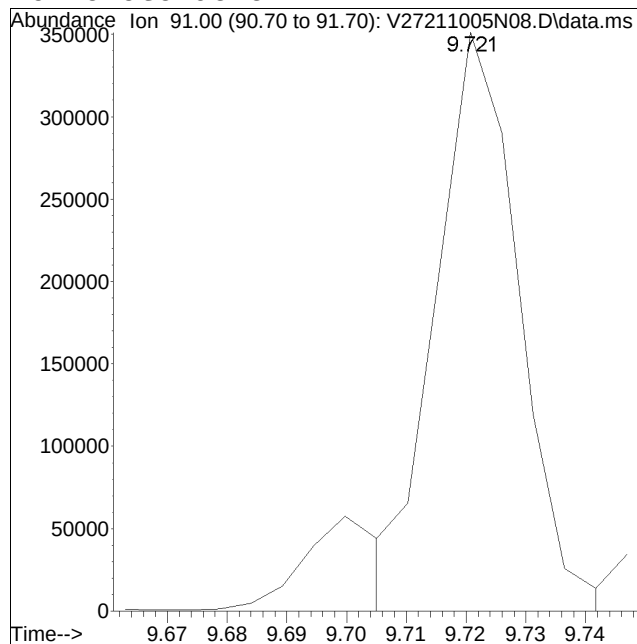
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N08.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:07 pm Instrument : VOA127
Sample : I8260STD40PPB Quant Date : 10/6/2021 1:13 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 386560

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 337057 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N09.D
 Acq On : 05 Oct 2021 10:28 pm
 Operator : VOA127:JC
 Sample : I8260STD100PPB
 Misc : WG1555130,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 13:14:01 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	169523	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery	=	107.32%	
59) Chlorobenzene-d5	8.761	117	129521	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery	=	100.73%	
79) 1,4-Dichlorobenzene-d4	10.208	152	70872	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery	=	100.20%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	46728	18.117	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	90.59%	
43) 1,2-Dichloroethane-d4	5.621	65	54689	19.138	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.69%	
60) Toluene-d8	7.561	98	172434	20.362	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.81%	
83) 4-Bromofluorobenzene	9.553	95	67293	20.053	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.27%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	264974	93.760	ug/L	99
3) Chloromethane	1.216	50	507907	88.225	ug/L	98
4) Vinyl chloride	1.274	62	311664	96.803	ug/L	97
5) Bromomethane	1.510	94	150883	106.661	ug/L	99
6) Chloroethane	1.604	64	176276	78.664	ug/L	98
7) Trichlorofluoromethane	1.714	101	348428	97.334	ug/L	97
8) Ethyl ether	1.987	74	137516	95.159	ug/L	87
10) 1,1-Dichloroethene	2.139	96	212800	90.958	ug/L	76
11) Carbon disulfide	2.144	76	655336	94.305	ug/L	97
12) Freon-113	2.186	101	196997	103.087	ug/L	97
15) Methylene chloride	2.711	84	254769	104.398	ug/L	87
17) Acetone	2.789	43	109637	98.705	ug/L	96
18) trans-1,2-Dichloroethene	2.878	96	235616	90.160	ug/L	87
19) Methyl acetate	2.936	43	182028	87.819	ug/L #	96
20) Methyl tert-butyl ether	3.025	73	620726	103.605	ug/L	98
21) tert-Butyl alcohol	3.235	59	168416	421.538	ug/L #	74
22) Diisopropyl ether	3.523	45	839818	105.925	ug/L	98
23) 1,1-Dichloroethane	3.623	63	501281	92.232	ug/L	99
24) Halothane	3.801	117	174849	99.091	ug/L	98
25) Acrylonitrile	3.728	53	101540	87.748	ug/L	96
26) Ethyl tert-butyl ether	4.037	59	771504	107.686	ug/L #	84

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N09.D
 Acq On : 05 Oct 2021 10:28 pm
 Operator : VOA127:JC
 Sample : I8260STD100PPB
 Misc : WG1555130,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 13:14:01 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	619392	106.664	ug/L	97
28) cis-1,2-Dichloroethene	4.394	96	277341	91.035	ug/L #	79
29) 2,2-Dichloropropane	4.514	77	378900	94.274	ug/L	97
30) Bromochloromethane	4.651	128	128803	86.925	ug/L #	71
31) Cyclohexane	4.593	56	483575	107.974	ug/L	86
32) Chloroform	4.792	83	440875	89.915	ug/L	98
33) Ethyl acetate	5.012	43	255582	93.589	ug/L #	95
34) Carbon tetrachloride	4.887	117	333729	105.929	ug/L	98
35) Tetrahydrofuran	4.965	42	79065M6	90.770	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	376202	98.713	ug/L #	97
39) 2-Butanone	5.201	43	158837	90.609	ug/L #	84
40) 1,1-Dichloropropene	5.143	75	312327	103.016	ug/L	95
41) Benzene	5.437	78	924753	102.863	ug/L	95
42) tert-Amyl methyl ether	5.642	73	579552	102.701	ug/L	93
44) 1,2-Dichloroethane	5.694	62	343519	96.612	ug/L	98
47) Methyl cyclohexane	6.066	83	379350	101.948	ug/L	89
48) Trichloroethene	6.113	95	242789	104.983	ug/L	93
50) Dibromomethane	6.554	93	144870	90.718	ug/L	94
51) 1,2-Dichloropropane	6.664	63	271987	106.660	ug/L #	94
54) Bromodichloromethane	6.764	83	334940	95.085	ug/L	98
57) 1,4-Dioxane	6.984	88	149282	4882.449	ug/L #	87
58) cis-1,3-Dichloropropene	7.398	75	391151	114.304	ug/L	96
61) Toluene	7.608	92	589392	101.969	ug/L	94
62) 4-Methyl-2-pentanone	7.969	58	92811	98.493	ug/L #	96
63) Tetrachloroethene	7.928	166	239091	108.515	ug/L	89
65) trans-1,3-Dichloropropene	7.990	75	345921	115.629	ug/L	99
67) Ethyl methacrylate	8.148	69	280614	91.984	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	160690	106.594	ug/L	94
69) Chlorodibromomethane	8.237	129	237874	114.097	ug/L	95
70) 1,3-Dichloropropane	8.310	76	340202	111.986	ug/L	100
71) 1,2-Dibromoethane	8.394	107	194742	114.088	ug/L	99
72) 2-Hexanone	8.604	43	187220	91.647	ug/L	96
73) Chlorobenzene	8.772	112	636906	101.102	ug/L	93
74) Ethylbenzene	8.803	91	1131025	102.274	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	222012	114.733	ug/L	95
76) p/m Xylene	8.903	106	900430	197.738	ug/L	96
77) o Xylene	9.181	106	860377	196.083	ug/L	91
78) Styrene	9.217	104	1476967	196.760	ug/L	91
80) Bromoform	9.233	173	143224	109.854	ug/L	95
82) Isopropylbenzene	9.380	105	1125408	103.903	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N09.D
 Acq On : 05 Oct 2021 10:28 pm
 Operator : VOA127:JC
 Sample : I8260STD100PPB
 Misc : WG1555130,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 13:14:01 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	271457	102.537	ug/L	99
85)	n-Propylbenzene	9.632	91	1357795	103.564	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	426360	100.711	ug/L	91
87)	1,1,2,2-Tetrachloroethane	9.689	83	224804	97.136	ug/L	100
88)	4-Ethyltoluene	9.700	105	1142451	101.868	ug/L	97
89)	2-Chlorotoluene	9.721	91	819778M6	101.240	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	1004106	101.591	ug/L	91
91)	1,2,3-Trichloropropane	9.763	75	193271	102.523	ug/L	99
92)	trans-1,4-Dichloro-2-b...	9.789	53	80623	90.768	ug/L #	85
93)	4-Chlorotoluene	9.820	91	843822	100.182	ug/L	96
94)	tert-Butylbenzene	9.936	119	844831	104.252	ug/L	97
97)	1,2,4-Trimethylbenzene	9.978	105	997223	100.770	ug/L	93
98)	sec-Butylbenzene	10.041	105	1246630	102.744	ug/L	98
99)	p-Isopropyltoluene	10.124	119	1102024	103.384	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	541330	101.257	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	544024	100.488	ug/L	99
102)	p-Diethylbenzene	10.329	119	660323	103.394	ug/L	94
103)	n-Butylbenzene	10.366	91	978783	105.303	ug/L	97
104)	1,2-Dichlorobenzene	10.460	146	511964	99.844	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	916215	95.663	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.911	155	43575	97.557	ug/L	93
107)	1,3,5-Trichlorobenzene	10.921	180	392950	99.585	ug/L	95
108)	Hexachlorobutadiene	11.262	225	187810	101.609	ug/L	96
109)	1,2,4-Trichlorobenzene	11.283	180	368413	98.097	ug/L	98
110)	Naphthalene	11.467	128	890253	95.564	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	344604	96.697	ug/L	99

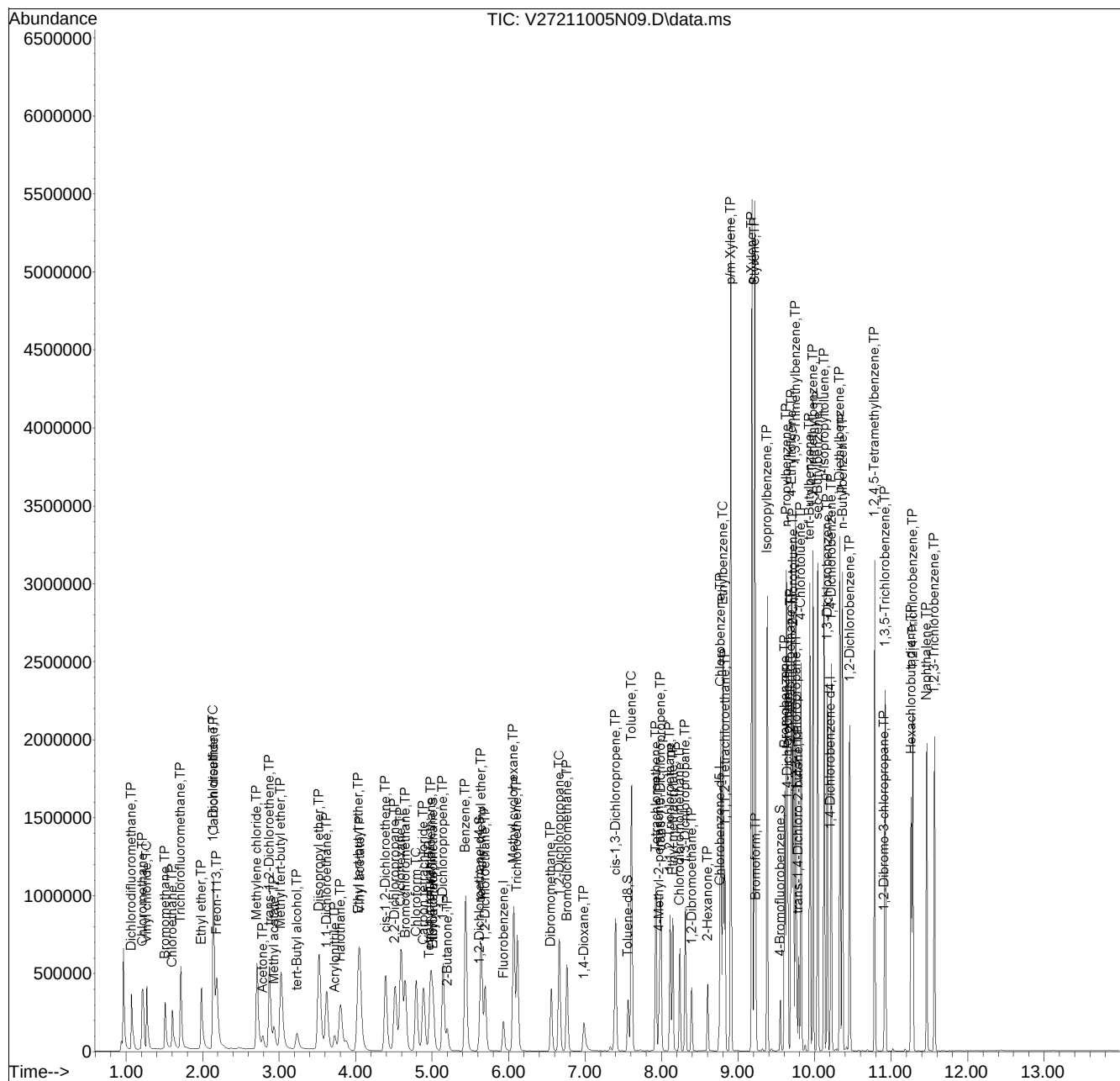
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N09.D
Acq On : 05 Oct 2021 10:28 pm
Operator : VOA127:JC
Sample : I8260STD100PPB
Misc : WG1555130,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 06 13:14:01 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

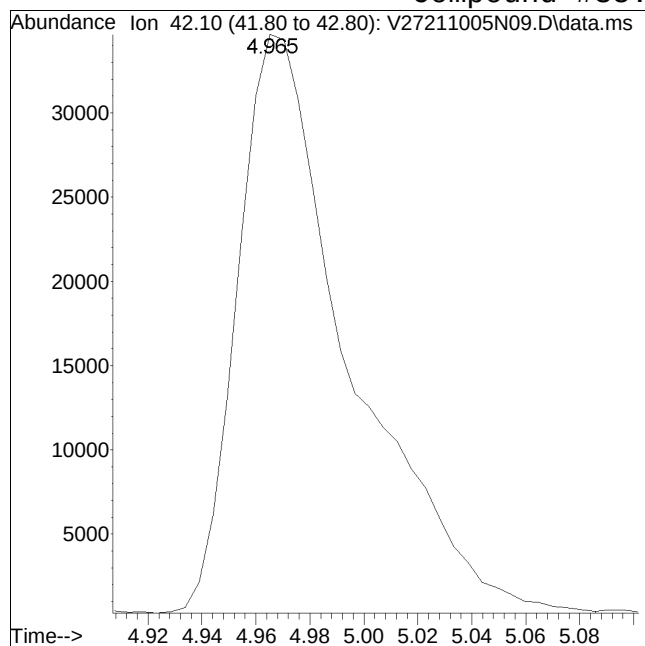
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

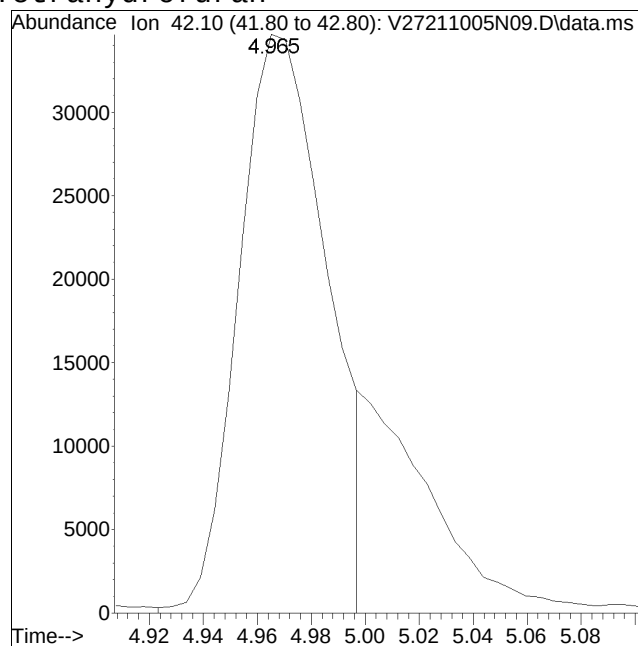
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N09.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:28 pm Instrument : VOA127
Sample : I8260STD100PPB Quant Date : 10/6/2021 1:13 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 99296

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

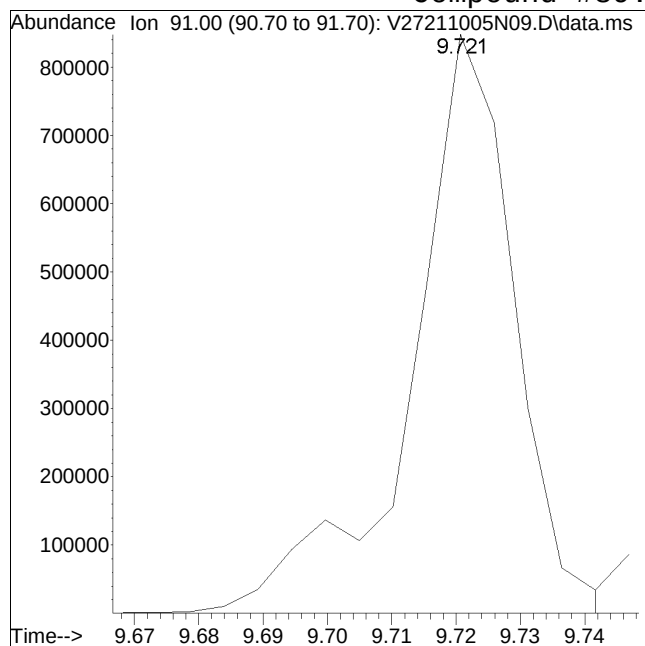


Manual Peak Response = 79065 M6

Manual Integration Report

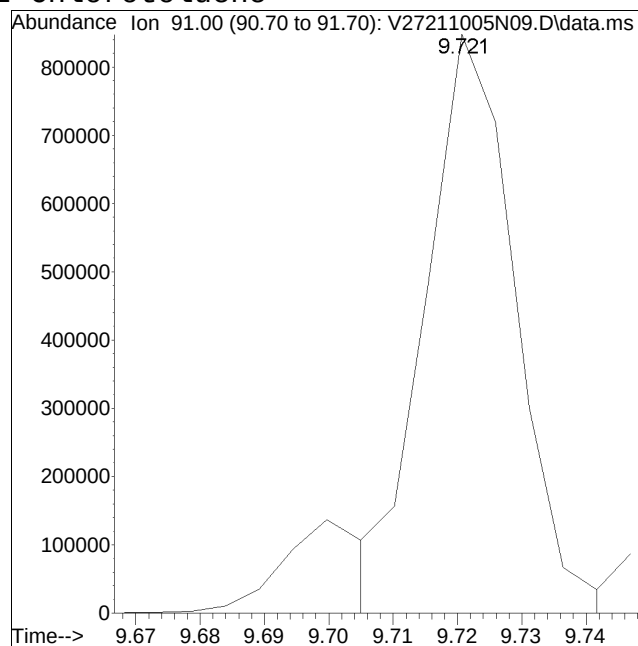
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N09.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:28 pm Instrument : VOA127
Sample : I8260STD100PPB Quant Date : 10/6/2021 1:13 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 938416

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 819778 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N10.D
 Acq On : 05 Oct 2021 10:48 pm
 Operator : VOA127:JC
 Sample : I8260STD200PPB
 Misc : WG1555130,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 13:14:12 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	175753	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery =	111.26%		
59) Chlorobenzene-d5	8.761	117	132181	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery =	102.80%		
79) 1,4-Dichlorobenzene-d4	10.208	152	69003	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery =	97.56%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	48195	18.024	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	90.12%		
43) 1,2-Dichloroethane-d4	5.615	65	56750	19.155	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	95.78%		
60) Toluene-d8	7.561	98	173833	20.114	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.57%		
83) 4-Bromofluorobenzene	9.553	95	67257	20.585	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.93%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	527563	180.058	ug/L	100
3) Chloromethane	1.222	50	976256	163.567	ug/L	99
4) Vinyl chloride	1.269	62	617104	184.878	ug/L	97
5) Bromomethane	1.510	94	292659	201.310	ug/L	99
6) Chloroethane	1.604	64	324149	139.525	ug/L	98
7) Trichlorofluoromethane	1.715	101	678268	182.759	ug/L	97
8) Ethyl ether	1.987	74	288862	192.803	ug/L	87
10) 1,1-Dichloroethene	2.139	96	422269	174.094	ug/L	77
11) Carbon disulfide	2.144	76	1303242	180.893	ug/L	96
12) Freon-113	2.186	101	402845	203.333	ug/L	96
15) Methylene chloride	2.711	84	502506	201.135	ug/L	87
17) Acetone	2.789	43	231698	204.979	ug/L	96
18) trans-1,2-Dichloroethene	2.873	96	475222	175.400	ug/L	88
19) Methyl acetate	2.936	43	392194	182.507	ug/L #	97
20) Methyl tert-butyl ether	3.025	73	1351768	217.625	ug/L	98
21) tert-Butyl alcohol	3.240	59	360868	871.219	ug/L #	75
22) Diisopropyl ether	3.523	45	1786186	217.304	ug/L	98
23) 1,1-Dichloroethane	3.623	63	993093	176.244	ug/L	100
24) Halothane	3.807	117	360283	196.944	ug/L	99
25) Acrylonitrile	3.728	53	209903	174.963	ug/L	97
26) Ethyl tert-butyl ether	4.037	59	1677616	225.861	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N10.D
 Acq On : 05 Oct 2021 10:48 pm
 Operator : VOA127:JC
 Sample : I8260STD200PPB
 Misc : WG1555130,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 13:14:12 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	1322232	219.626	ug/L	96
28) cis-1,2-Dichloroethene	4.394	96	561291	177.709	ug/L #	80
29) 2,2-Dichloropropane	4.520	77	769008	184.554	ug/L	97
30) Bromochloromethane	4.651	128	255385	166.242	ug/L #	69
31) Cyclohexane	4.593	56	992958	213.852	ug/L	87
32) Chloroform	4.792	83	902559	177.550	ug/L	98
33) Ethyl acetate	5.012	43	560899	198.109	ug/L #	95
34) Carbon tetrachloride	4.887	117	691869	211.821	ug/L	98
35) Tetrahydrofuran	4.965	42	180214M6	201.921	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	767225	194.180	ug/L #	97
39) 2-Butanone	5.196	43	341477	187.892	ug/L #	84
40) 1,1-Dichloropropene	5.144	75	647622	205.689	ug/L	95
41) Benzene	5.437	78	1885176	202.260	ug/L	95
42) tert-Amyl methyl ether	5.642	73	1268992	216.904	ug/L	93
44) 1,2-Dichloroethane	5.694	62	713607	193.583	ug/L	98
47) Methyl cyclohexane	6.066	83	792200	205.353	ug/L	88
48) Trichloroethene	6.114	95	496664	207.147	ug/L	93
50) Dibromomethane	6.554	93	305149	184.312	ug/L	93
51) 1,2-Dichloropropane	6.664	63	568344	214.975	ug/L #	93
54) Bromodichloromethane	6.764	83	695480	190.439	ug/L	99
57) 1,4-Dioxane	6.984	88	298189	9406.927	ug/L #	86
58) cis-1,3-Dichloropropene	7.398	75	828780	233.605	ug/L	95
61) Toluene	7.608	92	1173217	198.890	ug/L	94
62) 4-Methyl-2-pentanone	7.970	58	201673	209.713	ug/L #	96
63) Tetrachloroethene	7.922	166	485786	216.045	ug/L	88
65) trans-1,3-Dichloropropene	7.991	75	739180	242.110	ug/L	99
67) Ethyl methacrylate	8.148	69	583246	187.338	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	346006	224.905	ug/L	93
69) Chlorodibromomethane	8.237	129	509507	239.470	ug/L	96
70) 1,3-Dichloropropane	8.310	76	725910	234.142	ug/L	99
71) 1,2-Dibromoethane	8.394	107	414810	238.122	ug/L	98
72) 2-Hexanone	8.599	43	404302	193.930	ug/L	95
73) Chlorobenzene	8.772	112	1285968	200.025	ug/L	93
74) Ethylbenzene	8.803	91	2232475	197.811	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.829	131	475154	240.611	ug/L	95
76) p/m Xylene	8.903	106	1757783	378.247	ug/L	94
77) o Xylene	9.181	106	1679906	375.152	ug/L	89
78) Styrene	9.217	104	2850183	372.058	ug/L	92
80) Bromoform	9.233	173	313839	247.237	ug/L	96
82) Isopropylbenzene	9.380	105	2209028	209.472	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N10.D
 Acq On : 05 Oct 2021 10:48 pm
 Operator : VOA127:JC
 Sample : I8260STD200PPB
 Misc : WG1555130,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 13:14:12 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	541184	209.957	ug/L	97
85)	n-Propylbenzene	9.632	91	2643146	207.064	ug/L	95
86)	1,4-Dichlorobutane	9.647	55	884905	214.686	ug/L	92
87)	1,1,2,2-Tetrachloroethane	9.689	83	483284	214.479	ug/L	100
88)	4-Ethyltoluene	9.700	105	2230177	204.244	ug/L	96
89)	2-Chlorotoluene	9.721	91	1593907M6	202.175	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	1967238	204.427	ug/L	91
91)	1,2,3-Trichloropropane	9.763	75	411780	224.350	ug/L	99
92)	trans-1,4-Dichloro-2-b...	9.789	53	177023	204.697	ug/L #	85
93)	4-Chlorotoluene	9.826	91	1662275	202.697	ug/L	95
94)	tert-Butylbenzene	9.936	119	1661198	210.543	ug/L	96
97)	1,2,4-Trimethylbenzene	9.978	105	1943762	201.739	ug/L	92
98)	sec-Butylbenzene	10.041	105	2434922	206.116	ug/L	97
99)	p-Isopropyltoluene	10.124	119	2164242	208.534	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	1065078	204.621	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	1077261	204.373	ug/L	99
102)	p-Diethylbenzene	10.329	119	1293829	208.077	ug/L	95
103)	n-Butylbenzene	10.366	91	1903912	210.381	ug/L	97
104)	1,2-Dichlorobenzene	10.460	146	1010696	202.446	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	1866087	200.117	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.916	155	92032	211.625	ug/L	91
107)	1,3,5-Trichlorobenzene	10.927	180	779824	202.983	ug/L	95
108)	Hexachlorobutadiene	11.262	225	373062	207.300	ug/L	95
109)	1,2,4-Trichlorobenzene	11.283	180	743481	203.327	ug/L	98
110)	Naphthalene	11.467	128	1817848	200.423	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	698601	201.339	ug/L	99

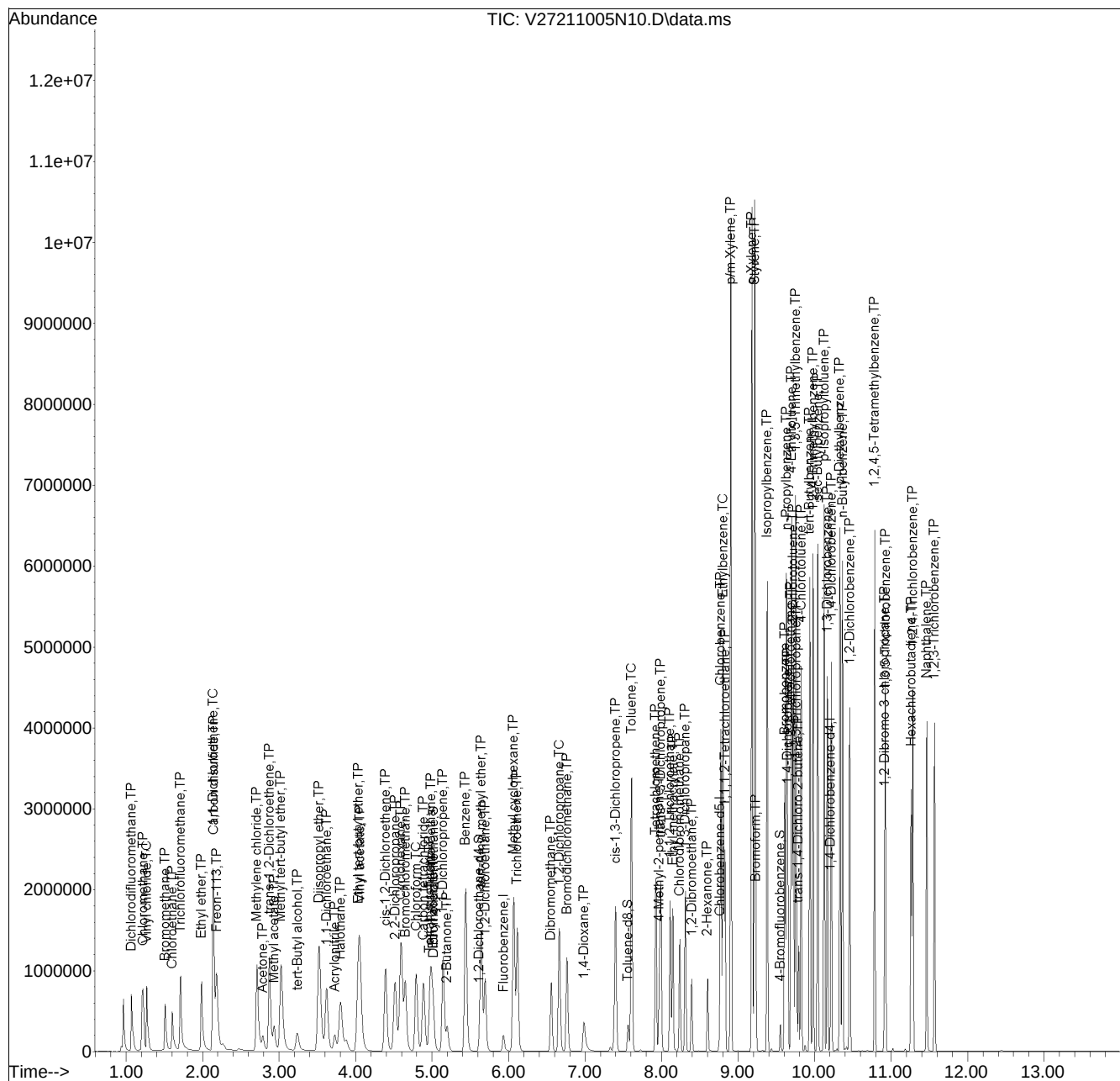
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N10.D
Acq On : 05 Oct 2021 10:48 pm
Operator : VOA127:JC
Sample : I8260STD200PPB
Misc : WG1555130,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 13:14:12 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

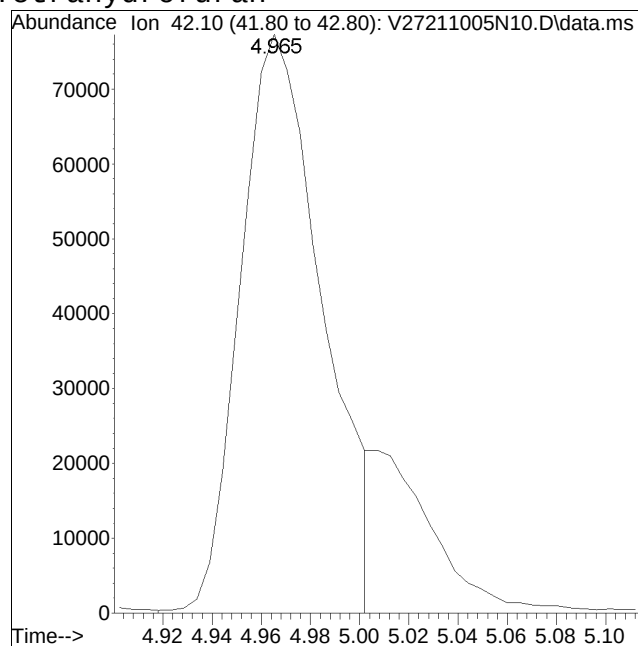
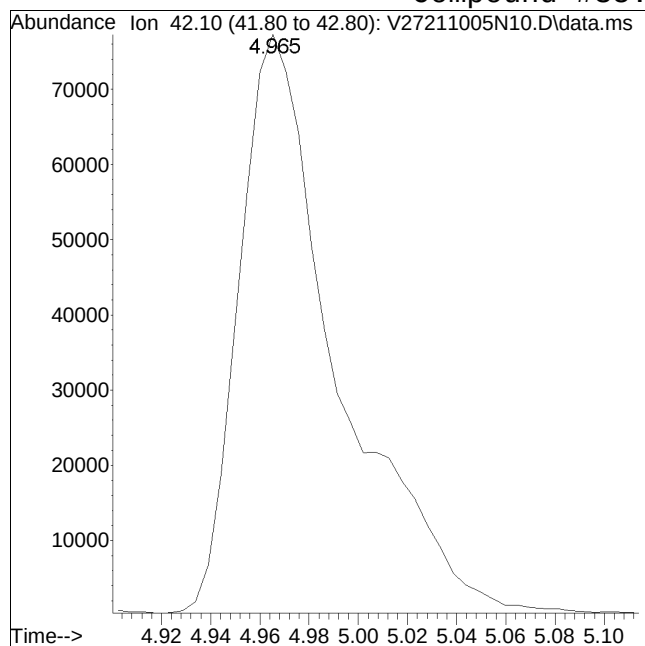
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N10.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:48 pm Instrument : VOA127
Sample : I8260STD200PPB Quant Date : 10/6/2021 1:14 pm

Compound #35: Tetrahydrofuran

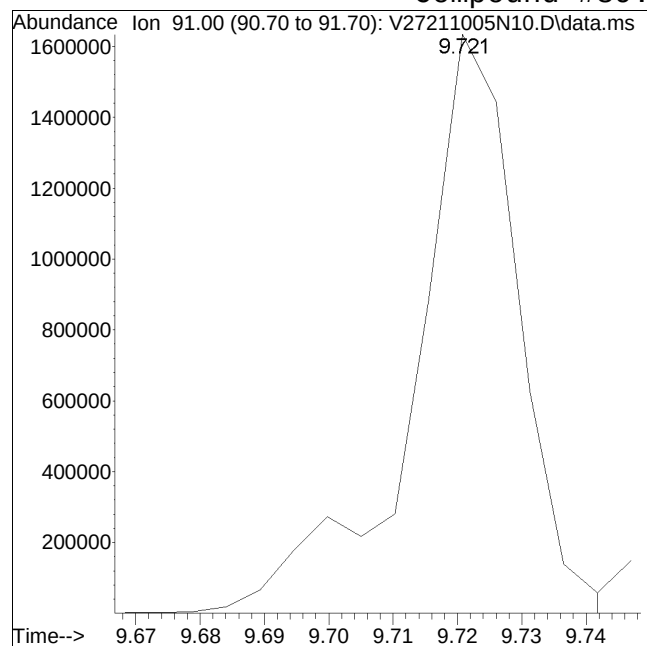


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

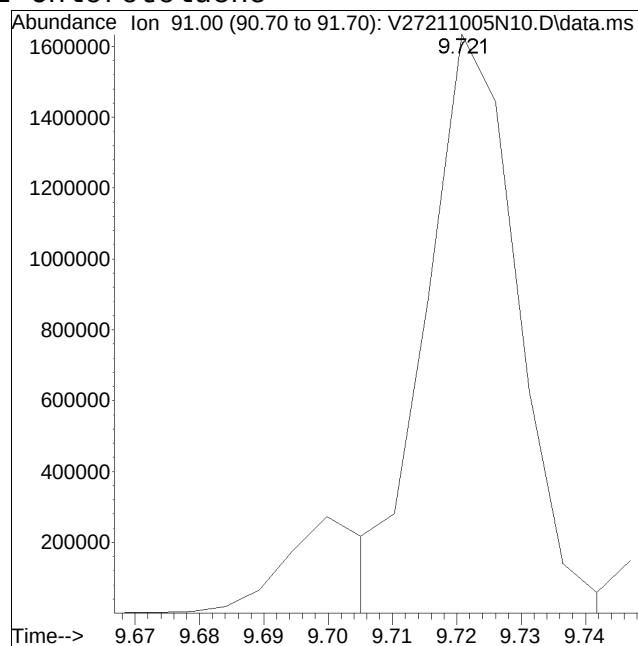
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Data File : V27211005N10.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 10:48 pm Instrument : VOA127
Sample : I8260STD200PPB Quant Date : 10/6/2021 1:14 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 1828109

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1593907 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N11.D
 Acq On : 05 Oct 2021 11:08 pm
 Operator : VOA127:JC
 Sample : I8260STD300PPB
 Misc : WG1555130,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 13:14:23 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	174959	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery =	110.76%		
59) Chlorobenzene-d5	8.761	117	131479	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery =	102.25%		
79) 1,4-Dichlorobenzene-d4	10.208	152	68517	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery =	96.87%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	48555	18.241	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	91.20%		
43) 1,2-Dichloroethane-d4	5.615	65	58624	19.877	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.38%		
60) Toluene-d8	7.561	98	172911	20.115	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.57%		
83) 4-Bromofluorobenzene	9.553	95	67306	20.747	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.74%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	720831	247.137	ug/L	100
3) Chloromethane	1.222	50	1329345	223.737	ug/L	99
4) Vinyl chloride	1.274	62	857761	258.142	ug/L	97
5) Bromomethane	1.510	94	412477	285.856	ug/L	99
6) Chloroethane	1.604	64	444981	192.404	ug/L	98
7) Trichlorofluoromethane	1.709	101	915045	247.678	ug/L	97
8) Ethyl ether	1.987	74	425426	285.242	ug/L	86
10) 1,1-Dichloroethene	2.139	96	591362	244.915	ug/L	77
11) Carbon disulfide	2.144	76	1819810	253.740	ug/L	96
12) Freon-113	2.181	101	563693	285.810	ug/L	96
15) Methylene chloride	2.711	84	716022	289.103	ug/L	87
17) Acetone	2.789	43	279524	249.184	ug/L	95
18) trans-1,2-Dichloroethene	2.873	96	680519	252.313	ug/L	88
19) Methyl acetate	2.936	43	576566	269.522	ug/L #	97
20) Methyl tert-butyl ether	3.030	73	1977291	319.774	ug/L	98
21) tert-Butyl alcohol	3.245	59	528609	1281.977	ug/L #	75
22) Diisopropyl ether	3.523	45	2595940	317.250	ug/L	98
23) 1,1-Dichloroethane	3.623	63	1436589	256.108	ug/L	100
24) Halothane	3.801	117	515181	282.895	ug/L	99
25) Acrylonitrile	3.733	53	315482	264.161	ug/L	97
26) Ethyl tert-butyl ether	4.042	59	2442903	330.386	ug/L #	84

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N11.D
 Acq On : 05 Oct 2021 11:08 pm
 Operator : VOA127:JC
 Sample : I8260STD300PPB
 Misc : WG1555130,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 13:14:23 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	1968508	328.458	ug/L	96
28) cis-1,2-Dichloroethene	4.394	96	809727	257.530	ug/L #	79
29) 2,2-Dichloropropane	4.514	77	1099630	265.097	ug/L	96
30) Bromochloromethane	4.651	128	360258	235.573	ug/L #	70
31) Cyclohexane	4.593	56	1385986	299.853	ug/L	86
32) Chloroform	4.792	83	1302925	257.472	ug/L	98
33) Ethyl acetate	5.012	43	829668	294.367	ug/L #	96
34) Carbon tetrachloride	4.887	117	981055	301.721	ug/L	98
35) Tetrahydrofuran	4.965	42	266940M6	301.412	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	1100798	279.869	ug/L #	97
39) 2-Butanone	5.201	43	446345	246.708	ug/L #	82
40) 1,1-Dichloropropene	5.143	75	920232	293.449	ug/L	95
41) Benzene	5.442	78	2722016	293.370	ug/L	96
42) tert-Amyl methyl ether	5.642	73	1868583	320.839	ug/L	93
44) 1,2-Dichloroethane	5.694	62	1046793	285.256	ug/L	98
47) Methyl cyclohexane	6.066	83	1104945	287.722	ug/L	88
48) Trichloroethene	6.113	95	711558	298.120	ug/L	94
50) Dibromomethane	6.554	93	443744	269.241	ug/L	94
51) 1,2-Dichloropropane	6.664	63	832705	316.399	ug/L #	93
54) Bromodichloromethane	6.764	83	1023987	281.664	ug/L	99
57) 1,4-Dioxane	6.984	88	439874	13939.619	ug/L #	86
58) cis-1,3-Dichloropropene	7.398	75	1210424	342.726	ug/L	96
61) Toluene	7.608	92	1671206	284.825	ug/L	93
62) 4-Methyl-2-pentanone	7.969	58	298532	312.091	ug/L #	96
63) Tetrachloroethene	7.928	166	679647	303.875	ug/L	89
65) trans-1,3-Dichloropropene	7.990	75	1083834	356.892	ug/L	99
67) Ethyl methacrylate	8.148	69	842977	272.209	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	505891	330.586	ug/L	92
69) Chlorodibromomethane	8.237	129	752130	355.390	ug/L	96
70) 1,3-Dichloropropane	8.310	76	1062792	344.634	ug/L	99
71) 1,2-Dibromoethane	8.394	107	610388	352.265	ug/L	99
72) 2-Hexanone	8.604	43	546047	263.318	ug/L	95
73) Chlorobenzene	8.777	112	1834538	286.875	ug/L	93
74) Ethylbenzene	8.803	91	3140438	279.748	ug/L	97
75) 1,1,1,2-Tetrachloroethane	8.829	131	695754	354.201	ug/L	95
76) p/m Xylene	8.908	106	2459554	532.083	ug/L	91
77) o Xylene	9.181	106	2374042	532.995	ug/L	86
78) Styrene	9.217	104	3983825	522.818	ug/L	94
80) Bromoform	9.233	173	462592	367.007	ug/L	96
82) Isopropylbenzene	9.380	105	3100061	296.050	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N11.D
 Acq On : 05 Oct 2021 11:08 pm
 Operator : VOA127:JC
 Sample : I8260STD300PPB
 Misc : WG1555130,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 13:14:23 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	779080	304.395	ug/L	98
85)	n-Propylbenzene	9.632	91	3650760	288.029	ug/L	95
86)	1,4-Dichlorobutane	9.647	55	1293808	316.116	ug/L	92
87)	1,1,2,2-Tetrachloroethane	9.689	83	722181	322.774	ug/L	100
88)	4-Ethyltoluene	9.700	105	3088749	284.880	ug/L	95
89)	2-Chlorotoluene	9.721	91	2248119M6	287.179	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	2728079	285.501	ug/L	90
91)	1,2,3-Trichloropropane	9.763	75	606908	333.007	ug/L	99
92)	trans-1,4-Dichloro-2-b...	9.789	53	256333	298.509	ug/L #	83
93)	4-Chlorotoluene	9.826	91	2341220	287.513	ug/L	95
94)	tert-Butylbenzene	9.936	119	2309251	294.755	ug/L	96
97)	1,2,4-Trimethylbenzene	9.978	105	2717577	284.052	ug/L	92
98)	sec-Butylbenzene	10.041	105	3353004	285.844	ug/L	97
99)	p-Isopropyltoluene	10.124	119	2975182	288.705	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	1492595	288.789	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	1507014	287.932	ug/L	99
102)	p-Diethylbenzene	10.334	119	1785805	289.234	ug/L	95
103)	n-Butylbenzene	10.366	91	2600420	289.383	ug/L	96
104)	1,2-Dichlorobenzene	10.460	146	1420993	286.649	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.785	119	2736884	295.582	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.916	155	133981	310.271	ug/L	89
107)	1,3,5-Trichlorobenzene	10.927	180	1112085	291.521	ug/L	95
108)	Hexachlorobutadiene	11.262	225	536042	299.977	ug/L	96
109)	1,2,4-Trichlorobenzene	11.283	180	1059989	291.942	ug/L	98
110)	Naphthalene	11.467	128	2643871	293.562	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	1007676	292.476	ug/L	99

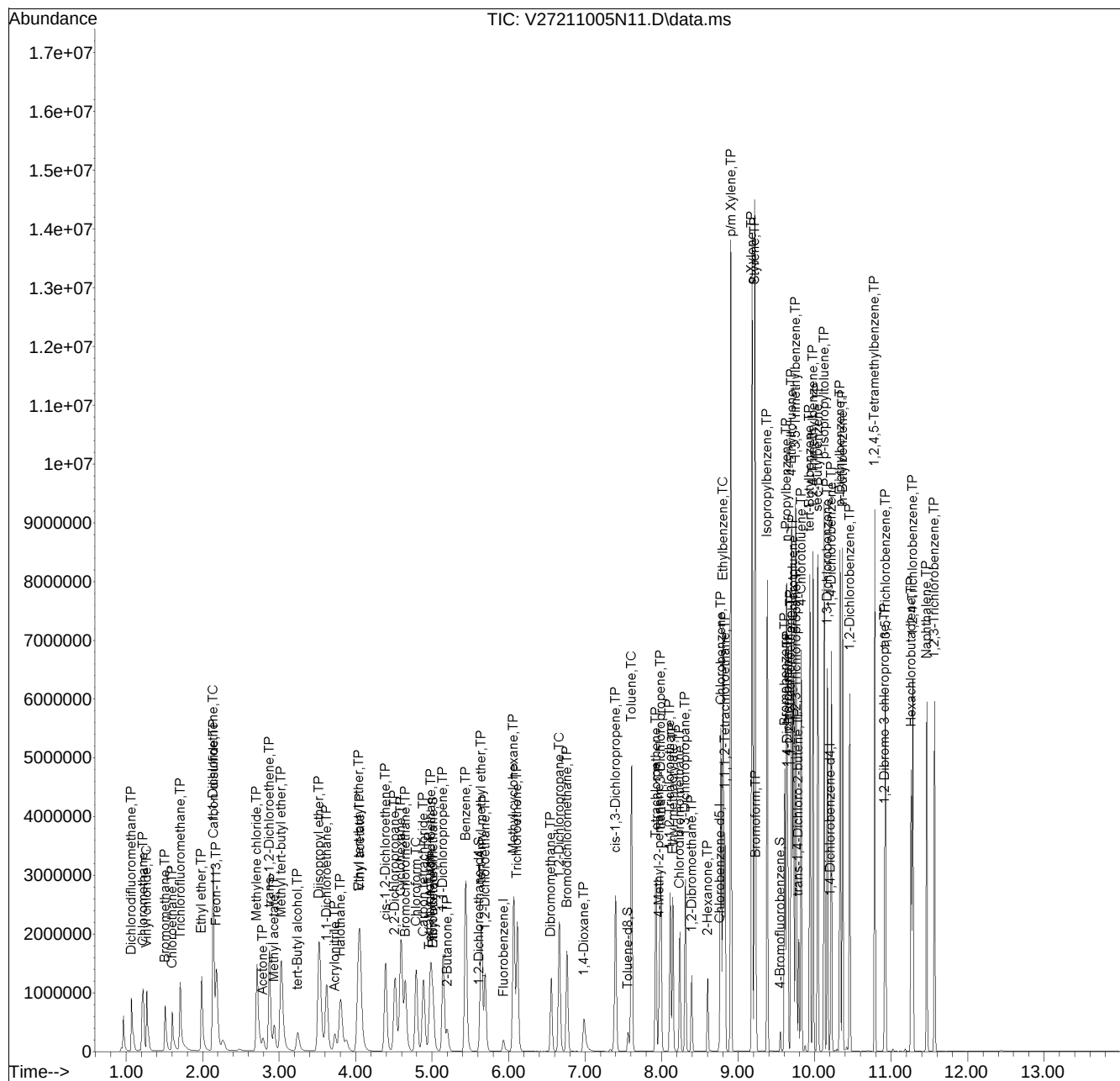
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N11.D
Acq On : 05 Oct 2021 11:08 pm
Operator : VOA127:JC
Sample : I8260STD300PPB
Misc : WG1555130, ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 13:14:23 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•

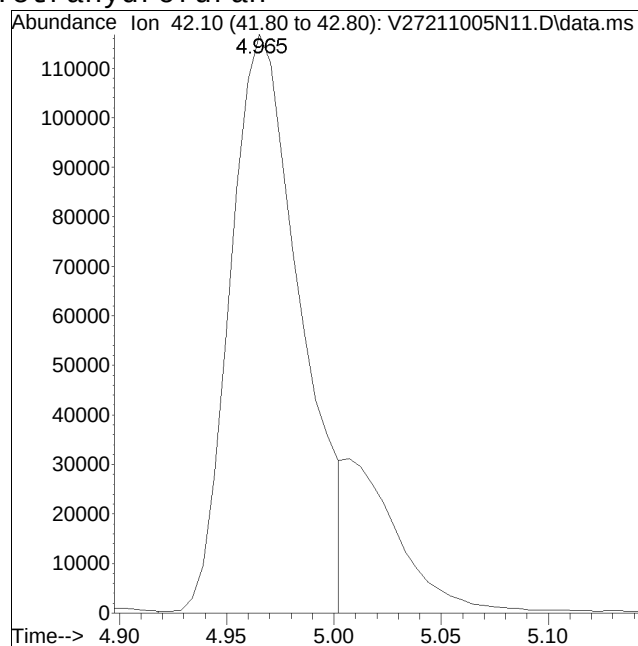
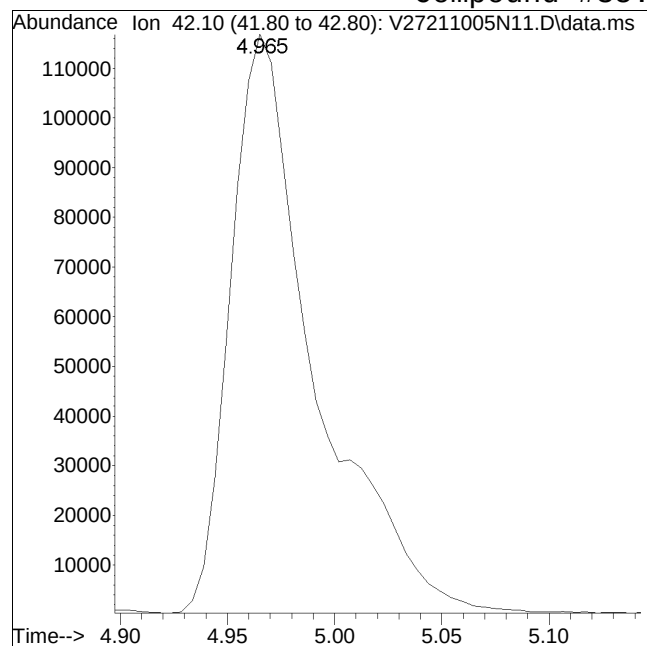


Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20
Data File : V27211005N11.D
Date Inj'd : 10/5/2021 11:08 pm
Sample : I8260STD300PPB

Method : V127_211005N_8260.m
Operator : VOA127:JC
Instrument : VOA127
Quant Date : 10/6/2021 1:14 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 317785

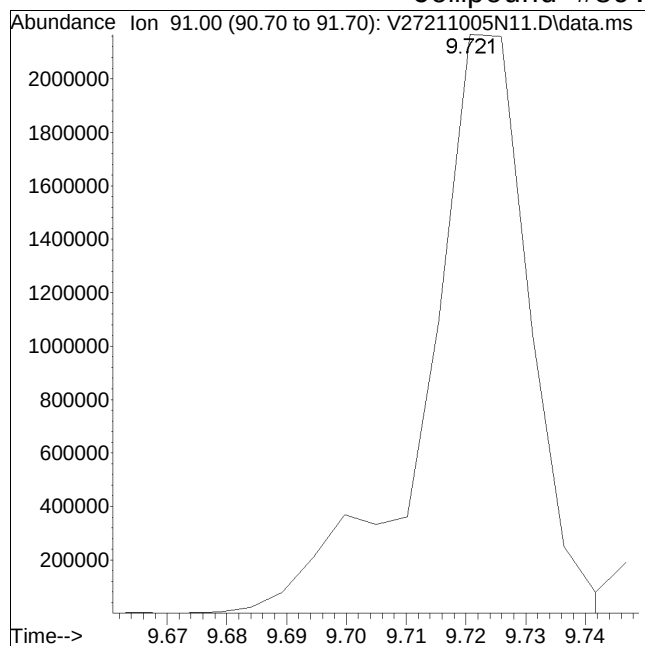
Manual Peak Response = 266940 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

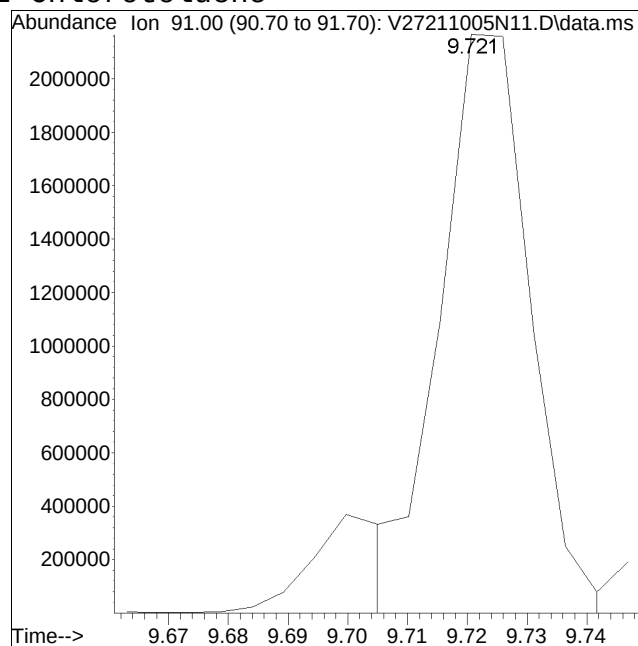
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N11.D Operator : VOA127:JC
Date Inj'd : 10/5/2021 11:08 pm Instrument : VOA127
Sample : I8260STD300PPB Quant Date : 10/6/2021 1:14 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 2562978

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2248119 M6

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TP	Dichlorodifluoromethane	0.333	0.370	-11.1	108	0.00
3 TP	Chloromethane	0.679	0.666	1.9	100	0.00
4 TC	Vinyl chloride	0.380	0.420	-10.5	106	0.00
5 TP	Bromomethane	* 40.000	46.836	-17.1	103	0.00
6 TP	Chloroethane	0.264	0.234	11.4	100	0.00
7 TP	Trichlorofluoromethane	0.422	0.449	-6.4	100	0.00
8 TP	Ethyl ether	0.170	0.161	5.3	94	0.00
10 TC	1,1-Dichloroethene	0.276	0.250	9.4	92	0.00
11 TP	Carbon disulfide	0.820	0.653	20.4#	77	0.00
12 TP	Freon-113	0.225	0.246	-9.3	102	0.00
15 TP	Methylene chloride	* 40.000	41.958	-4.9	95	0.00
17 TP	Acetone	* 40.000	25.454	36.4#	71	0.00
18 TP	trans-1,2-Dichloroethene	0.308	0.276	10.4	97	0.00
19 TP	Methyl acetate	0.245	0.219	10.6	91	0.00
20 TP	Methyl tert-butyl ether	0.707	0.667	5.7	92	0.00
21 TP	tert-Butyl alcohol	0.047	0.044#	6.4	96	0.00
22 TP	Diisopropyl ether	0.935	0.940	-0.5	97	0.00
23 TP	1,1-Dichloroethane	0.641	0.594	7.3	96	0.00
24 TP	Halothane	0.208	0.194	6.7	91	0.00
25 TP	Acrylonitrile	0.137	0.124	9.5	92	0.00
26 TP	Ethyl tert-butyl ether	0.845	0.876	-3.7	100	0.00
27 TP	Vinyl acetate	0.685	0.666	2.8	91	0.00
28 TP	cis-1,2-Dichloroethene	0.359	0.315	12.3	91	0.00
29 TP	2,2-Dichloropropane	0.474	0.432	8.9	91	0.00
30 TP	Bromochloromethane	0.175	0.162	7.4	95	0.00
31 TP	Cyclohexane	0.528	0.560	-6.1	95	0.00
32 TC	Chloroform	0.578	0.526	9.0	95	0.00
33 TP	Ethyl acetate	0.322	0.301	6.5	94	0.00
34 TP	Carbon tetrachloride	0.372	0.380	-2.2	95	0.00
35 TP	Tetrahydrofuran	* 40.000	32.728	18.2	73	0.00
36 S	Dibromofluoromethane	0.304	0.284	6.6	96	0.00
37 TP	1,1,1-Trichloroethane	0.450	0.444	1.3	97	0.00
39 TP	2-Butanone	0.207	0.146	29.5#	78	0.00
40 TP	1,1-Dichloropropene	* 40.000	38.432	3.9	95	0.00
41 TP	Benzene	1.061	1.034	2.5	94	0.00
42 TP	tert-Amyl methyl ether	0.666	0.659	1.1	97	0.00
43 S	1,2-Dichloroethane-d4	0.337	0.325	3.6	99	0.00
44 TP	1,2-Dichloroethane	0.419	0.411	1.9	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 TP	Methyl cyclohexane	0.439	0.433	1.4	96	0.00
48 TP	Trichloroethene	0.273	0.271	0.7	97	0.00
50 TP	Dibromomethane	0.188	0.169	10.1	93	0.00
51 TC	1,2-Dichloropropane	0.301	0.305	-1.3	94	0.00
54 TP	Bromodichloromethane	0.416	0.374	10.1	93	0.00
57 TP	1,4-Dioxane	0.00361	0.00339#	6.1	92	0.00
58 TP	cis-1,3-Dichloropropene	0.404	0.426	-5.4	94	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
60 S	Toluene-d8	1.308	1.320	-0.9	99	0.00
61 TC	Toluene	0.893	0.865	3.1	94	0.00
62 TP	4-Methyl-2-pentanone	0.146	0.137	6.2	91	0.00
63 TP	Tetrachloroethene	0.340	0.352	-3.5	94	0.00
65 TP	trans-1,3-Dichloropropene	0.462	0.467	-1.1	94	0.00
67 TP	Ethyl methacrylate	0.471	0.409	13.2	90	0.00
68 TP	1,1,2-Trichloroethane	0.233	0.224	3.9	94	0.00
69 TP	Chlorodibromomethane	0.322	0.329	-2.2	97	0.00
70 TP	1,3-Dichloropropane	0.469	0.469	0.0	94	0.00
71 TP	1,2-Dibromoethane	0.264	0.270	-2.3	93	0.00
72 TP	2-Hexanone	0.315	0.248	21.3#	86	0.00
73 TP	Chlorobenzene	0.973	0.989	-1.6	98	0.00
74 TC	Ethylbenzene	1.708	1.699	0.5	94	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.299	0.301	-0.7	93	0.00
76 TP	p/m Xylene	0.703	0.682	3.0	94	0.00
77 TP	o Xylene	0.678	0.665	1.9	96	0.00
78 TP	Styrene	1.159	1.132	2.3	95	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
80 TP	Bromoform	0.368	0.376	-2.2	96	0.00
82 TP	Isopropylbenzene	3.057	3.058	-0.0	94	0.00
83 S	4-Bromofluorobenzene	0.947	0.932	1.6	98	0.00
84 TP	Bromobenzene	0.747	0.750	-0.4	97	0.00
85 TP	n-Propylbenzene	3.700	3.713	-0.4	94	0.00
86 TP	1,4-Dichlorobutane	1.195	1.107	7.4	91	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.653	0.599	8.3	93	0.00
88 TP	4-Ethyltoluene	3.165	3.210	-1.4	96	0.00
89 TP	2-Chlorotoluene	2.285	2.245	1.8	94	0.00
90 TP	1,3,5-Trimethylbenzene	2.789	2.751	1.4	94	0.00
91 TP	1,2,3-Trichloropropane	0.532	0.514	3.4	92	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92 TP	trans-1,4-Dichloro-2-butene	0.251	0.233	7.2	98	0.00
93 TP	4-Chlorotoluene	2.377	2.328	2.1	94	0.00
94 TP	tert-Butylbenzene	2.287	2.317	-1.3	95	0.00
97 TP	1,2,4-Trimethylbenzene	2.793	2.789	0.1	95	0.00
98 TP	sec-Butylbenzene	3.424	3.389	1.0	93	0.00
99 TP	p-Isopropyltoluene	3.008	3.037	-1.0	94	0.00
100 TP	1,3-Dichlorobenzene	1.509	1.534	-1.7	97	0.00
101 TP	1,4-Dichlorobenzene	1.528	1.543	-1.0	98	0.00
102 TP	p-Diethylbenzene	1.802	1.732	3.9	90	0.00
103 TP	n-Butylbenzene	2.623	2.747	-4.7	98	0.00
104 TP	1,2-Dichlorobenzene	1.447	1.445	0.1	97	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.703	2.662	1.5	94	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.126	0.118	6.3	91	0.00
107 TP	1,3,5-Trichlorobenzene	1.114	1.112	0.2	96	0.00
108 TP	Hexachlorobutadiene	0.522	0.493	5.6	90	0.00
109 TP	1,2,4-Trichlorobenzene	1.060	1.040	1.9	94	0.00
110 TP	Naphthalene	2.629	2.539	3.4	95	0.00
111 TP	1,2,3-Trichlorobenzene	1.006	0.977	2.9	94	0.00

 * Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	157321	20.000	ug/L	0.00
Standard Area 1 = 157962			Recovery =	99.59%		
59) Chlorobenzene-d5	8.761	117	127220	20.000	ug/L	0.00
Standard Area 1 = 128586			Recovery =	98.94%		
79) 1,4-Dichlorobenzene-d4	10.208	152	70523	20.000	ug/L	0.00
Standard Area 1 = 70732			Recovery =	99.70%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.017	113	44745	18.694	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.47%		
43) 1,2-Dichloroethane-d4	5.620	65	51157	19.290	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.45%		
60) Toluene-d8	7.560	98	167947	20.191	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.96%		
83) 4-Bromofluorobenzene	9.553	95	65717	19.681	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.41%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	116391	44.379	ug/L	99
3) Chloromethane	1.216	50	209401	39.195	ug/L	99
4) Vinyl chloride	1.274	62	132187	44.242	ug/L	97
5) Bromomethane	1.510	94	62946	46.836	ug/L	98
6) Chloroethane	1.609	64	73492	35.340	ug/L	97
7) Trichlorofluoromethane	1.720	101	141315	42.539	ug/L	97
8) Ethyl ether	1.987	74	50536	37.683	ug/L	86
10) 1,1-Dichloroethene	2.139	96	78804	36.296	ug/L	76
11) Carbon disulfide	2.144	76	205359	31.844	ug/L	95
12) Freon-113	2.186	101	77439	43.666	ug/L	96
15) Methylene chloride	2.710	84	98706	41.958	ug/L	87
17) Acetone	2.789	43	28923	25.454	ug/L	94
18) trans-1,2-Dichloroethene	2.873	96	86923	35.841	ug/L	87
19) Methyl acetate	2.936	43	69020	35.881	ug/L #	98
20) Methyl tert-butyl ether	3.025	73	209904	37.752	ug/L	99
21) tert-Butyl alcohol	3.230	59	68997	186.091	ug/L #	75
22) Diisopropyl ether	3.523	45	295777	40.200	ug/L	98
23) 1,1-Dichloroethane	3.623	63	186789	37.033	ug/L	99
24) Halothane	3.801	117	61174	37.358	ug/L	97
25) Acrylonitrile	3.728	53	39004	36.321	ug/L	99
26) Ethyl tert-butyl ether	4.042	59	275487	41.435	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	209439	38.864	ug/L	97
28) cis-1,2-Dichloroethene	4.394	96	99178	35.080	ug/L #	79
29) 2,2-Dichloropropane	4.519	77	135852	36.423	ug/L	97
30) Bromochloromethane	4.650	128	50859	36.985	ug/L #	71
31) Cyclohexane	4.598	56	176142	42.380	ug/L	88
32) Chloroform	4.792	83	165598	36.393	ug/L	98
33) Ethyl acetate	5.012	43	94864	37.431	ug/L #	94
34) Carbon tetrachloride	4.886	117	119474	40.863	ug/L	99
35) Tetrahydrofuran	4.970	42	27453M6	32.728	ug/L	
37) 1,1,1-Trichloroethane	4.986	97	139576	39.465	ug/L #	96
39) 2-Butanone	5.201	43	45830	28.172	ug/L #	82
40) 1,1-Dichloropropene	5.143	75	107521	38.432	ug/L	95
41) Benzene	5.437	78	325496	39.014	ug/L	95
42) tert-Amyl methyl ether	5.641	73	207363	39.596	ug/L	93
44) 1,2-Dichloroethane	5.694	62	129201	39.155	ug/L	98
47) Methyl cyclohexane	6.066	83	136295	39.470	ug/L	87
48) Trichloroethene	6.113	95	85212	39.704	ug/L	95
50) Dibromomethane	6.559	93	53157	35.869	ug/L	93
51) 1,2-Dichloropropane	6.664	63	96098	40.608	ug/L #	94
54) Bromodichloromethane	6.763	83	117764	36.025	ug/L	99
57) 1,4-Dioxane	6.989	88	53368	1880.846	ug/L #	85
58) cis-1,3-Dichloropropene	7.398	75	134038	42.207	ug/L	97
61) Toluene	7.608	92	220020	38.753	ug/L	96
62) 4-Methyl-2-pentanone	7.975	58	34746	37.540	ug/L #	95
63) Tetrachloroethene	7.922	166	89533	41.371	ug/L	88
65) trans-1,3-Dichloropropene	7.990	75	118800	40.429	ug/L	97
67) Ethyl methacrylate	8.148	69	104103	34.742	ug/L	100
68) 1,1,2-Trichloroethane	8.111	83	57023	38.510	ug/L	93
69) Chlorodibromomethane	8.237	129	83750	40.898	ug/L	94
70) 1,3-Dichloropropane	8.310	76	119446	40.030	ug/L	99
71) 1,2-Dibromoethane	8.394	107	68737	40.997	ug/L	100
72) 2-Hexanone	8.604	43	63213	31.503	ug/L	98
73) Chlorobenzene	8.771	112	251732	40.682	ug/L	93
74) Ethylbenzene	8.803	91	432351	39.803	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.829	131	76500	40.249	ug/L	95
76) p/m Xylene	8.903	106	347060	77.594	ug/L	96
77) o Xylene	9.180	106	338362	78.509	ug/L	91
78) Styrene	9.217	104	575798	78.095	ug/L	91
80) Bromoform	9.233	173	52980	40.837	ug/L	96
82) Isopropylbenzene	9.380	105	431317	40.018	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
 Data File : V27211005N15.D
 Acq On : 06 Oct 2021 12:30 am
 Operator : VOA127:JC
 Sample : C8260STD40PPB
 Misc : WG1555130,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211005NICAL\V27211005N08.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.610	156	105747	40.141	ug/L	97
85)	n-Propylbenzene	9.631	91	523685	40.141	ug/L	96
86)	1,4-Dichlorobutane	9.647	55	156159	37.069	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.689	83	84481	36.684	ug/L	100
88)	4-Ethyltoluene	9.700	105	452738	40.569	ug/L	97
89)	2-Chlorotoluene	9.720	91	316633M6	39.297	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	388004	39.451	ug/L	92
91)	1,2,3-Trichloropropane	9.762	75	72450	38.622	ug/L	99
92)	trans-1,4-Dichloro-2-b...	9.789	53	32822	37.135	ug/L	87
93)	4-Chlorotoluene	9.820	91	328348	39.176	ug/L	96
94)	tert-Butylbenzene	9.935	119	326777	40.524	ug/L	97
97)	1,2,4-Trimethylbenzene	9.977	105	393435	39.954	ug/L	94
98)	sec-Butylbenzene	10.040	105	477940	39.586	ug/L	98
99)	p-Isopropyltoluene	10.124	119	428416	40.390	ug/L	96
100)	1,3-Dichlorobenzene	10.166	146	216337	40.666	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	217677	40.407	ug/L	99
102)	p-Diethylbenzene	10.329	119	244321	38.445	ug/L	94
103)	n-Butylbenzene	10.365	91	387459	41.891	ug/L	97
104)	1,2-Dichlorobenzene	10.460	146	203769	39.936	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	375458	39.396	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.911	155	16664	37.493	ug/L	89
107)	1,3,5-Trichlorobenzene	10.921	180	156886	39.956	ug/L	93
108)	Hexachlorobutadiene	11.262	225	69548	37.813	ug/L	97
109)	1,2,4-Trichlorobenzene	11.283	180	146710	39.257	ug/L	97
110)	Naphthalene	11.466	128	358060	38.626	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	137776	38.852	ug/L	99

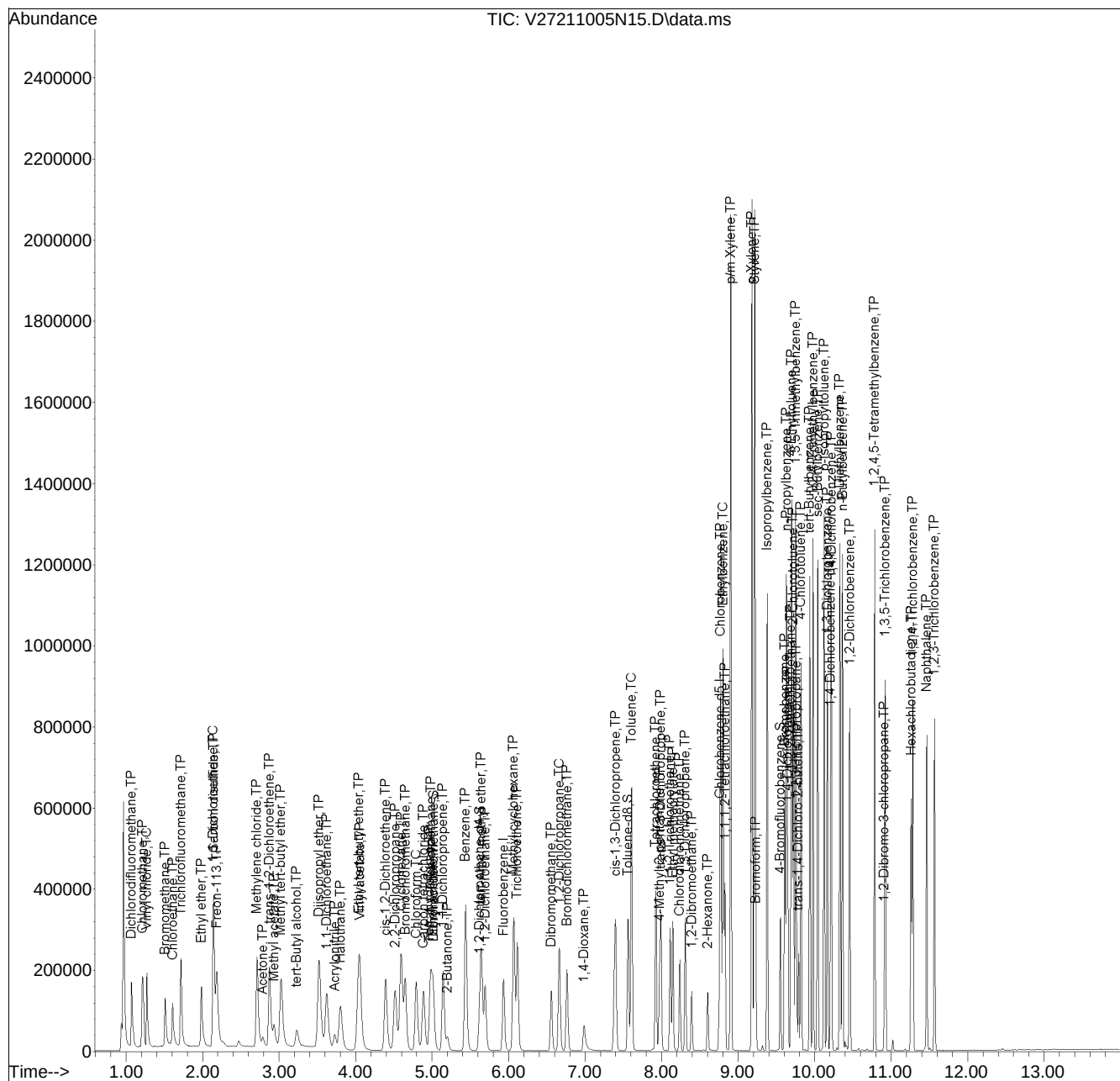
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211005NICAL\
Data File : V27211005N15.D
Acq On : 06 Oct 2021 12:30 am
Operator : VOA127:JC
Sample : C8260STD40PPB
Misc : WG1555130, ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 06 13:14:35 2021
Quant Method : I:\VOLATILES\VOA127\2021\211005NICAL\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

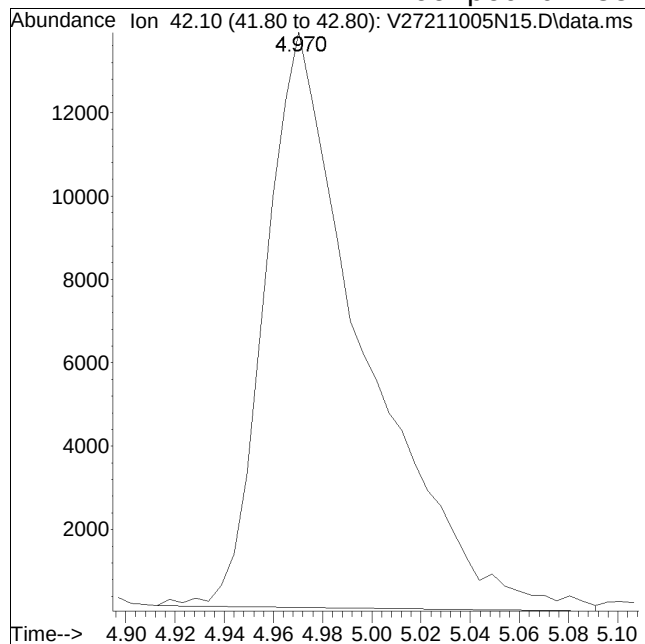
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve05N08.D•



Manual Integration Report

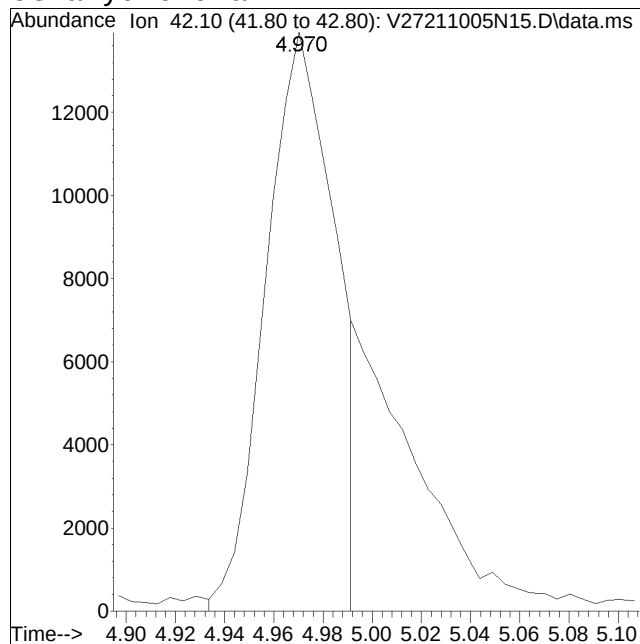
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N15.D Operator : VOA127:JC
Date Inj'd : 10/6/2021 12:30 am Instrument : VOA127
Sample : C8260STD40PPB Quant Date : 10/6/2021 1:14 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 38706

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

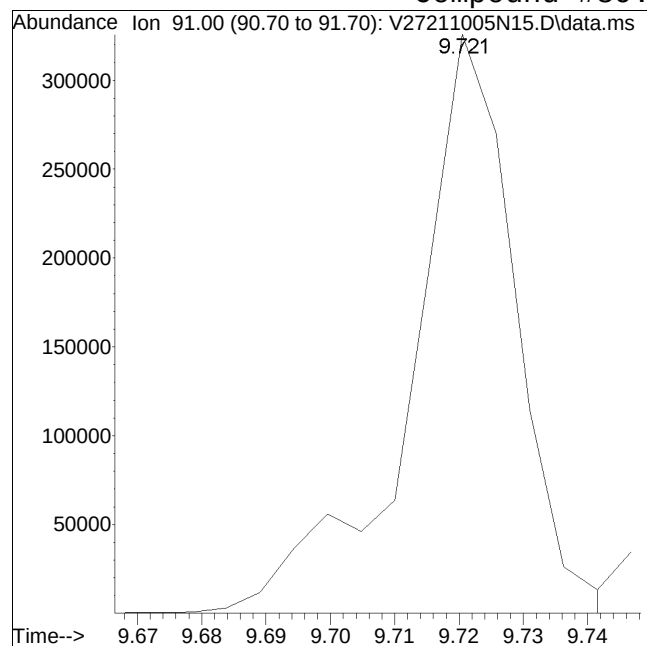


Manual Peak Response = 27453 M6

Manual Integration Report

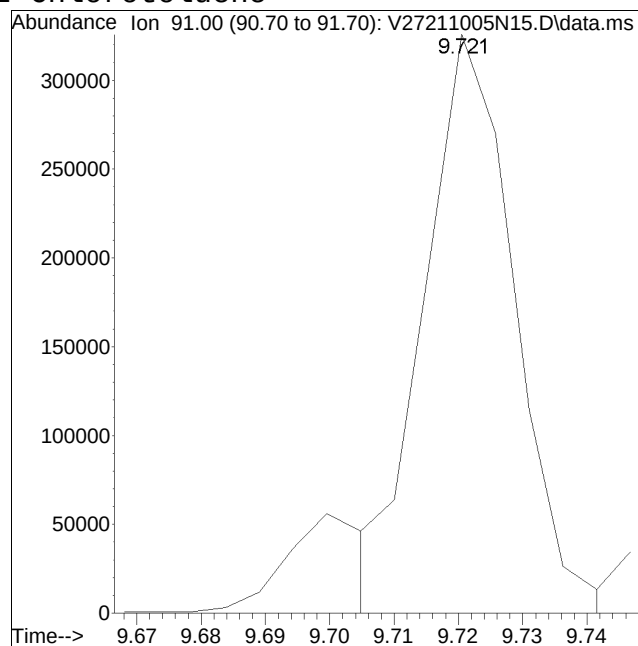
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211005N15.D Operator : VOA127:JC
Date Inj'd : 10/6/2021 12:30 am Instrument : VOA127
Sample : C8260STD40PPB Quant Date : 10/6/2021 1:14 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 364042

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 316633 M6

Correlation Data Summary

Method Path: I:\VOLATILES\VOA127\2021\211005NICAL\
 Method File: V127_211005N_8260.m
 Method Title: VOLATILES BY GC/MS
 Last Update: Wed Oct 06 10:48:31 2021
 CSV generated: Wed Oct 06 10:58:07 2021

Analyte	Curve fit Type	Coefficient of Determination	Quadratic Term	Linear Term	Constant Term
Bromomethane	Linear	0.996686	0	0.163789	0.01655
Methylene chloride	Linear	0.997964	0	0.280411	0.039139
Acetone	Linear	0.99842	0	0.126385	0.022997
Tetrahydrofuran	Linear	0.997152	0	0.100581	0.009911
1,1-Dichloropropene	Linear	0.998919	0	0.358898	-0.006217

Response Factor Report VOA 123

Method Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Method File : V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021
 Response Via : Initial Calibration

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

Compound		L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----										
2) TP	Dichlorodifluo...	0.232	0.285	0.263	0.296	0.275	0.282	0.285	0.295	0.277	7.58	
3) TP	Chloromethane	0.237	0.279	0.262	0.268	0.248	0.255	0.257	0.308	0.264	8.25	
4) TC	Vinyl chloride	0.234	0.303	0.291	0.307	0.284	0.284	0.284	0.318	0.288	8.81	
5) TP	Bromomethane	0.225	0.257	0.252	0.264	0.252	0.263	0.266	0.283	0.258	6.48	
6) TP	Chloroethane	0.170	0.214	0.210	0.223	0.227	0.244	0.226	0.230	0.218	10.04	
7) TP	Trichlorofluor...	0.426	0.550	0.509	0.573	0.560	0.603	0.620	0.555	0.550	10.96	
8) TP	Ethyl ether	0.113	0.133	0.135	0.138	0.130	0.135	0.134	0.138	0.132	6.14	
10) TC	1,1-Dichloroet...	0.176	0.226	0.216	0.232	0.224	0.233	0.237	0.232	0.222	8.87	
11) TP	Carbon disulfide	0.749	0.695	0.639	0.692	0.665	0.690	0.694	0.794	0.702	6.89	
12) TP	Freon-113	0.174	0.235	0.216	0.245	0.235	0.244	0.246	0.232	0.228	10.56	
14) TP	Acrolein	0.021	0.022	0.023	0.022	0.022	0.023	0.023	0.020	0.022#	4.68	
15) TP	Methylene chlo...	0.340	0.298	0.283	0.262	0.270	0.266			0.286	10.26	
17) TP	Acetone	0.062	0.052	0.051	0.045	0.042	0.045		0.067	*L	0.9969	
18) TP	trans-1,2-Dich...	0.217	0.262	0.259	0.269	0.259	0.271	0.271	0.264	0.259	6.84	
19) TP	Methyl acetate	0.148	0.126	0.121	0.126	0.118	0.123	0.122	0.141	0.128	8.24	
20) TP	Methyl tert-bu...	0.586	0.625	0.645	0.683	0.648	0.667	0.665	0.628	0.644	4.74	
21) TP	tert-Butyl alc...	0.016	0.018	0.018	0.020	0.019	0.019	0.019	0.019	0.019#	6.64	
22) TP	Diisopropyl ether	0.634	0.721	0.766	0.795	0.765	0.792	0.789	0.742	0.751	7.15	
23) TP	1,1-Dichloroet...	0.403	0.449	0.458	0.471	0.451	0.461	0.460	0.484	0.455	5.18	
24) TP	Halothane	0.139	0.196	0.189	0.206	0.202	0.209	0.210	0.208	0.195	12.14	
25) TP	Acrylonitrile	0.054	0.057	0.059	0.065	0.060	0.061	0.061	0.053	0.059	6.91	
26) TP	Ethyl tert-but...	0.583	0.656	0.703	0.731	0.711	0.738	0.744	0.664	0.691	7.89	
27) TP	Vinyl acetate	0.382	0.455	0.505	0.524	0.497	0.500	0.497	0.461	0.478	9.40	
28) TP	cis-1,2-Dichlo...	0.253	0.297	0.298	0.307	0.297	0.305	0.305	0.299	0.295	5.98	
29) TP	2,2-Dichloropr...	0.294	0.372	0.363	0.394	0.384	0.399	0.399	0.367	0.372	9.22	
30) TP	Bromochloromet...	0.126	0.152	0.150	0.156	0.147	0.153	0.153	0.160	0.150	6.80	
31) TP	Cyclohexane	0.260	0.338	0.340	0.389	0.378	0.394	0.396	0.360	0.357	12.68	
32) TC	Chloroform	0.474	0.498	0.495	0.512	0.487	0.498	0.495	0.561	0.503	5.16	
33) TP	Ethyl acetate	0.176	0.172	0.186	0.205	0.190	0.194	0.192	0.193	0.188	5.53	
34) TP	Carbon tetrach...	0.284	0.356	0.360	0.412	0.408	0.430	0.429	0.376	0.382	12.88	

Response Factor Report VOA 123

Method Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Method File : V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021
 Response Via : Initial Calibration

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

	Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
35)	TP Tetrahydrofuran	0.063	0.062	0.067	0.073	0.066	0.067	0.066	0.067	0.066	4.98	
36)	S Dibromofluorom...	0.271	0.273	0.272	0.274	0.271	0.269	0.272	0.276	0.275	0.273	0.76
37)	TP 1,1,1-Trichlor...	0.307	0.404	0.400	0.443	0.434	0.446	0.444	0.322	0.431	0.403	13.17
39)	TP 2-Butanone	0.082	0.084	0.085	0.087	0.082	0.082	0.081	0.079	0.083#	3.10	
40)	TP 1,1-Dichloropr...	0.235	0.324	0.318	0.357	0.345	0.353	0.351	0.259	0.335	0.320	13.67
41)	TP Benzene	0.837	0.988	1.018	1.064	1.018	1.040	1.032	0.878	1.048	0.992	8.04
42)	TP tert-Amyl meth...	0.533	0.604	0.649	0.695	0.670	0.696	0.693	0.616	0.644	8.95	
43)	S 1,2-Dichloroet...	0.241	0.232	0.235	0.240	0.238	0.239	0.246	0.245	0.242	0.240	1.86
44)	TP 1,2-Dichloroet...	0.307	0.329	0.336	0.350	0.324	0.332	0.330	0.347	0.332	4.06	
47)	TP Methyl cyclohe...	0.288	0.371	0.386	0.434	0.427	0.449	0.455	0.379	0.399	13.84	
48)	TP Trichloroethene	0.220	0.271	0.272	0.296	0.287	0.305	0.310	0.228	0.276	0.274	11.47
50)	TP Dibromomethane	0.137	0.157	0.163	0.172	0.164	0.170	0.169	0.163	0.162	6.96	
51)	TC 1,2-Dichloropr...	0.217	0.258	0.261	0.270	0.258	0.264	0.264	0.257	0.256	6.42	
53)	TP 2-Chloroethyl ...	0.100	0.119	0.141	0.134	0.138	0.138	0.120	0.127	11.70		
54)	TP Bromodichlorom...	0.305	0.345	0.375	0.400	0.386	0.402	0.401	0.282	0.353	0.361	12.07
57)	TP 1,4-Dioxane	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	13.73	
58)	TP cis-1,3-Dichlo...	0.323	0.374	0.413	0.438	0.432	0.448	0.448	0.330	0.367	0.397	12.55
59)	I Chlorobenzene-d5	-----ISTD-----										
60)	S Toluene-d8	1.262	1.256	1.263	1.253	1.220	1.198	1.181	1.255	1.248	1.237	2.43
61)	TC Toluene	0.709	0.793	0.824	0.856	0.830	0.839	0.818	0.821	0.811	5.57	
62)	TP 4-Methyl-2-pen...	0.060	0.077	0.085	0.095	0.090	0.092	0.090	0.081	0.084#	13.49	
63)	TP Tetrachloroethene	0.300	0.355	0.367	0.398	0.388	0.396	0.390	0.287	0.380	0.362	11.48
65)	TP trans-1,3-Dich...	0.335	0.382	0.457	0.489	0.476	0.484	0.472	0.393	0.436	13.26	
67)	TP Ethyl methacry...	0.282	0.293	0.345	0.376	0.364	0.368	0.363	0.301	0.337	11.33	
68)	TP 1,1,2-Trichlor...	0.212	0.229	0.237	0.247	0.231	0.232	0.226	0.238	0.232	4.43	
69)	TP Chlorodibromom...	0.272	0.311	0.362	0.396	0.387	0.396	0.392	0.264	0.322	*L	0.9996
70)	TP 1,3-Dichloropr...	0.407	0.438	0.473	0.488	0.459	0.456	0.441	0.466	0.453	5.44	
71)	TP 1,2-Dibromoethane	0.228	0.263	0.288	0.307	0.287	0.289	0.281	0.217	0.276	0.271	11.00
72)	TP 2-Hexanone	0.120	0.145	0.156	0.172	0.161	0.162	0.157	0.161	0.154	10.12	
73)	TP Chlorobenzene	0.838	0.965	0.995	1.023	0.992	1.011	0.994	0.779	0.975	0.952	8.88
74)	TC Ethylbenzene	1.320	1.491	1.599	1.701	1.643	1.671	1.609	1.585	1.577	7.72	

Response Factor Report VOA 123

Method Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Method File : V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021
 Response Via : Initial Calibration

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

	Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
75)	TP 1,1,1,2-Tetrac...	0.291	0.329	0.379	0.407	0.401	0.412	0.407	0.283	0.333	0.360	14.40
76)	TP p/m Xylene	0.495	0.576	0.633	0.686	0.668	0.700	0.693	0.535	0.608	0.622	11.87
77)	TP o Xylene	0.475	0.559	0.618	0.666	0.654	0.683	0.680	0.512	0.582	0.603	12.60
78)	TP Styrene	0.754	0.931	1.091	1.175	1.169	1.206	1.173	0.773	0.945	*L	0.9995
79)	I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80)	TP Bromoform		0.332	0.370	0.413	0.428	0.465	0.490		0.416		14.11
82)	TP Isopropylbenzene	2.149	2.668	2.849	2.998	2.905	2.973	2.905		2.807	2.782	9.91
83)	S 4-Bromofluorob...	0.770	0.778	0.761	0.765	0.752	0.733	0.733	0.800	0.777	0.763	2.83
84)	TP Bromobenzene	0.651	0.767	0.778	0.795	0.760	0.787	0.792		0.799	0.766	6.31
85)	TP n-Propylbenzene	2.671	3.268	3.356	3.534	3.412	3.472	3.368		3.403	3.311	8.16
86)	TP 1,4-Dichlorobu...	0.732	0.724	0.764	0.783	0.748	0.769	0.775		0.764	0.757	2.76
87)	TP 1,1,2,2-Tetrac...	0.544	0.598	0.603	0.617	0.586	0.579	0.574	0.506	0.617	0.580	6.22
88)	TP 4-Ethyltoluene	2.366	2.712	2.854	2.960	2.894	2.933	2.867		2.893	2.810	6.90
89)	TP 2-Chlorotoluene	1.477	1.906	2.000	2.047	1.991	2.026	2.031		1.881	1.920	9.83
90)	TP 1,3,5-Trimethy...	1.883	2.338	2.488	2.601	2.541	2.597	2.576		2.297	2.415	10.12
91)	TP 1,2,3-Trichlor...	0.440	0.435	0.463	0.484	0.462	0.474	0.481		0.482	0.465	4.09
92)	TP trans-1,4-Dich...		0.138	0.157	0.170	0.160	0.161	0.160		0.145	0.156	6.79
93)	TP 4-Chlorotoluene	1.700	1.988	2.099	2.154	2.060	2.103	2.060		2.002	2.021	6.96
94)	TP tert-Butylbenzene	1.596	2.022	2.161	2.281	2.222	2.276	2.252		2.067	2.110	10.84
97)	TP 1,2,4-Trimethy...	2.033	2.384	2.539	2.625	2.565	2.589	2.534		2.489	2.470	7.73
98)	TP sec-Butylbenzene	2.383	3.023	3.231	3.445	3.352	3.340	3.224		3.140	3.142	10.62
99)	TP p-Isopropyltol...	2.106	2.562	2.839	2.999	2.972	2.998	2.905		2.621	2.750	11.26
100)	TP 1,3-Dichlorobe...	1.348	1.457	1.573	1.621	1.587	1.606	1.582		1.561	1.542	6.01
101)	TP 1,4-Dichlorobe...	1.369	1.544	1.615	1.619	1.568	1.603	1.586		1.607	1.564	5.30
102)	TP p-Diethylbenzene	1.286	1.530	1.689	1.785	1.768	1.795	1.780		1.514	1.643	11.19
103)	TP n-Butylbenzene	1.876	2.426	2.553	2.678	2.560	2.547	2.469		2.426	2.442	9.97
104)	TP 1,2-Dichlorobe...	1.212	1.391	1.488	1.520	1.479	1.517	1.495		1.507	1.451	7.22
105)	TP 1,2,4,5-Tetram...	1.864	2.370	2.711	2.825	2.796	2.896	2.822		2.353	2.580	13.83
106)	TP 1,2-Dibromo-3-...	0.078	0.086	0.095	0.111	0.107	0.109	0.107		0.090	0.098	12.74
107)	TP 1,3,5-Trichlor...	0.906	1.054	1.122	1.132	1.101	1.128	1.109		1.065	1.077	6.93
108)	TP Hexachlorobuta...	0.417	0.507	0.527	0.550	0.532	0.548	0.568		0.530	0.522	8.87

Response Factor Report VOA 123

Method Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Method File : V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021
 Response Via : Initial Calibration

Calibration Files

L1 =V23211020N06.D L2 =V23211020N08.D L3 =V23211020N09.D L4 =V23211020N10.D L6 =V23211020N11.D
 L7 =V23211020N12.D L8 =V23211020N13.D L0 =V23211020N04.D L1.5=V23211020N07.D

Compound		L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
109) TP	1,2,4-Trichlor...	0.885	0.930	1.019	1.045	0.995	1.024	1.025	0.997	0.990	5.55	
110) TP	Naphthalene	1.816	1.880	2.117	2.251	2.174	2.138	2.078	1.989	2.056	7.27	
111) TP	1,2,3-Trichlor...	0.817	0.882	0.933	0.961	0.912	0.926	0.903	0.956	0.911	5.07	

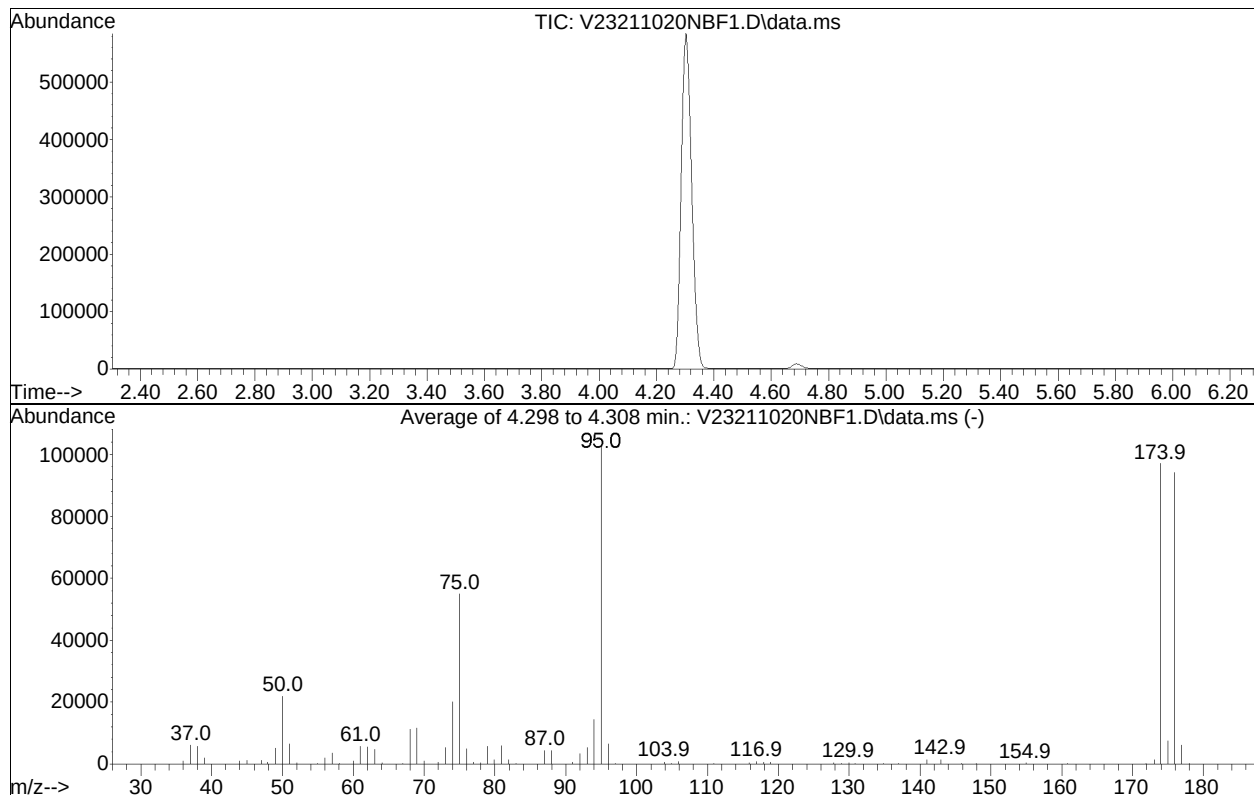
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020NBF1.D
 Acq On : 20 Oct 2021 07:11 pm
 Operator : VOA123:JC
 Sample : WG1561383-1
 Misc : WG1561383,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021



Spectrum Information: Average of 4.298 to 4.308 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	21955	PASS
75	95	30	60	53.3	54949	PASS
95	95	100	100	100.0	103139	PASS
96	95	5	9	6.4	6606	PASS
173	174	0.00	2	1.5	1474	PASS
174	95	50	100	94.1	97085	PASS
175	174	5	9	7.8	7585	PASS
176	174	95	101	96.9	94109	PASS
177	176	5	9	6.5	6116	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N04.D
 Acq On : 20 Oct 2021 08:51 pm
 Operator : VOA123:JC
 Sample : I8260STD0.5PPB
 Misc : WG1561383,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:59:10 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-L0_OH - Level 0.5ppb for Soils OH

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	229178	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	93.64%	
59) Chlorobenzene-d5	9.237	117	181511	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	93.03%	
79) 1,4-Dichlorobenzene-d4	12.000	152	97476	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	83.78%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	63210	20.240	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.20%	
43) 1,2-Dichloroethane-d4	5.451	65	56174	20.440	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.20%	
60) Toluene-d8	7.407	98	227803	20.285	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.43%	
83) 4-Bromofluorobenzene	10.762	95	78013	20.970	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	104.85%	
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	4.958	97	1845	0.399	ug/L #	95
40) 1,1-Dichloropropene	5.079	75	1482	0.405	ug/L #	83
41) Benzene	5.315	78	5028	0.443	ug/L	95
48) Trichloroethene	5.902	95	1309	0.417	ug/L	96
54) Bromodichloromethane	6.515	83	1618	0.391	ug/L #	89
58) cis-1,3-Dichloropropene	7.197	75	1890	0.415	ug/L #	86
63) Tetrachloroethene	7.905	166	1301	0.396	ug/L	90
69) Chlorodibromomethane	8.330	129	1198	0.621	ug/L	87
71) 1,2-Dibromoethane	8.607	107	985	0.401	ug/L	99
73) Chlorobenzene	9.252	112	3537	0.409	ug/L #	69
75) 1,1,1,2-Tetrachloroethane	9.336	131	1282	0.392	ug/L #	61
76) p/m Xylene	9.494	106	4853	0.860	ug/L	95
77) o Xylene	10.039	106	4649	0.849	ug/L	90
78) Styrene	10.102	104	7014	1.279	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.019	83	1234	0.436	ug/L	97

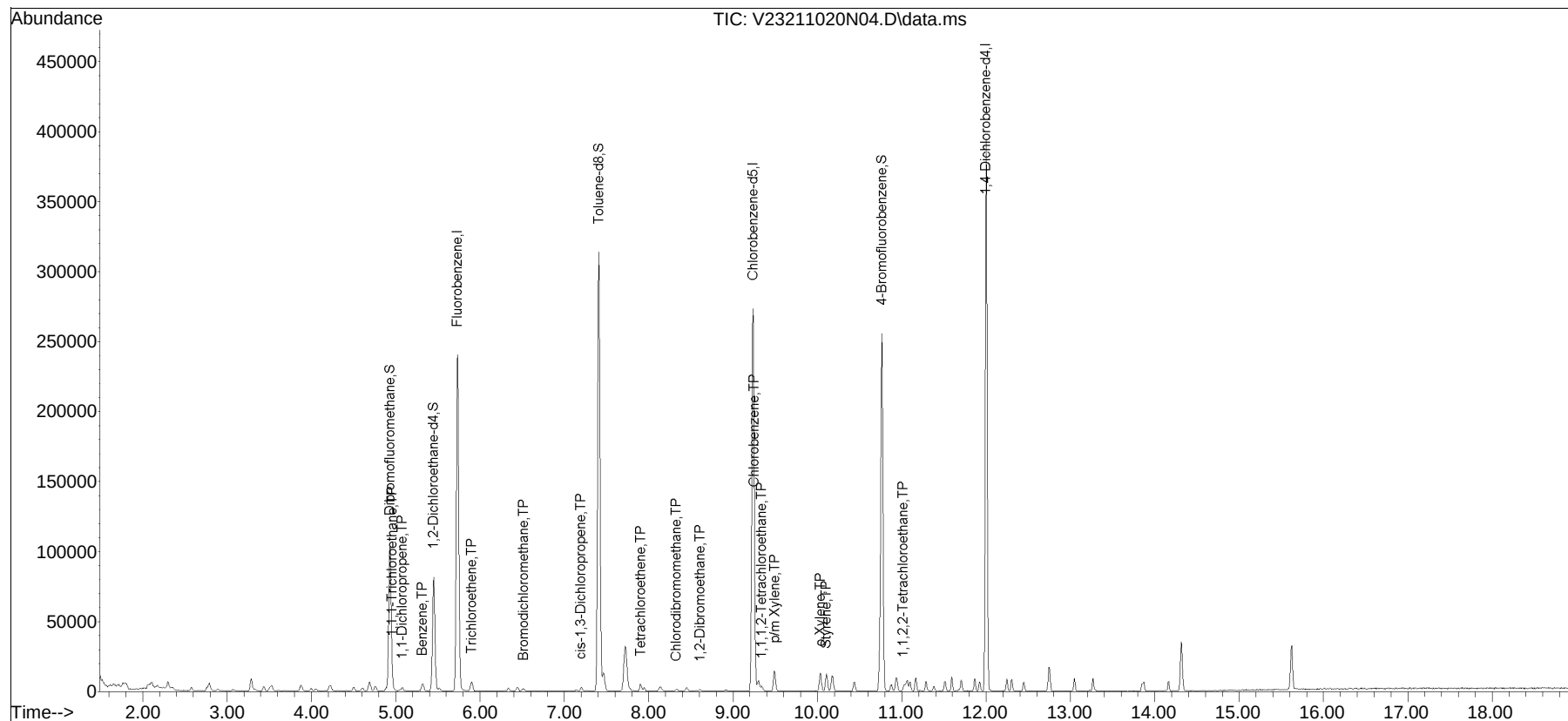
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N04.D
 Acq On : 20 Oct 2021 08:51 pm
 Operator : VOA123:JC
 Sample : I8260STD0.5PPB
 Misc : WG1561383,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:59:10 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Sub List : 8260-L0_OH - Level 0.5ppb for Soils OHCAL\V23211020N10.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA123\2021\2Q	Method	: V123_211020N_8260.m
Data File	: V23211020N04.D	Operator	: VOA123:JC
Date Inj'd	: 10/20/2021 8:51 pm	Instrument	: VOA 123
Sample	: I8260STD0.5PPB	Quant Date	: 10/21/2021 2:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N06.D
 Acq On : 20 Oct 2021 09:41 pm
 Operator : VOA123:JC
 Sample : I8260STD1PPB
 Misc : WG1561383,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:43:40 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:40:45 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	226430	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	92.52%	
59) Chlorobenzene-d5	9.237	117	178821	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	91.65%	
79) 1,4-Dichlorobenzene-d4	12.000	152	97771	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	84.03%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	61309	19.869	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.34%	
43) 1,2-Dichloroethane-d4	5.451	65	54617	20.115	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.57%	
60) Toluene-d8	7.407	98	225667	20.397	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.98%	
83) 4-Bromofluorobenzene	10.762	95	75323	20.186	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.93%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	2625	0.838	ug/L	89
3) Chloromethane	1.702	50	2680	0.897	ug/L #	94
4) Vinyl chloride	1.765	62	2648	0.812	ug/L	98
5) Bromomethane	2.059	94	2543	0.871	ug/L	96
6) Chloroethane	2.174	64	1925	0.780	ug/L	93
7) Trichlorofluoromethane	2.300	101	4823	0.775	ug/L	100
8) Ethyl ether	2.578	74	1282	0.858	ug/L #	81
10) 1,1-Dichloroethene	2.761	96	1994	0.793	ug/L	99
11) Carbon disulfide	2.788	76	8484	1.067	ug/L	93
12) Freon-113	2.798	101	1965	0.760	ug/L	86
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.286	84	6279	1.937	ug/L	94
17) Acetone	3.333	43	1640	1.348	ug/L #	58
18) trans-1,2-Dichloroethene	3.438	96	2458	0.838	ug/L	93
19) Methyl acetate	3.448	43	1678	1.157	ug/L #	64
20) Methyl tert-butyl ether	3.532	73	6636	0.911	ug/L #	67
21) tert-Butyl alcohol	3.605	59	920	4.348	ug/L	100
22) Diisopropyl ether	3.878	45	7178	0.845	ug/L	91
23) 1,1-Dichloroethane	3.999	63	4568	0.887	ug/L	96
24) Halothane	4.046	117	1576	0.714	ug/L	88
25) Acrylonitrile	4.046	53	612	0.919	ug/L #	89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N06.D
 Acq On : 20 Oct 2021 09:41 pm
 Operator : VOA123:JC
 Sample : I8260STD1PPB
 Misc : WG1561383,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:43:40 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:40:45 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
26) Ethyl tert-butyl ether	4.219	59	6601	0.843	ug/L		91
27) Vinyl acetate	4.235	43	4326	0.800	ug/L	#	79
28) cis-1,2-Dichloroethene	4.502	96	2860	0.856	ug/L		97
29) 2,2-Dichloropropane	4.602	77	3333	0.792	ug/L		85
30) Bromochloromethane	4.691	128	1431	0.844	ug/L	#	77
31) Cyclohexane	4.691	56	2947	0.729	ug/L		99
32) Chloroform	4.764	83	5372	0.944	ug/L		97
33) Ethyl acetate	4.880	43	1989	0.932	ug/L	#	70
34) Carbon tetrachloride	4.895	117	3210	0.743	ug/L		94
35) Tetrahydrofuran	4.922	42	715	0.950	ug/L	#	61
37) 1,1,1-Trichloroethane	4.963	97	3479	0.762	ug/L		97
39) 2-Butanone	5.058	43	931	0.994	ug/L	#	66
40) 1,1-Dichloropropene	5.074	75	2659	0.735	ug/L		96
41) Benzene	5.320	78	9475	0.844	ug/L		97
42) tert-Amyl methyl ether	5.430	73	6029	0.826	ug/L		98
44) 1,2-Dichloroethane	5.519	62	3472	0.924	ug/L		97
47) Methyl cyclohexane	5.897	83	3262	0.723	ug/L		99
48) Trichloroethene	5.902	95	2492	0.803	ug/L		94
50) Dibromomethane	6.332	93	1547	0.844	ug/L		90
51) 1,2-Dichloropropane	6.442	63	2455	0.847	ug/L		97
53) 2-Chloroethyl vinyl ether	7.150	63	1022	0.710	ug/L	#	73
54) Bromodichloromethane	6.505	83	3456	0.845	ug/L	#	94
57) 1,4-Dioxane	6.736	88	628	28.508	ug/L	#	51
58) cis-1,3-Dichloropropene	7.202	75	3655	0.813	ug/L	#	87
61) Toluene	7.464	92	6338	0.874	ug/L		94
62) 4-Methyl-2-pentanone	7.910	58	535	0.715	ug/L	#	17
63) Tetrachloroethene	7.905	166	2680	0.828	ug/L		94
65) trans-1,3-Dichloropropene	7.947	75	2997	0.769	ug/L		90
67) Ethyl methacrylate	8.151	69	2518	0.837	ug/L		85
68) 1,1,2-Trichloroethane	8.125	83	1894	0.915	ug/L		97
69) Chlorodibromomethane	8.335	129	2435	0.979	ug/L		92
70) 1,3-Dichloropropane	8.450	76	3643	0.899	ug/L		97
71) 1,2-Dibromoethane	8.607	107	2043	0.844	ug/L		95
72) 2-Hexanone	8.912	43	1077	0.780	ug/L	#	76
73) Chlorobenzene	9.258	112	7493	0.880	ug/L		96
74) Ethylbenzene	9.305	91	11801	0.837	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.341	131	2606	0.809	ug/L	#	65
76) p/m Xylene	9.493	106	8850	1.592	ug/L		97
77) o Xylene	10.039	106	8487	1.574	ug/L		100
78) Styrene	10.107	104	13492	1.902	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N06.D
 Acq On : 20 Oct 2021 09:41 pm
 Operator : VOA123:JC
 Sample : I8260STD1PPB
 Misc : WG1561383,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:43:40 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:40:45 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.112	173	1318	0.647	ug/L	98
82)	Isopropylbenzene	10.437	105	10506	0.773	ug/L	98
84)	Bromobenzene	10.872	156	3184	0.850	ug/L	99
85)	n-Propylbenzene	10.935	91	13057	0.807	ug/L	99
86)	1,4-Dichlorobutane	10.946	55	3577	0.966	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.014	83	2658	0.937	ug/L	96
88)	4-Ethyltoluene	11.061	105	11567	0.842	ug/L	99
89)	2-Chlorotoluene	11.098	91	7219M6	0.769	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	9206	0.780	ug/L	98
91)	1,2,3-Trichloropropane	11.156	75	2150	0.946	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.224	53	477	0.626	ug/L #	68
93)	4-Chlorotoluene	11.287	91	8309	0.841	ug/L	95
94)	tert-Butylbenzene	11.512	119	7801	0.756	ug/L	95
97)	1,2,4-Trimethylbenzene	11.596	105	9937	0.823	ug/L	95
98)	sec-Butylbenzene	11.701	105	11649	0.758	ug/L	99
99)	p-Isopropyltoluene	11.863	119	10296	0.766	ug/L	98
100)	1,3-Dichlorobenzene	11.921	146	6589	0.874	ug/L	97
101)	1,4-Dichlorobenzene	12.015	146	6691	0.875	ug/L #	84
102)	p-Diethylbenzene	12.246	119	6286	0.782	ug/L	92
103)	n-Butylbenzene	12.304	91	9171	0.768	ug/L	96
104)	1,2-Dichlorobenzene	12.445	146	5927	0.835	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.048	119	9110	0.722	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	380	0.795	ug/L	97
107)	1,3,5-Trichlorobenzene	13.269	180	4431	0.842	ug/L	98
108)	Hexachlorobutadiene	13.845	225	2037	0.798	ug/L	94
109)	1,2,4-Trichlorobenzene	13.866	180	4325	0.894	ug/L	93
110)	Naphthalene	14.165	128	8877	0.883	ug/L	100
111)	1,2,3-Trichlorobenzene	14.333	180	3995	0.897	ug/L	99

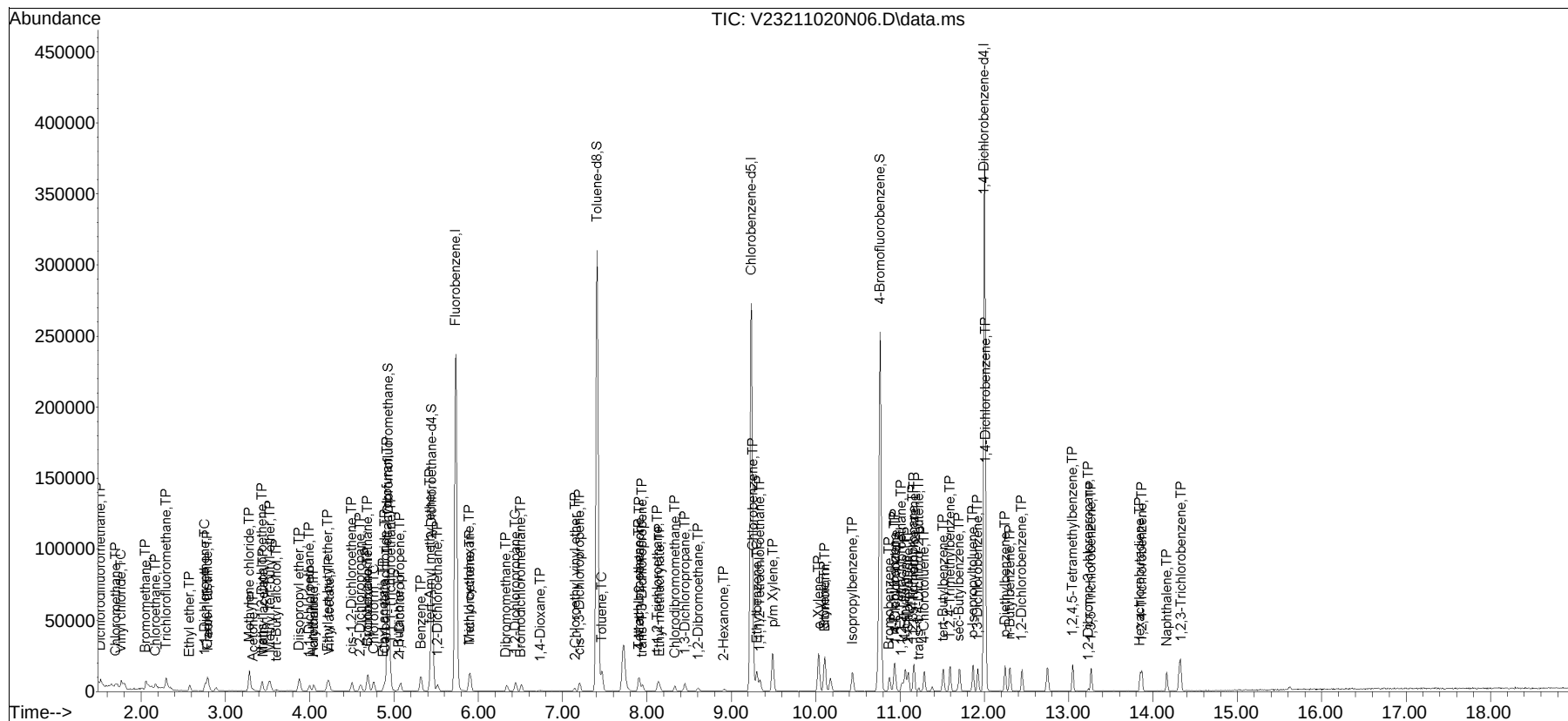
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N06.D
Acq On : 20 Oct 2021 09:41 pm
Operator : VOA123:JC
Sample : I8260STD1PPB
Misc : WG1561383,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 08:43:40 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:40:45 2021
Response via : Initial Calibration

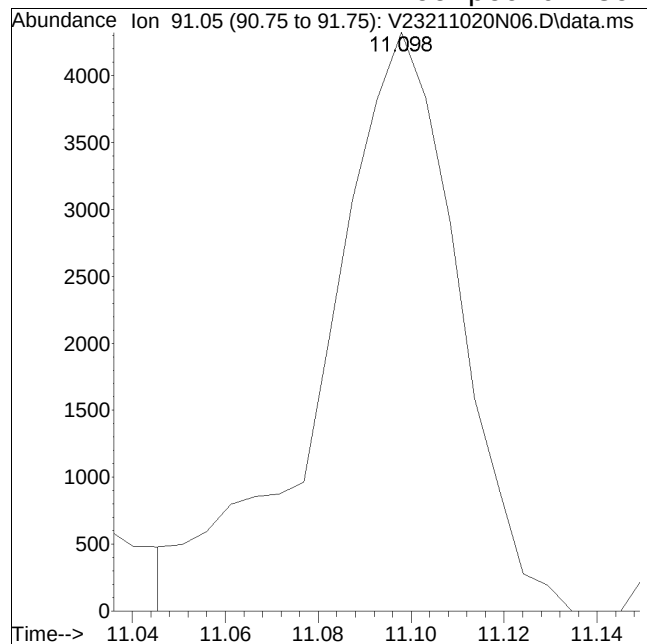
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

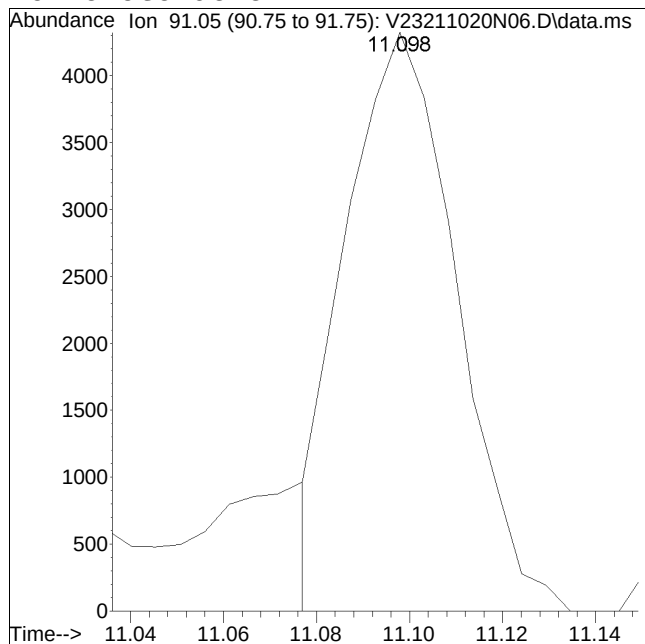
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N06.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 9:41 pm Instrument : VOA 123
Sample : I8260STD1PPB Quant Date : 10/21/2021 8:43 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 8661

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 7219 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N07.D
 Acq On : 20 Oct 2021 10:06 pm
 Operator : VOA123:JC
 Sample : I8260STD2PPB
 Misc : WG1561383,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:59:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	223354	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	91.26%	
59) Chlorobenzene-d5	9.236	117	177993	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	91.23%	
79) 1,4-Dichlorobenzene-d4	12.000	152	96844	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	83.24%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	61391	20.170	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.85%	
43) 1,2-Dichloroethane-d4	5.451	65	54003	20.163	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.82%	
60) Toluene-d8	7.407	98	222132	20.171	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.86%	
83) 4-Bromofluorobenzene	10.762	95	75221	20.351	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.76%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	6593	2.134	ug/L	97
3) Chloromethane	1.707	50	6874	2.331	ug/L	98
4) Vinyl chloride	1.765	62	7111	2.211	ug/L	96
5) Bromomethane	2.059	94	6327	2.198	ug/L	95
6) Chloroethane	2.174	64	5129	2.108	ug/L	97
7) Trichlorofluoromethane	2.300	101	12406	2.022	ug/L	96
8) Ethyl ether	2.583	74	3093	2.098	ug/L #	90
10) 1,1-Dichloroethene	2.761	96	5189	2.092	ug/L	97
11) Carbon disulfide	2.787	76	17738	2.261	ug/L	96
12) Freon-113	2.798	101	5174	2.030	ug/L	94
14) Acrolein	3.060	56	451	1.829	ug/L	89
15) Methylene chloride	3.286	84	9648	3.017	ug/L	92
17) Acetone	3.328	43	1503	1.556	ug/L #	64
18) trans-1,2-Dichloroethene	3.438	96	5893	2.036	ug/L	99
19) Methyl acetate	3.448	43	3139	2.194	ug/L #	89
20) Methyl tert-butyl ether	3.532	73	14019	1.951	ug/L #	72
21) tert-Butyl alcohol	3.605	59	2117	10.144	ug/L #	76
22) Diisopropyl ether	3.878	45	16584	1.978	ug/L	91
23) 1,1-Dichloroethane	3.999	63	10808	2.128	ug/L	99
24) Halothane	4.051	117	4656	2.138	ug/L	93
25) Acrylonitrile	4.051	53	1177	1.792	ug/L #	89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N07.D
 Acq On : 20 Oct 2021 10:06 pm
 Operator : VOA123:JC
 Sample : I8260STD2PPB
 Misc : WG1561383,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:59:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.208	59	14831	1.921	ug/L	94
27) Vinyl acetate	4.235	43	10297	1.930	ug/L #	86
28) cis-1,2-Dichloroethene	4.502	96	6673	2.025	ug/L	98
29) 2,2-Dichloropropane	4.607	77	8207	1.977	ug/L	86
30) Bromochloromethane	4.691	128	3578	2.139	ug/L	97
31) Cyclohexane	4.696	56	8032	2.015	ug/L	99
32) Chloroform	4.759	83	12529	2.233	ug/L	97
33) Ethyl acetate	4.879	43	4306	2.046	ug/L #	87
34) Carbon tetrachloride	4.890	117	8394	1.969	ug/L	97
35) Tetrahydrofuran	4.916	42	1496	2.016	ug/L #	79
37) 1,1,1-Trichloroethane	4.958	97	9628	2.137	ug/L	97
39) 2-Butanone	5.058	43	1758	1.903	ug/L	99
40) 1,1-Dichloropropene	5.079	75	7488	2.097	ug/L	98
41) Benzene	5.320	78	23417	2.115	ug/L	98
42) tert-Amyl methyl ether	5.430	73	13753	1.911	ug/L	96
44) 1,2-Dichloroethane	5.519	62	7753	2.092	ug/L	96
47) Methyl cyclohexane	5.897	83	8472	1.903	ug/L	100
48) Trichloroethene	5.902	95	6164	2.014	ug/L	91
50) Dibromomethane	6.342	93	3646	2.017	ug/L	97
51) 1,2-Dichloropropane	6.447	63	5744	2.008	ug/L	97
53) 2-Chloroethyl vinyl ether	7.144	63	2685	1.892	ug/L	91
54) Bromodichloromethane	6.510	83	7895	1.957	ug/L	97
57) 1,4-Dioxane	6.730	88	1619	74.507	ug/L #	89
58) cis-1,3-Dichloropropene	7.202	75	8199	1.849	ug/L #	87
61) Toluene	7.464	92	14614	2.024	ug/L	94
62) 4-Methyl-2-pentanone	7.905	58	1446	1.941	ug/L #	63
63) Tetrachloroethene	7.900	166	6757	2.096	ug/L	98
65) trans-1,3-Dichloropropene	7.947	75	6993	1.802	ug/L	86
67) Ethyl methacrylate	8.146	69	5364	1.791	ug/L #	78
68) 1,1,2-Trichloroethane	8.125	83	4231	2.053	ug/L	96
69) Chlorodibromomethane	8.329	129	5734	1.926	ug/L	97
70) 1,3-Dichloropropane	8.445	76	8289	2.054	ug/L	99
71) 1,2-Dibromoethane	8.602	107	4906	2.035	ug/L	97
72) 2-Hexanone	8.906	43	2871	2.090	ug/L #	79
73) Chlorobenzene	9.257	112	17354	2.047	ug/L	94
74) Ethylbenzene	9.305	91	28212	2.010	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.341	131	5934	1.851	ug/L	98
76) p/m Xylene	9.488	106	21651	3.914	ug/L	95
77) o Xylene	10.033	106	20704	3.857	ug/L	98
78) Styrene	10.102	104	33642	3.823	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N07.D
 Acq On : 20 Oct 2021 10:06 pm
 Operator : VOA123:JC
 Sample : I8260STD2PPB
 Misc : WG1561383,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:59:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	3073	1.524	ug/L	98
82)	Isopropylbenzene	10.437	105	27183	2.018	ug/L	100
84)	Bromobenzene	10.872	156	7734	2.085	ug/L	95
85)	n-Propylbenzene	10.930	91	32953	2.056	ug/L	98
86)	1,4-Dichlorobutane	10.946	55	7402	2.018	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.019	83	5979	2.127	ug/L	97
88)	4-Ethyltoluene	11.066	105	28021	2.059	ug/L	99
89)	2-Chlorotoluene	11.098	91	18215M6	1.959	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	22243	1.902	ug/L	95
91)	1,2,3-Trichloropropane	11.161	75	4667	2.072	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.218	53	1408	1.865	ug/L #	67
93)	4-Chlorotoluene	11.287	91	19385	1.981	ug/L	93
94)	tert-Butylbenzene	11.512	119	20014	1.959	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	24104	2.016	ug/L	100
98)	sec-Butylbenzene	11.706	105	30412	1.999	ug/L	99
99)	p-Isopropyltoluene	11.863	119	25382	1.906	ug/L	98
100)	1,3-Dichlorobenzene	11.921	146	15114	2.025	ug/L	97
101)	1,4-Dichlorobenzene	12.015	146	15563	2.055	ug/L	95
102)	p-Diethylbenzene	12.246	119	14667	1.843	ug/L	97
103)	n-Butylbenzene	12.304	91	23490	1.987	ug/L	98
104)	1,2-Dichlorobenzene	12.445	146	14593	2.077	ug/L	96
105)	1,2,4,5-Tetramethylben...	13.048	119	22789	1.824	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	871	1.840	ug/L	93
107)	1,3,5-Trichlorobenzene	13.263	180	10313	1.977	ug/L	96
108)	Hexachlorobutadiene	13.850	225	5133	2.029	ug/L	96
109)	1,2,4-Trichlorobenzene	13.866	180	9656	2.014	ug/L	97
110)	Naphthalene	14.160	128	19267	1.936	ug/L	100
111)	1,2,3-Trichlorobenzene	14.333	180	9263	2.099	ug/L	96

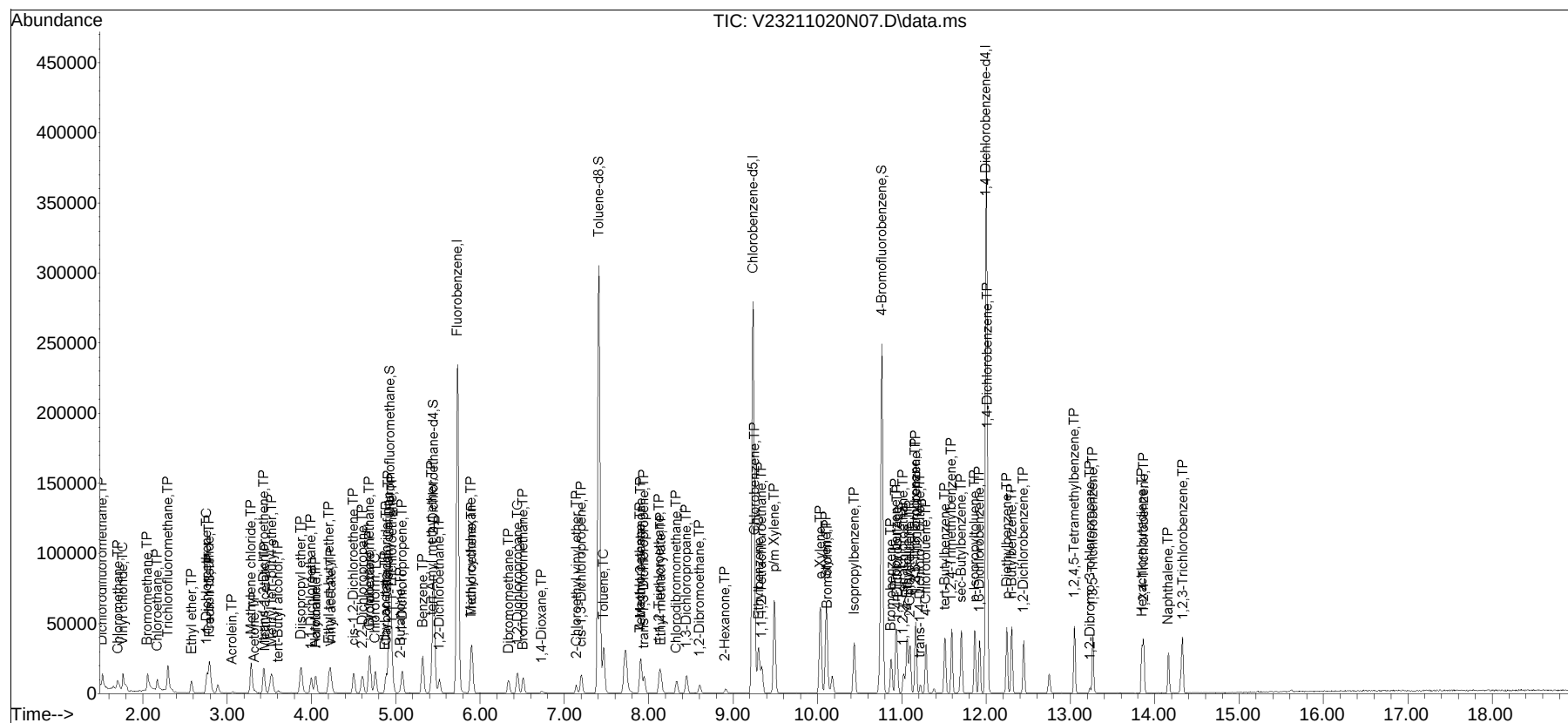
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N07.D
Acq On : 20 Oct 2021 10:06 pm
Operator : VOA123:JC
Sample : I8260STD2PPB
Misc : WG1561383,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:59:42 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:44:24 2021
Response via : Initial Calibration

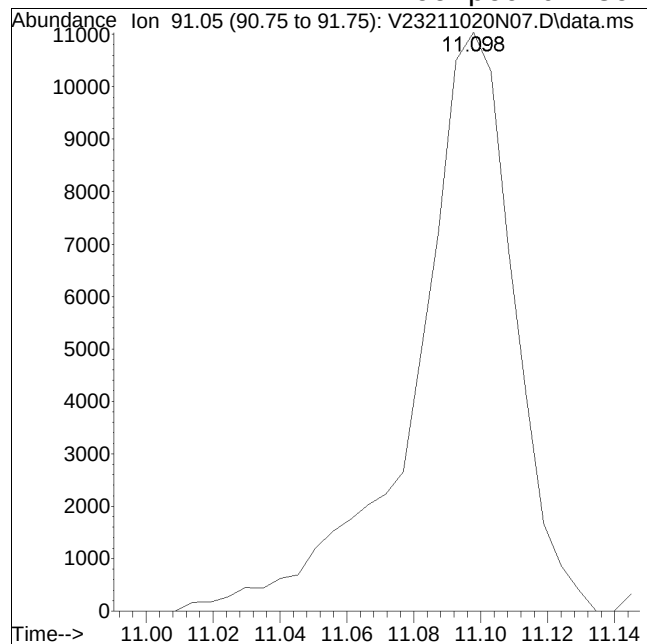
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

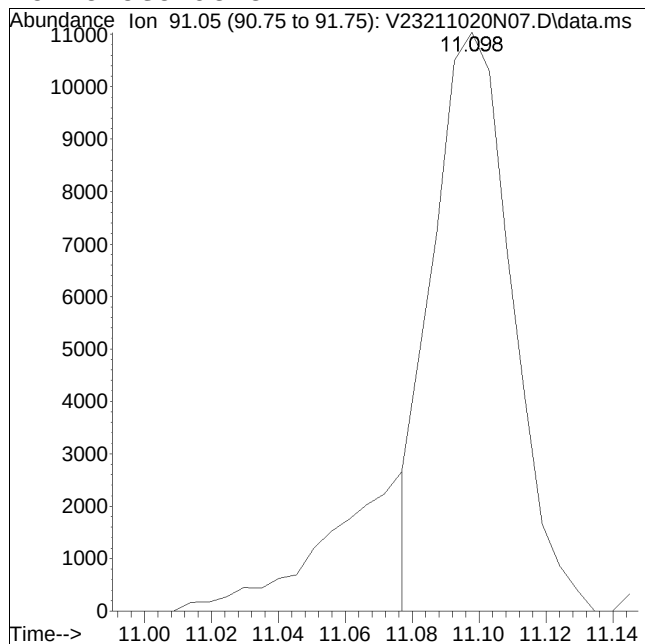
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Data File : V23211020N07.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 10:06 pm Instrument : VOA 123
Sample : I8260STD2PPB Quant Date : 10/21/2021 2:59 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 22684

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 18215 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N08.D
 Acq On : 20 Oct 2021 10:31 pm
 Operator : VOA123:JC
 Sample : I8260STD4PPB
 Misc : WG1561383,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:24:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	223304	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	91.24%	
59) Chlorobenzene-d5	9.236	117	178332	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	91.40%	
79) 1,4-Dichlorobenzene-d4	12.000	152	96462	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	82.91%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	60881	19.886	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.43%	
43) 1,2-Dichloroethane-d4	5.451	65	51858	19.317	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	96.58%	
60) Toluene-d8	7.407	98	223945	20.037	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.18%	
83) 4-Bromofluorobenzene	10.762	95	75039	20.348	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.74%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	12748	3.861	ug/L	99
3) Chloromethane	1.702	50	12460	4.159	ug/L	99
4) Vinyl chloride	1.765	62	13541	3.953	ug/L	98
5) Bromomethane	2.059	94	11480	3.893	ug/L	97
6) Chloroethane	2.174	64	9560	3.837	ug/L	98
7) Trichlorofluoromethane	2.300	101	24567	3.841	ug/L	99
8) Ethyl ether	2.583	74	5918	3.836	ug/L #	92
10) 1,1-Dichloroethene	2.761	96	10096	3.891	ug/L	99
11) Carbon disulfide	2.787	76	31050	4.018	ug/L	98
12) Freon-113	2.798	101	10493	3.838	ug/L	98
14) Acrolein	3.065	56	954	3.732	ug/L	100
15) Methylene chloride	3.285	84	15188	4.805	ug/L	92
17) Acetone	3.327	43	2768	4.835	ug/L #	80
18) trans-1,2-Dichloroethene	3.432	96	11721	3.901	ug/L	96
19) Methyl acetate	3.443	43	5638	4.000	ug/L #	85
20) Methyl tert-butyl ether	3.532	73	27918	3.662	ug/L #	85
21) tert-Butyl alcohol	3.605	59	4050	17.705	ug/L #	80
22) Diisopropyl ether	3.873	45	32203	3.628	ug/L	92
23) 1,1-Dichloroethane	3.999	63	20063	3.812	ug/L	96
24) Halothane	4.051	117	8764	3.818	ug/L	97
25) Acrylonitrile	4.046	53	2548	3.504	ug/L #	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N08.D
 Acq On : 20 Oct 2021 10:31 pm
 Operator : VOA123:JC
 Sample : I8260STD4PPB
 Misc : WG1561383,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:24:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.214	59	29284	3.589	ug/L	95
27) Vinyl acetate	4.234	43	20328	3.473	ug/L #	93
28) cis-1,2-Dichloroethene	4.502	96	13282	3.877	ug/L	95
29) 2,2-Dichloropropane	4.607	77	16601	3.770	ug/L	90
30) Bromochloromethane	4.685	128	6805	3.917	ug/L	98
31) Cyclohexane	4.691	56	15079	3.470	ug/L	98
32) Chloroform	4.759	83	22240	3.888	ug/L	96
33) Ethyl acetate	4.874	43	7701	3.363	ug/L #	94
34) Carbon tetrachloride	4.890	117	15914	3.457	ug/L #	95
35) Tetrahydrofuran	4.916	42	2774	3.397	ug/L #	81
37) 1,1,1-Trichloroethane	4.958	97	18039	3.650	ug/L	99
39) 2-Butanone	5.052	43	3746	3.841	ug/L	96
40) 1,1-Dichloropropene	5.079	75	14479	3.635	ug/L	98
41) Benzene	5.320	78	44137	3.714	ug/L	98
42) tert-Amyl methyl ether	5.430	73	26963	3.472	ug/L	97
44) 1,2-Dichloroethane	5.519	62	14692	3.763	ug/L	99
47) Methyl cyclohexane	5.891	83	16556	3.415	ug/L	99
48) Trichloroethene	5.902	95	12111	3.667	ug/L	94
50) Dibromomethane	6.337	93	7015	3.654	ug/L	96
51) 1,2-Dichloropropane	6.442	63	11535	3.824	ug/L	98
53) 2-Chloroethyl vinyl ether	7.144	63	4462	2.836	ug/L	95
54) Bromodichloromethane	6.510	83	15422	3.451	ug/L #	97
57) 1,4-Dioxane	6.735	88	4102	164.110	ug/L #	85
58) cis-1,3-Dichloropropene	7.197	75	16701	3.416	ug/L #	92
61) Toluene	7.464	92	28268	3.702	ug/L	98
62) 4-Methyl-2-pentanone	7.899	58	2755	3.238	ug/L	78
63) Tetrachloroethene	7.905	166	12678	3.568	ug/L	97
65) trans-1,3-Dichloropropene	7.947	75	13630	3.125	ug/L	87
67) Ethyl methacrylate	8.146	69	10463	3.121	ug/L	83
68) 1,1,2-Trichloroethane	8.125	83	8175	3.710	ug/L	97
69) Chlorodibromomethane	8.329	129	11090	3.142	ug/L	97
70) 1,3-Dichloropropane	8.445	76	15628	3.591	ug/L	98
71) 1,2-Dibromoethane	8.602	107	9398	3.430	ug/L	97
72) 2-Hexanone	8.911	43	5165	3.374	ug/L	87
73) Chlorobenzene	9.257	112	34401	3.771	ug/L	89
74) Ethylbenzene	9.299	91	53177	3.506	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.336	131	11747	3.235	ug/L	99
76) p/m Xylene	9.493	106	41123	6.726	ug/L	98
77) o Xylene	10.033	106	39856	6.710	ug/L	97
78) Styrene	10.102	104	66399	6.337	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N08.D
 Acq On : 20 Oct 2021 10:31 pm
 Operator : VOA123:JC
 Sample : I8260STD4PPB
 Misc : WG1561383,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:24:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.123	173	6397	3.210	ug/L	95
82)	Isopropylbenzene	10.437	105	51470	3.560	ug/L	98
84)	Bromobenzene	10.872	156	14794	3.858	ug/L	100
85)	n-Propylbenzene	10.930	91	63056	3.699	ug/L	98
86)	1,4-Dichlorobutane	10.946	55	13969	3.698	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.019	83	11530	3.874	ug/L	98
88)	4-Ethyltoluene	11.061	105	52318	3.665	ug/L	98
89)	2-Chlorotoluene	11.098	91	36763M6	3.723	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	45098	3.595	ug/L	99
91)	1,2,3-Trichloropropane	11.161	75	8388	3.591	ug/L	93
92)	trans-1,4-Dichloro-2-b...	11.218	53	2669	3.259	ug/L #	74
93)	4-Chlorotoluene	11.286	91	38344	3.691	ug/L	92
94)	tert-Butylbenzene	11.512	119	39018	3.546	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	45994	3.633	ug/L	100
98)	sec-Butylbenzene	11.706	105	58316	3.510	ug/L	96
99)	p-Isopropyltoluene	11.863	119	49425	3.417	ug/L	98
100)	1,3-Dichlorobenzene	11.921	146	28109	3.596	ug/L	99
101)	1,4-Dichlorobenzene	12.015	146	29779	3.813	ug/L	99
102)	p-Diethylbenzene	12.246	119	29514	3.428	ug/L	97
103)	n-Butylbenzene	12.304	91	46799	3.623	ug/L	95
104)	1,2-Dichlorobenzene	12.445	146	26841	3.661	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	45723	3.356	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	1657	3.096	ug/L	95
107)	1,3,5-Trichlorobenzene	13.268	180	20330	3.724	ug/L	99
108)	Hexachlorobutadiene	13.850	225	9786	3.692	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	17941	3.558	ug/L	98
110)	Naphthalene	14.160	128	36272	3.340	ug/L	100
111)	1,2,3-Trichlorobenzene	14.333	180	17024	3.672	ug/L	99

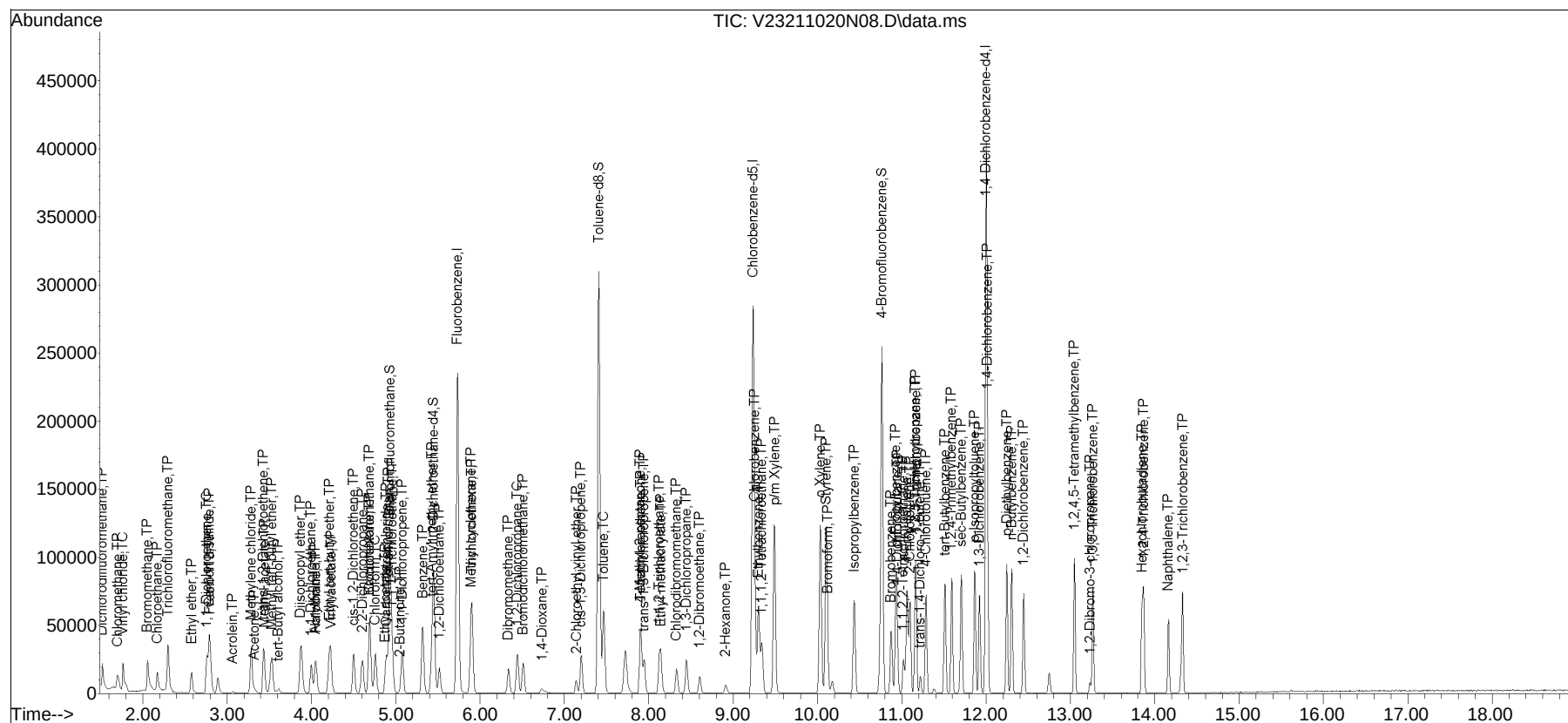
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N08.D
Acq On : 20 Oct 2021 10:31 pm
Operator : VOA123:JC
Sample : I8260STD4PPB
Misc : WG1561383,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 08:24:56 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:03:12 2021
Response via : Initial Calibration

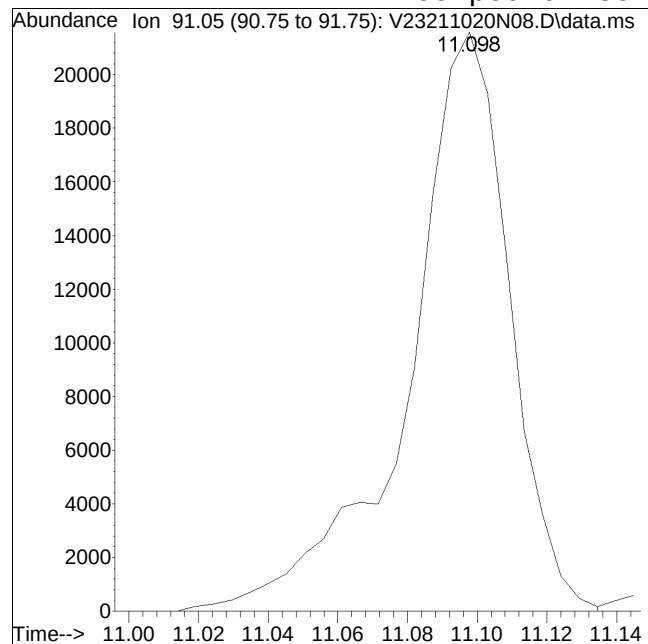
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

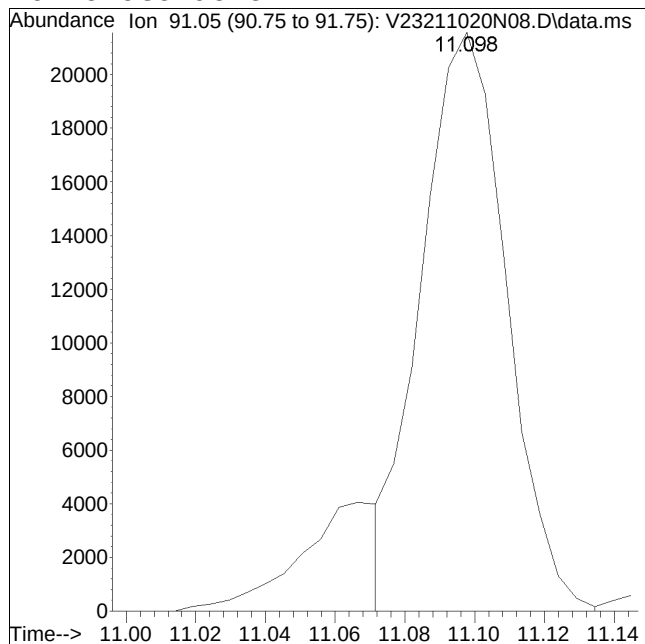
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N08.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 10:31 pm Instrument : VOA 123
Sample : I8260STD4PPB Quant Date : 10/21/2021 8:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 43280

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 36763 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N09.D
 Acq On : 20 Oct 2021 10:56 pm
 Operator : VOA123:JC
 Sample : I8260STD20PPB
 Misc : WG1561383,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:25:48 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.729	96	234196	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	95.69%	
59) Chlorobenzene-d5	9.236	117	184406	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	94.51%	
79) 1,4-Dichlorobenzene-d4	11.999	152	105321	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	90.52%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.927	113	63637	19.820	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.10%	
43) 1,2-Dichloroethane-d4	5.446	65	54943	19.515	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.58%	
60) Toluene-d8	7.407	98	232902	20.153	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.76%	
83) 4-Bromofluorobenzene	10.762	95	80141	19.904	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.52%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.519	85	61593	17.786	ug/L	98
3) Chloromethane	1.702	50	61299	19.509	ug/L	99
4) Vinyl chloride	1.765	62	68165	18.971	ug/L	99
5) Bromomethane	2.053	94	59017	19.081	ug/L	99
6) Chloroethane	2.169	64	49095	18.789	ug/L	100
7) Trichlorofluoromethane	2.294	101	119168	17.766	ug/L	99
8) Ethyl ether	2.572	74	31682	19.583	ug/L	93
10) 1,1-Dichloroethene	2.756	96	50553	18.577	ug/L	99
11) Carbon disulfide	2.782	76	149724	18.473	ug/L	99
12) Freon-113	2.798	101	50694	17.681	ug/L	96
14) Acrolein	3.060	56	5114	19.073	ug/L	93
15) Methylene chloride	3.285	84	69690	21.021	ug/L	94
17) Acetone	3.333	43	12165	20.261	ug/L	89
18) trans-1,2-Dichloroethene	3.432	96	60639	19.241	ug/L	96
19) Methyl acetate	3.443	43	28298	19.143	ug/L #	91
20) Methyl tert-butyl ether	3.527	73	151121	18.899	ug/L	93
21) tert-Butyl alcohol	3.605	59	21192	88.336	ug/L #	86
22) Diisopropyl ether	3.873	45	179341	19.263	ug/L	94
23) 1,1-Dichloroethane	3.993	63	107168	19.414	ug/L	99
24) Halothane	4.046	117	44290	18.395	ug/L	100
25) Acrylonitrile	4.046	53	13879	18.197	ug/L #	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N09.D
 Acq On : 20 Oct 2021 10:56 pm
 Operator : VOA123:JC
 Sample : I8260STD20PPB
 Misc : WG1561383,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:25:48 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.213	59	164638	19.241	ug/L	96
27) Vinyl acetate	4.229	43	118310	19.271	ug/L	95
28) cis-1,2-Dichloroethene	4.497	96	69701	19.400	ug/L	97
29) 2,2-Dichloropropane	4.601	77	85104	18.427	ug/L	92
30) Bromochloromethane	4.691	128	35099	19.264	ug/L	100
31) Cyclohexane	4.691	56	79743	17.499	ug/L	98
32) Chloroform	4.759	83	115905	19.322	ug/L	97
33) Ethyl acetate	4.874	43	43635	18.167	ug/L	97
34) Carbon tetrachloride	4.890	117	84284	17.458	ug/L	100
35) Tetrahydrofuran	4.906	42	15772	18.417	ug/L #	86
37) 1,1,1-Trichloroethane	4.958	97	93670	18.070	ug/L	99
39) 2-Butanone	5.052	43	19815	19.375	ug/L	94
40) 1,1-Dichloropropene	5.073	75	74571	17.851	ug/L	98
41) Benzene	5.314	78	238514	19.135	ug/L	98
42) tert-Amyl methyl ether	5.430	73	151893	18.652	ug/L	98
44) 1,2-Dichloroethane	5.519	62	78767	19.237	ug/L	99
47) Methyl cyclohexane	5.891	83	90453	17.788	ug/L	100
48) Trichloroethene	5.902	95	63757	18.408	ug/L	93
50) Dibromomethane	6.332	93	38065	18.905	ug/L	99
51) 1,2-Dichloropropane	6.442	63	61107	19.314	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	27807	16.854	ug/L	95
54) Bromodichloromethane	6.510	83	87936	18.763	ug/L	99
57) 1,4-Dioxane	6.725	88	23426	893.626	ug/L	97
58) cis-1,3-Dichloropropene	7.197	75	96644	18.850	ug/L #	91
61) Toluene	7.464	92	151883	19.234	ug/L	99
62) 4-Methyl-2-pentanone	7.905	58	15622	17.754	ug/L #	73
63) Tetrachloroethene	7.905	166	67598	18.398	ug/L	98
65) trans-1,3-Dichloropropene	7.941	75	84359	18.704	ug/L	92
67) Ethyl methacrylate	8.146	69	63712	18.378	ug/L	90
68) 1,1,2-Trichloroethane	8.125	83	43775	19.210	ug/L	99
69) Chlorodibromomethane	8.329	129	66733	18.283	ug/L	97
70) 1,3-Dichloropropane	8.445	76	87159	19.370	ug/L	100
71) 1,2-Dibromoethane	8.602	107	53154	18.763	ug/L	99
72) 2-Hexanone	8.906	43	28853	18.227	ug/L #	85
73) Chlorobenzene	9.257	112	183549	19.457	ug/L #	84
74) Ethylbenzene	9.299	91	294880	18.800	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.341	131	69870	18.609	ug/L	99
76) p/m Xylene	9.488	106	233573	36.945	ug/L	97
77) o Xylene	10.033	106	227848	37.094	ug/L	97
78) Styrene	10.101	104	402368	37.139	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N09.D
 Acq On : 20 Oct 2021 10:56 pm
 Operator : VOA123:JC
 Sample : I8260STD20PPB
 Misc : WG1561383,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:25:48 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	38998	17.921	ug/L	99
82)	Isopropylbenzene	10.437	105	300049	19.008	ug/L	99
84)	Bromobenzene	10.872	156	81948	19.573	ug/L	100
85)	n-Propylbenzene	10.930	91	353427	18.991	ug/L	97
86)	1,4-Dichlorobutane	10.946	55	80483	19.512	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.019	83	63555	19.558	ug/L	99
88)	4-Ethyltoluene	11.061	105	300636	19.289	ug/L	99
89)	2-Chlorotoluene	11.098	91	210638M6	19.538	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	262070	19.132	ug/L	98
91)	1,2,3-Trichloropropane	11.161	75	48786	19.132	ug/L	93
92)	trans-1,4-Dichloro-2-b...	11.218	53	16501	18.455	ug/L #	80
93)	4-Chlorotoluene	11.286	91	221071	19.489	ug/L	93
94)	tert-Butylbenzene	11.512	119	227576	18.942	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	267401	19.343	ug/L	98
98)	sec-Butylbenzene	11.706	105	340314	18.761	ug/L	98
99)	p-Isopropyltoluene	11.863	119	299009	18.932	ug/L	99
100)	1,3-Dichlorobenzene	11.921	146	165688	19.416	ug/L	98
101)	1,4-Dichlorobenzene	12.015	146	170094	19.950	ug/L	98
102)	p-Diethylbenzene	12.246	119	177925	18.925	ug/L	98
103)	n-Butylbenzene	12.304	91	268929	19.068	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	156726	19.579	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	285512	19.191	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	9959	17.040	ug/L	100
107)	1,3,5-Trichlorobenzene	13.263	180	118167	19.823	ug/L	100
108)	Hexachlorobutadiene	13.845	225	55546	19.195	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	107349	19.499	ug/L	99
110)	Naphthalene	14.160	128	222994	18.809	ug/L	100
111)	1,2,3-Trichlorobenzene	14.327	180	98236	19.407	ug/L	100

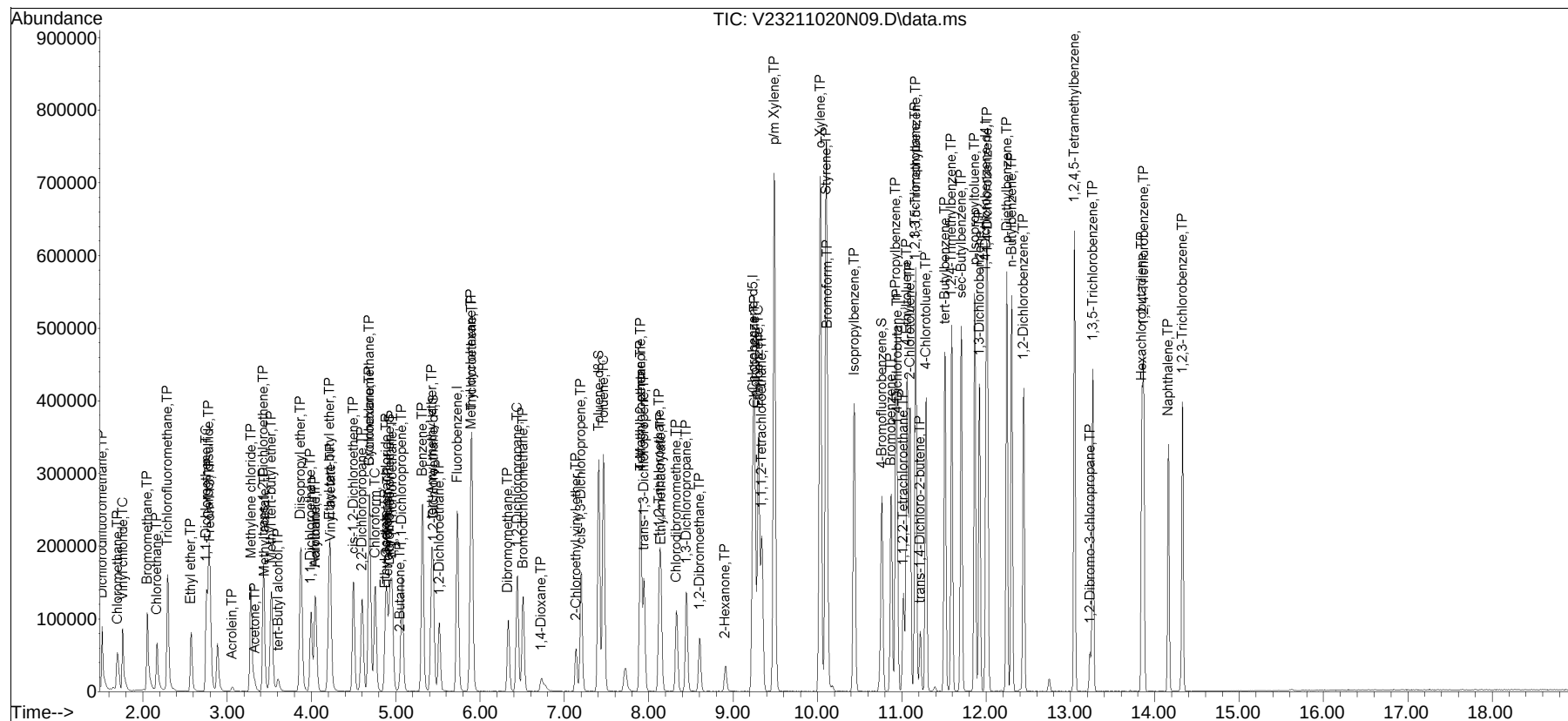
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N09.D
 Acq On : 20 Oct 2021 10:56 pm
 Operator : VOA123:JC
 Sample : I8260STD20PPB
 Misc : WG1561383,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 08:25:48 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

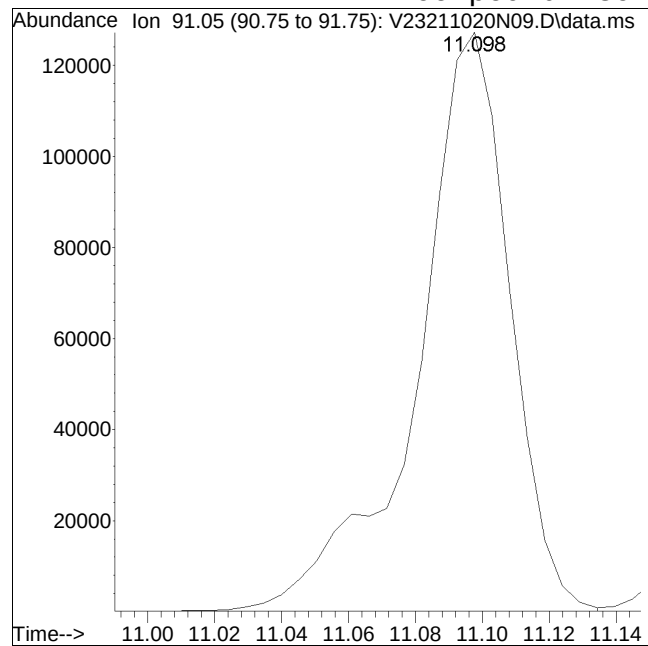
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

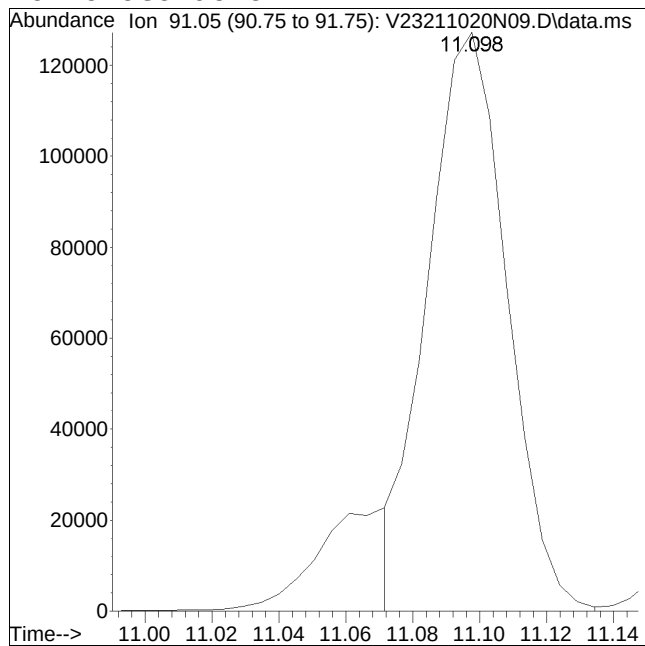
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N09.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 10:56 pm Instrument : VOA 123
Sample : I8260STD20PPB Quant Date : 10/21/2021 8:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 243722

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 210638 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N10.D
 Acq On : 20 Oct 2021 11:21 pm
 Operator : VOA123:JC
 Sample : I8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:02:12 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 07:55:58 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	244742	20.000	ug/L	-0.03
Standard Area 1 = 244742			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.236	117	195113	20.000	ug/L	-0.03
Standard Area 1 = 195113			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.000	152	116350	20.000	ug/L	-0.03
Standard Area 1 = 116350			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	67107	22.456	ug/L	-0.03
Spiked Amount 20.000	Range 70 - 130		Recovery	=	112.28%	
43) 1,2-Dichloroethane-d4	5.451	65	58845	19.027	ug/L	-0.03
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.14%	
60) Toluene-d8	7.407	98	244560	19.591	ug/L	-0.03
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.95%	
83) 4-Bromofluorobenzene	10.762	95	88961	18.163	ug/L	-0.03
Spiked Amount 20.000	Range 70 - 130		Recovery	=	90.81%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	144754	54.535	ug/L	99
3) Chloromethane	1.707	50	131343	34.133	ug/L	100
4) Vinyl chloride	1.765	62	150193	32.974	ug/L	100
5) Bromomethane	2.059	94	129292	32.573	ug/L	98
6) Chloroethane	2.174	64	109227	33.073	ug/L	98
7) Trichlorofluoromethane	2.300	101	280395	42.012	ug/L	99
8) Ethyl ether	2.578	74	67628	37.234	ug/L	92
10) 1,1-Dichloroethene	2.761	96	113751	42.115	ug/L	99
11) Carbon disulfide	2.787	76	338797	34.135	ug/L	100
12) Freon-113	2.798	101	119850	42.233	ug/L	95
14) Acrolein	3.065	56	11208	32.860	ug/L	96
15) Methylene chloride	3.286	84	138580	37.203	ug/L	93
17) Acetone	3.333	43	25098	26.318	ug/L	91
18) trans-1,2-Dichloroethene	3.432	96	131736	40.074	ug/L	97
19) Methyl acetate	3.443	43	61793	32.860	ug/L #	91
20) Methyl tert-butyl ether	3.527	73	334250	40.693	ug/L	96
21) tert-Butyl alcohol	3.605	59	50141	210.911	ug/L	92
22) Diisopropyl ether	3.878	45	389181	33.833	ug/L	94
23) 1,1-Dichloroethane	3.999	63	230746	34.373	ug/L	99
24) Halothane	4.051	117	100645	40.539	ug/L	99
25) Acrylonitrile	4.046	53	31882	32.607	ug/L #	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N10.D
 Acq On : 20 Oct 2021 11:21 pm
 Operator : VOA123:JC
 Sample : I8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:02:12 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 07:55:58 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.214	59	357678	36.872	ug/L	96
27) Vinyl acetate	4.229	43	256629	34.732	ug/L	95
28) cis-1,2-Dichloroethene	4.502	96	150186	39.917	ug/L	97
29) 2,2-Dichloropropane	4.602	77	193059	39.413	ug/L	93
30) Bromochloromethane	4.685	128	76163	45.074	ug/L	98
31) Cyclohexane	4.691	56	190489	32.379	ug/L	98
32) Chloroform	4.759	83	250754	36.400	ug/L	98
33) Ethyl acetate	4.874	43	100404	36.376	ug/L	98
34) Carbon tetrachloride	4.890	117	201803	41.665	ug/L	99
35) Tetrahydrofuran	4.911	42	35797	36.447	ug/L #	86
37) 1,1,1-Trichloroethane	4.958	97	216682	41.802	ug/L	100
39) 2-Butanone	5.052	43	42751	36.824	ug/L	88
40) 1,1-Dichloropropene	5.079	75	174622	41.422	ug/L	98
41) Benzene	5.320	78	521048	38.786	ug/L	98
42) tert-Amyl methyl ether	5.430	73	340410	44.782	ug/L	99
44) 1,2-Dichloroethane	5.519	62	171160	35.924	ug/L	100
47) Methyl cyclohexane	5.891	83	212567	38.601	ug/L	98
48) Trichloroethene	5.902	95	144783	40.195	ug/L	93
50) Dibromomethane	6.337	93	84168	41.699	ug/L	99
51) 1,2-Dichloropropane	6.442	63	132251	34.824	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	68968	35.874	ug/L	95
54) Bromodichloromethane	6.510	83	195909	39.961	ug/L	99
57) 1,4-Dioxane	6.730	88	54790	2432.300	ug/L	99
58) cis-1,3-Dichloropropene	7.202	75	214316	41.818	ug/L #	92
61) Toluene	7.464	92	334201	33.629	ug/L	98
62) 4-Methyl-2-pentanone	7.905	58	37240	35.855	ug/L	77
63) Tetrachloroethene	7.905	166	155498	40.931	ug/L	99
65) trans-1,3-Dichloropropene	7.941	75	190888	37.695	ug/L	93
67) Ethyl methacrylate	8.146	69	146725	38.429	ug/L	91
68) 1,1,2-Trichloroethane	8.125	83	96443	37.520	ug/L	99
69) Chlorodibromomethane	8.329	129	154475	42.992	ug/L	97
70) 1,3-Dichloropropane	8.445	76	190439	37.345	ug/L	99
71) 1,2-Dibromoethane	8.602	107	119898	43.724	ug/L	98
72) 2-Hexanone	8.906	43	66994	38.432	ug/L #	89
73) Chlorobenzene	9.257	112	399244	37.814	ug/L #	84
74) Ethylbenzene	9.299	91	663818	37.407	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.341	131	158906	41.528	ug/L	98
76) p/m Xylene	9.488	106	535148	80.689	ug/L	96
77) o Xylene	10.033	106	519931	83.494	ug/L	97
78) Styrene	10.107	104	917056	85.156	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N10.D
 Acq On : 20 Oct 2021 11:21 pm
 Operator : VOA123:JC
 Sample : I8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:02:12 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 07:55:58 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	96157	38.056	ug/L	99
82)	Isopropylbenzene	10.437	105	697548	36.513	ug/L	98
84)	Bromobenzene	10.878	156	185008	39.102	ug/L	99
85)	n-Propylbenzene	10.930	91	822366	34.875	ug/L	97
86)	1,4-Dichlorobutane	10.946	55	182266	26.774	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.019	83	143593	34.941	ug/L	99
88)	4-Ethyltoluene	11.061	105	688727	36.247	ug/L	98
89)	2-Chlorotoluene	11.098	91	476402M6	33.069	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	605285	36.752	ug/L	99
91)	1,2,3-Trichloropropane	11.155	75	112682	34.468	ug/L	93
92)	trans-1,4-Dichloro-2-b...	11.218	53	39511	28.470	ug/L	83
93)	4-Chlorotoluene	11.287	91	501251	34.664	ug/L	92
94)	tert-Butylbenzene	11.512	119	530899	38.117	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	610883	38.005	ug/L	98
98)	sec-Butylbenzene	11.706	105	801572	37.136	ug/L	97
99)	p-Isopropyltoluene	11.868	119	697905	39.217	ug/L	99
100)	1,3-Dichlorobenzene	11.921	146	377095	38.088	ug/L	99
101)	1,4-Dichlorobenzene	12.015	146	376755	37.358	ug/L	98
102)	p-Diethylbenzene	12.246	119	415449	38.926	ug/L	97
103)	n-Butylbenzene	12.304	91	623220	36.383	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	353729	39.228	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	657399	40.871	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	25826	42.778	ug/L	99
107)	1,3,5-Trichlorobenzene	13.263	180	263418	38.849	ug/L	100
108)	Hexachlorobutadiene	13.850	225	127869	36.913	ug/L	100
109)	1,2,4-Trichlorobenzene	13.866	180	243273	40.989	ug/L	98
110)	Naphthalene	14.165	128	523888	41.516	ug/L	100
111)	1,2,3-Trichlorobenzene	14.328	180	223683	41.844	ug/L	99

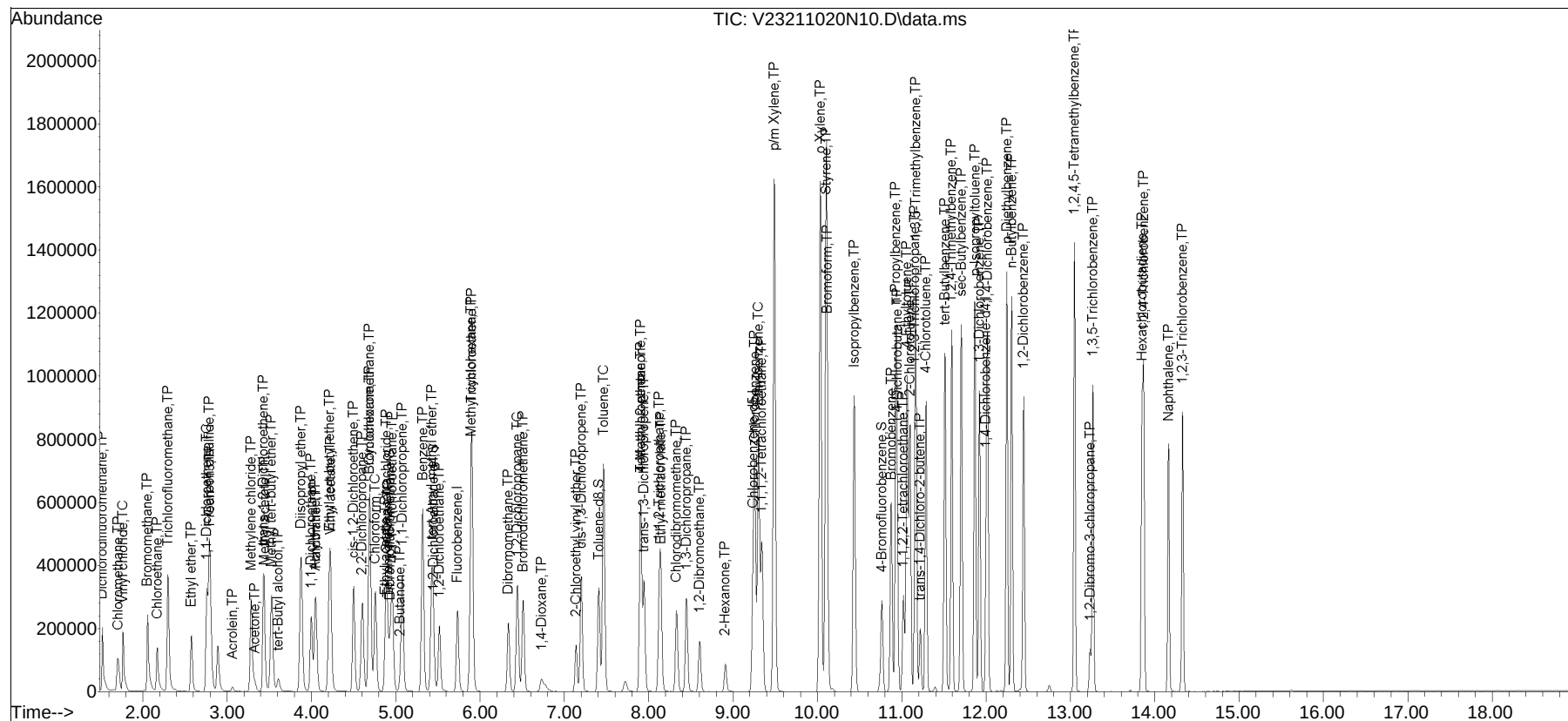
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N10.D
 Acq On : 20 Oct 2021 11:21 pm
 Operator : VOA123:JC
 Sample : I8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 08:02:12 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 07:55:58 2021
 Response via : Initial Calibration

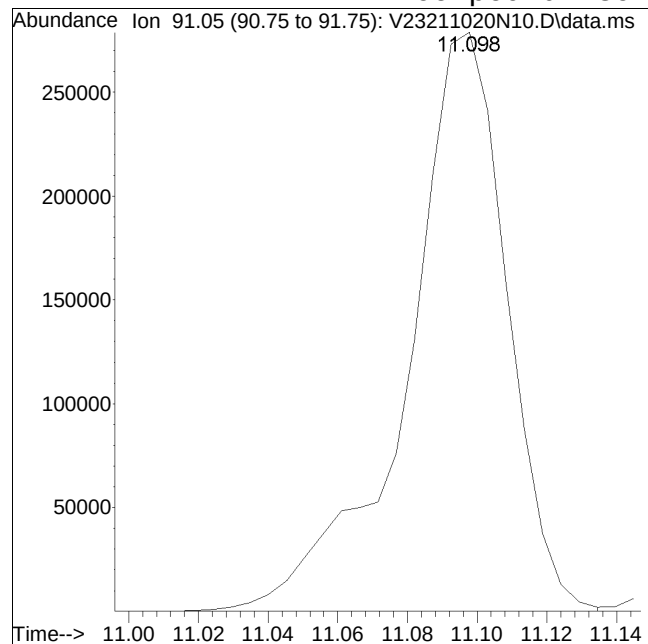
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

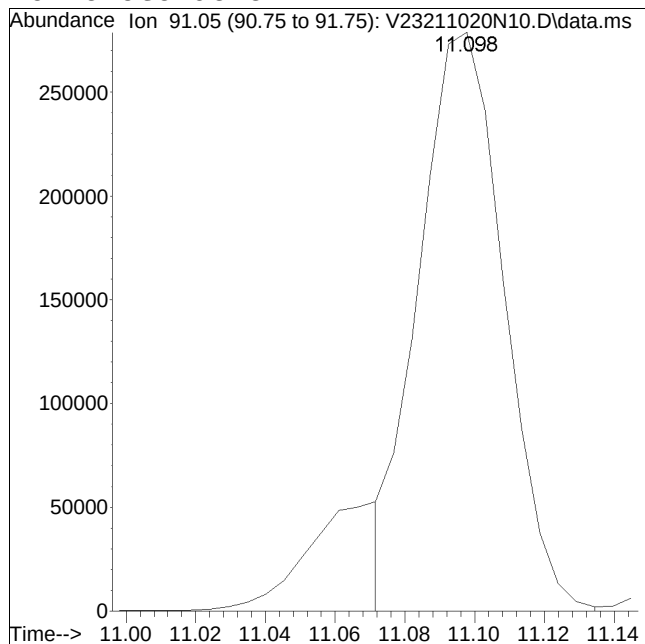
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N10.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 11:21 pm Instrument : VOA 123
Sample : I8260STD40PPB Quant Date : 10/21/2021 8:00 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 552268

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 476402 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N11.D
 Acq On : 20 Oct 2021 11:46 pm
 Operator : VOA123:JC
 Sample : I8260STD100PPB
 Misc : WG1561383,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:27:24 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	263909	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	107.83%	
59) Chlorobenzene-d5	9.237	117	213718	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	109.54%	
79) 1,4-Dichlorobenzene-d4	12.000	152	127672	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	109.73%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	71589	19.786	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.93%	
43) 1,2-Dichloroethane-d4	5.451	65	62829	19.803	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.02%	
60) Toluene-d8	7.407	98	260793	19.471	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	97.36%	
83) 4-Bromofluorobenzene	10.762	95	96029	19.674	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.37%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	363096	93.048	ug/L	99
3) Chloromethane	1.702	50	326596	92.240	ug/L	100
4) Vinyl chloride	1.765	62	374291	92.443	ug/L	100
5) Bromomethane	2.059	94	332259	95.328	ug/L	99
6) Chloroethane	2.169	64	299096	101.577	ug/L	99
7) Trichlorofluoromethane	2.300	101	739604	97.846	ug/L	99
8) Ethyl ether	2.578	74	171082	93.841	ug/L	93
10) 1,1-Dichloroethene	2.761	96	295747	96.445	ug/L	99
11) Carbon disulfide	2.788	76	877801	96.110	ug/L	100
12) Freon-113	2.798	101	309806	95.888	ug/L	97
14) Acrolein	3.065	56	29518M1	97.695	ug/L	
15) Methylene chloride	3.286	84	345202	92.403	ug/L	94
17) Acetone	3.328	43	59930	88.577	ug/L	90
18) trans-1,2-Dichloroethene	3.432	96	341621	96.195	ug/L	97
19) Methyl acetate	3.443	43	156202	93.770	ug/L #	91
20) Methyl tert-butyl ether	3.527	73	855447	94.937	ug/L	97
21) tert-Butyl alcohol	3.605	59	124572	460.799	ug/L	92
22) Diisopropyl ether	3.878	45	1009762	96.246	ug/L	95
23) 1,1-Dichloroethane	3.999	63	595006	95.654	ug/L	99
24) Halothane	4.051	117	266166	98.101	ug/L	100
25) Acrylonitrile	4.041	53	79224	92.178	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N11.D
 Acq On : 20 Oct 2021 11:46 pm
 Operator : VOA123:JC
 Sample : I8260STD100PPB
 Misc : WG1561383,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:27:24 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.214	59	938609	97.343	ug/L	95
27) Vinyl acetate	4.229	43	656037	94.828	ug/L	95
28) cis-1,2-Dichloroethene	4.502	96	392064	96.837	ug/L	97
29) 2,2-Dichloropropane	4.602	77	507063	97.429	ug/L	94
30) Bromochloromethane	4.691	128	194487	94.724	ug/L	97
31) Cyclohexane	4.691	56	499264	97.224	ug/L	98
32) Chloroform	4.759	83	642237	95.008	ug/L	97
33) Ethyl acetate	4.874	43	250706	92.625	ug/L	98
34) Carbon tetrachloride	4.890	117	538208	98.932	ug/L	99
35) Tetrahydrofuran	4.906	42	86839	89.988	ug/L	90
37) 1,1,1-Trichloroethane	4.958	97	572527	98.014	ug/L	99
39) 2-Butanone	5.053	43	107906	93.630	ug/L	88
40) 1,1-Dichloropropene	5.079	75	455092	96.675	ug/L	97
41) Benzene	5.320	78	1343540	95.650	ug/L	98
42) tert-Amyl methyl ether	5.430	73	884368	96.371	ug/L	99
44) 1,2-Dichloroethane	5.519	62	427900	92.737	ug/L	99
47) Methyl cyclohexane	5.897	83	563262	98.294	ug/L	99
48) Trichloroethene	5.902	95	378755	97.041	ug/L	93
50) Dibromomethane	6.337	93	216927	95.605	ug/L	99
51) 1,2-Dichloropropane	6.442	63	340540	95.518	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	176618	94.995	ug/L	94
54) Bromodichloromethane	6.510	83	509062	96.390	ug/L	99
57) 1,4-Dioxane	6.730	88	138709	4695.563	ug/L	96
58) cis-1,3-Dichloropropene	7.197	75	570365	98.722	ug/L	93
61) Toluene	7.464	92	887069	96.929	ug/L	99
62) 4-Methyl-2-pentanone	7.905	58	95700	93.844	ug/L	77
63) Tetrachloroethene	7.905	166	414583	97.363	ug/L	98
65) trans-1,3-Dichloropropene	7.947	75	508605	97.299	ug/L	94
67) Ethyl methacrylate	8.146	69	388842	96.777	ug/L	91
68) 1,1,2-Trichloroethane	8.125	83	247114	93.569	ug/L	99
69) Chlorodibromomethane	8.329	129	414008	97.871	ug/L	98
70) 1,3-Dichloropropane	8.450	76	490304	94.019	ug/L	100
71) 1,2-Dibromoethane	8.602	107	306883	93.469	ug/L	100
72) 2-Hexanone	8.906	43	171893	93.697	ug/L	89
73) Chlorobenzene	9.258	112	1059731	96.931	ug/L #	83
74) Ethylbenzene	9.299	91	1755590	96.578	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.341	131	428035	98.366	ug/L	98
76) p/m Xylene	9.488	106	1426900	194.740	ug/L	96
77) o Xylene	10.034	106	1398405	196.437	ug/L	96
78) Styrene	10.107	104	2498997	199.024	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N11.D
 Acq On : 20 Oct 2021 11:46 pm
 Operator : VOA123:JC
 Sample : I8260STD100PPB
 Misc : WG1561383,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:27:24 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	273367	103.632	ug/L	100
82)	Isopropylbenzene	10.437	105	1854174	96.896	ug/L	97
84)	Bromobenzene	10.872	156	485310	95.622	ug/L	100
85)	n-Propylbenzene	10.930	91	2178200	96.552	ug/L	96
86)	1,4-Dichlorobutane	10.946	55	477280	95.455	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.019	83	373942	94.930	ug/L	99
88)	4-Ethyltoluene	11.061	105	1847337	97.775	ug/L	98
89)	2-Chlorotoluene	11.098	91	1271092M6	97.260	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	1622373	97.706	ug/L	98
91)	1,2,3-Trichloropropane	11.161	75	295226	95.506	ug/L	92
92)	trans-1,4-Dichloro-2-b...	11.218	53	101996	94.101	ug/L	90
93)	4-Chlorotoluene	11.287	91	1315277	95.652	ug/L	92
94)	tert-Butylbenzene	11.512	119	1418630	97.407	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	1637077	97.688	ug/L	97
98)	sec-Butylbenzene	11.706	105	2139534	97.299	ug/L	96
99)	p-Isopropyltoluene	11.863	119	1897306	99.100	ug/L	98
100)	1,3-Dichlorobenzene	11.921	146	1012889	97.913	ug/L	98
101)	1,4-Dichlorobenzene	12.015	146	1000792	96.831	ug/L	98
102)	p-Diethylbenzene	12.246	119	1128851	99.049	ug/L	97
103)	n-Butylbenzene	12.304	91	1634207	95.586	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	944433	97.327	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	1784698	98.962	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	68256	96.342	ug/L	99
107)	1,3,5-Trichlorobenzene	13.263	180	702937	97.275	ug/L	99
108)	Hexachlorobutadiene	13.850	225	339627	96.821	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	635043	95.157	ug/L	99
110)	Naphthalene	14.160	128	1388082	96.584	ug/L	100
111)	1,2,3-Trichlorobenzene	14.328	180	582001	94.847	ug/L	99

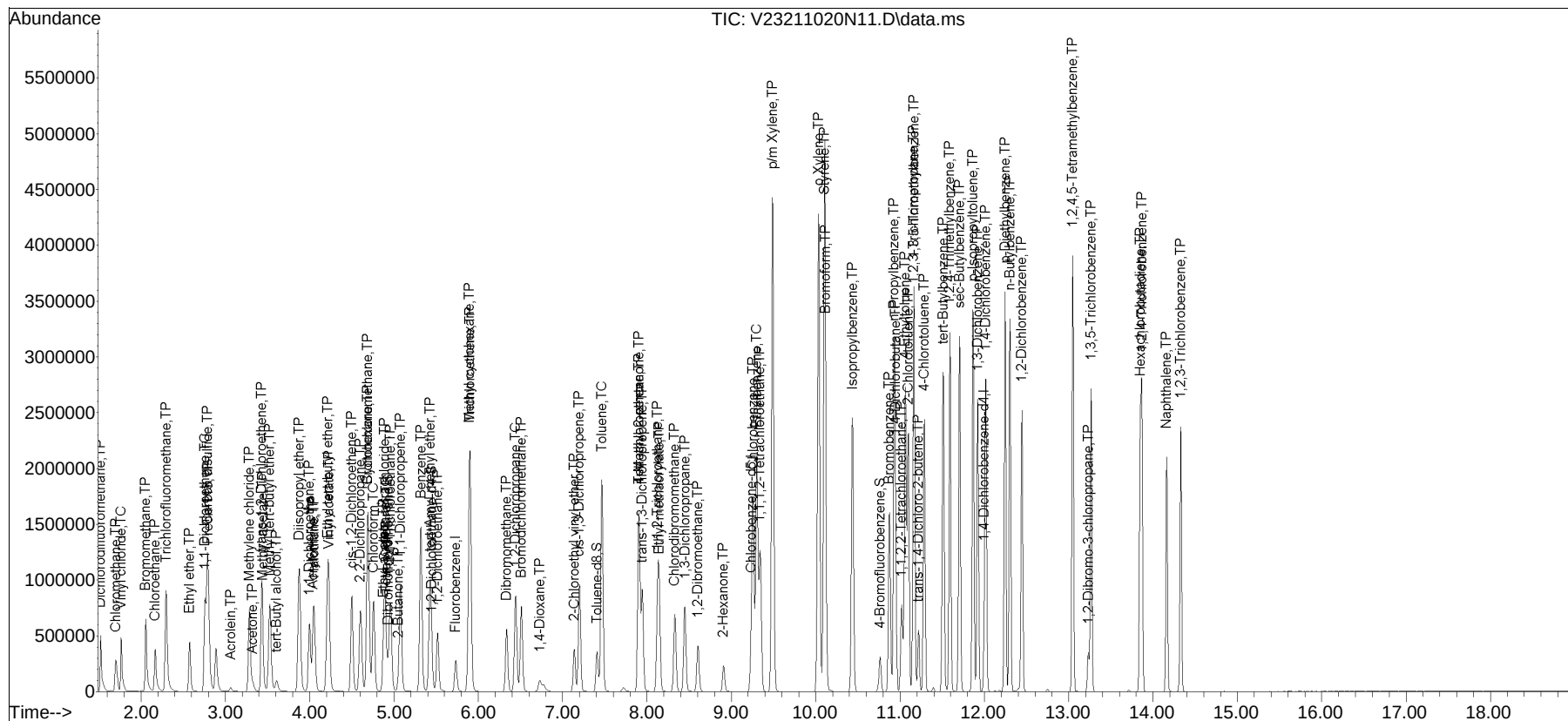
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N11.D
Acq On : 20 Oct 2021 11:46 pm
Operator : VOA123:JC
Sample : I8260STD100PPB
Misc : WG1561383,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 08:27:24 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:03:12 2021
Response via : Initial Calibration

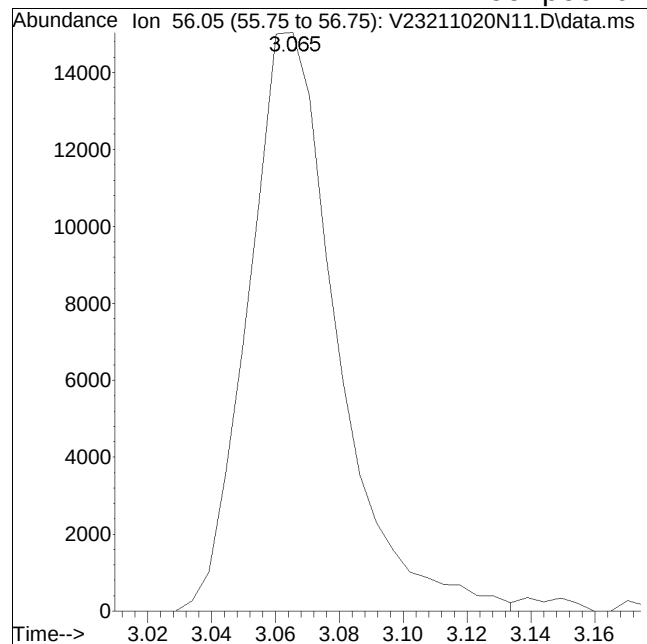
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

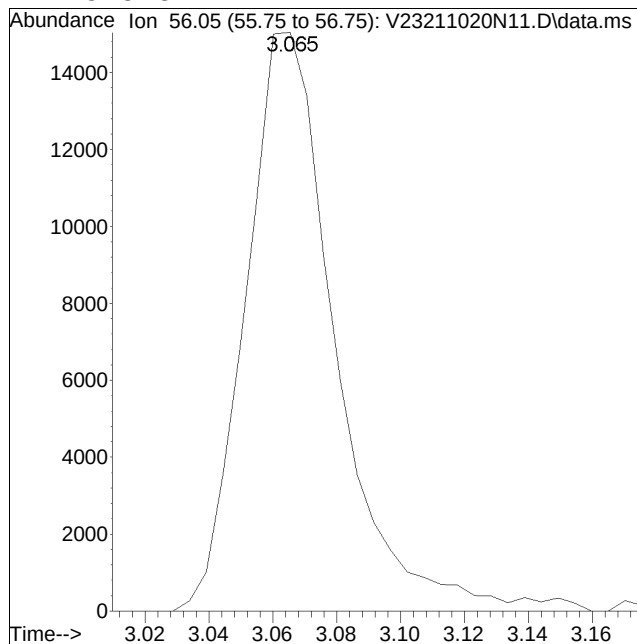
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N11.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 11:46 pm Instrument : VOA 123
Sample : I8260STD100PPB Quant Date : 10/21/2021 8:04 am

Compound #14: Acrolein



Original Peak Response = 29159

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

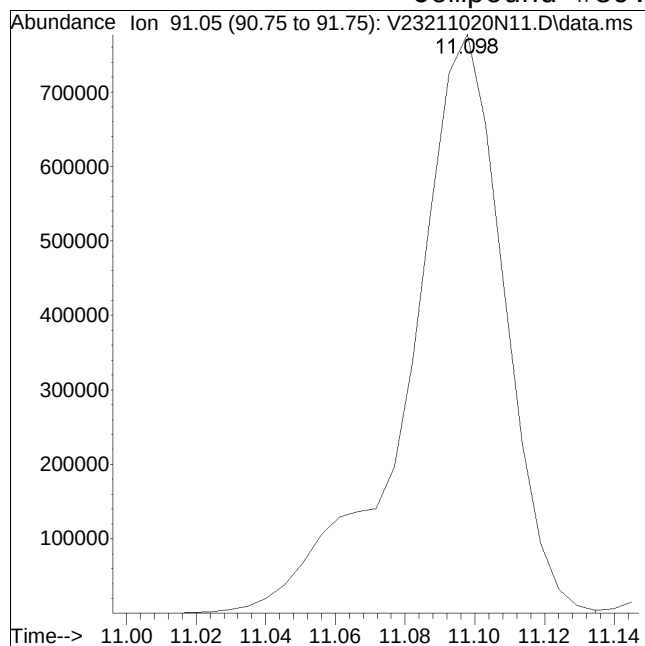


Manual Peak Response = 29518 M1

Manual Integration Report

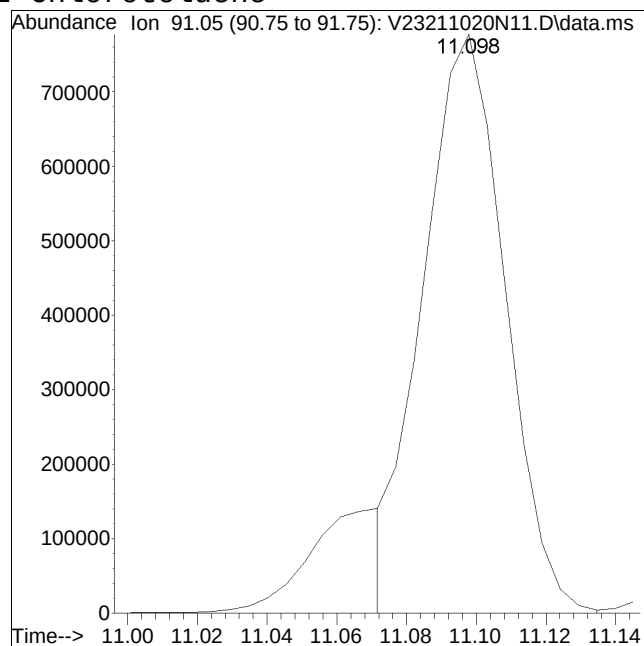
Data Path : I:\VOLATILES\VOA123\2021\20Method : V123_211020N_8260.m
Data File : V23211020N11.D Operator : VOA123:JC
Date Inj'd : 10/20/2021 11:46 pm Instrument : VOA 123
Sample : I8260STD100PPB Quant Date : 10/21/2021 8:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1475025

M6 = Misassignment of peak valley by



Manual Peak Response = 1271092 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N12.D
 Acq On : 21 Oct 2021 12:11 am
 Operator : VOA123:JC
 Sample : I8260STD200PPB
 Misc : WG1561383,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:28:20 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.729	96	280231	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	114.50%	
59) Chlorobenzene-d5	9.237	117	233802	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	119.83%	
79) 1,4-Dichlorobenzene-d4	12.005	152	138632	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	119.15%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.927	113	75500	19.652	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.26%	
43) 1,2-Dichloroethane-d4	5.446	65	67024	19.895	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.48%	
60) Toluene-d8	7.407	98	280070	19.114	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.57%	
83) 4-Bromofluorobenzene	10.762	95	101677	19.185	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.92%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.519	85	789364	190.502	ug/L	99
3) Chloromethane	1.702	50	713278	189.716	ug/L	100
4) Vinyl chloride	1.765	62	794549	184.809	ug/L	100
5) Bromomethane	2.053	94	738205	199.461	ug/L	100
6) Chloroethane	2.158	64	682584	218.312	ug/L	99
7) Trichlorofluoromethane	2.295	101	1688876	210.417	ug/L	99
8) Ethyl ether	2.573	74	377144	194.820	ug/L	93
10) 1,1-Dichloroethene	2.756	96	653426	200.675	ug/L	100
11) Carbon disulfide	2.782	76	1932394	199.255	ug/L	100
12) Freon-113	2.793	101	682862	199.043	ug/L	96
14) Acrolein	3.060	56	64544	201.178	ug/L	99
15) Methylene chloride	3.280	84	755276	190.396	ug/L	94
17) Acetone	3.328	43	116400	162.019	ug/L	95
18) trans-1,2-Dichloroethene	3.432	96	760794	201.751	ug/L	97
19) Methyl acetate	3.438	43	343809	194.370	ug/L #	91
20) Methyl tert-butyl ether	3.527	73	1870234	195.469	ug/L	97
21) tert-Butyl alcohol	3.605	59	271263	944.974	ug/L	93
22) Diisopropyl ether	3.873	45	2219682	199.247	ug/L	95
23) 1,1-Dichloroethane	3.993	63	1292978	195.753	ug/L	99
24) Halothane	4.046	117	586599	203.611	ug/L	99
25) Acrylonitrile	4.041	53	171314	187.715	ug/L #	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N12.D
 Acq On : 21 Oct 2021 12:11 am
 Operator : VOA123:JC
 Sample : I8260STD200PPB
 Misc : WG1561383,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:28:20 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.214	59	2068560	202.036	ug/L	93
27) Vinyl acetate	4.229	43	1402018	190.854	ug/L	96
28) cis-1,2-Dichloroethene	4.497	96	855751	199.054	ug/L	97
29) 2,2-Dichloropropane	4.602	77	1117337	202.184	ug/L	95
30) Bromochloromethane	4.686	128	429547	197.024	ug/L	96
31) Cyclohexane	4.691	56	1103715	202.413	ug/L	98
32) Chloroform	4.754	83	1395383	194.401	ug/L	97
33) Ethyl acetate	4.874	43	542795	188.859	ug/L	98
34) Carbon tetrachloride	4.890	117	1203807	208.392	ug/L	99
35) Tetrahydrofuran	4.906	42	188211	183.675	ug/L	90
37) 1,1,1-Trichloroethane	4.953	97	1250806	201.660	ug/L	99
39) 2-Butanone	5.053	43	228888	187.038	ug/L #	85
40) 1,1-Dichloropropene	5.074	75	988705	197.797	ug/L	97
41) Benzene	5.315	78	2914556	195.410	ug/L	98
42) tert-Amyl methyl ether	5.430	73	1949852	200.102	ug/L	99
44) 1,2-Dichloroethane	5.514	62	930195	189.856	ug/L	100
47) Methyl cyclohexane	5.891	83	1257816	206.716	ug/L	100
48) Trichloroethene	5.902	95	855422	206.403	ug/L	94
50) Dibromomethane	6.332	93	475702	197.442	ug/L	100
51) 1,2-Dichloropropane	6.442	63	739669	195.385	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	387048	196.051	ug/L	95
54) Bromodichloromethane	6.510	83	1125259	200.655	ug/L #	99
57) 1,4-Dioxane	6.730	88	293968	9371.758	ug/L	97
58) cis-1,3-Dichloropropene	7.197	75	1256698	204.847	ug/L	93
61) Toluene	7.464	92	1960532	195.823	ug/L	100
62) 4-Methyl-2-pentanone	7.905	58	214167	191.973	ug/L	78
63) Tetrachloroethene	7.905	166	924968	198.564	ug/L	98
65) trans-1,3-Dichloropropene	7.941	75	1131852	197.929	ug/L	94
67) Ethyl methacrylate	8.146	69	860744	195.825	ug/L	91
68) 1,1,2-Trichloroethane	8.125	83	542819	187.881	ug/L	98
69) Chlorodibromomethane	8.329	129	926930	200.303	ug/L	98
70) 1,3-Dichloropropane	8.450	76	1065678	186.796	ug/L	100
71) 1,2-Dibromoethane	8.602	107	676295	188.288	ug/L	99
72) 2-Hexanone	8.906	43	379717	189.200	ug/L	89
73) Chlorobenzene	9.258	112	2363827	197.640	ug/L #	83
74) Ethylbenzene	9.305	91	3907383	196.488	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.341	131	964283	202.564	ug/L	98
76) p/m Xylene	9.493	106	3274952	408.563	ug/L	93
77) o Xylene	10.039	106	3192635	409.951	ug/L	93
78) Styrene	10.107	104	5637854	410.436	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N12.D
 Acq On : 21 Oct 2021 12:11 am
 Operator : VOA123:JC
 Sample : I8260STD200PPB
 Misc : WG1561383,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:28:20 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	644796	225.115	ug/L	100
82)	Isopropylbenzene	10.437	105	4121285	198.345	ug/L	97
84)	Bromobenzene	10.878	156	1090880	197.947	ug/L	100
85)	n-Propylbenzene	10.935	91	4813477	196.497	ug/L	95
86)	1,4-Dichlorobutane	10.946	55	1065464	196.244	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.019	83	802880	187.707	ug/L	99
88)	4-Ethyltoluene	11.066	105	4065571	198.170	ug/L	97
89)	2-Chlorotoluene	11.098	91	2808436M6	197.904	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	3600479	199.693	ug/L	98
91)	1,2,3-Trichloropropane	11.161	75	657088	195.764	ug/L	93
92)	trans-1,4-Dichloro-2-b...	11.218	53	223562	189.952	ug/L	92
93)	4-Chlorotoluene	11.287	91	2915364	195.254	ug/L	92
94)	tert-Butylbenzene	11.512	119	3155336	199.525	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	3588556	197.208	ug/L	96
98)	sec-Butylbenzene	11.706	105	4630215	193.920	ug/L	95
99)	p-Isopropyltoluene	11.869	119	4156102	199.918	ug/L	98
100)	1,3-Dichlorobenzene	11.921	146	2226600	198.223	ug/L	99
101)	1,4-Dichlorobenzene	12.015	146	2222906	198.073	ug/L	98
102)	p-Diethylbenzene	12.246	119	2488162	201.059	ug/L	97
103)	n-Butylbenzene	12.304	91	3530934	190.200	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	2102594	199.548	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	4014846	205.023	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.232	155	150990	196.270	ug/L	100
107)	1,3,5-Trichlorobenzene	13.269	180	1563431	199.249	ug/L	99
108)	Hexachlorobutadiene	13.850	225	759747	199.465	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	1420091	195.968	ug/L	99
110)	Naphthalene	14.165	128	2963964	189.932	ug/L	100
111)	1,2,3-Trichlorobenzene	14.328	180	1283835	192.681	ug/L	99

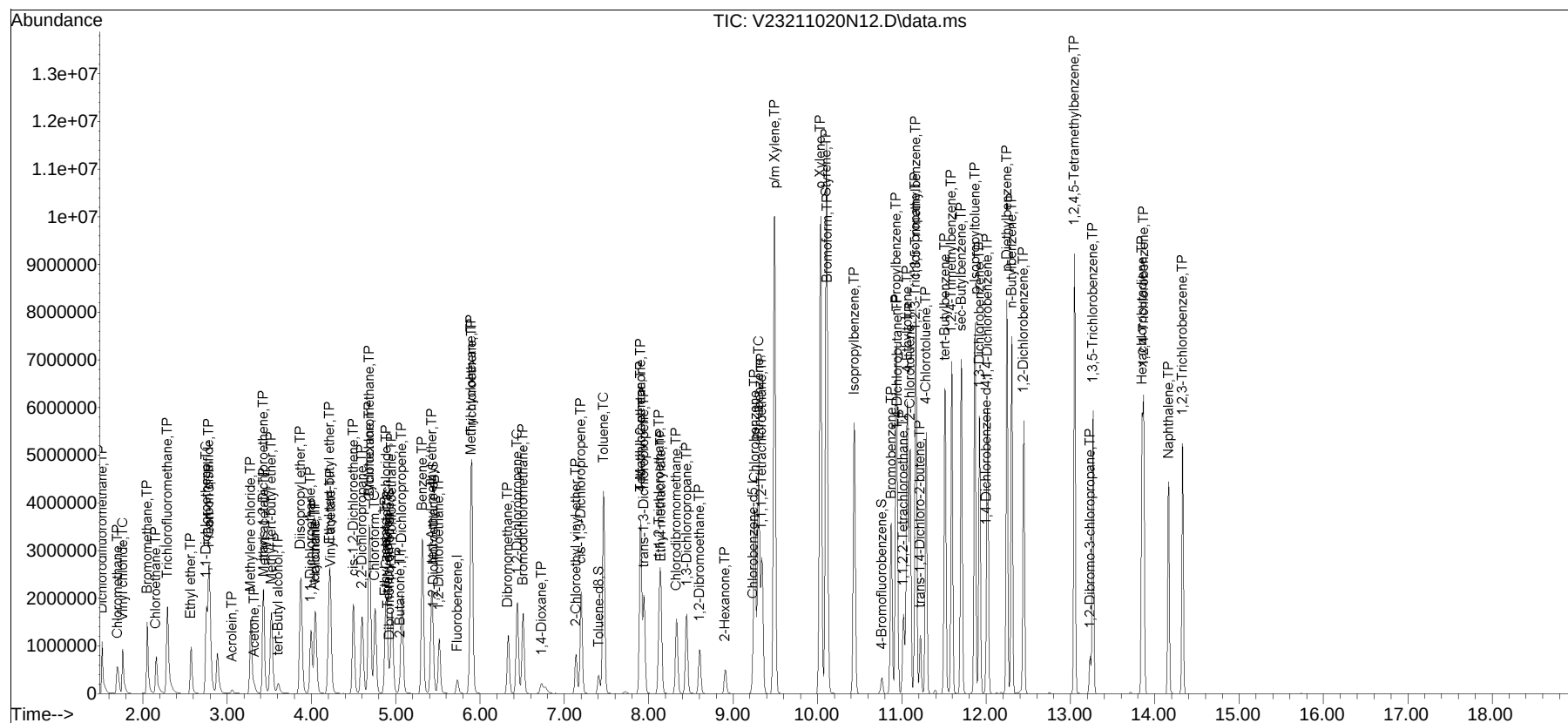
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N12.D
 Acq On : 21 Oct 2021 12:11 am
 Operator : VOA123:JC
 Sample : I8260STD200PPB
 Misc : WG1561383,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 08:28:20 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

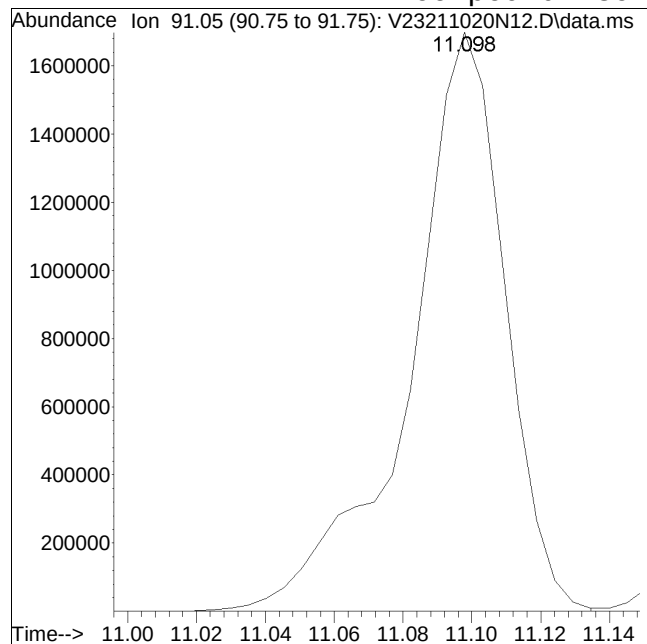
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

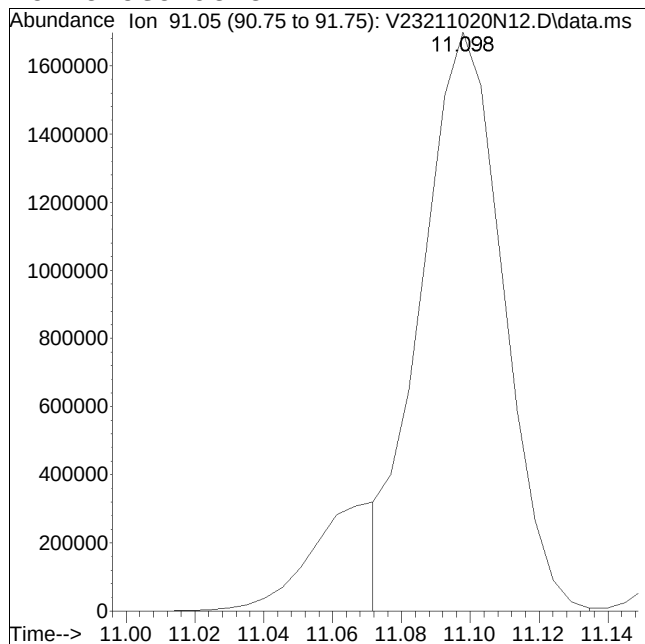
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N12.D Operator : VOA123:JC
Date Inj'd : 10/21/2021 12:11 am Instrument : VOA 123
Sample : I8260STD200PPB Quant Date : 10/21/2021 8:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3239204

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2808436 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N13.D
 Acq On : 21 Oct 2021 12:36 am
 Operator : VOA123:JC
 Sample : I8260STD300PPB
 Misc : WG1561383,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:30:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	296773	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	121.26%	
59) Chlorobenzene-d5	9.236	117	254315	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	130.34%	
79) 1,4-Dichlorobenzene-d4	12.005	152	147636	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	126.89%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	80787	19.856	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	99.28%	
43) 1,2-Dichloroethane-d4	5.451	65	72963	20.451	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	102.26%	
60) Toluene-d8	7.407	98	300460	18.851	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	94.25%	
83) 4-Bromofluorobenzene	10.762	95	108278	19.184	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	95.92%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	1269973	289.406	ug/L	99
3) Chloromethane	1.702	50	1143024	287.073	ug/L	100
4) Vinyl chloride	1.765	62	1262511	277.287	ug/L	100
5) Bromomethane	2.059	94	1182605	301.726	ug/L	99
6) Chloroethane	2.158	64	1007862	304.379	ug/L	98
7) Trichlorofluoromethane	2.295	101	2759281	324.616	ug/L	99
8) Ethyl ether	2.578	74	597346	291.369	ug/L	92
10) 1,1-Dichloroethene	2.761	96	1053123	305.399	ug/L	99
11) Carbon disulfide	2.782	76	3089808	300.840	ug/L	100
12) Freon-113	2.798	101	1096140	301.698	ug/L	95
14) Acrolein	3.065	56	101738	299.433	ug/L	98
15) Methylene chloride	3.286	84	1185867	282.280	ug/L	94
17) Acetone	3.328	43	200858	263.994	ug/L	90
18) trans-1,2-Dichloroethene	3.432	96	1208001	302.487	ug/L	96
19) Methyl acetate	3.443	43	542831	289.781	ug/L #	91
20) Methyl tert-butyl ether	3.527	73	2961803	292.300	ug/L	97
21) tert-Butyl alcohol	3.611	59	430175	1415.032	ug/L	94
22) Diisopropyl ether	3.878	45	3514350	297.877	ug/L	95
23) 1,1-Dichloroethane	3.999	63	2047890	292.763	ug/L	99
24) Halothane	4.051	117	935569	306.639	ug/L	99
25) Acrylonitrile	4.046	53	272300	281.738	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N13.D
 Acq On : 21 Oct 2021 12:36 am
 Operator : VOA123:JC
 Sample : I8260STD300PPB
 Misc : WG1561383,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:30:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.219	59	3314155	305.650	ug/L	93
27) Vinyl acetate	4.229	43	2214315	284.628	ug/L	96
28) cis-1,2-Dichloroethene	4.502	96	1359584	298.621	ug/L	97
29) 2,2-Dichloropropane	4.602	77	1776637	303.566	ug/L	95
30) Bromochloromethane	4.691	128	683067	295.844	ug/L	95
31) Cyclohexane	4.691	56	1761084	304.968	ug/L	98
32) Chloroform	4.759	83	2203066	289.817	ug/L	97
33) Ethyl acetate	4.874	43	853020	280.254	ug/L	98
34) Carbon tetrachloride	4.890	117	1909224	312.085	ug/L	99
35) Tetrahydrofuran	4.906	42	293281	270.260	ug/L	90
37) 1,1,1-Trichloroethane	4.958	97	1974812	300.640	ug/L	99
39) 2-Butanone	5.052	43	362629	279.808	ug/L	89
40) 1,1-Dichloropropene	5.079	75	1563690	295.390	ug/L	97
41) Benzene	5.320	78	4593681	290.822	ug/L	98
42) tert-Amyl methyl ether	5.430	73	3084194	298.871	ug/L	99
44) 1,2-Dichloroethane	5.519	62	1469594	283.230	ug/L	100
47) Methyl cyclohexane	5.897	83	2026544	314.488	ug/L	99
48) Trichloroethene	5.902	95	1379583	314.322	ug/L	94
50) Dibromomethane	6.337	93	754241	295.602	ug/L	99
51) 1,2-Dichloropropane	6.442	63	1173525	292.710	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	612955	293.174	ug/L	94
54) Bromodichloromethane	6.510	83	1785971	300.721	ug/L	99
57) 1,4-Dioxane	6.730	88	465293	14006.813	ug/L	98
58) cis-1,3-Dichloropropene	7.202	75	1994689	307.019	ug/L	93
61) Toluene	7.464	92	3121828	286.666	ug/L	99
62) 4-Methyl-2-pentanone	7.905	58	343503	283.071	ug/L	79
63) Tetrachloroethene	7.905	166	1486678	293.404	ug/L	98
65) trans-1,3-Dichloropropene	7.947	75	1800874	289.520	ug/L	94
67) Ethyl methacrylate	8.146	69	1383463	289.359	ug/L	91
68) 1,1,2-Trichloroethane	8.130	83	863137	274.652	ug/L	98
69) Chlorodibromomethane	8.335	129	1496191	297.237	ug/L	98
70) 1,3-Dichloropropane	8.450	76	1682243	271.086	ug/L	100
71) 1,2-Dibromoethane	8.602	107	1072330	274.467	ug/L	100
72) 2-Hexanone	8.906	43	598951	274.366	ug/L	89
73) Chlorobenzene	9.257	112	3791269	291.421	ug/L #	84
74) Ethylbenzene	9.305	91	6137532	283.739	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.347	131	1551915	299.710	ug/L	98
76) p/m Xylene	9.493	106	5290171	606.736	ug/L	89
77) o Xylene	10.039	106	5184788	612.054	ug/L	89
78) Styrene	10.112	104	8950821	599.061	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N13.D
 Acq On : 21 Oct 2021 12:36 am
 Operator : VOA123:JC
 Sample : I8260STD300PPB
 Misc : WG1561383,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:30:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:03:12 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	1085195	355.763	ug/L	100
82)	Isopropylbenzene	10.437	105	6432982	290.718	ug/L	96
84)	Bromobenzene	10.878	156	1753709	298.814	ug/L	100
85)	n-Propylbenzene	10.935	91	7459100	285.927	ug/L	93
86)	1,4-Dichlorobutane	10.946	55	1716630	296.897	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.019	83	1270948	279.016	ug/L	99
88)	4-Ethyltoluene	11.066	105	6349252	290.609	ug/L	95
89)	2-Chlorotoluene	11.098	91	4498019M6	297.634	ug/L	
90)	1,3,5-Trimethylbenzene	11.171	105	5704423	297.089	ug/L	97
91)	1,2,3-Trichloropropane	11.161	75	1064373	297.765	ug/L	92
92)	trans-1,4-Dichloro-2-b...	11.218	53	354409	282.762	ug/L	92
93)	4-Chlorotoluene	11.292	91	4562574	286.938	ug/L	91
94)	tert-Butylbenzene	11.512	119	4986454	296.083	ug/L	97
97)	1,2,4-Trimethylbenzene	11.596	105	5610713	289.530	ug/L	95
98)	sec-Butylbenzene	11.706	105	7140198	280.803	ug/L	94
99)	p-Isopropyltoluene	11.869	119	6432712	290.557	ug/L	97
100)	1,3-Dichlorobenzene	11.926	146	3503078	292.842	ug/L	98
101)	1,4-Dichlorobenzene	12.021	146	3511685	293.826	ug/L	98
102)	p-Diethylbenzene	12.246	119	3941335	299.061	ug/L	97
103)	n-Butylbenzene	12.304	91	5466695	276.514	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	3309686	294.951	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.048	119	6248741	299.638	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.232	155	237532	289.934	ug/L	99
107)	1,3,5-Trichlorobenzene	13.268	180	2455158	293.811	ug/L	99
108)	Hexachlorobutadiene	13.850	225	1257405	309.987	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	2270421	294.203	ug/L	98
110)	Naphthalene	14.165	128	4601422	276.878	ug/L	100
111)	1,2,3-Trichlorobenzene	14.328	180	1999573	281.798	ug/L	98

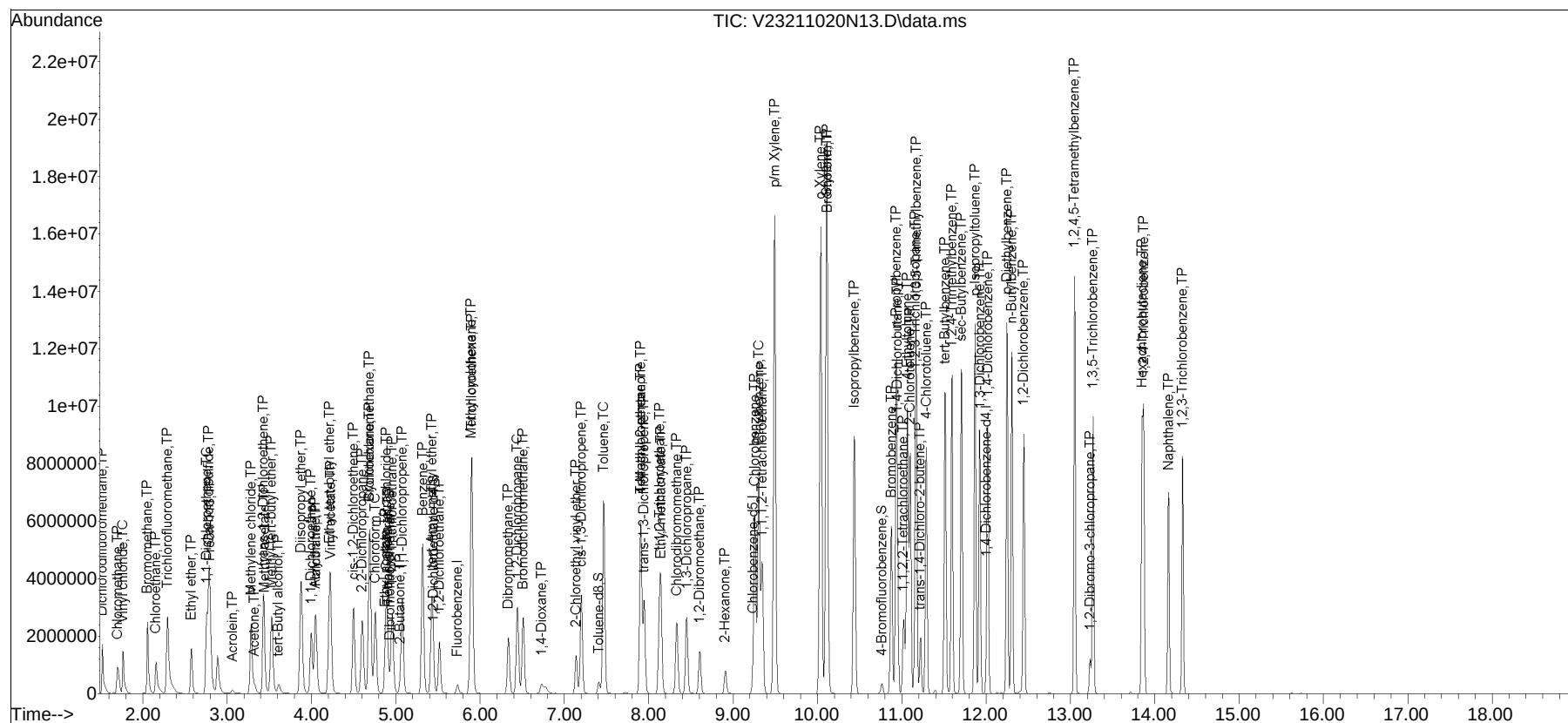
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N13.D
Acq On : 21 Oct 2021 12:36 am
Operator : VOA123:JC
Sample : I8260STD300PPB
Misc : WG1561383,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 08:30:42 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:03:12 2021
Response via : Initial Calibration

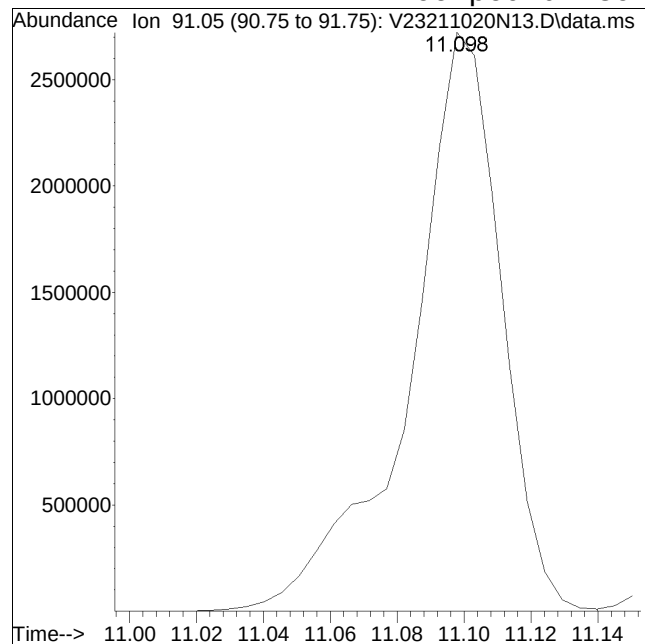
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

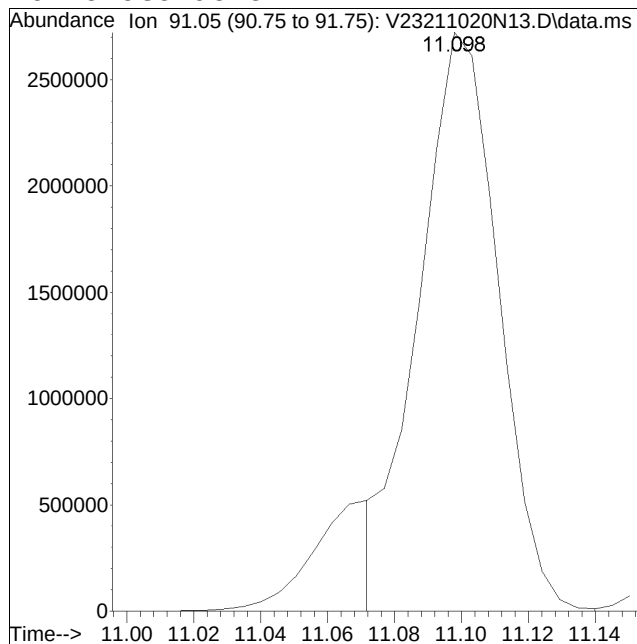
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N13.D Operator : VOA123:JC
Date Inj'd : 10/21/2021 12:36 am Instrument : VOA 123
Sample : I8260STD300PPB Quant Date : 10/21/2021 8:04 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 5138660

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 4498019 M6

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	105	0.00
2 TP	Dichlorodifluoromethane	0.277	0.255	7.9	90	0.00
3 TP	Chloromethane	0.264	0.278	-5.3	109	0.00
4 TC	Vinyl chloride	0.288	0.299	-3.8	102	0.00
5 TP	Bromomethane	0.258	0.273	-5.8	108	0.00
6 TP	Chloroethane	0.218	0.228	-4.6	107	0.00
7 TP	Trichlorofluoromethane	0.550	0.554	-0.7	101	0.00
8 TP	Ethyl ether	0.132	0.138	-4.5	105	0.00
10 TC	1,1-Dichloroethene	0.222	0.210	5.4	95	0.00
11 TP	Carbon disulfide	0.702	0.470	33.0#	71	0.00
12 TP	Freon-113	0.228	0.236	-3.5	101	0.00
14 TP	Acrolein	0.022	0.017#	22.7#	79	0.00
15 TP	Methylene chloride	0.286	0.259	9.4	96	0.00
17 TP	Acetone	* 40.000	42.077	-5.2	98	0.00
18 TP	trans-1,2-Dichloroethene	0.259	0.252	2.7	98	0.00
19 TP	Methyl acetate	0.128	0.124	3.1	103	0.00
20 TP	Methyl tert-butyl ether	0.644	0.631	2.0	97	0.00
21 TP	tert-Butyl alcohol	0.019	0.021#	-10.5	109	0.00
22 TP	Diisopropyl ether	0.751	0.764	-1.7	101	0.00
23 TP	1,1-Dichloroethane	0.455	0.445	2.2	99	0.00
24 TP	Halothane	0.195	0.186	4.6	95	0.00
25 TP	Acrylonitrile	0.059	0.059	0.0	95	0.00
26 TP	Ethyl tert-butyl ether	0.691	0.725	-4.9	104	0.00
27 TP	Vinyl acetate	0.478	0.418	12.6	84	0.00
28 TP	cis-1,2-Dichloroethene	0.295	0.276	6.4	94	0.00
29 TP	2,2-Dichloropropane	0.372	0.348	6.5	93	0.00
30 TP	Bromochloromethane	0.150	0.144	4.0	97	0.00
31 TP	Cyclohexane	0.357	0.357	0.0	96	0.00
32 TC	Chloroform	0.503	0.475	5.6	97	0.00
33 TP	Ethyl acetate	0.188	0.185	1.6	95	0.00
34 TP	Carbon tetrachloride	0.382	0.370	3.1	94	0.00
35 TP	Tetrahydrofuran	0.066	0.068	-3.0	98	0.00
36 S	Dibromofluoromethane	0.273	0.272	0.4	104	0.00
37 TP	1,1,1-Trichloroethane	0.403	0.416	-3.2	99	0.00
39 TP	2-Butanone	0.083	0.077#	7.2	93	0.00
40 TP	1,1-Dichloropropene	0.320	0.322	-0.6	95	0.00
41 TP	Benzene	0.992	0.976	1.6	96	0.00
42 TP	tert-Amyl methyl ether	0.644	0.669	-3.9	101	0.00
43 S	1,2-Dichloroethane-d4	0.240	0.239	0.4	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.332	0.327	1.5	98	0.00
47 TP	Methyl cyclohexane	0.399	0.402	-0.8	97	0.00
48 TP	Trichloroethene	0.274	0.280	-2.2	99	0.00
50 TP	Dibromomethane	0.162	0.157	3.1	96	0.00
51 TC	1,2-Dichloropropane	0.256	0.253	1.2	98	0.00
53 TP	2-Chloroethyl vinyl ether	0.127	0.133	-4.7	99	0.00
54 TP	Bromodichloromethane	0.361	0.372	-3.0	97	0.00
57 TP	1,4-Dioxane	0.00195	0.00214#	-9.7	100	0.00
58 TP	cis-1,3-Dichloropropene	0.397	0.409	-3.0	98	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
60 S	Toluene-d8	1.237	1.241	-0.3	104	0.00
61 TC	Toluene	0.811	0.793	2.2	97	0.00
62 TP	4-Methyl-2-pentanone	0.084	0.084#	0.0	92	0.00
63 TP	Tetrachloroethene	0.362	0.355	1.9	93	0.00
65 TP	trans-1,3-Dichloropropene	0.436	0.463	-6.2	99	0.00
67 TP	Ethyl methacrylate	0.337	0.356	-5.6	99	0.00
68 TP	1,1,2-Trichloroethane	0.232	0.234	-0.9	99	0.00
69 TP	Chlorodibromomethane	* 40.000	38.605	3.5	99	0.00
70 TP	1,3-Dichloropropane	0.453	0.453	0.0	97	0.00
71 TP	1,2-Dibromoethane	0.271	0.278	-2.6	95	0.00
72 TP	2-Hexanone	0.154	0.155	-0.6	95	0.00
73 TP	Chlorobenzene	0.952	0.981	-3.0	100	0.00
74 TC	Ethylbenzene	1.577	1.550	1.7	95	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.360	0.376	-4.4	97	0.00
76 TP	p/m Xylene	0.622	0.620	0.3	95	0.00
77 TP	o Xylene	0.603	0.622	-3.2	98	0.00
78 TP	Styrene	* 80.000	74.585	6.8	97	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
80 TP	Bromoform	0.416	0.409	1.7	103	0.00
82 TP	Isopropylbenzene	2.782	2.739	1.5	95	0.00
83 S	4-Bromofluorobenzene	0.763	0.754	1.2	102	0.00
84 TP	Bromobenzene	0.766	0.736	3.9	96	0.00
85 TP	n-Propylbenzene	3.311	3.192	3.6	94	0.00
86 TP	1,4-Dichlorobutane	0.757	0.770	-1.7	102	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.580	0.583	-0.5	98	0.00
88 TP	4-Ethyltoluene	2.810	2.844	-1.2	100	0.00
89 TP	2-Chlorotoluene	1.920	1.890	1.6	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.415	2.333	3.4	93	0.00
91 TP	1,2,3-Trichloropropane	0.465	0.453	2.6	97	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.156	0.161	-3.2	98	0.00
93 TP	4-Chlorotoluene	2.021	1.962	2.9	95	0.00
94 TP	tert-Butylbenzene	2.110	2.074	1.7	94	0.00
97 TP	1,2,4-Trimethylbenzene	2.470	2.446	1.0	97	0.00
98 TP	sec-Butylbenzene	3.142	3.068	2.4	93	0.00
99 TP	p-Isopropyltoluene	2.750	2.696	2.0	93	0.00
100 TP	1,3-Dichlorobenzene	1.542	1.514	1.8	97	0.00
101 TP	1,4-Dichlorobenzene	1.564	1.508	3.6	97	0.00
102 TP	p-Diethylbenzene	1.643	1.586	3.5	92	0.00
103 TP	n-Butylbenzene	2.442	2.435	0.3	94	0.00
104 TP	1,2-Dichlorobenzene	1.451	1.439	0.8	98	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.580	2.622	-1.6	96	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.098	0.100	-2.0	94	0.00
107 TP	1,3,5-Trichlorobenzene	1.077	1.000	7.1	92	0.00
108 TP	Hexachlorobutadiene	0.522	0.463	11.3	87	0.00
109 TP	1,2,4-Trichlorobenzene	0.990	0.924	6.7	92	0.00
110 TP	Naphthalene	2.056	2.106	-2.4	97	0.00
111 TP	1,2,3-Trichlorobenzene	0.911	0.855	6.1	92	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.734	96	256636	20.000	ug/L	0.00
Standard Area 1 = 244742			Recovery	=	104.86%	
59) Chlorobenzene-d5	9.236	117	204023	20.000	ug/L	0.00
Standard Area 1 = 195113			Recovery	=	104.57%	
79) 1,4-Dichlorobenzene-d4	12.000	152	120894	20.000	ug/L	0.00
Standard Area 1 = 116350			Recovery	=	103.91%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.932	113	69830	19.967	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.83%	
43) 1,2-Dichloroethane-d4	5.451	65	61450	19.968	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.84%	
60) Toluene-d8	7.407	98	253253	20.063	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.32%	
83) 4-Bromofluorobenzene	10.762	95	91150	19.755	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.77%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	130909	36.874	ug/L	99
3) Chloromethane	1.702	50	142792	42.144	ug/L	99
4) Vinyl chloride	1.765	62	153678	41.582	ug/L	100
5) Bromomethane	2.059	94	139896	42.299	ug/L	99
6) Chloroethane	2.174	64	116828	41.784	ug/L	99
7) Trichlorofluoromethane	2.300	101	284139	40.295	ug/L	100
8) Ethyl ether	2.578	74	70919	41.866	ug/L	93
10) 1,1-Dichloroethene	2.761	96	107992	37.896	ug/L	99
11) Carbon disulfide	2.787	76	241402	26.784	ug/L	98
12) Freon-113	2.798	101	121241	41.392	ug/L	96
14) Acrolein	3.065	56	8907	31.441	ug/L	96
15) Methylene chloride	3.286	84	133177	36.241	ug/L	93
17) Acetone	3.333	43	24677	42.077	ug/L	89
18) trans-1,2-Dichloroethene	3.432	96	129343	38.896	ug/L	97
19) Methyl acetate	3.443	43	63520	38.633	ug/L #	90
20) Methyl tert-butyl ether	3.532	73	324038	39.242	ug/L	96
21) tert-Butyl alcohol	3.611	59	54745	228.303	ug/L	92
22) Diisopropyl ether	3.878	45	392222	40.720	ug/L	94
23) 1,1-Dichloroethane	3.999	63	228527	39.164	ug/L	98
24) Halothane	4.051	117	95697	38.249	ug/L	100
25) Acrylonitrile	4.041	53	30280	40.120	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.219	59	372212	41.960	ug/L	88
27) Vinyl acetate	4.229	43	214468	34.978	ug/L #	94
28) cis-1,2-Dichloroethene	4.502	96	141461	37.352	ug/L	98
29) 2,2-Dichloropropane	4.607	77	178616	37.451	ug/L	93
30) Bromochloromethane	4.691	128	73972	38.478	ug/L	99
31) Cyclohexane	4.691	56	183317	40.031	ug/L	98
32) Chloroform	4.759	83	243977	37.836	ug/L	97
33) Ethyl acetate	4.874	43	94922	39.252	ug/L	98
34) Carbon tetrachloride	4.890	117	190162	38.818	ug/L	99
35) Tetrahydrofuran	4.906	42	35134	41.206	ug/L	89
37) 1,1,1-Trichloroethane	4.958	97	213677	41.277	ug/L	99
39) 2-Butanone	5.052	43	39647	37.356	ug/L #	85
40) 1,1-Dichloropropene	5.079	75	165529	40.353	ug/L	97
41) Benzene	5.320	78	500986	39.374	ug/L	98
42) tert-Amyl methyl ether	5.430	73	343332	41.524	ug/L	99
44) 1,2-Dichloroethane	5.519	62	167770	39.394	ug/L	100
47) Methyl cyclohexane	5.897	83	206226	40.310	ug/L	99
48) Trichloroethene	5.902	95	143624	40.850	ug/L	94
50) Dibromomethane	6.337	93	80808	38.903	ug/L	99
51) 1,2-Dichloropropane	6.442	63	129916	39.529	ug/L	99
53) 2-Chloroethyl vinyl ether	7.139	63	68411	41.960	ug/L	94
54) Bromodichloromethane	6.510	83	190904	41.190	ug/L	99
57) 1,4-Dioxane	6.730	88	54816	2195.504	ug/L	96
58) cis-1,3-Dichloropropene	7.197	75	209988	41.220	ug/L #	91
61) Toluene	7.464	92	323408	39.082	ug/L	98
62) 4-Methyl-2-pentanone	7.905	58	34235	40.091	ug/L #	73
63) Tetrachloroethene	7.905	166	144888	39.212	ug/L	98
65) trans-1,3-Dichloropropene	7.941	75	188898	42.459	ug/L	93
67) Ethyl methacrylate	8.146	69	145405	42.351	ug/L	92
68) 1,1,2-Trichloroethane	8.125	83	95461	40.402	ug/L	100
69) Chlorodibromomethane	8.329	129	153478	38.605	ug/L	96
70) 1,3-Dichloropropane	8.450	76	184766	39.943	ug/L	99
71) 1,2-Dibromoethane	8.602	107	113429	41.052	ug/L	100
72) 2-Hexanone	8.906	43	63424	40.275	ug/L	88
73) Chlorobenzene	9.257	112	400346	41.204	ug/L #	84
74) Ethylbenzene	9.299	91	632515	39.308	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.341	131	153458	41.753	ug/L	98
76) p/m Xylene	9.488	106	506380	79.853	ug/L	97
77) o Xylene	10.033	106	507364	82.468	ug/L	98
78) Styrene	10.107	104	891725	74.585	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
 Data File : V23211020N18.D
 Acq On : 21 Oct 2021 02:41 am
 Operator : VOA123:JC
 Sample : C8260STD40PPB
 Misc : WG1561383,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 08:48:18 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211020N-ICAL\V23211020N10.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.117	173	98855	39.274	ug/L	99
82)	Isopropylbenzene	10.437	105	662268	39.388	ug/L	99
84)	Bromobenzene	10.878	156	177972	38.431	ug/L	100
85)	n-Propylbenzene	10.930	91	771754	38.566	ug/L	97
86)	1,4-Dichlorobutane	10.946	55	186122	40.655	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.019	83	141053	40.198	ug/L	99
88)	4-Ethyltoluene	11.061	105	687725	40.490	ug/L	98
89)	2-Chlorotoluene	11.098	91	457046M6	39.385	ug/L	
90)	1,3,5-Trimethylbenzene	11.166	105	564137	38.642	ug/L	99
91)	1,2,3-Trichloropropane	11.161	75	109485	38.941	ug/L	93
92)	trans-1,4-Dichloro-2-b...	11.218	53	38843	41.219	ug/L	85
93)	4-Chlorotoluene	11.287	91	474433	38.842	ug/L	92
94)	tert-Butylbenzene	11.512	119	501499	39.327	ug/L	96
97)	1,2,4-Trimethylbenzene	11.591	105	591370	39.616	ug/L	98
98)	sec-Butylbenzene	11.706	105	741870	39.059	ug/L	96
99)	p-Isopropyltoluene	11.863	119	651793	39.207	ug/L	99
100)	1,3-Dichlorobenzene	11.921	146	366185	39.293	ug/L	98
101)	1,4-Dichlorobenzene	12.015	146	364640	38.576	ug/L	98
102)	p-Diethylbenzene	12.246	119	383448	38.598	ug/L	97
103)	n-Butylbenzene	12.304	91	588782	39.890	ug/L	97
104)	1,2-Dichlorobenzene	12.445	146	348005	39.673	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.048	119	634070	40.665	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.232	155	24199	40.944	ug/L	99
107)	1,3,5-Trichlorobenzene	13.263	180	241745	37.131	ug/L	99
108)	Hexachlorobutadiene	13.845	225	111831	35.419	ug/L	98
109)	1,2,4-Trichlorobenzene	13.866	180	223407	37.329	ug/L	99
110)	Naphthalene	14.160	128	509217	40.983	ug/L	100
111)	1,2,3-Trichlorobenzene	14.328	180	206660	37.514	ug/L	98

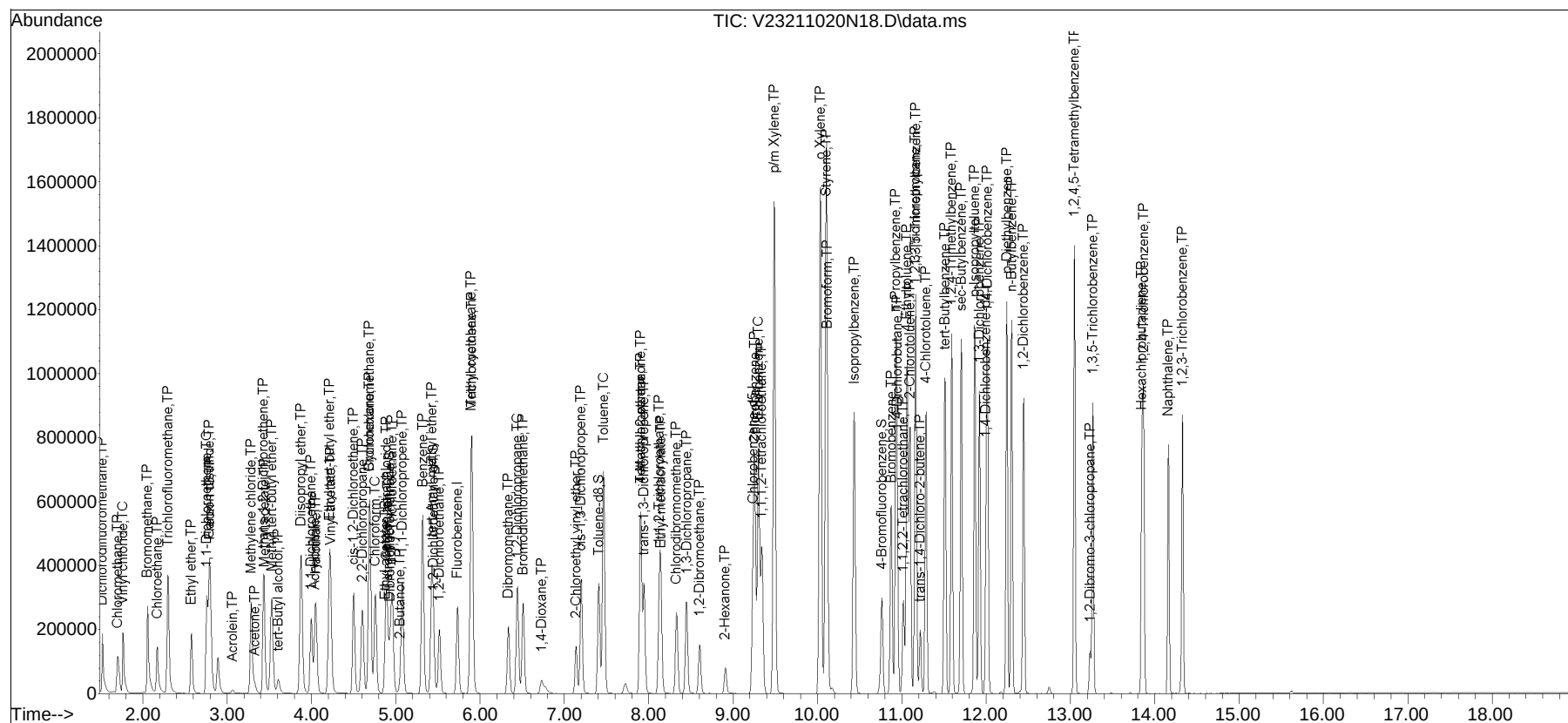
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : I:\VOLATILES\VOA123\2021\211020N-ICAL\
Data File : V23211020N18.D
Acq On    : 21 Oct 2021  02:41 am
Operator  : VOA123:JC
Sample    : C8260STD40PPB
Misc      : WG1561383,ICAL
ALS Vial  : 18      Sample Multiplier: 1
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Quant Time: Oct 21 08:48:18 2021
Quant Method : I:\VOLATILES\VOA123\2021\211020N-ICAL\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:44:24 2021
Response via : Initial Calibration

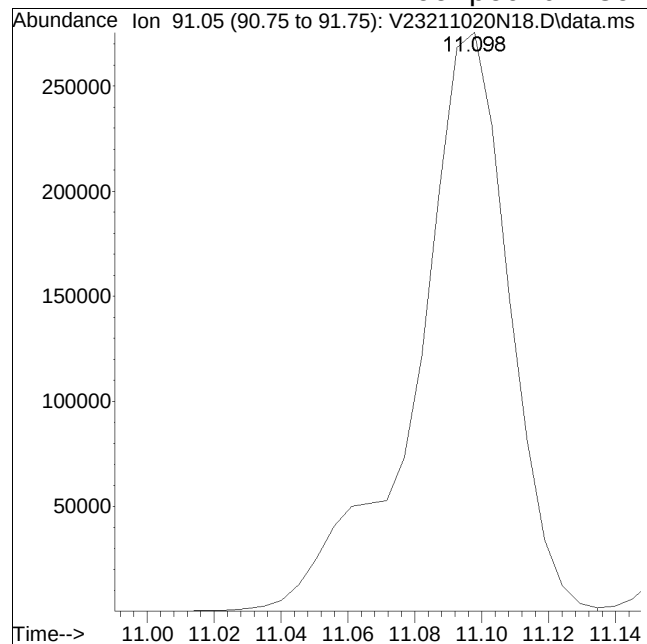
Sub List : 8260-CurveSoil - Megamix plus Diox0N-ICAL\V23211020N10.D•



Manual Integration Report

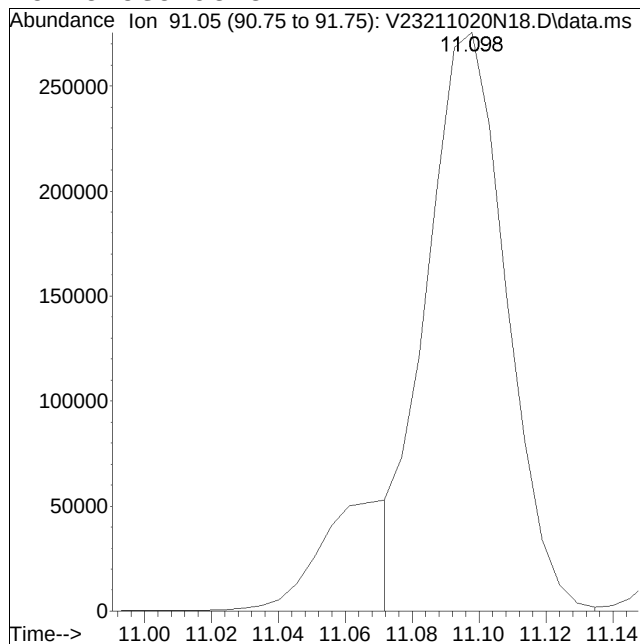
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211020N18.D Operator : VOA123:JC
Date Inj'd : 10/21/2021 2:41 am Instrument : VOA 123
Sample : C8260STD40PPB Quant Date : 10/21/2021 8:46 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 532162

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 457046 M6

Correlation Data Summary

Method Path: I:\VOLATILES\VOA123\2021\211020N-ICAL\
Method File: V123_211020N_8260.m
Method Title: VOLATILES BY GC/MS
Last Update: Thu Oct 21 08:44:24 2021
Response Via: Initial Calibration

Analyte	Curve fit Type	Coefficient of Determination	Quadratic Term	Linear Term	Constant Term
Acetone	Linear	0.99685	0	0.044138	0.003296
Chlorodibromomethane	Linear	0.999637	0	0.392617	-0.0056
Styrene	Linear	0.999529	0	1.181911	-0.03694

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Lab File ID : V27211102N02
 Sample No : WG1566511-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/02/21 16:38
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 20:25 23:08

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	0
Dichlorodifluoromethane	0.333	0.316	-	5.1	20	67	0
Chloromethane	0.679	0.662	-	2.5	20	73	0
Vinyl chloride	0.38	0.367	-	3.4	20	67	0
Bromomethane	40	34.775	-	13.1	20	57	0
Chloroethane	0.264	0.186	-	29.5*	20	58	0
Trichlorofluoromethane	0.422	0.422	-	0	20	68	0
Ethyl ether	0.17	0.12	-	29.4*	20	51	0
1,1-Dichloroethene	0.276	0.208	-	24.6*	20	56	0
Carbon disulfide	0.82	0.603	-	26.5*	20	52	0
Freon-113	0.225	0.21	-	6.7	20	64	0
Methylene chloride	40	33.7	-	15.7	20	56	0
Acetone	40	24.214	-	39.5*	20	50	0
trans-1,2-Dichloroethene	0.308	0.23	-	25.3*	20	59	0
Methyl acetate	0.245	0.2	-	18.4	20	61	0
Methyl tert-butyl ether	0.707	0.658	-	6.9	20	66	0
tert-Butyl alcohol	0.047	0.044*	-	6.4	20	70	0
Diisopropyl ether	0.935	0.933	-	0.2	20	70	0
1,1-Dichloroethane	0.641	0.569	-	11.2	20	67	0
Halothane	0.208	0.171	-	17.8	20	58	0
Acrylonitrile	0.137	0.128	-	6.6	20	69	0
Ethyl tert-butyl ether	0.845	0.989	-	-17	20	82	0
Vinyl acetate	0.685	0.776	-	-13.3	20	77	0
cis-1,2-Dichloroethene	0.359	0.294	-	18.1	20	62	0
2,2-Dichloropropane	0.474	0.434	-	8.4	20	66	0
Bromochloromethane	0.175	0.139	-	20.6*	20	59	0
Cyclohexane	0.528	0.632	-	-19.7	20	78	0
Chloroform	0.578	0.504	-	12.8	20	66	0
Ethyl acetate	0.322	0.325	-	-0.9	20	73	0
Carbon tetrachloride	0.372	0.398	-	-7	20	72	0
Tetrahydrofuran	40	47.006	-	-17.5	20	75	0
Dibromofluoromethane	0.304	0.278	-	8.6	20	69	0
1,1,1-Trichloroethane	0.45	0.446	-	0.9	20	71	0
2-Butanone	0.207	0.161	-	22.2*	20	62	0
1,1-Dichloropropene	40	36.68	-	8.3	20	66	0
Benzene	1.061	0.931	-	12.3	20	62	0
tert-Amyl methyl ether	0.666	0.612	-	8.1	20	65	0
1,2-Dichloroethane-d4	0.337	0.363	-	-7.7	20	80	0
1,2-Dichloroethane	0.419	0.465	-	-11	20	78	0
Methyl cyclohexane	0.439	0.387	-	11.8	20	62	0
Trichloroethene	0.273	0.259	-	5.1	20	68	0
Dibromomethane	0.188	0.165	-	12.2	20	66	0
1,2-Dichloropropane	0.301	0.319	-	-6	20	71	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Lab File ID : V27211102N02
 Sample No : WG1566511-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/02/21 16:38
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 20:25 23:08

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.416	0.371	-	10.8	20	67	0
1,4-Dioxane	0.00361	0.00281*	-	22.2*	20	56	0
cis-1,3-Dichloropropene	0.404	0.402	-	0.5	20	65	0
Chlorobenzene-d5	1	1	-	0	20	71	0
Toluene-d8	1.308	1.249	-	4.5	20	68	0
Toluene	0.893	0.784	-	12.2	20	61	0
4-Methyl-2-pentanone	0.146	0.156	-	-6.8	20	75	0
Tetrachloroethene	0.34	0.339	-	0.3	20	65	0
trans-1,3-Dichloropropene	0.462	0.468	-	-1.3	20	68	0
Ethyl methacrylate	0.471	0.361	-	23.4*	20	57	0
1,1,2-Trichloroethane	0.233	0.209	-	10.3	20	63	0
Chlorodibromomethane	0.322	0.328	-	-1.9	20	69	0
1,3-Dichloropropane	0.469	0.458	-	2.3	20	66	0
1,2-Dibromoethane	0.264	0.269	-	-1.9	20	67	0
2-Hexanone	0.315	0.262	-	16.8	20	65	0
Chlorobenzene	0.973	0.886	-	8.9	20	63	0
Ethylbenzene	1.708	1.554	-	9	20	62	0
1,1,1,2-Tetrachloroethane	0.299	0.303	-	-1.3	20	67	0
p/m Xylene	0.703	0.599	-	14.8	20	60	0
o Xylene	0.678	0.576	-	15	20	60	0
Styrene	1.159	0.985	-	15	20	59	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Bromoform	0.368	0.378	-	-2.7	20	66	0
Isopropylbenzene	3.057	2.945	-	3.7	20	62	0
4-Bromofluorobenzene	0.947	0.928	-	2	20	67	0
Bromobenzene	0.747	0.717	-	4	20	64	0
n-Propylbenzene	3.7	3.512	-	5.1	20	61	0
1,4-Dichlorobutane	1.195	1.381	-	-15.6	20	78	0
1,1,2,2-Tetrachloroethane	0.653	0.568	-	13	20	60	0
4-Ethyltoluene	3.165	3.001	-	5.2	20	61	0
2-Chlorotoluene	2.285	2.144	-	6.2	20	61	0
1,3,5-Trimethylbenzene	2.789	2.671	-	4.2	20	62	0
1,2,3-Trichloropropane	0.532	0.515	-	3.2	20	63	0
trans-1,4-Dichloro-2-buten	0.251	0.281	-	-12	20	81	0
4-Chlorotoluene	2.377	2.252	-	5.3	20	62	0
tert-Butylbenzene	2.287	2.183	-	4.5	20	61	0
1,2,4-Trimethylbenzene	2.793	2.664	-	4.6	20	62	0
sec-Butylbenzene	3.424	3.226	-	5.8	20	60	0
p-Isopropyltoluene	3.008	2.898	-	3.7	20	61	0
1,3-Dichlorobenzene	1.509	1.449	-	4	20	62	0
1,4-Dichlorobenzene	1.528	1.434	-	6.2	20	62	0
p-Diethylbenzene	1.802	1.702	-	5.5	20	60	0
n-Butylbenzene	2.623	2.558	-	2.5	20	62	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA127
 Lab File ID : V27211102N02
 Sample No : WG1566511-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/02/21 16:38
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 20:25 23:08

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichlorobenzene	1.447	1.344	-	7.1	20	62	0
1,2,4,5-Tetramethylbenzene	2.703	2.596	-	4	20	63	0
1,2-Dibromo-3-chloropropan	0.126	0.12	-	4.8	20	63	0
1,3,5-Trichlorobenzene	1.114	1.088	-	2.3	20	64	0
Hexachlorobutadiene	0.522	0.518	-	0.8	20	65	0
1,2,4-Trichlorobenzene	1.06	1.044	-	1.5	20	65	0
Naphthalene	2.629	2.412	-	8.3	20	62	0
1,2,3-Trichlorobenzene	1.006	0.962	-	4.4	20	63	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Lab File ID : V23211106A01
 Sample No : WG1568305-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/06/21 06:05
 Init. Calib. Date(s) : 10/20/21 10/21/21
 Init. Calib. Times : 20:51 00:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	85	-.01
Dichlorodifluoromethane	0.277	0.254	-	8.3	20	73	0
Chloromethane	0.264	0.253	-	4.2	20	80	0
Vinyl chloride	0.288	0.282	-	2.1	20	78	0
Bromomethane	0.258	0.26	-	-0.8	20	84	0
Chloroethane	0.218	0.223	-	-2.3	20	85	0
Trichlorofluoromethane	0.55	0.547	-	0.5	20	81	0
Ethyl ether	0.132	0.131	-	0.8	20	80	0
1,1-Dichloroethene	0.222	0.227	-	-2.3	20	83	0
Carbon disulfide	0.702	0.651	-	7.3	20	80	0
Freon-113	0.228	0.247	-	-8.3	20	86	0
Acrolein	0.022	0.022*	-	0	20	83	0
Methylene chloride	0.286	0.273	-	4.5	20	82	0
Acetone	40	41.047	-	-2.6	20	78	-.01
trans-1,2-Dichloroethene	0.259	0.264	-	-1.9	20	83	0
Methyl acetate	0.128	0.118	-	7.8	20	79	0
Methyl tert-butyl ether	0.644	0.649	-	-0.8	20	81	0
tert-Butyl alcohol	0.019	0.02*	-	-5.3	20	81	0
Diisopropyl ether	0.751	0.788	-	-4.9	20	84	0
1,1-Dichloroethane	0.455	0.473	-	-4	20	85	0
Halothane	0.195	0.212	-	-8.7	20	87	0
Acrylonitrile	0.059	0.061	-	-3.4	20	79	0
Ethyl tert-butyl ether	0.691	0.71	-	-2.7	20	82	0
Vinyl acetate	0.478	0.59	-	-23.4*	20	95	0
cis-1,2-Dichloroethene	0.295	0.303	-	-2.7	20	84	0
2,2-Dichloropropane	0.372	0.425	-	-14.2	20	91	0
Bromochloromethane	0.15	0.155	-	-3.3	20	85	0
Cyclohexane	0.357	0.385	-	-7.8	20	84	0
Chloroform	0.503	0.508	-	-1	20	84	0
Ethyl acetate	0.188	0.193	-	-2.7	20	80	-.01
Carbon tetrachloride	0.382	0.434	-	-13.6	20	89	0
Tetrahydrofuran	0.066	0.066	-	0	20	77	-.01
Dibromofluoromethane	0.273	0.274	-	-0.4	20	85	0
1,1,1-Trichloroethane	0.403	0.453	-	-12.4	20	87	0
2-Butanone	0.083	0.084*	-	-1.2	20	81	0
1,1-Dichloropropene	0.32	0.357	-	-11.6	20	85	0
Benzene	0.992	1.049	-	-5.7	20	84	-.01
tert-Amyl methyl ether	0.644	0.662	-	-2.8	20	81	0
1,2-Dichloroethane-d4	0.24	0.244	-	-1.7	20	86	-.01
1,2-Dichloroethane	0.332	0.336	-	-1.2	20	81	-.01
Methyl cyclohexane	0.399	0.435	-	-9	20	85	0
Trichloroethene	0.274	0.293	-	-6.9	20	84	0
Dibromomethane	0.162	0.167	-	-3.1	20	82	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Lab File ID : V23211106A01
 Sample No : WG1568305-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/06/21 06:05
 Init. Calib. Date(s) : 10/20/21 10/21/21
 Init. Calib. Times : 20:51 00:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.256	0.265	-	-3.5	20	83	0
2-Chloroethyl vinyl ether	0.127	0.114	-	10.2	20	69	-.01
Bromodichloromethane	0.361	0.4	-	-10.8	20	85	0
1,4-Dioxane	0.00195	0.00207*	-	-6.2	20	79	-.01
cis-1,3-Dichloropropene	0.397	0.441	-	-11.1	20	86	-.01
Chlorobenzene-d5	1	1	-	0	20	81	-.01
Toluene-d8	1.237	1.325	-	-7.1	20	85	0
Toluene	0.811	0.903	-	-11.3	20	85	0
4-Methyl-2-pentanone	0.084	0.087*	-	-3.6	20	73	0
Tetrachloroethene	0.362	0.416	-	-14.9	20	84	0
trans-1,3-Dichloropropene	0.436	0.523	-	-20	20	86	0
Ethyl methacrylate	0.337	0.355	-	-5.3	20	76	-.01
1,1,2-Trichloroethane	0.232	0.251	-	-8.2	20	82	0
Chlorodibromomethane	40	42.852	-	-7.1	20	85	0
1,3-Dichloropropane	0.453	0.492	-	-8.6	20	81	0
1,2-Dibromoethane	0.271	0.307	-	-13.3	20	80	0
2-Hexanone	0.154	0.161	-	-4.5	20	76	0
Chlorobenzene	0.952	1.07	-	-12.4	20	84	-.01
Ethylbenzene	1.577	1.795	-	-13.8	20	85	0
1,1,1,2-Tetrachloroethane	0.36	0.435	-	-20.8*	20	86	0
p/m Xylene	0.622	0.73	-	-17.4	20	86	0
o Xylene	0.603	0.697	-	-15.6	20	84	0
Styrene	80	82.038	-	-2.5	20	82	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	78	0
Bromoform	0.416	0.452	-	-8.7	20	86	0
Isopropylbenzene	2.782	3.245	-	-16.6	20	85	-.01
4-Bromofluorobenzene	0.763	0.779	-	-2.1	20	80	0
Bromobenzene	0.766	0.825	-	-7.7	20	81	-.01
n-Propylbenzene	3.311	3.857	-	-16.5	20	85	0
1,4-Dichlorobutane	0.757	0.816	-	-7.8	20	82	-.01
1,1,2,2-Tetrachloroethane	0.58	0.653	-	-12.6	20	83	0
4-Ethyltoluene	2.81	3.258	-	-15.9	20	86	0
2-Chlorotoluene	1.92	2.288	-	-19.2	20	87	0
1,3,5-Trimethylbenzene	2.415	2.834	-	-17.3	20	85	0
1,2,3-Trichloropropane	0.465	0.498	-	-7.1	20	81	0
trans-1,4-Dichloro-2-buten	0.156	0.183	-	-17.3	20	84	0
4-Chlorotoluene	2.021	2.328	-	-15.2	20	85	0
tert-Butylbenzene	2.11	2.472	-	-17.2	20	85	0
1,2,4-Trimethylbenzene	2.47	2.823	-	-14.3	20	84	0
sec-Butylbenzene	3.142	3.774	-	-20.1*	20	86	0
p-Isopropyltoluene	2.75	3.344	-	-21.6*	20	87	-.01
1,3-Dichlorobenzene	1.542	1.748	-	-13.4	20	84	0
1,4-Dichlorobenzene	1.564	1.74	-	-11.3	20	84	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Instrument ID : VOA123
 Lab File ID : V23211106A01
 Sample No : WG1568305-2
 Channel :

Lab Number : L2159098
 Project Number : 48122
 Calibration Date : 11/06/21 06:05
 Init. Calib. Date(s) : 10/20/21 10/21/21
 Init. Calib. Times : 20:51 00:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.643	1.972	-	-20	20	86	0
n-Butylbenzene	2.442	2.984	-	-22.2*	20	87	0
1,2-Dichlorobenzene	1.451	1.617	-	-11.4	20	83	0
1,2,4,5-Tetramethylbenzene	2.58	3.039	-	-17.8	20	84	0
1,2-Dibromo-3-chloropropan	0.098	0.108	-	-10.2	20	76	0
1,3,5-Trichlorobenzene	1.077	1.228	-	-14	20	85	0
Hexachlorobutadiene	0.522	0.573	-	-9.8	20	82	0
1,2,4-Trichlorobenzene	0.99	1.091	-	-10.2	20	82	0
Naphthalene	2.056	2.238	-	-8.9	20	78	0
1,2,3-Trichlorobenzene	0.911	0.97	-	-6.5	20	79	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511, ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	72	0.00
2 TP	Dichlorodifluoromethane	0.333	0.316	5.1	67	0.00
3 TP	Chloromethane	0.679	0.662	2.5	73	0.00
4 TC	Vinyl chloride	0.380	0.367	3.4	67	0.00
5 TP	Bromomethane	* 40.000	34.775	13.1	57	0.00
6 TP	Chloroethane	0.264	0.186	29.5#	58	0.00
7 TP	Trichlorofluoromethane	0.422	0.422	0.0	68	0.00
8 TP	Ethyl ether	0.170	0.120	29.4#	51	0.00
10 TC	1,1-Dichloroethene	0.276	0.208	24.6#	56	0.00
11 TP	Carbon disulfide	0.820	0.603	26.5#	52	0.00
12 TP	Freon-113	0.225	0.210	6.7	64	0.00
15 TP	Methylene chloride	* 40.000	33.700	15.7	56	0.00
17 TP	Acetone	* 40.000	24.214	39.5#	50#	0.00
18 TP	trans-1,2-Dichloroethene	0.308	0.230	25.3#	59	0.00
19 TP	Methyl acetate	0.245	0.200	18.4	61	0.00
20 TP	Methyl tert-butyl ether	0.707	0.658	6.9	66	0.00
21 TP	tert-Butyl alcohol	0.047	0.044#	6.4	70	0.00
22 TP	Diisopropyl ether	0.935	0.933	0.2	70	0.00
23 TP	1,1-Dichloroethane	0.641	0.569	11.2	67	0.00
24 TP	Halothane	0.208	0.171	17.8	58	0.00
25 TP	Acrylonitrile	0.137	0.128	6.6	69	0.00
26 TP	Ethyl tert-butyl ether	0.845	0.989	-17.0	82	0.00
27 TP	Vinyl acetate	0.685	0.776	-13.3	77	0.00
28 TP	cis-1,2-Dichloroethene	0.359	0.294	18.1	62	0.00
29 TP	2,2-Dichloropropane	0.474	0.434	8.4	66	0.00
30 TP	Bromochloromethane	0.175	0.139	20.6#	59	0.00
31 TP	Cyclohexane	0.528	0.632	-19.7	78	0.00
32 TC	Chloroform	0.578	0.504	12.8	66	0.00
33 TP	Ethyl acetate	0.322	0.325	-0.9	73	0.00
34 TP	Carbon tetrachloride	0.372	0.398	-7.0	72	0.00
35 TP	Tetrahydrofuran	* 40.000	47.006	-17.5	75	0.00
36 S	Dibromofluoromethane	0.304	0.278	8.6	69	0.00
37 TP	1,1,1-Trichloroethane	0.450	0.446	0.9	71	0.00
39 TP	2-Butanone	0.207	0.161	22.2#	62	0.00
40 TP	1,1-Dichloropropene	* 40.000	36.680	8.3	66	0.00
41 TP	Benzene	1.061	0.931	12.3	62	0.00
42 TP	tert-Amyl methyl ether	0.666	0.612	8.1	65	0.00
43 S	1,2-Dichloroethane-d4	0.337	0.363	-7.7	80	0.00
44 TP	1,2-Dichloroethane	0.419	0.465	-11.0	78	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511, ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 TP	Methyl cyclohexane	0.439	0.387	11.8	62	0.00
48 TP	Trichloroethene	0.273	0.259	5.1	68	0.00
50 TP	Dibromomethane	0.188	0.165	12.2	66	0.00
51 TC	1,2-Dichloropropane	0.301	0.319	-6.0	71	0.00
54 TP	Bromodichloromethane	0.416	0.371	10.8	67	0.00
57 TP	1,4-Dioxane	0.00361	0.00281#	22.2#	56	0.00
58 TP	cis-1,3-Dichloropropene	0.404	0.402	0.5	65	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00
60 S	Toluene-d8	1.308	1.249	4.5	68	0.00
61 TC	Toluene	0.893	0.784	12.2	61	0.00
62 TP	4-Methyl-2-pentanone	0.146	0.156	-6.8	75	0.00
63 TP	Tetrachloroethene	0.340	0.339	0.3	65	0.00
65 TP	trans-1,3-Dichloropropene	0.462	0.468	-1.3	68	0.00
67 TP	Ethyl methacrylate	0.471	0.361	23.4#	57	0.00
68 TP	1,1,2-Trichloroethane	0.233	0.209	10.3	63	0.00
69 TP	Chlorodibromomethane	0.322	0.328	-1.9	69	0.00
70 TP	1,3-Dichloropropane	0.469	0.458	2.3	66	0.00
71 TP	1,2-Dibromoethane	0.264	0.269	-1.9	67	0.00
72 TP	2-Hexanone	0.315	0.262	16.8	65	0.00
73 TP	Chlorobenzene	0.973	0.886	8.9	63	0.00
74 TC	Ethylbenzene	1.708	1.554	9.0	62	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.299	0.303	-1.3	67	0.00
76 TP	p/m Xylene	0.703	0.599	14.8	60	0.00
77 TP	o Xylene	0.678	0.576	15.0	60	0.00
78 TP	Styrene	1.159	0.985	15.0	59	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
80 TP	Bromoform	0.368	0.378	-2.7	66	0.00
82 TP	Isopropylbenzene	3.057	2.945	3.7	62	0.00
83 S	4-Bromofluorobenzene	0.947	0.928	2.0	67	0.00
84 TP	Bromobenzene	0.747	0.717	4.0	64	0.00
85 TP	n-Propylbenzene	3.700	3.512	5.1	61	0.00
86 TP	1,4-Dichlorobutane	1.195	1.381	-15.6	78	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.653	0.568	13.0	60	0.00
88 TP	4-Ethyltoluene	3.165	3.001	5.2	61	0.00
89 TP	2-Chlorotoluene	2.285	2.144	6.2	61	0.00
90 TP	1,3,5-Trimethylbenzene	2.789	2.671	4.2	62	0.00
91 TP	1,2,3-Trichloropropane	0.532	0.515	3.2	63	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92 TP	trans-1,4-Dichloro-2-butene	0.251	0.281	-12.0	81	0.00
93 TP	4-Chlorotoluene	2.377	2.252	5.3	62	0.00
94 TP	tert-Butylbenzene	2.287	2.183	4.5	61	0.00
97 TP	1,2,4-Trimethylbenzene	2.793	2.664	4.6	62	0.00
98 TP	sec-Butylbenzene	3.424	3.226	5.8	60	0.00
99 TP	p-Isopropyltoluene	3.008	2.898	3.7	61	0.00
100 TP	1,3-Dichlorobenzene	1.509	1.449	4.0	62	0.00
101 TP	1,4-Dichlorobenzene	1.528	1.434	6.2	62	0.00
102 TP	p-Diethylbenzene	1.802	1.702	5.5	60	0.00
103 TP	n-Butylbenzene	2.623	2.558	2.5	62	0.00
104 TP	1,2-Dichlorobenzene	1.447	1.344	7.1	62	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.703	2.596	4.0	63	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.126	0.120	4.8	63	0.00
107 TP	1,3,5-Trichlorobenzene	1.114	1.088	2.3	64	0.00
108 TP	Hexachlorobutadiene	0.522	0.518	0.8	65	0.00
109 TP	1,2,4-Trichlorobenzene	1.060	1.044	1.5	65	0.00
110 TP	Naphthalene	2.629	2.412	8.3	62	0.00
111 TP	1,2,3-Trichlorobenzene	1.006	0.962	4.4	63	0.00

 * Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 2 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511, ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	114333	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.761	117	91419	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	10.208	152	48274	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	31836	18.302	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	91.51%	
43) 1,2-Dichloroethane-d4	5.615	65	41458	21.511	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	107.56%	
60) Toluene-d8	7.560	98	114146	19.097	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.49%	
83) 4-Bromofluorobenzene	9.553	95	44803	19.601	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	72298	37.931	ug/L	99
3) Chloromethane	1.211	50	151375	38.987	ug/L	99
4) Vinyl chloride	1.269	62	83980	38.675	ug/L	100
5) Bromomethane	1.510	94	34453	34.775	ug/L	97
6) Chloroethane	1.610	64	42525	28.137	ug/L	100
7) Trichlorofluoromethane	1.714	101	96486	39.964	ug/L	97
8) Ethyl ether	1.987	74	27401	28.114	ug/L	85
10) 1,1-Dichloroethene	2.139	96	47653	30.201	ug/L	98
11) Carbon disulfide	2.144	76	137872	29.417	ug/L	97
12) Freon-113	2.186	101	48079	37.304	ug/L	97
15) Methylene chloride	2.711	84	58497	33.700	ug/L	96
17) Acetone	2.789	43	20124	24.214	ug/L	96
18) trans-1,2-Dichloroethene	2.873	96	52674	29.886	ug/L	96
19) Methyl acetate	2.936	43	45707	32.696	ug/L	# 96
20) Methyl tert-butyl ether	3.025	73	150455	37.234	ug/L	92
21) tert-Butyl alcohol	3.235	59	50288	186.627	ug/L	# 72
22) Diisopropyl ether	3.523	45	213279	39.886	ug/L	100
23) 1,1-Dichloroethane	3.618	63	130169	35.511	ug/L	97
24) Halothane	3.801	117	39124	32.876	ug/L	98
25) Acrylonitrile	3.728	53	29174	37.381	ug/L	96
26) Ethyl tert-butyl ether	4.037	59	226169	46.807	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Vinyl acetate	4.058	43	177442	45.307	ug/L	100
28) cis-1,2-Dichloroethene	4.388	96	67295	32.752	ug/L	93
29) 2,2-Dichloropropane	4.514	77	99145	36.576	ug/L	97
30) Bromochloromethane	4.651	128	31733	31.753	ug/L	86
31) Cyclohexane	4.593	56	144549	47.855	ug/L	94
32) Chloroform	4.792	83	115267	34.856	ug/L	98
33) Ethyl acetate	5.018	43	74356	40.371	ug/L #	96
34) Carbon tetrachloride	4.886	117	90905	42.782	ug/L	98
35) Tetrahydrofuran	4.970	42	28161	47.006	ug/L	98
37) 1,1,1-Trichloroethane	4.981	97	102061	39.707	ug/L #	95
39) 2-Butanone	5.201	43	36736	31.072	ug/L #	93
40) 1,1-Dichloropropene	5.138	75	74546	36.680	ug/L	95
41) Benzene	5.437	78	212932	35.118	ug/L	95
42) tert-Amyl methyl ether	5.641	73	139865	36.749	ug/L	95
44) 1,2-Dichloroethane	5.694	62	106348	44.347	ug/L	98
47) Methyl cyclohexane	6.066	83	88439	35.240	ug/L	86
48) Trichloroethene	6.113	95	59131	37.911	ug/L	97
50) Dibromomethane	6.554	93	37831	35.125	ug/L	95
51) 1,2-Dichloropropane	6.659	63	73014	42.454	ug/L #	94
54) Bromodichloromethane	6.764	83	84850	35.715	ug/L	98
57) 1,4-Dioxane	6.989	88	32135	1558.352	ug/L	88
58) cis-1,3-Dichloropropene	7.398	75	91941	39.837	ug/L	99
61) Toluene	7.608	92	143357	35.139	ug/L	94
62) 4-Methyl-2-pentanone	7.969	58	28535	42.903	ug/L	96
63) Tetrachloroethene	7.922	166	61907	39.808	ug/L	91
65) trans-1,3-Dichloropropene	7.990	75	85635	40.555	ug/L	96
67) Ethyl methacrylate	8.148	69	65936	30.622	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	38159	35.863	ug/L	89
69) Chlorodibromomethane	8.237	129	59939	40.733	ug/L	96
70) 1,3-Dichloropropane	8.310	76	83685	39.028	ug/L	99
71) 1,2-Dibromoethane	8.394	107	49155	40.799	ug/L	98
72) 2-Hexanone	8.604	43	47830	33.172	ug/L	93
73) Chlorobenzene	8.772	112	161966	36.426	ug/L	93
74) Ethylbenzene	8.803	91	284192	36.409	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	55351	40.527	ug/L	97
76) p/m Xylene	8.903	106	219116	68.174	ug/L	99
77) o Xylene	9.181	106	210585	67.996	ug/L	96
78) Styrene	9.217	104	360251	67.995	ug/L	95
80) Bromoform	9.233	173	36460	41.056	ug/L	95
82) Isopropylbenzene	9.380	105	284305	38.536	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Bromobenzene	9.611	156	69229	38.391	ug/L	98
85)	n-Propylbenzene	9.632	91	339088	37.971	ug/L	97
86)	1,4-Dichlorobutane	9.647	55	133310	46.230	ug/L	92
87)	1,1,2,2-Tetrachloroethane	9.689	83	54829	34.781	ug/L	100
88)	4-Ethyltoluene	9.700	105	289774	37.934	ug/L	98
89)	2-Chlorotoluene	9.721	91	207023M6	37.535	ug/L	
90)	1,3,5-Trimethylbenzene	9.752	105	257902	38.308	ug/L	94
91)	1,2,3-Trichloropropane	9.763	75	49747	38.742	ug/L	96
92)	trans-1,4-Dichloro-2-b...	9.789	53	27165	44.900	ug/L	88
93)	4-Chlorotoluene	9.820	91	217446	37.901	ug/L	97
94)	tert-Butylbenzene	9.936	119	210788	38.187	ug/L	94
97)	1,2,4-Trimethylbenzene	9.978	105	257158	38.151	ug/L	97
98)	sec-Butylbenzene	10.040	105	311463	37.687	ug/L	99
99)	p-Isopropyltoluene	10.124	119	279767	38.532	ug/L	99
100)	1,3-Dichlorobenzene	10.166	146	139901	38.419	ug/L	98
101)	1,4-Dichlorobenzene	10.219	146	138416	37.536	ug/L	98
102)	p-Diethylbenzene	10.329	119	164339	37.778	ug/L	95
103)	n-Butylbenzene	10.366	91	247001	39.013	ug/L	98
104)	1,2-Dichlorobenzene	10.460	146	129738	37.146	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.785	119	250632	38.419	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.916	155	11558	37.990	ug/L	94
107)	1,3,5-Trichlorobenzene	10.927	180	105022	39.075	ug/L	97
108)	Hexachlorobutadiene	11.262	225	50003	39.716	ug/L	97
109)	1,2,4-Trichlorobenzene	11.283	180	100796	39.402	ug/L	99
110)	Naphthalene	11.467	128	232834	36.694	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	92923	38.280	ug/L	97

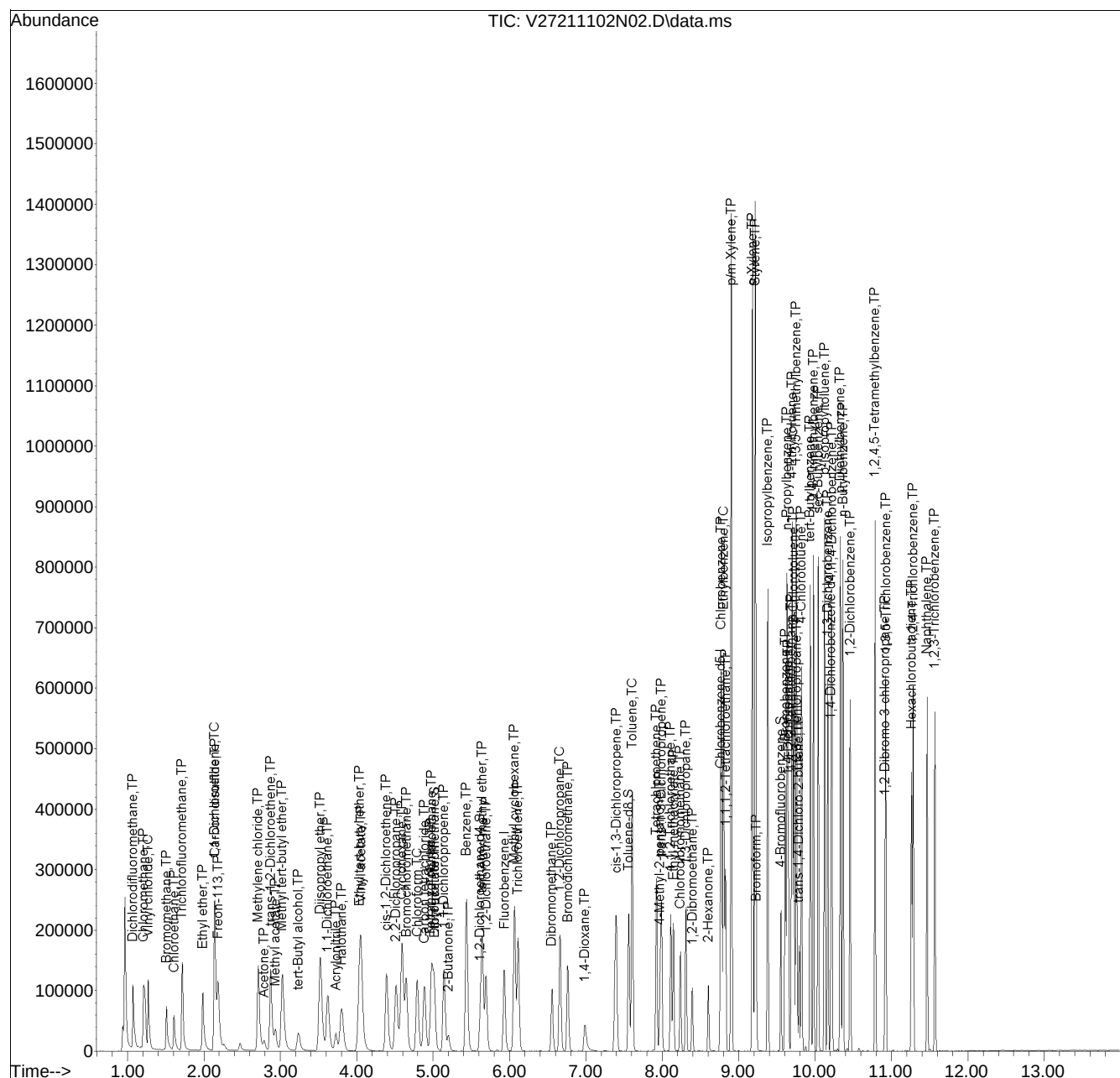
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-2
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

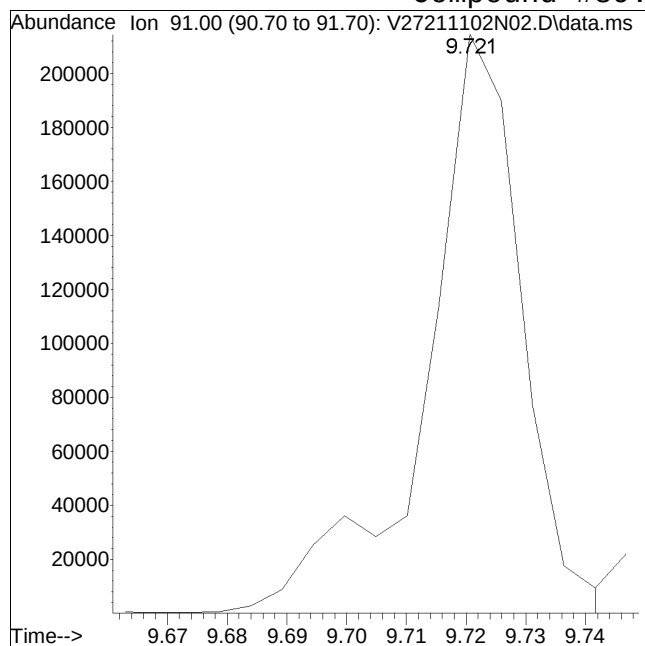
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve2.D•



Manual Integration Report

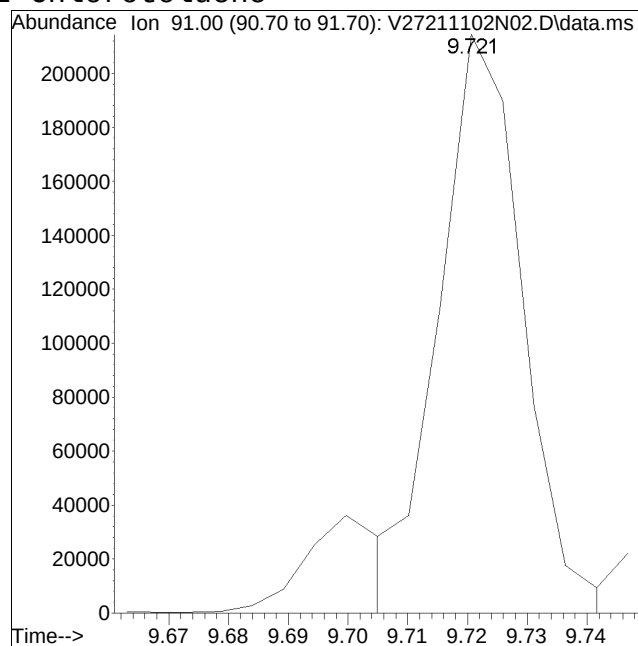
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211102N02.D Operator : VOA127:KJD
Date Inj'd : 11/2/2021 4:38 pm Instrument : VOA127
Sample : WG1566511-2 Quant Date : 11/2/2021 4:58 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 238522

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 207023 M6

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	85	-0.01
2 TP	Dichlorodifluoromethane	0.277	0.254	8.3	73	0.00
3 TP	Chloromethane	0.264	0.253	4.2	80	0.00
4 TC	Vinyl chloride	0.288	0.282	2.1	78	0.00
5 TP	Bromomethane	0.258	0.260	-0.8	84	0.00
6 TP	Chloroethane	0.218	0.223	-2.3	85	0.00
7 TP	Trichlorofluoromethane	0.550	0.547	0.5	81	0.00
8 TP	Ethyl ether	0.132	0.131	0.8	80	0.00
10 TC	1,1-Dichloroethene	0.222	0.227	-2.3	83	0.00
11 TP	Carbon disulfide	0.702	0.651	7.3	80	0.00
12 TP	Freon-113	0.228	0.247	-8.3	86	0.00
14 TP	Acrolein	0.022	0.022#	0.0	83	0.00
15 TP	Methylene chloride	0.286	0.273	4.5	82	0.00
17 TP	Acetone	* 40.000	41.047	-2.6	78	-0.01
18 TP	trans-1,2-Dichloroethene	0.259	0.264	-1.9	83	0.00
19 TP	Methyl acetate	0.128	0.118	7.8	79	0.00
20 TP	Methyl tert-butyl ether	0.644	0.649	-0.8	81	0.00
21 TP	tert-Butyl alcohol	0.019	0.020#	-5.3	81	0.00
22 TP	Diisopropyl ether	0.751	0.788	-4.9	84	0.00
23 TP	1,1-Dichloroethane	0.455	0.473	-4.0	85	0.00
24 TP	Halothane	0.195	0.212	-8.7	87	0.00
25 TP	Acrylonitrile	0.059	0.061	-3.4	79	0.00
26 TP	Ethyl tert-butyl ether	0.691	0.710	-2.7	82	0.00
27 TP	Vinyl acetate	0.478	0.590	-23.4#	95	0.00
28 TP	cis-1,2-Dichloroethene	0.295	0.303	-2.7	84	0.00
29 TP	2,2-Dichloropropane	0.372	0.425	-14.2	91	0.00
30 TP	Bromochloromethane	0.150	0.155	-3.3	85	0.00
31 TP	Cyclohexane	0.357	0.385	-7.8	84	0.00
32 TC	Chloroform	0.503	0.508	-1.0	84	0.00
33 TP	Ethyl acetate	0.188	0.193	-2.7	80	-0.01
34 TP	Carbon tetrachloride	0.382	0.434	-13.6	89	0.00
35 TP	Tetrahydrofuran	0.066	0.066	0.0	77	-0.01
36 S	Dibromofluoromethane	0.273	0.274	-0.4	85	0.00
37 TP	1,1,1-Trichloroethane	0.403	0.453	-12.4	87	0.00
39 TP	2-Butanone	0.083	0.084#	-1.2	81	0.00
40 TP	1,1-Dichloropropene	0.320	0.357	-11.6	85	0.00
41 TP	Benzene	0.992	1.049	-5.7	84	-0.01
42 TP	tert-Amyl methyl ether	0.644	0.662	-2.8	81	0.00
43 S	1,2-Dichloroethane-d4	0.240	0.244	-1.7	86	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.332	0.336	-1.2	81	-0.01
47 TP	Methyl cyclohexane	0.399	0.435	-9.0	85	0.00
48 TP	Trichloroethene	0.274	0.293	-6.9	84	0.00
50 TP	Dibromomethane	0.162	0.167	-3.1	82	-0.01
51 TC	1,2-Dichloropropane	0.256	0.265	-3.5	83	0.00
53 TP	2-Chloroethyl vinyl ether	0.127	0.114	10.2	69	-0.01
54 TP	Bromodichloromethane	0.361	0.400	-10.8	85	0.00
57 TP	1,4-Dioxane	0.00195	0.00207#	-6.2	79	-0.01
58 TP	cis-1,3-Dichloropropene	0.397	0.441	-11.1	86	-0.01
59 I	Chlorobenzene-d5	1.000	1.000	0.0	81	-0.01
60 S	Toluene-d8	1.237	1.325	-7.1	85	0.00
61 TC	Toluene	0.811	0.903	-11.3	85	0.00
62 TP	4-Methyl-2-pentanone	0.084	0.087#	-3.6	73	0.00
63 TP	Tetrachloroethene	0.362	0.416	-14.9	84	0.00
65 TP	trans-1,3-Dichloropropene	0.436	0.523	-20.0	86	0.00
67 TP	Ethyl methacrylate	0.337	0.355	-5.3	76	-0.01
68 TP	1,1,2-Trichloroethane	0.232	0.251	-8.2	82	0.00
69 TP	Chlorodibromomethane	* 40.000	42.852	-7.1	85	0.00
70 TP	1,3-Dichloropropane	0.453	0.492	-8.6	81	0.00
71 TP	1,2-Dibromoethane	0.271	0.307	-13.3	80	0.00
72 TP	2-Hexanone	0.154	0.161	-4.5	76	0.00
73 TP	Chlorobenzene	0.952	1.070	-12.4	84	-0.01
74 TC	Ethylbenzene	1.577	1.795	-13.8	85	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.360	0.435	-20.8#	86	0.00
76 TP	p/m Xylene	0.622	0.730	-17.4	86	0.00
77 TP	o Xylene	0.603	0.697	-15.6	84	0.00
78 TP	Styrene	* 80.000	82.038	-2.5	82	-0.01
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00
80 TP	Bromoform	0.416	0.452	-8.7	86	0.00
82 TP	Isopropylbenzene	2.782	3.245	-16.6	85	-0.01
83 S	4-Bromofluorobenzene	0.763	0.779	-2.1	80	0.00
84 TP	Bromobenzene	0.766	0.825	-7.7	81	-0.01
85 TP	n-Propylbenzene	3.311	3.857	-16.5	85	0.00
86 TP	1,4-Dichlorobutane	0.757	0.816	-7.8	82	-0.01
87 TP	1,1,2,2-Tetrachloroethane	0.580	0.653	-12.6	83	0.00
88 TP	4-Ethyltoluene	2.810	3.258	-15.9	86	0.00
89 TP	2-Chlorotoluene	1.920	2.288	-19.2	87	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.415	2.834	-17.3	85	0.00
91 TP	1,2,3-Trichloropropane	0.465	0.498	-7.1	81	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.156	0.183	-17.3	84	0.00
93 TP	4-Chlorotoluene	2.021	2.328	-15.2	85	0.00
94 TP	tert-Butylbenzene	2.110	2.472	-17.2	85	0.00
97 TP	1,2,4-Trimethylbenzene	2.470	2.823	-14.3	84	0.00
98 TP	sec-Butylbenzene	3.142	3.774	-20.1#	86	0.00
99 TP	p-Isopropyltoluene	2.750	3.344	-21.6#	87	-0.01
100 TP	1,3-Dichlorobenzene	1.542	1.748	-13.4	84	0.00
101 TP	1,4-Dichlorobenzene	1.564	1.740	-11.3	84	0.00
102 TP	p-Diethylbenzene	1.643	1.972	-20.0#	86	0.00
103 TP	n-Butylbenzene	2.442	2.984	-22.2#	87	0.00
104 TP	1,2-Dichlorobenzene	1.451	1.617	-11.4	83	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.580	3.039	-17.8	84	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.098	0.108	-10.2	76	0.00
107 TP	1,3,5-Trichlorobenzene	1.077	1.228	-14.0	85	0.00
108 TP	Hexachlorobutadiene	0.522	0.573	-9.8	82	0.00
109 TP	1,2,4-Trichlorobenzene	0.990	1.091	-10.2	82	0.00
110 TP	Naphthalene	2.056	2.238	-8.9	78	0.00
111 TP	1,2,3-Trichlorobenzene	0.911	0.970	-6.5	79	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.724	96	207736	20.000	ug/L	-0.01
Standard Area 1 = 207736			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.226	117	157233	20.000	ug/L	-0.01
Standard Area 1 = 157233			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.994	152	91068	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.927	113	56903	20.101	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.51%	
43) 1,2-Dichloroethane-d4	5.440	65	50634	20.326	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.63%	
60) Toluene-d8	7.401	98	208335	21.416	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	107.08%	
83) 4-Bromofluorobenzene	10.757	95	70934	20.409	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.04%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	105662	36.769	ug/L	99
3) Chloromethane	1.702	50	105225	38.367	ug/L	99
4) Vinyl chloride	1.765	62	116975	39.101	ug/L	99
5) Bromomethane	2.059	94	107963	40.328	ug/L	99
6) Chloroethane	2.169	64	92647	40.936	ug/L	100
7) Trichlorofluoromethane	2.300	101	227400	39.840	ug/L	100
8) Ethyl ether	2.572	74	54375	39.656	ug/L	90
10) 1,1-Dichloroethene	2.761	96	94514	40.974	ug/L	99
11) Carbon disulfide	2.782	76	270423	37.067	ug/L	100
12) Freon-113	2.793	101	102772	43.345	ug/L	99
14) Acrolein	3.060	56	9318	40.634	ug/L	99
15) Methylene chloride	3.280	84	113464	38.145	ug/L	94
17) Acetone	3.322	43	19503	41.047	ug/L #	87
18) trans-1,2-Dichloroethene	3.427	96	109488	40.676	ug/L	97
19) Methyl acetate	3.438	43	48903	36.744	ug/L #	91
20) Methyl tert-butyl ether	3.521	73	269506	40.321	ug/L	96
21) tert-Butyl alcohol	3.600	59	40807	210.236	ug/L #	91
22) Diisopropyl ether	3.873	45	327501	42.004	ug/L	94
23) 1,1-Dichloroethane	3.993	63	196398	41.580	ug/L	99
24) Halothane	4.046	117	87931	43.418	ug/L	100
25) Acrylonitrile	4.040	53	25312	41.432	ug/L #	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.208	59	294835	41.061	ug/L	96
27) Vinyl acetate	4.224	43	244983	49.361	ug/L	95
28) cis-1,2-Dichloroethene	4.497	96	126075	41.126	ug/L	97
29) 2,2-Dichloropropane	4.596	77	176590	45.742	ug/L	94
30) Bromochloromethane	4.680	128	64507	41.453	ug/L	98
31) Cyclohexane	4.685	56	159923	43.143	ug/L	100
32) Chloroform	4.754	83	211048	40.434	ug/L	97
33) Ethyl acetate	4.864	43	80179	40.961	ug/L	98
34) Carbon tetrachloride	4.885	117	180383	45.489	ug/L	99
35) Tetrahydrofuran	4.900	42	27505	39.852	ug/L #	87
37) 1,1,1-Trichloroethane	4.953	97	188196	44.913	ug/L	99
39) 2-Butanone	5.047	43	34838	40.552	ug/L	90
40) 1,1-Dichloropropene	5.073	75	148344	44.676	ug/L	98
41) Benzene	5.309	78	435640	42.298	ug/L	98
42) tert-Amyl methyl ether	5.425	73	275184	41.116	ug/L	98
44) 1,2-Dichloroethane	5.509	62	139441	40.450	ug/L	100
47) Methyl cyclohexane	5.886	83	180748	43.646	ug/L	99
48) Trichloroethene	5.897	95	121759	42.784	ug/L	94
50) Dibromomethane	6.327	93	69287	41.208	ug/L	97
51) 1,2-Dichloropropane	6.437	63	110260	41.445	ug/L	99
53) 2-Chloroethyl vinyl ether	7.129	63	47445	35.950	ug/L	95
54) Bromodichloromethane	6.505	83	166353	44.342	ug/L	99
57) 1,4-Dioxane	6.720	88	43104	2132.800	ug/L	98
58) cis-1,3-Dichloropropene	7.192	75	183257	44.441	ug/L	92
61) Toluene	7.459	92	283989	44.531	ug/L	98
62) 4-Methyl-2-pentanone	7.899	58	27257	41.418	ug/L #	70
63) Tetrachloroethene	7.899	166	130892	45.966	ug/L	98
65) trans-1,3-Dichloropropene	7.936	75	164476	47.971	ug/L	93
67) Ethyl methacrylate	8.135	69	111578	42.169	ug/L	87
68) 1,1,2-Trichloroethane	8.120	83	79079	43.428	ug/L	99
69) Chlorodibromomethane	8.324	129	131389	42.852	ug/L	97
70) 1,3-Dichloropropane	8.439	76	154682	43.391	ug/L	99
71) 1,2-Dibromoethane	8.597	107	96510	45.323	ug/L	99
72) 2-Hexanone	8.901	43	50760	41.825	ug/L	87
73) Chlorobenzene	9.247	112	336426	44.930	ug/L #	84
74) Ethylbenzene	9.294	91	564615	45.530	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.336	131	136685	48.256	ug/L	98
76) p/m Xylene	9.483	106	458994	93.919	ug/L	95
77) o Xylene	10.028	106	438397	92.463	ug/L	96
78) Styrene	10.096	104	756467	82.038	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-2
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.112	173	82286	43.398	ug/L	100
82)	Isopropylbenzene	10.427	105	591026	46.664	ug/L	98
84)	Bromobenzene	10.867	156	150177	43.050	ug/L	99
85)	n-Propylbenzene	10.925	91	702462	46.600	ug/L	97
86)	1,4-Dichlorobutane	10.935	55	148703	43.120	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.014	83	118849	44.963	ug/L	99
88)	4-Ethyltoluene	11.056	105	593447	46.383	ug/L	98
89)	2-Chlorotoluene	11.092	91	416715M6	47.670	ug/L	
90)	1,3,5-Trimethylbenzene	11.161	105	516221	46.941	ug/L	99
91)	1,2,3-Trichloropropane	11.150	75	90725	42.837	ug/L	94
92)	trans-1,4-Dichloro-2-b...	11.213	53	33368	47.006	ug/L	90
93)	4-Chlorotoluene	11.281	91	423995	46.081	ug/L	92
94)	tert-Butylbenzene	11.507	119	450161	46.862	ug/L	96
97)	1,2,4-Trimethylbenzene	11.585	105	514114	45.720	ug/L	98
98)	sec-Butylbenzene	11.701	105	687295	48.037	ug/L	97
99)	p-Isopropyltoluene	11.858	119	609147	48.642	ug/L	98
100)	1,3-Dichlorobenzene	11.916	146	318427	45.359	ug/L	98
101)	1,4-Dichlorobenzene	12.010	146	316846	44.497	ug/L	98
102)	p-Diethylbenzene	12.241	119	359136	47.991	ug/L	98
103)	n-Butylbenzene	12.298	91	543454	48.878	ug/L	97
104)	1,2-Dichlorobenzene	12.440	146	294433	44.559	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.043	119	553496	47.124	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.226	155	19586	43.993	ug/L	99
107)	1,3,5-Trichlorobenzene	13.258	180	223632	45.598	ug/L	98
108)	Hexachlorobutadiene	13.845	225	104385	43.888	ug/L	99
109)	1,2,4-Trichlorobenzene	13.861	180	198775	44.091	ug/L	99
110)	Naphthalene	14.160	128	407677	43.556	ug/L	100
111)	1,2,3-Trichlorobenzene	14.322	180	176662	42.572	ug/L	99

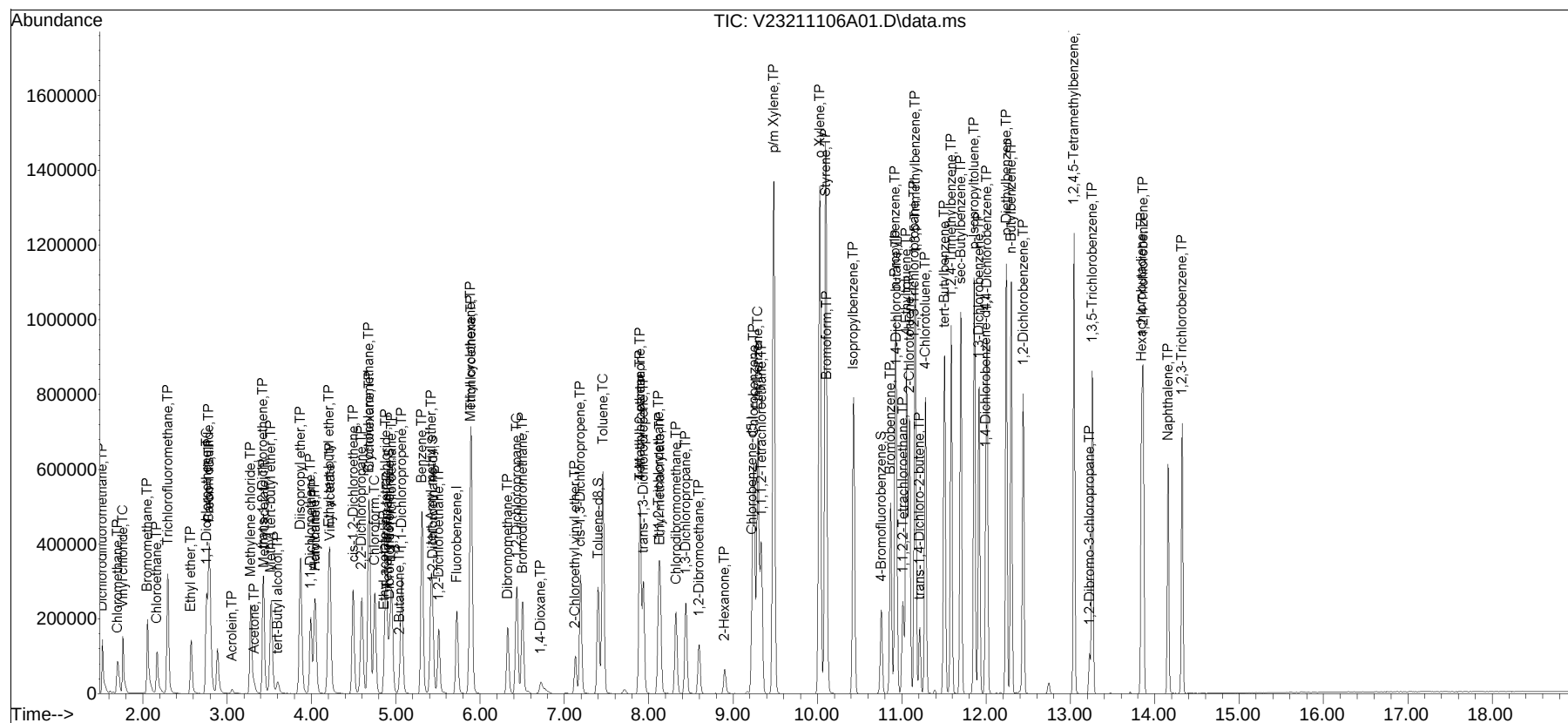
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
Data File : V23211106A01.D
Acq On : 06 Nov 2021 06:05 am
Operator : VOA123:MV
Sample : WG1568305-2
Misc : WG1568305,ICAL18401
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 21 08:44:24 2021
Response via : Initial Calibration

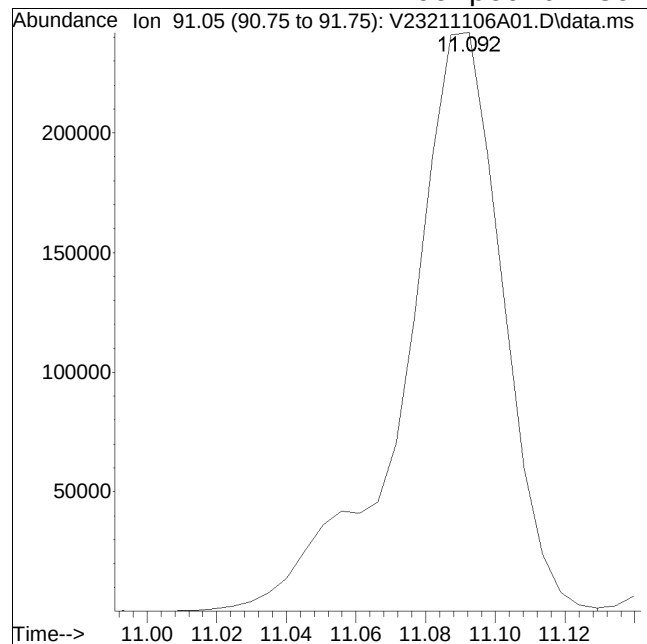
Sub List : 8260-CurveSoil - Megamix plus Diox6A\V23211106A01.D•



Manual Integration Report

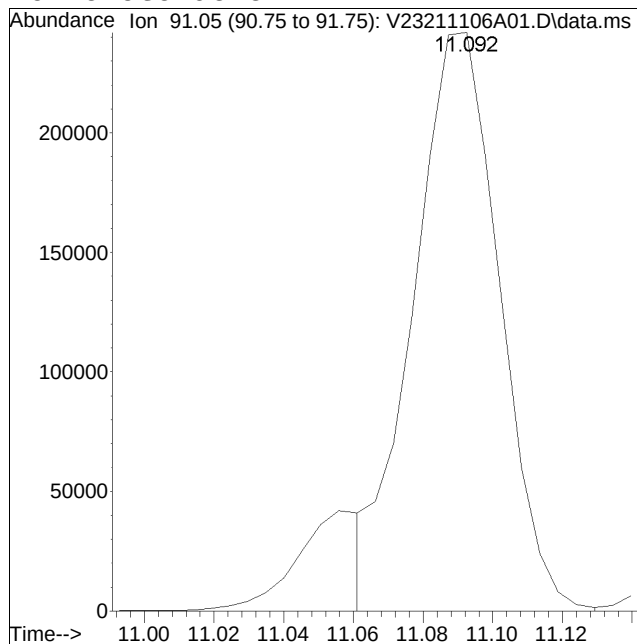
Data Path : I:\VOLATILES\VOA123\2021\2QMethod : V123_211020N_8260.m
Data File : V23211106A01.D Operator : VOA123:MV
Date Inj'd : 11/6/2021 6:05 am Instrument : VOA 123
Sample : WG1568305-2 Quant Date : 11/6/2021 6:35 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 470199

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



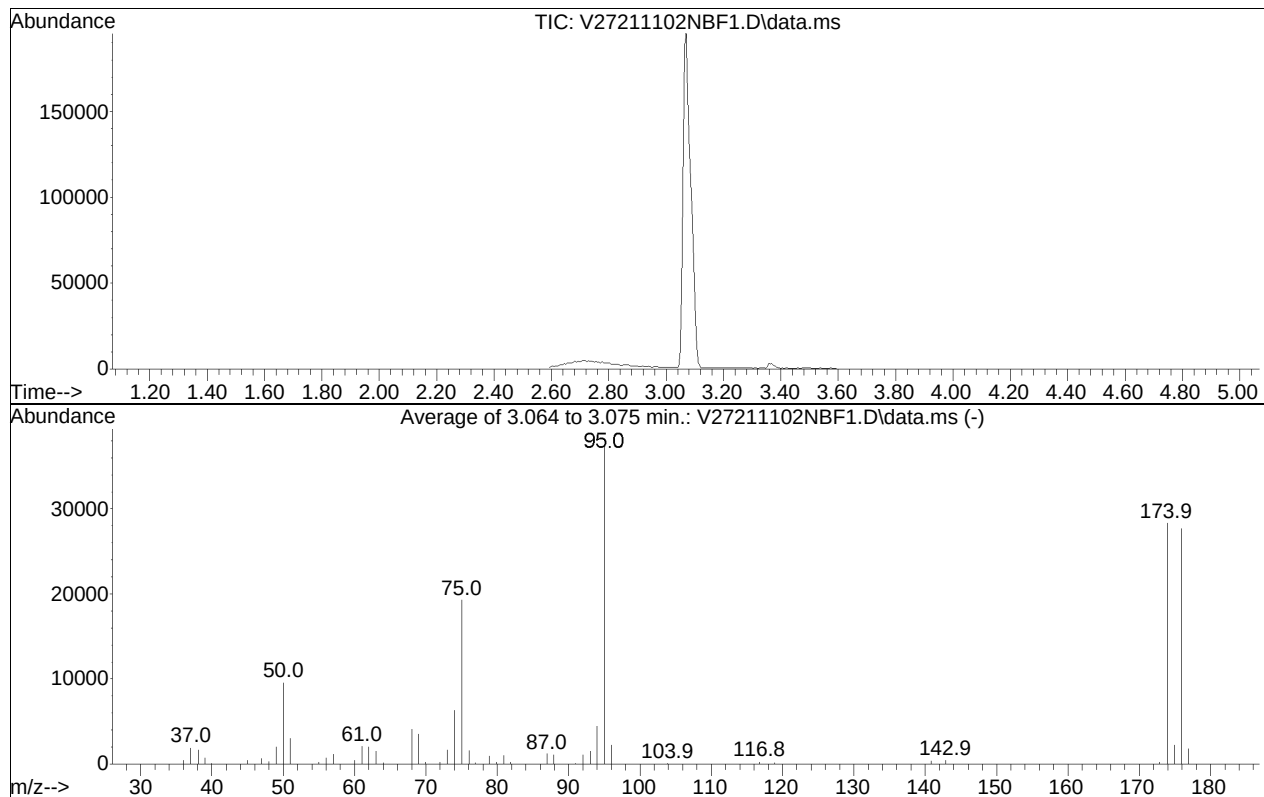
Manual Peak Response = 416715 M6

BFB

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102NBF1.D
 Acq On : 02 Nov 2021 03:56 pm
 Operator : VOA127:KJD
 Sample : WG1566511-1
 Misc : WG1566511,ICAL18360
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:48:31 2021



Spectrum Information: Average of 3.064 to 3.075 min.

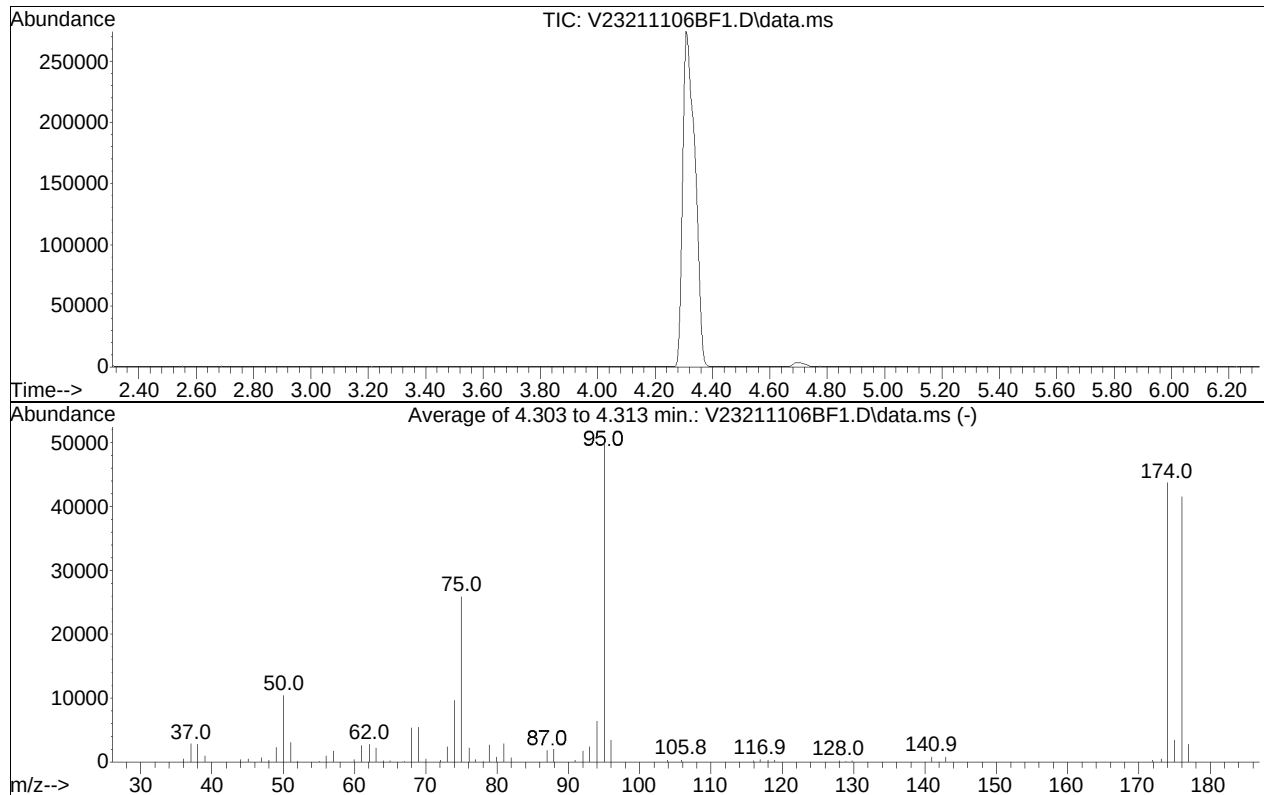
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.5	9568	PASS
75	95	30	60	51.5	19324	PASS
95	95	100	100	100.0	37549	PASS
96	95	5	9	6.1	2279	PASS
173	174	0.00	2	0.8	234	PASS
174	95	50	100	75.5	28341	PASS
175	174	5	9	7.8	2203	PASS
176	174	95	101	97.6	27656	PASS
177	176	5	9	6.4	1780	PASS

BFB

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106BF1.D
 Acq On : 06 Nov 2021 05:32 am
 Operator : VOA123:MV
 Sample : WG1568305-1
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 21 08:44:24 2021



Spectrum Information: Average of 4.303 to 4.313 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	10415	PASS
75	95	30	60	51.9	25955	PASS
95	95	100	100	100.0	50011	PASS
96	95	5	9	7.0	3513	PASS
173	174	0.00	2	1.2	517	PASS
174	95	50	100	87.4	43733	PASS
175	174	5	9	7.9	3475	PASS
176	174	95	101	95.1	41584	PASS
177	176	5	9	6.7	2781	PASS

Volatiles Raw QC Data

Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N05.D
 Acq On : 02 Nov 2021 05:40 pm
 Operator : VOA127:KJD
 Sample : WG1566511-5,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 02 19:22:09 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.930	96	95145	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery =	83.22%		
59) Chlorobenzene-d5	8.761	117	82655	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery =	90.41%		
79) 1,4-Dichlorobenzene-d4	10.208	152	48675	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery =	100.83%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	30331	20.953	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.77%		
43) 1,2-Dichloroethane-d4	5.615	65	38753	24.162	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	120.81%		
60) Toluene-d8	7.561	98	101490	18.780	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	93.90%		
83) 4-Bromofluorobenzene	9.553	95	44760	19.421	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.10%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.227	50	627	0.194	ug/L #	60
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
15) Methylene chloride	2.716	84	1571	Below Cal		83
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	4.058	43	57	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N05.D
 Acq On : 02 Nov 2021 05:40 pm
 Operator : VOA127:KJD
 Sample : WG1566511-5,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 02 19:22:09 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.206	43	53		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.608	92	1383	0.375	ug/L	88
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.599	43	77		N.D.	
73) Chlorobenzene	8.777	112	390	0.097	ug/L #	1
74) Ethylbenzene	8.803	91	634	0.090	ug/L #	59
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.898	106	408	0.140	ug/L	88
77) o Xylene	9.175	106	214	0.076	ug/L #	61
78) Styrene	9.217	104	875	0.183	ug/L	100
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.380	105	188		N.D.	
84) Bromobenzene	9.616	156	278	0.153	ug/L #	76
85) n-Propylbenzene	9.632	91	541		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.700	105	569	0.074	ug/L	91
89) 2-Chlorotoluene	9.721	91	384		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D. d	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.826	91	586	0.101	ug/L	89
94) tert-Butylbenzene	9.941	119	217		N.D.	

Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N05.D
 Acq On : 02 Nov 2021 05:40 pm
 Operator : VOA127:KJD
 Sample : WG1566511-5,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 02 19:22:09 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
97)	1,2,4-Trimethylbenzene	9.978	105	577	0.085	ug/L		91
98)	sec-Butylbenzene	0.000		0	N.D.	d		
99)	p-Isopropyltoluene	0.000		0	N.D.	d		
100)	1,3-Dichlorobenzene	10.166	146	593	0.162	ug/L		84
101)	1,4-Dichlorobenzene	10.219	146	548	0.147	ug/L	#	14
102)	p-Diethylbenzene	10.329	119	302	N.D.			
103)	n-Butylbenzene	10.366	91	509	0.080	ug/L	#	83
104)	1,2-Dichlorobenzene	10.460	146	649	0.184	ug/L		82
105)	1,2,4,5-Tetramethylben...	10.785	119	701	0.107	ug/L	#	79
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
108)	Hexachlorobutadiene	11.262	225	122	0.096	ug/L	#	47
109)	1,2,4-Trichlorobenzene	11.283	180	580	0.225	ug/L	#	91
110)	Naphthalene	11.467	128	2662	0.416	ug/L		100
111)	1,2,3-Trichlorobenzene	11.571	180	541	0.221	ug/L	#	81

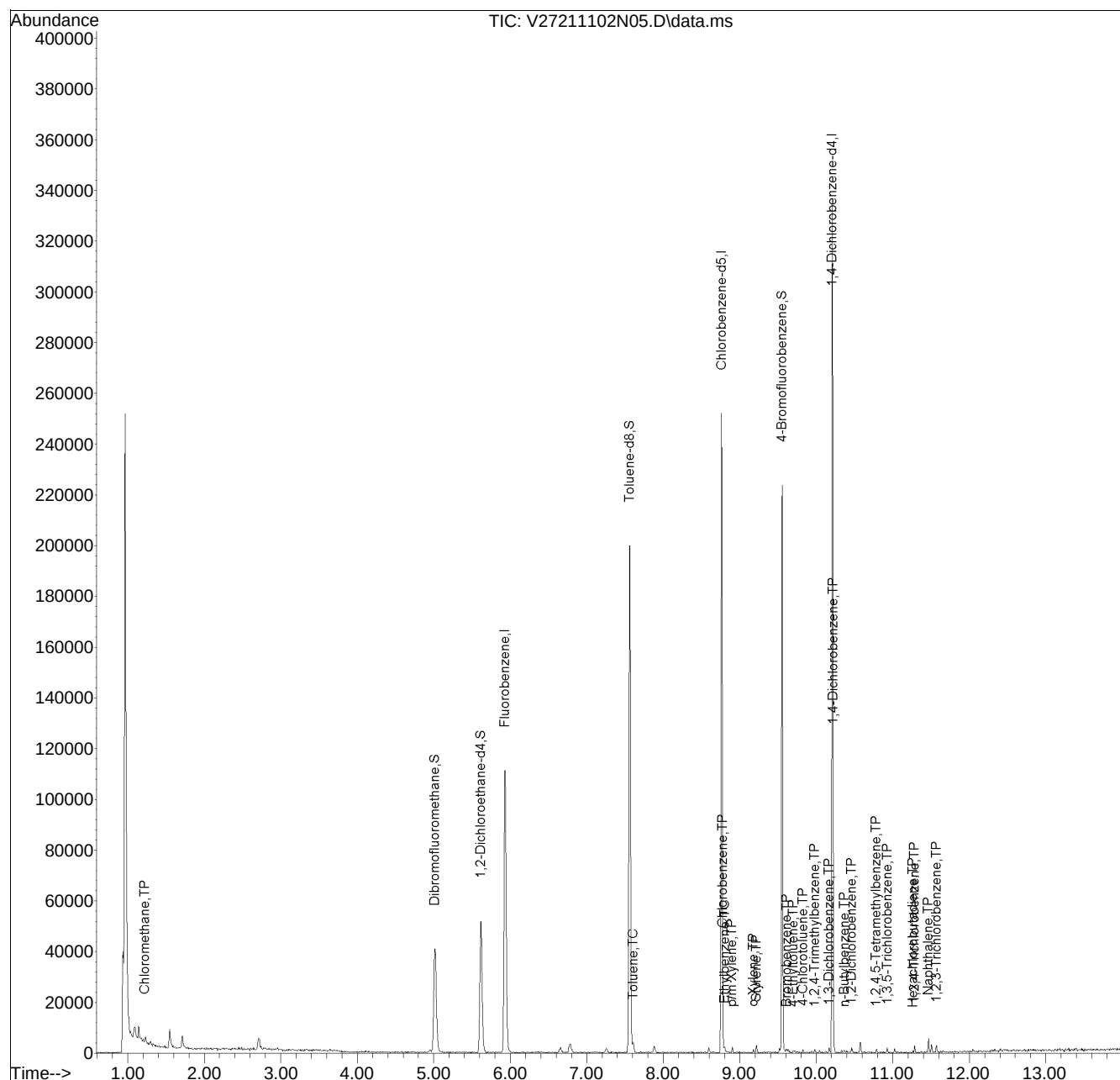
(#) = qualifier out of range (m) = manual integration (+) = signals summed

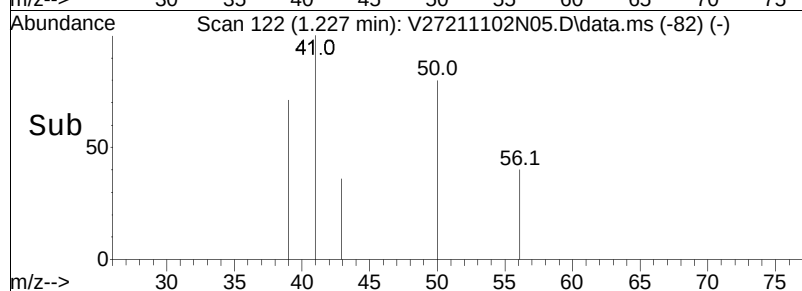
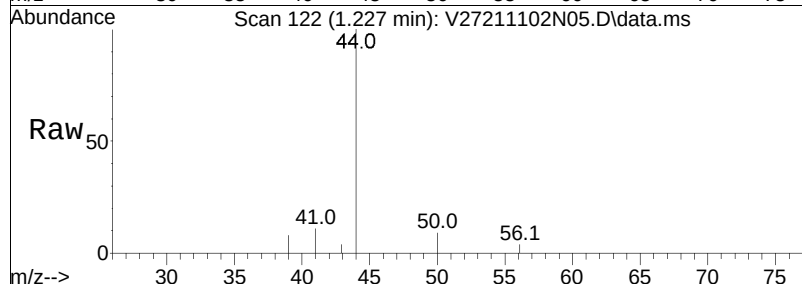
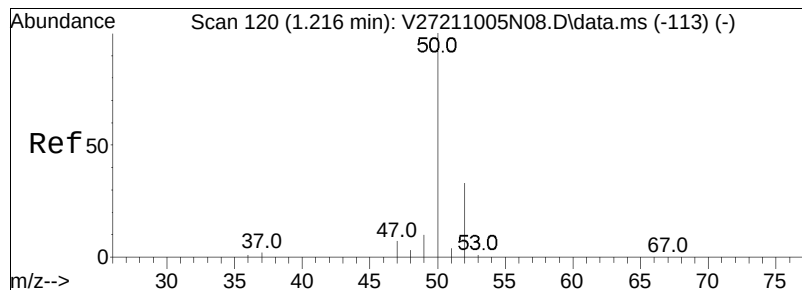
Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N05.D
 Acq On : 02 Nov 2021 05:40 pm
 Operator : VOA127:KJD
 Sample : WG1566511-5,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 02 19:22:09 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

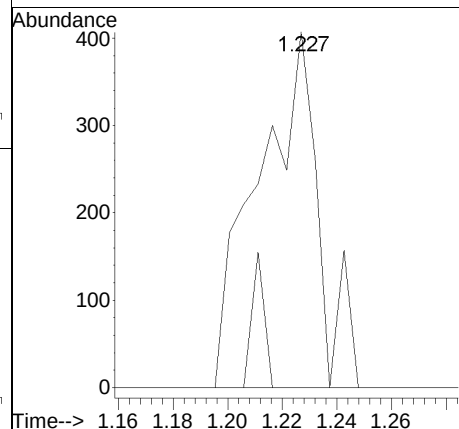
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve2.D•

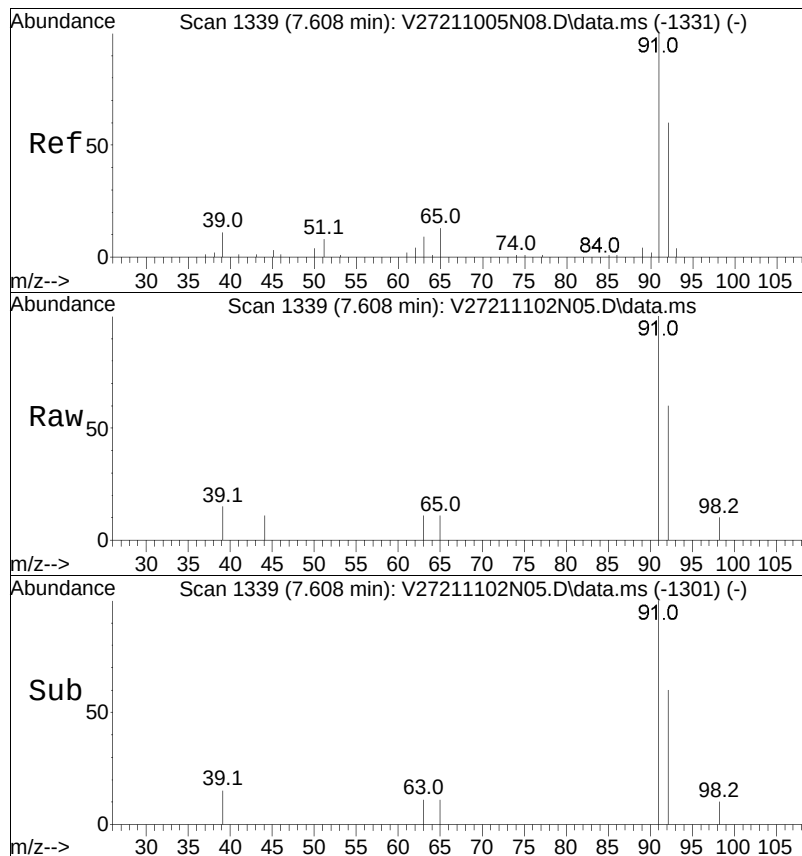




#3
Chloromethane
Concen: 0.19 ug/L
RT: 1.227 min Scan# 122
Delta R.T. 0.011 min
Lab File: V27211102N05.D
Acq: 02 Nov 2021 05:40 pm

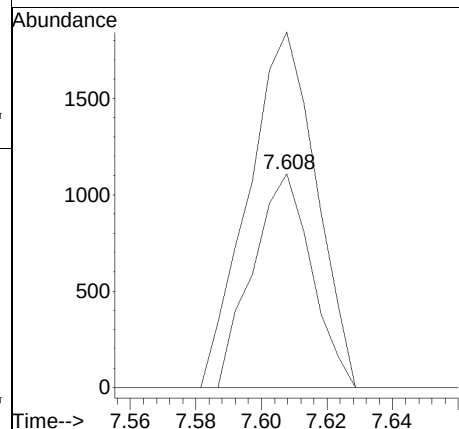
Tgt Ion	Ratio	Lower	Upper
50	100		
52	7.8	12.9	52.9#
47	0.0	0.0	28.3

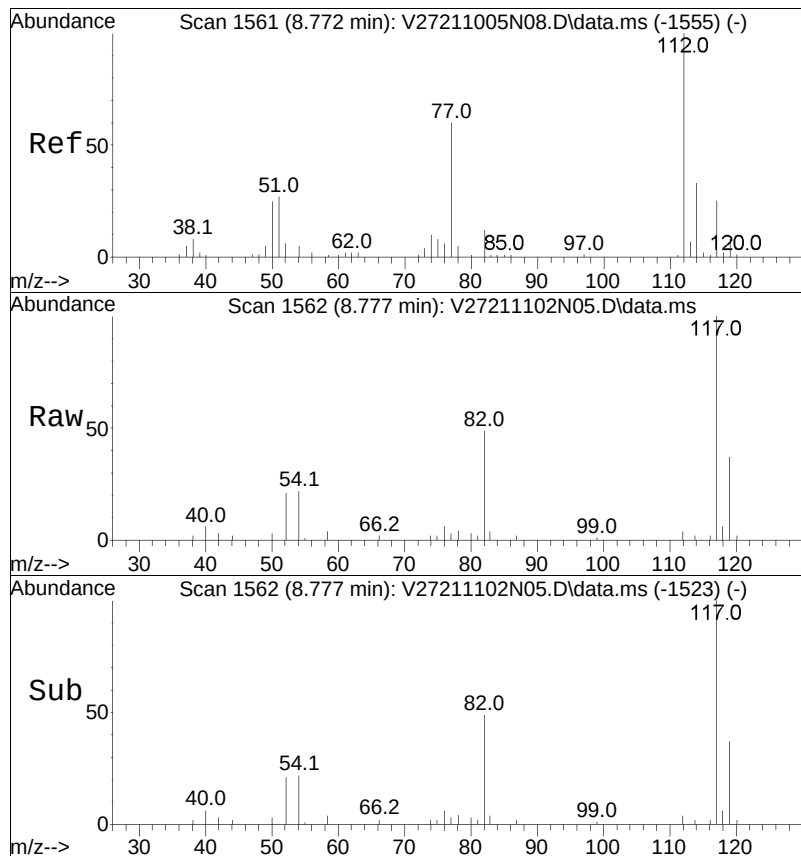




#61
Toluene
Concen: 0.37 ug/L
RT: 7.608 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V27211102N05.D
Acq: 02 Nov 2021 05:40 pm

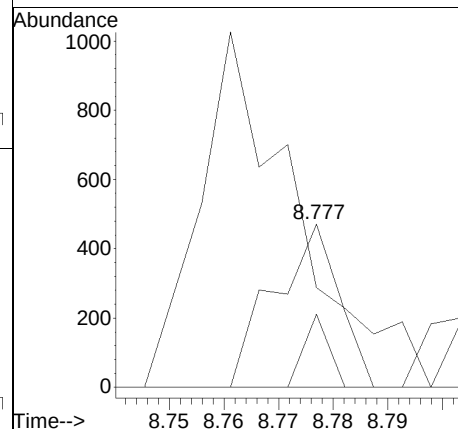
Tgt	Ion	Resp	Lower	Upper
92	100			
91	191.9	1383	139.8	209.6

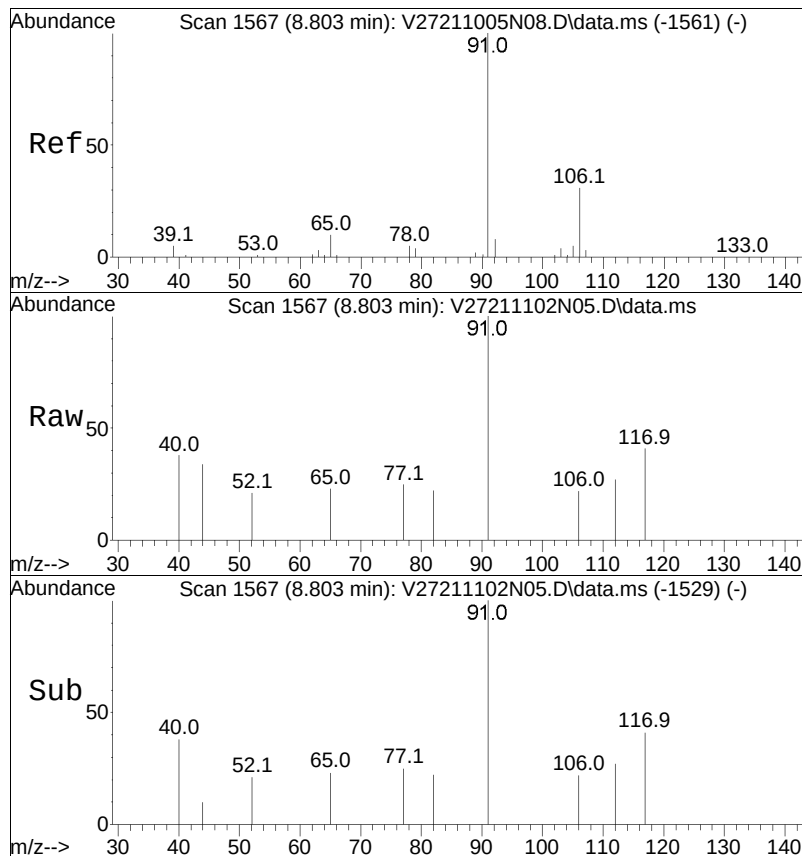




#73
 Chlorobenzene
 Concen: 0.10 ug/L
 RT: 8.777 min Scan# 1562
 Delta R.T. 0.005 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

Tgt Ion	Ratio	Lower	Upper
112	100		
77	324.1	55.4	83.0#
114	16.9	25.4	38.2#





#74

Ethylbenzene

Concen: 0.09 ug/L

RT: 8.803 min Scan# 1567

Delta R.T. 0.000 min

Lab File: V27211102N05.D

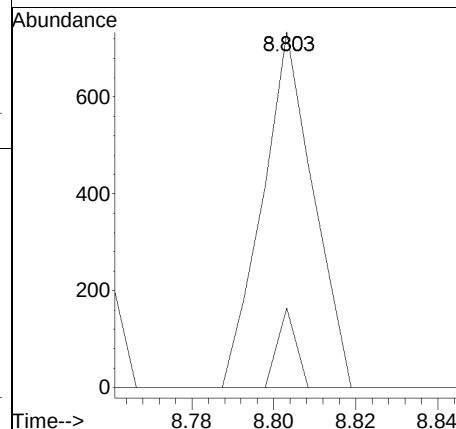
Acq: 02 Nov 2021 05:40 pm

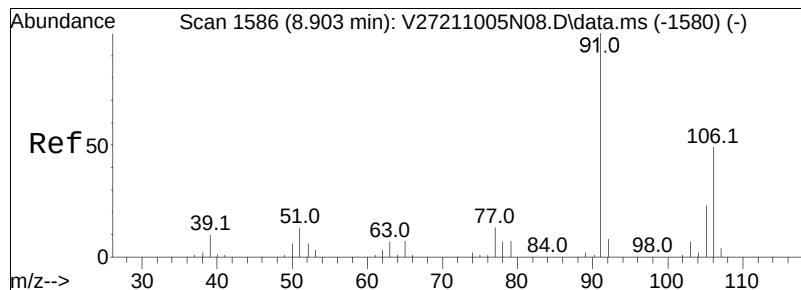
Tgt Ion: 91 Resp: 634

Ion Ratio Lower Upper

91 100

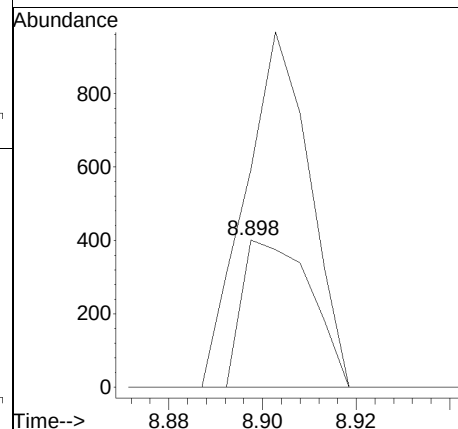
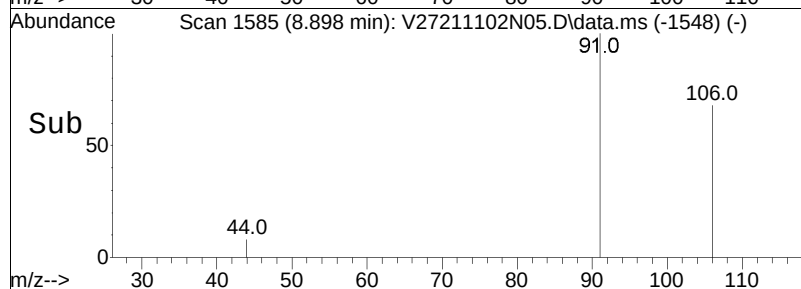
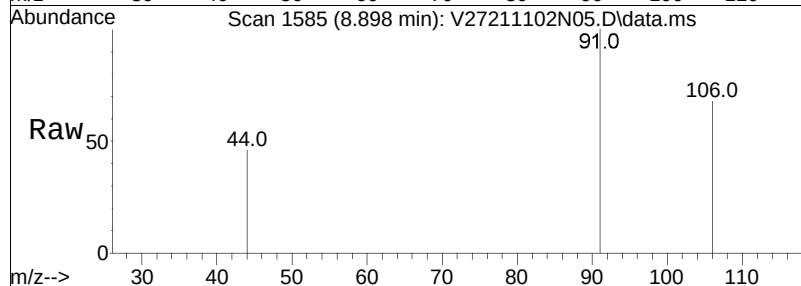
106 8.2 24.3 36.5#

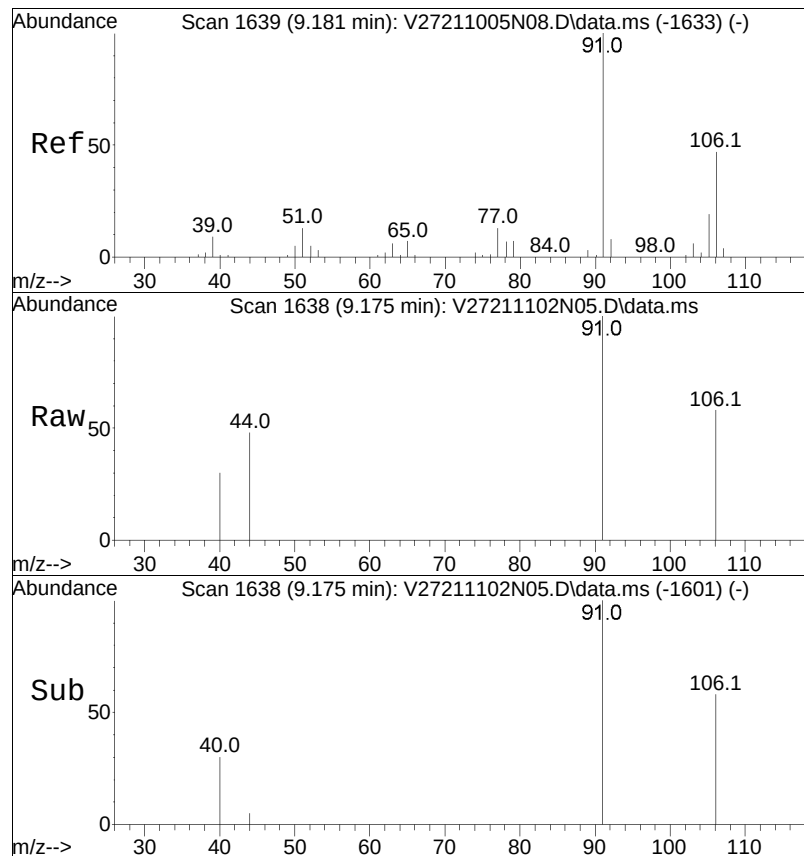




#76
 p/m Xylene
 Concen: 0.14 ug/L
 RT: 8.898 min Scan# 1585
 Delta R.T. -0.005 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

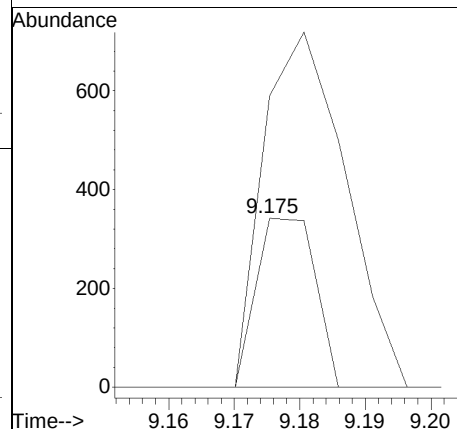
Tgt Ion	Ratio	Lower	Upper
106	100		
91	226.7	166.4	249.6

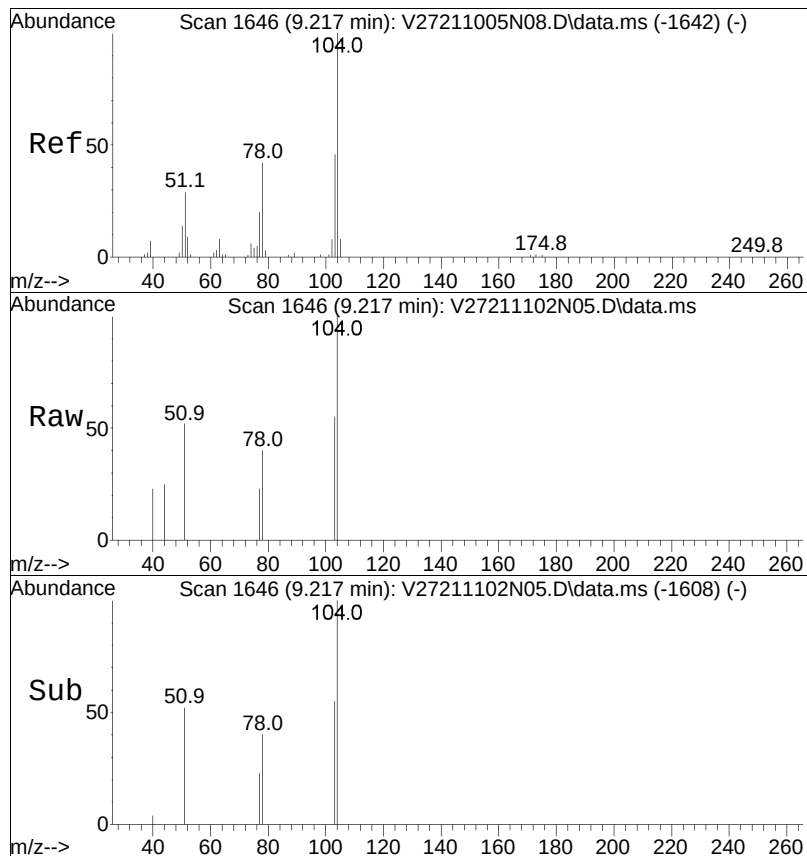




#77
 o Xylene
 Concen: 0.08 ug/L
 RT: 9.175 min Scan# 1638
 Delta R.T. -0.006 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

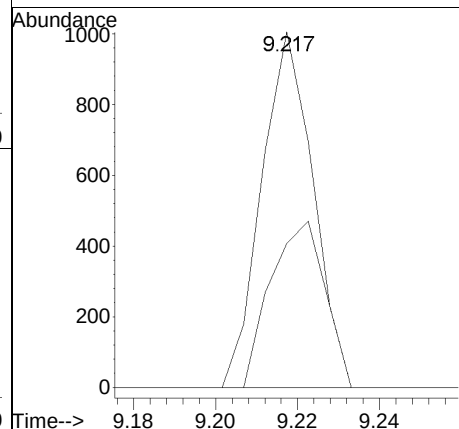
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	293.0	182.6	273.8#	

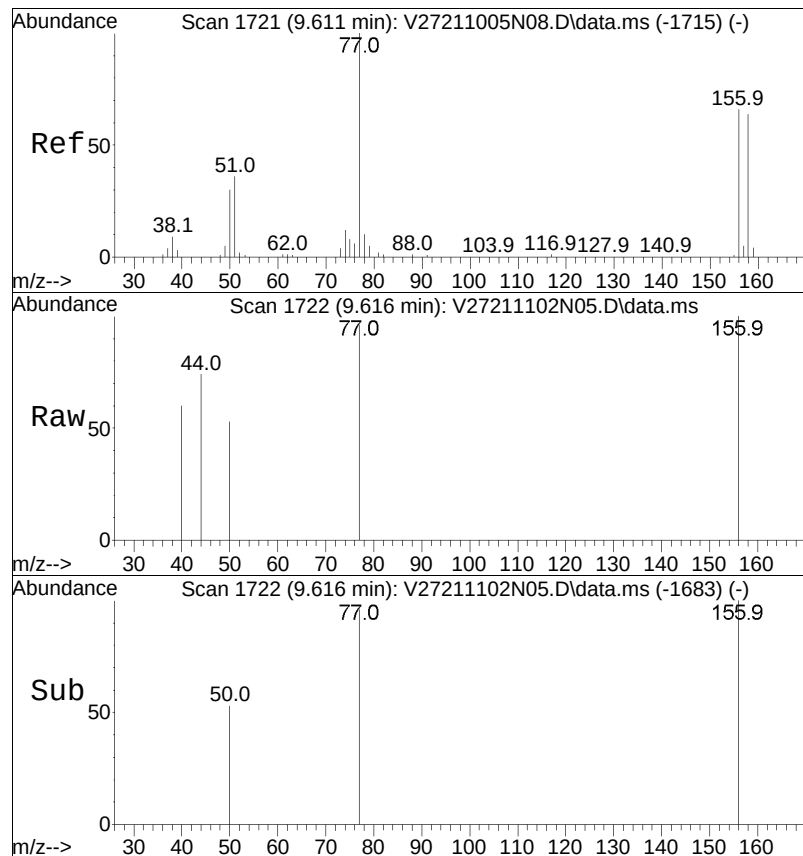




#78
 Styrene
 Concen: 0.18 ug/L
 RT: 9.217 min Scan# 1646
 Delta R.T. 0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.5	39.8	59.6





#84

Bromobenzene

Concen: 0.15 ug/L

RT: 9.616 min Scan# 1722

Delta R.T. 0.005 min

Lab File: V27211102N05.D

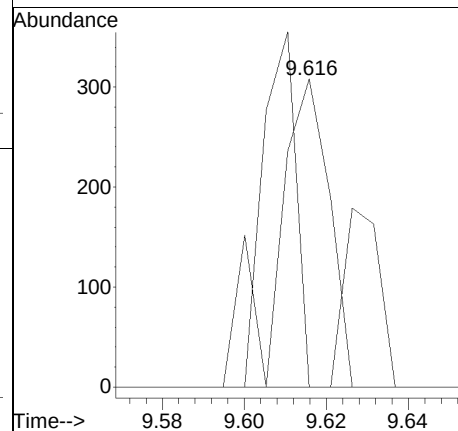
Acq: 02 Nov 2021 05:40 pm

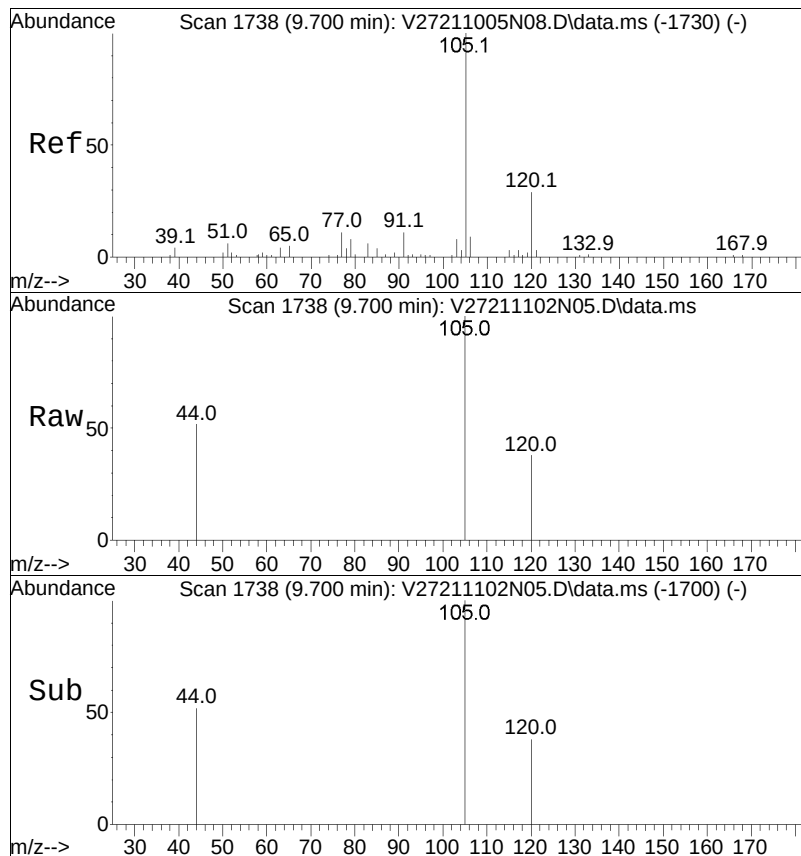
Tgt Ion:156 Resp: 278

Ion Ratio Lower Upper

156 100

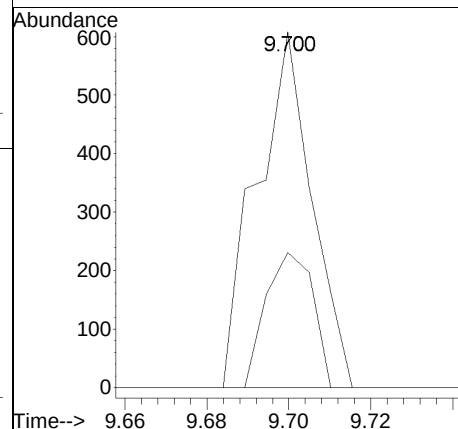
158 71.6 75.9 113.9#

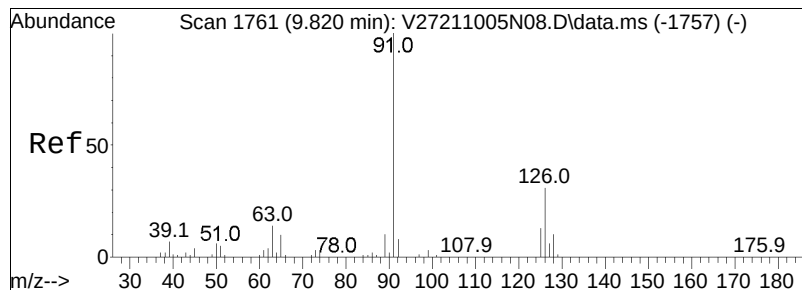




#88
 4-Ethyltoluene
 Concen: 0.07 ug/L
 RT: 9.700 min Scan# 1738
 Delta R.T. -0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

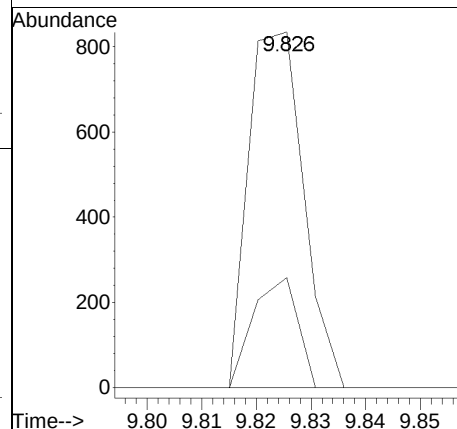
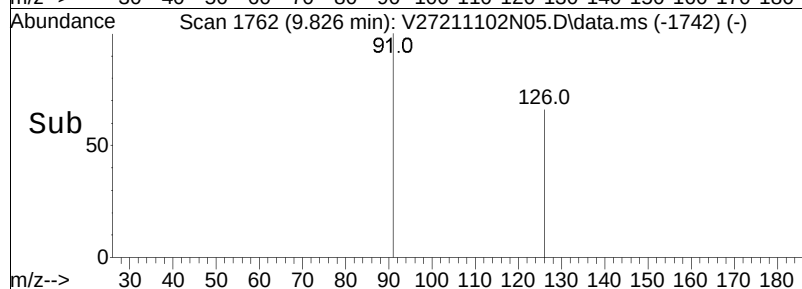
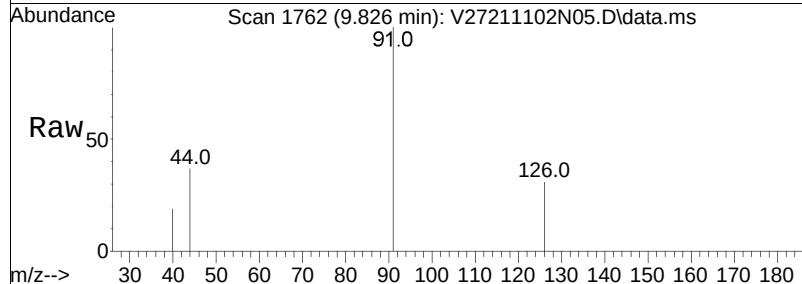
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.5	18.1	37.7

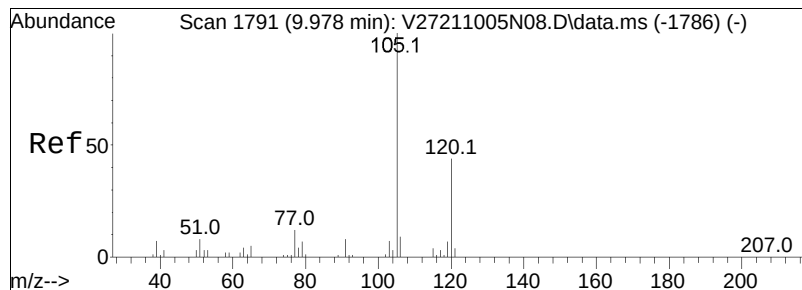




#93
 4-Chlorotoluene
 Concen: 0.10 ug/L
 RT: 9.826 min Scan# 1762
 Delta R.T. 0.006 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
126	24.9	24.6	36.8





#97

1,2,4-Trimethylbenzene

Concen: 0.08 ug/L

RT: 9.978 min Scan# 1791

Delta R.T. -0.000 min

Lab File: V27211102N05.D

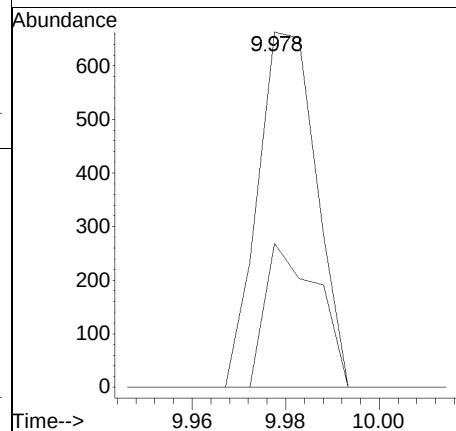
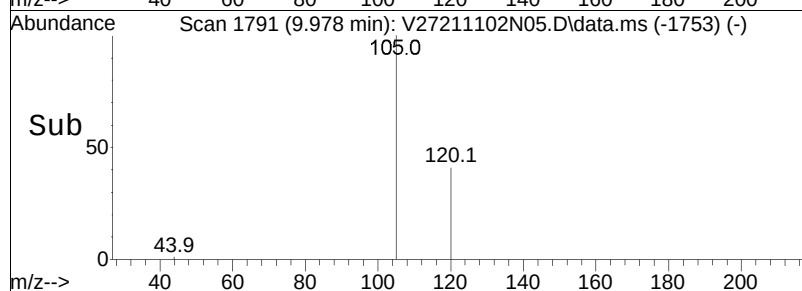
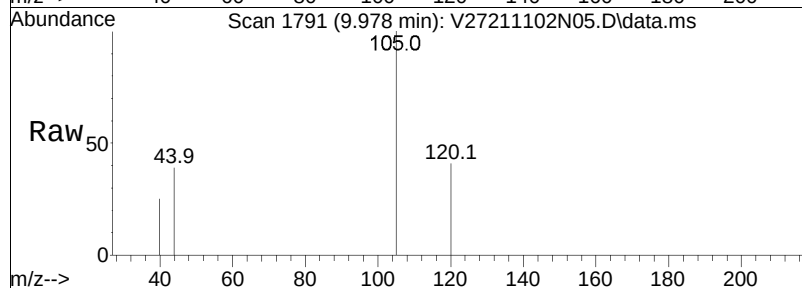
Acq: 02 Nov 2021 05:40 pm

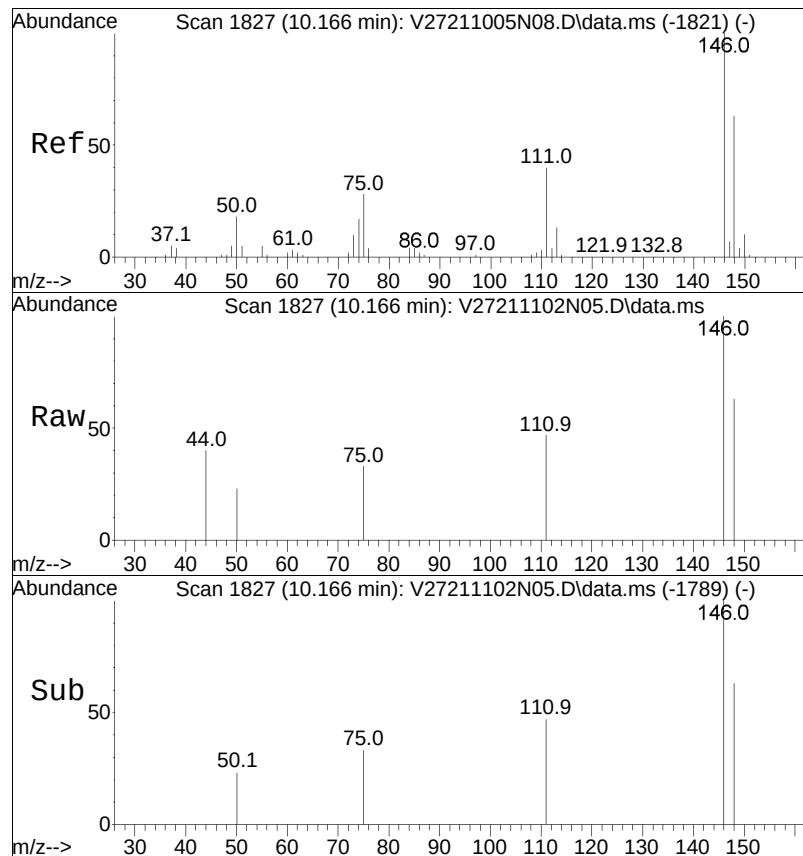
Tgt Ion:105 Resp: 577

Ion Ratio Lower Upper

105 100

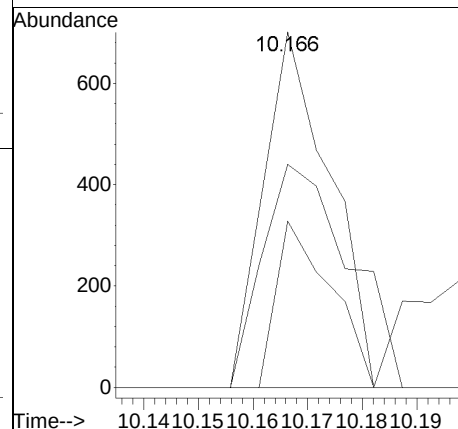
120 36.2 33.4 50.0

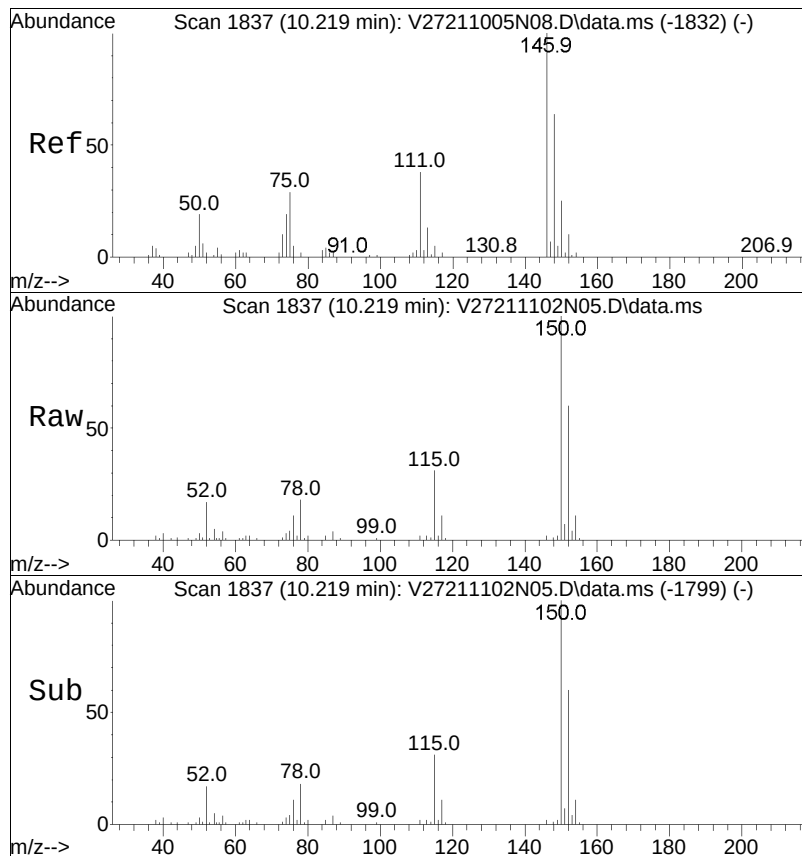




#100
 1,3-Dichlorobenzene
 Concen: 0.16 ug/L
 RT: 10.166 min Scan# 1827
 Delta R.T. 0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

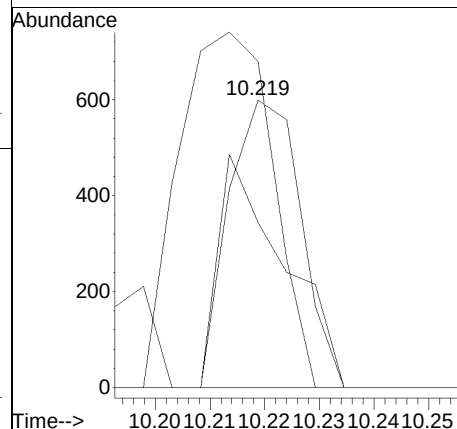
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	27.5	57.1
148	81.8	41.9	86.9

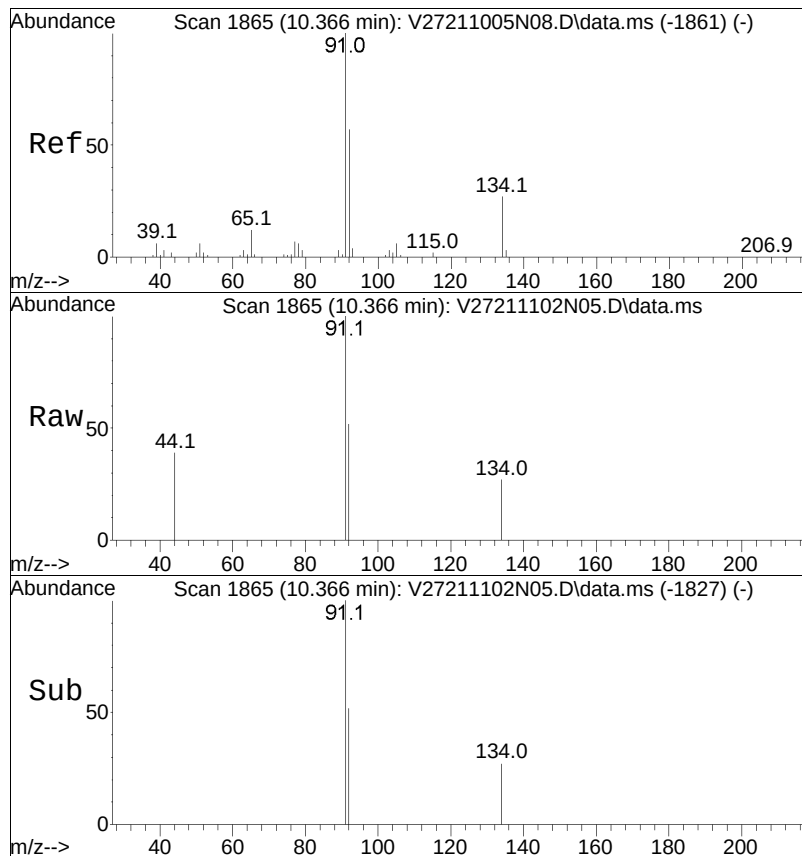




#101
 1,4-Dichlorobenzene
 Concen: 0.15 ug/L
 RT: 10.219 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

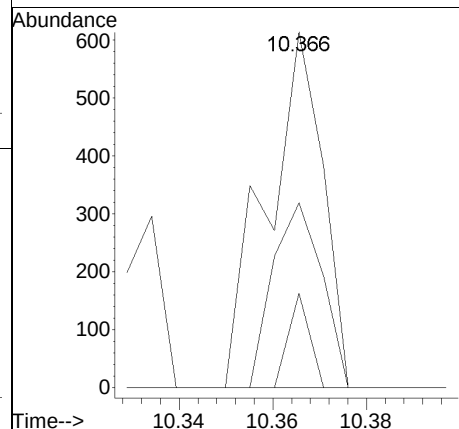
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	548		
111	161.7	32.3	48.5#	
148	73.7	49.9	74.9	

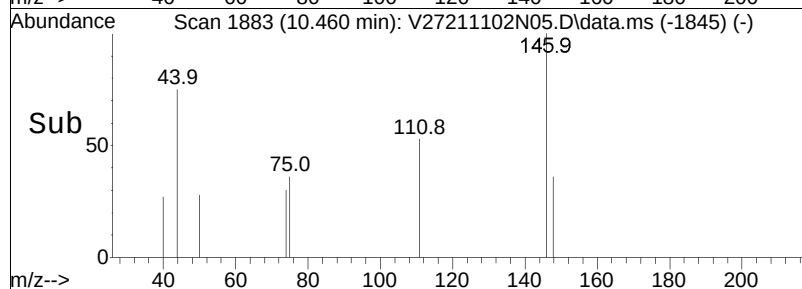
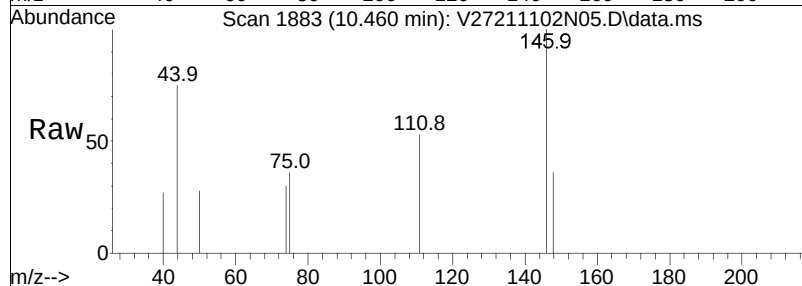
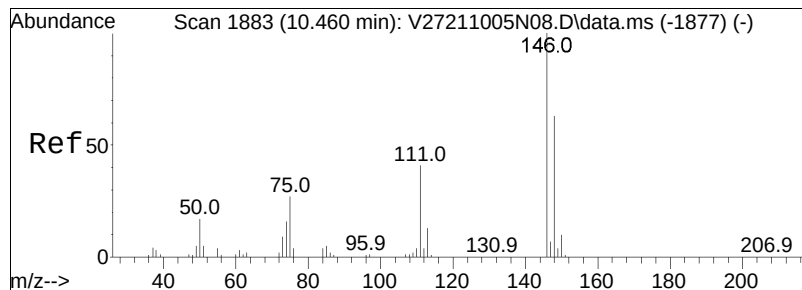




#103
 n-Butylbenzene
 Concen: 0.08 ug/L
 RT: 10.366 min Scan# 1865
 Delta R.T. -0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

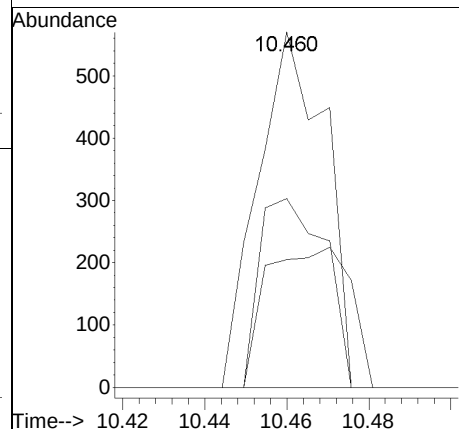
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	509		
92	45.6		43.0	64.4
134	10.0		19.6	29.4#

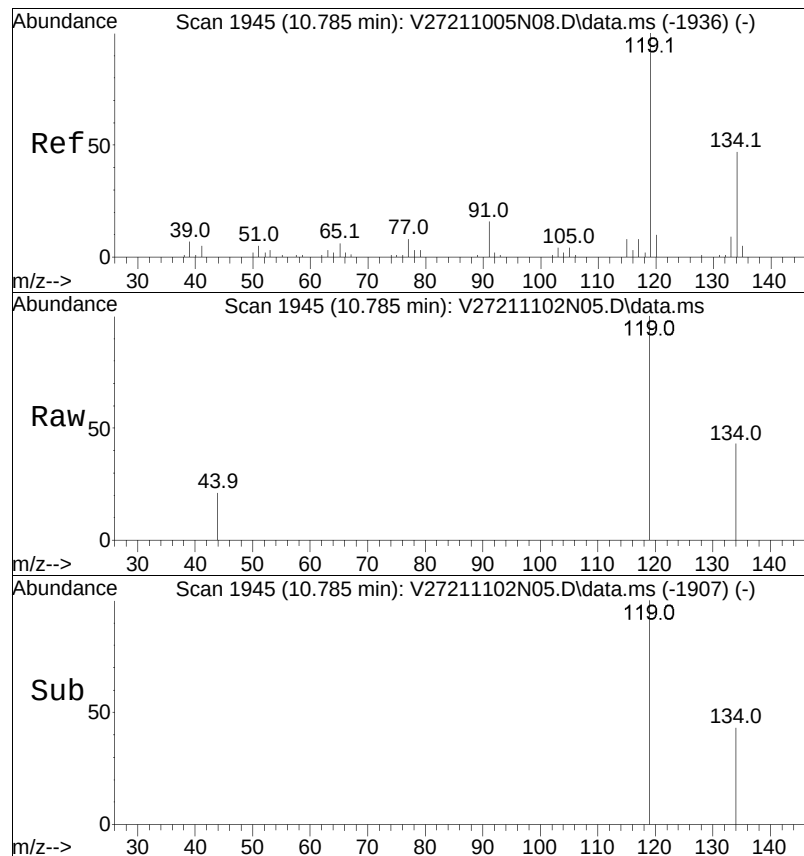




#104
 1,2-Dichlorobenzene
 Concen: 0.18 ug/L
 RT: 10.460 min Scan# 1883
 Delta R.T. -0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

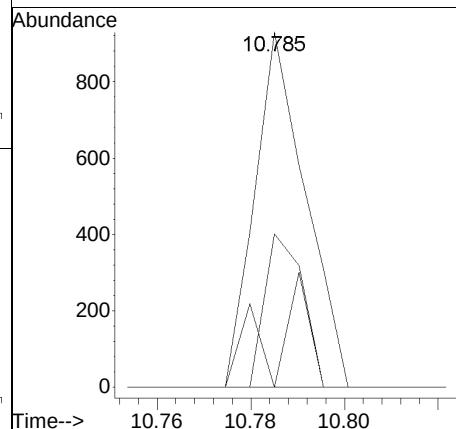
Tgt Ion:	146	Resp:	649
Ion Ratio	Lower	Upper	
146	100		
111	52.1	28.3	58.7
148	48.8	42.3	87.8

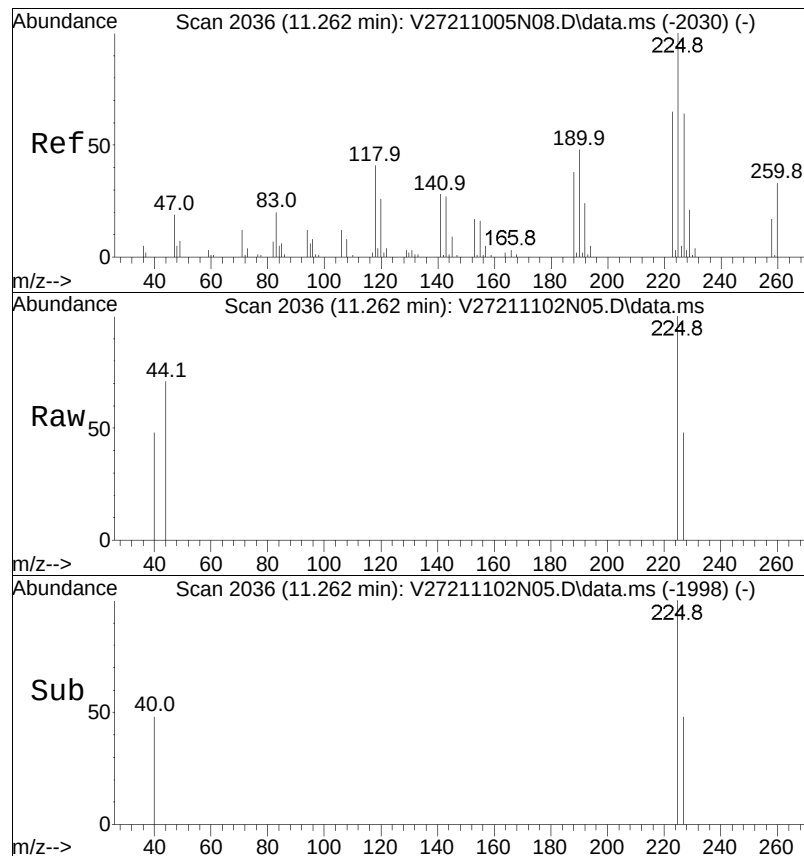




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 0.11 ug/L
 RT: 10.785 min Scan# 1945
 Delta R.T. 0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

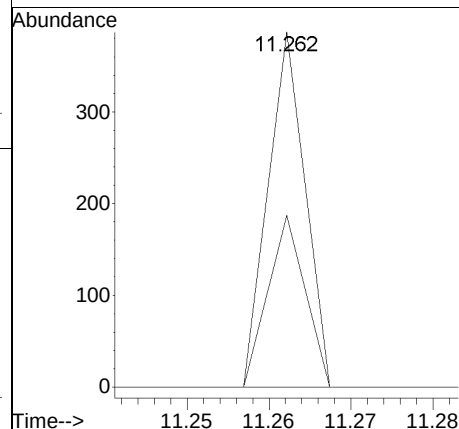
Tgt Ion	Ratio	Lower	Upper
119	100		
134	32.4	30.5	63.3
91	9.8	12.4	25.7#

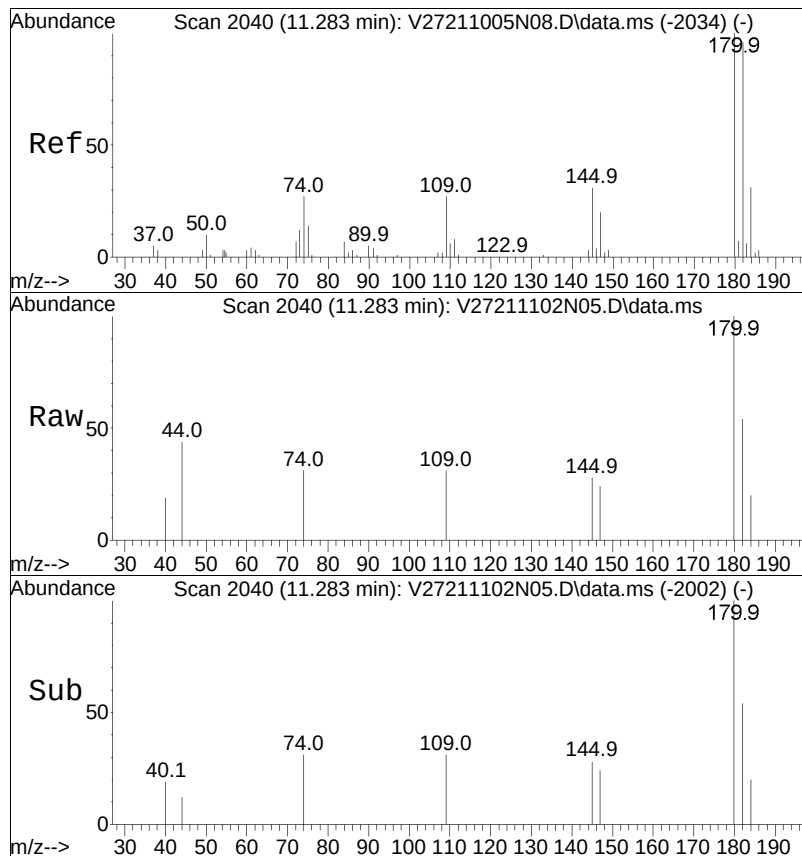




#108
 Hexachlorobutadiene
 Concen: 0.10 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. 0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

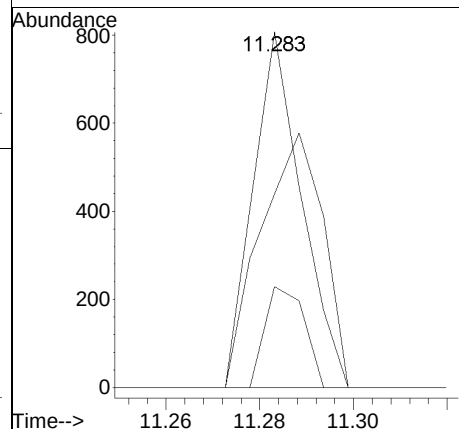
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	54.3	81.5#
227	48.4	52.4	78.6#

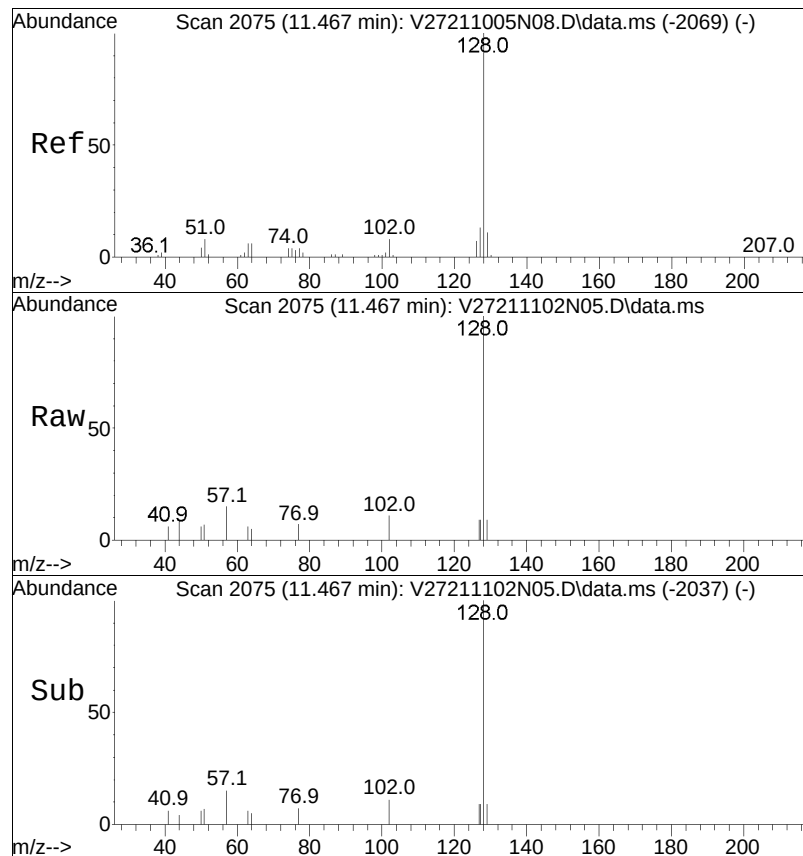




#109
 1,2,4-Trichlorobenzene
 Concen: 0.22 ug/L
 RT: 11.283 min Scan# 2040
 Delta R.T. 0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

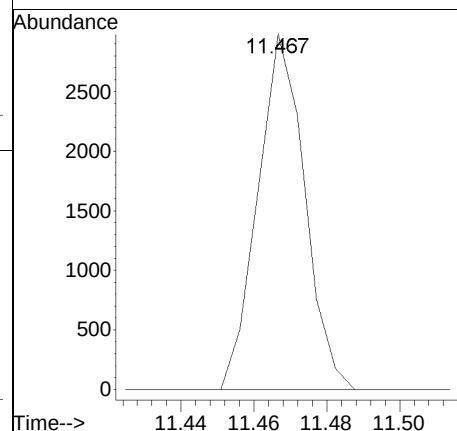
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.2	77.3	115.9
145	23.1	28.1	42.1#

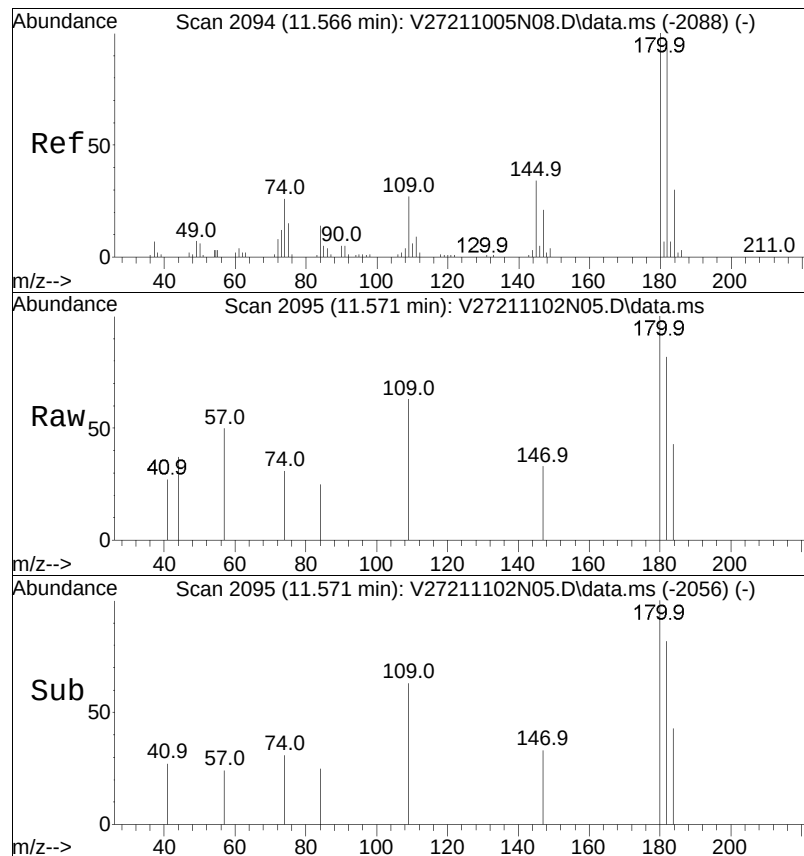




#110
 Naphthalene
 Concen: 0.42 ug/L
 RT: 11.467 min Scan# 2075
 Delta R.T. -0.000 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

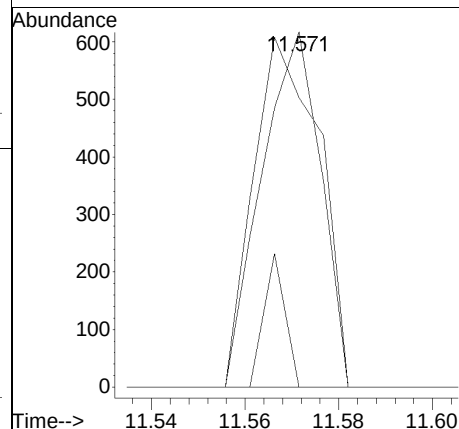
Tgt Ion:128 Resp: 2662





#111
 1,2,3-Trichlorobenzene
 Concen: 0.22 ug/L
 RT: 11.571 min Scan# 2095
 Delta R.T. 0.005 min
 Lab File: V27211102N05.D
 Acq: 02 Nov 2021 05:40 pm

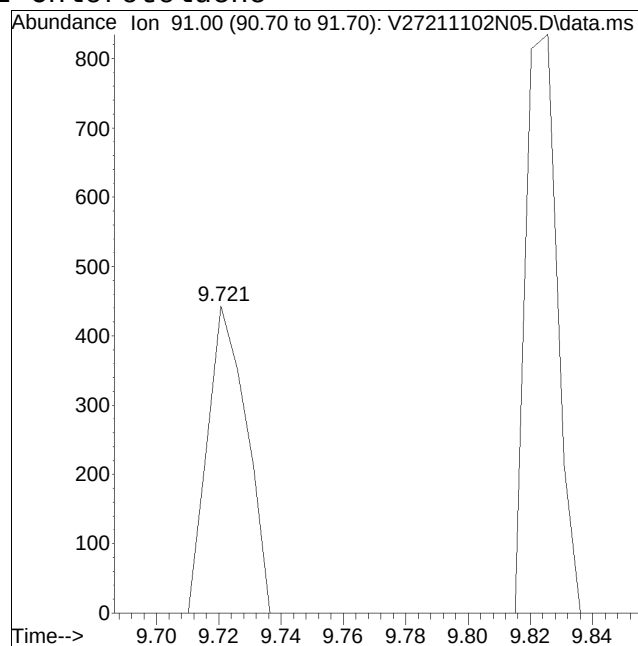
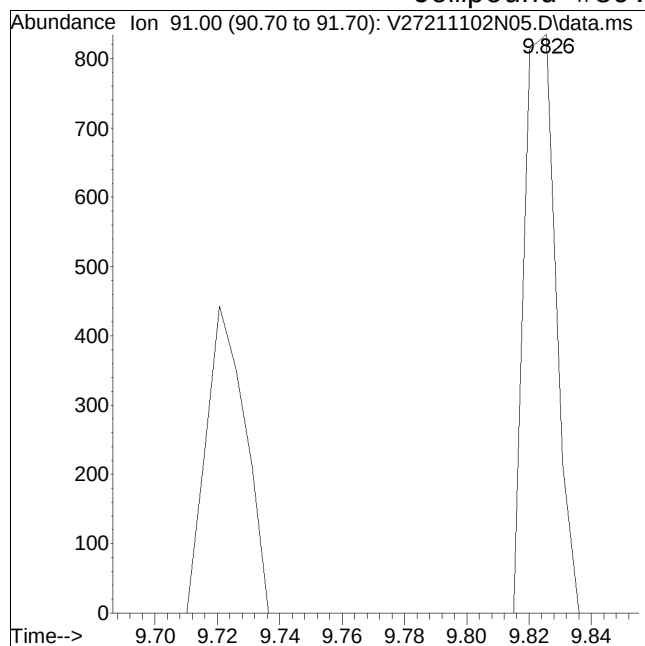
Tgt Ion:	180	Resp:	541
Ion Ratio	Lower	Upper	
180	100		
182	109.1	76.4	114.6
145	13.5	26.4	39.6#



Manual Integration Report

Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211102N05.D Operator : VOA127:KJD
Date Inj'd : 11/2/2021 5:40 pm Instrument : VOA127
Sample : WG1566511-5,31,5,5 Quant Date : 11/2/2021 7:17 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 586

Manual Peak Response = 384 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A04.D
 Acq On : 06 Nov 2021 07:20 am
 Operator : VOA123:MV
 Sample : WG1568305-5,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 10:05:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.723	96	194682	20.000	ug/L	-0.01
Standard Area 1 = 207736			Recovery =	93.72%		
59) Chlorobenzene-d5	9.231	117	144234	20.000	ug/L	0.00
Standard Area 1 = 157233			Recovery =	91.73%		
79) 1,4-Dichlorobenzene-d4	11.999	152	73984	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery =	81.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.926	113	54683	20.612	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.06%		
43) 1,2-Dichloroethane-d4	5.440	65	47915	20.524	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.62%		
60) Toluene-d8	7.401	98	192114	21.528	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.64%		
83) 4-Bromofluorobenzene	10.762	95	60011	21.253	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.27%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.059	94	840	0.335	ug/L	85
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
15) Methylene chloride	3.275	84	1681	0.603	ug/L	87
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A04.D
 Acq On : 06 Nov 2021 07:20 am
 Operator : VOA123:MV
 Sample : WG1568305-5,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 10:05:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.037	43	48		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.314	78	50		N.D.	
44) 1,2-Dichloroethane	5.503	62	47		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.454	92	1429	0.244	ug/L	90
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.943	43	64		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.299	91	303		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.498	106	172		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	10.107	104	475	0.681	ug/L #	73
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	d
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.292	91	49		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A04.D
 Acq On : 06 Nov 2021 07:20 am
 Operator : VOA123:MV
 Sample : WG1568305-5,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 10:05:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.596	105	197	N.D.		
98)	sec-Butylbenzene	0.000		0	N.D.	d	
99)	p-Isopropyltoluene	0.000		0	N.D.	d	
100)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
101)	1,4-Dichlorobenzene	12.020	146	232	N.D.		
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	0.000		0	N.D.	d	
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
105)	1,2,4,5-Tetramethylben...	13.043	119	535	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	13.866	180	421	0.115	ug/L #	58
110)	Naphthalene	14.160	128	1403	0.185	ug/L	100
111)	1,2,3-Trichlorobenzene	14.327	180	442	0.131	ug/L #	83

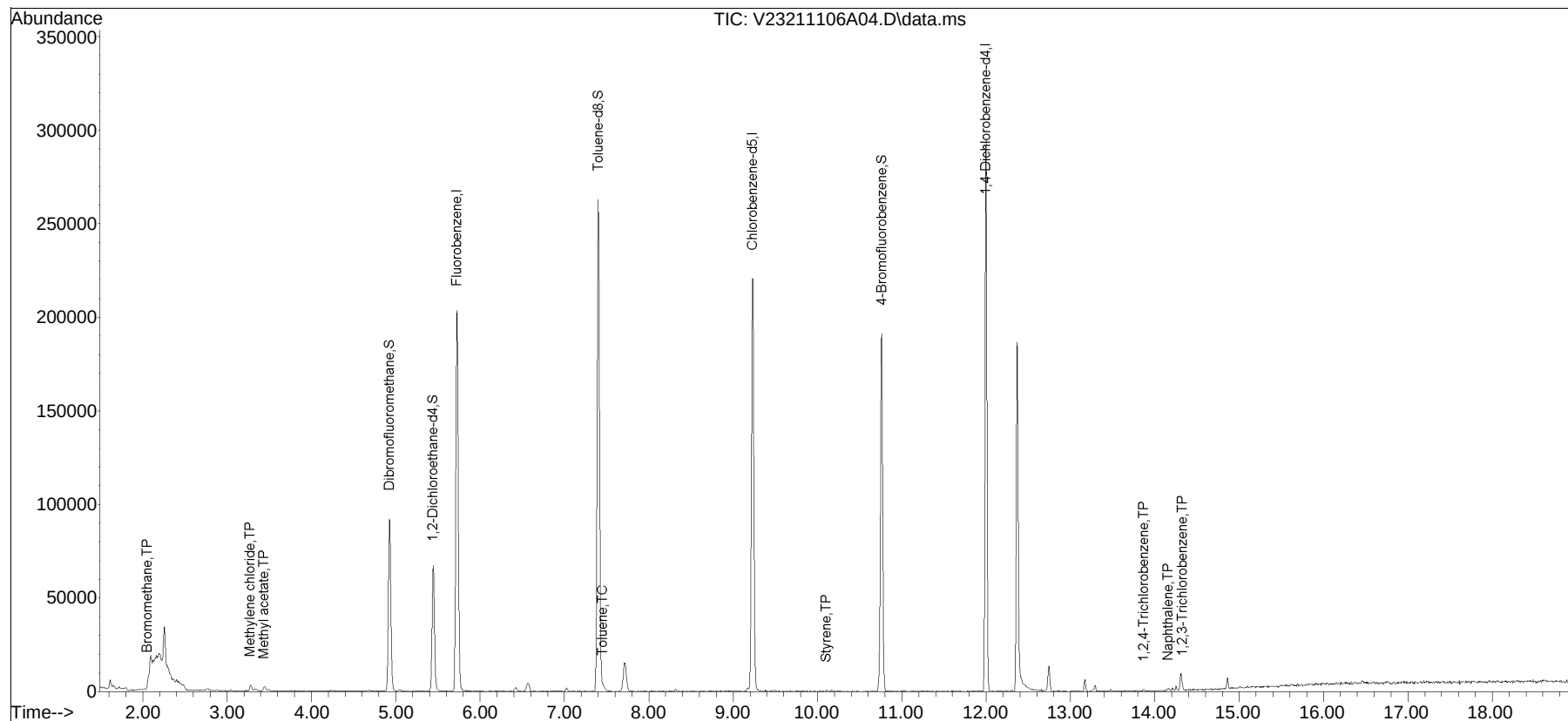
(#) = qualifier out of range (m) = manual integration (+) = signals summed

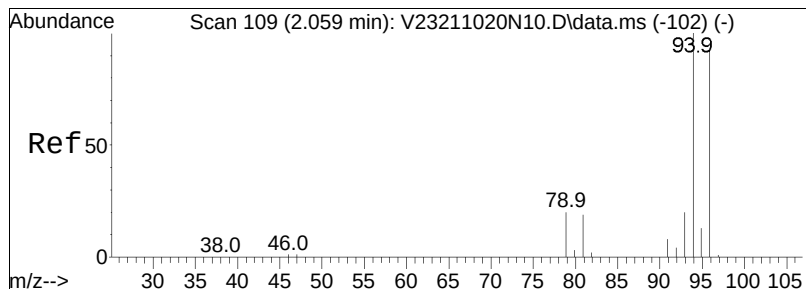
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A04.D
 Acq On : 06 Nov 2021 07:20 am
 Operator : VOA123:MV
 Sample : WG1568305-5,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 10:05:42 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V23211106A01.D•





#5

Bromomethane

Concen: 0.33 ug/L

RT: 2.059 min Scan# 109

Delta R.T. -0.001 min

Lab File: V23211106A04.D

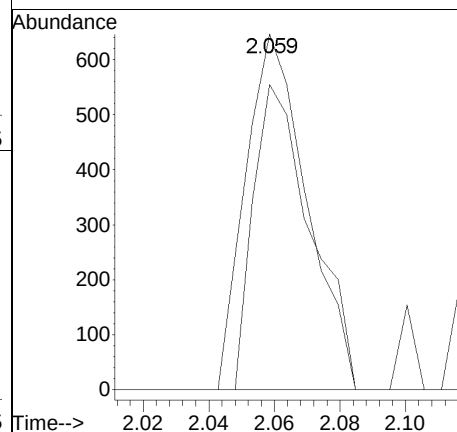
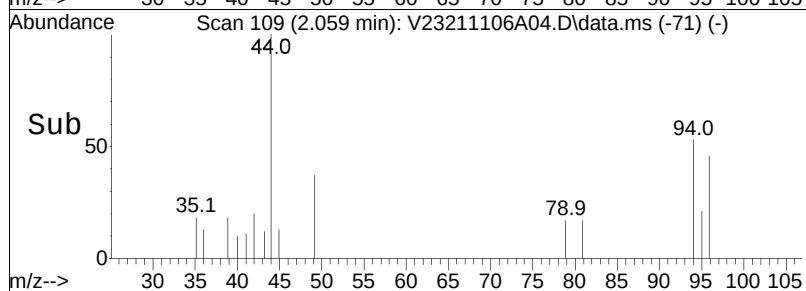
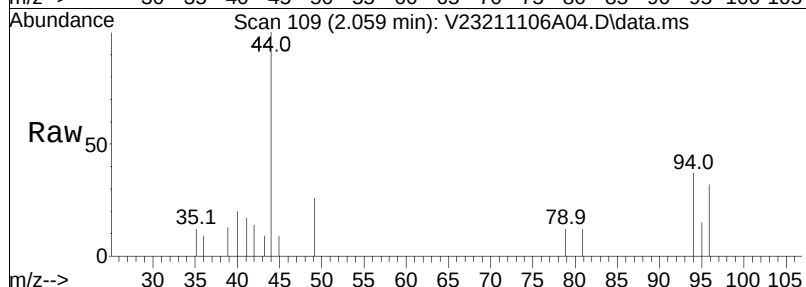
Acq: 06 Nov 2021 07:20 am

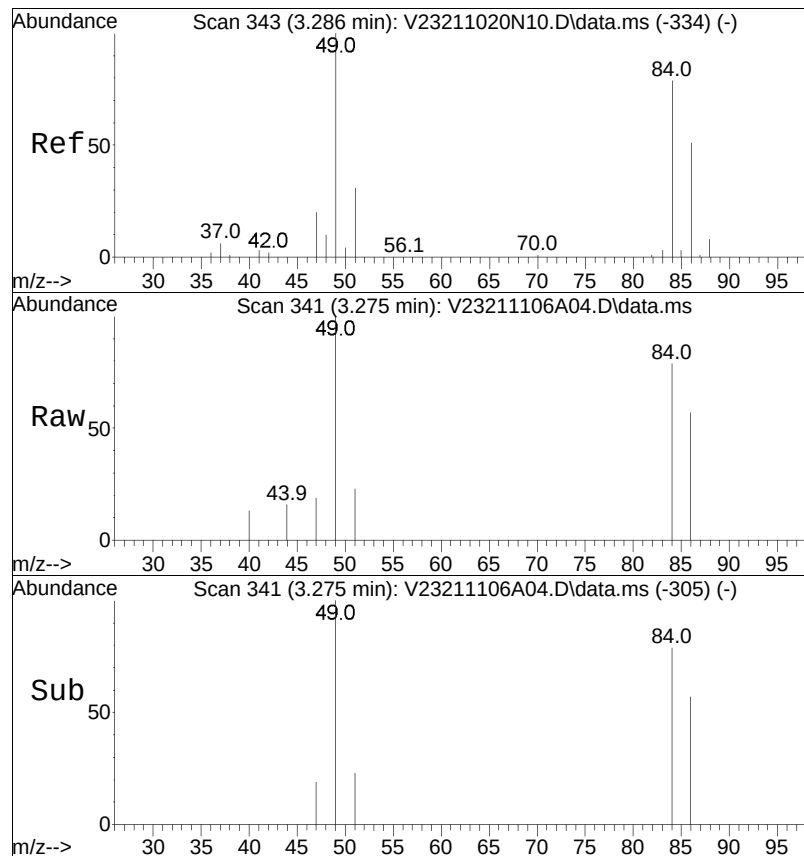
Tgt Ion: 94 Resp: 840

Ion Ratio Lower Upper

94 100

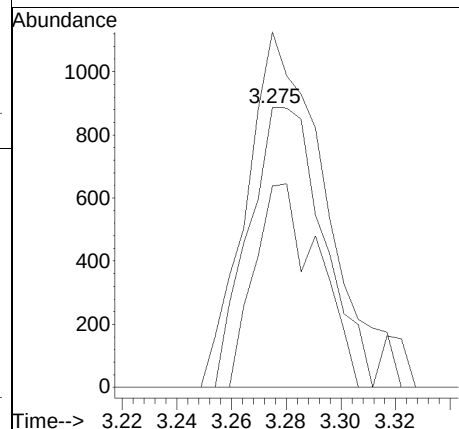
96 80.5 74.6 114.6

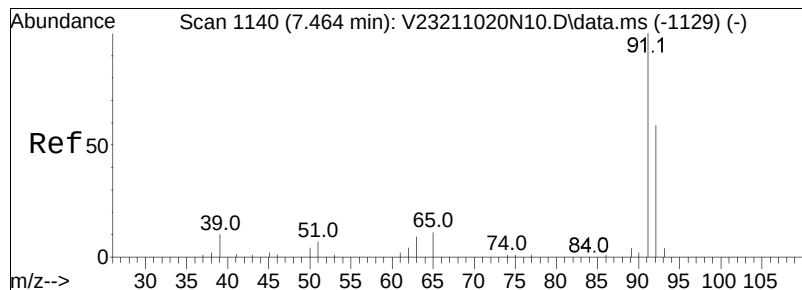




#15
 Methylene chloride
 Concen: 0.60 ug/L
 RT: 3.275 min Scan# 341
 Delta R.T. -0.011 min
 Lab File: V23211106A04.D
 Acq: 06 Nov 2021 07:20 am

Tgt Ion:	84	Resp:	1681
Ion Ratio	Lower	Upper	
84	100		
86	62.2	42.0	87.2
49	134.7	74.0	153.6





#61

Toluene

Concen: 0.24 ug/L

RT: 7.454 min Scan# 1138

Delta R.T. -0.010 min

Lab File: V23211106A04.D

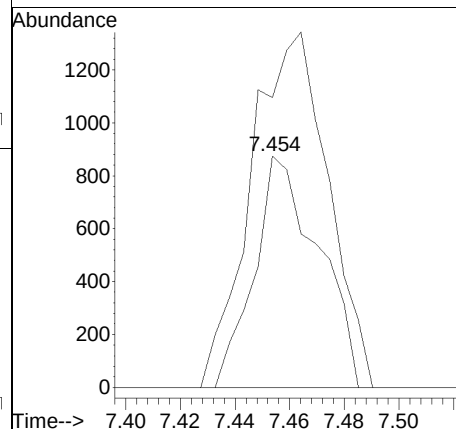
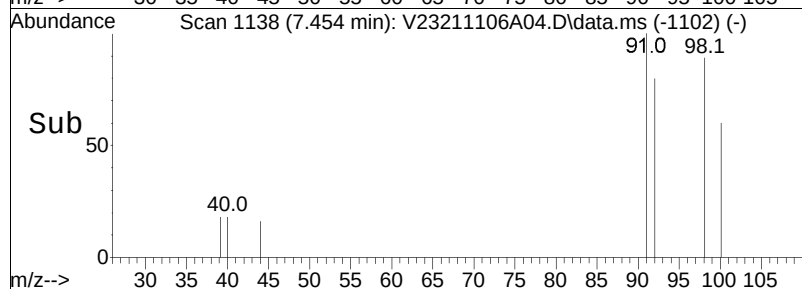
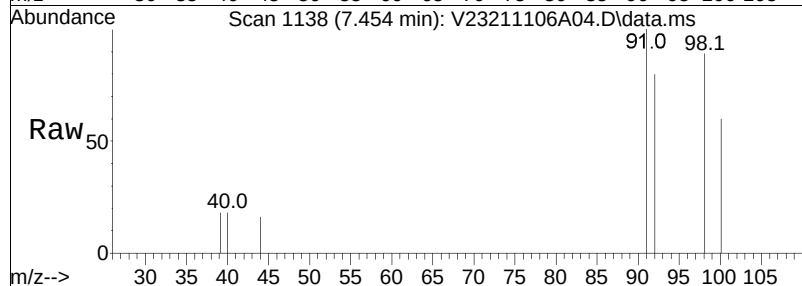
Acq: 06 Nov 2021 07:20 am

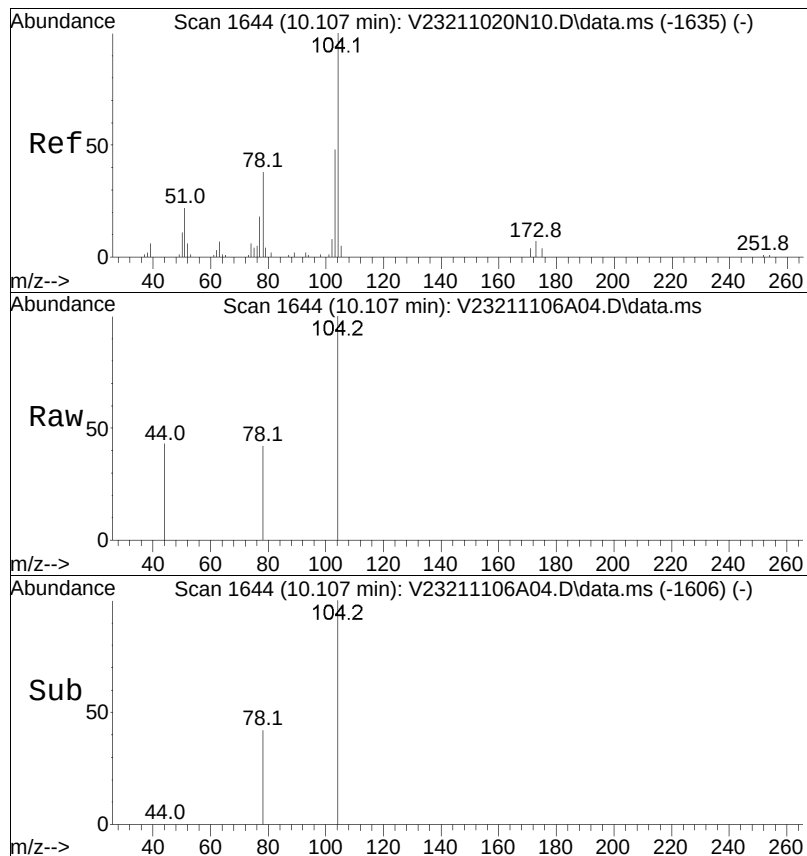
Tgt Ion: 92 Resp: 1429

Ion Ratio Lower Upper

92 100

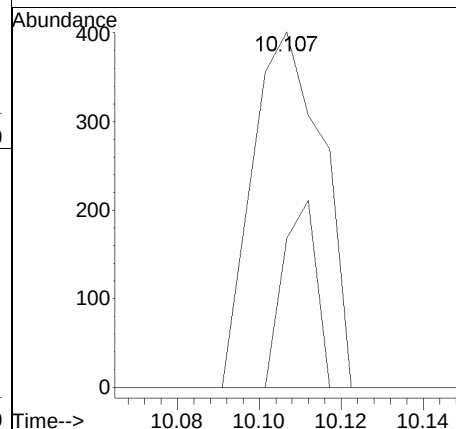
91 184.0 136.4 204.6

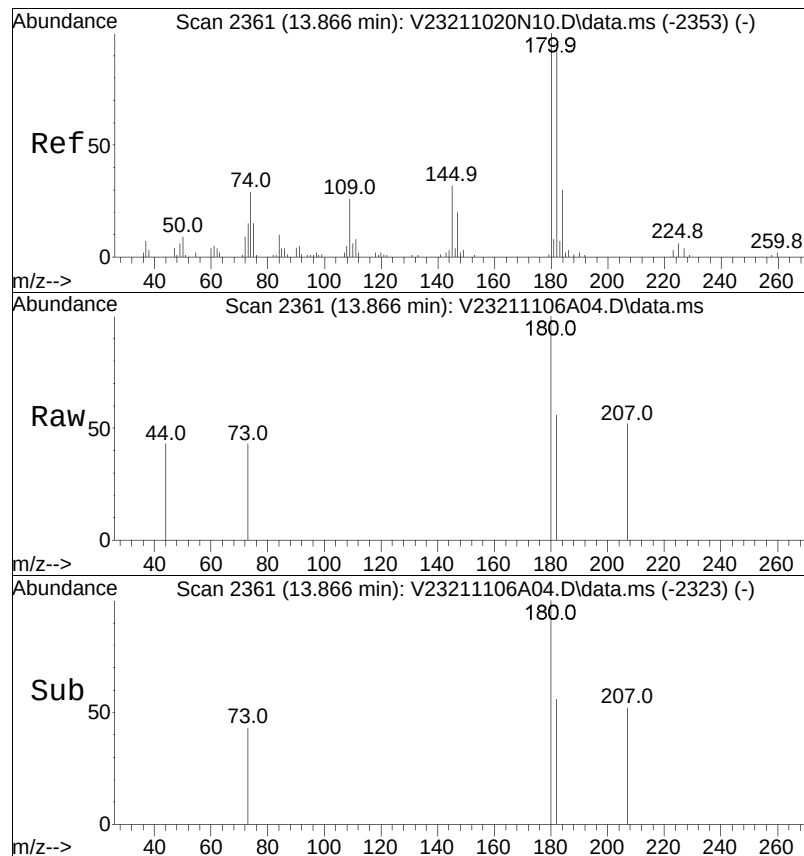




#78
 Styrene
 Concen: 0.68 ug/L
 RT: 10.107 min Scan# 1644
 Delta R.T. -0.000 min
 Lab File: V23211106A04.D
 Acq: 06 Nov 2021 07:20 am

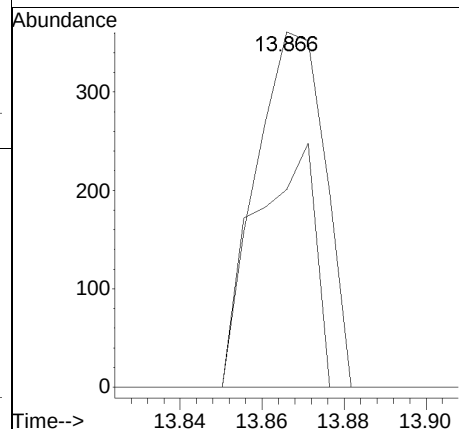
Tgt Ion	Ratio	Lower	Upper
104	100		
78	25.1	33.8	50.6

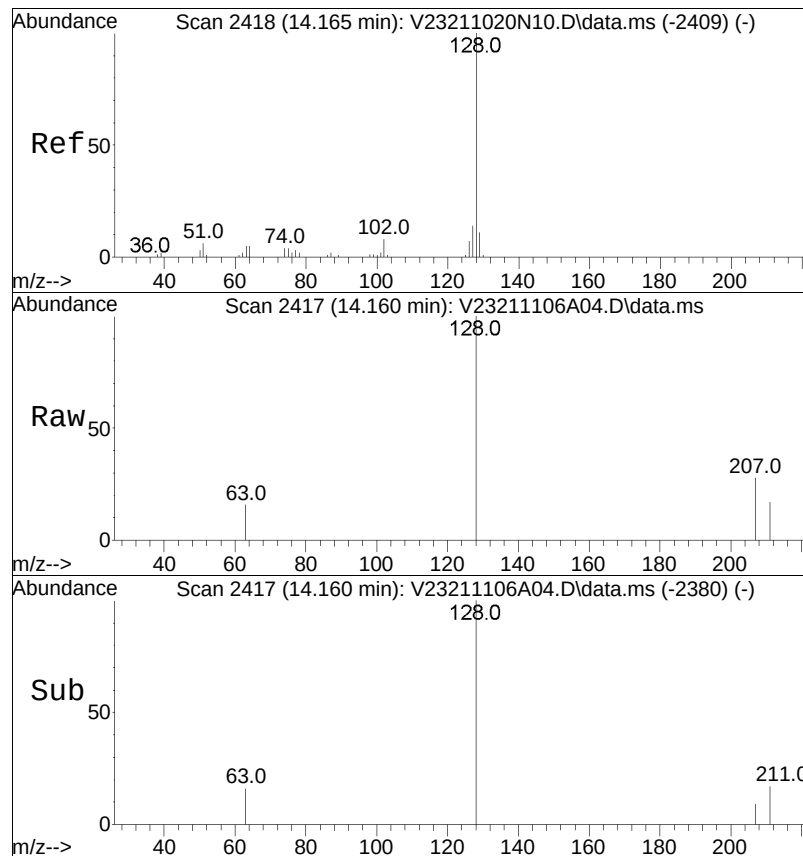




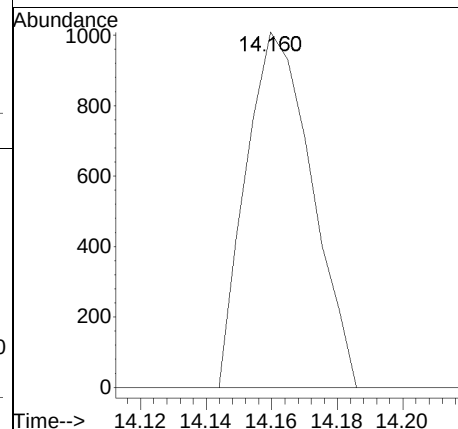
#109
 1,2,4-Trichlorobenzene
 Concen: 0.11 ug/L
 RT: 13.866 min Scan# 2361
 Delta R.T. -0.000 min
 Lab File: V23211106A04.D
 Acq: 06 Nov 2021 07:20 am

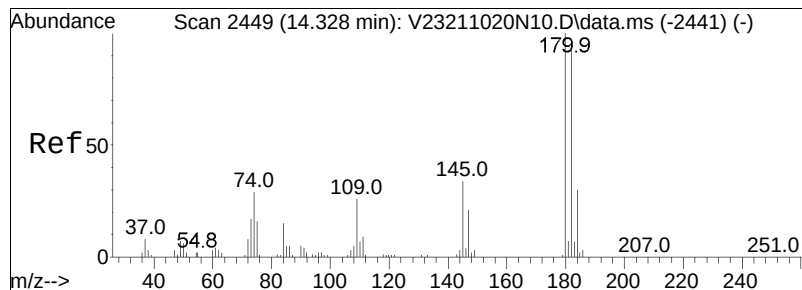
Tgt	Ion	Ratio	Lower	Upper
180	100			
182	60.1	76.2	114.4#	
145	0.0	27.4	41.2#	





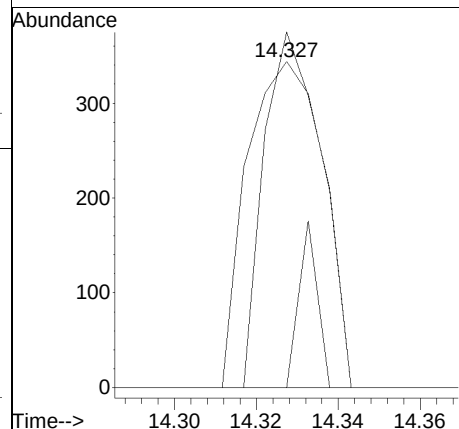
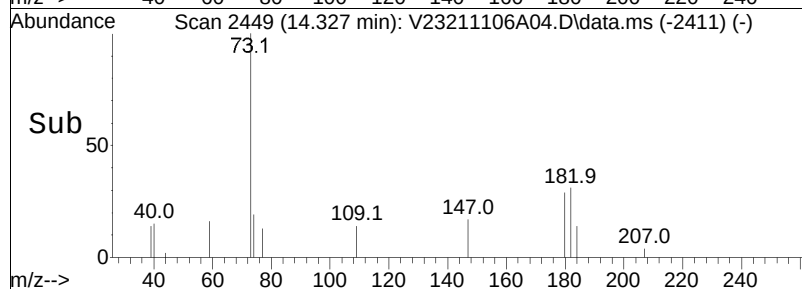
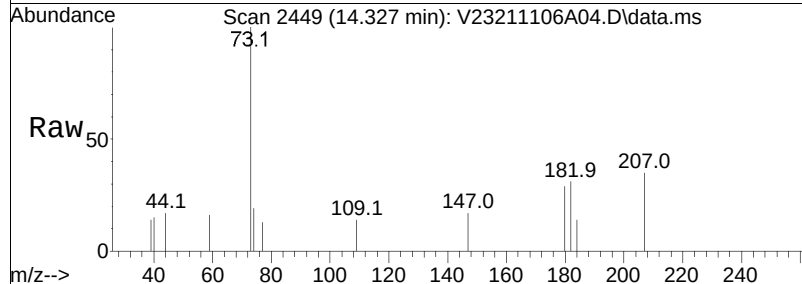
#110
 Naphthalene
 Concen: 0.18 ug/L
 RT: 14.160 min Scan# 2417
 Delta R.T. -0.005 min
 Lab File: V23211106A04.D
 Acq: 06 Nov 2021 07:20 am
 Tgt Ion:128 Resp: 1403





#111
 1,2,3-Trichlorobenzene
 Concen: 0.13 ug/L
 RT: 14.327 min Scan# 2449
 Delta R.T. -0.001 min
 Lab File: V23211106A04.D
 Acq: 06 Nov 2021 07:20 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	82.8	75.4	113.0
145	12.4	25.2	37.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA123\2021\20	Method	: V123_211020N_8260.m
Data File	: V23211106A04.D	Operator	: VOA123:MV
Date Inj'd	: 11/6/2021 7:20 am	Instrument	: VOA 123
Sample	: WG1568305-5,31,5,5	Quant Date	: 11/6/2021 11:04 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-3,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	114333	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.761	117	91419	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	10.208	152	48274	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.018	113	31836	18.302	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	91.51%	
43) 1,2-Dichloroethane-d4	5.615	65	41458	21.511	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	107.56%	
60) Toluene-d8	7.560	98	114146	19.097	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	95.49%	
83) 4-Bromofluorobenzene	9.553	95	44803	19.601	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	72298	37.931	ug/L	99
3) Chloromethane	1.211	50	151375	38.987	ug/L	99
4) Vinyl chloride	1.269	62	83980	38.675	ug/L	100
5) Bromomethane	1.510	94	34453	34.775	ug/L	97
6) Chloroethane	1.610	64	42525	28.137	ug/L	100
7) Trichlorofluoromethane	1.714	101	96486	39.964	ug/L	97
8) Ethyl ether	1.987	74	27401	28.114	ug/L	85
10) 1,1-Dichloroethene	2.139	96	47653	30.201	ug/L	98
11) Carbon disulfide	2.144	76	137872	29.417	ug/L	97
15) Methylene chloride	2.711	84	58497	33.700	ug/L	96
17) Acetone	2.789	43	20124	24.214	ug/L	96
18) trans-1,2-Dichloroethene	2.873	96	52674	29.886	ug/L	96
20) Methyl tert-butyl ether	3.025	73	150455	37.234	ug/L	92
23) 1,1-Dichloroethane	3.618	63	130169	35.511	ug/L	97
25) Acrylonitrile	3.728	53	29174	37.381	ug/L	96
27) Vinyl acetate	4.058	43	177442	45.307	ug/L	100
28) cis-1,2-Dichloroethene	4.388	96	67295	32.752	ug/L	93
29) 2,2-Dichloropropane	4.514	77	99145	36.576	ug/L	97
30) Bromochloromethane	4.651	128	31733	31.753	ug/L	86
32) Chloroform	4.792	83	115267	34.856	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-3,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.886	117	90905	42.782	ug/L	98
37) 1,1,1-Trichloroethane	4.981	97	102061	39.707	ug/L #	95
39) 2-Butanone	5.201	43	36736	31.072	ug/L #	93
40) 1,1-Dichloropropene	5.138	75	74546	36.680	ug/L	95
41) Benzene	5.437	78	212932	35.118	ug/L	95
44) 1,2-Dichloroethane	5.694	62	106348	44.347	ug/L	98
48) Trichloroethene	6.113	95	59131	37.911	ug/L	97
50) Dibromomethane	6.554	93	37831	35.125	ug/L	95
51) 1,2-Dichloropropane	6.659	63	73014	42.454	ug/L #	94
54) Bromodichloromethane	6.764	83	84850	35.715	ug/L	98
57) 1,4-Dioxane	6.989	88	32135	1558.352	ug/L	88
58) cis-1,3-Dichloropropene	7.398	75	91941	39.837	ug/L	99
61) Toluene	7.608	92	143357	35.139	ug/L	94
62) 4-Methyl-2-pentanone	7.969	58	28535	42.903	ug/L	96
63) Tetrachloroethene	7.922	166	61907	39.808	ug/L	91
65) trans-1,3-Dichloropropene	7.990	75	85635	40.555	ug/L	96
68) 1,1,2-Trichloroethane	8.111	83	38159	35.863	ug/L	89
69) Chlorodibromomethane	8.237	129	59939	40.733	ug/L	96
70) 1,3-Dichloropropane	8.310	76	83685	39.028	ug/L	99
71) 1,2-Dibromoethane	8.394	107	49155	40.799	ug/L	98
72) 2-Hexanone	8.604	43	47830	33.172	ug/L	93
73) Chlorobenzene	8.772	112	161966	36.426	ug/L	93
74) Ethylbenzene	8.803	91	284192	36.409	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	55351	40.527	ug/L	97
76) p/m Xylene	8.903	106	219116	68.174	ug/L	99
77) o Xylene	9.181	106	210585	67.996	ug/L	96
78) Styrene	9.217	104	360251	67.995	ug/L	95
80) Bromoform	9.233	173	36460	41.056	ug/L	95
82) Isopropylbenzene	9.380	105	284305	38.536	ug/L	99
84) Bromobenzene	9.611	156	69229	38.391	ug/L	98
85) n-Propylbenzene	9.632	91	339088	37.971	ug/L	97
87) 1,1,2,2-Tetrachloroethane	9.689	83	54829	34.781	ug/L	100
88) 4-Ethyltoluene	9.700	105	289774	37.934	ug/L	98
89) 2-Chlorotoluene	9.721	91	207023M6	37.535	ug/L	
90) 1,3,5-Trimethylbenzene	9.752	105	257902	38.308	ug/L	94
91) 1,2,3-Trichloropropane	9.763	75	49747	38.742	ug/L	96
92) trans-1,4-Dichloro-2-b...	9.789	53	27165	44.900	ug/L	88
93) 4-Chlorotoluene	9.820	91	217446	37.901	ug/L	97
94) tert-Butylbenzene	9.936	119	210788	38.187	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-3,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.978	105	257158	38.151	ug/L	97
98)	sec-Butylbenzene	10.040	105	311463	37.687	ug/L	99
99)	p-Isopropyltoluene	10.124	119	279767	38.532	ug/L	99
100)	1,3-Dichlorobenzene	10.166	146	139901	38.419	ug/L	98
101)	1,4-Dichlorobenzene	10.219	146	138416	37.536	ug/L	98
102)	p-Diethylbenzene	10.329	119	164339	37.778	ug/L	95
103)	n-Butylbenzene	10.366	91	247001	39.013	ug/L	98
104)	1,2-Dichlorobenzene	10.460	146	129738	37.146	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.785	119	250632	38.419	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.916	155	11558	37.990	ug/L	94
108)	Hexachlorobutadiene	11.262	225	50003	39.716	ug/L	97
109)	1,2,4-Trichlorobenzene	11.283	180	100796	39.402	ug/L	99
110)	Naphthalene	11.467	128	232834	36.694	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	92923	38.280	ug/L	97

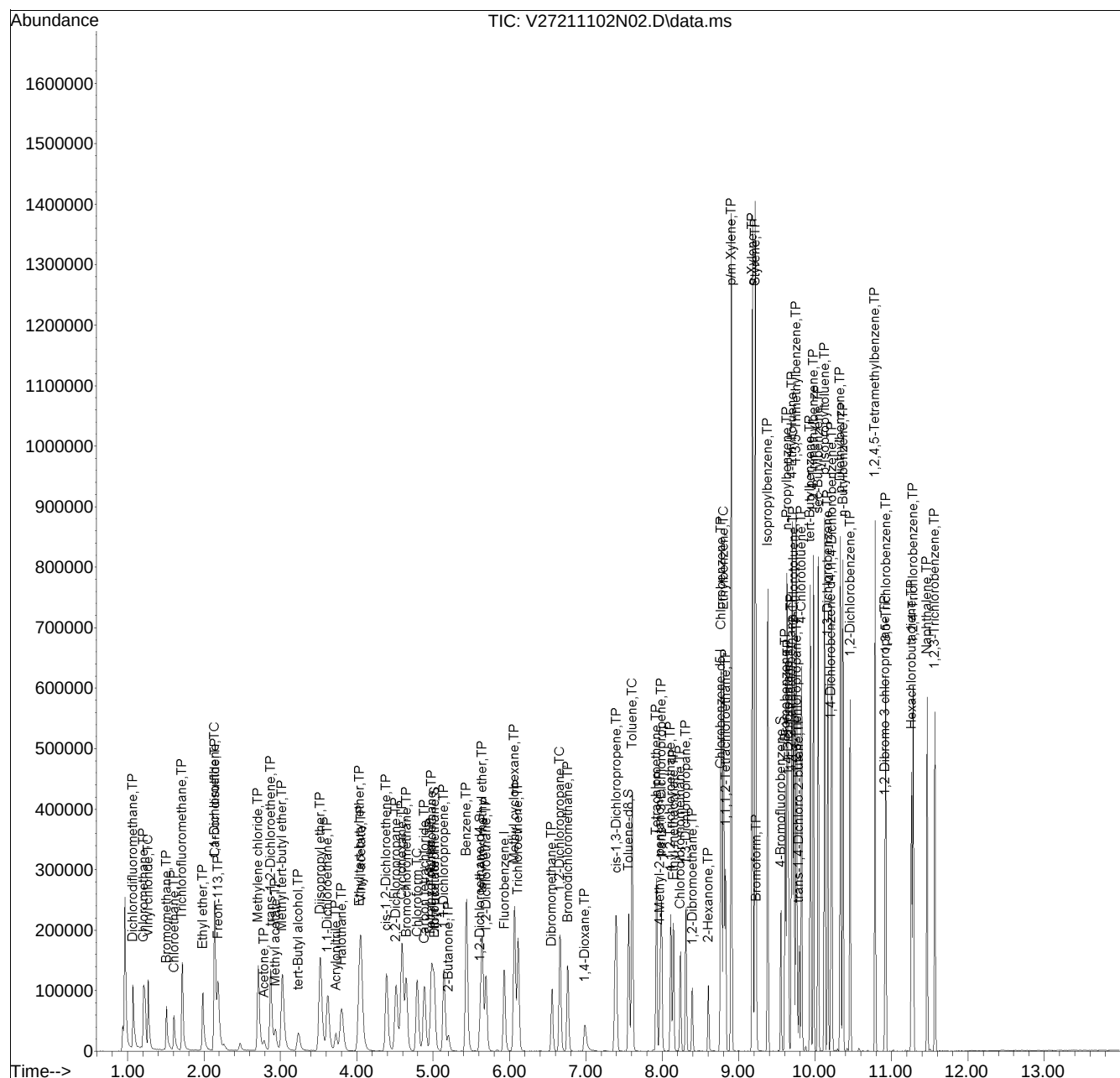
(#) = qualifier out of range (m) = manual integration (+) = signals summed

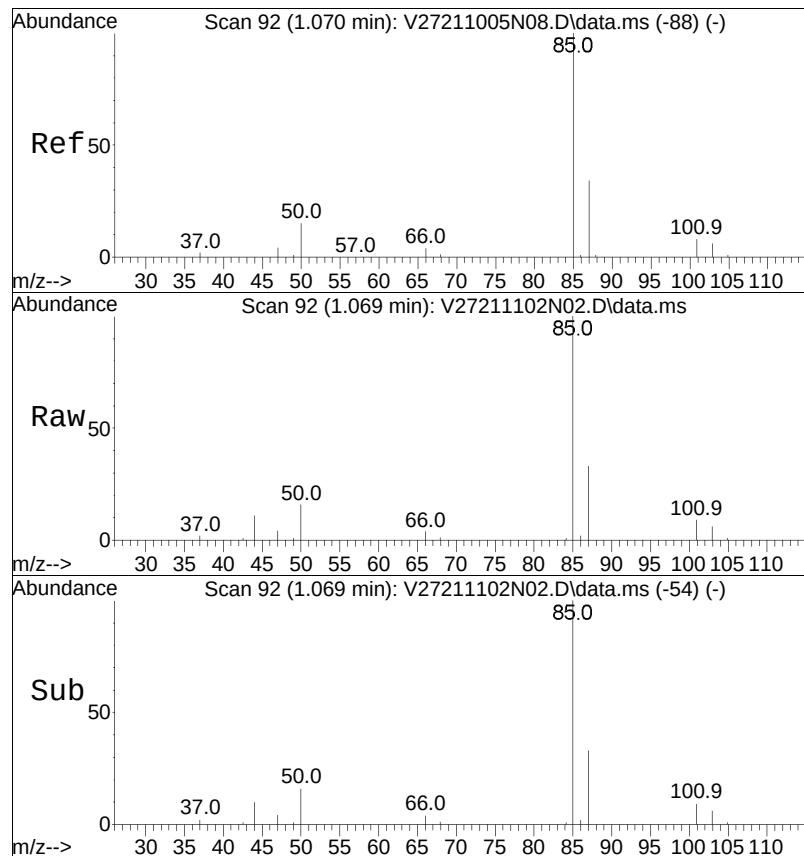
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N02.D
 Acq On : 02 Nov 2021 04:38 pm
 Operator : VOA127:KJD
 Sample : WG1566511-3, 31, 5, 5
 Misc : WG1566511, ICAL18360
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 16:59:35 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

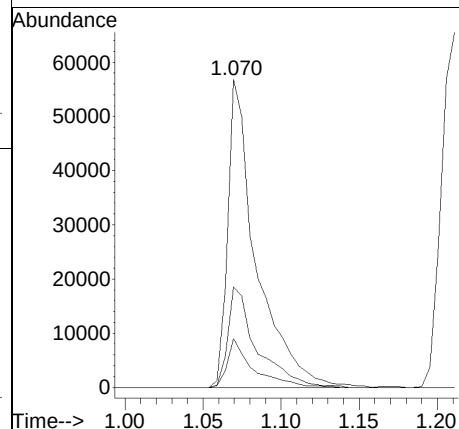
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve2.D•

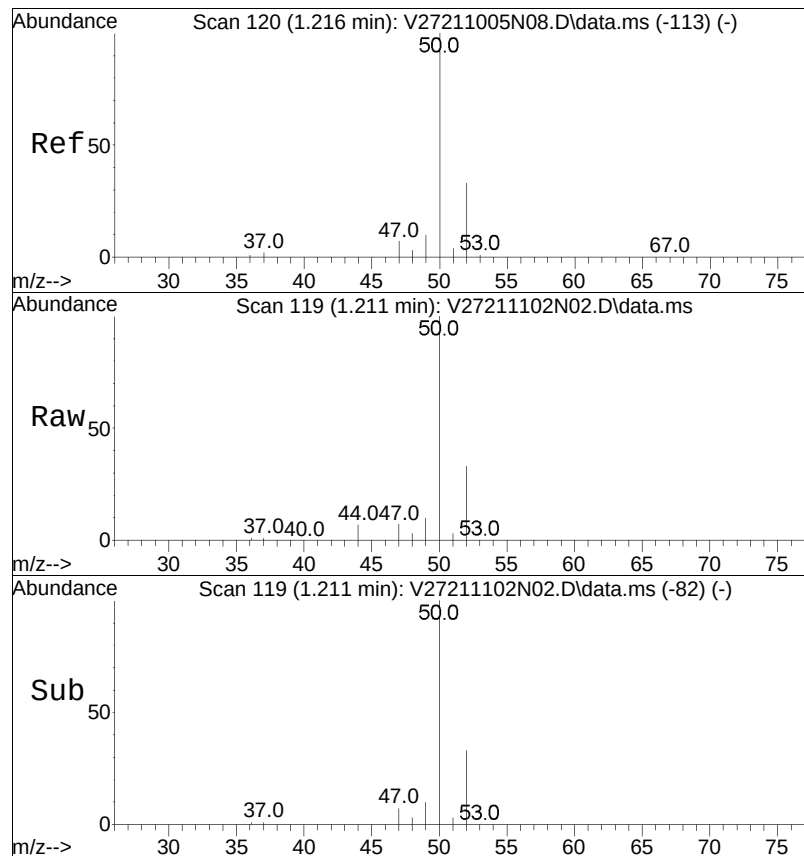




#2
 Dichlorodifluoromethane
 Concen: 37.93 ug/L
 RT: 1.069 min Scan# 92
 Delta R.T. -0.001 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

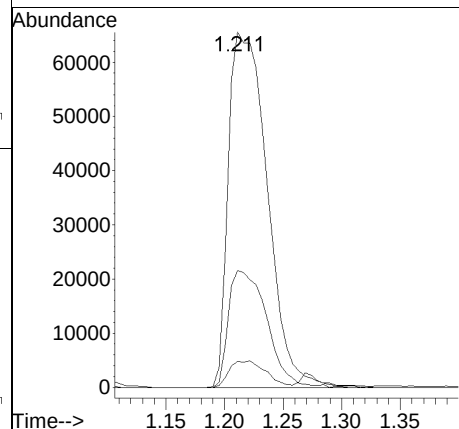
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.1	21.0	43.6
50	14.4	8.9	18.5

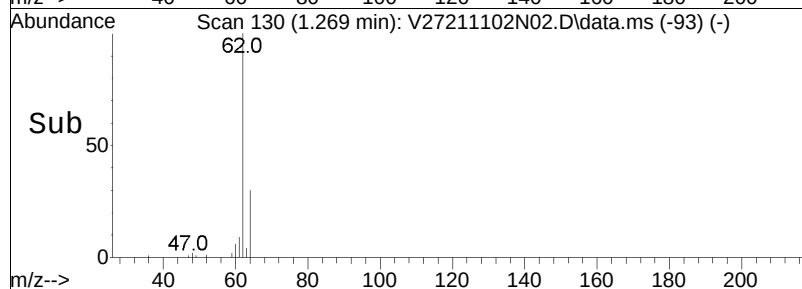
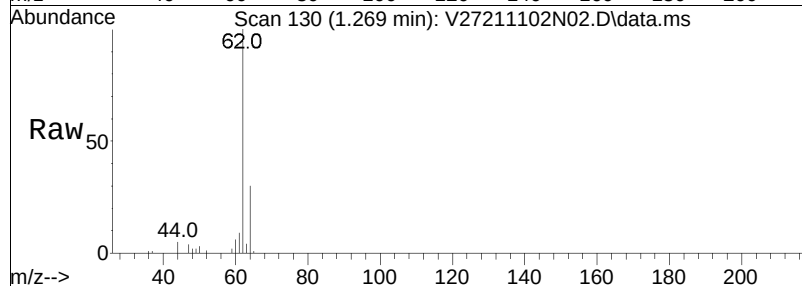
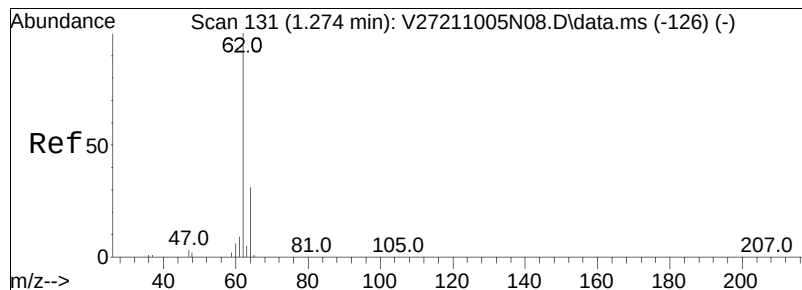




#3
 Chloromethane
 Concen: 38.99 ug/L
 RT: 1.211 min Scan# 119
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

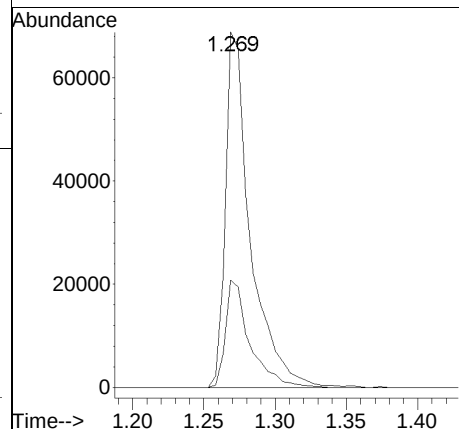
Tgt	Ion: 50	Resp:	151375
Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.9	52.9
47	7.1	0.0	28.3

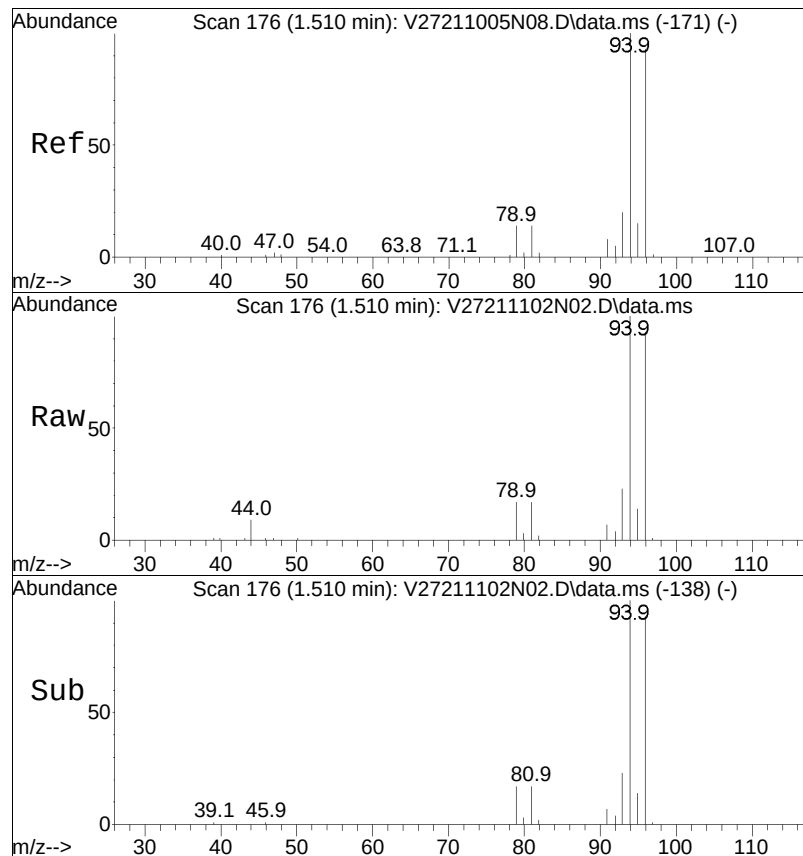




#4
 Vinyl chloride
 Concen: 38.68 ug/L
 RT: 1.269 min Scan# 130
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

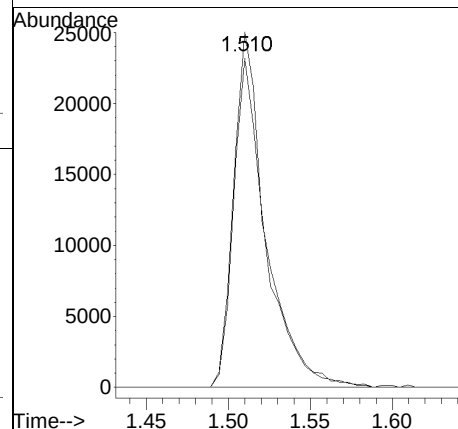
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.4	9.1	49.1

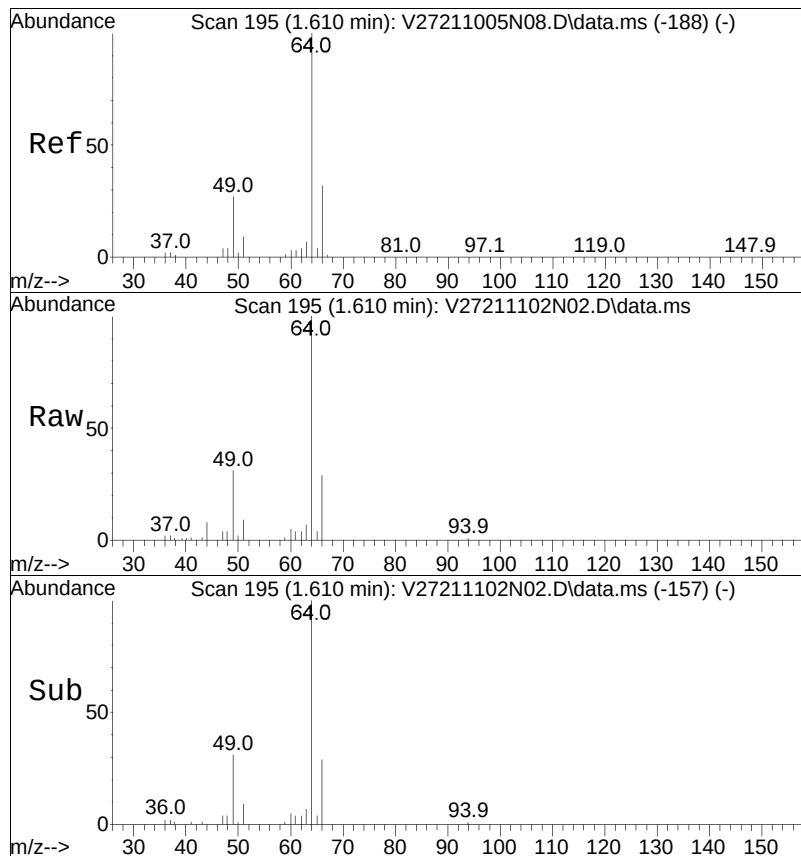




#5
 Bromomethane
 Concen: 34.78 ug/L
 RT: 1.510 min Scan# 176
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

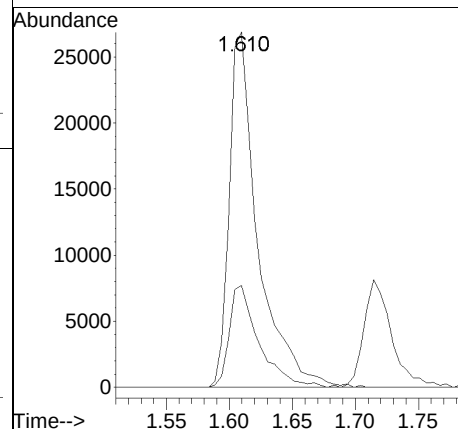
Tgt Ion	Ratio	Lower	Upper
94	100		
96	92.4	75.6	115.6

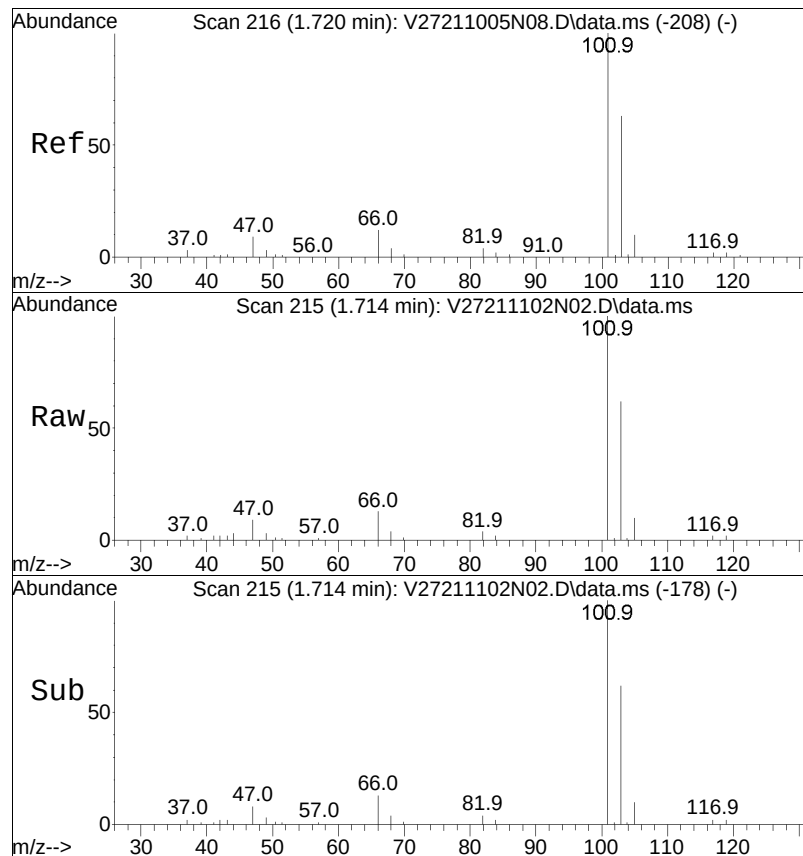




#6
 Chloroethane
 Concen: 28.14 ug/L
 RT: 1.610 min Scan# 195
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

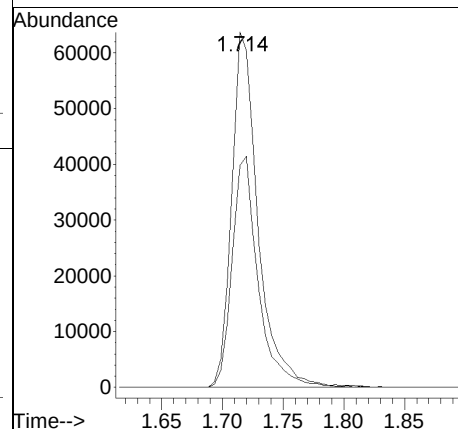
Tgt Ion	Ratio	Lower	Upper
64	100		
66	29.7	9.8	49.8

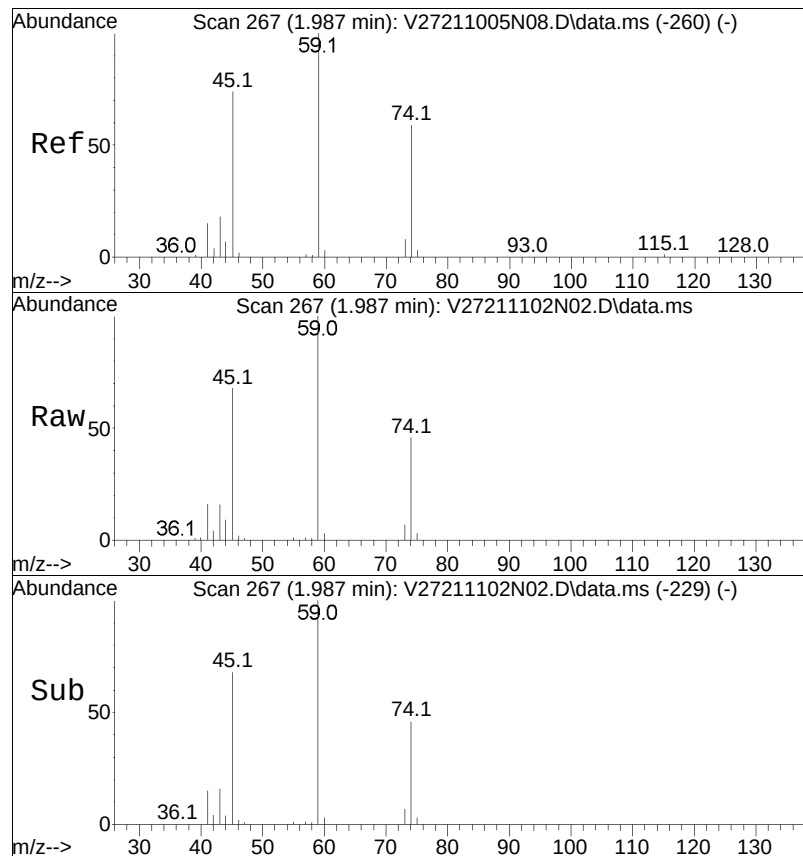




#7
 Trichlorofluoromethane
 Concen: 39.96 ug/L
 RT: 1.714 min Scan# 215
 Delta R.T. -0.006 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

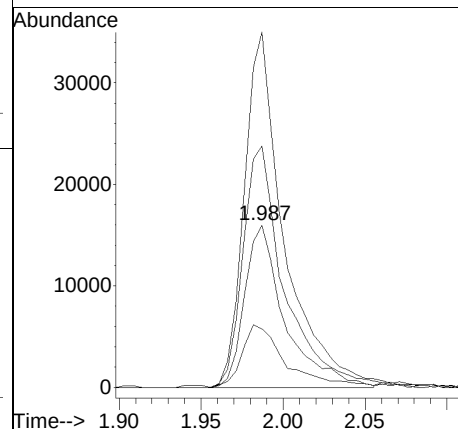
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	64.4	53.8	80.6	

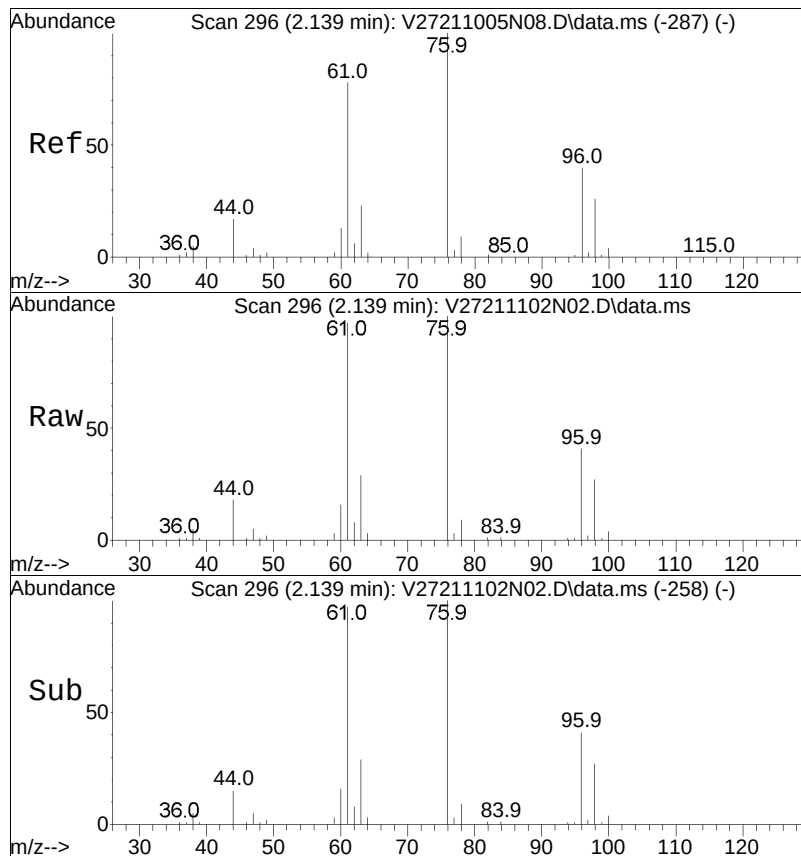




#8
 Ethyl ether
 Concen: 28.11 ug/L
 RT: 1.987 min Scan# 267
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

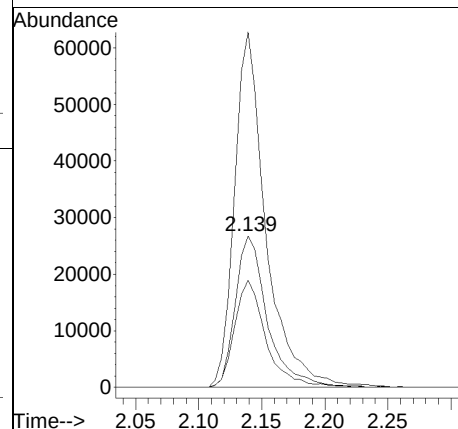
Tgt Ion:	74	Resp:	27401
Ion Ratio	Lower	Upper	
74	100		
59	219.3	122.2	253.8
45	153.9	91.9	190.9
43	42.1	25.2	52.2

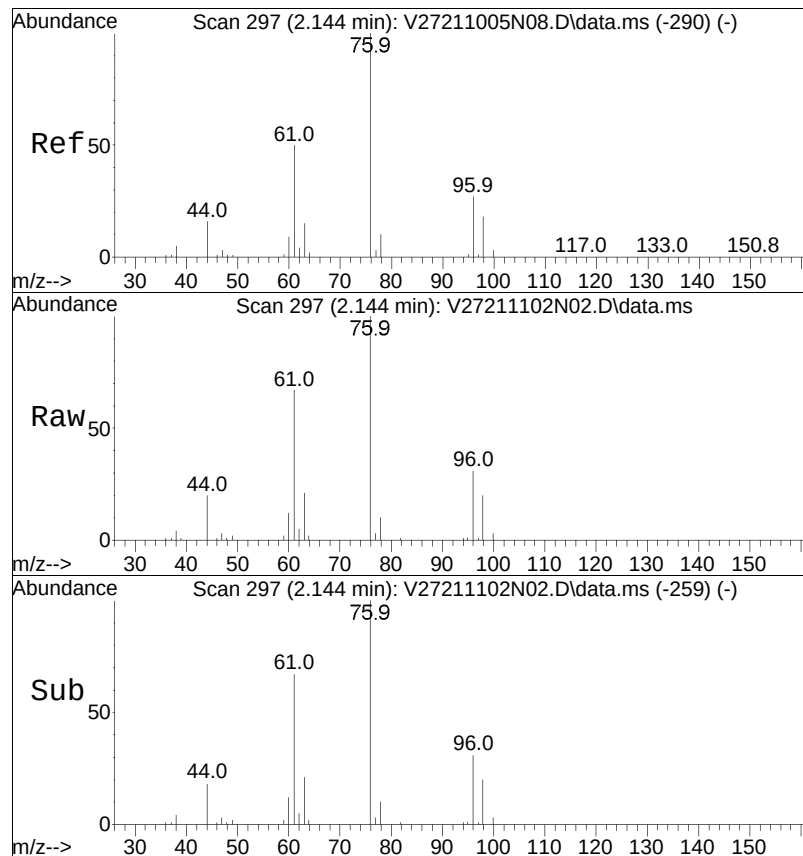




#10
 1,1-Dichloroethene
 Concen: 30.20 ug/L
 RT: 2.139 min Scan# 296
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

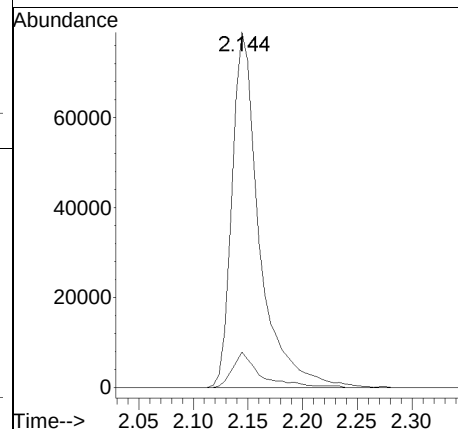
Tgt Ion:	96	Resp:	47653
Ion Ratio	Lower	Upper	
96	100		
61	229.0	186.1	279.1
63	69.2	57.6	86.4

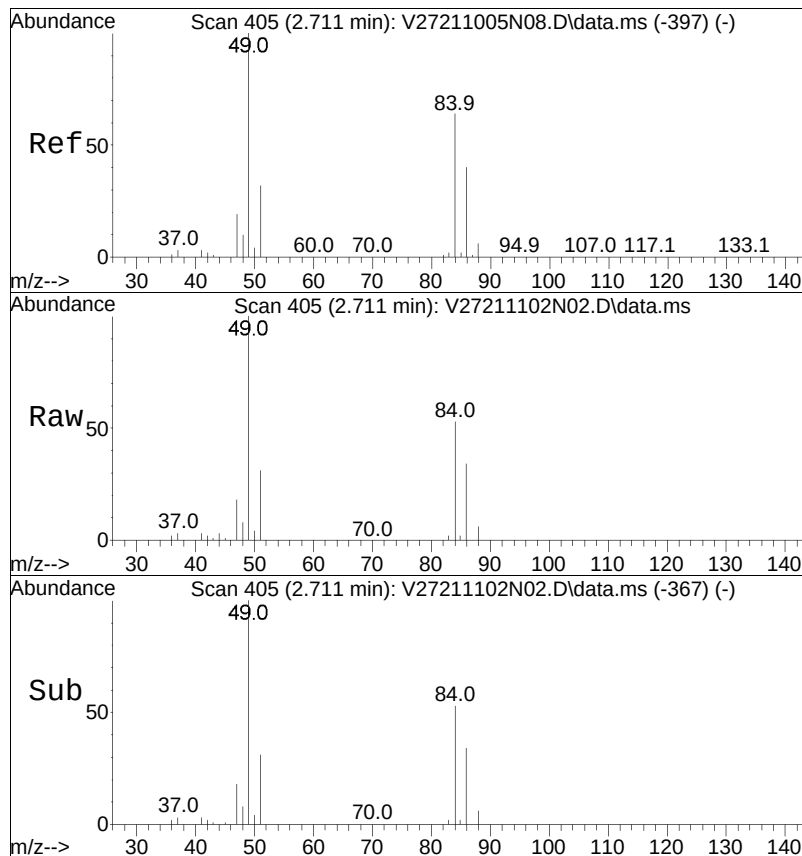




#11
Carbon disulfide
Concen: 29.42 ug/L
RT: 2.144 min Scan# 297
Delta R.T. 0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

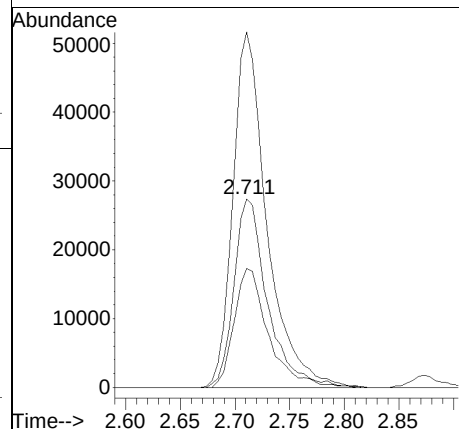
Tgt	Ion	Ratio	Lower	Upper
76	100			
78	9.9	5.7	11.7	

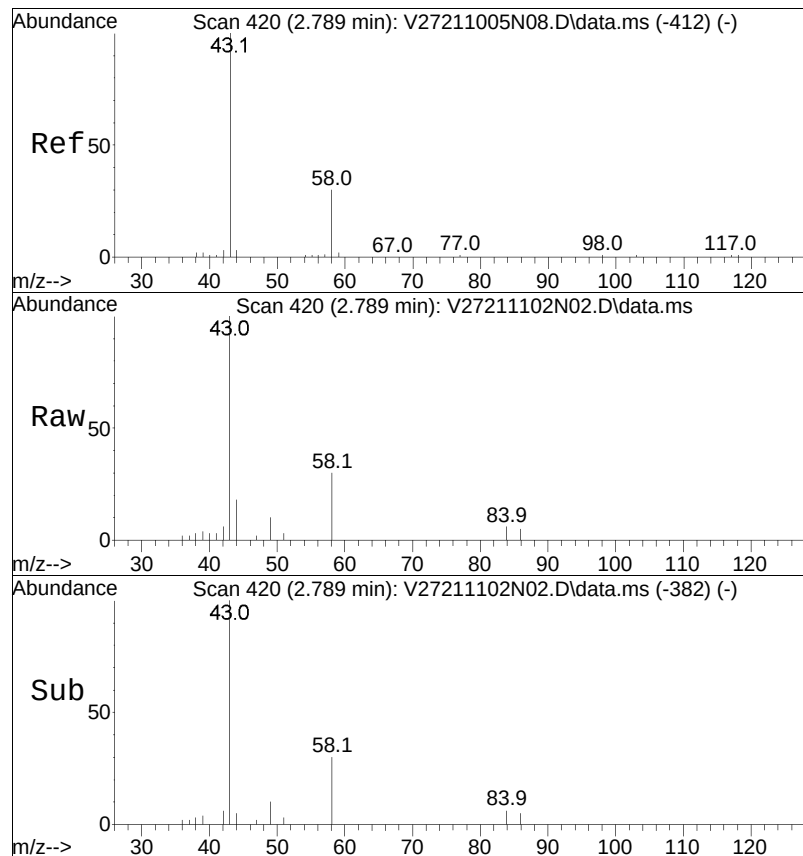




#15
Methylene chloride
Concen: 33.70 ug/L
RT: 2.711 min Scan# 405
Delta R.T. -0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

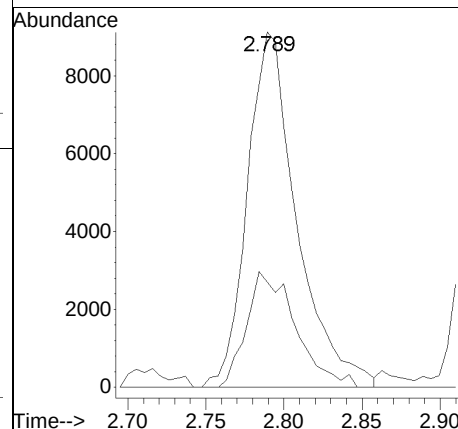
Tgt	Ion	Ratio	Lower	Upper
84	100			
86	64.3	40.4	83.8	
49	190.8	120.0	249.2	

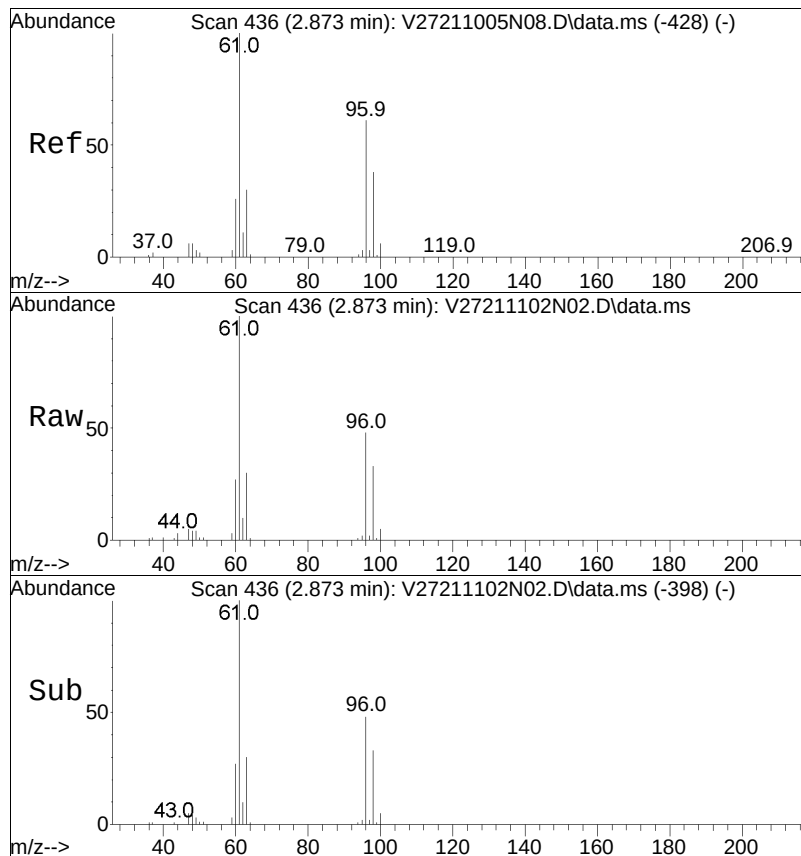




#17
 Acetone
 Concen: 24.21 ug/L
 RT: 2.789 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

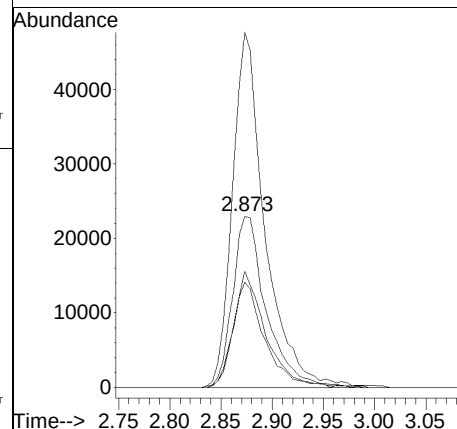
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	32.4	24.2	36.4	

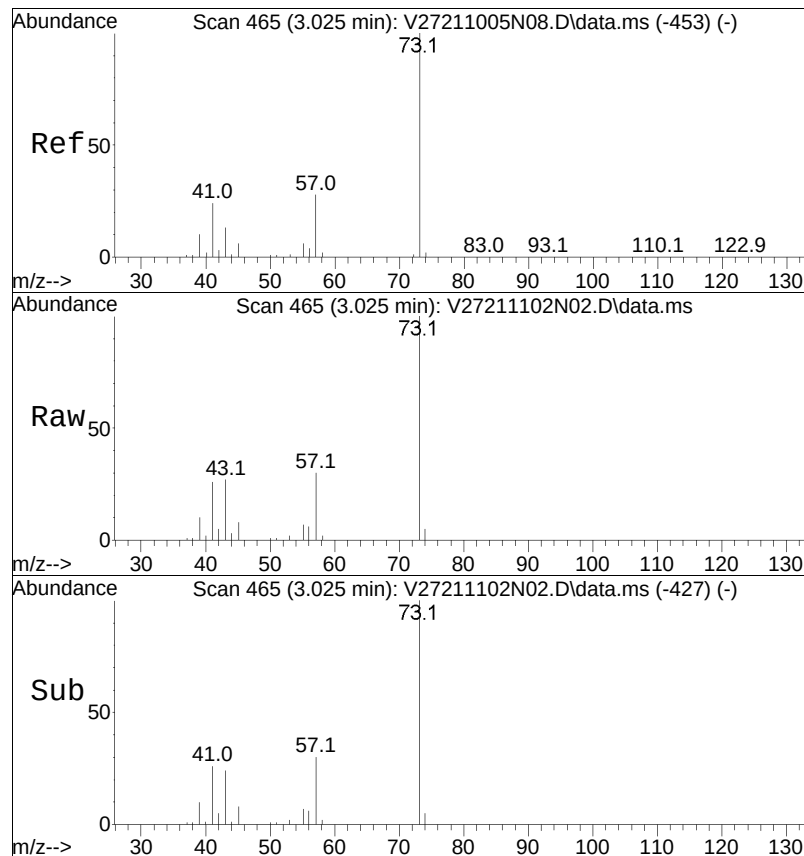




#18
 trans-1,2-Dichloroethene
 Concen: 29.89 ug/L
 RT: 2.873 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

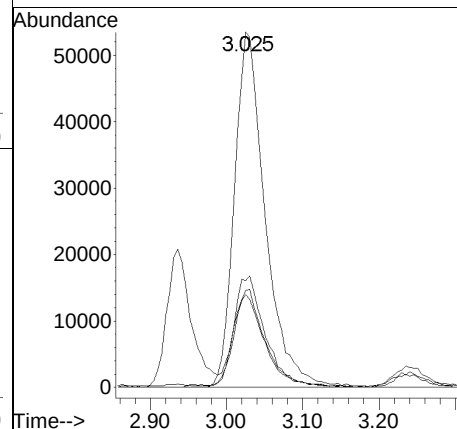
Tgt Ion:	96	Resp:	52674
Ion Ratio	Lower	Upper	
96	100		
61	198.9	124.0	257.6
98	63.7	41.2	85.6
63	58.7	38.4	79.7

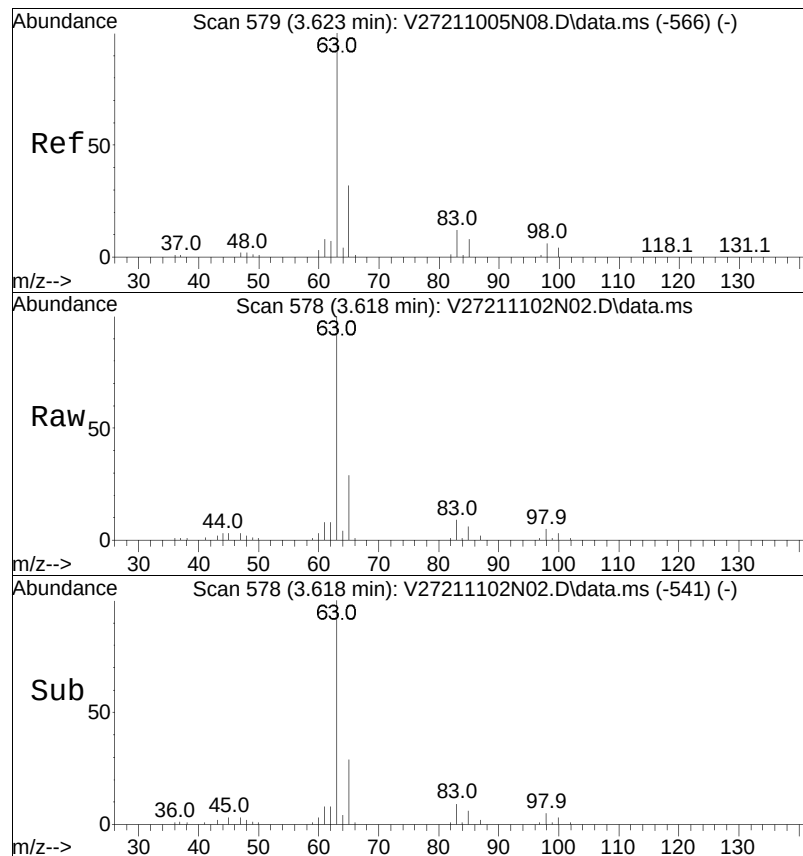




#20
Methyl tert-butyl ether
Concen: 37.23 ug/L
RT: 3.025 min Scan# 465
Delta R.T. 0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

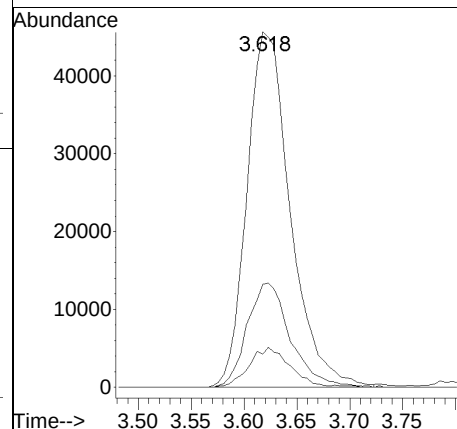
Tgt	Ion: 73	Resp:	150455
Ion	Ratio	Lower	Upper
73	100		
57	32.2	17.5	36.3
43	27.5	15.3	31.9
41	25.8	15.3	31.7

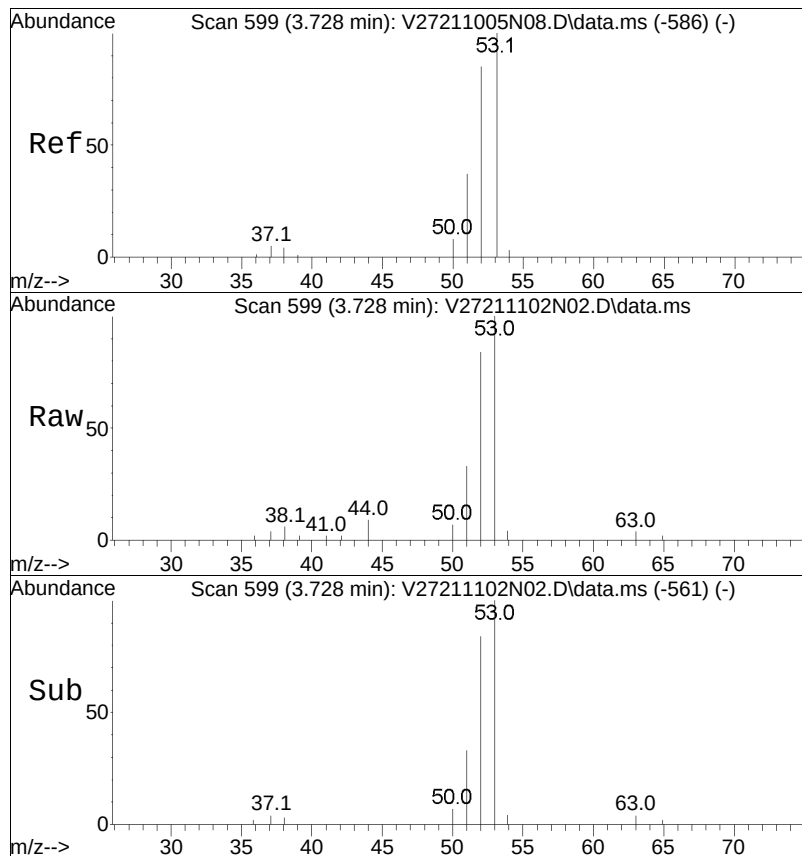




#23
 1,1-Dichloroethane
 Concen: 35.51 ug/L
 RT: 3.618 min Scan# 578
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

Tgt	Ion: 63	Resp:	130169
Ion	Ratio	Lower	Upper
63	100		
65	29.4	11.0	51.0
83	10.6	0.0	31.8





#25

Acrylonitrile

Concen: 37.38 ug/L

RT: 3.728 min Scan# 599

Delta R.T. -0.000 min

Lab File: V27211102N02.D

Acq: 02 Nov 2021 04:38 pm

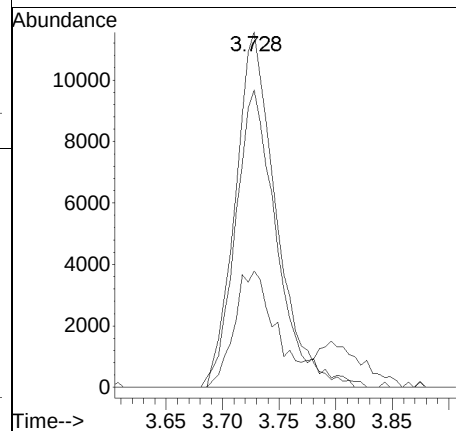
Tgt Ion: 53 Resp: 29174

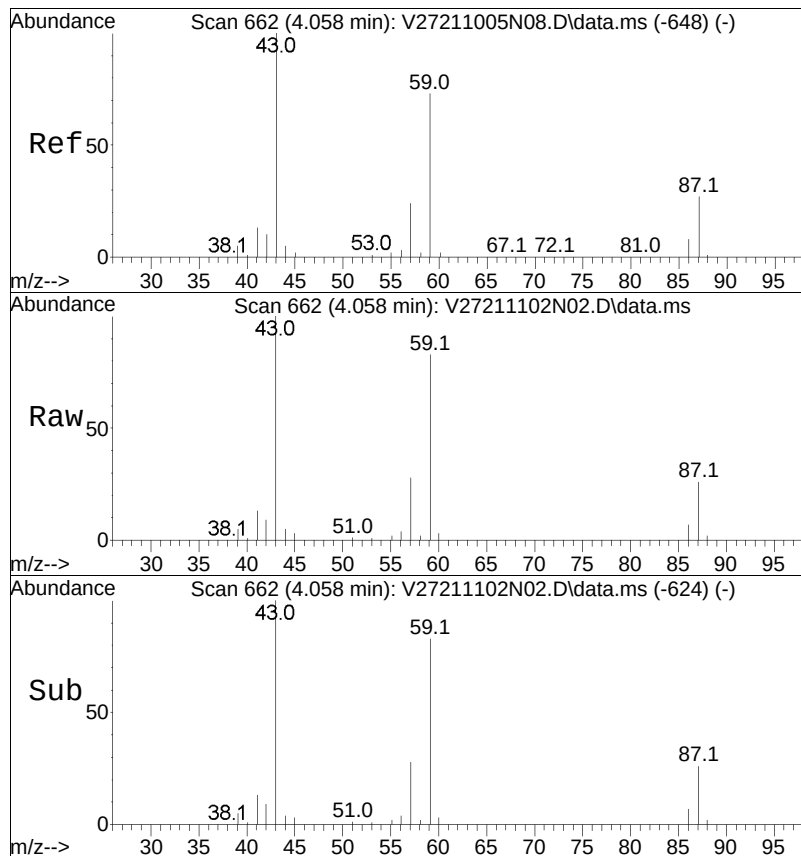
Ion Ratio Lower Upper

53 100

52 84.7 66.7 100.1

51 32.7 30.6 46.0





#27

Vinyl acetate

Concen: 45.31 ug/L

RT: 4.058 min Scan# 662

Delta R.T. 0.000 min

Lab File: V27211102N02.D

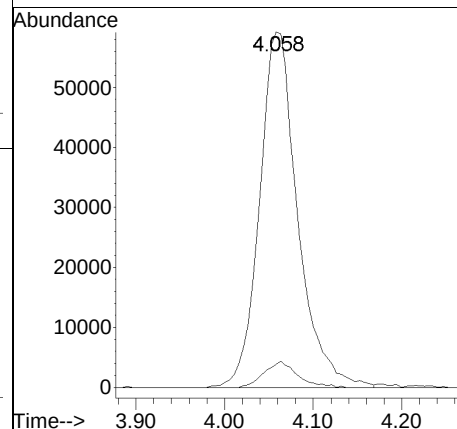
Acq: 02 Nov 2021 04:38 pm

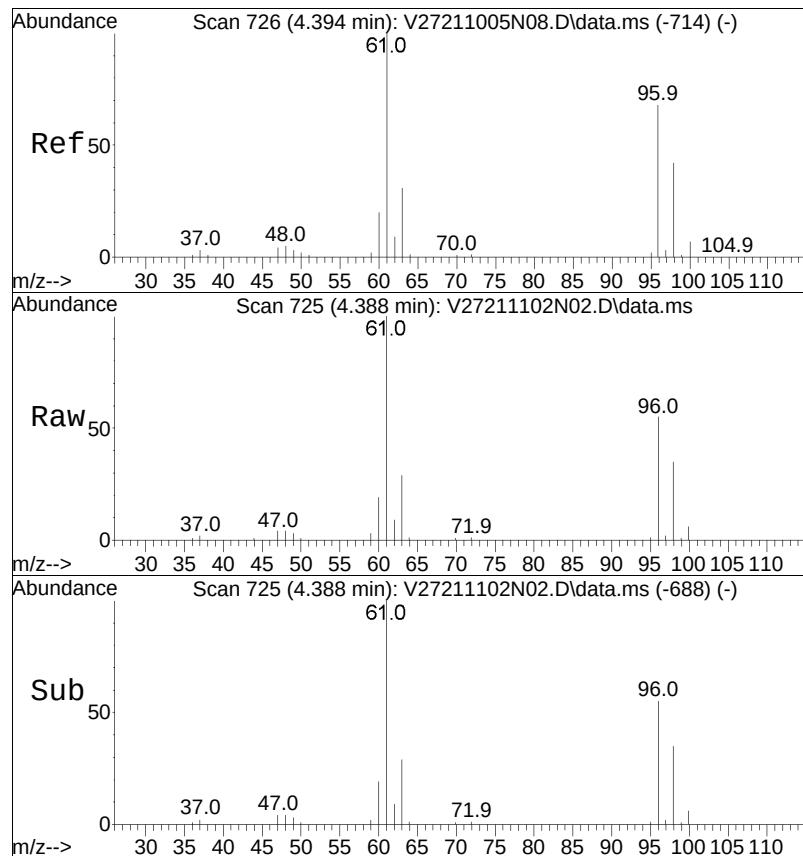
Tgt Ion: 43 Resp: 177442

Ion Ratio Lower Upper

43 100

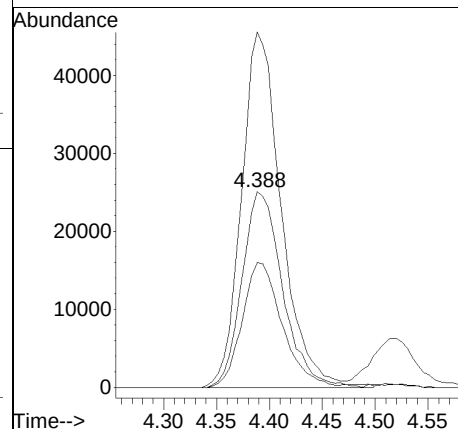
86 6.4 5.2 7.8

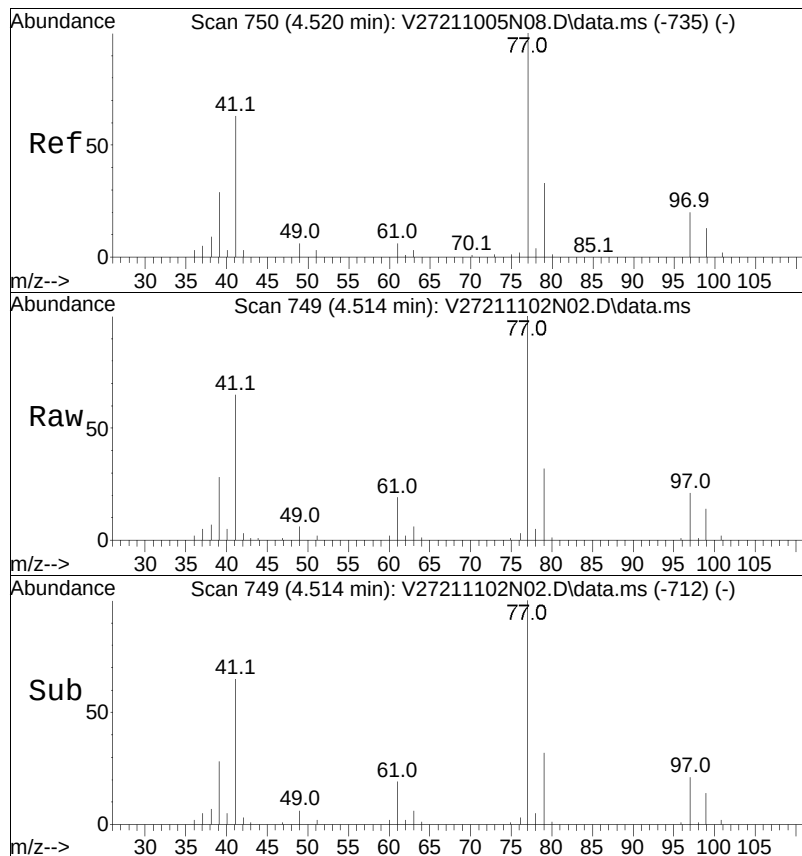




#28
 cis-1,2-Dichloroethene
 Concen: 32.75 ug/L
 RT: 4.388 min Scan# 725
 Delta R.T. -0.006 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

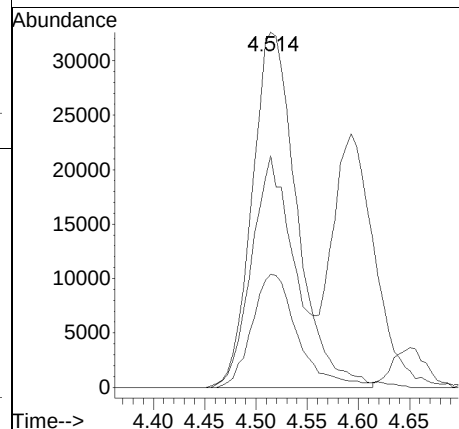
Tgt Ion:	96	Resp:	67295
Ion Ratio	Lower	Upper	
96	100		
61	176.2	149.4	224.2
98	62.9	53.4	80.2

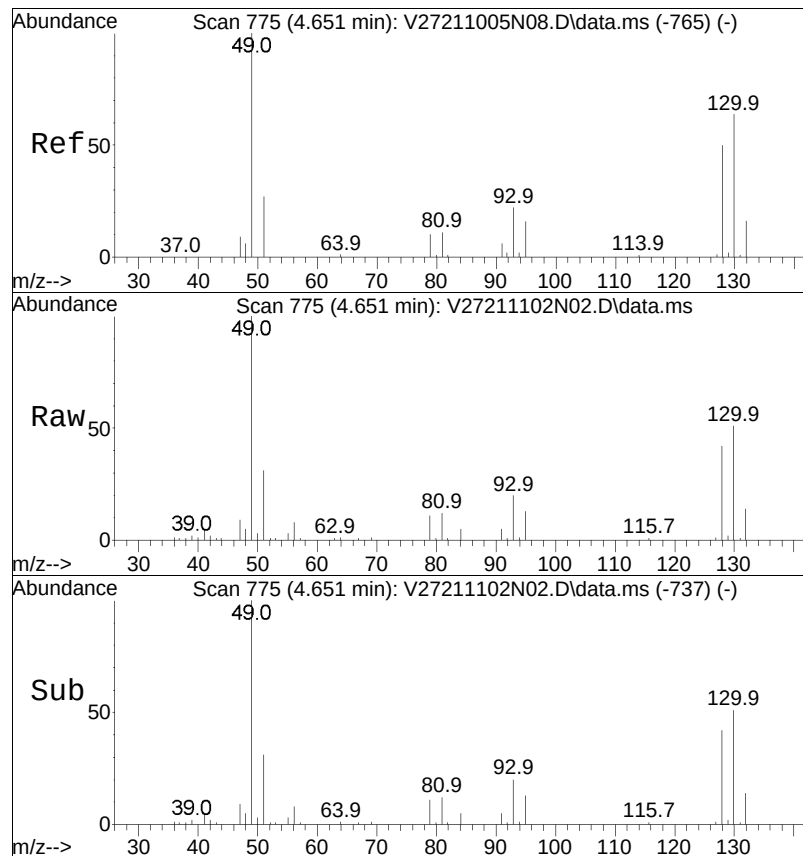




#29
 2,2-Dichloropropane
 Concen: 36.58 ug/L
 RT: 4.514 min Scan# 749
 Delta R.T. -0.006 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

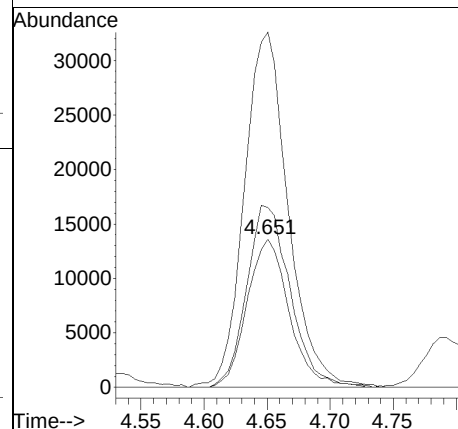
Tgt Ion: 77	Resp: 99145
Ion Ratio	Lower Upper
77 100	
41 61.0	38.0 78.8
79 32.4	20.5 42.5

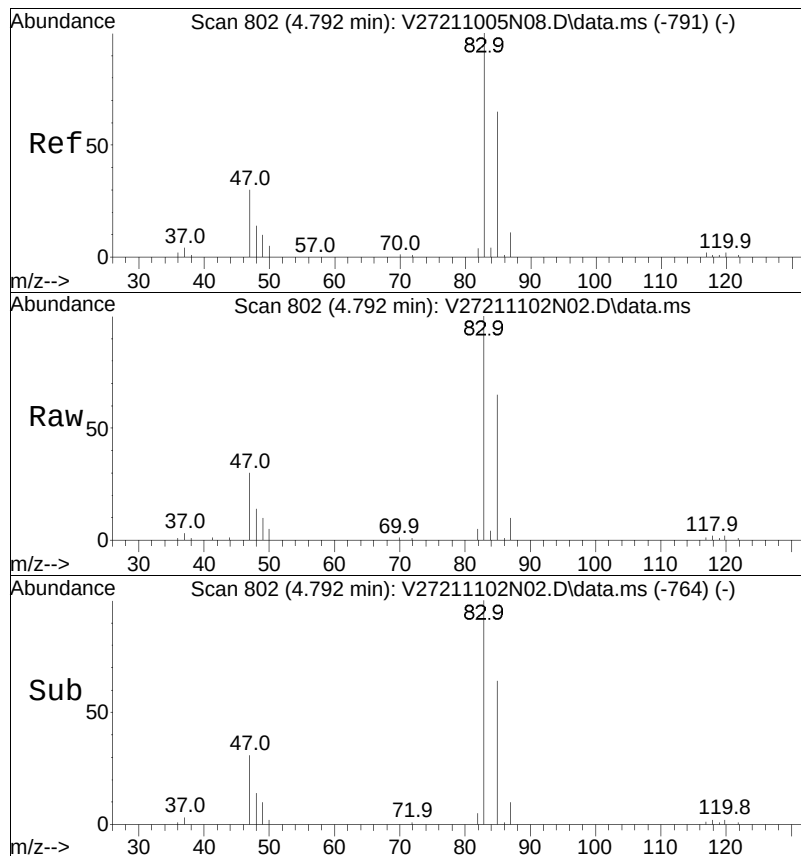




#30
 Bromochloromethane
 Concen: 31.75 ug/L
 RT: 4.651 min Scan# 775
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

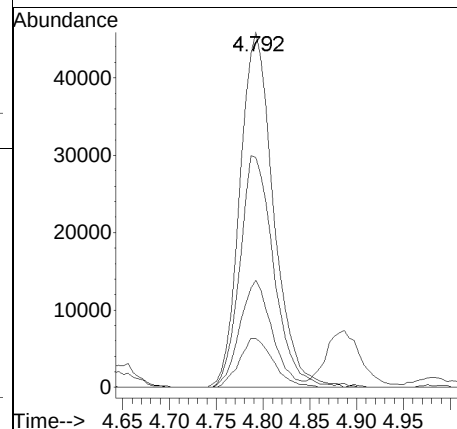
Tgt Ion	Ratio	Lower	Upper
128	100		
49	248.9	223.0	334.4
130	127.0	111.4	167.0

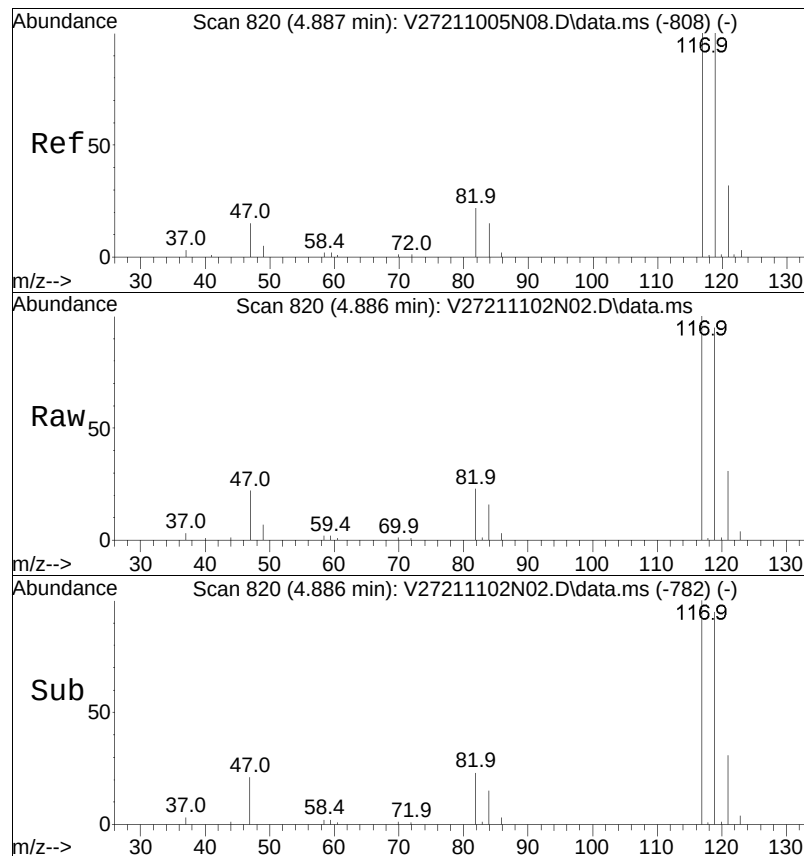




#32
 Chloroform
 Concen: 34.86 ug/L
 RT: 4.792 min Scan# 802
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

Tgt	Ion: 83	Resp:	115267
Ion	Ratio	Lower	Upper
83	100		
85	65.6	41.5	86.1
47	29.0	19.0	39.4
48	14.0	9.9	20.5





#34

Carbon tetrachloride

Concen: 42.78 ug/L

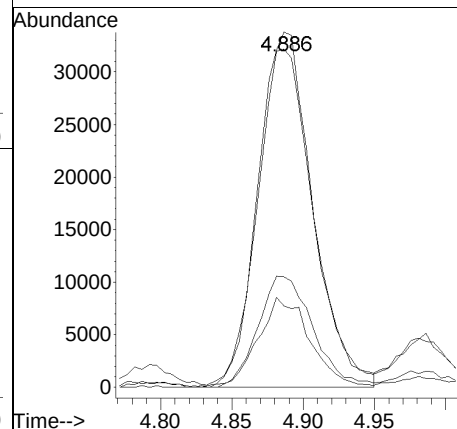
RT: 4.886 min Scan# 820

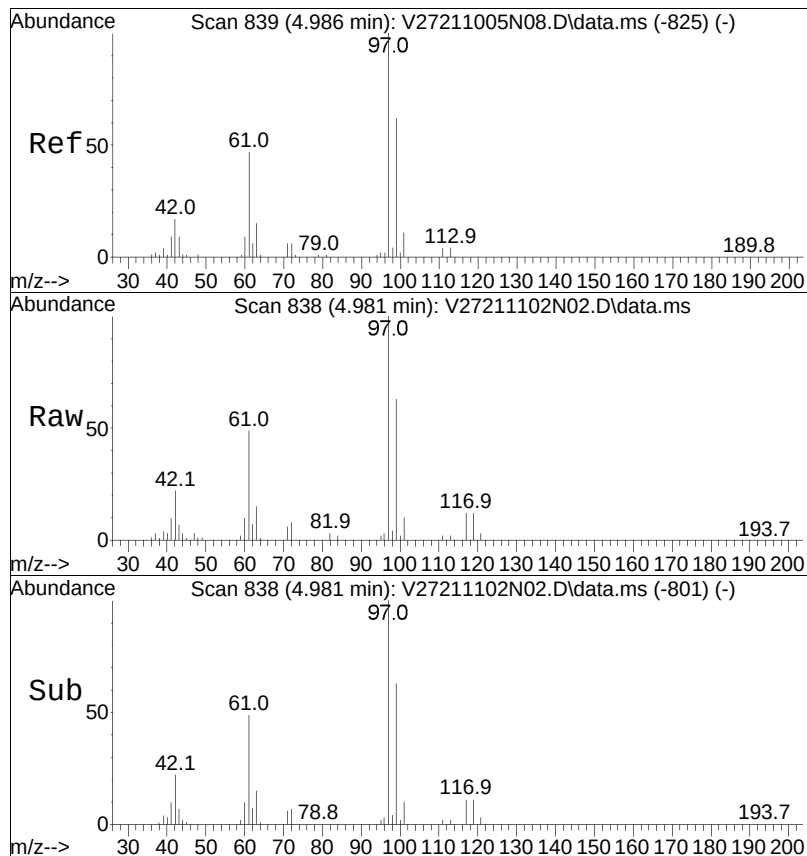
Delta R.T. -0.001 min

Lab File: V27211102N02.D

Acq: 02 Nov 2021 04:38 pm

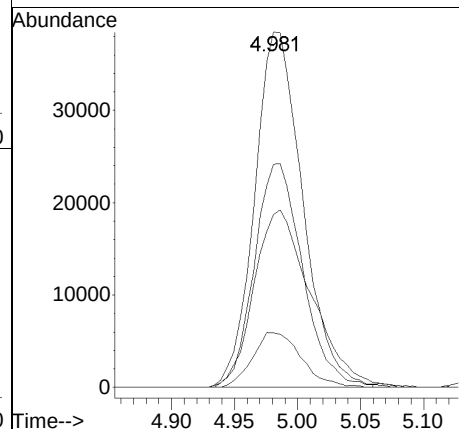
Tgt	Ion:117	Resp:	90905
Ion	Ratio	Lower	Upper
117	100		
119	95.5	62.4	129.6
121	31.3	19.5	40.5
82	23.9	17.0	35.4

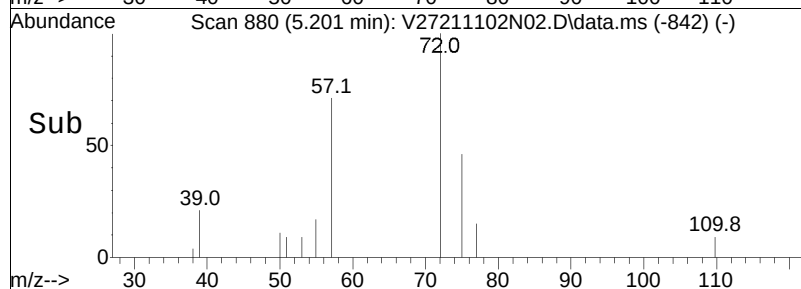
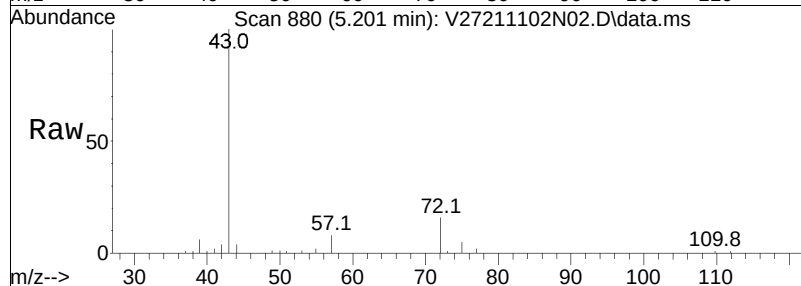
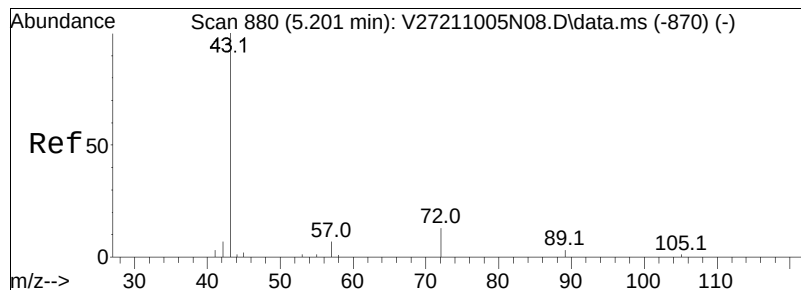




#37
 1,1,1-Trichloroethane
 Concen: 39.71 ug/L
 RT: 4.981 min Scan# 838
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

Tgt Ion: 97	Resp: 102061
Ion Ratio	Lower Upper
97 100	
99 63.2	40.7 84.5
61 59.5	35.4 73.4
63 15.7	5.0 10.4#





#39

2-Butanone

Concen: 31.07 ug/L

RT: 5.201 min Scan# 880

Delta R.T. 0.000 min

Lab File: V27211102N02.D

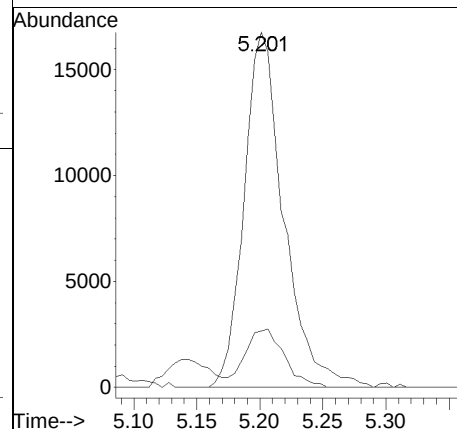
Acq: 02 Nov 2021 04:38 pm

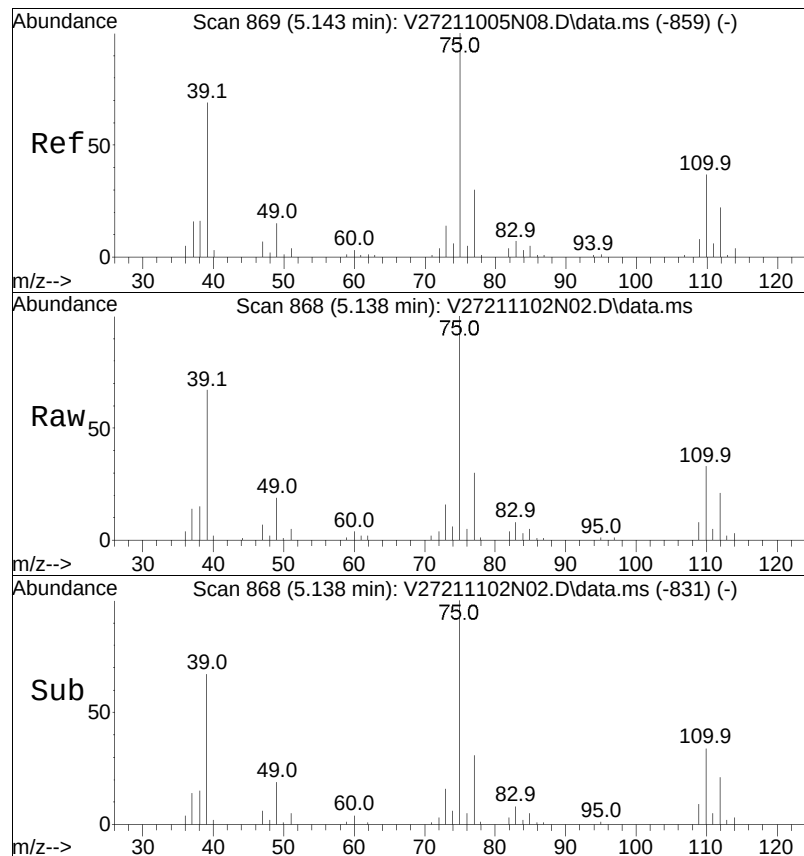
Tgt Ion: 43 Resp: 36736

Ion Ratio Lower Upper

43 100

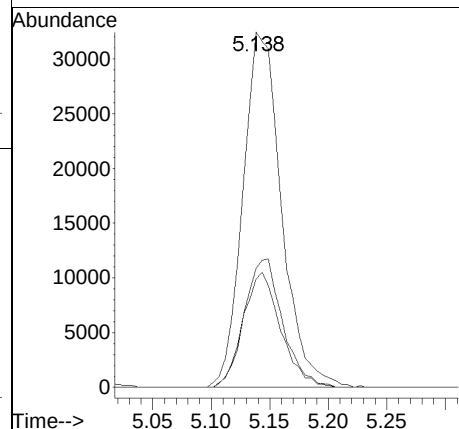
72 16.5 10.9 16.3#

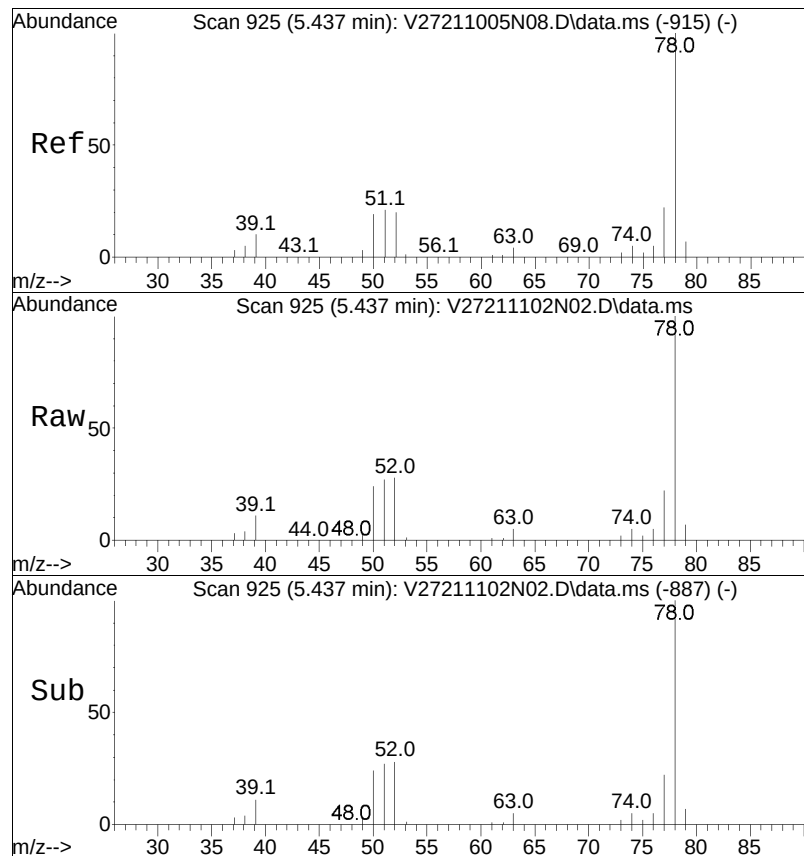




#40
 1,1-Dichloropropene
 Concen: 36.68 ug/L
 RT: 5.138 min Scan# 868
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

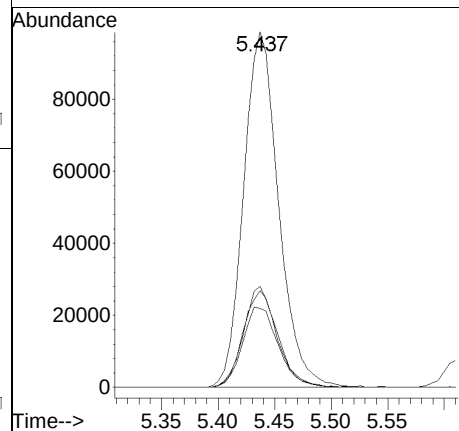
Tgt	Ion: 75	Resp:	74546
Ion	Ratio	Lower	Upper
75	100		
110	36.0	20.2	41.9
77	31.5	20.1	41.7

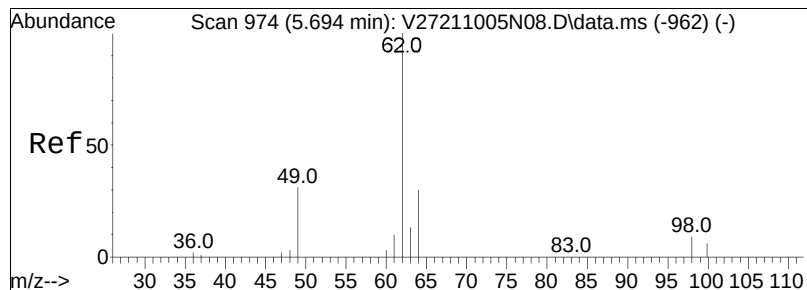




#41
Benzene
Concen: 35.12 ug/L
RT: 5.437 min Scan# 925
Delta R.T. 0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

Tgt	Ion: 78	Resp:	212932
Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.7	32.7
51	26.5	16.0	33.2
52	27.8	15.3	31.9





#44

1,2-Dichloroethane

Concen: 44.35 ug/L

RT: 5.694 min Scan# 974

Delta R.T. -0.000 min

Lab File: V27211102N02.D

Acq: 02 Nov 2021 04:38 pm

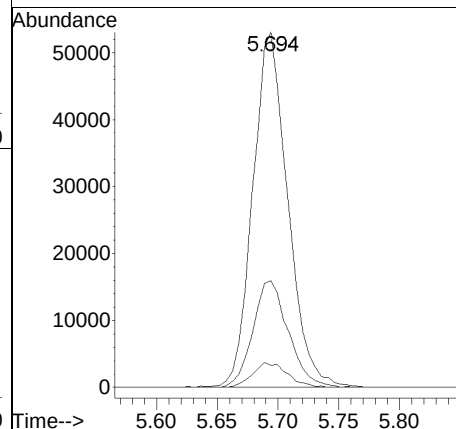
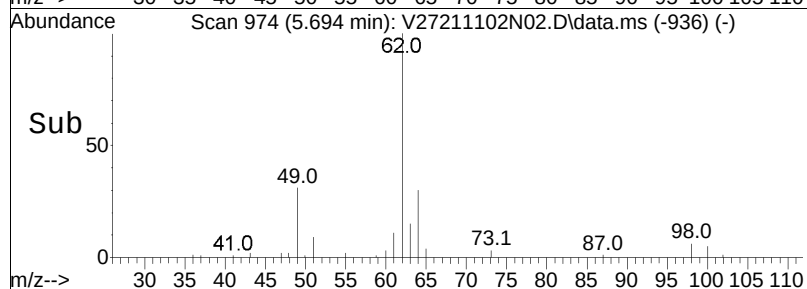
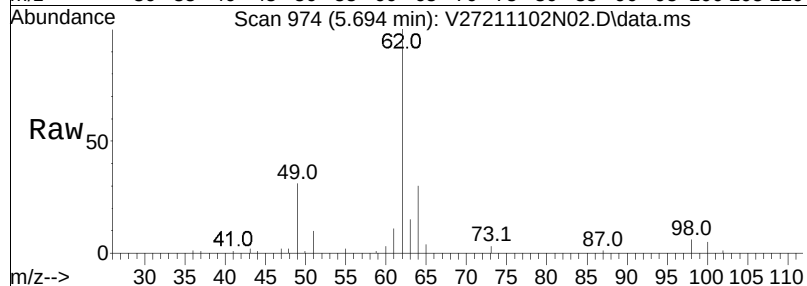
Tgt Ion: 62 Resp: 106348

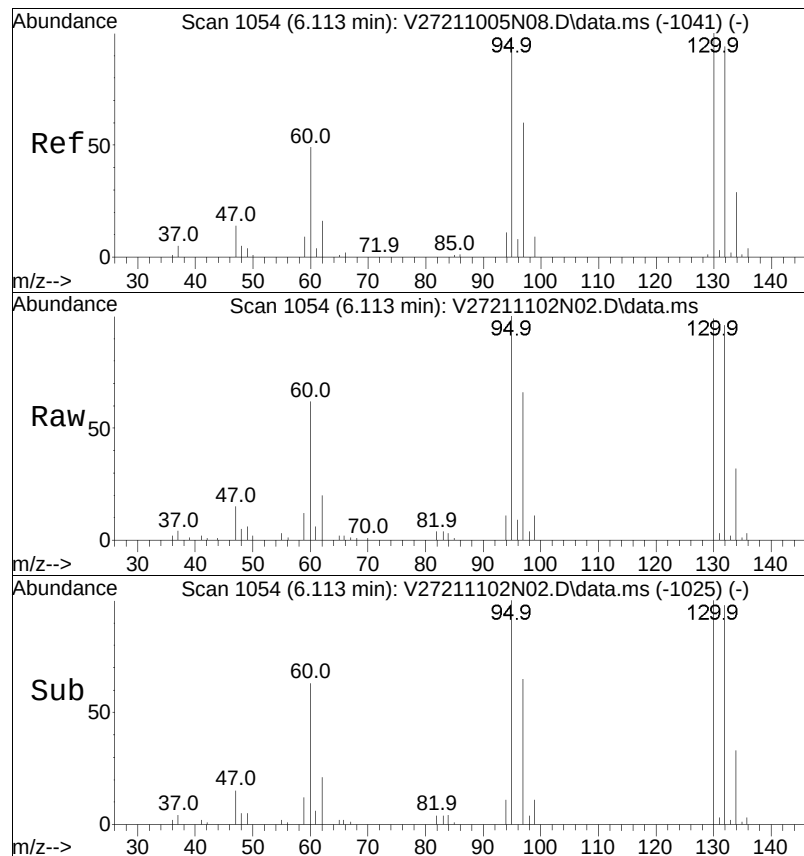
Ion Ratio Lower Upper

62 100

64 30.5 11.2 51.2

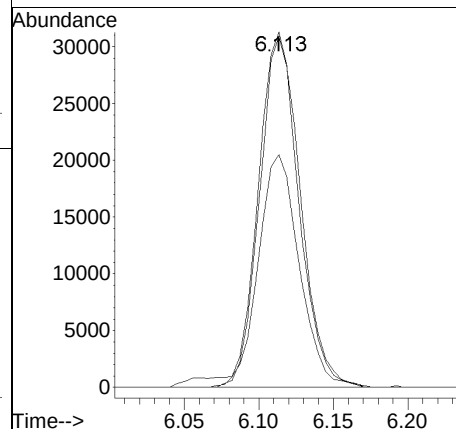
98 7.0 0.0 26.1

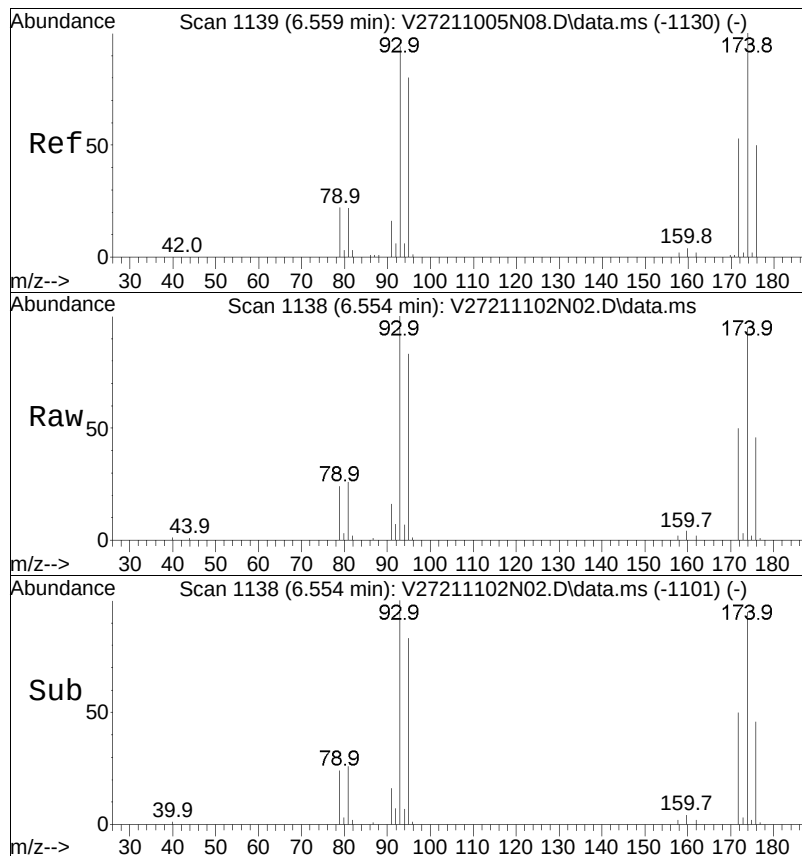




#48
 Trichloroethene
 Concen: 37.91 ug/L
 RT: 6.113 min Scan# 1054
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

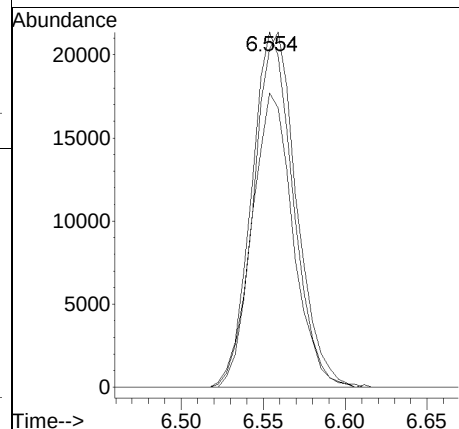
Tgt Ion	Ratio	Resp	Lower	Upper
95	100	59131		
97	68.8		55.5	83.3
130	99.9		76.6	115.0

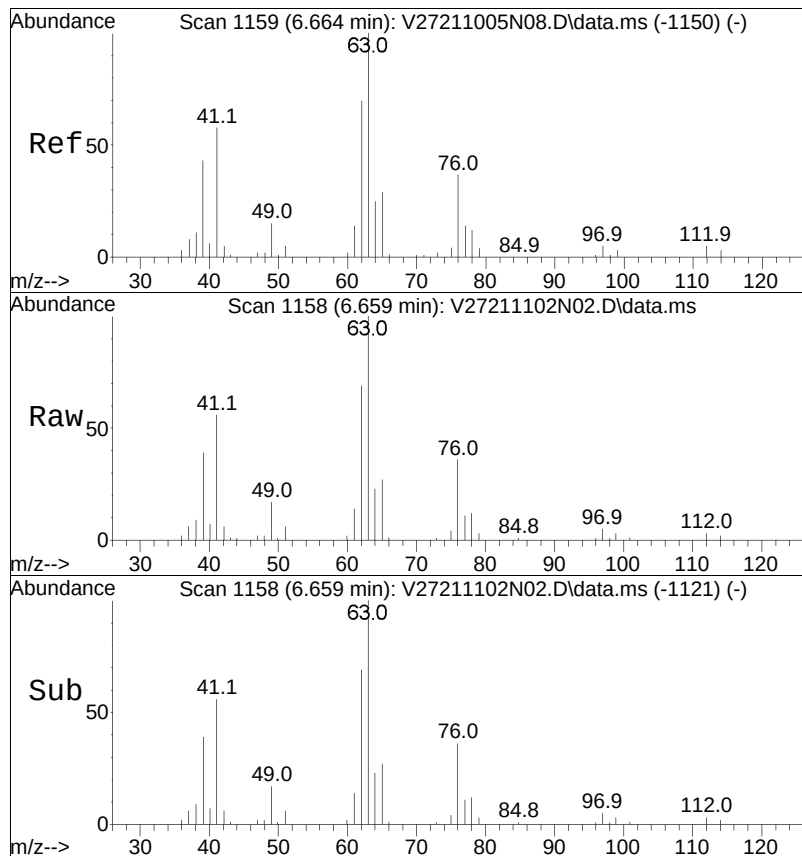




#50
 Dibromomethane
 Concen: 35.13 ug/L
 RT: 6.554 min Scan# 1138
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

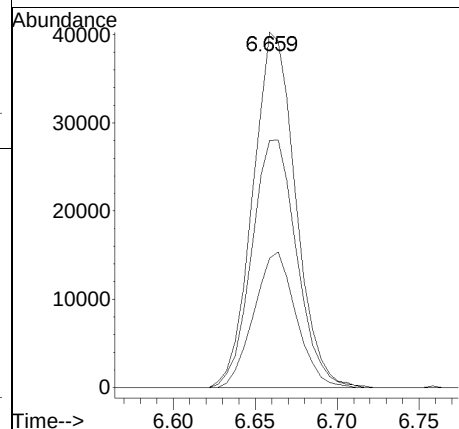
Tgt Ion:	93	Resp:	37831
Ion Ratio	Lower	Upper	
93	100		
95	82.2	67.0	100.4
174	101.6	75.0	112.4

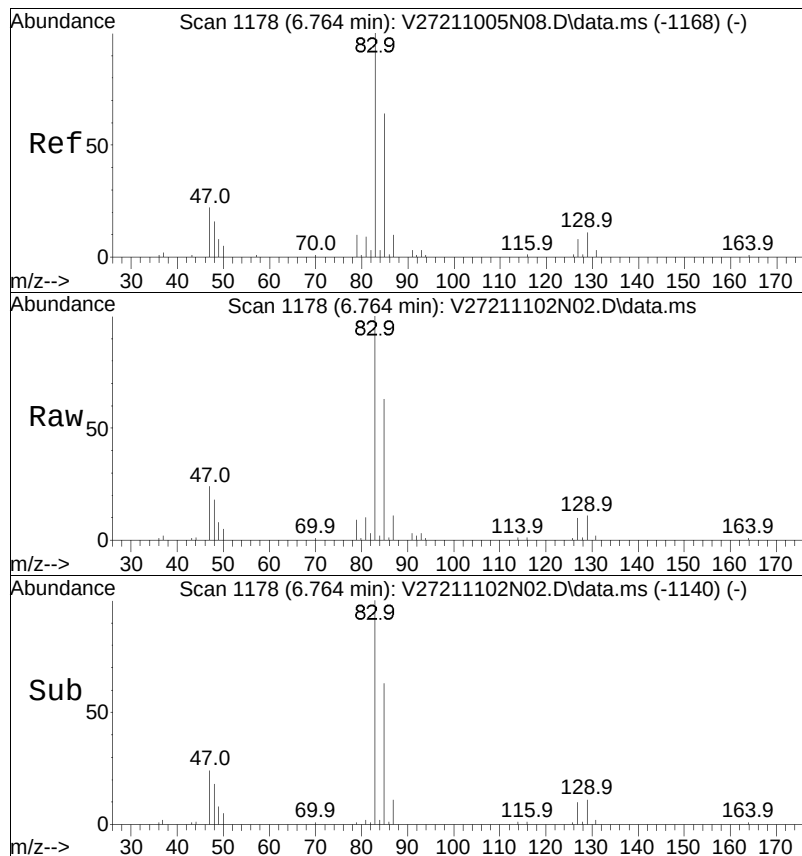




#51
 1,2-Dichloropropane
 Concen: 42.45 ug/L
 RT: 6.659 min Scan# 1158
 Delta R.T. -0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

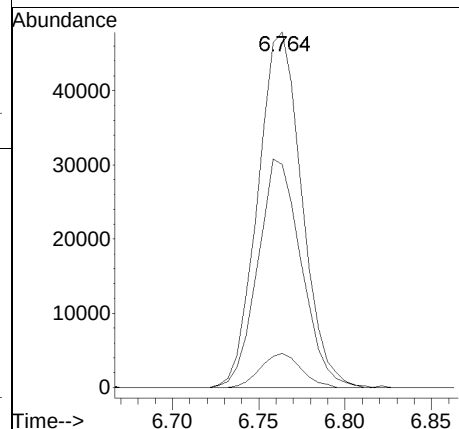
Tgt Ion:	63	Resp:	73014
Ion Ratio	Lower	Upper	
63	100		
62	73.2	58.6	87.8
76	37.6	38.0	57.0#

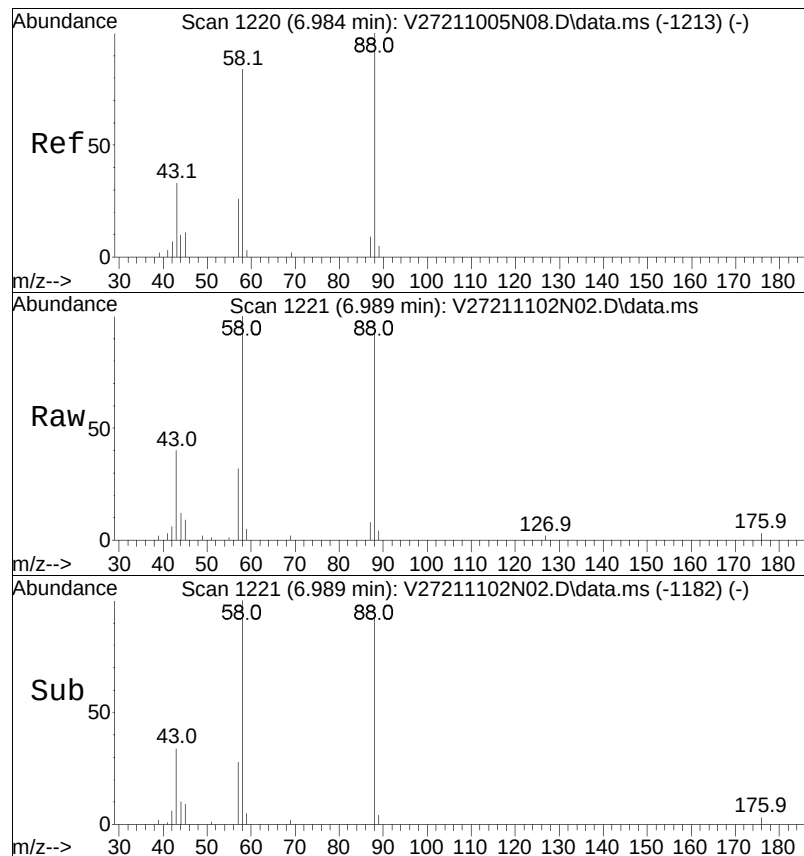




#54
 Bromodichloromethane
 Concen: 35.72 ug/L
 RT: 6.764 min Scan# 1178
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

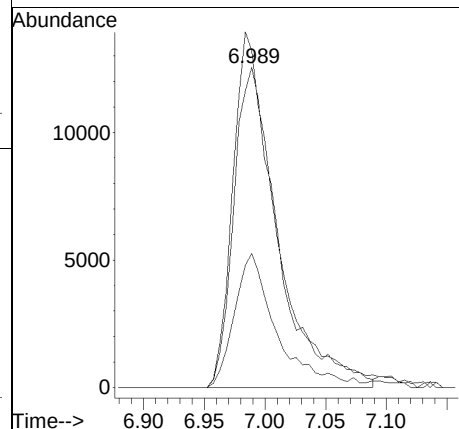
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		84850		
85	63.7	52.3		78.5	
127	8.8	6.2		9.4	

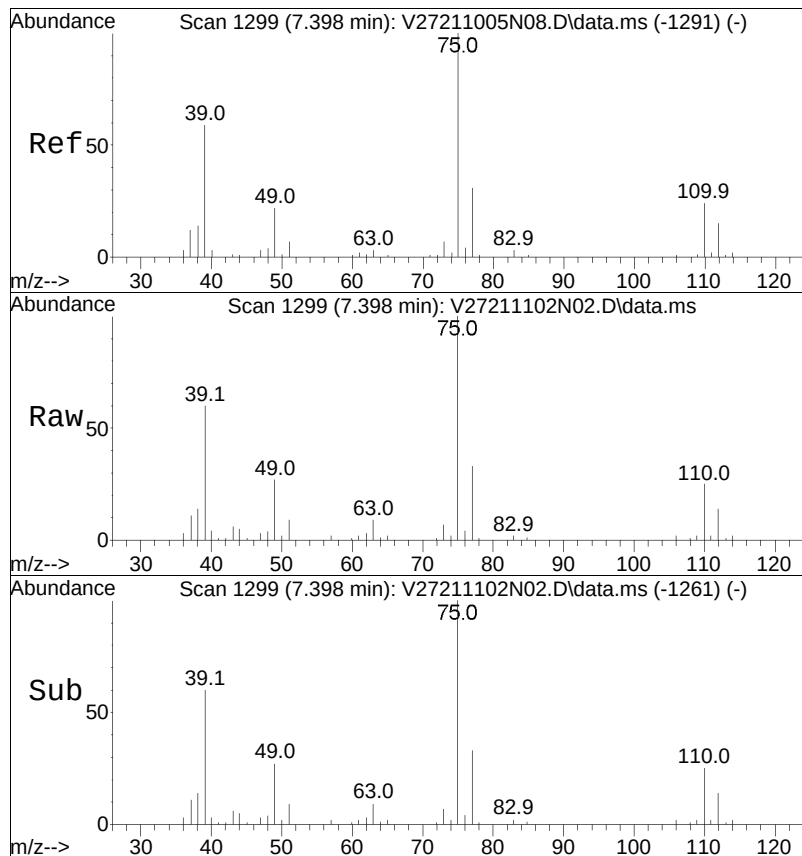




#57
 1,4-Dioxane
 Concen: 1558.35 ug/L
 RT: 6.989 min Scan# 1221
 Delta R.T. 0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

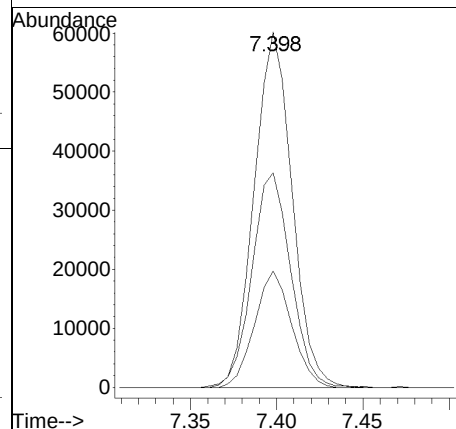
Tgt Ion:	88	Resp:	32135
Ion Ratio	Lower	Upper	
88	100		
58	109.7	76.7	115.1
43	39.7	36.2	54.2

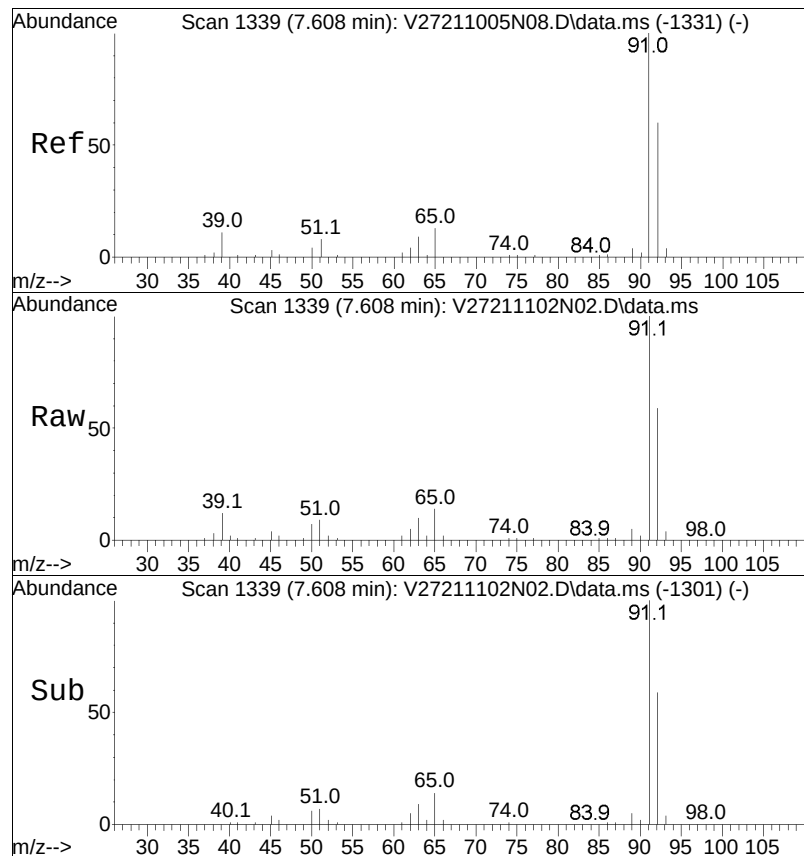




#58
 cis-1,3-Dichloropropene
 Concen: 39.84 ug/L
 RT: 7.398 min Scan# 1299
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

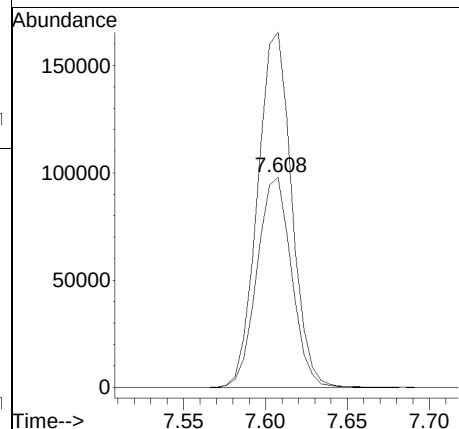
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4
39	61.8	50.1	75.1

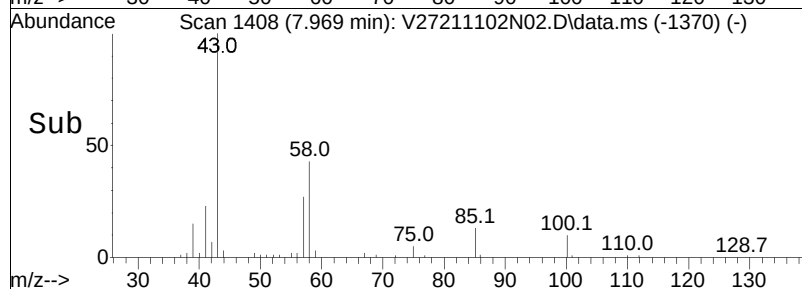
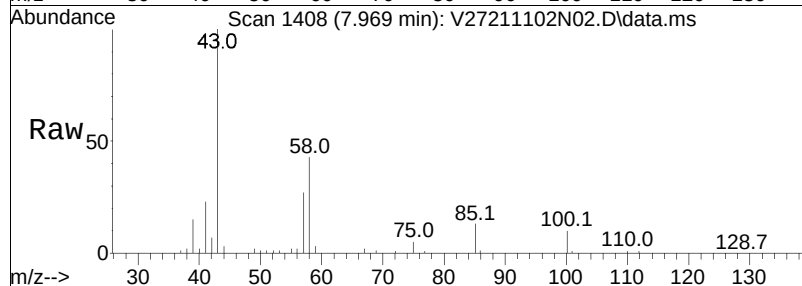
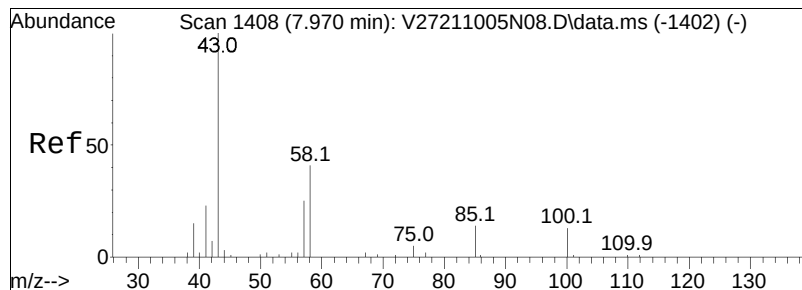




#61
Toluene
Concen: 35.14 ug/L
RT: 7.608 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

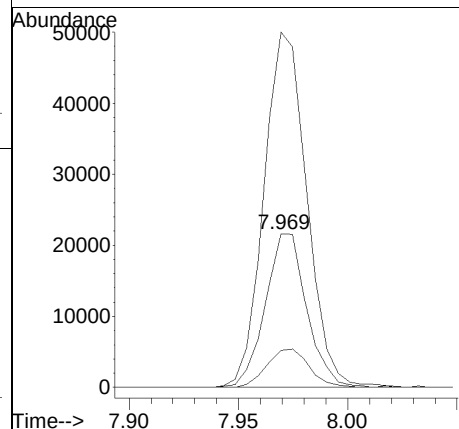
Tgt	Ion	Resp	Lower	Upper
92	100			
91	166.8	143357	139.8	209.6

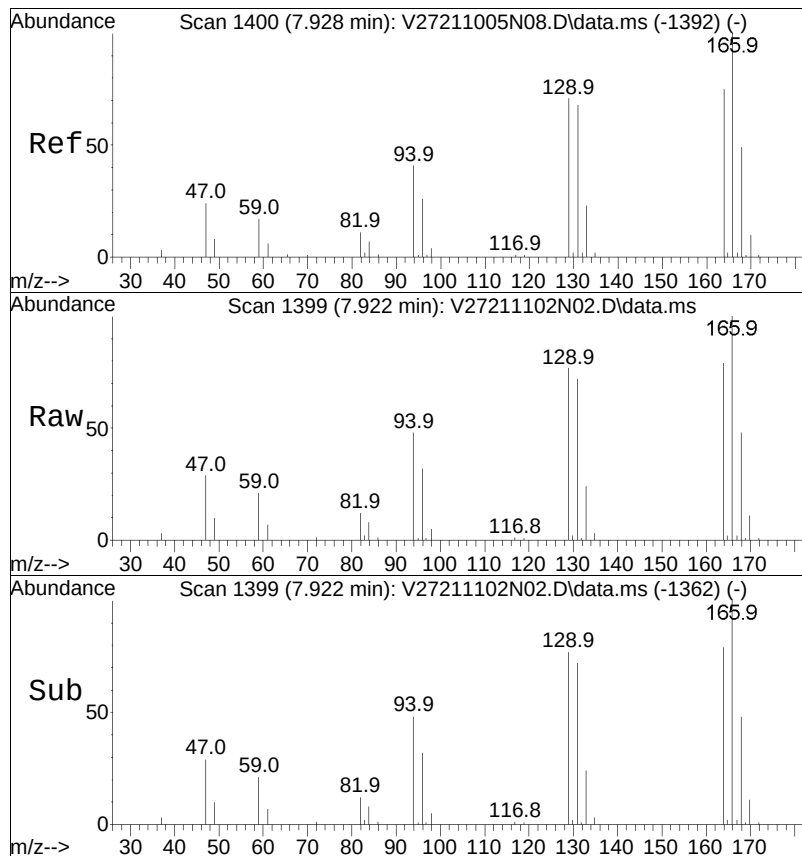




#62
 4-Methyl-2-pentanone
 Concen: 42.90 ug/L
 RT: 7.969 min Scan# 1408
 Delta R.T. -0.001 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

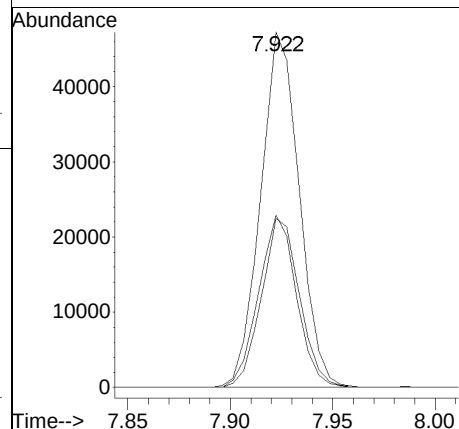
Tgt Ion	Ratio	Lower	Upper
58	100		
100	25.6	20.2	30.2
43	239.1	196.6	295.0

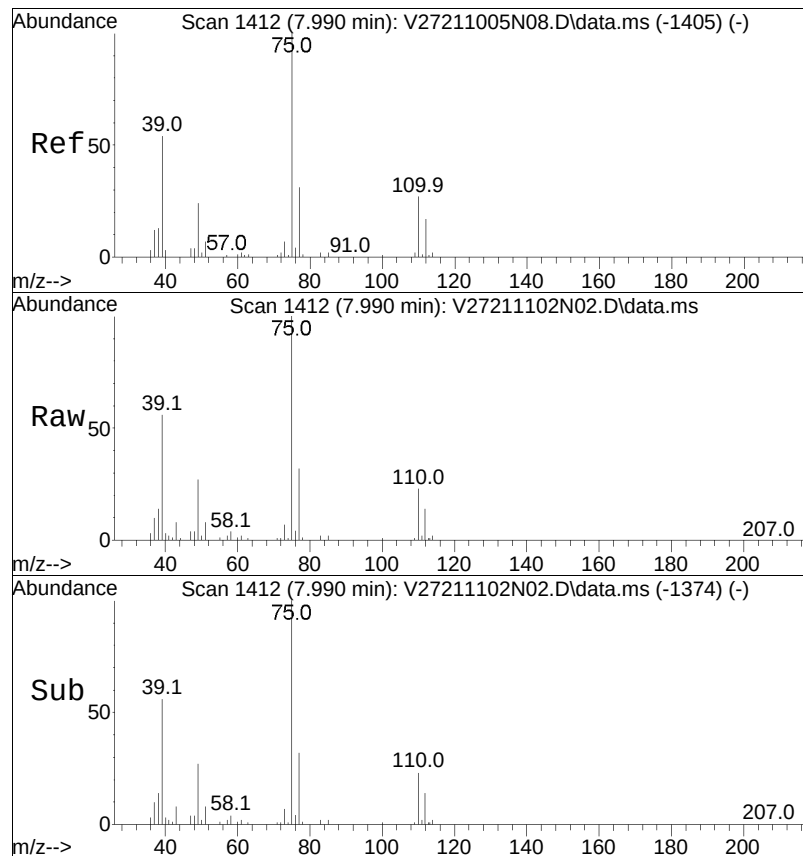




#63
 Tetrachloroethene
 Concen: 39.81 ug/L
 RT: 7.922 min Scan# 1399
 Delta R.T. -0.006 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

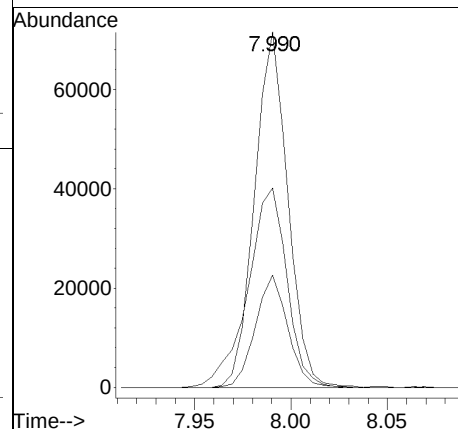
Tgt	Ion:166	Resp:	61907
Ion	Ratio	Lower	Upper
166	100		
168	47.0	28.2	68.2
94	47.4	38.4	78.4

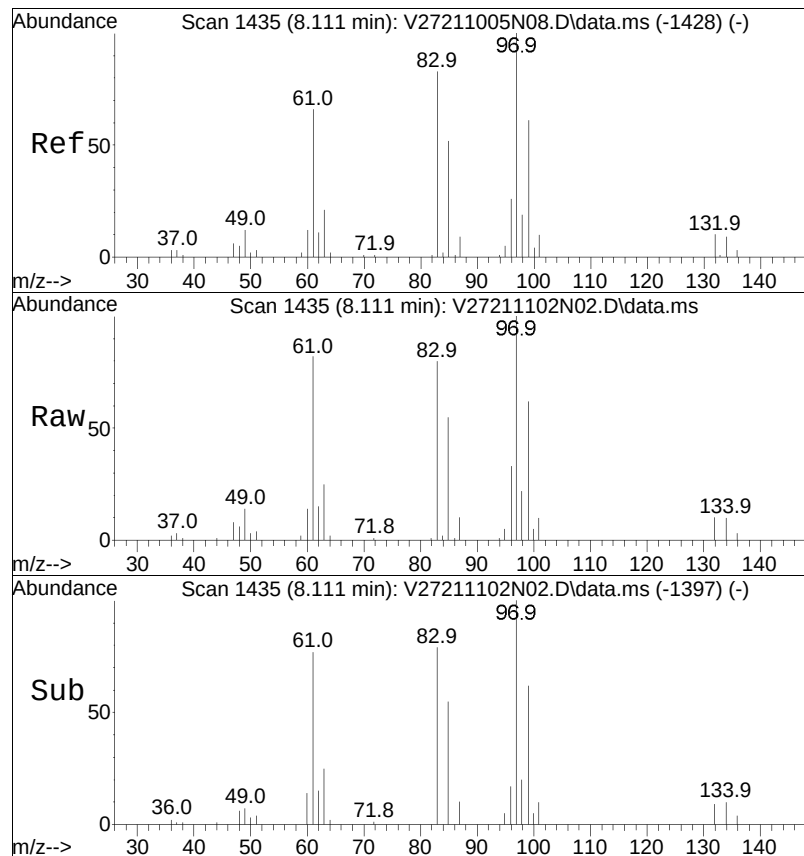




#65
 trans-1,3-Dichloropropene
 Concen: 40.56 ug/L
 RT: 7.990 min Scan# 1412
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

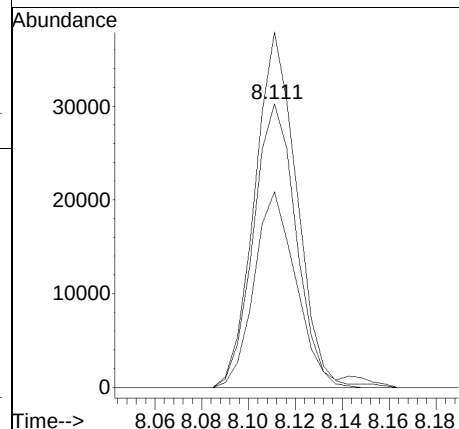
Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.8	12.4	52.4
39	66.3	42.8	82.8

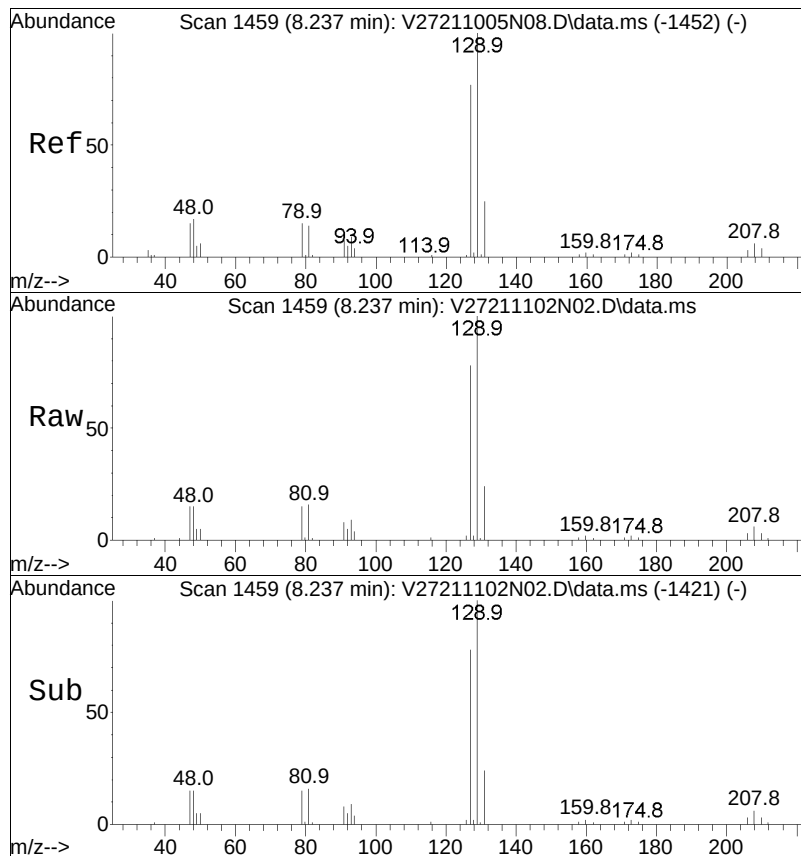




#68
 1,1,2-Trichloroethane
 Concen: 35.86 ug/L
 RT: 8.111 min Scan# 1435
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

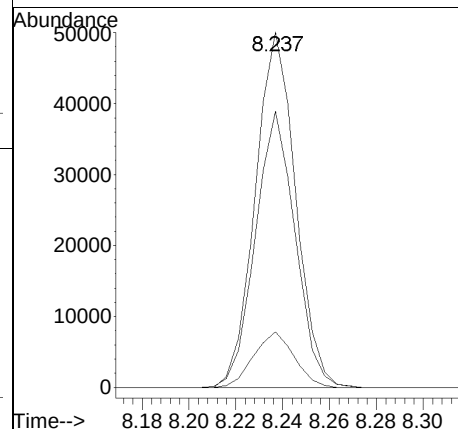
Tgt Ion	Ratio	Lower	Upper
83	100		
97	123.8	89.8	129.8
85	70.4	44.4	84.4

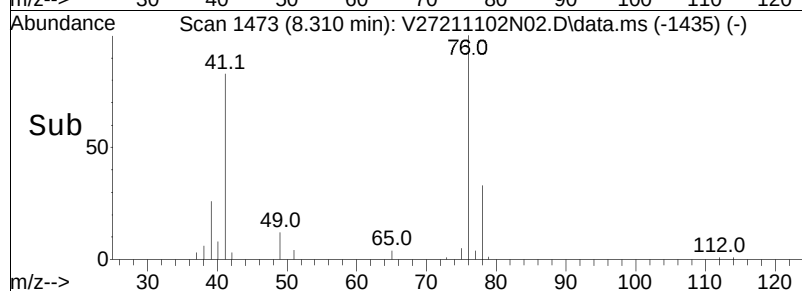
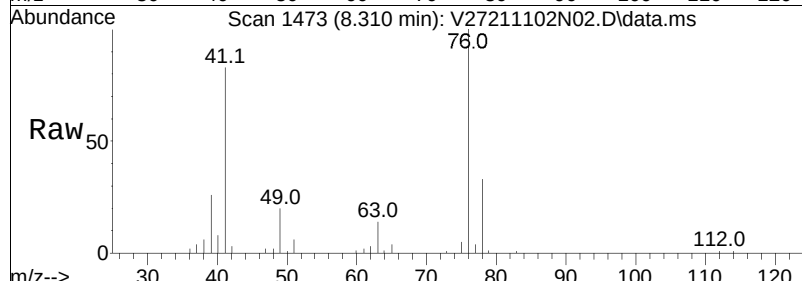
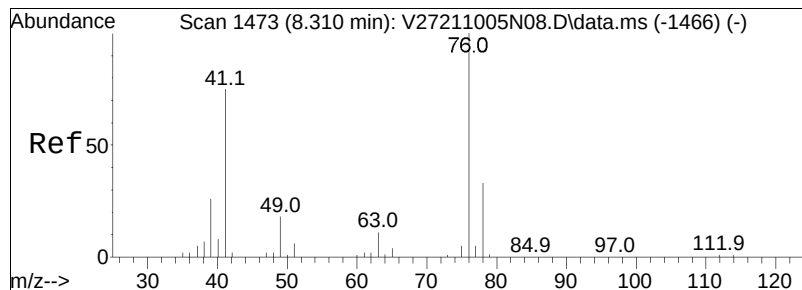




#69
 Chlorodibromomethane
 Concen: 40.73 ug/L
 RT: 8.237 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

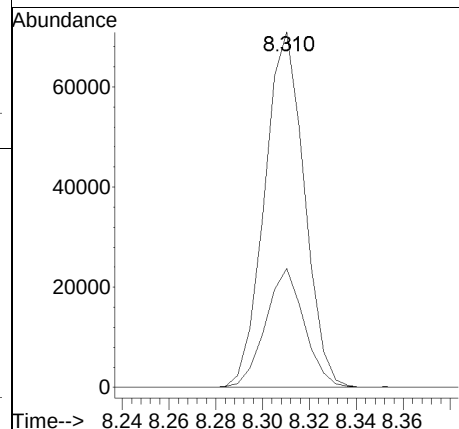
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	59939		
81	15.7		2.9	42.9
127	76.8		57.8	97.8

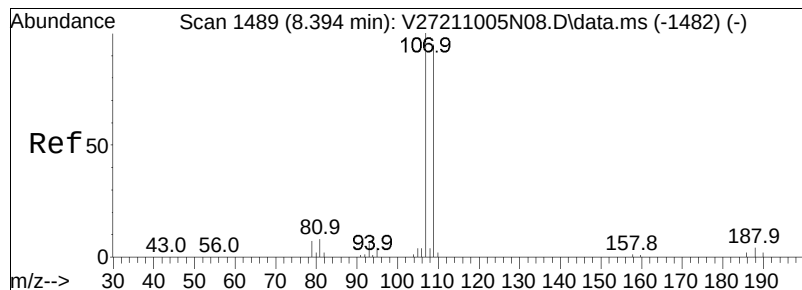




#70
 1,3-Dichloropropane
 Concen: 39.03 ug/L
 RT: 8.310 min Scan# 1473
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

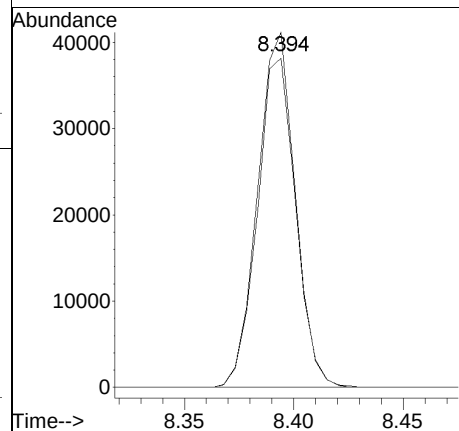
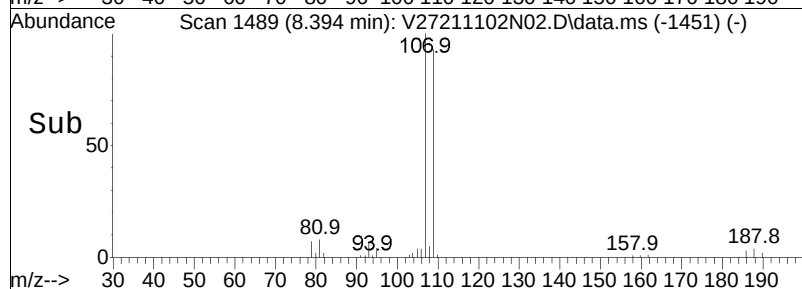
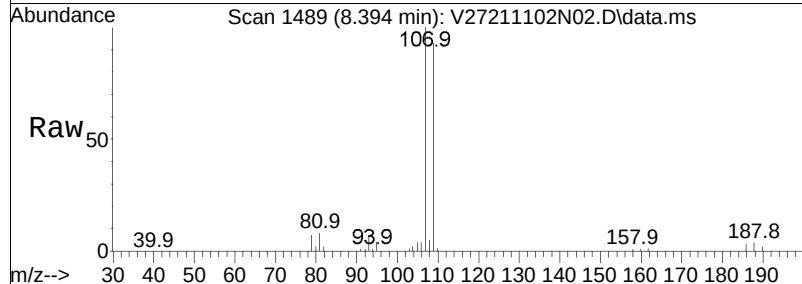
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

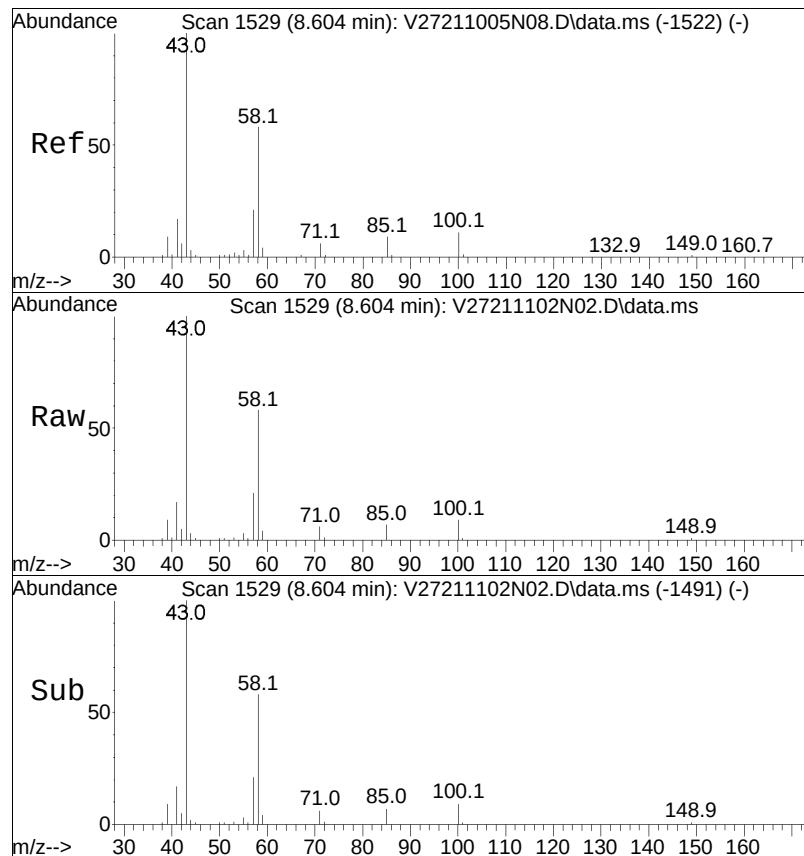




#71
 1,2-Dibromoethane
 Concen: 40.80 ug/L
 RT: 8.394 min Scan# 1489
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

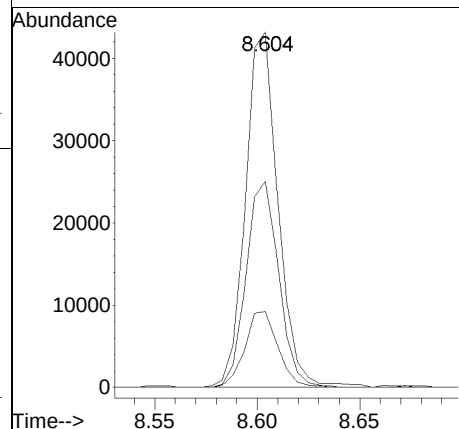
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.3	111.5

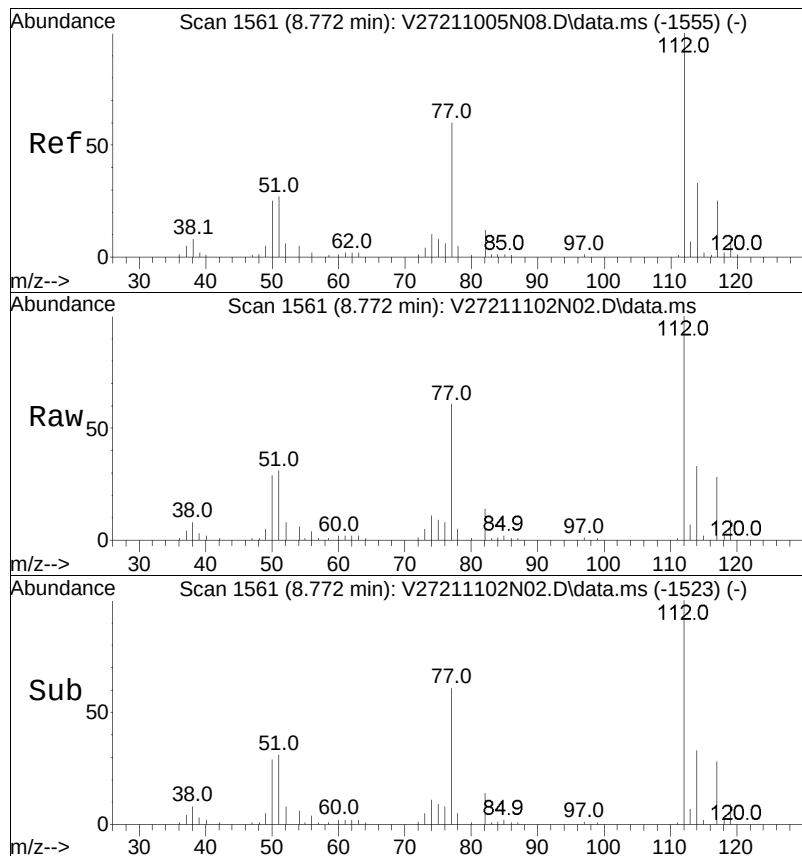




#72
 2-Hexanone
 Concen: 33.17 ug/L
 RT: 8.604 min Scan# 1529
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

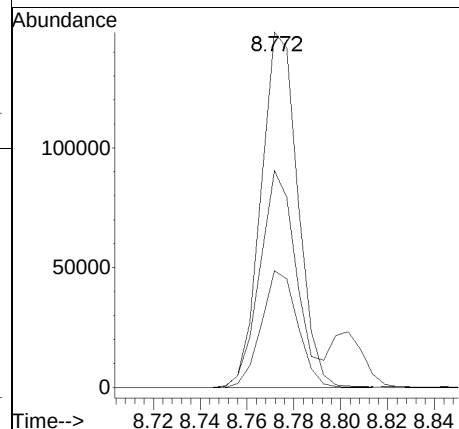
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	57.9	41.2	61.8	
57	22.0	17.2	25.8	

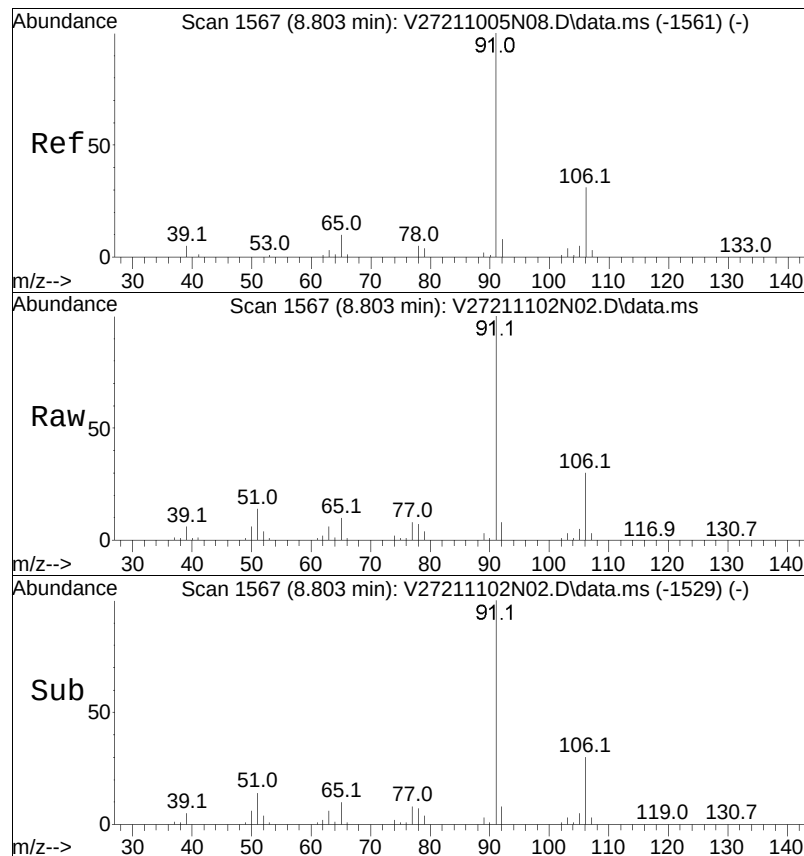




#73
 Chlorobenzene
 Concen: 36.43 ug/L
 RT: 8.772 min Scan# 1561
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

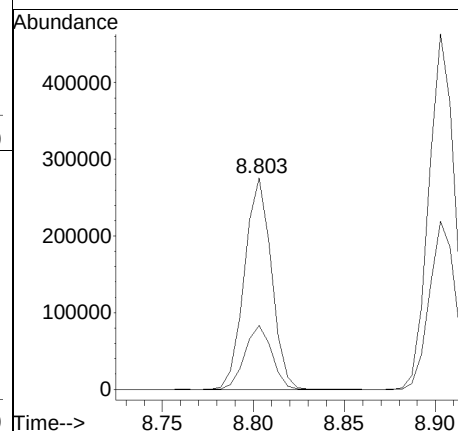
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		161966		
77	61.5	55.4		83.0	
114	32.4	25.4		38.2	

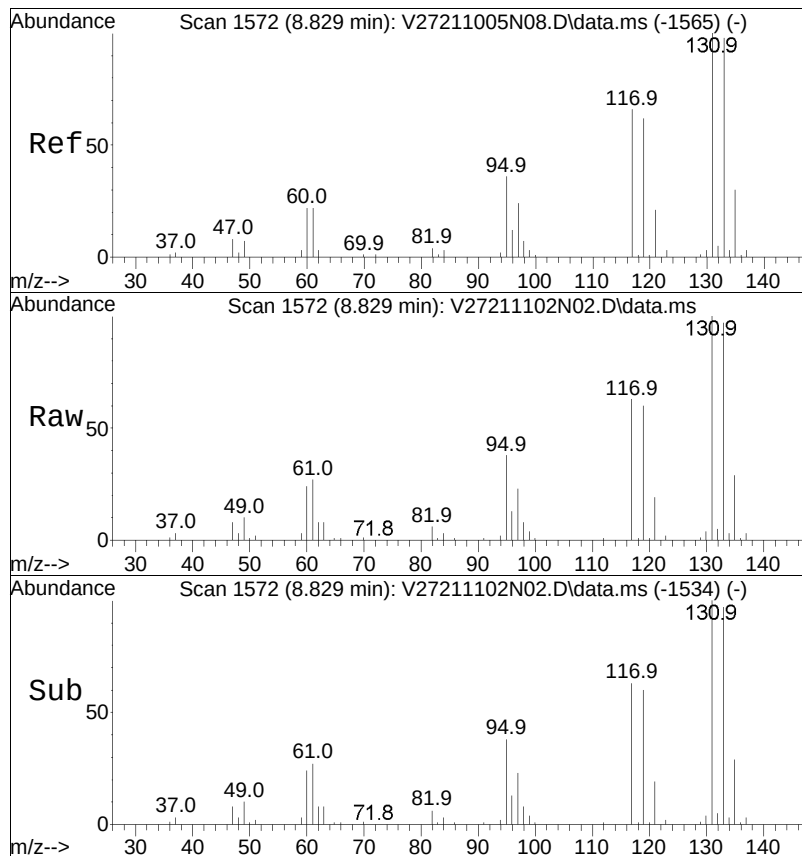




#74
 Ethylbenzene
 Concen: 36.41 ug/L
 RT: 8.803 min Scan# 1567
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

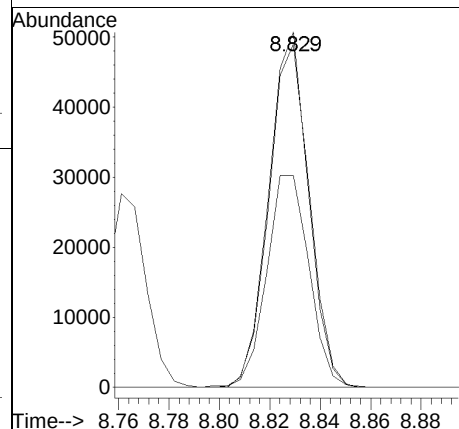
Tgt	Ion	Resp	Lower	Upper
91	100	284192		
106	30.1	24.3	36.5	

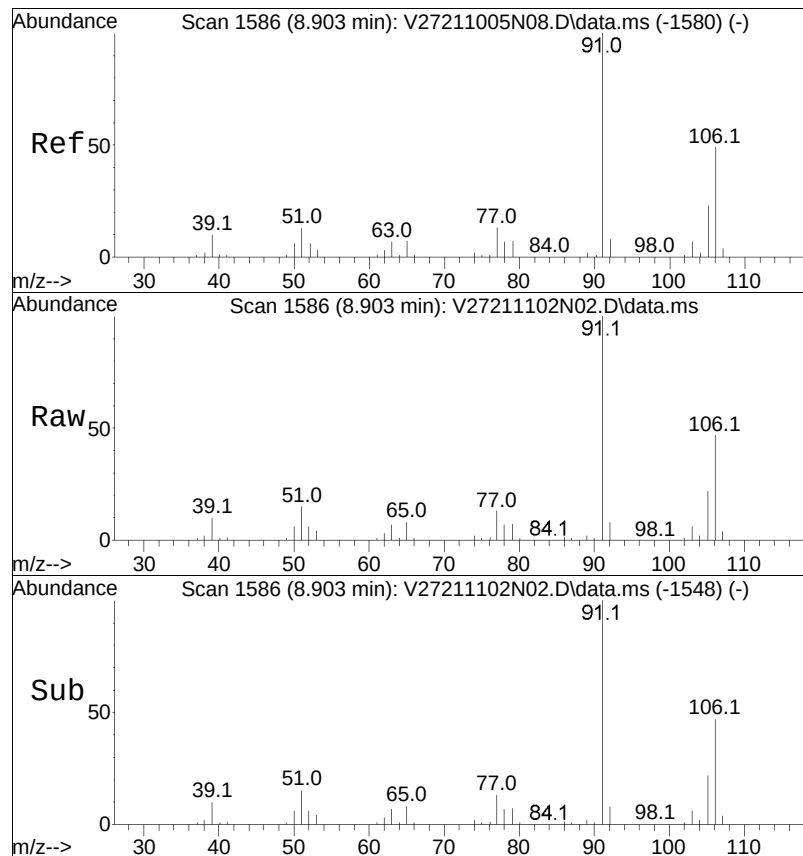




#75
 1,1,1,2-Tetrachloroethane
 Concen: 40.53 ug/L
 RT: 8.829 min Scan# 1572
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

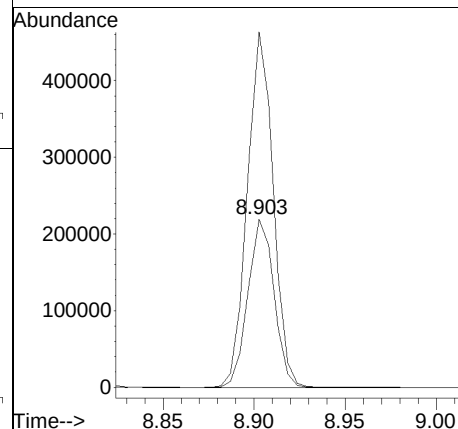
Tgt Ion	Ratio	Lower	Upper
131	100		
133	99.0	81.0	121.0
119	64.1	41.3	81.3

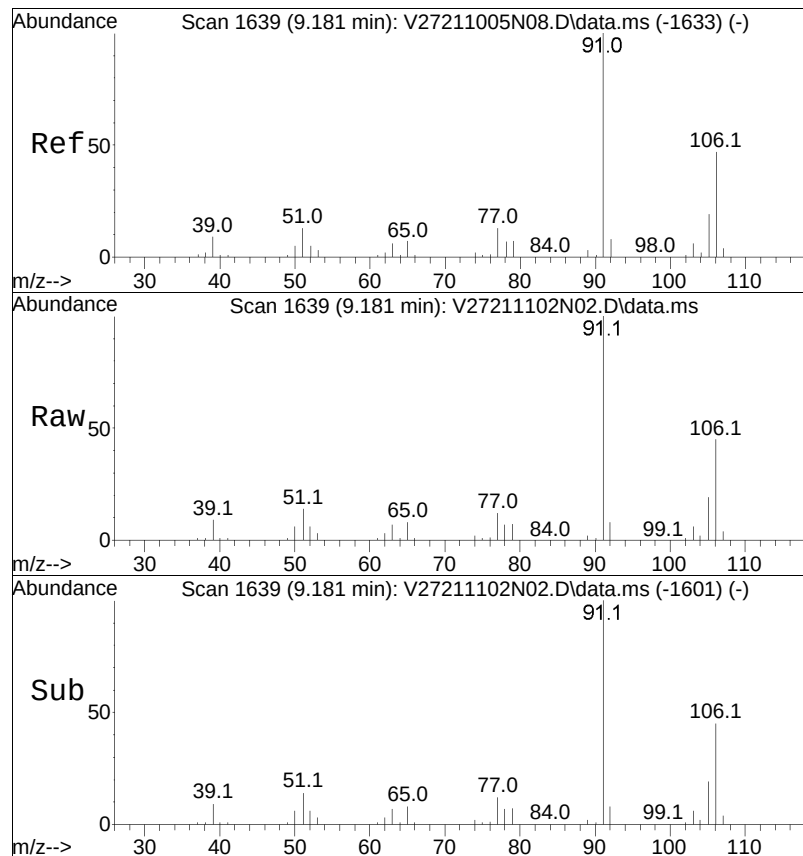




#76
 p/m Xylene
 Concen: 68.17 ug/L
 RT: 8.903 min Scan# 1586
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

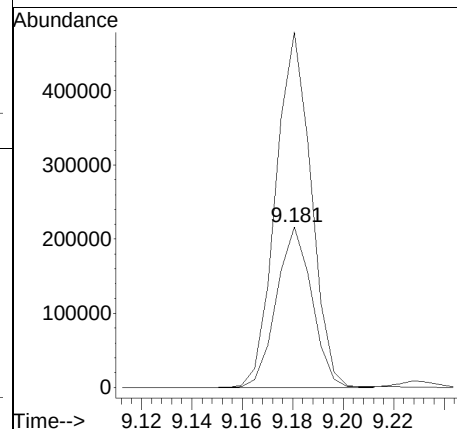
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	208.9	166.4	249.6	

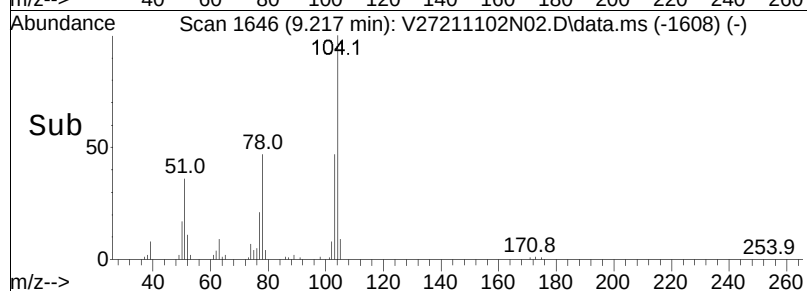
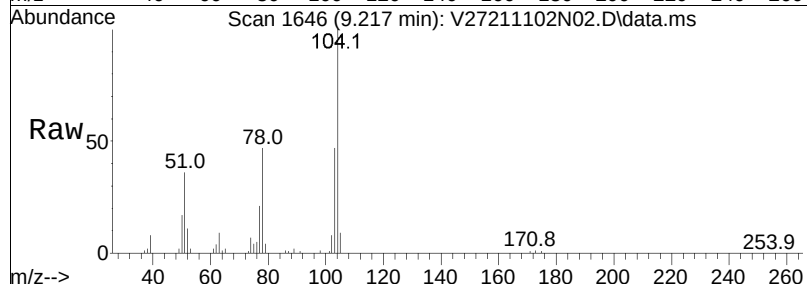
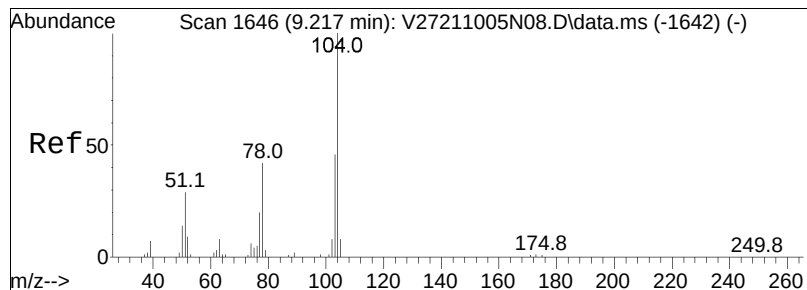




#77
o Xylene
Concen: 68.00 ug/L
RT: 9.181 min Scan# 1639
Delta R.T. -0.000 min
Lab File: V27211102N02.D
Acq: 02 Nov 2021 04:38 pm

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	221.6	182.6	273.8	





#78

Styrene

Concen: 67.99 ug/L

RT: 9.217 min Scan# 1646

Delta R.T. 0.000 min

Lab File: V27211102N02.D

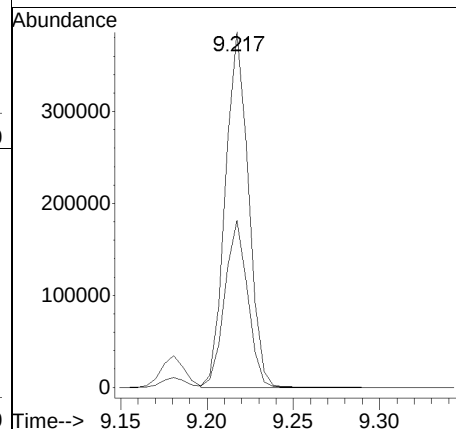
Acq: 02 Nov 2021 04:38 pm

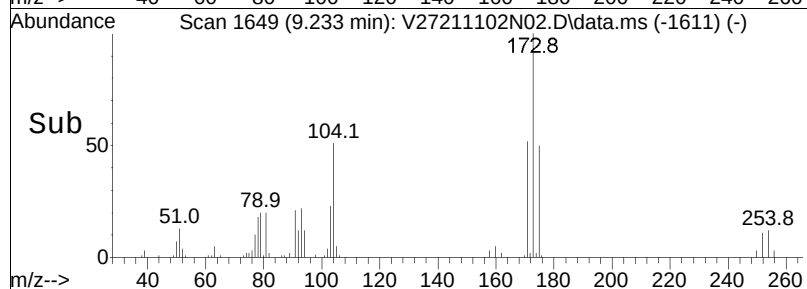
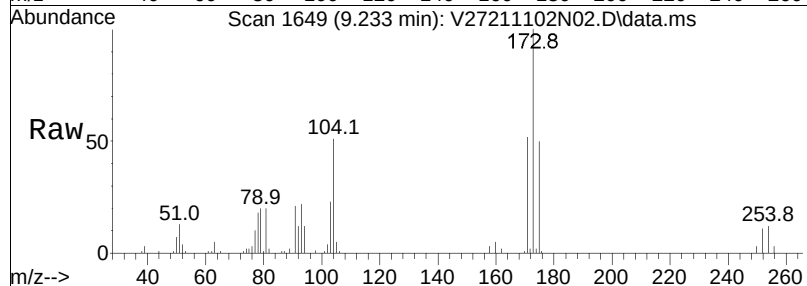
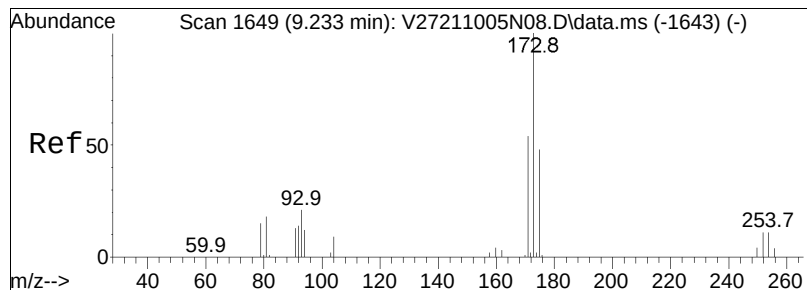
Tgt Ion:104 Resp: 360251

Ion Ratio Lower Upper

104 100

78 46.6 39.8 59.6





#80

Bromoform

Concen: 41.06 ug/L

RT: 9.233 min Scan# 1649

Delta R.T. 0.000 min

Lab File: V27211102N02.D

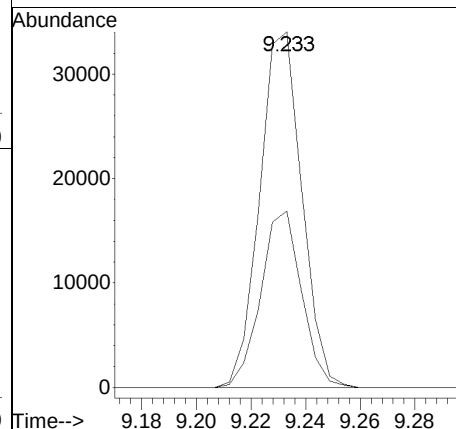
Acq: 02 Nov 2021 04:38 pm

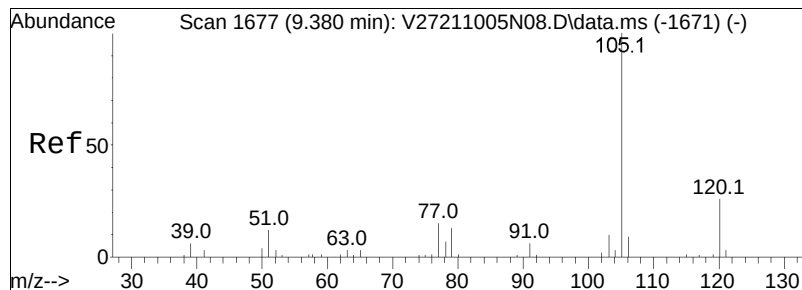
Tgt Ion:173 Resp: 36460

Ion Ratio Lower Upper

173 100

175 48.2 31.5 71.5





#82

Isopropylbenzene

Concen: 38.54 ug/L

RT: 9.380 min Scan# 1677

Delta R.T. -0.000 min

Lab File: V27211102N02.D

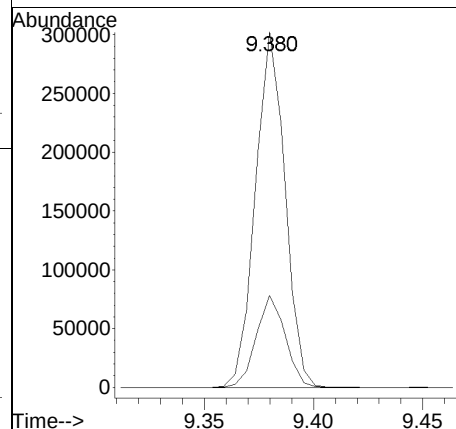
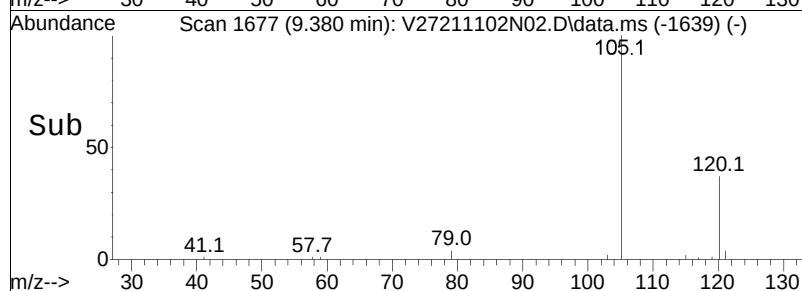
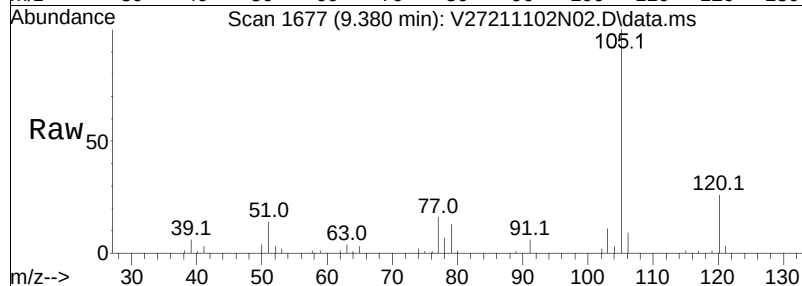
Acq: 02 Nov 2021 04:38 pm

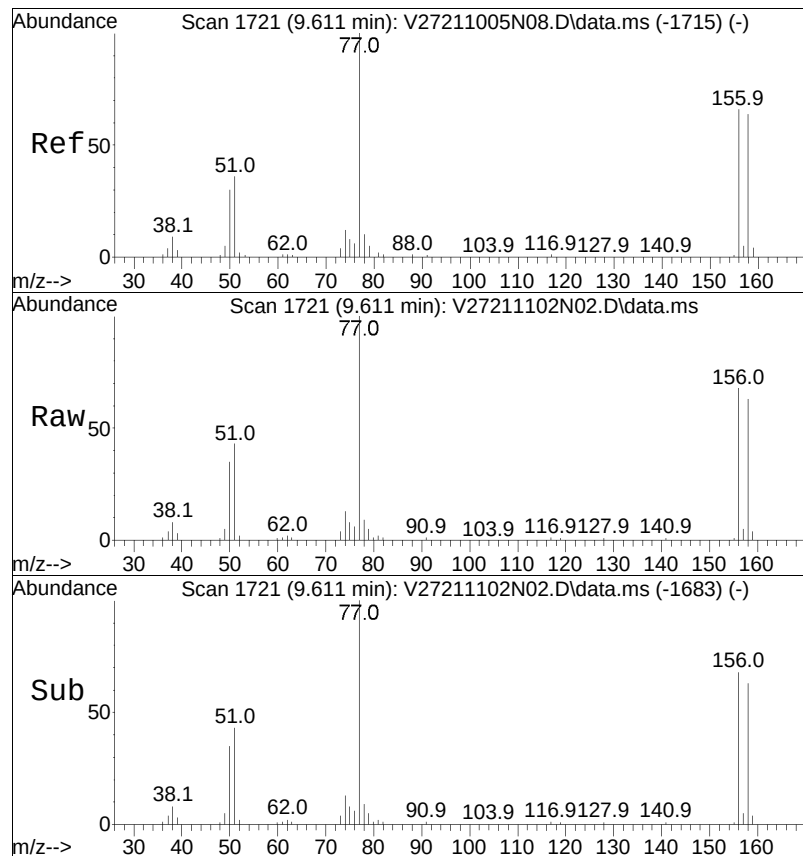
Tgt Ion:105 Resp: 284305

Ion Ratio Lower Upper

105 100

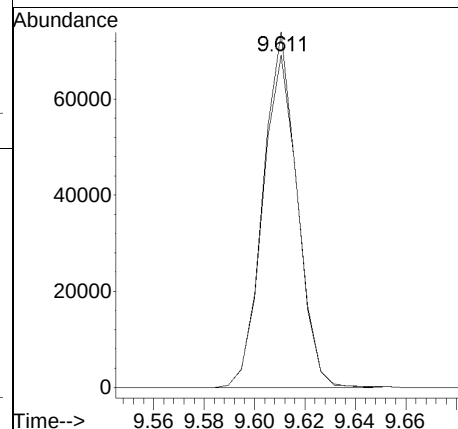
120 25.4 4.8 44.8

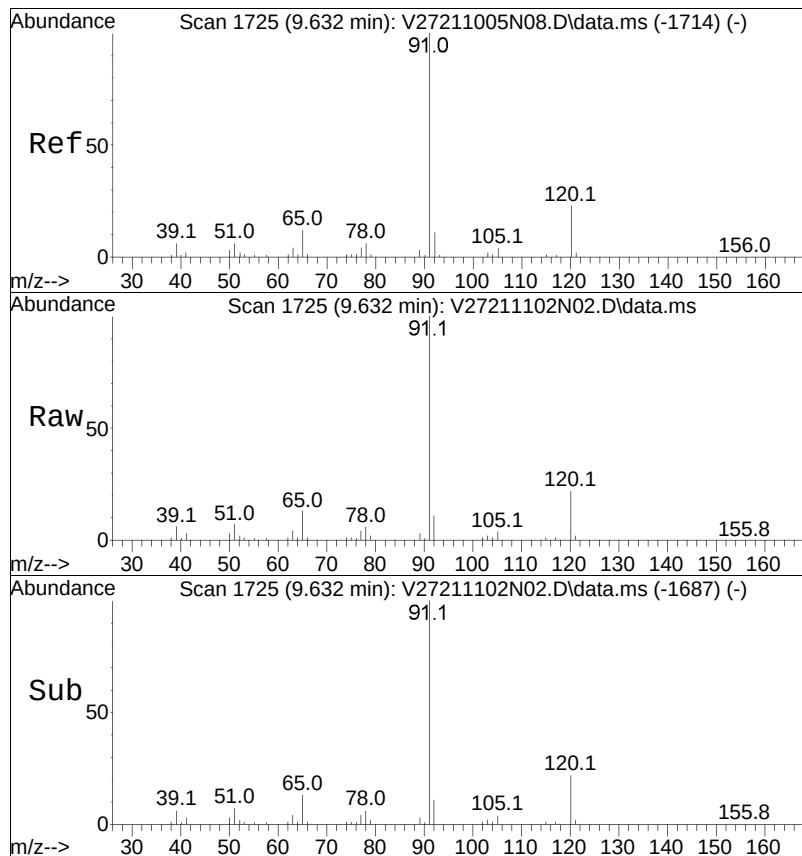




#84
 Bromobenzene
 Concen: 38.39 ug/L
 RT: 9.611 min Scan# 1721
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

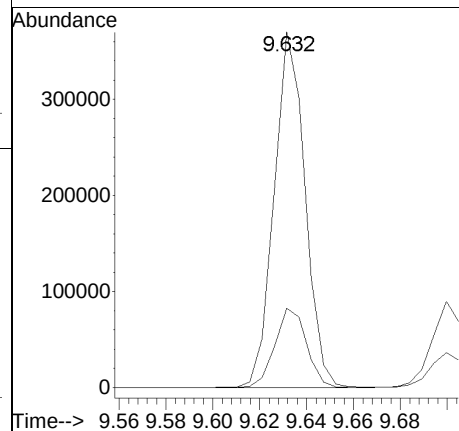
Tgt Ion:156 Resp: 69229
 Ion Ratio Lower Upper
 156 100
 158 96.5 75.9 113.9

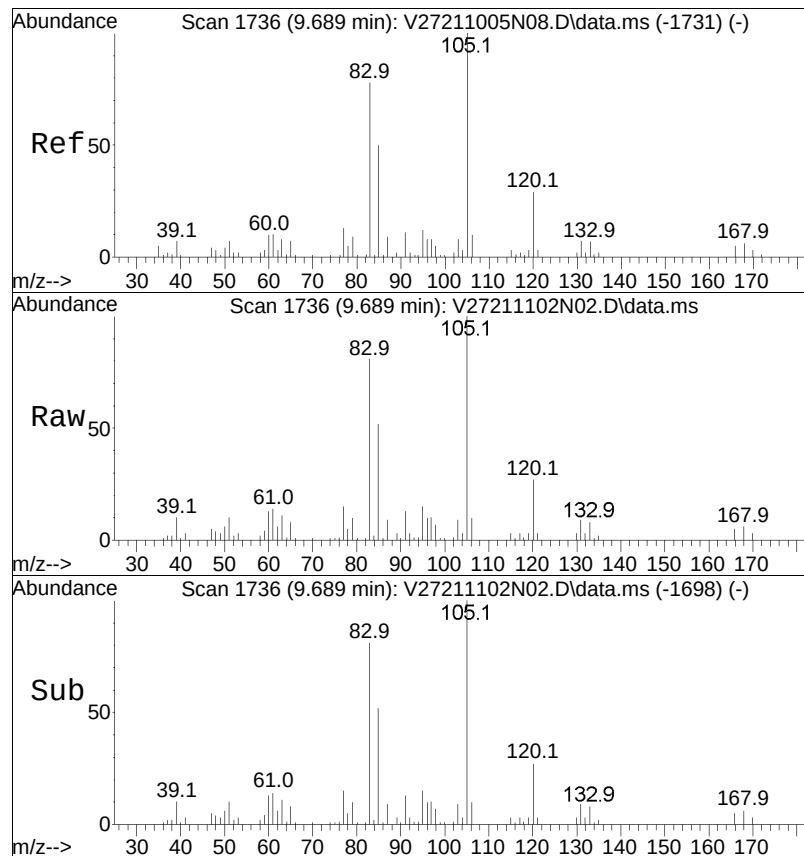




#85
 n-Propylbenzene
 Concen: 37.97 ug/L
 RT: 9.632 min Scan# 1725
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

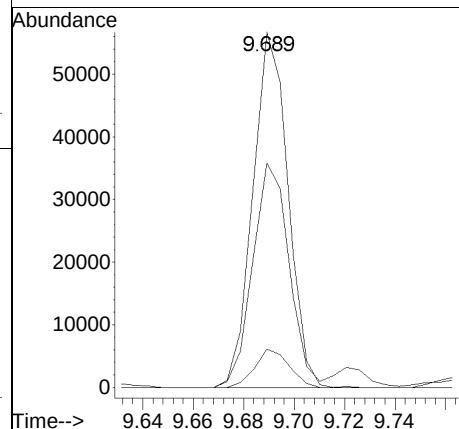
Tgt	Ion	Resp	339088
Ion	Ratio	Lower	Upper
91	100		
120	22.7	17.0	25.6

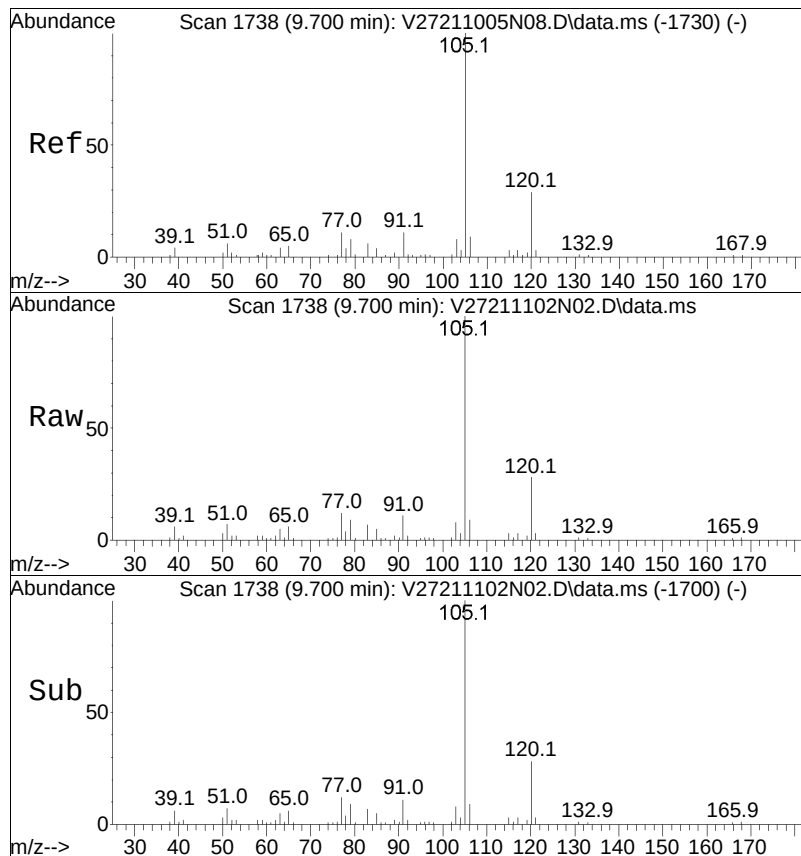




#87
 1,1,2,2-Tetrachloroethane
 Concen: 34.78 ug/L
 RT: 9.689 min Scan# 1736
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

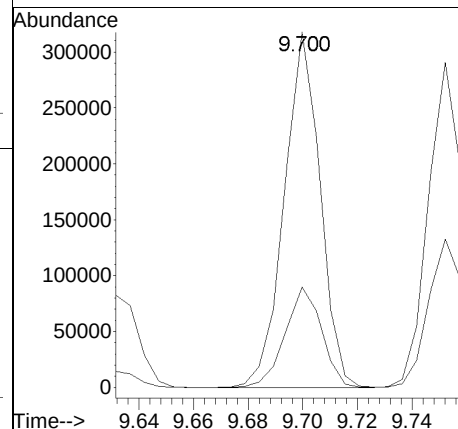
Tgt Ion:	83	Resp:	54829
Ion Ratio	Lower	Upper	
83	100		
131	10.5	0.0	30.4
85	65.5	45.4	85.4

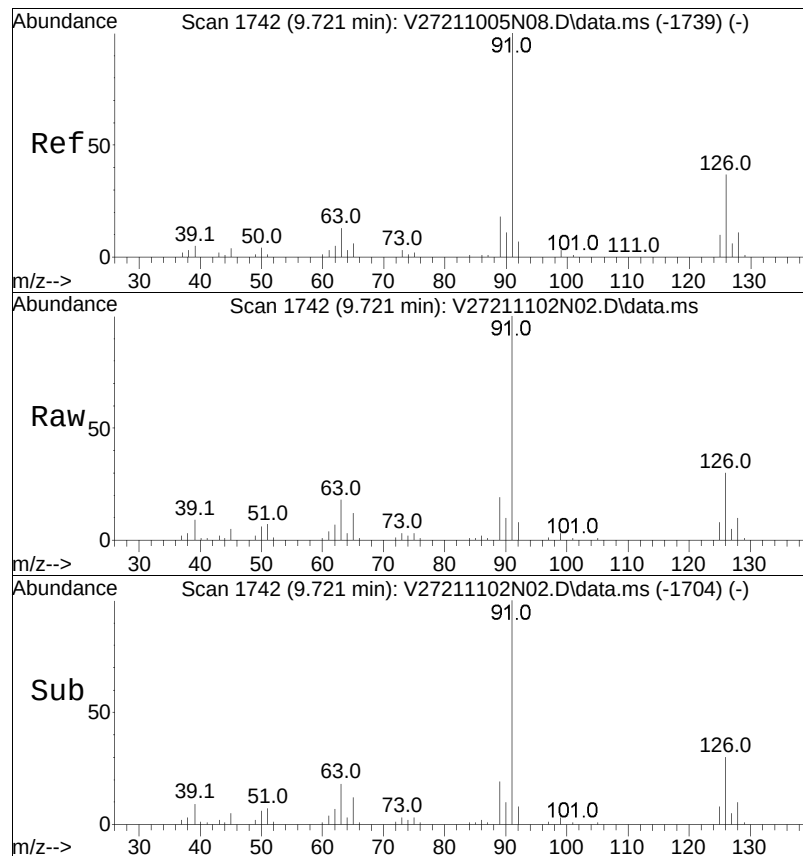




#88
 4-Ethyltoluene
 Concen: 37.93 ug/L
 RT: 9.700 min Scan# 1738
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

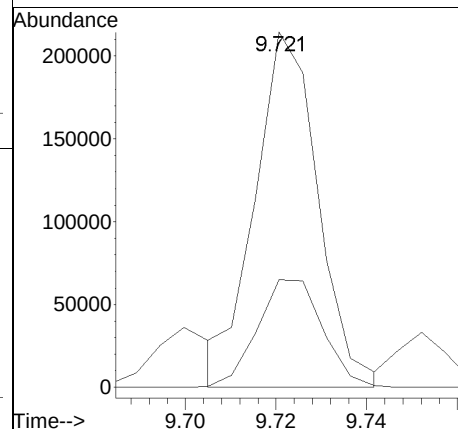
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.8	18.1	37.7

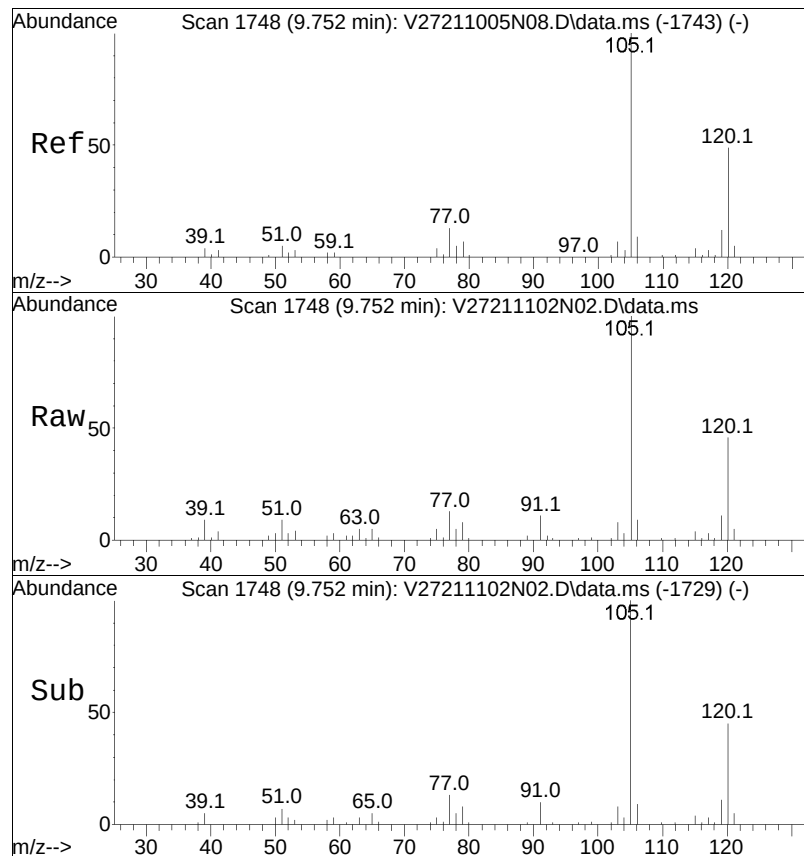




#89
 2-Chlorotoluene
 Concen: 37.54 ug/L M6
 RT: 9.721 min Scan# 1742
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

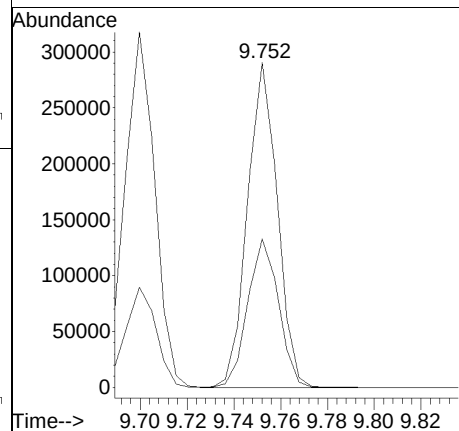
Tgt Ion:	91	Resp:	207023
Ion Ratio	Lower	Upper	
91	100		
126	31.6	21.5	32.3

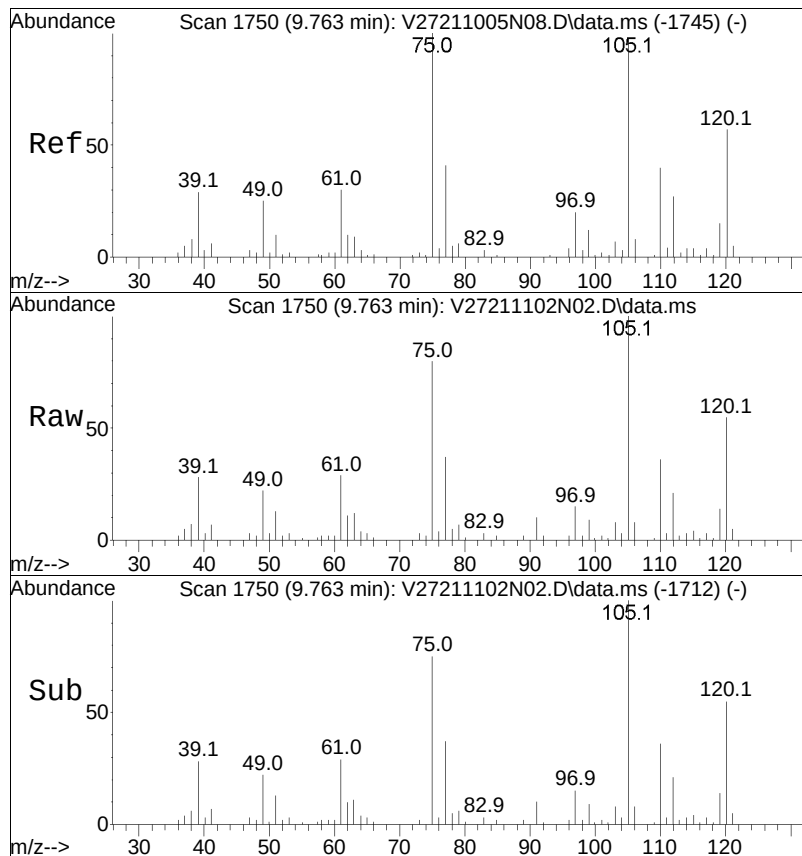




#90
 1,3,5-Trimethylbenzene
 Concen: 38.31 ug/L
 RT: 9.752 min Scan# 1748
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

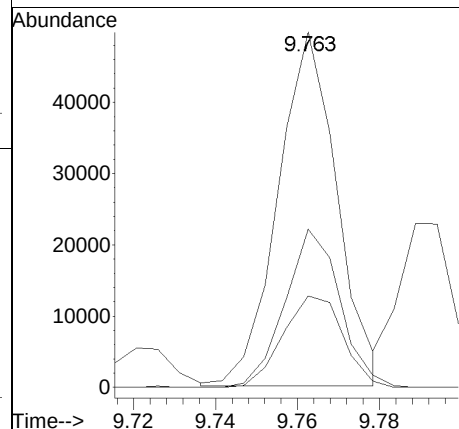
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	47.1		34.8	52.2	

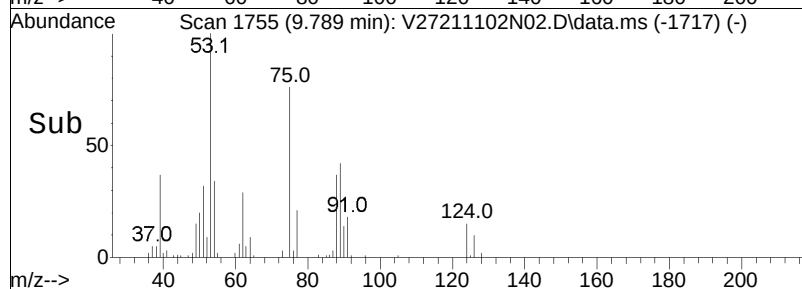
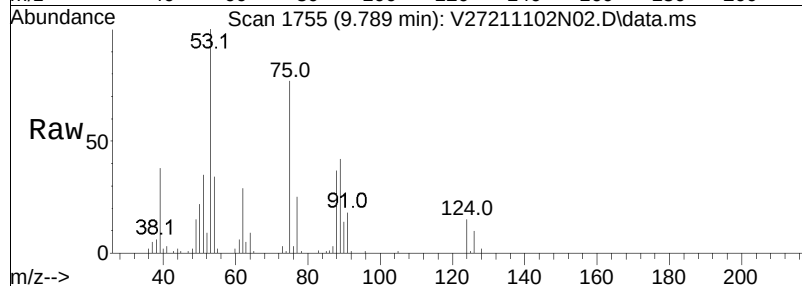
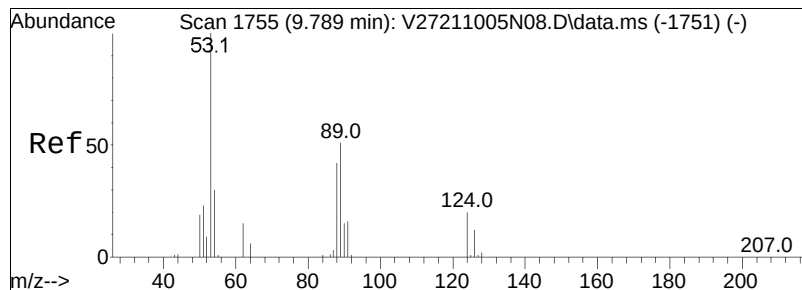




#91
 1,2,3-Trichloropropane
 Concen: 38.74 ug/L
 RT: 9.763 min Scan# 1750
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

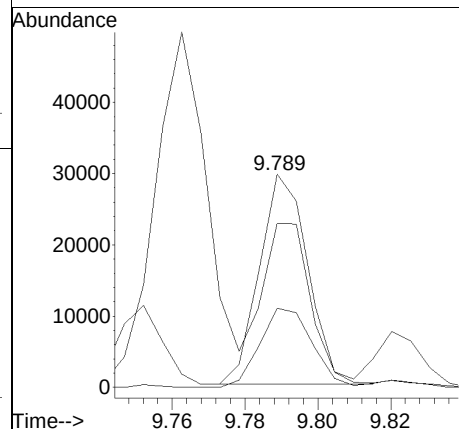
Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.6	25.4	52.8
112	26.4	15.6	32.4

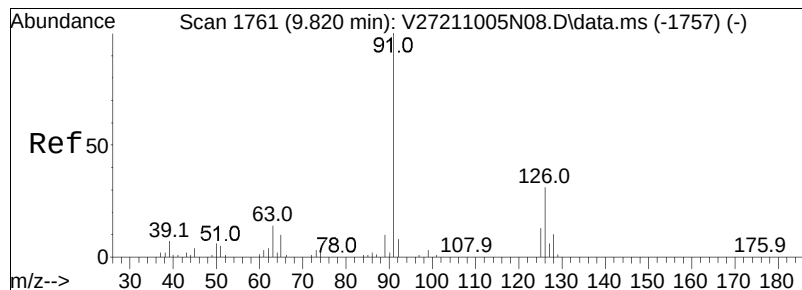




#92
 trans-1,4-Dichloro-2-butene
 Concen: 44.90 ug/L
 RT: 9.789 min Scan# 1755
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

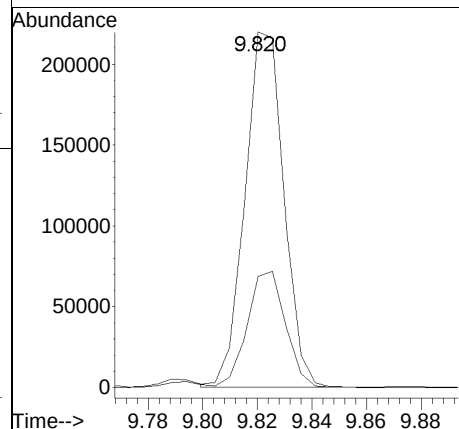
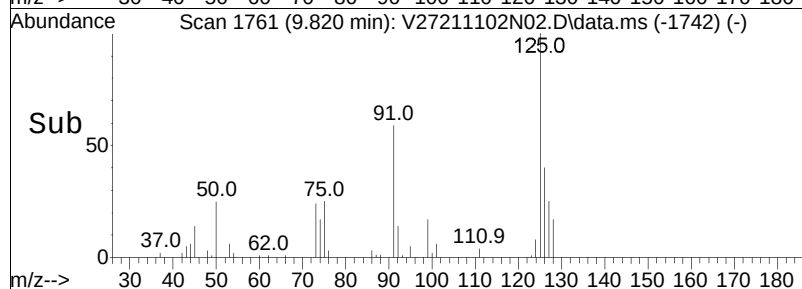
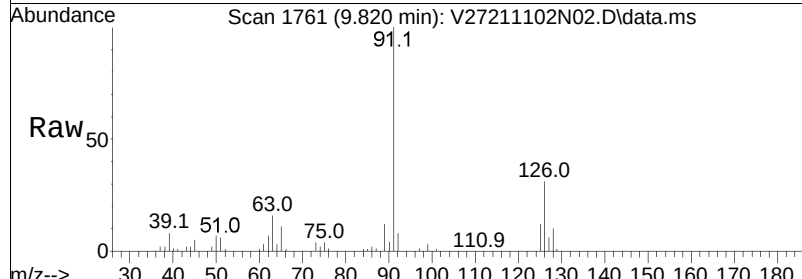
Tgt	Ion: 53	Resp:	27165
Ion	Ratio	Lower	Upper
53	100		
88	40.8	39.6	59.4
75	76.3	70.2	105.4

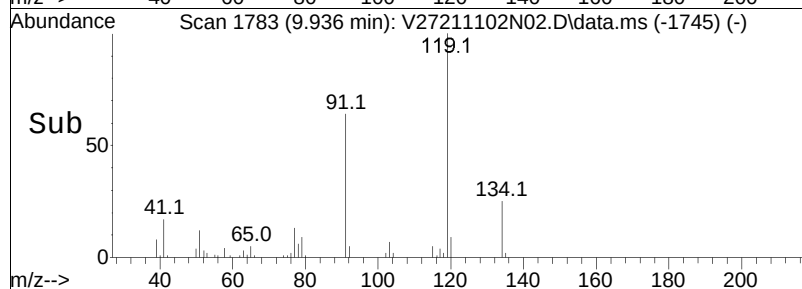
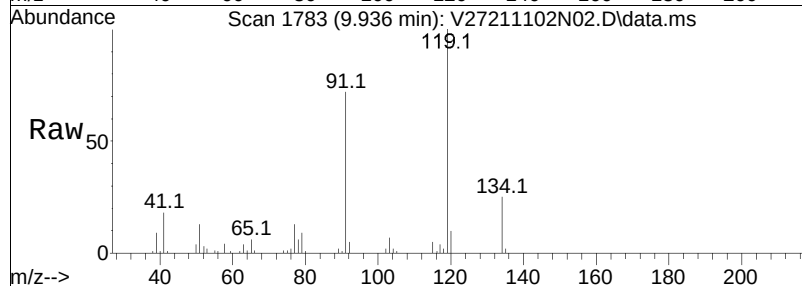
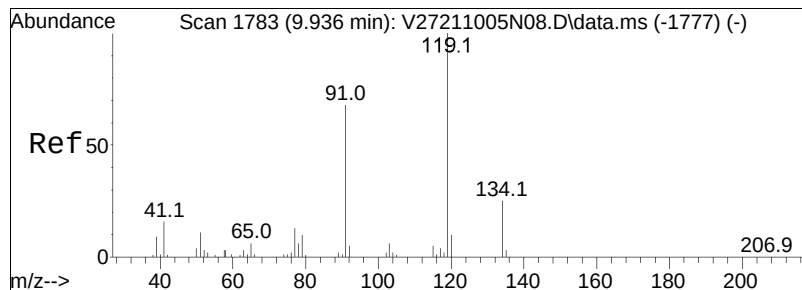




#93
 4-Chlorotoluene
 Concen: 37.90 ug/L
 RT: 9.820 min Scan# 1761
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

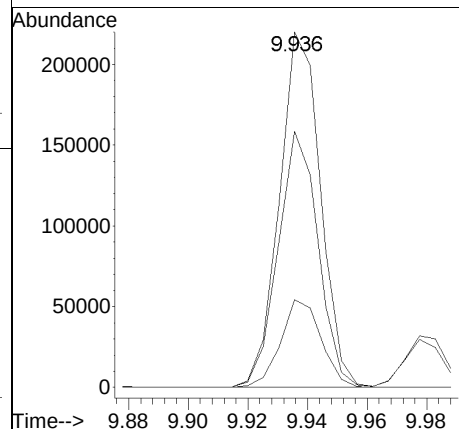
Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.1	24.6	36.8

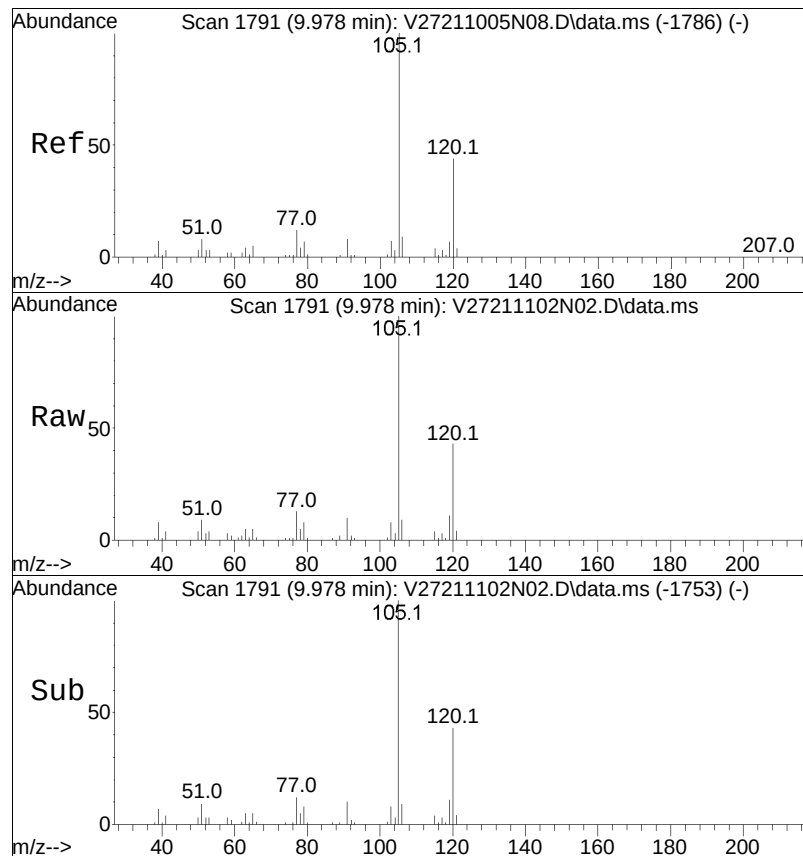




#94
 tert-Butylbenzene
 Concen: 38.19 ug/L
 RT: 9.936 min Scan# 1783
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

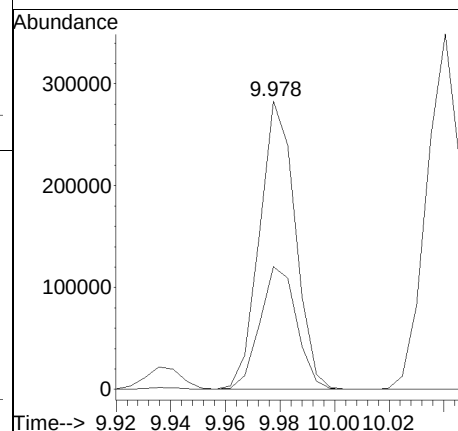
Tgt	Ion:119	Resp:	210788
Ion	Ratio	Lower	Upper
119	100		
91	70.3	51.4	77.2
134	24.4	18.3	27.5

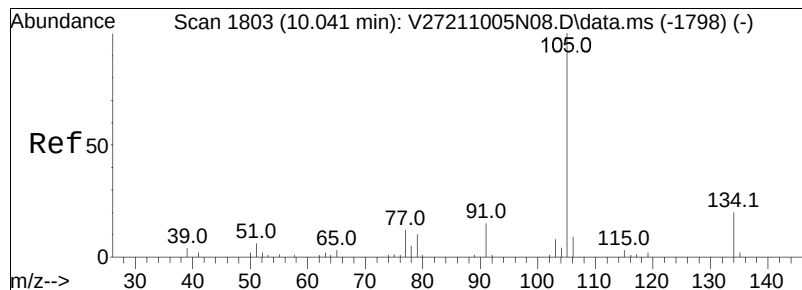




#97
 1,2,4-Trimethylbenzene
 Concen: 38.15 ug/L
 RT: 9.978 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

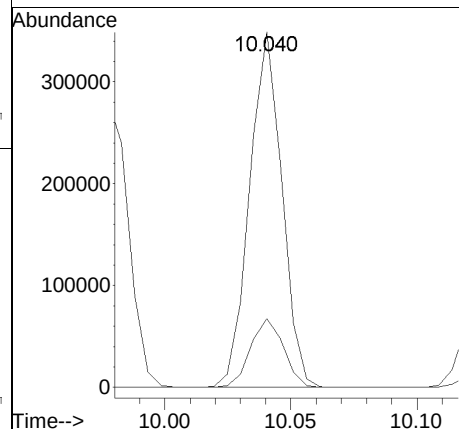
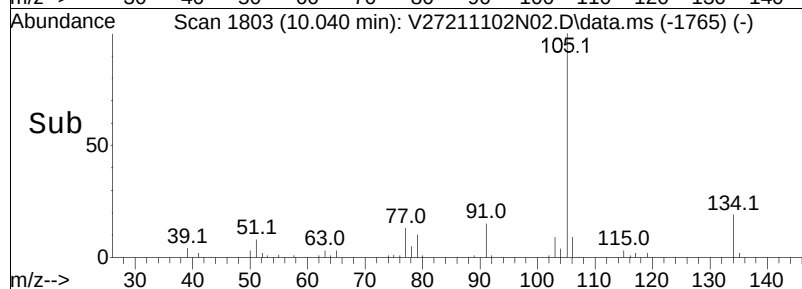
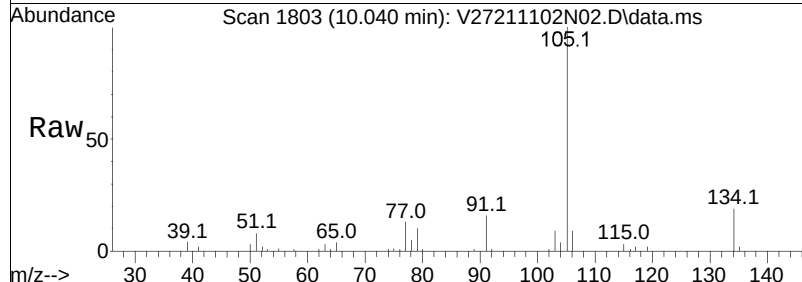
Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	33.4	50.0

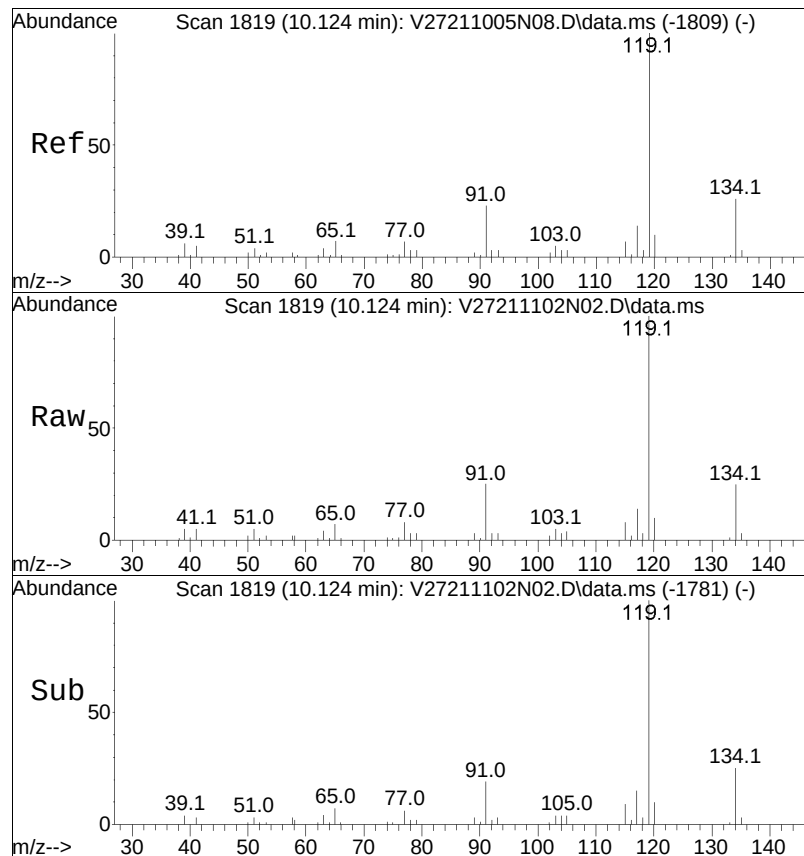




#98
 sec-Butylbenzene
 Concen: 37.69 ug/L
 RT: 10.040 min Scan# 1803
 Delta R.T. -0.001 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

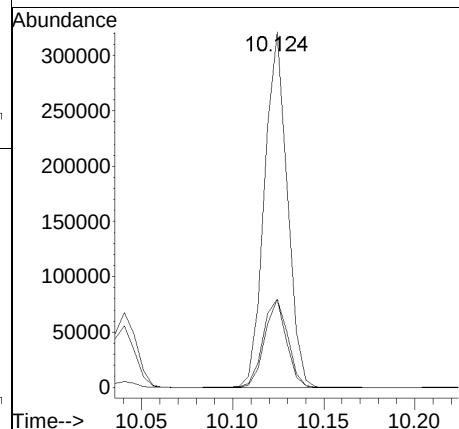
Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.8	12.5	26.1

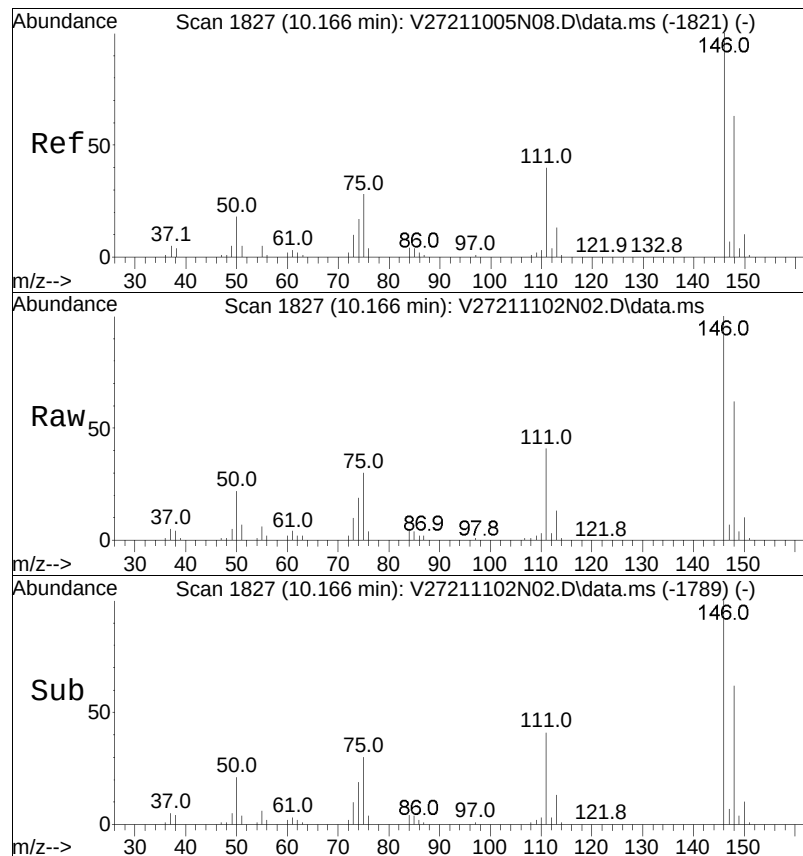




#99
 p-Isopropyltoluene
 Concen: 38.53 ug/L
 RT: 10.124 min Scan# 1819
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

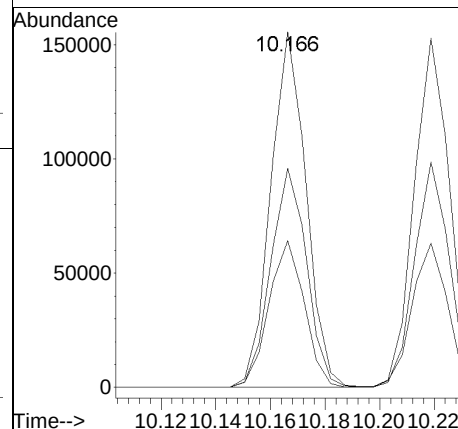
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	279767		
134	25.0		16.1	33.3
91	25.4		17.3	35.9

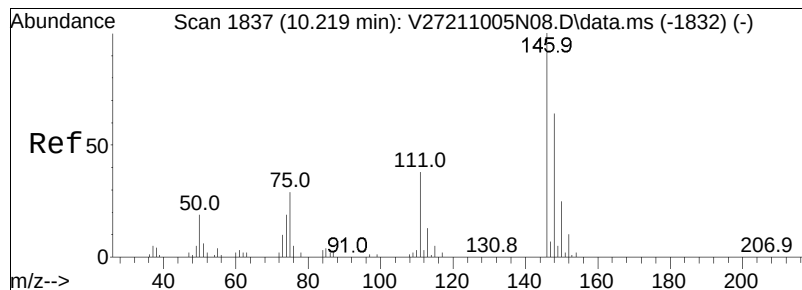




#100
 1,3-Dichlorobenzene
 Concen: 38.42 ug/L
 RT: 10.166 min Scan# 1827
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

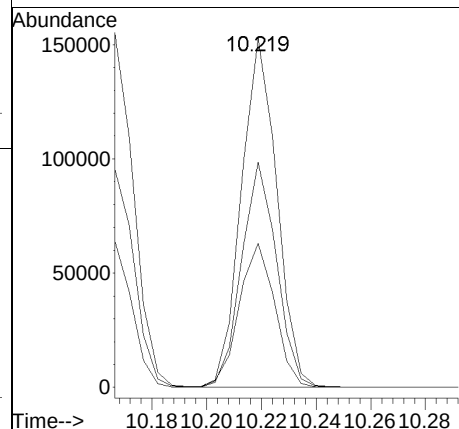
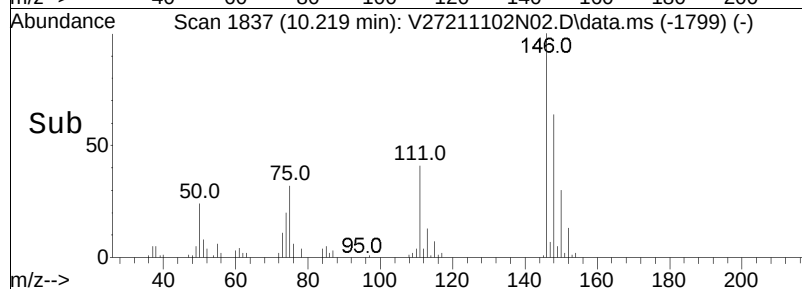
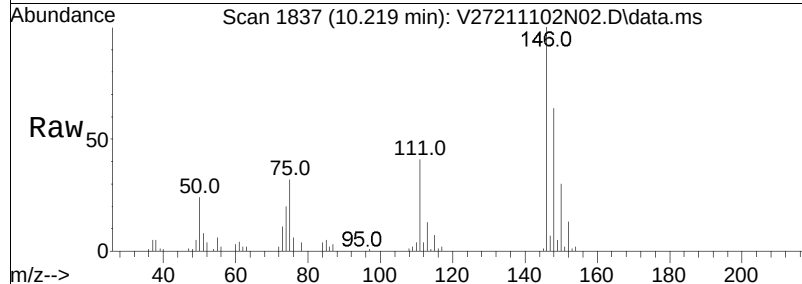
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	27.5	57.1
148	62.7	41.9	86.9

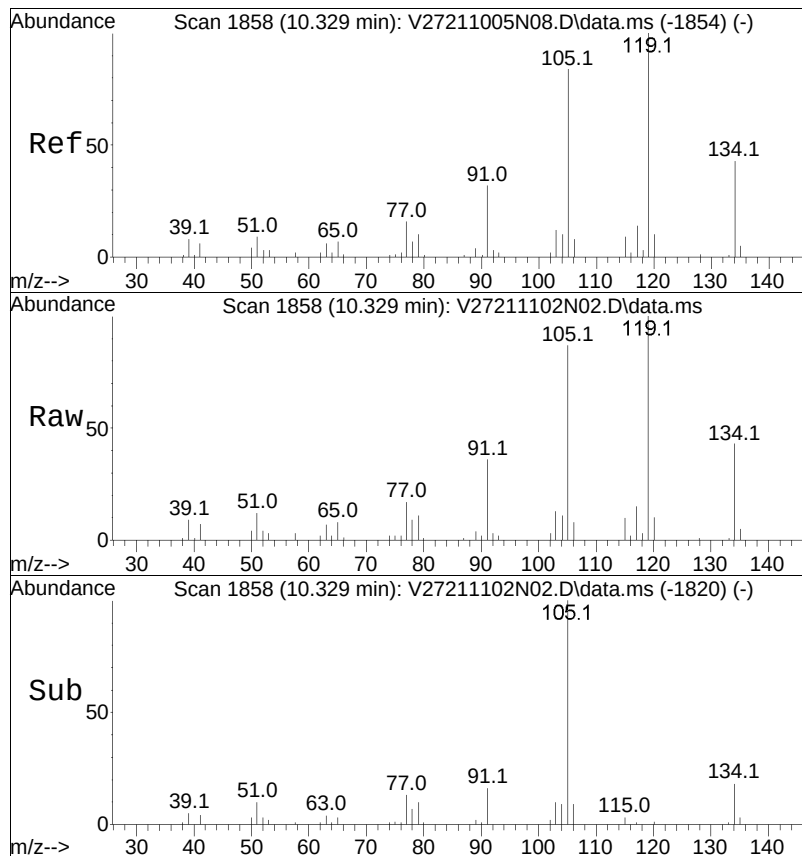




#101
 1,4-Dichlorobenzene
 Concen: 37.54 ug/L
 RT: 10.219 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

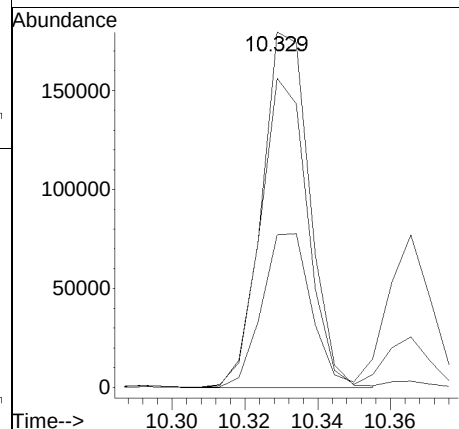
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	138416		
111	41.6		32.3	48.5
148	63.4		49.9	74.9

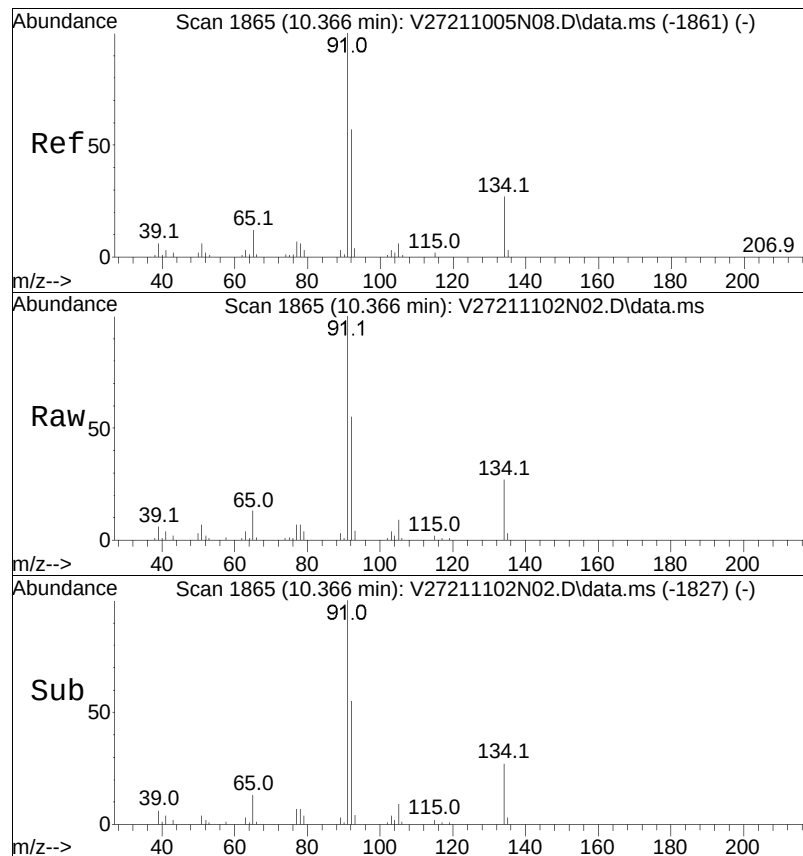




#102
 p-Diethylbenzene
 Concen: 37.78 ug/L
 RT: 10.329 min Scan# 1858
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

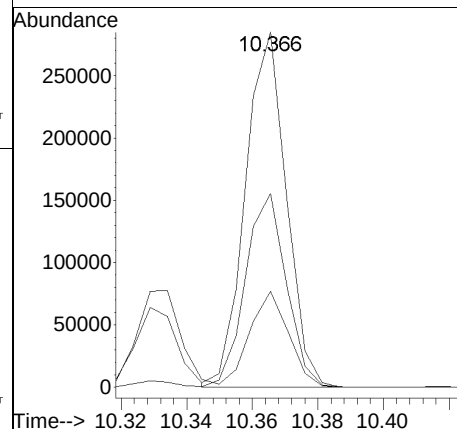
Tgt	Ion	Ratio	Resp	Lower	Upper
119	100		164339		
105	85.3	59.5		123.7	
134	44.8	30.2		62.6	

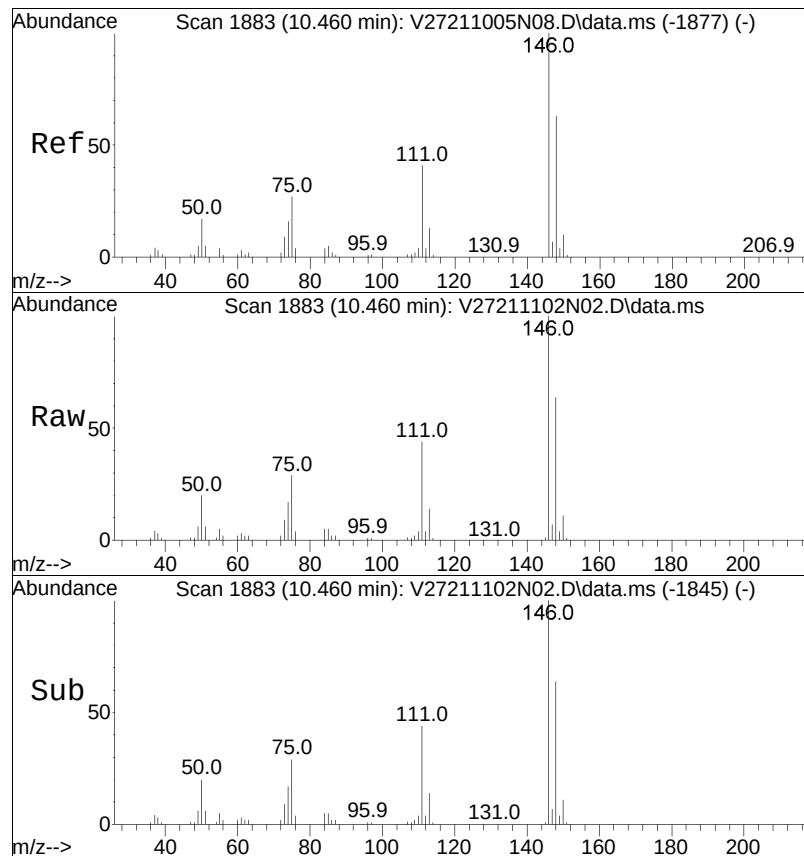




#103
 n-Butylbenzene
 Concen: 39.01 ug/L
 RT: 10.366 min Scan# 1865
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

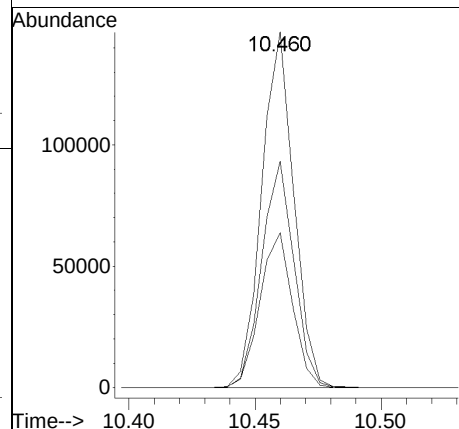
Tgt	Ion: 91	Resp:	247001
Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.0	64.4
134	25.8	19.6	29.4

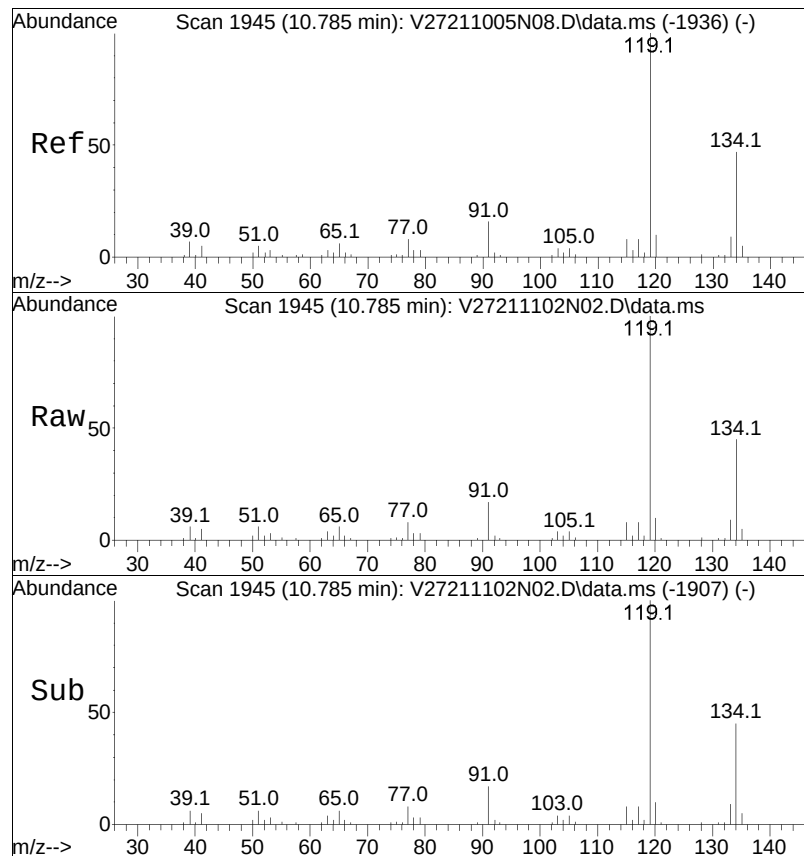




#104
 1,2-Dichlorobenzene
 Concen: 37.15 ug/L
 RT: 10.460 min Scan# 1883
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

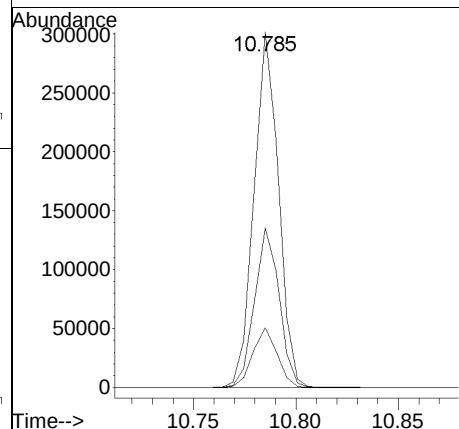
Tgt	Ion:146	Resp:	129738
Ion	Ratio	Lower	Upper
146	100		
111	44.2	28.3	58.7
148	63.8	42.3	87.8

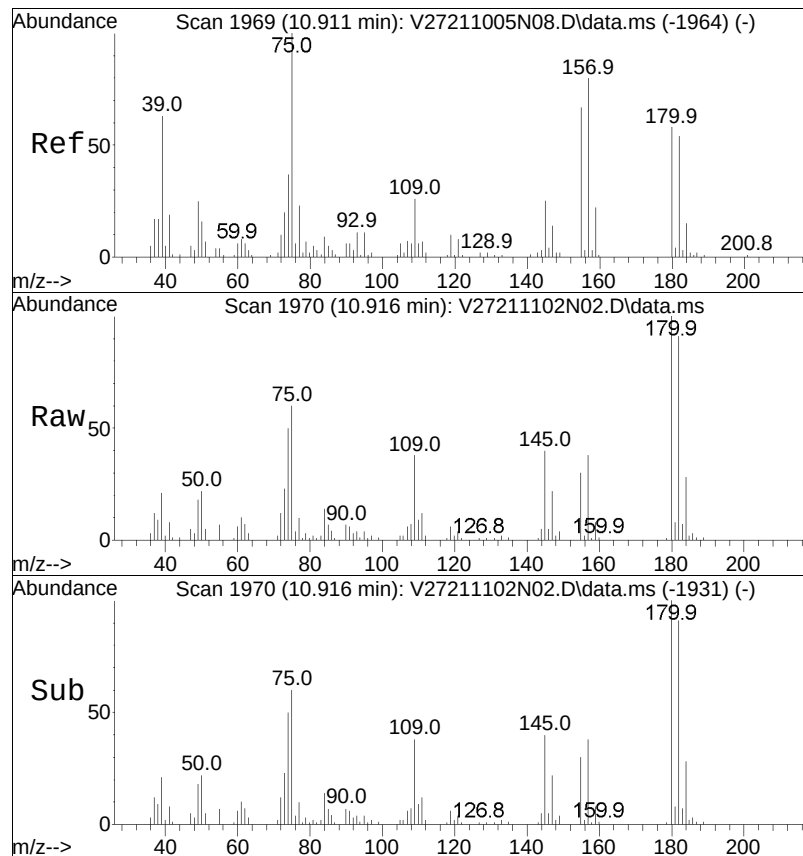




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 38.42 ug/L
 RT: 10.785 min Scan# 1945
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

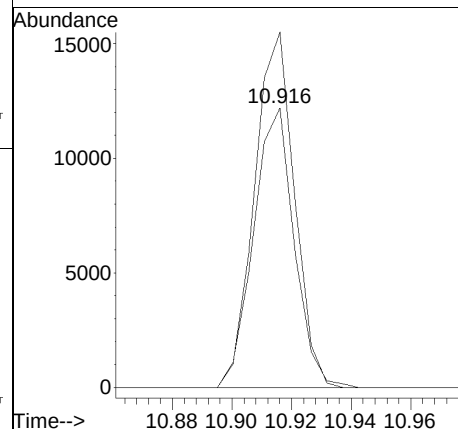
Tgt Ion	Ratio	Lower	Upper
119	100		
134	45.2	30.5	63.3
91	16.7	12.4	25.7

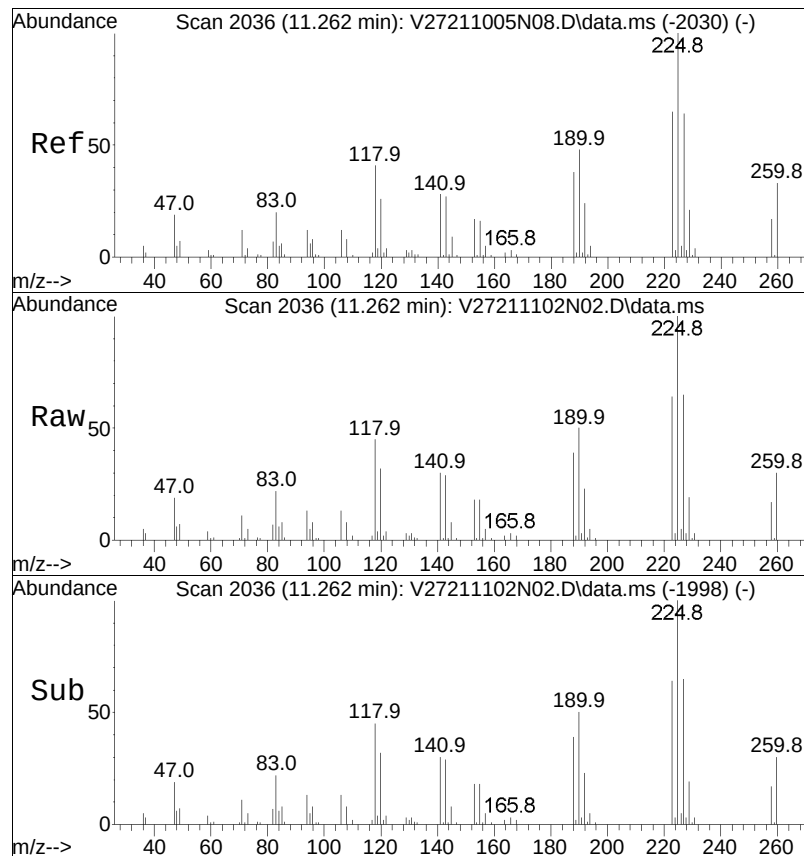




#106
 1,2-Dibromo-3-chloropropane
 Concen: 37.99 ug/L
 RT: 10.916 min Scan# 1970
 Delta R.T. 0.005 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

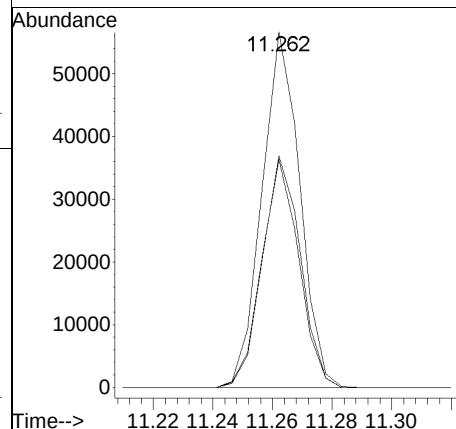
Tgt Ion:	155	Resp:	11558
Ion Ratio	Lower	Upper	
155	100		
157	124.7	94.8	142.2

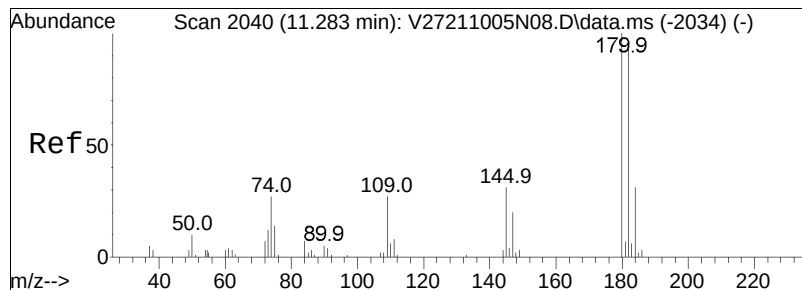




#108
 Hexachlorobutadiene
 Concen: 39.72 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

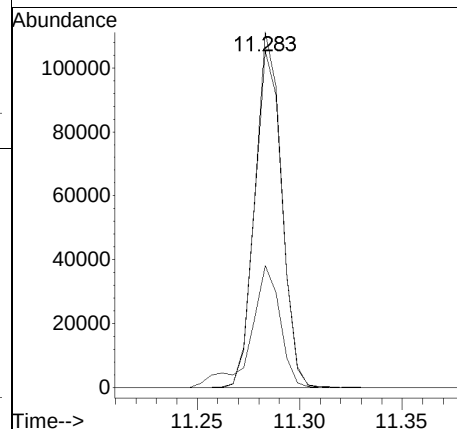
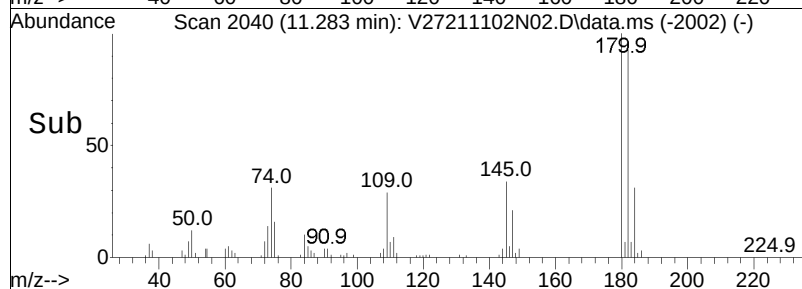
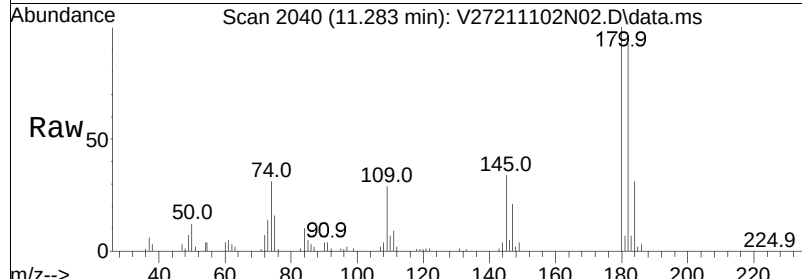
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50003		
223	62.8		54.3	81.5
227	65.2		52.4	78.6

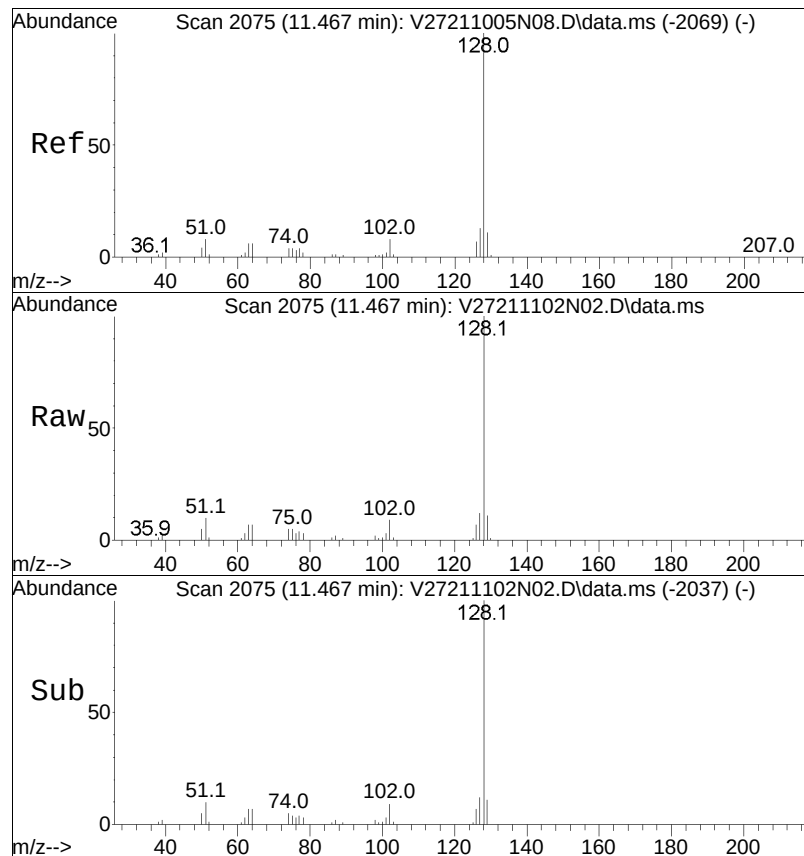




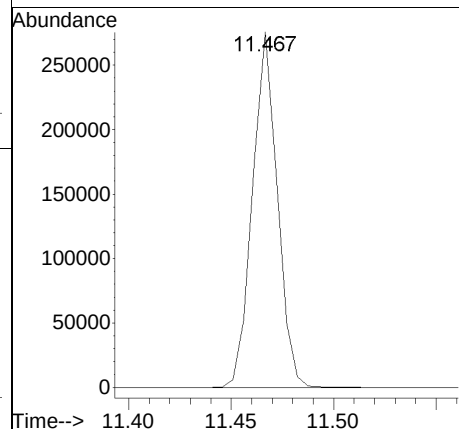
#109
 1,2,4-Trichlorobenzene
 Concen: 39.40 ug/L
 RT: 11.283 min Scan# 2040
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

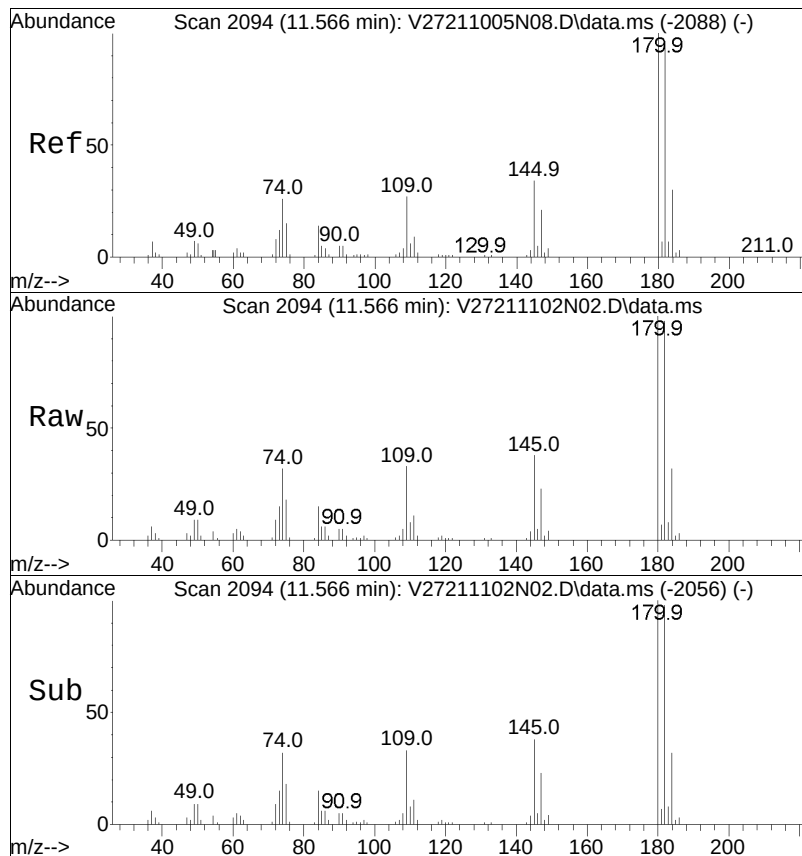
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.3	115.9
145	37.5	28.1	42.1





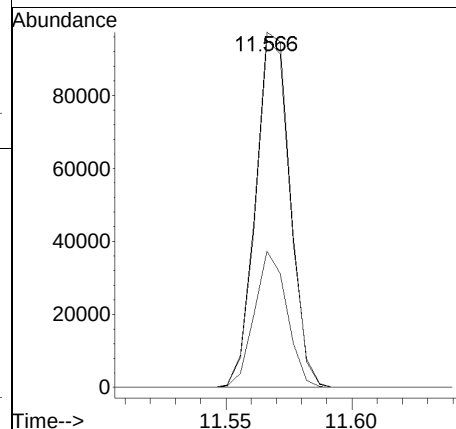
#110
 Naphthalene
 Concen: 36.69 ug/L
 RT: 11.467 min Scan# 2075
 Delta R.T. -0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm
 Tgt Ion:128 Resp: 232834





#111
 1,2,3-Trichlorobenzene
 Concen: 38.28 ug/L
 RT: 11.566 min Scan# 2094
 Delta R.T. 0.000 min
 Lab File: V27211102N02.D
 Acq: 02 Nov 2021 04:38 pm

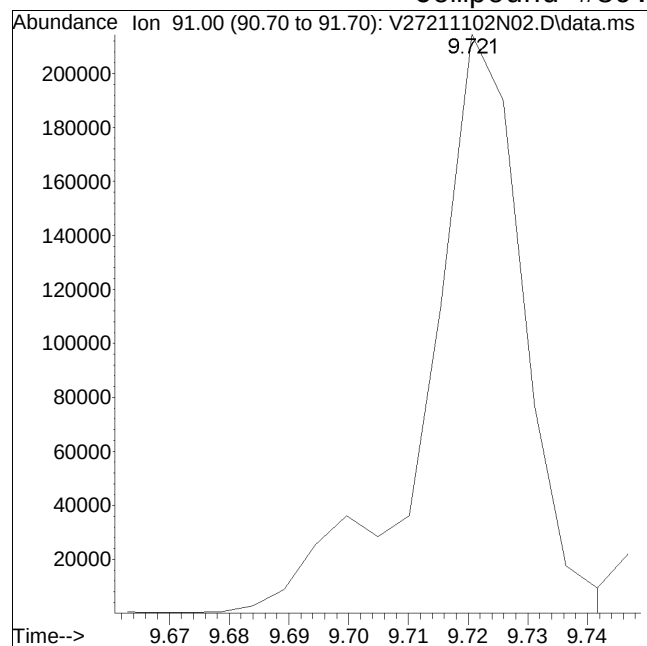
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.4	114.6
145	36.2	26.4	39.6



Manual Integration Report

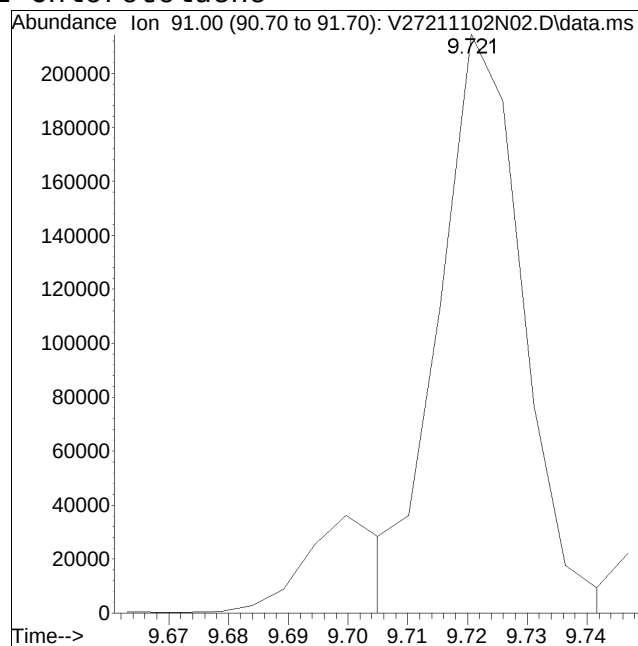
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211102N02.D Operator : VOA127:KJD
Date Inj'd : 11/2/2021 4:38 pm Instrument : VOA127
Sample : WG1566511-3,31,5,5 Quant Date : 11/2/2021 4:58 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 238522

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 207023 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-3,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.724	96	207736	20.000	ug/L	-0.01
Standard Area 1 = 207736			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.226	117	157233	20.000	ug/L	-0.01
Standard Area 1 = 157233			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.994	152	91068	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.927	113	56903	20.101	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.51%	
43) 1,2-Dichloroethane-d4	5.440	65	50634	20.326	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.63%	
60) Toluene-d8	7.401	98	208335	21.416	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	107.08%	
83) 4-Bromofluorobenzene	10.757	95	70934	20.409	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.04%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	105662	36.769	ug/L	99
3) Chloromethane	1.702	50	105225	38.367	ug/L	99
4) Vinyl chloride	1.765	62	116975	39.101	ug/L	99
5) Bromomethane	2.059	94	107963	40.328	ug/L	99
6) Chloroethane	2.169	64	92647	40.936	ug/L	100
7) Trichlorofluoromethane	2.300	101	227400	39.840	ug/L	100
8) Ethyl ether	2.572	74	54375	39.656	ug/L	90
10) 1,1-Dichloroethene	2.761	96	94514	40.974	ug/L	99
11) Carbon disulfide	2.782	76	270423	37.067	ug/L	100
15) Methylene chloride	3.280	84	113464	38.145	ug/L	94
17) Acetone	3.322	43	19503	41.047	ug/L	# 87
18) trans-1,2-Dichloroethene	3.427	96	109488	40.676	ug/L	97
20) Methyl tert-butyl ether	3.521	73	269506	40.321	ug/L	96
23) 1,1-Dichloroethane	3.993	63	196398	41.580	ug/L	99
25) Acrylonitrile	4.040	53	25312	41.432	ug/L	# 92
27) Vinyl acetate	4.224	43	244983	49.361	ug/L	95
28) cis-1,2-Dichloroethene	4.497	96	126075	41.126	ug/L	97
29) 2,2-Dichloropropane	4.596	77	176590	45.742	ug/L	94
30) Bromochloromethane	4.680	128	64507	41.453	ug/L	98
32) Chloroform	4.754	83	211048	40.434	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-3,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.885	117	180383	45.489	ug/L	99
37) 1,1,1-Trichloroethane	4.953	97	188196	44.913	ug/L	99
39) 2-Butanone	5.047	43	34838	40.552	ug/L	90
40) 1,1-Dichloropropene	5.073	75	148344	44.676	ug/L	98
41) Benzene	5.309	78	435640	42.298	ug/L	98
44) 1,2-Dichloroethane	5.509	62	139441	40.450	ug/L	100
48) Trichloroethene	5.897	95	121759	42.784	ug/L	94
50) Dibromomethane	6.327	93	69287	41.208	ug/L	97
51) 1,2-Dichloropropane	6.437	63	110260	41.445	ug/L	99
54) Bromodichloromethane	6.505	83	166353	44.342	ug/L	99
57) 1,4-Dioxane	6.720	88	43104	2132.800	ug/L	98
58) cis-1,3-Dichloropropene	7.192	75	183257	44.441	ug/L	92
61) Toluene	7.459	92	283989	44.531	ug/L	98
62) 4-Methyl-2-pentanone	7.899	58	27257	41.418	ug/L #	70
63) Tetrachloroethene	7.899	166	130892	45.966	ug/L	98
65) trans-1,3-Dichloropropene	7.936	75	164476	47.971	ug/L	93
68) 1,1,2-Trichloroethane	8.120	83	79079	43.428	ug/L	99
69) Chlorodibromomethane	8.324	129	131389	42.852	ug/L	97
70) 1,3-Dichloropropane	8.439	76	154682	43.391	ug/L	99
71) 1,2-Dibromoethane	8.597	107	96510	45.323	ug/L	99
72) 2-Hexanone	8.901	43	50760	41.825	ug/L	87
73) Chlorobenzene	9.247	112	336426	44.930	ug/L #	84
74) Ethylbenzene	9.294	91	564615	45.530	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.336	131	136685	48.256	ug/L	98
76) p/m Xylene	9.483	106	458994	93.919	ug/L	95
77) o Xylene	10.028	106	438397	92.463	ug/L	96
78) Styrene	10.096	104	756467	82.038	ug/L	95
80) Bromoform	10.112	173	82286	43.398	ug/L	100
82) Isopropylbenzene	10.427	105	591026	46.664	ug/L	98
84) Bromobenzene	10.867	156	150177	43.050	ug/L	99
85) n-Propylbenzene	10.925	91	702462	46.600	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.014	83	118849	44.963	ug/L	99
88) 4-Ethyltoluene	11.056	105	593447	46.383	ug/L	98
89) 2-Chlorotoluene	11.092	91	416715M6	47.670	ug/L	
90) 1,3,5-Trimethylbenzene	11.161	105	516221	46.941	ug/L	99
91) 1,2,3-Trichloropropane	11.150	75	90725	42.837	ug/L	94
92) trans-1,4-Dichloro-2-b...	11.213	53	33368	47.006	ug/L	90
93) 4-Chlorotoluene	11.281	91	423995	46.081	ug/L	92
94) tert-Butylbenzene	11.507	119	450161	46.862	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-3,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.585	105	514114	45.720	ug/L	98
98)	sec-Butylbenzene	11.701	105	687295	48.037	ug/L	97
99)	p-Isopropyltoluene	11.858	119	609147	48.642	ug/L	98
100)	1,3-Dichlorobenzene	11.916	146	318427	45.359	ug/L	98
101)	1,4-Dichlorobenzene	12.010	146	316846	44.497	ug/L	98
102)	p-Diethylbenzene	12.241	119	359136	47.991	ug/L	98
103)	n-Butylbenzene	12.298	91	543454	48.878	ug/L	97
104)	1,2-Dichlorobenzene	12.440	146	294433	44.559	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.043	119	553496	47.124	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.226	155	19586	43.993	ug/L	99
108)	Hexachlorobutadiene	13.845	225	104385	43.888	ug/L	99
109)	1,2,4-Trichlorobenzene	13.861	180	198775	44.091	ug/L	99
110)	Naphthalene	14.160	128	407677	43.556	ug/L	100
111)	1,2,3-Trichlorobenzene	14.322	180	176662	42.572	ug/L	99

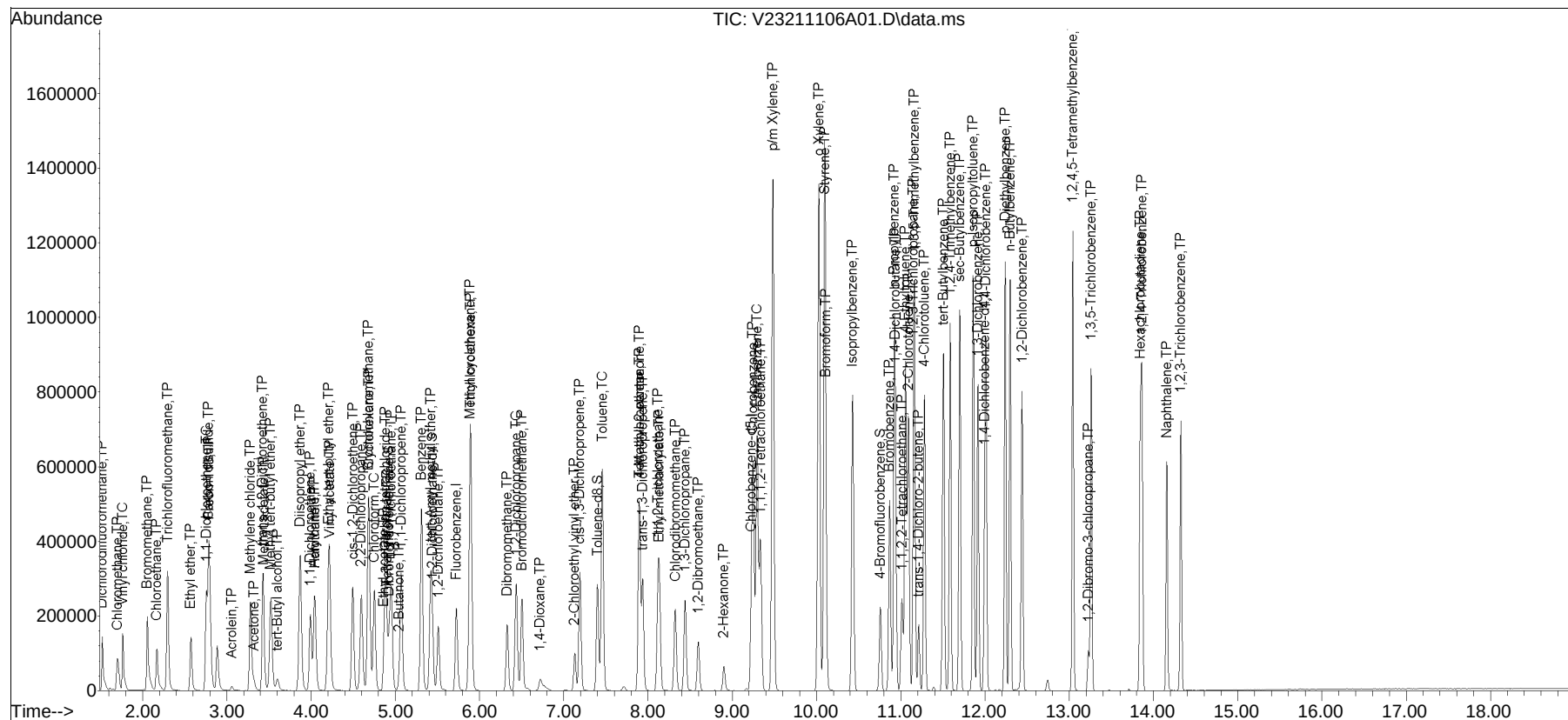
(#) = qualifier out of range (m) = manual integration (+) = signals summed

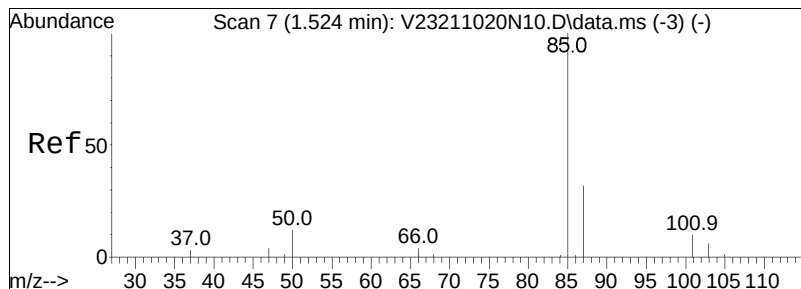
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A01.D
 Acq On : 06 Nov 2021 06:05 am
 Operator : VOA123:MV
 Sample : WG1568305-3,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 10:02:16 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

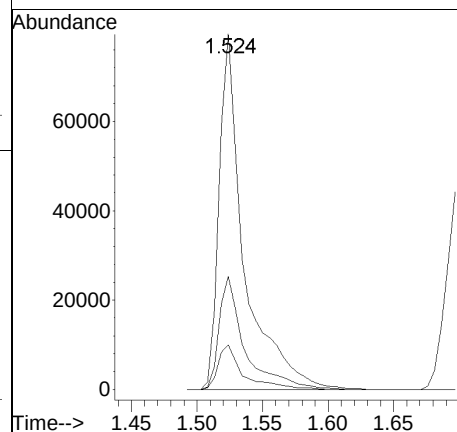
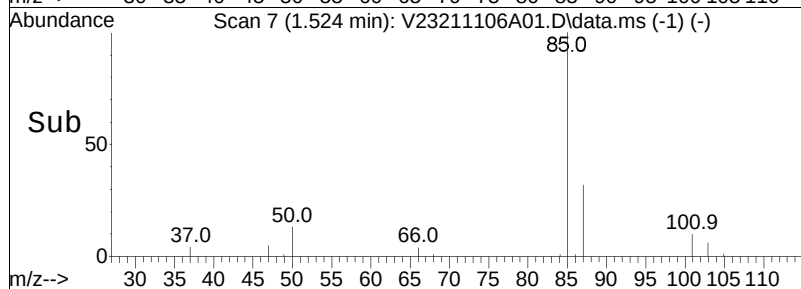
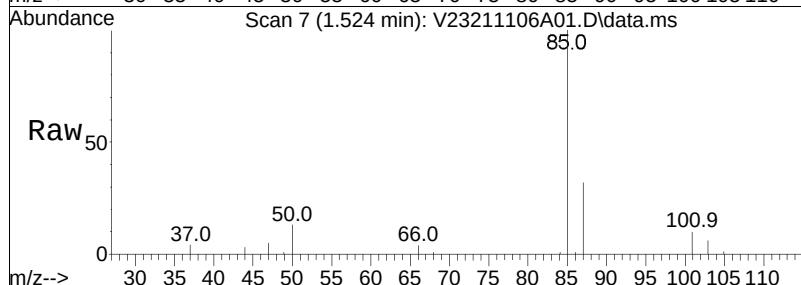
Sub List : 8260-CurveSoil - Megamix plus Diox6A\V23211106A01.D•

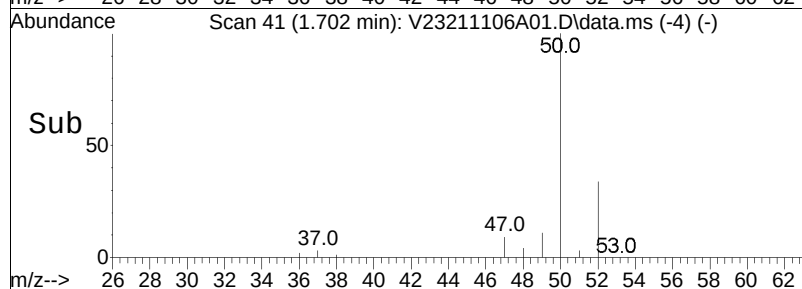
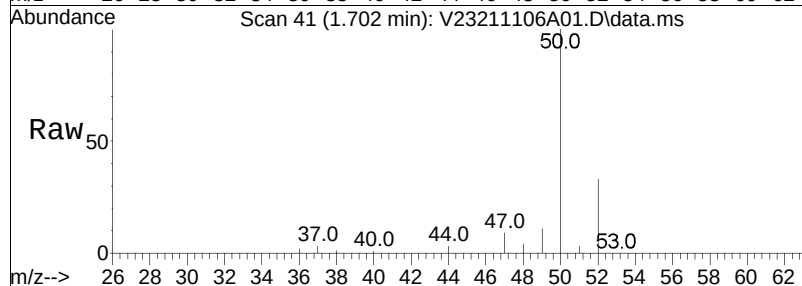
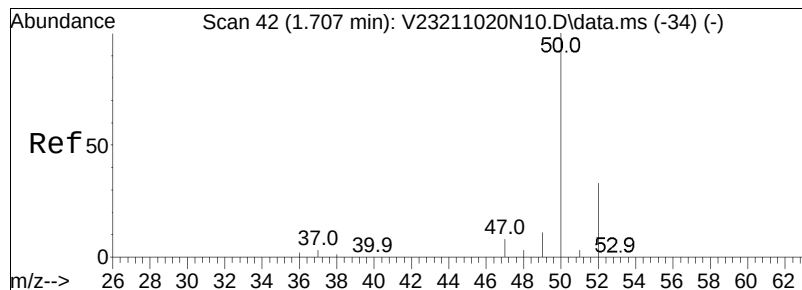




#2
 Dichlorodifluoromethane
 Concen: 36.77 ug/L
 RT: 1.524 min Scan# 7
 Delta R.T. -0.000 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion	85	Resp:	105662
Ion Ratio	Lower	Upper	
85	100		
87	32.7	21.1	43.7
50	12.6	7.3	15.3





#3

Chloromethane

Concen: 38.37 ug/L

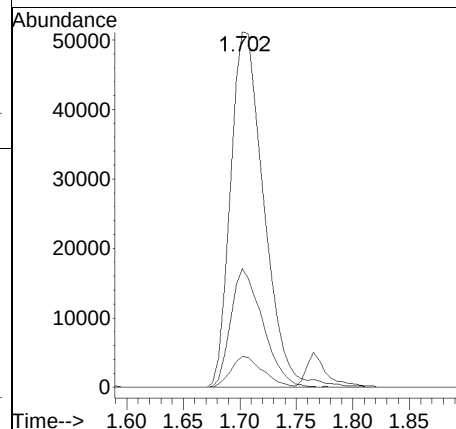
RT: 1.702 min Scan# 41

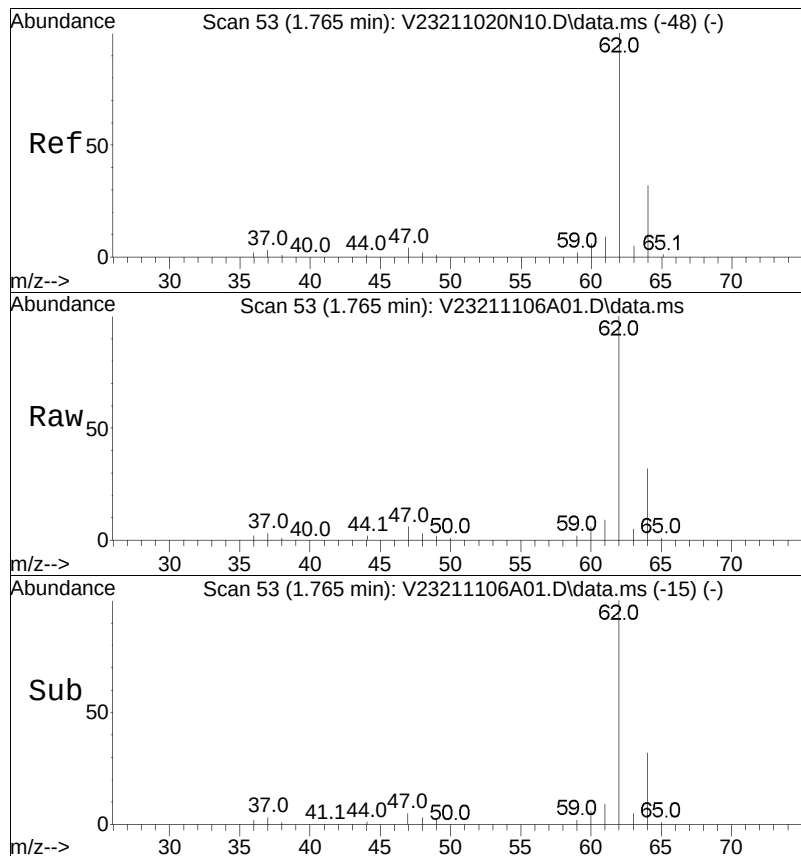
Delta R.T. -0.005 min

Lab File: V23211106A01.D

Acq: 06 Nov 2021 06:05 am

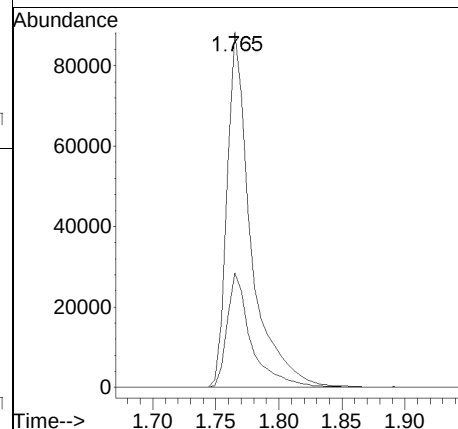
Tgt Ion: 50	Resp: 105225
Ion Ratio Lower Upper	
50 100	
52 32.2 12.7 52.7	
47 8.4 0.0 28.1	

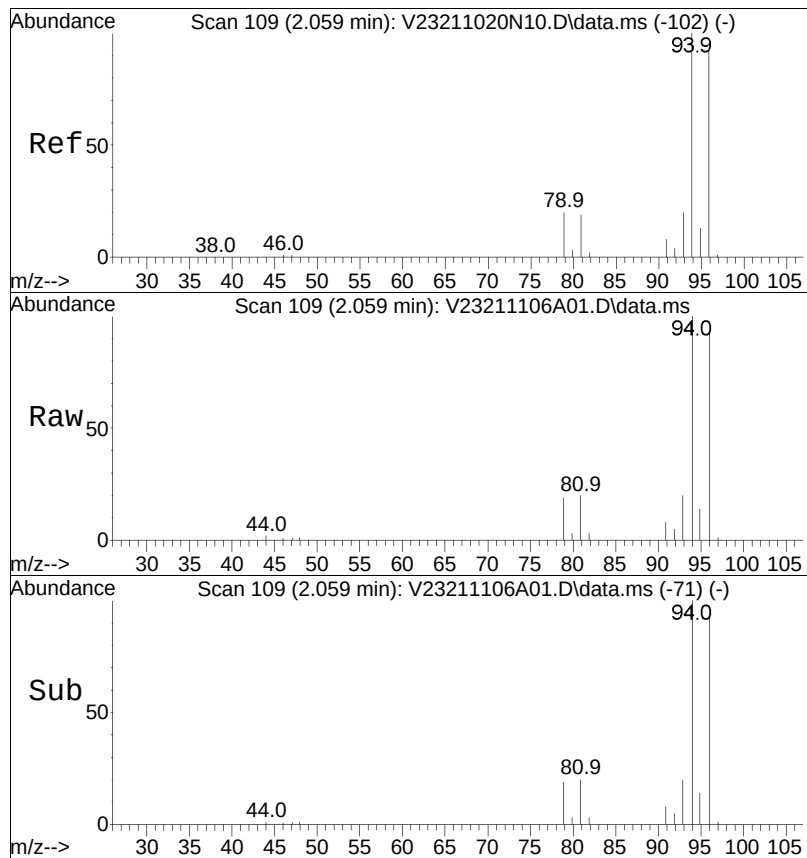




#4
 Vinyl chloride
 Concen: 39.10 ug/L
 RT: 1.765 min Scan# 53
 Delta R.T. 0.000 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

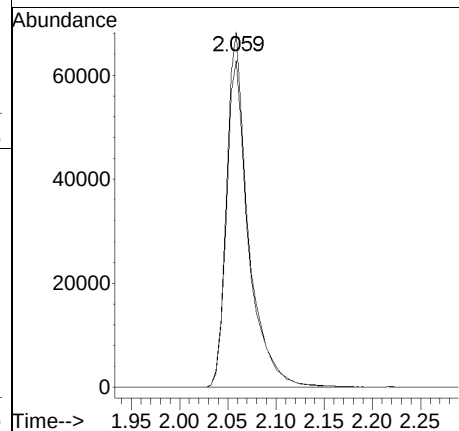
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.4	12.0	52.0

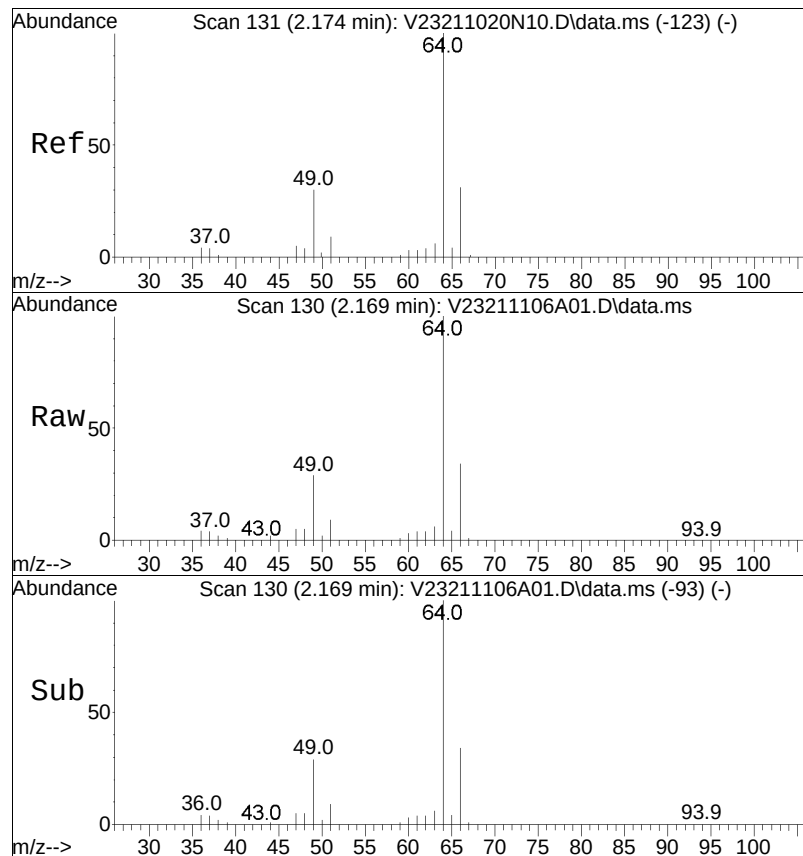




#5
 Bromomethane
 Concen: 40.33 ug/L
 RT: 2.059 min Scan# 109
 Delta R.T. -0.000 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

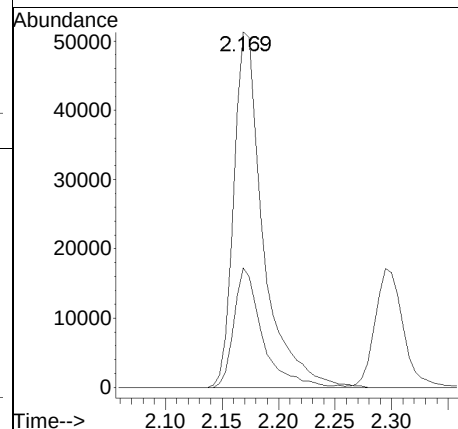
Tgt Ion	94	Resp	107963
Ion Ratio	Lower	Upper	
94	100		
96	93.4	74.6	114.6

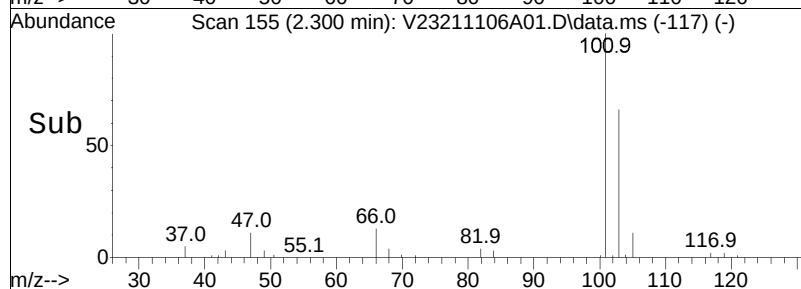
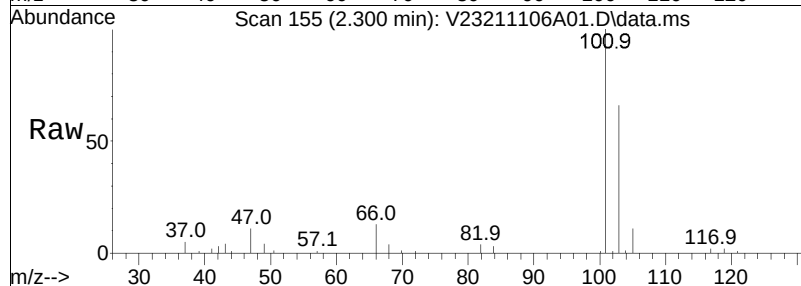
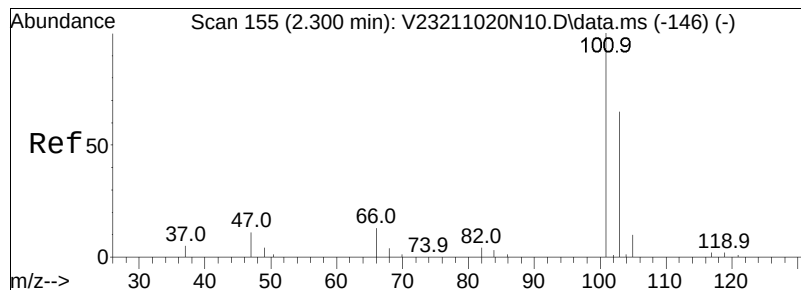




#6
 Chloroethane
 Concen: 40.94 ug/L
 RT: 2.169 min Scan# 130
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.5	12.6	52.6





#7

Trichlorofluoromethane

Concen: 39.84 ug/L

RT: 2.300 min Scan# 155

Delta R.T. -0.000 min

Lab File: V23211106A01.D

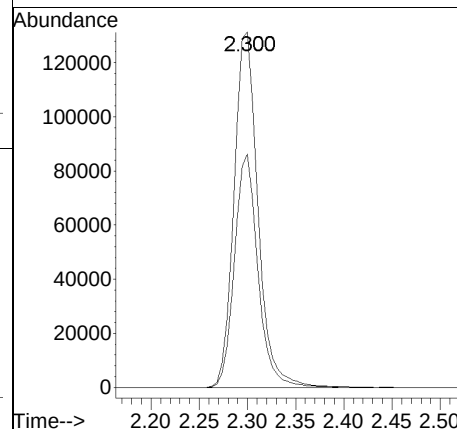
Acq: 06 Nov 2021 06:05 am

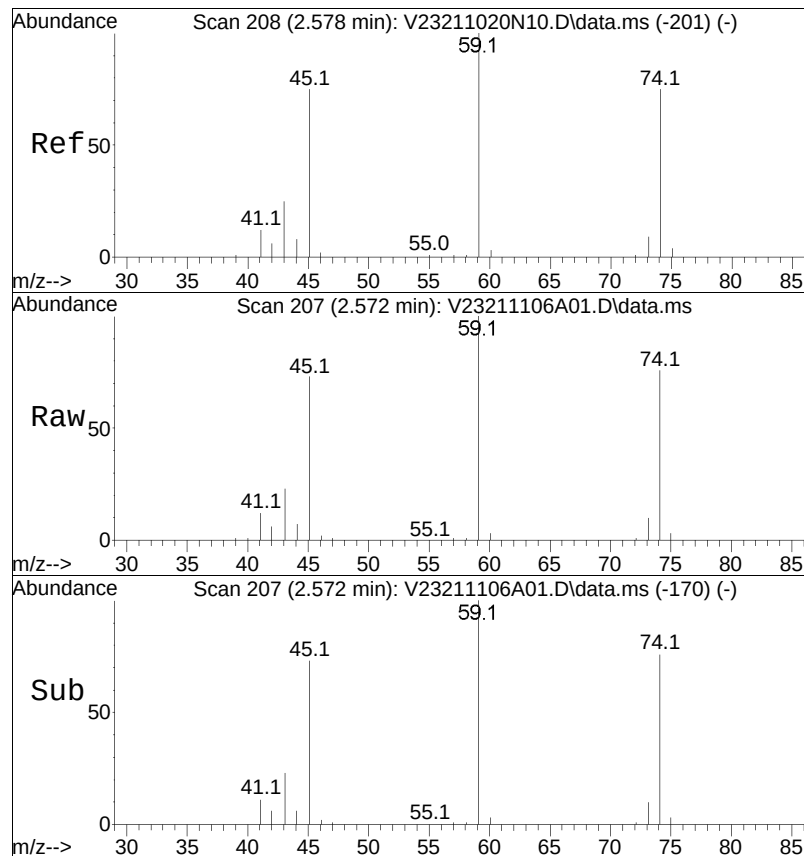
Tgt Ion:101 Resp: 227400

Ion Ratio Lower Upper

101 100

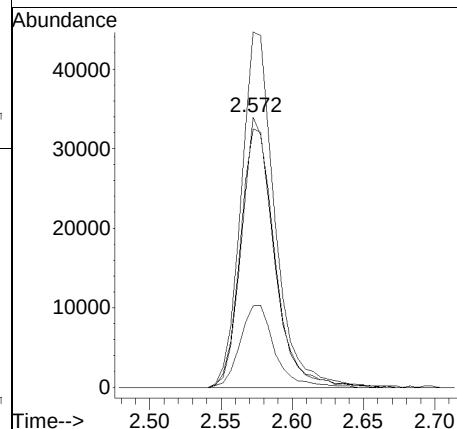
103 64.3 51.4 77.2

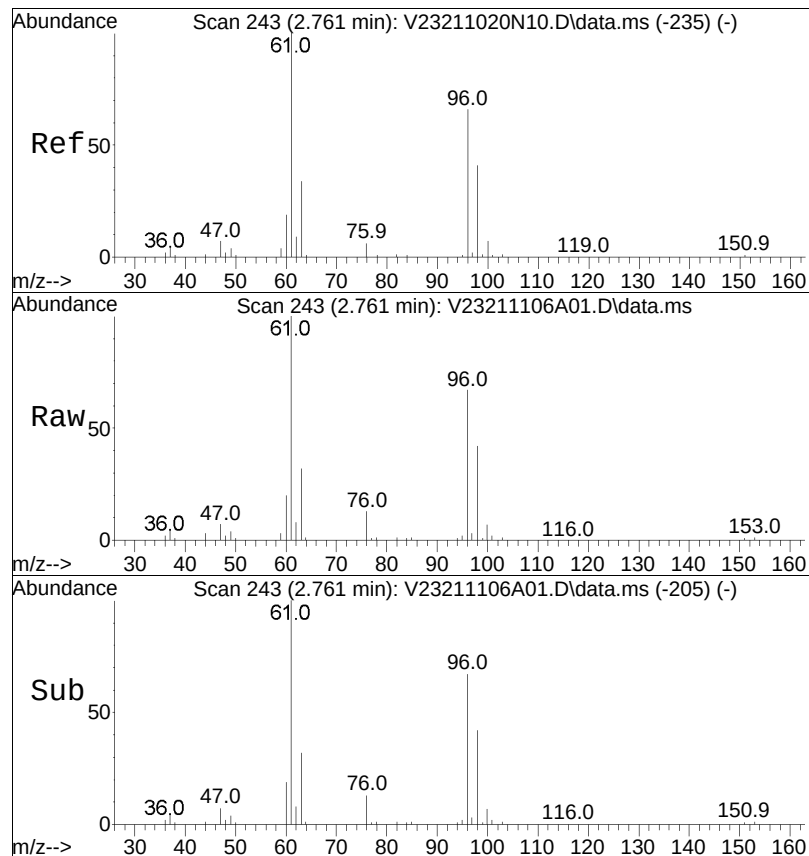




#8
 Ethyl ether
 Concen: 39.66 ug/L
 RT: 2.572 min Scan# 207
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

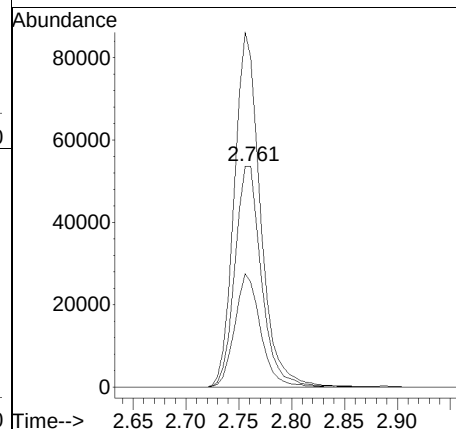
Tgt Ion:	74	Resp:	54375
Ion	Ratio	Lower	Upper
74	100		
59	135.1	84.3	175.1
45	100.8	55.4	115.2
43	32.1	15.9	32.9

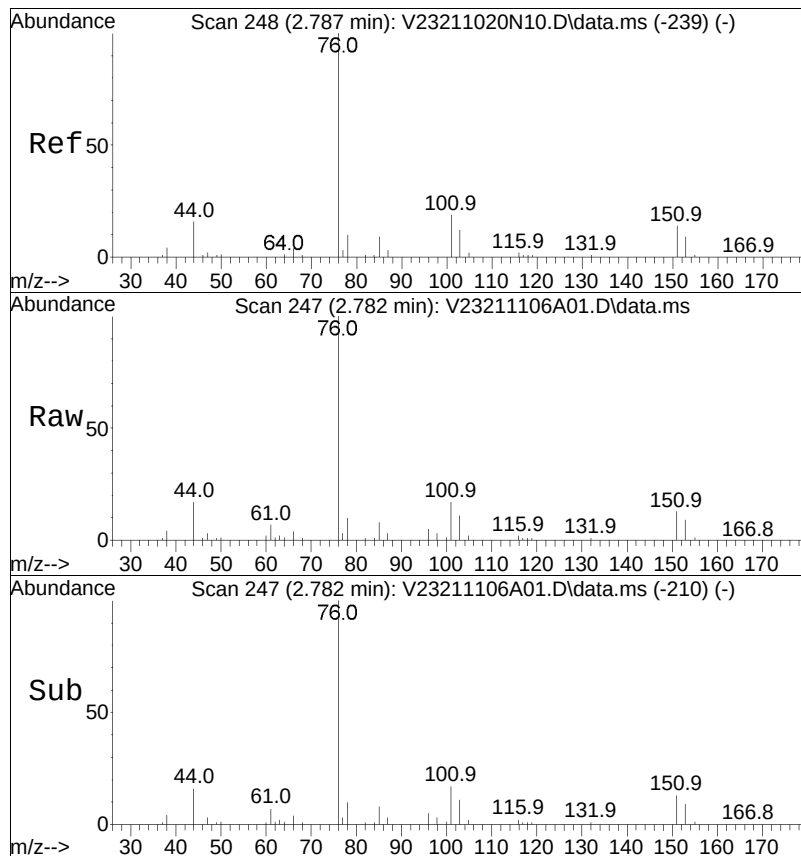




#10
 1,1-Dichloroethene
 Concen: 40.97 ug/L
 RT: 2.761 min Scan# 243
 Delta R.T. 0.000 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

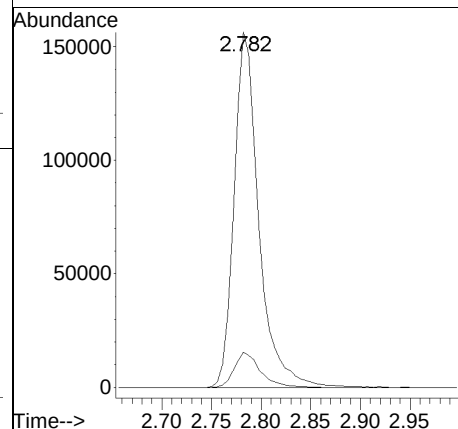
Tgt	Ion	Ratio	Lower	Upper
96	100			
61	157.6	124.5	186.7	
63	50.1	40.7	61.1	

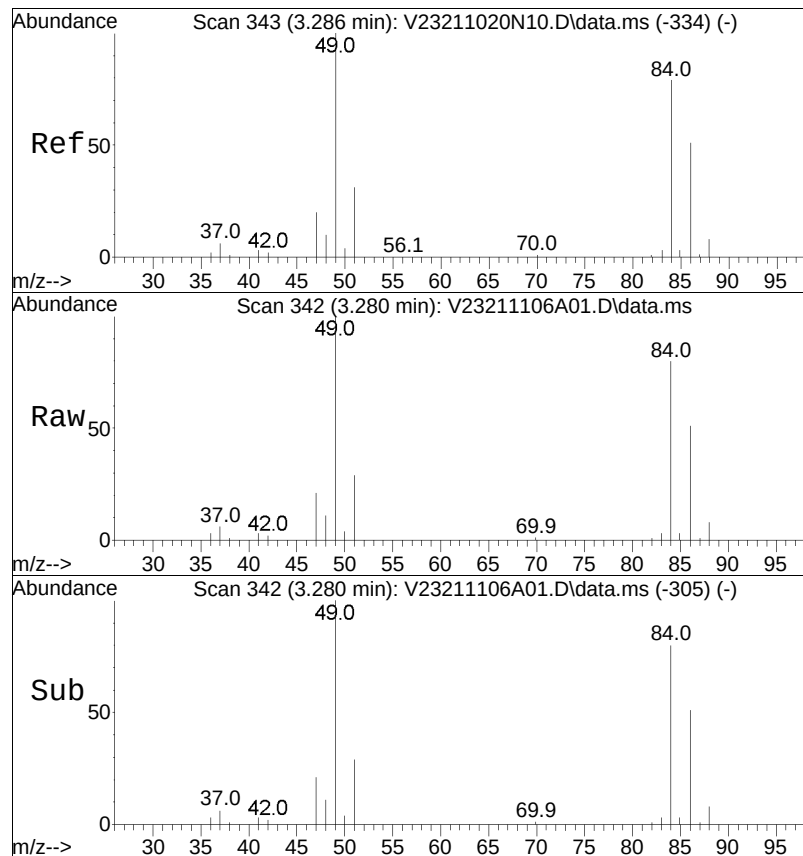




#11
 Carbon disulfide
 Concen: 37.07 ug/L
 RT: 2.782 min Scan# 247
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

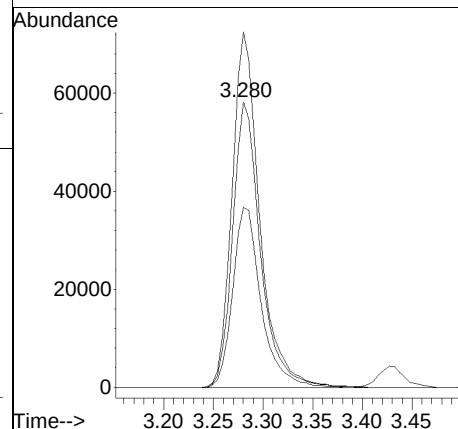
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.4	6.7	13.9

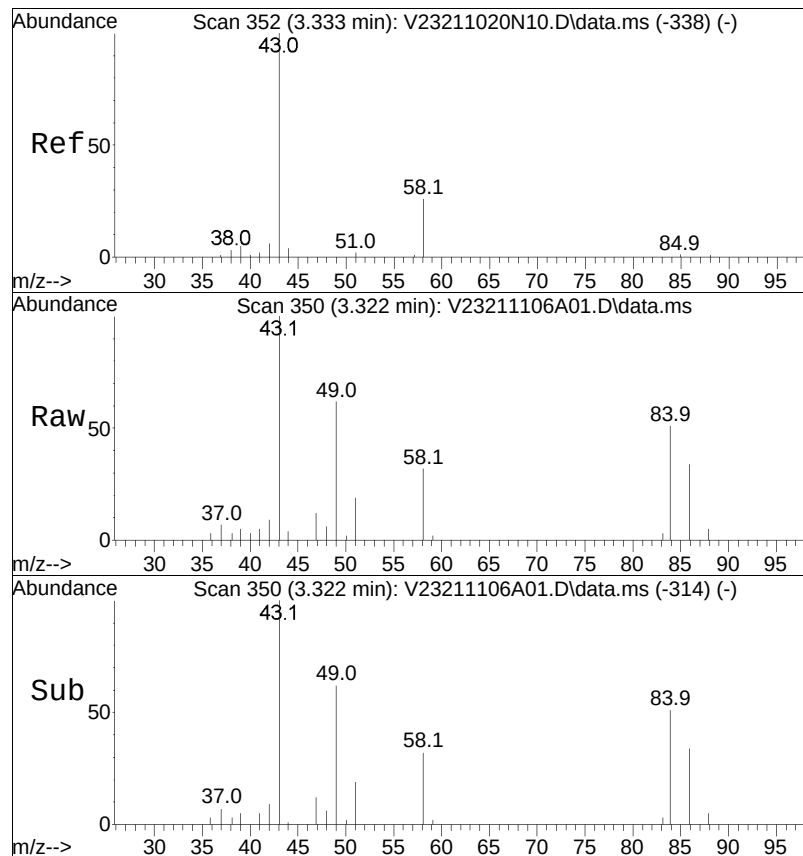




#15
Methylene chloride
Concen: 38.14 ug/L
RT: 3.280 min Scan# 342
Delta R.T. -0.006 min
Lab File: V23211106A01.D
Acq: 06 Nov 2021 06:05 am

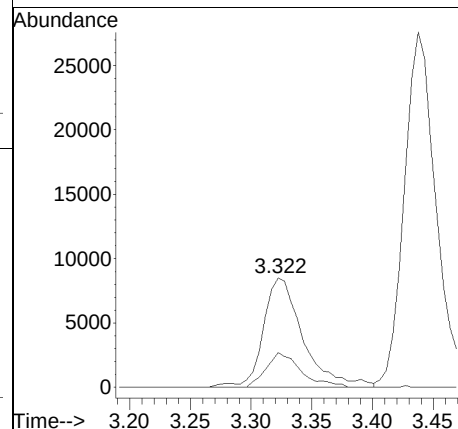
Tgt Ion:	84	Resp:	113464
Ion Ratio	Lower	Upper	
84	100		
86	64.5	42.0	87.2
49	123.9	74.0	153.6

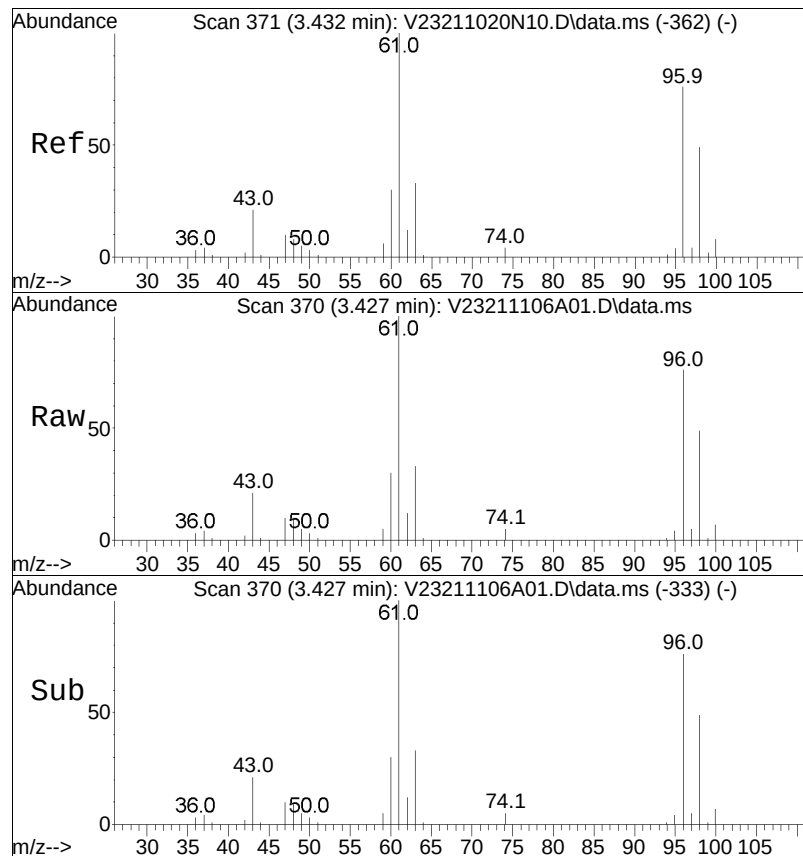




#17
 Acetone
 Concen: 41.05 ug/L
 RT: 3.322 min Scan# 350
 Delta R.T. -0.011 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

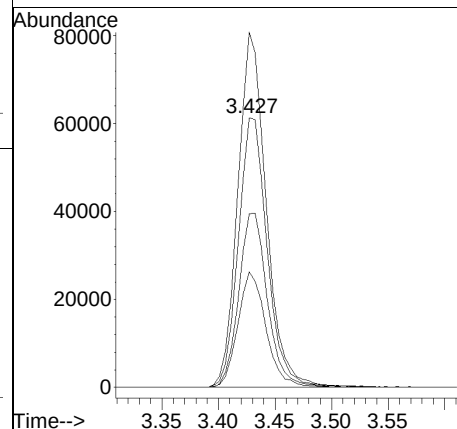
Tgt	Ion	Resp	Lower	Upper
43	100			
58	27.9	28.2	42.4	

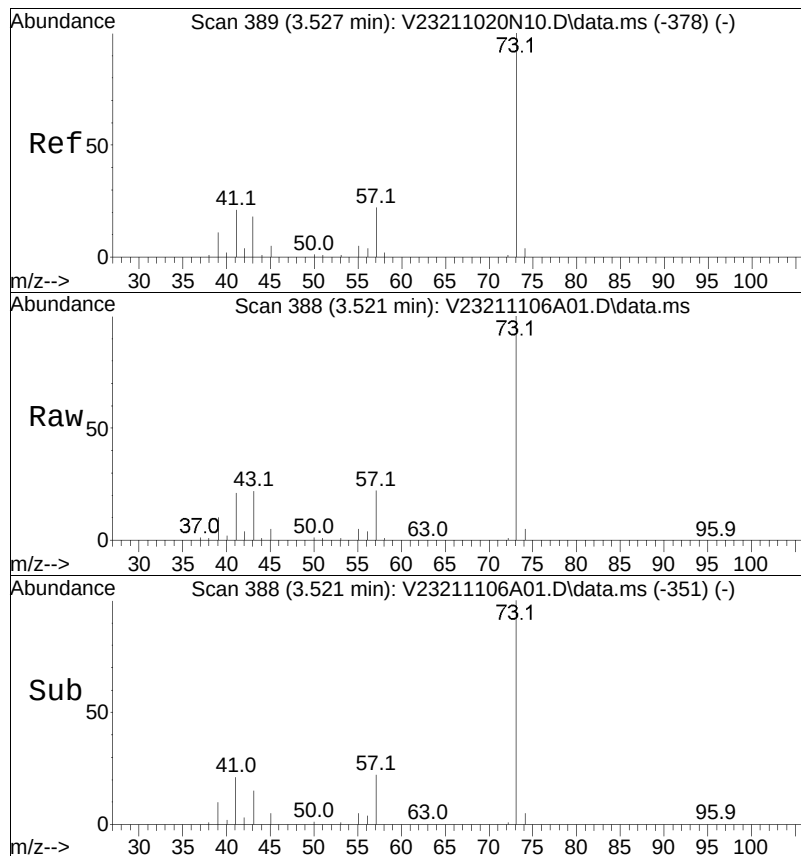




#18
 trans-1,2-Dichloroethene
 Concen: 40.68 ug/L
 RT: 3.427 min Scan# 370
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

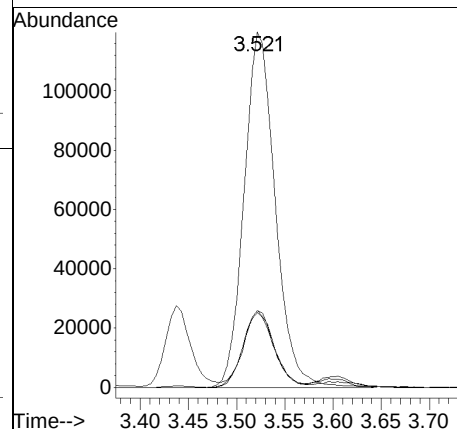
Tgt Ion:	96	Resp:	109488
Ion Ratio	Lower	Upper	
96	100		
61	129.3	87.3	181.3
98	64.2	41.1	85.5
63	41.7	28.3	58.7

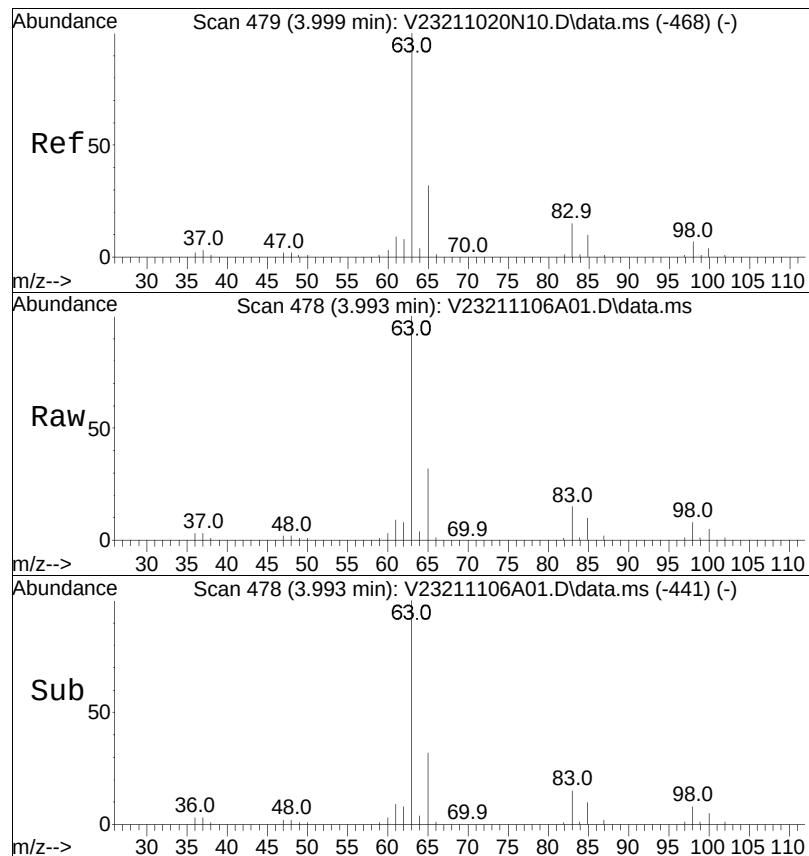




#20
Methyl tert-butyl ether
Concen: 40.32 ug/L
RT: 3.521 min Scan# 388
Delta R.T. -0.006 min
Lab File: V23211106A01.D
Acq: 06 Nov 2021 06:05 am

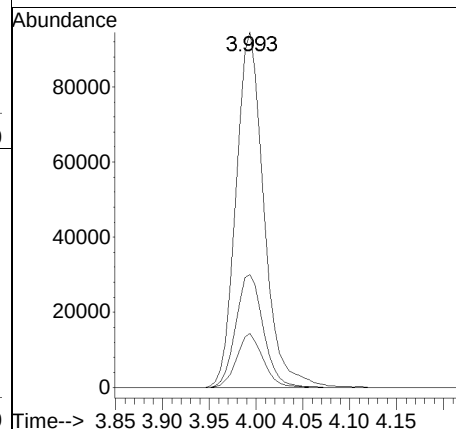
Tgt	Ion: 73	Resp:	269506
Ion	Ratio	Lower	Upper
73	100		
57	21.4	14.2	29.4
43	21.6	12.4	25.7
41	21.1	11.6	24.0

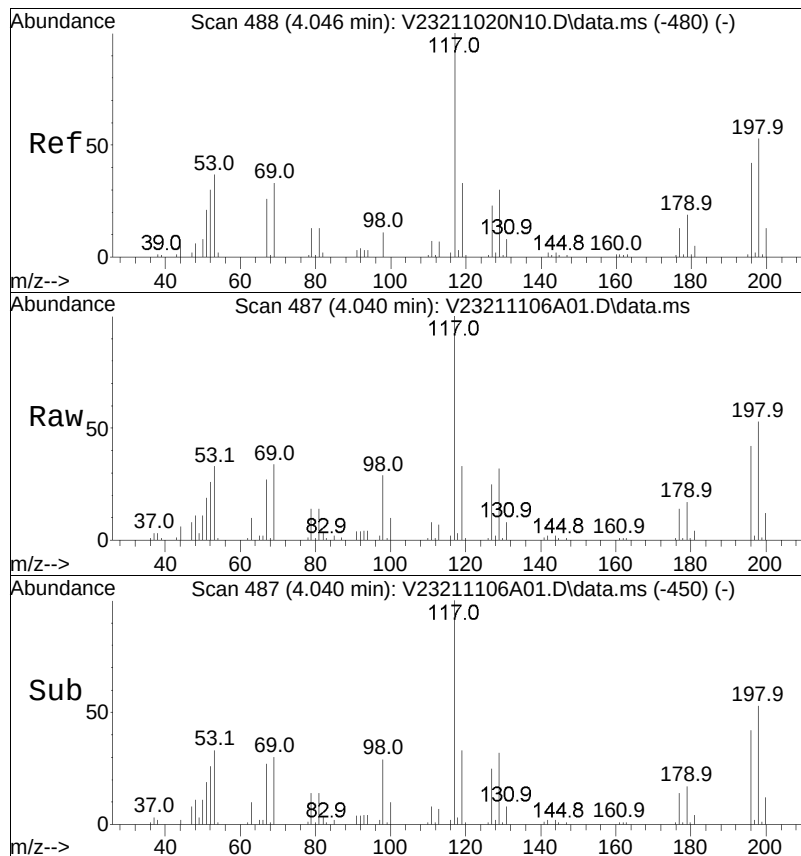




#23
 1,1-Dichloroethane
 Concen: 41.58 ug/L
 RT: 3.993 min Scan# 478
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

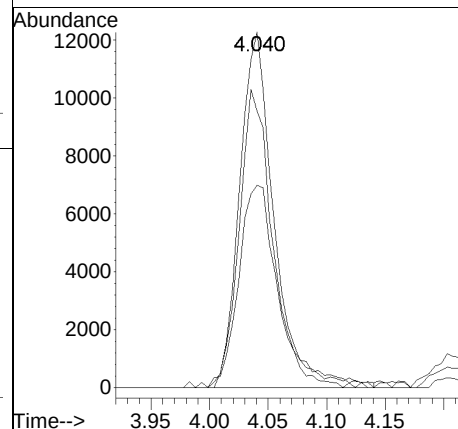
Tgt Ion:	63	Resp:	196398
Ion Ratio	Lower	Upper	
63	100		
65	31.3	11.1	51.1
83	14.2	0.0	33.3

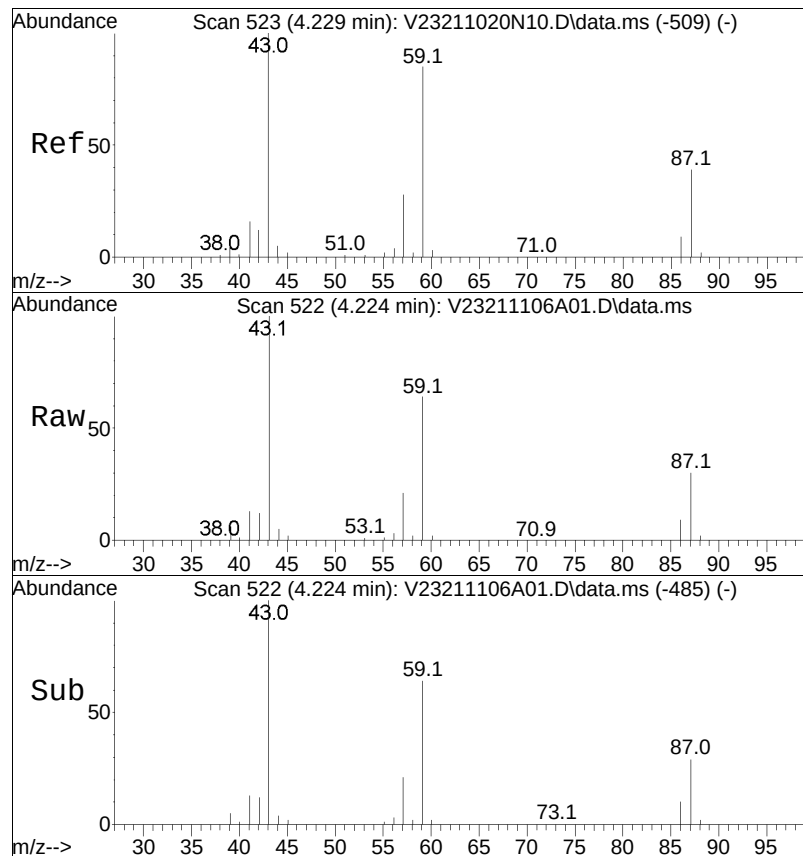




#25
 Acrylonitrile
 Concen: 41.43 ug/L
 RT: 4.040 min Scan# 487
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

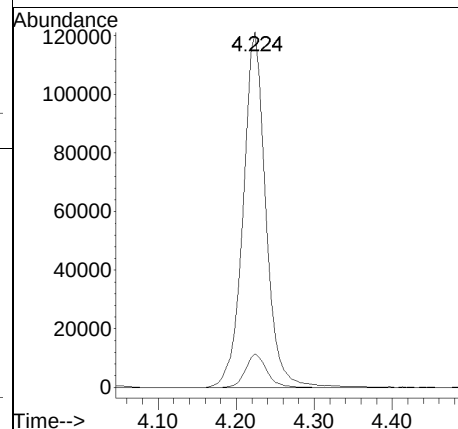
Tgt Ion:	53	Resp:	25312
Ion Ratio	Lower	Upper	
53	100		
52	84.0	67.1	100.7
51	63.2	38.5	57.7#

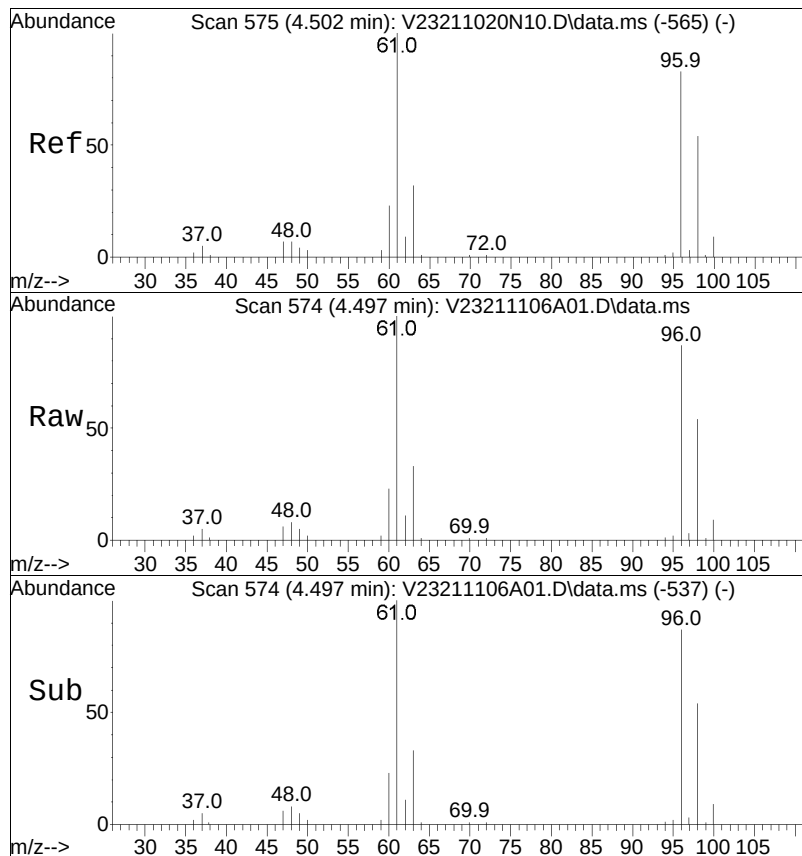




#27
 Vinyl acetate
 Concen: 49.36 ug/L
 RT: 4.224 min Scan# 522
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

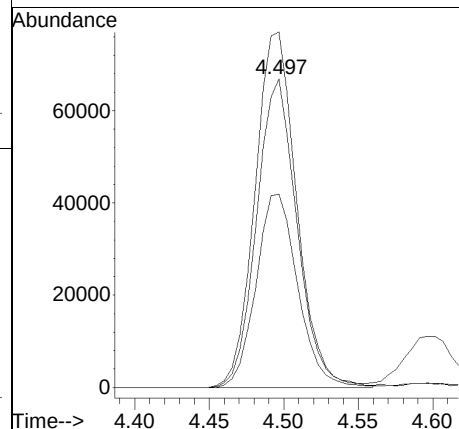
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.8	8.6	12.8

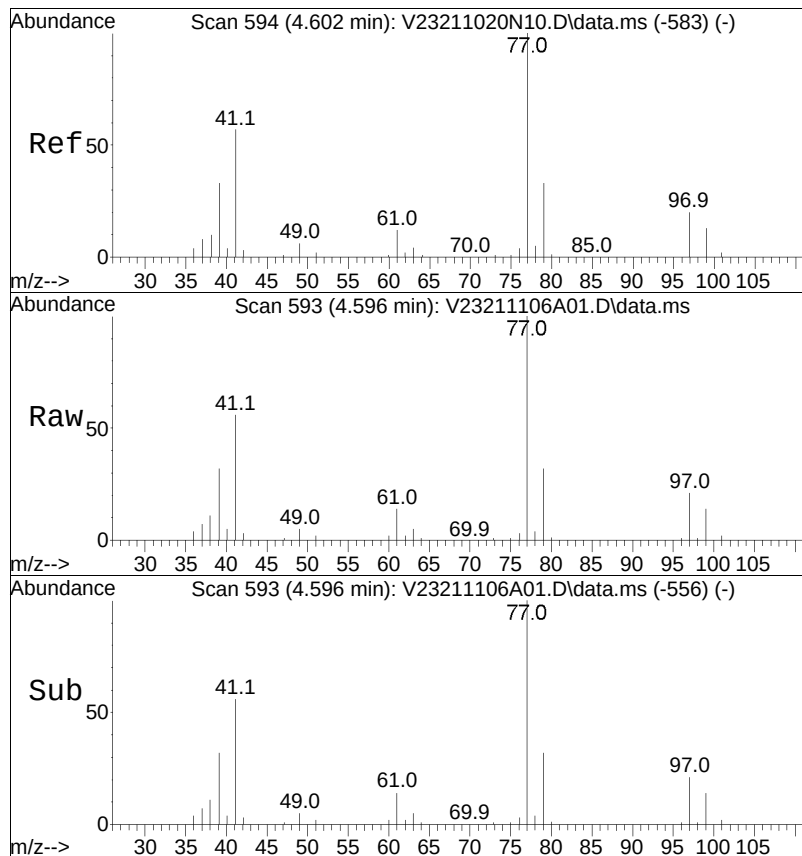




#28
 cis-1,2-Dichloroethene
 Concen: 41.13 ug/L
 RT: 4.497 min Scan# 574
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

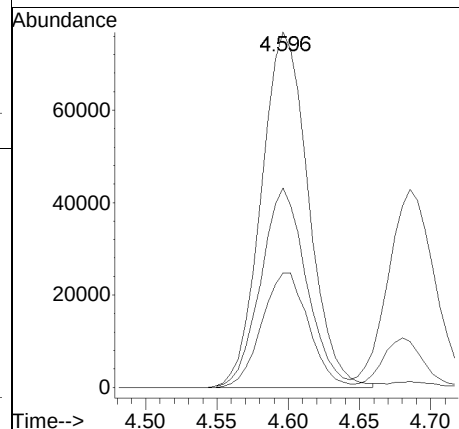
Tgt Ion:	96	Resp:	126075
Ion Ratio	Lower	Upper	
96	100		
61	119.0	98.2	147.2
98	64.8	51.0	76.6

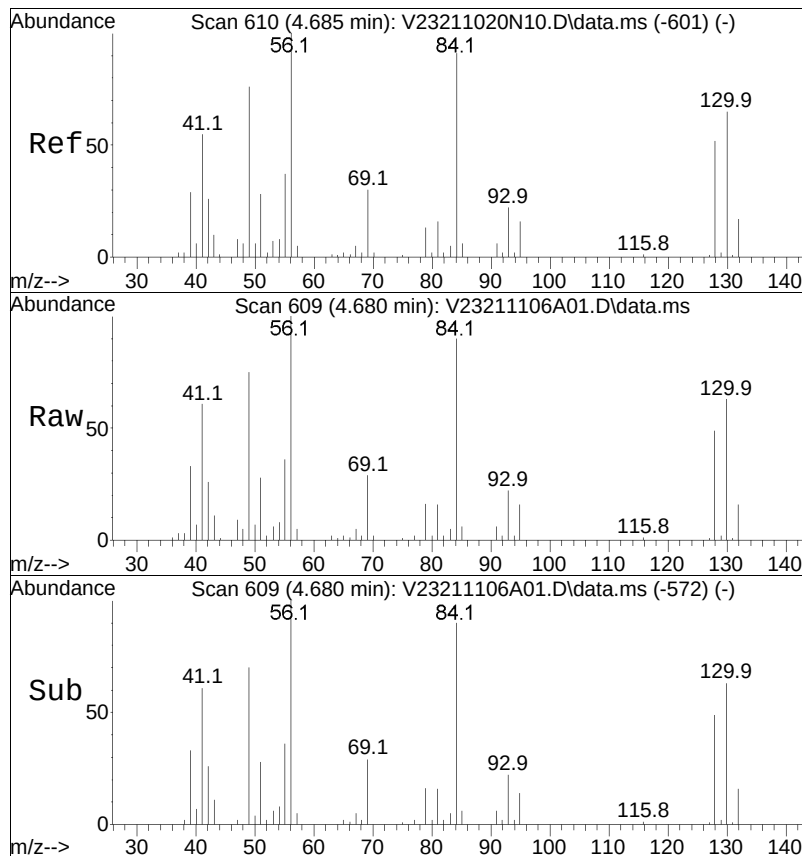




#29
 2,2-Dichloropropane
 Concen: 45.74 ug/L
 RT: 4.596 min Scan# 593
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

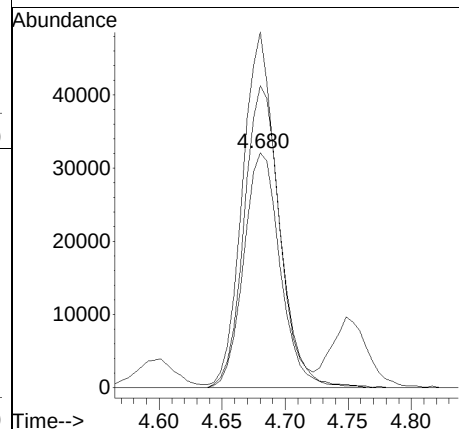
Tgt Ion	Ratio	Lower	Upper
77	100		
41	54.6	31.1	64.7
79	32.0	20.7	43.1

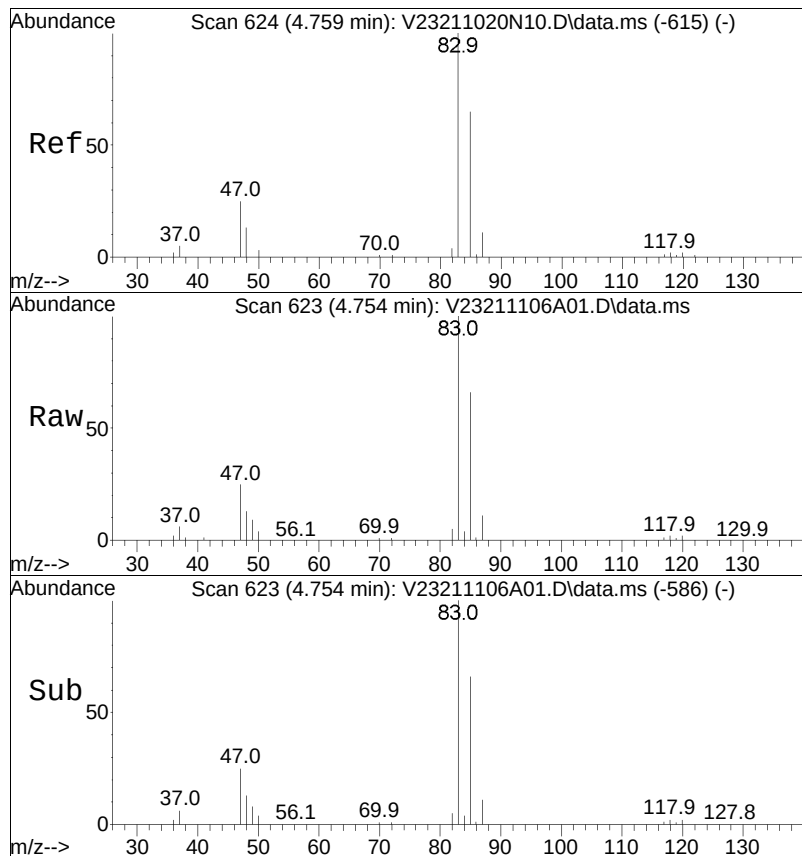




#30
 Bromochloromethane
 Concen: 41.45 ug/L
 RT: 4.680 min Scan# 609
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

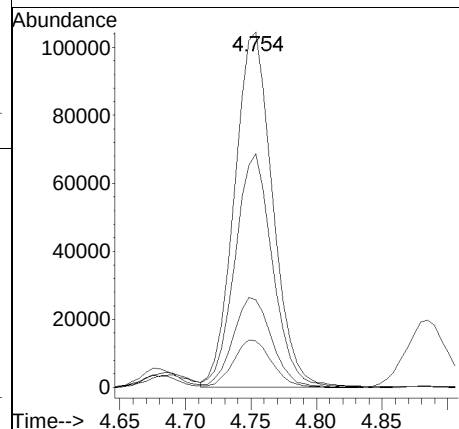
Tgt Ion	Ratio	Lower	Upper
128	100		
49	144.5	117.6	176.4
130	127.8	103.8	155.8

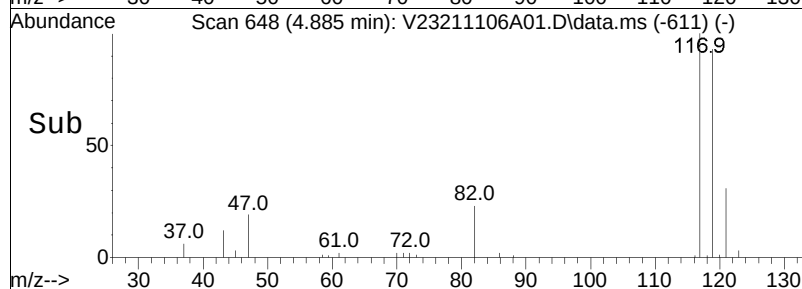
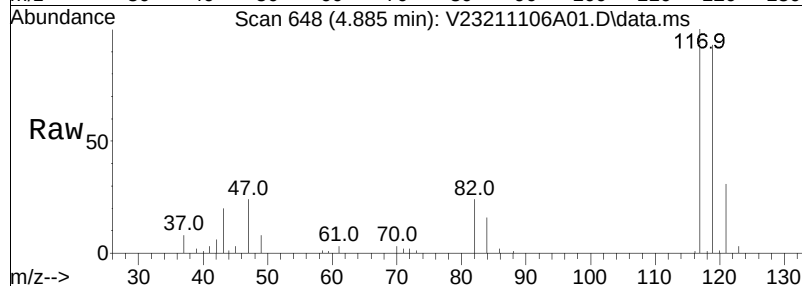
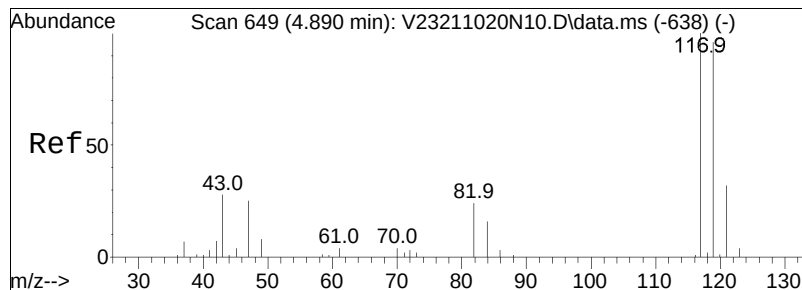




#32
 Chloroform
 Concen: 40.43 ug/L
 RT: 4.754 min Scan# 623
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion:	83	Resp:	211048
Ion	Ratio	Lower	Upper
83	100		
85	65.3	42.1	87.3
47	25.9	14.0	29.2
48	13.5	7.2	14.9





#34

Carbon tetrachloride

Concen: 45.49 ug/L

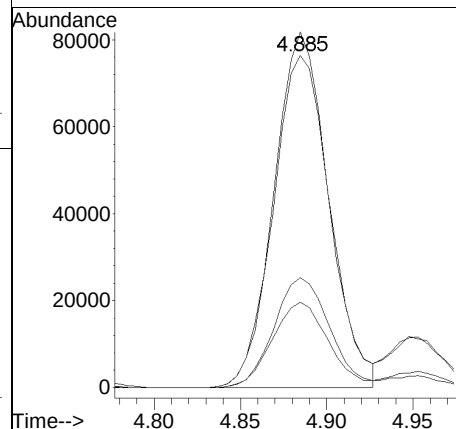
RT: 4.885 min Scan# 648

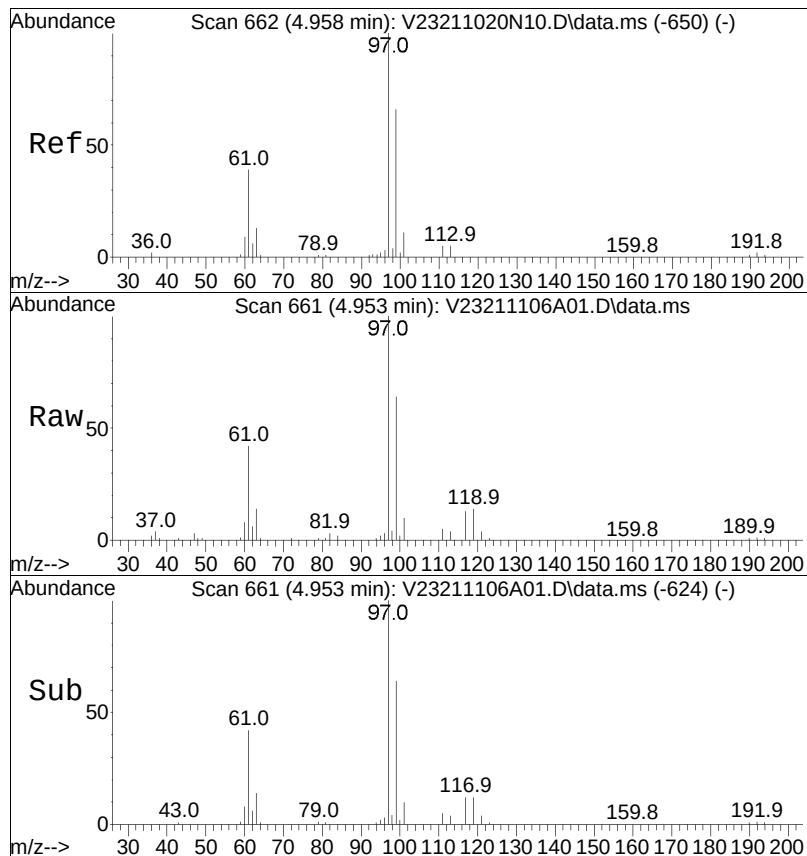
Delta R.T. -0.005 min

Lab File: V23211106A01.D

Acq: 06 Nov 2021 06:05 am

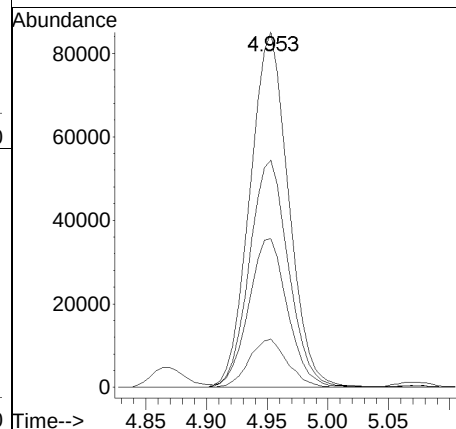
Tgt	Ion:117	Resp:	180383
Ion	Ratio	Lower	Upper
117	100		
119	96.0	62.7	130.3
121	31.3	20.3	42.1
82	24.6	16.4	34.2

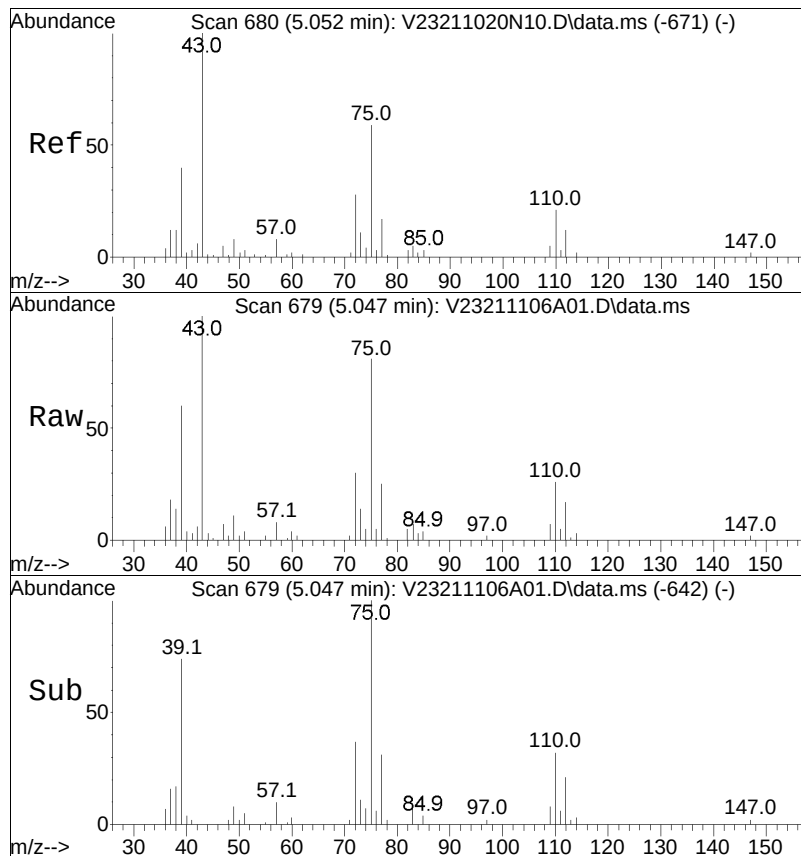




#37
 1,1,1-Trichloroethane
 Concen: 44.91 ug/L
 RT: 4.953 min Scan# 661
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

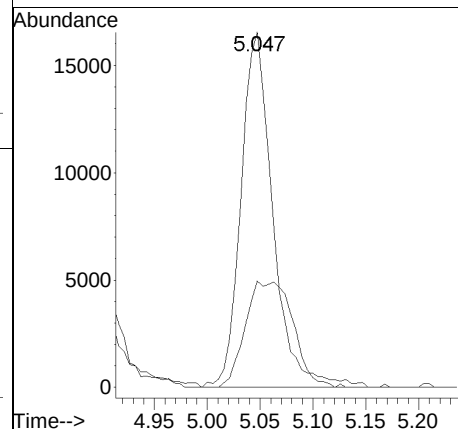
Tgt Ion:	97	Resp:	188196
Ion Ratio	Lower	Upper	
97	100		
99	64.7	41.5	86.3
61	42.4	27.4	57.0
63	13.5	9.0	18.6

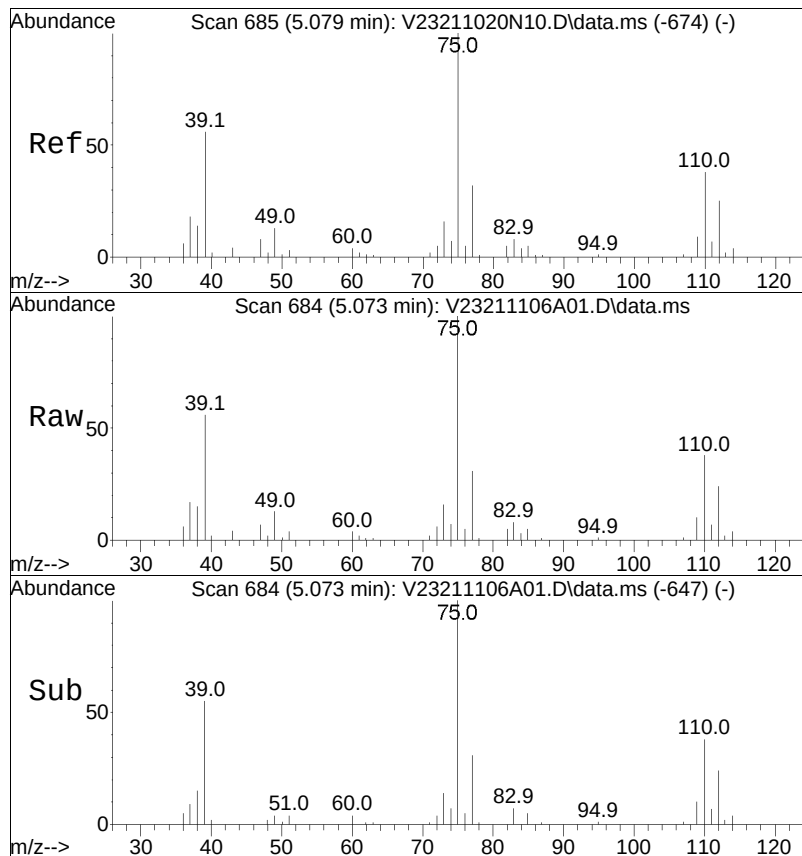




#39
 2-Butanone
 Concen: 40.55 ug/L
 RT: 5.047 min Scan# 679
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

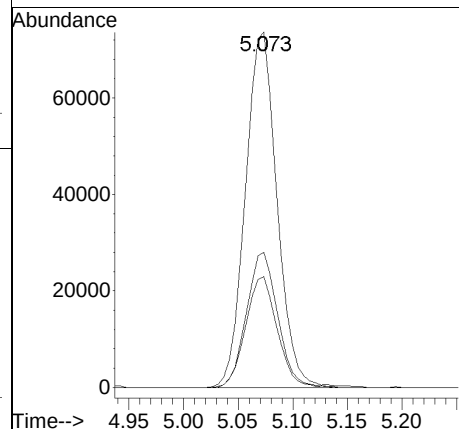
Tgt Ion:	43	72	Ratio	100	44.3	Resp:	34838	Lower	Upper

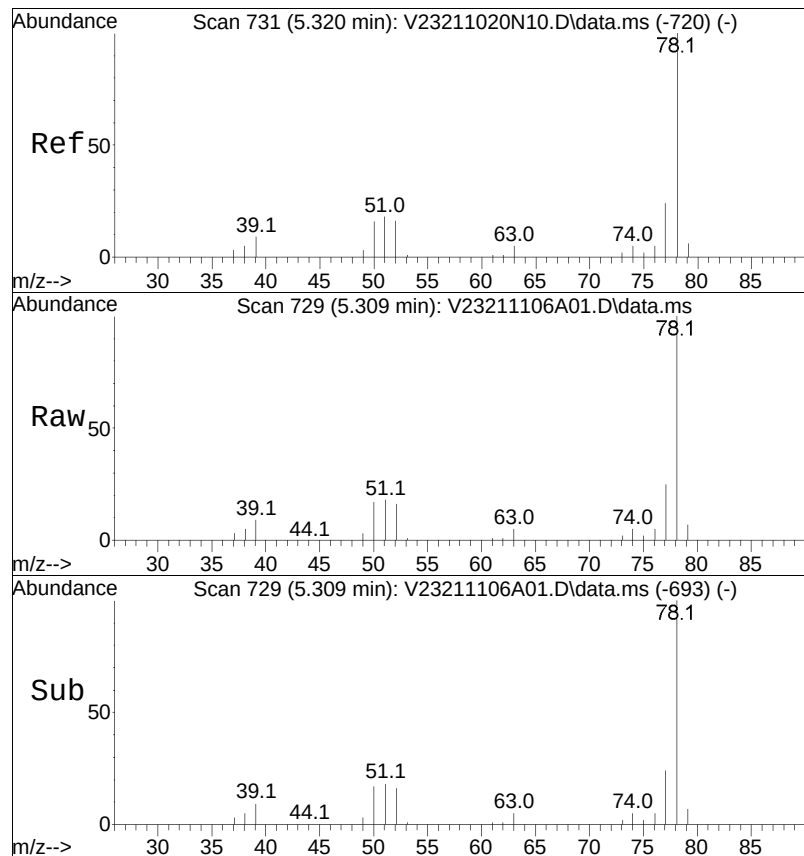




#40
 1,1-Dichloropropene
 Concen: 44.68 ug/L
 RT: 5.073 min Scan# 684
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

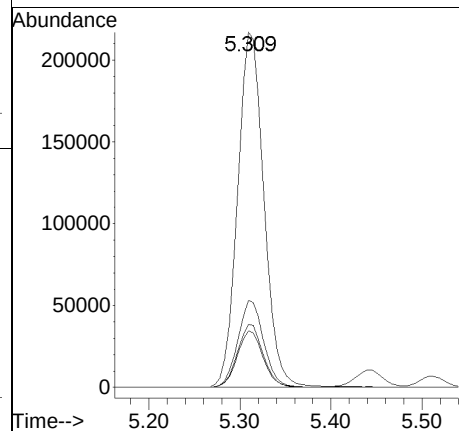
Tgt	Ion: 75	Resp:	148344
Ion	Ratio	Lower	Upper
75	100		
110	37.5	23.6	49.0
77	30.9	20.4	42.4

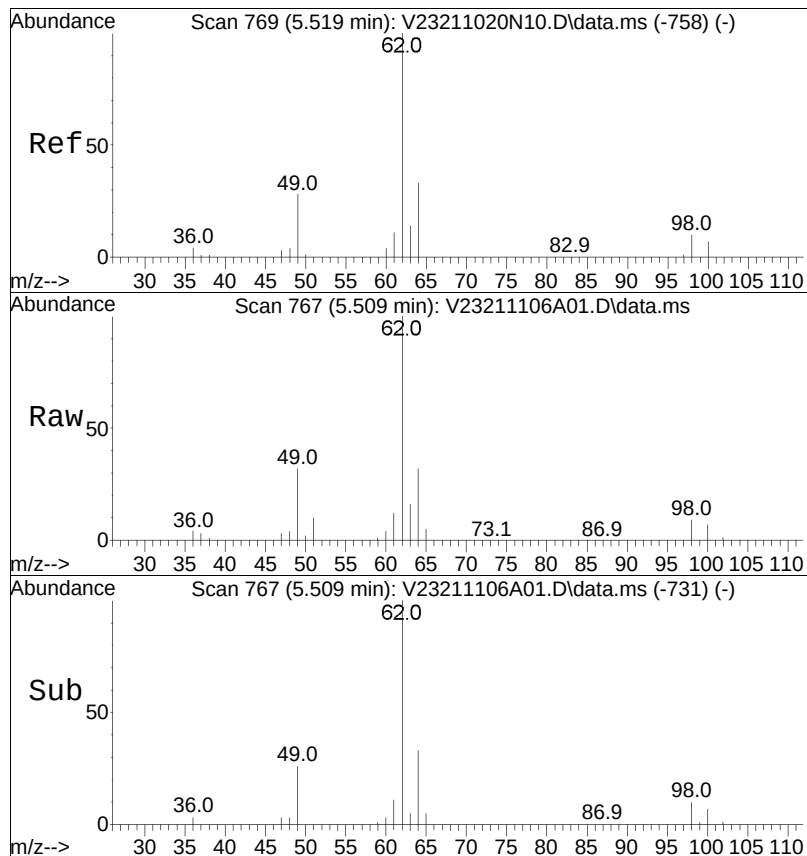




#41
Benzene
Concen: 42.30 ug/L
RT: 5.309 min Scan# 729
Delta R.T. -0.011 min
Lab File: V23211106A01.D
Acq: 06 Nov 2021 06:05 am

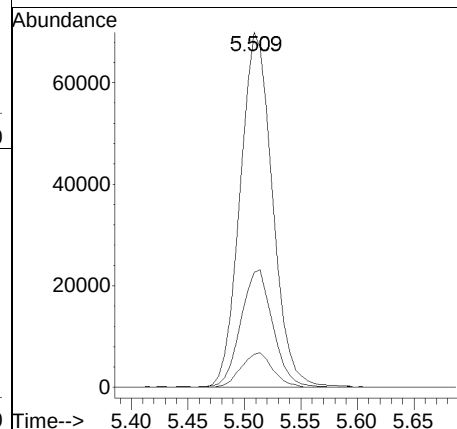
Tgt	Ion: 78	Resp:	435640
Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.7	32.5
51	17.4	9.9	20.5
52	15.7	9.5	19.7

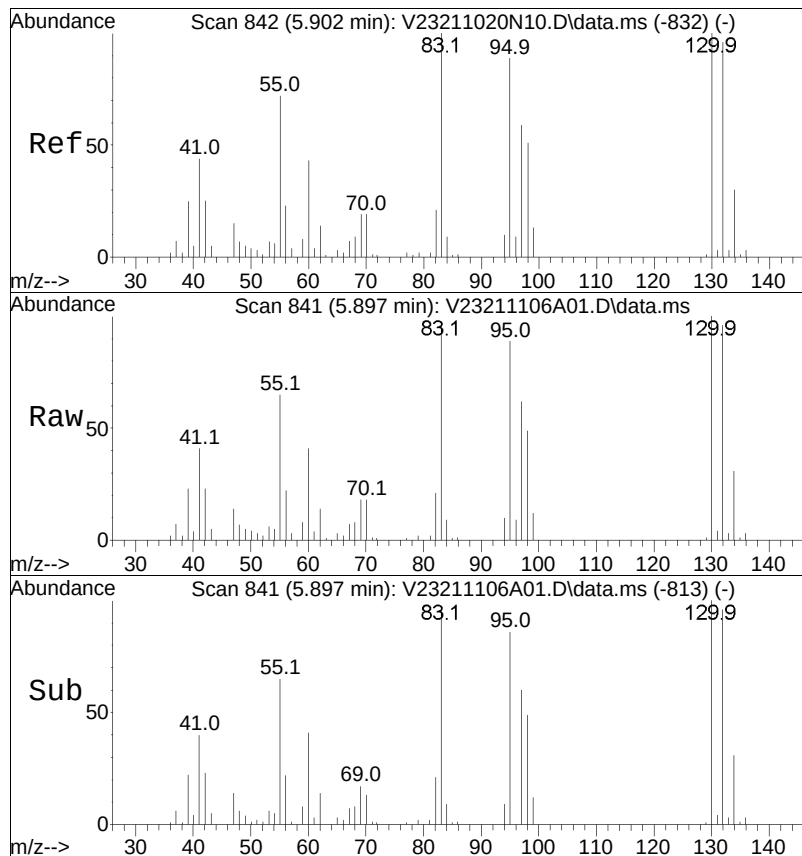




#44
 1,2-Dichloroethane
 Concen: 40.45 ug/L
 RT: 5.509 min Scan# 767
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

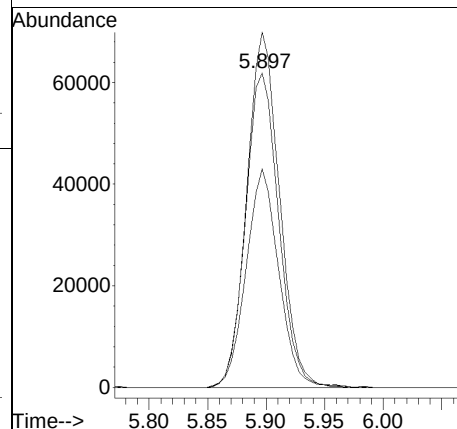
Tgt Ion:	62	Resp:	139441
Ion Ratio	Lower	Upper	
62	100		
64	32.9	12.7	52.7
98	9.6	0.0	29.7

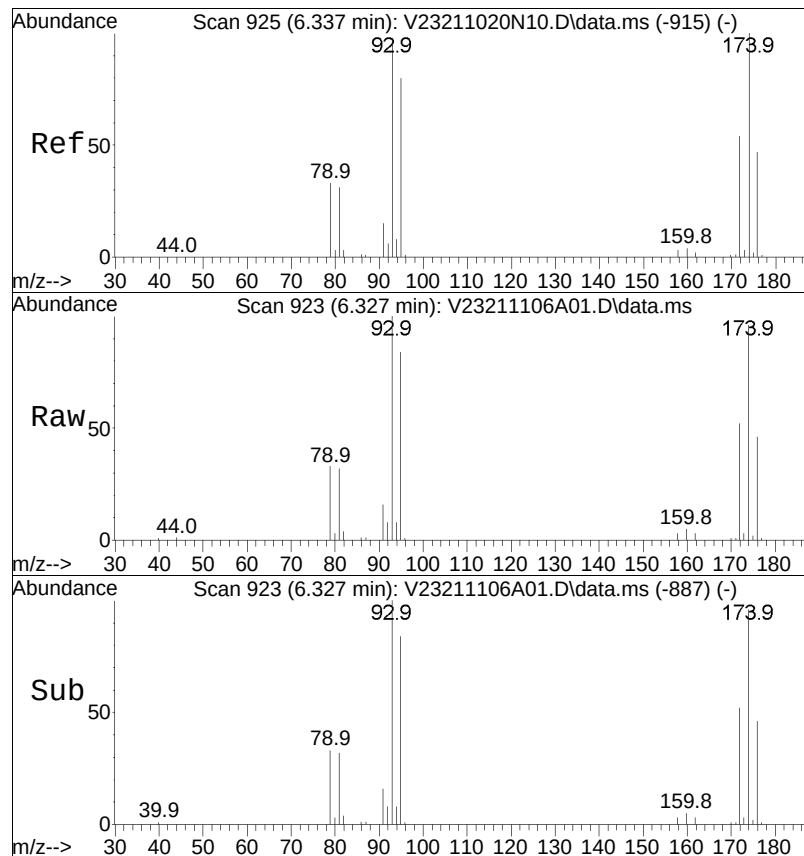




#48
 Trichloroethene
 Concen: 42.78 ug/L
 RT: 5.897 min Scan# 841
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

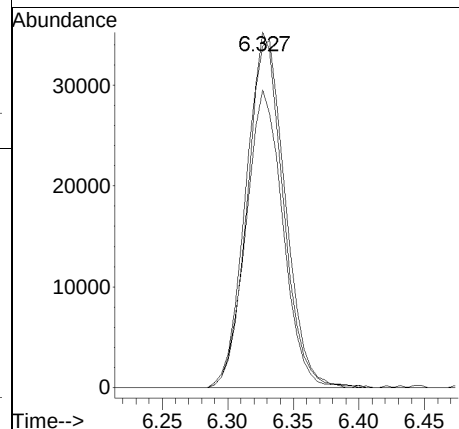
Tgt Ion:	95	Resp:	121759
Ion Ratio	Lower	Upper	
95	100		
97	68.5	54.3	81.5
130	111.6	82.2	123.2

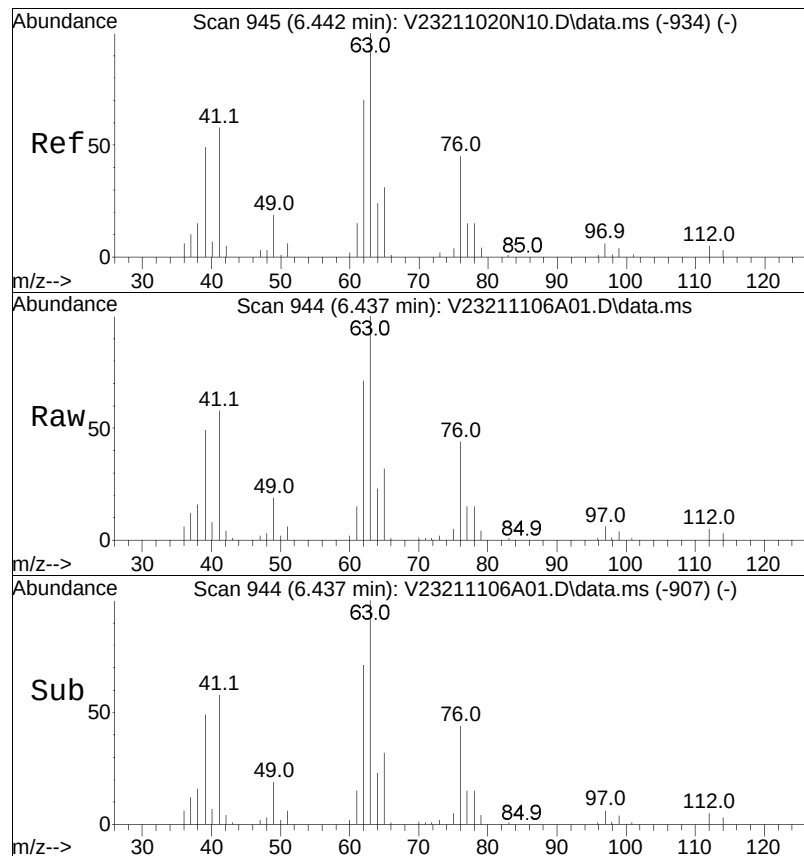




#50
 Dibromomethane
 Concen: 41.21 ug/L
 RT: 6.327 min Scan# 923
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

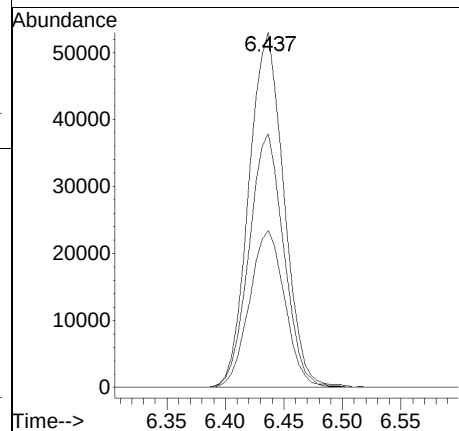
Tgt Ion:	93	Resp:	69287
Ion Ratio	Lower	Upper	
93	100		
95	83.4	66.1	99.1
174	100.5	84.2	126.2

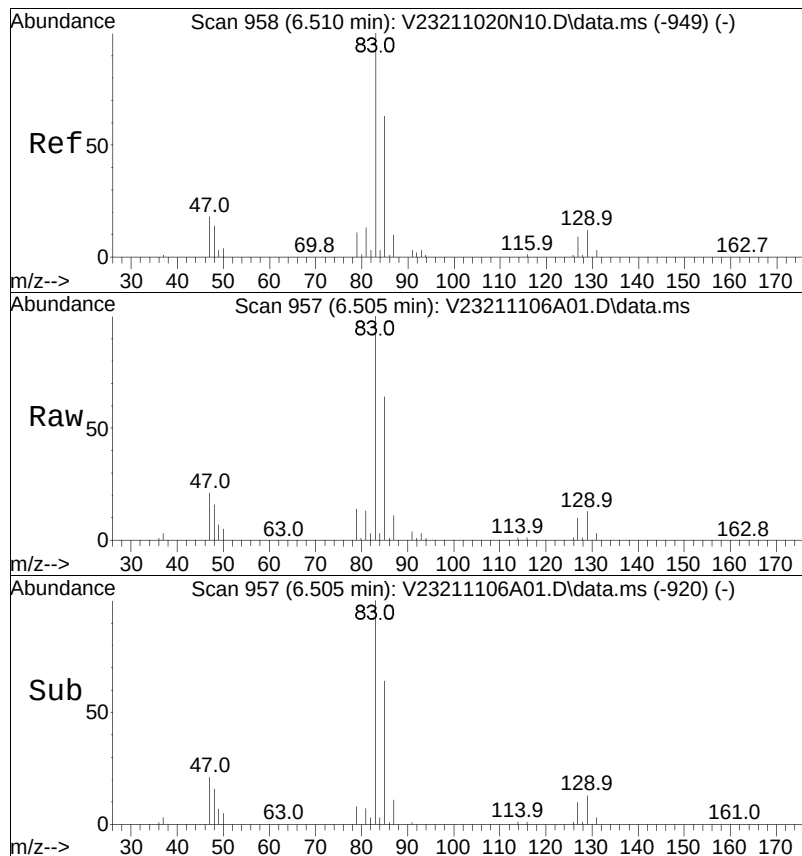




#51
 1,2-Dichloropropane
 Concen: 41.45 ug/L
 RT: 6.437 min Scan# 944
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt	Ion: 63	Resp:	110260
Ion	Ratio	Lower	Upper
63	100		
62	71.0	56.9	85.3
76	44.7	35.0	52.4





#54

Bromodichloromethane

Concen: 44.34 ug/L

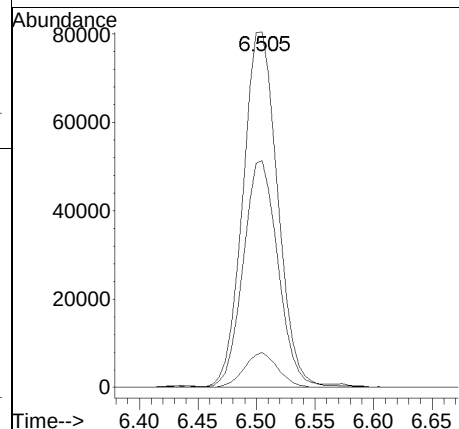
RT: 6.505 min Scan# 957

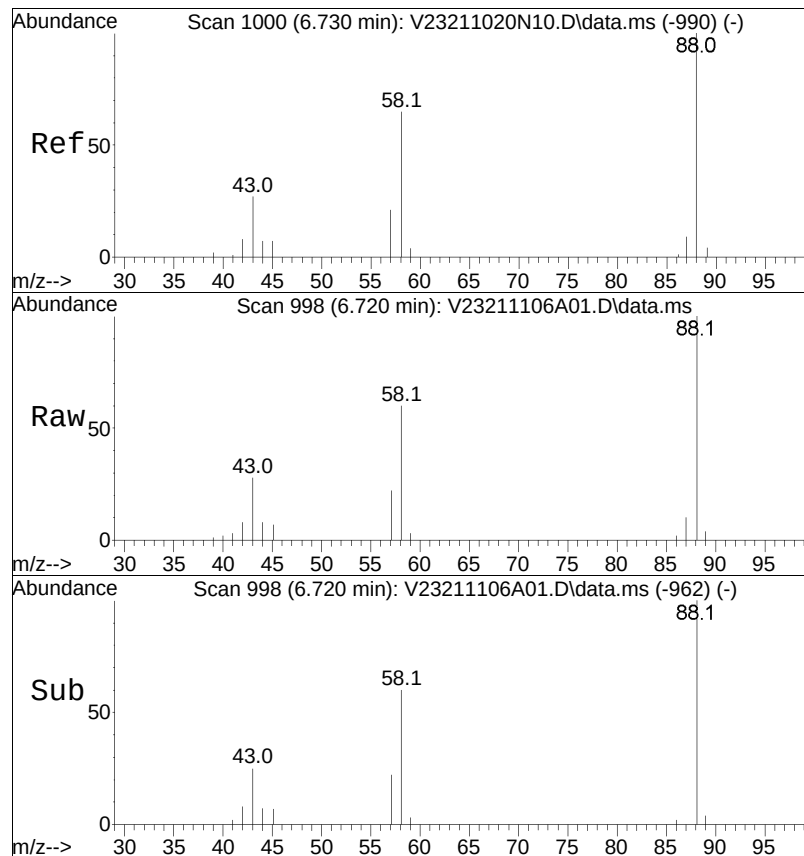
Delta R.T. -0.005 min

Lab File: V23211106A01.D

Acq: 06 Nov 2021 06:05 am

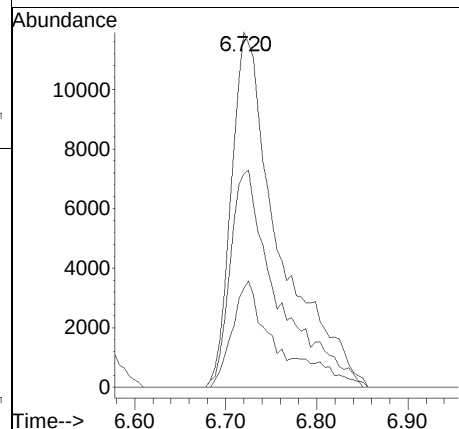
Tgt	Ion: 83	Resp:	166353
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.3	76.9
127	9.5	6.5	9.7

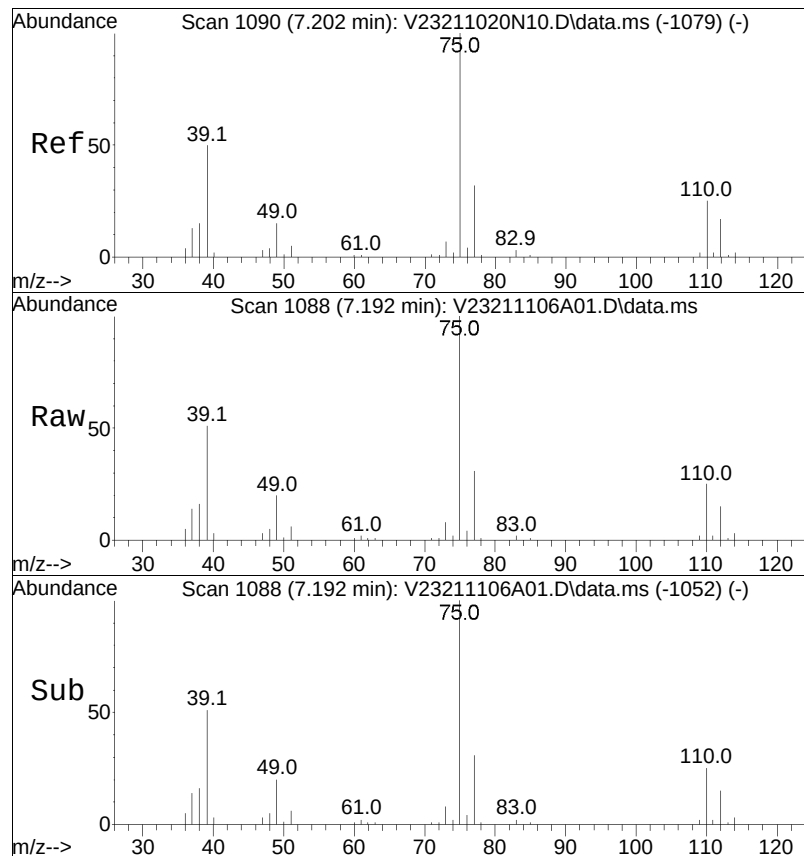




#57
 1,4-Dioxane
 Concen: 2132.80 ug/L
 RT: 6.720 min Scan# 998
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

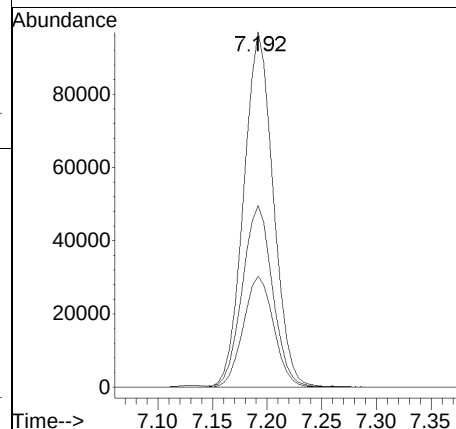
Tgt Ion	Ratio	Lower	Upper
88	100		
58	61.7	50.2	75.2
43	22.4	19.1	28.7

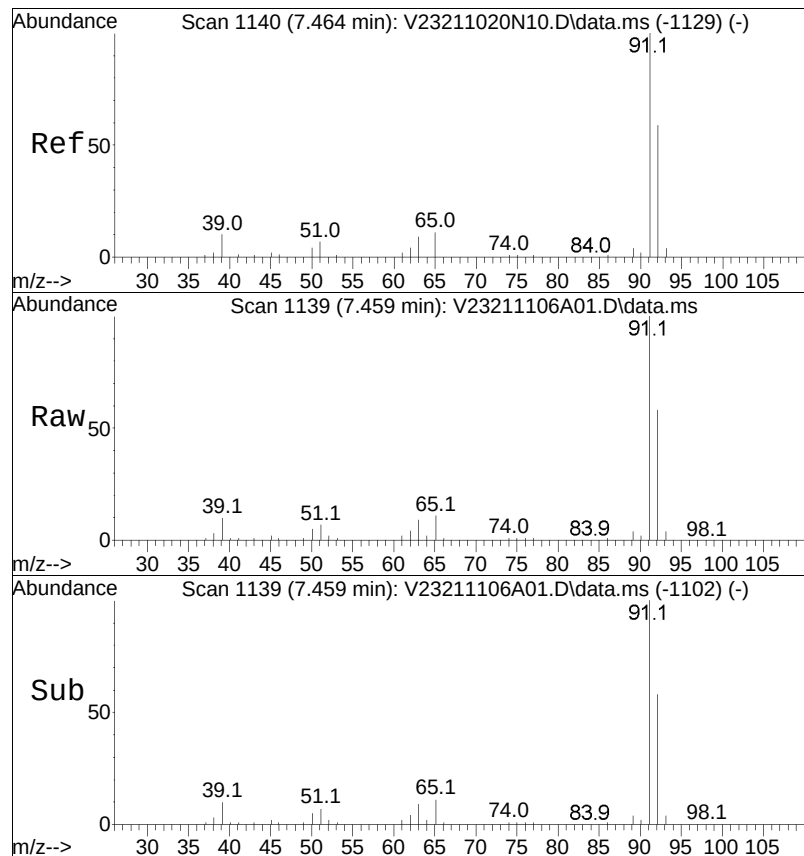




#58
 cis-1,3-Dichloropropene
 Concen: 44.44 ug/L
 RT: 7.192 min Scan# 1088
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

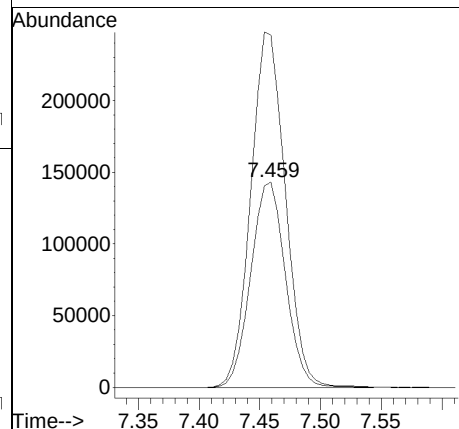
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.9	38.9
39	51.7	34.5	51.7

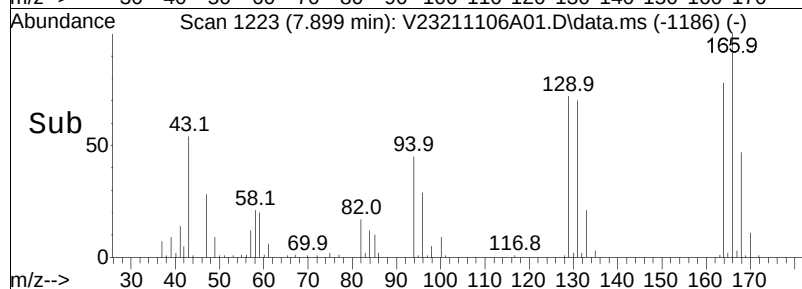
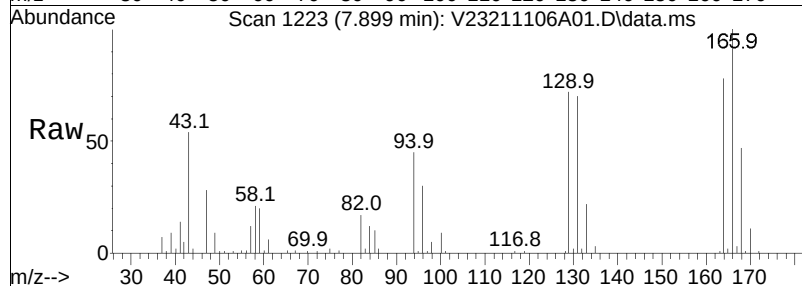
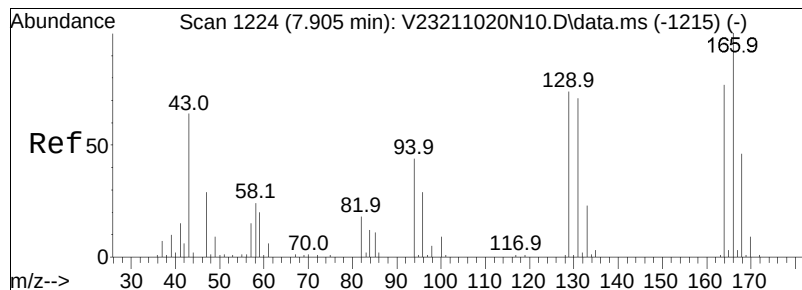




#61
 Toluene
 Concen: 44.53 ug/L
 RT: 7.459 min Scan# 1139
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.6	136.4	204.6





#62

4-Methyl-2-pentanone

Concen: 41.42 ug/L

RT: 7.899 min Scan# 1223

Delta R.T. -0.006 min

Lab File: V23211106A01.D

Acq: 06 Nov 2021 06:05 am

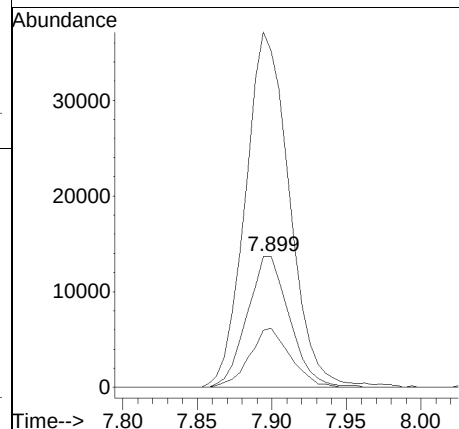
Tgt Ion: 58 Resp: 27257

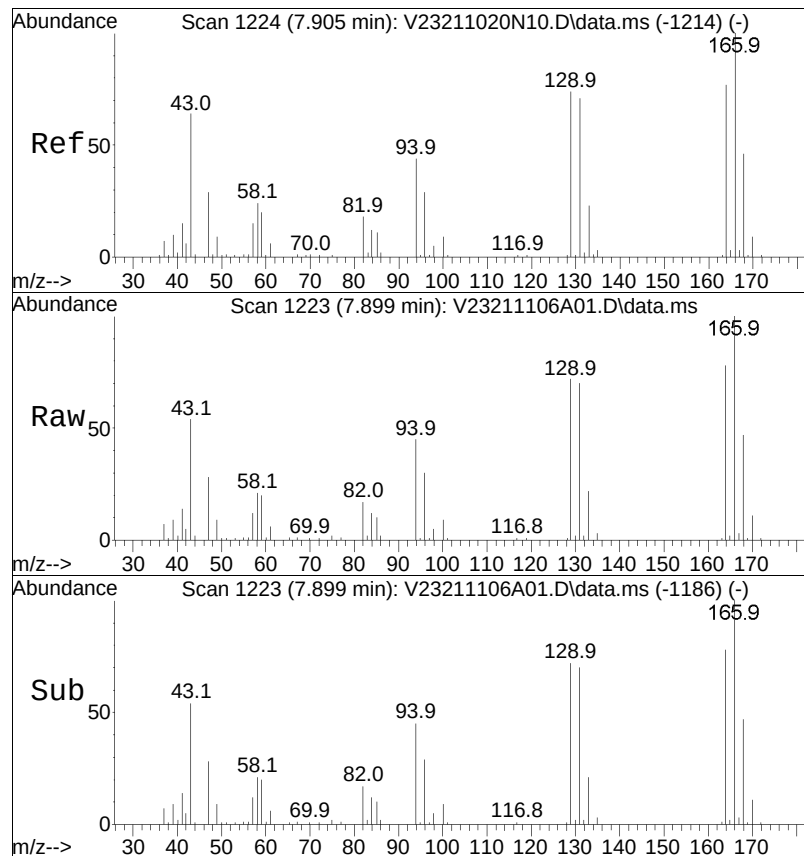
Ion Ratio Lower Upper

58 100

100 43.5 33.1 49.7

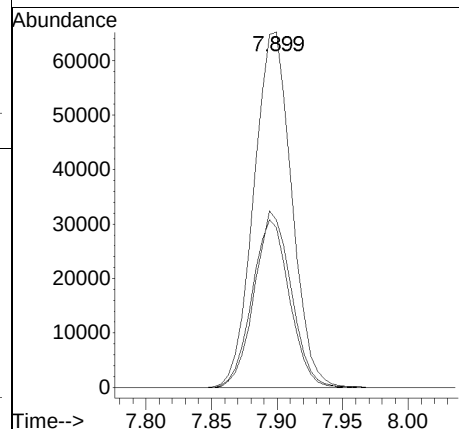
43 281.1 179.0 268.6#

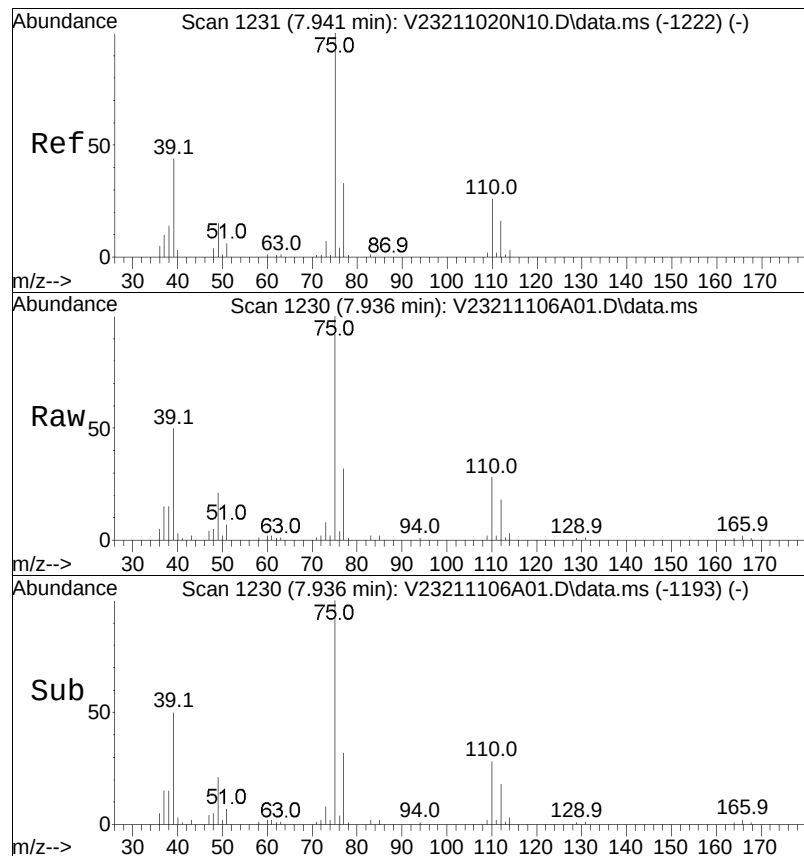




#63
 Tetrachloroethene
 Concen: 45.97 ug/L
 RT: 7.899 min Scan# 1223
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

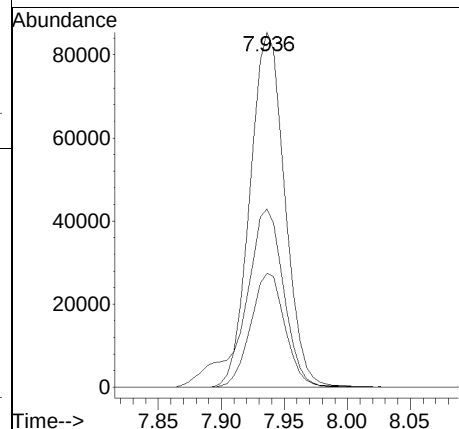
Tgt	Ion:166	Resp:	130892
Ion	Ratio	Lower	Upper
166	100		
168	48.0	28.0	68.0
94	46.6	23.3	63.3

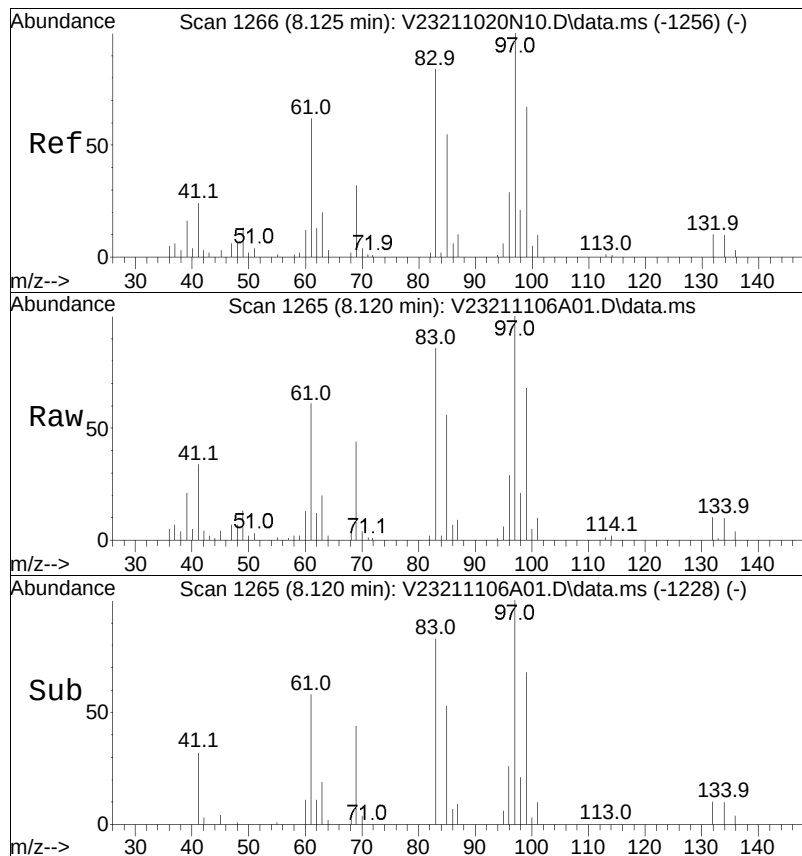




#65
 trans-1,3-Dichloropropene
 Concen: 47.97 ug/L
 RT: 7.936 min Scan# 1230
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

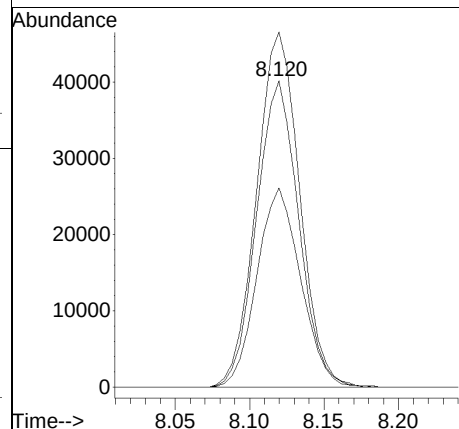
Tgt Ion:	75	Resp:	164476
Ion Ratio	Lower	Upper	
75	100		
77	31.8	12.7	52.7
39	57.0	29.5	69.5

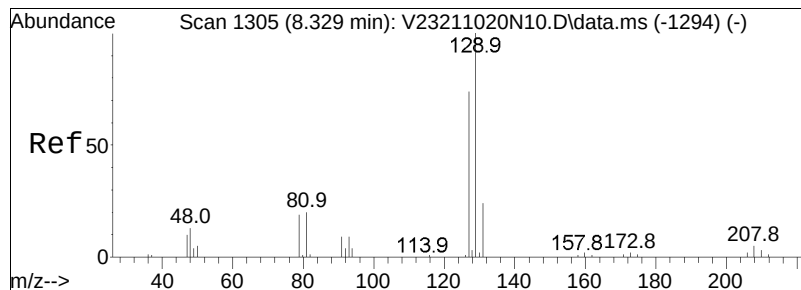




#68
 1,1,2-Trichloroethane
 Concen: 43.43 ug/L
 RT: 8.120 min Scan# 1265
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

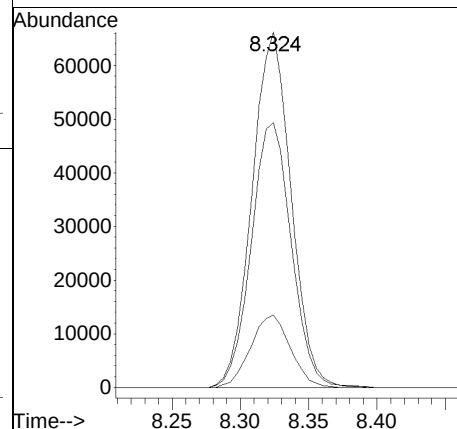
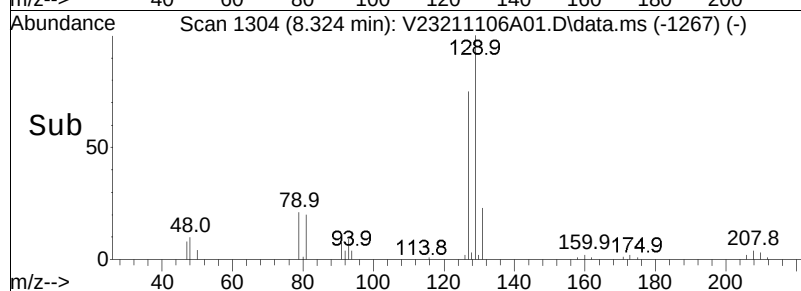
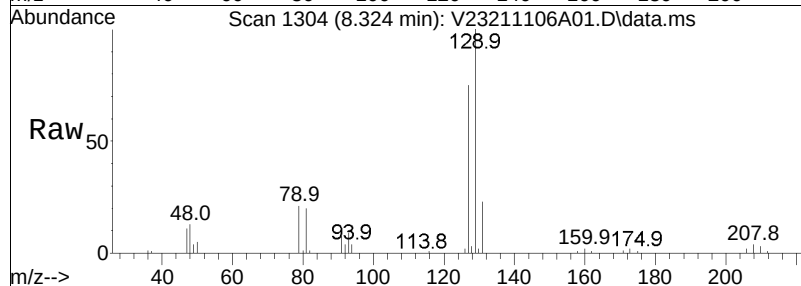
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	79079		
97	118.9		99.1	139.1
85	67.6		46.8	86.8

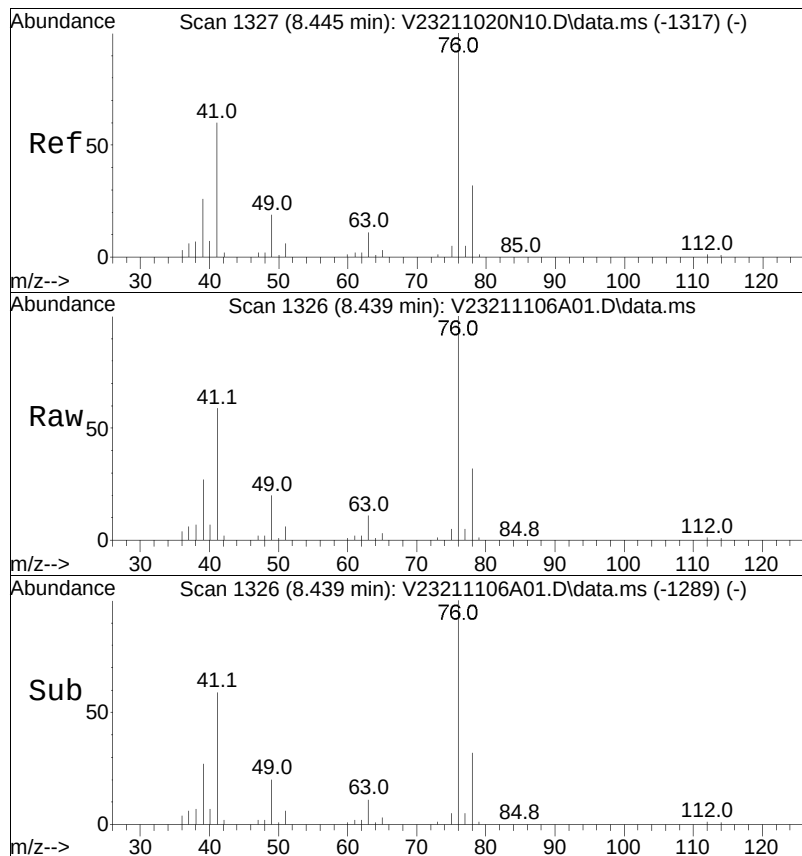




#69
 Chlorodibromomethane
 Concen: 42.85 ug/L
 RT: 8.324 min Scan# 1304
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

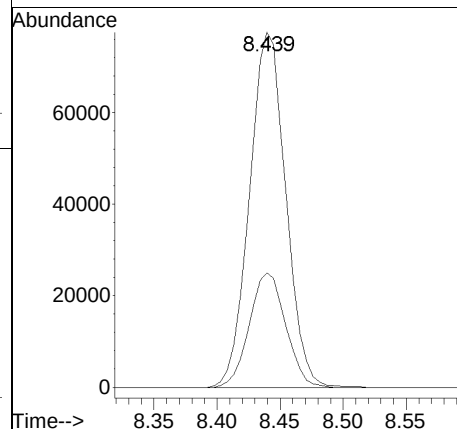
Tgt Ion	Ratio	Lower	Upper
129	100		
81	20.7	0.0	35.1
127	76.3	57.6	97.6

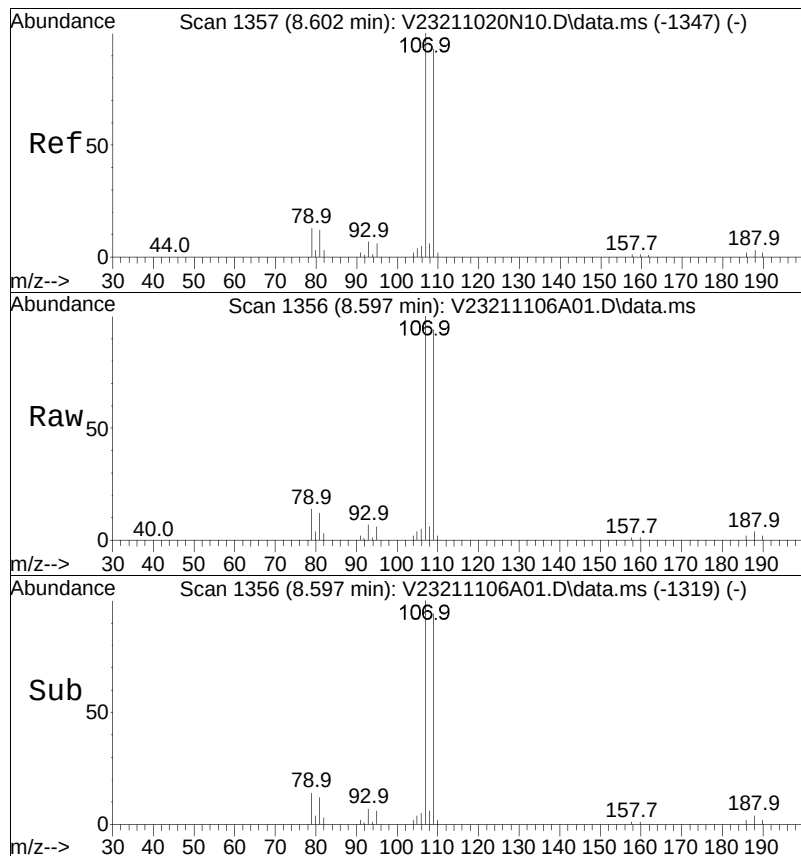




#70
 1,3-Dichloropropane
 Concen: 43.39 ug/L
 RT: 8.439 min Scan# 1326
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

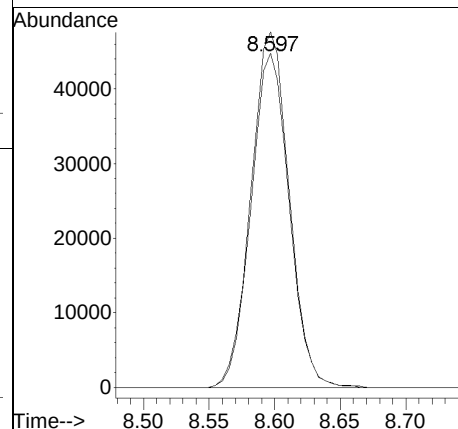
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

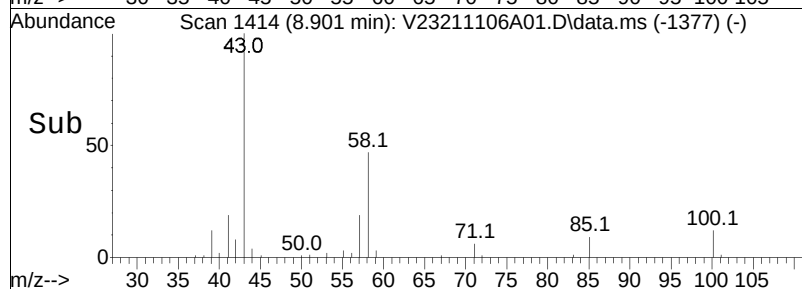
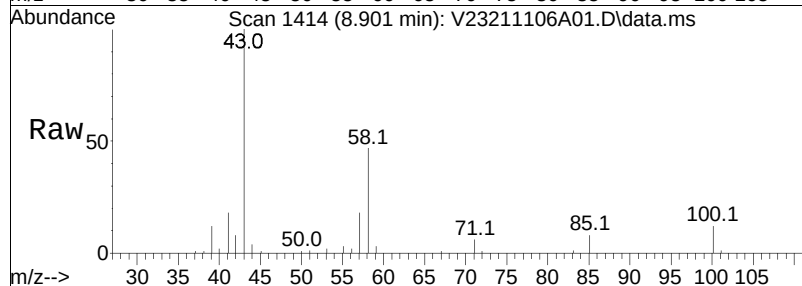
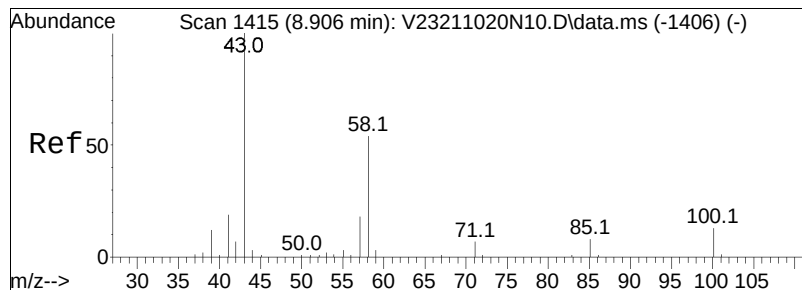




#71
 1,2-Dibromoethane
 Concen: 45.32 ug/L
 RT: 8.597 min Scan# 1356
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1





#72

2-Hexanone

Concen: 41.82 ug/L

RT: 8.901 min Scan# 1414

Delta R.T. -0.005 min

Lab File: V23211106A01.D

Acq: 06 Nov 2021 06:05 am

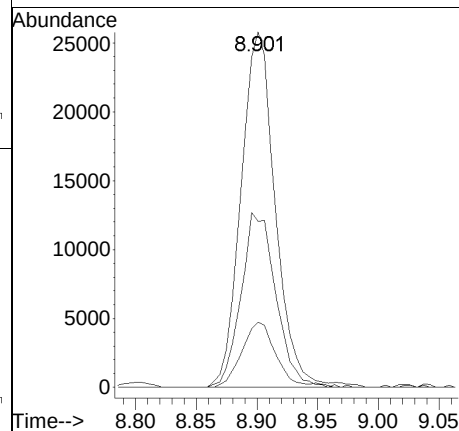
Tgt Ion: 43 Resp: 50760

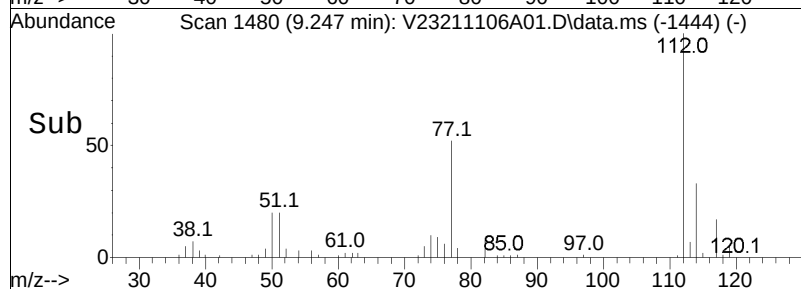
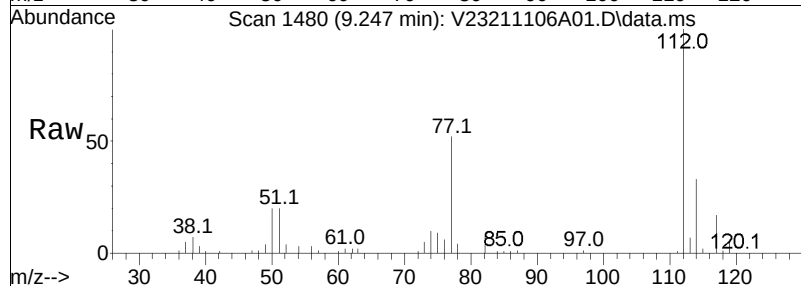
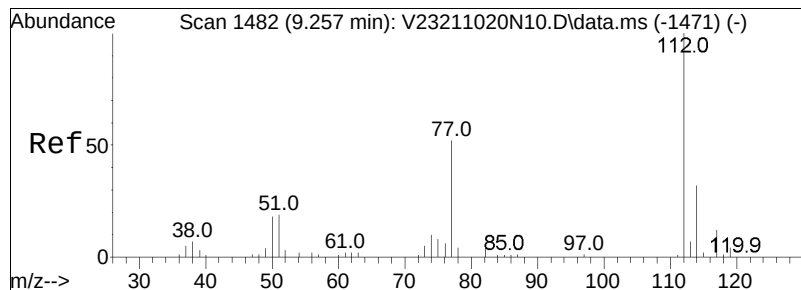
Ion Ratio Lower Upper

43 100

58 49.8 49.2 73.8

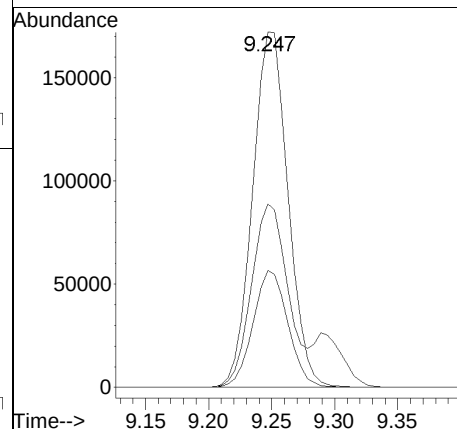
57 18.5 17.4 26.2

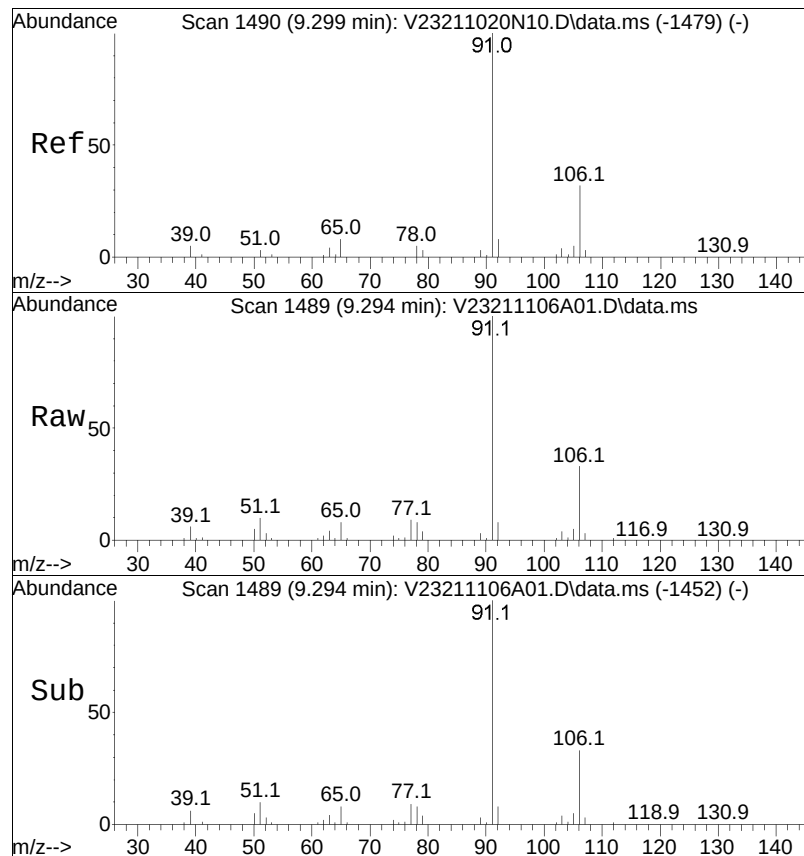




#73
 Chlorobenzene
 Concen: 44.93 ug/L
 RT: 9.247 min Scan# 1480
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

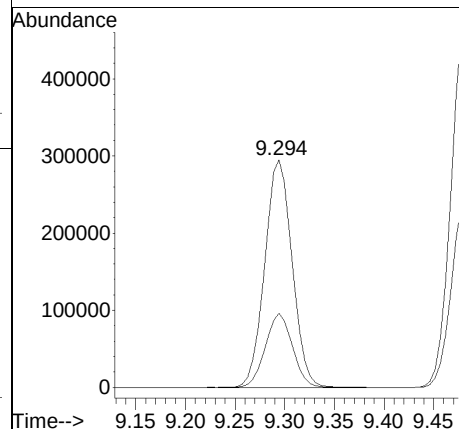
Tgt	Ion:112	Resp:	336426
Ion	Ratio	Lower	Upper
112	100		
77	53.6	58.5	87.7#
114	32.4	25.8	38.6

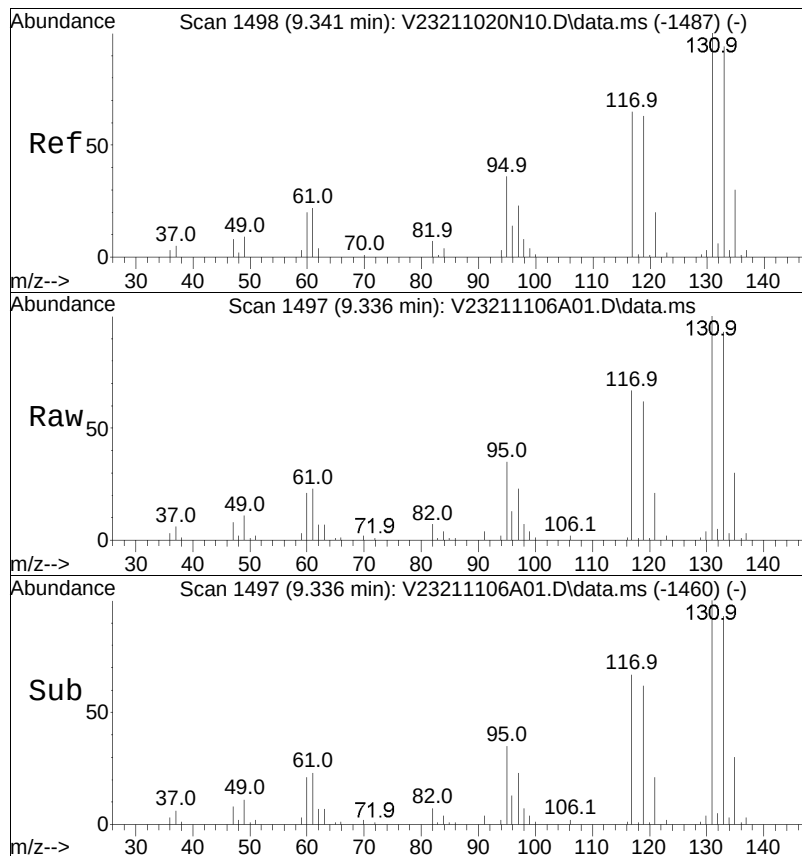




#74
 Ethylbenzene
 Concen: 45.53 ug/L
 RT: 9.294 min Scan# 1489
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

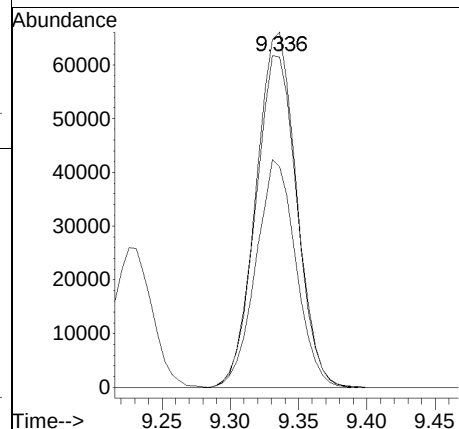
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.2	37.8

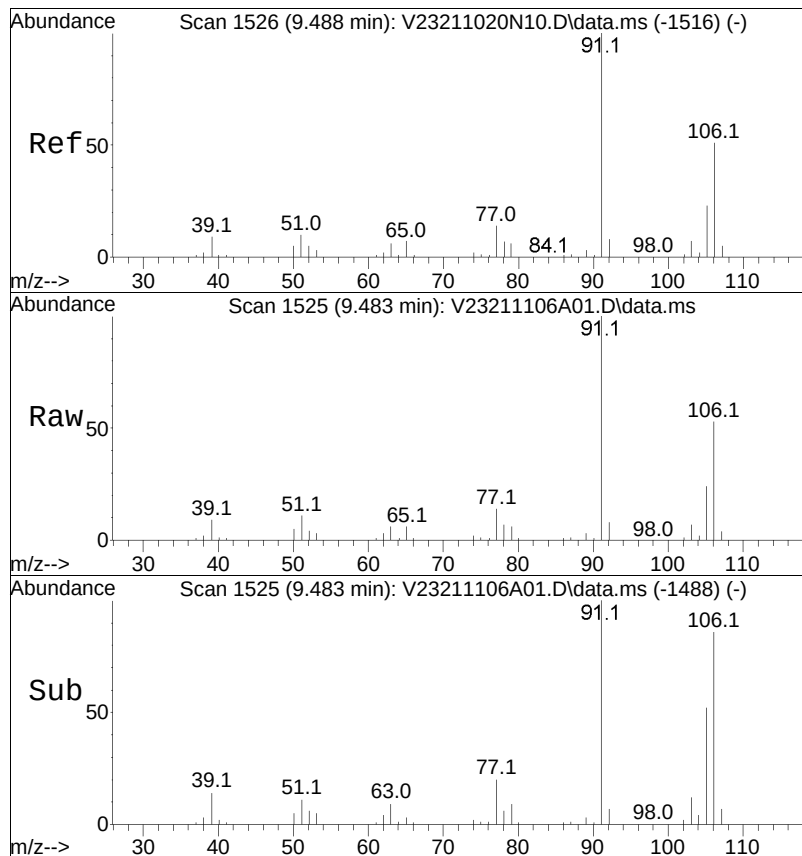




#75
 1,1,1,2-Tetrachloroethane
 Concen: 48.26 ug/L
 RT: 9.336 min Scan# 1497
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

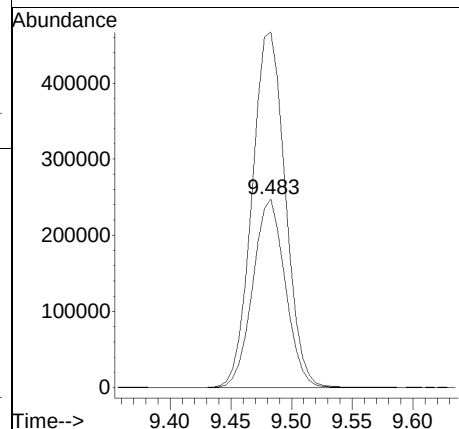
Tgt Ion:	131	Resp:	136685
Ion Ratio	Lower	Upper	
131	100		
133	94.8	75.5	115.5
119	63.1	46.0	86.0

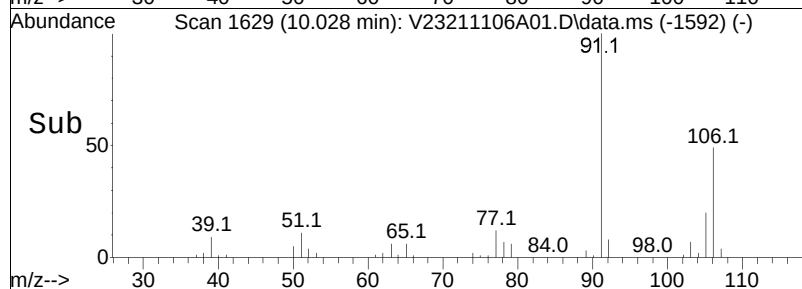
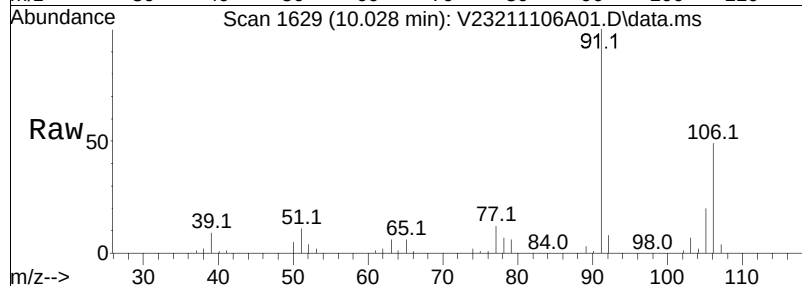
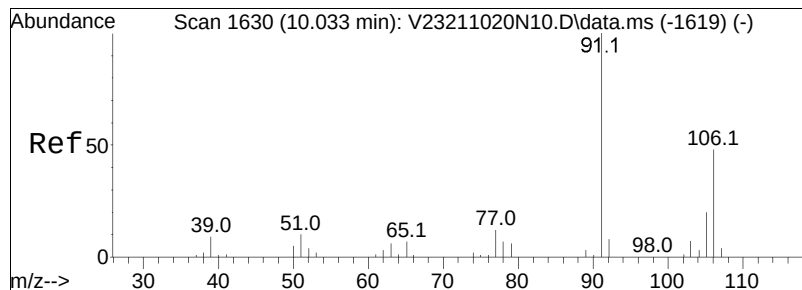




#76
 p/m Xylene
 Concen: 93.92 ug/L
 RT: 9.483 min Scan# 1525
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	193.5	160.4	240.6	





#77

o Xylene

Concen: 92.46 ug/L

RT: 10.028 min Scan# 1629

Delta R.T. -0.005 min

Lab File: V23211106A01.D

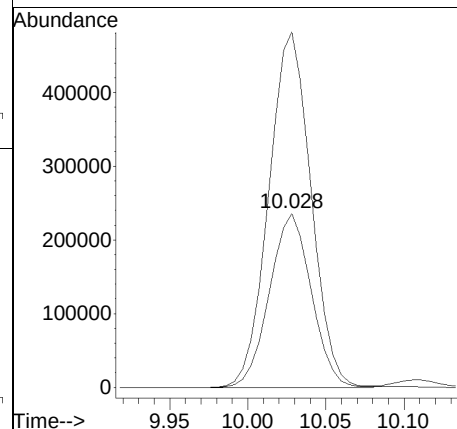
Acq: 06 Nov 2021 06:05 am

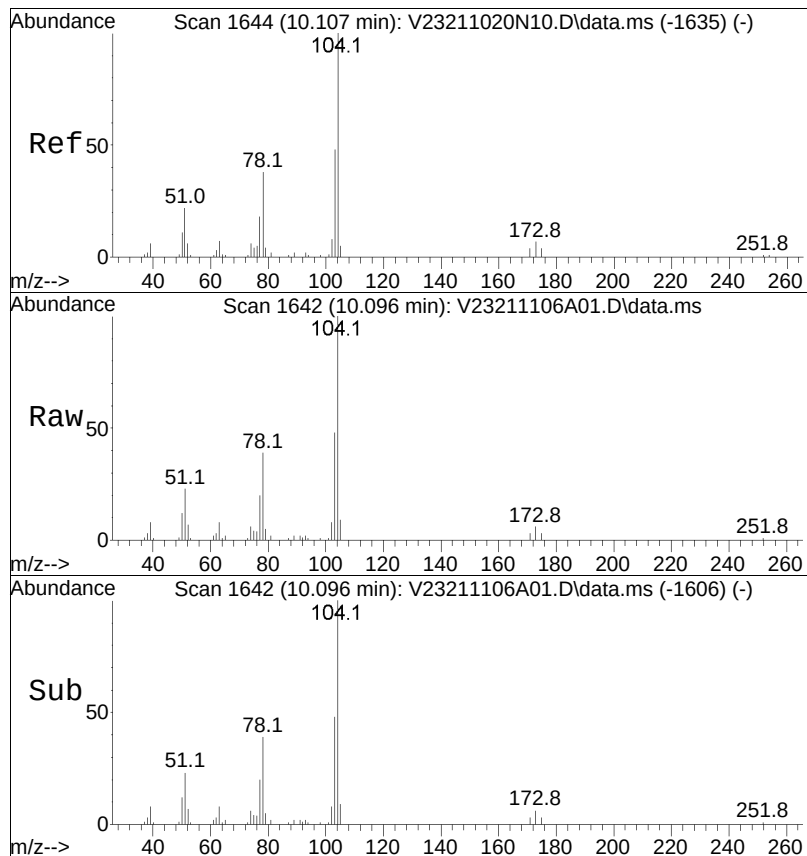
Tgt Ion:106 Resp: 438397

Ion Ratio Lower Upper

106 100

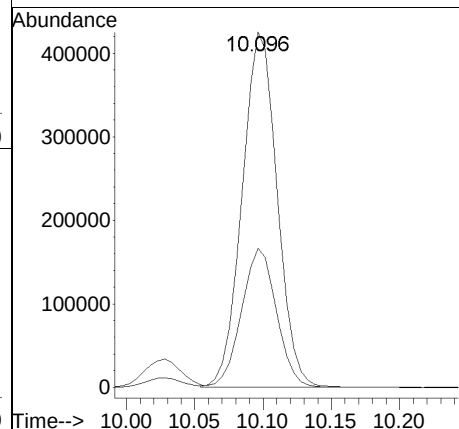
91 206.5 169.6 254.4

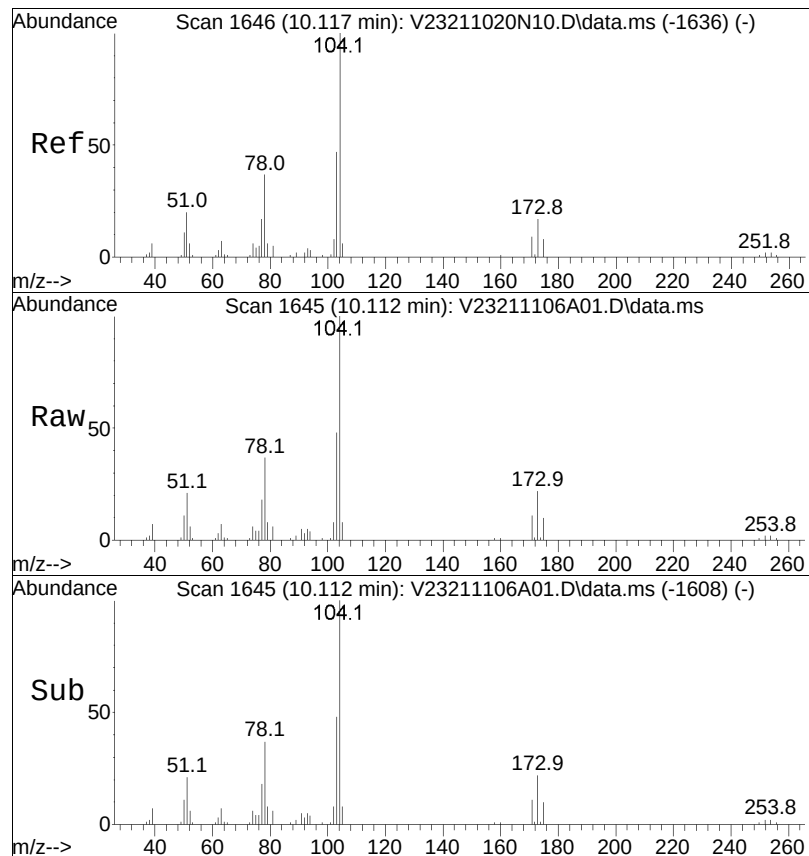




#78
 Styrene
 Concen: 82.04 ug/L
 RT: 10.096 min Scan# 1642
 Delta R.T. -0.011 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

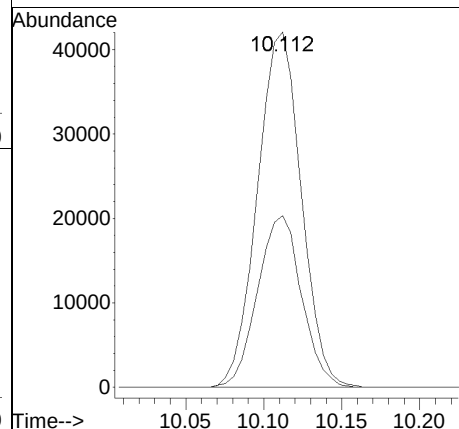
Tgt	Ion	Ratio	Lower	Upper
104	104	100		
78	39.0	33.8	50.6	

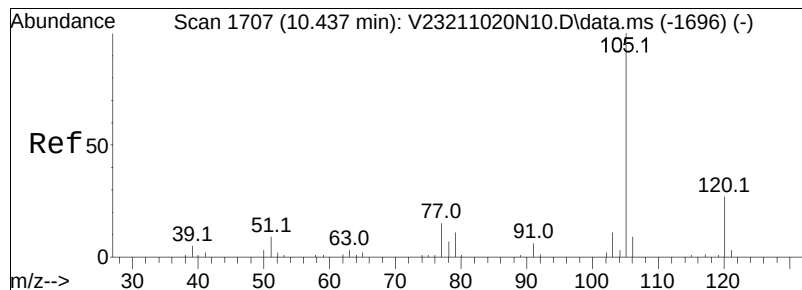




#80
 Bromoform
 Concen: 43.40 ug/L
 RT: 10.112 min Scan# 1645
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	28.7	68.7





#82

Isopropylbenzene

Concen: 46.66 ug/L

RT: 10.427 min Scan# 1705

Delta R.T. -0.010 min

Lab File: V23211106A01.D

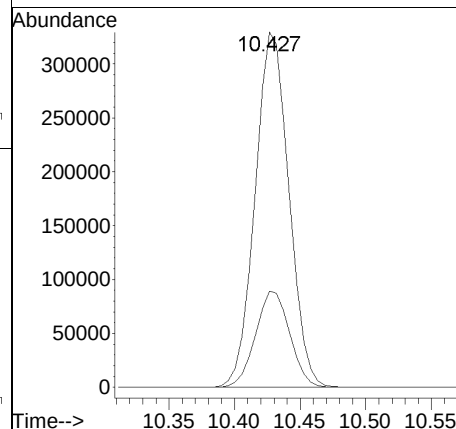
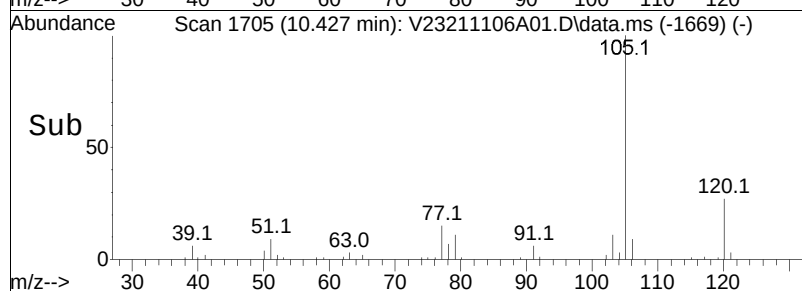
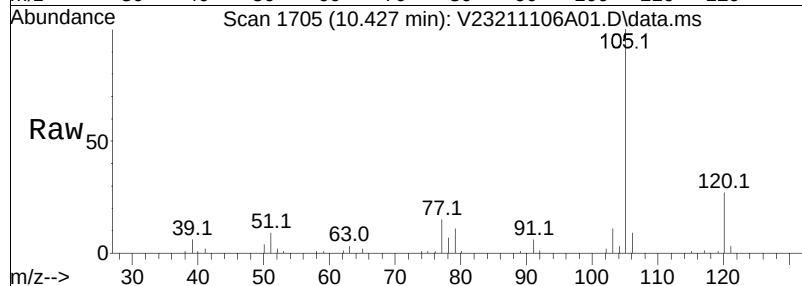
Acq: 06 Nov 2021 06:05 am

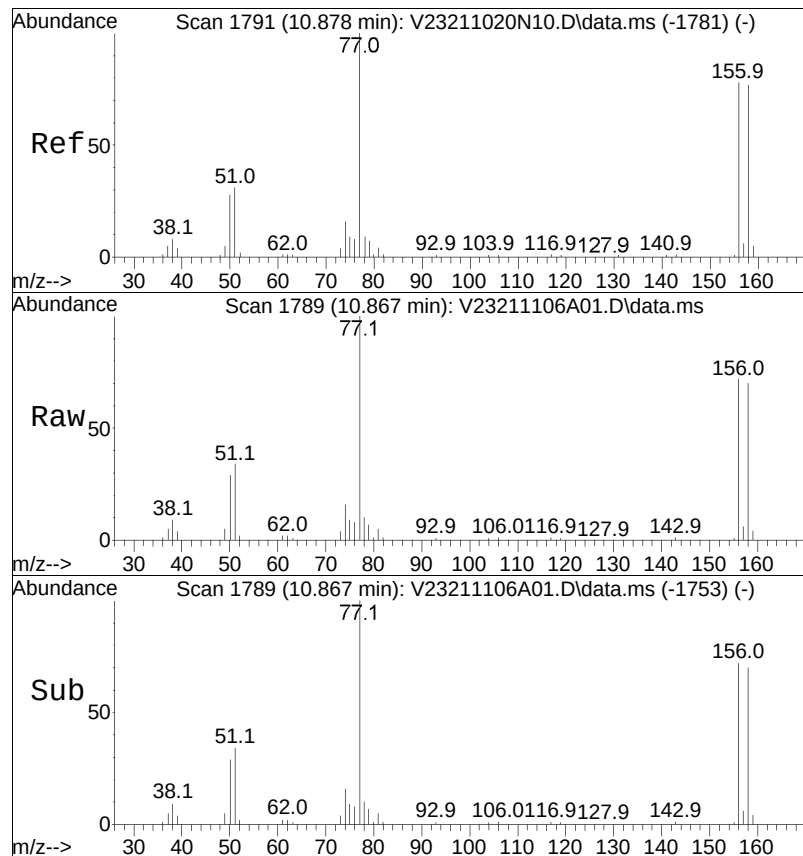
Tgt Ion:105 Resp: 591026

Ion Ratio Lower Upper

105 100

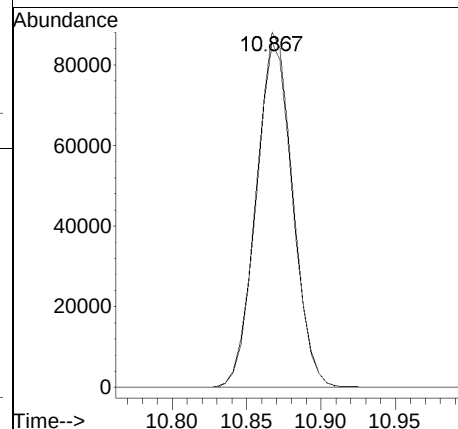
120 27.4 6.6 46.6

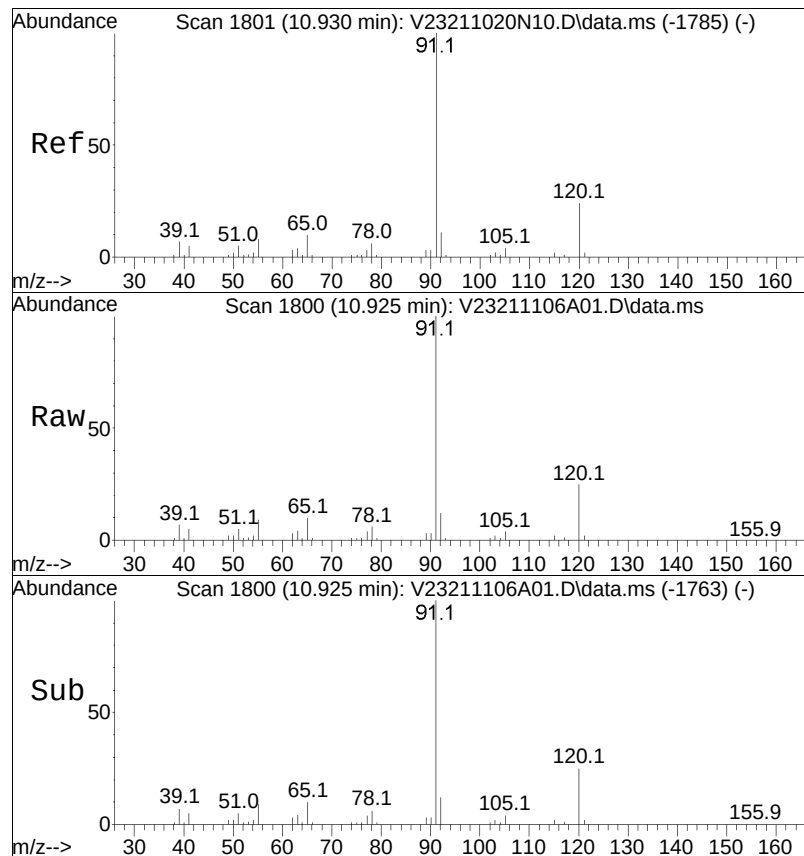




#84
 Bromobenzene
 Concen: 43.05 ug/L
 RT: 10.867 min Scan# 1789
 Delta R.T. -0.011 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

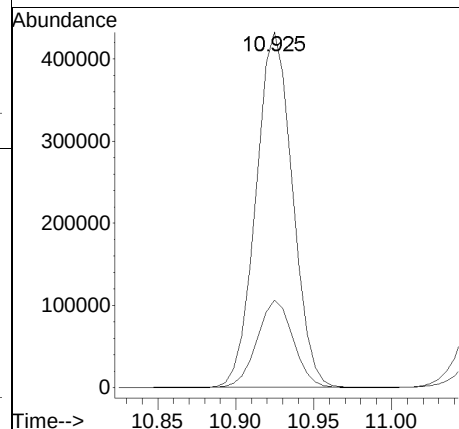
Tgt Ion	Ratio	Lower	Upper
156	100		
158	96.4	77.7	116.5

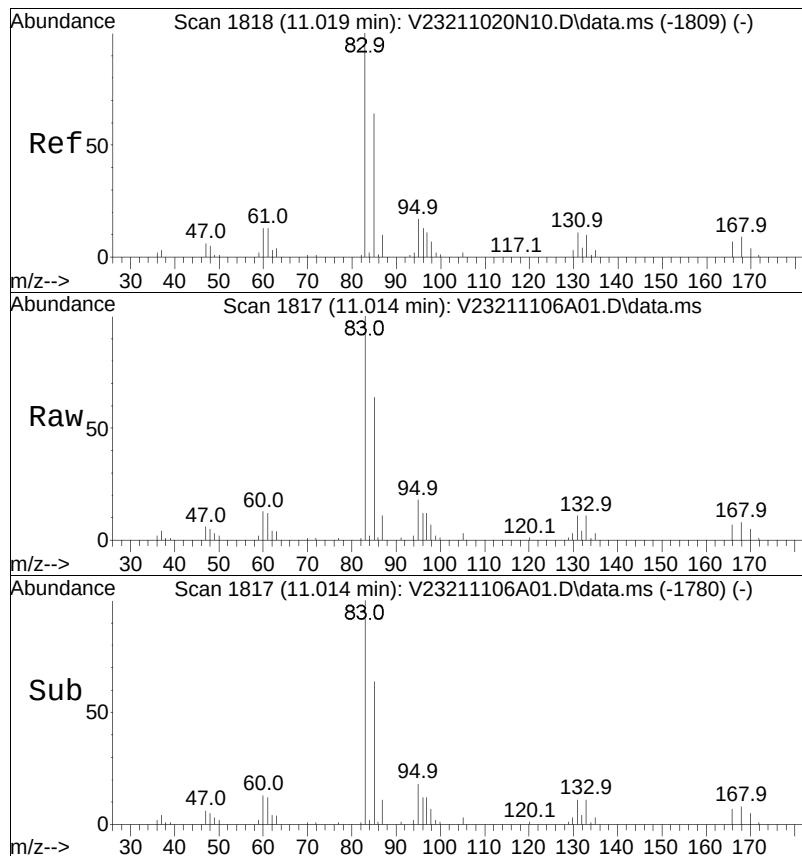




#85
 n-Propylbenzene
 Concen: 46.60 ug/L
 RT: 10.925 min Scan# 1800
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

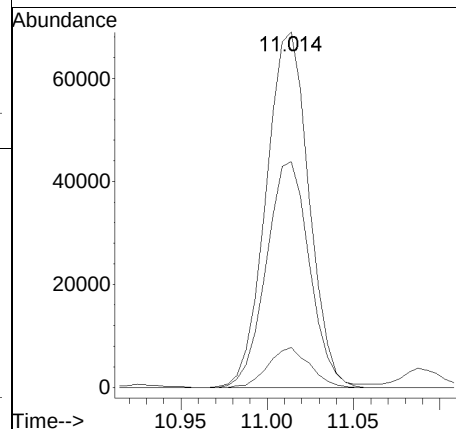
Tgt	Ion	Resp	Lower	Upper
91	100	702462		
120	24.3	18.2	27.2	

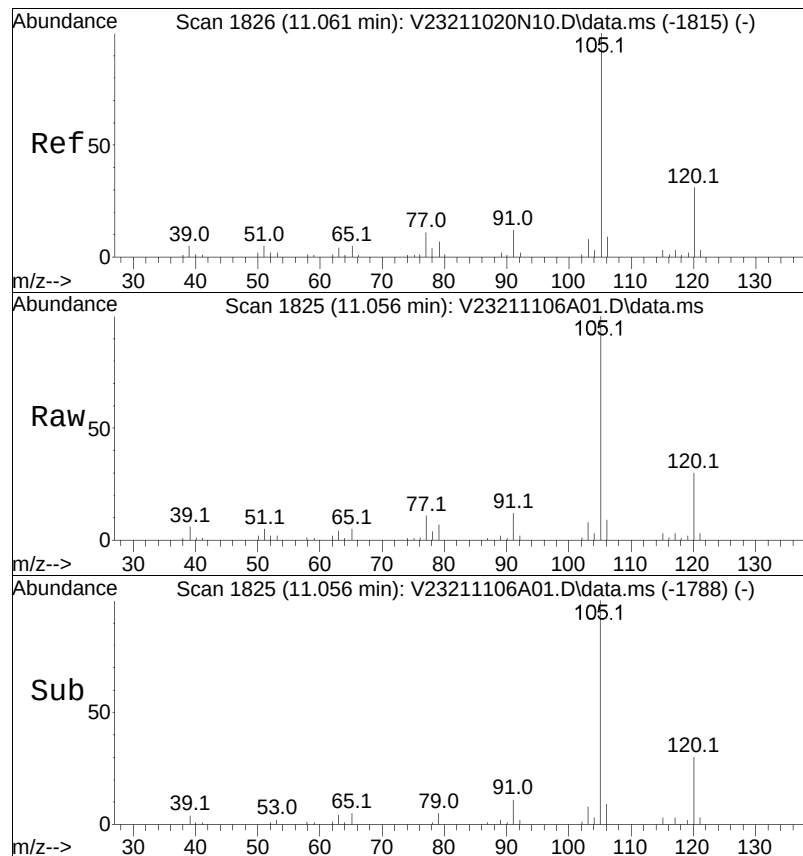




#87
 1,1,2,2-Tetrachloroethane
 Concen: 44.96 ug/L
 RT: 11.014 min Scan# 1817
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

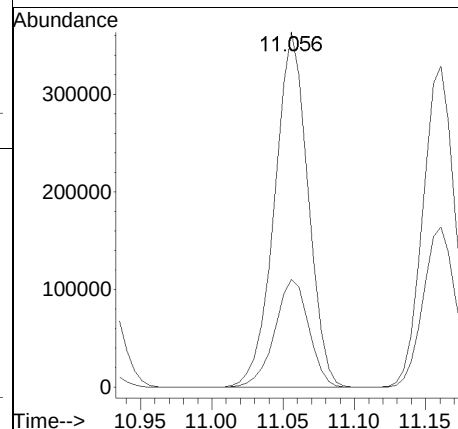
Tgt Ion:	83	Resp:	118849
Ion Ratio	Lower	Upper	
83	100		
131	10.9	0.0	30.1
85	64.5	45.1	85.1

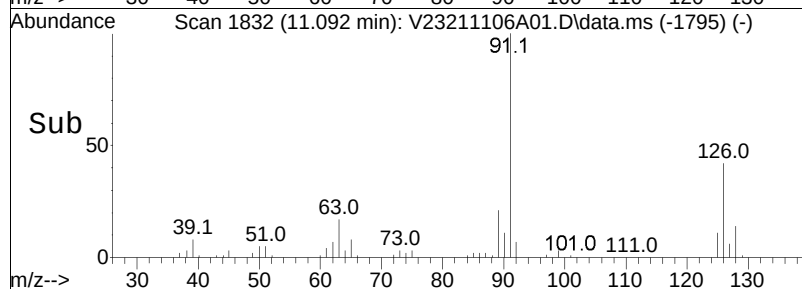
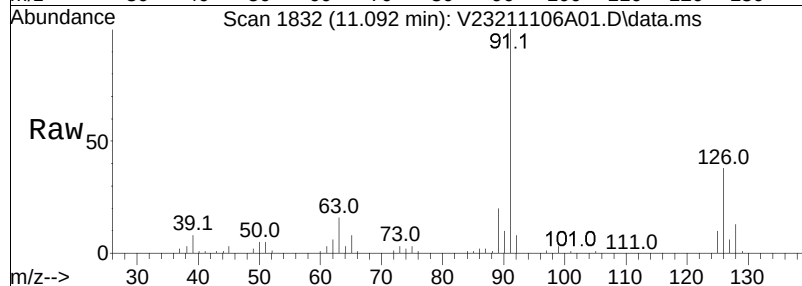
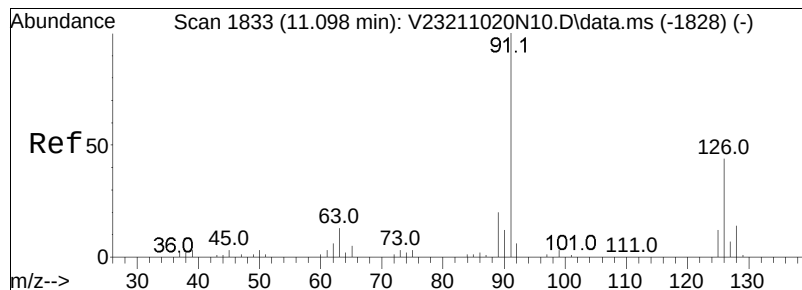




#88
 4-Ethyltoluene
 Concen: 46.38 ug/L
 RT: 11.056 min Scan# 1825
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	31.1	19.4	40.4





#89

2-Chlorotoluene

Concen: 47.67 ug/L M6

RT: 11.092 min Scan# 1832

Delta R.T. -0.006 min

Lab File: V23211106A01.D

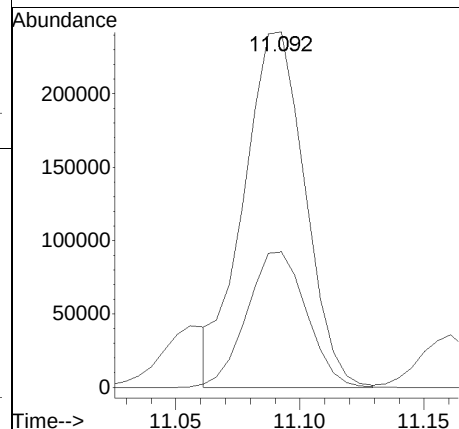
Acq: 06 Nov 2021 06:05 am

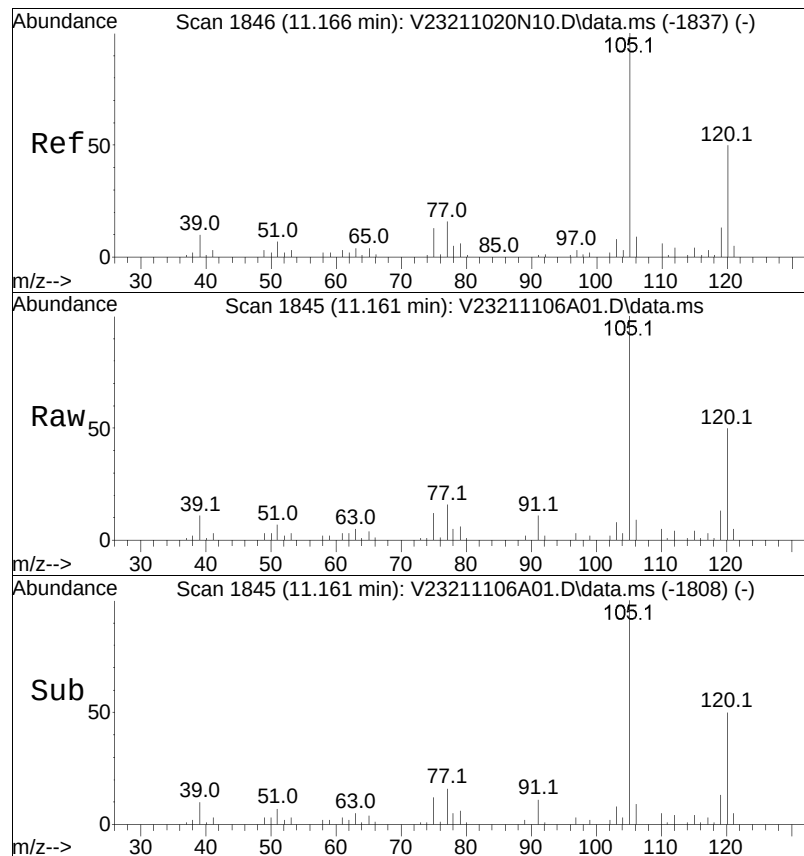
Tgt Ion: 91 Resp: 416715

Ion Ratio Lower Upper

91 100

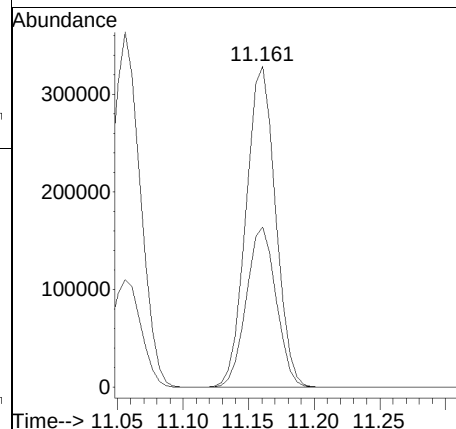
126 37.0 26.7 40.1

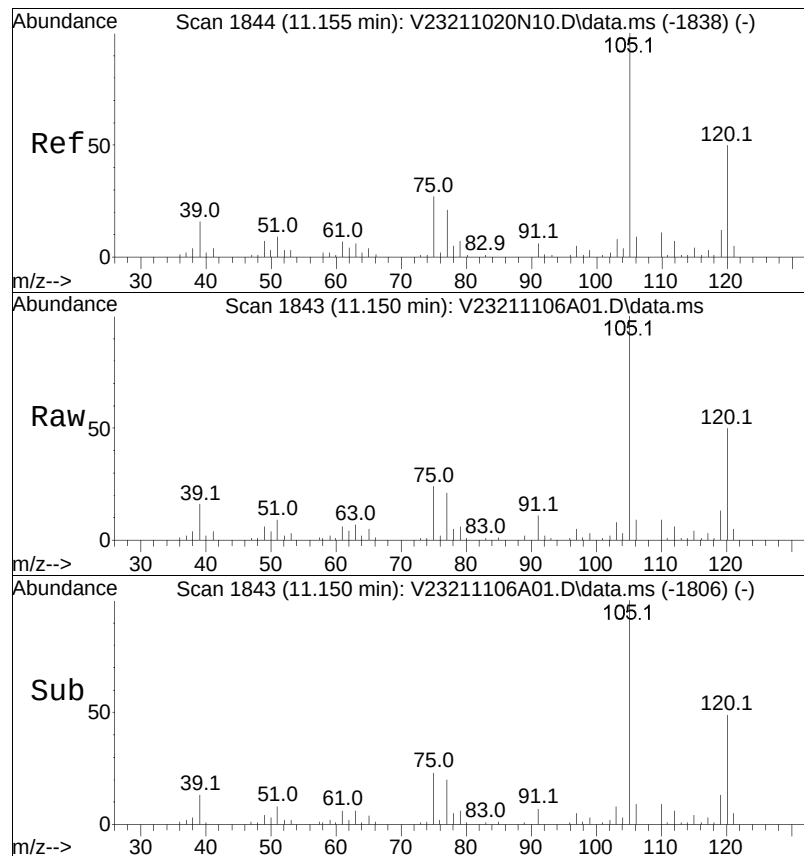




#90
 1,3,5-Trimethylbenzene
 Concen: 46.94 ug/L
 RT: 11.161 min Scan# 1845
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

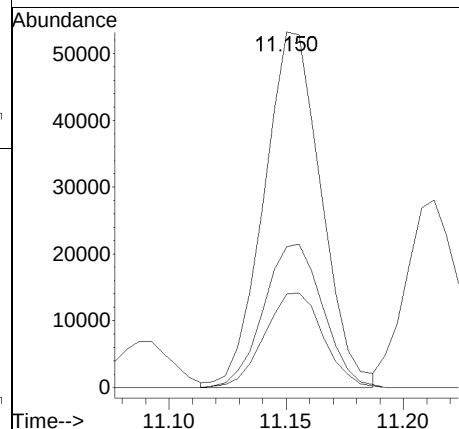
Tgt Ion	105	120	Ratio	Lower	Upper
Resp:	516221				
105	100				
120	50.4	39.9			59.9

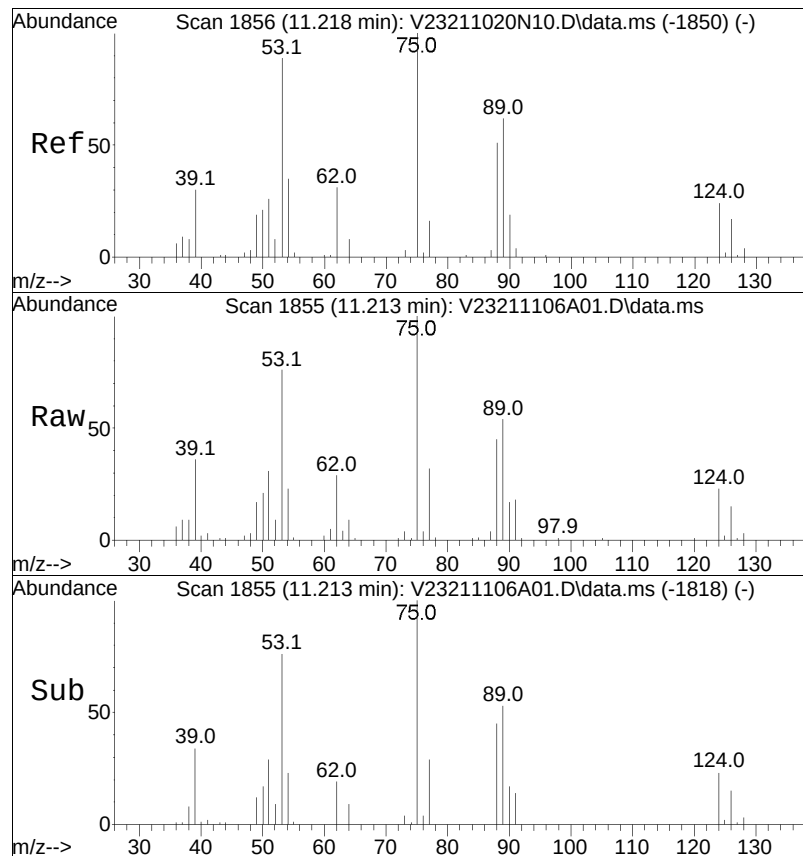




#91
 1,2,3-Trichloropropane
 Concen: 42.84 ug/L
 RT: 11.150 min Scan# 1843
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

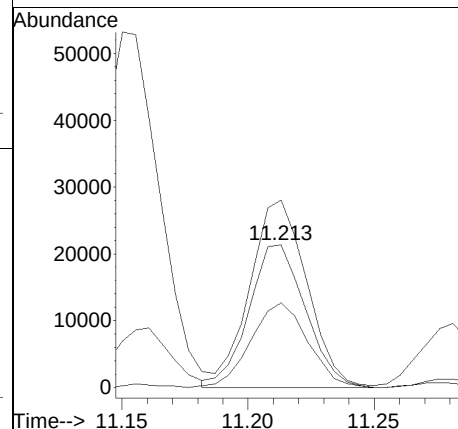
Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.5	24.6	51.0
112	27.0	15.7	32.5

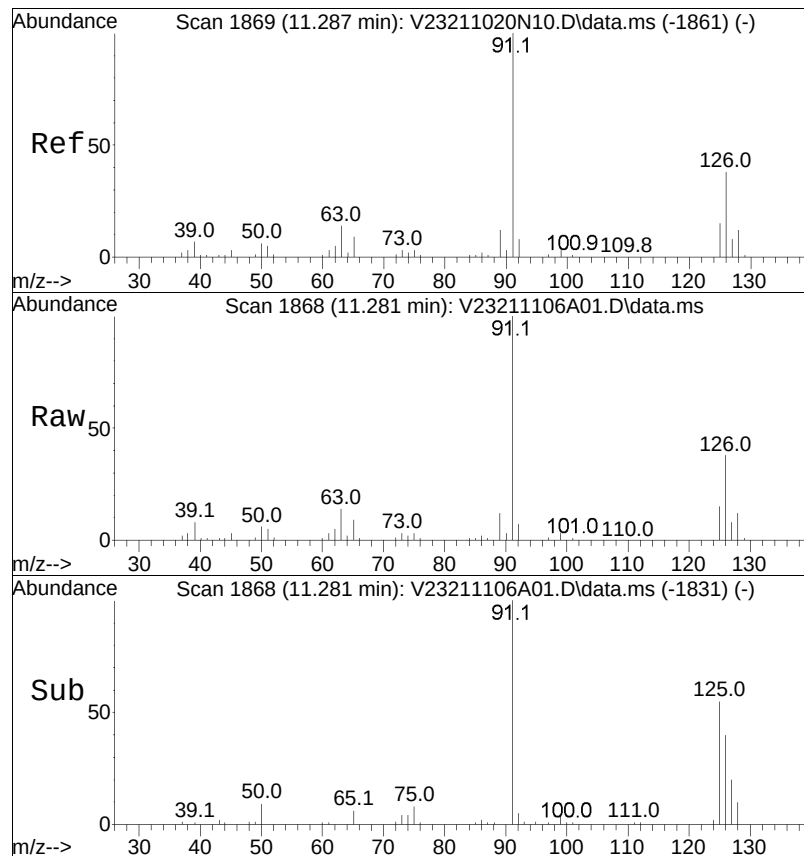




#92
 trans-1,4-Dichloro-2-butene
 Concen: 47.01 ug/L
 RT: 11.213 min Scan# 1855
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

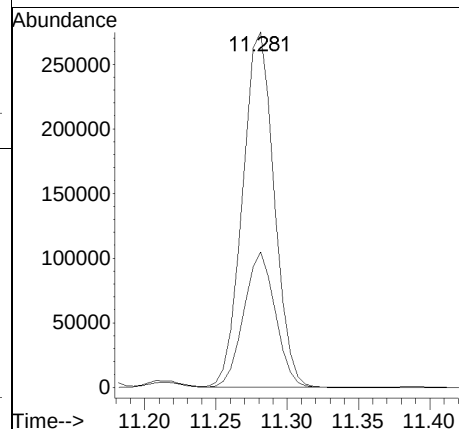
Tgt Ion	Ratio	Lower	Upper
53	100		
88	59.4	45.1	67.7
75	131.0	116.5	174.7

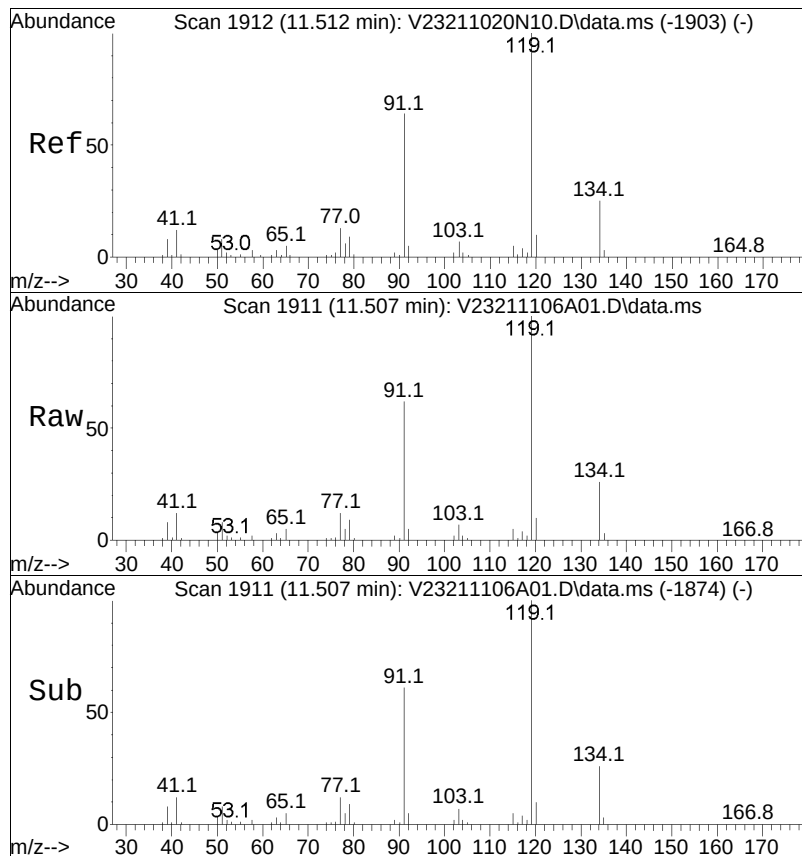




#93
 4-Chlorotoluene
 Concen: 46.08 ug/L
 RT: 11.281 min Scan# 1868
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

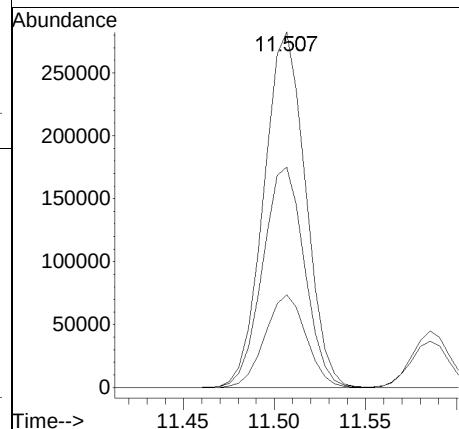
Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.0	26.9	40.3

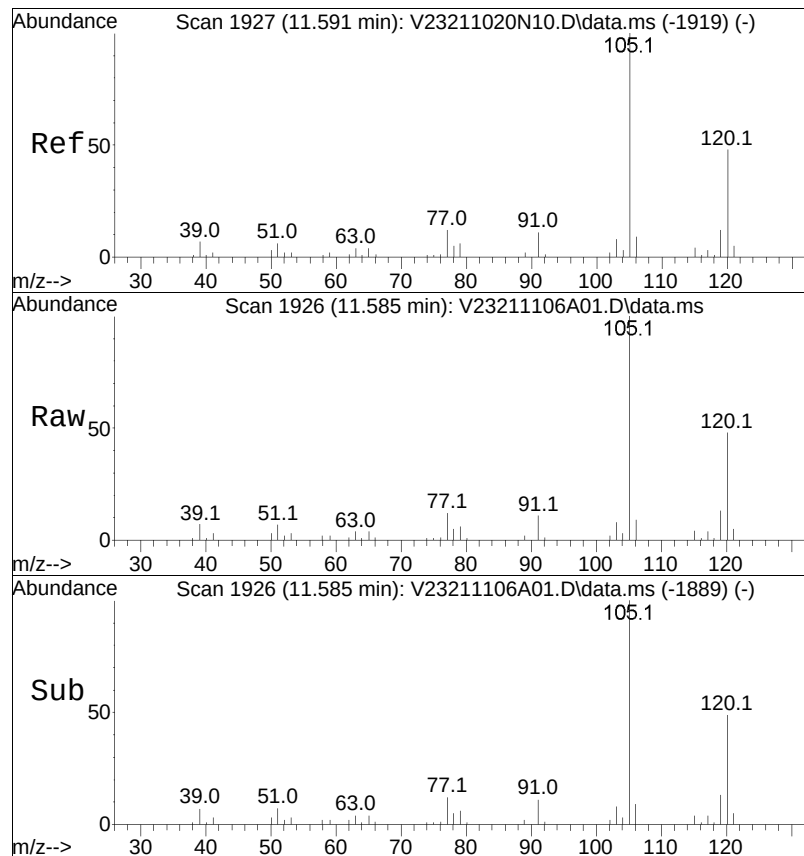




#94
 tert-Butylbenzene
 Concen: 46.86 ug/L
 RT: 11.507 min Scan# 1911
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

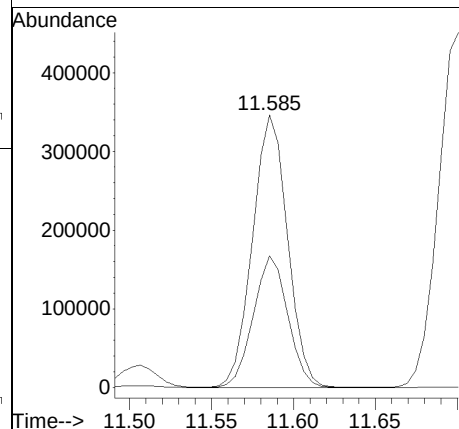
Tgt	Ion	Ratio	Resp	Lower	Upper
119	100		450161		
91	62.4	53.1		79.7	
134	25.7	20.4		30.6	

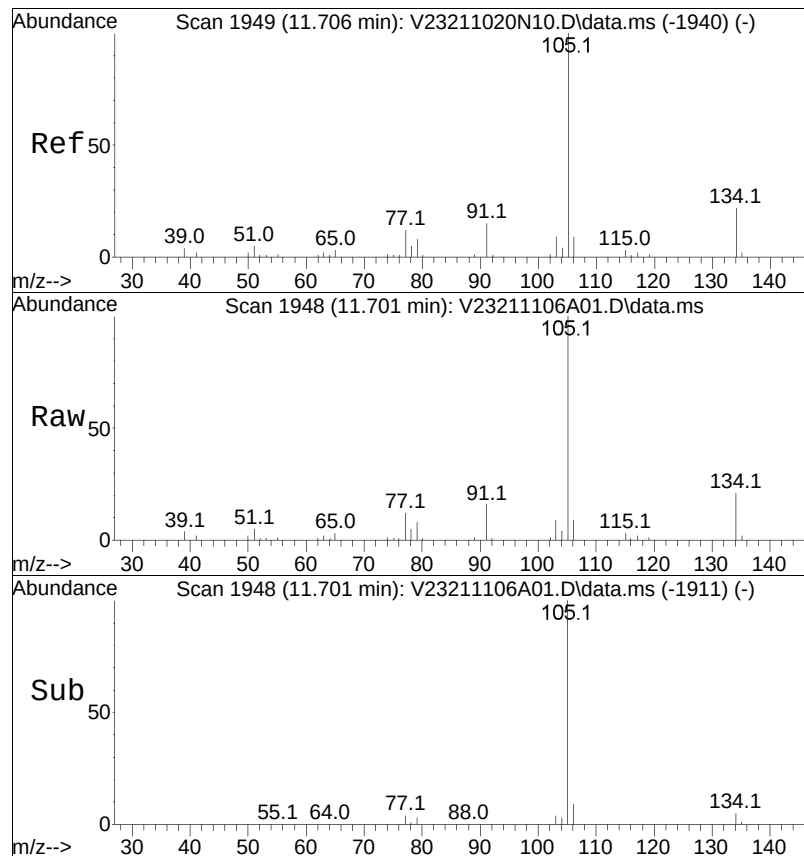




#97
 1,2,4-Trimethylbenzene
 Concen: 45.72 ug/L
 RT: 11.585 min Scan# 1926
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

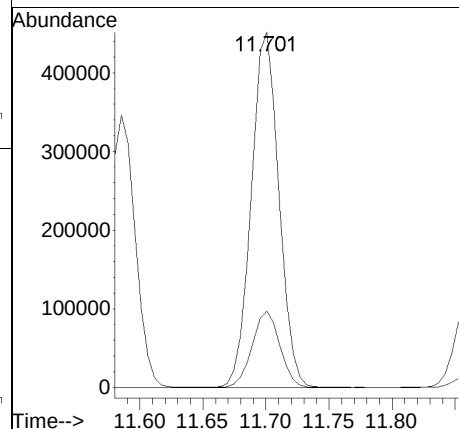
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	47.5		36.9	55.3	

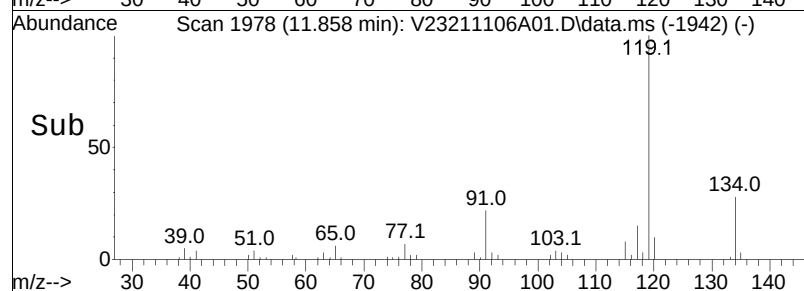
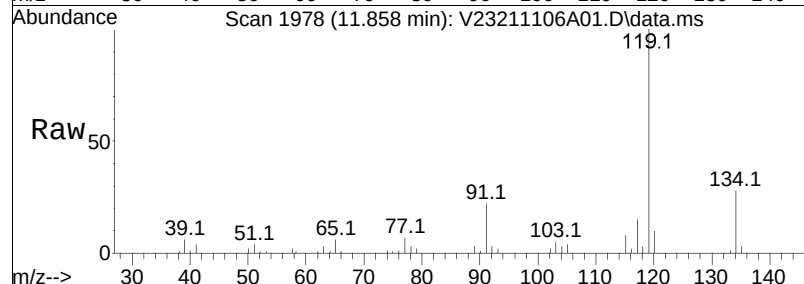
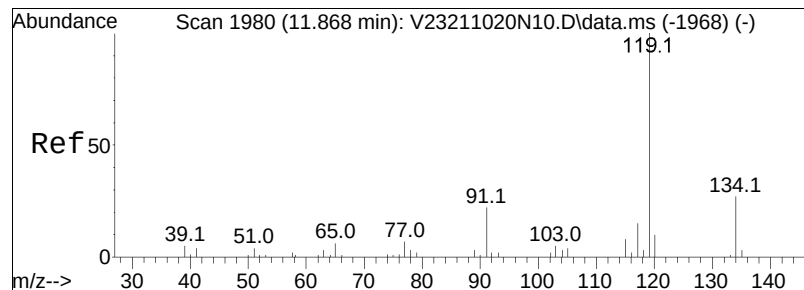




#98
 sec-Butylbenzene
 Concen: 48.04 ug/L
 RT: 11.701 min Scan# 1948
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

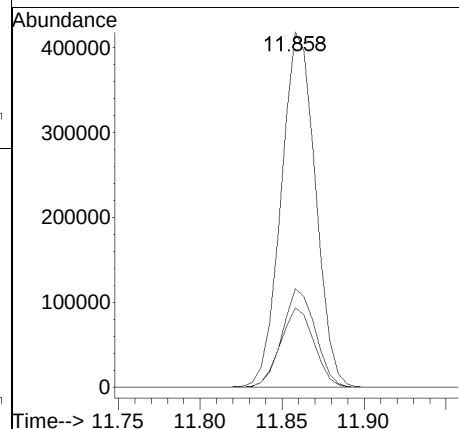
Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.4	13.1	27.1

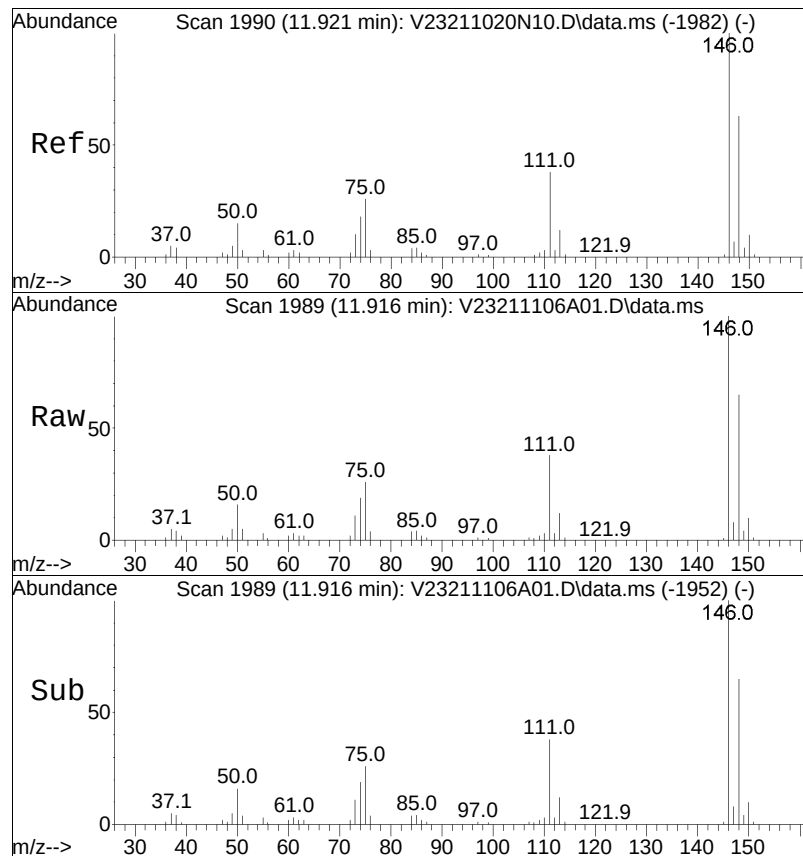




#99
 p-Isopropyltoluene
 Concen: 48.64 ug/L
 RT: 11.858 min Scan# 1978
 Delta R.T. -0.010 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

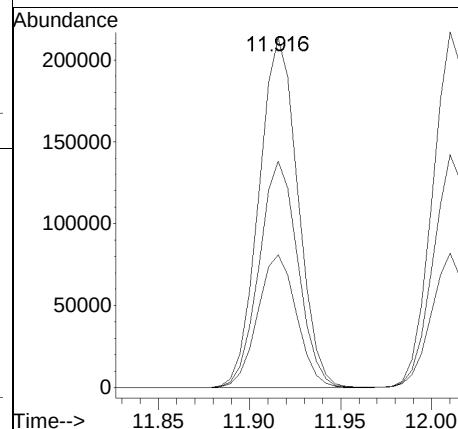
Tgt Ion:	119	Resp:	609147
Ion Ratio	Lower	Upper	
119	100		
134	27.0	17.2	35.6
91	22.1	15.1	31.3

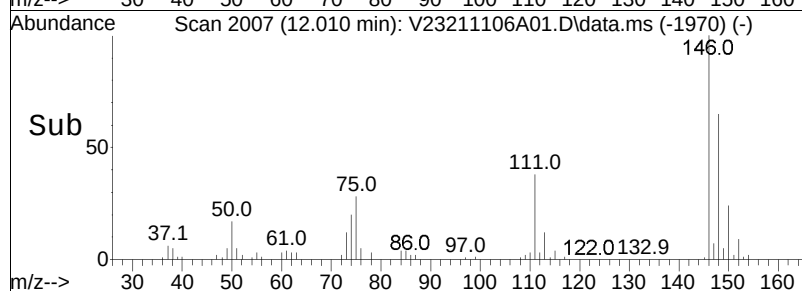
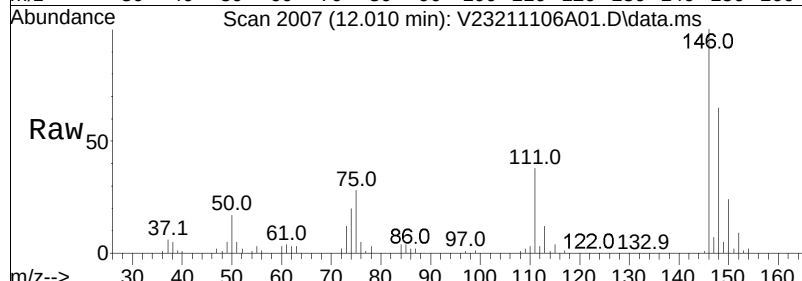
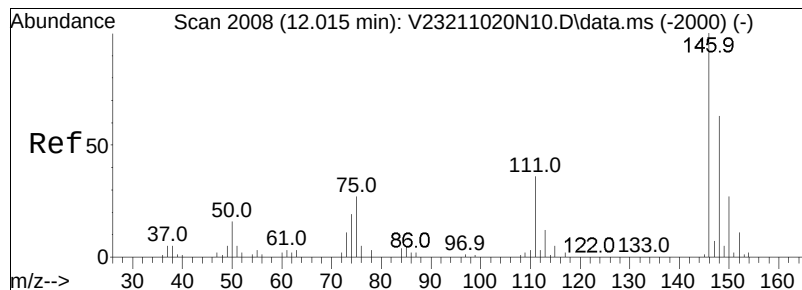




#100
 1,3-Dichlorobenzene
 Concen: 45.36 ug/L
 RT: 11.916 min Scan# 1989
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

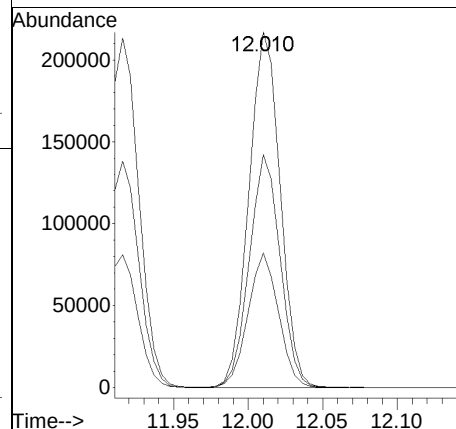
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	26.0	54.0
148	64.2	41.4	86.0

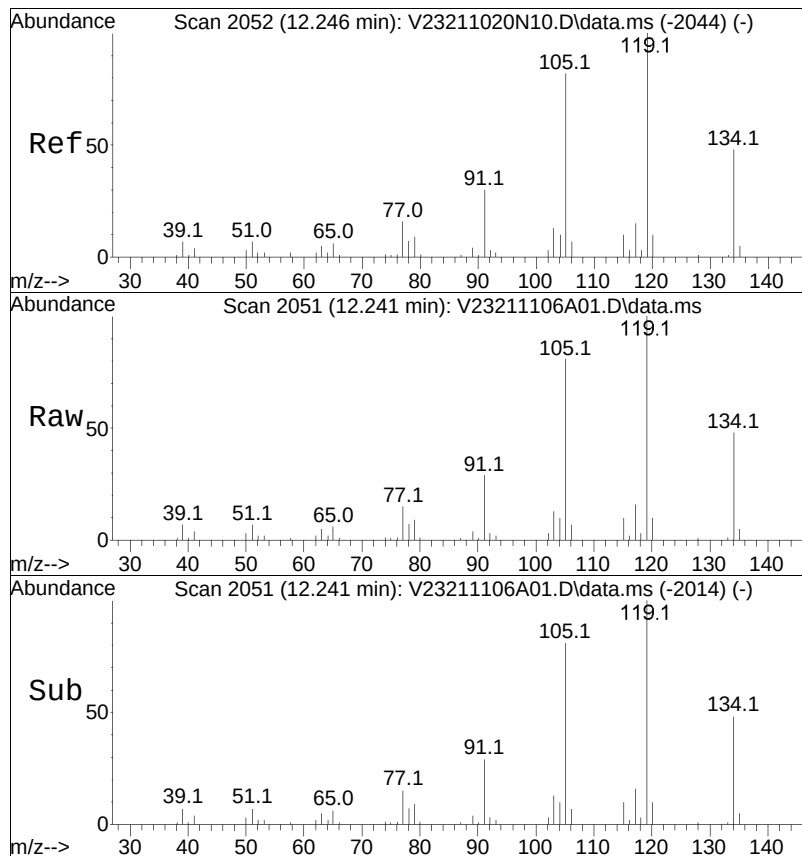




#101
 1,4-Dichlorobenzene
 Concen: 44.50 ug/L
 RT: 12.010 min Scan# 2007
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

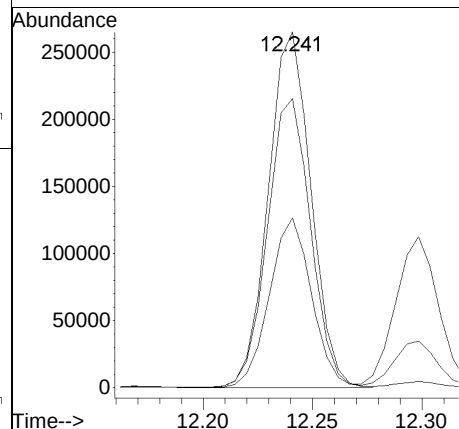
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	31.1	46.7
148	64.6	50.8	76.2

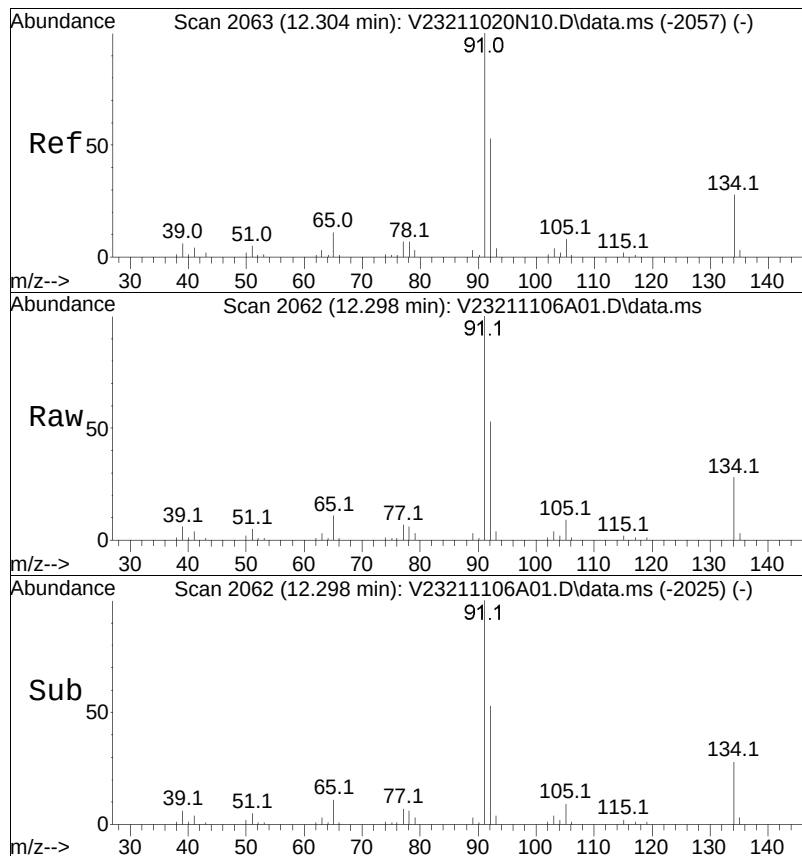




#102
 p-Diethylbenzene
 Concen: 47.99 ug/L
 RT: 12.241 min Scan# 2051
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

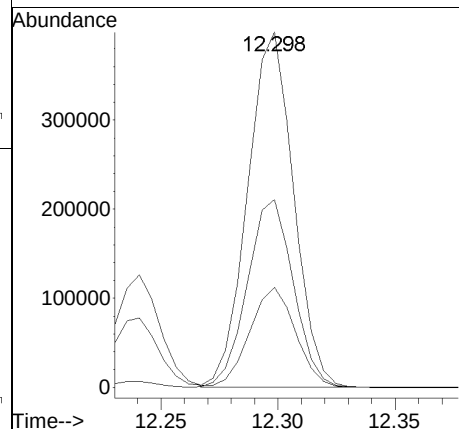
Tgt Ion	Ratio	Lower	Upper
119	100		
105	82.3	55.1	114.5
134	47.1	30.0	62.2

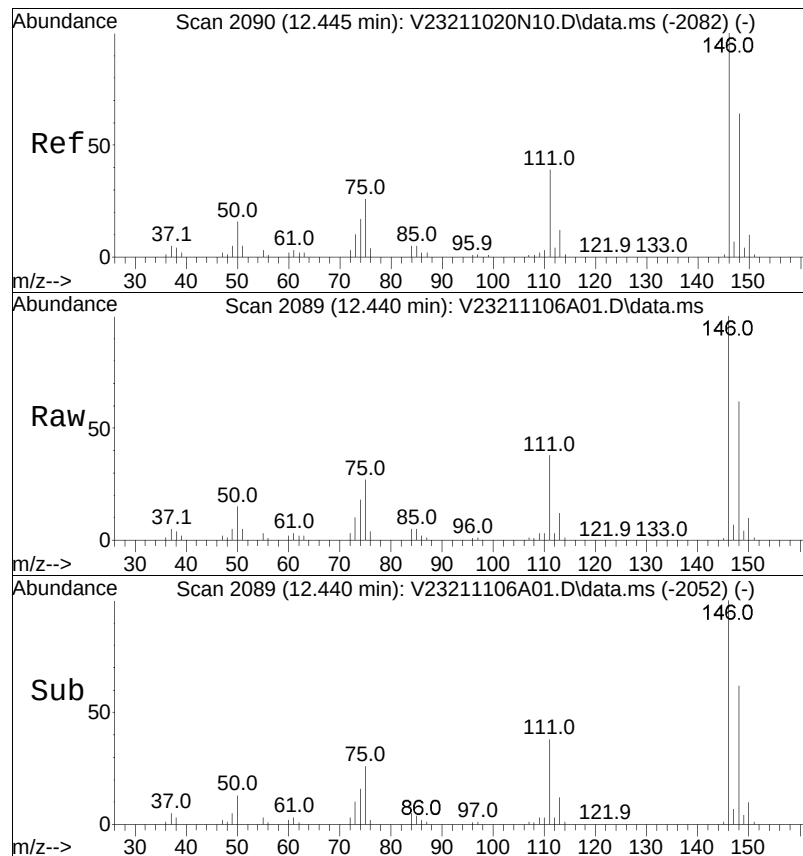




#103
 n-Butylbenzene
 Concen: 48.88 ug/L
 RT: 12.298 min Scan# 2062
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

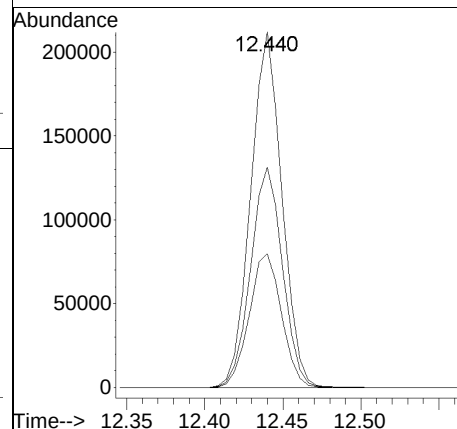
Tgt	Ion: 91	Resp: 543454
Ion	Ratio	Lower Upper
91	100	
92	53.1	44.2 66.4
134	28.2	21.2 31.8

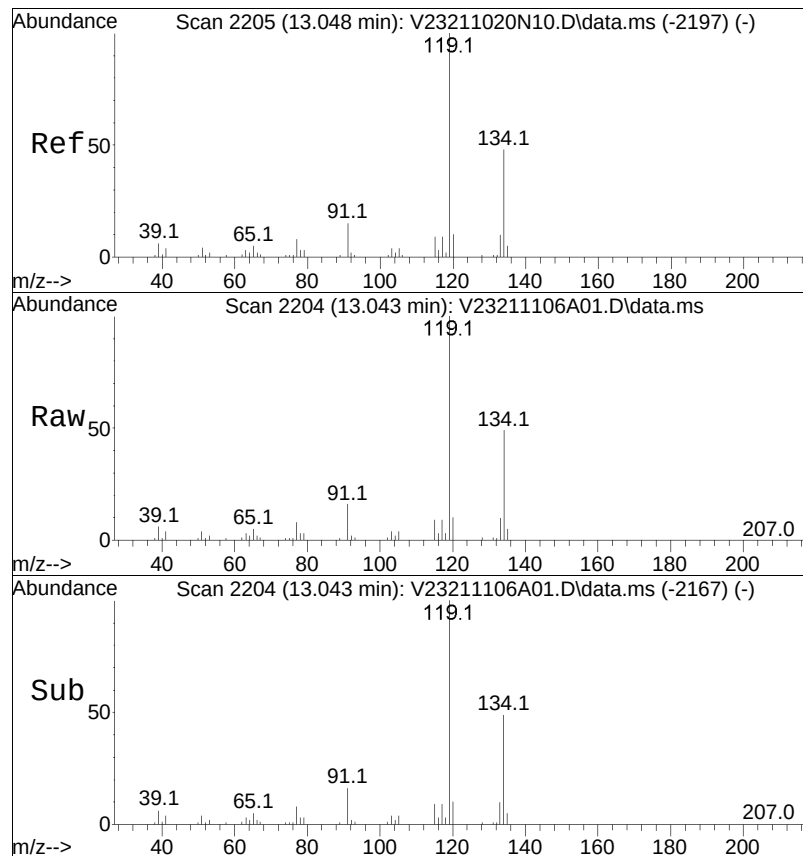




#104
 1,2-Dichlorobenzene
 Concen: 44.56 ug/L
 RT: 12.440 min Scan# 2089
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

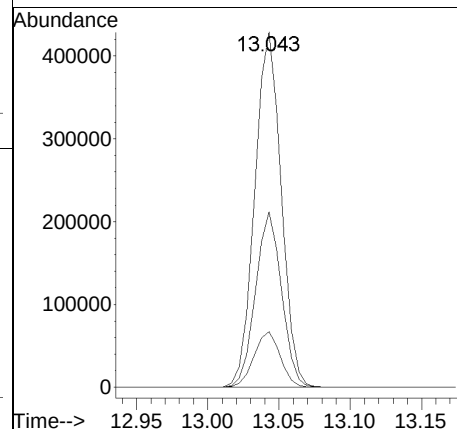
Tgt	Ion:146	Resp:	294433
Ion	Ratio	Lower	Upper
146	100		
111	38.9	26.8	55.8
148	63.1	41.3	85.7

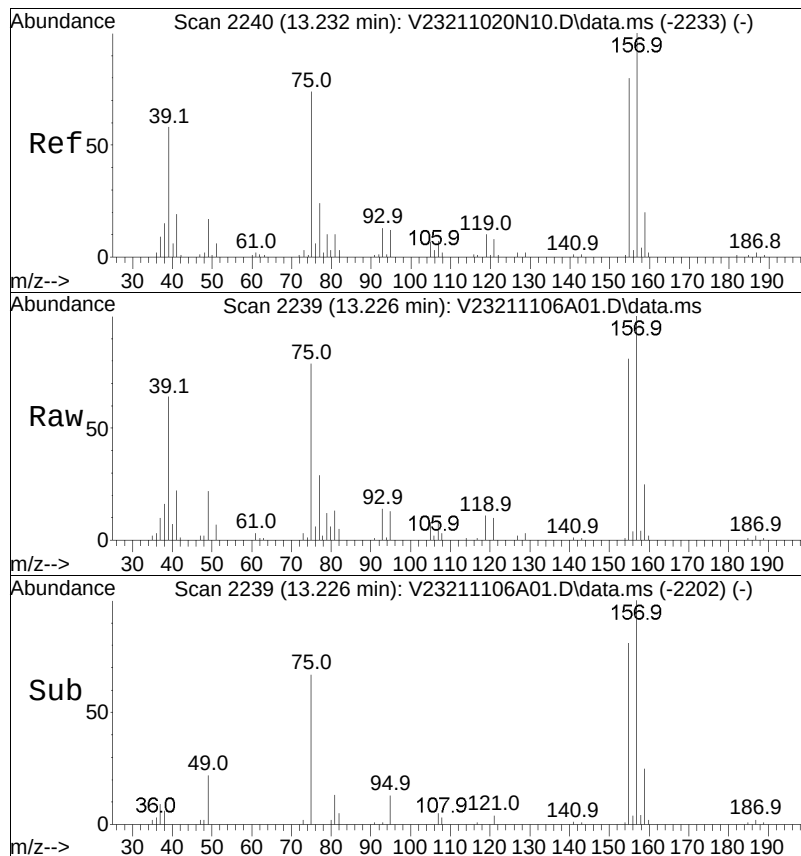




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 47.12 ug/L
 RT: 13.043 min Scan# 2204
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

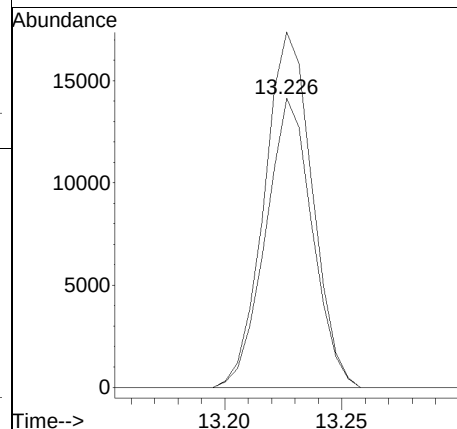
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	553496		
134	48.6		31.3	64.9
91	15.6		10.3	21.3

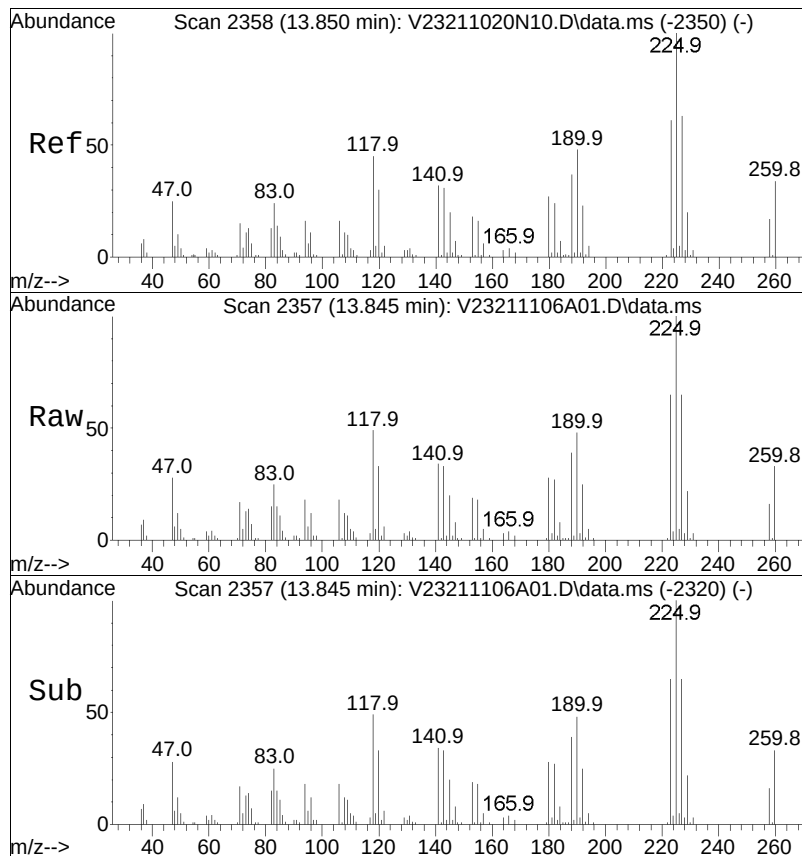




#106
 1,2-Dibromo-3-chloropropane
 Concen: 43.99 ug/L
 RT: 13.226 min Scan# 2239
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

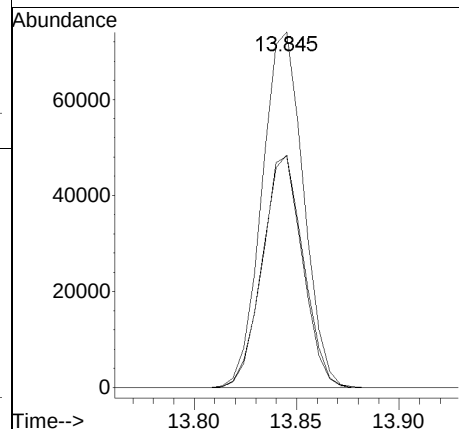
Tgt Ion	Ratio	Lower	Upper
155	100		
157	126.2	101.5	152.3

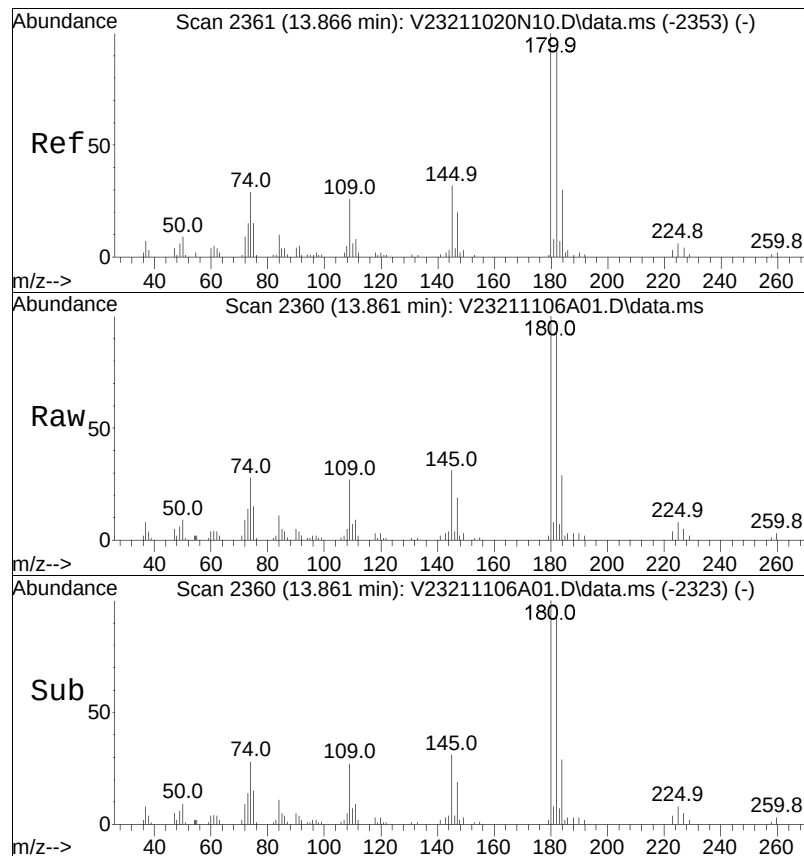




#108
 Hexachlorobutadiene
 Concen: 43.89 ug/L
 RT: 13.845 min Scan# 2357
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

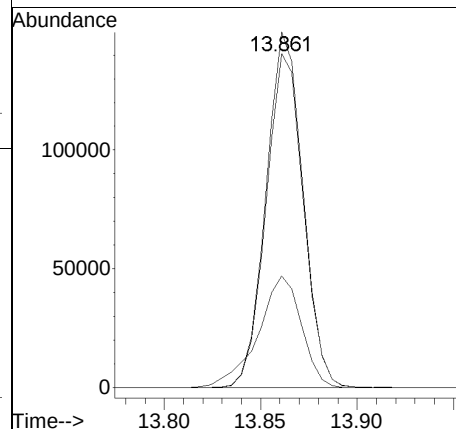
Tgt	Ion:225	Resp:	104385
Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.9	74.9
227	64.2	50.7	76.1

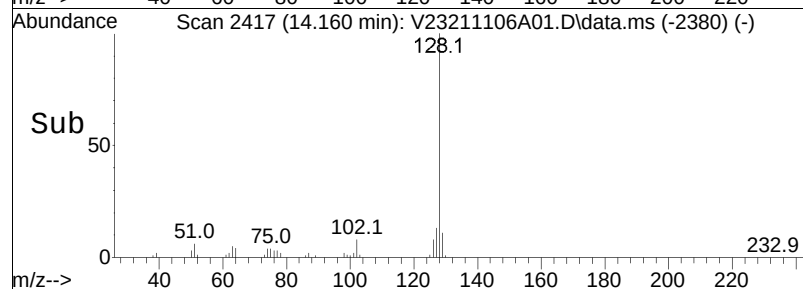
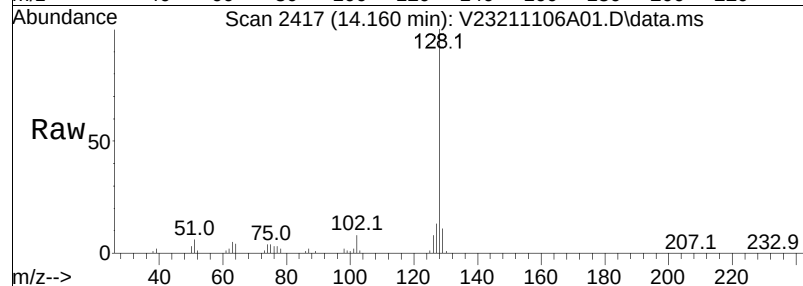
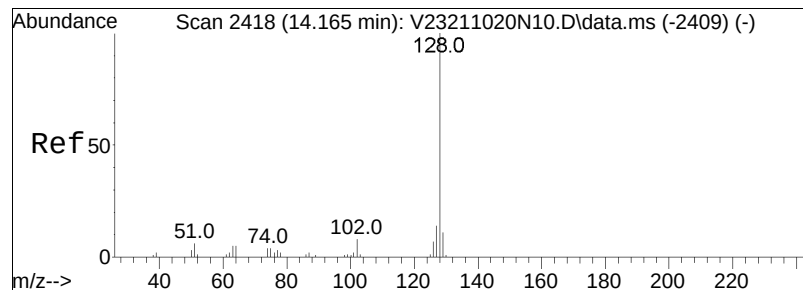




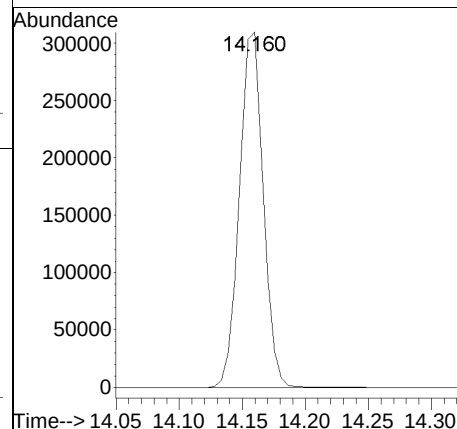
#109
 1,2,4-Trichlorobenzene
 Concen: 44.09 ug/L
 RT: 13.861 min Scan# 2360
 Delta R.T. -0.005 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

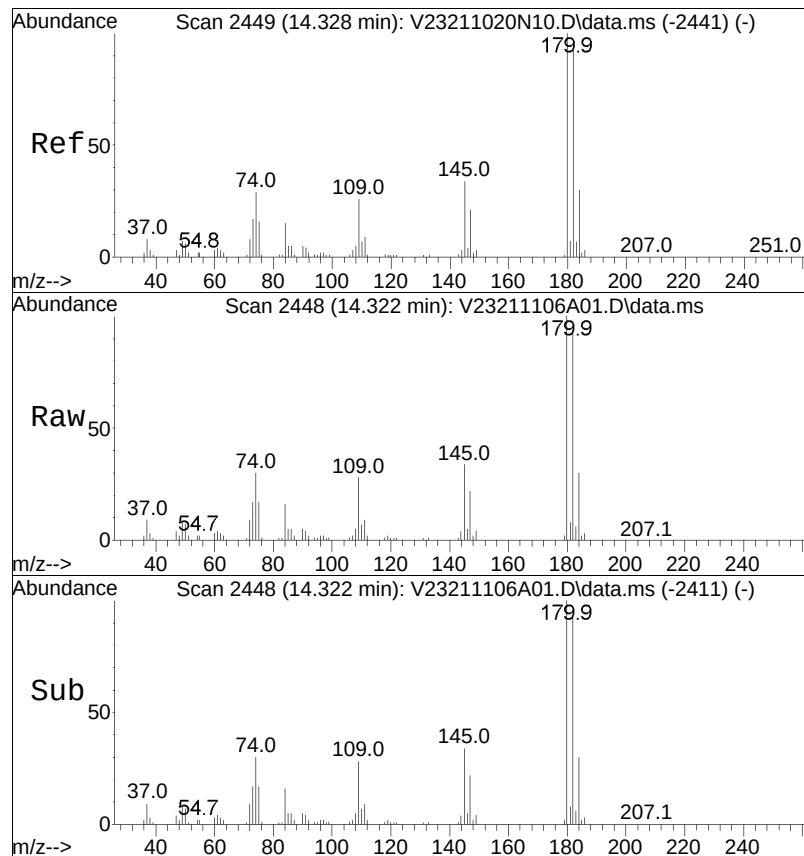
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.2	114.4
145	36.7	27.4	41.2





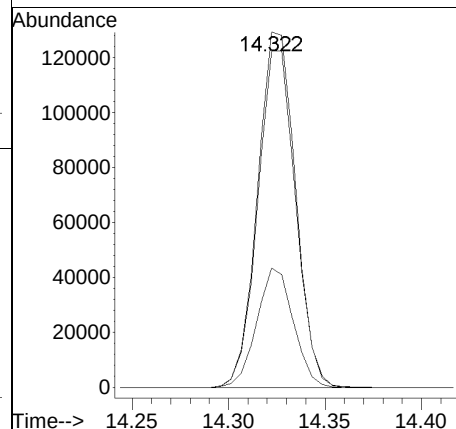
#110
Naphthalene
Concen: 43.56 ug/L
RT: 14.160 min Scan# 2417
Delta R.T. -0.005 min
Lab File: V23211106A01.D
Acq: 06 Nov 2021 06:05 am
Tgt Ion:128 Resp: 407677





#111
 1,2,3-Trichlorobenzene
 Concen: 42.57 ug/L
 RT: 14.322 min Scan# 2448
 Delta R.T. -0.006 min
 Lab File: V23211106A01.D
 Acq: 06 Nov 2021 06:05 am

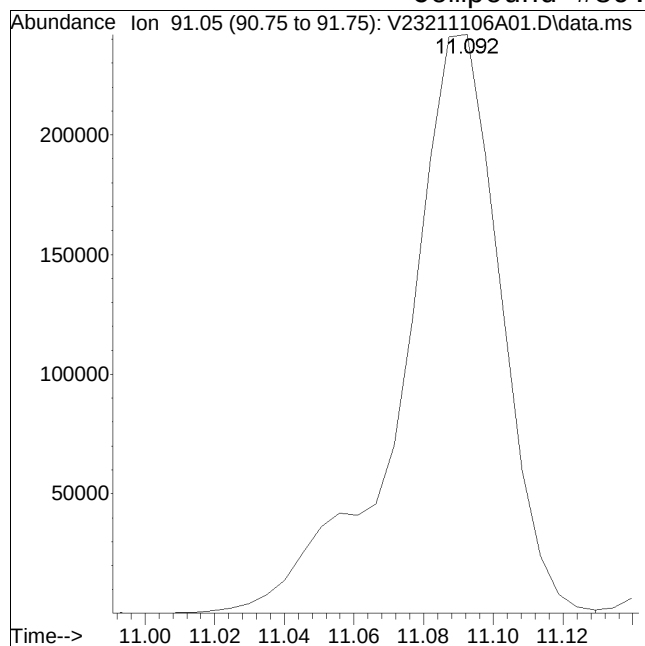
Tgt	Ion:180	Resp:	176662
Ion	Ratio	Lower	Upper
180	100		
182	94.5	75.4	113.0
145	32.4	25.2	37.8



Manual Integration Report

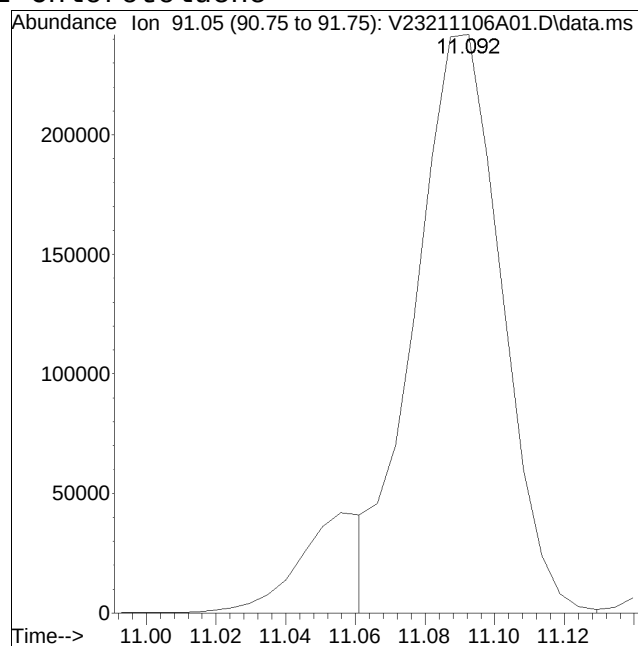
Data Path : I:\VOLATILES\VOA123\2021\20Method : V123_211020N_8260.m
Data File : V23211106A01.D Operator : VOA123:MV
Date Inj'd : 11/6/2021 6:05 am Instrument : VOA 123
Sample : WG1568305-3,31,5,5 Quant Date : 11/6/2021 6:35 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 470199

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 416715 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N03.D
 Acq On : 02 Nov 2021 04:59 pm
 Operator : VOA127:KJD
 Sample : WG1566511-4,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 19:15:40 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.935	96	112836	20.000	ug/L	0.00
Standard Area 1 = 114333			Recovery =	98.69%		
59) Chlorobenzene-d5	8.761	117	88743	20.000	ug/L	0.00
Standard Area 1 = 91419			Recovery =	97.07%		
79) 1,4-Dichlorobenzene-d4	10.208	152	48303	20.000	ug/L	0.00
Standard Area 1 = 48274			Recovery =	100.06%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.012	113	31119	18.127	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	90.64%		
43) 1,2-Dichloroethane-d4	5.615	65	41289	21.707	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.54%		
60) Toluene-d8	7.561	98	111979	19.300	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.50%		
83) 4-Bromofluorobenzene	9.553	95	44744	19.564	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.82%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	70299	37.372	ug/L	100
3) Chloromethane	1.211	50	148334	38.711	ug/L	98
4) Vinyl chloride	1.269	62	81367	37.969	ug/L	98
5) Bromomethane	1.510	94	33532	34.267	ug/L	96
6) Chloroethane	1.610	64	41770	28.004	ug/L	99
7) Trichlorofluoromethane	1.715	101	95219	39.963	ug/L	95
8) Ethyl ether	1.987	74	28140	29.255	ug/L	90
10) 1,1-Dichloroethene	2.139	96	46232	29.689	ug/L	98
11) Carbon disulfide	2.144	76	133989	28.968	ug/L	96
15) Methylene chloride	2.711	84	56897	33.173	ug/L	96
17) Acetone	2.789	43	20031	24.453	ug/L	99
18) trans-1,2-Dichloroethene	2.873	96	50837	29.226	ug/L	97
20) Methyl tert-butyl ether	3.031	73	146357	36.701	ug/L	93
23) 1,1-Dichloroethane	3.623	63	132964	36.755	ug/L	97
25) Acrylonitrile	3.728	53	31803	41.291	ug/L	95
27) Vinyl acetate	4.058	43	163968	42.422	ug/L	100
28) cis-1,2-Dichloroethene	4.388	96	65142	32.125	ug/L	93
29) 2,2-Dichloropropane	4.520	77	95435	35.674	ug/L	96
30) Bromochloromethane	4.651	128	31270	31.705	ug/L	88
32) Chloroform	4.792	83	111747	34.240	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N03.D
 Acq On : 02 Nov 2021 04:59 pm
 Operator : VOA127:KJD
 Sample : WG1566511-4,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 19:15:40 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.887	117	87285	41.624	ug/L	99
37) 1,1,1-Trichloroethane	4.986	97	98554	38.852	ug/L #	93
39) 2-Butanone	5.201	43	35592	30.504	ug/L #	88
40) 1,1-Dichloropropene	5.144	75	72009	35.909	ug/L	95
41) Benzene	5.437	78	208194	34.792	ug/L	96
44) 1,2-Dichloroethane	5.694	62	104645	44.216	ug/L	99
48) Trichloroethene	6.113	95	58436	37.962	ug/L	95
50) Dibromomethane	6.554	93	36988	34.798	ug/L	94
51) 1,2-Dichloropropane	6.664	63	72128	42.495	ug/L #	94
54) Bromodichloromethane	6.764	83	82846	35.334	ug/L	99
57) 1,4-Dioxane	6.989	88	30295	1488.614	ug/L	88
58) cis-1,3-Dichloropropene	7.398	75	87712	38.509	ug/L	99
61) Toluene	7.608	92	141204	35.655	ug/L	94
62) 4-Methyl-2-pentanone	7.970	58	28108	43.535	ug/L	95
63) Tetrachloroethene	7.922	166	60410	40.017	ug/L	92
65) trans-1,3-Dichloropropene	7.991	75	82185	40.095	ug/L	98
68) 1,1,2-Trichloroethane	8.111	83	37906	36.699	ug/L	91
69) Chlorodibromomethane	8.237	129	57791	40.457	ug/L	96
70) 1,3-Dichloropropane	8.310	76	81596	39.201	ug/L	99
71) 1,2-Dibromoethane	8.389	107	48878	41.793	ug/L	100
72) 2-Hexanone	8.604	43	45557	32.548	ug/L	89
73) Chlorobenzene	8.772	112	157503	36.490	ug/L	95
74) Ethylbenzene	8.803	91	272802	36.004	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.829	131	54294	40.951	ug/L	95
76) p/m Xylene	8.903	106	214315	68.691	ug/L	99
77) o Xylene	9.181	106	206887	68.816	ug/L	95
78) Styrene	9.217	104	346283	67.329	ug/L	98
80) Bromoform	9.233	173	36045	40.564	ug/L	95
82) Isopropylbenzene	9.380	105	274697	37.211	ug/L	98
84) Bromobenzene	9.611	156	69878	38.728	ug/L	99
85) n-Propylbenzene	9.632	91	325527	36.430	ug/L	97
87) 1,1,2,2-Tetrachloroethane	9.689	83	51394	32.583	ug/L	99
88) 4-Ethyltoluene	9.700	105	279504	36.567	ug/L	98
89) 2-Chlorotoluene	9.721	91	199976M6	36.236	ug/L	
90) 1,3,5-Trimethylbenzene	9.752	105	250030	37.117	ug/L	95
91) 1,2,3-Trichloropropane	9.763	75	49424	38.467	ug/L	98
92) trans-1,4-Dichloro-2-b...	9.789	53	26516	43.801	ug/L	90
93) 4-Chlorotoluene	9.820	91	210672	36.698	ug/L	97
94) tert-Butylbenzene	9.936	119	205851	37.271	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
 Data File : V27211102N03.D
 Acq On : 02 Nov 2021 04:59 pm
 Operator : VOA127:KJD
 Sample : WG1566511-4,31,5,5
 Misc : WG1566511,ICAL18360
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 19:15:40 2021
 Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:48:31 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA127\2021\211102N\V27211102N02.D
 Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.978	105	252137	37.383	ug/L	97
98)	sec-Butylbenzene	10.041	105	303769	36.734	ug/L	99
99)	p-Isopropyltoluene	10.124	119	272321	37.484	ug/L	98
100)	1,3-Dichlorobenzene	10.166	146	133828	36.729	ug/L	99
101)	1,4-Dichlorobenzene	10.219	146	136228	36.920	ug/L	99
102)	p-Diethylbenzene	10.329	119	156954	36.059	ug/L	97
103)	n-Butylbenzene	10.366	91	237614	37.508	ug/L	98
104)	1,2-Dichlorobenzene	10.460	146	128468	36.760	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.785	119	238359	36.515	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.911	155	11046	36.285	ug/L	96
108)	Hexachlorobutadiene	11.262	225	49167	39.029	ug/L	96
109)	1,2,4-Trichlorobenzene	11.283	180	97276	38.004	ug/L	98
110)	Naphthalene	11.467	128	230554	36.312	ug/L	100
111)	1,2,3-Trichlorobenzene	11.566	180	92095	37.917	ug/L	98

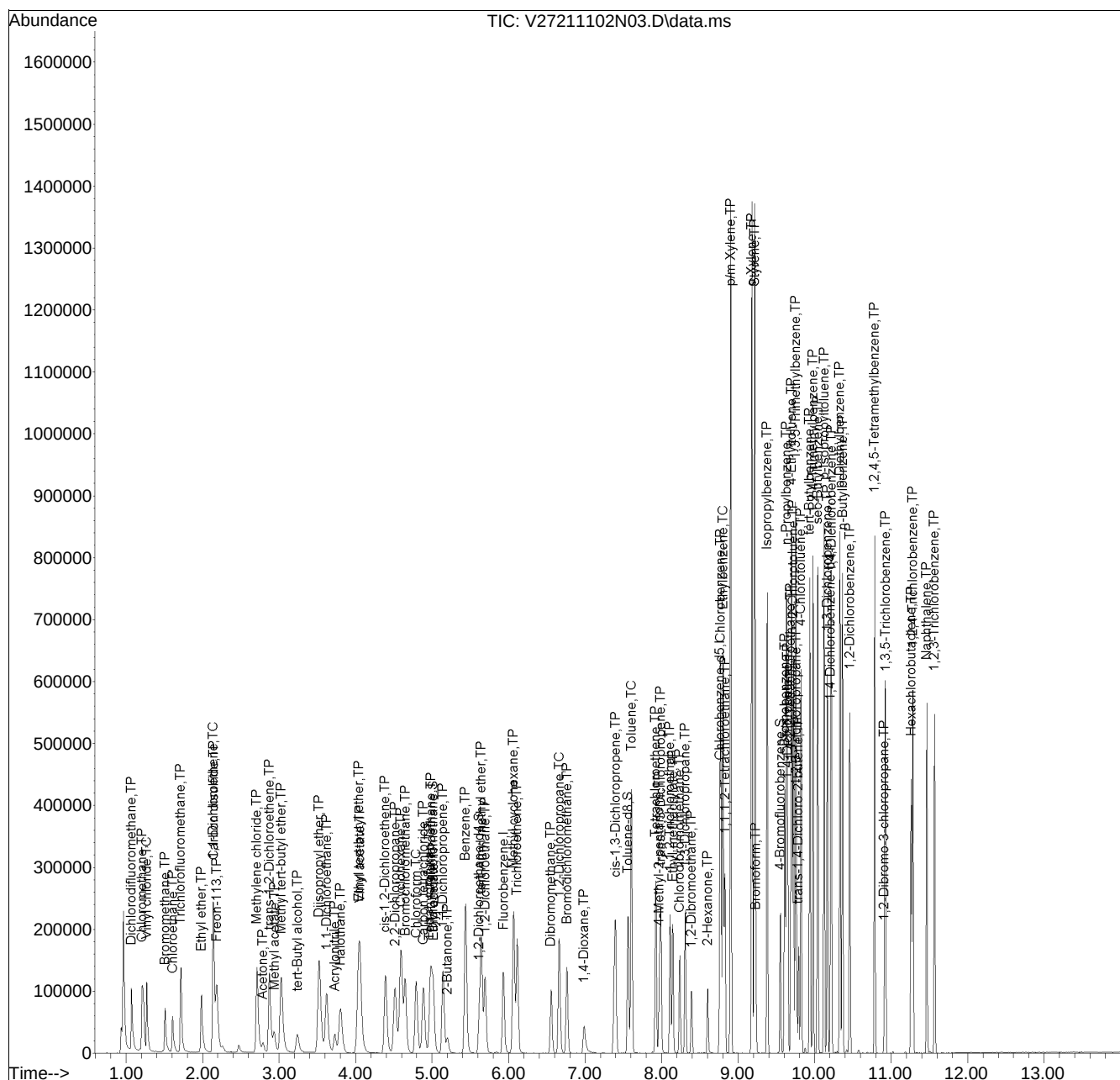
(#) = qualifier out of range (m) = manual integration (+) = signals summed

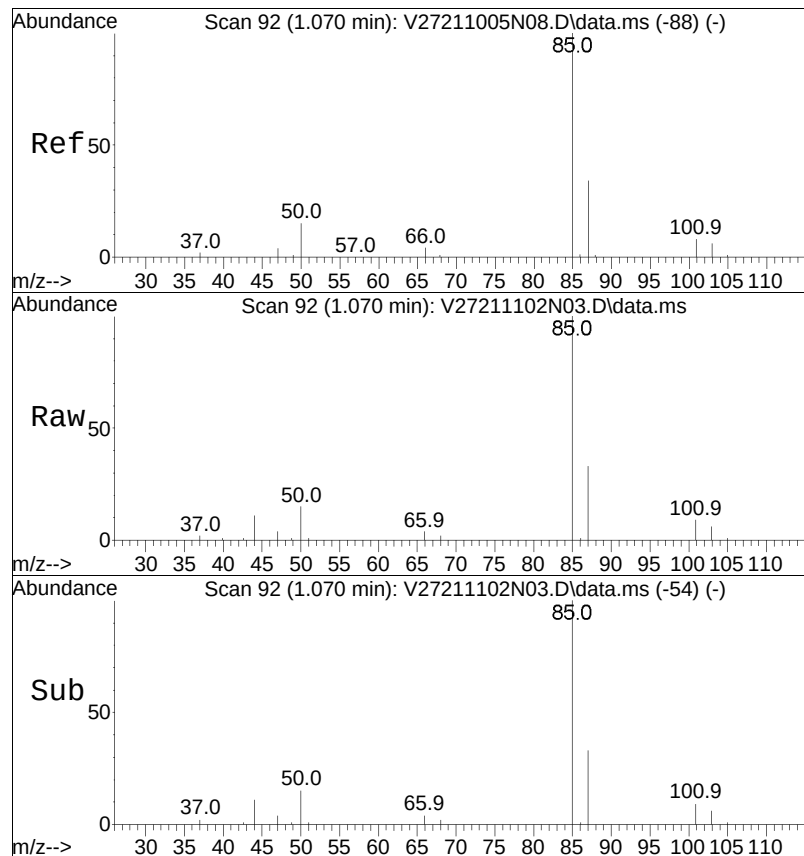
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA127\2021\211102N\
Data File : V27211102N03.D
Acq On : 02 Nov 2021 04:59 pm
Operator : VOA127:KJD
Sample : WG1566511-4, 31, 5, 5
Misc : WG1566511, ICAL18360
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 19:15:40 2021
Quant Method : I:\VOLATILES\VOA127\2021\211102N\V127_211005N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:48:31 2021
Response via : Initial Calibration

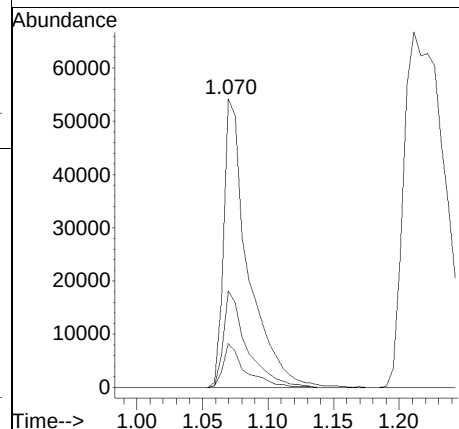
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve2.D•

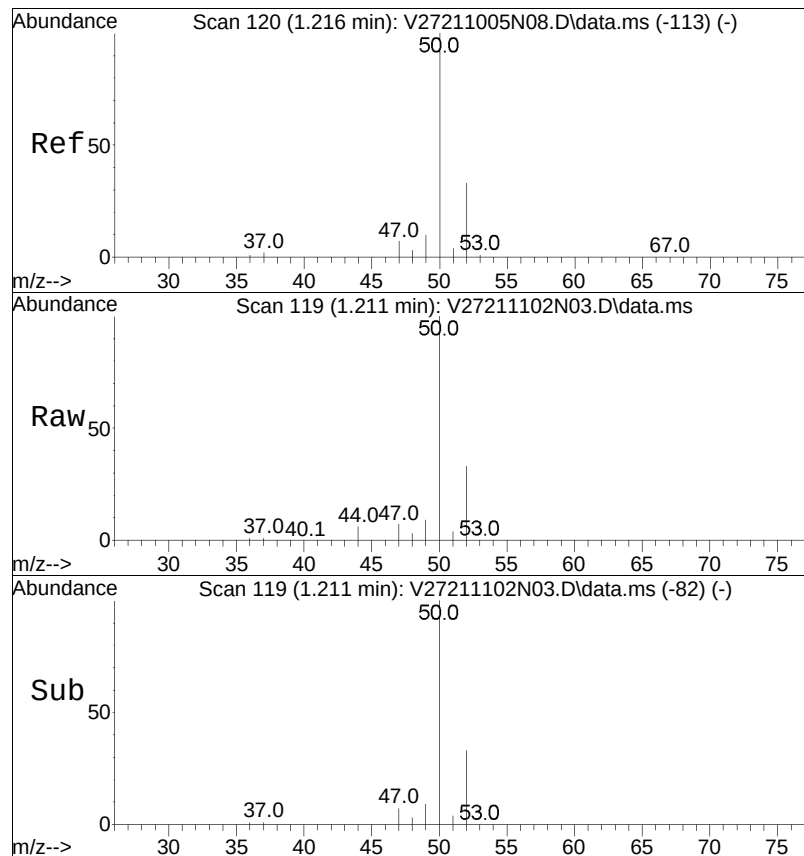




#2
 Dichlorodifluoromethane
 Concen: 37.37 ug/L
 RT: 1.070 min Scan# 92
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

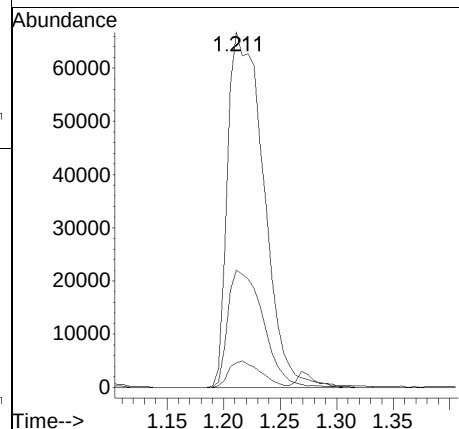
Tgt Ion:	85	Resp:	70299
Ion Ratio	Lower	Upper	
85	100		
87	32.1	21.0	43.6
50	13.8	8.9	18.5

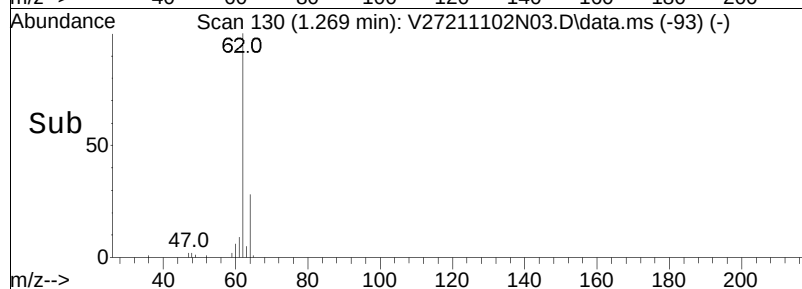
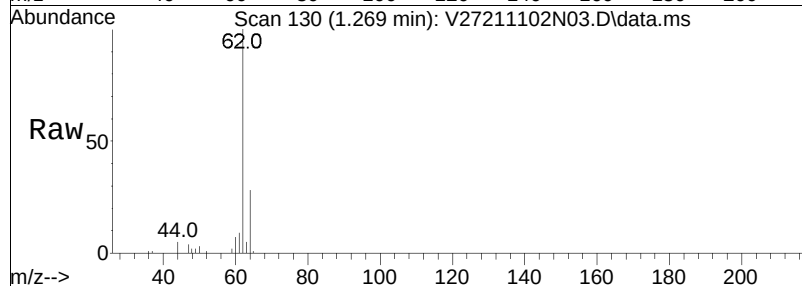
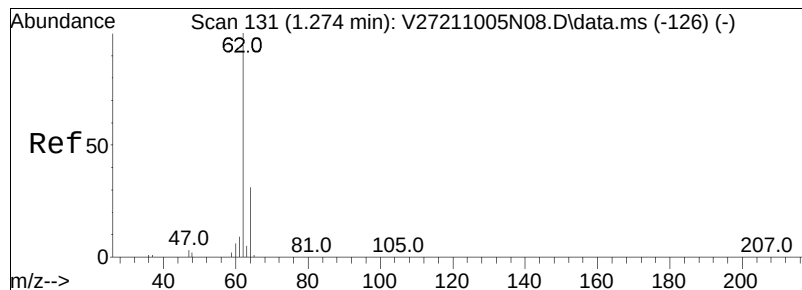




#3
 Chloromethane
 Concen: 38.71 ug/L
 RT: 1.211 min Scan# 119
 Delta R.T. -0.005 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt	Ion: 50	Resp:	148334
Ion	Ratio	Lower	Upper
50	100		
52	32.3	12.9	52.9
47	6.7	0.0	28.3





#4

Vinyl chloride

Concen: 37.97 ug/L

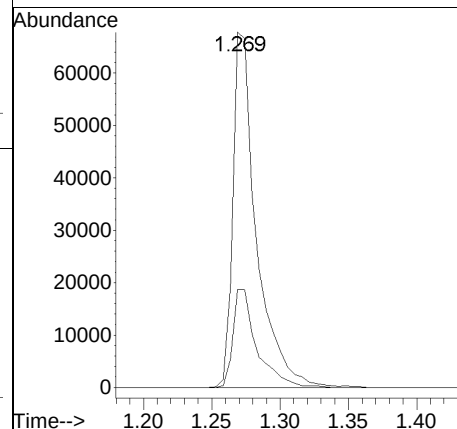
RT: 1.269 min Scan# 130

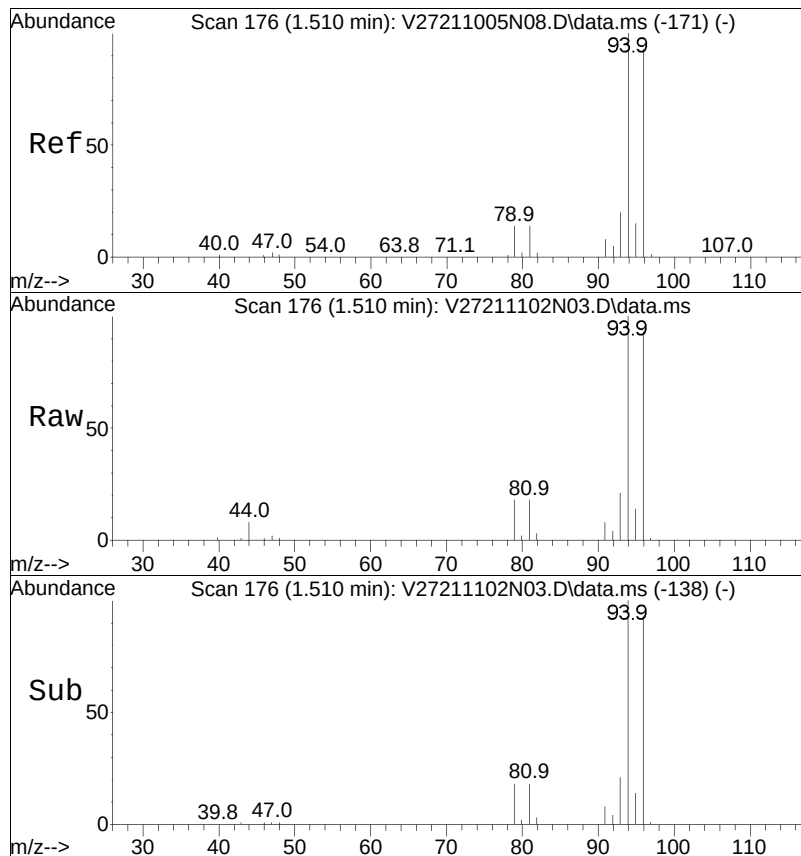
Delta R.T. -0.005 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

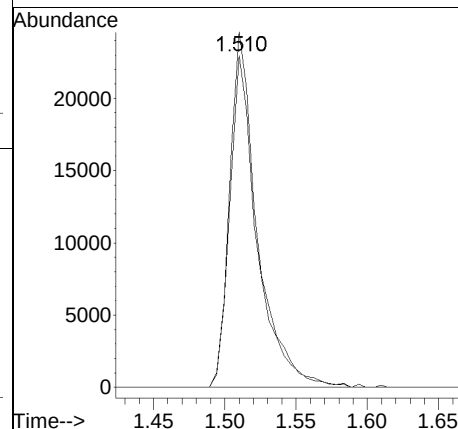
Tgt Ion	Ratio	Lower	Upper
62	100		
64	28.0	9.1	49.1

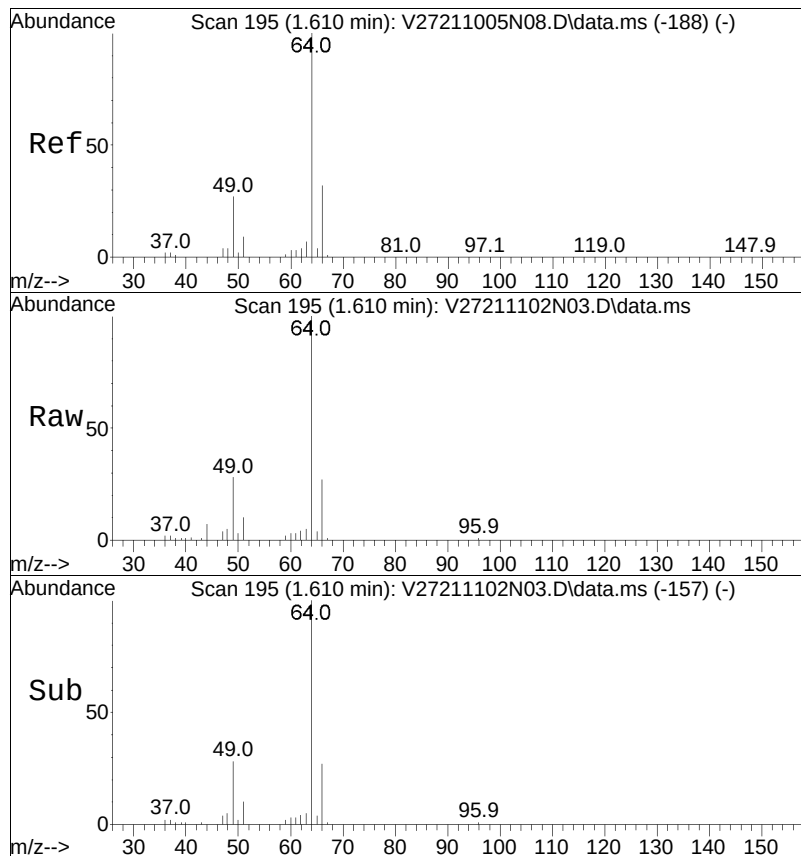




#5
 Bromomethane
 Concen: 34.27 ug/L
 RT: 1.510 min Scan# 176
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

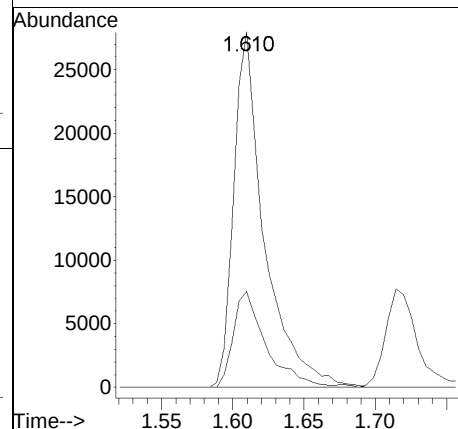
Tgt Ion	Ratio	Lower	Upper
94	100		
96	91.8	75.6	115.6

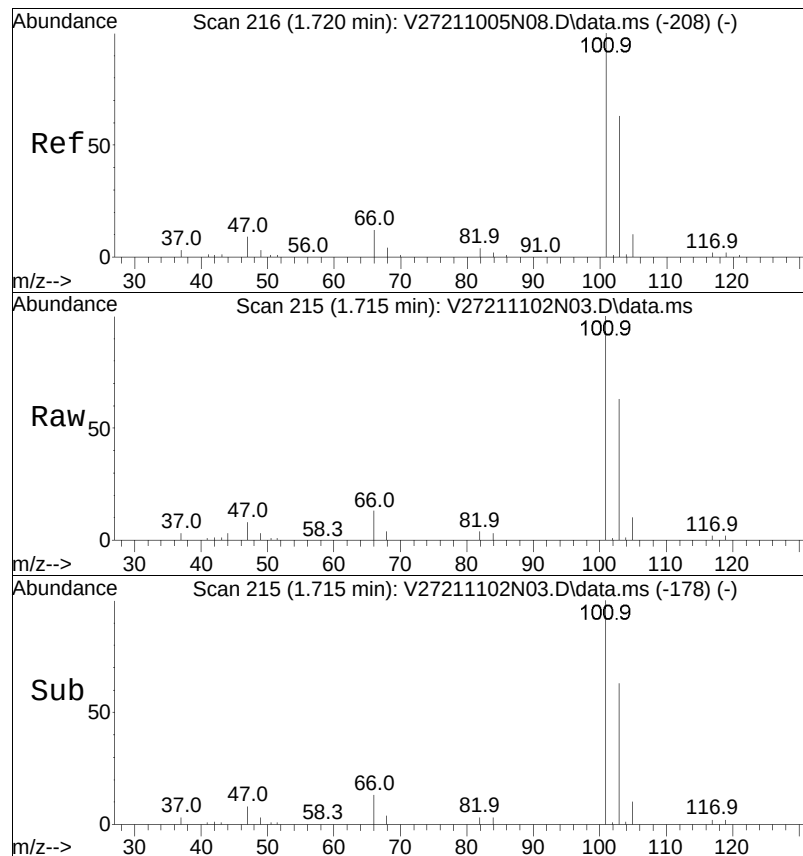




#6
 Chloroethane
 Concen: 28.00 ug/L
 RT: 1.610 min Scan# 195
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

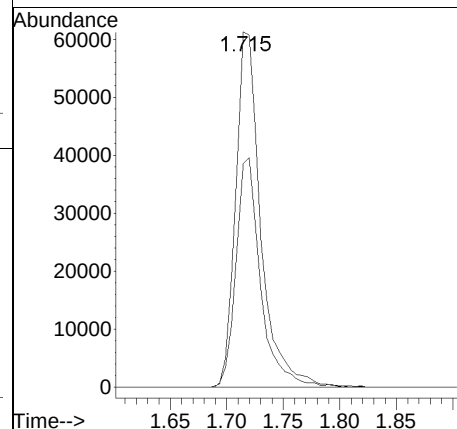
Tgt Ion	Ratio	Lower	Upper
64	100		
66	29.3	9.8	49.8

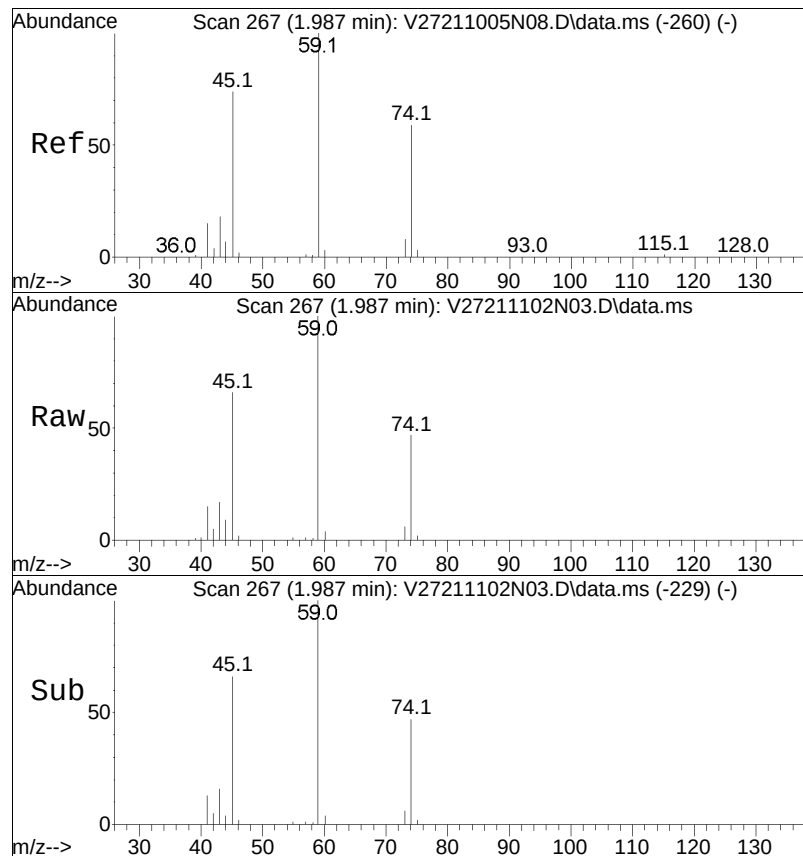




#7
 Trichlorofluoromethane
 Concen: 39.96 ug/L
 RT: 1.715 min Scan# 215
 Delta R.T. -0.005 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

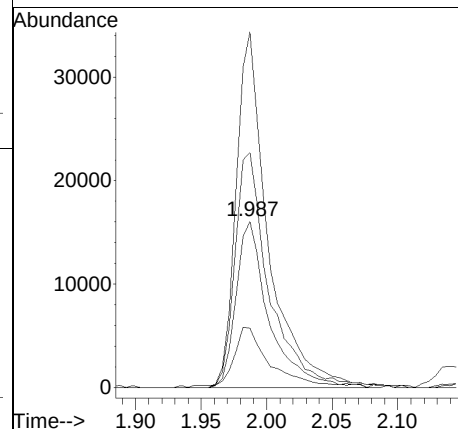
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.4	53.8	80.6

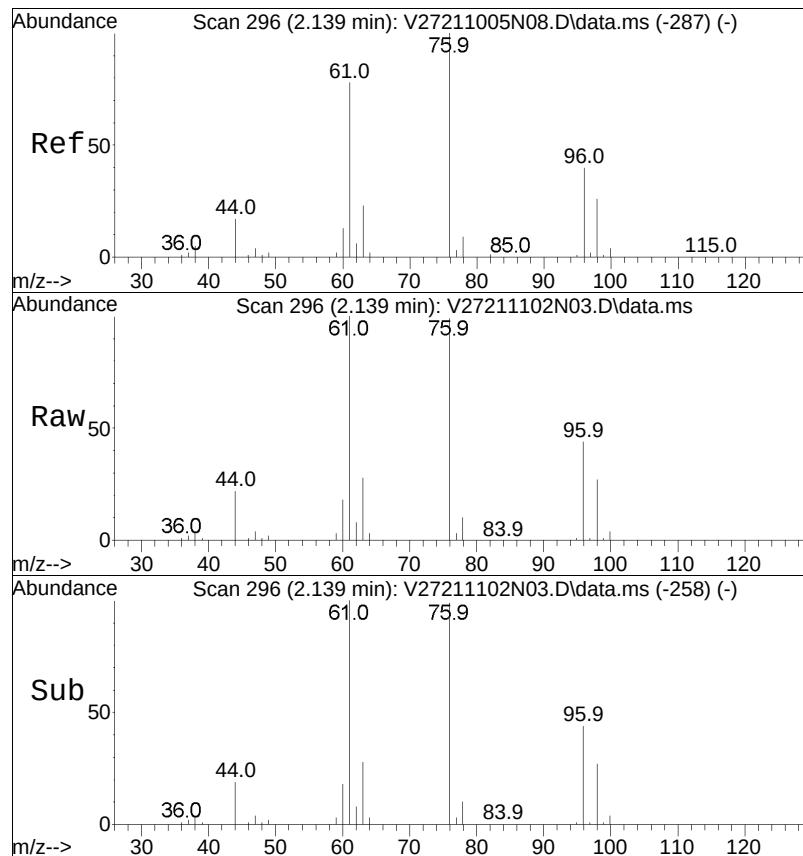




#8
 Ethyl ether
 Concen: 29.26 ug/L
 RT: 1.987 min Scan# 267
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

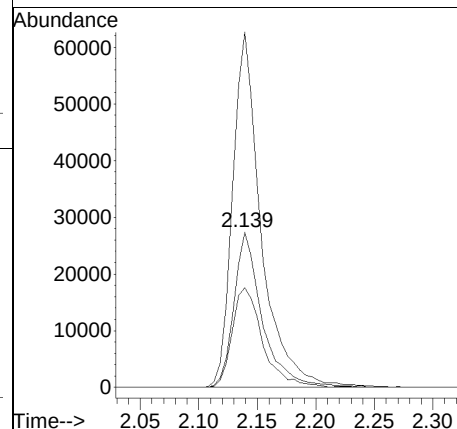
Tgt Ion:	74	Resp:	28140
Ion Ratio	Lower	Upper	
74	100		
59	209.7	122.2	253.8
45	147.7	91.9	190.9
43	40.9	25.2	52.2

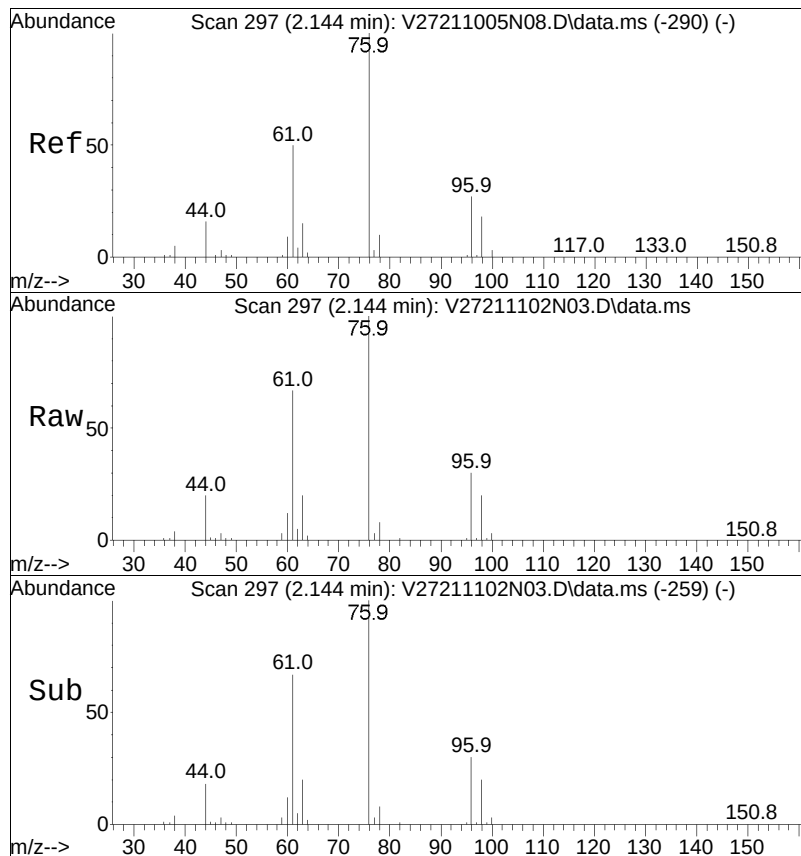




#10
 1,1-Dichloroethene
 Concen: 29.69 ug/L
 RT: 2.139 min Scan# 296
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

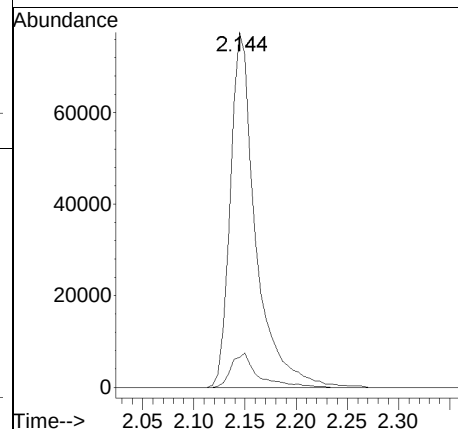
Tgt Ion	Ratio	Lower	Upper
96	100		
61	230.3	186.1	279.1
63	68.8	57.6	86.4

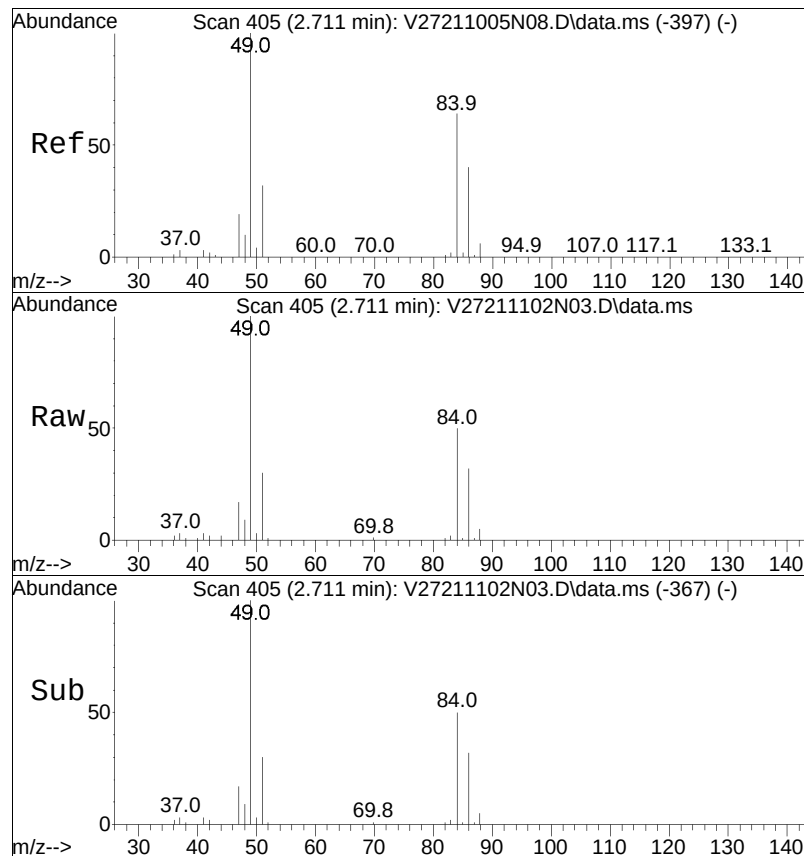




#11
 Carbon disulfide
 Concen: 28.97 ug/L
 RT: 2.144 min Scan# 297
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

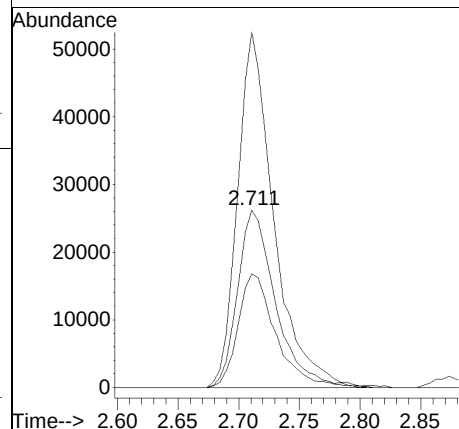
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.2	5.7	11.7

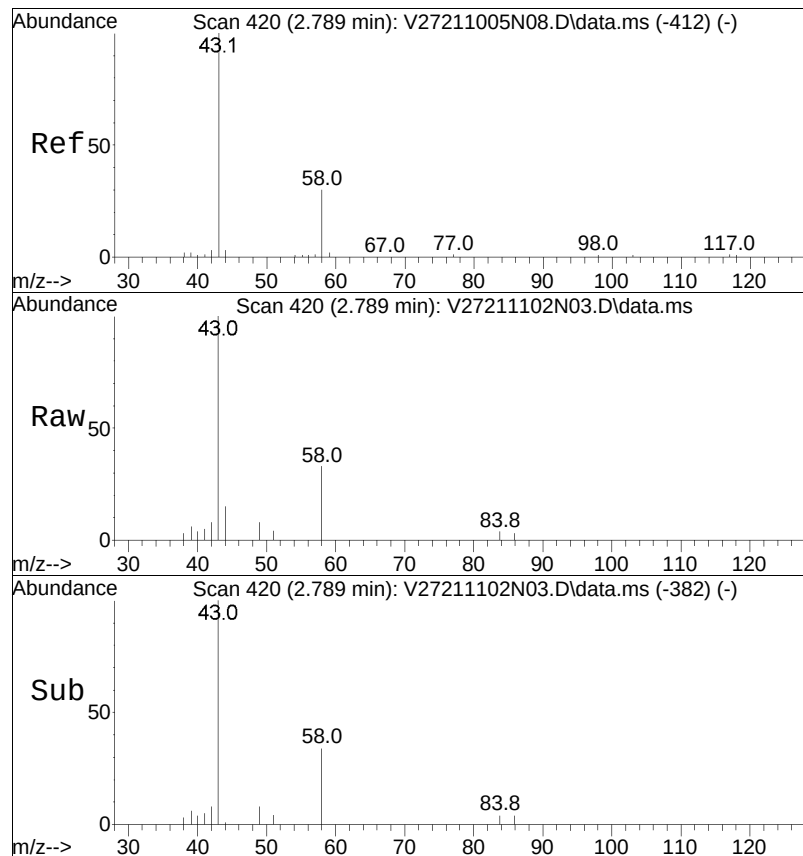




#15
Methylene chloride
Concen: 33.17 ug/L
RT: 2.711 min Scan# 405
Delta R.T. -0.000 min
Lab File: V27211102N03.D
Acq: 02 Nov 2021 04:59 pm

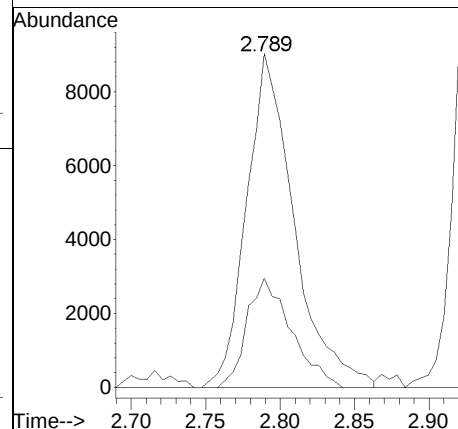
Tgt Ion:	84	Resp:	56897
Ion Ratio	Lower	Upper	
84	100		
86	63.8	40.4	83.8
49	191.5	120.0	249.2

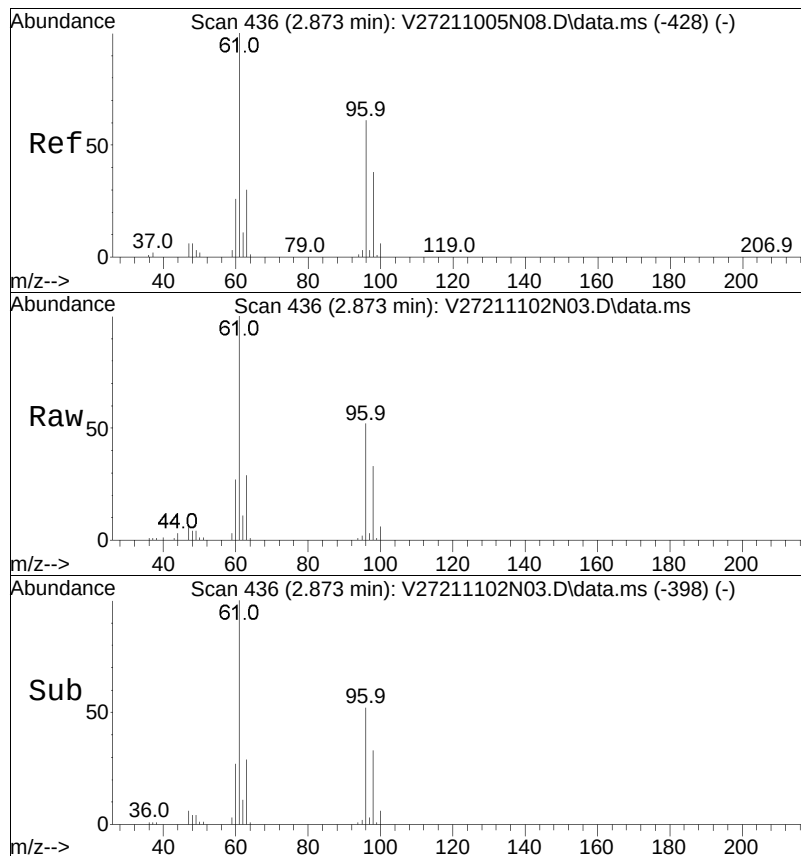




#17
 Acetone
 Concen: 24.45 ug/L
 RT: 2.789 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

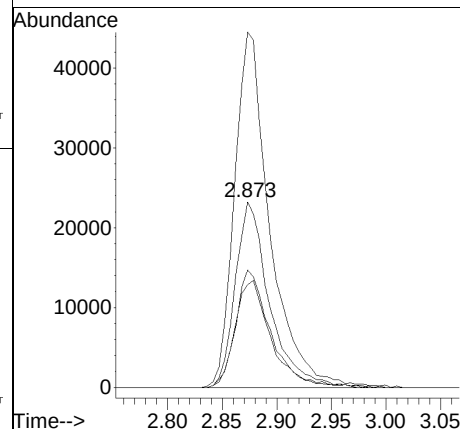
Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.2	36.4

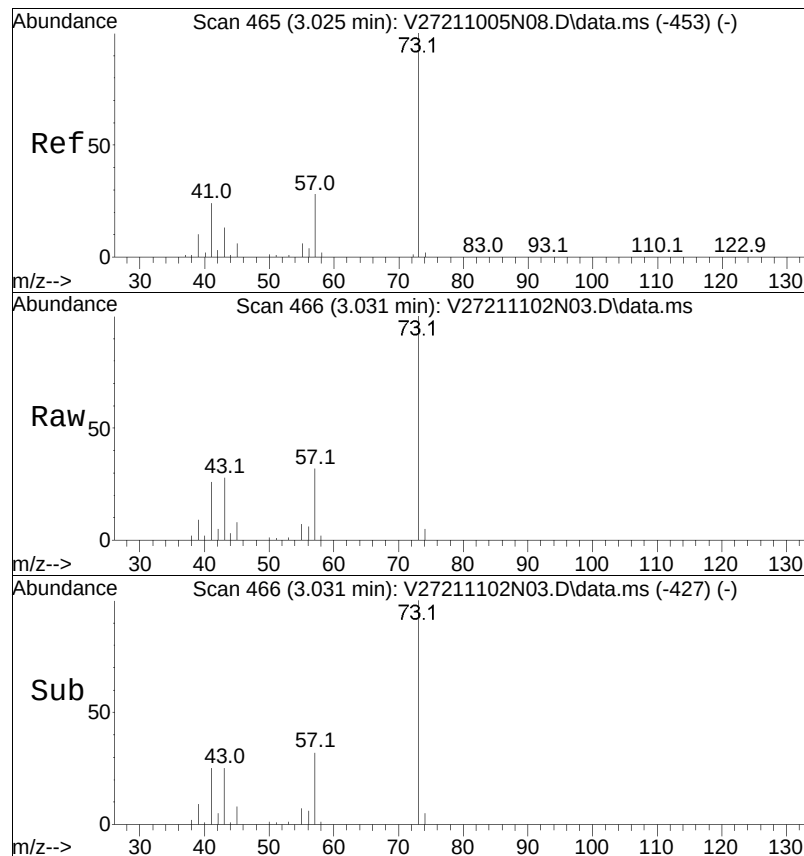




#18
 trans-1,2-Dichloroethene
 Concen: 29.23 ug/L
 RT: 2.873 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

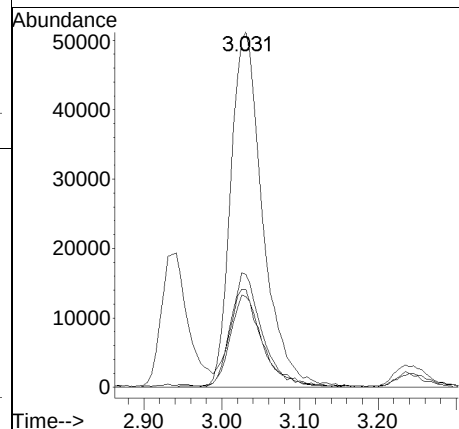
Tgt	Ion: 96	Resp:	50837
Ion	Ratio	Lower	Upper
96	100		
61	197.0	124.0	257.6
98	64.5	41.2	85.6
63	60.2	38.4	79.7

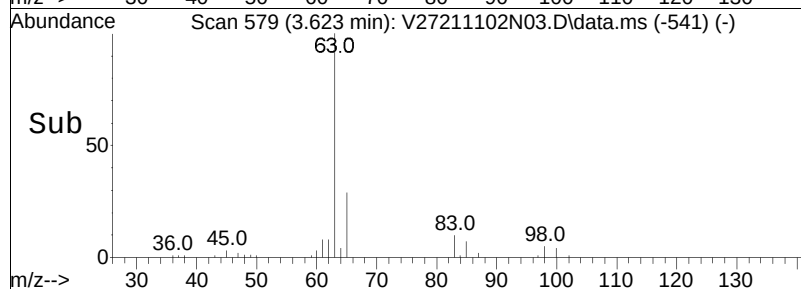
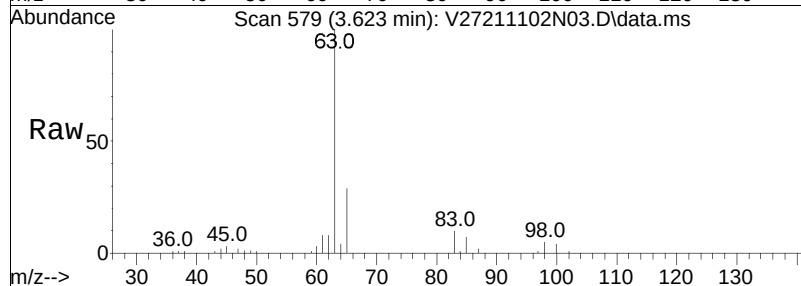
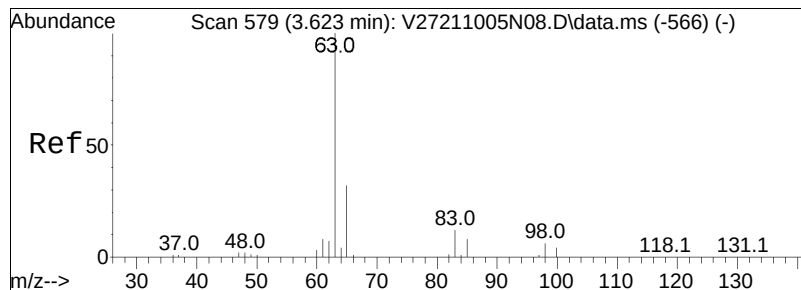




#20
Methyl tert-butyl ether
Concen: 36.70 ug/L
RT: 3.031 min Scan# 466
Delta R.T. 0.006 min
Lab File: V27211102N03.D
Acq: 02 Nov 2021 04:59 pm

Tgt Ion: 73	Resp: 146357
Ion Ratio	Lower Upper
73 100	
57 30.8	17.5 36.3
43 27.7	15.3 31.9
41 26.7	15.3 31.7





#23

1,1-Dichloroethane

Concen: 36.75 ug/L

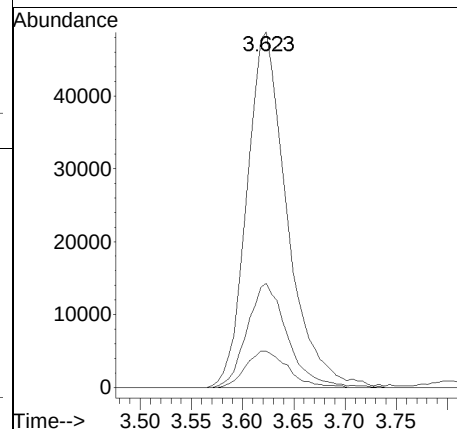
RT: 3.623 min Scan# 579

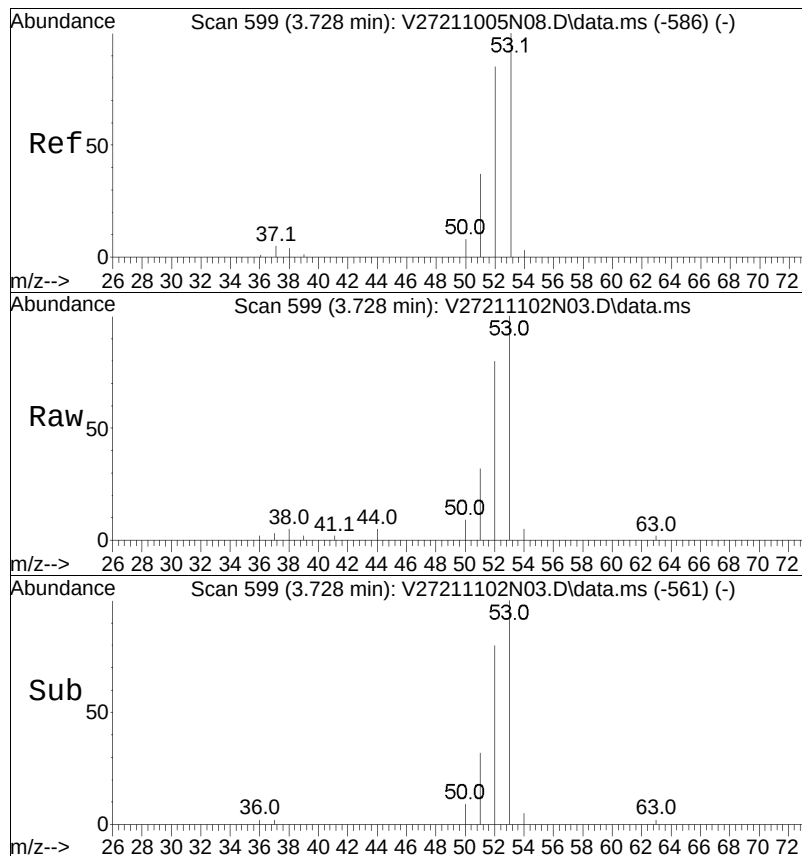
Delta R.T. 0.000 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

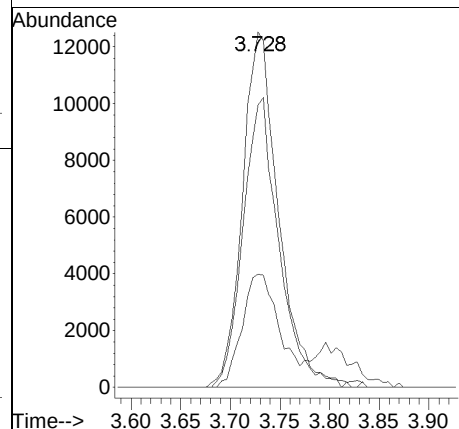
Tgt Ion:	63	Resp:	132964
Ion Ratio	Lower	Upper	
63	100		
65	29.4	11.0	51.0
83	10.8	0.0	31.8

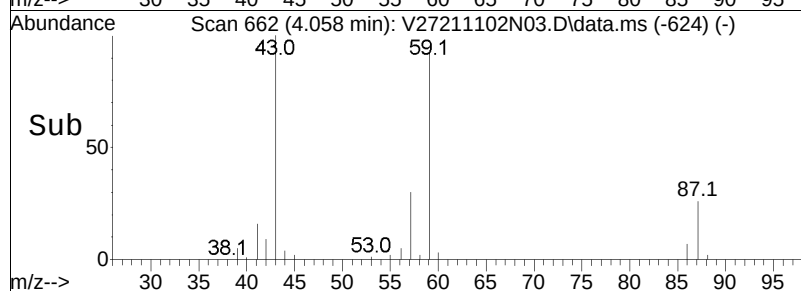
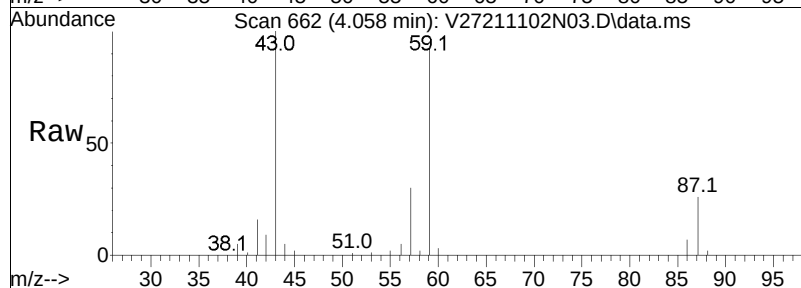
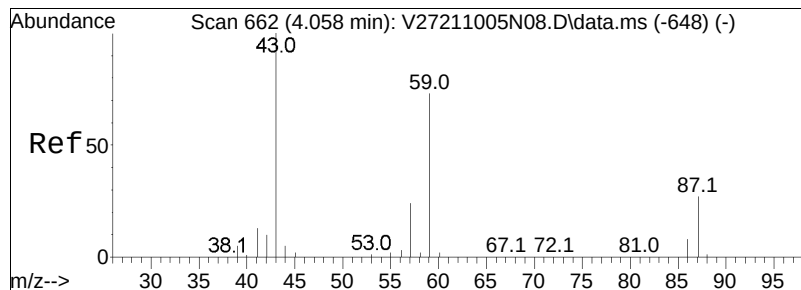




#25
 Acrylonitrile
 Concen: 41.29 ug/L
 RT: 3.728 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt Ion:	53	Resp:	31803
Ion Ratio	Lower	Upper	
53	100		
52	80.9	66.7	100.1
51	32.7	30.6	46.0





#27

Vinyl acetate

Concen: 42.42 ug/L

RT: 4.058 min Scan# 662

Delta R.T. 0.000 min

Lab File: V27211102N03.D

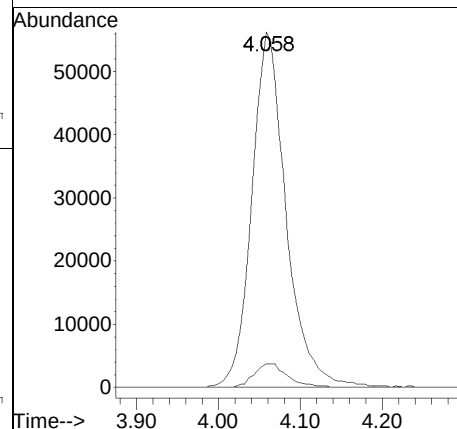
Acq: 02 Nov 2021 04:59 pm

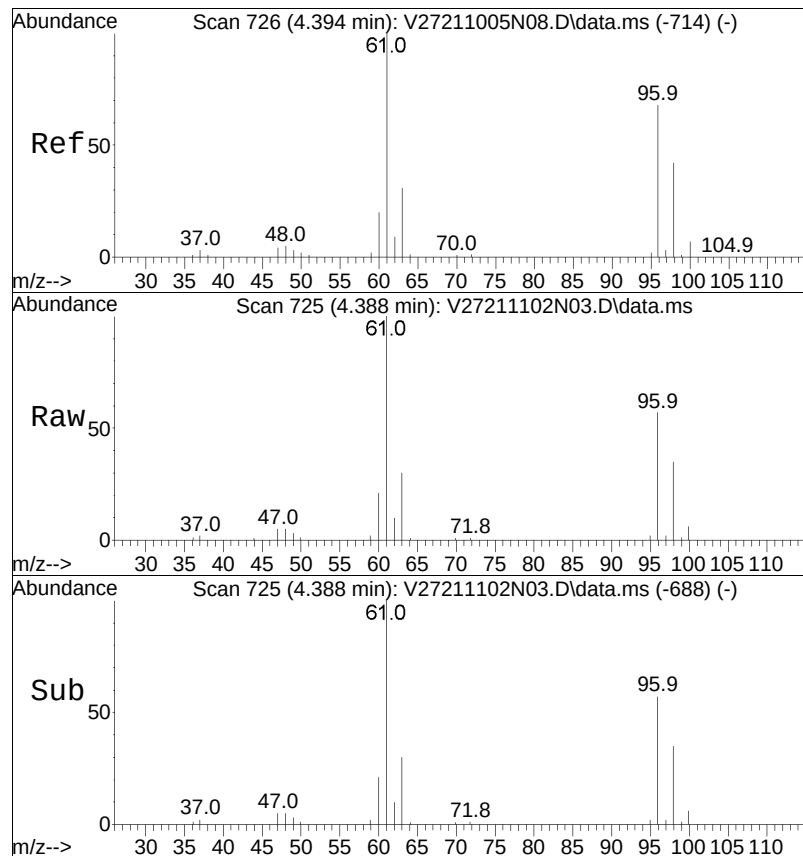
Tgt Ion: 43 Resp: 163968

Ion Ratio Lower Upper

43 100

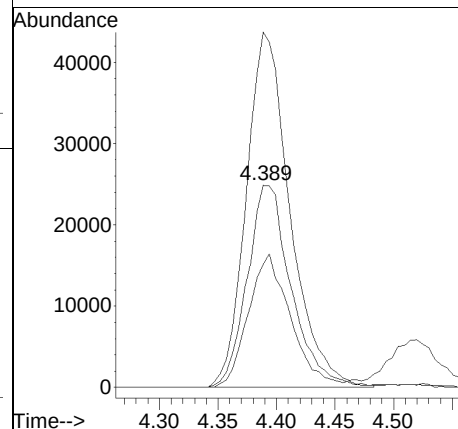
86 6.5 5.2 7.8

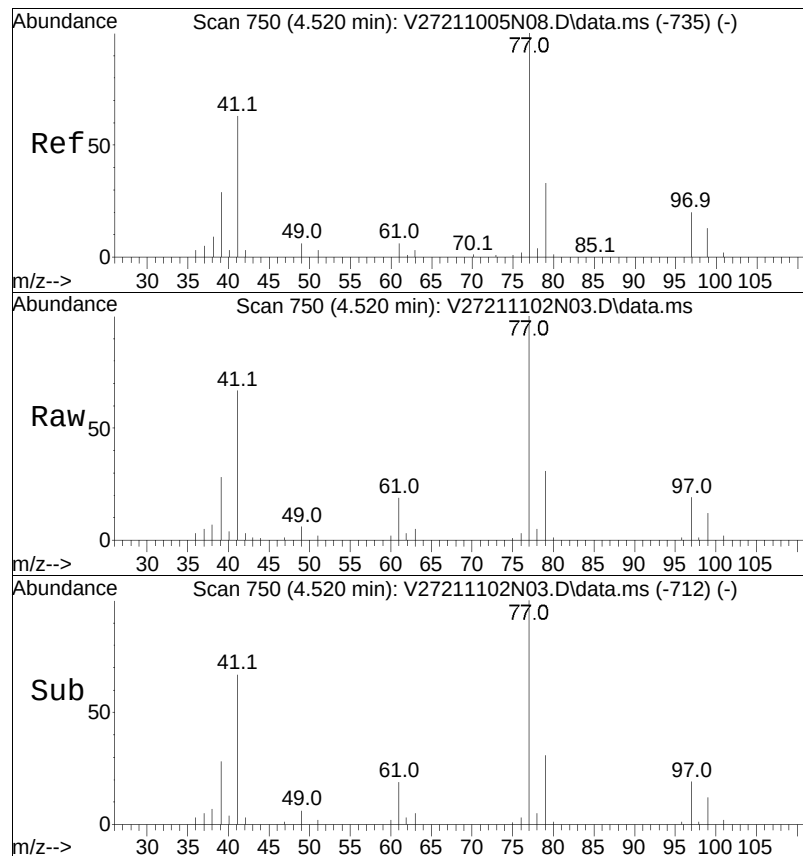




#28
 cis-1,2-Dichloroethene
 Concen: 32.12 ug/L
 RT: 4.388 min Scan# 725
 Delta R.T. -0.006 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

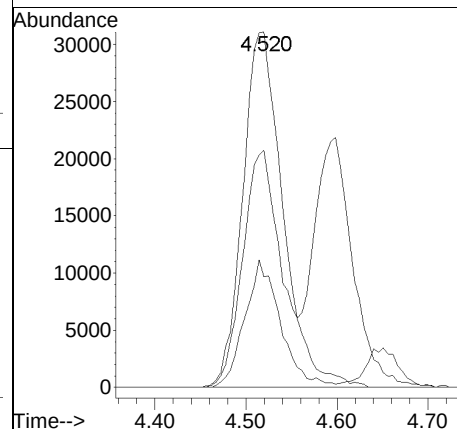
Tgt Ion: 96	Resp: 65142
Ion Ratio	Lower Upper
96 100	
61 174.7	149.4 224.2
98 64.2	53.4 80.2

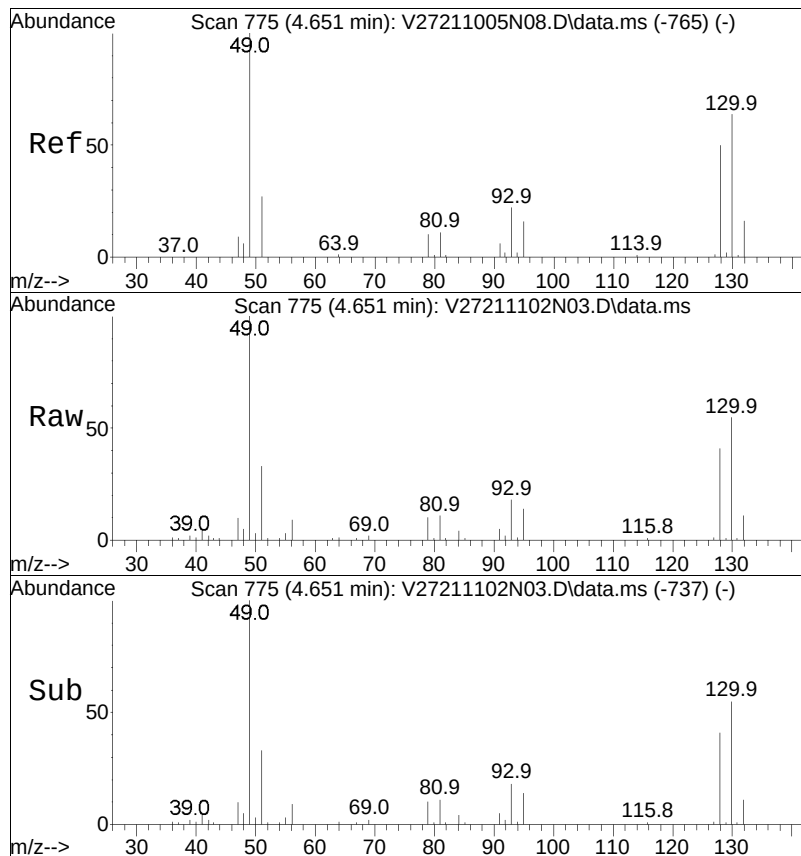




#29
 2,2-Dichloropropane
 Concen: 35.67 ug/L
 RT: 4.520 min Scan# 750
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

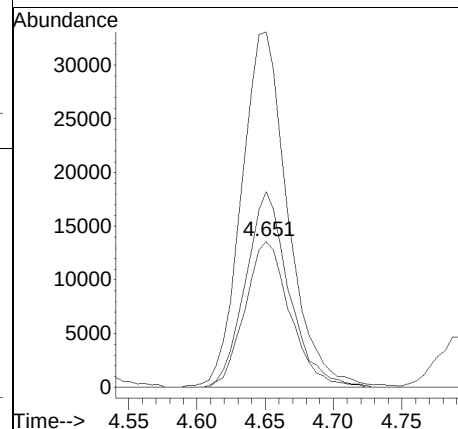
Tgt Ion: 77	Resp: 95435
Ion Ratio	Lower Upper
77 100	
41 62.5	38.0 78.8
79 31.9	20.5 42.5

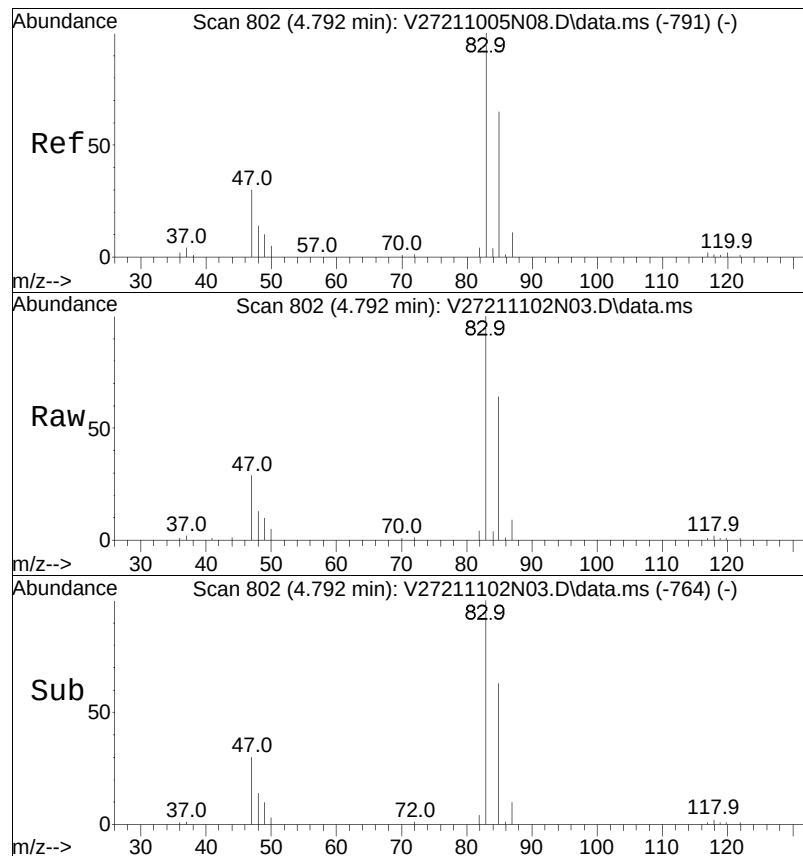




#30
 Bromochloromethane
 Concen: 31.70 ug/L
 RT: 4.651 min Scan# 775
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

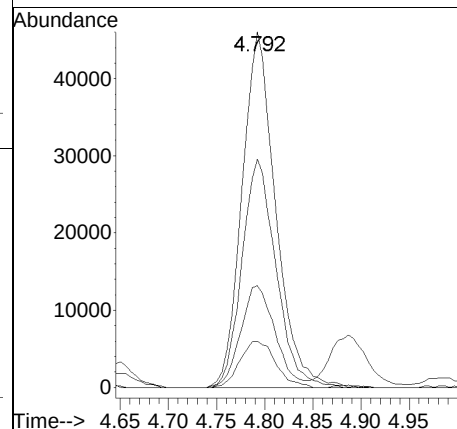
Tgt Ion	Ratio	Lower	Upper
128	100		
49	251.3	223.0	334.4
130	129.4	111.4	167.0

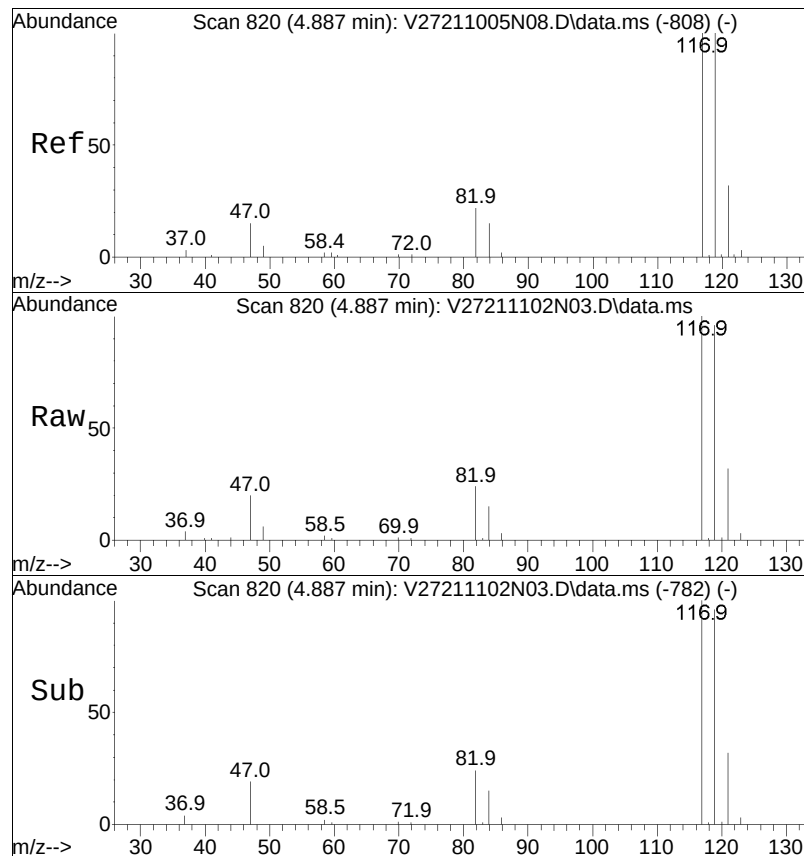




#32
 Chloroform
 Concen: 34.24 ug/L
 RT: 4.792 min Scan# 802
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt	Ion: 83	Resp:	111747
Ion	Ratio	Lower	Upper
83	100		
85	64.9	41.5	86.1
47	29.4	19.0	39.4
48	13.8	9.9	20.5





#34

Carbon tetrachloride

Concen: 41.62 ug/L

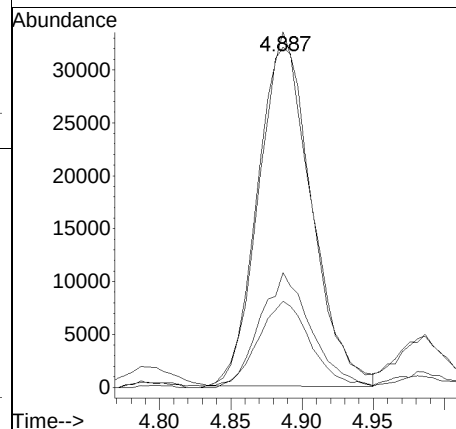
RT: 4.887 min Scan# 820

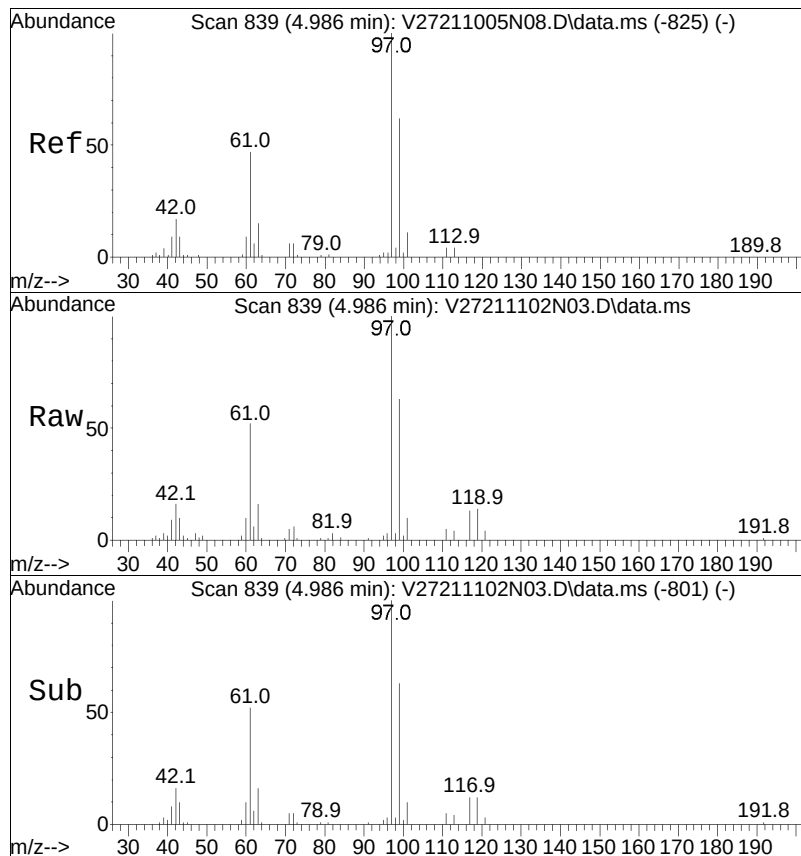
Delta R.T. -0.000 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

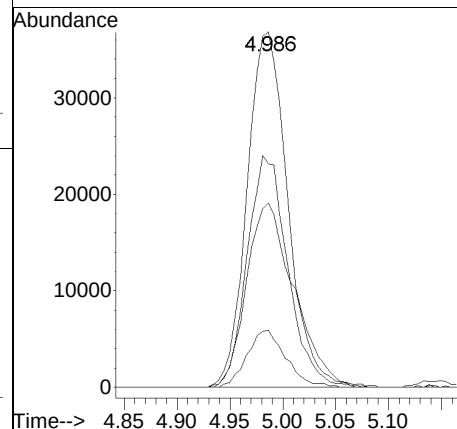
Tgt Ion:	117	Resp:	87285
Ion Ratio	Lower	Upper	
117	100		
119	96.5	62.4	129.6
121	31.0	19.5	40.5
82	24.0	17.0	35.4

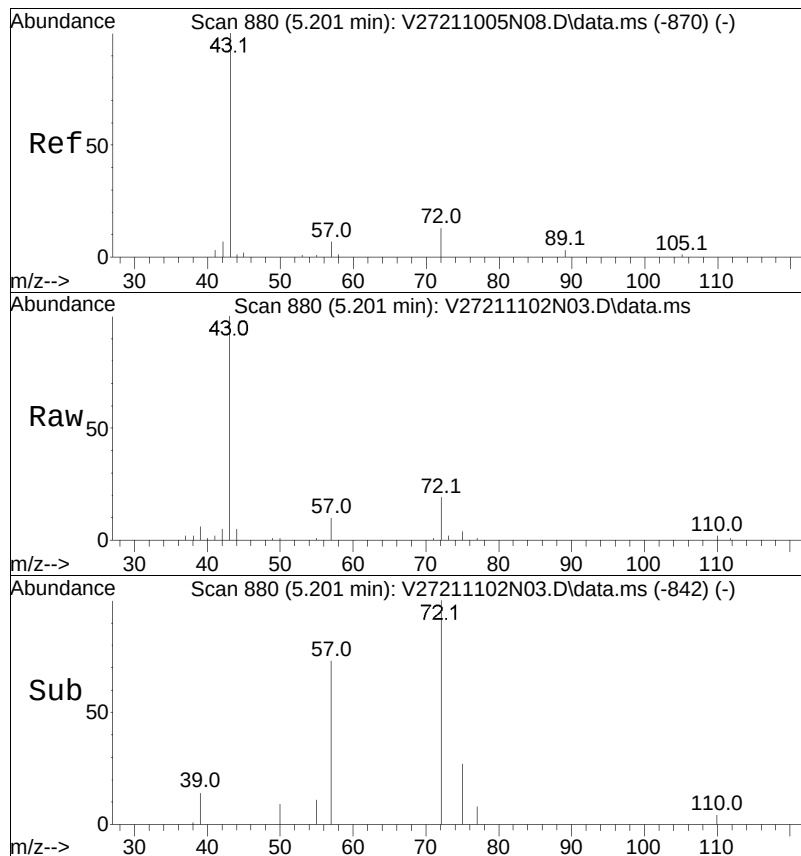




#37
 1,1,1-Trichloroethane
 Concen: 38.85 ug/L
 RT: 4.986 min Scan# 839
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

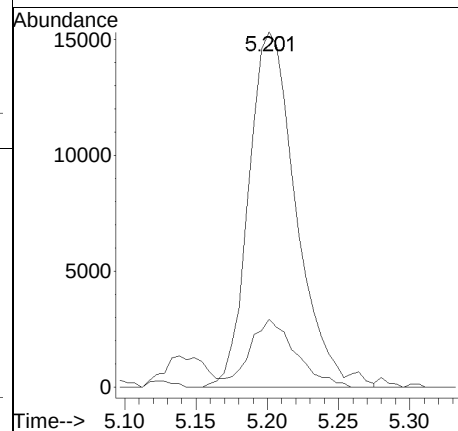
Tgt Ion:	97	Resp:	98554
Ion Ratio	Lower	Upper	
97	100		
99	64.8	40.7	84.5
61	60.6	35.4	73.4
63	15.4	5.0	10.4#

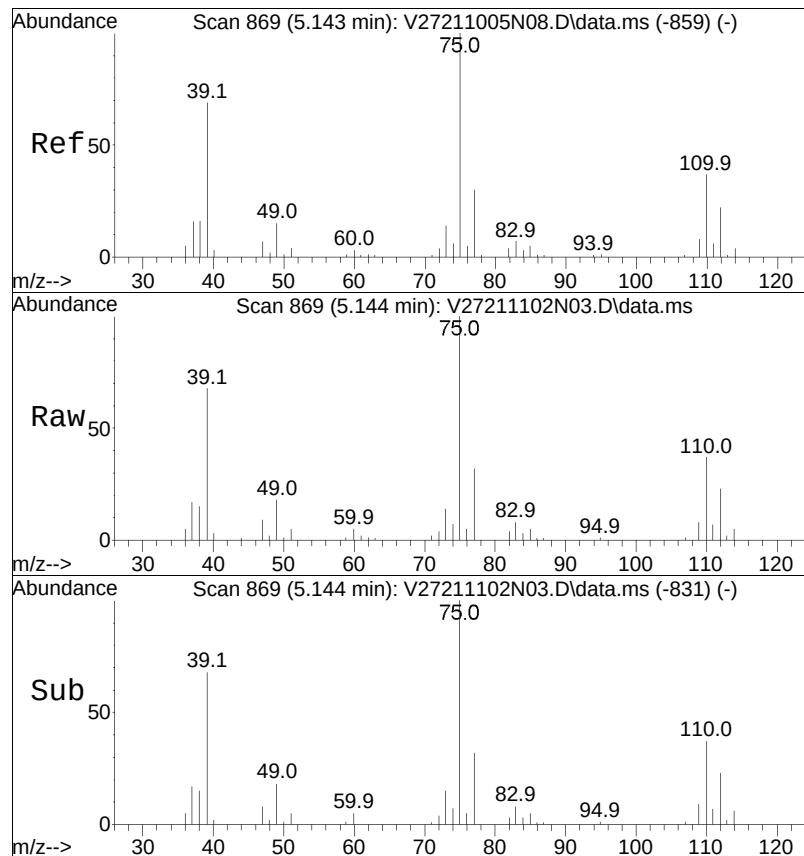




#39
 2-Butanone
 Concen: 30.50 ug/L
 RT: 5.201 min Scan# 880
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

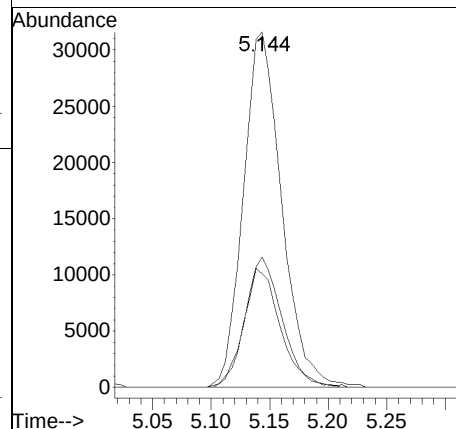
Tgt Ion:	43	72	Ratio	100	18.5	Resp:	35592	Lower	Upper

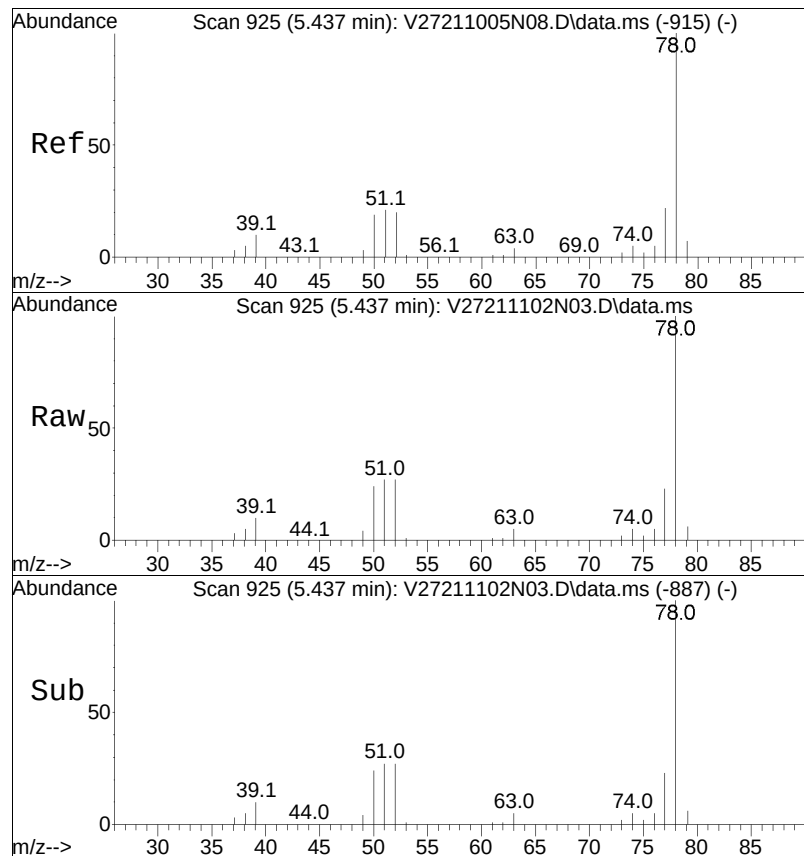




#40
 1,1-Dichloropropene
 Concen: 35.91 ug/L
 RT: 5.144 min Scan# 869
 Delta R.T. 0.001 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

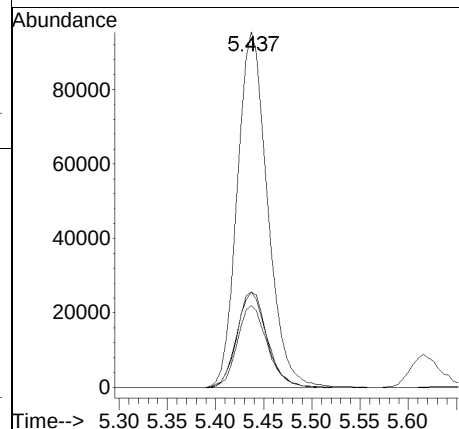
Tgt Ion:	75	Resp:	72009
Ion Ratio	Lower	Upper	
75	100		
110	35.7	20.2	41.9
77	31.8	20.1	41.7

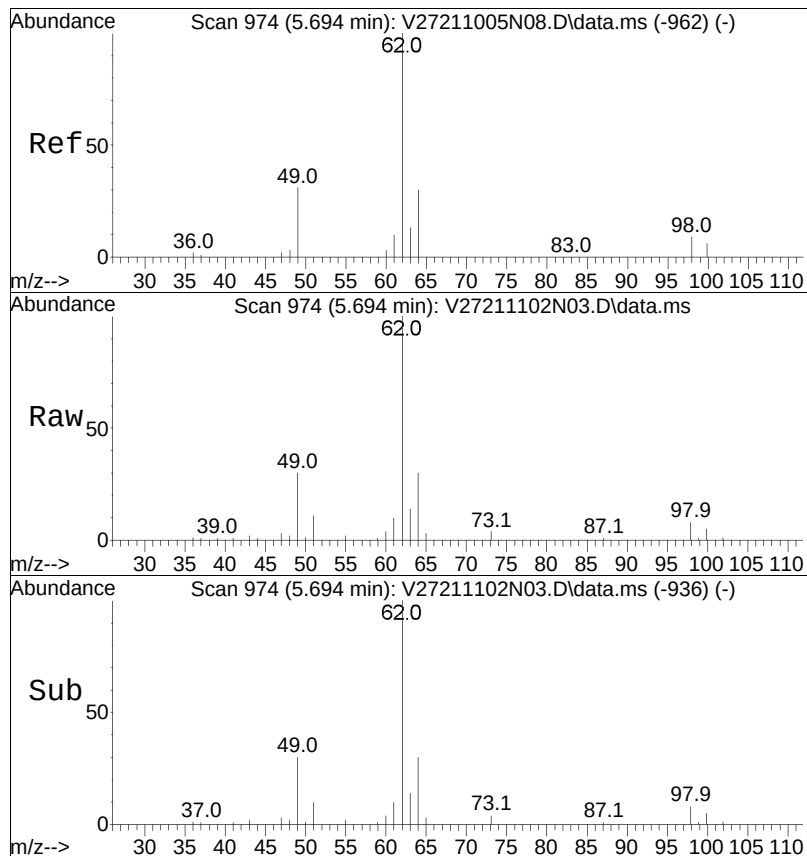




#41
Benzene
Concen: 34.79 ug/L
RT: 5.437 min Scan# 925
Delta R.T. 0.000 min
Lab File: V27211102N03.D
Acq: 02 Nov 2021 04:59 pm

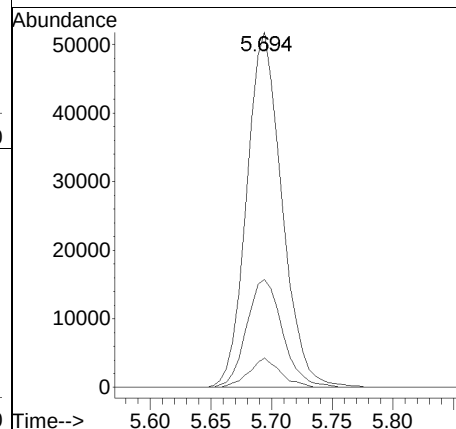
Tgt Ion:	78	Resp:	208194
Ion Ratio	Lower	Upper	
78	100		
77	22.9	15.7	32.7
51	26.7	16.0	33.2
52	26.8	15.3	31.9

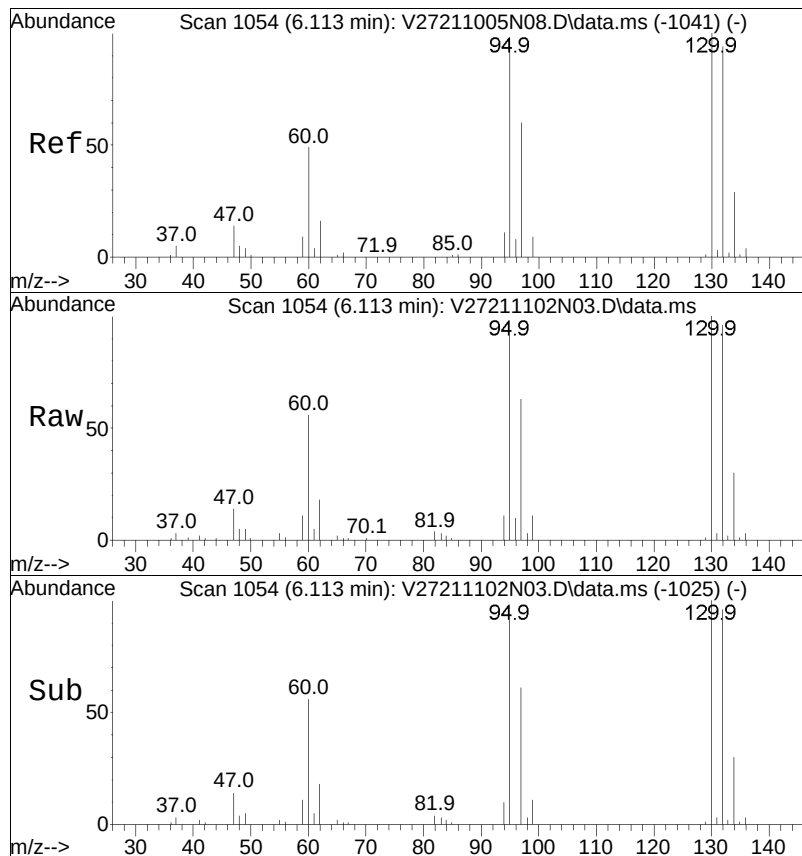




#44
 1,2-Dichloroethane
 Concen: 44.22 ug/L
 RT: 5.694 min Scan# 974
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

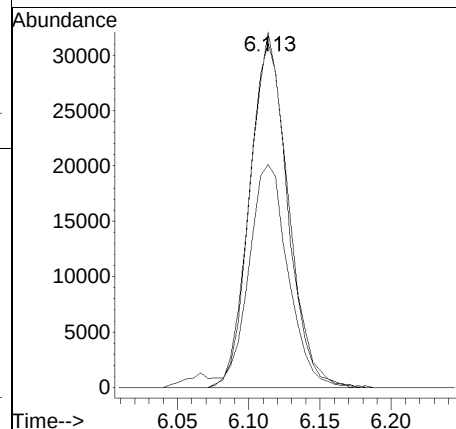
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.0	11.2	51.2
98	7.5	0.0	26.1

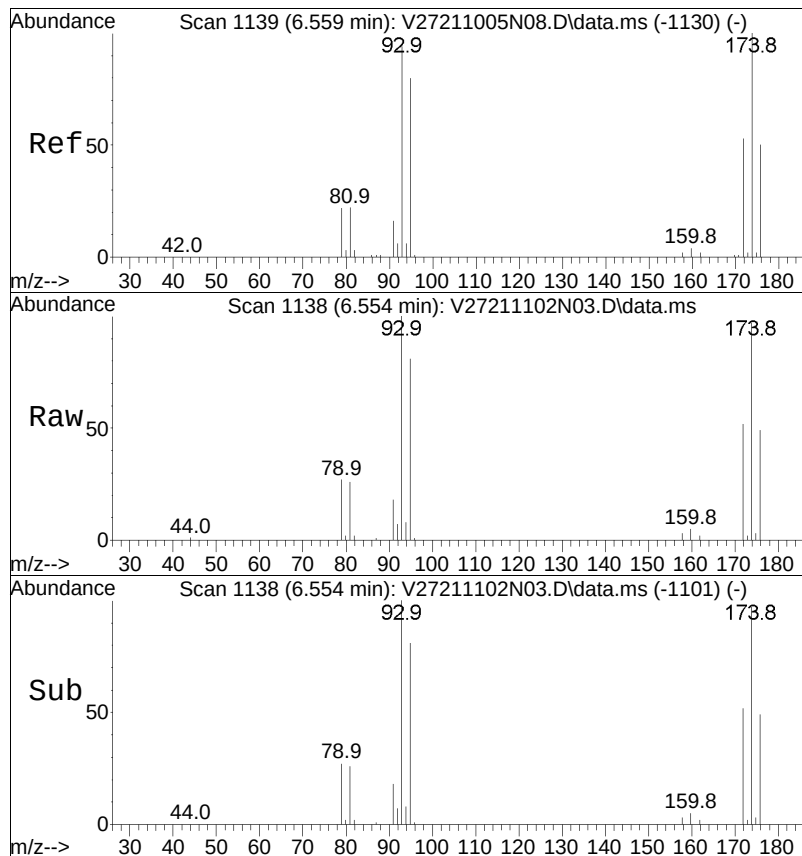




#48
 Trichloroethene
 Concen: 37.96 ug/L
 RT: 6.113 min Scan# 1054
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

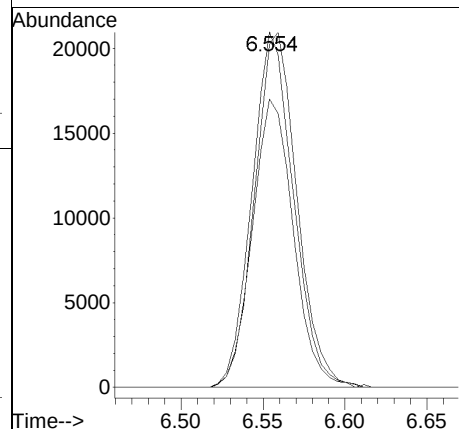
Tgt Ion	Ratio	Resp	Lower	Upper
95	100	58436		
97	66.2		55.5	83.3
130	101.4		76.6	115.0

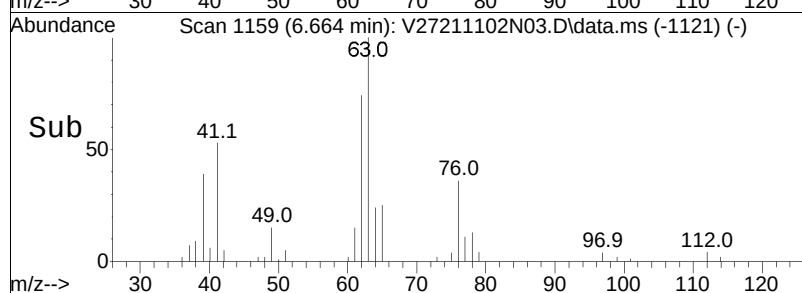
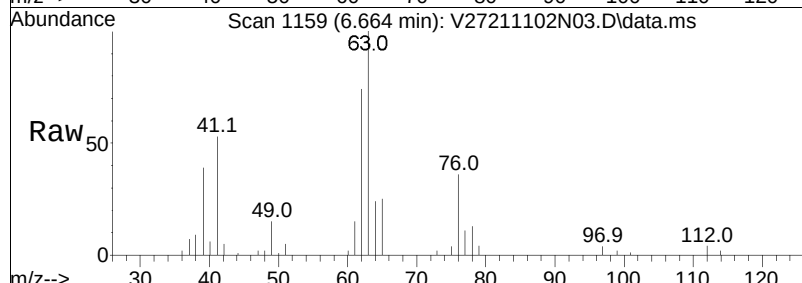
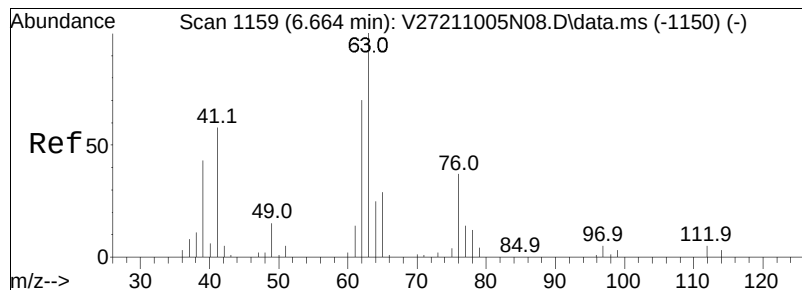




#50
 Dibromomethane
 Concen: 34.80 ug/L
 RT: 6.554 min Scan# 1138
 Delta R.T. -0.005 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

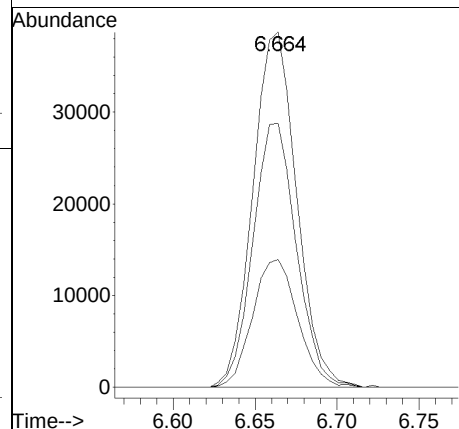
Tgt Ion:	93	Resp:	36988
Ion Ratio	Lower	Upper	
93	100		
95	80.4	67.0	100.4
174	101.6	75.0	112.4

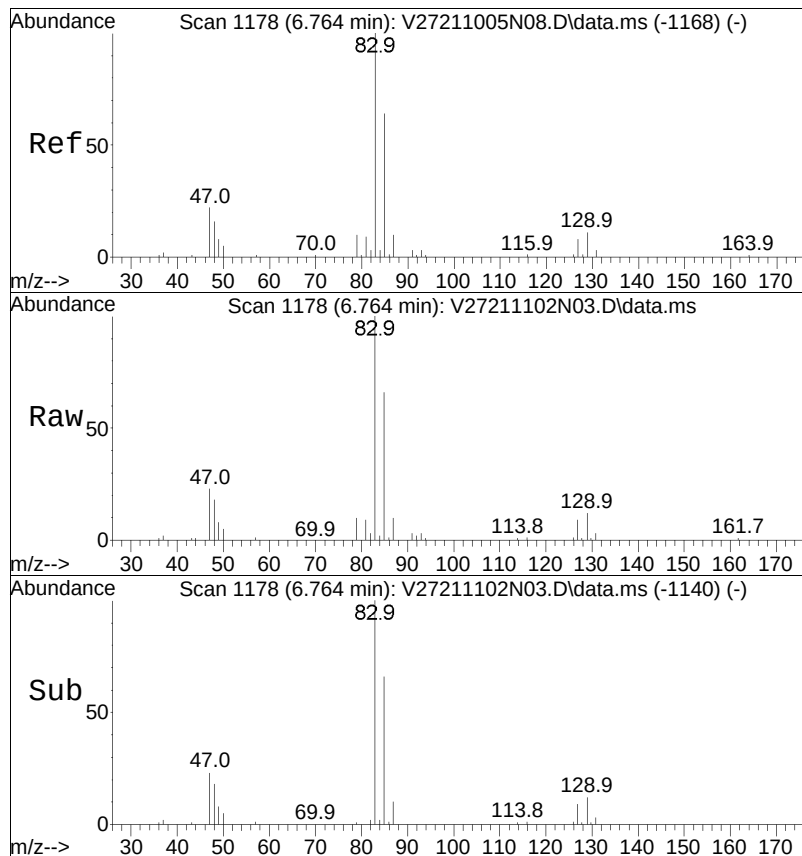




#51
 1,2-Dichloropropane
 Concen: 42.49 ug/L
 RT: 6.664 min Scan# 1159
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

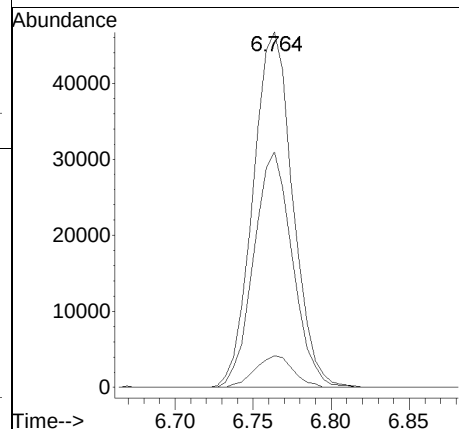
Tgt Ion	Ratio	Lower	Upper
63	100		
62	73.6	58.6	87.8
76	37.2	38.0	57.0#

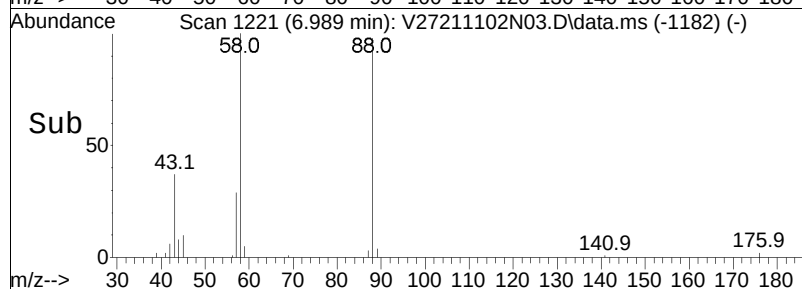
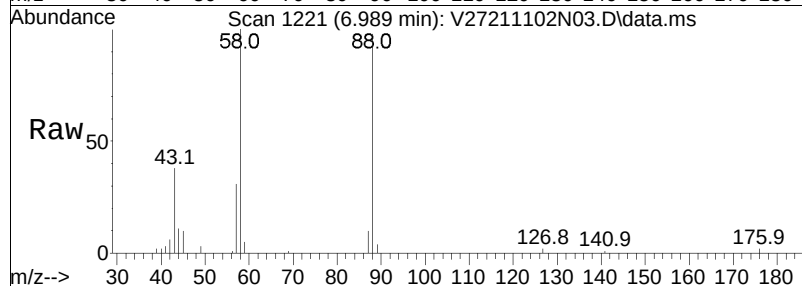
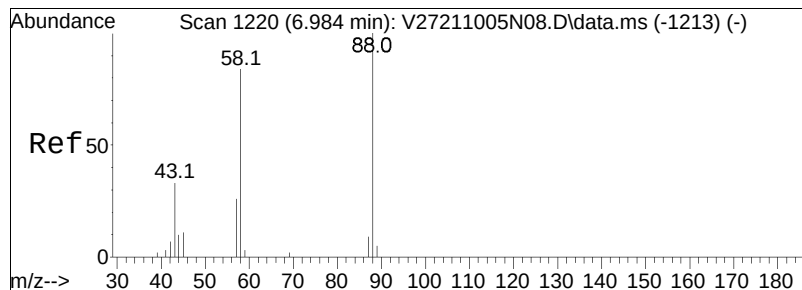




#54
 Bromodichloromethane
 Concen: 35.33 ug/L
 RT: 6.764 min Scan# 1178
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt	Ion: 83	Resp:	82846
Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.3	78.5
127	8.6	6.2	9.4





#57

1,4-Dioxane

Concen: 1488.61 ug/L

RT: 6.989 min Scan# 1221

Delta R.T. 0.005 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

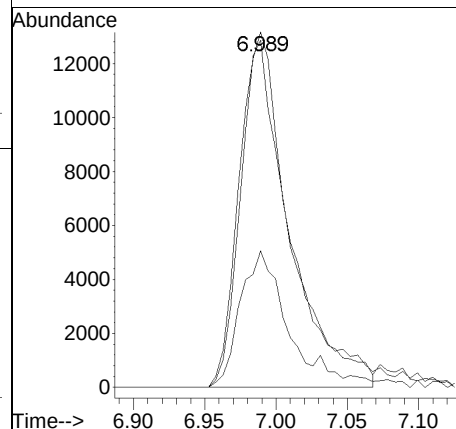
Tgt Ion: 88 Resp: 30295

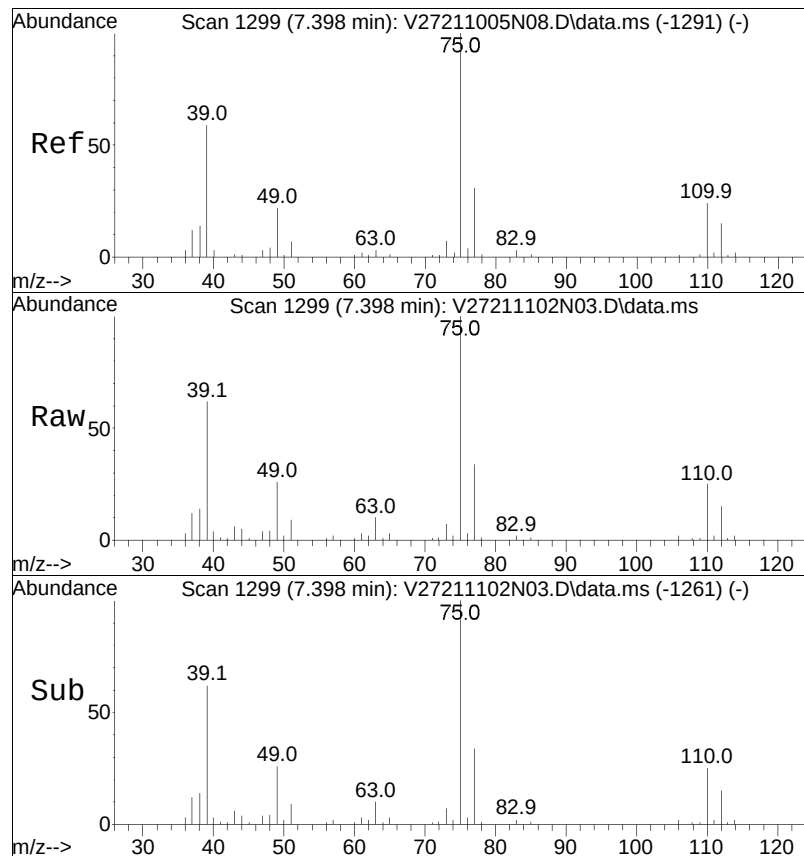
Ion Ratio Lower Upper

88 100

58 109.3 76.7 115.1

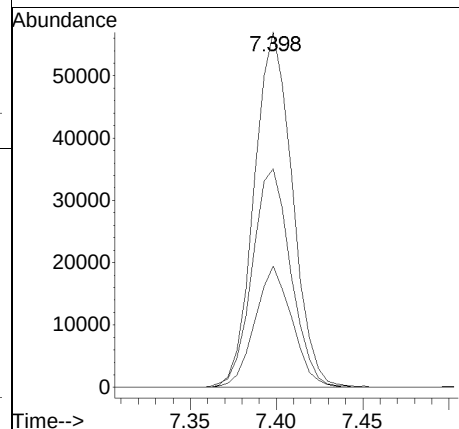
43 40.7 36.2 54.2

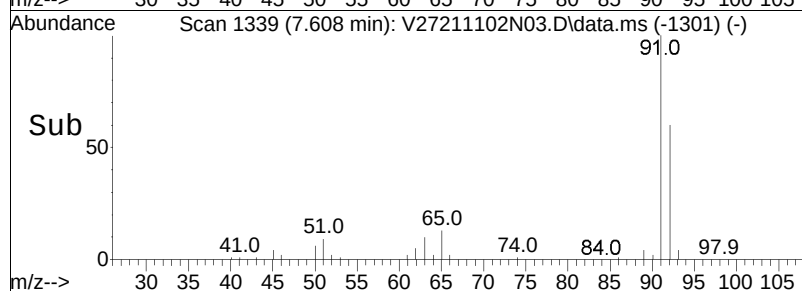
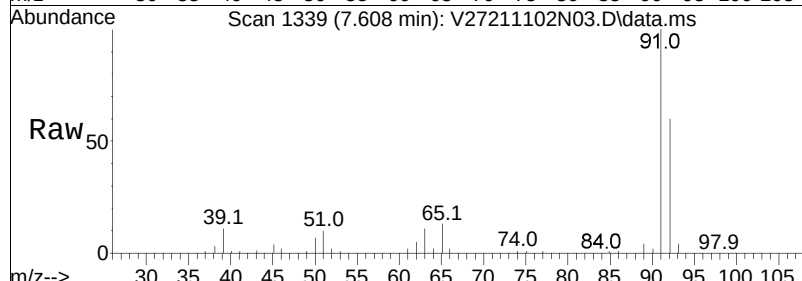
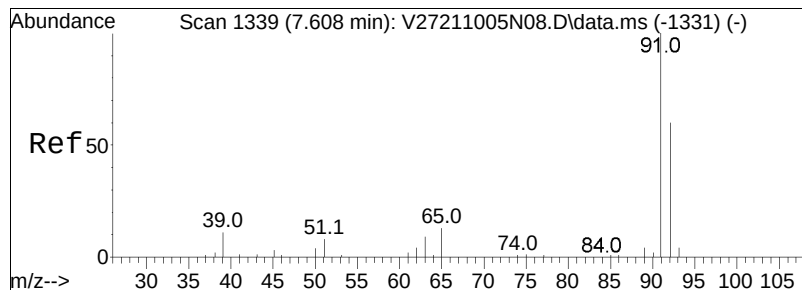




#58
 cis-1,3-Dichloropropene
 Concen: 38.51 ug/L
 RT: 7.398 min Scan# 1299
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

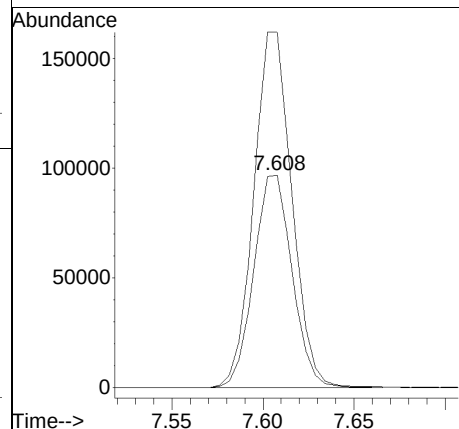
Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.0	37.4
39	62.4	50.1	75.1

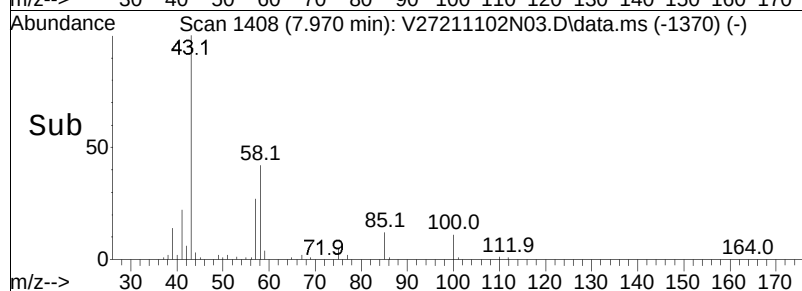
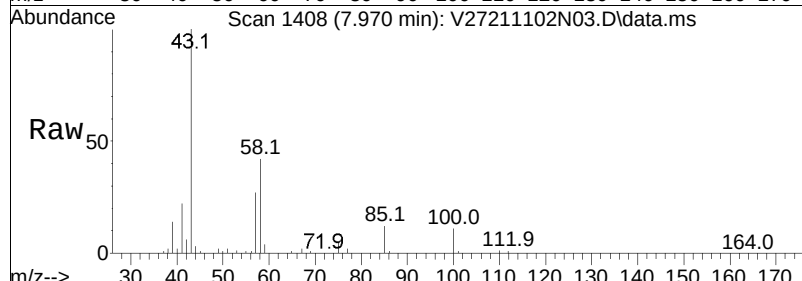
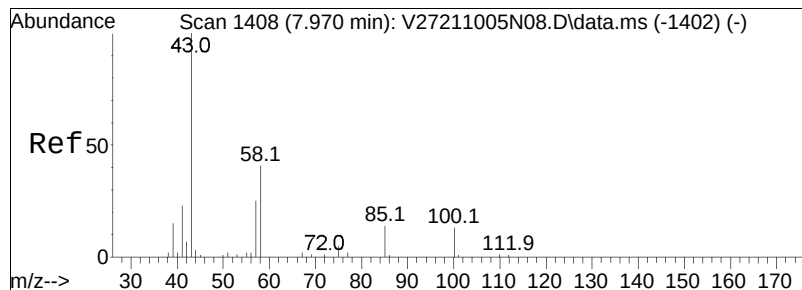




#61
Toluene
Concen: 35.65 ug/L
RT: 7.608 min Scan# 1339
Delta R.T. -0.000 min
Lab File: V27211102N03.D
Acq: 02 Nov 2021 04:59 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	166.6	139.8	209.6





#62

4-Methyl-2-pentanone

Concen: 43.54 ug/L

RT: 7.970 min Scan# 1408

Delta R.T. -0.000 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

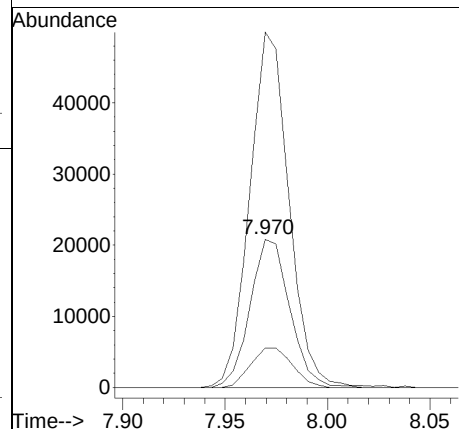
Tgt Ion: 58 Resp: 28108

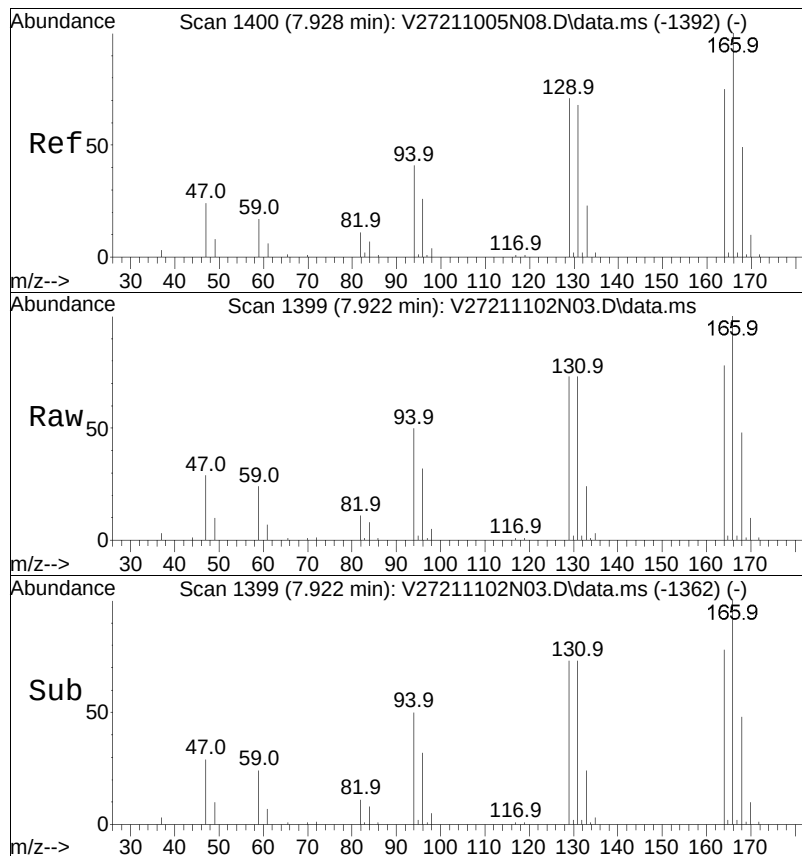
Ion Ratio Lower Upper

58 100

100 27.9 20.2 30.2

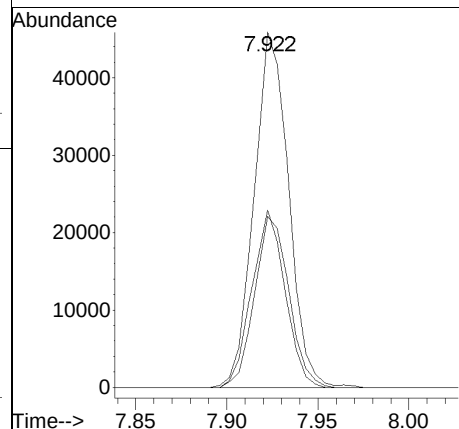
43 236.7 196.6 295.0

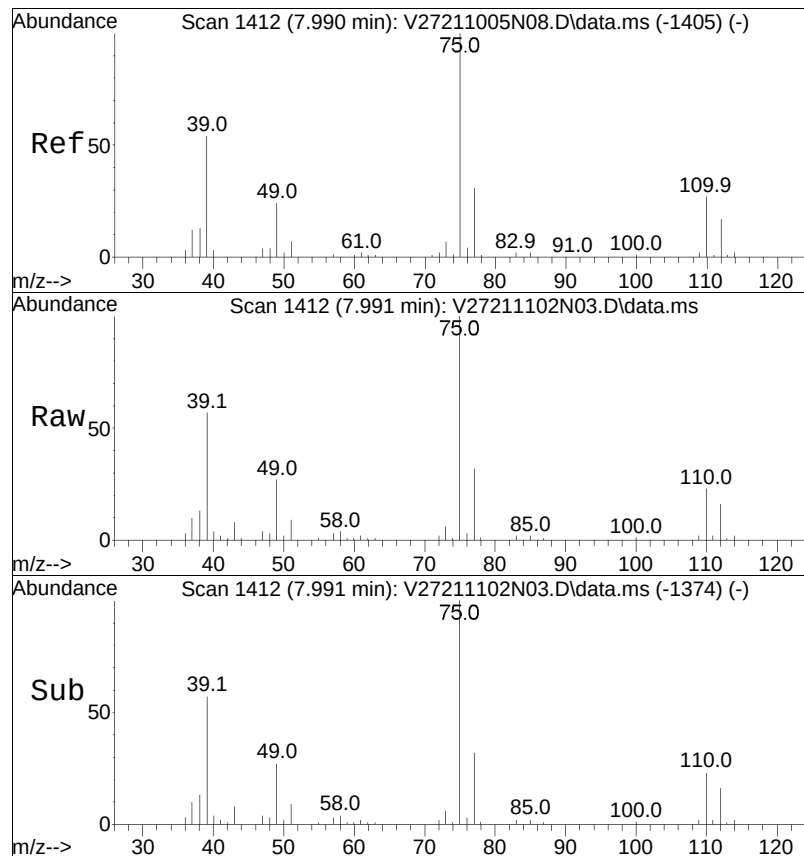




#63
Tetrachloroethene
Concen: 40.02 ug/L
RT: 7.922 min Scan# 1399
Delta R.T. -0.006 min
Lab File: V27211102N03.D
Acq: 02 Nov 2021 04:59 pm

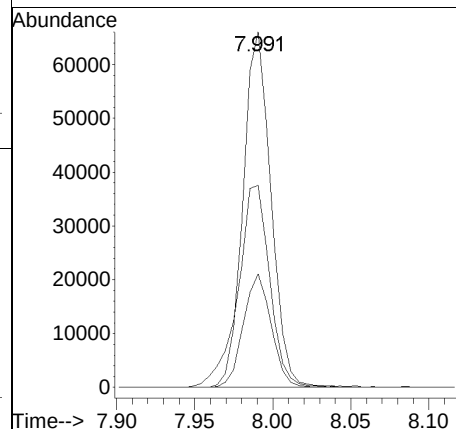
Tgt	Ion:166	Resp:	60410
Ion	Ratio	Lower	Upper
166	100		
168	47.8	28.2	68.2
94	47.8	38.4	78.4

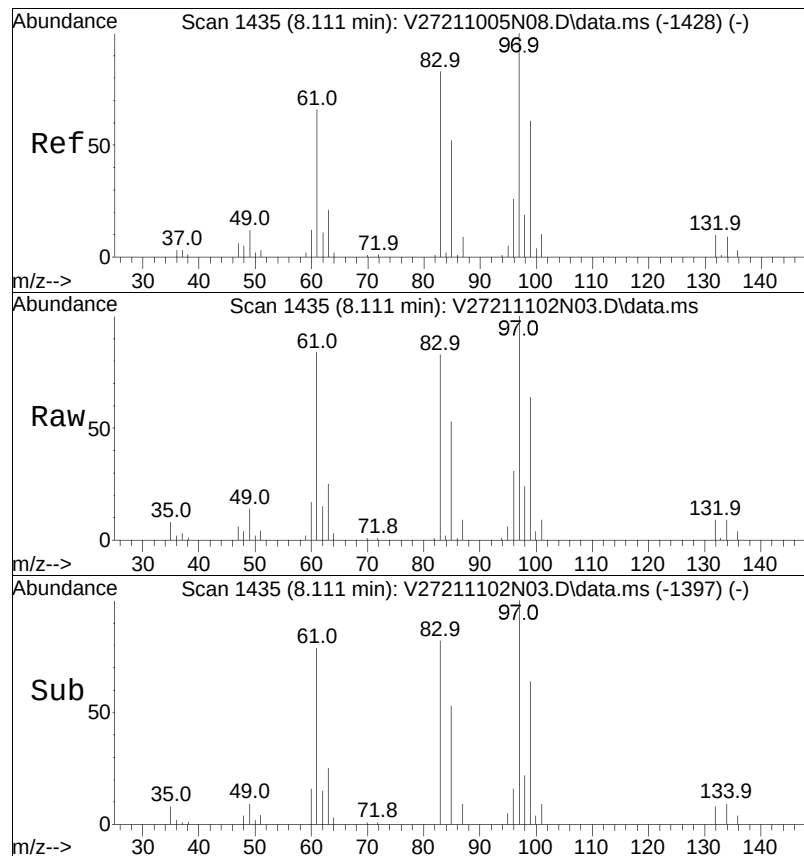




#65
 trans-1,3-Dichloropropene
 Concen: 40.09 ug/L
 RT: 7.991 min Scan# 1412
 Delta R.T. 0.001 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

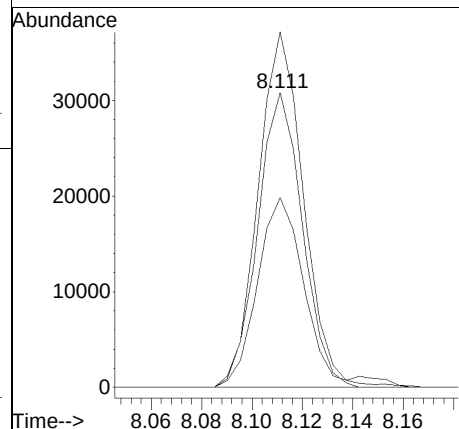
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	12.4	52.4
39	65.1	42.8	82.8

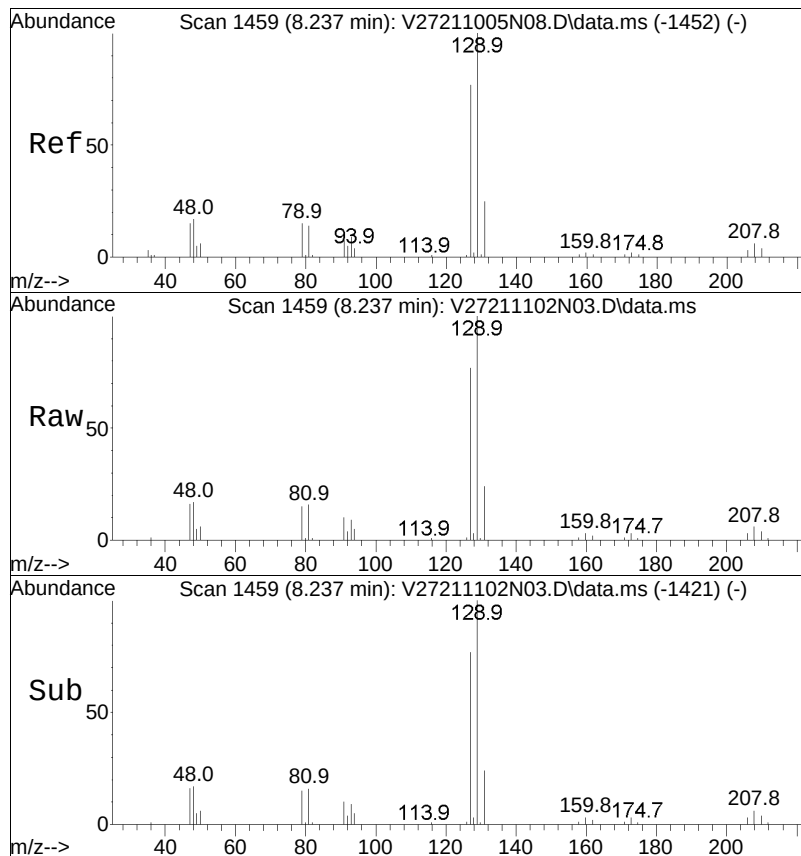




#68
 1,1,2-Trichloroethane
 Concen: 36.70 ug/L
 RT: 8.111 min Scan# 1435
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

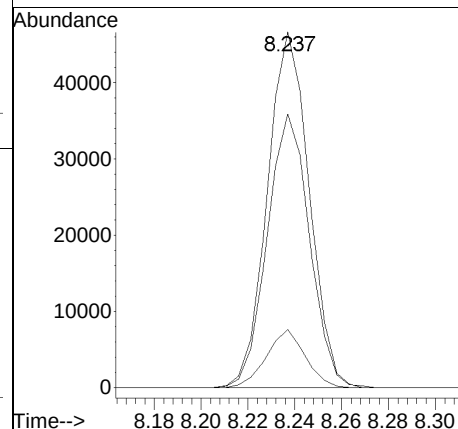
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	37906		
97	122.4		89.8	129.8
85	66.6		44.4	84.4

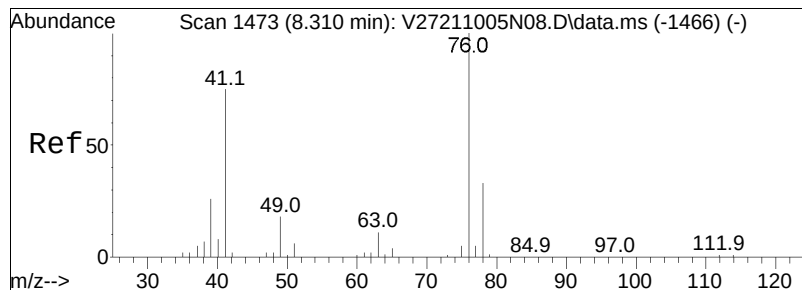




#69
 Chlorodibromomethane
 Concen: 40.46 ug/L
 RT: 8.237 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

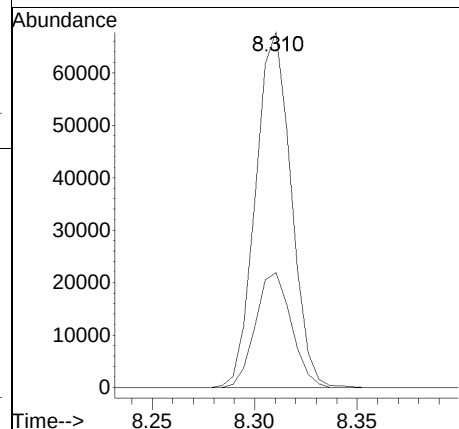
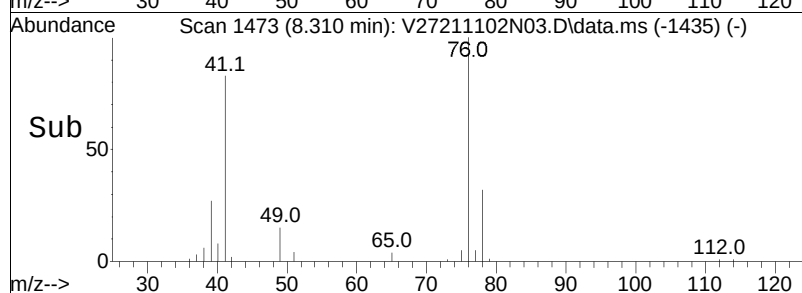
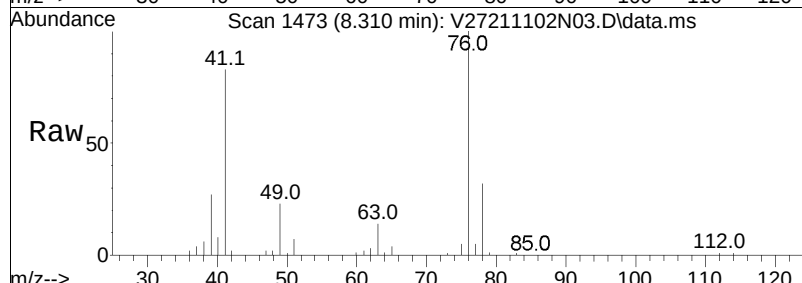
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	57791		
81	15.0		2.9	42.9
127	77.8		57.8	97.8

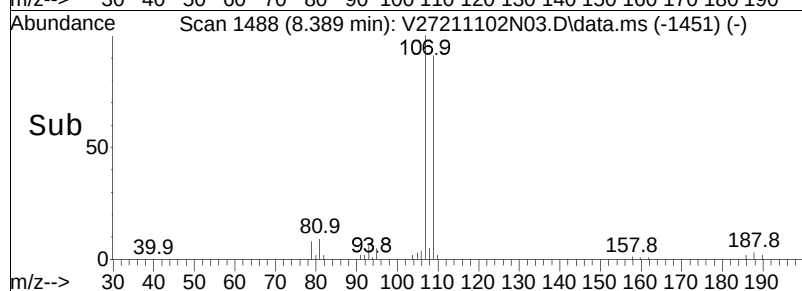
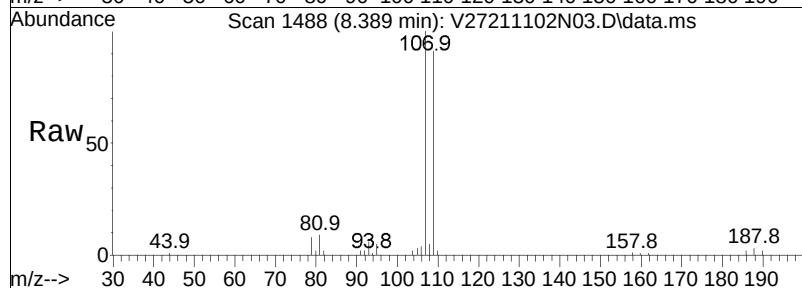
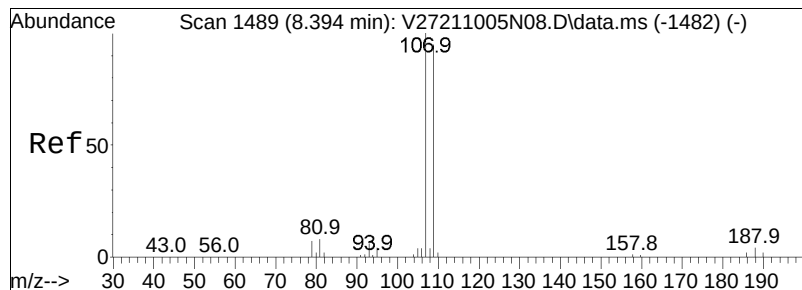




#70
 1,3-Dichloropropane
 Concen: 39.20 ug/L
 RT: 8.310 min Scan# 1473
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

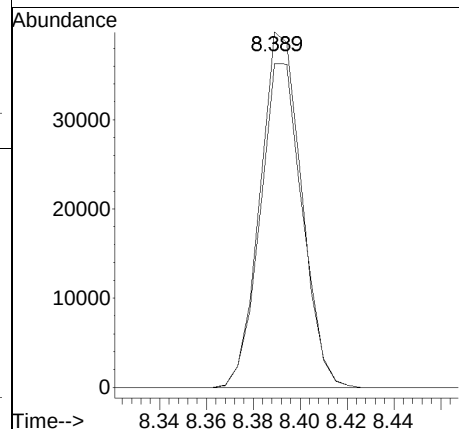
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

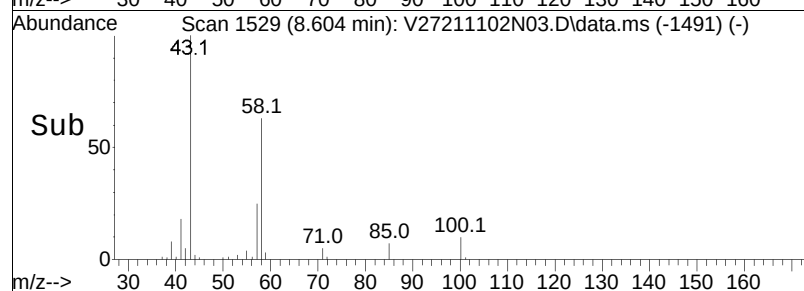
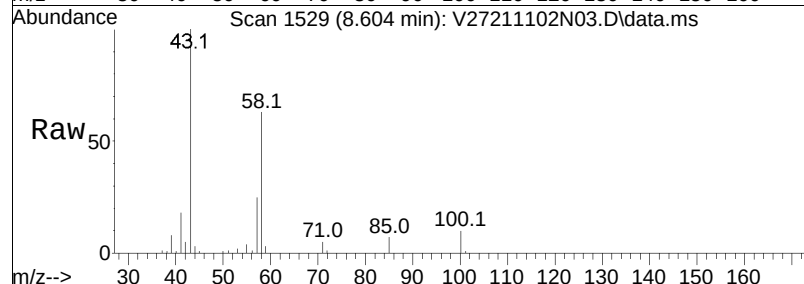
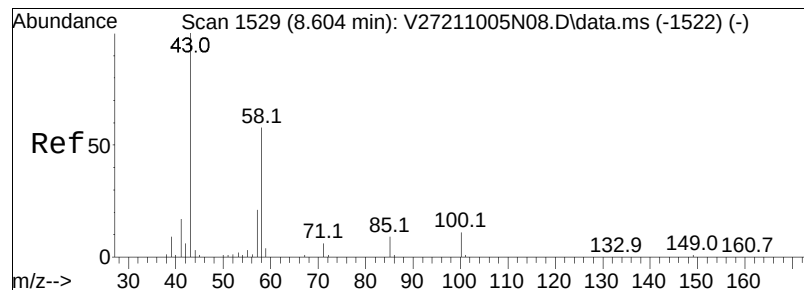




#71
 1,2-Dibromoethane
 Concen: 41.79 ug/L
 RT: 8.389 min Scan# 1488
 Delta R.T. -0.005 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.7	74.3	111.5





#72

2-Hexanone

Concen: 32.55 ug/L

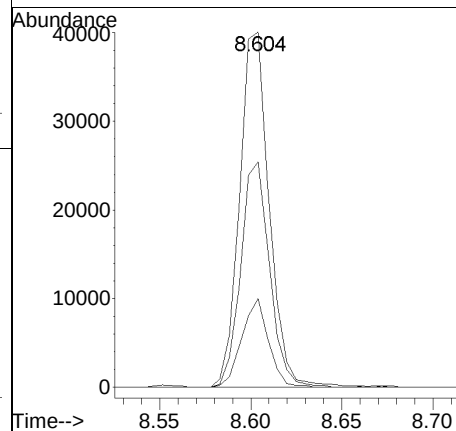
RT: 8.604 min Scan# 1529

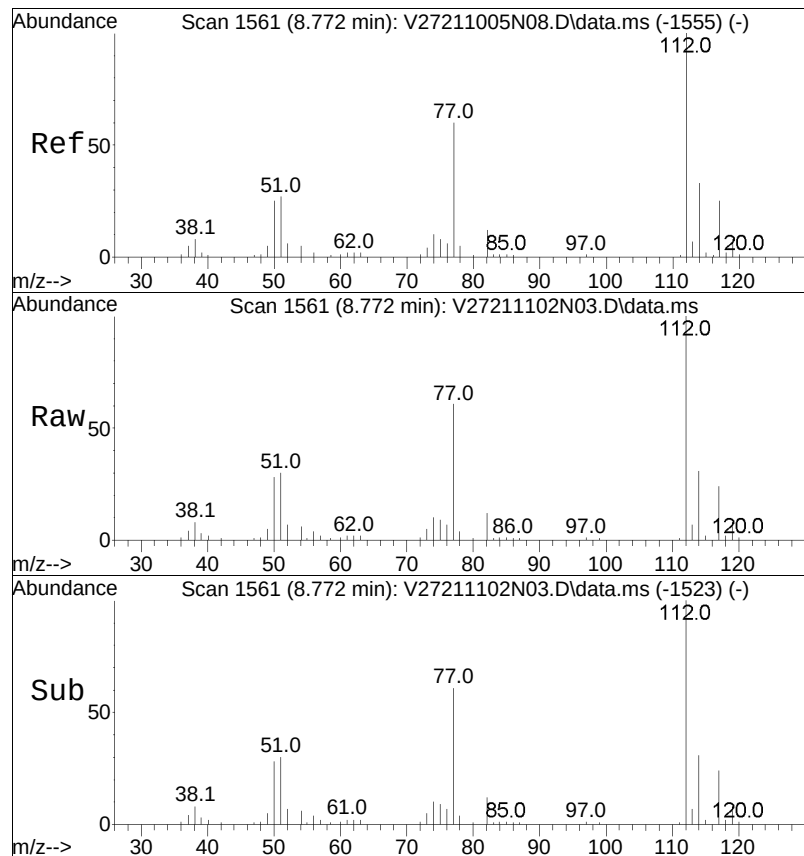
Delta R.T. -0.000 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

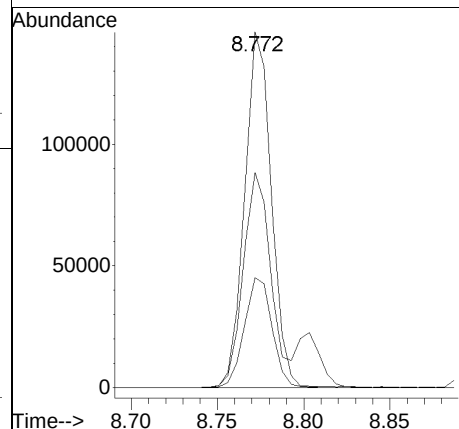
Tgt Ion:	43	Resp:	45557
Ion Ratio	Lower	Upper	
43	100		
58	61.7	41.2	61.8
57	22.6	17.2	25.8

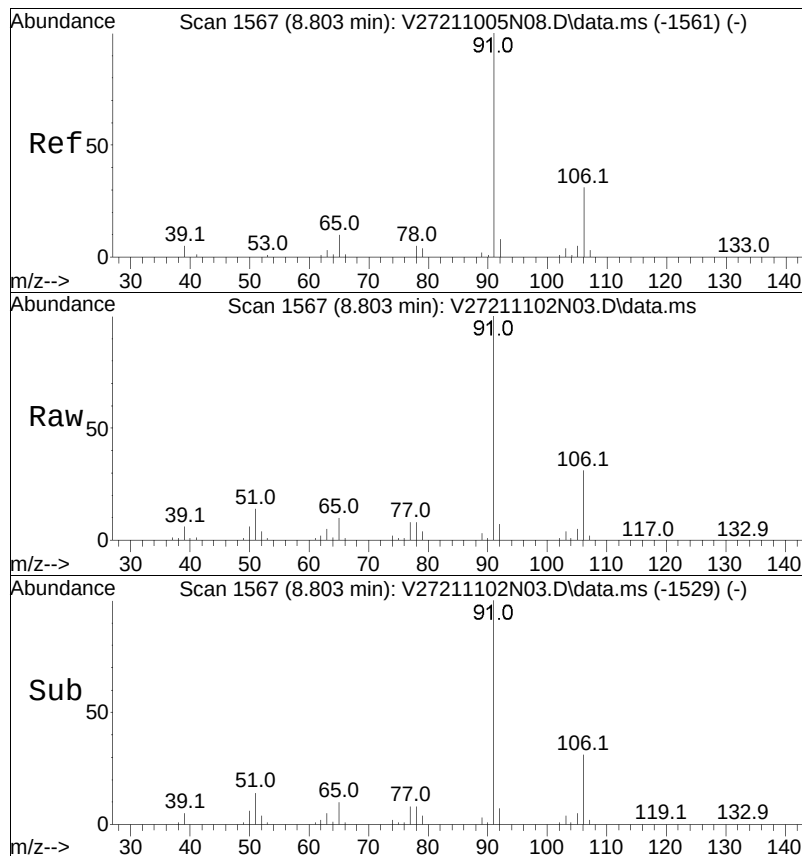




#73
 Chlorobenzene
 Concen: 36.49 ug/L
 RT: 8.772 min Scan# 1561
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

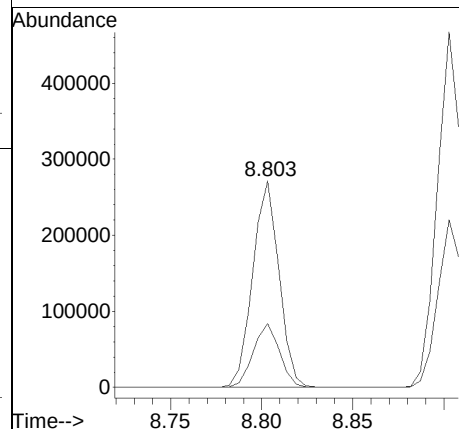
Tgt	Ion:112	Resp:	157503
Ion	Ratio	Lower	Upper
112	100		
77	63.1	55.4	83.0
114	31.9	25.4	38.2

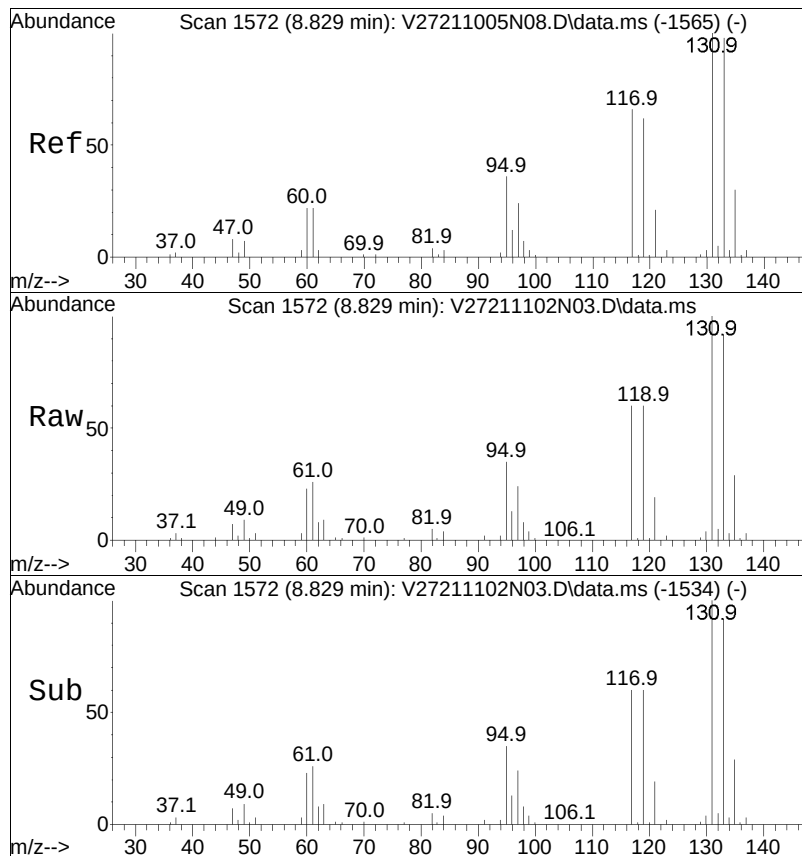




#74
 Ethylbenzene
 Concen: 36.00 ug/L
 RT: 8.803 min Scan# 1567
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

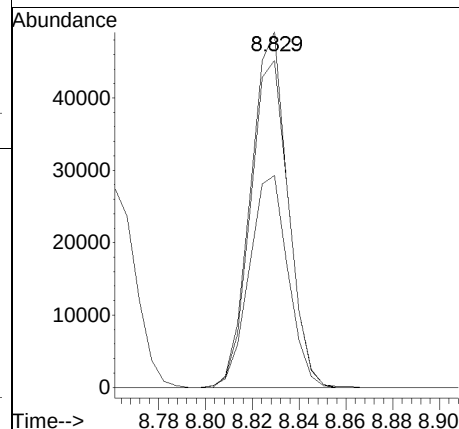
Tgt	Ion	Resp	Lower	Upper
91	100	272802		
106	30.8	24.3	36.5	

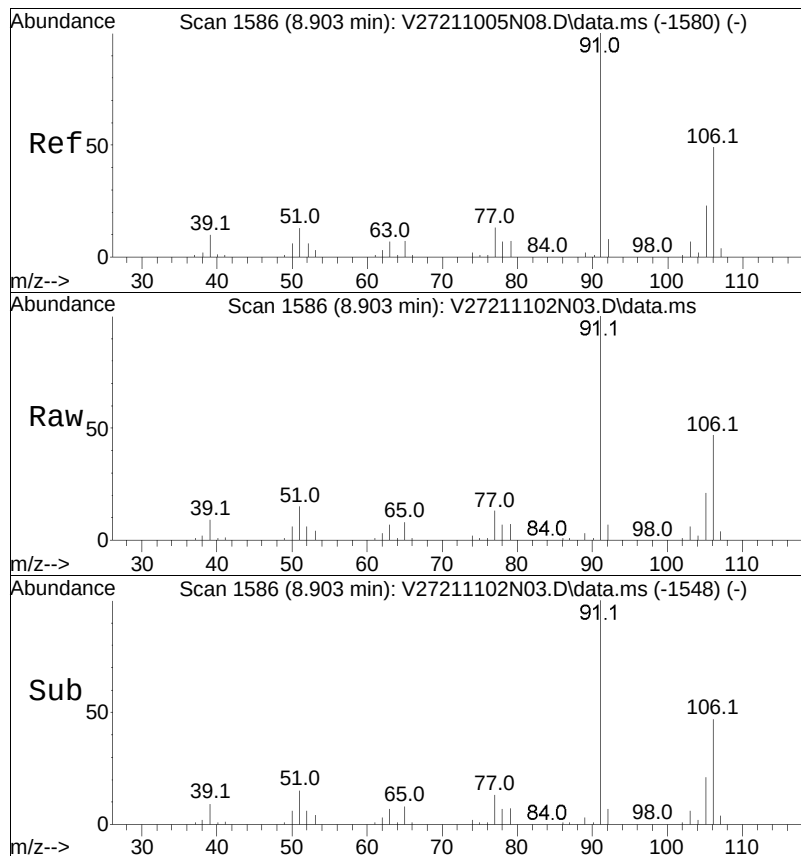




#75
 1,1,1,2-Tetrachloroethane
 Concen: 40.95 ug/L
 RT: 8.829 min Scan# 1572
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

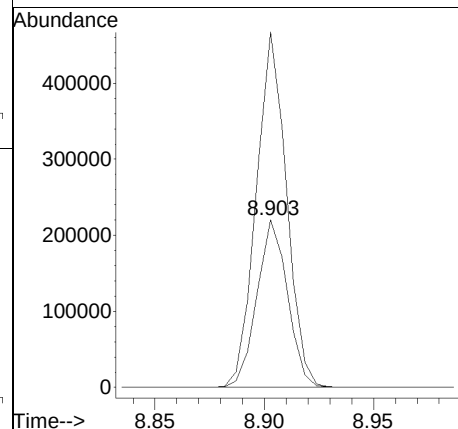
Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.2	81.0	121.0
119	62.1	41.3	81.3

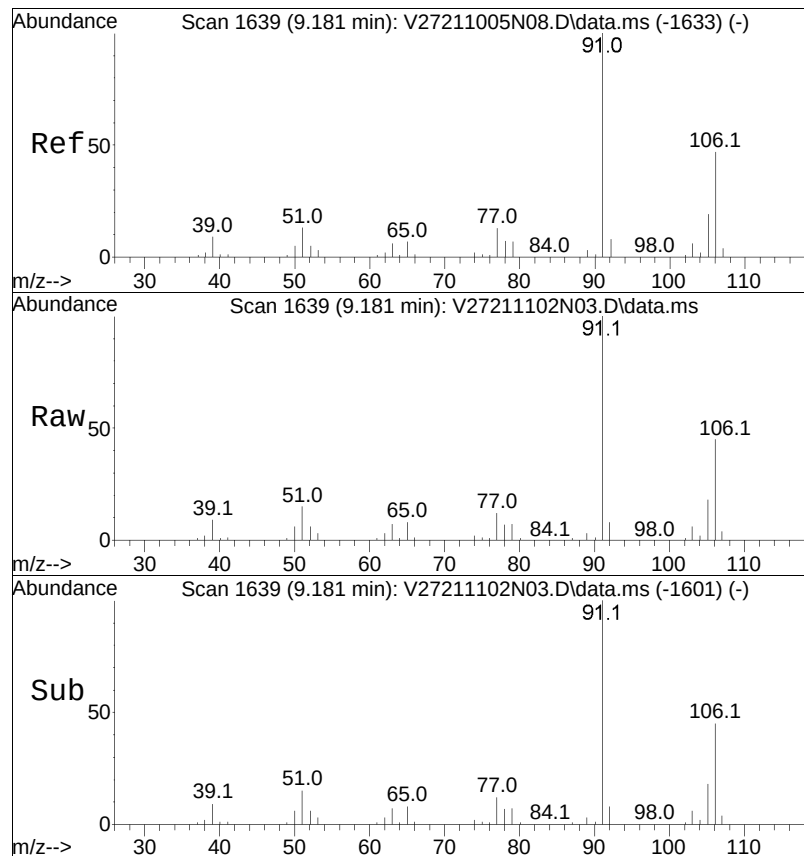




#76
 p/m Xylene
 Concen: 68.69 ug/L
 RT: 8.903 min Scan# 1586
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

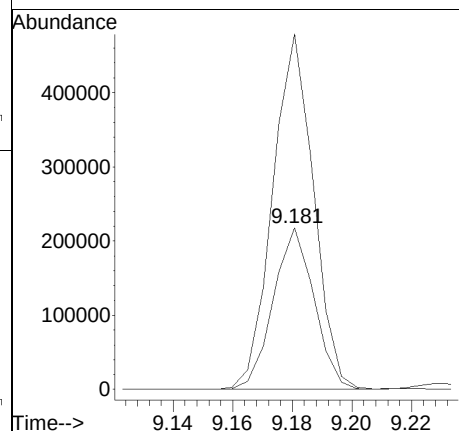
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	210.2	166.4	249.6	

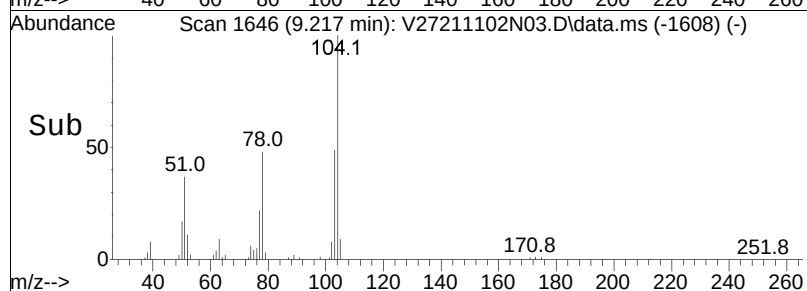
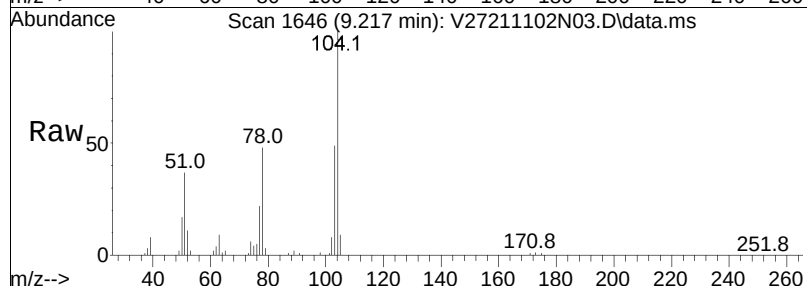
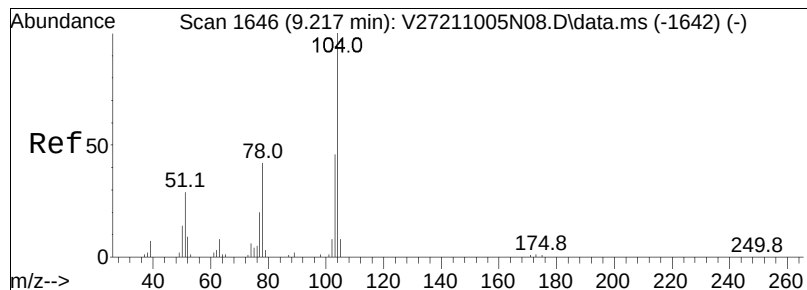




#77
 o Xylene
 Concen: 68.82 ug/L
 RT: 9.181 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	220.7	182.6	273.8	





#78

Styrene

Concen: 67.33 ug/L

RT: 9.217 min Scan# 1646

Delta R.T. 0.000 min

Lab File: V27211102N03.D

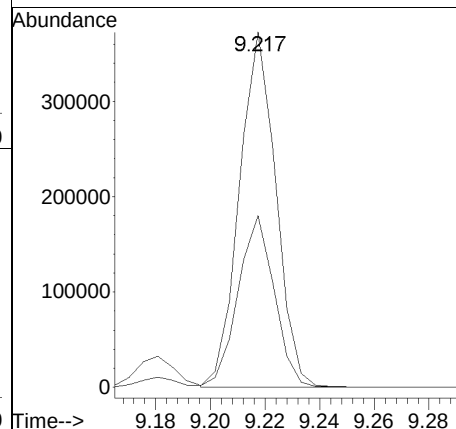
Acq: 02 Nov 2021 04:59 pm

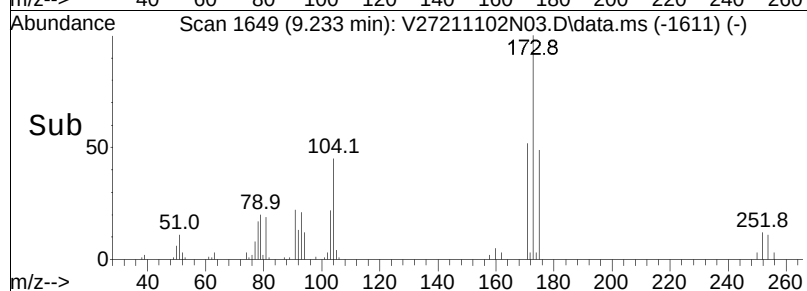
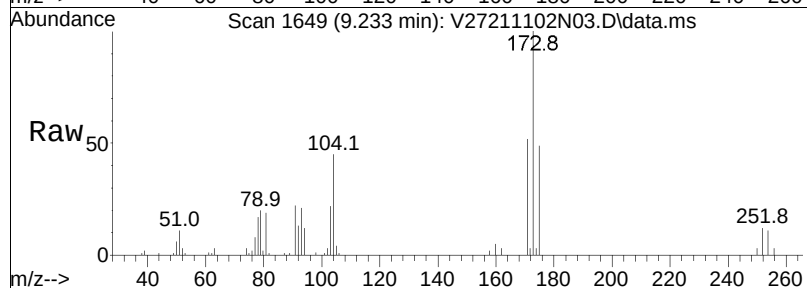
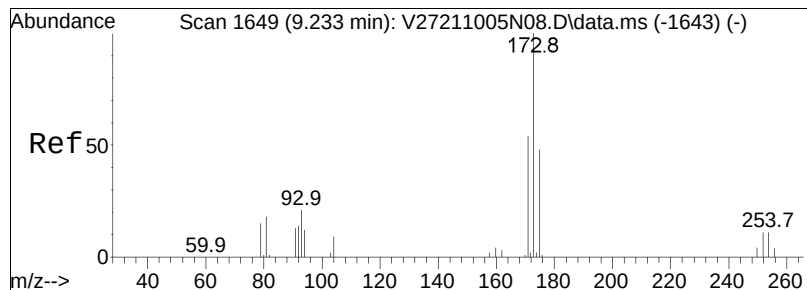
Tgt Ion:104 Resp: 346283

Ion Ratio Lower Upper

104 100

78 48.1 39.8 59.6





#80

Bromoform

Concen: 40.56 ug/L

RT: 9.233 min Scan# 1649

Delta R.T. 0.000 min

Lab File: V27211102N03.D

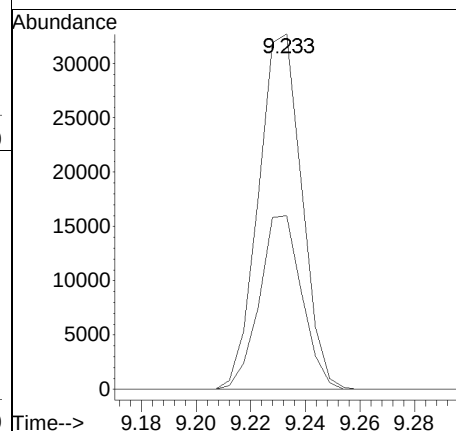
Acq: 02 Nov 2021 04:59 pm

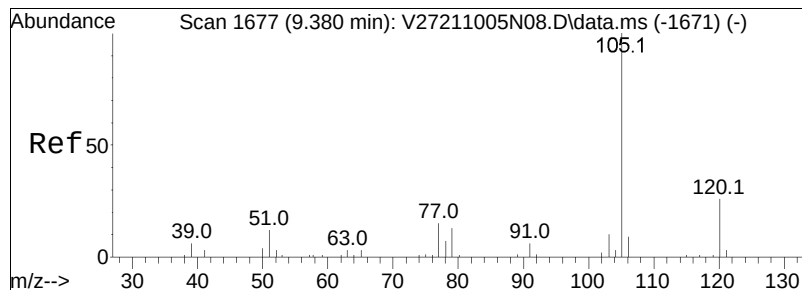
Tgt Ion:173 Resp: 36045

Ion Ratio Lower Upper

173 100

175 48.0 31.5 71.5





#82

Isopropylbenzene

Concen: 37.21 ug/L

RT: 9.380 min Scan# 1677

Delta R.T. -0.000 min

Lab File: V27211102N03.D

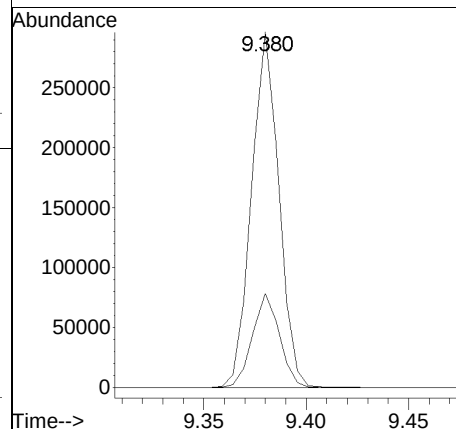
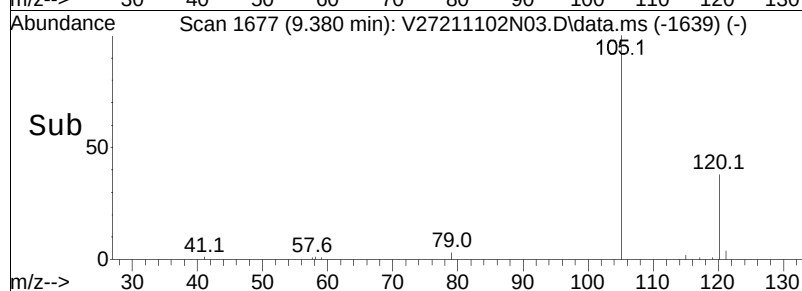
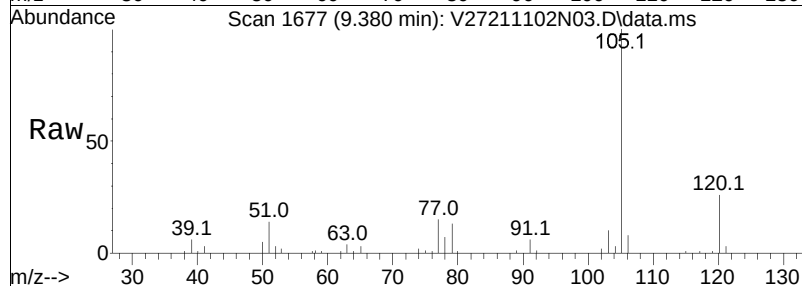
Acq: 02 Nov 2021 04:59 pm

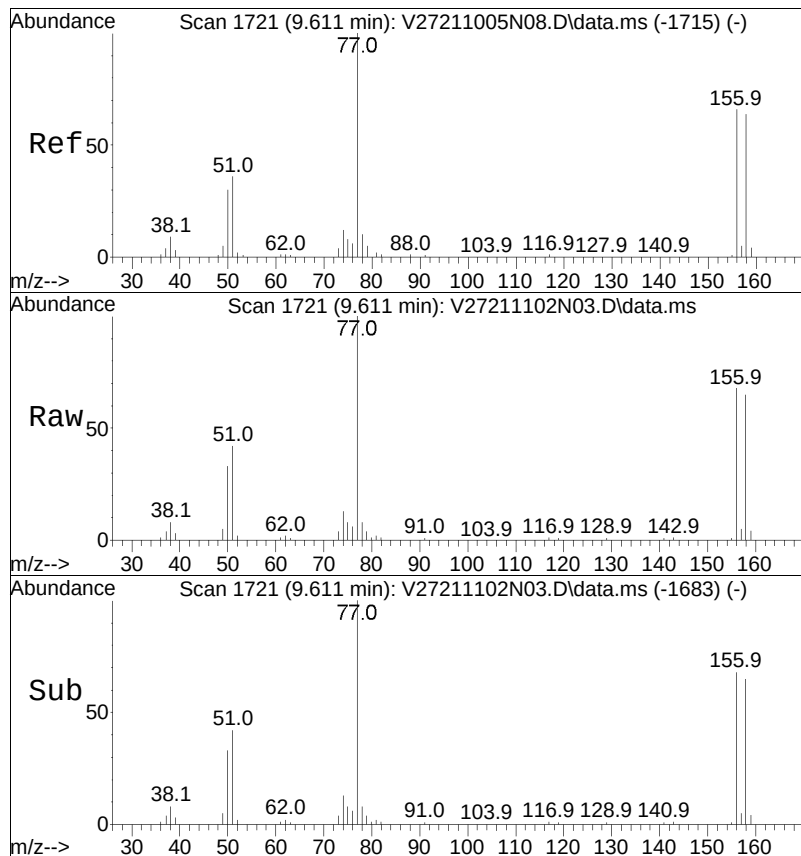
Tgt Ion:105 Resp: 274697

Ion Ratio Lower Upper

105 100

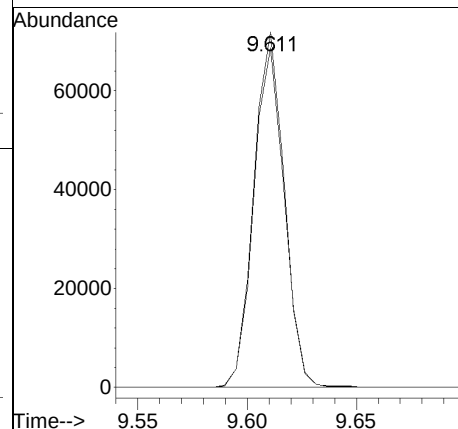
120 26.0 4.8 44.8

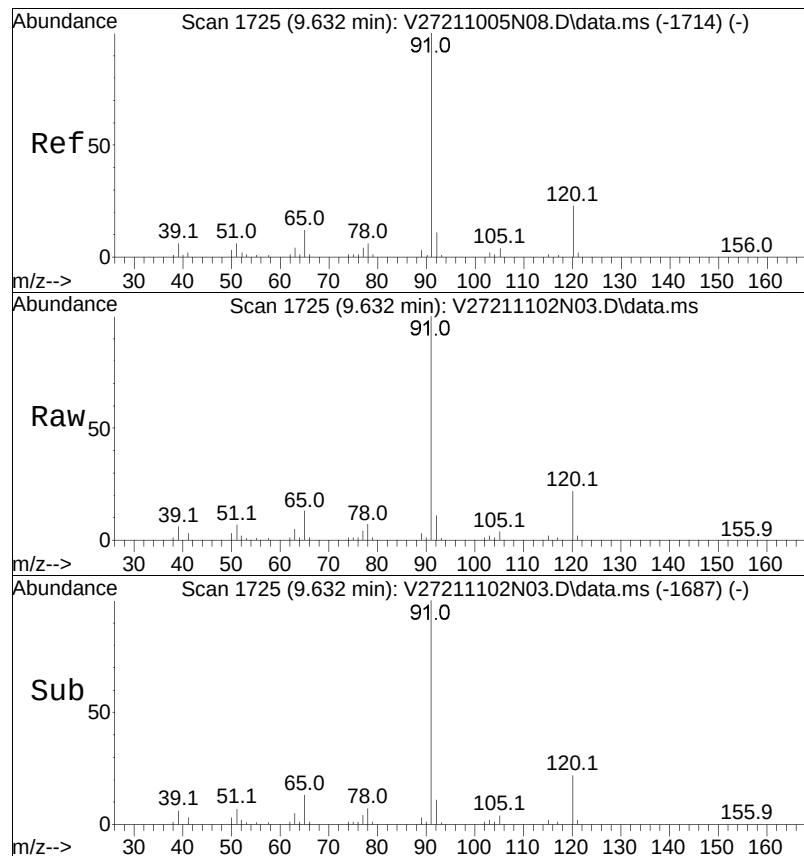




#84
 Bromobenzene
 Concen: 38.73 ug/L
 RT: 9.611 min Scan# 1721
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

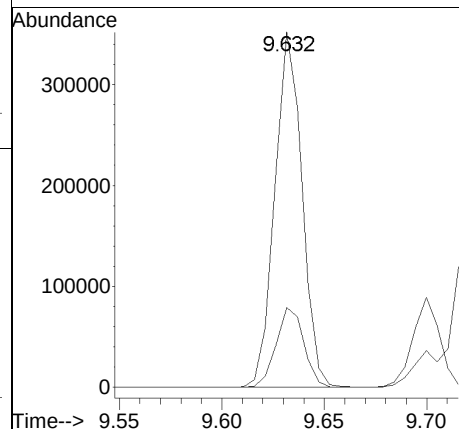
Tgt Ion	Ratio	Lower	Upper
156	100		
158	95.9	75.9	113.9

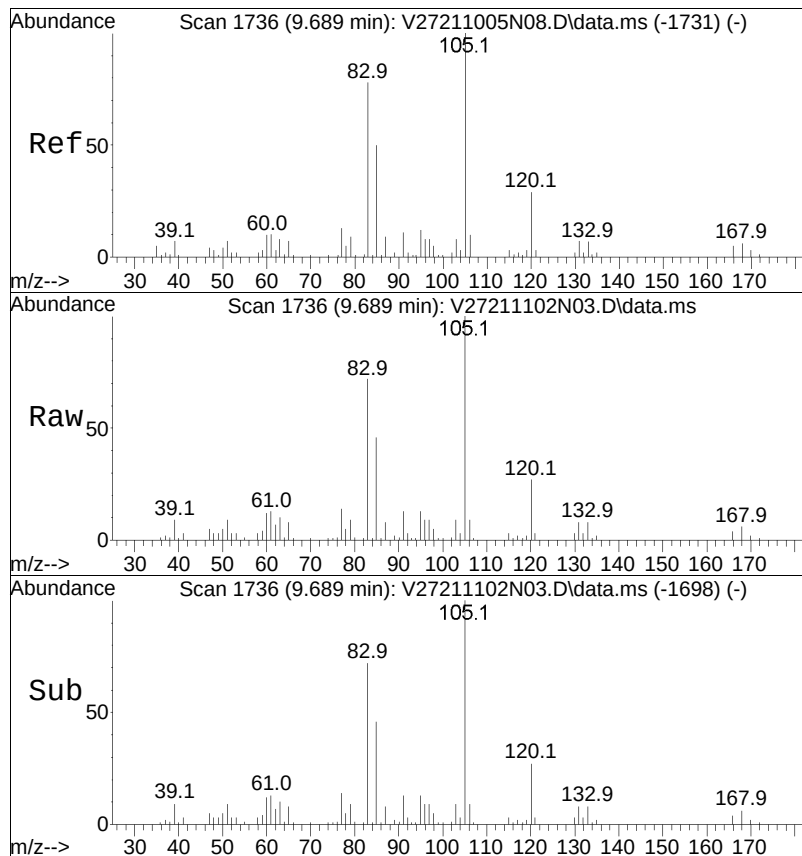




#85
 n-Propylbenzene
 Concen: 36.43 ug/L
 RT: 9.632 min Scan# 1725
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

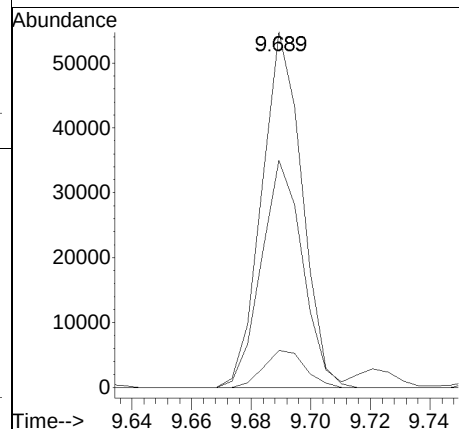
Tgt	Ion	Resp	325527
Ion	Ratio	Lower	Upper
91	100		
120	22.9	17.0	25.6

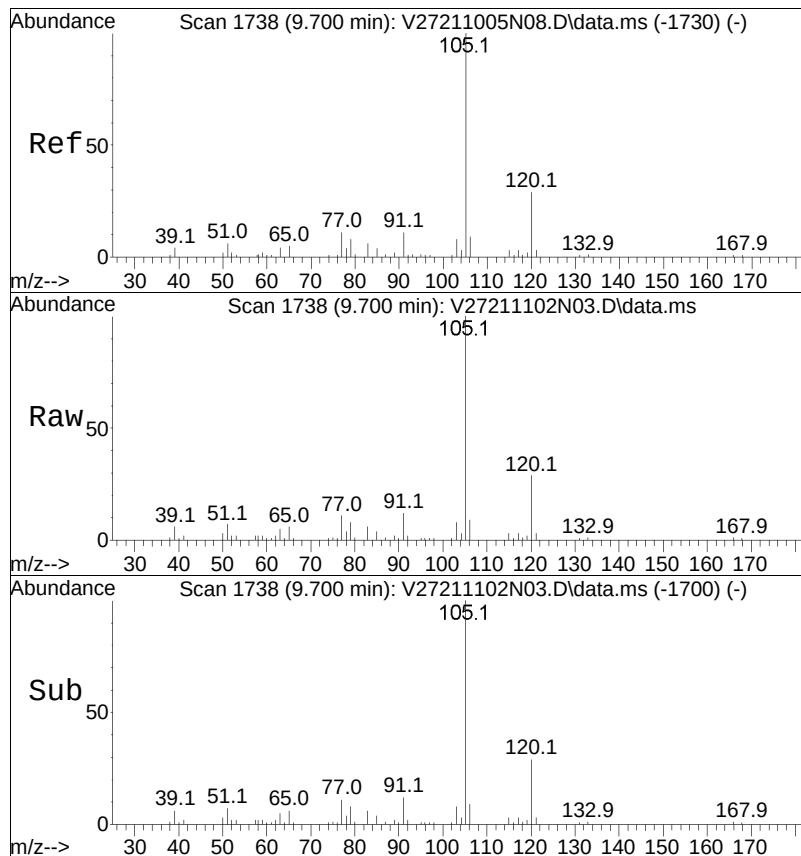




#87
 1,1,2,2-Tetrachloroethane
 Concen: 32.58 ug/L
 RT: 9.689 min Scan# 1736
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

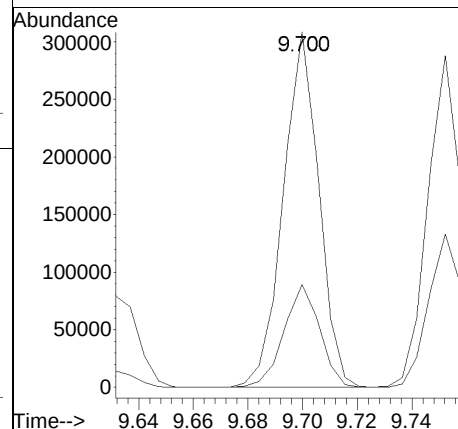
Tgt Ion:	83	Resp:	51394
Ion Ratio	Lower	Upper	
83	100		
131	10.7	0.0	30.4
85	65.8	45.4	85.4

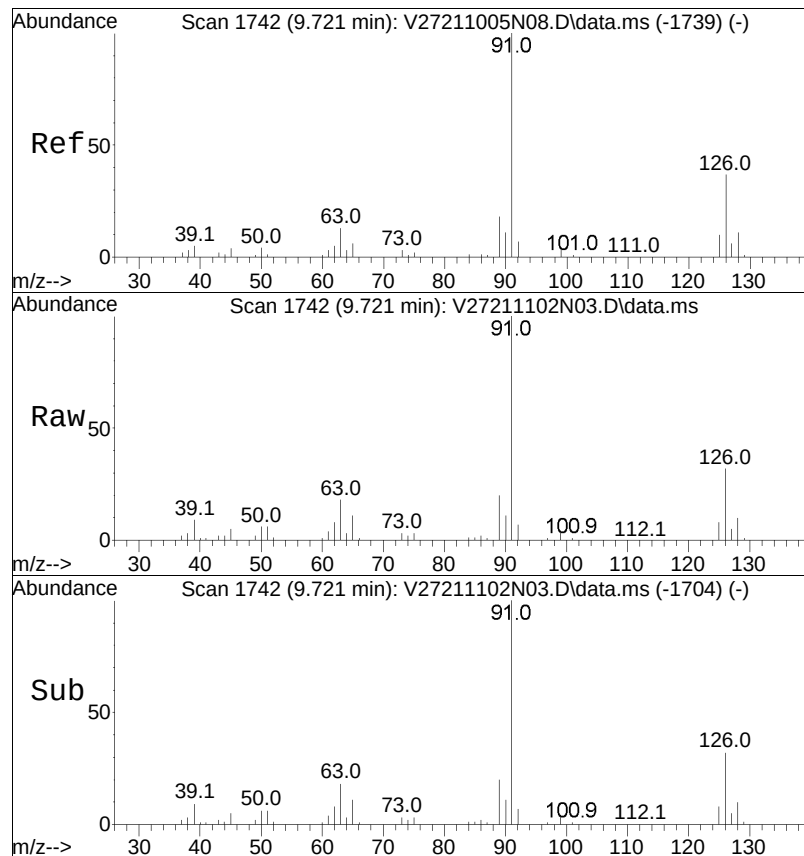




#88
 4-Ethyltoluene
 Concen: 36.57 ug/L
 RT: 9.700 min Scan# 1738
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

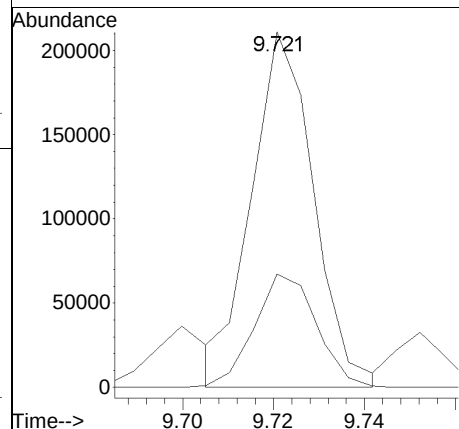
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.1	18.1	37.7

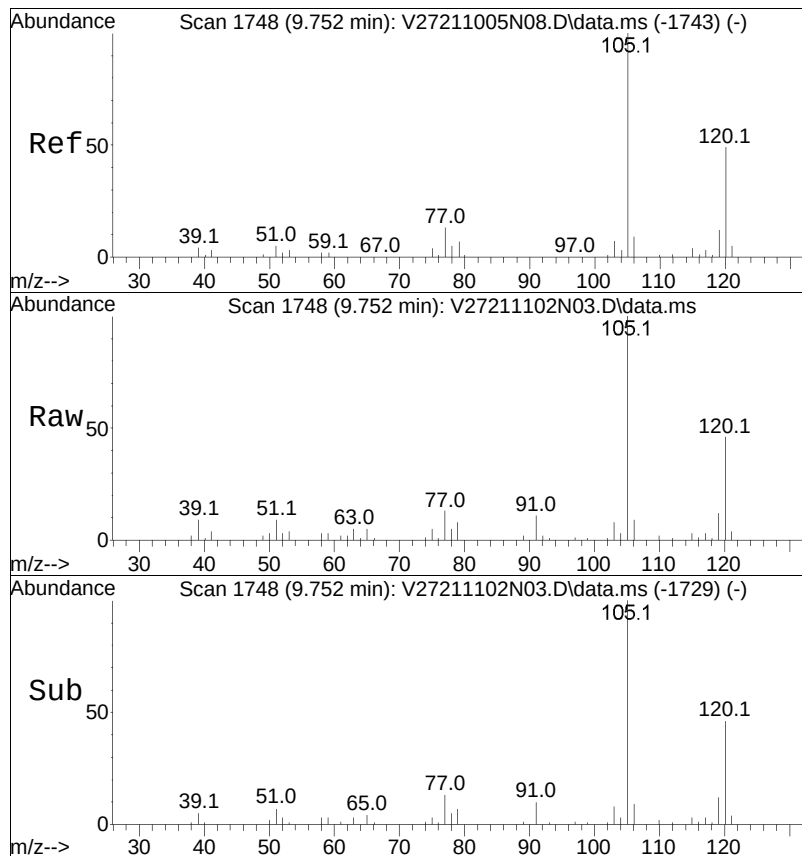




#89
 2-Chlorotoluene
 Concen: 36.24 ug/L M6
 RT: 9.721 min Scan# 1742
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

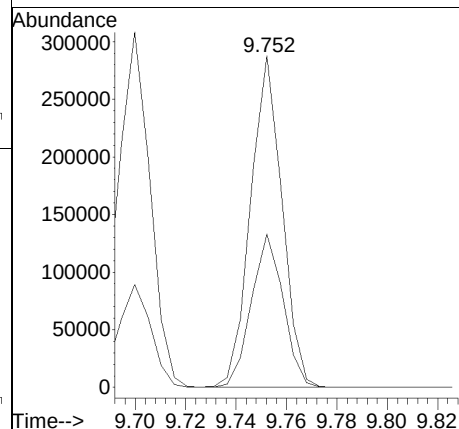
Tgt	Ion	Resp	Lower	Upper
91	100	199976		
126	32.1	21.5	32.3	

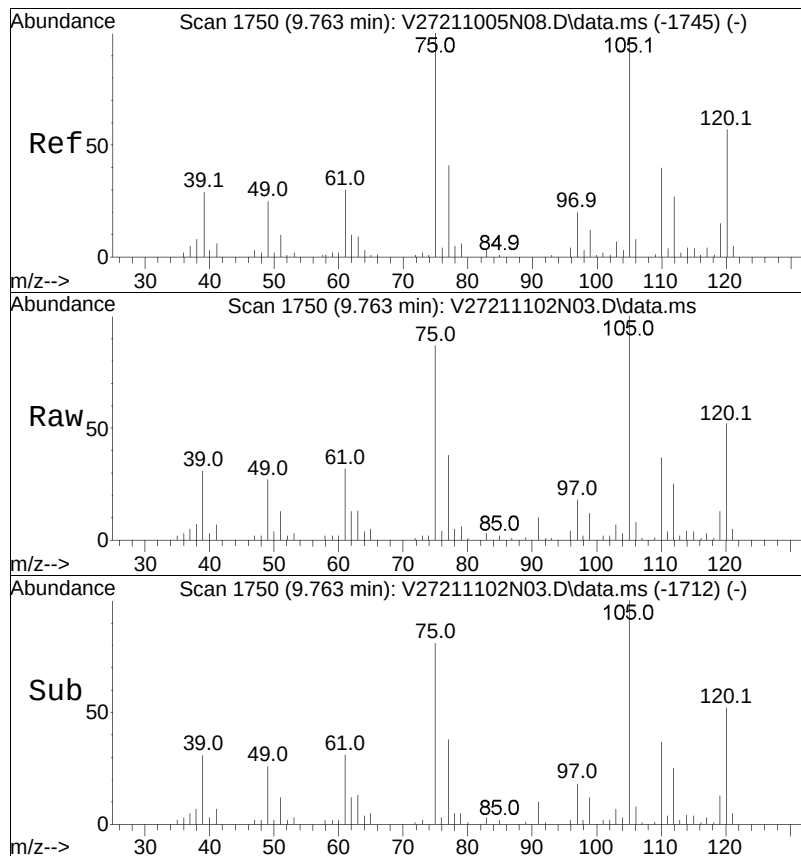




#90
 1,3,5-Trimethylbenzene
 Concen: 37.12 ug/L
 RT: 9.752 min Scan# 1748
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

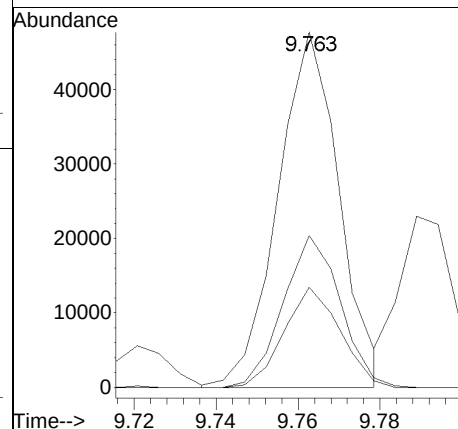
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	34.8	52.2

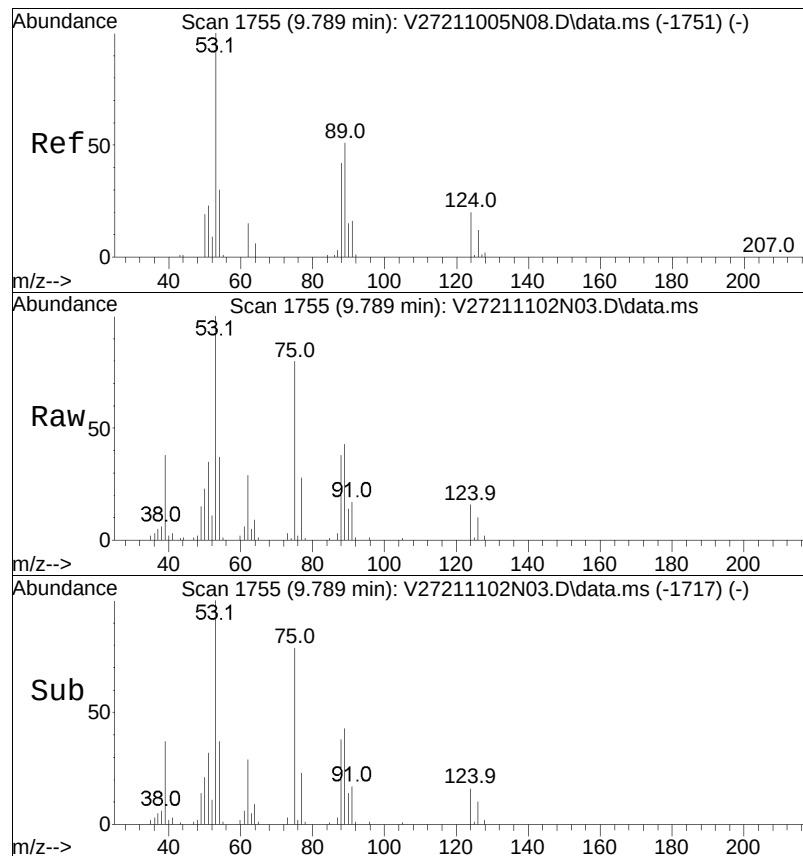




#91
 1,2,3-Trichloropropane
 Concen: 38.47 ug/L
 RT: 9.763 min Scan# 1750
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

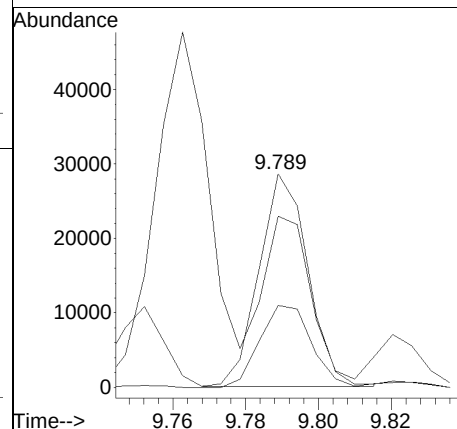
Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.9	25.4	52.8
112	25.9	15.6	32.4

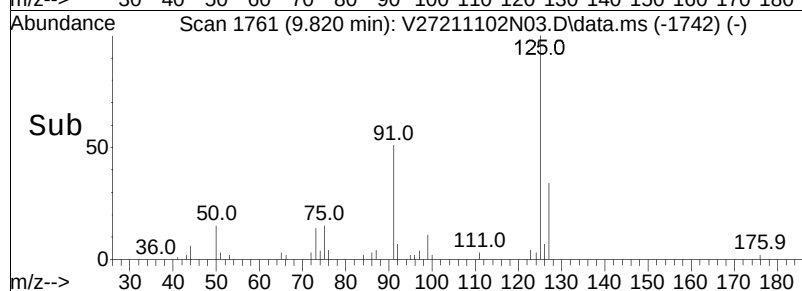
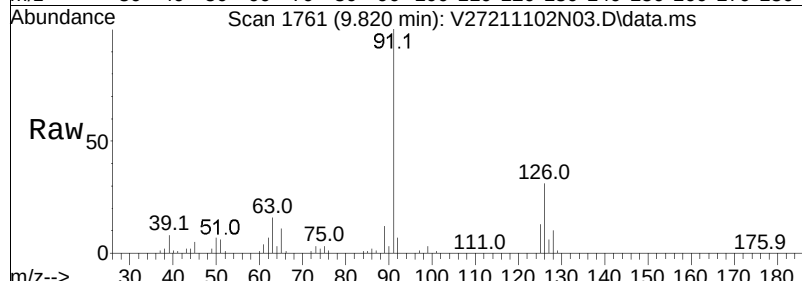
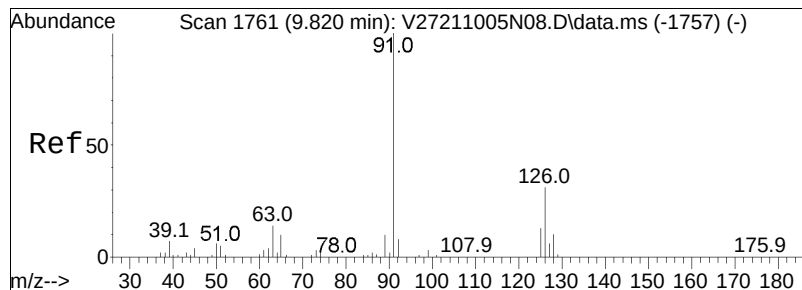




#92
 trans-1,4-Dichloro-2-butene
 Concen: 43.80 ug/L
 RT: 9.789 min Scan# 1755
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

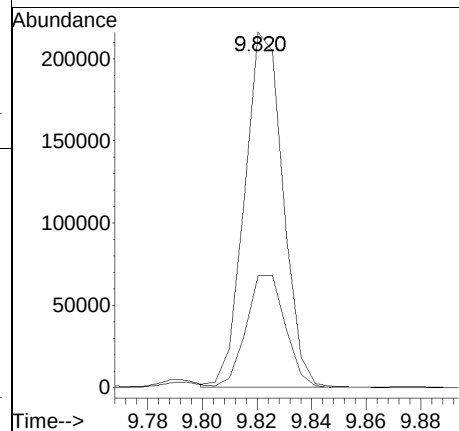
Tgt Ion	Ratio	Lower	Upper
53	100		
88	41.1	39.6	59.4
75	79.3	70.2	105.4

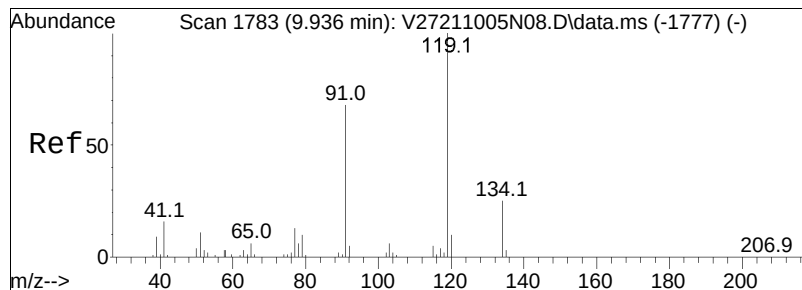




#93
 4-Chlorotoluene
 Concen: 36.70 ug/L
 RT: 9.820 min Scan# 1761
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	24.6	36.8





#94

tert-Butylbenzene

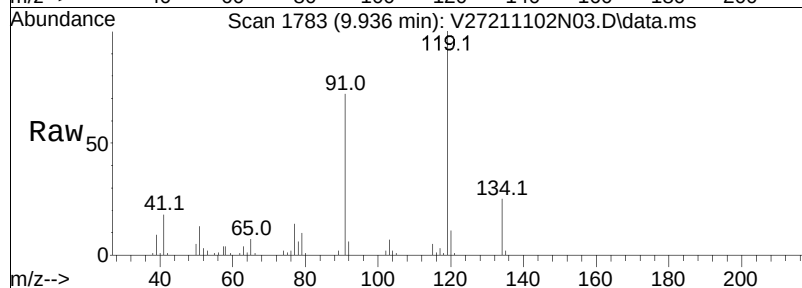
Concen: 37.27 ug/L

RT: 9.936 min Scan# 1783

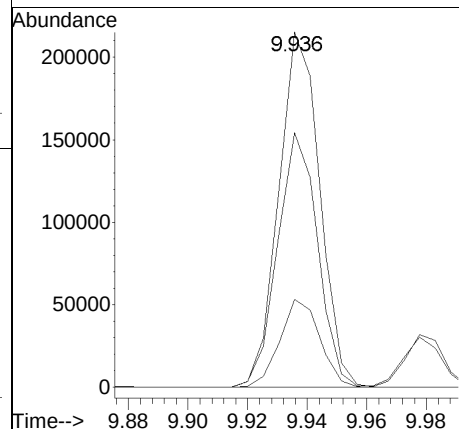
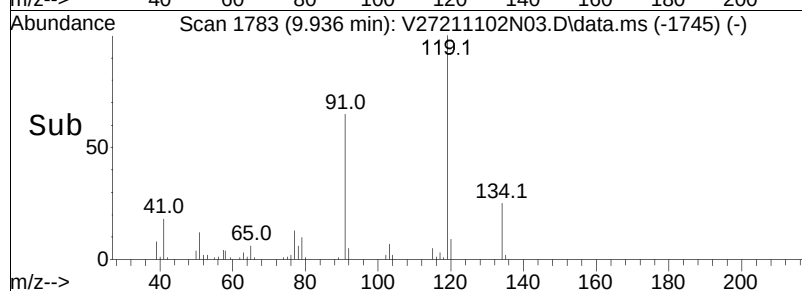
Delta R.T. -0.000 min

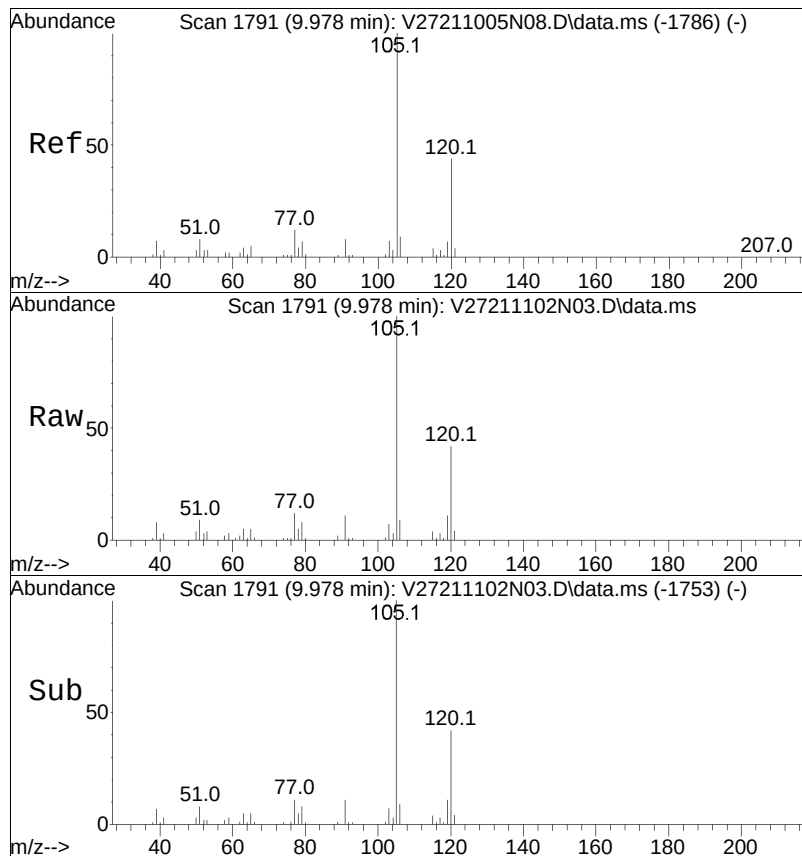
Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm



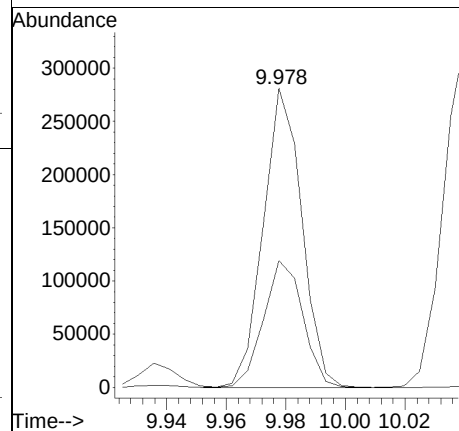
Tgt	Ion:119	Resp:	205851
Ion	Ratio	Lower	Upper
119	100		
91	70.3	51.4	77.2
134	24.2	18.3	27.5

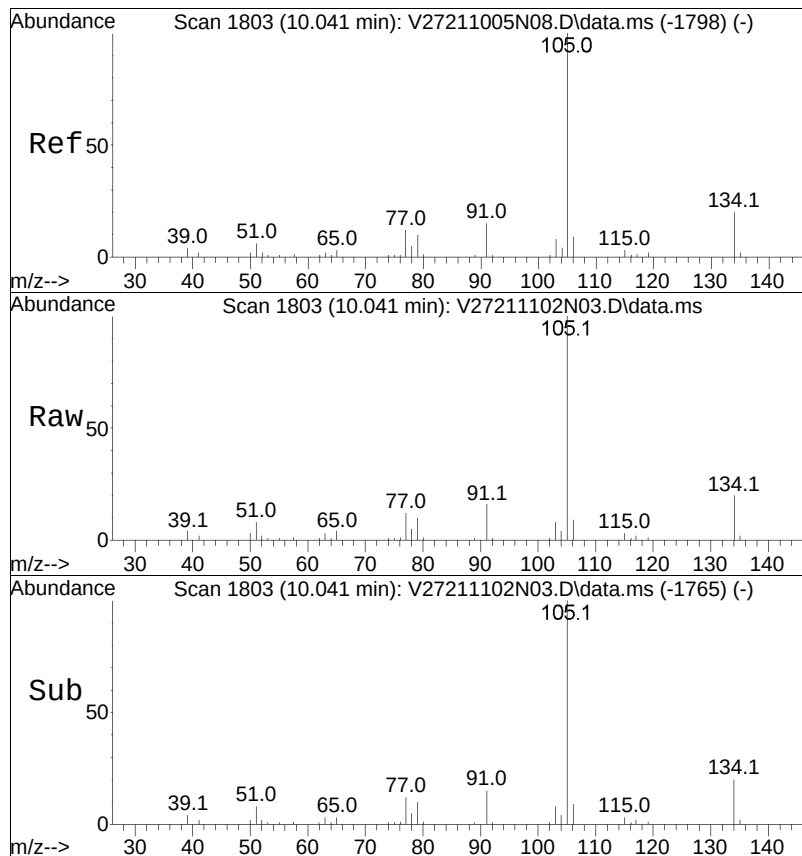




#97
 1,2,4-Trimethylbenzene
 Concen: 37.38 ug/L
 RT: 9.978 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

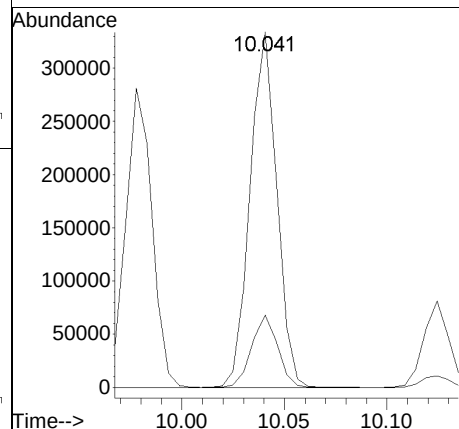
Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.3	33.4	50.0

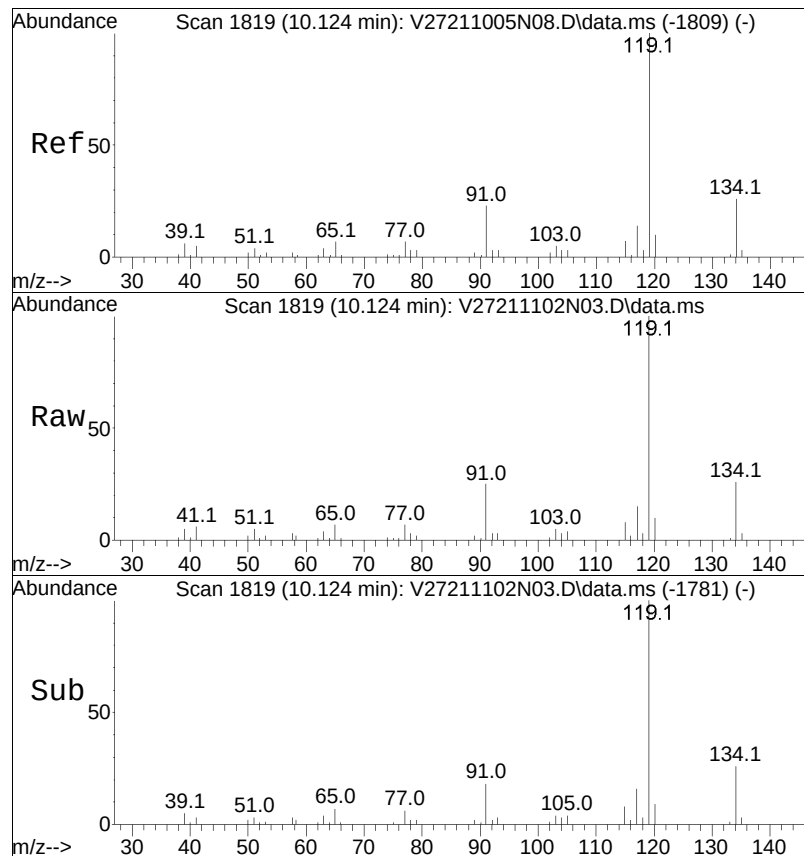




#98
 sec-Butylbenzene
 Concen: 36.73 ug/L
 RT: 10.041 min Scan# 1803
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

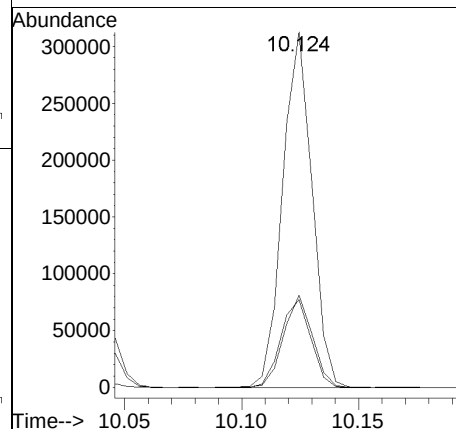
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	19.7	12.5	26.1	

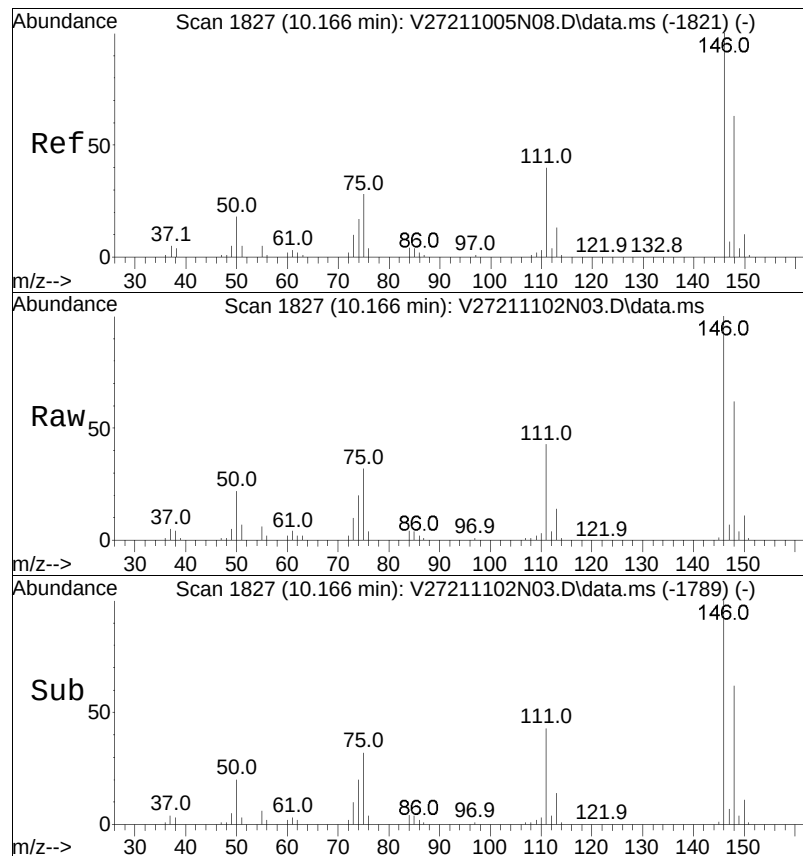




#99
 p-Isopropyltoluene
 Concen: 37.48 ug/L
 RT: 10.124 min Scan# 1819
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

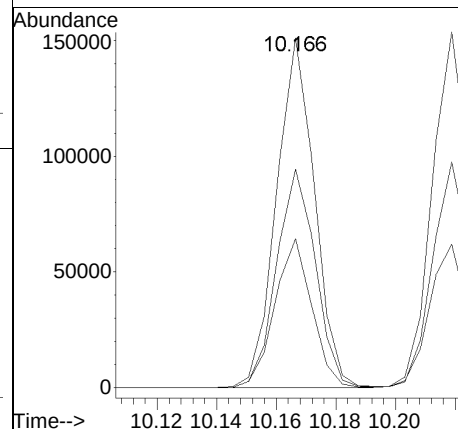
Tgt	Ion	Ratio	Resp	Lower	Upper
119	100		272321		
134	25.5	16.1	33.3		
91	25.4	17.3	35.9		

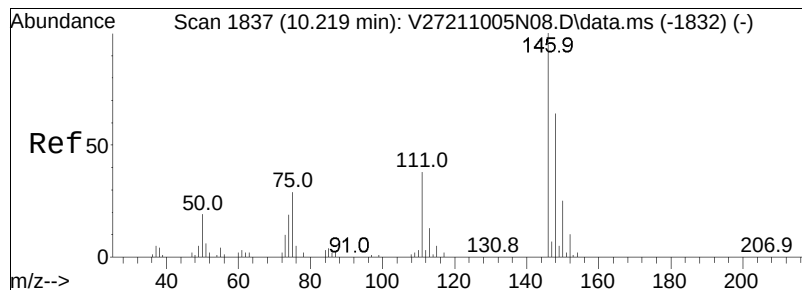




#100
 1,3-Dichlorobenzene
 Concen: 36.73 ug/L
 RT: 10.166 min Scan# 1827
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

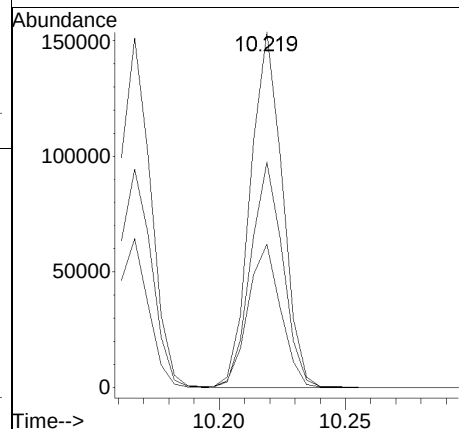
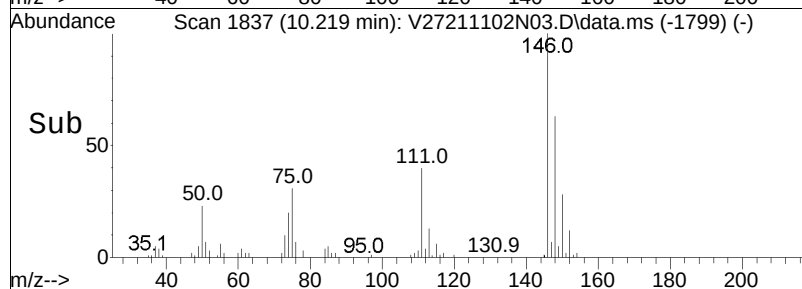
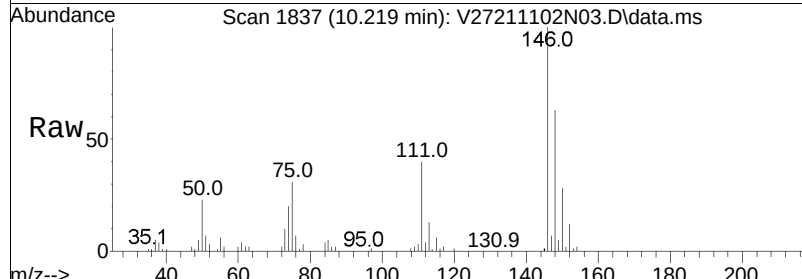
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.5	57.1
148	63.8	41.9	86.9

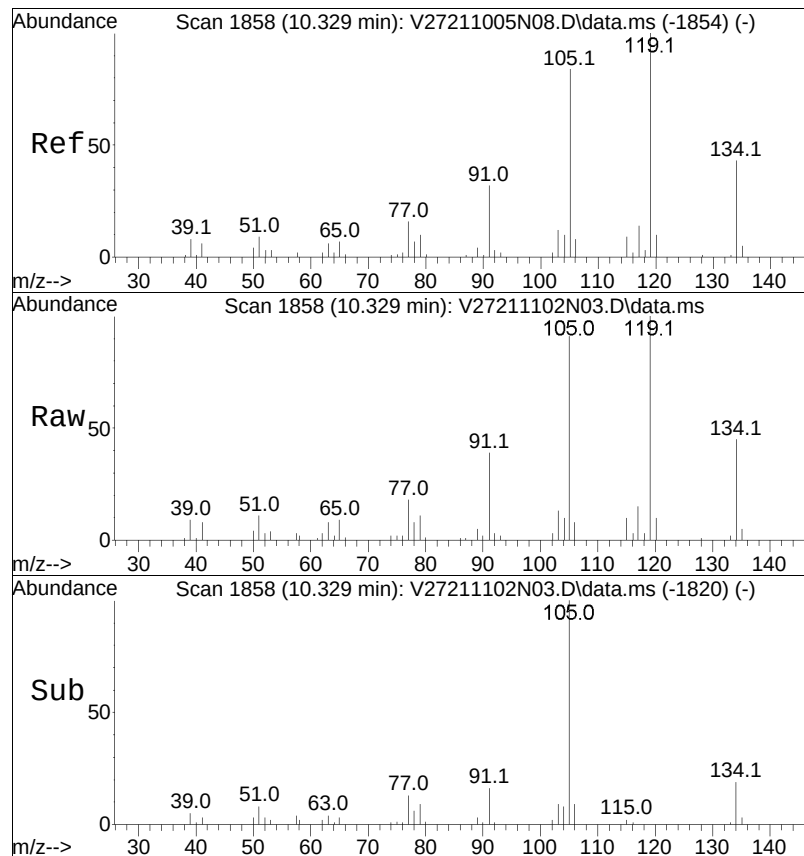




#101
 1,4-Dichlorobenzene
 Concen: 36.92 ug/L
 RT: 10.219 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

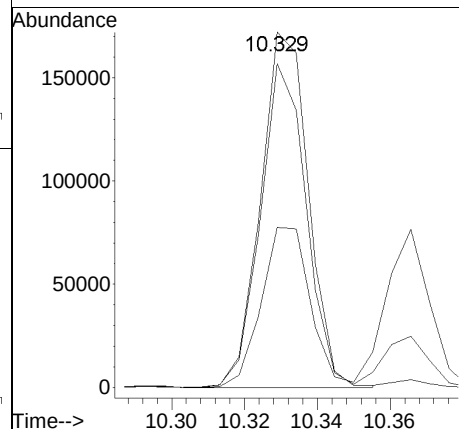
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	136228		
111	41.2	32.3	48.5	
148	63.5	49.9	74.9	

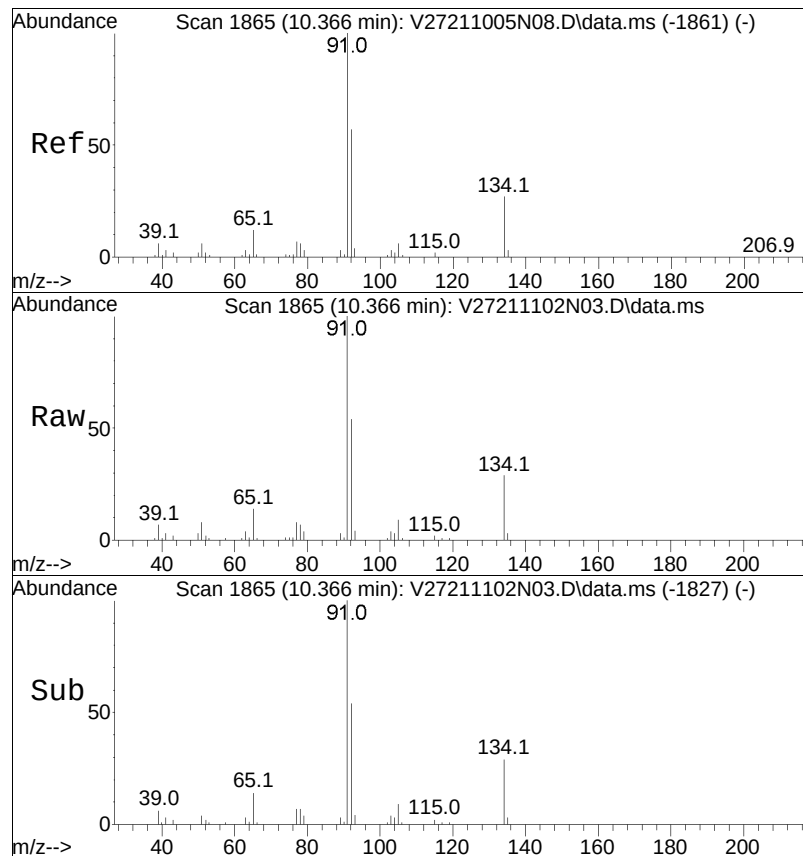




#102
 p-Diethylbenzene
 Concen: 36.06 ug/L
 RT: 10.329 min Scan# 1858
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

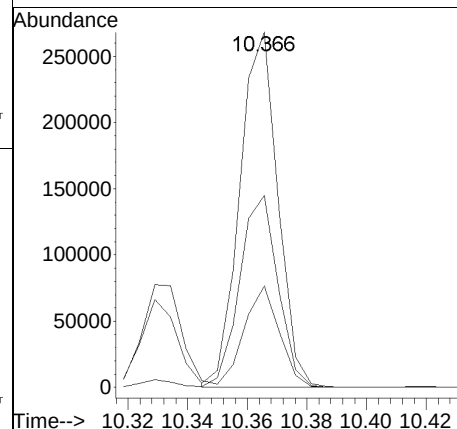
Tgt Ion	Ratio	Lower	Upper
119	100		
105	87.1	59.5	123.7
134	46.4	30.2	62.6

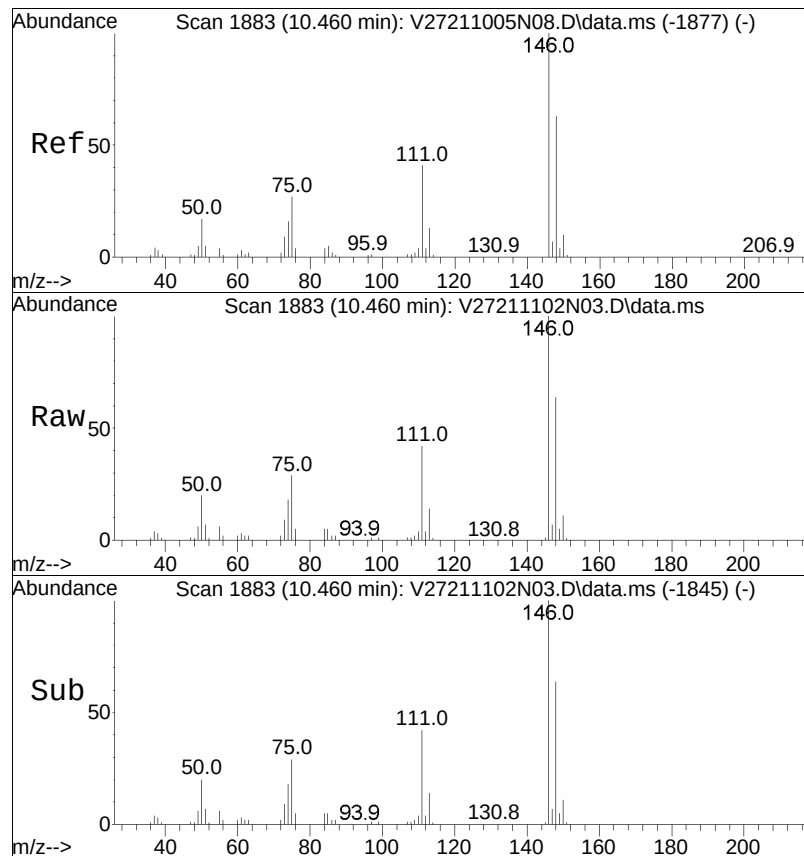




#103
 n-Butylbenzene
 Concen: 37.51 ug/L
 RT: 10.366 min Scan# 1865
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

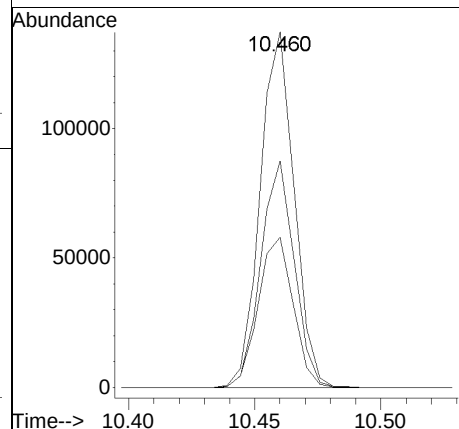
Tgt	Ion: 91	Resp:	237614
Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.0	64.4
134	26.5	19.6	29.4

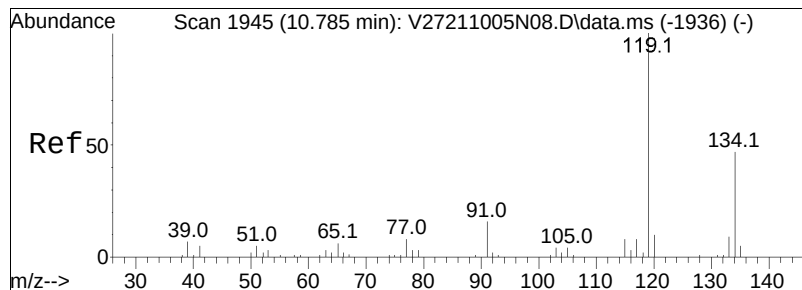




#104
 1,2-Dichlorobenzene
 Concen: 36.76 ug/L
 RT: 10.460 min Scan# 1883
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

Tgt	Ion:146	Resp:	128468
Ion	Ratio	Lower	Upper
146	100		
111	43.5	28.3	58.7
148	62.8	42.3	87.8





#105

1,2,4,5-Tetramethylbenzene

Concen: 36.52 ug/L

RT: 10.785 min Scan# 1945

Delta R.T. 0.000 min

Lab File: V27211102N03.D

Acq: 02 Nov 2021 04:59 pm

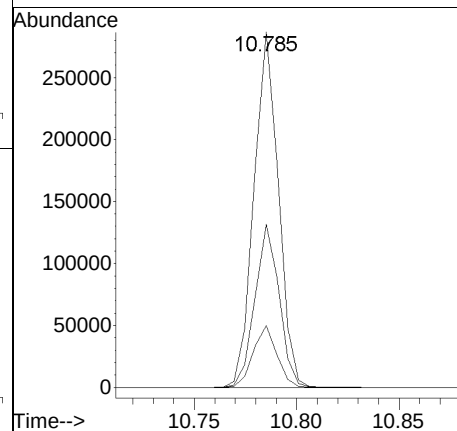
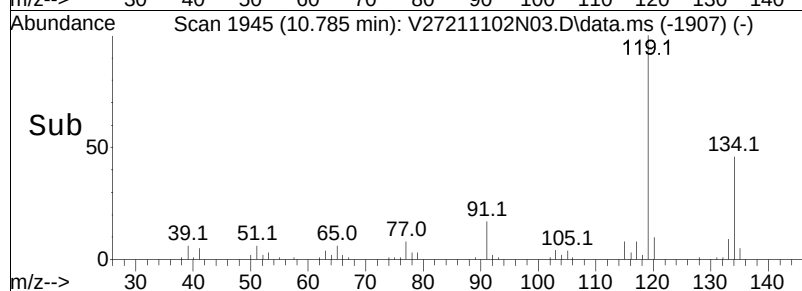
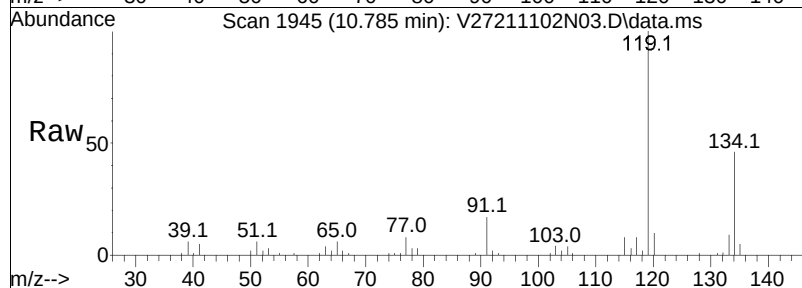
Tgt Ion:119 Resp: 238359

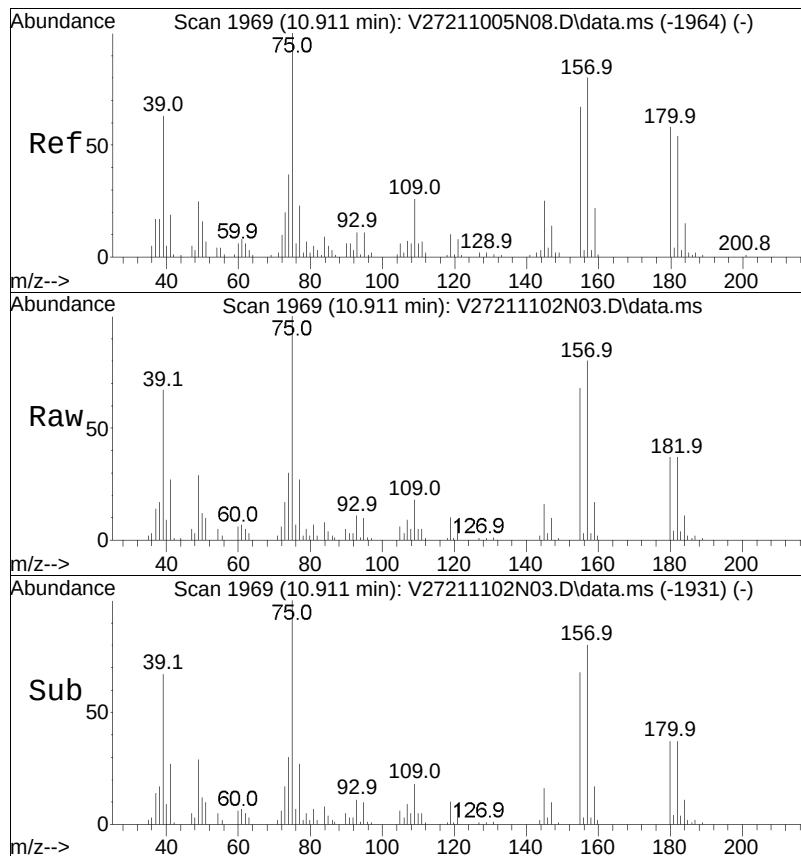
Ion Ratio Lower Upper

119 100

134 45.3 30.5 63.3

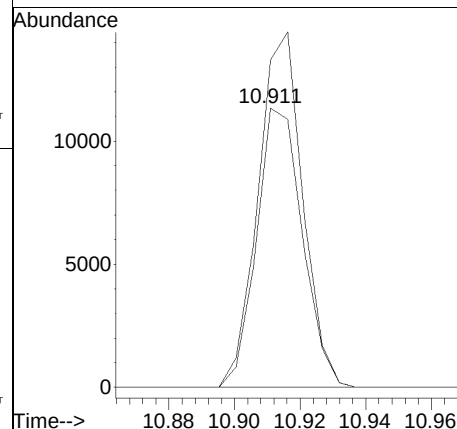
91 16.8 12.4 25.7

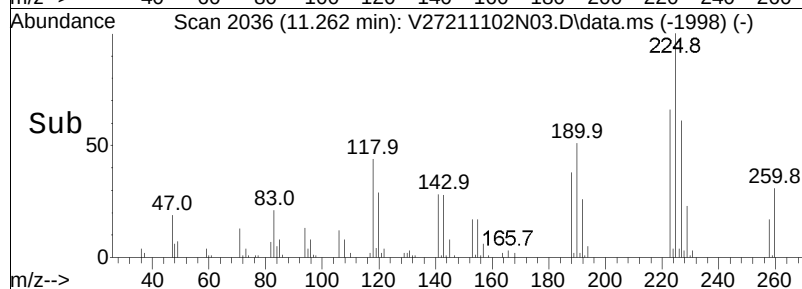
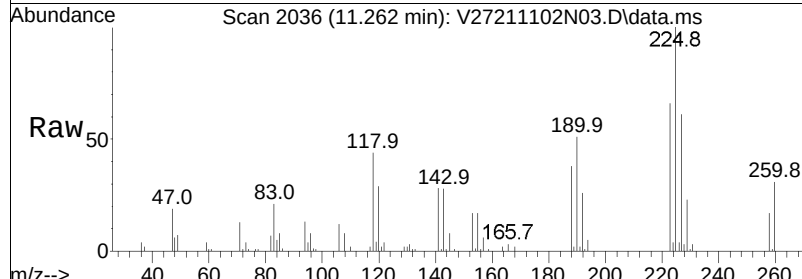
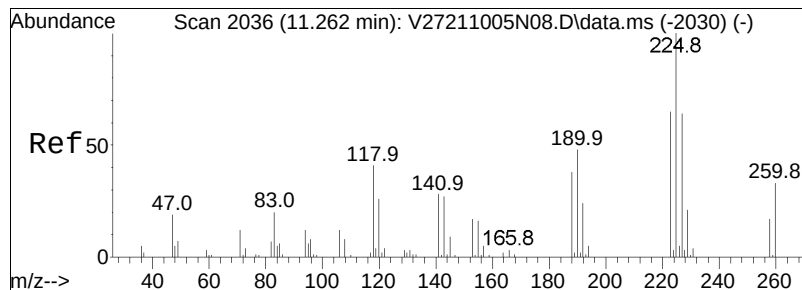




#106
 1,2-Dibromo-3-chloropropane
 Concen: 36.29 ug/L
 RT: 10.911 min Scan# 1969
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

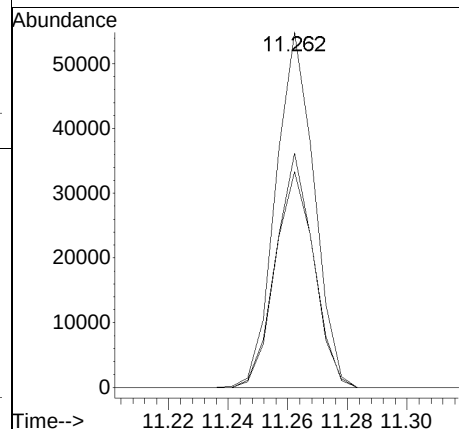
Tgt Ion	Ratio	Lower	Upper
155	100		
157	123.4	94.8	142.2

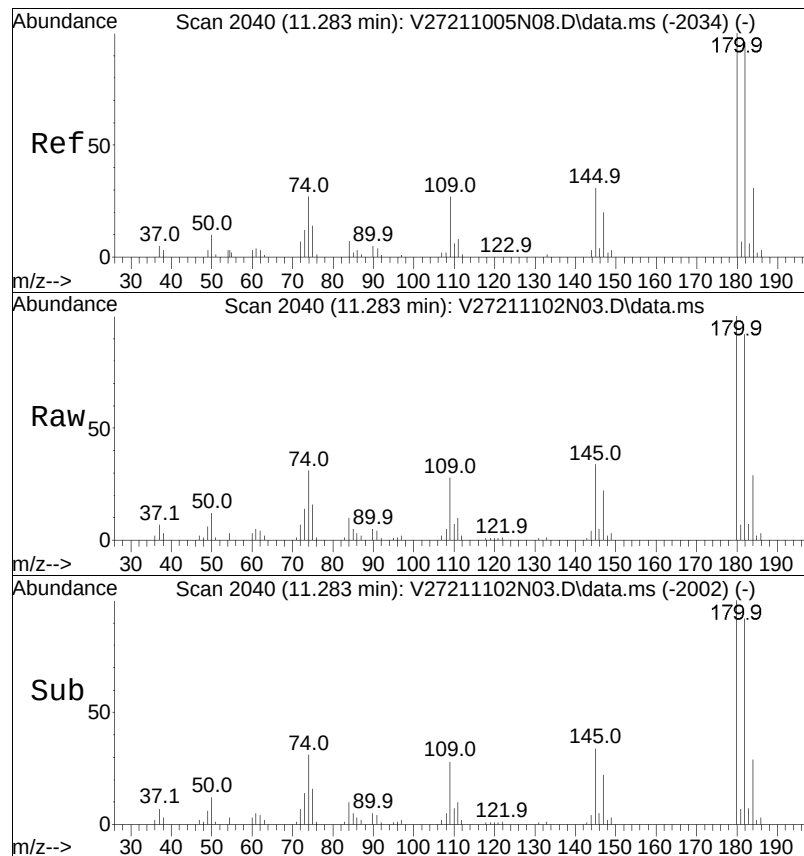




#108
 Hexachlorobutadiene
 Concen: 39.03 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

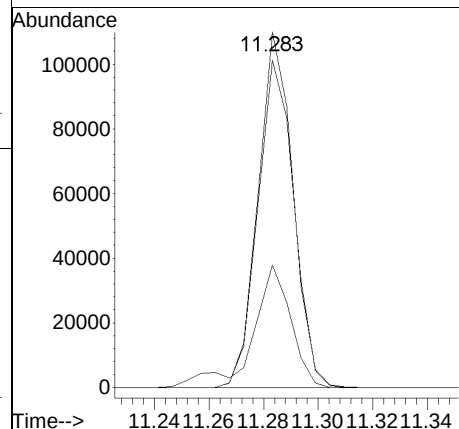
Tgt	Ion:225	Resp:	49167
Ion	Ratio	Lower	Upper
225	100		
223	64.5	54.3	81.5
227	61.8	52.4	78.6

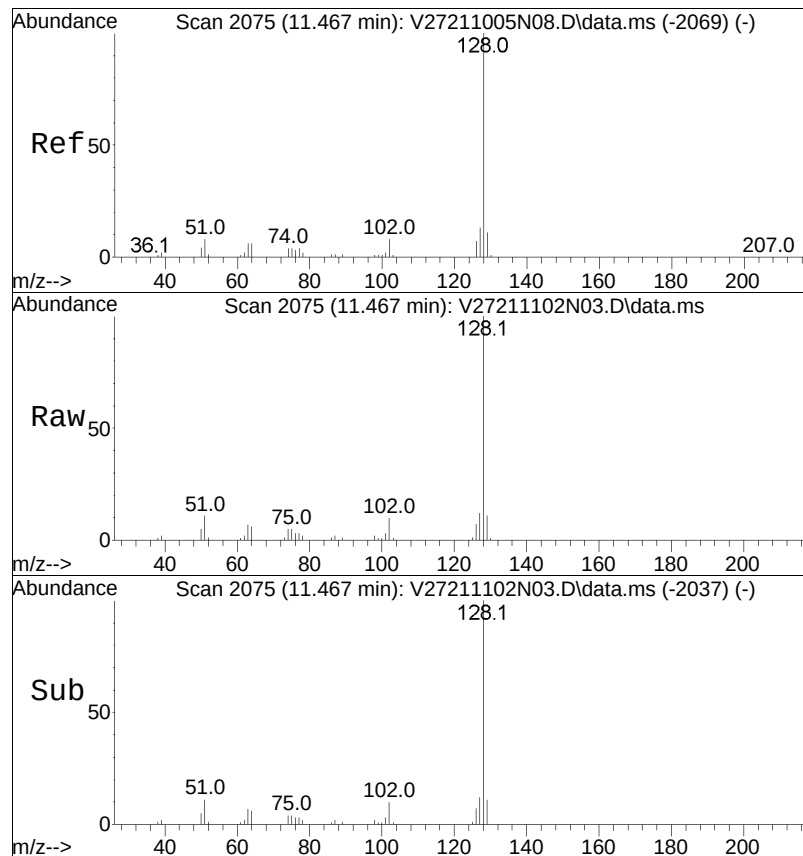




#109
 1,2,4-Trichlorobenzene
 Concen: 38.00 ug/L
 RT: 11.283 min Scan# 2040
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

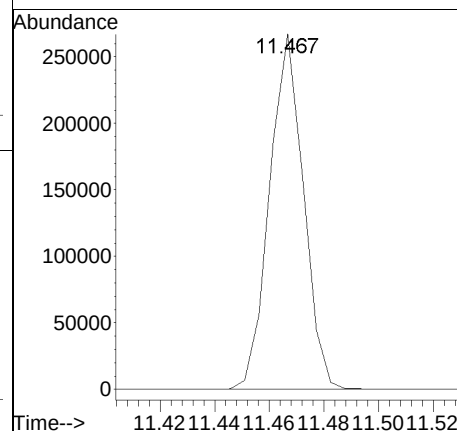
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.3	115.9
145	37.8	28.1	42.1

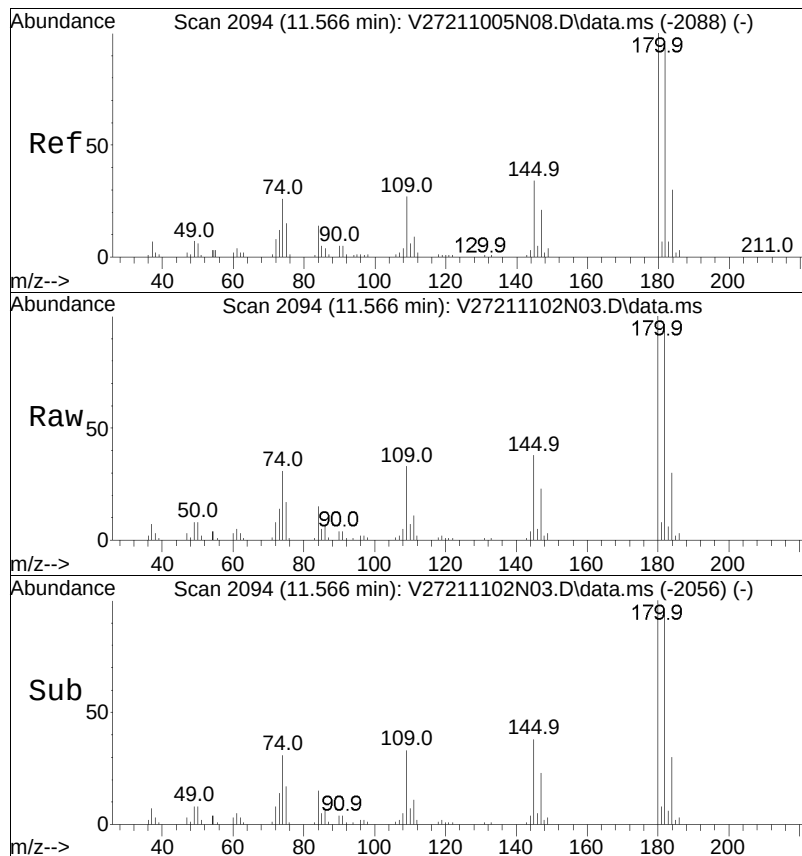




#110
 Naphthalene
 Concen: 36.31 ug/L
 RT: 11.467 min Scan# 2075
 Delta R.T. -0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

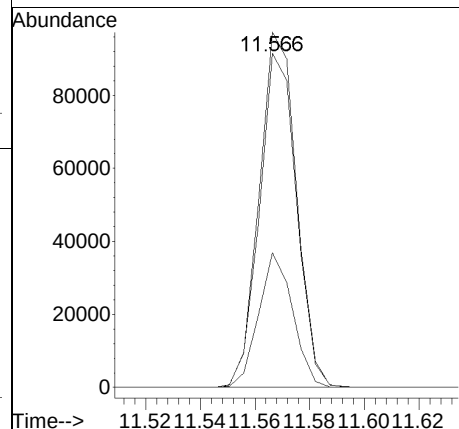
Tgt Ion:128 Resp: 230554





#111
 1,2,3-Trichlorobenzene
 Concen: 37.92 ug/L
 RT: 11.566 min Scan# 2094
 Delta R.T. 0.000 min
 Lab File: V27211102N03.D
 Acq: 02 Nov 2021 04:59 pm

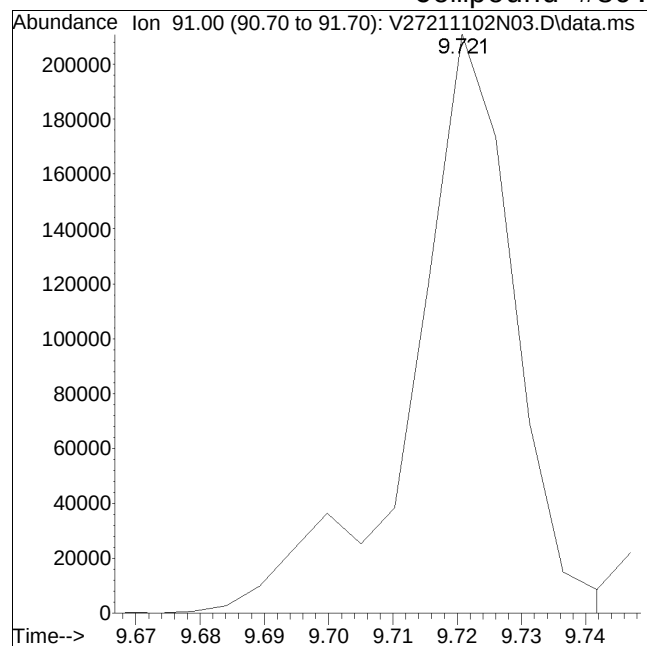
Tgt	Ion	Ratio	Lower	Upper
180	100			
182	93.5	76.4	114.6	
145	34.8	26.4	39.6	



Manual Integration Report

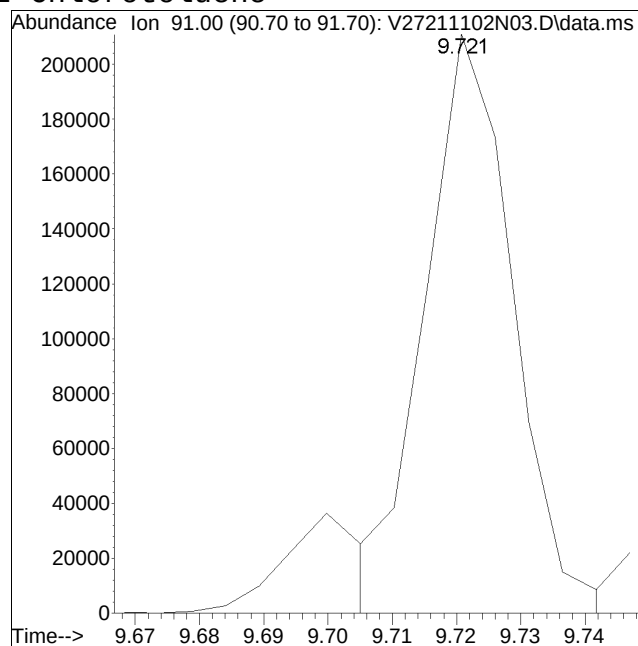
Data Path : I:\VOLATILES\VOA127\2021\20Method : V127_211005N_8260.m
Data File : V27211102N03.D Operator : VOA127:KJD
Date Inj'd : 11/2/2021 4:59 pm Instrument : VOA127
Sample : WG1566511-4,31,5,5 Quant Date : 11/2/2021 5:24 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 230873

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 199976 M6

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A02.D
 Acq On : 06 Nov 2021 06:30 am
 Operator : VOA123:MV
 Sample : WG1568305-4,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:03:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.729	96	221427	20.000	ug/L	0.00
Standard Area 1 = 207736			Recovery =	106.59%		
59) Chlorobenzene-d5	9.231	117	164290	20.000	ug/L	0.00
Standard Area 1 = 157233			Recovery =	104.49%		
79) 1,4-Dichlorobenzene-d4	11.999	152	95397	20.000	ug/L	0.00
Standard Area 1 = 91068			Recovery =	104.75%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.926	113	59494	19.717	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.58%		
43) 1,2-Dichloroethane-d4	5.445	65	52112	19.626	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.13%		
60) Toluene-d8	7.401	98	219004	21.545	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.73%		
83) 4-Bromofluorobenzene	10.757	95	73987	20.321	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.61%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.524	85	115166	37.598	ug/L	99
3) Chloromethane	1.702	50	110792	37.899	ug/L	99
4) Vinyl chloride	1.765	62	126182	39.571	ug/L	100
5) Bromomethane	2.058	94	112781	39.523	ug/L	100
6) Chloroethane	2.174	64	96331	39.932	ug/L	98
7) Trichlorofluoromethane	2.300	101	216095	35.519	ug/L	99
8) Ethyl ether	2.577	74	57165	39.113	ug/L	91
10) 1,1-Dichloroethene	2.761	96	102066	41.512	ug/L	99
11) Carbon disulfide	2.787	76	287555	36.978	ug/L	100
15) Methylene chloride	3.285	84	116315	36.685	ug/L	93
17) Acetone	3.327	43	19437	38.282	ug/L	90
18) trans-1,2-Dichloroethene	3.432	96	119137	41.524	ug/L	96
20) Methyl tert-butyl ether	3.526	73	279266	39.198	ug/L	96
23) 1,1-Dichloroethane	3.993	63	206923	41.100	ug/L	99
25) Acrylonitrile	4.040	53	25404	39.011	ug/L	# 91
27) Vinyl acetate	4.224	43	250654	47.381	ug/L	95
28) cis-1,2-Dichloroethene	4.496	96	133556	40.873	ug/L	98
29) 2,2-Dichloropropane	4.601	77	184152	44.751	ug/L	93
30) Bromochloromethane	4.685	128	66365	40.010	ug/L	99
32) Chloroform	4.753	83	219802	39.507	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A02.D
 Acq On : 06 Nov 2021 06:30 am
 Operator : VOA123:MV
 Sample : WG1568305-4,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:03:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.890	117	192006	45.427	ug/L	99
37) 1,1,1-Trichloroethane	4.953	97	198136	44.361	ug/L	99
39) 2-Butanone	5.047	43	34955	38.172	ug/L	90
40) 1,1-Dichloropropene	5.073	75	156754	44.290	ug/L	97
41) Benzene	5.314	78	455244	41.468	ug/L	98
44) 1,2-Dichloroethane	5.514	62	146651	39.911	ug/L	99
48) Trichloroethene	5.896	95	129801	42.789	ug/L	95
50) Dibromomethane	6.331	93	72136	40.250	ug/L	98
51) 1,2-Dichloropropane	6.436	63	114853	40.502	ug/L	99
54) Bromodichloromethane	6.504	83	171200	42.812	ug/L	98
57) 1,4-Dioxane	6.730	88	43215	2006.080	ug/L #	96
58) cis-1,3-Dichloropropene	7.197	75	190256	43.286	ug/L #	91
61) Toluene	7.459	92	300173	45.047	ug/L	99
62) 4-Methyl-2-pentanone	7.899	58	28360	41.243	ug/L #	74
63) Tetrachloroethene	7.899	166	137555	46.231	ug/L	98
65) trans-1,3-Dichloropropene	7.941	75	171860	47.971	ug/L	94
68) 1,1,2-Trichloroethane	8.119	83	81119	42.635	ug/L	99
69) Chlorodibromomethane	8.324	129	137117	42.800	ug/L	97
70) 1,3-Dichloropropane	8.444	76	159069	42.705	ug/L	99
71) 1,2-Dibromoethane	8.596	107	98559	44.297	ug/L	100
72) 2-Hexanone	8.901	43	50594	39.897	ug/L	89
73) Chlorobenzene	9.252	112	356803	45.604	ug/L #	83
74) Ethylbenzene	9.294	91	590964	45.608	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.336	131	143132	48.361	ug/L	98
76) p/m Xylene	9.483	106	477722	93.553	ug/L	96
77) o Xylene	10.028	106	458838	92.618	ug/L	96
78) Styrene	10.101	104	787353	81.722	ug/L	95
80) Bromoform	10.112	173	85261	42.926	ug/L	99
82) Isopropylbenzene	10.432	105	623733	47.011	ug/L	98
84) Bromobenzene	10.872	156	157308	43.048	ug/L	99
85) n-Propylbenzene	10.930	91	736950	46.670	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.014	83	120694	43.589	ug/L	99
88) 4-Ethyltoluene	11.061	105	623050	46.487	ug/L	98
89) 2-Chlorotoluene	11.092	91	429112M6	46.860	ug/L	
90) 1,3,5-Trimethylbenzene	11.160	105	536608	46.580	ug/L	98
91) 1,2,3-Trichloropropane	11.155	75	91846	41.398	ug/L	93
92) trans-1,4-Dichloro-2-b...	11.213	53	33872	45.551	ug/L	92
93) 4-Chlorotoluene	11.281	91	443499	46.014	ug/L	91
94) tert-Butylbenzene	11.506	119	476999	47.403	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A02.D
 Acq On : 06 Nov 2021 06:30 am
 Operator : VOA123:MV
 Sample : WG1568305-4,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:03:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA123\2021\211106A\V23211106A01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.585	105	540344	45.872	ug/L	98
98)	sec-Butylbenzene	11.700	105	724975	48.371	ug/L	97
99)	p-Isopropyltoluene	11.863	119	637608	48.605	ug/L	98
100)	1,3-Dichlorobenzene	11.915	146	334658	45.508	ug/L	98
101)	1,4-Dichlorobenzene	12.015	146	334282	44.816	ug/L	98
102)	p-Diethylbenzene	12.240	119	380243	48.506	ug/L	97
103)	n-Butylbenzene	12.298	91	567383	48.715	ug/L	97
104)	1,2-Dichlorobenzene	12.440	146	307645	44.445	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.043	119	585004	47.546	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.226	155	20347	43.628	ug/L	99
108)	Hexachlorobutadiene	13.845	225	110251	44.251	ug/L	99
109)	1,2,4-Trichlorobenzene	13.866	180	208504	44.150	ug/L	98
110)	Naphthalene	14.159	128	424524	43.298	ug/L	100
111)	1,2,3-Trichlorobenzene	14.327	180	181589	41.773	ug/L	98

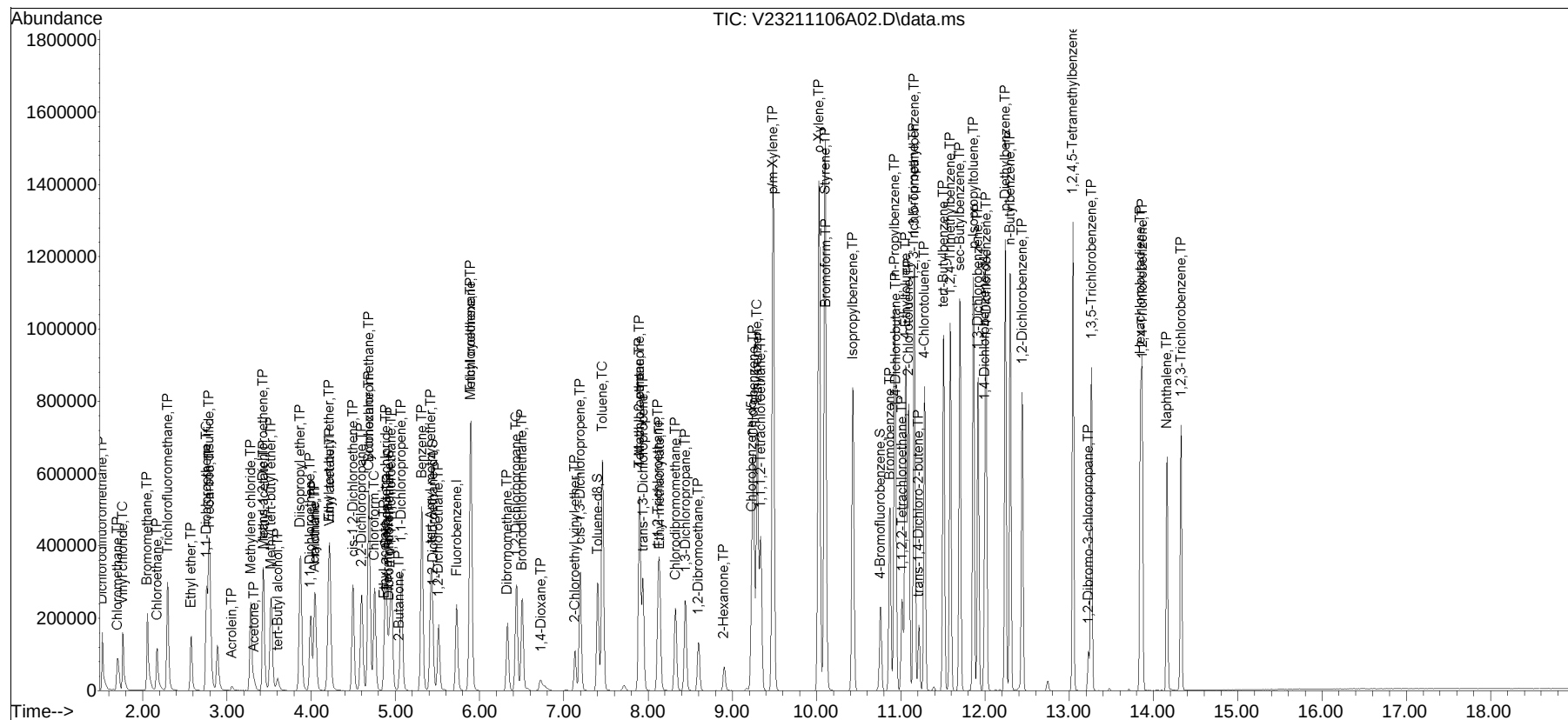
(#) = qualifier out of range (m) = manual integration (+) = signals summed

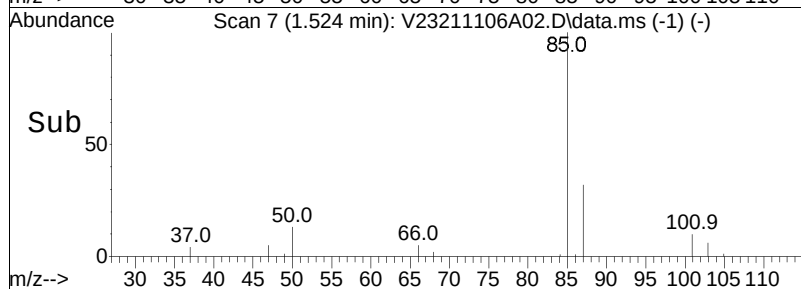
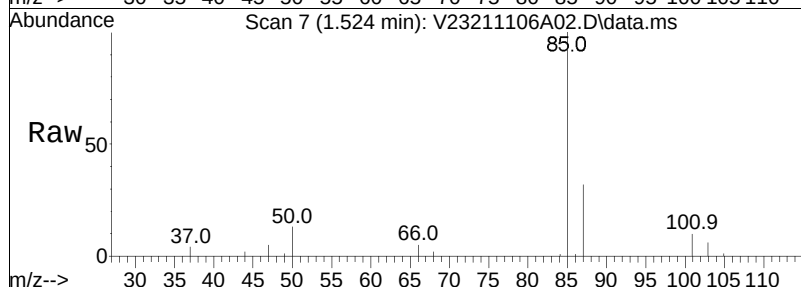
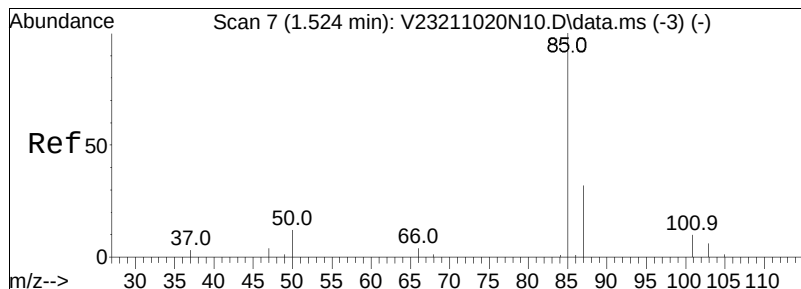
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\211106A\
 Data File : V23211106A02.D
 Acq On : 06 Nov 2021 06:30 am
 Operator : VOA123:MV
 Sample : WG1568305-4,31,5,5
 Misc : WG1568305,ICAL18401
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 10:03:56 2021
 Quant Method : I:\VOLATILES\VOA123\2021\211106A\V123_211020N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 21 08:44:24 2021
 Response via : Initial Calibration

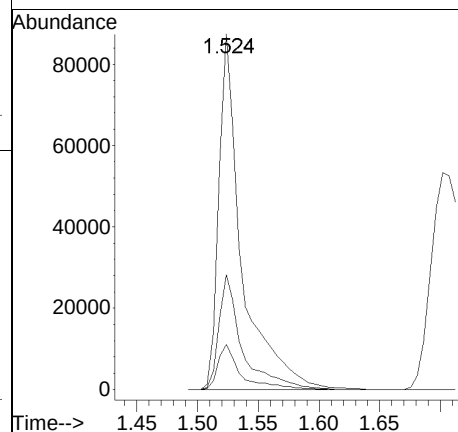
Sub List : 8260-CurveSoil - Megamix plus Diox6A\V23211106A01.D•

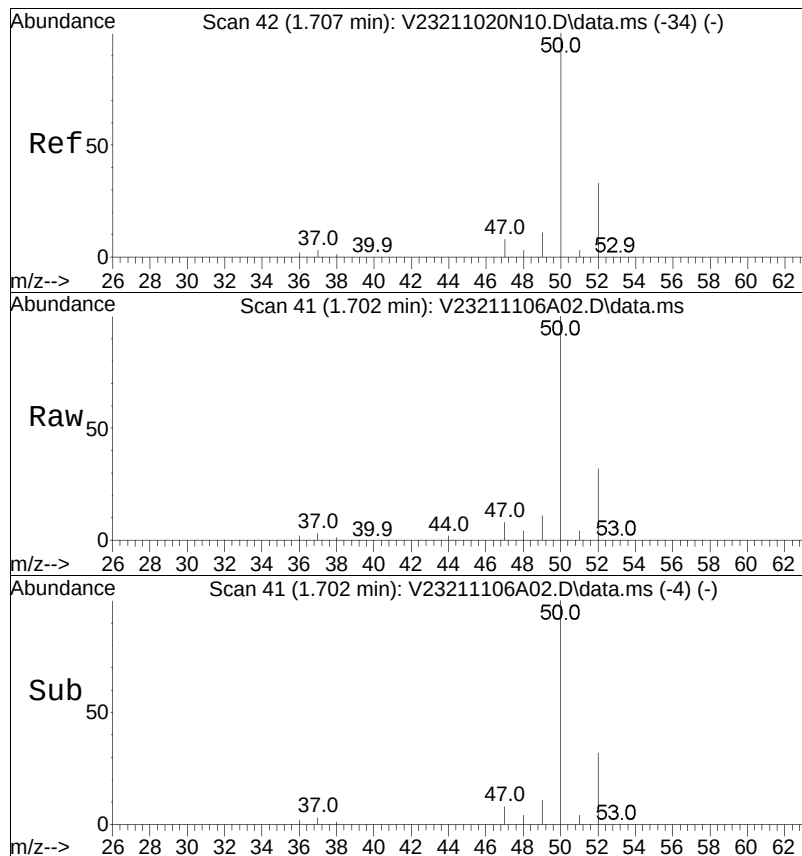




#2
 Dichlorodifluoromethane
 Concen: 37.60 ug/L
 RT: 1.524 min Scan# 7
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

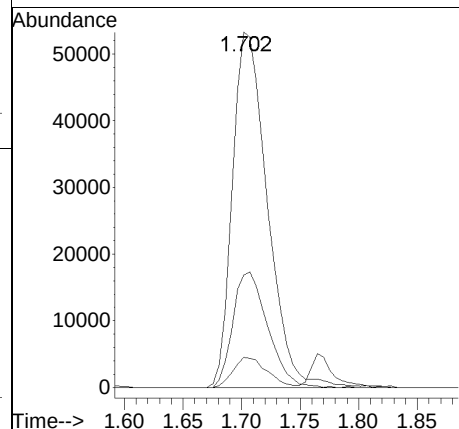
Tgt Ion:	85	Resp:	115166
Ion Ratio	Lower	Upper	
85	100		
87	32.8	21.1	43.7
50	12.6	7.3	15.3

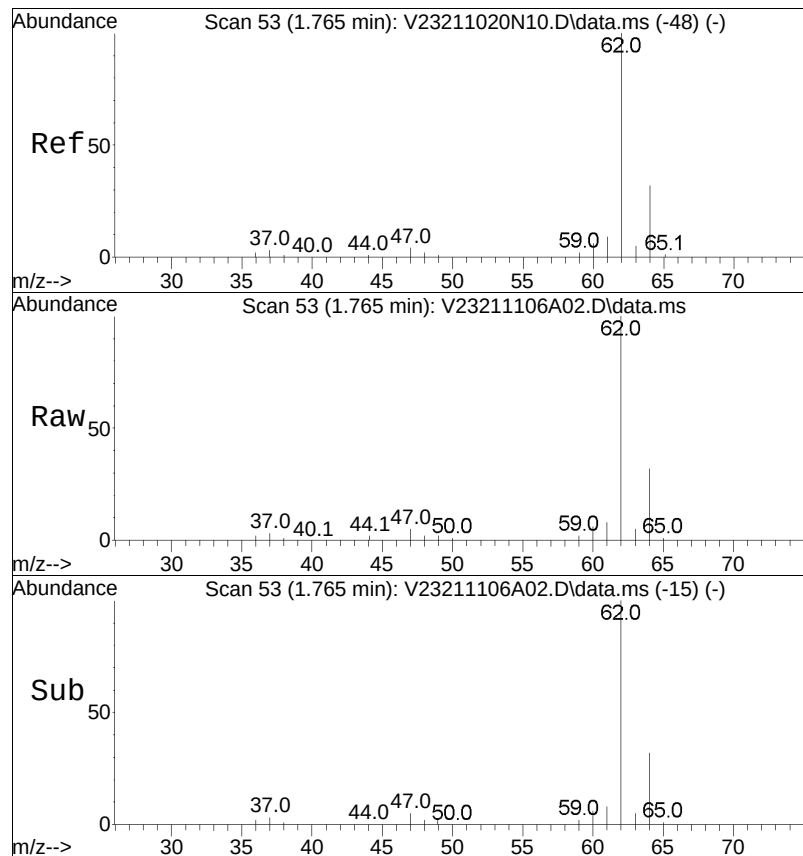




#3
 Chloromethane
 Concen: 37.90 ug/L
 RT: 1.702 min Scan# 41
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

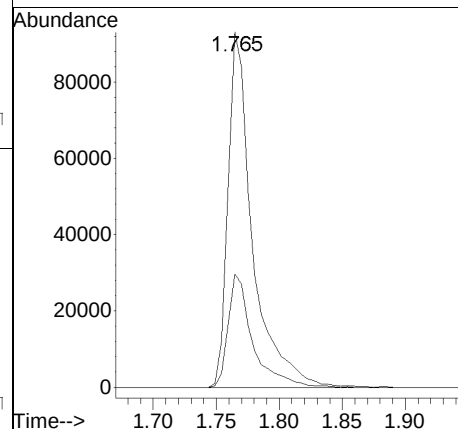
Tgt Ion: 50	Resp: 110792
Ion Ratio Lower Upper	
50 100	
52 32.2 12.7 52.7	
47 8.2 0.0 28.1	

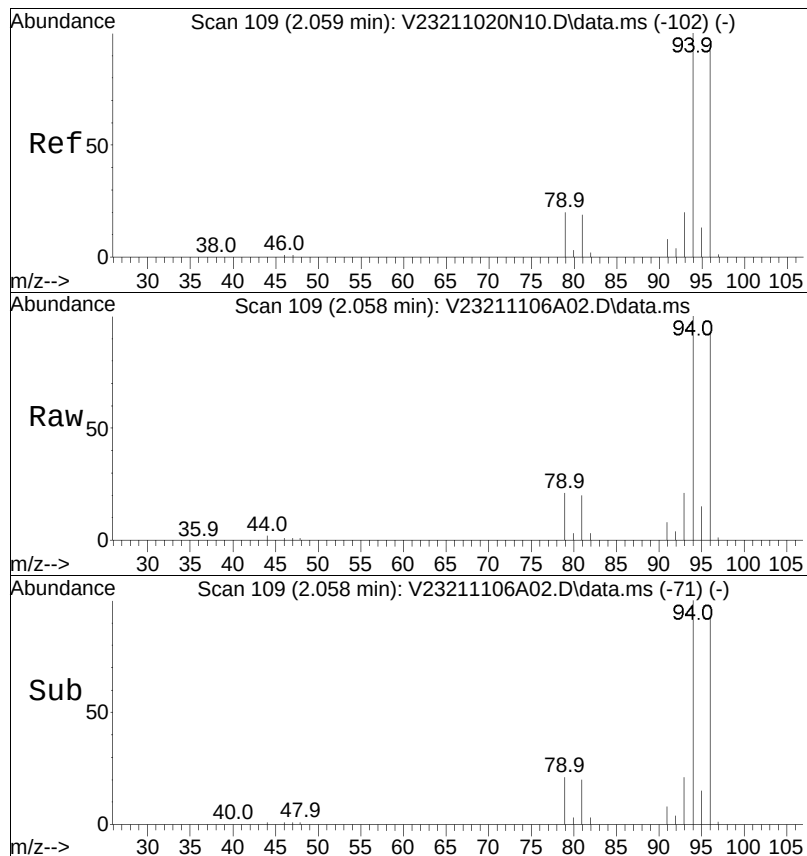




#4
 Vinyl chloride
 Concen: 39.57 ug/L
 RT: 1.765 min Scan# 53
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

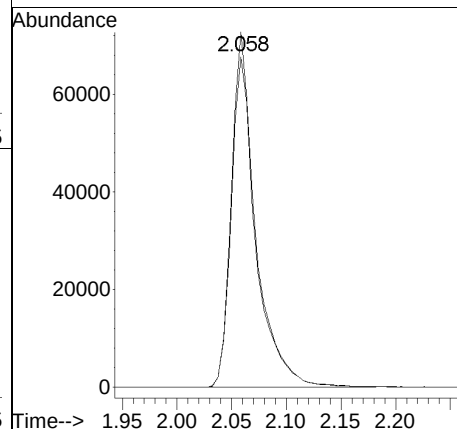
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	32.0	12.0	52.0	

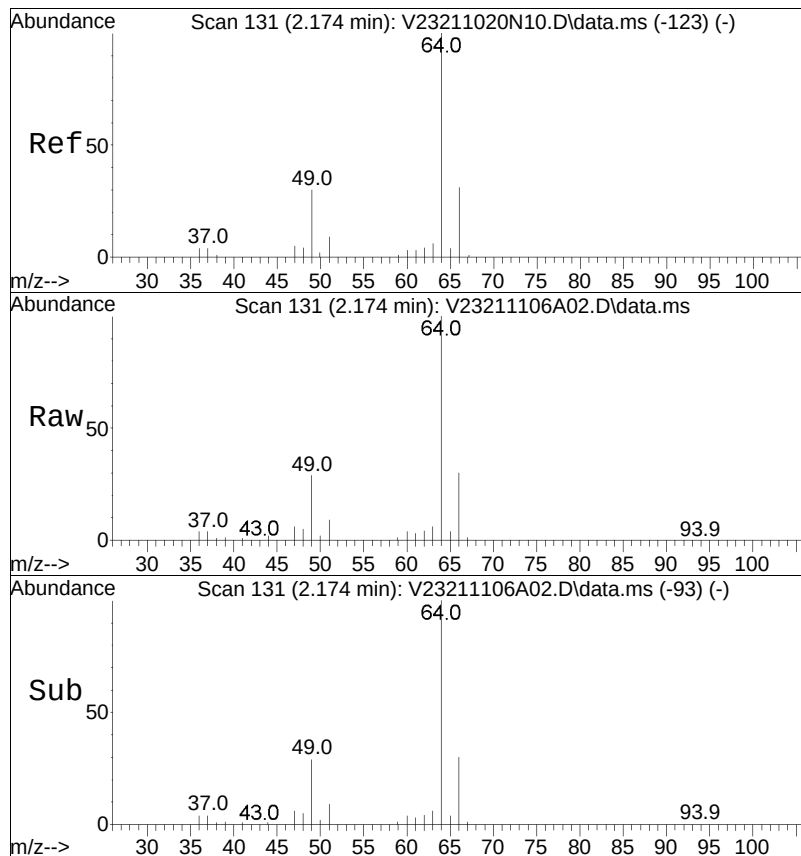




#5
 Bromomethane
 Concen: 39.52 ug/L
 RT: 2.058 min Scan# 109
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

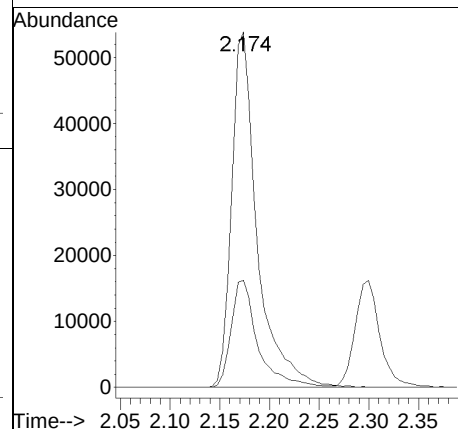
Tgt Ion	94	Resp	112781
Ion Ratio	Lower	Upper	
94	100		
96	94.9	74.6	114.6

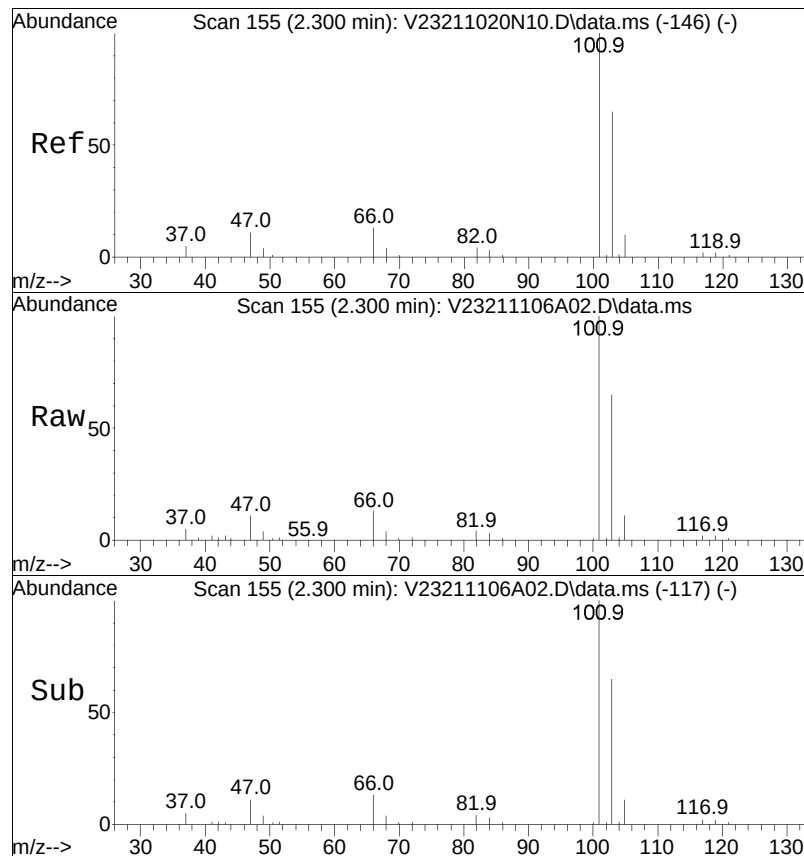




#6
 Chloroethane
 Concen: 39.93 ug/L
 RT: 2.174 min Scan# 131
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

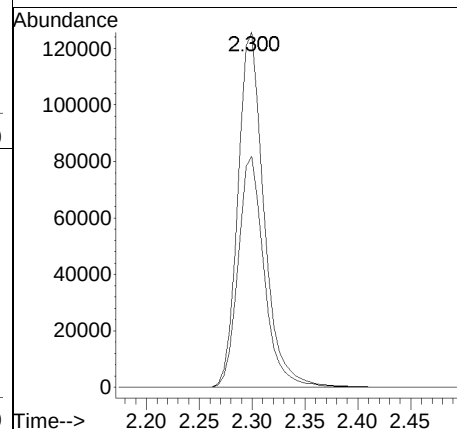
Tgt Ion	Ratio	Lower	Upper
64	100		
66	31.6	12.6	52.6

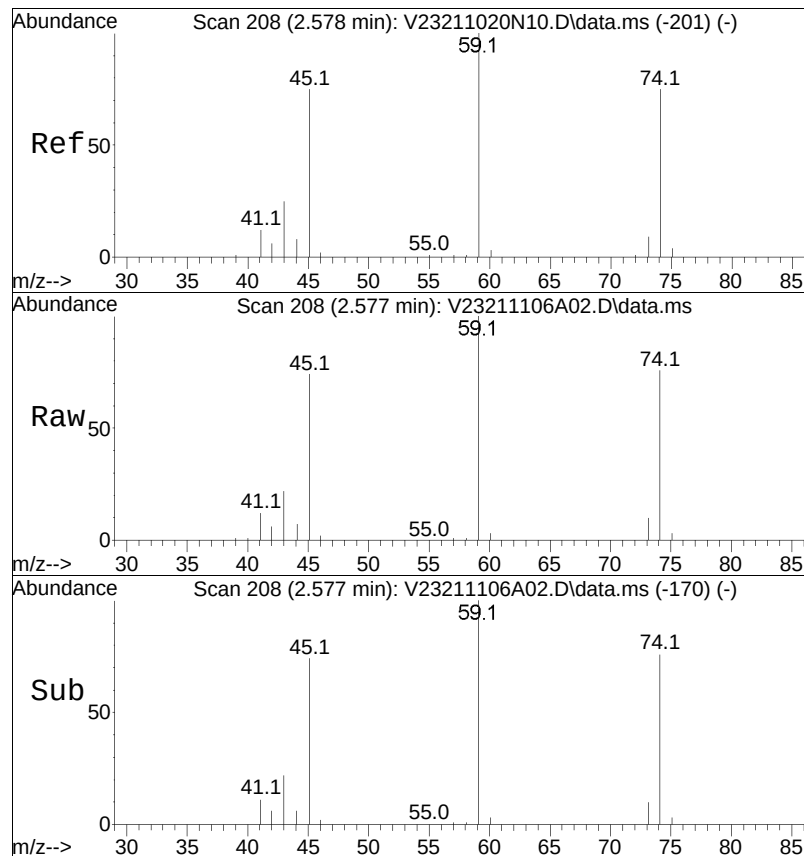




#7
 Trichlorofluoromethane
 Concen: 35.52 ug/L
 RT: 2.300 min Scan# 155
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

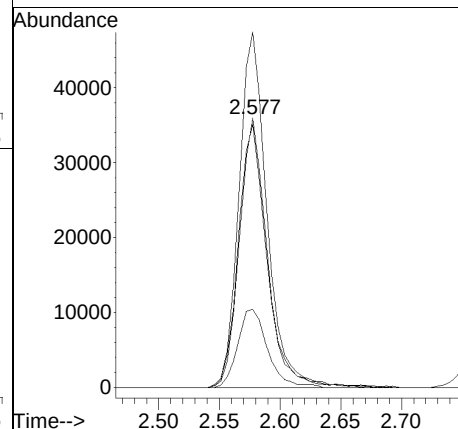
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	65.0	51.4	77.2	

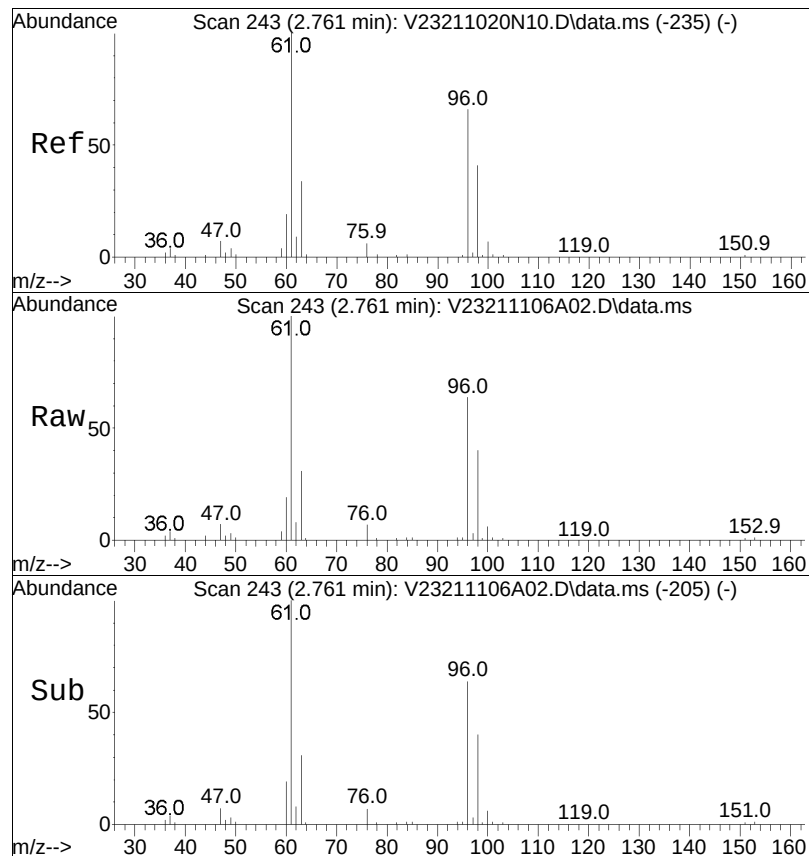




#8
 Ethyl ether
 Concen: 39.11 ug/L
 RT: 2.577 min Scan# 208
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

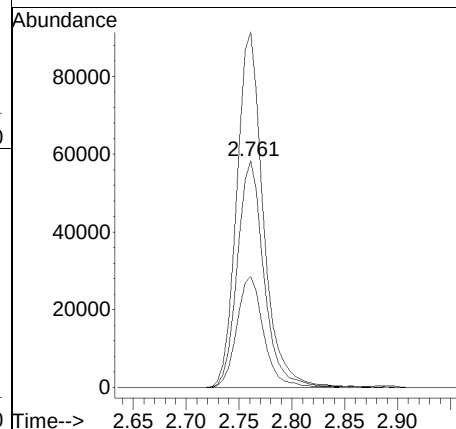
Tgt Ion:	74	Resp:	57165
Ion	Ratio	Lower	Upper
74	100		
59	133.1	84.3	175.1
45	100.4	55.4	115.2
43	31.1	15.9	32.9

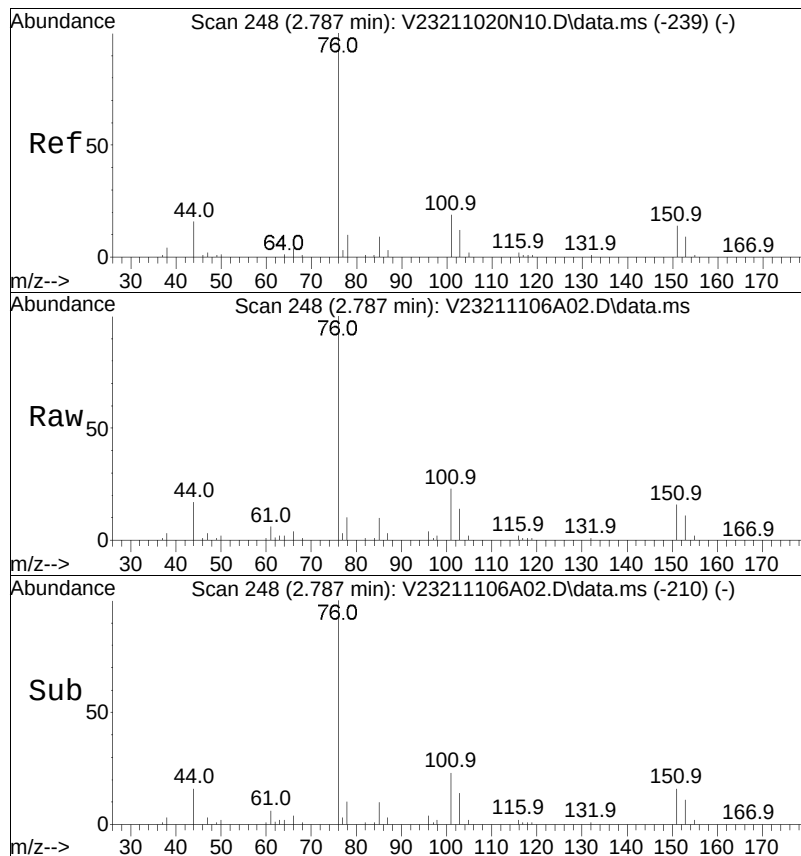




#10
 1,1-Dichloroethene
 Concen: 41.51 ug/L
 RT: 2.761 min Scan# 243
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

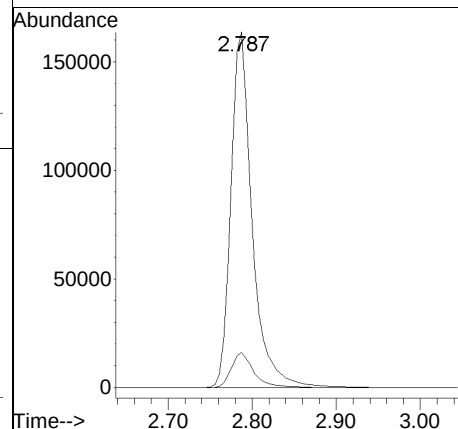
Tgt Ion:	96	Resp:	102066
Ion	Ratio	Lower	Upper
96	100		
61	156.5	124.5	186.7
63	49.3	40.7	61.1

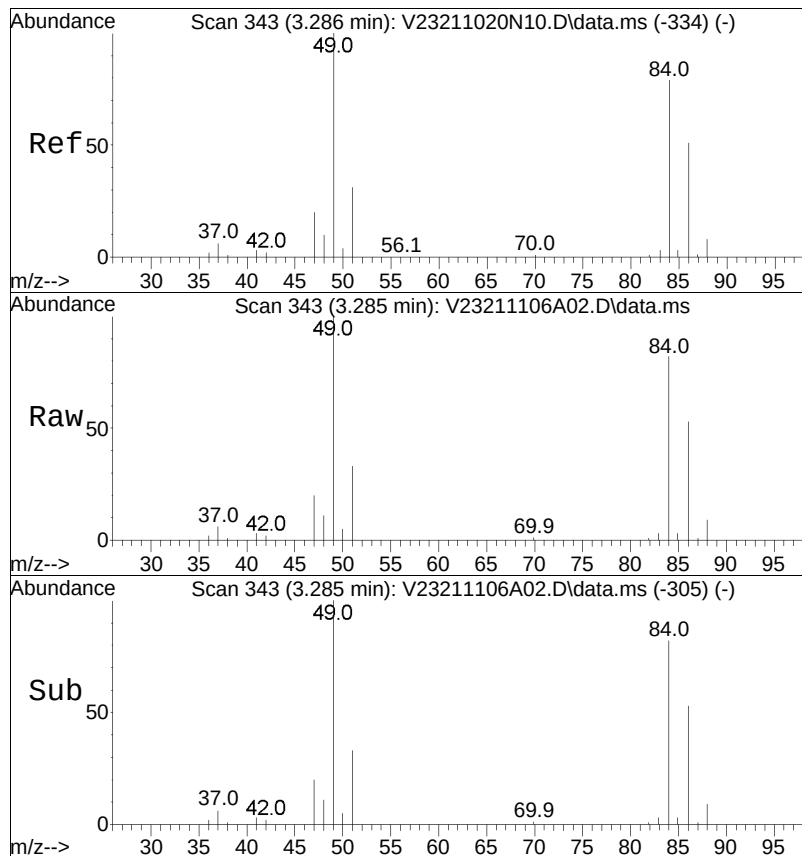




#11
Carbon disulfide
Concen: 36.98 ug/L
RT: 2.787 min Scan# 248
Delta R.T. 0.000 min
Lab File: V23211106A02.D
Acq: 06 Nov 2021 06:30 am

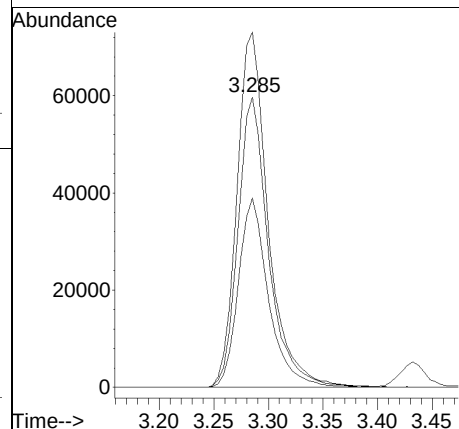
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.7	13.9

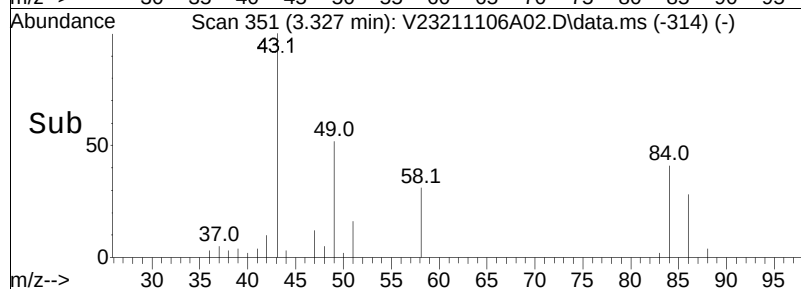
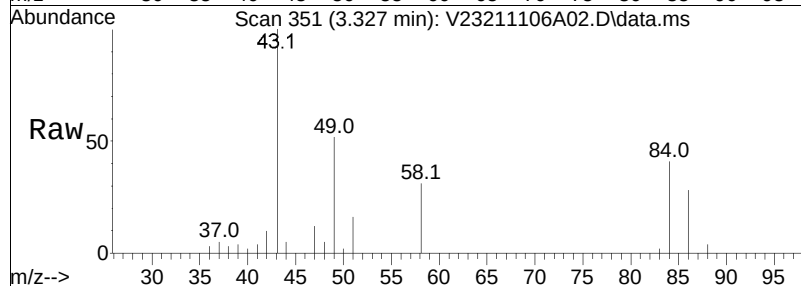
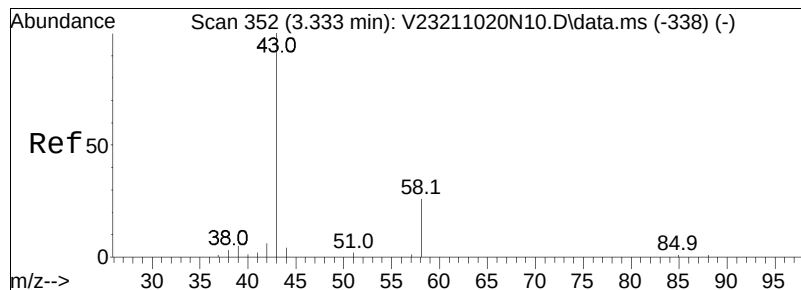




#15
 Methylene chloride
 Concen: 36.69 ug/L
 RT: 3.285 min Scan# 343
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

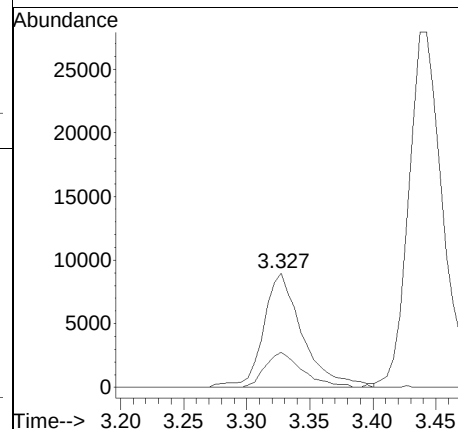
Tgt	Ion: 84	Resp:	116315
Ion	Ratio	Lower	Upper
84	100		
86	64.6	42.0	87.2
49	125.0	74.0	153.6

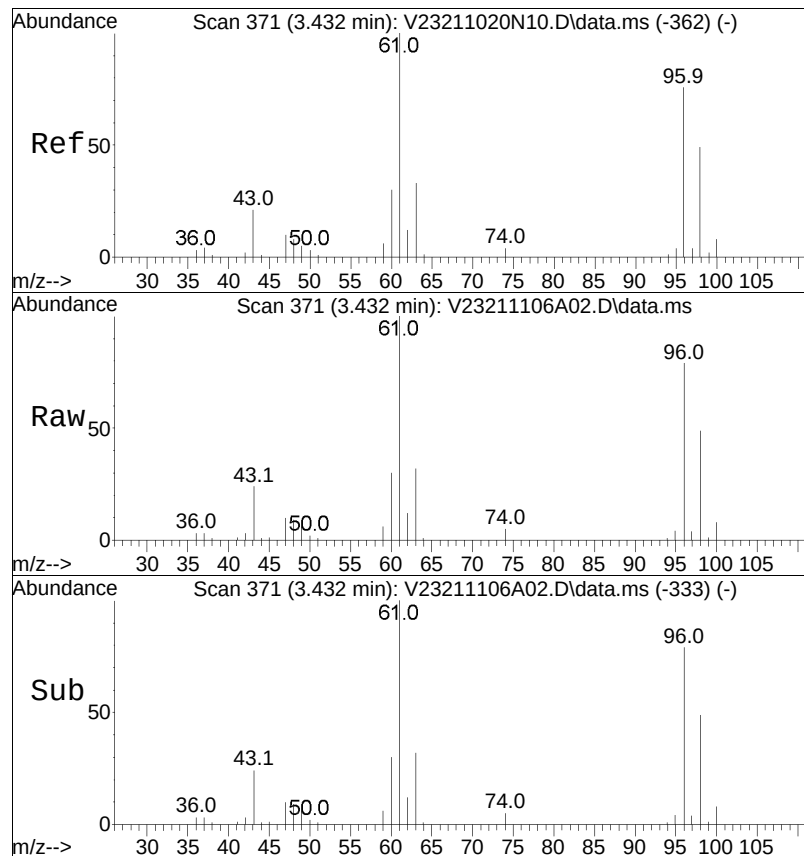




#17
 Acetone
 Concen: 38.28 ug/L
 RT: 3.327 min Scan# 351
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

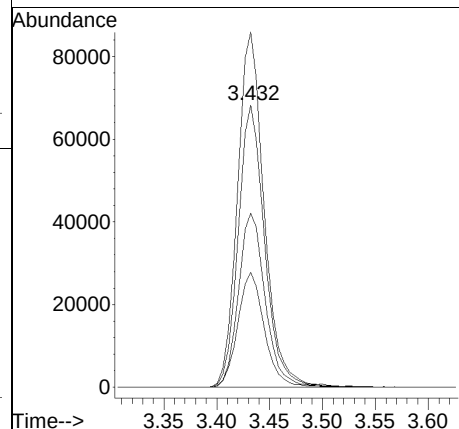
Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.6	28.2	42.4

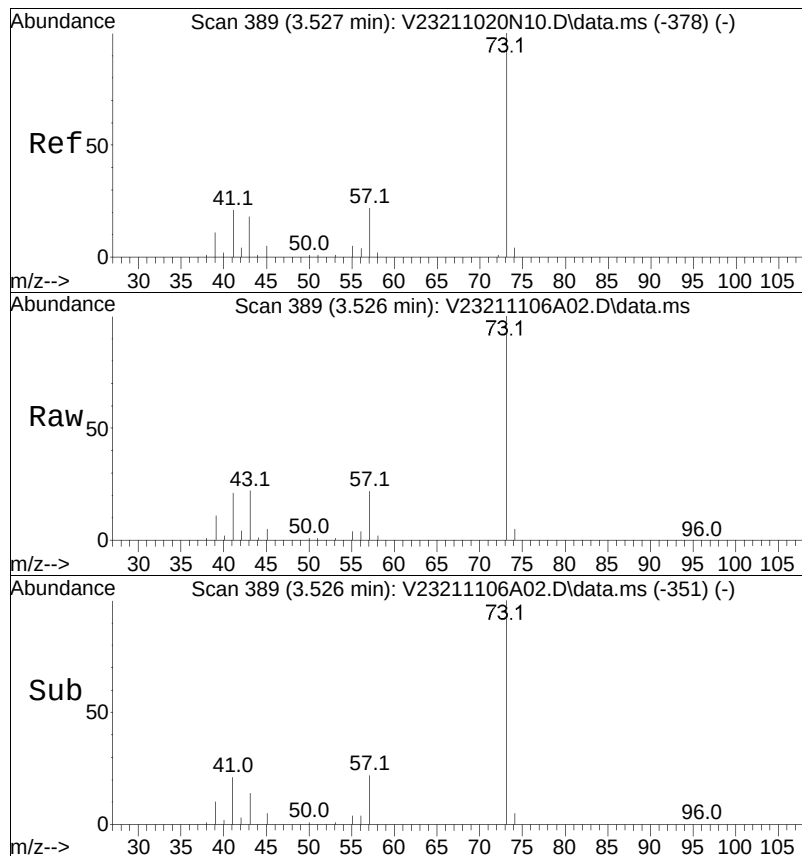




#18
 trans-1,2-Dichloroethene
 Concen: 41.52 ug/L
 RT: 3.432 min Scan# 371
 Delta R.T. 0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

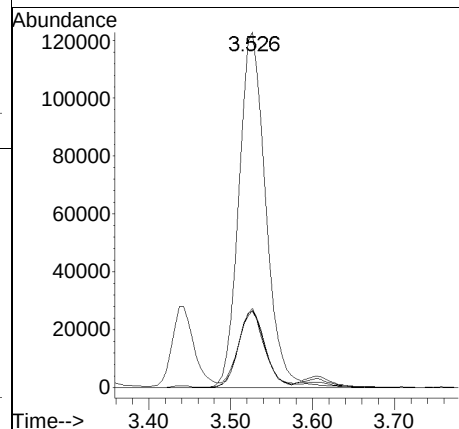
Tgt Ion:	96	Resp:	119137
Ion Ratio	Lower	Upper	
96	100		
61	126.8	87.3	181.3
98	62.6	41.1	85.5
63	41.0	28.3	58.7

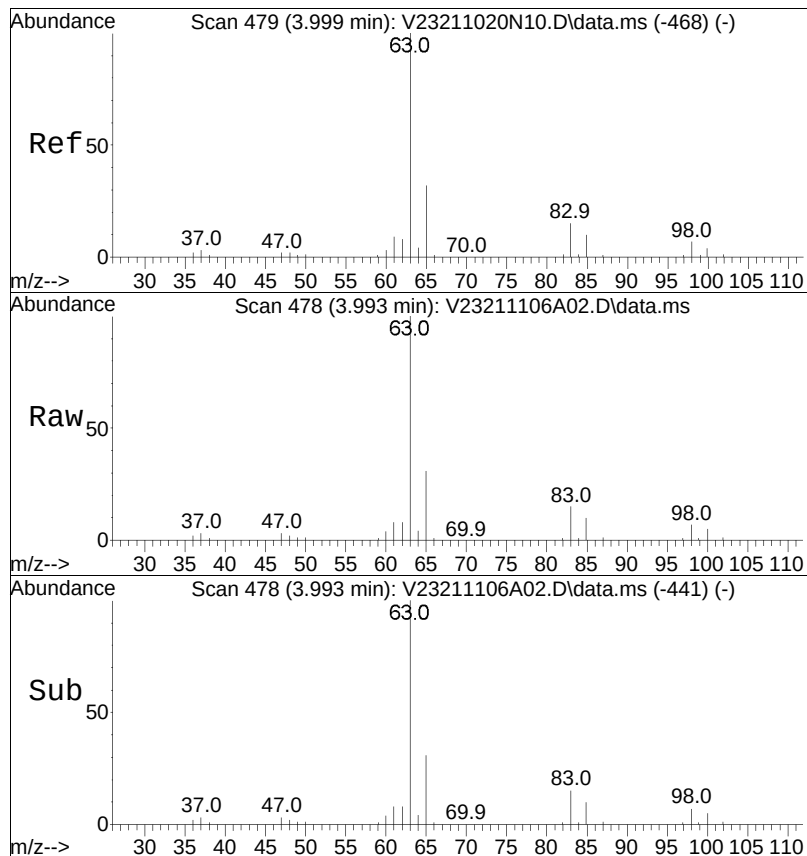




#20
Methyl tert-butyl ether
Concen: 39.20 ug/L
RT: 3.526 min Scan# 389
Delta R.T. -0.001 min
Lab File: V23211106A02.D
Acq: 06 Nov 2021 06:30 am

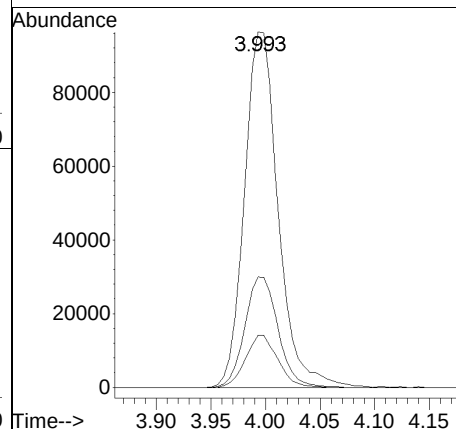
Tgt	Ion: 73	Resp:	279266
Ion	Ratio	Lower	Upper
73	100		
57	21.6	14.2	29.4
43	21.2	12.4	25.7
41	20.8	11.6	24.0

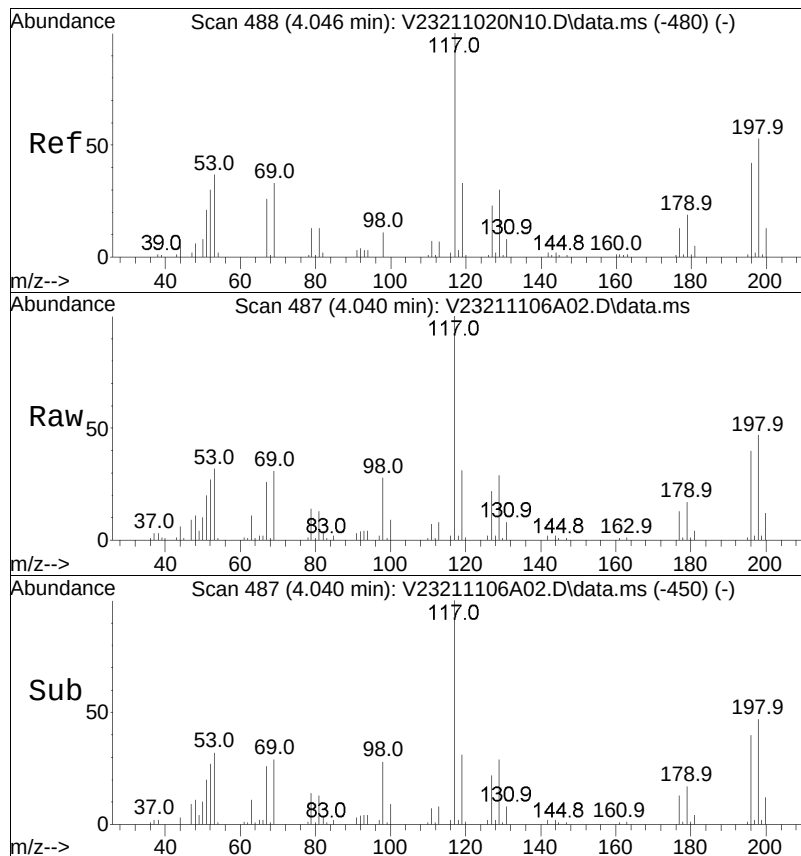




#23
 1,1-Dichloroethane
 Concen: 41.10 ug/L
 RT: 3.993 min Scan# 478
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

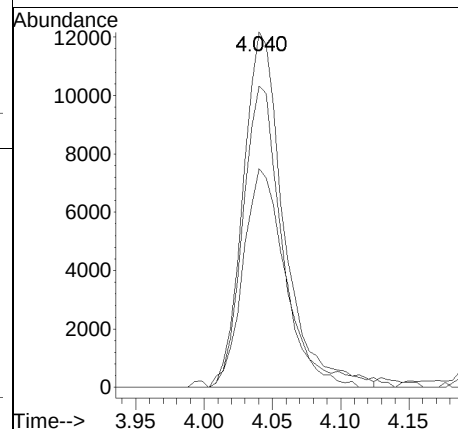
Tgt	Ion	Resp	Lower	Upper
63	100			
65	30.6	11.1	51.1	
83	14.0	0.0	33.3	

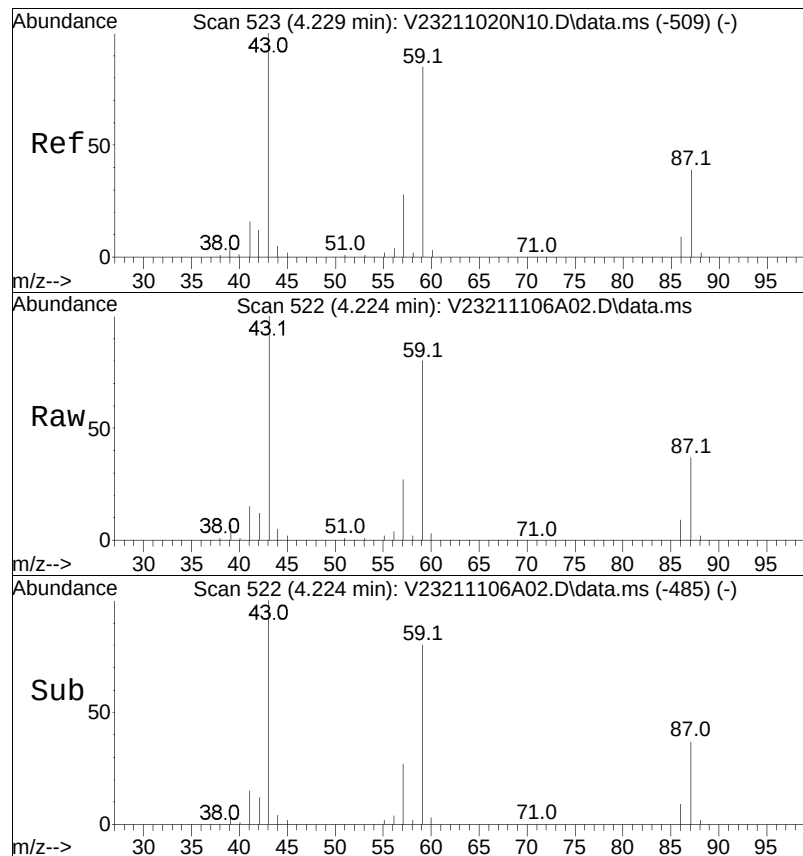




#25
 Acrylonitrile
 Concen: 39.01 ug/L
 RT: 4.040 min Scan# 487
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

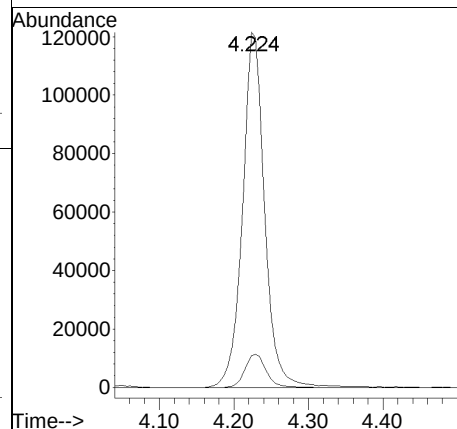
Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.1	100.7
51	64.1	38.5	57.7#

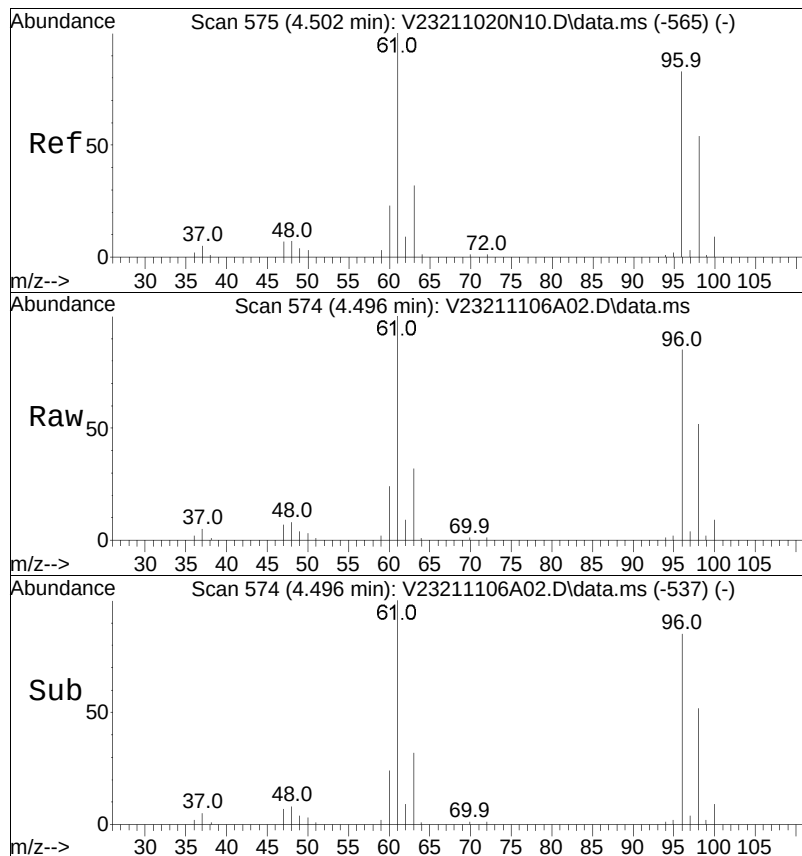




#27
 Vinyl acetate
 Concen: 47.38 ug/L
 RT: 4.224 min Scan# 522
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

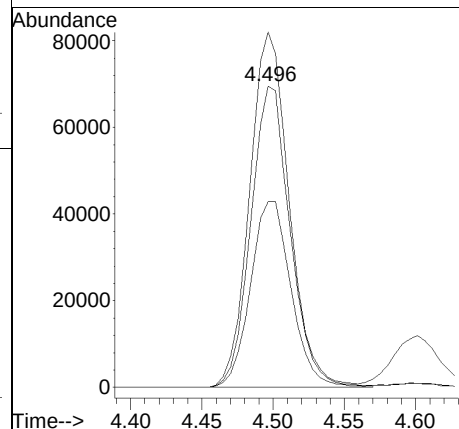
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.9	8.6	12.8

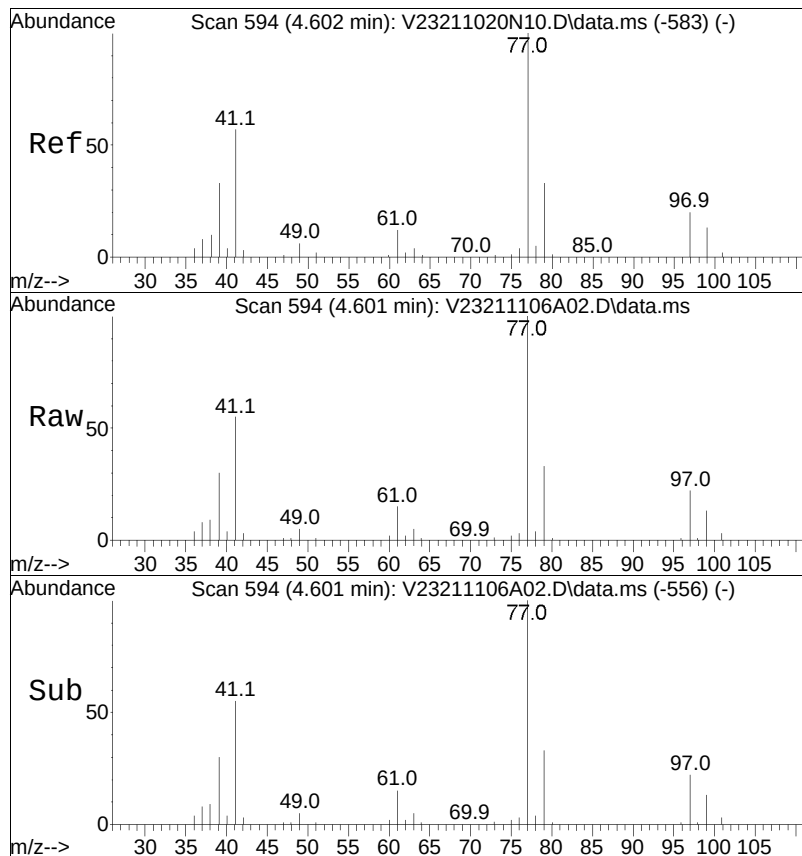




#28
 cis-1,2-Dichloroethene
 Concen: 40.87 ug/L
 RT: 4.496 min Scan# 574
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

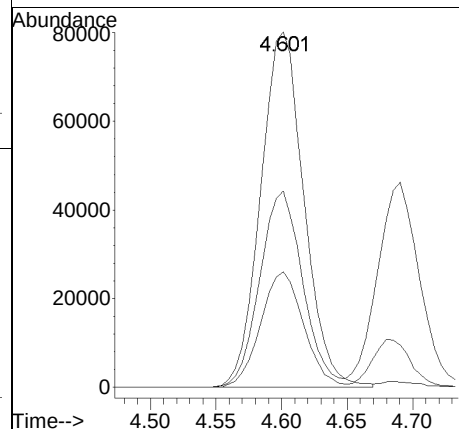
Tgt Ion:	96	Resp:	133556
Ion Ratio	Lower	Upper	
96	100		
61	118.6	98.2	147.2
98	63.8	51.0	76.6

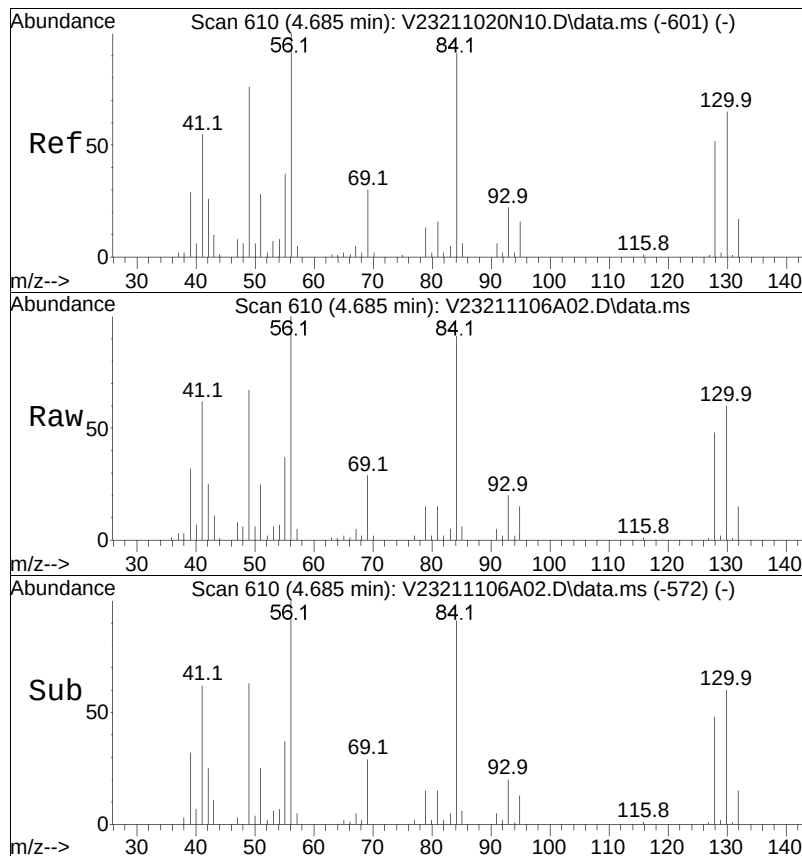




#29
 2,2-Dichloropropane
 Concen: 44.75 ug/L
 RT: 4.601 min Scan# 594
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

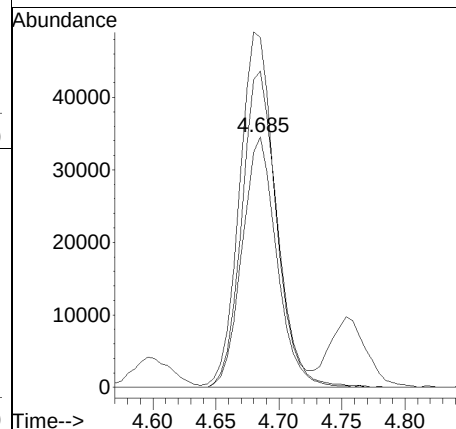
Tgt Ion	Ratio	Lower	Upper
77	100		
41	55.0	31.1	64.7
79	32.4	20.7	43.1

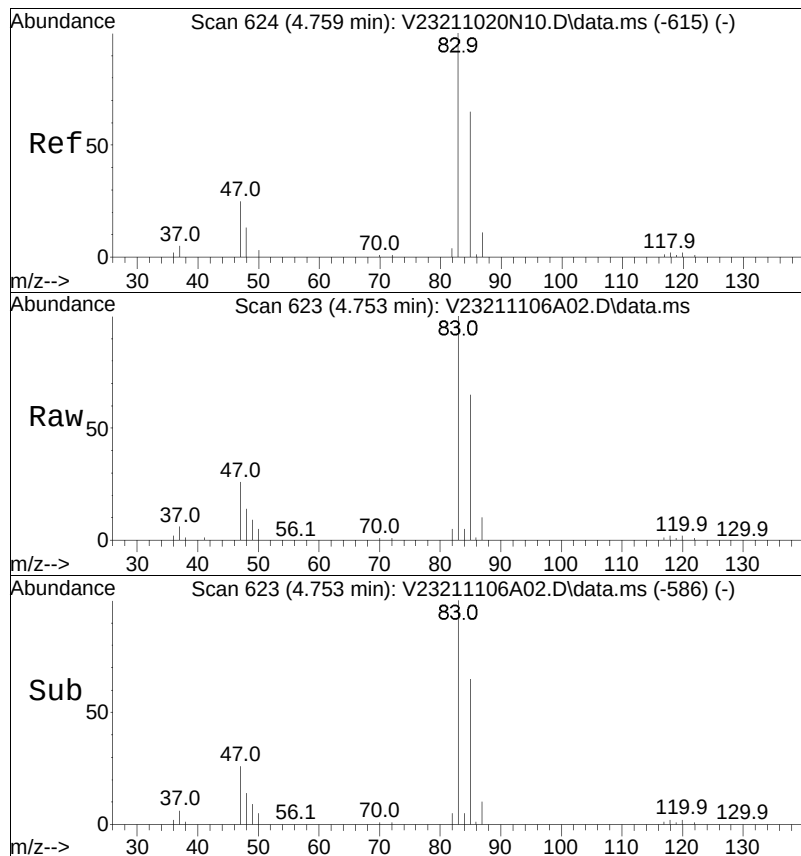




#30
 Bromochloromethane
 Concen: 40.01 ug/L
 RT: 4.685 min Scan# 610
 Delta R.T. 0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

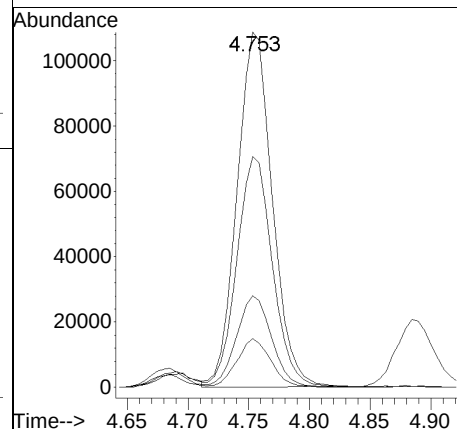
Tgt	Ion	Ratio	Lower	Upper
128	100			
49	145.8	117.6	176.4	
130	129.0	103.8	155.8	

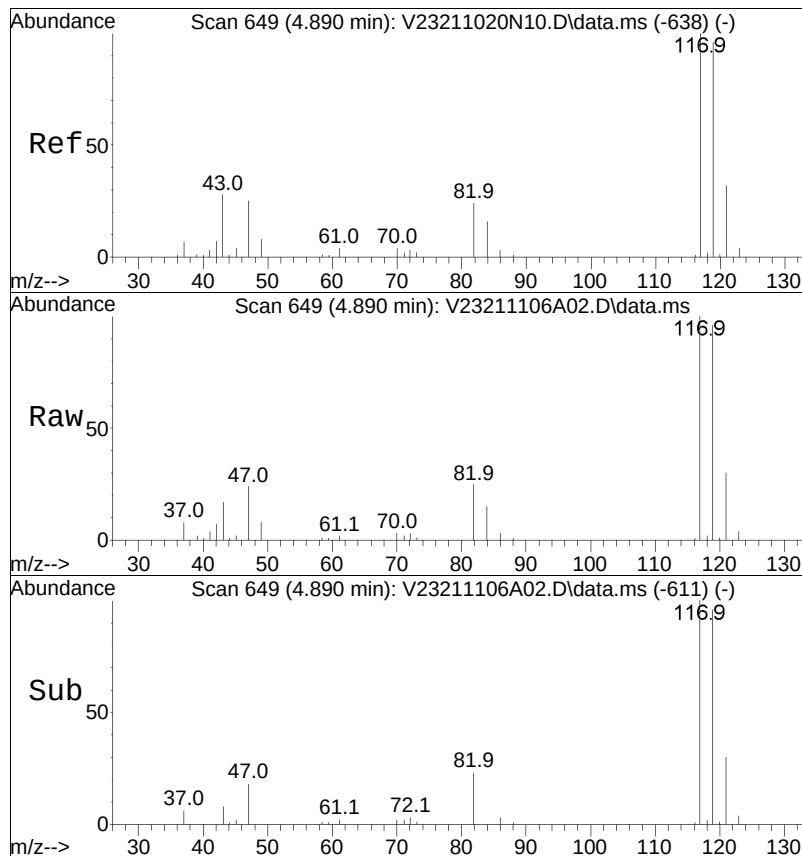




#32
 Chloroform
 Concen: 39.51 ug/L
 RT: 4.753 min Scan# 623
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

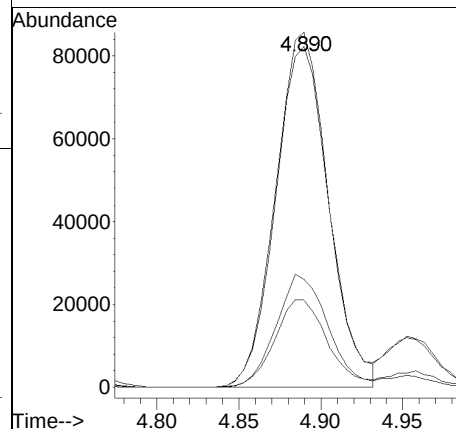
Tgt	Ion: 83	Resp:	219802
Ion	Ratio	Lower	Upper
83	100		
85	66.1	42.1	87.3
47	25.9	14.0	29.2
48	13.3	7.2	14.9

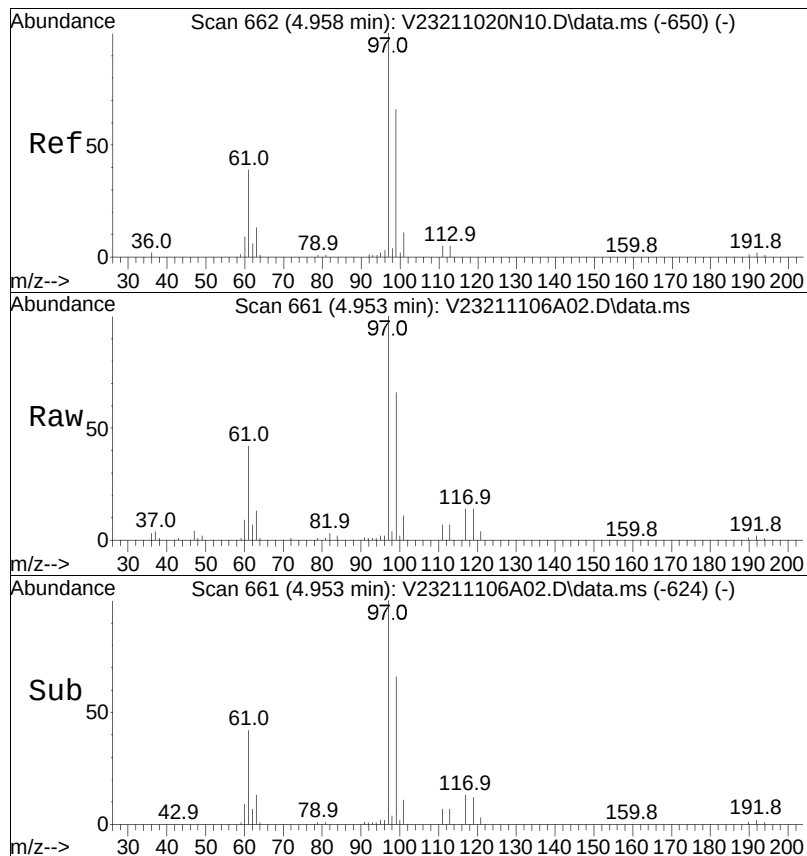




#34
Carbon tetrachloride
Concen: 45.43 ug/L
RT: 4.890 min Scan# 649
Delta R.T. -0.000 min
Lab File: V23211106A02.D
Acq: 06 Nov 2021 06:30 am

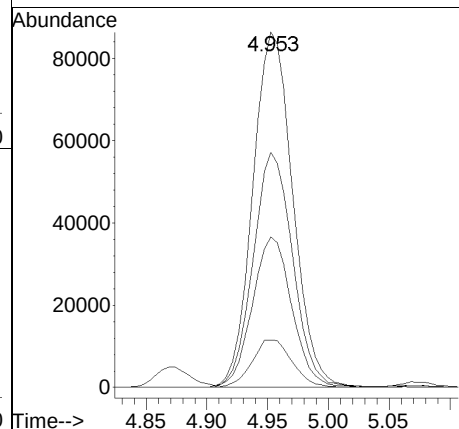
Tgt	Ion:117	Resp:	192006
Ion	Ratio	Lower	Upper
117	100		
119	97.2	62.7	130.3
121	31.3	20.3	42.1
82	24.9	16.4	34.2

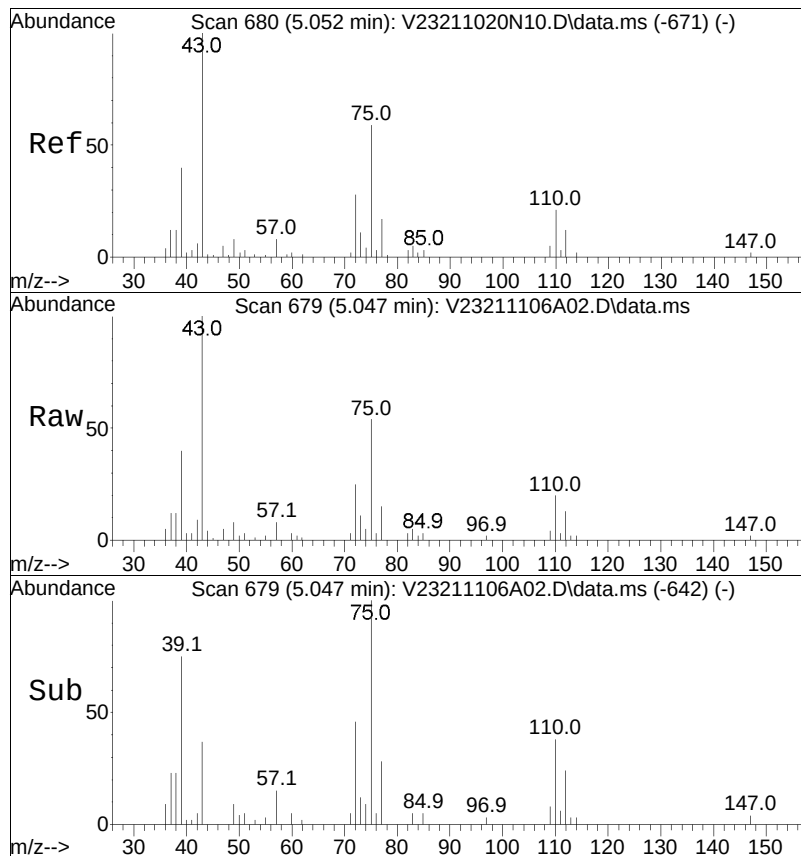




#37
 1,1,1-Trichloroethane
 Concen: 44.36 ug/L
 RT: 4.953 min Scan# 661
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

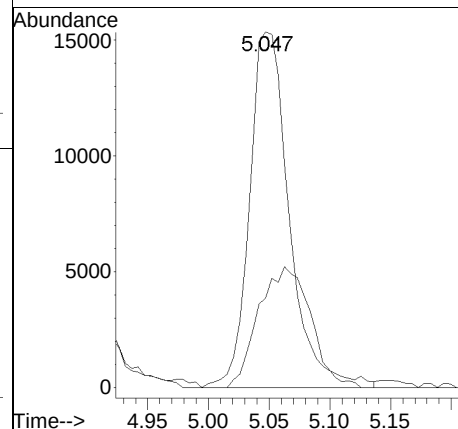
Tgt Ion:	97	Resp:	198136
Ion Ratio	Lower	Upper	
97	100		
99	65.4	41.5	86.3
61	41.9	27.4	57.0
63	13.4	9.0	18.6

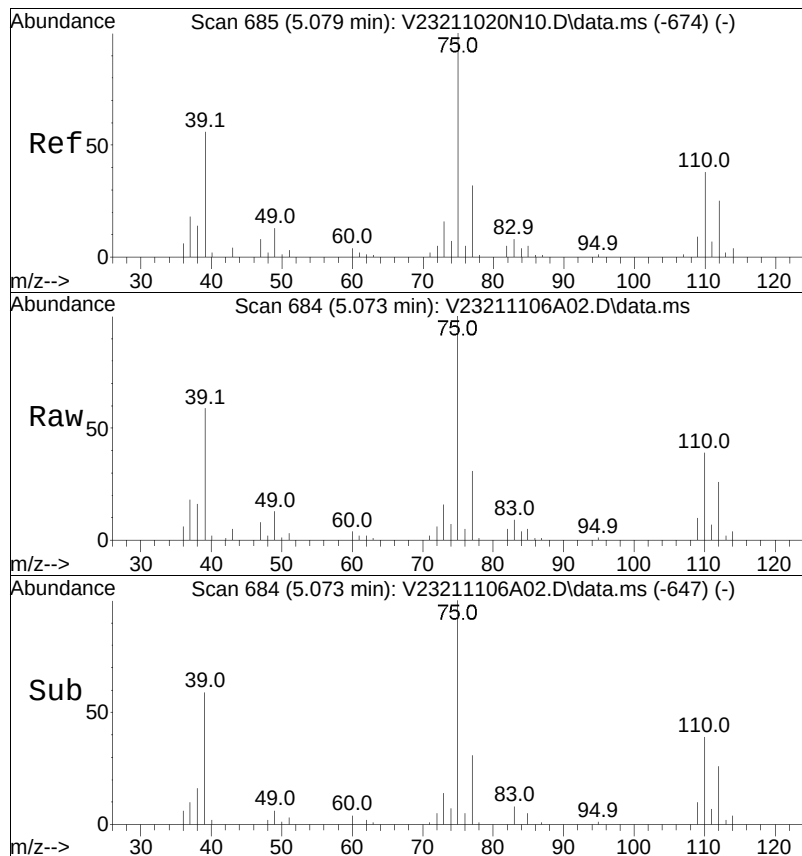




#39
 2-Butanone
 Concen: 38.17 ug/L
 RT: 5.047 min Scan# 679
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

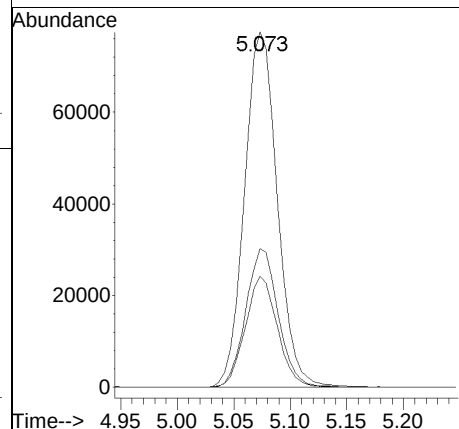
Tgt	Ion	Ratio	Lower	Upper
43	100			
72	44.2	30.4	45.6	

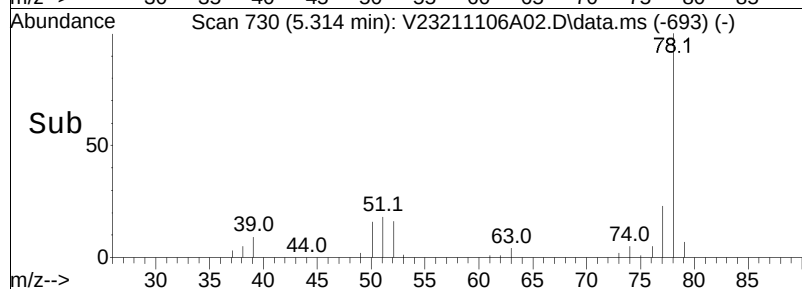
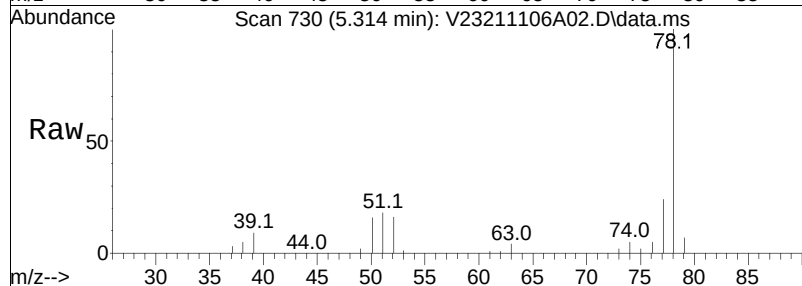
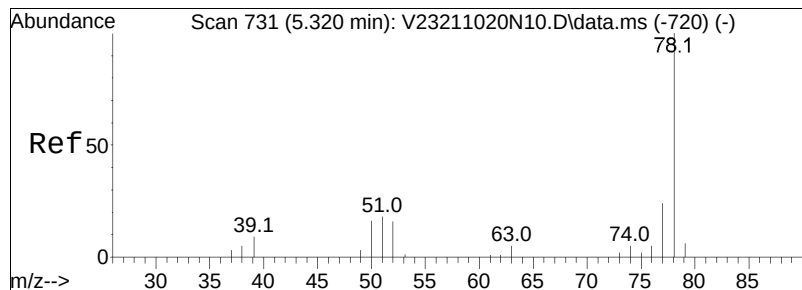




#40
 1,1-Dichloropropene
 Concen: 44.29 ug/L
 RT: 5.073 min Scan# 684
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

Tgt	Ion: 75	Resp:	156754
Ion	Ratio	Lower	Upper
75	100		
110	38.6	23.6	49.0
77	30.6	20.4	42.4





#41

Benzene

Concen: 41.47 ug/L

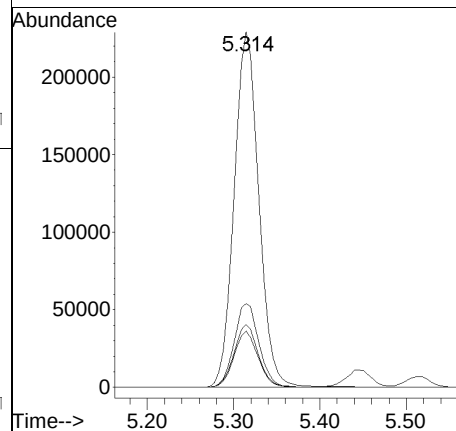
RT: 5.314 min Scan# 730

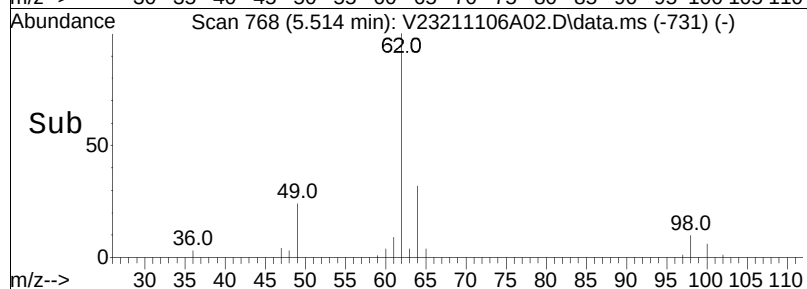
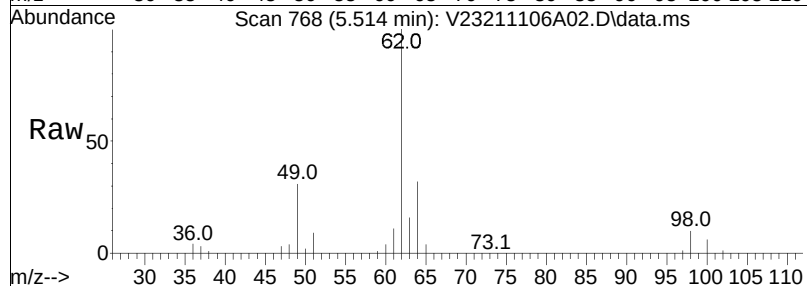
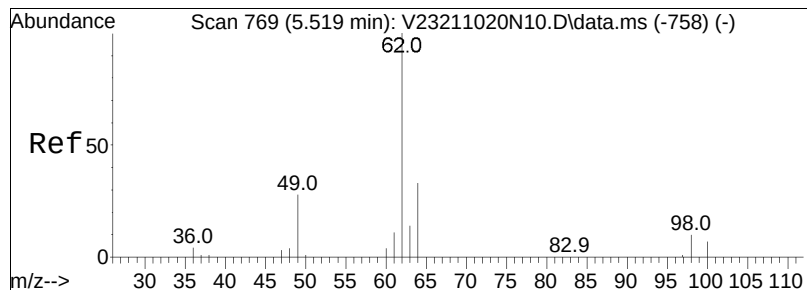
Delta R.T. -0.006 min

Lab File: V23211106A02.D

Acq: 06 Nov 2021 06:30 am

Tgt	Ion: 78	Resp:	455244
Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.7	32.5
51	17.5	9.9	20.5
52	15.6	9.5	19.7





#44

1,2-Dichloroethane

Concen: 39.91 ug/L

RT: 5.514 min Scan# 768

Delta R.T. -0.005 min

Lab File: V23211106A02.D

Acq: 06 Nov 2021 06:30 am

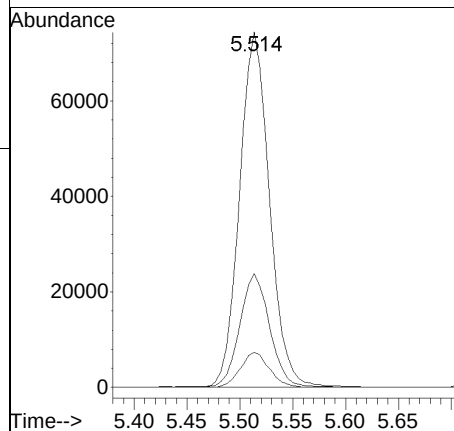
Tgt Ion: 62 Resp: 146651

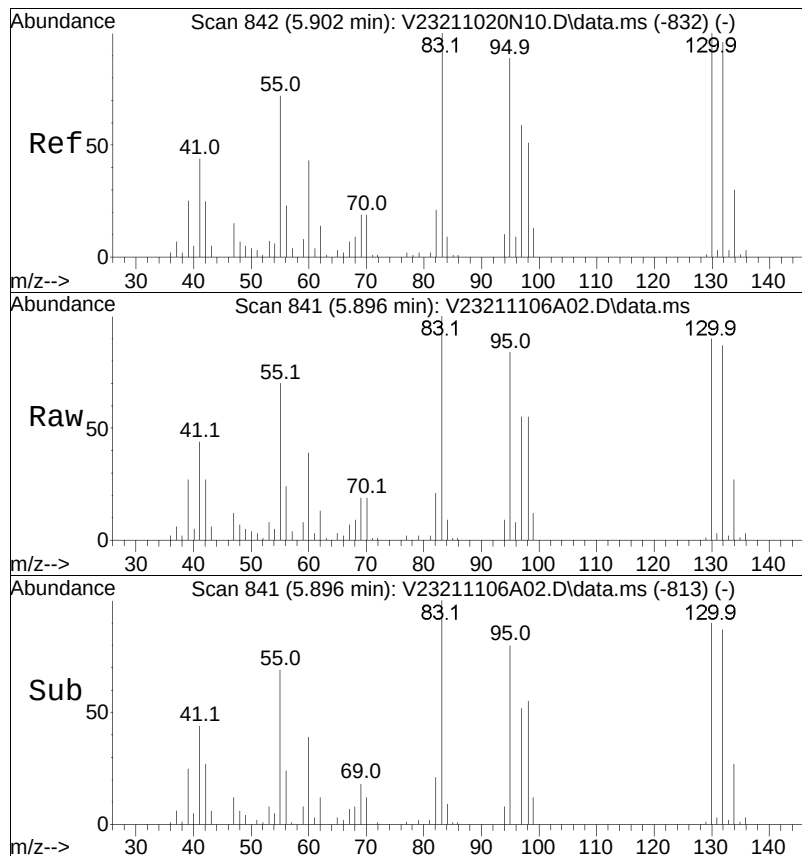
Ion Ratio Lower Upper

62 100

64 32.1 12.7 52.7

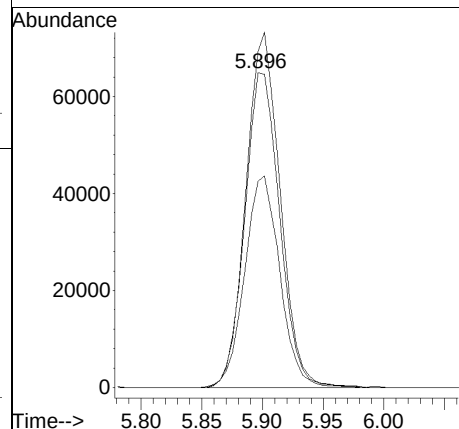
98 9.6 0.0 29.7

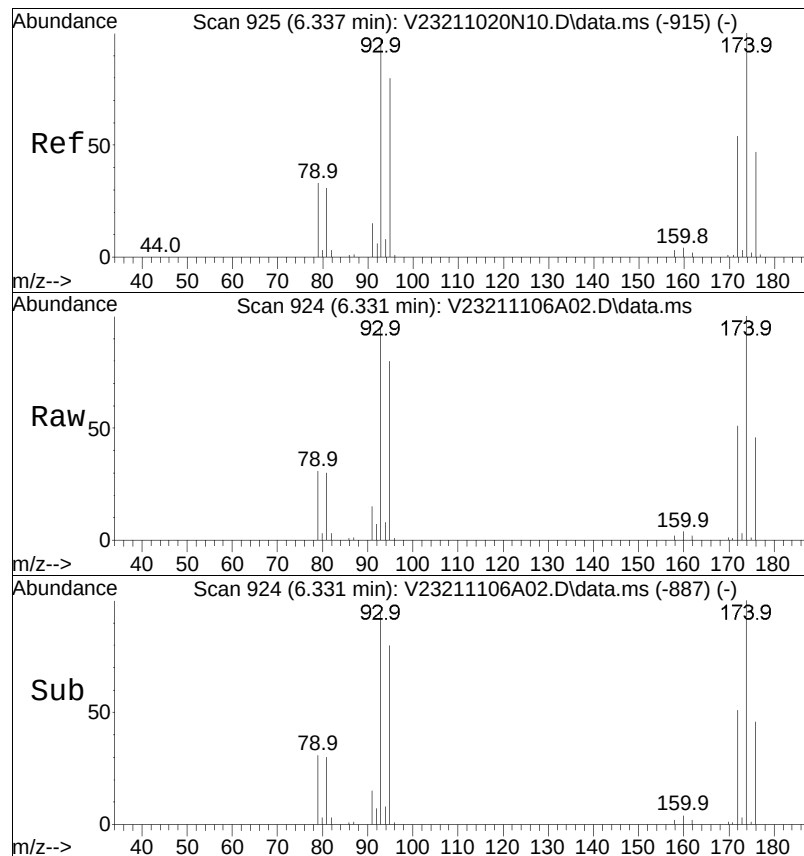




#48
 Trichloroethene
 Concen: 42.79 ug/L
 RT: 5.896 min Scan# 841
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

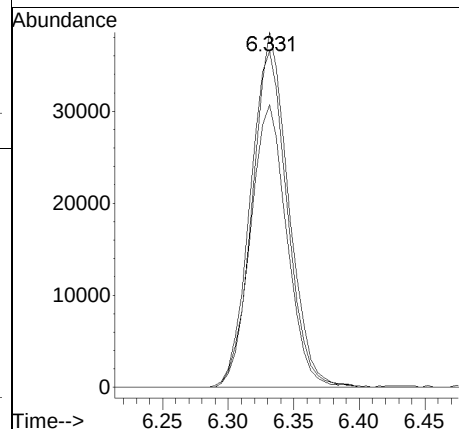
Tgt	Ion	Resp	Lower	Upper
95	100			
97	67.8	54.3	81.5	
130	110.7	82.2	123.2	

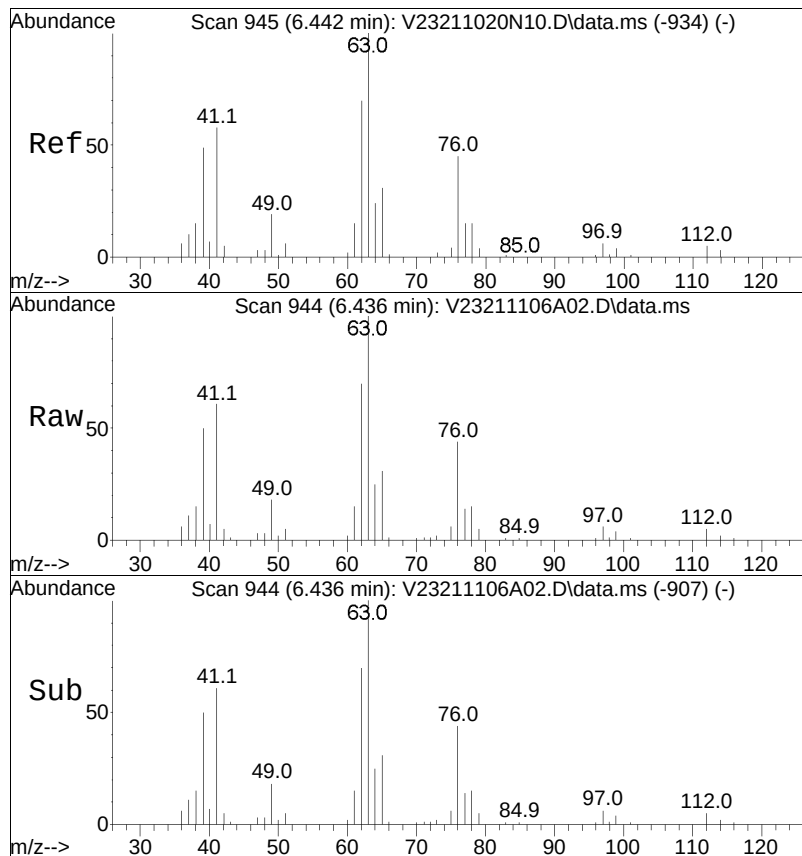




#50
 Dibromomethane
 Concen: 40.25 ug/L
 RT: 6.331 min Scan# 924
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

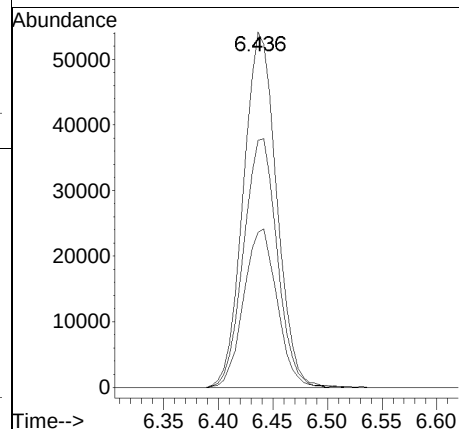
Tgt Ion:	93	Resp:	72136
Ion Ratio	Lower	Upper	
93	100		
95	82.6	66.1	99.1
174	101.7	84.2	126.2

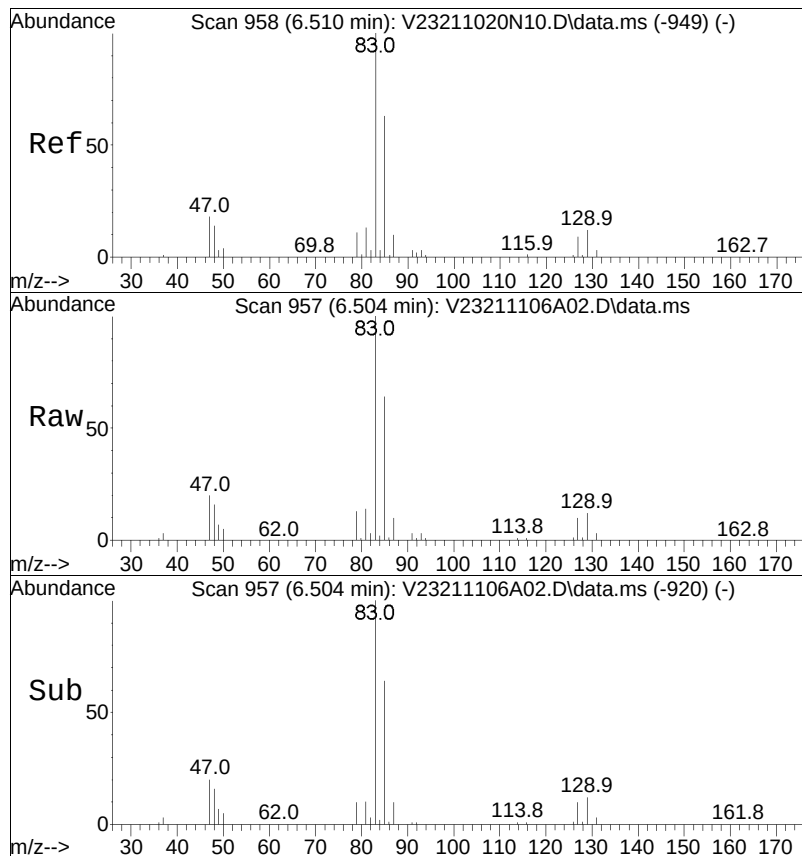




#51
 1,2-Dichloropropane
 Concen: 40.50 ug/L
 RT: 6.436 min Scan# 944
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

Tgt	Ion	Ratio	Lower	Upper
63	100			
62	70.5	56.9	85.3	
76	44.6	35.0	52.4	





#54

Bromodichloromethane

Concen: 42.81 ug/L

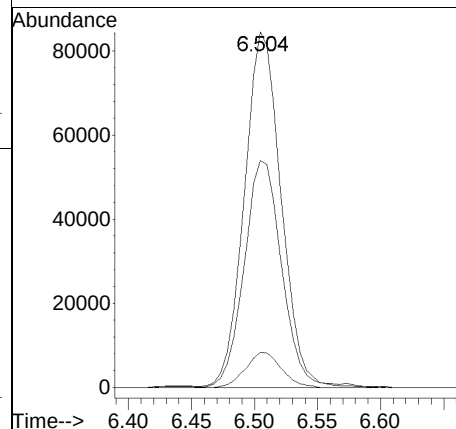
RT: 6.504 min Scan# 957

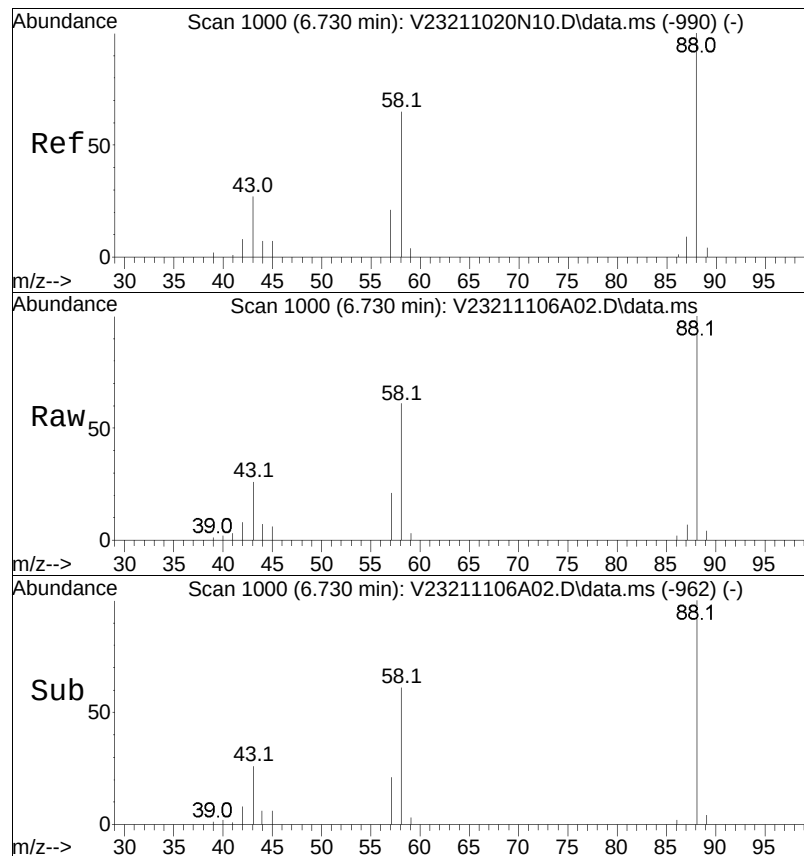
Delta R.T. -0.006 min

Lab File: V23211106A02.D

Acq: 06 Nov 2021 06:30 am

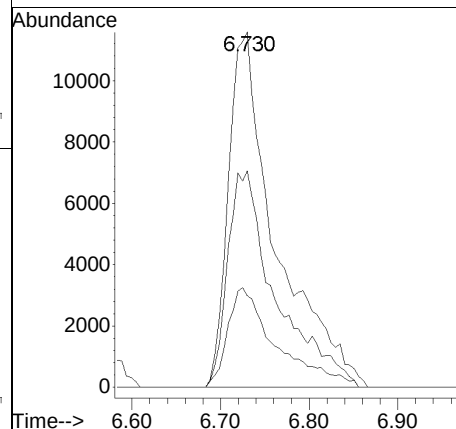
Tgt	Ion: 83	Resp:	171200
Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.3	76.9
127	9.6	6.5	9.7

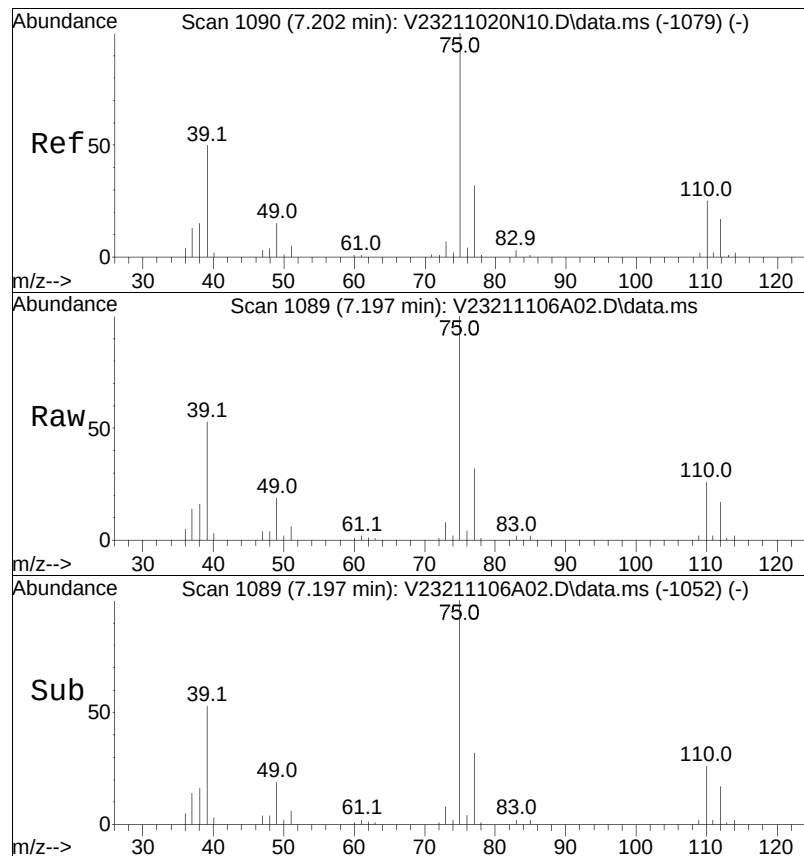




#57
 1,4-Dioxane
 Concen: 2006.08 ug/L
 RT: 6.730 min Scan# 1000
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

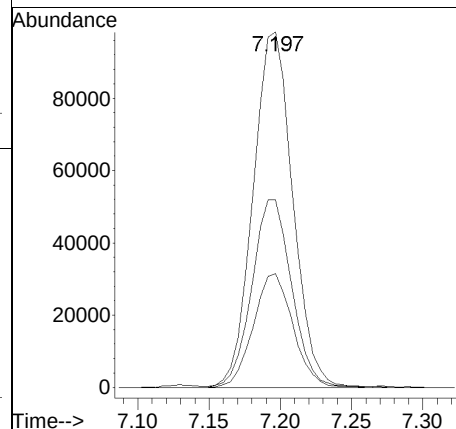
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	61.7	50.2	75.2	
43	28.9	19.1	28.7	

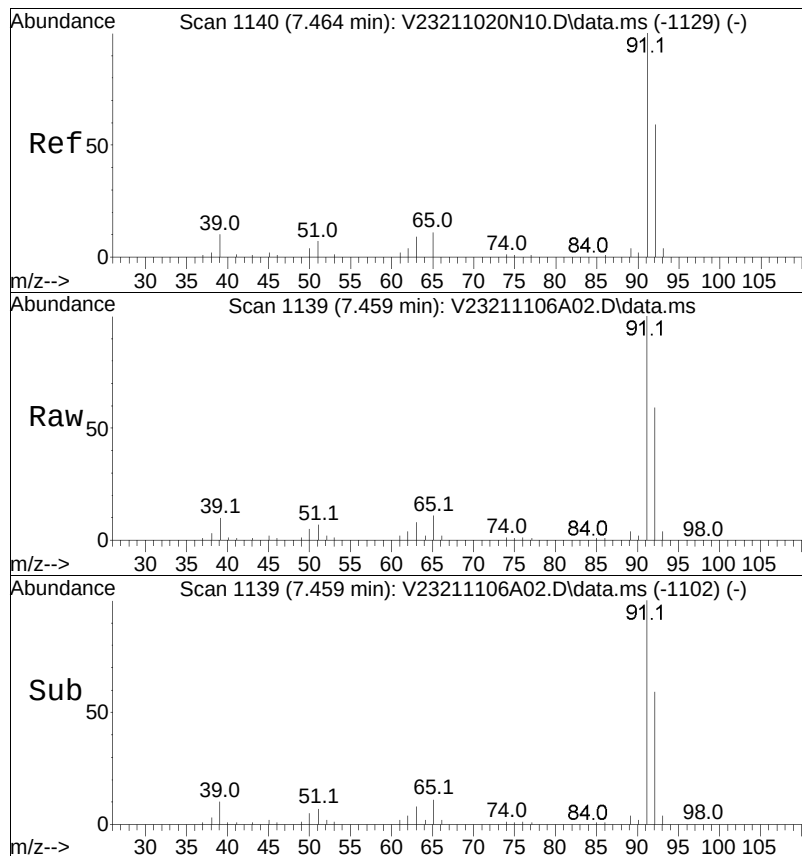




#58
 cis-1,3-Dichloropropene
 Concen: 43.29 ug/L
 RT: 7.197 min Scan# 1089
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

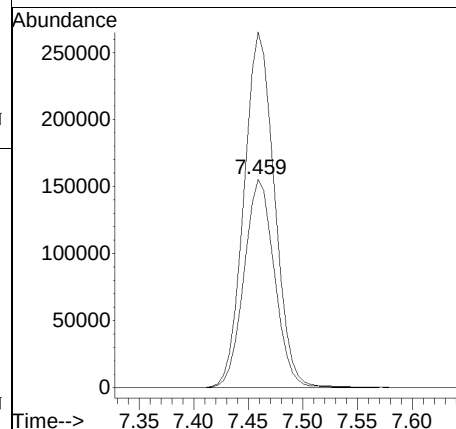
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.9	38.9
39	53.2	34.5	51.7#

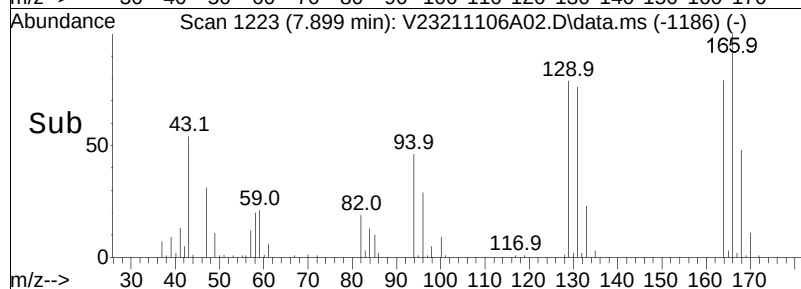
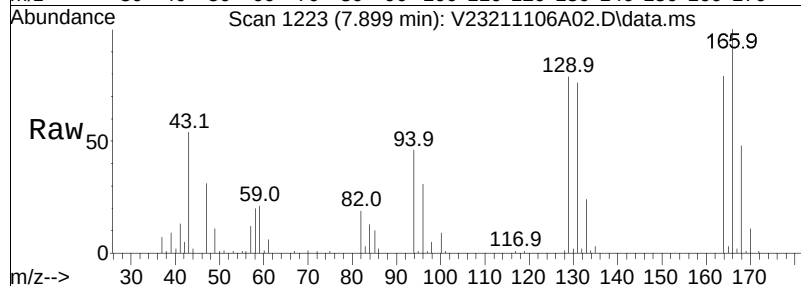
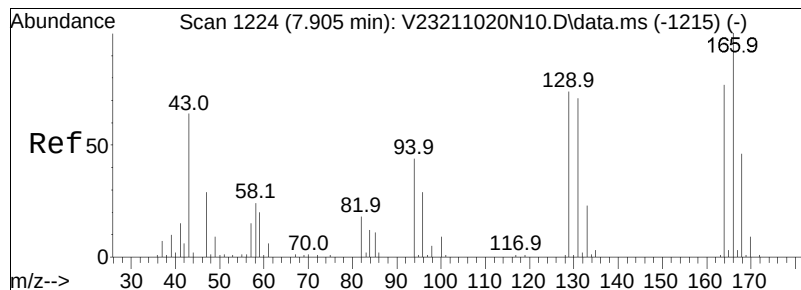




#61
 Toluene
 Concen: 45.05 ug/L
 RT: 7.459 min Scan# 1139
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

Tgt Ion	Ratio	Lower	Upper
92	100		
91	171.4	136.4	204.6





#62

4-Methyl-2-pentanone

Concen: 41.24 ug/L

RT: 7.899 min Scan# 1223

Delta R.T. -0.006 min

Lab File: V23211106A02.D

Acq: 06 Nov 2021 06:30 am

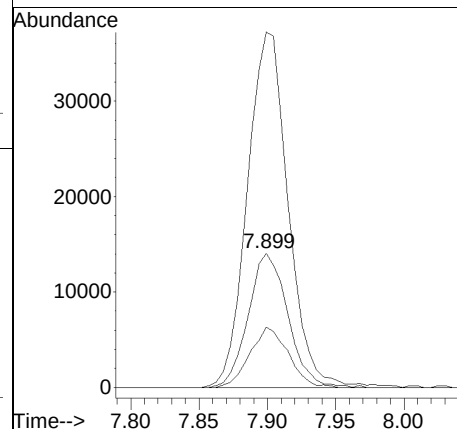
Tgt Ion: 58 Resp: 28360

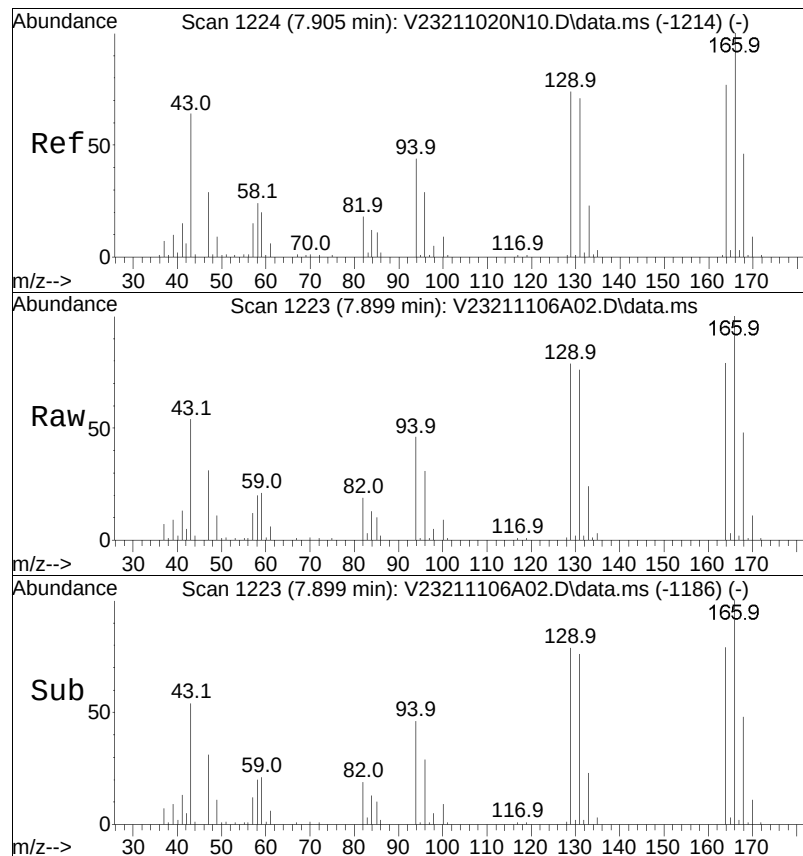
Ion Ratio Lower Upper

58 100

100 43.5 33.1 49.7

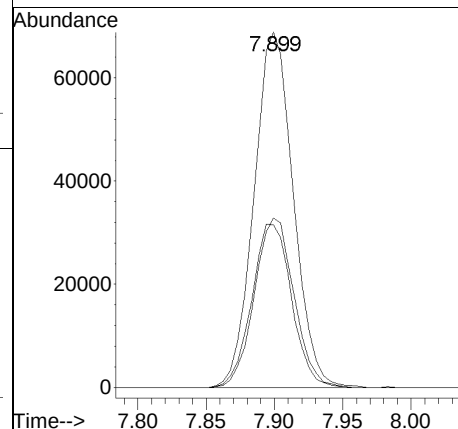
43 272.6 179.0 268.6#

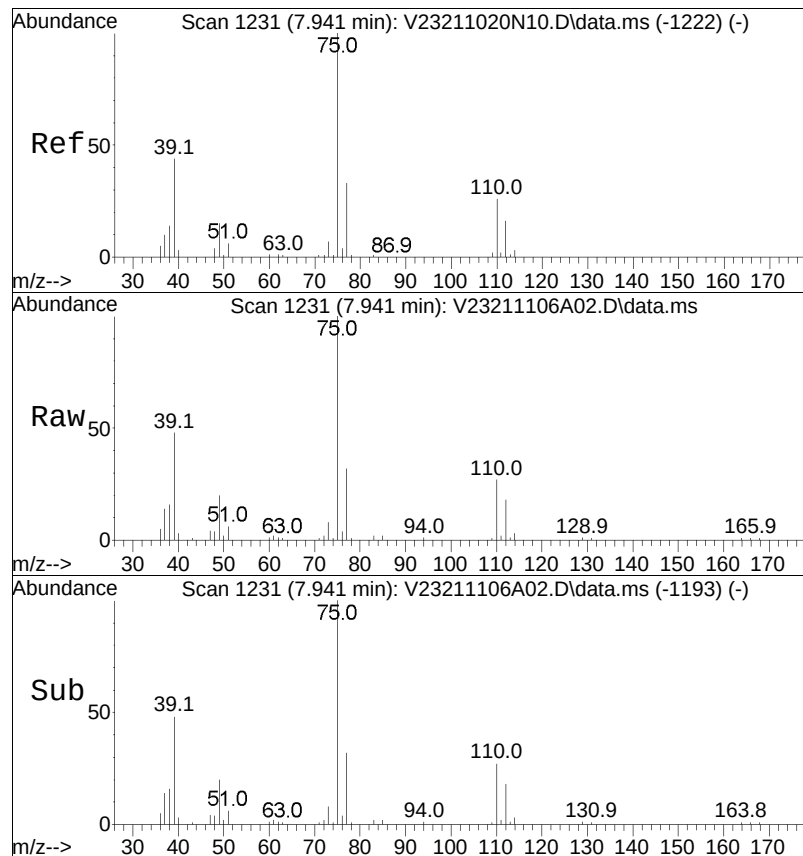




#63
Tetrachloroethene
Concen: 46.23 ug/L
RT: 7.899 min Scan# 1223
Delta R.T. -0.006 min
Lab File: V23211106A02.D
Acq: 06 Nov 2021 06:30 am

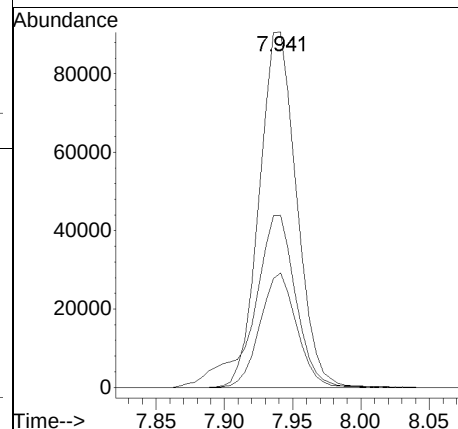
Tgt	Ion:166	Resp:	137555
Ion	Ratio	Lower	Upper
166	100		
168	47.9	28.0	68.0
94	46.6	23.3	63.3

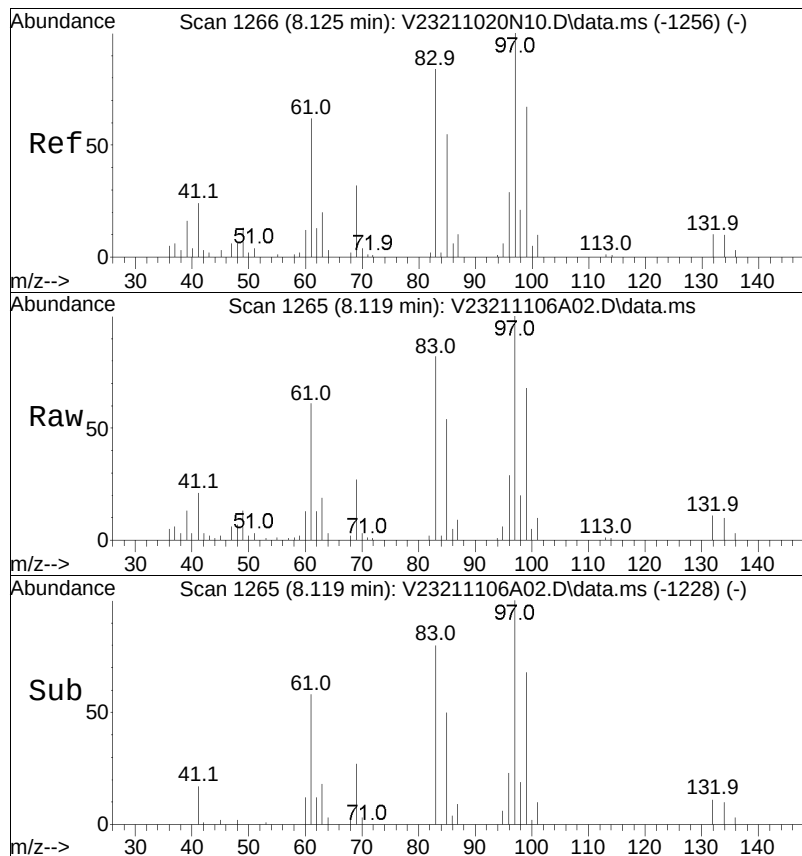




#65
 trans-1,3-Dichloropropene
 Concen: 47.97 ug/L
 RT: 7.941 min Scan# 1231
 Delta R.T. 0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

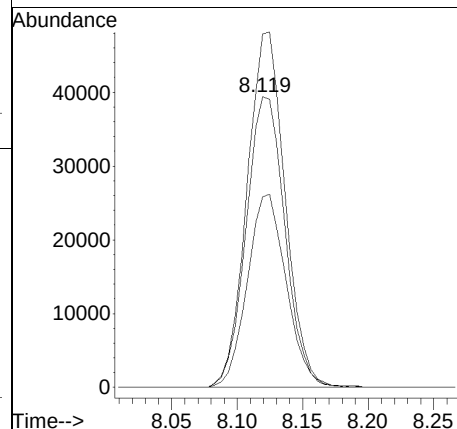
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	12.7	52.7
39	55.2	29.5	69.5

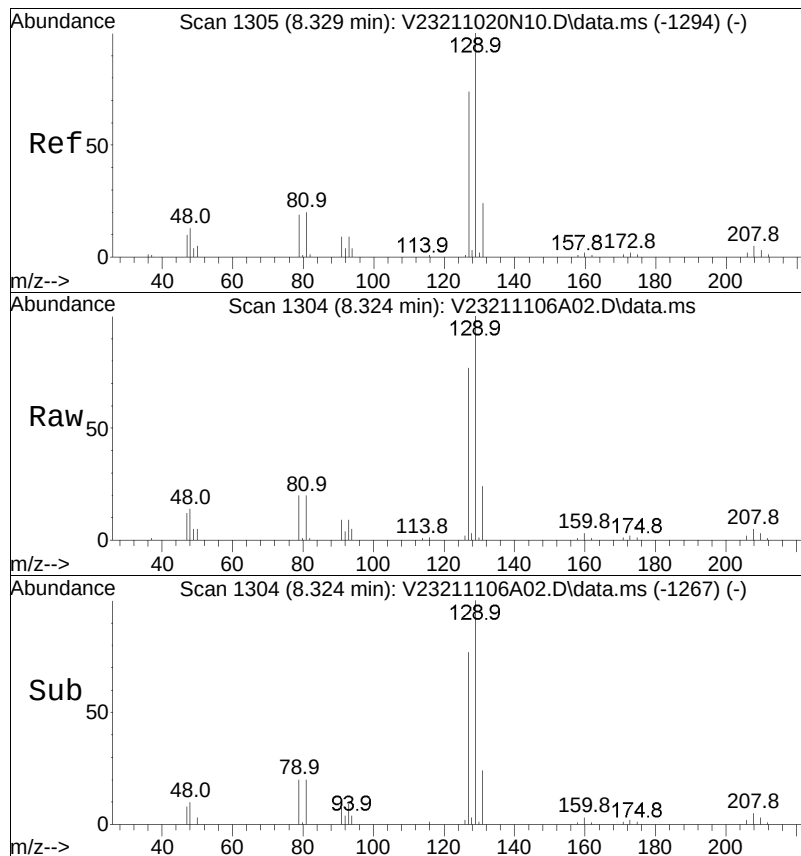




#68
 1,1,2-Trichloroethane
 Concen: 42.63 ug/L
 RT: 8.119 min Scan# 1265
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

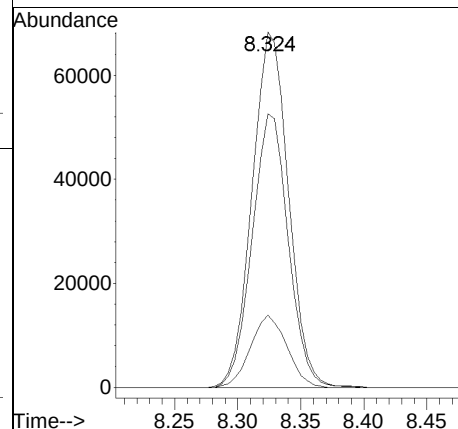
Tgt Ion:	83	Resp:	81119
Ion Ratio	Lower	Upper	
83	100		
97	120.0	99.1	139.1
85	66.7	46.8	86.8

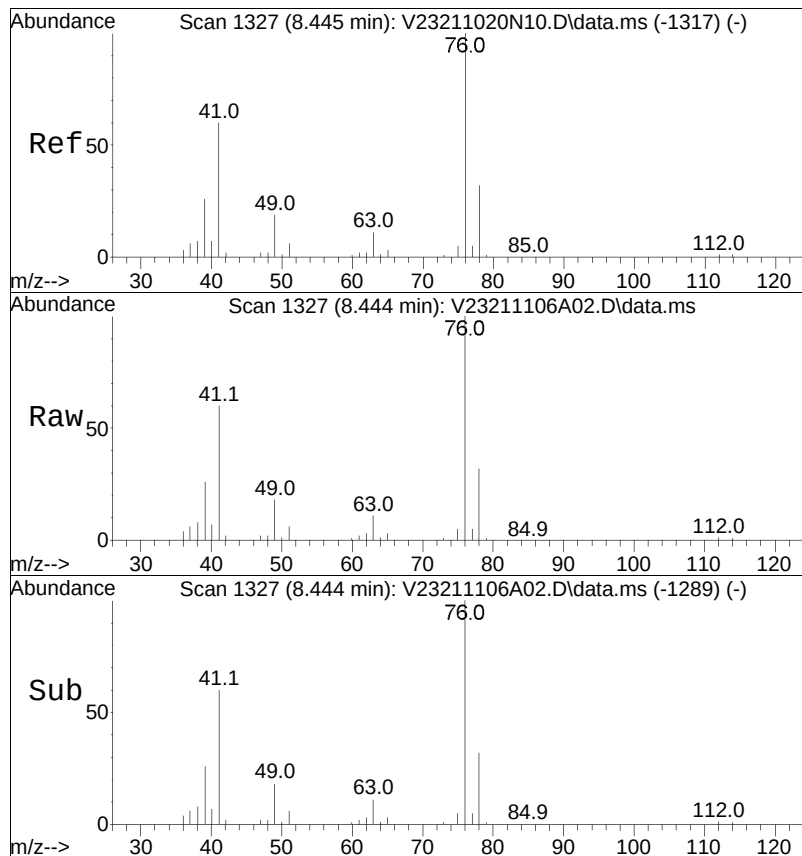




#69
 Chlorodibromomethane
 Concen: 42.80 ug/L
 RT: 8.324 min Scan# 1304
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

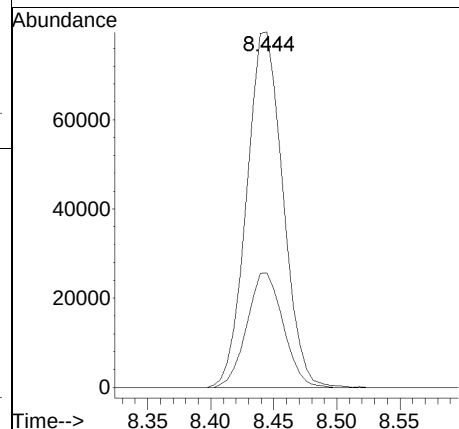
Tgt Ion	129	Resp	137	117
Ion Ratio	Lower	Upper		
129	100			
81	20.3	0.0	35.1	
127	76.4	57.6	97.6	

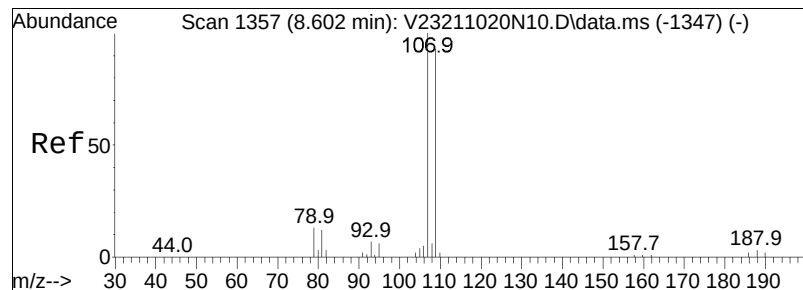




#70
 1,3-Dichloropropane
 Concen: 42.70 ug/L
 RT: 8.444 min Scan# 1327
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

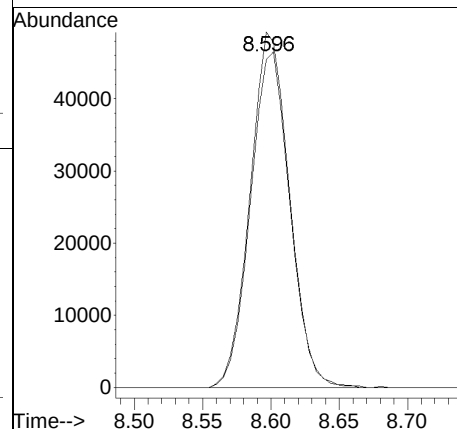
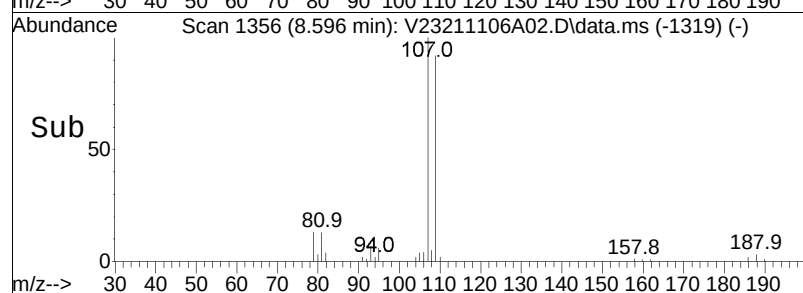
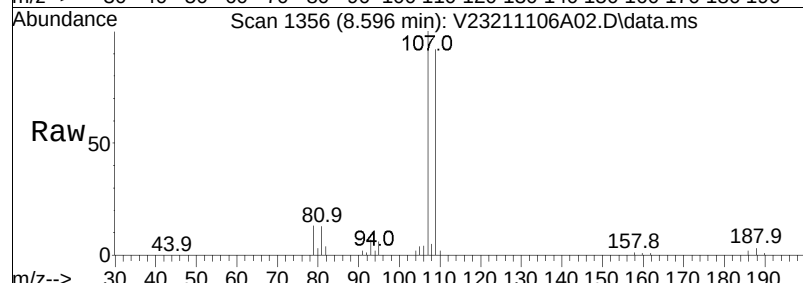
Tgt	Ion	Resp	Lower	Upper
76	100			
78	32.3	26.2	39.2	

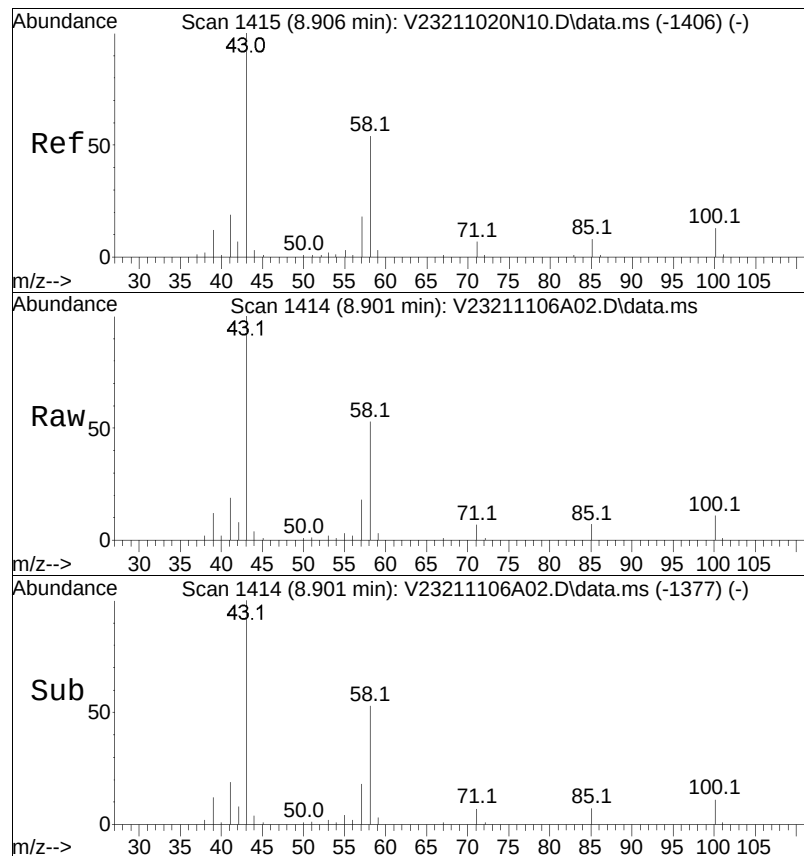




#71
 1,2-Dibromoethane
 Concen: 44.30 ug/L
 RT: 8.596 min Scan# 1356
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

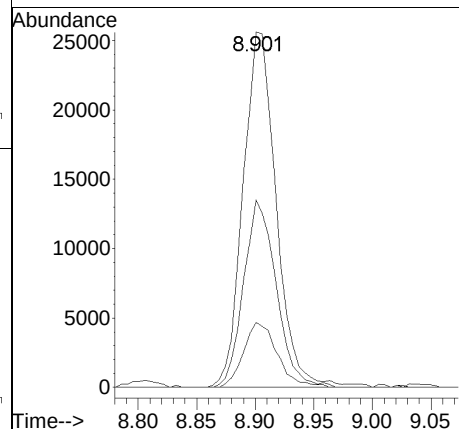
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.1	114.1

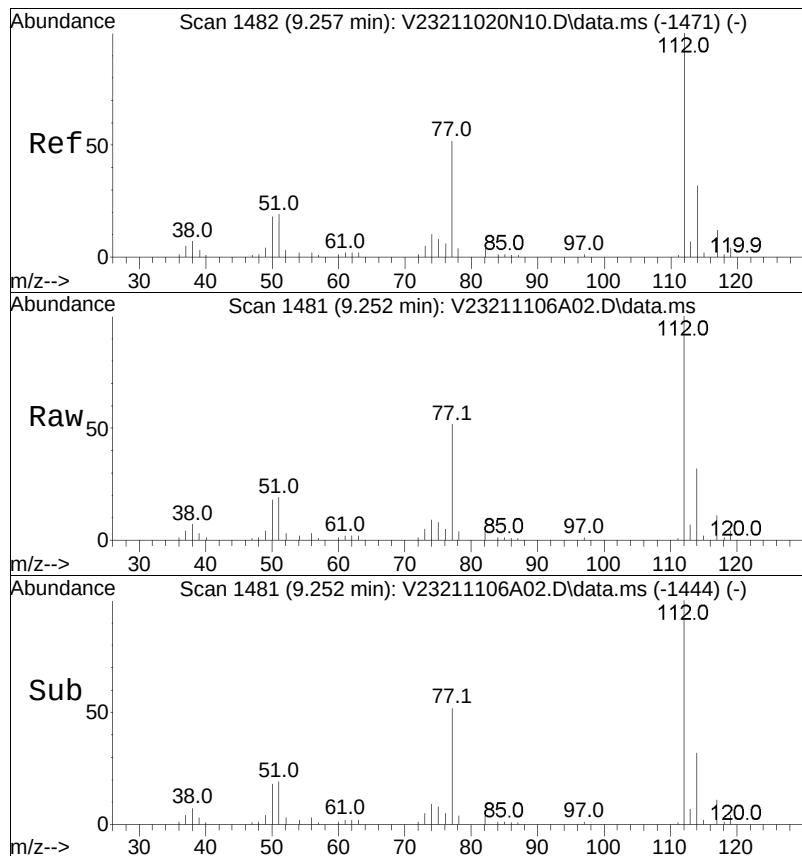




#72
 2-Hexanone
 Concen: 39.90 ug/L
 RT: 8.901 min Scan# 1414
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

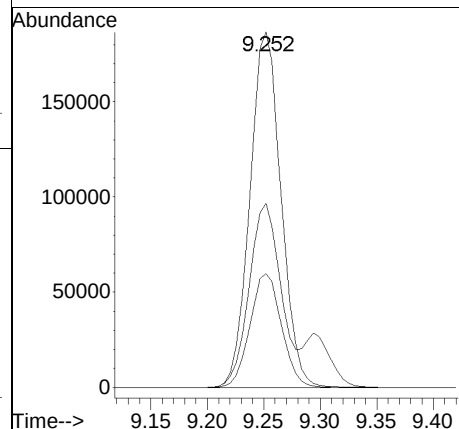
Tgt Ion:	43	Resp:	50594
Ion Ratio	Lower	Upper	
43	100		
58	51.9	49.2	73.8
57	18.6	17.4	26.2

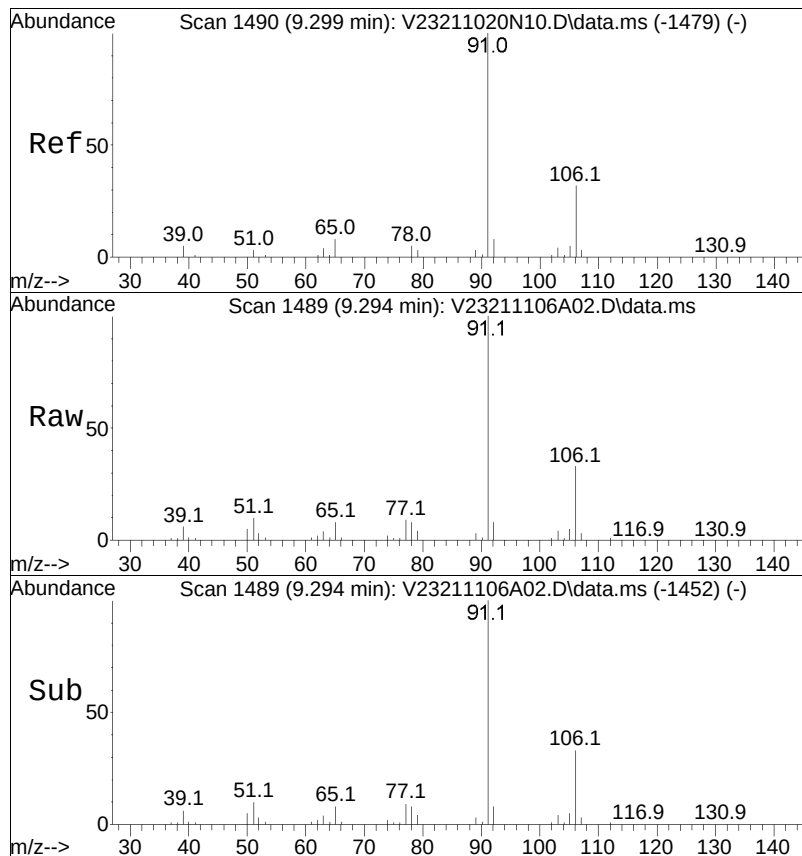




#73
 Chlorobenzene
 Concen: 45.60 ug/L
 RT: 9.252 min Scan# 1481
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

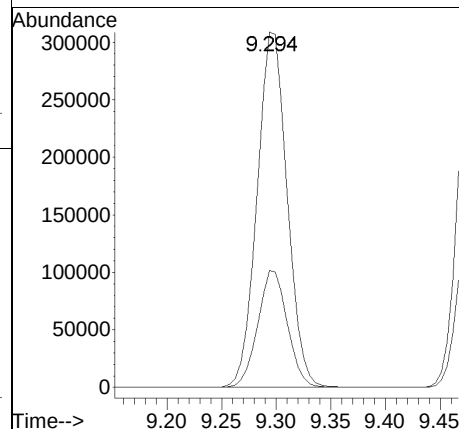
Tgt	Ion:112	Resp:	356803
Ion	Ratio	Lower	Upper
112	100		
77	52.8	58.5	87.7#
114	32.4	25.8	38.6

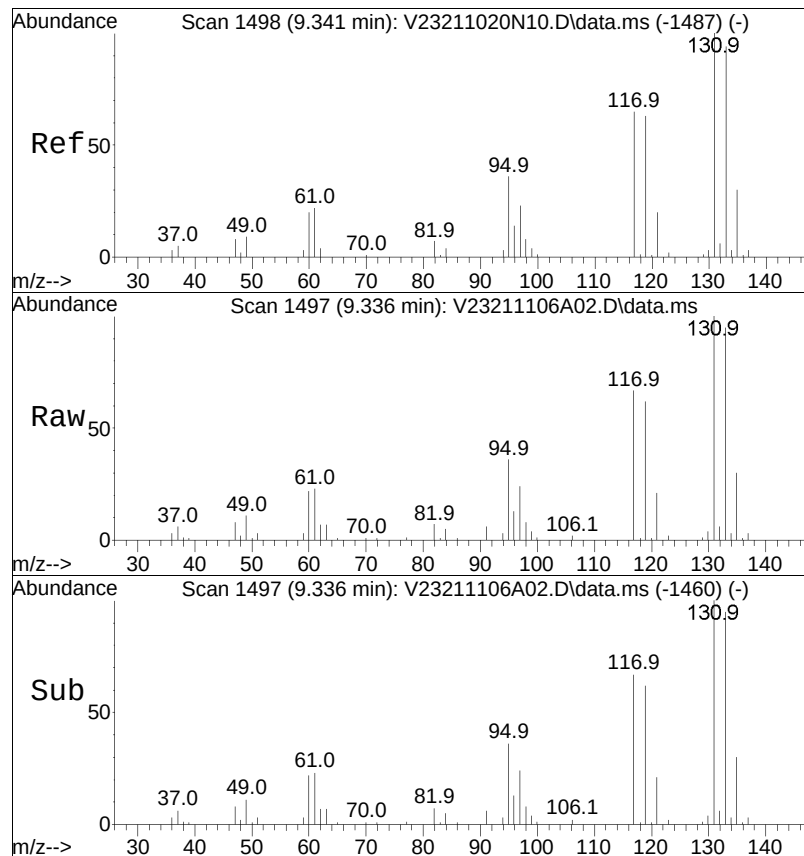




#74
 Ethylbenzene
 Concen: 45.61 ug/L
 RT: 9.294 min Scan# 1489
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

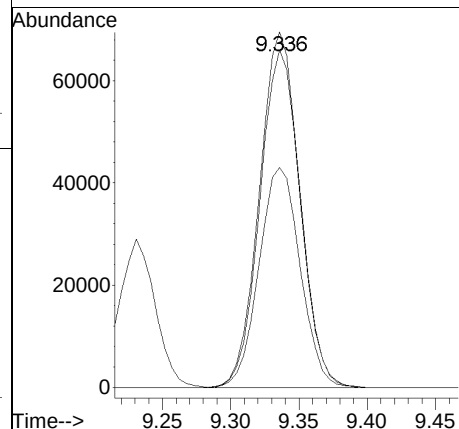
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.2	37.8

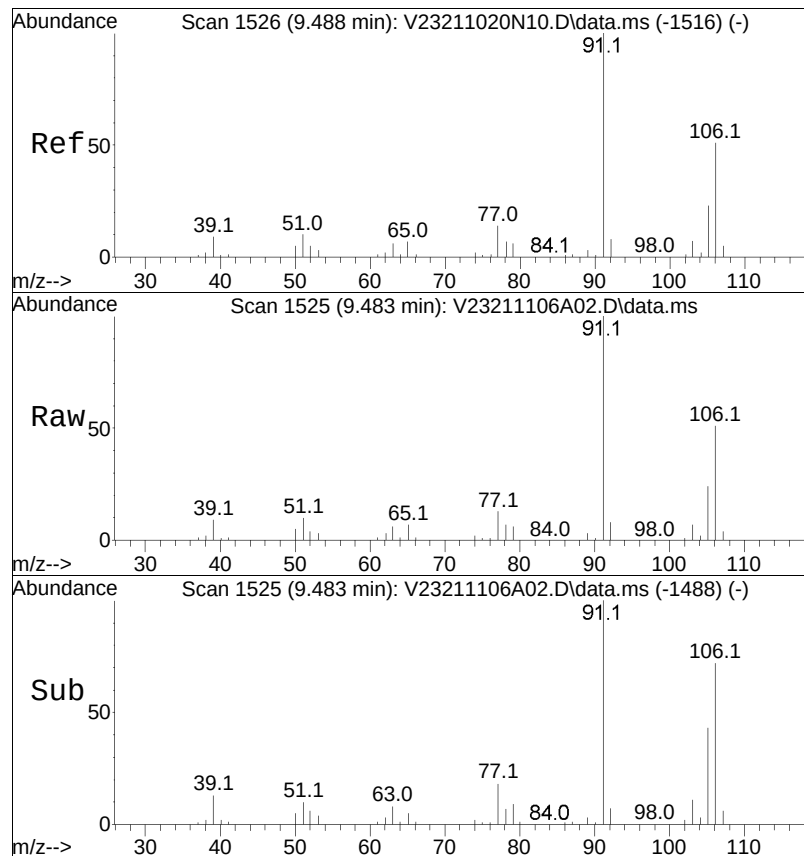




#75
 1,1,1,2-Tetrachloroethane
 Concen: 48.36 ug/L
 RT: 9.336 min Scan# 1497
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

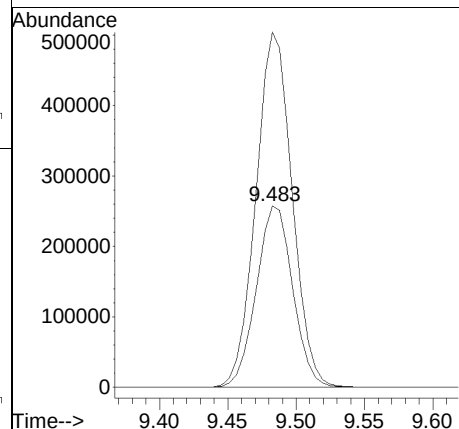
Tgt Ion:	131	Resp:	143132
Ion Ratio	Lower	Upper	
131	100		
133	94.5	75.5	115.5
119	63.0	46.0	86.0

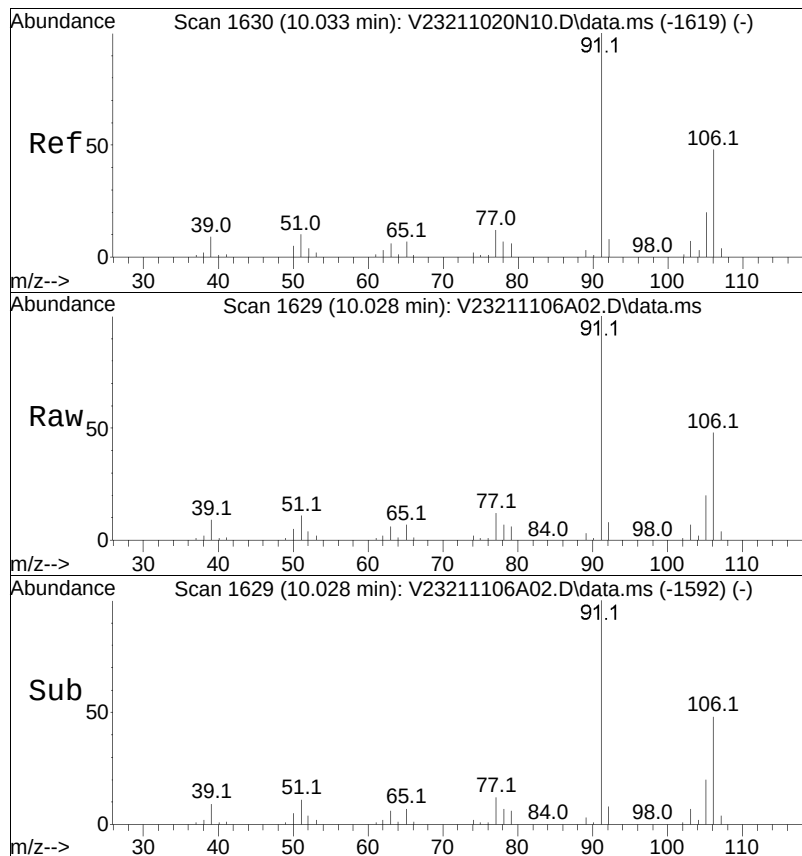




#76
 p/m Xylene
 Concen: 93.55 ug/L
 RT: 9.483 min Scan# 1525
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

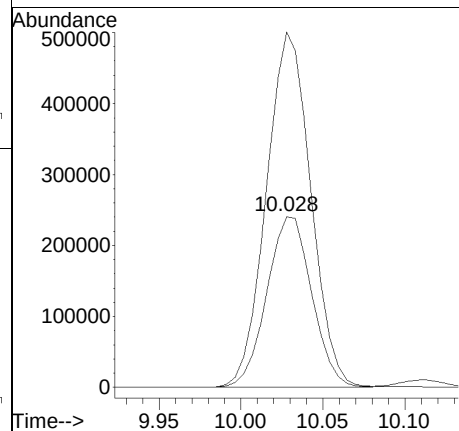
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	194.8	160.4	240.6	

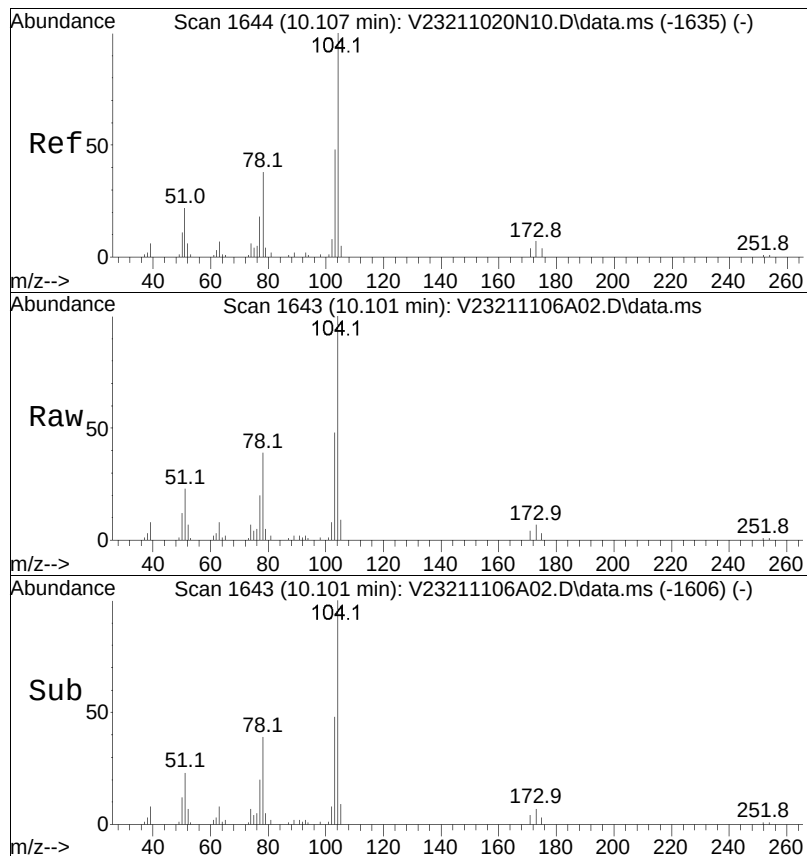




#77
 o Xylene
 Concen: 92.62 ug/L
 RT: 10.028 min Scan# 1629
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

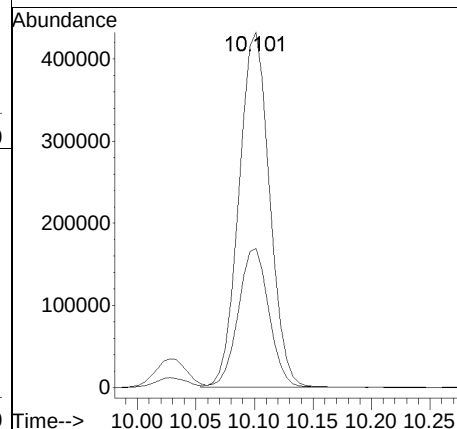
Tgt Ion	Ratio	Lower	Upper
106	100		
91	205.7	169.6	254.4

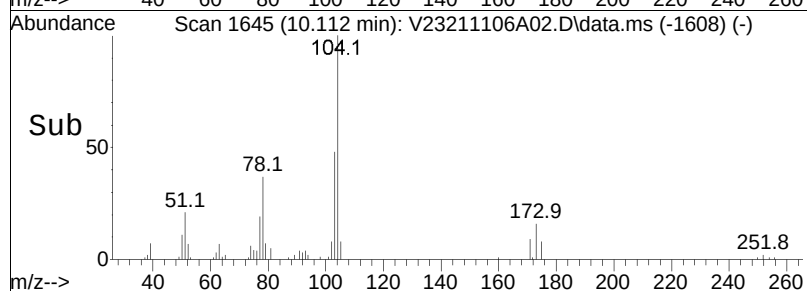
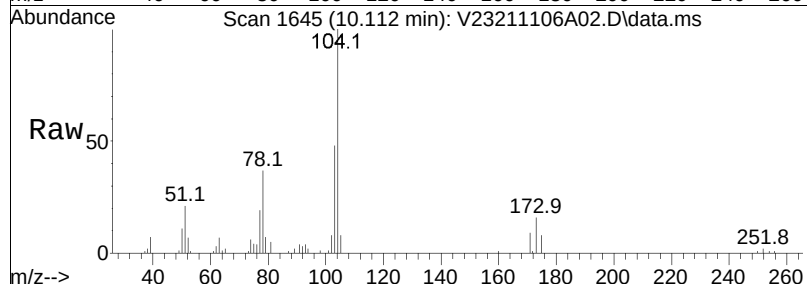
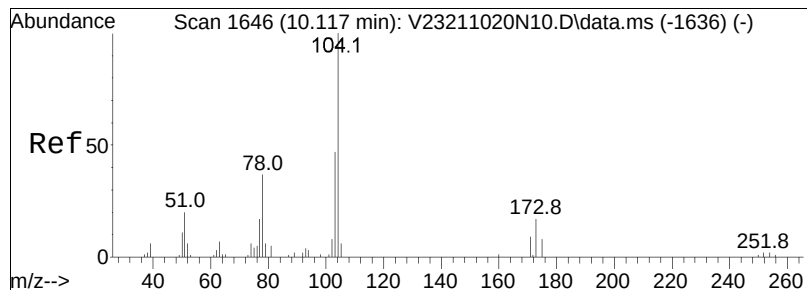




#78
 Styrene
 Concen: 81.72 ug/L
 RT: 10.101 min Scan# 1643
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.2	33.8	50.6





#80

Bromoform

Concen: 42.93 ug/L

RT: 10.112 min Scan# 1645

Delta R.T. -0.005 min

Lab File: V23211106A02.D

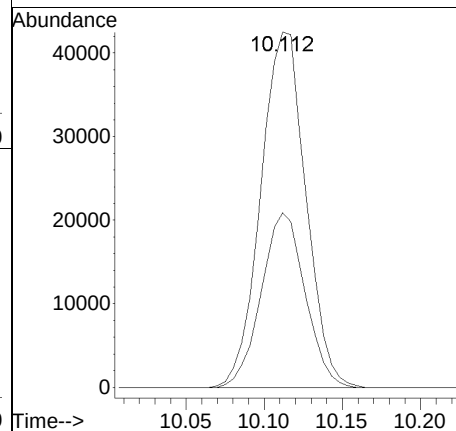
Acq: 06 Nov 2021 06:30 am

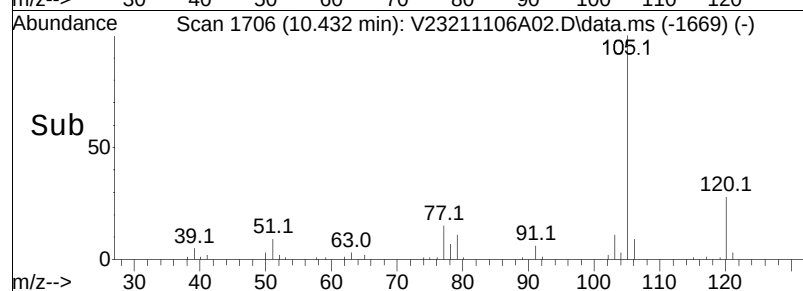
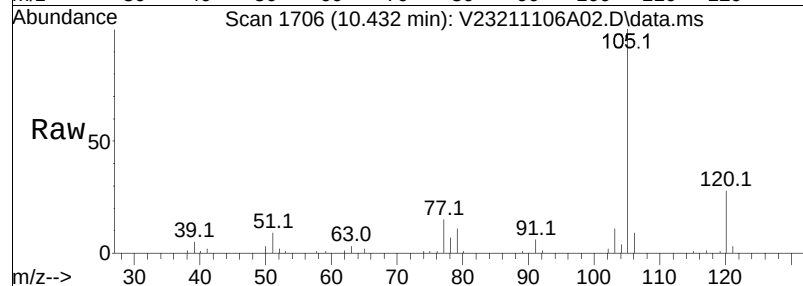
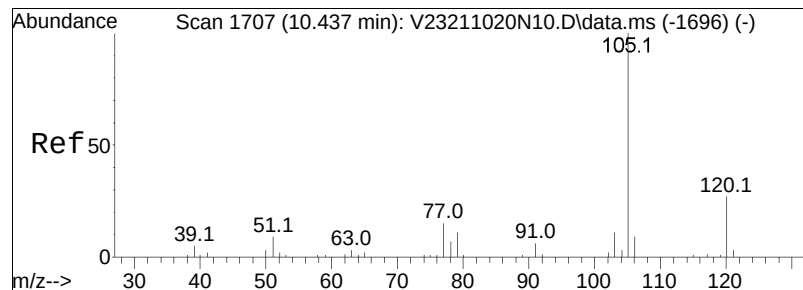
Tgt Ion:173 Resp: 85261

Ion Ratio Lower Upper

173 100

175 47.7 28.7 68.7





#82

Isopropylbenzene

Concen: 47.01 ug/L

RT: 10.432 min Scan# 1706

Delta R.T. -0.005 min

Lab File: V23211106A02.D

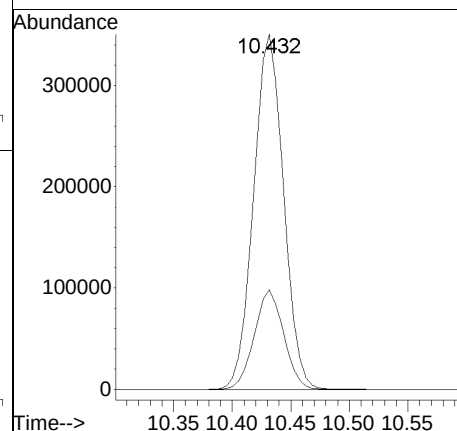
Acq: 06 Nov 2021 06:30 am

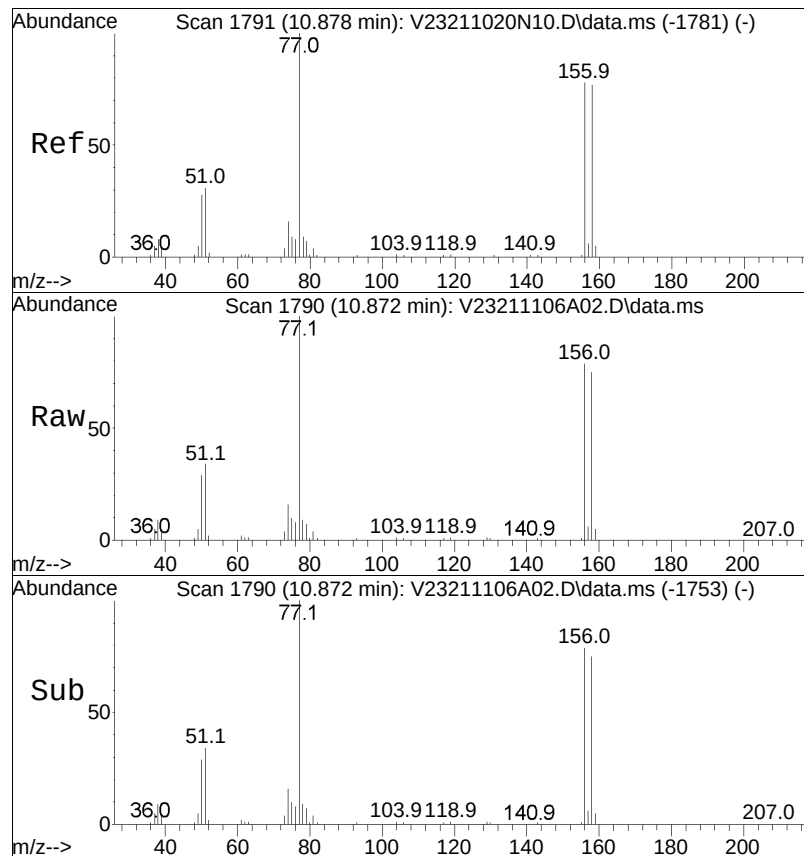
Tgt Ion:105 Resp: 623733

Ion Ratio Lower Upper

105 100

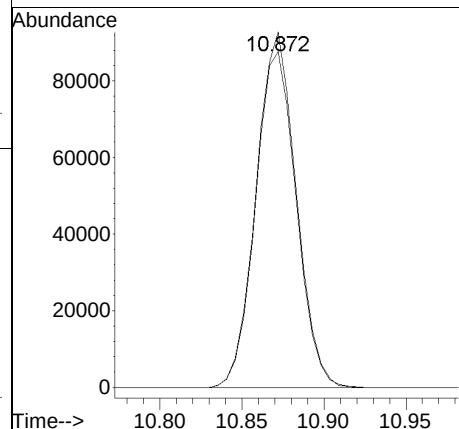
120 27.5 6.6 46.6

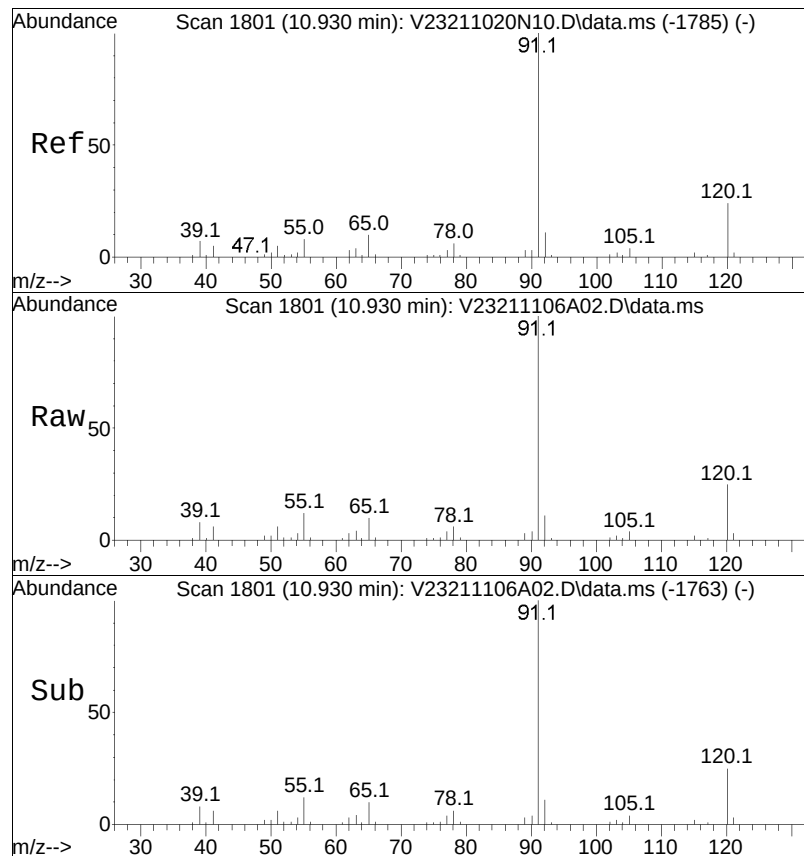




#84
 Bromobenzene
 Concen: 43.05 ug/L
 RT: 10.872 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

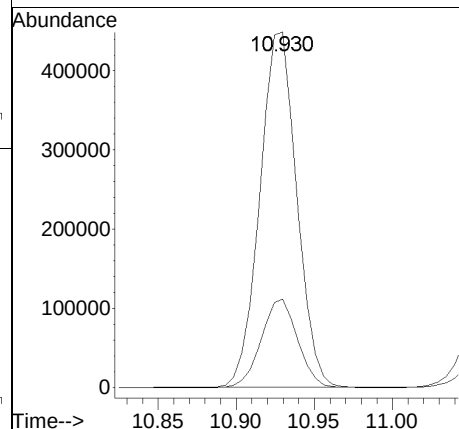
Tgt	Ion	Ratio	Lower	Upper
156	100			
158	96.1	77.7	116.5	

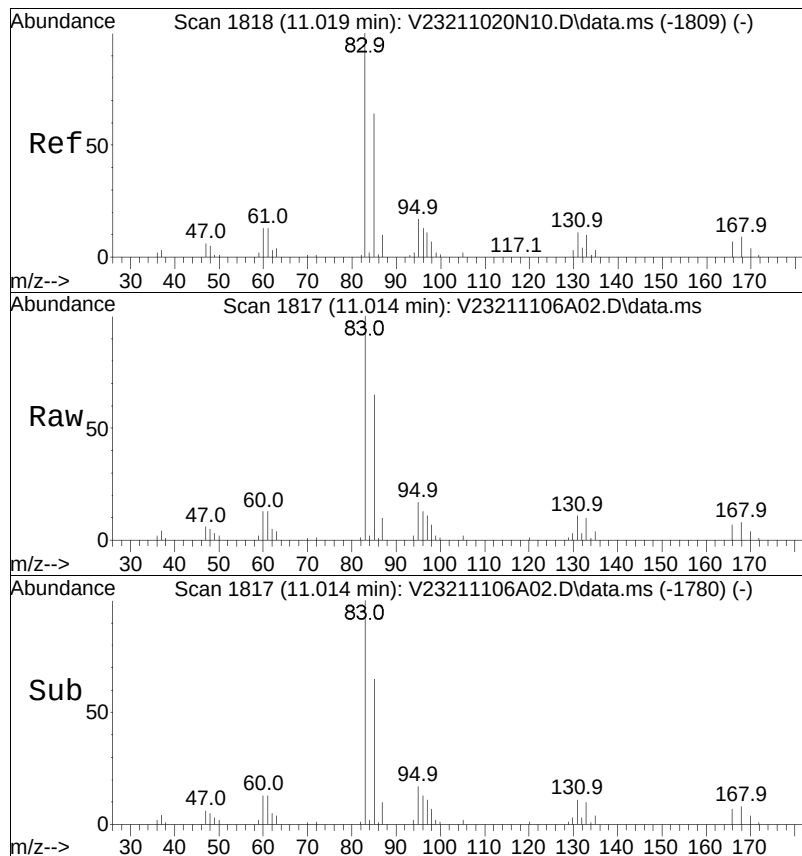




#85
 n-Propylbenzene
 Concen: 46.67 ug/L
 RT: 10.930 min Scan# 1801
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

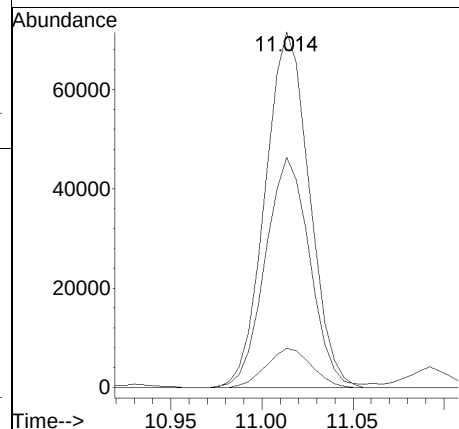
Tgt	Ion	Resp	Lower	Upper
91	100	736950		
120	24.4	18.2	27.2	

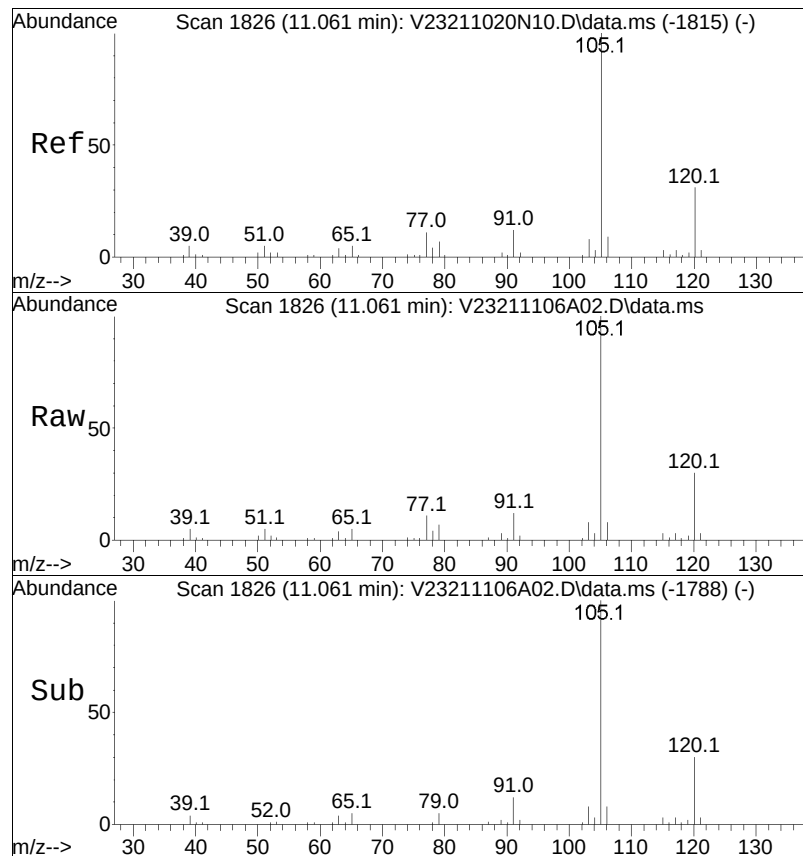




#87
 1,1,2,2-Tetrachloroethane
 Concen: 43.59 ug/L
 RT: 11.014 min Scan# 1817
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

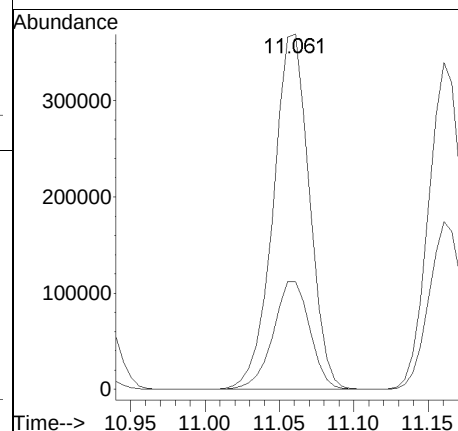
Tgt	Ion: 83	Resp:	120694
Ion	Ratio	Lower	Upper
83	100		
131	11.2	0.0	30.1
85	65.2	45.1	85.1

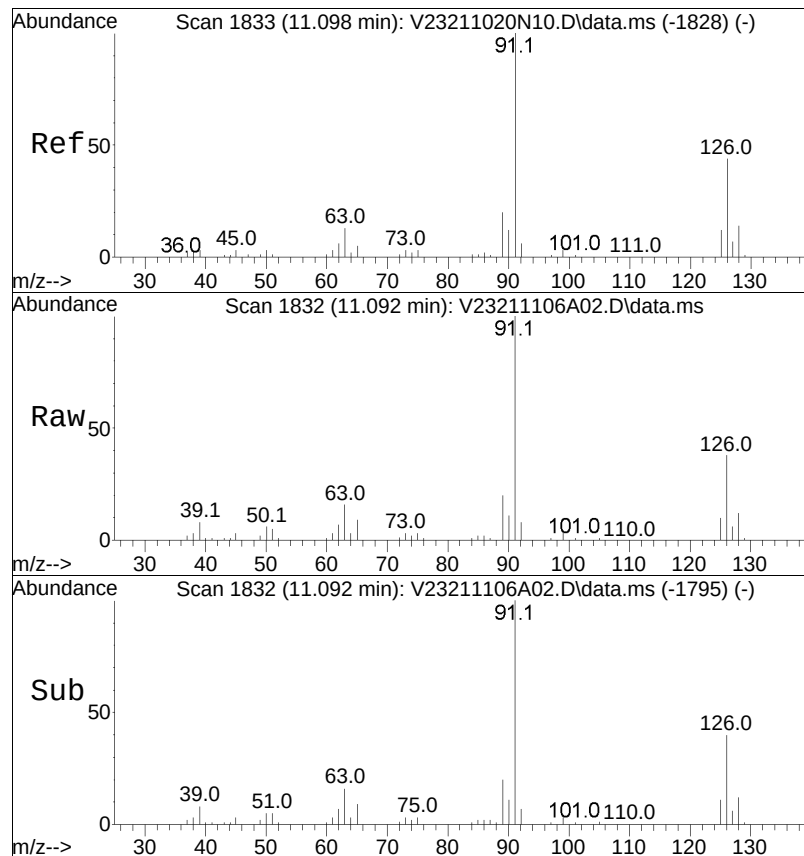




#88
 4-Ethyltoluene
 Concen: 46.49 ug/L
 RT: 11.061 min Scan# 1826
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

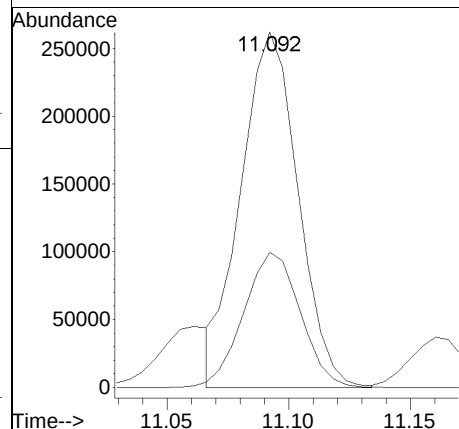
Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	30.8	19.4	40.4

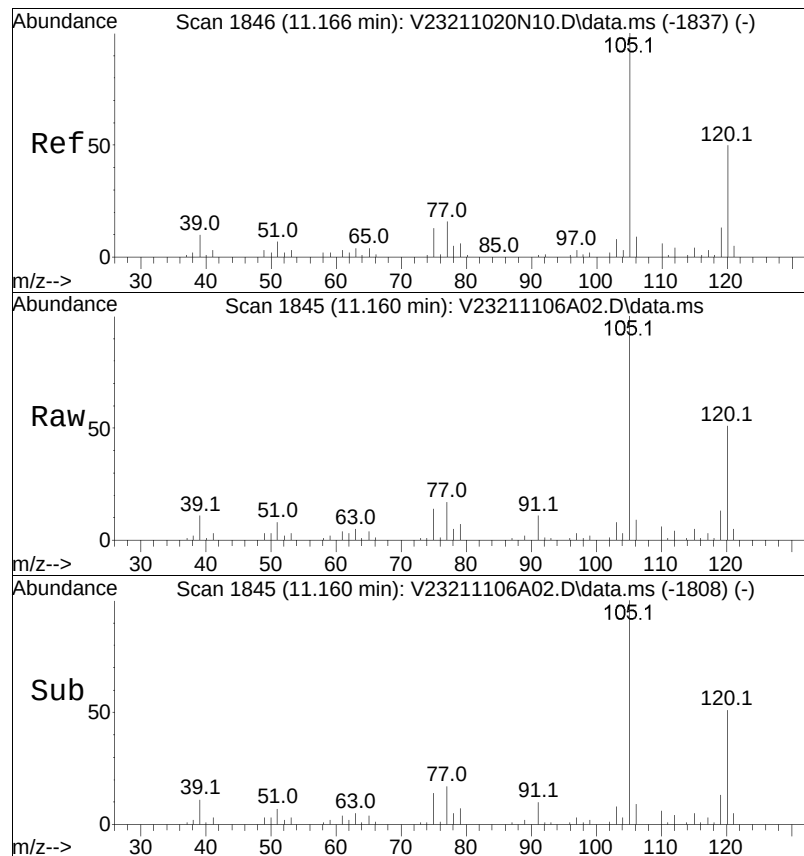




#89
 2-Chlorotoluene
 Concen: 46.86 ug/L M6
 RT: 11.092 min Scan# 1832
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

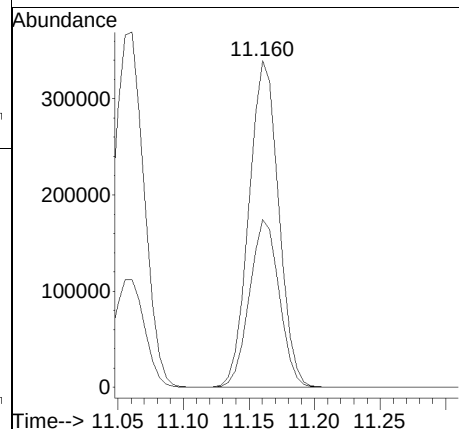
Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.6	26.7	40.1

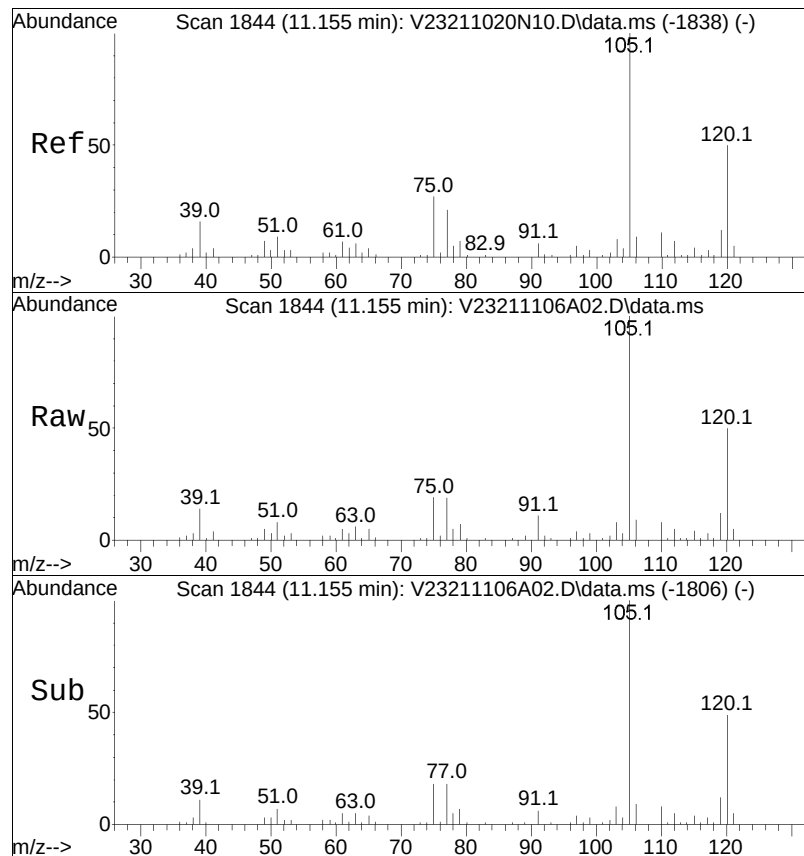




#90
 1,3,5-Trimethylbenzene
 Concen: 46.58 ug/L
 RT: 11.160 min Scan# 1845
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

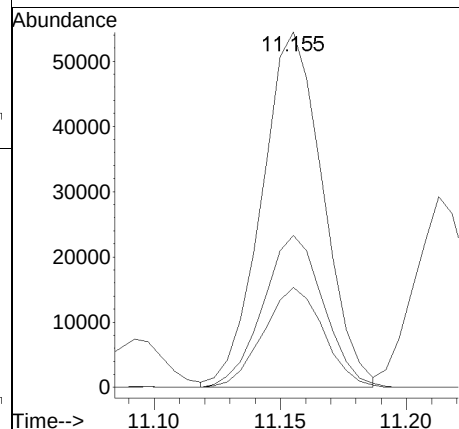
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	51.3	39.9	59.9	

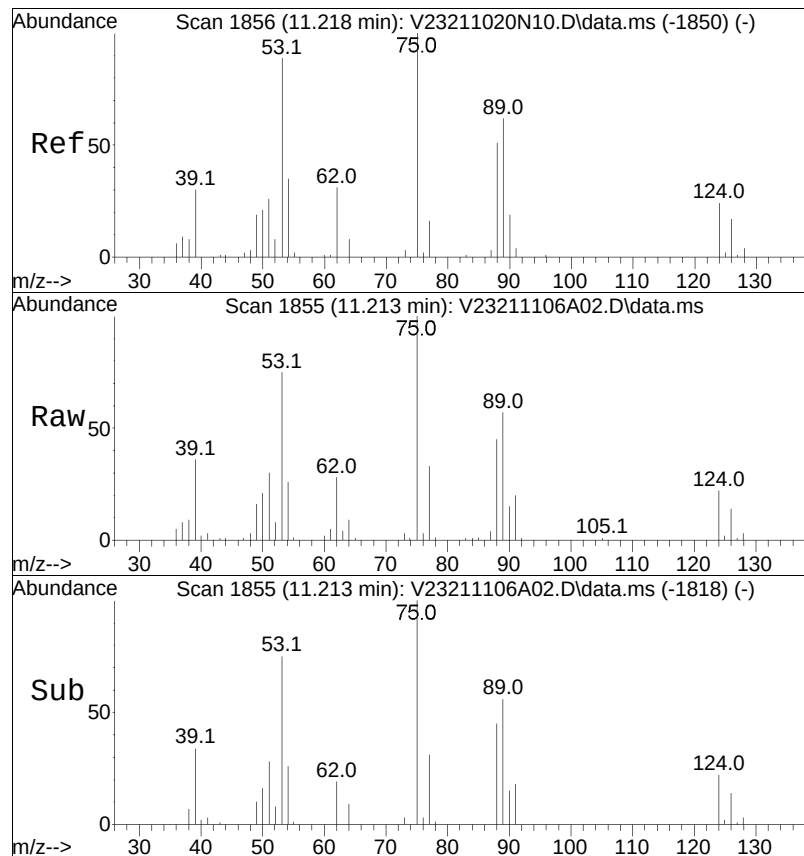




#91
 1,2,3-Trichloropropane
 Concen: 41.40 ug/L
 RT: 11.155 min Scan# 1844
 Delta R.T. 0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

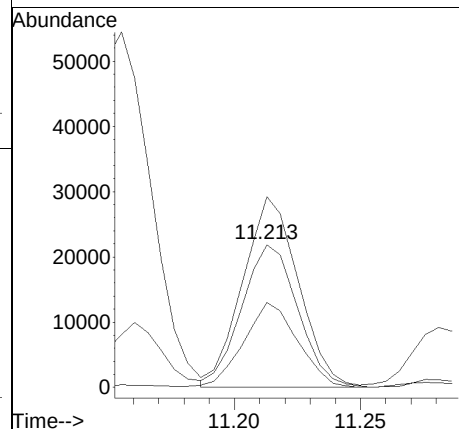
Tgt Ion	Ratio	Lower	Upper
75	100		
110	42.4	24.6	51.0
112	27.6	15.7	32.5

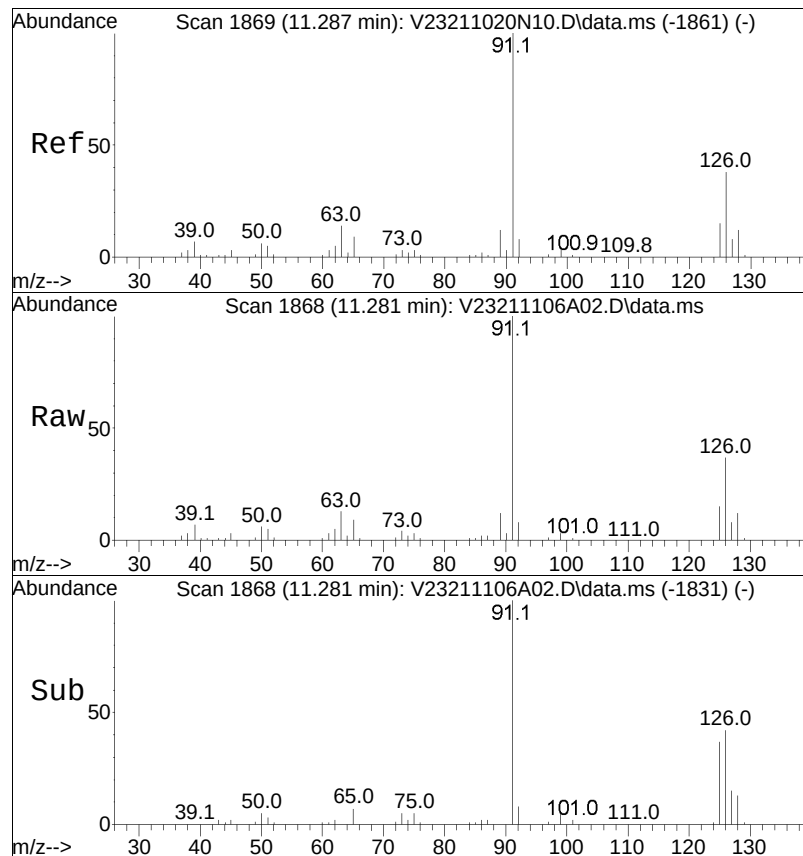




#92
 trans-1,4-Dichloro-2-butene
 Concen: 45.55 ug/L
 RT: 11.213 min Scan# 1855
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

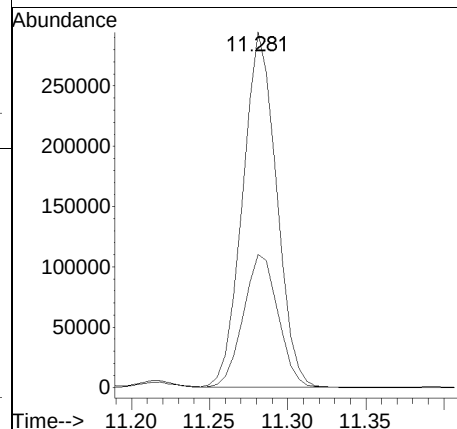
Tgt Ion	Ratio	Lower	Upper
53	100		
88	57.3	45.1	67.7
75	131.8	116.5	174.7

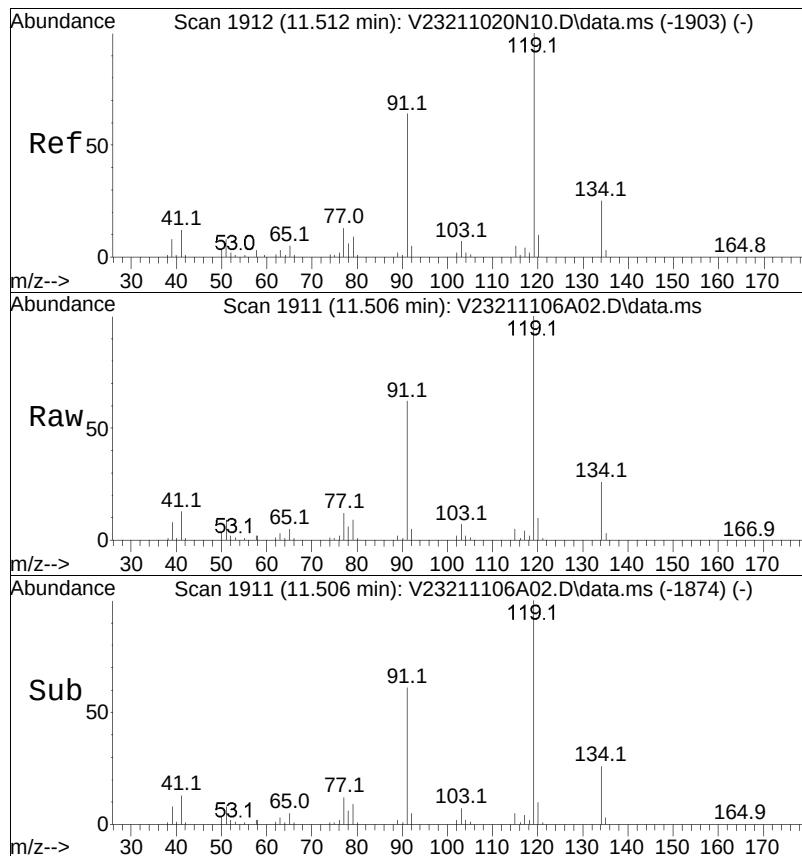




#93
 4-Chlorotoluene
 Concen: 46.01 ug/L
 RT: 11.281 min Scan# 1868
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

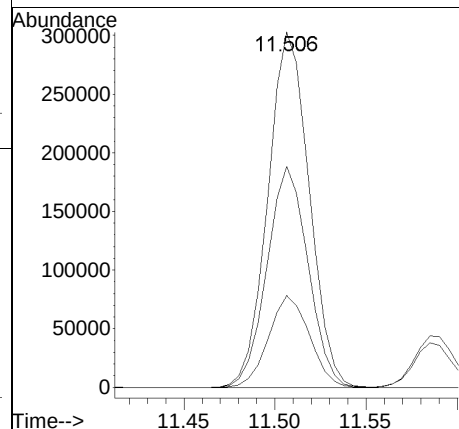
Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.5	26.9	40.3

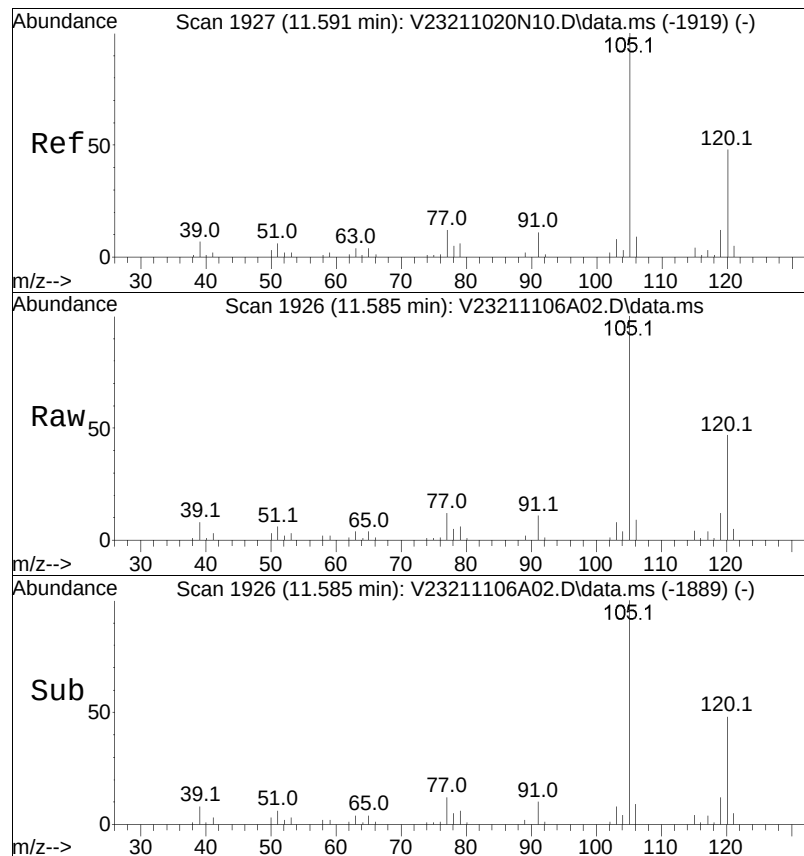




#94
 tert-Butylbenzene
 Concen: 47.40 ug/L
 RT: 11.506 min Scan# 1911
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

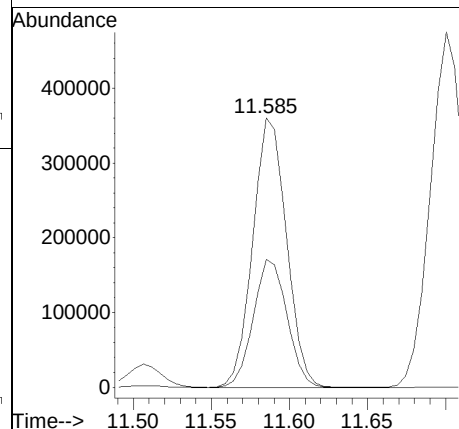
Tgt	Ion:119	Resp:	476999
Ion	Ratio	Lower	Upper
119	100		
91	62.0	53.1	79.7
134	25.6	20.4	30.6

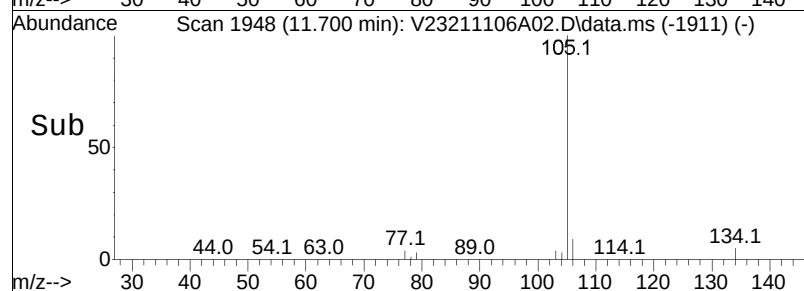
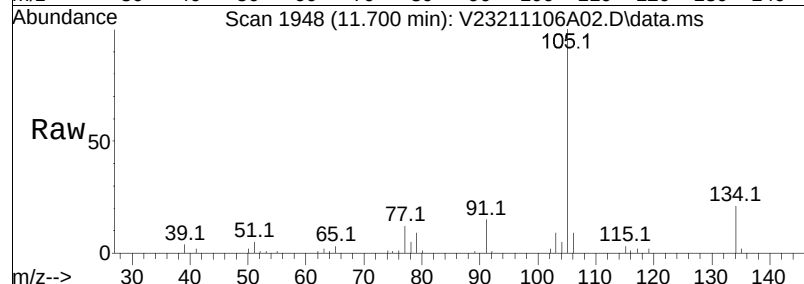
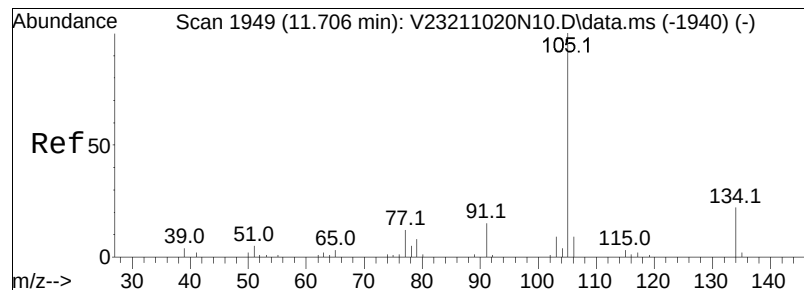




#97
 1,2,4-Trimethylbenzene
 Concen: 45.87 ug/L
 RT: 11.585 min Scan# 1926
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

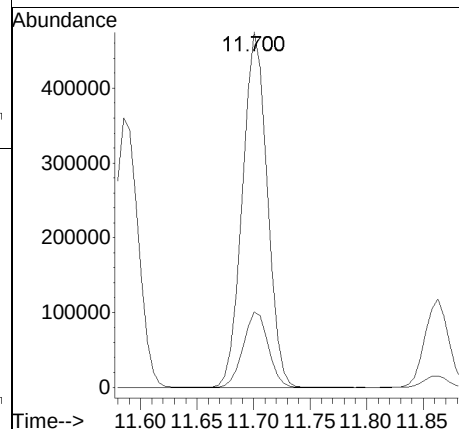
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	540344				
Ratio	100	47.5		36.9	55.3

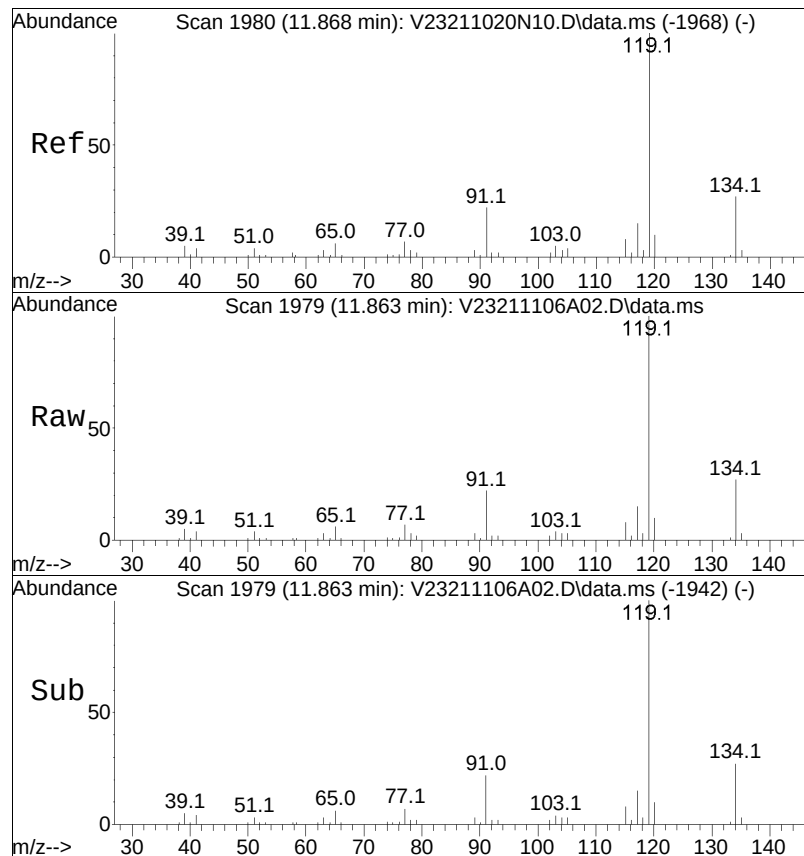




#98
 sec-Butylbenzene
 Concen: 48.37 ug/L
 RT: 11.700 min Scan# 1948
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

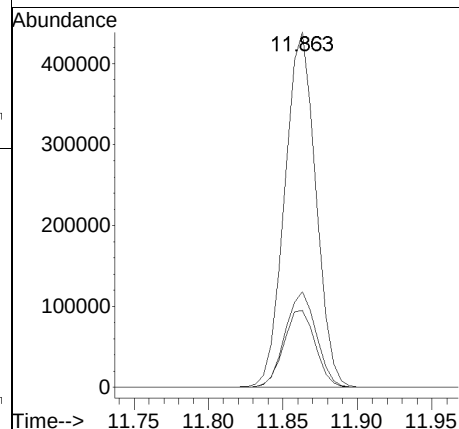
Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.3	13.1	27.1

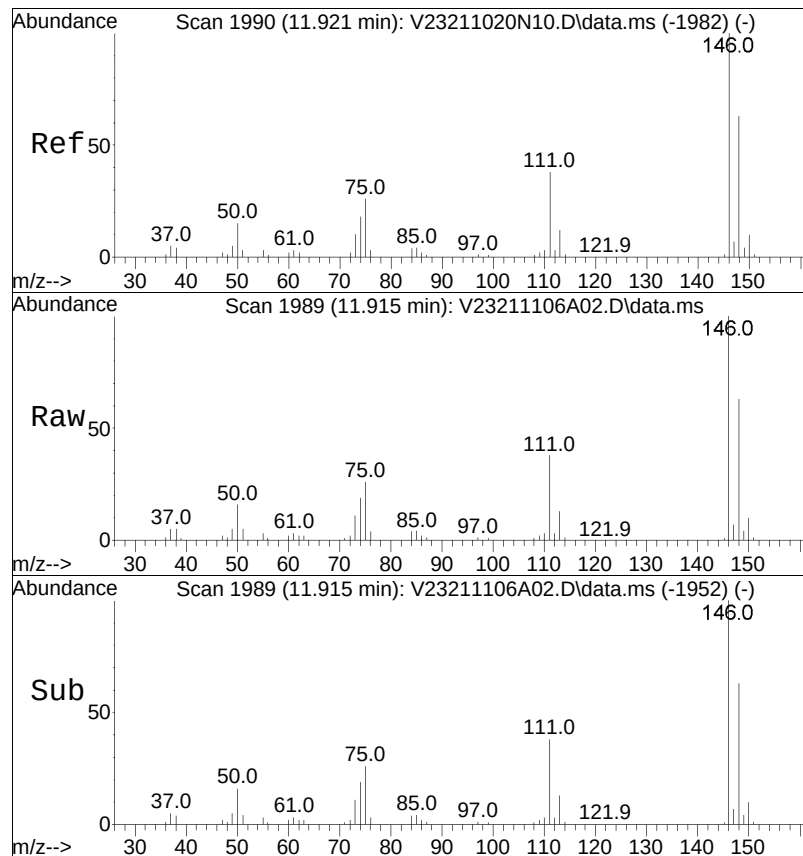




#99
 p-Isopropyltoluene
 Concen: 48.60 ug/L
 RT: 11.863 min Scan# 1979
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

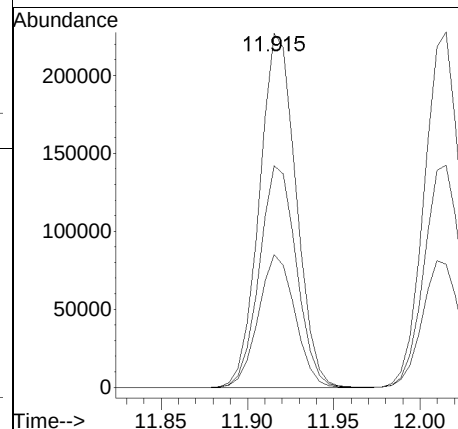
Tgt	Ion:119	Resp:	637608
Ion	Ratio	Lower	Upper
119	100		
134	27.0	17.2	35.6
91	22.1	15.1	31.3

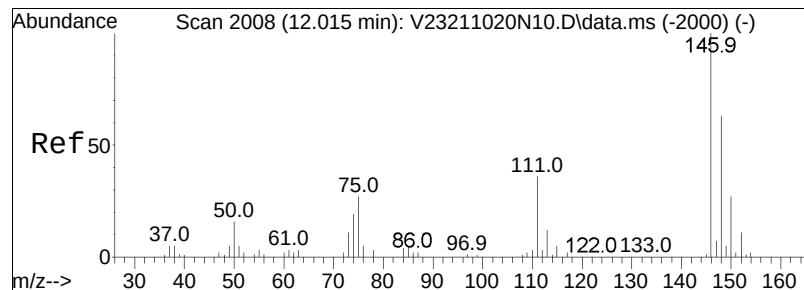




#100
 1,3-Dichlorobenzene
 Concen: 45.51 ug/L
 RT: 11.915 min Scan# 1989
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

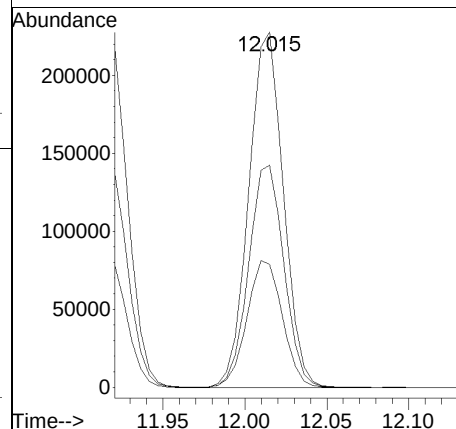
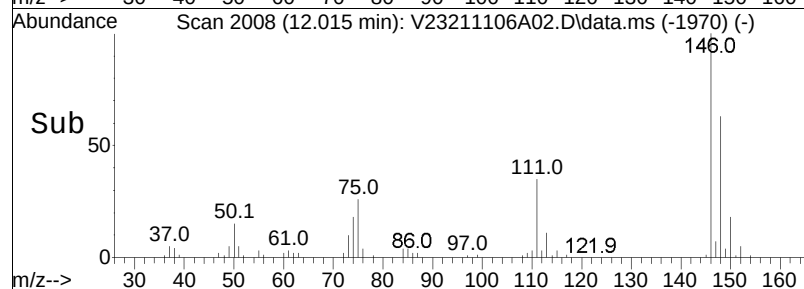
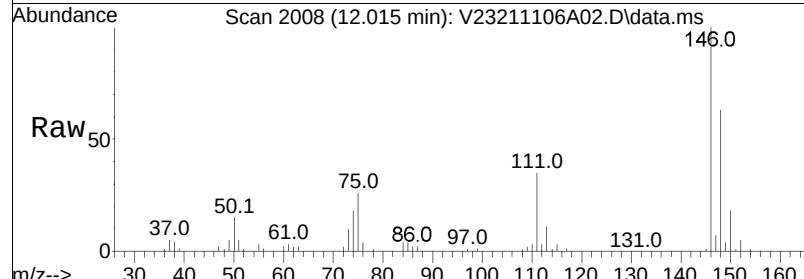
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	26.0	54.0
148	63.1	41.4	86.0

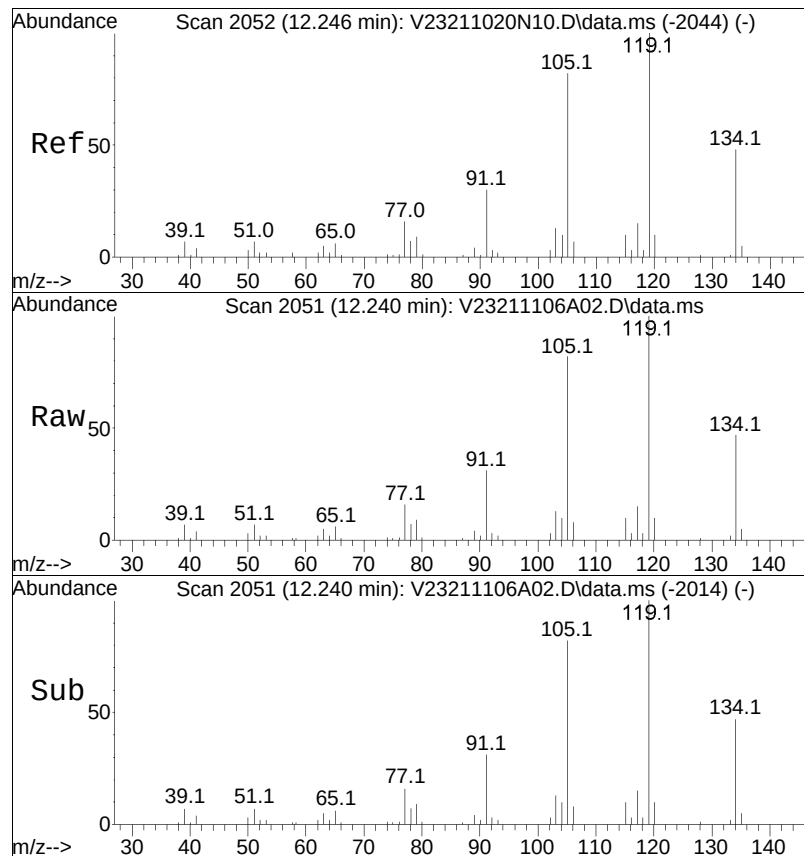




#101
 1,4-Dichlorobenzene
 Concen: 44.82 ug/L
 RT: 12.015 min Scan# 2008
 Delta R.T. 0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

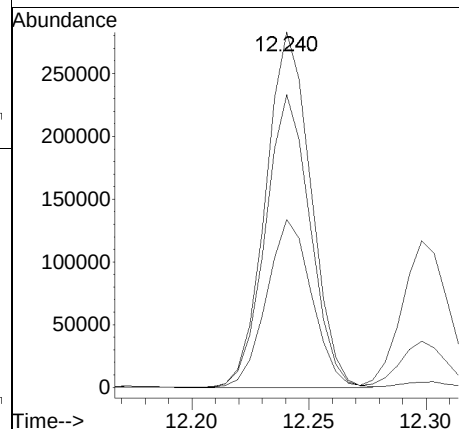
Tgt Ion:	146	Resp:	334282
Ion Ratio	Lower	Upper	
146	100		
111	36.6	31.1	46.7
148	63.7	50.8	76.2

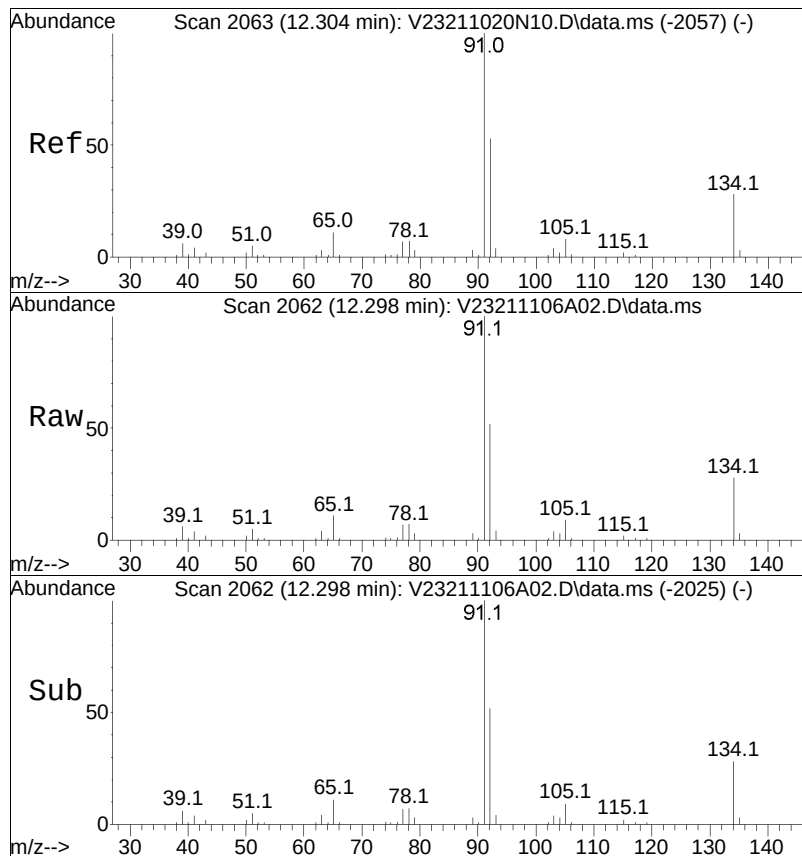




#102
 p-Diethylbenzene
 Concen: 48.51 ug/L
 RT: 12.240 min Scan# 2051
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

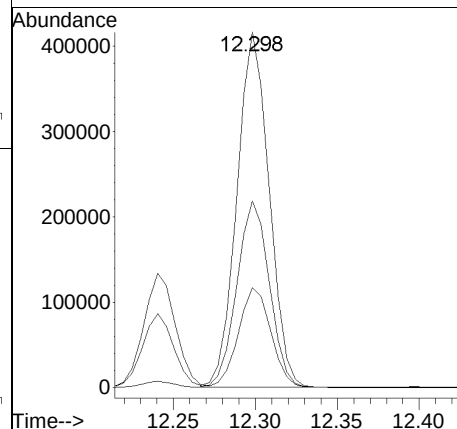
Tgt	Ion	Ratio	Resp	Lower	Upper
119	100		380243		
105	81.3	55.1		114.5	
134	47.2	30.0		62.2	

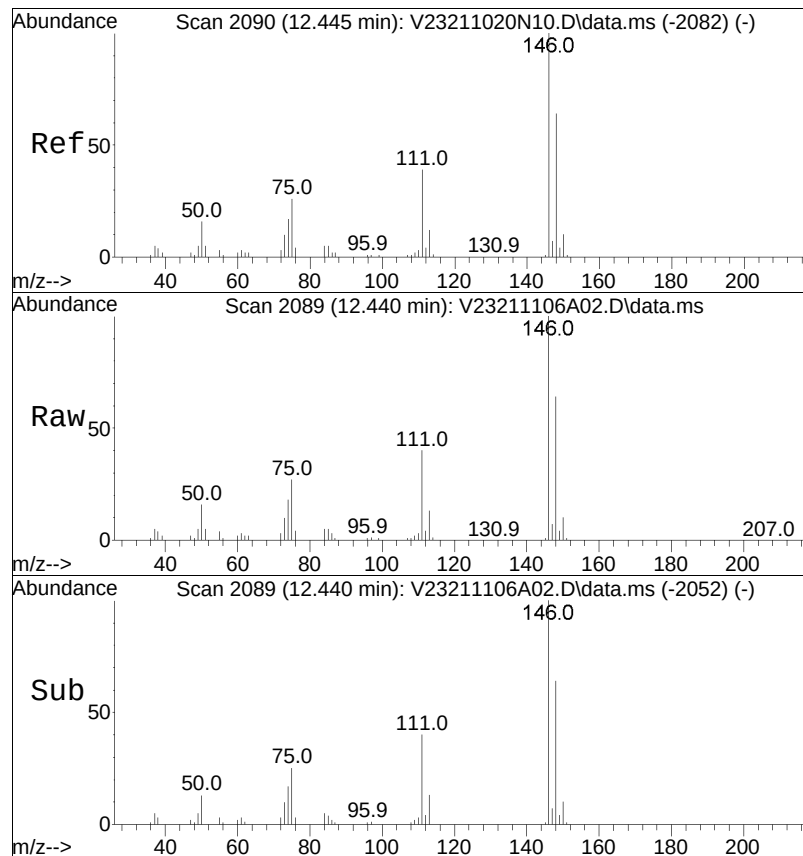




#103
 n-Butylbenzene
 Concen: 48.71 ug/L
 RT: 12.298 min Scan# 2062
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

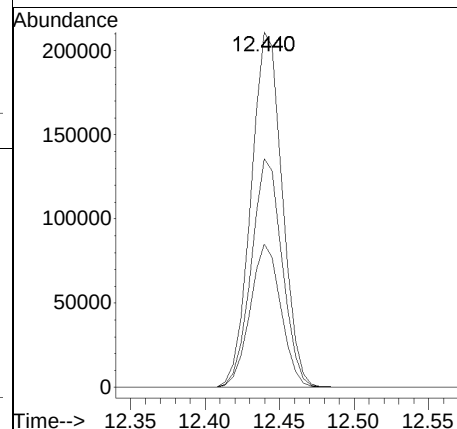
Tgt Ion:	91	Resp:	567383
Ion Ratio	Lower	Upper	
91	100		
92	53.1	44.2	66.4
134	28.3	21.2	31.8

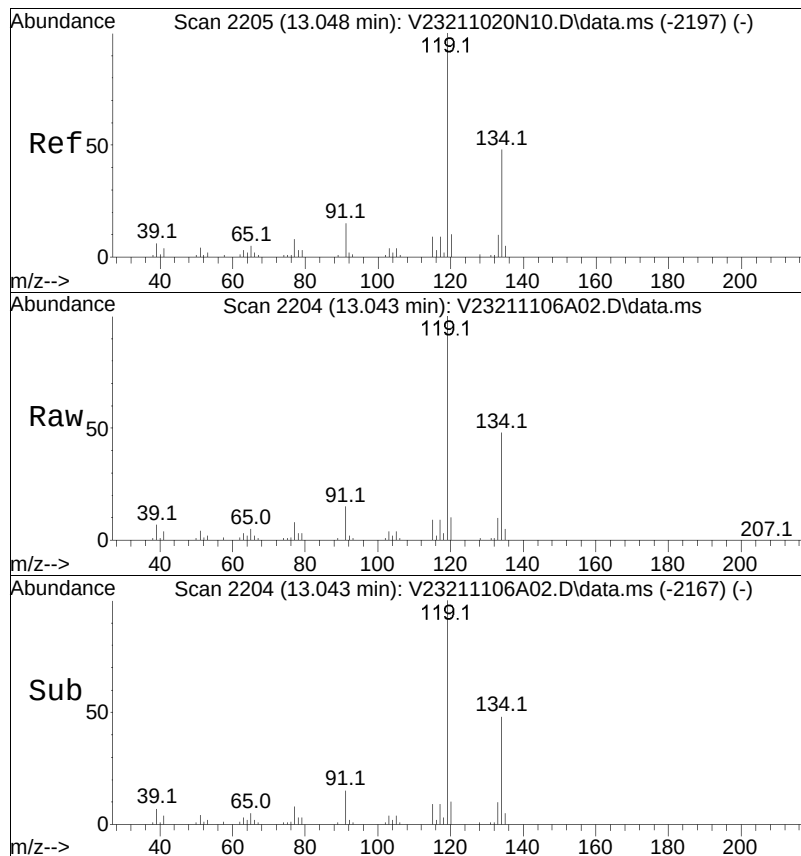




#104
 1,2-Dichlorobenzene
 Concen: 44.45 ug/L
 RT: 12.440 min Scan# 2089
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

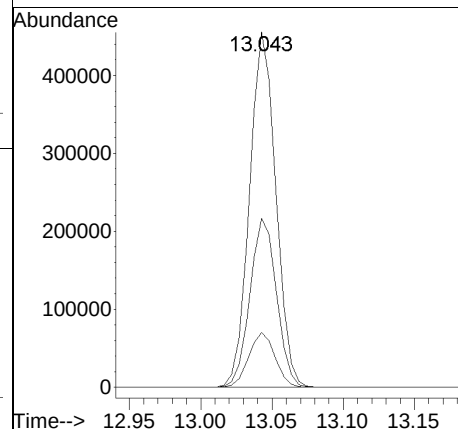
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	26.8	55.8
148	63.5	41.3	85.7

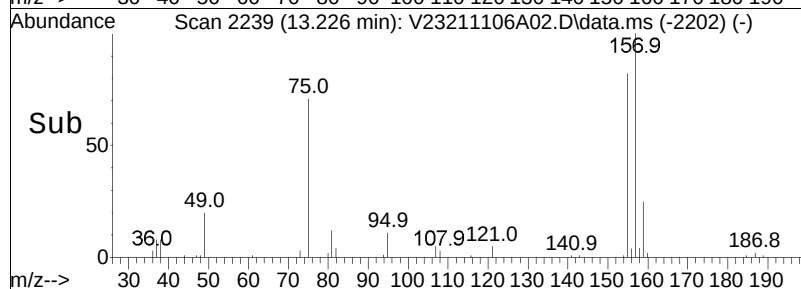
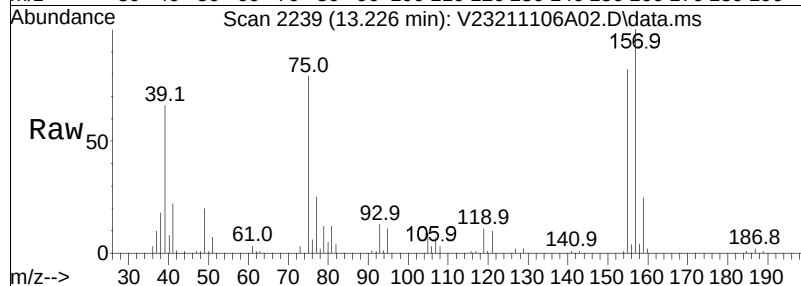
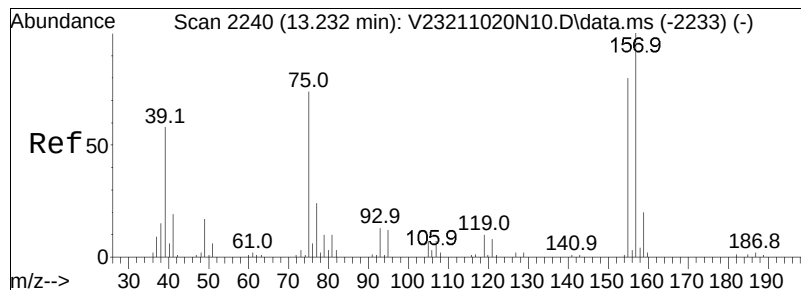




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 47.55 ug/L
 RT: 13.043 min Scan# 2204
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

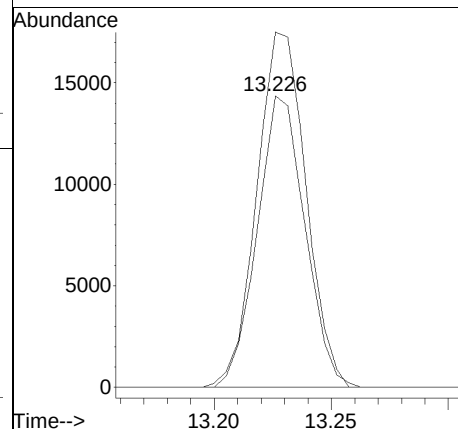
Tgt Ion	Ratio	Lower	Upper
119	100		
134	48.2	31.3	64.9
91	15.5	10.3	21.3

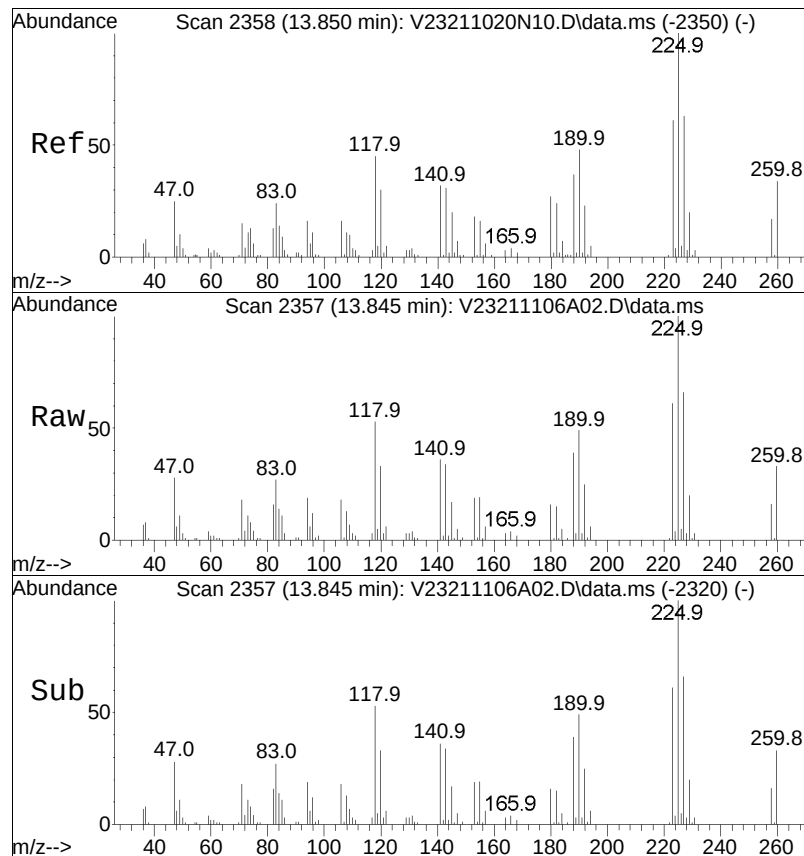




#106
 1,2-Dibromo-3-chloropropane
 Concen: 43.63 ug/L
 RT: 13.226 min Scan# 2239
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

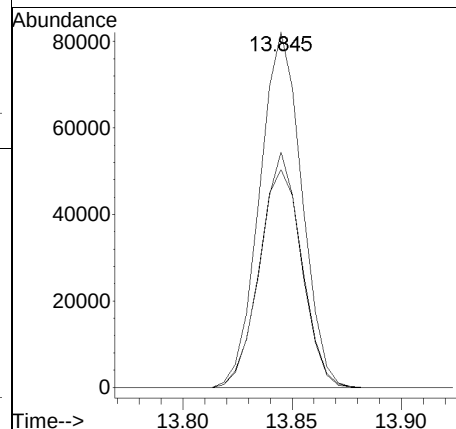
Tgt	Ion	Ratio	Lower	Upper
155	100			
157	125.7	101.5	152.3	

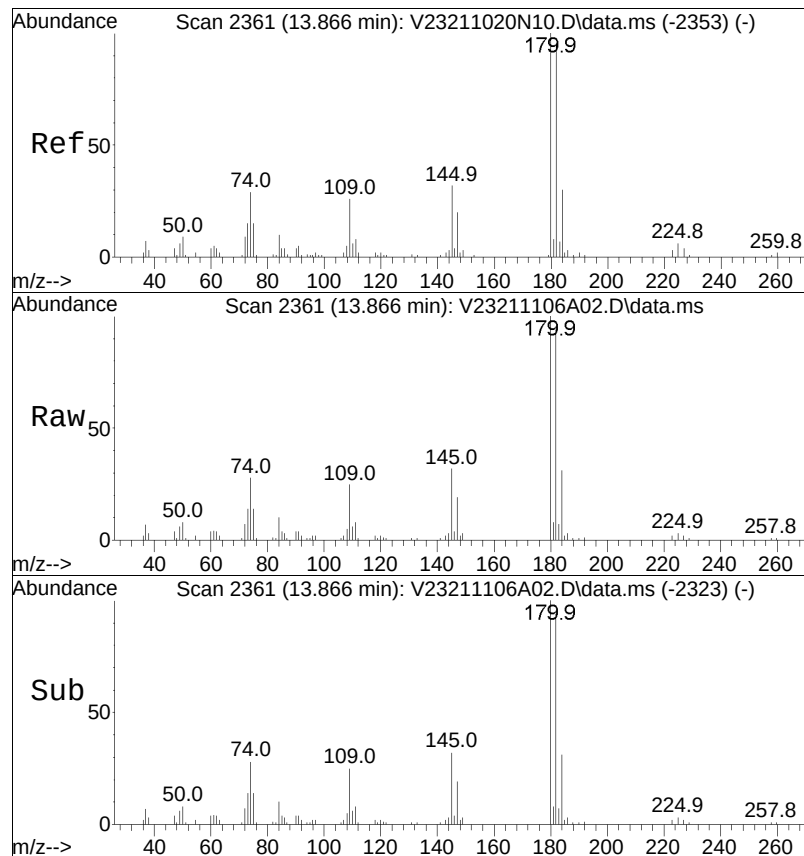




#108
 Hexachlorobutadiene
 Concen: 44.25 ug/L
 RT: 13.845 min Scan# 2357
 Delta R.T. -0.005 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

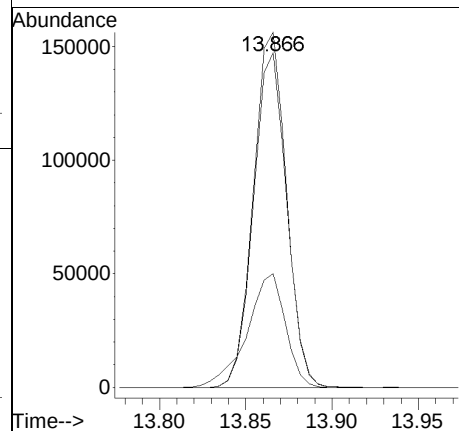
Tgt Ion:	225	Resp:	110251
Ion Ratio	Lower	Upper	
225	100		
223	62.8	49.9	74.9
227	64.2	50.7	76.1

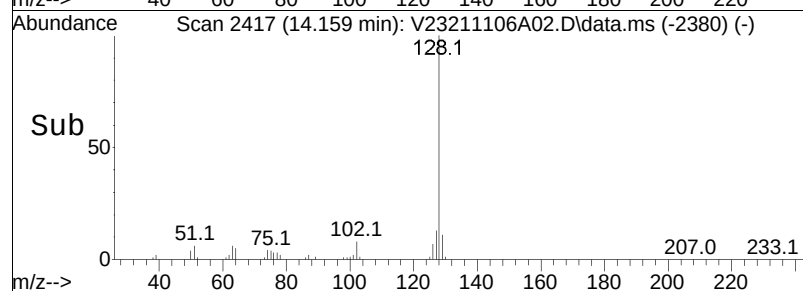
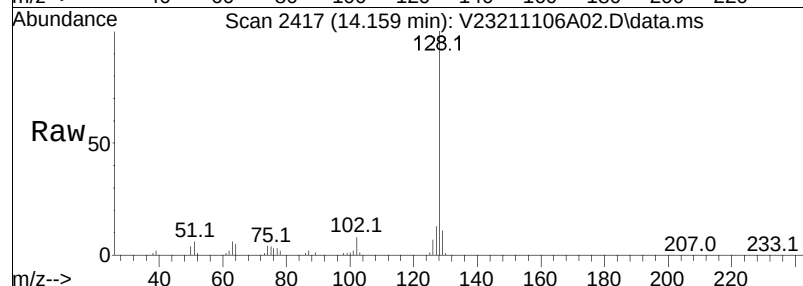
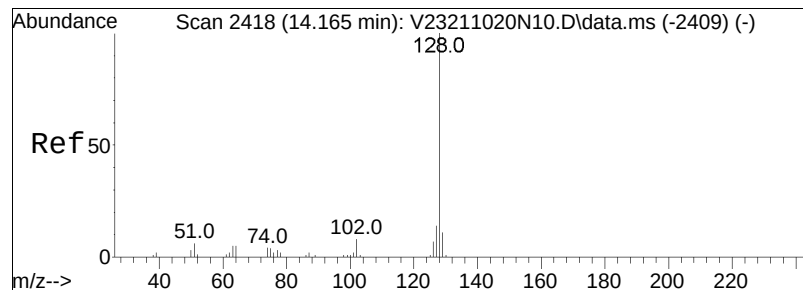




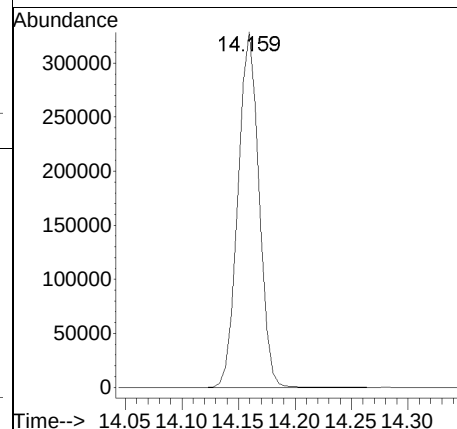
#109
 1,2,4-Trichlorobenzene
 Concen: 44.15 ug/L
 RT: 13.866 min Scan# 2361
 Delta R.T. -0.000 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

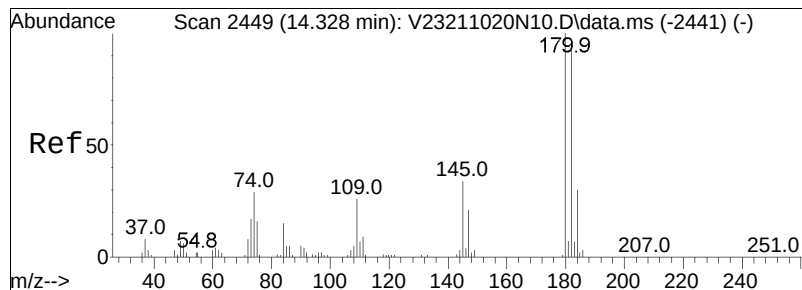
Tgt	Ion	Ratio	Lower	Upper
180	100			
182	94.6	76.2	114.4	
145	37.1	27.4	41.2	





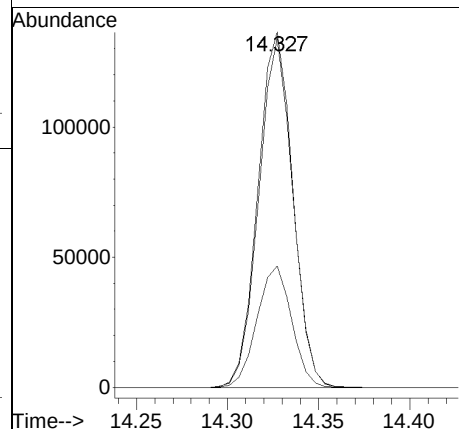
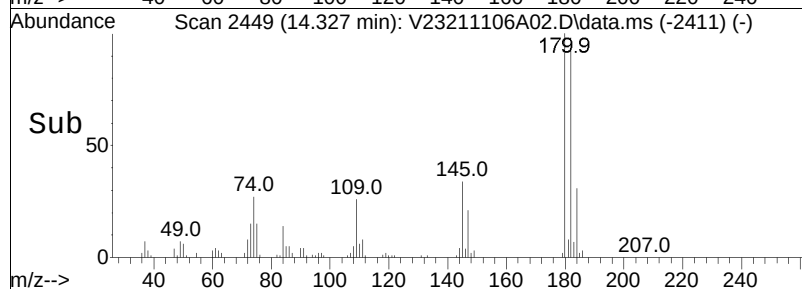
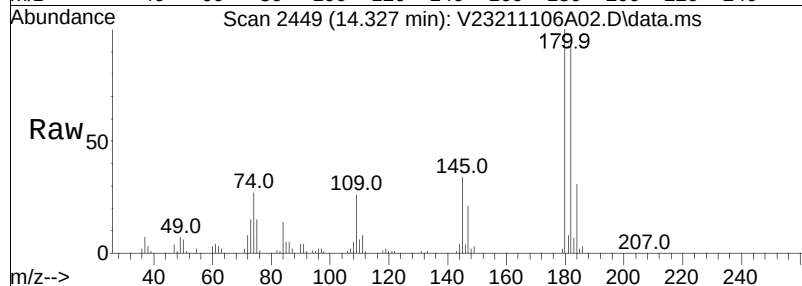
#110
 Naphthalene
 Concen: 43.30 ug/L
 RT: 14.159 min Scan# 2417
 Delta R.T. -0.006 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am
 Tgt Ion:128 Resp: 424524





#111
 1,2,3-Trichlorobenzene
 Concen: 41.77 ug/L
 RT: 14.327 min Scan# 2449
 Delta R.T. -0.001 min
 Lab File: V23211106A02.D
 Acq: 06 Nov 2021 06:30 am

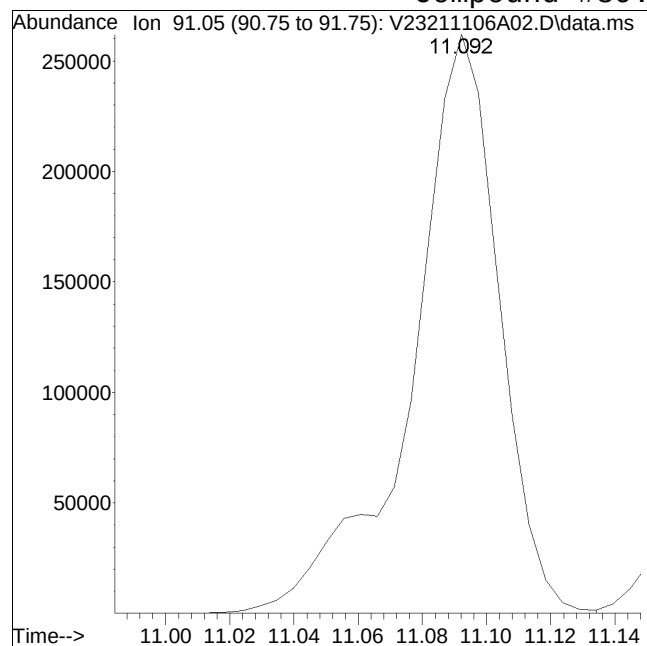
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	181589		
182	95.6		75.4	113.0
145	33.9		25.2	37.8



Manual Integration Report

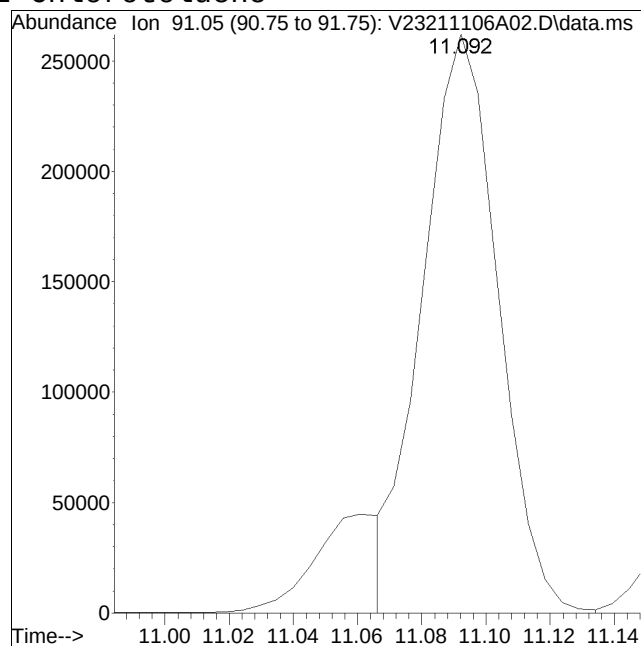
Data Path : I:\VOLATILES\VOA123\2021\20Method : V123_211020N_8260.m
Data File : V23211106A02.D Operator : VOA123:MV
Date Inj'd : 11/6/2021 6:30 am Instrument : VOA 123
Sample : WG1568305-4,31,5,5 Quant Date : 11/6/2021 11:02 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 493410

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 429112 M6



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 11 2021, 02:55 pm

Work Group: WG1566511 for Department: 31 GC/MS - Volatiles

Created: 03-NOV-21 Due: Operator: jc

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2158886-09	WTEW @7.0'	S NYCP51-8260-G	SOIL	DONE	U	1110	1103	S0	Vial-Large
L2159098-01	B-3 (2-2.5)	S NYTCL-8260HLW	SOIL	DONE	U	1111	1104	1A	8260SET
L2159098-02	B-3 (4-4.5)	S NYTCL-8260HLW	SOIL	DONE	U	1111	1104	1A	8260SET
WG1566511-1	MS BFB Tune Standard	S NYCP51-8260-G	SOIL	DONE	U				
WG1566511-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DONE	U				
WG1566511-2	Continuing Calibrati	S NYCP51-8260-G	SOIL	DONE	U				
WG1566511-2	Continuing Calibrati	S NYTCL-8260HLW	SOIL	DONE	U				
WG1566511-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1566511-3	Laboratory Control S	S NYCP51-8260-G	SOIL	DONE	U				
WG1566511-4	LCS Duplicate	S NYCP51-8260-G	SOIL	DONE	U				
WG1566511-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1566511-5	Laboratory Method Bl	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1566511-5	Laboratory Method Bl	S NYCP51-8260-G	SOIL	DONE	U				
Comments:									
WG1566511-4	WG1566511-3								

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 11 2021, 02:55 pm

Work Group: WG1568305 for Department: 31 GC/MS - Volatiles

Created: 08-NOV-21 Due: Operator: mv

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2159098-11	B-6 (2-2.5)	S NYTCL-8260HLW	SOIL	DONE	U	1111	1108	1A	8260SET
L2159098-12	B-6 (4-4.5)	S NYTCL-8260HLW	SOIL	DONE	U	1111	1108	1A	8260SET
WG1568305-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DONE	U				
WG1568305-2	Continuing Calibration	S NYTCL-8260HLW	SOIL	DONE	U				
WG1568305-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DONE	U				
WG1568305-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DONE	U				
WG1568305-5	Laboratory Method Bl	S NYTCL-8260HLW	SOIL	DONE	U				
Comments:									
WG1568305-4	WG1568305-3								

Inst: VOA127

Initials: KJD

Date: 10/05/21

Run: N

BFB: V8590

IS/SS: V8600

ICAL: V8623, V8590, V8609B

ICV: V8577, V8589, V8622, V8616, V8579, V8615

Method

GC: 8260SOIL.M

Autosampler: Alpha Soil 1

Concentrator: Alpha Soil 1



QC: _____ Seq: _____

Vial	Data File	SAMPLE
1	V27211005NBF1	BFB TUNE
1	V27211005NBF2	BFB TUNE
1	V27211005NBF3	BFB TUNE
1	V27211005N01	BLK
2	V27211005N02	BLK
3	V27211005N03	I8260STD0.5PPB
4	V27211005N04	I8260STD1.0PPB
5	V27211005N05	I8260STD2.0PPB
6	V27211005N06	I8260STD4.0PPB
7	V27211005N07	I8260STD20PPB
8	V27211005N08	I8260STD40PPB
9	V27211005N09	I8260STD100PPB
10	V27211005N10	I8260STD200PPB
11	V27211005N11	I8260STD300PPB
12	V27211005N12	BLK
13	V27211005N13	BLK
14	V27211005N14	BLK
15	V27211005N15	C8260STD40PPB
16	V27211005N16	C8260STD40PPB
17	V27211005N17	BLK
18	V27211005N18	MEOH BLANK
19	V27211005N19	MDL 0.5PPB
20	V27211005N20	MDL 1.0PPB
21	V27211005N21	MDL 4.0PPB
22	V27211005N22	BLK

RUSH	HT	PRI

Method

Inst: VOA123 BFB V8590 GC: 8260
Initials: LAC IS/SS: V8618 Autosampler: 8260
Date: 10/20/21 ICAL V8653A,V8623 Concentrator: 8260 soil
Run: N ICV V8648,V8559,V8622,V8616,V8579,V8615 QC: Seq:

Vial	DATA FILE	SAMPLE
1	V23211020NBF1	BFB
1	V23211020N01	BLK
2	V23211020N02	BLK
3	V23211020N03	I8260STD0.5PPB
4	V23211020N04	I8260STD0.5PPB
5	V23211020N05	I8260STD1PPB
6	V23211020N06	I8260STD1PPB
7	V23211020N07	I8260STD2PPB
8	V23211020N08	I8260STD4PPB
9	V23211020N09	I8260STD20PPB
10	V23211020N10	I8260STD40PPB
11	V23211020N11	I8260STD100PPB
12	V23211020N12	I8260STD200PPB
13	V23211020N13	I8260STD300PPB
14	V23211020N14	BLK
15	V23211020N15	BLK
16	V23211020N16	BLK
17	V23211020N17	BLK
18	V23211020N18	C8260STD40PPB
19	V23211020N19	C8260STD40PPB
20	V23211020N20	BLK
21	V23211020N21	MEOH BLK
22	V23211020N22	MDL L0
23	V23211020N23	MDL L1
24	V23211020N24	MDL L2

RUSH	HT	PRI

Method

Inst: VOA123

BFB

V8654

GC: 8260

Initials: MJV

IS/SS:

V8682

Autosampler: 8260

Date: 11/06/21

ICAL

V8653C,V8623

Concentrator: 8260 soil

Run: A

QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	
1	V23211106BF1	BFB	
1	V23211106A01	8260 CCAL	
2	V23211106A02	8260 CCAL	
3	V23211106A03	BLK	
4	V23211106A04	MEOH BLK	
5	V23211106A05	I2159098-11,31,2.55,5,,y,pri	NYHLW
6	V23211106A06	I2159098-12,31,5.54,5,,y,pri	NYHLW
7	V23211106A07	I2160135-16,31,6.18,5,,b,pri	PAHLW
8	V23211106A08	I2160135-18,31,5.81,5,,b,pri	PAHLW
9	V23211106A09	I2160135-20,31,5.52,5,,b,pri	PAHLW
10	V23211106A10	I2160135-22,31,5.21,5,,b,pri	PAHLW
11	V23211106A11	I2160758-01,31,5.32,5,,b,r1b	PAHLW
12	V23211106A12	I2160758-02,31,6.48,5,,b,r1b	PAHLW
13	V23211106A13	I2160758-03,31,5.38,5,,b,r1b	PAHLW
14	V23211106A14	I2160758-05,31,6.70,5,,b,r1b	PAHLW
15	V23211106A15	I2160758-07,31,5.06,5,,b,r1b	PAHLW
16	V23211106A16	I2160758-08,31,6.05,5,,b,r1b	PAHLW
17	V23211106A17	I2160758-04,31,5.71,5,,b,r1b	PAHLW
18	V23211106A18	I2160758-06,31H,6.32,5,0.100,,a,r1b	PA/H
19	V23211106A19	I2160432-01D,31H,5.14,5,0.002,,x,r1b	8260/H
20	V23211106A20	I2160432-01D2,31H,5.14,5,0.020,,x,r1b	*8260/H
21	V23211106A21	BLNK	
21	V23211106A22	I2159658-02D,31H,24.64,15,0.010,,a	8/H
22	V23211106A23	I2159658-02D2,31H,24.64,15,0.050,,a	*8/H
23	V23211106A24	BLNK	
24	V23211106A25	STD	

Inst: VOA127

Initials: KJD

Date: 11/02/21

Run: N

BFB: V8654

IS/SS: V8658

ICAL: V8623, V8653B

ICV:

Method

GC: 8260SOIL.I

Autosampler: Alpha Soil 1

Concentrator: Alpha Soil 1



QC: _____ Seq: _____

Vial	Data File	SAMPLE	
1	V27211102NBF1	BFB TUNE	
1	V27211102N01	8260 CCAL	
2	V27211102N02	8260 CCAL	
3	V27211102N03	8260 CCAL	
4	V27211102N04	BLK	
5	V27211102N05	BLK	
6	V27211102N06	MEOH BLK	
7	V27211102N07	L2158263-01,31,6.63,5,,B	MLW H.T. 11/05
8	V27211102N08	L2158263-02,31,4.24,5,,B	MLW H.T. 11/05
9	V27211102N09	L2158263-03,31,4.08,5,,B	MLW H.T. 11/05
10	V27211102N10	L2158886-09,31,5.29,5,,Y	NY CP51
11	V27211102N11	L2159098-01,31,3.28,5,,Y,PRI	NYHLW
12	V27211102N12	L2159098-02,31,3.15,5,,Y,PRI	NYHLW
13	V27211102N13	L2159530-01,31H,23.94,15,0.100,,A,PRI	M/H
14	V27211102N14	BLK	
15	V27211102N15	L2159178-02,31,5.83,5,,B	NJHLW
16	V27211102N16	L2159178-04,31,5.79,5,,B	NJHLW
17	V27211102N17	L2159178-06,31,2.06,5,,B	NJHLW
18	V27211102N18	L2159178-08,31,6.01,5,,B	NJHLW
19	V27211102N19	L2159178-10,31,4.99,5,,B	NJHLW
20	V27211102N20	L2159178-13,31,6.67,5,,B	NJHLW
21	V27211102N21	L2159616-02,31,6.47,5,,B,PRI	MLW
22	V27211102N22	L2159616-03,31,8.37,5,,B,PRI	MLW
23	V27211102N23	L2159616-04,31,8.81,5,,B,PRI	MLW
24	V27211102N24	L2159616-05,31,7.35,5,,B,PRI	MLW
25	V27211102N25	L2159616-06,31,7.18,5,,B,PRI	MLW
26	V27211102N26	L2159616-07,31,8.62,5,,B,PRI	MLW
27	V27211102N27	L2159170-01,31,5.16,5,,Y	8LW H.T. 11/03
28	V27211102N28	BLK	
29	V27211102N29	L2159530-01DUP,31H,23.94,15,0.100,,A, NJ-QC	
30	V27211102N30	L2159530-01MS,31H,23.94,15,0.100, NJ-QC	
31	V27211102N31	BLK	
32	V27211102N32	BLK	
33	V27211102N33	GREENWOOD LOT 426111	
34	V27211102N34	GREENWOOD LOT 426111	
35	V27211102N35	C&G DI 110121-3	
36	V27211102N36	C&G DI 110121-3	

Wet Chemistry

Total Solids / Percent Moisture Analysis

Results

Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-01
 Client ID : B-3 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565153.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 10/30/21 09:24
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 94
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	93.6	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-02
 Client ID : B-3 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565153.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:15
 Date Received : 10/28/21
 Date Analyzed : 10/30/21 09:24
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 91
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.3	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-11
 Client ID : B-6 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1567863.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/05/21 16:45
 Dilution Factor : 1
 Analyst : TR
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	93.4	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : L2159098-12
 Client ID : B-6 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1567863.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:55
 Date Received : 10/28/21
 Date Analyzed : 11/05/21 16:45
 Dilution Factor : 1
 Analyst : TR
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	93.1	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1565153-1
 Client ID : B-3 (2-2.5)DUP
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565153.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 10:10
 Date Received : 10/28/21
 Date Analyzed : 10/30/21 09:24
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 94
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	93.0	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCK FARMER
 Lab ID : WG1567863-1
 Client ID : B-6 (2-2.5)DUP
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1567863.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159098
 Project Number : 48122
 Date Collected : 10/28/21 12:50
 Date Received : 10/28/21
 Date Analyzed : 11/05/21 16:45
 Dilution Factor : 1
 Analyst : TR
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	93.4	0.100	NA	



Sample Raw Data

WorkGroup	WG1565153	Temp In (C)	105	Temp In (C)		Temp In (C)		Temp In (C)	
Title	Solids, Total	Temp Out (C)	105	Temp Out (C)		Temp Out (C)		Temp Out (C)	
Method	SM2540G	Time In	30-OCT-21 09:31	Time In		Time In		Time In	
Instrument	BALANCE#53	Time Out	30-OCT-21 18:06	Time Out		Time Out		Time Out	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2159098-01	30-OCT-21 09:24	ROMANY IBRAHIM	.84	8.82	8.31				93.61	
L2159098-02	30-OCT-21 09:24	ROMANY IBRAHIM	.87	9.25	8.52				91.29	
L2159360-01	30-OCT-21 09:24	ROMANY IBRAHIM	.87	6.8	6.11				88.36	
L2159360-02	30-OCT-21 09:24	ROMANY IBRAHIM	.86	9.46	8				83.02	
L2159529-01	30-OCT-21 09:24	ROMANY IBRAHIM	.86	9.45	8.34				87.08	
L2159529-02	30-OCT-21 09:24	ROMANY IBRAHIM	.87	8.18	7.38				89.06	
L2159529-03	30-OCT-21 09:24	ROMANY IBRAHIM	.87	9.78	8.68				87.65	
L2159529-04	30-OCT-21 09:24	ROMANY IBRAHIM	.87	9.75	8.72				88.40	
L2159529-05	30-OCT-21 09:24	ROMANY IBRAHIM	.87	9.78	8.68				87.65	
L2159622-21	30-OCT-21 09:24	ROMANY IBRAHIM	.85	9.3	8.25				87.57	
L2159622-22	30-OCT-21 09:24	ROMANY IBRAHIM	.86	9.33	8.07				85.12	
L2159622-23	30-OCT-21 09:24	ROMANY IBRAHIM	.87	7.8	6.73				84.56	
L2159622-24	30-OCT-21 09:24	ROMANY IBRAHIM	.86	9.47	8.68				90.82	
L2159622-25	30-OCT-21 09:24	ROMANY IBRAHIM	.86	7.88	7.13				89.32	
WG1565153-1	30-OCT-21 09:24	ROMANY IBRAHIM	.87	8.89	8.33				93.02	

WorkGroup	WG1567863	Temp In (C)	105	Temp In (C)		Temp In (C)		Temp In (C)	
Title	Solids, Total	Temp Out (C)	105	Temp Out (C)		Temp Out (C)		Temp Out (C)	
Method	SM2540G	Time In	05-NOV-21 17:16	Time In		Time In		Time In	
Instrument	BALANCE#53	Time Out	06-NOV-21 05:35	Time Out		Time Out		Time Out	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2159098-11	05-NOV-21 16:45	TRISTAN RIGGS	.87	7.19	6.77				93.35	
L2159098-12	05-NOV-21 16:45	TRISTAN RIGGS	.88	7.68	7.21				93.09	
L2160183-12	05-NOV-21 16:45	TRISTAN RIGGS	.89	6.14	5.77				92.95	
L2160183-13	05-NOV-21 16:45	TRISTAN RIGGS	.87	6.16	4.87				75.61	
L2160183-14	05-NOV-21 16:45	TRISTAN RIGGS	.88	6	5.09				82.23	
L2160360-01	05-NOV-21 16:45	TRISTAN RIGGS	.89	7.8	6.53				81.62	
L2160433-01	05-NOV-21 16:45	TRISTAN RIGGS	.87	6.59	5.82				86.54	
L2160433-02	05-NOV-21 16:45	TRISTAN RIGGS	.86	8.27	6.95				82.19	
L2160433-05	05-NOV-21 16:45	TRISTAN RIGGS	.85	9.45	6.84				69.65	
L2160433-06	05-NOV-21 16:45	TRISTAN RIGGS	.87	7.67	6.5				82.79	
L2160433-09	05-NOV-21 16:45	TRISTAN RIGGS	.87	6.14	5.41				86.15	
L2160433-10	05-NOV-21 16:45	TRISTAN RIGGS	.88	10.25	9.86				95.84	
L2160433-15	05-NOV-21 16:45	TRISTAN RIGGS	.87	7.22	6.21				84.09	
L2160433-16	05-NOV-21 16:45	TRISTAN RIGGS	.87	8.47	6.84				78.55	
L2160433-17	05-NOV-21 16:45	TRISTAN RIGGS	.87	6.69	5.69				82.82	
L2160433-18	05-NOV-21 16:45	TRISTAN RIGGS	.86	6.2	5.6				88.76	
L2160433-21	05-NOV-21 16:45	TRISTAN RIGGS	.87	6.18	5.22				81.92	
L2160433-22	05-NOV-21 16:45	TRISTAN RIGGS	.86	8.91	7.17				78.39	
L2160904-01	05-NOV-21 16:45	TRISTAN RIGGS	.86	6.13	3.17				43.83	
L2160904-02	05-NOV-21 16:45	TRISTAN RIGGS	.88	7.04	2.86				32.14	
WG1567863-1	05-NOV-21 16:45	TRISTAN RIGGS	.88	7.56	7.12				93.41	

Quality Control

Form 6 Lab Duplicates

Client : The Vertex Companies, Inc.
Project Name : ROCK FARMER
Client Sample ID : B-3 (2-2.5)
Lab Sample ID : L2159098-01
Dup Sample ID : WG1565153-1

Lab Number : L2159098
Project Number : 48122
Matrix : SOIL
Analysis Date : 10/30/21 09:24
DUP Analysis Date : 10/30/21 09:24

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	93.6	93.0	1	20



Form 6

Lab Duplicates

Client : The Vertex Companies, Inc.
Project Name : ROCK FARMER
Client Sample ID : B-6 (2-2.5)
Lab Sample ID : L2159098-11
Dup Sample ID : WG1567863-1

Lab Number : L2159098
Project Number : 48122
Matrix : SOIL
Analysis Date : 11/05/21 16:45
DUP Analysis Date : 11/05/21 16:45

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	93.4	93.4	0	20





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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2159682

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Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2159682
Report Date: 11/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2159682-01	B-1 (3.5-4)	SOIL	JACKSON HEIGHTS, NY	10/29/21 12:20	10/29/21
L2159682-02	B-1 (13.5-14)	SOIL	JACKSON HEIGHTS, NY	10/29/21 12:22	10/29/21
L2159682-03	B-2 (3.5-4)	SOIL	JACKSON HEIGHTS, NY	10/29/21 11:41	10/29/21
L2159682-04	B-2 (14.5-15)	SOIL	JACKSON HEIGHTS, NY	10/29/21 11:43	10/29/21
L2159682-05	B-4 (1.5-2)	SOIL	JACKSON HEIGHTS, NY	10/29/21 09:15	10/29/21
L2159682-06	B-4 (11.5-12)	SOIL	JACKSON HEIGHTS, NY	10/29/21 09:20	10/29/21
L2159682-07	B-5 (0.5-1)	SOIL	JACKSON HEIGHTS, NY	10/29/21 08:30	10/29/21
L2159682-08	B-7 (9.5-10)	SOIL	JACKSON HEIGHTS, NY	10/29/21 09:40	10/29/21
L2159682-09	B-7 (13.5-14)	SOIL	JACKSON HEIGHTS, NY	10/29/21 09:45	10/29/21
L2159682-10	B-9 (1.5-2)	SOIL	JACKSON HEIGHTS, NY	10/29/21 07:45	10/29/21
L2159682-11	B-9 (14.5-15)	SOIL	JACKSON HEIGHTS, NY	10/29/21 07:50	10/29/21
L2159682-12	DUP	SOIL	JACKSON HEIGHTS, NY	10/29/21 00:00	10/29/21
L2159682-13	FIELD BLANK	WATER	JACKSON HEIGHTS, NY	10/29/21 12:25	10/29/21
L2159682-14	TRIP BLANK	WATER	JACKSON HEIGHTS, NY	10/26/21 00:00	10/29/21
L2159682-15	B-8 (2-2.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 13:55	10/29/21
L2159682-16	B-8 (4-4.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 14:00	10/29/21
L2159682-17	B-8 (6-6.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 14:05	10/29/21
L2159682-18	B-8 (8-8.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 14:07	10/29/21
L2159682-19	B-8 (10-10.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 14:10	10/29/21
L2159682-20	B-8 (12-12.5)	SOIL	JACKSON HEIGHTS, NY	10/28/21 14:15	10/29/21

Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2159682
Report Date: 11/12/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2159682
Report Date: 11/12/21

Case Narrative (continued)

Report Submission

November 12, 2021: This final report includes the results of all requested analyses.

November 05, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Melissa Sturgis*

Report Date: 11/12/21

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2159682
Report Date: 11/12/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: DU Report with 'J' Qualifiers



Project Name: ROCKFARMER
Project Number: 48122

Lab Number: L2159682
Report Date: 11/12/21

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary



Alpha Job Number : L2159682

Received : 29-OCT-2021

Reviewer : Sharon Hoffman

Account Name : The Vertex Companies, Inc.

Project Number : 48122

Project Name : ROCKFARMER

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.4	

Condition Information

1) All samples on COC received?	YES
2) Extra samples received?	NO
3) Are there any sample container discrepancies?	NO
4) Are there any discrepancies between sample labels & COC?	NO
5) Are samples in appropriate containers for requested analysis?	YES
6) Are samples properly preserved for requested analysis?	YES
7) Are samples within holding time for requested analysis?	YES
8) All sampling equipment returned?	NA

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NO

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 12 2021, 03:12 pm

Login Number: L2159682

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 29OCT21 Due Date: 12NOV21

Sample # Client ID Mat PR Collected

L2159682-01 B-1 (3.5-4) 3 S0 29OCT21 12:20

| ASP-B Package Due Date: 11/12/21

ASP-B, ENCORE, NYTCL-8260HLW, TS

L2159682-02 B-1 (13.5-14) 3 S0 29OCT21 12:22

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-03 B-2 (3.5-4) 3 S0 29OCT21 11:41

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-04 B-2 (14.5-15) 3 S0 29OCT21 11:43

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-05 B-4 (1.5-2) 3 S0 29OCT21 09:15

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-06 B-4 (11.5-12) 3 S0 29OCT21 09:20

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-07 B-5 (0.5-1) 3 S0 29OCT21 08:30

| Package Due Date: 11/12/21

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 12 2021, 03:12 pm

Login Number: L2159682

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 29OCT21 Due Date: 12NOV21

Sample # Client ID Mat PR Collected

ENCORE, NYTCL-8260HLW, TS

L2159682-08 B-7 (9.5-10)

3 S0 29OCT21 09:40

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-09 B-7 (13.5-14)

3 S0 29OCT21 09:45

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-10 B-9 (1.5-2)

3 S0 29OCT21 07:45

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-11 B-9 (14.5-15)

3 S0 29OCT21 07:50

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-12 DUP

3 S0 29OCT21 00:00

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-13 FIELD BLANK

1 S0 29OCT21 12:25

| Package Due Date: 11/12/21

NYTCL-8260

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 12 2021, 03:12 pm

Login Number: L2159682

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 29OCT21 Due Date: 12NOV21

Sample # Client ID Mat PR Collected

L2159682-14 TRIP BLANK 1 S0 26OCT21 00:00

| Package Due Date: 11/12/21

NYTCL-8260

L2159682-15 B-8 (2-2.5) 3 S0 28OCT21 13:55

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-16 B-8 (4-4.5) 3 S0 28OCT21 14:00

| Package Due Date: 11/12/21

ENCORE, NYTCL-8260HLW, TS

L2159682-17 B-8 (6-6.5) 3 S0 28OCT21 14:05

| Package Due Date: 11/12/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159682-18 B-8 (8-8.5) 3 S0 28OCT21 14:07

| Package Due Date: 11/12/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159682-19 B-8 (10-10.5) 3 S0 28OCT21 14:10

| Package Due Date: 11/12/21

ENCORE, HOLD-8260HLW, HOLD-WETCHEM

L2159682-20 B-8 (12-12.5) 3 S0 28OCT21 14:15

| Package Due Date: 11/12/21

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 12 2021, 03:12 pm

Login Number: L2159682

Account: VERTEX-NJ The Vertex Companies, Inc. Project: 48122

Received: 29OCT21 Due Date: 12NOV21

Sample #	Client ID	Mat PR Collected

ENCORE, HOLD-8260HLW, HOLD-WETCHEM		

NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 3		Date Rec'd in Lab 10/30/21		ALPHA Job # L2159682										
		Project Information Project Name: <u>Rockfarmer</u> Project Location: <u>Jackson Heights, NY</u> Project # <u>48122</u> (Use Project name as Project #) ☐ Project Manager: <u>T. Bierce</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Deliverables ☐ NJ Full / Reduced ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☒ Other <u>NY ASP Category B</u>		Billing Information ☒ Same as Client Info PO # _____												
Client Information Client: <u>VERTEX</u> Address: <u>3322 Rt 22W, Ste 907</u> <u>Branichburg NJ 08876</u> Phone: <u>908 448 2627</u> Fax: <u>908 450 1443</u> Email: <u>tbierce@vertexeng.com</u>		Regulatory Requirement ☐ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☒ Other <u>NY</u>		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product: _____														
These samples have been previously analyzed by Alpha ☐ For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2 For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011		Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS VOCs		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)		Total Bottles										
ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials		Sample Specific Comments																
59682-01		B-1 (3.5-4)		10/29/21	1220	S	mc/TB	X										
-02		B-1 (13.5-14)			1222			X										
-03		B-2 (3.5-4)			1141			X										
-04		B-2 (14.5-15)			1143			X										
-05		B-4 (1.5-27)			0915			X										
-06		B-4 (11.5-12)			0920			X										
-07		B-5 (0.5-1)			0830			X										
		~~B-5 ()~~						X										
-08		B-7 (9.5-10)			0940			X										
-09		B-7 (13.5-14)			0945			X										
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type F/P		Preservative A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)								
Form No: 01-14 HC (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time										
		M. Kulon		10/29/21 1715		M. Kulon		10/29/21 1715										
		AAL		10/29/21 1915		AAL		10/29/21 1930										
		AAL		10/29/21		AAL		10/29/21 2230										
		AAL		10/30/21 00:10		AAL		10/30/21 00:10										

 NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-896-9220 FAX: 508-896-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-8300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 3		Date Rec'd In Lab 10/30/21		ALPHA Job # L 2159682	
		Project Information Project Name: <u>Kock Farmer</u> Project Location: <u>Jackson Heights, NY</u> Project # <u>48122</u> (Use Project name as Project #) ☐ Project Manager: <u>T. Bierce</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Deliverables ☐ NJ Full / Reduced ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☒ Other <u>NY ASP Category B</u>		Billing Information ☒ Same as Client Info PO # _____			
Client Information Client: <u>Vortex</u> Address: <u>3322 Rt 22W, Ste 907</u> <u>Branchburg, NJ 08876</u> Phone: <u>908 448 2627</u> Fax: <u>908 450 1443</u> Email: <u>tbierce@vortexny.com</u>		Regulatory Requirement ☐ SRS Residential/Non Residential ☐ SRS Impact to Groundwater ☐ NJ Ground Water Quality Standards ☐ NJ IGW SPLP Leachate Criteria ☒ Other <u>NY</u>		Site Information Is this site impacted by Petroleum? Yes ☐ Petroleum Product: _____					
These samples have been previously analyzed by Alpha ☐		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)					
For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2		For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011		Other project specific requirements/comments: Please specify Metals or TAL.					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time Matrix Sampler's Initials					
59682-10		B-9(1.5-2)		10/29/21 0745 S mk/TB					
-11		B-9(14.5-15)		0750 S mk/TB					
-12		DUP		S mk/TB					
-13		Field Blank		AQ ES					
-14		Trip Blank		10/26/21 — AQ ES					
-15		B-8(2-2.5)		10/28/21 1355 S mk/TB					
-16		B-8(4-4.5)		1400 S					
-17		B-8(6-6.5)		1405 S					
-18		B-8(8-8.5)		1407 S					
-19		B-8(10-10.5)		1410 S					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015					
Container Type <u>E/P</u>		Preservative <u>A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					
Relinquished By: <u>mk/TB</u>		Date/Time: <u>10/29/21 1715</u>		Received By: <u>FAAL</u>					
<u>FAAL</u>		<u>10/29/21 1915</u>		<u>26 A AAL</u>					
<u>26 A AAL</u>		<u>10/29</u>		<u>836 AAL</u>					
<u>Q36 AAL</u>		<u>10/30/21 00:10</u>		<u>10/30/21 00:10</u>					

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: The Vertex Companies, Inc.
Project Name: ROCKFARMER

Lab Number: L2159682
Project Number: 48122
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
FIELD BLANK (L2159682-13)	103	93	95	102	0
TRIP BLANK (L2159682-14)	105	94	92	104	0
WG1567182-3LCS	98	97	99	96	0
WG1567182-4LCSD	104	94	97	96	0
WG1567182-5BLANK	103	95	96	105	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260



Surrogate Recovery Summary

Form 2

Volatiles

Client: The Vertex Companies, Inc.
Project Name: ROCKFARMER

Lab Number: L2159682
Project Number: 48122
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
B-1 (3.5-4) (L2159682-01)	101	98	87	107	0
B-1 (13.5-14) (L2159682-02)	101	100	89	105	0
B-2 (3.5-4) (L2159682-03)	103	100	87	107	0
B-2 (14.5-15) (L2159682-04)	105	100	88	113	0
B-4 (1.5-2) (L2159682-05)	102	100	86	107	0
B-4 (11.5-12) (L2159682-06)	103	99	88	106	0
B-5 (0.5-1) (L2159682-07)	105	98	85	108	0
B-7 (9.5-10) (L2159682-08)	100	99	86	109	0
B-7 (13.5-14) (L2159682-09)	102	102	85	108	0
B-9 (1.5-2) (L2159682-10)	102	99	87	107	0
B-9 (14.5-15) (L2159682-11)	102	99	90	109	0
DUP (L2159682-12)	100	99	87	109	0
B-8 (2-2.5) (L2159682-15)	103	99	88	111	0
B-8 (4-4.5) (L2159682-16)	102	100	88	111	0
WG1567116-3LCS	83	102	93	86	0
WG1567116-4LCSD	85	102	94	86	0
WG1567116-5BLANK	96	100	86	97	0
WG1567587-3LCS	82	103	94	86	0
WG1567587-4LCSD	83	102	93	87	0
WG1567587-5BLANK	98	100	84	99	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567116-3 Analysis Date : 11/04/21 07:06 File ID : V04211104A02
 LCSD Sample ID : WG1567116-4 Analysis Date : 11/04/21 07:31 File ID : V04211104A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	39	98	40	39	96	2	70-130	30
1,1-Dichloroethane	40	39	98	40	38	96	2	70-130	30
Chloroform	40	35	89	40	35	87	2	70-130	30
Carbon tetrachloride	40	37	91	40	36	89	2	70-130	30
1,2-Dichloropropane	40	38	96	40	38	94	2	70-130	30
Dibromochloromethane	40	41	104	40	41	103	1	70-130	30
1,1,2-Trichloroethane	40	40	100	40	40	99	1	70-130	30
Tetrachloroethene	40	43	106	40	41	102	4	70-130	30
Chlorobenzene	40	40	101	40	39	98	3	70-130	30
Trichlorofluoromethane	40	37	94	40	36	90	4	70-139	30
1,2-Dichloroethane	40	36	89	40	35	88	1	70-130	30
1,1,1-Trichloroethane	40	39	97	40	37	92	5	70-130	30
Bromodichloromethane	40	37	92	40	37	91	1	70-130	30
trans-1,3-Dichloropropene	40	40	100	40	40	99	1	70-130	30
cis-1,3-Dichloropropene	40	40	100	40	39	99	1	70-130	30
1,1-Dichloropropene	40	40	101	40	39	99	2	70-130	30
Bromoform	40	34	86	40	35	87	1	70-130	30
1,1,2,2-Tetrachloroethane	40	35	89	40	36	90	1	70-130	30
Benzene	40	40	100	40	39	97	3	70-130	30
Toluene	40	41	101	40	40	99	2	70-130	30
Ethylbenzene	40	40	100	40	39	97	3	70-130	30
Chloromethane	40	47	116	40	45	113	3	52-130	30
Bromomethane	40	54	134	40	52	131	2	57-147	30
Vinyl chloride	40	47	116	40	45	111	4	67-130	30
Chloroethane	40	53	133	40	51	127	5	50-151	30
1,1-Dichloroethene	40	41	102	40	39	98	4	65-135	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567116-3 Analysis Date : 11/04/21 07:06 File ID : V04211104A02
 LCSD Sample ID : WG1567116-4 Analysis Date : 11/04/21 07:31 File ID : V04211104A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
trans-1,2-Dichloroethene	40	41	102	40	39	97	5	70-130	30
Trichloroethene	40	39	98	40	38	95	3	70-130	30
1,2-Dichlorobenzene	40	40	99	40	39	98	1	70-130	30
1,3-Dichlorobenzene	40	40	100	40	40	99	1	70-130	30
1,4-Dichlorobenzene	40	39	98	40	39	97	1	70-130	30
Methyl tert butyl ether	40	33	84	40	34	84	0	66-130	30
p/m-Xylene	80	85	106	80	83	104	2	70-130	30
o-Xylene	80	78	97	80	75	94	3	70-130	30
cis-1,2-Dichloroethene	40	39	98	40	39	96	2	70-130	30
Dibromomethane	40	36	90	40	36	90	0	70-130	30
Styrene	80	81	102	80	79	99	3	70-130	30
Dichlorodifluoromethane	40	36	90	40	34	86	5	30-146	30
Acetone	40	47	116	40	48	121	4	54-140	30
Carbon disulfide	40	35	88	40	34	85	3	59-130	30
2-Butanone	40	33	83	40	34	84	1	70-130	30
Vinyl acetate	40	38	95	40	38	96	1	70-130	30
4-Methyl-2-pentanone	40	36	91	40	37	92	1	70-130	30
1,2,3-Trichloropropane	40	33	82	40	34	84	2	68-130	30
2-Hexanone	40	33	83	40	34	84	1	70-130	30
Bromochloromethane	40	39	98	40	39	97	1	70-130	30
2,2-Dichloropropane	40	37	93	40	36	90	3	70-130	30
1,2-Dibromoethane	40	36	90	40	35	88	2	70-130	30
1,3-Dichloropropane	40	40	99	40	40	99	0	69-130	30
1,1,1,2-Tetrachloroethane	40	40	101	40	40	99	2	70-130	30
Bromobenzene	40	42	104	40	41	103	1	70-130	30
n-Butylbenzene	40	39	98	40	38	96	2	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567116-3 Analysis Date : 11/04/21 07:06 File ID : V04211104A02
 LCSD Sample ID : WG1567116-4 Analysis Date : 11/04/21 07:31 File ID : V04211104A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
sec-Butylbenzene	40	38	95	40	37	92	3	70-130	30
tert-Butylbenzene	40	39	98	40	39	96	2	70-130	30
o-Chlorotoluene	40	38	95	40	38	94	1	70-130	30
p-Chlorotoluene	40	38	95	40	37	94	1	70-130	30
1,2-Dibromo-3-chloropropane	40	38	94	40	38	96	2	68-130	30
Hexachlorobutadiene	40	35	88	40	35	87	1	67-130	30
Isopropylbenzene	40	38	94	40	37	92	2	70-130	30
p-Isopropyltoluene	40	39	97	40	38	95	2	70-130	30
Naphthalene	40	37	93	40	38	94	1	70-130	30
Acrylonitrile	40	32	81	40	33	82	1	70-130	30
n-Propylbenzene	40	40	100	40	39	98	2	70-130	30
1,2,3-Trichlorobenzene	40	40	100	40	39	98	2	70-130	30
1,2,4-Trichlorobenzene	40	42	105	40	41	102	3	70-130	30
1,3,5-Trimethylbenzene	40	35	88	40	34	86	2	70-130	30
1,2,4-Trimethylbenzene	40	36	89	40	35	88	1	70-130	30
1,4-Dioxane	2000	1800	88	2000	1800	90	2	65-136	30
p-Diethylbenzene	40	41	101	40	40	99	2	70-130	30
p-Ethyltoluene	40	38	94	40	37	92	2	70-130	30
1,2,4,5-Tetramethylbenzene	40	42	104	40	41	102	2	70-130	30
Ethyl ether	40	34	84	40	34	85	1	67-130	30
trans-1,4-Dichloro-2-butene	40	34	84	40	33	83	1	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : WATER
 LCS Sample ID : WG1567182-3 Analysis Date : 11/04/21 07:03 File ID : V08211104A01
 LCSD Sample ID : WG1567182-4 Analysis Date : 11/04/21 07:24 File ID : V08211104A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	10	10	100	10	9.0	90	11	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	8.7	87	10	9.5	95	9	63-132	20
1,2-Dichloropropane	10	9.7	97	10	9.9	99	2	70-130	20
Dibromochloromethane	10	7.9	79	10	8.3	83	5	63-130	20
1,1,2-Trichloroethane	10	9.2	92	10	9.2	92	0	70-130	20
Tetrachloroethene	10	9.6	96	10	9.8	98	2	70-130	20
Chlorobenzene	10	9.6	96	10	9.6	96	0	75-130	20
Trichlorofluoromethane	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	10	9.5	95	10	9.8	98	3	70-130	20
1,1,1-Trichloroethane	10	9.9	99	10	10	100	1	67-130	20
Bromodichloromethane	10	8.9	89	10	9.4	94	5	67-130	20
trans-1,3-Dichloropropene	10	7.9	79	10	8.1	81	3	70-130	20
cis-1,3-Dichloropropene	10	8.1	81	10	8.1	81	0	70-130	20
1,1-Dichloropropene	10	9.1	91	10	9.1	91	0	70-130	20
Bromoform	10	7.5	75	10	8.0	80	6	54-136	20
1,1,2,2-Tetrachloroethane	10	8.6	86	10	9.2	92	7	67-130	20
Benzene	10	9.3	93	10	9.5	95	2	70-130	20
Toluene	10	9.3	93	10	9.2	92	1	70-130	20
Ethylbenzene	10	9.6	96	10	9.6	96	0	70-130	20
Chloromethane	10	10	100	10	10	100	0	64-130	20
Bromomethane	10	12	120	10	11	110	9	39-139	20
Vinyl chloride	10	9.1	91	10	9.2	92	1	55-140	20
Chloroethane	10	13	130	10	13	130	0	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : WATER
 LCS Sample ID : WG1567182-3 Analysis Date : 11/04/21 07:03 File ID : V08211104A01
 LCSD Sample ID : WG1567182-4 Analysis Date : 11/04/21 07:24 File ID : V08211104A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
trans-1,2-Dichloroethene	10	11	110	10	11	110	0	70-130	20
Trichloroethene	10	9.4	94	10	9.6	96	2	70-130	20
1,2-Dichlorobenzene	10	9.4	94	10	9.7	97	3	70-130	20
1,3-Dichlorobenzene	10	9.7	97	10	9.9	99	2	70-130	20
1,4-Dichlorobenzene	10	9.5	95	10	9.9	99	4	70-130	20
Methyl tert butyl ether	10	10	100	10	11	110	10	63-130	20
p/m-Xylene	20	20	100	20	20	100	0	70-130	20
o-Xylene	20	19	95	20	20	100	5	70-130	20
cis-1,2-Dichloroethene	10	9.6	96	10	9.0	90	6	70-130	20
Dibromomethane	10	8.9	89	10	9.0	90	1	70-130	20
1,2,3-Trichloropropane	10	8.6	86	10	9.0	90	5	64-130	20
Acrylonitrile	10	8.5	85	10	7.5	75	13	70-130	20
Styrene	20	21	105	20	21	105	0	70-130	20
Dichlorodifluoromethane	10	8.8	88	10	8.8	88	0	36-147	20
Acetone	10	11	110	10	11	110	0	58-148	20
Carbon disulfide	10	10	100	10	12	120	18	51-130	20
2-Butanone	10	8.3	83	10	8.1	81	2	63-138	20
Vinyl acetate	10	8.9	89	10	8.1	81	9	70-130	20
4-Methyl-2-pentanone	10	7.0	70	10	7.6	76	8	59-130	20
2-Hexanone	10	7.2	72	10	7.2	72	0	57-130	20
Bromochloromethane	10	9.4	94	10	9.0	90	4	70-130	20
2,2-Dichloropropane	10	11	110	10	11	110	0	63-133	20
1,2-Dibromoethane	10	9.0	90	10	9.1	91	1	70-130	20
1,3-Dichloropropane	10	9.1	91	10	9.1	91	0	70-130	20
1,1,1,2-Tetrachloroethane	10	8.6	86	10	8.9	89	3	64-130	20
Bromobenzene	10	9.3	93	10	9.6	96	3	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : WATER
 LCS Sample ID : WG1567182-3 Analysis Date : 11/04/21 07:03 File ID : V08211104A01
 LCSD Sample ID : WG1567182-4 Analysis Date : 11/04/21 07:24 File ID : V08211104A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
n-Butylbenzene	10	10	100	10	11	110	10	53-136	20
sec-Butylbenzene	10	10	100	10	10	100	0	70-130	20
tert-Butylbenzene	10	9.5	95	10	9.9	99	4	70-130	20
o-Chlorotoluene	10	10	100	10	10	100	0	70-130	20
p-Chlorotoluene	10	9.7	97	10	10	100	3	70-130	20
1,2-Dibromo-3-chloropropane	10	7.3	73	10	8.2	82	12	41-144	20
Hexachlorobutadiene	10	9.5	95	10	10	100	5	63-130	20
Isopropylbenzene	10	9.7	97	10	10	100	3	70-130	20
p-Isopropyltoluene	10	9.8	98	10	10	100	2	70-130	20
Naphthalene	10	6.6	66 Q	10	7.5	75	13	70-130	20
n-Propylbenzene	10	10	100	10	10	100	0	69-130	20
1,2,3-Trichlorobenzene	10	7.3	73	10	8.1	81	10	70-130	20
1,2,4-Trichlorobenzene	10	8.3	83	10	9.1	91	9	70-130	20
1,3,5-Trimethylbenzene	10	9.6	96	10	9.9	99	3	64-130	20
1,2,4-Trimethylbenzene	10	9.6	96	10	9.9	99	3	70-130	20
1,4-Dioxane	500	470	94	500	470	94	0	56-162	20
p-Diethylbenzene	10	9.8	98	10	10	100	2	70-130	20
p-Ethyltoluene	10	10	100	10	10	100	0	70-130	20
1,2,4,5-Tetramethylbenzene	10	8.7	87	10	9.0	90	3	70-130	20
Ethyl ether	10	11	110	10	11	110	0	59-134	20
trans-1,4-Dichloro-2-butene	10	8.3	83	10	9.3	93	11	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567587-3 Analysis Date : 11/04/21 17:59 File ID : V04211104N01
 LCSD Sample ID : WG1567587-4 Analysis Date : 11/04/21 18:25 File ID : V04211104N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	39	97	40	39	98	1	70-130	30
1,1-Dichloroethane	40	40	99	40	40	100	1	70-130	30
Chloroform	40	35	88	40	36	89	1	70-130	30
Carbon tetrachloride	40	38	95	40	39	97	2	70-130	30
1,2-Dichloropropane	40	38	94	40	38	96	2	70-130	30
Dibromochloromethane	40	40	100	40	41	102	2	70-130	30
1,1,2-Trichloroethane	40	38	95	40	39	97	2	70-130	30
Tetrachloroethene	40	44	110	40	44	110	0	70-130	30
Chlorobenzene	40	40	100	40	40	101	1	70-130	30
Trichlorofluoromethane	40	42	104	40	41	103	1	70-139	30
1,2-Dichloroethane	40	34	85	40	35	88	3	70-130	30
1,1,1-Trichloroethane	40	40	100	40	40	101	1	70-130	30
Bromodichloromethane	40	36	89	40	37	92	3	70-130	30
trans-1,3-Dichloropropene	40	38	96	40	39	98	2	70-130	30
cis-1,3-Dichloropropene	40	38	96	40	39	98	2	70-130	30
1,1-Dichloropropene	40	43	107	40	44	109	2	70-130	30
Bromoform	40	33	82	40	33	83	1	70-130	30
1,1,2,2-Tetrachloroethane	40	33	82	40	34	84	2	70-130	30
Benzene	40	40	99	40	40	101	2	70-130	30
Toluene	40	41	101	40	41	102	1	70-130	30
Ethylbenzene	40	41	101	40	41	103	2	70-130	30
Chloromethane	40	49	121	40	48	120	1	52-130	30
Bromomethane	40	56	139	40	55	137	1	57-147	30
Vinyl chloride	40	51	126	40	49	124	2	67-130	30
Chloroethane	40	56	139	40	54	135	3	50-151	30
1,1-Dichloroethene	40	44	109	40	44	109	0	65-135	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567587-3 Analysis Date : 11/04/21 17:59 File ID : V04211104N01
 LCSD Sample ID : WG1567587-4 Analysis Date : 11/04/21 18:25 File ID : V04211104N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
trans-1,2-Dichloroethene	40	42	104	40	42	105	1	70-130	30
Trichloroethene	40	40	101	40	41	103	2	70-130	30
1,2-Dichlorobenzene	40	39	98	40	39	98	0	70-130	30
1,3-Dichlorobenzene	40	40	101	40	40	100	1	70-130	30
1,4-Dichlorobenzene	40	39	98	40	39	98	0	70-130	30
Methyl tert butyl ether	40	32	80	40	33	82	2	66-130	30
p/m-Xylene	80	86	107	80	86	108	1	70-130	30
o-Xylene	80	77	96	80	78	97	1	70-130	30
cis-1,2-Dichloroethene	40	39	96	40	39	99	3	70-130	30
Dibromomethane	40	34	85	40	36	89	5	70-130	30
Styrene	80	80	100	80	81	101	1	70-130	30
Dichlorodifluoromethane	40	40	100	40	40	99	1	30-146	30
Acetone	40	47	116	40	48	120	3	54-140	30
Carbon disulfide	40	37	93	40	37	92	1	59-130	30
2-Butanone	40	35	87	40	36	91	4	70-130	30
Vinyl acetate	40	33	84	40	35	87	4	70-130	30
4-Methyl-2-pentanone	40	33	82	40	34	86	5	70-130	30
1,2,3-Trichloropropane	40	32	79	40	32	80	1	68-130	30
2-Hexanone	40	30	75	40	31	79	5	70-130	30
Bromochloromethane	40	38	95	40	39	99	4	70-130	30
2,2-Dichloropropane	40	38	96	40	39	96	0	70-130	30
1,2-Dibromoethane	40	34	85	40	35	86	1	70-130	30
1,3-Dichloropropane	40	38	95	40	39	98	3	69-130	30
1,1,1,2-Tetrachloroethane	40	39	98	40	40	100	2	70-130	30
Bromobenzene	40	42	104	40	42	104	0	70-130	30
n-Butylbenzene	40	41	103	40	41	102	1	70-130	30



Laboratory Control Sample Summary

Form 3

Volatiles

Client : The Vertex Companies, Inc. Lab Number : L2159682
 Project Name : ROCKFARMER Project Number : 48122
 Matrix : SOIL
 LCS Sample ID : WG1567587-3 Analysis Date : 11/04/21 17:59 File ID : V04211104N01
 LCSD Sample ID : WG1567587-4 Analysis Date : 11/04/21 18:25 File ID : V04211104N02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
sec-Butylbenzene	40	40	100	40	40	100	0	70-130	30
tert-Butylbenzene	40	41	102	40	41	102	0	70-130	30
o-Chlorotoluene	40	39	98	40	39	97	1	70-130	30
p-Chlorotoluene	40	38	96	40	38	96	0	70-130	30
1,2-Dibromo-3-chloropropane	40	34	85	40	35	88	3	68-130	30
Hexachlorobutadiene	40	38	95	40	37	94	1	67-130	30
Isopropylbenzene	40	40	99	40	39	98	1	70-130	30
p-Isopropyltoluene	40	41	102	40	41	101	1	70-130	30
Naphthalene	40	36	89	40	37	92	3	70-130	30
Acrylonitrile	40	30	75	40	31	77	3	70-130	30
n-Propylbenzene	40	41	103	40	41	103	0	70-130	30
1,2,3-Trichlorobenzene	40	39	98	40	40	100	2	70-130	30
1,2,4-Trichlorobenzene	40	42	105	40	42	104	1	70-130	30
1,3,5-Trimethylbenzene	40	36	91	40	36	90	1	70-130	30
1,2,4-Trimethylbenzene	40	37	91	40	36	91	0	70-130	30
1,4-Dioxane	2000	1600	78	2000	1600	81	4	65-136	30
p-Diethylbenzene	40	42	106	40	42	105	1	70-130	30
p-Ethyltoluene	40	39	98	40	39	97	1	70-130	30
1,2,4,5-Tetramethylbenzene	40	42	105	40	42	104	1	70-130	30
Ethyl ether	40	33	82	40	33	82	0	67-130	30
trans-1,4-Dichloro-2-butene	40	32	80	40	30	75	6	70-130	30



**Method Blank Summary
Form 4
Volatiles**

Client	: The Vertex Companies, Inc.	Lab Number	: L2159682
Project Name	: ROCKFARMER	Project Number	: 48122
Lab Sample ID	: WG1567116-5	Lab File ID	: V04211104A05
Instrument ID	: VOA104		
Matrix	: SOIL	Analysis Date	: 11/04/21 08:21

Client Sample No.	Lab Sample ID	Analysis Date
WG1567116-3LCS	WG1567116-3	11/04/21 07:06
WG1567116-4LCSD	WG1567116-4	11/04/21 07:31
B-1 (3.5-4)	L2159682-01	11/04/21 14:40
B-1 (13.5-14)	L2159682-02	11/04/21 15:08
B-2 (3.5-4)	L2159682-03	11/04/21 15:33

Method Blank Summary
Form 4
Volatiles

Client	: The Vertex Companies, Inc.	Lab Number	: L2159682
Project Name	: ROCKFARMER	Project Number	: 48122
Lab Sample ID	: WG1567182-5	Lab File ID	: V08211104A05
Instrument ID	: VOA108		
Matrix	: WATER	Analysis Date	: 11/04/21 08:24

Client Sample No.	Lab Sample ID	Analysis Date
WG1567182-3LCS	WG1567182-3	11/04/21 07:03
WG1567182-4LCSD	WG1567182-4	11/04/21 07:24
FIELD BLANK	L2159682-13	11/04/21 14:50
TRIP BLANK	L2159682-14	11/04/21 15:11

**Method Blank Summary
Form 4
Volatiles**

Client	: The Vertex Companies, Inc.	Lab Number	: L2159682
Project Name	: ROCKFARMER	Project Number	: 48122
Lab Sample ID	: WG1567587-5	Lab File ID	: V04211104N05
Instrument ID	: VOA104		
Matrix	: SOIL	Analysis Date	: 11/04/21 19:40

Client Sample No.	Lab Sample ID	Analysis Date
WG1567587-3LCS	WG1567587-3	11/04/21 17:59
WG1567587-4LCSD	WG1567587-4	11/04/21 18:25
B-2 (14.5-15)	L2159682-04	11/04/21 20:05
B-4 (1.5-2)	L2159682-05	11/04/21 20:31
B-4 (11.5-12)	L2159682-06	11/04/21 20:56
B-5 (0.5-1)	L2159682-07	11/04/21 21:21
B-7 (9.5-10)	L2159682-08	11/04/21 21:46
B-7 (13.5-14)	L2159682-09	11/04/21 22:11
B-9 (1.5-2)	L2159682-10	11/04/21 22:36
B-9 (14.5-15)	L2159682-11	11/04/21 23:02
DUP	L2159682-12	11/04/21 23:27
B-8 (2-2.5)	L2159682-15	11/04/21 23:52
B-8 (4-4.5)	L2159682-16	11/05/21 00:17

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159682
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : VOA104	Analysis Date : 07/07/21 19:41
Tune Standard : WG1521748-1	Tune File ID : V04210707NBFB2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (.5)1
174	Greater than 50.0 of mass 95	84.4
175	5.0 - 9.0% of mass 174	6.2 (7.4)1
176	95.0 - 101% of mass 174	81.8 (96.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.4)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1455114-1	V04210707N03	07/07/21 20:54
STD1PPB	R1455114-4	V04210707N04	07/07/21 21:19
STD2PPB	R1455114-3	V04210707N05	07/07/21 21:44
STD4PPB	R1455114-2	V04210707N06	07/07/21 22:09
STD20PPB	R1455114-6	V04210707N07	07/07/21 22:34
STD40PPB	R1455114-5	V04210707N08	07/07/21 23:00
STD100PPB	R1455114-7	V04210707N09	07/07/21 23:25
STD200PPB	R1455114-8	V04210707N10	07/07/21 23:50
STD300PPB	R1455114-9	V04210707N11	07/08/21 00:16
ICV Quant Report	R1455114-10	V04210707N15	07/08/21 01:57

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159682
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : VOA104	Analysis Date : 11/04/21 06:18
Tune Standard : WG1567116-1	Tune File ID : V04211104BF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	45.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4 (.4)1
174	Greater than 50.0 of mass 95	87
175	5.0 - 9.0% of mass 174	6.6 (7.6)1
176	95.0 - 101% of mass 174	85.3 (98)1
177	5.0 - 9.0% of mass 176	5.6 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1567116-2CCAL	WG1567116-2	V04211104A02	11/04/21 07:06
WG1567116-3LCS	WG1567116-3	V04211104A02	11/04/21 07:06
WG1567116-4LCSD	WG1567116-4	V04211104A03	11/04/21 07:31
WG1567116-5BLANK	WG1567116-5	V04211104A05	11/04/21 08:21
B-1 (3.5-4)	L2159682-01	V04211104A20	11/04/21 14:40
B-1 (13.5-14)	L2159682-02	V04211104A21	11/04/21 15:08
B-2 (3.5-4)	L2159682-03	V04211104A22	11/04/21 15:33

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159682
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : VOA104	Analysis Date : 11/04/21 17:37
Tune Standard : WG1567587-1	Tune File ID : V04211104BF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	45.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	88
175	5.0 - 9.0% of mass 174	6.7 (7.6)1
176	95.0 - 101% of mass 174	85.4 (97)1
177	5.0 - 9.0% of mass 176	6 (7.1)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1567587-2CCAL	WG1567587-2	V04211104N01	11/04/21 17:59
WG1567587-3LCS	WG1567587-3	V04211104N01	11/04/21 17:59
WG1567587-4LCSD	WG1567587-4	V04211104N02	11/04/21 18:25
WG1567587-5BLANK	WG1567587-5	V04211104N05	11/04/21 19:40
B-2 (14.5-15)	L2159682-04	V04211104N06	11/04/21 20:05
B-4 (1.5-2)	L2159682-05	V04211104N07	11/04/21 20:31
B-4 (11.5-12)	L2159682-06	V04211104N08	11/04/21 20:56
B-5 (0.5-1)	L2159682-07	V04211104N09	11/04/21 21:21
B-7 (9.5-10)	L2159682-08	V04211104N10	11/04/21 21:46
B-7 (13.5-14)	L2159682-09	V04211104N11	11/04/21 22:11
B-9 (1.5-2)	L2159682-10	V04211104N12	11/04/21 22:36
B-9 (14.5-15)	L2159682-11	V04211104N13	11/04/21 23:02
DUP	L2159682-12	V04211104N14	11/04/21 23:27
B-8 (2-2.5)	L2159682-15	V04211104N15	11/04/21 23:52
B-8 (4-4.5)	L2159682-16	V04211104N16	11/05/21 00:17



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159682
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : VOA108	Analysis Date : 10/04/21 23:42
Tune Standard : WG1554783-1	Tune File ID : V08211004BBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (1)1
174	Greater than 50.0 of mass 95	77.4
175	5.0 - 9.0% of mass 174	6.1 (7.9)1
176	95.0 - 101% of mass 174	74.4 (96.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD.19PPB	R1486262-1	V08211004N04	10/05/21 01:04
STD.5PPB	R1486262-2	V08211004N06	10/05/21 01:44
STD2PPB	R1486262-3	V08211004N08	10/05/21 02:25
STD10PPB	R1486262-5	V08211004N09	10/05/21 02:45
STD30PPB	R1486262-4	V08211004N10	10/05/21 03:05
STD80PPB	R1486262-7	V08211004N11	10/05/21 03:26
STD120PPB	R1486262-6	V08211004N12	10/05/21 03:46
STD200PPB	R1486262-8	V08211004N13	10/05/21 04:06
ICV Quant Report	R1486262-9	V08211004N19	10/05/21 06:08

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : The Vertex Companies, Inc.	Lab Number : L2159682
Project Name : ROCKFARMER	Project Number : 48122
Instrument ID : VOA108	Analysis Date : 11/04/21 06:53
Tune Standard : WG1567182-1	Tune File ID : V08211104ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (.7)1
174	Greater than 50.0 of mass 95	73.2
175	5.0 - 9.0% of mass 174	5.4 (7.4)1
176	95.0 - 101% of mass 174	71.6 (97.8)1
177	5.0 - 9.0% of mass 176	4.7 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1567182-2CCAL	WG1567182-2	V08211104A01	11/04/21 07:03
WG1567182-3LCS	WG1567182-3	V08211104A01	11/04/21 07:03
WG1567182-4LCSD	WG1567182-4	V08211104A02	11/04/21 07:24
WG1567182-5BLANK	WG1567182-5	V08211104A05	11/04/21 08:24
FIELD BLANK	L2159682-13	V08211104A24	11/04/21 14:50
TRIP BLANK	L2159682-14	V08211104A25	11/04/21 15:11

Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Sample No : WG1567182-2

Lab Number : L2159682
 Project Number : 48122
 Analysis Date : 11/04/21 07:03:00
 Lab File ID : V08211104A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1567182-2	317596	5.20	234349	8.30	124409	9.82
Upper Limit	635192	5.70	468698	8.80	248818	10.32
Lower Limit	158798	4.70	117175	7.80	62205	9.32
Sample ID						
WG1567182-3 LCS	317596	5.20	234349	8.30	124409	9.82
WG1567182-4 LCSD	317895	5.20	239715	8.31	123406	9.82
WG1567182-5 BLANK	280440	5.20	214816	8.31	106772	9.82
FIELD BLANK	278923	5.21	218010	8.31	108352	9.82
TRIP BLANK	280003	5.20	215392	8.31	109633	9.82

Area Upper Limit = +100% 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



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Sample No : WG1567116-2

Lab Number : L2159682
 Project Number : 48122
 Analysis Date : 11/04/21 07:06:00
 Lab File ID : V04211104A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1567116-2	263077	5.58	187330	9.06	102658	11.85
Upper Limit	526154	6.08	374660	9.56	205316	12.35
Lower Limit	131539	5.08	93665	8.56	51329	11.35
Sample ID						
WG1567116-3 LCS	263077	5.58	187330	9.06	102658	11.85
WG1567116-4 LCSD	266332	5.58	191059	9.06	103077	11.85
WG1567116-5 BLANK	224732	5.58	182741	9.06	107236	11.85
B-1 (3.5-4)	215132	5.58	186186	9.06	107340	11.86
B-1 (13.5-14)	210649	5.58	181190	9.06	102951	11.85
B-2 (3.5-4)	212687	5.58	183061	9.06	105748	11.85

Area Upper Limit = +100% 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



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Sample No : WG1567587-2

Lab Number : L2159682
 Project Number : 48122
 Analysis Date : 11/04/21 17:59:00
 Lab File ID : V04211104N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1567587-2	265810	5.58	186983	9.06	99430	11.85
Upper Limit	531620	6.08	373966	9.56	198860	12.35
Lower Limit	132905	5.08	93492	8.56	49715	11.35
Sample ID						
WG1567587-3 LCS	265810	5.58	186983	9.06	99430	11.85
WG1567587-4 LCSD	256795	5.58	183212	9.06	99602	11.85
WG1567587-5 BLANK	217565	5.58	182406	9.06	106454	11.85
B-2 (14.5-15)	202075	5.58	181690	9.06	105413	11.86
B-4 (1.5-2)	211793	5.58	182760	9.06	106631	11.85
B-4 (11.5-12)	213339	5.58	185748	9.06	106645	11.85
B-5 (0.5-1)	205415	5.58	180348	9.06	104890	11.86
B-7 (9.5-10)	198521	5.58	175502	9.06	101504	11.85
B-7 (13.5-14)	194631	5.58	174536	9.06	100287	11.85
B-9 (1.5-2)	208308	5.58	180922	9.06	102819	11.85
B-9 (14.5-15)	198761	5.58	173316	9.06	97569	11.85
DUP	200222	5.58	176857	9.06	100653	11.85
B-8 (2-2.5)	197930	5.58	179488	9.06	101657	11.85
B-8 (4-4.5)	193979	5.58	176880	9.06	98517	11.85

Area Upper Limit = +100% 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





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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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File: PM5047-1
Page: 1

Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
 Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
 Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days

Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-01
 Client ID : B-1 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A20
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	10	4.6	U
75-34-3	1,1-Dichloroethane	ND	2.0	0.29	U
67-66-3	Chloroform	ND	3.0	0.28	U
56-23-5	Carbon tetrachloride	ND	2.0	0.46	U
78-87-5	1,2-Dichloropropane	ND	2.0	0.25	U
124-48-1	Dibromochloromethane	ND	2.0	0.28	U
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.54	U
127-18-4	Tetrachloroethene	ND	1.0	0.40	U
108-90-7	Chlorobenzene	ND	1.0	0.26	U
75-69-4	Trichlorofluoromethane	ND	8.1	1.4	U
107-06-2	1,2-Dichloroethane	ND	2.0	0.52	U
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	U
75-27-4	Bromodichloromethane	ND	1.0	0.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.55	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.32	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.32	U
563-58-6	1,1-Dichloropropene	ND	1.0	0.32	U
75-25-2	Bromoform	ND	8.1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	U
71-43-2	Benzene	ND	1.0	0.33	U
108-88-3	Toluene	ND	2.0	1.1	U
100-41-4	Ethylbenzene	ND	2.0	0.28	U
74-87-3	Chloromethane	ND	8.1	1.9	U
74-83-9	Bromomethane	ND	4.0	1.2	U
75-01-4	Vinyl chloride	ND	2.0	0.68	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-01
 Client ID : B-1 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A20
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	4.0	0.91	U
75-35-4	1,1-Dichloroethene	ND	2.0	0.48	U
156-60-5	trans-1,2-Dichloroethene	ND	3.0	0.28	U
79-01-6	Trichloroethene	ND	1.0	0.28	U
95-50-1	1,2-Dichlorobenzene	ND	4.0	0.29	U
541-73-1	1,3-Dichlorobenzene	ND	4.0	0.30	U
106-46-7	1,4-Dichlorobenzene	ND	4.0	0.34	U
1634-04-4	Methyl tert butyl ether	ND	4.0	0.40	U
179601-23-1	p/m-Xylene	ND	4.0	1.1	U
95-47-6	o-Xylene	ND	2.0	0.59	U
1330-20-7	Xylenes, Total	ND	2.0	0.59	U
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.35	U
540-59-0	1,2-Dichloroethene, Total	ND	2.0	0.28	U
74-95-3	Dibromomethane	ND	4.0	0.48	U
100-42-5	Styrene	ND	2.0	0.40	U
75-71-8	Dichlorodifluoromethane	ND	20	1.8	U
67-64-1	Acetone	ND	20	9.7	U
75-15-0	Carbon disulfide	ND	20	9.2	U
78-93-3	2-Butanone	ND	20	4.5	U
108-05-4	Vinyl acetate	ND	20	4.3	U
108-10-1	4-Methyl-2-pentanone	ND	20	2.6	U
96-18-4	1,2,3-Trichloropropane	ND	4.0	0.26	U
591-78-6	2-Hexanone	ND	20	2.4	U
74-97-5	Bromochloromethane	ND	4.0	0.41	U
594-20-7	2,2-Dichloropropane	ND	4.0	0.41	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-01
 Client ID : B-1 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A20
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.0	0.56	U
142-28-9	1,3-Dichloropropane	ND	4.0	0.34	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.27	U
108-86-1	Bromobenzene	ND	4.0	0.29	U
104-51-8	n-Butylbenzene	ND	2.0	0.34	U
135-98-8	sec-Butylbenzene	ND	2.0	0.29	U
98-06-6	tert-Butylbenzene	ND	4.0	0.24	U
95-49-8	o-Chlorotoluene	ND	4.0	0.38	U
106-43-4	p-Chlorotoluene	ND	4.0	0.22	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.0	2.0	U
87-68-3	Hexachlorobutadiene	ND	8.1	0.34	U
98-82-8	Isopropylbenzene	ND	2.0	0.22	U
99-87-6	p-Isopropyltoluene	ND	2.0	0.22	U
91-20-3	Naphthalene	ND	8.1	1.3	U
107-13-1	Acrylonitrile	ND	8.1	2.3	U
103-65-1	n-Propylbenzene	ND	2.0	0.34	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	0.65	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.55	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	0.39	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	0.67	U
123-91-1	1,4-Dioxane	ND	160	71.	U
105-05-5	p-Diethylbenzene	ND	4.0	0.36	U
622-96-8	p-Ethyltoluene	ND	4.0	0.77	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.0	0.38	U
60-29-7	Ethyl ether	ND	4.0	0.69	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-01
 Client ID : B-1 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A20
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:40
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	10	2.9	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-02
 Client ID : B-1 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A21
 Sample Amount : 1.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:22
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:08
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 99
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	14	6.2	U
75-34-3	1,1-Dichloroethane	ND	2.7	0.39	U
67-66-3	Chloroform	ND	4.0	0.38	U
56-23-5	Carbon tetrachloride	ND	2.7	0.62	U
78-87-5	1,2-Dichloropropane	ND	2.7	0.34	U
124-48-1	Dibromochloromethane	ND	2.7	0.38	U
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.72	U
127-18-4	Tetrachloroethene	ND	1.4	0.53	U
108-90-7	Chlorobenzene	ND	1.4	0.34	U
75-69-4	Trichlorofluoromethane	ND	11	1.9	U
107-06-2	1,2-Dichloroethane	ND	2.7	0.69	U
71-55-6	1,1,1-Trichloroethane	ND	1.4	0.45	U
75-27-4	Bromodichloromethane	ND	1.4	0.29	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.74	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	0.43	U
542-75-6	1,3-Dichloropropene, Total	ND	1.4	0.43	U
563-58-6	1,1-Dichloropropene	ND	1.4	0.43	U
75-25-2	Bromoform	ND	11	0.66	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	1.4	0.45	U
71-43-2	Benzene	ND	1.4	0.45	U
108-88-3	Toluene	ND	2.7	1.5	U
100-41-4	Ethylbenzene	ND	2.7	0.38	U
74-87-3	Chloromethane	ND	11	2.5	U
74-83-9	Bromomethane	ND	5.4	1.6	U
75-01-4	Vinyl chloride	ND	2.7	0.90	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-02
 Client ID : B-1 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A21
 Sample Amount : 1.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:22
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:08
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 99
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	5.4	1.2	U
75-35-4	1,1-Dichloroethene	ND	2.7	0.64	U
156-60-5	trans-1,2-Dichloroethene	ND	4.0	0.37	U
79-01-6	Trichloroethene	ND	1.4	0.37	U
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.39	U
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.40	U
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.46	U
1634-04-4	Methyl tert butyl ether	ND	5.4	0.54	U
179601-23-1	p/m-Xylene	ND	5.4	1.5	U
95-47-6	o-Xylene	ND	2.7	0.78	U
1330-20-7	Xylenes, Total	ND	2.7	0.78	U
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.47	U
540-59-0	1,2-Dichloroethene, Total	ND	2.7	0.37	U
74-95-3	Dibromomethane	ND	5.4	0.64	U
100-42-5	Styrene	ND	2.7	0.53	U
75-71-8	Dichlorodifluoromethane	ND	27	2.5	U
67-64-1	Acetone	ND	27	13.	U
75-15-0	Carbon disulfide	ND	27	12.	U
78-93-3	2-Butanone	ND	27	6.0	U
108-05-4	Vinyl acetate	ND	27	5.8	U
108-10-1	4-Methyl-2-pentanone	ND	27	3.4	U
96-18-4	1,2,3-Trichloropropane	ND	5.4	0.34	U
591-78-6	2-Hexanone	ND	27	3.2	U
74-97-5	Bromochloromethane	ND	5.4	0.55	U
594-20-7	2,2-Dichloropropane	ND	5.4	0.54	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-02
 Client ID : B-1 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A21
 Sample Amount : 1.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:22
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:08
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 99
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.7	0.75	U
142-28-9	1,3-Dichloropropane	ND	5.4	0.45	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.4	0.36	U
108-86-1	Bromobenzene	ND	5.4	0.39	U
104-51-8	n-Butylbenzene	ND	2.7	0.45	U
135-98-8	sec-Butylbenzene	ND	2.7	0.39	U
98-06-6	tert-Butylbenzene	ND	5.4	0.32	U
95-49-8	o-Chlorotoluene	ND	5.4	0.52	U
106-43-4	p-Chlorotoluene	ND	5.4	0.29	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.1	2.7	U
87-68-3	Hexachlorobutadiene	ND	11	0.46	U
98-82-8	Isopropylbenzene	ND	2.7	0.29	U
99-87-6	p-Isopropyltoluene	ND	2.7	0.29	U
91-20-3	Naphthalene	ND	11	1.8	U
107-13-1	Acrylonitrile	ND	11	3.1	U
103-65-1	n-Propylbenzene	ND	2.7	0.46	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.87	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.73	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	0.52	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	0.90	U
123-91-1	1,4-Dioxane	ND	220	95.	U
105-05-5	p-Diethylbenzene	ND	5.4	0.48	U
622-96-8	p-Ethyltoluene	ND	5.4	1.0	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	5.4	0.52	U
60-29-7	Ethyl ether	ND	5.4	0.92	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-02
 Client ID : B-1 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A21
 Sample Amount : 1.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:22
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:08
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 99
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	14	3.8	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-03
 Client ID : B-2 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A22
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:41
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:33
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	10	4.6	U
75-34-3	1,1-Dichloroethane	ND	2.0	0.29	U
67-66-3	Chloroform	ND	3.0	0.28	U
56-23-5	Carbon tetrachloride	ND	2.0	0.46	U
78-87-5	1,2-Dichloropropane	ND	2.0	0.25	U
124-48-1	Dibromochloromethane	ND	2.0	0.28	U
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.54	U
127-18-4	Tetrachloroethene	ND	1.0	0.39	U
108-90-7	Chlorobenzene	ND	1.0	0.25	U
75-69-4	Trichlorofluoromethane	ND	8.0	1.4	U
107-06-2	1,2-Dichloroethane	ND	2.0	0.52	U
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	U
75-27-4	Bromodichloromethane	ND	1.0	0.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.55	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.32	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.32	U
563-58-6	1,1-Dichloropropene	ND	1.0	0.32	U
75-25-2	Bromoform	ND	8.0	0.49	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	U
71-43-2	Benzene	ND	1.0	0.33	U
108-88-3	Toluene	ND	2.0	1.1	U
100-41-4	Ethylbenzene	ND	2.0	0.28	U
74-87-3	Chloromethane	ND	8.0	1.9	U
74-83-9	Bromomethane	ND	4.0	1.2	U
75-01-4	Vinyl chloride	ND	2.0	0.67	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-03
 Client ID : B-2 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A22
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:41
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:33
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	4.0	0.91	U
75-35-4	1,1-Dichloroethene	ND	2.0	0.48	U
156-60-5	trans-1,2-Dichloroethene	ND	3.0	0.27	U
79-01-6	Trichloroethene	ND	1.0	0.27	U
95-50-1	1,2-Dichlorobenzene	ND	4.0	0.29	U
541-73-1	1,3-Dichlorobenzene	ND	4.0	0.30	U
106-46-7	1,4-Dichlorobenzene	ND	4.0	0.34	U
1634-04-4	Methyl tert butyl ether	ND	4.0	0.40	U
179601-23-1	p/m-Xylene	ND	4.0	1.1	U
95-47-6	o-Xylene	ND	2.0	0.58	U
1330-20-7	Xylenes, Total	ND	2.0	0.58	U
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.35	U
540-59-0	1,2-Dichloroethene, Total	ND	2.0	0.27	U
74-95-3	Dibromomethane	ND	4.0	0.48	U
100-42-5	Styrene	ND	2.0	0.39	U
75-71-8	Dichlorodifluoromethane	ND	20	1.8	U
67-64-1	Acetone	ND	20	9.6	U
75-15-0	Carbon disulfide	ND	20	9.1	U
78-93-3	2-Butanone	ND	20	4.4	U
108-05-4	Vinyl acetate	ND	20	4.3	U
108-10-1	4-Methyl-2-pentanone	ND	20	2.6	U
96-18-4	1,2,3-Trichloropropane	ND	4.0	0.25	U
591-78-6	2-Hexanone	ND	20	2.4	U
74-97-5	Bromochloromethane	ND	4.0	0.41	U
594-20-7	2,2-Dichloropropane	ND	4.0	0.40	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-03
 Client ID : B-2 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A22
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:41
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:33
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.0	0.56	U
142-28-9	1,3-Dichloropropane	ND	4.0	0.33	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.26	U
108-86-1	Bromobenzene	ND	4.0	0.29	U
104-51-8	n-Butylbenzene	ND	2.0	0.33	U
135-98-8	sec-Butylbenzene	ND	2.0	0.29	U
98-06-6	tert-Butylbenzene	ND	4.0	0.24	U
95-49-8	o-Chlorotoluene	ND	4.0	0.38	U
106-43-4	p-Chlorotoluene	ND	4.0	0.22	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.0	2.0	U
87-68-3	Hexachlorobutadiene	ND	8.0	0.34	U
98-82-8	Isopropylbenzene	ND	2.0	0.22	U
99-87-6	p-Isopropyltoluene	ND	2.0	0.22	U
91-20-3	Naphthalene	ND	8.0	1.3	U
107-13-1	Acrylonitrile	ND	8.0	2.3	U
103-65-1	n-Propylbenzene	ND	2.0	0.34	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	0.64	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.54	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	0.39	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	0.67	U
123-91-1	1,4-Dioxane	ND	160	70.	U
105-05-5	p-Diethylbenzene	ND	4.0	0.35	U
622-96-8	p-Ethyltoluene	ND	4.0	0.77	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.0	0.38	U
60-29-7	Ethyl ether	ND	4.0	0.68	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-03
 Client ID : B-2 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A22
 Sample Amount : 2.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:41
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:33
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	10	2.8	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-04
 Client ID : B-2 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N06
 Sample Amount : 3.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:43
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:05
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	7.5	3.4	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.22	U
67-66-3	Chloroform	ND	2.2	0.21	U
56-23-5	Carbon tetrachloride	ND	1.5	0.34	U
78-87-5	1,2-Dichloropropane	ND	1.5	0.19	U
124-48-1	Dibromochloromethane	ND	1.5	0.21	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.40	U
127-18-4	Tetrachloroethene	0.37	0.75	0.29	J
108-90-7	Chlorobenzene	ND	0.75	0.19	U
75-69-4	Trichlorofluoromethane	ND	6.0	1.0	U
107-06-2	1,2-Dichloroethane	ND	1.5	0.38	U
71-55-6	1,1,1-Trichloroethane	ND	0.75	0.25	U
75-27-4	Bromodichloromethane	ND	0.75	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.24	U
542-75-6	1,3-Dichloropropene, Total	ND	0.75	0.24	U
563-58-6	1,1-Dichloropropene	ND	0.75	0.24	U
75-25-2	Bromoform	ND	6.0	0.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.75	0.25	U
71-43-2	Benzene	ND	0.75	0.25	U
108-88-3	Toluene	ND	1.5	0.81	U
100-41-4	Ethylbenzene	ND	1.5	0.21	U
74-87-3	Chloromethane	ND	6.0	1.4	U
74-83-9	Bromomethane	ND	3.0	0.87	U
75-01-4	Vinyl chloride	ND	1.5	0.50	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-04
 Client ID : B-2 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N06
 Sample Amount : 3.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:43
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:05
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.0	0.67	U
75-35-4	1,1-Dichloroethene	ND	1.5	0.36	U
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.20	U
79-01-6	Trichloroethene	ND	0.75	0.20	U
95-50-1	1,2-Dichlorobenzene	ND	3.0	0.21	U
541-73-1	1,3-Dichlorobenzene	ND	3.0	0.22	U
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.26	U
1634-04-4	Methyl tert butyl ether	ND	3.0	0.30	U
179601-23-1	p/m-Xylene	ND	3.0	0.84	U
95-47-6	o-Xylene	ND	1.5	0.43	U
1330-20-7	Xylenes, Total	ND	1.5	0.43	U
156-59-2	cis-1,2-Dichloroethene	ND	1.5	0.26	U
540-59-0	1,2-Dichloroethene, Total	ND	1.5	0.20	U
74-95-3	Dibromomethane	ND	3.0	0.36	U
100-42-5	Styrene	ND	1.5	0.29	U
75-71-8	Dichlorodifluoromethane	ND	15	1.4	U
67-64-1	Acetone	110	15	7.2	
75-15-0	Carbon disulfide	ND	15	6.8	U
78-93-3	2-Butanone	ND	15	3.3	U
108-05-4	Vinyl acetate	ND	15	3.2	U
108-10-1	4-Methyl-2-pentanone	ND	15	1.9	U
96-18-4	1,2,3-Trichloropropane	ND	3.0	0.19	U
591-78-6	2-Hexanone	ND	15	1.8	U
74-97-5	Bromochloromethane	ND	3.0	0.30	U
594-20-7	2,2-Dichloropropane	ND	3.0	0.30	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-04
 Client ID : B-2 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N06
 Sample Amount : 3.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:43
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:05
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.5	0.42	U
142-28-9	1,3-Dichloropropane	ND	3.0	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.75	0.20	U
108-86-1	Bromobenzene	ND	3.0	0.22	U
104-51-8	n-Butylbenzene	ND	1.5	0.25	U
135-98-8	sec-Butylbenzene	ND	1.5	0.22	U
98-06-6	tert-Butylbenzene	ND	3.0	0.18	U
95-49-8	o-Chlorotoluene	ND	3.0	0.28	U
106-43-4	p-Chlorotoluene	ND	3.0	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	1.5	U
87-68-3	Hexachlorobutadiene	ND	6.0	0.25	U
98-82-8	Isopropylbenzene	ND	1.5	0.16	U
99-87-6	p-Isopropyltoluene	ND	1.5	0.16	U
91-20-3	Naphthalene	ND	6.0	0.97	U
107-13-1	Acrylonitrile	ND	6.0	1.7	U
103-65-1	n-Propylbenzene	ND	1.5	0.26	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.0	0.48	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.0	0.40	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.0	0.29	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.0	0.50	U
123-91-1	1,4-Dioxane	ND	120	52.	U
105-05-5	p-Diethylbenzene	ND	3.0	0.26	U
622-96-8	p-Ethyltoluene	ND	3.0	0.57	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.0	0.28	U
60-29-7	Ethyl ether	ND	3.0	0.51	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-04
 Client ID : B-2 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N06
 Sample Amount : 3.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:43
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:05
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	7.5	2.1	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-05
 Client ID : B-4 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N07
 Sample Amount : 2.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:15
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:31
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.5	4.4	U
75-34-3	1,1-Dichloroethane	ND	1.9	0.28	U
67-66-3	Chloroform	ND	2.8	0.27	U
56-23-5	Carbon tetrachloride	ND	1.9	0.44	U
78-87-5	1,2-Dichloropropane	ND	1.9	0.24	U
124-48-1	Dibromochloromethane	ND	1.9	0.27	U
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.51	U
127-18-4	Tetrachloroethene	ND	0.95	0.37	U
108-90-7	Chlorobenzene	ND	0.95	0.24	U
75-69-4	Trichlorofluoromethane	ND	7.6	1.3	U
107-06-2	1,2-Dichloroethane	ND	1.9	0.49	U
71-55-6	1,1,1-Trichloroethane	ND	0.95	0.32	U
75-27-4	Bromodichloromethane	ND	0.95	0.21	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.52	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.95	0.30	U
542-75-6	1,3-Dichloropropene, Total	ND	0.95	0.30	U
563-58-6	1,1-Dichloropropene	ND	0.95	0.30	U
75-25-2	Bromoform	ND	7.6	0.47	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.95	0.32	U
71-43-2	Benzene	ND	0.95	0.32	U
108-88-3	Toluene	ND	1.9	1.0	U
100-41-4	Ethylbenzene	ND	1.9	0.27	U
74-87-3	Chloromethane	ND	7.6	1.8	U
74-83-9	Bromomethane	ND	3.8	1.1	U
75-01-4	Vinyl chloride	ND	1.9	0.64	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-05
 Client ID : B-4 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N07
 Sample Amount : 2.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:15
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:31
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.8	0.86	U
75-35-4	1,1-Dichloroethene	ND	1.9	0.45	U
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.26	U
79-01-6	Trichloroethene	ND	0.95	0.26	U
95-50-1	1,2-Dichlorobenzene	ND	3.8	0.27	U
541-73-1	1,3-Dichlorobenzene	ND	3.8	0.28	U
106-46-7	1,4-Dichlorobenzene	ND	3.8	0.32	U
1634-04-4	Methyl tert butyl ether	ND	3.8	0.38	U
179601-23-1	p/m-Xylene	ND	3.8	1.1	U
95-47-6	o-Xylene	ND	1.9	0.55	U
1330-20-7	Xylenes, Total	ND	1.9	0.55	U
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.33	U
540-59-0	1,2-Dichloroethene, Total	ND	1.9	0.26	U
74-95-3	Dibromomethane	ND	3.8	0.45	U
100-42-5	Styrene	ND	1.9	0.37	U
75-71-8	Dichlorodifluoromethane	ND	19	1.7	U
67-64-1	Acetone	ND	19	9.1	U
75-15-0	Carbon disulfide	ND	19	8.6	U
78-93-3	2-Butanone	ND	19	4.2	U
108-05-4	Vinyl acetate	ND	19	4.1	U
108-10-1	4-Methyl-2-pentanone	ND	19	2.4	U
96-18-4	1,2,3-Trichloropropane	ND	3.8	0.24	U
591-78-6	2-Hexanone	ND	19	2.2	U
74-97-5	Bromochloromethane	ND	3.8	0.39	U
594-20-7	2,2-Dichloropropane	ND	3.8	0.38	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-05
 Client ID : B-4 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N07
 Sample Amount : 2.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:15
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:31
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.9	0.53	U
142-28-9	1,3-Dichloropropane	ND	3.8	0.32	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.95	0.25	U
108-86-1	Bromobenzene	ND	3.8	0.28	U
104-51-8	n-Butylbenzene	ND	1.9	0.32	U
135-98-8	sec-Butylbenzene	ND	1.9	0.28	U
98-06-6	tert-Butylbenzene	ND	3.8	0.22	U
95-49-8	o-Chlorotoluene	ND	3.8	0.36	U
106-43-4	p-Chlorotoluene	ND	3.8	0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.7	1.9	U
87-68-3	Hexachlorobutadiene	ND	7.6	0.32	U
98-82-8	Isopropylbenzene	ND	1.9	0.21	U
99-87-6	p-Isopropyltoluene	ND	1.9	0.21	U
91-20-3	Naphthalene	ND	7.6	1.2	U
107-13-1	Acrylonitrile	ND	7.6	2.2	U
103-65-1	n-Propylbenzene	ND	1.9	0.32	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.8	0.61	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.8	0.52	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.8	0.37	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.8	0.64	U
123-91-1	1,4-Dioxane	ND	150	67.	U
105-05-5	p-Diethylbenzene	ND	3.8	0.34	U
622-96-8	p-Ethyltoluene	ND	3.8	0.73	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.8	0.36	U
60-29-7	Ethyl ether	ND	3.8	0.65	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-05
 Client ID : B-4 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N07
 Sample Amount : 2.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:15
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:31
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	9.5	2.7	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-06
 Client ID : B-4 (11.5-12)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N08
 Sample Amount : 4.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:56
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.4	2.9	U
75-34-3	1,1-Dichloroethane	ND	1.3	0.18	U
67-66-3	Chloroform	ND	1.9	0.18	U
56-23-5	Carbon tetrachloride	ND	1.3	0.29	U
78-87-5	1,2-Dichloropropane	ND	1.3	0.16	U
124-48-1	Dibromochloromethane	ND	1.3	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.3	0.34	U
127-18-4	Tetrachloroethene	ND	0.64	0.25	U
108-90-7	Chlorobenzene	ND	0.64	0.16	U
75-69-4	Trichlorofluoromethane	ND	5.1	0.88	U
107-06-2	1,2-Dichloroethane	ND	1.3	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	0.64	0.21	U
75-27-4	Bromodichloromethane	ND	0.64	0.14	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.35	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.64	0.20	U
542-75-6	1,3-Dichloropropene, Total	ND	0.64	0.20	U
563-58-6	1,1-Dichloropropene	ND	0.64	0.20	U
75-25-2	Bromoform	ND	5.1	0.31	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.64	0.21	U
71-43-2	Benzene	ND	0.64	0.21	U
108-88-3	Toluene	ND	1.3	0.69	U
100-41-4	Ethylbenzene	ND	1.3	0.18	U
74-87-3	Chloromethane	ND	5.1	1.2	U
74-83-9	Bromomethane	ND	2.5	0.74	U
75-01-4	Vinyl chloride	ND	1.3	0.42	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-06
 Client ID : B-4 (11.5-12)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N08
 Sample Amount : 4.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:56
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.5	0.57	U
75-35-4	1,1-Dichloroethene	ND	1.3	0.30	U
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.17	U
79-01-6	Trichloroethene	ND	0.64	0.17	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.18	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.19	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.22	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.26	U
179601-23-1	p/m-Xylene	ND	2.5	0.71	U
95-47-6	o-Xylene	ND	1.3	0.37	U
1330-20-7	Xylenes, Total	ND	1.3	0.37	U
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.22	U
540-59-0	1,2-Dichloroethene, Total	ND	1.3	0.17	U
74-95-3	Dibromomethane	ND	2.5	0.30	U
100-42-5	Styrene	ND	1.3	0.25	U
75-71-8	Dichlorodifluoromethane	ND	13	1.2	U
67-64-1	Acetone	ND	13	6.1	U
75-15-0	Carbon disulfide	ND	13	5.8	U
78-93-3	2-Butanone	ND	13	2.8	U
108-05-4	Vinyl acetate	ND	13	2.7	U
108-10-1	4-Methyl-2-pentanone	ND	13	1.6	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.16	U
591-78-6	2-Hexanone	ND	13	1.5	U
74-97-5	Bromochloromethane	ND	2.5	0.26	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.26	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-06
 Client ID : B-4 (11.5-12)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N08
 Sample Amount : 4.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:56
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.3	0.35	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.21	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.64	0.17	U
108-86-1	Bromobenzene	ND	2.5	0.18	U
104-51-8	n-Butylbenzene	ND	1.3	0.21	U
135-98-8	sec-Butylbenzene	ND	1.3	0.18	U
98-06-6	tert-Butylbenzene	ND	2.5	0.15	U
95-49-8	o-Chlorotoluene	ND	2.5	0.24	U
106-43-4	p-Chlorotoluene	ND	2.5	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	1.3	U
87-68-3	Hexachlorobutadiene	ND	5.1	0.21	U
98-82-8	Isopropylbenzene	ND	1.3	0.14	U
99-87-6	p-Isopropyltoluene	ND	1.3	0.14	U
91-20-3	Naphthalene	ND	5.1	0.82	U
107-13-1	Acrylonitrile	ND	5.1	1.5	U
103-65-1	n-Propylbenzene	ND	1.3	0.22	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.41	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.34	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.24	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.42	U
123-91-1	1,4-Dioxane	ND	100	44.	U
105-05-5	p-Diethylbenzene	ND	2.5	0.22	U
622-96-8	p-Ethyltoluene	ND	2.5	0.49	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.5	0.24	U
60-29-7	Ethyl ether	ND	2.5	0.43	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-06
 Client ID : B-4 (11.5-12)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N08
 Sample Amount : 4.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:20
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 20:56
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.4	1.8	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-07
 Client ID : B-5 (0.5-1)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N09
 Sample Amount : 4.4 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 08:30
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:21
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.0	2.8	U
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	U
67-66-3	Chloroform	ND	1.8	0.17	U
56-23-5	Carbon tetrachloride	ND	1.2	0.28	U
78-87-5	1,2-Dichloropropane	ND	1.2	0.15	U
124-48-1	Dibromochloromethane	ND	1.2	0.17	U
79-00-5	1,1,2-Trichloroethane	ND	1.2	0.32	U
127-18-4	Tetrachloroethene	0.39	0.60	0.24	J
108-90-7	Chlorobenzene	ND	0.60	0.15	U
75-69-4	Trichlorofluoromethane	ND	4.8	0.84	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.31	U
71-55-6	1,1,1-Trichloroethane	ND	0.60	0.20	U
75-27-4	Bromodichloromethane	ND	0.60	0.13	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.33	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.60	0.19	U
542-75-6	1,3-Dichloropropene, Total	ND	0.60	0.19	U
563-58-6	1,1-Dichloropropene	ND	0.60	0.19	U
75-25-2	Bromoform	ND	4.8	0.30	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.60	0.20	U
71-43-2	Benzene	ND	0.60	0.20	U
108-88-3	Toluene	ND	1.2	0.65	U
100-41-4	Ethylbenzene	ND	1.2	0.17	U
74-87-3	Chloromethane	ND	4.8	1.1	U
74-83-9	Bromomethane	ND	2.4	0.70	U
75-01-4	Vinyl chloride	ND	1.2	0.40	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-07
 Client ID : B-5 (0.5-1)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N09
 Sample Amount : 4.4 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 08:30
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:21
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.4	0.54	U
75-35-4	1,1-Dichloroethene	ND	1.2	0.29	U
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.16	U
79-01-6	Trichloroethene	ND	0.60	0.16	U
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.18	U
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.20	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.24	U
179601-23-1	p/m-Xylene	ND	2.4	0.67	U
95-47-6	o-Xylene	ND	1.2	0.35	U
1330-20-7	Xylenes, Total	ND	1.2	0.35	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.21	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.16	U
74-95-3	Dibromomethane	ND	2.4	0.29	U
100-42-5	Styrene	ND	1.2	0.24	U
75-71-8	Dichlorodifluoromethane	ND	12	1.1	U
67-64-1	Acetone	110	12	5.8	
75-15-0	Carbon disulfide	ND	12	5.5	U
78-93-3	2-Butanone	ND	12	2.7	U
108-05-4	Vinyl acetate	ND	12	2.6	U
108-10-1	4-Methyl-2-pentanone	ND	12	1.5	U
96-18-4	1,2,3-Trichloropropane	ND	2.4	0.15	U
591-78-6	2-Hexanone	ND	12	1.4	U
74-97-5	Bromochloromethane	ND	2.4	0.25	U
594-20-7	2,2-Dichloropropane	ND	2.4	0.24	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-07
 Client ID : B-5 (0.5-1)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N09
 Sample Amount : 4.4 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 08:30
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:21
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.2	0.34	U
142-28-9	1,3-Dichloropropane	ND	2.4	0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.60	0.16	U
108-86-1	Bromobenzene	ND	2.4	0.17	U
104-51-8	n-Butylbenzene	ND	1.2	0.20	U
135-98-8	sec-Butylbenzene	ND	1.2	0.18	U
98-06-6	tert-Butylbenzene	ND	2.4	0.14	U
95-49-8	o-Chlorotoluene	ND	2.4	0.23	U
106-43-4	p-Chlorotoluene	ND	2.4	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.6	1.2	U
87-68-3	Hexachlorobutadiene	ND	4.8	0.20	U
98-82-8	Isopropylbenzene	ND	1.2	0.13	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.13	U
91-20-3	Naphthalene	ND	4.8	0.78	U
107-13-1	Acrylonitrile	ND	4.8	1.4	U
103-65-1	n-Propylbenzene	ND	1.2	0.20	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.4	0.39	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.4	0.33	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.23	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.40	U
123-91-1	1,4-Dioxane	ND	96	42.	U
105-05-5	p-Diethylbenzene	ND	2.4	0.21	U
622-96-8	p-Ethyltoluene	ND	2.4	0.46	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.4	0.23	U
60-29-7	Ethyl ether	ND	2.4	0.41	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-07
 Client ID : B-5 (0.5-1)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N09
 Sample Amount : 4.4 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 08:30
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:21
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.0	1.7	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-08
 Client ID : B-7 (9.5-10)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N10
 Sample Amount : 3.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:40
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:46
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	7.3	3.4	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.21	U
67-66-3	Chloroform	ND	2.2	0.20	U
56-23-5	Carbon tetrachloride	ND	1.5	0.34	U
78-87-5	1,2-Dichloropropane	ND	1.5	0.18	U
124-48-1	Dibromochloromethane	ND	1.5	0.20	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.39	U
127-18-4	Tetrachloroethene	0.80	0.73	0.29	
108-90-7	Chlorobenzene	ND	0.73	0.18	U
75-69-4	Trichlorofluoromethane	ND	5.8	1.0	U
107-06-2	1,2-Dichloroethane	ND	1.5	0.38	U
71-55-6	1,1,1-Trichloroethane	ND	0.73	0.24	U
75-27-4	Bromodichloromethane	ND	0.73	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.40	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.23	U
542-75-6	1,3-Dichloropropene, Total	ND	0.73	0.23	U
563-58-6	1,1-Dichloropropene	ND	0.73	0.23	U
75-25-2	Bromoform	ND	5.8	0.36	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.73	0.24	U
71-43-2	Benzene	ND	0.73	0.24	U
108-88-3	Toluene	ND	1.5	0.80	U
100-41-4	Ethylbenzene	ND	1.5	0.21	U
74-87-3	Chloromethane	ND	5.8	1.4	U
74-83-9	Bromomethane	ND	2.9	0.85	U
75-01-4	Vinyl chloride	ND	1.5	0.49	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-08
 Client ID : B-7 (9.5-10)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N10
 Sample Amount : 3.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:40
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:46
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.9	0.66	U
75-35-4	1,1-Dichloroethene	ND	1.5	0.35	U
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.20	U
79-01-6	Trichloroethene	ND	0.73	0.20	U
95-50-1	1,2-Dichlorobenzene	ND	2.9	0.21	U
541-73-1	1,3-Dichlorobenzene	ND	2.9	0.22	U
106-46-7	1,4-Dichlorobenzene	ND	2.9	0.25	U
1634-04-4	Methyl tert butyl ether	ND	2.9	0.29	U
179601-23-1	p/m-Xylene	ND	2.9	0.82	U
95-47-6	o-Xylene	ND	1.5	0.43	U
1330-20-7	Xylenes, Total	ND	1.5	0.43	U
156-59-2	cis-1,2-Dichloroethene	ND	1.5	0.26	U
540-59-0	1,2-Dichloroethene, Total	ND	1.5	0.20	U
74-95-3	Dibromomethane	ND	2.9	0.35	U
100-42-5	Styrene	ND	1.5	0.29	U
75-71-8	Dichlorodifluoromethane	ND	15	1.3	U
67-64-1	Acetone	20	15	7.0	
75-15-0	Carbon disulfide	ND	15	6.7	U
78-93-3	2-Butanone	ND	15	3.2	U
108-05-4	Vinyl acetate	ND	15	3.1	U
108-10-1	4-Methyl-2-pentanone	ND	15	1.9	U
96-18-4	1,2,3-Trichloropropane	ND	2.9	0.18	U
591-78-6	2-Hexanone	ND	15	1.7	U
74-97-5	Bromochloromethane	ND	2.9	0.30	U
594-20-7	2,2-Dichloropropane	ND	2.9	0.30	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-08
 Client ID : B-7 (9.5-10)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N10
 Sample Amount : 3.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:40
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:46
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.5	0.41	U
142-28-9	1,3-Dichloropropane	ND	2.9	0.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.73	0.19	U
108-86-1	Bromobenzene	ND	2.9	0.21	U
104-51-8	n-Butylbenzene	ND	1.5	0.24	U
135-98-8	sec-Butylbenzene	ND	1.5	0.21	U
98-06-6	tert-Butylbenzene	ND	2.9	0.17	U
95-49-8	o-Chlorotoluene	ND	2.9	0.28	U
106-43-4	p-Chlorotoluene	ND	2.9	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.4	1.5	U
87-68-3	Hexachlorobutadiene	ND	5.8	0.25	U
98-82-8	Isopropylbenzene	ND	1.5	0.16	U
99-87-6	p-Isopropyltoluene	ND	1.5	0.16	U
91-20-3	Naphthalene	ND	5.8	0.95	U
107-13-1	Acrylonitrile	ND	5.8	1.7	U
103-65-1	n-Propylbenzene	ND	1.5	0.25	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.9	0.47	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.9	0.40	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.9	0.28	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.9	0.49	U
123-91-1	1,4-Dioxane	ND	120	51.	U
105-05-5	p-Diethylbenzene	ND	2.9	0.26	U
622-96-8	p-Ethyltoluene	ND	2.9	0.56	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.9	0.28	U
60-29-7	Ethyl ether	ND	2.9	0.50	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-08
 Client ID : B-7 (9.5-10)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N10
 Sample Amount : 3.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:40
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 21:46
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	7.3	2.1	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-09
 Client ID : B-7 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N11
 Sample Amount : 5.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:11
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	4.7	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.95	0.14	U
67-66-3	Chloroform	ND	1.4	0.13	U
56-23-5	Carbon tetrachloride	ND	0.95	0.22	U
78-87-5	1,2-Dichloropropane	ND	0.95	0.12	U
124-48-1	Dibromochloromethane	ND	0.95	0.13	U
79-00-5	1,1,2-Trichloroethane	ND	0.95	0.25	U
127-18-4	Tetrachloroethene	ND	0.47	0.19	U
108-90-7	Chlorobenzene	ND	0.47	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.8	0.66	U
107-06-2	1,2-Dichloroethane	ND	0.95	0.24	U
71-55-6	1,1,1-Trichloroethane	ND	0.47	0.16	U
75-27-4	Bromodichloromethane	ND	0.47	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.95	0.26	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.47	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	0.47	0.15	U
563-58-6	1,1-Dichloropropene	ND	0.47	0.15	U
75-25-2	Bromoform	ND	3.8	0.23	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.47	0.16	U
71-43-2	Benzene	ND	0.47	0.16	U
108-88-3	Toluene	ND	0.95	0.52	U
100-41-4	Ethylbenzene	ND	0.95	0.13	U
74-87-3	Chloromethane	ND	3.8	0.88	U
74-83-9	Bromomethane	ND	1.9	0.55	U
75-01-4	Vinyl chloride	ND	0.95	0.32	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-09
 Client ID : B-7 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N11
 Sample Amount : 5.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:11
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	1.9	0.43	U
75-35-4	1,1-Dichloroethene	ND	0.95	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.13	U
79-01-6	Trichloroethene	ND	0.47	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.19	U
179601-23-1	p/m-Xylene	ND	1.9	0.53	U
95-47-6	o-Xylene	ND	0.95	0.28	U
1330-20-7	Xylenes, Total	ND	0.95	0.28	U
156-59-2	cis-1,2-Dichloroethene	ND	0.95	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	0.95	0.13	U
74-95-3	Dibromomethane	ND	1.9	0.23	U
100-42-5	Styrene	ND	0.95	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.5	0.87	U
67-64-1	Acetone	ND	9.5	4.6	U
75-15-0	Carbon disulfide	ND	9.5	4.3	U
78-93-3	2-Butanone	ND	9.5	2.1	U
108-05-4	Vinyl acetate	ND	9.5	2.0	U
108-10-1	4-Methyl-2-pentanone	ND	9.5	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	1.9	0.12	U
591-78-6	2-Hexanone	ND	9.5	1.1	U
74-97-5	Bromochloromethane	ND	1.9	0.19	U
594-20-7	2,2-Dichloropropane	ND	1.9	0.19	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-09
 Client ID : B-7 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N11
 Sample Amount : 5.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:11
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	0.95	0.26	U
142-28-9	1,3-Dichloropropane	ND	1.9	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.47	0.12	U
108-86-1	Bromobenzene	ND	1.9	0.14	U
104-51-8	n-Butylbenzene	ND	0.95	0.16	U
135-98-8	sec-Butylbenzene	ND	0.95	0.14	U
98-06-6	tert-Butylbenzene	ND	1.9	0.11	U
95-49-8	o-Chlorotoluene	ND	1.9	0.18	U
106-43-4	p-Chlorotoluene	ND	1.9	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.95	U
87-68-3	Hexachlorobutadiene	ND	3.8	0.16	U
98-82-8	Isopropylbenzene	ND	0.95	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.95	0.10	U
91-20-3	Naphthalene	ND	3.8	0.62	U
107-13-1	Acrylonitrile	ND	3.8	1.1	U
103-65-1	n-Propylbenzene	ND	0.95	0.16	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.9	0.30	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.26	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	0.32	U
123-91-1	1,4-Dioxane	ND	76	33.	U
105-05-5	p-Diethylbenzene	ND	1.9	0.17	U
622-96-8	p-Ethyltoluene	ND	1.9	0.36	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.9	0.18	U
60-29-7	Ethyl ether	ND	1.9	0.32	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-09
 Client ID : B-7 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N11
 Sample Amount : 5.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:11
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.7	1.3	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-10
 Client ID : B-9 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N12
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:36
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	8.3	3.8	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.24	U
67-66-3	Chloroform	ND	2.5	0.23	U
56-23-5	Carbon tetrachloride	ND	1.6	0.38	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.21	U
124-48-1	Dibromochloromethane	ND	1.6	0.23	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.44	U
127-18-4	Tetrachloroethene	ND	0.83	0.32	U
108-90-7	Chlorobenzene	ND	0.83	0.21	U
75-69-4	Trichlorofluoromethane	ND	6.6	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.42	U
71-55-6	1,1,1-Trichloroethane	ND	0.83	0.28	U
75-27-4	Bromodichloromethane	ND	0.83	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.45	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.26	U
542-75-6	1,3-Dichloropropene, Total	ND	0.83	0.26	U
563-58-6	1,1-Dichloropropene	ND	0.83	0.26	U
75-25-2	Bromoform	ND	6.6	0.41	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.83	0.27	U
71-43-2	Benzene	ND	0.83	0.27	U
108-88-3	Toluene	ND	1.6	0.90	U
100-41-4	Ethylbenzene	ND	1.6	0.23	U
74-87-3	Chloromethane	ND	6.6	1.5	U
74-83-9	Bromomethane	ND	3.3	0.96	U
75-01-4	Vinyl chloride	ND	1.6	0.55	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-10
 Client ID : B-9 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N12
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:36
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.3	0.75	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.39	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.23	U
79-01-6	Trichloroethene	ND	0.83	0.23	U
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.24	U
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.3	0.28	U
1634-04-4	Methyl tert butyl ether	ND	3.3	0.33	U
179601-23-1	p/m-Xylene	ND	3.3	0.93	U
95-47-6	o-Xylene	ND	1.6	0.48	U
1330-20-7	Xylenes, Total	ND	1.6	0.48	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.29	U
540-59-0	1,2-Dichloroethene, Total	ND	1.6	0.23	U
74-95-3	Dibromomethane	ND	3.3	0.39	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	8.0	U
75-15-0	Carbon disulfide	ND	16	7.5	U
78-93-3	2-Butanone	ND	16	3.7	U
108-05-4	Vinyl acetate	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.1	U
96-18-4	1,2,3-Trichloropropane	ND	3.3	0.21	U
591-78-6	2-Hexanone	ND	16	2.0	U
74-97-5	Bromochloromethane	ND	3.3	0.34	U
594-20-7	2,2-Dichloropropane	ND	3.3	0.33	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-10
 Client ID : B-9 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N12
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:36
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.6	0.46	U
142-28-9	1,3-Dichloropropane	ND	3.3	0.28	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.83	0.22	U
108-86-1	Bromobenzene	ND	3.3	0.24	U
104-51-8	n-Butylbenzene	ND	1.6	0.28	U
135-98-8	sec-Butylbenzene	ND	1.6	0.24	U
98-06-6	tert-Butylbenzene	ND	3.3	0.20	U
95-49-8	o-Chlorotoluene	ND	3.3	0.32	U
106-43-4	p-Chlorotoluene	ND	3.3	0.18	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.6	U
87-68-3	Hexachlorobutadiene	ND	6.6	0.28	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
99-87-6	p-Isopropyltoluene	ND	1.6	0.18	U
91-20-3	Naphthalene	ND	6.6	1.1	U
107-13-1	Acrylonitrile	ND	6.6	1.9	U
103-65-1	n-Propylbenzene	ND	1.6	0.28	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.3	0.53	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.45	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.3	0.32	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.3	0.55	U
123-91-1	1,4-Dioxane	ND	130	58.	U
105-05-5	p-Diethylbenzene	ND	3.3	0.29	U
622-96-8	p-Ethyltoluene	ND	3.3	0.64	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.3	0.32	U
60-29-7	Ethyl ether	ND	3.3	0.56	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-10
 Client ID : B-9 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N12
 Sample Amount : 3.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:45
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 22:36
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 92
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	8.3	2.3	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-11
 Client ID : B-9 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N13
 Sample Amount : 2.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:50
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:02
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	5.2	U
75-34-3	1,1-Dichloroethane	ND	2.2	0.33	U
67-66-3	Chloroform	ND	3.4	0.32	U
56-23-5	Carbon tetrachloride	ND	2.2	0.52	U
78-87-5	1,2-Dichloropropane	ND	2.2	0.28	U
124-48-1	Dibromochloromethane	ND	2.2	0.32	U
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.60	U
127-18-4	Tetrachloroethene	ND	1.1	0.44	U
108-90-7	Chlorobenzene	ND	1.1	0.29	U
75-69-4	Trichlorofluoromethane	ND	9.0	1.6	U
107-06-2	1,2-Dichloroethane	ND	2.2	0.58	U
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.38	U
75-27-4	Bromodichloromethane	ND	1.1	0.24	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.62	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.36	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.36	U
563-58-6	1,1-Dichloropropene	ND	1.1	0.36	U
75-25-2	Bromoform	ND	9.0	0.55	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.37	U
71-43-2	Benzene	ND	1.1	0.37	U
108-88-3	Toluene	ND	2.2	1.2	U
100-41-4	Ethylbenzene	ND	2.2	0.32	U
74-87-3	Chloromethane	ND	9.0	2.1	U
74-83-9	Bromomethane	ND	4.5	1.3	U
75-01-4	Vinyl chloride	ND	2.2	0.76	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-11
 Client ID : B-9 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N13
 Sample Amount : 2.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:50
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:02
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	4.5	1.0	U
75-35-4	1,1-Dichloroethene	ND	2.2	0.54	U
156-60-5	trans-1,2-Dichloroethene	ND	3.4	0.31	U
79-01-6	Trichloroethene	ND	1.1	0.31	U
95-50-1	1,2-Dichlorobenzene	ND	4.5	0.32	U
541-73-1	1,3-Dichlorobenzene	ND	4.5	0.33	U
106-46-7	1,4-Dichlorobenzene	ND	4.5	0.38	U
1634-04-4	Methyl tert butyl ether	ND	4.5	0.45	U
179601-23-1	p/m-Xylene	ND	4.5	1.3	U
95-47-6	o-Xylene	ND	2.2	0.66	U
1330-20-7	Xylenes, Total	ND	2.2	0.66	U
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.39	U
540-59-0	1,2-Dichloroethene, Total	ND	2.2	0.31	U
74-95-3	Dibromomethane	ND	4.5	0.54	U
100-42-5	Styrene	ND	2.2	0.44	U
75-71-8	Dichlorodifluoromethane	ND	22	2.1	U
67-64-1	Acetone	ND	22	11.	U
75-15-0	Carbon disulfide	ND	22	10.	U
78-93-3	2-Butanone	ND	22	5.0	U
108-05-4	Vinyl acetate	ND	22	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	22	2.9	U
96-18-4	1,2,3-Trichloropropane	ND	4.5	0.29	U
591-78-6	2-Hexanone	ND	22	2.7	U
74-97-5	Bromochloromethane	ND	4.5	0.46	U
594-20-7	2,2-Dichloropropane	ND	4.5	0.46	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-11
 Client ID : B-9 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N13
 Sample Amount : 2.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:50
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:02
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.2	0.63	U
142-28-9	1,3-Dichloropropane	ND	4.5	0.38	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.30	U
108-86-1	Bromobenzene	ND	4.5	0.33	U
104-51-8	n-Butylbenzene	ND	2.2	0.38	U
135-98-8	sec-Butylbenzene	ND	2.2	0.33	U
98-06-6	tert-Butylbenzene	ND	4.5	0.27	U
95-49-8	o-Chlorotoluene	ND	4.5	0.43	U
106-43-4	p-Chlorotoluene	ND	4.5	0.24	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.8	2.2	U
87-68-3	Hexachlorobutadiene	ND	9.0	0.38	U
98-82-8	Isopropylbenzene	ND	2.2	0.24	U
99-87-6	p-Isopropyltoluene	ND	2.2	0.24	U
91-20-3	Naphthalene	ND	9.0	1.5	U
107-13-1	Acrylonitrile	ND	9.0	2.6	U
103-65-1	n-Propylbenzene	ND	2.2	0.38	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.73	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.61	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.5	0.44	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.5	0.75	U
123-91-1	1,4-Dioxane	ND	180	79.	U
105-05-5	p-Diethylbenzene	ND	4.5	0.40	U
622-96-8	p-Ethyltoluene	ND	4.5	0.87	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.5	0.43	U
60-29-7	Ethyl ether	ND	4.5	0.77	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-11
 Client ID : B-9 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N13
 Sample Amount : 2.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:50
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:02
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	11	3.2	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-12
 Client ID : DUP
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N14
 Sample Amount : 2.1 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:27
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	5.7	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.36	U
67-66-3	Chloroform	ND	3.7	0.35	U
56-23-5	Carbon tetrachloride	ND	2.5	0.57	U
78-87-5	1,2-Dichloropropane	ND	2.5	0.31	U
124-48-1	Dibromochloromethane	ND	2.5	0.35	U
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.66	U
127-18-4	Tetrachloroethene	ND	1.2	0.48	U
108-90-7	Chlorobenzene	ND	1.2	0.31	U
75-69-4	Trichlorofluoromethane	ND	9.9	1.7	U
107-06-2	1,2-Dichloroethane	ND	2.5	0.64	U
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.41	U
75-27-4	Bromodichloromethane	ND	1.2	0.27	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.68	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.39	U
542-75-6	1,3-Dichloropropene, Total	ND	1.2	0.39	U
563-58-6	1,1-Dichloropropene	ND	1.2	0.39	U
75-25-2	Bromoform	ND	9.9	0.61	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.41	U
71-43-2	Benzene	ND	1.2	0.41	U
108-88-3	Toluene	ND	2.5	1.3	U
100-41-4	Ethylbenzene	ND	2.5	0.35	U
74-87-3	Chloromethane	ND	9.9	2.3	U
74-83-9	Bromomethane	ND	5.0	1.4	U
75-01-4	Vinyl chloride	ND	2.5	0.83	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-12
 Client ID : DUP
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N14
 Sample Amount : 2.1 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:27
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	5.0	1.1	U
75-35-4	1,1-Dichloroethene	ND	2.5	0.59	U
156-60-5	trans-1,2-Dichloroethene	ND	3.7	0.34	U
79-01-6	Trichloroethene	ND	1.2	0.34	U
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.36	U
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.37	U
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.42	U
1634-04-4	Methyl tert butyl ether	ND	5.0	0.50	U
179601-23-1	p/m-Xylene	ND	5.0	1.4	U
95-47-6	o-Xylene	ND	2.5	0.72	U
1330-20-7	Xylenes, Total	ND	2.5	0.72	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.43	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.34	U
74-95-3	Dibromomethane	ND	5.0	0.59	U
100-42-5	Styrene	ND	2.5	0.48	U
75-71-8	Dichlorodifluoromethane	ND	25	2.3	U
67-64-1	Acetone	ND	25	12.	U
75-15-0	Carbon disulfide	ND	25	11.	U
78-93-3	2-Butanone	ND	25	5.5	U
108-05-4	Vinyl acetate	ND	25	5.3	U
108-10-1	4-Methyl-2-pentanone	ND	25	3.2	U
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.31	U
591-78-6	2-Hexanone	ND	25	2.9	U
74-97-5	Bromochloromethane	ND	5.0	0.51	U
594-20-7	2,2-Dichloropropane	ND	5.0	0.50	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-12
 Client ID : DUP
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N14
 Sample Amount : 2.1 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:27
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	2.5	0.69	U
142-28-9	1,3-Dichloropropane	ND	5.0	0.41	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	0.33	U
108-86-1	Bromobenzene	ND	5.0	0.36	U
104-51-8	n-Butylbenzene	ND	2.5	0.41	U
135-98-8	sec-Butylbenzene	ND	2.5	0.36	U
98-06-6	tert-Butylbenzene	ND	5.0	0.29	U
95-49-8	o-Chlorotoluene	ND	5.0	0.47	U
106-43-4	p-Chlorotoluene	ND	5.0	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.4	2.5	U
87-68-3	Hexachlorobutadiene	ND	9.9	0.42	U
98-82-8	Isopropylbenzene	ND	2.5	0.27	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.27	U
91-20-3	Naphthalene	ND	9.9	1.6	U
107-13-1	Acrylonitrile	ND	9.9	2.8	U
103-65-1	n-Propylbenzene	ND	2.5	0.42	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.80	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.67	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.48	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.83	U
123-91-1	1,4-Dioxane	ND	200	87.	U
105-05-5	p-Diethylbenzene	ND	5.0	0.44	U
622-96-8	p-Ethyltoluene	ND	5.0	0.95	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	5.0	0.47	U
60-29-7	Ethyl ether	ND	5.0	0.84	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-12
 Client ID : DUP
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N14
 Sample Amount : 2.1 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:27
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 94
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	12	3.5	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-13
 Client ID : FIELD BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:25
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:50
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-13
 Client ID : FIELD BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:25
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:50
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-13
 Client ID : FIELD BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:25
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:50
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-13
 Client ID : FIELD BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:25
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 14:50
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-14
 Client ID : TRIP BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/26/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:11
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-14
 Client ID : TRIP BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/26/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:11
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-14
 Client ID : TRIP BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/26/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:11
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-14
 Client ID : TRIP BLANK
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/26/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 15:11
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-15
 Client ID : B-8 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N15
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 13:55
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:52
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	8.5	3.9	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.25	U
67-66-3	Chloroform	ND	2.6	0.24	U
56-23-5	Carbon tetrachloride	ND	1.7	0.39	U
78-87-5	1,2-Dichloropropane	ND	1.7	0.21	U
124-48-1	Dibromochloromethane	ND	1.7	0.24	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.46	U
127-18-4	Tetrachloroethene	ND	0.85	0.33	U
108-90-7	Chlorobenzene	ND	0.85	0.22	U
75-69-4	Trichlorofluoromethane	ND	6.8	1.2	U
107-06-2	1,2-Dichloroethane	ND	1.7	0.44	U
71-55-6	1,1,1-Trichloroethane	ND	0.85	0.28	U
75-27-4	Bromodichloromethane	ND	0.85	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.47	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.27	U
542-75-6	1,3-Dichloropropene, Total	ND	0.85	0.27	U
563-58-6	1,1-Dichloropropene	ND	0.85	0.27	U
75-25-2	Bromoform	ND	6.8	0.42	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.85	0.28	U
71-43-2	Benzene	ND	0.85	0.28	U
108-88-3	Toluene	ND	1.7	0.93	U
100-41-4	Ethylbenzene	ND	1.7	0.24	U
74-87-3	Chloromethane	ND	6.8	1.6	U
74-83-9	Bromomethane	ND	3.4	0.99	U
75-01-4	Vinyl chloride	ND	1.7	0.57	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-15
 Client ID : B-8 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N15
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 13:55
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:52
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	3.4	0.77	U
75-35-4	1,1-Dichloroethene	ND	1.7	0.41	U
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.23	U
79-01-6	Trichloroethene	ND	0.85	0.23	U
95-50-1	1,2-Dichlorobenzene	ND	3.4	0.25	U
541-73-1	1,3-Dichlorobenzene	ND	3.4	0.25	U
106-46-7	1,4-Dichlorobenzene	ND	3.4	0.29	U
1634-04-4	Methyl tert butyl ether	ND	3.4	0.34	U
179601-23-1	p/m-Xylene	ND	3.4	0.96	U
95-47-6	o-Xylene	ND	1.7	0.50	U
1330-20-7	Xylenes, Total	ND	1.7	0.50	U
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.30	U
540-59-0	1,2-Dichloroethene, Total	ND	1.7	0.23	U
74-95-3	Dibromomethane	ND	3.4	0.41	U
100-42-5	Styrene	ND	1.7	0.33	U
75-71-8	Dichlorodifluoromethane	ND	17	1.6	U
67-64-1	Acetone	ND	17	8.2	U
75-15-0	Carbon disulfide	ND	17	7.8	U
78-93-3	2-Butanone	ND	17	3.8	U
108-05-4	Vinyl acetate	ND	17	3.7	U
108-10-1	4-Methyl-2-pentanone	ND	17	2.2	U
96-18-4	1,2,3-Trichloropropane	ND	3.4	0.22	U
591-78-6	2-Hexanone	ND	17	2.0	U
74-97-5	Bromochloromethane	ND	3.4	0.35	U
594-20-7	2,2-Dichloropropane	ND	3.4	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-15
 Client ID : B-8 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N15
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 13:55
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:52
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.7	0.48	U
142-28-9	1,3-Dichloropropane	ND	3.4	0.28	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.85	0.22	U
108-86-1	Bromobenzene	ND	3.4	0.25	U
104-51-8	n-Butylbenzene	ND	1.7	0.28	U
135-98-8	sec-Butylbenzene	ND	1.7	0.25	U
98-06-6	tert-Butylbenzene	ND	3.4	0.20	U
95-49-8	o-Chlorotoluene	ND	3.4	0.33	U
106-43-4	p-Chlorotoluene	ND	3.4	0.18	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	1.7	U
87-68-3	Hexachlorobutadiene	ND	6.8	0.29	U
98-82-8	Isopropylbenzene	ND	1.7	0.19	U
99-87-6	p-Isopropyltoluene	ND	1.7	0.19	U
91-20-3	Naphthalene	ND	6.8	1.1	U
107-13-1	Acrylonitrile	ND	6.8	2.0	U
103-65-1	n-Propylbenzene	ND	1.7	0.29	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.4	0.55	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.4	0.46	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.4	0.33	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.4	0.57	U
123-91-1	1,4-Dioxane	ND	140	60.	U
105-05-5	p-Diethylbenzene	ND	3.4	0.30	U
622-96-8	p-Ethyltoluene	ND	3.4	0.66	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.4	0.33	U
60-29-7	Ethyl ether	ND	3.4	0.58	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-15
 Client ID : B-8 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N15
 Sample Amount : 3.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 13:55
 Date Received : 10/29/21
 Date Analyzed : 11/04/21 23:52
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	8.5	2.4	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-16
 Client ID : B-8 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N16
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 14:00
 Date Received : 10/29/21
 Date Analyzed : 11/05/21 00:17
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 85
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	4.9	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.98	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	0.98	0.22	U
78-87-5	1,2-Dichloropropane	ND	0.98	0.12	U
124-48-1	Dibromochloromethane	ND	0.98	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.98	0.26	U
127-18-4	Tetrachloroethene	ND	0.49	0.19	U
108-90-7	Chlorobenzene	ND	0.49	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.9	0.68	U
107-06-2	1,2-Dichloroethane	ND	0.98	0.25	U
71-55-6	1,1,1-Trichloroethane	ND	0.49	0.16	U
75-27-4	Bromodichloromethane	ND	0.49	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.49	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.49	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.49	0.16	U
75-25-2	Bromoform	ND	3.9	0.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.49	0.16	U
71-43-2	Benzene	ND	0.49	0.16	U
108-88-3	Toluene	ND	0.98	0.53	U
100-41-4	Ethylbenzene	ND	0.98	0.14	U
74-87-3	Chloromethane	ND	3.9	0.92	U
74-83-9	Bromomethane	ND	2.0	0.57	U
75-01-4	Vinyl chloride	ND	0.98	0.33	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-16
 Client ID : B-8 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N16
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 14:00
 Date Received : 10/29/21
 Date Analyzed : 11/05/21 00:17
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 85
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.44	U
75-35-4	1,1-Dichloroethene	ND	0.98	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.13	U
79-01-6	Trichloroethene	ND	0.49	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.55	U
95-47-6	o-Xylene	ND	0.98	0.28	U
1330-20-7	Xylenes, Total	ND	0.98	0.28	U
156-59-2	cis-1,2-Dichloroethene	ND	0.98	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	0.98	0.13	U
74-95-3	Dibromomethane	ND	2.0	0.23	U
100-42-5	Styrene	ND	0.98	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.8	0.90	U
67-64-1	Acetone	ND	9.8	4.7	U
75-15-0	Carbon disulfide	ND	9.8	4.5	U
78-93-3	2-Butanone	ND	9.8	2.2	U
108-05-4	Vinyl acetate	ND	9.8	2.1	U
108-10-1	4-Methyl-2-pentanone	ND	9.8	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.12	U
591-78-6	2-Hexanone	ND	9.8	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-16
 Client ID : B-8 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N16
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 14:00
 Date Received : 10/29/21
 Date Analyzed : 11/05/21 00:17
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 85
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	0.98	0.27	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.49	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	0.98	0.16	U
135-98-8	sec-Butylbenzene	ND	0.98	0.14	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	0.98	U
87-68-3	Hexachlorobutadiene	ND	3.9	0.16	U
98-82-8	Isopropylbenzene	ND	0.98	0.11	U
99-87-6	p-Isopropyltoluene	ND	0.98	0.11	U
91-20-3	Naphthalene	ND	3.9	0.64	U
107-13-1	Acrylonitrile	ND	3.9	1.1	U
103-65-1	n-Propylbenzene	ND	0.98	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	78	34.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.17	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.33	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-16
 Client ID : B-8 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N16
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 14:00
 Date Received : 10/29/21
 Date Analyzed : 11/05/21 00:17
 Dilution Factor : 1
 Analyst : NLK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : 85
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.9	1.4	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567116-5
 Client ID : WG1567116-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:21
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567116-5
 Client ID : WG1567116-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:21
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567116-5
 Client ID : WG1567116-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:21
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	0.36	2.0	0.32	J
120-82-1	1,2,4-Trichlorobenzene	0.28	2.0	0.27	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567116-5
 Client ID : WG1567116-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104A05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:21
 Dilution Factor : 1
 Analyst : MV
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567182-5
 Client ID : WG1567182-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567182-5
 Client ID : WG1567182-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567182-5
 Client ID : WG1567182-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567182-5
 Client ID : WG1567182-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08211104A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 08:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567587-5
 Client ID : WG1567587-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 19:40
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567587-5
 Client ID : WG1567587-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 19:40
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567587-5
 Client ID : WG1567587-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 19:40
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	0.38	2.0	0.32	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U



Results Summary

Form 1

Volatile Organics by EPA 5035

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1567587-5
 Client ID : WG1567587-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : V04211104N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2159682
 Project Number : 48122
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/04/21 19:40
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA104
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A24.d
 Acq On : 4 Nov 2021 2:50 pm
 Operator : VOA108:LAC
 Sample : L2159682-13,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 04 19:21:16 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	278923	10.000	ug/L	0.00
Standard Area 1 = 317596			Recovery =	87.82%		
59) Chlorobenzene-d5	8.310	117	218010	10.000	ug/L	0.00
Standard Area 1 = 234349			Recovery =	93.03%		
79) 1,4-Dichlorobenzene-d4	9.820	152	108352	10.000	ug/L	0.00
Standard Area 1 = 124409			Recovery =	87.09%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	78327	10.203	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.03%		
43) 1,2-Dichloroethane-d4	4.844	65	81029	10.339	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.39%		
60) Toluene-d8	6.941	98	256971	9.266	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.66%		
83) 4-Bromofluorobenzene	9.149	95	94170	9.478	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.78%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.001	50	547	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.242	94	728	0.198	ug/L	97
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	1.740	76	202	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	3.203	43	47	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A24.d
 Acq On : 4 Nov 2021 2:50 pm
 Operator : VOA108:LAC
 Sample : L2159682-13,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 04 19:21:16 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	6.999	92	219		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.305	43	155		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.362	91	403		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.488	106	199		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	9.254	91	117		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.322	105	229		N.D.	
89) 2-Chlorotoluene	9.254	91	117		N.D.	
90) 1,3,5-Trimethylbenzene	9.369	105	130		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.432	91	49		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A24.d
 Acq On : 4 Nov 2021 2:50 pm
 Operator : VOA108:LAC
 Sample : L2159682-13,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 04 19:21:16 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.615	105	268		N.D.	
98)	sec-Butylbenzene	9.615	105	268		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	9.825	146	139		N.D.	
101)	1,4-Dichlorobenzene	9.825	146	139		N.D.	
102)	p-Diethylbenzene	9.967	119	51		N.D.	
103)	n-Butylbenzene	9.998	91	47		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	10.423	119	131		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

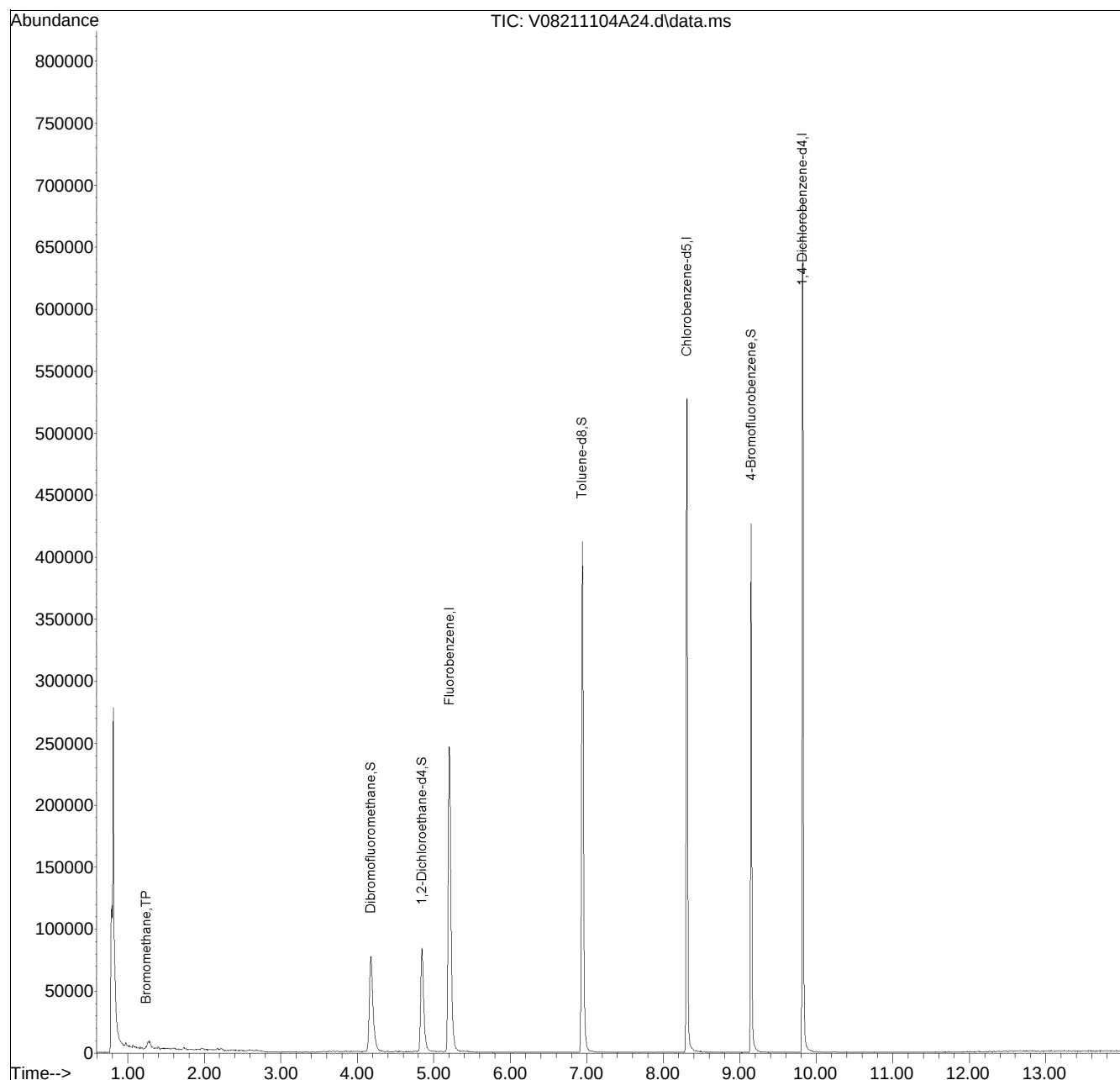
(#) = qualifier out of range (m) = manual integration (+) = signals summed

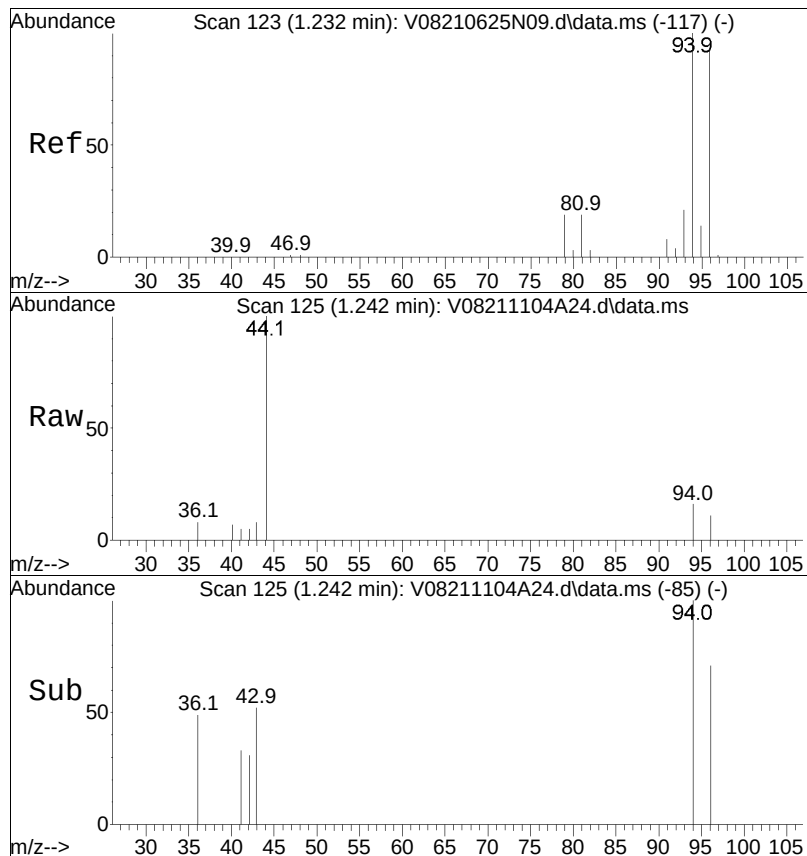
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A24.d
 Acq On : 4 Nov 2021 2:50 pm
 Operator : VOA108:LAC
 Sample : L2159682-13,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 04 19:21:16 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

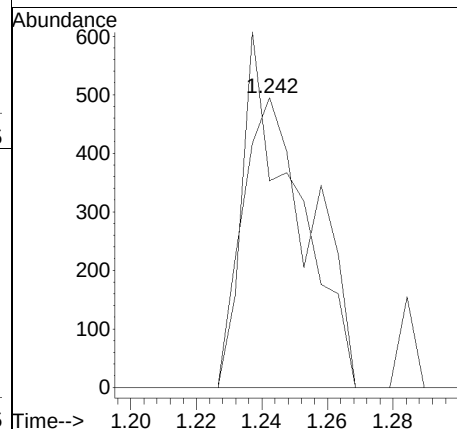
Sub List : 8260-NYTCL - Megamix plus Diox11104A\V08211104A01.d•





#5
 Bromomethane
 Concen: 0.20 ug/L
 RT: 1.242 min Scan# 125
 Delta R.T. 0.010 min
 Lab File: V08211104A24.d
 Acq: 4 Nov 2021 2:50 pm

Tgt Ion	Ratio	Lower	Upper
94	100		
96	92.4	75.6	115.6



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A24.d Operator : VOA108:LAC
Date Inj'd : 11/4/2021 2:50 pm Instrument : VOA 108
Sample : L2159682-13,31,10,10,,A,PRQuant Date : 11/4/2021 7:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A25.d
 Acq On : 4 Nov 2021 3:11 pm
 Operator : VOA108:LAC
 Sample : L2159682-14,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 04 19:22:36 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.201	96	280003	10.000	ug/L	-0.01
Standard Area 1 = 317596			Recovery =	88.16%		
59) Chlorobenzene-d5	8.310	117	215392	10.000	ug/L	0.00
Standard Area 1 = 234349			Recovery =	91.91%		
79) 1,4-Dichlorobenzene-d4	9.820	152	109633	10.000	ug/L	0.00
Standard Area 1 = 124409			Recovery =	88.12%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	79950	10.374	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.74%		
43) 1,2-Dichloroethane-d4	4.849	65	82484	10.484	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.84%		
60) Toluene-d8	6.941	98	257487	9.397	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.97%		
83) 4-Bromofluorobenzene	9.149	95	92654	9.217	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.17%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.001	50	325	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.237	94	260	0.070	ug/L #	37
6) Chloroethane	1.268	64	63	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	1.730	76	244	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	2.233	43	1213M4	1.078	ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	3.198	43	47	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A25.d
 Acq On : 4 Nov 2021 3:11 pm
 Operator : VOA108:LAC
 Sample : L2159682-14,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 04 19:22:36 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	4.419	43	60		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	4.655	78	81		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.295	95	51		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	6.999	92	260		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	d
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.362	91	76		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.488	106	218		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.149	105	51		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	9.154	91	372		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.322	105	203		N.D.	
89) 2-Chlorotoluene	9.154	91	371		N.D.	
90) 1,3,5-Trimethylbenzene	9.374	105	52		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.558	91	57		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A25.d
 Acq On : 4 Nov 2021 3:11 pm
 Operator : VOA108:LAC
 Sample : L2159682-14,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 04 19:22:36 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.600	105	49		N.D.	
98)	sec-Butylbenzene	9.610	105	104		N.D.	
99)	p-Isopropyltoluene	9.752	119	50		N.D.	
100)	1,3-Dichlorobenzene	9.825	146	291		N.D.	
101)	1,4-Dichlorobenzene	9.825	146	291		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	9.825	91	294		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	11.094	128	49		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

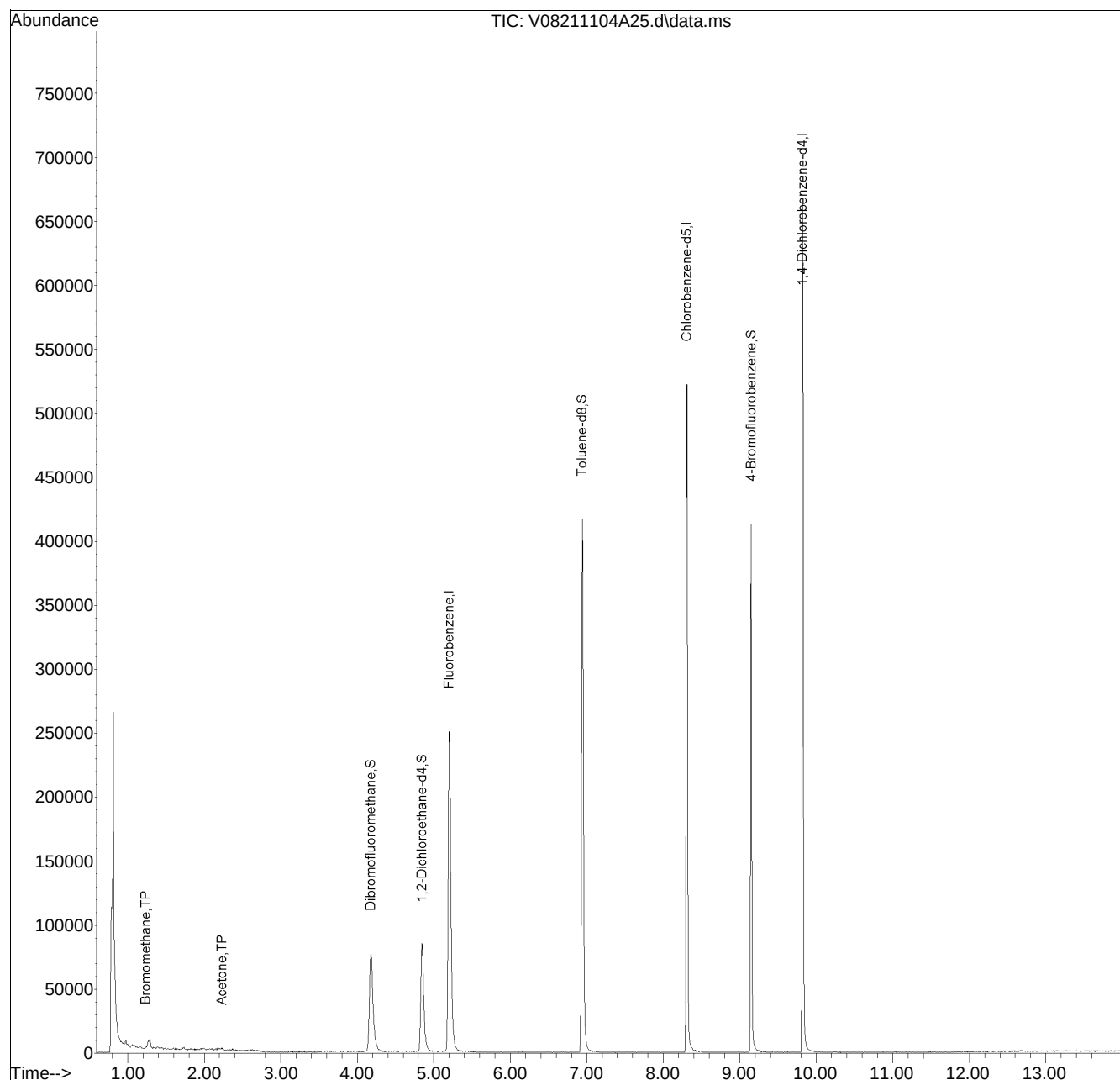
(#) = qualifier out of range (m) = manual integration (+) = signals summed

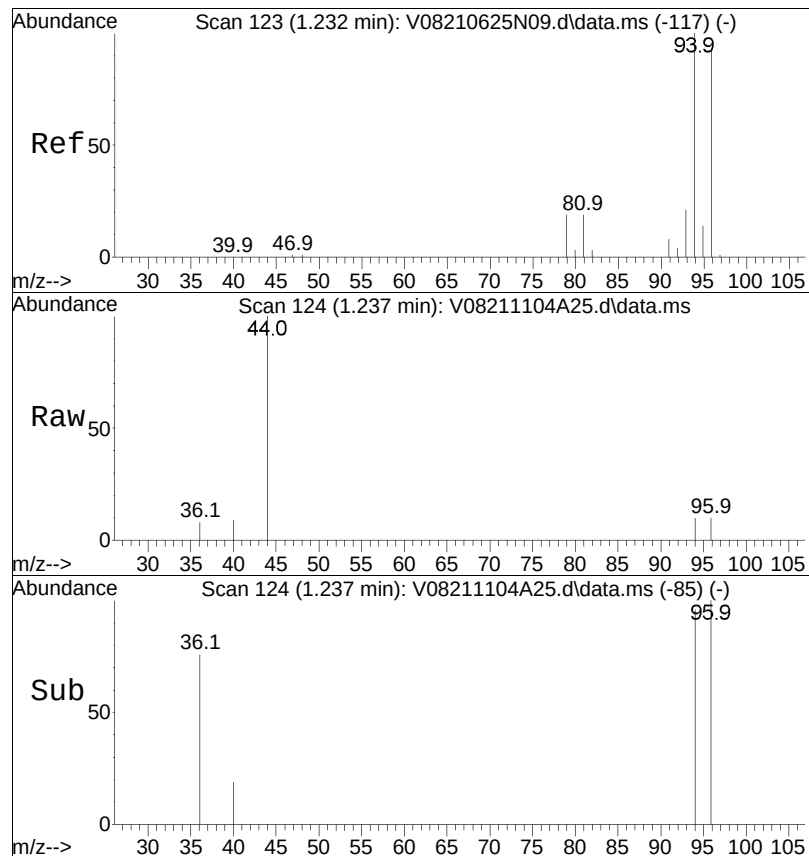
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A25.d
 Acq On : 4 Nov 2021 3:11 pm
 Operator : VOA108:LAC
 Sample : L2159682-14,31,10,10,,A,PRI
 Misc : WG1567182,ICAL18356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 04 19:22:36 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

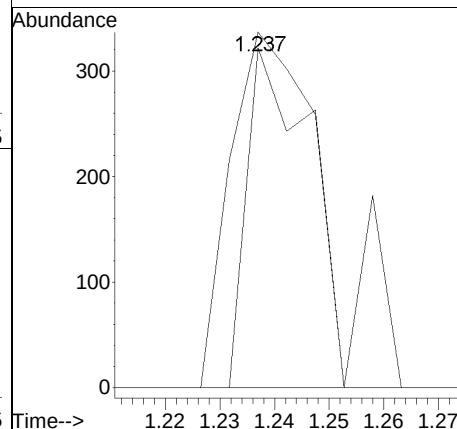
Sub List : 8260-NYTCL - Megamix plus Diox11104A\V08211104A01.d•

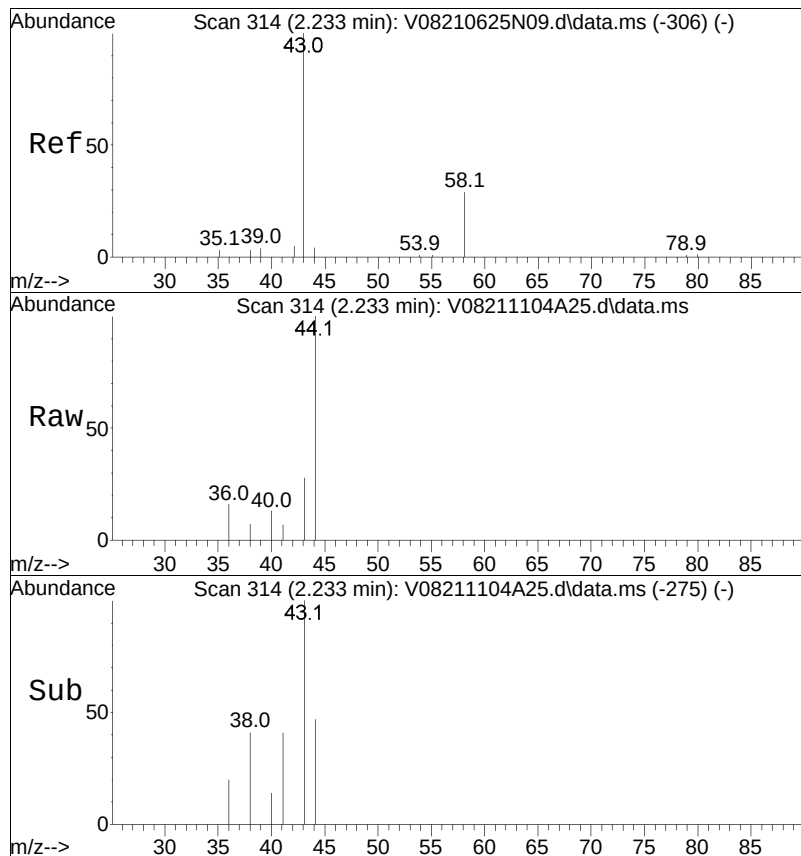




#5
 Bromomethane
 Concen: 0.07 ug/L
 RT: 1.237 min Scan# 124
 Delta R.T. 0.005 min
 Lab File: V08211104A25.d
 Acq: 4 Nov 2021 3:11 pm

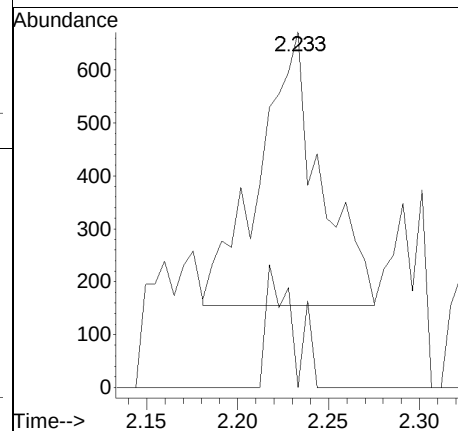
Tgt Ion	94	Resp	260
Ion Ratio	Lower	Upper	
94	100		
96	156.9	75.6	115.6#





#17
 Acetone
 Concen: 1.08 ug/L M4
 RT: 2.233 min Scan# 314
 Delta R.T. 0.005 min
 Lab File: V08211104A25.d
 Acq: 4 Nov 2021 3:11 pm

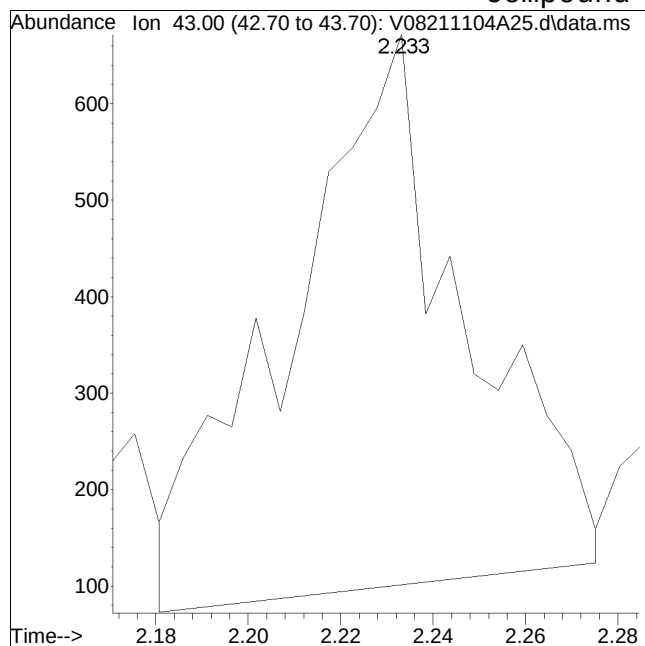
Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.0	24.2	36.4#



Manual Integration Report

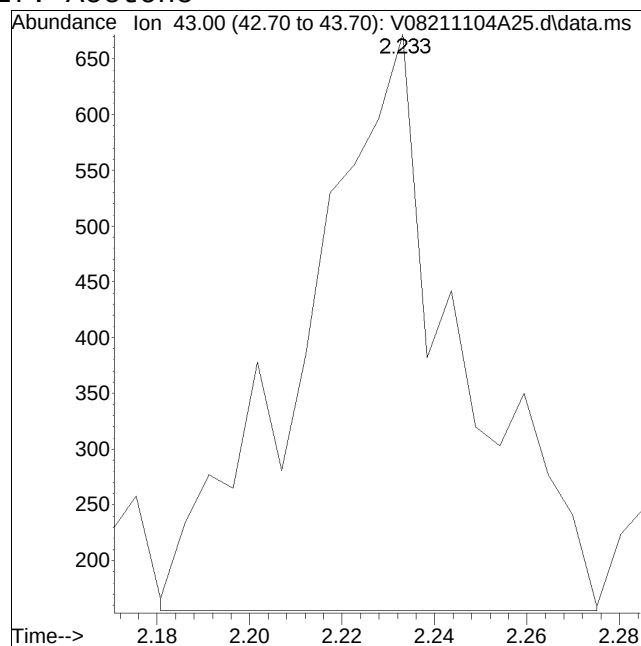
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A25.d Operator : VOA108:LAC
Date Inj'd : 11/4/2021 3:11 pm Instrument : VOA 108
Sample : L2159682-14,31,10,10,,A,PRQuant Date : 11/4/2021 7:21 pm

Compound #17: Acetone



Original Peak Response = 1533

M4 = Poor automated baseline construction.



Manual Peak Response = 1213 M4

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 2:40 pm
 Operator : VOA104:MV
 Sample : L2159682-01,31,2.71,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 16:15:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	215132	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery =	81.78%		
59) Chlorobenzene-d5	9.063	117	186186	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery =	99.39%		
79) 1,4-Dichlorobenzene-d4	11.857	152	107340	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery =	104.56%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	70399	21.483	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.41%		
43) 1,2-Dichloroethane-d4	5.309	65	62971	20.271	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.35%		
60) Toluene-d8	7.238	98	229943	19.614	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.07%		
83) 4-Bromofluorobenzene	10.604	95	86192	17.338	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	86.69%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.680	50	106	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.016	94	159	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1699	0.176	ug/L #	73
15) Methylene chloride	3.190	84	1445	Below Cal		74
17) Acetone	3.243	43	3395	3.047	ug/L #	78
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.648	83	348	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 2:40 pm
 Operator : VOA104:MV
 Sample : L2159682-01,31,2.71,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 16:15:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.296	92	301		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	143		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.609	91	154		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A20.D
 Acq On : 4 Nov 2021 2:40 pm
 Operator : VOA104:MV
 Sample : L2159682-01,31,2.71,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 16:15:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.064	128	112		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

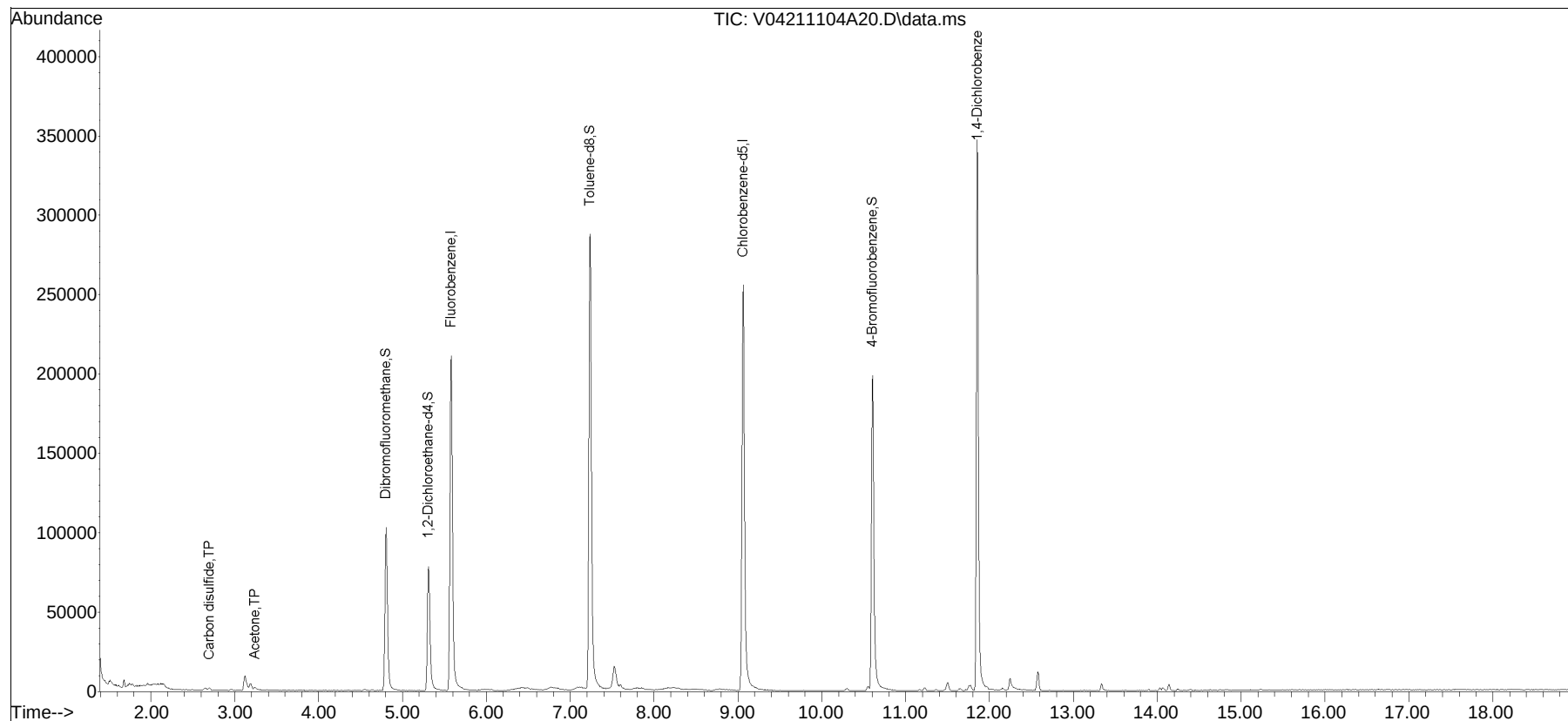
(#) = qualifier out of range (m) = manual integration (+) = signals summed

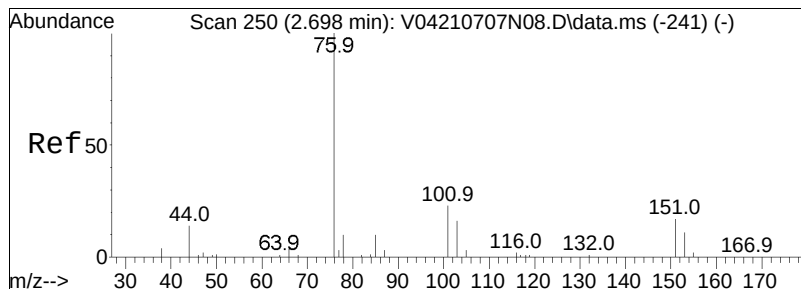
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A20.D
 Acq On : 4 Nov 2021 2:40 pm
 Operator : VOA104:MV
 Sample : L2159682-01,31,2.71,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 16:15:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

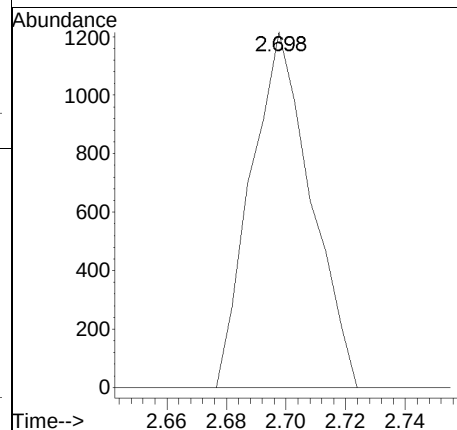
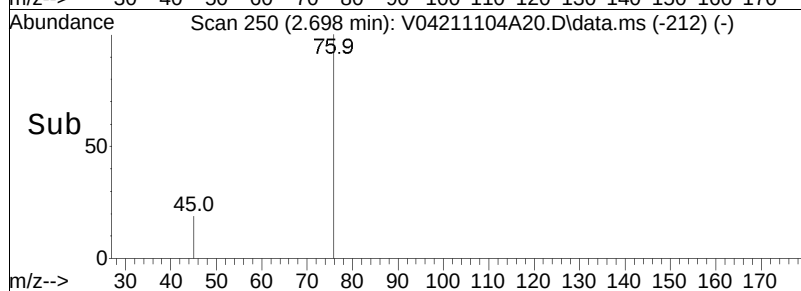
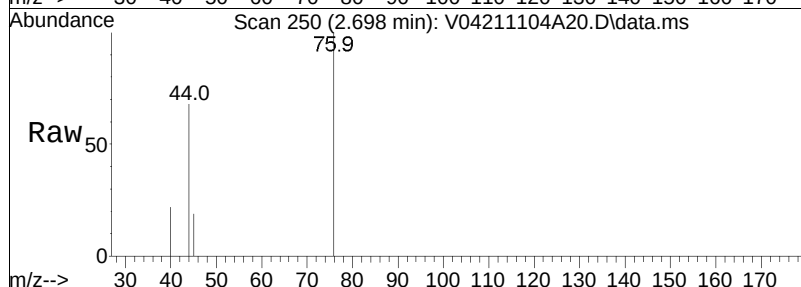
Sub List : 8260-NYTCL - Megamix plus Diox11104A\V04211104A02.D•

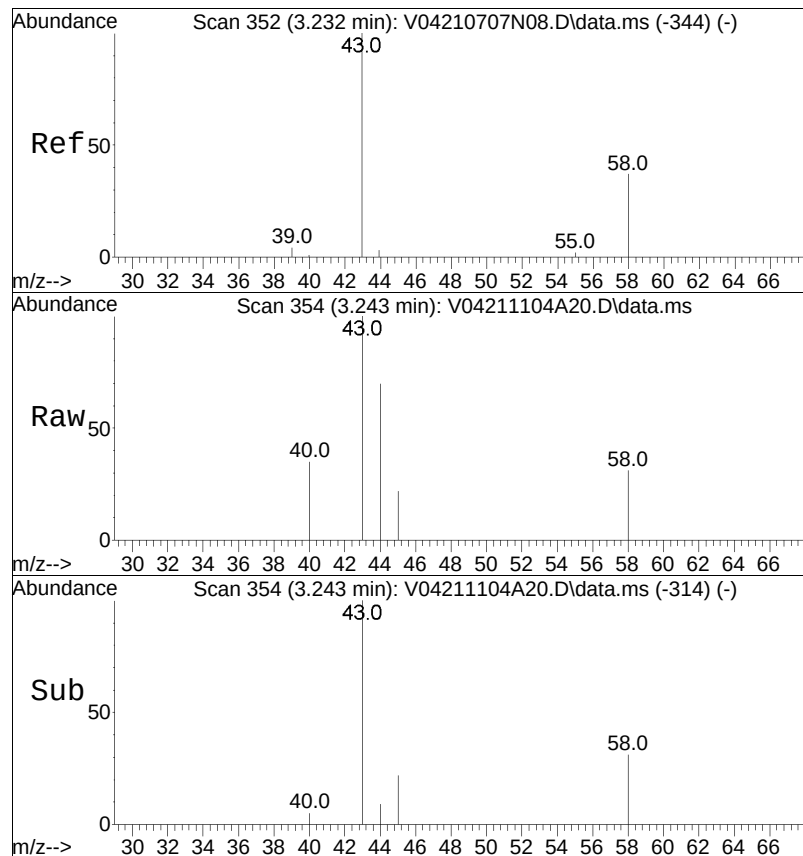




#11
 Carbon disulfide
 Concen: 0.18 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104A20.D
 Acq: 4 Nov 2021 2:40 pm

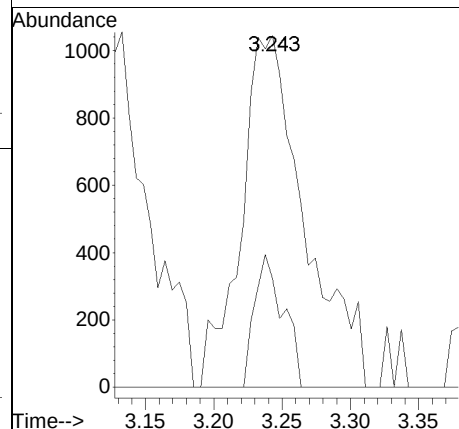
Tgt Ion: 76 Resp: 1699
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.6 13.8#





#17
 Acetone
 Concen: 3.05 ug/L
 RT: 3.243 min Scan# 354
 Delta R.T. 0.011 min
 Lab File: V04211104A20.D
 Acq: 4 Nov 2021 2:40 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.0	23.2	34.8#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104A20.D Operator : VOA104:MV
Date Inj'd : 11/4/2021 2:40 pm Instrument : VOA104
Sample : L2159682-01,31,2.71,5,,Y,PQuant Date : 11/4/2021 4:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A21.D
 Acq On : 4 Nov 2021 3:08 pm
 Operator : VOA104:MV
 Sample : L2159682-02,31,1.87,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 16:15:28 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	210649	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery =	80.07%		
59) Chlorobenzene-d5	9.063	117	181190	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery =	96.72%		
79) 1,4-Dichlorobenzene-d4	11.852	152	102951	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery =	100.29%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	67286	20.970	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.85%		
43) 1,2-Dichloroethane-d4	5.309	65	61245	20.135	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.68%		
60) Toluene-d8	7.238	98	229131	20.083	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.41%		
83) 4-Bromofluorobenzene	10.604	95	84568	17.737	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	88.68%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.681	50	202	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.016	94	74	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1749	0.185	ug/L	# 73
15) Methylene chloride	3.191	84	1348	Below Cal		76
17) Acetone	3.243	43	956	Below Cal	#	46
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	355	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A21.D
 Acq On : 4 Nov 2021 3:08 pm
 Operator : VOA104:MV
 Sample : L2159682-02,31,1.87,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 16:15:28 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.655	95	168		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.285	92	48		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.068	91	266		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.604	91	154		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A21.D
 Acq On : 4 Nov 2021 3:08 pm
 Operator : VOA104:MV
 Sample : L2159682-02,31,1.87,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 16:15:28 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.059	128	59		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

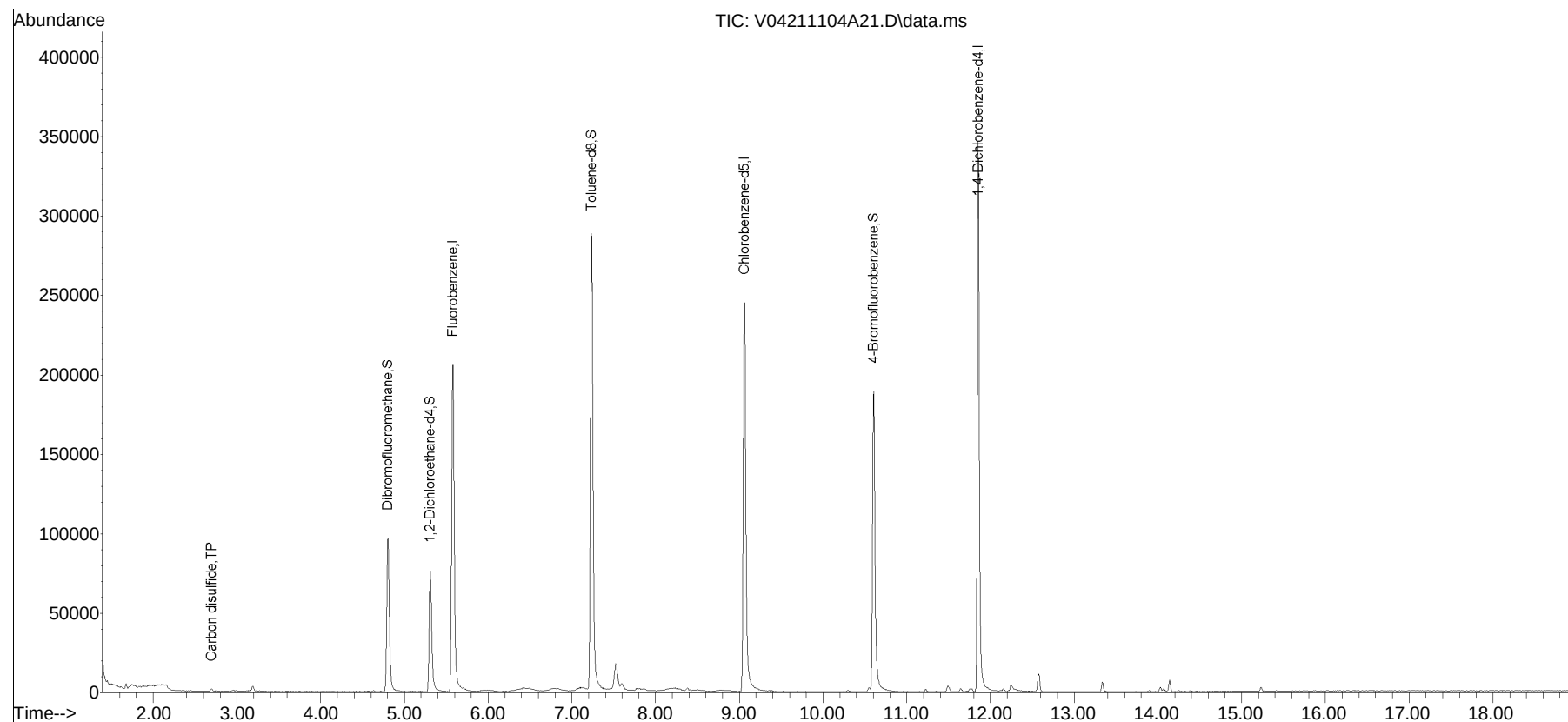
(#) = qualifier out of range (m) = manual integration (+) = signals summed

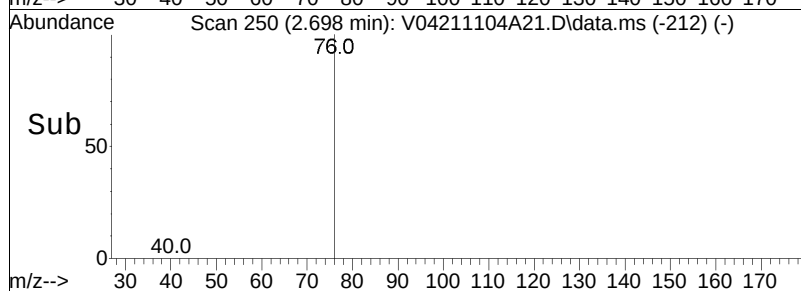
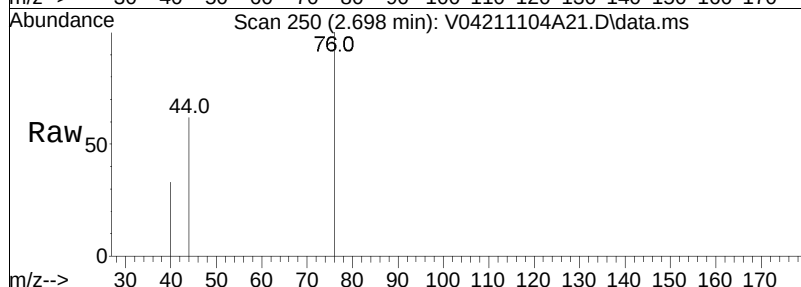
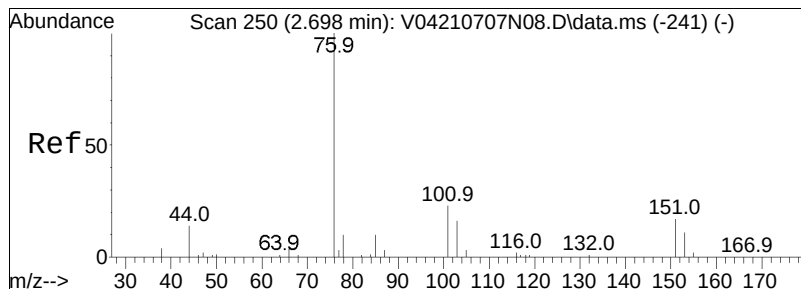
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A21.D
 Acq On : 4 Nov 2021 3:08 pm
 Operator : VOA104:MV
 Sample : L2159682-02,31,1.87,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 16:15:28 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

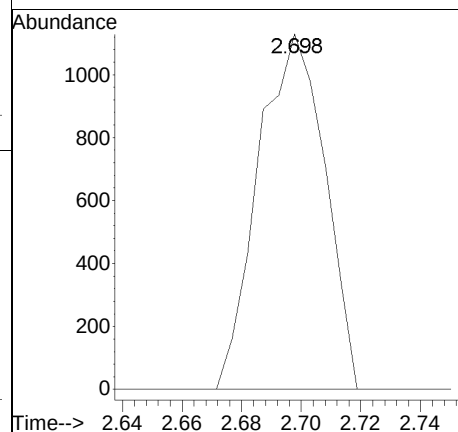
Sub List : 8260-NYTCL - Megamix plus Diox11104A\V04211104A02.D•





#11
Carbon disulfide
Concen: 0.19 ug/L
RT: 2.698 min Scan# 250
Delta R.T. -0.000 min
Lab File: V04211104A21.D
Acq: 4 Nov 2021 3:08 pm

Tgt Ion: 76 Resp: 1749
Ion Ratio Lower Upper
76 100
78 0.0 6.6 13.8#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104A21.D Operator : VOA104:MV
Date Inj'd : 11/4/2021 3:08 pm Instrument : VOA104
Sample : L2159682-02,31,1.87,5,,Y,PQuant Date : 11/4/2021 4:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A22.D
 Acq On : 4 Nov 2021 3:33 pm
 Operator : VOA104:MV
 Sample : L2159682-03,31,2.69,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 16:19:42 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	212687	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery = 80.85%			
59) Chlorobenzene-d5	9.063	117	183061	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery = 97.72%			
79) 1,4-Dichlorobenzene-d4	11.852	152	105748	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery = 103.01%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	69485	21.448	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 107.24%			
43) 1,2-Dichloroethane-d4	5.309	65	63158	20.564	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.82%			
60) Toluene-d8	7.238	98	229928	19.947	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.73%			
83) 4-Bromofluorobenzene	10.604	95	85073	17.371	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 86.85%			
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	146	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.032	94	213	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1872	0.196	ug/L	# 80
15) Methylene chloride	3.185	84	1702	Below Cal		83
17) Acetone	3.238	43	3203	2.783	ug/L	89
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.643	83	323	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A22.D
 Acq On : 4 Nov 2021 3:33 pm
 Operator : VOA104:MV
 Sample : L2159682-03,31,2.69,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 16:19:42 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.676	95	97		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.296	92	588		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	280		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.609	91	48		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A22.D
 Acq On : 4 Nov 2021 3:33 pm
 Operator : VOA104:MV
 Sample : L2159682-03,31,2.69,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 16:19:42 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.054	128	53		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

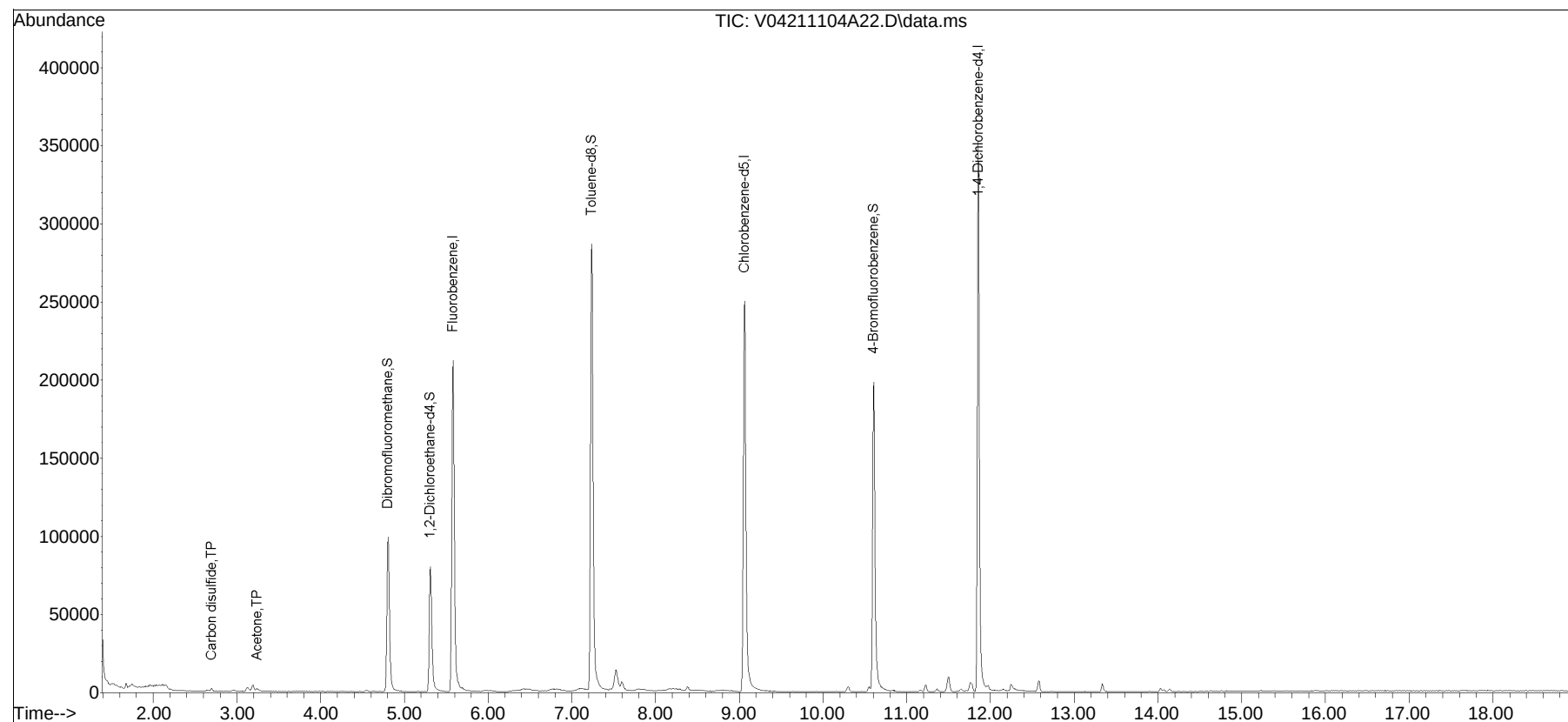
(#) = qualifier out of range (m) = manual integration (+) = signals summed

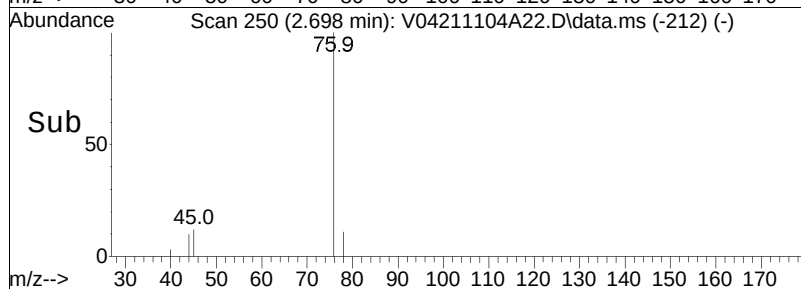
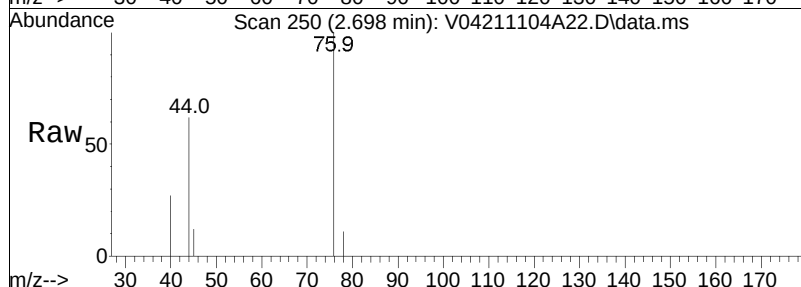
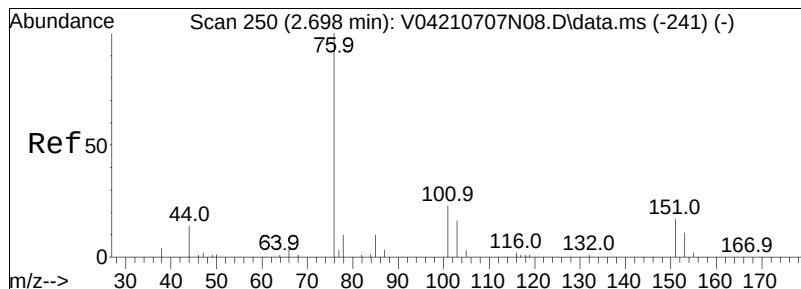
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A22.D
 Acq On : 4 Nov 2021 3:33 pm
 Operator : VOA104:MV
 Sample : L2159682-03,31,2.69,5,,Y,PRI
 Misc : WG1567116,ICAL18128
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 16:19:42 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

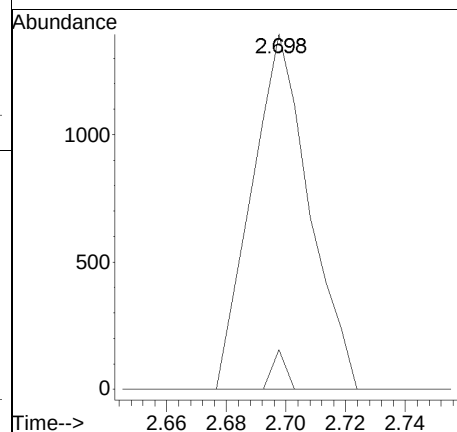
Sub List : 8260-NYTCL - Megamix plus Diox11104A\V04211104A02.D•

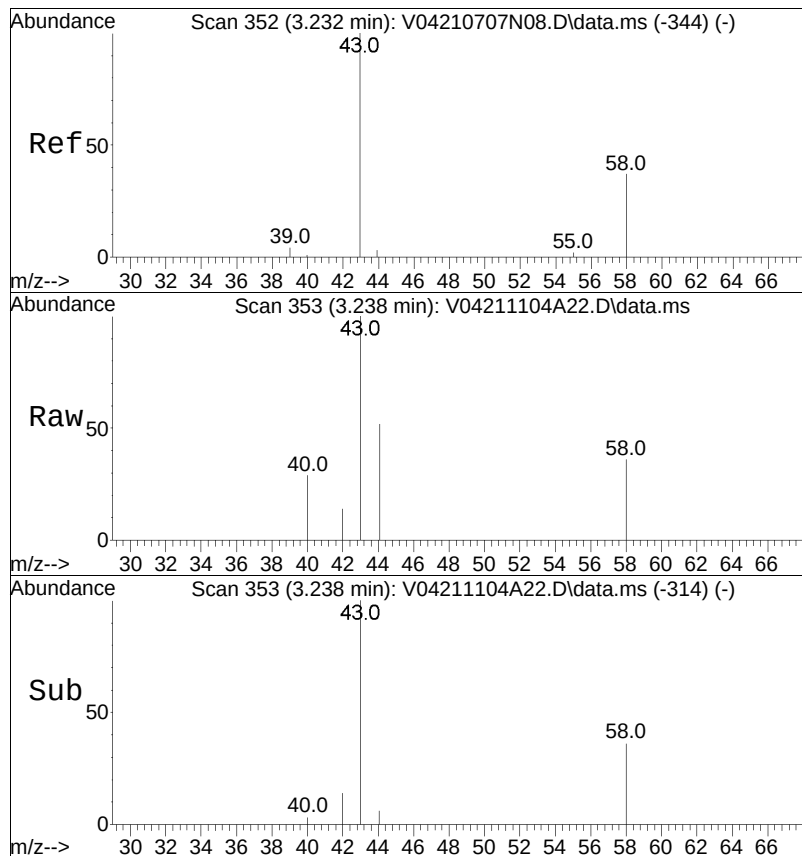




#11
 Carbon disulfide
 Concen: 0.20 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104A22.D
 Acq: 4 Nov 2021 3:33 pm

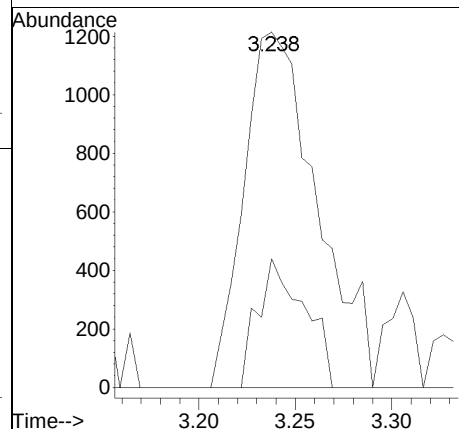
Tgt Ion: 76 Resp: 1872
 Ion Ratio Lower Upper
 76 100
 78 2.6 6.6 13.8#





#17
 Acetone
 Concen: 2.78 ug/L
 RT: 3.238 min Scan# 353
 Delta R.T. 0.006 min
 Lab File: V04211104A22.D
 Acq: 4 Nov 2021 3:33 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.3	23.2	34.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104A22.D Operator : VOA104:MV
Date Inj'd : 11/4/2021 3:33 pm Instrument : VOA104
Sample : L2159682-03,31,2.69,5,,Y,PQuant Date : 11/4/2021 4:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N06.D
 Acq On : 4 Nov 2021 8:05 pm
 Operator : VOA104:NLK
 Sample : L2159682-04,31,3.67,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 05 08:48:20 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	202075	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery	=	76.02%	
59) Chlorobenzene-d5	9.063	117	181690	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery	=	97.17%	
79) 1,4-Dichlorobenzene-d4	11.857	152	105413	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery	=	106.02%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	69348	22.530	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	112.65%	
43) 1,2-Dichloroethane-d4	5.309	65	61516	21.082	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	105.41%	
60) Toluene-d8	7.238	98	228861	20.005	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.02%	
83) 4-Bromofluorobenzene	10.604	95	85686	17.551	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	87.75%	
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.000	94	238	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.697	76	3532	0.390	ug/L	# 88
15) Methylene chloride	3.190	84	1639	Below Cal		79
17) Acetone	3.227	43	42974	74.899	ug/L	95
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	3.966	43	489	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.637	83	354	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N06.D
 Acq On : 4 Nov 2021 8:05 pm
 Operator : VOA104:NLK
 Sample : L2159682-04,31,3.67,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 05 08:48:20 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	4.957	43	913	Below Cal	#	42
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.183	78	53	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.290	92	64	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	7.736	166	893	0.251	ug/L	82
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.068	91	157	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	10.782	91	108	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	11.008	105	48	N.D.		
89) 2-Chlorotoluene	10.782	91	108	N.D.		
90) 1,3,5-Trimethylbenzene	11.008	105	48	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	11.348	119	55	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N06.D
 Acq On : 4 Nov 2021 8:05 pm
 Operator : VOA104:NLK
 Sample : L2159682-04,31,3.67,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 05 08:48:20 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.464	105	162	N.D.		
98)	sec-Butylbenzene	11.553	105	462	N.D.		
99)	p-Isopropyltoluene	11.710	119	427	N.D.		
100)	1,3-Dichlorobenzene	11.789	146	58	N.D.		
101)	1,4-Dichlorobenzene	11.873	146	275	N.D.		
102)	p-Diethylbenzene	12.098	119	277	N.D.		
103)	n-Butylbenzene	12.172	91	391	N.D.		
104)	1,2-Dichlorobenzene	12.318	146	53	N.D.		
105)	1,2,4,5-Tetramethylben...	12.911	119	895	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	13.750	180	554	0.106	ug/L #	85
110)	Naphthalene	14.043	128	1964	0.177	ug/L	100
111)	1,2,3-Trichlorobenzene	14.201	180	714	0.150	ug/L #	84

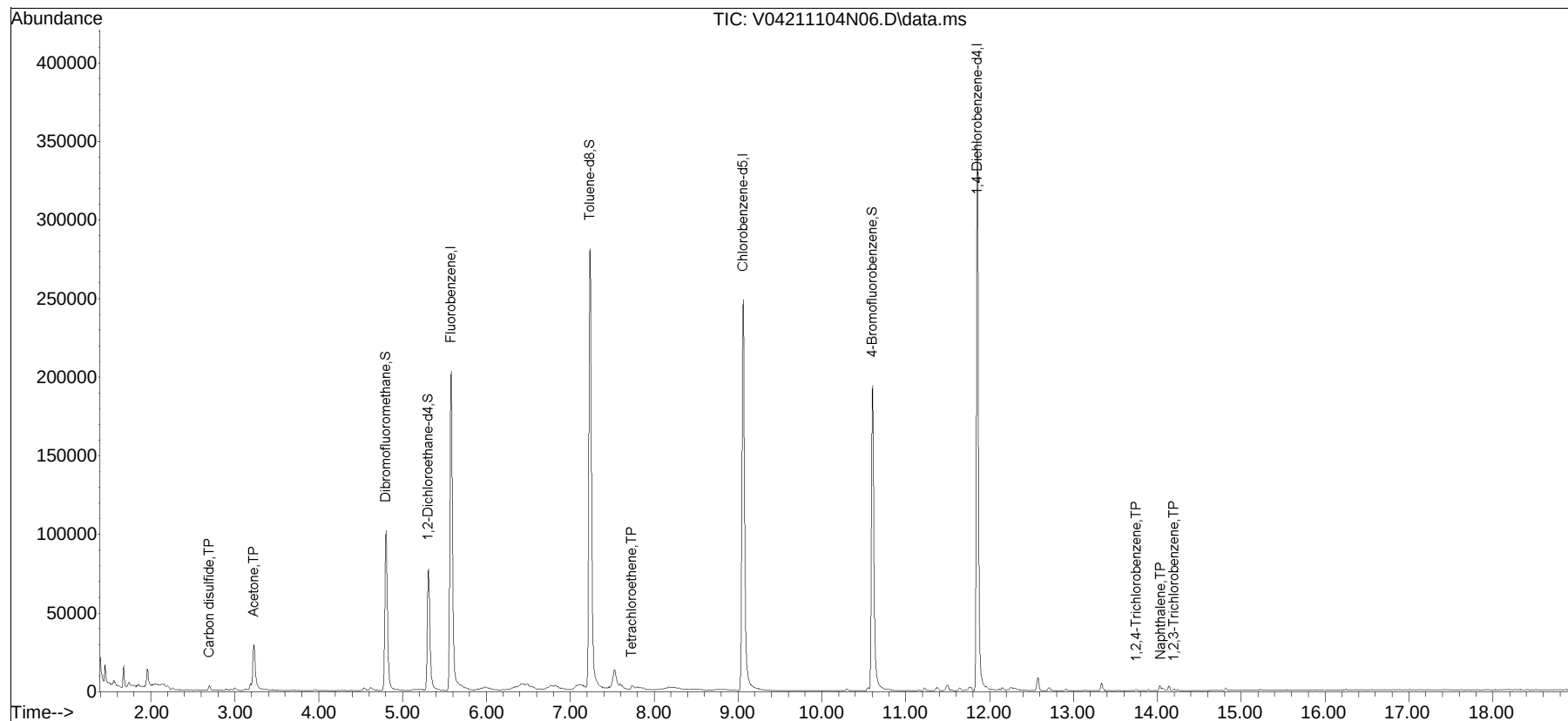
(#) = qualifier out of range (m) = manual integration (+) = signals summed

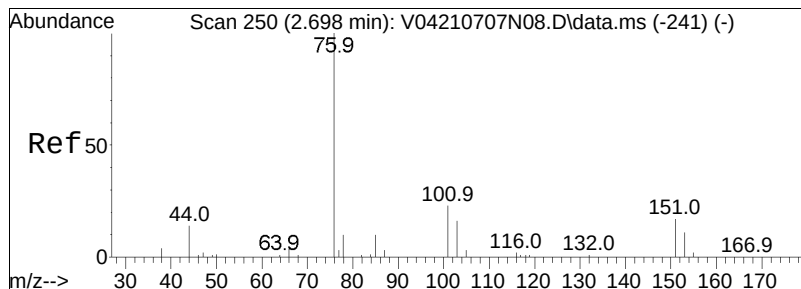
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N06.D
 Acq On : 4 Nov 2021 8:05 pm
 Operator : VOA104:NLK
 Sample : L2159682-04,31,3.67,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 05 08:48:20 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

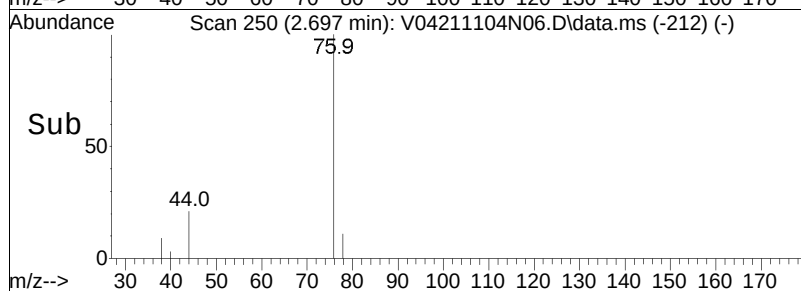
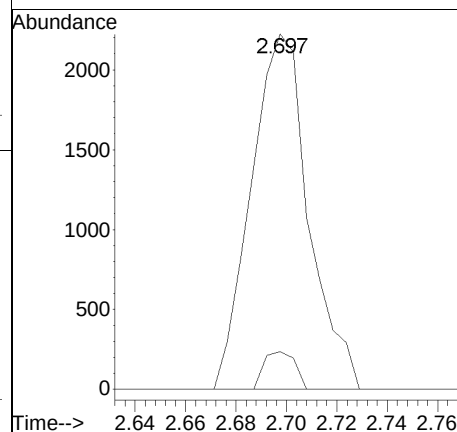
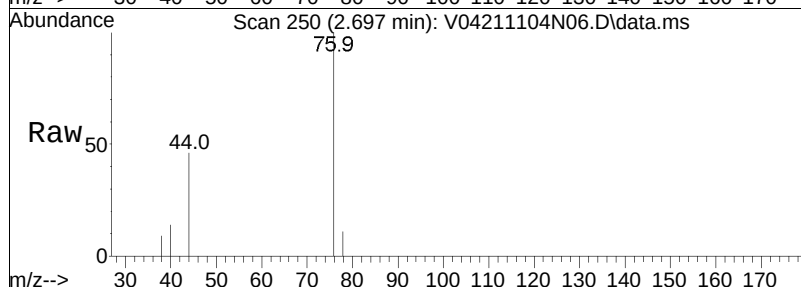
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

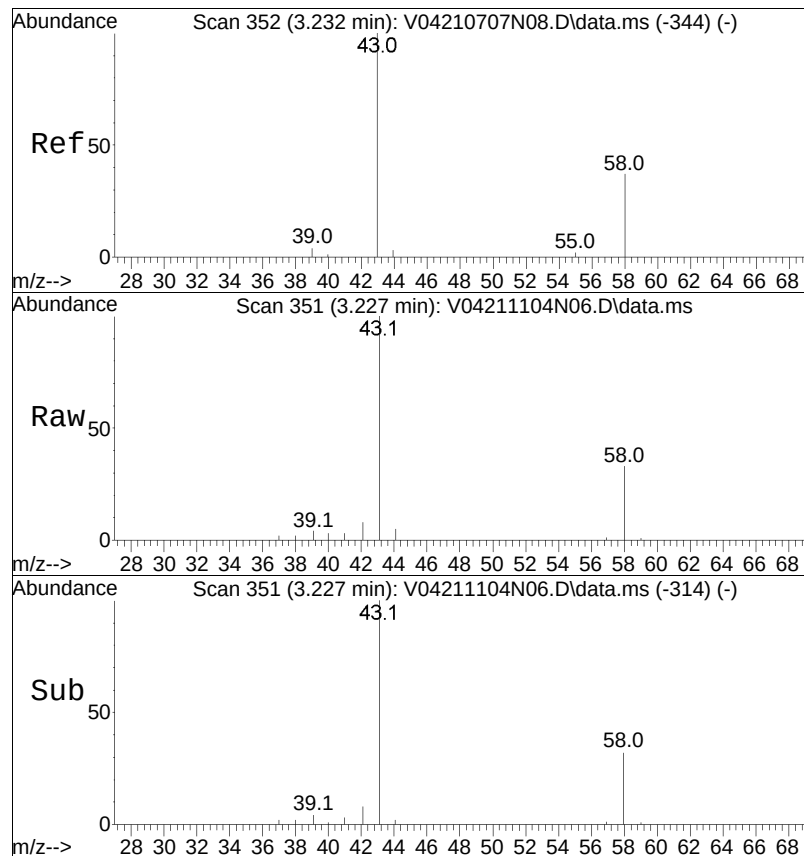




#11
 Carbon disulfide
 Concen: 0.39 ug/L
 RT: 2.697 min Scan# 250
 Delta R.T. -0.001 min
 Lab File: V04211104N06.D
 Acq: 4 Nov 2021 8:05 pm

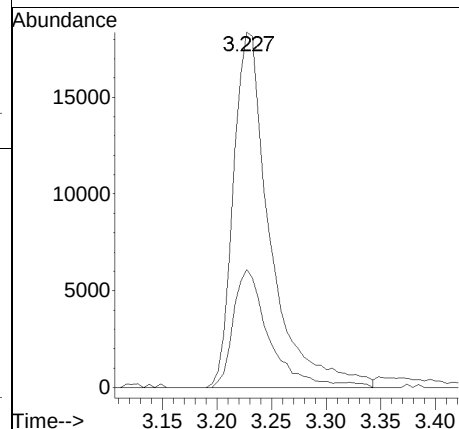
Tgt Ion: 76 Resp: 3532
 Ion Ratio Lower Upper
 76 100
 78 5.7 6.6 13.8#

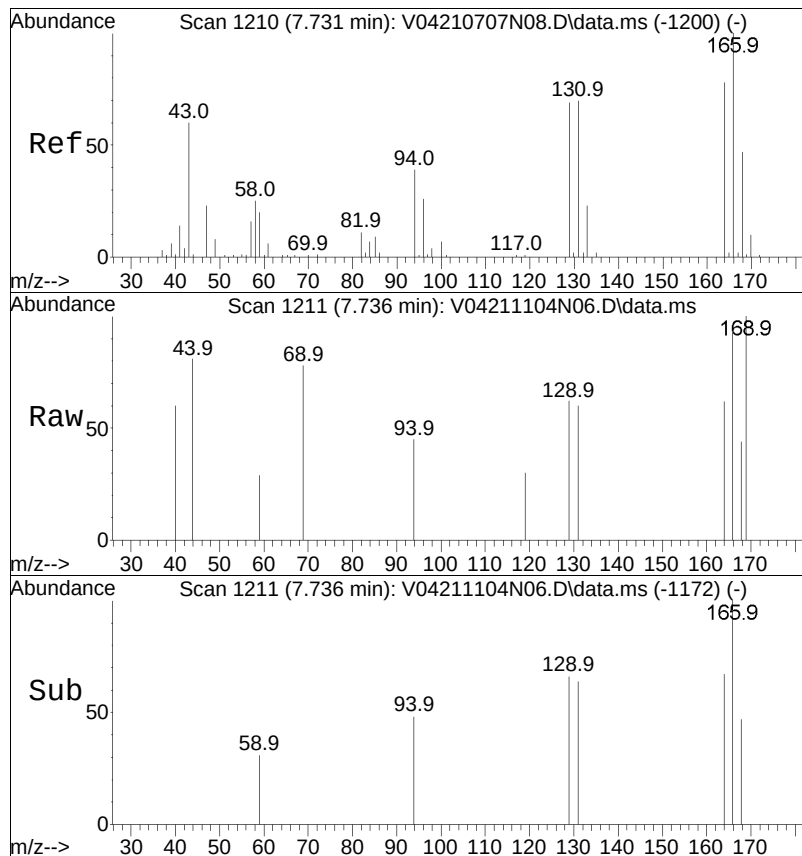




#17
 Acetone
 Concen: 74.90 ug/L
 RT: 3.227 min Scan# 351
 Delta R.T. -0.005 min
 Lab File: V04211104N06.D
 Acq: 4 Nov 2021 8:05 pm

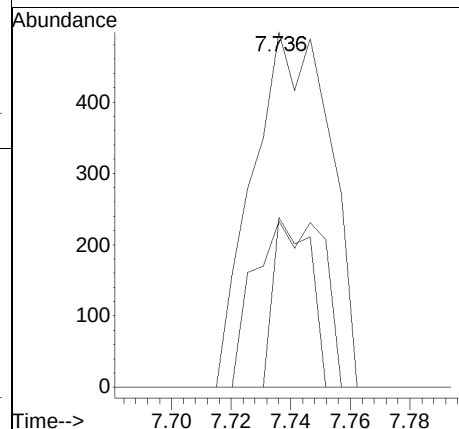
Tgt Ion:	43	58	Ratio	Lower	Upper
Resp:	42974				
Ion Ratio	100	31.9			
		23.2		34.8	

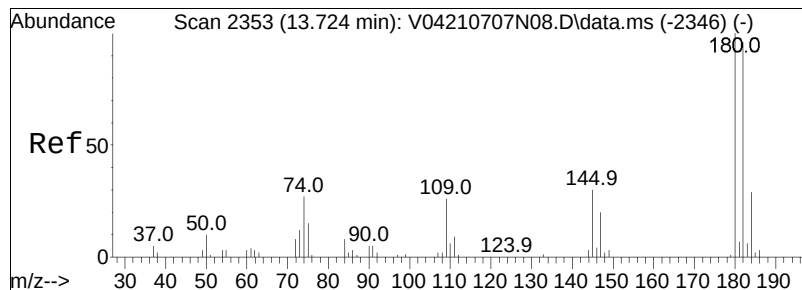




#63
Tetrachloroethene
Concen: 0.25 ug/L
RT: 7.736 min Scan# 1211
Delta R.T. 0.005 min
Lab File: V04211104N06.D
Acq: 4 Nov 2021 8:05 pm

Tgt Ion:	166	Resp:	893
Ion Ratio	Lower	Upper	
166	100		
168	42.2	27.6	67.6
94	23.0	20.9	60.9





#109

1,2,4-Trichlorobenzene

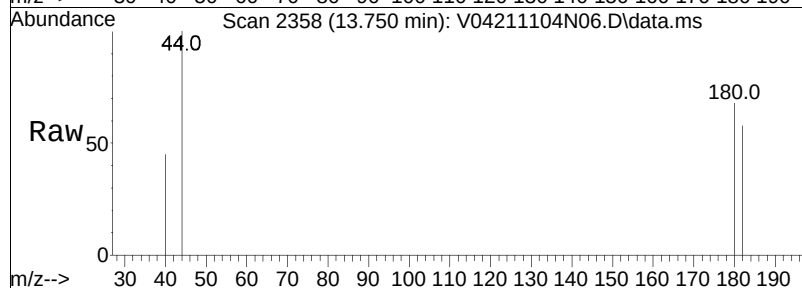
Concen: 0.11 ug/L

RT: 13.750 min Scan# 2358

Delta R.T. 0.026 min

Lab File: V04211104N06.D

Acq: 4 Nov 2021 8:05 pm



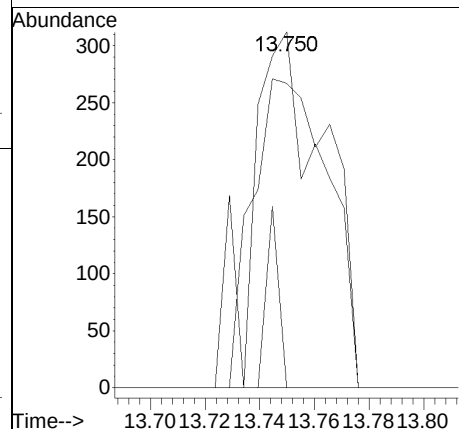
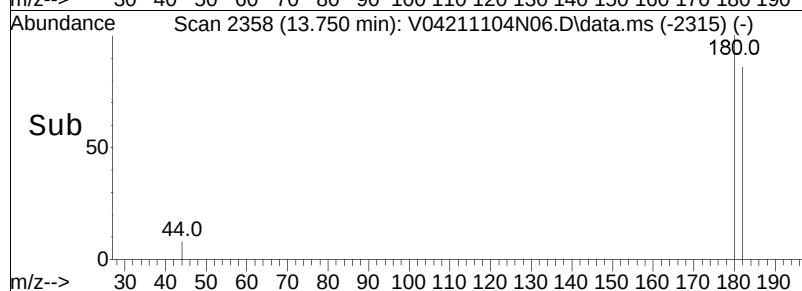
Tgt Ion:180 Resp: 554

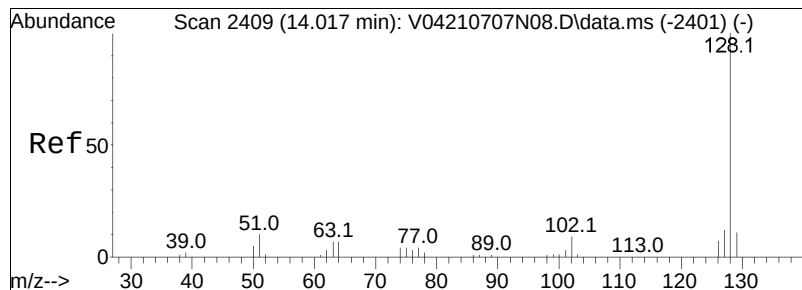
Ion Ratio Lower Upper

180 100

182 99.5 77.0 115.4

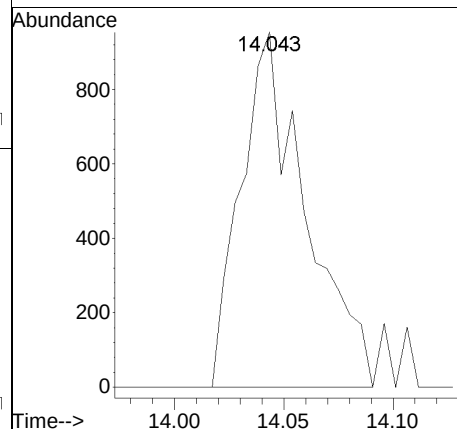
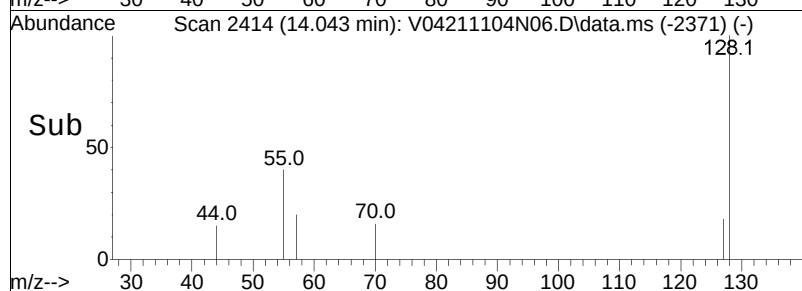
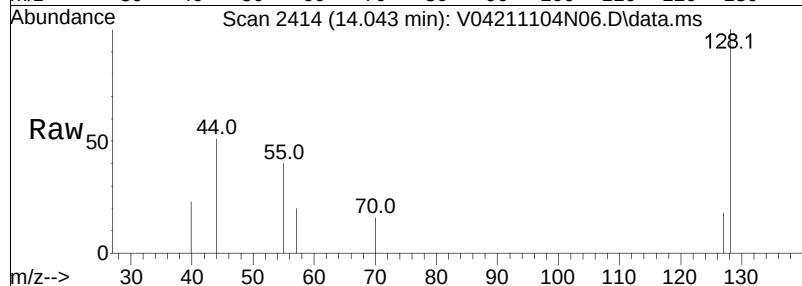
145 9.0 28.4 42.6#

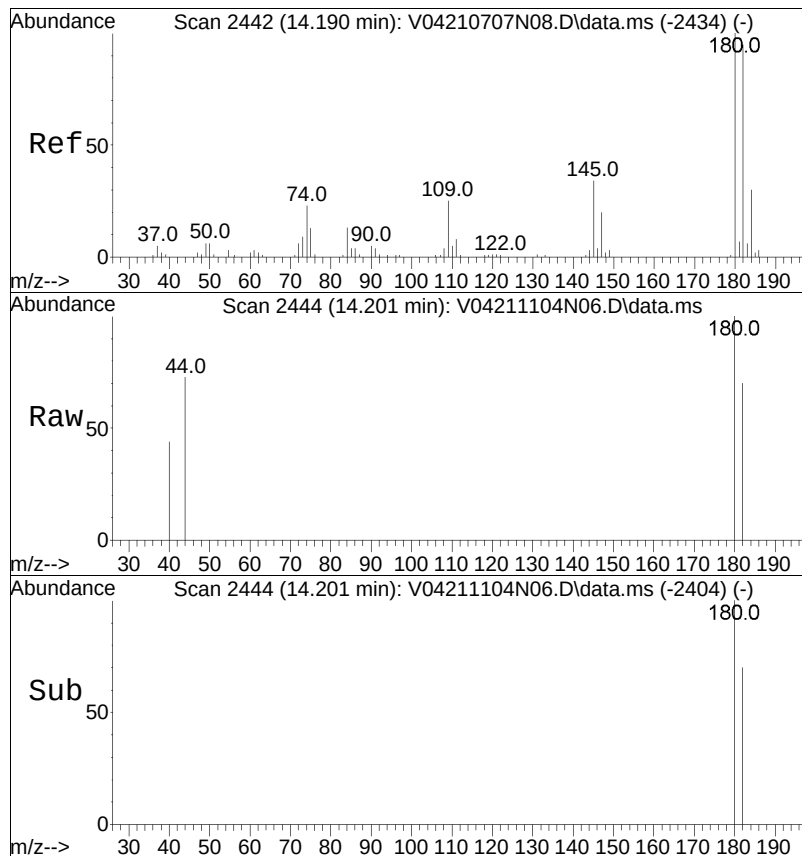




#110
Naphthalene
Concen: 0.18 ug/L
RT: 14.043 min Scan# 2414
Delta R.T. 0.026 min
Lab File: V04211104N06.D
Acq: 4 Nov 2021 8:05 pm

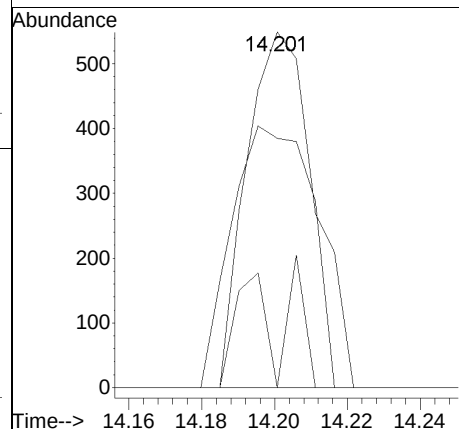
Tgt Ion:128 Resp: 1964





#111
 1,2,3-Trichlorobenzene
 Concen: 0.15 ug/L
 RT: 14.201 min Scan# 2444
 Delta R.T. 0.011 min
 Lab File: V04211104N06.D
 Acq: 4 Nov 2021 8:05 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.2	75.9	113.9
145	14.4	25.8	38.6



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N06.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 8:05 pm Instrument : VOA104
Sample : L2159682-04,31,3.67,5,,Y,PQuant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N07.D
 Acq On : 4 Nov 2021 8:31 pm
 Operator : VOA104:NLK
 Sample : L2159682-05,31,2.83,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 08:42:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	211793	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	79.68%		
59) Chlorobenzene-d5	9.063	117	182760	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	97.74%		
79) 1,4-Dichlorobenzene-d4	11.852	152	106631	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	107.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68995	21.387	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.94%		
43) 1,2-Dichloroethane-d4	5.309	65	62625	20.477	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.38%		
60) Toluene-d8	7.238	98	230111	19.996	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.98%		
83) 4-Bromofluorobenzene	10.604	95	85212	17.255	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	86.27%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	123	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.969	94	79	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.703	76	1945	0.205	ug/L	# 79
15) Methylene chloride	3.196	84	1508	Below Cal		86
17) Acetone	3.238	43	2394	1.413	ug/L	# 82
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.643	83	400	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N07.D
 Acq On : 4 Nov 2021 8:31 pm
 Operator : VOA104:NLK
 Sample : L2159682-05,31,2.83,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 08:42:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.296	92	114		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.068	91	100		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.604	91	62		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N07.D
 Acq On : 4 Nov 2021 8:31 pm
 Operator : VOA104:NLK
 Sample : L2159682-05,31,2.83,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 08:42:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.459	105	111		N.D.	
98)	sec-Butylbenzene	11.548	105	251		N.D.	
99)	p-Isopropyltoluene	11.716	119	243		N.D.	
100)	1,3-Dichlorobenzene	11.800	146	50		N.D.	
101)	1,4-Dichlorobenzene	11.873	146	266		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	12.172	91	134		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	12.911	119	480		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	13.750	180	111		N.D.	
110)	Naphthalene	14.044	128	1158	0.103	ug/L	100
111)	1,2,3-Trichlorobenzene	14.196	180	483	0.100	ug/L #	46

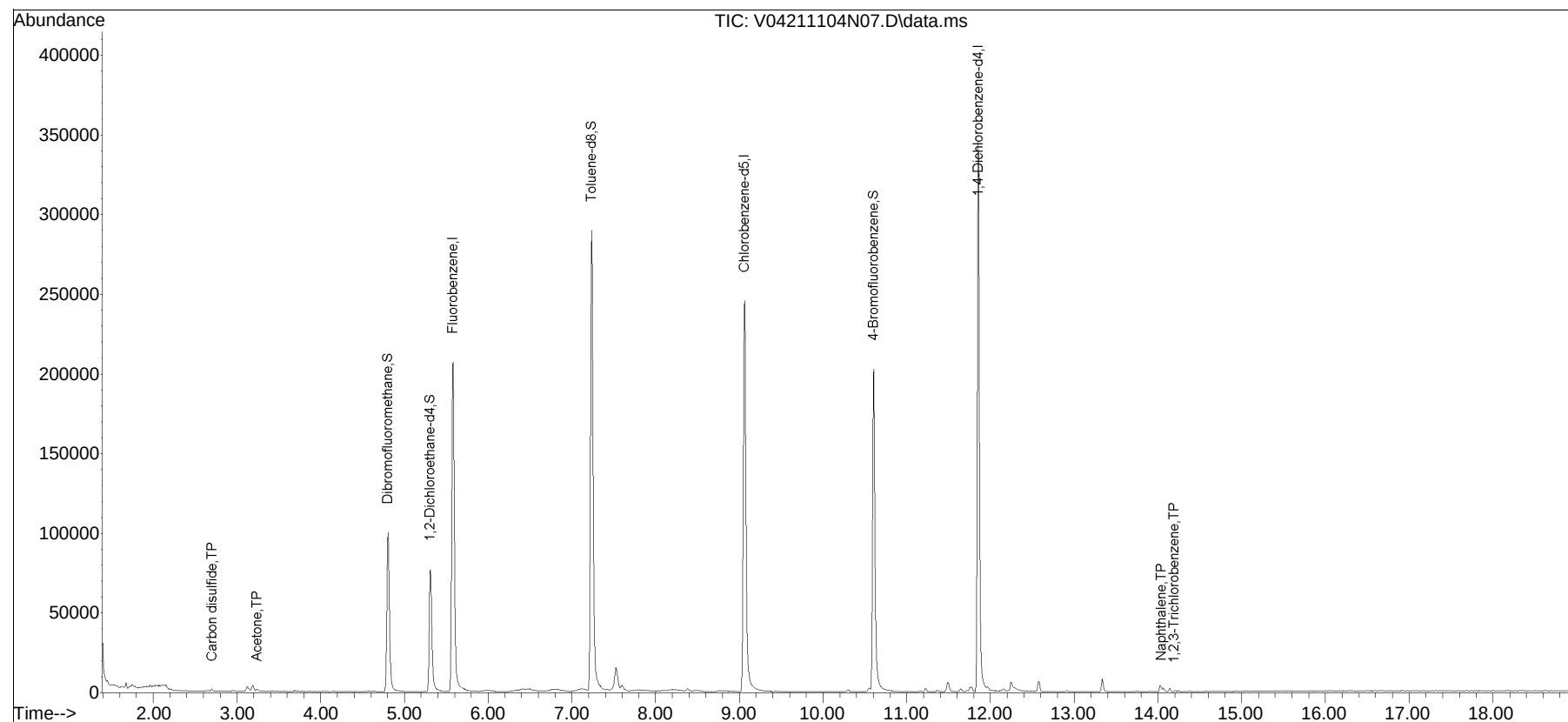
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

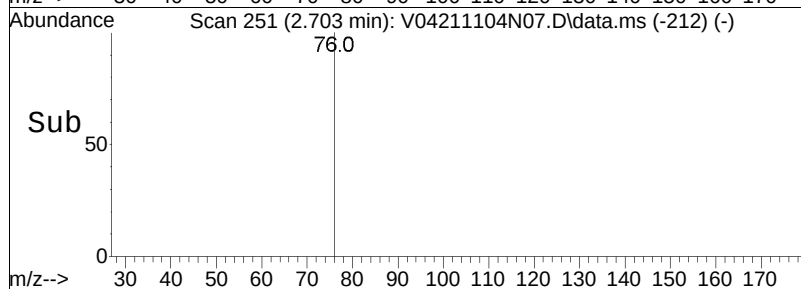
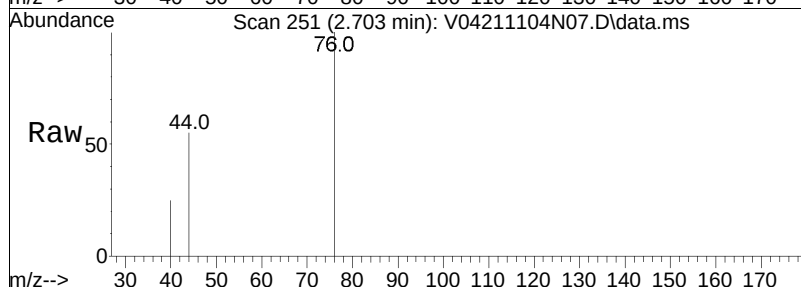
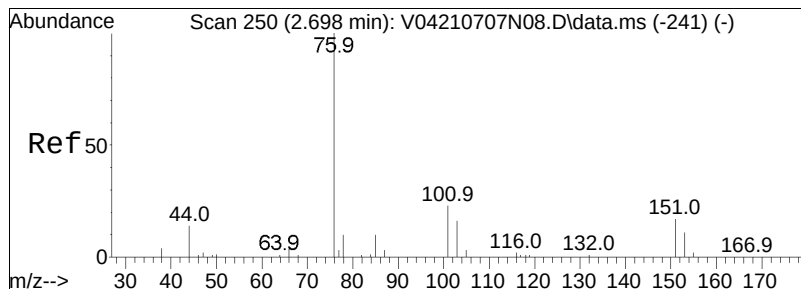
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N07.D
 Acq On : 4 Nov 2021 8:31 pm
 Operator : VOA104:NLK
 Sample : L2159682-05,31,2.83,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 05 08:42:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

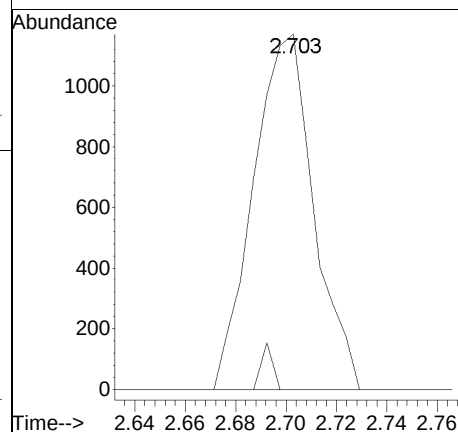
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

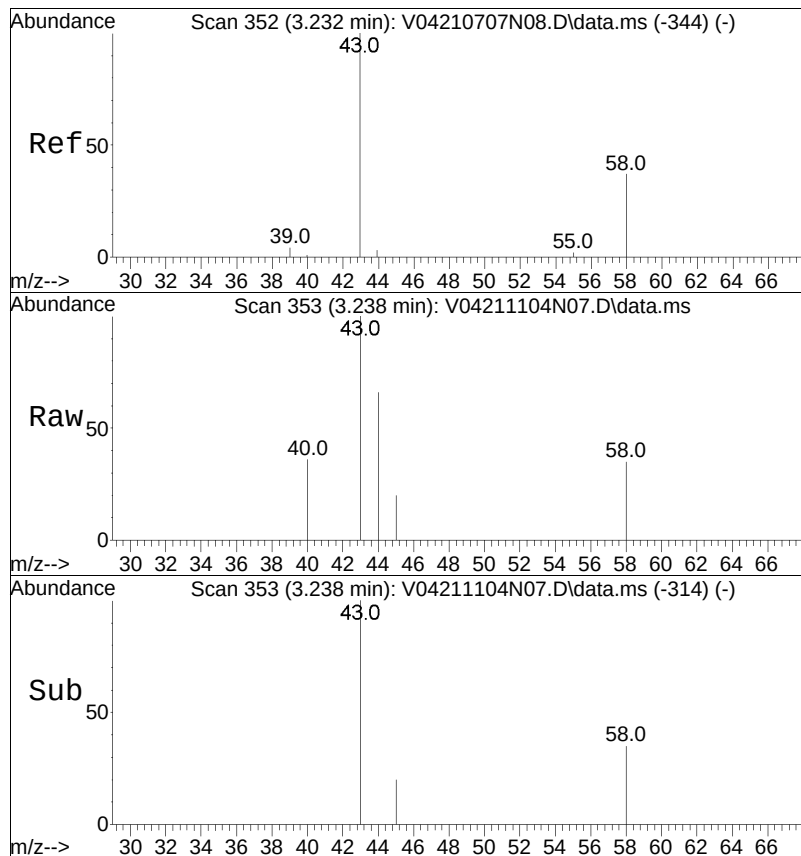




#11
Carbon disulfide
Concen: 0.20 ug/L
RT: 2.703 min Scan# 251
Delta R.T. 0.005 min
Lab File: V04211104N07.D
Acq: 4 Nov 2021 8:31 pm

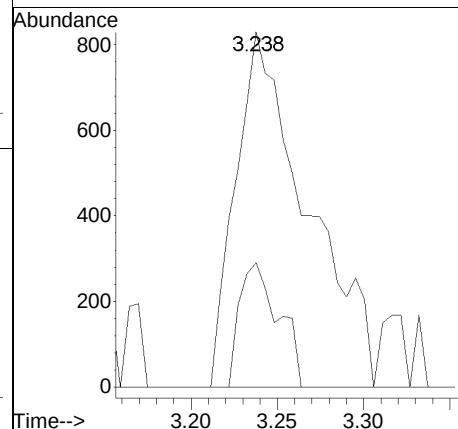
Tgt Ion: 76 Resp: 1945
Ion Ratio Lower Upper
76 100
78 2.5 6.6 13.8#

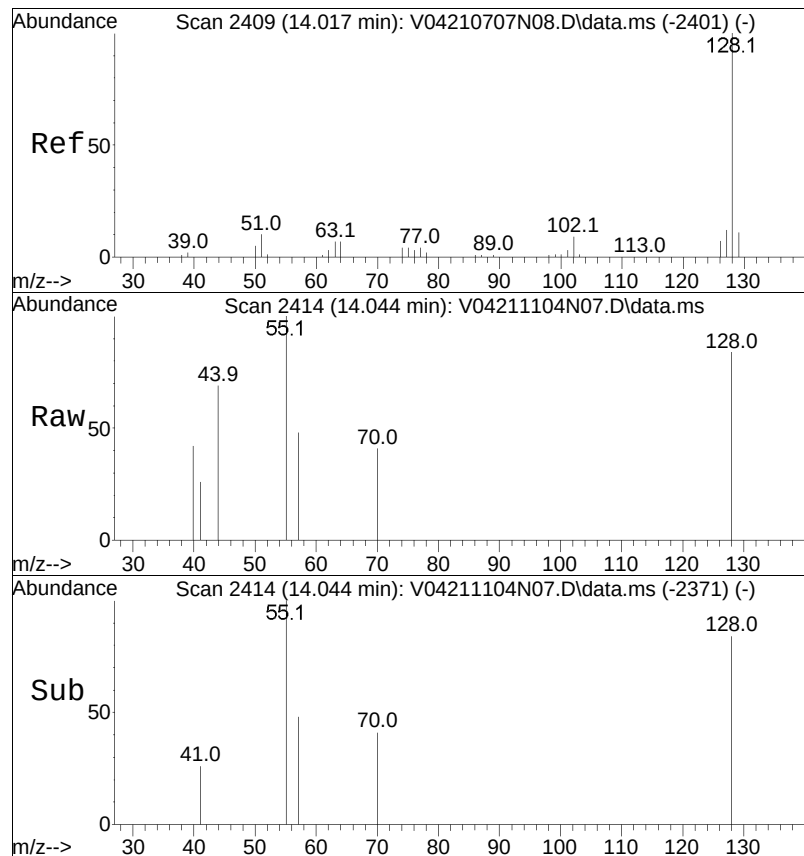




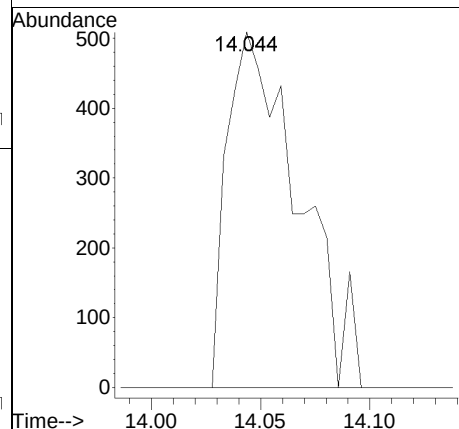
#17
 Acetone
 Concen: 1.41 ug/L
 RT: 3.238 min Scan# 353
 Delta R.T. 0.006 min
 Lab File: V04211104N07.D
 Acq: 4 Nov 2021 8:31 pm

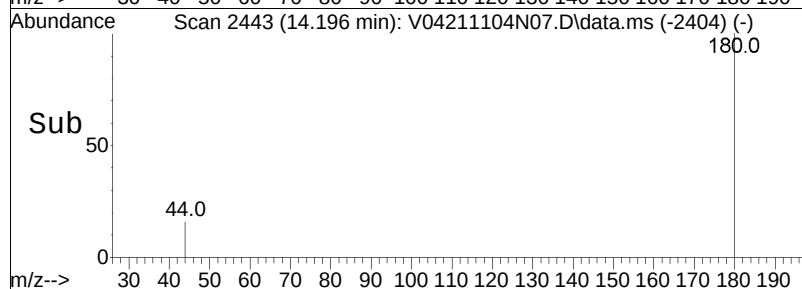
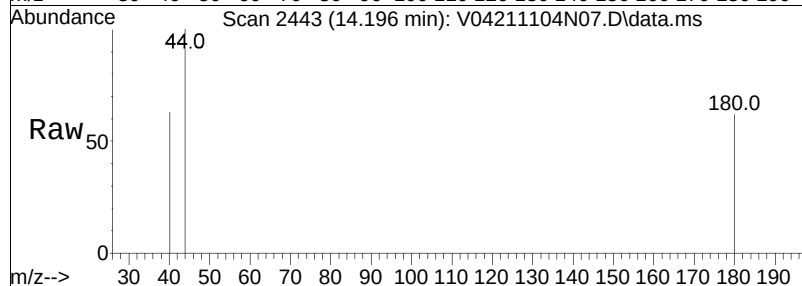
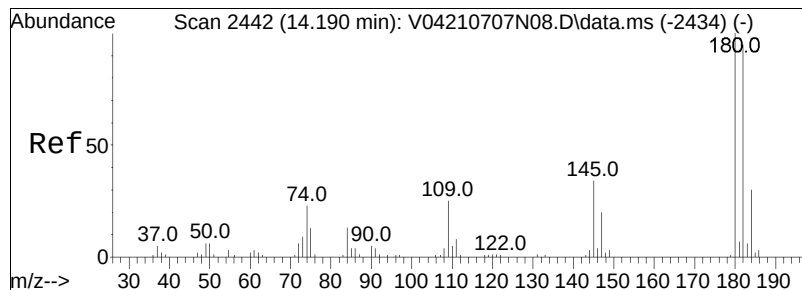
Tgt Ion: 43 Resp: 2394
 Ion Ratio Lower Upper
 43 100
 58 19.2 23.2 34.8#





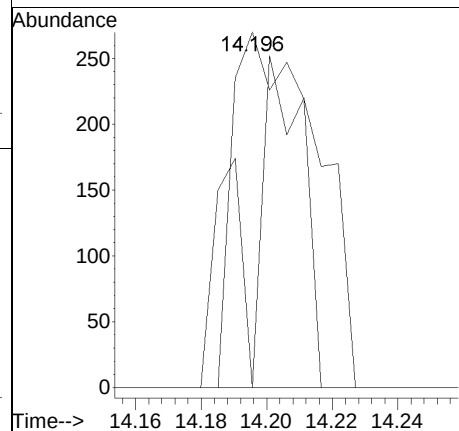
#110
 Naphthalene
 Concen: 0.10 ug/L
 RT: 14.044 min Scan# 2414
 Delta R.T. 0.027 min
 Lab File: V04211104N07.D
 Acq: 4 Nov 2021 8:31 pm
 Tgt Ion:128 Resp: 1158





#111
 1,2,3-Trichlorobenzene
 Concen: 0.10 ug/L
 RT: 14.196 min Scan# 2443
 Delta R.T. 0.006 min
 Lab File: V04211104N07.D
 Acq: 4 Nov 2021 8:31 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	43.3	75.9	113.9#
145	0.0	25.8	38.6#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N07.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 8:31 pm Instrument : VOA104
Sample : L2159682-05,31,2.83,5,,Y,PQuant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N08.D
 Acq On : 4 Nov 2021 8:56 pm
 Operator : VOA104:NLK
 Sample : L2159682-06,31,4.53,5,,Y
 Misc : WG1567587,ICAL18128
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 08:42:45 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	213339	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery = 80.26%			
59) Chlorobenzene-d5	9.063	117	185748	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery = 99.34%			
79) 1,4-Dichlorobenzene-d4	11.852	152	106645	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery = 107.26%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68613	21.114	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 105.57%			
43) 1,2-Dichloroethane-d4	5.309	65	63225	20.523	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.61%			
60) Toluene-d8	7.238	98	230501	19.708	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.54%			
83) 4-Bromofluorobenzene	10.604	95	87342	17.684	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 88.42%			
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	114	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.005	94	90	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1822	0.191	ug/L	# 73
15) Methylene chloride	3.190	84	1464	Below Cal		83
17) Acetone	3.238	43	3040	2.488	ug/L	91
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.643	83	404	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N08.D
 Acq On : 4 Nov 2021 8:56 pm
 Operator : VOA104:NLK
 Sample : L2159682-06,31,4.53,5,,Y
 Misc : WG1567587,ICAL18128
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 08:42:45 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.285	92	431		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.052	91	218		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N08.D
 Acq On : 4 Nov 2021 8:56 pm
 Operator : VOA104:NLK
 Sample : L2159682-06,31,4.53,5,,Y
 Misc : WG1567587,ICAL18128
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 08:42:45 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.453	105	49		N.D.	
98)	sec-Butylbenzene	11.453	105	49		N.D.	
99)	p-Isopropyltoluene	11.705	119	122		N.D.	
100)	1,3-Dichlorobenzene	11.862	146	170		N.D.	
101)	1,4-Dichlorobenzene	11.862	146	170		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	12.177	91	47		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	12.911	119	318		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	13.750	180	48		N.D.	
110)	Naphthalene	14.049	128	827		N.D.	
111)	1,2,3-Trichlorobenzene	14.196	180	117		N.D.	

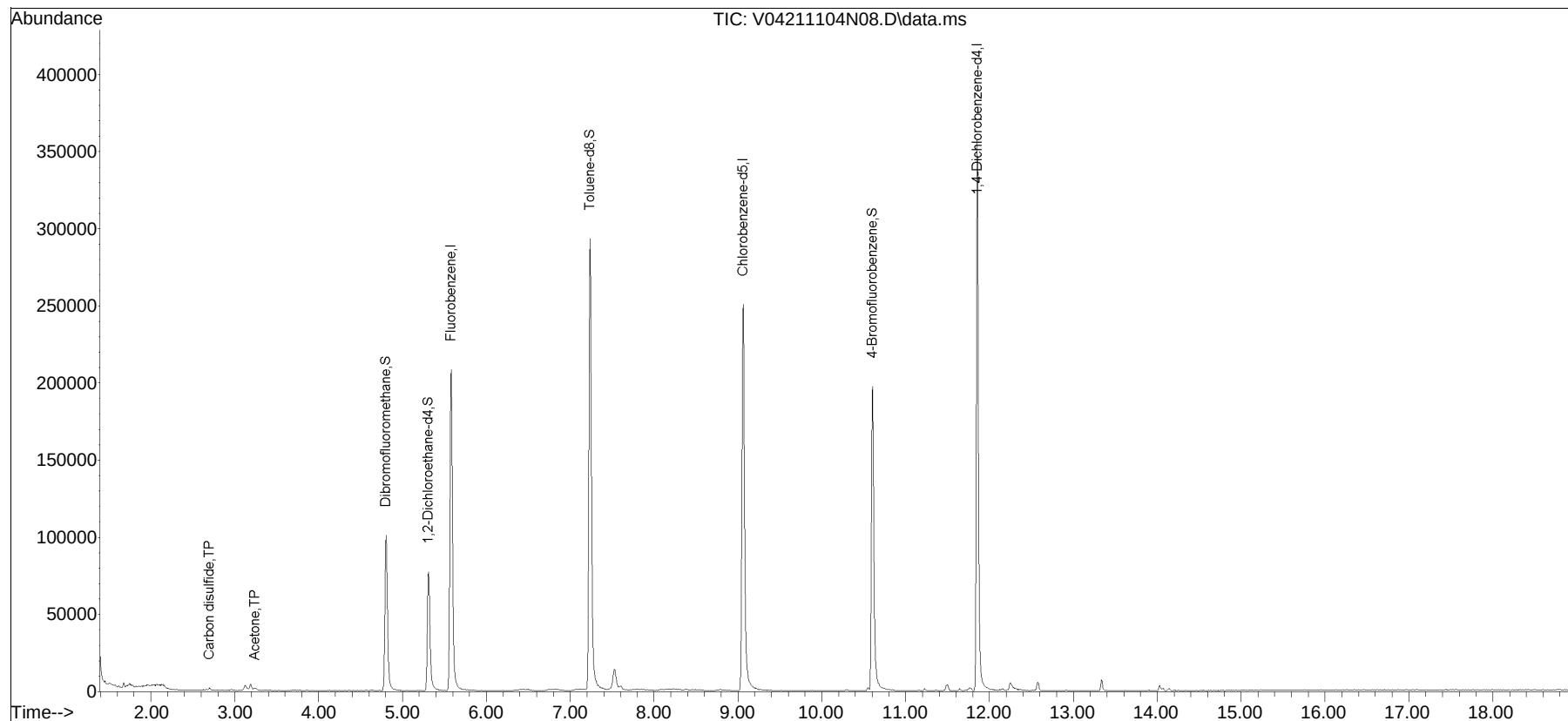
(#) = qualifier out of range (m) = manual integration (+) = signals summed

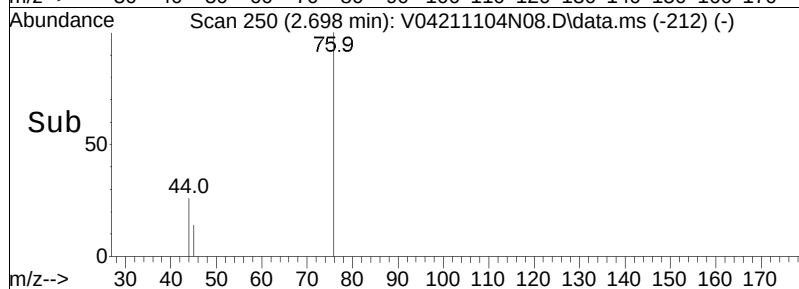
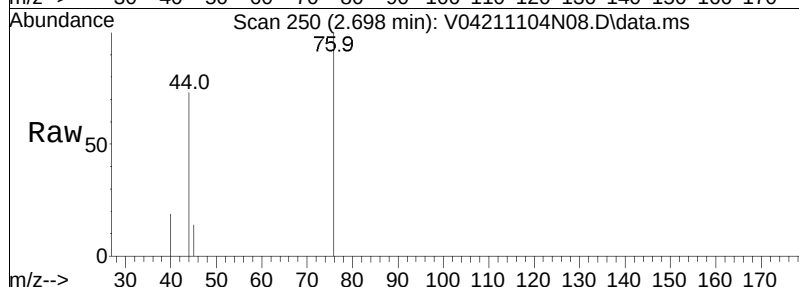
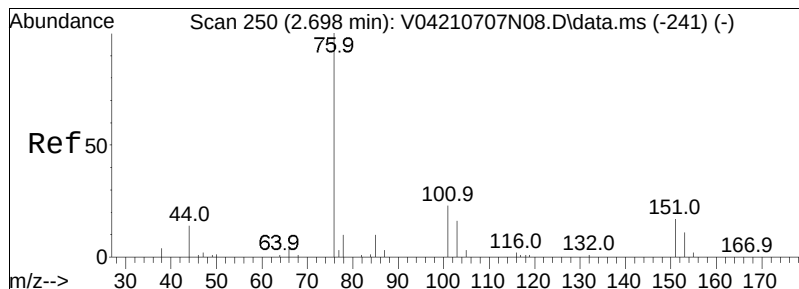
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N08.D
 Acq On : 4 Nov 2021 8:56 pm
 Operator : VOA104:NLK
 Sample : L2159682-06,31,4.53,5,,Y
 Misc : WG1567587,ICAL18128
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 05 08:42:45 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

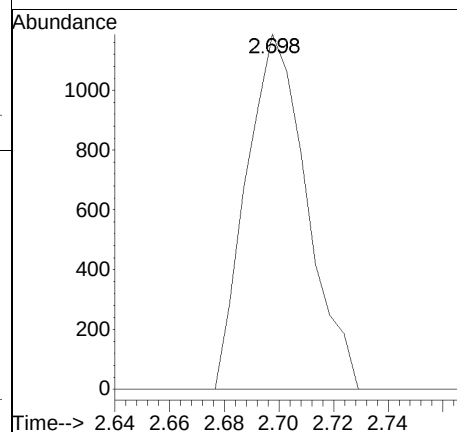
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

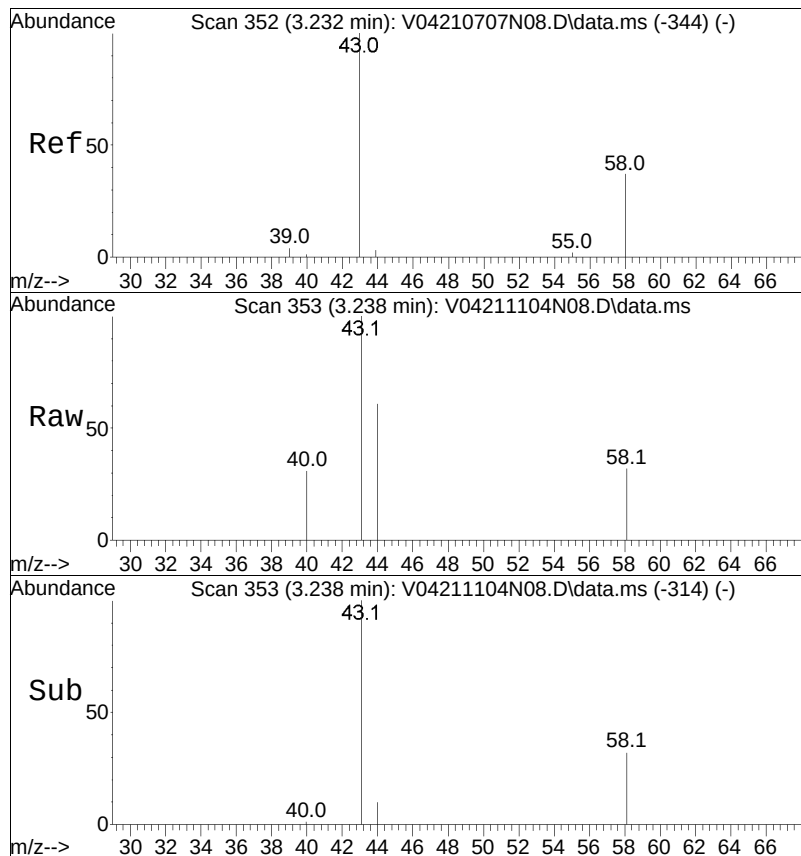




#11
 Carbon disulfide
 Concen: 0.19 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N08.D
 Acq: 4 Nov 2021 8:56 pm

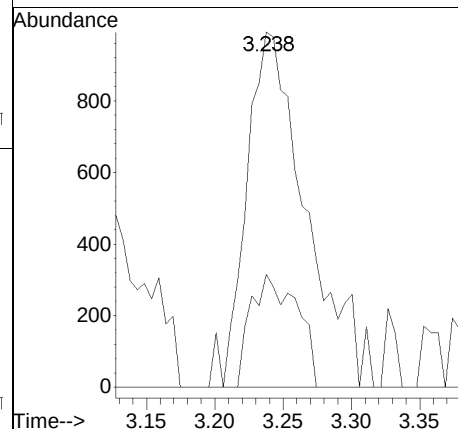
Tgt Ion: 76 Resp: 1822
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.6 13.8#





#17
 Acetone
 Concen: 2.49 ug/L
 RT: 3.238 min Scan# 353
 Delta R.T. 0.006 min
 Lab File: V04211104N08.D
 Acq: 4 Nov 2021 8:56 pm

Tgt Ion:	43	Resp:	3040
Ion Ratio	100	Lower	Upper
58	24.4	23.2	34.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04211104N08.D Method : V104_210707N_8260.m
Date Inj'd : 11/4/2021 8:56 pm Operator : VOA104:NLK
Sample : L2159682-06,31,4.53,5,,Y Instrument : VOA104
Quant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N09.D
 Acq On : 4 Nov 2021 9:21 pm
 Operator : VOA104:NLK
 Sample : L2159682-07,31,4.41,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 08:42:50 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	205415	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	77.28%		
59) Chlorobenzene-d5	9.063	117	180348	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	96.45%		
79) 1,4-Dichlorobenzene-d4	11.857	152	104890	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	105.49%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	67813	21.673	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.36%		
43) 1,2-Dichloroethane-d4	5.309	65	62194	20.968	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.84%		
60) Toluene-d8	7.238	98	222789	19.619	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.09%		
83) 4-Bromofluorobenzene	10.604	95	82682	17.020	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	85.10%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.681	50	119	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.995	94	43	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1906	0.207	ug/L	# 80
15) Methylene chloride	3.191	84	2035	Below Cal	#	65
17) Acetone	3.227	43	54544	94.193	ug/L	93
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.638	83	399	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N09.D
 Acq On : 4 Nov 2021 9:21 pm
 Operator : VOA104:NLK
 Sample : L2159682-07,31,4.41,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 08:42:50 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.306	92	686		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	7.736	166	1149	0.325	ug/L	84
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.057	91	110		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	10.033	104	47		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.604	91	104		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	11.354	119	53		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N09.D
 Acq On : 4 Nov 2021 9:21 pm
 Operator : VOA104:NLK
 Sample : L2159682-07,31,4.41,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 08:42:50 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.454	105	100		N.D.	
98)	sec-Butylbenzene	11.558	105	49		N.D.	
99)	p-Isopropyltoluene	11.710	119	49		N.D.	
100)	1,3-Dichlorobenzene	11.868	146	123		N.D.	
101)	1,4-Dichlorobenzene	11.868	146	123		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	12.167	91	53		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	12.911	119	110		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.044	128	500		N.D.	
111)	1,2,3-Trichlorobenzene	14.206	180	120		N.D.	

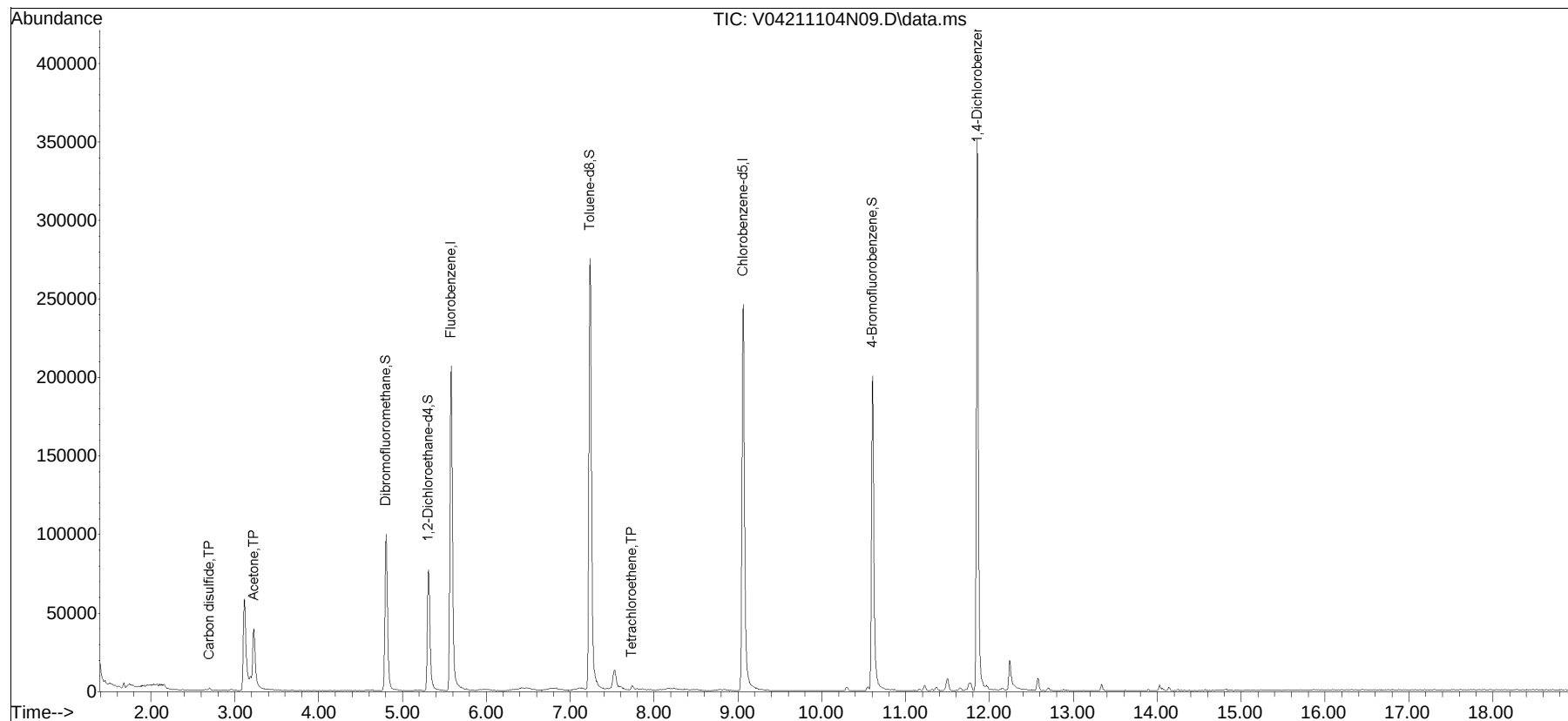
(#) = qualifier out of range (m) = manual integration (+) = signals summed

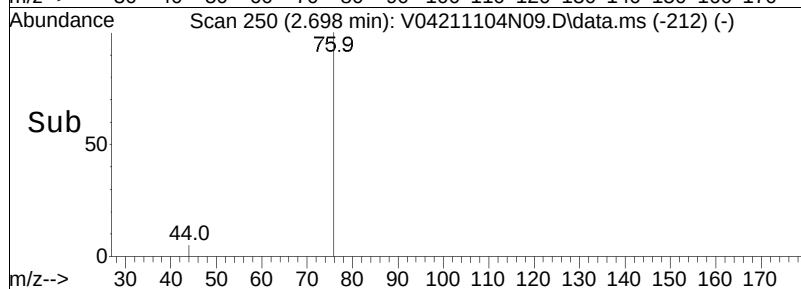
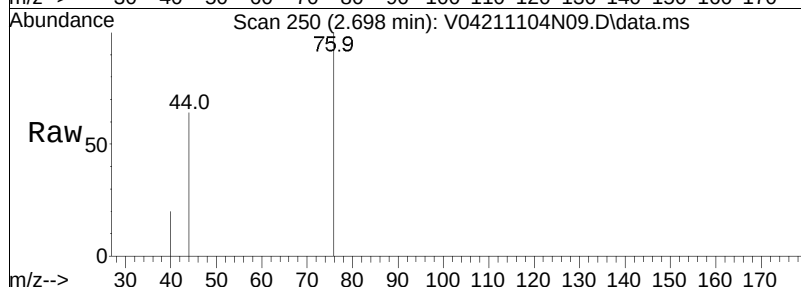
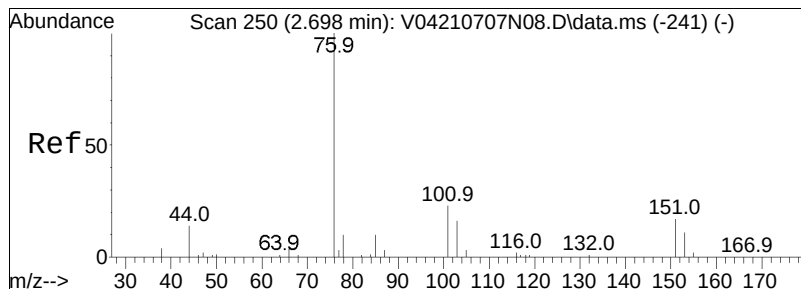
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N09.D
 Acq On : 4 Nov 2021 9:21 pm
 Operator : VOA104:NLK
 Sample : L2159682-07,31,4.41,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 05 08:42:50 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

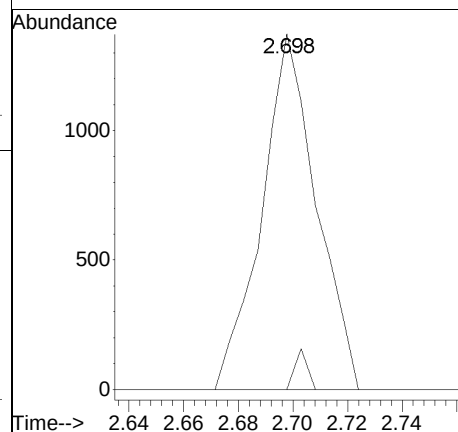
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

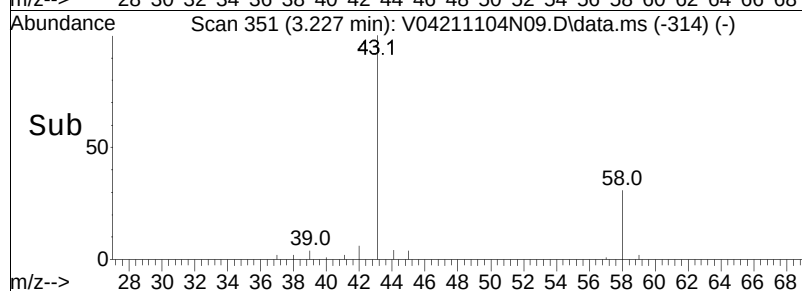
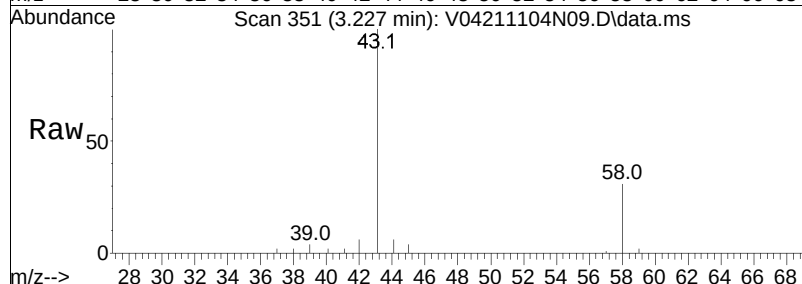
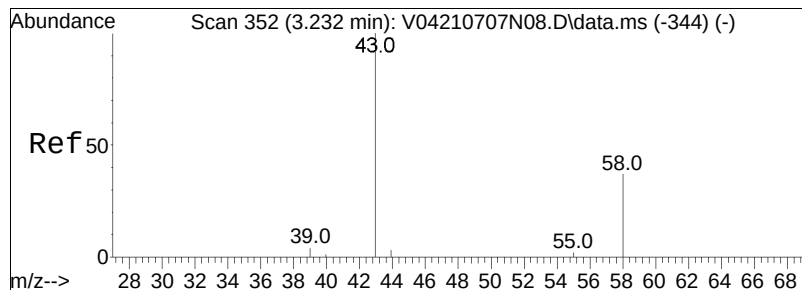




#11
 Carbon disulfide
 Concen: 0.21 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N09.D
 Acq: 4 Nov 2021 9:21 pm

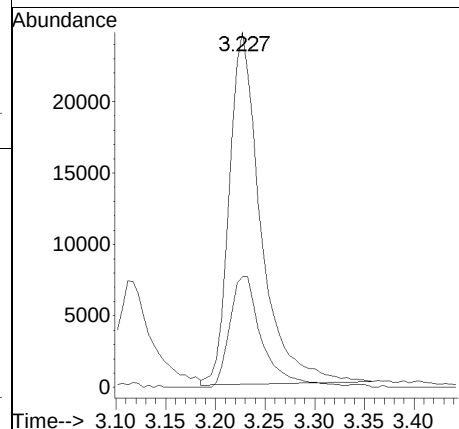
Tgt Ion	Ratio	Lower	Upper
76	100		
78	2.6	6.6	13.8#

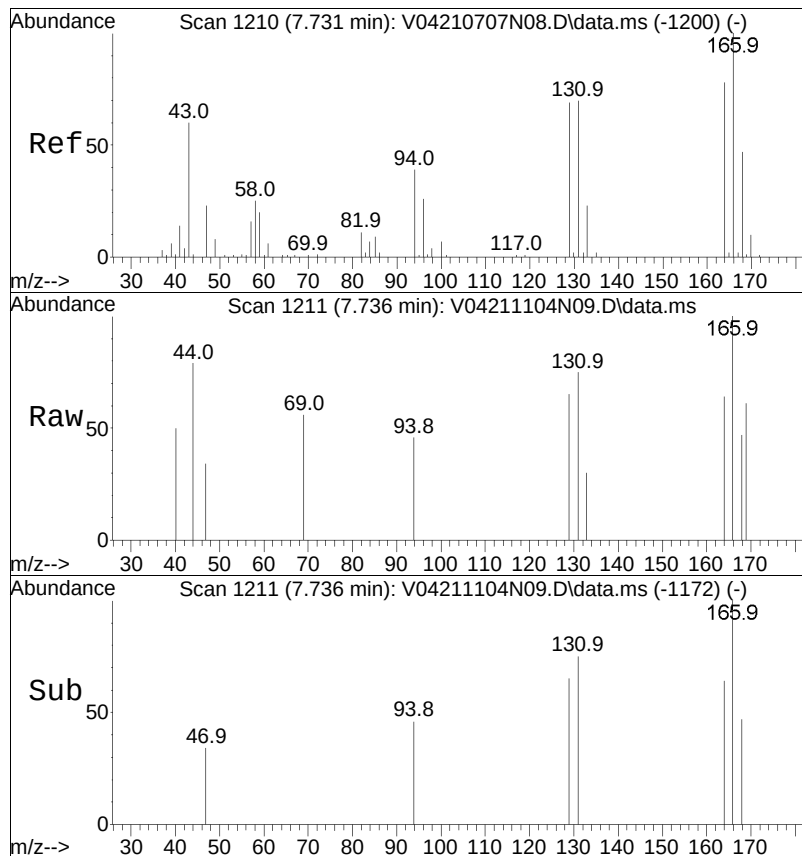




#17
Acetone
Concen: 94.19 ug/L
RT: 3.227 min Scan# 351
Delta R.T. -0.005 min
Lab File: V04211104N09.D
Acq: 4 Nov 2021 9:21 pm

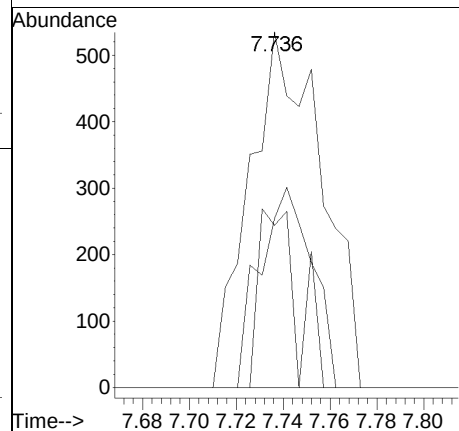
Tgt Ion:	43	58	Ratio	100	32.6	Resp:	54544	Lower	Upper
Ion	43	58	Ratio	100	32.6	Resp:	54544	Lower	Upper





#63
 Tetrachloroethene
 Concen: 0.33 ug/L
 RT: 7.736 min Scan# 1211
 Delta R.T. 0.005 min
 Lab File: V04211104N09.D
 Acq: 4 Nov 2021 9:21 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
168	40.9	27.6	67.6
94	26.9	20.9	60.9



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N09.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 9:21 pm Instrument : VOA104
Sample : L2159682-07,31,4.41,5,,Y,PQuant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N10.D
 Acq On : 4 Nov 2021 9:46 pm
 Operator : VOA104:NLK
 Sample : L2159682-08,31,3.76,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 08:42:55 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	198521	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	74.69%		
59) Chlorobenzene-d5	9.063	117	175502	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	93.86%		
79) 1,4-Dichlorobenzene-d4	11.852	152	101504	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	102.09%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	65857	21.779	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.90%		
43) 1,2-Dichloroethane-d4	5.309	65	57243	19.969	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.84%		
60) Toluene-d8	7.238	98	219800	19.890	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.45%		
83) 4-Bromofluorobenzene	10.604	95	81105	17.253	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	86.27%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	200	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.005	94	183	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.703	76	2211	0.248	ug/L	# 73
15) Methylene chloride	3.185	84	1442	Below Cal		79
17) Acetone	3.232	43	8849	13.555	ug/L	98
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.637	83	578	0.109	ug/L	# 70

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N10.D
 Acq On : 4 Nov 2021 9:46 pm
 Operator : VOA104:NLK
 Sample : L2159682-08,31,3.76,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 08:42:55 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	4.989	43	61	Below Cal	#	42
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.285	92	102	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	7.741	166	1890	0.550 ug/L		99
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.057	91	179	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	10.604	91	98	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N10.D
 Acq On : 4 Nov 2021 9:46 pm
 Operator : VOA104:NLK
 Sample : L2159682-08,31,3.76,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 08:42:55 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	11.553	105	48		N.D.	
98)	sec-Butylbenzene	11.553	105	48		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	12.916	119	99		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.059	128	415		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

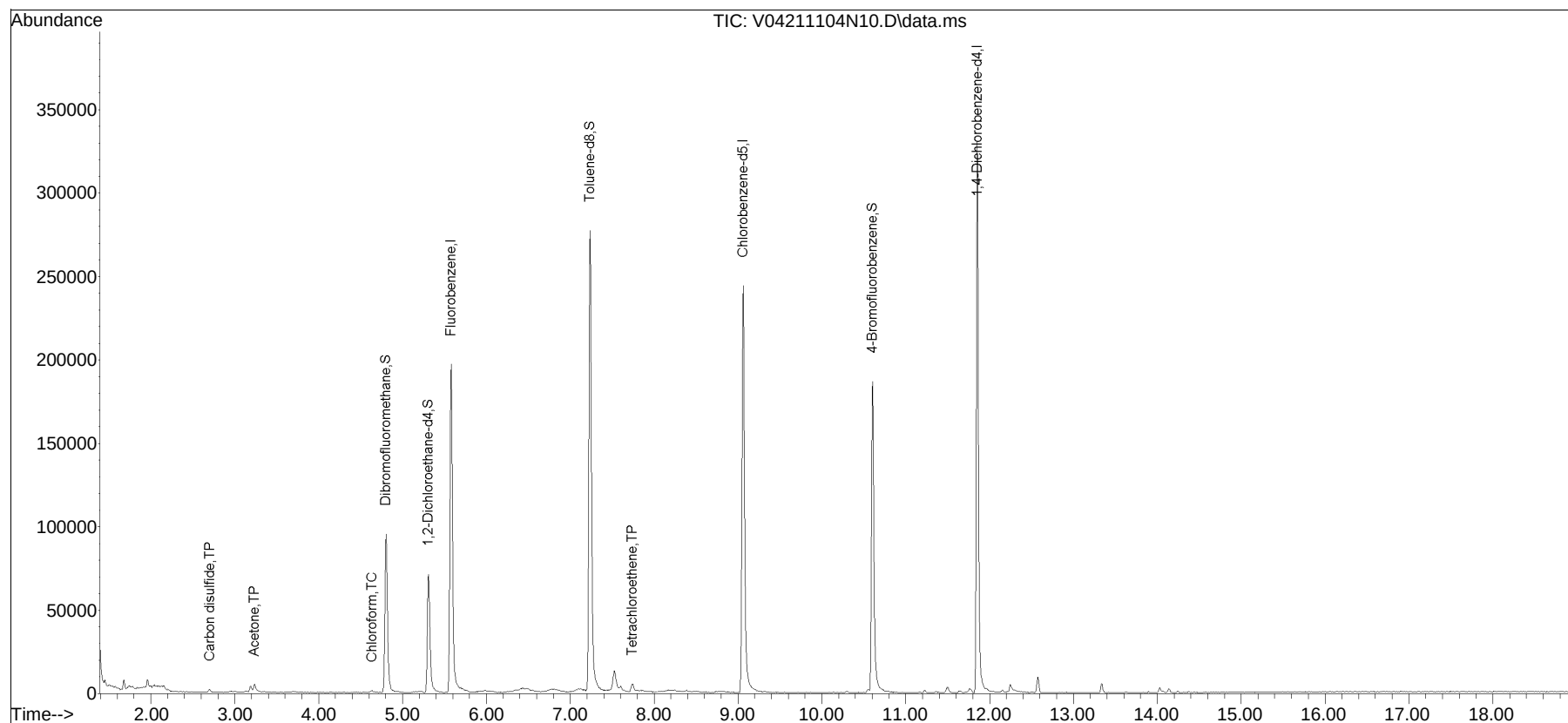
(#) = qualifier out of range (m) = manual integration (+) = signals summed

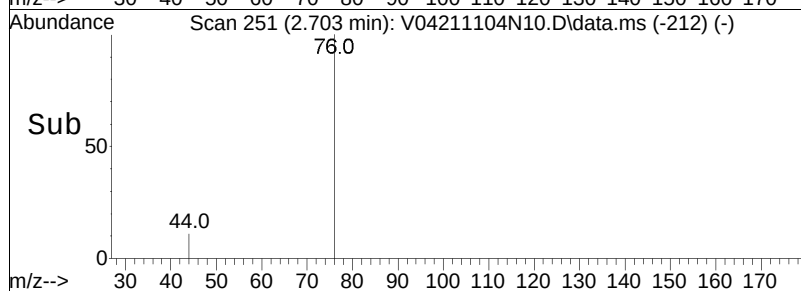
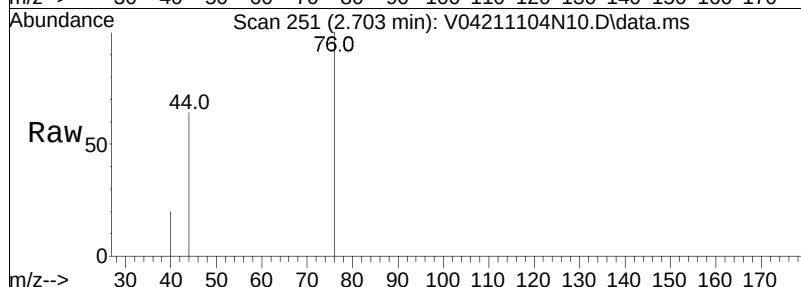
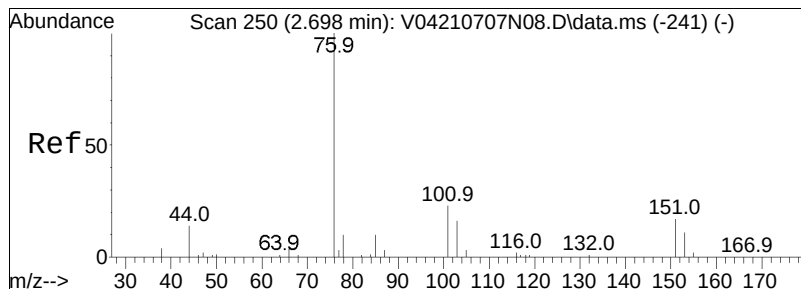
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N10.D
 Acq On : 4 Nov 2021 9:46 pm
 Operator : VOA104:NLK
 Sample : L2159682-08,31,3.76,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 05 08:42:55 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

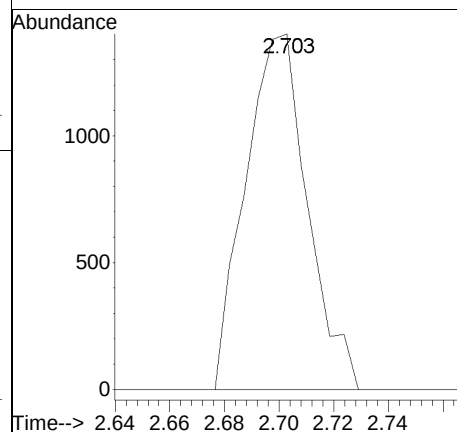
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

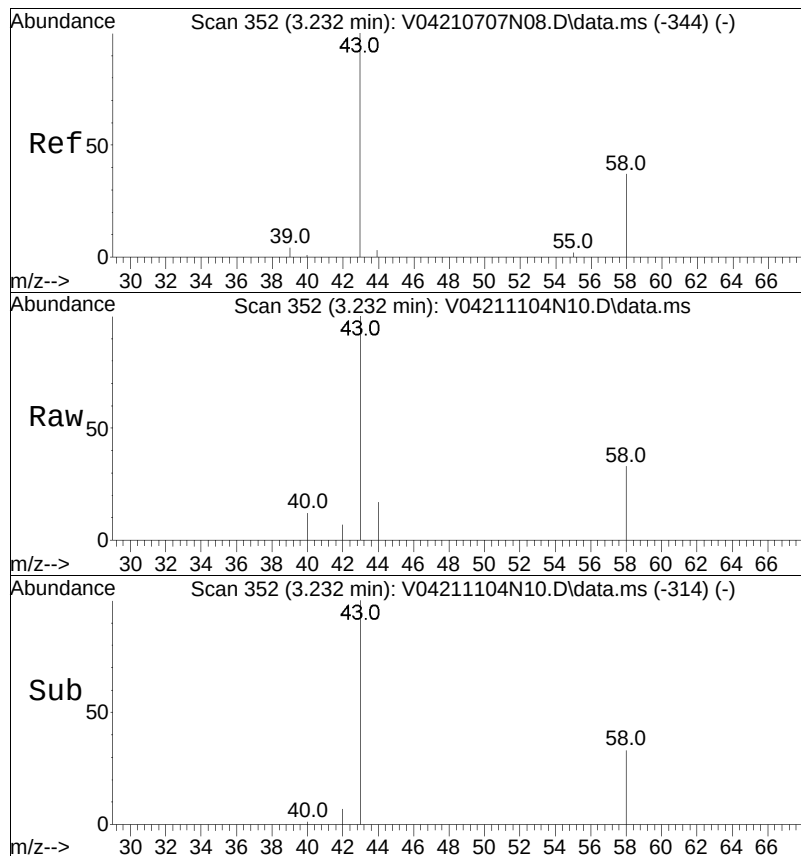




#11
Carbon disulfide
Concen: 0.25 ug/L
RT: 2.703 min Scan# 251
Delta R.T. 0.005 min
Lab File: V04211104N10.D
Acq: 4 Nov 2021 9:46 pm

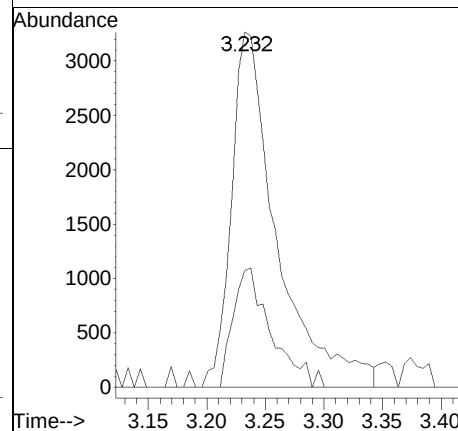
Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.6	13.8#

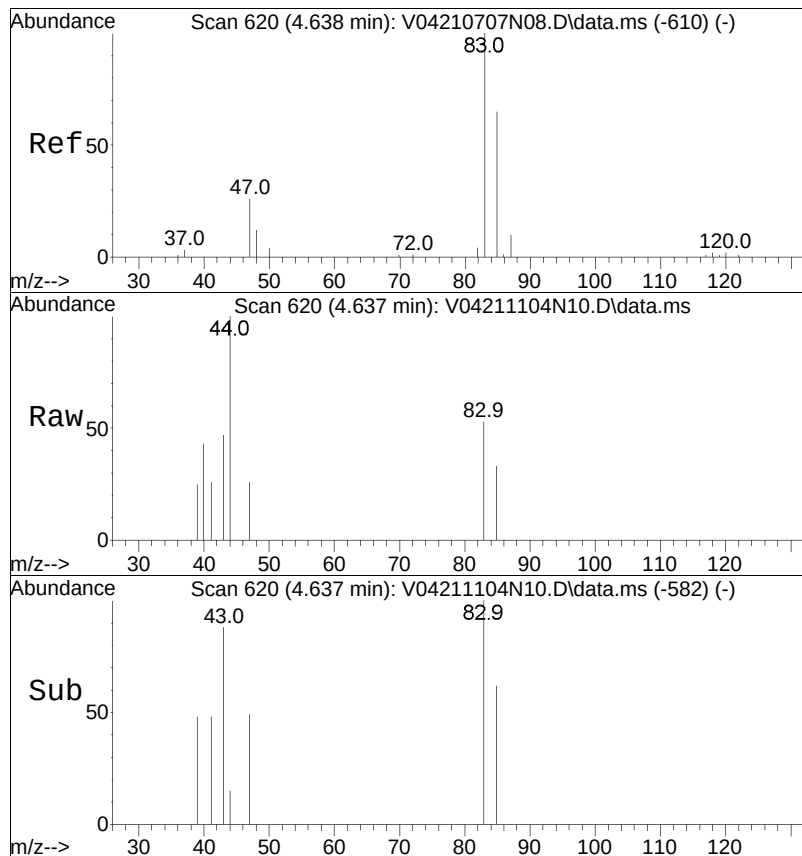




#17
 Acetone
 Concen: 13.55 ug/L
 RT: 3.232 min Scan# 352
 Delta R.T. 0.000 min
 Lab File: V04211104N10.D
 Acq: 4 Nov 2021 9:46 pm

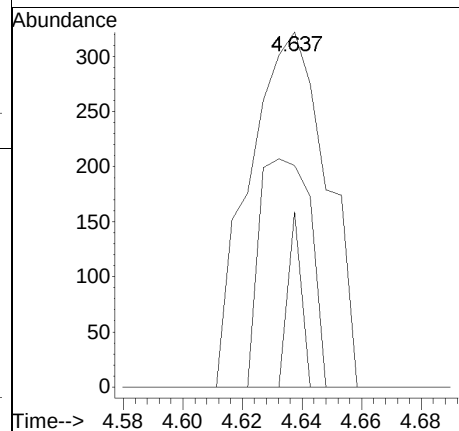
Tgt Ion: 43 Resp: 8849
 Ion Ratio Lower Upper
 43 100
 58 28.1 23.2 34.8

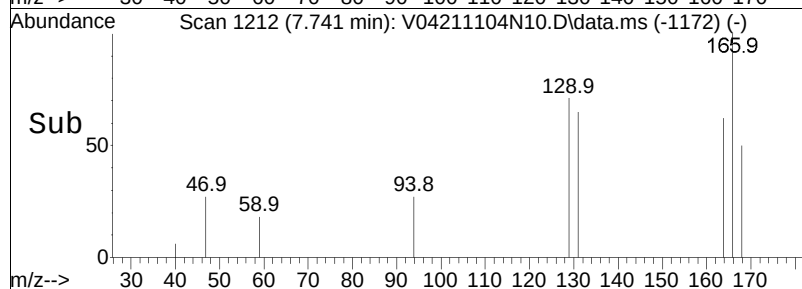
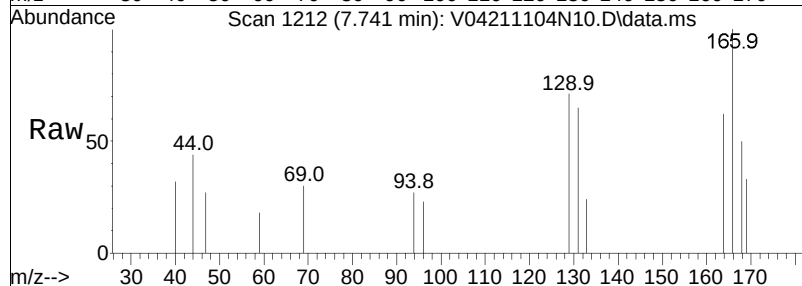
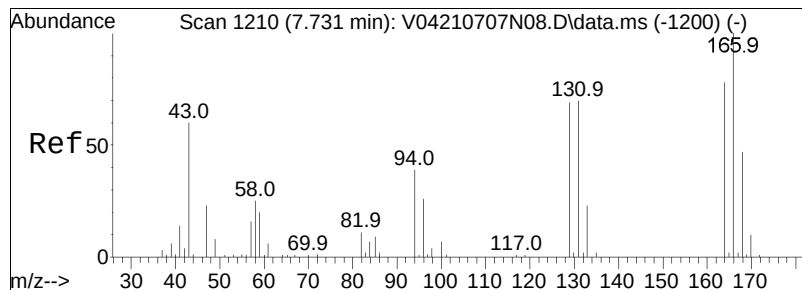




#32
 Chloroform
 Concen: 0.11 ug/L
 RT: 4.637 min Scan# 620
 Delta R.T. -0.001 min
 Lab File: V04211104N10.D
 Acq: 4 Nov 2021 9:46 pm

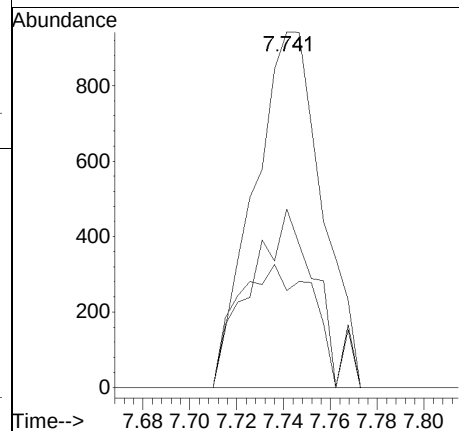
Tgt Ion:	83	Resp:	578
Ion Ratio	Lower	Upper	
83	100		
85	42.4	41.9	87.1
47	8.7	16.7	34.7#
48	0.0	7.9	16.3#





#63
Tetrachloroethene
Concen: 0.55 ug/L
RT: 7.741 min Scan# 1212
Delta R.T. 0.010 min
Lab File: V04211104N10.D
Acq: 4 Nov 2021 9:46 pm

Tgt Ion:	166	Resp:	1890
Ion Ratio	Lower	Upper	
166	100		
168	49.1	27.6	67.6
94	40.7	20.9	60.9



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N10.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 9:46 pm Instrument : VOA104
Sample : L2159682-08,31,3.76,5,,Y,PQuant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N11.D
 Acq On : 4 Nov 2021 10:11 pm
 Operator : VOA104:NLK
 Sample : L2159682-09,31,5.74,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 08:43:00 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	194631	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery = 73.22%			
59) Chlorobenzene-d5	9.063	117	174536	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery = 93.34%			
79) 1,4-Dichlorobenzene-d4	11.852	152	100287	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery = 100.86%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	64232	21.666	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.33%			
43) 1,2-Dichloroethane-d4	5.309	65	57355	20.407	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.04%			
60) Toluene-d8	7.238	98	223249	20.314	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.57%			
83) 4-Bromofluorobenzene	10.604	95	79340	17.082	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 85.41%			
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.995	94	214	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1718	0.197	ug/L	91
15) Methylene chloride	3.191	84	1958	Below Cal		79
17) Acetone	3.238	43	2245	1.497	ug/L	# 76
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	350	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N11.D
 Acq On : 4 Nov 2021 10:11 pm
 Operator : VOA104:NLK
 Sample : L2159682-09,31,5.74,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 08:43:00 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.301	92	302		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	7.747	166	430	0.126	ug/L #	40
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	51		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N11.D
 Acq On : 4 Nov 2021 10:11 pm
 Operator : VOA104:NLK
 Sample : L2159682-09,31,5.74,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 08:43:00 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	11.873	146	53		N.D.	
101)	1,4-Dichlorobenzene	11.873	146	53		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.054	128	350		N.D.	
111)	1,2,3-Trichlorobenzene	14.206	180	52		N.D.	

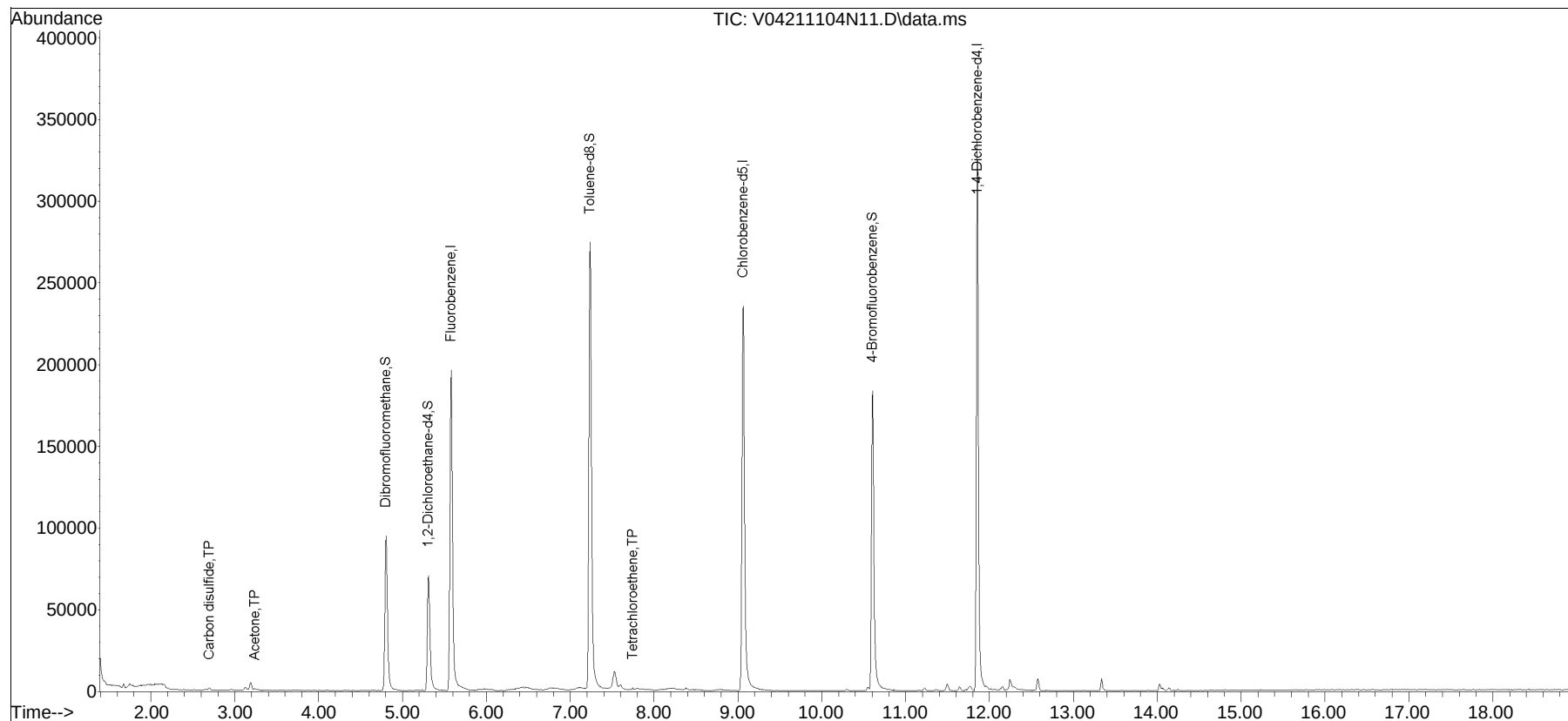
(#) = qualifier out of range (m) = manual integration (+) = signals summed

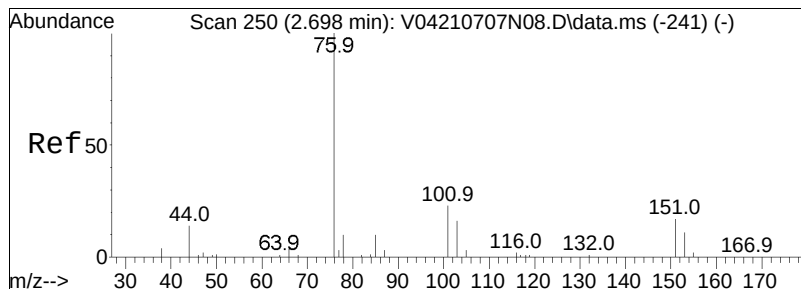
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N11.D
 Acq On : 4 Nov 2021 10:11 pm
 Operator : VOA104:NLK
 Sample : L2159682-09,31,5.74,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 05 08:43:00 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

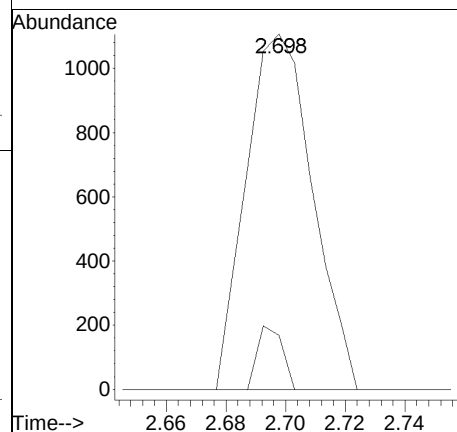
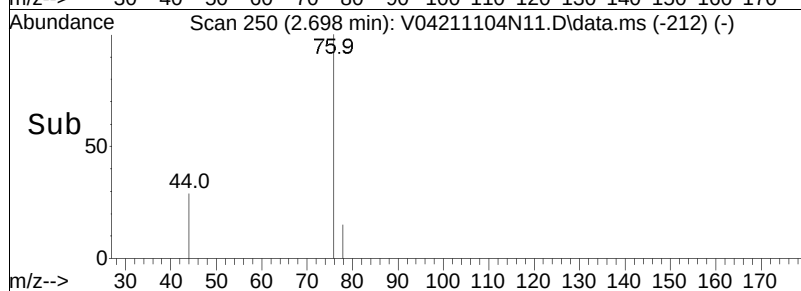
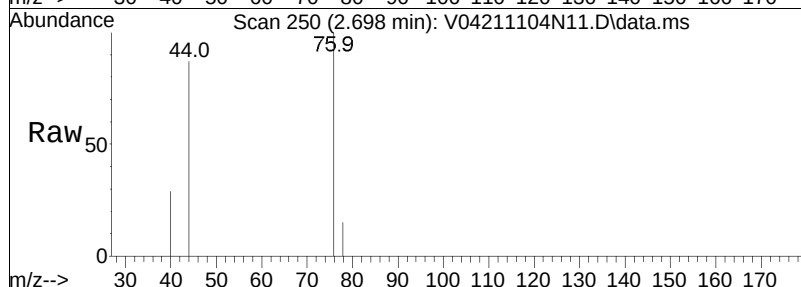
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

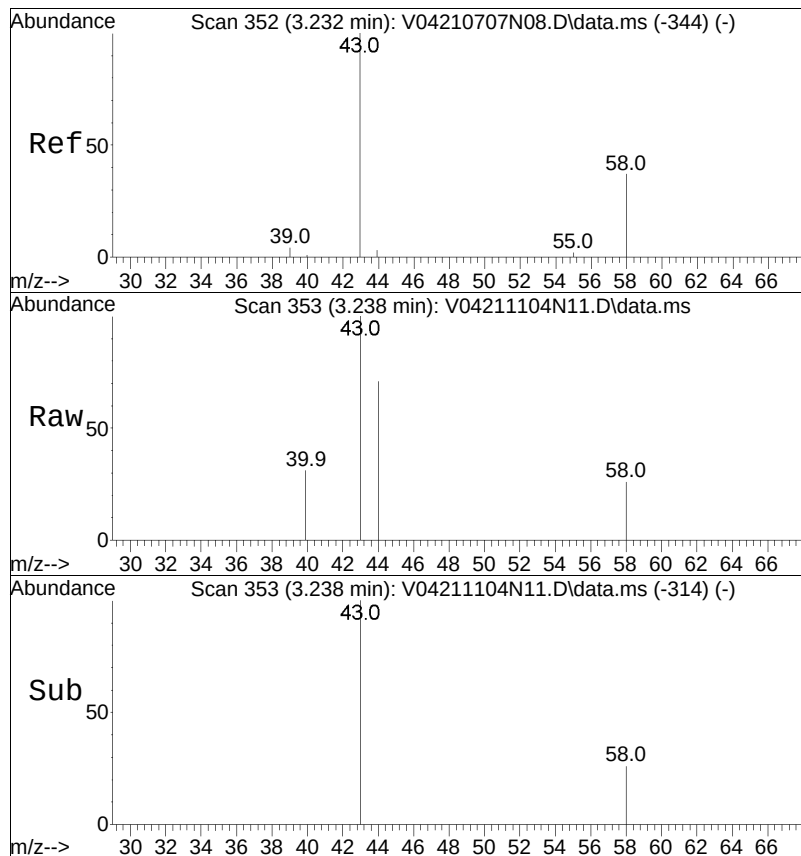




#11
 Carbon disulfide
 Concen: 0.20 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N11.D
 Acq: 4 Nov 2021 10:11 pm

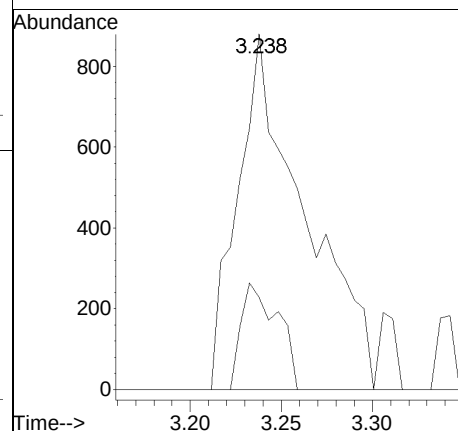
Tgt Ion: 76 Resp: 1718
 Ion Ratio Lower Upper
 76 100
 78 6.7 6.6 13.8

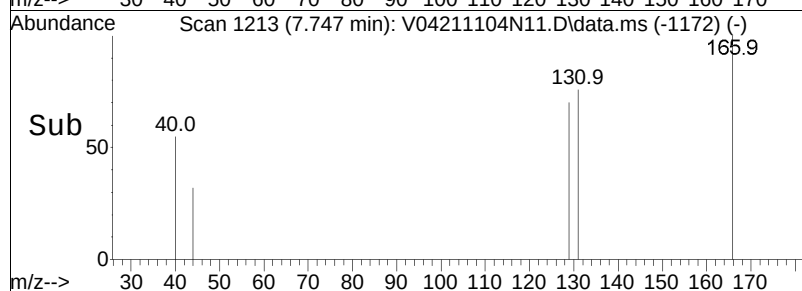
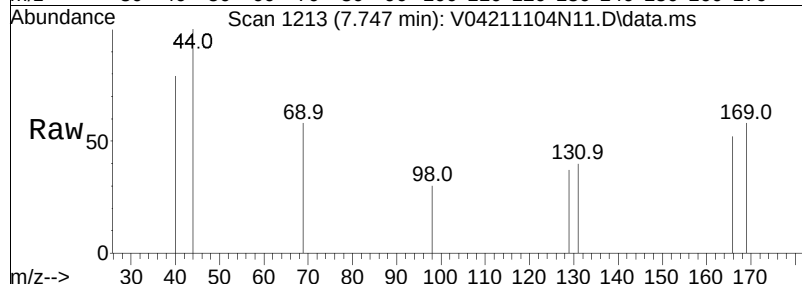
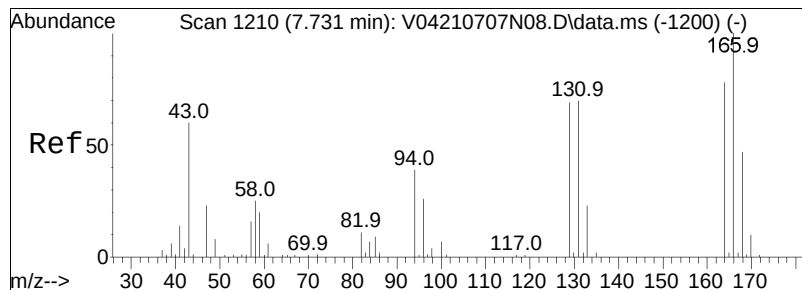




#17
 Acetone
 Concen: 1.50 ug/L
 RT: 3.238 min Scan# 353
 Delta R.T. 0.006 min
 Lab File: V04211104N11.D
 Acq: 4 Nov 2021 10:11 pm

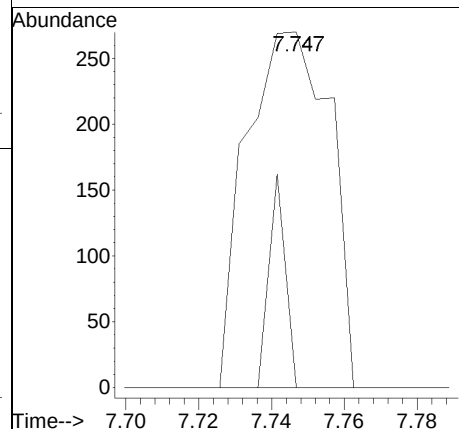
Tgt Ion: 43 Resp: 2245
 Ion Ratio Lower Upper
 43 100
 58 16.4 23.2 34.8#





#63
Tetrachloroethene
Concen: 0.13 ug/L
RT: 7.747 min Scan# 1213
Delta R.T. 0.016 min
Lab File: V04211104N11.D
Acq: 4 Nov 2021 10:11 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
168	0.0	27.6	67.6#
94	11.9	20.9	60.9#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N11.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 10:11 pm Instrument : VOA104
Sample : L2159682-09,31,5.74,5,,Y,PQuant Date : 11/5/2021 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N12.D
 Acq On : 4 Nov 2021 10:36 pm
 Operator : VOA104:NLK
 Sample : L2159682-10,31,3.30,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 05 08:43:05 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	208308	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	78.37%		
59) Chlorobenzene-d5	9.063	117	180922	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	96.76%		
79) 1,4-Dichlorobenzene-d4	11.852	152	102819	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	103.41%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	67656	21.322	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.61%		
43) 1,2-Dichloroethane-d4	5.314	65	61476	20.438	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.19%		
60) Toluene-d8	7.238	98	226355	19.869	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.34%		
83) 4-Bromofluorobenzene	10.604	95	83038	17.438	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	87.19%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.686	50	60	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.995	94	149	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1827	0.196	ug/L #	80
15) Methylene chloride	3.190	84	1513	Below Cal		74
17) Acetone	3.243	43	2347	1.399	ug/L #	68
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	334	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N12.D
 Acq On : 4 Nov 2021 10:36 pm
 Operator : VOA104:NLK
 Sample : L2159682-10,31,3.30,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 05 08:43:05 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.681	95	113		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.301	92	369		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	157		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N12.D
 Acq On : 4 Nov 2021 10:36 pm
 Operator : VOA104:NLK
 Sample : L2159682-10,31,3.30,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 05 08:43:05 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.064	128	287		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

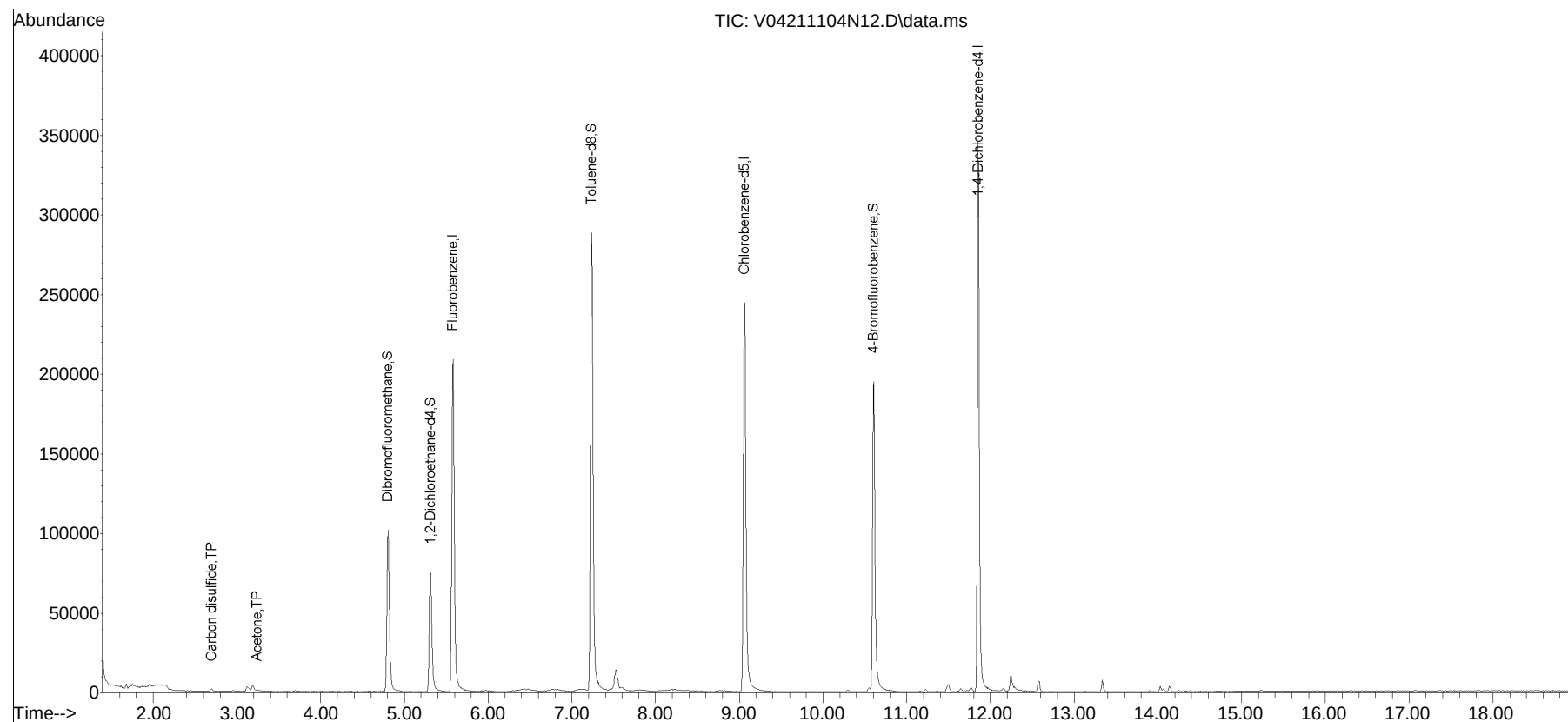
(#) = qualifier out of range (m) = manual integration (+) = signals summed

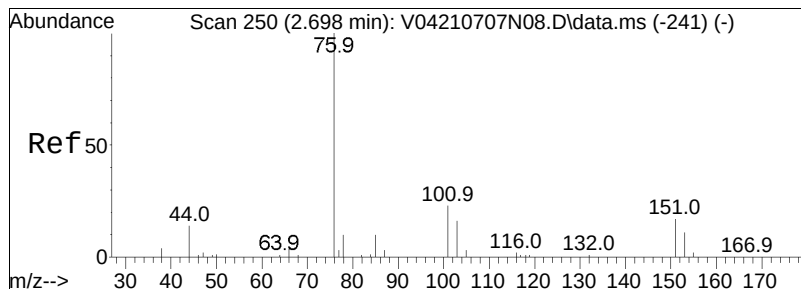
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N12.D
 Acq On : 4 Nov 2021 10:36 pm
 Operator : VOA104:NLK
 Sample : L2159682-10,31,3.30,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 05 08:43:05 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

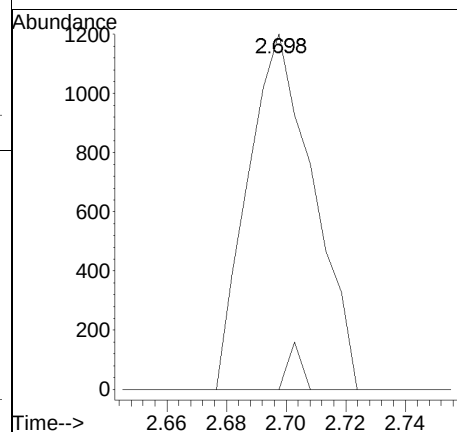
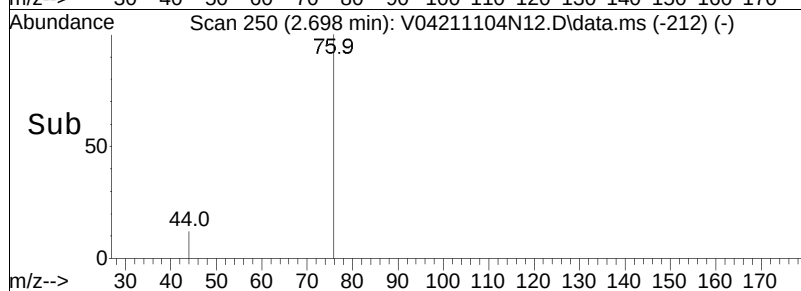
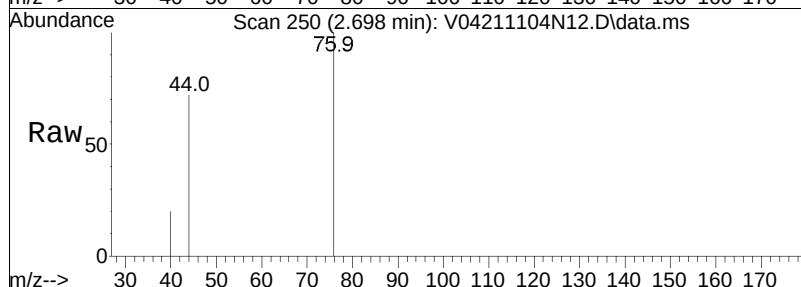
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

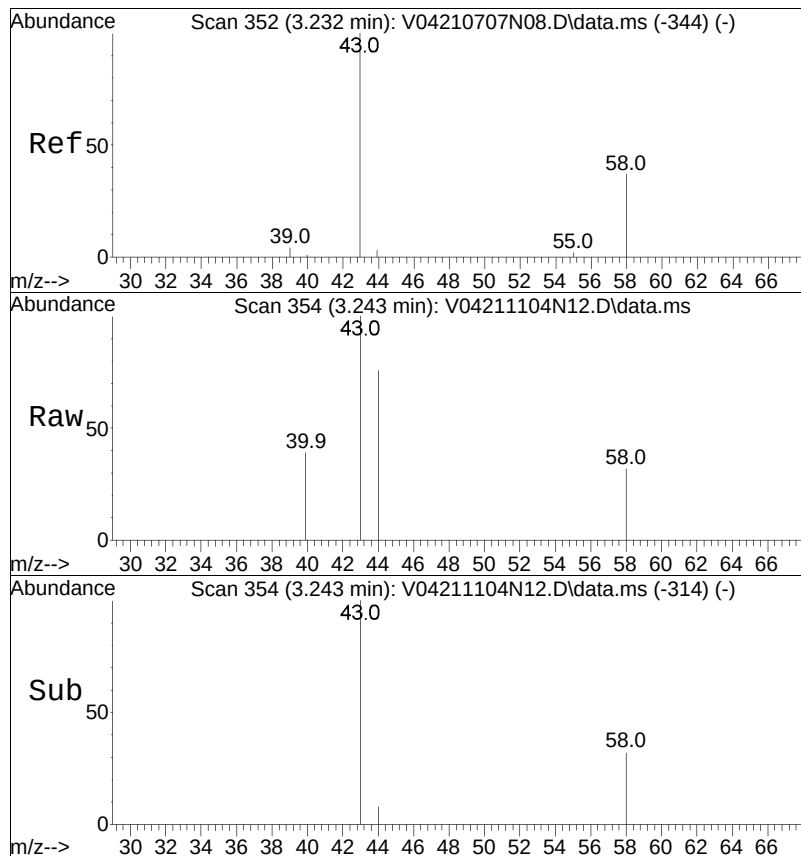




#11
 Carbon disulfide
 Concen: 0.20 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N12.D
 Acq: 4 Nov 2021 10:36 pm

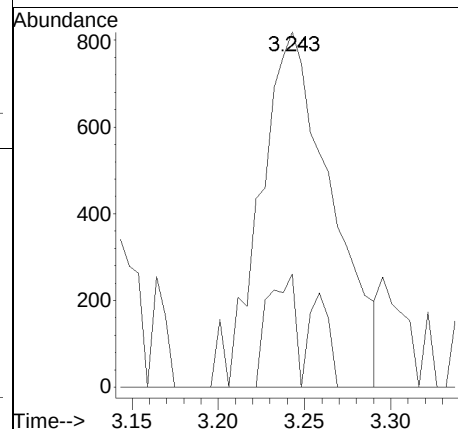
Tgt Ion: 76 Resp: 1827
 Ion Ratio Lower Upper
 76 100
 78 2.7 6.6 13.8#





#17
 Acetone
 Concen: 1.40 ug/L
 RT: 3.243 min Scan# 354
 Delta R.T. 0.011 min
 Lab File: V04211104N12.D
 Acq: 4 Nov 2021 10:36 pm

Tgt Ion: 43 Resp: 2347
 Ion Ratio Lower Upper
 43 100
 58 12.1 23.2 34.8#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N12.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 10:36 pm Instrument : VOA104
Sample : L2159682-10,31,3.30,5,,Y,PQuant Date : 11/5/2021 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N13.D
 Acq On : 4 Nov 2021 11:02 pm
 Operator : VOA104:NLK
 Sample : L2159682-11,31,2.29,5,,Z,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 08:43:11 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	198761	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	74.78%		
59) Chlorobenzene-d5	9.063	117	173316	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	92.69%		
79) 1,4-Dichlorobenzene-d4	11.852	152	97569	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	98.13%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	65806	21.736	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.68%		
43) 1,2-Dichloroethane-d4	5.309	65	58638	20.430	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.15%		
60) Toluene-d8	7.238	98	215756	19.770	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.85%		
83) 4-Bromofluorobenzene	10.604	95	81021	17.930	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	89.65%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	103	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.021	94	115	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.692	76	1896	0.213	ug/L	# 73
15) Methylene chloride	3.185	84	1341	Below Cal		79
17) Acetone	3.243	43	2513	1.902	ug/L	# 76
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	278	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N13.D
 Acq On : 4 Nov 2021 11:02 pm
 Operator : VOA104:NLK
 Sample : L2159682-11,31,2.29,5,,Z,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 08:43:11 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.285	92	59		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	111		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N13.D
 Acq On : 4 Nov 2021 11:02 pm
 Operator : VOA104:NLK
 Sample : L2159682-11,31,2.29,5,,Z,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 08:43:11 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.044	128	53		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

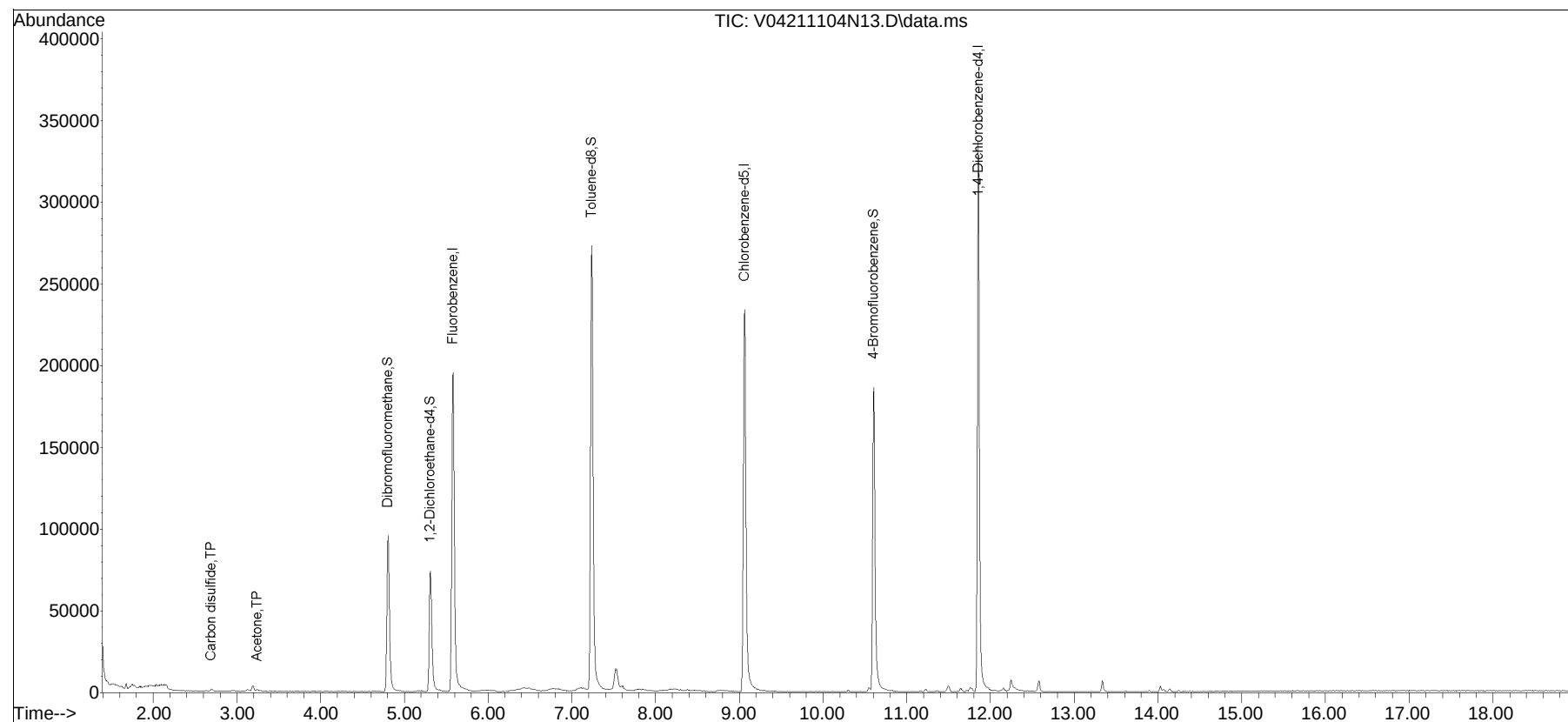
(#) = qualifier out of range (m) = manual integration (+) = signals summed

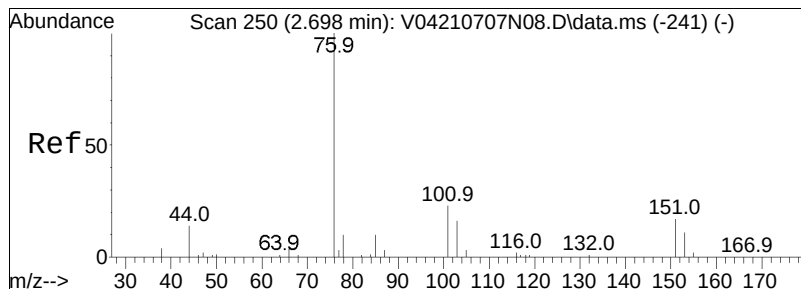
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N13.D
 Acq On : 4 Nov 2021 11:02 pm
 Operator : VOA104:NLK
 Sample : L2159682-11,31,2.29,5,,Z,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 05 08:43:11 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

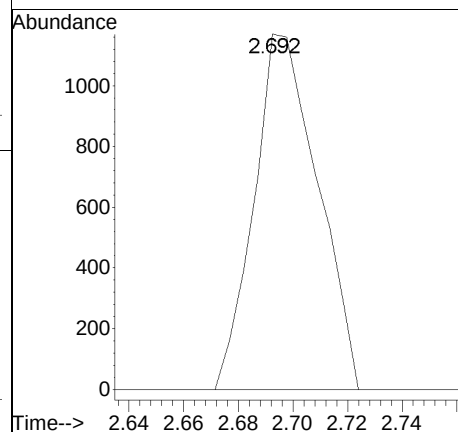
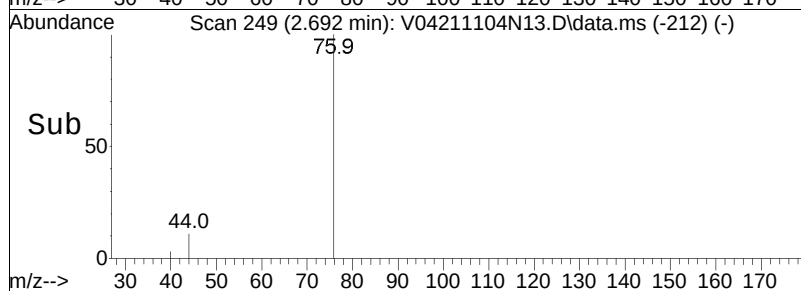
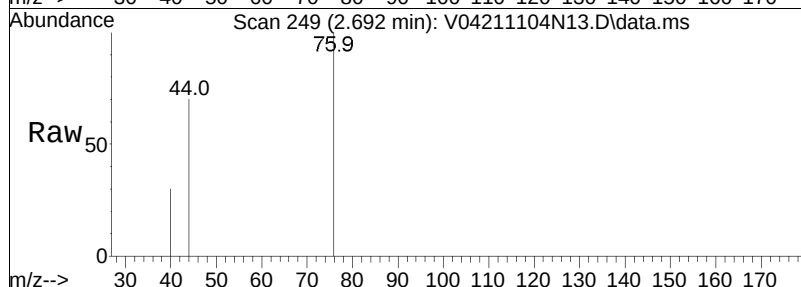
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

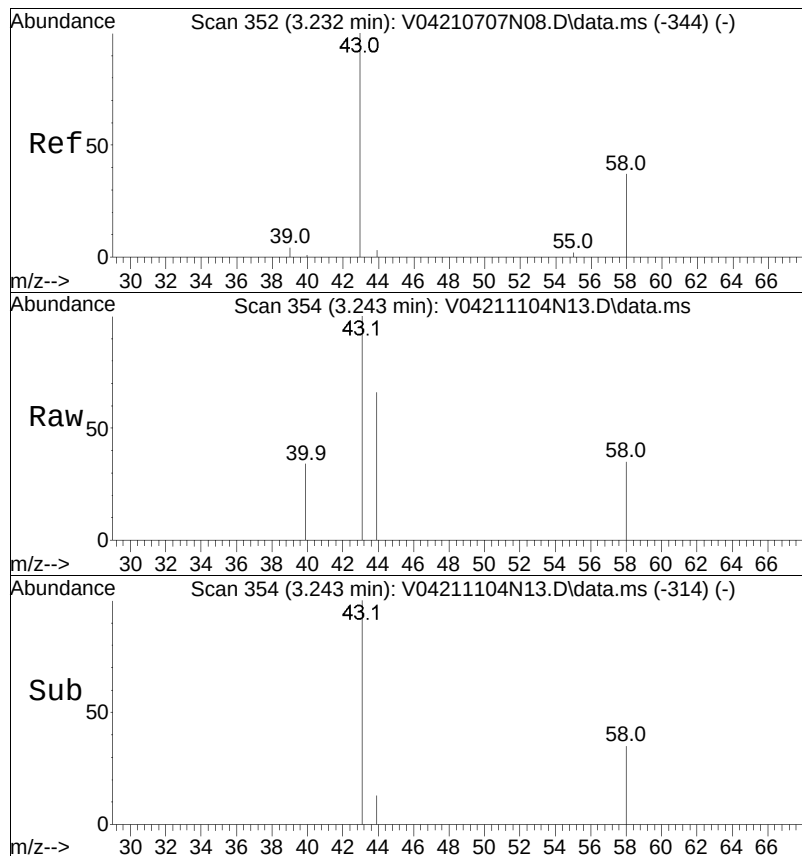




#11
 Carbon disulfide
 Concen: 0.21 ug/L
 RT: 2.692 min Scan# 249
 Delta R.T. -0.006 min
 Lab File: V04211104N13.D
 Acq: 4 Nov 2021 11:02 pm

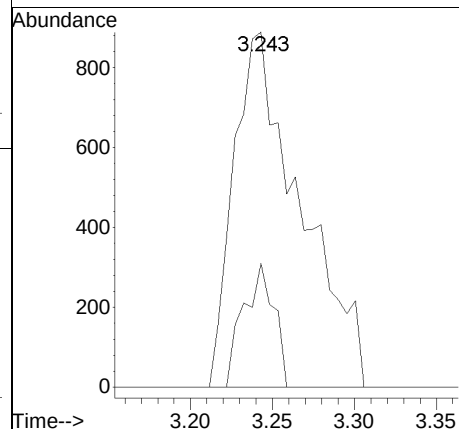
Tgt Ion: 76 Resp: 1896
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.6 13.8#





#17
 Acetone
 Concen: 1.90 ug/L
 RT: 3.243 min Scan# 354
 Delta R.T. 0.011 min
 Lab File: V04211104N13.D
 Acq: 4 Nov 2021 11:02 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.0	23.2	34.8#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N13.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 11:02 pm Instrument : VOA104
Sample : L2159682-11,31,2.29,5,,Z,PQuant Date : 11/5/2021 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N14.D
 Acq On : 4 Nov 2021 11:27 pm
 Operator : VOA104:NLK
 Sample : L2159682-12,31,2.14,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 08:43:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	200222	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery	=	75.33%	
59) Chlorobenzene-d5	9.063	117	176857	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery	=	94.58%	
79) 1,4-Dichlorobenzene-d4	11.852	152	100653	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery	=	101.23%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	66701	21.870	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	109.35%	
43) 1,2-Dichloroethane-d4	5.314	65	57902	20.027	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.13%	
60) Toluene-d8	7.238	98	220060	19.761	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.80%	
83) 4-Bromofluorobenzene	10.604	95	81545	17.493	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	87.46%	
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	58	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.027	94	233	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1888	0.210	ug/L #	73
15) Methylene chloride	3.185	84	1340	Below Cal		75
17) Acetone	3.243	43	1842	0.645	ug/L #	79
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.638	83	226	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N14.D
 Acq On : 4 Nov 2021 11:27 pm
 Operator : VOA104:NLK
 Sample : L2159682-12,31,2.14,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 08:43:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.296	92	102		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.057	91	153		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.604	91	55		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N14.D
 Acq On : 4 Nov 2021 11:27 pm
 Operator : VOA104:NLK
 Sample : L2159682-12,31,2.14,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 08:43:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.059	128	166		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

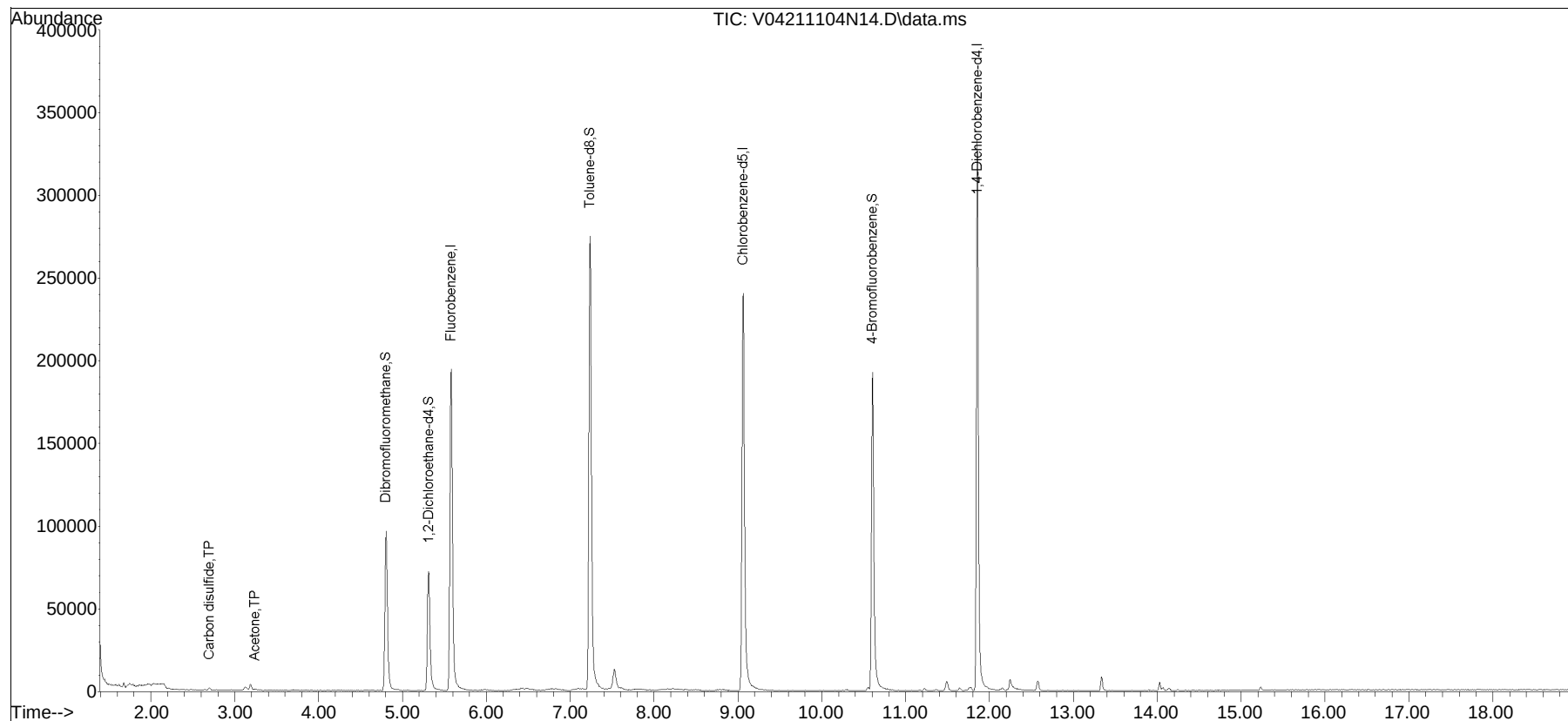
(#) = qualifier out of range (m) = manual integration (+) = signals summed

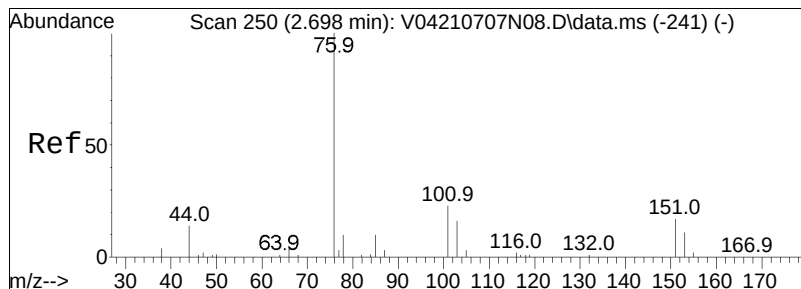
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N14.D
 Acq On : 4 Nov 2021 11:27 pm
 Operator : VOA104:NLK
 Sample : L2159682-12,31,2.14,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 05 08:43:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

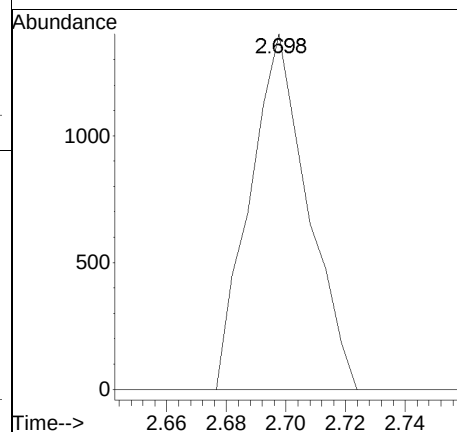
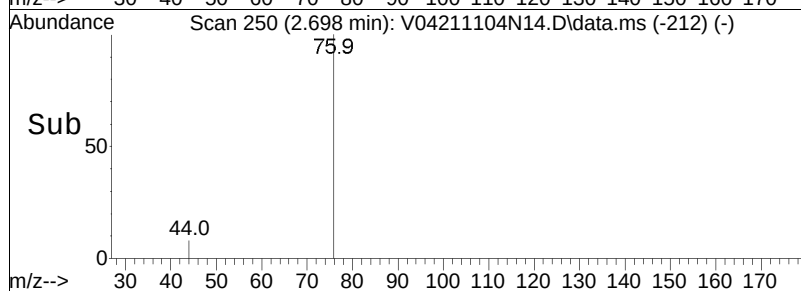
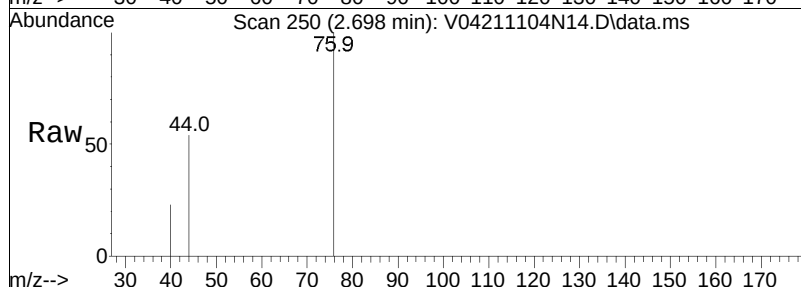
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

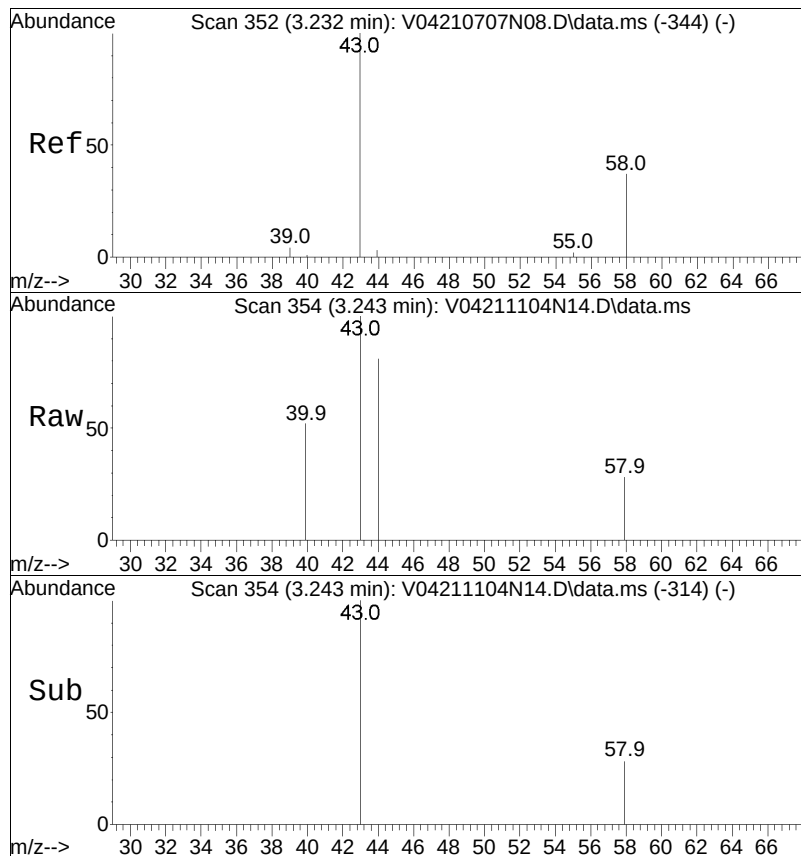




#11
 Carbon disulfide
 Concen: 0.21 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N14.D
 Acq: 4 Nov 2021 11:27 pm

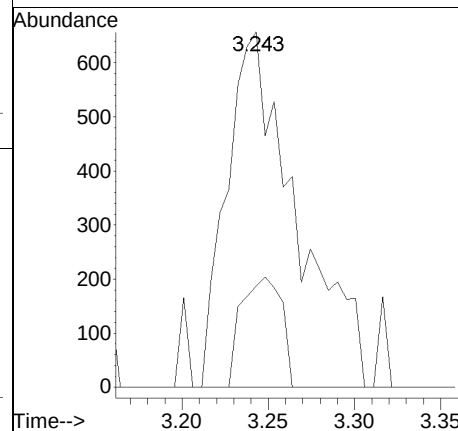
Tgt Ion:	76	Resp:	1888
Ion Ratio	Lower	Upper	
76	100		
78	0.0	6.6	13.8#





#17
Acetone
Concen: 0.64 ug/L
RT: 3.243 min Scan# 354
Delta R.T. 0.011 min
Lab File: V04211104N14.D
Acq: 4 Nov 2021 11:27 pm

Tgt Ion: 43 Resp: 1842
Ion Ratio Lower Upper
43 100
58 17.9 23.2 34.8#



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N14.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 11:27 pm Instrument : VOA104
Sample : L2159682-12,31,2.14,5,,Y,PQuant Date : 11/5/2021 8:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N15.D
 Acq On : 4 Nov 2021 11:52 pm
 Operator : VOA104:NLK
 Sample : L2159682-15,31,3.16,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 08:51:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	197930	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	74.46%		
59) Chlorobenzene-d5	9.063	117	179488	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	95.99%		
79) 1,4-Dichlorobenzene-d4	11.852	152	101657	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	102.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	66684	22.118	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	110.59%		
43) 1,2-Dichloroethane-d4	5.308	65	58608	20.506	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.53%		
60) Toluene-d8	7.238	98	224032	19.823	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.11%		
83) 4-Bromofluorobenzene	10.604	95	82746	17.575	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	87.87%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	164	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.016	94	65	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.697	76	1820	0.205 ug/L	#	81
15) Methylene chloride	3.185	84	1529	Below Cal		77
17) Acetone	3.248	43	192	Below Cal	#	46
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	379	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N15.D
 Acq On : 4 Nov 2021 11:52 pm
 Operator : VOA104:NLK
 Sample : L2159682-15,31,3.16,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 08:51:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.301	92	330		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.068	91	57		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N15.D
 Acq On : 4 Nov 2021 11:52 pm
 Operator : VOA104:NLK
 Sample : L2159682-15,31,3.16,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 08:51:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	14.054	128	124		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

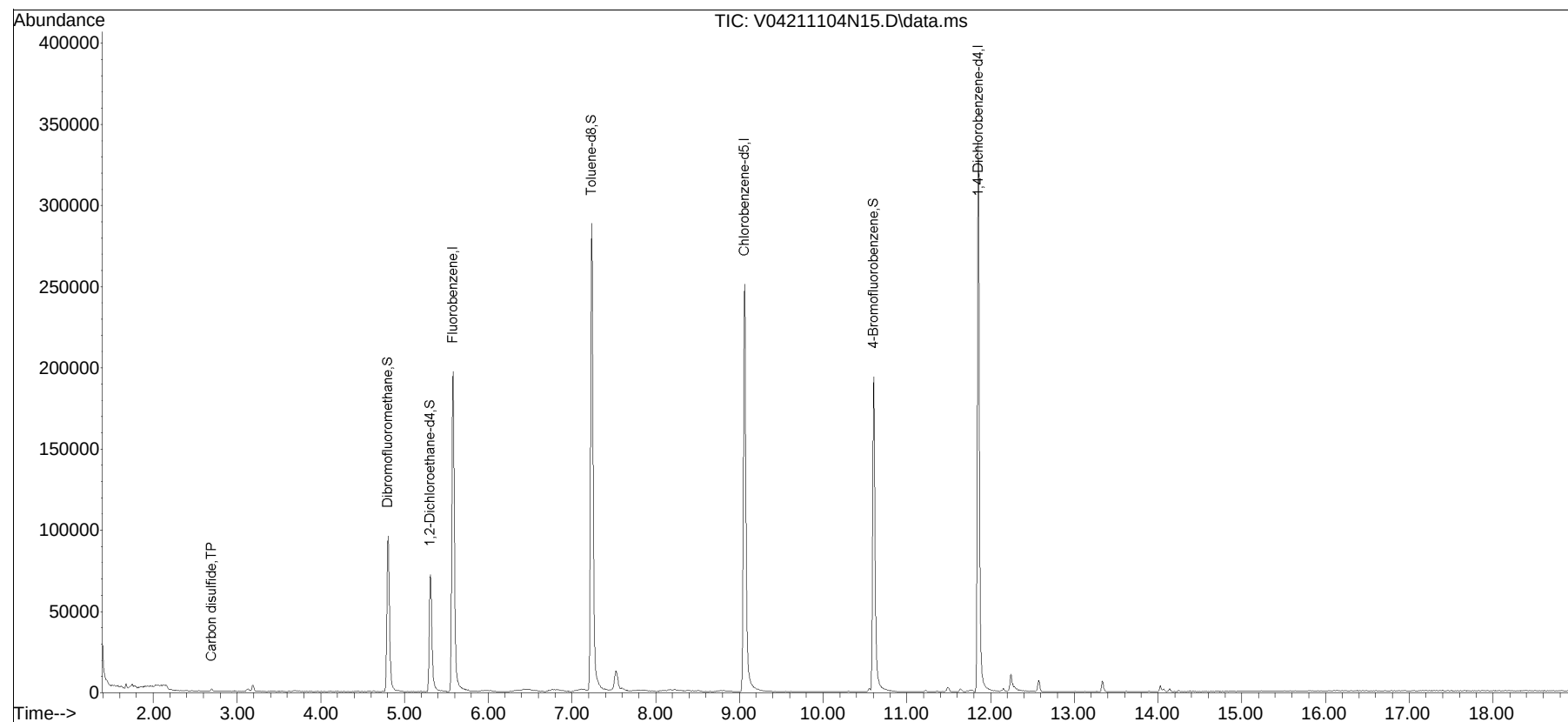
(#) = qualifier out of range (m) = manual integration (+) = signals summed

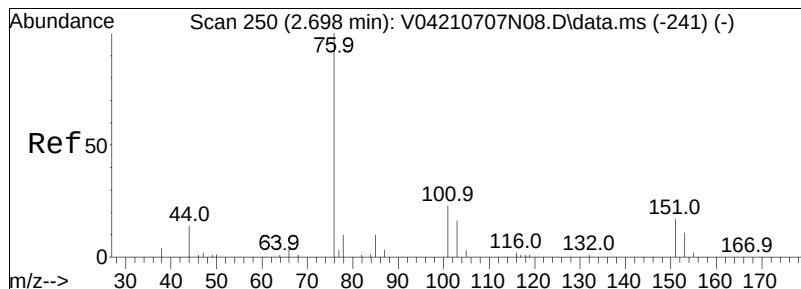
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N15.D
 Acq On : 4 Nov 2021 11:52 pm
 Operator : VOA104:NLK
 Sample : L2159682-15,31,3.16,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 05 08:51:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

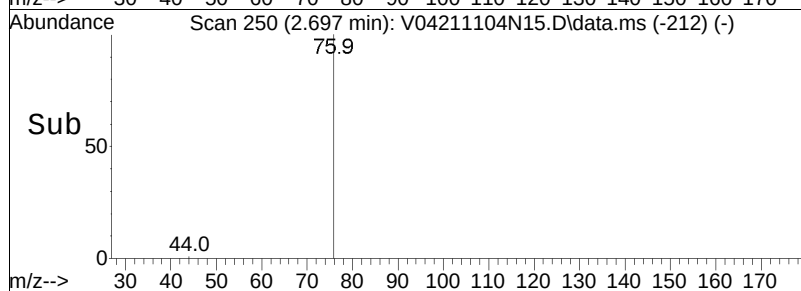
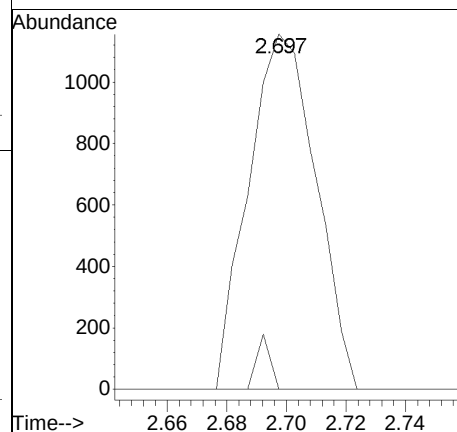
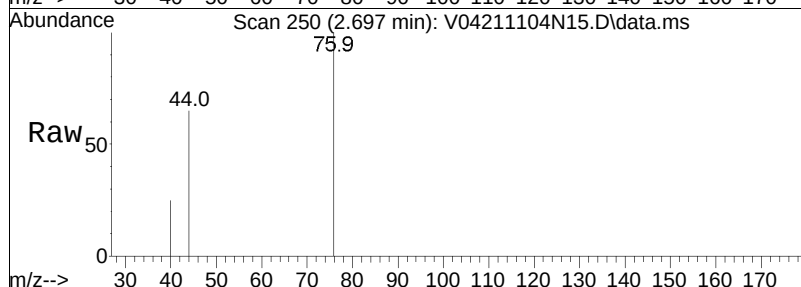
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•





#11
 Carbon disulfide
 Concen: 0.21 ug/L
 RT: 2.697 min Scan# 250
 Delta R.T. -0.001 min
 Lab File: V04211104N15.D
 Acq: 4 Nov 2021 11:52 pm

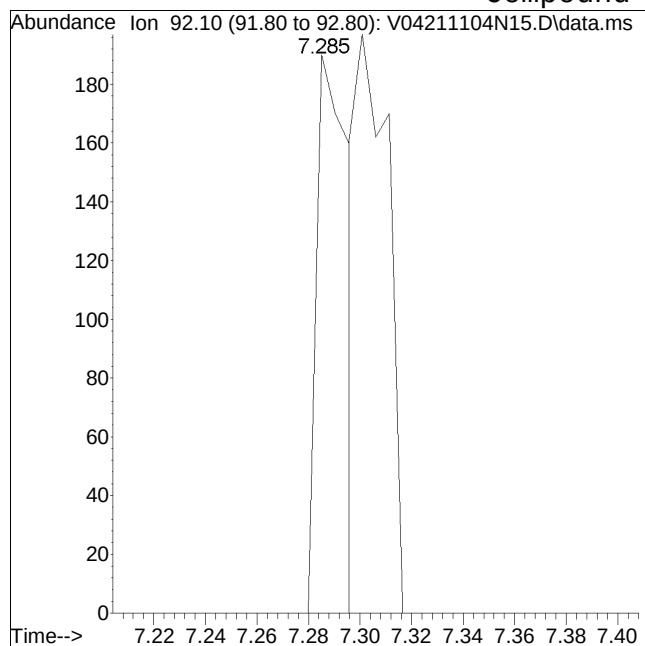
Tgt Ion: 76 Resp: 1820
 Ion Ratio Lower Upper
 76 100
 78 3.1 6.6 13.8#



Manual Integration Report

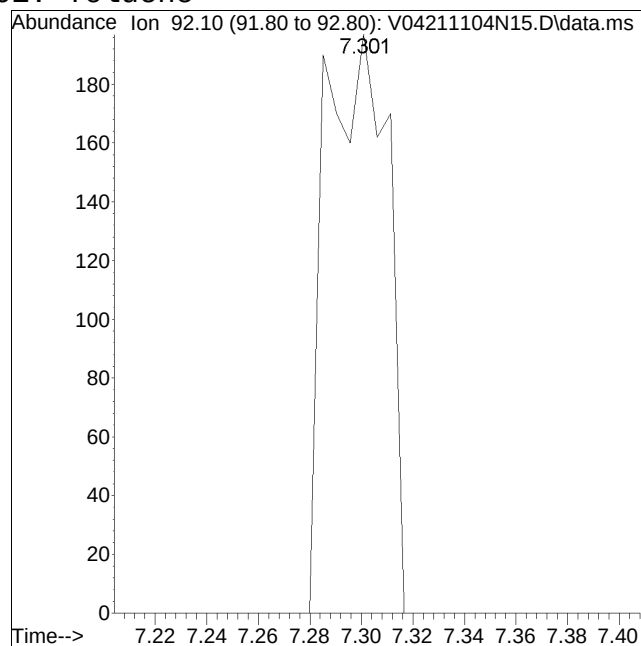
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N15.D Operator : VOA104:NLK
Date Inj'd : 11/4/2021 11:52 pm Instrument : VOA104
Sample : L2159682-15,31,3.16,5,,Y,PQuant Date : 11/5/2021 8:43 am

Compound #61: Toluene



Original Peak Response = 164

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 330 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N16.D
 Acq On : 5 Nov 2021 12:17 am
 Operator : VOA104:NLK
 Sample : L2159682-16,31,5.99,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 08:43:31 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	193979	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	72.98%		
59) Chlorobenzene-d5	9.063	117	176880	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	94.60%		
79) 1,4-Dichlorobenzene-d4	11.852	152	98517	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	99.08%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	65648	22.218	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	111.09%		
43) 1,2-Dichloroethane-d4	5.309	65	56955	20.333	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.66%		
60) Toluene-d8	7.238	98	222190	19.950	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.75%		
83) 4-Bromofluorobenzene	10.604	95	80244	17.587	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	87.94%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.681	50	170	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.995	94	83	Below Cal	#	4
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.698	76	1805	0.208	ug/L	# 80
15) Methylene chloride	3.191	84	1447	Below Cal		84
17) Acetone	3.238	43	3649	4.153	ug/L	96
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.643	83	360	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N16.D
 Acq On : 5 Nov 2021 12:17 am
 Operator : VOA104:NLK
 Sample : L2159682-16,31,5.99,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 08:43:31 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.665	95	111		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.306	92	396		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.063	91	107		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	10.599	91	47		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N16.D
 Acq On : 5 Nov 2021 12:17 am
 Operator : VOA104:NLK
 Sample : L2159682-16,31,5.99,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 08:43:31 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

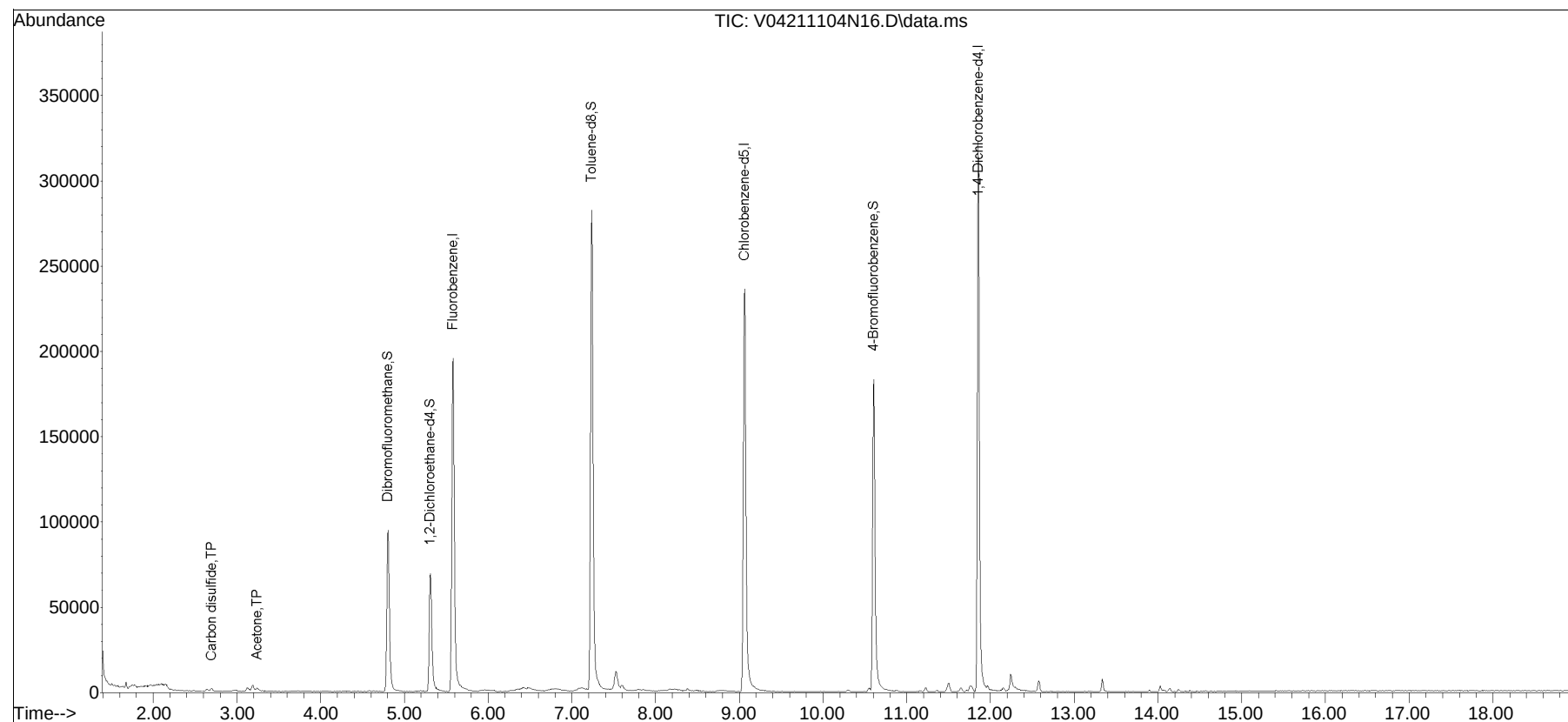
(#) = qualifier out of range (m) = manual integration (+) = signals summed

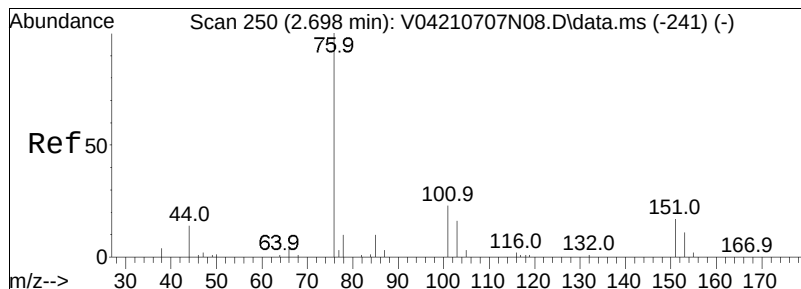
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N16.D
 Acq On : 5 Nov 2021 12:17 am
 Operator : VOA104:NLK
 Sample : L2159682-16,31,5.99,5,,Y,PRI
 Misc : WG1567587,ICAL18128
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 05 08:43:31 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

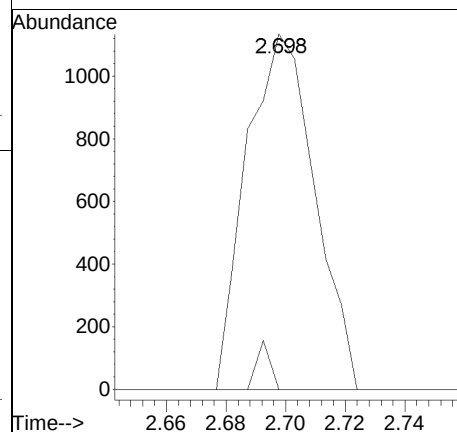
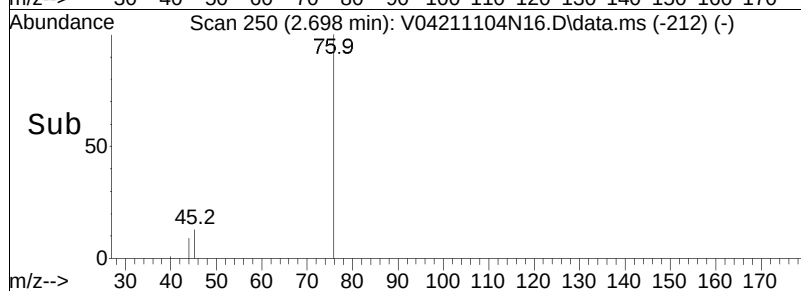
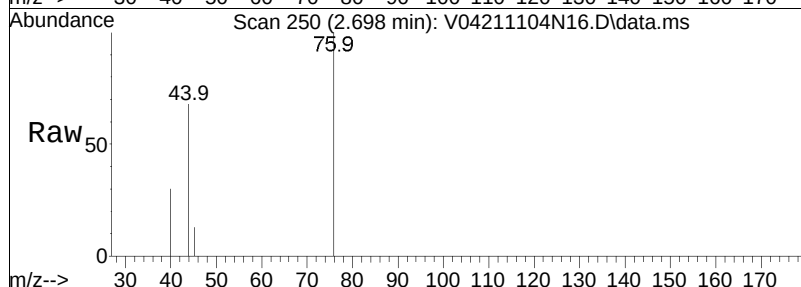
Sub List : 8260-NYTCL - Megamix plus Diox11104N\V04211104N01.D•

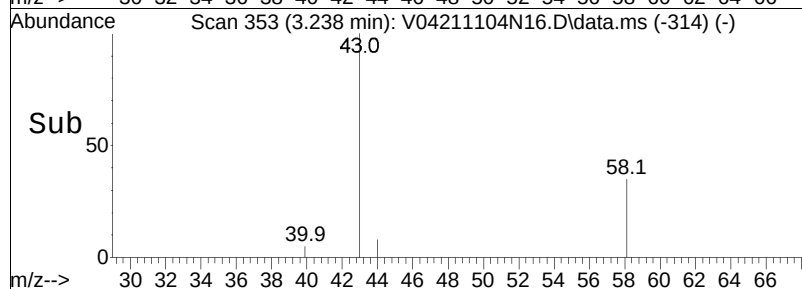
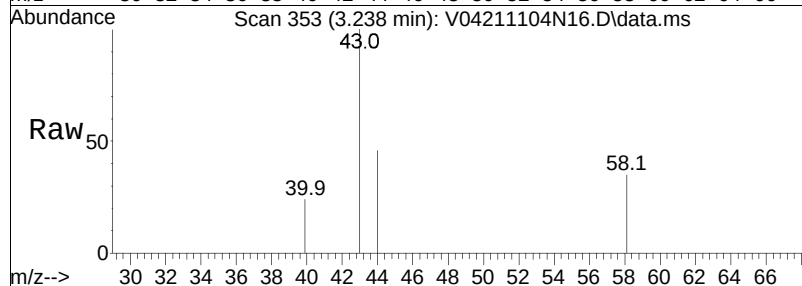
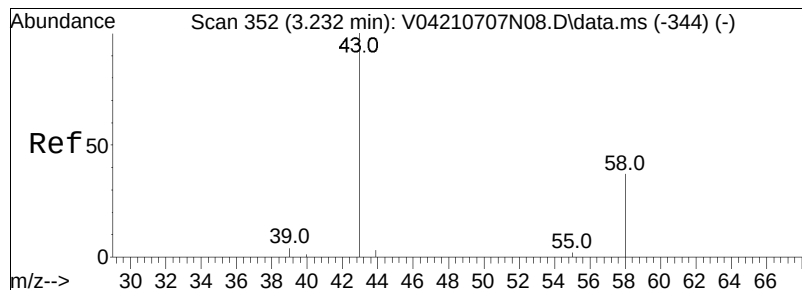




#11
 Carbon disulfide
 Concen: 0.21 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N16.D
 Acq: 5 Nov 2021 12:17 am

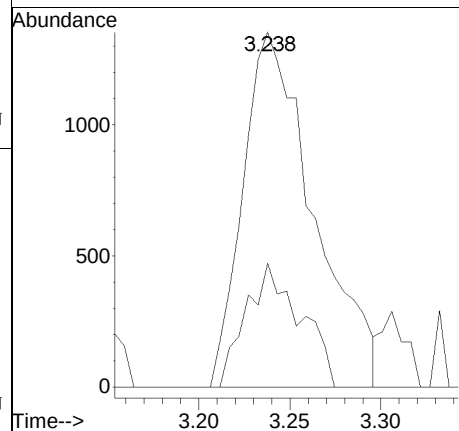
Tgt Ion: 76 Resp: 1805
 Ion Ratio Lower Upper
 76 100
 78 2.7 6.6 13.8#





#17
 Acetone
 Concen: 4.15 ug/L
 RT: 3.238 min Scan# 353
 Delta R.T. 0.006 min
 Lab File: V04211104N16.D
 Acq: 5 Nov 2021 12:17 am

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.9	23.2	34.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N16.D Operator : VOA104:NLK
Date Inj'd : 11/5/2021 12:17 am Instrument : VOA104
Sample : L2159682-16,31,5.99,5,,Y,PQuant Date : 11/5/2021 8:43 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Calibration dates : 07/07/21 20:54 07/08/21 00:16

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18128

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

	Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
1) I	Fluorobenzene	-----ISTD-----										
2) TP	Dichlorodifluo	0.275	0.312	0.309	0.296	0.291	0.289	0.274	0.278	0.290		5.06
3) TP	Chloromethane	0.394	0.419	0.423	0.379	0.363	0.373	0.364	0.377	0.386		6.10
4) TC	Vinyl chloride	0.283	0.353	0.349	0.328	0.323	0.319	0.299	0.311	0.321		7.40
5) TP	Bromomethane		0.216	0.208	0.167	0.154	0.151	0.135	0.136	*L		0.9973
6) TP	Chloroethane	0.126	0.157	0.155	0.129	0.119	0.110			0.132		14.61
7) TP	Trichlorofluor	0.409	0.444	0.451	0.439	0.434	0.405	0.386	0.375	0.418		6.80
8) TP	Ethyl ether	0.146	0.156	0.154	0.147	0.142	0.142	0.137	0.138	0.145		4.91
10) TC	1,1-Dichloroet	0.213	0.252	0.266	0.255	0.248	0.243	0.227	0.228	0.241		7.29
11) TP	Carbon disulfide	1.055	1.032	0.987	0.886	0.868	0.829	0.757	0.757	0.896		13.07
12) TP	Freon-113	0.247	0.287	0.283	0.278	0.276	0.269	0.247	0.245	0.266		6.53
14) TP	Acrolein			0.032	0.033	0.035	0.034	0.034	0.035	0.034#		3.63
15) TP	Methylene chlo	1.149	0.732	0.398	0.307	0.292	0.276	0.263	0.267	*L		0.9991
17) TP	Acetone	0.205	0.132	0.096	0.057	0.055	0.054	0.059	0.054	*L		0.9980
18) TP	trans-1,2-Dich	0.254	0.296	0.291	0.281	0.280	0.272	0.254	0.258	0.273		6.03
19) TP	Methyl acetate		0.126	0.152	0.159	0.159	0.161	0.159	0.158	0.154		8.16
20) TP	Methyl tert butyl ether	0.631	0.702	0.732	0.723	0.715	0.709	0.691	0.693	0.699		4.45
21) TP	tert-Butyl alc	0.031	0.029	0.032	0.030	0.030	0.029	0.029	0.029	0.030#		3.46
22) TP	Diisopropyl ether	0.860	0.947	0.998	1.039	1.067	1.063	1.007	1.009	0.999		6.81
23) TP	1,1-Dichloroet	0.584	0.671	0.692	0.636	0.619	0.596	0.555	0.561	0.614		8.12
24) TP	Halothane	0.195	0.231	0.242	0.231	0.229	0.223	0.209	0.212	0.221		6.84
25) TP	Acrylonitrile		0.073	0.105	0.094	0.094	0.095	0.092	0.091	0.092		10.52
26) TP	Ethyl tert-but	0.748	0.860	0.896	0.933	0.952	0.954	0.917	0.923	0.898		7.55
27) TP	Vinyl acetate		0.572	0.592	0.620	0.635	0.638	0.608	0.603	0.610		3.87
28) TP	cis-1,2-Dichlo	0.303	0.322	0.335	0.316	0.307	0.296	0.284	0.287	0.306		5.73
29) TP	2,2-Dichloropr	0.429	0.460	0.485	0.442	0.435	0.421	0.396	0.394	0.433		7.07
30) TP	Bromochloromet	0.131	0.150	0.160	0.150	0.142	0.137	0.128	0.130	0.141		8.17
31) TP	Cyclohexane	0.574	0.618	0.640	0.598	0.585	0.556	0.516	0.506	0.574		8.17
32) TC	Chloroform	0.596	0.617	0.607	0.530	0.510	0.493	0.466	0.472	0.536		11.53
33) TP	Ethyl acetate		0.189	0.229	0.241	0.237	0.240	0.235	0.229	0.229		7.81
34) TP	Carbon tetrachloride	0.332	0.399	0.437	0.416	0.419	0.412	0.390	0.396	0.400		7.85
35) TP	Tetrahydrofuran		0.090	0.097	0.096	0.088	0.090	0.088	0.084	0.083	0.089	5.53
36) S	Dibromofluoromethane	0.340	0.330	0.328	0.323	0.297	0.287	0.281	0.277	0.278	0.305	8.34
37) TP	1,1,1-Trichloroethane	0.415	0.412	0.452	0.458	0.443	0.433	0.417	0.396	0.399	0.425	5.27
39) TP	2-Butanone			0.156	0.117	0.112	0.109	0.101	0.100	*L		0.9991
40) TP	1,1-Dichloropropene	0.291	0.299	0.360	0.381	0.377	0.373	0.359	0.337	0.339	0.346	9.53



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Calibration dates : 07/07/21 20:54 07/08/21 00:16

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18128

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
41) TP Benzene	0.946	0.925	1.061	1.089	1.074	1.061	1.028	0.980	0.986	1.017	5.85
42) TP Tertiary-Amyl Methyl Ether		0.554	0.624	0.629	0.642	0.654	0.661	0.653	0.663	0.635	5.63
43) S 1,2-Dichloroethane-d4	0.312	0.309	0.311	0.307	0.274	0.271	0.269	0.270	0.275	0.289	7.01
44) TP 1,2-Dichloroet		0.399	0.430	0.434	0.407	0.395	0.384	0.369	0.376	0.399	5.92
47) TP Methyl cyclohe		0.340	0.403	0.420	0.434	0.437	0.436	0.409	0.408	0.411	7.73
48) TP Trichloroethene	0.282	0.252	0.272	0.299	0.296	0.295	0.284	0.269	0.270	0.280	5.48
50) TP Dibromomethane		0.160	0.163	0.171	0.166	0.163	0.161	0.158	0.160	0.163	2.65
51) TC 1,2-Dichloropr		0.322	0.350	0.351	0.346	0.348	0.336	0.324	0.328	0.338	3.64
53) TP 2-Chloroethyl			0.130	0.146	0.172	0.182	0.186	0.186	0.189	0.170	13.43
54) TP Bromodichloromethane	0.343	0.351	0.420	0.411	0.398	0.392	0.387	0.378	0.386	0.385	6.53
57) TP 1,4-Dioxane		0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002#	13.88
58) TP cis-1,3-Dichloropropene	0.304	0.354	0.383	0.449	0.454	0.456	0.452	0.439	0.446	0.415	13.22
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.220	1.238	1.240	1.245	1.285	1.267	1.274	1.284	1.281	1.259	1.90
61) TC Toluene		0.799	0.837	0.858	0.858	0.861	0.847	0.813	0.819	0.836	2.86
62) TP 4-Methyl-2-pen		0.081	0.118	0.130	0.133	0.133	0.133	0.130	0.127	0.123	14.53
63) TP Tetrachloroethene	0.286	0.338	0.388	0.401	0.429	0.437	0.428	0.408	0.411	0.392	12.61
65) TP trans-1,3-Dichloropropene		0.340	0.407	0.451	0.514	0.519	0.519	0.507	0.513	0.471	14.14
67) TP Ethyl methacry		0.337	0.374	0.404	0.411	0.409	0.395	0.384	0.381	0.387	6.31
68) TP 1,1,2-Trichlor		0.203	0.218	0.235	0.245	0.250	0.245	0.236	0.236	0.234	6.68
69) TP Chlorodibromomethane	0.256	0.276	0.328	0.344	0.373	0.388	0.385	0.383	0.391	0.347	14.69
70) TP 1,3-Dichloropr		0.360	0.426	0.462	0.485	0.495	0.489	0.475	0.478	0.459	9.90
71) TP 1,2-Dibromoethane	0.196	0.203	0.263	0.282	0.309	0.321	0.318	0.314	0.315	*L	0.9999
72) TP 2-Hexanone			0.297	0.252	0.224	0.214	0.223	0.220	0.216	0.235	12.86
73) TP Chlorobenzene	0.864	0.862	1.001	0.997	1.018	1.016	0.993	0.956	0.970	0.964	6.30
74) TC Ethylbenzene		1.667	1.689	1.709	1.687	1.658	1.611	1.508	1.517	1.631	4.81
75) TP 1,1,1,2-Tetrachloroethane	0.285	0.290	0.328	0.344	0.383	0.383	0.389	0.375	0.384	0.351	11.83
76) TP p/m Xylene	0.939	0.730	0.752	0.706	0.676	0.667	0.631	0.585	0.580	*L	0.9978
77) TP o Xylene	0.738	0.640	0.682	0.680	0.650	0.636	0.609	0.571	0.564	0.641	8.63
78) TP Styrene	0.979	0.974	1.089	1.088	1.088	1.062	1.006	0.938	0.928	1.017	6.48
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform			0.343	0.389	0.437	0.467	0.481	0.488	0.506	0.444	13.31
82) TP Isopropylbenzene		2.738	2.989	3.182	3.289	3.362	3.322	3.183	3.244	3.164	6.53
83) S 4-Bromofluorobenzene	0.896	0.911	0.896	0.918	0.912	0.940	0.939	0.952	0.972	0.926	2.82
84) TP Bromobenzene		0.645	0.717	0.759	0.792	0.809	0.805	0.791	0.827	0.768	7.84
85) TP n-Propylbenzene		3.011	3.436	3.624	3.723	3.784	3.700	3.522	3.585	3.548	6.89



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Calibration dates : 07/07/21 20:54 07/08/21 00:16

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18128

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

Compound			0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
86)	TP	1,4-Dichlorobu		1.224	1.211	1.315	1.264	1.284	1.271	1.241	1.260	1.259	2.65
87)	TP	1,1,2,2-Tetrachloroethane	0.598	0.631	0.624	0.658	0.679	0.683	0.689	0.677	0.687	0.659	5.00
88)	TP	4-Ethyltoluene		2.626	2.912	3.145	3.234	3.277	3.175	2.991	3.063	3.053	6.92
89)	TP	2-Chlorotoluene		1.953	2.116	2.157	2.164	2.230	2.205	2.053	2.132	2.126	4.15
90)	TP	1,3,5-Trimethy		2.320	2.454	2.728	2.700	2.741	2.687	2.554	2.580	2.596	5.75
91)	TP	1,2,3-Trichlor		0.518	0.490	0.525	0.502	0.517	0.515	0.506	0.505	0.510	2.17
92)	TP	trans-1,4-Dich			0.200	0.217	0.244	0.252	0.242	0.245	0.250	0.236	8.32
93)	TP	4-Chlorotoluene		1.931	2.223	2.255	2.266	2.309	2.250	2.177	2.254	2.208	5.34
94)	TP	tert-Butylbenzene		1.877	2.097	2.265	2.292	2.307	2.301	2.193	2.223	2.194	6.65
97)	TP	1,2,4-Trimethy		2.338	2.460	2.671	2.694	2.716	2.679	2.566	2.625	2.594	5.11
98)	TP	sec-Butylbenzene		2.998	3.420	3.517	3.599	3.673	3.578	3.361	3.383	3.441	6.11
99)	TP	p-Isopropyltol		2.377	2.699	2.885	2.922	2.990	2.915	2.746	2.775	2.789	6.95
100)	TP	1,3-Dichlorobe		1.327	1.442	1.558	1.577	1.592	1.555	1.503	1.553	1.514	5.87
101)	TP	1,4-Dichlorobe		1.437	1.584	1.556	1.585	1.596	1.552	1.507	1.555	1.547	3.38
102)	TP	p-Diethylbenzene		1.454	1.572	1.663	1.698	1.754	1.714	1.620	1.649	1.641	5.74
103)	TP	n-Butylbenzene		2.192	2.463	2.552	2.603	2.646	2.555	2.399	2.411	2.478	5.87
104)	TP	1,2-Dichlorobe		1.264	1.445	1.451	1.481	1.477	1.453	1.409	1.441	1.427	4.89
105)	TP	1,2,4,5-Tetram		2.419	2.593	2.719	2.764	2.785	2.733	2.625	2.675	2.664	4.47
106)	TP	1,2-Dibromo-3-			0.084	0.097	0.113	0.114	0.117	0.119	0.124	0.110	12.72
107)	TP	1,3,5-Trichlor		0.953	1.070	1.082	1.122	1.149	1.096	1.055	1.098	1.078	5.45
108)	TP	Hexachlorobuta		0.533	0.593	0.636	0.644	0.654	0.626	0.599	0.616	0.613	6.26
109)	TP	1,2,4-Trichlor		0.932	0.974	0.974	1.014	1.043	1.005	0.968	1.014	0.991	3.54
110)	TP	Naphthalene		2.105	2.048	2.030	2.064	2.173	2.134	2.121	2.188	2.108	2.72
111)	TP	1,2,3-Trichlor		0.850	0.902	0.897	0.905	0.931	0.910	0.889	0.932	0.902	2.87

Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Calibration dates : 10/05/21 01:04 10/05/21 04:06

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18356

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluo		0.199	0.266	0.255	0.252	0.251	0.230	0.237	0.241	9.15
3) TP Chloromethane		0.283	0.362	0.335	0.315	0.314	0.317	0.342	0.324	7.76
4) TC Vinyl chloride	0.370	0.249	0.325	0.302	0.300	0.304	0.284	0.293	0.303	11.35
5) TP Bromomethane		0.126	0.137	0.122	0.129	0.136	0.132	0.142	0.132	5.34
6) TP Chloroethane		0.128	0.168	0.153	0.140	0.115			0.141	14.78
7) TP Trichlorofluor		0.286	0.355	0.334	0.335	0.337	0.312	0.321	0.326	6.82
8) TP Ethyl ether		0.068	0.079	0.087	0.090	0.094	0.091	0.094	0.086	11.05
10) TC 1,1-Dichloroet		0.134	0.209	0.199	0.197	0.199	0.184	0.190	0.187	13.23
11) TP Carbon disulfide		0.486	0.612	0.581	0.585	0.582	0.535	0.550	0.561	7.43
12) TP Freon-113		0.113	0.186	0.189	0.194	0.192	0.176	0.183	0.176	16.26
13) TP Iodomethane			0.034	0.094	0.149	0.191	0.187	0.207	*Q	0.9977
14) TP Acrolein			0.025	0.025	0.025	0.026	0.027	0.027	0.026#	3.84
15) TP Methylene chlo		0.196	0.227	0.215	0.208	0.204	0.194	0.198	0.206	5.71
17) TP Acetone			0.055	0.043	0.036	0.036	0.035	0.036	0.040#	19.92
18) TP trans-1,2-Dich		0.172	0.213	0.217	0.219	0.221	0.205	0.213	0.209	8.11
19) TP Methyl acetate		0.136	0.108	0.100	0.095	0.099	0.097	0.101	0.105	13.49
20) TP Methyl tert butyl ether		0.311	0.357	0.407	0.429	0.446	0.440	0.454	0.406	13.10
21) TP tert-Butyl alc		0.007	0.010	0.011	0.012	0.012	0.012	0.012	0.011#	16.37
22) TP Diisopropyl ether		0.769	0.861	0.945	0.998	1.011	0.962	0.995	0.934	9.51
23) TP 1,1-Dichloroet		0.416	0.505	0.501	0.498	0.489	0.457	0.476	0.477	6.68
24) TP Halothane		0.132	0.180	0.182	0.190	0.194	0.180	0.188	0.178	11.76
25) TP Acrylonitrile		0.034	0.067	0.064	0.061	0.062	0.061	0.064	0.059	19.15
26) TP Ethyl tert-but		0.521	0.578	0.665	0.729	0.760	0.748	0.779	0.683	14.55
27) TP Vinyl acetate		0.341	0.382	0.454	0.514	0.542	0.545	0.567	0.478	18.37
28) TP cis-1,2-Dichlo		0.209	0.265	0.264	0.264	0.271	0.259	0.271	0.257	8.49
29) TP 2,2-Dichloropr		0.179	0.281	0.300	0.308	0.323	0.310	0.333	0.291	17.88
30) TP Bromochloromet		0.102	0.118	0.117	0.119	0.118	0.114	0.116	0.115	5.10
31) TP Cyclohexane		0.344	0.439	0.464	0.493	0.502	0.458	0.477	0.454	11.63
32) TC Chloroform		0.347	0.421	0.437	0.439	0.434	0.416	0.434	0.418	7.78
33) TP Ethyl acetate		0.138	0.120	0.160	0.169	0.177	0.177	0.183	0.161	14.54
34) TP Carbon tetrachloride		0.149	0.234	0.263	0.286	0.307	0.296	0.320	*L	0.9983
35) TP Tetrahydrofuran			0.058	0.061	0.061	0.059	0.057	0.060	0.059	2.63
36) S Dibromofluoromethane	0.277	0.288	0.286	0.275	0.270	0.269	0.266	0.270	0.275	2.93
37) TP 1,1,1-Trichlor		0.229	0.317	0.351	0.371	0.382	0.364	0.386	0.343	16.07
39) TP 2-Butanone		0.059	0.063	0.062	0.074	0.075	0.074	0.076	0.069#	10.54



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Calibration dates : 10/05/21 01:04 10/05/21 04:06

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18356

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP 1,1-Dichloropr	0.209	0.288	0.302	0.328	0.332	0.311	0.327	0.300	14.32	
41) TP Benzene	1.112	0.716	0.907	0.940	0.972	0.969	0.918	0.951	11.66	
42) TP Tertiary-Amyl Methyl Ether	0.326	0.379	0.439	0.491	0.526	0.524	0.549	0.462	18.17	
43) S 1,2-Dichloroethane-d4	0.280	0.276	0.283	0.284	0.283	0.283	0.283	0.277	1.16	
44) TP 1,2-Dichloroet	0.260	0.302	0.313	0.315	0.317	0.305	0.313	0.303	6.62	
47) TP Methyl cyclohe	0.226	0.341	0.350	0.380	0.393	0.365	0.378	0.347	16.30	
48) TP Trichloroethene	0.265	0.182	0.242	0.245	0.255	0.260	0.245	0.253	10.67	
50) TP Dibromomethane	0.109	0.117	0.123	0.123	0.125	0.121	0.126	0.121	4.88	
51) TC 1,2-Dichloropr	0.198	0.242	0.257	0.271	0.276	0.265	0.274	0.255	10.89	
54) TP Bromodichlorom	0.217	0.247	0.279	0.300	0.318	0.313	0.328	0.286	14.28	
57) TP 1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	16.65	
58) TP cis-1,3-Dichloropropene	0.210	0.232	0.293	0.330	0.360	0.355	0.372	*Q	0.9994	
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.247	1.238	1.255	1.272	1.282	1.272	1.316	1.296	2.03	
61) TC Toluene	0.992	0.624	0.748	0.796	0.802	0.792	0.786	0.790	12.68	
62) TP 4-Methyl-2-pen	0.058	0.070	0.073	0.079	0.079	0.079	0.081	0.073#	11.78	
63) TP Tetrachloroethene	0.209	0.309	0.330	0.338	0.340	0.335	0.336	0.314	15.10	
65) TP trans-1,3-Dichloropropene	0.159	0.238	0.294	0.344	0.375	0.393	0.399	*Q	0.9992	
67) TP Ethyl methacry	0.115	0.147	0.205	0.238	0.257	0.267	*Q	0.9994		
68) TP 1,1,2-Trichlor	0.138	0.158	0.176	0.185	0.186	0.190	0.188	0.174	11.10	
69) TP Chlorodibromom	0.140	0.194	0.229	0.260	0.275	0.288	0.294	*Q	0.9996	
70) TP 1,3-Dichloropr	0.289	0.329	0.375	0.394	0.389	0.394	0.390	0.366	11.20	
71) TP 1,2-Dibromoethane	0.135	0.161	0.203	0.219	0.219	0.223	0.223	0.198	17.90	
72) TP 2-Hexanone	0.104	0.122	0.131	0.136	0.140	0.140	0.129	10.86		
73) TP Chlorobenzene	0.706	0.858	0.879	0.883	0.865	0.860	0.852	0.843	7.30	
74) TC Ethylbenzene	1.589	1.070	1.405	1.522	1.563	1.516	1.470	1.432	11.35	
75) TP 1,1,1,2-Tetrac	0.148	0.201	0.246	0.279	0.295	0.302	0.307	*Q	0.9996	
76) TP p/m Xylene	0.587	0.411	0.522	0.584	0.592	0.571	0.554	0.538	10.89	
77) TP o Xylene	0.566	0.374	0.515	0.555	0.562	0.544	0.528	0.514	11.96	
78) TP Styrene	0.725	0.564	0.789	0.914	0.936	0.895	0.871	0.786	15.23	
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP Bromoform	0.138	0.181	0.209	0.242	0.264	0.278	0.268	*Q	0.9984	
82) TP Isopropylbenzene	1.851	2.606	2.731	2.853	2.823	2.727	2.566	2.594	13.26	
83) S 4-Bromofluorobenzene	0.905	0.899	0.932	0.926	0.914	0.931	0.927	0.901	1.51	
84) TP Bromobenzene	0.543	0.658	0.675	0.678	0.670	0.666	0.636	0.647	7.38	
85) TP n-Propylbenzene	2.369	3.109	3.283	3.390	3.416	3.237	2.890	3.099	11.89	



Initial Calibration Summary

Form 6

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Calibration dates : 10/05/21 01:04 10/05/21 04:06

Lab Number : L2159682
 Project Number : 48122
 Ical Ref : ICAL18356

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86) TP 1,4-Dichlorobu	0.659	0.821	0.841	0.840	0.844	0.842	0.797	0.806		8.33
87) TP 1,1,2,2-Tetrac	0.377	0.405	0.423	0.436	0.435	0.446	0.426	0.421		5.54
88) TP 4-Ethyltoluene	1.838	2.440	2.580	2.688	2.734	2.655	2.510	2.492		12.28
89) TP 2-Chlorotoluene	1.756	2.265	2.304	2.327	2.333	2.270	2.140	2.199		9.37
90) TP 1,3,5-Trimethy	1.628	2.206	2.286	2.329	2.365	2.317	2.229	2.194		11.66
91) TP 1,2,3-Trichlor	0.333	0.365	0.347	0.357	0.356	0.361	0.346	0.352		3.08
92) TP trans-1,4-Dich		0.118	0.130	0.142	0.153	0.158	0.155	0.143		11.16
93) TP 4-Chlorotoluene	1.666	1.963	2.046	2.106	2.133	2.080	1.999	1.999		7.92
94) TP tert-Butylbenzene	1.435	1.948	2.016	2.099	2.110	2.041	1.963	1.944		11.97
97) TP 1,2,4-Trimethy	1.548	2.132	2.241	2.303	2.350	2.299	2.223	2.157		12.87
98) TP sec-Butylbenzene	1.996	2.785	2.927	3.016	3.024	2.918	2.753	2.774		12.92
99) TP p-Isopropyltol	1.572	2.337	2.502	2.630	2.690	2.604	2.495	2.404		16.00
100) TP 1,3-Dichlorobe	1.028	1.340	1.325	1.333	1.327	1.304	1.286	1.278		8.74
101) TP 1,4-Dichlorobe	1.103	1.397	1.322	1.333	1.322	1.315	1.283	1.296		7.09
102) TP p-Diethylbenzene	0.978	1.336	1.481	1.540	1.583	1.569	1.532	1.431		15.13
103) TP n-Butylbenzene	1.496	2.153	2.269	2.302	2.333	2.276	2.187	2.145		13.67
104) TP 1,2-Dichlorobe	1.033	1.167	1.217	1.218	1.208	1.214	1.179	1.176		5.65
105) TP 1,2,4,5-Tetram		1.905	2.311	2.519	2.599	2.588	2.408	2.388		10.93
106) TP 1,2-Dibromo-3-	0.032	0.046	0.050	0.056	0.065	0.071	0.071	*Q		0.9983
107) TP 1,3,5-Trichlor	0.766	0.908	0.968	0.970	0.994	0.996	0.945	0.935		8.61
108) TP Hexachlorobuta	0.287	0.388	0.400	0.416	0.431	0.431	0.417	0.396		12.73
109) TP 1,2,4-Trichlor	0.592	0.737	0.807	0.852	0.886	0.894	0.847	0.802		13.30
110) TP Naphthalene	0.981	1.184	1.399	1.546	1.607	1.645	1.551	1.416		17.47
111) TP 1,2,3-Trichlor	0.549	0.670	0.686	0.720	0.738	0.750	0.713	0.689		9.85

Response Factor Report SV104

Method Path : I:\VOLATILES\VOA104\2021\210707N\
 Method File : V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021
 Response Via : Initial Calibration

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

Compound		0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
-----ISTD-----												
1) I	Fluorobenzene											
2) TP	Dichlorodifluo...	0.275	0.312	0.309	0.296	0.291	0.289	0.274	0.278	0.290		5.06
3) TP	Chloromethane	0.394	0.419	0.423	0.379	0.363	0.373	0.364	0.377	0.386		6.10
4) TC	Vinyl chloride	0.283	0.353	0.349	0.328	0.323	0.319	0.299	0.311	0.321		7.40
5) TP	Bromomethane		0.216	0.208	0.167	0.154	0.151	0.135	0.136	*L		0.9973
6) TP	Chloroethane	0.126	0.157	0.155	0.129	0.119	0.110			0.132		14.61
7) TP	Trichlorofluor...	0.409	0.444	0.451	0.439	0.434	0.405	0.386	0.375	0.418		6.80
8) TP	Ethyl ether	0.146	0.156	0.154	0.147	0.142	0.142	0.137	0.138	0.145		4.91
10) TC	1,1-Dichloroet...	0.213	0.252	0.266	0.255	0.248	0.243	0.227	0.228	0.241		7.29
11) TP	Carbon disulfide	1.055	1.032	0.987	0.886	0.868	0.829	0.757	0.757	0.896		13.07
12) TP	Freon-113	0.247	0.287	0.283	0.278	0.276	0.269	0.247	0.245	0.266		6.53
14) TP	Acrolein			0.032	0.033	0.035	0.034	0.034	0.035	0.034#		3.63
15) TP	Methylene chlo...	1.149	0.732	0.398	0.307	0.292	0.276	0.263	0.267	*L		0.9991
17) TP	Acetone	0.205	0.132	0.096	0.057	0.055	0.054	0.059	0.054	*L		0.9980
18) TP	trans-1,2-Dich...	0.254	0.296	0.291	0.281	0.280	0.272	0.254	0.258	0.273		6.03
19) TP	Methyl acetate		0.126	0.152	0.159	0.159	0.161	0.159	0.158	0.154		8.16
20) TP	Methyl tert-bu...	0.631	0.702	0.732	0.723	0.715	0.709	0.691	0.693	0.699		4.45
21) TP	tert-Butyl alc...	0.031	0.029	0.032	0.030	0.030	0.029	0.029	0.029	0.030#		3.46
22) TP	Diisopropyl ether	0.860	0.947	0.998	1.039	1.067	1.063	1.007	1.009	0.999		6.81
23) TP	1,1-Dichloroet...	0.584	0.671	0.692	0.636	0.619	0.596	0.555	0.561	0.614		8.12
24) TP	Halothane	0.195	0.231	0.242	0.231	0.229	0.223	0.209	0.212	0.221		6.84
25) TP	Acrylonitrile		0.073	0.105	0.094	0.094	0.095	0.092	0.091	0.092		10.52
26) TP	Ethyl tert-but...	0.748	0.860	0.896	0.933	0.952	0.954	0.917	0.923	0.898		7.55
27) TP	Vinyl acetate		0.572	0.592	0.620	0.635	0.638	0.608	0.603	0.610		3.87
28) TP	cis-1,2-Dichlo...	0.303	0.322	0.335	0.316	0.307	0.296	0.284	0.287	0.306		5.73
29) TP	2,2-Dichloropr...	0.429	0.460	0.485	0.442	0.435	0.421	0.396	0.394	0.433		7.07
30) TP	Bromochloromet...	0.131	0.150	0.160	0.150	0.142	0.137	0.128	0.130	0.141		8.17
31) TP	Cyclohexane	0.574	0.618	0.640	0.598	0.585	0.556	0.516	0.506	0.574		8.17
32) TC	Chloroform	0.596	0.617	0.607	0.530	0.510	0.493	0.466	0.472	0.536		11.53
33) TP	Ethyl acetate		0.189	0.229	0.241	0.237	0.240	0.235	0.229	0.229		7.81
34) TP	Carbon tetrach...	0.332	0.399	0.437	0.416	0.419	0.412	0.390	0.396	0.400		7.85

Response Factor Report SV104

Method Path : I:\VOLATILES\VOA104\2021\210707N\
 Method File : V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021
 Response Via : Initial Calibration

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

	Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
35)	TP Tetrahydrofuran	0.090	0.097	0.096	0.088	0.090	0.088	0.084	0.083	0.089	5.53	
36)	S Dibromofluorom...	0.340	0.330	0.328	0.323	0.297	0.287	0.281	0.277	0.278	0.305	8.34
37)	TP 1,1,1-Trichlor...	0.415	0.412	0.452	0.458	0.443	0.433	0.417	0.396	0.399	0.425	5.27
39)	TP 2-Butanone			0.156	0.117	0.112	0.109	0.101	0.100	*L	0.9991	
40)	TP 1,1-Dichloropr...	0.291	0.299	0.360	0.381	0.377	0.373	0.359	0.337	0.339	0.346	9.53
41)	TP Benzene	0.946	0.925	1.061	1.089	1.074	1.061	1.028	0.980	0.986	1.017	5.85
42)	TP tert-Amyl meth...	0.554	0.624	0.629	0.642	0.654	0.661	0.653	0.663	0.635	5.63	
43)	S 1,2-Dichloroet...	0.312	0.309	0.311	0.307	0.274	0.271	0.269	0.270	0.275	0.289	7.01
44)	TP 1,2-Dichloroet...	0.399	0.430	0.434	0.407	0.395	0.384	0.369	0.376	0.399	5.92	
47)	TP Methyl cyclohe...	0.340	0.403	0.420	0.434	0.437	0.436	0.409	0.408	0.411	7.73	
48)	TP Trichloroethene	0.282	0.252	0.272	0.299	0.296	0.295	0.284	0.269	0.270	0.280	5.48
50)	TP Dibromomethane	0.160	0.163	0.171	0.166	0.163	0.161	0.158	0.160	0.163	2.65	
51)	TC 1,2-Dichloropr...	0.322	0.350	0.351	0.346	0.348	0.336	0.324	0.328	0.338	3.64	
53)	TP 2-Chloroethyl ...		0.130	0.146	0.172	0.182	0.186	0.186	0.189	0.170	13.43	
54)	TP Bromodichlorom...	0.343	0.351	0.420	0.411	0.398	0.392	0.387	0.378	0.386	0.385	6.53
57)	TP 1,4-Dioxane	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002#	13.88	
58)	TP cis-1,3-Dichlo...	0.304	0.354	0.383	0.449	0.454	0.456	0.452	0.439	0.446	0.415	13.22
59)	I Chlorobenzene-d5	-----ISTD-----										
60)	S Toluene-d8	1.220	1.238	1.240	1.245	1.285	1.267	1.274	1.284	1.281	1.259	1.90
61)	TC Toluene	0.799	0.837	0.858	0.858	0.861	0.847	0.813	0.819	0.836	2.86	
62)	TP 4-Methyl-2-pen...	0.081	0.118	0.130	0.133	0.133	0.133	0.130	0.127	0.123	14.53	
63)	TP Tetrachloroethene	0.286	0.338	0.388	0.401	0.429	0.437	0.428	0.408	0.411	0.392	12.61
65)	TP trans-1,3-Dich...	0.340	0.407	0.451	0.514	0.519	0.519	0.507	0.513	0.471	14.14	
67)	TP Ethyl methacry...	0.337	0.374	0.404	0.411	0.409	0.395	0.384	0.381	0.387	6.31	
68)	TP 1,1,2-Trichlor...	0.203	0.218	0.235	0.245	0.250	0.245	0.236	0.236	0.234	6.68	
69)	TP Chlorodibromom...	0.256	0.276	0.328	0.344	0.373	0.388	0.385	0.383	0.391	0.347	14.69
70)	TP 1,3-Dichloropr...	0.360	0.426	0.462	0.485	0.495	0.489	0.475	0.478	0.459	9.90	
71)	TP 1,2-Dibromoethane	0.196	0.203	0.263	0.282	0.309	0.321	0.318	0.314	0.315	*L	0.9999
72)	TP 2-Hexanone		0.297	0.252	0.224	0.214	0.223	0.220	0.216	0.235	12.86	
73)	TP Chlorobenzene	0.864	0.862	1.001	0.997	1.018	1.016	0.993	0.956	0.970	0.964	6.30
74)	TC Ethylbenzene	1.667	1.689	1.709	1.687	1.658	1.611	1.508	1.517	1.631	4.81	

Response Factor Report SV104

Method Path : I:\VOLATILES\VOA104\2021\210707N\
 Method File : V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021
 Response Via : Initial Calibration

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

	Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
75)	TP 1,1,1,2-Tetrac...	0.285	0.290	0.328	0.344	0.383	0.383	0.389	0.375	0.384	0.351	11.83
76)	TP p/m Xylene	0.939	0.730	0.752	0.706	0.676	0.667	0.631	0.585	0.580	*L	0.9978
77)	TP o Xylene	0.738	0.640	0.682	0.680	0.650	0.636	0.609	0.571	0.564	0.641	8.63
78)	TP Styrene	0.979	0.974	1.089	1.088	1.088	1.062	1.006	0.938	0.928	1.017	6.48
79)	I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80)	TP Bromoform		0.343	0.389	0.437	0.467	0.481	0.488	0.506	0.444		13.31
82)	TP Isopropylbenzene		2.738	2.989	3.182	3.289	3.362	3.322	3.183	3.244	3.164	6.53
83)	S 4-Bromofluorob...	0.896	0.911	0.896	0.918	0.912	0.940	0.939	0.952	0.972	0.926	2.82
84)	TP Bromobenzene		0.645	0.717	0.759	0.792	0.809	0.805	0.791	0.827	0.768	7.84
85)	TP n-Propylbenzene		3.011	3.436	3.624	3.723	3.784	3.700	3.522	3.585	3.548	6.89
86)	TP 1,4-Dichlorobu...		1.224	1.211	1.315	1.264	1.284	1.271	1.241	1.260	1.259	2.65
87)	TP 1,1,2,2-Tetrac...	0.598	0.631	0.624	0.658	0.679	0.683	0.689	0.677	0.687	0.659	5.00
88)	TP 4-Ethyltoluene		2.626	2.912	3.145	3.234	3.277	3.175	2.991	3.063	3.053	6.92
89)	TP 2-Chlorotoluene		1.953	2.116	2.157	2.164	2.230	2.205	2.053	2.132	2.126	4.15
90)	TP 1,3,5-Trimethy...		2.320	2.454	2.728	2.700	2.741	2.687	2.554	2.580	2.596	5.75
91)	TP 1,2,3-Trichlor...		0.518	0.490	0.525	0.502	0.517	0.515	0.506	0.505	0.510	2.17
92)	TP trans-1,4-Dich...			0.200	0.217	0.244	0.252	0.242	0.245	0.250	0.236	8.32
93)	TP 4-Chlorotoluene		1.931	2.223	2.255	2.266	2.309	2.250	2.177	2.254	2.208	5.34
94)	TP tert-Butylbenzene		1.877	2.097	2.265	2.292	2.307	2.301	2.193	2.223	2.194	6.65
97)	TP 1,2,4-Trimethy...		2.338	2.460	2.671	2.694	2.716	2.679	2.566	2.625	2.594	5.11
98)	TP sec-Butylbenzene		2.998	3.420	3.517	3.599	3.673	3.578	3.361	3.383	3.441	6.11
99)	TP p-Isopropyltol...		2.377	2.699	2.885	2.922	2.990	2.915	2.746	2.775	2.789	6.95
100)	TP 1,3-Dichlorobe...		1.327	1.442	1.558	1.577	1.592	1.555	1.503	1.553	1.514	5.87
101)	TP 1,4-Dichlorobe...		1.437	1.584	1.556	1.585	1.596	1.552	1.507	1.555	1.547	3.38
102)	TP p-Diethylbenzene		1.454	1.572	1.663	1.698	1.754	1.714	1.620	1.649	1.641	5.74
103)	TP n-Butylbenzene		2.192	2.463	2.552	2.603	2.646	2.555	2.399	2.411	2.478	5.87
104)	TP 1,2-Dichlorobe...		1.264	1.445	1.451	1.481	1.477	1.453	1.409	1.441	1.427	4.89
105)	TP 1,2,4,5-Tetram...		2.419	2.593	2.719	2.764	2.785	2.733	2.625	2.675	2.664	4.47
106)	TP 1,2-Dibromo-3-...			0.084	0.097	0.113	0.114	0.117	0.119	0.124	0.110	12.72
107)	TP 1,3,5-Trichlor...		0.953	1.070	1.082	1.122	1.149	1.096	1.055	1.098	1.078	5.45
108)	TP Hexachlorobuta...		0.533	0.593	0.636	0.644	0.654	0.626	0.599	0.616	0.613	6.26

Response Factor Report SV104

Method Path : I:\VOLATILES\VOA104\2021\210707N\
 Method File : V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021
 Response Via : Initial Calibration

Calibration Files

0.5 =V04210707N03.D 1.0 =V04210707N04.D 2.0 =V04210707N05.D 4.0 =V04210707N06.D 20 =V04210707N07.D
 40 =V04210707N08.D 100 =V04210707N09.D 200 =V04210707N10.D 300 =V04210707N11.D

Compound		0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
109) TP	1,2,4-Trichlor...	0.932	0.974	0.974	1.014	1.043	1.005	0.968	1.014	0.991	3.54	
110) TP	Naphthalene	2.105	2.048	2.030	2.064	2.173	2.134	2.121	2.188	2.108	2.72	
111) TP	1,2,3-Trichlor...	0.850	0.902	0.897	0.905	0.931	0.910	0.889	0.932	0.902	2.87	

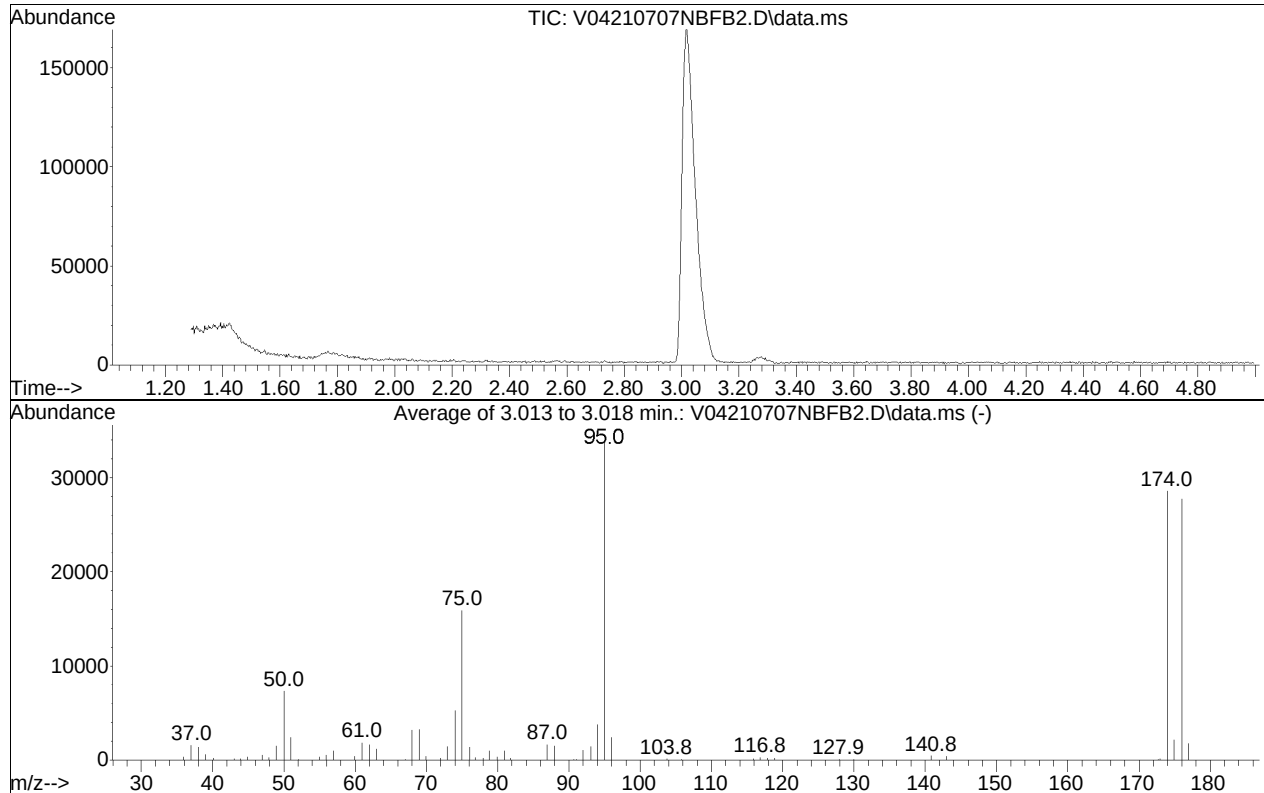
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707NBFB2.D
 Acq On : 7 Jul 2021 7:41 pm
 Operator : VOA104:JC
 Sample : WG1521748-1
 Misc : WG1521748,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021



Spectrum Information: Average of 3.013 to 3.018 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	7343	PASS
75	95	30	60	46.9	15923	PASS
95	95	100	100	100.0	33933	PASS
96	95	5	9	7.1	2413	PASS
173	174	0.00	2	0.5	156	PASS
174	95	50	100	84.4	28627	PASS
175	174	5	9	7.4	2119	PASS
176	174	95	101	96.9	27741	PASS
177	176	5	9	6.4	1763	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N03.D
 Acq On : 7 Jul 2021 8:54 pm
 Operator : VOA104:JC
 Sample : I8260STD0.5PPB
 Misc : WG1521748,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 13:31:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-L0_OH - Level 0.5ppb for Soils OH

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.586	96	221517	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery = 90.16%			
59) Chlorobenzene-d5	9.063	117	189783	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery = 104.34%			
79) 1,4-Dichlorobenzene-d4	11.857	152	103708	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery = 113.11%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.810	113	75363	22.335	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 111.68%			
43) 1,2-Dichloroethane-d4	5.314	65	69089	21.599	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 107.99%			
60) Toluene-d8	7.238	98	231630	19.383	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 96.91%			
83) 4-Bromofluorobenzene	10.604	95	92926	19.347	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 96.73%			
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	4.816	97	2296	0.488	ug/L #	94
40) 1,1-Dichloropropene	4.936	75	1611	0.420	ug/L	84
41) Benzene	5.172	78	5239	0.465	ug/L	97
48) Trichloroethene	5.765	95	1560	0.503	ug/L #	79
54) Bromodichloromethane	6.378	83	1901	0.446	ug/L #	93
58) cis-1,3-Dichloropropene	7.060	75	1686	0.367	ug/L #	84
63) Tetrachloroethene	7.741	166	1357	0.365	ug/L	85
69) Chlorodibromomethane	8.182	129	1214	0.369	ug/L #	94
71) 1,2-Dibromoethane	8.465	107	930M1	0.575	ug/L	
73) Chlorobenzene	9.089	112	4100	0.448	ug/L #	63
75) 1,1,1,2-Tetrachloroethane	9.178	131	1354	0.406	ug/L #	64
76) p/m Xylene	9.314	106	8910	0.787	ug/L	97
77) o Xylene	9.854	106	7002	1.151	ug/L	99
78) Styrene	9.943	104	9292M1	0.963	ug/L	
87) 1,1,2,2-Tetrachloroethane	10.877	83	1551	0.454	ug/L #	93

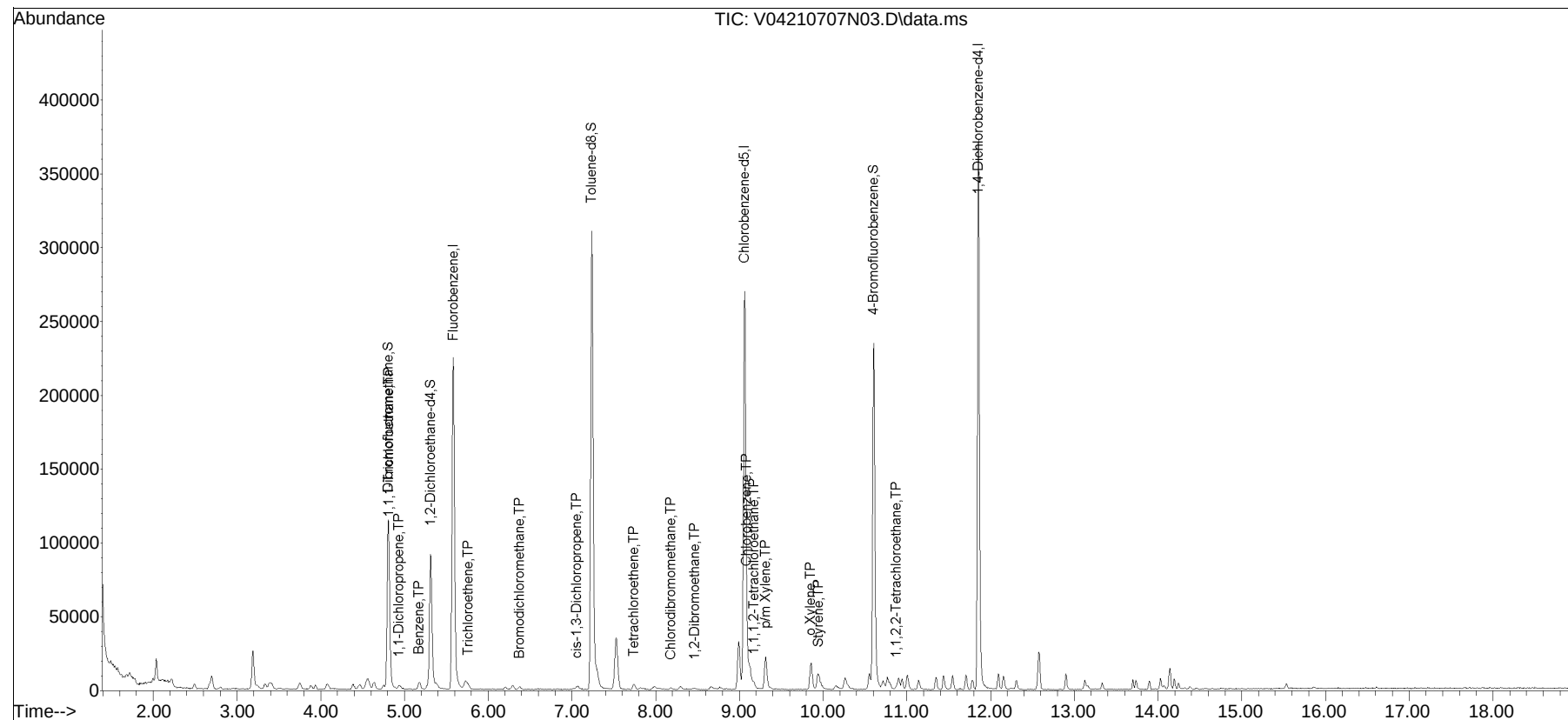
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N03.D
 Acq On : 7 Jul 2021 8:54 pm
 Operator : VOA104:JC
 Sample : I8260STD0.5PPB
 Misc : WG1521748,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 13:31:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

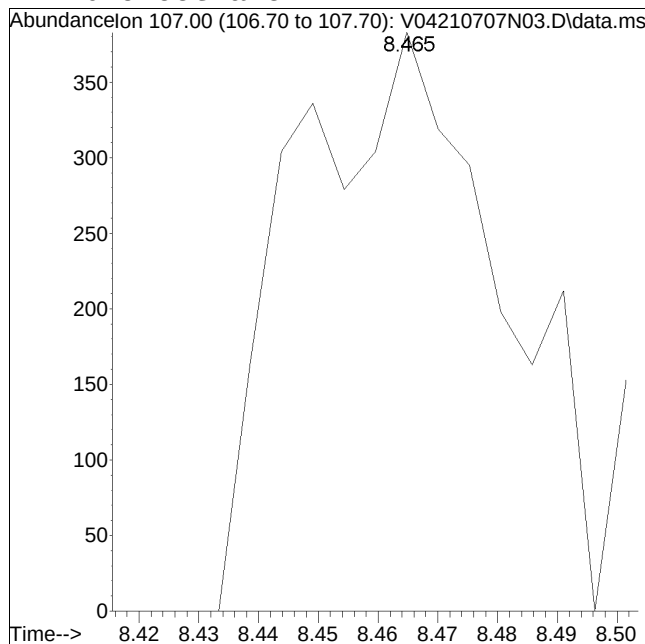
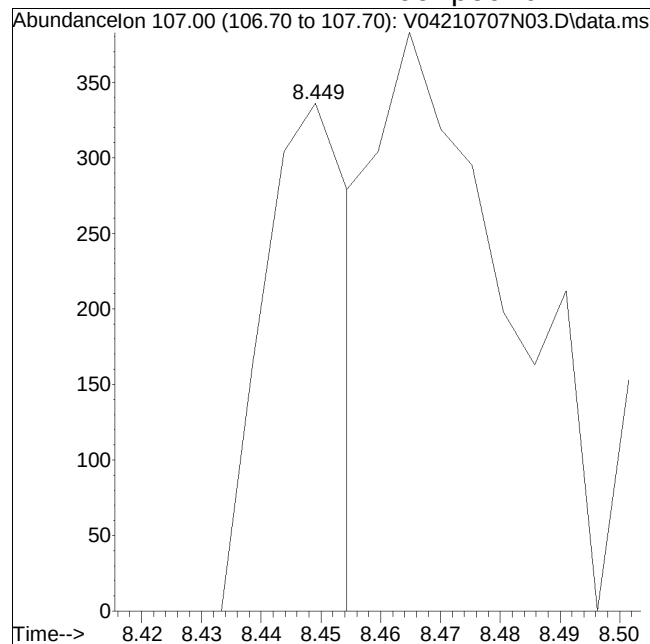
Sub List : 8260-L0_OH - Level 0.5ppb for Soils OH04210707N08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N03.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 8:54 pm Instrument : SV104
Sample : I8260STD0.5PPB Quant Date : 7/8/2021 1:31 pm

Compound #71: 1,2-Dibromoethane

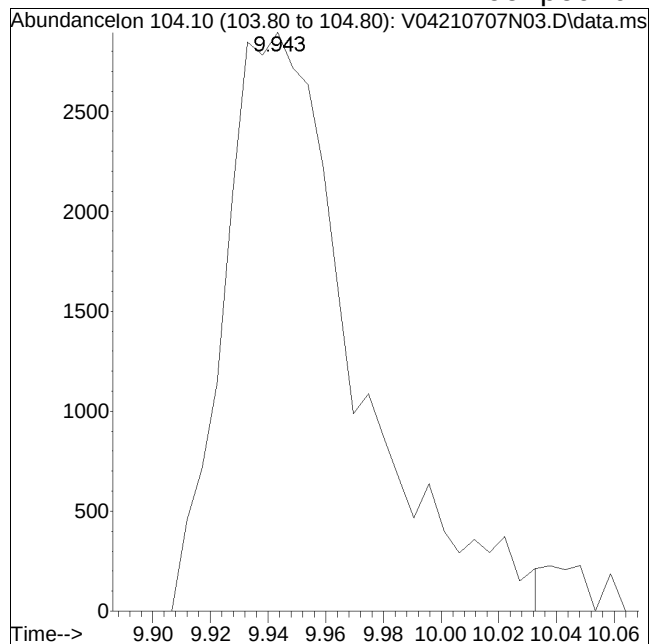


M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

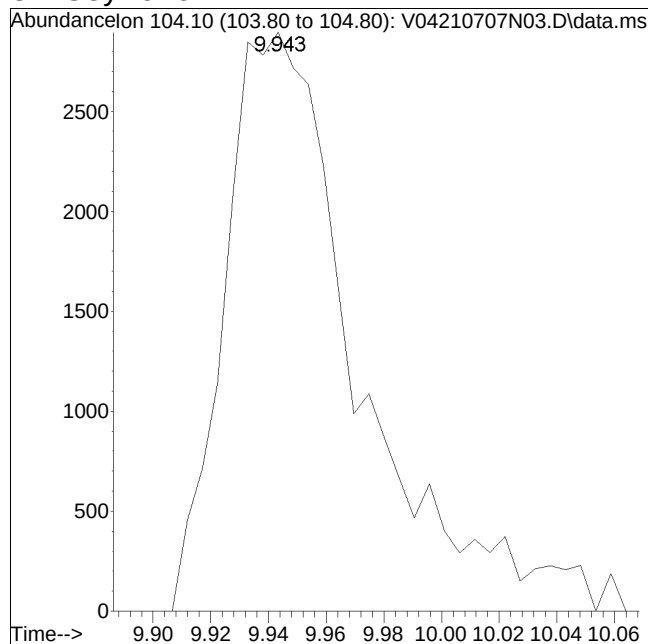
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N03.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 8:54 pm Instrument : SV104
Sample : I8260STD0.5PPB Quant Date : 7/8/2021 1:31 pm

Compound #78: Styrene



Original Peak Response = 9084

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 9292 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N04.D
 Acq On : 7 Jul 2021 9:19 pm
 Operator : VOA104:JC
 Sample : I8260STD1PPB
 Misc : WG1521748,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 13:32:22 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	228437	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery =	92.98%		
59) Chlorobenzene-d5	9.063	117	185071	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery =	101.75%		
79) 1,4-Dichlorobenzene-d4	11.852	152	103075	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery =	112.42%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.810	113	75465	21.688	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.44%		
43) 1,2-Dichloroethane-d4	5.314	65	70677	21.426	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.13%		
60) Toluene-d8	7.238	98	229039	19.654	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.27%		
83) 4-Bromofluorobenzene	10.604	95	93894	19.669	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.34%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	3140M1	0.947	ug/L	
3) Chloromethane	1.707	50	4497	1.019	ug/L	90
4) Vinyl chloride	1.722	62	3228M1	0.881	ug/L	
5) Bromomethane	2.000	94	2241	Below Cal		95
6) Chloroethane	2.105	64	1435	0.949	ug/L	80
7) Trichlorofluoromethane	2.226	101	4669	0.978	ug/L	99
8) Ethyl ether	2.493	74	1662	1.004	ug/L #	75
10) 1,1-Dichloroethene	2.677	96	2430	0.881	ug/L	85
11) Carbon disulfide	2.698	76	12049	1.177	ug/L	98
12) Freon-113	2.703	101	2822	0.927	ug/L #	38
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.190	84	13126	1.113	ug/L	81
17) Acetone	3.243	43	2341	1.027	ug/L #	68
18) trans-1,2-Dichloroethene	3.332	96	2901	0.930	ug/L	92
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	3.416	73	7204	0.902	ug/L #	44
21) tert-Butyl alcohol	3.510	59	1769	5.195	ug/L #	89
22) Diisopropyl ether	3.741	45	9828	0.861	ug/L	94
23) 1,1-Dichloroethane	3.882	63	6667	0.950	ug/L	95
24) Halothane	3.935	117	2225	0.880	ug/L	90
25) Acrylonitrile	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N04.D
 Acq On : 7 Jul 2021 9:19 pm
 Operator : VOA104:JC
 Sample : I8260STD1PPB
 Misc : WG1521748,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 13:32:22 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.076	59	8546	0.833	ug/L	# 67
27) Vinyl acetate	0.000		0	N.D.	d	
28) cis-1,2-Dichloroethene	4.381	96	3458	0.989	ug/L	94
29) 2,2-Dichloropropane	4.459	77	4900	0.992	ug/L	91
30) Bromochloromethane	4.575	128	1492	0.927	ug/L	# 62
31) Cyclohexane	4.554	56	6551	0.999	ug/L	84
32) Chloroform	4.637	83	6812	1.112	ug/L	95
33) Ethyl acetate	0.000		0	N.D.	d	
34) Carbon tetrachloride	4.742	117	3788	0.829	ug/L	97
35) Tetrahydrofuran	4.790	42	1032	1.010	ug/L	# 57
37) 1,1,1-Trichloroethane	4.816	97	4705	0.969	ug/L	93
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	4.936	75	3410	0.863	ug/L	93
41) Benzene	5.177	78	10562	0.910	ug/L	95
42) tert-Amyl methyl ether	5.282	73	6324	0.872	ug/L	95
44) 1,2-Dichloroethane	5.382	62	4562	1.000	ug/L	97
47) Methyl cyclohexane	5.728	83	3879	0.827	ug/L	# 63
48) Trichloroethene	5.759	95	2881	0.902	ug/L	91
50) Dibromomethane	6.210	93	1827	0.983	ug/L	89
51) 1,2-Dichloropropane	6.294	63	3673	0.951	ug/L	# 87
53) 2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54) Bromodichloromethane	6.373	83	4008	0.911	ug/L	# 96
57) 1,4-Dioxane	6.604	88	725M1	28.694	ug/L	
58) cis-1,3-Dichloropropene	7.065	75	4048	0.853	ug/L	# 86
61) Toluene	7.296	92	7389	0.955	ug/L	97
62) 4-Methyl-2-pentanone	7.747	58	745	0.655	ug/L	# 42
63) Tetrachloroethene	7.741	166	3130	0.863	ug/L	96
65) trans-1,3-Dichloropropene	7.815	75	3149M1	0.722	ug/L	
67) Ethyl methacrylate	7.993	69	3116M1	0.870	ug/L	
68) 1,1,2-Trichloroethane	7.977	83	1879	0.869	ug/L	96
69) Chlorodibromomethane	8.182	129	2551	0.794	ug/L	98
70) 1,3-Dichloropropane	8.297	76	3330	0.785	ug/L	99
71) 1,2-Dibromoethane	8.460	107	1883	0.909	ug/L	92
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	9.084	112	7972	0.894	ug/L	# 74
74) Ethylbenzene	9.120	91	15422	1.022	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.173	131	2680	0.825	ug/L	# 87
76) p/m Xylene	9.314	106	13512	1.662	ug/L	99
77) o Xylene	9.854	106	11846	1.997	ug/L	100
78) Styrene	9.938	104	18032	1.916	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N04.D
 Acq On : 7 Jul 2021 9:19 pm
 Operator : VOA104:JC
 Sample : I8260STD1PPB
 Misc : WG1521748,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 13:32:22 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.964	173	1672	0.730	ug/L	89
82)	Isopropylbenzene	10.258	105	14111	0.865	ug/L	96
84)	Bromobenzene	10.719	156	3324	0.840	ug/L	95
85)	n-Propylbenzene	10.767	91	15516	0.849	ug/L	96
86)	1,4-Dichlorobutane	10.803	55	6309M1	0.973	ug/L	
87)	1,1,2,2-Tetrachloroethane	10.882	83	3252	0.958	ug/L	95
88)	4-Ethyltoluene	10.903	105	13536	0.860	ug/L	100
89)	2-Chlorotoluene	10.945	91	10067	0.919	ug/L	94
90)	1,3,5-Trimethylbenzene	11.003	105	11956	0.894	ug/L	94
91)	1,2,3-Trichloropropane	11.018	75	2671	1.017	ug/L	86
92)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d	
93)	4-Chlorotoluene	11.139	91	9954	0.875	ug/L	97
94)	tert-Butylbenzene	11.349	119	9676	0.856	ug/L	96
97)	1,2,4-Trimethylbenzene	11.438	105	12051	0.902	ug/L	97
98)	sec-Butylbenzene	11.548	105	15451	0.871	ug/L	95
99)	p-Isopropyltoluene	11.710	119	12251	0.852	ug/L	95
100)	1,3-Dichlorobenzene	11.784	146	6841	0.877	ug/L	98
101)	1,4-Dichlorobenzene	11.868	146	7406M3	0.929	ug/L	
102)	p-Diethylbenzene	12.093	119	7492	0.886	ug/L	97
103)	n-Butylbenzene	12.156	91	11296	0.885	ug/L	99
104)	1,2-Dichlorobenzene	12.308	146	6512	0.885	ug/L	97
105)	1,2,4,5-Tetramethylben...	12.900	119	12465	0.908	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.100	155	399	0.706	ug/L	80
107)	1,3,5-Trichlorobenzene	13.126	180	4909	0.884	ug/L	97
108)	Hexachlorobutadiene	13.703	225	2748	0.870	ug/L	97
109)	1,2,4-Trichlorobenzene	13.734	180	4803	0.941	ug/L	97
110)	Naphthalene	14.028	128	10850	0.999	ug/L	100
111)	1,2,3-Trichlorobenzene	14.196	180	4383	0.943	ug/L	99

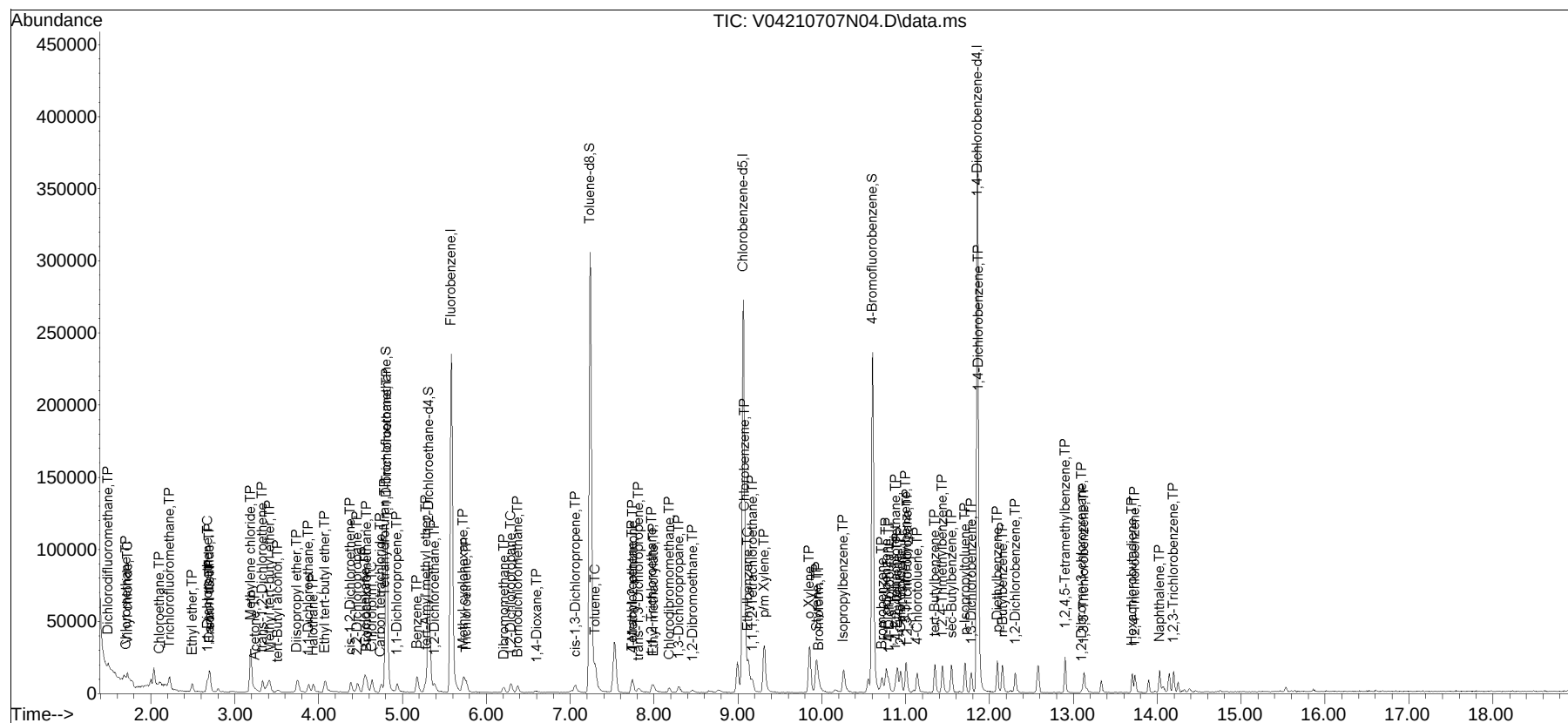
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N04.D
 Acq On : 7 Jul 2021 9:19 pm
 Operator : VOA104:JC
 Sample : I8260STD1PPB
 Misc : WG1521748,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 13:32:22 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

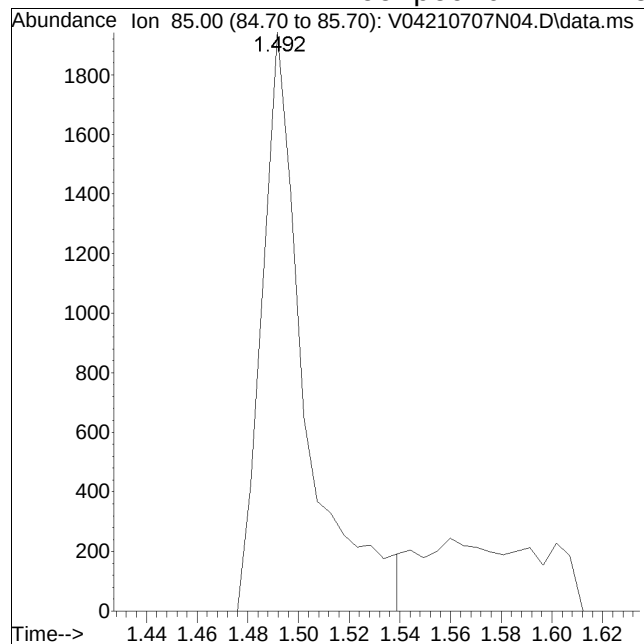
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

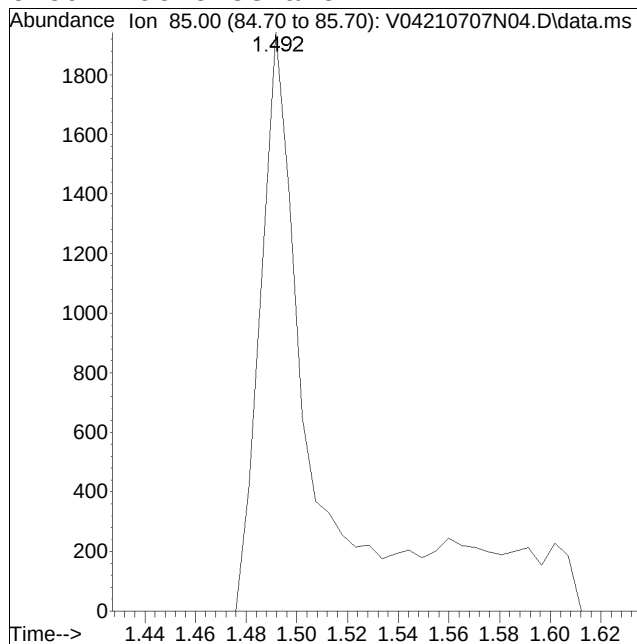
Data Path : I:\VOLATILES\V0A104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N04.D Operator : V0A104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 2312

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

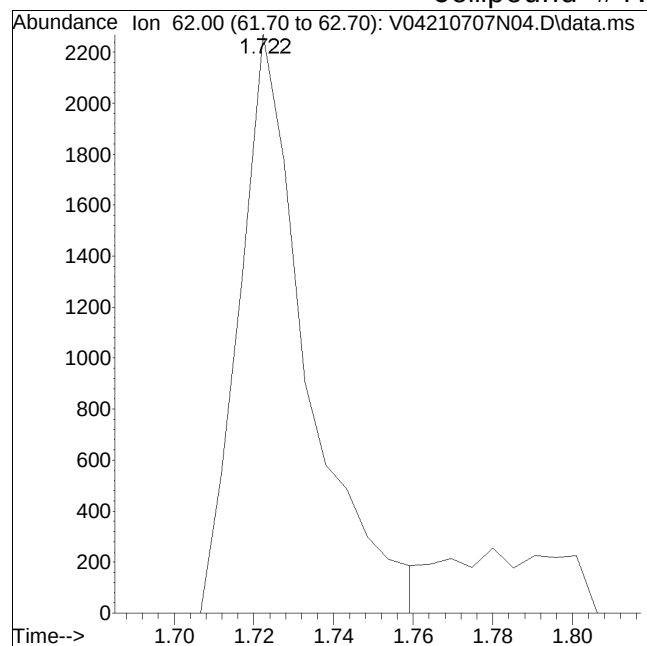


Manual Peak Response = 3140 M1

Manual Integration Report

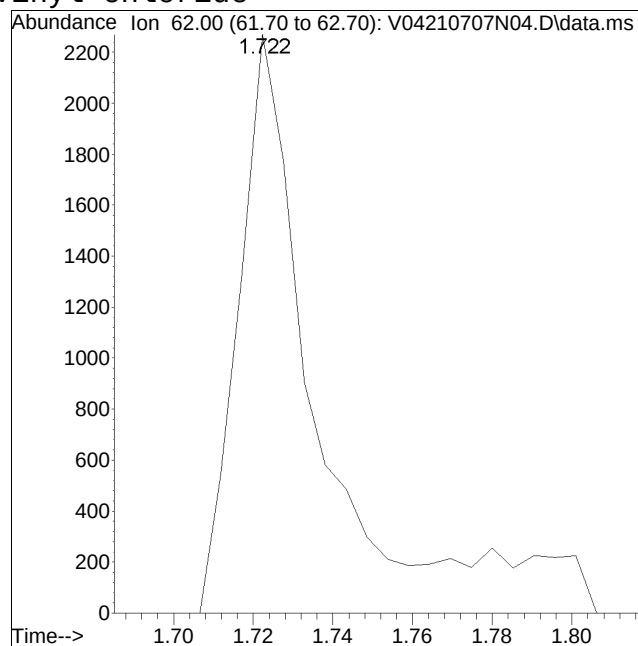
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N04.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #4: Vinyl chloride



Original Peak Response = 2698

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

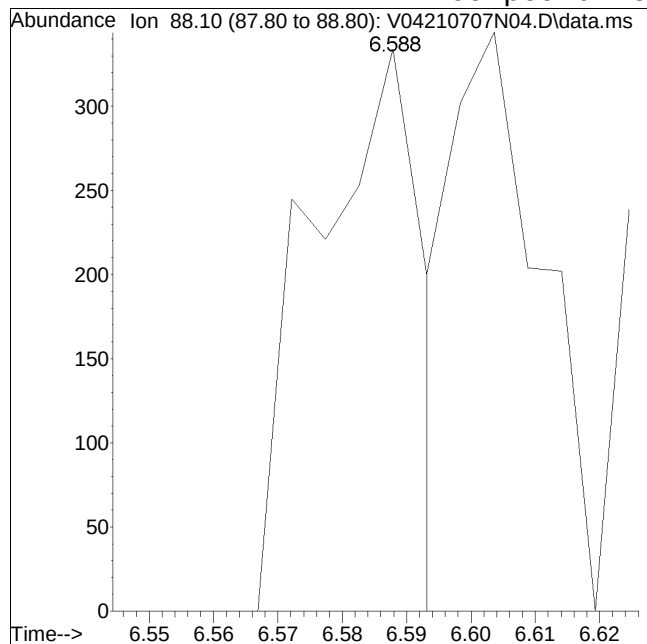


Manual Peak Response = 3228 M1

Manual Integration Report

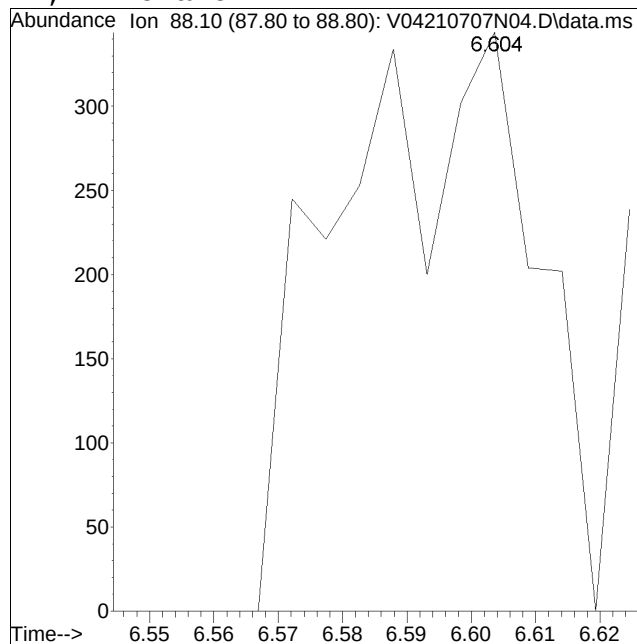
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N04.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 394

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



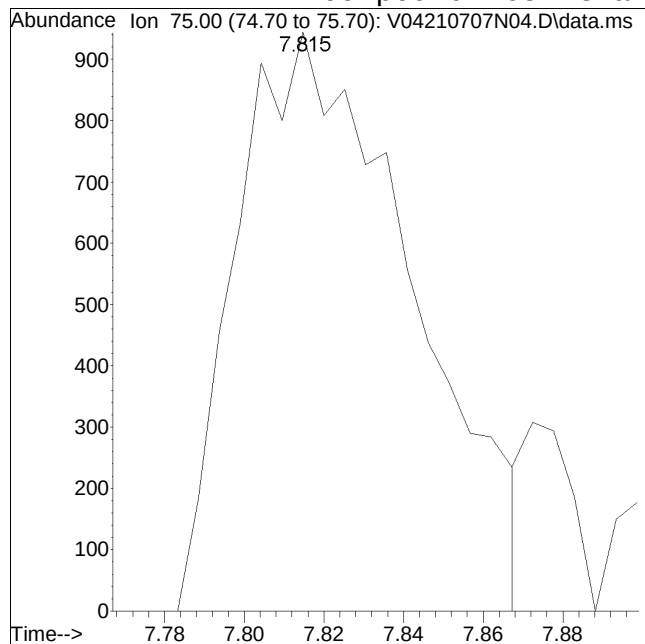
Manual Peak Response = 725 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04210707N04.D
Date Inj'd : 7/7/2021 9:19 pm
Sample : I8260STD1PPB

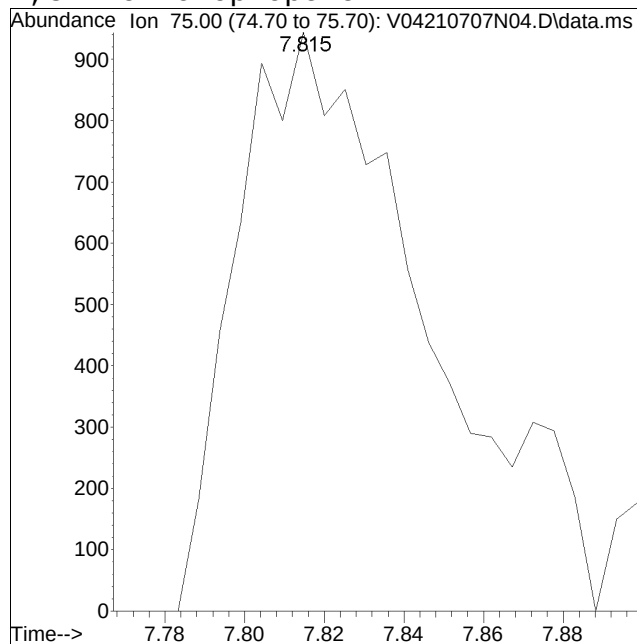
Method : V104_210707N_8260.m
Operator : VOA104:JC
Instrument : SV104
Quant Date : 7/8/2021 1:32 pm

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 2901

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

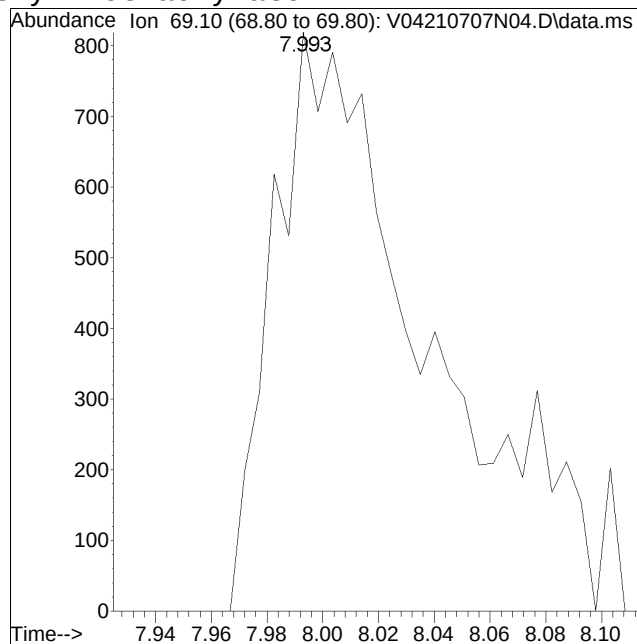
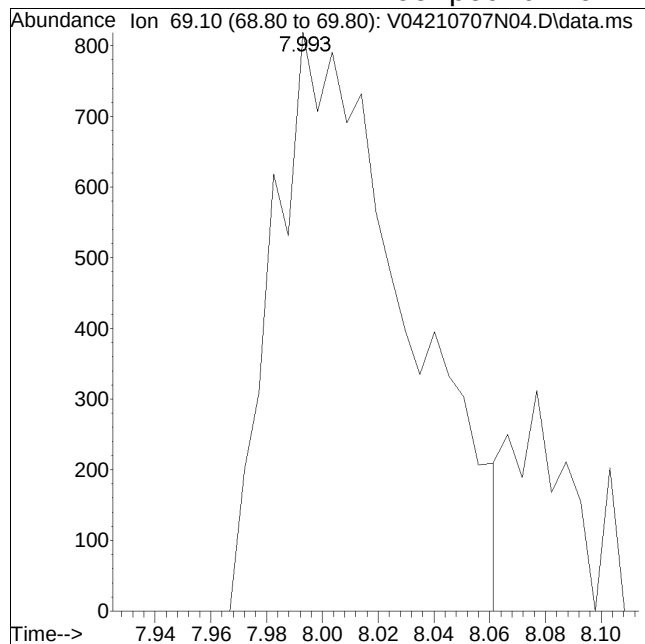


Manual Peak Response = 3149 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N04.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 2711

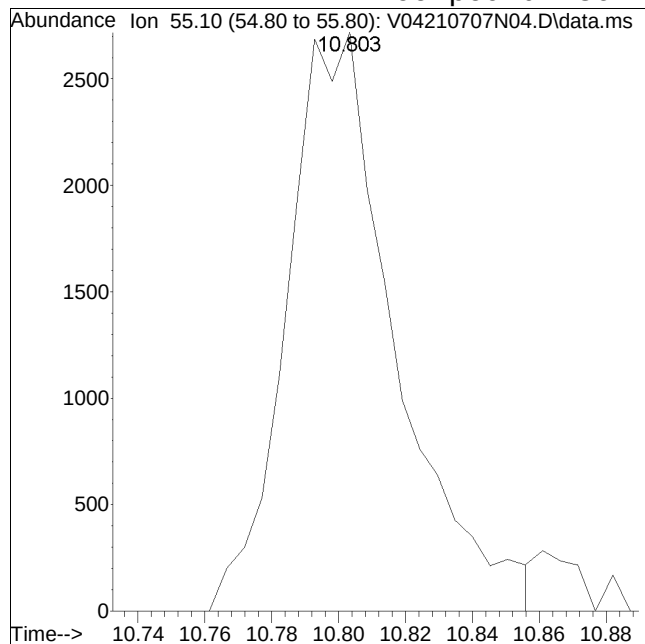
Manual Peak Response = 3116 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

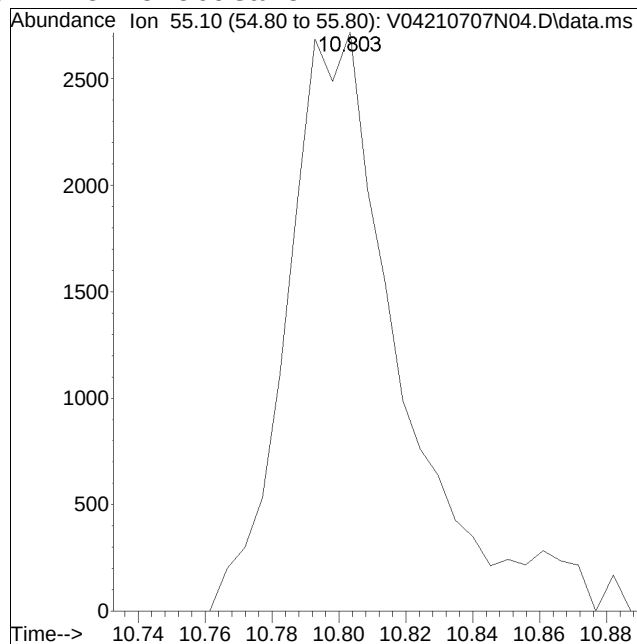
Data Path : I:\VOLATILES\VOA104\2021\20 Method : V104_210707N_8260.m
Data File : V04210707N04.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #86: 1,4-Dichlorobutane



Original Peak Response = 6078

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

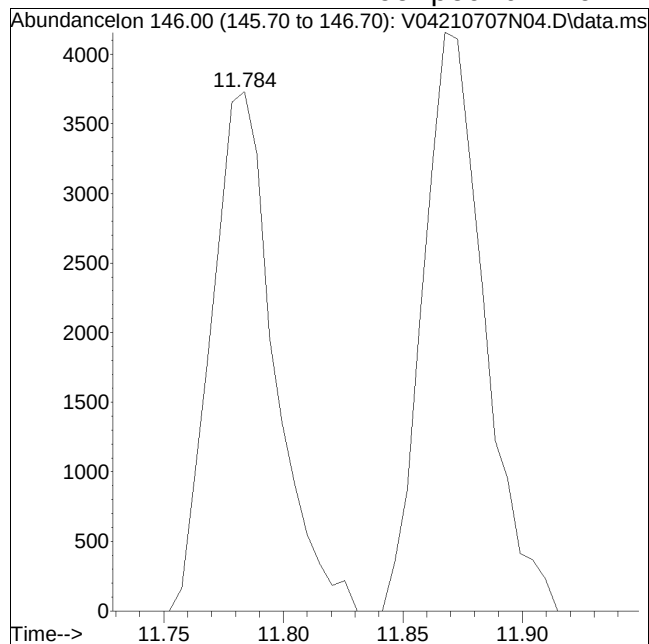


Manual Peak Response = 6309 M1

Manual Integration Report

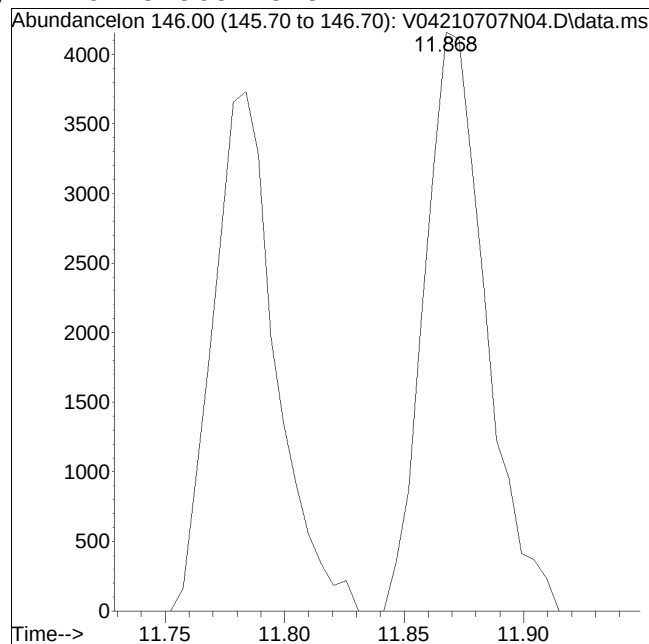
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N04.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:19 pm Instrument : SV104
Sample : I8260STD1PPB Quant Date : 7/8/2021 1:32 pm

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 6841

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 7406 M3

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N05.D
 Acq On : 7 Jul 2021 9:44 pm
 Operator : VOA104:JC
 Sample : I8260STD2PPB
 Misc : WG1521748,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 13:33:06 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	227413	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery =	92.56%		
59) Chlorobenzene-d5	9.063	117	184946	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery =	101.68%		
79) 1,4-Dichlorobenzene-d4	11.857	152	103881	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery =	113.30%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	74549	21.521	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.60%		
43) 1,2-Dichloroethane-d4	5.314	65	70799	21.560	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.80%		
60) Toluene-d8	7.238	98	229288	19.689	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.45%		
83) 4-Bromofluorobenzene	10.604	95	93056	19.342	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.71%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	7102M1	2.151	ug/L	
3) Chloromethane	1.696	50	9535	2.170	ug/L	94
4) Vinyl chloride	1.722	62	8038M1	2.203	ug/L	
5) Bromomethane	2.000	94	4915	1.402	ug/L	97
6) Chloroethane	2.105	64	3577M1	2.376	ug/L	
7) Trichlorofluoromethane	2.226	101	10104	2.127	ug/L	99
8) Ethyl ether	2.493	74	3551	2.154	ug/L #	83
10) 1,1-Dichloroethene	2.671	96	5723	2.085	ug/L	87
11) Carbon disulfide	2.698	76	23462	2.302	ug/L	98
12) Freon-113	2.703	101	6520	2.152	ug/L #	65
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.190	84	16650	2.309	ug/L	82
17) Acetone	3.248	43	2995	2.094	ug/L #	75
18) trans-1,2-Dichloroethene	3.332	96	6726	2.166	ug/L	91
19) Methyl acetate	3.353	43	2861	1.639	ug/L #	91
20) Methyl tert-butyl ether	3.416	73	15968	2.008	ug/L #	71
21) tert-Butyl alcohol	3.510	59	3325	9.808	ug/L #	77
22) Diisopropyl ether	3.746	45	21542	1.897	ug/L	96
23) 1,1-Dichloroethane	3.882	63	15264	2.186	ug/L	100
24) Halothane	3.935	117	5245	2.083	ug/L	98
25) Acrylonitrile	3.961	53	1655M3	1.581	ug/L	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N05.D
 Acq On : 7 Jul 2021 9:44 pm
 Operator : VOA104:JC
 Sample : I8260STD2PPB
 Misc : WG1521748,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 13:33:06 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.076	59	19553	1.915	ug/L	# 64
27) Vinyl acetate	4.129	43	13006M1	1.876	ug/L	
28) cis-1,2-Dichloroethene	4.386	96	7313	2.101	ug/L	89
29) 2,2-Dichloropropane	4.470	77	10454	2.125	ug/L	97
30) Bromochloromethane	4.569	128	3406	2.125	ug/L	# 75
31) Cyclohexane	4.543	56	14065	2.155	ug/L	86
32) Chloroform	4.637	83	14027	2.300	ug/L	98
33) Ethyl acetate	4.763	43	4309	1.658	ug/L	# 81
34) Carbon tetrachloride	4.748	117	9081	1.995	ug/L	99
35) Tetrahydrofuran	4.784	42	2209	2.171	ug/L	# 82
37) 1,1,1-Trichloroethane	4.816	97	10283	2.127	ug/L	95
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	4.942	75	8194	2.082	ug/L	97
41) Benzene	5.178	78	24120	2.087	ug/L	96
42) tert-Amyl methyl ether	5.277	73	14187	1.965	ug/L	93
44) 1,2-Dichloroethane	5.387	62	9781	2.154	ug/L	98
47) Methyl cyclohexane	5.733	83	9158	1.961	ug/L	# 75
48) Trichloroethene	5.759	95	6192	1.946	ug/L	91
50) Dibromomethane	6.205	93	3708	2.004	ug/L	99
51) 1,2-Dichloropropane	6.294	63	7951	2.068	ug/L	93
53) 2-Chloroethyl vinyl ether	7.007	63	2966	1.533	ug/L	# 79
54) Bromodichloromethane	6.373	83	9540	2.179	ug/L	# 95
57) 1,4-Dioxane	6.593	88	1813	72.078	ug/L	# 81
58) cis-1,3-Dichloropropene	7.055	75	8714	1.845	ug/L	89
61) Toluene	7.301	92	15473	2.000	ug/L	94
62) 4-Methyl-2-pentanone	7.752	58	2183	1.920	ug/L	# 89
63) Tetrachloroethene	7.736	166	7178	1.981	ug/L	99
65) trans-1,3-Dichloropropene	7.804	75	7522	1.726	ug/L	98
67) Ethyl methacrylate	7.993	69	6914M1	1.932	ug/L	
68) 1,1,2-Trichloroethane	7.977	83	4041	1.871	ug/L	99
69) Chlorodibromomethane	8.182	129	6065	1.890	ug/L	99
70) 1,3-Dichloropropane	8.292	76	7872	1.856	ug/L	100
71) 1,2-Dibromoethane	8.454	107	4866	1.930	ug/L	100
72) 2-Hexanone	8.769	43	5498M1	2.528	ug/L	
73) Chlorobenzene	9.089	112	18505	2.076	ug/L	90
74) Ethylbenzene	9.126	91	31235	2.071	ug/L	95
75) 1,1,1,2-Tetrachloroethane	9.173	131	6063	1.867	ug/L	91
76) p/m Xylene	9.309	106	27801	4.257	ug/L	97
77) o Xylene	9.854	106	25232	4.256	ug/L	98
78) Styrene	9.928	104	40288	4.284	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N05.D
 Acq On : 7 Jul 2021 9:44 pm
 Operator : VOA104:JC
 Sample : I8260STD2PPB
 Misc : WG1521748,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 13:33:06 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	3561	1.542	ug/L	100
82)	Isopropylbenzene	10.258	105	31055	1.890	ug/L	100
84)	Bromobenzene	10.719	156	7453	1.868	ug/L	98
85)	n-Propylbenzene	10.767	91	35697	1.937	ug/L	98
86)	1,4-Dichlorobutane	10.798	55	12579	1.924	ug/L	95
87)	1,1,2,2-Tetrachloroethane	10.882	83	6486	1.896	ug/L	99
88)	4-Ethyltoluene	10.898	105	30250	1.908	ug/L	99
89)	2-Chlorotoluene	10.940	91	21981M1	1.990	ug/L	
90)	1,3,5-Trimethylbenzene	11.003	105	25497	1.891	ug/L	99
91)	1,2,3-Trichloropropane	11.013	75	5092	1.923	ug/L	92
92)	trans-1,4-Dichloro-2-b...	11.092	53	2073	1.694	ug/L #	90
93)	4-Chlorotoluene	11.134	91	23089	2.013	ug/L	95
94)	tert-Butylbenzene	11.349	119	21788	1.912	ug/L	99
97)	1,2,4-Trimethylbenzene	11.438	105	25555	1.897	ug/L	100
98)	sec-Butylbenzene	11.548	105	35523	1.988	ug/L	98
99)	p-Isopropyltoluene	11.705	119	28041	1.936	ug/L	98
100)	1,3-Dichlorobenzene	11.778	146	14982	1.906	ug/L	98
101)	1,4-Dichlorobenzene	11.873	146	16459M3	2.049	ug/L	
102)	p-Diethylbenzene	12.093	119	16332	1.917	ug/L	98
103)	n-Butylbenzene	12.151	91	25590	1.989	ug/L	98
104)	1,2-Dichlorobenzene	12.303	146	15007	2.024	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.900	119	26935	1.947	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.100	155	874	1.533	ug/L	81
107)	1,3,5-Trichlorobenzene	13.126	180	11115	1.985	ug/L	98
108)	Hexachlorobutadiene	13.703	225	6161	1.936	ug/L	99
109)	1,2,4-Trichlorobenzene	13.734	180	10113	1.966	ug/L	95
110)	Naphthalene	14.028	128	21279	1.944	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	9366	1.999	ug/L	98

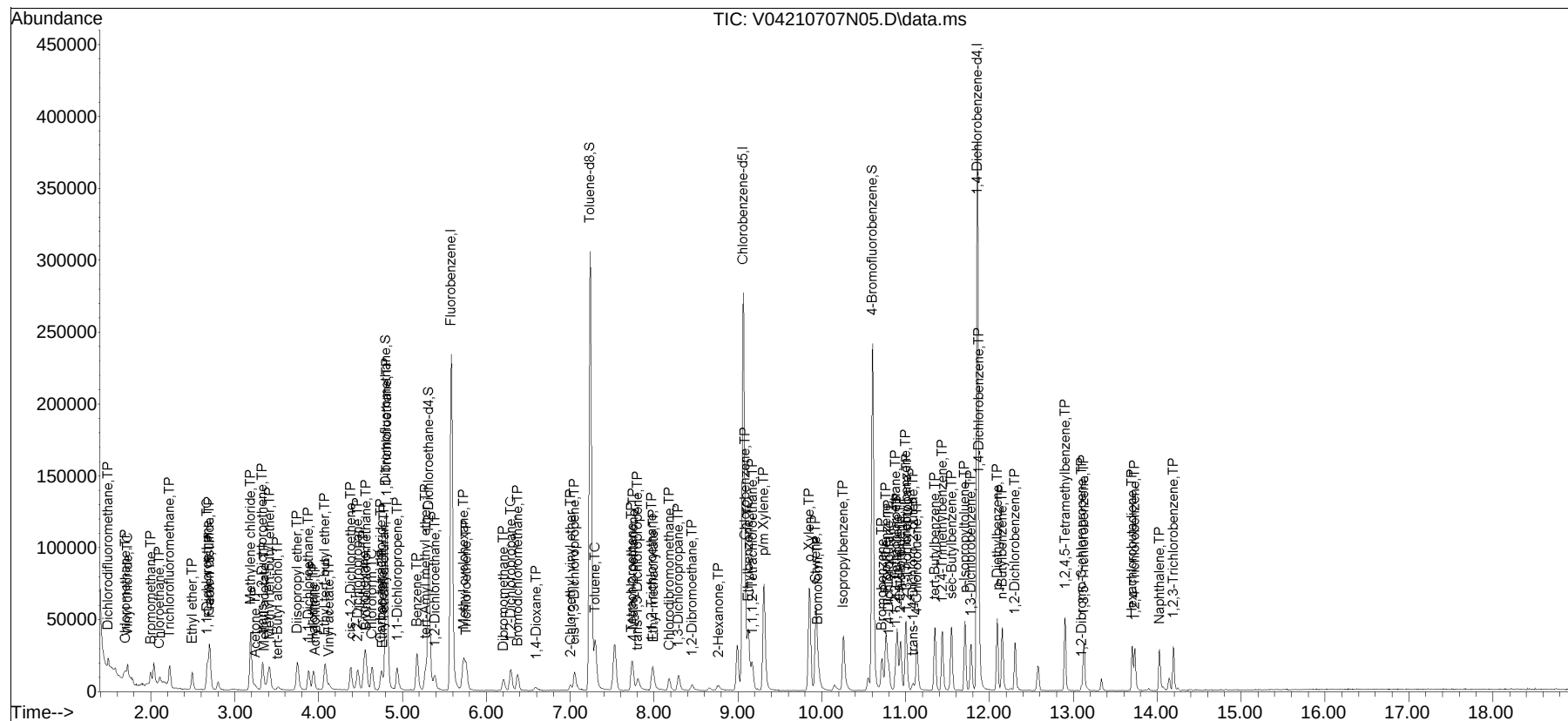
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N05.D
 Acq On : 7 Jul 2021 9:44 pm
 Operator : VOA104:JC
 Sample : I8260STD2PPB
 Misc : WG1521748,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 13:33:06 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:32:17 2021
 Response via : Initial Calibration

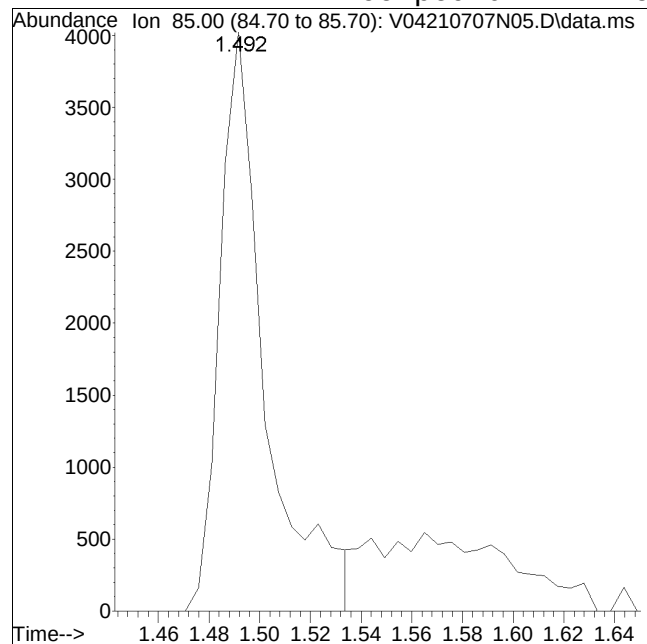
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

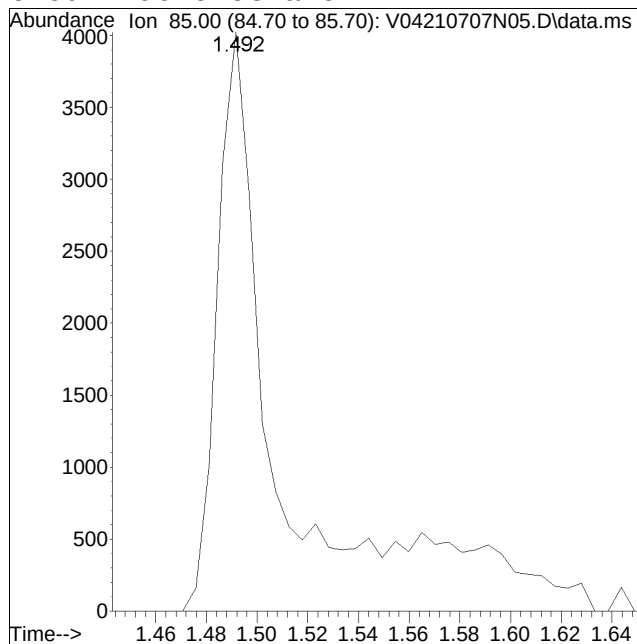
Data Path : I:\VOLATILES\V0A104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N05.D Operator : V0A104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 4999

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

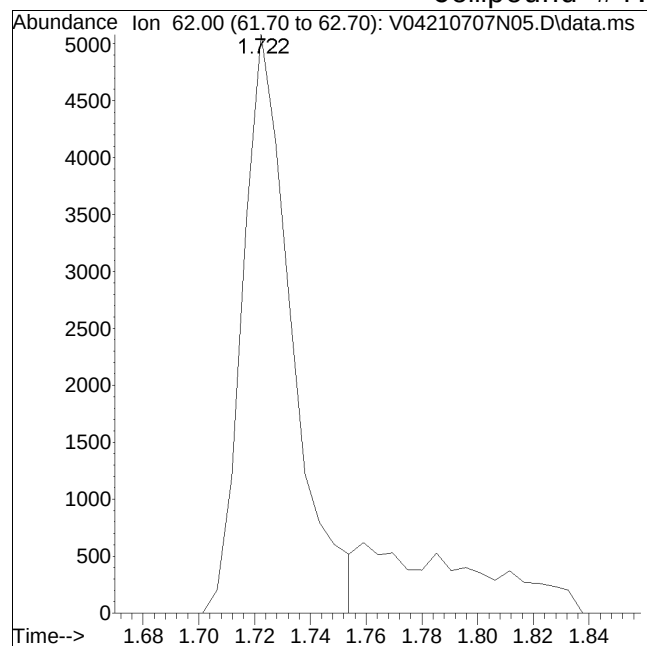


Manual Peak Response = 7102 M1

Manual Integration Report

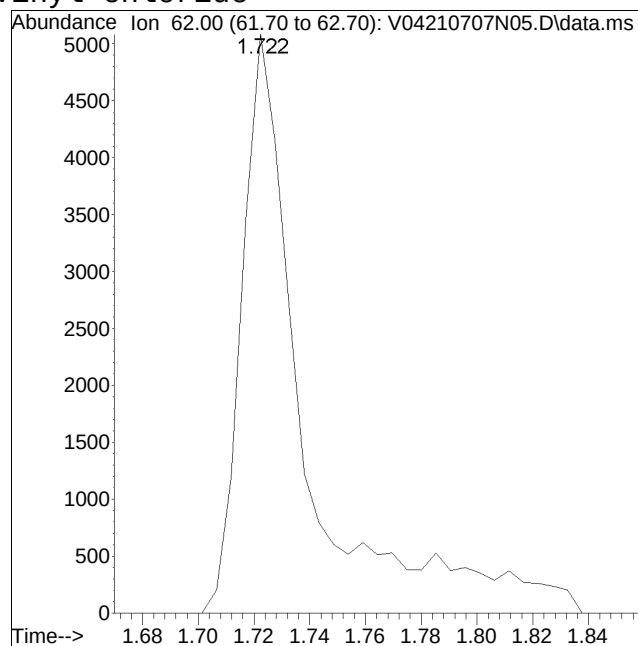
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #4: Vinyl chloride



Original Peak Response = 6244

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

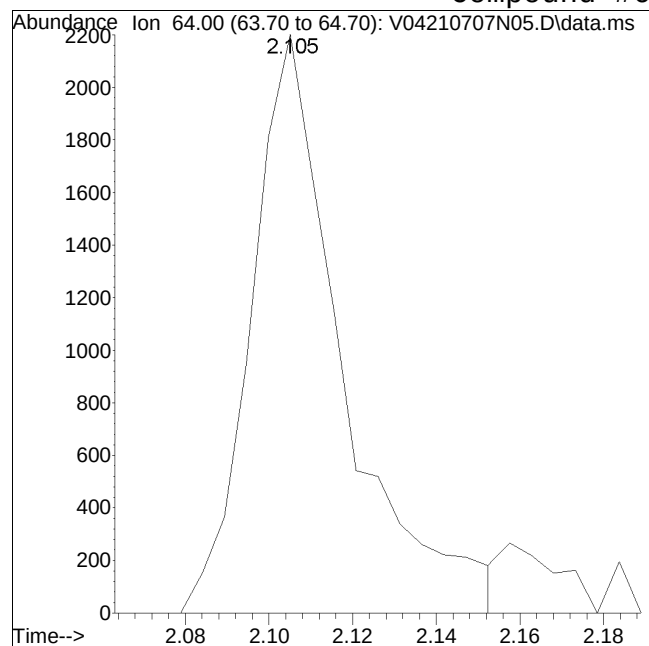


Manual Peak Response = 8038 M1

Manual Integration Report

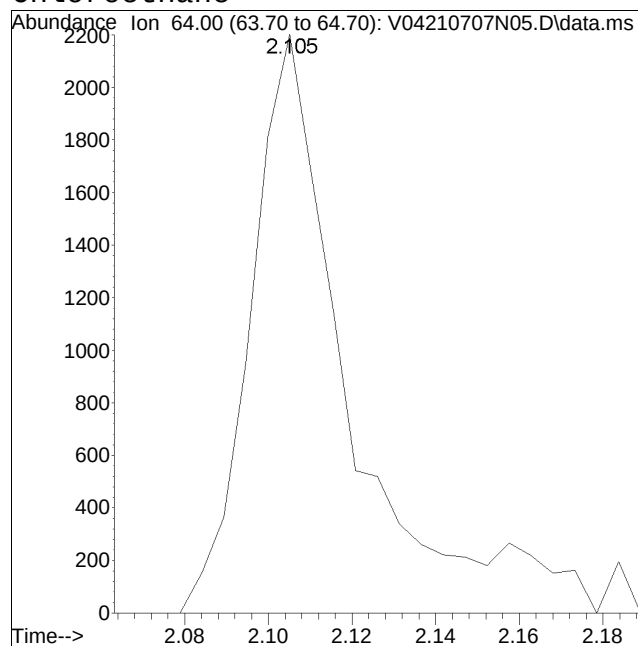
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #6: Chloroethane



Original Peak Response = 3325

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

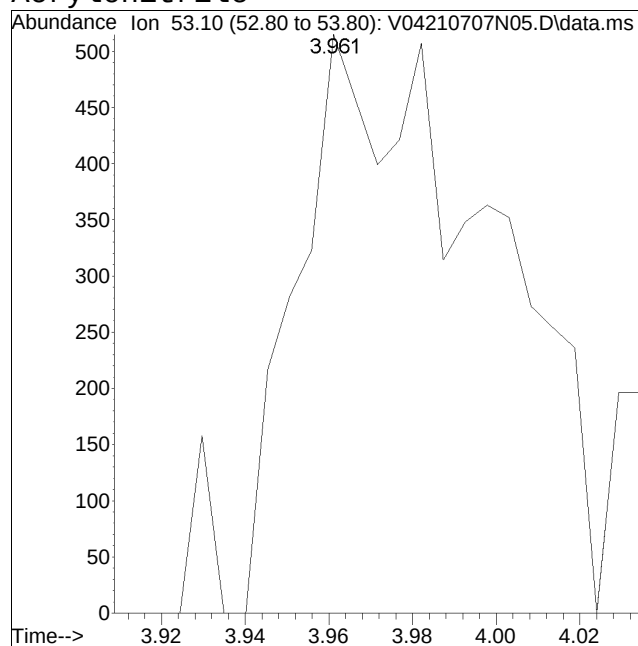
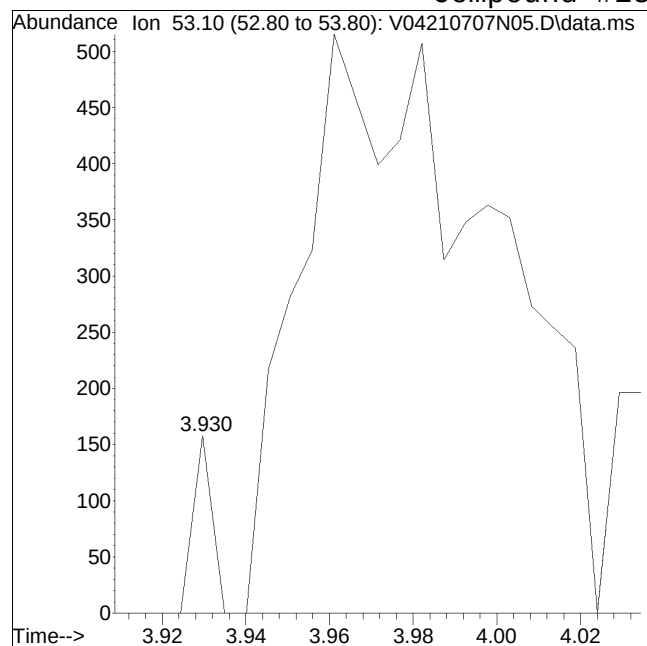


Manual Peak Response = 3577 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #25: Acrylonitrile



Original Peak Response = 50

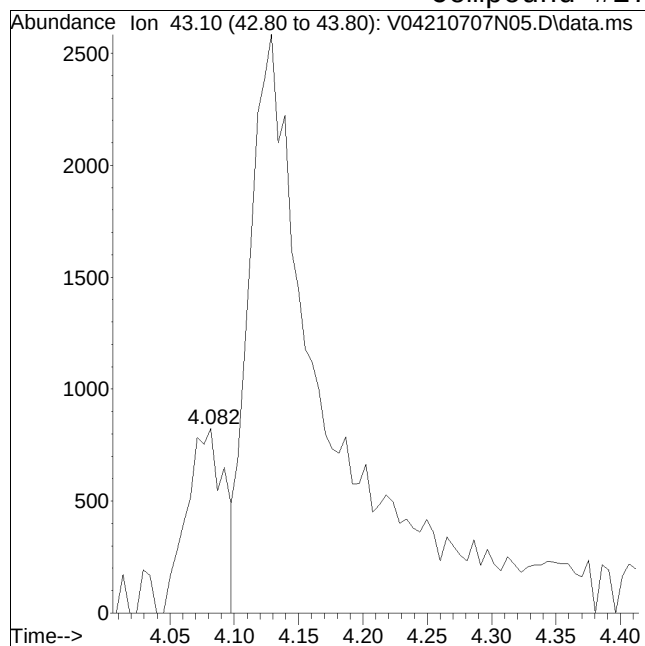
Manual Peak Response = 1655 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

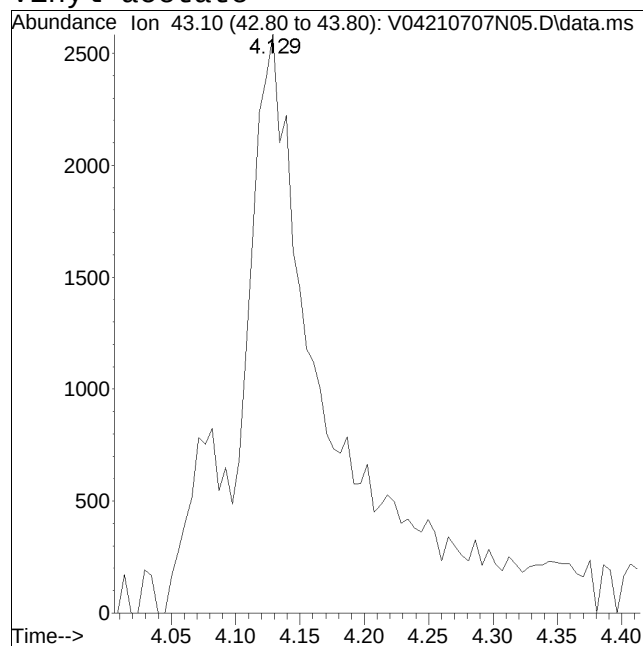
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #27: Vinyl acetate



Original Peak Response = 1702

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



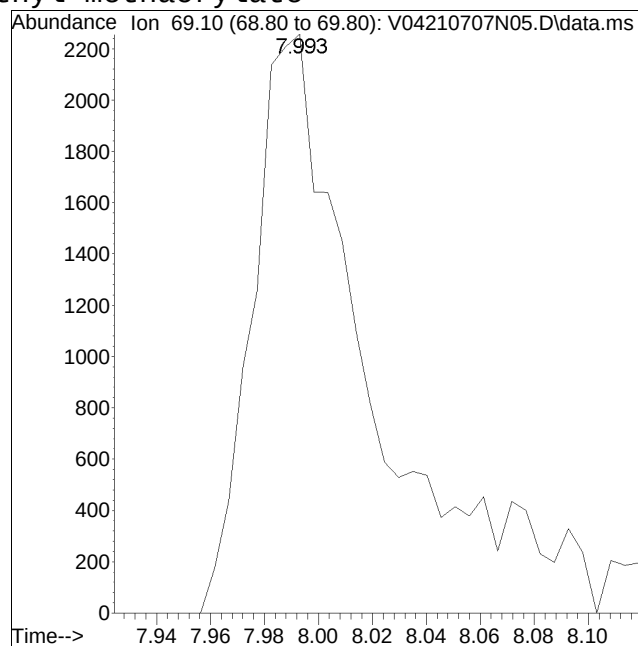
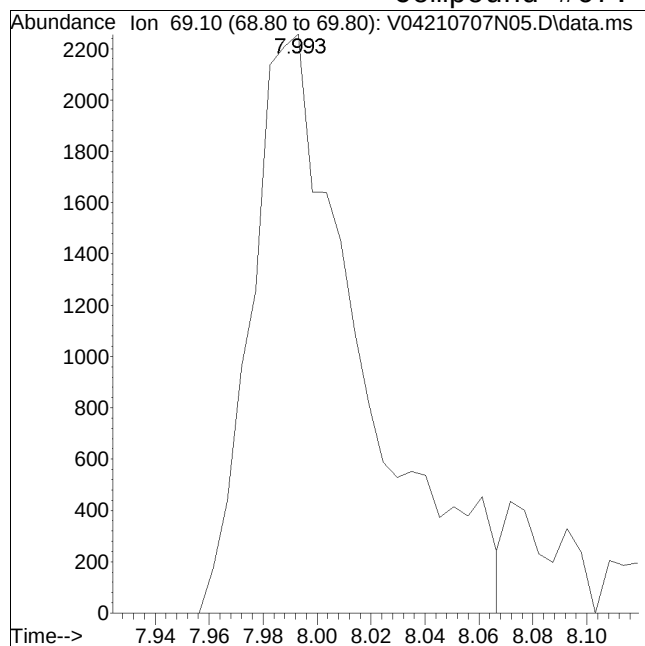
Manual Peak Response = 13006 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04210707N05.D
Date Inj'd : 7/7/2021 9:44 pm
Sample : I8260STD2PPB

Method : V104_210707N_8260.m
Operator : VOA104:JC
Instrument : SV104
Quant Date : 7/8/2021 1:33 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 6337

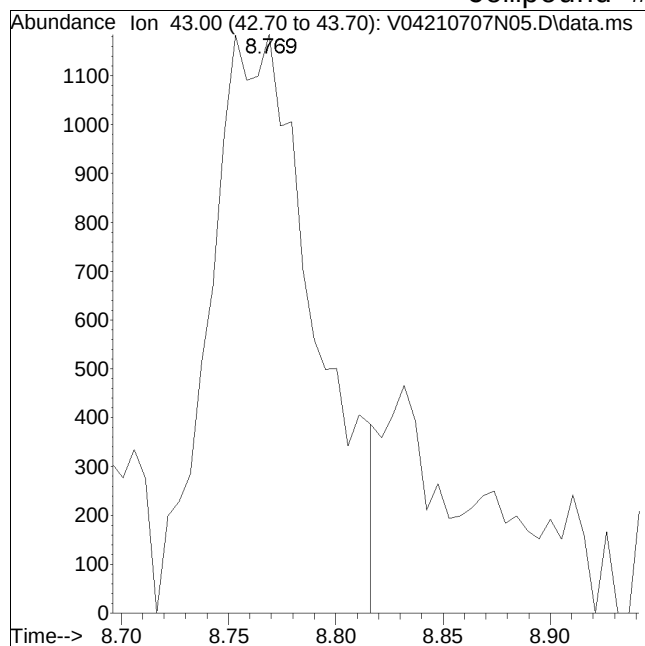
Manual Peak Response = 6914 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

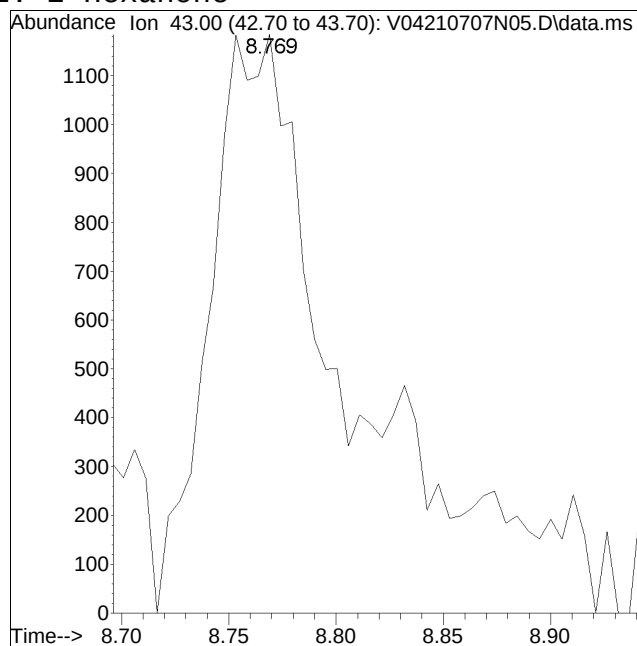
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #72: 2-Hexanone



Original Peak Response = 4037

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

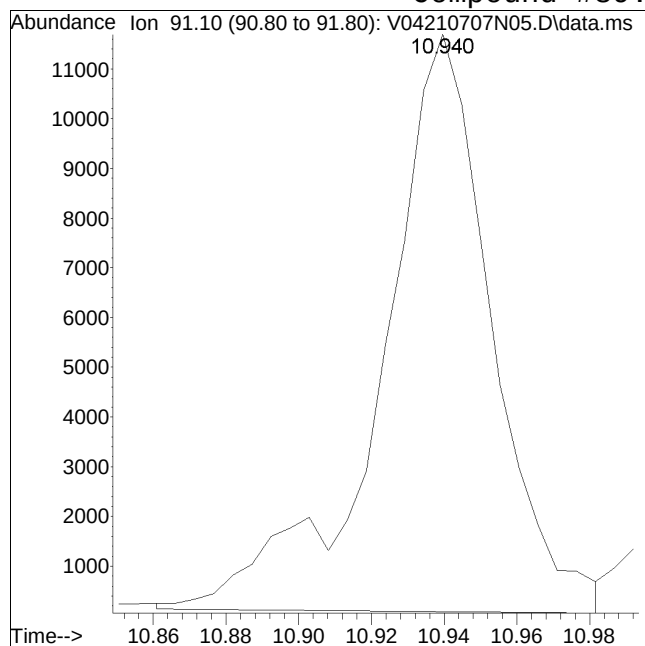


Manual Peak Response = 5498 M1

Manual Integration Report

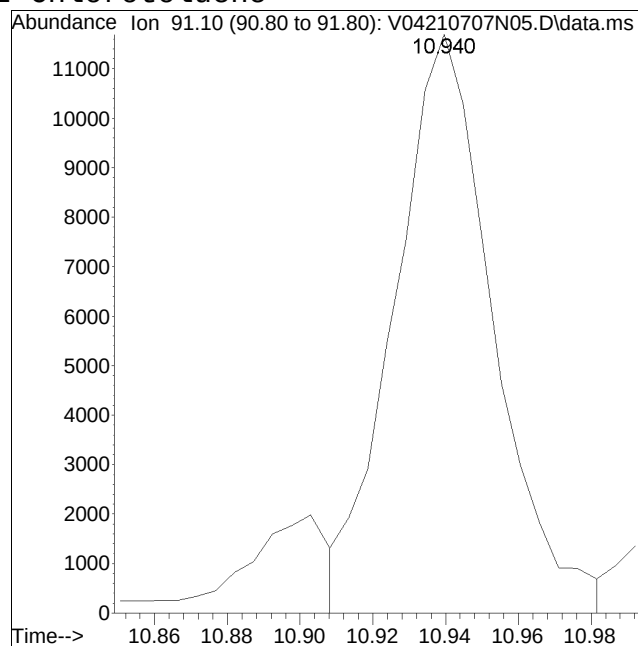
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 24272

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

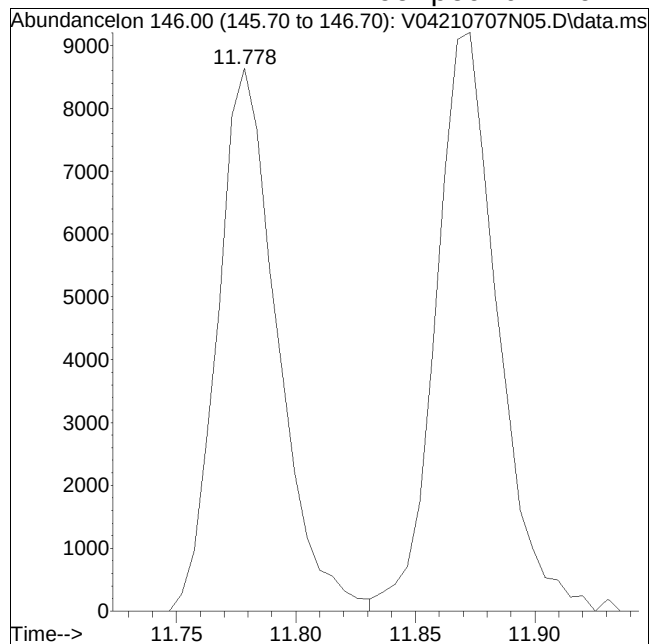


Manual Peak Response = 21981 M1

Manual Integration Report

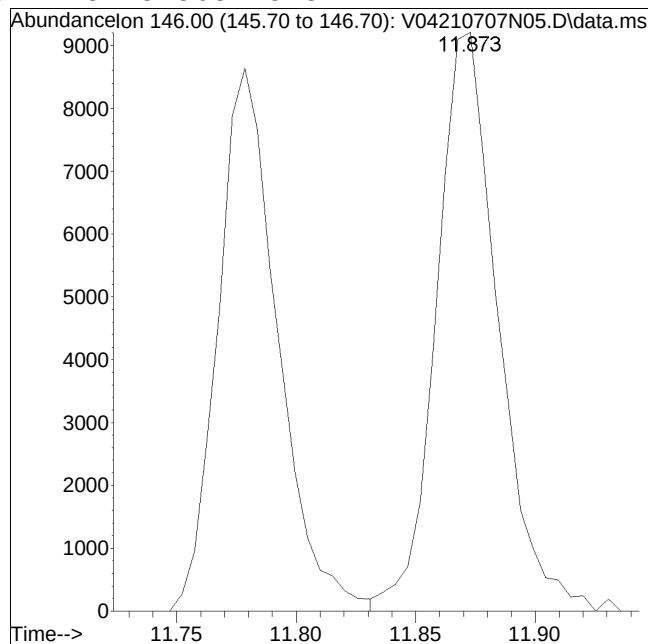
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N05.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 9:44 pm Instrument : SV104
Sample : I8260STD2PPB Quant Date : 7/8/2021 1:33 pm

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 14982

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 16459 M3

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N06.D
 Acq On : 7 Jul 2021 10:09 pm
 Operator : VOA104:JC
 Sample : I8260STD4PPB
 Misc : WG1521748,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:33:44 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:33:39 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	232665	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery	=	94.70%	
59) Chlorobenzene-d5	9.063	117	186834	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery	=	102.72%	
79) 1,4-Dichlorobenzene-d4	11.857	152	101595	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery	=	110.81%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	75121	21.197	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	105.99%	
43) 1,2-Dichloroethane-d4	5.314	65	71525	21.289	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	106.45%	
60) Toluene-d8	7.238	98	232605	19.772	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	98.86%	
83) 4-Bromofluorobenzene	10.604	95	93282	19.825	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	99.13%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	14362M1	4.251	ug/L	
3) Chloromethane	1.701	50	19705	4.383	ug/L	97
4) Vinyl chloride	1.722	62	16249M1	4.354	ug/L	
5) Bromomethane	2.000	94	9697	4.309	ug/L	98
6) Chloroethane	2.105	64	7191M1	4.668	ug/L	
7) Trichlorofluoromethane	2.226	101	20991	4.318	ug/L	100
8) Ethyl ether	2.493	74	7163	4.247	ug/L	84
10) 1,1-Dichloroethene	2.671	96	12387	4.411	ug/L	92
11) Carbon disulfide	2.698	76	45949	4.406	ug/L	97
12) Freon-113	2.703	101	13186	4.254	ug/L	# 70
14) Acrolein	2.981	56	1481	3.777	ug/L	# 73
15) Methylene chloride	3.190	84	18512	2.792	ug/L	83
17) Acetone	3.238	43	4474	4.305	ug/L	92
18) trans-1,2-Dichloroethene	3.332	96	13541	4.262	ug/L	88
19) Methyl acetate	3.348	43	7095	3.973	ug/L	95
20) Methyl tert-butyl ether	3.411	73	34066	4.187	ug/L	# 88
21) tert-Butyl alcohol	3.521	59	7382	21.284	ug/L	# 91
22) Diisopropyl ether	3.746	45	46433	3.996	ug/L	96
23) 1,1-Dichloroethane	3.883	63	32187	4.505	ug/L	96
24) Halothane	3.940	117	11249	4.367	ug/L	97
25) Acrylonitrile	3.956	53	4900M1	4.577	ug/L	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N06.D
 Acq On : 7 Jul 2021 10:09 pm
 Operator : VOA104:JC
 Sample : I8260STD4PPB
 Misc : WG1521748,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:33:44 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:33:39 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
26) Ethyl tert-butyl ether	4.077	59	41704	3.992	ug/L	#	65
27) Vinyl acetate	4.113	43	27538M1	3.883	ug/L		
28) cis-1,2-Dichloroethene	4.381	96	15585	4.376	ug/L		90
29) 2,2-Dichloropropane	4.465	77	22548	4.480	ug/L		98
30) Bromochloromethane	4.569	128	7465	4.552	ug/L	#	79
31) Cyclohexane	4.548	56	29776	4.459	ug/L		83
32) Chloroform	4.638	83	28249	4.527	ug/L		98
33) Ethyl acetate	4.753	43	10645	4.004	ug/L		97
34) Carbon tetrachloride	4.748	117	20328	4.366	ug/L		97
35) Tetrahydrofuran	4.784	42	4445	4.270	ug/L	#	88
37) 1,1,1-Trichloroethane	4.811	97	21301	4.307	ug/L		95
39) 2-Butanone	4.936	43	7261M1	3.599	ug/L		
40) 1,1-Dichloropropene	4.936	75	17706	4.398	ug/L		98
41) Benzene	5.172	78	50676	4.285	ug/L		96
42) tert-Amyl methyl ether	5.272	73	29262	3.962	ug/L		95
44) 1,2-Dichloroethane	5.387	62	20182	4.344	ug/L		98
47) Methyl cyclohexane	5.728	83	19543	4.090	ug/L	#	76
48) Trichloroethene	5.760	95	13891	4.268	ug/L		99
50) Dibromomethane	6.200	93	7974	4.212	ug/L		95
51) 1,2-Dichloropropane	6.294	63	16333	4.152	ug/L		98
53) 2-Chloroethyl vinyl ether	6.997	63	6799M1	3.434	ug/L		
54) Bromodichloromethane	6.373	83	19136	4.272	ug/L		98
57) 1,4-Dioxane	6.588	88	6136M1	238.437	ug/L		
58) cis-1,3-Dichloropropene	7.049	75	20894	4.325	ug/L		97
61) Toluene	7.296	92	32072	4.104	ug/L		98
62) 4-Methyl-2-pentanone	7.741	58	4846	4.218	ug/L	#	95
63) Tetrachloroethene	7.736	166	14979	4.092	ug/L		98
65) trans-1,3-Dichloropropene	7.799	75	16863	3.831	ug/L		95
67) Ethyl methacrylate	7.988	69	15102M1	4.178	ug/L		
68) 1,1,2-Trichloroethane	7.972	83	8786	4.026	ug/L		98
69) Chlorodibromomethane	8.182	129	12869	3.969	ug/L		99
70) 1,3-Dichloropropane	8.292	76	17266	4.030	ug/L		100
71) 1,2-Dibromoethane	8.449	107	10546	3.838	ug/L		100
72) 2-Hexanone	8.753	43	9435M1	4.294	ug/L		
73) Chlorobenzene	9.089	112	37271	4.138	ug/L		92
74) Ethylbenzene	9.120	91	63869	4.193	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.173	131	12853	3.918	ug/L		93
76) p/m Xylene	9.309	106	52742	8.688	ug/L		99
77) o Xylene	9.854	106	50846	8.489	ug/L		97
78) Styrene	9.928	104	81315	8.559	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N06.D
 Acq On : 7 Jul 2021 10:09 pm
 Operator : VOA104:JC
 Sample : I8260STD4PPB
 Misc : WG1521748,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:33:44 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 13:33:39 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.959	173	7911	3.504	ug/L	97
82)	Isopropylbenzene	10.258	105	64657	4.023	ug/L	97
84)	Bromobenzene	10.714	156	15414	3.951	ug/L	100
85)	n-Propylbenzene	10.767	91	73635	4.086	ug/L	99
86)	1,4-Dichlorobutane	10.793	55	26721	4.179	ug/L	97
87)	1,1,2,2-Tetrachloroethane	10.877	83	13368	3.996	ug/L	99
88)	4-Ethyltoluene	10.898	105	63909	4.121	ug/L	98
89)	2-Chlorotoluene	10.940	91	43830	4.058	ug/L	100
90)	1,3,5-Trimethylbenzene	11.003	105	55423	4.204	ug/L	96
91)	1,2,3-Trichloropropane	11.013	75	10667	4.119	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.081	53	4410	3.685	ug/L	96
93)	4-Chlorotoluene	11.134	91	45818	4.085	ug/L	100
94)	tert-Butylbenzene	11.349	119	46016	4.128	ug/L	97
97)	1,2,4-Trimethylbenzene	11.433	105	54276	4.120	ug/L	98
98)	sec-Butylbenzene	11.543	105	71452	4.088	ug/L	99
99)	p-Isopropyltoluene	11.705	119	58613	4.138	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	31661	4.118	ug/L	98
101)	1,4-Dichlorobenzene	11.873	146	31626	4.026	ug/L	95
102)	p-Diethylbenzene	12.093	119	33793	4.055	ug/L	98
103)	n-Butylbenzene	12.151	91	51845	4.120	ug/L	100
104)	1,2-Dichlorobenzene	12.303	146	29489	4.067	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.901	119	55257	4.083	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.100	155	1980	3.552	ug/L	90
107)	1,3,5-Trichlorobenzene	13.121	180	21981	4.014	ug/L	98
108)	Hexachlorobutadiene	13.703	225	12916	4.151	ug/L	100
109)	1,2,4-Trichlorobenzene	13.729	180	19793	3.934	ug/L	98
110)	Naphthalene	14.023	128	41246	3.852	ug/L	100
111)	1,2,3-Trichlorobenzene	14.196	180	18225	3.977	ug/L	99

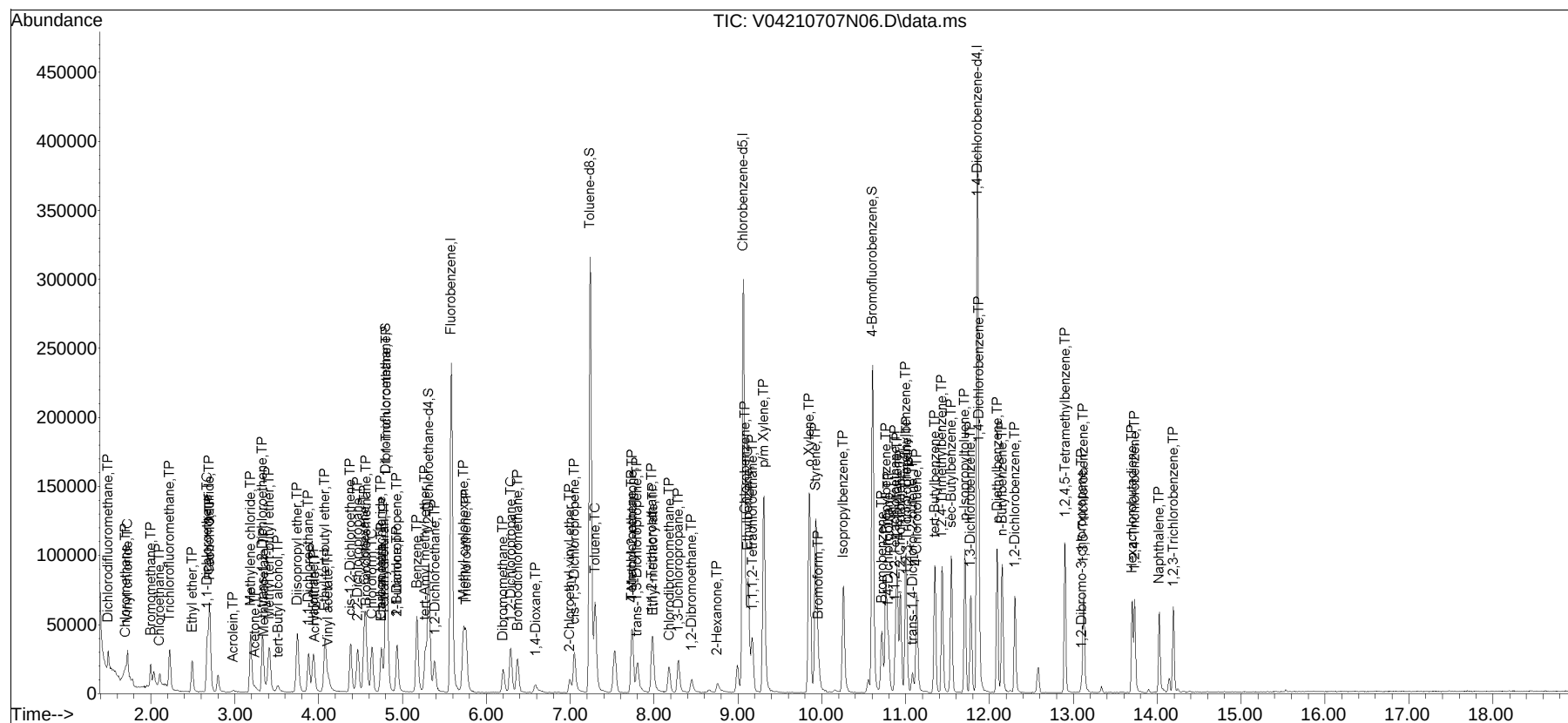
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
Data File : V04210707N06.D
Acq On : 7 Jul 2021 10:09 pm
Operator : VOA104:JC
Sample : I8260STD4PPB
Misc : WG1521748,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:33:44 2021
Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Jul 08 13:33:39 2021
Response via : Initial Calibration

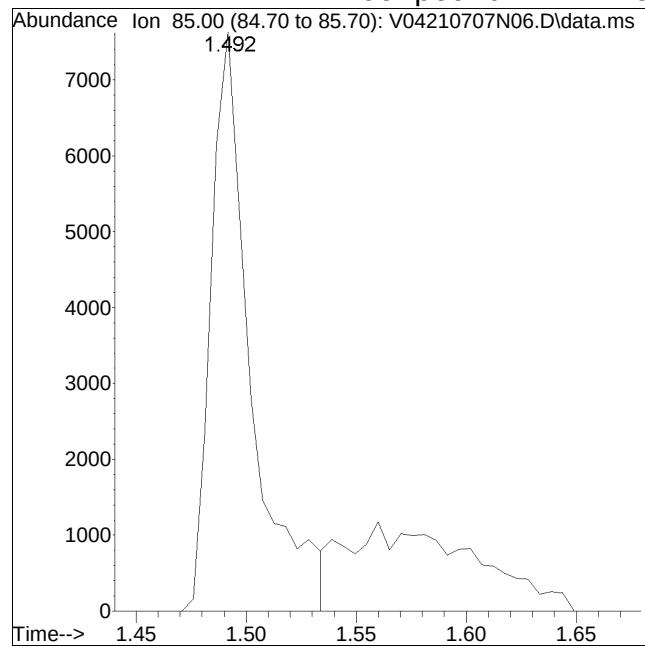
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

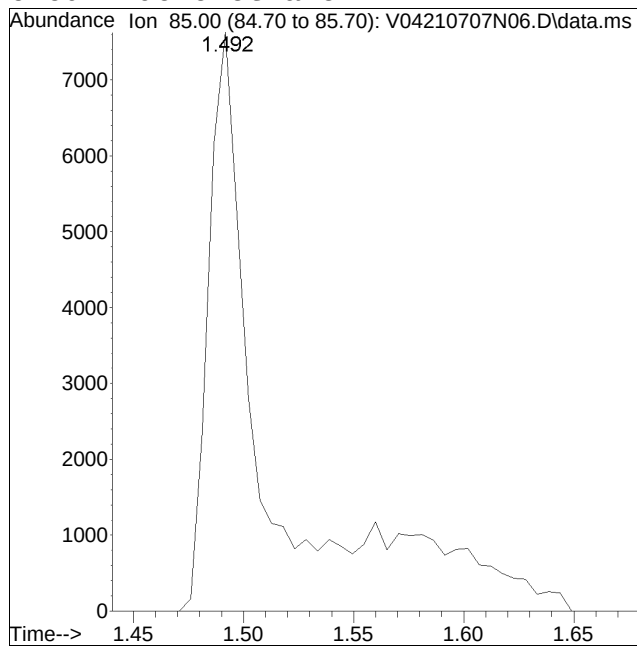
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 9637

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

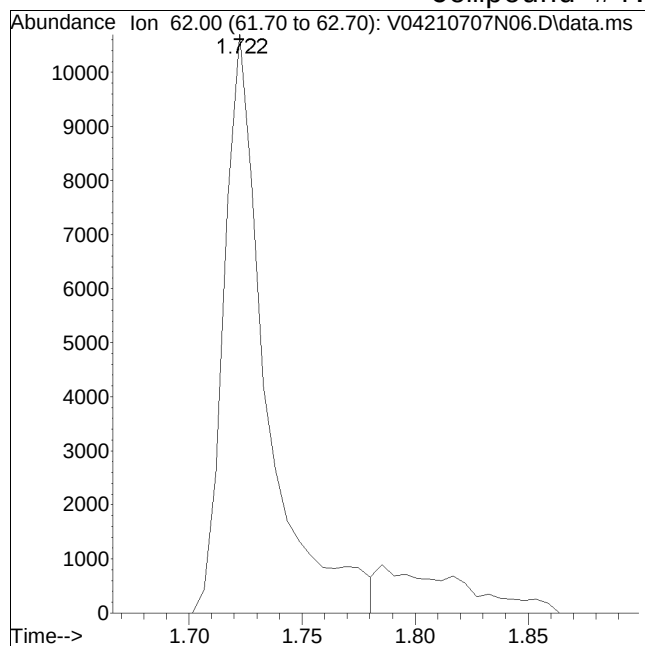


Manual Peak Response = 14362 M1

Manual Integration Report

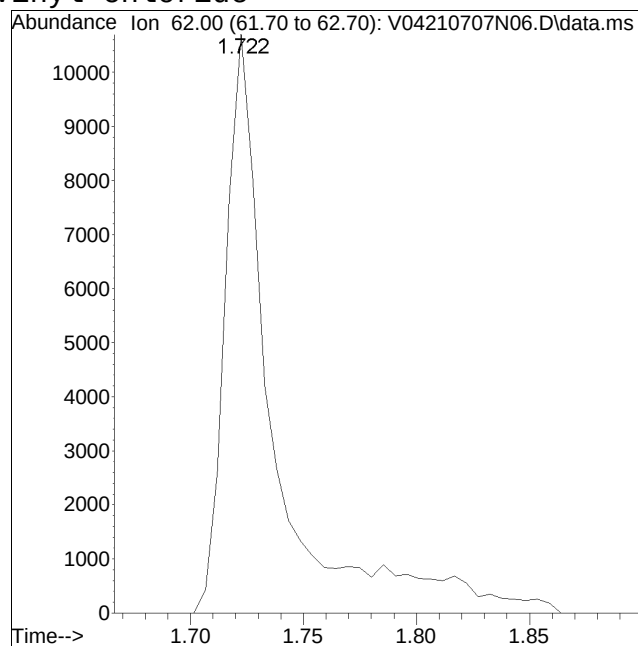
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Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #4: Vinyl chloride



Original Peak Response = 13963

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

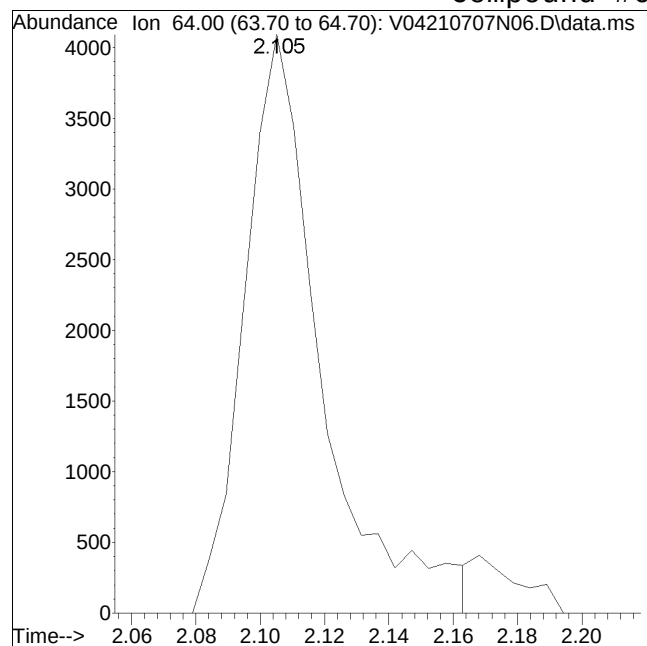


Manual Peak Response = 16249 M1

Manual Integration Report

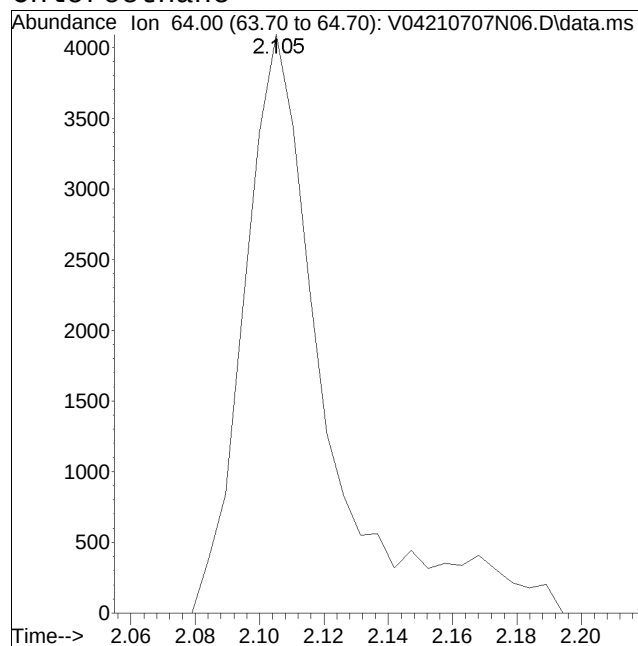
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #6: Chloroethane



Original Peak Response = 6776

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

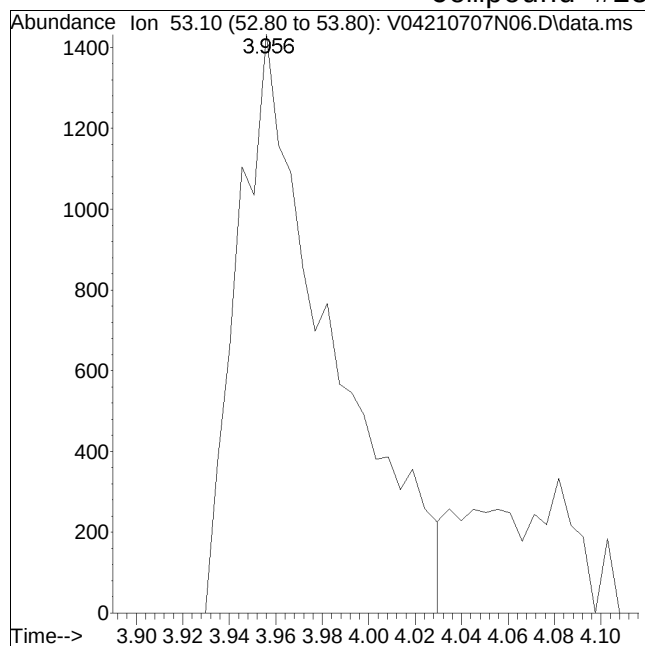


Manual Peak Response = 7191 M1

Manual Integration Report

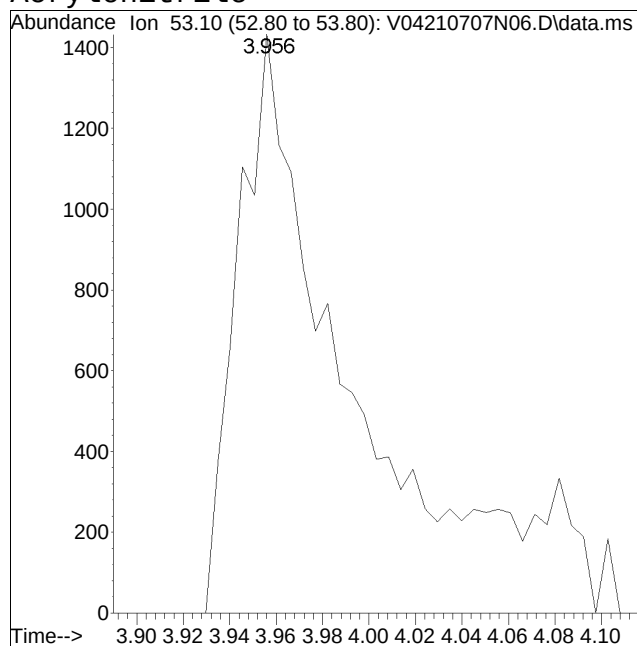
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Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #25: Acrylonitrile



Original Peak Response = 3994

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

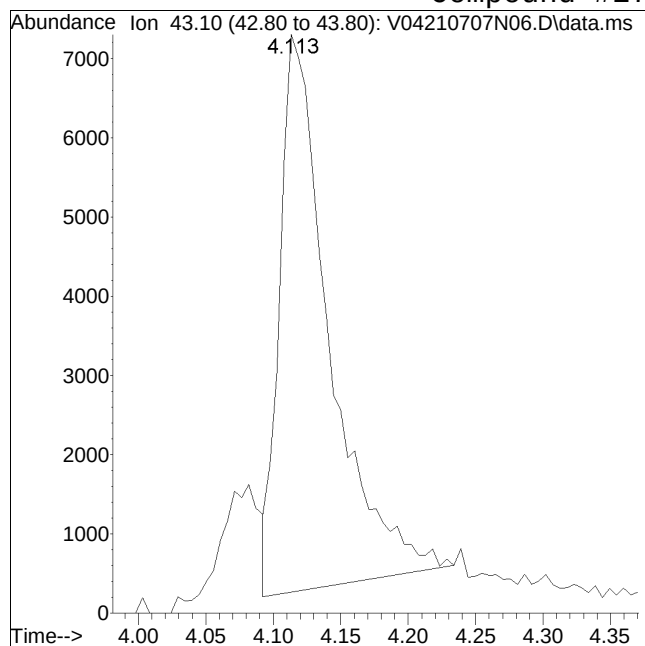


Manual Peak Response = 4900 M1

Manual Integration Report

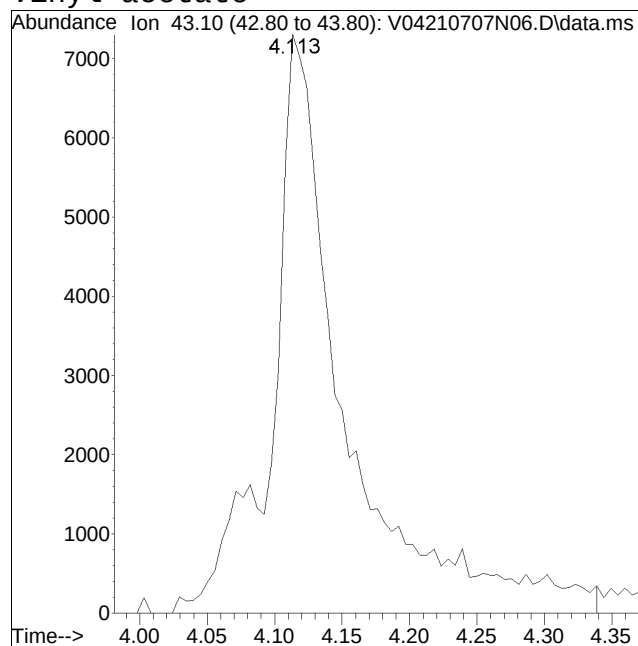
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #27: Vinyl acetate



Original Peak Response = 18002

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

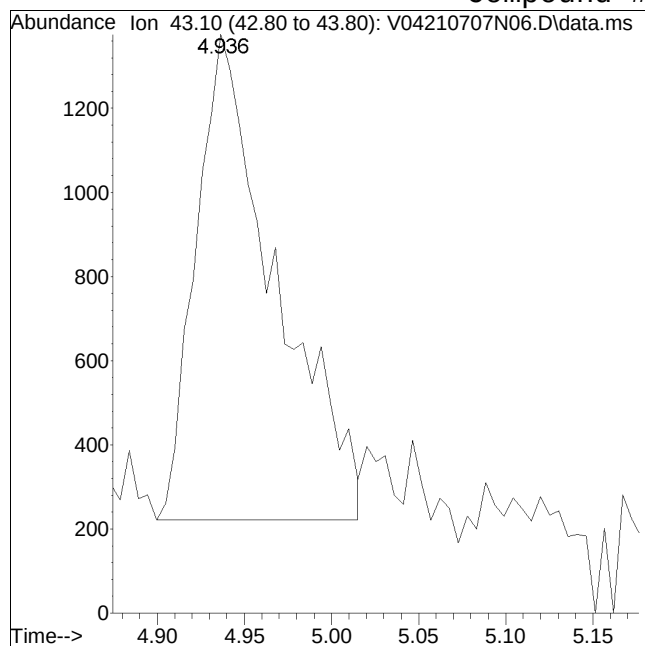


Manual Peak Response = 27538 M1

Manual Integration Report

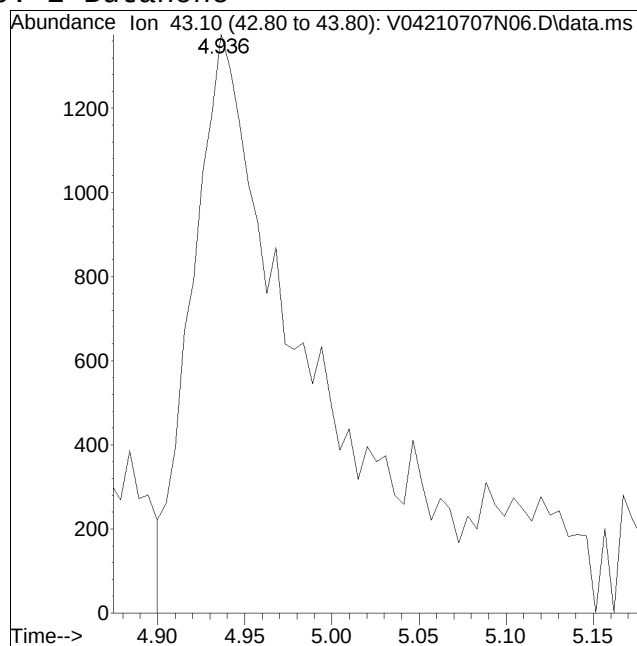
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #39: 2-Butanone



Original Peak Response = 3664

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

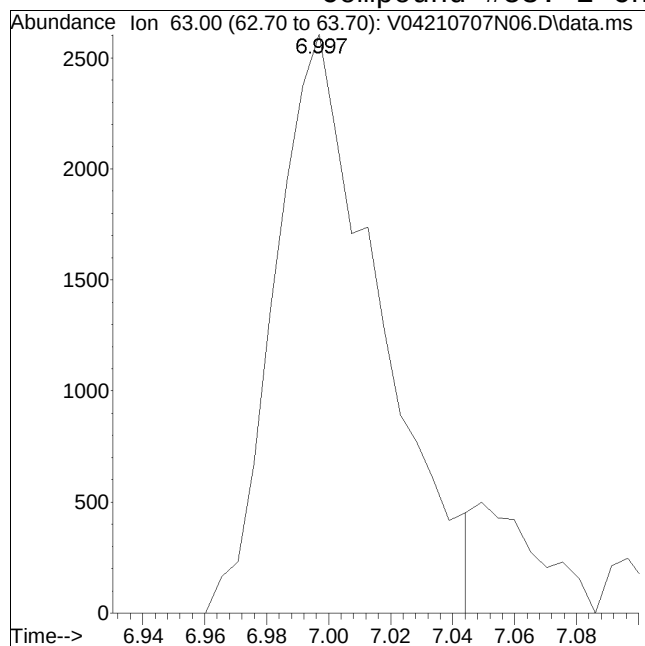


Manual Peak Response = 7261 M1

Manual Integration Report

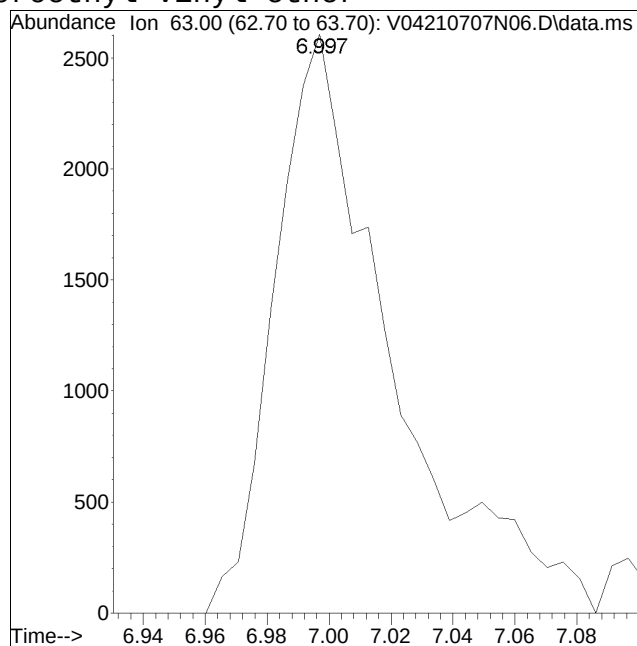
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Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 6100

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

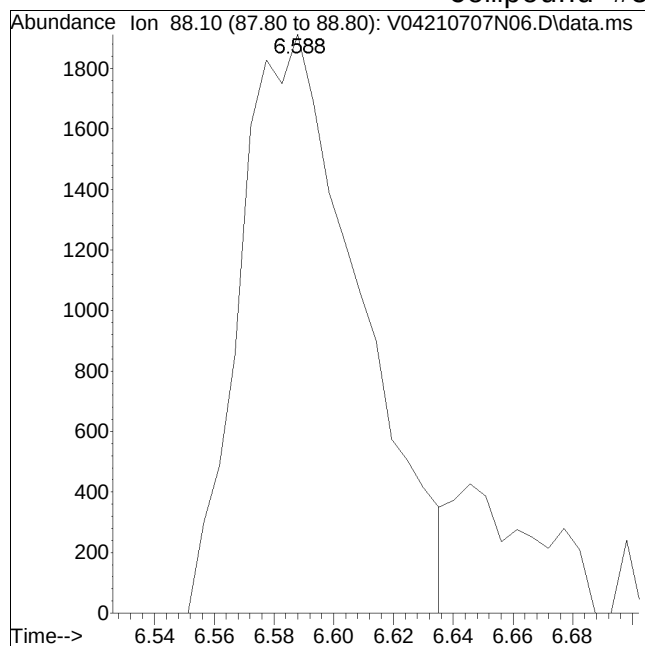


Manual Peak Response = 6799 M1

Manual Integration Report

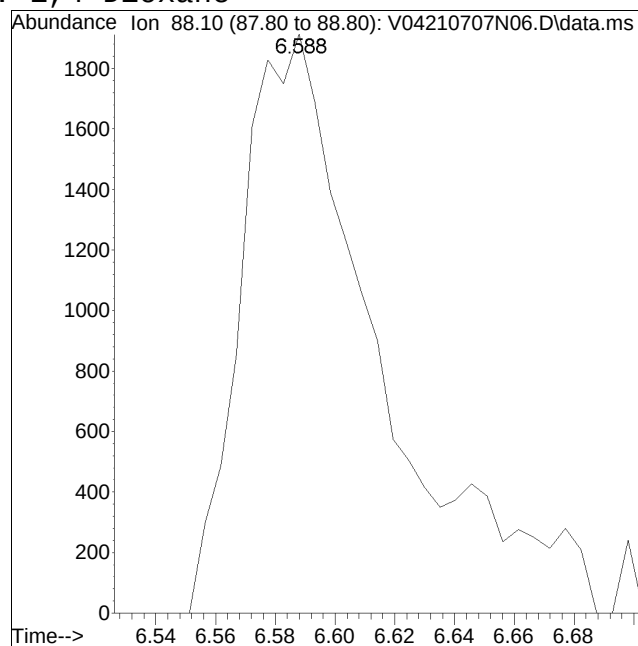
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 5302

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

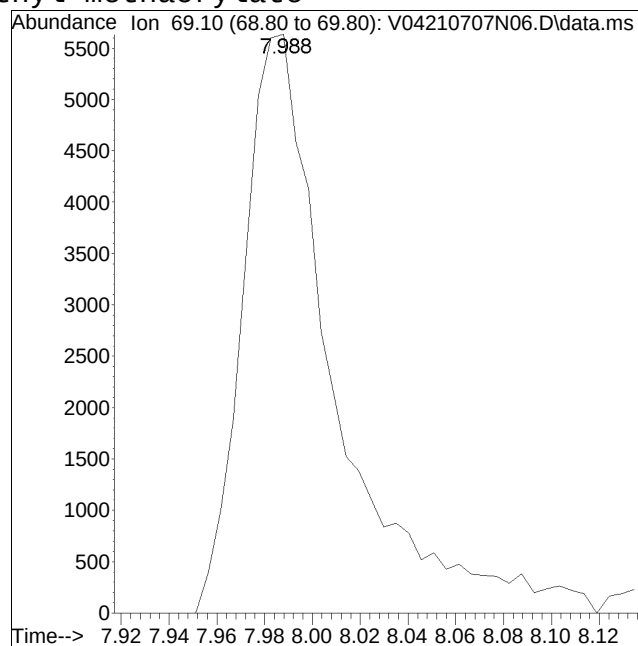
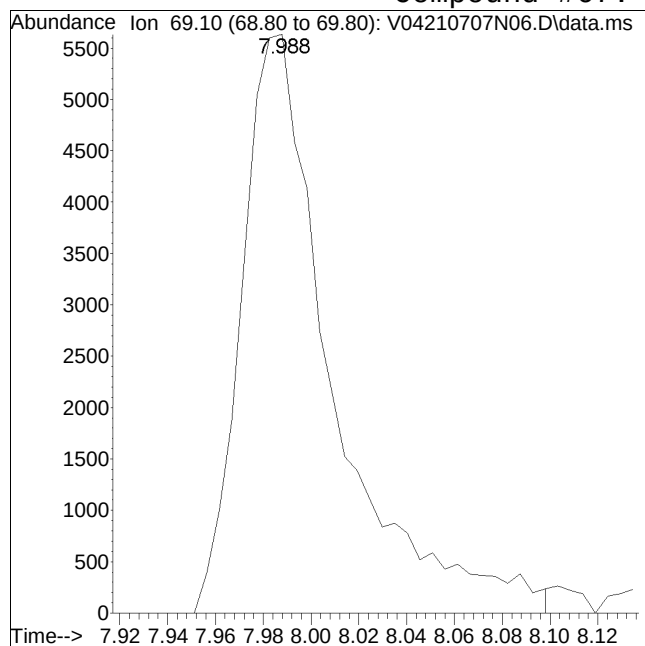


Manual Peak Response = 6136 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 14891

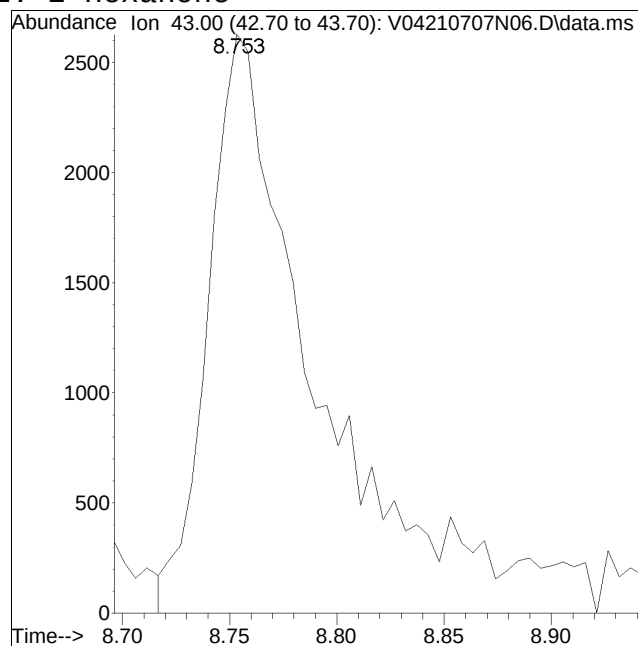
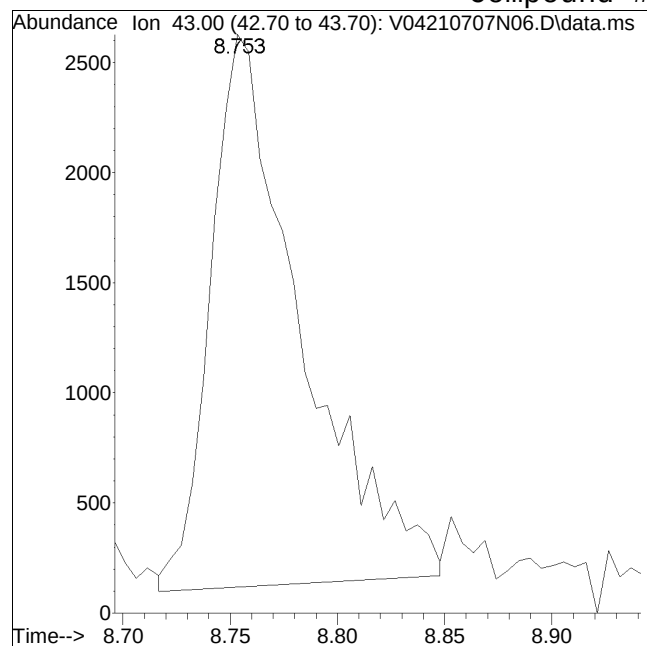
Manual Peak Response = 15102 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N06.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:09 pm Instrument : SV104
Sample : I8260STD4PPB Quant Date : 7/8/2021 1:33 pm

Compound #72: 2-Hexanone



Original Peak Response = 7348

Manual Peak Response = 9435 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N07.D
 Acq On : 7 Jul 2021 10:34 pm
 Operator : VOA104:JC
 Sample : I8260STD20PPB
 Misc : WG1521748,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:39:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	245258	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery =	99.83%		
59) Chlorobenzene-d5	9.063	117	184020	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery =	101.17%		
79) 1,4-Dichlorobenzene-d4	11.852	152	96485	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery =	105.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.811	113	72747	20.637	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.18%		
43) 1,2-Dichloroethane-d4	5.314	65	67163	20.219	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.10%		
60) Toluene-d8	7.238	98	236472	20.289	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.45%		
83) 4-Bromofluorobenzene	10.604	95	88024	19.411	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.06%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	72532M1	20.340	ug/L	
3) Chloromethane	1.696	50	92898	20.895	ug/L	98
4) Vinyl chloride	1.722	62	80506M1	20.294	ug/L	
5) Bromomethane	1.995	94	41079	21.770	ug/L	96
6) Chloroethane	2.105	64	31553	21.673	ug/L	94
7) Trichlorofluoromethane	2.226	101	107663	20.212	ug/L	99
8) Ethyl ether	2.493	74	35987	20.710	ug/L	87
10) 1,1-Dichloroethene	2.671	96	62595	20.598	ug/L	90
11) Carbon disulfide	2.698	76	217377	20.427	ug/L	100
12) Freon-113	2.703	101	68147	20.162	ug/L	83
14) Acrolein	2.975	56	8013M1	18.890	ug/L	
15) Methylene chloride	3.190	84	75247	20.996	ug/L	85
17) Acetone	3.232	43	13873	20.423	ug/L	# 84
18) trans-1,2-Dichloroethene	3.327	96	68832	20.050	ug/L	87
19) Methyl acetate	3.342	43	39018	20.042	ug/L	94
20) Methyl tert-butyl ether	3.411	73	177256	20.209	ug/L	95
21) tert-Butyl alcohol	3.515	59	36627	100.705	ug/L	88
22) Diisopropyl ether	3.746	45	254818	19.472	ug/L	94
23) 1,1-Dichloroethane	3.877	63	155968	20.558	ug/L	98
24) Halothane	3.940	117	56751	20.244	ug/L	100
25) Acrylonitrile	3.940	53	23056	20.011	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N07.D
 Acq On : 7 Jul 2021 10:34 pm
 Operator : VOA104:JC
 Sample : I8260STD20PPB
 Misc : WG1521748,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:39:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.076	59	228772	19.598	ug/L	94
27) Vinyl acetate	4.108	43	152141	19.552	ug/L	98
28) cis-1,2-Dichloroethene	4.381	96	77500	20.591	ug/L	89
29) 2,2-Dichloropropane	4.464	77	108507	20.348	ug/L	100
30) Bromochloromethane	4.564	128	36669	21.078	ug/L #	84
31) Cyclohexane	4.548	56	146666	20.459	ug/L	86
32) Chloroform	4.637	83	129934	20.778	ug/L	98
33) Ethyl acetate	4.742	43	59007	20.272	ug/L	98
34) Carbon tetrachloride	4.748	117	102103	19.880	ug/L	100
35) Tetrahydrofuran	4.779	42	21694	19.723	ug/L	90
37) 1,1,1-Trichloroethane	4.816	97	108755	20.477	ug/L	98
39) 2-Butanone	4.926	43	28781M1	23.858	ug/L	
40) 1,1-Dichloropropene	4.931	75	92503	20.202	ug/L	100
41) Benzene	5.172	78	263325	20.230	ug/L	95
42) tert-Amyl methyl ether	5.277	73	157371	19.625	ug/L	99
44) 1,2-Dichloroethane	5.382	62	99907	20.622	ug/L	100
47) Methyl cyclohexane	5.728	83	106345	19.831	ug/L	82
48) Trichloroethene	5.754	95	72583	20.093	ug/L	97
50) Dibromomethane	6.195	93	40752	20.413	ug/L	99
51) 1,2-Dichloropropane	6.289	63	84954	19.882	ug/L	97
53) 2-Chloroethyl vinyl ether	6.986	63	42273	18.909	ug/L	91
54) Bromodichloromethane	6.368	83	97664	20.341	ug/L	99
57) 1,4-Dioxane	6.577	88	28523	994.771	ug/L #	79
58) cis-1,3-Dichloropropene	7.044	75	111288	19.913	ug/L	99
61) Toluene	7.296	92	157932	19.927	ug/L	99
62) 4-Methyl-2-pentanone	7.741	58	24513	20.085	ug/L	98
63) Tetrachloroethene	7.731	166	78987	19.665	ug/L	99
65) trans-1,3-Dichloropropene	7.794	75	94542	19.793	ug/L	98
67) Ethyl methacrylate	7.977	69	75662	20.108	ug/L	94
68) 1,1,2-Trichloroethane	7.972	83	45175	19.641	ug/L	98
69) Chlorodibromomethane	8.177	129	68668	19.249	ug/L	99
70) 1,3-Dichloropropane	8.287	76	89332	19.598	ug/L	99
71) 1,2-Dibromoethane	8.439	107	56910	19.284	ug/L	100
72) 2-Hexanone	8.748	43	41304	21.000	ug/L	99
73) Chlorobenzene	9.084	112	187293	20.034	ug/L	99
74) Ethylbenzene	9.120	91	310506	20.358	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.167	131	70420	19.959	ug/L	99
76) p/m Xylene	9.304	106	248696	40.510	ug/L	98
77) o Xylene	9.849	106	239069	40.862	ug/L	98
78) Styrene	9.922	104	400469	40.993	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N07.D
 Acq On : 7 Jul 2021 10:34 pm
 Operator : VOA104:JC
 Sample : I8260STD20PPB
 Misc : WG1521748,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:39:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	42122	18.687	ug/L	99
82)	Isopropylbenzene	10.253	105	317307	19.564	ug/L	100
84)	Bromobenzene	10.714	156	76385	19.576	ug/L	97
85)	n-Propylbenzene	10.761	91	359196	19.678	ug/L	99
86)	1,4-Dichlorobutane	10.793	55	121935	19.689	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.877	83	65504	19.883	ug/L	100
88)	4-Ethyltoluene	10.892	105	312016	19.736	ug/L	99
89)	2-Chlorotoluene	10.934	91	208751	19.407	ug/L	100
90)	1,3,5-Trimethylbenzene	10.997	105	260498	19.698	ug/L	97
91)	1,2,3-Trichloropropane	11.008	75	48480	19.430	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.071	53	23560	19.400	ug/L	96
93)	4-Chlorotoluene	11.128	91	218637	19.629	ug/L	99
94)	tert-Butylbenzene	11.349	119	221135	19.868	ug/L	99
97)	1,2,4-Trimethylbenzene	11.432	105	259906	19.833	ug/L	98
98)	sec-Butylbenzene	11.543	105	347262	19.598	ug/L	99
99)	p-Isopropyltoluene	11.705	119	281961	19.551	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	152204	19.821	ug/L	98
101)	1,4-Dichlorobenzene	11.868	146	152955	19.870	ug/L	98
102)	p-Diethylbenzene	12.088	119	163817	19.357	ug/L	97
103)	n-Butylbenzene	12.151	91	251139	19.671	ug/L	99
104)	1,2-Dichlorobenzene	12.303	146	142866	20.052	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	266655	19.845	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	10882	19.823	ug/L	100
107)	1,3,5-Trichlorobenzene	13.121	180	108290	19.530	ug/L	99
108)	Hexachlorobutadiene	13.703	225	62092	19.677	ug/L	99
109)	1,2,4-Trichlorobenzene	13.729	180	97884	19.449	ug/L	98
110)	Naphthalene	14.017	128	199131	18.997	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	87322	19.432	ug/L	99

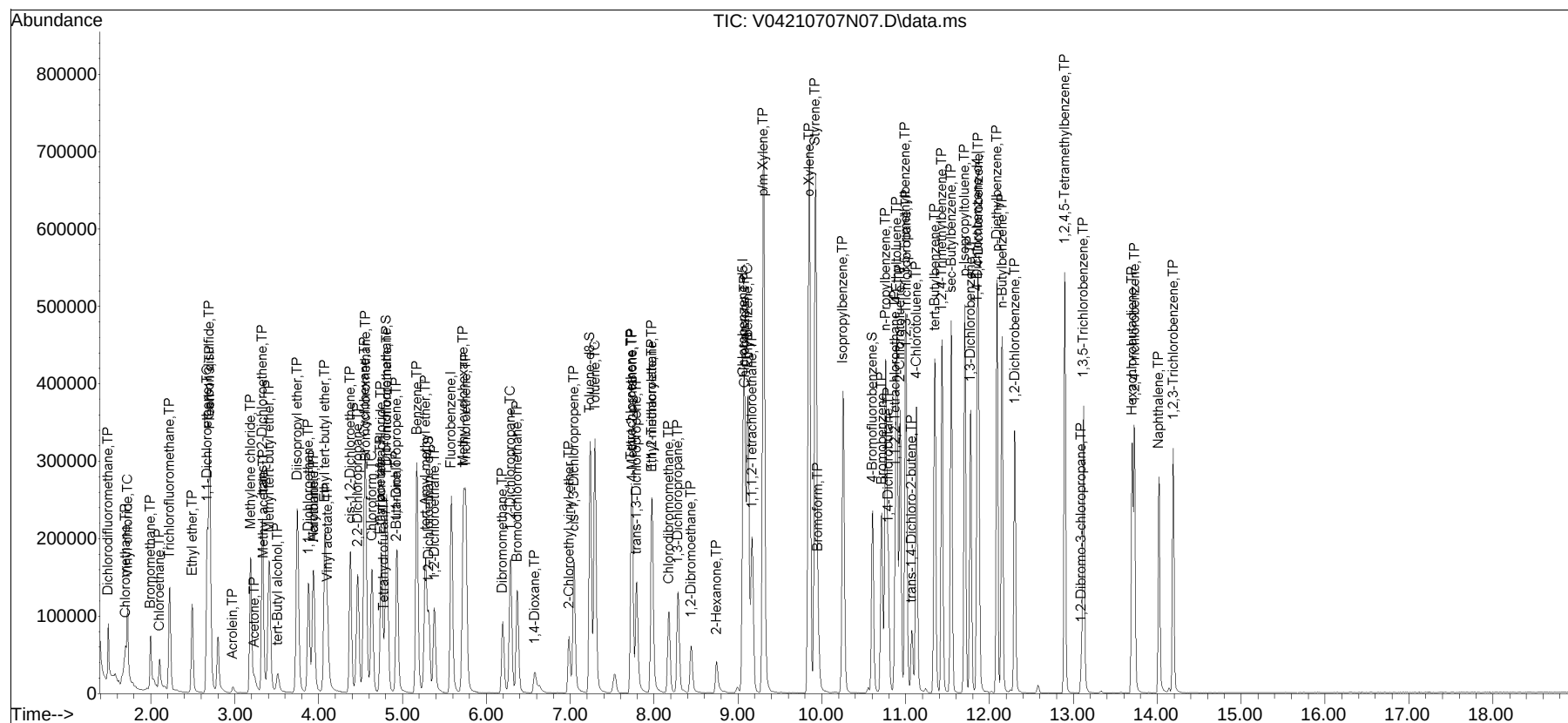
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
Data File : V04210707N07.D
Acq On : 7 Jul 2021 10:34 pm
Operator : VOA104:JC
Sample : I8260STD20PPB
Misc : WG1521748,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 10:39:16 2021
Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Jul 08 10:22:13 2021
Response via : Initial Calibration

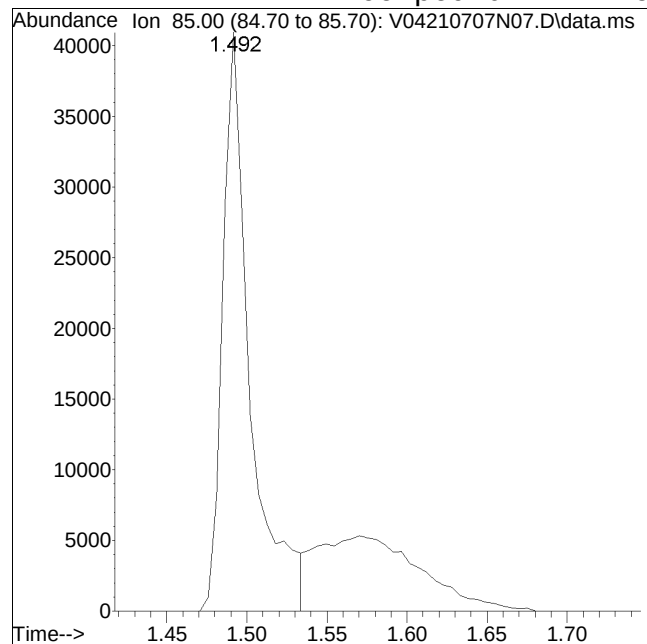
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

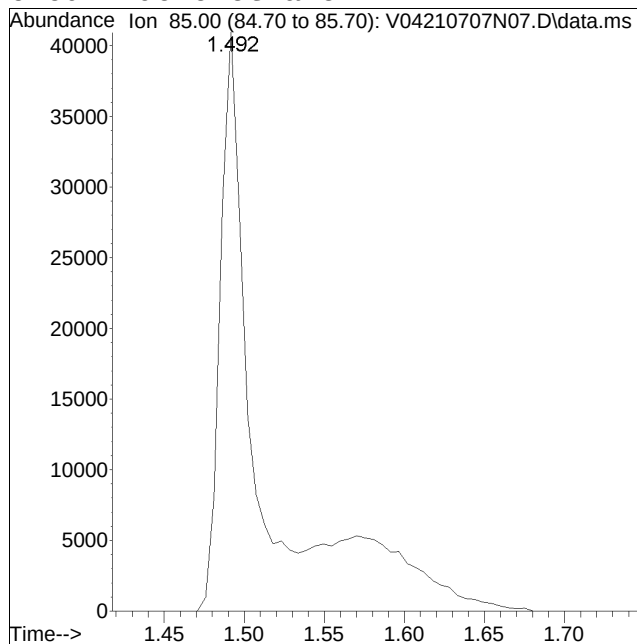
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N07.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:34 pm Instrument : SV104
Sample : I8260STD20PPB Quant Date : 7/8/2021 10:23 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 48330

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

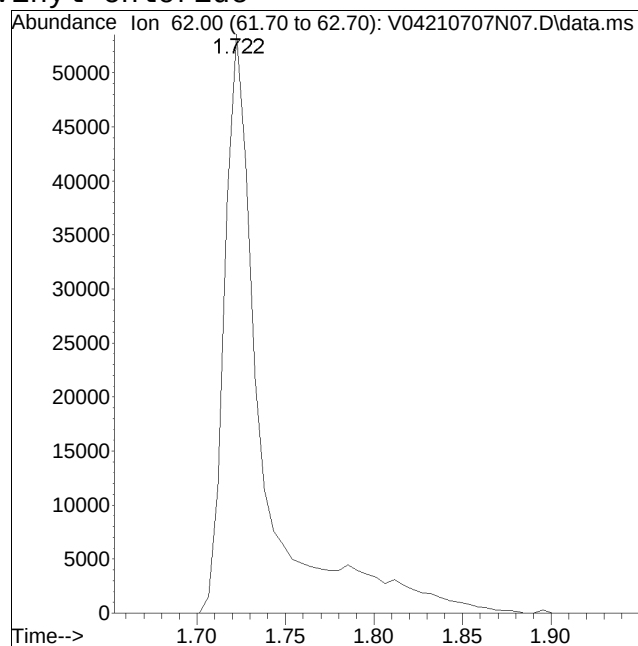
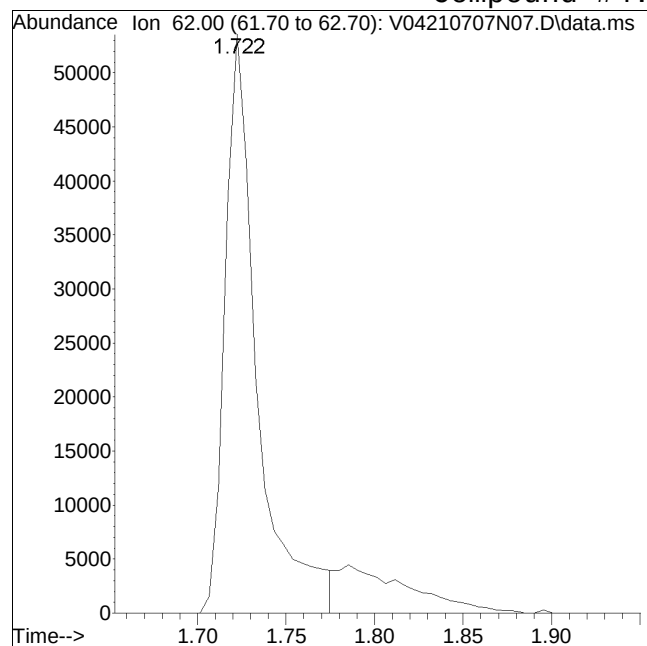


Manual Peak Response = 72532 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N07.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:34 pm Instrument : SV104
Sample : I8260STD20PPB Quant Date : 7/8/2021 10:23 am

Compound #4: Vinyl chloride



Original Peak Response = 67922

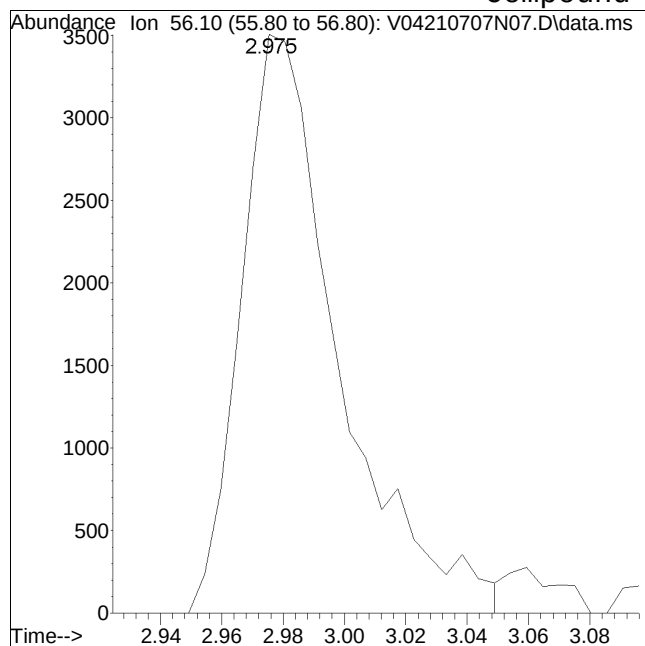
Manual Peak Response = 80506 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

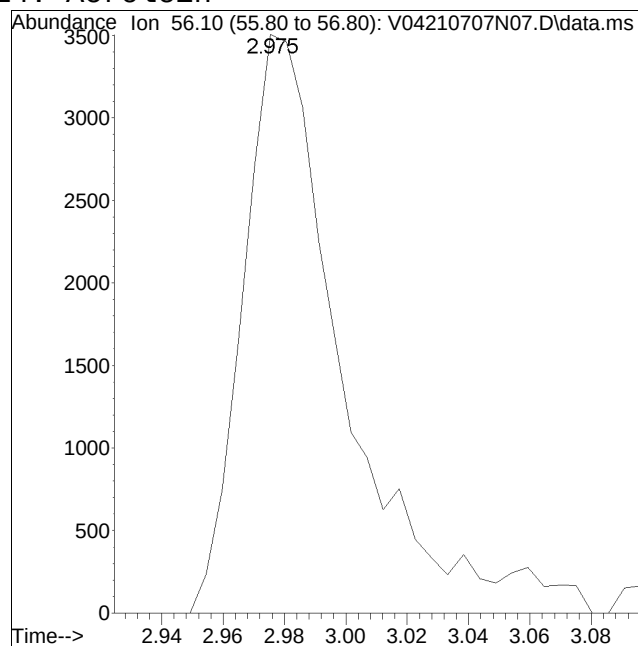
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N07.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:34 pm Instrument : SV104
Sample : I8260STD20PPB Quant Date : 7/8/2021 10:23 am

Compound #14: Acrolein



Original Peak Response = 7693

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

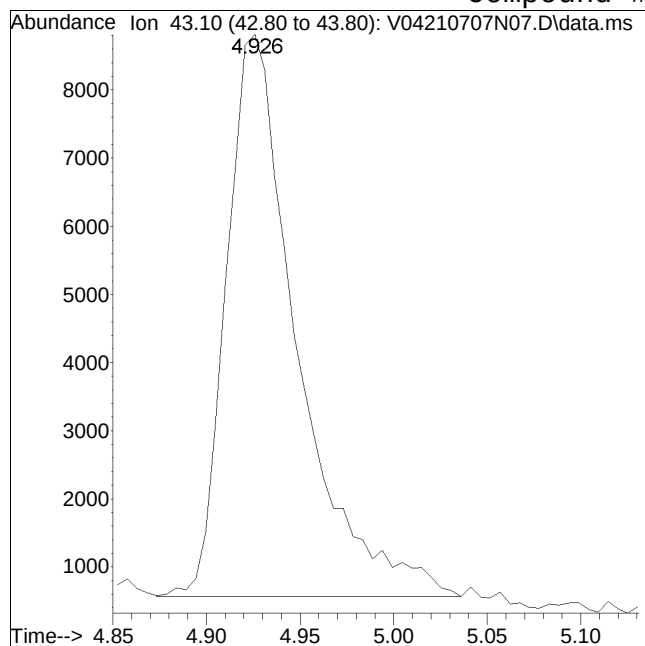


Manual Peak Response = 8013 M1

Manual Integration Report

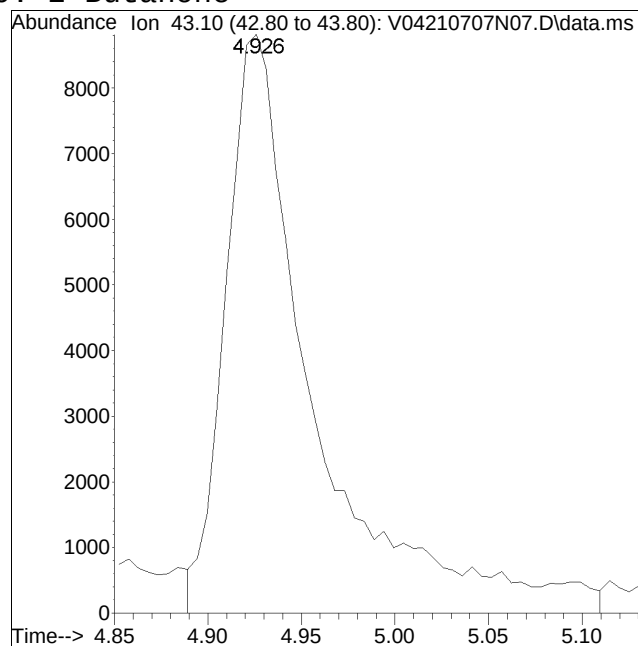
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Data File : V04210707N07.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 10:34 pm Instrument : SV104
Sample : I8260STD20PPB Quant Date : 7/8/2021 10:23 am

Compound #39: 2-Butanone



Original Peak Response = 21730

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 28781 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N08.D
 Acq On : 7 Jul 2021 11:00 pm
 Operator : VOA104:JC
 Sample : I8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 10:39:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed May 26 11:45:26 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	245682	20.000	ug/L	-0.01
Standard Area 1 = 245682			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.063	117	181885	20.000	ug/L	-0.01
Standard Area 1 = 181885			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.852	152	91684	20.000	ug/L	-0.01
Standard Area 1 = 91684			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	70624	20.255	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.28%	
43) 1,2-Dichloroethane-d4	5.314	65	66551	20.087	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.44%	
60) Toluene-d8	7.238	98	230397	20.466	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.33%	
83) 4-Bromofluorobenzene	10.604	95	86184	21.998	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery	=	109.99%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	142889M1	58.487	ug/L	
3) Chloromethane	1.702	50	178143	38.387	ug/L	99
4) Vinyl chloride	1.722	62	158953	40.703	ug/L	90
5) Bromomethane	1.995	94	75608	51.373	ug/L	97
6) Chloroethane	2.100	64	58335M1	32.701	ug/L	
7) Trichlorofluoromethane	2.221	101	213435	51.102	ug/L	99
8) Ethyl ether	2.493	74	69626	42.661	ug/L	85
10) 1,1-Dichloroethene	2.672	96	121768	45.713	ug/L	88
11) Carbon disulfide	2.698	76	426405	45.780	ug/L	99
12) Freon-113	2.703	101	135431	50.360	ug/L	84
14) Acrolein	2.976	56	16997	51.310	ug/L	95
15) Methylene chloride	3.191	84	143601	41.664	ug/L	84
17) Acetone	3.232	43	27218	33.743	ug/L	# 84
18) trans-1,2-Dichloroethene	3.327	96	137556	44.543	ug/L	89
19) Methyl acetate	3.337	43	78006	34.556	ug/L	97
20) Methyl tert-butyl ether	3.411	73	351444	43.371	ug/L	94
21) tert-Butyl alcohol	3.516	59	72867	172.736	ug/L	90
22) Diisopropyl ether	3.746	45	524348	41.067	ug/L	93
23) 1,1-Dichloroethane	3.877	63	303992	43.514	ug/L	98
24) Halothane	3.935	117	112329	46.085	ug/L	99
25) Acrylonitrile	3.935	53	46167	43.072	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N08.D
 Acq On : 7 Jul 2021 11:00 pm
 Operator : VOA104:JC
 Sample : I8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 10:39:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed May 26 11:45:26 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.077	59	467748	40.611	ug/L	94
27) Vinyl acetate	4.103	43	311798	37.345	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	150810	41.521	ug/L	89
29) 2,2-Dichloropropane	4.465	77	213671	46.566	ug/L	99
30) Bromochloromethane	4.564	128	69709	39.780	ug/L #	83
31) Cyclohexane	4.548	56	287244	45.723	ug/L	86
32) Chloroform	4.638	83	250572	42.770	ug/L	97
33) Ethyl acetate	4.737	43	116631	35.366	ug/L	97
34) Carbon tetrachloride	4.748	117	205790	49.676	ug/L	100
35) Tetrahydrofuran	4.774	42	44073	41.335	ug/L	91
37) 1,1,1-Trichloroethane	4.816	97	212815	47.156	ug/L	98
39) 2-Butanone	4.921	43	54964M1	39.596	ug/L	
40) 1,1-Dichloropropene	4.931	75	183469	46.369	ug/L	99
41) Benzene	5.172	78	521560	42.283	ug/L	95
42) tert-Amyl methyl ether	5.272	73	321318	40.449	ug/L	98
44) 1,2-Dichloroethane	5.377	62	194126	41.359	ug/L	99
47) Methyl cyclohexane	5.728	83	214871	45.529	ug/L	81
48) Trichloroethene	5.754	95	144745	44.873	ug/L	97
50) Dibromomethane	6.190	93	79994	41.352	ug/L	99
51) 1,2-Dichloropropane	6.284	63	171215	41.428	ug/L	97
53) 2-Chloroethyl vinyl ether	6.981	63	89580	43.054	ug/L	96
54) Bromodichloromethane	6.368	83	192388	42.109	ug/L	99
57) 1,4-Dioxane	6.578	88	57445	2013.961	ug/L #	82
58) cis-1,3-Dichloropropene	7.044	75	223934	42.857	ug/L	99
61) Toluene	7.296	92	313348	44.825	ug/L	100
62) 4-Methyl-2-pentanone	7.736	58	48253	39.822	ug/L	99
63) Tetrachloroethene	7.731	166	158801	49.400	ug/L	100
65) trans-1,3-Dichloropropene	7.789	75	188842	46.629	ug/L	99
67) Ethyl methacrylate	7.972	69	148765	44.927	ug/L	94
68) 1,1,2-Trichloroethane	7.972	83	90933	42.303	ug/L	98
69) Chlorodibromomethane	8.171	129	141038	43.291	ug/L	100
70) 1,3-Dichloropropane	8.287	76	180210	43.180	ug/L	100
71) 1,2-Dibromoethane	8.439	107	116678	45.817	ug/L	99
72) 2-Hexanone	8.743	43	77762	35.002	ug/L	95
73) Chlorobenzene	9.078	112	369607	42.537	ug/L	99
74) Ethylbenzene	9.120	91	603013	45.830	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.168	131	139495	44.667	ug/L	99
76) p/m Xylene	9.304	106	485427	91.837	ug/L	98
77) o Xylene	9.849	106	462623	87.928	ug/L	98
78) Styrene	9.923	104	772468	85.711	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N08.D
 Acq On : 7 Jul 2021 11:00 pm
 Operator : VOA104:JC
 Sample : I8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 10:39:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed May 26 11:45:26 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	85679	47.185	ug/L	100
82)	Isopropylbenzene	10.253	105	616472	51.451	ug/L	99
84)	Bromobenzene	10.714	156	148310	42.591	ug/L	97
85)	n-Propylbenzene	10.762	91	693810	50.204	ug/L	100
86)	1,4-Dichlorobutane	10.788	55	235399	47.230	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.877	83	125224	42.695	ug/L	100
88)	4-Ethyltoluene	10.893	105	600918	50.754	ug/L	98
89)	2-Chlorotoluene	10.935	91	408843	48.465	ug/L	99
90)	1,3,5-Trimethylbenzene	10.997	105	502665	49.854	ug/L	98
91)	1,2,3-Trichloropropane	11.013	75	94838	43.660	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.071	53	46159	51.380	ug/L	98
93)	4-Chlorotoluene	11.129	91	423368	47.990	ug/L	100
94)	tert-Butylbenzene	11.349	119	423052	48.808	ug/L	98
97)	1,2,4-Trimethylbenzene	11.433	105	498095	49.472	ug/L	97
98)	sec-Butylbenzene	11.543	105	673506	51.428	ug/L	99
99)	p-Isopropyltoluene	11.705	119	548181	49.382	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	291867	44.503	ug/L	98
101)	1,4-Dichlorobenzene	11.868	146	292589	43.697	ug/L	99
102)	p-Diethylbenzene	12.088	119	321670	48.326	ug/L	97
103)	n-Butylbenzene	12.146	91	485276	50.545	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	270805	43.489	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	510725	45.732	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.095	155	20866	39.296	ug/L	100
107)	1,3,5-Trichlorobenzene	13.121	180	210753	44.804	ug/L	99
108)	Hexachlorobutadiene	13.703	225	119941	52.564	ug/L	99
109)	1,2,4-Trichlorobenzene	13.724	180	191299	42.751	ug/L	99
110)	Naphthalene	14.017	128	398429	39.078	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	170806	41.548	ug/L	99

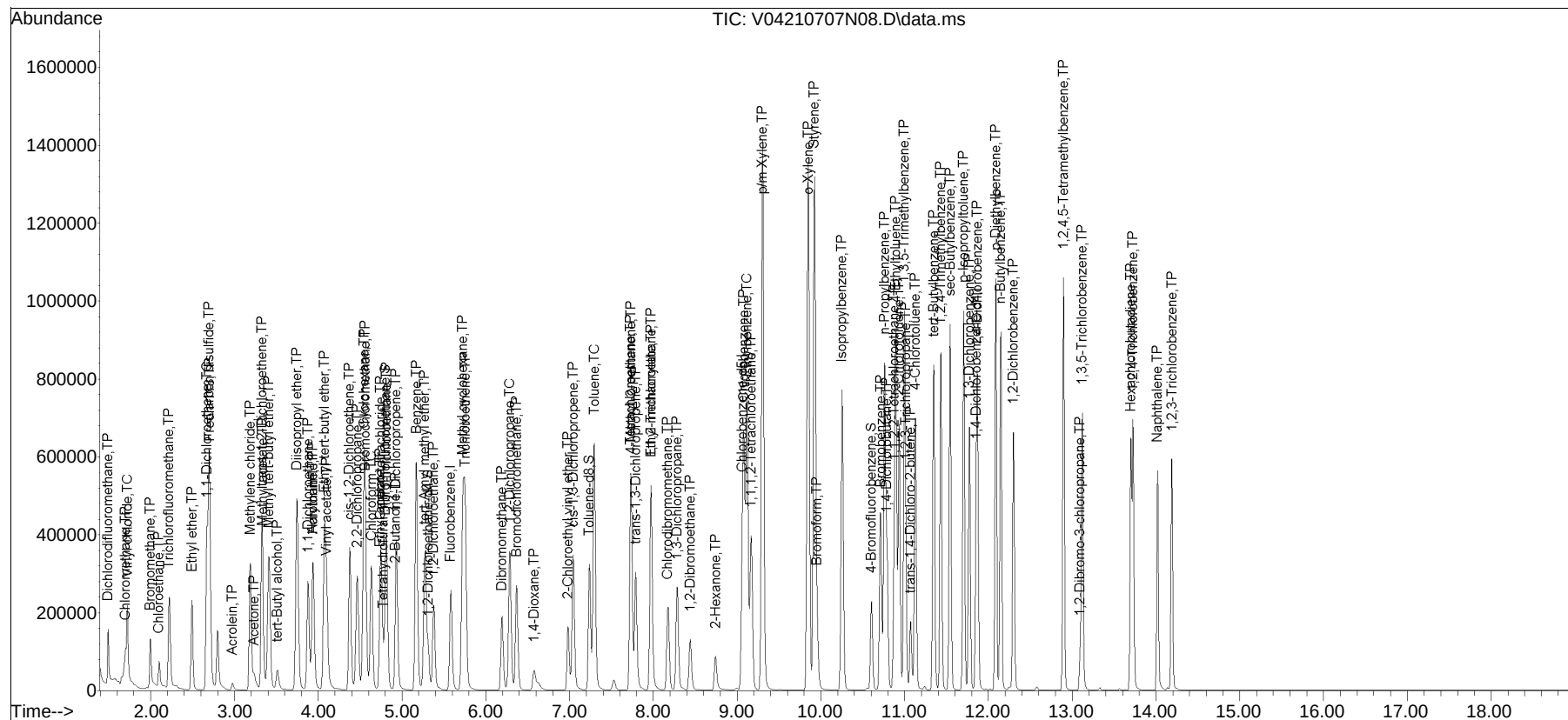
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N08.D
 Acq On : 7 Jul 2021 11:00 pm
 Operator : VOA104:JC
 Sample : I8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 10:39:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed May 26 11:45:26 2021
 Response via : Initial Calibration

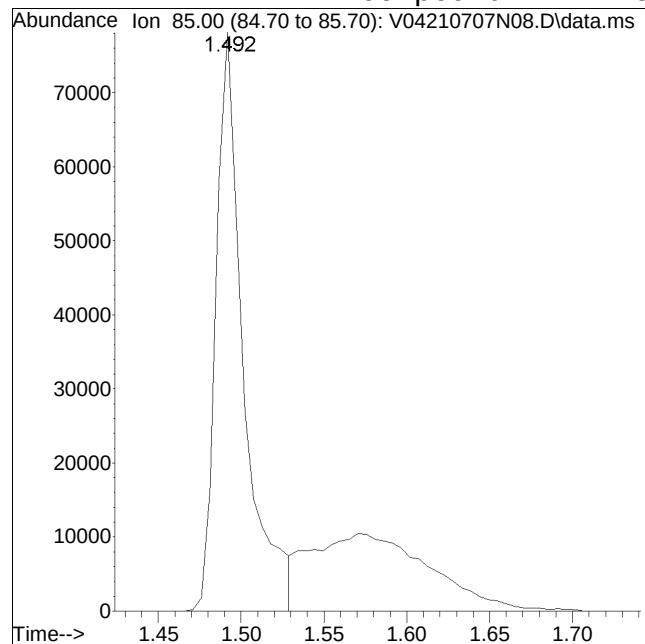
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

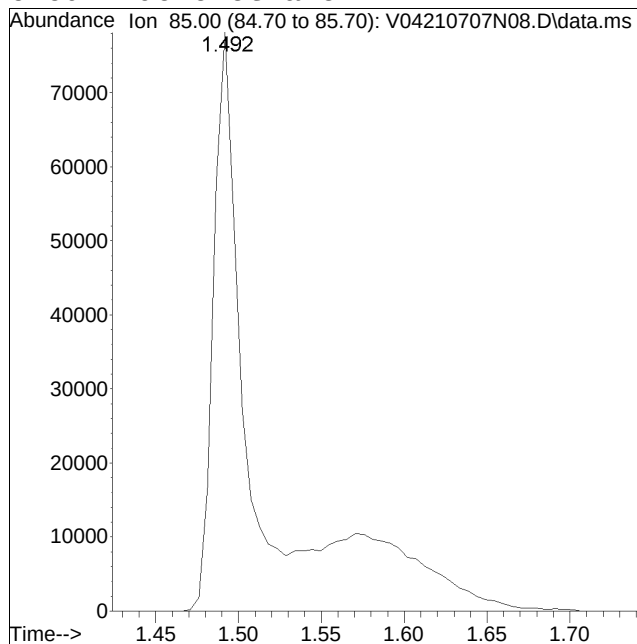
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N08.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:00 pm Instrument : SV104
Sample : I8260STD40PPB Quant Date : 7/8/2021 10:19 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 90138

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

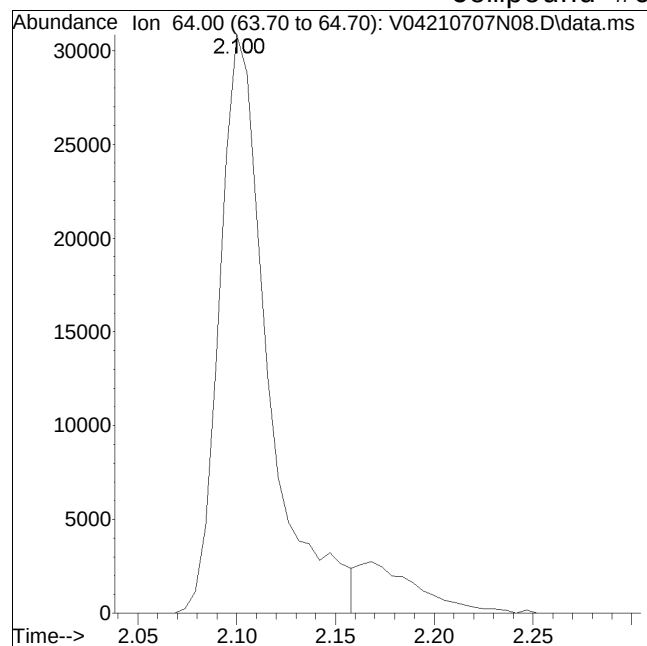


Manual Peak Response = 142889 M1

Manual Integration Report

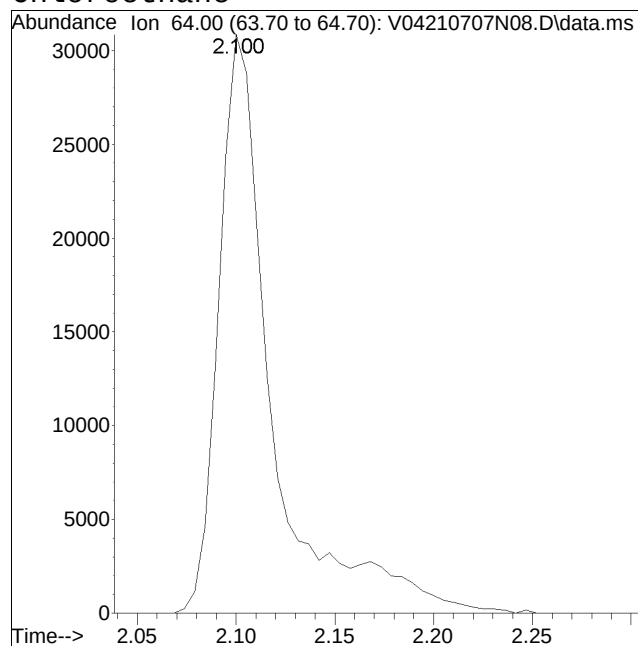
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N08.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:00 pm Instrument : SV104
Sample : I8260STD40PPB Quant Date : 7/8/2021 10:19 am

Compound #6: Chloroethane



Original Peak Response = 52598

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

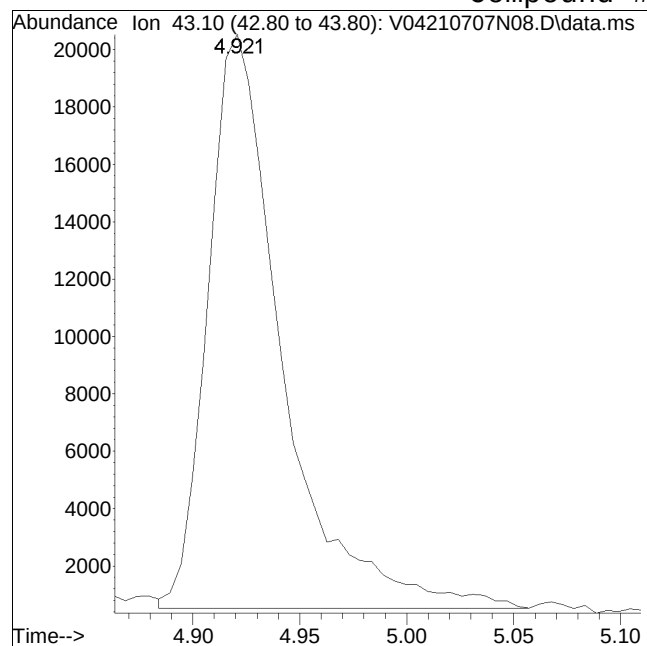


Manual Peak Response = 58335 M1

Manual Integration Report

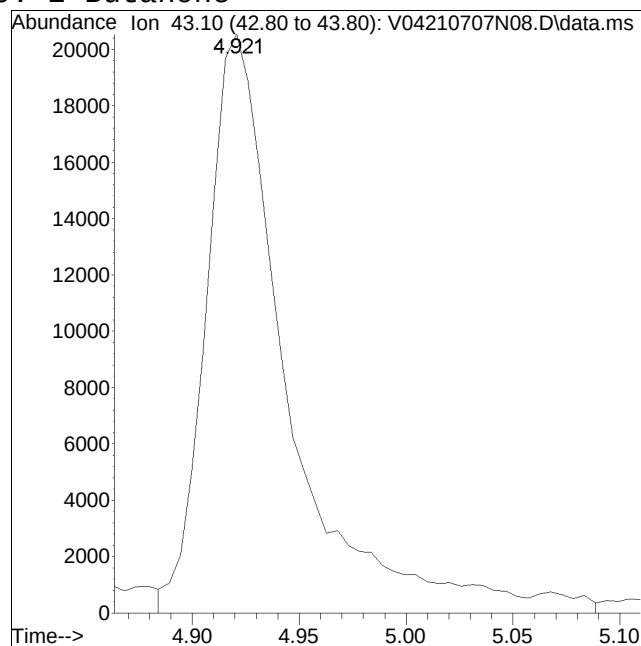
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N08.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:00 pm Instrument : SV104
Sample : I8260STD40PPB Quant Date : 7/8/2021 10:19 am

Compound #39: 2-Butanone



Original Peak Response = 48338

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 54964 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N09.D
 Acq On : 7 Jul 2021 11:25 pm
 Operator : VOA104:JC
 Sample : I8260STD100PPB
 Misc : WG1521748,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 10:41:14 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	244257	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery =	99.42%		
59) Chlorobenzene-d5	9.063	117	181537	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery =	99.81%		
79) 1,4-Dichlorobenzene-d4	11.852	152	89285	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery =	97.38%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68588	19.537	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.69%		
43) 1,2-Dichloroethane-d4	5.314	65	65819	19.895	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.48%		
60) Toluene-d8	7.238	98	231367	20.123	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.62%		
83) 4-Bromofluorobenzene	10.604	95	83845	19.980	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.90%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	353241M1	99.462	ug/L	
3) Chloromethane	1.707	50	455324	102.834	ug/L	99
4) Vinyl chloride	1.722	62	389484	98.584	ug/L	89
5) Bromomethane	2.000	94	184205	98.021	ug/L	98
6) Chloroethane	2.100	64	134003	92.421	ug/L	91
7) Trichlorofluoromethane	2.220	101	494235M1	93.165	ug/L	
8) Ethyl ether	2.493	74	173151	100.055	ug/L	87
10) 1,1-Dichloroethene	2.671	96	296672	98.023	ug/L	88
11) Carbon disulfide	2.698	76	1011957	95.483	ug/L	99
12) Freon-113	2.703	101	328025	97.449	ug/L	87
14) Acrolein	2.975	56	41373	97.933	ug/L	97
15) Methylene chloride	3.190	84	337181	94.470	ug/L	83
17) Acetone	3.232	43	66416	98.175	ug/L	# 84
18) trans-1,2-Dichloroethene	3.327	96	331597	96.988	ug/L	90
19) Methyl acetate	3.337	43	197178	101.699	ug/L	97
20) Methyl tert-butyl ether	3.411	73	865333	99.063	ug/L	95
21) tert-Butyl alcohol	3.510	59	179112	494.482	ug/L	89
22) Diisopropyl ether	3.746	45	1298017	99.597	ug/L	94
23) 1,1-Dichloroethane	3.877	63	728183	96.375	ug/L	98
24) Halothane	3.935	117	272776	97.701	ug/L	99
25) Acrylonitrile	3.935	53	115568	100.715	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N09.D
 Acq On : 7 Jul 2021 11:25 pm
 Operator : VOA104:JC
 Sample : I8260STD100PPB
 Misc : WG1521748,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 10:41:14 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.077	59	1165173	100.222	ug/L	93
27) Vinyl acetate	4.103	43	779460	100.579	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	361814	96.525	ug/L	90
29) 2,2-Dichloropropane	4.464	77	513943	96.773	ug/L	99
30) Bromochloromethane	4.564	128	167521	96.687	ug/L	87
31) Cyclohexane	4.548	56	678897	95.091	ug/L	86
32) Chloroform	4.632	83	601485	96.578	ug/L	99
33) Ethyl acetate	4.737	43	292731	100.981	ug/L	98
34) Carbon tetrachloride	4.748	117	503639	98.465	ug/L	99
35) Tetrahydrofuran	4.774	42	106884	97.572	ug/L	90
37) 1,1,1-Trichloroethane	4.816	97	509624	96.346	ug/L	98
39) 2-Butanone	4.915	43	133138M1	110.815	ug/L	
40) 1,1-Dichloropropene	4.931	75	438001	96.050	ug/L	99
41) Benzene	5.172	78	1255505	96.850	ug/L	95
42) tert-Amyl methyl ether	5.272	73	807224	101.075	ug/L	98
44) 1,2-Dichloroethane	5.377	62	469021	97.206	ug/L	100
47) Methyl cyclohexane	5.728	83	531903	99.596	ug/L	83
48) Trichloroethene	5.754	95	346649	96.355	ug/L	98
50) Dibromomethane	6.189	93	196364	98.762	ug/L	100
51) 1,2-Dichloropropane	6.289	63	410393	96.437	ug/L	98
53) 2-Chloroethyl vinyl ether	6.981	63	226923	101.919	ug/L	95
54) Bromodichloromethane	6.368	83	472754	98.865	ug/L	99
57) 1,4-Dioxane	6.577	88	139854	4897.551	ug/L #	81
58) cis-1,3-Dichloropropene	7.044	75	551661	99.115	ug/L	99
61) Toluene	7.296	92	769167	98.375	ug/L	99
62) 4-Methyl-2-pentanone	7.736	58	120555	100.127	ug/L	95
63) Tetrachloroethene	7.731	166	388744	98.107	ug/L	100
65) trans-1,3-Dichloropropene	7.789	75	470895	99.935	ug/L	100
67) Ethyl methacrylate	7.972	69	358662	96.622	ug/L	95
68) 1,1,2-Trichloroethane	7.972	83	222003	97.843	ug/L	99
69) Chlorodibromomethane	8.171	129	349797	99.397	ug/L	99
70) 1,3-Dichloropropane	8.281	76	443466	98.622	ug/L	100
71) 1,2-Dibromoethane	8.439	107	288953	99.250	ug/L	100
72) 2-Hexanone	8.738	43	201992	104.102	ug/L	97
73) Chlorobenzene	9.078	112	901493	97.749	ug/L	99
74) Ethylbenzene	9.115	91	1462430	97.194	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.167	131	353191	101.471	ug/L	99
76) p/m Xylene	9.304	106	1144599	188.995	ug/L	98
77) o Xylene	9.849	106	1104804	191.417	ug/L	98
78) Styrene	9.922	104	1826794	189.553	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N09.D
 Acq On : 7 Jul 2021 11:25 pm
 Operator : VOA104:JC
 Sample : I8260STD100PPB
 Misc : WG1521748,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 10:41:14 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	214849	102.999	ug/L	100
82)	Isopropylbenzene	10.253	105	1482938	98.806	ug/L	99
84)	Bromobenzene	10.714	156	359524	99.571	ug/L	97
85)	n-Propylbenzene	10.761	91	1651752	97.787	ug/L	100
86)	1,4-Dichlorobutane	10.788	55	567545	99.031	ug/L	99
87)	1,1,2,2-Tetrachloroethane	10.877	83	307743	100.943	ug/L	100
88)	4-Ethyltoluene	10.892	105	1417183	96.869	ug/L	98
89)	2-Chlorotoluene	10.934	91	984428M1	98.901	ug/L	
90)	1,3,5-Trimethylbenzene	10.997	105	1199613	98.025	ug/L	98
91)	1,2,3-Trichloropropane	11.008	75	229787	99.522	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.071	53	107973	96.080	ug/L	93
93)	4-Chlorotoluene	11.128	91	1004477	97.453	ug/L	99
94)	tert-Butylbenzene	11.349	119	1027122	99.725	ug/L	98
97)	1,2,4-Trimethylbenzene	11.432	105	1195838	98.613	ug/L	97
98)	sec-Butylbenzene	11.543	105	1597162	97.405	ug/L	99
99)	p-Isopropyltoluene	11.705	119	1301185	97.497	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	694205	97.696	ug/L	98
101)	1,4-Dichlorobenzene	11.868	146	692676	97.241	ug/L	99
102)	p-Diethylbenzene	12.088	119	765113	97.699	ug/L	97
103)	n-Butylbenzene	12.146	91	1140542	96.538	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	648434	98.352	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	1220009	98.119	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	52230	102.815	ug/L	99
107)	1,3,5-Trichlorobenzene	13.121	180	489069	95.317	ug/L	99
108)	Hexachlorobutadiene	13.703	225	279590	95.748	ug/L	100
109)	1,2,4-Trichlorobenzene	13.724	180	448793	96.363	ug/L	98
110)	Naphthalene	14.017	128	952499	98.195	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	406387	97.726	ug/L	99

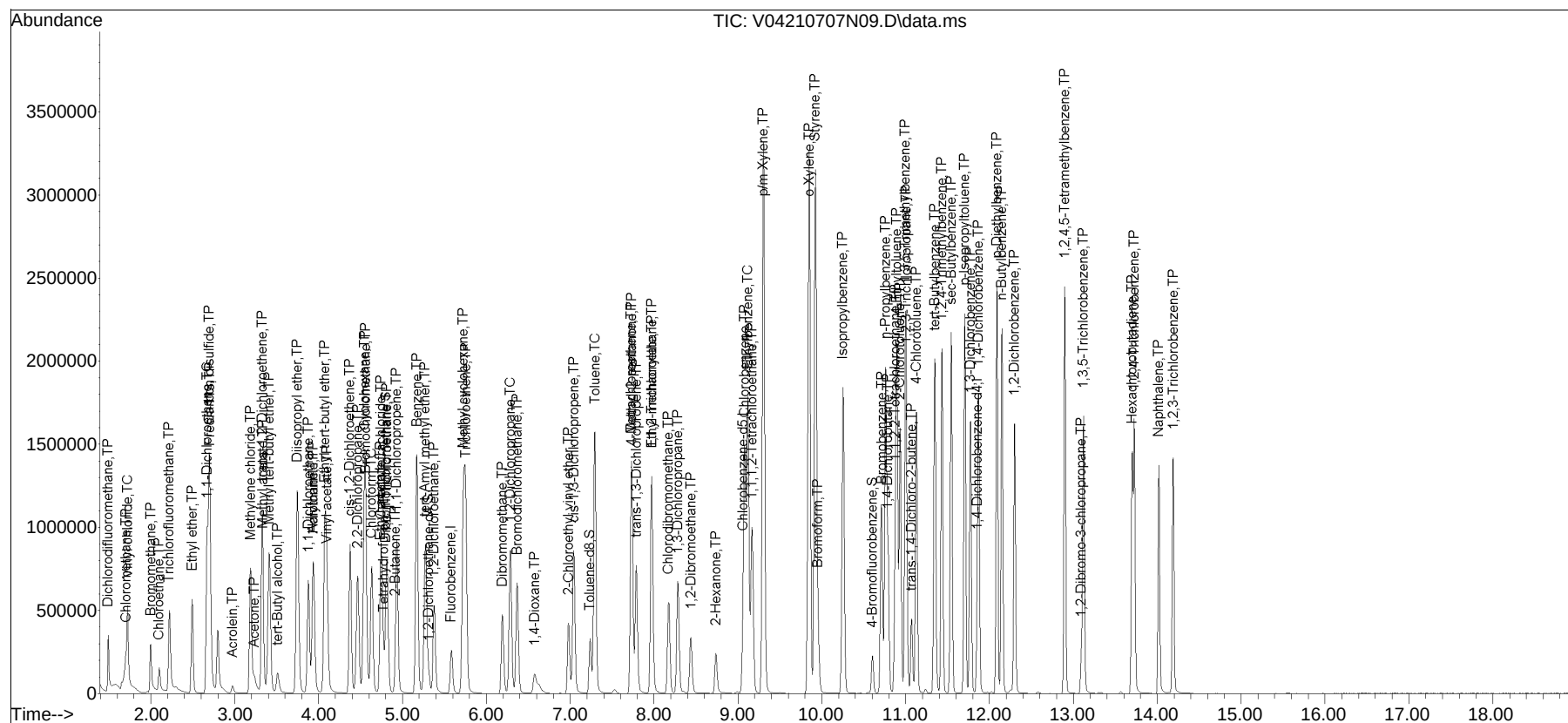
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N09.D
 Acq On : 7 Jul 2021 11:25 pm
 Operator : VOA104:JC
 Sample : I8260STD100PPB
 Misc : WG1521748,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 10:41:14 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

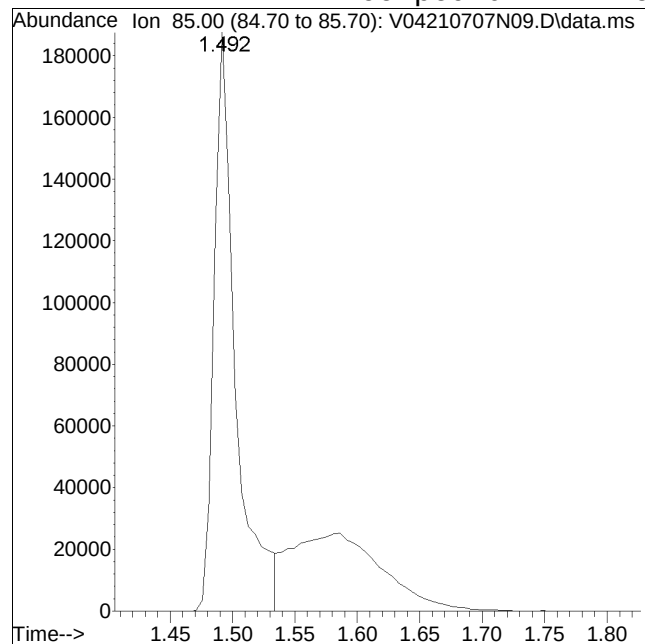
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

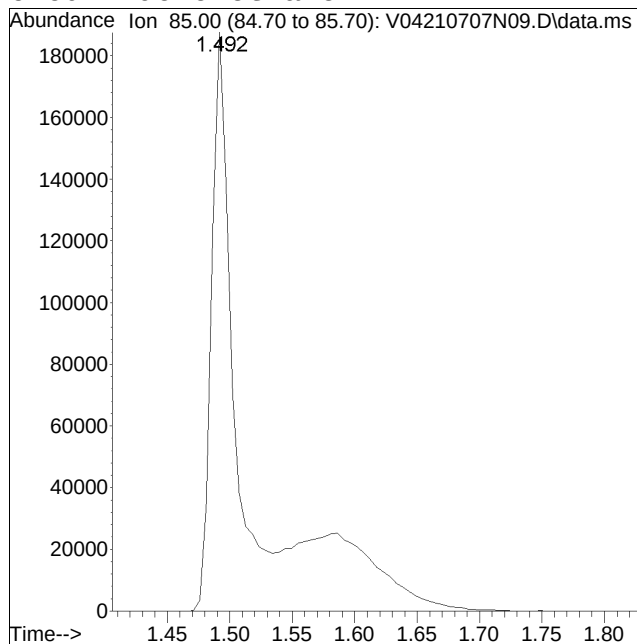
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Data File : V04210707N09.D Operator : V0A104:JC
Date Inj'd : 7/7/2021 11:25 pm Instrument : SV104
Sample : I8260STD100PPB Quant Date : 7/8/2021 10:23 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 223766

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

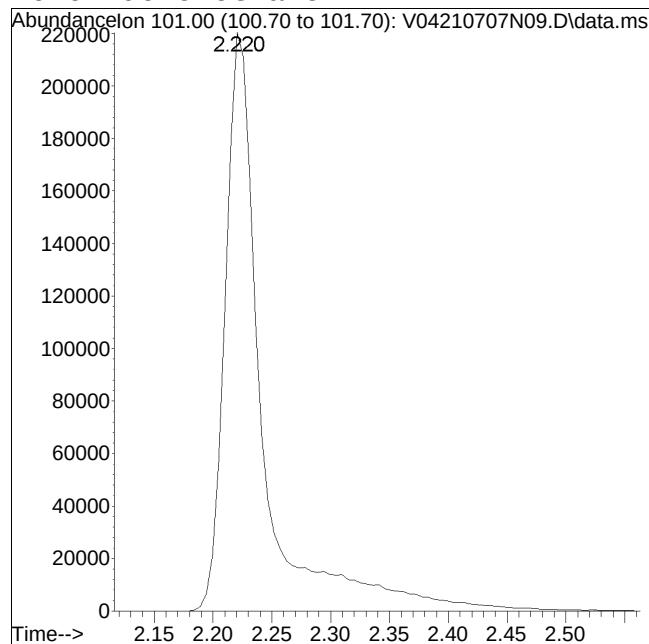
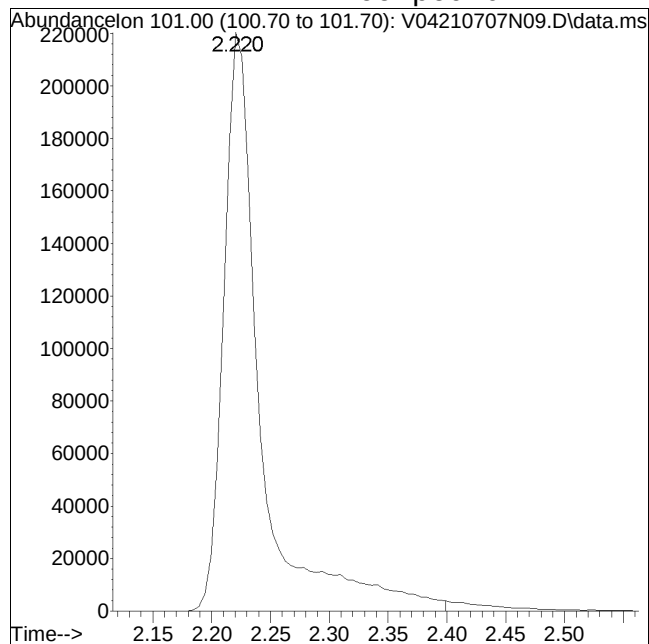


Manual Peak Response = 353241 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N09.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:25 pm Instrument : SV104
Sample : I8260STD100PPB Quant Date : 7/8/2021 10:23 am

Compound #7: Trichlorofluoromethane



Original Peak Response = 483633

Manual Peak Response = 494235 M1

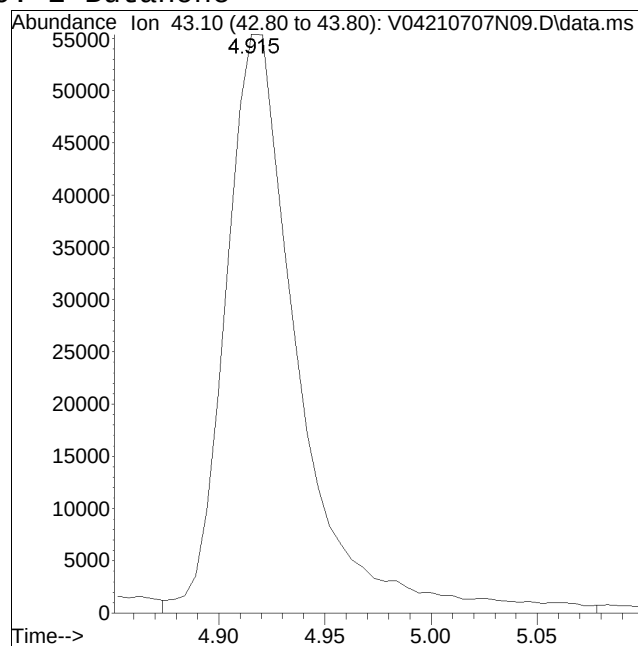
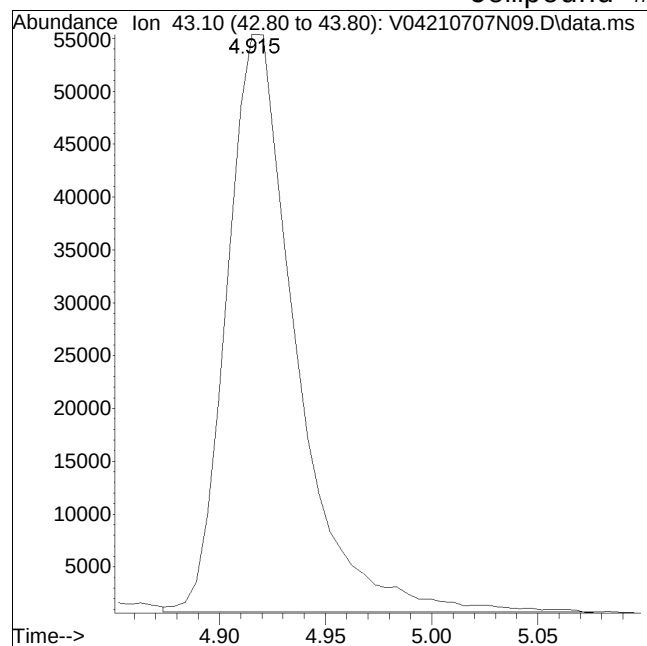
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04210707N09.D
Date Inj'd : 7/7/2021 11:25 pm
Sample : I8260STD100PPB

Method : V104_210707N_8260.m
Operator : VOA104:JC
Instrument : SV104
Quant Date : 7/8/2021 10:23 am

Compound #39: 2-Butanone



Original Peak Response = 123949

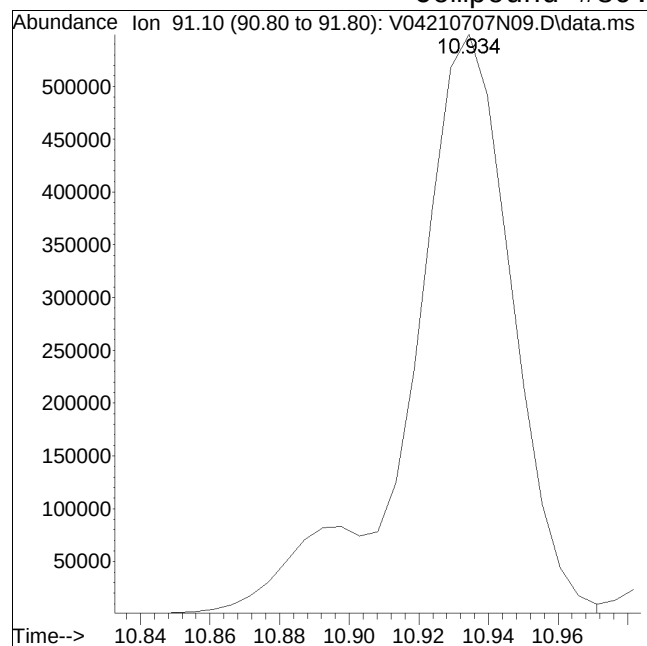
Manual Peak Response = 133138 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

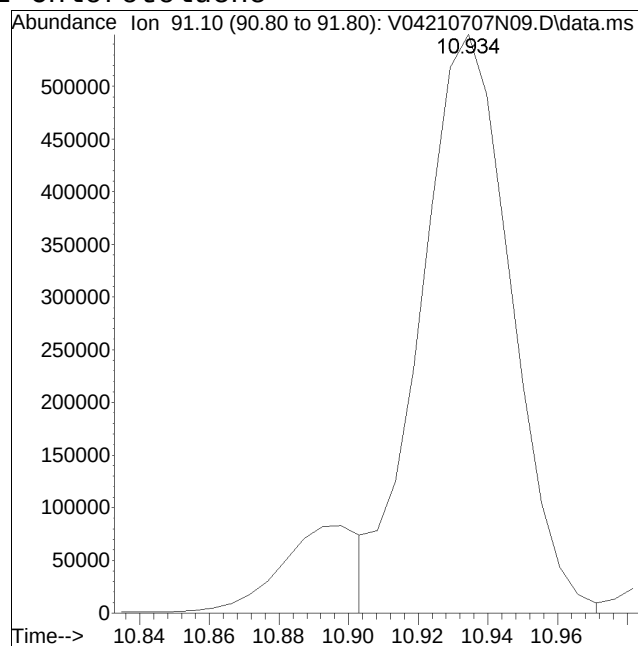
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N09.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:25 pm Instrument : SV104
Sample : I8260STD100PPB Quant Date : 7/8/2021 10:23 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1109949

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 984428 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N10.D
 Acq On : 7 Jul 2021 11:50 pm
 Operator : VOA104:JC
 Sample : I8260STD200PPB
 Misc : WG1521748,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 10:41:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	249418	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery =	101.52%		
59) Chlorobenzene-d5	9.063	117	186443	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery =	102.51%		
79) 1,4-Dichlorobenzene-d4	11.852	152	90329	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery =	98.52%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	69201	19.303	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.52%		
43) 1,2-Dichloroethane-d4	5.314	65	67267	19.912	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.56%		
60) Toluene-d8	7.238	98	239394	20.273	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.36%		
83) 4-Bromofluorobenzene	10.604	95	86017	20.261	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.31%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	682822M1	188.284	ug/L	
3) Chloromethane	1.701	50	908857	201.017	ug/L	99
4) Vinyl chloride	1.722	62	746892M1	185.138	ug/L	
5) Bromomethane	1.995	94	336928	175.580	ug/L	97
6) Chloroethane	2.089	64	206425M1	139.424	ug/L	
7) Trichlorofluoromethane	2.215	101	961597M1	177.514	ug/L	
8) Ethyl ether	2.493	74	340649	192.771	ug/L	88
10) 1,1-Dichloroethene	2.666	96	566548	183.320	ug/L	90
11) Carbon disulfide	2.692	76	1887877	174.444	ug/L	99
12) Freon-113	2.698	101	615693	179.123	ug/L	88
14) Acrolein	2.970	56	85300	197.734	ug/L	99
15) Methylene chloride	3.185	84	657032	180.275	ug/L	85
17) Acetone	3.232	43	146741	212.423	ug/L	# 89
18) trans-1,2-Dichloroethene	3.327	96	633904	181.572	ug/L	90
19) Methyl acetate	3.337	43	395760	199.898	ug/L	97
20) Methyl tert-butyl ether	3.411	73	1722674	193.131	ug/L	95
21) tert-Butyl alcohol	3.515	59	360377	974.320	ug/L	89
22) Diisopropyl ether	3.746	45	2512608	188.804	ug/L	94
23) 1,1-Dichloroethane	3.877	63	1384005	179.383	ug/L	98
24) Halothane	3.935	117	521079	182.775	ug/L	100
25) Acrylonitrile	3.930	53	230350	196.590	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N10.D
 Acq On : 7 Jul 2021 11:50 pm
 Operator : VOA104:JC
 Sample : I8260STD200PPB
 Misc : WG1521748,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 10:41:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.076	59	2287367	192.677	ug/L	94
27) Vinyl acetate	4.103	43	1516770	191.669	ug/L	99
28) cis-1,2-Dichloroethene	4.375	96	707204	184.765	ug/L	90
29) 2,2-Dichloropropane	4.464	77	986679	181.943	ug/L	98
30) Bromochloromethane	4.559	128	320114	180.934	ug/L	88
31) Cyclohexane	4.543	56	1285959	176.393	ug/L	86
32) Chloroform	4.632	83	1162879	182.855	ug/L	98
33) Ethyl acetate	4.737	43	584966	197.616	ug/L	97
34) Carbon tetrachloride	4.748	117	972943	186.281	ug/L	99
35) Tetrahydrofuran	4.774	42	210604	188.278	ug/L	92
37) 1,1,1-Trichloroethane	4.816	97	988891	183.085	ug/L	99
39) 2-Butanone	4.915	43	251699	205.163	ug/L	98
40) 1,1-Dichloropropene	4.931	75	839880	180.368	ug/L	99
41) Benzene	5.172	78	2444541	184.671	ug/L	95
42) tert-Amyl methyl ether	5.272	73	1629488	199.812	ug/L	99
44) 1,2-Dichloroethane	5.377	62	920370	186.803	ug/L	99
47) Methyl cyclohexane	5.728	83	1021226	187.262	ug/L	84
48) Trichloroethene	5.754	95	671967	182.915	ug/L	97
50) Dibromomethane	6.189	93	393139	193.640	ug/L	100
51) 1,2-Dichloropropane	6.284	63	808027	185.947	ug/L	98
53) 2-Chloroethyl vinyl ether	6.981	63	462790	203.553	ug/L	95
54) Bromodichloromethane	6.368	83	942855	193.096	ug/L	100
57) 1,4-Dioxane	6.577	88	283068	9707.649	ug/L #	82
58) cis-1,3-Dichloropropene	7.044	75	1095772	192.799	ug/L	99
61) Toluene	7.290	92	1515205	188.693	ug/L	99
62) 4-Methyl-2-pentanone	7.736	58	242991	196.506	ug/L	92
63) Tetrachloroethene	7.731	166	759883	186.726	ug/L	100
65) trans-1,3-Dichloropropene	7.789	75	945684	195.415	ug/L	99
67) Ethyl methacrylate	7.972	69	716519	187.948	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	440121	188.869	ug/L	98
69) Chlorodibromomethane	8.176	129	713668	197.456	ug/L	99
70) 1,3-Dichloropropane	8.287	76	884911	191.616	ug/L	100
71) 1,2-Dibromoethane	8.439	107	584547	195.498	ug/L	100
72) 2-Hexanone	8.738	43	410936	206.214	ug/L	97
73) Chlorobenzene	9.084	112	1783261	188.272	ug/L	100
74) Ethylbenzene	9.120	91	2812267	181.987	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.167	131	698604	195.426	ug/L	100
76) p/m Xylene	9.304	106	2183135	350.992	ug/L	98
77) o Xylene	9.849	106	2130285	359.378	ug/L	97
78) Styrene	9.922	104	3496777	353.287	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N10.D
 Acq On : 7 Jul 2021 11:50 pm
 Operator : VOA104:JC
 Sample : I8260STD200PPB
 Misc : WG1521748,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 10:41:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	440975	208.961	ug/L	100
82)	Isopropylbenzene	10.253	105	2875421	189.371	ug/L	99
84)	Bromobenzene	10.714	156	714154	195.500	ug/L	98
85)	n-Propylbenzene	10.761	91	3181470	186.172	ug/L	100
86)	1,4-Dichlorobutane	10.788	55	1121142	193.367	ug/L	99
87)	1,1,2,2-Tetrachloroethane	10.877	83	611389	198.224	ug/L	99
88)	4-Ethyltoluene	10.898	105	2701789	182.542	ug/L	99
89)	2-Chlorotoluene	10.934	91	1854712	184.182	ug/L	100
90)	1,3,5-Trimethylbenzene	11.002	105	2307425	186.370	ug/L	98
91)	1,2,3-Trichloropropane	11.013	75	456665	195.498	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.071	53	221467	194.796	ug/L	93
93)	4-Chlorotoluene	11.128	91	1966213	188.555	ug/L	99
94)	tert-Butylbenzene	11.349	119	1980986	190.114	ug/L	99
97)	1,2,4-Trimethylbenzene	11.432	105	2317703	188.917	ug/L	98
98)	sec-Butylbenzene	11.543	105	3036369	183.037	ug/L	100
99)	p-Isopropyltoluene	11.705	119	2480703	183.729	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	1357797	188.876	ug/L	98
101)	1,4-Dichlorobenzene	11.868	146	1360942	188.846	ug/L	99
102)	p-Diethylbenzene	12.088	119	1463416	184.707	ug/L	98
103)	n-Butylbenzene	12.151	91	2166631	181.269	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	1272299	190.747	ug/L	97
105)	1,2,4,5-Tetramethylben...	12.895	119	2371137	188.493	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.094	155	107881	209.910	ug/L	99
107)	1,3,5-Trichlorobenzene	13.121	180	952763	183.543	ug/L	99
108)	Hexachlorobutadiene	13.703	225	540981	183.122	ug/L	100
109)	1,2,4-Trichlorobenzene	13.729	180	874255	185.546	ug/L	99
110)	Naphthalene	14.017	128	1915734	195.214	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	803165	190.910	ug/L	99

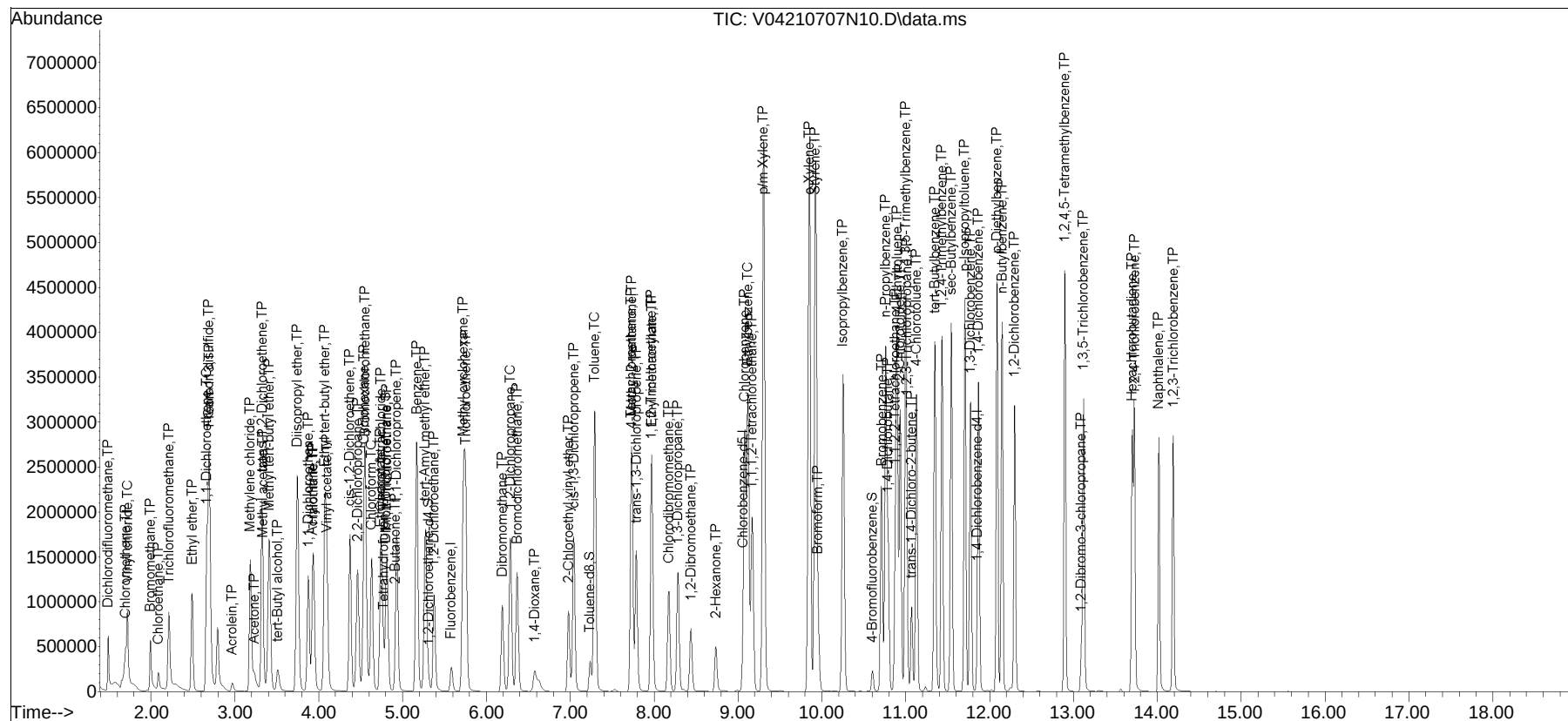
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N10.D
 Acq On : 7 Jul 2021 11:50 pm
 Operator : VOA104:JC
 Sample : I8260STD200PPB
 Misc : WG1521748,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 10:41:56 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

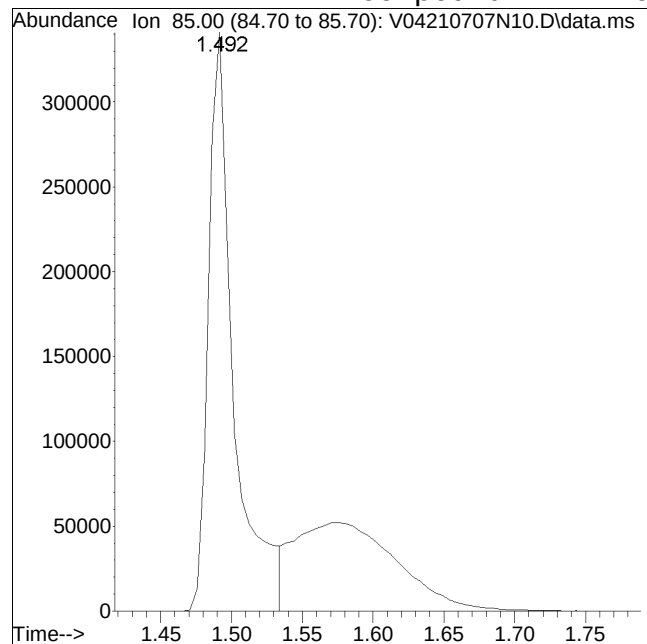
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

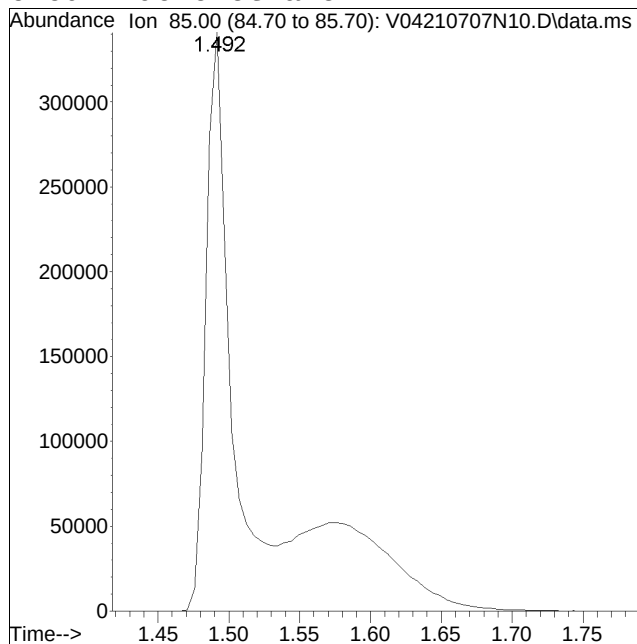
Data Path : I:\VOLATILES\V0A104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N10.D Operator : V0A104:JC
Date Inj'd : 7/7/2021 11:50 pm Instrument : SV104
Sample : I8260STD200PPB Quant Date : 7/8/2021 10:23 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 419760

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

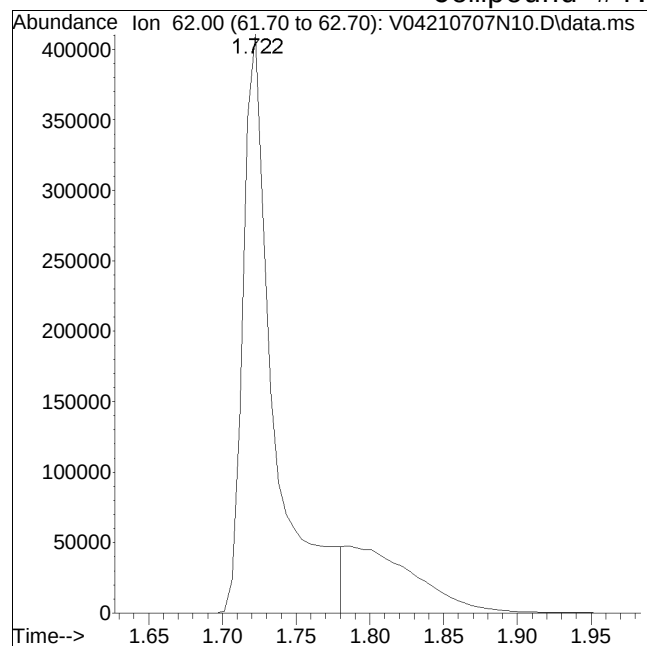


Manual Peak Response = 682822 M1

Manual Integration Report

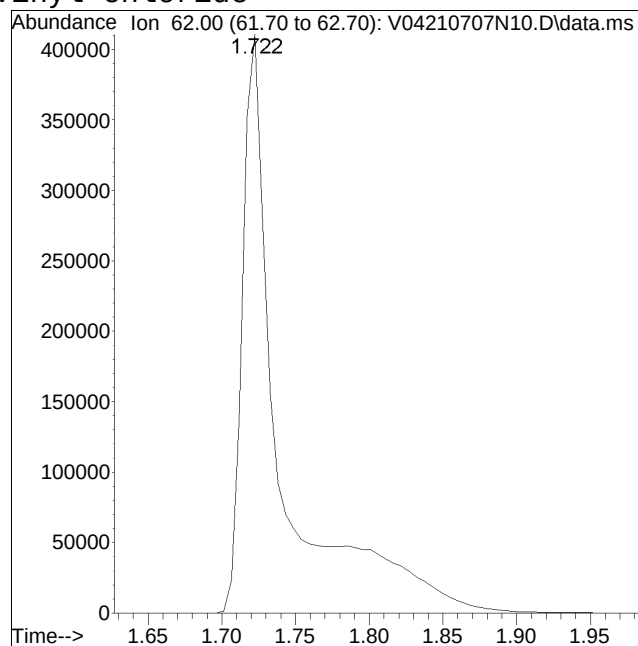
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N10.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:50 pm Instrument : SV104
Sample : I8260STD200PPB Quant Date : 7/8/2021 10:23 am

Compound #4: Vinyl chloride



Original Peak Response = 590698

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

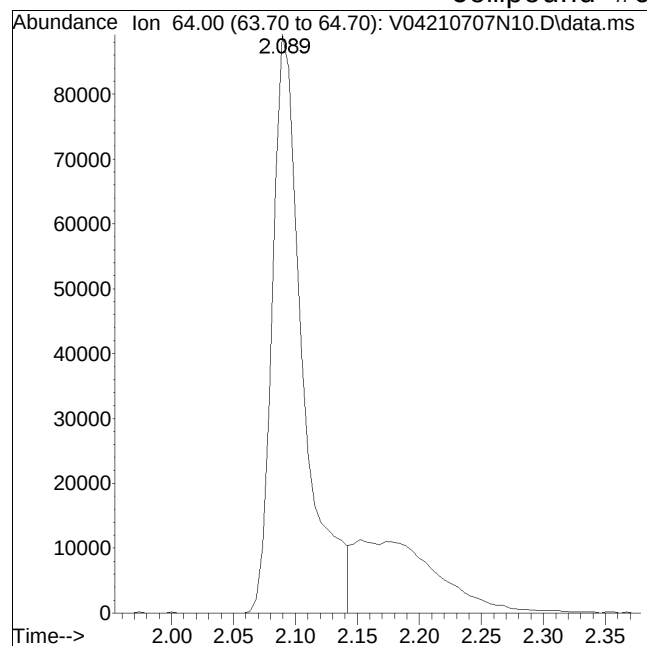


Manual Peak Response = 746892 M1

Manual Integration Report

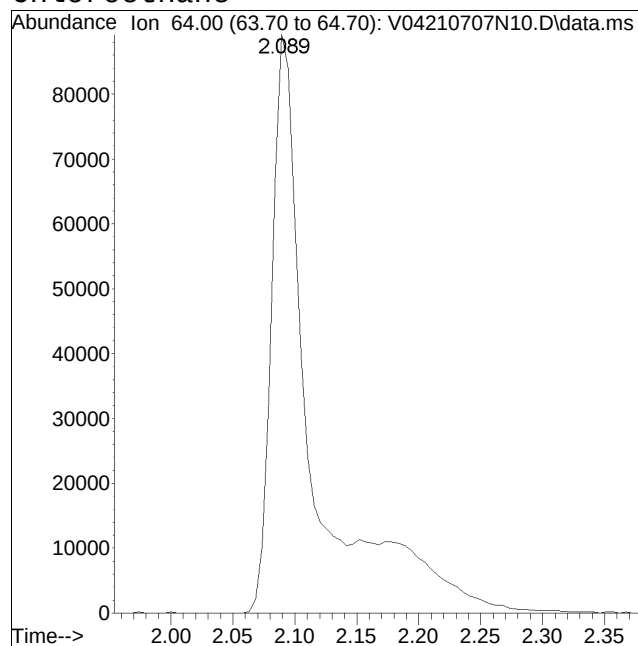
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N10.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:50 pm Instrument : SV104
Sample : I8260STD200PPB Quant Date : 7/8/2021 10:23 am

Compound #6: Chloroethane



Original Peak Response = 153219

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

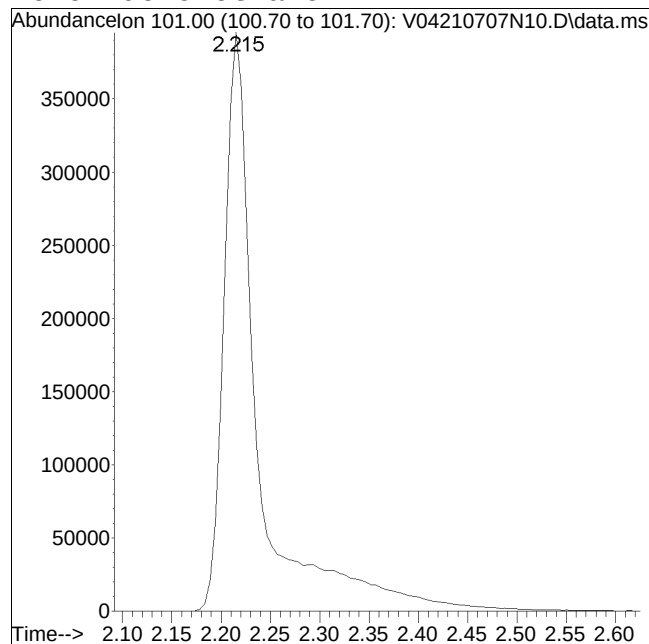
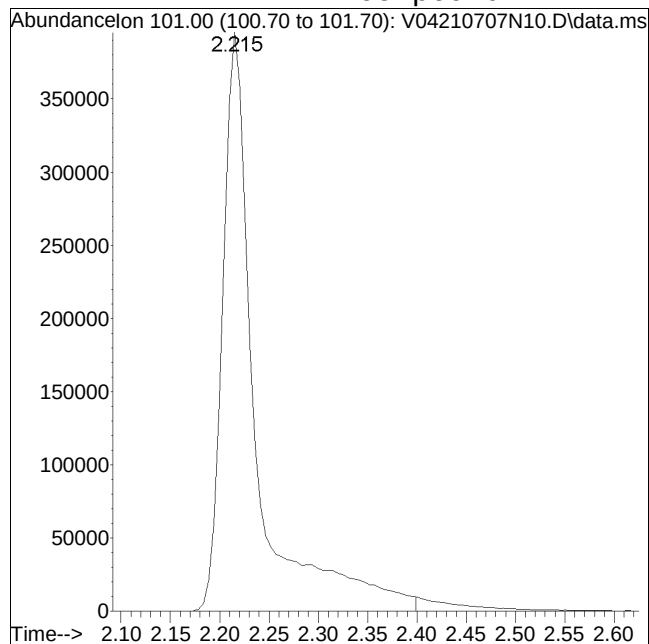


Manual Peak Response = 206425 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N10.D Operator : VOA104:JC
Date Inj'd : 7/7/2021 11:50 pm Instrument : SV104
Sample : I8260STD200PPB Quant Date : 7/8/2021 10:23 am

Compound #7: Trichlorofluoromethane



Original Peak Response = 933233

Manual Peak Response = 961597 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N11.D
 Acq On : 8 Jul 2021 12:16 am
 Operator : VOA104:JC
 Sample : I8260STD300PPB
 Misc : WG1521748,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 10:43:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	246223	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery	=	100.22%	
59) Chlorobenzene-d5	9.063	117	185761	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery	=	102.13%	
79) 1,4-Dichlorobenzene-d4	11.857	152	88193	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery	=	96.19%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68505	19.357	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	96.78%	
43) 1,2-Dichloroethane-d4	5.314	65	67785	20.326	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.63%	
60) Toluene-d8	7.238	98	237957	20.225	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	101.13%	
83) 4-Bromofluorobenzene	10.604	95	85708	20.677	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	103.38%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	1026949M1	286.850	ug/L	
3) Chloromethane	1.702	50	1392065	311.886	ug/L	99
4) Vinyl chloride	1.723	62	1149202	288.557	ug/L	99
5) Bromomethane	1.995	94	501337	264.647	ug/L	96
6) Chloroethane	2.084	64	246803M1	168.860	ug/L	
7) Trichlorofluoromethane	2.210	101	1385429M1	259.074	ug/L	
8) Ethyl ether	2.488	74	508152	291.291	ug/L	88
10) 1,1-Dichloroethene	2.666	96	840730	275.568	ug/L	90
11) Carbon disulfide	2.687	76	2797328	261.834	ug/L	99
12) Freon-113	2.698	101	906328	267.099	ug/L	87
14) Acrolein	2.970	56	129465	304.008	ug/L	98
15) Methylene chloride	3.185	84	987724	274.526	ug/L	86
17) Acetone	3.232	43	201131	294.936	ug/L	# 84
18) trans-1,2-Dichloroethene	3.322	96	952186	276.278	ug/L	91
19) Methyl acetate	3.337	43	584879	299.256	ug/L	97
20) Methyl tert-butyl ether	3.411	73	2559947	290.723	ug/L	95
21) tert-Butyl alcohol	3.516	59	532109	1457.285	ug/L	93
22) Diisopropyl ether	3.746	45	3727509	283.729	ug/L	94
23) 1,1-Dichloroethane	3.877	63	2070287	271.815	ug/L	98
24) Halothane	3.935	117	782877	278.167	ug/L	99
25) Acrylonitrile	3.930	53	336917	291.270	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N11.D
 Acq On : 8 Jul 2021 12:16 am
 Operator : VOA104:JC
 Sample : I8260STD300PPB
 Misc : WG1521748,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 10:43:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.077	59	3409741	290.947	ug/L	94
27) Vinyl acetate	4.103	43	2226049	284.948	ug/L	100
28) cis-1,2-Dichloroethene	4.375	96	1059937	280.514	ug/L	90
29) 2,2-Dichloropropane	4.465	77	1455489	271.874	ug/L	98
30) Bromochloromethane	4.559	128	480589	275.163	ug/L	90
31) Cyclohexane	4.543	56	1867920	259.545	ug/L	87
32) Chloroform	4.632	83	1743616	277.730	ug/L	99
33) Ethyl acetate	4.737	43	847152	289.903	ug/L	98
34) Carbon tetrachloride	4.748	117	1464015	283.940	ug/L	99
35) Tetrahydrofuran	4.774	42	305660	276.803	ug/L	92
37) 1,1,1-Trichloroethane	4.811	97	1475425	276.707	ug/L	99
39) 2-Butanone	4.916	43	370560	305.967	ug/L	98
40) 1,1-Dichloropropene	4.931	75	1250905	272.124	ug/L	99
41) Benzene	5.167	78	3641469	278.662	ug/L	95
42) tert-Amyl methyl ether	5.272	73	2447384	303.999	ug/L	99
44) 1,2-Dichloroethane	5.377	62	1388765	285.529	ug/L	100
47) Methyl cyclohexane	5.728	83	1506430	279.818	ug/L	85
48) Trichloroethene	5.754	95	995446	274.485	ug/L	98
50) Dibromomethane	6.190	93	591896	295.320	ug/L	99
51) 1,2-Dichloropropane	6.284	63	1210821	282.256	ug/L	98
53) 2-Chloroethyl vinyl ether	6.981	63	696778	310.447	ug/L	97
54) Bromodichloromethane	6.368	83	1425930	295.818	ug/L	100
57) 1,4-Dioxane	6.578	88	416538	14470.286	ug/L #	83
58) cis-1,3-Dichloropropene	7.044	75	1646850	293.521	ug/L	99
61) Toluene	7.296	92	2281626	285.181	ug/L	99
62) 4-Methyl-2-pentanone	7.736	58	352809	286.364	ug/L	90
63) Tetrachloroethene	7.731	166	1146324	282.720	ug/L	100
65) trans-1,3-Dichloropropene	7.789	75	1428061	296.176	ug/L	98
67) Ethyl methacrylate	7.972	69	1061834	279.549	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	657799	283.318	ug/L	99
69) Chlorodibromomethane	8.177	129	1089435	302.529	ug/L	99
70) 1,3-Dichloropropane	8.287	76	1331408	289.357	ug/L	100
71) 1,2-Dibromoethane	8.439	107	879032	295.065	ug/L	100
72) 2-Hexanone	8.732	43	600698	302.546	ug/L	95
73) Chlorobenzene	9.084	112	2703310	286.456	ug/L	100
74) Ethylbenzene	9.120	91	4225733	274.459	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.173	131	1068829	300.090	ug/L	99
76) p/m Xylene	9.309	106	3229970	521.203	ug/L	98
77) o Xylene	9.854	106	3145412	532.577	ug/L	99
78) Styrene	9.928	104	5174362	524.697	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N11.D
 Acq On : 8 Jul 2021 12:16 am
 Operator : VOA104:JC
 Sample : I8260STD300PPB
 Misc : WG1521748,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 10:43:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	669221	324.799	ug/L	100
82)	Isopropylbenzene	10.253	105	4291073	289.449	ug/L	100
84)	Bromobenzene	10.714	156	1094119	306.770	ug/L	98
85)	n-Propylbenzene	10.762	91	4741996	284.210	ug/L	100
86)	1,4-Dichlorobutane	10.793	55	1666546	294.396	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.877	83	909250	301.936	ug/L	100
88)	4-Ethyltoluene	10.898	105	4052209	280.412	ug/L	99
89)	2-Chlorotoluene	10.935	91	2820315M1	286.854	ug/L	
90)	1,3,5-Trimethylbenzene	11.003	105	3412420	282.295	ug/L	98
91)	1,2,3-Trichloropropane	11.013	75	668156	292.964	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.071	53	330209	297.476	ug/L	91
93)	4-Chlorotoluene	11.129	91	2982440	292.936	ug/L	99
94)	tert-Butylbenzene	11.349	119	2940207	289.004	ug/L	98
97)	1,2,4-Trimethylbenzene	11.433	105	3472205	289.876	ug/L	97
98)	sec-Butylbenzene	11.543	105	4475813	276.344	ug/L	100
99)	p-Isopropyltoluene	11.705	119	3671572	278.514	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	2054573	292.722	ug/L	98
101)	1,4-Dichlorobenzene	11.873	146	2057201	292.374	ug/L	99
102)	p-Diethylbenzene	12.088	119	2182010	282.076	ug/L	97
103)	n-Butylbenzene	12.151	91	3189025	273.268	ug/L	98
104)	1,2-Dichlorobenzene	12.303	146	1905925	292.663	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.901	119	3538274	288.087	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	163443	325.722	ug/L	100
107)	1,3,5-Trichlorobenzene	13.121	180	1453083	286.706	ug/L	99
108)	Hexachlorobutadiene	13.703	225	814274	282.307	ug/L	100
109)	1,2,4-Trichlorobenzene	13.729	180	1341063	291.512	ug/L	98
110)	Naphthalene	14.017	128	2894417	302.085	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	1233137	300.212	ug/L	99

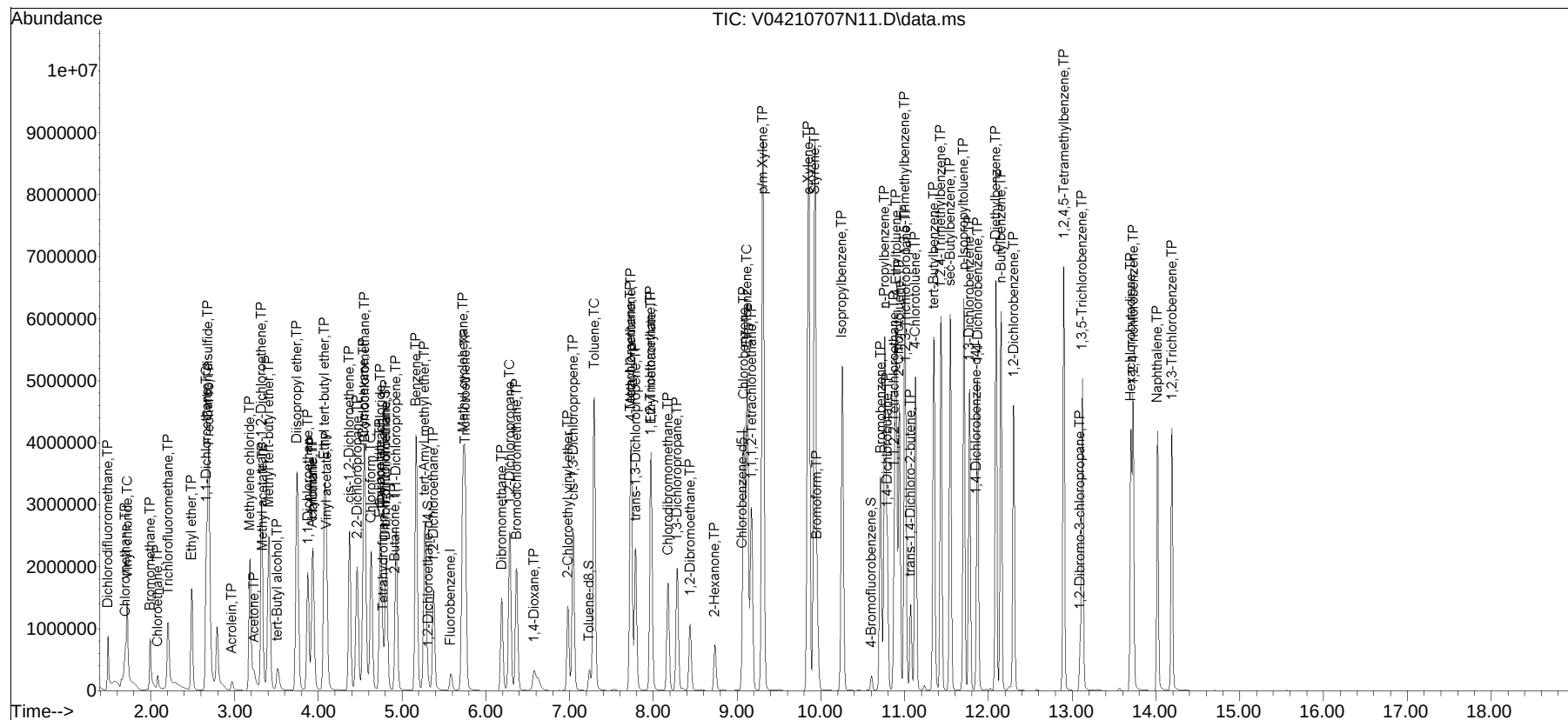
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N11.D
 Acq On : 8 Jul 2021 12:16 am
 Operator : VOA104:JC
 Sample : I8260STD300PPB
 Misc : WG1521748,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 10:43:39 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 10:22:13 2021
 Response via : Initial Calibration

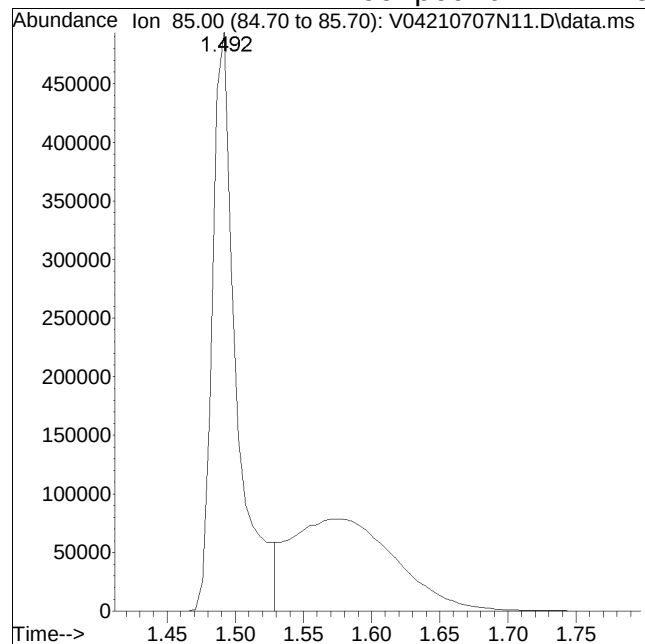
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

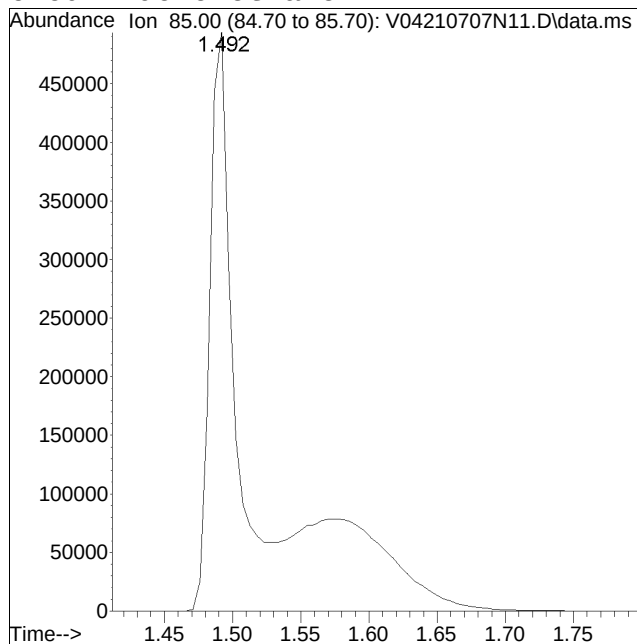
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N11.D Operator : VOA104:JC
Date Inj'd : 7/8/2021 12:16 am Instrument : SV104
Sample : I8260STD300PPB Quant Date : 7/8/2021 10:23 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 604423

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

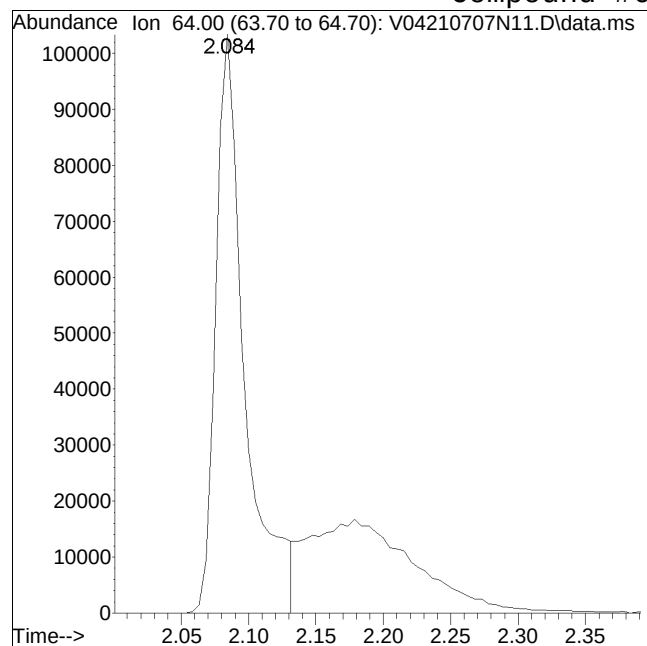


Manual Peak Response = 1026949 M1

Manual Integration Report

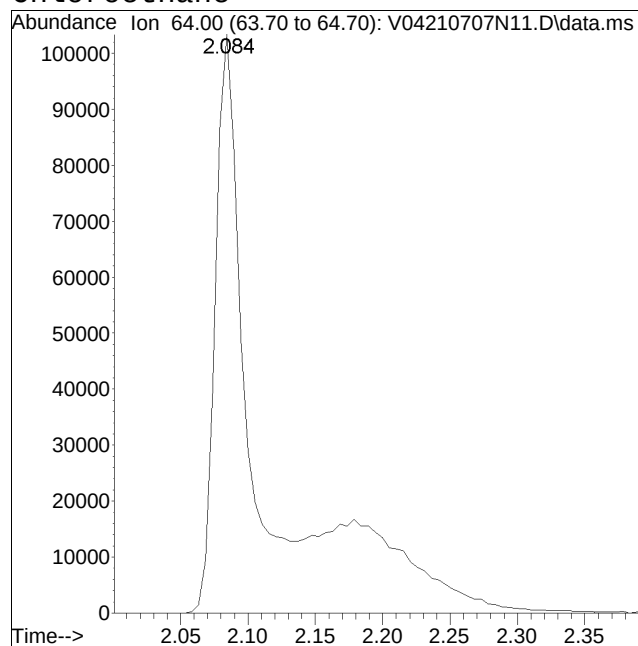
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04210707N11.D Operator : VOA104:JC
Date Inj'd : 7/8/2021 12:16 am Instrument : SV104
Sample : I8260STD300PPB Quant Date : 7/8/2021 10:23 am

Compound #6: Chloroethane



Original Peak Response = 154525

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

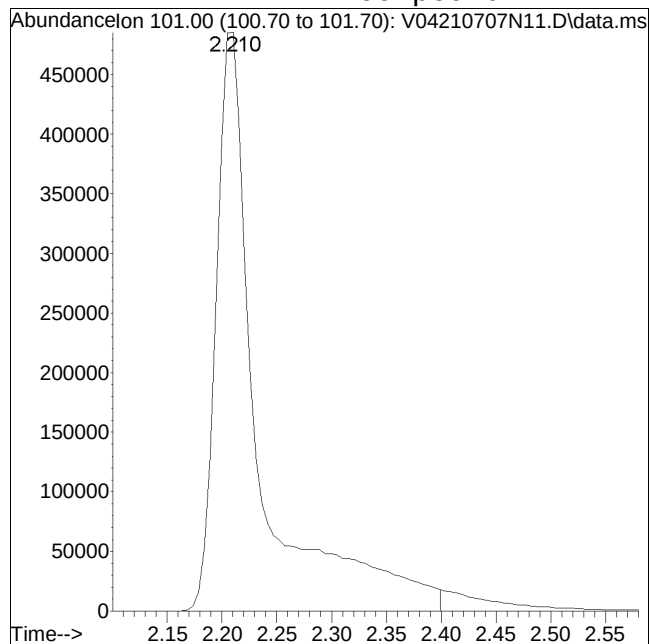


Manual Peak Response = 246803 M1

Manual Integration Report

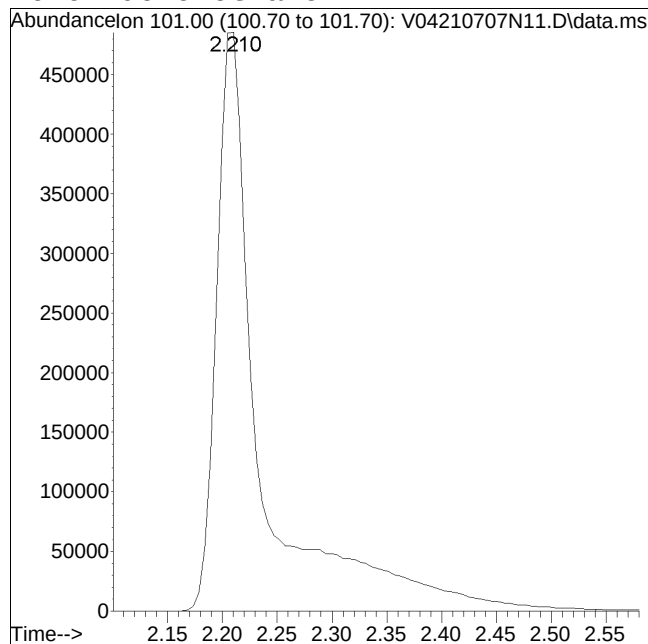
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N11.D Operator : VOA104:JC
Date Inj'd : 7/8/2021 12:16 am Instrument : SV104
Sample : I8260STD300PPB Quant Date : 7/8/2021 10:23 am

Compound #7: Trichlorofluoromethane



Original Peak Response = 1328515

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

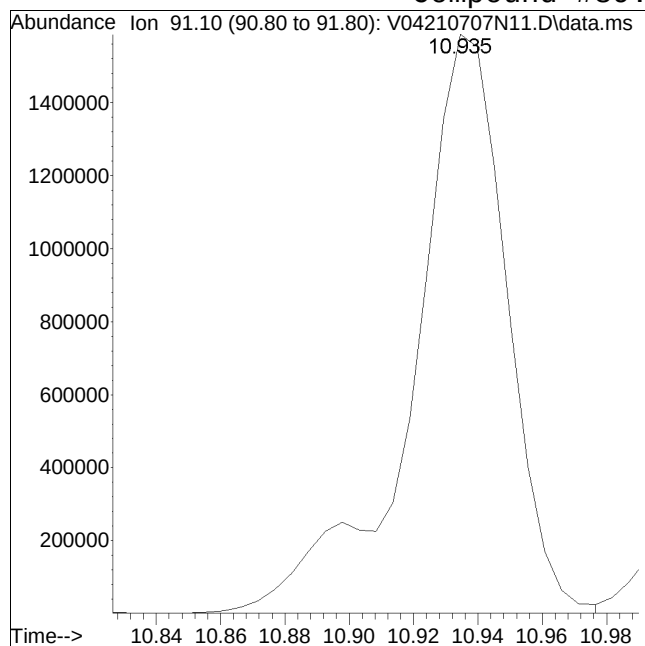


Manual Peak Response = 1385429 M1

Manual Integration Report

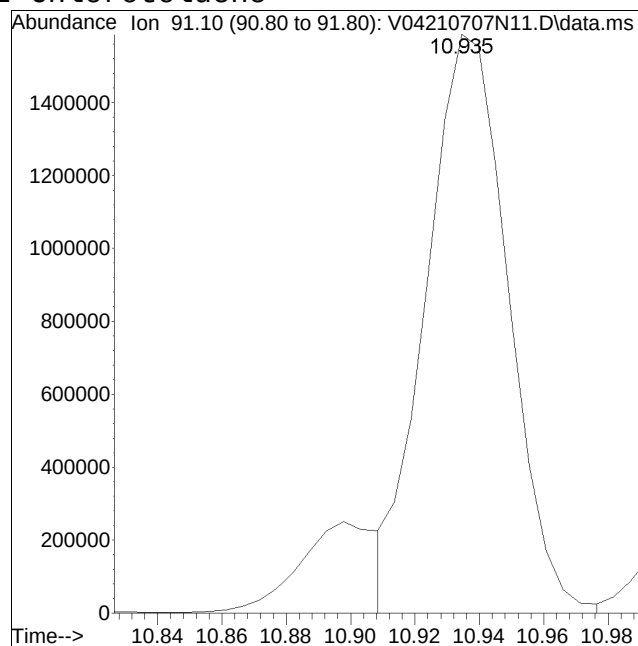
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Data File : V04210707N11.D Operator : VOA104:JC
Date Inj'd : 7/8/2021 12:16 am Instrument : SV104
Sample : I8260STD300PPB Quant Date : 7/8/2021 10:23 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3230172

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 2820315 M1

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TP	Dichlorodifluoromethane	0.290	0.324	-11.7	112	0.00
3 TP	Chloromethane	0.386	0.431	-11.7	119	0.00
4 TC	Vinyl chloride	0.321	0.357	-11.2	111	0.00
5 TP	Bromomethane	* 40.000	45.898	-14.7	107	0.00
6 TP	Chloroethane	0.132	0.128	3.0	108	0.00
7 TP	Trichlorofluoromethane	0.418	0.456	-9.1	105	0.00
8 TP	Ethyl ether	0.145	0.136	6.2	97	0.00
10 TC	1,1-Dichloroethene	0.241	0.244	-1.2	99	0.00
11 TP	Carbon disulfide	0.896	0.835	6.8	97	0.00
12 TP	Freon-113	0.266	0.235	11.7	85	0.00
14 TP	Acrolein	0.034	0.041#	-20.6#	119	0.00
15 TP	Methylene chloride	* 40.000	40.019	-0.0	98	0.00
17 TP	Acetone	* 40.000	41.370	-3.4	109	0.00
18 TP	trans-1,2-Dichloroethene	0.273	0.276	-1.1	99	0.00
19 TP	Methyl acetate	0.154	0.146	5.2	92	0.00
20 TP	Methyl tert-butyl ether	0.699	0.643	8.0	90	0.00
21 TP	tert-Butyl alcohol	0.030	0.029#	3.3	98	0.00
22 TP	Diisopropyl ether	0.999	1.011	-1.2	95	0.00
23 TP	1,1-Dichloroethane	0.614	0.605	1.5	98	0.00
24 TP	Halothane	0.221	0.199	10.0	87	0.00
25 TP	Acrylonitrile	0.092	0.087	5.4	93	0.00
26 TP	Ethyl tert-butyl ether	0.898	0.938	-4.5	99	0.00
27 TP	Vinyl acetate	0.610	0.586	3.9	93	0.00
28 TP	cis-1,2-Dichloroethene	0.306	0.287	6.2	94	0.00
29 TP	2,2-Dichloropropane	0.433	0.404	6.7	93	0.00
30 TP	Bromochloromethane	0.141	0.140	0.7	99	0.00
31 TP	Cyclohexane	0.574	0.483	15.9	83	0.00
32 TC	Chloroform	0.536	0.510	4.9	100	0.00
33 TP	Ethyl acetate	0.229	0.220	3.9	93	0.00
34 TP	Carbon tetrachloride	0.400	0.403	-0.8	96	0.00
35 TP	Tetrahydrofuran	0.089	0.083	6.7	92	0.00
36 S	Dibromofluoromethane	0.305	0.289	5.2	101	0.00
37 TP	1,1,1-Trichloroethane	0.425	0.448	-5.4	104	0.00
39 TP	2-Butanone	* 40.000	38.843	2.9	94	0.00
40 TP	1,1-Dichloropropene	0.346	0.373	-7.8	100	0.00
41 TP	Benzene	1.017	1.028	-1.1	97	0.00
42 TP	tert-Amyl methyl ether	0.635	0.625	1.6	96	0.00
43 S	1,2-Dichloroethane-d4	0.289	0.268	7.3	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.399	0.390	2.3	99	0.00
47 TP	Methyl cyclohexane	0.411	0.375	8.8	86	0.00
48 TP	Trichloroethene	0.280	0.293	-4.6	100	0.00
50 TP	Dibromomethane	0.163	0.157	3.7	96	0.00
51 TC	1,2-Dichloropropane	0.338	0.336	0.6	97	0.00
53 TP	2-Chloroethyl vinyl ether	0.170	0.173	-1.8	95	0.00
54 TP	Bromodichloromethane	0.385	0.380	1.3	97	0.00
57 TP	1,4-Dioxane	0.00221	0.00221#	0.0	95	0.00
58 TP	cis-1,3-Dichloropropene	0.415	0.440	-6.0	97	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
60 S	Toluene-d8	1.259	1.263	-0.3	101	0.00
61 TC	Toluene	0.836	0.826	1.2	97	0.00
62 TP	4-Methyl-2-pentanone	0.123	0.131	-6.5	100	0.00
63 TP	Tetrachloroethene	0.392	0.413	-5.4	96	0.00
65 TP	trans-1,3-Dichloropropene	0.471	0.493	-4.7	96	0.00
67 TP	Ethyl methacrylate	0.387	0.356	8.0	88	0.00
68 TP	1,1,2-Trichloroethane	0.234	0.246	-5.1	100	0.00
69 TP	Chlorodibromomethane	0.347	0.381	-9.8	99	0.00
70 TP	1,3-Dichloropropane	0.459	0.475	-3.5	97	0.00
71 TP	1,2-Dibromoethane	* 40.000	39.152	2.1	97	0.00
72 TP	2-Hexanone	0.235	0.212	9.8	100	0.00
73 TP	Chlorobenzene	0.964	0.987	-2.4	98	0.00
74 TC	Ethylbenzene	1.631	1.580	3.1	97	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.351	0.363	-3.4	96	0.00
76 TP	p/m Xylene	* 80.000	83.508	-4.4	95	0.00
77 TP	o Xylene	0.641	0.597	6.9	95	0.00
78 TP	Styrene	1.017	0.983	3.3	94	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80 TP	Bromoform	0.444	0.473	-6.5	102	0.00
82 TP	Isopropylbenzene	3.164	3.190	-0.8	96	0.00
83 S	4-Bromofluorobenzene	0.926	0.934	-0.9	100	0.00
84 TP	Bromobenzene	0.768	0.799	-4.0	100	0.00
85 TP	n-Propylbenzene	3.548	3.624	-2.1	97	0.00
86 TP	1,4-Dichlorobutane	1.259	1.161	7.8	91	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.659	0.676	-2.6	100	0.00
88 TP	4-Ethyltoluene	3.053	3.086	-1.1	95	0.00
89 TP	2-Chlorotoluene	2.126	2.117	0.4	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.596	2.588	0.3	95	0.00
91 TP	1,2,3-Trichloropropane	0.510	0.498	2.4	97	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.236	0.217	8.1	87	0.00
93 TP	4-Chlorotoluene	2.208	2.226	-0.8	97	0.00
94 TP	tert-Butylbenzene	2.194	2.213	-0.9	97	0.00
97 TP	1,2,4-Trimethylbenzene	2.594	2.660	-2.5	99	0.00
98 TP	sec-Butylbenzene	3.441	3.459	-0.5	95	0.00
99 TP	p-Isopropyltoluene	2.789	2.796	-0.3	94	0.00
100 TP	1,3-Dichlorobenzene	1.514	1.545	-2.0	98	0.00
101 TP	1,4-Dichlorobenzene	1.547	1.534	0.8	97	0.00
102 TP	p-Diethylbenzene	1.641	1.544	5.9	89	0.00
103 TP	n-Butylbenzene	2.478	2.581	-4.2	99	0.00
104 TP	1,2-Dichlorobenzene	1.427	1.438	-0.8	98	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.664	2.583	3.0	94	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.110	0.114	-3.6	102	0.00
107 TP	1,3,5-Trichlorobenzene	1.078	1.037	3.8	91	0.00
108 TP	Hexachlorobutadiene	0.613	0.590	3.8	91	0.00
109 TP	1,2,4-Trichlorobenzene	0.991	0.976	1.5	95	0.00
110 TP	Naphthalene	2.108	2.078	1.4	97	0.00
111 TP	1,2,3-Trichlorobenzene	0.902	0.890	1.3	96	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	246443	20.000	ug/L	0.00
Standard Area 1 = 245682			Recovery	=	100.31%	
59) Chlorobenzene-d5	9.062	117	184276	20.000	ug/L	0.00
Standard Area 1 = 181885			Recovery	=	101.31%	
79) 1,4-Dichlorobenzene-d4	11.852	152	92629	20.000	ug/L	0.00
Standard Area 1 = 91684			Recovery	=	101.03%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	71137	18.950	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	94.75%	
43) 1,2-Dichloroethane-d4	5.314	65	66021	18.552	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	92.76%	
60) Toluene-d8	7.238	98	232830	20.066	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.33%	
83) 4-Bromofluorobenzene	10.604	95	86492	20.161	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	100.81%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.491	85	159672M1	44.617	ug/L	
3) Chloromethane	1.701	50	212276	44.574	ug/L	99
4) Vinyl chloride	1.722	62	175915	44.500	ug/L	90
5) Bromomethane	1.995	94	81001	45.898	ug/L	96
6) Chloroethane	2.100	64	62859	38.522	ug/L	90
7) Trichlorofluoromethane	2.220	101	224653	43.631	ug/L	100
8) Ethyl ether	2.493	74	67242	37.636	ug/L	86
10) 1,1-Dichloroethene	2.671	96	120242	40.420	ug/L	90
11) Carbon disulfide	2.697	76	411618	37.266	ug/L	99
12) Freon-113	2.703	101	115640	35.224	ug/L	# 67
14) Acrolein	2.975	56	20292	48.861	ug/L	99
15) Methylene chloride	3.185	84	140448	40.019	ug/L	86
17) Acetone	3.232	43	29768	41.370	ug/L	91
18) trans-1,2-Dichloroethene	3.327	96	136201	40.473	ug/L	89
19) Methyl acetate	3.337	43	71927	38.024	ug/L	96
20) Methyl tert-butyl ether	3.410	73	317066	36.790	ug/L	95
21) tert-Butyl alcohol	3.510	59	71209	193.830	ug/L	90
22) Diisopropyl ether	3.746	45	498511	40.501	ug/L	94
23) 1,1-Dichloroethane	3.877	63	298257	39.415	ug/L	97
24) Halothane	3.940	117	98080	35.947	ug/L	99
25) Acrylonitrile	3.935	53	42894	37.823	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.076	59	462106	41.766	ug/L	96
27) Vinyl acetate	4.103	43	289000	38.470	ug/L	99
28) cis-1,2-Dichloroethene	4.375	96	141240	37.444	ug/L	89
29) 2,2-Dichloropropane	4.464	77	199164	37.360	ug/L	99
30) Bromochloromethane	4.564	128	69062	39.755	ug/L #	85
31) Cyclohexane	4.548	56	238168	33.675	ug/L	86
32) Chloroform	4.632	83	251300	38.024	ug/L	99
33) Ethyl acetate	4.737	43	108529	38.538	ug/L	99
34) Carbon tetrachloride	4.747	117	198537	40.258	ug/L	100
35) Tetrahydrofuran	4.779	42	40698	36.909	ug/L	91
37) 1,1,1-Trichloroethane	4.816	97	220821	42.152	ug/L	98
39) 2-Butanone	4.920	43	51555M1	38.843	ug/L	
40) 1,1-Dichloropropene	4.931	75	183839	43.107	ug/L	99
41) Benzene	5.172	78	506484	40.432	ug/L	95
42) tert-Amyl methyl ether	5.277	73	308169	39.394	ug/L	98
44) 1,2-Dichloroethane	5.377	62	191997	39.018	ug/L	99
47) Methyl cyclohexane	5.728	83	184652	36.482	ug/L	83
48) Trichloroethene	5.754	95	144307	41.858	ug/L	97
50) Dibromomethane	6.194	93	77151	38.471	ug/L	99
51) 1,2-Dichloropropane	6.289	63	165614	39.751	ug/L	97
53) 2-Chloroethyl vinyl ether	6.981	63	85181	40.622	ug/L	95
54) Bromodichloromethane	6.367	83	187364	39.485	ug/L	99
57) 1,4-Dioxane	6.577	88	54514	1999.909	ug/L #	84
58) cis-1,3-Dichloropropene	7.044	75	216775	42.363	ug/L	99
61) Toluene	7.296	92	304250	39.475	ug/L	100
62) 4-Methyl-2-pentanone	7.736	58	48349	42.669	ug/L	93
63) Tetrachloroethene	7.731	166	152208	42.163	ug/L	100
65) trans-1,3-Dichloropropene	7.788	75	181538	41.813	ug/L	99
67) Ethyl methacrylate	7.977	69	131377	36.852	ug/L	99
68) 1,1,2-Trichloroethane	7.967	83	90515	42.053	ug/L	98
69) Chlorodibromomethane	8.176	129	140326	43.878	ug/L	100
70) 1,3-Dichloropropane	8.281	76	175069	41.425	ug/L	100
71) 1,2-Dibromoethane	8.438	107	113209	39.152	ug/L	100
72) 2-Hexanone	8.743	43	78087	36.031	ug/L	96
73) Chlorobenzene	9.083	112	363684	40.940	ug/L	100
74) Ethylbenzene	9.120	91	582312	38.756	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.167	131	133785	41.350	ug/L	99
76) p/m Xylene	9.304	106	462686	83.508	ug/L	98
77) o Xylene	9.849	106	440202	74.518	ug/L	99
78) Styrene	9.922	104	724860	77.354	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\210707N\V04210707N08.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.954	173	87599	42.554	ug/L	100
82)	Isopropylbenzene	10.253	105	590935	40.331	ug/L	99
84)	Bromobenzene	10.714	156	147995	41.604	ug/L	98
85)	n-Propylbenzene	10.761	91	671407	40.859	ug/L	99
86)	1,4-Dichlorobutane	10.787	55	215083	36.894	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.877	83	125279	41.075	ug/L	99
88)	4-Ethyltoluene	10.892	105	571615	40.427	ug/L	98
89)	2-Chlorotoluene	10.934	91	392257	39.833	ug/L	99
90)	1,3,5-Trimethylbenzene	10.997	105	479537	39.891	ug/L	98
91)	1,2,3-Trichloropropane	11.008	75	92341	39.109	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.070	53	40250	36.888	ug/L	99
93)	4-Chlorotoluene	11.128	91	412366	40.322	ug/L	99
94)	tert-Butylbenzene	11.348	119	410054	40.347	ug/L	99
97)	1,2,4-Trimethylbenzene	11.432	105	492739	41.020	ug/L	97
98)	sec-Butylbenzene	11.542	105	640796	40.208	ug/L	99
99)	p-Isopropyltoluene	11.705	119	517965	40.104	ug/L	98
100)	1,3-Dichlorobenzene	11.773	146	286258	40.836	ug/L	98
101)	1,4-Dichlorobenzene	11.867	146	284119	39.667	ug/L	99
102)	p-Diethylbenzene	12.088	119	286115	37.656	ug/L	97
103)	n-Butylbenzene	12.145	91	478232	41.678	ug/L	99
104)	1,2-Dichlorobenzene	12.297	146	266398	40.298	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	478589	38.789	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.094	155	21188	41.690	ug/L	100
107)	1,3,5-Trichlorobenzene	13.121	180	192126	38.478	ug/L	99
108)	Hexachlorobutadiene	13.703	225	109339	38.541	ug/L	100
109)	1,2,4-Trichlorobenzene	13.729	180	180873	39.427	ug/L	98
110)	Naphthalene	14.017	128	384942	39.431	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	164811	39.445	ug/L	99

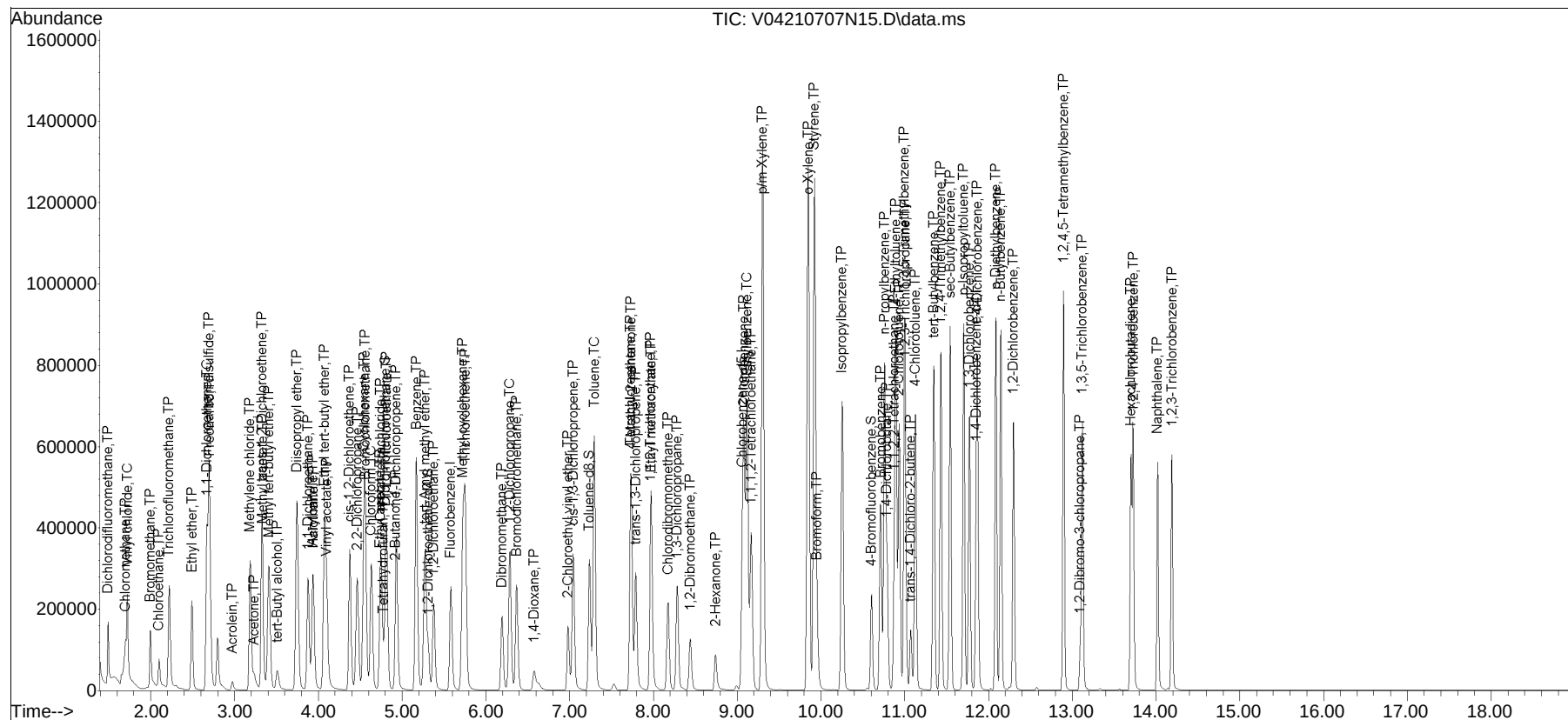
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\210707N\
 Data File : V04210707N15.D
 Acq On : 8 Jul 2021 1:57 am
 Operator : VOA104:JC
 Sample : C8260STD40PPB
 Misc : WG1521748,ICAL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 11:05:38 2021
 Quant Method : I:\VOLATILES\VOA104\2021\210707N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

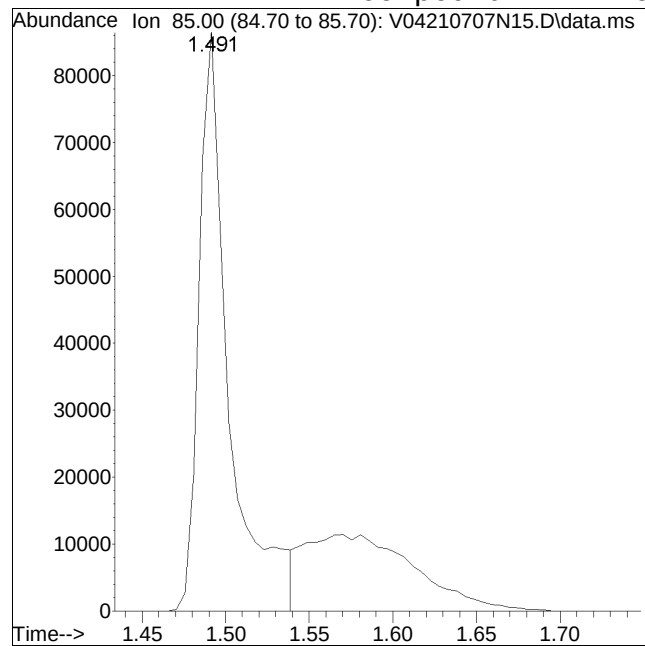
Sub List : 8260-CurveSoil - Megamix plus Diox7N\V04210707N08.D•



Manual Integration Report

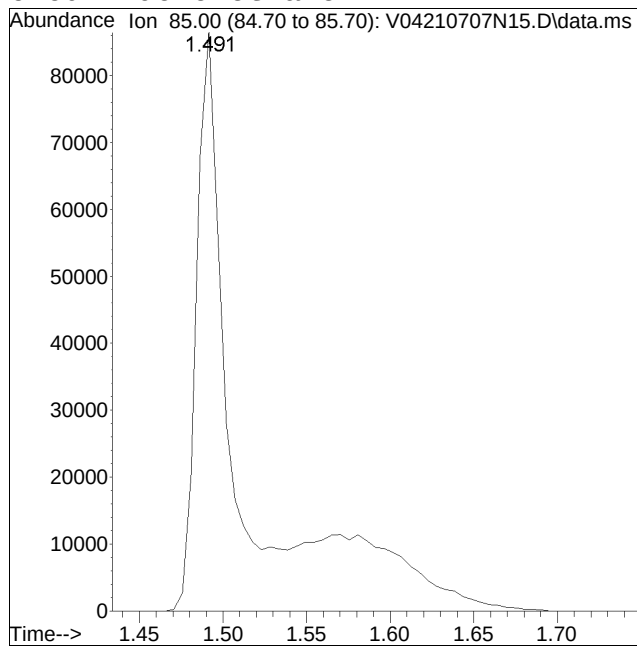
Data Path : I:\VOLATILES\V0A104\2021\2QMethod : V104_210707N_8260.m
Data File : V04210707N15.D Operator : V0A104:JC
Date Inj'd : 7/8/2021 1:57 am Instrument : SV104
Sample : C8260STD40PPB Quant Date : 7/8/2021 11:05 am

Compound #2: Dichlorodifluoromethane



Original Peak Response = 106922

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



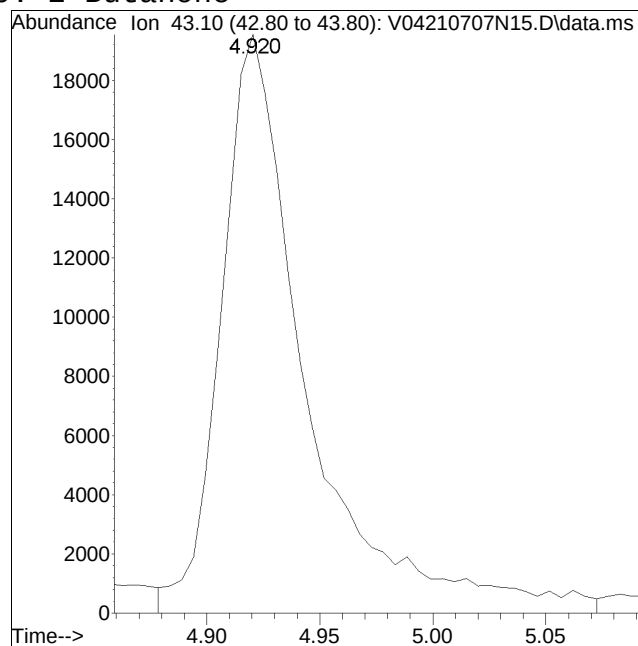
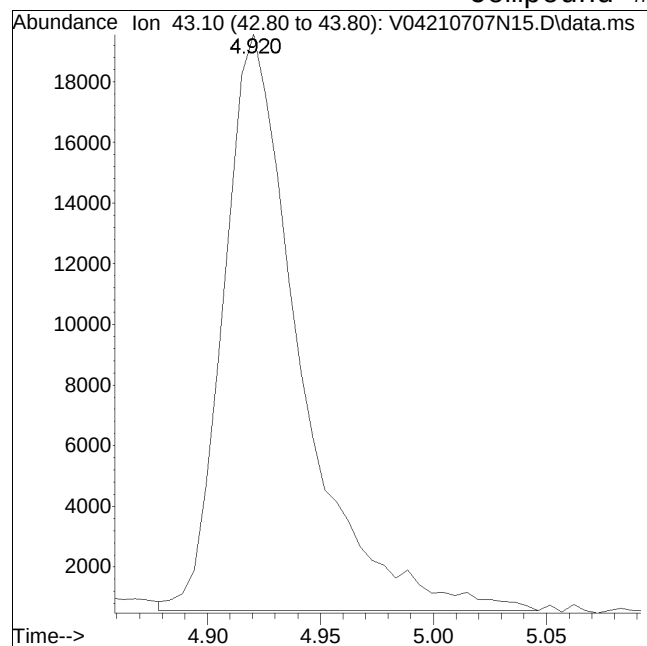
Manual Peak Response = 159672 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04210707N15.D
Date Inj'd : 7/8/2021 1:57 am
Sample : C8260STD40PPB

Method : V104_210707N_8260.m
Operator : VOA104:JC
Instrument : SV104
Quant Date : 7/8/2021 11:05 am

Compound #39: 2-Butanone



Original Peak Response = 44887

Manual Peak Response = 51555 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

V104_210707N_8260_coeff

Correlation Data Summary

Method Path: I:\VOLATILES\VOA104\2021\210707N\
 Method File: V104_210707N_8260.m
 Method Title: VOLATILES BY GC/MS
 Last Update: Thu Jul 08 11:04:08 2021
 CSV generated: Thu Jul 08 11:27:40 2021

Analyte	Curve fit Type	Coefficient of Determination	Quadratic Term	Linear Term	Constant Term
Bromomethane	Linear	0.997328	0	0.13802	0.011941
Methylene chloride	Linear	0.999146	0	0.26343	0.042796
Acetone	Linear	0.997973	0	0.054802	0.007433
2-Butanone	Linear	0.999054	0	0.101002	0.013034
1,2-Dibromoethane	Linear	0.999896	0	0.315962	-0.004182
p/m Xylene	Linear	0.997764	0	0.595708	0.023509

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Method File : V108_211004N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:31:08 2021
 Response Via : Initial Calibration

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----									
2) TP	Dichlorodifluo...	0.199	0.266	0.255	0.252	0.251	0.230	0.237	0.241	9.15	
3) TP	Chloromethane	0.283	0.362	0.335	0.315	0.314	0.317	0.342	0.324	7.76	
4) TC	Vinyl chloride	0.370	0.249	0.325	0.302	0.300	0.304	0.284	0.293	0.303	11.35
5) TP	Bromomethane	0.126	0.137	0.122	0.129	0.136	0.132	0.142	0.132	5.34	
6) TP	Chloroethane	0.128	0.168	0.153	0.140	0.115			0.141	14.78	
7) TP	Trichlorofluor...	0.286	0.355	0.334	0.335	0.337	0.312	0.321	0.326	6.82	
8) TP	Ethyl ether	0.068	0.079	0.087	0.090	0.094	0.091	0.094	0.086	11.05	
10) TC	1,1-Dichloroet...	0.134	0.209	0.199	0.197	0.199	0.184	0.190	0.187	13.23	
11) TP	Carbon disulfide	0.486	0.612	0.581	0.585	0.582	0.535	0.550	0.561	7.43	
12) TP	Freon-113	0.113	0.186	0.189	0.194	0.192	0.176	0.183	0.176	16.26	
13) TP	Iodomethane		0.034	0.094	0.149	0.191	0.187	0.207	*Q	0.9977	
14) TP	Acrolein		0.025	0.025	0.025	0.026	0.027	0.027	0.026#	3.84	
15) TP	Methylene chlo...	0.196	0.227	0.215	0.208	0.204	0.194	0.198	0.206	5.71	
17) TP	Acetone		0.055	0.043	0.036	0.036	0.035	0.036	0.040#	19.92	
18) TP	trans-1,2-Dich...	0.172	0.213	0.217	0.219	0.221	0.205	0.213	0.209	8.11	
19) TP	Methyl acetate	0.136	0.108	0.100	0.095	0.099	0.097	0.101	0.105	13.49	
20) TP	Methyl tert-bu...	0.311	0.357	0.407	0.429	0.446	0.440	0.454	0.406	13.10	
21) TP	tert-Butyl alc...	0.007	0.010	0.011	0.012	0.012	0.012	0.012	0.011#	16.37	
22) TP	Diisopropyl ether	0.769	0.861	0.945	0.998	1.011	0.962	0.995	0.934	9.51	
23) TP	1,1-Dichloroet...	0.416	0.505	0.501	0.498	0.489	0.457	0.476	0.477	6.68	
24) TP	Halothane	0.132	0.180	0.182	0.190	0.194	0.180	0.188	0.178	11.76	
25) TP	Acrylonitrile	0.034	0.067	0.064	0.061	0.062	0.061	0.064	0.059	19.15	
26) TP	Ethyl tert-but...	0.521	0.578	0.665	0.729	0.760	0.748	0.779	0.683	14.55	
27) TP	Vinyl acetate	0.341	0.382	0.454	0.514	0.542	0.545	0.567	0.478	18.37	
28) TP	cis-1,2-Dichlo...	0.209	0.265	0.264	0.264	0.271	0.259	0.271	0.257	8.49	
29) TP	2,2-Dichloropr...	0.179	0.281	0.300	0.308	0.323	0.310	0.333	0.291	17.88	
30) TP	Bromochloromet...	0.102	0.118	0.117	0.119	0.118	0.114	0.116	0.115	5.10	
31) TP	Cyclohexane	0.344	0.439	0.464	0.493	0.502	0.458	0.477	0.454	11.63	
32) TC	Chloroform	0.347	0.421	0.437	0.439	0.434	0.416	0.434	0.418	7.78	
33) TP	Ethyl acetate	0.138	0.120	0.160	0.169	0.177	0.177	0.183	0.161	14.54	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Method File : V108_211004N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:31:08 2021
 Response Via : Initial Calibration

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP Carbon tetrach...	0.149	0.234	0.263	0.286	0.307	0.296	0.320	*L	0.9983	
35)	TP Tetrahydrofuran		0.058	0.061	0.061	0.059	0.057	0.060	0.059	2.63	
36)	S Dibromofluorom...	0.277	0.288	0.286	0.275	0.270	0.269	0.266	0.270	0.275	2.93
37)	TP 1,1,1-Trichlor...		0.229	0.317	0.351	0.371	0.382	0.364	0.386	0.343	16.07
39)	TP 2-Butanone		0.059	0.063	0.062	0.074	0.075	0.074	0.076	0.069#	10.54
40)	TP 1,1-Dichloropr...		0.209	0.288	0.302	0.328	0.332	0.311	0.327	0.300	14.32
41)	TP Benzene	1.112	0.716	0.907	0.940	0.972	0.969	0.918	0.951	0.936	11.66
42)	TP tert-Amyl meth...		0.326	0.379	0.439	0.491	0.526	0.524	0.549	0.462	18.17
43)	S 1,2-Dichloroet...	0.280	0.276	0.283	0.284	0.283	0.283	0.283	0.277	0.281	1.16
44)	TP 1,2-Dichloroet...		0.260	0.302	0.313	0.315	0.317	0.305	0.313	0.303	6.62
47)	TP Methyl cyclohe...		0.226	0.341	0.350	0.380	0.393	0.365	0.378	0.347	16.30
48)	TP Trichloroethene	0.265	0.182	0.242	0.245	0.255	0.260	0.245	0.253	0.244	10.67
50)	TP Dibromomethane		0.109	0.117	0.123	0.123	0.125	0.121	0.126	0.121	4.88
51)	TC 1,2-Dichloropr...		0.198	0.242	0.257	0.271	0.276	0.265	0.274	0.255	10.89
54)	TP Bromodichlorom...		0.217	0.247	0.279	0.300	0.318	0.313	0.328	0.286	14.28
57)	TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	16.65
58)	TP cis-1,3-Dichlo...		0.210	0.232	0.293	0.330	0.360	0.355	0.372	*Q	0.9994
59)	I Chlorobenzene-d5	-----ISTD-----									
60)	S Toluene-d8	1.247	1.238	1.255	1.272	1.282	1.272	1.316	1.296	1.272	2.03
61)	TC Toluene	0.992	0.624	0.748	0.796	0.802	0.792	0.786	0.790	0.791	12.68
62)	TP 4-Methyl-2-pen...			0.058	0.070	0.073	0.079	0.079	0.081	0.073#	11.78
63)	TP Tetrachloroethene		0.209	0.309	0.330	0.338	0.340	0.335	0.336	0.314	15.10
65)	TP trans-1,3-Dich...		0.159	0.238	0.294	0.344	0.375	0.393	0.399	*Q	0.9992
67)	TP Ethyl methacry...		0.115	0.147	0.205	0.238	0.257	0.267		*Q	0.9994
68)	TP 1,1,2-Trichlor...		0.138	0.158	0.176	0.185	0.186	0.190	0.188	0.174	11.10
69)	TP Chlorodibromom...		0.140	0.194	0.229	0.260	0.275	0.288	0.294	*Q	0.9996
70)	TP 1,3-Dichloropr...		0.289	0.329	0.375	0.394	0.389	0.394	0.390	0.366	11.20
71)	TP 1,2-Dibromoethane		0.135	0.161	0.203	0.219	0.219	0.223	0.223	0.198	17.90
72)	TP 2-Hexanone			0.104	0.122	0.131	0.136	0.140	0.140	0.129	10.86
73)	TP Chlorobenzene		0.706	0.858	0.879	0.883	0.865	0.860	0.852	0.843	7.30
74)	TC Ethylbenzene	1.589	1.070	1.405	1.522	1.563	1.516	1.470	1.432	1.446	11.35

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Method File : V108_211004N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:31:08 2021
 Response Via : Initial Calibration

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
 L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
75) TP	1,1,1,2-Tetrac...	0.148	0.201	0.246	0.279	0.295	0.302	0.307	*Q	0.9996	
76) TP	p/m Xylene	0.587	0.411	0.522	0.584	0.592	0.571	0.554	0.538	0.545	10.89
77) TP	o Xylene	0.566	0.374	0.515	0.555	0.562	0.544	0.528	0.514	0.520	11.96
78) TP	Styrene	0.725	0.564	0.789	0.914	0.936	0.895	0.871	0.786	0.810	15.23
79) I	1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP	Bromoform	0.138	0.181	0.209	0.242	0.264	0.278	0.268	*Q	0.9984	
82) TP	Isopropylbenzene	1.851	2.606	2.731	2.853	2.823	2.727	2.566	2.594	13.26	
83) S	4-Bromofluorob...	0.905	0.899	0.932	0.926	0.914	0.931	0.927	0.901	0.917	1.51
84) TP	Bromobenzene	0.543	0.658	0.675	0.678	0.670	0.666	0.636	0.647	7.38	
85) TP	n-Propylbenzene	2.369	3.109	3.283	3.390	3.416	3.237	2.890	3.099	11.89	
86) TP	1,4-Dichlorobu...	0.659	0.821	0.841	0.840	0.844	0.842	0.797	0.806	8.33	
87) TP	1,1,2,2-Tetrac...	0.377	0.405	0.423	0.436	0.435	0.446	0.426	0.421	5.54	
88) TP	4-Ethyltoluene	1.838	2.440	2.580	2.688	2.734	2.655	2.510	2.492	12.28	
89) TP	2-Chlorotoluene	1.756	2.265	2.304	2.327	2.333	2.270	2.140	2.199	9.37	
90) TP	1,3,5-Trimethy...	1.628	2.206	2.286	2.329	2.365	2.317	2.229	2.194	11.66	
91) TP	1,2,3-Trichlor...	0.333	0.365	0.347	0.357	0.356	0.361	0.346	0.352	3.08	
92) TP	trans-1,4-Dich...		0.118	0.130	0.142	0.153	0.158	0.155	0.143	11.16	
93) TP	4-Chlorotoluene	1.666	1.963	2.046	2.106	2.133	2.080	1.999	1.999	7.92	
94) TP	tert-Butylbenzene	1.435	1.948	2.016	2.099	2.110	2.041	1.963	1.944	11.97	
97) TP	1,2,4-Trimethy...	1.548	2.132	2.241	2.303	2.350	2.299	2.223	2.157	12.87	
98) TP	sec-Butylbenzene	1.996	2.785	2.927	3.016	3.024	2.918	2.753	2.774	12.92	
99) TP	p-Isopropyltol...	1.572	2.337	2.502	2.630	2.690	2.604	2.495	2.404	16.00	
100) TP	1,3-Dichlorobe...	1.028	1.340	1.325	1.333	1.327	1.304	1.286	1.278	8.74	
101) TP	1,4-Dichlorobe...	1.103	1.397	1.322	1.333	1.322	1.315	1.283	1.296	7.09	
102) TP	p-Diethylbenzene	0.978	1.336	1.481	1.540	1.583	1.569	1.532	1.431	15.13	
103) TP	n-Butylbenzene	1.496	2.153	2.269	2.302	2.333	2.276	2.187	2.145	13.67	
104) TP	1,2-Dichlorobe...	1.033	1.167	1.217	1.218	1.208	1.214	1.179	1.176	5.65	
105) TP	1,2,4,5-Tetram...		1.905	2.311	2.519	2.599	2.588	2.408	2.388	10.93	
106) TP	1,2-Dibromo-3-...	0.032	0.046	0.050	0.056	0.065	0.071	0.071	*Q	0.9983	
107) TP	1,3,5-Trichlor...	0.766	0.908	0.968	0.970	0.994	0.996	0.945	0.935	8.61	
108) TP	Hexachlorobuta...	0.287	0.388	0.400	0.416	0.431	0.431	0.417	0.396	12.73	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2021\211004NICAL\
Method File : V108_211004N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 06 10:31:08 2021
Response Via : Initial Calibration

Calibration Files

L11 =V08211004N04.d L1 =V08211004N06.d L2 =V08211004N08.d L3 =V08211004N09.d L4 =V08211004N10.d
L6 =V08211004N11.d L8 =V08211004N12.d L10 =V08211004N13.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
109) TP 1,2,4-Trichlor...	0.592	0.737	0.807	0.852	0.886	0.894	0.847	0.802	13.30	
110) TP Naphthalene	0.981	1.184	1.399	1.546	1.607	1.645	1.551	1.416	17.47	
111) TP 1,2,3-Trichlor...	0.549	0.670	0.686	0.720	0.738	0.750	0.713	0.689	9.85	

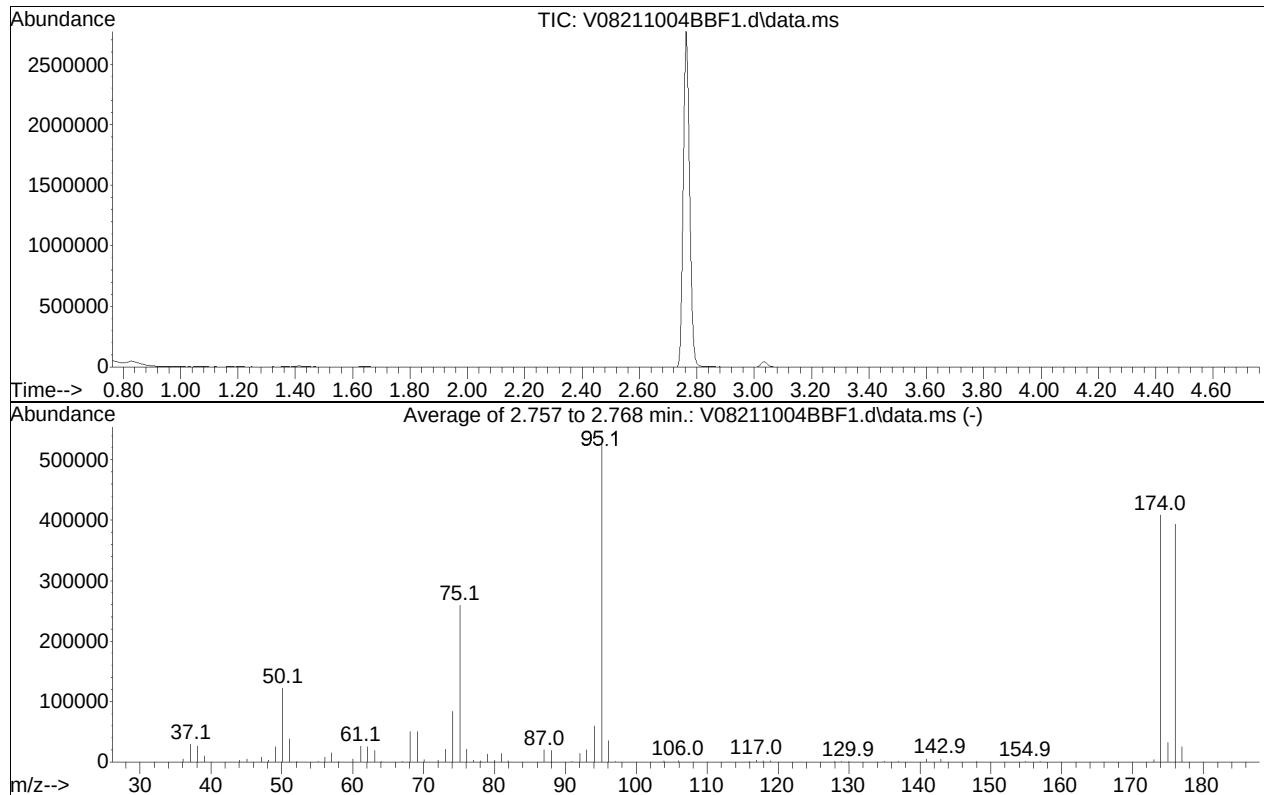
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004BBF1.d
 Acq On : 4 Oct 2021 11:42 pm
 Operator : VOA108:PD
 Sample : WG1554783-1
 Misc : WG1554783
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Oct 05 15:29:18 2021



AutoFind: Scans 414, 415, 416; Background Corrected with Scan 406

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	122096	PASS
75	95	30	60	49.1	259541	PASS
95	95	100	100	100.0	528299	PASS
96	95	5	9	6.8	35821	PASS
173	174	0.00	2	1.0	3937	PASS
174	95	50	100	77.4	408704	PASS
175	174	5	9	7.9	32157	PASS
176	174	95	101	96.2	393195	PASS
177	176	5	9	6.5	25483	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N04.d
 Acq On : 5 Oct 2021 1:04 am
 Operator : VOA108:NLK
 Sample : I8260STD.19PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 10:54:04 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.200	96	340680	10.000	ug/L	-0.01
Standard Area 1 = 364139			Recovery	=	93.56%	
59) Chlorobenzene-d5	8.310	117	278545	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	100.36%	
79) 1,4-Dichlorobenzene-d4	9.820	152	148539	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	99.03%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	94538	10.082	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.82%	
43) 1,2-Dichloroethane-d4	4.844	65	95406	9.967	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.67%	
60) Toluene-d8	6.941	98	347317	9.802	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.02%	
83) 4-Bromofluorobenzene	9.149	95	134485	9.874	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.74%	
Target Compounds						
						Qvalue
4) Vinyl chloride	1.043	62	2393	0.232	ug/L	92
34) Carbon tetrachloride	4.042	117	1344	0.501	ug/L #	80
41) Benzene	4.660	78	7199	0.226	ug/L #	84
48) Trichloroethene	5.410	95	1715	0.207	ug/L #	84
58) cis-1,3-Dichloropropene	6.784	75	1550	0.440	ug/L #	74
61) Toluene	6.999	92	5251	0.238	ug/L	91
65) trans-1,3-Dichloropropene	7.465	75	756	0.478	ug/L #	63
74) Ethylbenzene	8.367	91	8409	0.209	ug/L	94
76) p/m Xylene	8.477	106	6209	0.409	ug/L	97
77) o Xylene	8.766	106	5991	0.414	ug/L	98
78) Styrene	8.808	104	7675	0.340	ug/L	89

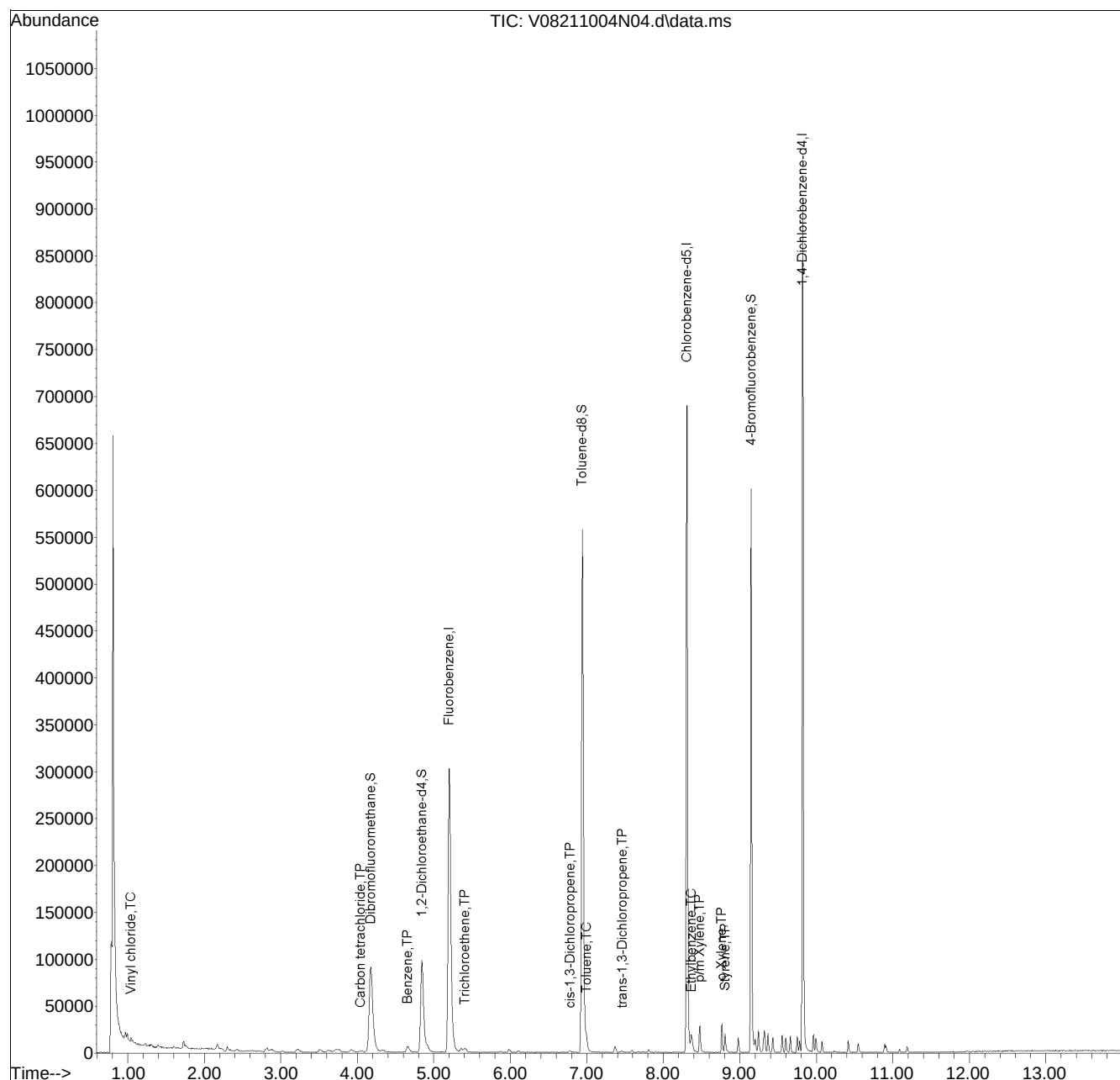
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N04.d
 Acq On : 5 Oct 2021 1:04 am
 Operator : VOA108:NLK
 Sample : I8260STD.19PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 06 10:54:04 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N04.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 1:04 am	Instrument	: VOA 108
Sample	: I8260STD.19PPB	Quant Date	: 10/6/2021 10:53 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N06.d
 Acq On : 5 Oct 2021 1:44 am
 Operator : VOA108:NLK
 Sample : I8260STD.5PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 10:54:52 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:54:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	328243	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	90.14%	
59) Chlorobenzene-d5	8.310	117	270439	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	97.44%	
79) 1,4-Dichlorobenzene-d4	9.825	152	144656	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	96.44%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	94556	10.466	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.66%	
43) 1,2-Dichloroethane-d4	4.844	65	90433	9.805	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.05%	
60) Toluene-d8	6.947	98	334722	9.730	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.30%	
83) 4-Bromofluorobenzene	9.149	95	130068	9.806	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.06%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	3272	0.413	ug/L	90
3) Chloromethane	0.996	50	4645	0.437	ug/L	97
4) Vinyl chloride	1.043	62	4093	0.411	ug/L	99
5) Bromomethane	1.232	94	2068	0.477	ug/L	85
6) Chloroethane	1.310	64	2102	0.455	ug/L	89
7) Trichlorofluoromethane	1.394	101	4689	0.439	ug/L #	78
8) Ethyl ether	1.599	74	1116	0.395	ug/L #	62
10) 1,1-Dichloroethene	1.725	96	2201	0.358	ug/L	91
11) Carbon disulfide	1.730	76	7973	0.433	ug/L	97
12) Freon-113	1.761	101	1850	0.320	ug/L	96
13) Iodomethane	1.819	142	120	2.072	ug/L #	31
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	2.170	84	3220	0.476	ug/L	98
17) Acetone	2.217	43	1954	1.482	ug/L #	44
18) trans-1,2-Dichloroethene	2.301	96	2824M1	0.412	ug/L	
19) Methyl acetate	2.348	43	2234	0.647	ug/L #	80
20) Methyl tert-butyl ether	2.422	73	5111	0.383	ug/L #	72
21) tert-Butyl alcohol	2.584	59	582	1.639	ug/L #	1
22) Diisopropyl ether	2.820	45	12614	0.411	ug/L #	92
23) 1,1-Dichloroethane	2.878	63	6823	0.435	ug/L	96
24) Halothane	3.009	117	2170	0.371	ug/L #	63

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N06.d
 Acq On : 5 Oct 2021 1:44 am
 Operator : VOA108:NLK
 Sample : I8260STD.5PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 10:54:52 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:54:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25)	Acrylonitrile	2.946	53	556	0.287	ug/L	# 70
26)	Ethyl tert-butyl ether	3.208	59	8543M1	0.381	ug/L	
27)	Vinyl acetate	3.224	43	5599	0.357	ug/L	# 81
28)	cis-1,2-Dichloroethene	3.512	96	3427	0.405	ug/L	# 80
29)	2,2-Dichloropropane	3.633	77	2935	0.308	ug/L	# 98
30)	Bromochloromethane	3.754	128	1676	0.444	ug/L	# 56
31)	Cyclohexane	3.733	56	5646M1	0.379	ug/L	
32)	Chloroform	3.916	83	5699	0.415	ug/L	# 95
33)	Ethyl acetate	4.189	43	2259	0.429	ug/L	# 73
34)	Carbon tetrachloride	4.047	117	2442M1	0.614	ug/L	
35)	Tetrahydrofuran	4.142	42	476	0.244	ug/L	# 53
37)	1,1,1-Trichloroethane	4.147	97	3765	0.335	ug/L	# 63
39)	2-Butanone	4.414	43	976	0.430	ug/L	# 66
40)	1,1-Dichloropropene	4.336	75	3434	0.349	ug/L	# 79
41)	Benzene	4.661	78	11750	0.383	ug/L	# 98
42)	tert-Amyl methyl ether	4.902	73	5348	0.353	ug/L	# 86
44)	1,2-Dichloroethane	4.928	62	4261	0.428	ug/L	# 96
47)	Methyl cyclohexane	5.363	83	3703	0.325	ug/L	# 91
48)	Trichloroethene	5.400	95	2993M1	0.374	ug/L	
50)	Dibromomethane	5.872	93	1788	0.451	ug/L	# 90
51)	1,2-Dichloropropane	5.977	63	3248	0.389	ug/L	# 87
54)	Bromodichloromethane	6.097	83	3564	0.379	ug/L	# 87
57)	1,4-Dioxane	6.333	88	3170	100.037	ug/L	# 94
58)	cis-1,3-Dichloropropene	6.779	75	3453	0.619	ug/L	# 94
61)	Toluene	6.999	92	8435	0.394	ug/L	# 98
62)	4-Methyl-2-pentanone	7.429	58	463M1	0.233	ug/L	
63)	Tetrachloroethene	7.371	166	2825	0.333	ug/L	# 92
65)	trans-1,3-Dichloropropene	7.455	75	2145	0.626	ug/L	# 76
67)	Ethyl methacrylate	7.665	69	1561	0.608	ug/L	# 82
68)	1,1,2-Trichloroethane	7.586	83	1868	0.396	ug/L	# 91
69)	Chlorodibromomethane	7.728	129	1895	0.593	ug/L	# 86
70)	1,3-Dichloropropane	7.806	76	3904	0.395	ug/L	# 92
71)	1,2-Dibromoethane	7.896	107	1822	0.341	ug/L	# 97
72)	2-Hexanone	8.174	43	917	0.263	ug/L	# 73
73)	Chlorobenzene	8.320	112	9547	0.419	ug/L	# 90
74)	Ethylbenzene	8.362	91	14469	0.370	ug/L	# 100
75)	1,1,1,2-Tetrachloroethane	8.383	131	2008	0.602	ug/L	# 58
76)	p/m Xylene	8.478	106	11126	0.755	ug/L	# 96
77)	o Xylene	8.766	106	10123	0.720	ug/L	# 96
78)	Styrene	8.808	104	15244	0.696	ug/L	# 90

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N06.d
 Acq On : 5 Oct 2021 1:44 am
 Operator : VOA108:NLK
 Sample : I8260STD.5PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 10:54:52 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:54:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	997	0.635	ug/L	89
82)	Isopropylbenzene	8.976	105	13385	0.357	ug/L	94
84)	Bromobenzene	9.201	156	3929	0.420	ug/L	98
85)	n-Propylbenzene	9.243	91	17136	0.382	ug/L	96
86)	1,4-Dichlorobutane	9.248	55	4766	0.409	ug/L	99
87)	1,1,2,2-Tetrachloroethane	9.301	83	2725	0.447	ug/L	95
88)	4-Ethyltoluene	9.311	105	13296	0.369	ug/L	97
89)	2-Chlorotoluene	9.327	91	12698	0.399	ug/L	97
90)	1,3,5-Trimethylbenzene	9.369	105	11777	0.371	ug/L	93
91)	1,2,3-Trichloropropane	9.369	75	2410	0.473	ug/L	92
92)	trans-1,4-Dichloro-2-b...	9.411	53	385M1	0.187	ug/L	
93)	4-Chlorotoluene	9.432	91	12049	0.417	ug/L	95
94)	tert-Butylbenzene	9.552	119	10380	0.369	ug/L	94
97)	1,2,4-Trimethylbenzene	9.600	105	11193	0.359	ug/L	90
98)	sec-Butylbenzene	9.657	105	14440	0.360	ug/L	98
99)	p-Isopropyltoluene	9.752	119	11367	0.327	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	7434	0.402	ug/L	96
101)	1,4-Dichlorobenzene	9.830	146	7978	0.425	ug/L #	77
102)	p-Diethylbenzene	9.961	119	7072	0.342	ug/L	93
103)	n-Butylbenzene	9.993	91	10818	0.349	ug/L	96
104)	1,2-Dichlorobenzene	10.071	146	7470	0.439	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.418	119	9326	0.270	ug/L	95
106)	1,2-Dibromo-3-chloropr...	10.528	155	234	0.615	ug/L	95
107)	1,3,5-Trichlorobenzene	10.549	180	5542	0.410	ug/L	90
108)	Hexachlorobutadiene	10.889	225	2077	0.363	ug/L	97
109)	1,2,4-Trichlorobenzene	10.910	180	4283	0.369	ug/L	96
110)	Naphthalene	11.083	128	7094	0.346	ug/L	100
111)	1,2,3-Trichlorobenzene	11.188	180	3968	0.398	ug/L	99

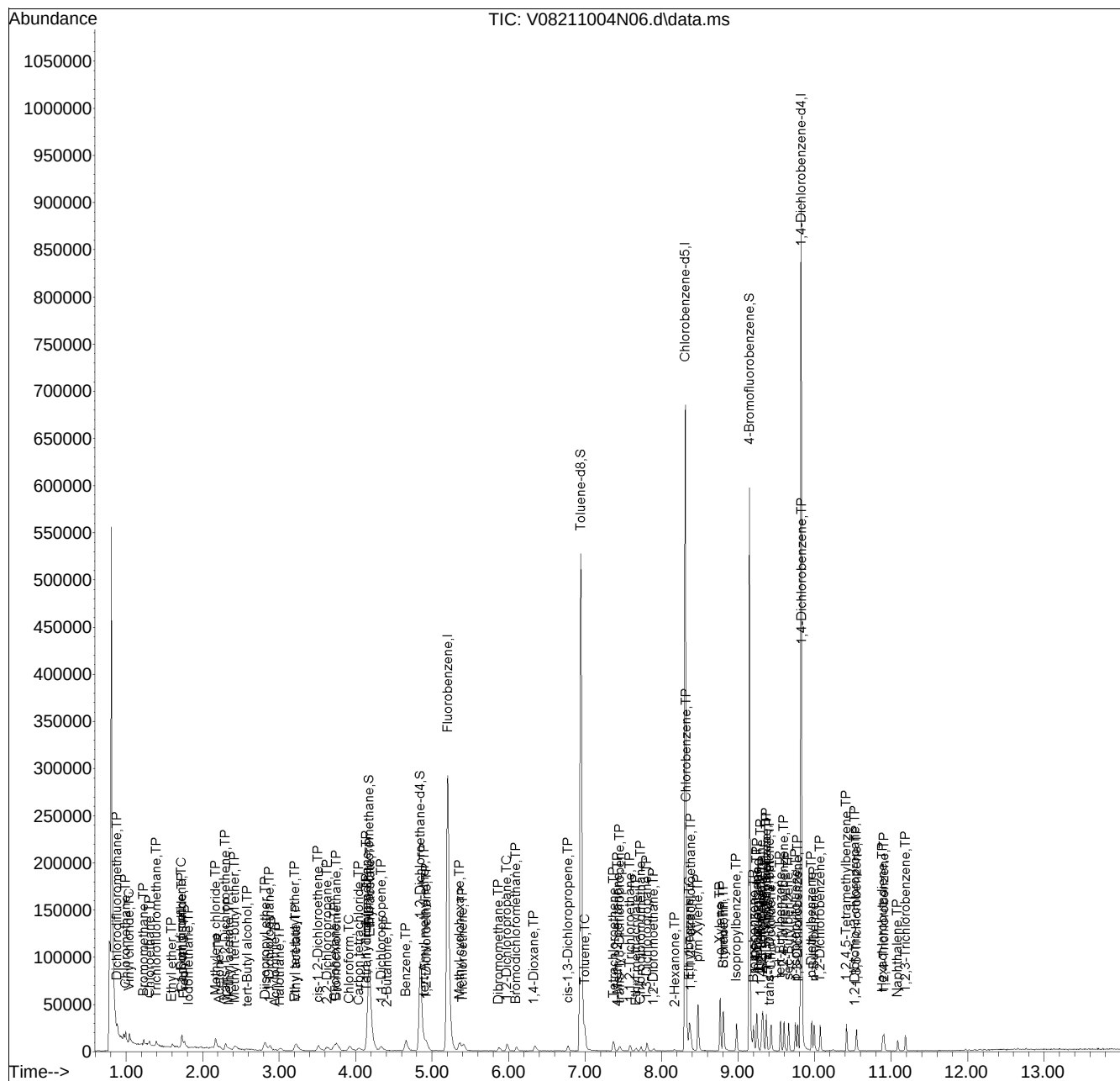
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\VOLATILES\VOA108\2021\211004NICAL\
Data File  : V08211004N06.d
Acq On     : 5 Oct 2021 1:44 am
Operator   : VOA108:NLK
Sample     : I8260STD.5PPB
Misc       : WG1554783,ICAL18339
ALS Vial   : 6 Sample Multiplier: 1
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Quant Time: Oct 06 10:54:52 2021
Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:54:38 2021
Response via : Initial Calibration

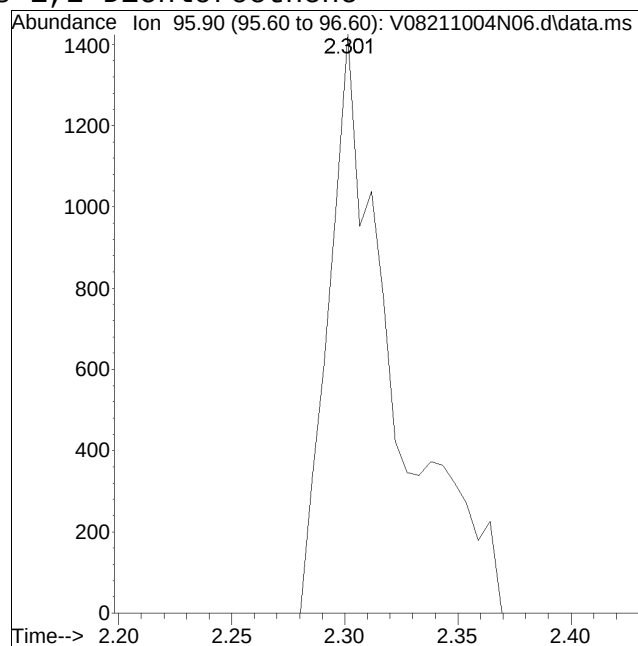
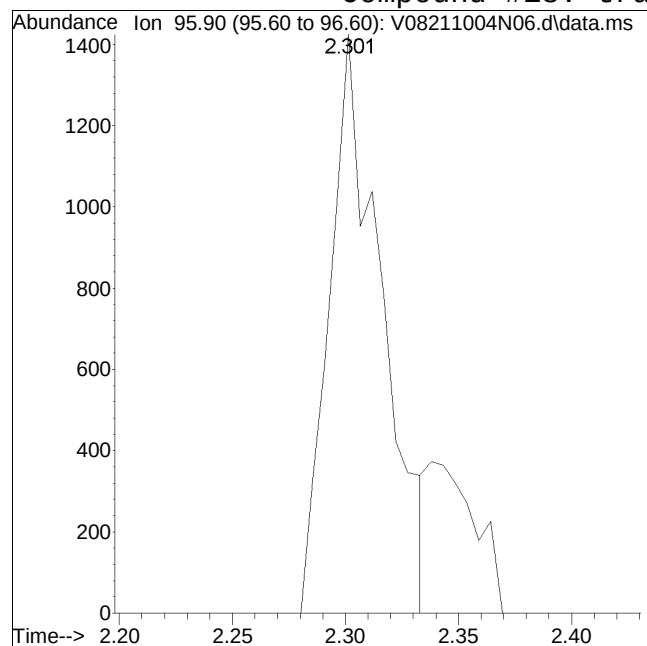
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N06.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 1:44 am Instrument : VOA 108
Sample : I8260STD.5PPB Quant Date : 10/6/2021 10:54 am

Compound #18: trans-1,2-Dichloroethene



Original Peak Response = 2278

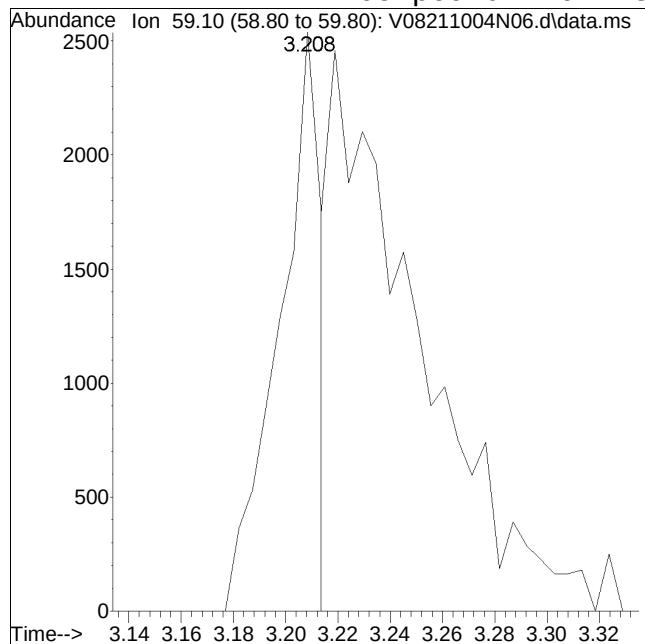
Manual Peak Response = 2824 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

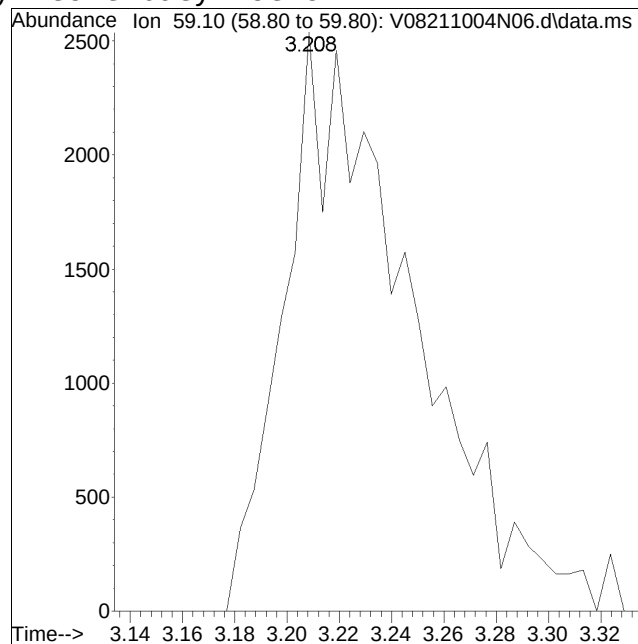
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N06.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 1:44 am Instrument : VOA 108
Sample : I8260STD.5PPB Quant Date : 10/6/2021 10:54 am

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 2816

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

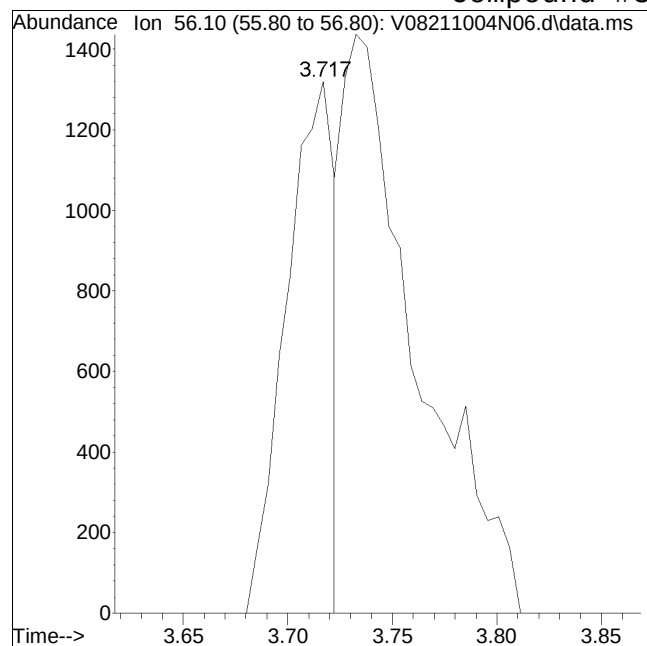


Manual Peak Response = 8543 M1

Manual Integration Report

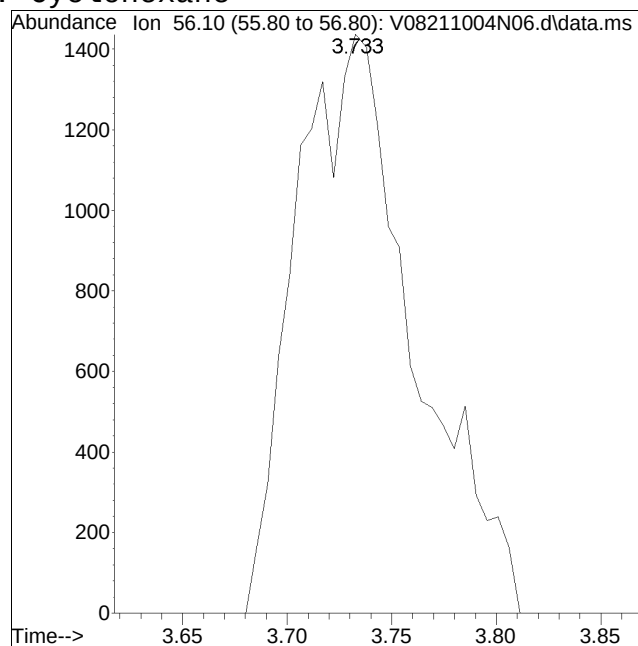
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N06.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 1:44 am Instrument : VOA 108
Sample : I8260STD.5PPB Quant Date : 10/6/2021 10:54 am

Compound #31: Cyclohexane



Original Peak Response = 2118

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



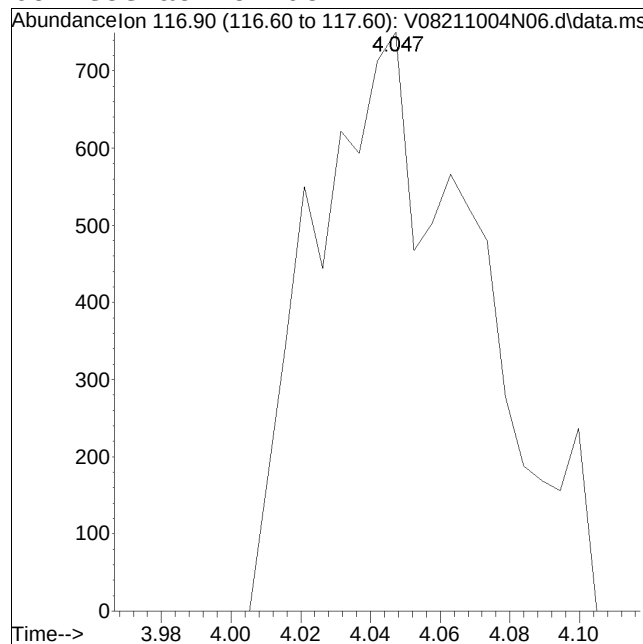
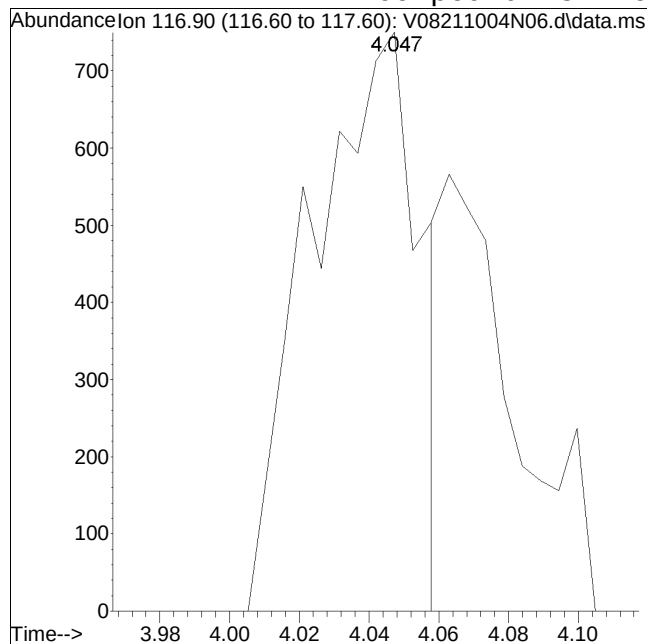
Manual Peak Response = 5646 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20
Data File : V08211004N06.d
Date Inj'd : 10/5/2021 1:44 am
Sample : I8260STD.5PPB

Method : V108_211004N_8260.m
Operator : VOA108:NLK
Instrument : VOA 108
Quant Date : 10/6/2021 10:54 am

Compound #34: Carbon tetrachloride

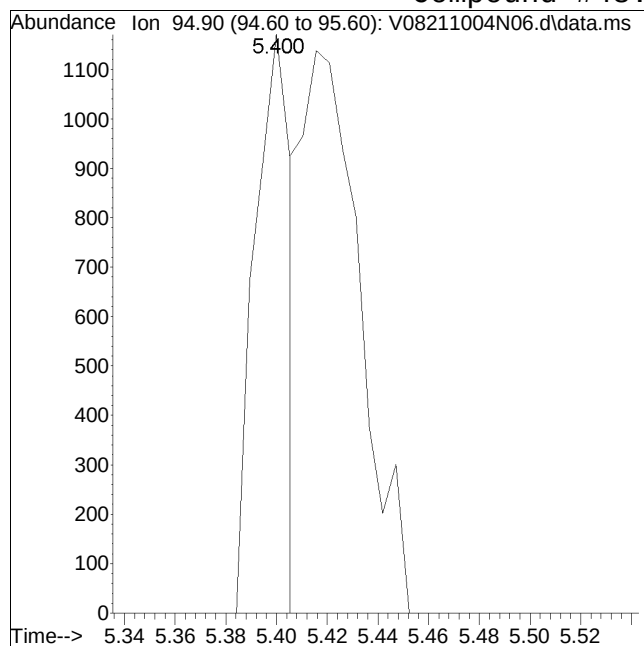


M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

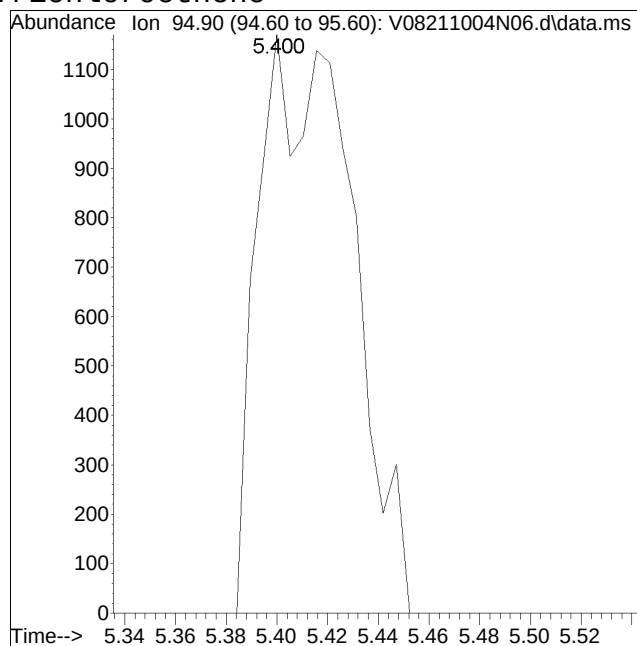
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N06.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 1:44 am Instrument : VOA 108
Sample : I8260STD.5PPB Quant Date : 10/6/2021 10:54 am

Compound #48: Trichloroethene



Original Peak Response = 1159

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



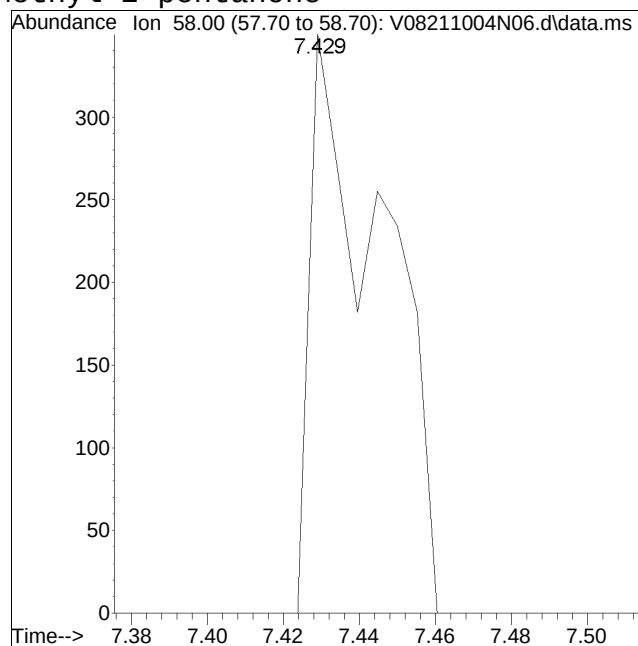
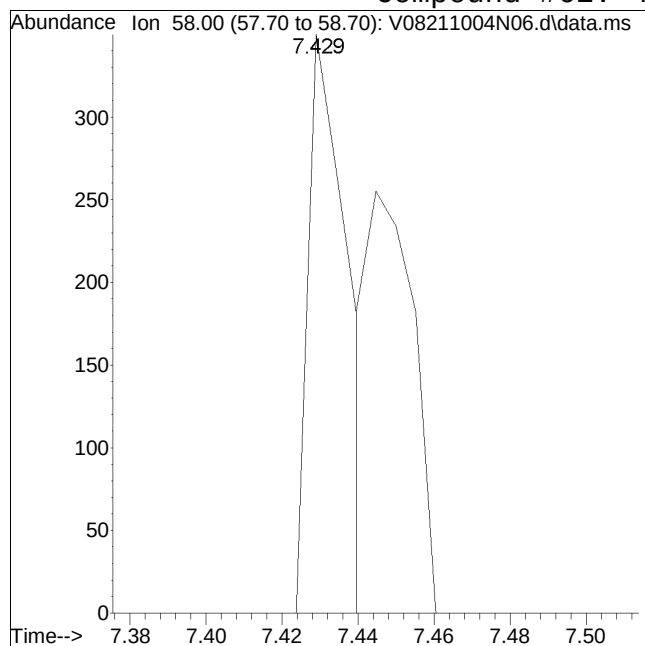
Manual Peak Response = 2993 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20
Data File : V08211004N06.d
Date Inj'd : 10/5/2021 1:44 am
Sample : I8260STD.5PPB

Method : V108_211004N_8260.m
Operator : VOA108:NLK
Instrument : VOA 108
Quant Date : 10/6/2021 10:54 am

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 252

Manual Peak Response = 463 M1

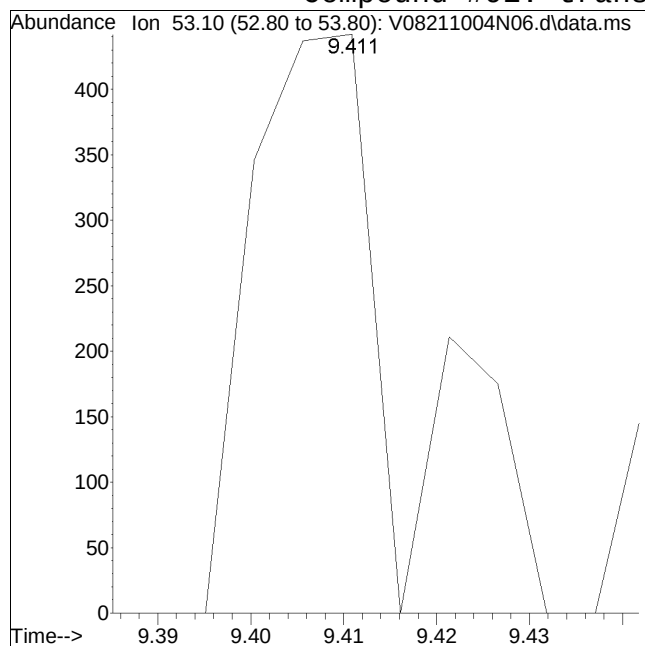
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20
Data File : V08211004N06.d
Date Inj'd : 10/5/2021 1:44 am
Sample : I8260STD.5PPB

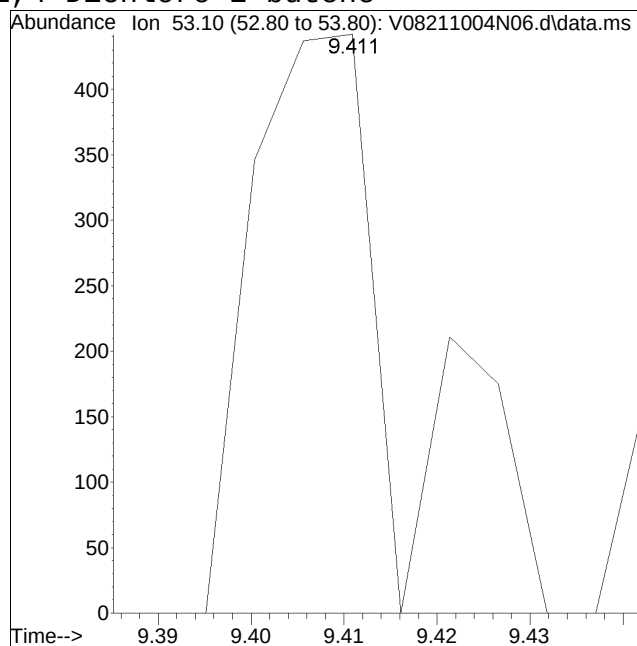
Method : V108_211004N_8260.m
Operator : VOA108:NLK
Instrument : VOA 108
Quant Date : 10/6/2021 10:54 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 507

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 385 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N08.d
 Acq On : 5 Oct 2021 2:25 am
 Operator : VOA108:NLK
 Sample : I8260STD2PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 10:28:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:29:18 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	337534	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	92.69%	
59) Chlorobenzene-d5	8.310	117	268671	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	96.80%	
79) 1,4-Dichlorobenzene-d4	9.820	152	141724	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	94.48%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.173	113	96482	10.385	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.85%	
43) 1,2-Dichloroethane-d4	4.844	65	95369	10.056	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.56%	
60) Toluene-d8	6.941	98	337192	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.66%	
83) 4-Bromofluorobenzene	9.149	95	132019	10.159	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.59%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	17955	2.204	ug/L	98
3) Chloromethane	0.996	50	24465	2.237	ug/L	97
4) Vinyl chloride	1.043	62	21942	2.143	ug/L	96
5) Bromomethane	1.232	94	9277	2.083	ug/L	97
6) Chloroethane	1.305	64	11322	2.385	ug/L	98
7) Trichlorofluoromethane	1.394	101	23952	2.179	ug/L	99
8) Ethyl ether	1.609	74	5314	1.831	ug/L	87
10) 1,1-Dichloroethene	1.725	96	14137	2.234	ug/L	# 74
11) Carbon disulfide	1.735	76	41302	2.179	ug/L	97
12) Freon-113	1.767	101	12582	2.115	ug/L	98
13) Iodomethane	1.819	142	2323	2.468	ug/L	88
14) Acrolein	1.976	56	1677	1.924	ug/L	# 80
15) Methylene chloride	2.170	84	15307	2.203	ug/L	99
17) Acetone	2.223	43	3741M4	2.759	ug/L	
18) trans-1,2-Dichloroethene	2.301	96	14357	2.038	ug/L	90
19) Methyl acetate	2.343	43	7268	2.047	ug/L	# 88
20) Methyl tert-butyl ether	2.422	73	24076	1.756	ug/L	# 88
21) tert-Butyl alcohol	2.574	59	3401	9.317	ug/L	# 79
22) Diisopropyl ether	2.815	45	58092	1.842	ug/L	97
23) 1,1-Dichloroethane	2.883	63	34119	2.117	ug/L	99
24) Halothane	3.009	117	12131	2.018	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N08.d
 Acq On : 5 Oct 2021 2:25 am
 Operator : VOA108:NLK
 Sample : I8260STD2PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 10:28:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:29:18 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25)	Acrylonitrile	2.946	53	4536M1	2.278	ug/L	
26)	Ethyl tert-butyl ether	3.219	59	39025	1.693	ug/L	94
27)	Vinyl acetate	3.224	43	25807	1.600	ug/L #	92
28)	cis-1,2-Dichloroethene	3.502	96	17901	2.060	ug/L #	77
29)	2,2-Dichloropropane	3.633	77	18973	1.935	ug/L #	75
30)	Bromochloromethane	3.769	128	7956	2.049	ug/L	79
31)	Cyclohexane	3.733	56	29638	1.935	ug/L	94
32)	Chloroform	3.927	83	28437	2.014	ug/L #	94
33)	Ethyl acetate	4.189	43	8115	1.497	ug/L #	87
34)	Carbon tetrachloride	4.052	117	15808	1.891	ug/L	96
35)	Tetrahydrofuran	4.147	42	3922M1	1.954	ug/L	
37)	1,1,1-Trichloroethane	4.142	97	21371M1	1.848	ug/L	
39)	2-Butanone	4.404	43	4263	1.826	ug/L	98
40)	1,1-Dichloropropene	4.330	75	19462	1.924	ug/L	94
41)	Benzene	4.655	78	61199	1.938	ug/L	97
42)	tert-Amyl methyl ether	4.912	73	25571	1.640	ug/L	87
44)	1,2-Dichloroethane	4.933	62	20391	1.991	ug/L	98
47)	Methyl cyclohexane	5.358	83	22994	1.960	ug/L	92
48)	Trichloroethene	5.410	95	16357	1.990	ug/L	96
50)	Dibromomethane	5.877	93	7929	1.946	ug/L	95
51)	1,2-Dichloropropane	5.977	63	16305	1.898	ug/L #	90
54)	Bromodichloromethane	6.097	83	16692	1.728	ug/L	98
57)	1,4-Dioxane	6.333	88	12175	373.636	ug/L	96
58)	cis-1,3-Dichloropropene	6.774	75	15651	1.459	ug/L	89
61)	Toluene	6.994	92	40192	1.891	ug/L	95
62)	4-Methyl-2-pentanone	7.429	58	3115	1.581	ug/L #	77
63)	Tetrachloroethene	7.366	166	16597	1.969	ug/L	90
65)	trans-1,3-Dichloropropene	7.450	75	12773	1.752	ug/L	93
67)	Ethyl methacrylate	7.654	69	7896	1.655	ug/L	98
68)	1,1,2-Trichloroethane	7.581	83	8489	1.812	ug/L	91
69)	Chlorodibromomethane	7.733	129	10437	1.812	ug/L	94
70)	1,3-Dichloropropane	7.806	76	17703	1.801	ug/L	100
71)	1,2-Dibromoethane	7.885	107	8676	1.633	ug/L	92
72)	2-Hexanone	8.158	43	5590	1.615	ug/L #	84
73)	Chlorobenzene	8.320	112	46094	2.035	ug/L	93
74)	Ethylbenzene	8.362	91	75474	1.943	ug/L	100
75)	1,1,1,2-Tetrachloroethane	8.383	131	10806	1.768	ug/L	89
76)	p/m Xylene	8.472	106	56088	3.832	ug/L	99
77)	o Xylene	8.766	106	55322	3.962	ug/L	94
78)	Styrene	8.803	104	84757	3.895	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N08.d
 Acq On : 5 Oct 2021 2:25 am
 Operator : VOA108:NLK
 Sample : I8260STD2PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 10:28:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:29:18 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	5133	1.781	ug/L	90
82)	Isopropylbenzene	8.976	105	73878	2.010	ug/L	96
84)	Bromobenzene	9.201	156	18662	2.036	ug/L	99
85)	n-Propylbenzene	9.243	91	88113	2.006	ug/L	99
86)	1,4-Dichlorobutane	9.248	55	23262	2.036	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	11482	1.924	ug/L	95
88)	4-Ethyltoluene	9.311	105	69169	1.958	ug/L	95
89)	2-Chlorotoluene	9.322	91	64203	2.060	ug/L	97
90)	1,3,5-Trimethylbenzene	9.369	105	62526	2.010	ug/L	91
91)	1,2,3-Trichloropropane	9.364	75	10357	2.075	ug/L	93
92)	trans-1,4-Dichloro-2-b...	9.400	53	3349	1.656	ug/L #	61
93)	4-Chlorotoluene	9.427	91	55630	1.964	ug/L	92
94)	tert-Butylbenzene	9.552	119	55226	2.004	ug/L	98
97)	1,2,4-Trimethylbenzene	9.600	105	60425	1.977	ug/L	90
98)	sec-Butylbenzene	9.657	105	78943	2.008	ug/L	98
99)	p-Isopropyltoluene	9.746	119	66253	1.944	ug/L	97
100)	1,3-Dichlorobenzene	9.778	146	37972	2.097	ug/L	99
101)	1,4-Dichlorobenzene	9.830	146	39608	2.156	ug/L	99
102)	p-Diethylbenzene	9.961	119	37856	1.866	ug/L	92
103)	n-Butylbenzene	9.993	91	61031	2.007	ug/L	99
104)	1,2-Dichlorobenzene	10.071	146	33088	1.984	ug/L	97
105)	1,2,4,5-Tetramethylben...	10.418	119	54011	1.596	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.528	155	1294	1.873	ug/L	84
107)	1,3,5-Trichlorobenzene	10.543	180	25732	1.941	ug/L	95
108)	Hexachlorobutadiene	10.889	225	10994	1.960	ug/L	94
109)	1,2,4-Trichlorobenzene	10.905	180	20879	1.837	ug/L	99
110)	Naphthalene	11.083	128	33569	1.673	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	18997	1.945	ug/L	94

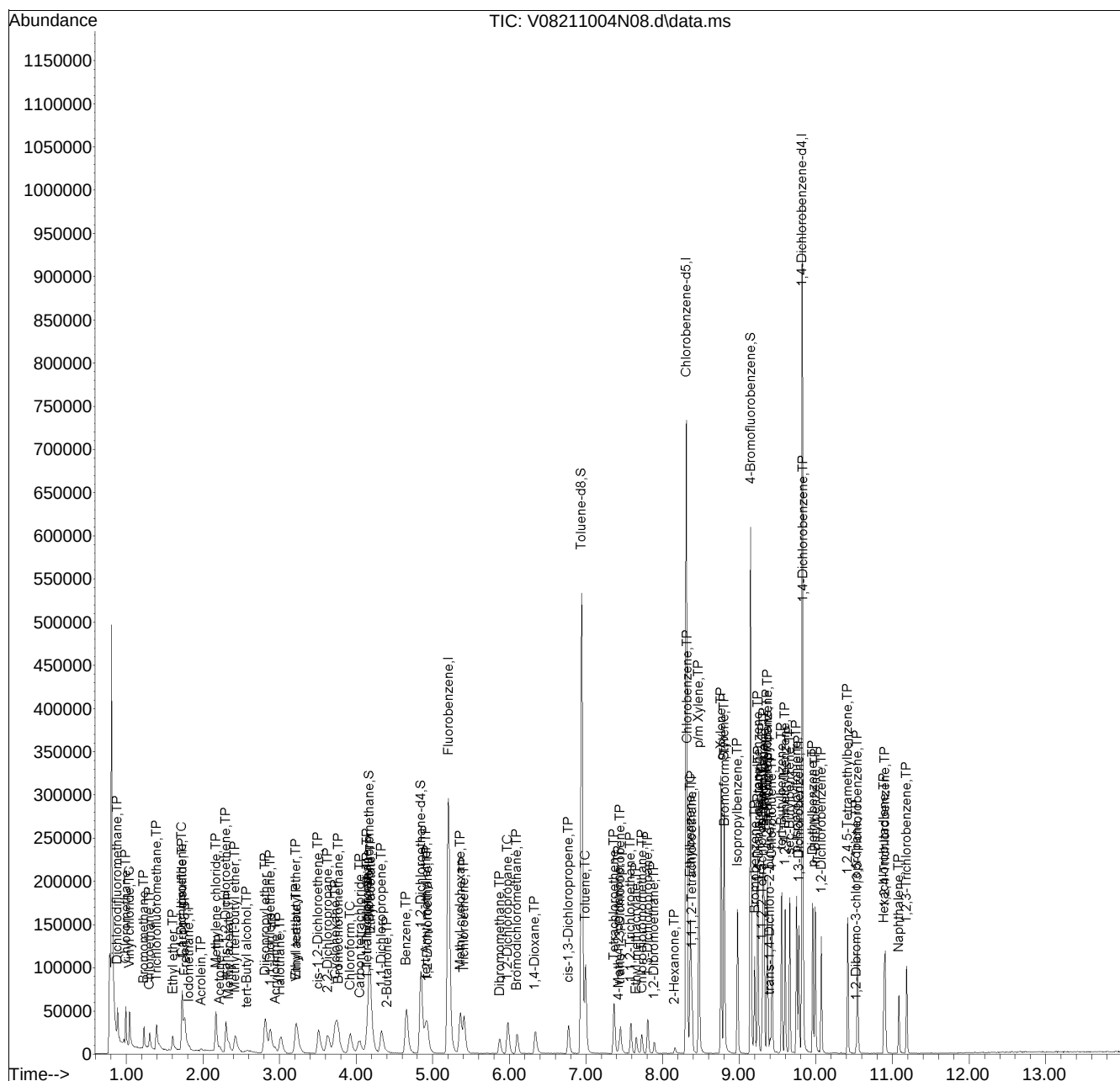
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\VOLATILES\VOA108\2021\211004NICAL\
Data File  : V08211004N08.d
Acq On     : 5 Oct 2021 2:25 am
Operator   : VOA108:NLK
Sample     : I8260STD2PPB
Misc       : WG1554783,ICAL18339
ALS Vial   : 8 Sample Multiplier: 1
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Quant Time: Oct 06 10:28:12 2021
Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 05 15:29:18 2021
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•

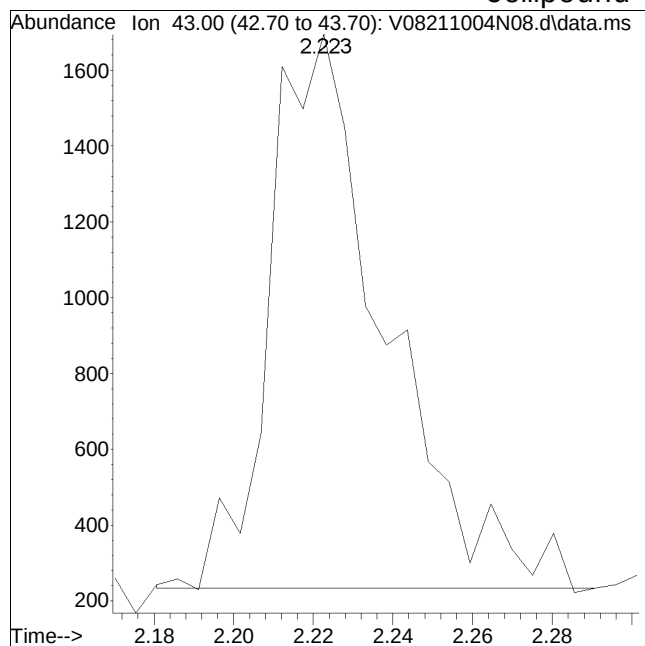


Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20
Data File : V08211004N08.d
Date Inj'd : 10/5/2021 2:25 am
Sample : I8260STD2PPB

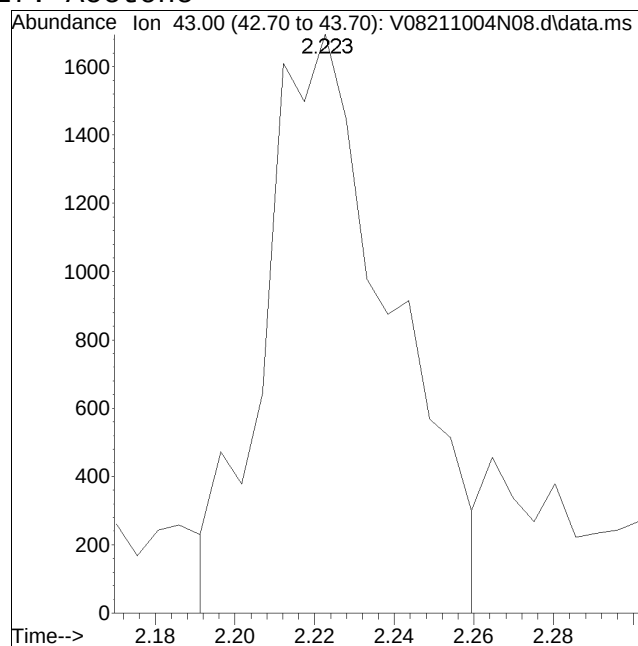
Method : V108_211004N_8260.m
Operator : VOA108:NLK
Instrument : VOA 108
Quant Date : 10/6/2021 10:28 am

Compound #17: Acetone



Original Peak Response = 2946

M4 = Poor automated baseline construction.

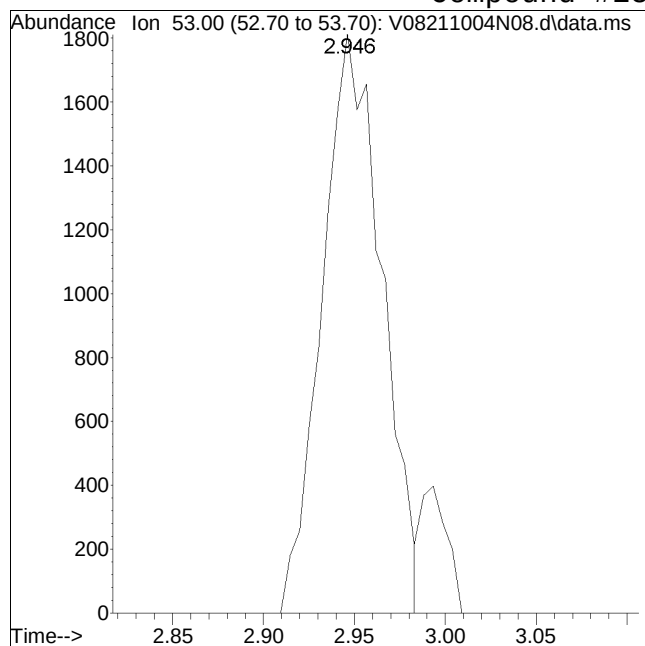


Manual Peak Response = 3741 M4

Manual Integration Report

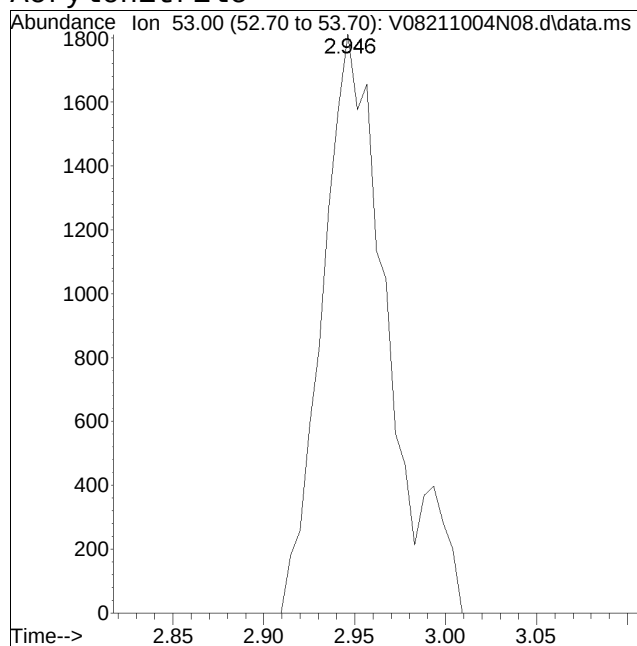
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N08.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 2:25 am Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 10/6/2021 10:28 am

Compound #25: Acrylonitrile



Original Peak Response = 4144

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

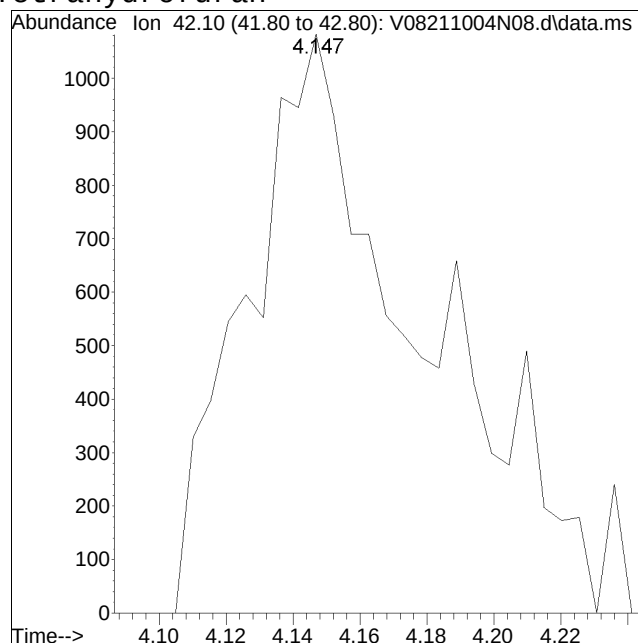
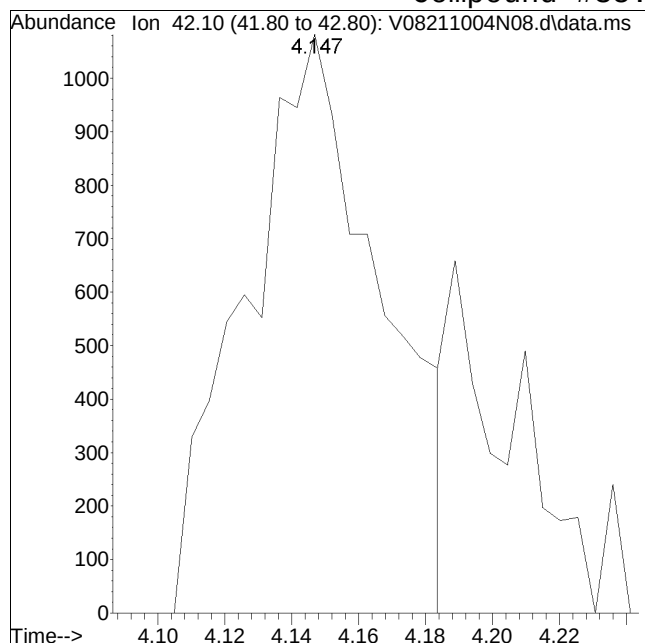


Manual Peak Response = 4536 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N08.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 2:25 am Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 10/6/2021 10:28 am

Compound #35: Tetrahydrofuran



Original Peak Response = 3072

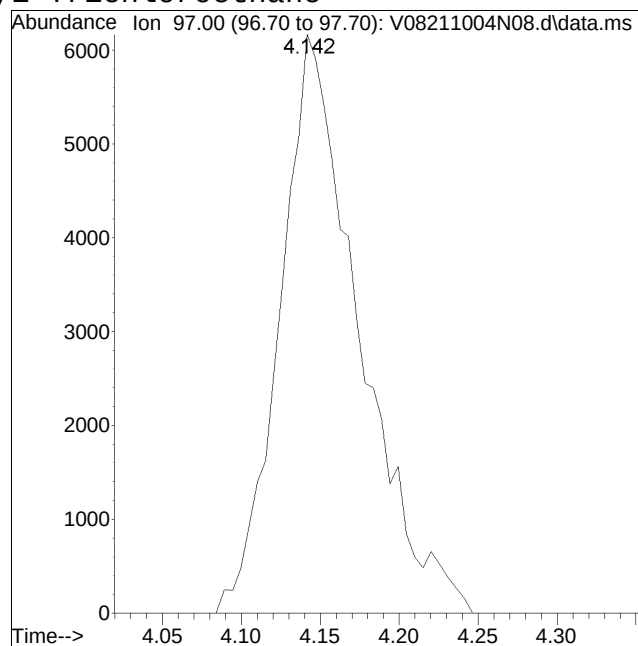
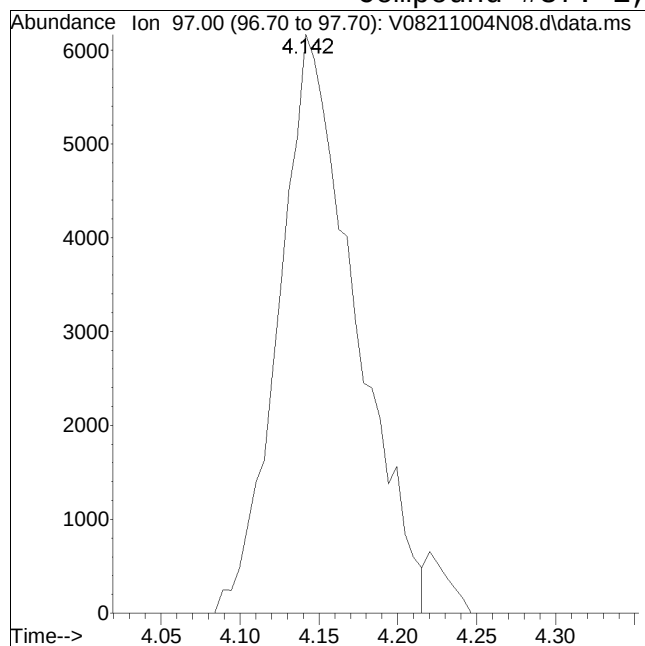
Manual Peak Response = 3922 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211004N08.d Operator : VOA108:NLK
Date Inj'd : 10/5/2021 2:25 am Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 10/6/2021 10:28 am

Compound #37: 1,1,1-Trichloroethane



Original Peak Response = 20749

Manual Peak Response = 21371 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N09.d
 Acq On : 5 Oct 2021 2:45 am
 Operator : VOA108:NLK
 Sample : I8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 15:02:01 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 28 19:43:29 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	364139	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.310	117	277541	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	9.820	152	149999	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	100018	9.919	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.19%	
43) 1,2-Dichloroethane-d4	4.844	65	103584	9.219	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.19%	
60) Toluene-d8	6.941	98	352935	9.893	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.93%	
83) 4-Bromofluorobenzene	9.149	95	138939	10.060	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.60%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	93028	25.117	ug/L	99
3) Chloromethane	0.996	50	121896	14.911	ug/L	97
4) Vinyl chloride	1.043	62	109911	13.070	ug/L	98
5) Bromomethane	1.232	94	44264	9.747	ug/L	100
6) Chloroethane	1.305	64	55756	14.598	ug/L	99
7) Trichlorofluoromethane	1.394	101	121661	11.796	ug/L	97
8) Ethyl ether	1.604	74	31505	7.450	ug/L	92
10) 1,1-Dichloroethene	1.724	96	72558	10.697	ug/L	77
11) Carbon disulfide	1.735	76	211568	10.607	ug/L	97
12) Freon-113	1.761	101	68734	10.629	ug/L	97
13) Iodomethane	1.819	142	34334	No Calib		
14) Acrolein	1.976	56	9250	25.391	ug/L	94
15) Methylene chloride	2.170	84	78162	9.402	ug/L	96
17) Acetone	2.223	43	15590	5.087	ug/L	96
18) trans-1,2-Dichloroethene	2.301	96	78997	10.353	ug/L	86
19) Methyl acetate	2.343	43	36513	6.697	ug/L #	93
20) Methyl tert-butyl ether	2.422	73	148037	7.410	ug/L	94
21) tert-Butyl alcohol	2.579	59	20622	33.922	ug/L #	68
22) Diisopropyl ether	2.810	45	343982	8.980	ug/L	97
23) 1,1-Dichloroethane	2.878	63	182262	10.232	ug/L	99
24) Halothane	3.019	117	66275	10.030	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N09.d
 Acq On : 5 Oct 2021 2:45 am
 Operator : VOA108:NLK
 Sample : I8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 15:02:01 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 28 19:43:29 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	2.951	53	23477	9.200	ug/L	94
26) Ethyl tert-butyl ether	3.219	59	242228	8.392	ug/L	93
27) Vinyl acetate	3.219	43	165188	10.901	ug/L	100
28) cis-1,2-Dichloroethene	3.512	96	96154	9.788	ug/L #	80
29) 2,2-Dichloropropane	3.628	77	109094	10.587	ug/L #	77
30) Bromochloromethane	3.764	128	42783	9.303	ug/L	79
31) Cyclohexane	3.727	56	168824	10.268	ug/L	90
32) Chloroform	3.921	83	159135	9.877	ug/L	98
33) Ethyl acetate	4.189	43	58320	7.354	ug/L #	95
34) Carbon tetrachloride	4.047	117	95640	9.740	ug/L	98
35) Tetrahydrofuran	4.141	42	22075	7.494	ug/L	96
37) 1,1,1-Trichloroethane	4.141	97	127684	9.950	ug/L #	97
39) 2-Butanone	4.388	43	22530	5.275	ug/L	97
40) 1,1-Dichloropropene	4.330	75	110115	9.859	ug/L	96
41) Benzene	4.655	78	342422	10.102	ug/L	98
42) tert-Amyl methyl ether	4.902	73	159971	7.695	ug/L	90
44) 1,2-Dichloroethane	4.928	62	114047	8.933	ug/L	99
47) Methyl cyclohexane	5.363	83	127619	9.965	ug/L	97
48) Trichloroethene	5.405	95	89169	9.484	ug/L	96
50) Dibromomethane	5.872	93	44792	8.896	ug/L	95
51) 1,2-Dichloropropane	5.982	63	93420	9.242	ug/L	95
54) Bromodichloromethane	6.102	83	101686	8.986	ug/L	97
57) 1,4-Dioxane	6.333	88	16412	282.981	ug/L	99
58) cis-1,3-Dichloropropene	6.768	75	106622	8.366	ug/L	95
61) Toluene	6.994	92	220951	10.183	ug/L	95
62) 4-Methyl-2-pentanone	7.424	58	19336	7.324	ug/L	82
63) Tetrachloroethene	7.366	166	91498	10.178	ug/L	90
65) trans-1,3-Dichloropropene	7.445	75	81490	7.816	ug/L	91
67) Ethyl methacrylate	7.654	69	56787	6.771	ug/L	99
68) 1,1,2-Trichloroethane	7.586	83	48741	8.382	ug/L	94
69) Chlorodibromomethane	7.728	129	63455	8.330	ug/L	95
70) 1,3-Dichloropropane	7.806	76	104182	8.608	ug/L	100
71) 1,2-Dibromoethane	7.890	107	56401	8.366	ug/L	100
72) 2-Hexanone	8.152	43	33814	5.965	ug/L #	92
73) Chlorobenzene	8.320	112	243943	9.938	ug/L	89
74) Ethylbenzene	8.362	91	422313	10.443	ug/L	100
75) 1,1,1,2-Tetrachloroethane	8.383	131	68156	8.718	ug/L	94
76) p/m Xylene	8.472	106	323969	21.028	ug/L	98
77) o Xylene	8.761	106	308155	20.770	ug/L	94
78) Styrene	8.803	104	507335	21.442	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N09.d
 Acq On : 5 Oct 2021 2:45 am
 Operator : VOA108:NLK
 Sample : I8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 15:02:01 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Sep 28 19:43:29 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	31302	7.961	ug/L	97
82)	Isopropylbenzene	8.976	105	409605	10.384	ug/L	95
84)	Bromobenzene	9.201	156	101273	9.922	ug/L	98
85)	n-Propylbenzene	9.238	91	492417	10.524	ug/L	96
86)	1,4-Dichlorobutane	9.243	55	126152	8.253	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	63516	8.477	ug/L	93
88)	4-Ethyltoluene	9.311	105	386971	10.127	ug/L	95
89)	2-Chlorotoluene	9.322	91	345555	10.163	ug/L	96
90)	1,3,5-Trimethylbenzene	9.369	105	342907	10.141	ug/L	91
91)	1,2,3-Trichloropropane	9.364	75	52110	7.978	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.400	53	19476	8.401	ug/L #	73
93)	4-Chlorotoluene	9.426	91	306965	9.991	ug/L	94
94)	tert-Butylbenzene	9.552	119	302323	10.195	ug/L	97
97)	1,2,4-Trimethylbenzene	9.594	105	336163	10.001	ug/L	92
98)	sec-Butylbenzene	9.657	105	439018	10.411	ug/L	98
99)	p-Isopropyltoluene	9.746	119	375303	10.136	ug/L	97
100)	1,3-Dichlorobenzene	9.778	146	198769	9.945	ug/L	98
101)	1,4-Dichlorobenzene	9.830	146	198242	9.652	ug/L	98
102)	p-Diethylbenzene	9.956	119	222090	10.095	ug/L	92
103)	n-Butylbenzene	9.987	91	340391	10.477	ug/L	98
104)	1,2-Dichlorobenzene	10.071	146	182488	9.581	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.417	119	346604	10.030	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.527	155	7499	6.944	ug/L	90
107)	1,3,5-Trichlorobenzene	10.543	180	145268	10.061	ug/L	94
108)	Hexachlorobutadiene	10.889	225	60065	9.938	ug/L	95
109)	1,2,4-Trichlorobenzene	10.905	180	121115	9.140	ug/L	99
110)	Naphthalene	11.078	128	209842	7.970	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	102836	8.694	ug/L	99

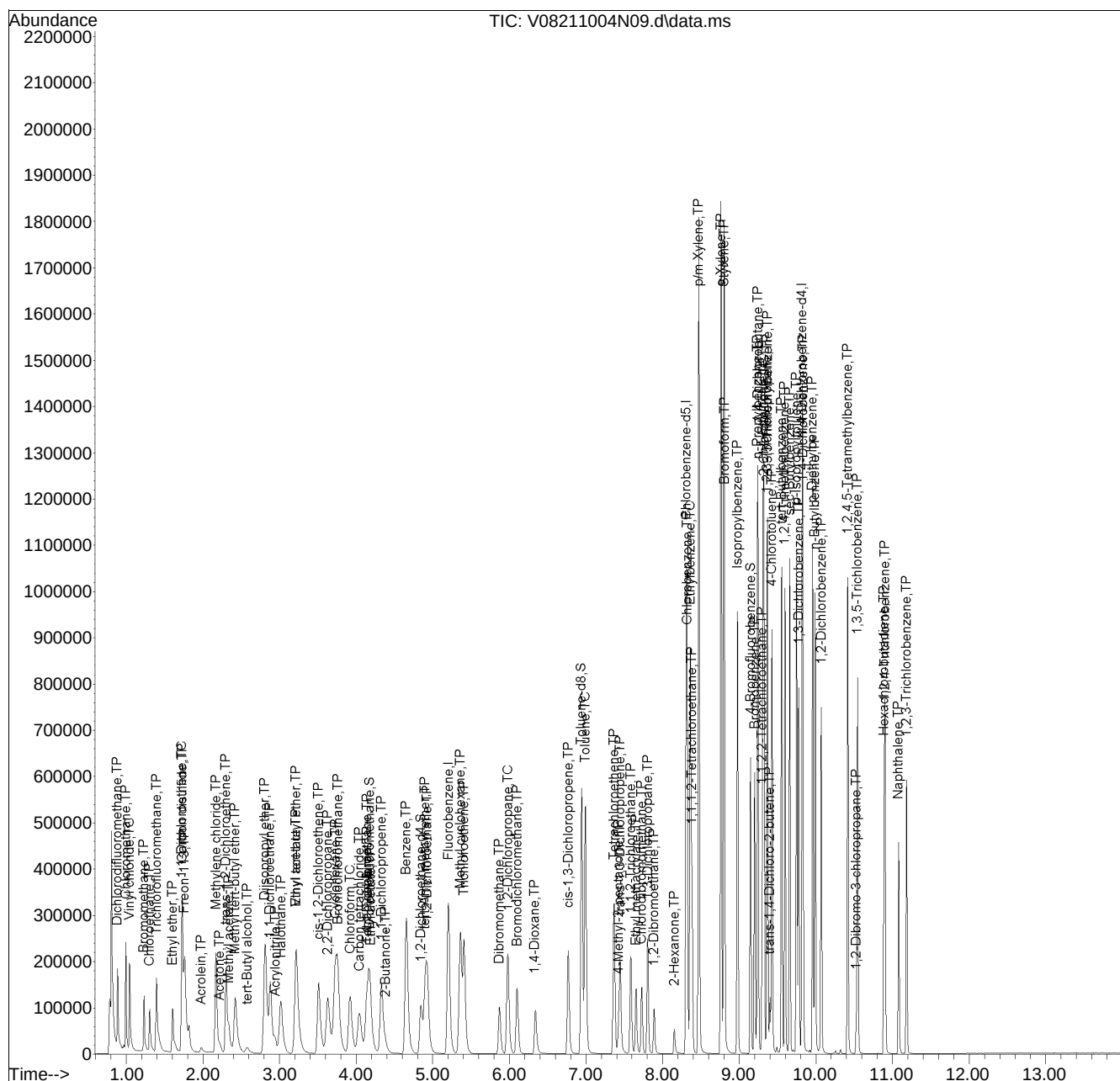
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\VOLATILES\VOA108\2021\211004NICAL\
Data File  : V08211004N09.d
Acq On     : 5 Oct 2021 2:45 am
Operator   : VOA108:NLK
Sample     : I8260STD10PPB
Misc       : WG1554783,ICAL18339
ALS Vial   : 9 Sample Multiplier: 1
```

Quant Time: Oct 05 15:02:01 2021
Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Sep 28 19:43:29 2021
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N09.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 2:45 am	Instrument	: VOA 108
Sample	: I8260STD10PPB	Quant Date	: 10/5/2021 3:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N10.d
 Acq On : 5 Oct 2021 3:05 am
 Operator : VOA108:NLK
 Sample : I8260STD30PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 15:08:44 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	381334	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	104.72%	
59) Chlorobenzene-d5	8.305	117	285946	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	103.03%	
79) 1,4-Dichlorobenzene-d4	9.820	152	151592	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	101.06%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	103006	9.834	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.34%	
43) 1,2-Dichloroethane-d4	4.844	65	107845	9.942	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.42%	
60) Toluene-d8	6.941	98	366598	10.082	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.82%	
83) 4-Bromofluorobenzene	9.149	95	138538	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.66%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	288141	29.577	ug/L	99
3) Chloromethane	0.996	50	360920	28.274	ug/L	98
4) Vinyl chloride	1.043	62	343394	29.834	ug/L	98
5) Bromomethane	1.232	94	147036	31.720	ug/L	97
6) Chloroethane	1.305	64	159994	27.401	ug/L	99
7) Trichlorofluoromethane	1.394	101	383433	30.095	ug/L	96
8) Ethyl ether	1.604	74	102800	31.158	ug/L	93
10) 1,1-Dichloroethene	1.725	96	224914	29.600	ug/L	77
11) Carbon disulfide	1.735	76	668814	30.187	ug/L	97
12) Freon-113	1.761	101	222357	30.892	ug/L	97
13) Iodomethane	1.819	142	170146	47.322	ug/L	88
14) Acrolein	1.976	56	28236	29.149	ug/L	98
15) Methylene chloride	2.170	84	237940	29.069	ug/L	96
17) Acetone	2.223	43	40681	24.918	ug/L	96
18) trans-1,2-Dichloroethene	2.301	96	250973	30.337	ug/L	87
19) Methyl acetate	2.338	43	109195	28.557	ug/L #	97
20) Methyl tert-butyl ether	2.422	73	490950	31.669	ug/L	94
21) tert-Butyl alcohol	2.574	59	65874	152.516	ug/L #	65
22) Diisopropyl ether	2.815	45	1141652	31.693	ug/L	98
23) 1,1-Dichloroethane	2.878	63	569833	29.855	ug/L	100
24) Halothane	3.020	117	217893	31.395	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N10.d
 Acq On : 5 Oct 2021 3:05 am
 Operator : VOA108:NLK
 Sample : I8260STD30PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 15:08:44 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	2.946	53	69853	28.412	ug/L	96
26) Ethyl tert-butyl ether	3.219	59	834103	32.882	ug/L	91
27) Vinyl acetate	3.219	43	588275	34.007	ug/L	98
28) cis-1,2-Dichloroethene	3.512	96	302203	30.012	ug/L #	81
29) 2,2-Dichloropropane	3.633	77	352883	30.888	ug/L #	79
30) Bromochloromethane	3.764	128	135904	30.334	ug/L #	75
31) Cyclohexane	3.727	56	563575	31.877	ug/L	92
32) Chloroform	3.921	83	502776	30.170	ug/L	99
33) Ethyl acetate	4.184	43	193412	31.669	ug/L #	95
34) Carbon tetrachloride	4.042	117	326829	32.632	ug/L	98
35) Tetrahydrofuran	4.126	42	70195	30.365	ug/L	99
37) 1,1,1-Trichloroethane	4.147	97	423982	31.708	ug/L #	97
39) 2-Butanone	4.378	43	84954	36.007	ug/L	97
40) 1,1-Dichloropropene	4.330	75	375618	32.573	ug/L	96
41) Benzene	4.655	78	1112243	31.017	ug/L	98
42) tert-Amyl methyl ether	4.902	73	561234	33.502	ug/L	92
44) 1,2-Dichloroethane	4.928	62	360145	30.155	ug/L	99
47) Methyl cyclohexane	5.363	83	434277	32.495	ug/L	95
48) Trichloroethene	5.405	95	292280	31.300	ug/L	95
50) Dibromomethane	5.867	93	141162	30.094	ug/L	95
51) 1,2-Dichloropropane	5.977	63	310012	31.688	ug/L	95
54) Bromodichloromethane	6.097	83	342971	32.208	ug/L	98
57) 1,4-Dioxane	6.333	88	19667	572.148	ug/L #	90
58) cis-1,3-Dichloropropene	6.768	75	377573	33.815	ug/L	96
61) Toluene	6.994	92	688143	30.229	ug/L	96
62) 4-Methyl-2-pentanone	7.424	58	62899	31.573	ug/L #	78
63) Tetrachloroethene	7.366	166	289522	30.712	ug/L	90
65) trans-1,3-Dichloropropene	7.445	75	295313	35.174	ug/L	91
67) Ethyl methacrylate	7.649	69	204107	34.886	ug/L	98
68) 1,1,2-Trichloroethane	7.581	83	159044	31.671	ug/L	92
69) Chlorodibromomethane	7.728	129	223015	34.112	ug/L	95
70) 1,3-Dichloropropane	7.801	76	337921	31.482	ug/L	100
71) 1,2-Dibromoethane	7.885	107	188006	32.354	ug/L	100
72) 2-Hexanone	8.147	43	112214	32.210	ug/L #	94
73) Chlorobenzene	8.320	112	757522	30.140	ug/L	90
74) Ethylbenzene	8.362	91	1340384	30.806	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.383	131	239112	34.052	ug/L	94
76) p/m Xylene	8.472	106	1016509	60.909	ug/L	100
77) o Xylene	8.761	106	964416	60.753	ug/L	94
78) Styrene	8.803	104	1605352	61.425	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N10.d
 Acq On : 5 Oct 2021 3:05 am
 Operator : VOA108:NLK
 Sample : I8260STD30PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 15:08:44 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	110245	34.850	ug/L	95
82)	Isopropylbenzene	8.976	105	1297330	31.340	ug/L	96
84)	Bromobenzene	9.201	156	308285	30.121	ug/L	99
85)	n-Propylbenzene	9.238	91	1541755	30.981	ug/L	96
86)	1,4-Dichlorobutane	9.243	55	382047	29.966	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	198095	30.860	ug/L	94
88)	4-Ethyltoluene	9.311	105	1222665	31.264	ug/L	95
89)	2-Chlorotoluene	9.322	91	1058162	30.300	ug/L	96
90)	1,3,5-Trimethylbenzene	9.369	105	1059339	30.568	ug/L	90
91)	1,2,3-Trichloropropane	9.364	75	162247	30.808	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.400	53	64381	32.709	ug/L #	76
93)	4-Chlorotoluene	9.427	91	957675	30.870	ug/L	95
94)	tert-Butylbenzene	9.552	119	954384	31.237	ug/L	97
97)	1,2,4-Trimethylbenzene	9.594	105	1047399	30.830	ug/L	92
98)	sec-Butylbenzene	9.657	105	1371797	30.919	ug/L	98
99)	p-Isopropyltoluene	9.746	119	1196240	31.539	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	606378	30.186	ug/L	98
101)	1,4-Dichlorobenzene	9.830	146	606058	30.250	ug/L	98
102)	p-Diethylbenzene	9.956	119	700553	31.212	ug/L	93
103)	n-Butylbenzene	9.988	91	1047004	30.436	ug/L	98
104)	1,2-Dichlorobenzene	10.072	146	554106	30.045	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.418	119	1145371	32.698	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.528	155	25542	33.703	ug/L	87
107)	1,3,5-Trichlorobenzene	10.543	180	441292	30.059	ug/L	95
108)	Hexachlorobutadiene	10.889	225	189043	31.142	ug/L	96
109)	1,2,4-Trichlorobenzene	10.905	180	387622	31.668	ug/L	98
110)	Naphthalene	11.078	128	702923	33.146	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	327347	31.497	ug/L	98

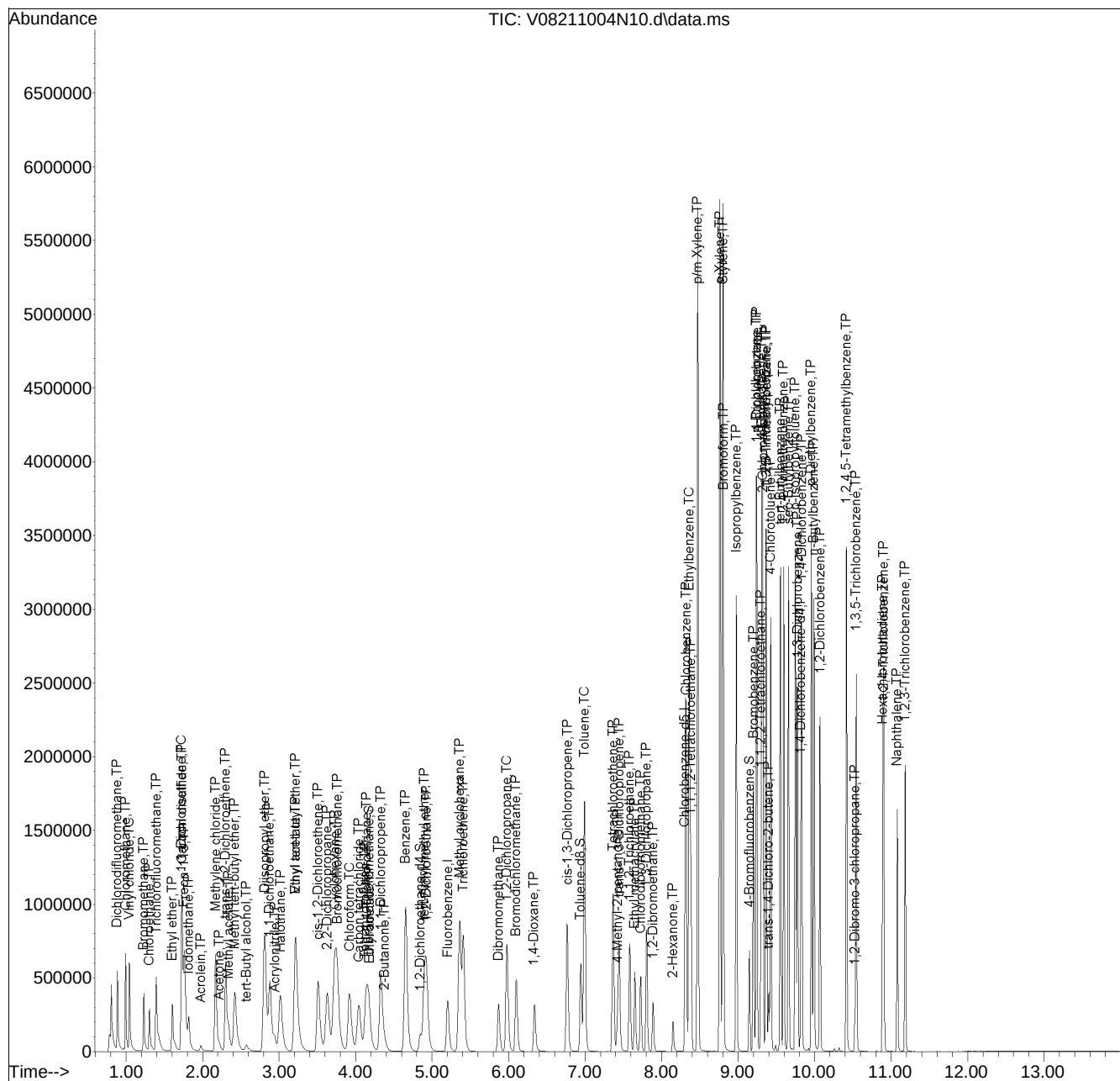
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
Data File : V08211004N10.d
Acq On : 5 Oct 2021 3:05 am
Operator : VOA108:NLK
Sample : I8260STD30PPB
Misc : WG1554783,ICAL18339
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 15:08:44 2021
Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 05 15:02:30 2021
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N10.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 3:05 am	Instrument	: VOA 108
Sample	: I8260STD30PPB	Quant Date	: 10/5/2021 3:03 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N11.d
 Acq On : 5 Oct 2021 3:26 am
 Operator : VOA108:NLK
 Sample : I8260STD80PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 15:09:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	388603	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	106.72%	
59) Chlorobenzene-d5	8.305	117	298479	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	107.54%	
79) 1,4-Dichlorobenzene-d4	9.820	152	153881	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	102.59%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	104724	9.811	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.11%	
43) 1,2-Dichloroethane-d4	4.849	65	109850	9.937	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.37%	
60) Toluene-d8	6.941	98	379666	10.003	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.03%	
83) 4-Bromofluorobenzene	9.149	95	143309	10.054	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.54%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	779438	78.511	ug/L	100
3) Chloromethane	0.996	50	977497	75.143	ug/L	99
4) Vinyl chloride	1.043	62	945432	80.603	ug/L	98
5) Bromomethane	1.232	94	423998	89.758	ug/L	98
6) Chloroethane	1.305	64	356073	59.842	ug/L	97
7) Trichlorofluoromethane	1.394	101	1048352	80.745	ug/L	97
8) Ethyl ether	1.604	74	292658	87.045	ug/L	90
10) 1,1-Dichloroethene	1.725	96	617357	79.728	ug/L	76
11) Carbon disulfide	1.735	76	1809532	80.145	ug/L	96
12) Freon-113	1.761	101	598085	81.537	ug/L	96
13) Iodomethane	1.819	142	592711	161.763	ug/L	87
14) Acrolein	1.976	56	81595	82.658	ug/L	96
15) Methylene chloride	2.170	84	634770	76.099	ug/L	93
17) Acetone	2.223	43	112639	67.702	ug/L	98
18) trans-1,2-Dichloroethene	2.301	96	686312	81.409	ug/L	86
19) Methyl acetate	2.338	43	307919	79.022	ug/L #	96
20) Methyl tert-butyl ether	2.422	73	1388069	87.862	ug/L	95
21) tert-Butyl alcohol	2.574	59	185336	421.076	ug/L #	63
22) Diisopropyl ether	2.810	45	3141610	85.581	ug/L	99
23) 1,1-Dichloroethane	2.878	63	1521143	78.205	ug/L	100
24) Halothane	3.020	117	602739	85.220	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N11.d
 Acq On : 5 Oct 2021 3:26 am
 Operator : VOA108:NLK
 Sample : I8260STD80PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 15:09:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	2.946	53	191518	76.441	ug/L	96
26) Ethyl tert-butyl ether	3.214	59	2362096	91.376	ug/L	91
27) Vinyl acetate	3.214	43	1684191	95.538	ug/L	100
28) cis-1,2-Dichloroethene	3.512	96	841209	81.978	ug/L #	79
29) 2,2-Dichloropropane	3.628	77	1003804	86.220	ug/L	83
30) Bromochloromethane	3.764	128	367134	80.411	ug/L #	75
31) Cyclohexane	3.727	56	1559214	86.543	ug/L	93
32) Chloroform	3.921	83	1348834	79.424	ug/L	99
33) Ethyl acetate	4.173	43	551149	88.555	ug/L #	95
34) Carbon tetrachloride	4.042	117	954156	93.485	ug/L	98
35) Tetrahydrofuran	4.115	42	182803	77.597	ug/L	95
37) 1,1,1-Trichloroethane	4.147	97	1186943	87.107	ug/L #	97
39) 2-Butanone	4.378	43	234198	97.405	ug/L #	86
40) 1,1-Dichloropropene	4.330	75	1031988	87.819	ug/L	95
41) Benzene	4.655	78	3011813	82.419	ug/L	98
42) tert-Amyl methyl ether	4.902	73	1636116	95.837	ug/L	95
44) 1,2-Dichloroethane	4.928	62	984673	80.904	ug/L	98
47) Methyl cyclohexane	5.358	83	1220523	89.617	ug/L	94
48) Trichloroethene	5.405	95	809226	85.039	ug/L	95
50) Dibromomethane	5.867	93	387943	81.157	ug/L	96
51) 1,2-Dichloropropane	5.977	63	859375	86.199	ug/L	94
54) Bromodichloromethane	6.097	83	988428	91.085	ug/L	98
57) 1,4-Dioxane	6.333	88	27704	790.883	ug/L #	78
58) cis-1,3-Dichloropropene	6.768	75	1118799	98.326	ug/L	96
61) Toluene	6.994	92	1890548	79.562	ug/L	96
62) 4-Methyl-2-pentanone	7.424	58	187465	90.150	ug/L #	82
63) Tetrachloroethene	7.366	166	812993	82.621	ug/L	90
65) trans-1,3-Dichloropropene	7.445	75	896529	102.299	ug/L	93
67) Ethyl methacrylate	7.649	69	613494	100.456	ug/L	98
68) 1,1,2-Trichloroethane	7.581	83	444493	84.798	ug/L	94
69) Chlorodibromomethane	7.728	129	655745	96.091	ug/L	96
70) 1,3-Dichloropropane	7.801	76	928645	82.884	ug/L	99
71) 1,2-Dibromoethane	7.885	107	523691	86.338	ug/L	99
72) 2-Hexanone	8.147	43	324378	89.201	ug/L	96
73) Chlorobenzene	8.320	112	2064657	78.700	ug/L	89
74) Ethylbenzene	8.362	91	3618787	79.679	ug/L	100
75) 1,1,1,2-Tetrachloroethane	8.383	131	703359	95.959	ug/L	94
76) p/m Xylene	8.472	106	2725842	156.473	ug/L	99
77) o Xylene	8.766	106	2598090	156.794	ug/L	94
78) Styrene	8.803	104	4274432	156.685	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N11.d
 Acq On : 5 Oct 2021 3:26 am
 Operator : VOA108:NLK
 Sample : I8260STD80PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 15:09:12 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	324556	101.070	ug/L	96
82)	Isopropylbenzene	8.976	105	3475567	82.711	ug/L	95
84)	Bromobenzene	9.201	156	824508	79.361	ug/L	98
85)	n-Propylbenzene	9.238	91	4204868	83.238	ug/L	96
86)	1,4-Dichlorobutane	9.243	55	1038639	80.255	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	535598	82.198	ug/L	94
88)	4-Ethyltoluene	9.311	105	3365919	84.787	ug/L	95
89)	2-Chlorotoluene	9.322	91	2872645	81.034	ug/L	96
90)	1,3,5-Trimethylbenzene	9.369	105	2911377	82.761	ug/L	89
91)	1,2,3-Trichloropropane	9.364	75	437869	81.908	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.400	53	188827	94.508	ug/L #	89
93)	4-Chlorotoluene	9.427	91	2626179	83.395	ug/L	95
94)	tert-Butylbenzene	9.552	119	2597169	83.740	ug/L	97
97)	1,2,4-Trimethylbenzene	9.594	105	2893043	83.890	ug/L	93
98)	sec-Butylbenzene	9.657	105	3722449	82.651	ug/L	97
99)	p-Isopropyltoluene	9.746	119	3311076	85.998	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	1633981	80.131	ug/L	99
101)	1,4-Dichlorobenzene	9.830	146	1627854	80.043	ug/L	99
102)	p-Diethylbenzene	9.956	119	1948162	85.507	ug/L	93
103)	n-Butylbenzene	9.993	91	2871607	82.234	ug/L	98
104)	1,2-Dichlorobenzene	10.071	146	1486924	79.425	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.418	119	3199244	89.974	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.528	155	79510	103.353	ug/L	92
107)	1,3,5-Trichlorobenzene	10.543	180	1223213	82.080	ug/L	95
108)	Hexachlorobutadiene	10.889	225	530321	86.064	ug/L	96
109)	1,2,4-Trichlorobenzene	10.905	180	1090423	87.761	ug/L	98
110)	Naphthalene	11.078	128	1978150	91.890	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	908014	86.070	ug/L	99

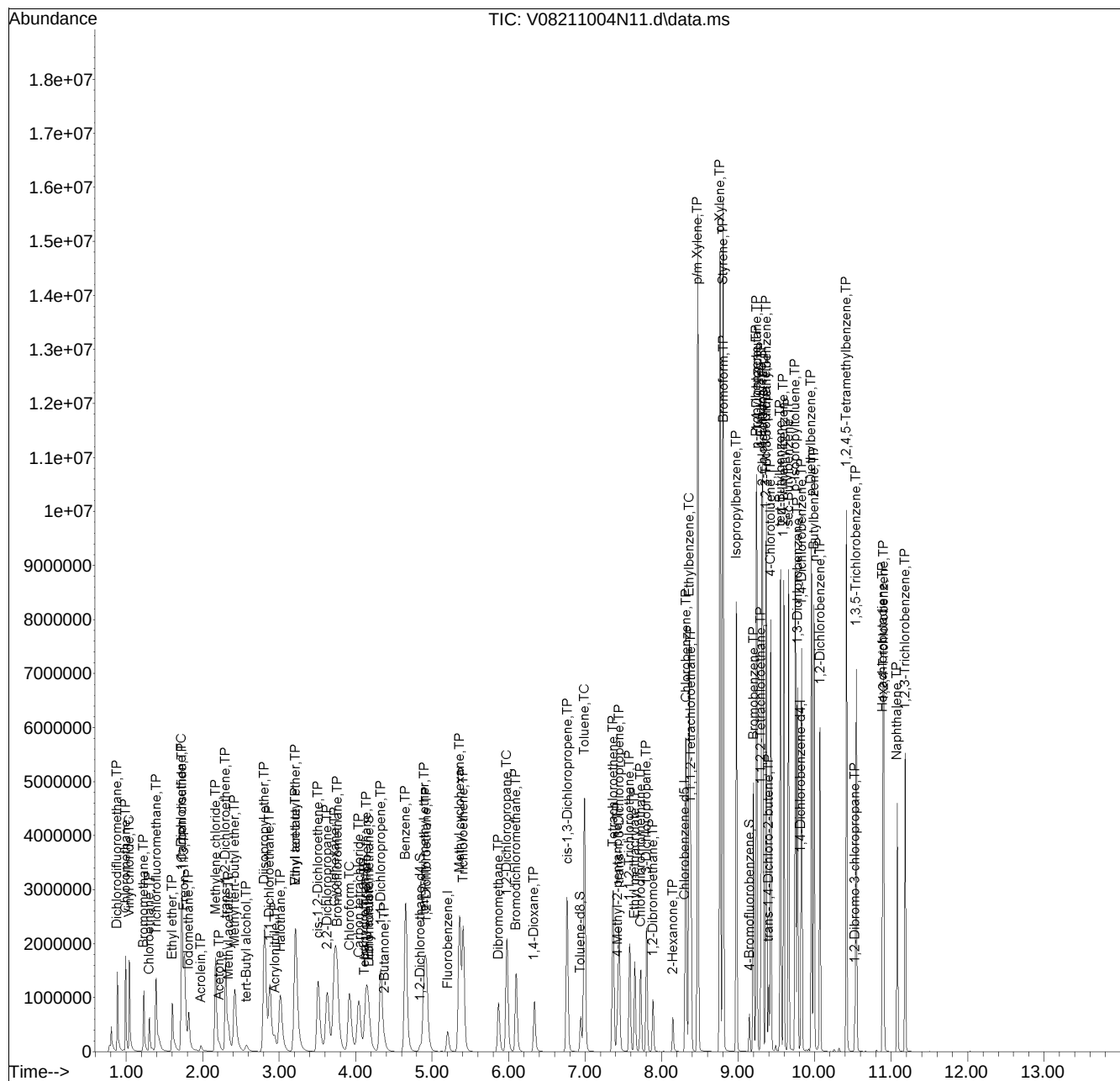
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
Data File : V08211004N11.d
Acq On : 5 Oct 2021 3:26 am
Operator : VOA108:NLK
Sample : I8260STD80PPB
Misc : WG1554783,ICAL18339
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 15:09:12 2021
Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 05 15:02:30 2021
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N11.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 3:26 am	Instrument	: VOA 108
Sample	: I8260STD80PPB	Quant Date	: 10/5/2021 3:03 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N12.d
 Acq On : 5 Oct 2021 3:46 am
 Operator : VOA108:NLK
 Sample : I8260STD120PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 15:09:39 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	397861	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	109.26%	
59) Chlorobenzene-d5	8.305	117	292840	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	105.51%	
79) 1,4-Dichlorobenzene-d4	9.825	152	151971	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	101.31%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	105758	9.678	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.78%	
43) 1,2-Dichloroethane-d4	4.844	65	112637	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.52%	
60) Toluene-d8	6.941	98	385295	10.347	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.47%	
83) 4-Bromofluorobenzene	9.149	95	140937	10.012	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.12%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	1095787	107.807	ug/L	100
3) Chloromethane	0.996	50	1512307	113.550	ug/L	98
4) Vinyl chloride	1.043	62	1354252	112.770	ug/L	98
5) Bromomethane	1.232	94	630752	130.420	ug/L	98
6) Chloroethane	1.305	64	443368	72.779	ug/L	97
7) Trichlorofluoromethane	1.389	101	1488105	111.948	ug/L	96
8) Ethyl ether	1.604	74	434524	126.232	ug/L	90
10) 1,1-Dichloroethene	1.725	96	879066	110.885	ug/L	76
11) Carbon disulfide	1.735	76	2554565	110.510	ug/L	96
12) Freon-113	1.761	101	841866	112.100	ug/L	96
13) Iodomethane	1.819	142	894733	238.509	ug/L	86
14) Acrolein	1.976	56	127067	125.727	ug/L	93
15) Methylene chloride	2.170	84	924880	108.299	ug/L	92
17) Acetone	2.223	43	167490	98.328	ug/L	98
18) trans-1,2-Dichloroethene	2.301	96	980646	113.615	ug/L	87
19) Methyl acetate	2.338	43	462547	115.943	ug/L #	97
20) Methyl tert-butyl ether	2.422	73	2100965	129.893	ug/L	96
21) tert-Butyl alcohol	2.574	59	277577	615.969	ug/L #	62
22) Diisopropyl ether	2.810	45	4593157	122.211	ug/L	99
23) 1,1-Dichloroethane	2.878	63	2181841	109.563	ug/L	100
24) Halothane	3.020	117	859579	118.706	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N12.d
 Acq On : 5 Oct 2021 3:46 am
 Operator : VOA108:NLK
 Sample : I8260STD120PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 15:09:39 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	2.946	53	290786	113.362	ug/L	97
26) Ethyl tert-butyl ether	3.214	59	3568871	134.847	ug/L	90
27) Vinyl acetate	3.214	43	2600778	144.099	ug/L	100
28) cis-1,2-Dichloroethene	3.507	96	1236418	117.688	ug/L #	78
29) 2,2-Dichloropropane	3.628	77	1481502	124.290	ug/L	87
30) Bromochloromethane	3.764	128	546634	116.939	ug/L #	74
31) Cyclohexane	3.727	56	2187848	118.609	ug/L	92
32) Chloroform	3.921	83	1983933	114.103	ug/L	99
33) Ethyl acetate	4.173	43	843358	132.352	ug/L #	96
34) Carbon tetrachloride	4.042	117	1411865	135.111	ug/L	97
35) Tetrahydrofuran	4.121	42	274400	113.768	ug/L	94
37) 1,1,1-Trichloroethane	4.142	97	1738422	124.610	ug/L #	97
39) 2-Butanone	4.372	43	352006	142.996	ug/L #	90
40) 1,1-Dichloropropene	4.330	75	1485156	123.442	ug/L	96
41) Benzene	4.655	78	4380784	117.092	ug/L	98
42) tert-Amyl methyl ether	4.902	73	2499614	143.010	ug/L	97
44) 1,2-Dichloroethane	4.928	62	1454081	116.692	ug/L	99
47) Methyl cyclohexane	5.363	83	1742725	124.983	ug/L	94
48) Trichloroethene	5.405	95	1167896	119.874	ug/L	96
50) Dibromomethane	5.867	93	578623	118.231	ug/L	95
51) 1,2-Dichloropropane	5.977	63	1263133	123.750	ug/L	95
54) Bromodichloromethane	6.097	83	1496211	134.669	ug/L	97
57) 1,4-Dioxane	6.333	88	43707	1218.696	ug/L #	76
58) cis-1,3-Dichloropropene	6.763	75	1696151	145.597	ug/L	97
61) Toluene	6.994	92	2761201	118.440	ug/L	94
62) 4-Methyl-2-pentanone	7.424	58	279042	136.773	ug/L #	81
63) Tetrachloroethene	7.366	166	1175690	121.781	ug/L	90
65) trans-1,3-Dichloropropene	7.445	75	1379609	160.453	ug/L	94
67) Ethyl methacrylate	7.649	69	937664	156.493	ug/L	98
68) 1,1,2-Trichloroethane	7.581	83	666320	129.564	ug/L	94
69) Chlorodibromomethane	7.728	129	1012922	151.289	ug/L	95
70) 1,3-Dichloropropane	7.801	76	1385883	126.075	ug/L	99
71) 1,2-Dibromoethane	7.885	107	784897	131.893	ug/L	99
72) 2-Hexanone	8.147	43	492393	138.010	ug/L #	96
73) Chlorobenzene	8.320	112	3022879	117.444	ug/L	90
74) Ethylbenzene	8.362	91	5164037	115.892	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.383	131	1060985	147.537	ug/L	95
76) p/m Xylene	8.472	106	3891803	227.706	ug/L	97
77) o Xylene	8.766	106	3710186	228.220	ug/L	93
78) Styrene	8.803	104	6123946	228.804	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N12.d
 Acq On : 5 Oct 2021 3:46 am
 Operator : VOA108:NLK
 Sample : I8260STD120PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 15:09:39 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	507061	159.888	ug/L	96
82)	Isopropylbenzene	8.976	105	4973706	119.851	ug/L	95
84)	Bromobenzene	9.201	156	1214463	118.364	ug/L	98
85)	n-Propylbenzene	9.238	91	5903923	118.341	ug/L	96
86)	1,4-Dichlorobutane	9.243	55	1535861	120.167	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	812887	126.321	ug/L	94
88)	4-Ethyltoluene	9.311	105	4842169	123.506	ug/L	95
89)	2-Chlorotoluene	9.322	91	4140002	118.253	ug/L	96
90)	1,3,5-Trimethylbenzene	9.369	105	4226036	121.642	ug/L	90
91)	1,2,3-Trichloropropane	9.364	75	658406	124.710	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.400	53	287729	145.818	ug/L #	92
93)	4-Chlorotoluene	9.427	91	3793177	121.967	ug/L	94
94)	tert-Butylbenzene	9.552	119	3721740	121.507	ug/L	96
97)	1,2,4-Trimethylbenzene	9.600	105	4193303	123.122	ug/L	92
98)	sec-Butylbenzene	9.657	105	5321491	119.641	ug/L	97
99)	p-Isopropyltoluene	9.752	119	4747911	124.867	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	2378467	118.107	ug/L	100
101)	1,4-Dichlorobenzene	9.830	146	2398498	119.418	ug/L	99
102)	p-Diethylbenzene	9.961	119	2862075	127.198	ug/L	93
103)	n-Butylbenzene	9.993	91	4151538	120.381	ug/L	97
104)	1,2-Dichlorobenzene	10.072	146	2213383	119.715	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.418	119	4719359	134.393	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.528	155	128825	169.560	ug/L	92
107)	1,3,5-Trichlorobenzene	10.543	180	1816780	123.441	ug/L	95
108)	Hexachlorobutadiene	10.889	225	786622	129.262	ug/L	95
109)	1,2,4-Trichlorobenzene	10.905	180	1629794	132.820	ug/L	98
110)	Naphthalene	11.078	128	2999924	141.106	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	1367806	131.283	ug/L	99

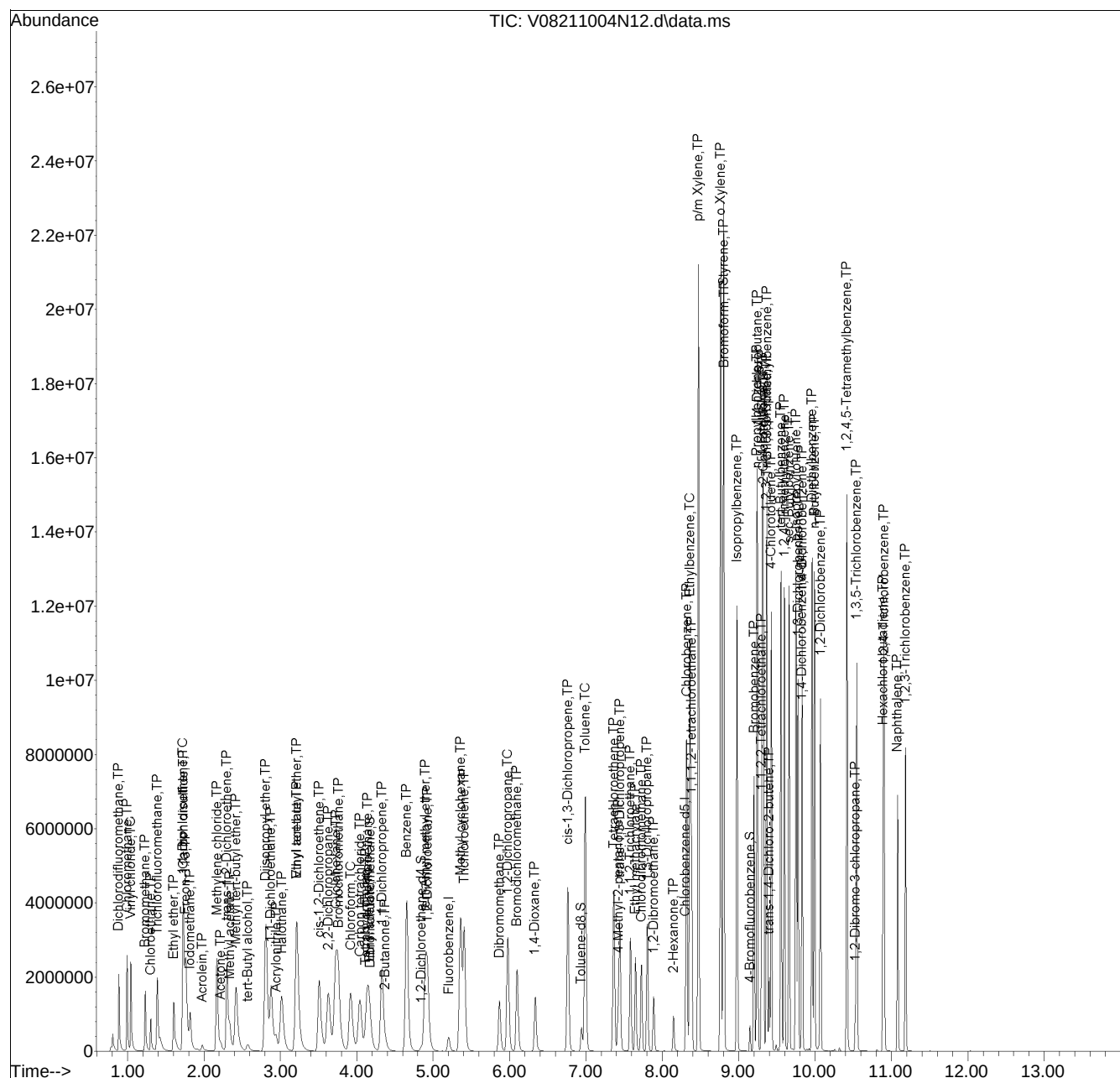
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N12.d
 Acq On : 5 Oct 2021 3:46 am
 Operator : VOA108:NLK
 Sample : I8260STD120PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 15:09:39 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N12.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 3:46 am	Instrument	: VOA 108
Sample	: I8260STD120PPB	Quant Date	: 10/5/2021 3:03 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N13.d
 Acq On : 5 Oct 2021 4:06 am
 Operator : VOA108:NLK
 Sample : I8260STD200PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 15:10:06 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	395541	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	108.62%	
59) Chlorobenzene-d5	8.310	117	301654	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	108.69%	
79) 1,4-Dichlorobenzene-d4	9.825	152	162859	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	108.57%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.173	113	106946	9.844	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.44%	
43) 1,2-Dichloroethane-d4	4.849	65	109438	9.726	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.26%	
60) Toluene-d8	6.941	98	390820	10.188	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.88%	
83) 4-Bromofluorobenzene	9.149	95	146666	9.723	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.23%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	1873218	185.375	ug/L	100
3) Chloromethane	0.996	50	2701970	204.064	ug/L	99
4) Vinyl chloride	1.043	62	2316882	194.061	ug/L	98
5) Bromomethane	1.232	94	1120084	232.957	ug/L	98
6) Chloroethane	1.305	64	759672	125.433	ug/L	97
7) Trichlorofluoromethane	1.389	101	2540831	192.265	ug/L	97
8) Ethyl ether	1.609	74	740394	216.351	ug/L	88
10) 1,1-Dichloroethene	1.725	96	1503597	190.775	ug/L	76
11) Carbon disulfide	1.735	76	4350649	189.313	ug/L	96
12) Freon-113	1.761	101	1444684	193.498	ug/L	96
13) Iodomethane	1.819	142	1634041	438.141	ug/L	87
14) Acrolein	1.981	56	214501	213.483	ug/L	92
15) Methylene chloride	2.170	84	1564097	184.223	ug/L	91
17) Acetone	2.223	43	284072	167.748	ug/L	100
18) trans-1,2-Dichloroethene	2.301	96	1688009	196.716	ug/L	86
19) Methyl acetate	2.338	43	797922	201.182	ug/L #	98
20) Methyl tert-butyl ether	2.422	73	3590740	223.300	ug/L	96
21) tert-Butyl alcohol	2.579	59	480289	1072.056	ug/L #	62
22) Diisopropyl ether	2.810	45	7872166	210.685	ug/L	99
23) 1,1-Dichloroethane	2.878	63	3767200	190.282	ug/L	99
24) Halothane	3.020	117	1488764	206.801	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N13.d
 Acq On : 5 Oct 2021 4:06 am
 Operator : VOA108:NLK
 Sample : I8260STD200PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 15:10:06 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	2.946	53	504677	197.900	ug/L	96
26) Ethyl tert-butyl ether	3.214	59	6165643	234.331	ug/L	90
27) Vinyl acetate	3.214	43	4486387	250.031	ug/L	100
28) cis-1,2-Dichloroethene	3.512	96	2141246	205.010	ug/L #	77
29) 2,2-Dichloropropane	3.628	77	2632457	222.145	ug/L	88
30) Bromochloromethane	3.764	128	919735	197.910	ug/L #	73
31) Cyclohexane	3.727	56	3770149	205.589	ug/L	91
32) Chloroform	3.921	83	3435857	198.767	ug/L	99
33) Ethyl acetate	4.173	43	1448154	228.598	ug/L #	96
34) Carbon tetrachloride	4.042	117	2529653	243.499	ug/L	98
35) Tetrahydrofuran	4.115	42	478537	199.568	ug/L	95
37) 1,1,1-Trichloroethane	4.142	97	3051344	220.004	ug/L #	97
39) 2-Butanone	4.372	43	603445	246.577	ug/L #	90
40) 1,1-Dichloropropene	4.330	75	2586070	216.207	ug/L	96
41) Benzene	4.655	78	7526325	202.347	ug/L	98
42) tert-Amyl methyl ether	4.897	73	4341298	249.835	ug/L	98
44) 1,2-Dichloroethane	4.928	62	2477882	200.020	ug/L	99
47) Methyl cyclohexane	5.363	83	2994041	215.982	ug/L	93
48) Trichloroethene	5.405	95	2005349	207.039	ug/L	95
50) Dibromomethane	5.867	93	998281	205.177	ug/L	95
51) 1,2-Dichloropropane	5.977	63	2167399	213.587	ug/L	95
54) Bromodichloromethane	6.097	83	2595042	234.941	ug/L	98
57) 1,4-Dioxane	6.328	88	104632	2934.599	ug/L #	89
58) cis-1,3-Dichloropropene	6.768	75	2939316	253.790	ug/L	97
61) Toluene	6.994	92	4766443	198.480	ug/L	94
62) 4-Methyl-2-pentanone	7.424	58	489150	232.752	ug/L #	84
63) Tetrachloroethene	7.366	166	2025257	203.651	ug/L	90
65) trans-1,3-Dichloropropene	7.445	75	2408750	271.960	ug/L	95
67) Ethyl methacrylate	7.649	69	1621787	262.762	ug/L	98
68) 1,1,2-Trichloroethane	7.581	83	1131549	213.598	ug/L	94
69) Chlorodibromomethane	7.728	129	1772947	257.068	ug/L	96
70) 1,3-Dichloropropane	7.801	76	2350287	207.561	ug/L	99
71) 1,2-Dibromoethane	7.885	107	1343390	219.146	ug/L	99
72) 2-Hexanone	8.147	43	847390	230.571	ug/L	97
73) Chlorobenzene	8.320	112	5137399	193.764	ug/L	90
74) Ethylbenzene	8.362	91	8636535	188.158	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.383	131	1852800	250.117	ug/L	94
76) p/m Xylene	8.478	106	6492161	368.752	ug/L	80
77) o Xylene	8.766	106	6199285	370.186	ug/L	74
78) Styrene	8.803	104	9486673	344.086	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N13.d
 Acq On : 5 Oct 2021 4:06 am
 Operator : VOA108:NLK
 Sample : I8260STD200PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 15:10:06 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	8.808	173	873108	256.905	ug/L	96
82)	Isopropylbenzene	8.981	105	8356583	187.906	ug/L	94
84)	Bromobenzene	9.201	156	2071042	188.353	ug/L	99
85)	n-Propylbenzene	9.243	91	9412519	176.055	ug/L	92
86)	1,4-Dichlorobutane	9.243	55	2597120	189.616	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.301	83	1389107	201.432	ug/L	94
88)	4-Ethyltoluene	9.311	105	8176502	194.610	ug/L	93
89)	2-Chlorotoluene	9.327	91	6968878	185.747	ug/L	96
90)	1,3,5-Trimethylbenzene	9.369	105	7260766	195.022	ug/L	88
91)	1,2,3-Trichloropropane	9.364	75	1126854	199.170	ug/L	98
92)	trans-1,4-Dichloro-2-b...	9.400	53	505622	239.113	ug/L #	91
93)	4-Chlorotoluene	9.427	91	6512459	195.404	ug/L	94
94)	tert-Butylbenzene	9.552	119	6393118	194.768	ug/L	95
97)	1,2,4-Trimethylbenzene	9.600	105	7241663	198.411	ug/L	91
98)	sec-Butylbenzene	9.663	105	8966271	188.108	ug/L	95
99)	p-Isopropyltoluene	9.752	119	8127998	199.470	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	4188839	194.098	ug/L	100
101)	1,4-Dichlorobenzene	9.830	146	4178507	194.134	ug/L	98
102)	p-Diethylbenzene	9.961	119	4989127	206.906	ug/L	94
103)	n-Butylbenzene	9.993	91	7124682	192.781	ug/L	96
104)	1,2-Dichlorobenzene	10.071	146	3838663	193.741	ug/L	99
105)	1,2,4,5-Tetramethylben...	10.418	119	7841953	208.385	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.528	155	230178	282.707	ug/L	92
107)	1,3,5-Trichlorobenzene	10.549	180	3078831	195.206	ug/L	95
108)	Hexachlorobutadiene	10.889	225	1358929	208.378	ug/L	95
109)	1,2,4-Trichlorobenzene	10.905	180	2759290	209.834	ug/L	97
110)	Naphthalene	11.078	128	5051915	221.738	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	2321798	207.949	ug/L	99

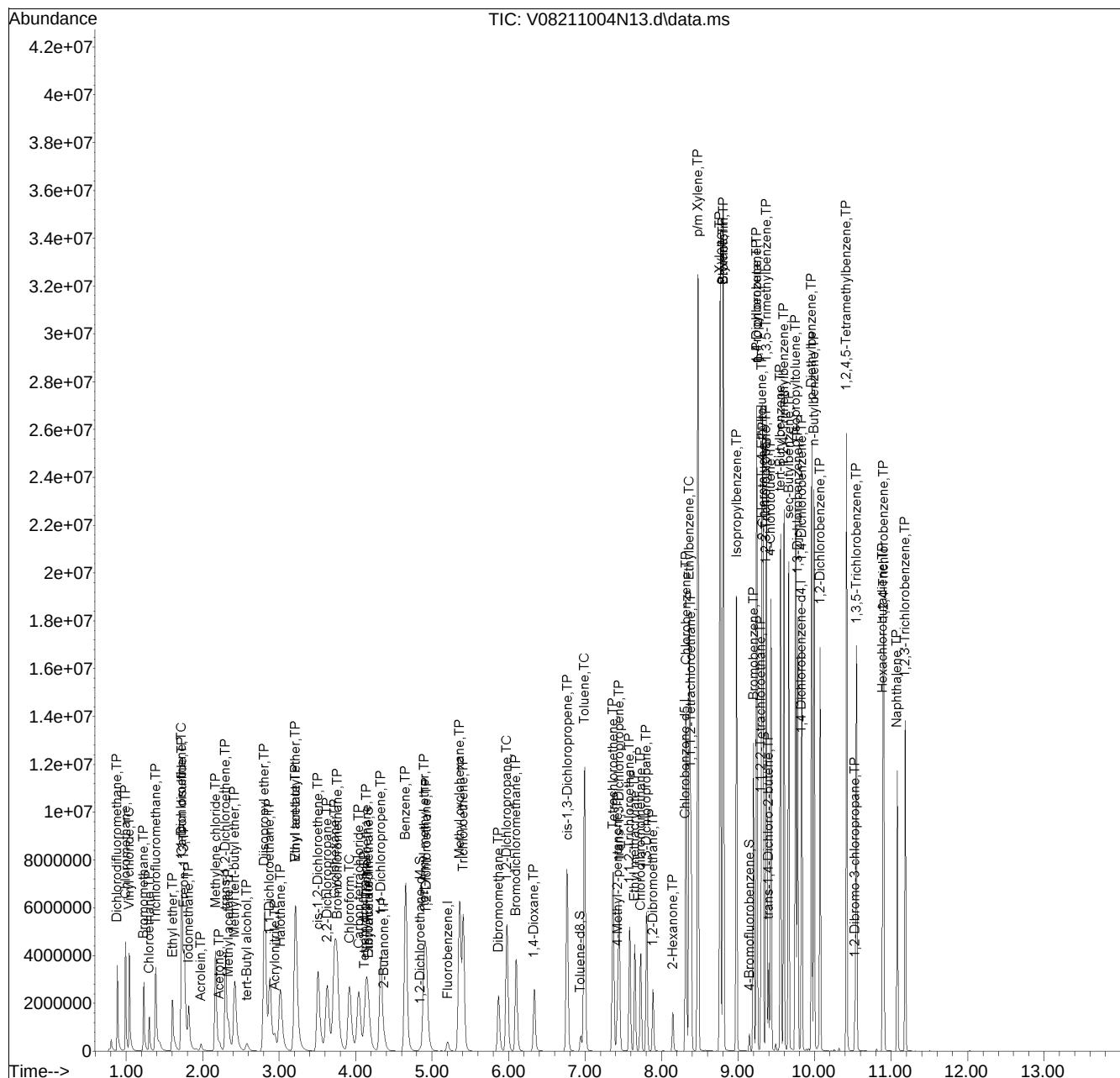
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N13.d
 Acq On : 5 Oct 2021 4:06 am
 Operator : VOA108:NLK
 Sample : I8260STD200PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 15:10:06 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Oct 05 15:02:30 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N13.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 4:06 am	Instrument	: VOA 108
Sample	: I8260STD200PPB	Quant Date	: 10/5/2021 3:03 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TP	Dichlorodifluoromethane	0.241	0.314	-30.3#	127	0.00
3 TP	Chloromethane	0.324	0.429	-32.4#	132	0.00
4 TC	Vinyl chloride	0.303	0.348	-14.9	119	0.00
5 TP	Bromomethane	0.132	0.167	-26.5#	142	0.00
6 TP	Chloroethane	0.141	0.164	-16.3	110	0.00
7 TP	Trichlorofluoromethane	0.326	0.367	-12.6	113	0.00
8 TP	Ethyl ether	0.086	0.097	-12.8	116	0.00
10 TC	1,1-Dichloroethene	0.187	0.195	-4.3	101	0.00
11 TP	Carbon disulfide	0.561	0.492	12.3	88	0.00
12 TP	Freon-113	0.176	0.199	-13.1	109	0.00
13 TP	Iodomethane	* 10.000	5.950	40.5#	71	0.00
14 TP	Acrolein	0.026	0.017#	34.6#	68	0.00
15 TP	Methylene chloride	0.206	0.213	-3.4	103	0.00
17 TP	Acetone	0.040	0.043#	-7.5	105	0.00
18 TP	trans-1,2-Dichloroethene	0.209	0.224	-7.2	107	0.00
19 TP	Methyl acetate	0.105	0.098#	6.7	101	0.00
20 TP	Methyl tert-butyl ether	0.406	0.406	0.0	103	0.00
21 TP	tert-Butyl alcohol	0.011	0.012#	-9.1	109	-0.01
22 TP	Diisopropyl ether	0.934	0.938	-0.4	103	0.00
23 TP	1,1-Dichloroethane	0.477	0.507	-6.3	105	0.00
24 TP	Halothane	0.178	0.182	-2.2	103	0.00
25 TP	Acrylonitrile	0.059	0.063	-6.8	101	-0.01
26 TP	Ethyl tert-butyl ether	0.683	0.677	0.9	105	0.00
27 TP	Vinyl acetate	0.478	0.408	14.6	93	0.00
28 TP	cis-1,2-Dichloroethene	0.257	0.264	-2.7	103	0.00
29 TP	2,2-Dichloropropane	0.291	0.290	0.3	100	0.00
30 TP	Bromochloromethane	0.115	0.118	-2.6	104	0.00
31 TP	Cyclohexane	0.454	0.487	-7.3	108	0.00
32 TC	Chloroform	0.418	0.444	-6.2	105	0.00
33 TP	Ethyl acetate	0.161	0.160	0.6	103	0.00
34 TP	Carbon tetrachloride	* 10.000	9.581	4.2	112	-0.02
35 TP	Tetrahydrofuran	0.059	0.061	-3.4	105	0.00
36 S	Dibromofluoromethane	0.275	0.277	-0.7	104	-0.01
37 TP	1,1,1-Trichloroethane	0.343	0.382	-11.4	113	0.00
39 TP	2-Butanone	0.069	0.062#	10.1	103	0.00
40 TP	1,1-Dichloropropene	0.300	0.314	-4.7	107	0.00
41 TP	Benzene	0.936	0.952	-1.7	105	0.00
42 TP	tert-Amyl methyl ether	0.462	0.437	5.4	103	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.281	0.282	-0.4	102	0.00
44 TP	1,2-Dichloroethane	0.303	0.313	-3.3	103	0.00
47 TP	Methyl cyclohexane	0.347	0.346	0.3	102	0.00
48 TP	Trichloroethene	0.244	0.266	-9.0	112	0.00
50 TP	Dibromomethane	0.121	0.118	2.5	99	0.00
51 TC	1,2-Dichloropropane	0.255	0.263	-3.1	106	0.00
54 TP	Bromodichloromethane	0.286	0.282	1.4	104	-0.01
57 TP	1,4-Dioxane	0.00097	0.00120#	-23.7#	138	-0.01
58 TP	cis-1,3-Dichloropropene	* 10.000	9.369	6.3	107	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
60 S	Toluene-d8	1.272	1.289	-1.3	104	0.00
61 TC	Toluene	0.791	0.793	-0.3	102	0.00
62 TP	4-Methyl-2-pentanone	0.073	0.068#	6.8	100	0.00
63 TP	Tetrachloroethene	0.314	0.341	-8.6	106	0.00
65 TP	trans-1,3-Dichloropropene	* 10.000	9.139	8.6	108	0.00
67 TP	Ethyl methacrylate	* 10.000	9.822	1.8	108	0.00
68 TP	1,1,2-Trichloroethane	0.174	0.177	-1.7	104	0.00
69 TP	Chlorodibromomethane	* 10.000	9.470	5.3	108	0.00
70 TP	1,3-Dichloropropane	0.366	0.379	-3.6	103	0.00
71 TP	1,2-Dibromoethane	0.198	0.208	-5.1	105	0.00
72 TP	2-Hexanone	0.129	0.123	4.7	103	0.00
73 TP	Chlorobenzene	0.843	0.908	-7.7	106	0.00
74 TC	Ethylbenzene	1.446	1.530	-5.8	103	0.00
75 TP	1,1,1,2-Tetrachloroethane	* 10.000	9.411	5.9	107	0.00
76 TP	p/m Xylene	0.545	0.583	-7.0	102	0.00
77 TP	o Xylene	0.520	0.571	-9.8	105	0.00
78 TP	Styrene	0.810	0.924	-14.1	104	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80 TP	Bromoform	* 10.000	9.323	6.8	112	0.00
82 TP	Isopropylbenzene	2.594	2.791	-7.6	104	0.00
83 S	4-Bromofluorobenzene	0.917	0.922	-0.5	101	0.00
84 TP	Bromobenzene	0.647	0.673	-4.0	101	0.00
85 TP	n-Propylbenzene	3.099	3.348	-8.0	103	0.00
86 TP	1,4-Dichlorobutane	0.806	0.835	-3.6	101	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.421	0.427	-1.4	102	0.00
88 TP	4-Ethyltoluene	2.492	2.740	-10.0	108	0.00
89 TP	2-Chlorotoluene	2.199	2.333	-6.1	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.194	2.276	-3.7	101	0.00
91 TP	1,2,3-Trichloropropane	0.352	0.345	2.0	101	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.143	0.130	9.1	102	0.00
93 TP	4-Chlorotoluene	1.999	2.092	-4.7	104	0.00
94 TP	tert-Butylbenzene	1.944	2.092	-7.6	105	0.00
97 TP	1,2,4-Trimethylbenzene	2.157	2.326	-7.8	105	0.00
98 TP	sec-Butylbenzene	2.774	2.966	-6.9	103	0.00
99 TP	p-Isopropyltoluene	2.404	2.578	-7.2	104	0.00
100 TP	1,3-Dichlorobenzene	1.278	1.354	-5.9	104	0.00
101 TP	1,4-Dichlorobenzene	1.296	1.354	-4.5	104	0.00
102 TP	p-Diethylbenzene	1.431	1.455	-1.7	100	0.00
103 TP	n-Butylbenzene	2.145	2.379	-10.9	106	0.00
104 TP	1,2-Dichlorobenzene	1.176	1.239	-5.4	103	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.388	2.338	2.1	103	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	9.491	5.1	112	0.00
107 TP	1,3,5-Trichlorobenzene	0.935	0.941	-0.6	98	0.00
108 TP	Hexachlorobutadiene	0.396	0.389	1.8	98	0.00
109 TP	1,2,4-Trichlorobenzene	0.802	0.808	-0.7	101	0.00
110 TP	Naphthalene	1.416	1.381	2.5	100	0.00
111 TP	1,2,3-Trichlorobenzene	0.689	0.680	1.3	101	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 7 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.206	96	376146	10.000	ug/L	0.00
Standard Area 1 = 364139			Recovery	=	103.30%	
59) Chlorobenzene-d5	8.305	117	284440	10.000	ug/L	0.00
Standard Area 1 = 277541			Recovery	=	102.49%	
79) 1,4-Dichlorobenzene-d4	9.820	152	152064	10.000	ug/L	0.00
Standard Area 1 = 149999			Recovery	=	101.38%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.173	113	104027	10.048	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.48%	
43) 1,2-Dichloroethane-d4	4.849	65	106125	10.041	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.41%	
60) Toluene-d8	6.941	98	366602	10.132	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.32%	
83) 4-Bromofluorobenzene	9.149	95	140143	10.051	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.51%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.886	85	118216	13.020	ug/L	99
3) Chloromethane	0.996	50	161197	13.224	ug/L	98
4) Vinyl chloride	1.043	62	130853	11.468	ug/L	97
5) Bromomethane	1.232	94	62976	12.689	ug/L	96
6) Chloroethane	1.305	64	61528	11.629	ug/L	99
7) Trichlorofluoromethane	1.394	101	137965	11.262	ug/L	97
8) Ethyl ether	1.604	74	36613	11.321	ug/L	91
10) 1,1-Dichloroethene	1.725	96	73475	10.421	ug/L	# 77
11) Carbon disulfide	1.735	76	185191	8.769	ug/L	96
12) Freon-113	1.761	101	74980	11.312	ug/L	95
13) Iodomethane	1.824	142	24301	5.950	ug/L	85
14) Acrolein	1.976	56	6283	6.470	ug/L	92
15) Methylene chloride	2.170	84	80193	10.355	ug/L	94
17) Acetone	2.223	43	16293	10.783	ug/L	98
18) trans-1,2-Dichloroethene	2.301	96	84239	10.733	ug/L	86
19) Methyl acetate	2.338	43	37023	9.358	ug/L	# 99
20) Methyl tert-butyl ether	2.422	73	152847	10.001	ug/L	93
21) tert-Butyl alcohol	2.579	59	22450	55.187	ug/L	# 84
22) Diisopropyl ether	2.815	45	352869	10.042	ug/L	97
23) 1,1-Dichloroethane	2.878	63	190701	10.618	ug/L	100
24) Halothane	3.020	117	68568	10.237	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25)	Acrylonitrile	2.946	53	23696	10.680	ug/L	96
26)	Ethyl tert-butyl ether	3.219	59	254581	9.912	ug/L	98
27)	Vinyl acetate	3.219	43	153384	8.534	ug/L	98
28)	cis-1,2-Dichloroethene	3.513	96	99168	10.239	ug/L #	79
29)	2,2-Dichloropropane	3.633	77	108935	9.967	ug/L #	79
30)	Bromochloromethane	3.764	128	44456	10.276	ug/L #	76
31)	Cyclohexane	3.727	56	183007	10.724	ug/L	92
32)	Chloroform	3.921	83	166823	10.600	ug/L	99
33)	Ethyl acetate	4.178	43	60073	9.946	ug/L #	94
34)	Carbon tetrachloride	4.037	117	106870	9.581	ug/L	98
35)	Tetrahydrofuran	4.131	42	23129	10.339	ug/L	92
37)	1,1,1-Trichloroethane	4.147	97	143871	11.161	ug/L #	98
39)	2-Butanone	4.388	43	23230	8.930	ug/L #	74
40)	1,1-Dichloropropene	4.330	75	118252	10.488	ug/L	95
41)	Benzene	4.655	78	358182	10.178	ug/L	97
42)	tert-Amyl methyl ether	4.902	73	164517	9.469	ug/L	91
44)	1,2-Dichloroethane	4.933	62	117715	10.313	ug/L	99
47)	Methyl cyclohexane	5.363	83	130254	9.965	ug/L	99
48)	Trichloroethene	5.410	95	100192	10.937	ug/L	96
50)	Dibromomethane	5.867	93	44231	9.741	ug/L	95
51)	1,2-Dichloropropane	5.977	63	98756	10.314	ug/L	95
54)	Bromodichloromethane	6.097	83	106145	9.863	ug/L	99
57)	1,4-Dioxane	6.328	88	22612	622.701	ug/L	90
58)	cis-1,3-Dichloropropene	6.768	75	114274	9.369	ug/L	94
61)	Toluene	6.994	92	225564	10.023	ug/L	96
62)	4-Methyl-2-pentanone	7.429	58	19247	9.228	ug/L #	77
63)	Tetrachloroethene	7.366	166	96893	10.860	ug/L	89
65)	trans-1,3-Dichloropropene	7.445	75	87934	9.139	ug/L	90
67)	Ethyl methacrylate	7.649	69	61561	9.822	ug/L	96
68)	1,1,2-Trichloroethane	7.586	83	50487	10.180	ug/L	95
69)	Chlorodibromomethane	7.728	129	68274	9.470	ug/L	96
70)	1,3-Dichloropropane	7.807	76	107667	10.349	ug/L	99
71)	1,2-Dibromoethane	7.885	107	59240	10.534	ug/L	100
72)	2-Hexanone	8.153	43	34934	9.532	ug/L #	92
73)	Chlorobenzene	8.320	112	258318	10.771	ug/L	90
74)	Ethylbenzene	8.362	91	435257	10.586	ug/L	100
75)	1,1,1,2-Tetrachloroethane	8.383	131	72861	9.411	ug/L	95
76)	p/m Xylene	8.472	106	331732	21.406	ug/L	99
77)	o Xylene	8.761	106	324650	21.960	ug/L	94
78)	Styrene	8.803	104	525772	22.821	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211004NICAL\V08211004N09.d
 Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
80)	Bromoform	8.808	173	34944	9.323	ug/L		95
82)	Isopropylbenzene	8.976	105	424361	10.759	ug/L		94
84)	Bromobenzene	9.201	156	102349	10.409	ug/L		96
85)	n-Propylbenzene	9.238	91	509139	10.804	ug/L		97
86)	1,4-Dichlorobutane	9.243	55	127023	10.360	ug/L		94
87)	1,1,2,2-Tetrachloroethane	9.301	83	64943	10.140	ug/L		94
88)	4-Ethyltoluene	9.311	105	416651	10.993	ug/L		95
89)	2-Chlorotoluene	9.322	91	354712	10.607	ug/L		96
90)	1,3,5-Trimethylbenzene	9.369	105	346132	10.373	ug/L		91
91)	1,2,3-Trichloropropane	9.364	75	52508	9.804	ug/L		99
92)	trans-1,4-Dichloro-2-b...	9.400	53	19799	9.127	ug/L	#	71
93)	4-Chlorotoluene	9.427	91	318119	10.465	ug/L		94
94)	tert-Butylbenzene	9.552	119	318148	10.760	ug/L		99
97)	1,2,4-Trimethylbenzene	9.594	105	353728	10.786	ug/L		92
98)	sec-Butylbenzene	9.657	105	451048	10.692	ug/L		97
99)	p-Isopropyltoluene	9.746	119	391992	10.722	ug/L		96
100)	1,3-Dichlorobenzene	9.778	146	205957	10.601	ug/L		99
101)	1,4-Dichlorobenzene	9.830	146	205839	10.441	ug/L		98
102)	p-Diethylbenzene	9.956	119	221227	10.165	ug/L		93
103)	n-Butylbenzene	9.993	91	361689	11.087	ug/L		99
104)	1,2-Dichlorobenzene	10.072	146	188371	10.530	ug/L		98
105)	1,2,4,5-Tetramethylben...	10.418	119	355566	9.791	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.528	155	8369	9.491	ug/L		87
107)	1,3,5-Trichlorobenzene	10.543	180	143047	10.056	ug/L		95
108)	Hexachlorobutadiene	10.889	225	59113	9.822	ug/L		96
109)	1,2,4-Trichlorobenzene	10.905	180	122812	10.068	ug/L		98
110)	Naphthalene	11.083	128	210001	9.752	ug/L		100
111)	1,2,3-Trichlorobenzene	11.183	180	103452	9.871	ug/L		99

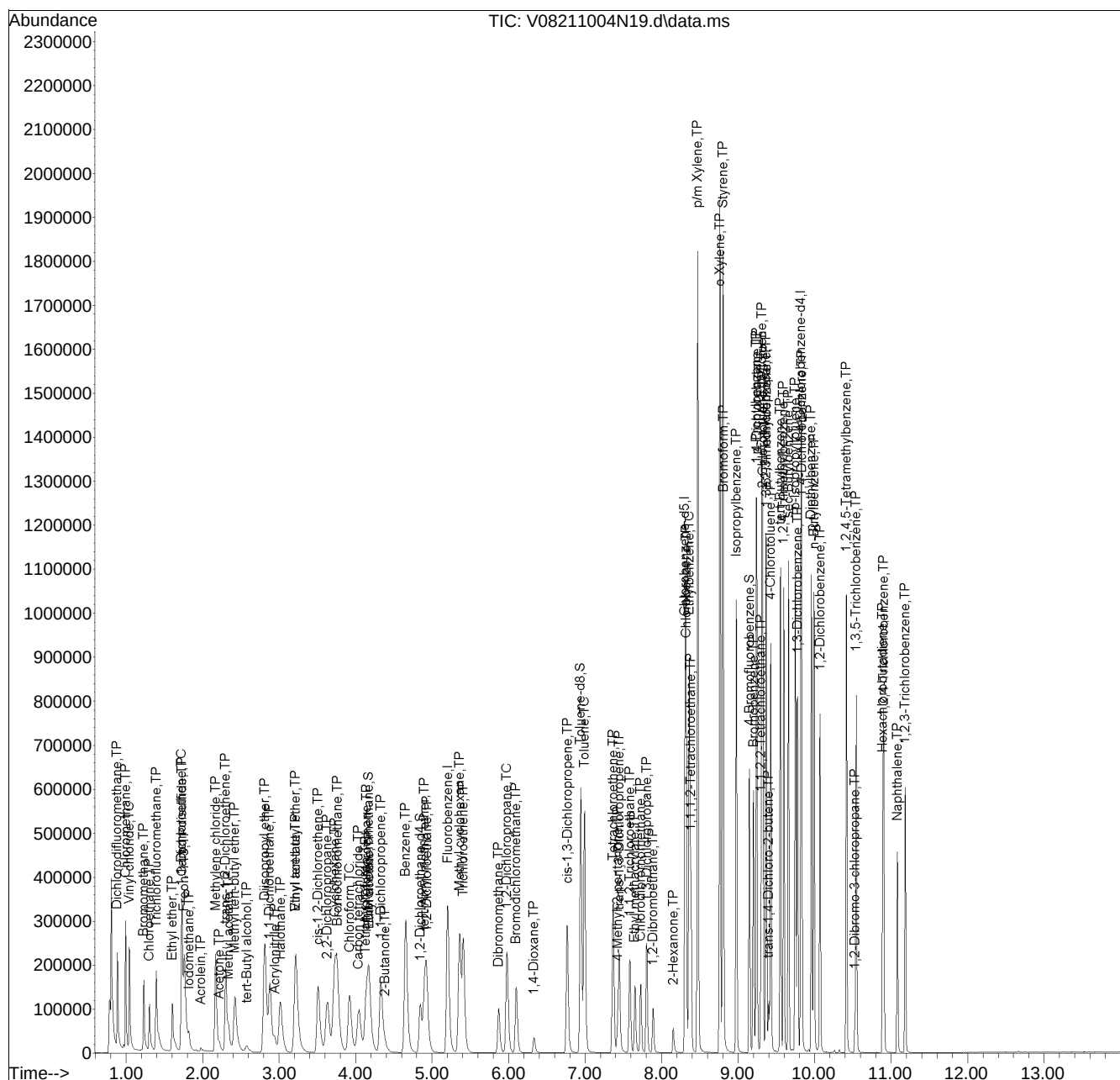
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211004NICAL\
 Data File : V08211004N19.d
 Acq On : 5 Oct 2021 6:08 am
 Operator : VOA108:NLK
 Sample : C8260STD10PPB
 Misc : WG1554783,ICAL18339
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 06 10:31:46 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211004NICAL\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVECAL\V08211004N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211004N19.d	Operator	: VOA108:NLK
Date Inj'd	: 10/5/2021 6:08 am	Instrument	: VOA 108
Sample	: C8260STD10PPB	Quant Date	: 10/6/2021 10:31 am

There are no manual integrations or false positives in this file.

Correlation Data Summary

Method Path: I:\VOLATILES\VOA108\2021\211004NICAL\
Method File: V108_211004N_8260.m
Method Title: VOLATILES BY GC/MS
Last Update: Wed Oct 06 10:31:08 2021
CSV generated: Wed Oct 06 10:58:36 2021

Analyte	Curve fit Type	Coefficient of Determination	Quadratic Term	Linear Term	Constant Term
Iodomethane	Quadratic	0.997746	0.002286	0.163845	-0.033688
Carbon tetrachloride	Linear	0.998258	0	0.308565	-0.011517
2-Chloroethyl vinyl ether	Quadratic	0	0	0	0
Methyl methacrylate	Quadratic	0.99923	0.00296	0.180166	-0.004331
cis-1,3-Dichloropropene	Quadratic	0.999432	0.002007	0.333184	-0.010128
trans-1,3-Dichloropropene	Quadratic	0.999199	0.002648	0.351274	-0.014086
Ethyl methacrylate	Quadratic	0.999431	0.003704	0.22477	-0.007903
Chlorodibromomethane	Quadratic	0.999551	0.001799	0.260684	-0.008448
1,1,1,2-Tetrachloroethane	Quadratic	0.999591	0.001435	0.280925	-0.009494
Bromoform	Quadratic	0.998442	0.000867	0.255718	-0.009349
1,2-Dibromo-3-chloropropane	Quadratic	0.998276	0.000625	0.059551	-0.002048

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Lab File ID : V08211104A01
 Sample No : WG1567182-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:03
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 01:04 04:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	87	-.01
Dichlorodifluoromethane	0.241	0.212	-	12	20	72	0
Chloromethane	0.324	0.333	-	-2.8	20	87	0
Vinyl chloride	0.303	0.275	-	9.2	20	79	0
Bromomethane	0.132	0.153	-	-15.9	20	110	0
Chloroethane	0.141	0.179	-	-27*	20	102	0
Trichlorofluoromethane	0.326	0.347	-	-6.4	20	91	0
Ethyl ether	0.086	0.094	-	-9.3	20	95	0
1,1-Dichloroethene	0.187	0.201	-	-7.5	20	88	0
Carbon disulfide	0.561	0.584	-	-4.1	20	88	0
Freon-113	0.176	0.201	-	-14.2	20	93	0
Acrolein	0.026	0.013*	-	50*	20	44	0
Methylene chloride	0.206	0.223	-	-8.3	20	91	0
Acetone	0.04	0.044*	-	-10	20	90	0
trans-1,2-Dichloroethene	0.209	0.224	-	-7.2	20	90	0
Methyl acetate	0.105	0.104	-	1	20	90	0
Methyl tert-butyl ether	0.406	0.425	-	-4.7	20	91	0
tert-Butyl alcohol	0.011	0.011*	-	0	20	88	-.02
Diisopropyl ether	0.934	0.857	-	8.2	20	79	0
1,1-Dichloroethane	0.477	0.48	-	-0.6	20	84	0
Halothane	0.178	0.171	-	3.9	20	82	0
Acrylonitrile	0.059	0.05	-	15.3	20	68	-.02
Ethyl tert-butyl ether	0.683	0.618	-	9.5	20	81	0
Vinyl acetate	0.478	0.424	-	11.3	20	82	0
cis-1,2-Dichloroethene	0.257	0.247	-	3.9	20	82	-.01
2,2-Dichloropropane	0.291	0.32	-	-10	20	93	0
Bromochloromethane	0.115	0.108	-	6.1	20	80	0
Cyclohexane	0.454	0.416	-	8.4	20	78	0
Chloroform	0.418	0.425	-	-1.7	20	85	0
Ethyl acetate	0.161	0.137	-	14.9	20	75	0
Carbon tetrachloride	10	8.716	-	12.8	20	85	-.02
Tetrahydrofuran	0.059	0.048*	-	18.6	20	69	0
Dibromofluoromethane	0.275	0.264	-	4	20	84	0
1,1,1-Trichloroethane	0.343	0.339	-	1.2	20	84	0
2-Butanone	0.069	0.058*	-	15.9	20	81	0
1,1-Dichloropropene	0.3	0.274	-	8.7	20	79	0
Benzene	0.936	0.872	-	6.8	20	81	0
tert-Amyl methyl ether	0.462	0.38	-	17.7	20	76	-.01
1,2-Dichloroethane-d4	0.281	0.276	-	1.8	20	85	0
1,2-Dichloroethane	0.303	0.289	-	4.6	20	80	0
Methyl cyclohexane	0.347	0.311	-	10.4	20	78	-.01
Trichloroethene	0.244	0.23	-	5.7	20	82	0
Dibromomethane	0.121	0.108	-	10.7	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Lab File ID : V08211104A01
 Sample No : WG1567182-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:03
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 01:04 04:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.255	0.247	-	3.1	20	84	0
Bromodichloromethane	0.286	0.255	-	10.8	20	80	-.01
1,4-Dioxane	0.00097	0.00091*	-	6.2	20	88	0
cis-1,3-Dichloropropene	10	8.117	-	18.8	20	78	0
Chlorobenzene-d5	1	1	-	0	20	84	0
Toluene-d8	1.272	1.234	-	3	20	82	0
Toluene	0.791	0.736	-	7	20	78	0
4-Methyl-2-pentanone	0.073	0.051*	-	30.1*	20	62	0
Tetrachloroethene	0.314	0.3	-	4.5	20	77	0
trans-1,3-Dichloropropene	10	7.92	-	20.8*	20	76	0
Ethyl methacrylate	10	7.978	-	20.2*	20	72	0
1,1,2-Trichloroethane	0.174	0.161	-	7.5	20	77	0
Chlorodibromomethane	10	7.883	-	21.2*	20	73	0
1,3-Dichloropropane	0.366	0.331	-	9.6	20	75	0
1,2-Dibromoethane	0.198	0.177	-	10.6	20	74	0
2-Hexanone	0.129	0.093*	-	27.9*	20	65	0
Chlorobenzene	0.843	0.808	-	4.2	20	78	0
Ethylbenzene	1.446	1.386	-	4.1	20	77	0
1,1,1,2-Tetrachloroethane	10	8.563	-	14.4	20	80	0
p/m Xylene	0.545	0.535	-	1.8	20	77	0
o Xylene	0.52	0.505	-	2.9	20	77	0
Styrene	0.81	0.844	-	-4.2	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Bromoform	10	7.505	-	24.9*	20	73	0
Isopropylbenzene	2.594	2.522	-	2.8	20	77	0
4-Bromofluorobenzene	0.917	0.904	-	1.4	20	81	0
Bromobenzene	0.647	0.601	-	7.1	20	74	0
n-Propylbenzene	3.099	3.088	-	0.4	20	78	0
1,4-Dichlorobutane	0.806	0.74	-	8.2	20	73	0
1,1,2,2-Tetrachloroethane	0.421	0.361	-	14.3	20	71	0
4-Ethyltoluene	2.492	2.523	-	-1.2	20	81	0
2-Chlorotoluene	2.199	2.236	-	-1.7	20	80	0
1,3,5-Trimethylbenzene	2.194	2.101	-	4.2	20	76	0
1,2,3-Trichloropropane	0.352	0.304	-	13.6	20	73	0
trans-1,4-Dichloro-2-buten	0.143	0.118	-	17.5	20	76	0
4-Chlorotoluene	1.999	1.943	-	2.8	20	79	0
tert-Butylbenzene	1.944	1.842	-	5.2	20	76	0
1,2,4-Trimethylbenzene	2.157	2.062	-	4.4	20	76	0
sec-Butylbenzene	2.774	2.769	-	0.2	20	78	0
p-Isopropyltoluene	2.404	2.355	-	2	20	78	0
1,3-Dichlorobenzene	1.278	1.237	-	3.2	20	77	0
1,4-Dichlorobenzene	1.296	1.23	-	5.1	20	77	0
p-Diethylbenzene	1.431	1.403	-	2	20	79	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA108
 Lab File ID : V08211104A01
 Sample No : WG1567182-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:03
 Init. Calib. Date(s) : 10/05/21 10/05/21
 Init. Calib. Times : 01:04 04:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.145	2.192	-	-2.2	20	80	0
1,2-Dichlorobenzene	1.176	1.108	-	5.8	20	76	0
1,2,4,5-Tetramethylbenzene	2.388	2.069	-	13.4	20	74	0
1,2-Dibromo-3-chloropropan	10	7.319	-	26.8*	20	69	0
1,3,5-Trichlorobenzene	0.935	0.91	-	2.7	20	78	0
Hexachlorobutadiene	0.396	0.375	-	5.3	20	78	0
1,2,4-Trichlorobenzene	0.802	0.666	-	17	20	68	0
Naphthalene	1.416	0.938	-	33.8*	20	56	0
1,2,3-Trichlorobenzene	0.689	0.502	-	27.1*	20	61	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104A02
 Sample No : WG1567116-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:06
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	107	0
Dichlorodifluoromethane	0.29	0.261	-	10	20	96	0
Chloromethane	0.386	0.45	-	-16.6	20	133	-.03
Vinyl chloride	0.321	0.373	-	-16.2	20	123	0
Bromomethane	40	53.612	-	-34*	20	133	0
Chloroethane	0.132	0.176	-	-33.3*	20	159	0
Trichlorofluoromethane	0.418	0.391	-	6.5	20	96	0
Ethyl ether	0.145	0.122	-	15.9	20	92	0
1,1-Dichloroethene	0.241	0.246	-	-2.1	20	106	0
Carbon disulfide	0.896	0.787	-	12.2	20	97	0
Freon-113	0.266	0.257	-	3.4	20	100	0
Acrolein	0.034	0.02*	-	41.2*	20	61	0
Methylene chloride	40	39.182	-	2	20	102	0
Acetone	40	46.598	-	-16.5	20	131	0
trans-1,2-Dichloroethene	0.273	0.278	-	-1.8	20	106	0
Methyl acetate	0.154	0.134	-	13	20	90	0
Methyl tert-butyl ether	0.699	0.585	-	16.3	20	88	0
tert-Butyl alcohol	0.03	0.025*	-	16.7	20	89	-.02
Diisopropyl ether	0.999	1.008	-	-0.9	20	101	0
1,1-Dichloroethane	0.614	0.605	-	1.5	20	105	0
Halothane	0.221	0.222	-	-0.5	20	104	0
Acrylonitrile	0.092	0.075	-	18.5	20	85	0
Ethyl tert-butyl ether	0.898	0.92	-	-2.4	20	104	0
Vinyl acetate	0.61	0.578	-	5.2	20	98	0
cis-1,2-Dichloroethene	0.306	0.301	-	1.6	20	105	0
2,2-Dichloropropane	0.433	0.403	-	6.9	20	99	0
Bromochloromethane	0.141	0.138	-	2.1	20	104	0
Cyclohexane	0.574	0.578	-	-0.7	20	106	0
Chloroform	0.536	0.475	-	11.4	20	100	0
Ethyl acetate	0.229	0.201	-	12.2	20	91	0
Carbon tetrachloride	0.4	0.365	-	8.8	20	93	0
Tetrahydrofuran	0.089	0.076	-	14.6	20	91	0
Dibromofluoromethane	0.305	0.261	-	14.4	20	97	0
1,1,1-Trichloroethane	0.425	0.412	-	3.1	20	102	0
2-Butanone	40	33.132	-	17.2	20	86	0
1,1-Dichloropropene	0.346	0.35	-	-1.2	20	100	0
Benzene	1.017	1.013	-	0.4	20	102	0
tert-Amyl methyl ether	0.635	0.586	-	7.7	20	96	0
1,2-Dichloroethane-d4	0.289	0.24	-	17	20	95	0
1,2-Dichloroethane	0.399	0.355	-	11	20	96	0
Methyl cyclohexane	0.411	0.42	-	-2.2	20	103	0
Trichloroethene	0.28	0.274	-	2.1	20	100	0
Dibromomethane	0.163	0.146	-	10.4	20	96	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104A02
 Sample No : WG1567116-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:06
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.338	0.324	-	4.1	20	100	0
2-Chloroethyl vinyl ether	0.17	0.118	-	30.6*	20	69	0
Bromodichloromethane	0.385	0.353	-	8.3	20	97	0
1,4-Dioxane	0.00221	0.00196*	-	11.3	20	90	0
cis-1,3-Dichloropropene	0.415	0.413	-	0.5	20	97	0
Chlorobenzene-d5	1	1	-	0	20	103	0
Toluene-d8	1.259	1.288	-	-2.3	20	105	0
Toluene	0.836	0.847	-	-1.3	20	101	0
4-Methyl-2-pentanone	0.123	0.111	-	9.8	20	87	0
Tetrachloroethene	0.392	0.417	-	-6.4	20	98	0
trans-1,3-Dichloropropene	0.471	0.472	-	-0.2	20	94	0
Ethyl methacrylate	0.387	0.325	-	16	20	82	0
1,1,2-Trichloroethane	0.234	0.233	-	0.4	20	96	0
Chlorodibromomethane	0.347	0.36	-	-3.7	20	96	0
1,3-Dichloropropane	0.459	0.455	-	0.9	20	95	0
1,2-Dibromoethane	40	35.799	-	10.5	20	90	0
2-Hexanone	0.235	0.194	-	17.4	20	94	0
Chlorobenzene	0.964	0.974	-	-1	20	99	0
Ethylbenzene	1.631	1.631	-	0	20	101	0
1,1,1,2-Tetrachloroethane	0.351	0.353	-	-0.6	20	95	0
p/m Xylene	80	85.268	-	-6.6	20	99	0
o Xylene	0.641	0.623	-	2.8	20	101	0
Styrene	1.017	1.032	-	-1.5	20	100	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
Bromoform	0.444	0.381	-	14.2	20	91	0
Isopropylbenzene	3.164	2.982	-	5.8	20	99	0
4-Bromofluorobenzene	0.926	0.863	-	6.8	20	103	0
Bromobenzene	0.768	0.796	-	-3.6	20	110	0
n-Propylbenzene	3.548	3.531	-	0.5	20	104	0
1,4-Dichlorobutane	1.259	1.043	-	17.2	20	91	0
1,1,2,2-Tetrachloroethane	0.659	0.583	-	11.5	20	96	0
4-Ethyltoluene	3.053	2.865	-	6.2	20	98	0
2-Chlorotoluene	2.126	2.025	-	4.8	20	102	0
1,3,5-Trimethylbenzene	2.596	2.289	-	11.8	20	93	0
1,2,3-Trichloropropane	0.51	0.416	-	18.4	20	90	0
trans-1,4-Dichloro-2-buten	0.236	0.198	-	16.1	20	88	0
4-Chlorotoluene	2.208	2.102	-	4.8	20	102	0
tert-Butylbenzene	2.194	2.156	-	1.7	20	105	0
1,2,4-Trimethylbenzene	2.594	2.306	-	11.1	20	95	0
sec-Butylbenzene	3.441	3.268	-	5	20	100	0
p-Isopropyltoluene	2.789	2.715	-	2.7	20	102	0
1,3-Dichlorobenzene	1.514	1.506	-	0.5	20	106	0
1,4-Dichlorobenzene	1.547	1.51	-	2.4	20	106	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104A02
 Sample No : WG1567116-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 07:06
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.641	1.665	-	-1.5	20	106	0
n-Butylbenzene	2.478	2.416	-	2.5	20	102	0
1,2-Dichlorobenzene	1.427	1.413	-	1	20	107	0
1,2,4,5-Tetramethylbenzene	2.664	2.767	-	-3.9	20	111	0
1,2-Dibromo-3-chloropropan	0.11	0.103	-	6.4	20	101	0
1,3,5-Trichlorobenzene	1.078	1.219	-	-13.1	20	119	0
Hexachlorobutadiene	0.613	0.54	-	11.9	20	93	0
1,2,4-Trichlorobenzene	0.991	1.038	-	-4.7	20	111	0
Naphthalene	2.108	1.969	-	6.6	20	101	0
1,2,3-Trichlorobenzene	0.902	0.9	-	0.2	20	108	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104N01
 Sample No : WG1567587-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 17:59
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	108	0
Dichlorodifluoromethane	0.29	0.29	-	0	20	108	0
Chloromethane	0.386	0.469	-	-21.5*	20	140	-.03
Vinyl chloride	0.321	0.406	-	-26.5*	20	136	0
Bromomethane	40	55.564	-	-38.9*	20	139	0
Chloroethane	0.132	0.184	-	-39.4*	20	168	0
Trichlorofluoromethane	0.418	0.436	-	-4.3	20	109	0
Ethyl ether	0.145	0.119	-	17.9	20	91	0
1,1-Dichloroethene	0.241	0.264	-	-9.5	20	115	0
Carbon disulfide	0.896	0.83	-	7.4	20	103	0
Freon-113	0.266	0.287	-	-7.9	20	113	0
Acrolein	0.034	0.021*	-	38.2*	20	64	0
Methylene chloride	40	38.734	-	3.2	20	102	0
Acetone	40	46.51	-	-16.3	20	132	0
trans-1,2-Dichloroethene	0.273	0.285	-	-4.4	20	110	0
Methyl acetate	0.154	0.124	-	19.5	20	84	0
Methyl tert-butyl ether	0.699	0.559	-	20	20	85	0
tert-Butyl alcohol	0.03	0.022*	-	26.7*	20	79	-.01
Diisopropyl ether	0.999	0.981	-	1.8	20	99	0
1,1-Dichloroethane	0.614	0.609	-	0.8	20	107	0
Halothane	0.221	0.231	-	-4.5	20	109	0
Acrylonitrile	0.092	0.069	-	25*	20	79	0
Ethyl tert-butyl ether	0.898	0.877	-	2.3	20	100	0
Vinyl acetate	0.61	0.509	-	16.6	20	87	0
cis-1,2-Dichloroethene	0.306	0.295	-	3.6	20	104	0
2,2-Dichloropropane	0.433	0.415	-	4.2	20	103	0
Bromochloromethane	0.141	0.134	-	5	20	102	0
Cyclohexane	0.574	0.634	-	-10.5	20	117	0
Chloroform	0.536	0.472	-	11.9	20	100	-.01
Ethyl acetate	0.229	0.18	-	21.4*	20	82	0
Carbon tetrachloride	0.4	0.381	-	4.8	20	99	0
Tetrahydrofuran	0.089	0.068	-	23.6*	20	82	0
Dibromofluoromethane	0.305	0.262	-	14.1	20	99	0
1,1,1-Trichloroethane	0.425	0.425	-	0	20	106	0
2-Butanone	40	34.717	-	13.2	20	91	0
1,1-Dichloropropene	0.346	0.369	-	-6.6	20	107	0
Benzene	1.017	1.007	-	1	20	103	0
tert-Amyl methyl ether	0.635	0.55	-	13.4	20	91	0
1,2-Dichloroethane-d4	0.289	0.236	-	18.3	20	94	0
1,2-Dichloroethane	0.399	0.339	-	15	20	93	0
Methyl cyclohexane	0.411	0.452	-	-10	20	112	0
Trichloroethene	0.28	0.283	-	-1.1	20	104	0
Dibromomethane	0.163	0.138	-	15.3	20	92	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104N01
 Sample No : WG1567587-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 17:59
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.338	0.317	-	6.2	20	99	0
2-Chloroethyl vinyl ether	0.17	0.123	-	27.6*	20	73	0
Bromodichloromethane	0.385	0.341	-	11.4	20	94	0
1,4-Dioxane	0.00221	0.00173*	-	21.7*	20	80	0
cis-1,3-Dichloropropene	0.415	0.397	-	4.3	20	94	0
Chlorobenzene-d5	1	1	-	0	20	103	0
Toluene-d8	1.259	1.296	-	-2.9	20	105	0
Toluene	0.836	0.847	-	-1.3	20	101	0
4-Methyl-2-pentanone	0.123	0.101	-	17.9	20	78	0
Tetrachloroethene	0.392	0.431	-	-9.9	20	102	0
trans-1,3-Dichloropropene	0.471	0.453	-	3.8	20	90	0
Ethyl methacrylate	0.387	0.306	-	20.9*	20	77	0
1,1,2-Trichloroethane	0.234	0.221	-	5.6	20	91	0
Chlorodibromomethane	0.347	0.347	-	0	20	92	0
1,3-Dichloropropane	0.459	0.436	-	5	20	91	0
1,2-Dibromoethane	40	33.9	-	15.3	20	85	0
2-Hexanone	0.235	0.175	-	25.5*	20	84	0
Chlorobenzene	0.964	0.962	-	0.2	20	97	0
Ethylbenzene	1.631	1.654	-	-1.4	20	103	0
1,1,1,2-Tetrachloroethane	0.351	0.345	-	1.7	20	92	0
p/m Xylene	80	85.824	-	-7.3	20	99	0
o Xylene	0.641	0.616	-	3.9	20	100	0
Styrene	1.017	1.019	-	-0.2	20	99	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Bromoform	0.444	0.364	-	18	20	84	0
Isopropylbenzene	3.164	3.132	-	1	20	101	0
4-Bromofluorobenzene	0.926	0.869	-	6.2	20	100	0
Bromobenzene	0.768	0.802	-	-4.4	20	108	0
n-Propylbenzene	3.548	3.67	-	-3.4	20	105	0
1,4-Dichlorobutane	1.259	1	-	20.6*	20	84	0
1,1,2,2-Tetrachloroethane	0.659	0.539	-	18.2	20	86	0
4-Ethyltoluene	3.053	2.981	-	2.4	20	99	0
2-Chlorotoluene	2.126	2.072	-	2.5	20	101	0
1,3,5-Trimethylbenzene	2.596	2.357	-	9.2	20	93	0
1,2,3-Trichloropropane	0.51	0.405	-	20.6*	20	85	0
trans-1,4-Dichloro-2-buten	0.236	0.188	-	20.3*	20	81	0
4-Chlorotoluene	2.208	2.116	-	4.2	20	99	0
tert-Butylbenzene	2.194	2.249	-	-2.5	20	106	0
1,2,4-Trimethylbenzene	2.594	2.368	-	8.7	20	95	0
sec-Butylbenzene	3.441	3.426	-	0.4	20	101	0
p-Isopropyltoluene	2.789	2.844	-	-2	20	103	0
1,3-Dichlorobenzene	1.514	1.524	-	-0.7	20	104	0
1,4-Dichlorobenzene	1.547	1.519	-	1.8	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Instrument ID : VOA104
 Lab File ID : V04211104N01
 Sample No : WG1567587-2
 Channel :

Lab Number : L2159682
 Project Number : 48122
 Calibration Date : 11/04/21 17:59
 Init. Calib. Date(s) : 07/07/21 07/08/21
 Init. Calib. Times : 20:54 00:16

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.641	1.733	-	-5.6	20	107	0
n-Butylbenzene	2.478	2.542	-	-2.6	20	104	0
1,2-Dichlorobenzene	1.427	1.396	-	2.2	20	103	0
1,2,4,5-Tetramethylbenzene	2.664	2.787	-	-4.6	20	109	0
1,2-Dibromo-3-chloropropan	0.11	0.093	-	15.5	20	89	0
1,3,5-Trichlorobenzene	1.078	1.217	-	-12.9	20	115	0
Hexachlorobutadiene	0.613	0.58	-	5.4	20	96	0
1,2,4-Trichlorobenzene	0.991	1.039	-	-4.8	20	108	0
Naphthalene	2.108	1.881	-	10.8	20	94	0
1,2,3-Trichlorobenzene	0.902	0.881	-	2.3	20	103	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	87	-0.01
2 TP	Dichlorodifluoromethane	0.241	0.212	12.0	72	0.00
3 TP	Chloromethane	0.324	0.333	-2.8	87	0.00
4 TC	Vinyl chloride	0.303	0.275	9.2	79	0.00
5 TP	Bromomethane	0.132	0.153	-15.9	110	0.00
6 TP	Chloroethane	0.141	0.179	-27.0#	102	0.00
7 TP	Trichlorofluoromethane	0.326	0.347	-6.4	91	0.00
8 TP	Ethyl ether	0.086	0.094	-9.3	95	0.00
10 TC	1,1-Dichloroethene	0.187	0.201	-7.5	88	0.00
11 TP	Carbon disulfide	0.561	0.584	-4.1	88	0.00
12 TP	Freon-113	0.176	0.201	-14.2	93	0.00
14 TP	Acrolein	0.026	0.013#	50.0#	44#	0.00
15 TP	Methylene chloride	0.206	0.223	-8.3	91	0.00
17 TP	Acetone	0.040	0.044#	-10.0	90	0.00
18 TP	trans-1,2-Dichloroethene	0.209	0.224	-7.2	90	0.00
19 TP	Methyl acetate	0.105	0.104	1.0	90	0.00
20 TP	Methyl tert-butyl ether	0.406	0.425	-4.7	91	0.00
21 TP	tert-Butyl alcohol	0.011	0.011#	0.0	88	-0.02
22 TP	Diisopropyl ether	0.934	0.857	8.2	79	0.00
23 TP	1,1-Dichloroethane	0.477	0.480	-0.6	84	0.00
24 TP	Halothane	0.178	0.171	3.9	82	0.00
25 TP	Acrylonitrile	0.059	0.050	15.3	68	-0.02
26 TP	Ethyl tert-butyl ether	0.683	0.618	9.5	81	0.00
27 TP	Vinyl acetate	0.478	0.424	11.3	82	0.00
28 TP	cis-1,2-Dichloroethene	0.257	0.247	3.9	82	-0.01
29 TP	2,2-Dichloropropane	0.291	0.320	-10.0	93	0.00
30 TP	Bromochloromethane	0.115	0.108	6.1	80	0.00
31 TP	Cyclohexane	0.454	0.416	8.4	78	0.00
32 TC	Chloroform	0.418	0.425	-1.7	85	0.00
33 TP	Ethyl acetate	0.161	0.137	14.9	75	0.00
34 TP	Carbon tetrachloride	* 10.000	8.716	12.8	85	-0.02
35 TP	Tetrahydrofuran	0.059	0.048#	18.6	69	0.00
36 S	Dibromofluoromethane	0.275	0.264	4.0	84	0.00
37 TP	1,1,1-Trichloroethane	0.343	0.339	1.2	84	0.00
39 TP	2-Butanone	0.069	0.058#	15.9	81	0.00
40 TP	1,1-Dichloropropene	0.300	0.274	8.7	79	0.00
41 TP	Benzene	0.936	0.872	6.8	81	0.00
42 TP	tert-Amyl methyl ether	0.462	0.380	17.7	76	-0.01
43 S	1,2-Dichloroethane-d4	0.281	0.276	1.8	85	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.303	0.289	4.6	80	0.00
47 TP	Methyl cyclohexane	0.347	0.311	10.4	78	-0.01
48 TP	Trichloroethene	0.244	0.230	5.7	82	0.00
50 TP	Dibromomethane	0.121	0.108	10.7	76	0.00
51 TC	1,2-Dichloropropane	0.255	0.247	3.1	84	0.00
54 TP	Bromodichloromethane	0.286	0.255	10.8	80	-0.01
57 TP	1,4-Dioxane	0.00097	0.00091#	6.2	88	0.00
58 TP	cis-1,3-Dichloropropene	* 10.000	8.117	18.8	78	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
60 S	Toluene-d8	1.272	1.234	3.0	82	0.00
61 TC	Toluene	0.791	0.736	7.0	78	0.00
62 TP	4-Methyl-2-pentanone	0.073	0.051#	30.1#	62	0.00
63 TP	Tetrachloroethene	0.314	0.300	4.5	77	0.00
65 TP	trans-1,3-Dichloropropene	* 10.000	7.920	20.8#	76	0.00
67 TP	Ethyl methacrylate	* 10.000	7.978	20.2#	72	0.00
68 TP	1,1,2-Trichloroethane	0.174	0.161	7.5	77	0.00
69 TP	Chlorodibromomethane	* 10.000	7.883	21.2#	73	0.00
70 TP	1,3-Dichloropropane	0.366	0.331	9.6	75	0.00
71 TP	1,2-Dibromoethane	0.198	0.177	10.6	74	0.00
72 TP	2-Hexanone	0.129	0.093#	27.9#	65	0.00
73 TP	Chlorobenzene	0.843	0.808	4.2	78	0.00
74 TC	Ethylbenzene	1.446	1.386	4.1	77	0.00
75 TP	1,1,1,2-Tetrachloroethane	* 10.000	8.563	14.4	80	0.00
76 TP	p/m Xylene	0.545	0.535	1.8	77	0.00
77 TP	o Xylene	0.520	0.505	2.9	77	0.00
78 TP	Styrene	0.810	0.844	-4.2	78	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00
80 TP	Bromoform	* 10.000	7.505	24.9#	73	0.00
82 TP	Isopropylbenzene	2.594	2.522	2.8	77	0.00
83 S	4-Bromofluorobenzene	0.917	0.904	1.4	81	0.00
84 TP	Bromobenzene	0.647	0.601	7.1	74	0.00
85 TP	n-Propylbenzene	3.099	3.088	0.4	78	0.00
86 TP	1,4-Dichlorobutane	0.806	0.740	8.2	73	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.421	0.361	14.3	71	0.00
88 TP	4-Ethyltoluene	2.492	2.523	-1.2	81	0.00
89 TP	2-Chlorotoluene	2.199	2.236	-1.7	80	0.00
90 TP	1,3,5-Trimethylbenzene	2.194	2.101	4.2	76	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.352	0.304	13.6	73	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.143	0.118	17.5	76	0.00
93 TP	4-Chlorotoluene	1.999	1.943	2.8	79	0.00
94 TP	tert-Butylbenzene	1.944	1.842	5.2	76	0.00
97 TP	1,2,4-Trimethylbenzene	2.157	2.062	4.4	76	0.00
98 TP	sec-Butylbenzene	2.774	2.769	0.2	78	0.00
99 TP	p-Isopropyltoluene	2.404	2.355	2.0	78	0.00
100 TP	1,3-Dichlorobenzene	1.278	1.237	3.2	77	0.00
101 TP	1,4-Dichlorobenzene	1.296	1.230	5.1	77	0.00
102 TP	p-Diethylbenzene	1.431	1.403	2.0	79	0.00
103 TP	n-Butylbenzene	2.145	2.192	-2.2	80	0.00
104 TP	1,2-Dichlorobenzene	1.176	1.108	5.8	76	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.388	2.069	13.4	74	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	7.319	26.8#	69	0.00
107 TP	1,3,5-Trichlorobenzene	0.935	0.910	2.7	78	0.00
108 TP	Hexachlorobutadiene	0.396	0.375	5.3	78	0.00
109 TP	1,2,4-Trichlorobenzene	0.802	0.666	17.0	68	0.00
110 TP	Naphthalene	1.416	0.938	33.8#	56	0.00
111 TP	1,2,3-Trichlorobenzene	0.689	0.502	27.1#	61	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 8 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.201	96	317596	10.000	ug/L	-0.01
59) Chlorobenzene-d5	8.304	117	234349	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	9.820	152	124409	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	83838	9.591	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.91%		
43) 1,2-Dichloroethane-d4	4.844	65	87780	9.837	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.37%		
60) Toluene-d8	6.941	98	289206	9.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.01%		
83) 4-Bromofluorobenzene	9.143	95	112439	9.857	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.57%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.891	85	67199	8.765	ug/L	100
3) Chloromethane	0.996	50	105819	10.282	ug/L	97
4) Vinyl chloride	1.048	62	87319	9.064	ug/L	98
5) Bromomethane	1.232	94	48552	11.586	ug/L	97
6) Chloroethane	1.310	64	56814	12.718	ug/L	98
7) Trichlorofluoromethane	1.399	101	110363	10.669	ug/L	98
8) Ethyl ether	1.604	74	29937	10.964	ug/L	89
10) 1,1-Dichloroethene	1.730	96	63968	10.745	ug/L	78
11) Carbon disulfide	1.735	76	185556	10.406	ug/L	96
12) Freon-113	1.766	101	63781	11.396	ug/L	96
14) Acrolein	1.976	56	4049	4.938	ug/L	99
15) Methylene chloride	2.175	84	70899	10.843	ug/L	97
17) Acetone	2.223	43	14099	11.052	ug/L	95
18) trans-1,2-Dichloroethene	2.306	96	71217	10.747	ug/L	89
19) Methyl acetate	2.343	43	32994	9.877	ug/L #	94
20) Methyl tert-butyl ether	2.422	73	134891	10.453	ug/L #	88
21) tert-Butyl alcohol	2.574	59	18161M1	52.874	ug/L	
22) Diisopropyl ether	2.810	45	272290	9.177	ug/L	96
23) 1,1-Dichloroethane	2.878	63	152332	10.045	ug/L	99
24) Halothane	3.019	117	54305	9.602	ug/L	98
25) Acrylonitrile	2.941	53	15967	8.523	ug/L	96
26) Ethyl tert-butyl ether	3.219	59	196210	9.048	ug/L	93
27) Vinyl acetate	3.219	43	134660	8.873	ug/L	98
28) cis-1,2-Dichloroethene	3.507	96	78536	9.604	ug/L #	76
29) 2,2-Dichloropropane	3.633	77	101502	10.999	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
30)	Bromochloromethane	3.764	128	34286	9.386	ug/L	#	76
31)	Cyclohexane	3.732	56	132163	9.173	ug/L		91
32)	Chloroform	3.926	83	134839	10.147	ug/L		99
33)	Ethyl acetate	4.178	43	43655	8.560	ug/L	#	93
34)	Carbon tetrachloride	4.037	117	81759	8.716	ug/L		98
35)	Tetrahydrofuran	4.136	42	15214M1	8.054	ug/L		
37)	1,1,1-Trichloroethane	4.141	97	107715	9.897	ug/L	#	98
39)	2-Butanone	4.383	43	18279	8.322	ug/L	#	86
40)	1,1-Dichloropropene	4.330	75	87047	9.144	ug/L		98
41)	Benzene	4.655	78	276961	9.321	ug/L		98
42)	tert-Amyl methyl ether	4.902	73	120819	8.236	ug/L		89
44)	1,2-Dichloroethane	4.928	62	91800	9.525	ug/L		98
47)	Methyl cyclohexane	5.358	83	98919	8.963	ug/L		99
48)	Trichloroethene	5.405	95	73159	9.458	ug/L		97
50)	Dibromomethane	5.872	93	34186	8.917	ug/L		98
51)	1,2-Dichloropropane	5.977	63	78296	9.684	ug/L		93
54)	Bromodichloromethane	6.097	83	81077	8.922	ug/L		97
57)	1,4-Dioxane	6.338	88	14459	471.585	ug/L		96
58)	cis-1,3-Dichloropropene	6.768	75	83092	8.117	ug/L		94
61)	Toluene	6.988	92	172524	9.304	ug/L		96
62)	4-Methyl-2-pentanone	7.424	58	12040	7.007	ug/L	#	70
63)	Tetrachloroethene	7.366	166	70292	9.562	ug/L		92
65)	trans-1,3-Dichloropropene	7.445	75	62285	7.920	ug/L		91
67)	Ethyl methacrylate	7.649	69	40723	7.978	ug/L		99
68)	1,1,2-Trichloroethane	7.581	83	37666	9.218	ug/L		93
69)	Chlorodibromomethane	7.728	129	46441	7.883	ug/L		96
70)	1,3-Dichloropropane	7.801	76	77673	9.062	ug/L		99
71)	1,2-Dibromoethane	7.885	107	41490	8.955	ug/L		98
72)	2-Hexanone	8.152	43	21843	7.234	ug/L		91
73)	Chlorobenzene	8.315	112	189471	9.589	ug/L		91
74)	Ethylbenzene	8.362	91	324915	9.591	ug/L		99
75)	1,1,1,2-Tetrachloroethane	8.378	131	54394	8.563	ug/L		94
76)	p/m Xylene	8.472	106	250629	19.630	ug/L		99
77)	o Xylene	8.761	106	236462	19.413	ug/L		98
78)	Styrene	8.803	104	395583	20.840	ug/L		93
80)	Bromoform	8.808	173	22775	7.505	ug/L		92
82)	Isopropylbenzene	8.976	105	313724	9.722	ug/L		95
84)	Bromobenzene	9.201	156	74823	9.301	ug/L		96
85)	n-Propylbenzene	9.238	91	384219	9.965	ug/L		98
86)	1,4-Dichlorobutane	9.243	55	92093	9.181	ug/L		94
87)	1,1,2,2-Tetrachloroethane	9.295	83	44869	8.563	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-2
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88)	4-Ethyltoluene	9.311	105	313839	10.121	ug/L	97
89)	2-Chlorotoluene	9.322	91	278117	10.165	ug/L	97
90)	1,3,5-Trimethylbenzene	9.369	105	261430	9.576	ug/L	92
91)	1,2,3-Trichloropropane	9.364	75	37813M1	8.630	ug/L	
92)	trans-1,4-Dichloro-2-b...	9.400	53	14711	8.289	ug/L #	74
93)	4-Chlorotoluene	9.426	91	241752	9.721	ug/L	96
94)	tert-Butylbenzene	9.552	119	229197	9.475	ug/L	95
97)	1,2,4-Trimethylbenzene	9.594	105	256498	9.560	ug/L	93
98)	sec-Butylbenzene	9.657	105	344512	9.982	ug/L	99
99)	p-Isopropyltoluene	9.746	119	292993	9.795	ug/L	96
100)	1,3-Dichlorobenzene	9.778	146	153846	9.679	ug/L	99
101)	1,4-Dichlorobenzene	9.830	146	153015	9.487	ug/L	98
102)	p-Diethylbenzene	9.956	119	174515	9.802	ug/L	92
103)	n-Butylbenzene	9.987	91	272704	10.218	ug/L	99
104)	1,2-Dichlorobenzene	10.071	146	137842	9.418	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.417	119	257356	8.662	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.527	155	5209	7.319	ug/L	94
107)	1,3,5-Trichlorobenzene	10.543	180	113207	9.728	ug/L	95
108)	Hexachlorobutadiene	10.889	225	46623	9.469	ug/L	96
109)	1,2,4-Trichlorobenzene	10.905	180	82851	8.302	ug/L	97
110)	Naphthalene	11.083	128	116685	6.623	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	62491	7.288	ug/L	99

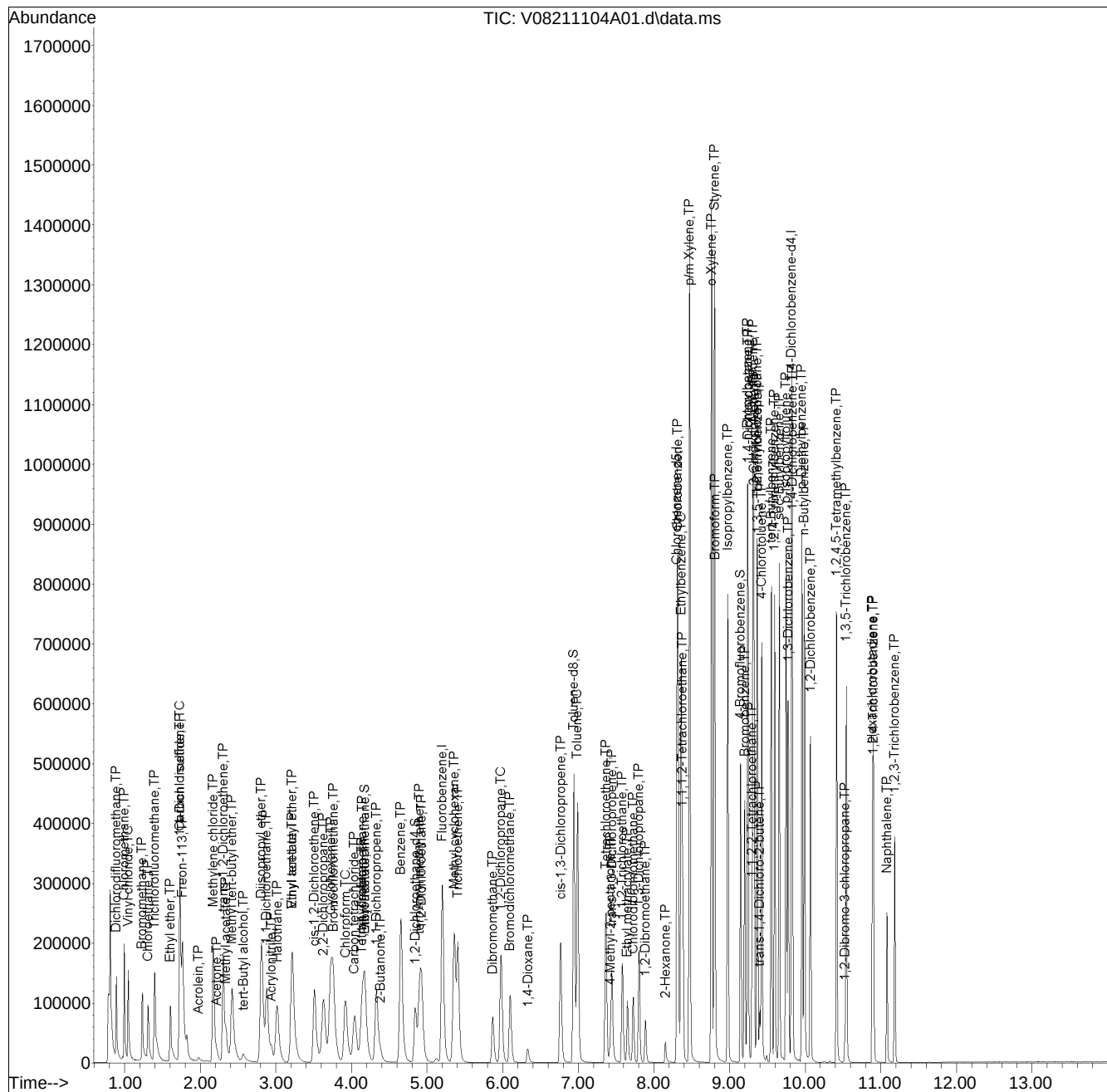
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
Data File : V08211104A01.d
Acq On : 4 Nov 2021 7:03 am
Operator : VOA108:PD
Sample : WG1567182-2
Misc : WG1567182,ICAL18356
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
Quant Method : I:\VOLATILES\V0A108\2021\211104A\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:31:08 2021
Response via : Initial Calibration

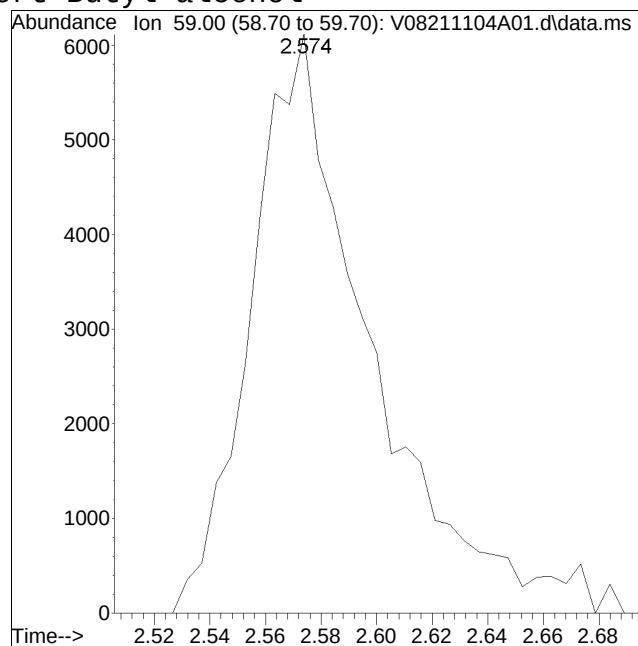
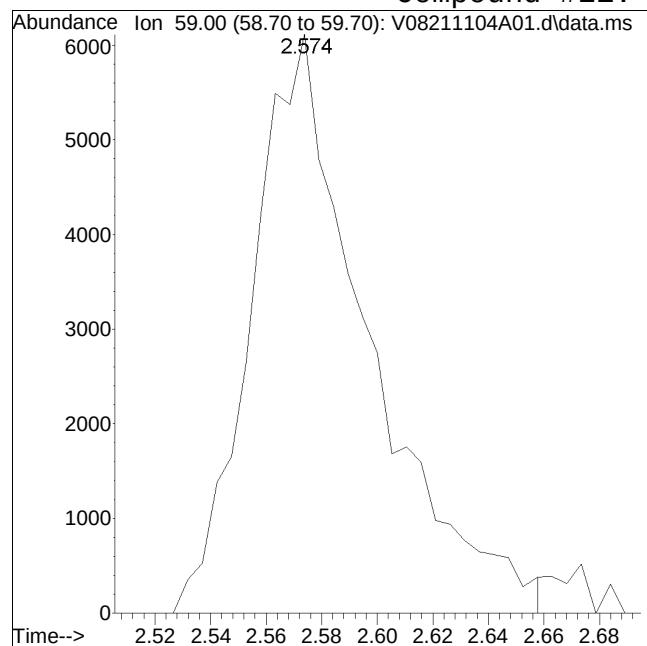
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A01.d Operator : VOA108:PD
Date Inj'd : 11/4/2021 7:03 am Instrument : VOA 108
Sample : WG1567182-2 Quant Date : 11/4/2021 7:50 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 17778

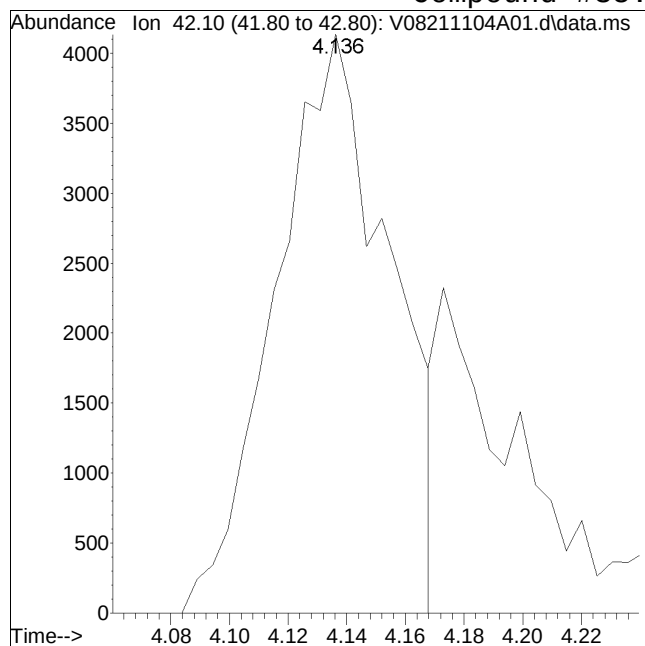
Manual Peak Response = 18161 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

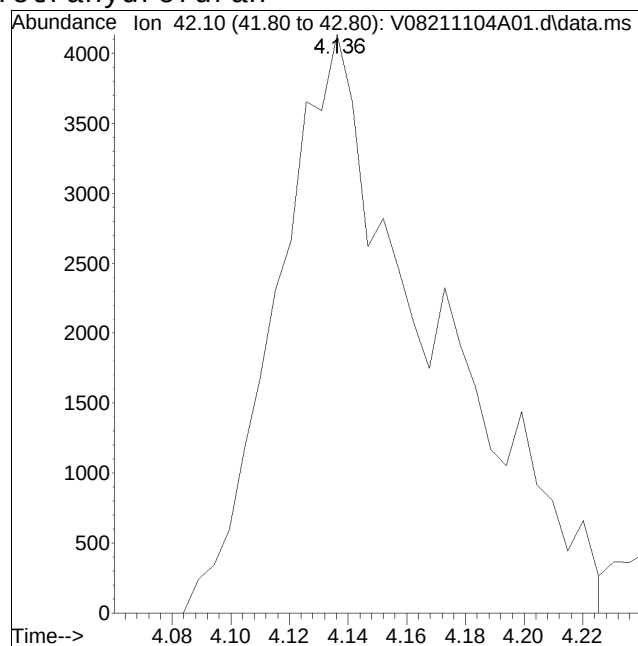
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A01.d Operator : VOA108:PD
Date Inj'd : 11/4/2021 7:03 am Instrument : VOA 108
Sample : WG1567182-2 Quant Date : 11/4/2021 7:50 am

Compound #35: Tetrahydrofuran



Original Peak Response = 11248

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

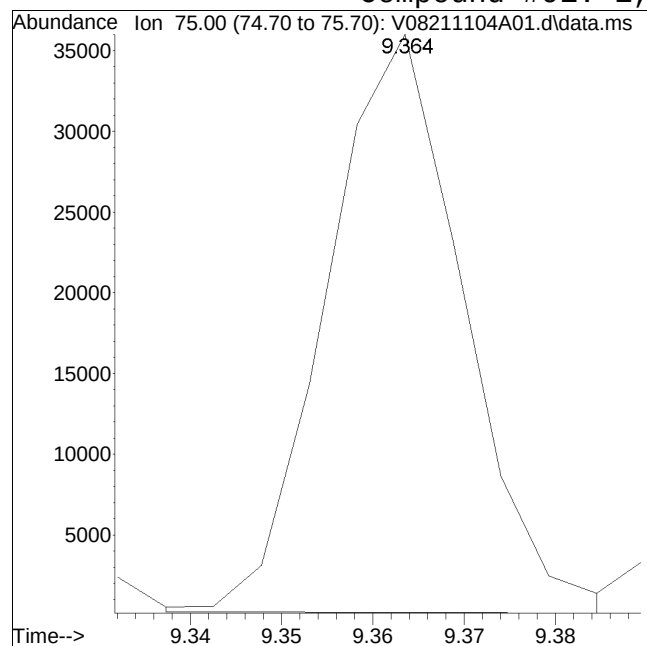


Manual Peak Response = 15214 M1

Manual Integration Report

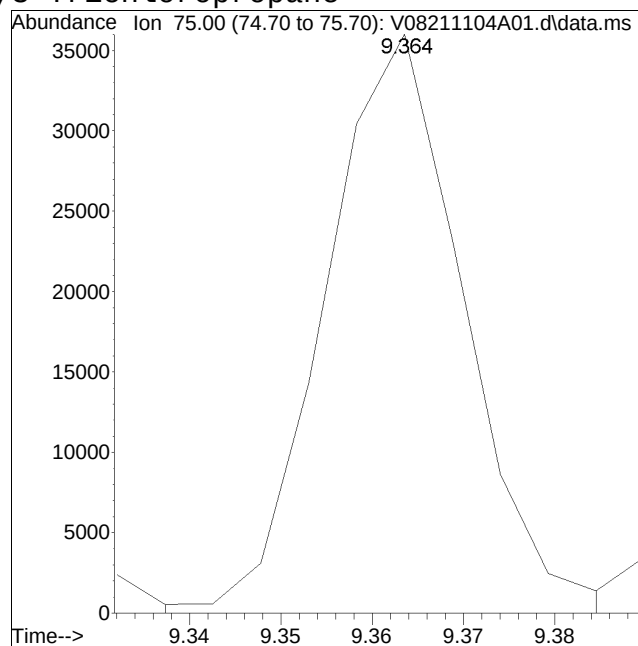
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A01.d Operator : VOA108:PD
Date Inj'd : 11/4/2021 7:03 am Instrument : VOA 108
Sample : WG1567182-2 Quant Date : 11/4/2021 7:50 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 37243

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 37813 M1

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00
2 TP	Dichlorodifluoromethane	0.290	0.261	10.0	96	0.00
3 TP	Chloromethane	0.386	0.450	-16.6	133	-0.03
4 TC	Vinyl chloride	0.321	0.373	-16.2	123	0.00
5 TP	Bromomethane	* 40.000	53.612	-34.0#	133	0.00
6 TP	Chloroethane	0.132	0.176	-33.3#	159	0.00
7 TP	Trichlorofluoromethane	0.418	0.391	6.5	96	0.00
8 TP	Ethyl ether	0.145	0.122	15.9	92	0.00
10 TC	1,1-Dichloroethene	0.241	0.246	-2.1	106	0.00
11 TP	Carbon disulfide	0.896	0.787	12.2	97	0.00
12 TP	Freon-113	0.266	0.257	3.4	100	0.00
14 TP	Acrolein	0.034	0.020#	41.2#	61	0.00
15 TP	Methylene chloride	* 40.000	39.182	2.0	102	0.00
17 TP	Acetone	* 40.000	46.598	-16.5	131	0.00
18 TP	trans-1,2-Dichloroethene	0.273	0.278	-1.8	106	0.00
19 TP	Methyl acetate	0.154	0.134	13.0	90	0.00
20 TP	Methyl tert-butyl ether	0.699	0.585	16.3	88	0.00
21 TP	tert-Butyl alcohol	0.030	0.025#	16.7	89	-0.02
22 TP	Diisopropyl ether	0.999	1.008	-0.9	101	0.00
23 TP	1,1-Dichloroethane	0.614	0.605	1.5	105	0.00
24 TP	Halothane	0.221	0.222	-0.5	104	0.00
25 TP	Acrylonitrile	0.092	0.075	18.5	85	0.00
26 TP	Ethyl tert-butyl ether	0.898	0.920	-2.4	104	0.00
27 TP	Vinyl acetate	0.610	0.578	5.2	98	0.00
28 TP	cis-1,2-Dichloroethene	0.306	0.301	1.6	105	0.00
29 TP	2,2-Dichloropropane	0.433	0.403	6.9	99	0.00
30 TP	Bromochloromethane	0.141	0.138	2.1	104	0.00
31 TP	Cyclohexane	0.574	0.578	-0.7	106	0.00
32 TC	Chloroform	0.536	0.475	11.4	100	0.00
33 TP	Ethyl acetate	0.229	0.201	12.2	91	0.00
34 TP	Carbon tetrachloride	0.400	0.365	8.8	93	0.00
35 TP	Tetrahydrofuran	0.089	0.076	14.6	91	0.00
36 S	Dibromofluoromethane	0.305	0.261	14.4	97	0.00
37 TP	1,1,1-Trichloroethane	0.425	0.412	3.1	102	0.00
39 TP	2-Butanone	* 40.000	33.132	17.2	86	0.00
40 TP	1,1-Dichloropropene	0.346	0.350	-1.2	100	0.00
41 TP	Benzene	1.017	1.013	0.4	102	0.00
42 TP	tert-Amyl methyl ether	0.635	0.586	7.7	96	0.00
43 S	1,2-Dichloroethane-d4	0.289	0.240	17.0	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116, ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.399	0.355	11.0	96	0.00
47 TP	Methyl cyclohexane	0.411	0.420	-2.2	103	0.00
48 TP	Trichloroethene	0.280	0.274	2.1	100	0.00
50 TP	Dibromomethane	0.163	0.146	10.4	96	0.00
51 TC	1,2-Dichloropropane	0.338	0.324	4.1	100	0.00
53 TP	2-Chloroethyl vinyl ether	0.170	0.118	30.6#	69	0.00
54 TP	Bromodichloromethane	0.385	0.353	8.3	97	0.00
57 TP	1,4-Dioxane	0.00221	0.00196#	11.3	90	0.00
58 TP	cis-1,3-Dichloropropene	0.415	0.413	0.5	97	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
60 S	Toluene-d8	1.259	1.288	-2.3	105	0.00
61 TC	Toluene	0.836	0.847	-1.3	101	0.00
62 TP	4-Methyl-2-pentanone	0.123	0.111	9.8	87	0.00
63 TP	Tetrachloroethene	0.392	0.417	-6.4	98	0.00
65 TP	trans-1,3-Dichloropropene	0.471	0.472	-0.2	94	0.00
67 TP	Ethyl methacrylate	0.387	0.325	16.0	82	0.00
68 TP	1,1,2-Trichloroethane	0.234	0.233	0.4	96	0.00
69 TP	Chlorodibromomethane	0.347	0.360	-3.7	96	0.00
70 TP	1,3-Dichloropropane	0.459	0.455	0.9	95	0.00
71 TP	1,2-Dibromoethane	* 40.000	35.799	10.5	90	0.00
72 TP	2-Hexanone	0.235	0.194	17.4	94	0.00
73 TP	Chlorobenzene	0.964	0.974	-1.0	99	0.00
74 TC	Ethylbenzene	1.631	1.631	0.0	101	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.351	0.353	-0.6	95	0.00
76 TP	p/m Xylene	* 80.000	85.268	-6.6	99	0.00
77 TP	o Xylene	0.641	0.623	2.8	101	0.00
78 TP	Styrene	1.017	1.032	-1.5	100	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
80 TP	Bromoform	0.444	0.381	14.2	91	0.00
82 TP	Isopropylbenzene	3.164	2.982	5.8	99	0.00
83 S	4-Bromofluorobenzene	0.926	0.863	6.8	103	0.00
84 TP	Bromobenzene	0.768	0.796	-3.6	110	0.00
85 TP	n-Propylbenzene	3.548	3.531	0.5	104	0.00
86 TP	1,4-Dichlorobutane	1.259	1.043	17.2	91	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.659	0.583	11.5	96	0.00
88 TP	4-Ethyltoluene	3.053	2.865	6.2	98	0.00
89 TP	2-Chlorotoluene	2.126	2.025	4.8	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.596	2.289	11.8	93	0.00
91 TP	1,2,3-Trichloropropane	0.510	0.416	18.4	90	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.236	0.198	16.1	88	0.00
93 TP	4-Chlorotoluene	2.208	2.102	4.8	102	0.00
94 TP	tert-Butylbenzene	2.194	2.156	1.7	105	0.00
97 TP	1,2,4-Trimethylbenzene	2.594	2.306	11.1	95	0.00
98 TP	sec-Butylbenzene	3.441	3.268	5.0	100	0.00
99 TP	p-Isopropyltoluene	2.789	2.715	2.7	102	0.00
100 TP	1,3-Dichlorobenzene	1.514	1.506	0.5	106	0.00
101 TP	1,4-Dichlorobenzene	1.547	1.510	2.4	106	0.00
102 TP	p-Diethylbenzene	1.641	1.665	-1.5	106	0.00
103 TP	n-Butylbenzene	2.478	2.416	2.5	102	0.00
104 TP	1,2-Dichlorobenzene	1.427	1.413	1.0	107	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.664	2.767	-3.9	111	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.110	0.103	6.4	101	0.00
107 TP	1,3,5-Trichlorobenzene	1.078	1.219	-13.1	119	0.00
108 TP	Hexachlorobutadiene	0.613	0.540	11.9	93	0.00
109 TP	1,2,4-Trichlorobenzene	0.991	1.038	-4.7	111	0.00
110 TP	Naphthalene	2.108	1.969	6.6	101	0.00
111 TP	1,2,3-Trichlorobenzene	0.902	0.900	0.2	108	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	263077	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.058	117	187330	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.852	152	102658	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68741	17.154	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	85.77%	
43) 1,2-Dichloroethane-d4	5.309	65	63231	16.645	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	83.22%	
60) Toluene-d8	7.238	98	241273	20.455	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.27%	
83) 4-Bromofluorobenzene	10.599	95	88563	18.627	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.13%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	137336	35.949	ug/L	98
3) Chloromethane	1.675	50	236829	46.585	ug/L	99
4) Vinyl chloride	1.723	62	196137	46.478	ug/L	97
5) Bromomethane	2.000	94	100473	53.612	ug/L	98
6) Chloroethane	2.105	64	92729	53.234	ug/L	93
7) Trichlorofluoromethane	2.226	101	205557	37.398	ug/L	100
8) Ethyl ether	2.488	74	64351	33.740	ug/L	83
10) 1,1-Dichloroethene	2.672	96	129349	40.732	ug/L	90
11) Carbon disulfide	2.698	76	413990	35.111	ug/L	99
12) Freon-113	2.703	101	135393	38.633	ug/L	89
14) Acrolein	2.970	56	10429	23.524	ug/L	99
15) Methylene chloride	3.185	84	147028	39.182	ug/L	83
17) Acetone	3.227	43	35546	46.598	ug/L	92
18) trans-1,2-Dichloroethene	3.327	96	146244	40.710	ug/L	91
19) Methyl acetate	3.337	43	70509	34.917	ug/L	95
20) Methyl tert-butyl ether	3.406	73	307785	33.455	ug/L	92
21) tert-Butyl alcohol	3.500	59	64843	165.341	ug/L	96
22) Diisopropyl ether	3.741	45	530445	40.371	ug/L	95
23) 1,1-Dichloroethane	3.877	63	318221	39.394	ug/L	98
24) Halothane	3.935	117	116673	40.058	ug/L	99
25) Acrylonitrile	3.935	53	39216	32.393	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.071	59	484138	40.990	ug/L	95
27) Vinyl acetate	4.098	43	304118	37.923	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	158529	39.370	ug/L	90
29) 2,2-Dichloropropane	4.465	77	212010	37.255	ug/L	95
30) Bromochloromethane	4.559	128	72457	39.072	ug/L #	85
31) Cyclohexane	4.543	56	304320	40.308	ug/L	85
32) Chloroform	4.632	83	249972	35.431	ug/L	97
33) Ethyl acetate	4.737	43	105930	35.237	ug/L	97
34) Carbon tetrachloride	4.748	117	192150	36.499	ug/L	99
35) Tetrahydrofuran	4.769	42	39894	33.893	ug/L #	88
37) 1,1,1-Trichloroethane	4.811	97	216877	38.782	ug/L	98
39) 2-Butanone	4.916	43	47447	33.132	ug/L	96
40) 1,1-Dichloropropene	4.931	75	184176	40.456	ug/L	100
41) Benzene	5.167	78	533067	39.863	ug/L	96
42) tert-Amyl methyl ether	5.272	73	308504	36.943	ug/L	98
44) 1,2-Dichloroethane	5.377	62	186944	35.589	ug/L	100
47) Methyl cyclohexane	5.723	83	221050	40.912	ug/L	82
48) Trichloroethene	5.754	95	144167	39.174	ug/L	99
50) Dibromomethane	6.190	93	77036	35.985	ug/L	98
51) 1,2-Dichloropropane	6.284	63	170486	38.334	ug/L	95
53) 2-Chloroethyl vinyl ether	6.981	63	62201	27.788	ug/L	94
54) Bromodichloromethane	6.363	83	185715	36.663	ug/L	99
57) 1,4-Dioxane	6.572	88	51509	1770.186	ug/L #	81
58) cis-1,3-Dichloropropene	7.039	75	217330	39.786	ug/L	96
61) Toluene	7.291	92	317435	40.515	ug/L	100
62) 4-Methyl-2-pentanone	7.736	58	41754	36.248	ug/L	98
63) Tetrachloroethene	7.726	166	156259	42.579	ug/L	98
65) trans-1,3-Dichloropropene	7.789	75	176955	40.093	ug/L	97
67) Ethyl methacrylate	7.972	69	121837	33.619	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	87258	39.879	ug/L	99
69) Chlorodibromomethane	8.171	129	134760	41.451	ug/L	99
70) 1,3-Dichloropropane	8.282	76	170363	39.654	ug/L	99
71) 1,2-Dibromoethane	8.439	107	105161	35.799	ug/L	100
72) 2-Hexanone	8.738	43	72765	33.028	ug/L	98
73) Chlorobenzene	9.079	112	364900	40.407	ug/L	100
74) Ethylbenzene	9.115	91	610891	39.995	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.162	131	132364	40.244	ug/L	99
76) p/m Xylene	9.304	106	480173	85.268	ug/L	99
77) o Xylene	9.844	106	466474	77.678	ug/L	99
78) Styrene	9.923	104	773557	81.205	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116, ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.949	173	78256	34.302	ug/L	100
82)	Isopropylbenzene	10.253	105	612288	37.706	ug/L	99
84)	Bromobenzene	10.709	156	163511	41.475	ug/L	99
85)	n-Propylbenzene	10.756	91	724911	39.805	ug/L	100
86)	1,4-Dichlorobutane	10.788	55	214198	33.153	ug/L	97
87)	1,1,2,2-Tetrachloroethane	10.872	83	119763	35.431	ug/L	99
88)	4-Ethyltoluene	10.893	105	588258	37.540	ug/L	99
89)	2-Chlorotoluene	10.929	91	415720	38.091	ug/L	98
90)	1,3,5-Trimethylbenzene	10.997	105	469927	35.273	ug/L	98
91)	1,2,3-Trichloropropane	11.008	75	85501	32.674	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.071	53	40718	33.671	ug/L	98
93)	4-Chlorotoluene	11.123	91	431524	38.073	ug/L	99
94)	tert-Butylbenzene	11.344	119	442619	39.297	ug/L	99
97)	1,2,4-Trimethylbenzene	11.427	105	473456	35.564	ug/L	99
98)	sec-Butylbenzene	11.538	105	670967	37.988	ug/L	99
99)	p-Isopropyltoluene	11.700	119	557438	38.944	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	309281	39.811	ug/L	100
101)	1,4-Dichlorobenzene	11.868	146	310018	39.054	ug/L	98
102)	p-Diethylbenzene	12.088	119	341857	40.597	ug/L	99
103)	n-Butylbenzene	12.146	91	496120	39.013	ug/L	98
104)	1,2-Dichlorobenzene	12.298	146	290202	39.610	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	568180	41.551	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	21171	37.587	ug/L	100
107)	1,3,5-Trichlorobenzene	13.121	180	250327	45.237	ug/L	99
108)	Hexachlorobutadiene	13.698	225	110947	35.287	ug/L	100
109)	1,2,4-Trichlorobenzene	13.724	180	213164	41.926	ug/L	99
110)	Naphthalene	14.017	128	404199	37.359	ug/L	100
111)	1,2,3-Trichlorobenzene	14.185	180	184732	39.894	ug/L	99

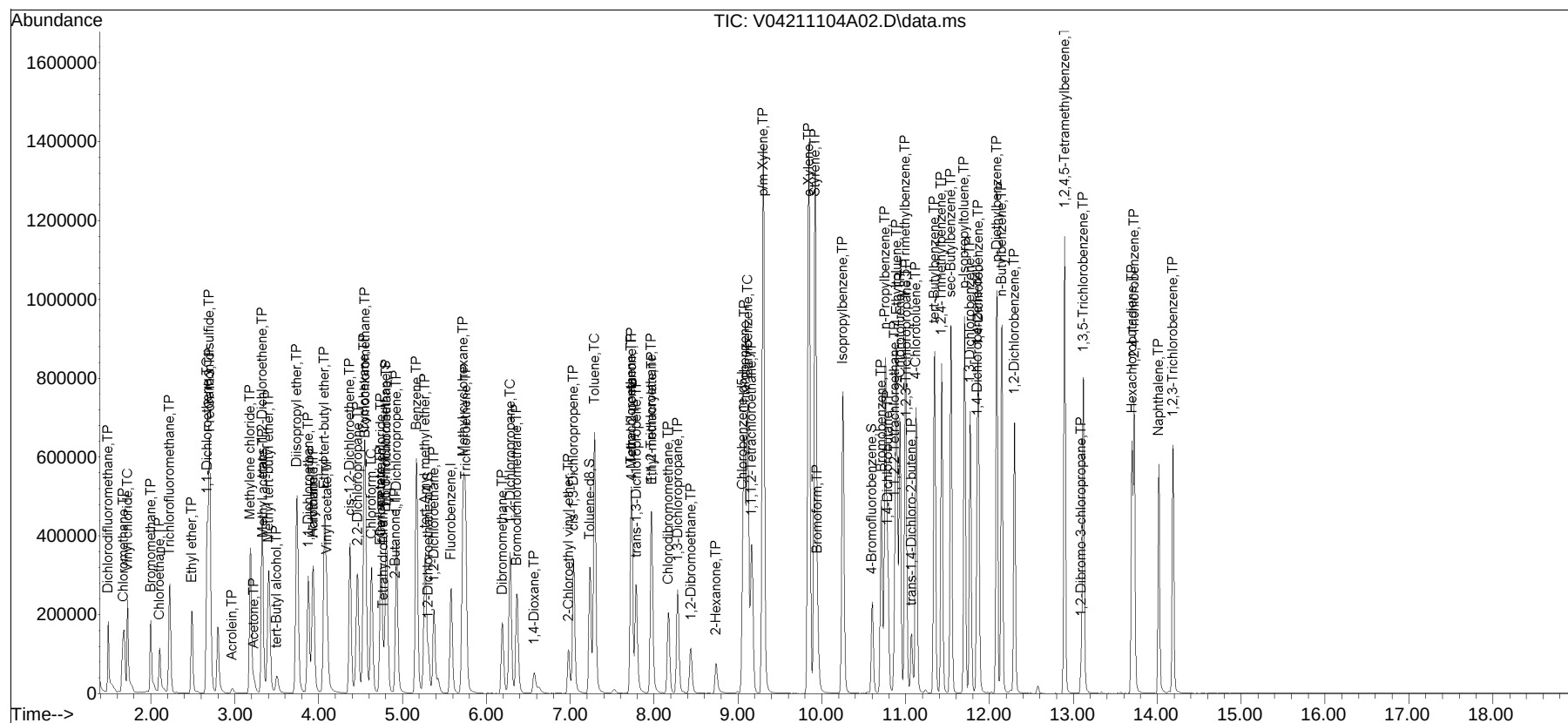
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-2
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox4A\V04211104A02.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2021\2Q	Method	: V104_210707N_8260.m
Data File	: V04211104A02.D	Operator	: VOA104:MV
Date Inj'd	: 11/4/2021 7:06 am	Instrument	: VOA104
Sample	: WG1567116-2	Quant Date	: 11/4/2021 7:36 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	108	0.00
2 TP	Dichlorodifluoromethane	0.290	0.290	0.0	108	0.00
3 TP	Chloromethane	0.386	0.469	-21.5#	140	-0.03
4 TC	Vinyl chloride	0.321	0.406	-26.5#	136	0.00
5 TP	Bromomethane	* 40.000	55.564	-38.9#	139	0.00
6 TP	Chloroethane	0.132	0.184	-39.4#	168	0.00
7 TP	Trichlorofluoromethane	0.418	0.436	-4.3	109	0.00
8 TP	Ethyl ether	0.145	0.119	17.9	91	0.00
10 TC	1,1-Dichloroethene	0.241	0.264	-9.5	115	0.00
11 TP	Carbon disulfide	0.896	0.830	7.4	103	0.00
12 TP	Freon-113	0.266	0.287	-7.9	113	0.00
14 TP	Acrolein	0.034	0.021#	38.2#	64	0.00
15 TP	Methylene chloride	* 40.000	38.734	3.2	102	0.00
17 TP	Acetone	* 40.000	46.510	-16.3	132	0.00
18 TP	trans-1,2-Dichloroethene	0.273	0.285	-4.4	110	0.00
19 TP	Methyl acetate	0.154	0.124	19.5	84	0.00
20 TP	Methyl tert-butyl ether	0.699	0.559	20.0#	85	0.00
21 TP	tert-Butyl alcohol	0.030	0.022#	26.7#	79	-0.01
22 TP	Diisopropyl ether	0.999	0.981	1.8	99	0.00
23 TP	1,1-Dichloroethane	0.614	0.609	0.8	107	0.00
24 TP	Halothane	0.221	0.231	-4.5	109	0.00
25 TP	Acrylonitrile	0.092	0.069	25.0#	79	0.00
26 TP	Ethyl tert-butyl ether	0.898	0.877	2.3	100	0.00
27 TP	Vinyl acetate	0.610	0.509	16.6	87	0.00
28 TP	cis-1,2-Dichloroethene	0.306	0.295	3.6	104	0.00
29 TP	2,2-Dichloropropane	0.433	0.415	4.2	103	0.00
30 TP	Bromochloromethane	0.141	0.134	5.0	102	0.00
31 TP	Cyclohexane	0.574	0.634	-10.5	117	0.00
32 TC	Chloroform	0.536	0.472	11.9	100	-0.01
33 TP	Ethyl acetate	0.229	0.180	21.4#	82	0.00
34 TP	Carbon tetrachloride	0.400	0.381	4.8	99	0.00
35 TP	Tetrahydrofuran	0.089	0.068	23.6#	82	0.00
36 S	Dibromofluoromethane	0.305	0.262	14.1	99	0.00
37 TP	1,1,1-Trichloroethane	0.425	0.425	0.0	106	0.00
39 TP	2-Butanone	* 40.000	34.717	13.2	91	0.00
40 TP	1,1-Dichloropropene	0.346	0.369	-6.6	107	0.00
41 TP	Benzene	1.017	1.007	1.0	103	0.00
42 TP	tert-Amyl methyl ether	0.635	0.550	13.4	91	0.00
43 S	1,2-Dichloroethane-d4	0.289	0.236	18.3	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.399	0.339	15.0	93	0.00
47 TP	Methyl cyclohexane	0.411	0.452	-10.0	112	0.00
48 TP	Trichloroethene	0.280	0.283	-1.1	104	0.00
50 TP	Dibromomethane	0.163	0.138	15.3	92	0.00
51 TC	1,2-Dichloropropane	0.338	0.317	6.2	99	0.00
53 TP	2-Chloroethyl vinyl ether	0.170	0.123	27.6#	73	0.00
54 TP	Bromodichloromethane	0.385	0.341	11.4	94	0.00
57 TP	1,4-Dioxane	0.00221	0.00173#	21.7#	80	0.00
58 TP	cis-1,3-Dichloropropene	0.415	0.397	4.3	94	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
60 S	Toluene-d8	1.259	1.296	-2.9	105	0.00
61 TC	Toluene	0.836	0.847	-1.3	101	0.00
62 TP	4-Methyl-2-pentanone	0.123	0.101	17.9	78	0.00
63 TP	Tetrachloroethene	0.392	0.431	-9.9	102	0.00
65 TP	trans-1,3-Dichloropropene	0.471	0.453	3.8	90	0.00
67 TP	Ethyl methacrylate	0.387	0.306	20.9#	77	0.00
68 TP	1,1,2-Trichloroethane	0.234	0.221	5.6	91	0.00
69 TP	Chlorodibromomethane	0.347	0.347	0.0	92	0.00
70 TP	1,3-Dichloropropane	0.459	0.436	5.0	91	0.00
71 TP	1,2-Dibromoethane	* 40.000	33.900	15.3	85	0.00
72 TP	2-Hexanone	0.235	0.175	25.5#	84	0.00
73 TP	Chlorobenzene	0.964	0.962	0.2	97	0.00
74 TC	Ethylbenzene	1.631	1.654	-1.4	103	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.351	0.345	1.7	92	0.00
76 TP	p/m Xylene	* 80.000	85.824	-7.3	99	0.00
77 TP	o Xylene	0.641	0.616	3.9	100	0.00
78 TP	Styrene	1.017	1.019	-0.2	99	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
80 TP	Bromoform	0.444	0.364	18.0	84	0.00
82 TP	Isopropylbenzene	3.164	3.132	1.0	101	0.00
83 S	4-Bromofluorobenzene	0.926	0.869	6.2	100	0.00
84 TP	Bromobenzene	0.768	0.802	-4.4	108	0.00
85 TP	n-Propylbenzene	3.548	3.670	-3.4	105	0.00
86 TP	1,4-Dichlorobutane	1.259	1.000	20.6#	84	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.659	0.539	18.2	86	0.00
88 TP	4-Ethyltoluene	3.053	2.981	2.4	99	0.00
89 TP	2-Chlorotoluene	2.126	2.072	2.5	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.596	2.357	9.2	93	0.00
91 TP	1,2,3-Trichloropropane	0.510	0.405	20.6#	85	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.236	0.188	20.3#	81	0.00
93 TP	4-Chlorotoluene	2.208	2.116	4.2	99	0.00
94 TP	tert-Butylbenzene	2.194	2.249	-2.5	106	0.00
97 TP	1,2,4-Trimethylbenzene	2.594	2.368	8.7	95	0.00
98 TP	sec-Butylbenzene	3.441	3.426	0.4	101	0.00
99 TP	p-Isopropyltoluene	2.789	2.844	-2.0	103	0.00
100 TP	1,3-Dichlorobenzene	1.514	1.524	-0.7	104	0.00
101 TP	1,4-Dichlorobenzene	1.547	1.519	1.8	103	0.00
102 TP	p-Diethylbenzene	1.641	1.733	-5.6	107	0.00
103 TP	n-Butylbenzene	2.478	2.542	-2.6	104	0.00
104 TP	1,2-Dichlorobenzene	1.427	1.396	2.2	103	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.664	2.787	-4.6	109	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.110	0.093	15.5	89	0.00
107 TP	1,3,5-Trichlorobenzene	1.078	1.217	-12.9	115	0.00
108 TP	Hexachlorobutadiene	0.613	0.580	5.4	96	0.00
109 TP	1,2,4-Trichlorobenzene	0.991	1.039	-4.8	108	0.00
110 TP	Naphthalene	2.108	1.881	10.8	94	0.00
111 TP	1,2,3-Trichlorobenzene	0.902	0.881	2.3	103	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 3 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.576	96	265810	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.057	117	186983	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.852	152	99430	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	69695	17.213	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	86.06%	
43) 1,2-Dichloroethane-d4	5.309	65	62644	16.321	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	81.61%	
60) Toluene-d8	7.233	98	242393	20.588	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.94%	
83) 4-Bromofluorobenzene	10.599	95	86419	18.767	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.84%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	154158	39.938	ug/L	98
3) Chloromethane	1.675	50	249572	48.587	ug/L	99
4) Vinyl chloride	1.722	62	215651	50.577	ug/L	96
5) Bromomethane	1.995	94	105098	55.564	ug/L	97
6) Chloroethane	2.105	64	97820	55.579	ug/L	92
7) Trichlorofluoromethane	2.226	101	231876	41.753	ug/L	100
8) Ethyl ether	2.488	74	63288	32.842	ug/L	85
10) 1,1-Dichloroethene	2.671	96	140426	43.766	ug/L	91
11) Carbon disulfide	2.698	76	441087	37.024	ug/L	99
12) Freon-113	2.703	101	152439	43.049	ug/L	96
14) Acrolein	2.970	56	10912M1	24.361	ug/L	
15) Methylene chloride	3.185	84	146986	38.734	ug/L	83
17) Acetone	3.227	43	35851M4	46.510	ug/L	
18) trans-1,2-Dichloroethene	3.322	96	151366	41.702	ug/L	90
19) Methyl acetate	3.332	43	65727	32.214	ug/L	94
20) Methyl tert-butyl ether	3.406	73	297048	31.956	ug/L	94
21) tert-Butyl alcohol	3.505	59	57494	145.095	ug/L	96
22) Diisopropyl ether	3.741	45	521683	39.296	ug/L	95
23) 1,1-Dichloroethane	3.872	63	323828	39.676	ug/L	99
24) Halothane	3.930	117	122852	41.745	ug/L	98
25) Acrylonitrile	3.935	53	36532	29.866	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587, ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.071	59	466476	39.089	ug/L	96
27) Vinyl acetate	4.098	43	270659	33.403	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	156843	38.551	ug/L	89
29) 2,2-Dichloropropane	4.459	77	220673	38.379	ug/L	96
30) Bromochloromethane	4.559	128	71374	38.093	ug/L	86
31) Cyclohexane	4.543	56	337136	44.195	ug/L	85
32) Chloroform	4.627	83	251044	35.217	ug/L	97
33) Ethyl acetate	4.732	43	95779	31.533	ug/L	98
34) Carbon tetrachloride	4.742	117	202763	38.119	ug/L	100
35) Tetrahydrofuran	4.769	42	35931	30.212	ug/L	# 87
37) 1,1,1-Trichloroethane	4.811	97	225805	39.963	ug/L	98
39) 2-Butanone	4.915	43	50068M1	34.717	ug/L	
40) 1,1-Dichloropropene	4.926	75	196209	42.656	ug/L	99
41) Benzene	5.167	78	535422	39.627	ug/L	95
42) tert-Amyl methyl ether	5.267	73	292293	34.642	ug/L	98
44) 1,2-Dichloroethane	5.377	62	180035	33.921	ug/L	98
47) Methyl cyclohexane	5.723	83	240511	44.057	ug/L	82
48) Trichloroethene	5.749	95	150424	40.454	ug/L	99
50) Dibromomethane	6.190	93	73238	33.859	ug/L	97
51) 1,2-Dichloropropane	6.284	63	168765	37.556	ug/L	95
53) 2-Chloroethyl vinyl ether	6.976	63	65607	29.008	ug/L	96
54) Bromodichloromethane	6.363	83	181548	35.472	ug/L	100
57) 1,4-Dioxane	6.572	88	45997	1564.504	ug/L	# 82
58) cis-1,3-Dichloropropene	7.039	75	211003	38.231	ug/L	96
61) Toluene	7.291	92	316844	40.514	ug/L	100
62) 4-Methyl-2-pentanone	7.731	58	37797	32.874	ug/L	96
63) Tetrachloroethene	7.726	166	161225	44.014	ug/L	98
65) trans-1,3-Dichloropropene	7.783	75	169268	38.423	ug/L	97
67) Ethyl methacrylate	7.972	69	114263	31.587	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	82812	37.917	ug/L	98
69) Chlorodibromomethane	8.171	129	129825	40.007	ug/L	99
70) 1,3-Dichloropropane	8.282	76	163140	38.043	ug/L	100
71) 1,2-Dibromoethane	8.434	107	99359	33.900	ug/L	100
72) 2-Hexanone	8.738	43	65586	29.824	ug/L	96
73) Chlorobenzene	9.078	112	359893	39.926	ug/L	100
74) Ethylbenzene	9.115	91	618359	40.559	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.162	131	128882	39.258	ug/L	100
76) p/m Xylene	9.299	106	482382	85.824	ug/L	99
77) o Xylene	9.844	106	460578	76.839	ug/L	98
78) Styrene	9.917	104	762382	80.181	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	9.949	173	72357	32.746	ug/L	100
82)	Isopropylbenzene	10.253	105	622866	39.603	ug/L	99
84)	Bromobenzene	10.709	156	159515	41.775	ug/L	98
85)	n-Propylbenzene	10.756	91	729846	41.377	ug/L	100
86)	1,4-Dichlorobutane	10.788	55	198897	31.784	ug/L	97
87)	1,1,2,2-Tetrachloroethane	10.872	83	107157	32.731	ug/L	99
88)	4-Ethyltoluene	10.893	105	592854	39.061	ug/L	100
89)	2-Chlorotoluene	10.929	91	412121	38.987	ug/L	99
90)	1,3,5-Trimethylbenzene	10.992	105	468809	36.331	ug/L	97
91)	1,2,3-Trichloropropane	11.008	75	80499	31.761	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.071	53	37449	31.973	ug/L	94
93)	4-Chlorotoluene	11.123	91	420850	38.337	ug/L	99
94)	tert-Butylbenzene	11.343	119	447214	40.994	ug/L	99
97)	1,2,4-Trimethylbenzene	11.427	105	470981	36.527	ug/L	100
98)	sec-Butylbenzene	11.543	105	681282	39.824	ug/L	99
99)	p-Isopropyltoluene	11.700	119	565642	40.800	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	303119	40.284	ug/L	100
101)	1,4-Dichlorobenzene	11.868	146	302011	39.281	ug/L	99
102)	p-Diethylbenzene	12.088	119	344614	42.253	ug/L	98
103)	n-Butylbenzene	12.146	91	505510	41.042	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	277658	39.129	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.895	119	554177	41.843	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	18552	34.007	ug/L	99
107)	1,3,5-Trichlorobenzene	13.121	180	242066	45.164	ug/L	99
108)	Hexachlorobutadiene	13.698	225	115351	37.879	ug/L	99
109)	1,2,4-Trichlorobenzene	13.724	180	206574	41.949	ug/L	99
110)	Naphthalene	14.017	128	374114	35.701	ug/L	100
111)	1,2,3-Trichlorobenzene	14.185	180	175163	39.055	ug/L	99

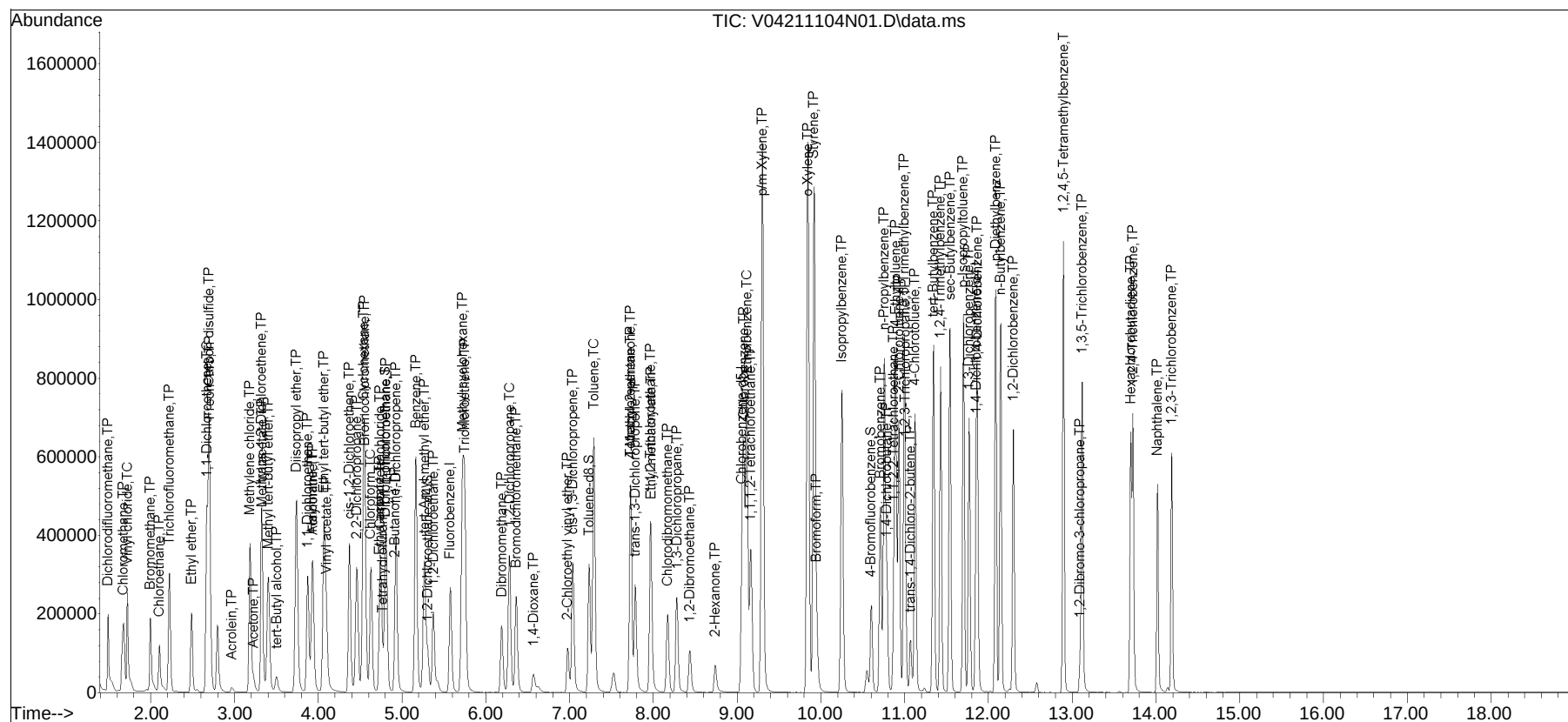
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-2
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

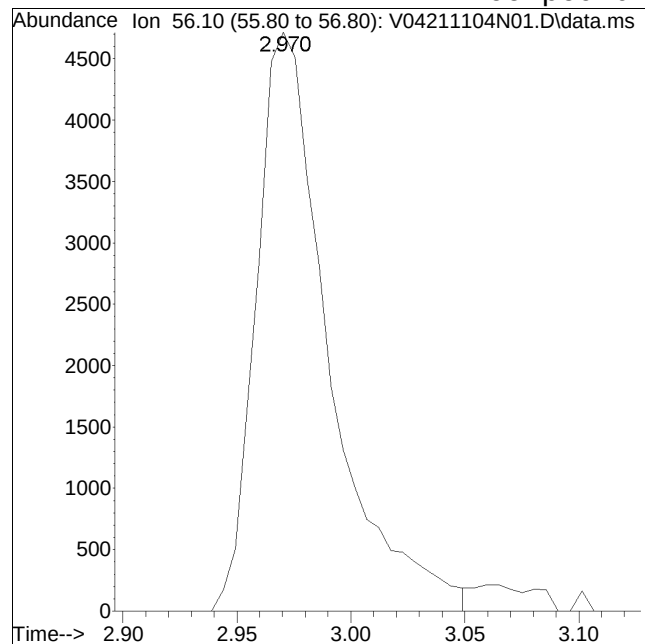
Sub List : 8260-CurveSoil - Megamix plus Diox4N\V04211104N01.D•



Manual Integration Report

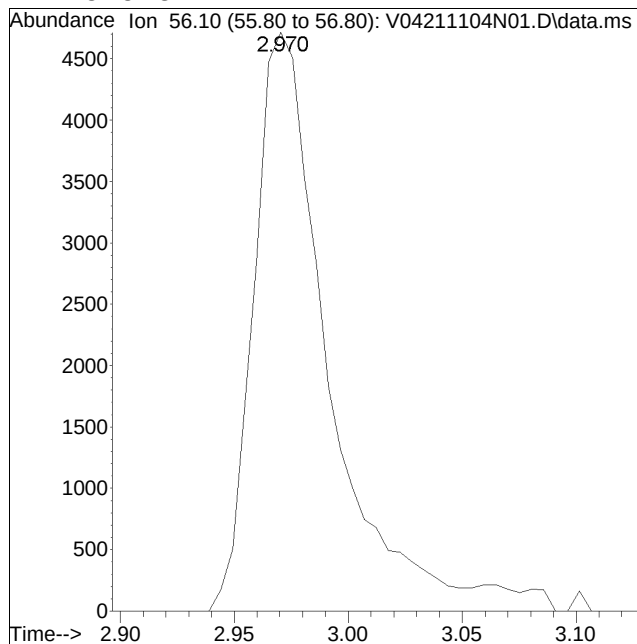
Data Path : I:\VOLATILES\VOA104\2021\2QMethod : V104_210707N_8260.m
Data File : V04211104N01.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 5:59 pm Instrument : VOA104
Sample : WG1567587-2 Quant Date : 11/4/2021 6:28 pm

Compound #14: Acrolein



Original Peak Response = 10450

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

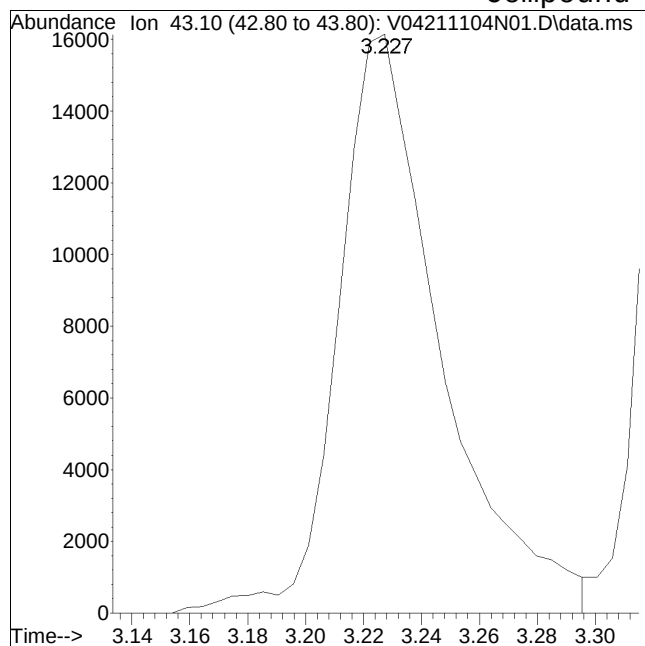


Manual Peak Response = 10912 M1

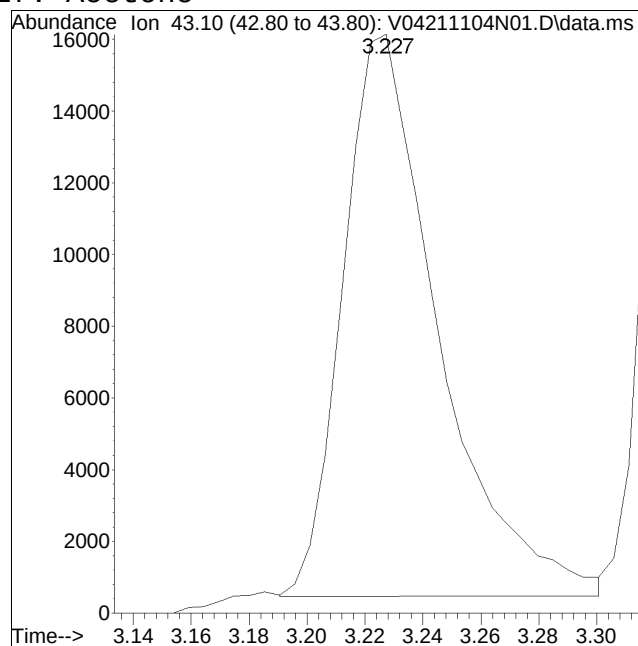
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N01.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 5:59 pm Instrument : VOA104
Sample : WG1567587-2 Quant Date : 11/4/2021 6:28 pm

Compound #17: Acetone



Original Peak Response = 39498



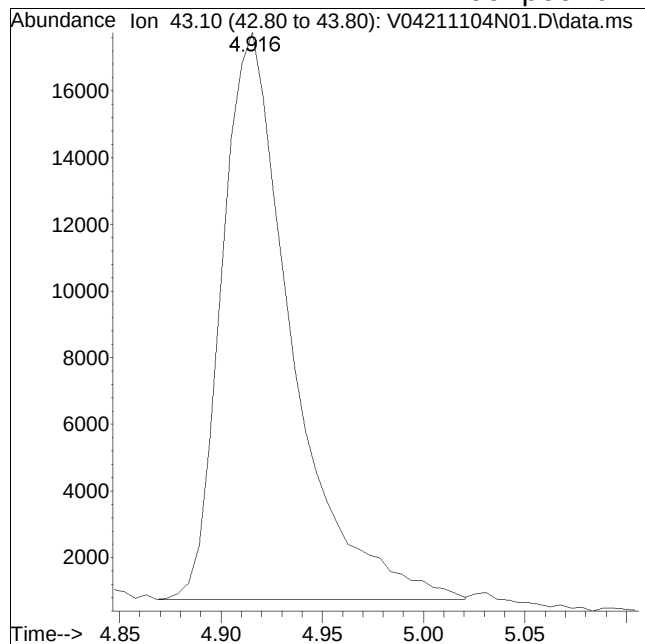
Manual Peak Response = 35851 M4

M4 = Poor automated baseline construction.

Manual Integration Report

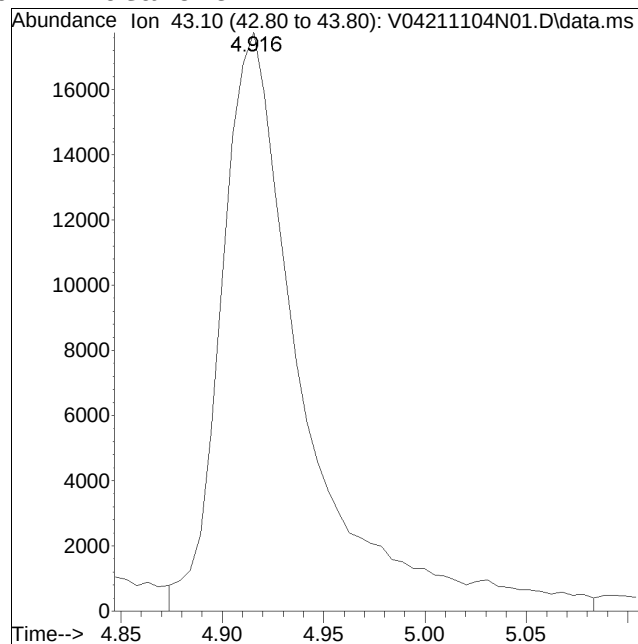
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N01.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 5:59 pm Instrument : VOA104
Sample : WG1567587-2 Quant Date : 11/4/2021 6:28 pm

Compound #39: 2-Butanone



Original Peak Response = 41065

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



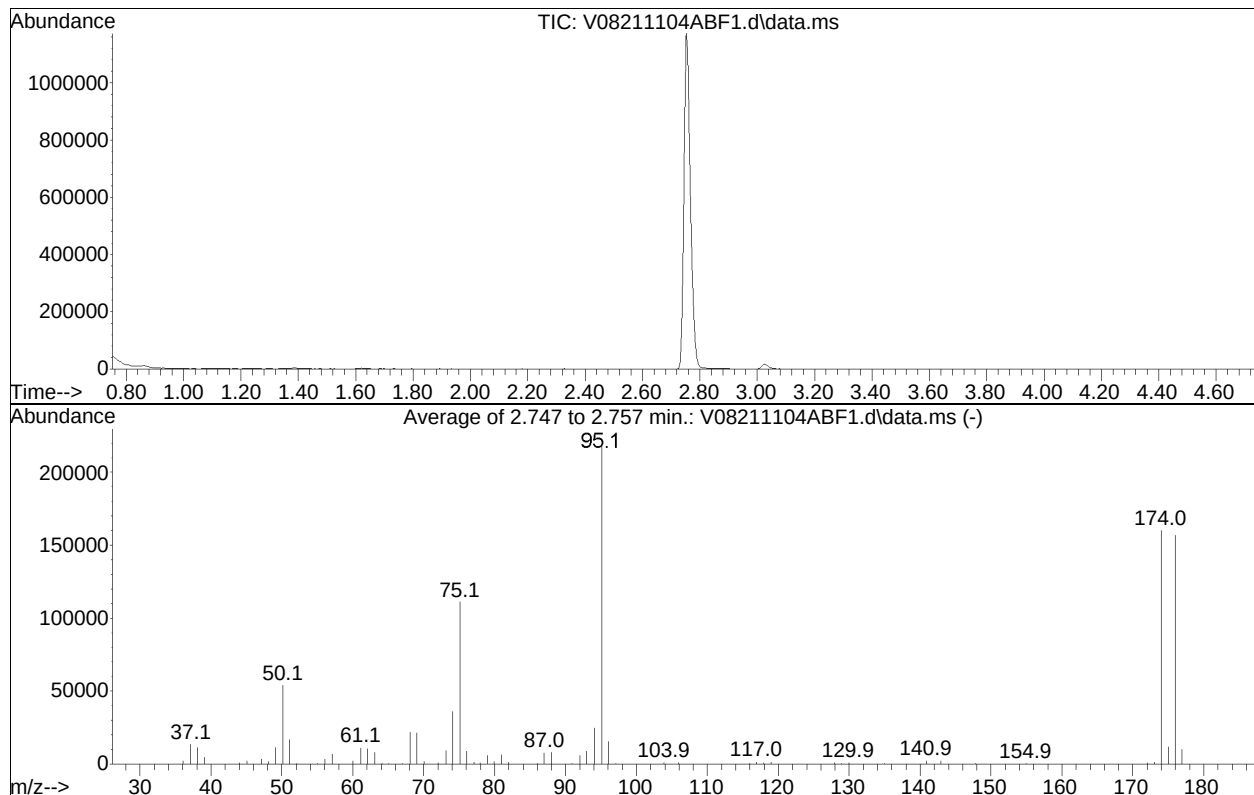
Manual Peak Response = 50068 M1

BFB

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104ABF1.d
 Acq On : 4 Nov 2021 6:53 am
 Operator : VOA108:PD
 Sample : WG1567182-1
 Misc : WG1567182
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Oct 06 10:31:08 2021



AutoFind: Scans 412, 413, 414; Background Corrected with Scan 405

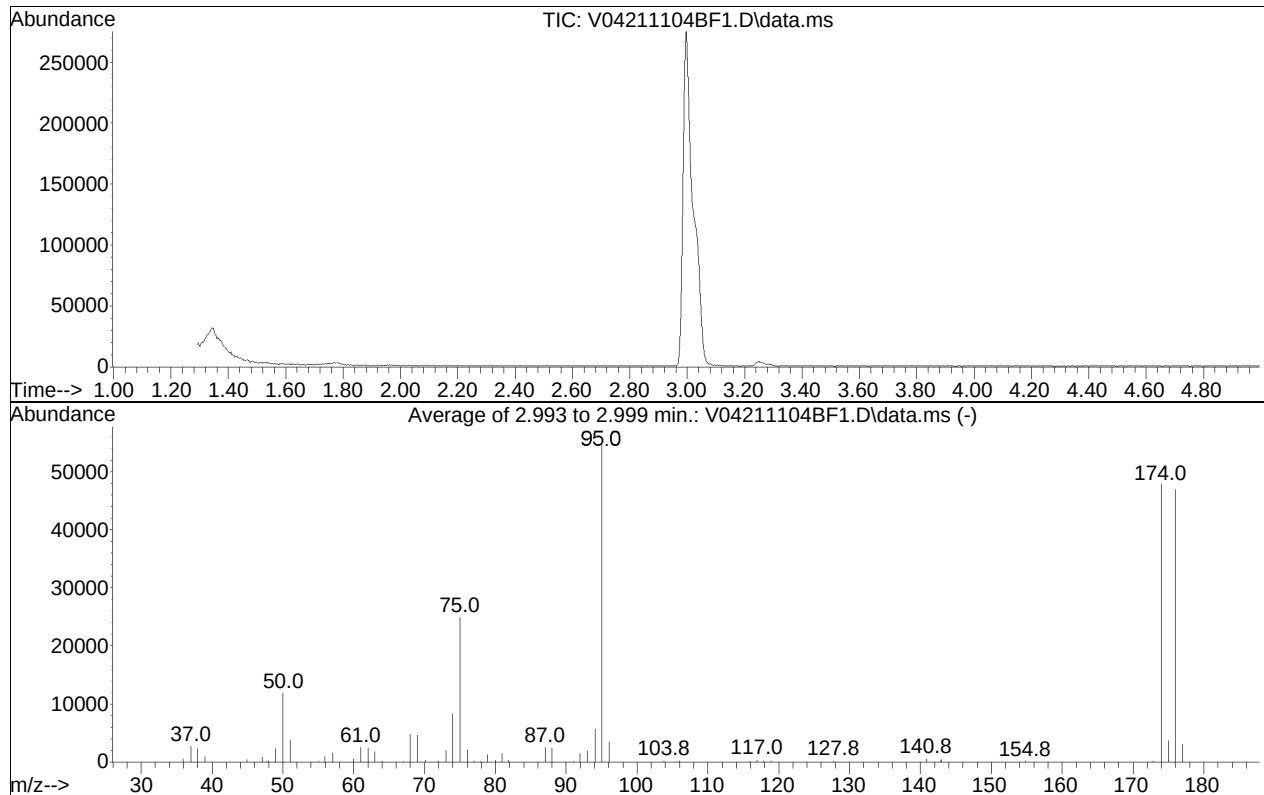
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	53923	PASS
75	95	30	60	50.8	111293	PASS
95	95	100	100	100.0	218944	PASS
96	95	5	9	7.1	15464	PASS
173	174	0.00	2	0.7	1094	PASS
174	95	50	100	73.2	160219	PASS
175	174	5	9	7.4	11931	PASS
176	174	95	101	97.8	156763	PASS
177	176	5	9	6.5	10202	PASS

BFB

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104BF1.D
 Acq On : 4 Nov 2021 6:18 am
 Operator : VOA104:MV
 Sample : WG1567116-1
 Misc : WG1567116,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021



Spectrum Information: Average of 2.993 to 2.999 min.

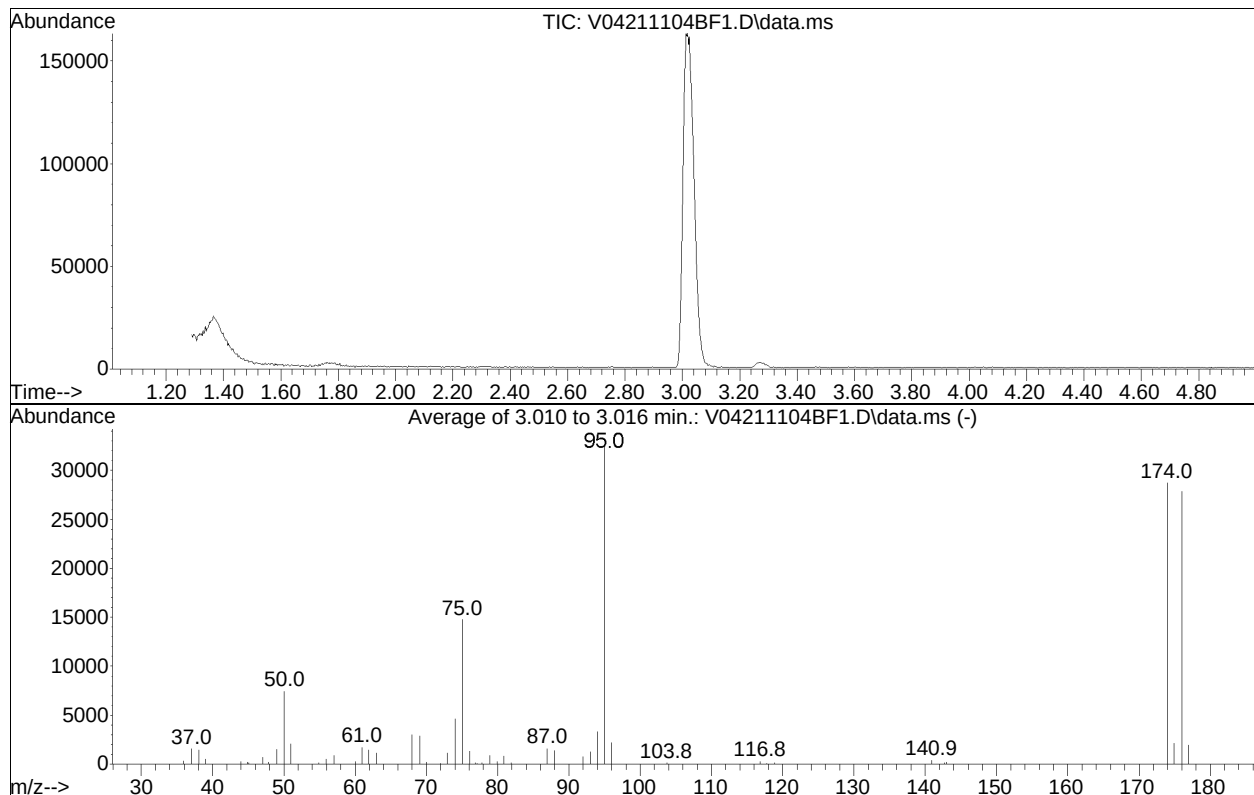
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	11917	PASS
75	95	30	60	45.3	24891	PASS
95	95	100	100	100.0	55000	PASS
96	95	5	9	6.3	3488	PASS
173	174	0.00	2	0.4	194	PASS
174	95	50	100	87.0	47872	PASS
175	174	5	9	7.6	3653	PASS
176	174	95	101	98.0	46933	PASS
177	176	5	9	6.6	3094	PASS

BFB

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104BF1.D
 Acq On : 4 Nov 2021 5:37 pm
 Operator : VOA104:AJK
 Sample : WG1567587-1
 Misc : WG1567587
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Jul 08 11:04:08 2021



AutoFind: Scans 618, 619, 620; Background Corrected with Scan 605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	7450	PASS
75	95	30	60	45.2	14762	PASS
95	95	100	100	100.0	32635	PASS
96	95	5	9	6.7	2176	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.0	28731	PASS
175	174	5	9	7.6	2178	PASS
176	174	95	101	97.0	27856	PASS
177	176	5	9	7.1	1966	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A05.d
 Acq On : 4 Nov 2021 8:24 am
 Operator : VOA108:PD
 Sample : WG1567182-5,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:47:19 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.201	96	280440	10.000	ug/L	-0.01
Standard Area 1 = 317596			Recovery	=	88.30%	
59) Chlorobenzene-d5	8.310	117	214816	10.000	ug/L	0.00
Standard Area 1 = 234349			Recovery	=	91.66%	
79) 1,4-Dichlorobenzene-d4	9.820	152	106772	10.000	ug/L	0.00
Standard Area 1 = 124409			Recovery	=	85.82%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.184	113	81000	10.494	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.94%	
43) 1,2-Dichloroethane-d4	4.844	65	81237	10.310	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.10%	
60) Toluene-d8	6.941	98	258943	9.476	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.76%	
83) 4-Bromofluorobenzene	9.149	95	93513	9.552	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	95.52%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.797	85	408	N.D.		
3) Chloromethane	1.001	50	1174	0.129	ug/L	# 81
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.242	94	827	0.224	ug/L	93
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	1.740	76	965	N.D.		
15) Methylene chloride	2.176	84	356	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	2.317	96	49	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	3.224	43	48	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A05.d
 Acq On : 4 Nov 2021 8:24 am
 Operator : VOA108:PD
 Sample : WG1567182-5,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:47:19 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	5.416	95	127		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	6.994	92	125		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	d
73) Chlorobenzene	8.315	112	493		N.D.	
74) Ethylbenzene	8.368	91	388		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.478	106	104		N.D.	
77) o Xylene	8.761	106	51		N.D.	
78) Styrene	8.819	104	465		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	8.981	105	294		N.D.	
84) Bromobenzene	9.201	156	120		N.D.	
85) n-Propylbenzene	9.243	91	790		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.317	105	582		N.D.	
89) 2-Chlorotoluene	9.327	91	598		N.D.	
90) 1,3,5-Trimethylbenzene	9.374	105	319		N.D.	
91) 1,2,3-Trichloropropane	9.259	75	257		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.437	91	558		N.D.	
94) tert-Butylbenzene	9.558	119	186		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A05.d
 Acq On : 4 Nov 2021 8:24 am
 Operator : VOA108:PD
 Sample : WG1567182-5,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:47:19 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.610	105	306	N.D.		
98)	sec-Butylbenzene	9.663	105	668	N.D.		
99)	p-Isopropyltoluene	9.747	119	579	N.D.		
100)	1,3-Dichlorobenzene	9.783	146	585	N.D.		
101)	1,4-Dichlorobenzene	9.830	146	853	N.D.		
102)	p-Diethylbenzene	9.967	119	486	N.D.		
103)	n-Butylbenzene	9.998	91	1183	N.D.		
104)	1,2-Dichlorobenzene	10.077	146	240	N.D.		
105)	1,2,4,5-Tetramethylben...	10.423	119	633	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	10.895	225	463	0.110	ug/L	# 77
109)	1,2,4-Trichlorobenzene	10.916	180	457	N.D.		
110)	Naphthalene	11.094	128	437	N.D.		
111)	1,2,3-Trichlorobenzene	11.188	180	261	N.D.		

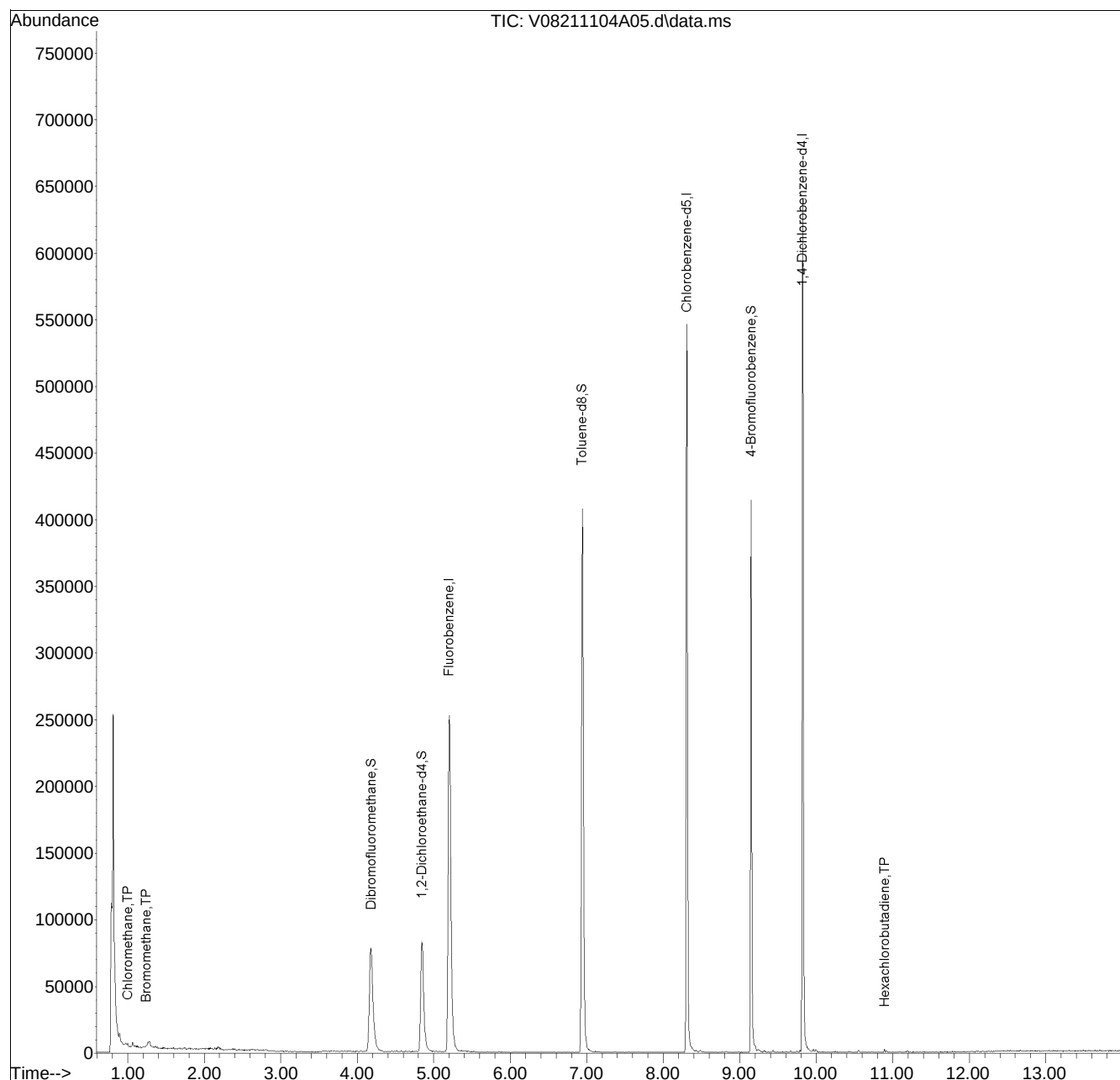
(#) = qualifier out of range (m) = manual integration (+) = signals summed

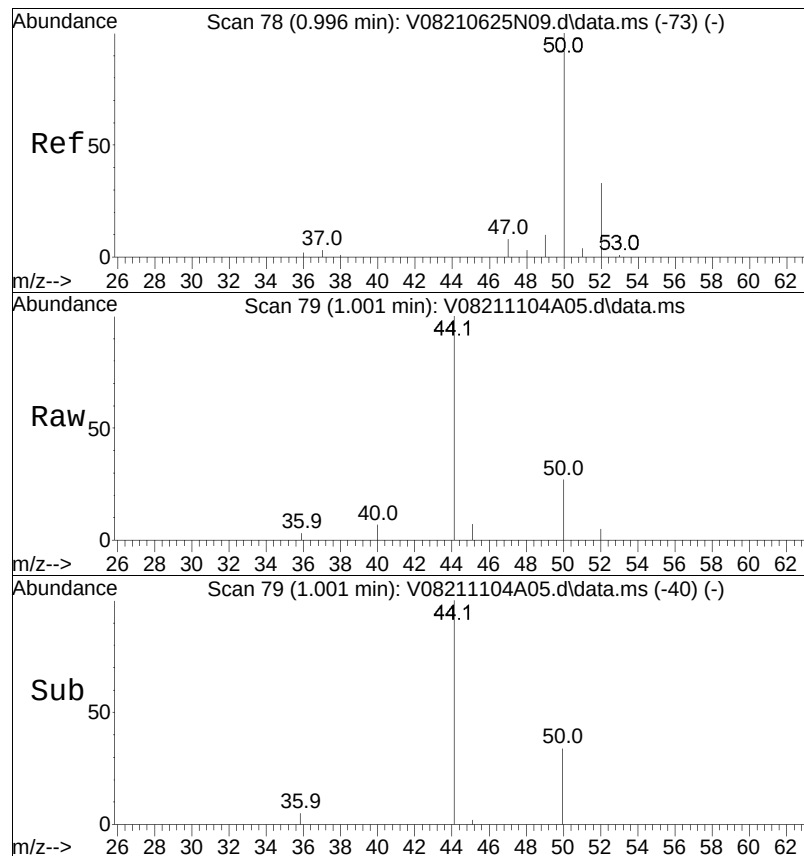
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A05.d
 Acq On : 4 Nov 2021 8:24 am
 Operator : VOA108:PD
 Sample : WG1567182-5,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:47:19 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

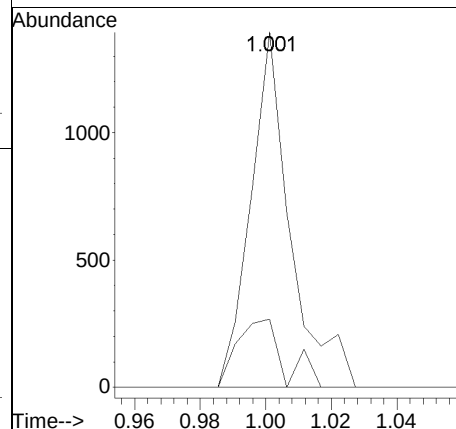
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

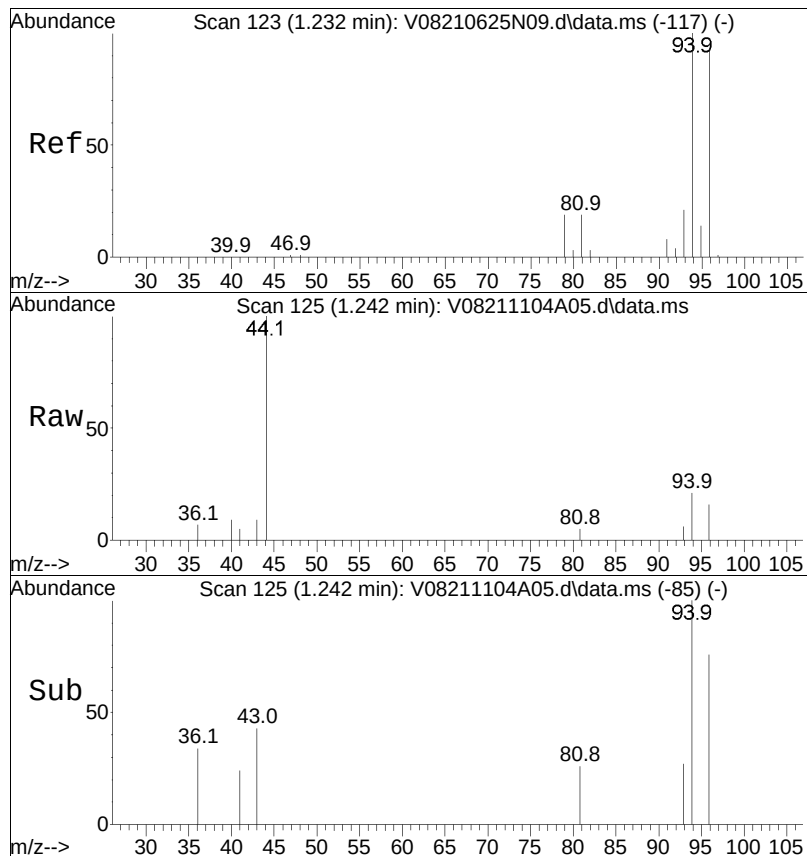




#3
 Chloromethane
 Concen: 0.13 ug/L
 RT: 1.001 min Scan# 79
 Delta R.T. 0.005 min
 Lab File: V08211104A05.d
 Acq: 4 Nov 2021 8:24 am

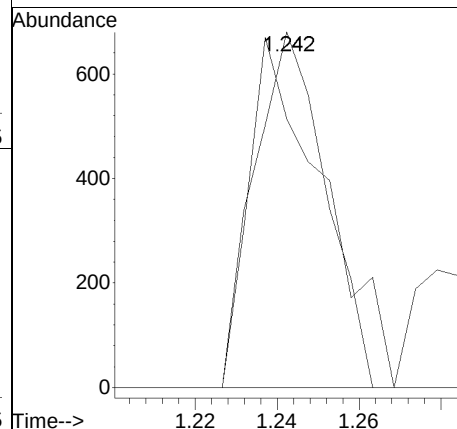
Tgt	Ion: 50	Resp:	1174
Ion	Ratio	Lower	Upper
50	100		
52	22.5	12.9	52.9
47	0.0	0.0	28.3

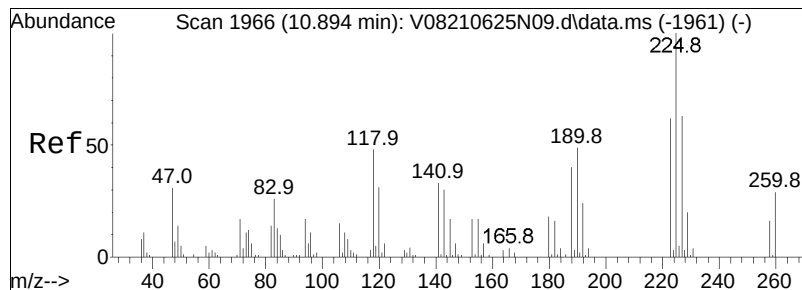




#5
 Bromomethane
 Concen: 0.22 ug/L
 RT: 1.242 min Scan# 125
 Delta R.T. 0.010 min
 Lab File: V08211104A05.d
 Acq: 4 Nov 2021 8:24 am

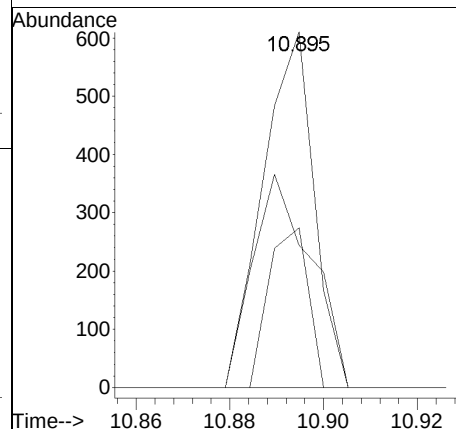
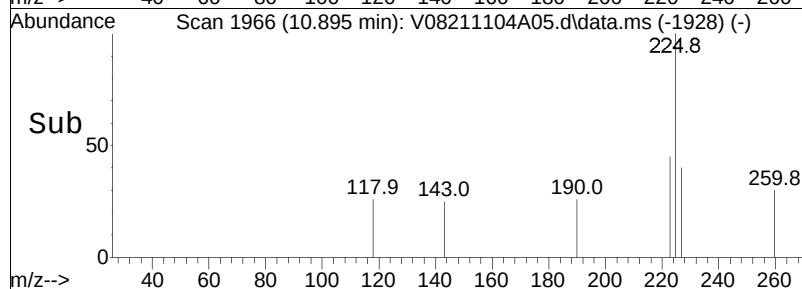
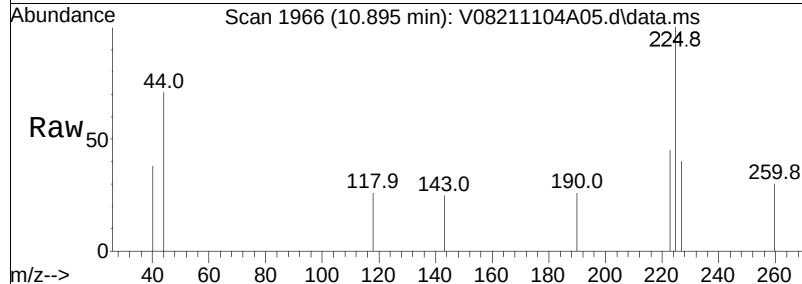
Tgt Ion	Ratio	Lower	Upper
94	100		
96	102.7	75.6	115.6





#108
 Hexachlorobutadiene
 Concen: 0.11 ug/L
 RT: 10.895 min Scan# 1966
 Delta R.T. -0.000 min
 Lab File: V08211104A05.d
 Acq: 4 Nov 2021 8:24 am

Tgt Ion	Ratio	Lower	Upper
225	100		
223	34.8	54.3	81.5#
227	68.5	52.4	78.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2021\20	Method	: V108_211004N_8260.m
Data File	: V08211104A05.d	Operator	: VOA108:PD
Date Inj'd	: 11/4/2021 8:24 am	Instrument	: VOA 108
Sample	: WG1567182-5,31,10,10	Quant Date	: 11/4/2021 8:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A05.D
 Acq On : 4 Nov 2021 8:21 am
 Operator : VOA104:MV
 Sample : WG1567116-5,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:49:13 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.576	96	224732	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery = 85.42%			
59) Chlorobenzene-d5	9.063	117	182741	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery = 97.55%			
79) 1,4-Dichlorobenzene-d4	11.852	152	107236	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery = 104.46%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	66109	19.312	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 96.56%			
43) 1,2-Dichloroethane-d4	5.303	65	62277	19.191	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery = 95.95%			
60) Toluene-d8	7.233	98	229879	19.978	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.89%			
83) 4-Bromofluorobenzene	10.599	95	85435	17.202	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 86.01%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.675	50	170	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.990	94	346	Below Cal		82
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.677	76	1572	0.156 ug/L #		81
15) Methylene chloride	3.185	84	976	Below Cal		70
17) Acetone	3.253	43	2106	0.707 ug/L #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	3.400	73	237	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.632	83	445	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A05.D
 Acq On : 4 Nov 2021 8:21 am
 Operator : VOA104:MV
 Sample : WG1567116-5,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:49:13 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	4.984	43	48	Below Cal	#	42
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.178	78	53	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	5.660	95	157	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.301	92	1696	0.222	ug/L	92
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	8.743	43	55	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.136	91	109	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	9.991	104	255	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.284	105	101	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	10.793	91	231	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	10.919	105	407	N.D.		
89) 2-Chlorotoluene	10.955	91	97	N.D.		
90) 1,3,5-Trimethylbenzene	11.018	105	368	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	11.170	91	50	N.D.		
94) tert-Butylbenzene	11.354	119	192	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A05.D
 Acq On : 4 Nov 2021 8:21 am
 Operator : VOA104:MV
 Sample : WG1567116-5,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:49:13 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.443	105	665	N.D.		
98)	sec-Butylbenzene	11.553	105	734	N.D.		
99)	p-Isopropyltoluene	11.705	119	854	N.D.		
100)	1,3-Dichlorobenzene	11.789	146	534	N.D.		
101)	1,4-Dichlorobenzene	11.873	146	616	N.D.		
102)	p-Diethylbenzene	12.098	119	733	N.D.		
103)	n-Butylbenzene	12.172	91	1519	0.114	ug/L #	71
104)	1,2-Dichlorobenzene	12.324	146	243	N.D.		
105)	1,2,4,5-Tetramethylben...	12.906	119	2091	0.146	ug/L	97
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	13.698	225	303	N.D.		
109)	1,2,4-Trichlorobenzene	13.739	180	1492	0.281	ug/L #	89
110)	Naphthalene	14.033	128	4599	0.407	ug/L	100
111)	1,2,3-Trichlorobenzene	14.201	180	1737	0.359	ug/L #	89

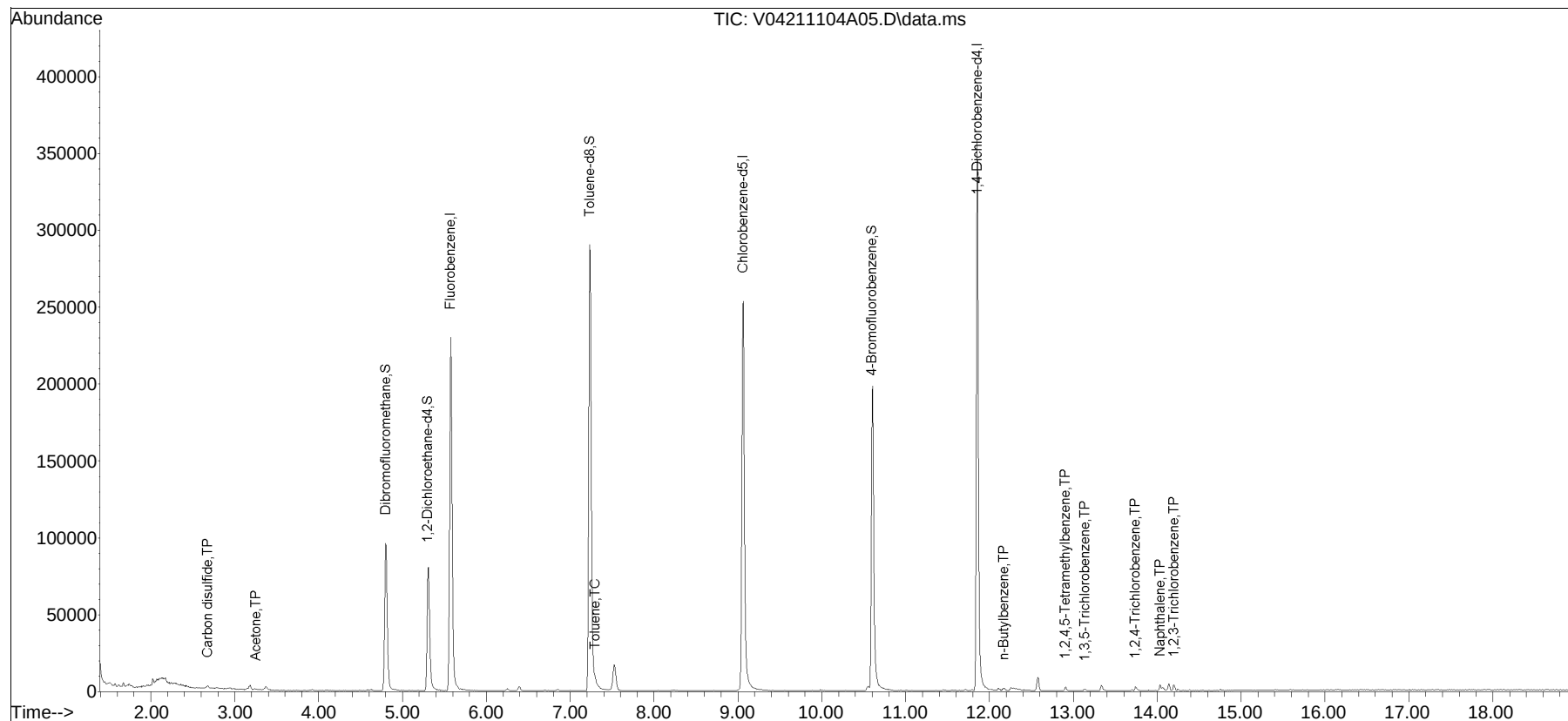
(#) = qualifier out of range (m) = manual integration (+) = signals summed

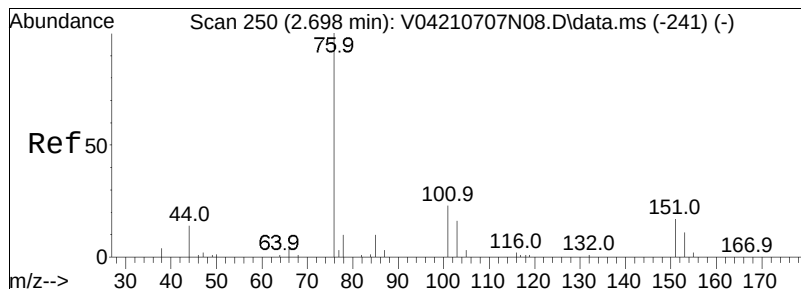
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A05.D
 Acq On : 4 Nov 2021 8:21 am
 Operator : VOA104:MV
 Sample : WG1567116-5,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 08:49:13 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

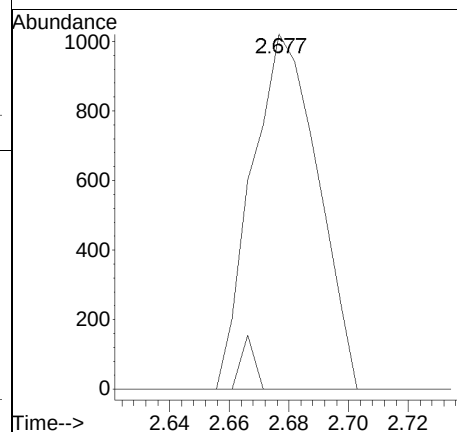
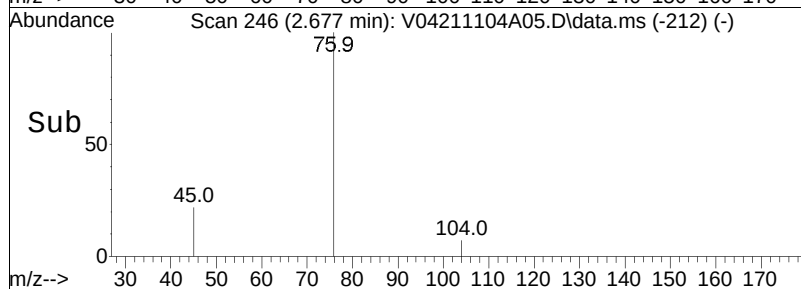
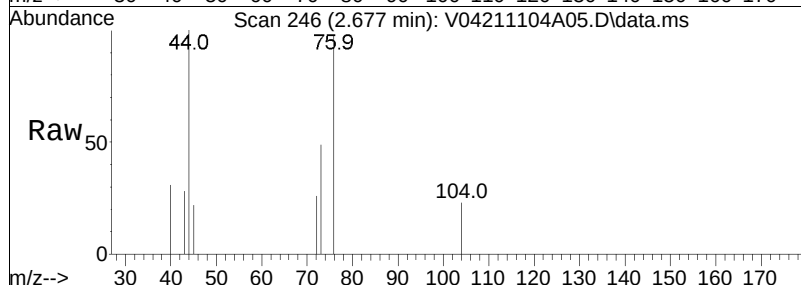
Sub List : 8260-CurveSoil - Megamix plus Diox4A\V04211104A02.D•

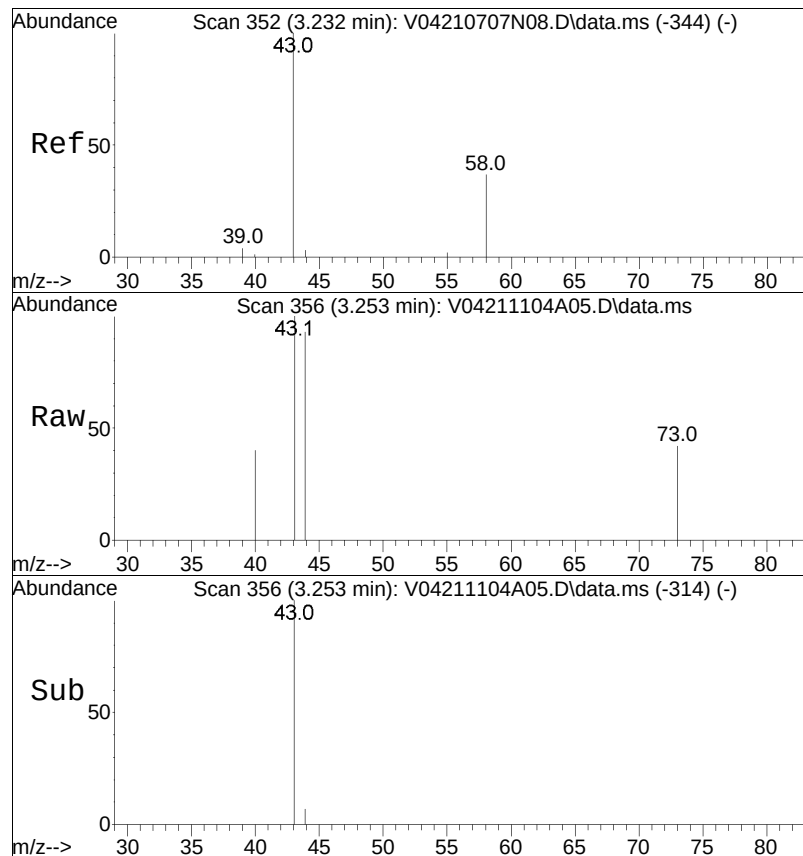




#11
 Carbon disulfide
 Concen: 0.16 ug/L
 RT: 2.677 min Scan# 246
 Delta R.T. -0.021 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am

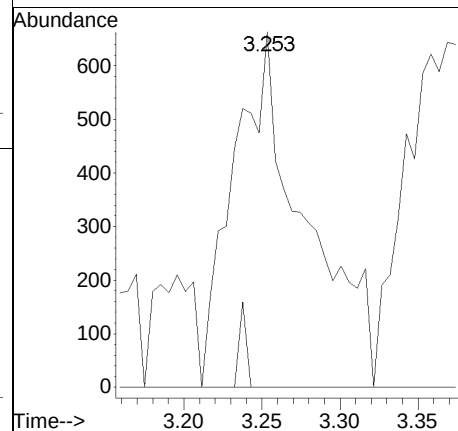
Tgt Ion: 76 Resp: 1572
 Ion Ratio Lower Upper
 76 100
 78 3.1 6.6 13.8#

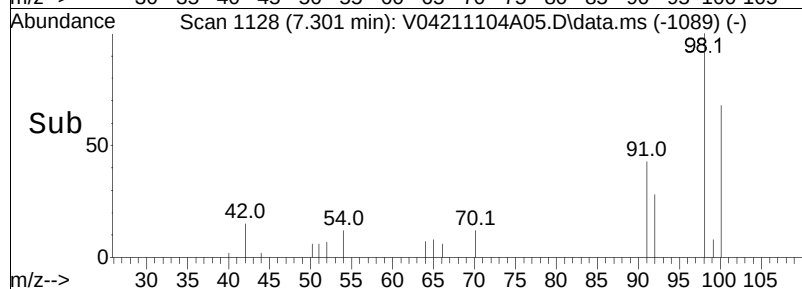
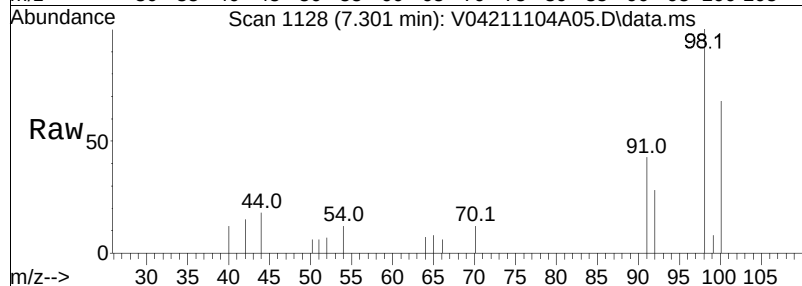
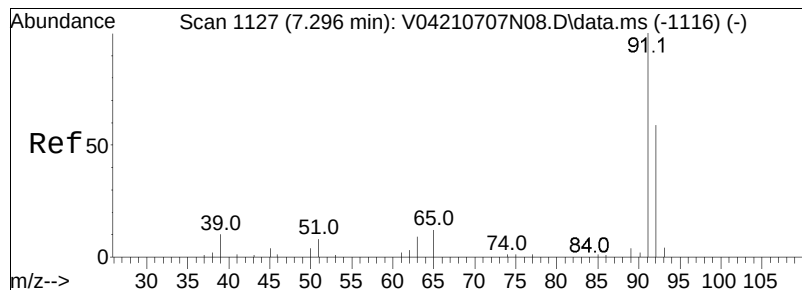




#17
 Acetone
 Concen: 0.71 ug/L
 RT: 3.253 min Scan# 356
 Delta R.T. 0.021 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am

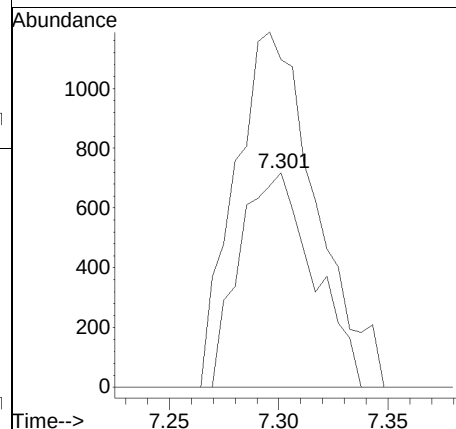
Tgt Ion	Ratio	Lower	Upper
43	100		
58	2.4	23.2	34.8#

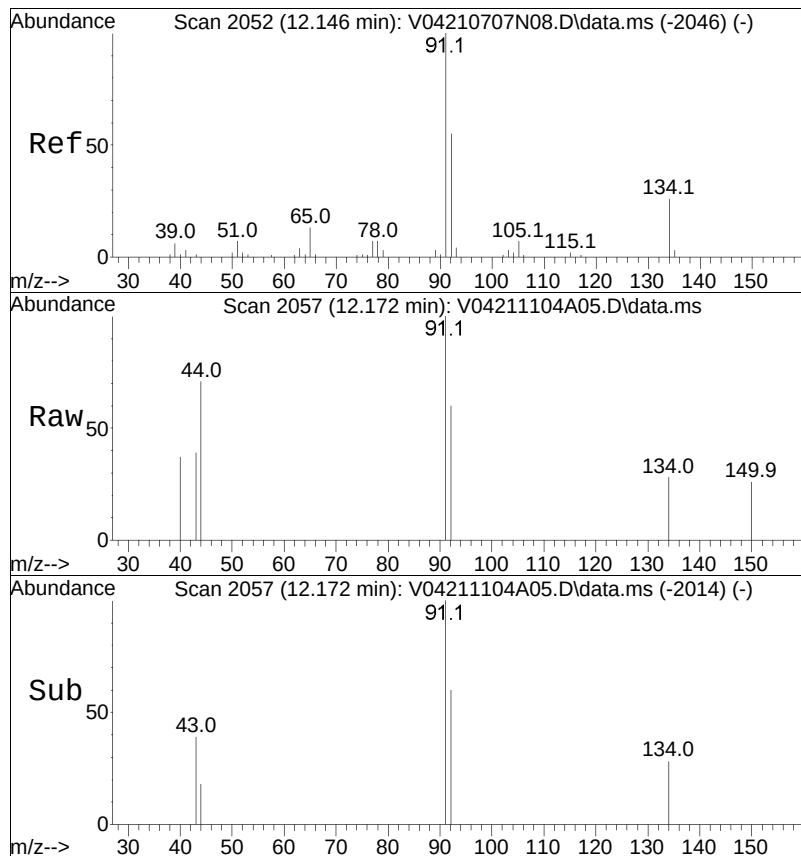




#61
Toluene
Concen: 0.22 ug/L
RT: 7.301 min Scan# 1128
Delta R.T. 0.005 min
Lab File: V04211104A05.D
Acq: 4 Nov 2021 8:21 am

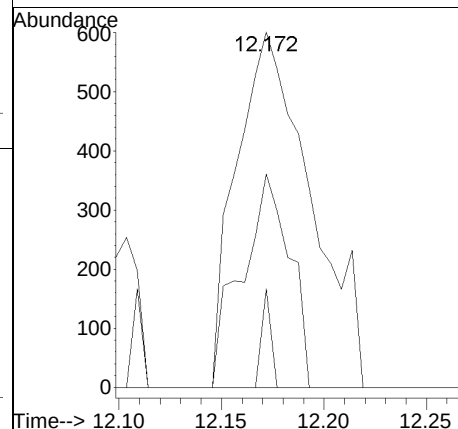
Tgt Ion:	92	Resp:	1696
Ion Ratio	Lower	Upper	
92	100		
91	181.0	135.8	203.6

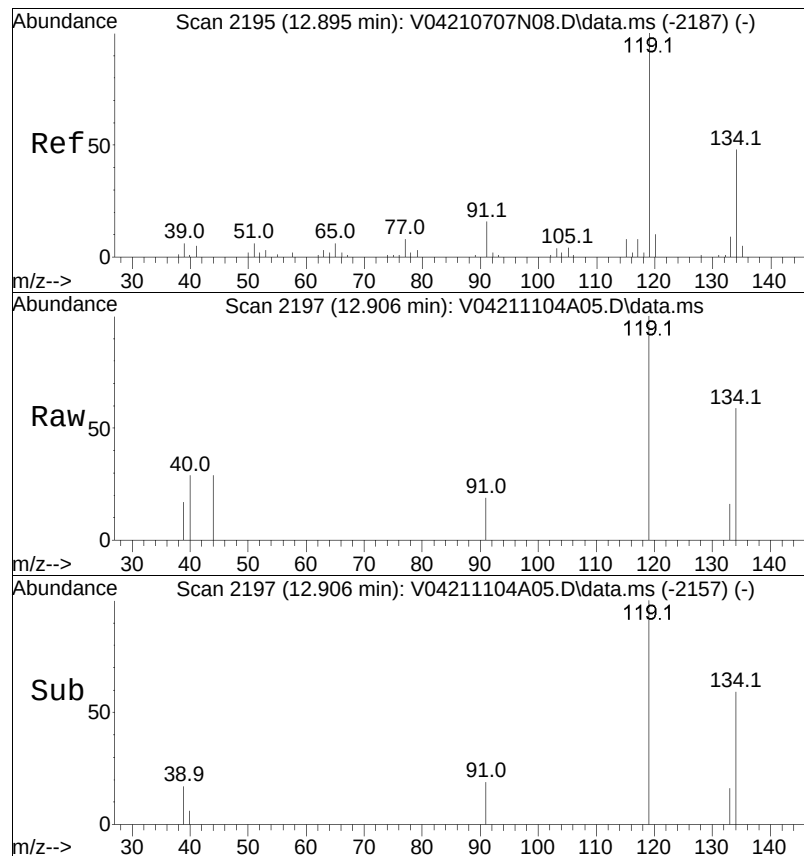




#103
 n-Butylbenzene
 Concen: 0.11 ug/L
 RT: 12.172 min Scan# 2057
 Delta R.T. 0.026 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am

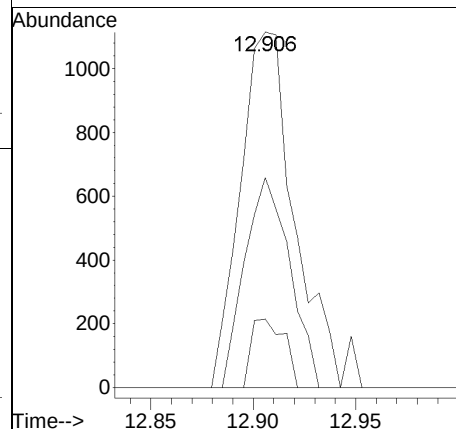
Tgt Ion:	91	Resp:	1519
Ion Ratio	Lower	Upper	
91	100		
92	38.8	43.4	65.2#
134	3.5	21.5	32.3#

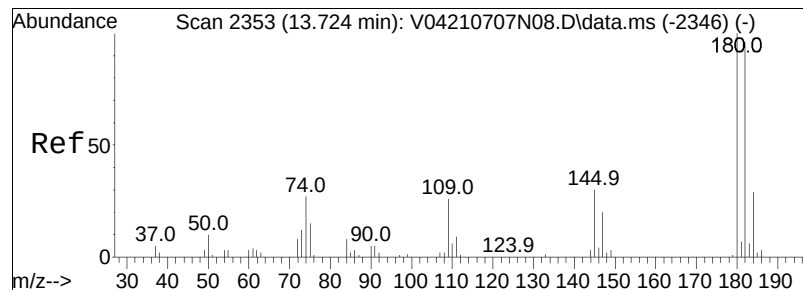




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 0.15 ug/L
 RT: 12.906 min Scan# 2197
 Delta R.T. 0.011 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am

Tgt Ion	Ratio	Lower	Upper
119	100		
134	48.2	31.3	64.9
91	11.4	10.1	21.1





#109

1,2,4-Trichlorobenzene

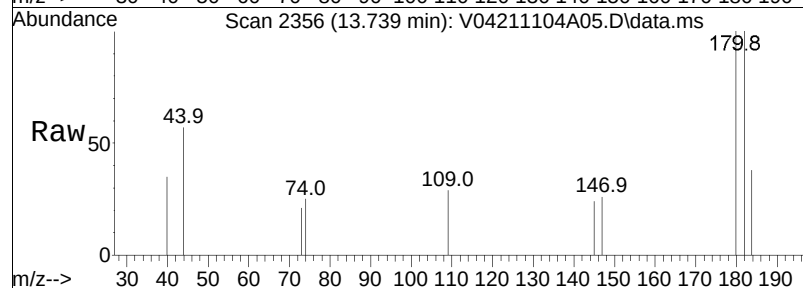
Concen: 0.28 ug/L

RT: 13.739 min Scan# 2356

Delta R.T. 0.015 min

Lab File: V04211104A05.D

Acq: 4 Nov 2021 8:21 am



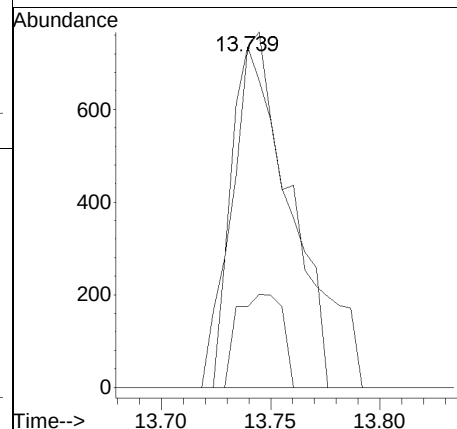
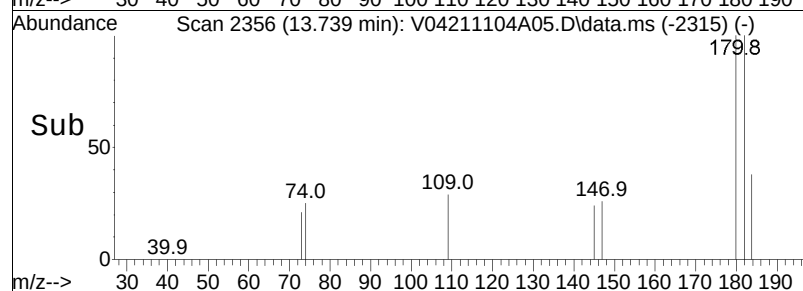
Tgt Ion:180 Resp: 1492

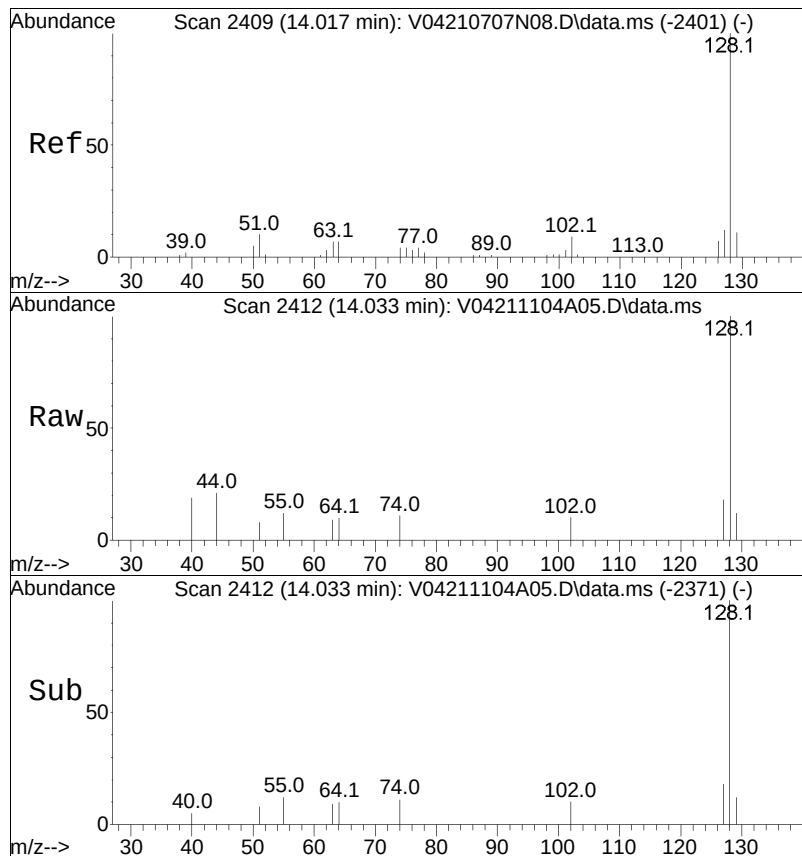
Ion Ratio Lower Upper

180 100

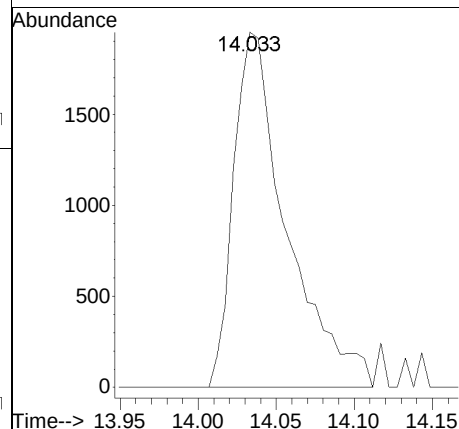
182 91.3 77.0 115.4

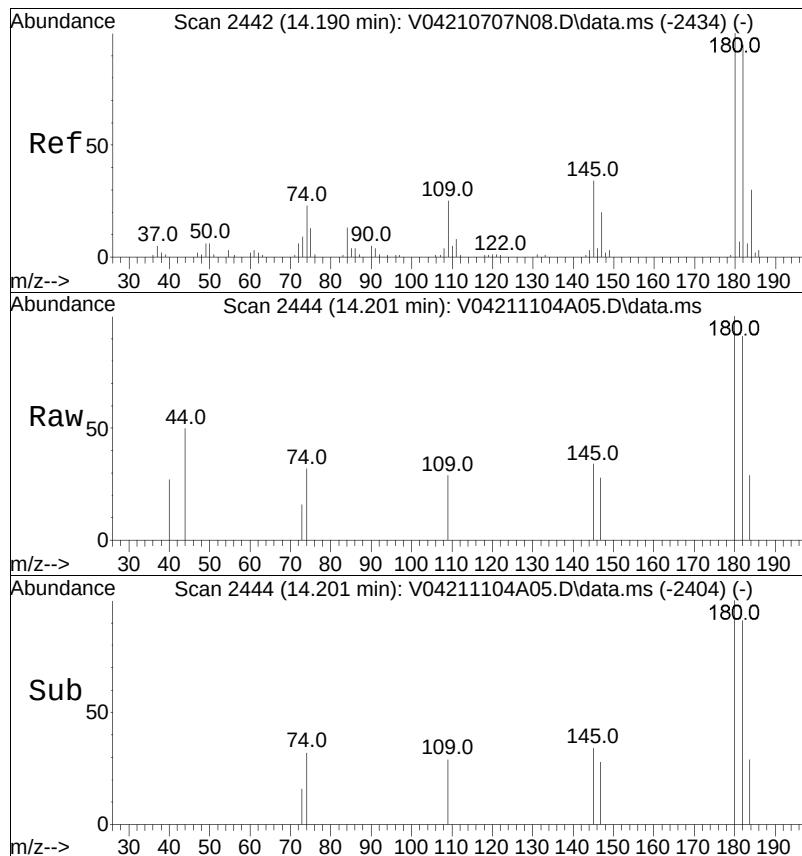
145 19.4 28.4 42.6#





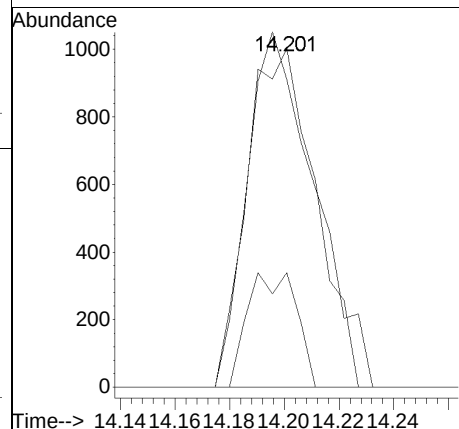
#110
 Naphthalene
 Concen: 0.41 ug/L
 RT: 14.033 min Scan# 2412
 Delta R.T. 0.016 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am
 Tgt Ion:128 Resp: 4599





#111
 1,2,3-Trichlorobenzene
 Concen: 0.36 ug/L
 RT: 14.201 min Scan# 2444
 Delta R.T. 0.011 min
 Lab File: V04211104A05.D
 Acq: 4 Nov 2021 8:21 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	104.6	75.9	113.9
145	24.2	25.8	38.6#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2021\20	Method	: V104_210707N_8260.m
Data File	: V04211104A05.D	Operator	: VOA104:MV
Date Inj'd	: 11/4/2021 8:21 am	Instrument	: VOA104
Sample	: WG1567116-5,31,5,5	Quant Date	: 11/4/2021 8:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N05.D
 Acq On : 4 Nov 2021 7:40 pm
 Operator : VOA104:AJK
 Sample : WG1567587-5,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 20:32:35 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.576	96	217565	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery =	81.85%		
59) Chlorobenzene-d5	9.063	117	182406	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery =	97.55%		
79) 1,4-Dichlorobenzene-d4	11.852	152	106454	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery =	107.06%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	65337	19.715	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.58%		
43) 1,2-Dichloroethane-d4	5.309	65	61311	19.516	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.58%		
60) Toluene-d8	7.233	98	230428	20.062	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.31%		
83) 4-Bromofluorobenzene	10.604	95	82414	16.716	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	83.58%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.670	50	66	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.995	94	678	Below Cal	#	39
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.677	76	1643	0.168 ug/L	#	73
15) Methylene chloride	3.180	84	1665	Below Cal		83
17) Acetone	3.232	43	587	Below Cal	#	46
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	3.390	73	581	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	4.643	83	454	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N05.D
 Acq On : 4 Nov 2021 7:40 pm
 Operator : VOA104:AJK
 Sample : WG1567587-5,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 20:32:35 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	4.947	43	2088	Below Cal	#	55
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	5.660	95	94	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.301	92	56	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.063	91	189	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	10.017	104	158	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.279	105	50	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	10.793	91	209	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	10.924	105	402	N.D.		
89) 2-Chlorotoluene	10.961	91	59	N.D.		
90) 1,3,5-Trimethylbenzene	11.018	105	232	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	11.170	91	180	N.D.		
94) tert-Butylbenzene	11.349	119	310	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N05.D
 Acq On : 4 Nov 2021 7:40 pm
 Operator : VOA104:AJK
 Sample : WG1567587-5,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 20:32:35 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
97)	1,2,4-Trimethylbenzene	11.448	105	884	N.D.			
98)	sec-Butylbenzene	11.553	105	730	N.D.			
99)	p-Isopropyltoluene	11.710	119	915	N.D.			
100)	1,3-Dichlorobenzene	11.789	146	451	N.D.			
101)	1,4-Dichlorobenzene	11.868	146	689	N.D.			
102)	p-Diethylbenzene	12.109	119	828	N.D.			
103)	n-Butylbenzene	12.167	91	1222	N.D.			
104)	1,2-Dichlorobenzene	12.324	146	386	N.D.			
105)	1,2,4,5-Tetramethylben...	12.911	119	1941	0.137	ug/L	#	91
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
108)	Hexachlorobutadiene	13.703	225	337	0.103	ug/L	#	52
109)	1,2,4-Trichlorobenzene	13.739	180	1370	0.260	ug/L	#	91
110)	Naphthalene	14.038	128	4442	0.396	ug/L		100
111)	1,2,3-Trichlorobenzene	14.196	180	1831	0.381	ug/L	#	95

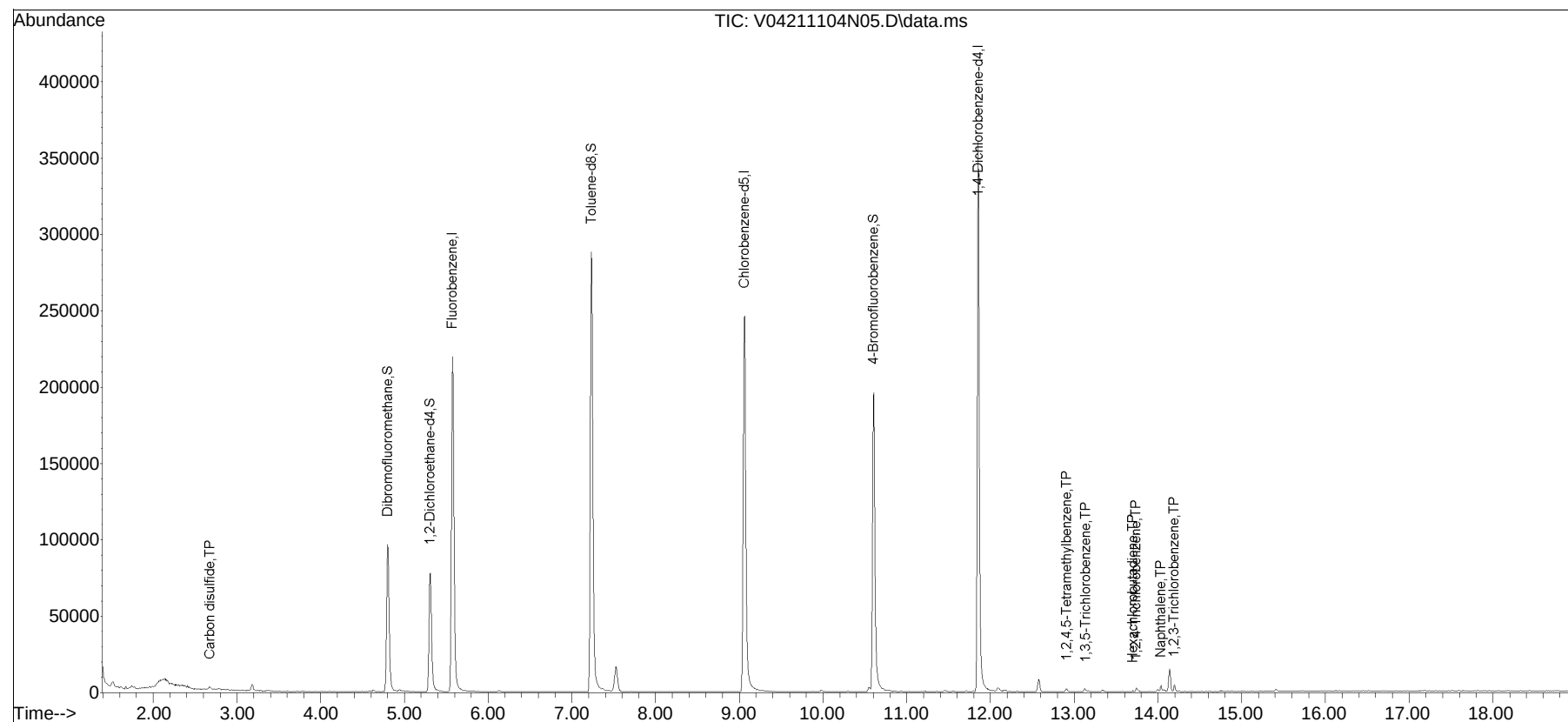
(#) = qualifier out of range (m) = manual integration (+) = signals summed

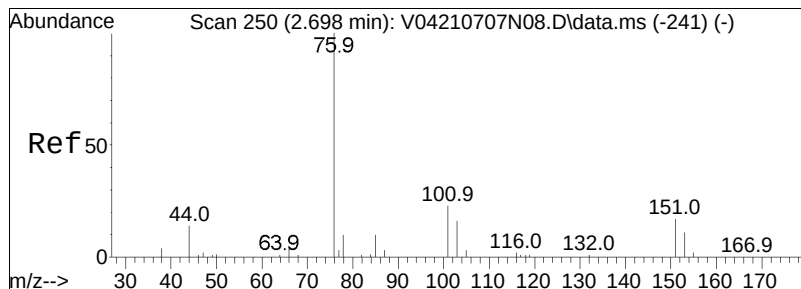
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N05.D
 Acq On : 4 Nov 2021 7:40 pm
 Operator : VOA104:AJK
 Sample : WG1567587-5,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 20:32:35 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

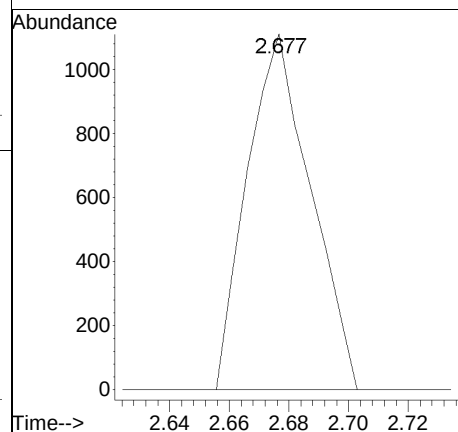
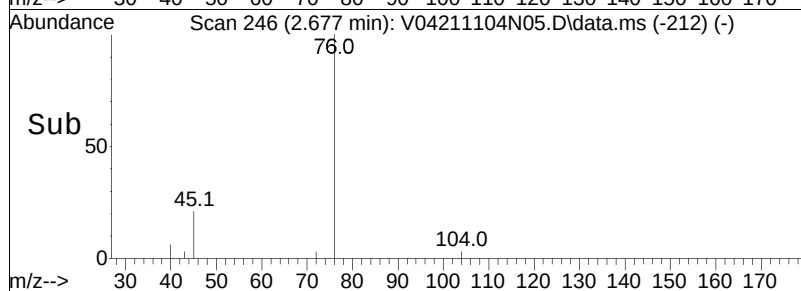
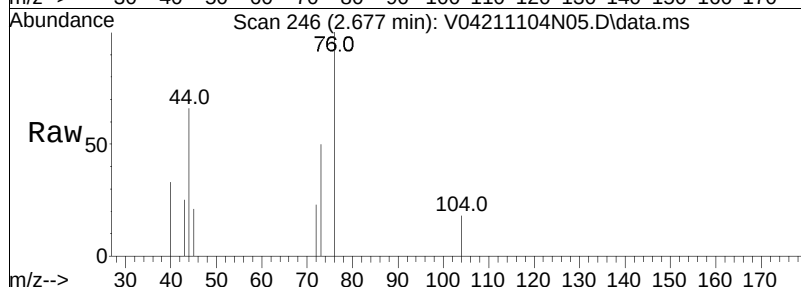
Sub List : 8260-CurveSoil - Megamix plus Diox4N\V04211104N01.D•

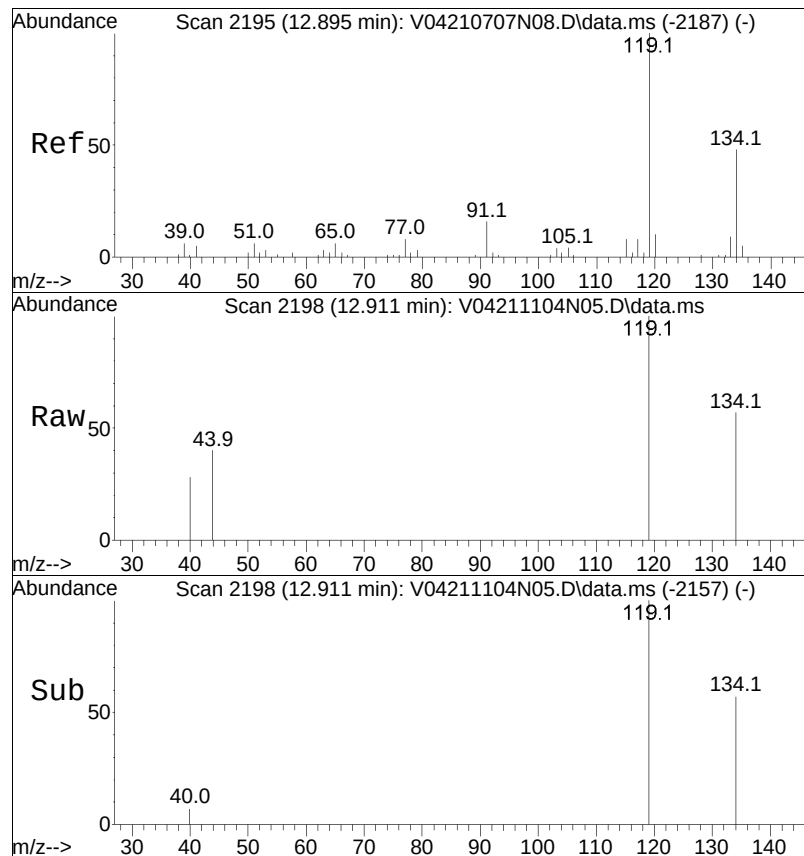




#11
 Carbon disulfide
 Concen: 0.17 ug/L
 RT: 2.677 min Scan# 246
 Delta R.T. -0.021 min
 Lab File: V04211104N05.D
 Acq: 4 Nov 2021 7:40 pm

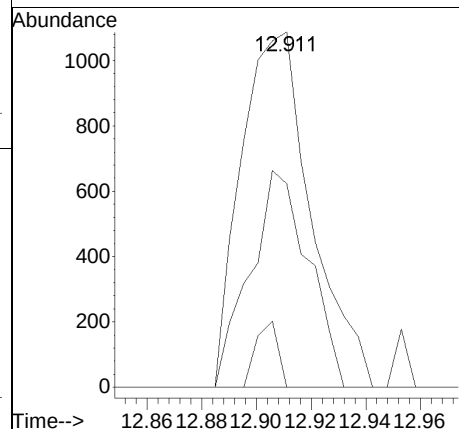
Tgt Ion: 76 Resp: 1643
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.6 13.8#

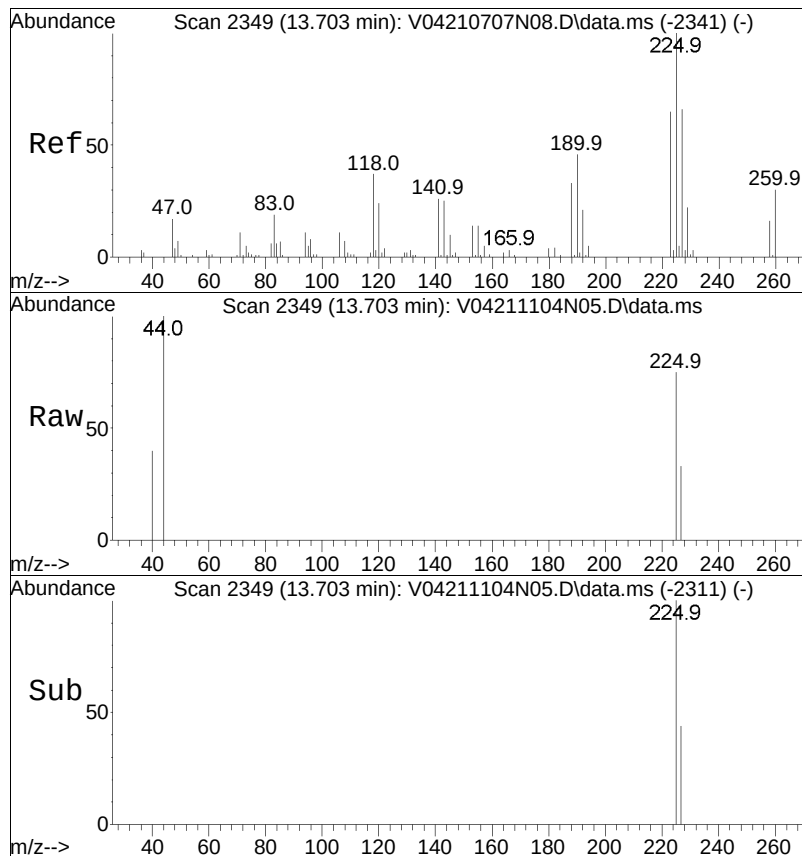




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 0.14 ug/L
 RT: 12.911 min Scan# 2198
 Delta R.T. 0.016 min
 Lab File: V04211104N05.D
 Acq: 4 Nov 2021 7:40 pm

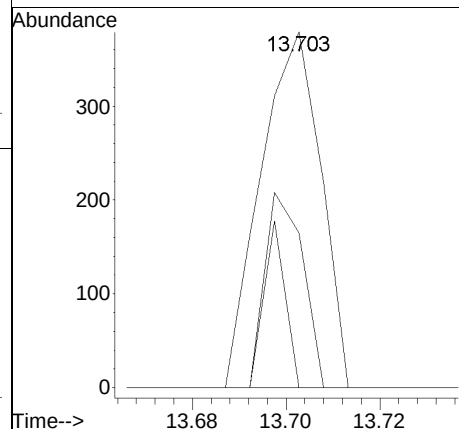
Tgt Ion:	119	Resp:	1941
Ion Ratio	Lower	Upper	
119	100		
134	50.7	31.3	64.9
91	5.9	10.1	21.1#

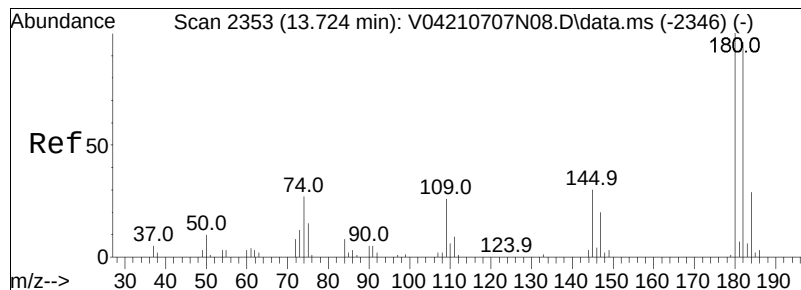




#108
 Hexachlorobutadiene
 Concen: 0.10 ug/L
 RT: 13.703 min Scan# 2349
 Delta R.T. -0.000 min
 Lab File: V04211104N05.D
 Acq: 4 Nov 2021 7:40 pm

Tgt Ion	Ratio	Lower	Upper
225	100		
223	16.6	50.7	76.1#
227	34.7	50.7	76.1#





#109

1,2,4-Trichlorobenzene

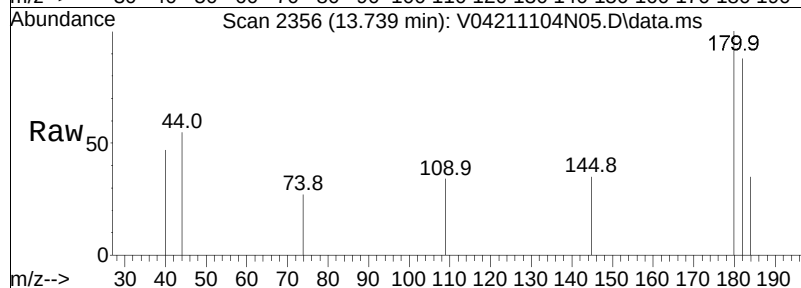
Concen: 0.26 ug/L

RT: 13.739 min Scan# 2356

Delta R.T. 0.015 min

Lab File: V04211104N05.D

Acq: 4 Nov 2021 7:40 pm



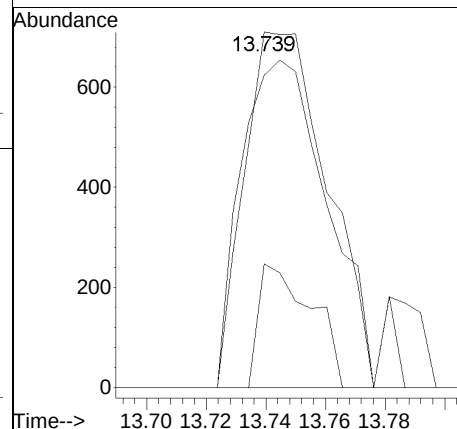
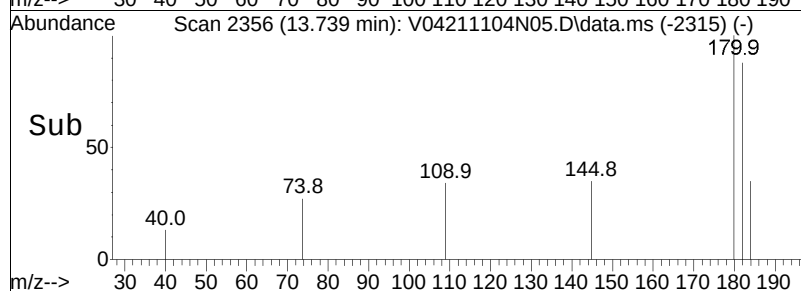
Tgt Ion:180 Resp: 1370

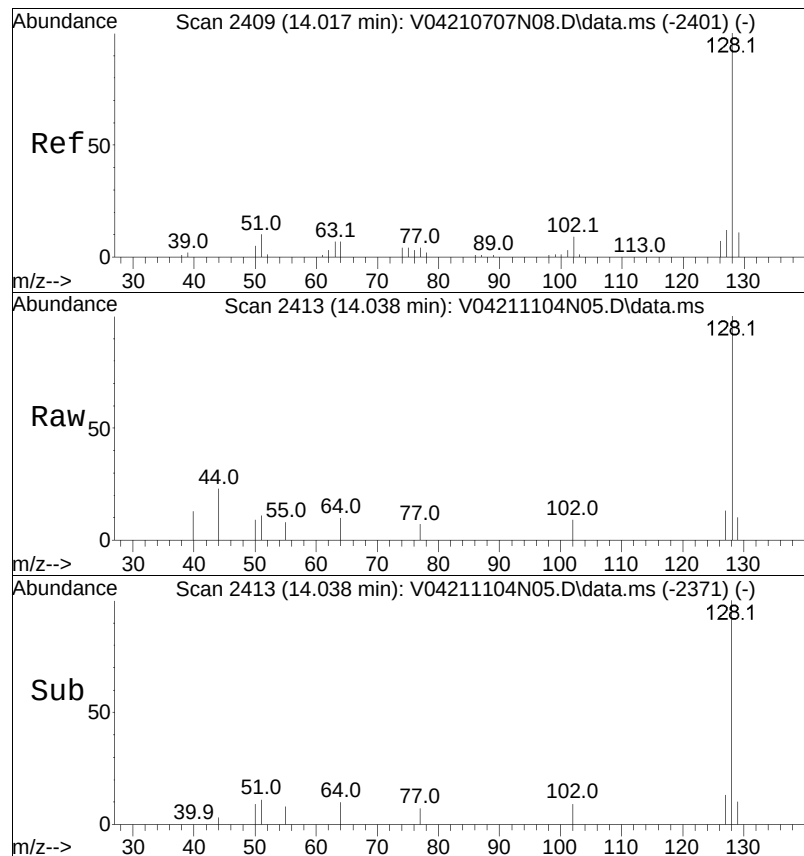
Ion Ratio Lower Upper

180 100

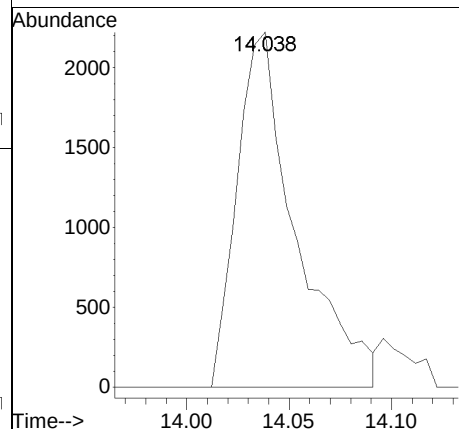
182 99.6 77.0 115.4

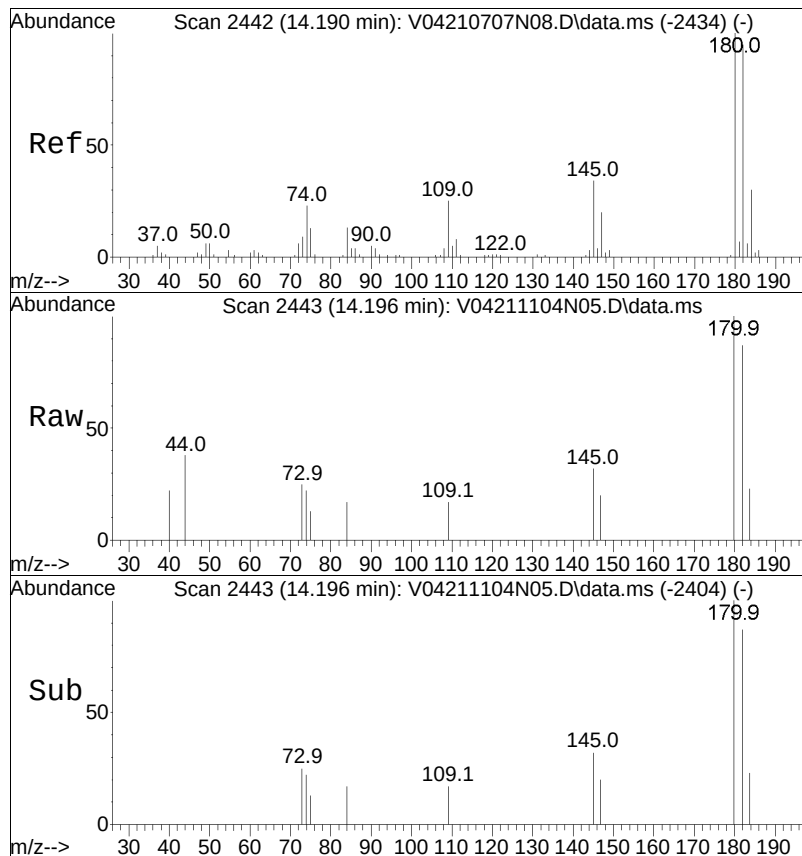
145 22.2 28.4 42.6#





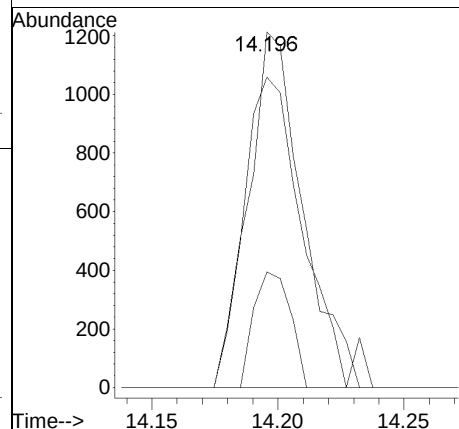
#110
 Naphthalene
 Concen: 0.40 ug/L
 RT: 14.038 min Scan# 2413
 Delta R.T. 0.021 min
 Lab File: V04211104N05.D
 Acq: 4 Nov 2021 7:40 pm
 Tgt Ion:128 Resp: 4442





#111
 1,2,3-Trichlorobenzene
 Concen: 0.38 ug/L
 RT: 14.196 min Scan# 2443
 Delta R.T. 0.006 min
 Lab File: V04211104N05.D
 Acq: 4 Nov 2021 7:40 pm

Tgt Ion:	180	Resp:	1831
Ion Ratio	Lower	Upper	
180	100		
182	95.5	75.9	113.9
145	21.8	25.8	38.6#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2021\20	Method	: V104_210707N_8260.m
Data File	: V04211104N05.D	Operator	: VOA104:AJK
Date Inj'd	: 11/4/2021 7:40 pm	Instrument	: VOA104
Sample	: WG1567587-5,31,5,5	Quant Date	: 11/4/2021 8:32 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-3,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.201	96	317596	10.000	ug/L	-0.01
59) Chlorobenzene-d5	8.304	117	234349	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	9.820	152	124409	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	83838	9.591	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.91%		
43) 1,2-Dichloroethane-d4	4.844	65	87780	9.837	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.37%		
60) Toluene-d8	6.941	98	289206	9.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.01%		
83) 4-Bromofluorobenzene	9.143	95	112439	9.857	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.57%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.891	85	67199	8.765	ug/L	100
3) Chloromethane	0.996	50	105819	10.282	ug/L	97
4) Vinyl chloride	1.048	62	87319	9.064	ug/L	98
5) Bromomethane	1.232	94	48552	11.586	ug/L	97
6) Chloroethane	1.310	64	56814	12.718	ug/L	98
7) Trichlorofluoromethane	1.399	101	110363	10.669	ug/L	98
8) Ethyl ether	1.604	74	29937	10.964	ug/L	89
10) 1,1-Dichloroethene	1.730	96	63968	10.745	ug/L	78
11) Carbon disulfide	1.735	76	185556	10.406	ug/L	96
15) Methylene chloride	2.175	84	70899	10.843	ug/L	97
17) Acetone	2.223	43	14099	11.052	ug/L	95
18) trans-1,2-Dichloroethene	2.306	96	71217	10.747	ug/L	89
20) Methyl tert-butyl ether	2.422	73	134891	10.453	ug/L	# 88
23) 1,1-Dichloroethane	2.878	63	152332	10.045	ug/L	99
25) Acrylonitrile	2.941	53	15967	8.523	ug/L	96
27) Vinyl acetate	3.219	43	134660	8.873	ug/L	98
28) cis-1,2-Dichloroethene	3.507	96	78536	9.604	ug/L	# 76
29) 2,2-Dichloropropane	3.633	77	101502	10.999	ug/L	84
30) Bromochloromethane	3.764	128	34286	9.386	ug/L	# 76
32) Chloroform	3.926	83	134839	10.147	ug/L	99
34) Carbon tetrachloride	4.037	117	81759	8.716	ug/L	98
37) 1,1,1-Trichloroethane	4.141	97	107715	9.897	ug/L	# 98
39) 2-Butanone	4.383	43	18279	8.322	ug/L	# 86
40) 1,1-Dichloropropene	4.330	75	87047	9.144	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-3,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Benzene	4.655	78	276961	9.321	ug/L	98
44) 1,2-Dichloroethane	4.928	62	91800	9.525	ug/L	98
48) Trichloroethene	5.405	95	73159	9.458	ug/L	97
50) Dibromomethane	5.872	93	34186	8.917	ug/L	98
51) 1,2-Dichloropropane	5.977	63	78296	9.684	ug/L	93
54) Bromodichloromethane	6.097	83	81077	8.922	ug/L	97
57) 1,4-Dioxane	6.338	88	14459	471.585	ug/L	96
58) cis-1,3-Dichloropropene	6.768	75	83092	8.117	ug/L	94
61) Toluene	6.988	92	172524	9.304	ug/L	96
62) 4-Methyl-2-pentanone	7.424	58	12040	7.007	ug/L #	70
63) Tetrachloroethene	7.366	166	70292	9.562	ug/L	92
65) trans-1,3-Dichloropropene	7.445	75	62285	7.920	ug/L	91
68) 1,1,2-Trichloroethane	7.581	83	37666	9.218	ug/L	93
69) Chlorodibromomethane	7.728	129	46441	7.883	ug/L	96
70) 1,3-Dichloropropane	7.801	76	77673	9.062	ug/L	99
71) 1,2-Dibromoethane	7.885	107	41490	8.955	ug/L	98
72) 2-Hexanone	8.152	43	21843	7.234	ug/L	91
73) Chlorobenzene	8.315	112	189471	9.589	ug/L	91
74) Ethylbenzene	8.362	91	324915	9.591	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.378	131	54394	8.563	ug/L	94
76) p/m Xylene	8.472	106	250629	19.630	ug/L	99
77) o Xylene	8.761	106	236462	19.413	ug/L	98
78) Styrene	8.803	104	395583	20.840	ug/L	93
80) Bromoform	8.808	173	22775	7.505	ug/L	92
82) Isopropylbenzene	8.976	105	313724	9.722	ug/L	95
84) Bromobenzene	9.201	156	74823	9.301	ug/L	96
85) n-Propylbenzene	9.238	91	384219	9.965	ug/L	98
87) 1,1,2,2-Tetrachloroethane	9.295	83	44869	8.563	ug/L	92
88) 4-Ethyltoluene	9.311	105	313839	10.121	ug/L	97
89) 2-Chlorotoluene	9.322	91	278117	10.165	ug/L	97
90) 1,3,5-Trimethylbenzene	9.369	105	261430	9.576	ug/L	92
91) 1,2,3-Trichloropropane	9.364	75	37813M1	8.630	ug/L	
92) trans-1,4-Dichloro-2-b...	9.400	53	14711	8.289	ug/L #	74
93) 4-Chlorotoluene	9.426	91	241752	9.721	ug/L	96
94) tert-Butylbenzene	9.552	119	229197	9.475	ug/L	95
97) 1,2,4-Trimethylbenzene	9.594	105	256498	9.560	ug/L	93
98) sec-Butylbenzene	9.657	105	344512	9.982	ug/L	99
99) p-Isopropyltoluene	9.746	119	292993	9.795	ug/L	96
100) 1,3-Dichlorobenzene	9.778	146	153846	9.679	ug/L	99
101) 1,4-Dichlorobenzene	9.830	146	153015	9.487	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A01.d
 Acq On : 4 Nov 2021 7:03 am
 Operator : VOA108:PD
 Sample : WG1567182-3,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102)	p-Diethylbenzene	9.956	119	174515	9.802	ug/L	92
103)	n-Butylbenzene	9.987	91	272704	10.218	ug/L	99
104)	1,2-Dichlorobenzene	10.071	146	137842	9.418	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.417	119	257356	8.662	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.527	155	5209	7.319	ug/L	94
108)	Hexachlorobutadiene	10.889	225	46623	9.469	ug/L	96
109)	1,2,4-Trichlorobenzene	10.905	180	82851	8.302	ug/L	97
110)	Naphthalene	11.083	128	116685	6.623	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	62491	7.288	ug/L	99

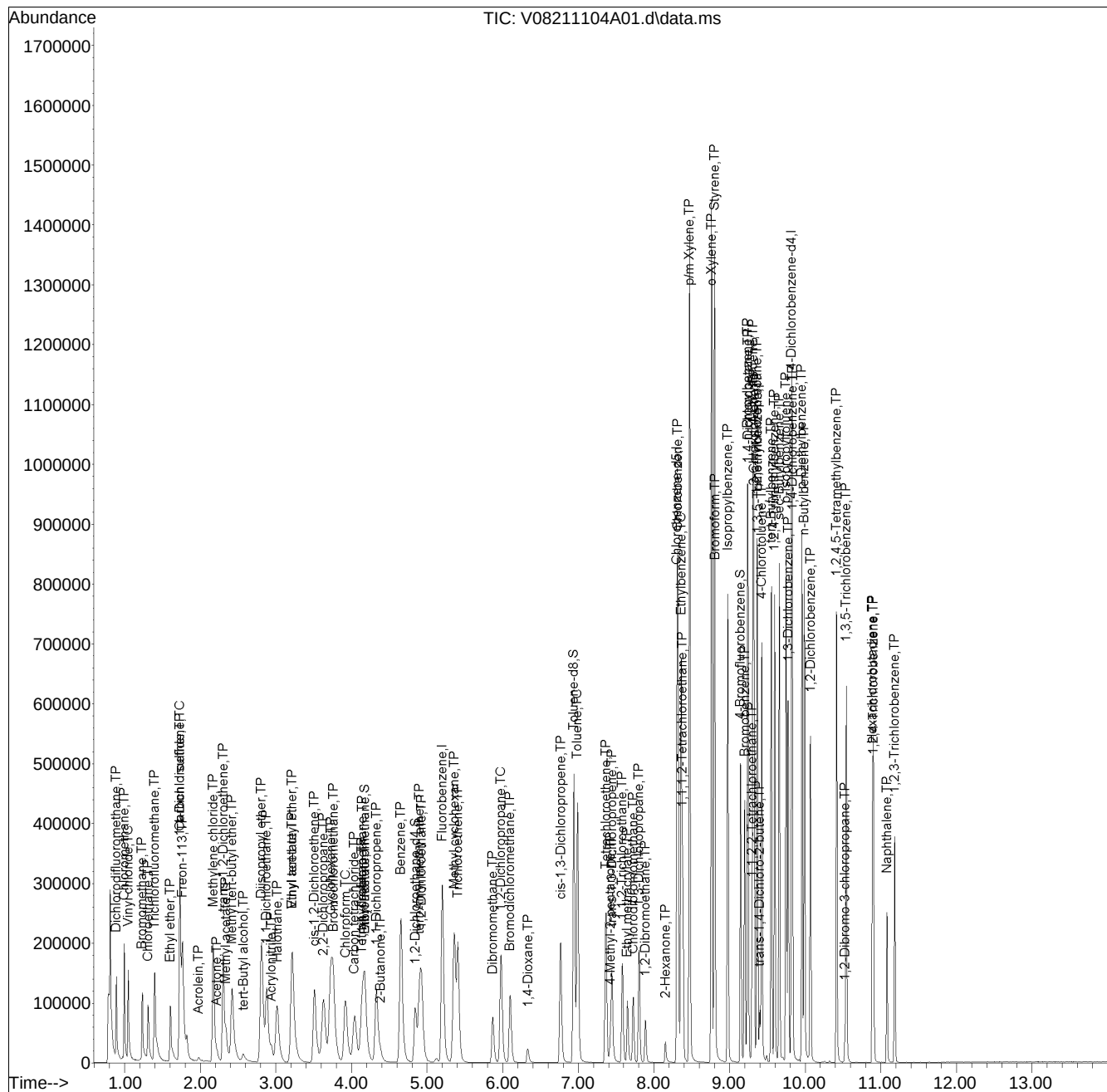
(#) = qualifier out of range (m) = manual integration (+) = signals summed

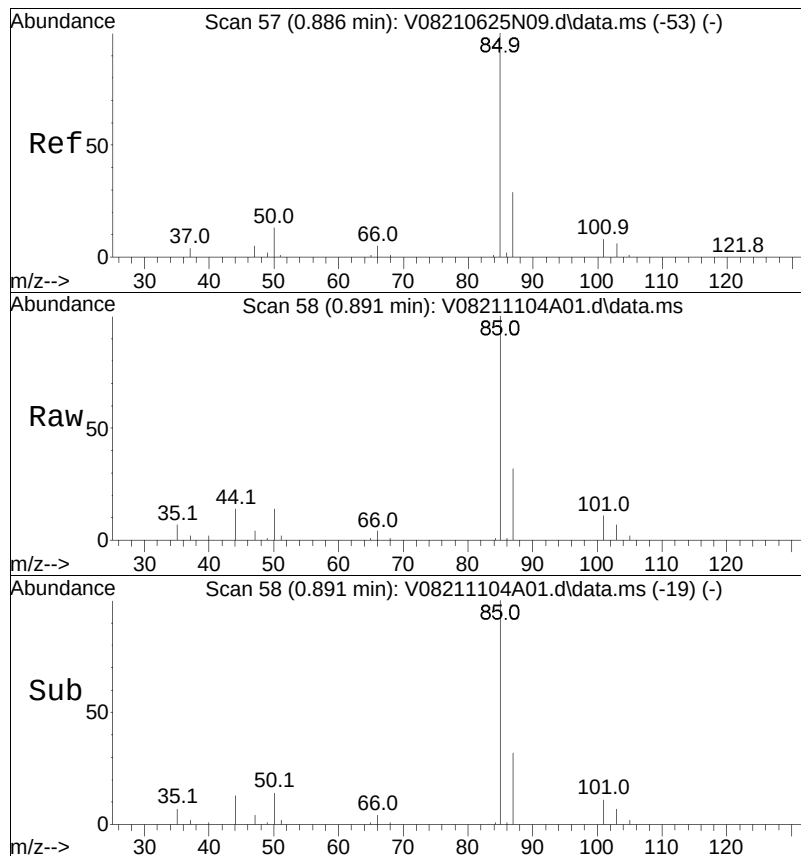
(QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
Data File : V08211104A01.d
Acq On : 4 Nov 2021 7:03 am
Operator : VOA108:PD
Sample : WG1567182-3, 31, 10, 10
Misc : WG1567182, ICAL18356
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 07:51:40 2021
Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:31:08 2021
Response via : Initial Calibration

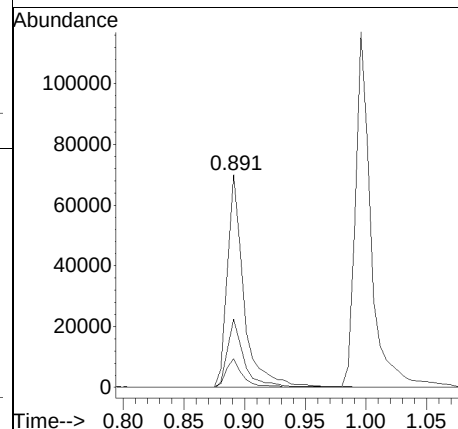
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

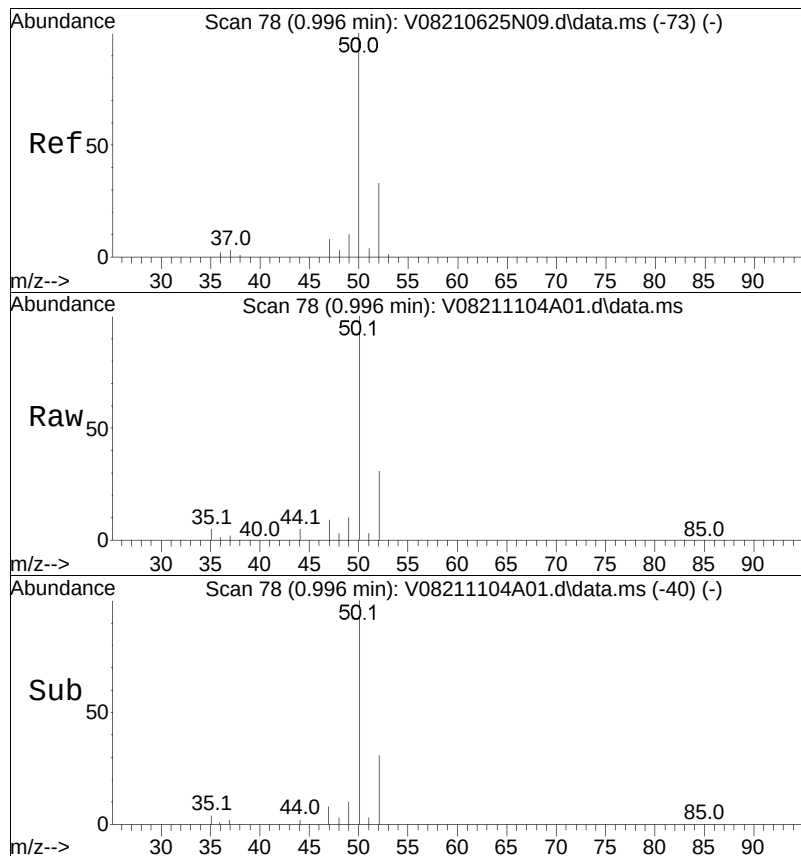




#2
 Dichlorodifluoromethane
 Concen: 8.77 ug/L
 RT: 0.891 min Scan# 58
 Delta R.T. 0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

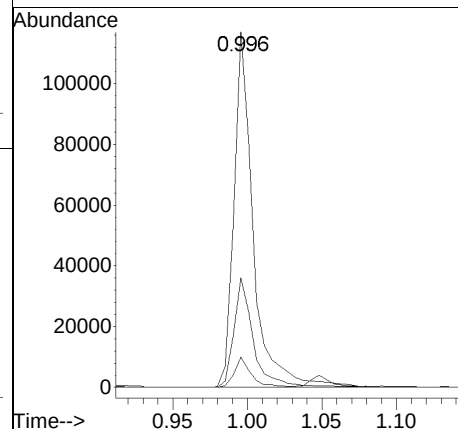
Tgt Ion:	85	Resp:	67199
Ion Ratio	Lower	Upper	
85	100		
87	32.3	21.0	43.6
50	13.5	8.9	18.5

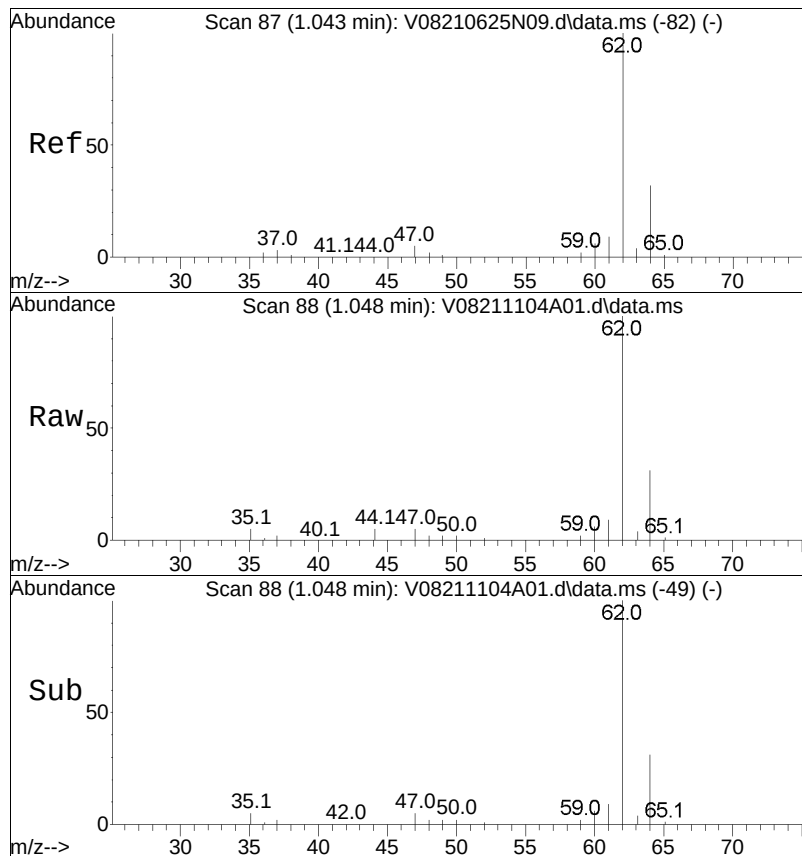




#3
 Chloromethane
 Concen: 10.28 ug/L
 RT: 0.996 min Scan# 78
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

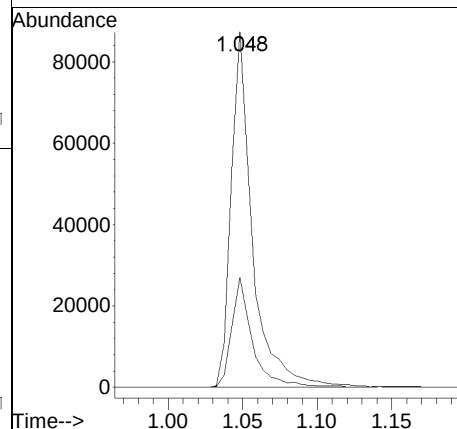
Tgt Ion:	50	Resp:	105819
Ion Ratio	Lower	Upper	
50	100		
52	31.2	12.9	52.9
47	7.4	0.0	28.3

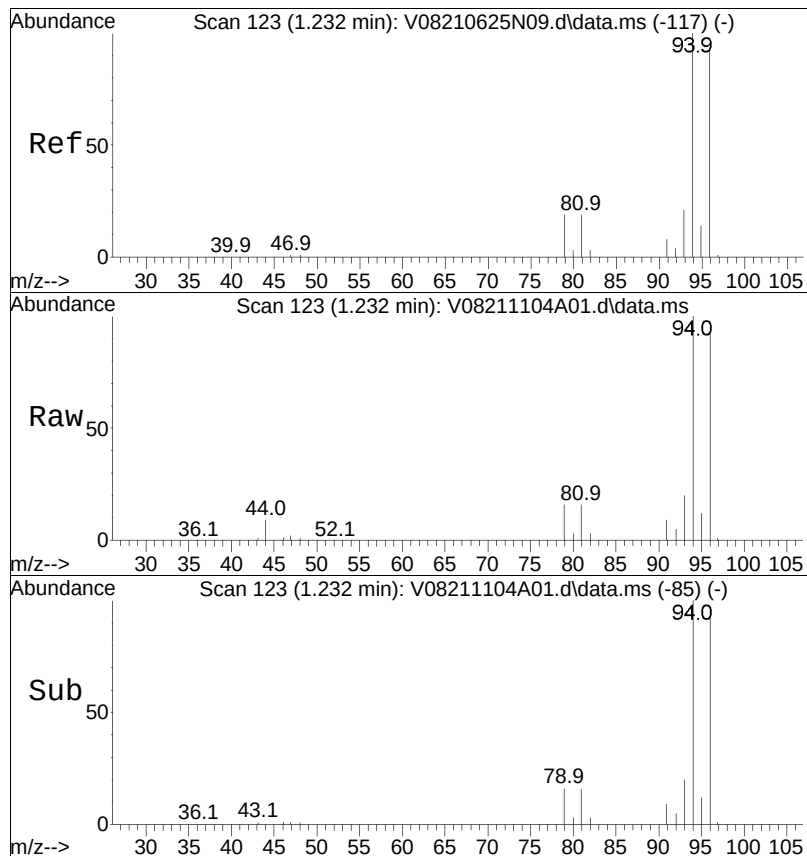




#4
 Vinyl chloride
 Concen: 9.06 ug/L
 RT: 1.048 min Scan# 88
 Delta R.T. 0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

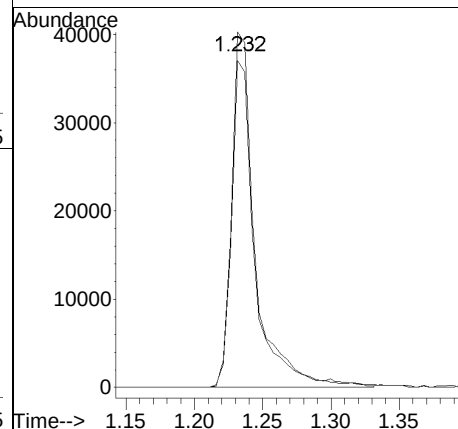
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	30.3	9.1	49.1	

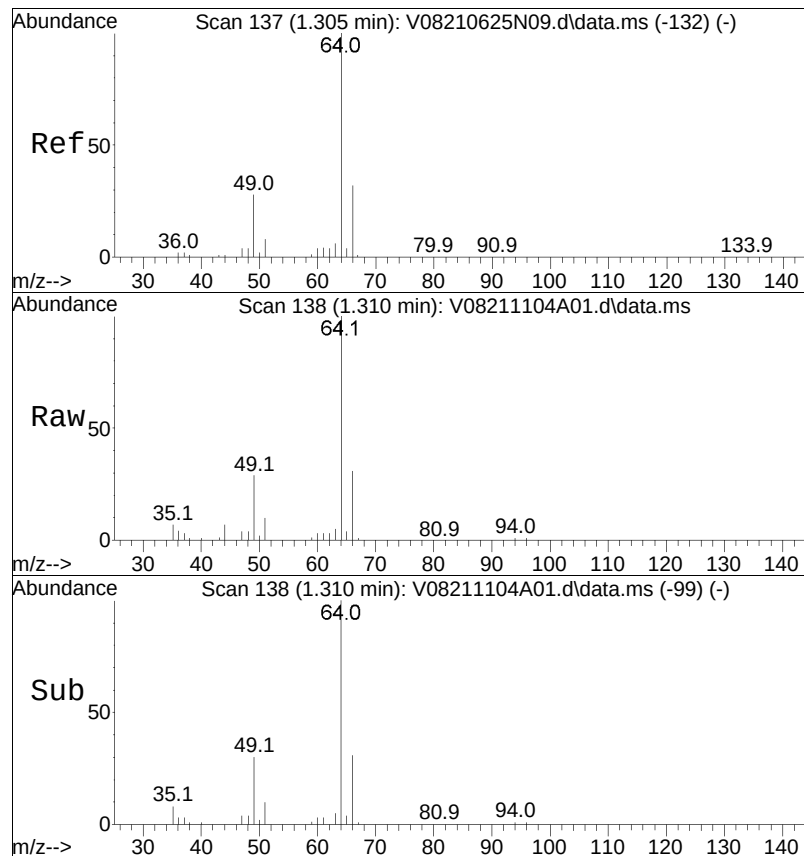




#5
 Bromomethane
 Concen: 11.59 ug/L
 RT: 1.232 min Scan# 123
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

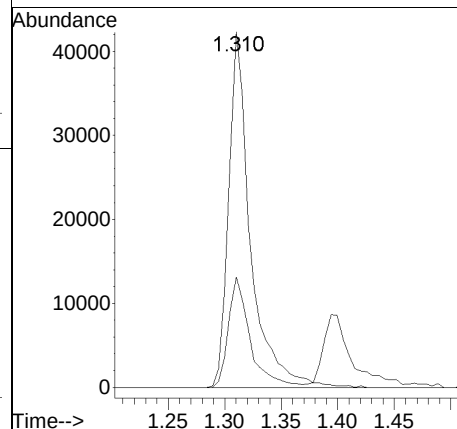
Tgt Ion: 94 Resp: 48552
 Ion Ratio Lower Upper
 94 100
 96 92.5 75.6 115.6

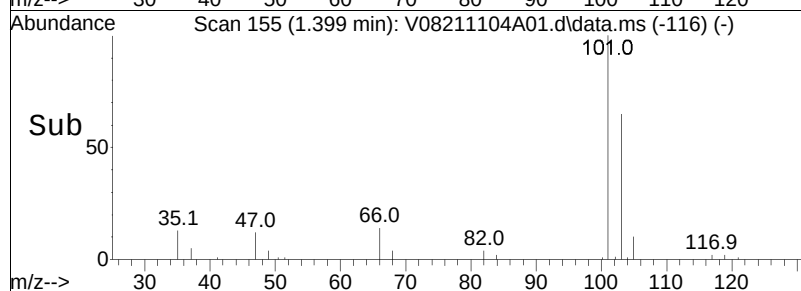
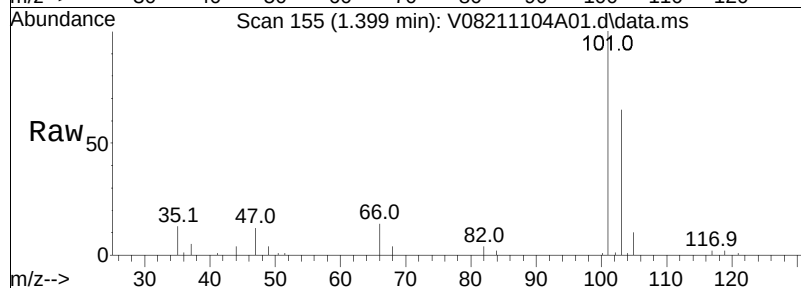
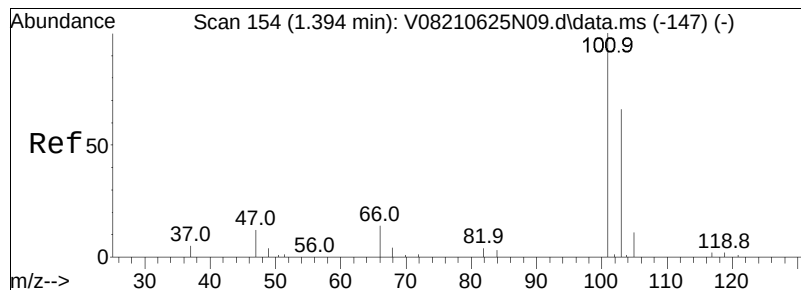




#6
 Chloroethane
 Concen: 12.72 ug/L
 RT: 1.310 min Scan# 138
 Delta R.T. 0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

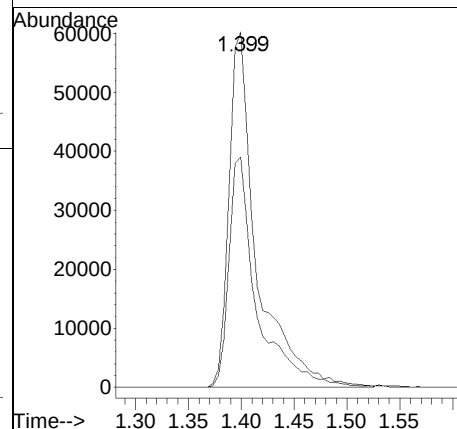
Tgt	Ion	Resp	Lower	Upper
64	100	56814		
66	30.9	9.8	49.8	

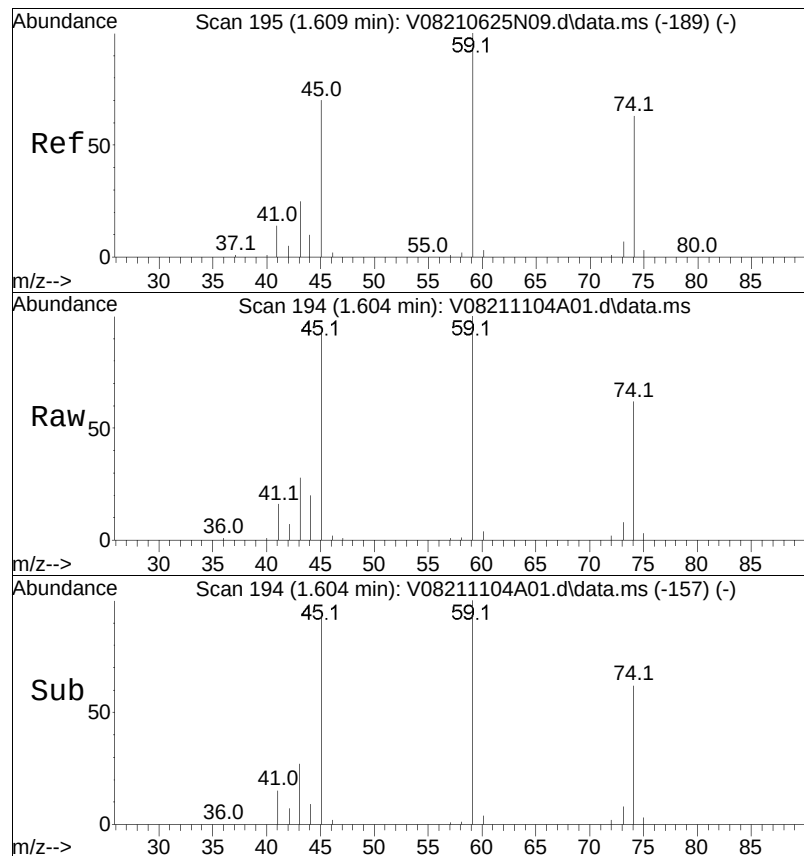




#7
 Trichlorofluoromethane
 Concen: 10.67 ug/L
 RT: 1.399 min Scan# 155
 Delta R.T. 0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

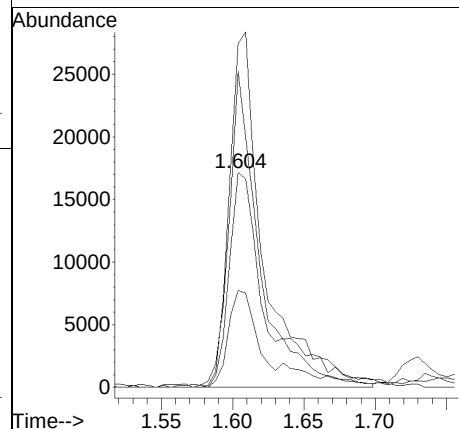
Tgt Ion:101 Resp: 110363
 Ion Ratio Lower Upper
 101 100
 103 65.2 53.8 80.6

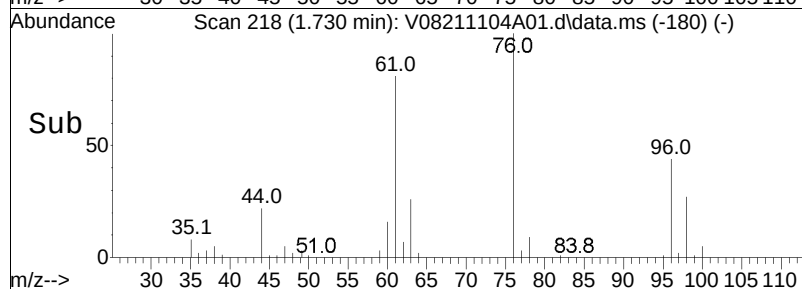
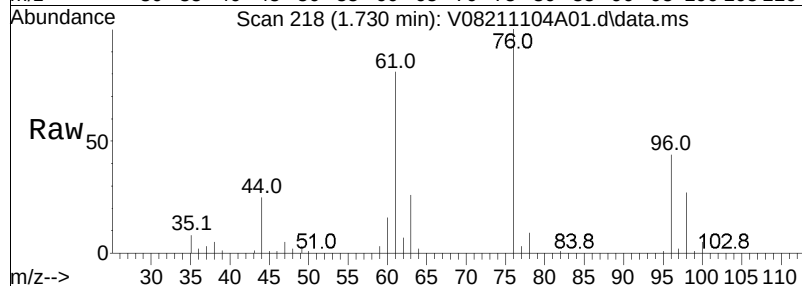
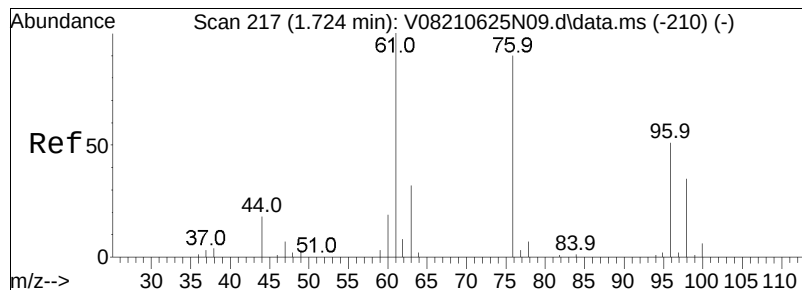




#8
 Ethyl ether
 Concen: 10.96 ug/L
 RT: 1.604 min Scan# 194
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

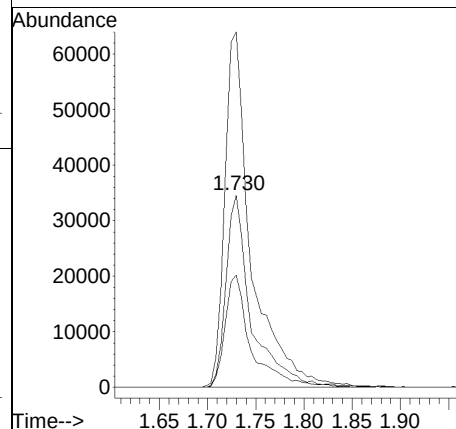
Tgt Ion:	74	Resp:	29937
Ion	Ratio	Lower	Upper
74	100		
59	162.2	122.2	253.8
45	137.4	91.9	190.9
43	36.6	25.2	52.2

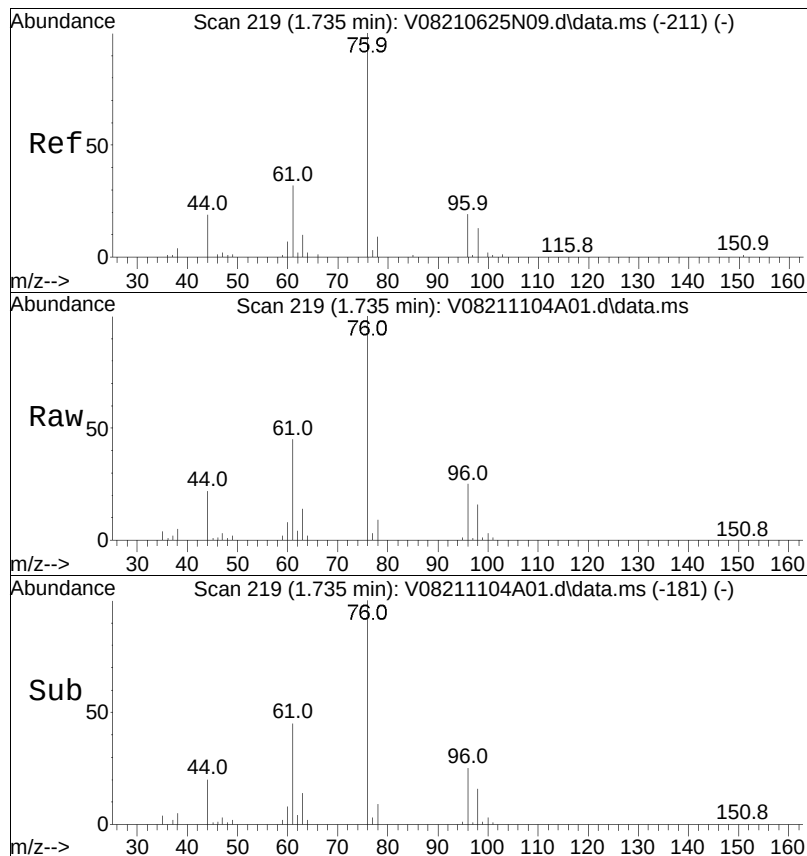




#10
 1,1-Dichloroethene
 Concen: 10.74 ug/L
 RT: 1.730 min Scan# 218
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

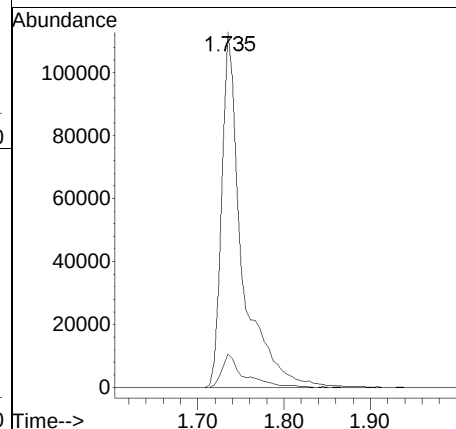
Tgt Ion:	96	Resp:	63968
Ion Ratio	Lower	Upper	
96	100		
61	192.2	186.1	279.1
63	60.2	57.6	86.4

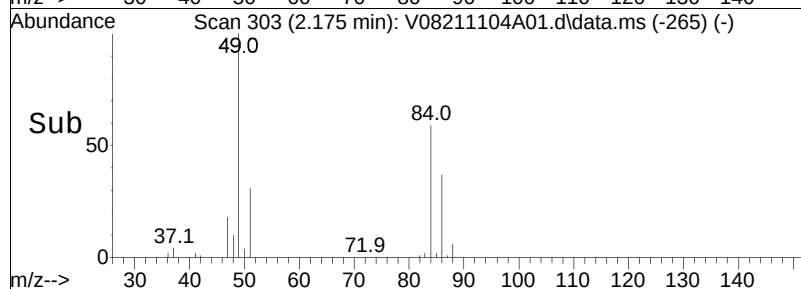
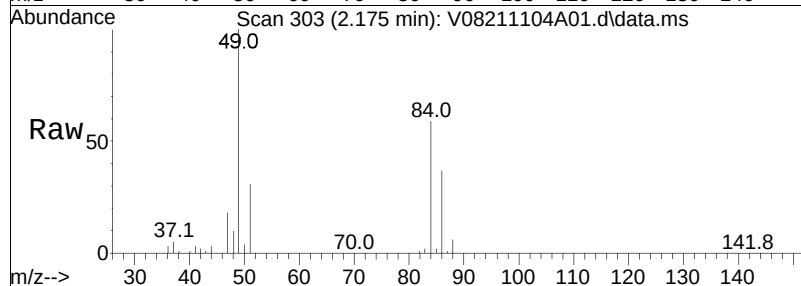
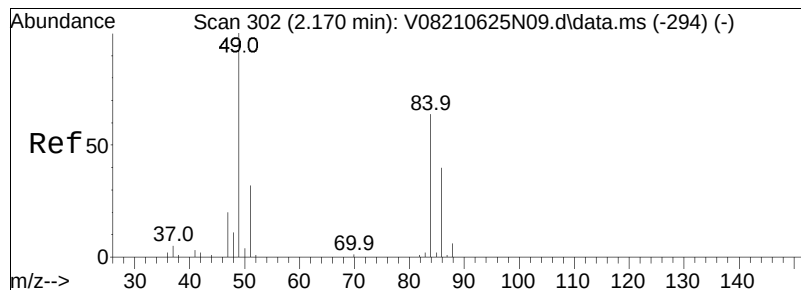




#11
 Carbon disulfide
 Concen: 10.41 ug/L
 RT: 1.735 min Scan# 219
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

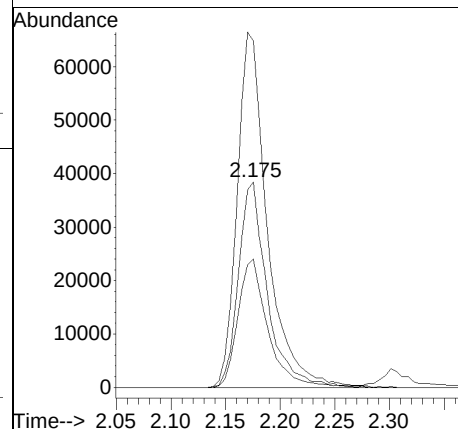
Tgt Ion:	76	78	Ratio	100	10.3	Resp:	185556	Lower	5.7	Upper	11.7
Ion	76	78	Ratio	100	10.3	Resp:	185556	Lower	5.7	Upper	11.7

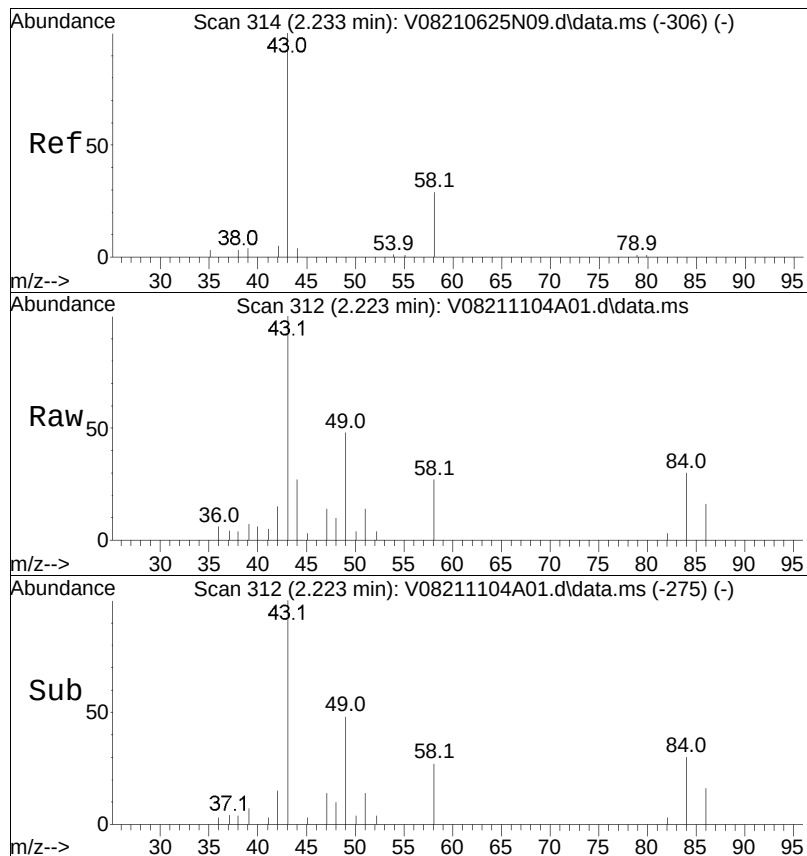




#15
Methylene chloride
Concen: 10.84 ug/L
RT: 2.175 min Scan# 303
Delta R.T. -0.001 min
Lab File: V08211104A01.d
Acq: 4 Nov 2021 7:03 am

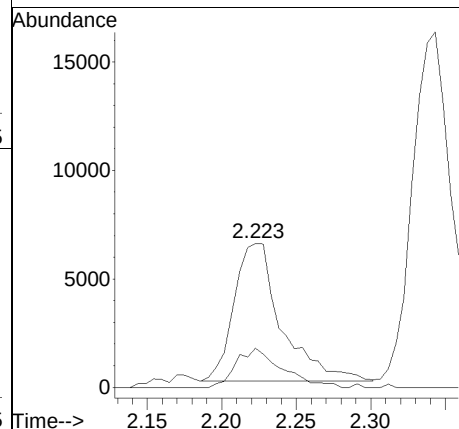
Tgt	Ion	Resp	Lower	Upper
84	100			
86	64.3	40.4	83.8	
49	179.8	120.0	249.2	

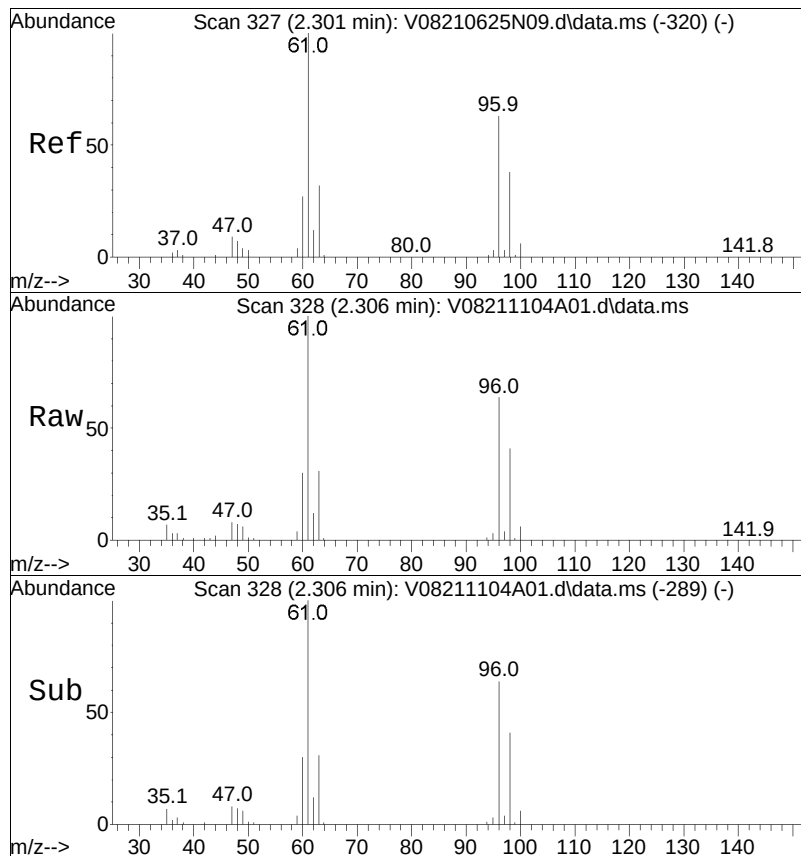




#17
 Acetone
 Concen: 11.05 ug/L
 RT: 2.223 min Scan# 312
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

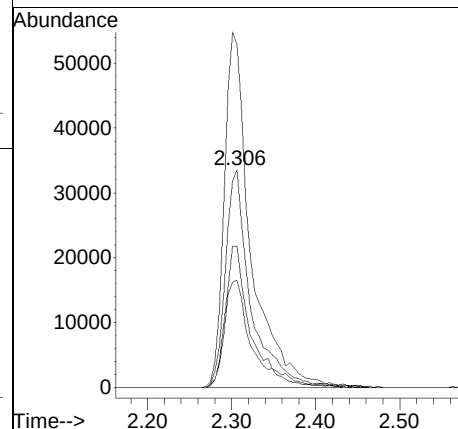
Tgt Ion:	43	58	Ratio	100	27.5	Resp:	14099	Lower	Upper
								24.2	36.4

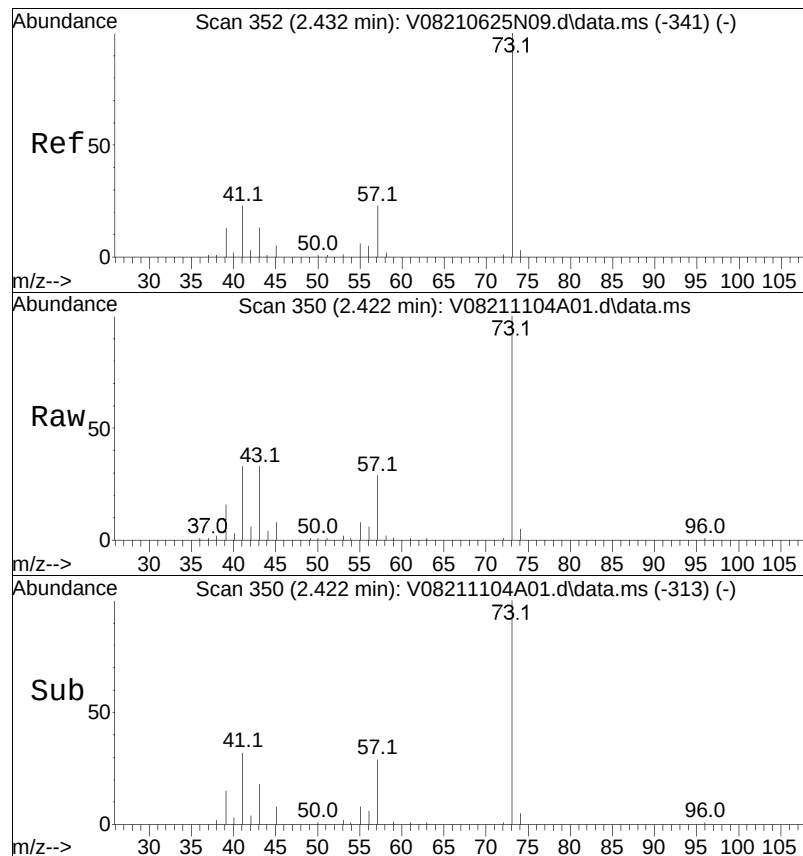




#18
 trans-1,2-Dichloroethene
 Concen: 10.75 ug/L
 RT: 2.306 min Scan# 328
 Delta R.T. 0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt Ion: 96	Resp: 71217
Ion Ratio	Lower Upper
96 100	
61 169.7	124.0 257.6
98 65.3	41.2 85.6
63 52.1	38.4 79.7





#20

Methyl tert-butyl ether

Concen: 10.45 ug/L

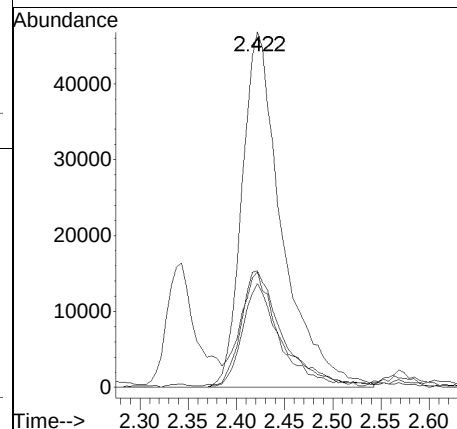
RT: 2.422 min Scan# 350

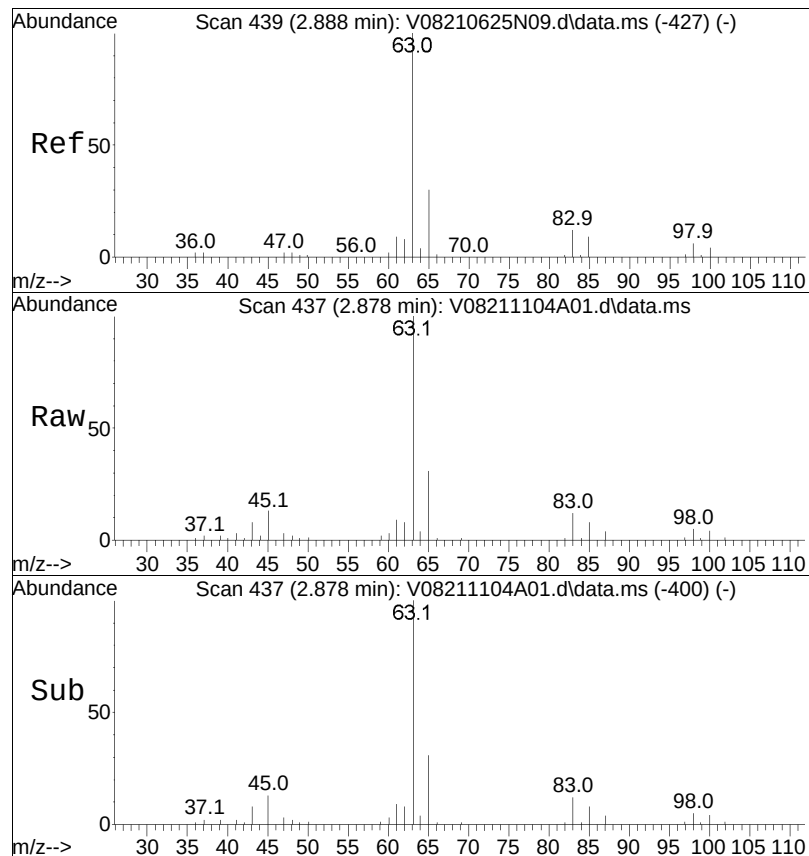
Delta R.T. -0.005 min

Lab File: V08211104A01.d

Acq: 4 Nov 2021 7:03 am

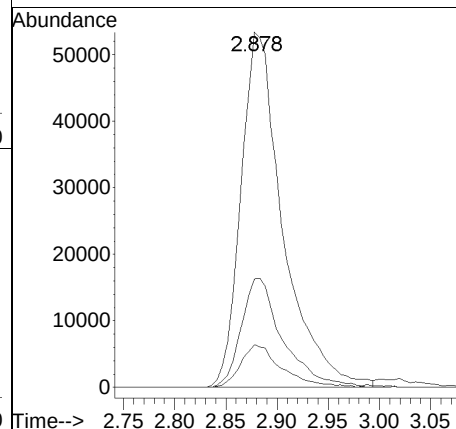
Tgt Ion:	73	Resp:	134891
Ion Ratio	Lower	Upper	
73	100		
57	28.0	17.5	36.3
43	30.7	15.3	31.9
41	33.1	15.3	31.7#

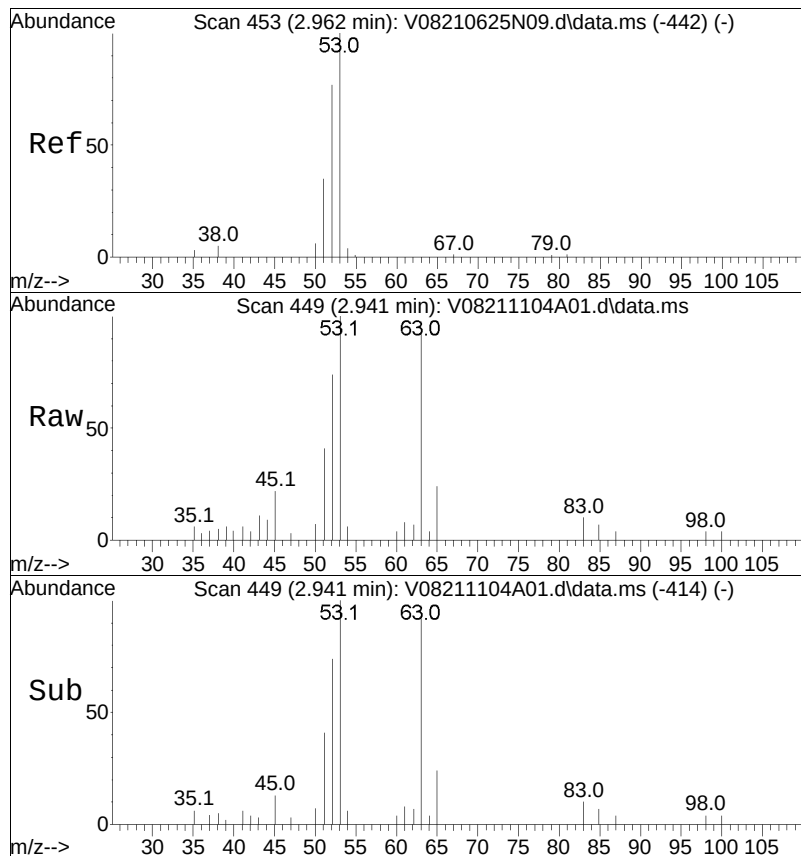




#23
 1,1-Dichloroethane
 Concen: 10.05 ug/L
 RT: 2.878 min Scan# 437
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

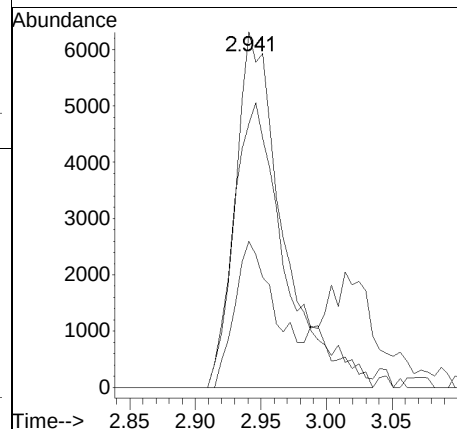
Tgt Ion:	63	Resp:	152332
Ion Ratio	Lower	Upper	
63	100		
65	30.3	11.0	51.0
83	11.9	0.0	31.8

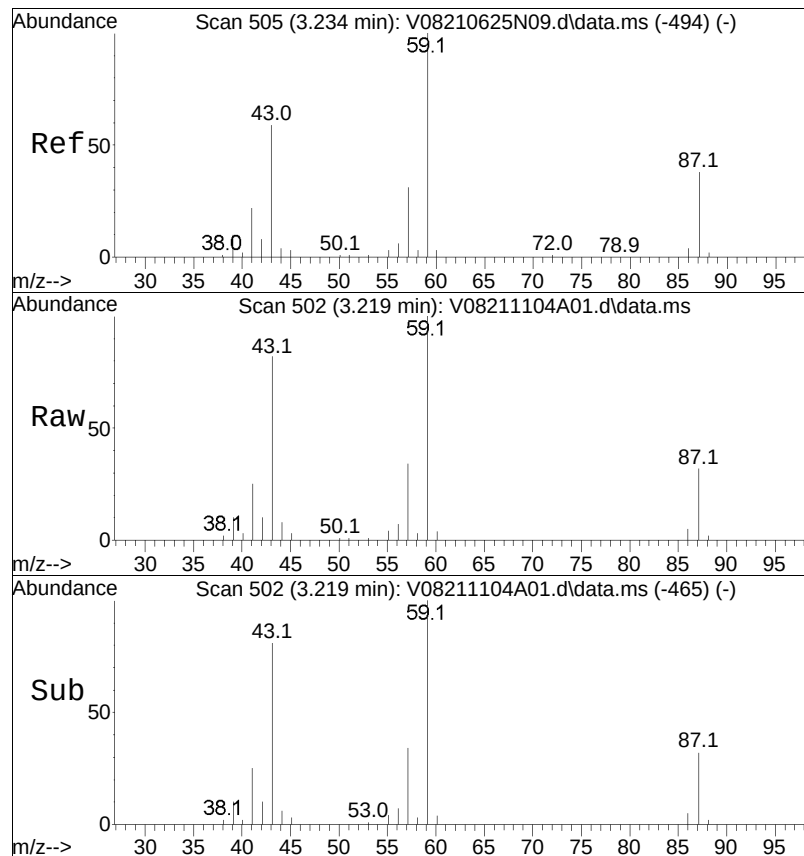




#25
 Acrylonitrile
 Concen: 8.52 ug/L
 RT: 2.941 min Scan# 449
 Delta R.T. -0.016 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

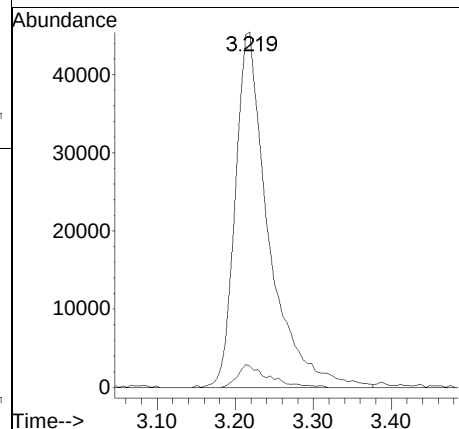
Tgt Ion:	53	Resp:	15967
Ion Ratio	Lower	Upper	
53	100		
52	87.7	66.7	100.1
51	36.7	30.6	46.0

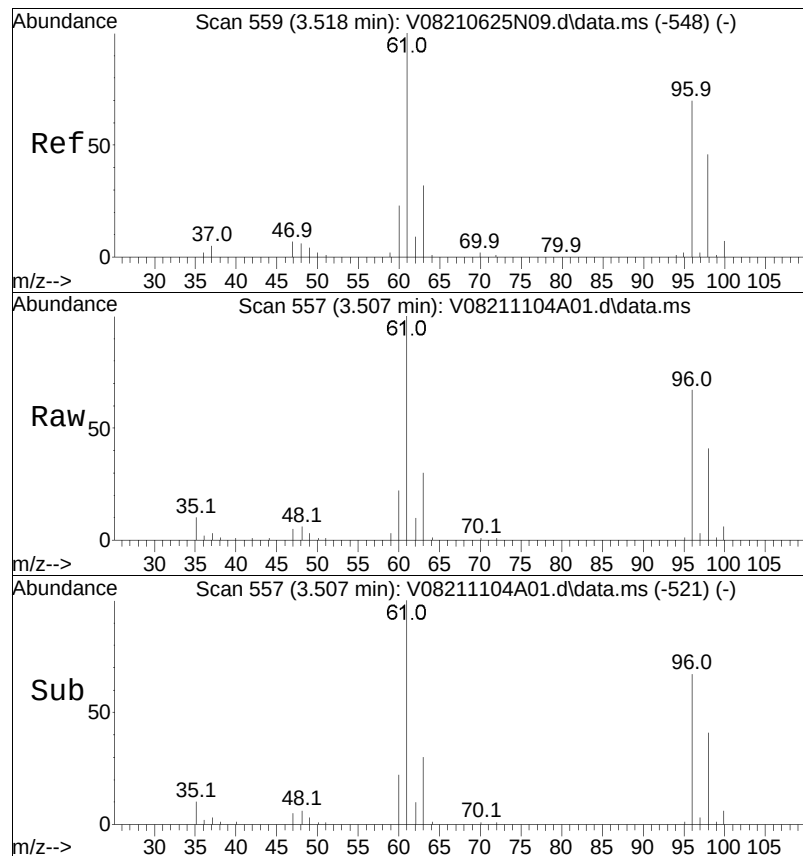




#27
 Vinyl acetate
 Concen: 8.87 ug/L
 RT: 3.219 min Scan# 502
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

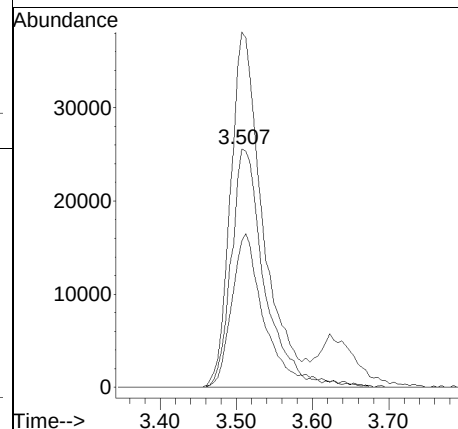
Tgt Ion	Ratio	Lower	Upper
43	100		
86	6.0	5.2	7.8

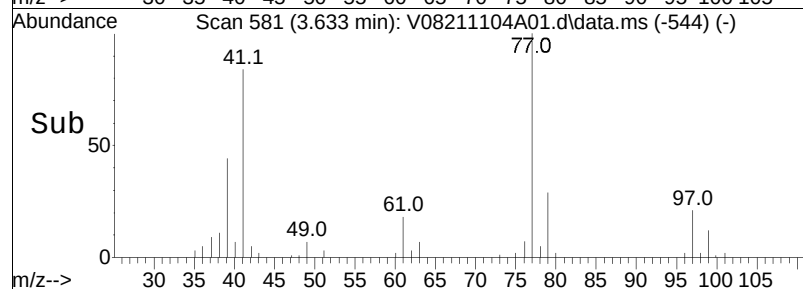
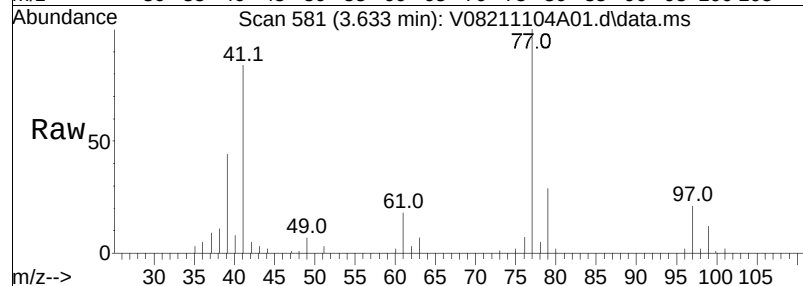
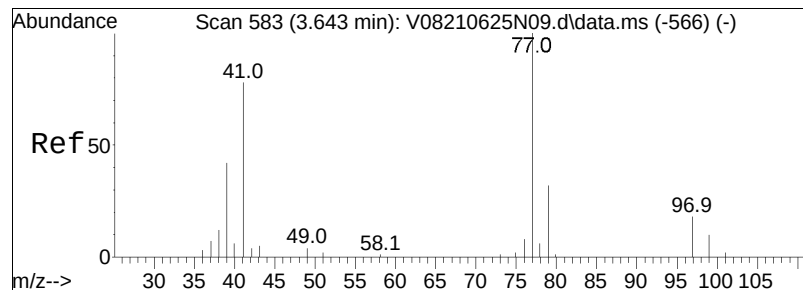




#28
 cis-1,2-Dichloroethene
 Concen: 9.60 ug/L
 RT: 3.507 min Scan# 557
 Delta R.T. -0.011 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt Ion:	96	Resp:	78536
Ion Ratio	Lower	Upper	
96	100		
61	142.4	149.4	224.2#
98	62.0	53.4	80.2





#29

2,2-Dichloropropane

Concen: 11.00 ug/L

RT: 3.633 min Scan# 581

Delta R.T. -0.005 min

Lab File: V08211104A01.d

Acq: 4 Nov 2021 7:03 am

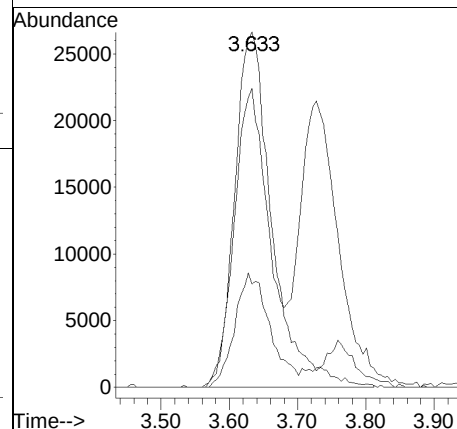
Tgt Ion: 77 Resp: 101502

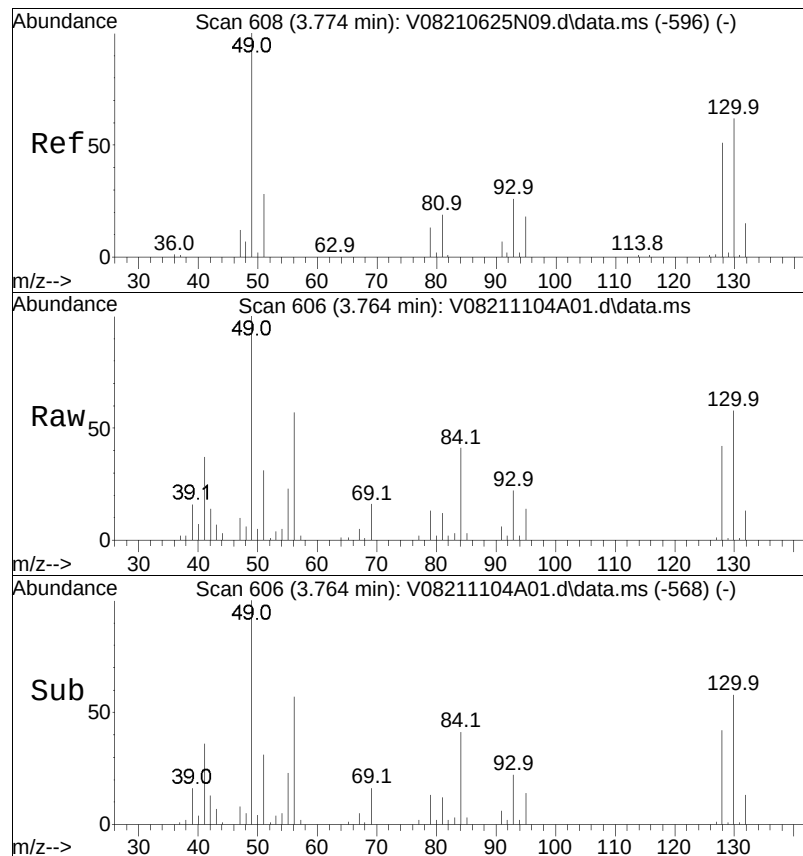
Ion Ratio Lower Upper

77 100

41 75.6 38.0 78.8

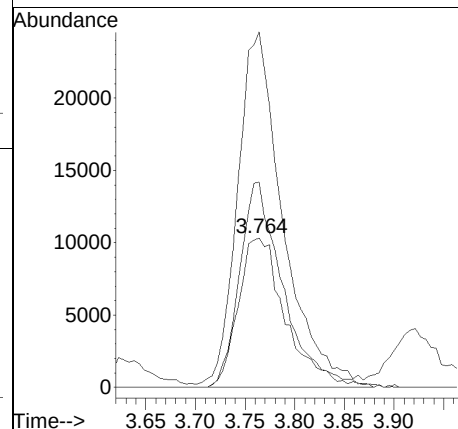
79 30.4 20.5 42.5

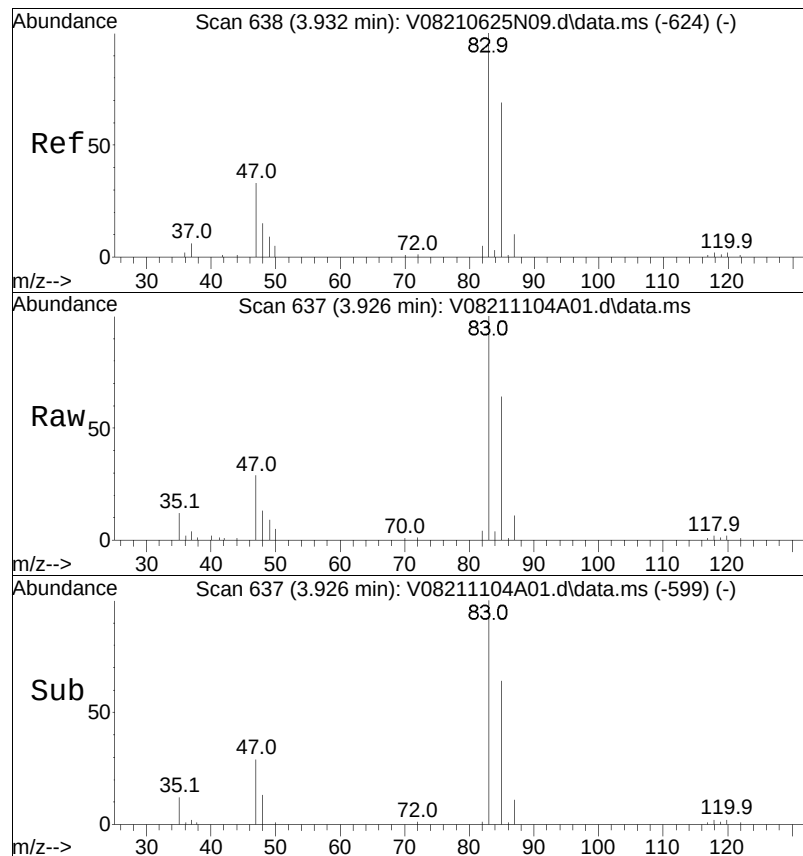




#30
 Bromochloromethane
 Concen: 9.39 ug/L
 RT: 3.764 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

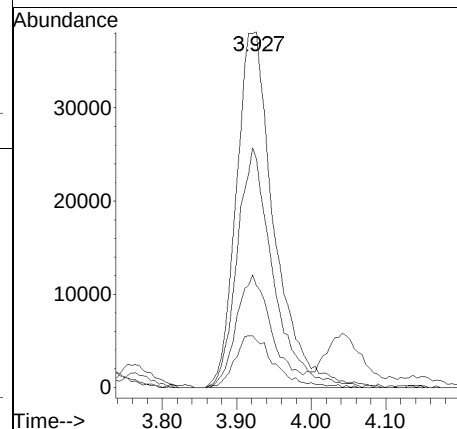
Tgt Ion:	128	Resp:	34286
Ion Ratio	Lower	Upper	
128	100		
49	222.4	223.0	334.4#
130	126.5	111.4	167.0

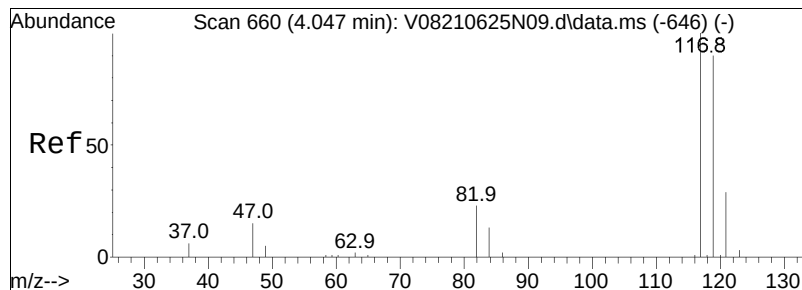




#32
 Chloroform
 Concen: 10.15 ug/L
 RT: 3.926 min Scan# 637
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt	Ion: 83	Resp:	134839
Ion	Ratio	Lower	Upper
83	100		
85	64.1	41.5	86.1
47	29.8	19.0	39.4
48	14.8	9.9	20.5





#34

Carbon tetrachloride

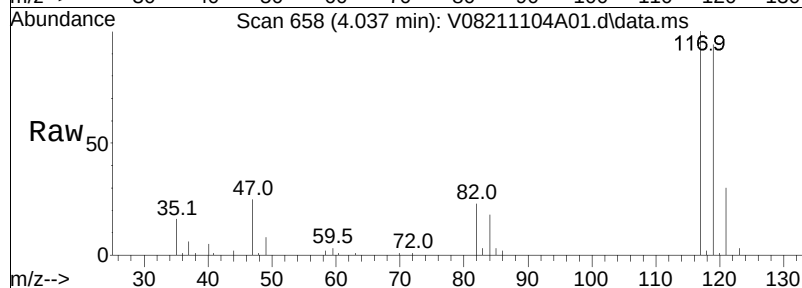
Concen: 8.72 ug/L

RT: 4.037 min Scan# 658

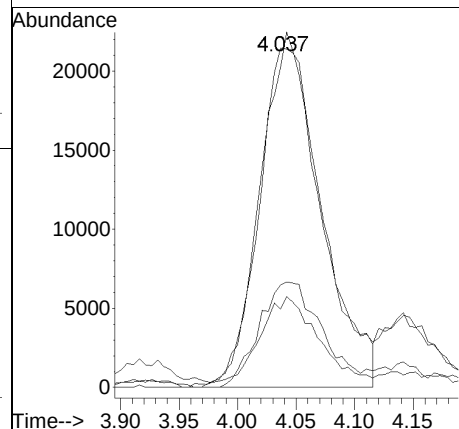
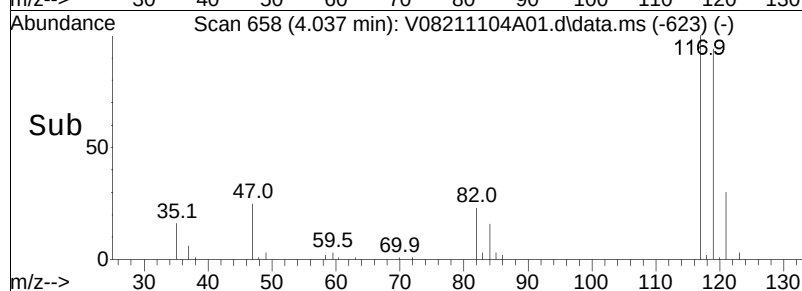
Delta R.T. -0.016 min

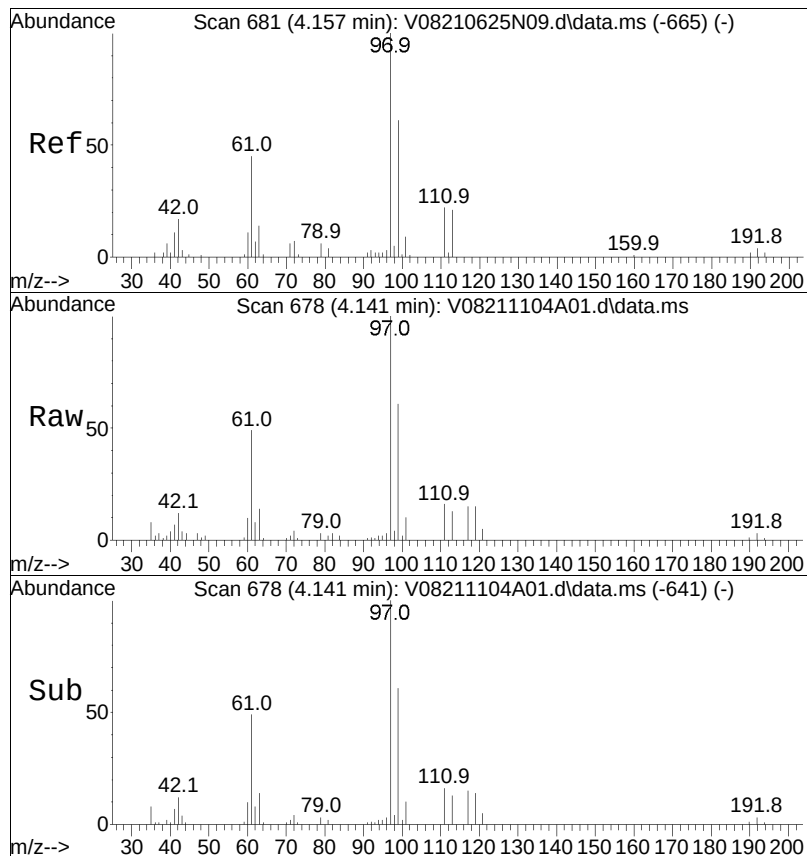
Lab File: V08211104A01.d

Acq: 4 Nov 2021 7:03 am



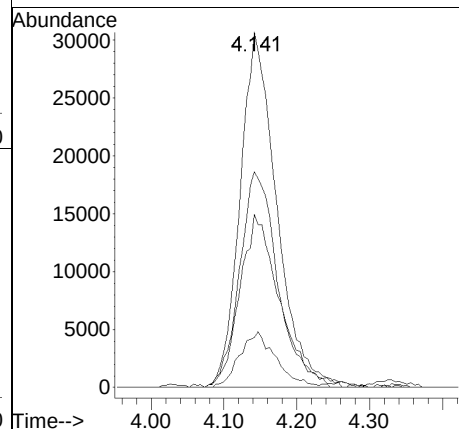
Tgt Ion:	117	Resp:	81759
Ion Ratio	Lower	Upper	
117	100		
119	97.4	62.4	129.6
121	30.2	19.5	40.5
82	22.2	17.0	35.4

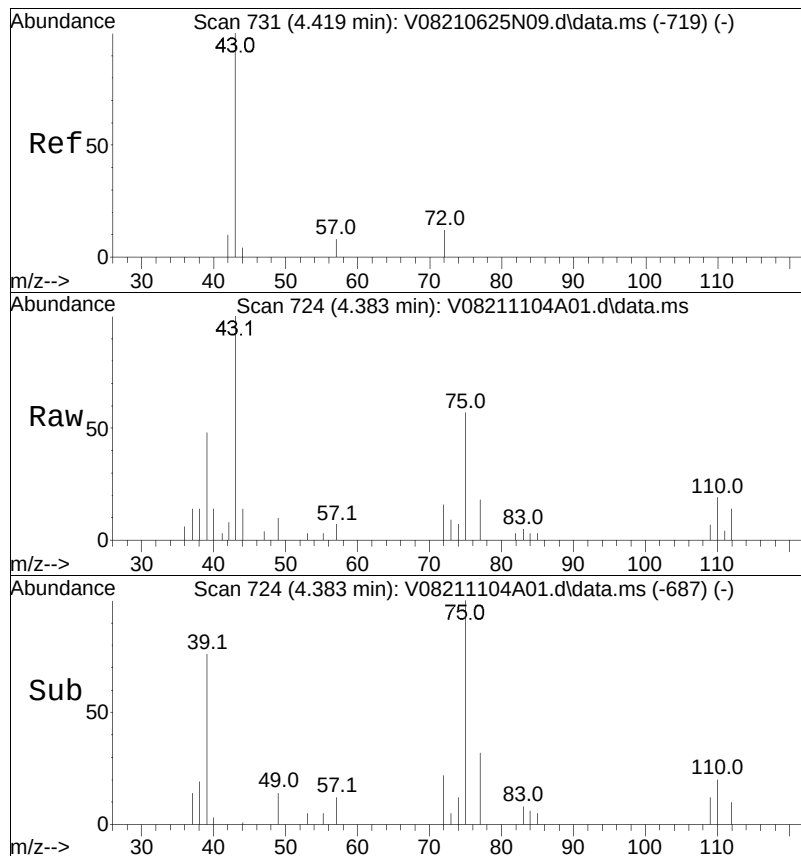




#37
 1,1,1-Trichloroethane
 Concen: 9.90 ug/L
 RT: 4.141 min Scan# 678
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

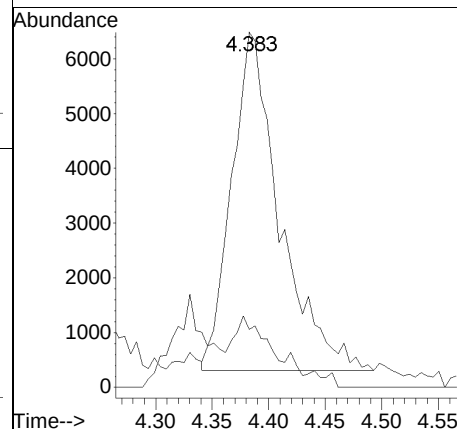
Tgt Ion:	97	Resp:	107715
Ion Ratio	Lower	Upper	
97	100		
99	63.1	40.7	84.5
61	53.5	35.4	73.4
63	15.6	5.0	10.4#

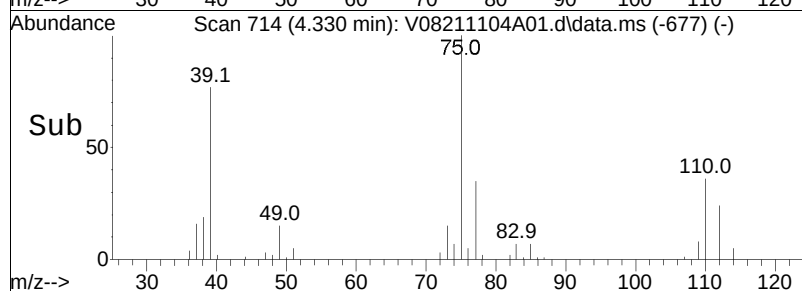
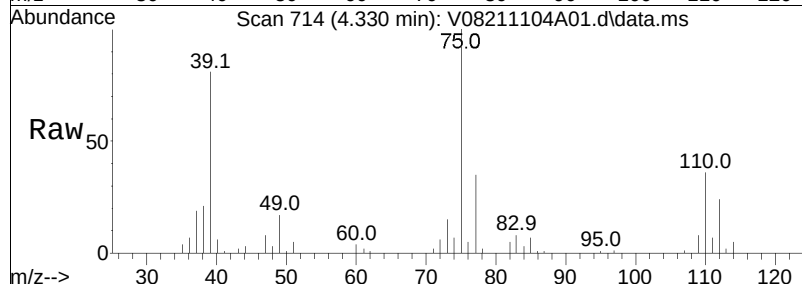
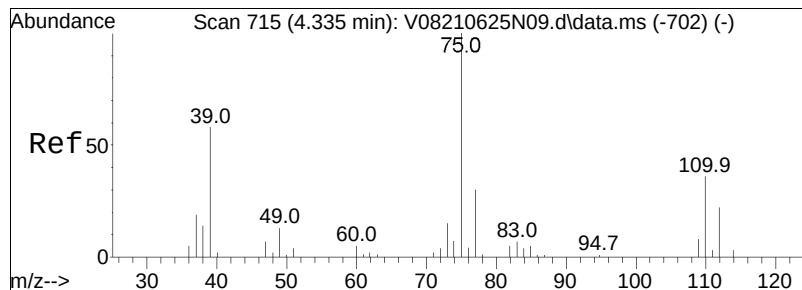




#39
 2-Butanone
 Concen: 8.32 ug/L
 RT: 4.383 min Scan# 724
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt Ion: 43 Resp: 18279
 Ion Ratio Lower Upper
 43 100
 72 19.3 10.9 16.3#





#40

1,1-Dichloropropene

Concen: 9.14 ug/L

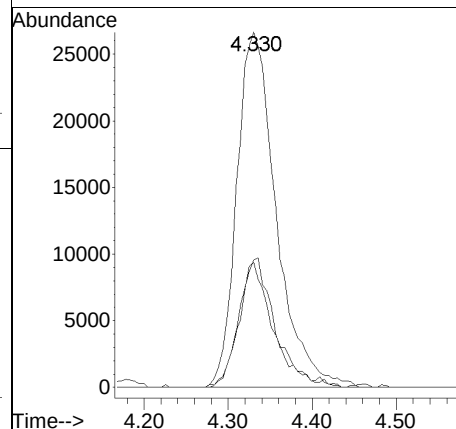
RT: 4.330 min Scan# 714

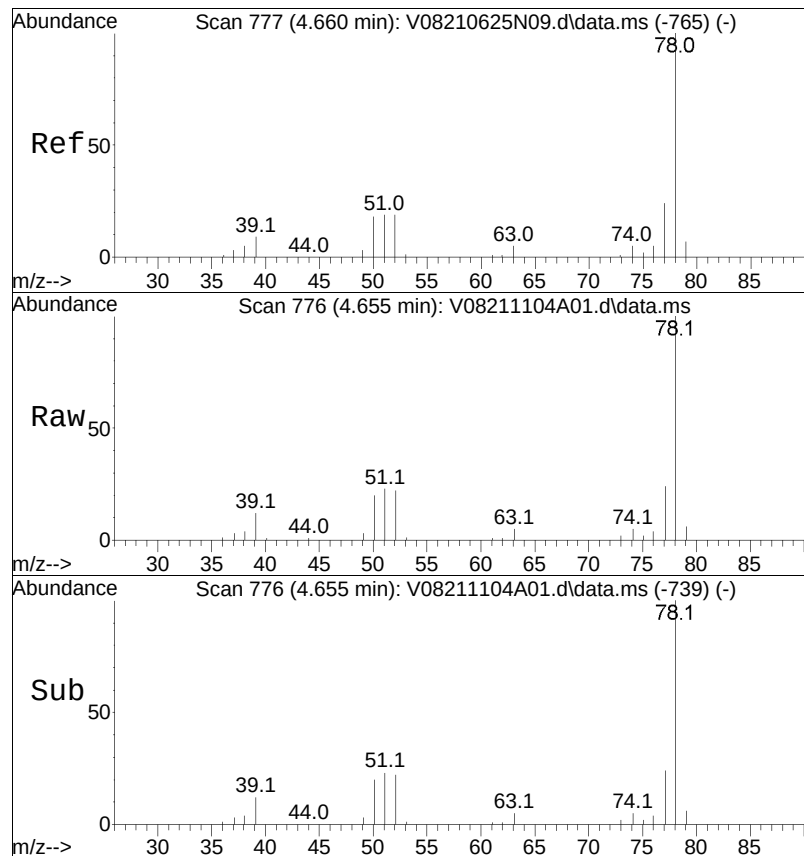
Delta R.T. -0.006 min

Lab File: V08211104A01.d

Acq: 4 Nov 2021 7:03 am

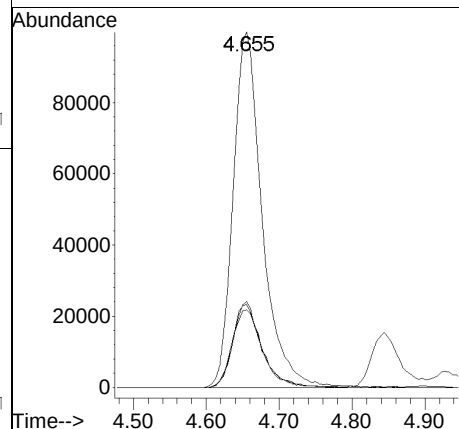
Tgt Ion:	75	Resp:	87047
Ion Ratio	Lower	Upper	
75	100		
110	32.9	20.2	41.9
77	30.3	20.1	41.7

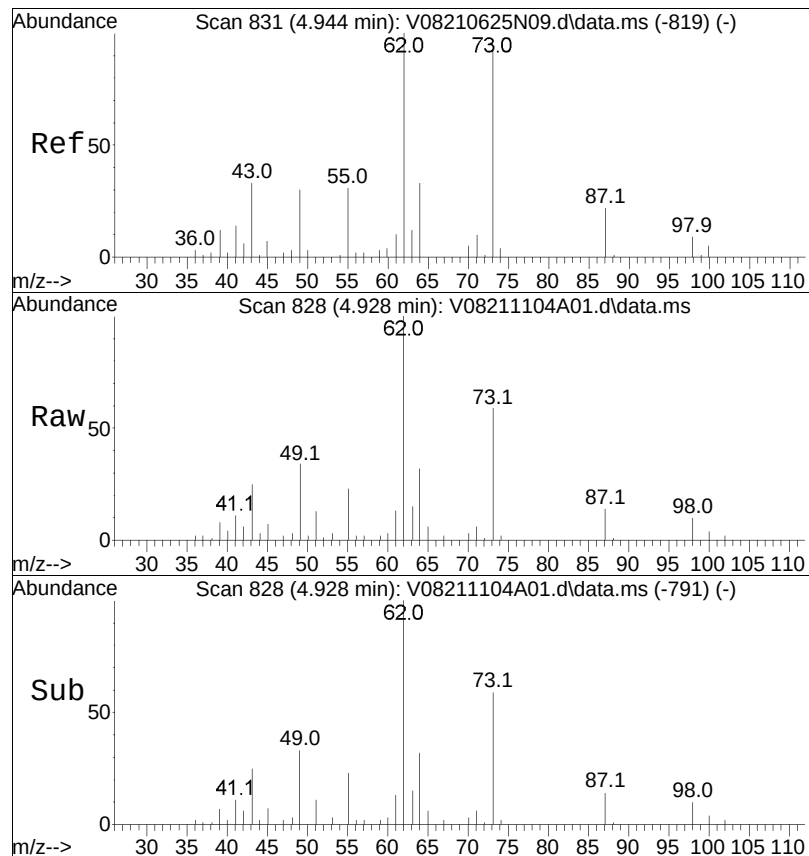




#41
Benzene
Concen: 9.32 ug/L
RT: 4.655 min Scan# 776
Delta R.T. -0.006 min
Lab File: V08211104A01.d
Acq: 4 Nov 2021 7:03 am

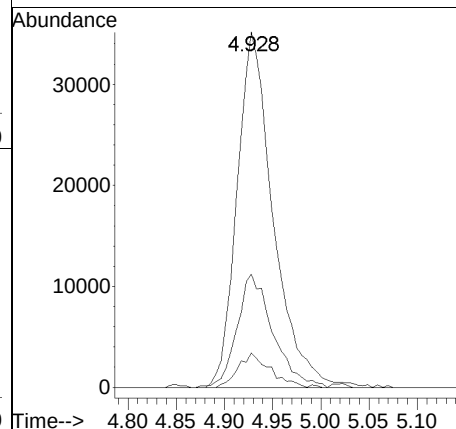
Tgt Ion: 78	Resp: 276961
Ion Ratio	Lower Upper
78 100	
77 23.5	15.7 32.7
51 23.6	16.0 33.2
52 22.5	15.3 31.9

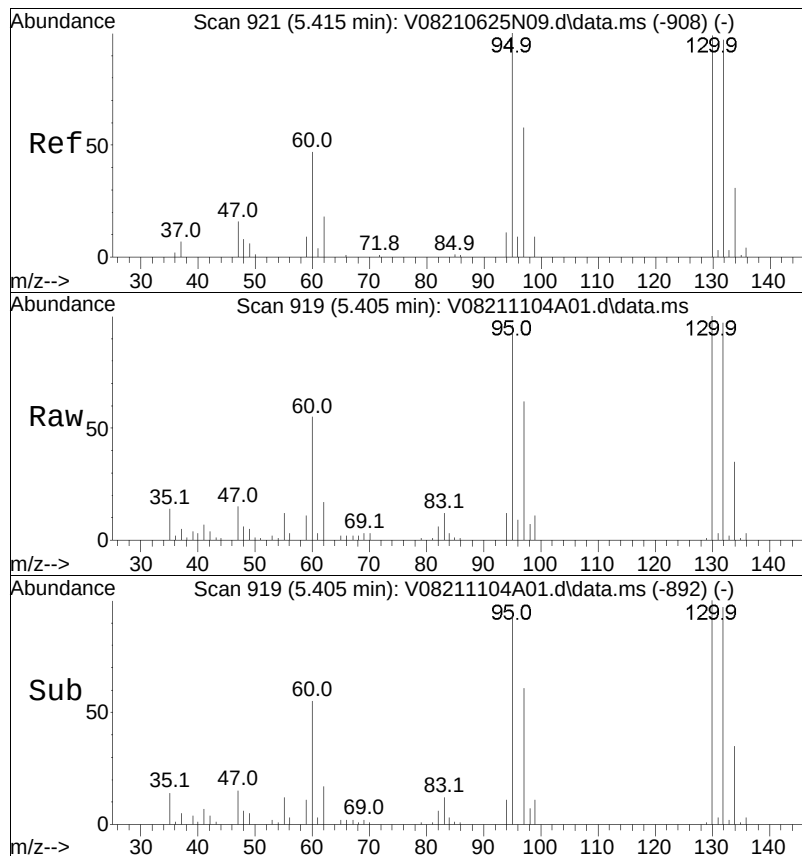




#44
 1,2-Dichloroethane
 Concen: 9.53 ug/L
 RT: 4.928 min Scan# 828
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

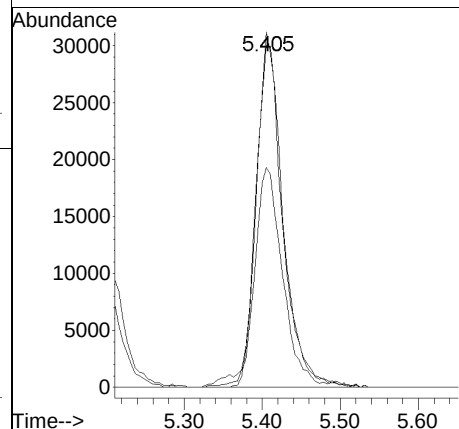
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	31.5	11.2	51.2	
98	8.5	0.0	26.1	

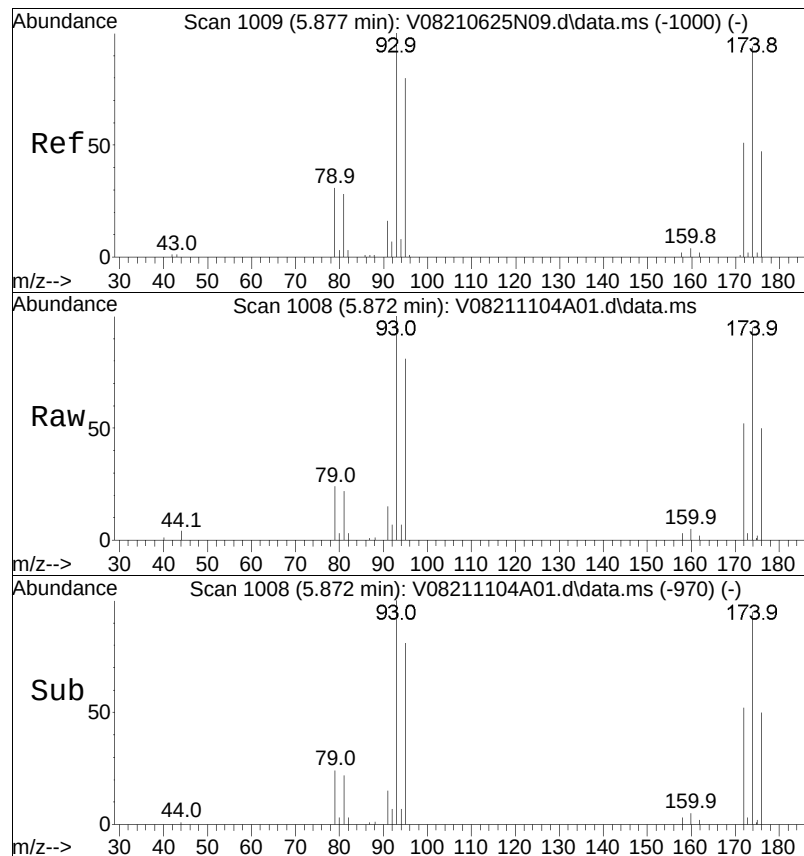




#48
 Trichloroethene
 Concen: 9.46 ug/L
 RT: 5.405 min Scan# 919
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

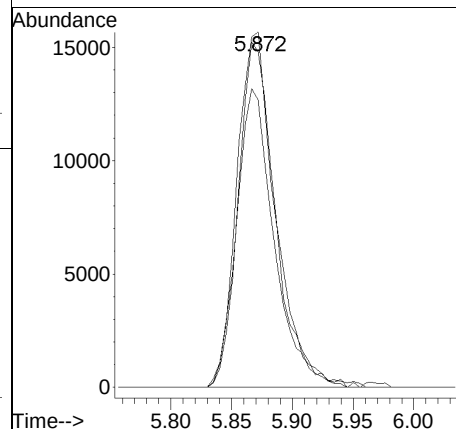
Tgt Ion:	95	Resp:	73159
Ion Ratio	Lower	Upper	
95	100		
97	68.2	55.5	83.3
130	99.9	76.6	115.0

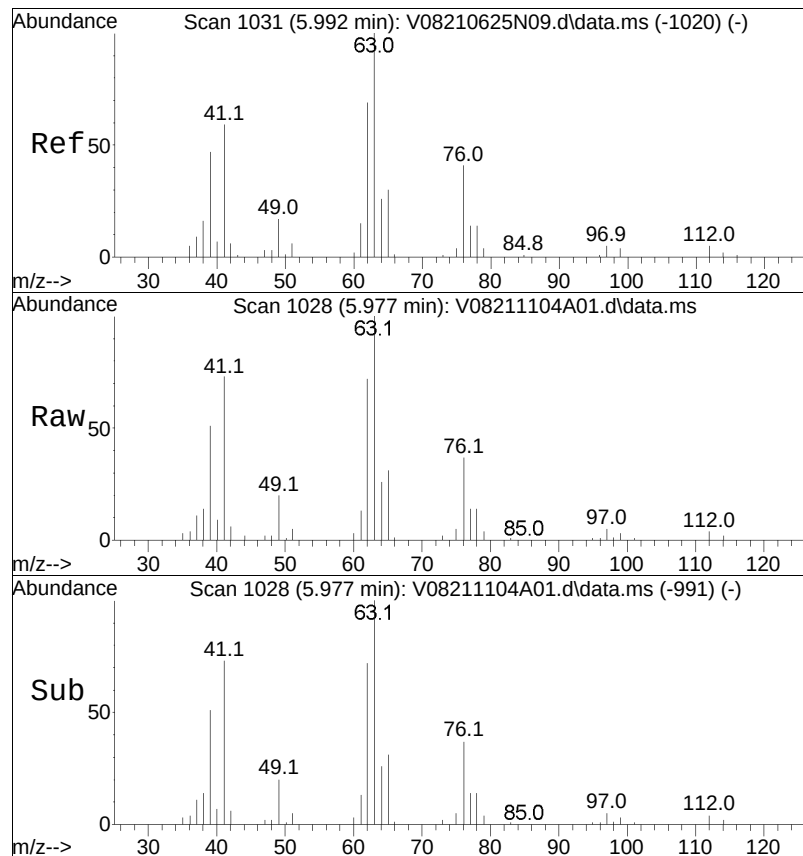




#50
 Dibromomethane
 Concen: 8.92 ug/L
 RT: 5.872 min Scan# 1008
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

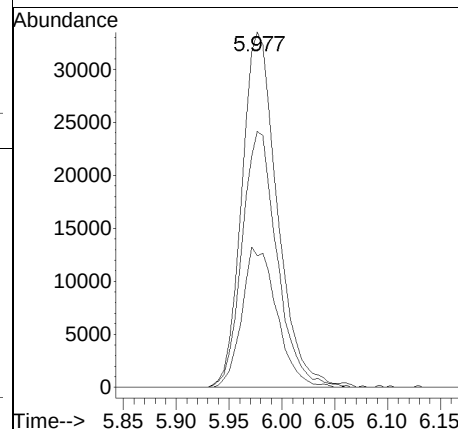
Tgt Ion:	93	Resp:	34186
Ion Ratio	Lower	Upper	
93	100		
95	83.3	67.0	100.4
174	97.0	75.0	112.4

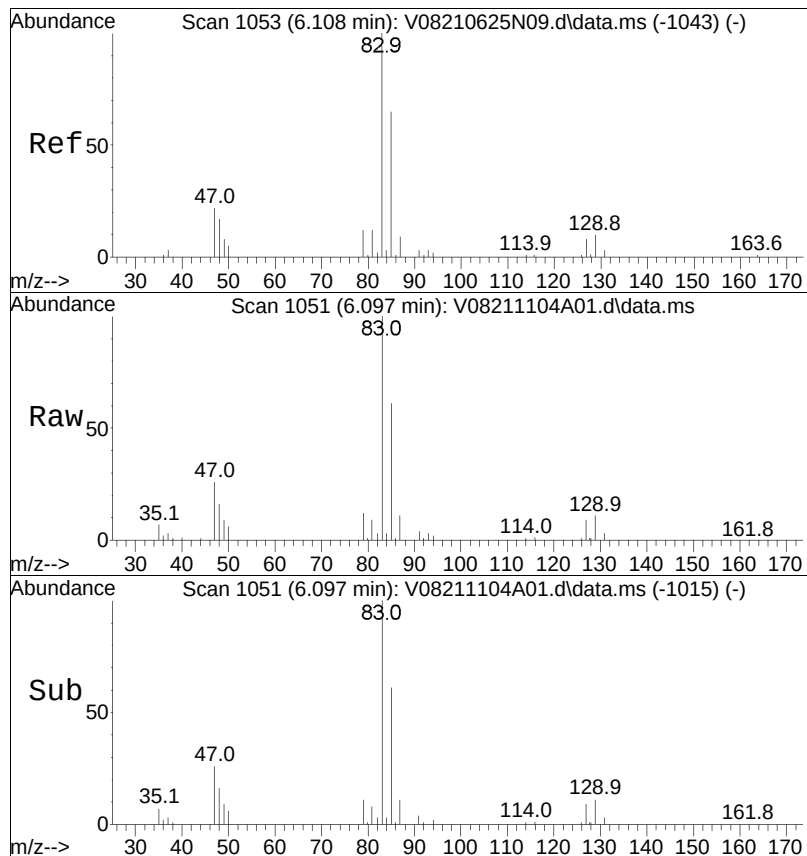




#51
 1,2-Dichloropropane
 Concen: 9.68 ug/L
 RT: 5.977 min Scan# 1028
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

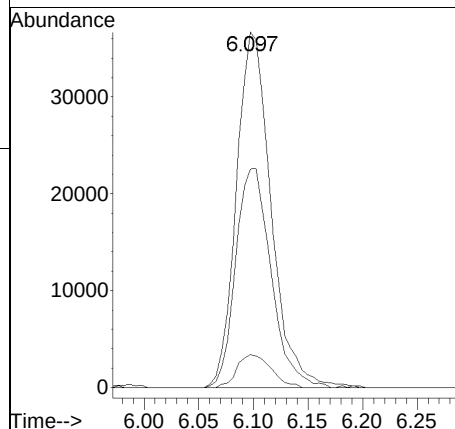
Tgt	Ion: 63	Resp:	78296
Ion	Ratio	Lower	Upper
63	100		
62	71.0	58.6	87.8
76	38.8	38.0	57.0

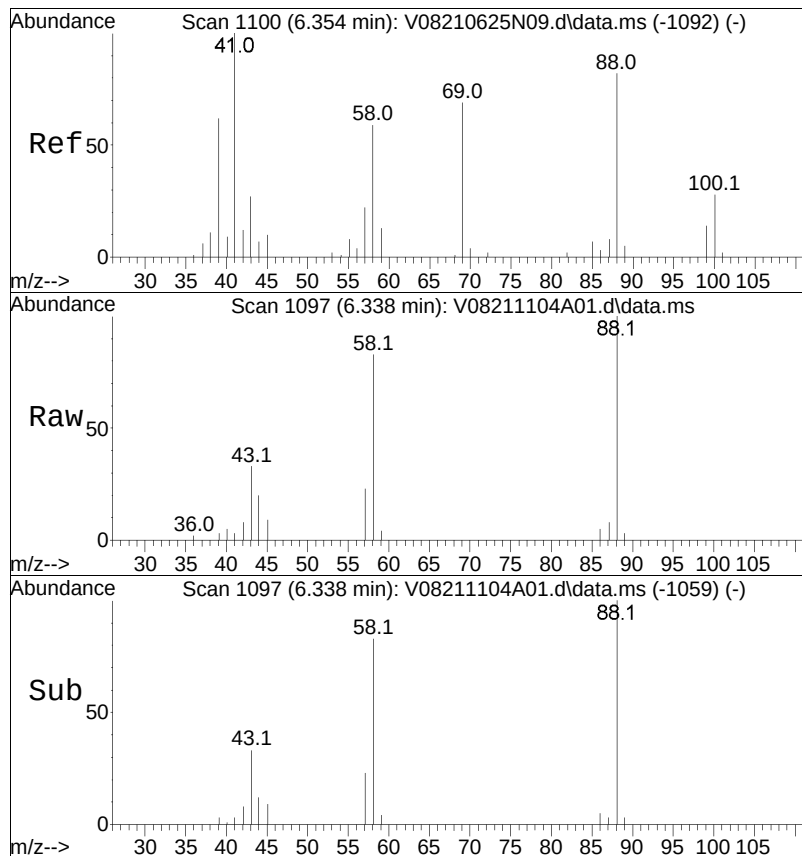




#54
 Bromodichloromethane
 Concen: 8.92 ug/L
 RT: 6.097 min Scan# 1051
 Delta R.T. -0.011 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

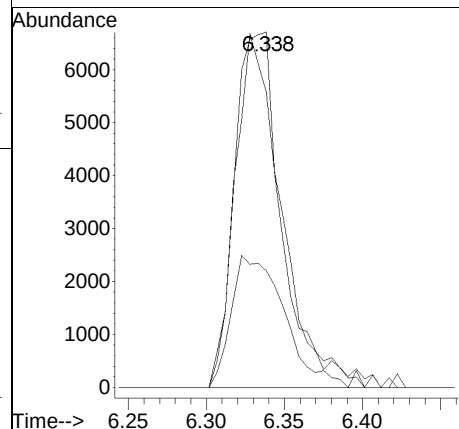
Tgt	Ion: 83	Resp:	81077
Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.3	78.5
127	9.0	6.2	9.4

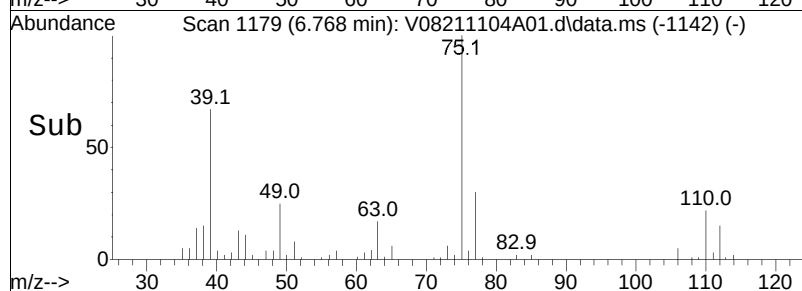
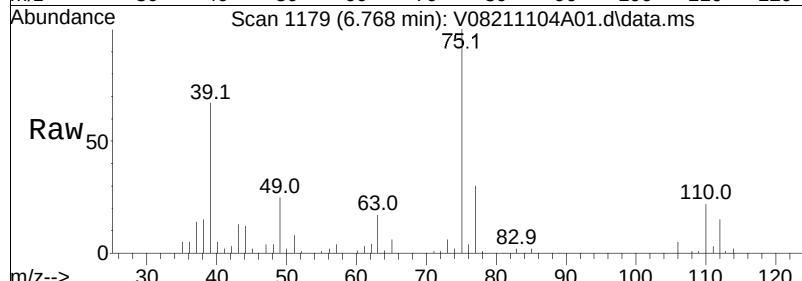
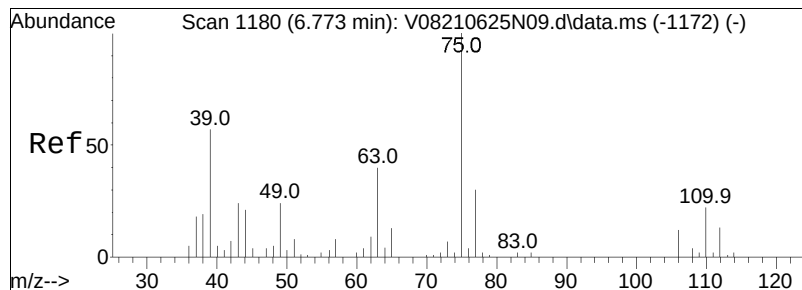




#57
 1,4-Dioxane
 Concen: 471.59 ug/L
 RT: 6.338 min Scan# 1097
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

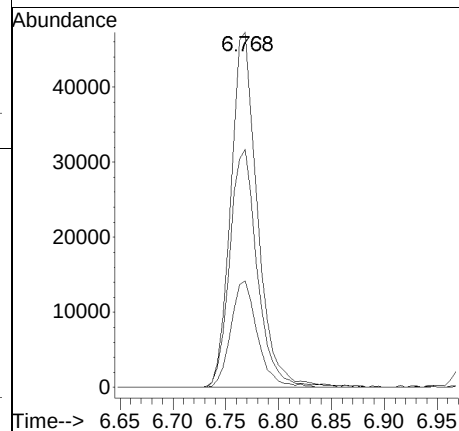
Tgt Ion:	88	Resp:	14459
Ion Ratio	Lower	Upper	
88	100		
58	93.7	76.7	115.1
43	40.6	36.2	54.2

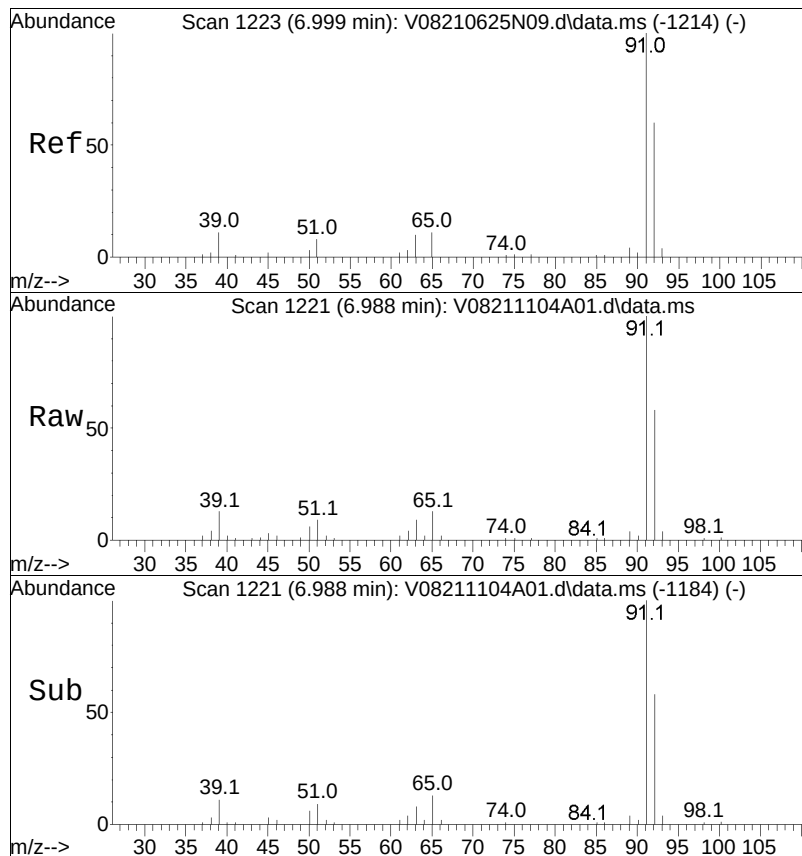




#58
 cis-1,3-Dichloropropene
 Concen: 8.12 ug/L
 RT: 6.768 min Scan# 1179
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

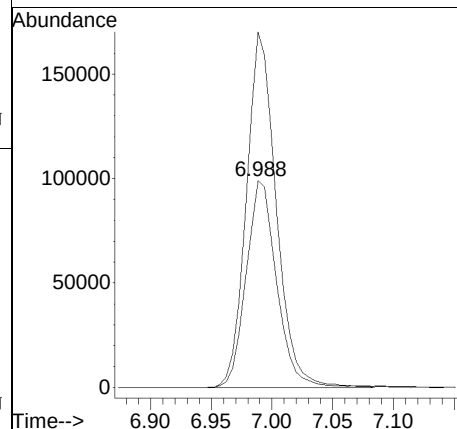
Tgt Ion:	75	Resp:	83092
Ion Ratio	Lower	Upper	
75	100		
77	30.0	25.0	37.4
39	68.8	50.1	75.1

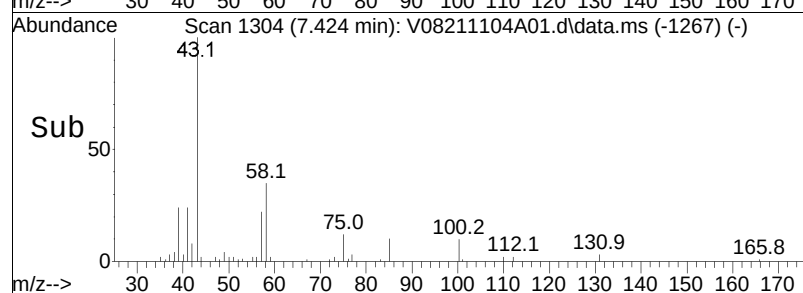
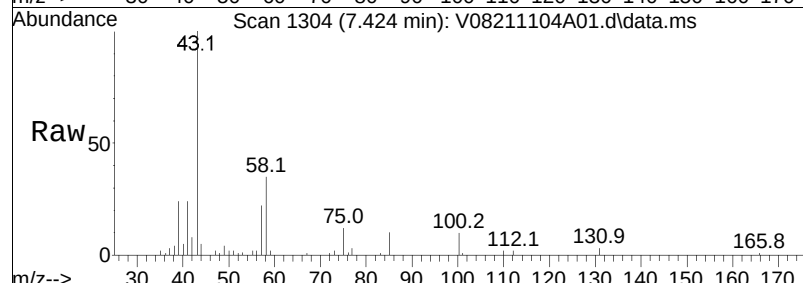
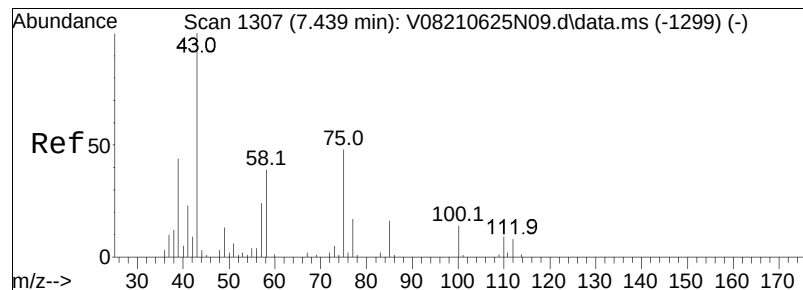




#61
 Toluene
 Concen: 9.30 ug/L
 RT: 6.988 min Scan# 1221
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

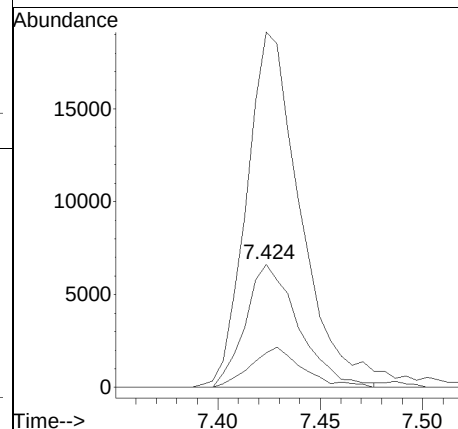
Tgt Ion:	92	Resp:	172524
Ion Ratio	Lower	Upper	
92	100		
91	168.8	139.8	209.6

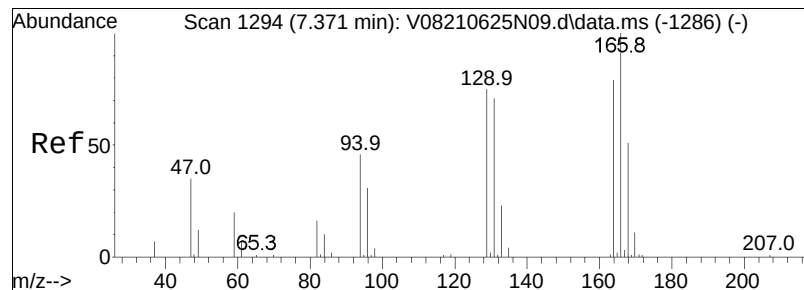




#62
 4-Methyl-2-pentanone
 Concen: 7.01 ug/L
 RT: 7.424 min Scan# 1304
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

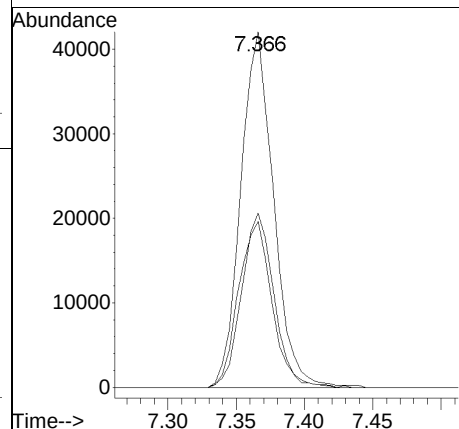
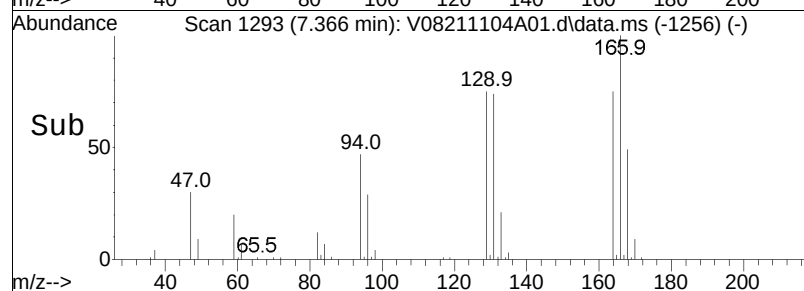
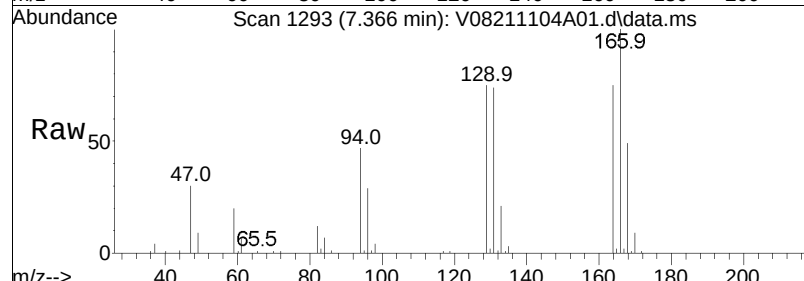
Tgt	Ion	Resp	Lower	Upper
58	100			
100	31.9	20.2	30.2	#
43	300.5	196.6	295.0	#

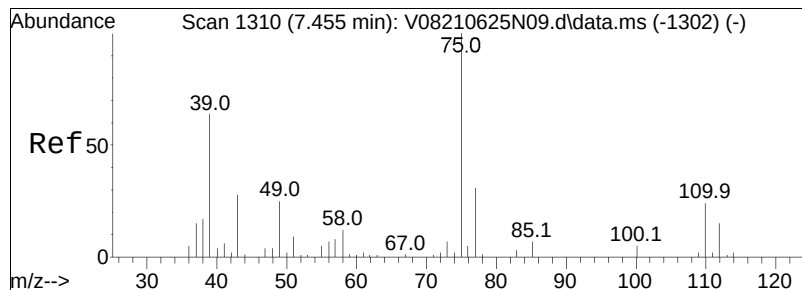




#63
Tetrachloroethene
Concen: 9.56 ug/L
RT: 7.366 min Scan# 1293
Delta R.T. -0.005 min
Lab File: V08211104A01.d
Acq: 4 Nov 2021 7:03 am

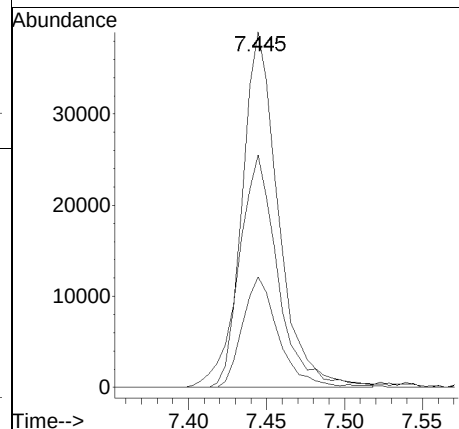
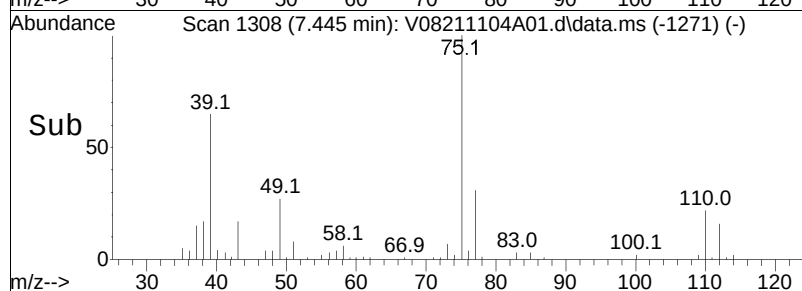
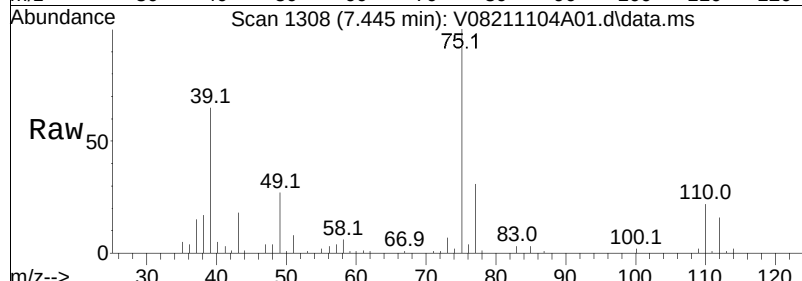
Tgt Ion	Ratio	Lower	Upper
166	100		
168	48.1	28.2	68.2
94	47.4	38.4	78.4

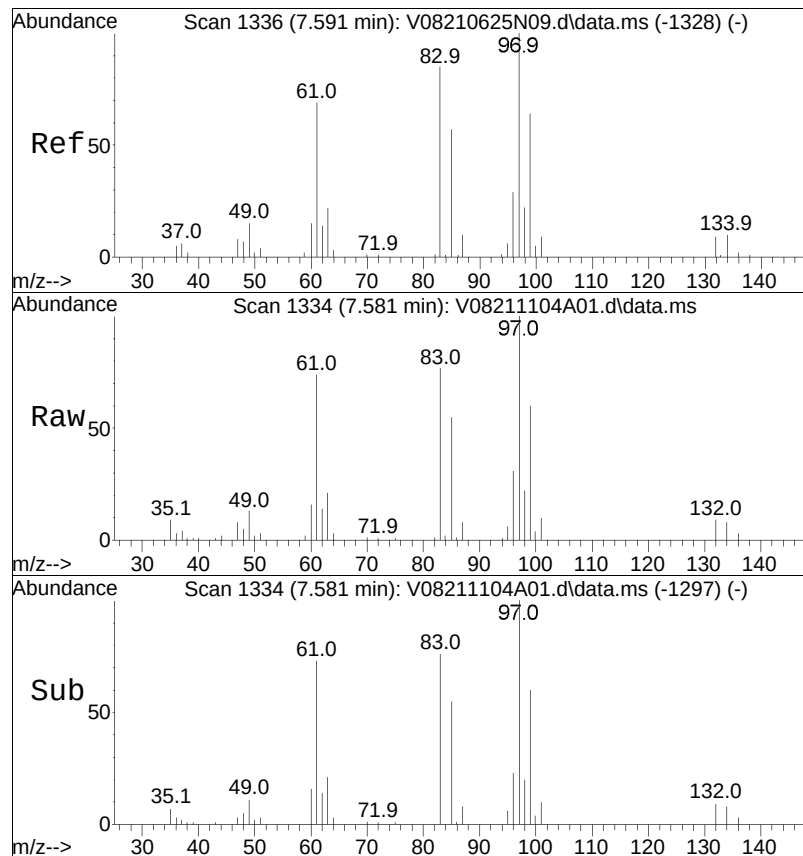




#65
 trans-1,3-Dichloropropene
 Concen: 7.92 ug/L
 RT: 7.445 min Scan# 1308
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

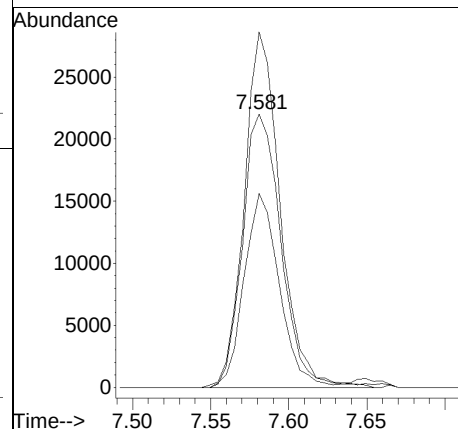
Tgt Ion:	75	Resp:	62285
Ion Ratio	Lower	Upper	
75	100		
77	30.9	12.4	52.4
39	72.6	42.8	82.8

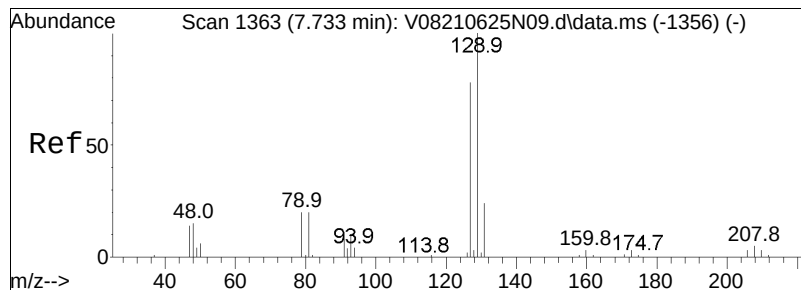




#68
 1,1,2-Trichloroethane
 Concen: 9.22 ug/L
 RT: 7.581 min Scan# 1334
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

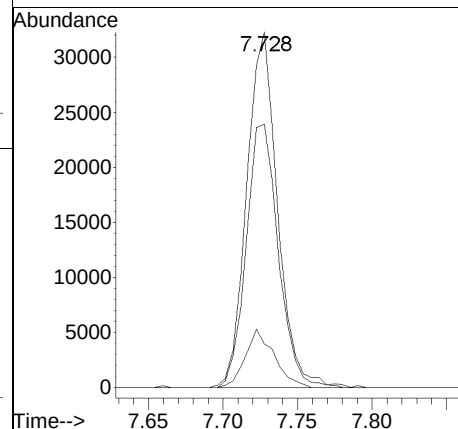
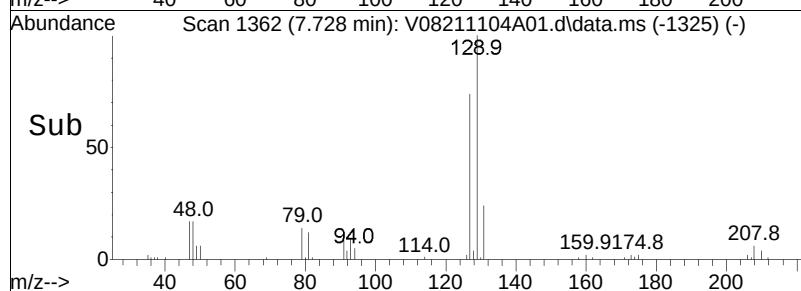
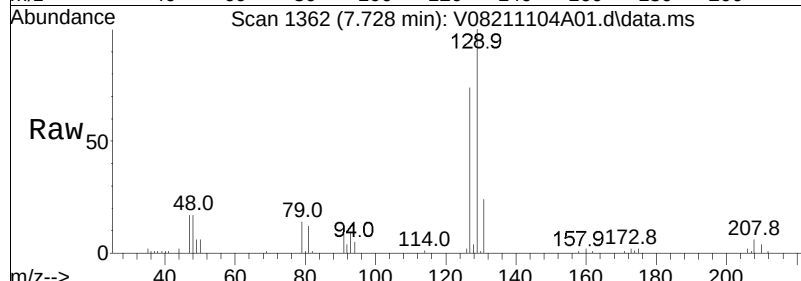
Tgt Ion:	83	Resp:	37666
Ion Ratio	Lower	Upper	
83	100		
97	121.4	89.8	129.8
85	65.1	44.4	84.4

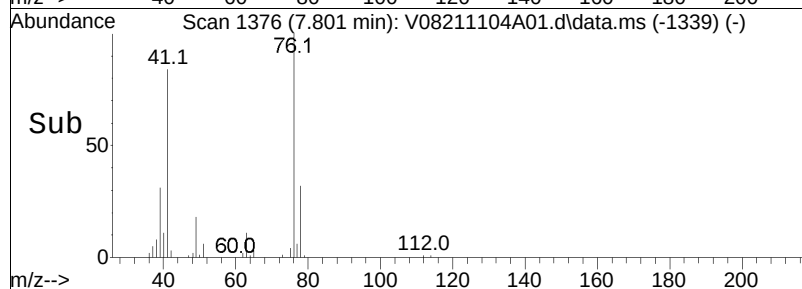
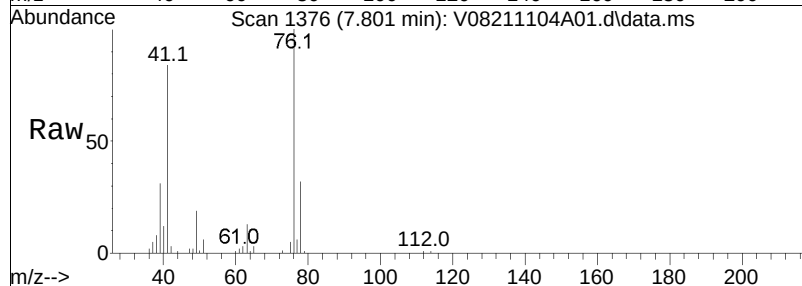
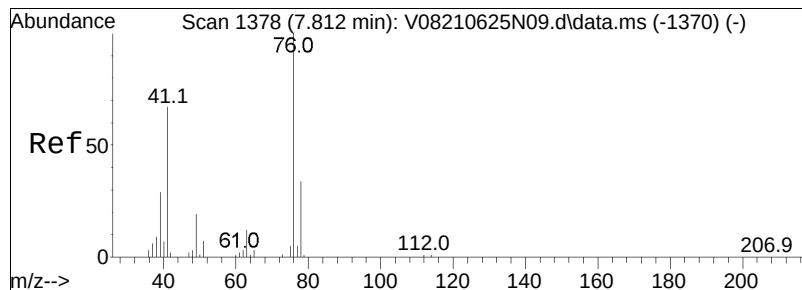




#69
 Chlorodibromomethane
 Concen: 7.88 ug/L
 RT: 7.728 min Scan# 1362
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

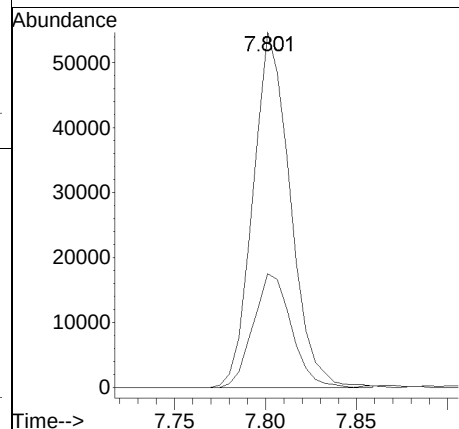
Tgt Ion	Ratio	Lower	Upper
129	100		
81	15.3	2.9	42.9
127	77.1	57.8	97.8

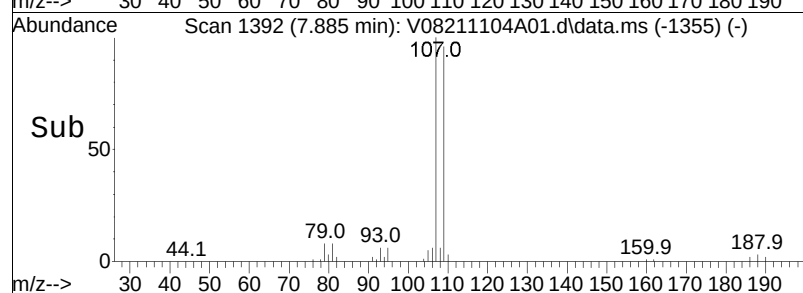
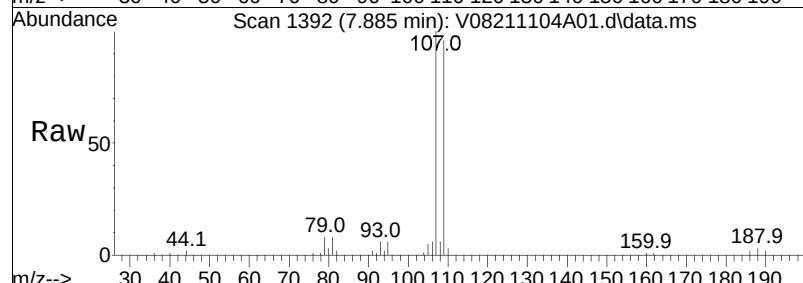
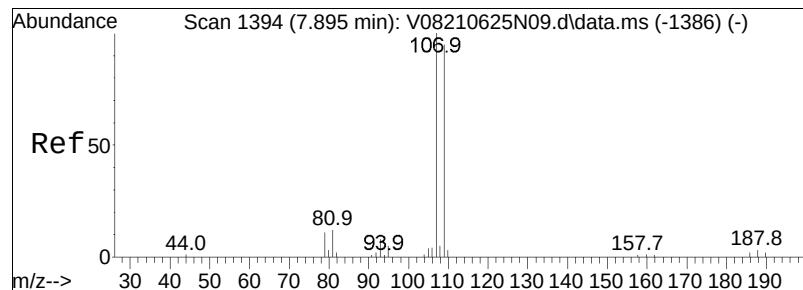




#70
 1,3-Dichloropropane
 Concen: 9.06 ug/L
 RT: 7.801 min Scan# 1376
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

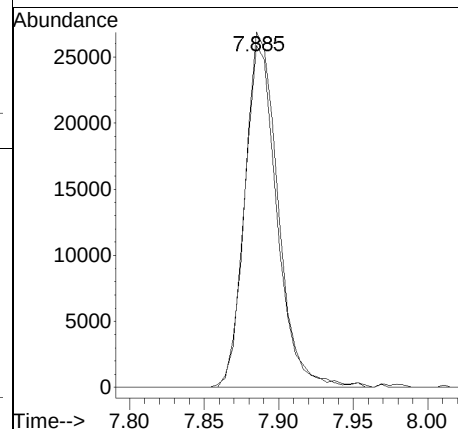
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

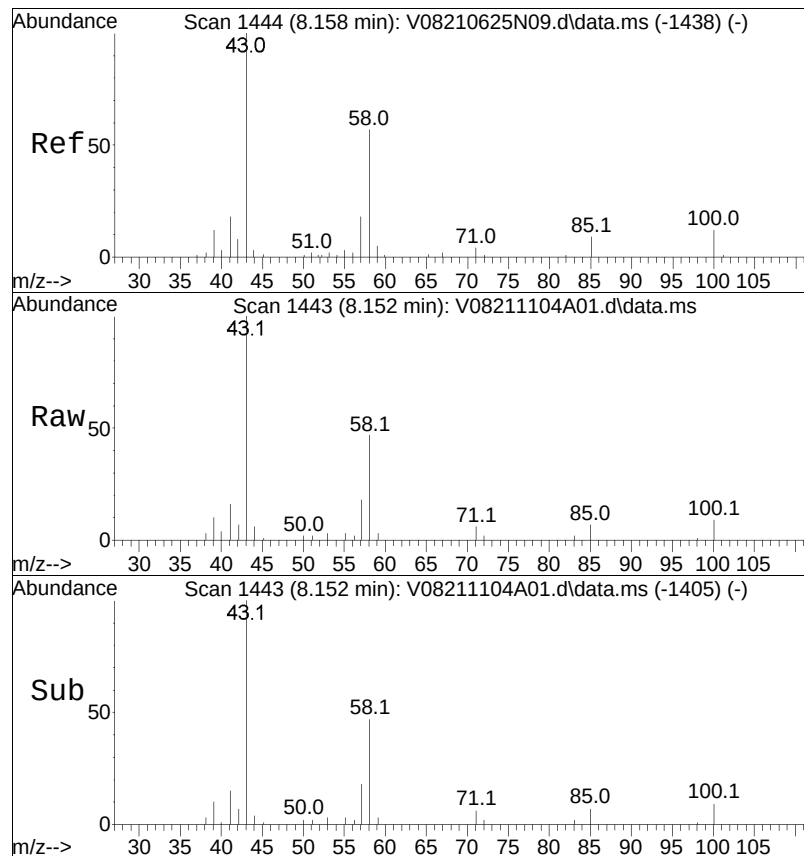




#71
 1,2-Dibromoethane
 Concen: 8.95 ug/L
 RT: 7.885 min Scan# 1392
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

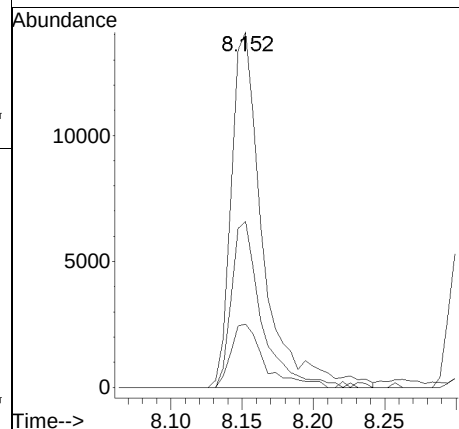
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.3	111.5

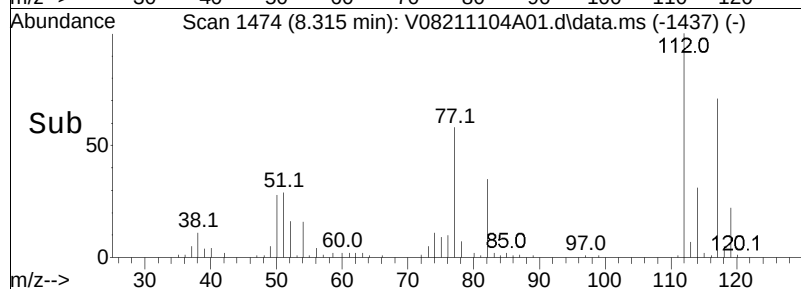
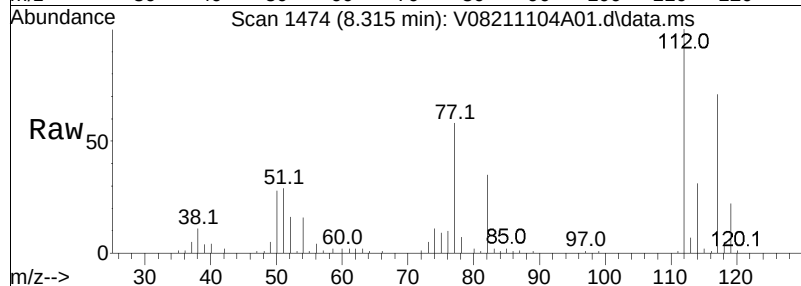
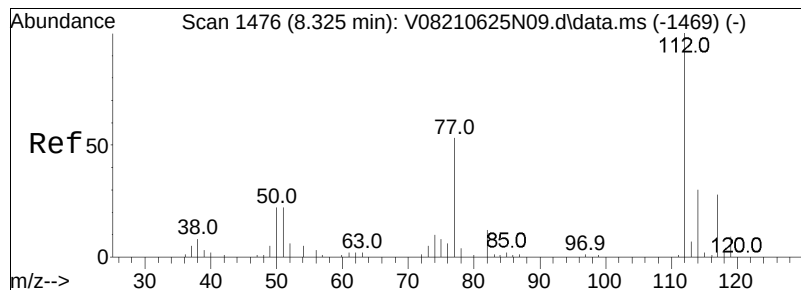




#72
 2-Hexanone
 Concen: 7.23 ug/L
 RT: 8.152 min Scan# 1443
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt Ion:	43	Resp:	21843
Ion Ratio	Lower	Upper	
43	100		
58	44.5	41.2	61.8
57	18.9	17.2	25.8





#73

Chlorobenzene

Concen: 9.59 ug/L

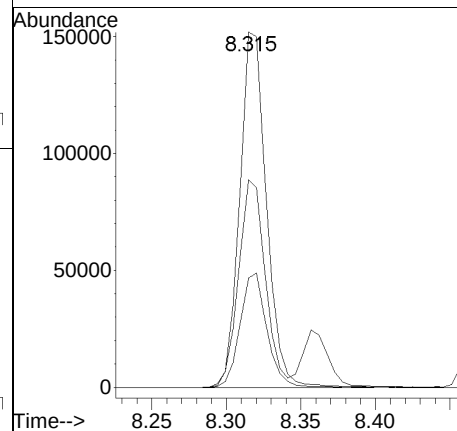
RT: 8.315 min Scan# 1474

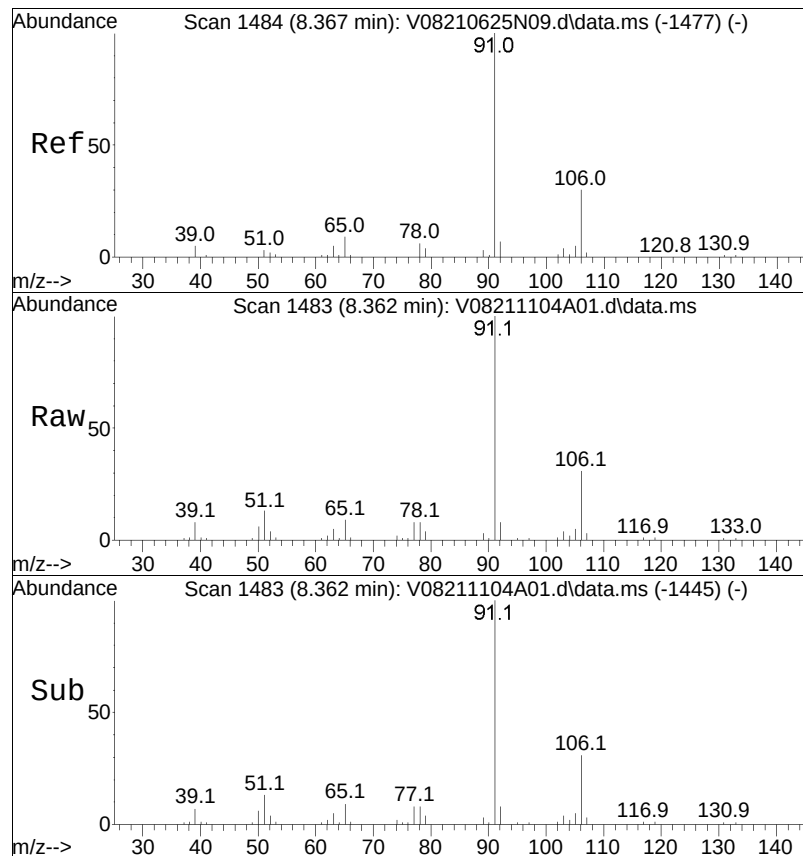
Delta R.T. -0.005 min

Lab File: V08211104A01.d

Acq: 4 Nov 2021 7:03 am

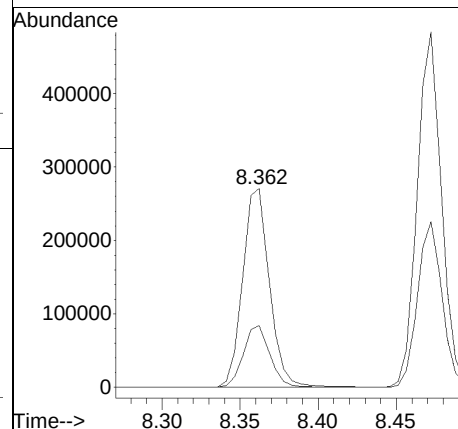
Tgt	Ion:112	Resp:	189471
Ion	Ratio	Lower	Upper
112	100		
77	58.5	55.4	83.0
114	32.3	25.4	38.2

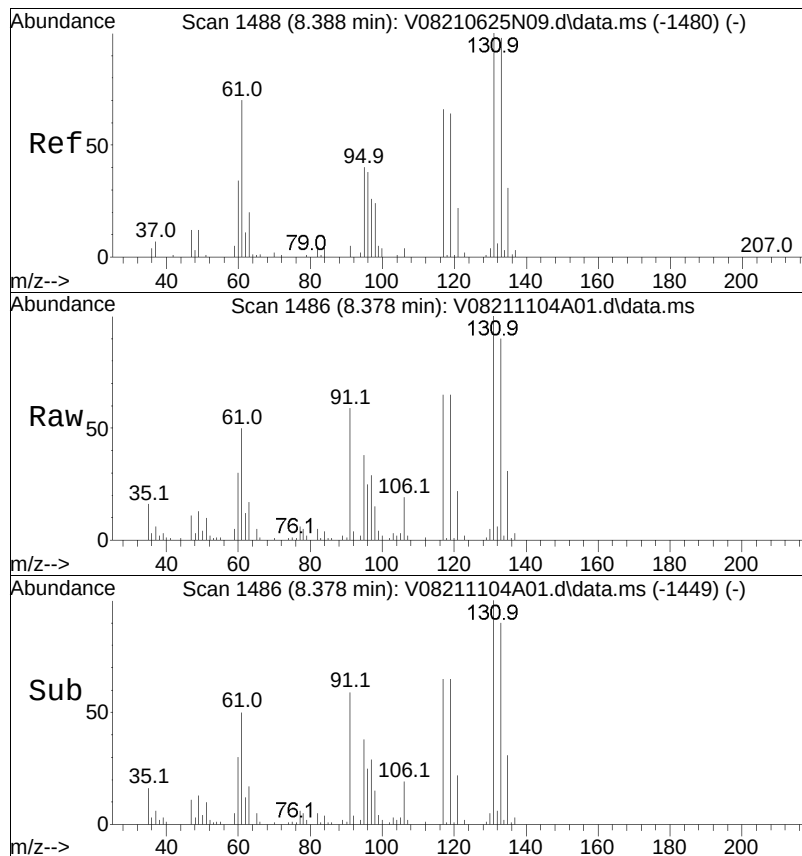




#74
 Ethylbenzene
 Concen: 9.59 ug/L
 RT: 8.362 min Scan# 1483
 Delta R.T. 0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

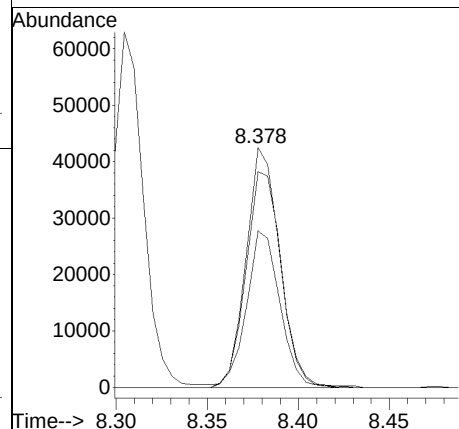
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.3	36.5

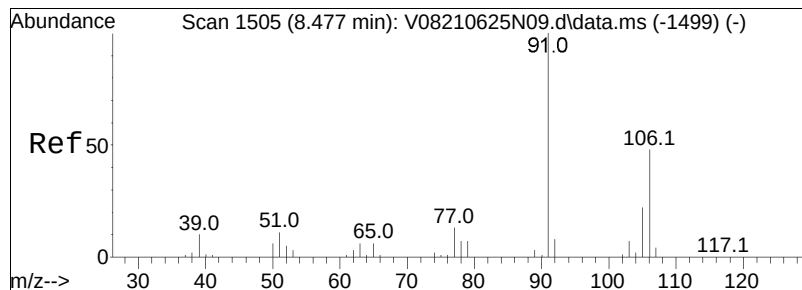




#75
 1,1,1,2-Tetrachloroethane
 Concen: 8.56 ug/L
 RT: 8.378 min Scan# 1486
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

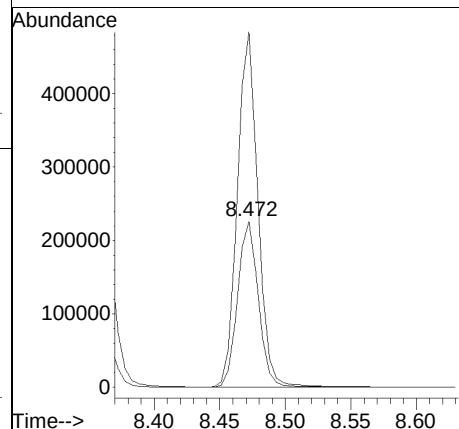
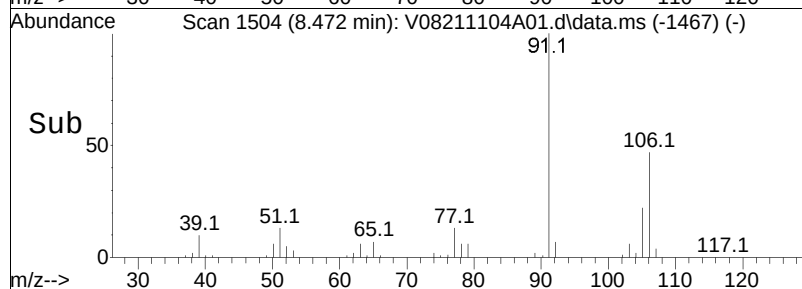
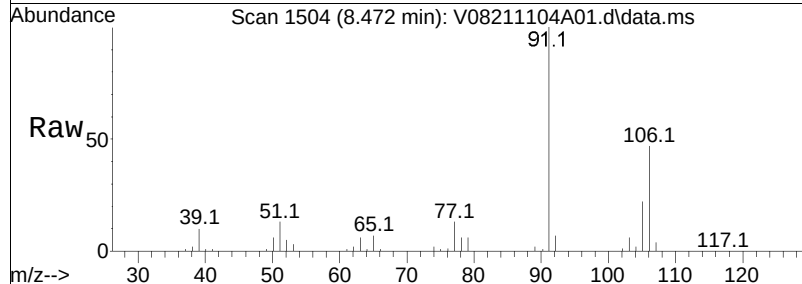
Tgt Ion:	131	Resp:	54394
Ion Ratio	Lower	Upper	
131	100		
133	95.1	81.0	121.0
119	65.2	41.3	81.3

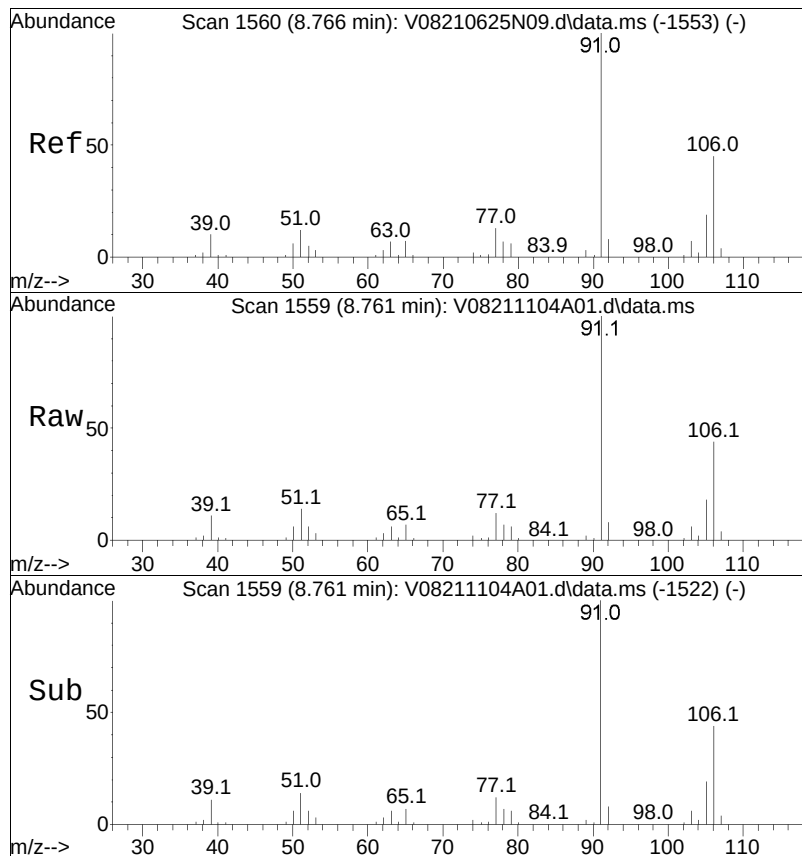




#76
 p/m Xylene
 Concen: 19.63 ug/L
 RT: 8.472 min Scan# 1504
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

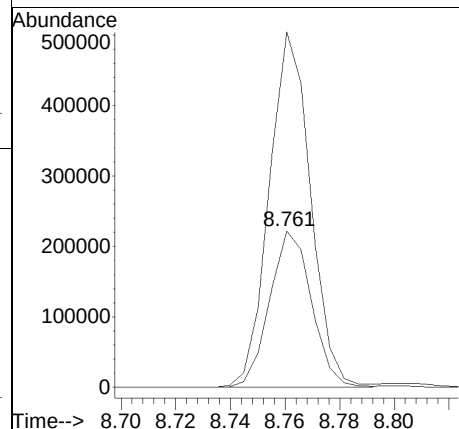
Tgt Ion	Ratio	Lower	Upper
106	100		
91	209.9	166.4	249.6

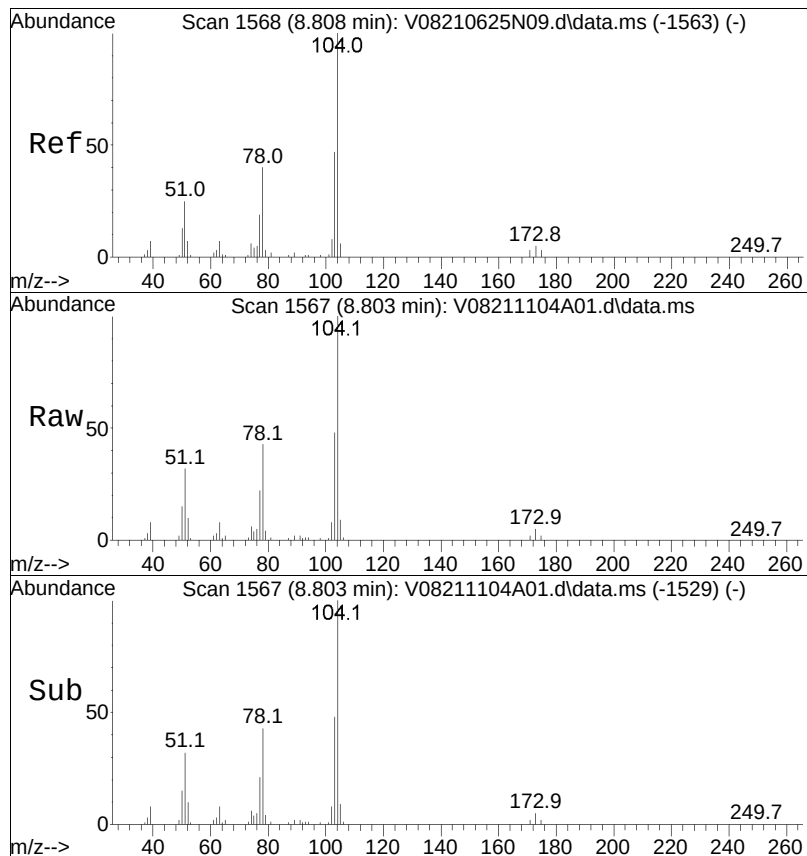




#77
o Xylene
Concen: 19.41 ug/L
RT: 8.761 min Scan# 1559
Delta R.T. -0.005 min
Lab File: V08211104A01.d
Acq: 4 Nov 2021 7:03 am

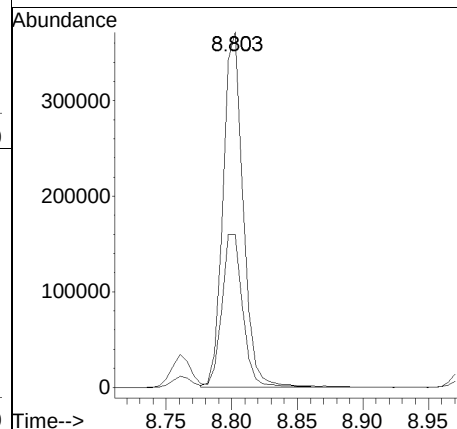
Tgt Ion:106 Resp: 236462
Ion Ratio Lower Upper
106 100
91 224.4 182.6 273.8

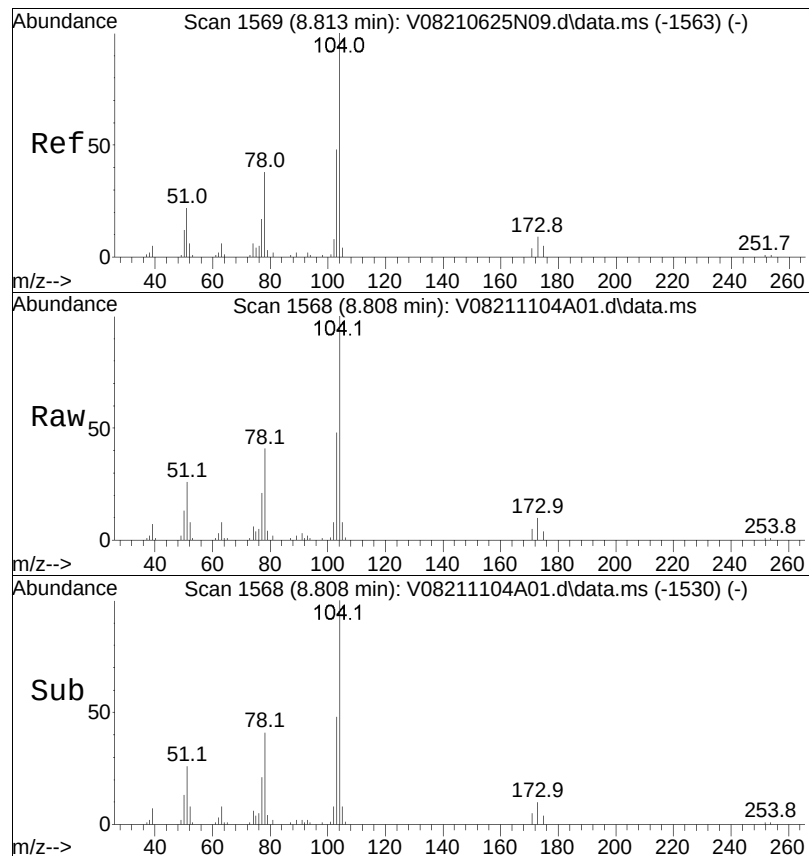




#78
 Styrene
 Concen: 20.84 ug/L
 RT: 8.803 min Scan# 1567
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

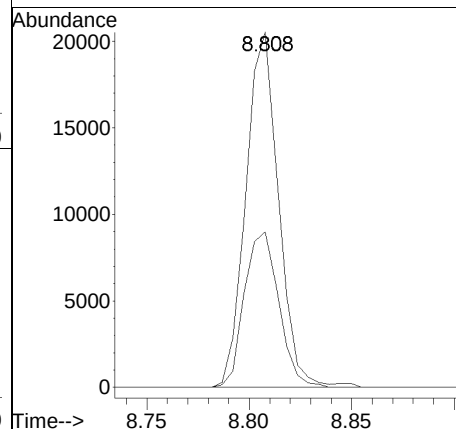
Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.6	39.8	59.6

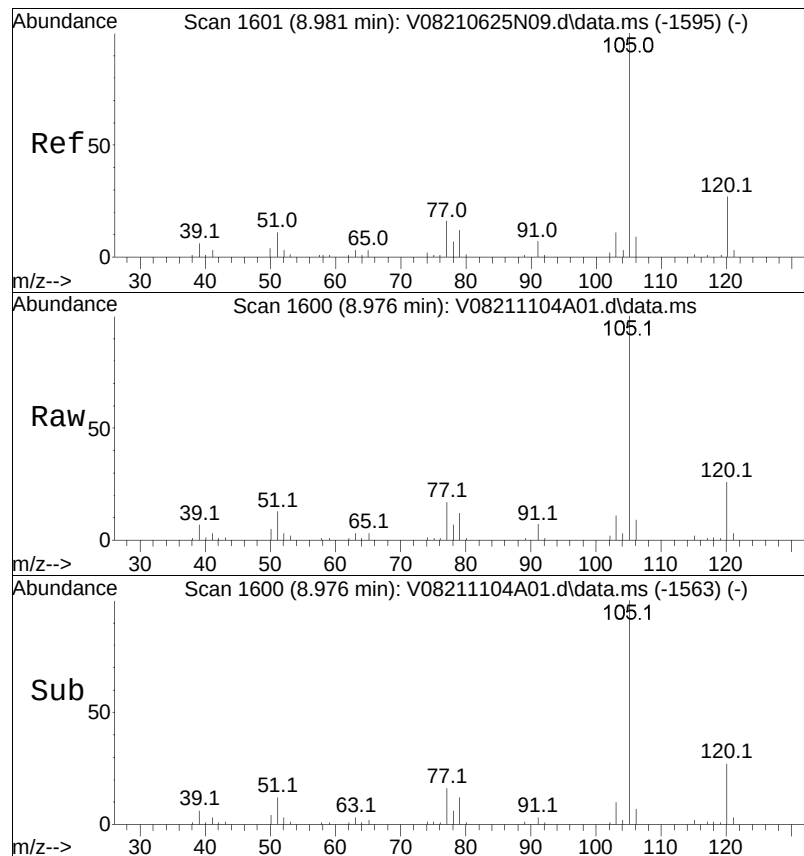




#80
 Bromoform
 Concen: 7.51 ug/L
 RT: 8.808 min Scan# 1568
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

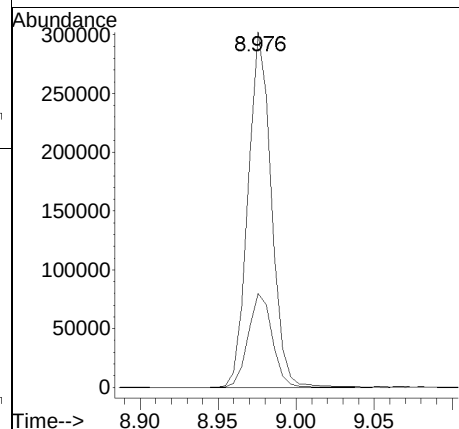
Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.1	31.5	71.5

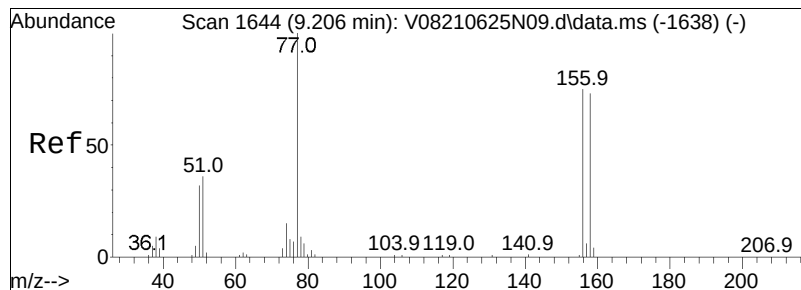




#82
 Isopropylbenzene
 Concen: 9.72 ug/L
 RT: 8.976 min Scan# 1600
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	4.8	44.8





#84

Bromobenzene

Concen: 9.30 ug/L

RT: 9.201 min Scan# 1643

Delta R.T. 0.000 min

Lab File: V08211104A01.d

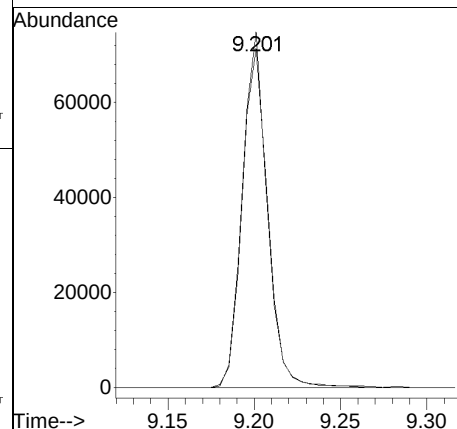
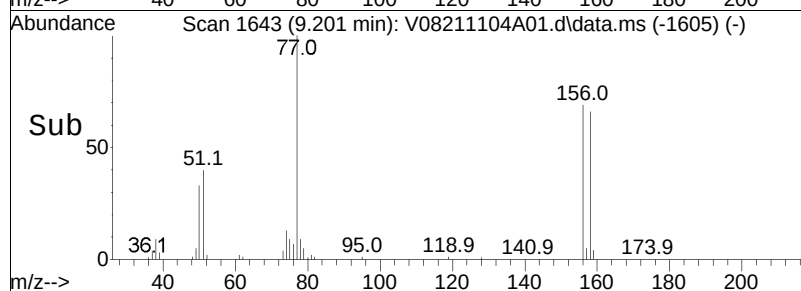
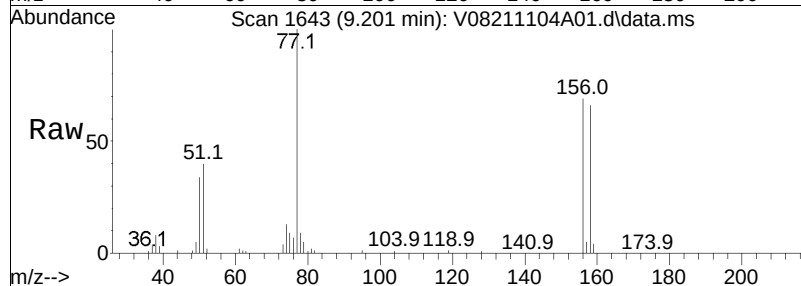
Acq: 4 Nov 2021 7:03 am

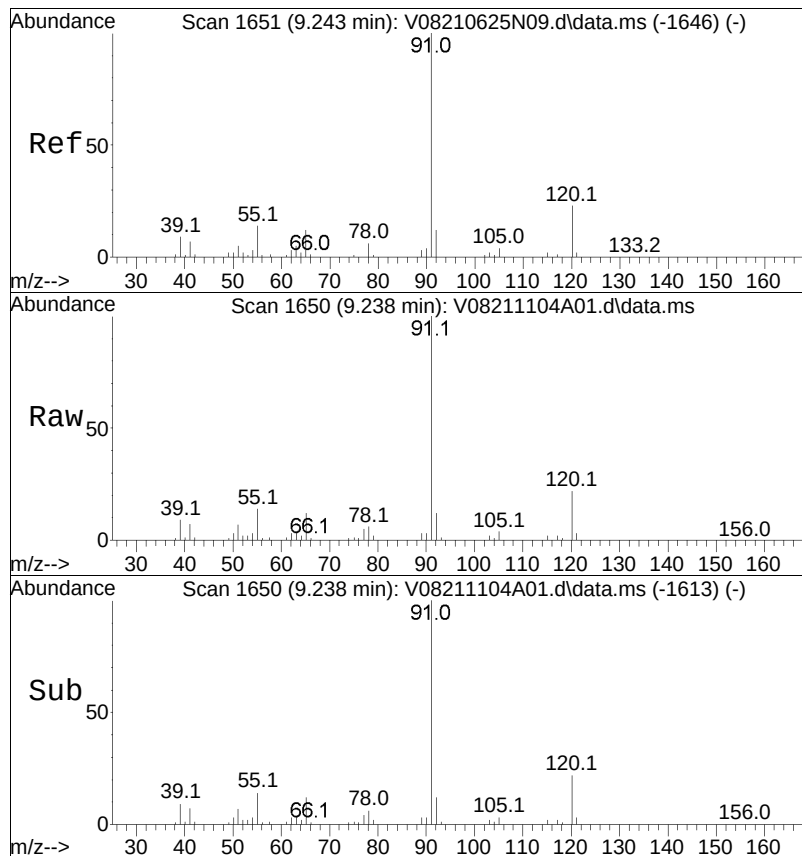
Tgt Ion:156 Resp: 74823

Ion Ratio Lower Upper

156 100

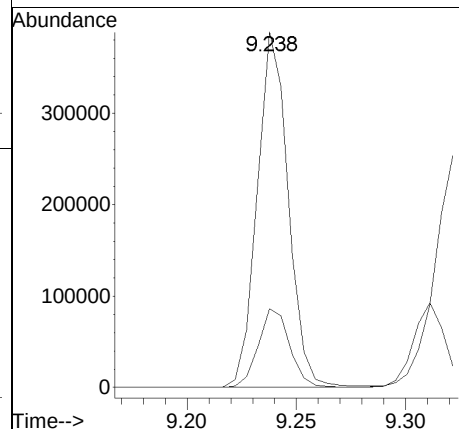
158 98.8 75.9 113.9

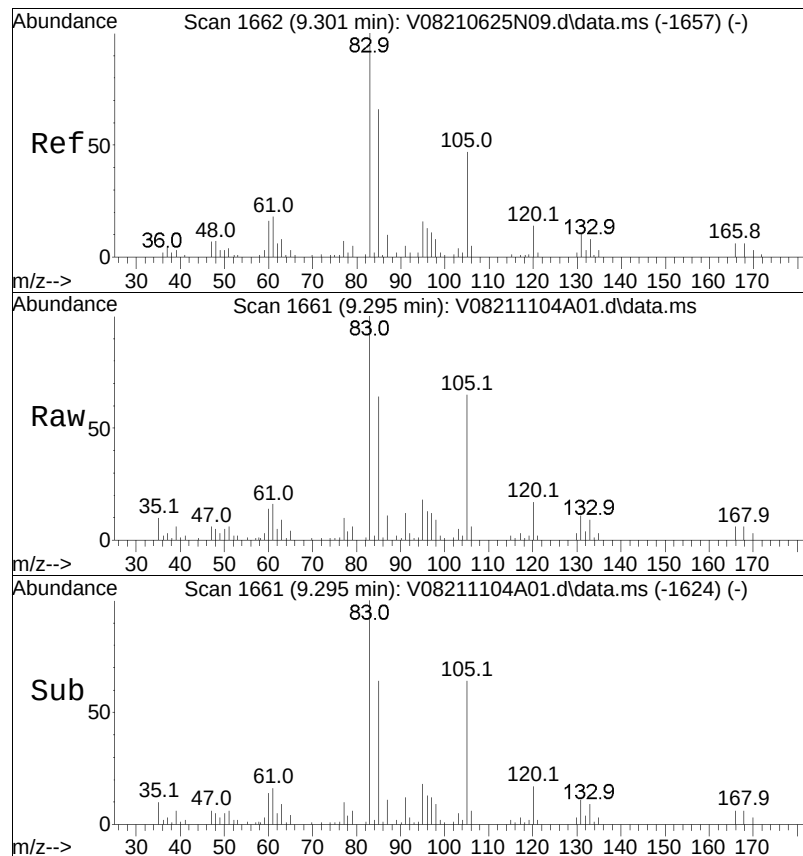




#85
 n-Propylbenzene
 Concen: 9.97 ug/L
 RT: 9.238 min Scan# 1650
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

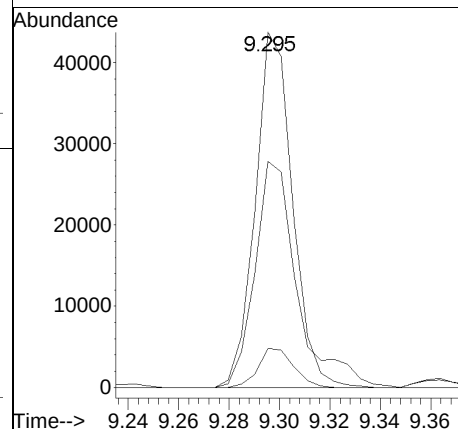
Tgt Ion:	91	Resp:	384219
Ion Ratio	Lower	Upper	
91	100		
120	22.4	17.0	25.6

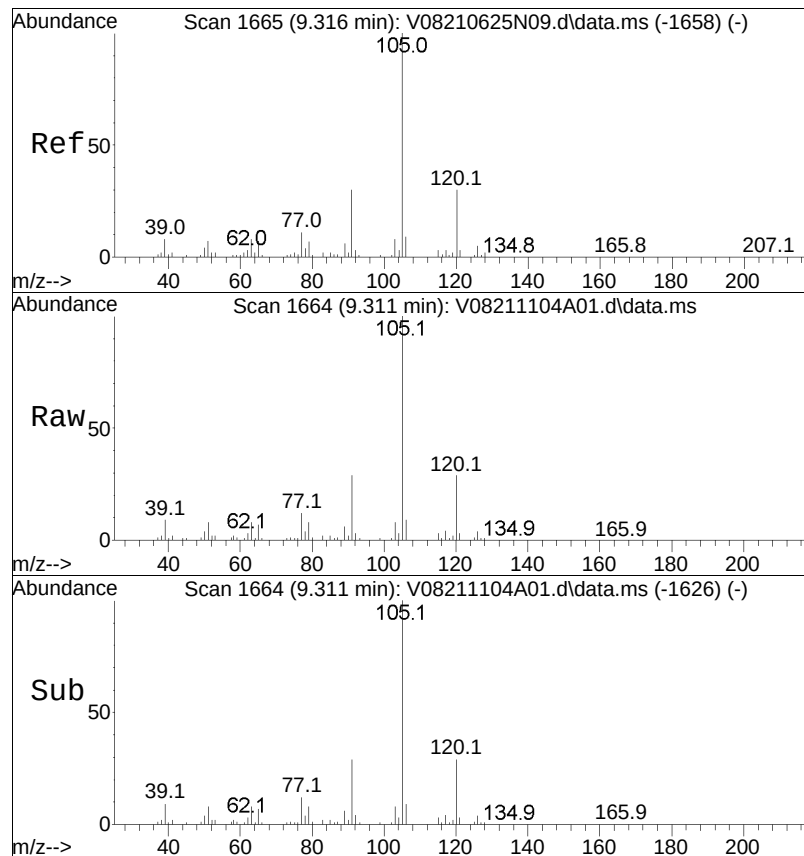




#87
 1,1,2,2-Tetrachloroethane
 Concen: 8.56 ug/L
 RT: 9.295 min Scan# 1661
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

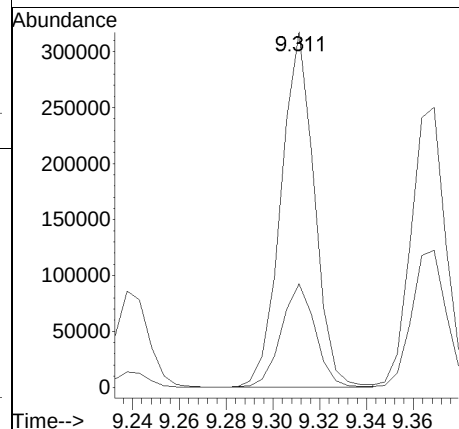
Tgt Ion:	83	Resp:	44869
Ion Ratio	Lower	Upper	
83	100		
131	10.4	0.0	30.4
85	72.3	45.4	85.4

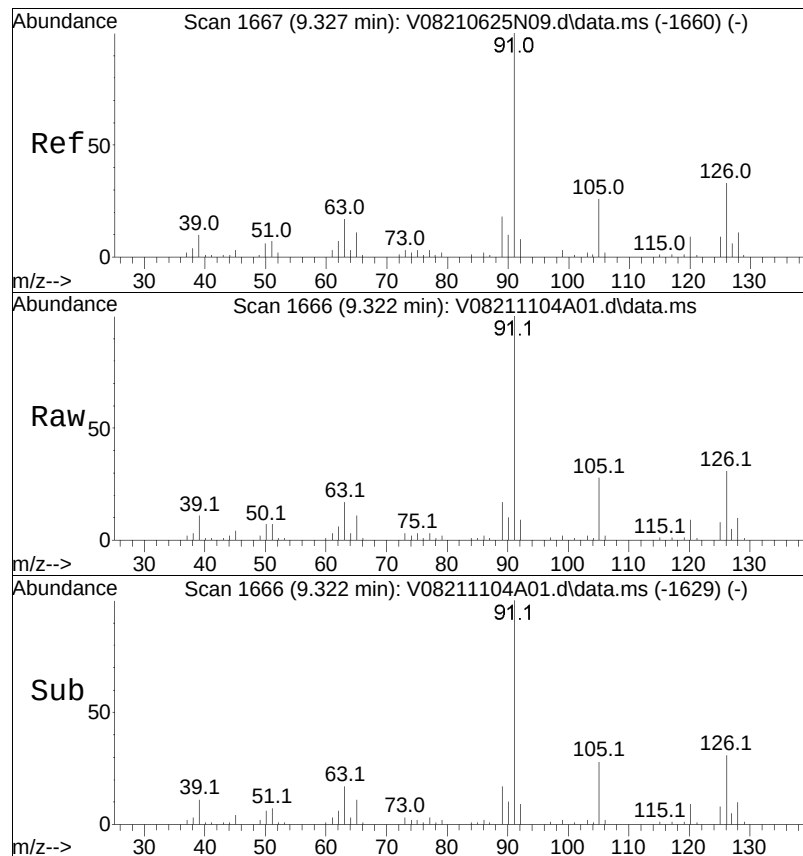




#88
 4-Ethyltoluene
 Concen: 10.12 ug/L
 RT: 9.311 min Scan# 1664
 Delta R.T. 0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

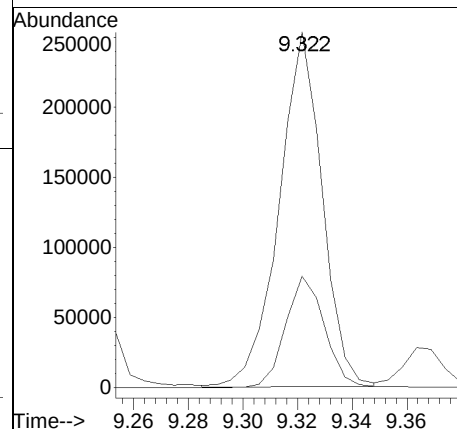
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	313839		
120	120	29.7		18.1	37.7

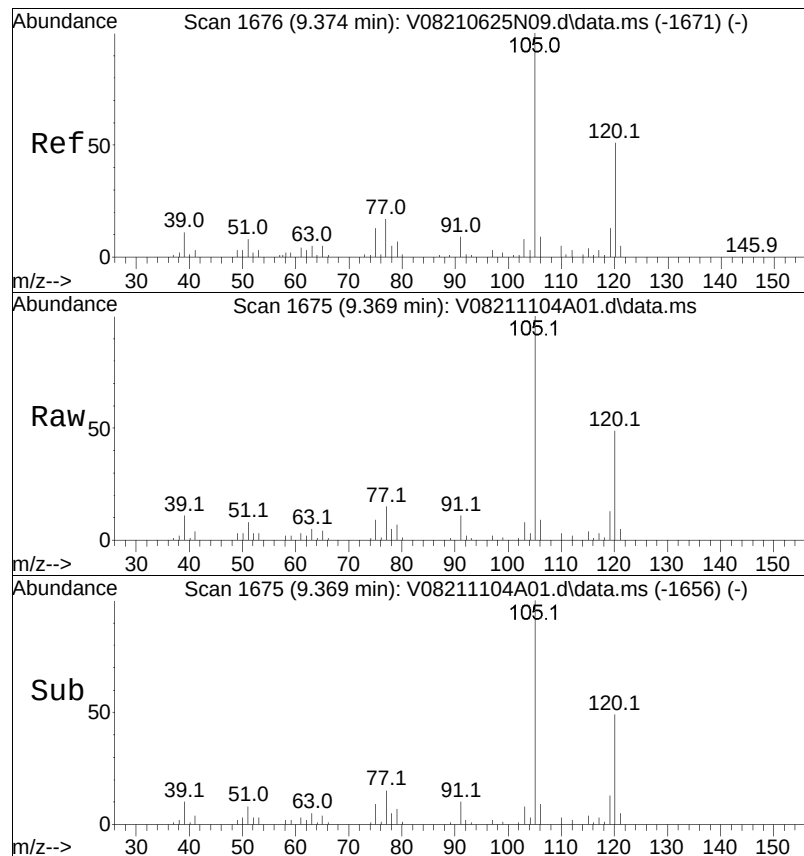




#89
 2-Chlorotoluene
 Concen: 10.17 ug/L
 RT: 9.322 min Scan# 1666
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

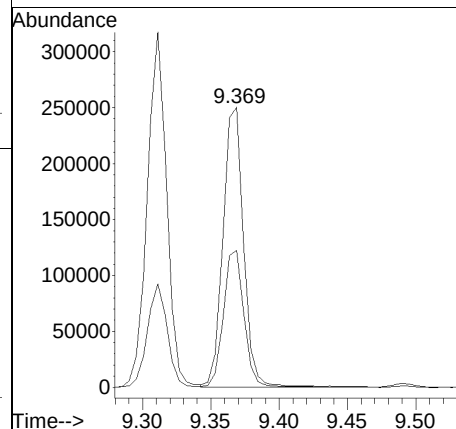
Tgt Ion:	91	Resp:	278117
Ion Ratio	Lower	Upper	
91	100		
126	28.4	21.5	32.3

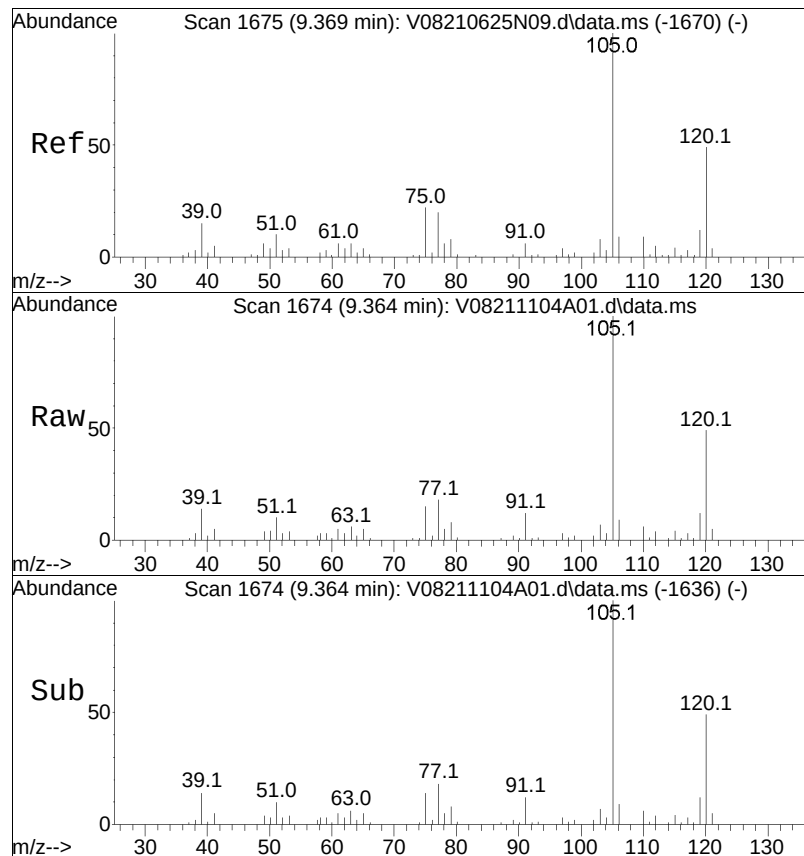




#90
 1,3,5-Trimethylbenzene
 Concen: 9.58 ug/L
 RT: 9.369 min Scan# 1675
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

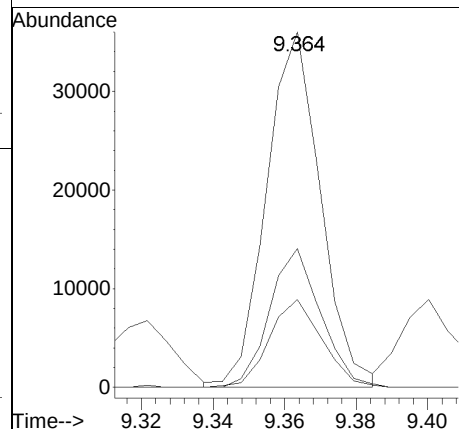
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	34.8	52.2

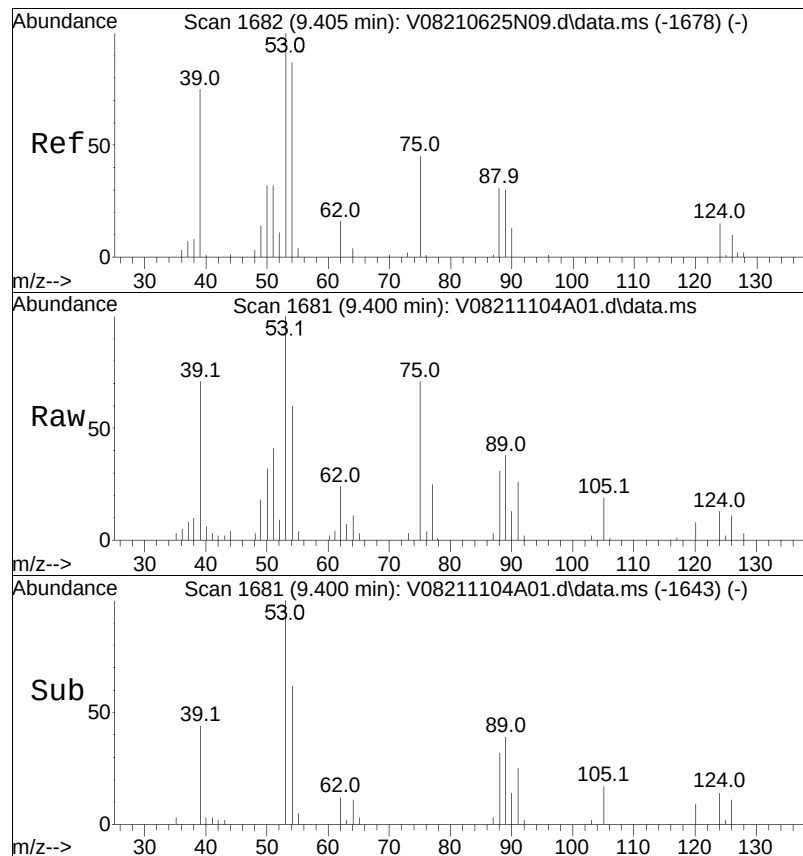




#91
 1,2,3-Trichloropropane
 Concen: 8.63 ug/L M1
 RT: 9.364 min Scan# 1674
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

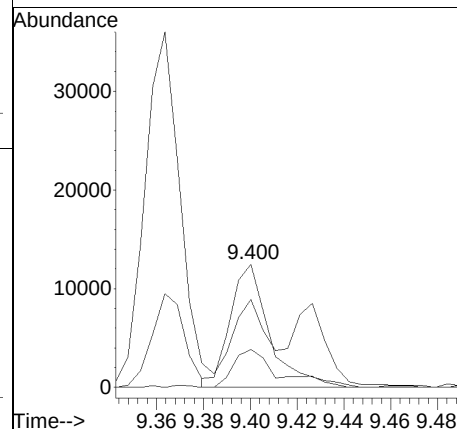
Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.9	25.4	52.8
112	24.2	15.6	32.4

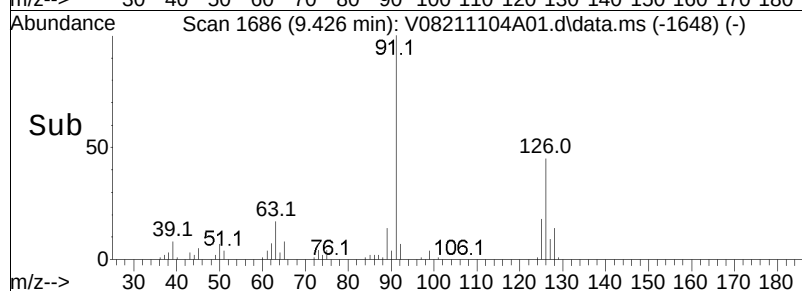
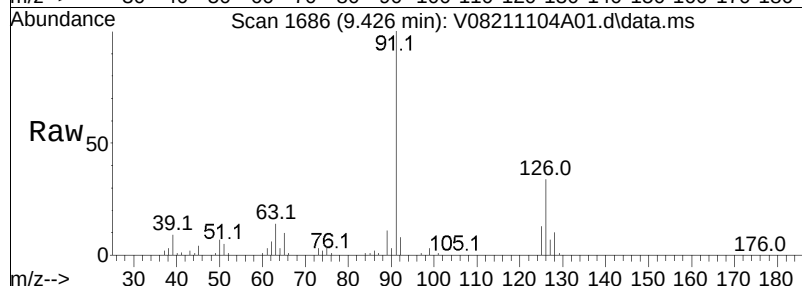
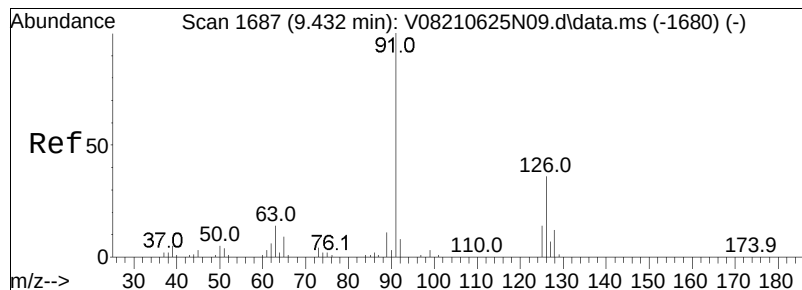




#92
 trans-1,4-Dichloro-2-butene
 Concen: 8.29 ug/L
 RT: 9.400 min Scan# 1681
 Delta R.T. 0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

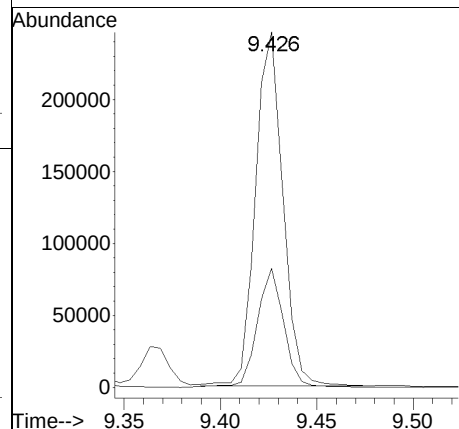
Tgt Ion:	53	Resp:	14711
Ion Ratio	Lower	Upper	
53	100		
88	34.6	39.6	59.4#
75	61.9	70.2	105.4#

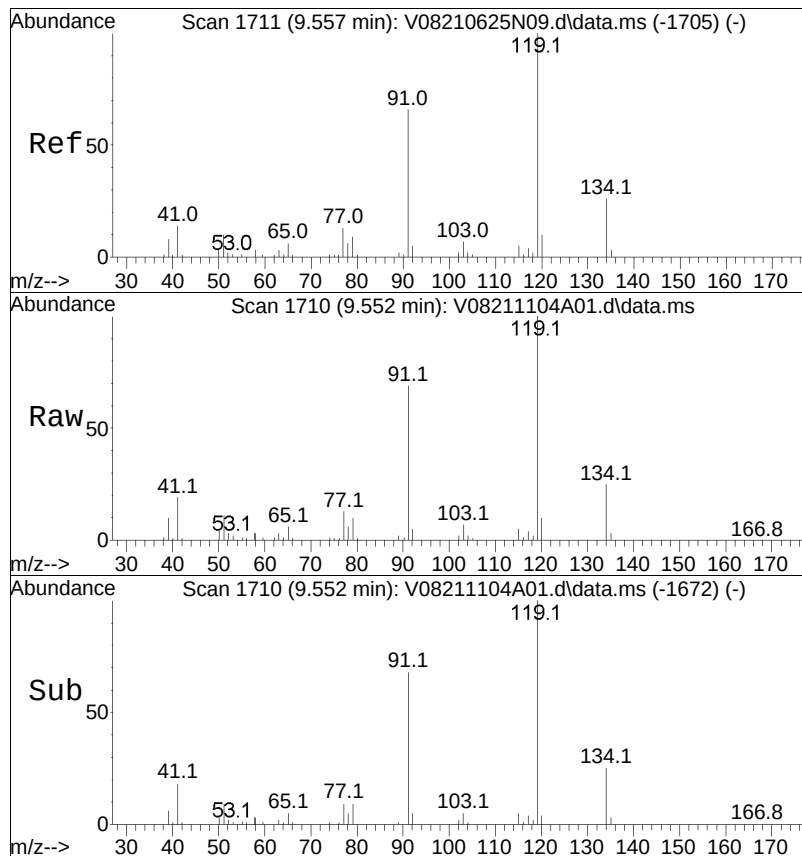




#93
 4-Chlorotoluene
 Concen: 9.72 ug/L
 RT: 9.426 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

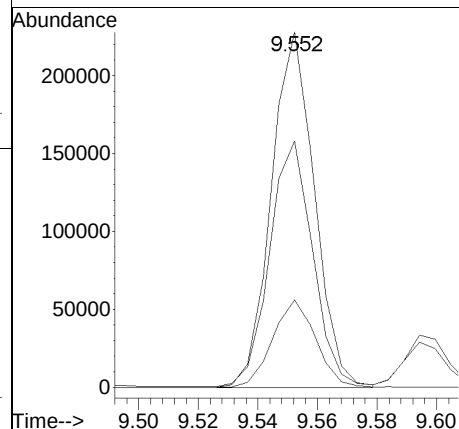
Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.0	24.6	36.8

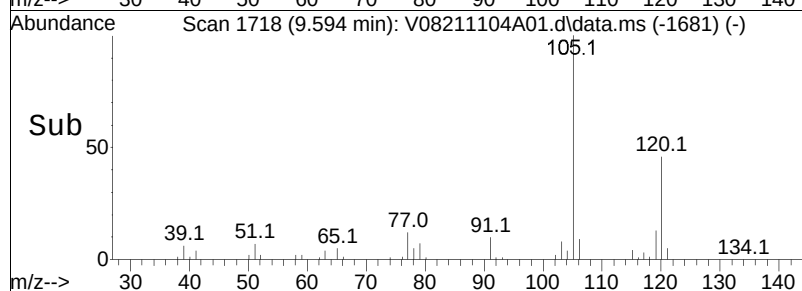
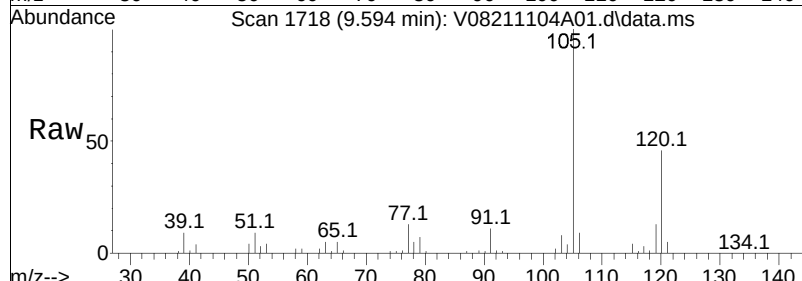
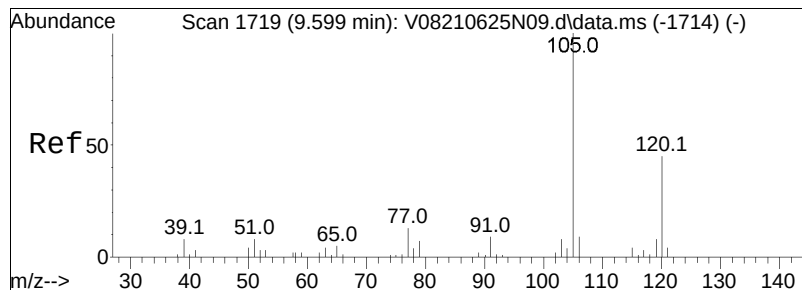




#94
 tert-Butylbenzene
 Concen: 9.47 ug/L
 RT: 9.552 min Scan# 1710
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

Tgt	Ion	Ratio	Resp	Lower	Upper
119	100		229197		
91	68.7	51.4	77.2		
134	24.8	18.3	27.5		





#97

1,2,4-Trimethylbenzene

Concen: 9.56 ug/L

RT: 9.594 min Scan# 1718

Delta R.T. -0.006 min

Lab File: V08211104A01.d

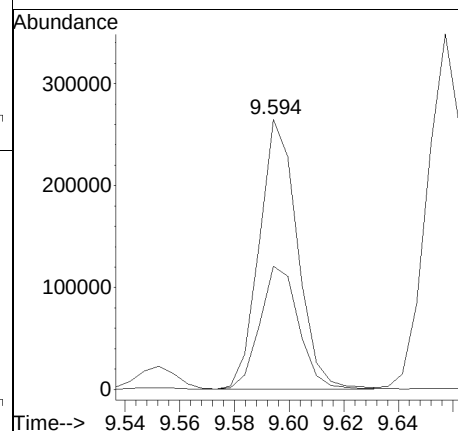
Acq: 4 Nov 2021 7:03 am

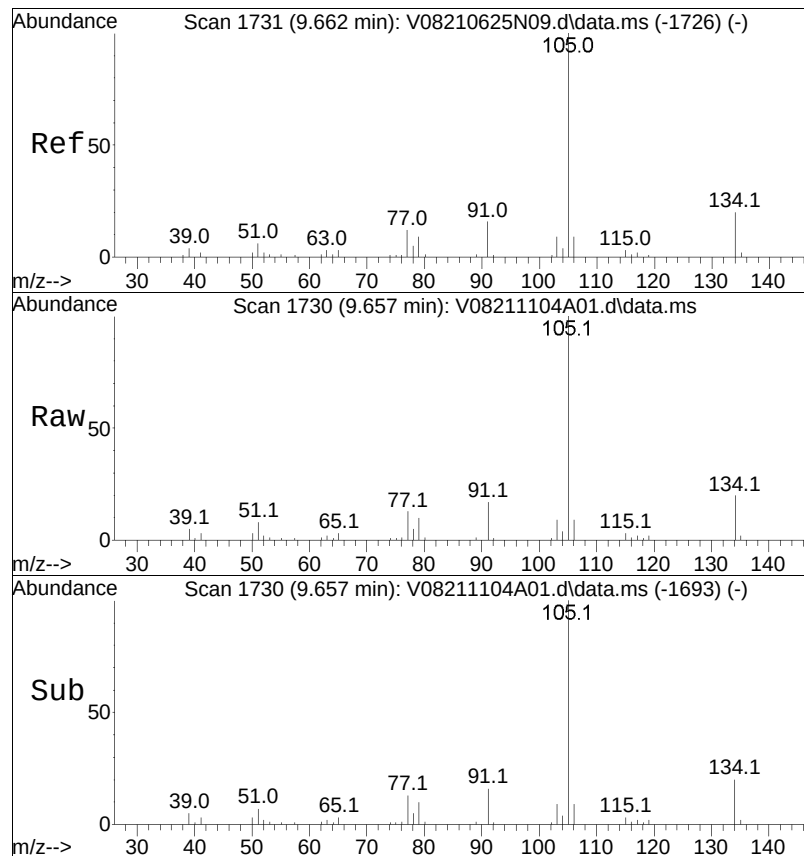
Tgt Ion:105 Resp: 256498

Ion Ratio Lower Upper

105 100

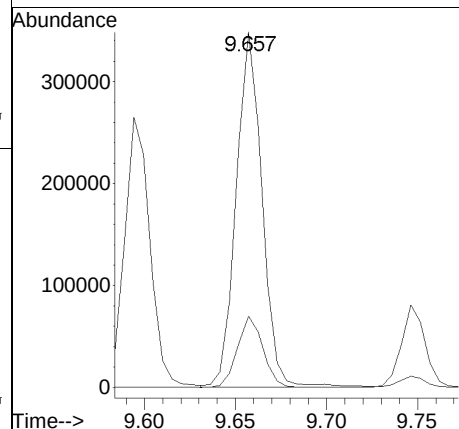
120 46.4 33.4 50.0

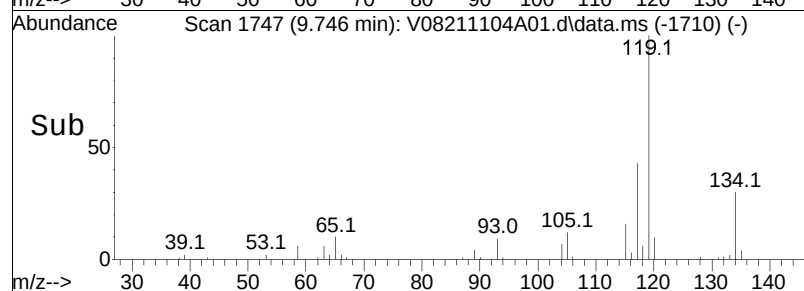
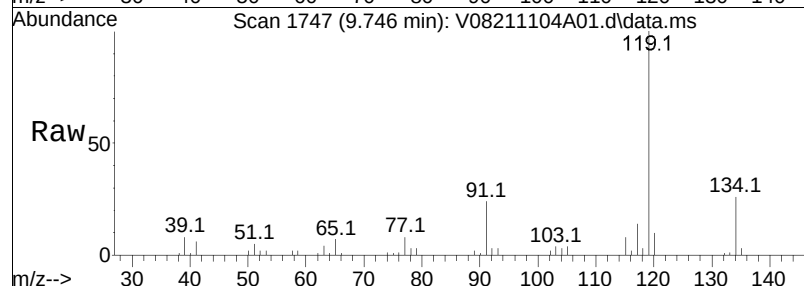
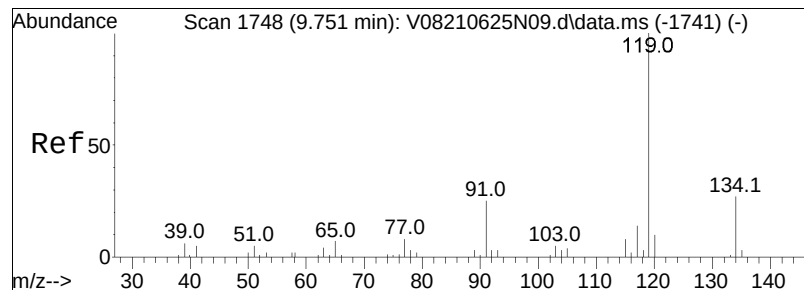




#98
 sec-Butylbenzene
 Concen: 9.98 ug/L
 RT: 9.657 min Scan# 1730
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

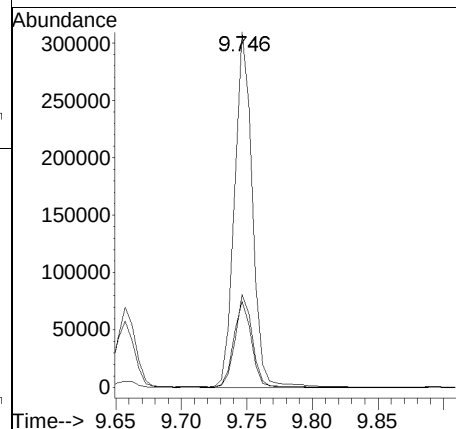
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	19.7	12.5	26.1	

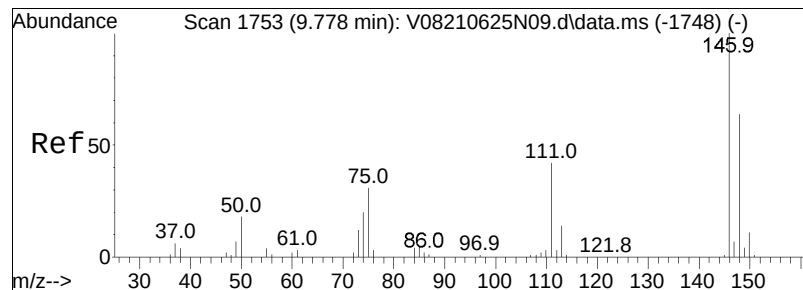




#99
 p-Isopropyltoluene
 Concen: 9.80 ug/L
 RT: 9.746 min Scan# 1747
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

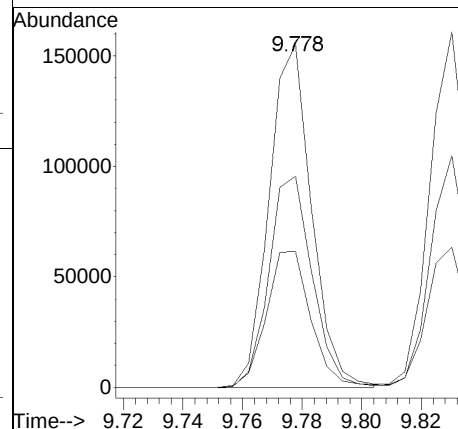
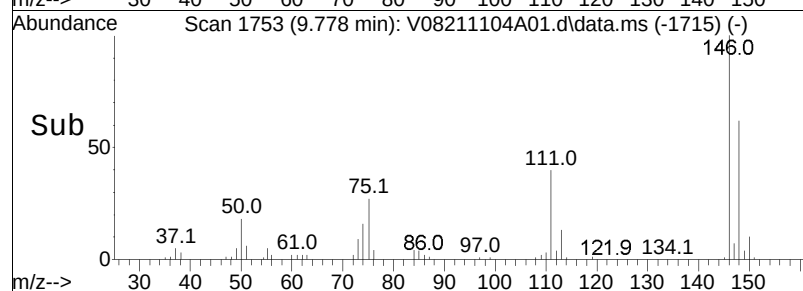
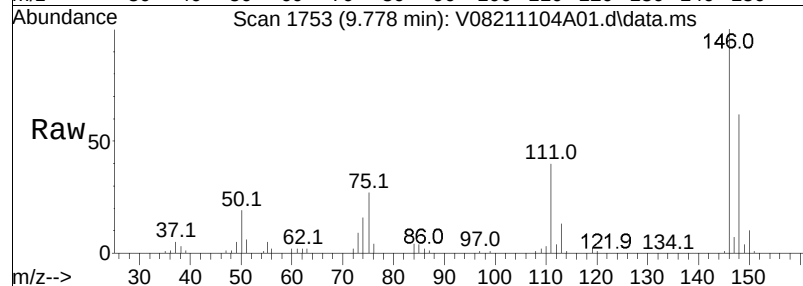
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.5	16.1	33.3
91	23.7	17.3	35.9

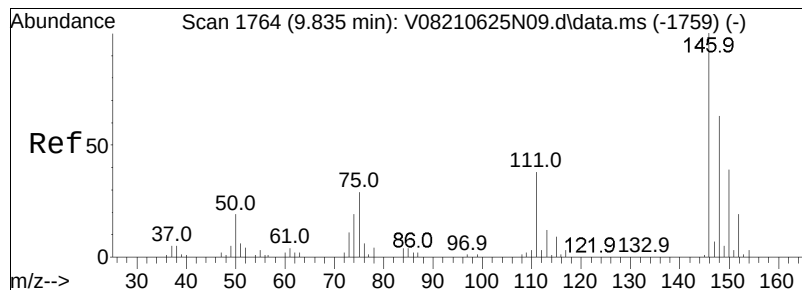




#100
 1,3-Dichlorobenzene
 Concen: 9.68 ug/L
 RT: 9.778 min Scan# 1753
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

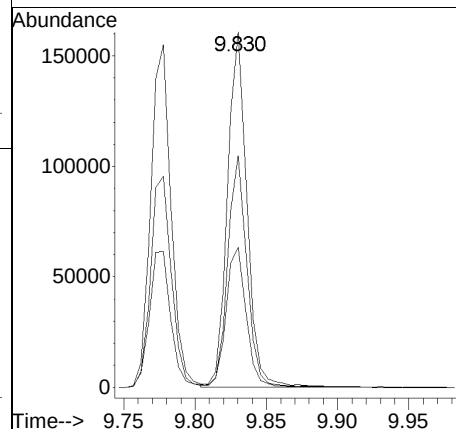
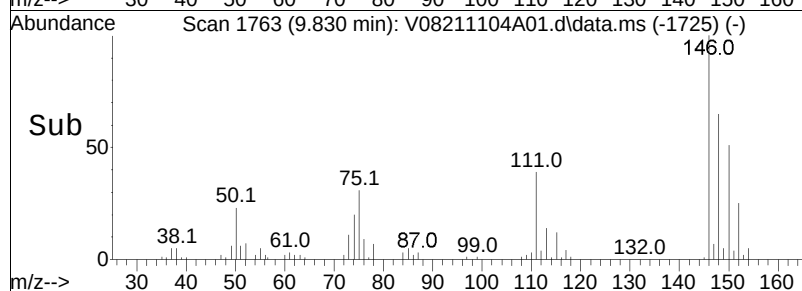
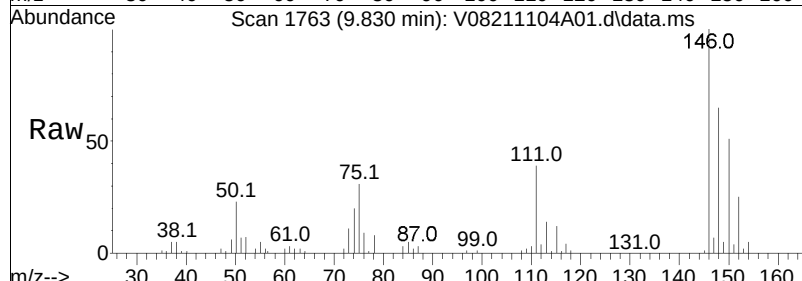
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	27.5	57.1
148	63.3	41.9	86.9

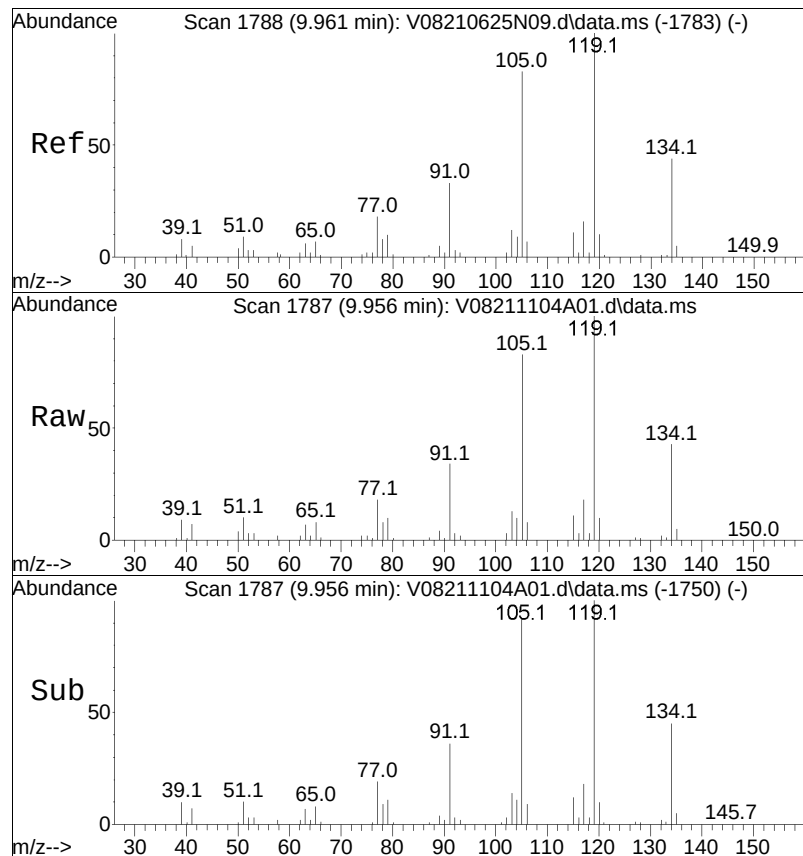




#101
 1,4-Dichlorobenzene
 Concen: 9.49 ug/L
 RT: 9.830 min Scan# 1763
 Delta R.T. 0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

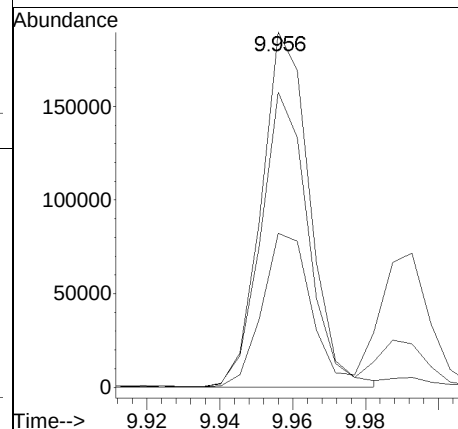
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	32.3	48.5
148	64.5	49.9	74.9

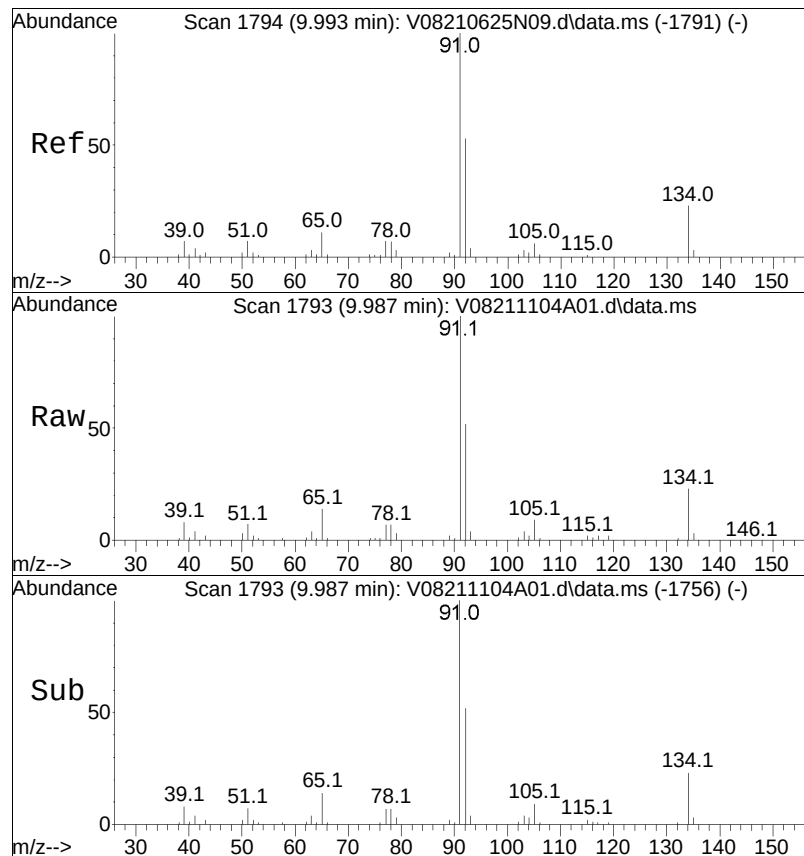




#102
 p-Diethylbenzene
 Concen: 9.80 ug/L
 RT: 9.956 min Scan# 1787
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

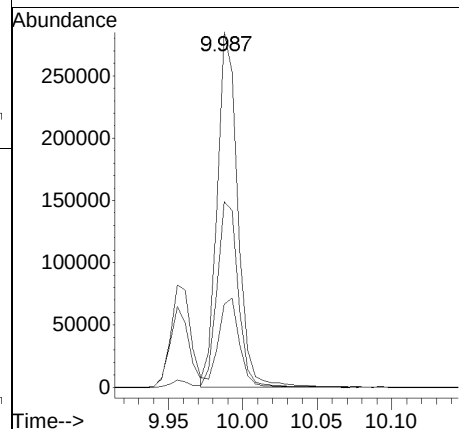
Tgt	Ion:119	Resp:	174515
Ion	Ratio	Lower	Upper
119	100		
105	80.8	59.5	123.7
134	44.7	30.2	62.6

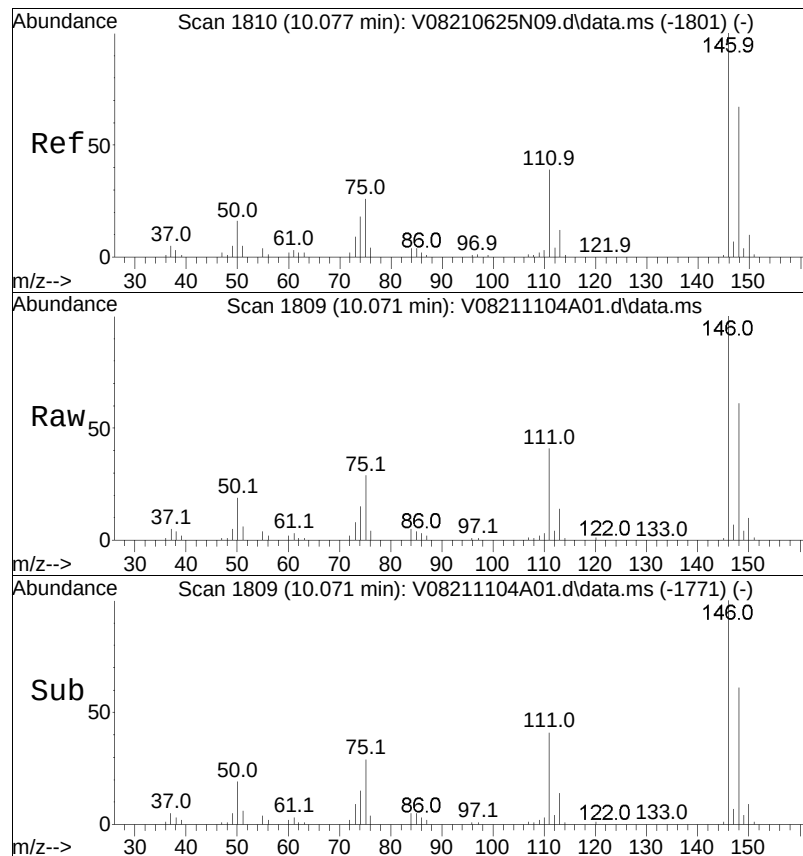




#103
 n-Butylbenzene
 Concen: 10.22 ug/L
 RT: 9.987 min Scan# 1793
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

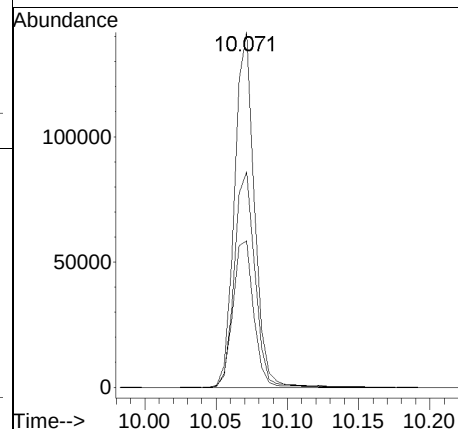
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.0	64.4
134	24.6	19.6	29.4

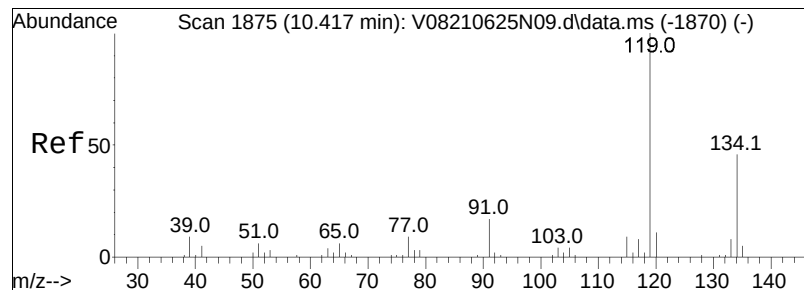




#104
 1,2-Dichlorobenzene
 Concen: 9.42 ug/L
 RT: 10.071 min Scan# 1809
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

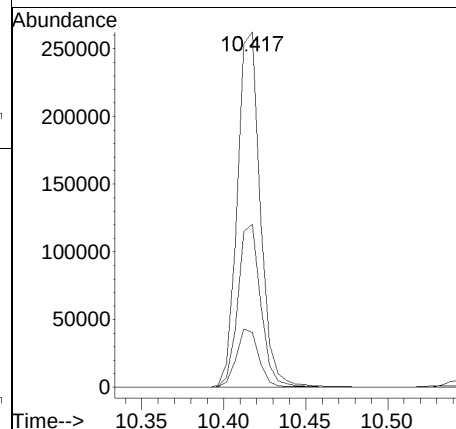
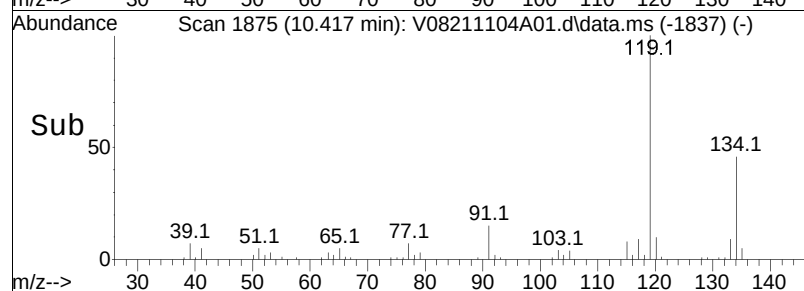
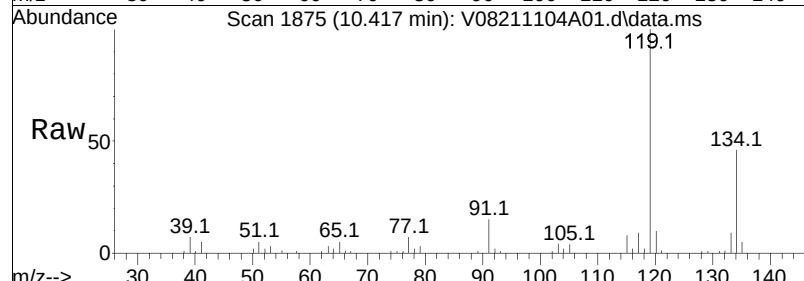
Tgt Ion:	146	Resp:	137842
Ion Ratio	Lower	Upper	
146	100		
111	43.3	28.3	58.7
148	63.1	42.3	87.8

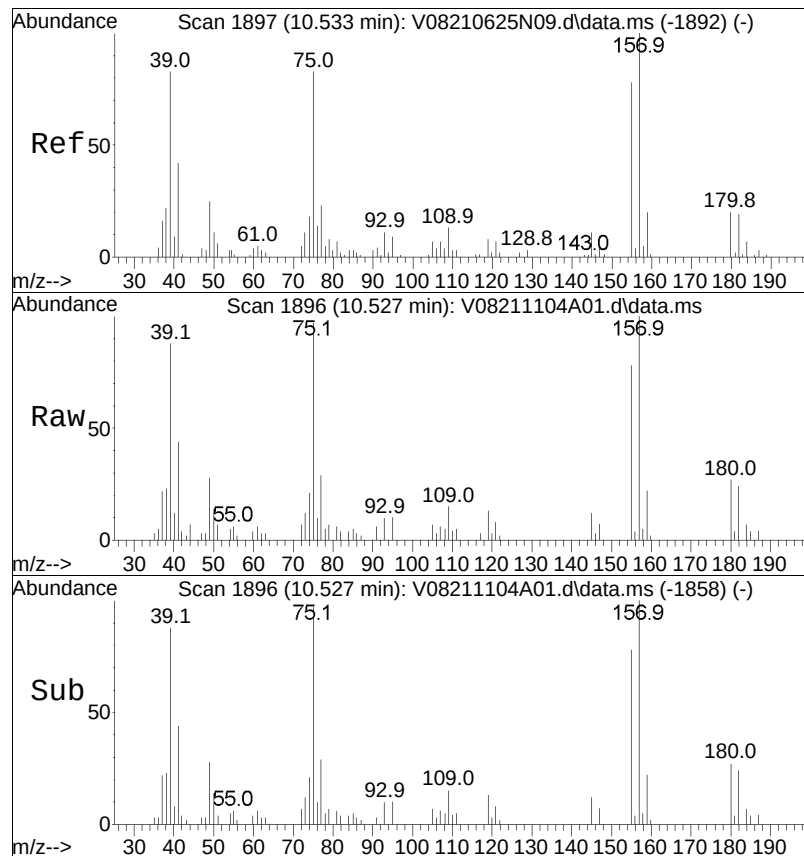




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.66 ug/L
 RT: 10.417 min Scan# 1875
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

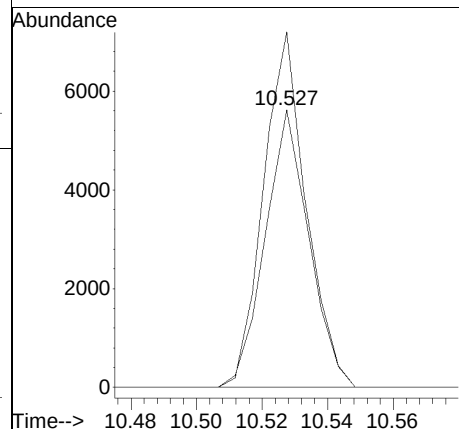
Tgt Ion:	119	Resp:	257356
Ion Ratio	Lower	Upper	
119	100		
134	45.7	30.5	63.3
91	16.3	12.4	25.7

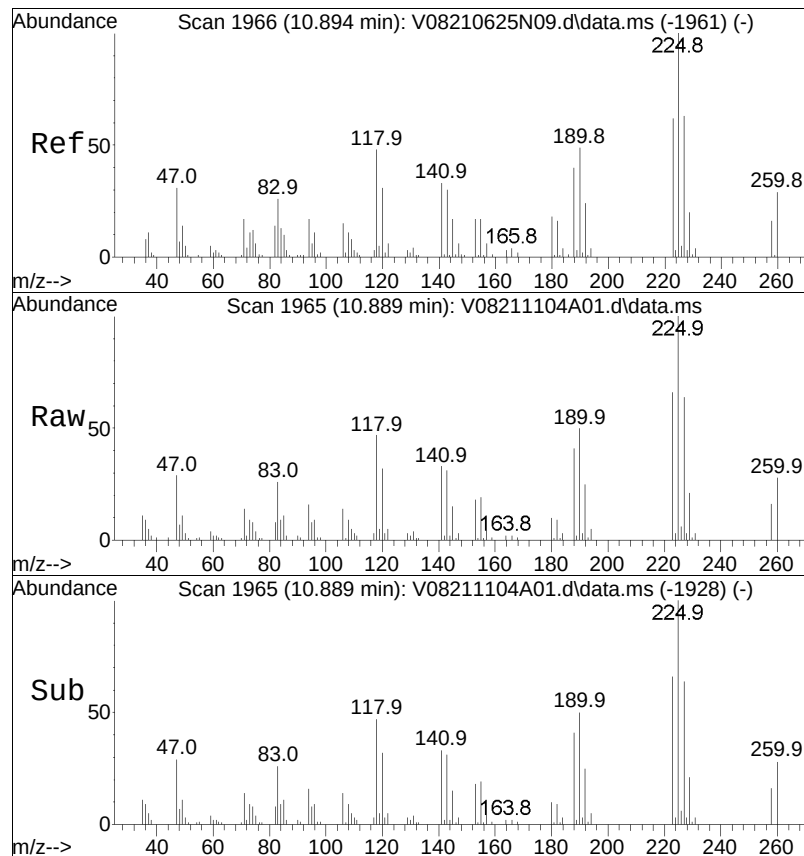




#106
 1,2-Dibromo-3-chloropropane
 Concen: 7.32 ug/L
 RT: 10.527 min Scan# 1896
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

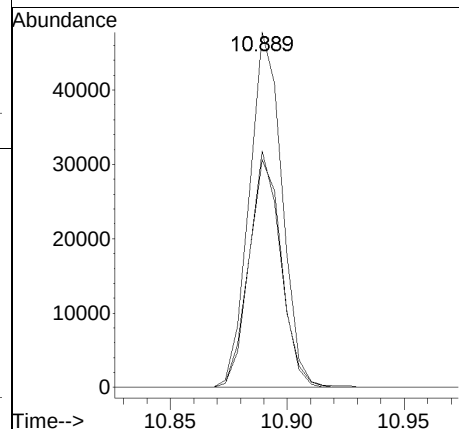
Tgt Ion:155 Resp: 5209
 Ion Ratio Lower Upper
 155 100
 157 124.9 94.8 142.2

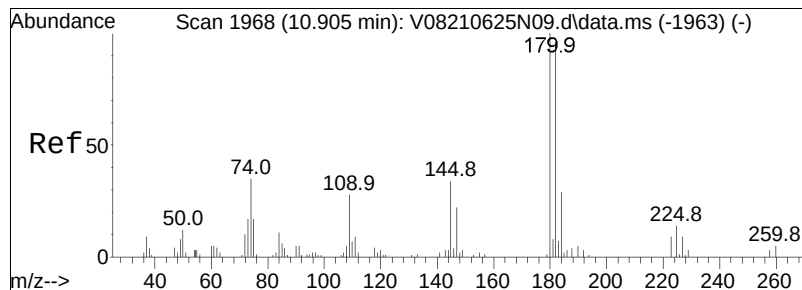




#108
 Hexachlorobutadiene
 Concen: 9.47 ug/L
 RT: 10.889 min Scan# 1965
 Delta R.T. -0.006 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

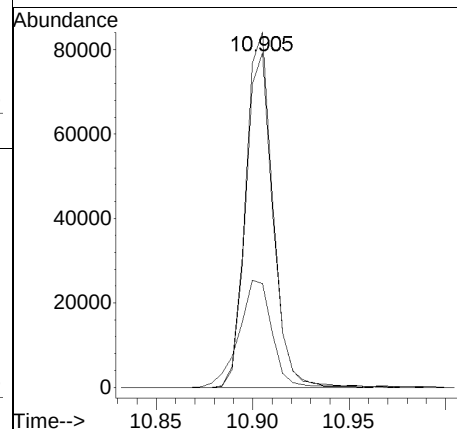
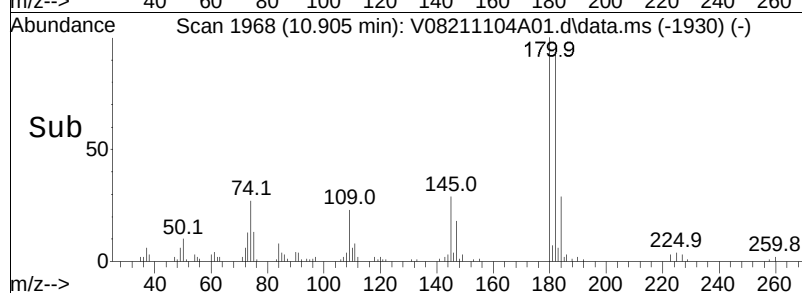
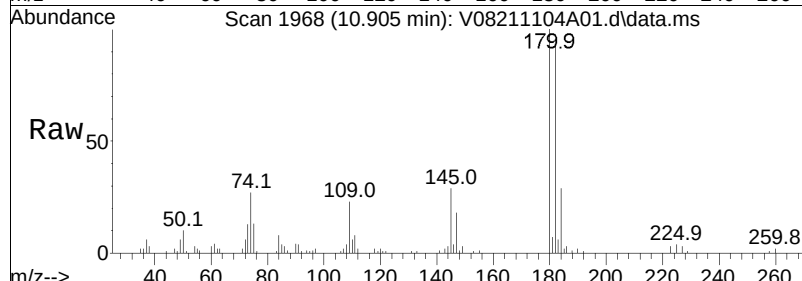
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	46623		
223	64.3		54.3	81.5
227	63.4		52.4	78.6

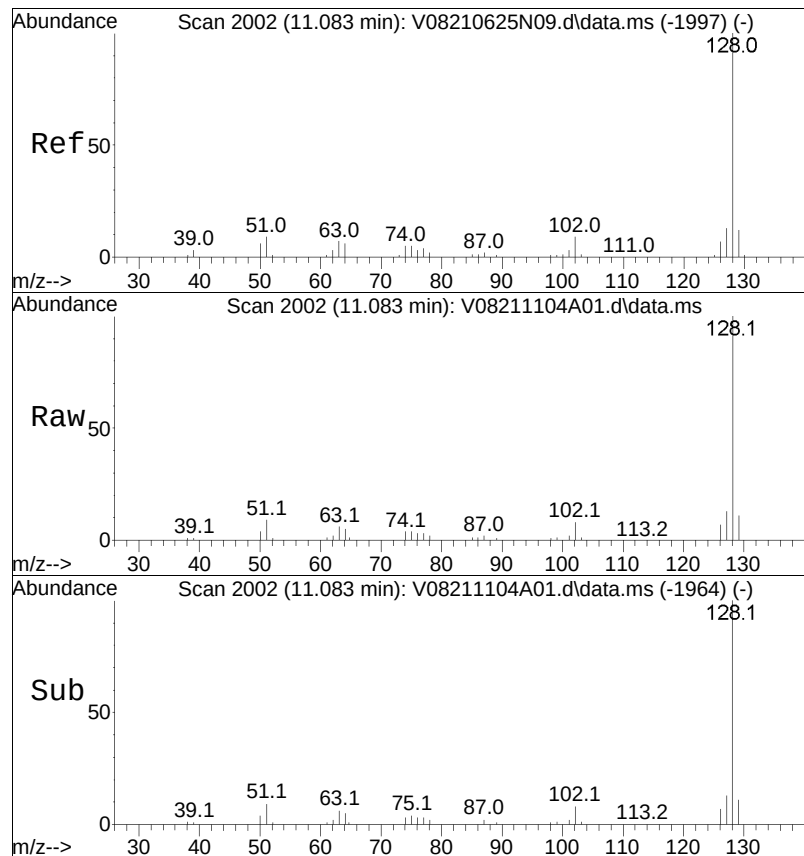




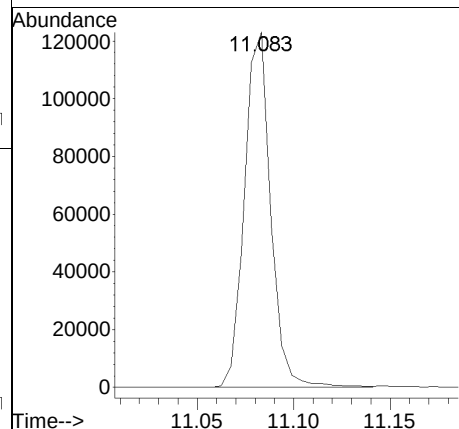
#109
 1,2,4-Trichlorobenzene
 Concen: 8.30 ug/L
 RT: 10.905 min Scan# 1968
 Delta R.T. -0.000 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

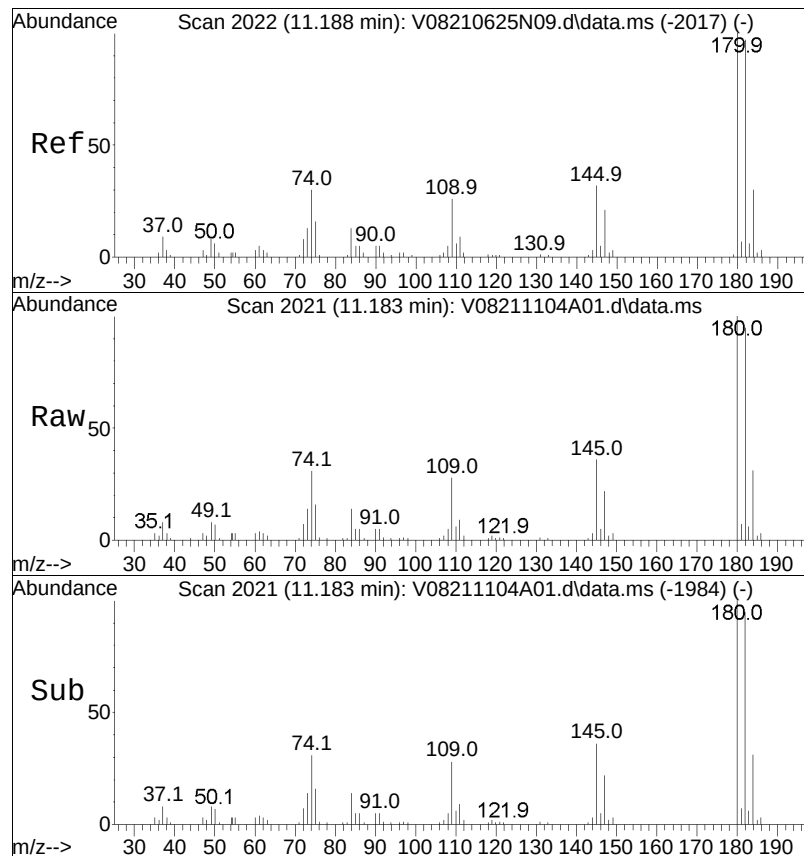
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.3	115.9
145	36.6	28.1	42.1





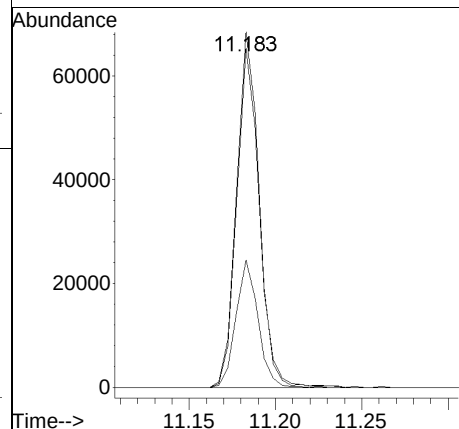
#110
 Naphthalene
 Concen: 6.62 ug/L
 RT: 11.083 min Scan# 2002
 Delta R.T. -0.001 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am
 Tgt Ion:128 Resp: 116685





#111
 1,2,3-Trichlorobenzene
 Concen: 7.29 ug/L
 RT: 11.183 min Scan# 2021
 Delta R.T. -0.005 min
 Lab File: V08211104A01.d
 Acq: 4 Nov 2021 7:03 am

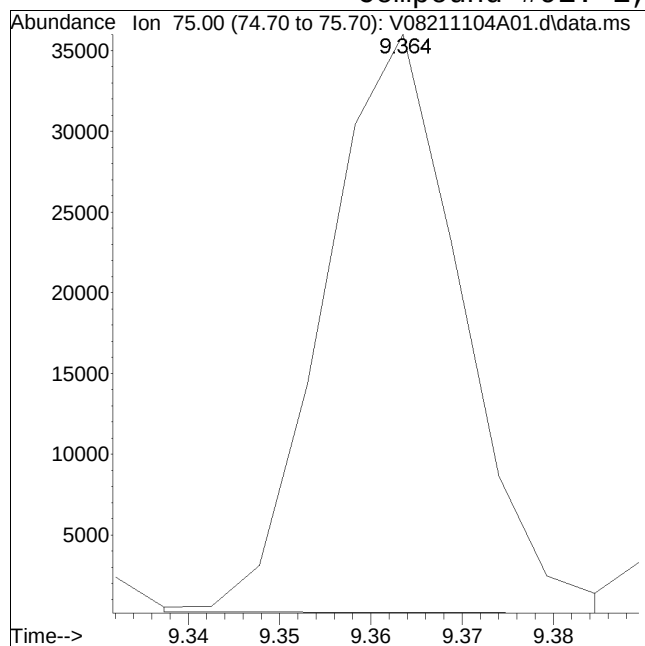
Tgt	Ion:180	Resp:	62491
Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
145	34.8	26.4	39.6



Manual Integration Report

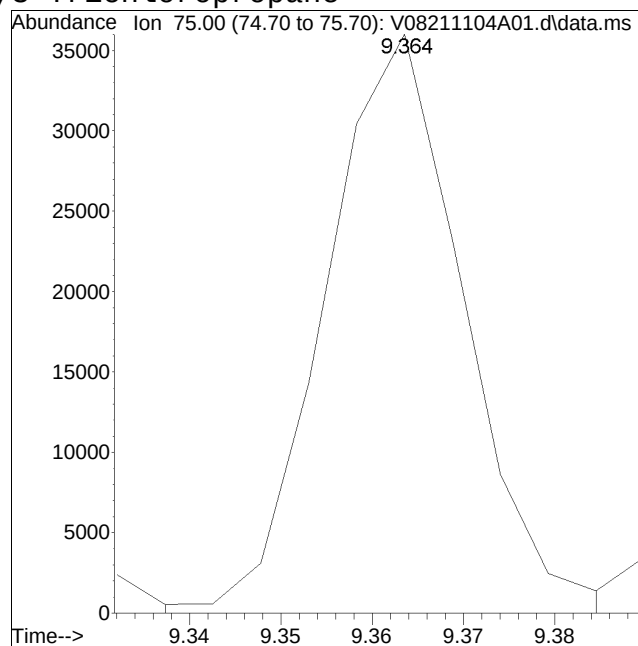
Data Path : I:\VOLATILES\VOA108\2021\20Method : V108_211004N_8260.m
Data File : V08211104A01.d Operator : VOA108:PD
Date Inj'd : 11/4/2021 7:03 am Instrument : VOA 108
Sample : WG1567182-3,31,10,10 Quant Date : 11/4/2021 7:50 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 37243

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 37813 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-3,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	263077	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.058	117	187330	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.852	152	102658	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.805	113	68741	17.154	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	85.77%	
43) 1,2-Dichloroethane-d4	5.309	65	63231	16.645	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	83.22%	
60) Toluene-d8	7.238	98	241273	20.455	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	102.27%	
83) 4-Bromofluorobenzene	10.599	95	88563	18.627	ug/L	0.00
Spiked Amount 20.000	Range 70	- 130	Recovery	=	93.13%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	137336	35.949	ug/L	98
3) Chloromethane	1.675	50	236829	46.585	ug/L	99
4) Vinyl chloride	1.723	62	196137	46.478	ug/L	97
5) Bromomethane	2.000	94	100473	53.612	ug/L	98
6) Chloroethane	2.105	64	92729	53.234	ug/L	93
7) Trichlorofluoromethane	2.226	101	205557	37.398	ug/L	100
8) Ethyl ether	2.488	74	64351	33.740	ug/L	83
10) 1,1-Dichloroethene	2.672	96	129349	40.732	ug/L	90
11) Carbon disulfide	2.698	76	413990	35.111	ug/L	99
15) Methylene chloride	3.185	84	147028	39.182	ug/L	83
17) Acetone	3.227	43	35546	46.598	ug/L	92
18) trans-1,2-Dichloroethene	3.327	96	146244	40.710	ug/L	91
20) Methyl tert-butyl ether	3.406	73	307785	33.455	ug/L	92
23) 1,1-Dichloroethane	3.877	63	318221	39.394	ug/L	98
25) Acrylonitrile	3.935	53	39216	32.393	ug/L	95
27) Vinyl acetate	4.098	43	304118	37.923	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	158529	39.370	ug/L	90
29) 2,2-Dichloropropane	4.465	77	212010	37.255	ug/L	95
30) Bromochloromethane	4.559	128	72457	39.072	ug/L #	85
32) Chloroform	4.632	83	249972	35.431	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-3,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34)	Carbon tetrachloride	4.748	117	192150	36.499	ug/L	99
37)	1,1,1-Trichloroethane	4.811	97	216877	38.782	ug/L	98
39)	2-Butanone	4.916	43	47447	33.132	ug/L	96
40)	1,1-Dichloropropene	4.931	75	184176	40.456	ug/L	100
41)	Benzene	5.167	78	533067	39.863	ug/L	96
44)	1,2-Dichloroethane	5.377	62	186944	35.589	ug/L	100
48)	Trichloroethene	5.754	95	144167	39.174	ug/L	99
50)	Dibromomethane	6.190	93	77036	35.985	ug/L	98
51)	1,2-Dichloropropane	6.284	63	170486	38.334	ug/L	95
54)	Bromodichloromethane	6.363	83	185715	36.663	ug/L	99
57)	1,4-Dioxane	6.572	88	51509	1770.186	ug/L #	81
58)	cis-1,3-Dichloropropene	7.039	75	217330	39.786	ug/L	96
61)	Toluene	7.291	92	317435	40.515	ug/L	100
62)	4-Methyl-2-pentanone	7.736	58	41754	36.248	ug/L	98
63)	Tetrachloroethene	7.726	166	156259	42.579	ug/L	98
65)	trans-1,3-Dichloropropene	7.789	75	176955	40.093	ug/L	97
68)	1,1,2-Trichloroethane	7.967	83	87258	39.879	ug/L	99
69)	Chlorodibromomethane	8.171	129	134760	41.451	ug/L	99
70)	1,3-Dichloropropane	8.282	76	170363	39.654	ug/L	99
71)	1,2-Dibromoethane	8.439	107	105161	35.799	ug/L	100
72)	2-Hexanone	8.738	43	72765	33.028	ug/L	98
73)	Chlorobenzene	9.079	112	364900	40.407	ug/L	100
74)	Ethylbenzene	9.115	91	610891	39.995	ug/L	100
75)	1,1,1,2-Tetrachloroethane	9.162	131	132364	40.244	ug/L	99
76)	p/m Xylene	9.304	106	480173	85.268	ug/L	99
77)	o Xylene	9.844	106	466474	77.678	ug/L	99
78)	Styrene	9.923	104	773557	81.205	ug/L	100
80)	Bromoform	9.949	173	78256	34.302	ug/L	100
82)	Isopropylbenzene	10.253	105	612288	37.706	ug/L	99
84)	Bromobenzene	10.709	156	163511	41.475	ug/L	99
85)	n-Propylbenzene	10.756	91	724911	39.805	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.872	83	119763	35.431	ug/L	99
88)	4-Ethyltoluene	10.893	105	588258	37.540	ug/L	99
89)	2-Chlorotoluene	10.929	91	415720	38.091	ug/L	98
90)	1,3,5-Trimethylbenzene	10.997	105	469927	35.273	ug/L	98
91)	1,2,3-Trichloropropane	11.008	75	85501	32.674	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.071	53	40718	33.671	ug/L	98
93)	4-Chlorotoluene	11.123	91	431524	38.073	ug/L	99
94)	tert-Butylbenzene	11.344	119	442619	39.297	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-3,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.427	105	473456	35.564	ug/L	99
98)	sec-Butylbenzene	11.538	105	670967	37.988	ug/L	99
99)	p-Isopropyltoluene	11.700	119	557438	38.944	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	309281	39.811	ug/L	100
101)	1,4-Dichlorobenzene	11.868	146	310018	39.054	ug/L	98
102)	p-Diethylbenzene	12.088	119	341857	40.597	ug/L	99
103)	n-Butylbenzene	12.146	91	496120	39.013	ug/L	98
104)	1,2-Dichlorobenzene	12.298	146	290202	39.610	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.895	119	568180	41.551	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	21171	37.587	ug/L	100
108)	Hexachlorobutadiene	13.698	225	110947	35.287	ug/L	100
109)	1,2,4-Trichlorobenzene	13.724	180	213164	41.926	ug/L	99
110)	Naphthalene	14.017	128	404199	37.359	ug/L	100
111)	1,2,3-Trichlorobenzene	14.185	180	184732	39.894	ug/L	99

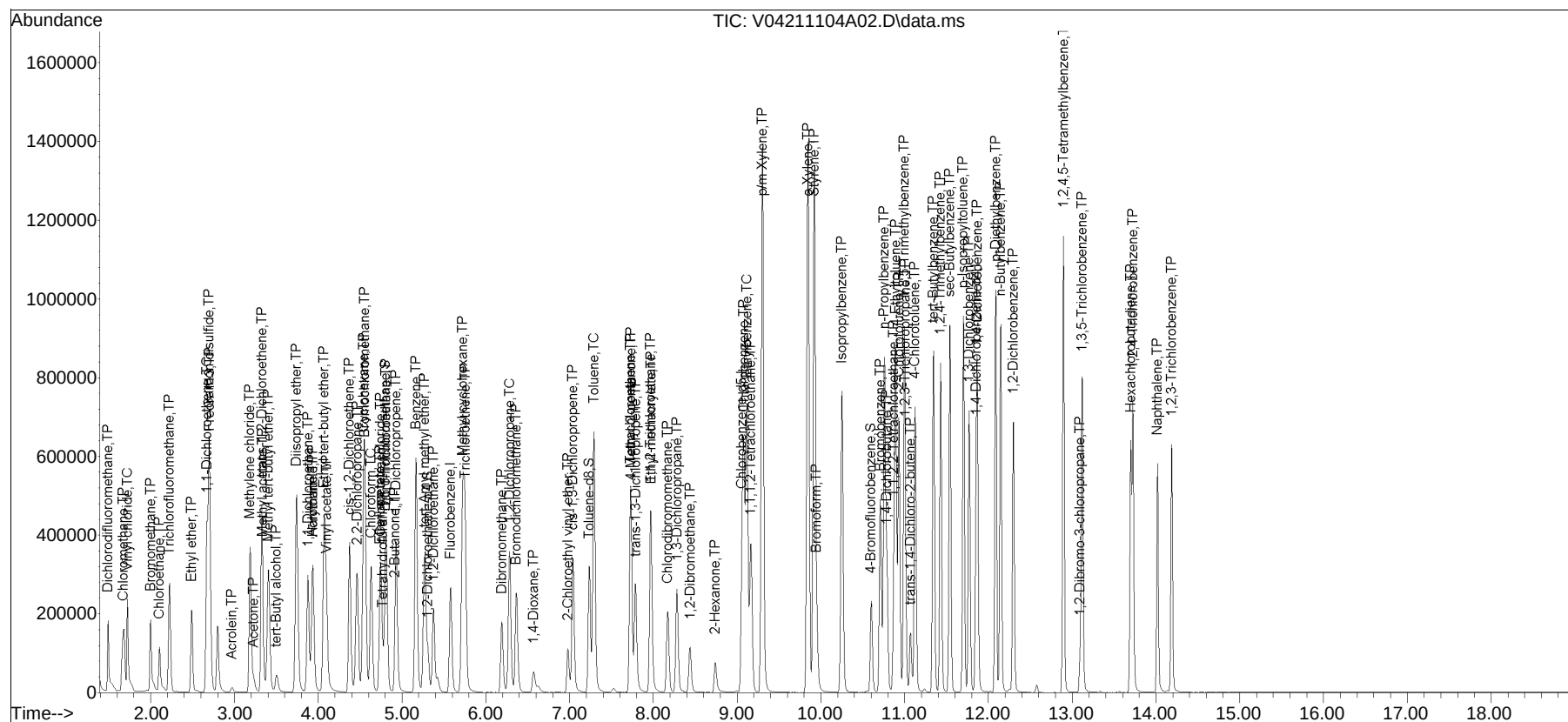
(#) = qualifier out of range (m) = manual integration (+) = signals summed

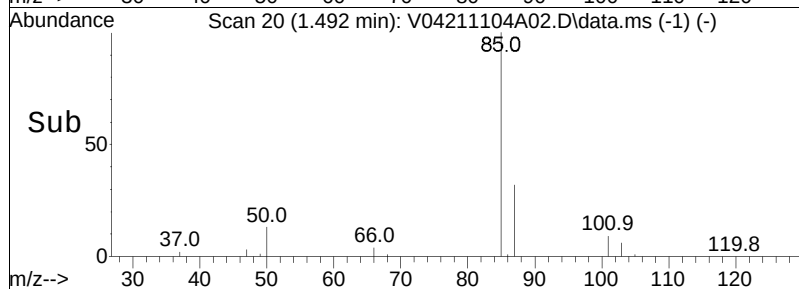
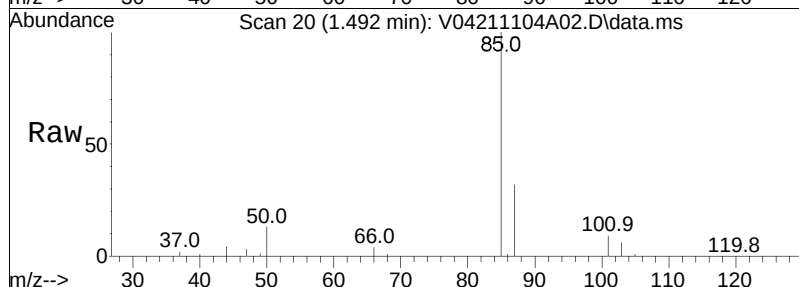
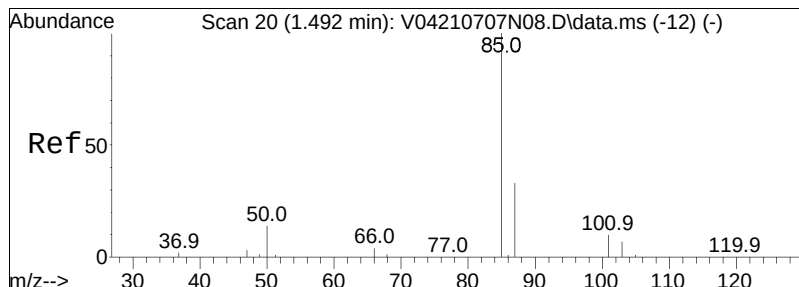
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A02.D
 Acq On : 4 Nov 2021 7:06 am
 Operator : VOA104:MV
 Sample : WG1567116-3,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:36:02 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

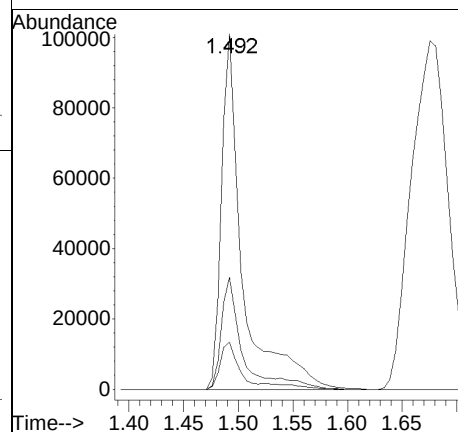
Sub List : 8260-CurveSoil - Megamix plus Diox4A\V04211104A02.D•

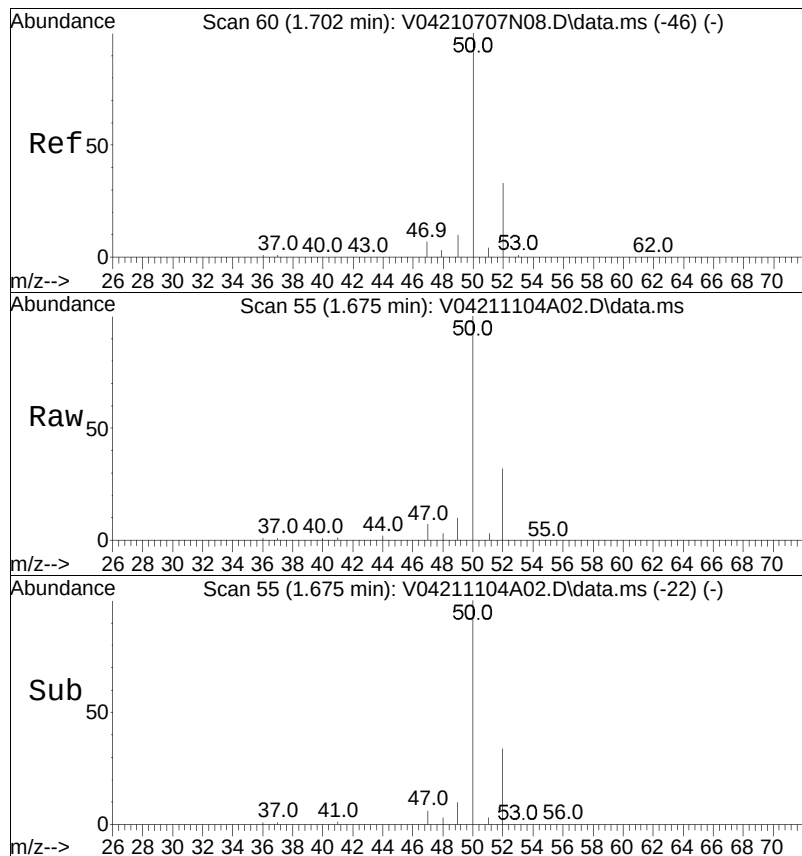




#2
 Dichlorodifluoromethane
 Concen: 35.95 ug/L
 RT: 1.492 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

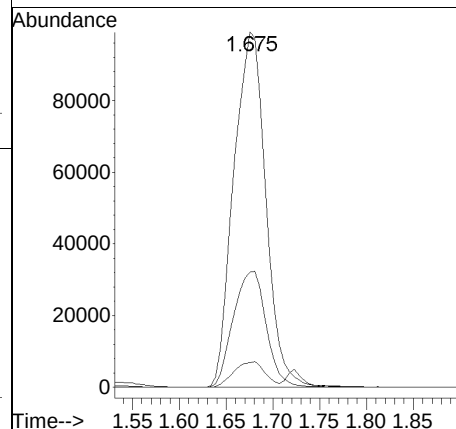
Tgt Ion	85	87	50	Ratio	Lower	Upper	Resp
85	100						137336
87	31.8	20.9				43.5	
50	14.3	8.1				16.9	

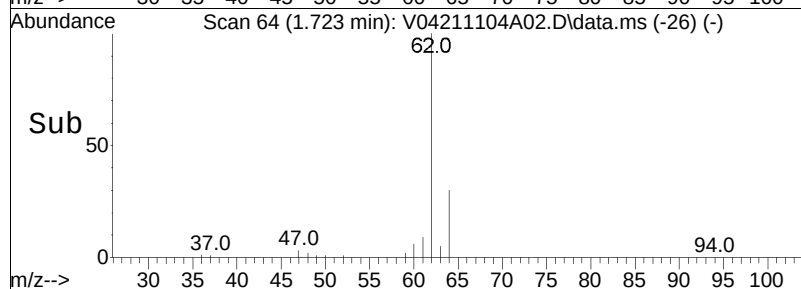
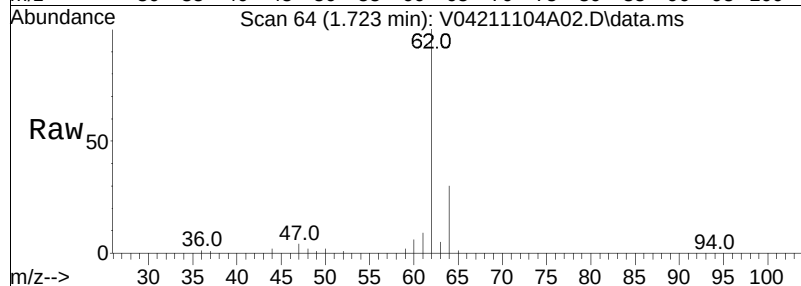
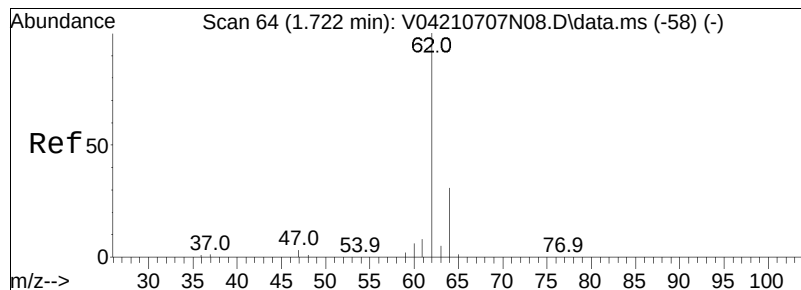




#3
 Chloromethane
 Concen: 46.58 ug/L
 RT: 1.675 min Scan# 55
 Delta R.T. -0.027 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

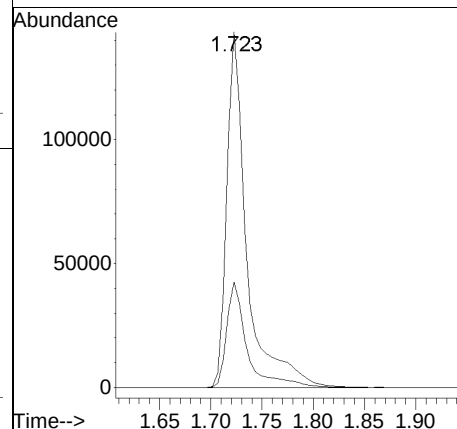
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.4	13.0	53.0
47	7.1	0.0	28.2

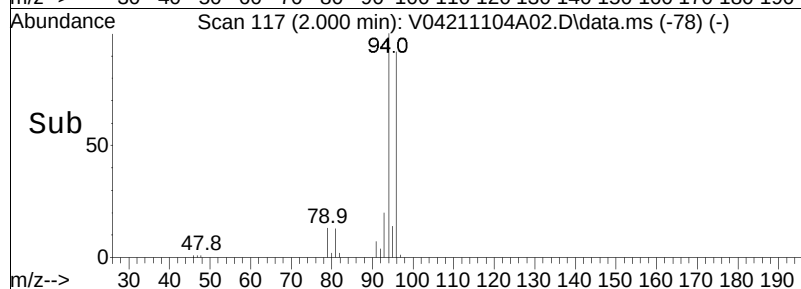
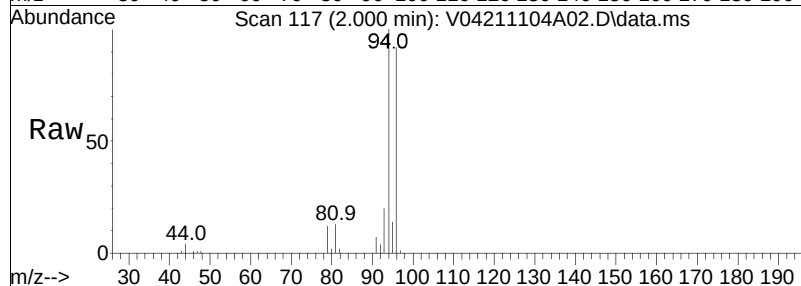
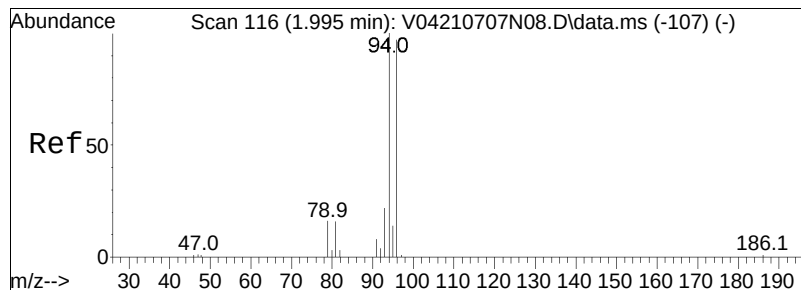




#4
 Vinyl chloride
 Concen: 46.48 ug/L
 RT: 1.723 min Scan# 64
 Delta R.T. 0.001 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

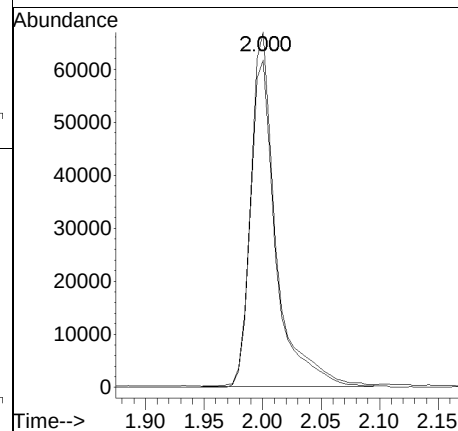
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.1	11.6	51.6

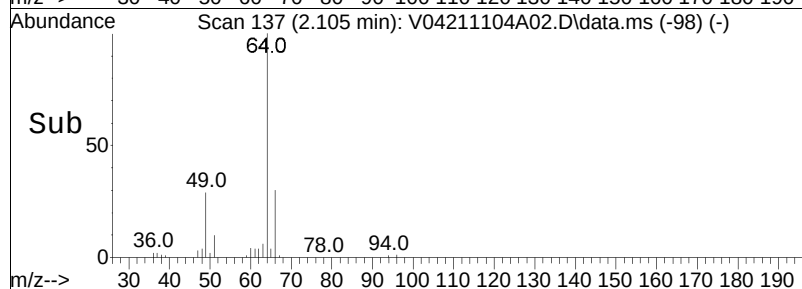
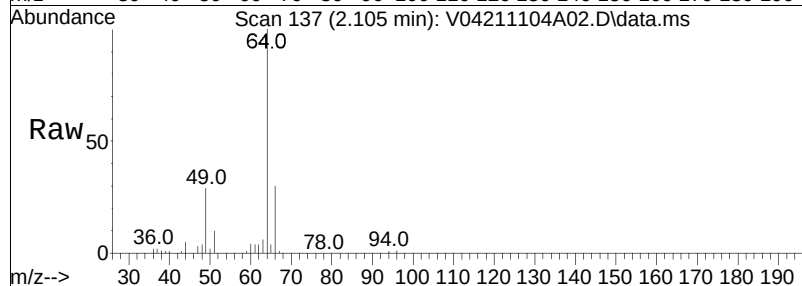
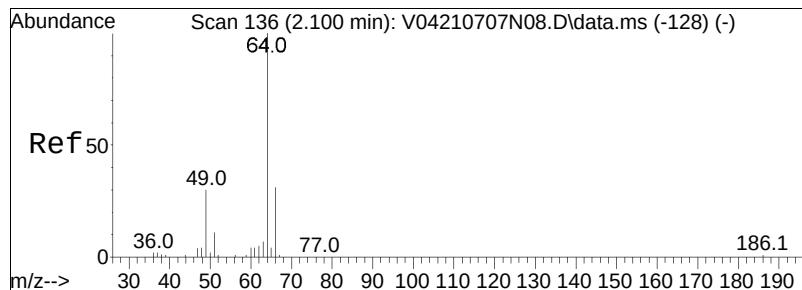




#5
Bromomethane
Concen: 53.61 ug/L
RT: 2.000 min Scan# 117
Delta R.T. 0.005 min
Lab File: V04211104A02.D
Acq: 4 Nov 2021 7:06 am

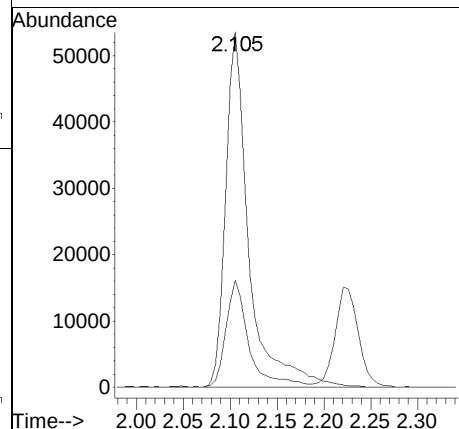
Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.1	71.0	111.0

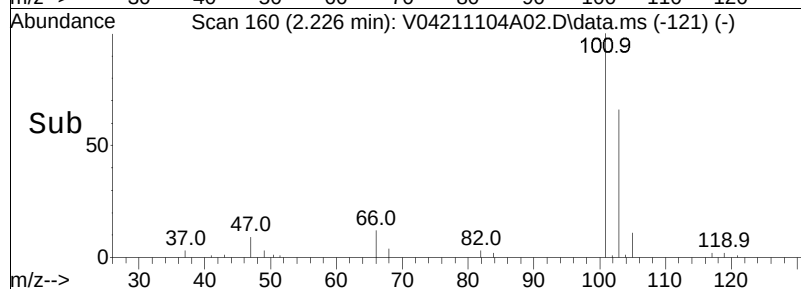
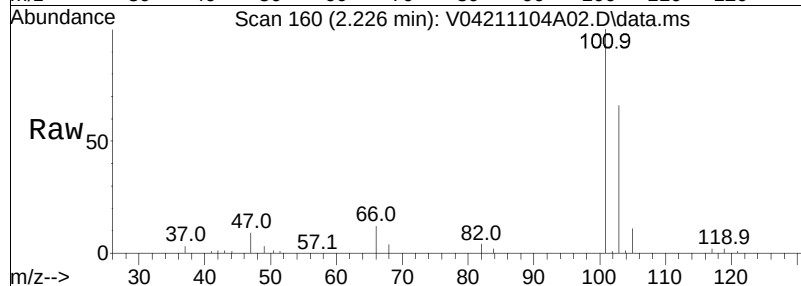
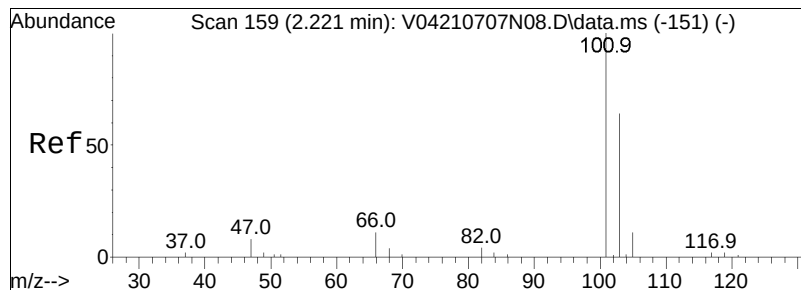




#6
 Chloroethane
 Concen: 53.23 ug/L
 RT: 2.105 min Scan# 137
 Delta R.T. 0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.0	13.7	53.7





#7

Trichlorofluoromethane

Concen: 37.40 ug/L

RT: 2.226 min Scan# 160

Delta R.T. 0.005 min

Lab File: V04211104A02.D

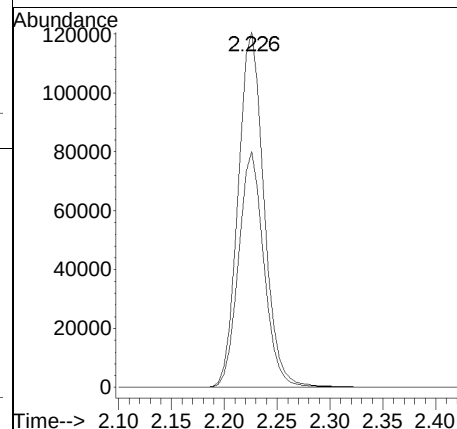
Acq: 4 Nov 2021 7:06 am

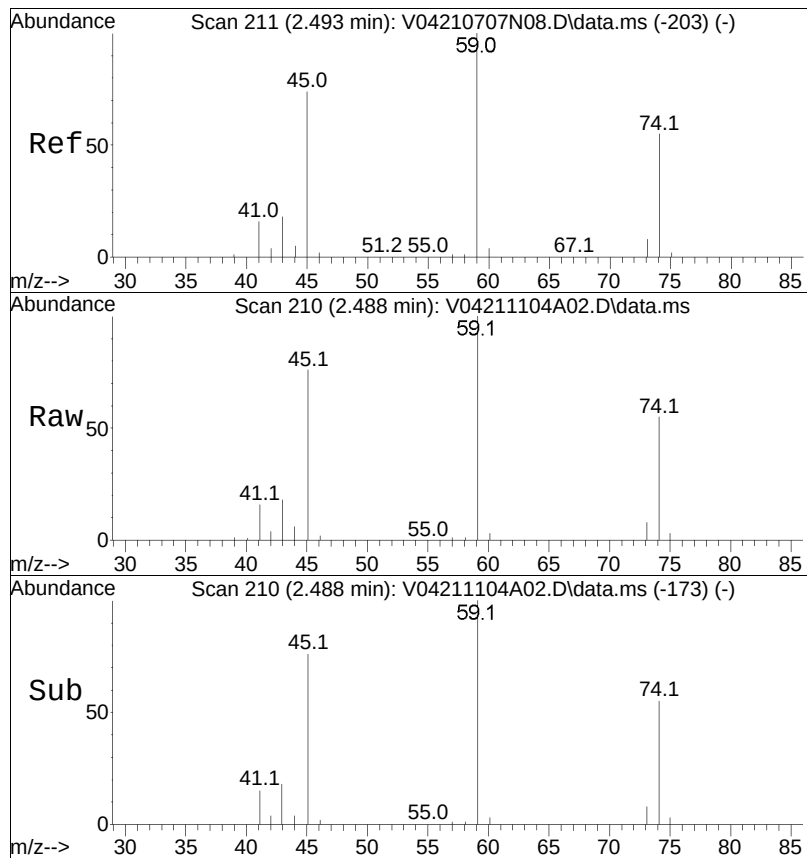
Tgt Ion:101 Resp: 205557

Ion Ratio Lower Upper

101 100

103 64.9 51.7 77.5





#8

Ethyl ether

Concen: 33.74 ug/L

RT: 2.488 min Scan# 210

Delta R.T. -0.005 min

Lab File: V04211104A02.D

Acq: 4 Nov 2021 7:06 am

Tgt Ion: 74 Resp: 64351

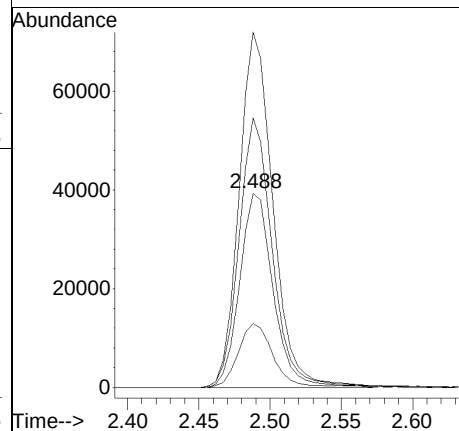
Ion Ratio Lower Upper

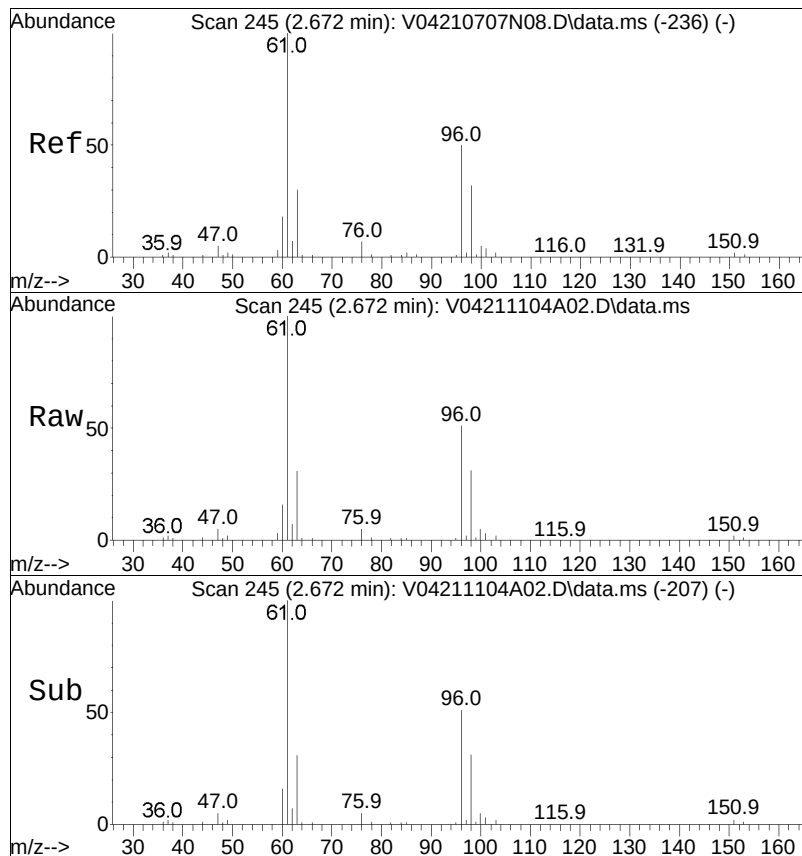
74 100

59 185.8 104.7 217.4

45 138.7 77.2 160.4

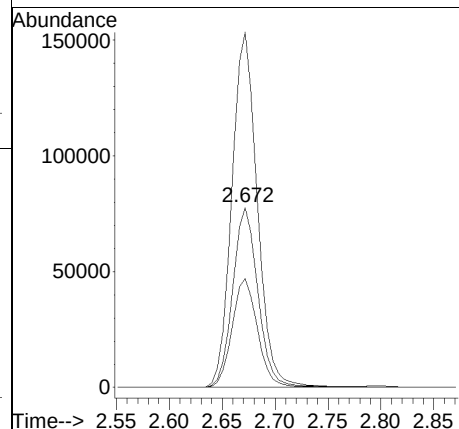
43 33.8 21.2 44.0

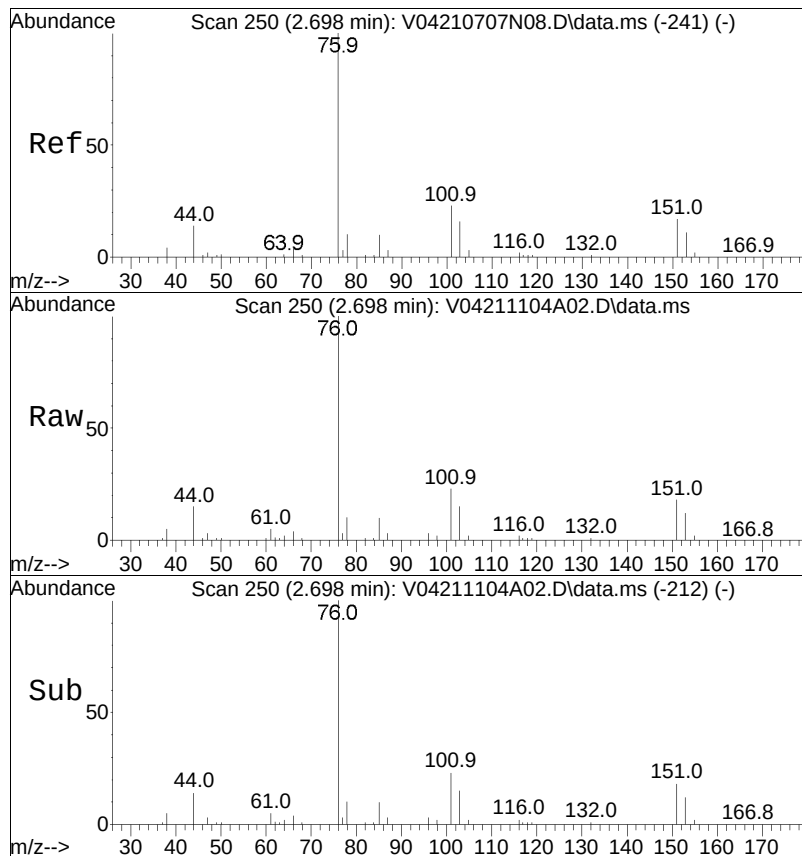




#10
 1,1-Dichloroethene
 Concen: 40.73 ug/L
 RT: 2.672 min Scan# 245
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

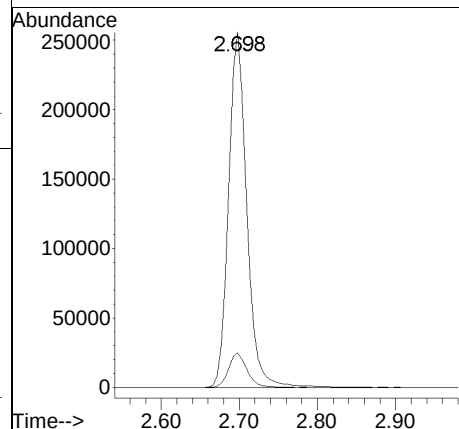
Tgt Ion:	96	Resp:	129349
Ion Ratio	Lower	Upper	
96	100		
61	199.0	145.8	218.6
63	60.8	46.6	69.8

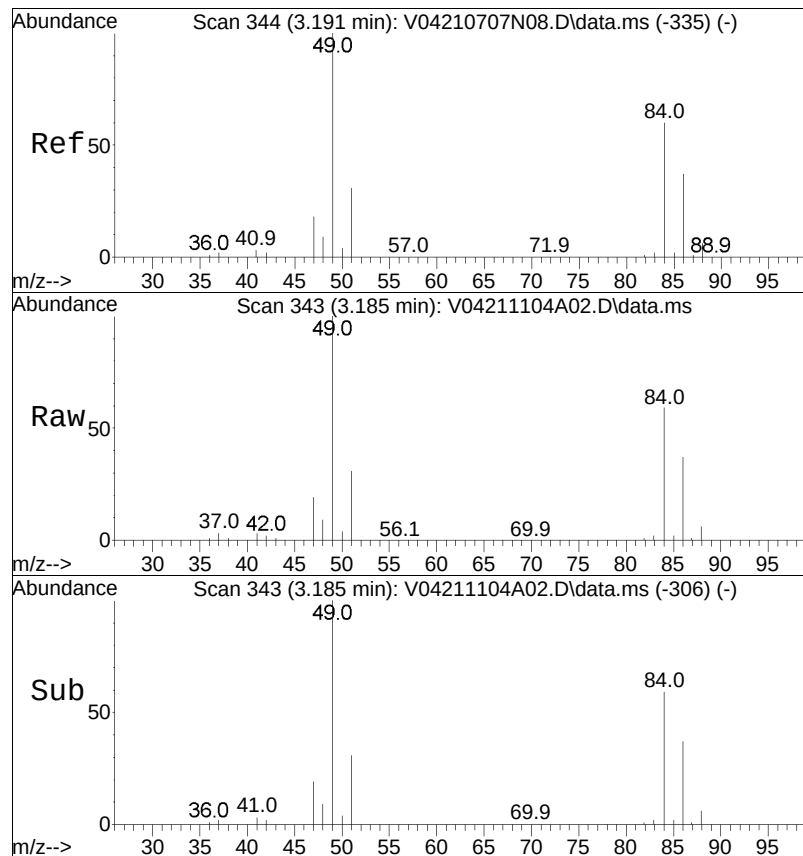




#11
 Carbon disulfide
 Concen: 35.11 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

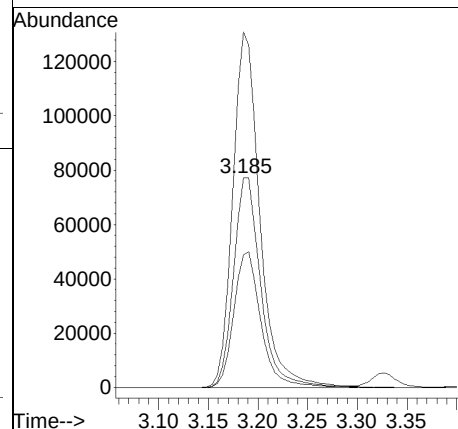
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.6	13.8

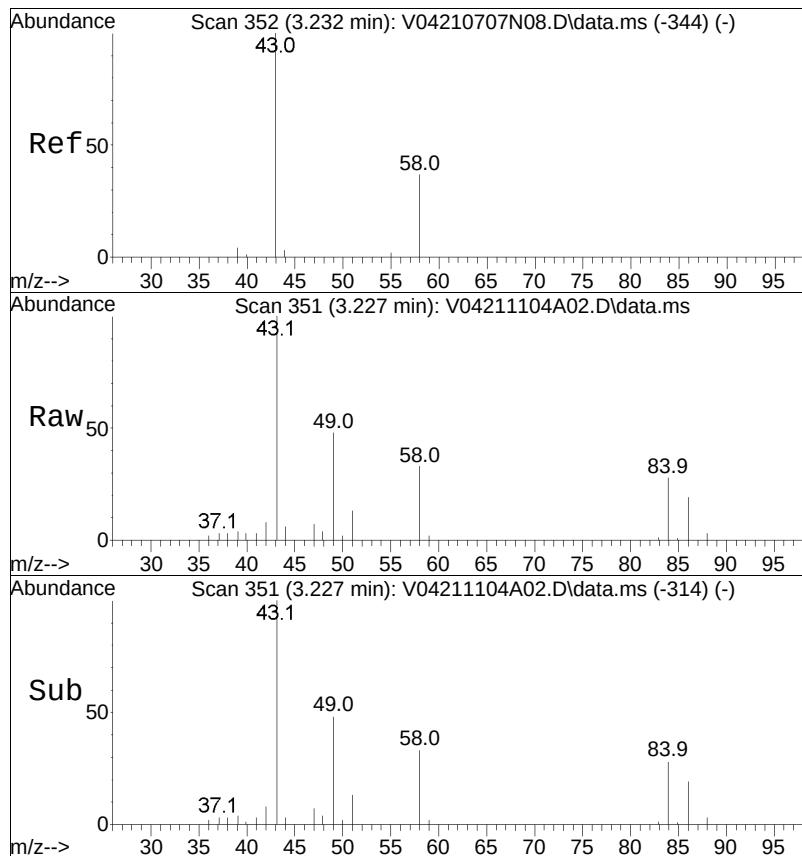




#15
 Methylene chloride
 Concen: 39.18 ug/L
 RT: 3.185 min Scan# 343
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

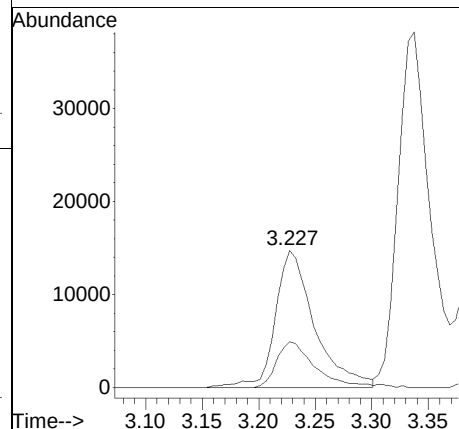
Tgt Ion:	84	Resp:	147028
Ion Ratio	Lower	Upper	
84	100		
86	64.6	41.3	85.9
49	168.6	91.0	189.0

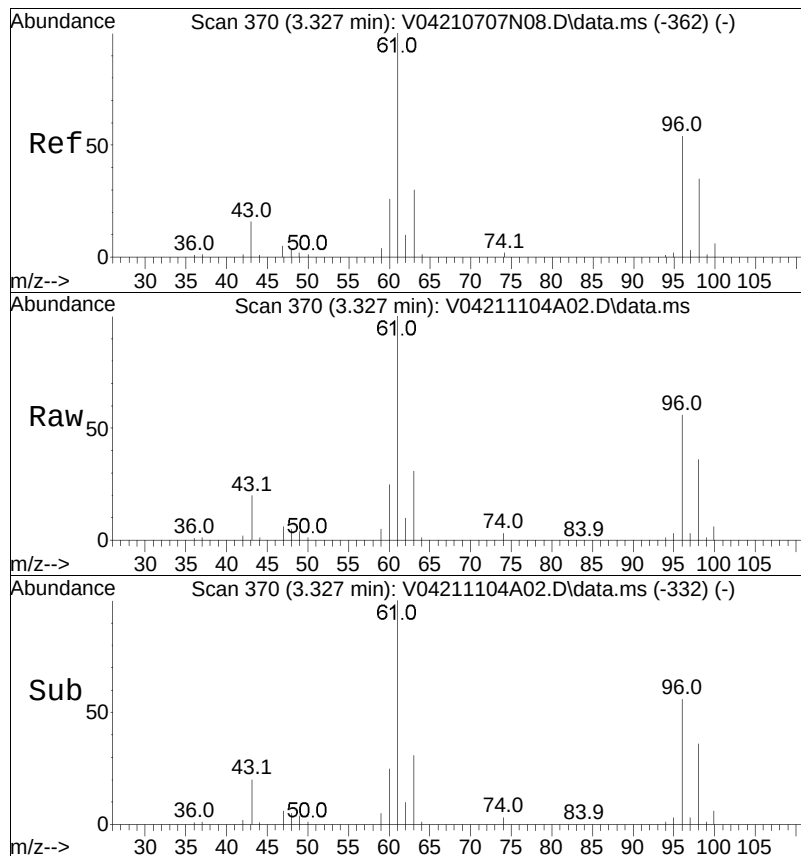




#17
 Acetone
 Concen: 46.60 ug/L
 RT: 3.227 min Scan# 351
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

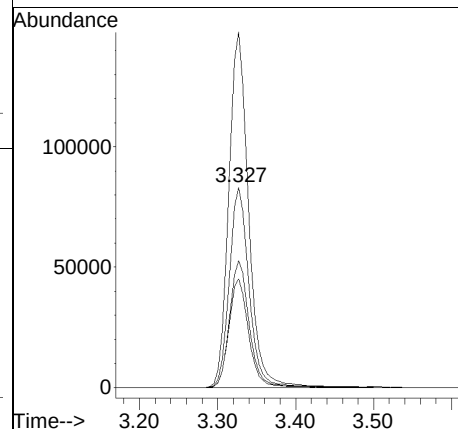
Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.1	23.2	34.8

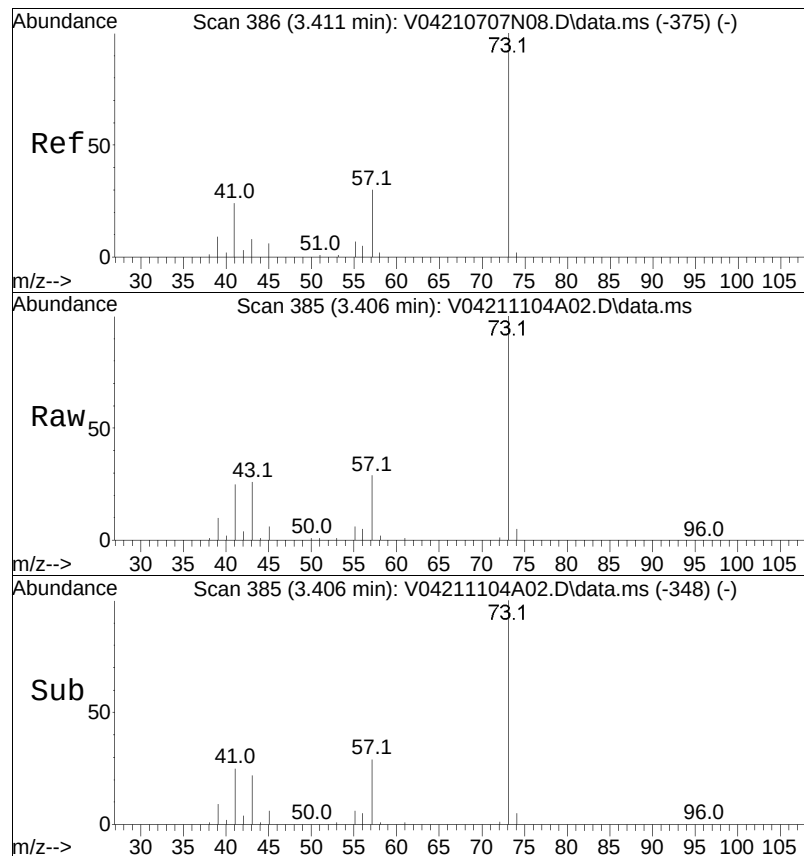




#18
 trans-1,2-Dichloroethene
 Concen: 40.71 ug/L
 RT: 3.327 min Scan# 370
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

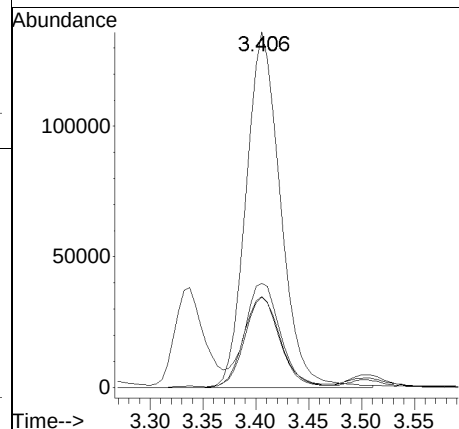
Tgt Ion: 96	Resp: 146244
Ion Ratio	Lower Upper
96 100	
61 177.6	103.7 215.3
98 62.9	41.0 85.0
63 54.2	32.1 66.7

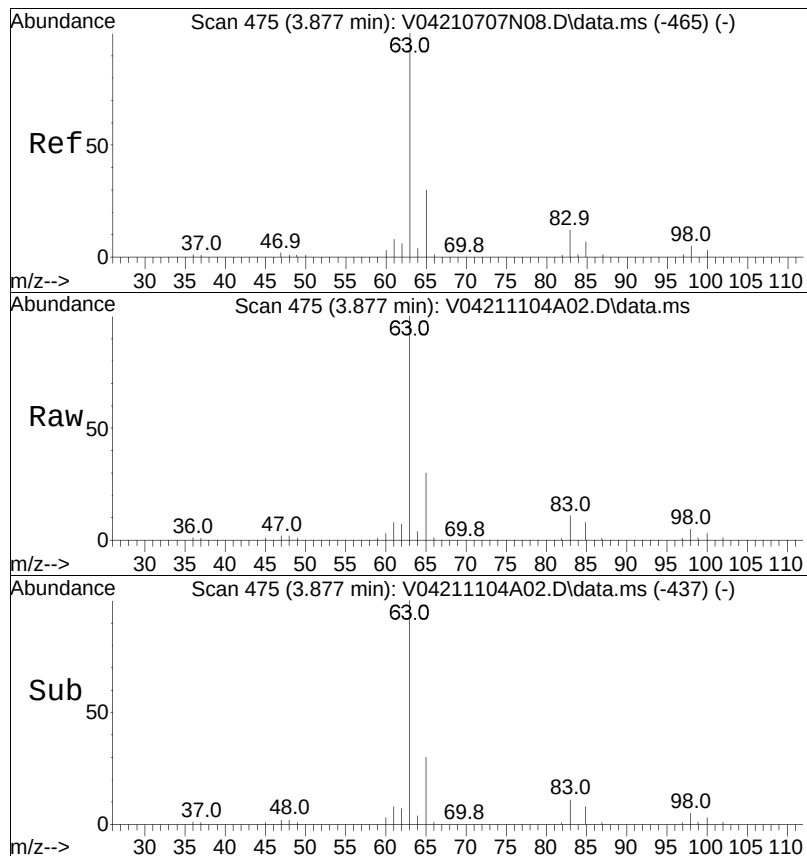




#20
Methyl tert-butyl ether
Concen: 33.46 ug/L
RT: 3.406 min Scan# 385
Delta R.T. -0.005 min
Lab File: V04211104A02.D
Acq: 4 Nov 2021 7:06 am

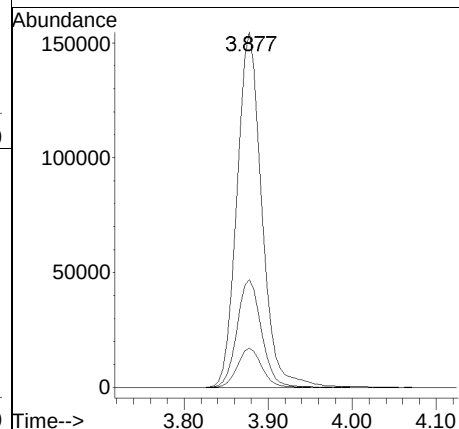
Tgt Ion:	73	Resp:	307785
Ion Ratio	Lower	Upper	
73	100		
57	30.5	16.3	33.9
43	26.5	14.7	30.5
41	25.5	15.4	32.0

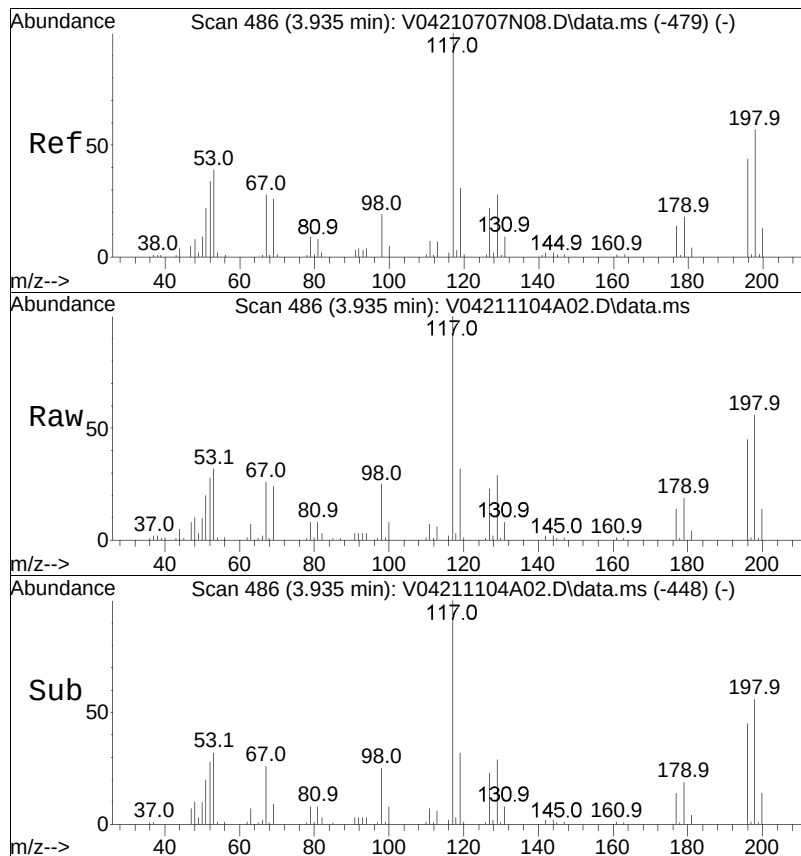




#23
 1,1-Dichloroethane
 Concen: 39.39 ug/L
 RT: 3.877 min Scan# 475
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

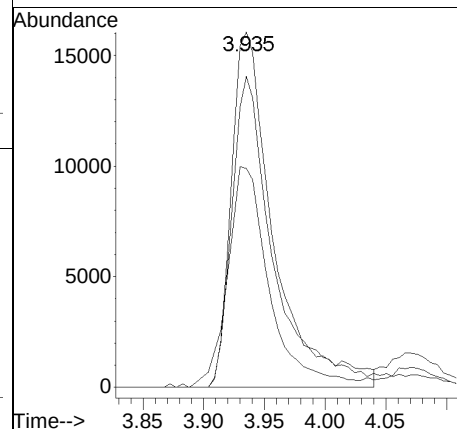
Tgt Ion	Ratio	Lower	Upper
63	100		
65	29.9	10.4	50.4
83	10.8	0.0	32.2

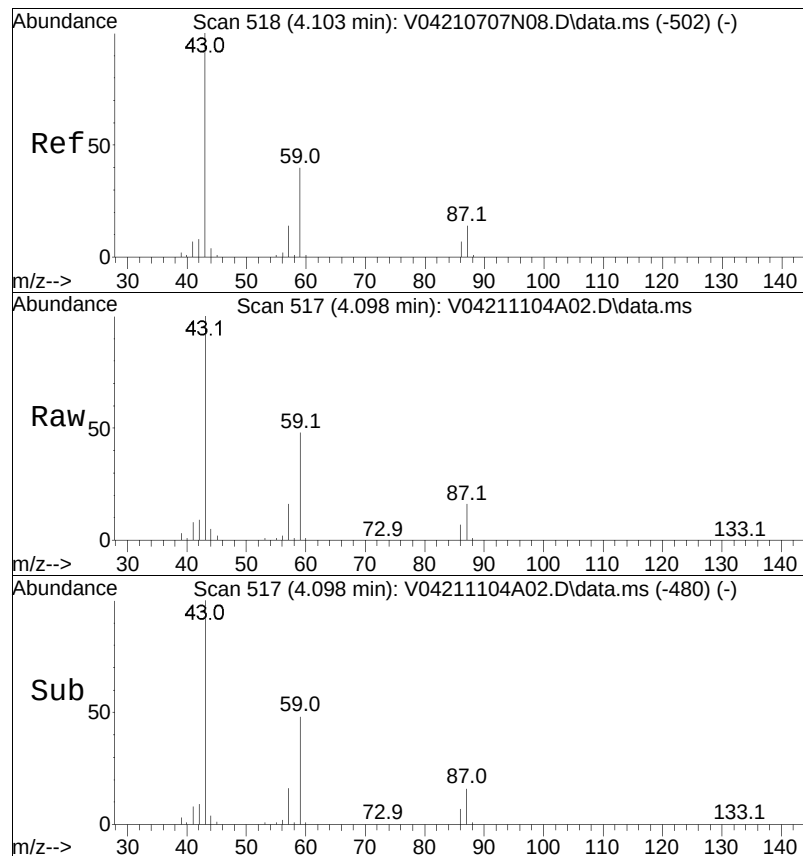




#25
 Acrylonitrile
 Concen: 32.39 ug/L
 RT: 3.935 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

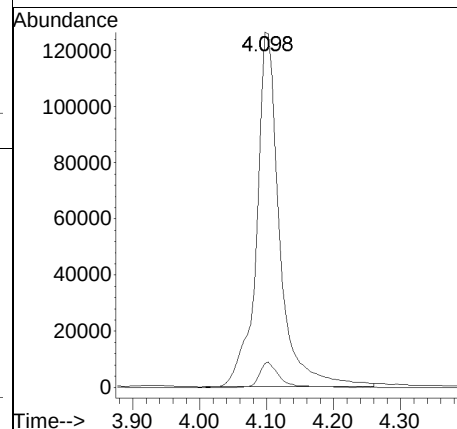
Tgt	Ion	Ratio	Lower	Upper
53	100			
52	87.4	65.9	98.9	
51	61.5	46.2	69.4	

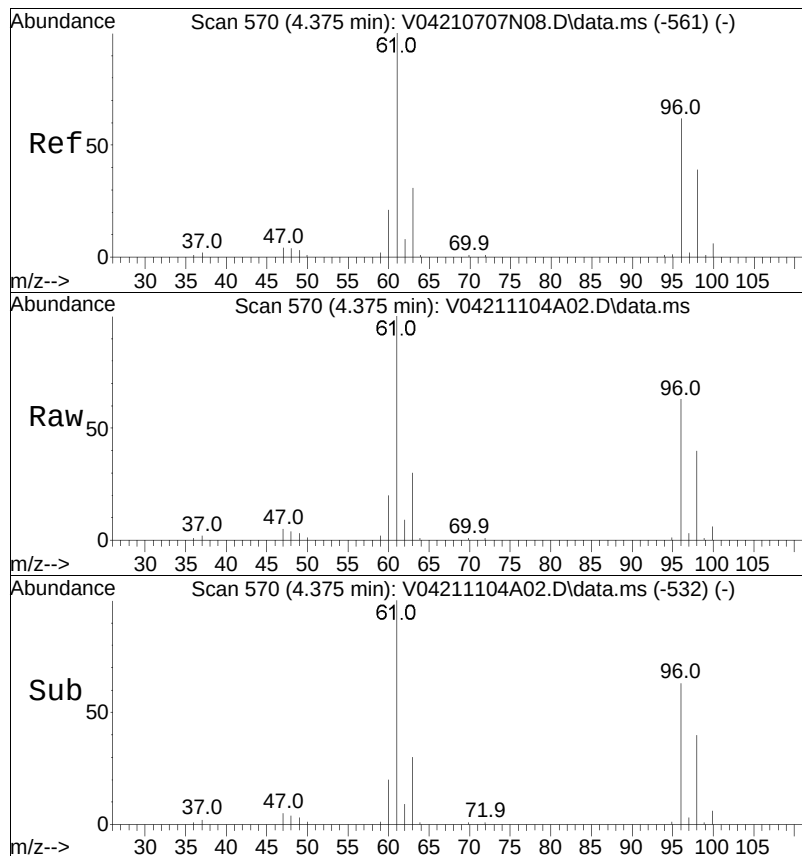




#27
 Vinyl acetate
 Concen: 37.92 ug/L
 RT: 4.098 min Scan# 517
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

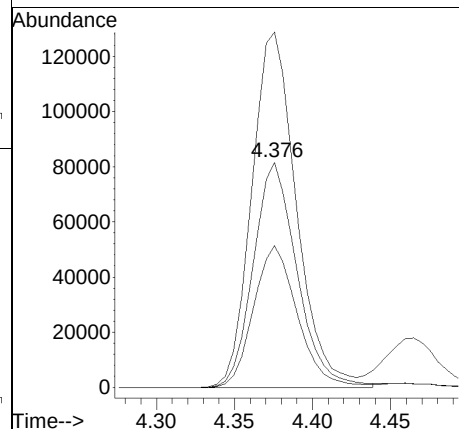
Tgt	Ion	Ratio	Lower	Upper
43	100			
86	6.0	5.4	8.2	

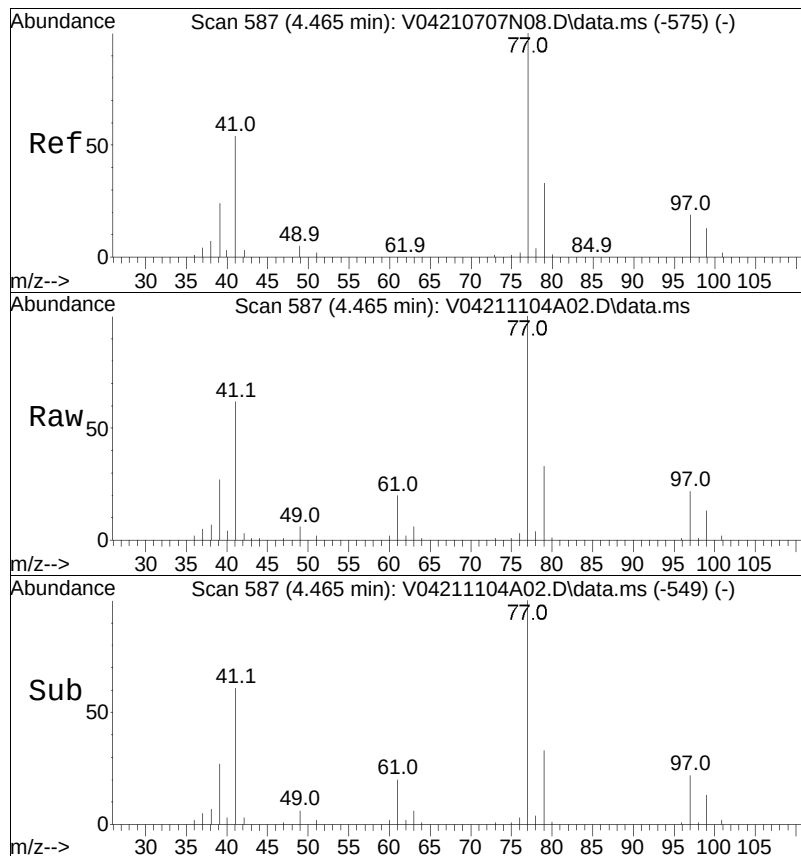




#28
 cis-1,2-Dichloroethene
 Concen: 39.37 ug/L
 RT: 4.375 min Scan# 570
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

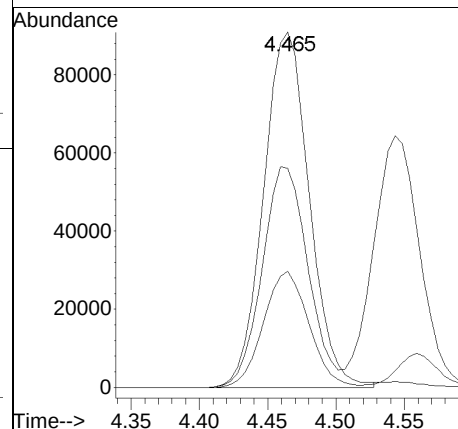
Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.0	114.4	171.6
98	63.3	51.3	76.9

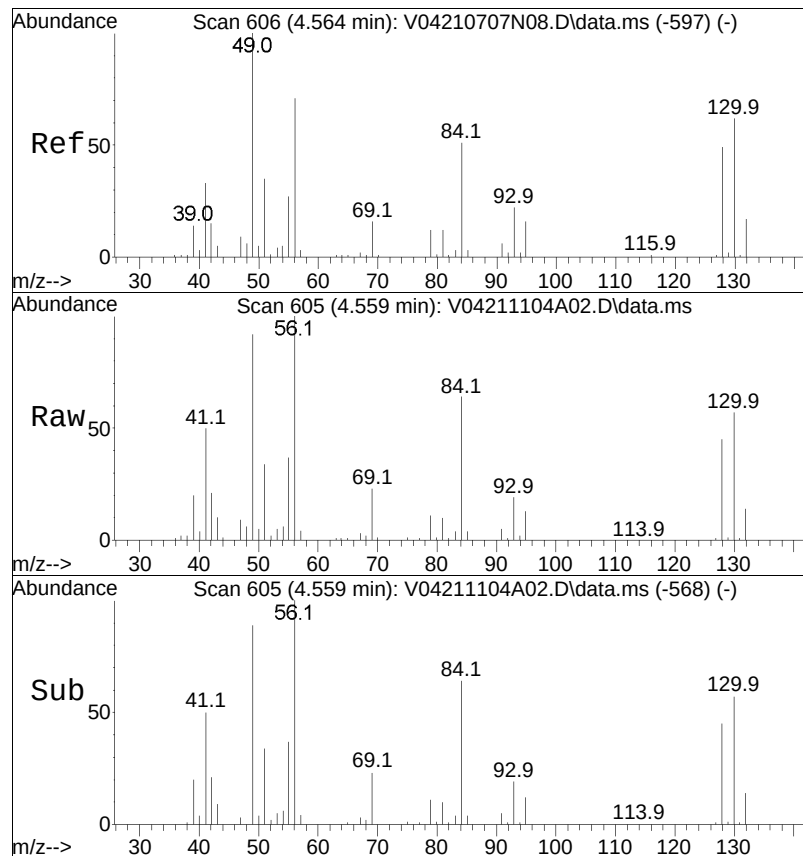




#29
 2,2-Dichloropropane
 Concen: 37.26 ug/L
 RT: 4.465 min Scan# 587
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

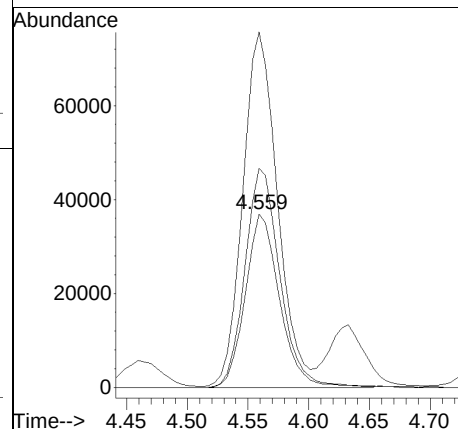
Tgt Ion	Ratio	Resp	Lower	Upper
77	100	212010		
41	61.9		36.7	76.3
79	32.4		21.1	43.9

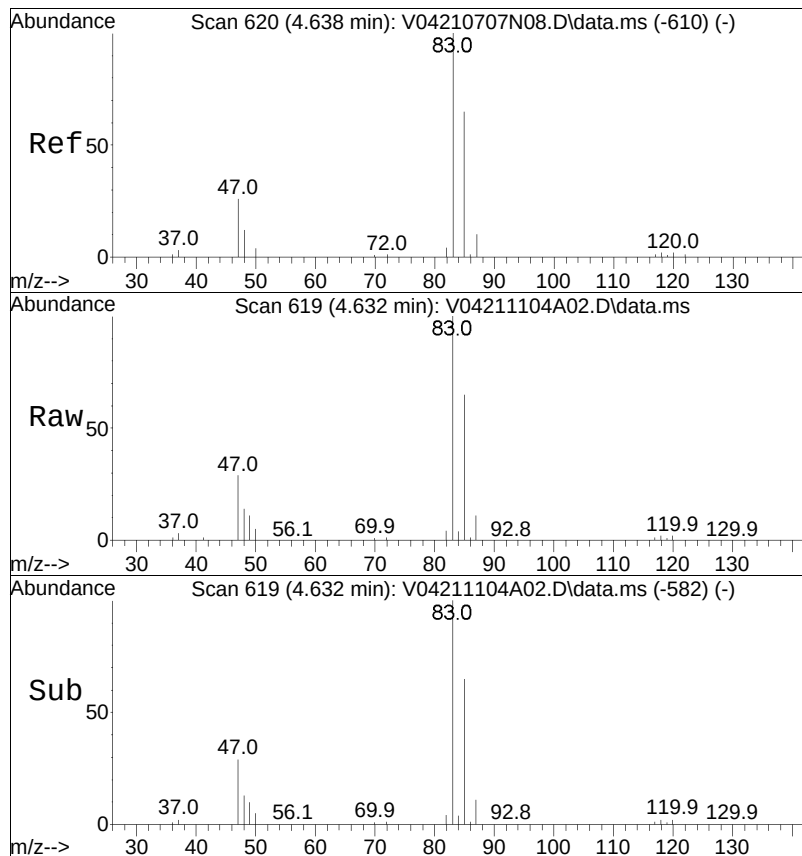




#30
 Bromochloromethane
 Concen: 39.07 ug/L
 RT: 4.559 min Scan# 605
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

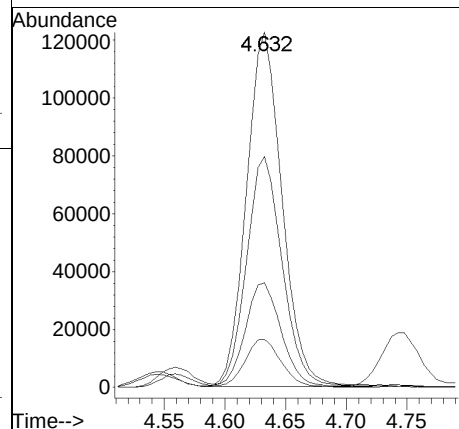
Tgt	Ion:128	Resp:	72457
Ion	Ratio	Lower	Upper
128	100		
49	205.7	136.8	205.2#
130	129.1	102.6	153.8

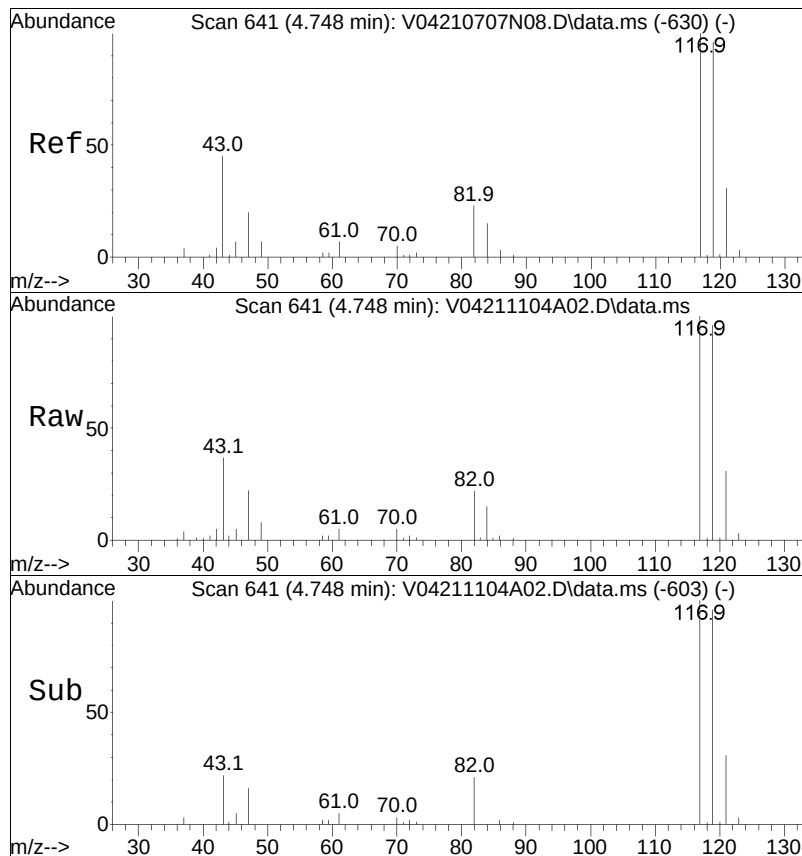




#32
 Chloroform
 Concen: 35.43 ug/L
 RT: 4.632 min Scan# 619
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt Ion:	83	Resp:	249972
Ion Ratio	Lower	Upper	
83	100		
85	65.3	41.9	87.1
47	29.1	16.7	34.7
48	13.5	7.9	16.3





#34

Carbon tetrachloride

Concen: 36.50 ug/L

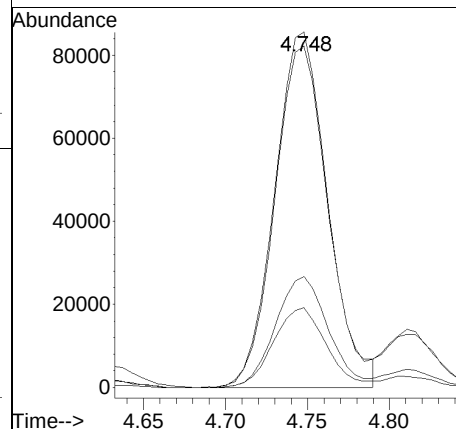
RT: 4.748 min Scan# 641

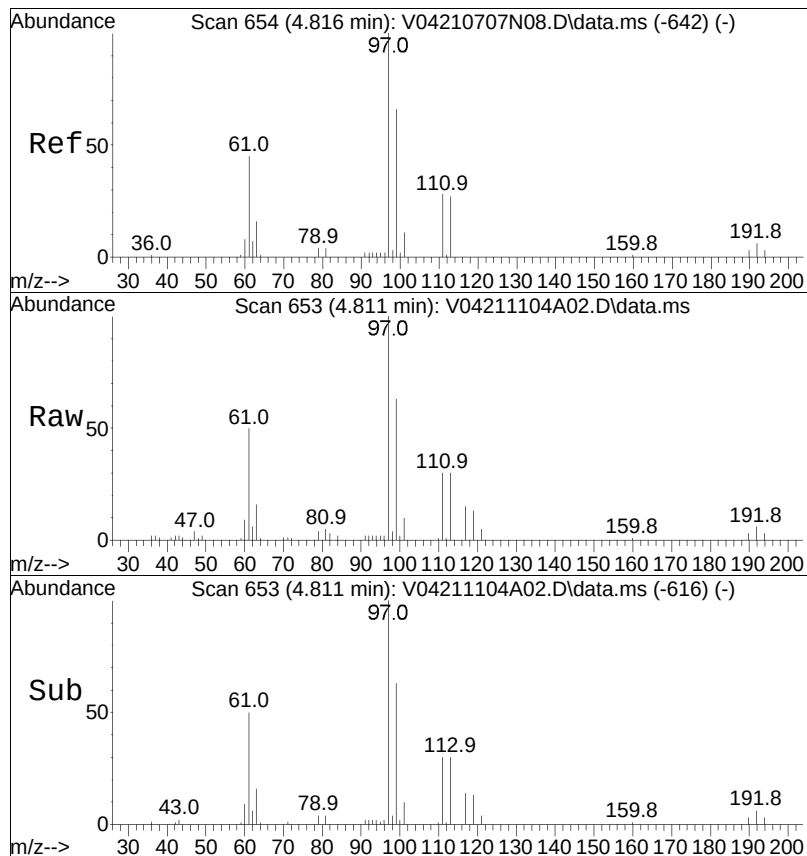
Delta R.T. -0.000 min

Lab File: V04211104A02.D

Acq: 4 Nov 2021 7:06 am

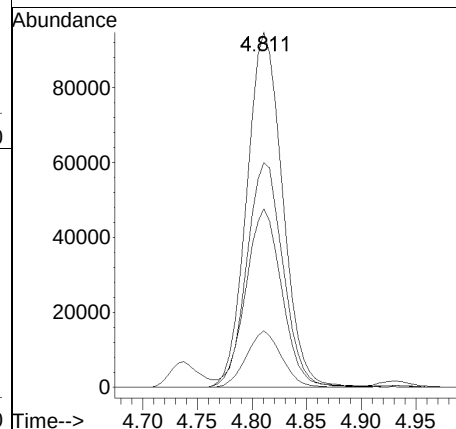
Tgt	Ion:117	Resp:	192150
Ion	Ratio	Lower	Upper
117	100		
119	95.5	62.9	130.7
121	30.9	20.2	42.0
82	22.3	14.9	30.9

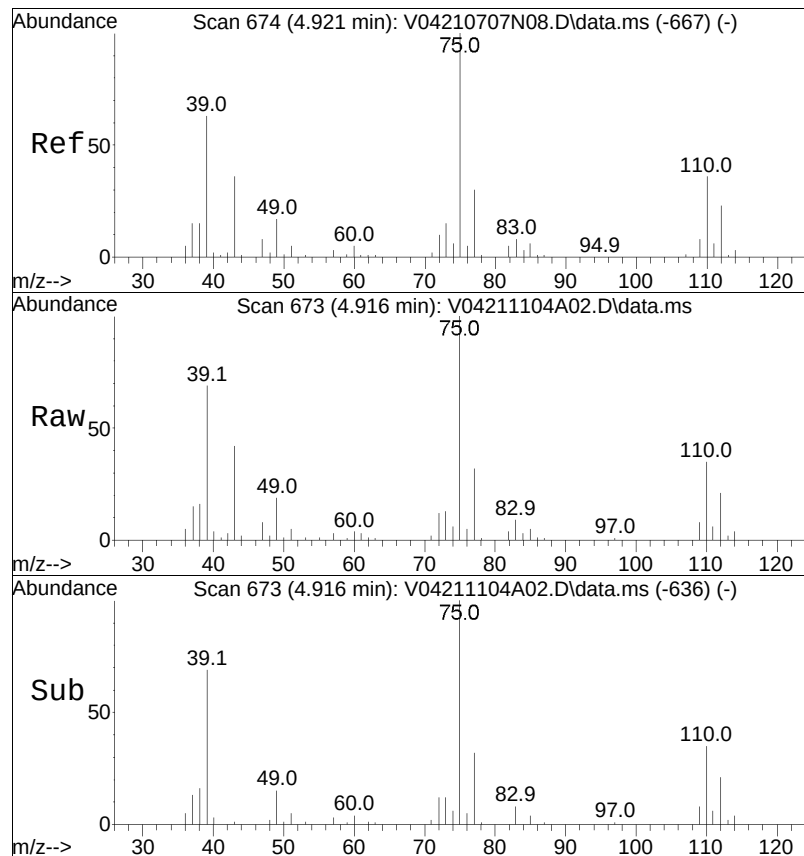




#37
 1,1,1-Trichloroethane
 Concen: 38.78 ug/L
 RT: 4.811 min Scan# 653
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

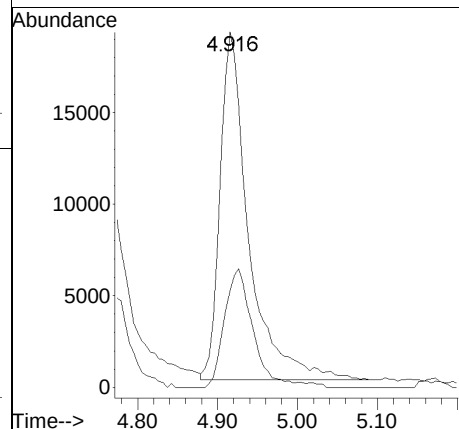
Tgt Ion:	97	Resp:	216877
Ion Ratio	Lower	Upper	
97	100		
99	64.2	41.7	86.7
61	50.7	30.9	64.3
63	15.6	9.6	20.0

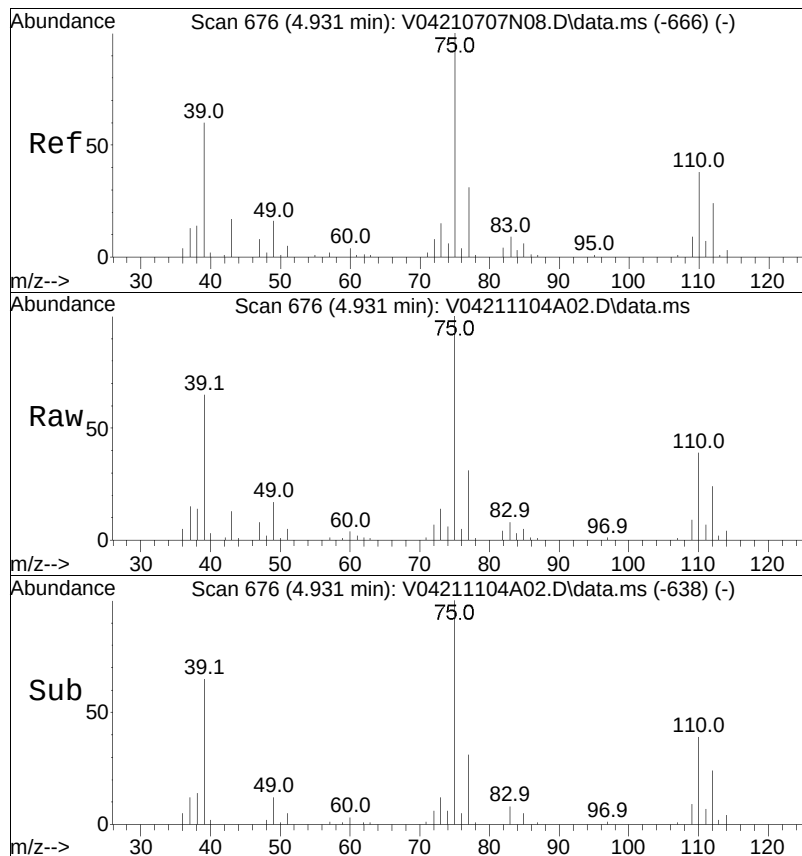




#39
 2-Butanone
 Concen: 33.13 ug/L
 RT: 4.916 min Scan# 673
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

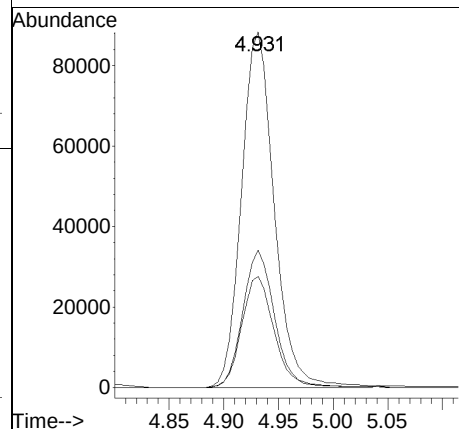
Tgt	Ion	Ratio	Lower	Upper
43	100			
72	34.4	25.8	38.8	

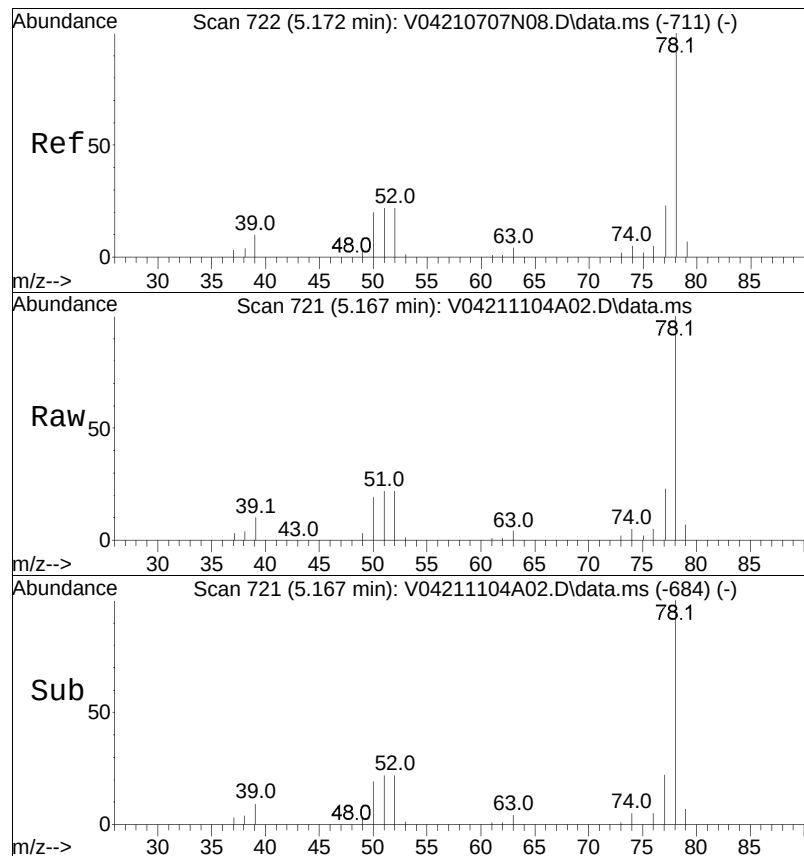




#40
 1,1-Dichloropropene
 Concen: 40.46 ug/L
 RT: 4.931 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

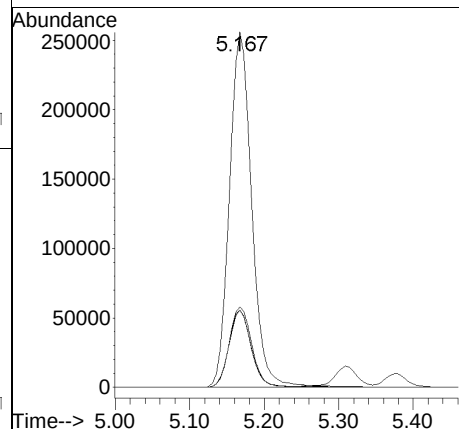
Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.4	24.4	50.6
77	31.1	20.0	41.6

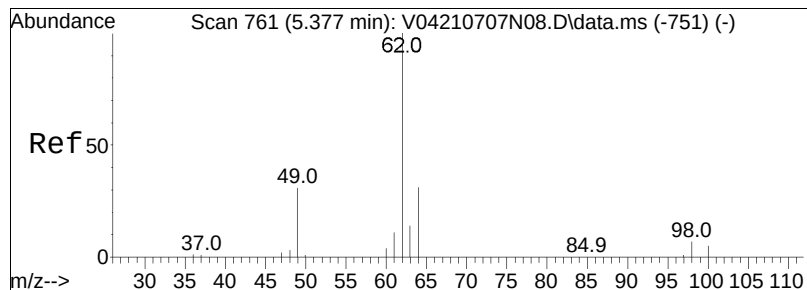




#41
Benzene
Concen: 39.86 ug/L
RT: 5.167 min Scan# 721
Delta R.T. -0.005 min
Lab File: V04211104A02.D
Acq: 4 Nov 2021 7:06 am

Tgt	Ion: 78	Resp:	533067
Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.1	31.3
51	21.5	12.2	25.4
52	21.8	11.9	24.7





#44

1,2-Dichloroethane

Concen: 35.59 ug/L

RT: 5.377 min Scan# 761

Delta R.T. -0.000 min

Lab File: V04211104A02.D

Acq: 4 Nov 2021 7:06 am

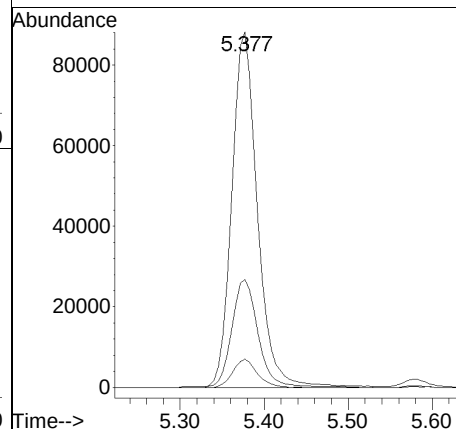
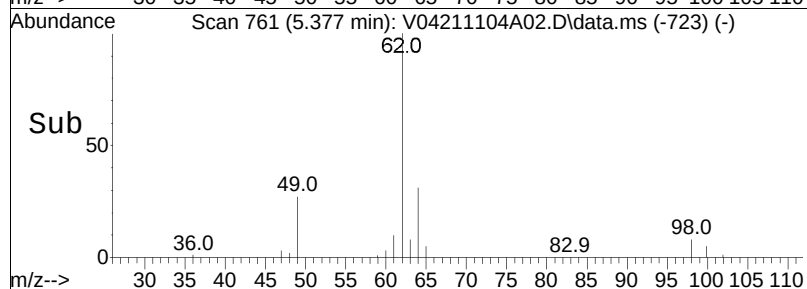
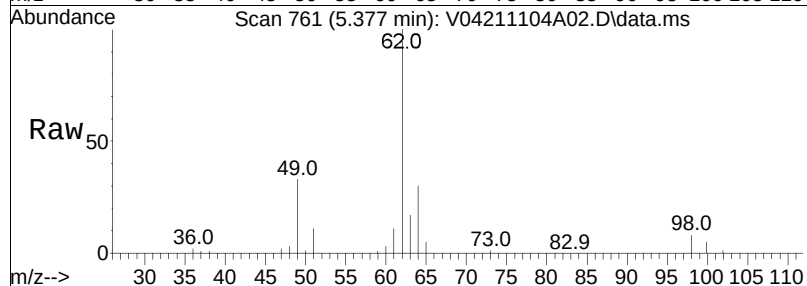
Tgt Ion: 62 Resp: 186944

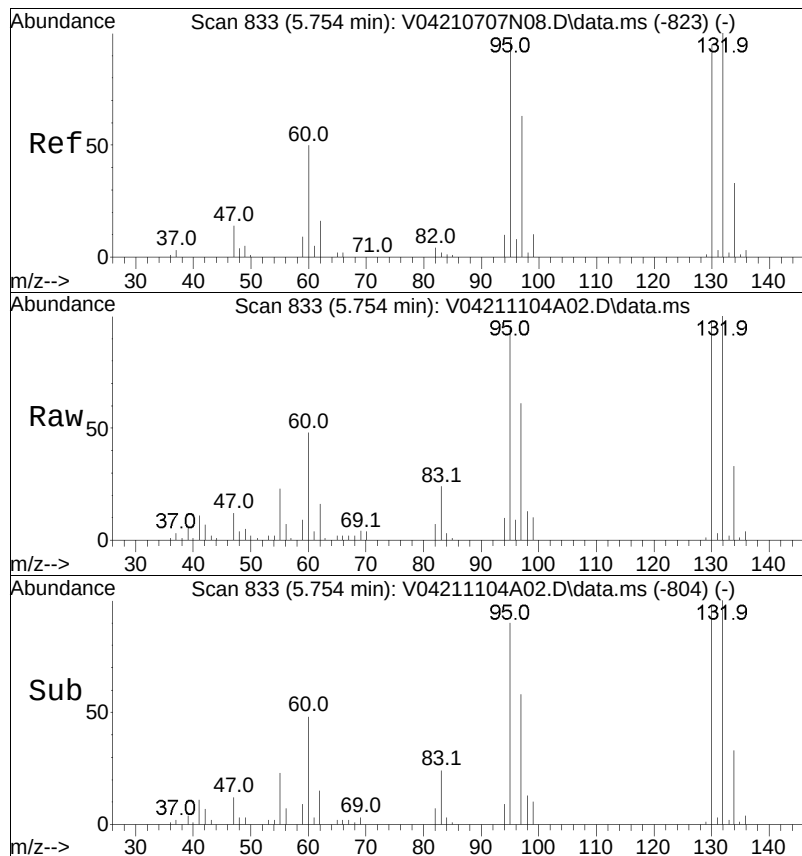
Ion Ratio Lower Upper

62 100

64 31.1 11.3 51.3

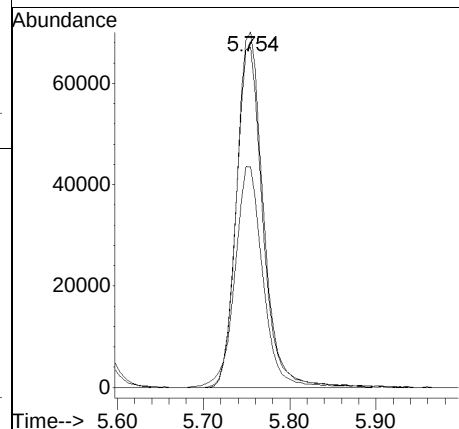
98 7.6 0.0 27.5

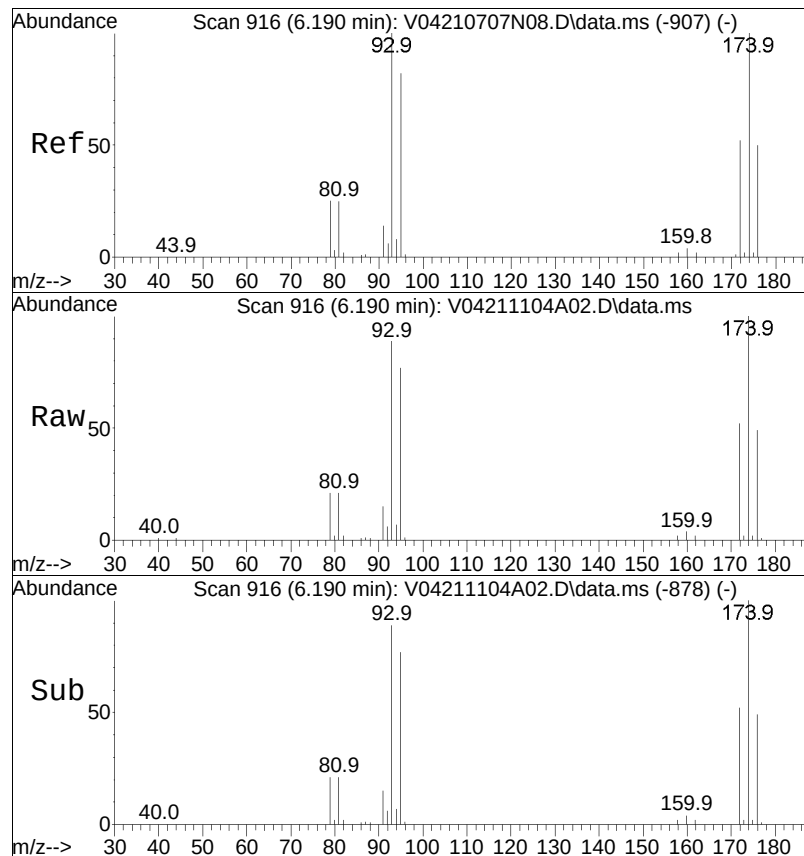




#48
 Trichloroethene
 Concen: 39.17 ug/L
 RT: 5.754 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

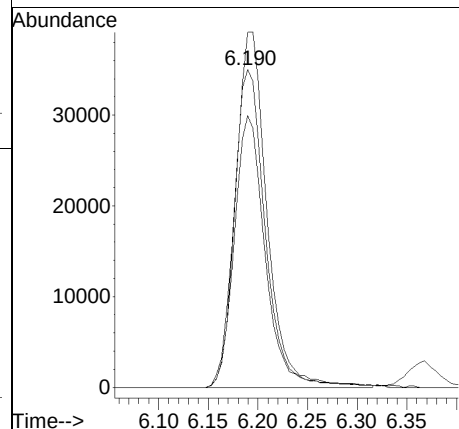
Tgt Ion:	95	Resp:	144167
Ion Ratio	Lower	Upper	
95	100		
97	68.3	53.9	80.9
130	104.1	83.1	124.7

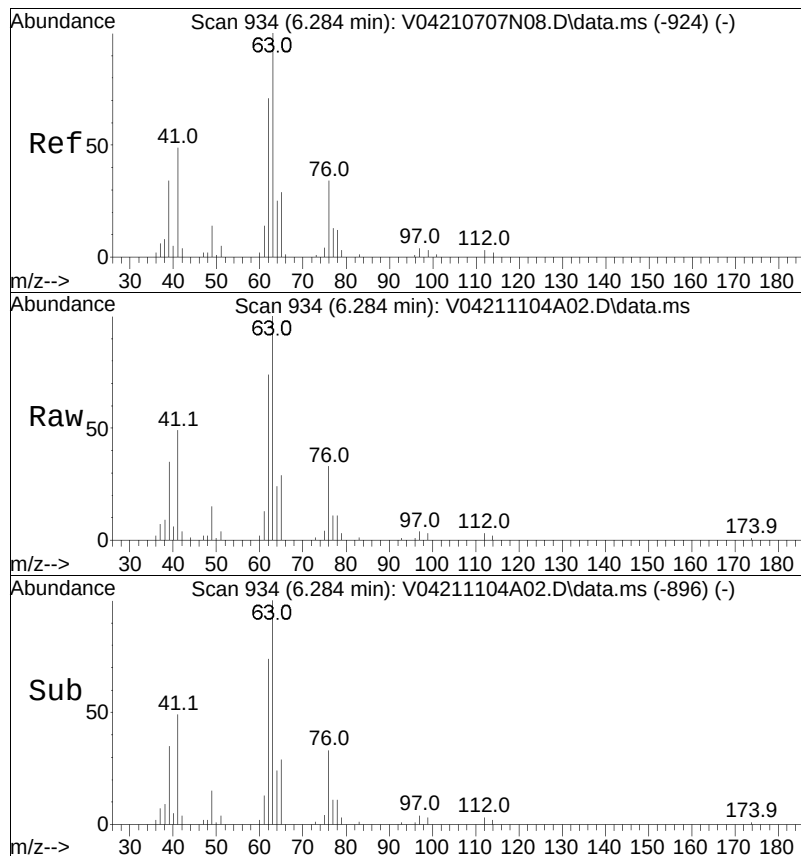




#50
 Dibromomethane
 Concen: 35.98 ug/L
 RT: 6.190 min Scan# 916
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

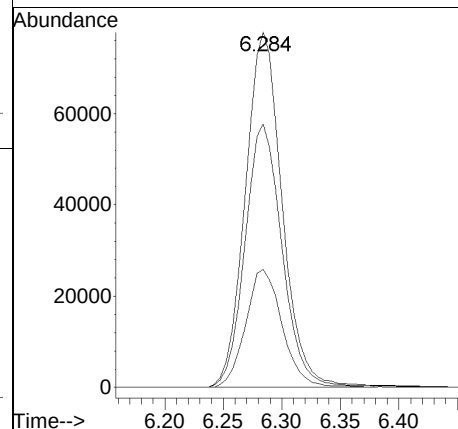
Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.8	66.3	99.5
174	111.3	87.4	131.0

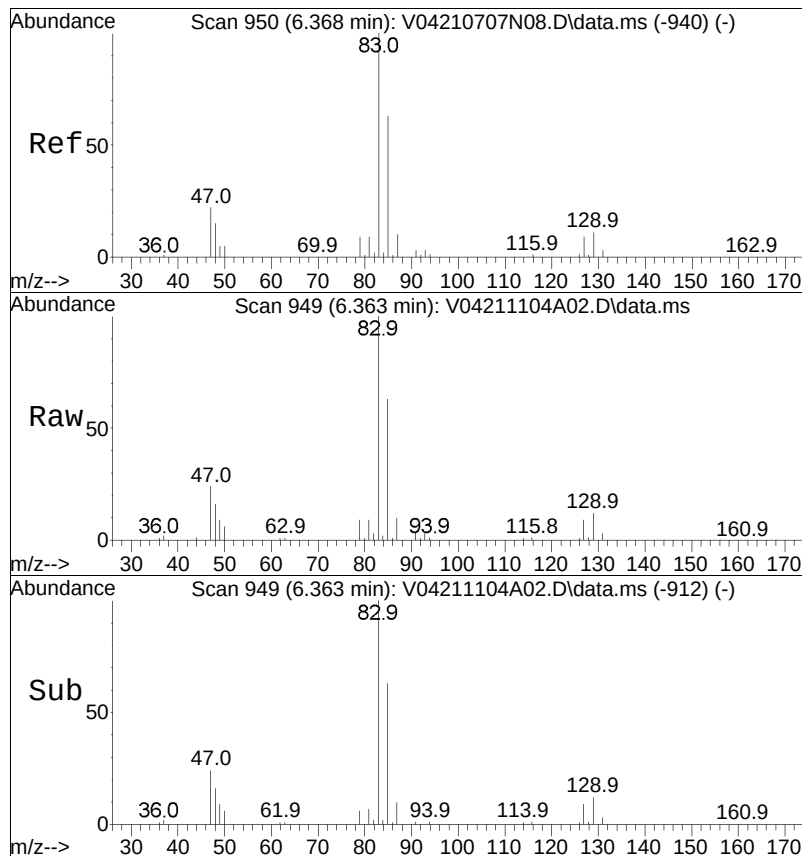




#51
 1,2-Dichloropropane
 Concen: 38.33 ug/L
 RT: 6.284 min Scan# 934
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

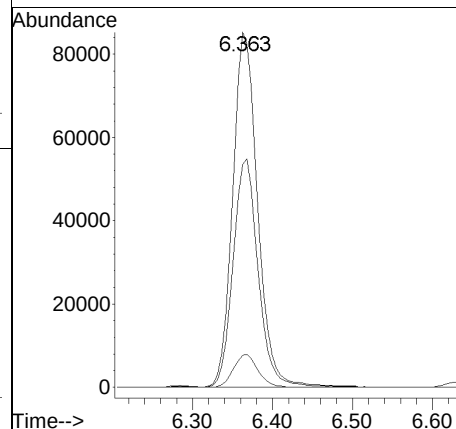
Tgt	Ion	Resp	Lower	Upper
63	100			
62	75.0		58.2	87.2
76	33.1		31.4	47.2

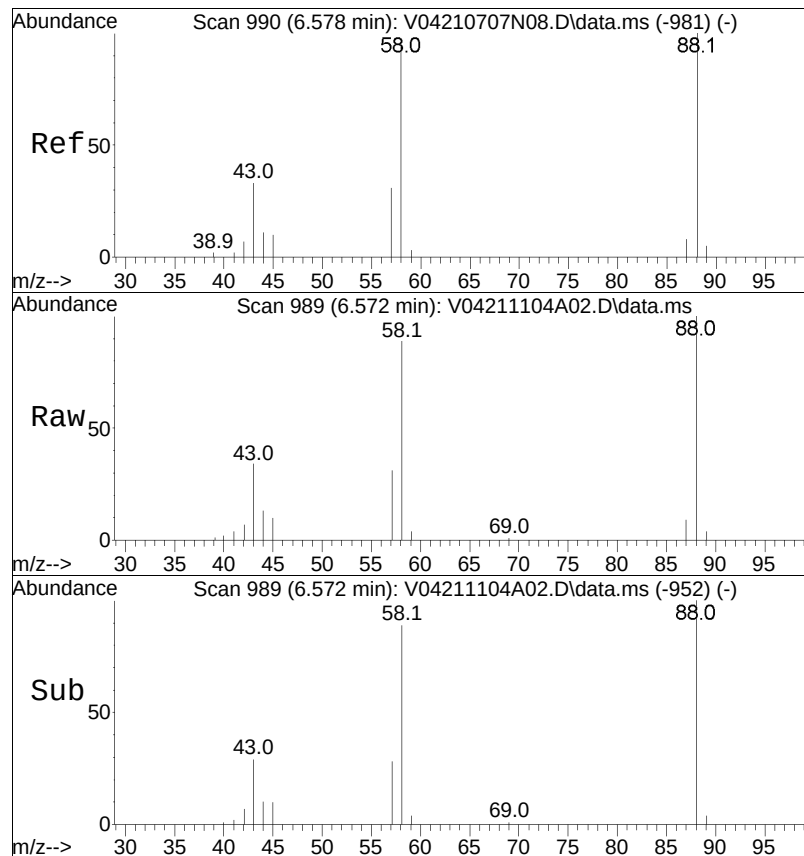




#54
 Bromodichloromethane
 Concen: 36.66 ug/L
 RT: 6.363 min Scan# 949
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

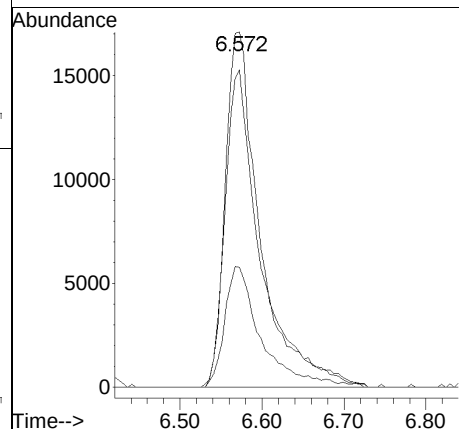
Tgt Ion:	83	Resp:	185715
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.2	76.8
127	9.1	7.3	10.9

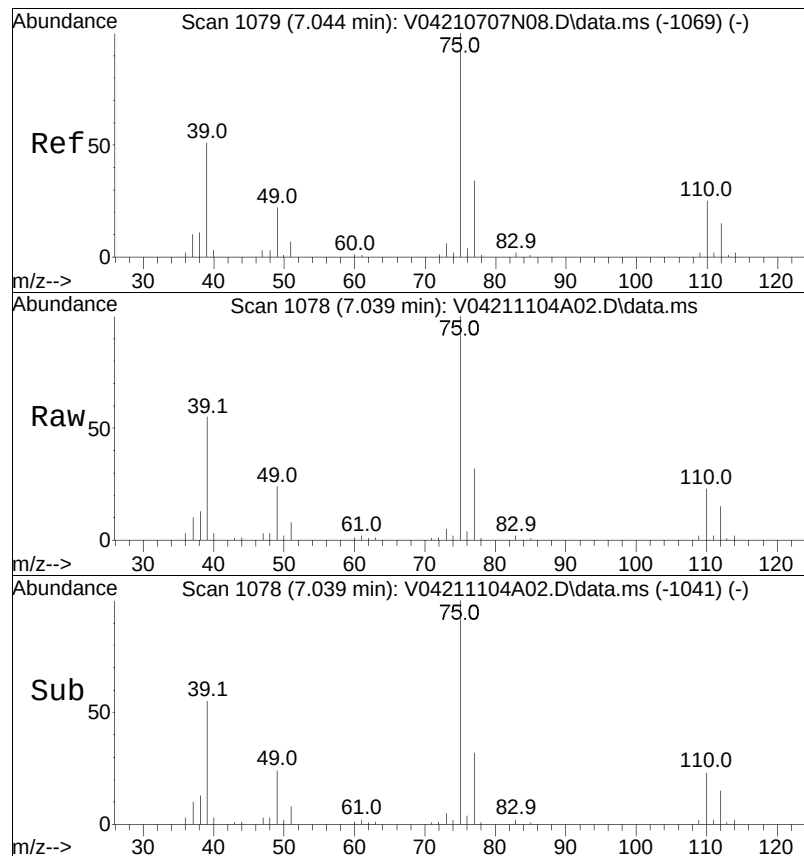




#57
 1,4-Dioxane
 Concen: 1770.19 ug/L
 RT: 6.572 min Scan# 989
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

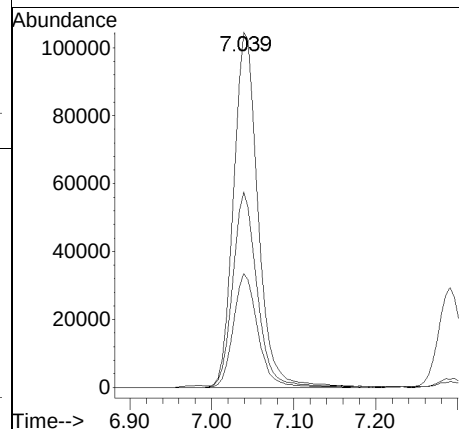
Tgt	Ion: 88	Resp:	51509
Ion	Ratio	Lower	Upper
88	100		
58	89.0	57.1	85.7#
43	35.4	22.9	34.3#

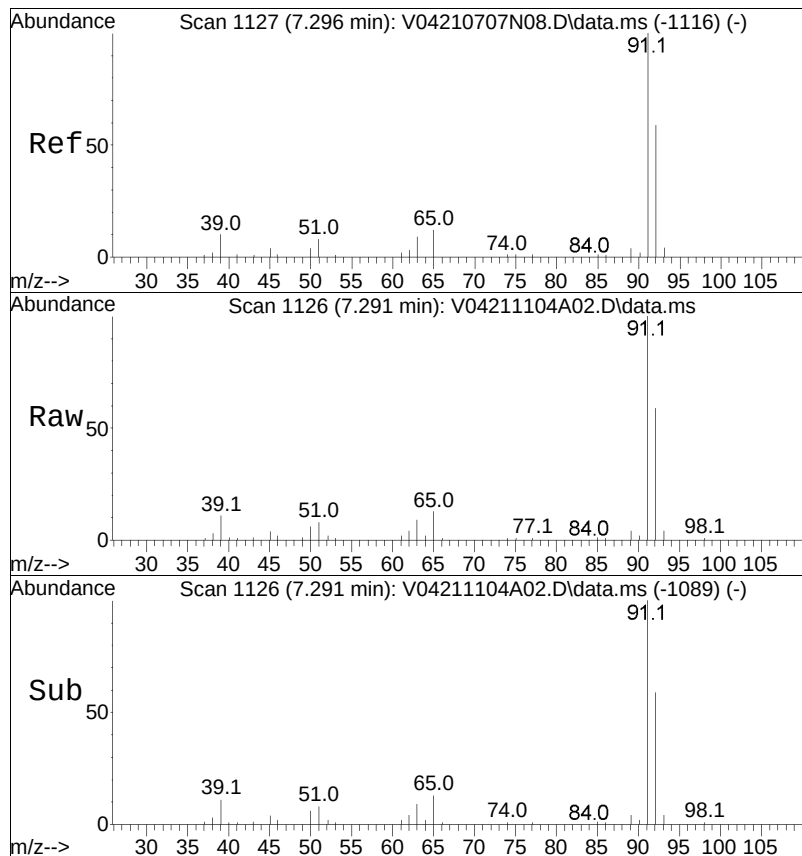




#58
 cis-1,3-Dichloropropene
 Concen: 39.79 ug/L
 RT: 7.039 min Scan# 1078
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

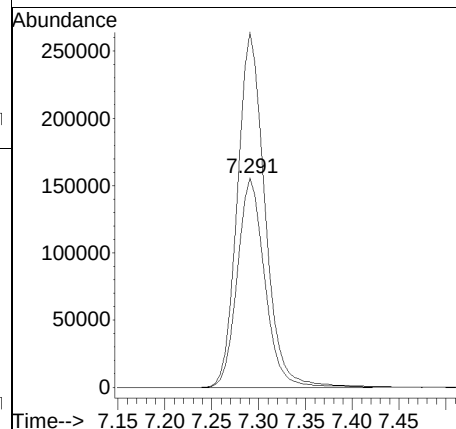
Tgt Ion:	75	Resp:	217330
Ion Ratio	Lower	Upper	
75	100		
77	31.9	25.3	37.9
39	54.1	40.2	60.2

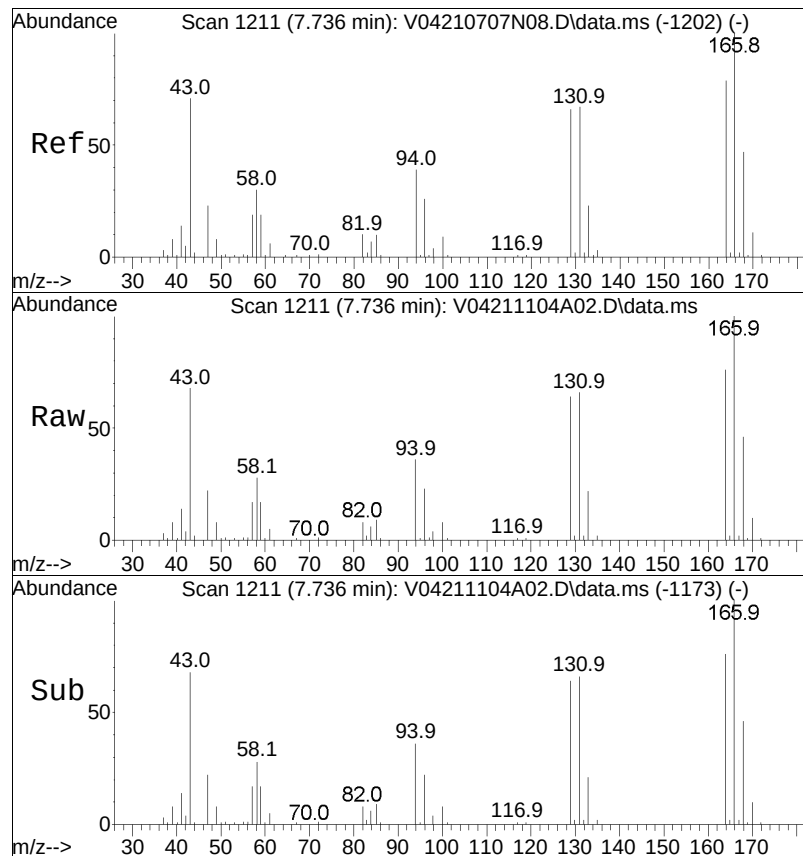




#61
 Toluene
 Concen: 40.51 ug/L
 RT: 7.291 min Scan# 1126
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

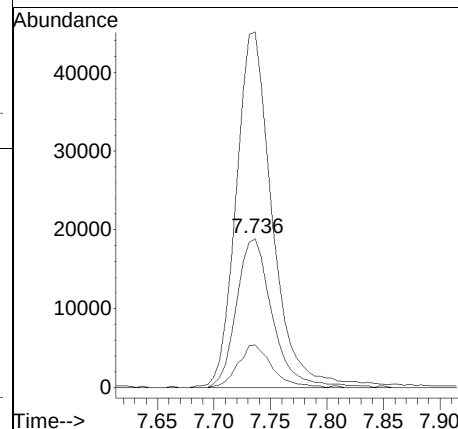
Tgt Ion	Ratio	Lower	Upper
92	100		
91	170.0	135.8	203.6

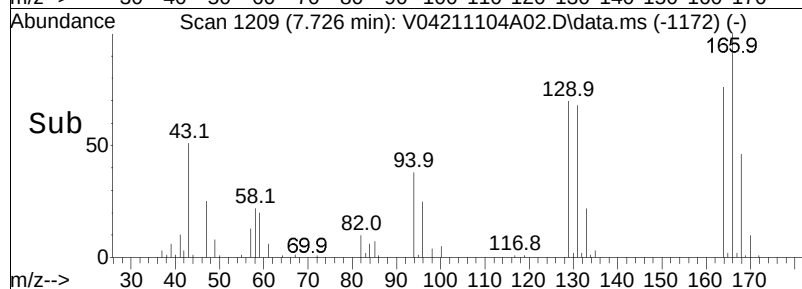
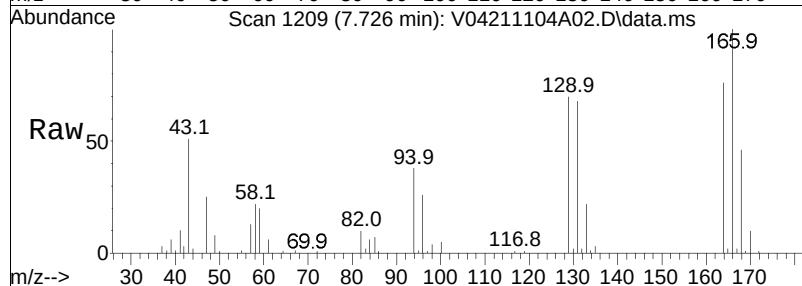
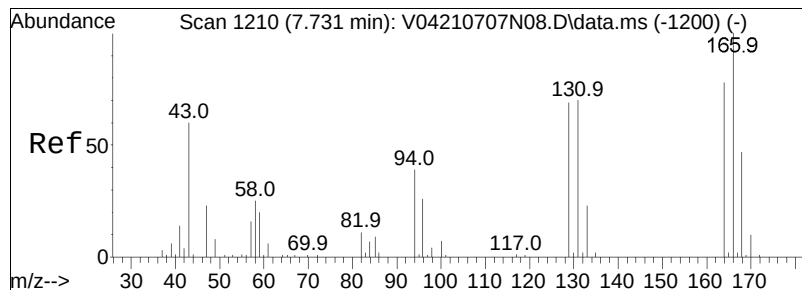




#62
 4-Methyl-2-pentanone
 Concen: 36.25 ug/L
 RT: 7.736 min Scan# 1211
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt	Ion	Resp	Lower	Upper
58	100	41754		
100	27.0		25.6	38.4
43	243.6		195.7	293.5





#63

Tetrachloroethene

Concen: 42.58 ug/L

RT: 7.726 min Scan# 1209

Delta R.T. -0.005 min

Lab File: V04211104A02.D

Acq: 4 Nov 2021 7:06 am

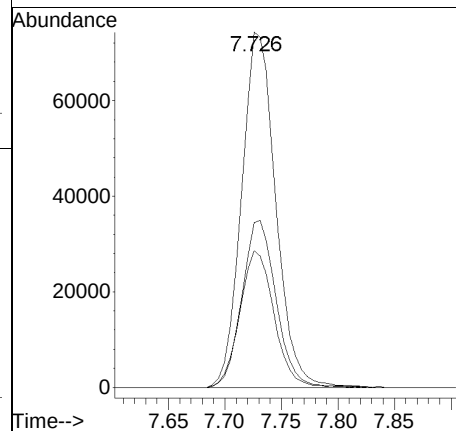
Tgt Ion:166 Resp: 156259

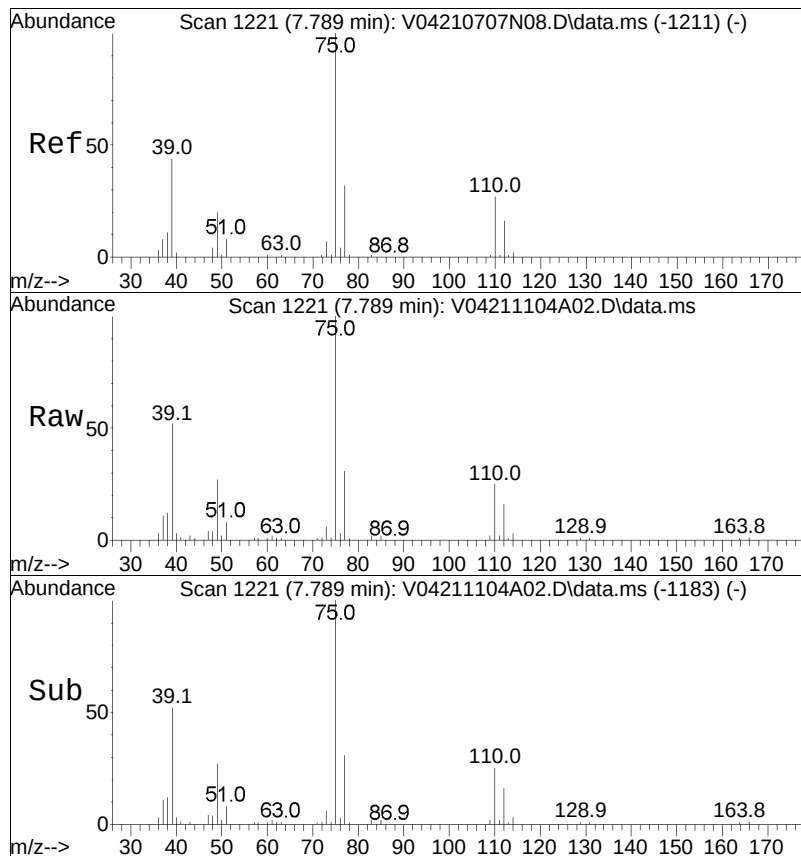
Ion Ratio Lower Upper

166 100

168 46.9 27.6 67.6

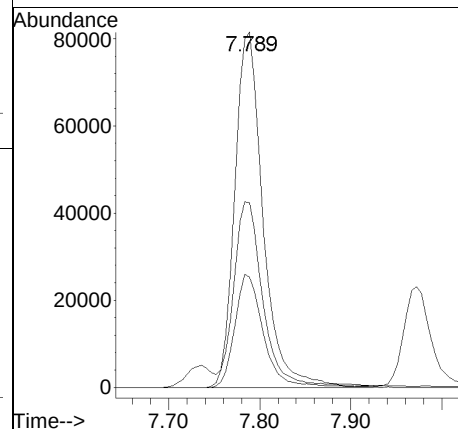
94 38.5 20.9 60.9

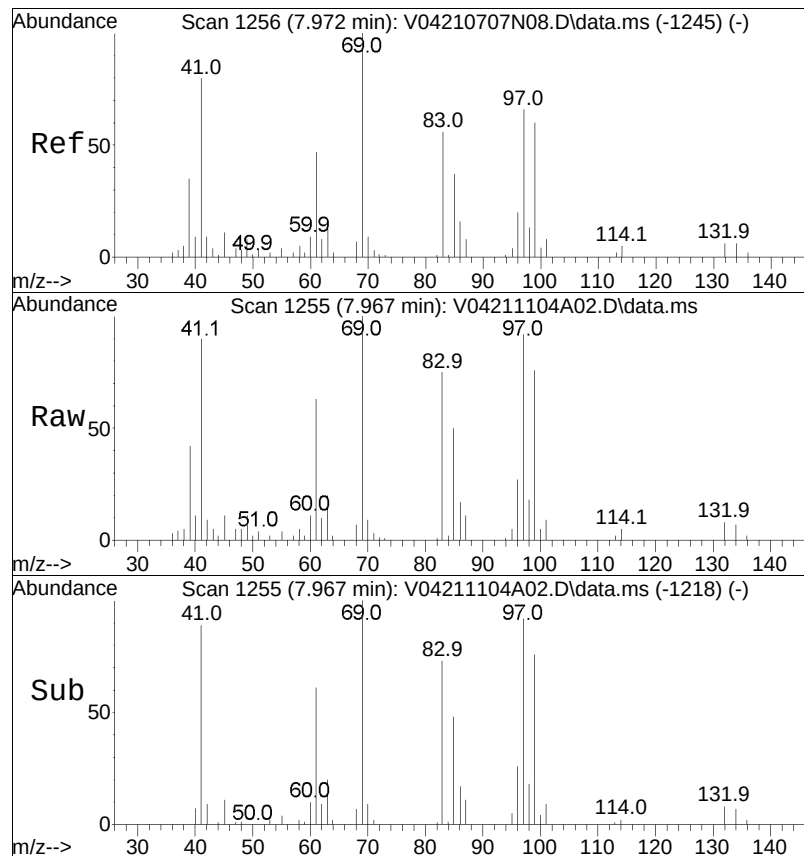




#65
 trans-1,3-Dichloropropene
 Concen: 40.09 ug/L
 RT: 7.789 min Scan# 1221
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

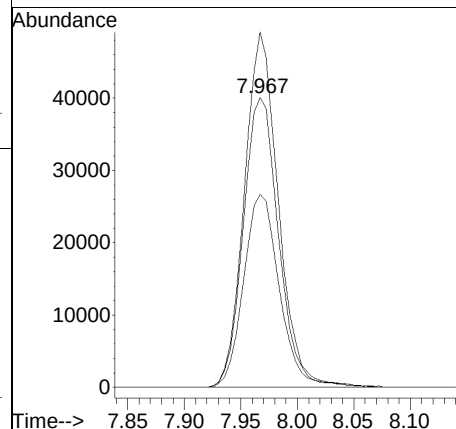
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.0	12.0	52.0
39	52.8	29.3	69.3

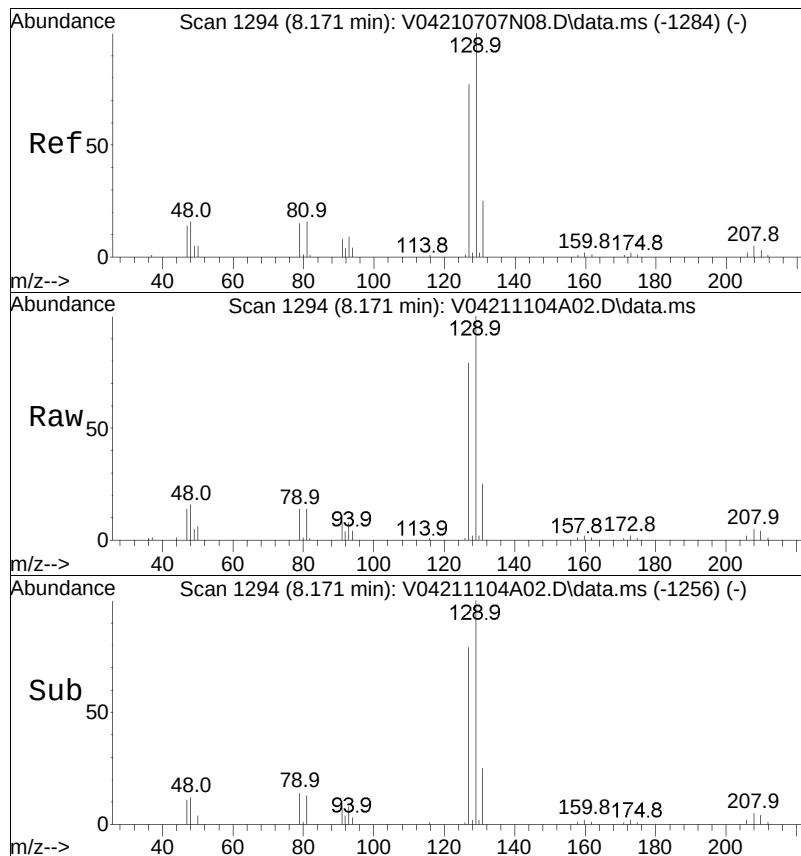




#68
 1,1,2-Trichloroethane
 Concen: 39.88 ug/L
 RT: 7.967 min Scan# 1255
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

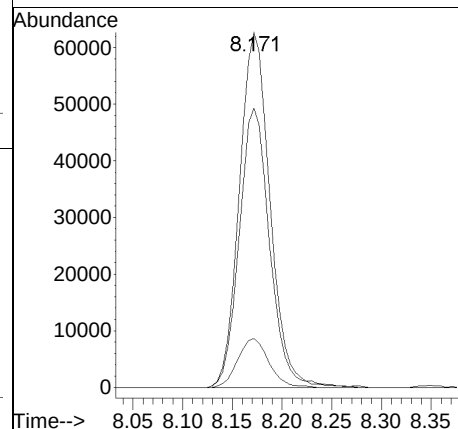
Tgt Ion:	83	Resp:	87258
Ion Ratio	Lower	Upper	
83	100		
97	117.9	99.3	139.3
85	67.9	47.8	87.8

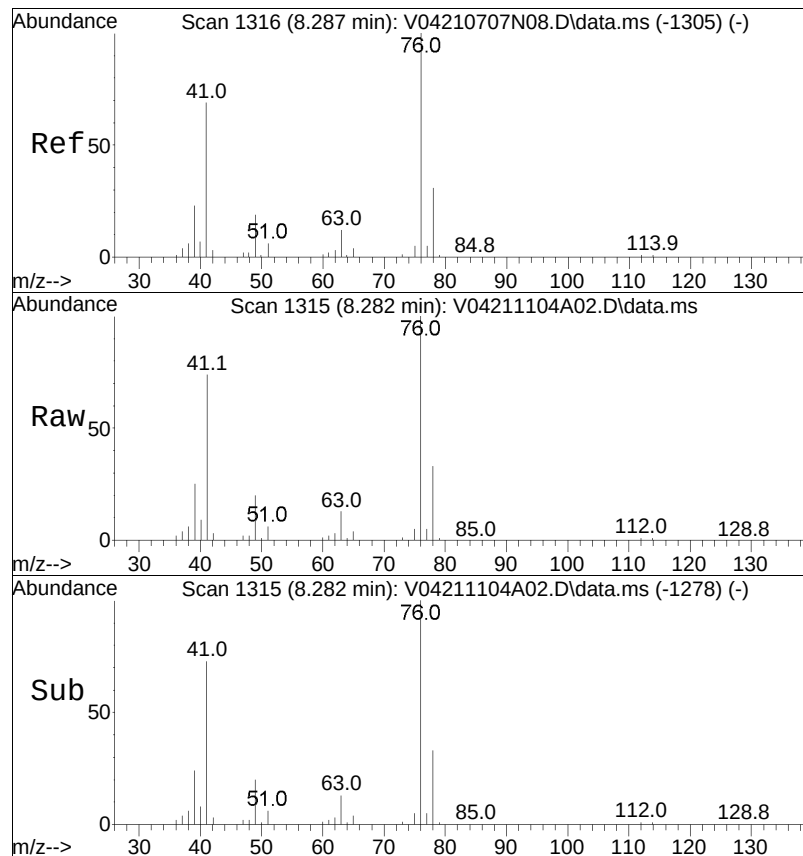




#69
 Chlorodibromomethane
 Concen: 41.45 ug/L
 RT: 8.171 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

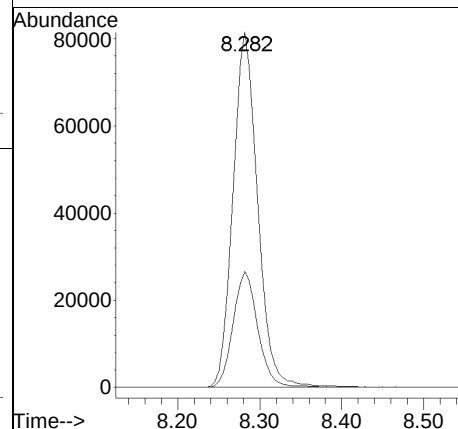
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	134760		
81	13.9		0.0	34.6
127	77.8		56.9	96.9

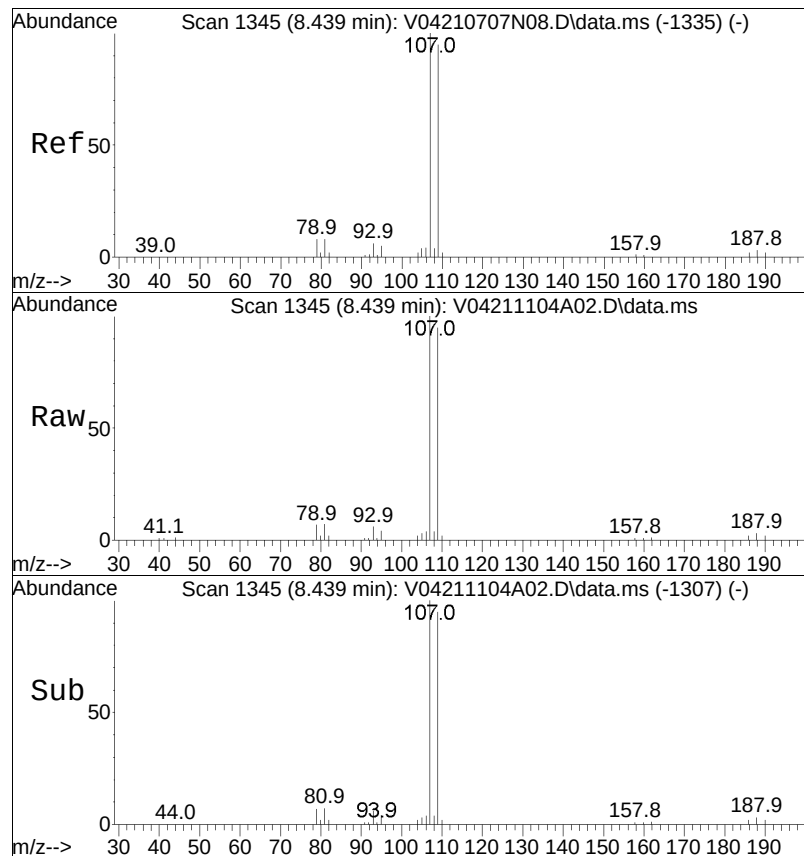




#70
 1,3-Dichloropropane
 Concen: 39.65 ug/L
 RT: 8.282 min Scan# 1315
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

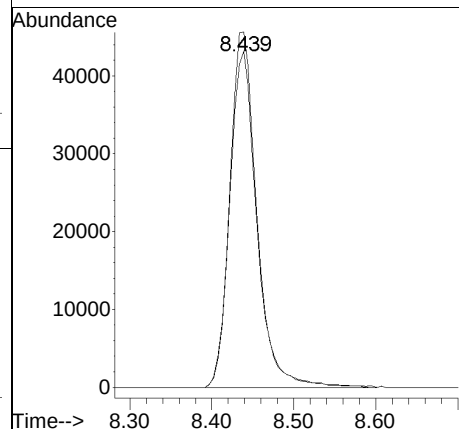
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8

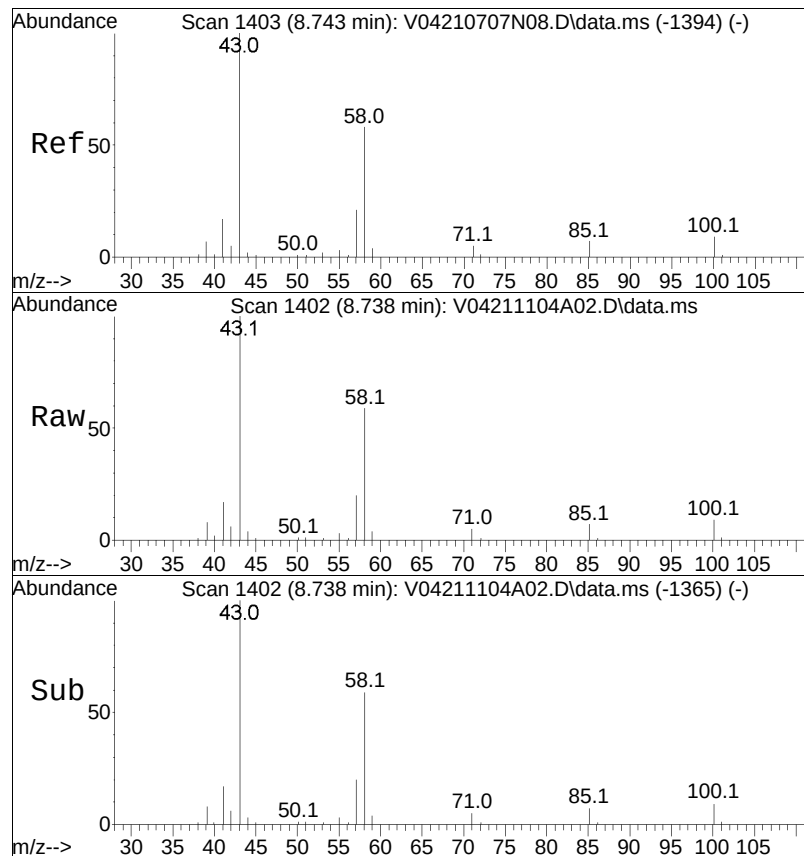




#71
 1,2-Dibromoethane
 Concen: 35.80 ug/L
 RT: 8.439 min Scan# 1345
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

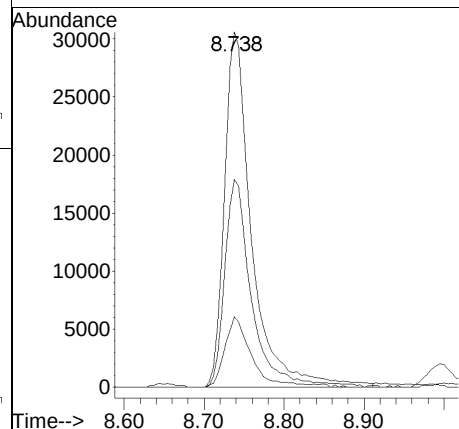
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.4	113.0

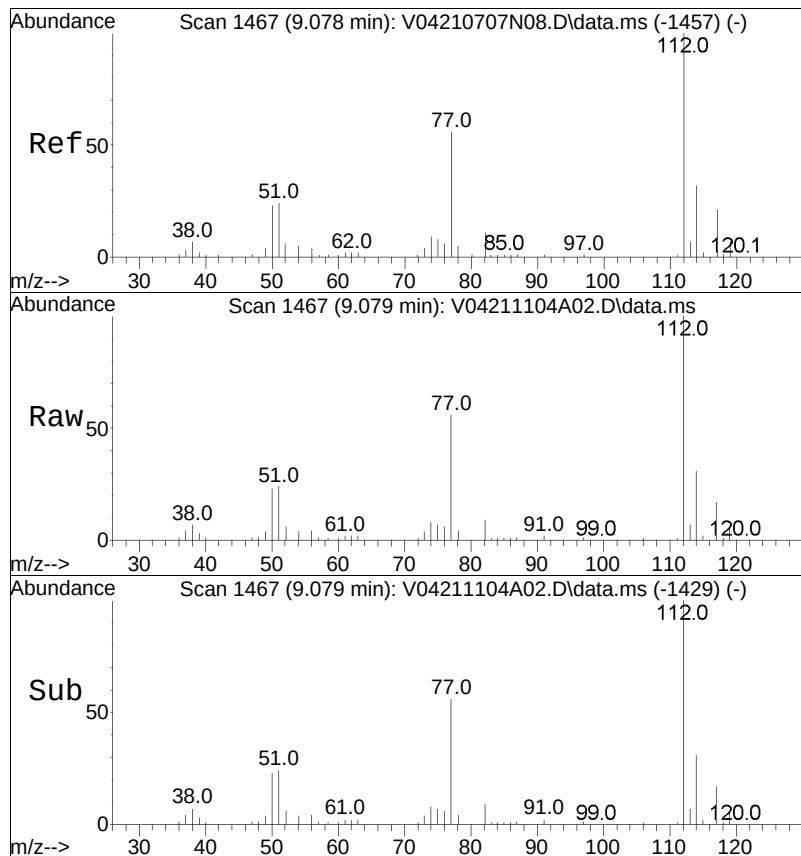




#72
 2-Hexanone
 Concen: 33.03 ug/L
 RT: 8.738 min Scan# 1402
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

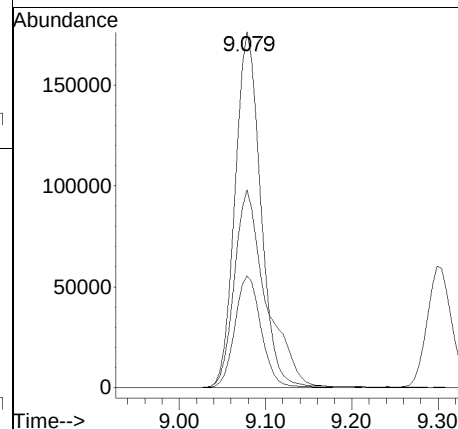
Tgt Ion:	43	Resp:	72765
Ion Ratio	Lower	Upper	
43	100		
58	57.8	44.7	67.1
57	19.3	15.4	23.0

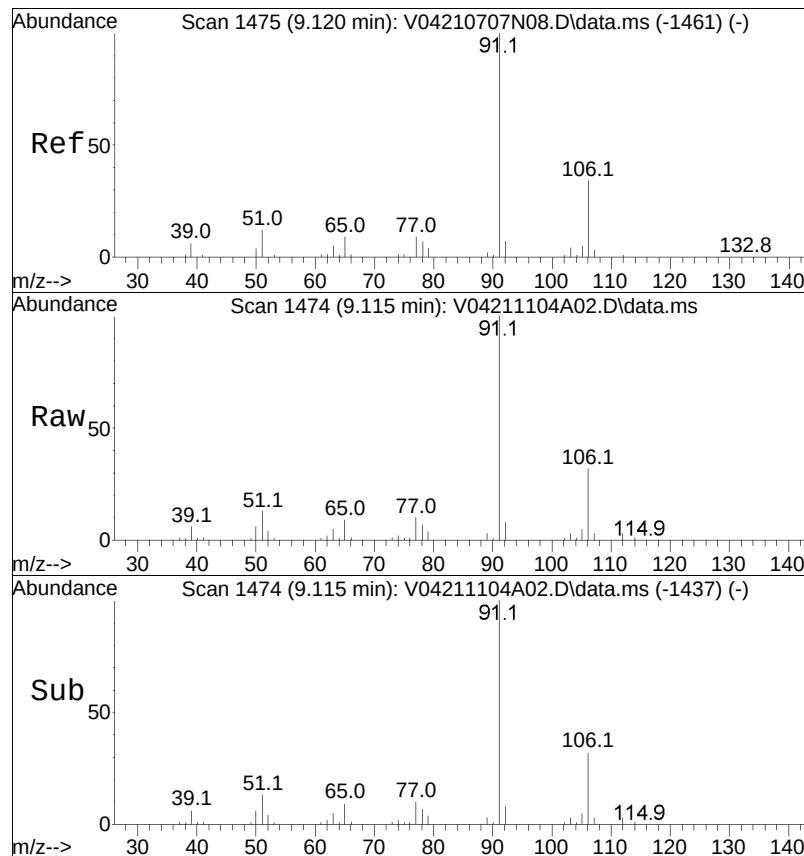




#73
 Chlorobenzene
 Concen: 40.41 ug/L
 RT: 9.079 min Scan# 1467
 Delta R.T. 0.001 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

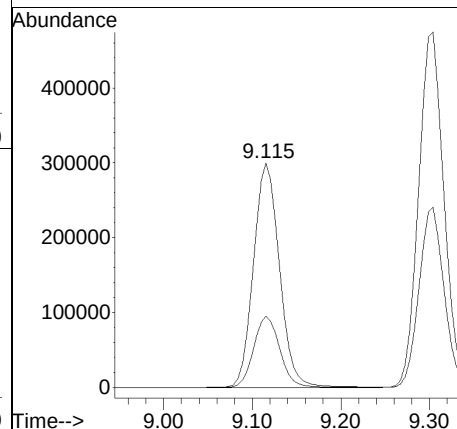
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		364900		
77	69.4	55.3		82.9	
114	32.0	25.5		38.3	

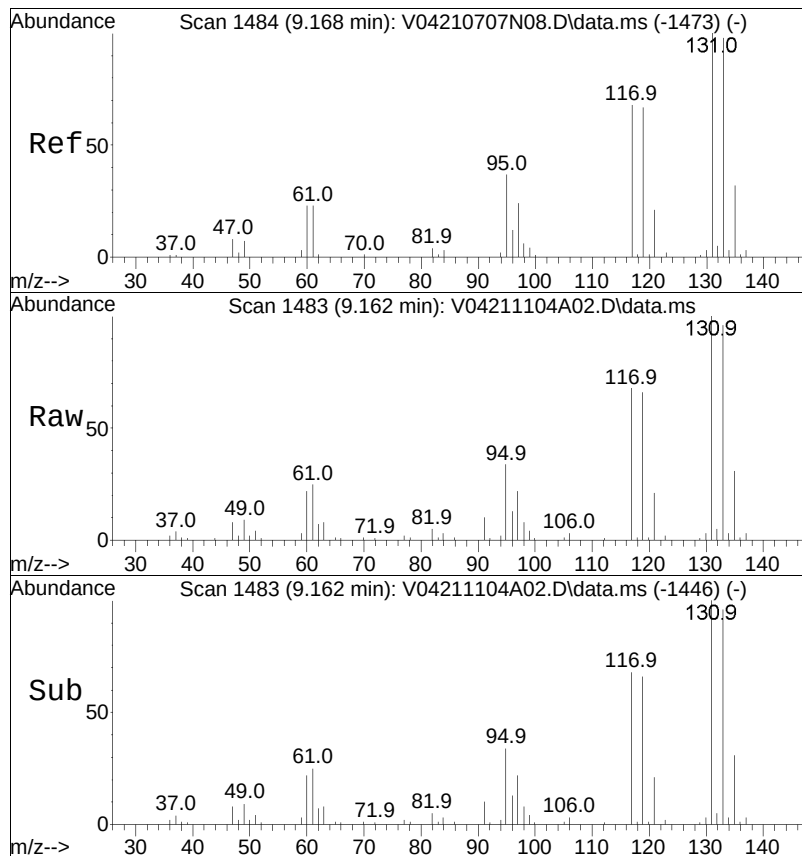




#74
 Ethylbenzene
 Concen: 39.99 ug/L
 RT: 9.115 min Scan# 1474
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

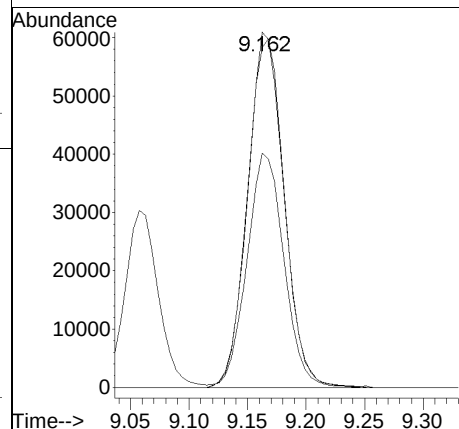
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.2

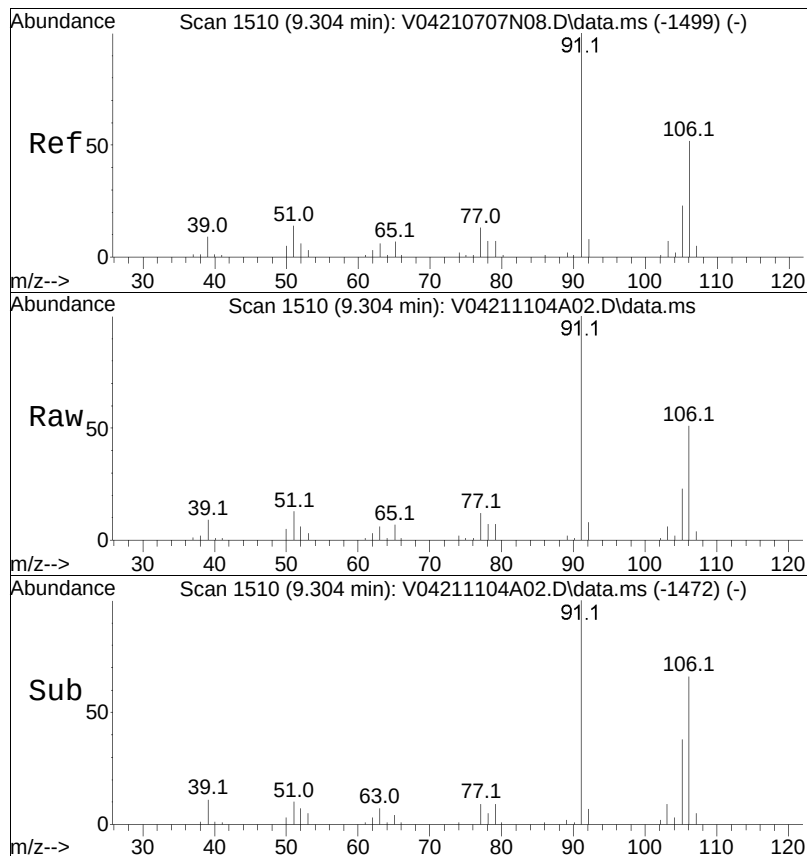




#75
 1,1,1,2-Tetrachloroethane
 Concen: 40.24 ug/L
 RT: 9.162 min Scan# 1483
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

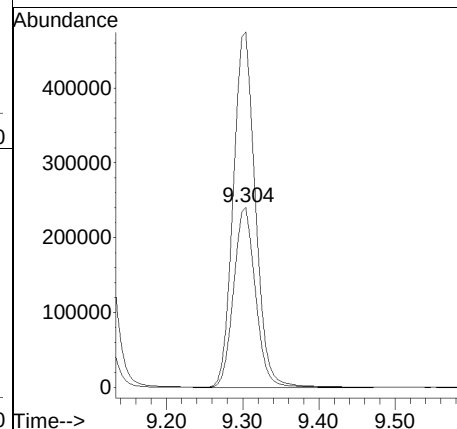
Tgt Ion:	131	Resp:	132364
Ion Ratio	Lower	Upper	
131	100		
133	98.4	77.0	117.0
119	66.8	45.8	85.8

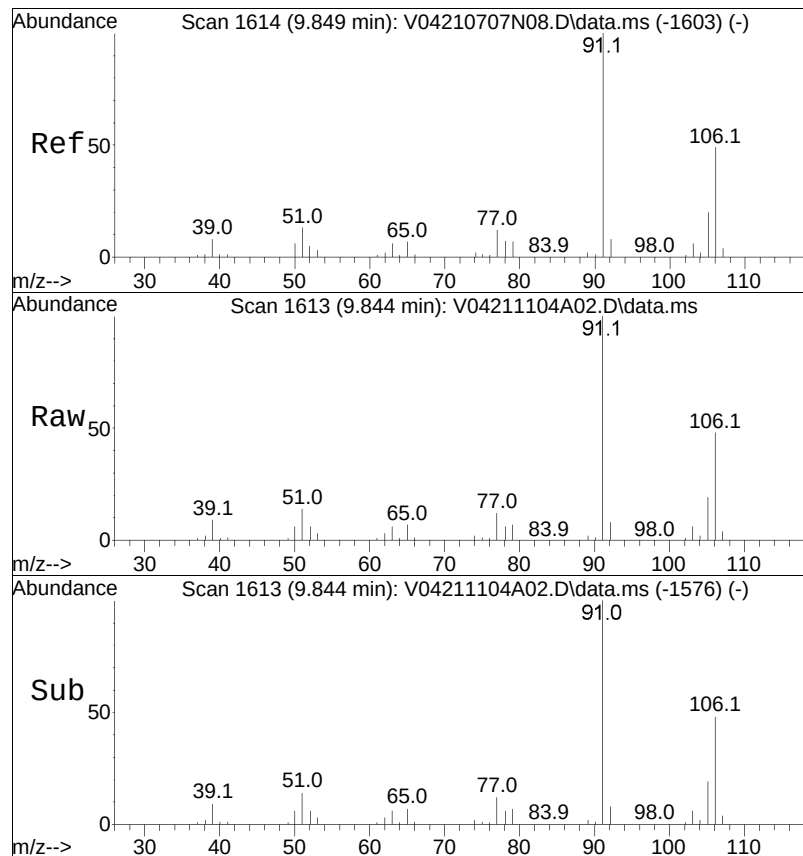




#76
 p/m Xylene
 Concen: 85.27 ug/L
 RT: 9.304 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

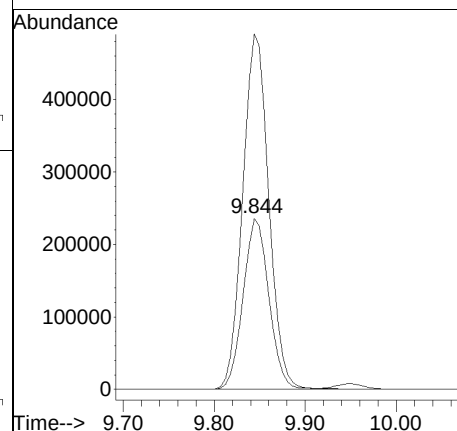
Tgt Ion:106 Resp: 480173
 Ion Ratio Lower Upper
 106 100
 91 198.0 157.1 235.7

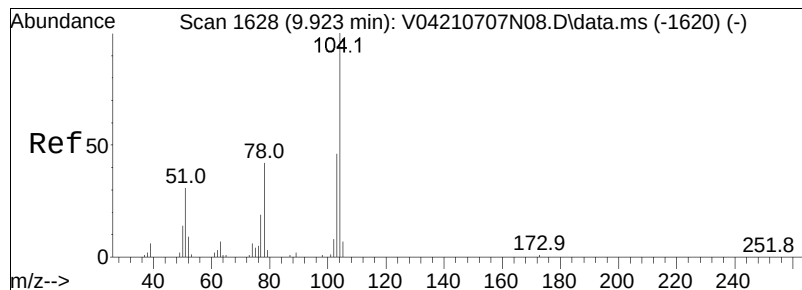




#77
 o Xylene
 Concen: 77.68 ug/L
 RT: 9.844 min Scan# 1613
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt Ion:106 Resp: 466474
 Ion Ratio Lower Upper
 106 100
 91 208.5 165.9 248.9





#78

Styrene

Concen: 81.21 ug/L

RT: 9.923 min Scan# 1628

Delta R.T. -0.000 min

Lab File: V04211104A02.D

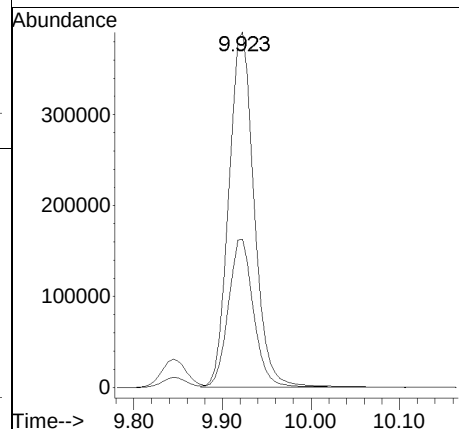
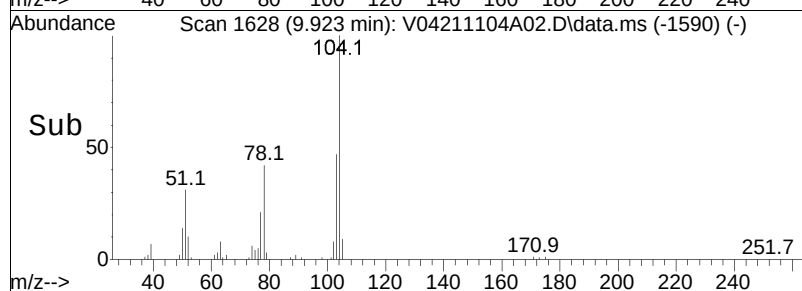
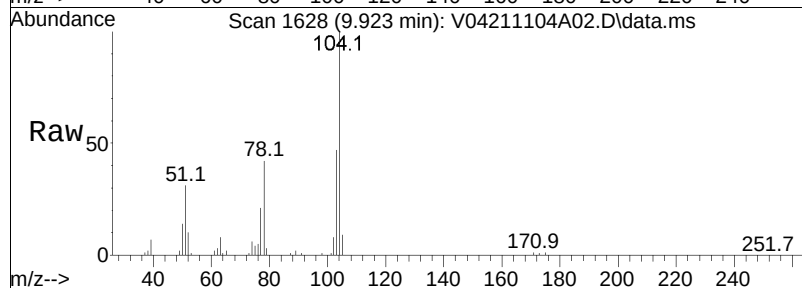
Acq: 4 Nov 2021 7:06 am

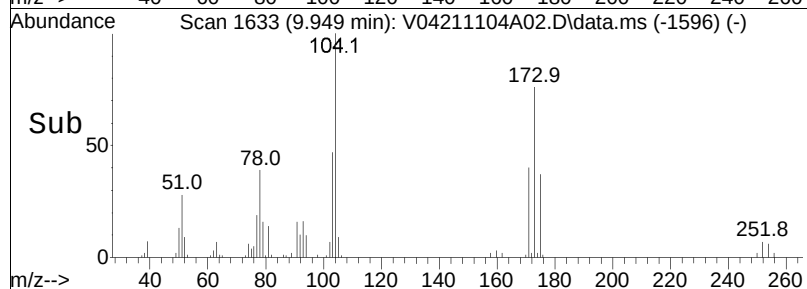
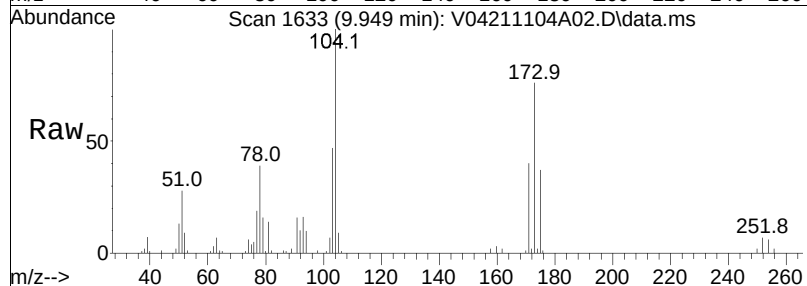
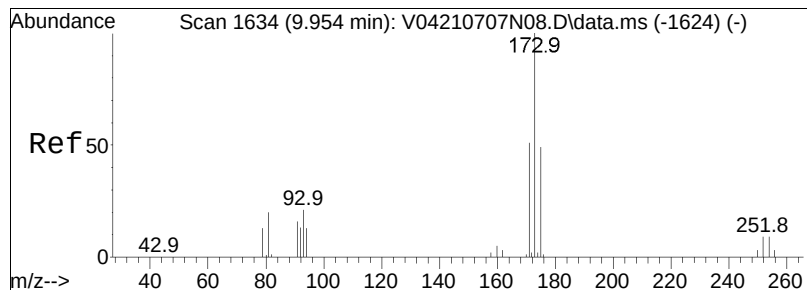
Tgt Ion:104 Resp: 773557

Ion Ratio Lower Upper

104 100

78 41.4 33.0 49.4





#80

Bromoform

Concen: 34.30 ug/L

RT: 9.949 min Scan# 1633

Delta R.T. -0.005 min

Lab File: V04211104A02.D

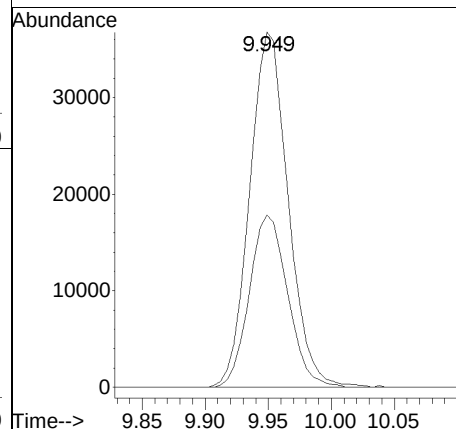
Acq: 4 Nov 2021 7:06 am

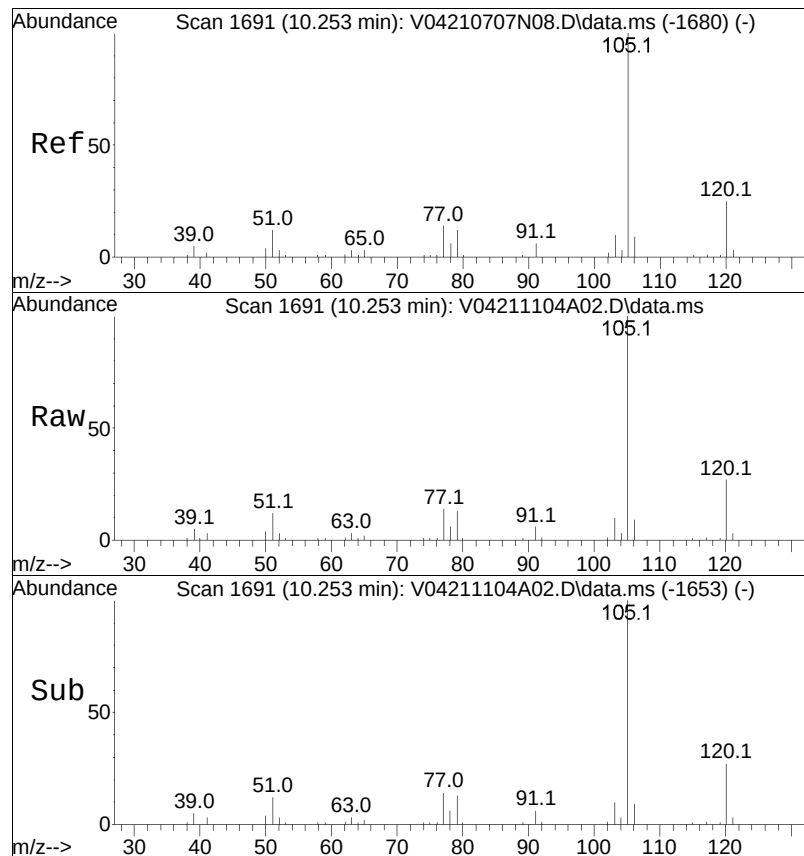
Tgt Ion:173 Resp: 78256

Ion Ratio Lower Upper

173 100

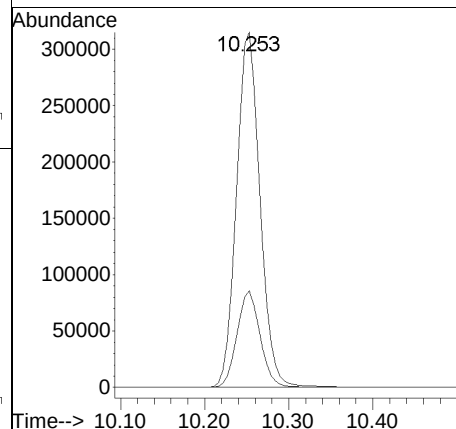
175 48.3 28.2 68.2

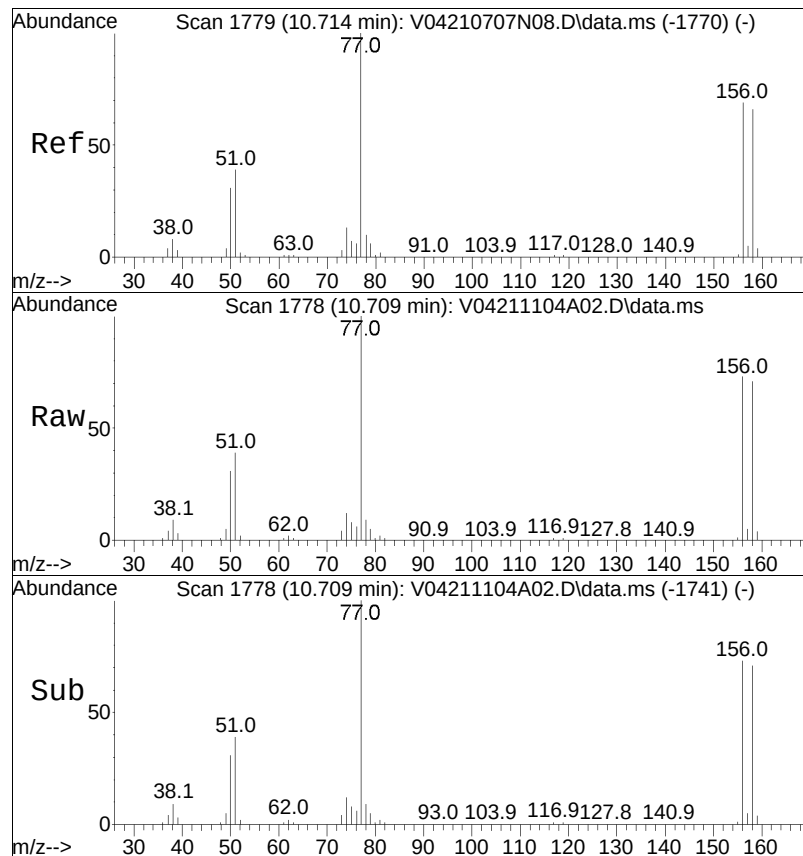




#82
Isopropylbenzene
Concen: 37.71 ug/L
RT: 10.253 min Scan# 1691
Delta R.T. -0.000 min
Lab File: V04211104A02.D
Acq: 4 Nov 2021 7:06 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	6.0	46.0





#84

Bromobenzene

Concen: 41.47 ug/L

RT: 10.709 min Scan# 1778

Delta R.T. -0.005 min

Lab File: V04211104A02.D

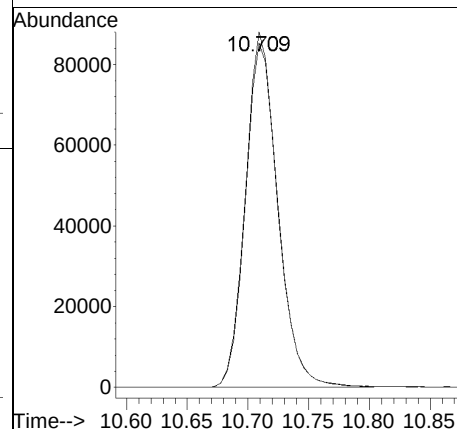
Acq: 4 Nov 2021 7:06 am

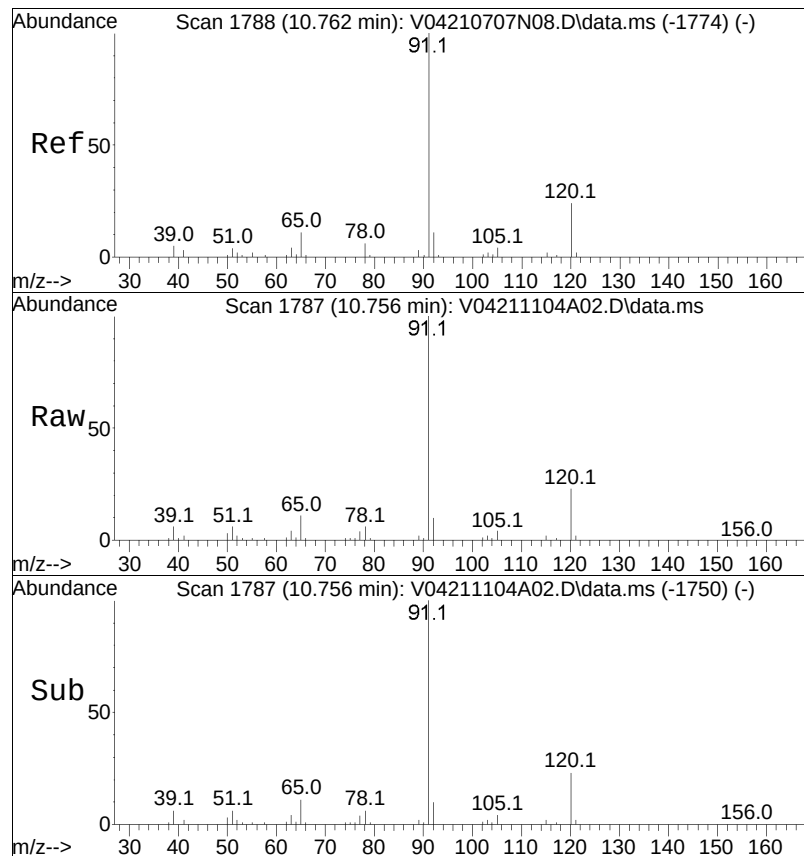
Tgt Ion:156 Resp: 163511

Ion Ratio Lower Upper

156 100

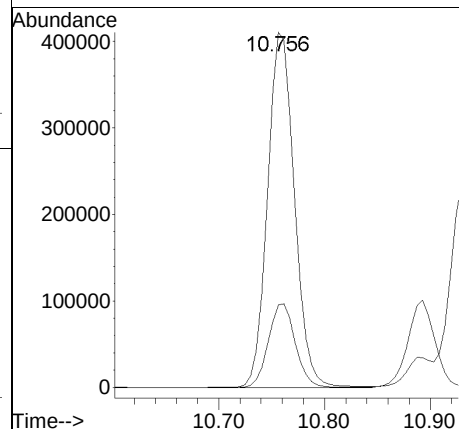
158 97.5 79.0 118.4

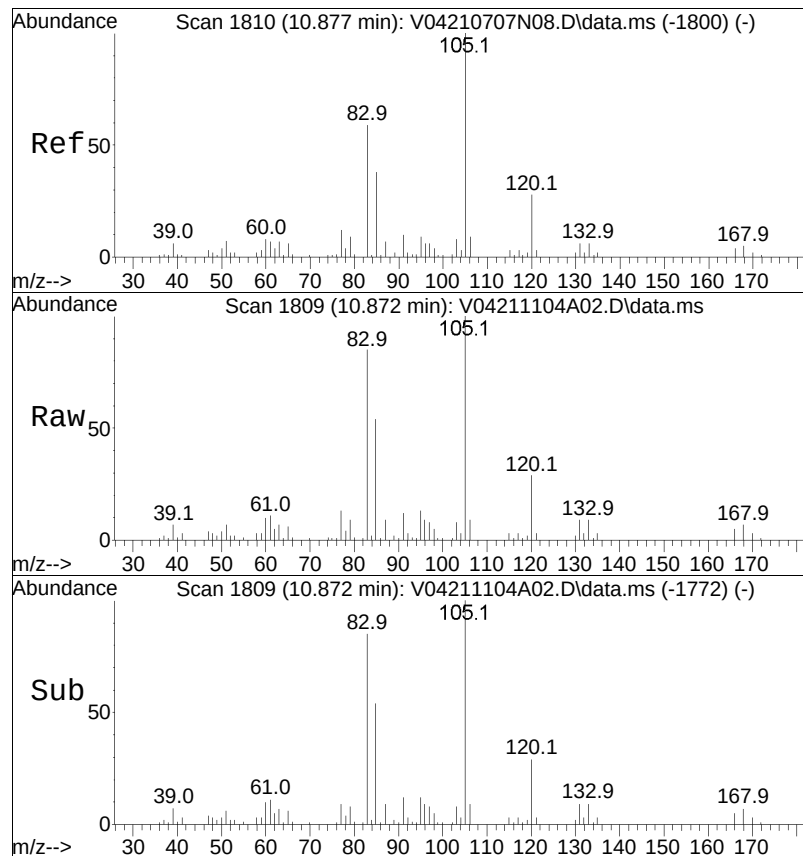




#85
 n-Propylbenzene
 Concen: 39.81 ug/L
 RT: 10.756 min Scan# 1787
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

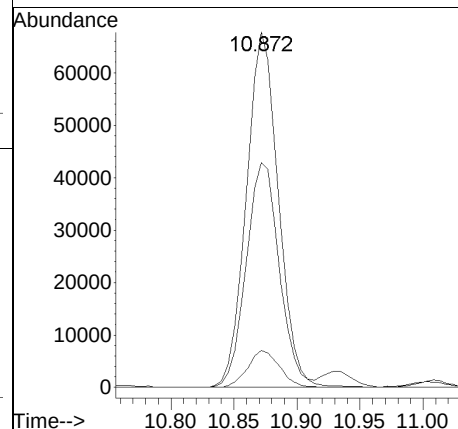
Tgt Ion:	91	Resp:	724911
Ion Ratio	Lower	Upper	
91	100		
120	23.5	18.9	28.3

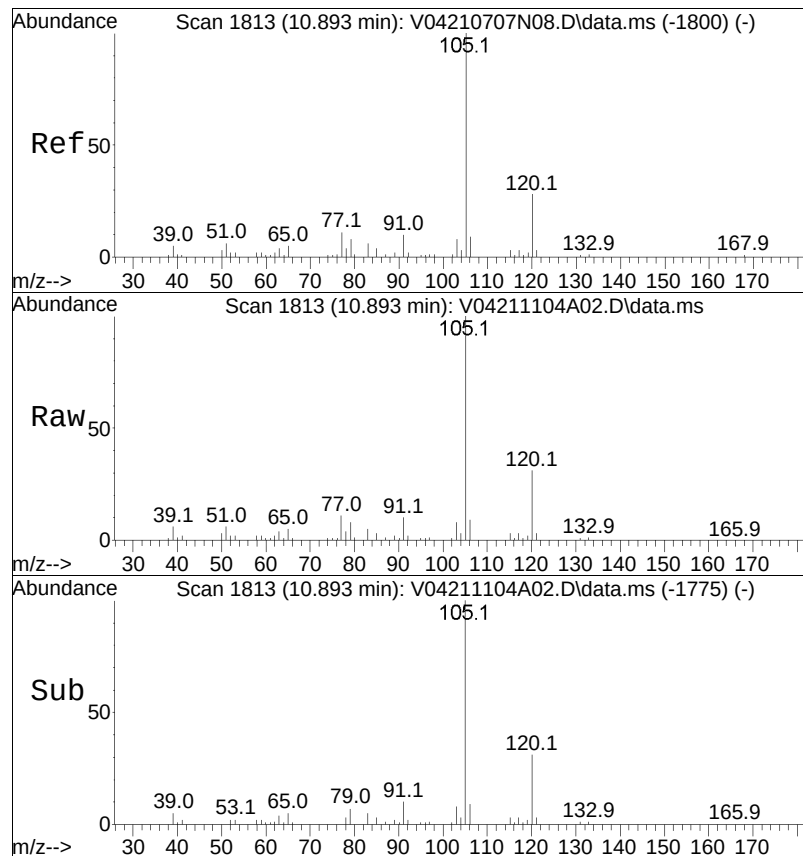




#87
 1,1,2,2-Tetrachloroethane
 Concen: 35.43 ug/L
 RT: 10.872 min Scan# 1809
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

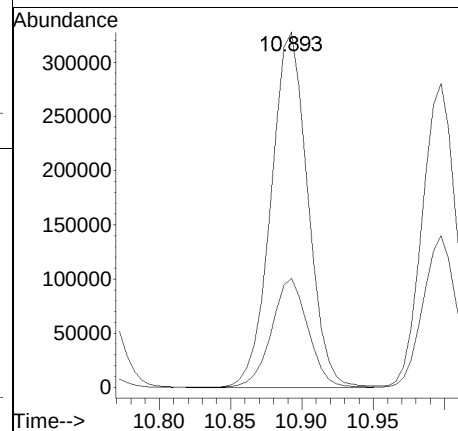
Tgt Ion:	83	Resp:	119763
Ion Ratio	Lower	Upper	
83	100		
131	10.4	0.0	30.7
85	65.6	44.7	84.7

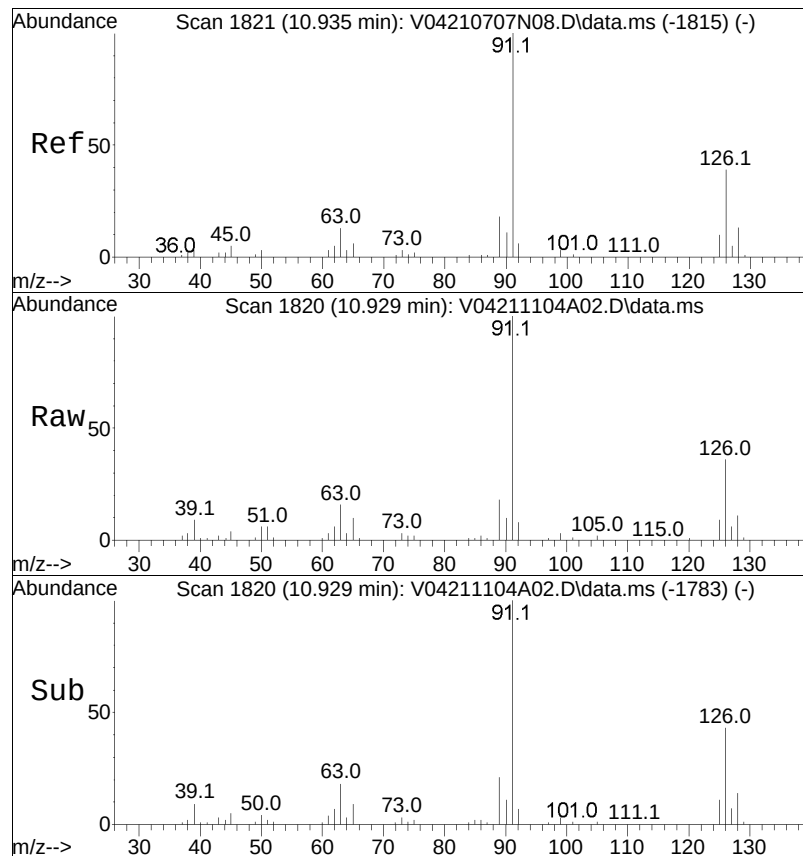




#88
 4-Ethyltoluene
 Concen: 37.54 ug/L
 RT: 10.893 min Scan# 1813
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

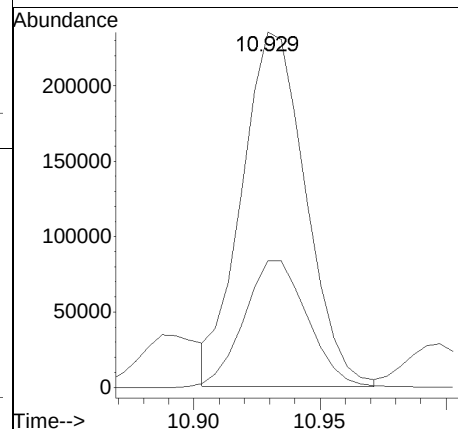
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	30.1	19.2	40.0	

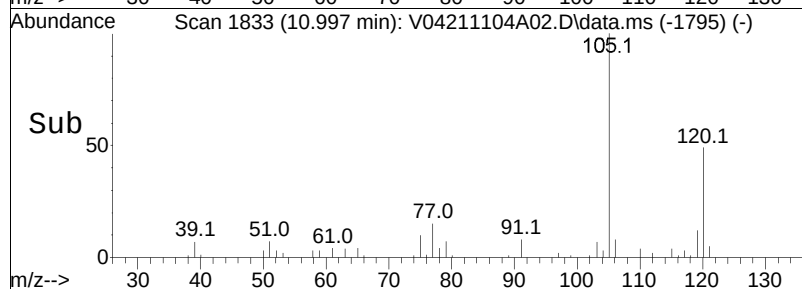
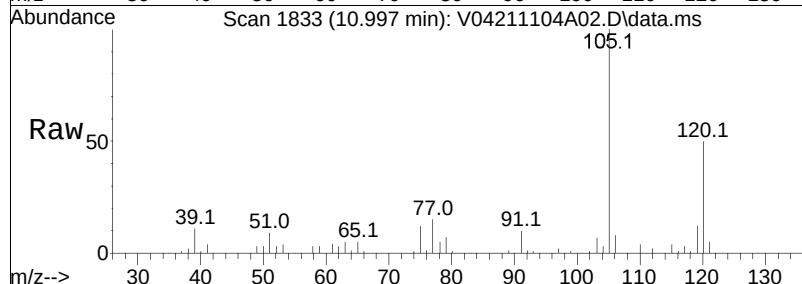
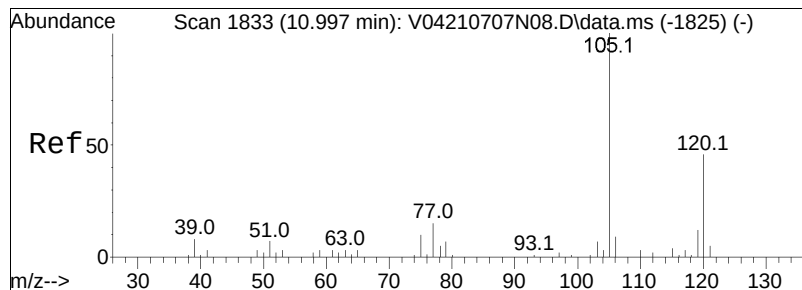




#89
 2-Chlorotoluene
 Concen: 38.09 ug/L
 RT: 10.929 min Scan# 1820
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

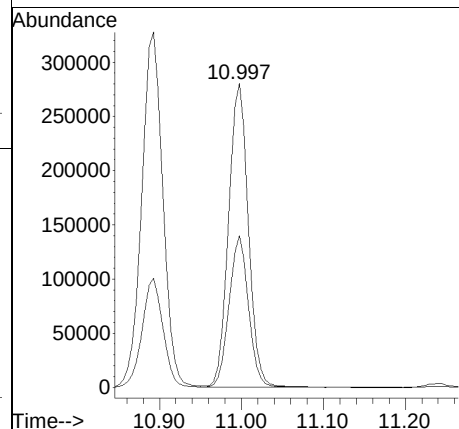
Tgt	Ion	Resp	Lower	Upper
91	100	415720		
126	35.8	27.8	41.8	

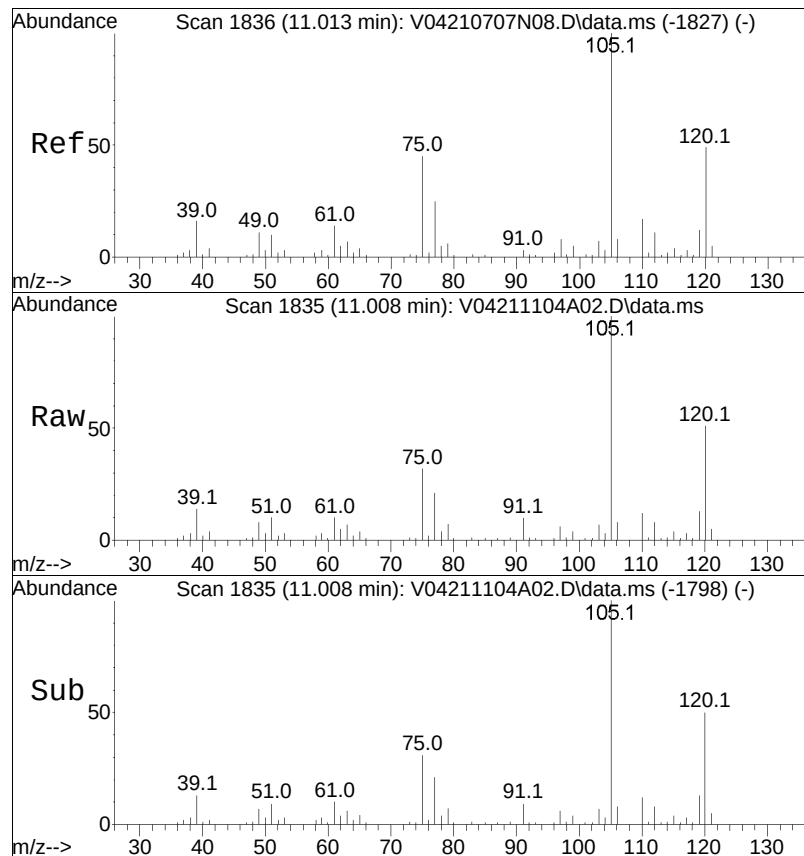




#90
 1,3,5-Trimethylbenzene
 Concen: 35.27 ug/L
 RT: 10.997 min Scan# 1833
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

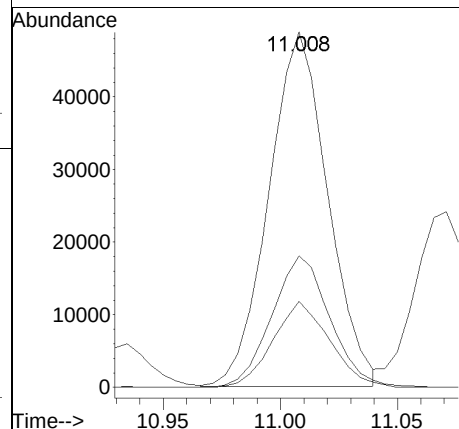
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.1	38.4	57.6

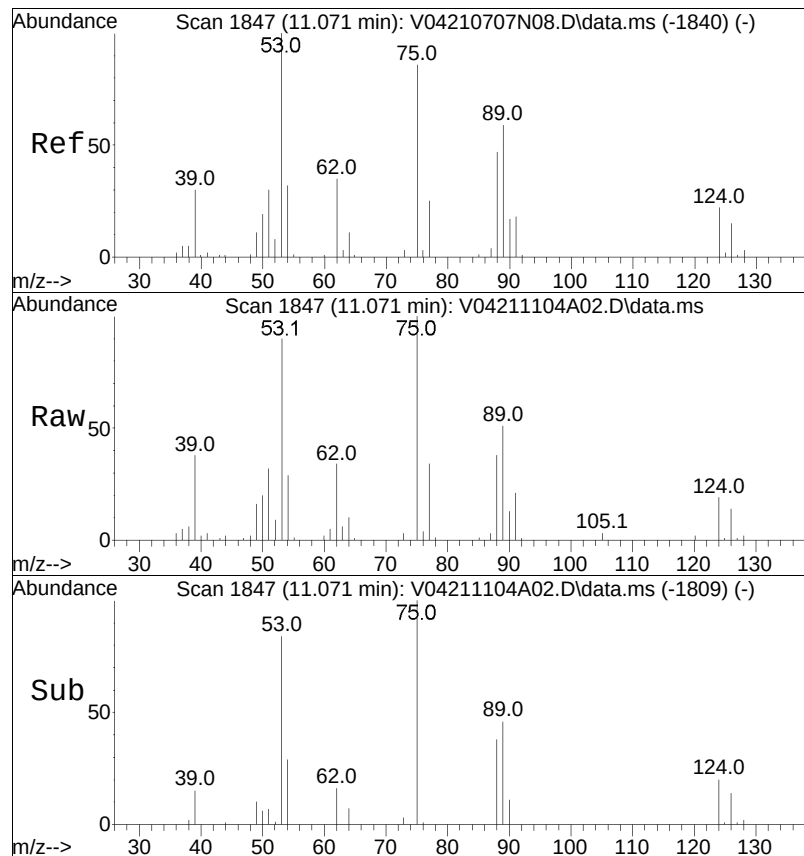




#91
 1,2,3-Trichloropropane
 Concen: 32.67 ug/L
 RT: 11.008 min Scan# 1835
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

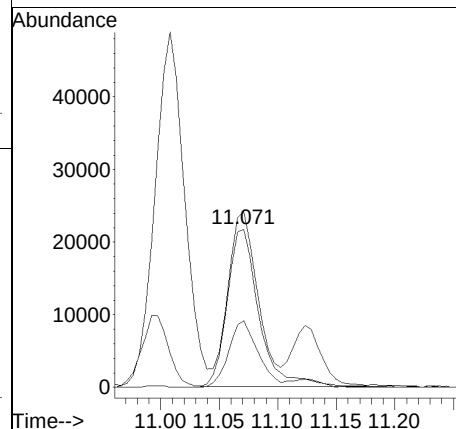
Tgt Ion:	75	Resp:	85501
Ion Ratio	100	Lower	Upper
75	100		
110	36.6	24.6	51.2
112	23.3	15.5	32.3

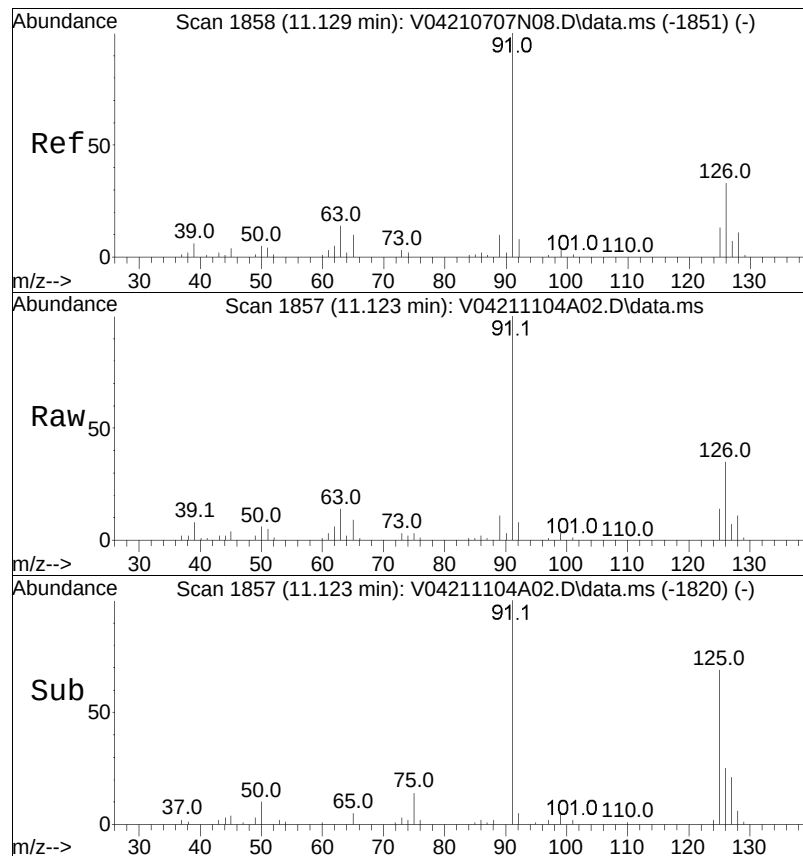




#92
 trans-1,4-Dichloro-2-butene
 Concen: 33.67 ug/L
 RT: 11.071 min Scan# 1847
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

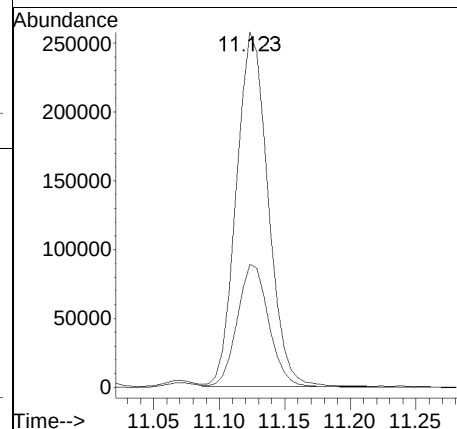
Tgt	Ion	Ratio	Lower	Upper
53	100			
88	39.8	35.5	53.3	
75	103.9	82.8	124.2	

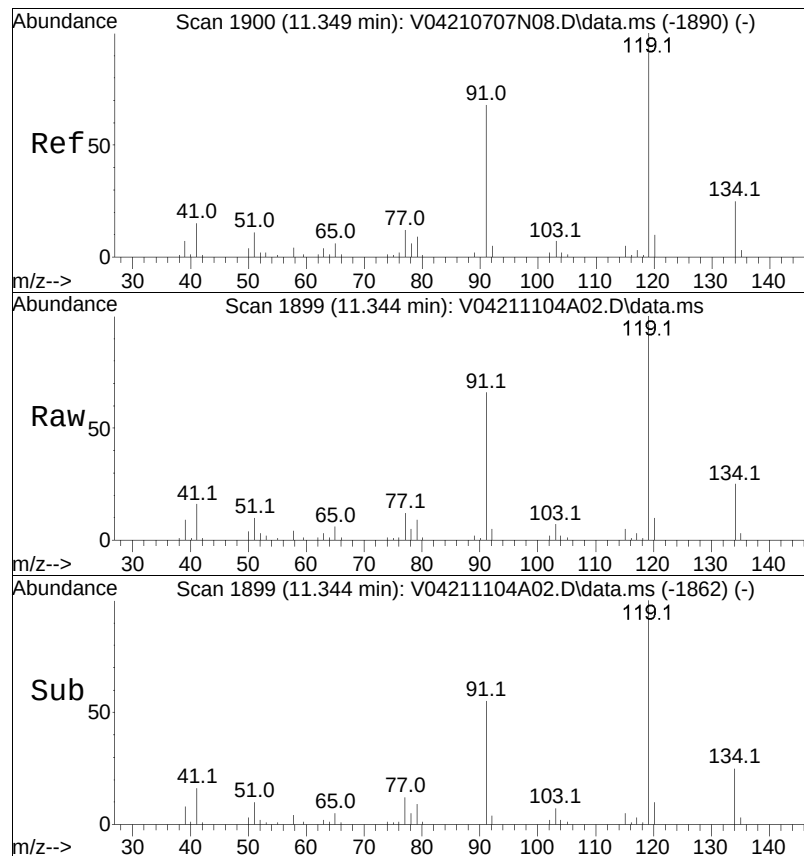




#93
 4-Chlorotoluene
 Concen: 38.07 ug/L
 RT: 11.123 min Scan# 1857
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

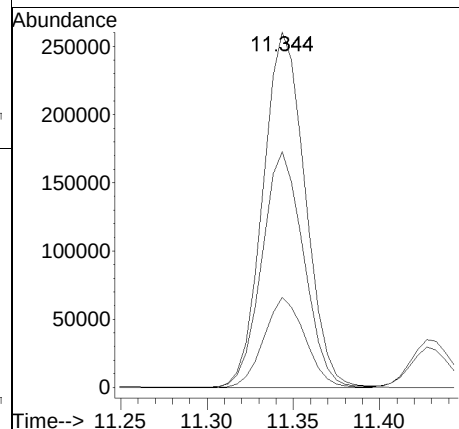
Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	27.6	41.4

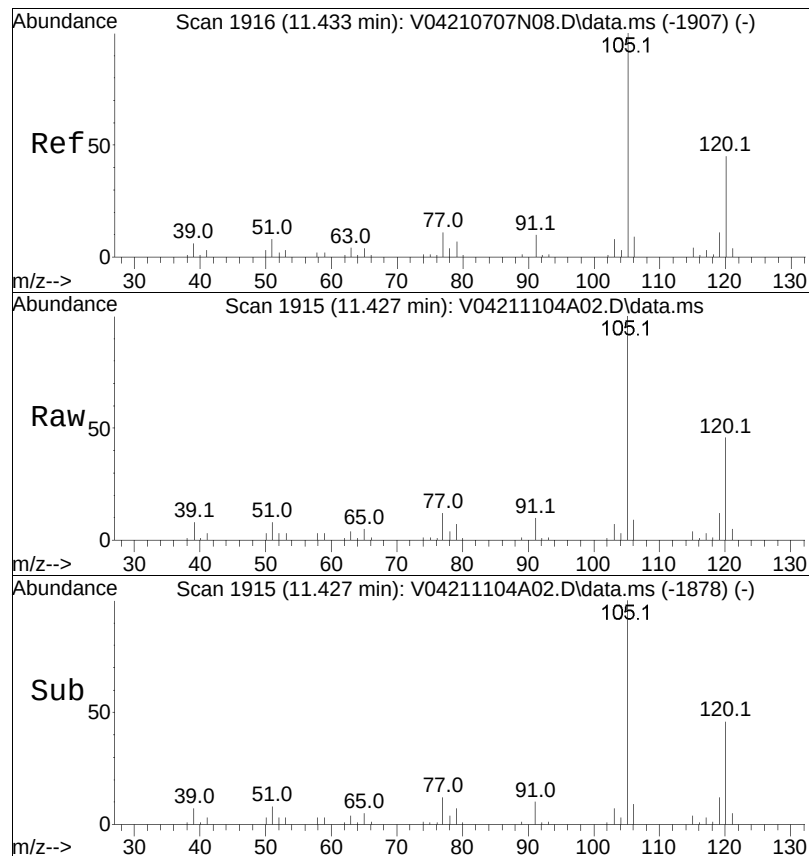




#94
 tert-Butylbenzene
 Concen: 39.30 ug/L
 RT: 11.344 min Scan# 1899
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

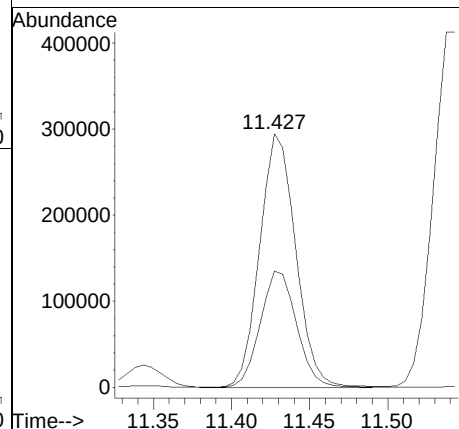
Tgt Ion	Ratio	Lower	Upper
119	100		
91	65.4	53.0	79.6
134	24.7	19.6	29.4

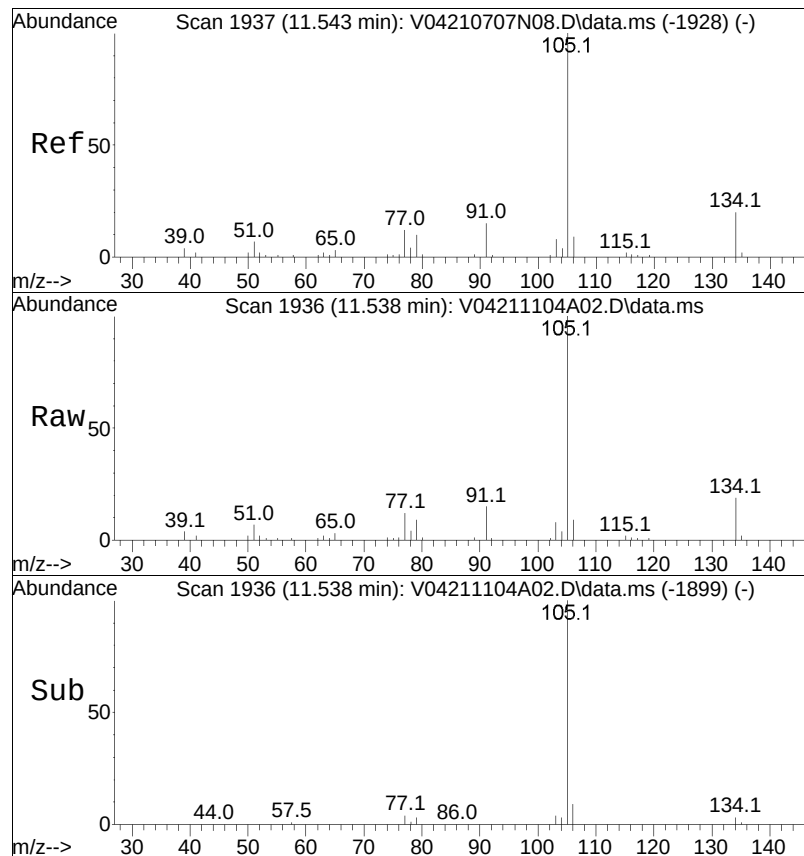




#97
 1,2,4-Trimethylbenzene
 Concen: 35.56 ug/L
 RT: 11.427 min Scan# 1915
 Delta R.T. -0.006 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

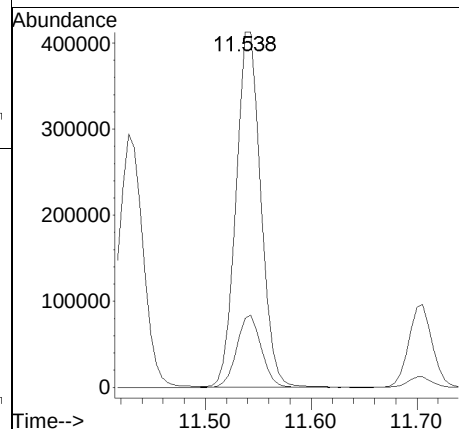
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	46.1		36.4	54.6	

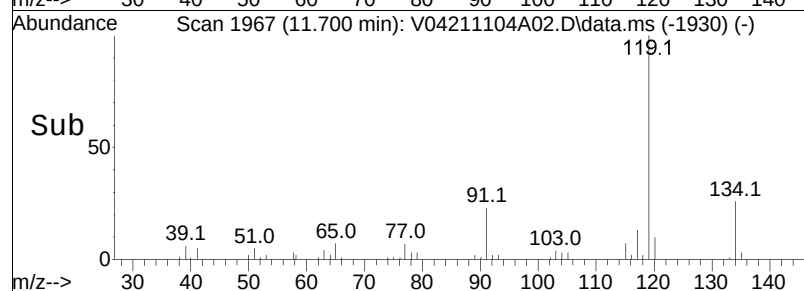
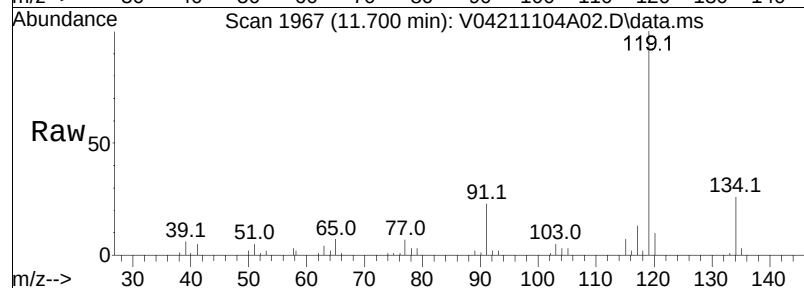
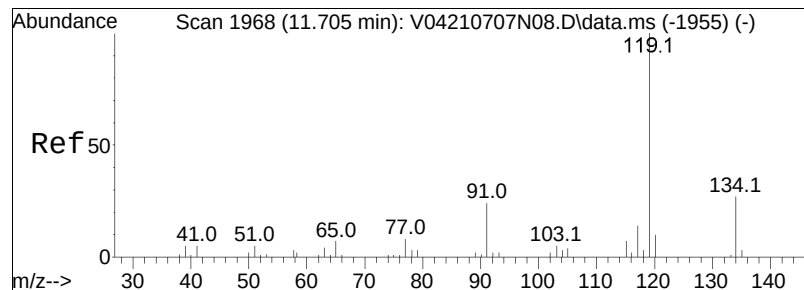




#98
 sec-Butylbenzene
 Concen: 37.99 ug/L
 RT: 11.538 min Scan# 1936
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

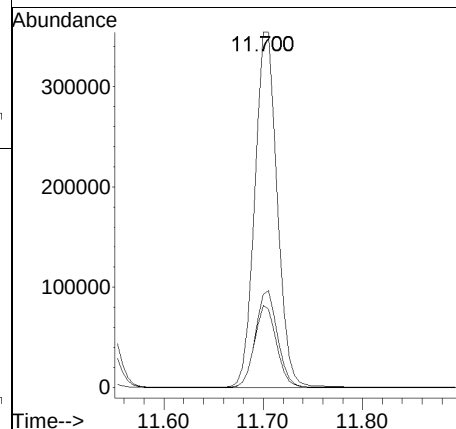
Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.2	12.9	26.9

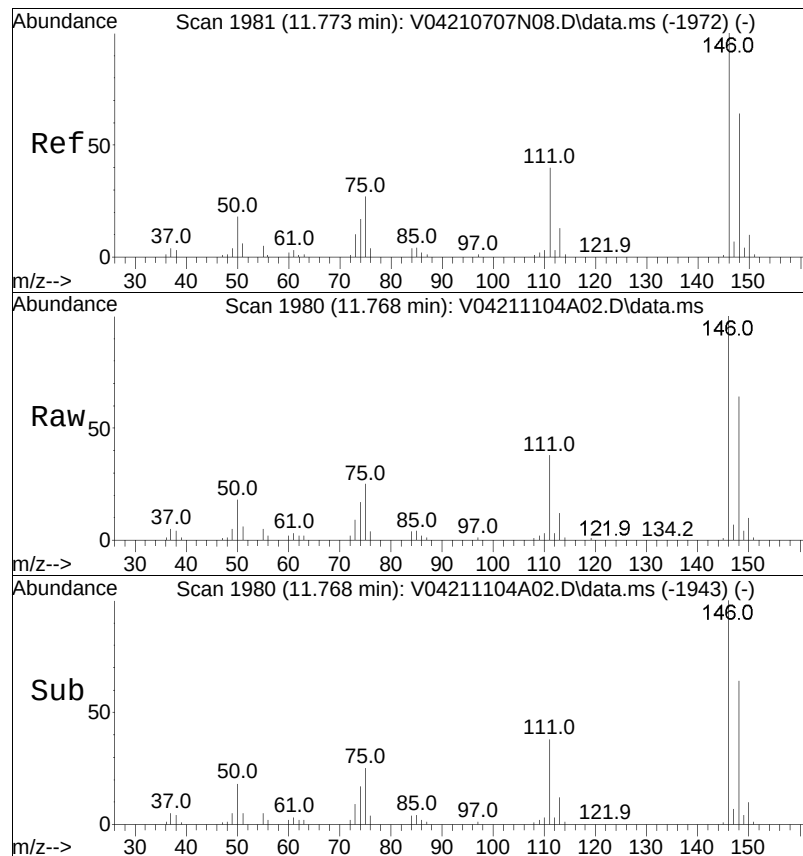




#99
 p-Isopropyltoluene
 Concen: 38.94 ug/L
 RT: 11.700 min Scan# 1967
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

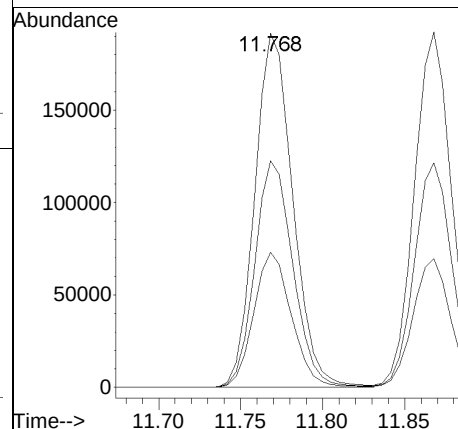
Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	17.1	35.5
91	22.7	14.8	30.6

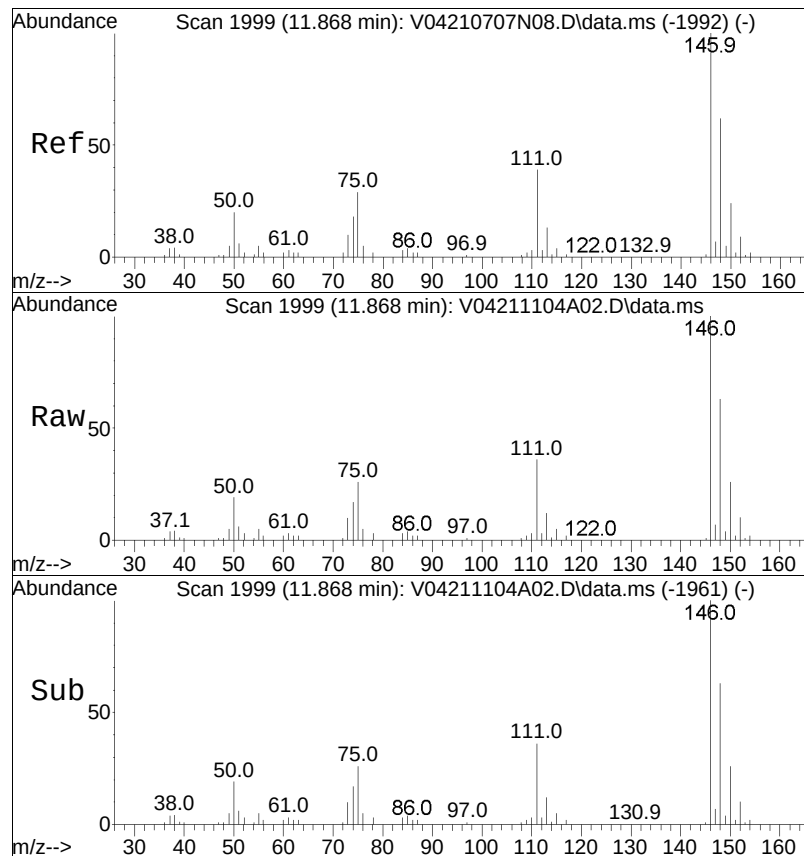




#100
 1,3-Dichlorobenzene
 Concen: 39.81 ug/L
 RT: 11.768 min Scan# 1980
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

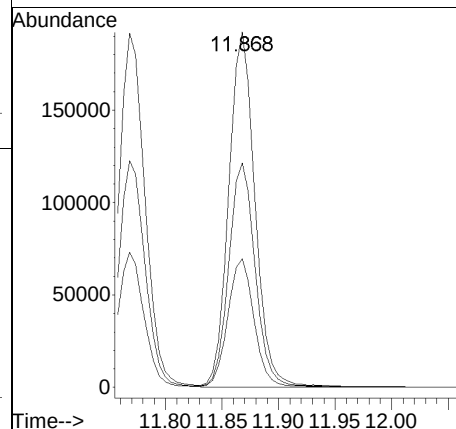
Tgt	Ion	Ratio	Lower	Upper
146	100			
111	37.8	24.8	51.6	
148	64.1	41.6	86.4	

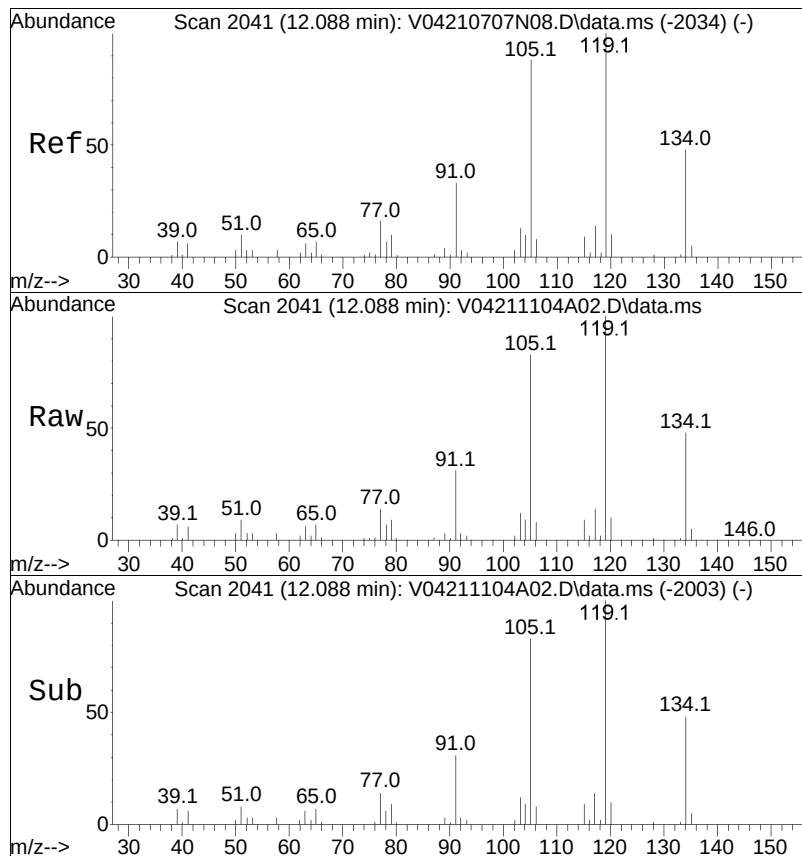




#101
 1,4-Dichlorobenzene
 Concen: 39.05 ug/L
 RT: 11.868 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

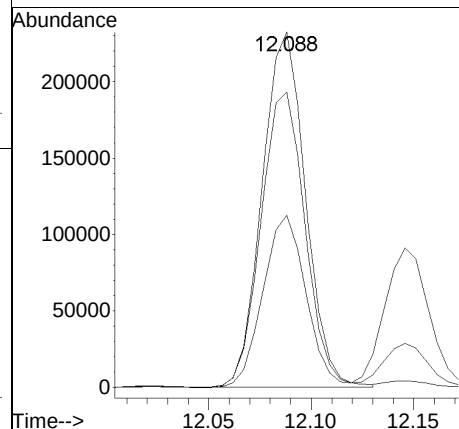
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	30.2	45.2
148	64.5	50.6	76.0

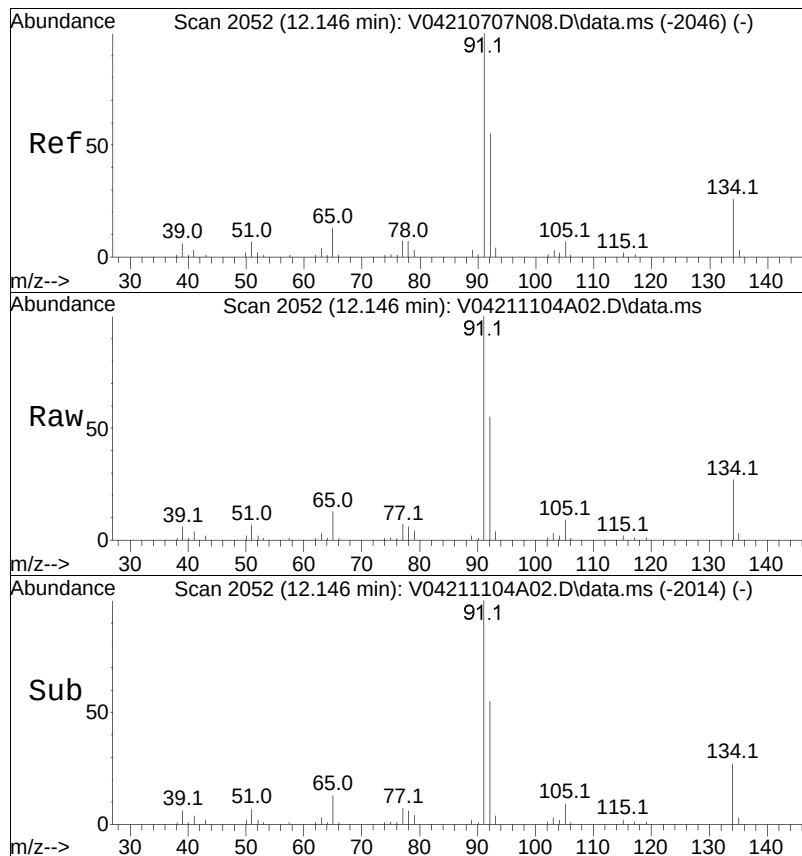




#102
 p-Diethylbenzene
 Concen: 40.60 ug/L
 RT: 12.088 min Scan# 2041
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

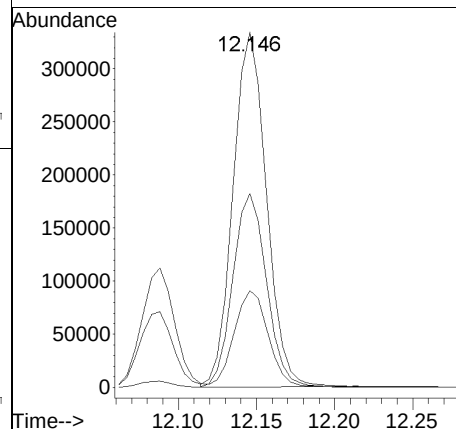
Tgt Ion	Ratio	Lower	Upper
119	100		
105	84.3	55.6	115.6
134	48.2	30.7	63.9

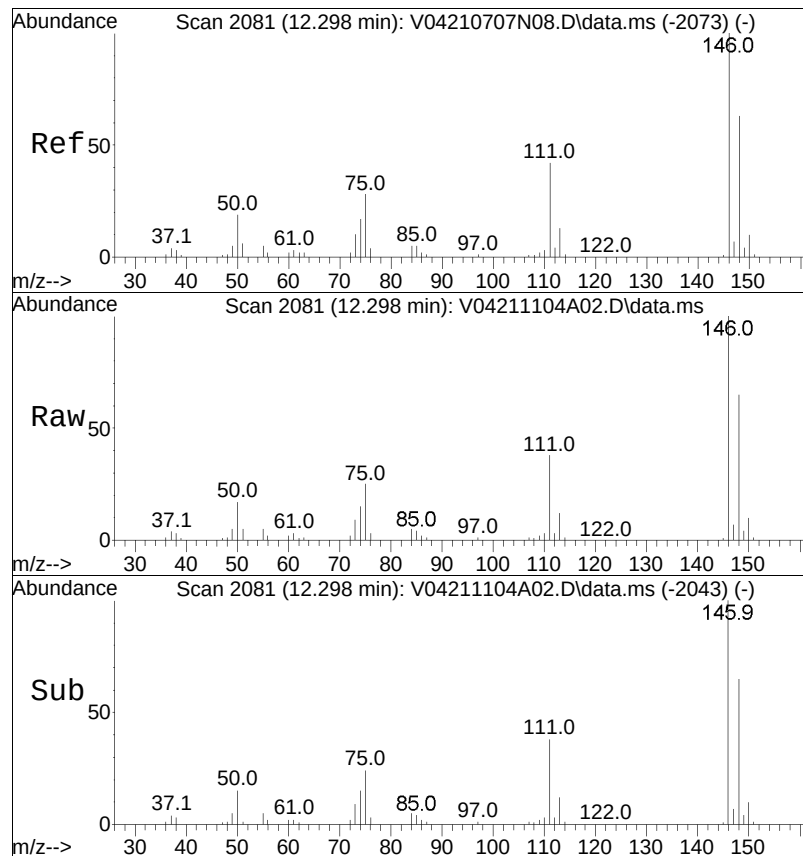




#103
 n-Butylbenzene
 Concen: 39.01 ug/L
 RT: 12.146 min Scan# 2052
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

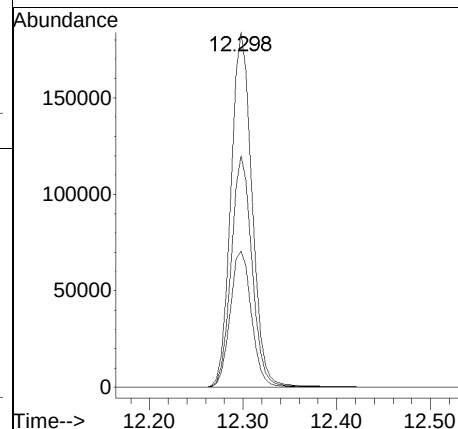
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	43.4	65.2
134	27.8	21.5	32.3

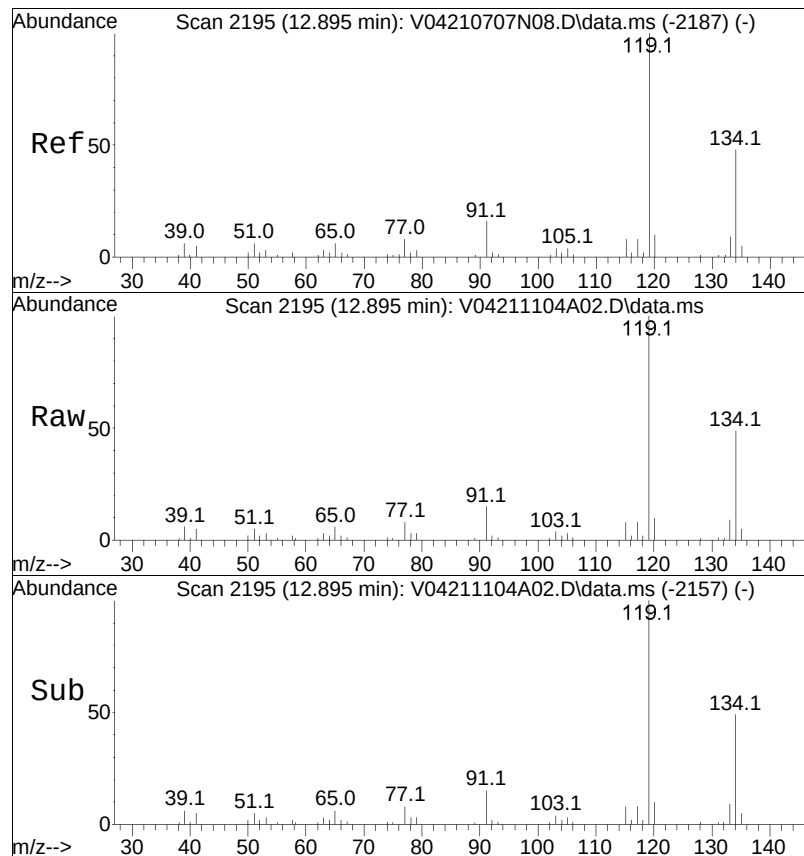




#104
 1,2-Dichlorobenzene
 Concen: 39.61 ug/L
 RT: 12.298 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

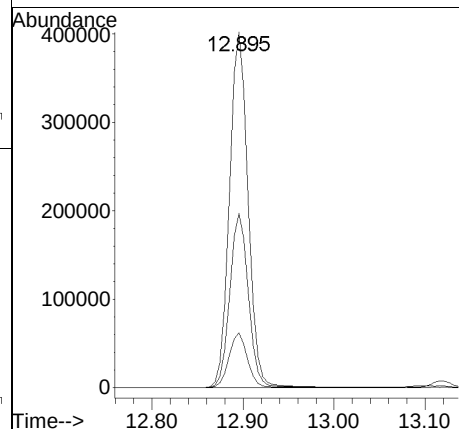
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	25.5	52.9
148	64.4	40.8	84.8

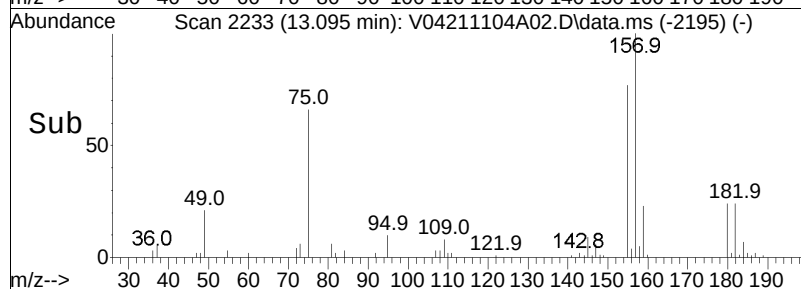
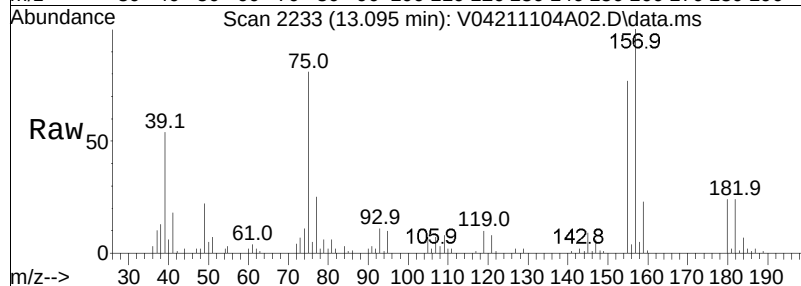
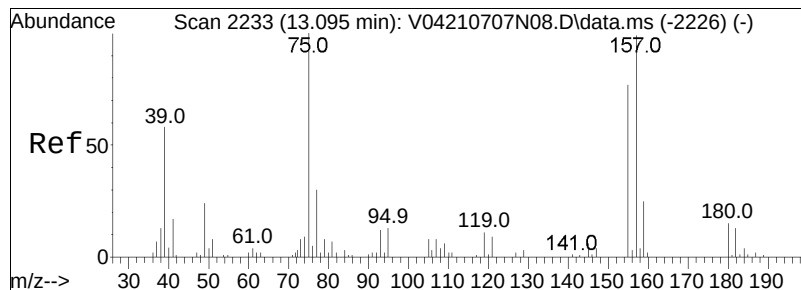




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 41.55 ug/L
 RT: 12.895 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

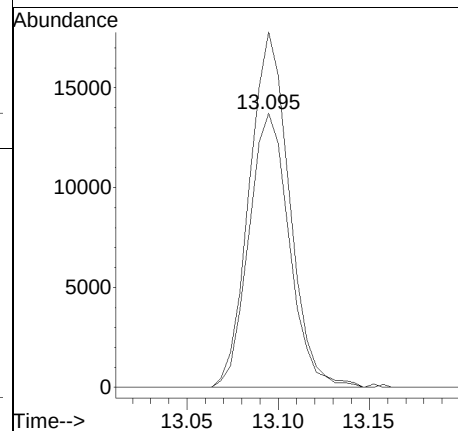
Tgt Ion	Ratio	Lower	Upper
119	100		
134	49.0	31.3	64.9
91	15.2	10.1	21.1

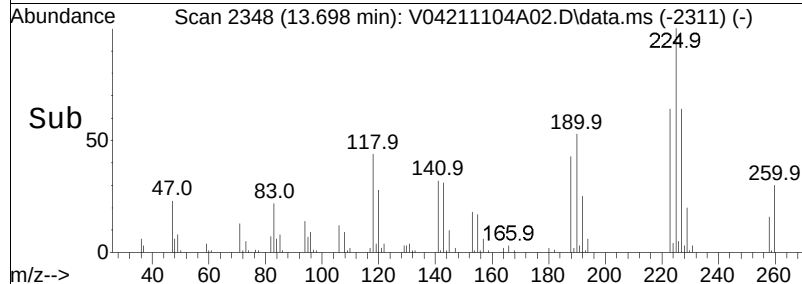
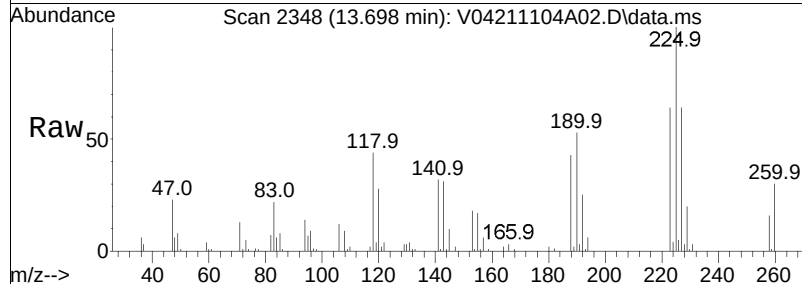
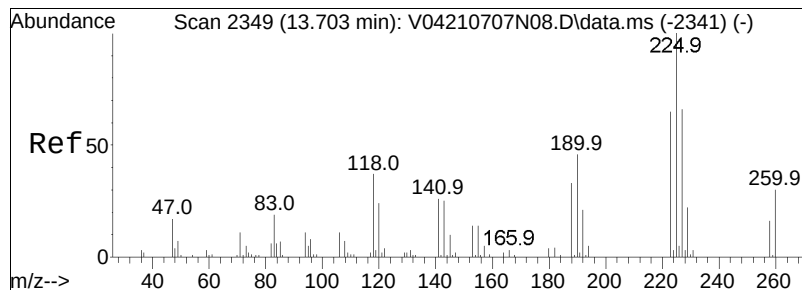




#106
 1,2-Dibromo-3-chloropropane
 Concen: 37.59 ug/L
 RT: 13.095 min Scan# 2233
 Delta R.T. -0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

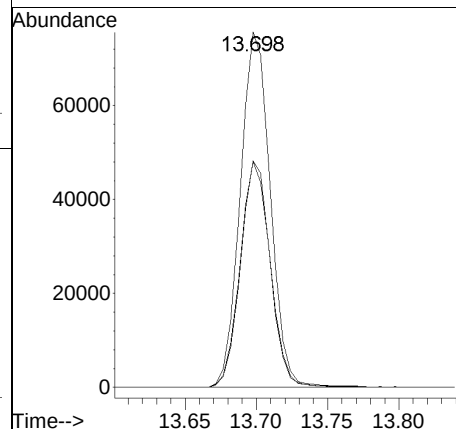
Tgt Ion	155	157	Ratio	100	Resp	21171	Lower	Upper
155	100							
157	128.9						103.2	154.8

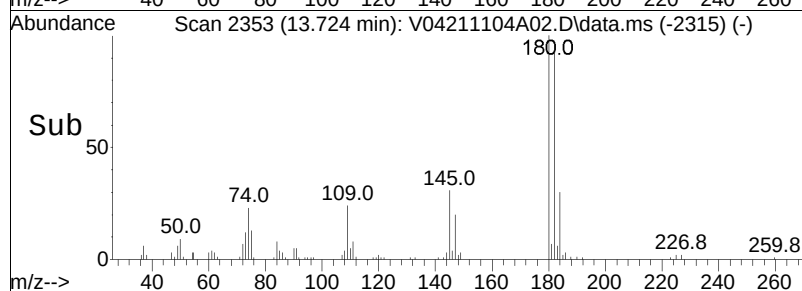
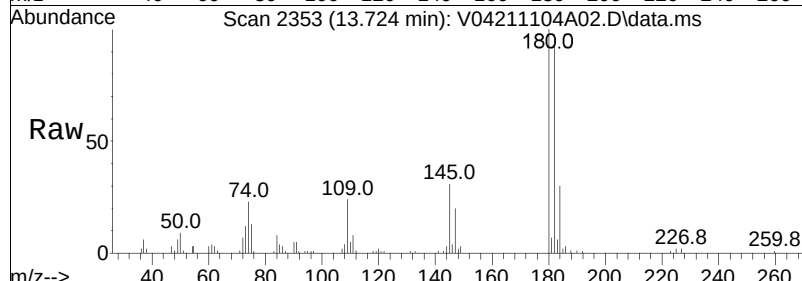
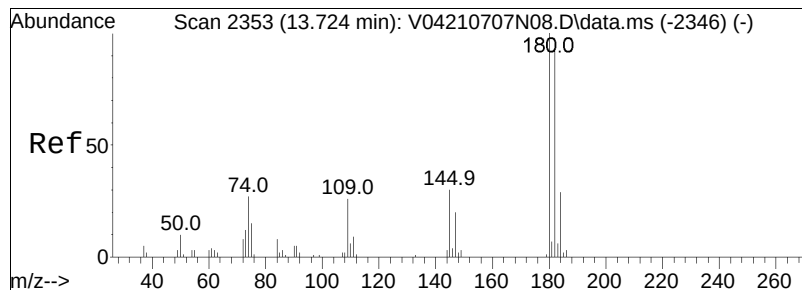




#108
 Hexachlorobutadiene
 Concen: 35.29 ug/L
 RT: 13.698 min Scan# 2348
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.7	76.1
227	63.6	50.7	76.1





#109

1,2,4-Trichlorobenzene

Concen: 41.93 ug/L

RT: 13.724 min Scan# 2353

Delta R.T. -0.000 min

Lab File: V04211104A02.D

Acq: 4 Nov 2021 7:06 am

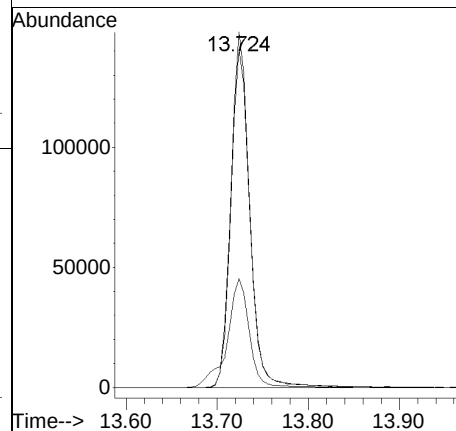
Tgt Ion:180 Resp: 213164

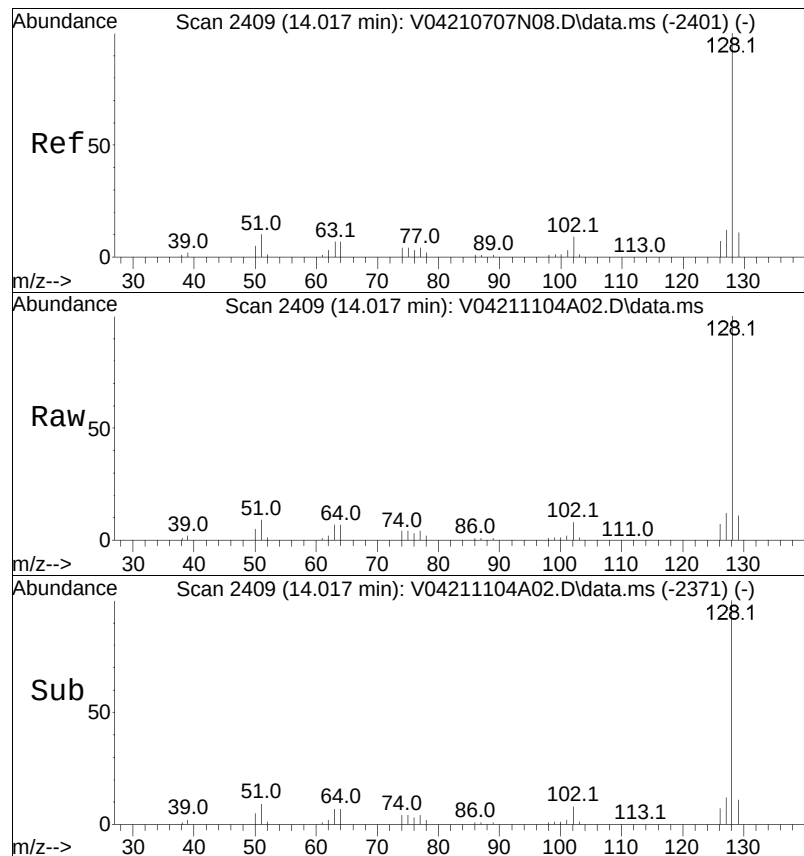
Ion Ratio Lower Upper

180 100

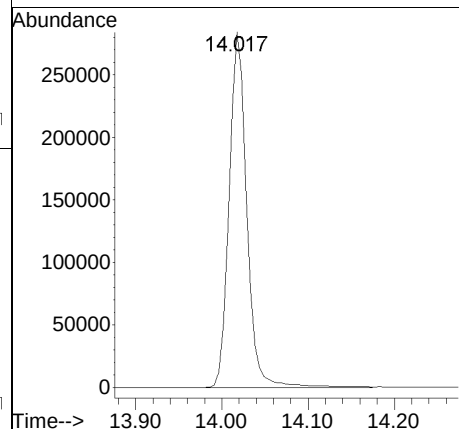
182 95.7 77.0 115.4

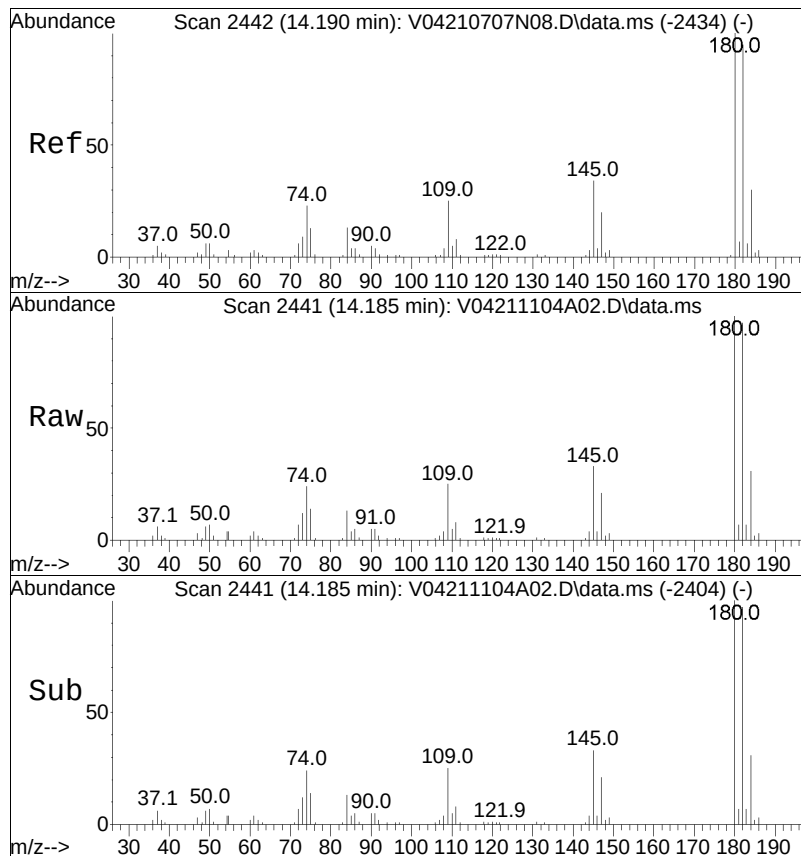
145 35.8 28.4 42.6





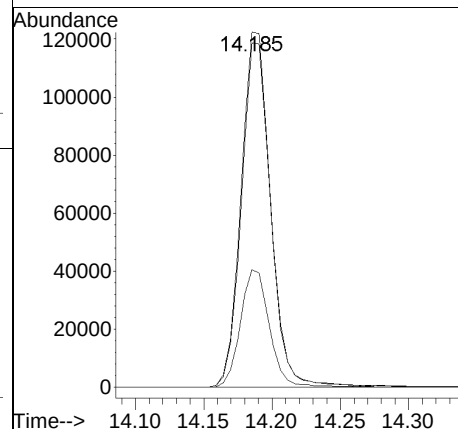
#110
 Naphthalene
 Concen: 37.36 ug/L
 RT: 14.017 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am
 Tgt Ion:128 Resp: 404199





#111
 1,2,3-Trichlorobenzene
 Concen: 39.89 ug/L
 RT: 14.185 min Scan# 2441
 Delta R.T. -0.005 min
 Lab File: V04211104A02.D
 Acq: 4 Nov 2021 7:06 am

Tgt Ion:	180	Resp:	184732
Ion Ratio	Lower	Upper	
180	100		
182	96.3	75.9	113.9
145	32.7	25.8	38.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2021\20	Method	: V104_210707N_8260.m
Data File	: V04211104A02.D	Operator	: VOA104:MV
Date Inj'd	: 11/4/2021 7:06 am	Instrument	: VOA104
Sample	: WG1567116-3,31,5,5	Quant Date	: 11/4/2021 7:36 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-3,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.576	96	265810	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.057	117	186983	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.852	152	99430	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	69695	17.213	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	86.06%	
43) 1,2-Dichloroethane-d4	5.309	65	62644	16.321	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	81.61%	
60) Toluene-d8	7.233	98	242393	20.588	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.94%	
83) 4-Bromofluorobenzene	10.599	95	86419	18.767	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.84%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	154158	39.938	ug/L	98
3) Chloromethane	1.675	50	249572	48.587	ug/L	99
4) Vinyl chloride	1.722	62	215651	50.577	ug/L	96
5) Bromomethane	1.995	94	105098	55.564	ug/L	97
6) Chloroethane	2.105	64	97820	55.579	ug/L	92
7) Trichlorofluoromethane	2.226	101	231876	41.753	ug/L	100
8) Ethyl ether	2.488	74	63288	32.842	ug/L	85
10) 1,1-Dichloroethene	2.671	96	140426	43.766	ug/L	91
11) Carbon disulfide	2.698	76	441087	37.024	ug/L	99
15) Methylene chloride	3.185	84	146986	38.734	ug/L	83
17) Acetone	3.227	43	35851M4	46.510	ug/L	
18) trans-1,2-Dichloroethene	3.322	96	151366	41.702	ug/L	90
20) Methyl tert-butyl ether	3.406	73	297048	31.956	ug/L	94
23) 1,1-Dichloroethane	3.872	63	323828	39.676	ug/L	99
25) Acrylonitrile	3.935	53	36532	29.866	ug/L	94
27) Vinyl acetate	4.098	43	270659	33.403	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	156843	38.551	ug/L	89
29) 2,2-Dichloropropane	4.459	77	220673	38.379	ug/L	96
30) Bromochloromethane	4.559	128	71374	38.093	ug/L	86
32) Chloroform	4.627	83	251044	35.217	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-3,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34)	Carbon tetrachloride	4.742	117	202763	38.119	ug/L	100
37)	1,1,1-Trichloroethane	4.811	97	225805	39.963	ug/L	98
39)	2-Butanone	4.915	43	50068M1	34.717	ug/L	
40)	1,1-Dichloropropene	4.926	75	196209	42.656	ug/L	99
41)	Benzene	5.167	78	535422	39.627	ug/L	95
44)	1,2-Dichloroethane	5.377	62	180035	33.921	ug/L	98
48)	Trichloroethene	5.749	95	150424	40.454	ug/L	99
50)	Dibromomethane	6.190	93	73238	33.859	ug/L	97
51)	1,2-Dichloropropane	6.284	63	168765	37.556	ug/L	95
54)	Bromodichloromethane	6.363	83	181548	35.472	ug/L	100
57)	1,4-Dioxane	6.572	88	45997	1564.504	ug/L #	82
58)	cis-1,3-Dichloropropene	7.039	75	211003	38.231	ug/L	96
61)	Toluene	7.291	92	316844	40.514	ug/L	100
62)	4-Methyl-2-pentanone	7.731	58	37797	32.874	ug/L	96
63)	Tetrachloroethene	7.726	166	161225	44.014	ug/L	98
65)	trans-1,3-Dichloropropene	7.783	75	169268	38.423	ug/L	97
68)	1,1,2-Trichloroethane	7.967	83	82812	37.917	ug/L	98
69)	Chlorodibromomethane	8.171	129	129825	40.007	ug/L	99
70)	1,3-Dichloropropane	8.282	76	163140	38.043	ug/L	100
71)	1,2-Dibromoethane	8.434	107	99359	33.900	ug/L	100
72)	2-Hexanone	8.738	43	65586	29.824	ug/L	96
73)	Chlorobenzene	9.078	112	359893	39.926	ug/L	100
74)	Ethylbenzene	9.115	91	618359	40.559	ug/L	100
75)	1,1,1,2-Tetrachloroethane	9.162	131	128882	39.258	ug/L	100
76)	p/m Xylene	9.299	106	482382	85.824	ug/L	99
77)	o Xylene	9.844	106	460578	76.839	ug/L	98
78)	Styrene	9.917	104	762382	80.181	ug/L	100
80)	Bromoform	9.949	173	72357	32.746	ug/L	100
82)	Isopropylbenzene	10.253	105	622866	39.603	ug/L	99
84)	Bromobenzene	10.709	156	159515	41.775	ug/L	98
85)	n-Propylbenzene	10.756	91	729846	41.377	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.872	83	107157	32.731	ug/L	99
88)	4-Ethyltoluene	10.893	105	592854	39.061	ug/L	100
89)	2-Chlorotoluene	10.929	91	412121	38.987	ug/L	99
90)	1,3,5-Trimethylbenzene	10.992	105	468809	36.331	ug/L	97
91)	1,2,3-Trichloropropane	11.008	75	80499	31.761	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.071	53	37449	31.973	ug/L	94
93)	4-Chlorotoluene	11.123	91	420850	38.337	ug/L	99
94)	tert-Butylbenzene	11.343	119	447214	40.994	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N01.D
 Acq On : 4 Nov 2021 5:59 pm
 Operator : VOA104:AJK
 Sample : WG1567587-3,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	11.427	105	470981	36.527	ug/L	100
98)	sec-Butylbenzene	11.543	105	681282	39.824	ug/L	99
99)	p-Isopropyltoluene	11.700	119	565642	40.800	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	303119	40.284	ug/L	100
101)	1,4-Dichlorobenzene	11.868	146	302011	39.281	ug/L	99
102)	p-Diethylbenzene	12.088	119	344614	42.253	ug/L	98
103)	n-Butylbenzene	12.146	91	505510	41.042	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	277658	39.129	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.895	119	554177	41.843	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	18552	34.007	ug/L	99
108)	Hexachlorobutadiene	13.698	225	115351	37.879	ug/L	99
109)	1,2,4-Trichlorobenzene	13.724	180	206574	41.949	ug/L	99
110)	Naphthalene	14.017	128	374114	35.701	ug/L	100
111)	1,2,3-Trichlorobenzene	14.185	180	175163	39.055	ug/L	99

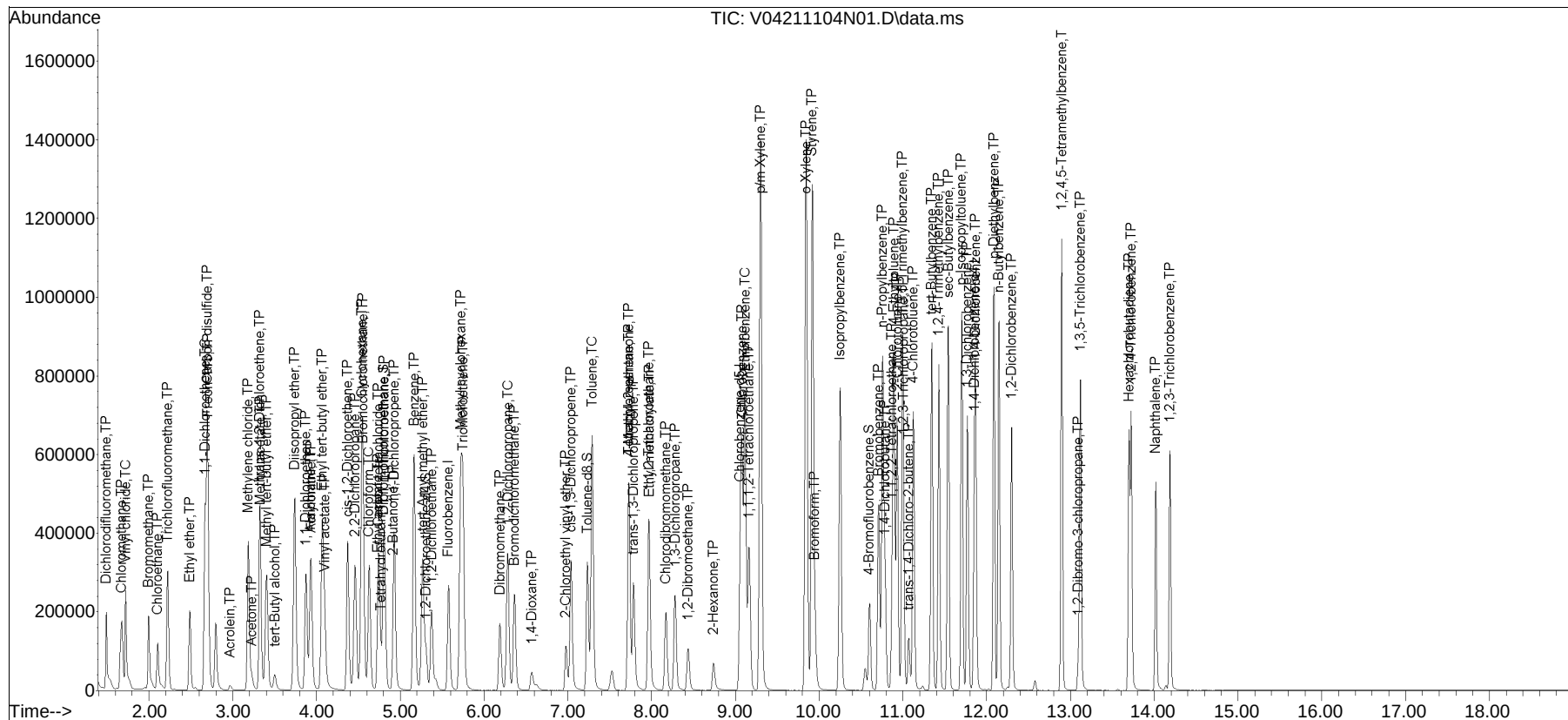
(#) = qualifier out of range (m) = manual integration (+) = signals summed

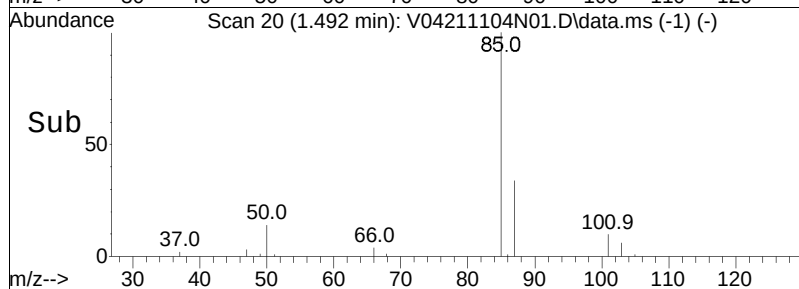
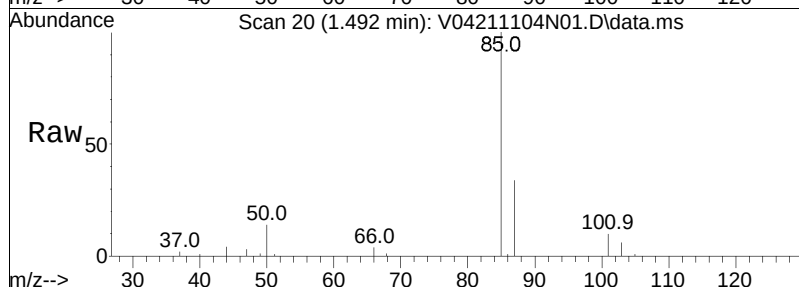
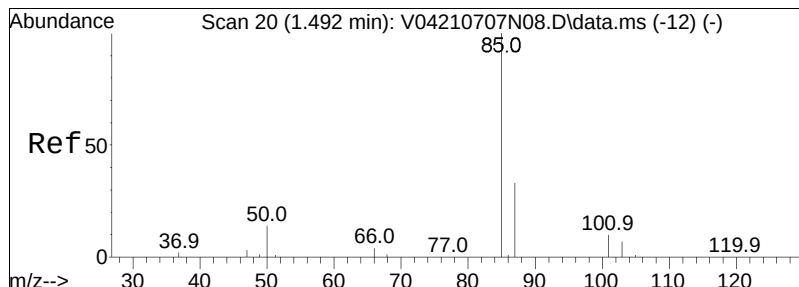
(QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
Data File : V04211104N01.D
Acq On : 4 Nov 2021 5:59 pm
Operator : VOA104:AJK
Sample : WG1567587-3,31,5,5
Misc : WG1567587,ICAL18128
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 04 18:31:19 2021
Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Jul 08 11:04:08 2021
Response via : Initial Calibration

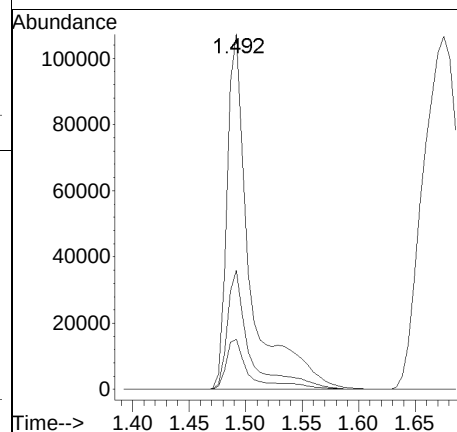
Sub List : 8260-CurveSoil - Megamix plus Diox4N\V04211104N01.D•

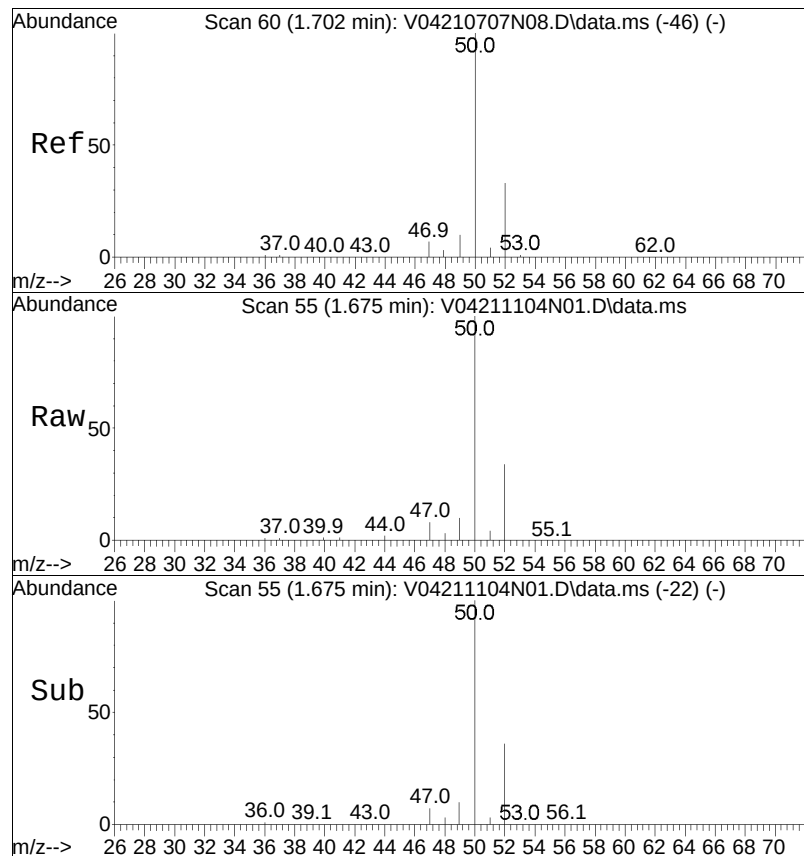




#2
 Dichlorodifluoromethane
 Concen: 39.94 ug/L
 RT: 1.492 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

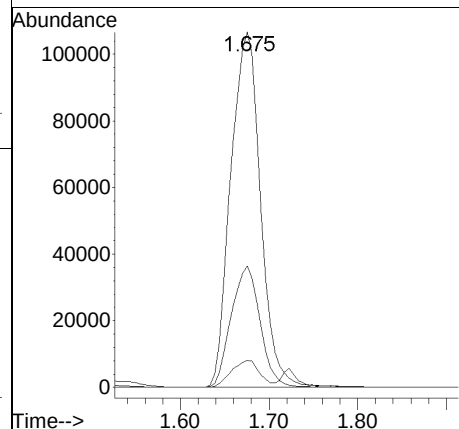
Tgt Ion:	85	Resp:	154158
Ion Ratio	Lower	Upper	
85	100		
87	32.6	20.9	43.5
50	14.5	8.1	16.9

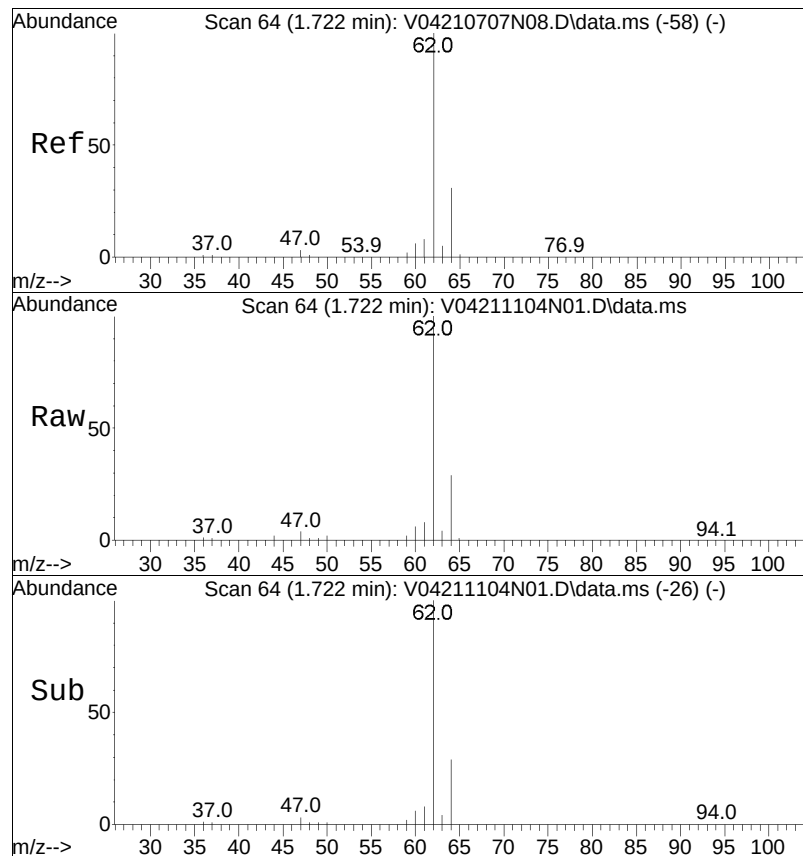




#3
 Chloromethane
 Concen: 48.59 ug/L
 RT: 1.675 min Scan# 55
 Delta R.T. -0.027 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

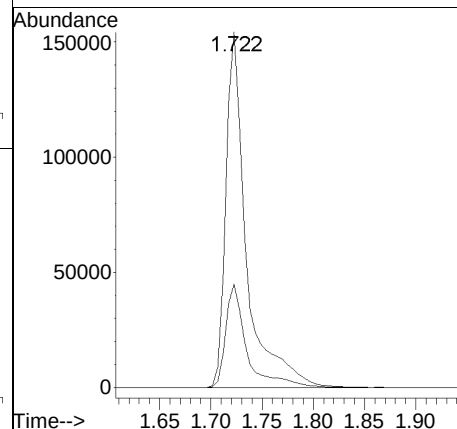
Tgt	Ion: 50	Resp:	249572
Ion	Ratio	Lower	Upper
50	100		
52	33.2	13.0	53.0
47	7.4	0.0	28.2

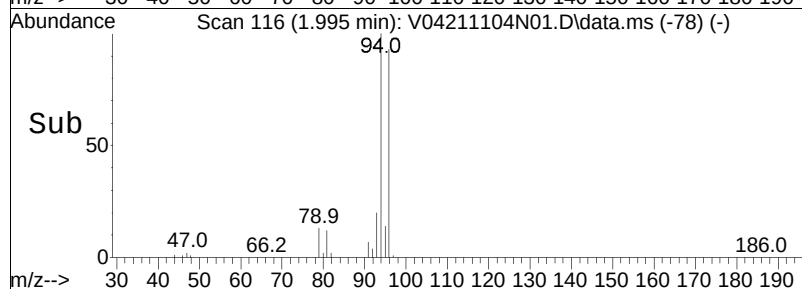
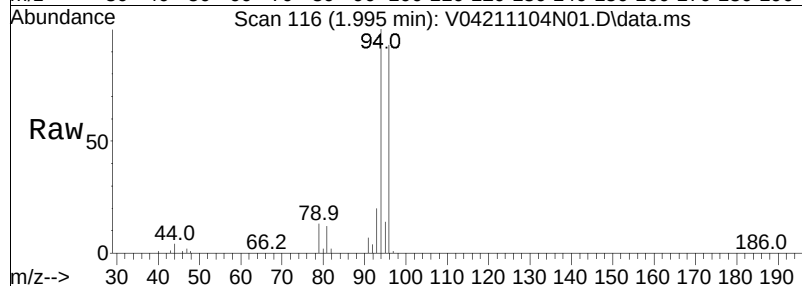
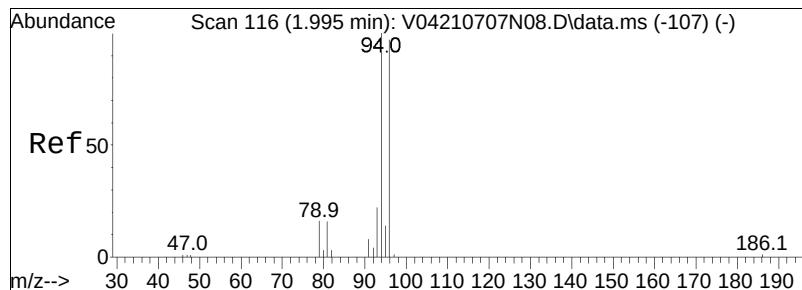




#4
 Vinyl chloride
 Concen: 50.58 ug/L
 RT: 1.722 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

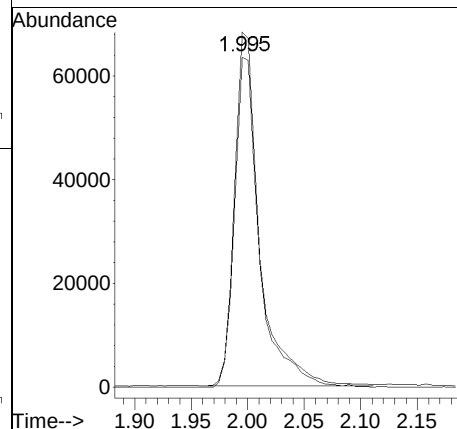
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.6	11.6	51.6

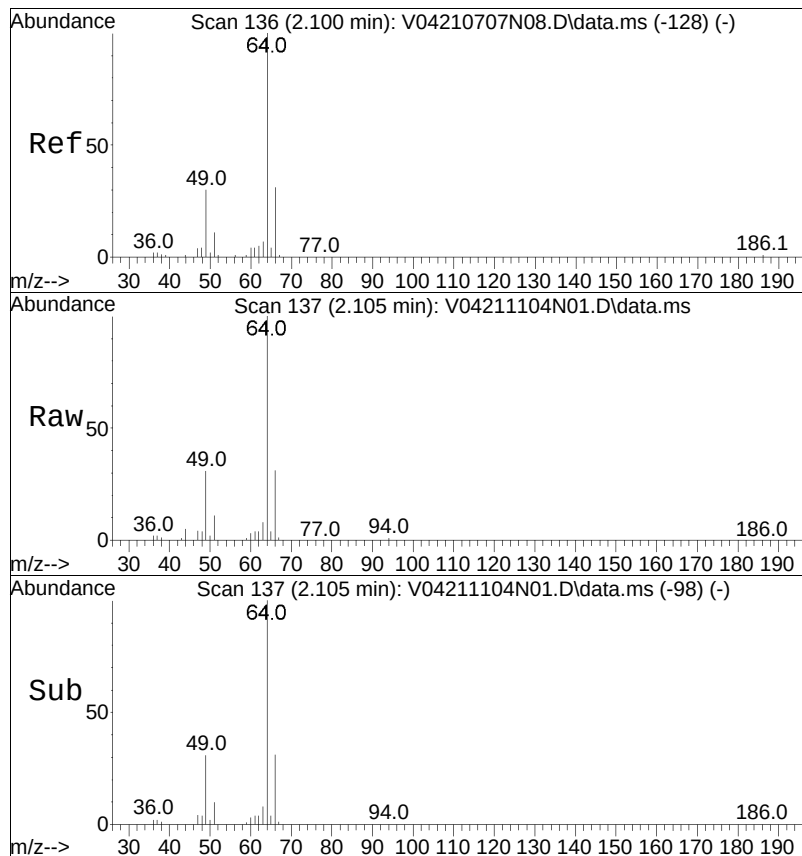




#5
 Bromomethane
 Concen: 55.56 ug/L
 RT: 1.995 min Scan# 116
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

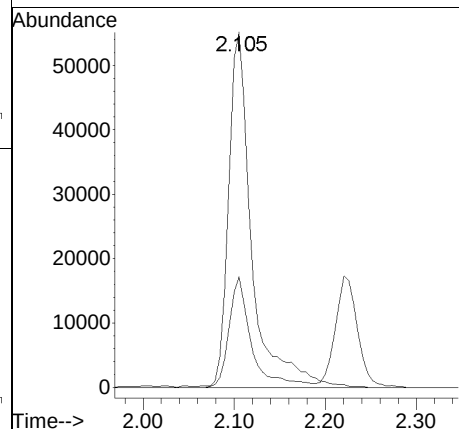
Tgt Ion	94	96	Ratio	100	Resp	105098
Ion	94	96	Ratio	100	Lower	Upper
	94	96	93.6	71.0	111.0	

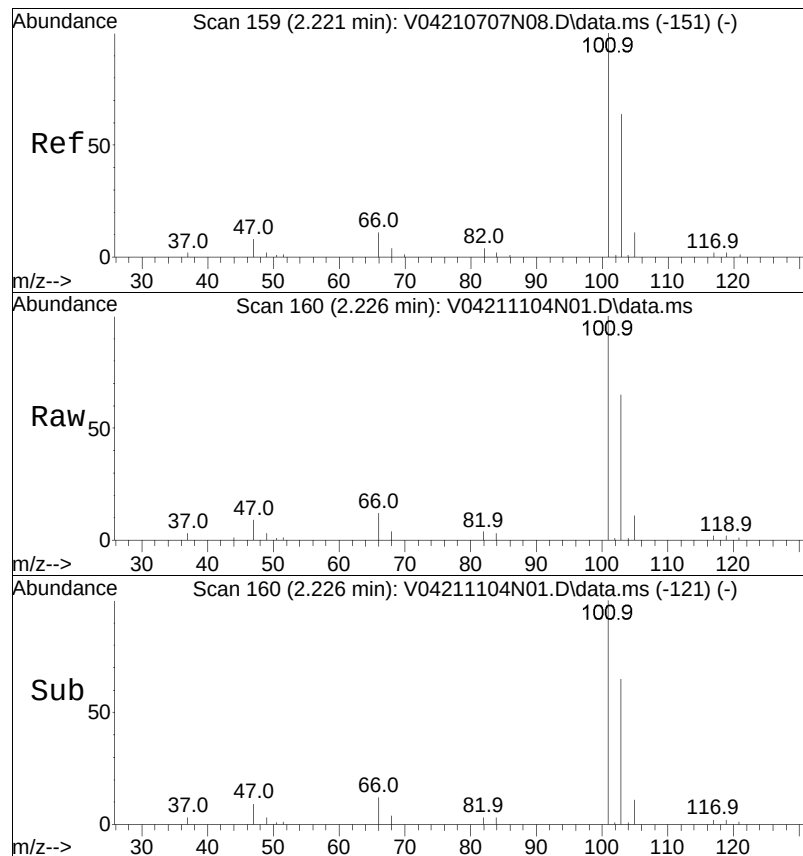




#6
 Chloroethane
 Concen: 55.58 ug/L
 RT: 2.105 min Scan# 137
 Delta R.T. 0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

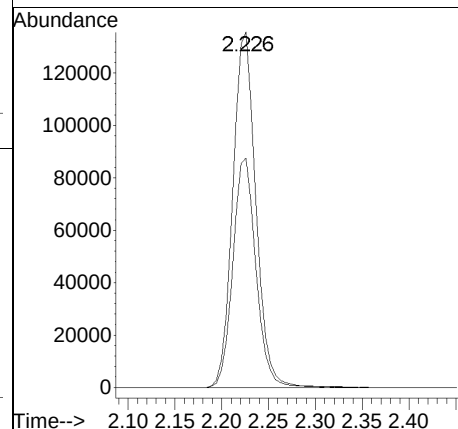
Tgt Ion	Ratio	Lower	Upper
64	100		
66	28.9	13.7	53.7

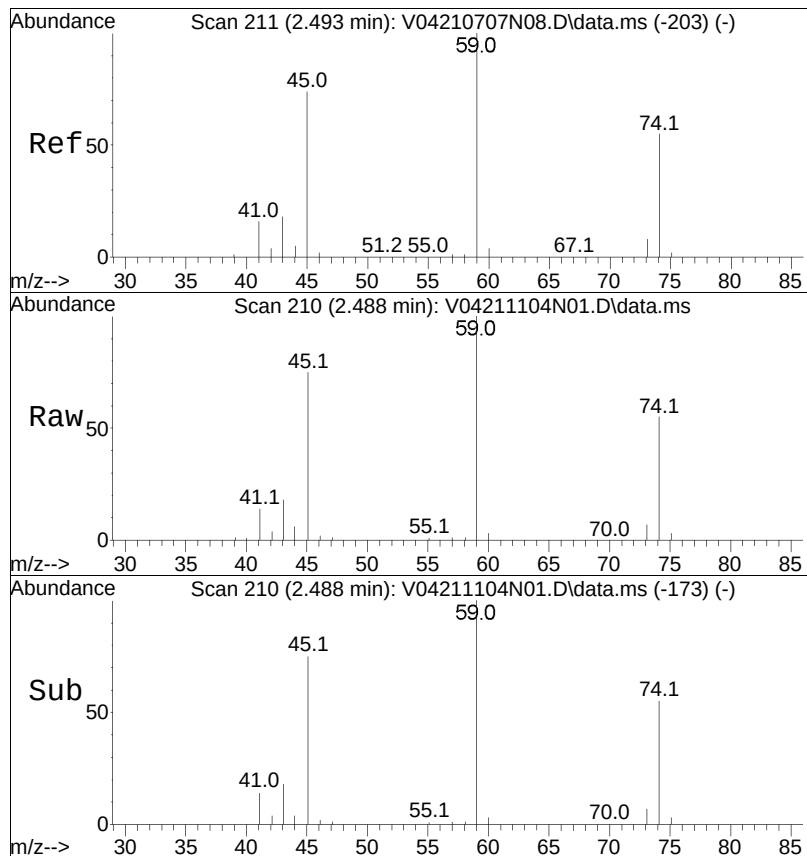




#7
 Trichlorofluoromethane
 Concen: 41.75 ug/L
 RT: 2.226 min Scan# 160
 Delta R.T. 0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

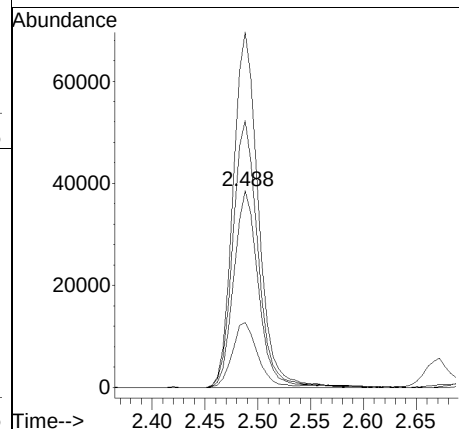
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	64.5	51.7	77.5

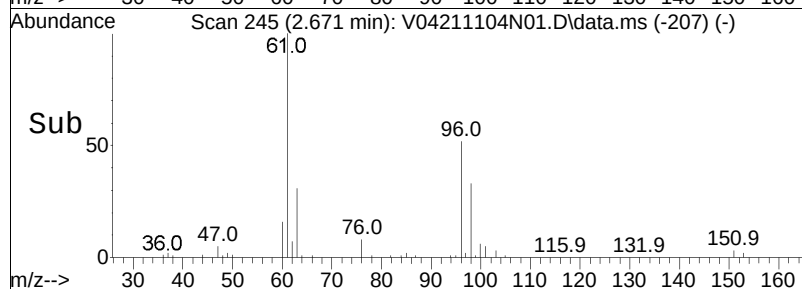
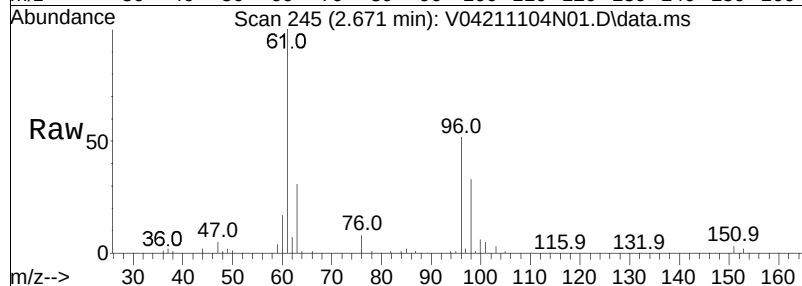
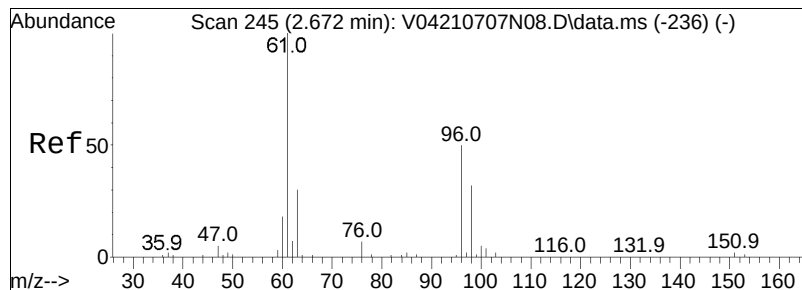




#8
 Ethyl ether
 Concen: 32.84 ug/L
 RT: 2.488 min Scan# 210
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

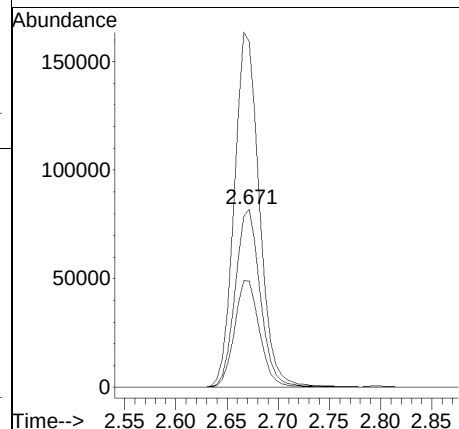
Tgt Ion:	74	Resp:	63288
Ion	Ratio	Lower	Upper
74	100		
59	183.8	104.7	217.4
45	136.8	77.2	160.4
43	33.5	21.2	44.0

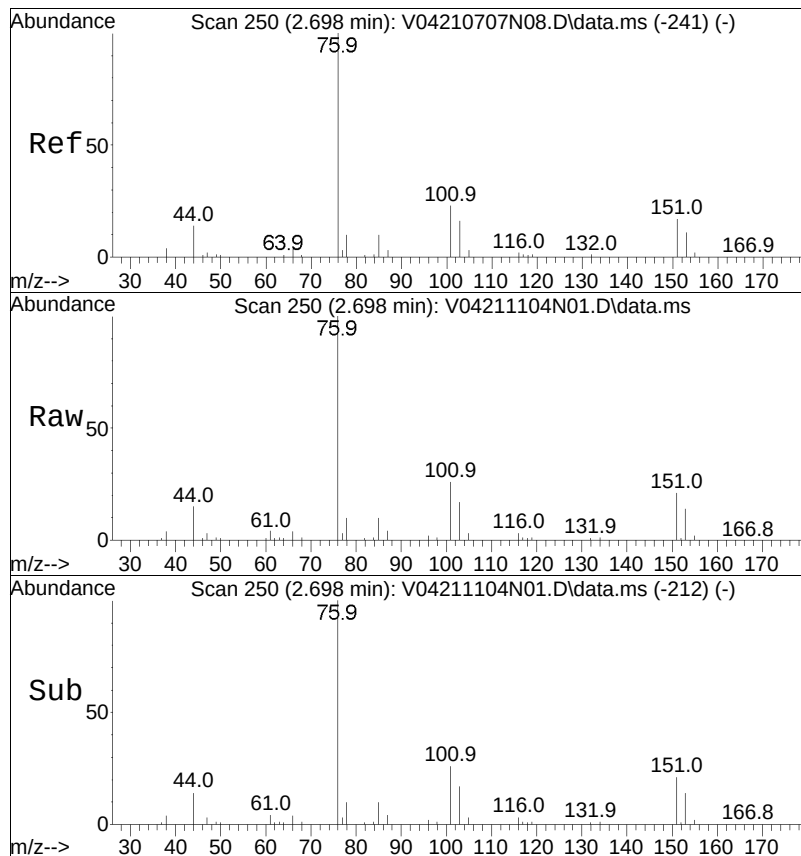




#10
 1,1-Dichloroethene
 Concen: 43.77 ug/L
 RT: 2.671 min Scan# 245
 Delta R.T. -0.001 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

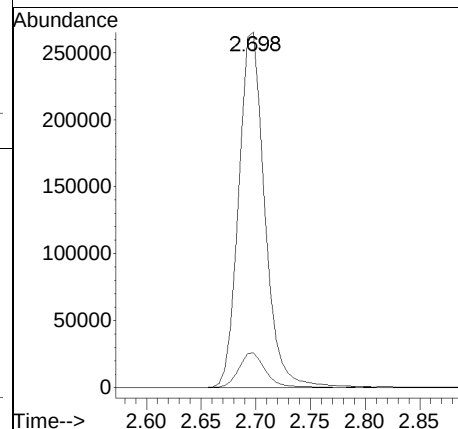
Tgt Ion:	96	Resp:	140426
Ion Ratio	Lower	Upper	
96	100		
61	198.8	145.8	218.6
63	60.2	46.6	69.8

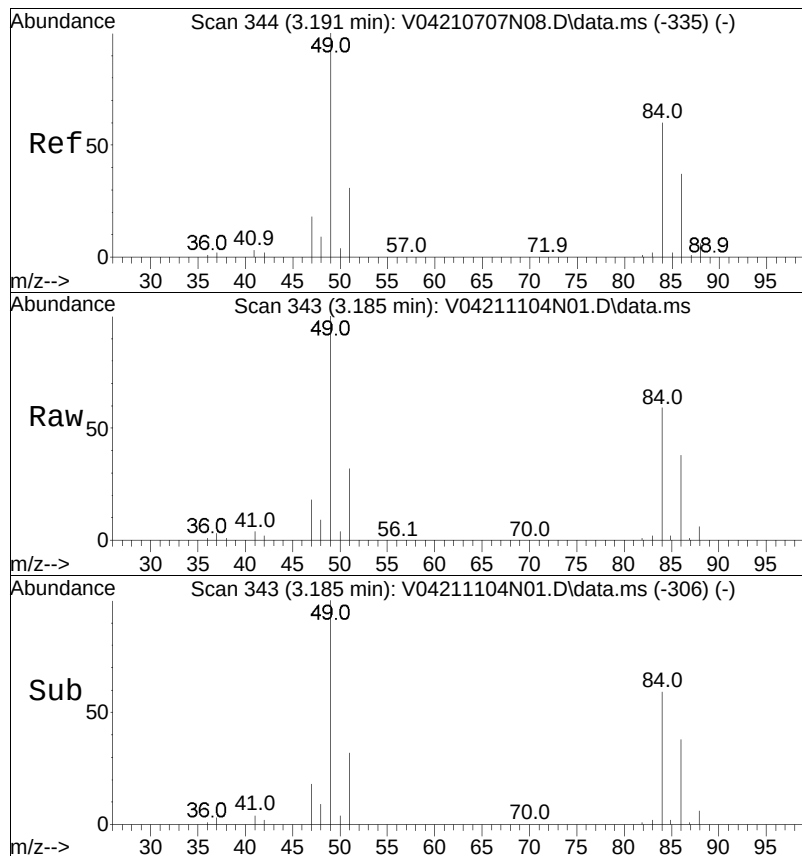




#11
 Carbon disulfide
 Concen: 37.02 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

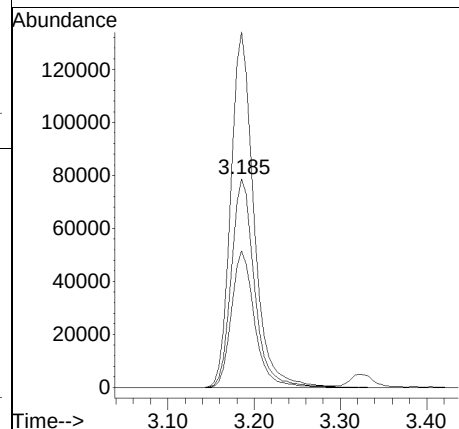
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.6	13.8

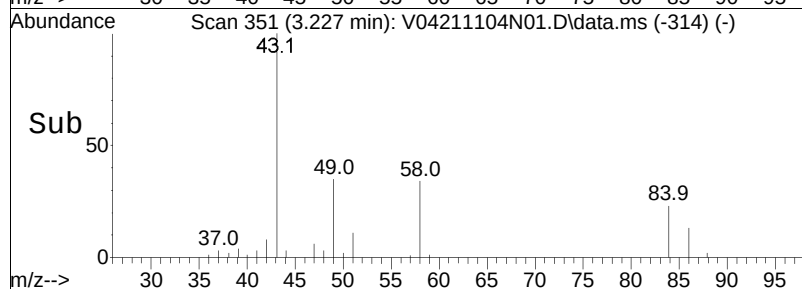
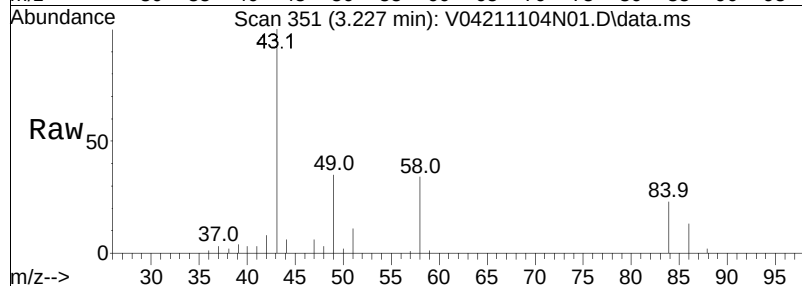
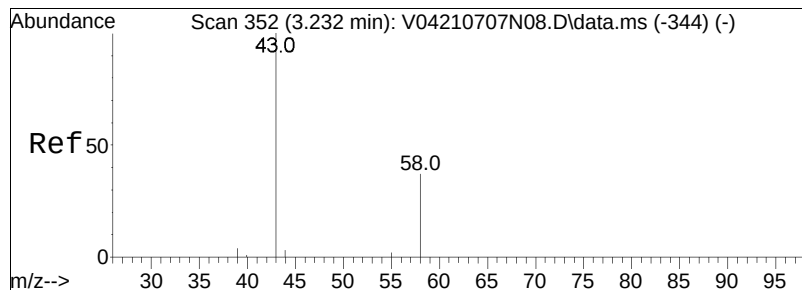




#15
Methylene chloride
Concen: 38.73 ug/L
RT: 3.185 min Scan# 343
Delta R.T. -0.006 min
Lab File: V04211104N01.D
Acq: 4 Nov 2021 5:59 pm

Tgt Ion:	84	Resp:	146986
Ion Ratio	Lower	Upper	
84	100		
86	65.4	41.3	85.9
49	169.5	91.0	189.0





#17

Acetone

Concen: 46.51 ug/L M4

RT: 3.227 min Scan# 351

Delta R.T. -0.005 min

Lab File: V04211104N01.D

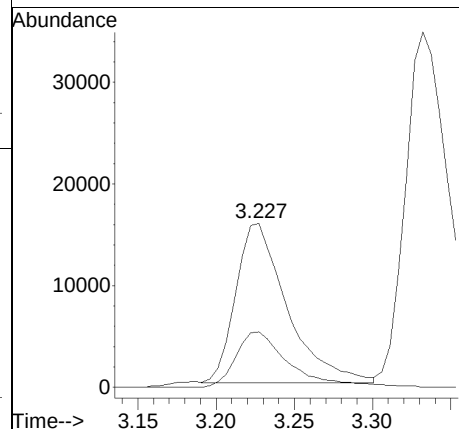
Acq: 4 Nov 2021 5:59 pm

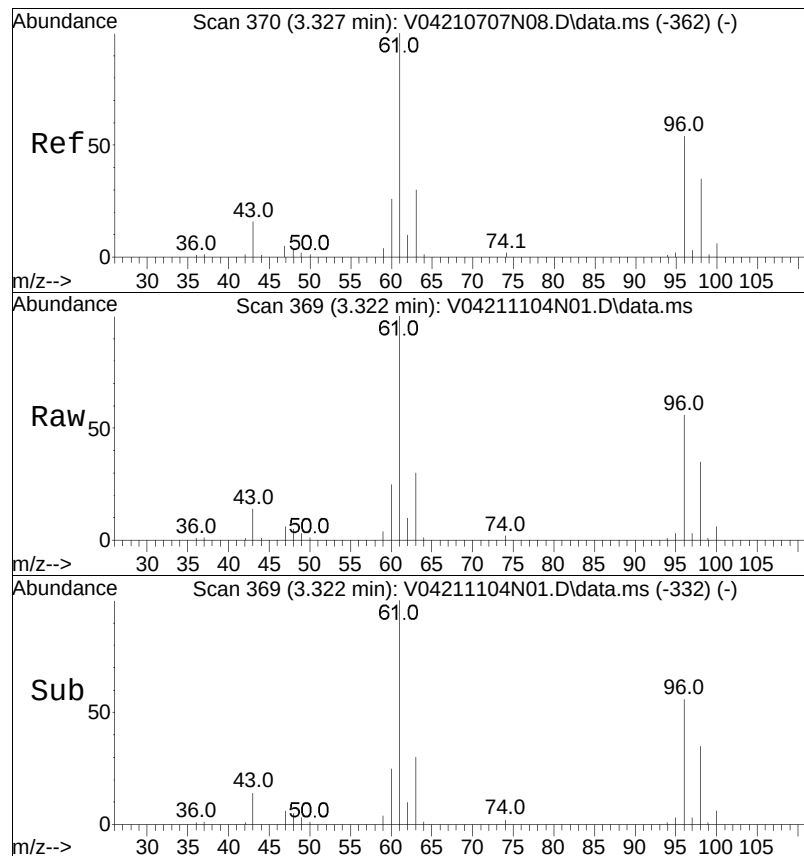
Tgt Ion: 43 Resp: 35851

Ion Ratio Lower Upper

43 100

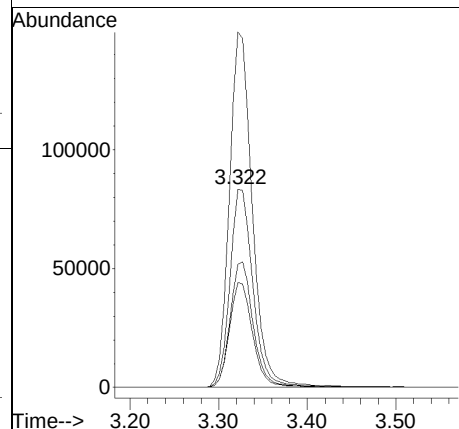
58 36.7 23.2 34.8#

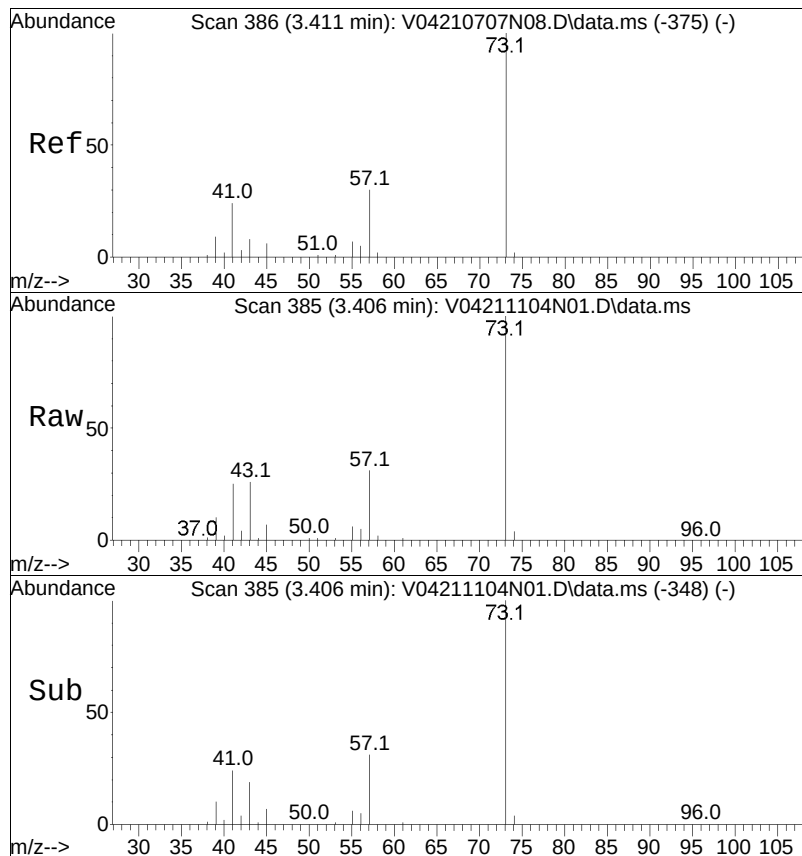




#18
 trans-1,2-Dichloroethene
 Concen: 41.70 ug/L
 RT: 3.322 min Scan# 369
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

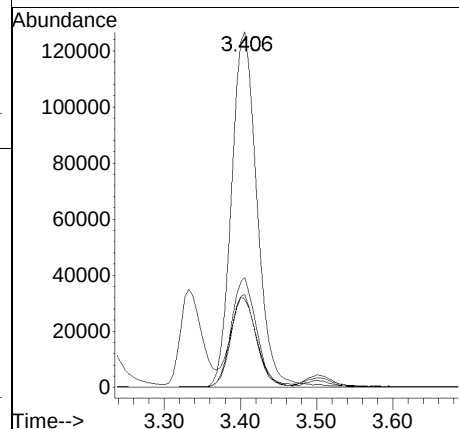
Tgt Ion: 96	Resp: 151366
Ion Ratio	Lower Upper
96 100	
61 178.4	103.7 215.3
98 63.4	41.0 85.0
63 53.0	32.1 66.7

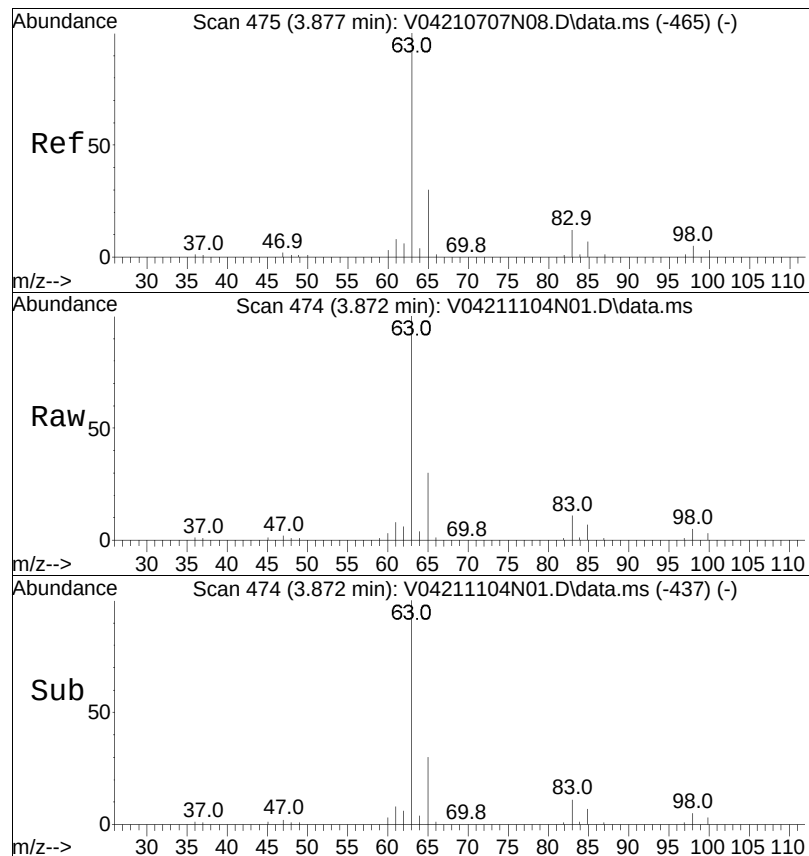




#20
Methyl tert-butyl ether
Concen: 31.96 ug/L
RT: 3.406 min Scan# 385
Delta R.T. -0.006 min
Lab File: V04211104N01.D
Acq: 4 Nov 2021 5:59 pm

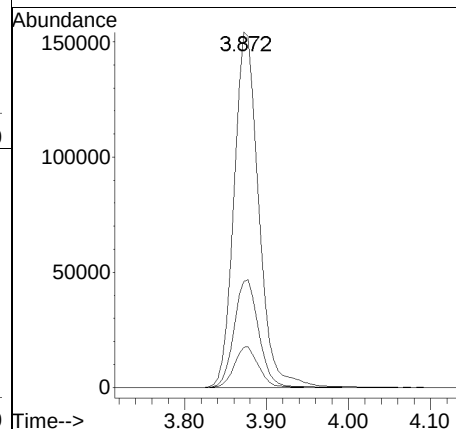
Tgt Ion: 73	Resp: 297048
Ion Ratio	Lower Upper
73 100	
57 30.3	16.3 33.9
43 25.7	14.7 30.5
41 24.8	15.4 32.0

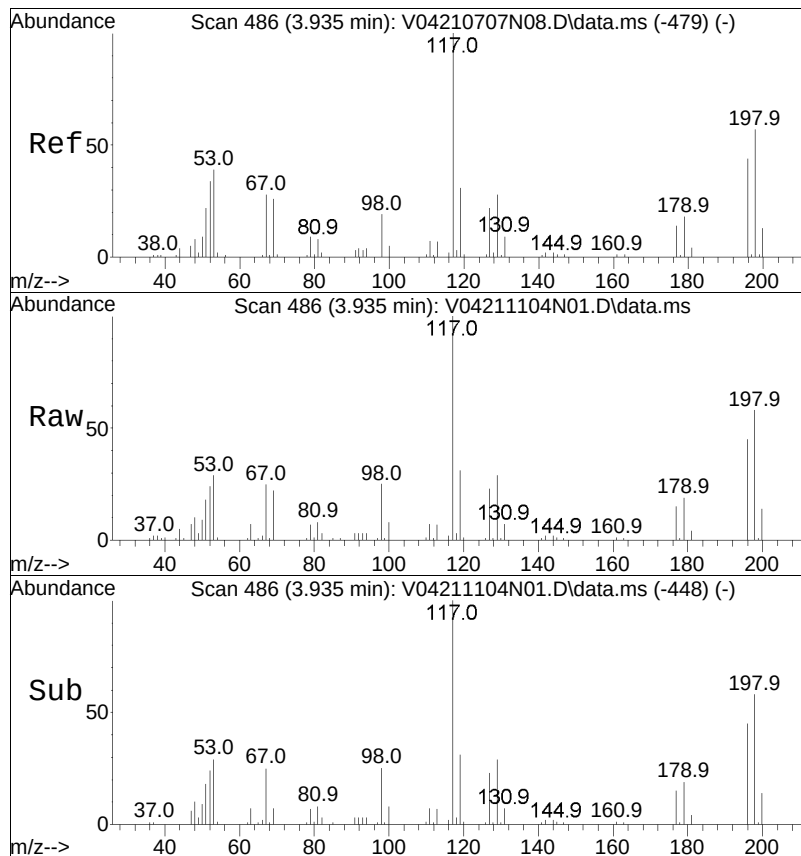




#23
 1,1-Dichloroethane
 Concen: 39.68 ug/L
 RT: 3.872 min Scan# 474
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

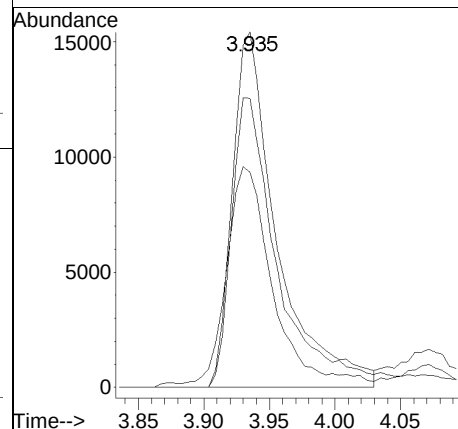
Tgt Ion:	63	Resp:	323828
Ion Ratio	Lower	Upper	
63	100		
65	30.1	10.4	50.4
83	11.1	0.0	32.2

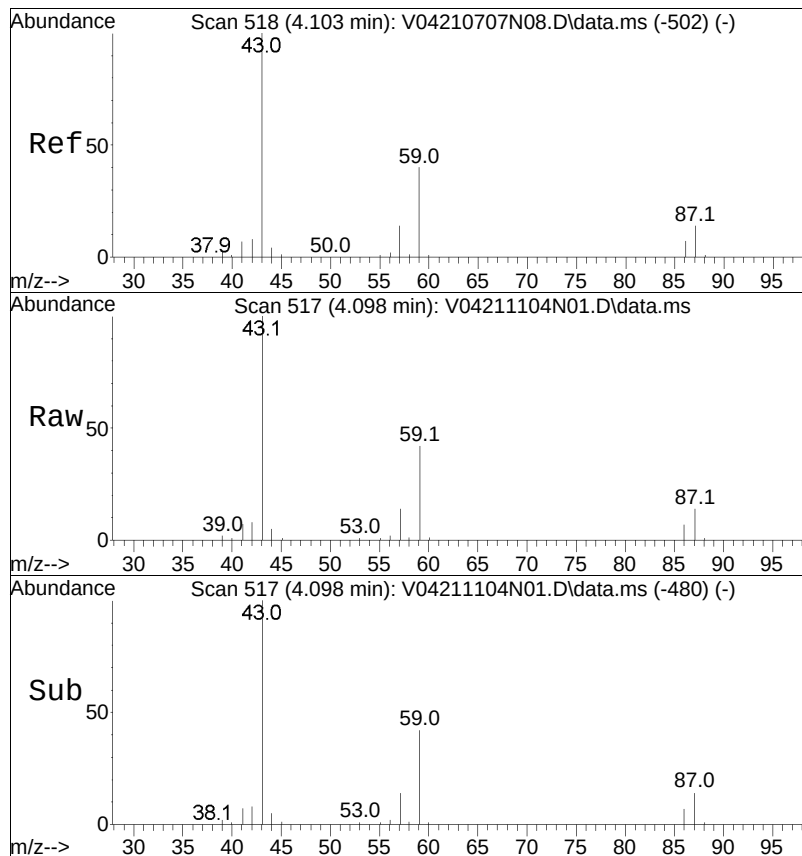




#25
 Acrylonitrile
 Concen: 29.87 ug/L
 RT: 3.935 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion	Ratio	Lower	Upper
53	100		
52	85.0	65.9	98.9
51	65.5	46.2	69.4





#27

Vinyl acetate

Concen: 33.40 ug/L

RT: 4.098 min Scan# 517

Delta R.T. -0.005 min

Lab File: V04211104N01.D

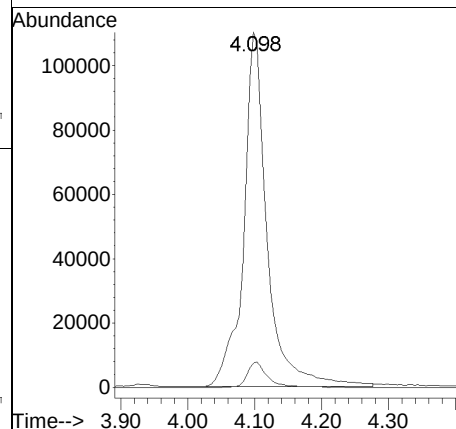
Acq: 4 Nov 2021 5:59 pm

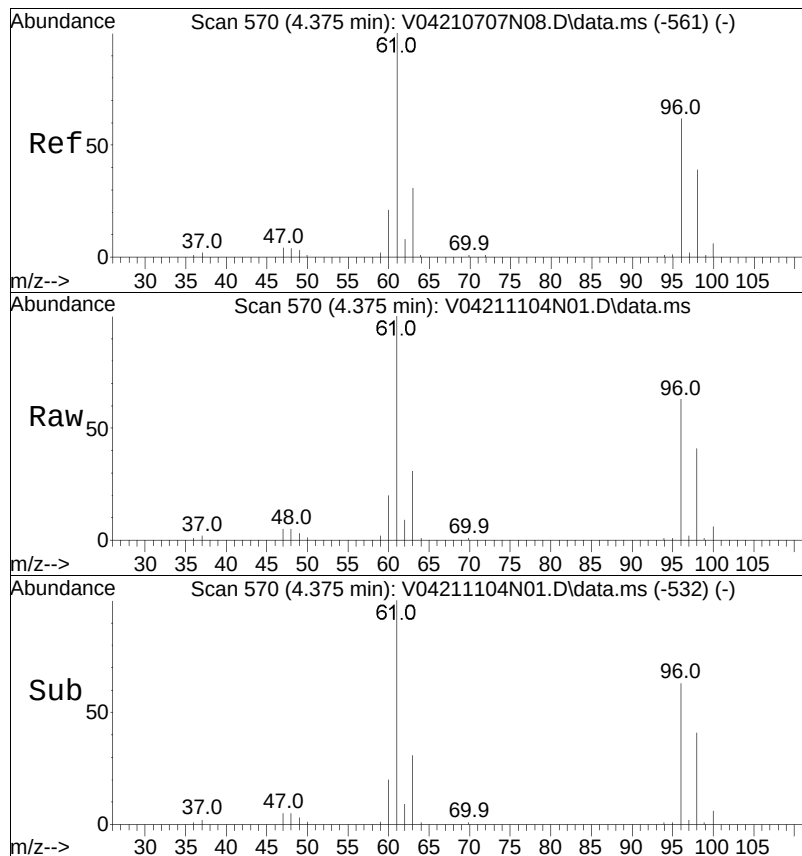
Tgt Ion: 43 Resp: 270659

Ion Ratio Lower Upper

43 100

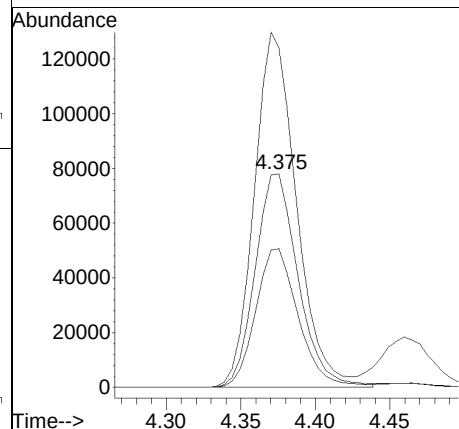
86 6.2 5.4 8.2

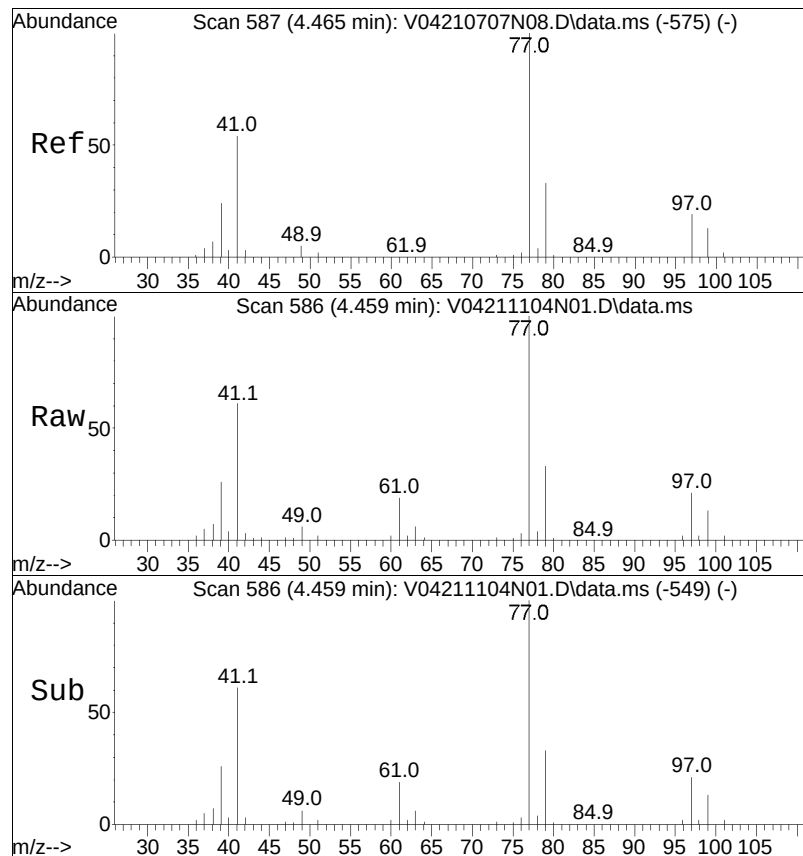




#28
 cis-1,2-Dichloroethene
 Concen: 38.55 ug/L
 RT: 4.375 min Scan# 570
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

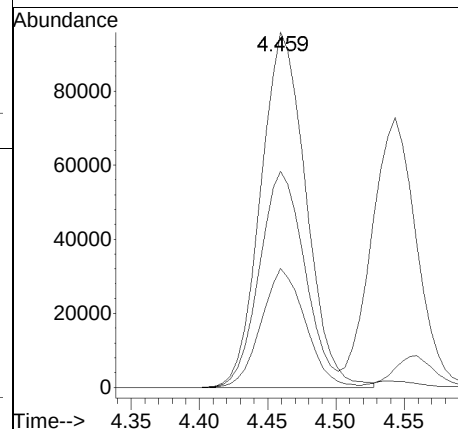
Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.7	114.4	171.6
98	64.3	51.3	76.9

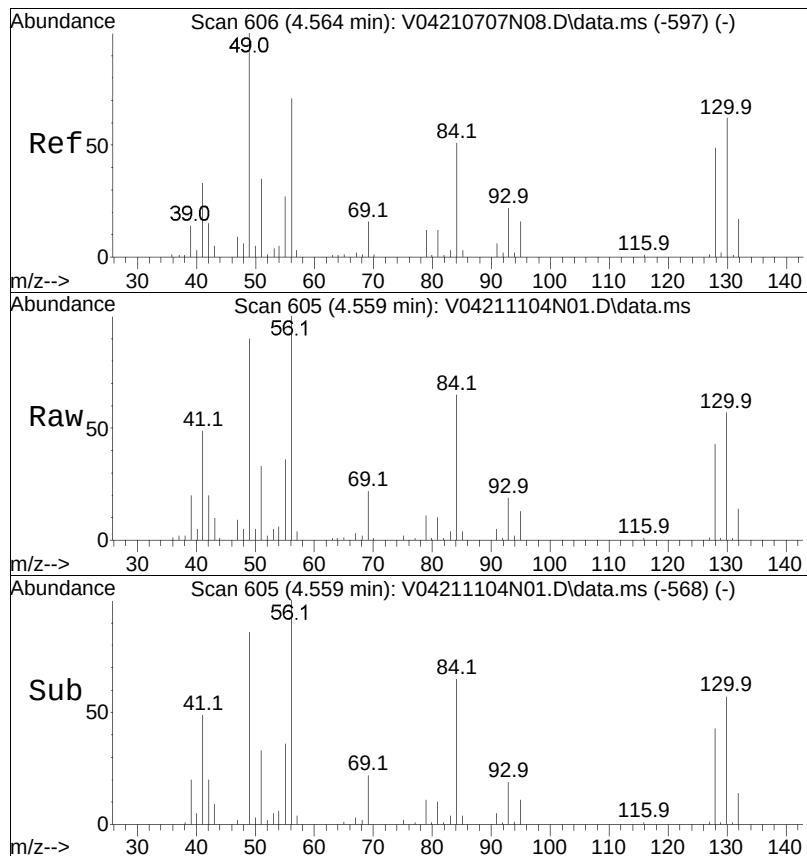




#29
 2,2-Dichloropropane
 Concen: 38.38 ug/L
 RT: 4.459 min Scan# 586
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

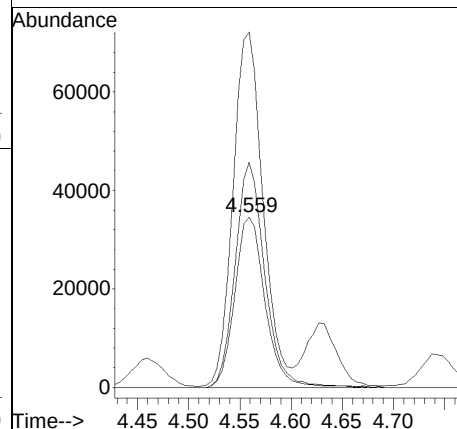
Tgt Ion	Ratio	Lower	Upper
77	100		
41	61.1	36.7	76.3
79	32.6	21.1	43.9

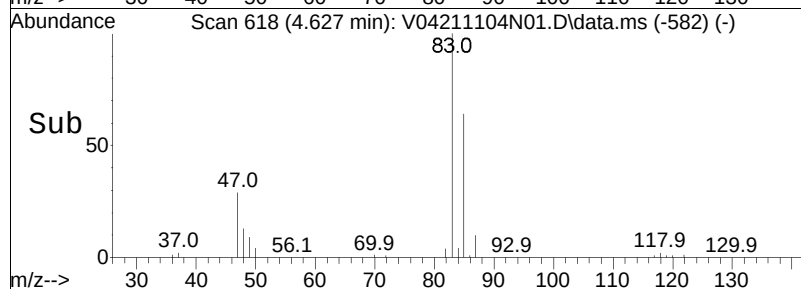
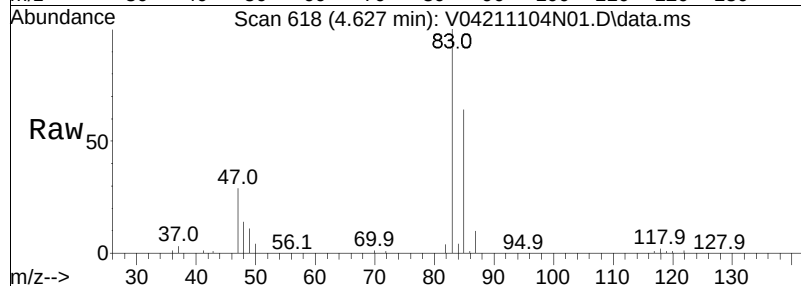
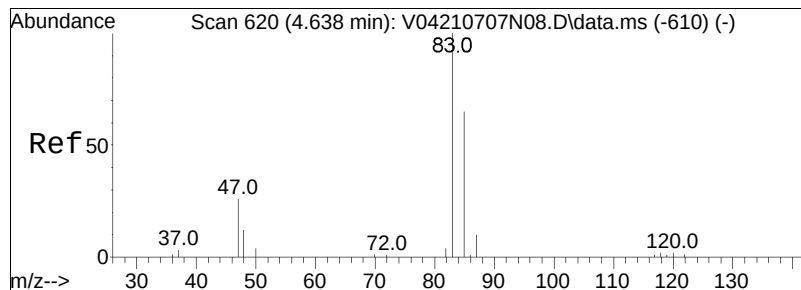




#30
 Bromochloromethane
 Concen: 38.09 ug/L
 RT: 4.559 min Scan# 605
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt	Ion:128	Resp:	71374
Ion	Ratio	Lower	Upper
128	100		
49	204.6	136.8	205.2
130	129.1	102.6	153.8





#32

Chloroform

Concen: 35.22 ug/L

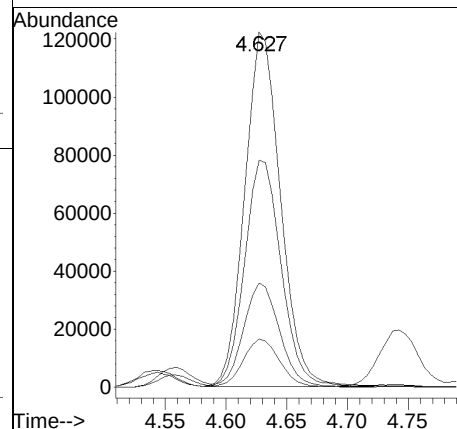
RT: 4.627 min Scan# 618

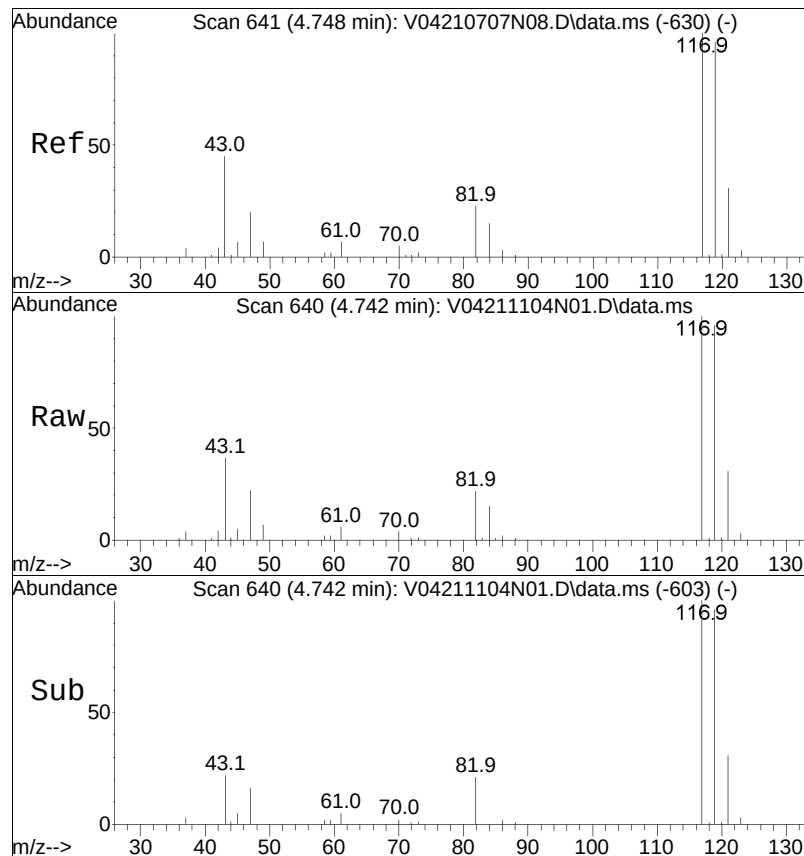
Delta R.T. -0.011 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

Tgt	Ion: 83	Resp:	251044
Ion	Ratio	Lower	Upper
83	100		
85	65.2	41.9	87.1
47	28.8	16.7	34.7
48	14.1	7.9	16.3





#34

Carbon tetrachloride

Concen: 38.12 ug/L

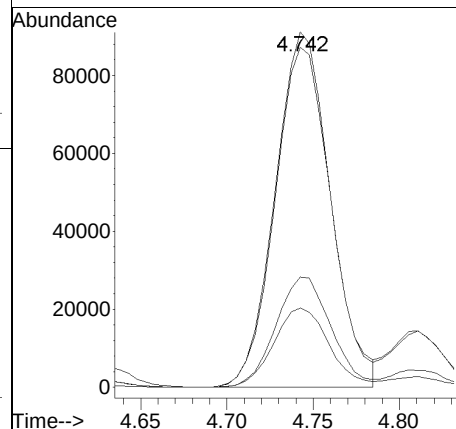
RT: 4.742 min Scan# 640

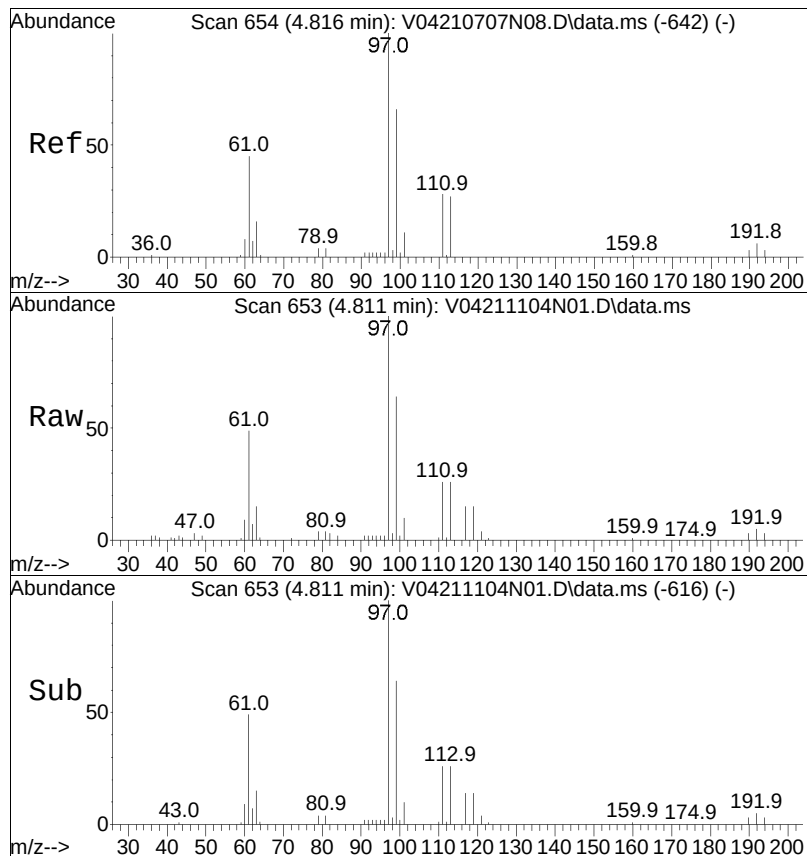
Delta R.T. -0.006 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

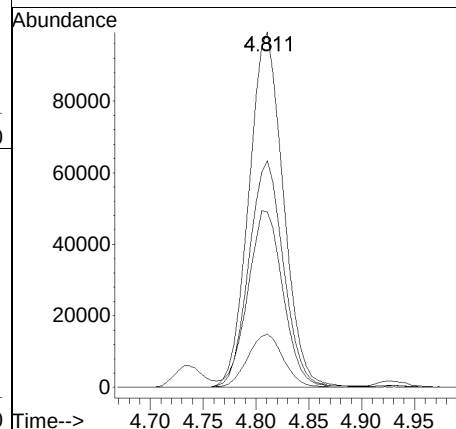
Tgt	Ion:117	Resp:	202763
Ion	Ratio	Lower	Upper
117	100		
119	97.0	62.9	130.7
121	31.2	20.2	42.0
82	22.6	14.9	30.9

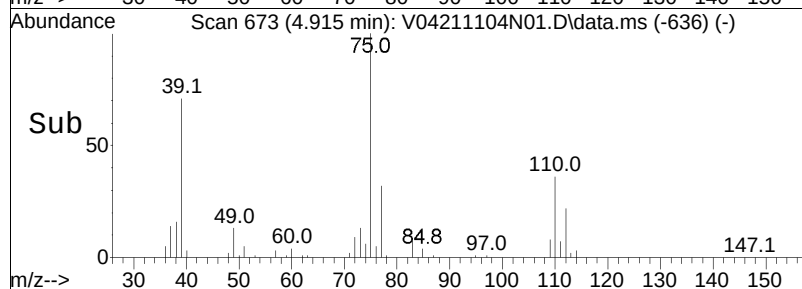
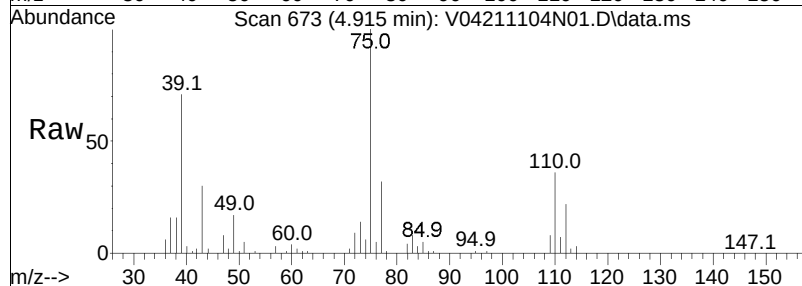
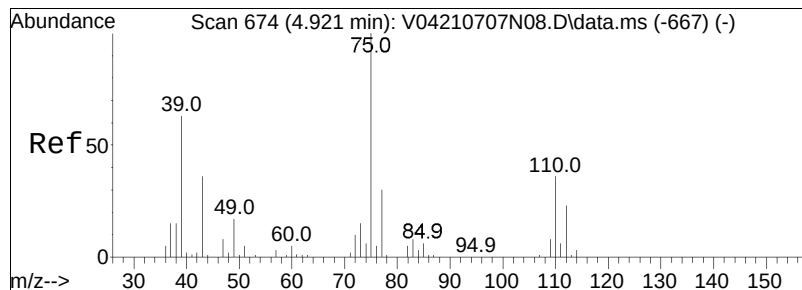




#37
 1,1,1-Trichloroethane
 Concen: 39.96 ug/L
 RT: 4.811 min Scan# 653
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion: 97	Resp: 225805
Ion Ratio	Lower Upper
97 100	
99 64.2	41.7 86.7
61 51.0	30.9 64.3
63 15.5	9.6 20.0





#39

2-Butanone

Concen: 34.72 ug/L M1

RT: 4.915 min Scan# 673

Delta R.T. -0.006 min

Lab File: V04211104N01.D

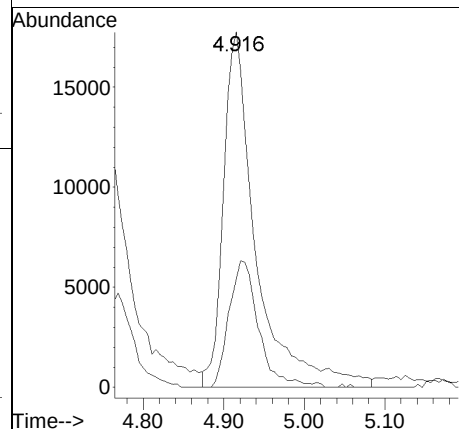
Acq: 4 Nov 2021 5:59 pm

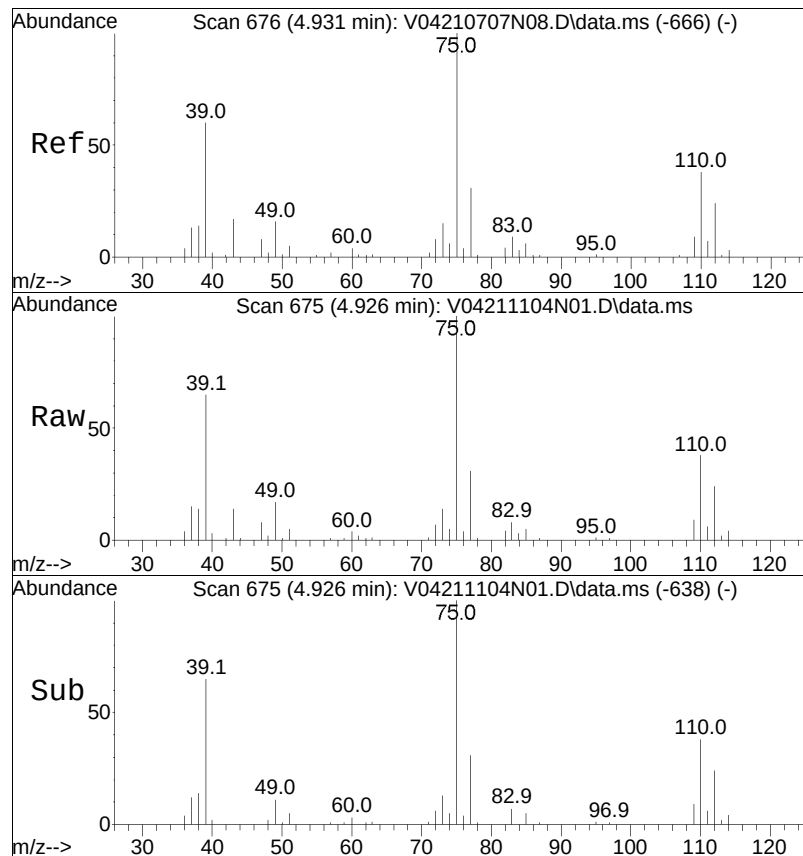
Tgt Ion: 43 Resp: 50068

Ion Ratio Lower Upper

43 100

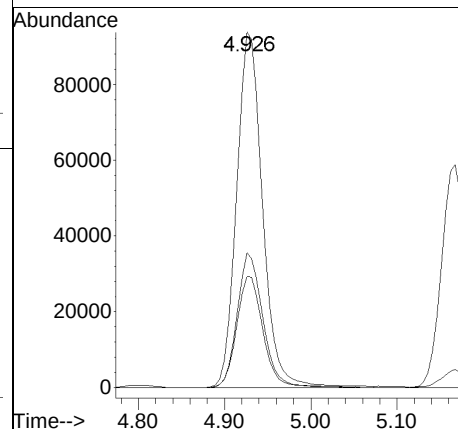
72 32.5 25.8 38.8

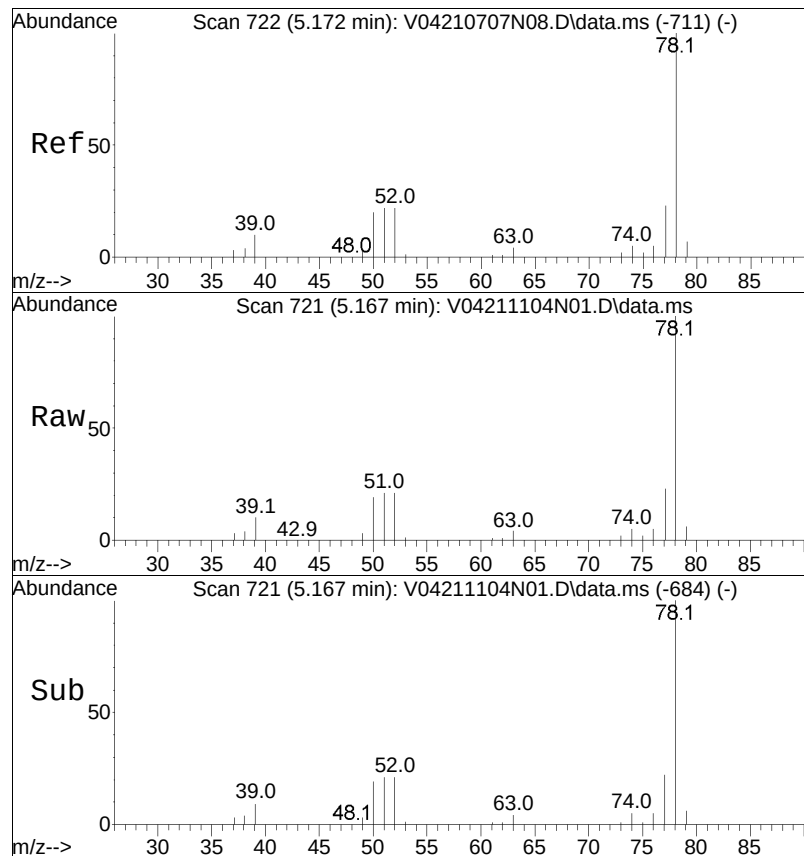




#40
 1,1-Dichloropropene
 Concen: 42.66 ug/L
 RT: 4.926 min Scan# 675
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

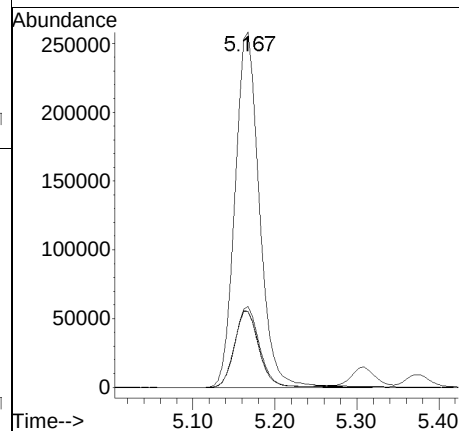
Tgt Ion:	75	Resp:	196209
Ion Ratio	Lower	Upper	
75	100		
110	37.4	24.4	50.6
77	31.3	20.0	41.6

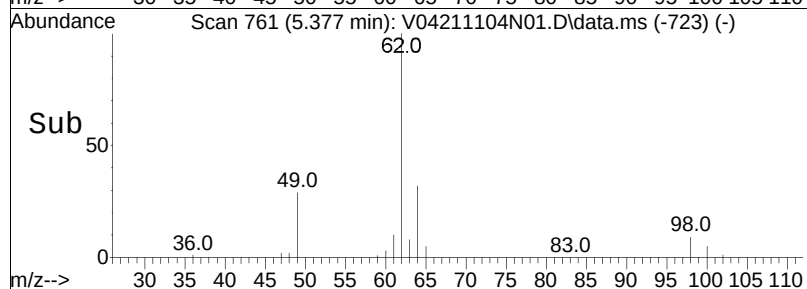
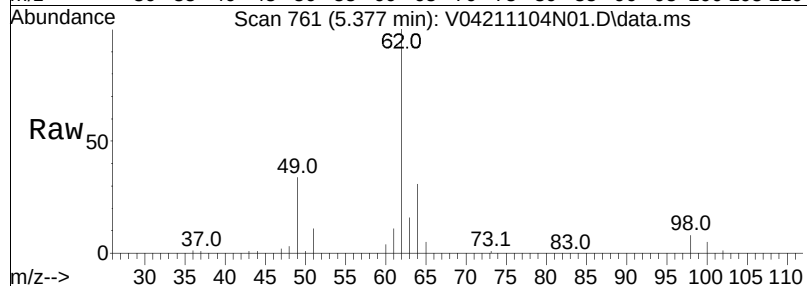
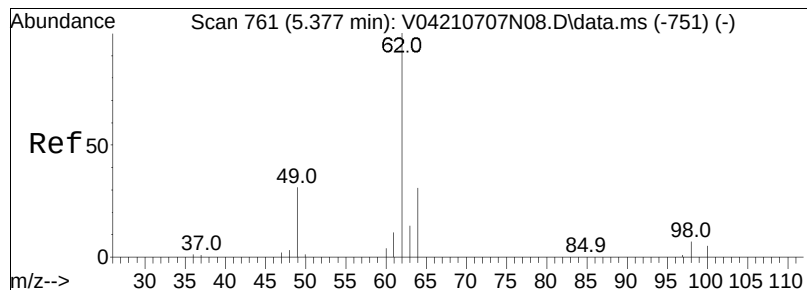




#41
Benzene
Concen: 39.63 ug/L
RT: 5.167 min Scan# 721
Delta R.T. -0.005 min
Lab File: V04211104N01.D
Acq: 4 Nov 2021 5:59 pm

Tgt	Ion: 78	Resp: 535422
Ion	Ratio	Lower Upper
78	100	
77	22.8	15.1 31.3
51	21.5	12.2 25.4
52	21.8	11.9 24.7





#44

1,2-Dichloroethane

Concen: 33.92 ug/L

RT: 5.377 min Scan# 761

Delta R.T. -0.000 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

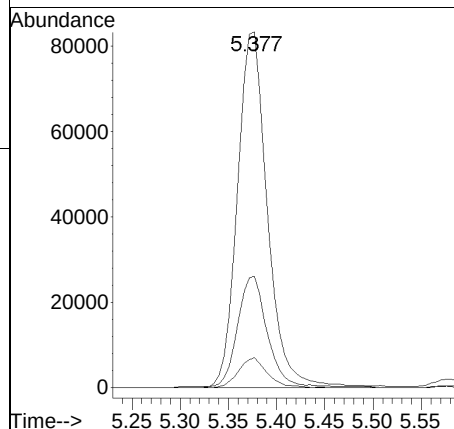
Tgt Ion: 62 Resp: 180035

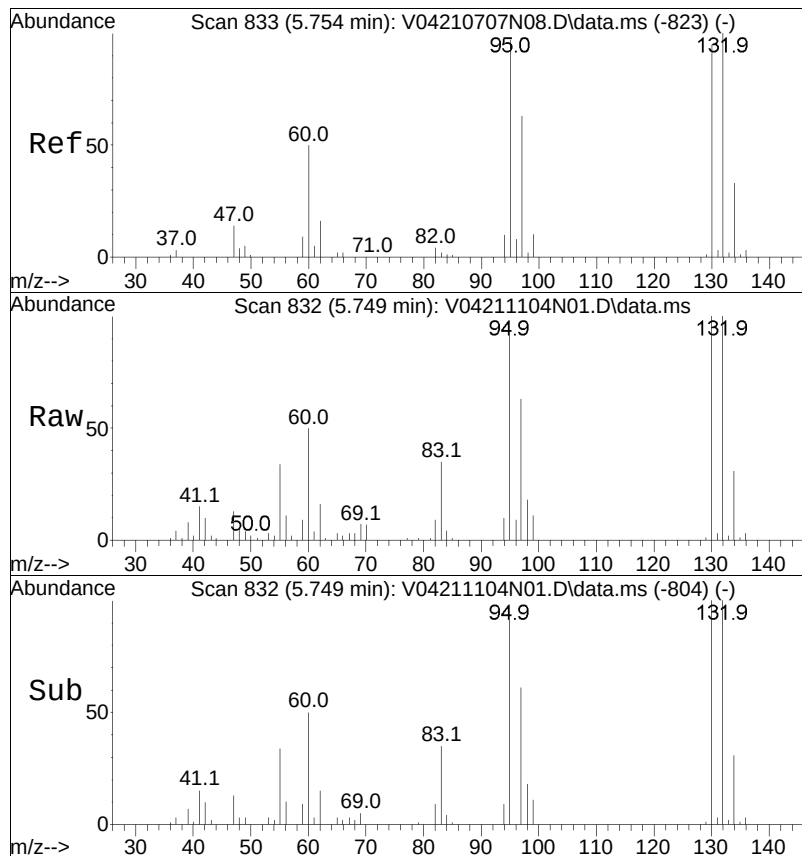
Ion Ratio Lower Upper

62 100

64 30.2 11.3 51.3

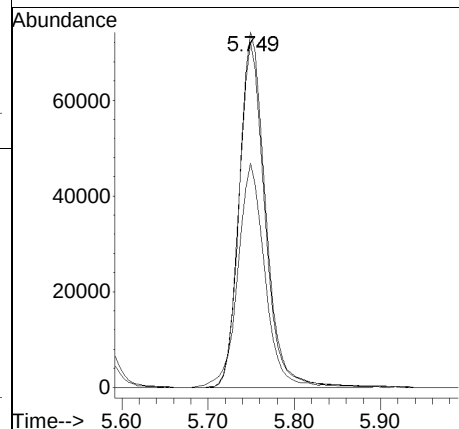
98 7.9 0.0 27.5

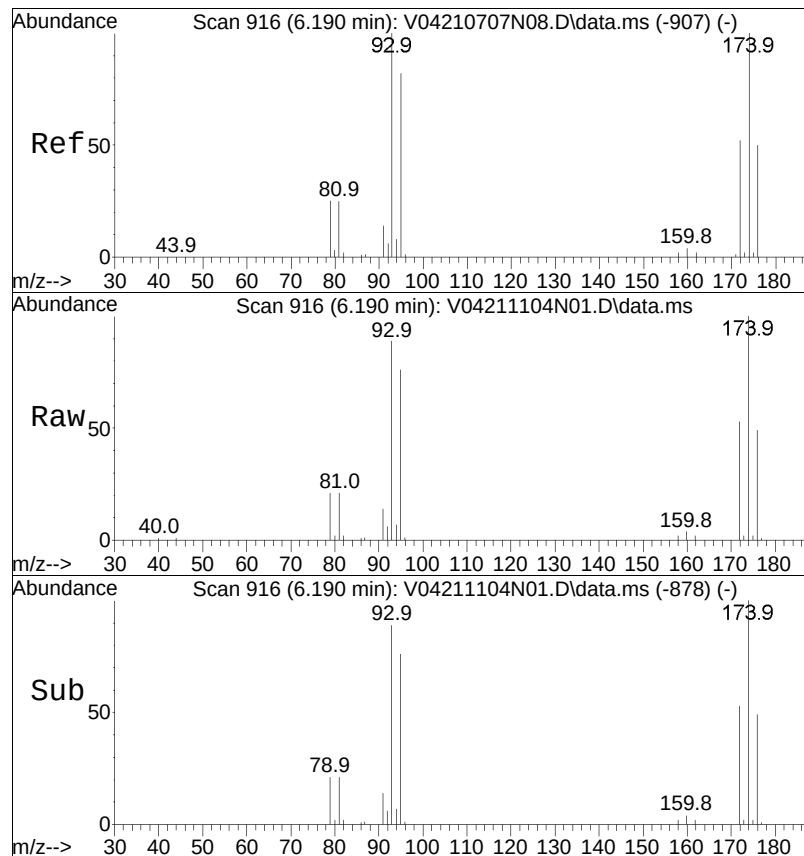




#48
 Trichloroethene
 Concen: 40.45 ug/L
 RT: 5.749 min Scan# 832
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

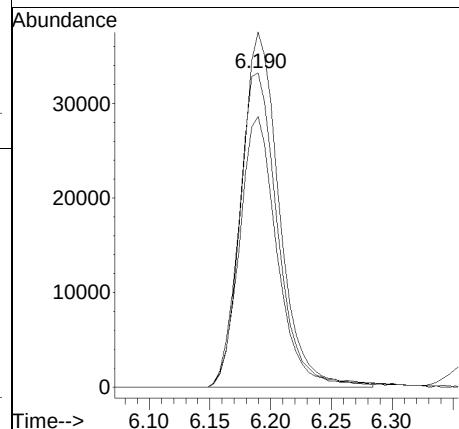
Tgt Ion:	95	Resp:	150424
Ion Ratio	Lower	Upper	
95	100		
97	67.9	53.9	80.9
130	104.6	83.1	124.7

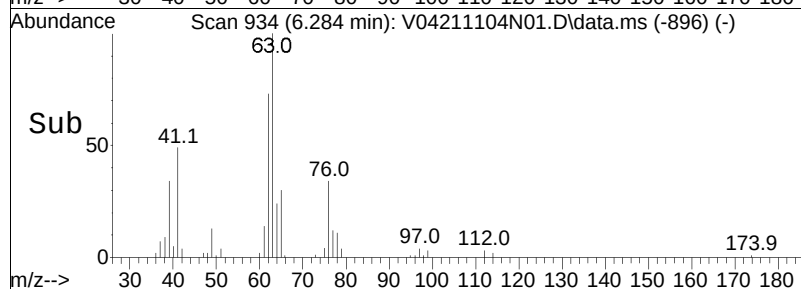
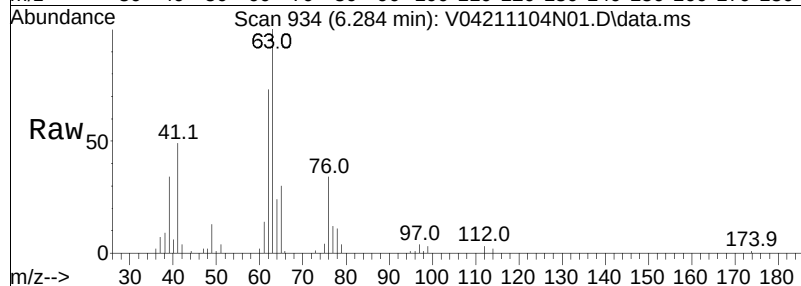
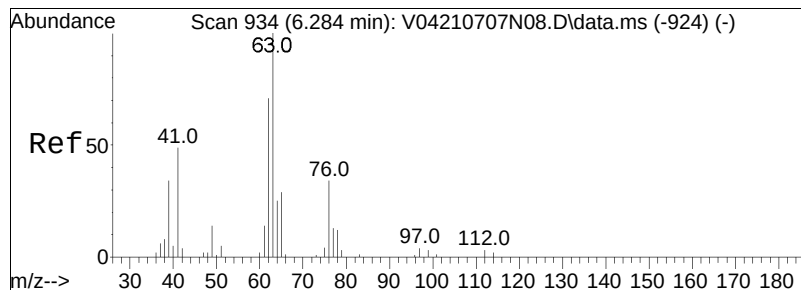




#50
 Dibromomethane
 Concen: 33.86 ug/L
 RT: 6.190 min Scan# 916
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt	Ion	Resp	Lower	Upper
93	100			
95	84.9	66.3	99.5	
174	112.2	87.4	131.0	





#51

1,2-Dichloropropane

Concen: 37.56 ug/L

RT: 6.284 min Scan# 934

Delta R.T. -0.000 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

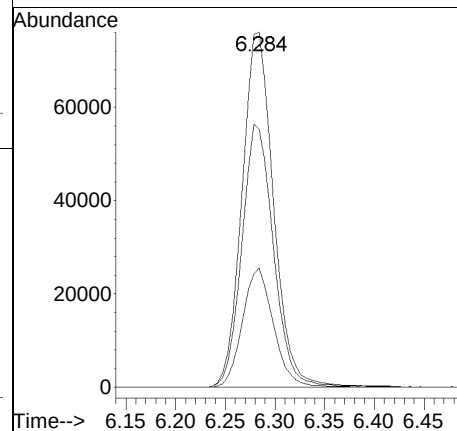
Tgt Ion: 63 Resp: 168765

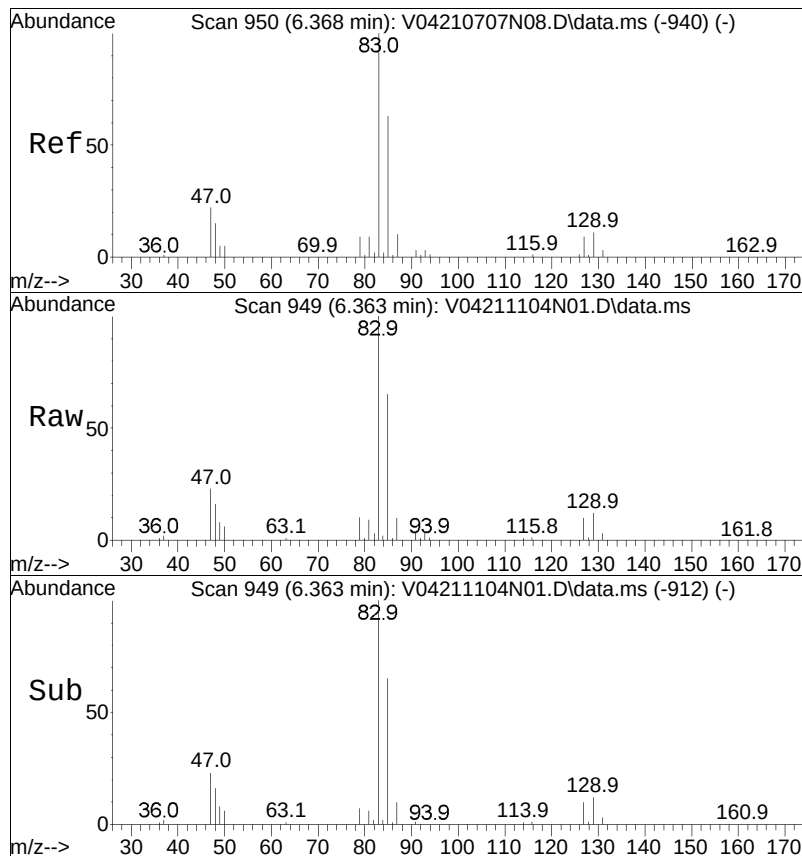
Ion Ratio Lower Upper

63 100

62 74.4 58.2 87.2

76 33.1 31.4 47.2





#54

Bromodichloromethane

Concen: 35.47 ug/L

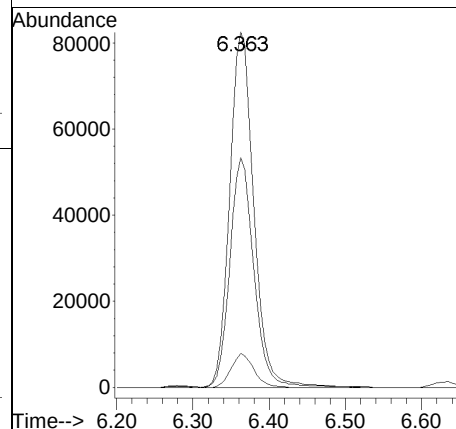
RT: 6.363 min Scan# 949

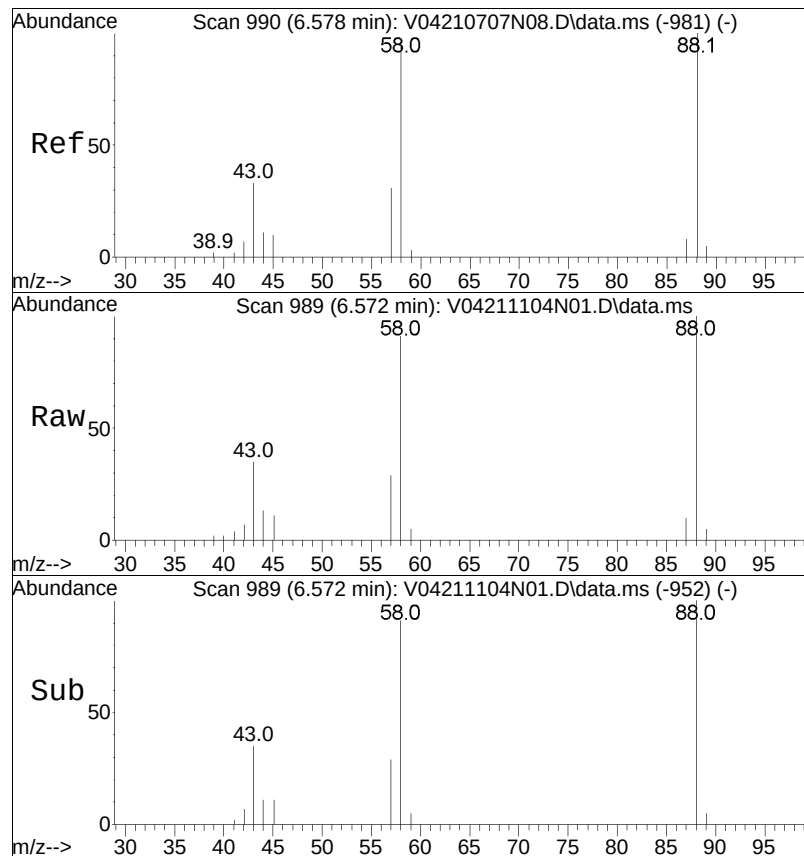
Delta R.T. -0.005 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

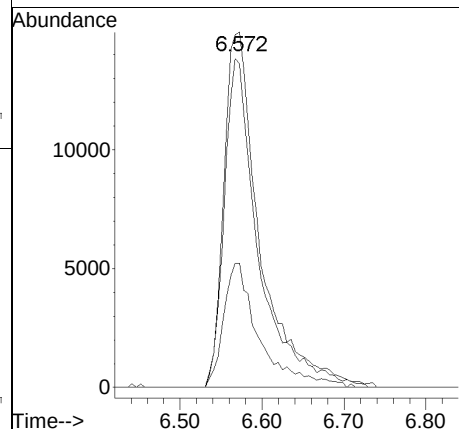
Tgt	Ion: 83	Resp:	181548
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.2	76.8
127	9.0	7.3	10.9

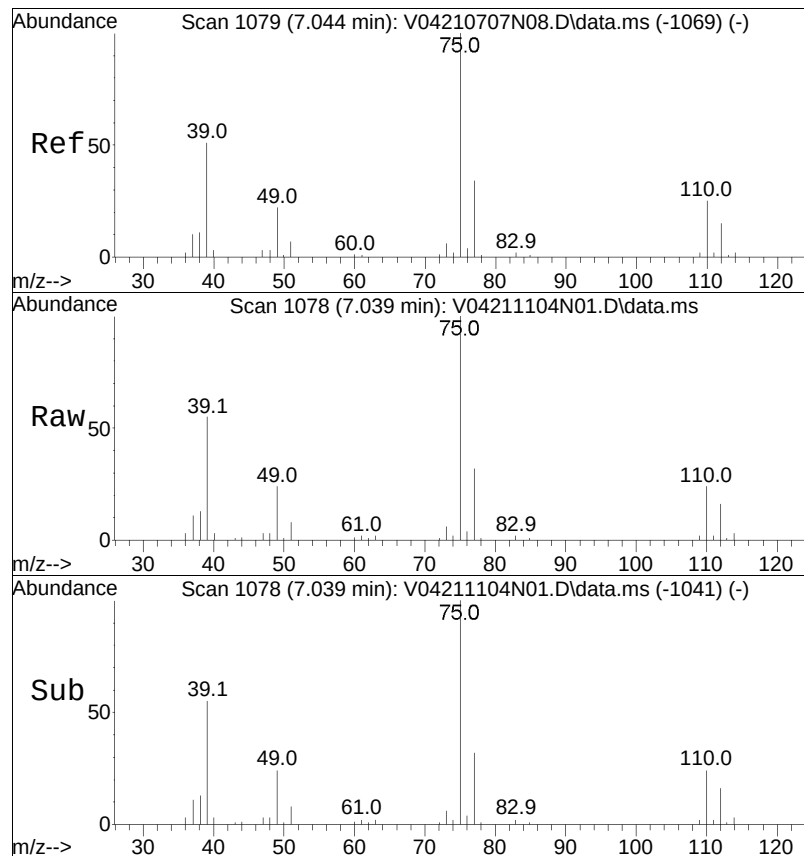




#57
 1,4-Dioxane
 Concen: 1564.50 ug/L
 RT: 6.572 min Scan# 989
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

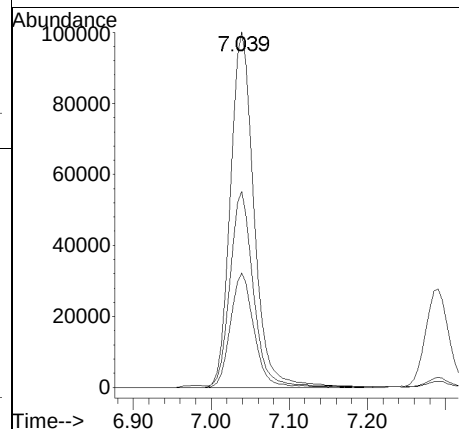
Tgt Ion:	88	Resp:	45997
Ion Ratio	Lower	Upper	
88	100		
58	88.1	57.1	85.7#
43	34.7	22.9	34.3#

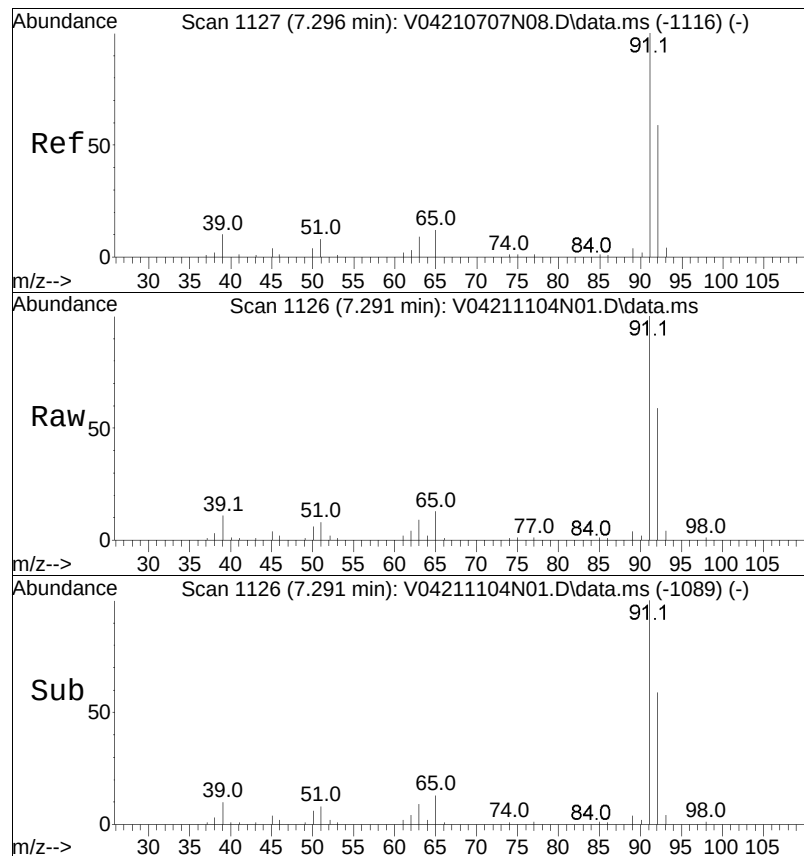




#58
 cis-1,3-Dichloropropene
 Concen: 38.23 ug/L
 RT: 7.039 min Scan# 1078
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

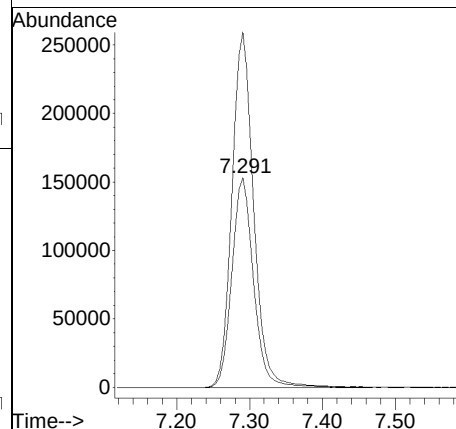
Tgt Ion:	75	Resp:	211003
Ion Ratio	Lower	Upper	
75	100		
77	32.1	25.3	37.9
39	53.8	40.2	60.2

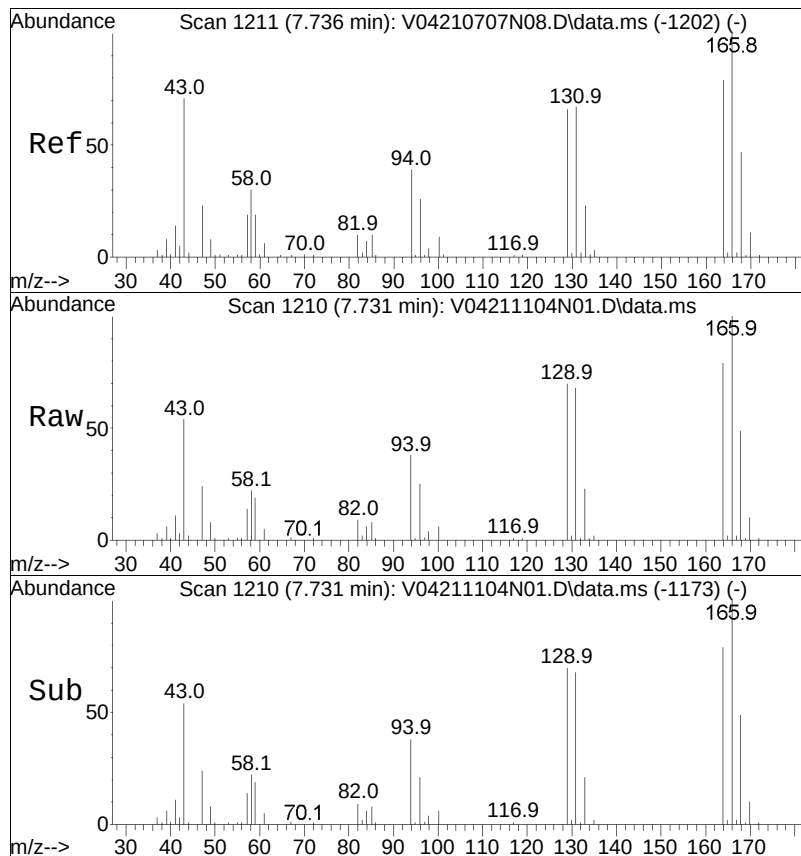




#61
 Toluene
 Concen: 40.51 ug/L
 RT: 7.291 min Scan# 1126
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

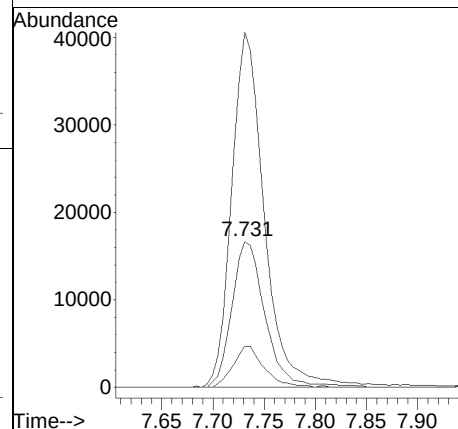
Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.1	135.8	203.6

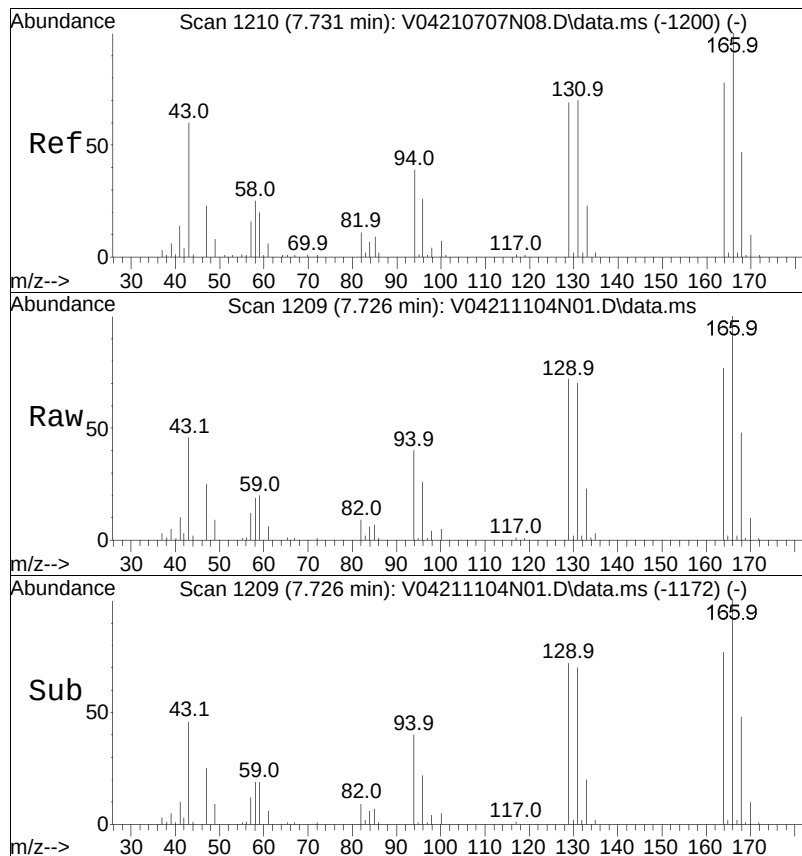




#62
 4-Methyl-2-pentanone
 Concen: 32.87 ug/L
 RT: 7.731 min Scan# 1210
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

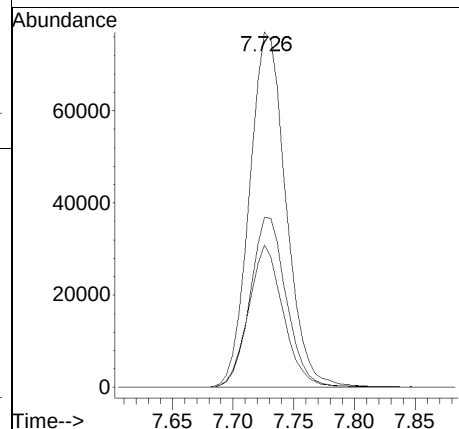
Tgt Ion:	58	Resp:	37797
Ion Ratio	Lower	Upper	
58	100		
100	26.4	25.6	38.4
43	239.8	195.7	293.5

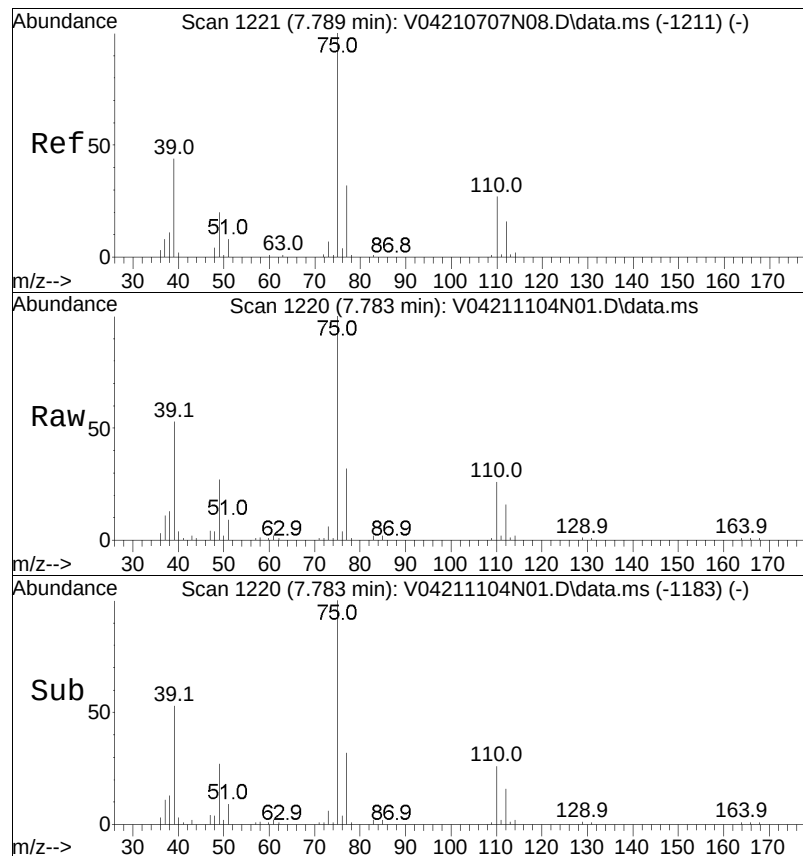




#63
Tetrachloroethene
Concen: 44.01 ug/L
RT: 7.726 min Scan# 1209
Delta R.T. -0.005 min
Lab File: V04211104N01.D
Acq: 4 Nov 2021 5:59 pm

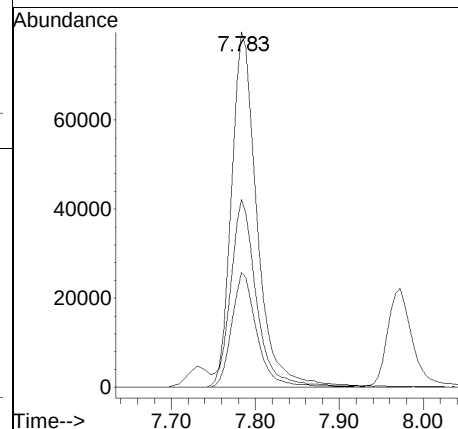
Tgt Ion:	166	Resp:	161225
Ion Ratio	Lower	Upper	
166	100		
168	47.5	27.6	67.6
94	38.4	20.9	60.9

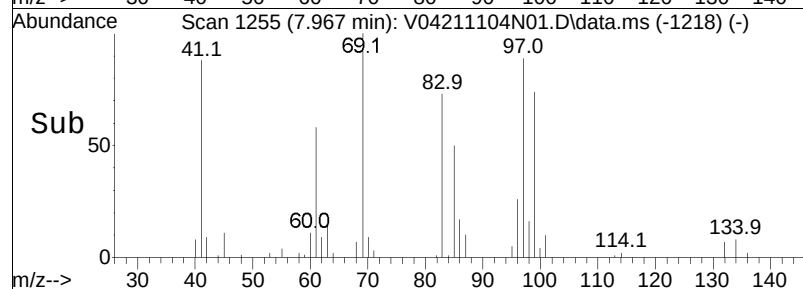
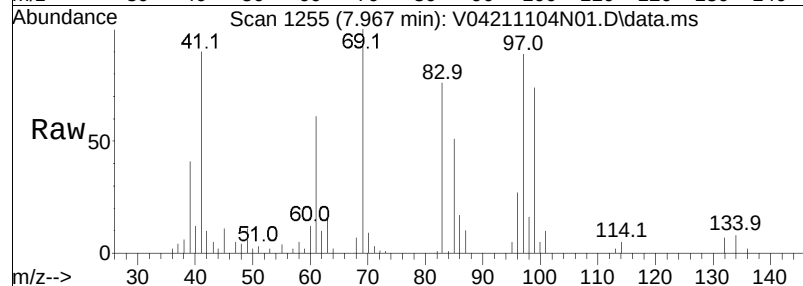
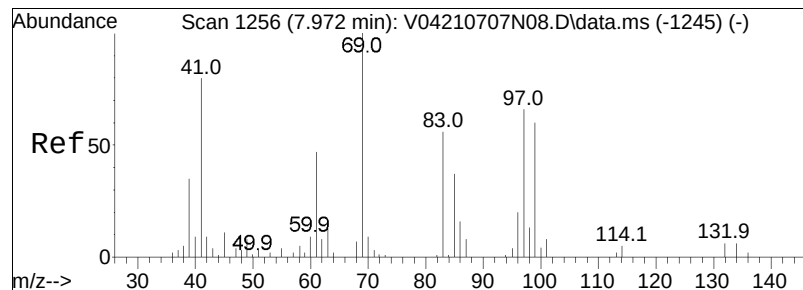




#65
 trans-1,3-Dichloropropene
 Concen: 38.42 ug/L
 RT: 7.783 min Scan# 1220
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion:	75	Resp:	169268
Ion Ratio	Lower	Upper	
75	100		
77	31.9	12.0	52.0
39	52.6	29.3	69.3





#68

1,1,2-Trichloroethane

Concen: 37.92 ug/L

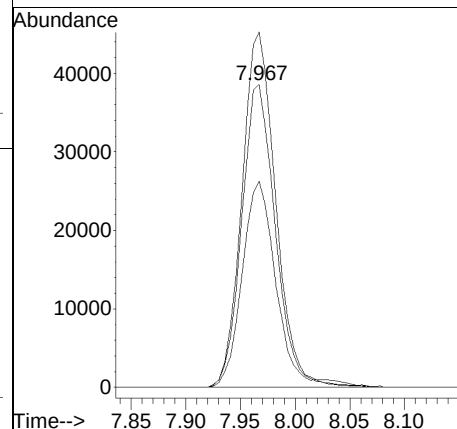
RT: 7.967 min Scan# 1255

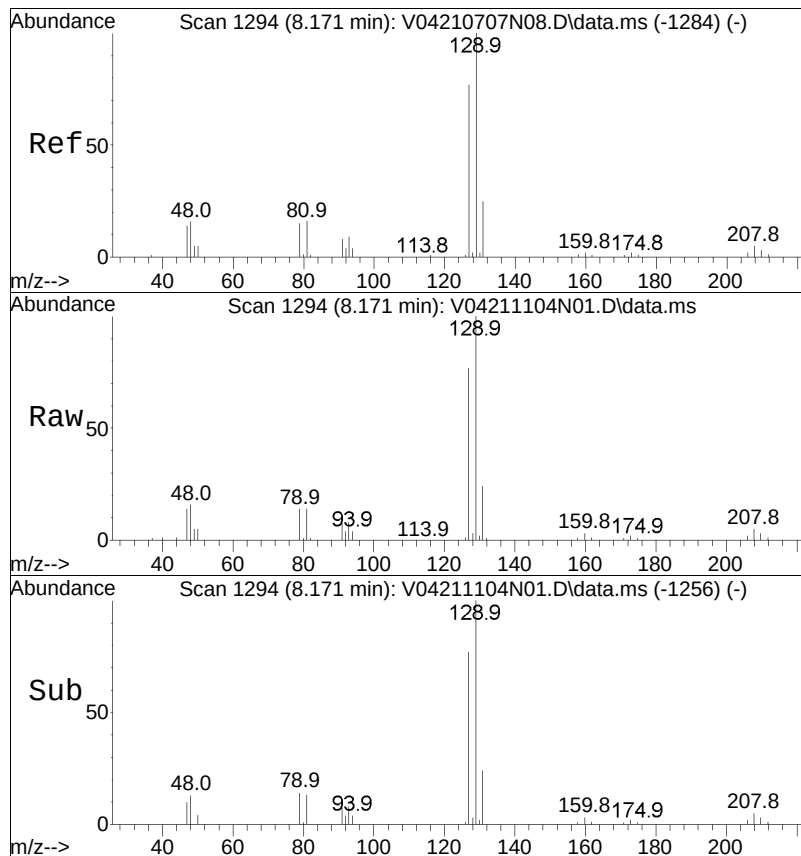
Delta R.T. -0.005 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

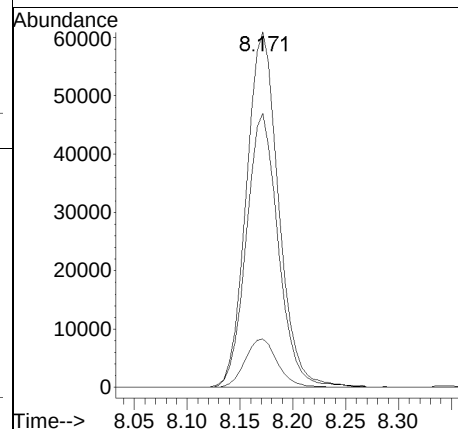
Tgt Ion:	83	Resp:	82812
Ion Ratio	Lower	Upper	
83	100		
97	117.7	99.3	139.3
85	69.4	47.8	87.8

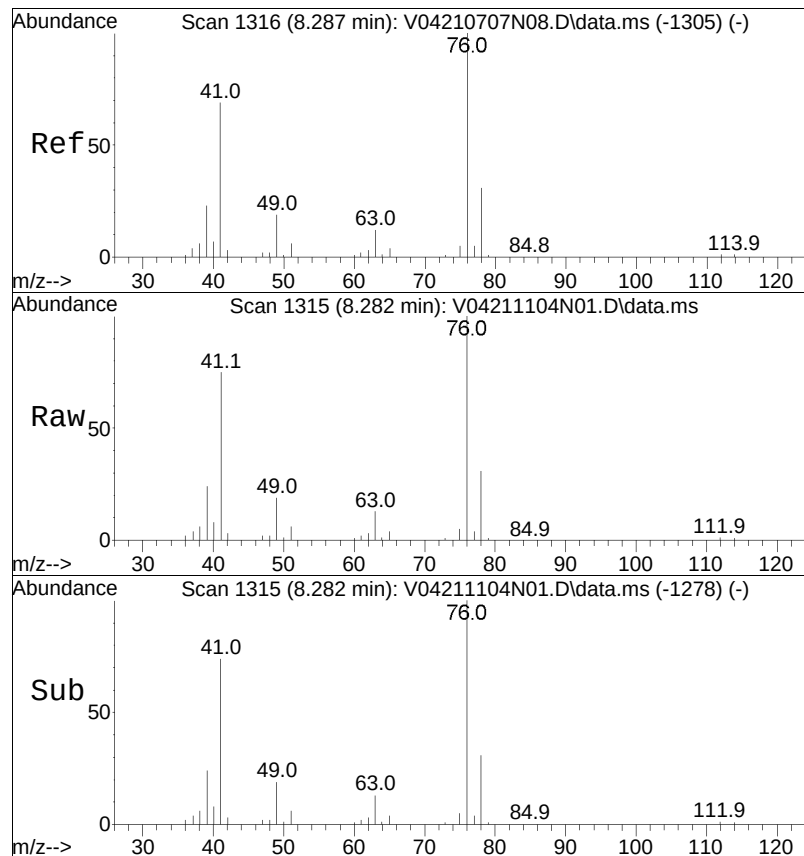




#69
 Chlorodibromomethane
 Concen: 40.01 ug/L
 RT: 8.171 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

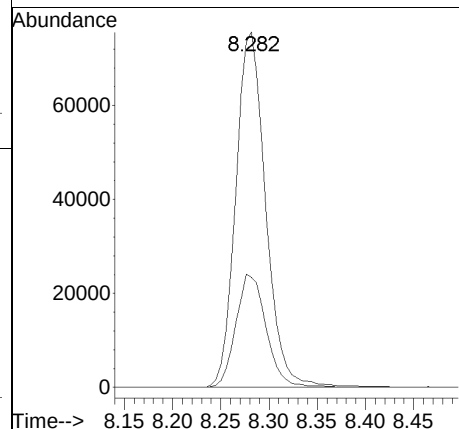
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	129825		
81	13.6		0.0	34.6
127	76.3		56.9	96.9

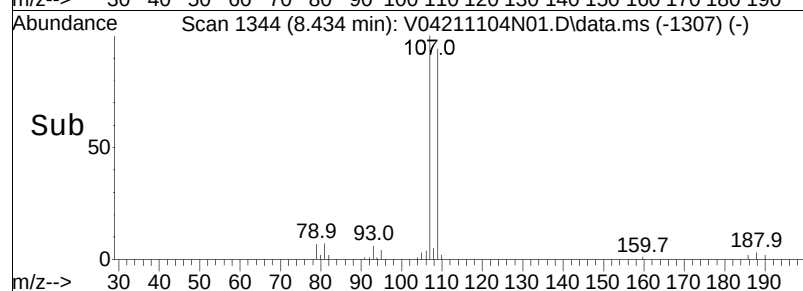
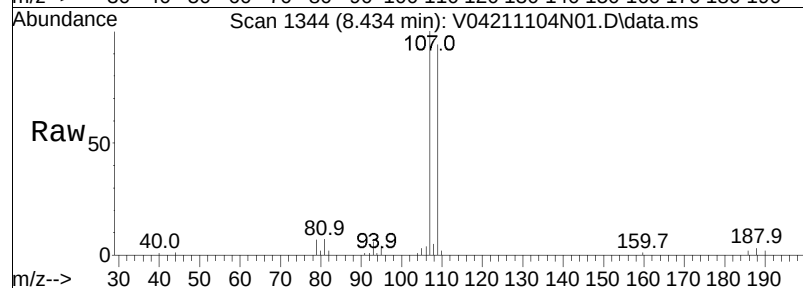
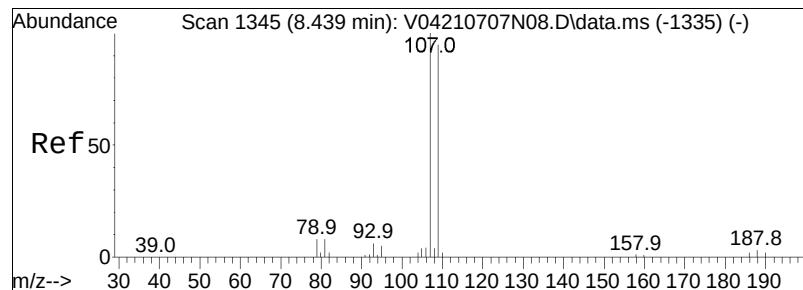




#70
 1,3-Dichloropropane
 Concen: 38.04 ug/L
 RT: 8.282 min Scan# 1315
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

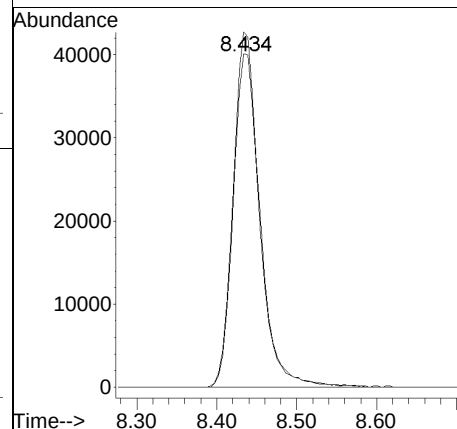
Tgt	Ion	Ratio	Lower	Upper
76	100			
78	32.3	25.8	38.8	

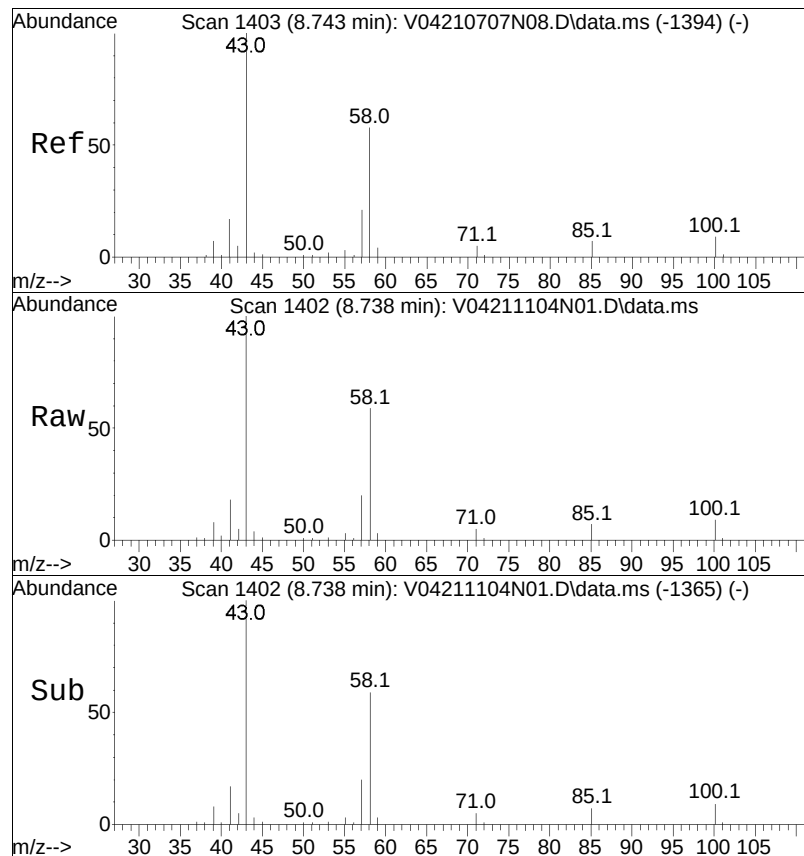




#71
 1,2-Dibromoethane
 Concen: 33.90 ug/L
 RT: 8.434 min Scan# 1344
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

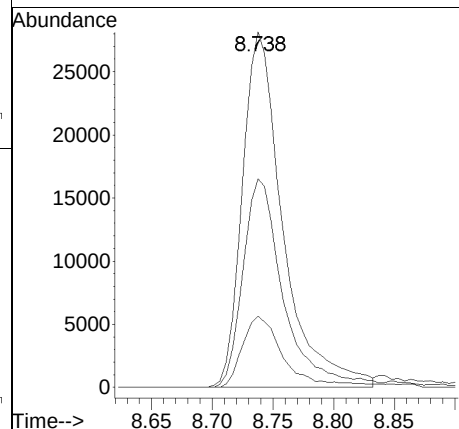
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.4	113.0

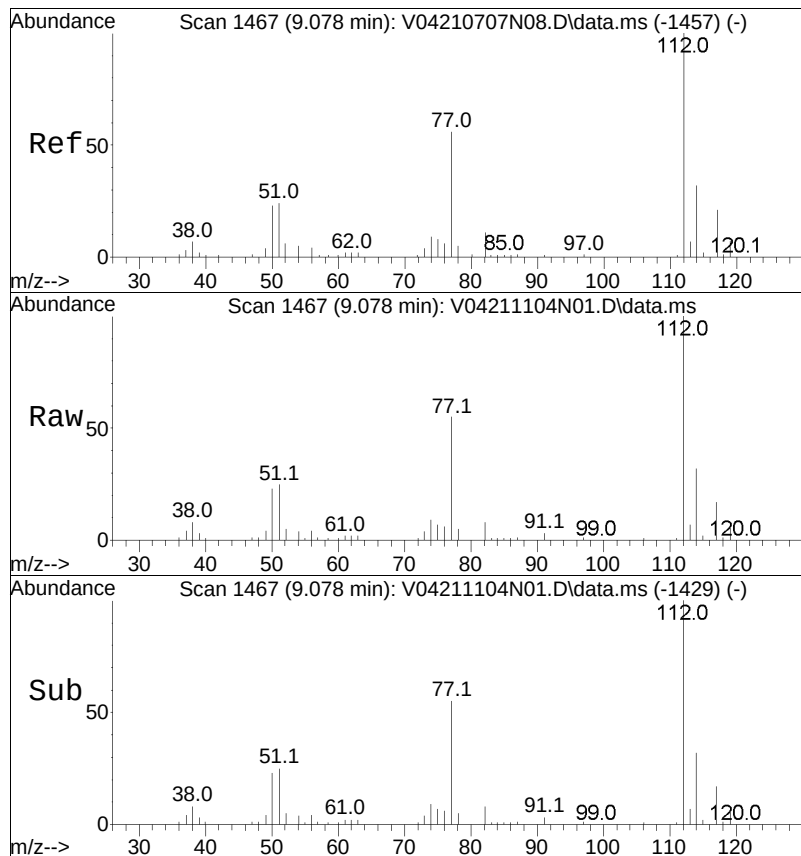




#72
 2-Hexanone
 Concen: 29.82 ug/L
 RT: 8.738 min Scan# 1402
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

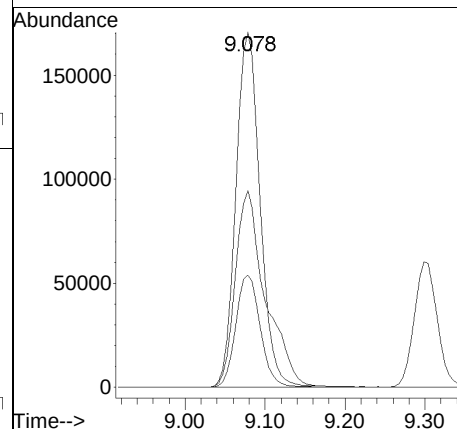
Tgt Ion:	43	Resp:	65586
Ion Ratio	Lower	Upper	
43	100		
58	58.5	44.7	67.1
57	20.8	15.4	23.0

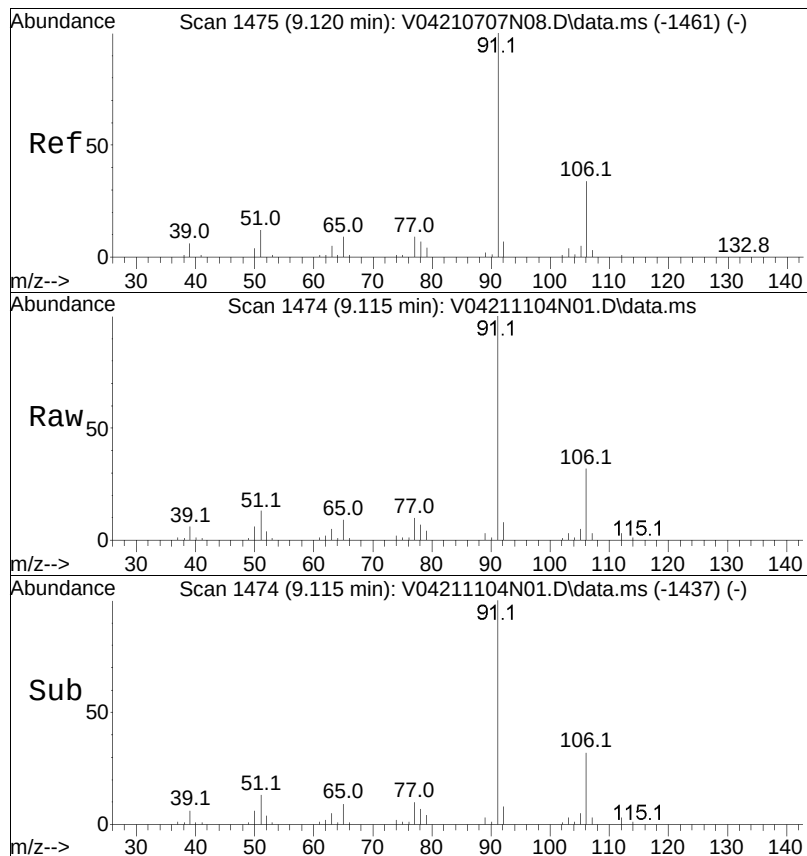




#73
 Chlorobenzene
 Concen: 39.93 ug/L
 RT: 9.078 min Scan# 1467
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

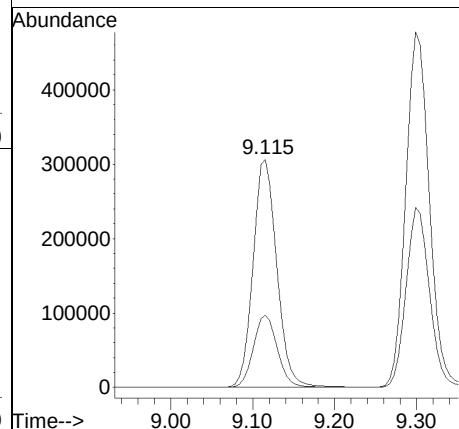
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		359893		
77	69.4	55.3		82.9	
114	32.0	25.5		38.3	

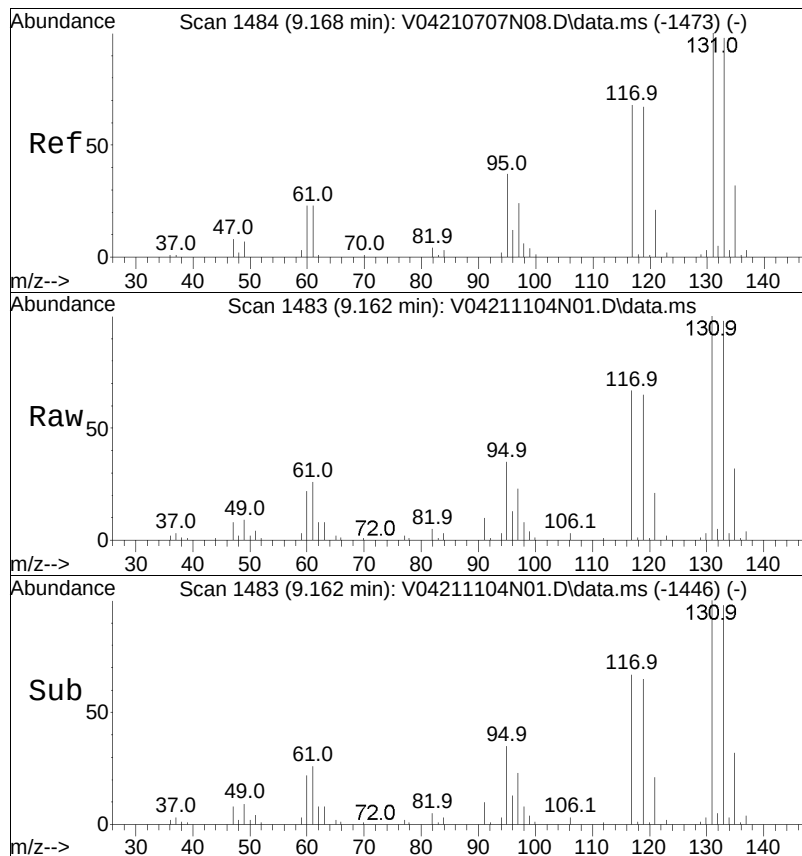




#74
 Ethylbenzene
 Concen: 40.56 ug/L
 RT: 9.115 min Scan# 1474
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

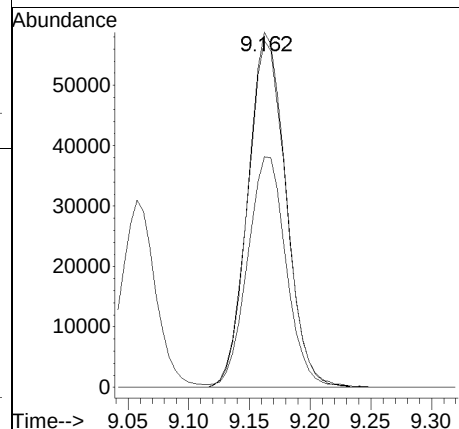
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.4	38.2

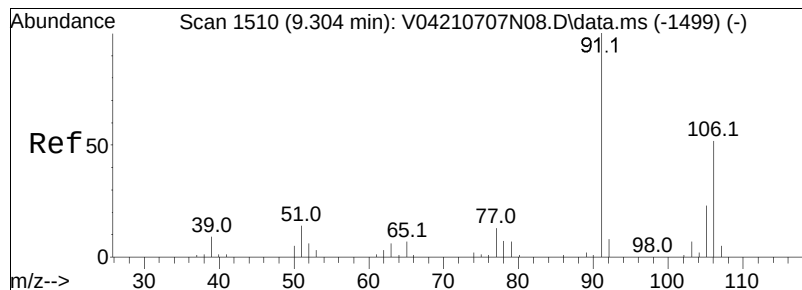




#75
 1,1,1,2-Tetrachloroethane
 Concen: 39.26 ug/L
 RT: 9.162 min Scan# 1483
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

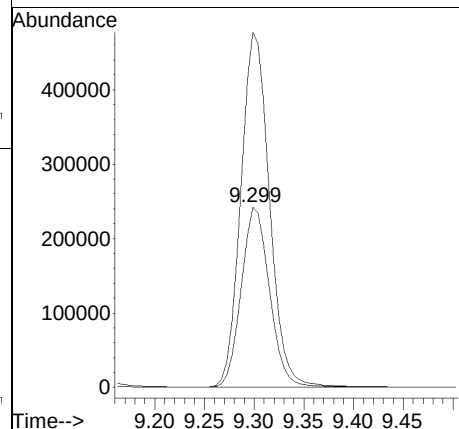
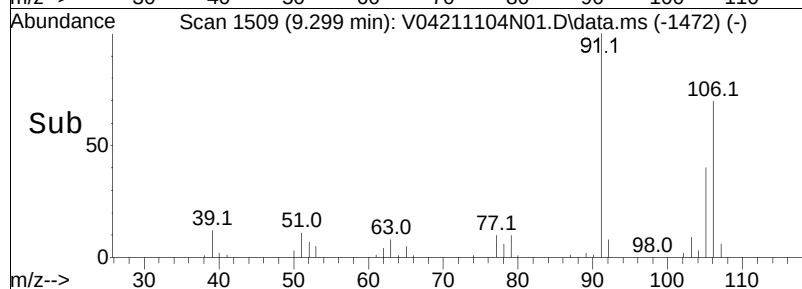
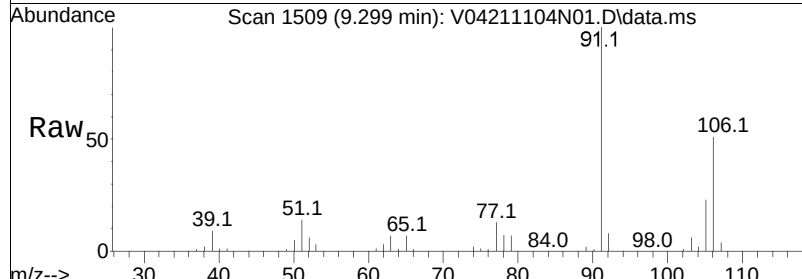
Tgt Ion:	131	Resp:	128882
Ion Ratio	Lower	Upper	
131	100		
133	97.6	77.0	117.0
119	65.7	45.8	85.8

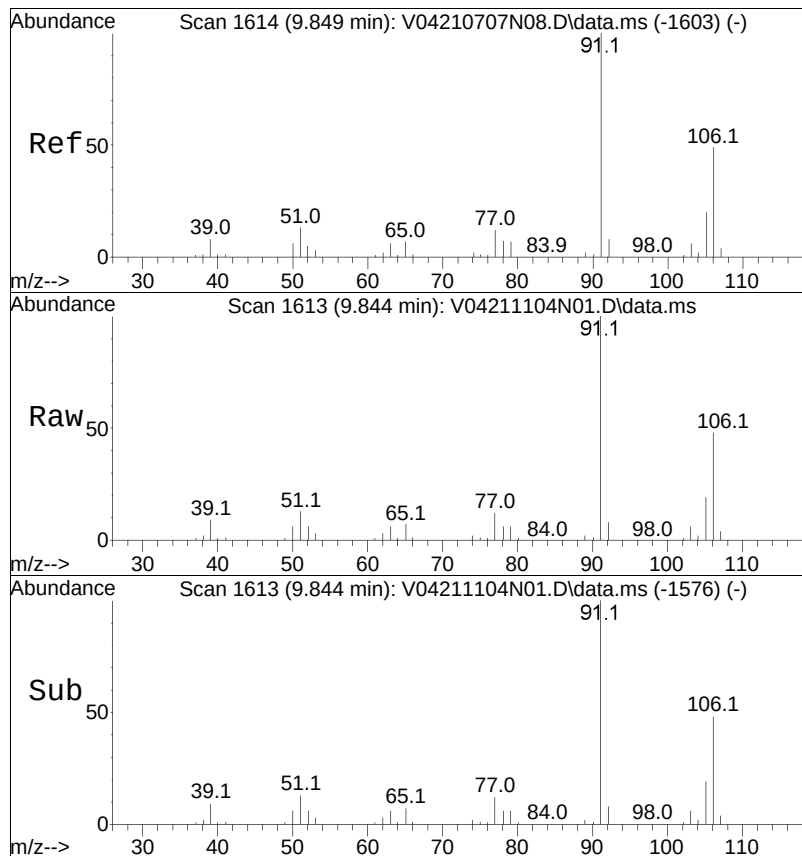




#76
 p/m Xylene
 Concen: 85.82 ug/L
 RT: 9.299 min Scan# 1509
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

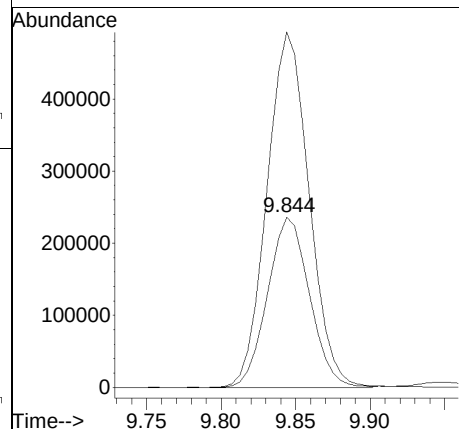
Tgt Ion	Ratio	Lower	Upper
106	100		
91	197.9	157.1	235.7

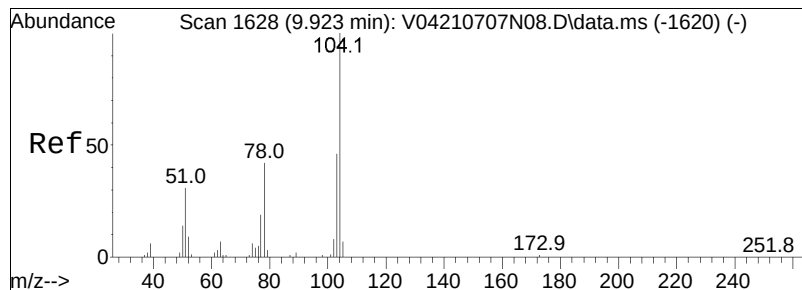




#77
 o Xylene
 Concen: 76.84 ug/L
 RT: 9.844 min Scan# 1613
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	210.0	165.9	248.9	





#78

Styrene

Concen: 80.18 ug/L

RT: 9.917 min Scan# 1627

Delta R.T. -0.006 min

Lab File: V04211104N01.D

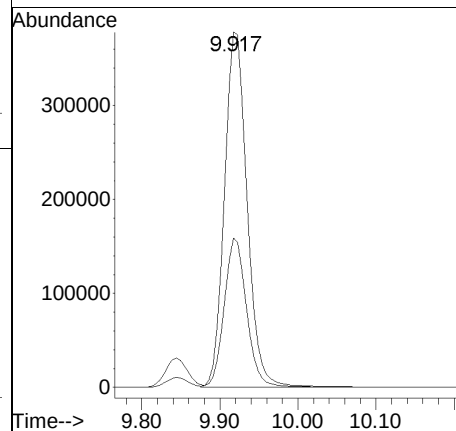
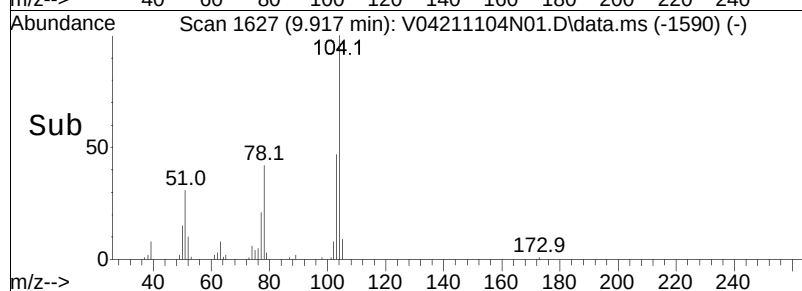
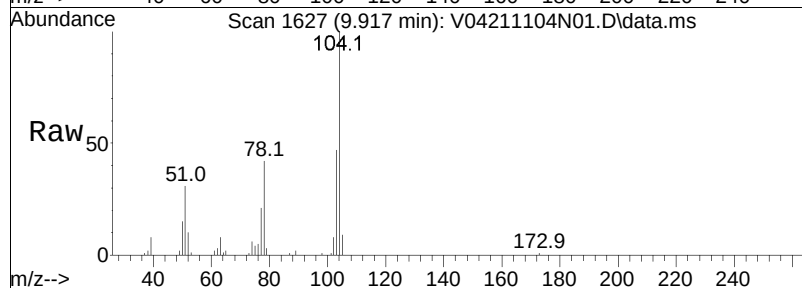
Acq: 4 Nov 2021 5:59 pm

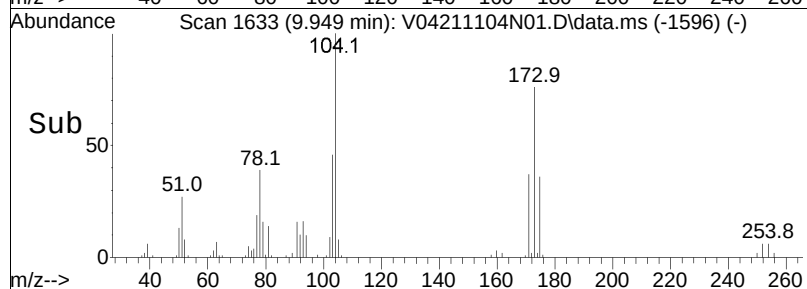
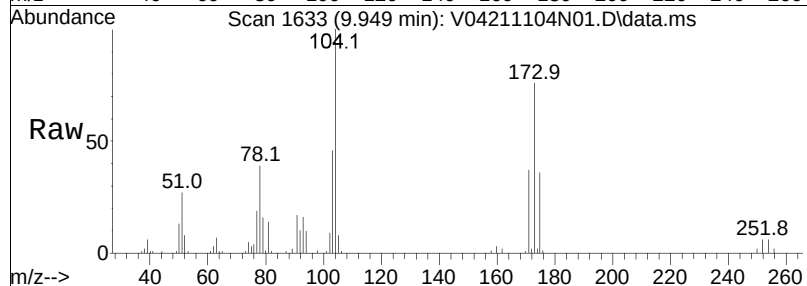
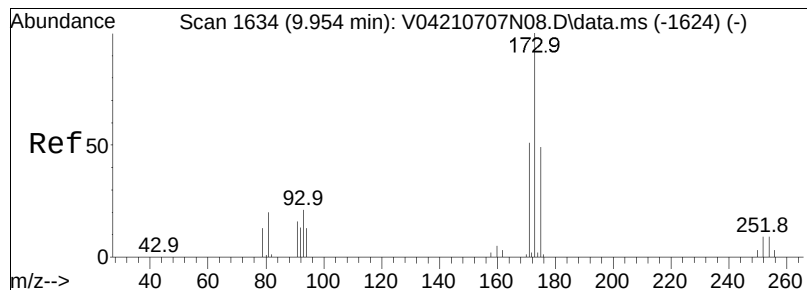
Tgt Ion:104 Resp: 762382

Ion Ratio Lower Upper

104 100

78 41.5 33.0 49.4





#80

Bromoform

Concen: 32.75 ug/L

RT: 9.949 min Scan# 1633

Delta R.T. -0.005 min

Lab File: V04211104N01.D

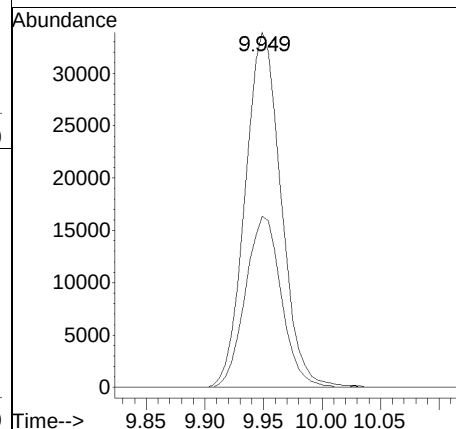
Acq: 4 Nov 2021 5:59 pm

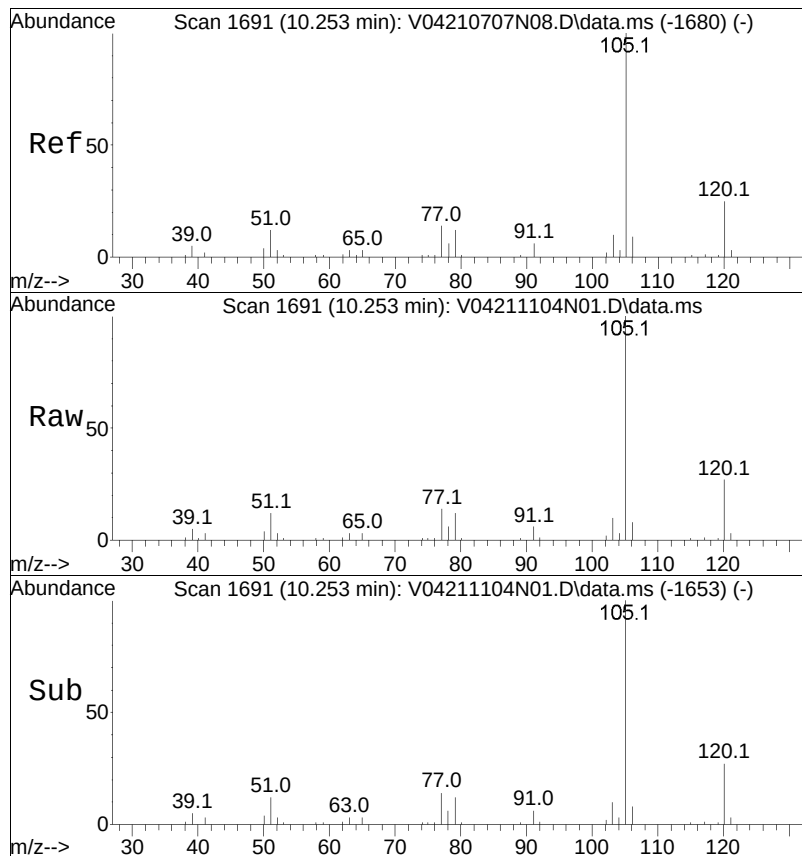
Tgt Ion:173 Resp: 72357

Ion Ratio Lower Upper

173 100

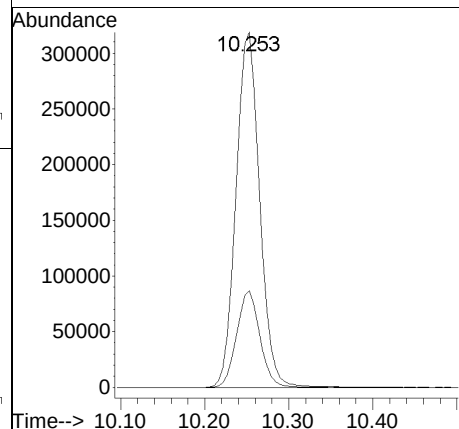
175 48.2 28.2 68.2

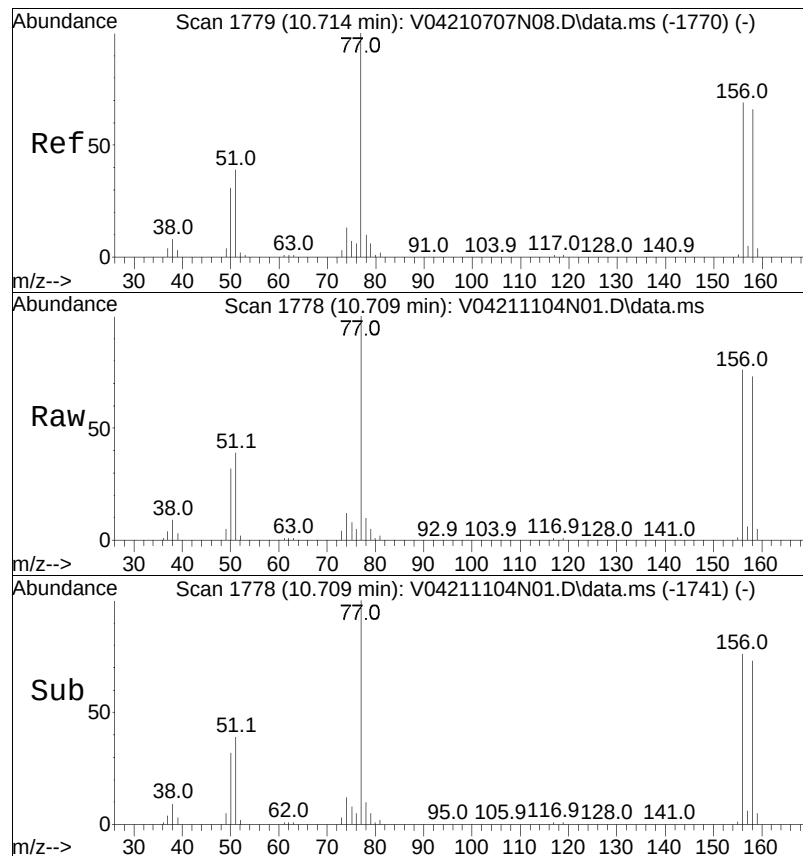




#82
 Isopropylbenzene
 Concen: 39.60 ug/L
 RT: 10.253 min Scan# 1691
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

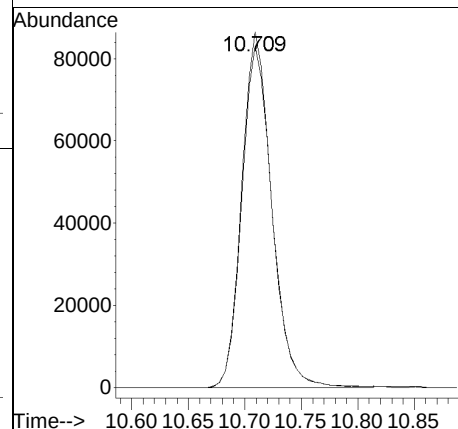
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	6.0	46.0

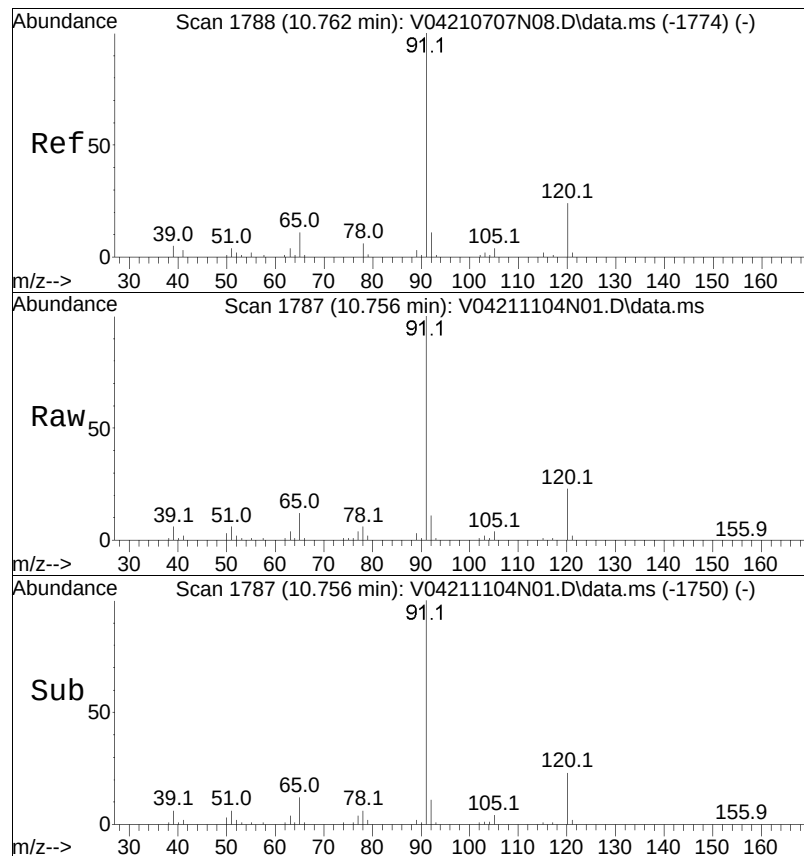




#84
 Bromobenzene
 Concen: 41.77 ug/L
 RT: 10.709 min Scan# 1778
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

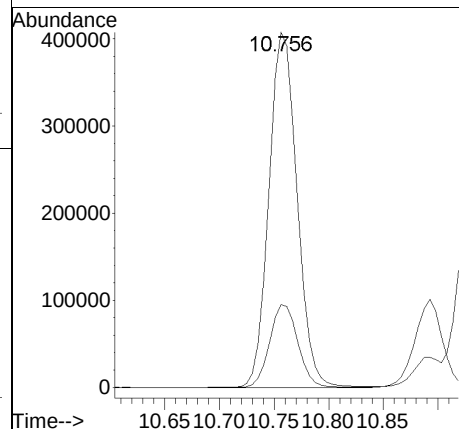
Tgt Ion	Ratio	Lower	Upper
156	100		
158	97.2	79.0	118.4

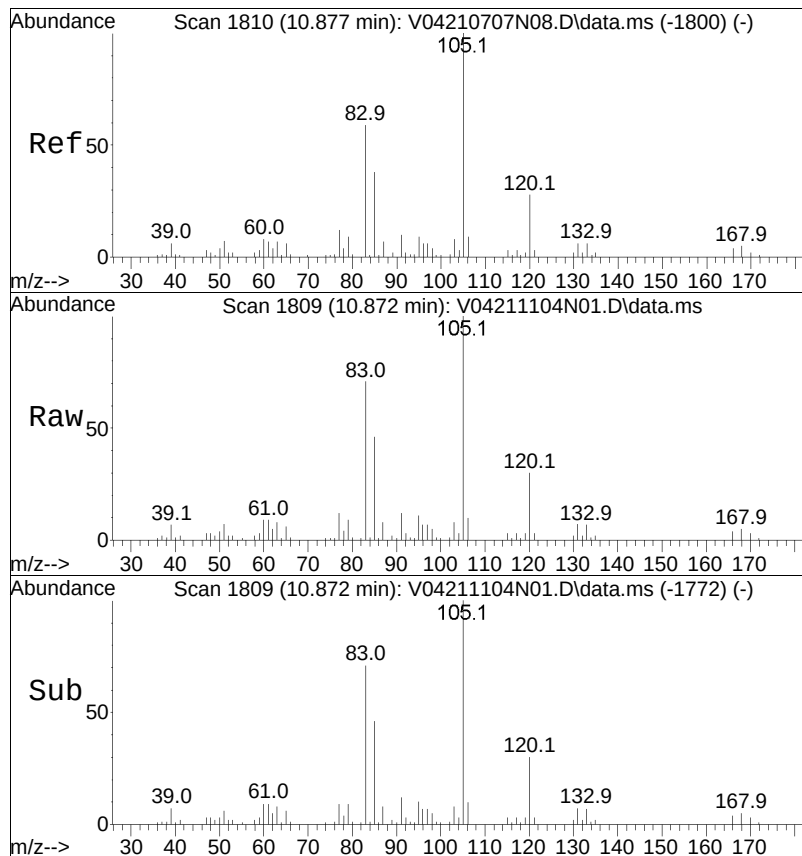




#85
 n-Propylbenzene
 Concen: 41.38 ug/L
 RT: 10.756 min Scan# 1787
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

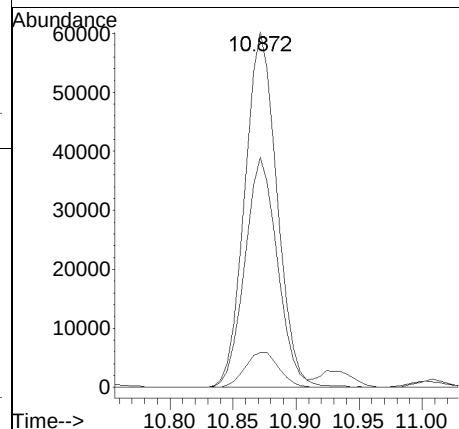
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	18.9	28.3

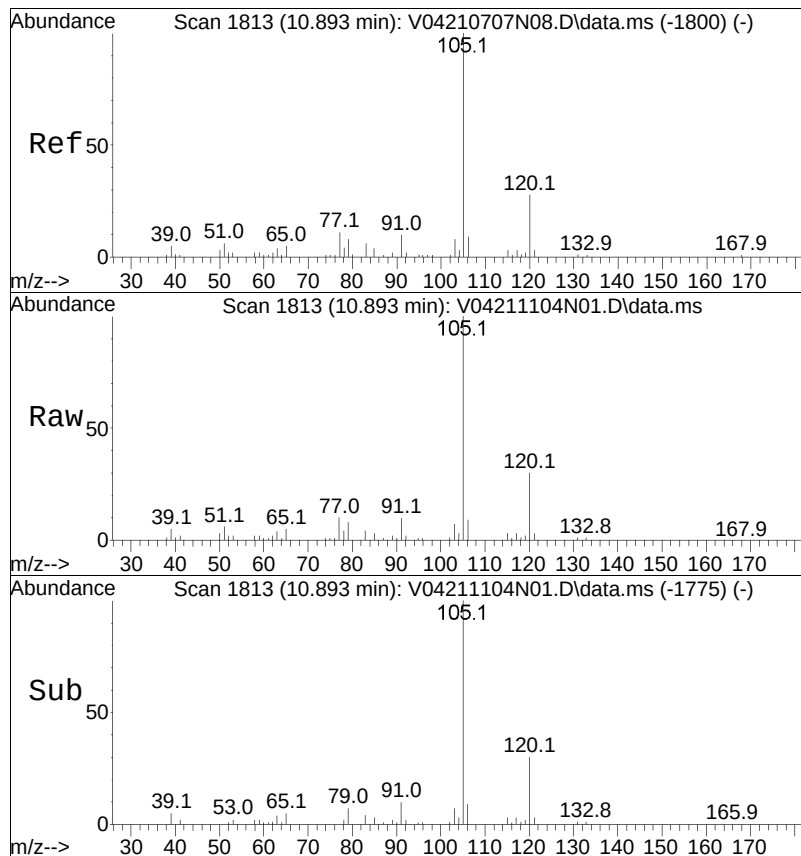




#87
 1,1,2,2-Tetrachloroethane
 Concen: 32.73 ug/L
 RT: 10.872 min Scan# 1809
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

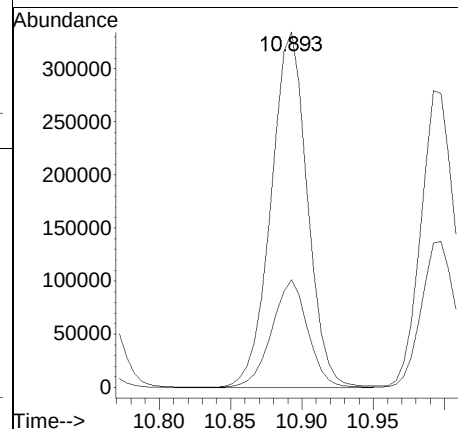
Tgt Ion:	83	Resp:	107157
Ion Ratio	Lower	Upper	
83	100		
131	10.4	0.0	30.7
85	65.1	44.7	84.7

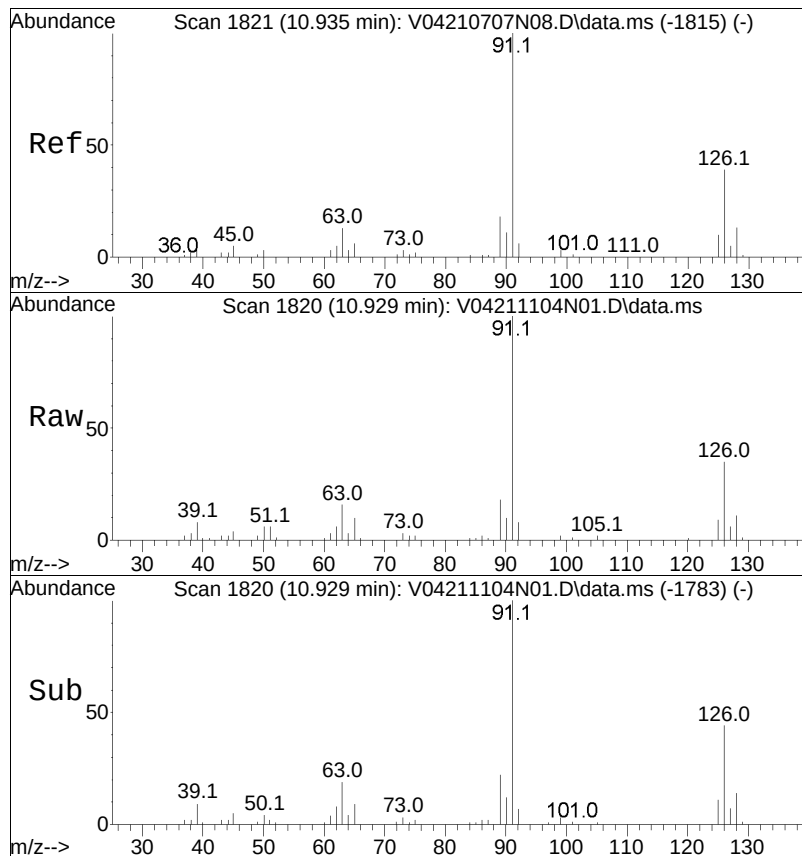




#88
 4-Ethyltoluene
 Concen: 39.06 ug/L
 RT: 10.893 min Scan# 1813
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

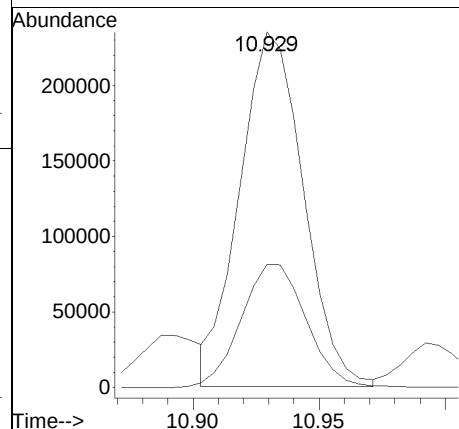
Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	29.8	19.2	40.0

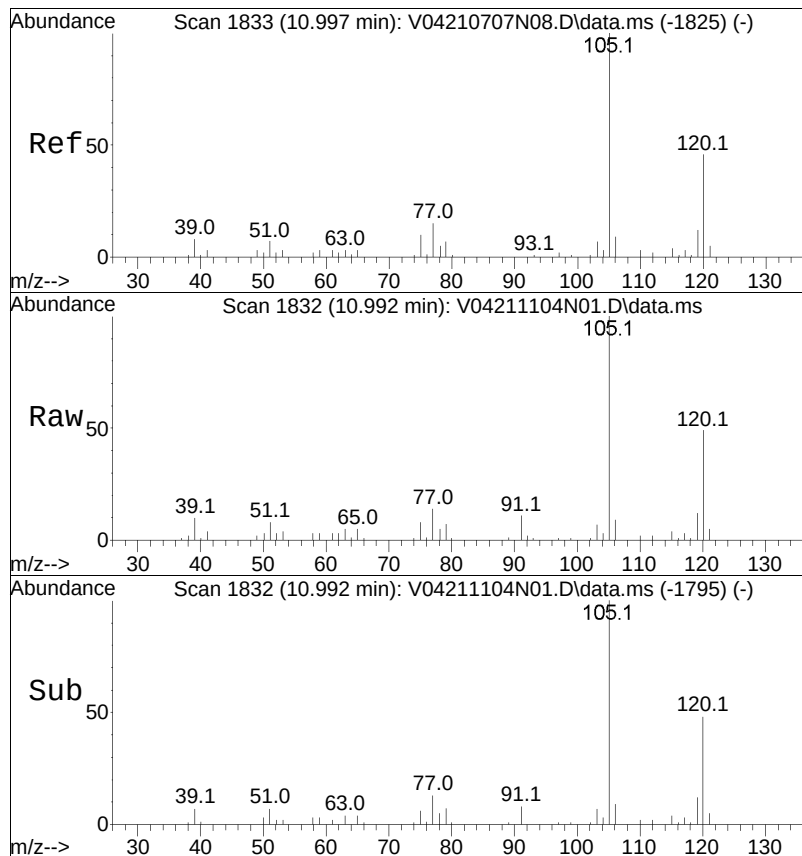




#89
 2-Chlorotoluene
 Concen: 38.99 ug/L
 RT: 10.929 min Scan# 1820
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

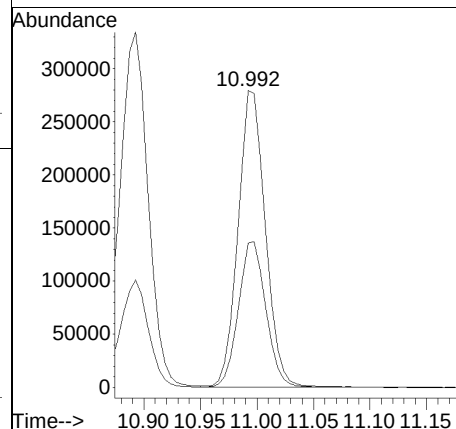
Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	27.8	41.8

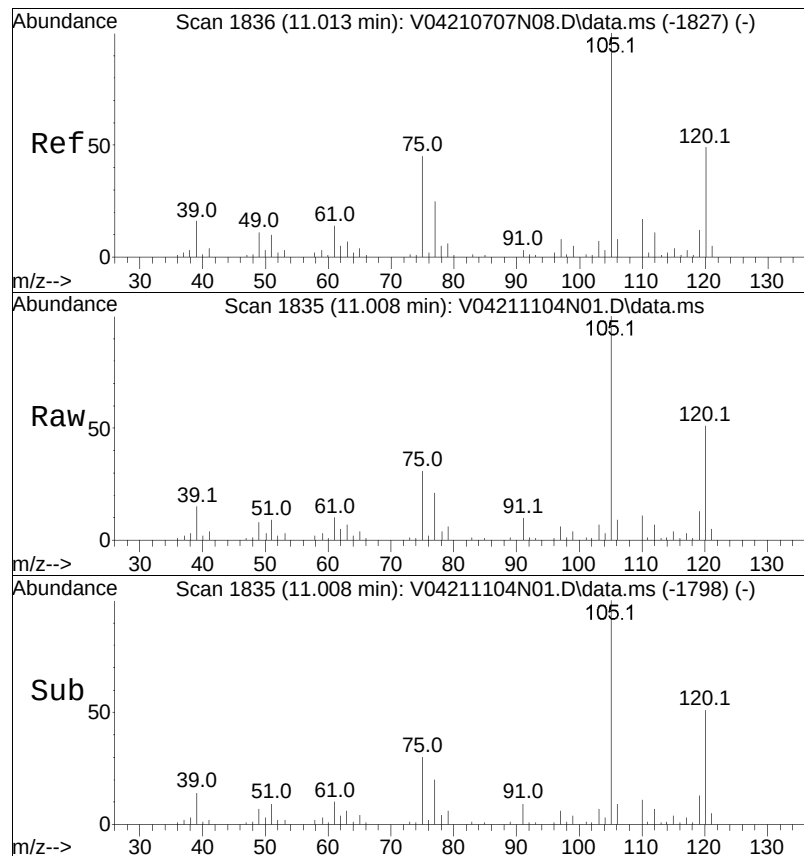




#90
 1,3,5-Trimethylbenzene
 Concen: 36.33 ug/L
 RT: 10.992 min Scan# 1832
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

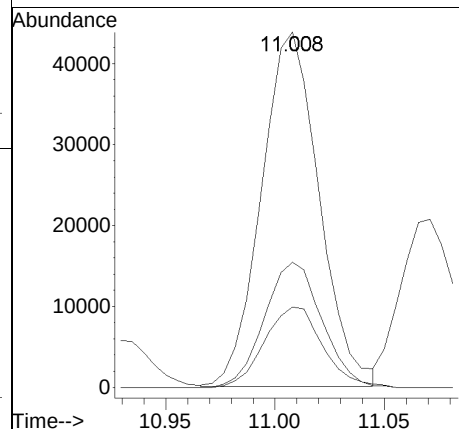
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	468809				
Ratio	100	49.7		38.4	57.6

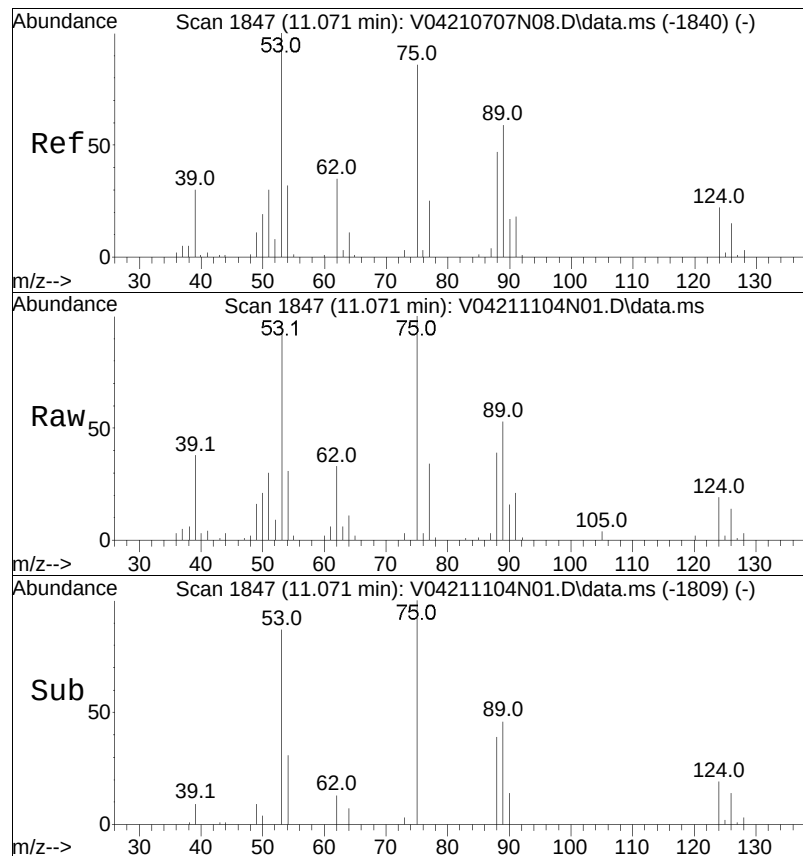




#91
 1,2,3-Trichloropropane
 Concen: 31.76 ug/L
 RT: 11.008 min Scan# 1835
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

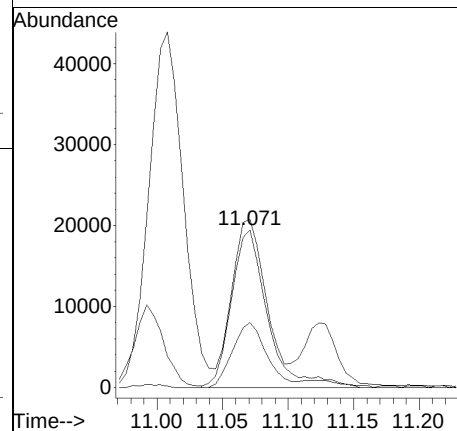
Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.1	24.6	51.2
112	22.8	15.5	32.3

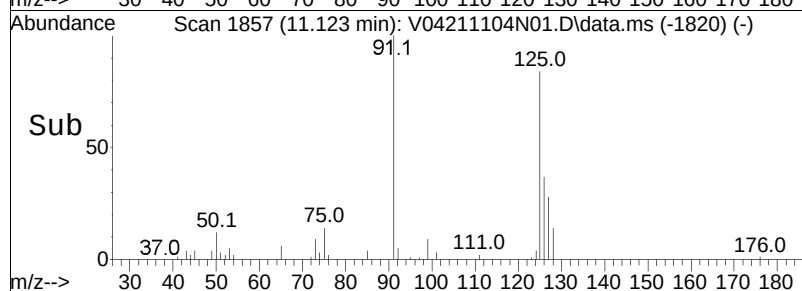
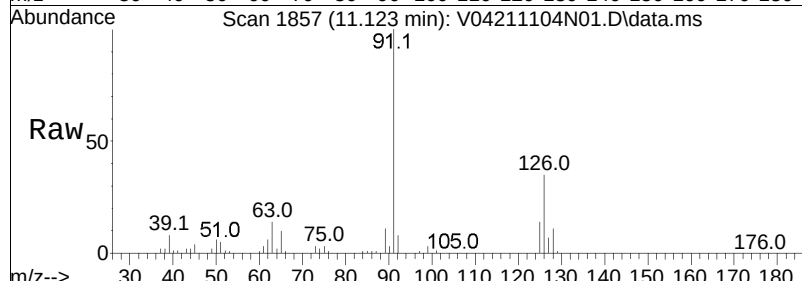
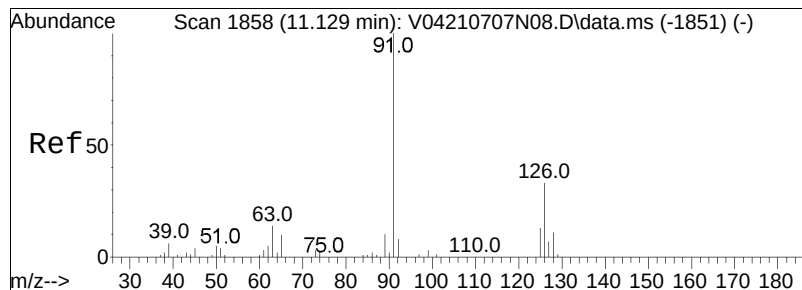




#92
 trans-1,4-Dichloro-2-butene
 Concen: 31.97 ug/L
 RT: 11.071 min Scan# 1847
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion:	53	88	75	Ratio	100	38.8	99.1	Resp:	37449	Lower	Upper





#93

4-Chlorotoluene

Concen: 38.34 ug/L

RT: 11.123 min Scan# 1857

Delta R.T. -0.006 min

Lab File: V04211104N01.D

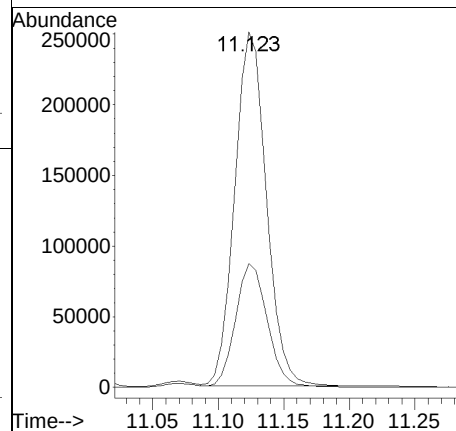
Acq: 4 Nov 2021 5:59 pm

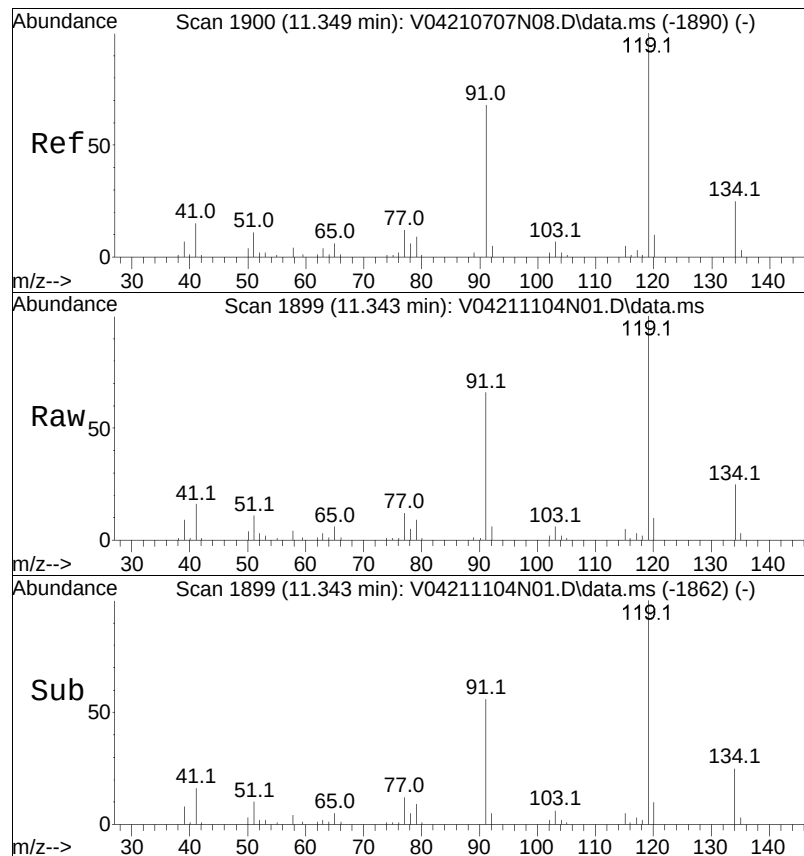
Tgt Ion: 91 Resp: 420850

Ion Ratio Lower Upper

91 100

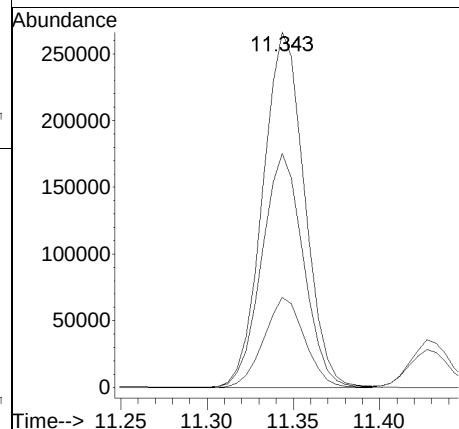
126 35.3 27.6 41.4

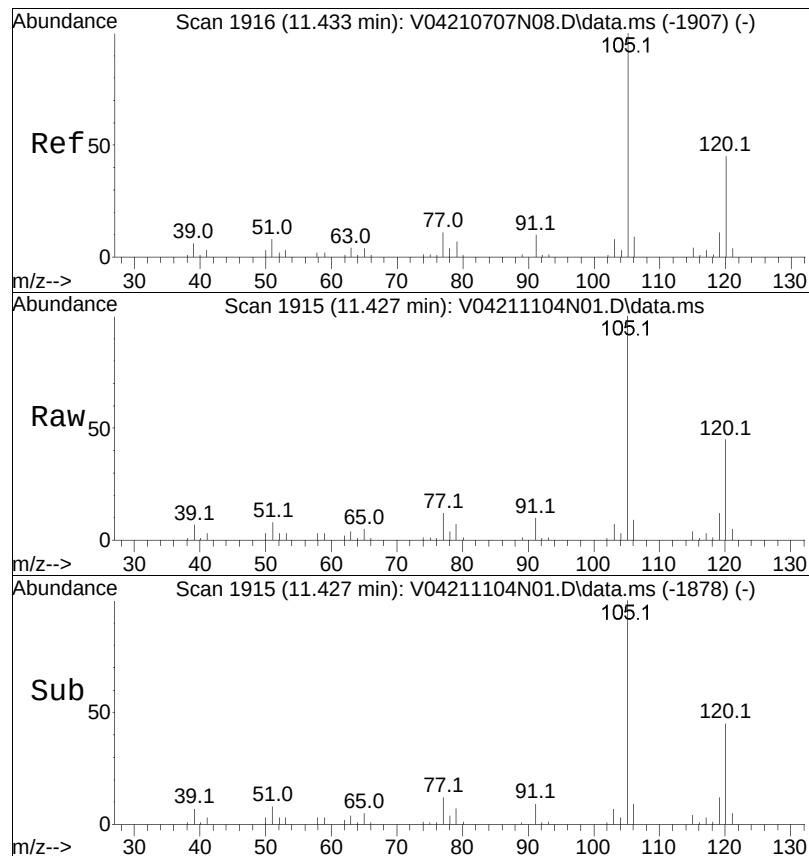




#94
 tert-Butylbenzene
 Concen: 40.99 ug/L
 RT: 11.343 min Scan# 1899
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

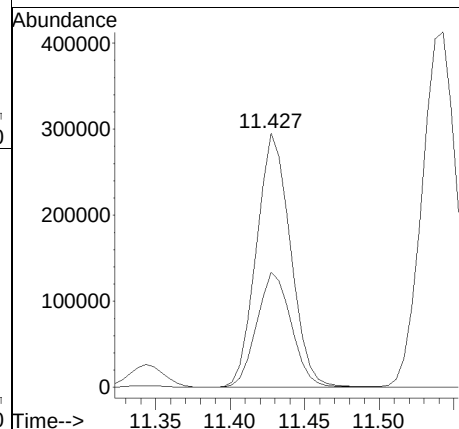
Tgt Ion:	119	Resp:	447214
Ion Ratio	Lower	Upper	
119	100		
91	65.4	53.0	79.6
134	24.8	19.6	29.4

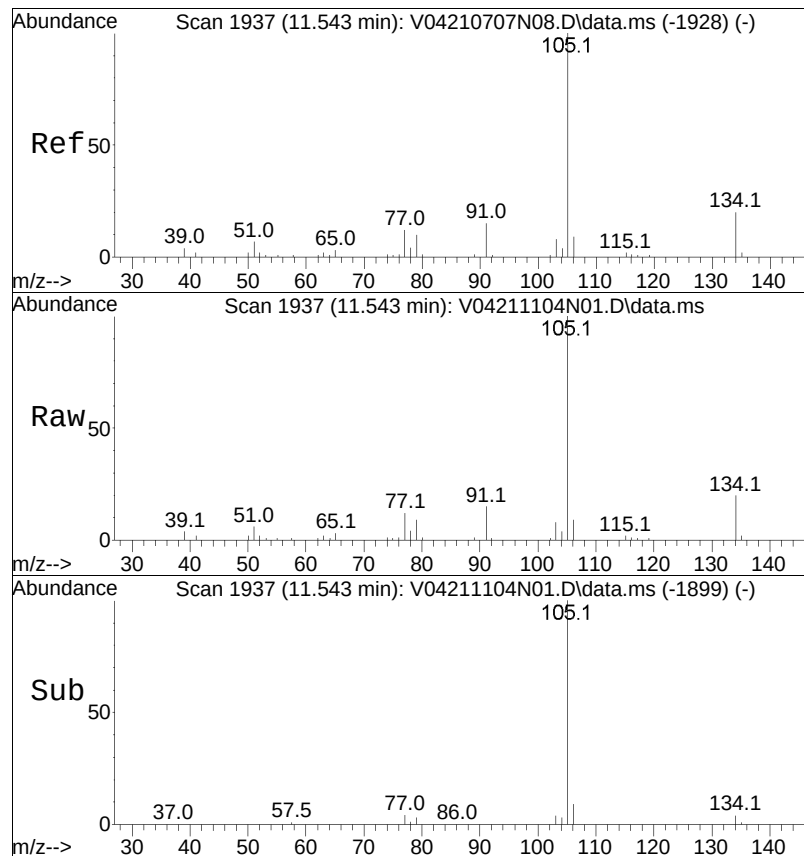




#97
 1,2,4-Trimethylbenzene
 Concen: 36.53 ug/L
 RT: 11.427 min Scan# 1915
 Delta R.T. -0.006 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

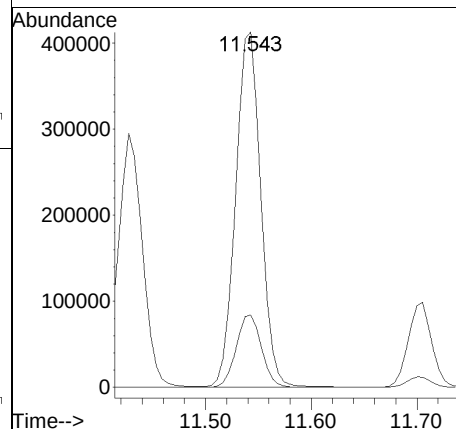
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	45.8		36.4	54.6	

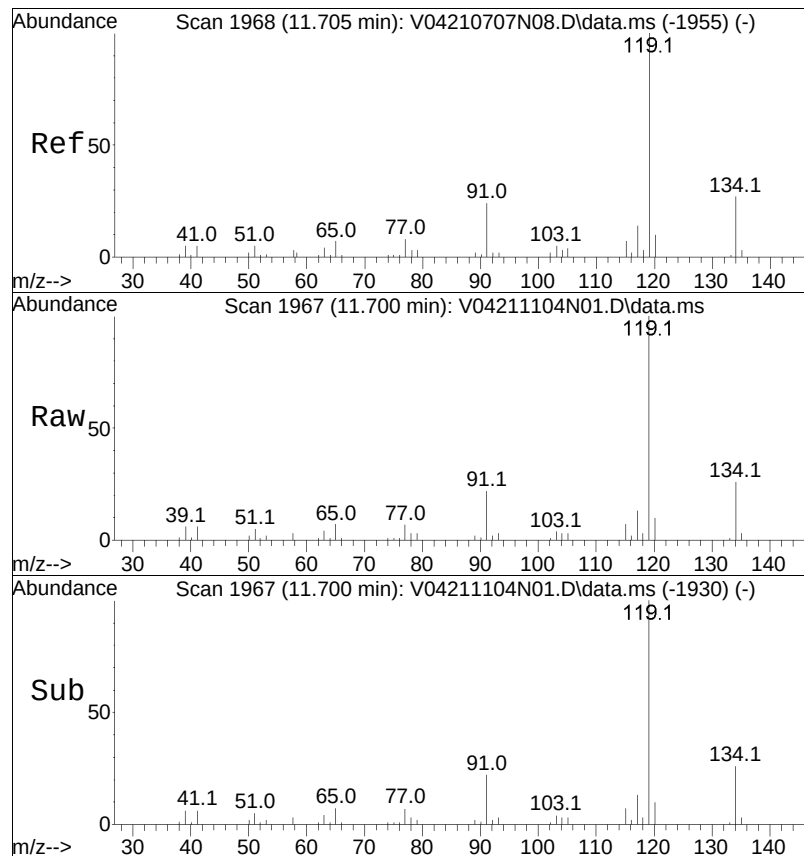




#98
 sec-Butylbenzene
 Concen: 39.82 ug/L
 RT: 11.543 min Scan# 1937
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

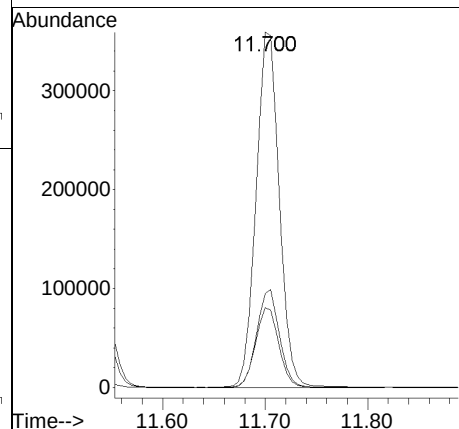
Tgt Ion:105 Resp: 681282
 Ion Ratio Lower Upper
 105 100
 134 20.6 12.9 26.9

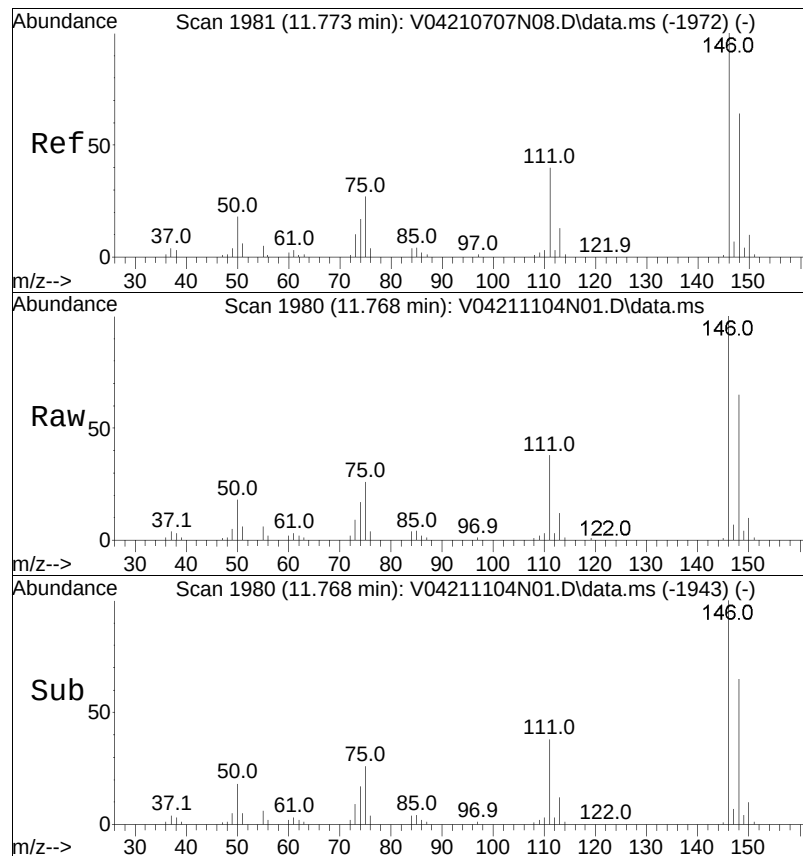




#99
 p-Isopropyltoluene
 Concen: 40.80 ug/L
 RT: 11.700 min Scan# 1967
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

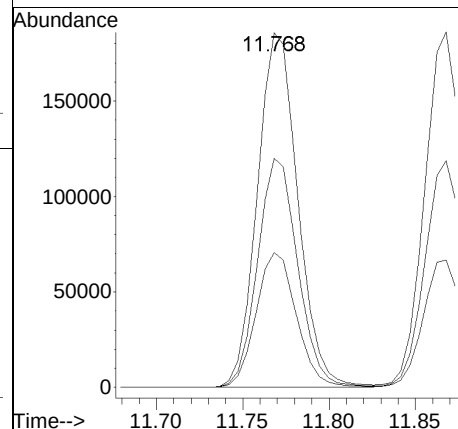
Tgt	Ion	Ratio	Lower	Upper
119	100			
134	27.0	17.1	35.5	
91	22.7	14.8	30.6	

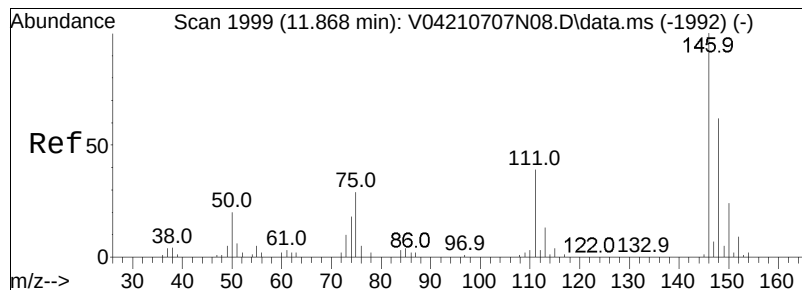




#100
 1,3-Dichlorobenzene
 Concen: 40.28 ug/L
 RT: 11.768 min Scan# 1980
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

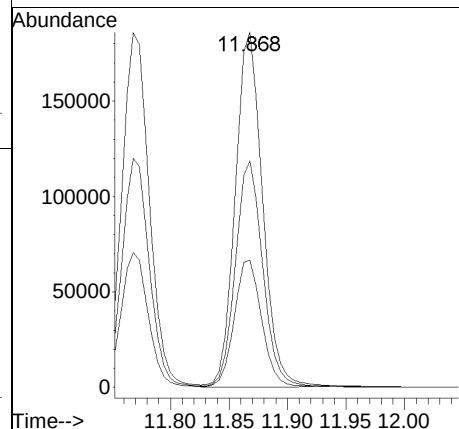
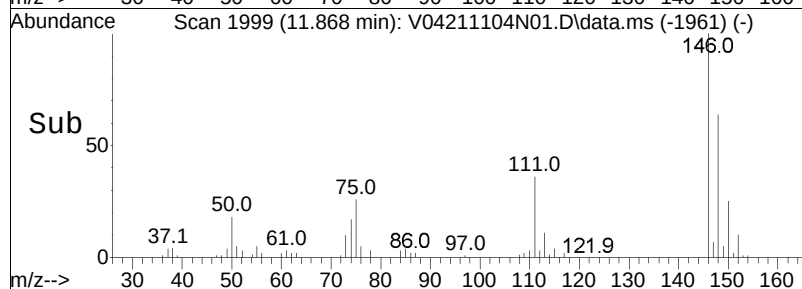
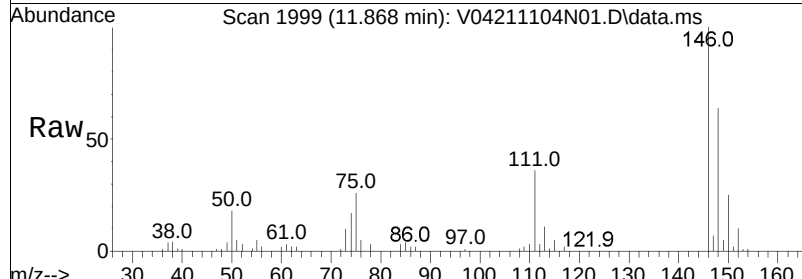
Tgt	Ion:146	Resp:	303119
Ion	Ratio	Lower	Upper
146	100		
111	37.9	24.8	51.6
148	64.1	41.6	86.4

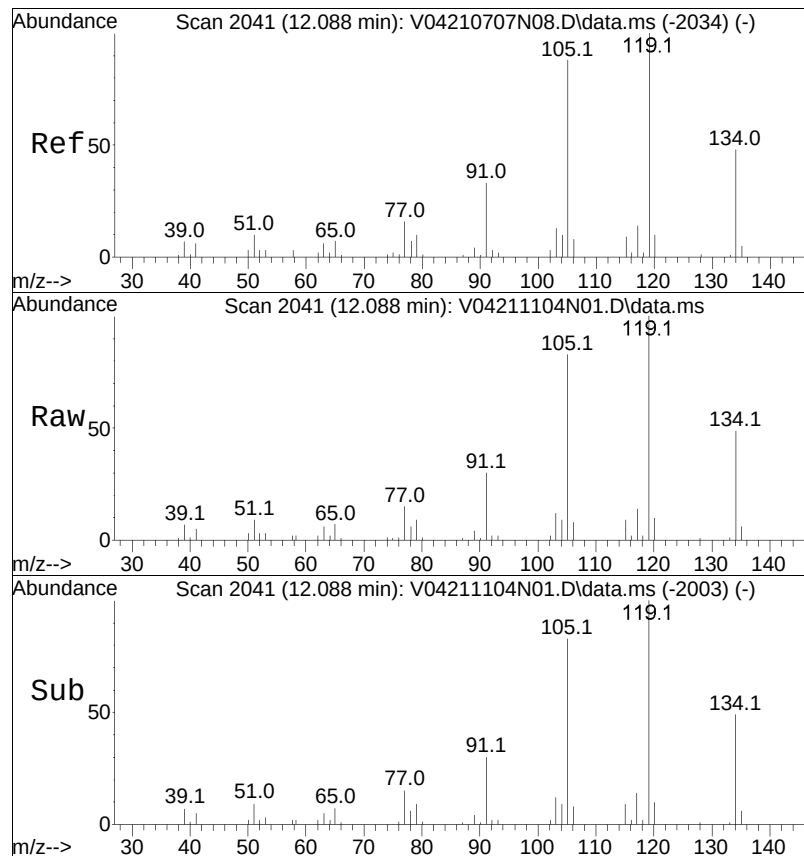




#101
 1,4-Dichlorobenzene
 Concen: 39.28 ug/L
 RT: 11.868 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

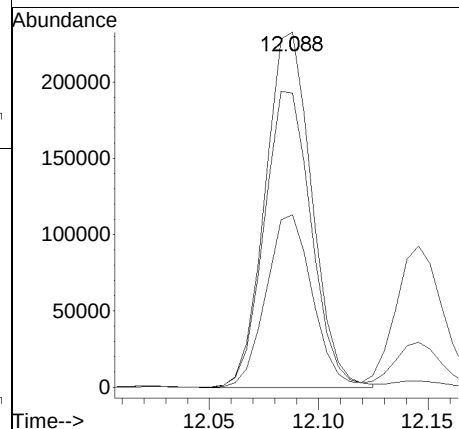
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	30.2	45.2
148	63.8	50.6	76.0

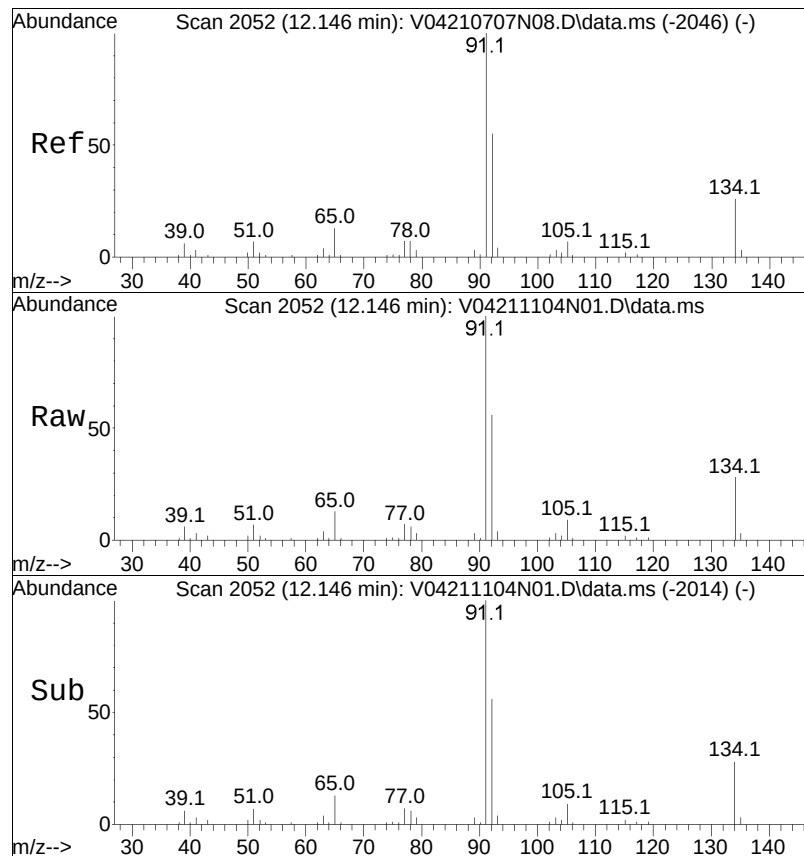




#102
 p-Diethylbenzene
 Concen: 42.25 ug/L
 RT: 12.088 min Scan# 2041
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

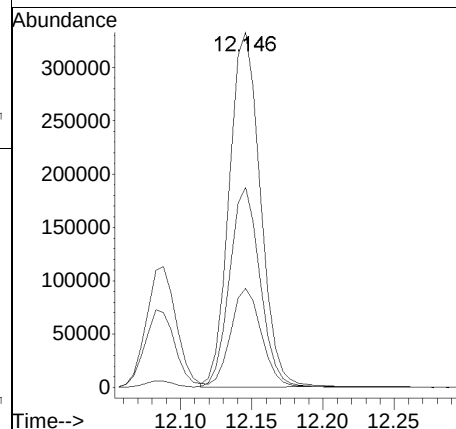
Tgt Ion	Ratio	Lower	Upper
119	100		
105	83.9	55.6	115.6
134	48.3	30.7	63.9

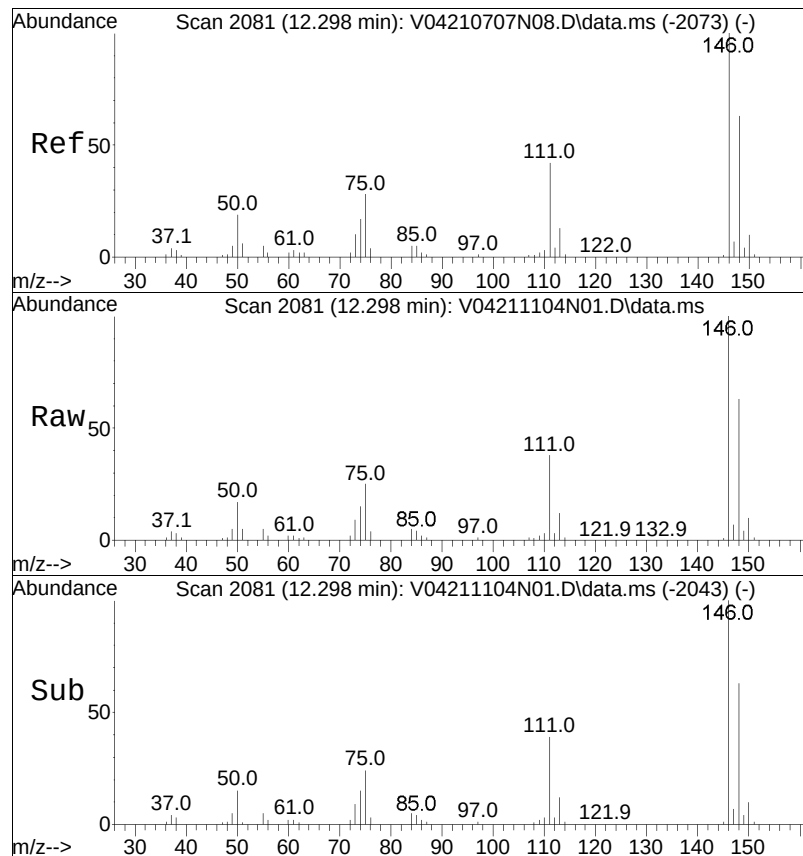




#103
 n-Butylbenzene
 Concen: 41.04 ug/L
 RT: 12.146 min Scan# 2052
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

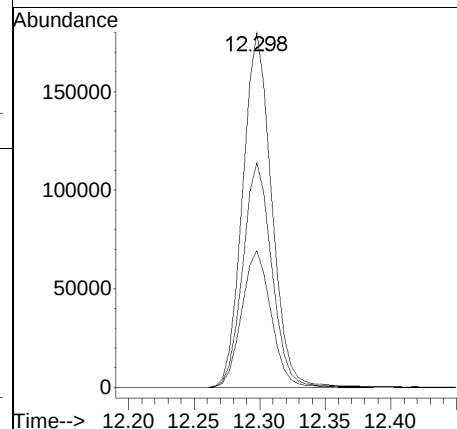
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	43.4	65.2
134	27.7	21.5	32.3

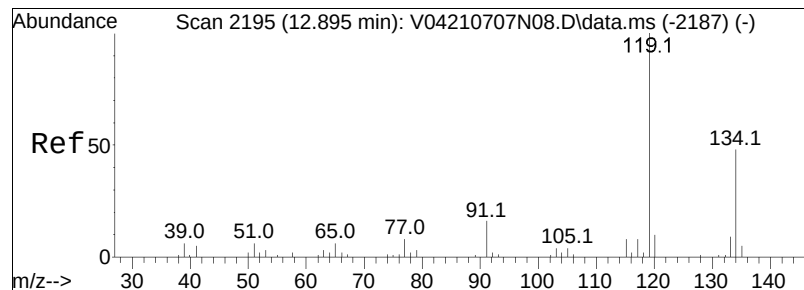




#104
 1,2-Dichlorobenzene
 Concen: 39.13 ug/L
 RT: 12.298 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	25.5	52.9
148	63.5	40.8	84.8





#105

1,2,4,5-Tetramethylbenzene

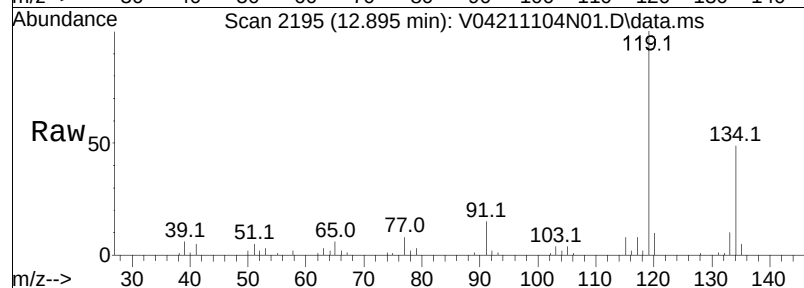
Concen: 41.84 ug/L

RT: 12.895 min Scan# 2195

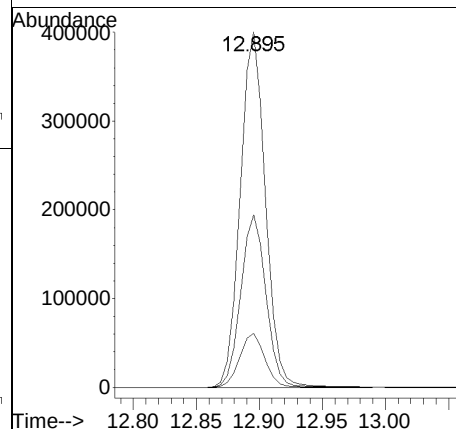
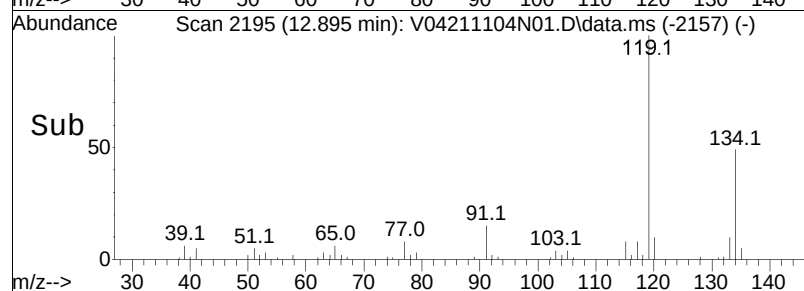
Delta R.T. 0.000 min

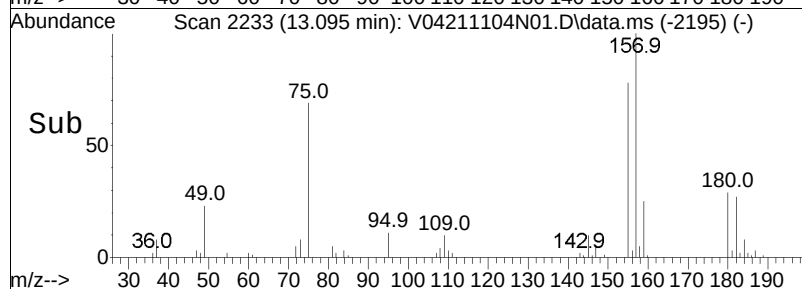
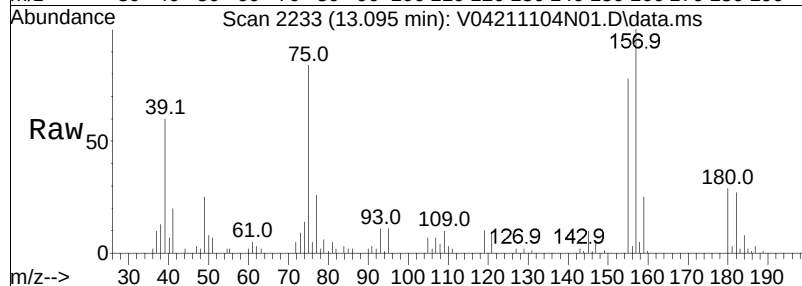
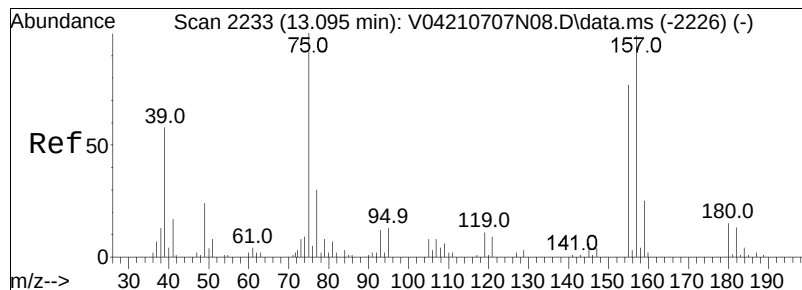
Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm



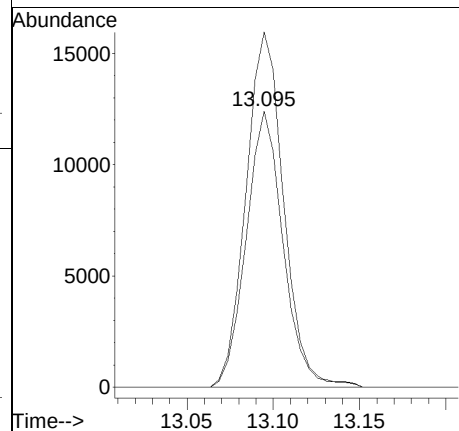
Tgt Ion:	119	Resp:	554177
Ion Ratio	Lower	Upper	
119	100		
134	48.9	31.3	64.9
91	15.3	10.1	21.1

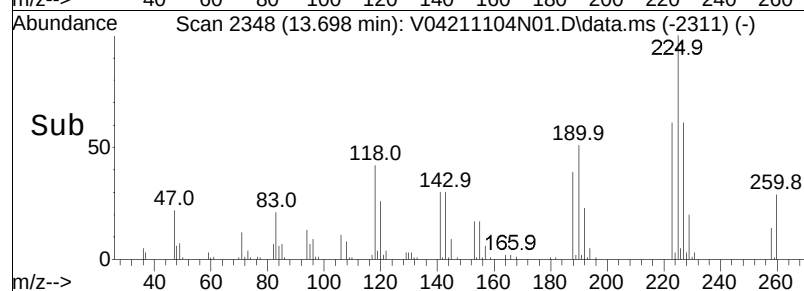
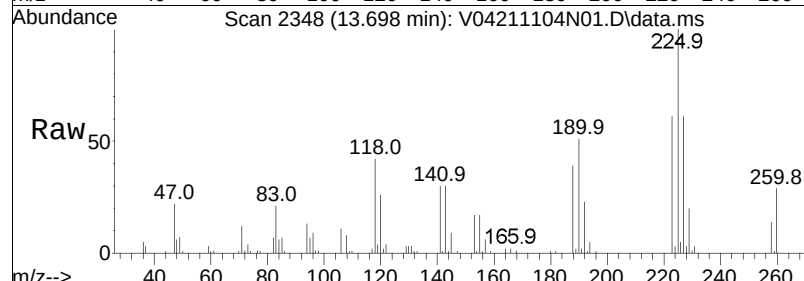
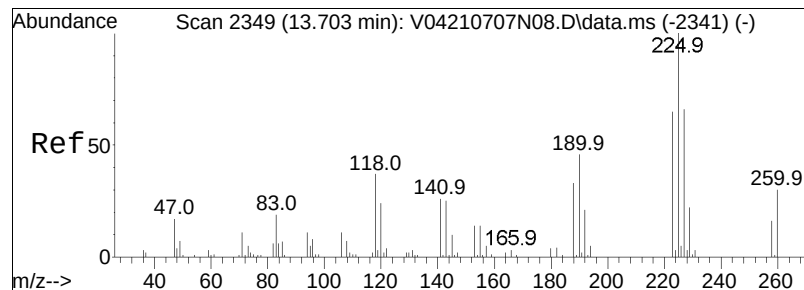




#106
 1,2-Dibromo-3-chloropropane
 Concen: 34.01 ug/L
 RT: 13.095 min Scan# 2233
 Delta R.T. -0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

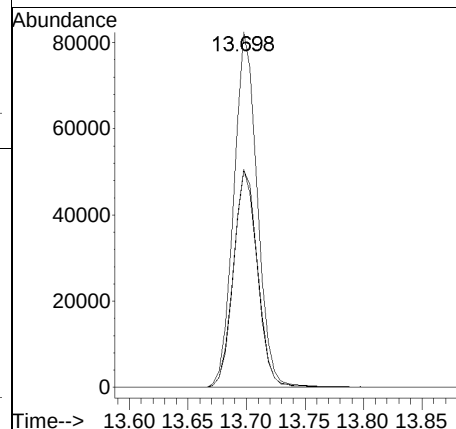
Tgt Ion	155	157	Ratio	100	130.7	Resp	18552	Lower	Upper
155	100								
157		130.7							
			103.2						
				154.8					

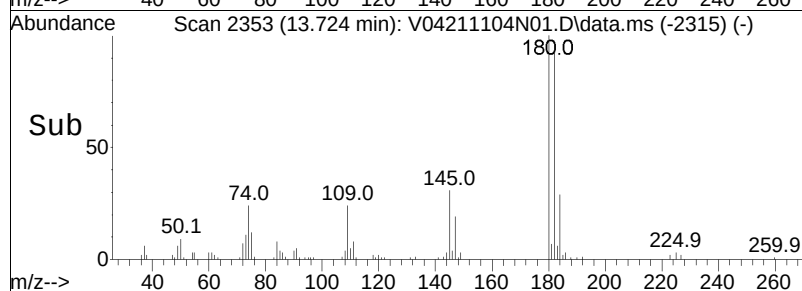
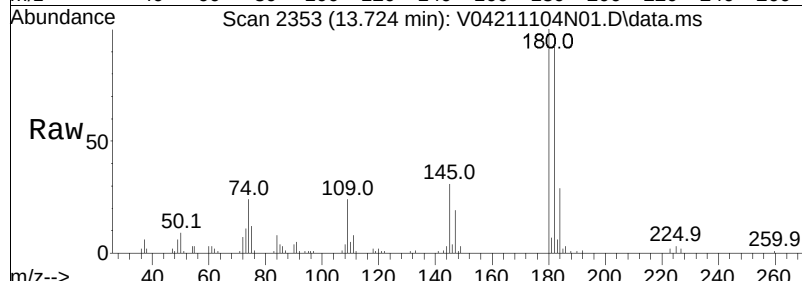
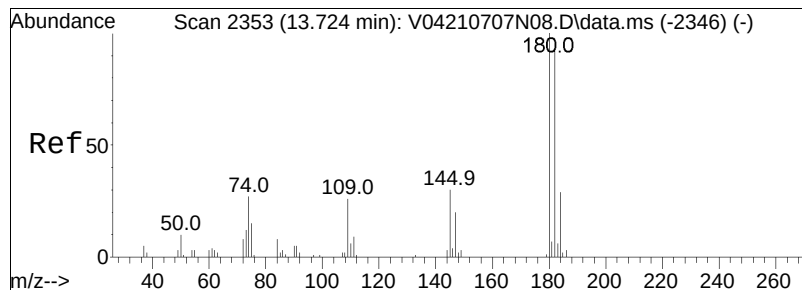




#108
 Hexachlorobutadiene
 Concen: 37.88 ug/L
 RT: 13.698 min Scan# 2348
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

Tgt Ion:	225	Resp:	115351
Ion Ratio	Lower	Upper	
225	100		
223	62.2	50.7	76.1
227	62.6	50.7	76.1





#109

1,2,4-Trichlorobenzene

Concen: 41.95 ug/L

RT: 13.724 min Scan# 2353

Delta R.T. -0.000 min

Lab File: V04211104N01.D

Acq: 4 Nov 2021 5:59 pm

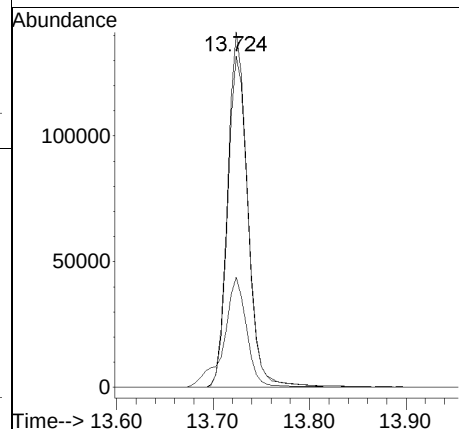
Tgt Ion:180 Resp: 206574

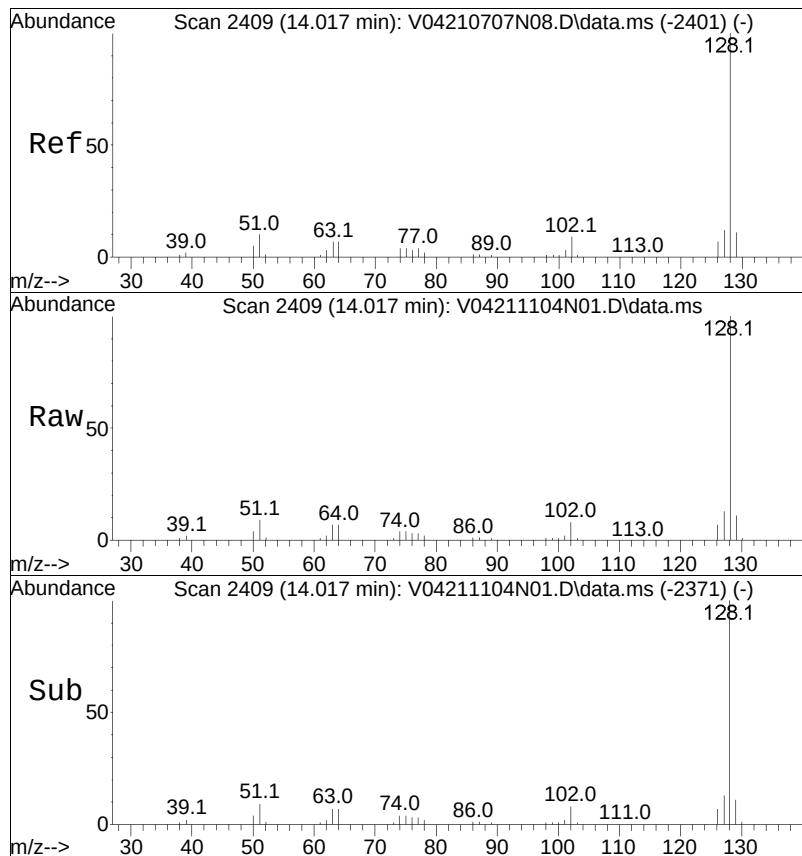
Ion Ratio Lower Upper

180 100

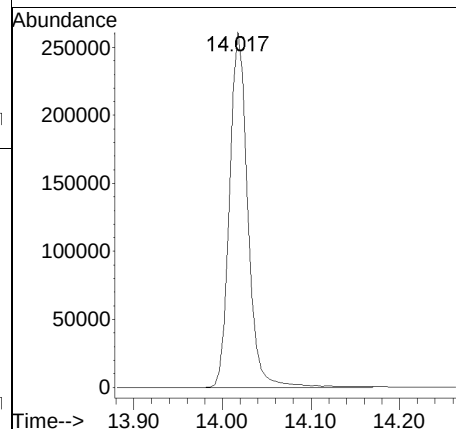
182 94.6 77.0 115.4

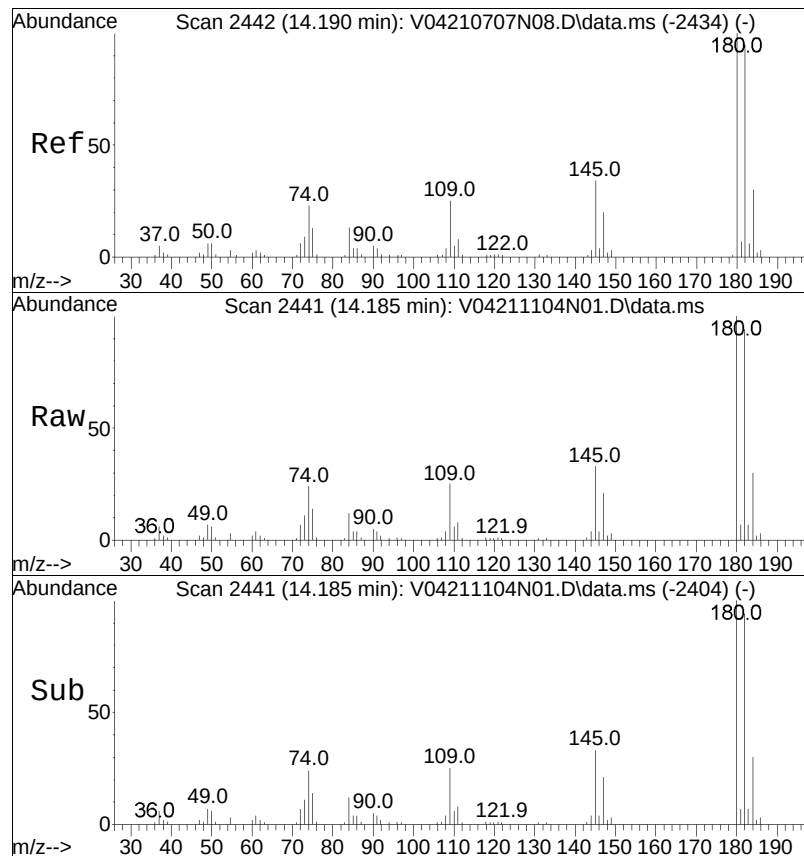
145 35.2 28.4 42.6





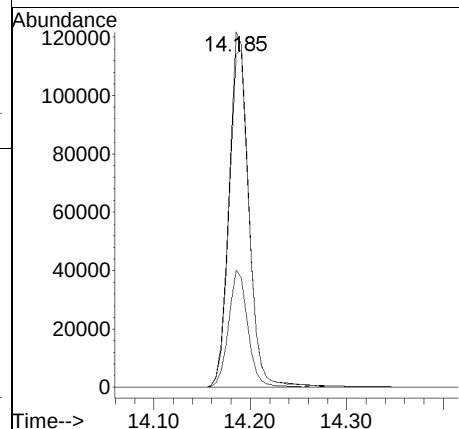
#110
 Naphthalene
 Concen: 35.70 ug/L
 RT: 14.017 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm
 Tgt Ion:128 Resp: 374114





#111
 1,2,3-Trichlorobenzene
 Concen: 39.06 ug/L
 RT: 14.185 min Scan# 2441
 Delta R.T. -0.005 min
 Lab File: V04211104N01.D
 Acq: 4 Nov 2021 5:59 pm

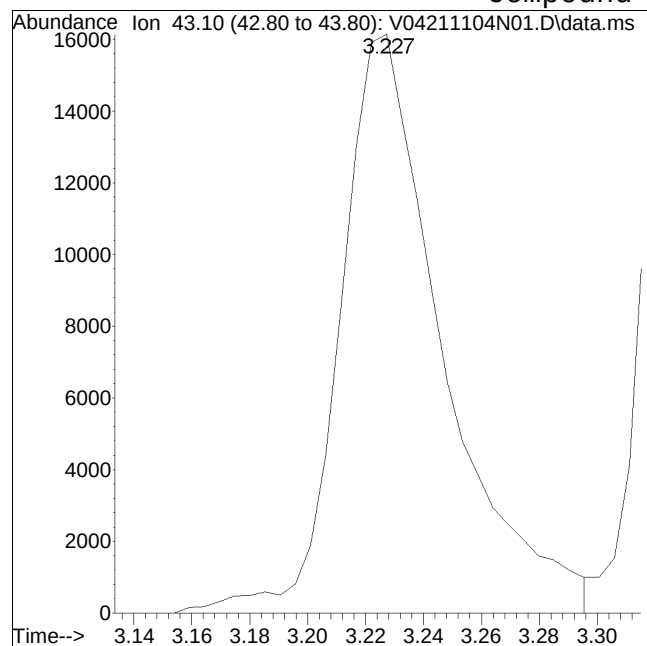
Tgt Ion:	180	Resp:	175163
Ion Ratio	Lower	Upper	
180	100		
182	96.0	75.9	113.9
145	32.1	25.8	38.6



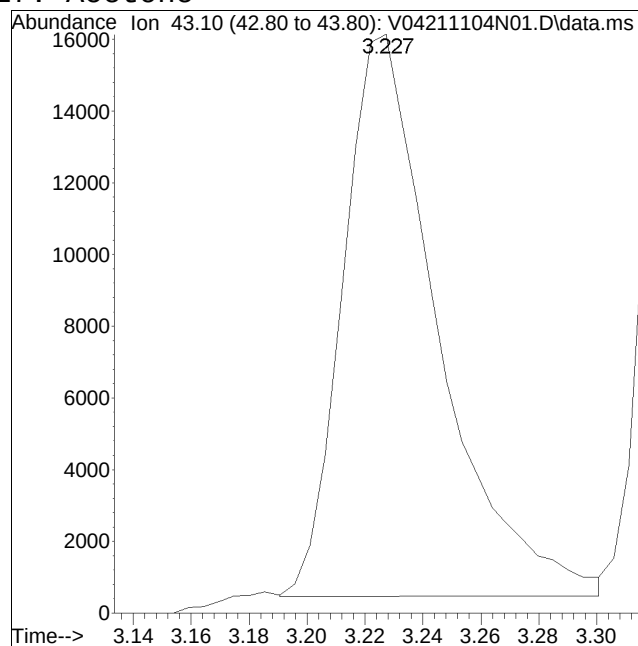
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N01.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 5:59 pm Instrument : VOA104
Sample : WG1567587-3,31,5,5 Quant Date : 11/4/2021 6:28 pm

Compound #17: Acetone



Original Peak Response = 39498



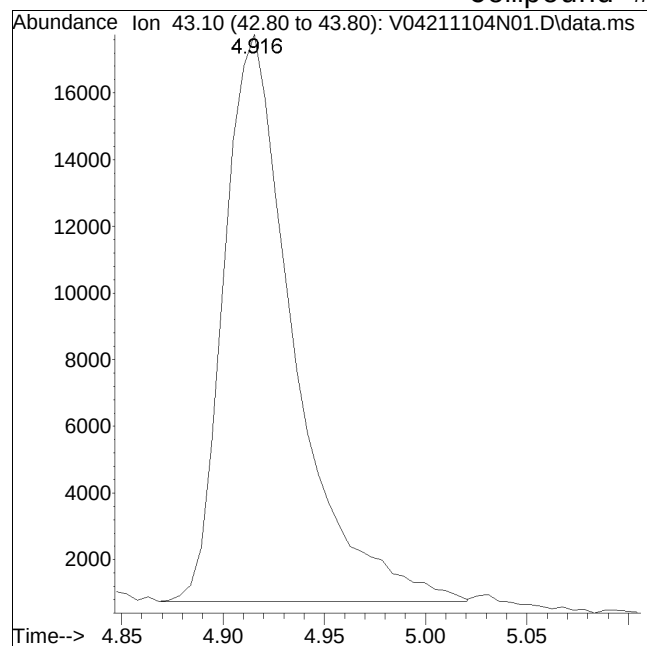
Manual Peak Response = 35851 M4

M4 = Poor automated baseline construction.

Manual Integration Report

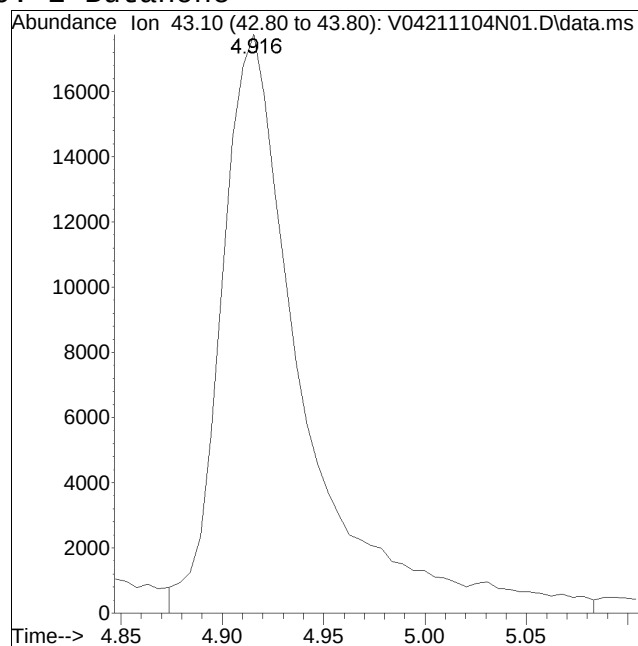
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N01.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 5:59 pm Instrument : VOA104
Sample : WG1567587-3,31,5,5 Quant Date : 11/4/2021 6:28 pm

Compound #39: 2-Butanone



Original Peak Response = 41065

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 50068 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A02.d
 Acq On : 4 Nov 2021 7:24 am
 Operator : VOA108:PD
 Sample : WG1567182-4,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 08:11:22 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.201	96	317895	10.000	ug/L	-0.01
Standard Area 1 = 317596			Recovery	=	100.09%	
59) Chlorobenzene-d5	8.305	117	239715	10.000	ug/L	0.00
Standard Area 1 = 234349			Recovery	=	102.29%	
79) 1,4-Dichlorobenzene-d4	9.820	152	123406	10.000	ug/L	0.00
Standard Area 1 = 124409			Recovery	=	99.19%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.178	113	83967	9.597	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	95.97%	
43) 1,2-Dichloroethane-d4	4.844	65	92863	10.396	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.96%	
60) Toluene-d8	6.941	98	288100	9.448	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.48%	
83) 4-Bromofluorobenzene	9.144	95	110097	9.730	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.30%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.891	85	67588	8.808	ug/L	99
3) Chloromethane	0.996	50	106345	10.323	ug/L	99
4) Vinyl chloride	1.048	62	88448	9.172	ug/L	99
5) Bromomethane	1.232	94	46302	11.039	ug/L	97
6) Chloroethane	1.310	64	56816	12.706	ug/L	98
7) Trichlorofluoromethane	1.400	101	111915	10.809	ug/L	98
8) Ethyl ether	1.609	74	31163	11.402	ug/L	91
10) 1,1-Dichloroethene	1.730	96	67970	11.406	ug/L	79
11) Carbon disulfide	1.735	76	208916	11.705	ug/L	97
15) Methylene chloride	2.176	84	74792	11.427	ug/L	97
17) Acetone	2.223	43	13919	10.900	ug/L	95
18) trans-1,2-Dichloroethene	2.301	96	75578	11.394	ug/L	88
20) Methyl tert-butyl ether	2.422	73	140476	10.876	ug/L #	90
23) 1,1-Dichloroethane	2.883	63	136517	8.994	ug/L	99
25) Acrylonitrile	2.941	53	14154	7.548	ug/L	94
27) Vinyl acetate	3.214	43	122877	8.089	ug/L	100
28) cis-1,2-Dichloroethene	3.512	96	73311	8.956	ug/L	80
29) 2,2-Dichloropropane	3.628	77	99525	10.775	ug/L #	81
30) Bromochloromethane	3.759	128	33025	9.032	ug/L #	76
32) Chloroform	3.921	83	140594	10.571	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A02.d
 Acq On : 4 Nov 2021 7:24 am
 Operator : VOA108:PD
 Sample : WG1567182-4,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 08:11:22 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
34)	Carbon tetrachloride	4.042	117	89596	9.507	ug/L		95
37)	1,1,1-Trichloroethane	4.142	97	112500	10.327	ug/L	#	97
39)	2-Butanone	4.383	43	17743	8.071	ug/L	#	72
40)	1,1-Dichloropropene	4.330	75	87105	9.141	ug/L		96
41)	Benzene	4.655	78	282524	9.499	ug/L		98
44)	1,2-Dichloroethane	4.933	62	94275	9.773	ug/L		98
48)	Trichloroethene	5.410	95	74365	9.605	ug/L		97
50)	Dibromomethane	5.867	93	34759	9.058	ug/L		95
51)	1,2-Dichloropropane	5.977	63	80041	9.891	ug/L		94
54)	Bromodichloromethane	6.097	83	85264	9.374	ug/L		98
57)	1,4-Dioxane	6.328	88	14399	469.186	ug/L		95
58)	cis-1,3-Dichloropropene	6.763	75	83146	8.114	ug/L		92
61)	Toluene	6.994	92	173680	9.157	ug/L		97
62)	4-Methyl-2-pentanone	7.429	58	13277	7.553	ug/L		80
63)	Tetrachloroethene	7.366	166	73336	9.753	ug/L		91
65)	trans-1,3-Dichloropropene	7.445	75	65144	8.088	ug/L		91
68)	1,1,2-Trichloroethane	7.581	83	38697	9.259	ug/L		94
69)	Chlorodibromomethane	7.728	129	49962	8.272	ug/L		96
70)	1,3-Dichloropropane	7.801	76	79548	9.073	ug/L		99
71)	1,2-Dibromoethane	7.885	107	43298	9.136	ug/L		100
72)	2-Hexanone	8.153	43	22421	7.259	ug/L		97
73)	Chlorobenzene	8.320	112	193990	9.598	ug/L		90
74)	Ethylbenzene	8.362	91	331135	9.556	ug/L		100
75)	1,1,1,2-Tetrachloroethane	8.383	131	57865	8.890	ug/L		94
76)	p/m Xylene	8.472	106	257193	19.693	ug/L		99
77)	o Xylene	8.761	106	246963	19.821	ug/L		96
78)	Styrene	8.803	104	405030	20.860	ug/L		92
80)	Bromoform	8.808	173	24100	7.981	ug/L		93
82)	Isopropylbenzene	8.976	105	320164	10.002	ug/L		96
84)	Bromobenzene	9.201	156	76406	9.575	ug/L		97
85)	n-Propylbenzene	9.238	91	394088	10.304	ug/L		97
87)	1,1,2,2-Tetrachloroethane	9.296	83	47812	9.199	ug/L		94
88)	4-Ethyltoluene	9.311	105	320244	10.412	ug/L		96
89)	2-Chlorotoluene	9.322	91	285410	10.516	ug/L		98
90)	1,3,5-Trimethylbenzene	9.369	105	267785	9.888	ug/L		92
91)	1,2,3-Trichloropropane	9.364	75	39353	9.054	ug/L		95
92)	trans-1,4-Dichloro-2-b...	9.400	53	16332	9.277	ug/L	#	73
93)	4-Chlorotoluene	9.427	91	251935	10.212	ug/L		96
94)	tert-Butylbenzene	9.552	119	237795	9.910	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
 Data File : V08211104A02.d
 Acq On : 4 Nov 2021 7:24 am
 Operator : VOA108:PD
 Sample : WG1567182-4,31,10,10
 Misc : WG1567182,ICAL18356
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 08:11:22 2021
 Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Oct 06 10:31:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2021\211104A\V08211104A01.d
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.594	105	264544	9.940	ug/L	94
98)	sec-Butylbenzene	9.657	105	356046	10.400	ug/L	100
99)	p-Isopropyltoluene	9.746	119	302062	10.181	ug/L	97
100)	1,3-Dichlorobenzene	9.778	146	155746	9.878	ug/L	99
101)	1,4-Dichlorobenzene	9.830	146	157837	9.866	ug/L	98
102)	p-Diethylbenzene	9.956	119	176264	9.980	ug/L	93
103)	n-Butylbenzene	9.988	91	282606	10.675	ug/L	99
104)	1,2-Dichlorobenzene	10.072	146	141381	9.738	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.418	119	264972	8.991	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.528	155	5818	8.190	ug/L	98
108)	Hexachlorobutadiene	10.889	225	51253	10.494	ug/L	94
109)	1,2,4-Trichlorobenzene	10.905	180	89934	9.085	ug/L	98
110)	Naphthalene	11.083	128	130489	7.467	ug/L	100
111)	1,2,3-Trichlorobenzene	11.183	180	69224	8.139	ug/L	99

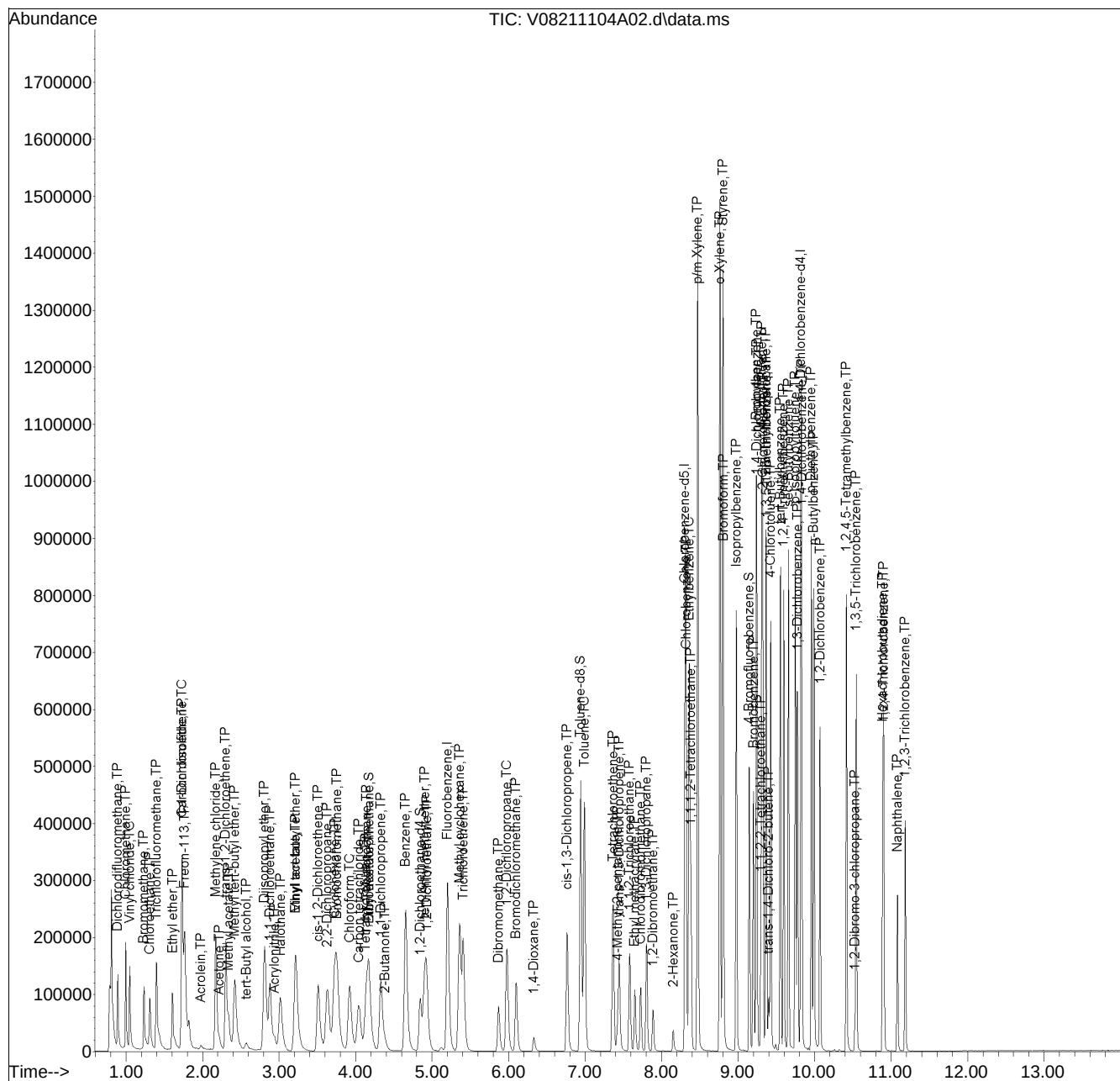
(#) = qualifier out of range (m) = manual integration (+) = signals summed

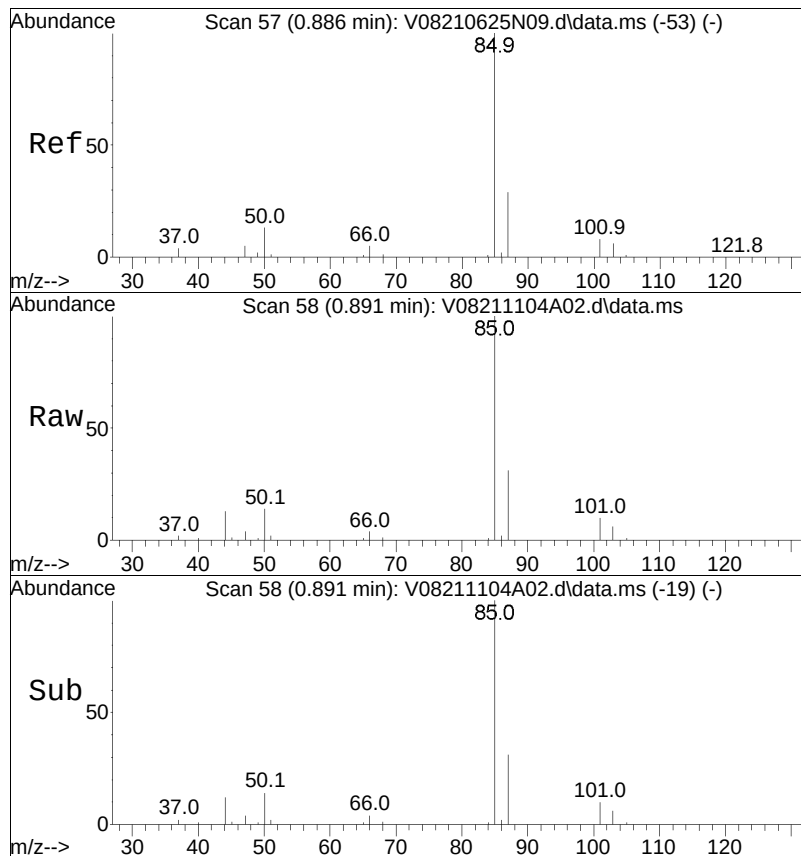
(QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2021\211104A\
Data File : V08211104A02.d
Acq On : 4 Nov 2021 7:24 am
Operator : VOA108:PD
Sample : WG1567182-4, 31, 10, 10
Misc : WG1567182, ICAL18356
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 08:11:22 2021
Quant Method : I:\VOLATILES\VOA108\2021\211104A\V108_211004N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 10:31:08 2021
Response via : Initial Calibration

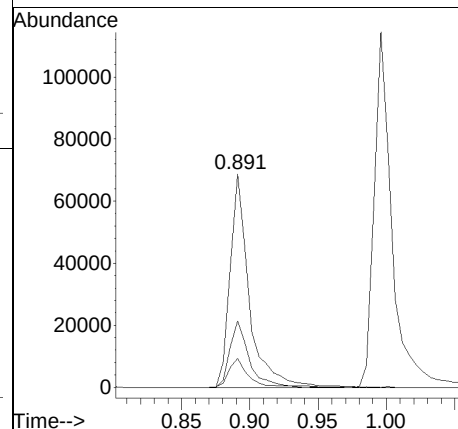
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

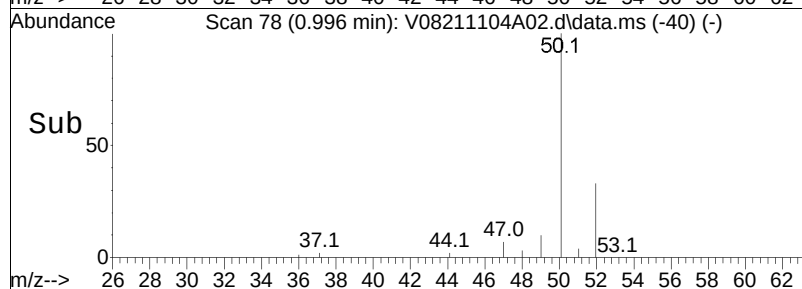
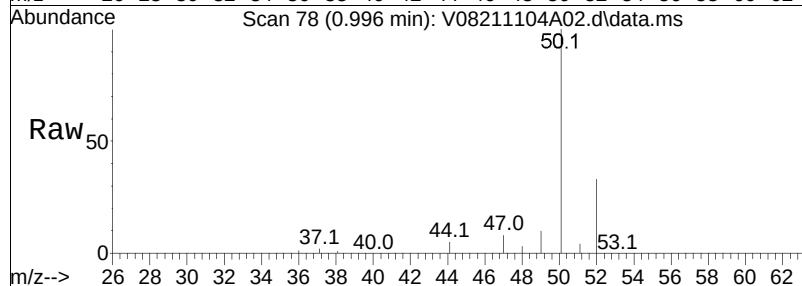
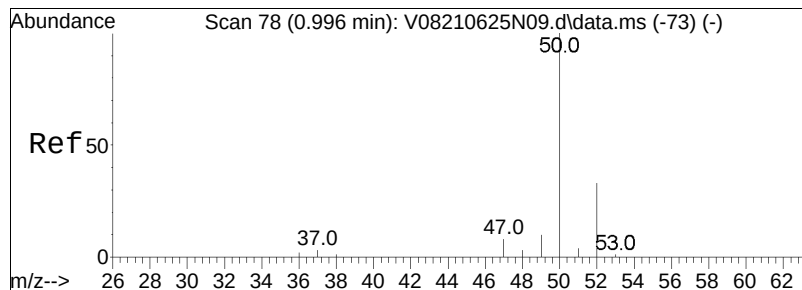




#2
 Dichlorodifluoromethane
 Concen: 8.81 ug/L
 RT: 0.891 min Scan# 58
 Delta R.T. 0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion:	85	Resp:	67588
Ion Ratio	Lower	Upper	
85	100		
87	31.7	21.0	43.6
50	13.6	8.9	18.5





#3

Chloromethane

Concen: 10.32 ug/L

RT: 0.996 min Scan# 78

Delta R.T. -0.000 min

Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am

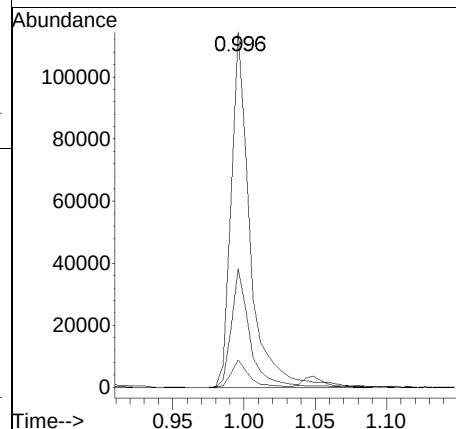
Tgt Ion: 50 Resp: 106345

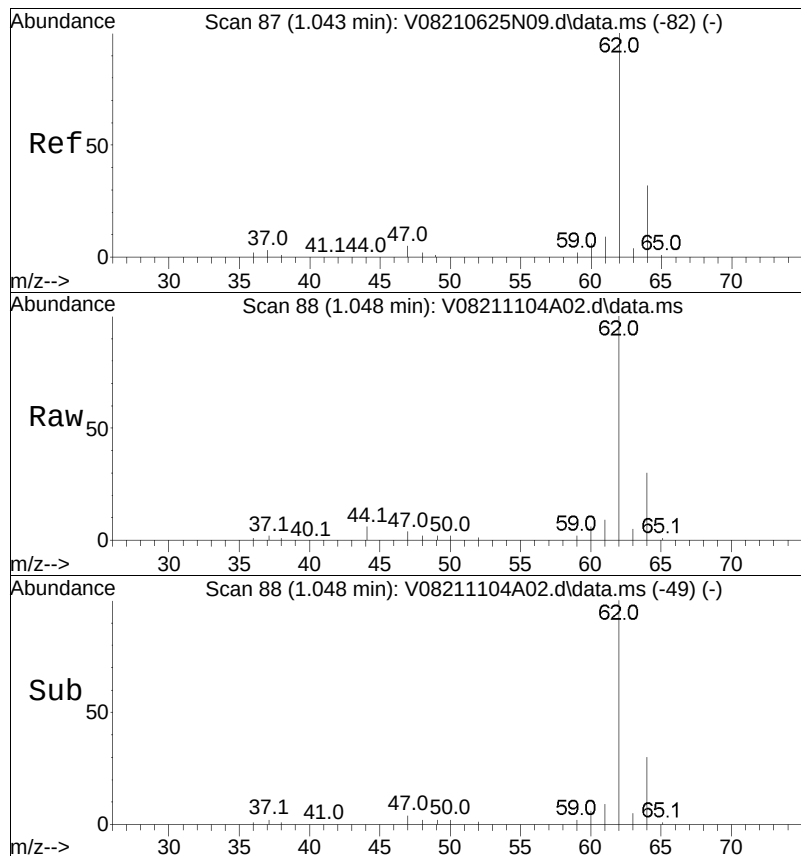
Ion Ratio Lower Upper

50 100

52 32.7 12.9 52.9

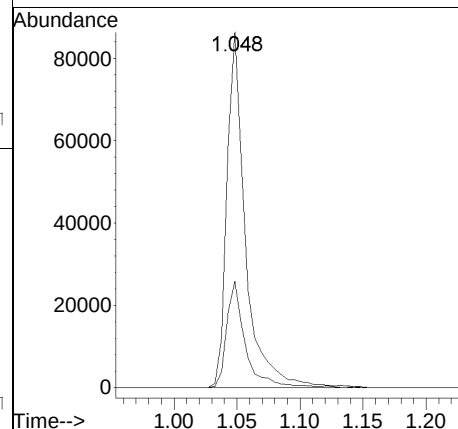
47 7.3 0.0 28.3

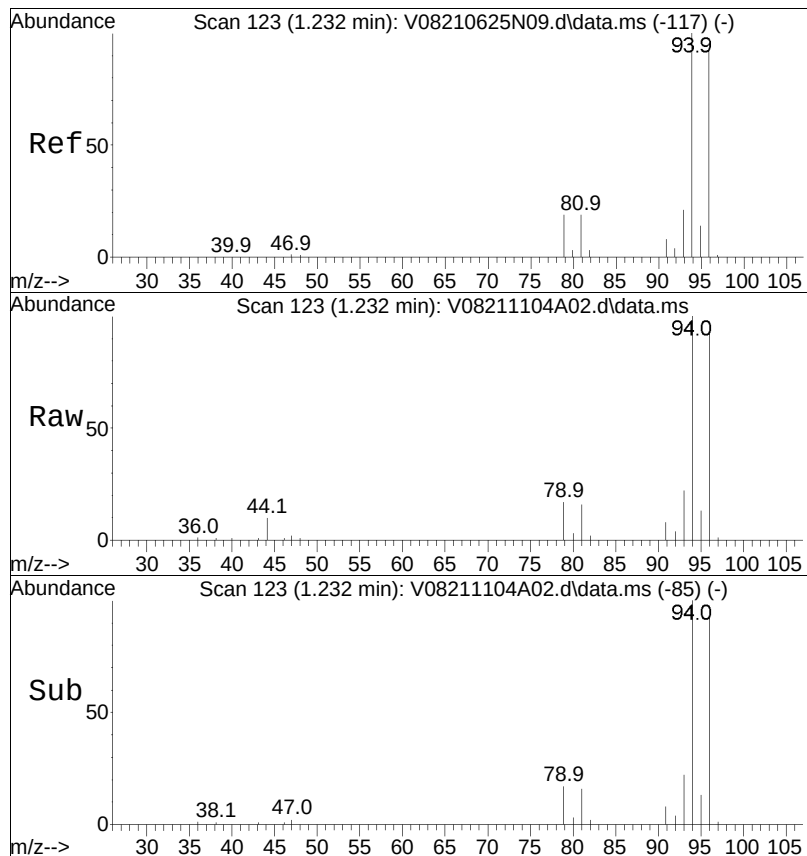




#4
 Vinyl chloride
 Concen: 9.17 ug/L
 RT: 1.048 min Scan# 88
 Delta R.T. 0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

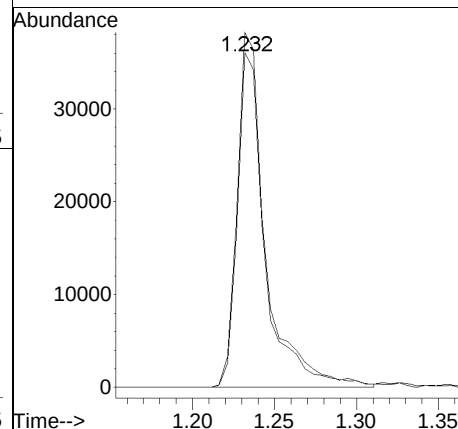
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.9	9.1	49.1

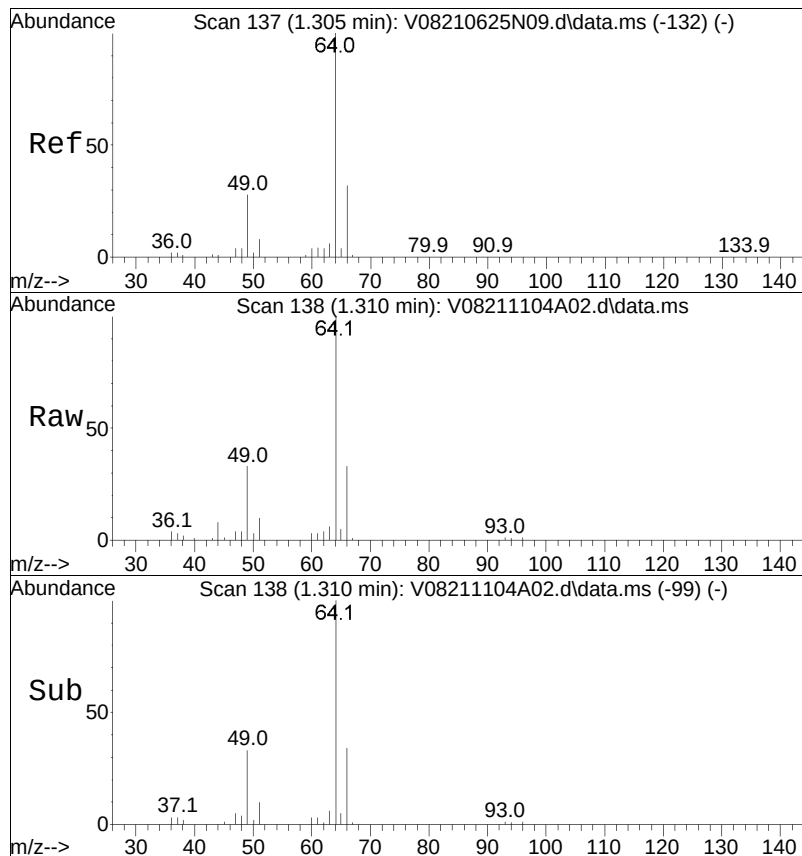




#5
 Bromomethane
 Concen: 11.04 ug/L
 RT: 1.232 min Scan# 123
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

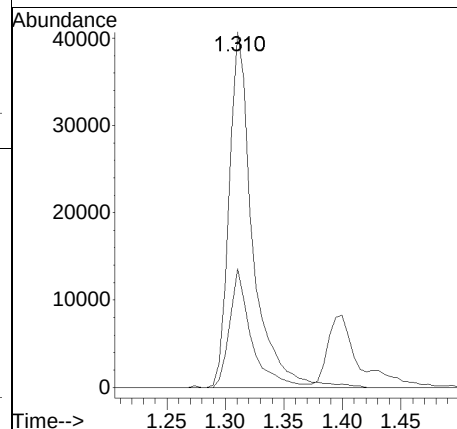
Tgt Ion: 94 Resp: 46302
 Ion Ratio Lower Upper
 94 100
 96 93.0 75.6 115.6

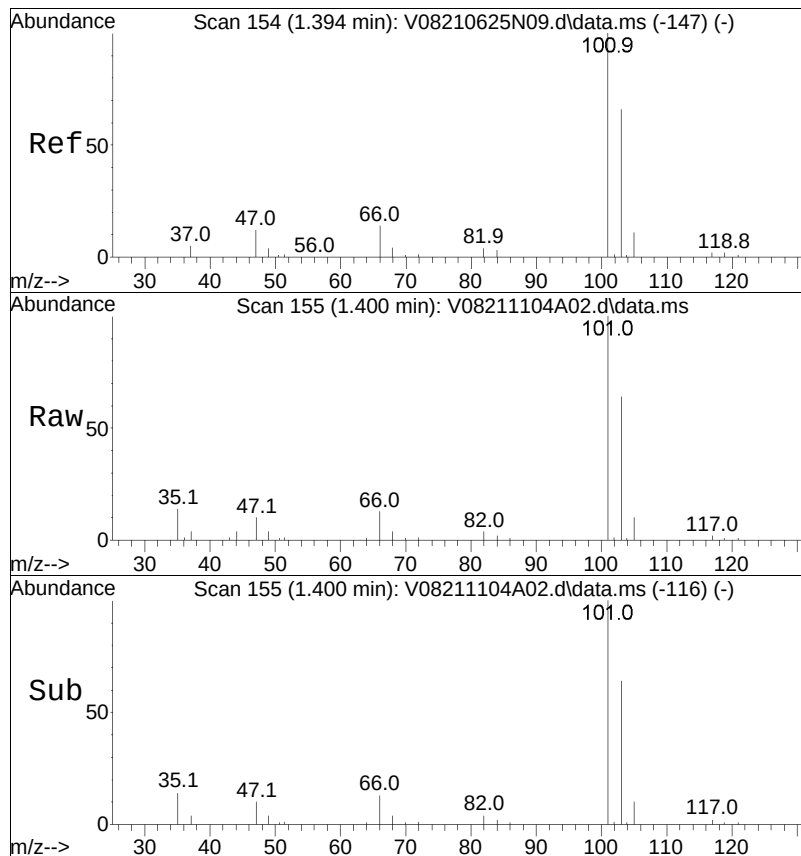




#6
 Chloroethane
 Concen: 12.71 ug/L
 RT: 1.310 min Scan# 138
 Delta R.T. 0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

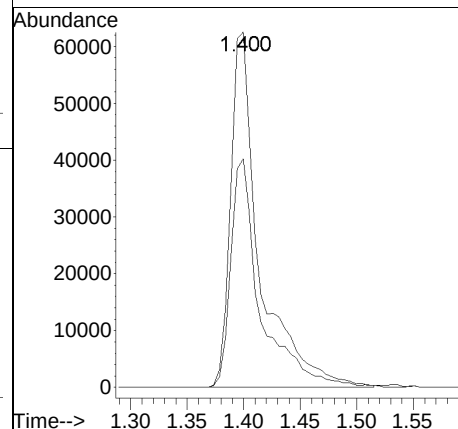
Tgt	Ion	Resp	Lower	Upper
64	100	56816		
66	30.7	9.8	49.8	

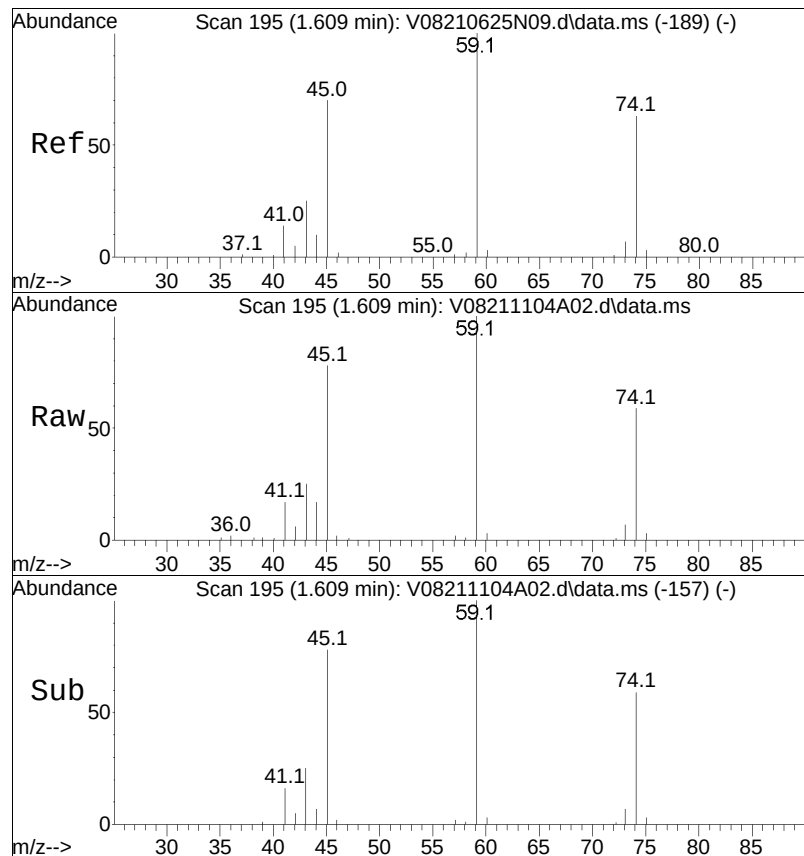




#7
 Trichlorofluoromethane
 Concen: 10.81 ug/L
 RT: 1.400 min Scan# 155
 Delta R.T. 0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

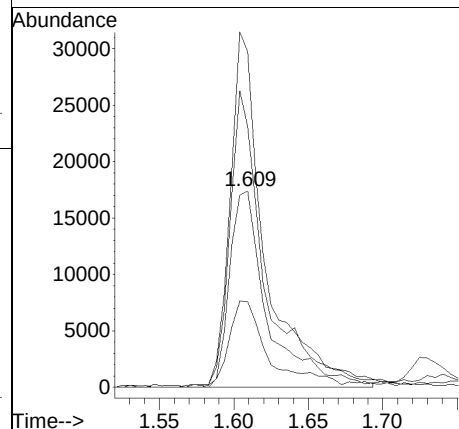
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.7	53.8	80.6

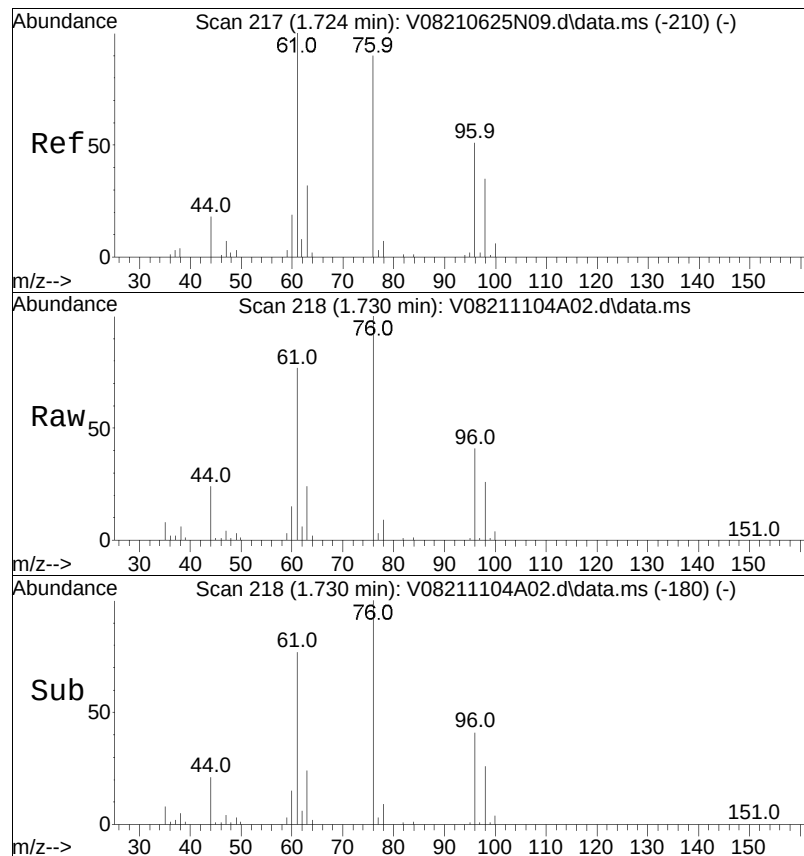




#8
 Ethyl ether
 Concen: 11.40 ug/L
 RT: 1.609 min Scan# 195
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

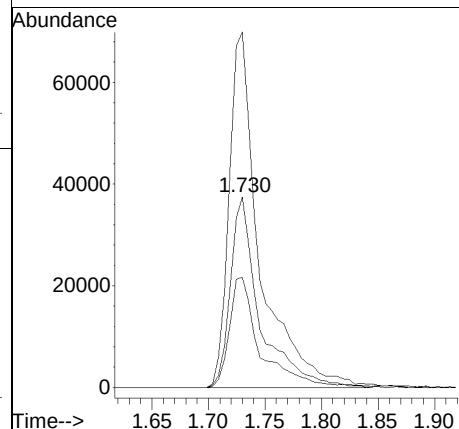
Tgt Ion: 74	Resp:	31163
Ion Ratio	Lower	Upper
74	100	
59	168.6	122.2 253.8
45	142.9	91.9 190.9
43	46.2	25.2 52.2

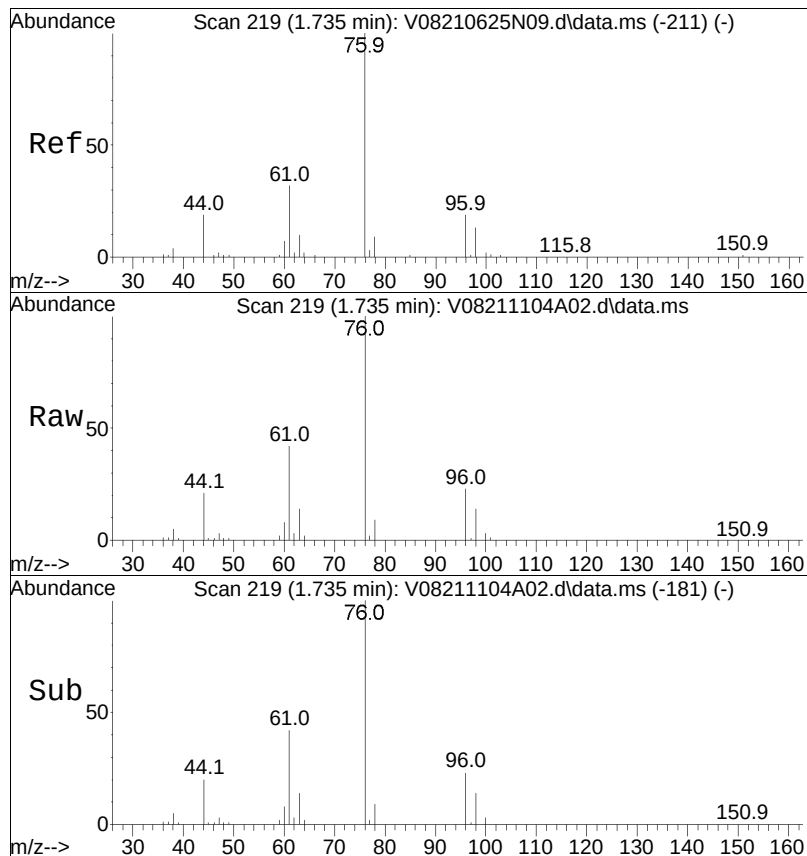




#10
 1,1-Dichloroethene
 Concen: 11.41 ug/L
 RT: 1.730 min Scan# 218
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

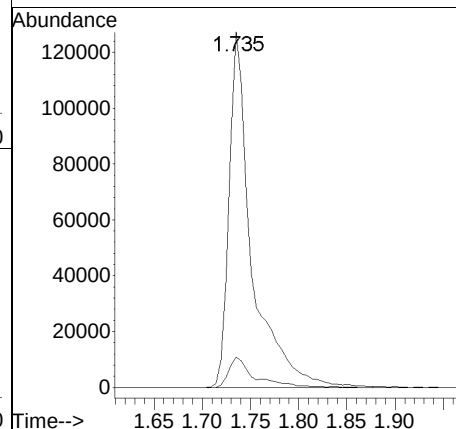
Tgt	Ion: 96	Resp:	67970
Ion	Ratio	Lower	Upper
96	100		
61	195.0	186.1	279.1
63	60.1	57.6	86.4

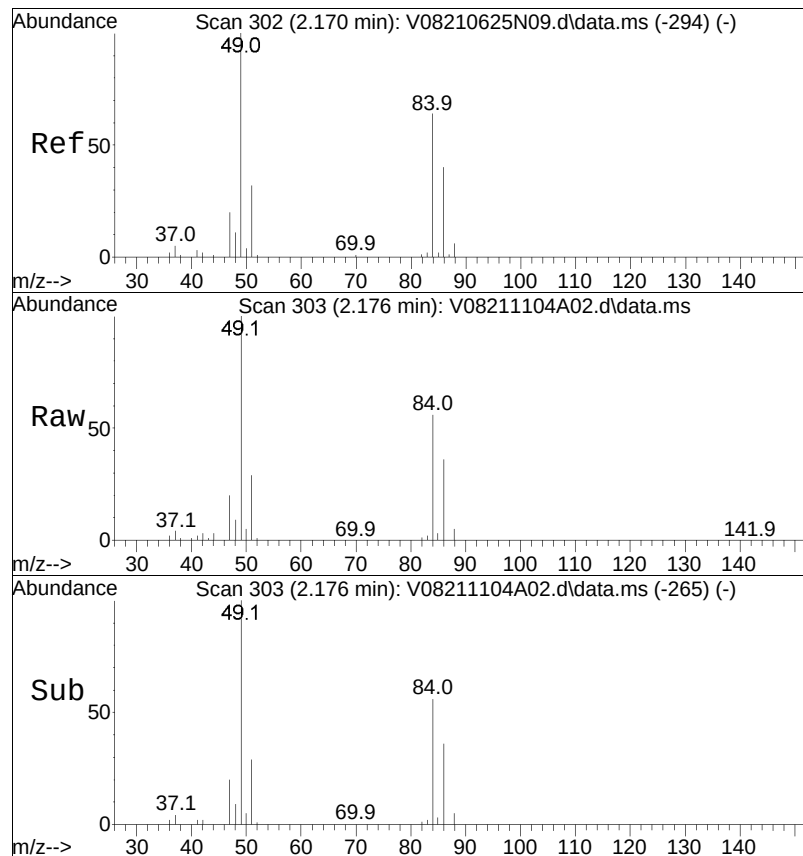




#11
 Carbon disulfide
 Concen: 11.70 ug/L
 RT: 1.735 min Scan# 219
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

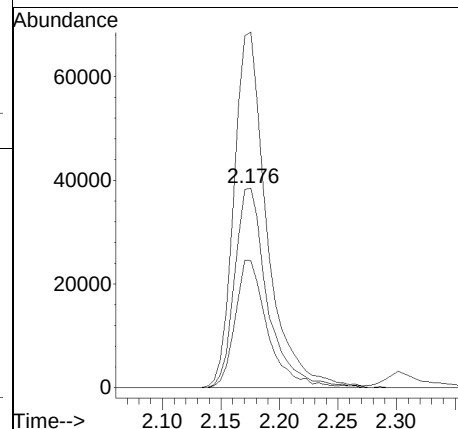
Tgt Ion:	76	Resp:	208916
Ion Ratio	100	Lower	Upper
76	100		
78	9.6	5.7	11.7

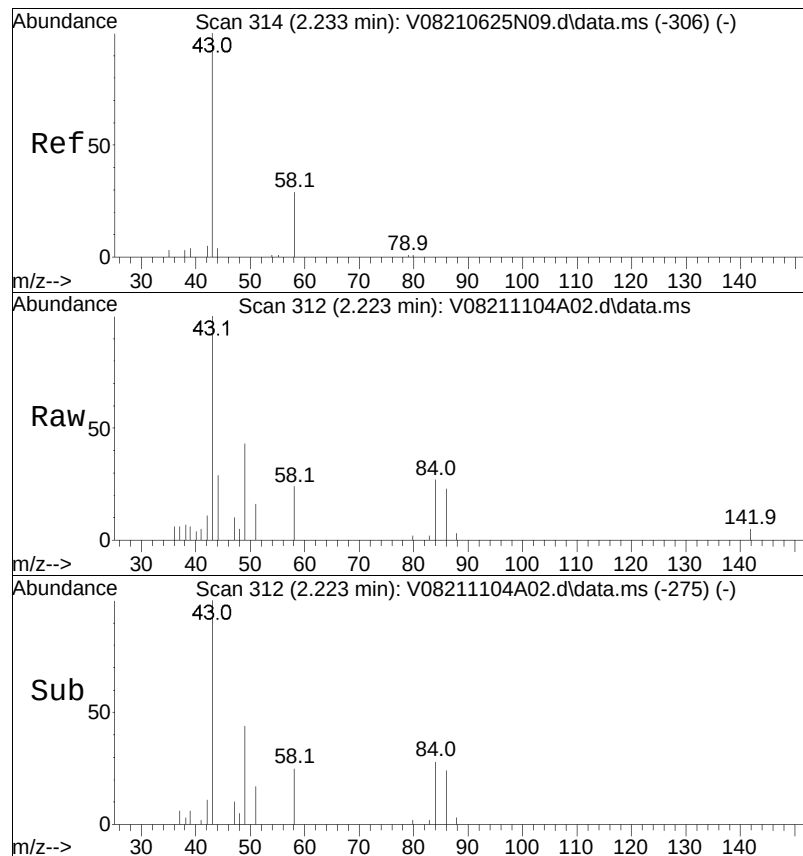




#15
 Methylene chloride
 Concen: 11.43 ug/L
 RT: 2.176 min Scan# 303
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

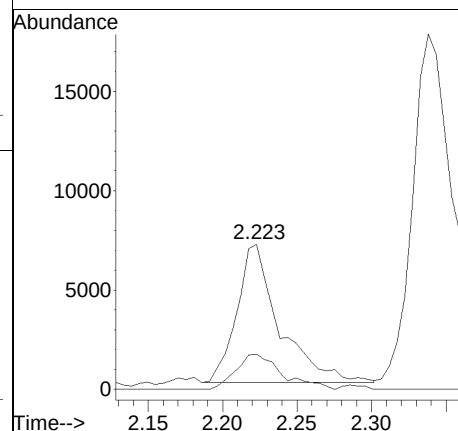
Tgt	Ion: 84	Resp:	74792
Ion	Ratio	Lower	Upper
84	100		
86	63.3	40.4	83.8
49	179.5	120.0	249.2

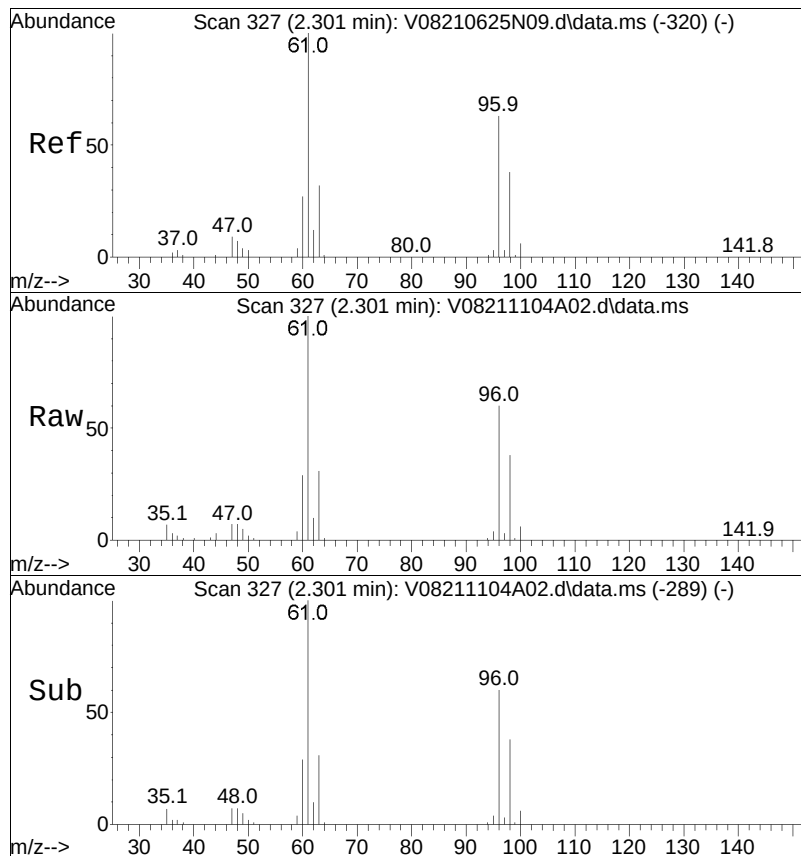




#17
 Acetone
 Concen: 10.90 ug/L
 RT: 2.223 min Scan# 312
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

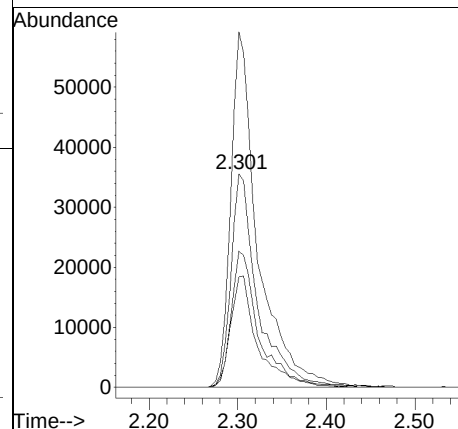
Tgt	Ion	Resp	Lower	Upper
43	100	13919		
58	27.5	24.2	36.4	

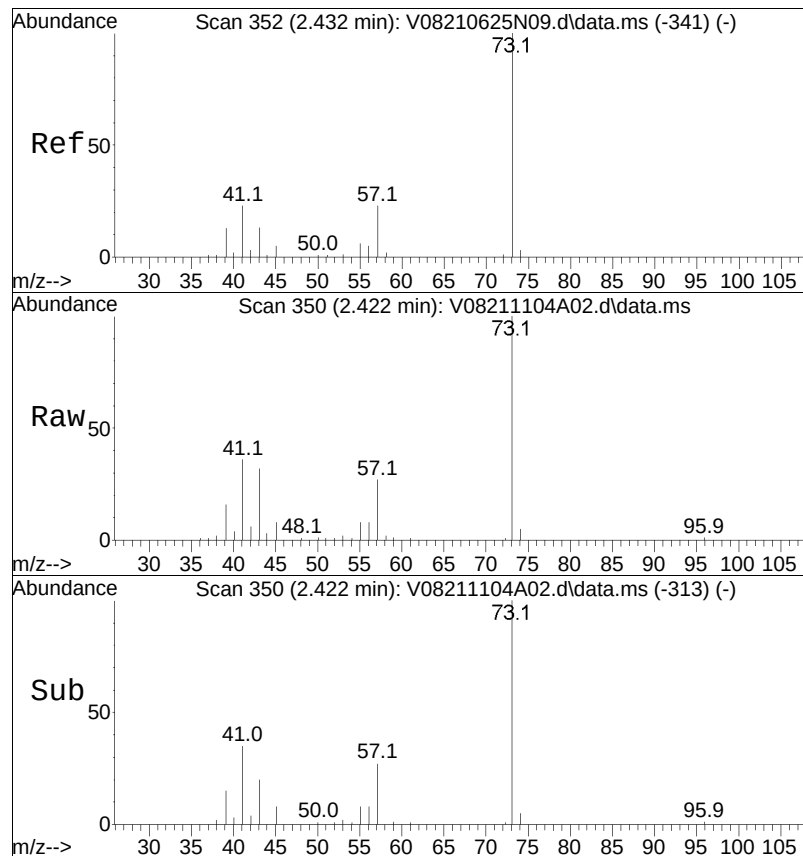




#18
 trans-1,2-Dichloroethene
 Concen: 11.39 ug/L
 RT: 2.301 min Scan# 327
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

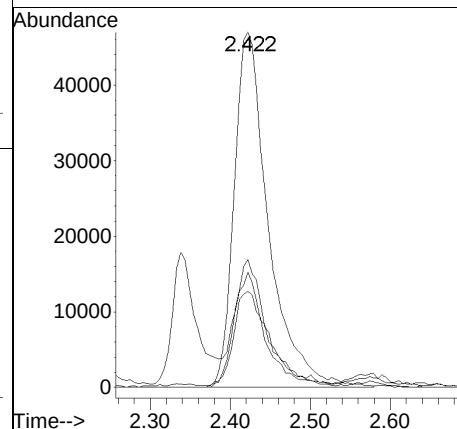
Tgt Ion: 96	Resp: 75578
Ion Ratio	Lower Upper
96 100	
61 168.0	124.0 257.6
98 65.1	41.2 85.6
63 52.6	38.4 79.7

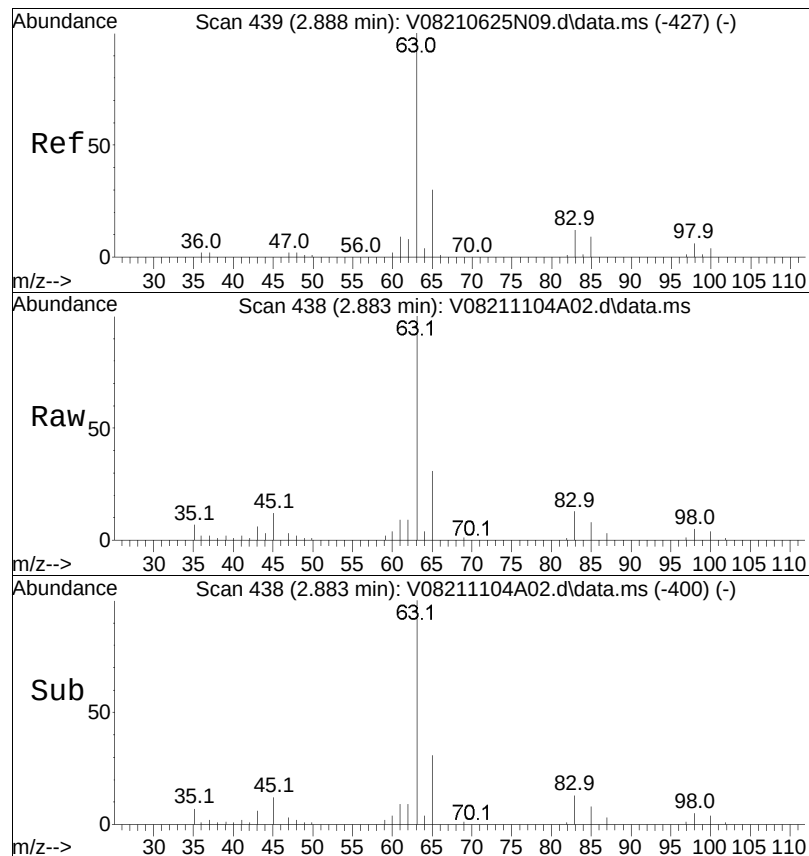




#20
Methyl tert-butyl ether
Concen: 10.88 ug/L
RT: 2.422 min Scan# 350
Delta R.T. -0.005 min
Lab File: V08211104A02.d
Acq: 4 Nov 2021 7:24 am

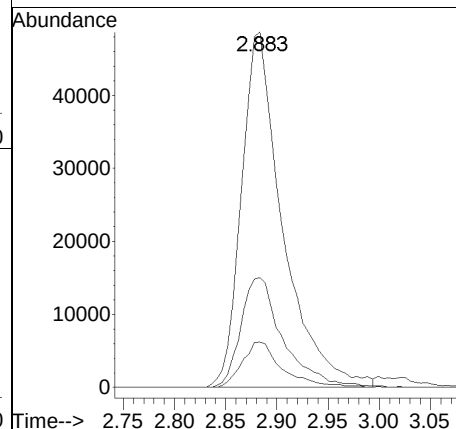
Tgt Ion:	73	Resp:	140476
Ion	Ratio	Lower	Upper
73	100		
57	27.0	17.5	36.3
43	29.8	15.3	31.9
41	32.7	15.3	31.7#

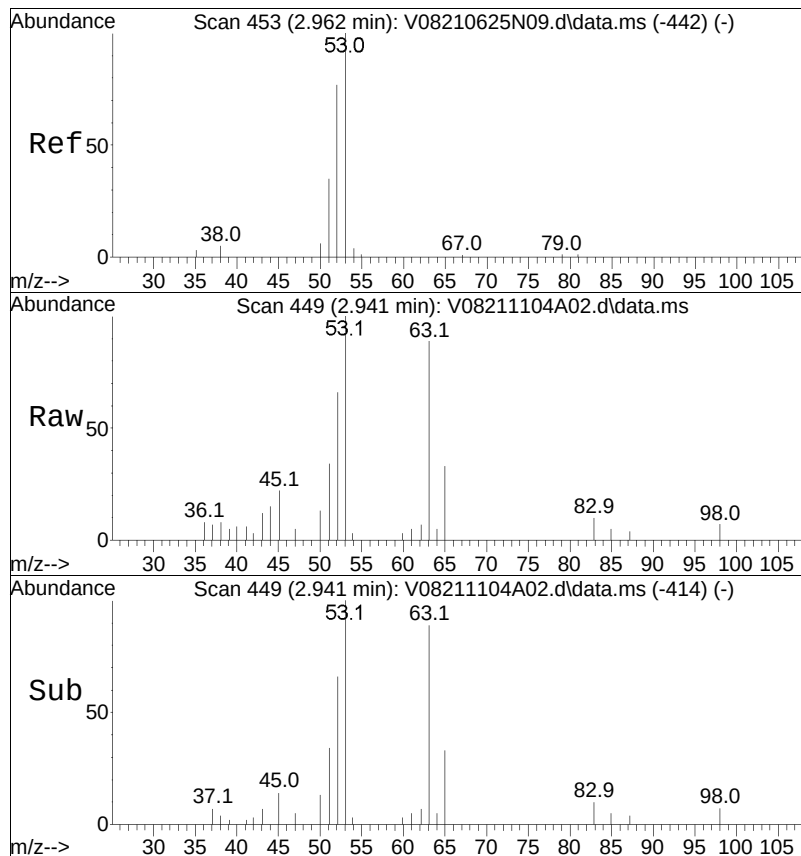




#23
 1,1-Dichloroethane
 Concen: 8.99 ug/L
 RT: 2.883 min Scan# 438
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

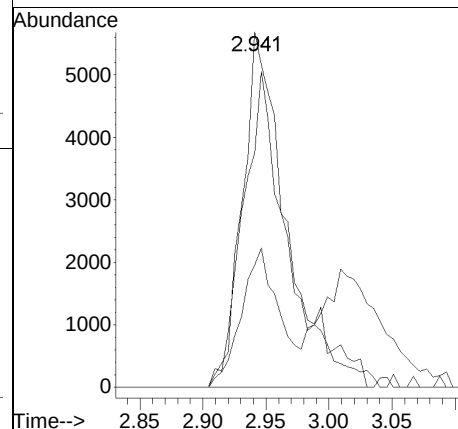
Tgt Ion:	63	Resp:	136517
Ion Ratio	Lower	Upper	
63	100		
65	31.7	11.0	51.0
83	12.5	0.0	31.8

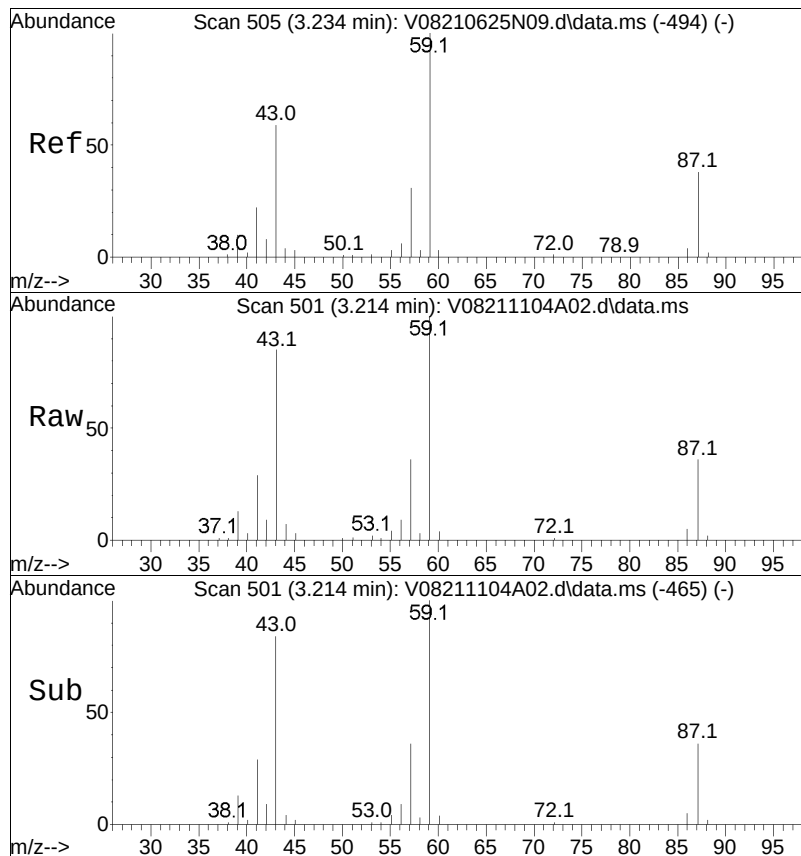




#25
 Acrylonitrile
 Concen: 7.55 ug/L
 RT: 2.941 min Scan# 449
 Delta R.T. -0.016 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

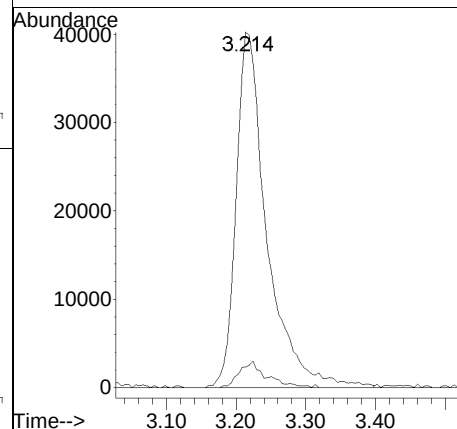
Tgt Ion	Ratio	Lower	Upper
53	100		
52	87.8	66.7	100.1
51	33.6	30.6	46.0

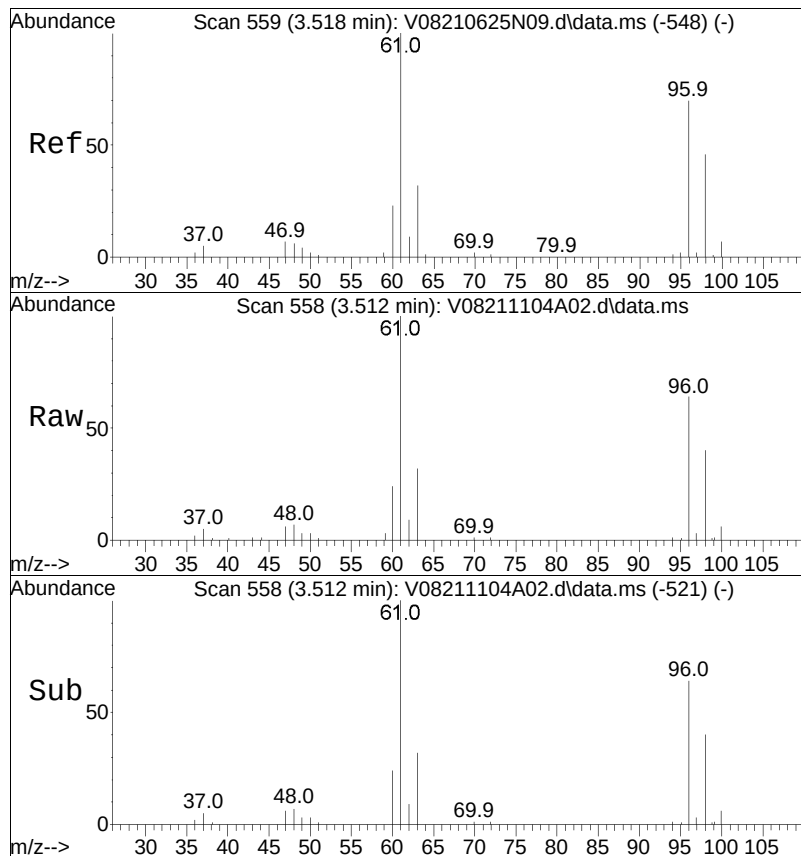




#27
 Vinyl acetate
 Concen: 8.09 ug/L
 RT: 3.214 min Scan# 501
 Delta R.T. -0.010 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

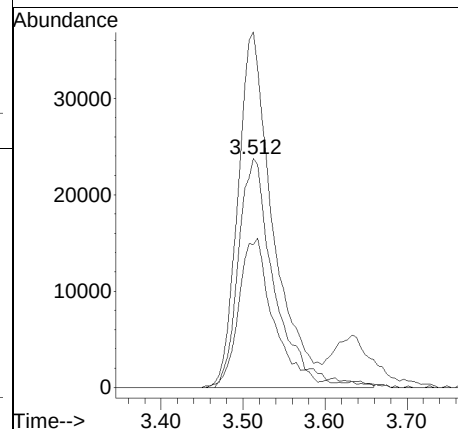
Tgt Ion: 43 Resp: 122877
 Ion Ratio Lower Upper
 43 100
 86 6.5 5.2 7.8

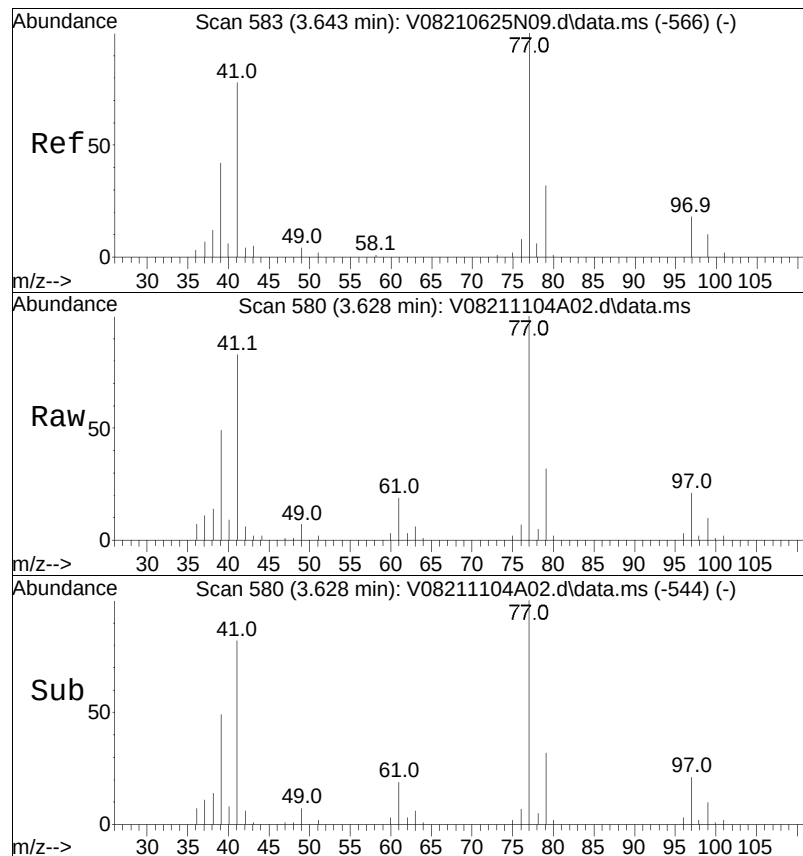




#28
 cis-1,2-Dichloroethene
 Concen: 8.96 ug/L
 RT: 3.512 min Scan# 558
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

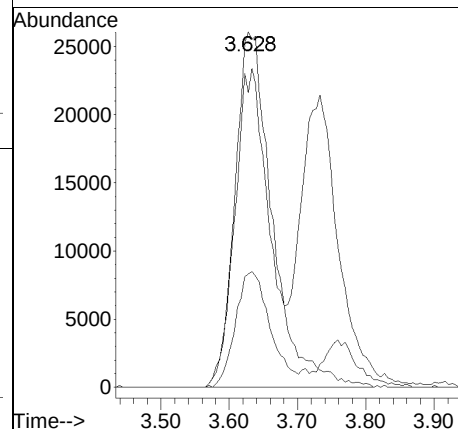
Tgt Ion:	96	Resp:	73311
Ion Ratio	Lower	Upper	
96	100		
61	149.6	149.4	224.2
98	63.2	53.4	80.2

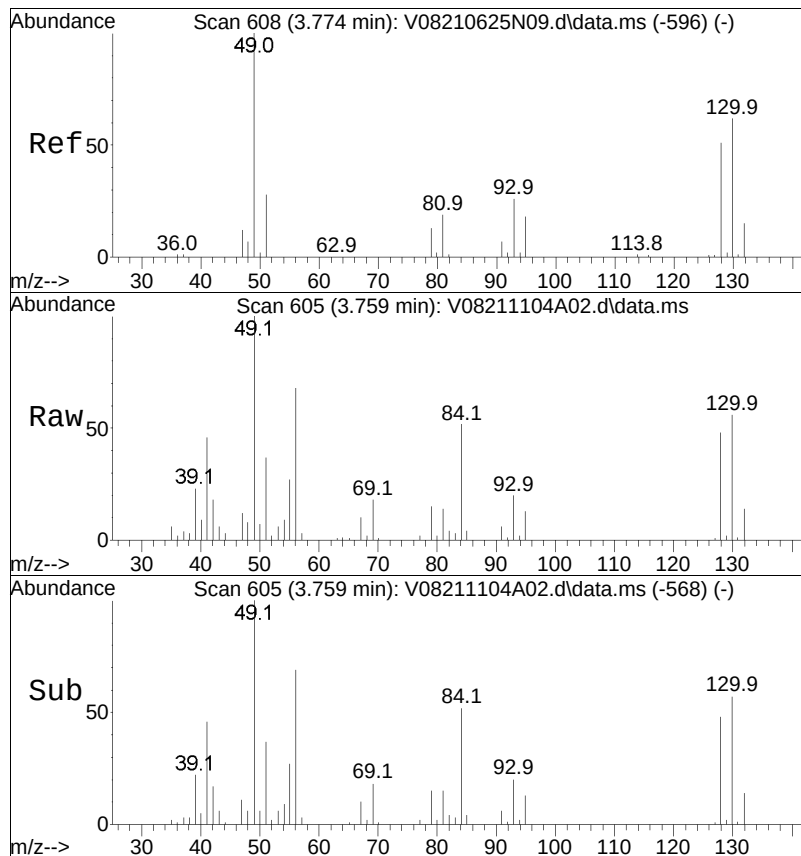




#29
 2,2-Dichloropropane
 Concen: 10.77 ug/L
 RT: 3.628 min Scan# 580
 Delta R.T. -0.010 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

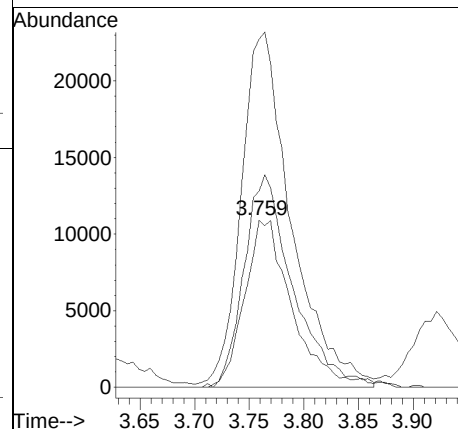
Tgt Ion:	77	Resp:	99525
Ion Ratio	Lower	Upper	
77	100		
41	79.3	38.0	78.8#
79	30.6	20.5	42.5

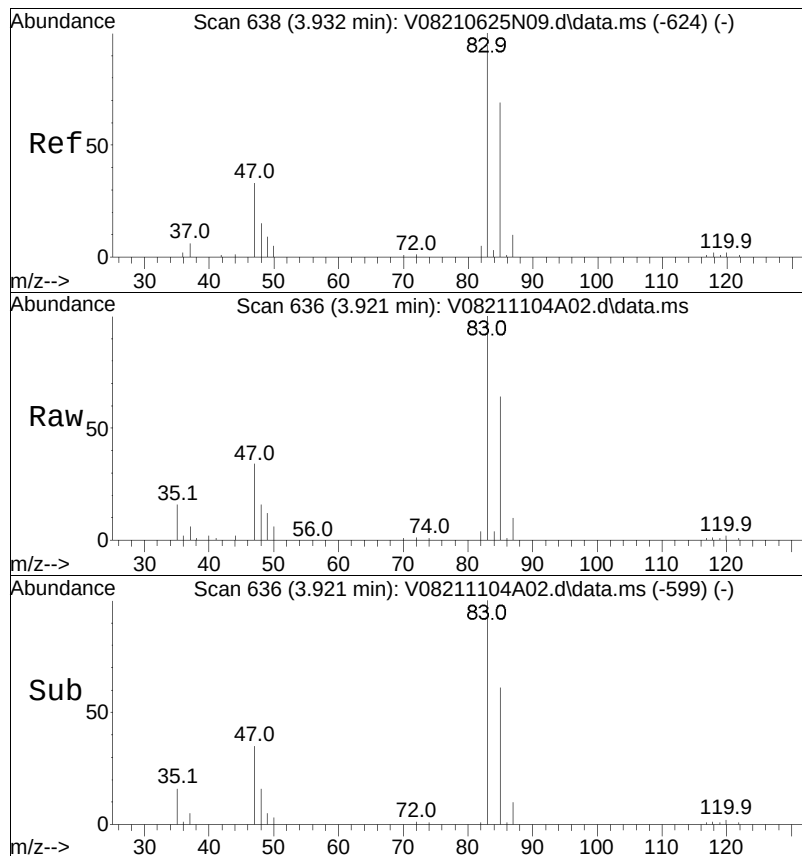




#30
 Bromochloromethane
 Concen: 9.03 ug/L
 RT: 3.759 min Scan# 605
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

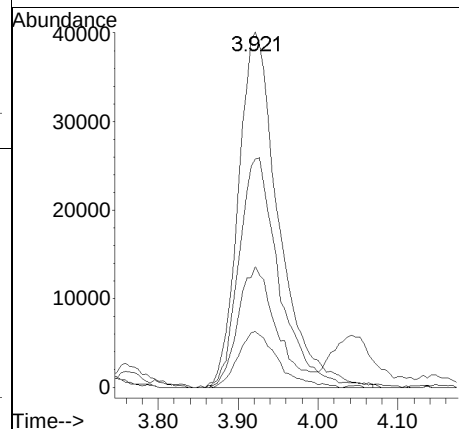
Tgt Ion:	128	Resp:	33025
Ion Ratio	Lower	Upper	
128	100		
49	218.0	223.0	334.4#
130	132.0	111.4	167.0

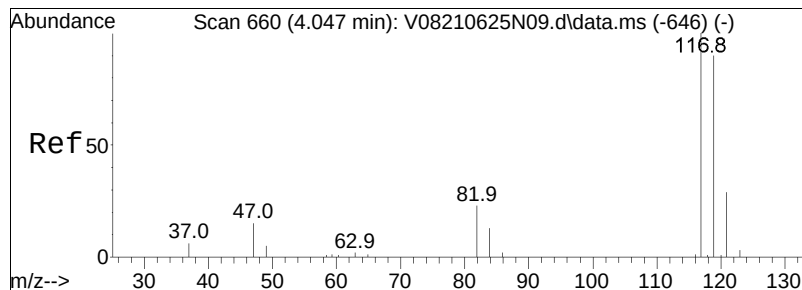




#32
 Chloroform
 Concen: 10.57 ug/L
 RT: 3.921 min Scan# 636
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt	Ion: 83	Resp:	140594
Ion	Ratio	Lower	Upper
83	100		
85	64.7	41.5	86.1
47	33.2	19.0	39.4
48	15.5	9.9	20.5





#34

Carbon tetrachloride

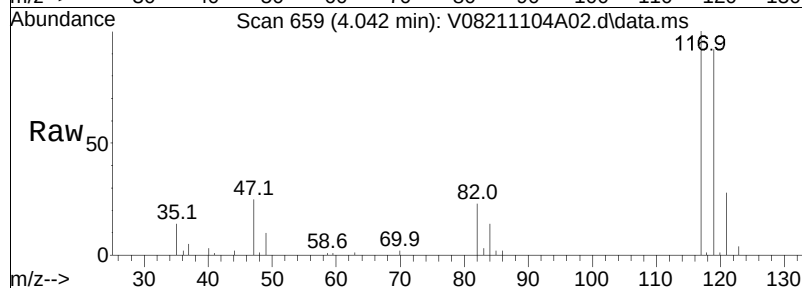
Concen: 9.51 ug/L

RT: 4.042 min Scan# 659

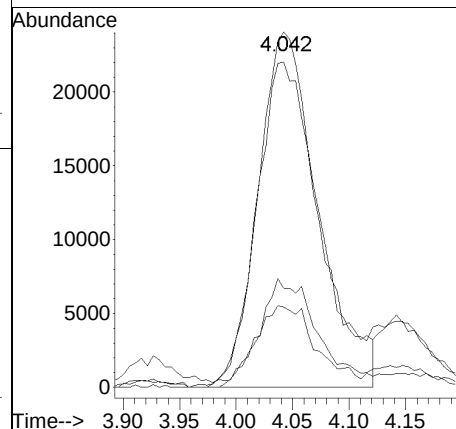
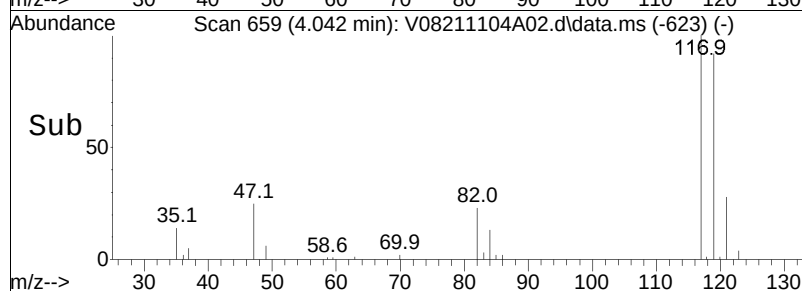
Delta R.T. -0.011 min

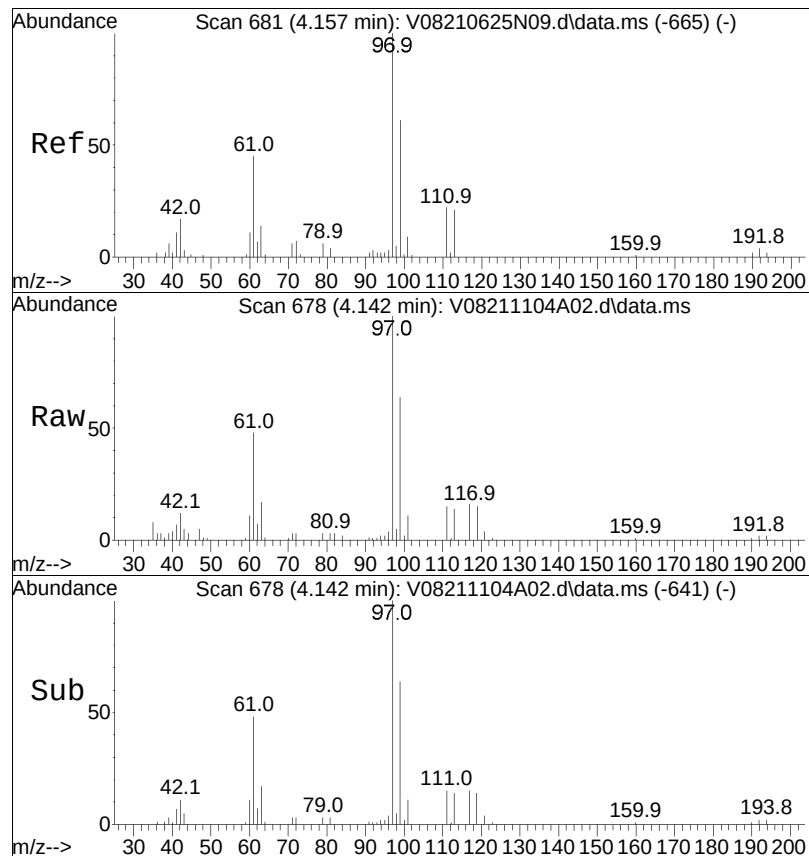
Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am



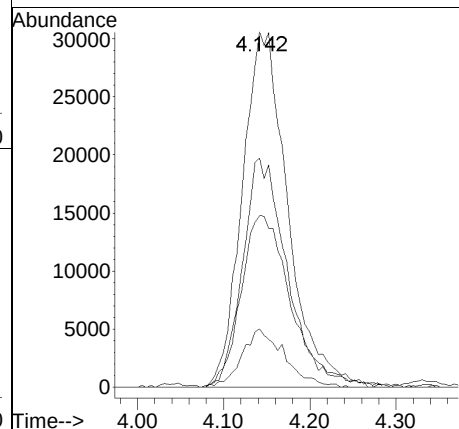
Tgt Ion:	117	Resp:	89596
Ion Ratio	Lower	Upper	
117	100		
119	92.5	62.4	129.6
121	29.2	19.5	40.5
82	20.4	17.0	35.4

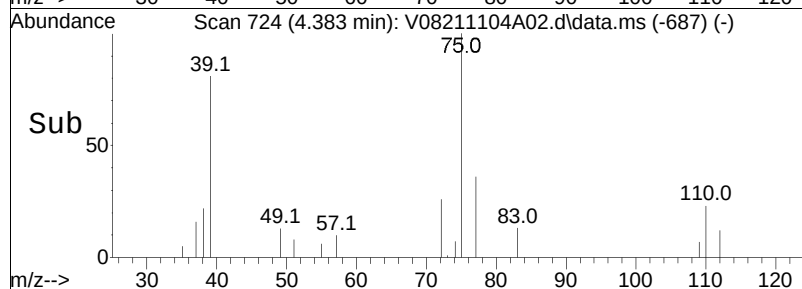
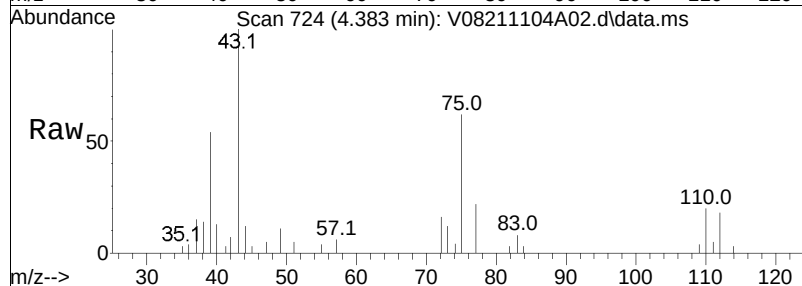
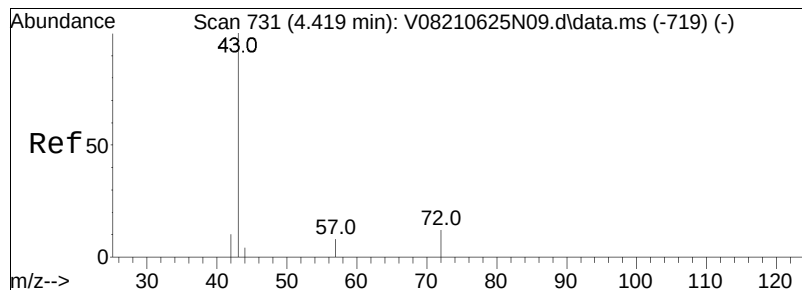




#37
 1,1,1-Trichloroethane
 Concen: 10.33 ug/L
 RT: 4.142 min Scan# 678
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion:	97	Resp:	112500
Ion Ratio	Lower	Upper	
97	100		
99	63.4	40.7	84.5
61	53.3	35.4	73.4
63	15.6	5.0	10.4#





#39

2-Butanone

Concen: 8.07 ug/L

RT: 4.383 min Scan# 724

Delta R.T. -0.005 min

Lab File: V08211104A02.d

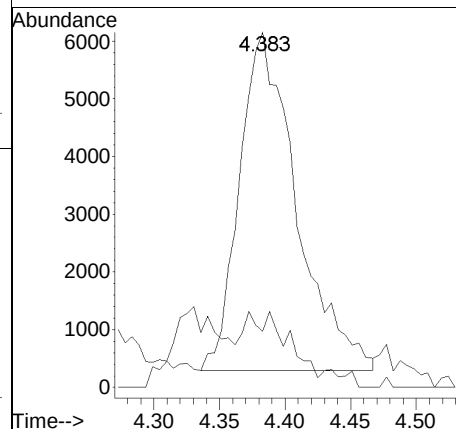
Acq: 4 Nov 2021 7:24 am

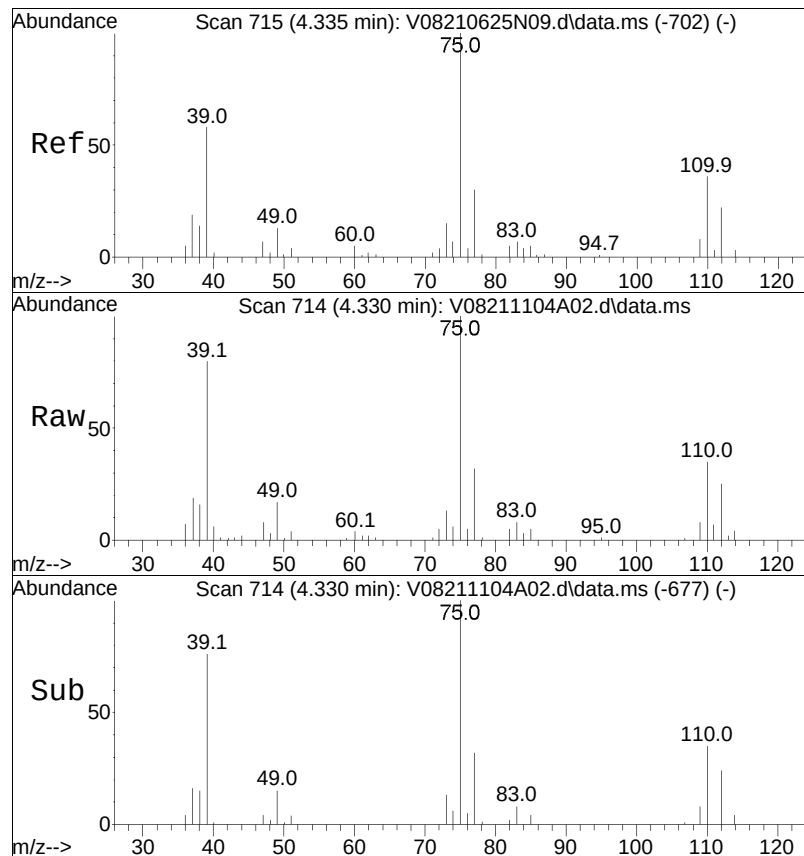
Tgt Ion: 43 Resp: 17743

Ion Ratio Lower Upper

43 100

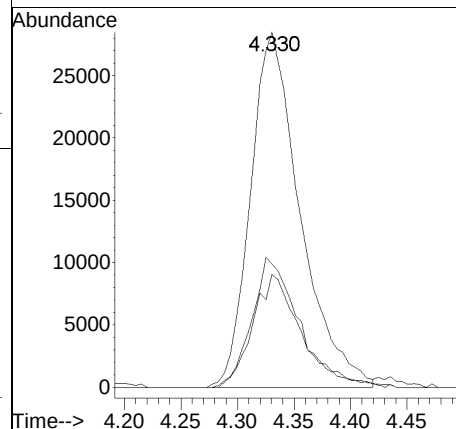
72 2.4 10.9 16.3#

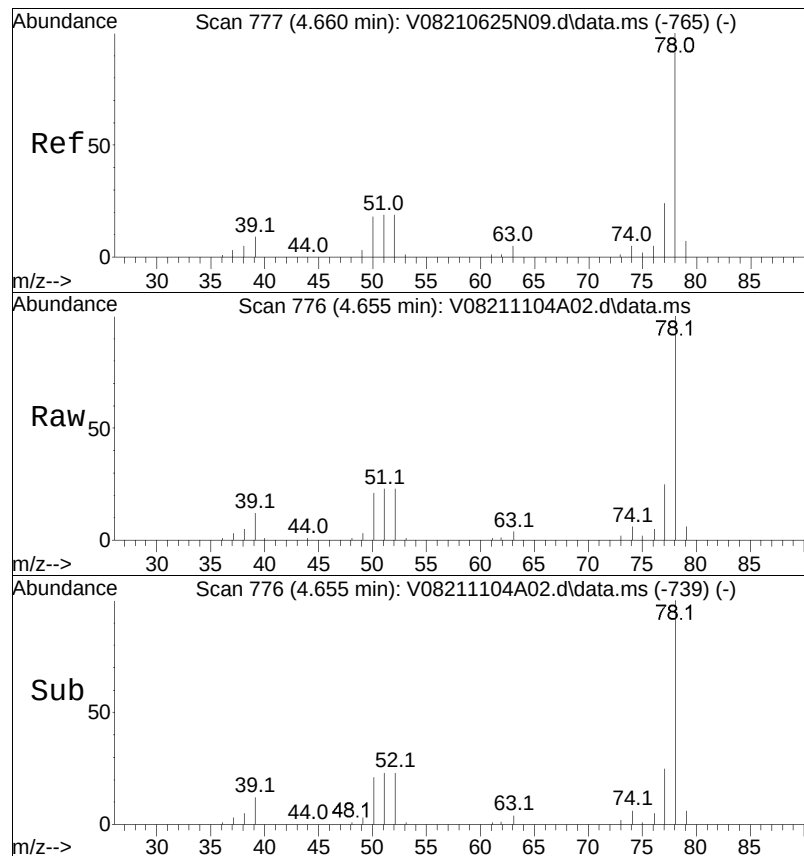




#40
 1,1-Dichloropropene
 Concen: 9.14 ug/L
 RT: 4.330 min Scan# 714
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

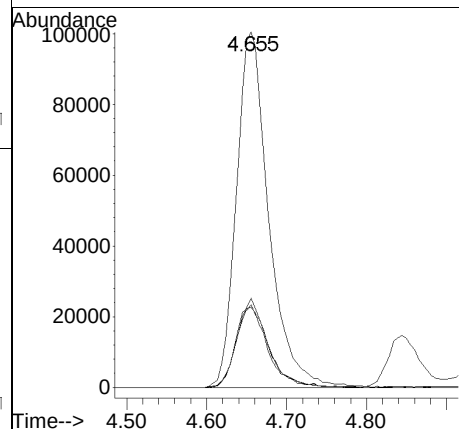
Tgt Ion:	75	Resp:	87105
Ion Ratio	Lower	Upper	
75	100		
110	35.0	20.2	41.9
77	31.1	20.1	41.7

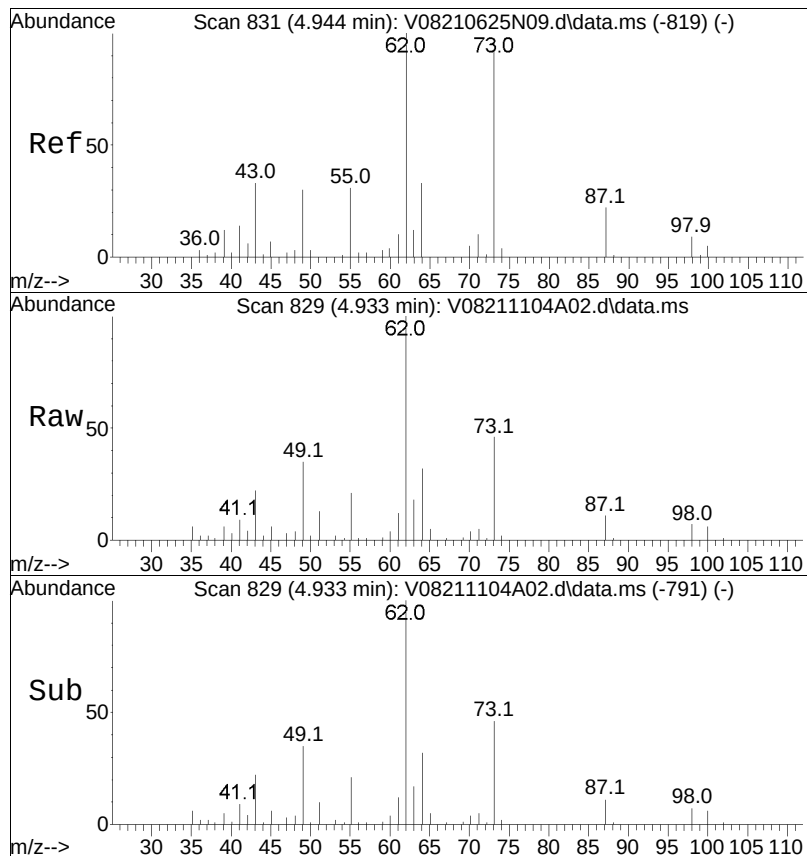




#41
Benzene
Concen: 9.50 ug/L
RT: 4.655 min Scan# 776
Delta R.T. -0.006 min
Lab File: V08211104A02.d
Acq: 4 Nov 2021 7:24 am

Tgt Ion: 78	Resp: 282524
Ion Ratio	Lower Upper
78 100	
77 23.8	15.7 32.7
51 23.6	16.0 33.2
52 22.3	15.3 31.9





#44

1,2-Dichloroethane

Concen: 9.77 ug/L

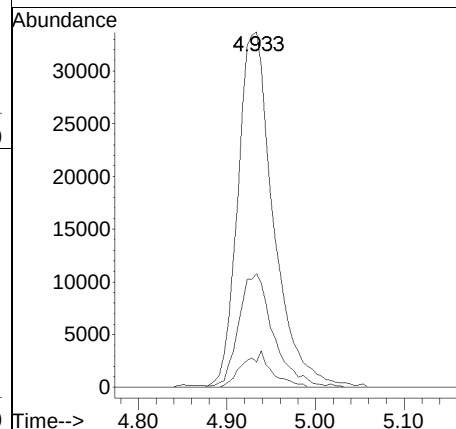
RT: 4.933 min Scan# 829

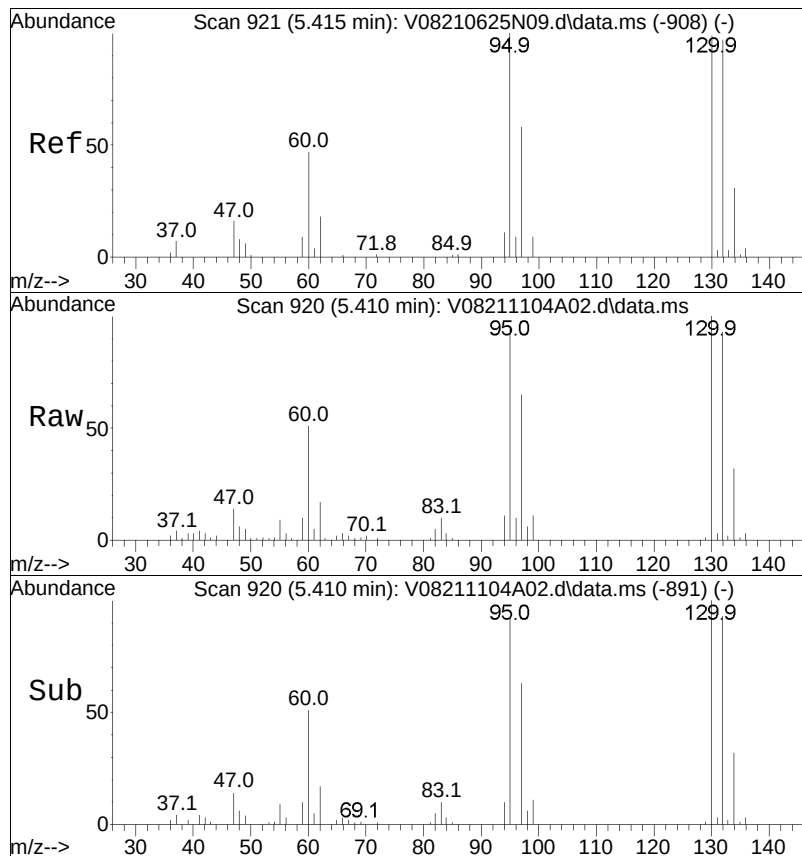
Delta R.T. 0.000 min

Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am

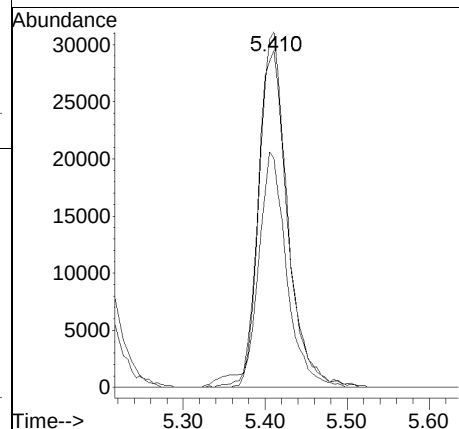
Tgt	Ion: 62	Resp:	94275
Ion	Ratio	Lower	Upper
62	100		
64	30.4	11.2	51.2
98	8.4	0.0	26.1

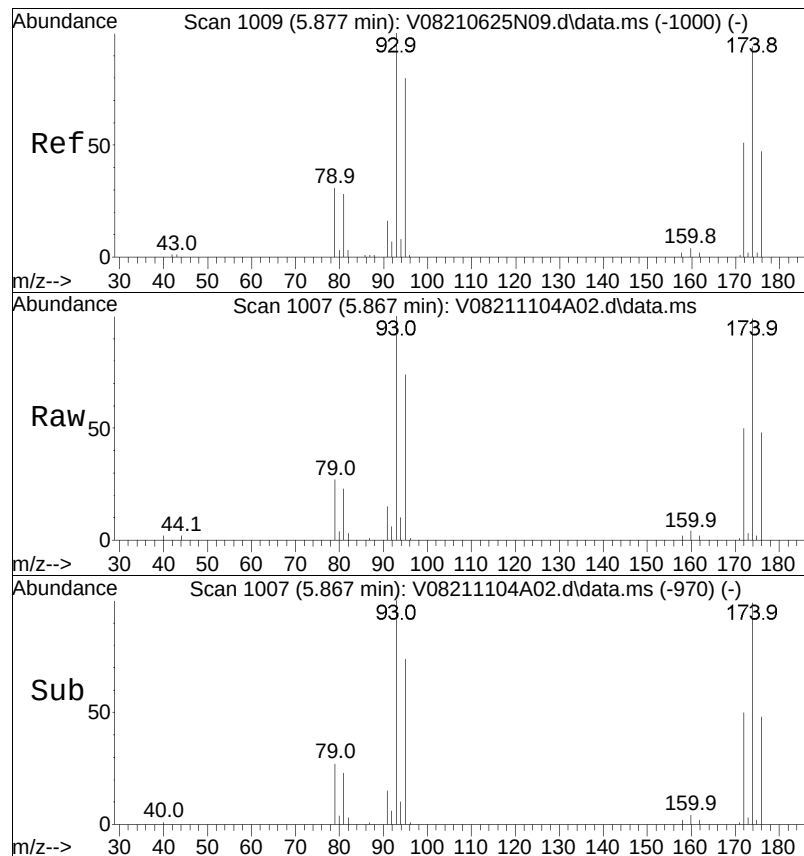




#48
 Trichloroethene
 Concen: 9.61 ug/L
 RT: 5.410 min Scan# 920
 Delta R.T. -0.001 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

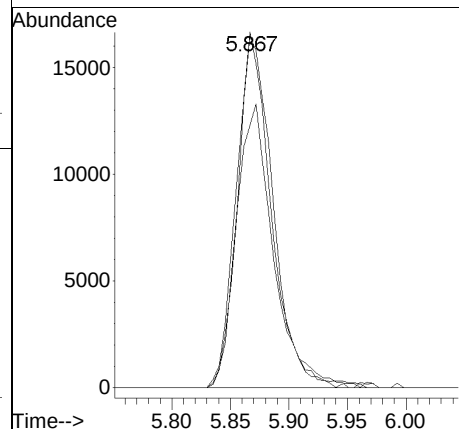
Tgt Ion	Ratio	Resp	Lower	Upper
95	100	74365		
97	67.9		55.5	83.3
130	100.2		76.6	115.0

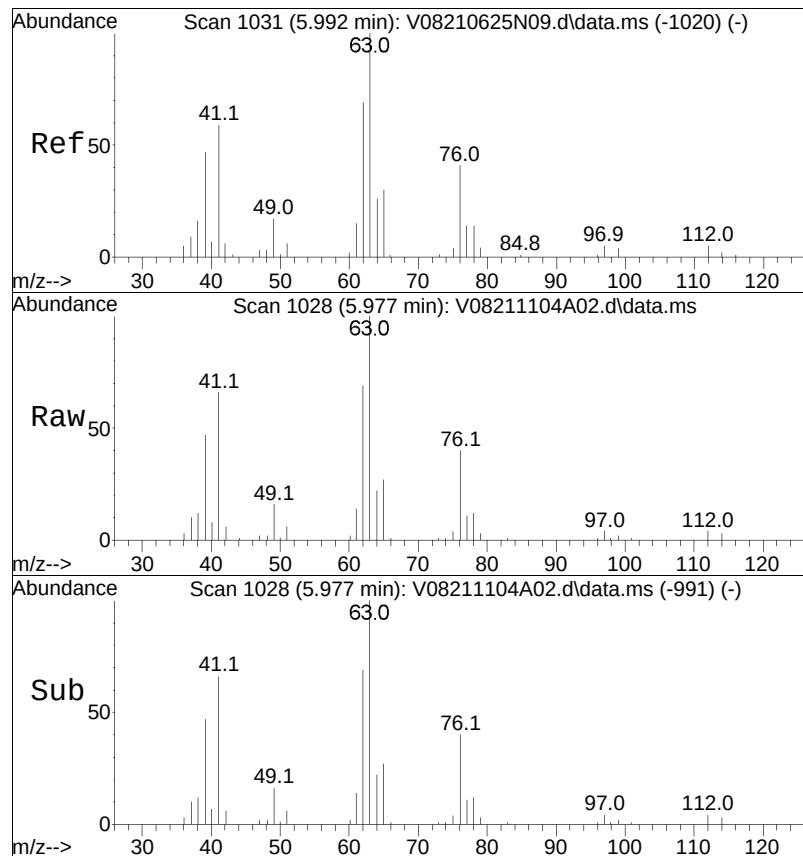




#50
 Dibromomethane
 Concen: 9.06 ug/L
 RT: 5.867 min Scan# 1007
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

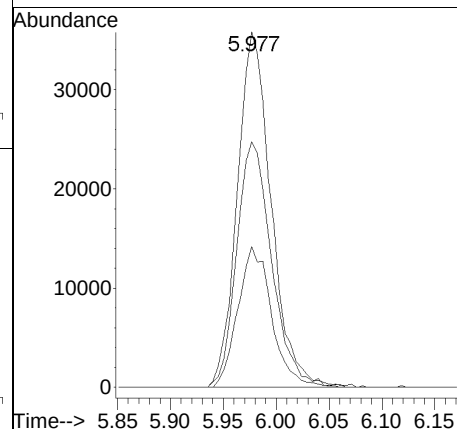
Tgt Ion:	93	Resp:	34759
Ion Ratio	Lower	Upper	
93	100		
95	82.3	67.0	100.4
174	100.9	75.0	112.4

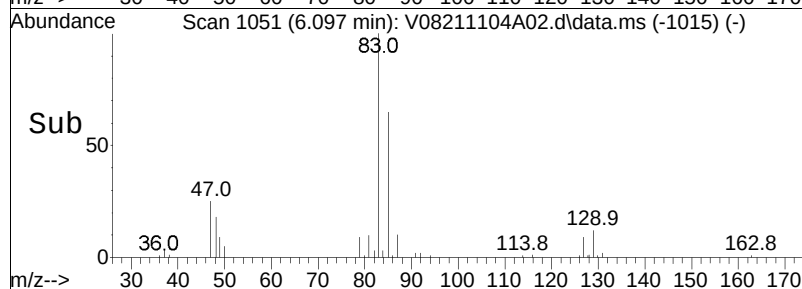
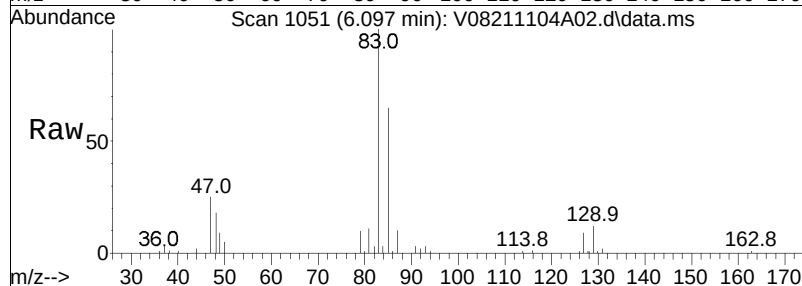
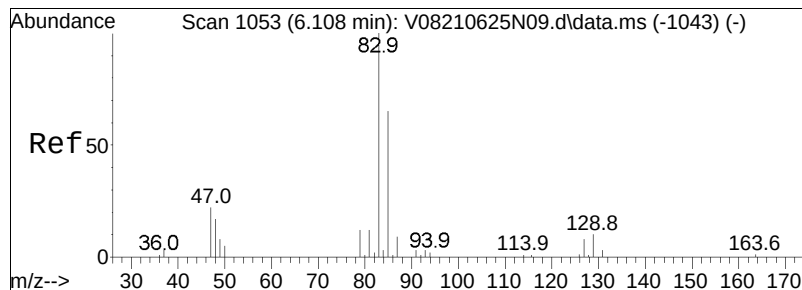




#51
 1,2-Dichloropropane
 Concen: 9.89 ug/L
 RT: 5.977 min Scan# 1028
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt	Ion: 63	Resp:	80041
Ion	Ratio	Lower	Upper
63	100		
62	71.3	58.6	87.8
76	39.6	38.0	57.0





#54

Bromodichloromethane

Concen: 9.37 ug/L

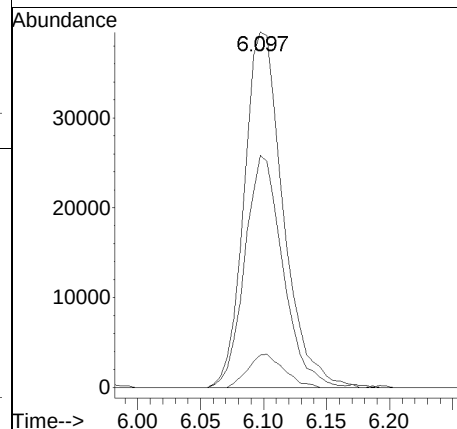
RT: 6.097 min Scan# 1051

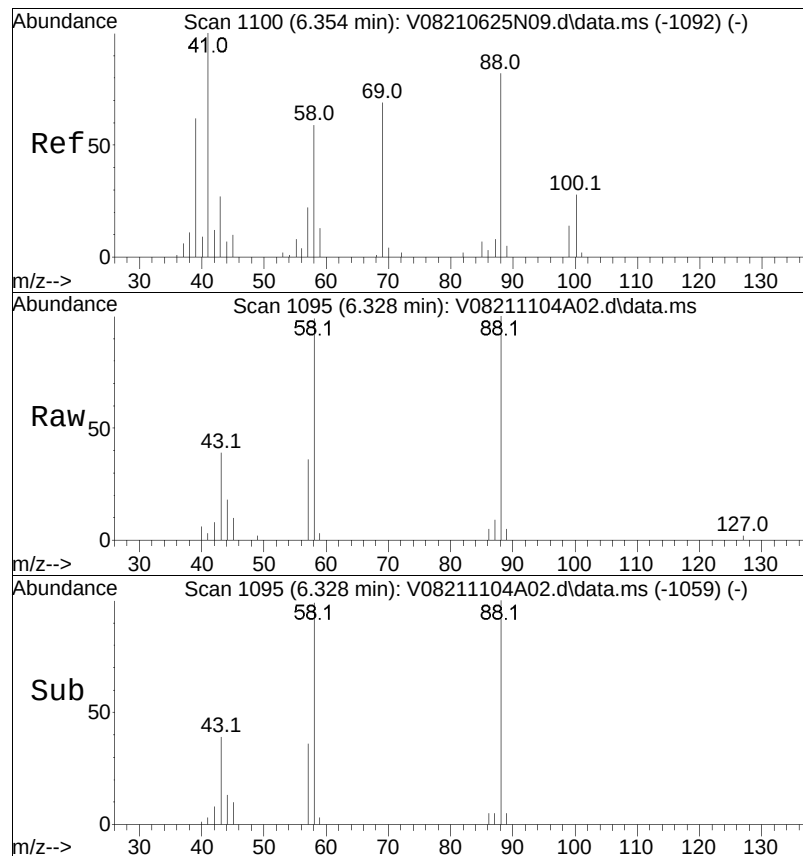
Delta R.T. -0.011 min

Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am

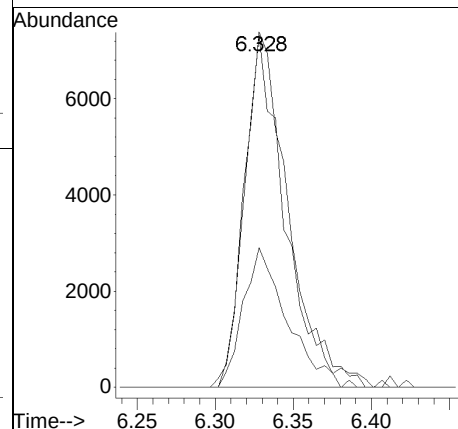
Tgt Ion:	83	Resp:	85264
Ion Ratio	Lower	Upper	
83	100		
85	63.7	52.3	78.5
127	8.6	6.2	9.4

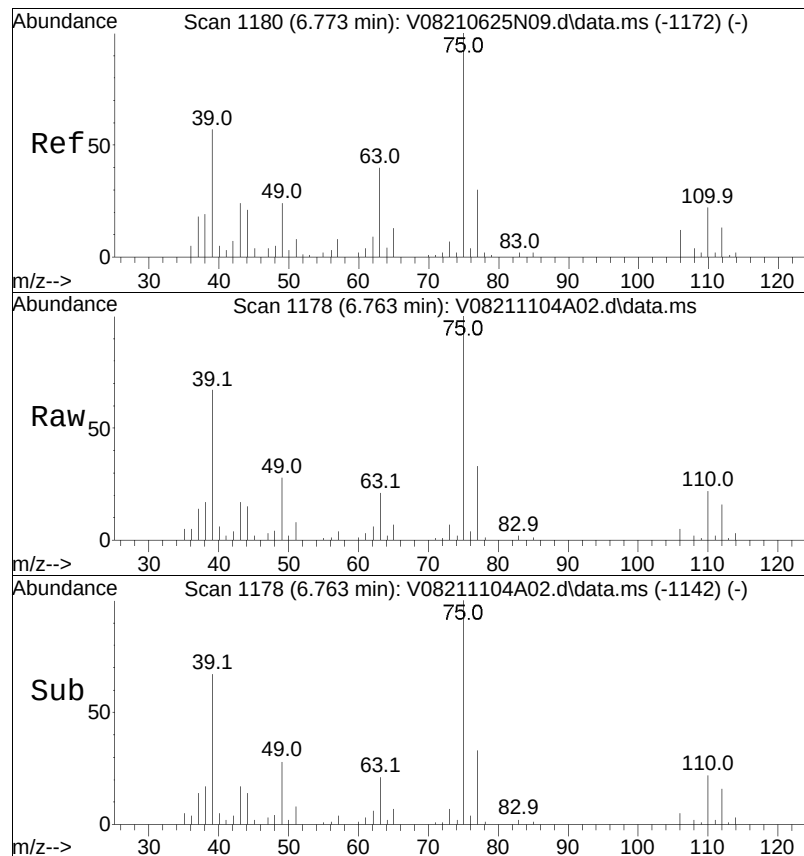




#57
 1,4-Dioxane
 Concen: 469.19 ug/L
 RT: 6.328 min Scan# 1095
 Delta R.T. -0.011 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

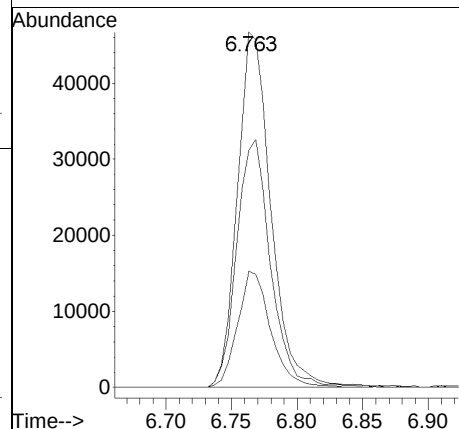
Tgt Ion:	88	Resp:	14399
Ion Ratio	Lower	Upper	
88	100		
58	93.0	76.7	115.1
43	39.6	36.2	54.2

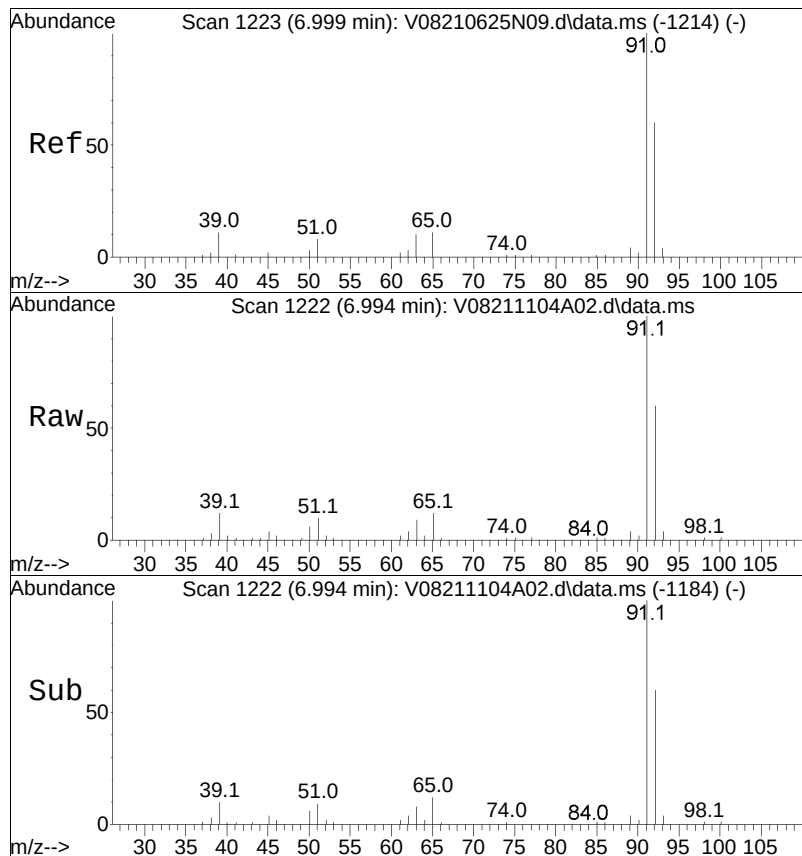




#58
 cis-1,3-Dichloropropene
 Concen: 8.11 ug/L
 RT: 6.763 min Scan# 1178
 Delta R.T. -0.011 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

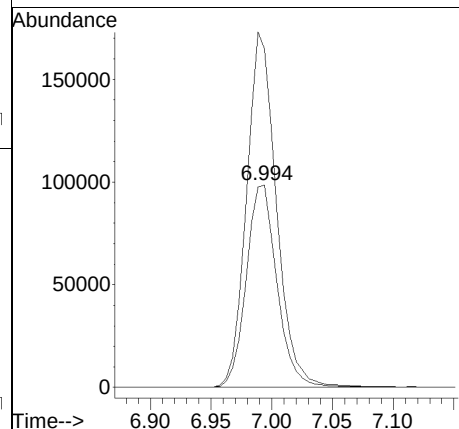
Tgt Ion:	75	Resp:	83146
Ion Ratio	Lower	Upper	
75	100		
77	32.4	25.0	37.4
39	70.9	50.1	75.1

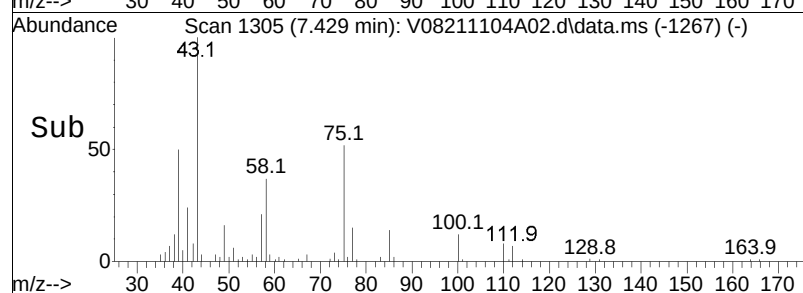
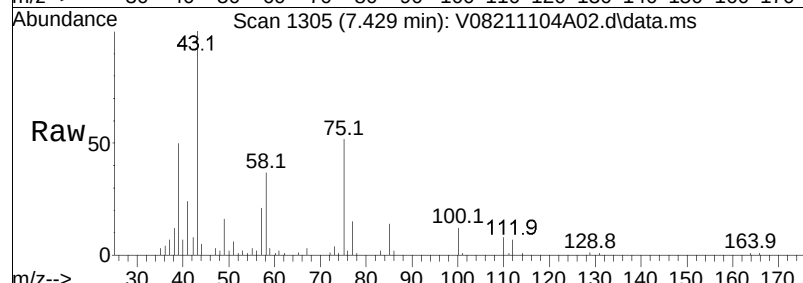
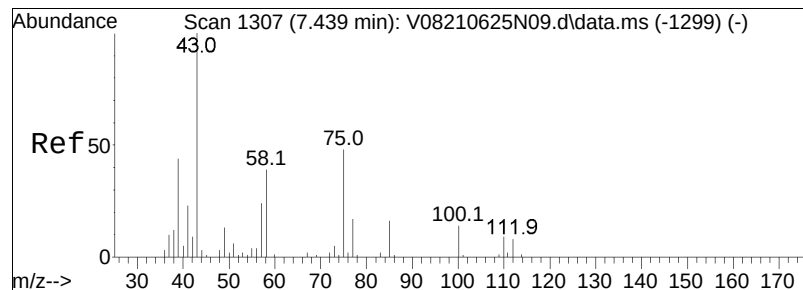




#61
 Toluene
 Concen: 9.16 ug/L
 RT: 6.994 min Scan# 1222
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion:	92	Resp:	173680
Ion Ratio	Lower	Upper	
92	100		
91	170.5	139.8	209.6





#62

4-Methyl-2-pentanone

Concen: 7.55 ug/L

RT: 7.429 min Scan# 1305

Delta R.T. 0.000 min

Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am

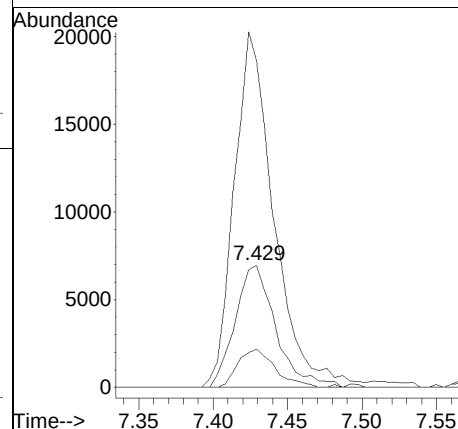
Tgt Ion: 58 Resp: 13277

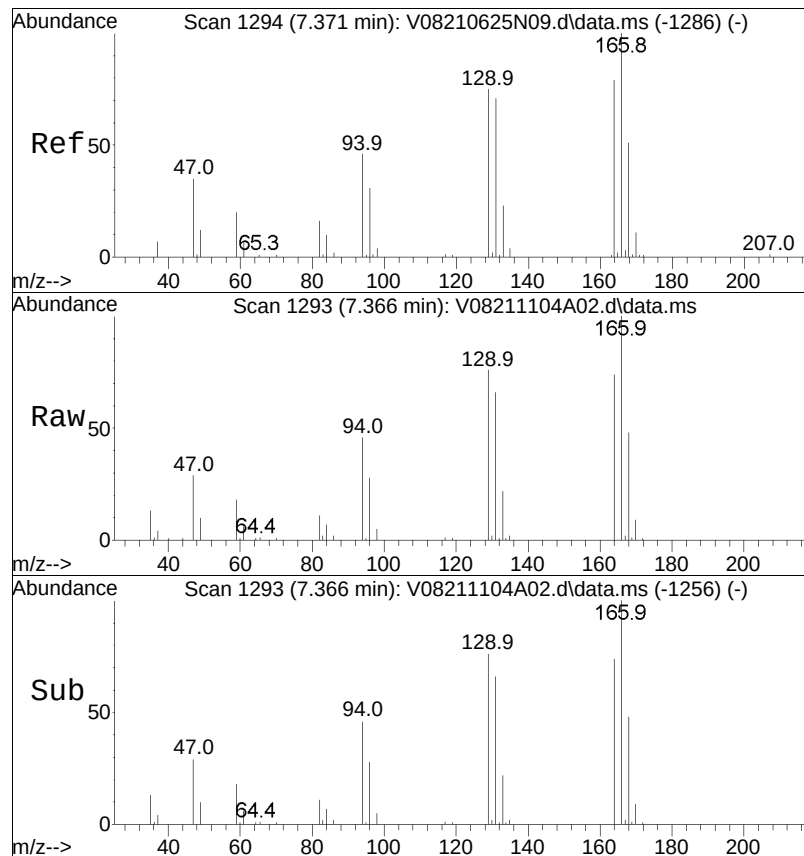
Ion Ratio Lower Upper

58 100

100 28.6 20.2 30.2

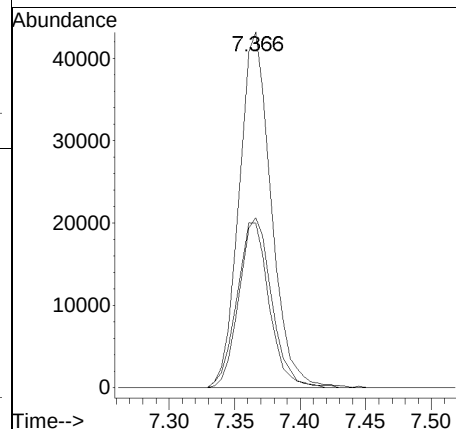
43 282.9 196.6 295.0

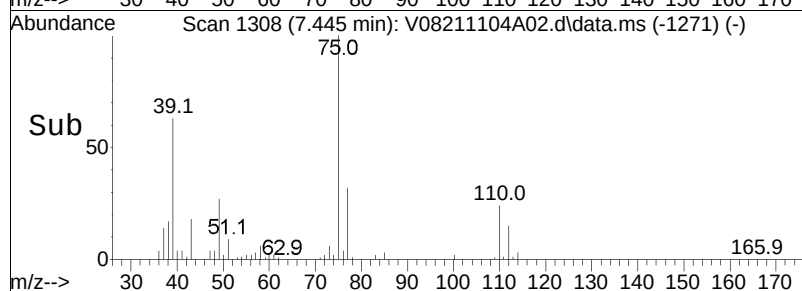
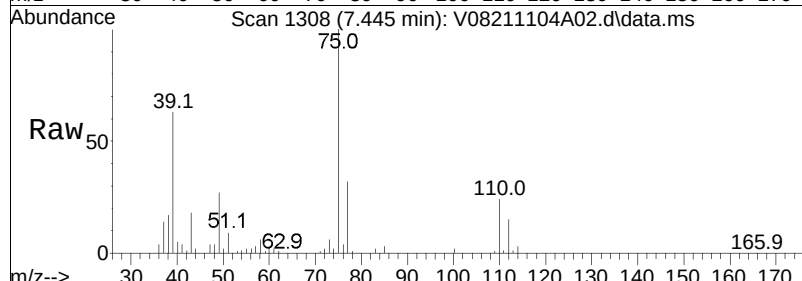
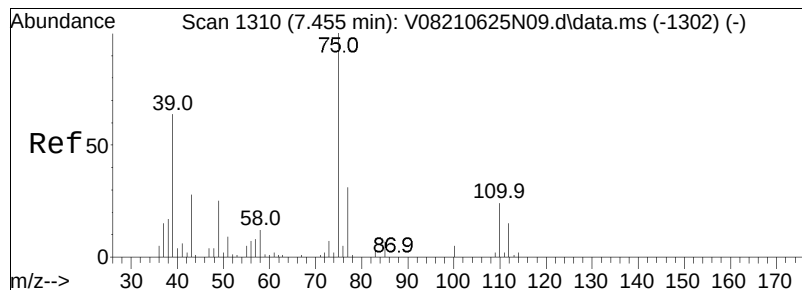




#63
Tetrachloroethene
Concen: 9.75 ug/L
RT: 7.366 min Scan# 1293
Delta R.T. -0.005 min
Lab File: V08211104A02.d
Acq: 4 Nov 2021 7:24 am

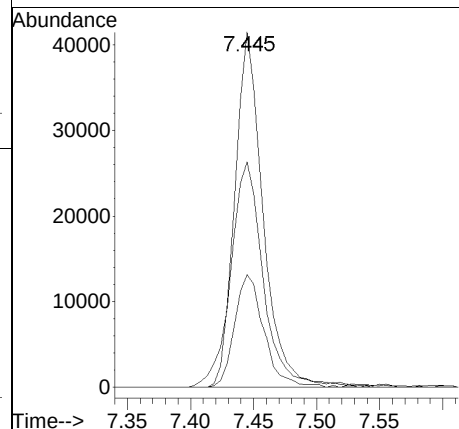
Tgt	Ion:166	Resp:	73336
Ion	Ratio	Lower	Upper
166	100		
168	48.1	28.2	68.2
94	46.9	38.4	78.4

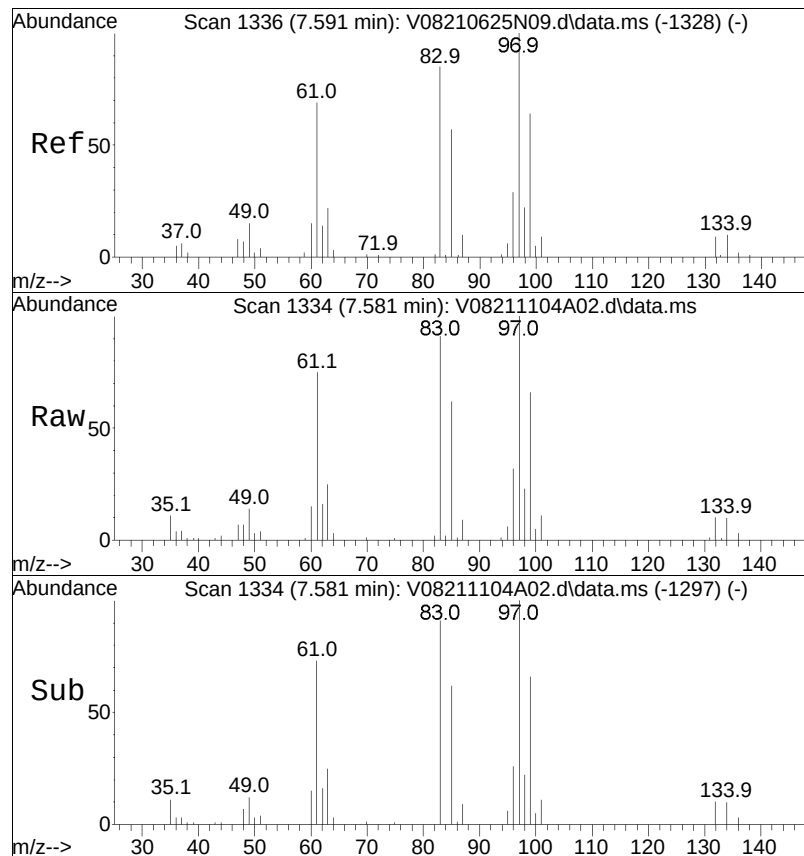




#65
 trans-1,3-Dichloropropene
 Concen: 8.09 ug/L
 RT: 7.445 min Scan# 1308
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

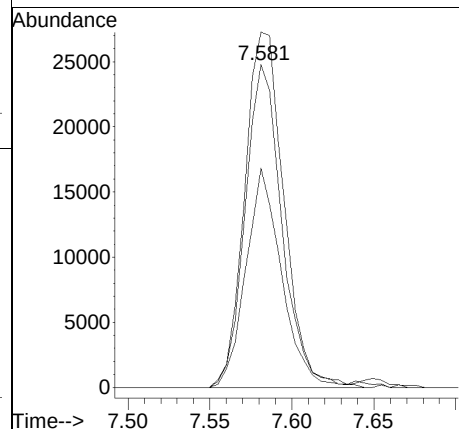
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	12.4	52.4
39	72.8	42.8	82.8

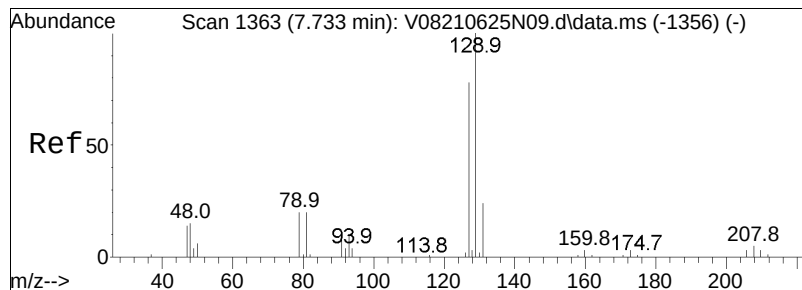




#68
 1,1,2-Trichloroethane
 Concen: 9.26 ug/L
 RT: 7.581 min Scan# 1334
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

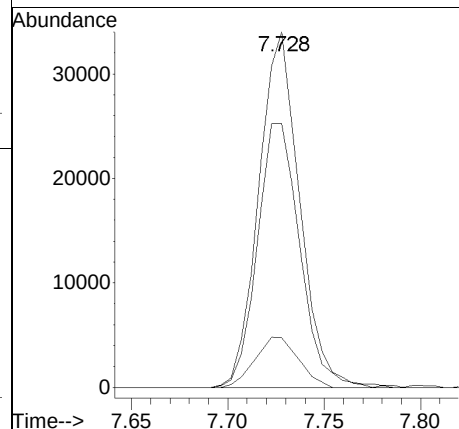
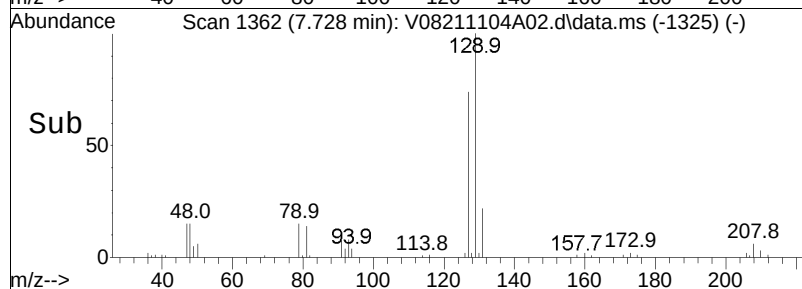
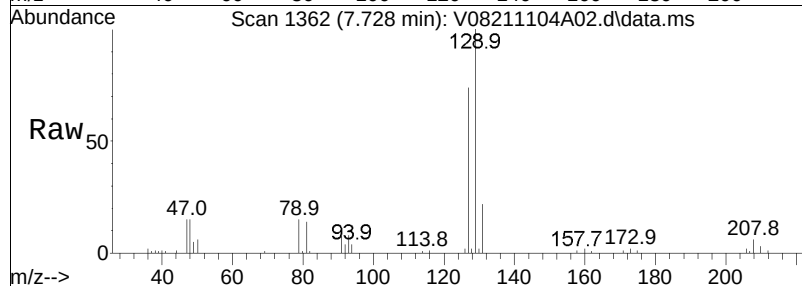
Tgt Ion:	83	Resp:	38697
Ion Ratio	Lower	Upper	
83	100		
97	118.4	89.8	129.8
85	65.9	44.4	84.4

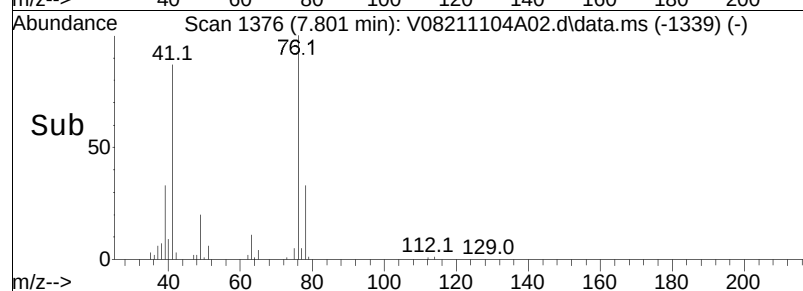
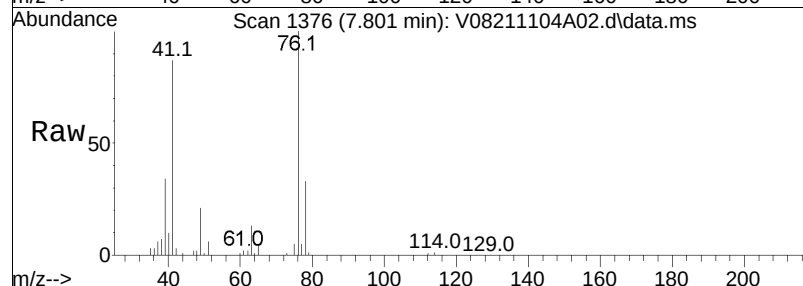
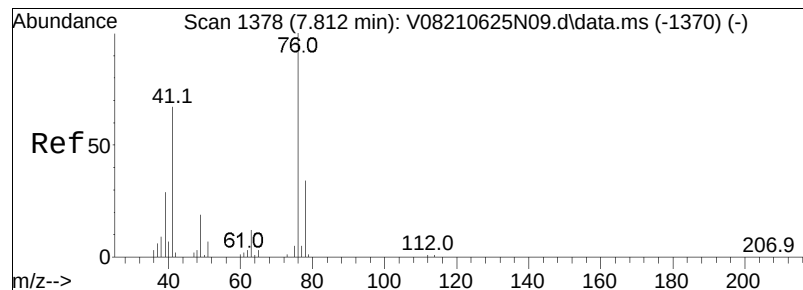




#69
 Chlorodibromomethane
 Concen: 8.27 ug/L
 RT: 7.728 min Scan# 1362
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

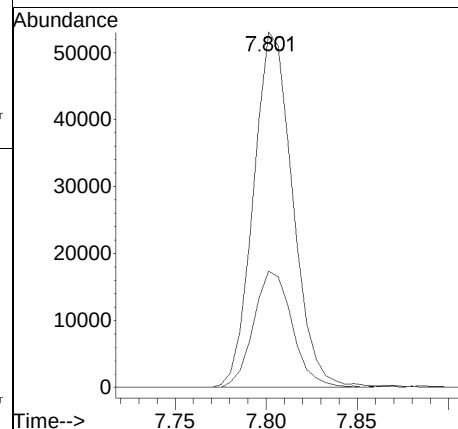
Tgt Ion	Ratio	Lower	Upper
129	100		
81	15.1	2.9	42.9
127	77.7	57.8	97.8

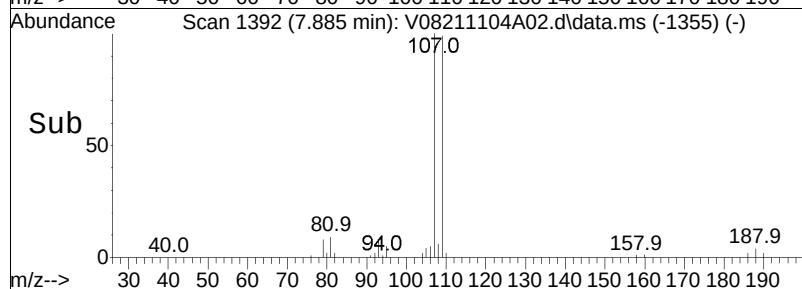
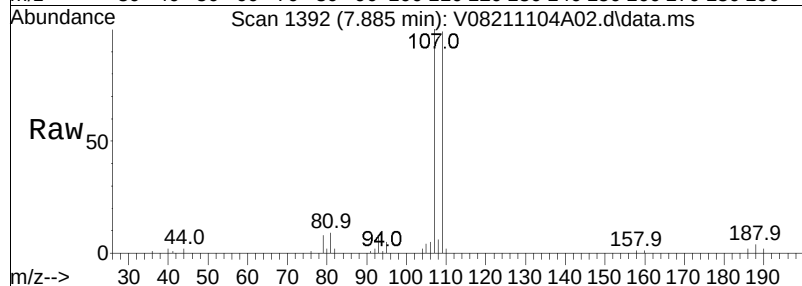
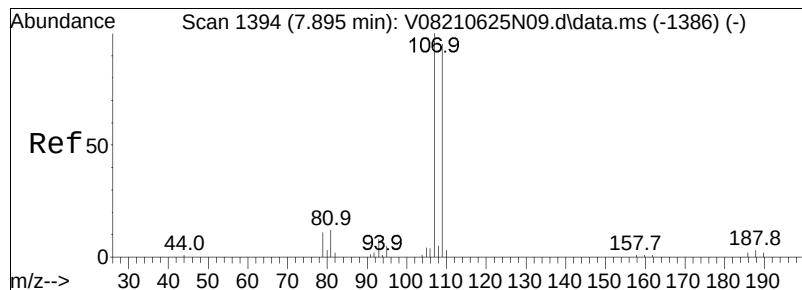




#70
 1,3-Dichloropropane
 Concen: 9.07 ug/L
 RT: 7.801 min Scan# 1376
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

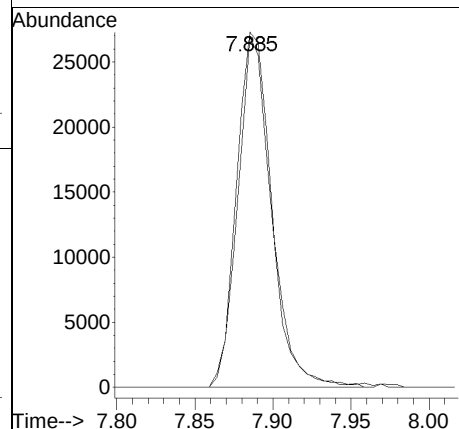
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.5	38.3

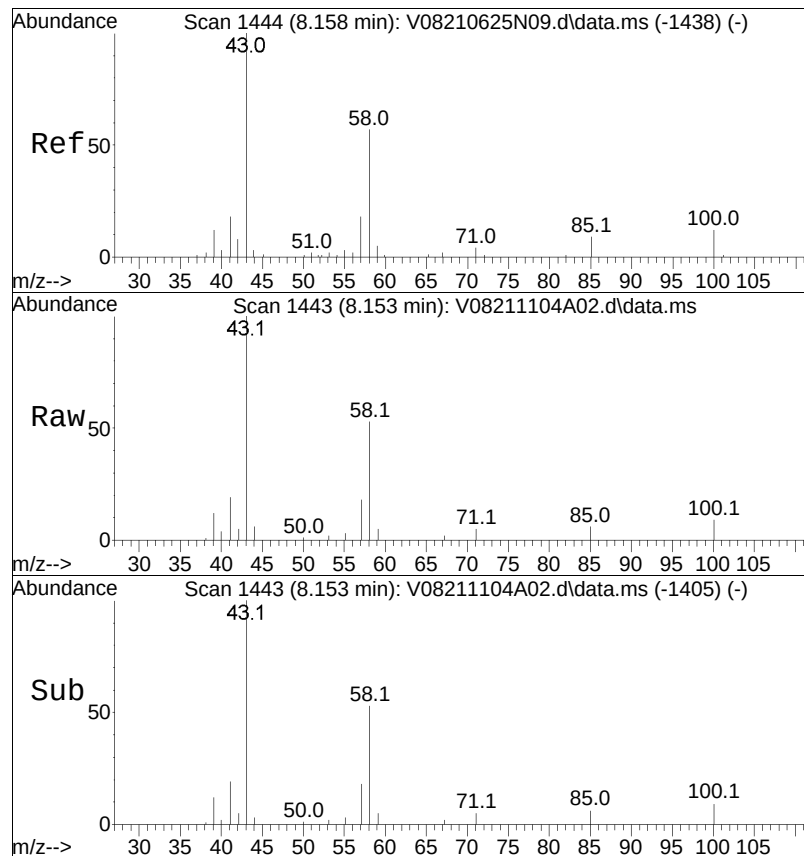




#71
 1,2-Dibromoethane
 Concen: 9.14 ug/L
 RT: 7.885 min Scan# 1392
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

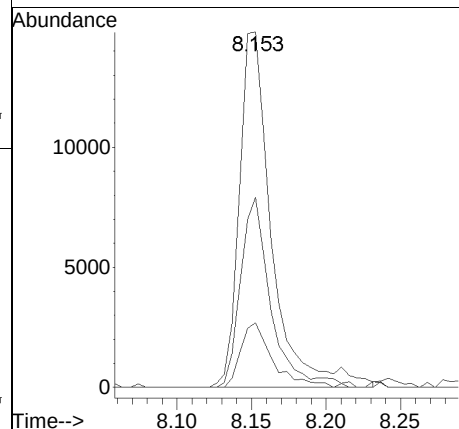
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.6	74.3	111.5

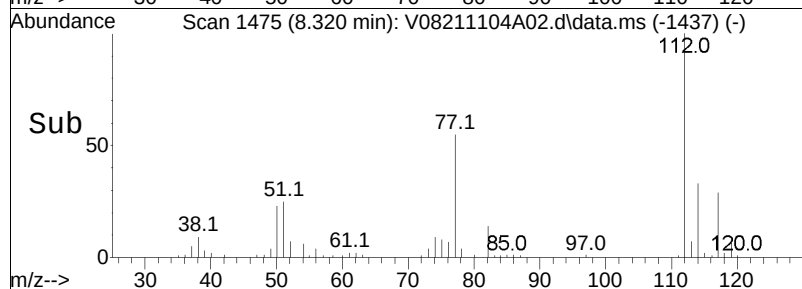
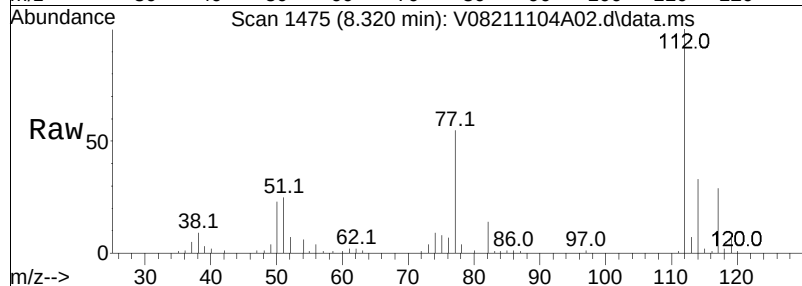
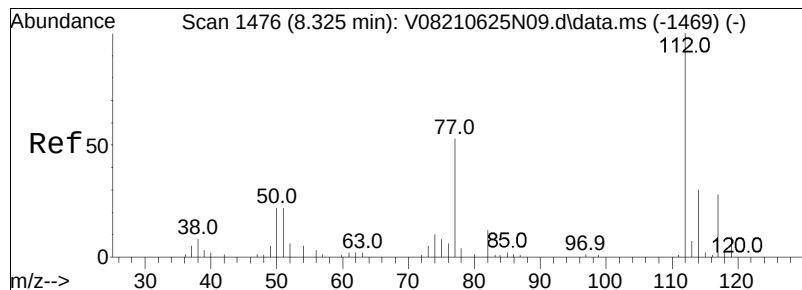




#72
 2-Hexanone
 Concen: 7.26 ug/L
 RT: 8.153 min Scan# 1443
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion:	43	Resp:	22421
Ion Ratio	100	Lower	Upper
58	50.3	41.2	61.8
57	18.1	17.2	25.8





#73

Chlorobenzene

Concen: 9.60 ug/L

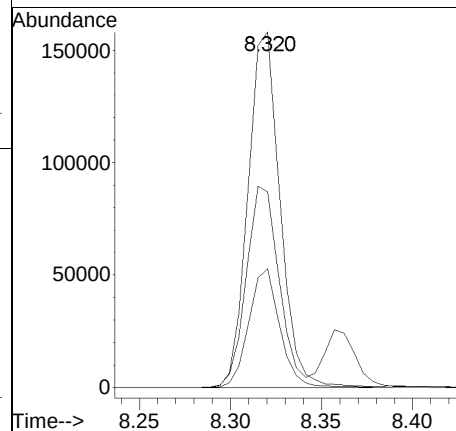
RT: 8.320 min Scan# 1475

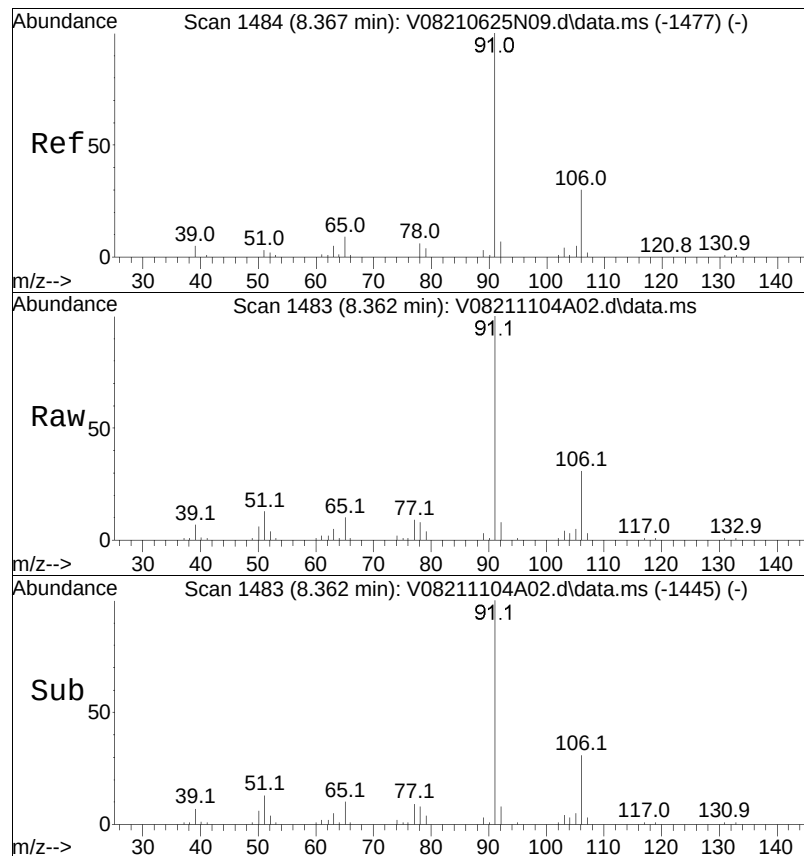
Delta R.T. 0.000 min

Lab File: V08211104A02.d

Acq: 4 Nov 2021 7:24 am

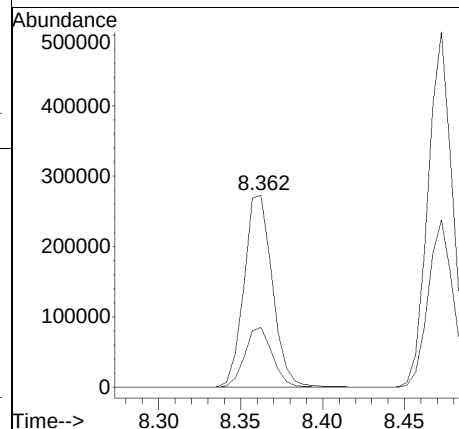
Tgt Ion:	112	Resp:	193990
Ion Ratio	Lower	Upper	
112	100		
77	57.9	55.4	83.0
114	32.2	25.4	38.2

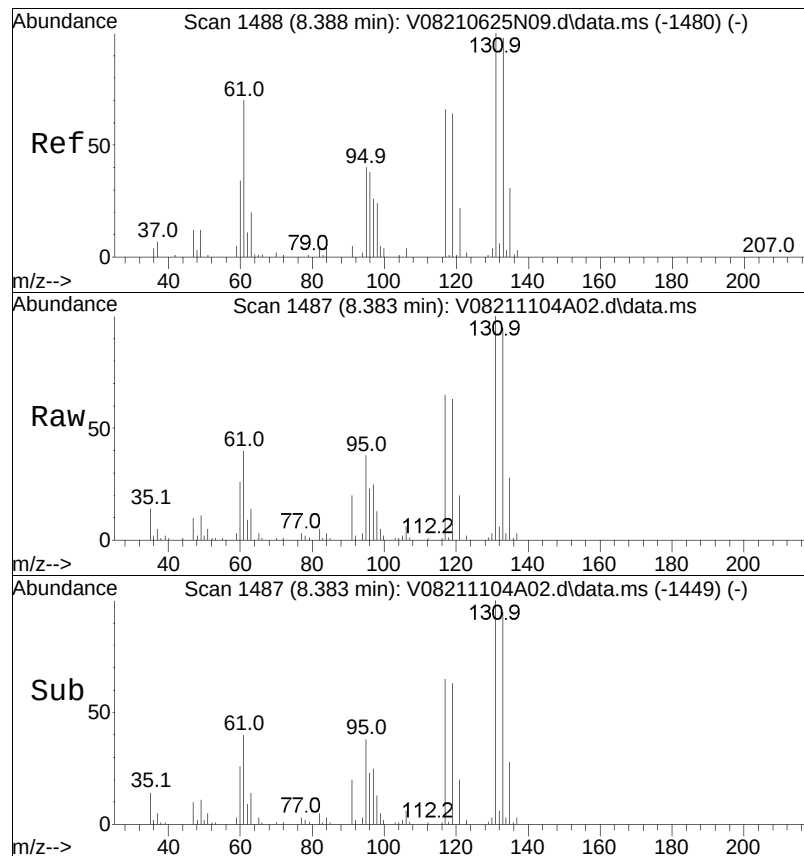




#74
 Ethylbenzene
 Concen: 9.56 ug/L
 RT: 8.362 min Scan# 1483
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

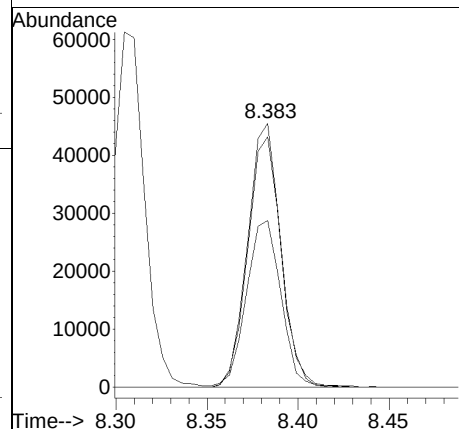
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

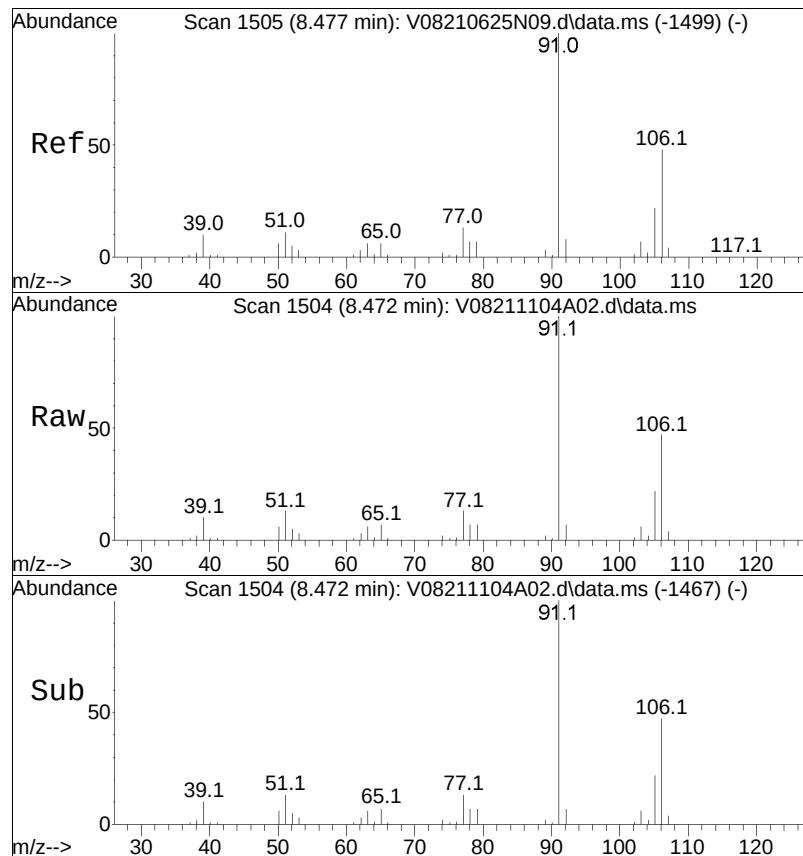




#75
 1,1,1,2-Tetrachloroethane
 Concen: 8.89 ug/L
 RT: 8.383 min Scan# 1487
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

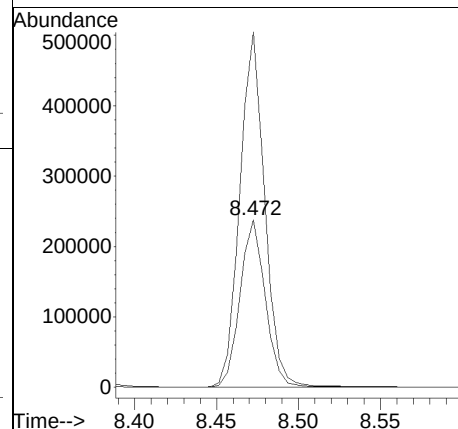
Tgt Ion:	131	Resp:	57865
Ion Ratio	Lower	Upper	
131	100		
133	95.5	81.0	121.0
119	65.8	41.3	81.3

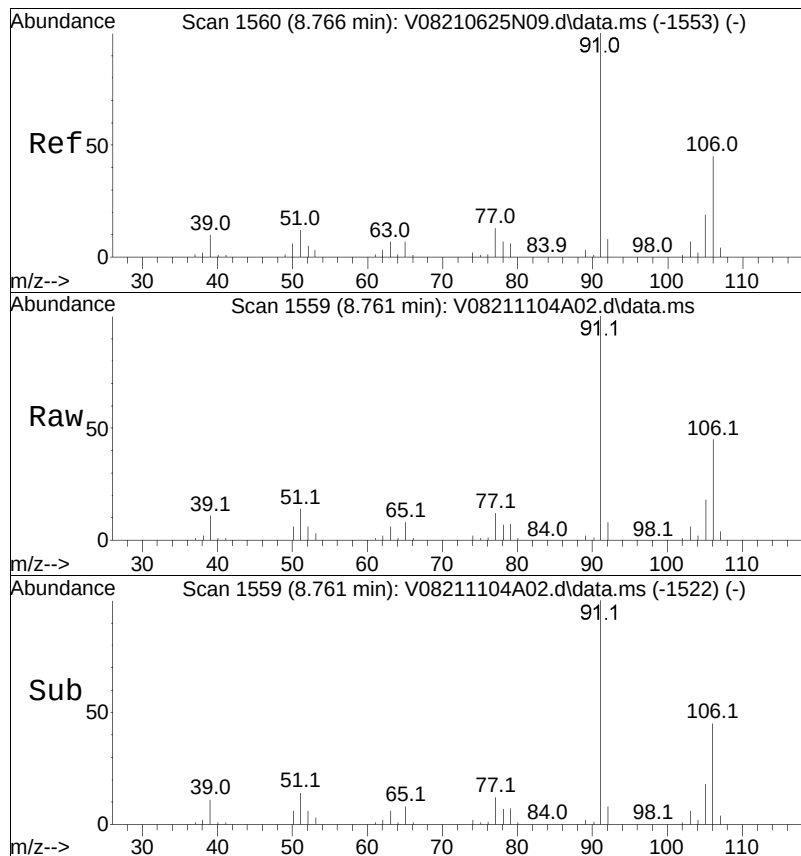




#76
 p/m Xylene
 Concen: 19.69 ug/L
 RT: 8.472 min Scan# 1504
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

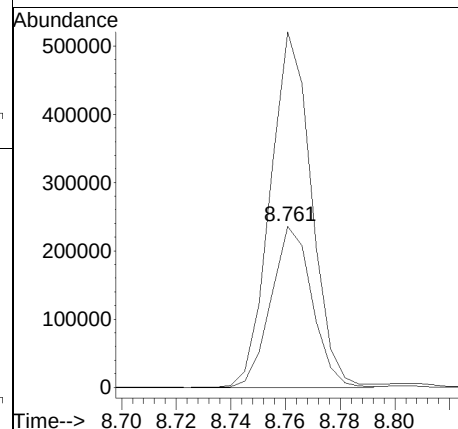
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	206.8	166.4	249.6	

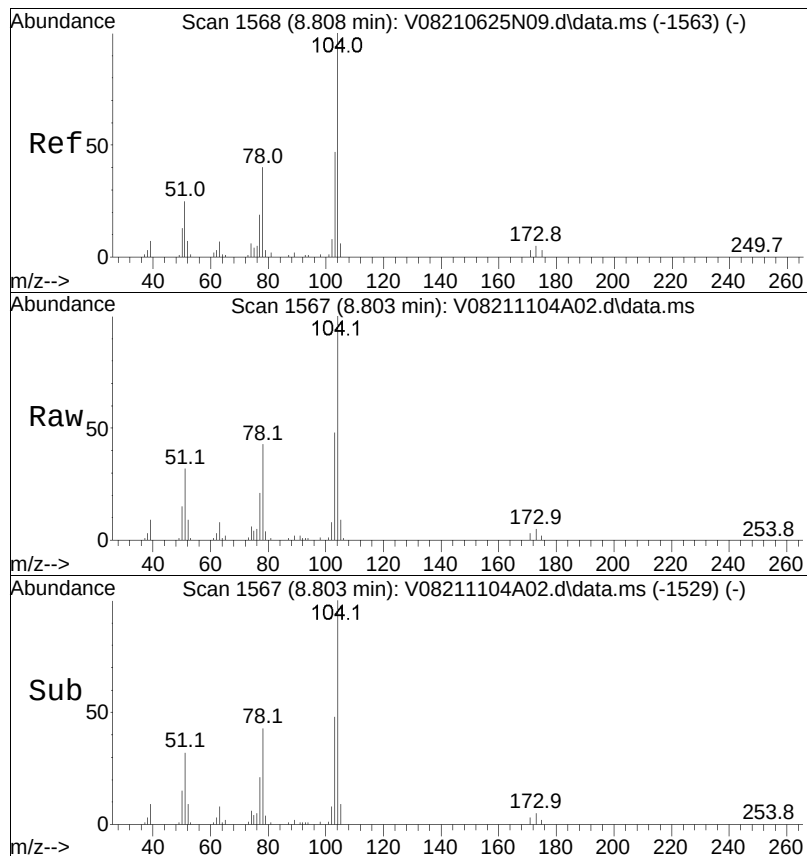




#77
o Xylene
Concen: 19.82 ug/L
RT: 8.761 min Scan# 1559
Delta R.T. -0.005 min
Lab File: V08211104A02.d
Acq: 4 Nov 2021 7:24 am

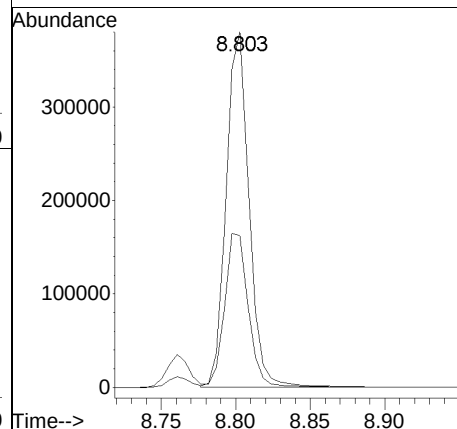
Tgt Ion:106 Resp: 246963
Ion Ratio Lower Upper
106 100
91 221.2 182.6 273.8

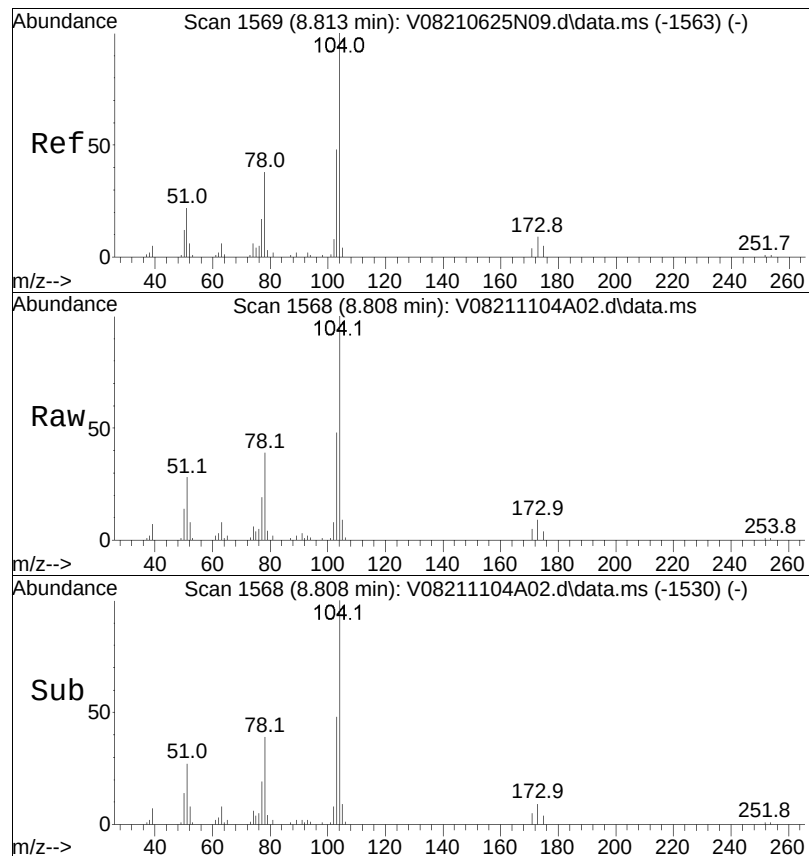




#78
 Styrene
 Concen: 20.86 ug/L
 RT: 8.803 min Scan# 1567
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

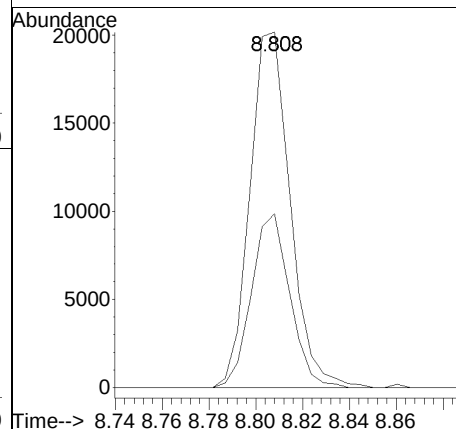
Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.5	39.8	59.6

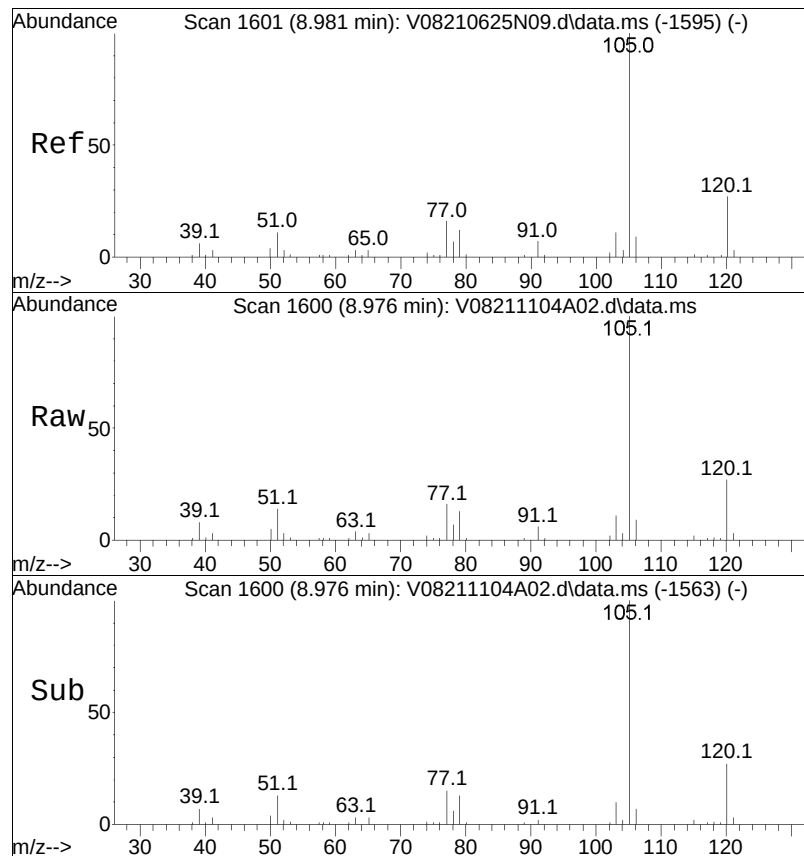




#80
 Bromoform
 Concen: 7.98 ug/L
 RT: 8.808 min Scan# 1568
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

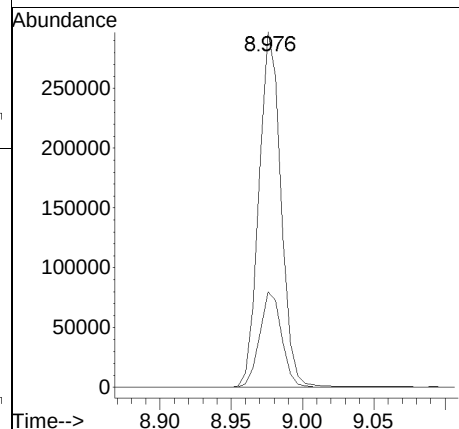
Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.5	31.5	71.5

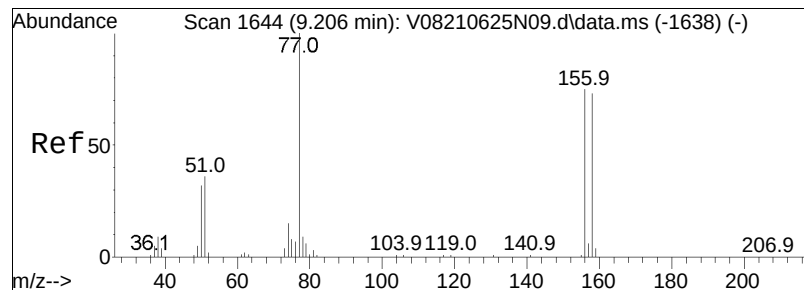




#82
 Isopropylbenzene
 Concen: 10.00 ug/L
 RT: 8.976 min Scan# 1600
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	4.8	44.8





#84

Bromobenzene

Concen: 9.58 ug/L

RT: 9.201 min Scan# 1643

Delta R.T. 0.000 min

Lab File: V08211104A02.d

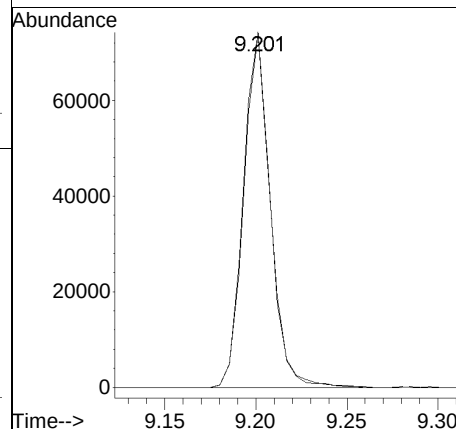
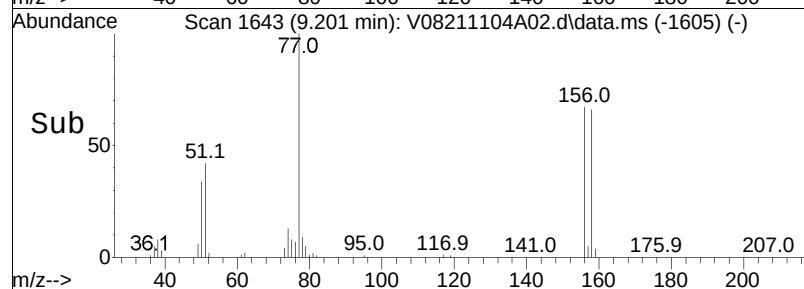
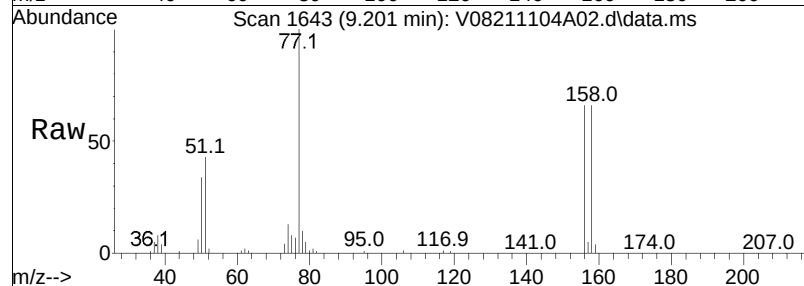
Acq: 4 Nov 2021 7:24 am

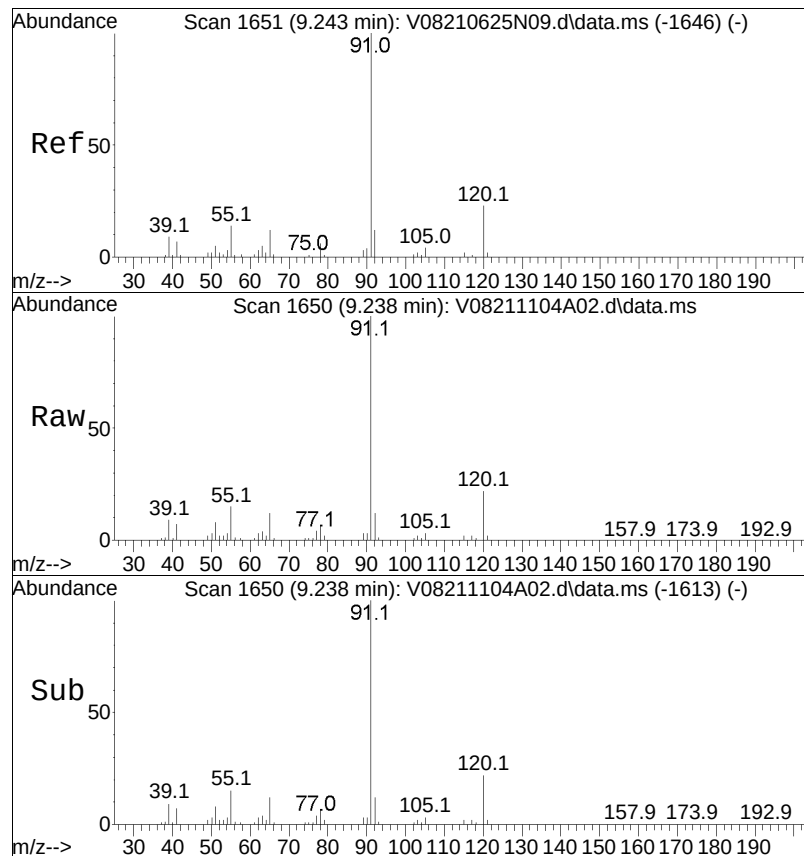
Tgt Ion:156 Resp: 76406

Ion Ratio Lower Upper

156 100

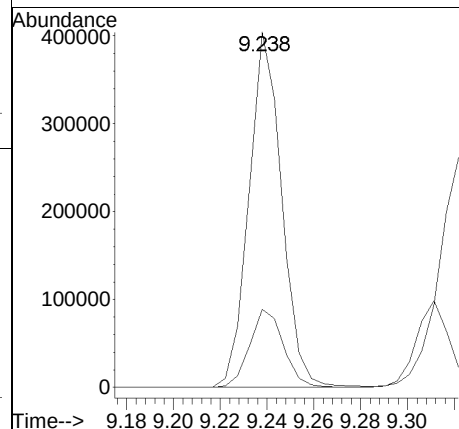
158 97.8 75.9 113.9

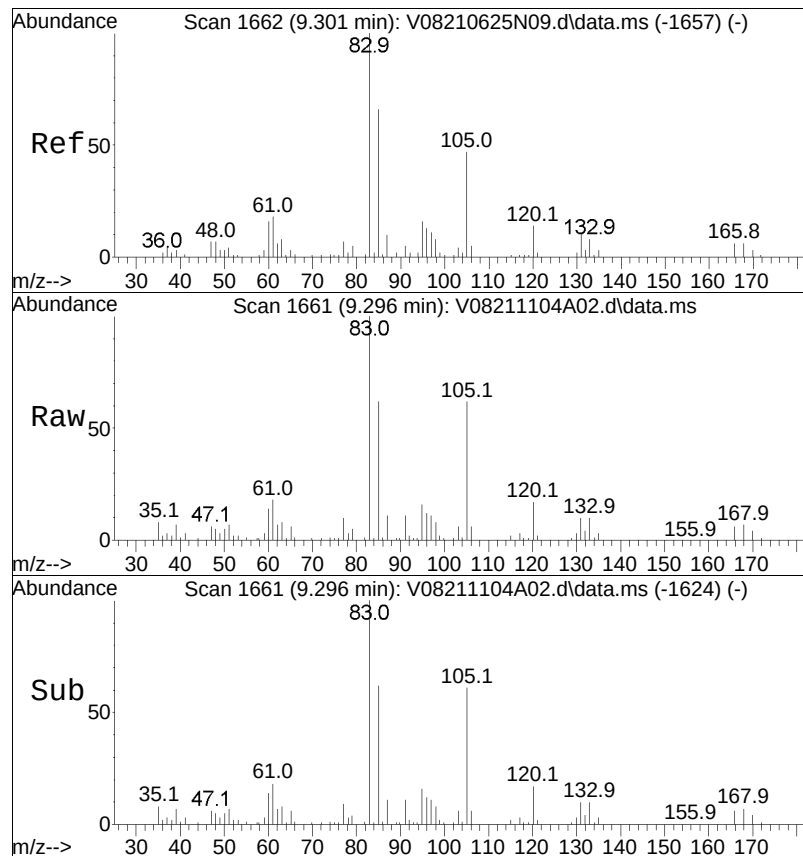




#85
 n-Propylbenzene
 Concen: 10.30 ug/L
 RT: 9.238 min Scan# 1650
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

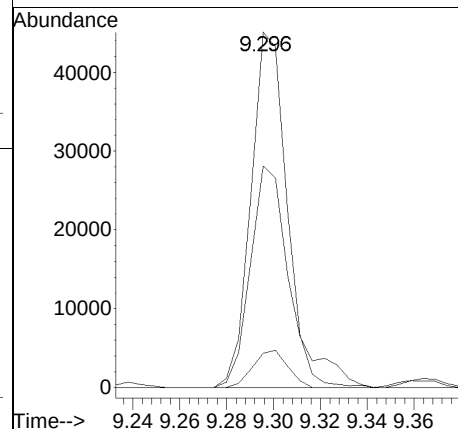
Tgt Ion:	91	Resp:	394088
Ion Ratio	100	Lower	Upper
120	22.7	17.0	25.6

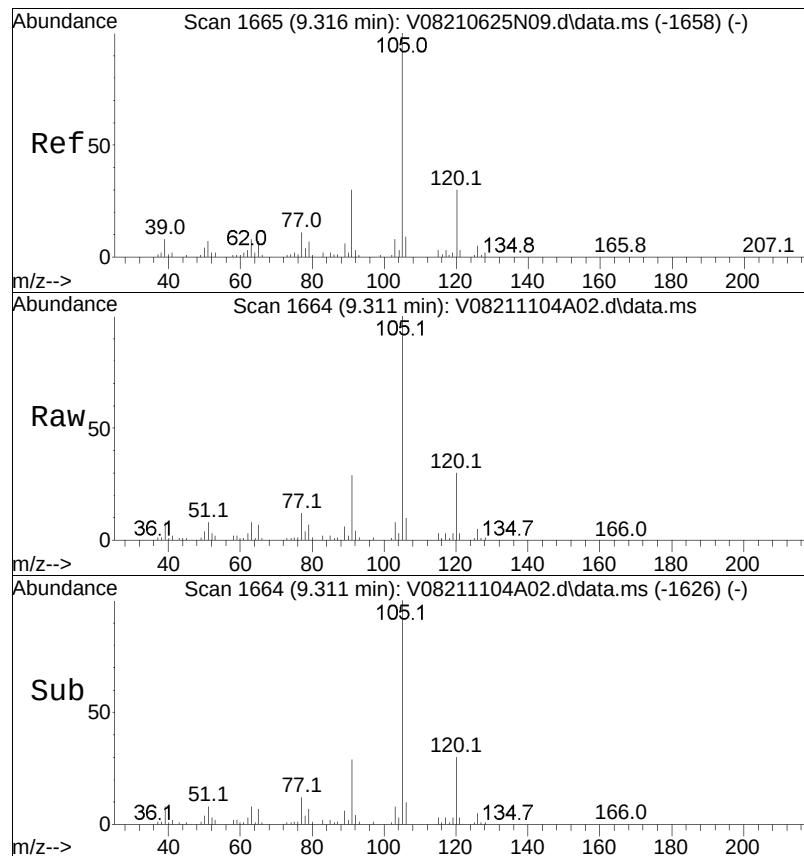




#87
 1,1,2,2-Tetrachloroethane
 Concen: 9.20 ug/L
 RT: 9.296 min Scan# 1661
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

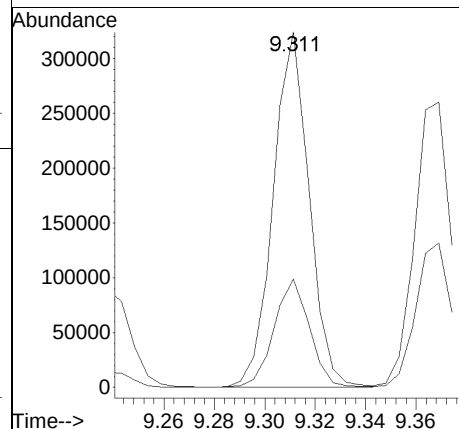
Tgt Ion:	83	Resp:	47812
Ion Ratio	Lower	Upper	
83	100		
131	10.2	0.0	30.4
85	71.0	45.4	85.4

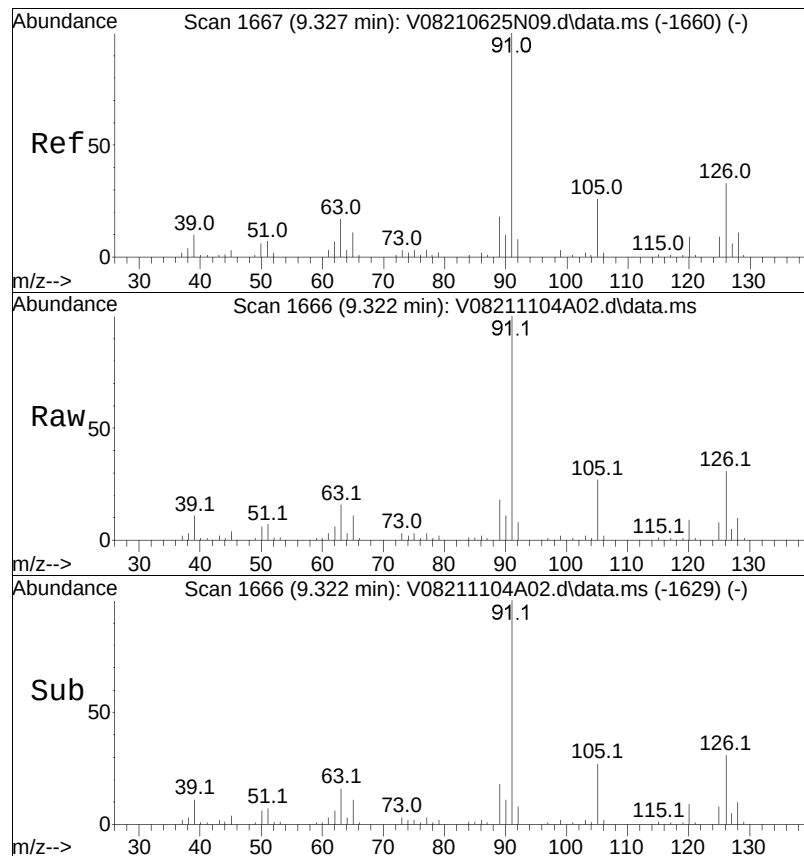




#88
 4-Ethyltoluene
 Concen: 10.41 ug/L
 RT: 9.311 min Scan# 1664
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

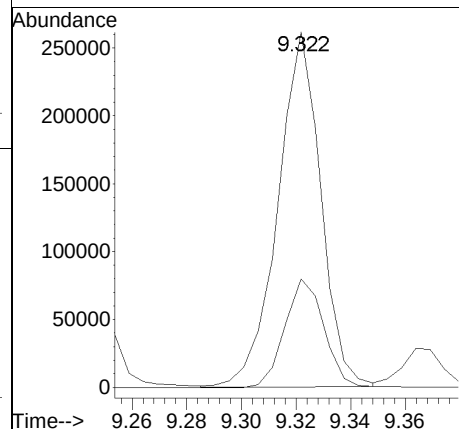
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	320244		
120	120	29.9		18.1	37.7

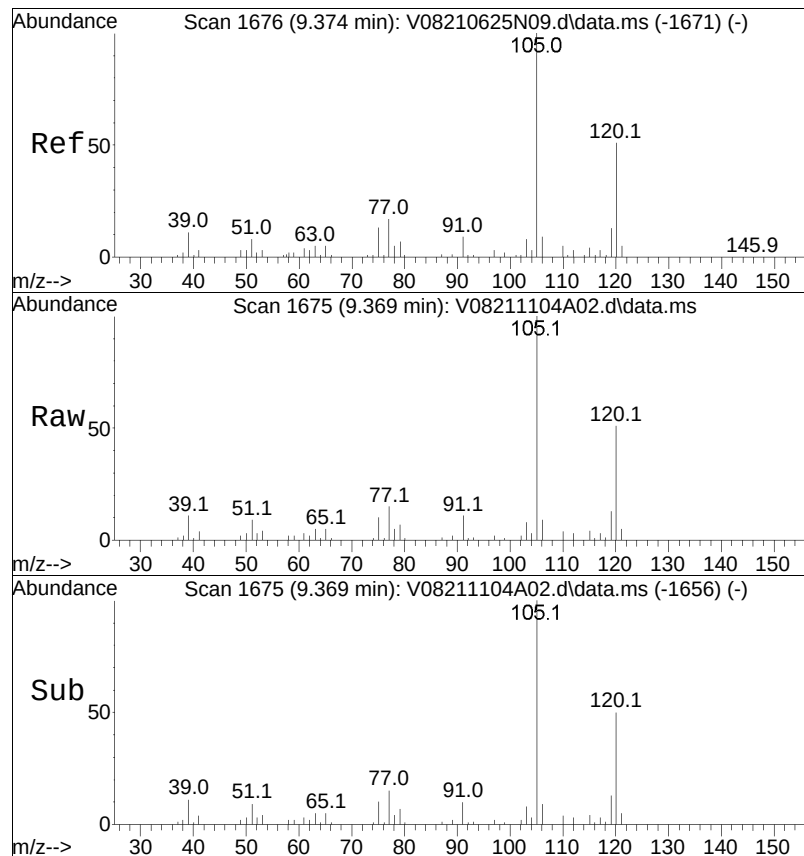




#89
 2-Chlorotoluene
 Concen: 10.52 ug/L
 RT: 9.322 min Scan# 1666
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

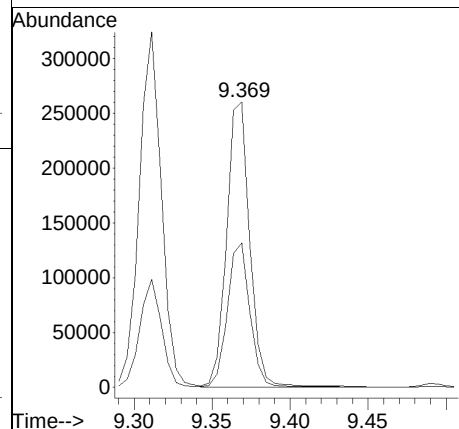
Tgt	Ion	Resp	Lower	Upper
91	100	285410		
126	28.0	21.5	32.3	

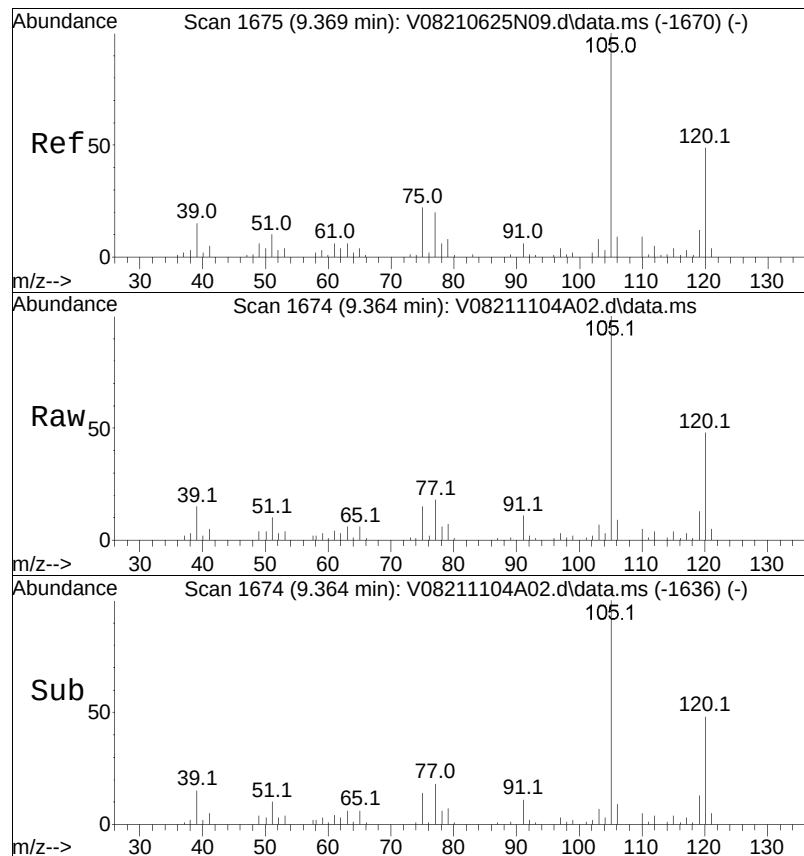




#90
 1,3,5-Trimethylbenzene
 Concen: 9.89 ug/L
 RT: 9.369 min Scan# 1675
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

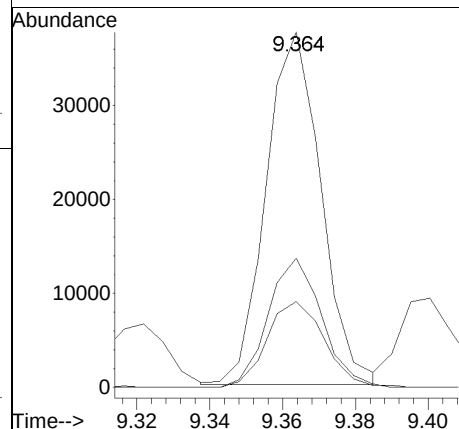
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	34.8	52.2

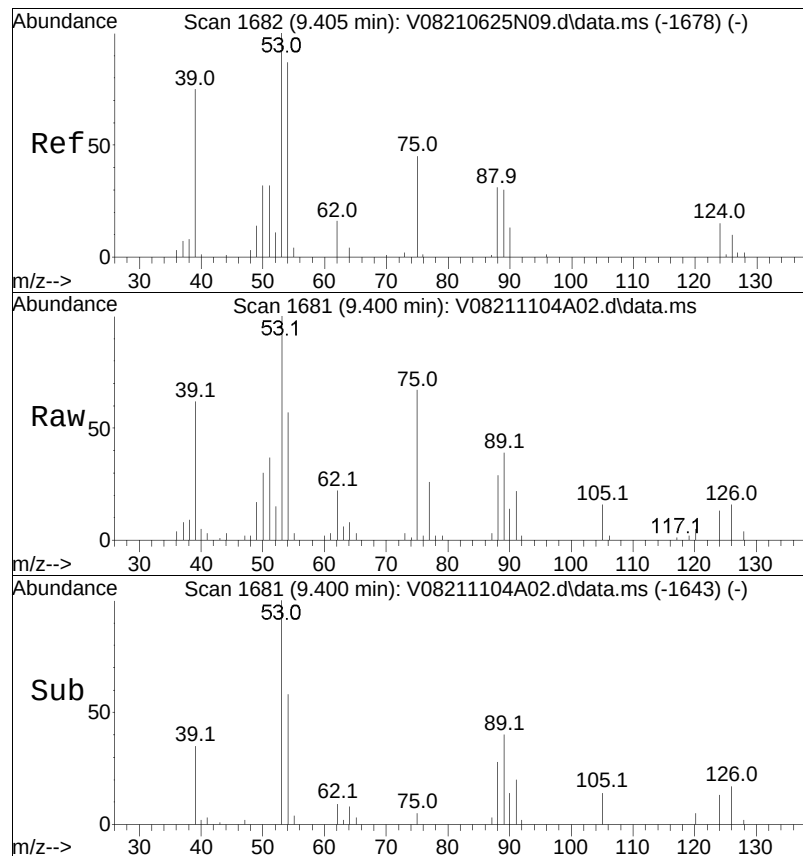




#91
 1,2,3-Trichloropropane
 Concen: 9.05 ug/L
 RT: 9.364 min Scan# 1674
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

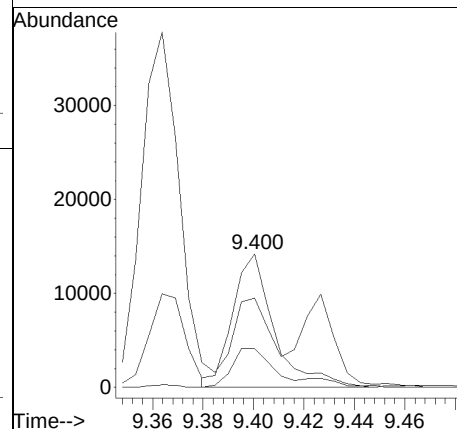
Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.7	25.4	52.8
112	25.5	15.6	32.4

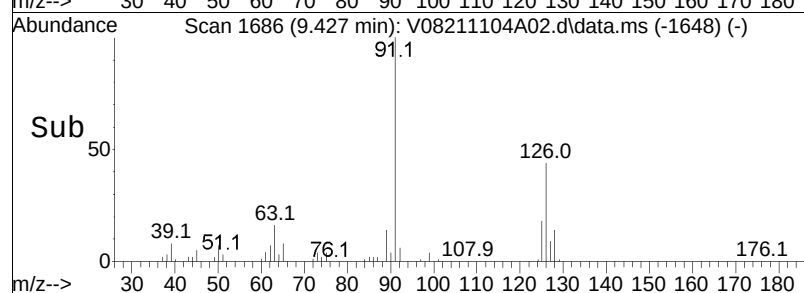
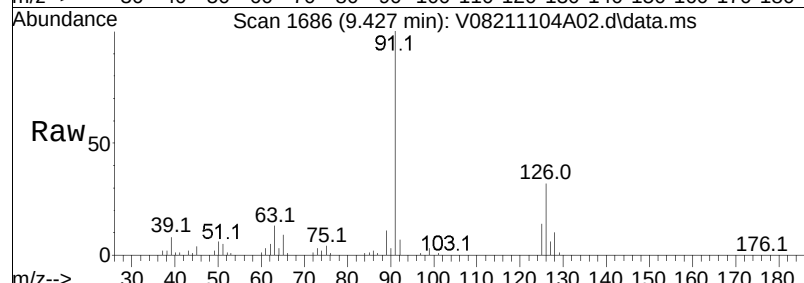
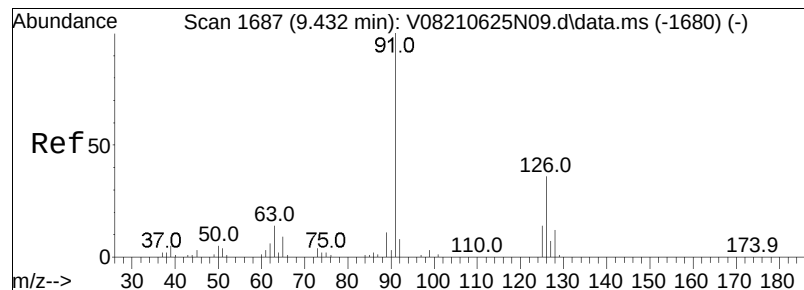




#92
 trans-1,4-Dichloro-2-butene
 Concen: 9.28 ug/L
 RT: 9.400 min Scan# 1681
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

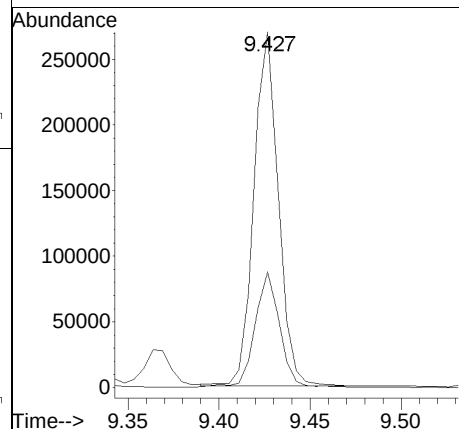
Tgt	Ion	Ratio	Lower	Upper
53	100			
88	34.2	39.6	59.4#	
75	59.7	70.2	105.4#	

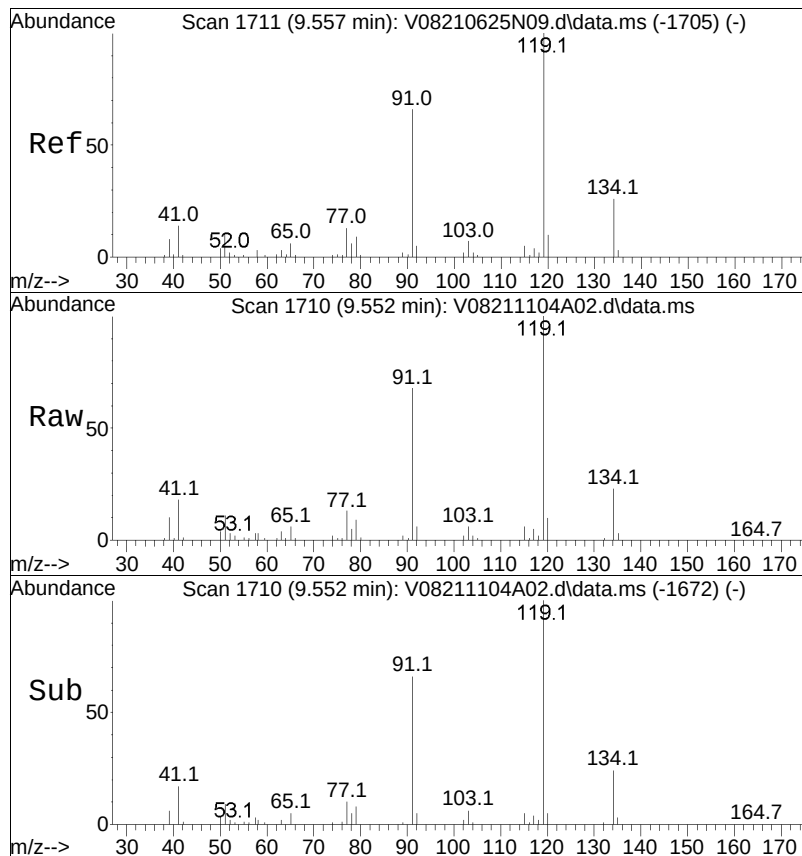




#93
 4-Chlorotoluene
 Concen: 10.21 ug/L
 RT: 9.427 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

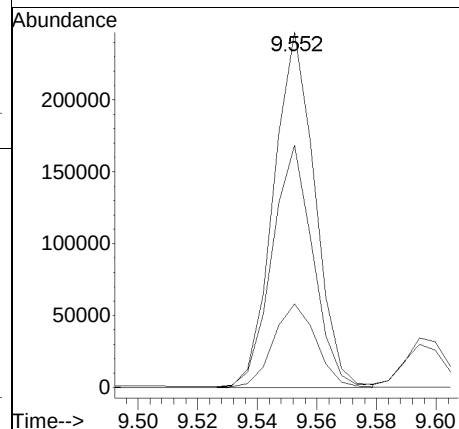
Tgt Ion:	91	Resp:	251935
Ion Ratio	Lower	Upper	
91	100		
126	32.9	24.6	36.8

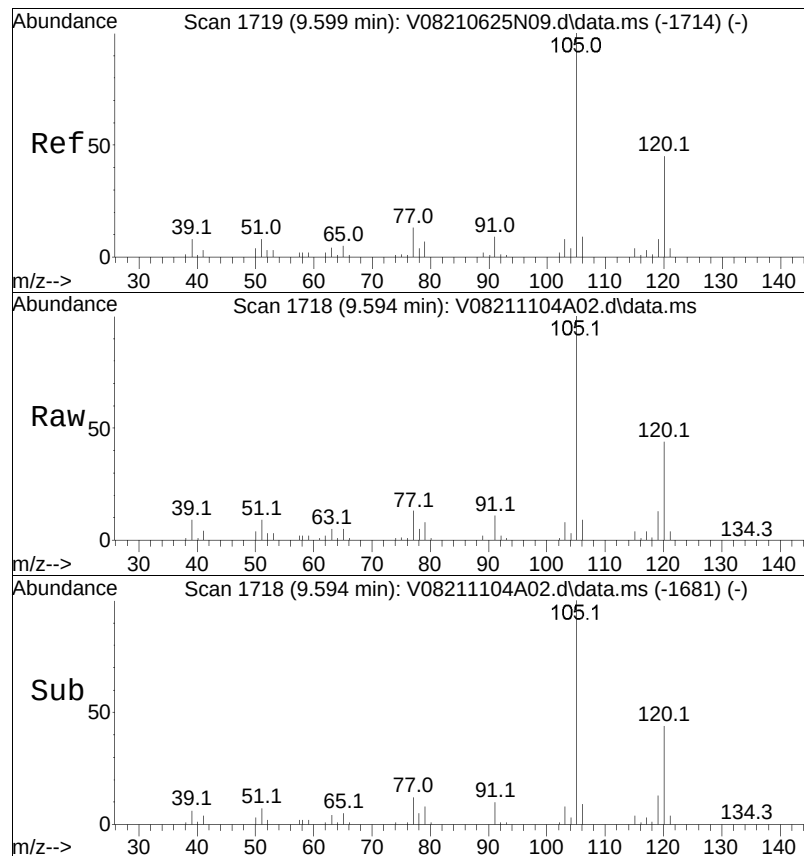




#94
 tert-Butylbenzene
 Concen: 9.91 ug/L
 RT: 9.552 min Scan# 1710
 Delta R.T. -0.001 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

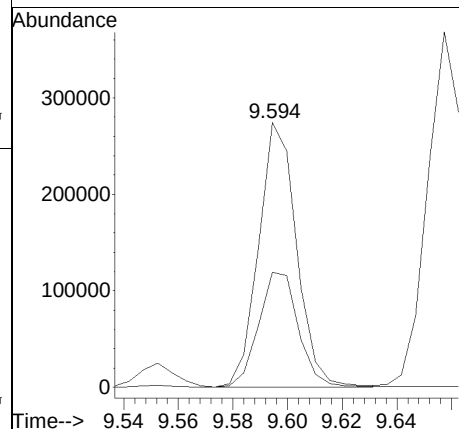
Tgt Ion	Ratio	Lower	Upper
119	100		
91	67.2	51.4	77.2
134	24.5	18.3	27.5

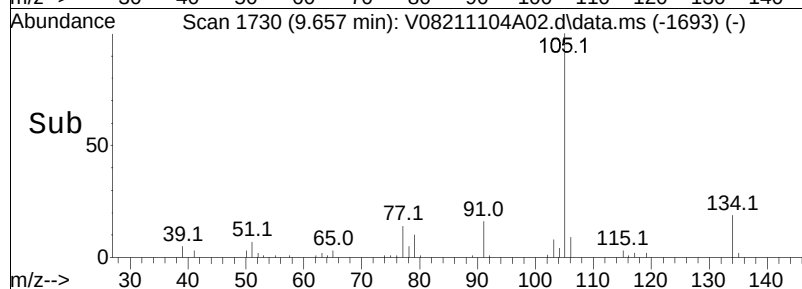
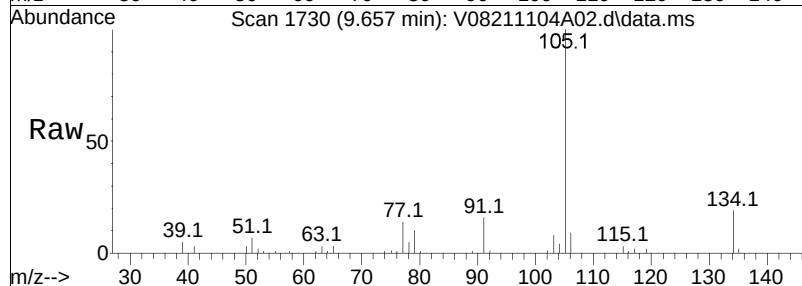
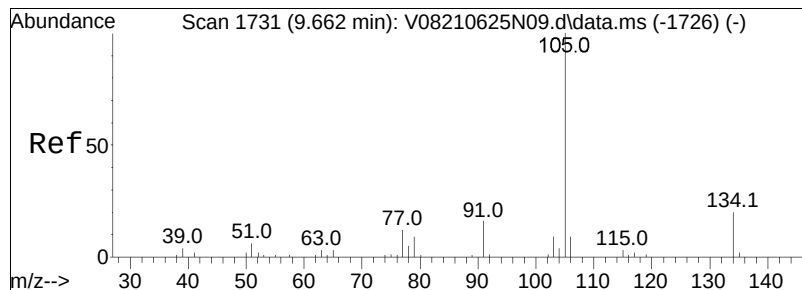




#97
 1,2,4-Trimethylbenzene
 Concen: 9.94 ug/L
 RT: 9.594 min Scan# 1718
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

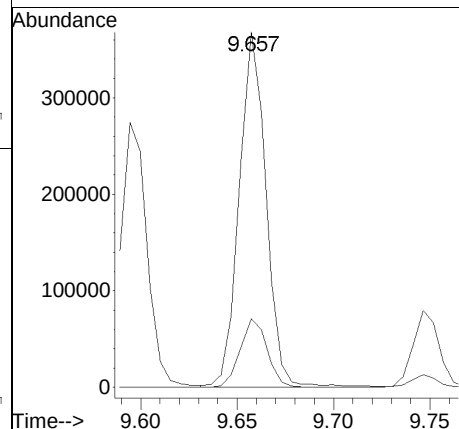
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	33.4	50.0

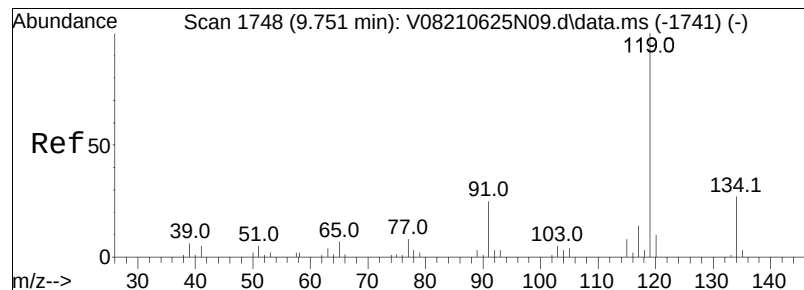




#98
 sec-Butylbenzene
 Concen: 10.40 ug/L
 RT: 9.657 min Scan# 1730
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

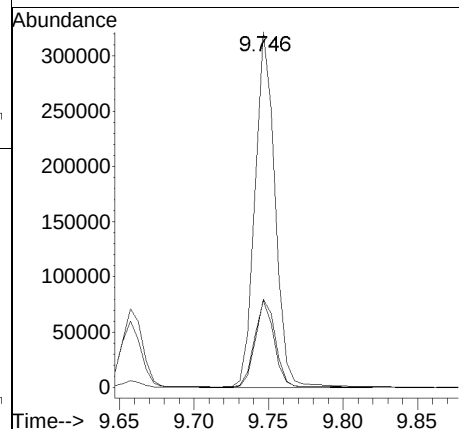
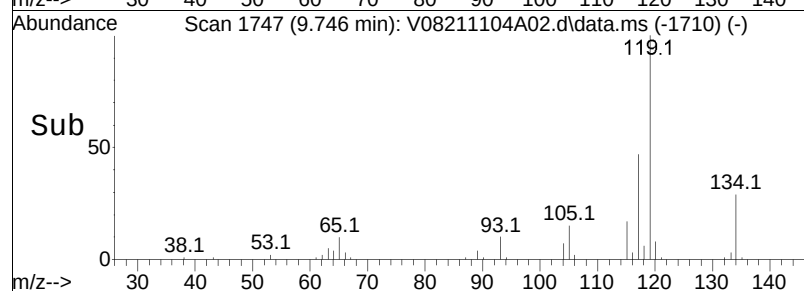
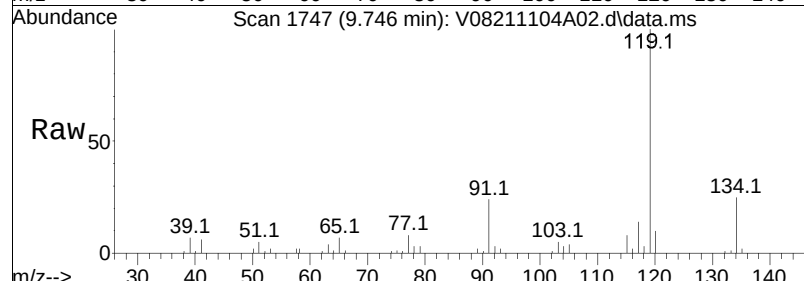
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	19.5	12.5	26.1	

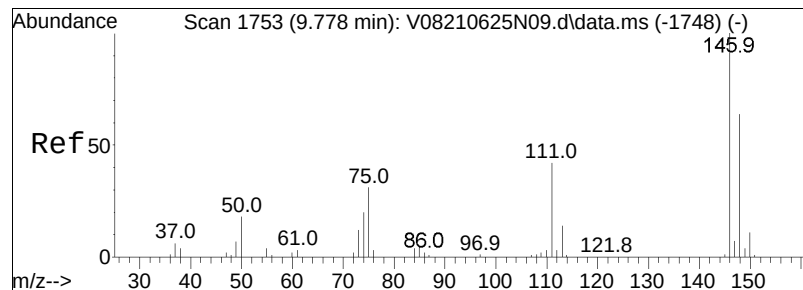




#99
 p-Isopropyltoluene
 Concen: 10.18 ug/L
 RT: 9.746 min Scan# 1747
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

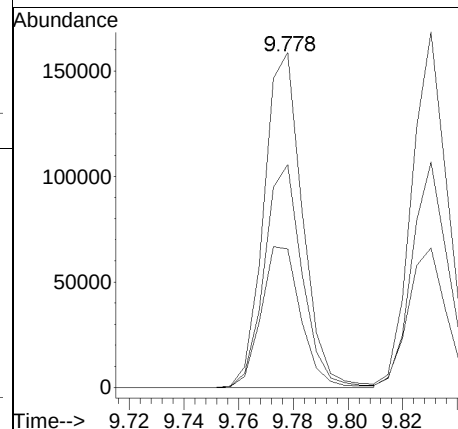
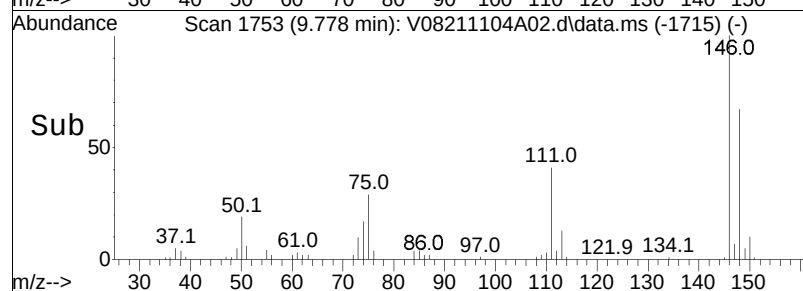
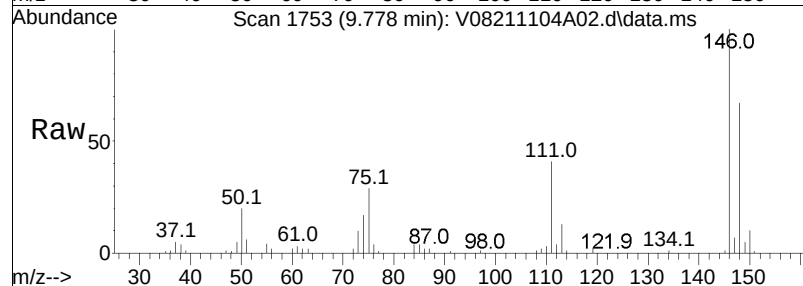
Tgt	Ion:119	Resp:	302062
Ion	Ratio	Lower	Upper
119	100		
134	24.8	16.1	33.3
91	23.5	17.3	35.9

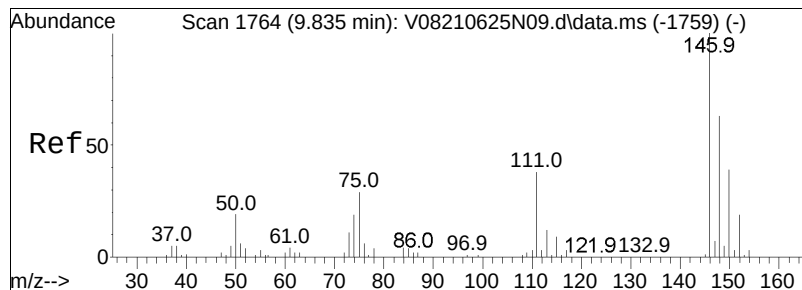




#100
 1,3-Dichlorobenzene
 Concen: 9.88 ug/L
 RT: 9.778 min Scan# 1753
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

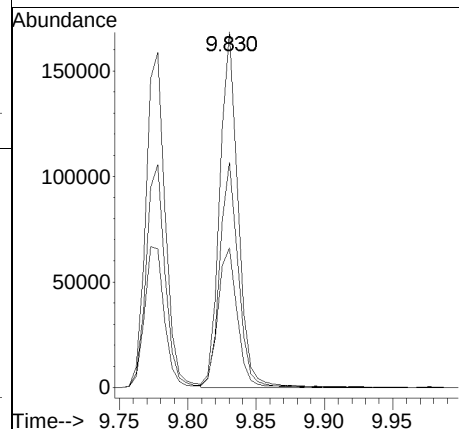
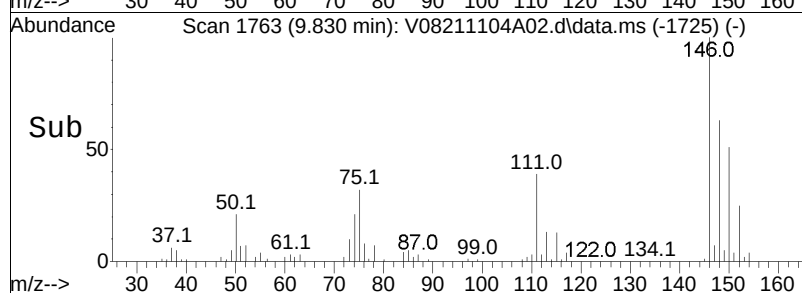
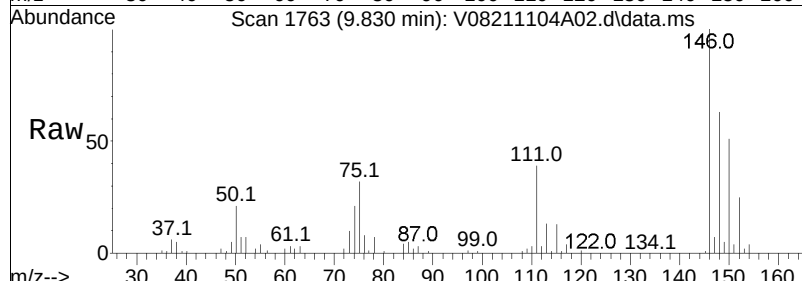
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	27.5	57.1
148	65.3	41.9	86.9

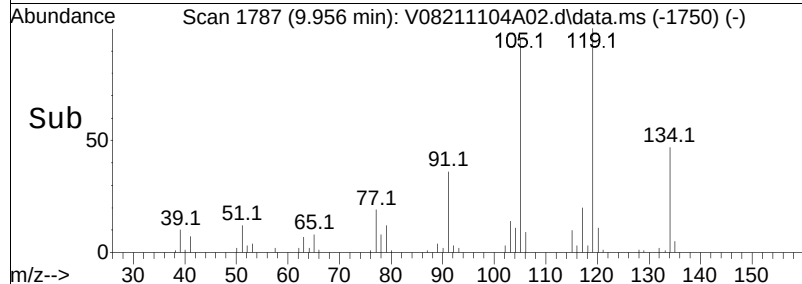
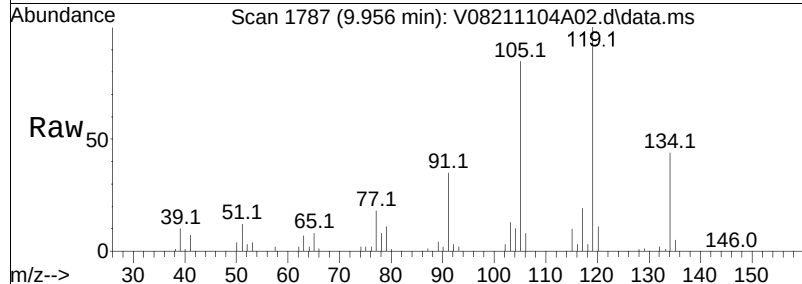
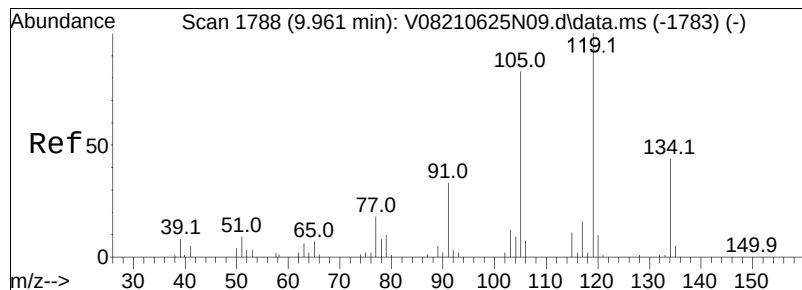




#101
 1,4-Dichlorobenzene
 Concen: 9.87 ug/L
 RT: 9.830 min Scan# 1763
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

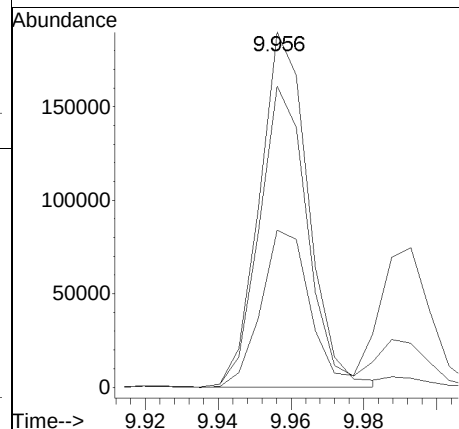
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	32.3	48.5
148	63.2	49.9	74.9

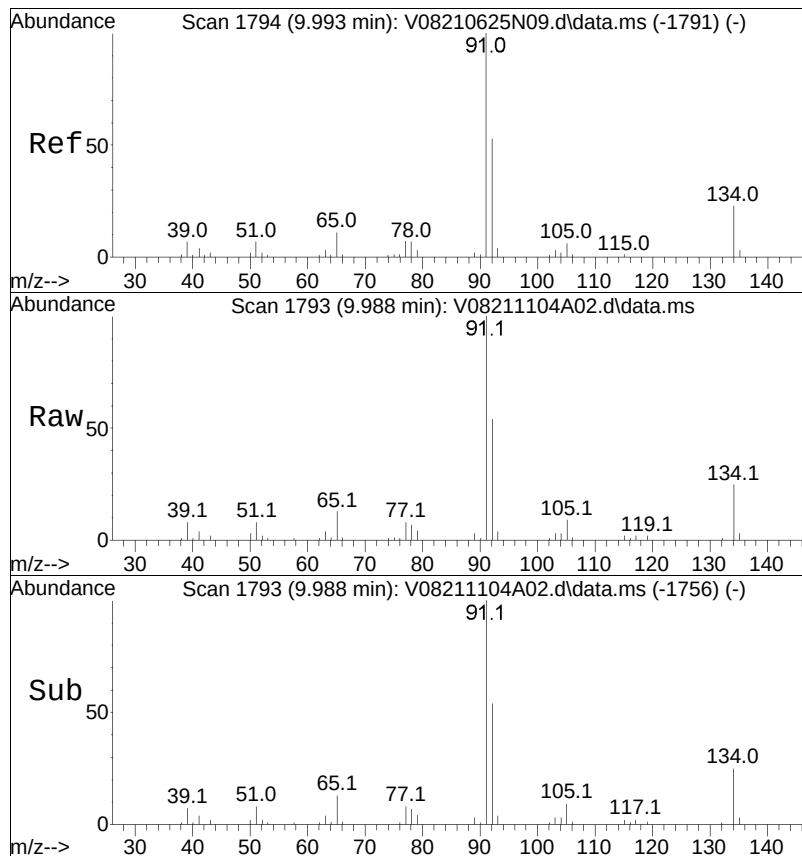




#102
 p-Diethylbenzene
 Concen: 9.98 ug/L
 RT: 9.956 min Scan# 1787
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

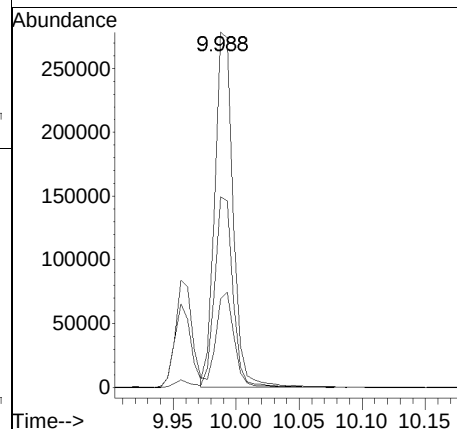
Tgt	Ion:119	Resp:	176264
Ion	Ratio	Lower	Upper
119	100		
105	83.2	59.5	123.7
134	45.0	30.2	62.6

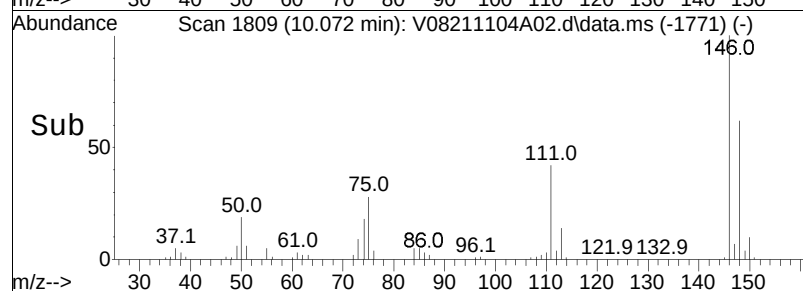
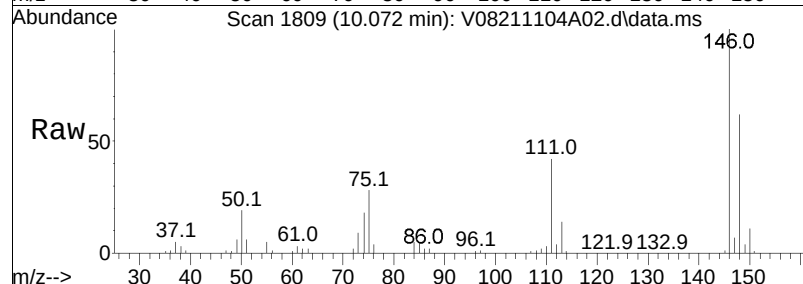
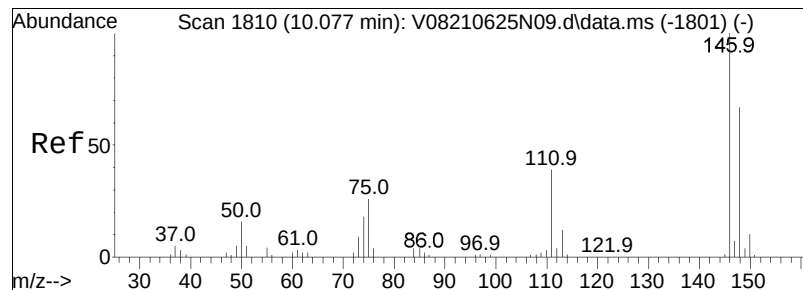




#103
 n-Butylbenzene
 Concen: 10.67 ug/L
 RT: 9.988 min Scan# 1793
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

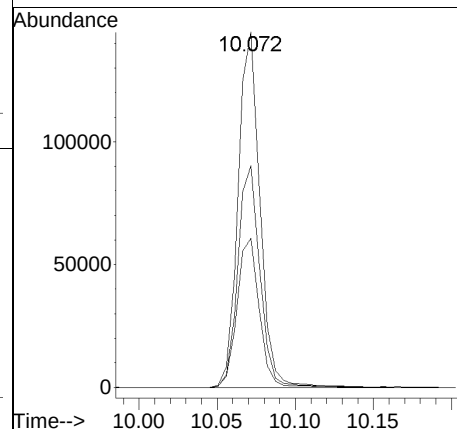
Tgt Ion:	91	Resp:	282606
Ion Ratio	Lower	Upper	
91	100		
92	53.9	43.0	64.4
134	25.4	19.6	29.4

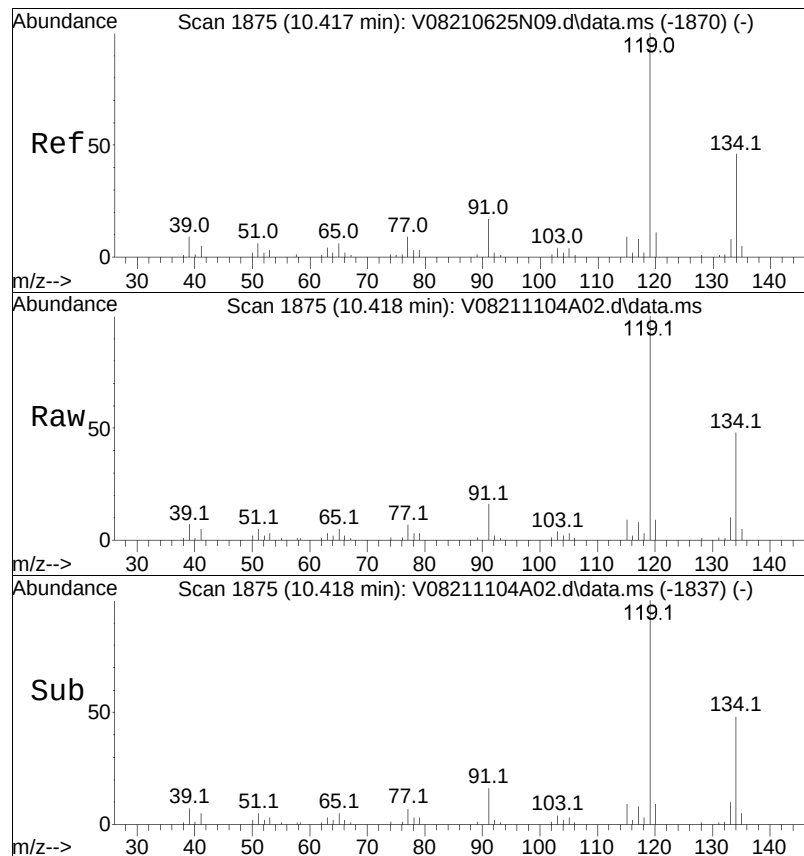




#104
 1,2-Dichlorobenzene
 Concen: 9.74 ug/L
 RT: 10.072 min Scan# 1809
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

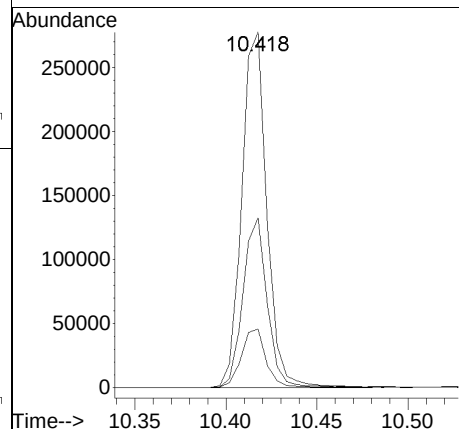
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	28.3	58.7
148	63.0	42.3	87.8

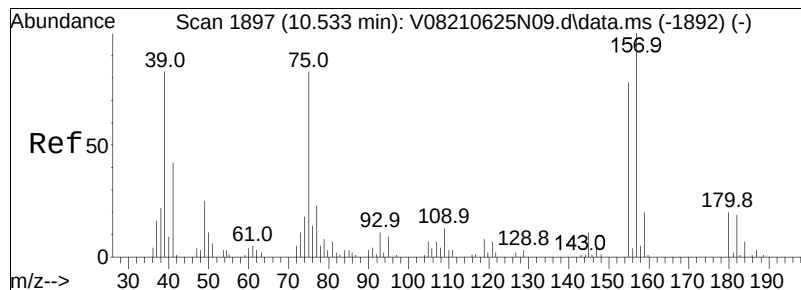




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.99 ug/L
 RT: 10.418 min Scan# 1875
 Delta R.T. -0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion	Ratio	Lower	Upper
119	100		
134	46.4	30.5	63.3
91	16.4	12.4	25.7





#106

1,2-Dibromo-3-chloropropane

Concen: 8.19 ug/L

RT: 10.528 min Scan# 1896

Delta R.T. -0.000 min

Lab File: V08211104A02.d

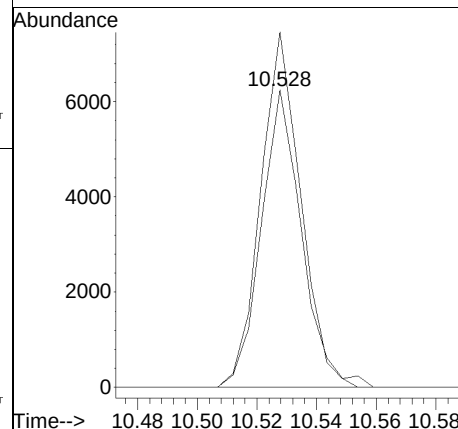
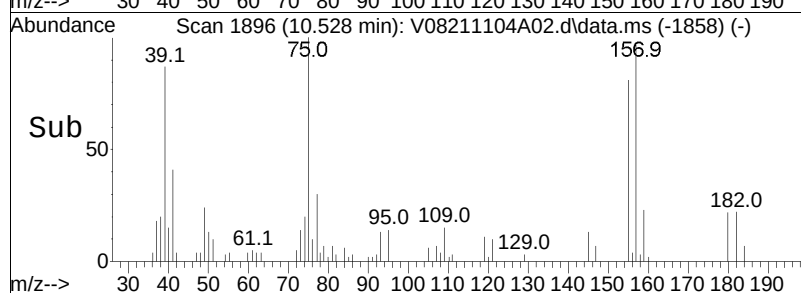
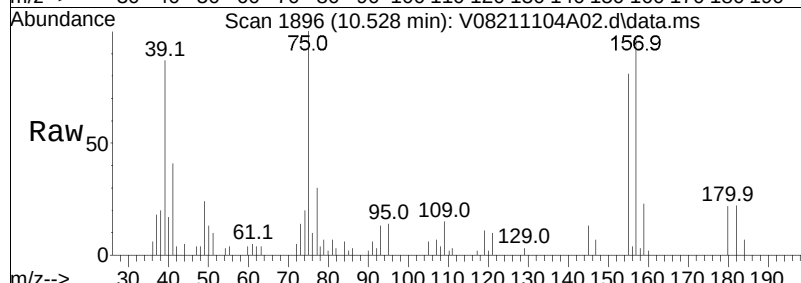
Acq: 4 Nov 2021 7:24 am

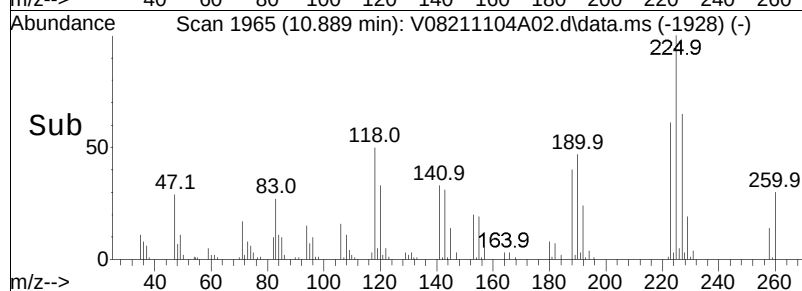
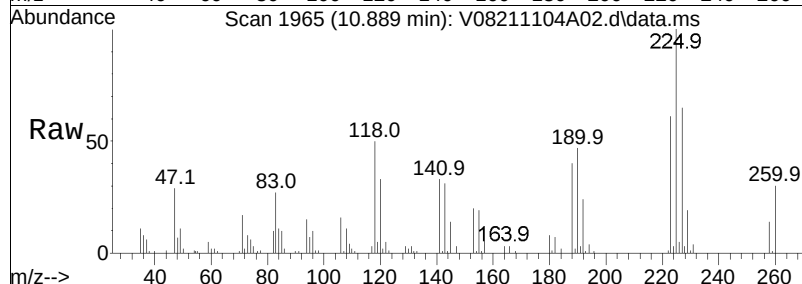
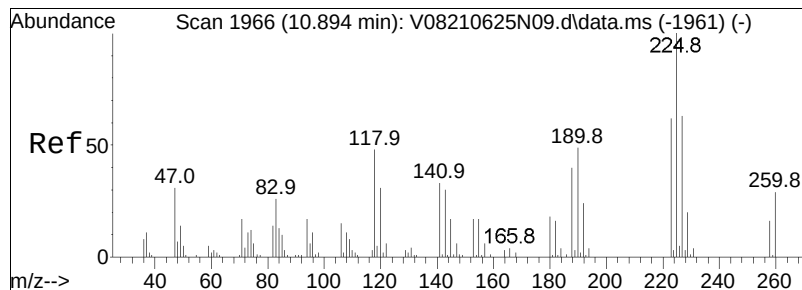
Tgt Ion:155 Resp: 5818

Ion Ratio Lower Upper

155 100

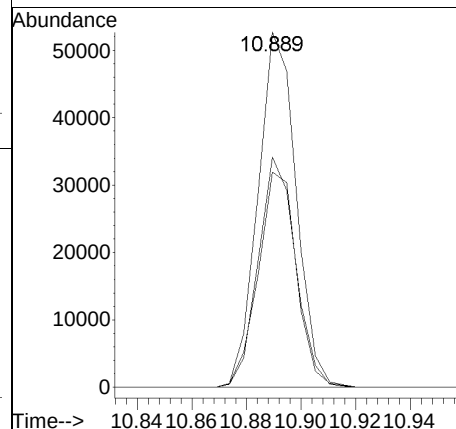
157 120.7 94.8 142.2

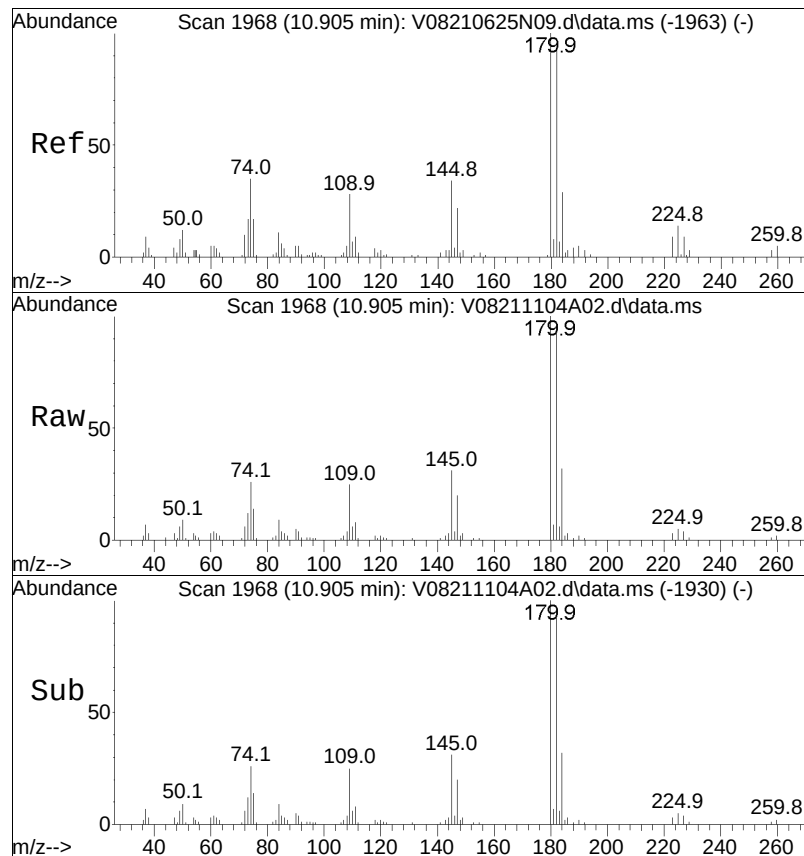




#108
 Hexachlorobutadiene
 Concen: 10.49 ug/L
 RT: 10.889 min Scan# 1965
 Delta R.T. -0.006 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

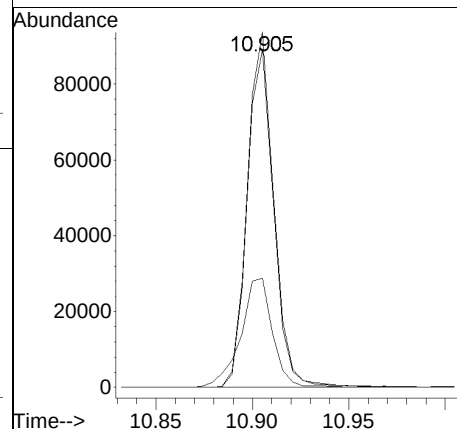
Tgt Ion:	225	Resp:	51253
Ion Ratio	Lower	Upper	
225	100		
223	61.0	54.3	81.5
227	63.3	52.4	78.6

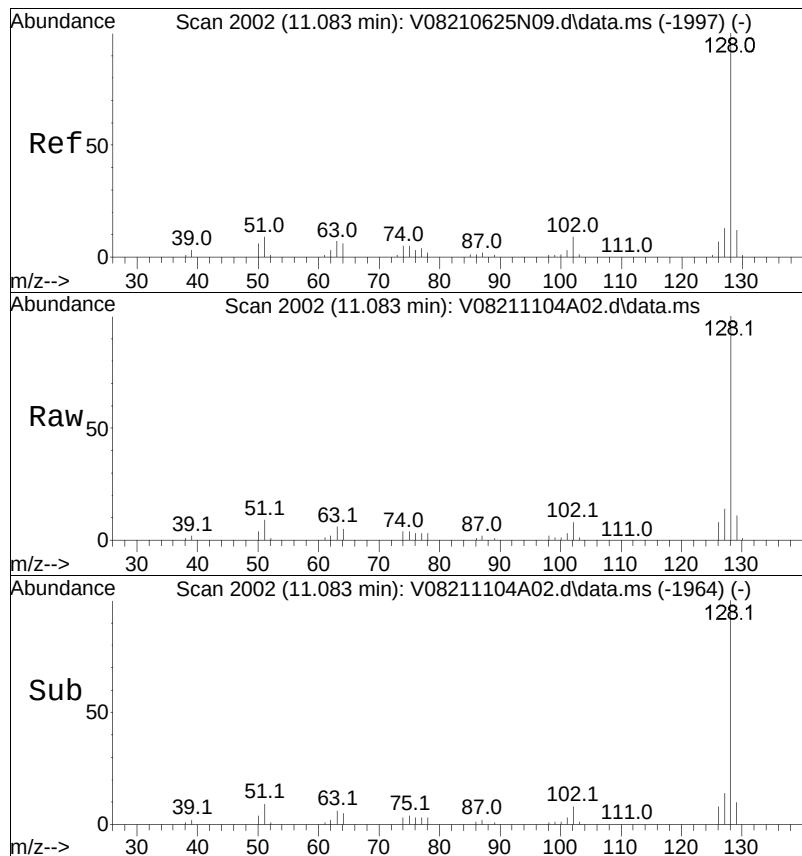




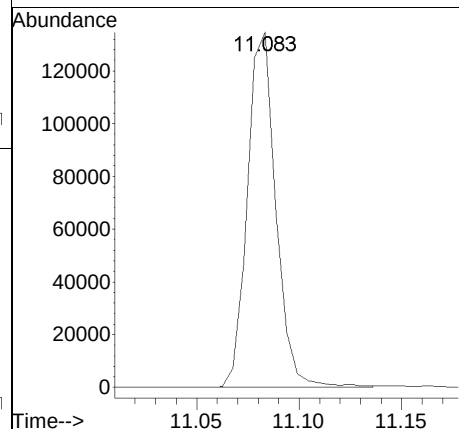
#109
 1,2,4-Trichlorobenzene
 Concen: 9.08 ug/L
 RT: 10.905 min Scan# 1968
 Delta R.T. 0.000 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

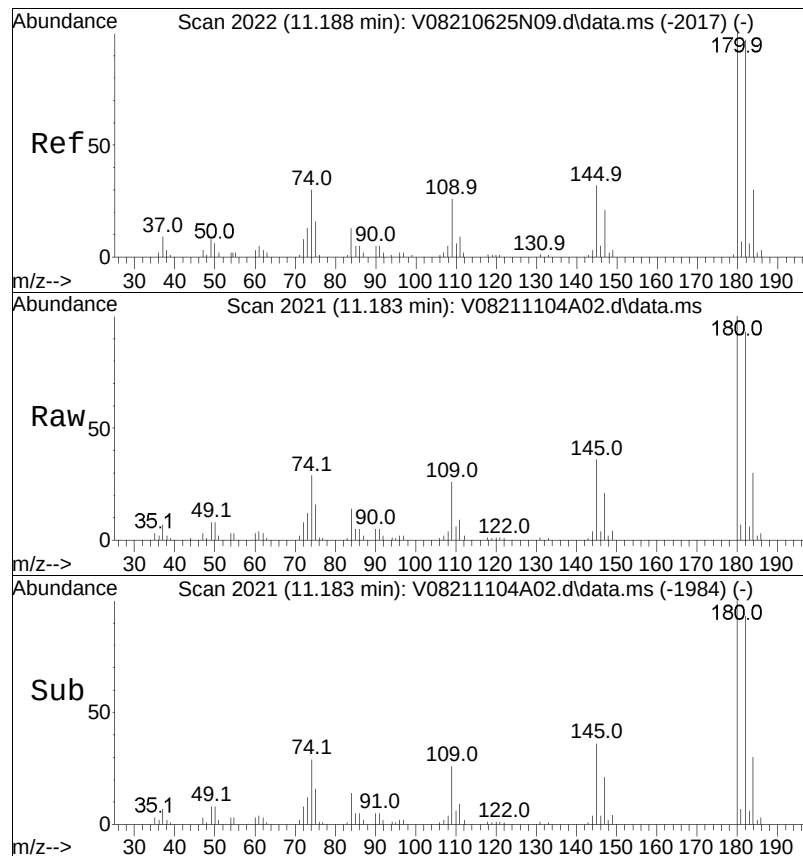
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.3	115.9
145	36.9	28.1	42.1





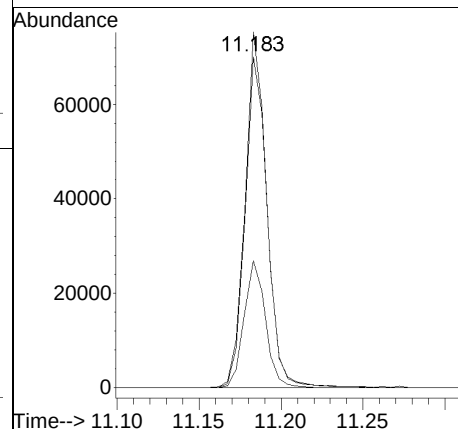
#110
 Naphthalene
 Concen: 7.47 ug/L
 RT: 11.083 min Scan# 2002
 Delta R.T. -0.001 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am
 Tgt Ion:128 Resp: 130489





#111
 1,2,3-Trichlorobenzene
 Concen: 8.14 ug/L
 RT: 11.183 min Scan# 2021
 Delta R.T. -0.005 min
 Lab File: V08211104A02.d
 Acq: 4 Nov 2021 7:24 am

Tgt Ion:	180	Resp:	69224
Ion Ratio	Lower	Upper	
180	100		
182	95.4	76.4	114.6
145	35.0	26.4	39.6



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A03.D
 Acq On : 4 Nov 2021 7:31 am
 Operator : VOA104:MV
 Sample : WG1567116-4,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 08:05:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	266332	20.000	ug/L	0.00
Standard Area 1 = 263077			Recovery	=	101.24%	
59) Chlorobenzene-d5	9.057	117	191059	20.000	ug/L	0.00
Standard Area 1 = 187330			Recovery	=	101.99%	
79) 1,4-Dichlorobenzene-d4	11.852	152	103077	20.000	ug/L	0.00
Standard Area 1 = 102658			Recovery	=	100.41%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	70086	17.276	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	86.38%	
43) 1,2-Dichloroethane-d4	5.309	65	65144	16.939	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	84.69%	
60) Toluene-d8	7.233	98	246245	20.469	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.35%	
83) 4-Bromofluorobenzene	10.599	95	89725	18.795	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.98%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	132915	34.367	ug/L	99
3) Chloromethane	1.675	50	233359	45.341	ug/L	99
4) Vinyl chloride	1.722	62	190206	44.522	ug/L	97
5) Bromomethane	2.000	94	99225	52.256	ug/L	98
6) Chloroethane	2.105	64	89512	50.759	ug/L	93
7) Trichlorofluoromethane	2.226	101	200416	36.017	ug/L	100
8) Ethyl ether	2.488	74	65917	34.139	ug/L	86
10) 1,1-Dichloroethene	2.671	96	126435	39.328	ug/L	89
11) Carbon disulfide	2.698	76	405268	33.951	ug/L	99
15) Methylene chloride	3.185	84	146721	38.576	ug/L	83
17) Acetone	3.227	43	37319	48.425	ug/L	91
18) trans-1,2-Dichloroethene	3.327	96	141354	38.868	ug/L	89
20) Methyl tert-butyl ether	3.405	73	314585	33.776	ug/L	94
23) 1,1-Dichloroethane	3.877	63	313946	38.390	ug/L	99
25) Acrylonitrile	3.935	53	40247	32.839	ug/L	99
27) Vinyl acetate	4.103	43	311175	38.328	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	157344	38.598	ug/L	90
29) 2,2-Dichloropropane	4.465	77	206957	35.923	ug/L	94
30) Bromochloromethane	4.559	128	72712	38.731	ug/L #	85
32) Chloroform	4.632	83	248528	34.796	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A03.D
 Acq On : 4 Nov 2021 7:31 am
 Operator : VOA104:MV
 Sample : WG1567116-4,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 08:05:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.748	117	189486	35.553	ug/L	100
37) 1,1,1-Trichloroethane	4.811	97	209484	37.002	ug/L	97
39) 2-Butanone	4.915	43	48640	33.583	ug/L	100
40) 1,1-Dichloropropene	4.931	75	181692	39.422	ug/L	99
41) Benzene	5.167	78	527240	38.945	ug/L	96
44) 1,2-Dichloroethane	5.377	62	187520	35.262	ug/L	100
48) Trichloroethene	5.749	95	141441	37.963	ug/L	98
50) Dibromomethane	6.190	93	78067	36.021	ug/L	99
51) 1,2-Dichloropropane	6.284	63	169663	37.682	ug/L	95
54) Bromodichloromethane	6.368	83	187463	36.556	ug/L	99
57) 1,4-Dioxane	6.567	88	52791	1792.071	ug/L #	82
58) cis-1,3-Dichloropropene	7.039	75	218129	39.444	ug/L	97
61) Toluene	7.291	92	315924	39.535	ug/L	100
62) 4-Methyl-2-pentanone	7.736	58	43360	36.907	ug/L	98
63) Tetrachloroethene	7.731	166	153342	40.969	ug/L	98
65) trans-1,3-Dichloropropene	7.789	75	178594	39.675	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	88113	39.483	ug/L	99
69) Chlorodibromomethane	8.171	129	136623	41.204	ug/L	100
70) 1,3-Dichloropropane	8.282	76	173015	39.486	ug/L	100
71) 1,2-Dibromoethane	8.439	107	105964	35.371	ug/L	100
72) 2-Hexanone	8.738	43	75496	33.598	ug/L	97
73) Chlorobenzene	9.078	112	361846	39.287	ug/L	99
74) Ethylbenzene	9.115	91	605621	38.876	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.168	131	132908	39.621	ug/L	99
76) p/m Xylene	9.304	106	476480	82.939	ug/L	100
77) o Xylene	9.844	106	461719	75.386	ug/L	99
78) Styrene	9.923	104	768694	79.120	ug/L	100
80) Bromoform	9.949	173	79357	34.643	ug/L	99
82) Isopropylbenzene	10.253	105	598843	36.728	ug/L	99
84) Bromobenzene	10.709	156	163874	41.398	ug/L	99
85) n-Propylbenzene	10.756	91	715861	39.148	ug/L	99
87) 1,1,2,2-Tetrachloroethane	10.872	83	122070	35.966	ug/L	99
88) 4-Ethyltoluene	10.893	105	582122	36.997	ug/L	99
89) 2-Chlorotoluene	10.935	91	412755	37.666	ug/L	99
90) 1,3,5-Trimethylbenzene	10.997	105	459765	34.370	ug/L	97
91) 1,2,3-Trichloropropane	11.008	75	88128	33.541	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.071	53	40308	33.197	ug/L	98
93) 4-Chlorotoluene	11.123	91	425796	37.415	ug/L	99
94) tert-Butylbenzene	11.343	119	436401	38.587	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A03.D
 Acq On : 4 Nov 2021 7:31 am
 Operator : VOA104:MV
 Sample : WG1567116-4,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 08:05:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104A\V04211104A02.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.427	105	470565	35.203	ug/L	99
98)	sec-Butylbenzene	11.543	105	655667	36.971	ug/L	99
99)	p-Isopropyltoluene	11.700	119	547755	38.112	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	308286	39.521	ug/L	99
101)	1,4-Dichlorobenzene	11.868	146	309738	38.860	ug/L	99
102)	p-Diethylbenzene	12.088	119	336346	39.780	ug/L	98
103)	n-Butylbenzene	12.146	91	488521	38.259	ug/L	98
104)	1,2-Dichlorobenzene	12.298	146	289809	39.396	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.895	119	557991	40.640	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.095	155	21676	38.327	ug/L	99
108)	Hexachlorobutadiene	13.698	225	109476	34.678	ug/L	99
109)	1,2,4-Trichlorobenzene	13.724	180	208877	40.916	ug/L	99
110)	Naphthalene	14.017	128	407442	37.506	ug/L	100
111)	1,2,3-Trichlorobenzene	14.185	180	183183	39.398	ug/L	99

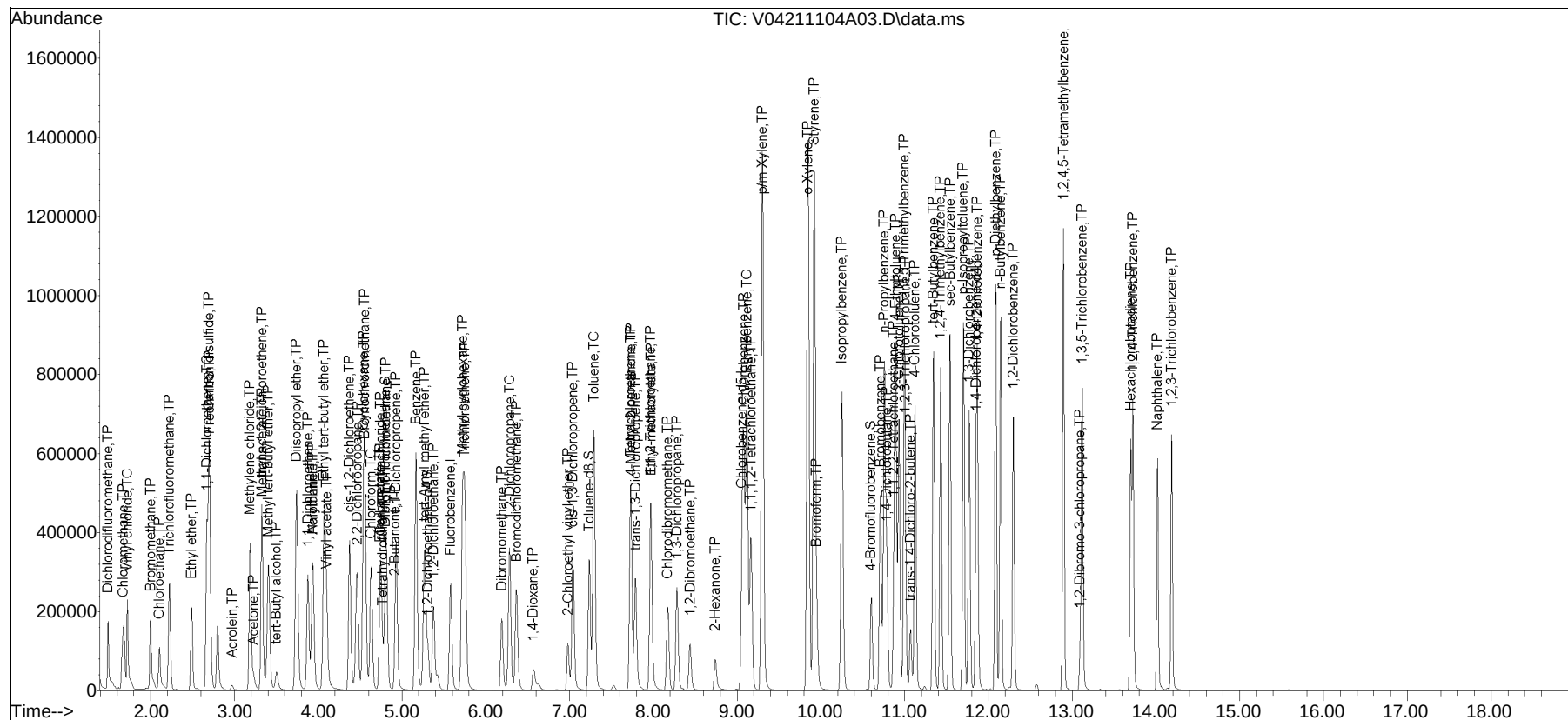
(#) = qualifier out of range (m) = manual integration (+) = signals summed

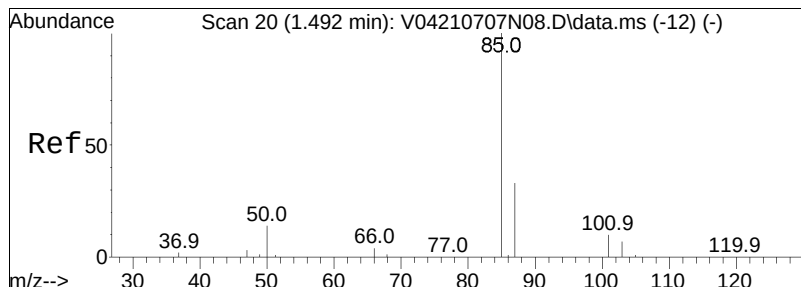
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104A\
 Data File : V04211104A03.D
 Acq On : 4 Nov 2021 7:31 am
 Operator : VOA104:MV
 Sample : WG1567116-4,31,5,5
 Misc : WG1567116,ICAL18128
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 08:05:23 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104A\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

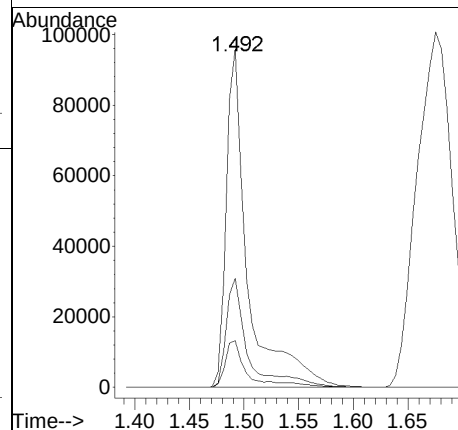
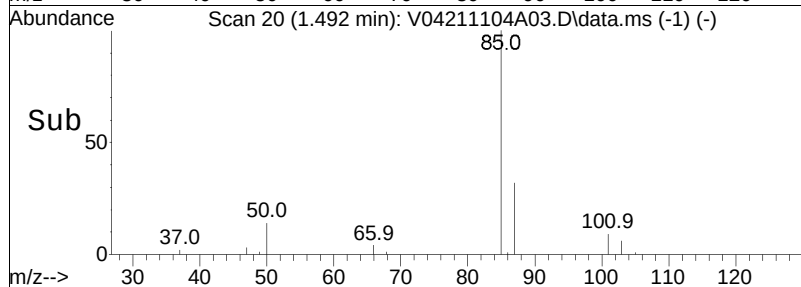
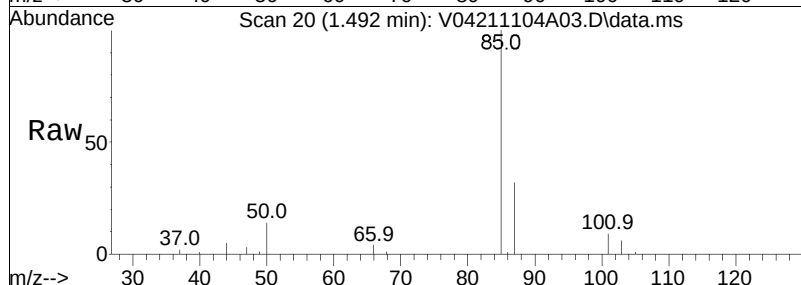
Sub List : 8260-CurveSoil - Megamix plus Diox4A\V04211104A02.D•

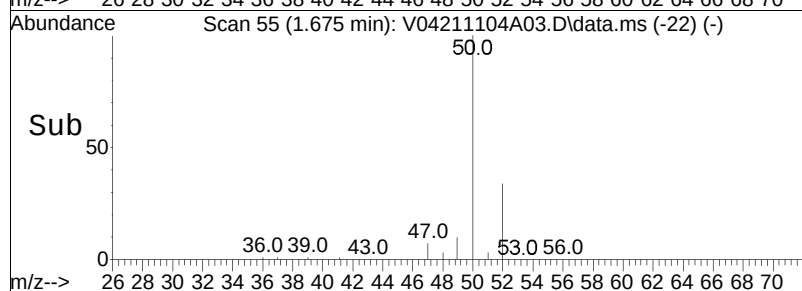
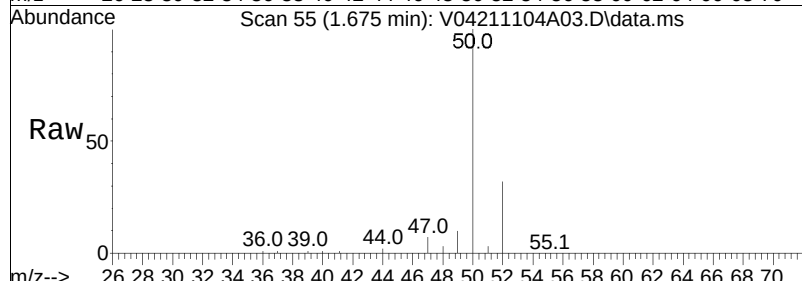
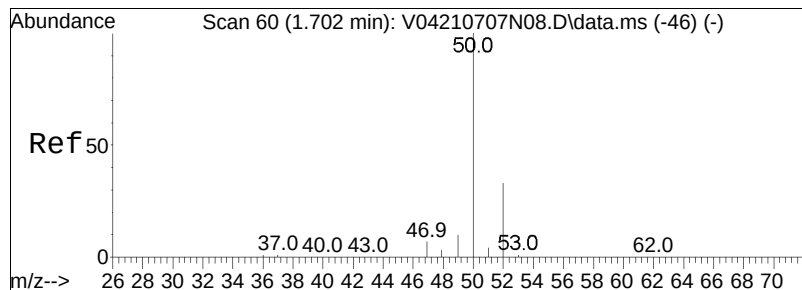




#2
 Dichlorodifluoromethane
 Concen: 34.37 ug/L
 RT: 1.492 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion	85	Resp:	132915
Ion Ratio	Lower	Upper	
85	100		
87	32.4	20.9	43.5
50	14.1	8.1	16.9





#3

Chloromethane

Concen: 45.34 ug/L

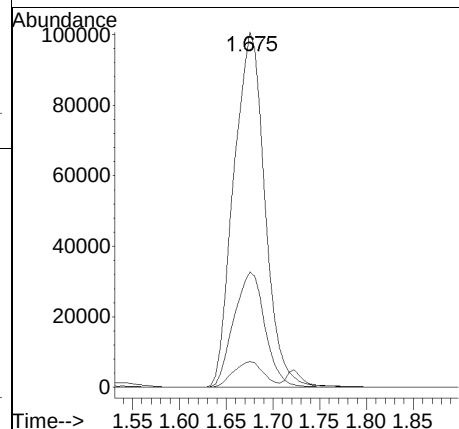
RT: 1.675 min Scan# 55

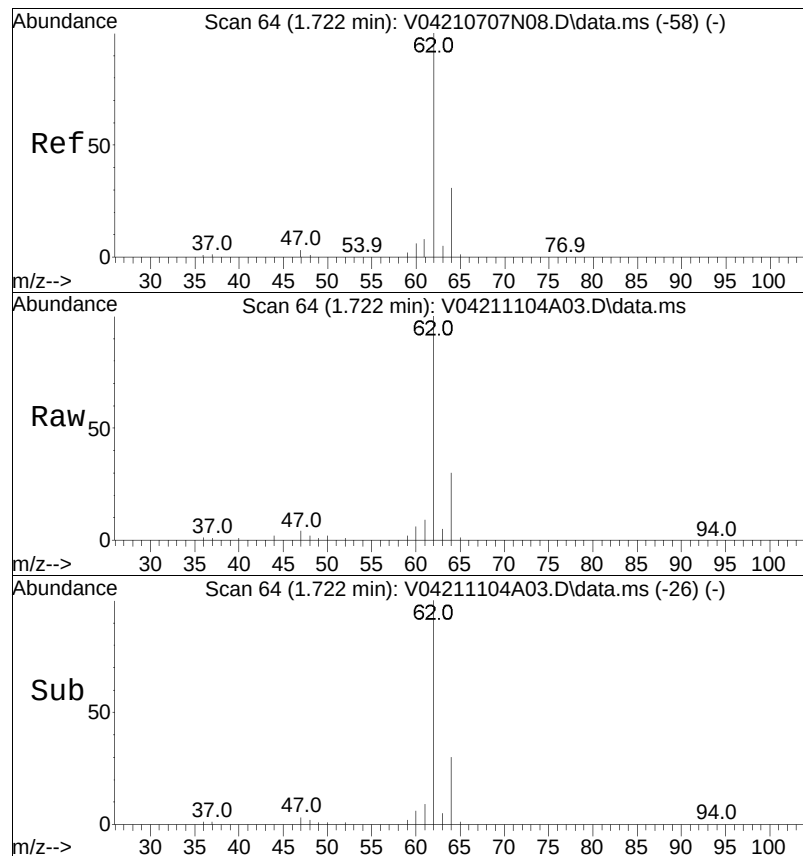
Delta R.T. -0.027 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am

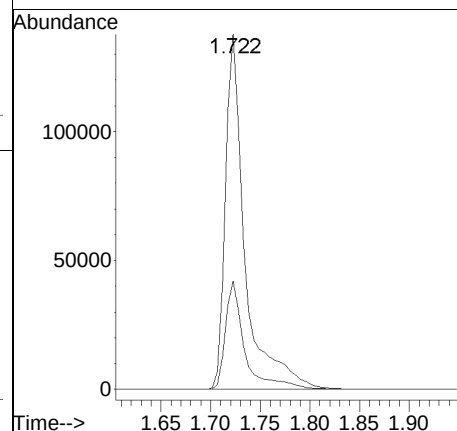
Tgt Ion:	50	Resp:	233359
Ion Ratio	Lower	Upper	
50	100		
52	32.6	13.0	53.0
47	7.2	0.0	28.2

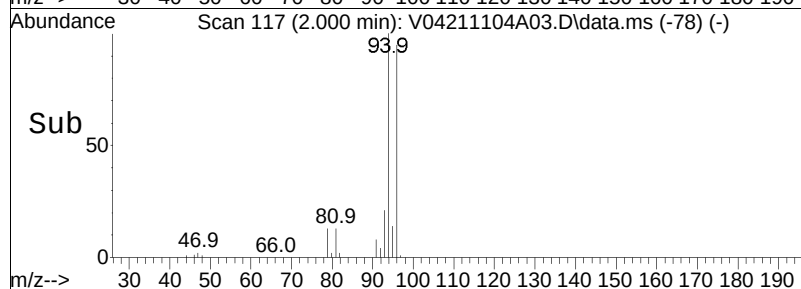
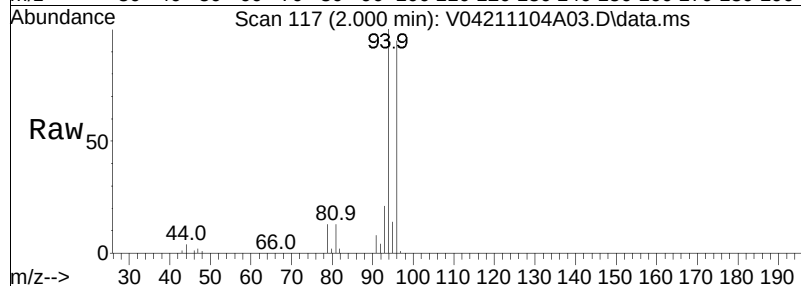
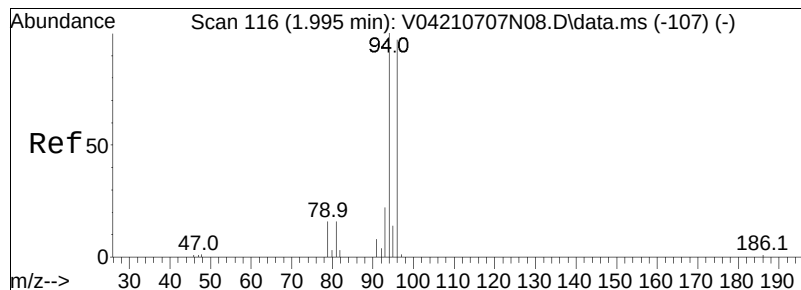




#4
 Vinyl chloride
 Concen: 44.52 ug/L
 RT: 1.722 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

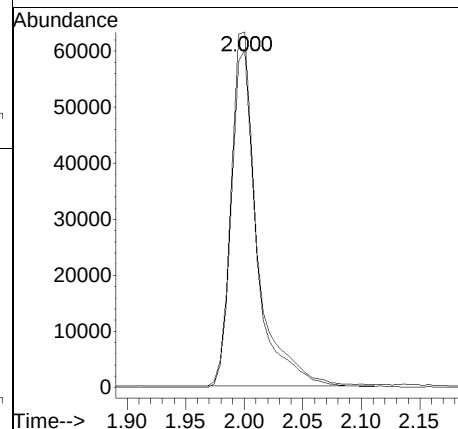
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	30.0	11.6	51.6	

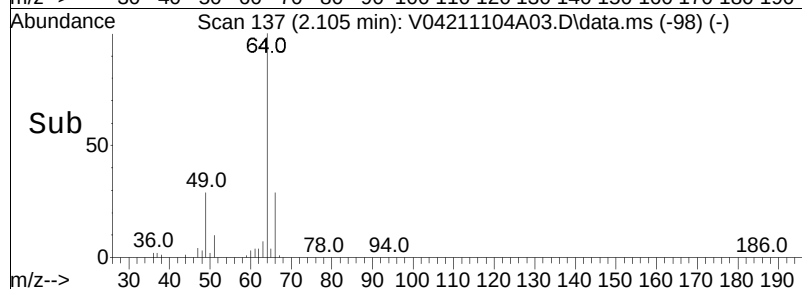
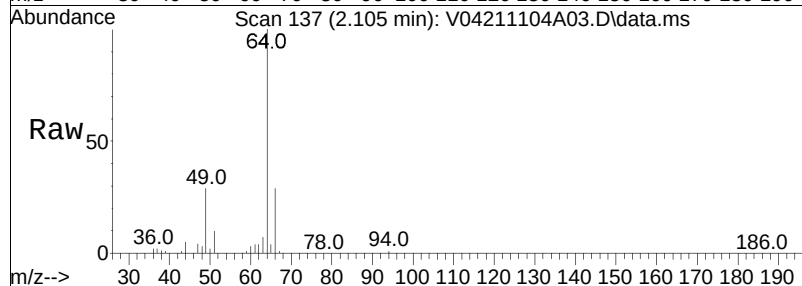
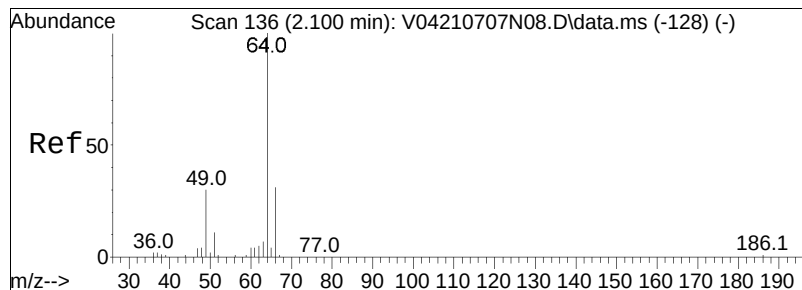




#5
 Bromomethane
 Concen: 52.26 ug/L
 RT: 2.000 min Scan# 117
 Delta R.T. 0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

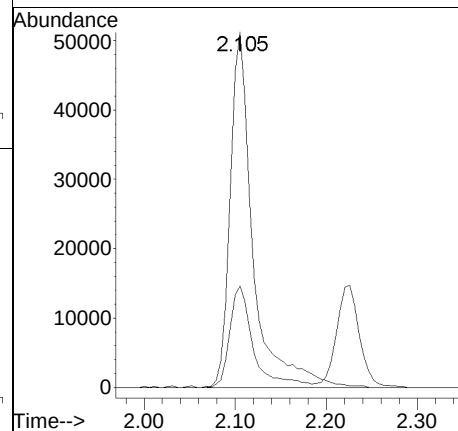
Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.0	71.0	111.0

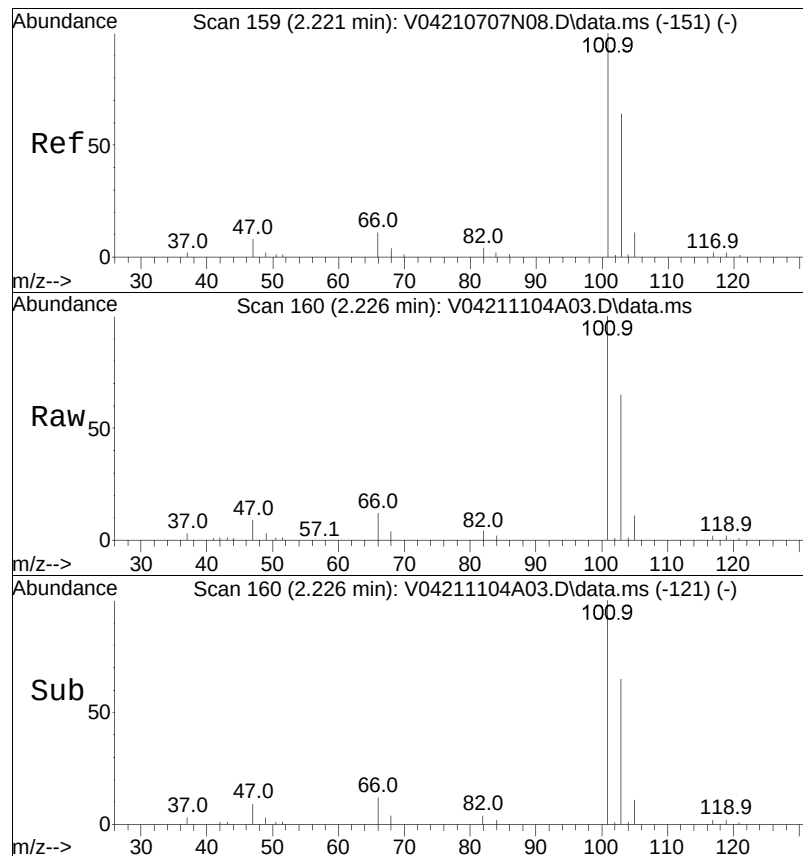




#6
 Chloroethane
 Concen: 50.76 ug/L
 RT: 2.105 min Scan# 137
 Delta R.T. 0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

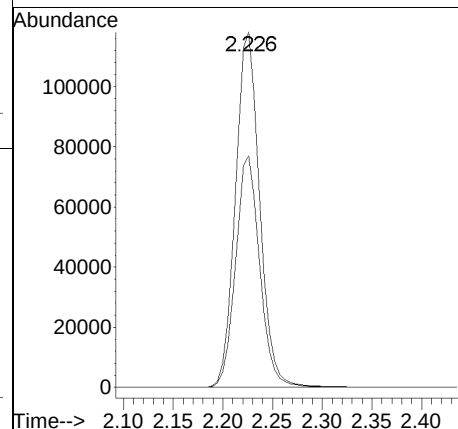
Tgt Ion	Ratio	Lower	Upper
64	100		
66	29.5	13.7	53.7

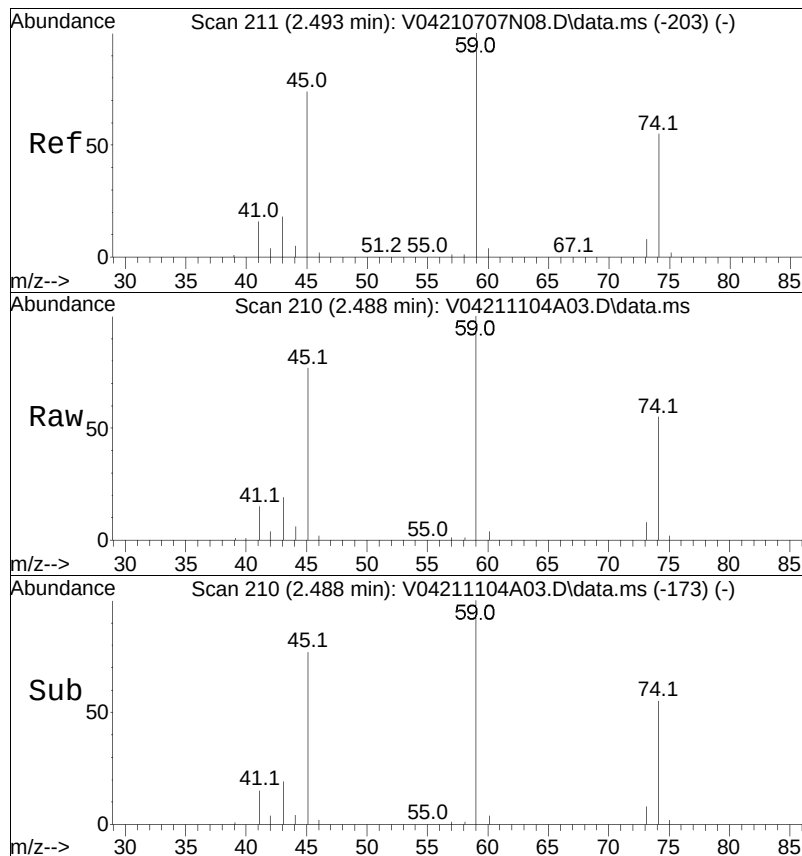




#7
 Trichlorofluoromethane
 Concen: 36.02 ug/L
 RT: 2.226 min Scan# 160
 Delta R.T. 0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

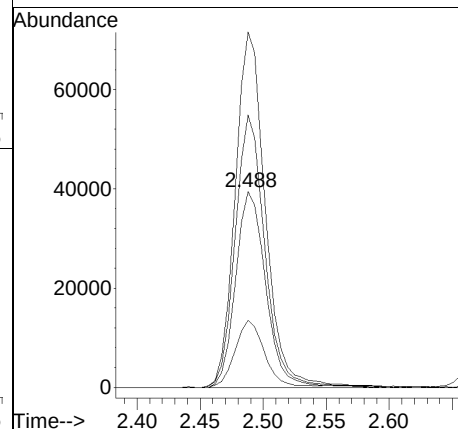
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	65.0	51.7	77.5

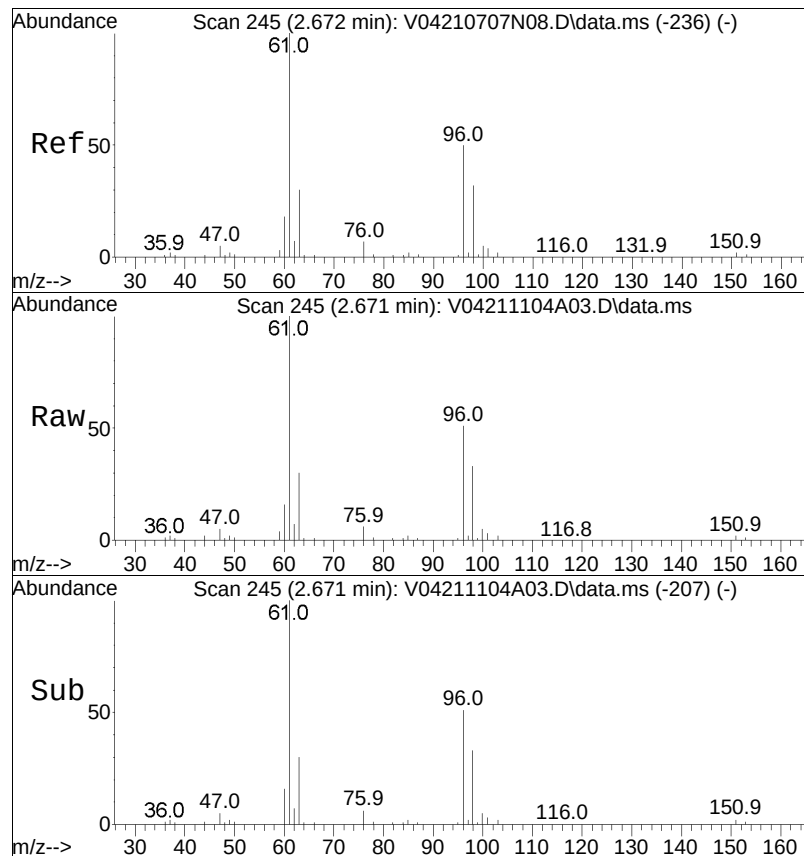




#8
 Ethyl ether
 Concen: 34.14 ug/L
 RT: 2.488 min Scan# 210
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

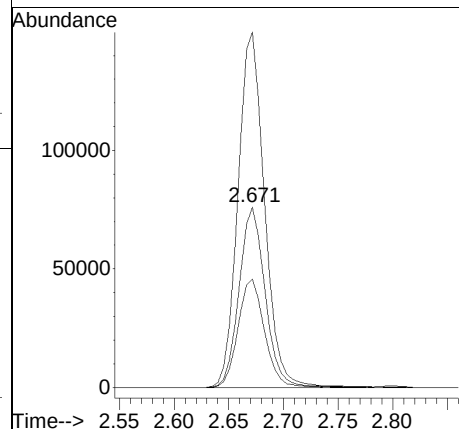
Tgt Ion	Ratio	Lower	Upper
74	100		
59	181.6	104.7	217.4
45	137.0	77.2	160.4
43	33.6	21.2	44.0

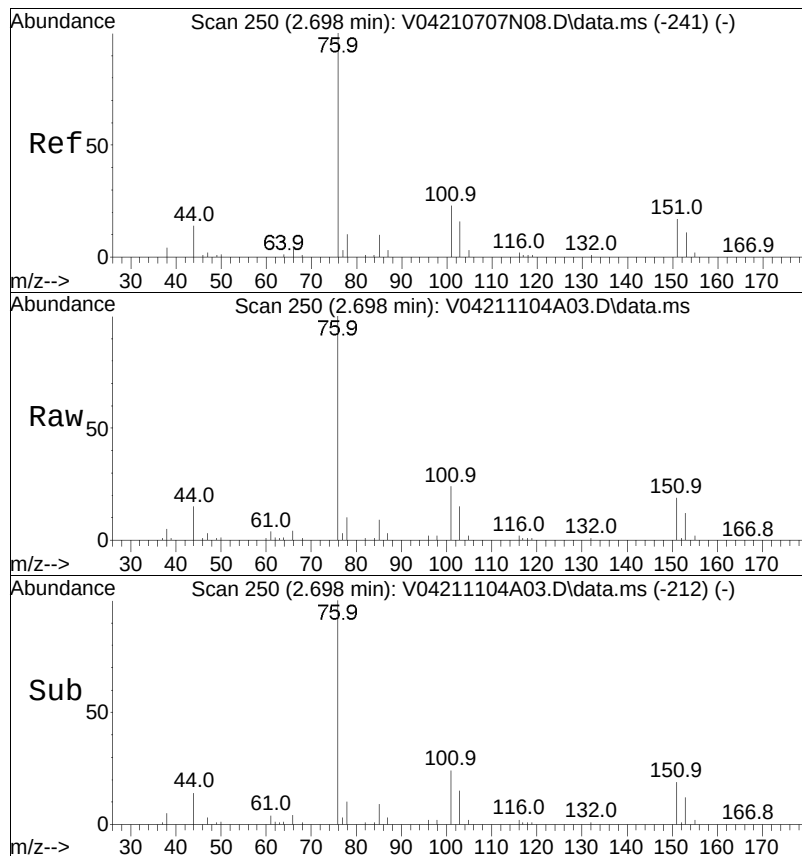




#10
 1,1-Dichloroethene
 Concen: 39.33 ug/L
 RT: 2.671 min Scan# 245
 Delta R.T. -0.001 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

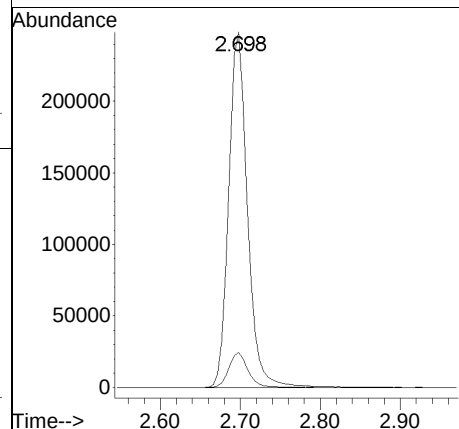
Tgt	Ion	Resp	Lower	Upper
96	100			
61	200.6	126435	145.8	218.6
63	60.9		46.6	69.8

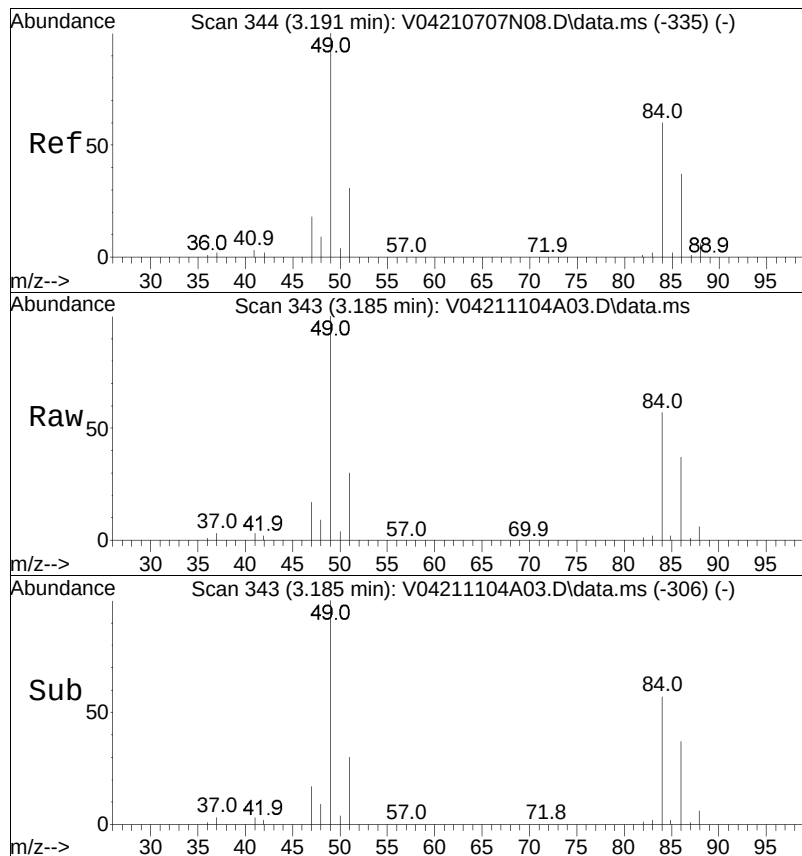




#11
 Carbon disulfide
 Concen: 33.95 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

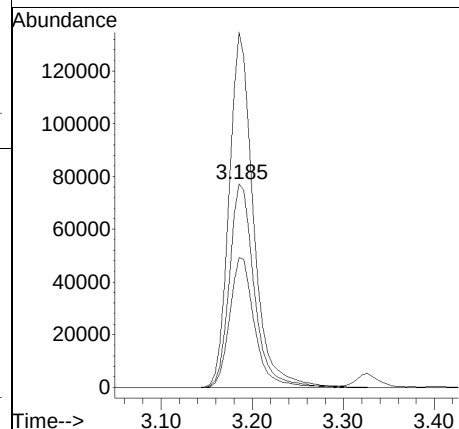
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.6	13.8

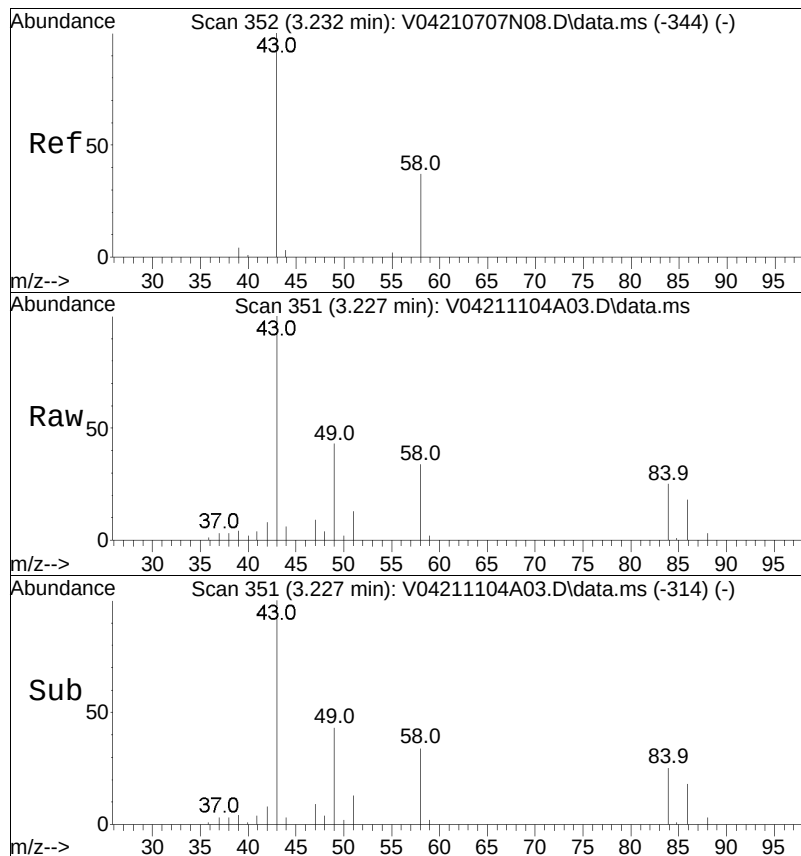




#15
 Methylene chloride
 Concen: 38.58 ug/L
 RT: 3.185 min Scan# 343
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

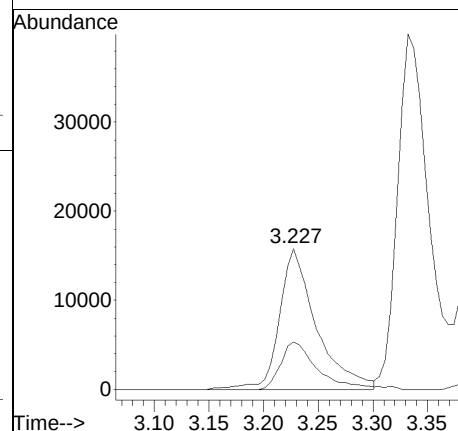
Tgt	Ion: 84	Resp:	146721
Ion	Ratio	Lower	Upper
84	100		
86	64.0	41.3	85.9
49	169.9	91.0	189.0

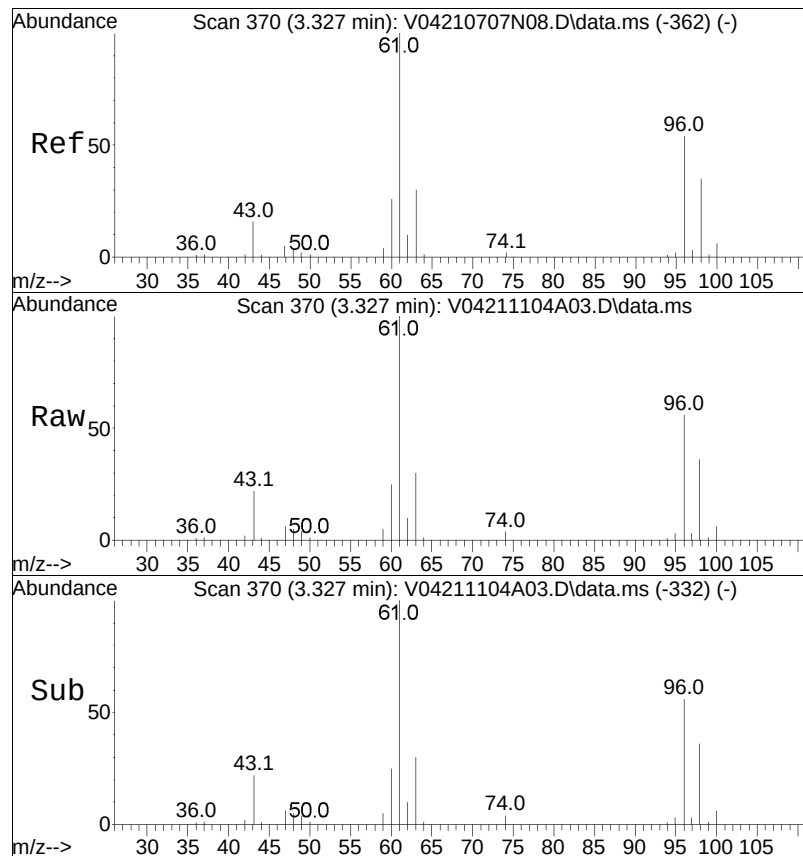




#17
 Acetone
 Concen: 48.43 ug/L
 RT: 3.227 min Scan# 351
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

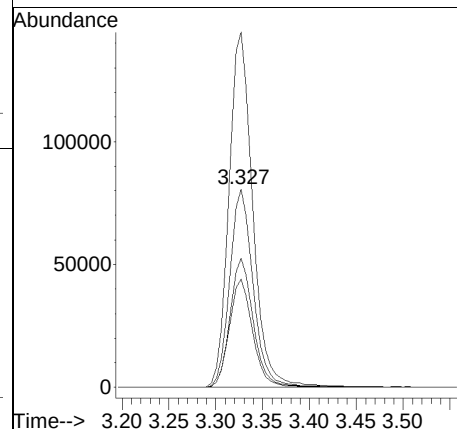
Tgt Ion: 43 Resp: 37319
 Ion Ratio Lower Upper
 43 100
 58 33.8 23.2 34.8

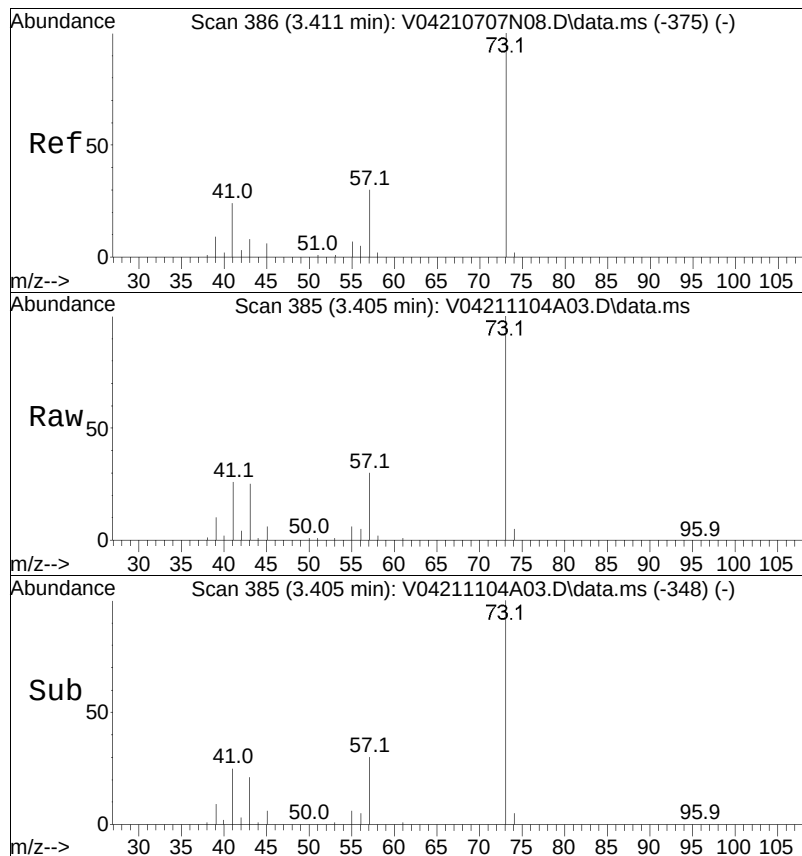




#18
 trans-1,2-Dichloroethene
 Concen: 38.87 ug/L
 RT: 3.327 min Scan# 370
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion: 96	Resp: 141354
Ion Ratio	Lower Upper
96 100	
61 181.2	103.7 215.3
98 64.6	41.0 85.0
63 54.5	32.1 66.7





#20

Methyl tert-butyl ether

Concen: 33.78 ug/L

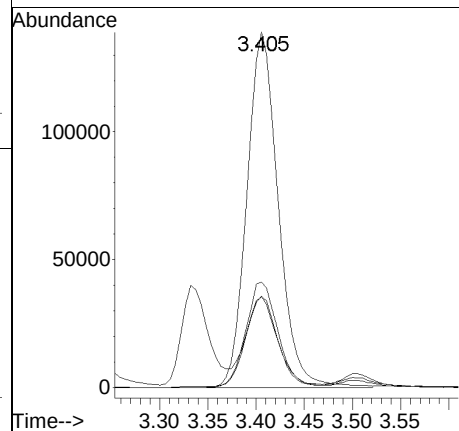
RT: 3.405 min Scan# 385

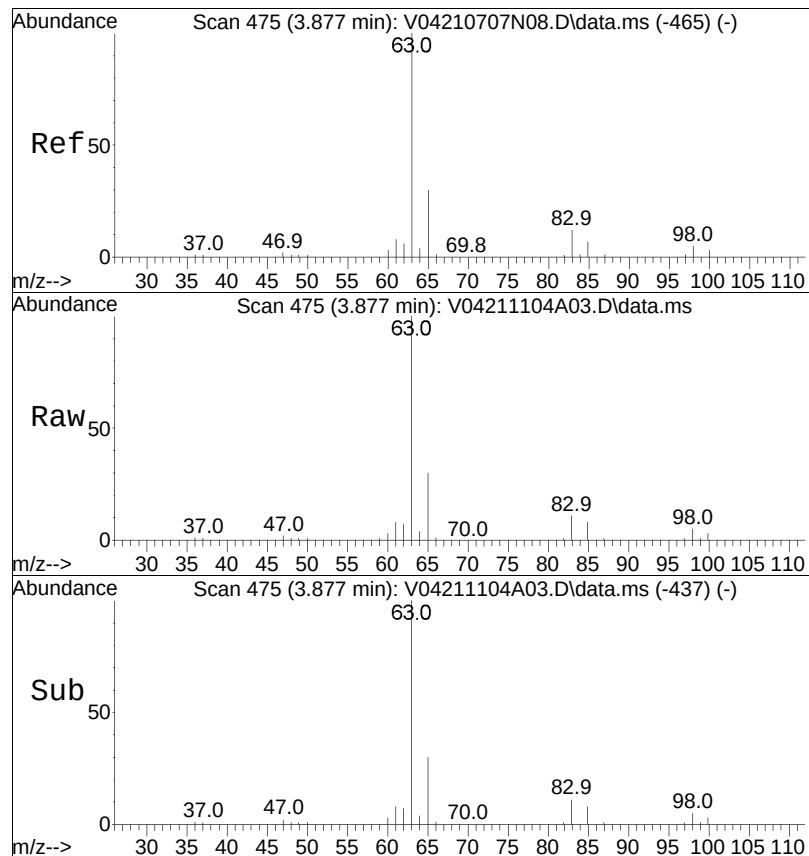
Delta R.T. -0.006 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am

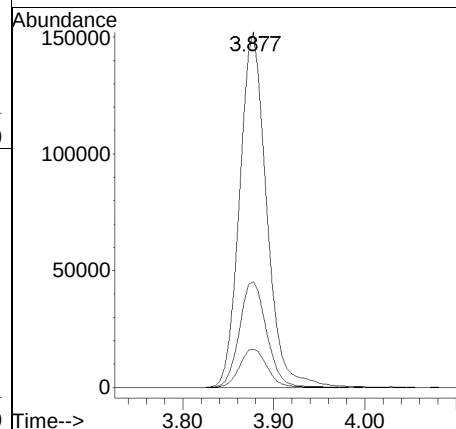
Tgt Ion:	73	Resp:	314585
Ion	Ratio	Lower	Upper
73	100		
57	30.4	16.3	33.9
43	25.2	14.7	30.5
41	25.2	15.4	32.0

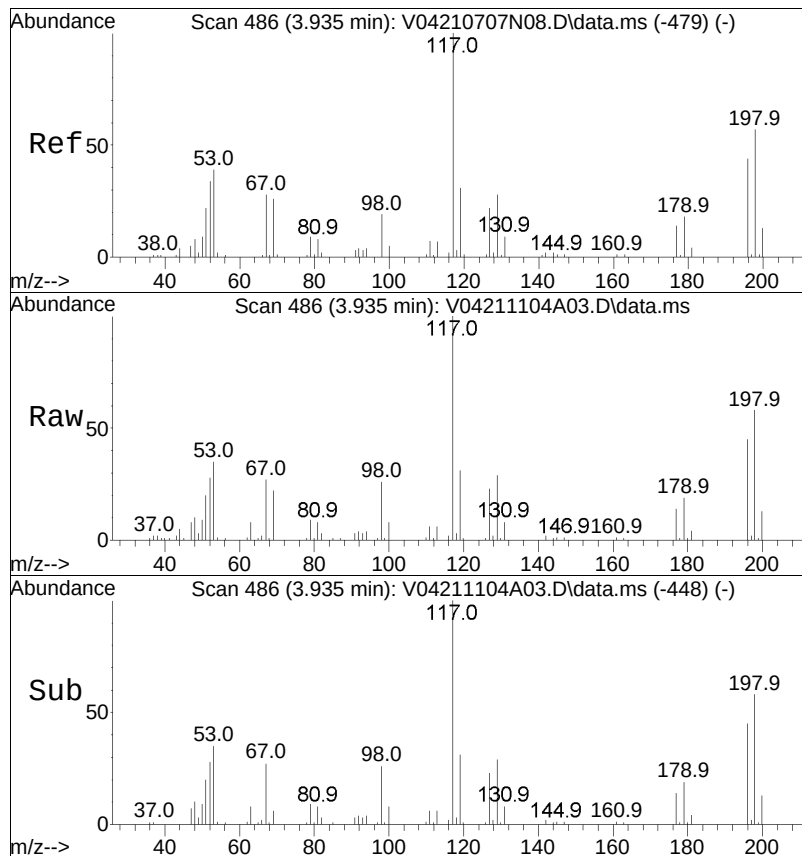




#23
 1,1-Dichloroethane
 Concen: 38.39 ug/L
 RT: 3.877 min Scan# 475
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

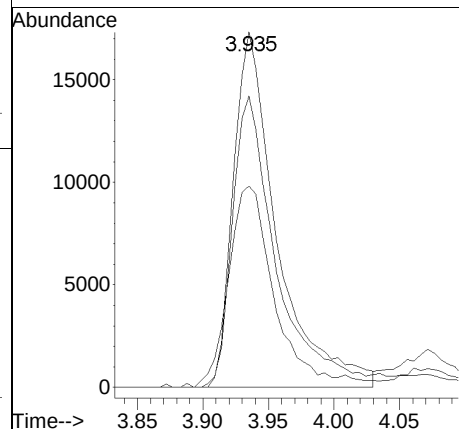
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.0	10.4	50.4
83	11.0	0.0	32.2

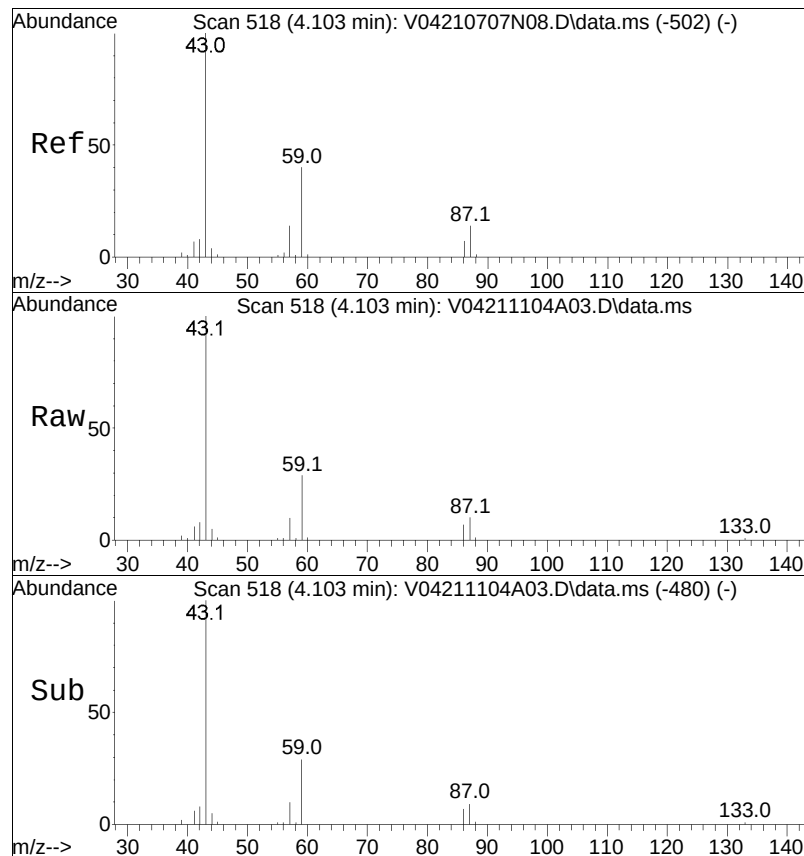




#25
 Acrylonitrile
 Concen: 32.84 ug/L
 RT: 3.935 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

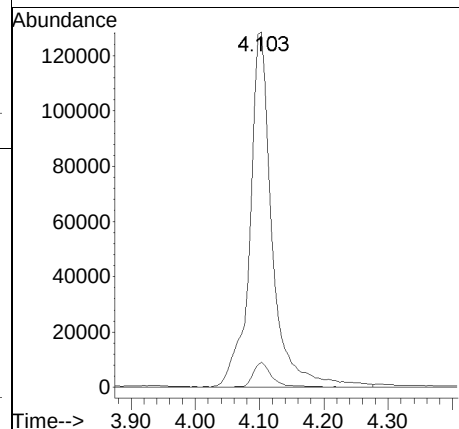
Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.9	98.9
51	60.3	46.2	69.4

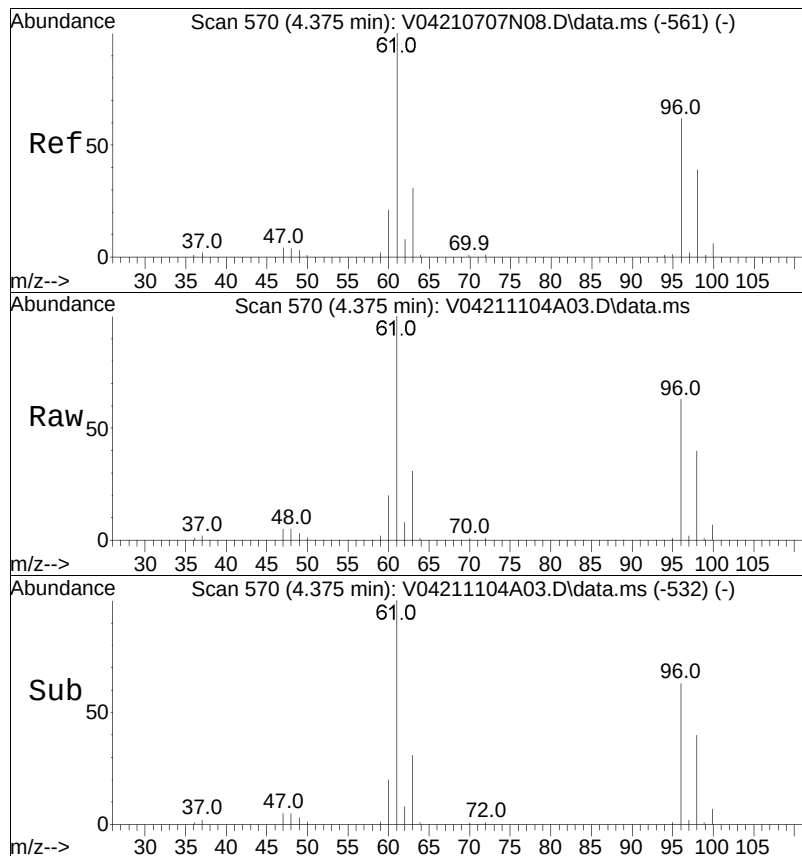




#27
 Vinyl acetate
 Concen: 38.33 ug/L
 RT: 4.103 min Scan# 518
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

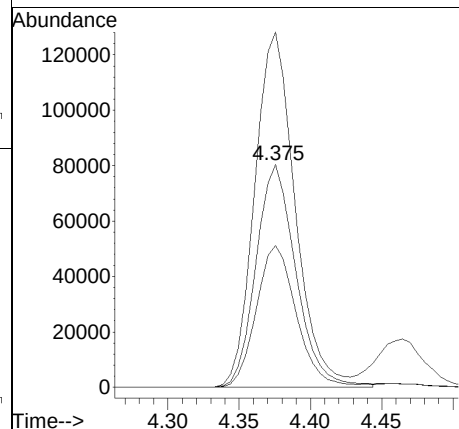
Tgt Ion	Ratio	Lower	Upper
43	100		
86	6.2	5.4	8.2

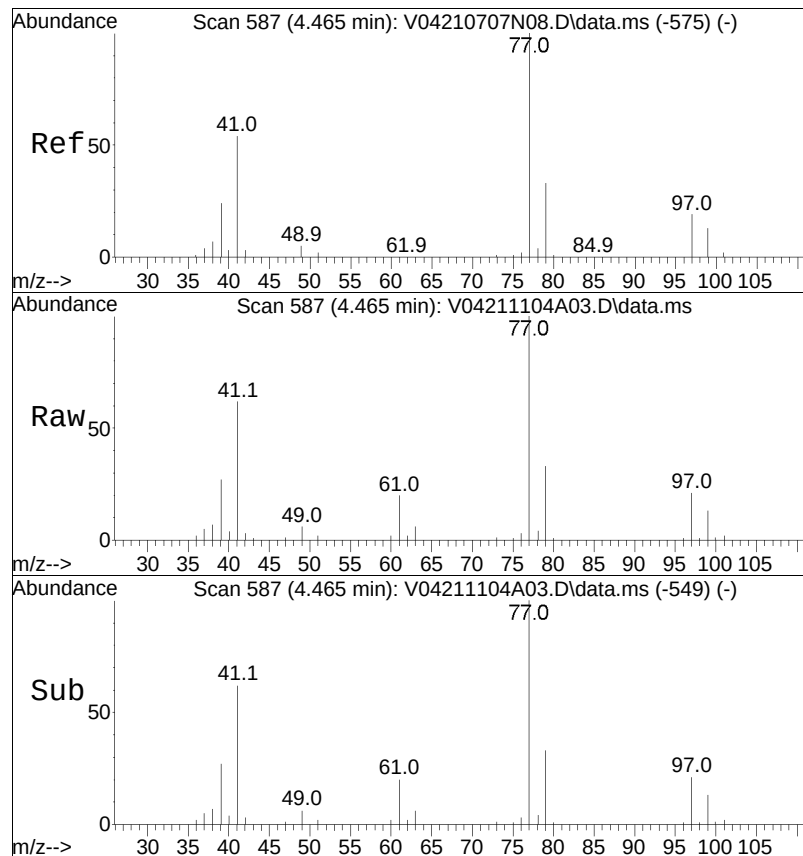




#28
 cis-1,2-Dichloroethene
 Concen: 38.60 ug/L
 RT: 4.375 min Scan# 570
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

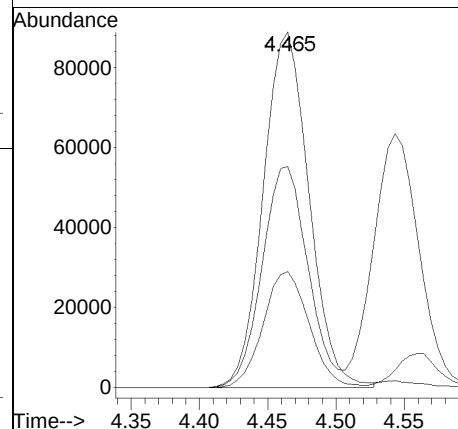
Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.5	114.4	171.6
98	63.7	51.3	76.9

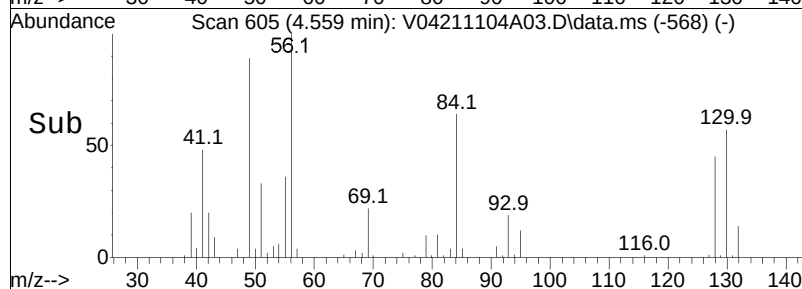
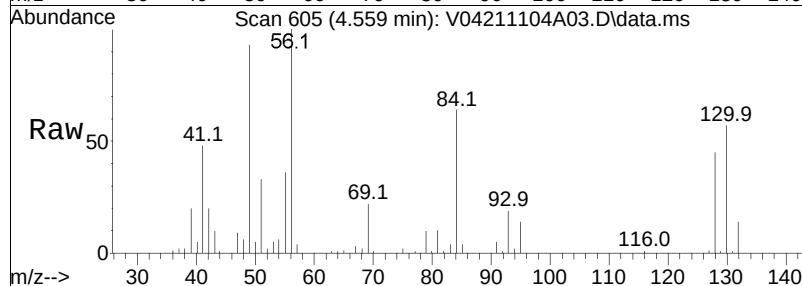
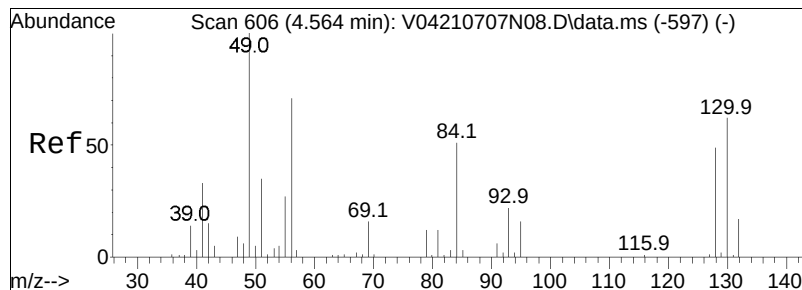




#29
 2,2-Dichloropropane
 Concen: 35.92 ug/L
 RT: 4.465 min Scan# 587
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion	Ratio	Lower	Upper
77	100		
41	62.7	36.7	76.3
79	32.8	21.1	43.9





#30

Bromochloromethane

Concen: 38.73 ug/L

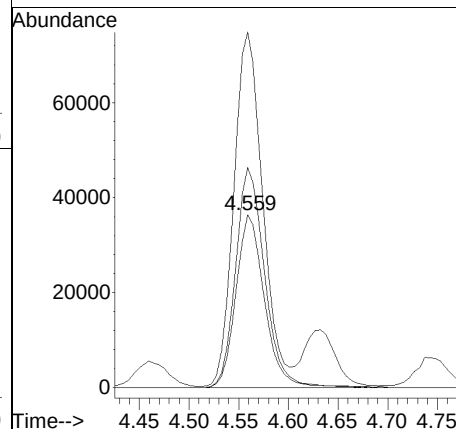
RT: 4.559 min Scan# 605

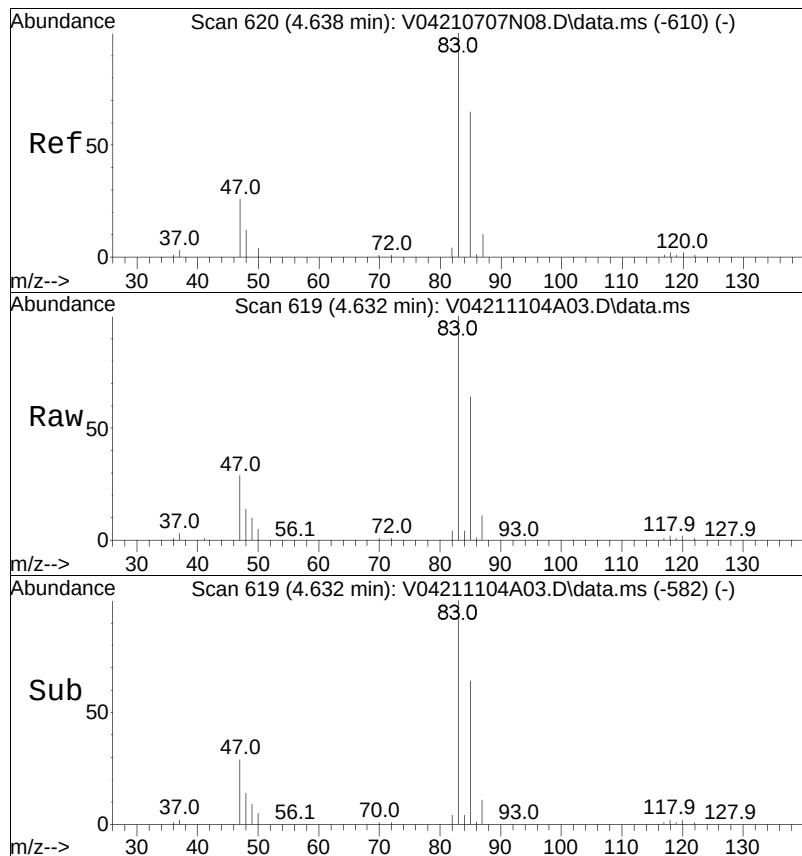
Delta R.T. -0.005 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am

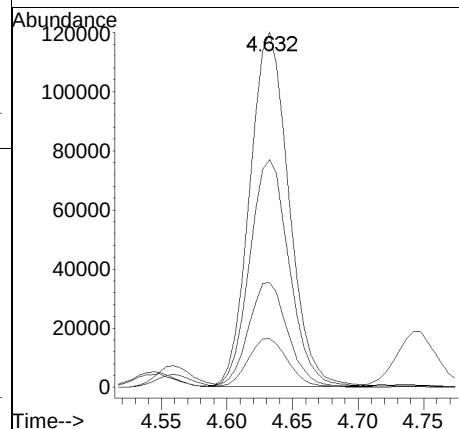
Tgt	Ion:128	Resp:	72712
Ion	Ratio	Lower	Upper
128	100		
49	205.8	136.8	205.2#
130	129.4	102.6	153.8

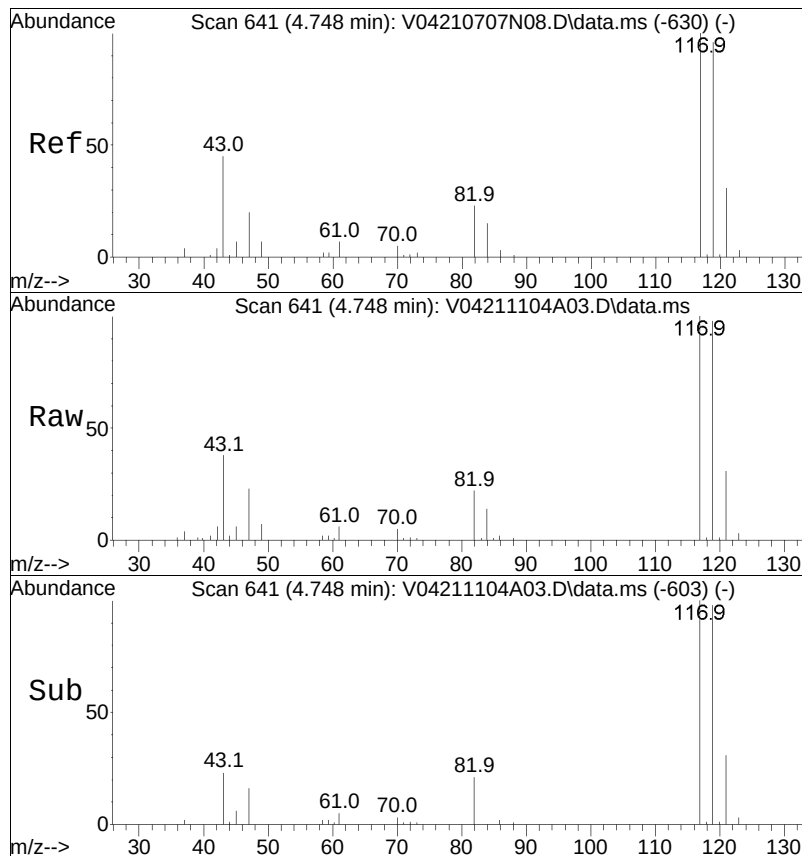




#32
 Chloroform
 Concen: 34.80 ug/L
 RT: 4.632 min Scan# 619
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

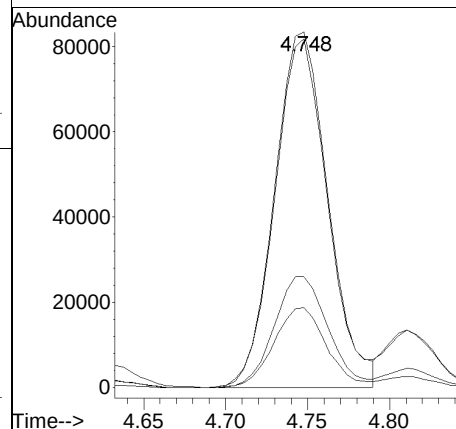
Tgt Ion:	83	Resp:	248528
Ion Ratio	Lower	Upper	
83	100		
85	65.1	41.9	87.1
47	29.1	16.7	34.7
48	14.1	7.9	16.3

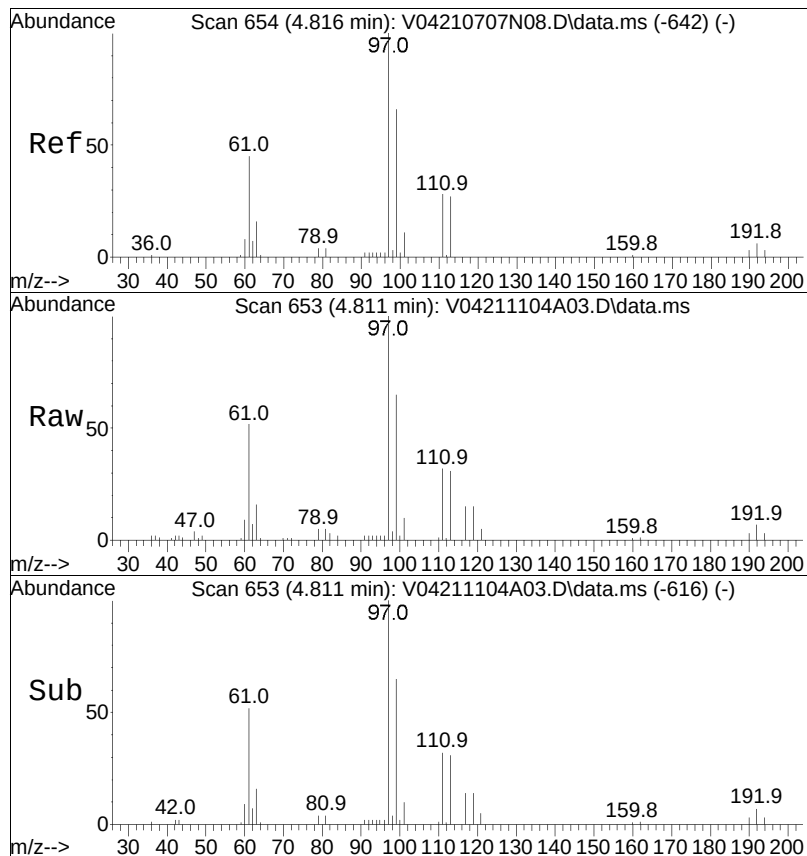




#34
Carbon tetrachloride
Concen: 35.55 ug/L
RT: 4.748 min Scan# 641
Delta R.T. -0.000 min
Lab File: V04211104A03.D
Acq: 4 Nov 2021 7:31 am

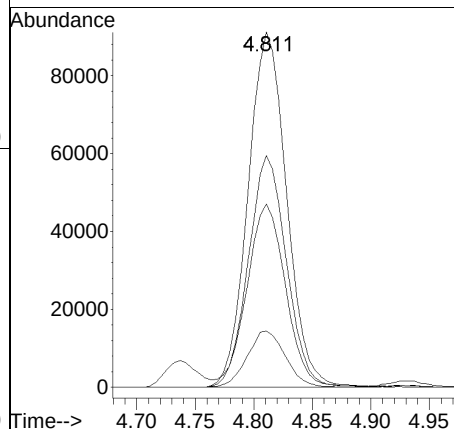
Tgt	Ion:117	Resp:	189486
Ion	Ratio	Lower	Upper
117	100		
119	96.6	62.9	130.7
121	31.4	20.2	42.0
82	22.2	14.9	30.9

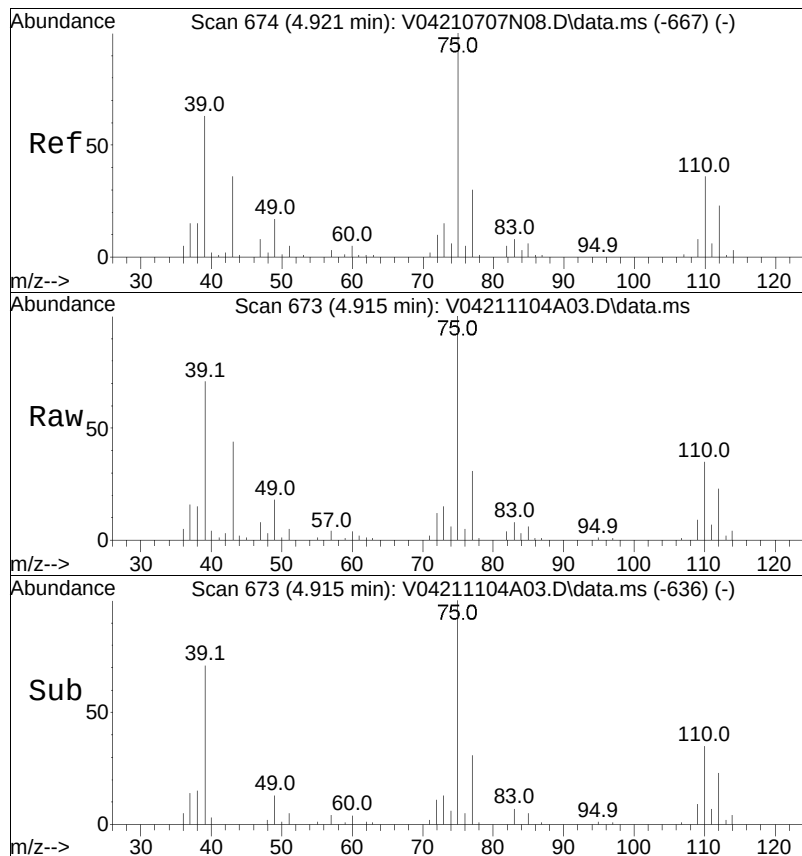




#37
 1,1,1-Trichloroethane
 Concen: 37.00 ug/L
 RT: 4.811 min Scan# 653
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

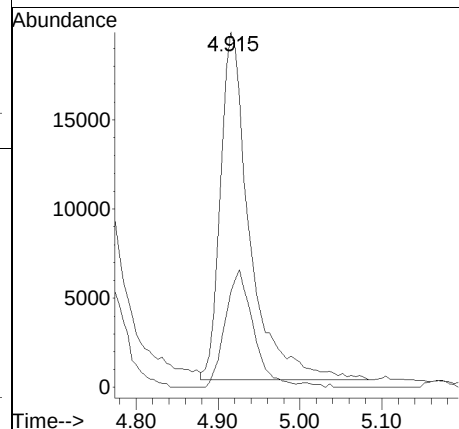
Tgt Ion: 97	Resp: 209484
Ion Ratio	Lower Upper
97 100	
99 64.5	41.7 86.7
61 52.1	30.9 64.3
63 15.8	9.6 20.0

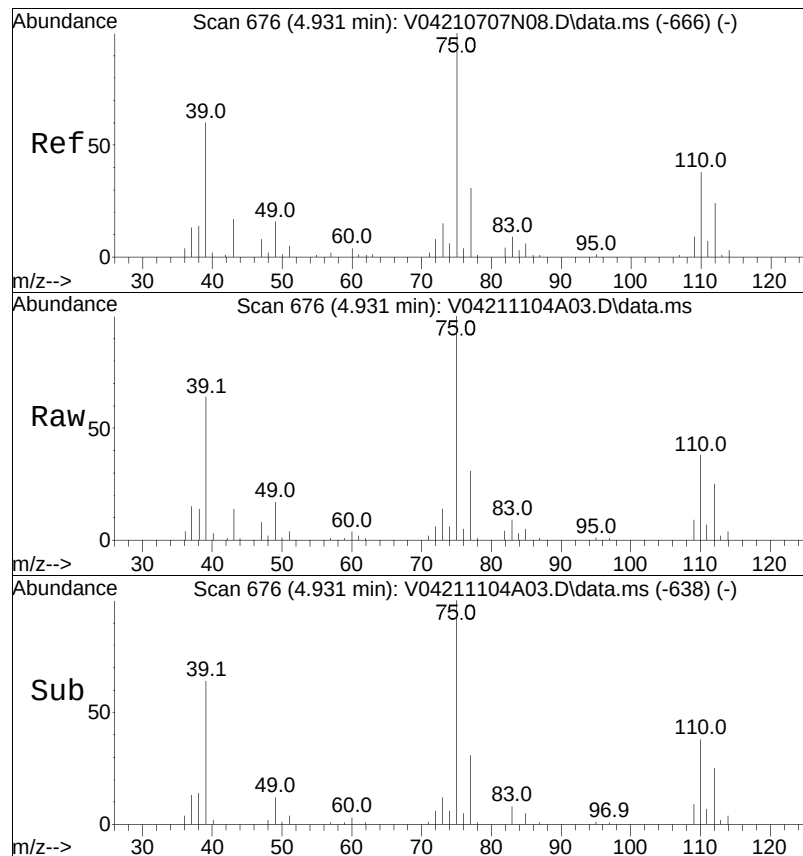




#39
 2-Butanone
 Concen: 33.58 ug/L
 RT: 4.915 min Scan# 673
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

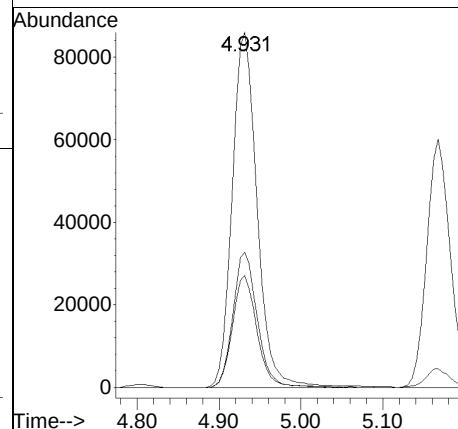
Tgt	Ion	Resp	Lower	Upper
43	100			
72	32.3	25.8	38.8	

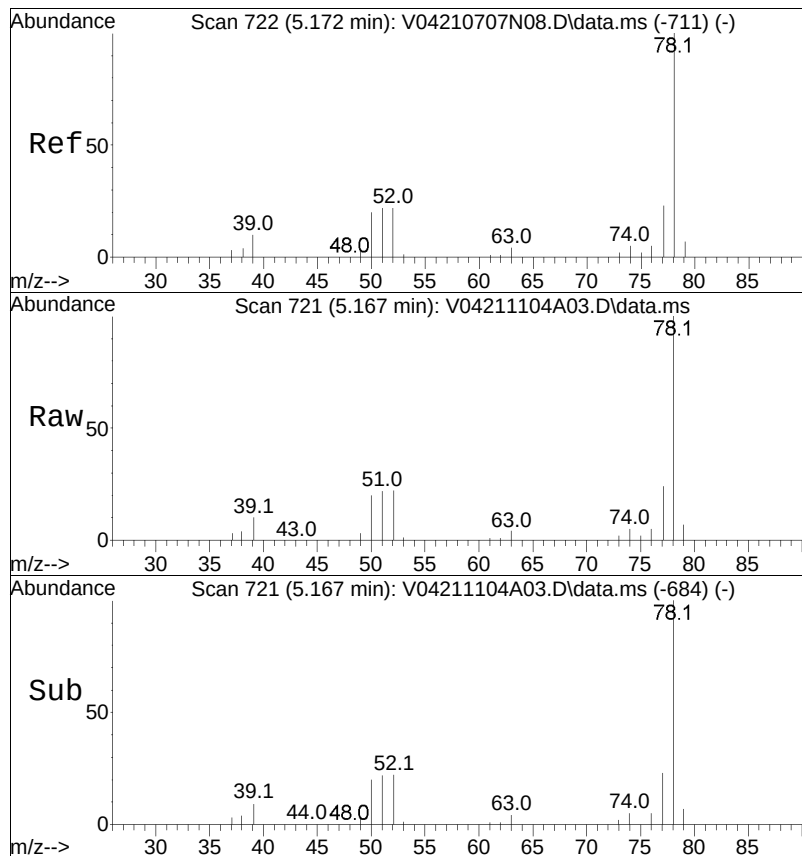




#40
 1,1-Dichloropropene
 Concen: 39.42 ug/L
 RT: 4.931 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

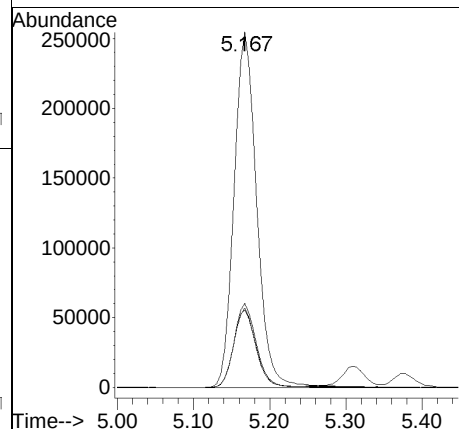
Tgt	Ion	Ratio	Lower	Upper
75	100			
110	37.1	24.4	50.6	
77	31.1	20.0	41.6	

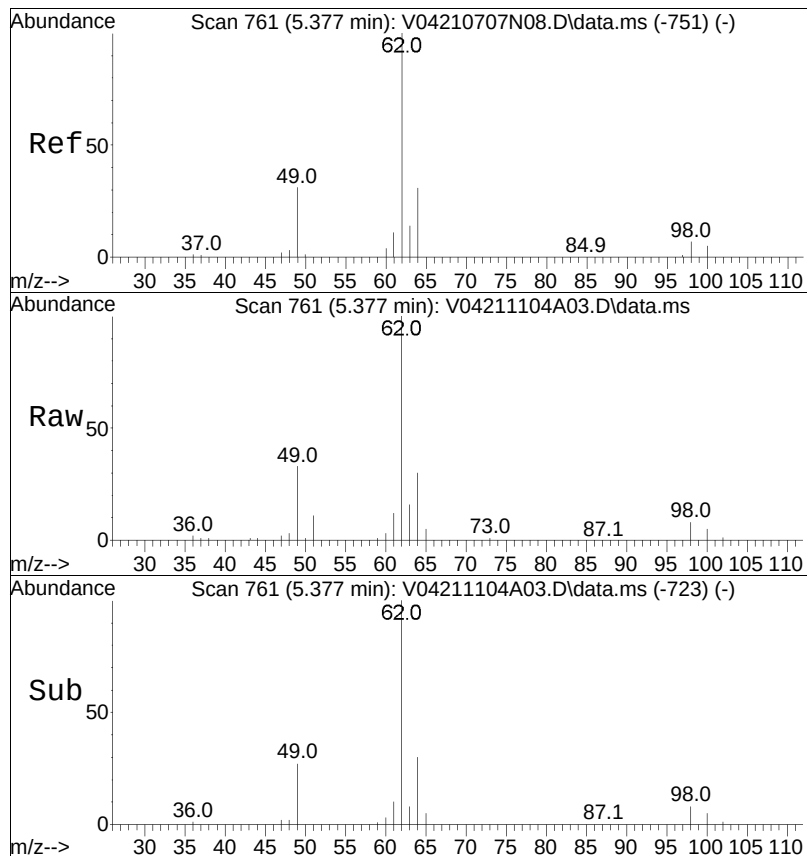




#41
Benzene
Concen: 38.95 ug/L
RT: 5.167 min Scan# 721
Delta R.T. -0.005 min
Lab File: V04211104A03.D
Acq: 4 Nov 2021 7:31 am

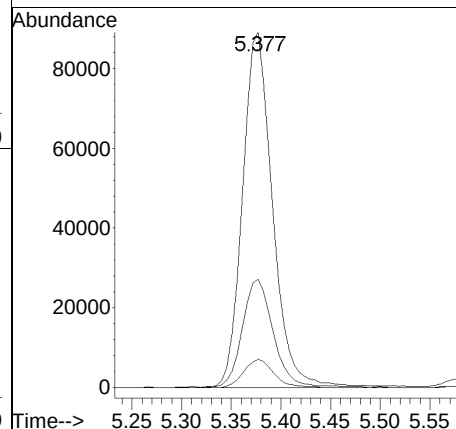
Tgt Ion:	78	Resp:	527240
Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.1	31.3
51	21.5	12.2	25.4
52	21.8	11.9	24.7

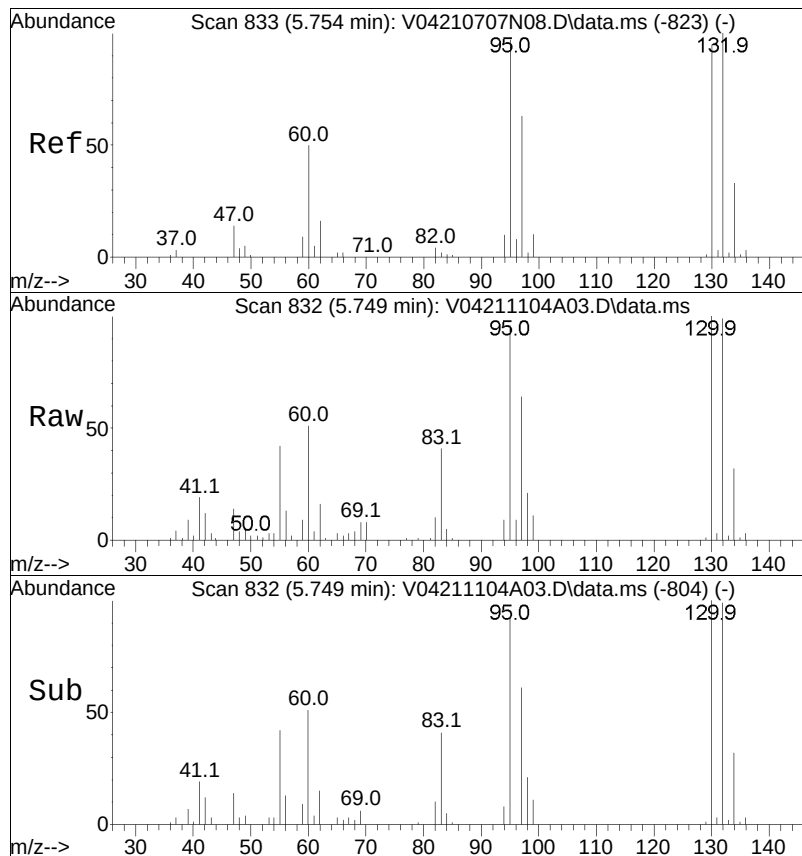




#44
 1,2-Dichloroethane
 Concen: 35.26 ug/L
 RT: 5.377 min Scan# 761
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

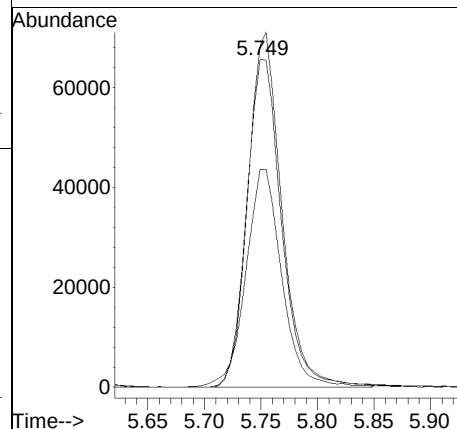
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.4	11.3	51.3
98	7.8	0.0	27.5

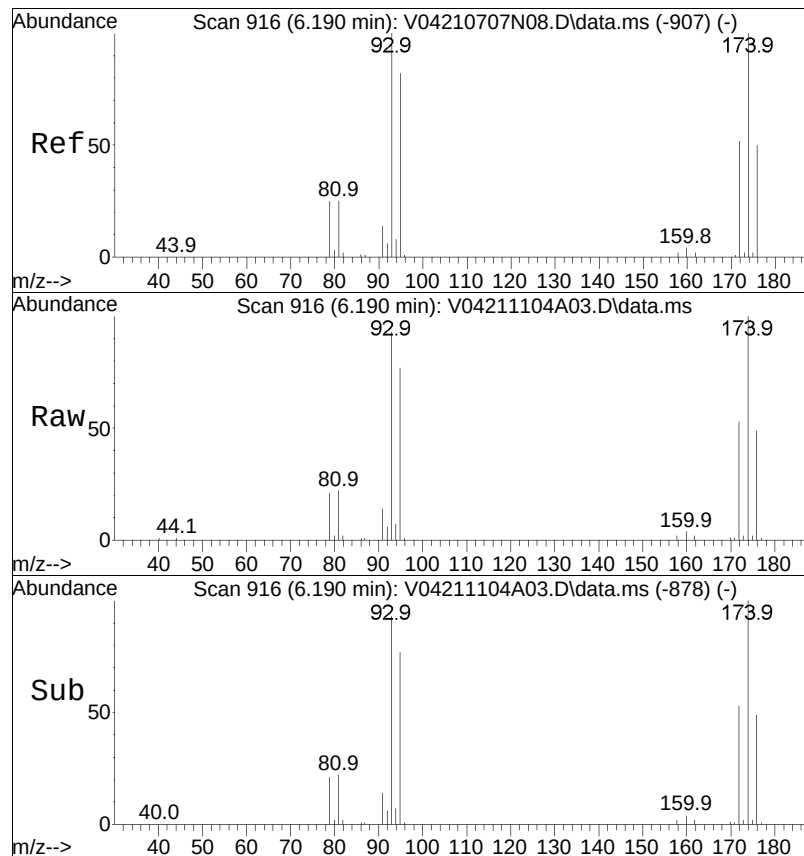




#48
 Trichloroethene
 Concen: 37.96 ug/L
 RT: 5.749 min Scan# 832
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

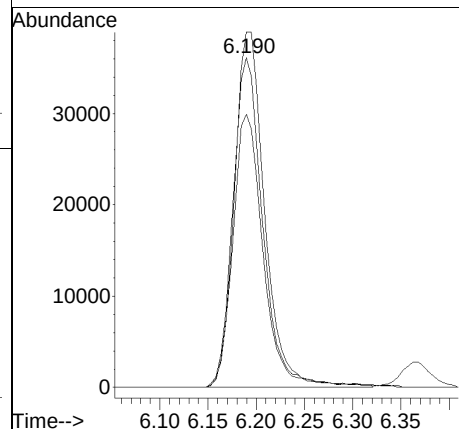
Tgt Ion:	95	Resp:	141441
Ion Ratio	Lower	Upper	
95	100		
97	68.8	53.9	80.9
130	105.5	83.1	124.7

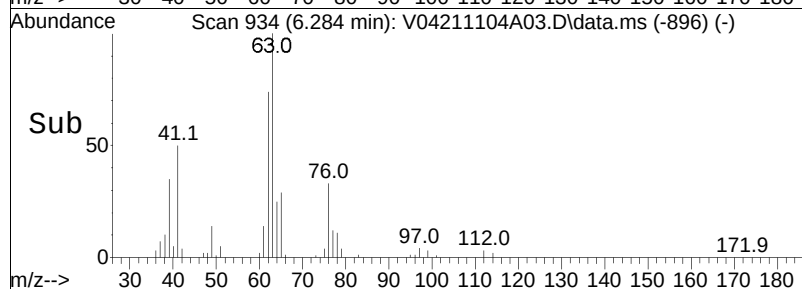
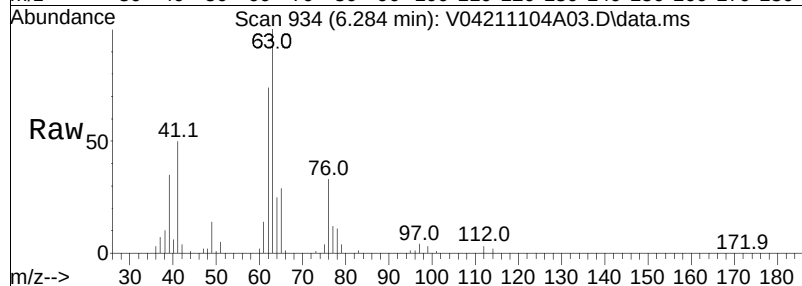
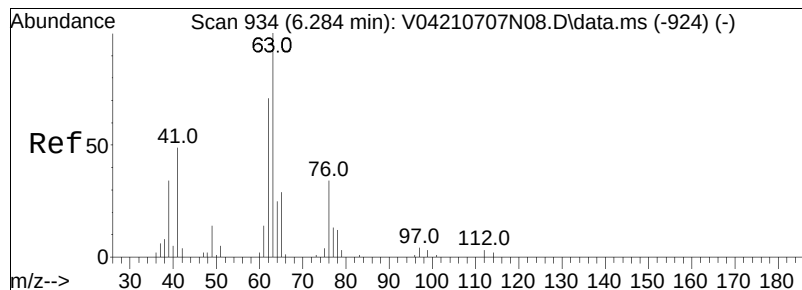




#50
 Dibromomethane
 Concen: 36.02 ug/L
 RT: 6.190 min Scan# 916
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.5	66.3	99.5
174	109.0	87.4	131.0





#51

1,2-Dichloropropane

Concen: 37.68 ug/L

RT: 6.284 min Scan# 934

Delta R.T. -0.000 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am

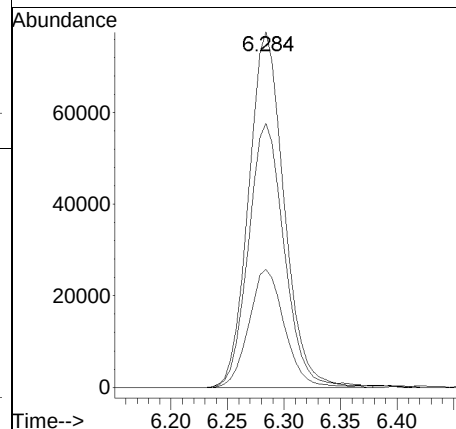
Tgt Ion: 63 Resp: 169663

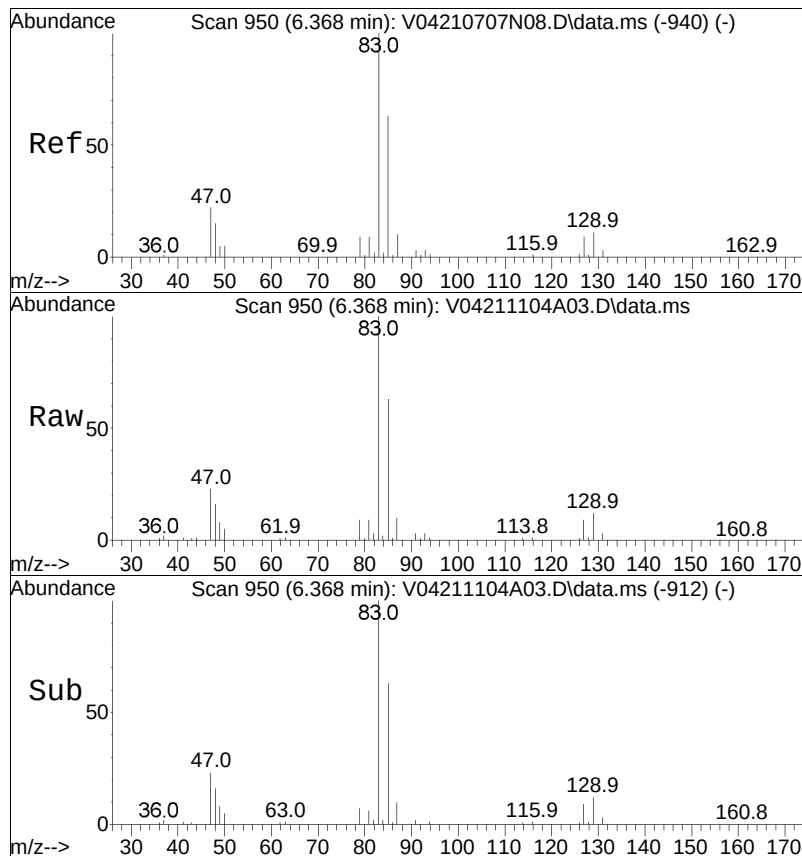
Ion Ratio Lower Upper

63 100

62 75.3 58.2 87.2

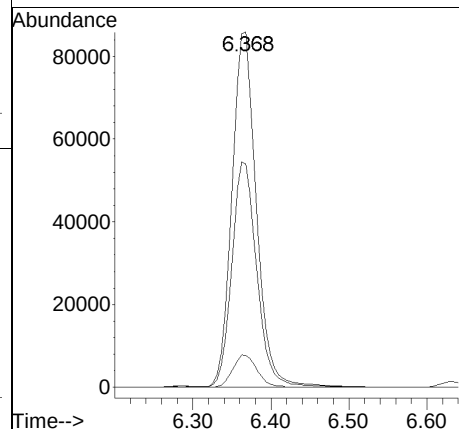
76 33.3 31.4 47.2

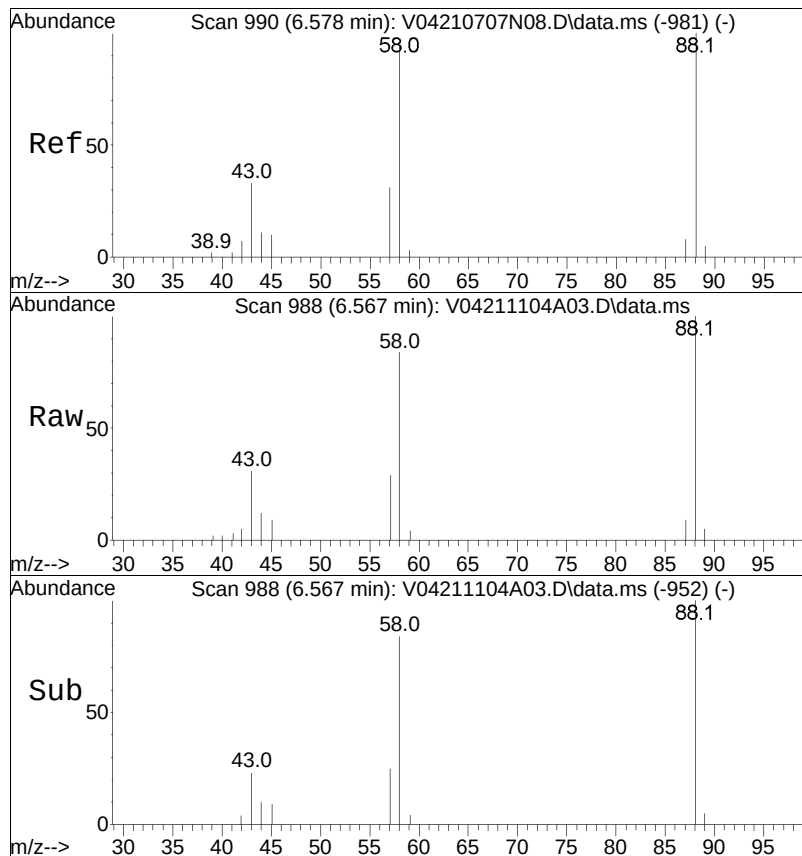




#54
 Bromodichloromethane
 Concen: 36.56 ug/L
 RT: 6.368 min Scan# 950
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

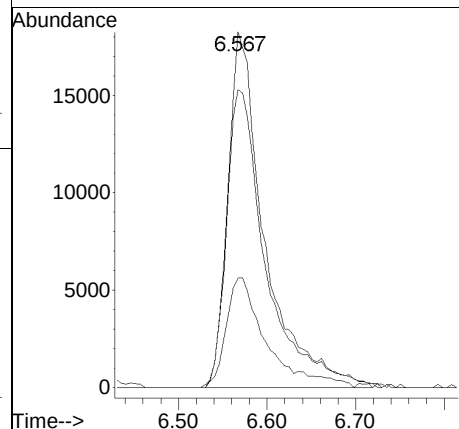
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.2	76.8
127	9.1	7.3	10.9

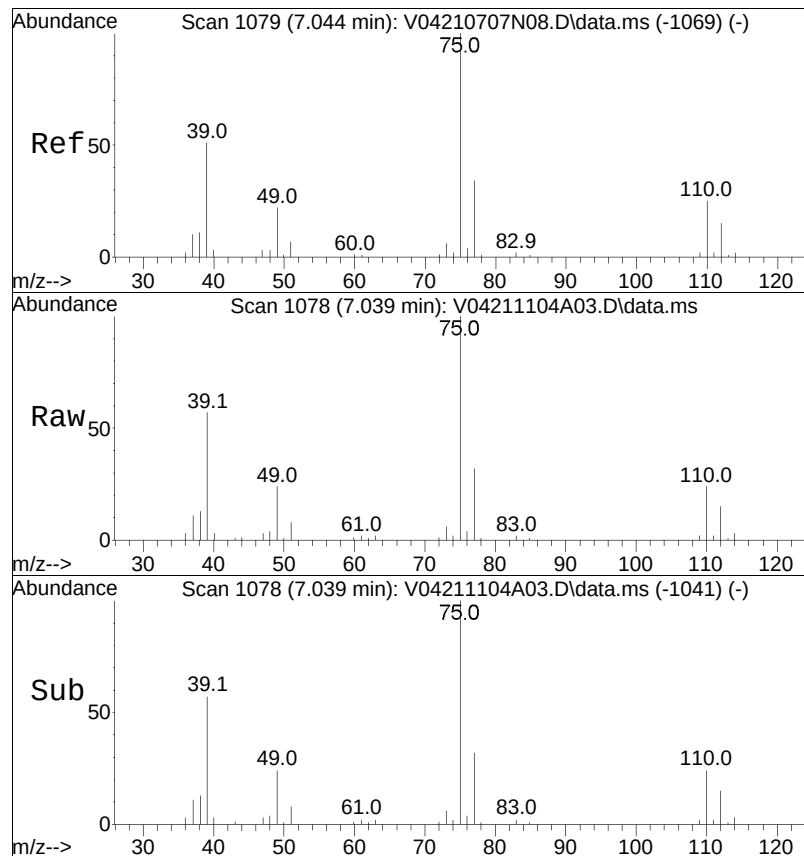




#57
 1,4-Dioxane
 Concen: 1792.07 ug/L
 RT: 6.567 min Scan# 988
 Delta R.T. -0.011 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

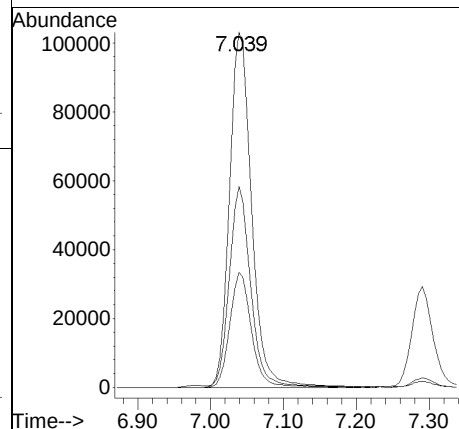
Tgt	Ion: 88	Resp:	52791
Ion	Ratio	Lower	Upper
88	100		
58	89.4	57.1	85.7#
43	33.6	22.9	34.3

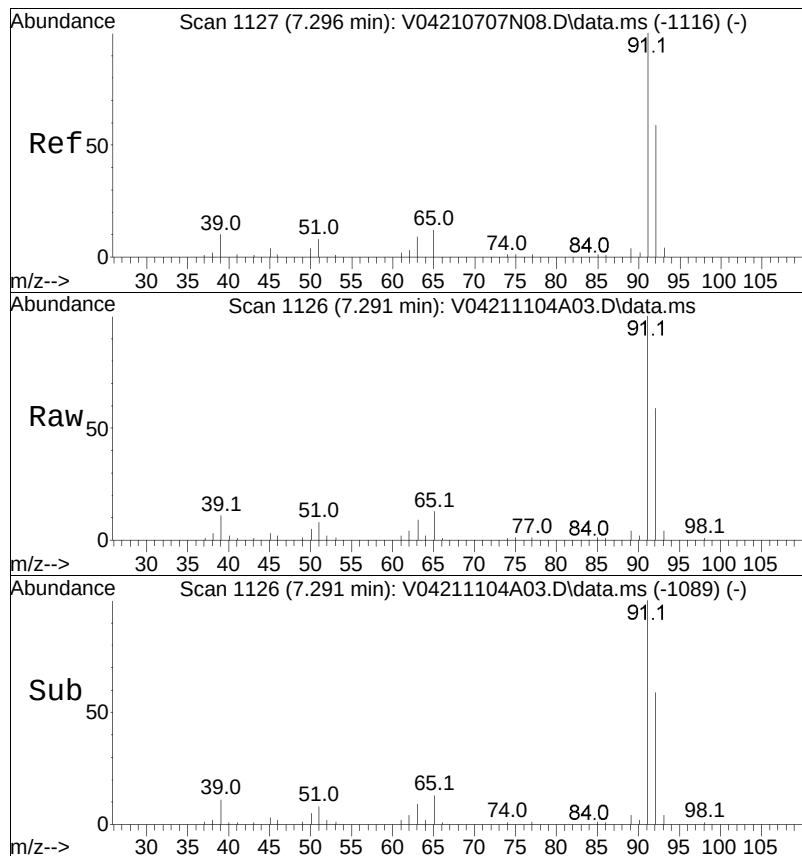




#58
 cis-1,3-Dichloropropene
 Concen: 39.44 ug/L
 RT: 7.039 min Scan# 1078
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

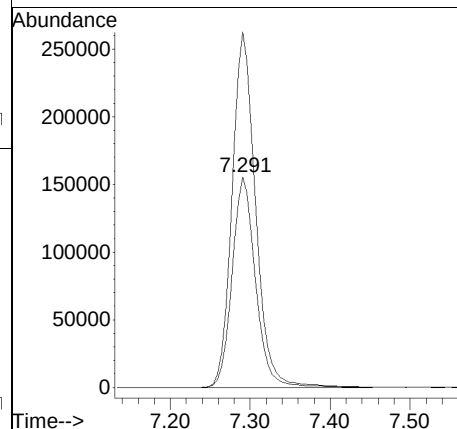
Tgt Ion:	75	Resp:	218129
Ion Ratio	Lower	Upper	
75	100		
77	31.7	25.3	37.9
39	53.7	40.2	60.2

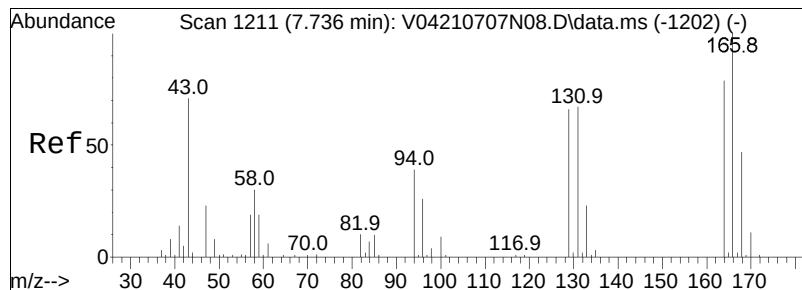




#61
 Toluene
 Concen: 39.53 ug/L
 RT: 7.291 min Scan# 1126
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.5	135.8	203.6





#62

4-Methyl-2-pentanone

Concen: 36.91 ug/L

RT: 7.736 min Scan# 1211

Delta R.T. 0.000 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am

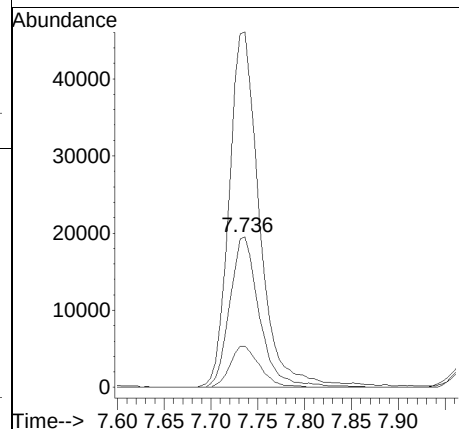
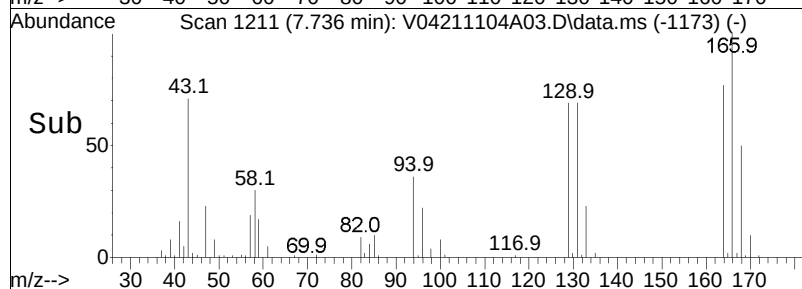
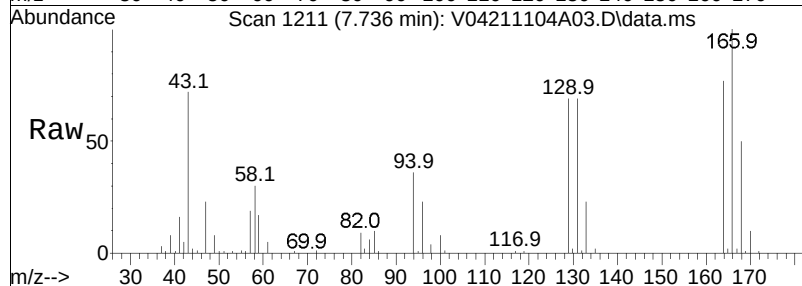
Tgt Ion: 58 Resp: 43360

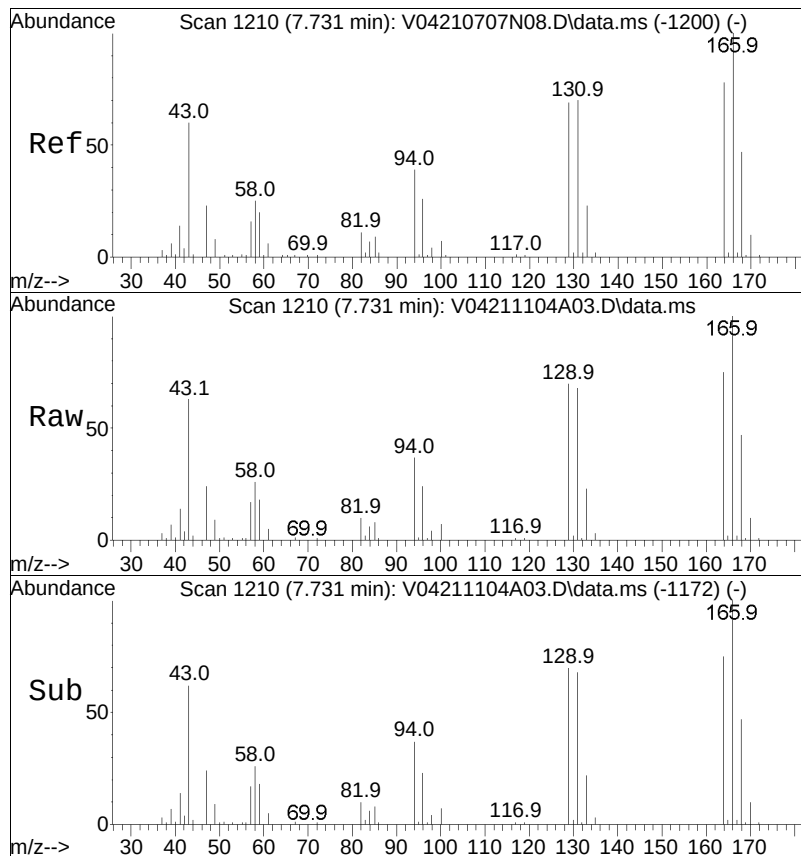
Ion Ratio Lower Upper

58 100

100 27.3 25.6 38.4

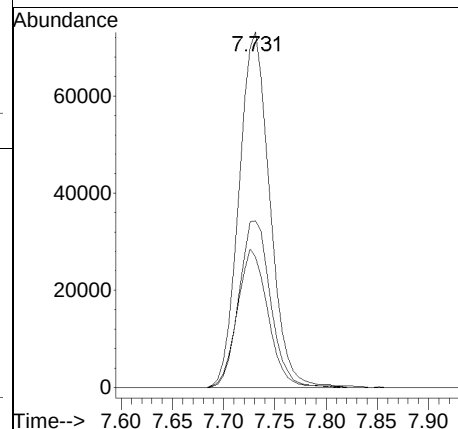
43 241.8 195.7 293.5

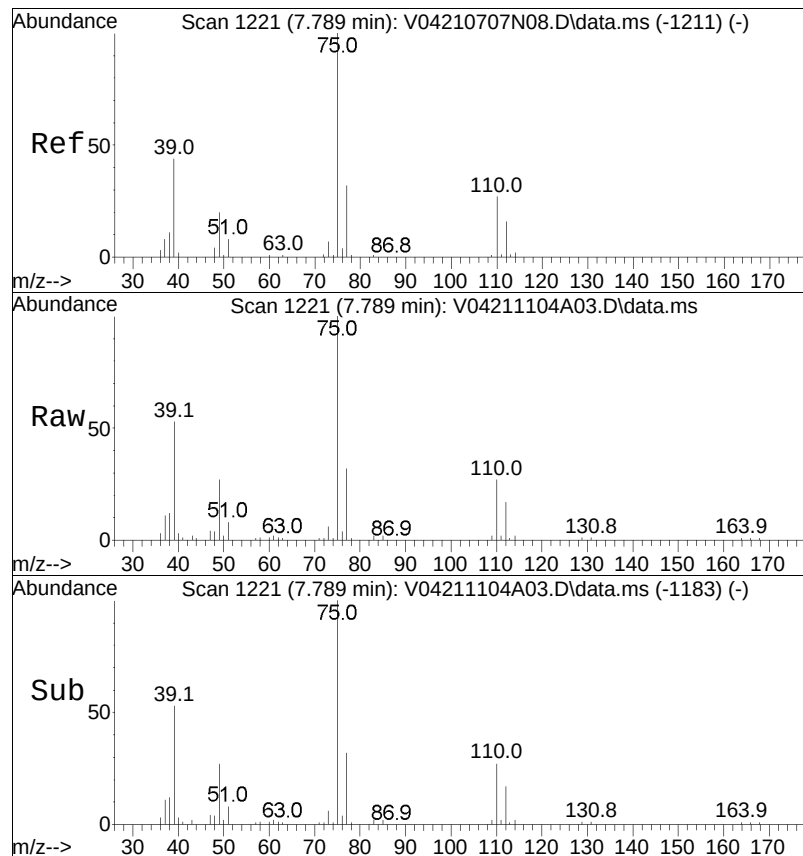




#63
 Tetrachloroethene
 Concen: 40.97 ug/L
 RT: 7.731 min Scan# 1210
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

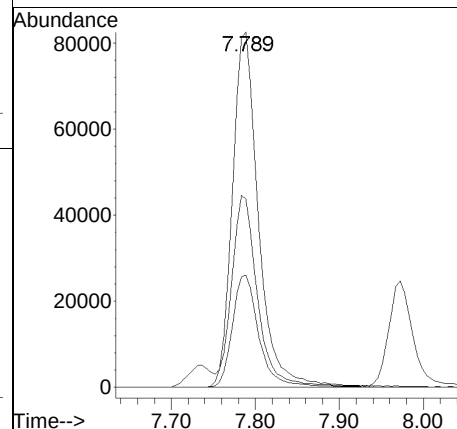
Tgt Ion	Ratio	Lower	Upper
166	100		
168	48.0	27.6	67.6
94	38.8	20.9	60.9

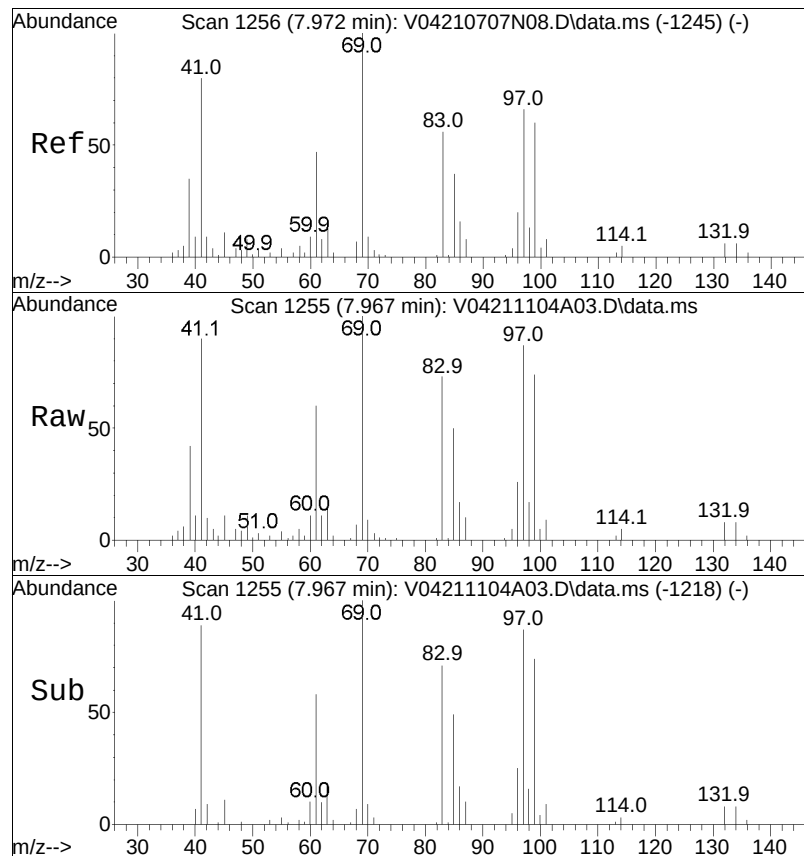




#65
 trans-1,3-Dichloropropene
 Concen: 39.67 ug/L
 RT: 7.789 min Scan# 1221
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

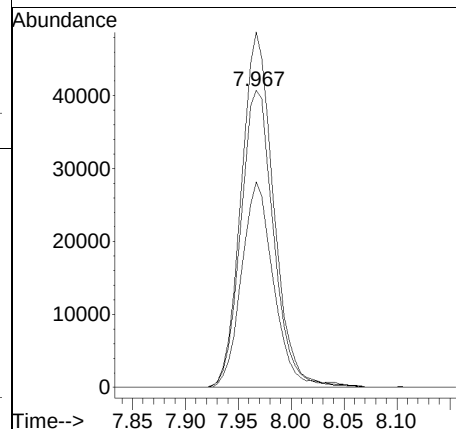
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	12.0	52.0
39	53.0	29.3	69.3

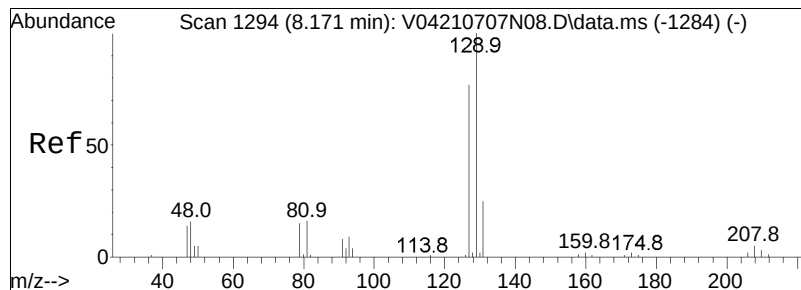




#68
 1,1,2-Trichloroethane
 Concen: 39.48 ug/L
 RT: 7.967 min Scan# 1255
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

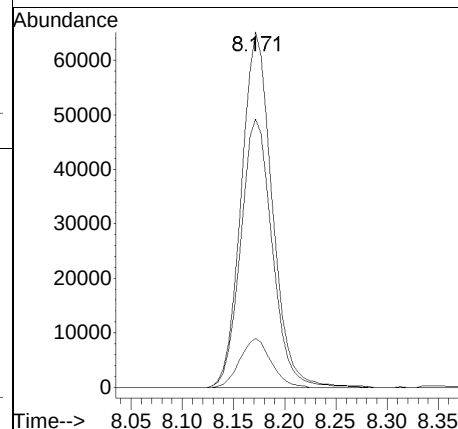
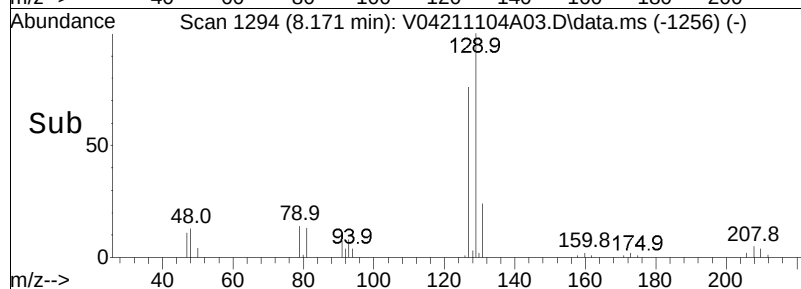
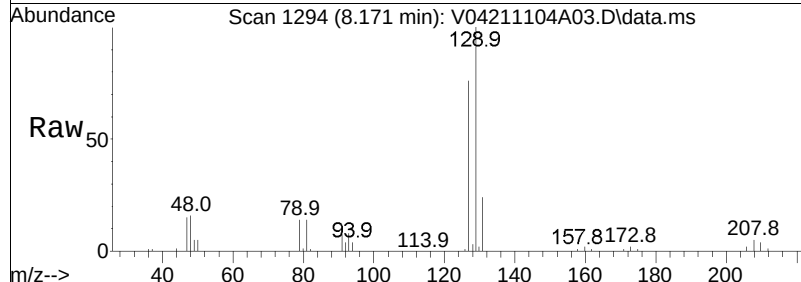
Tgt	Ion	Ratio	Lower	Upper
83	100			
97	117.9	99.3	139.3	
85	68.2	47.8	87.8	

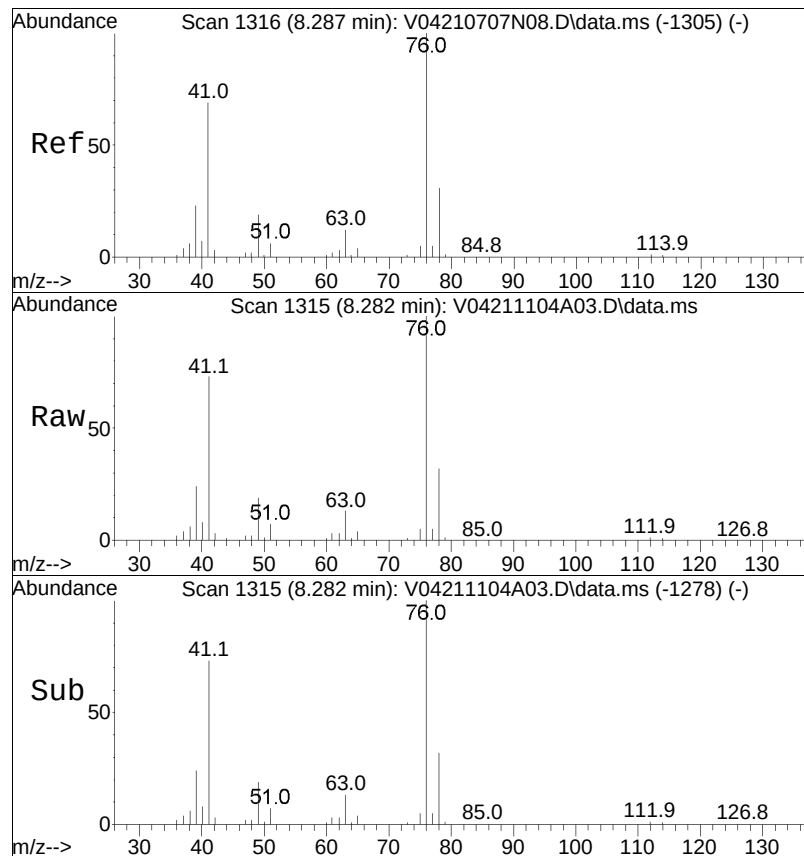




#69
 Chlorodibromomethane
 Concen: 41.20 ug/L
 RT: 8.171 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

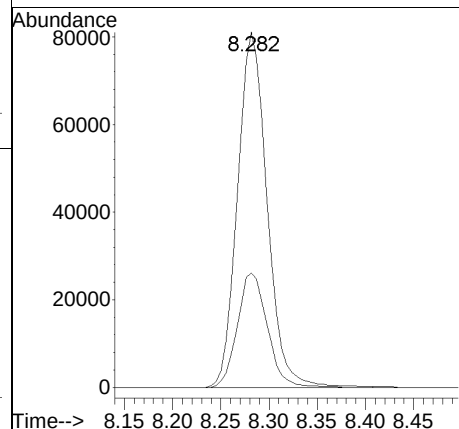
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	136623		
81	13.9		0.0	34.6
127	77.1		56.9	96.9

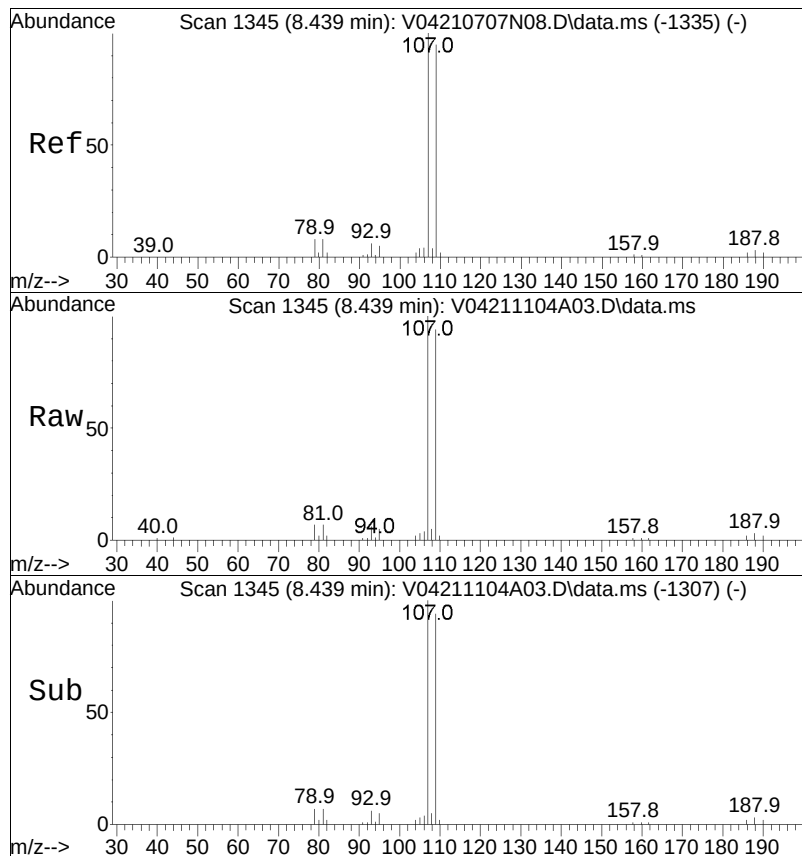




#70
 1,3-Dichloropropane
 Concen: 39.49 ug/L
 RT: 8.282 min Scan# 1315
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

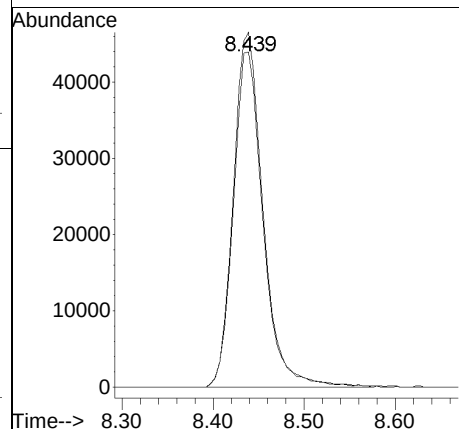
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8

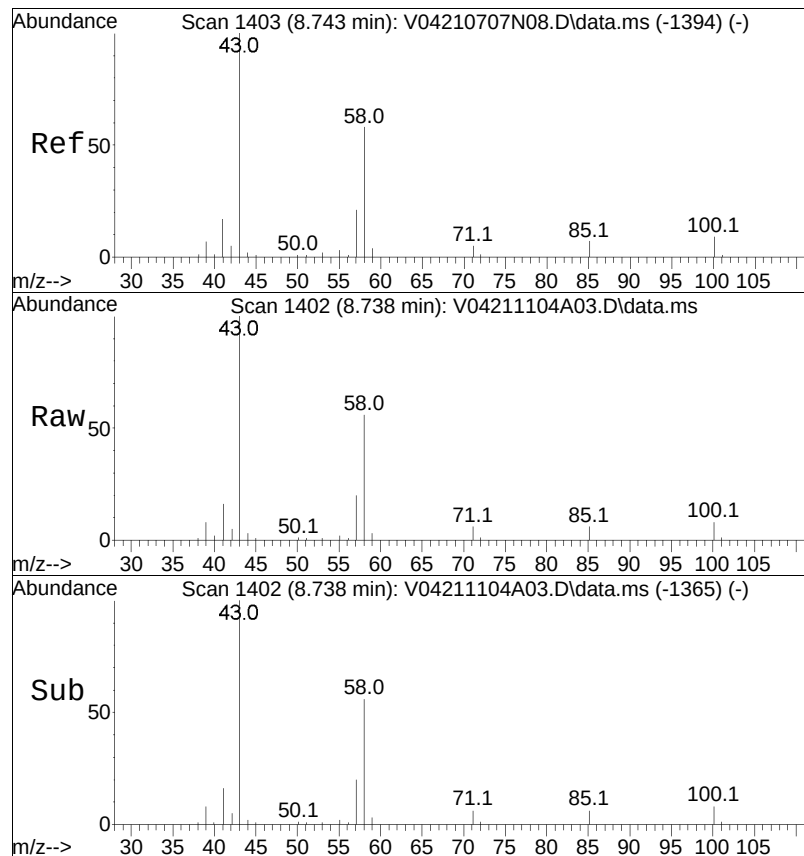




#71
 1,2-Dibromoethane
 Concen: 35.37 ug/L
 RT: 8.439 min Scan# 1345
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

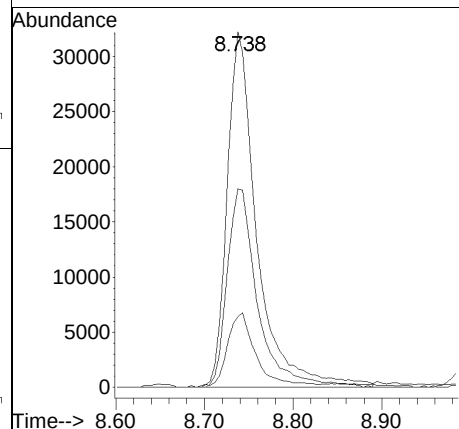
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.4	113.0

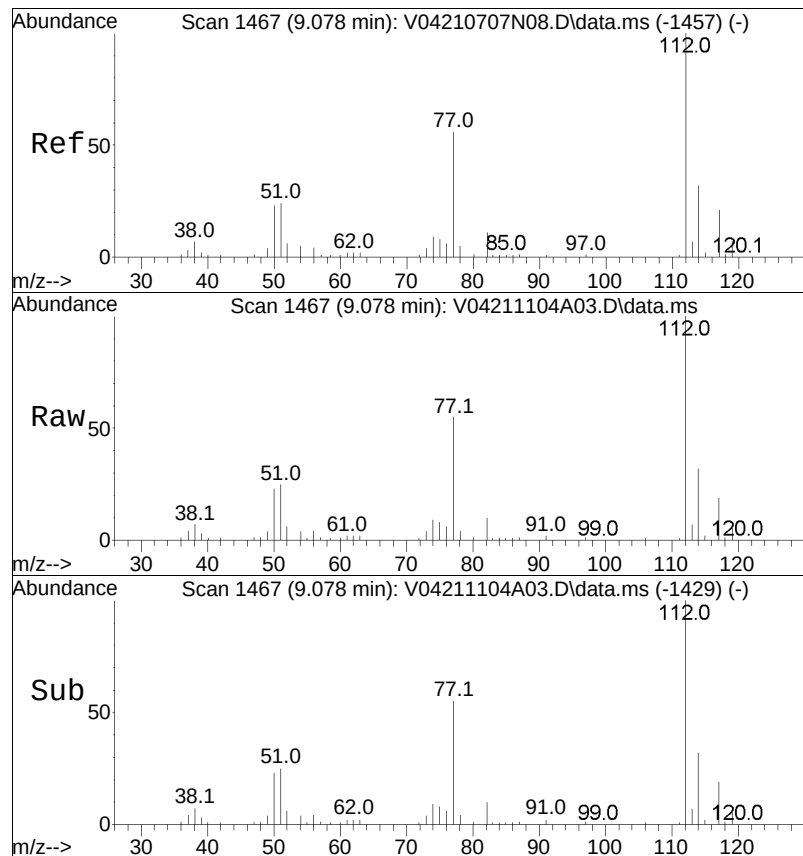




#72
 2-Hexanone
 Concen: 33.60 ug/L
 RT: 8.738 min Scan# 1402
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

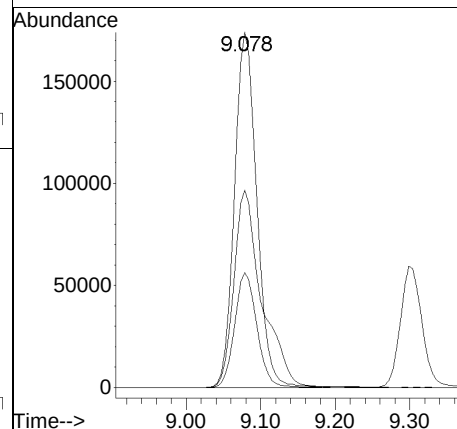
Tgt Ion: 43	Resp: 75496
Ion Ratio	Lower Upper
43 100	
58 57.7	44.7 67.1
57 20.3	15.4 23.0

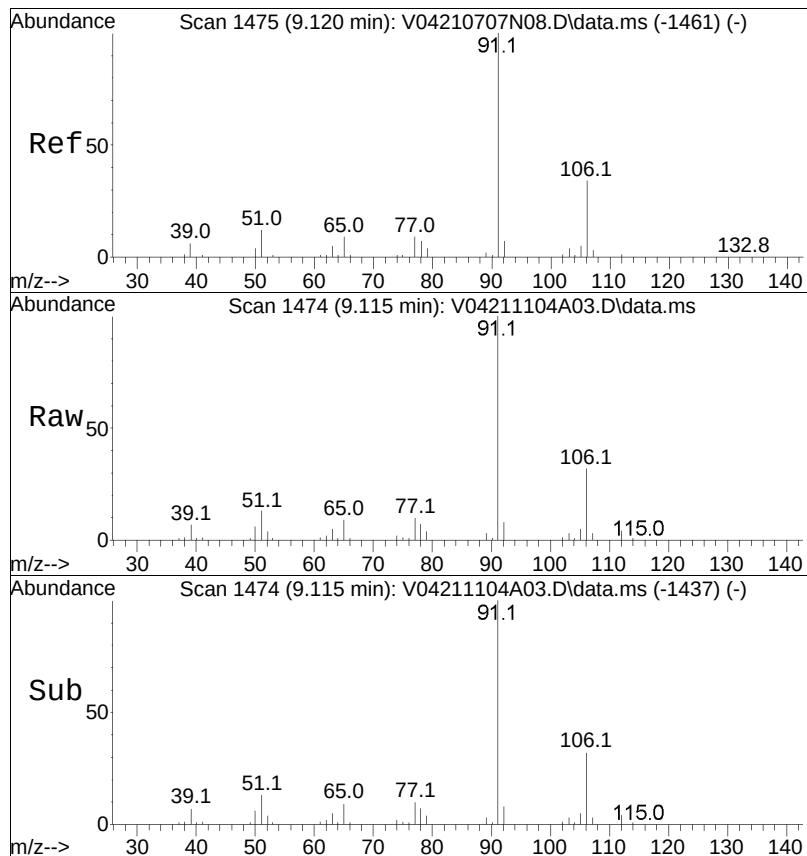




#73
 Chlorobenzene
 Concen: 39.29 ug/L
 RT: 9.078 min Scan# 1467
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

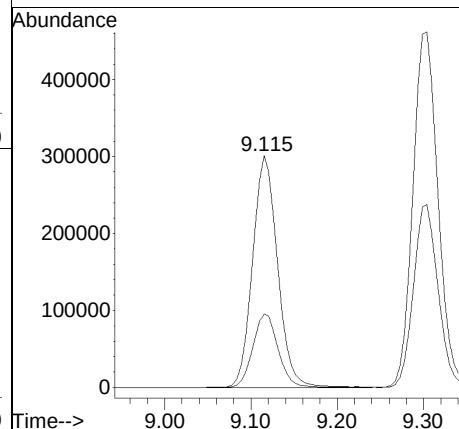
Tgt	Ion	Ratio	Lower	Upper
112	100			
77	69.5	55.3	82.9	
114	32.2	25.5	38.3	

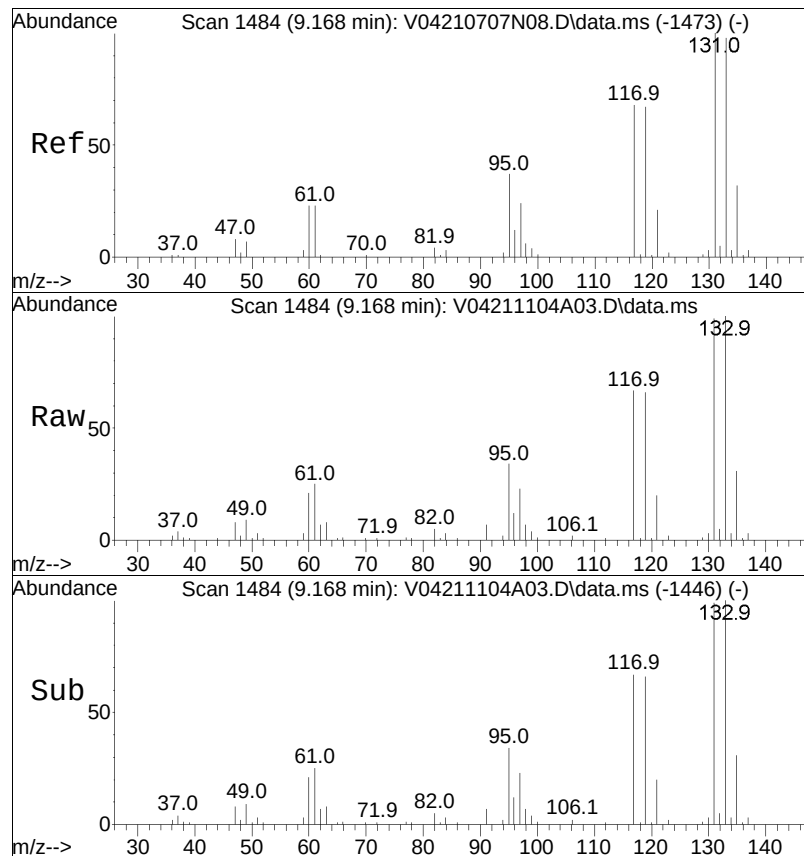




#74
 Ethylbenzene
 Concen: 38.88 ug/L
 RT: 9.115 min Scan# 1474
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

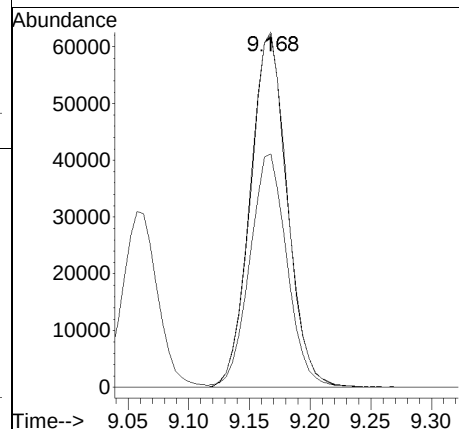
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.4	38.2

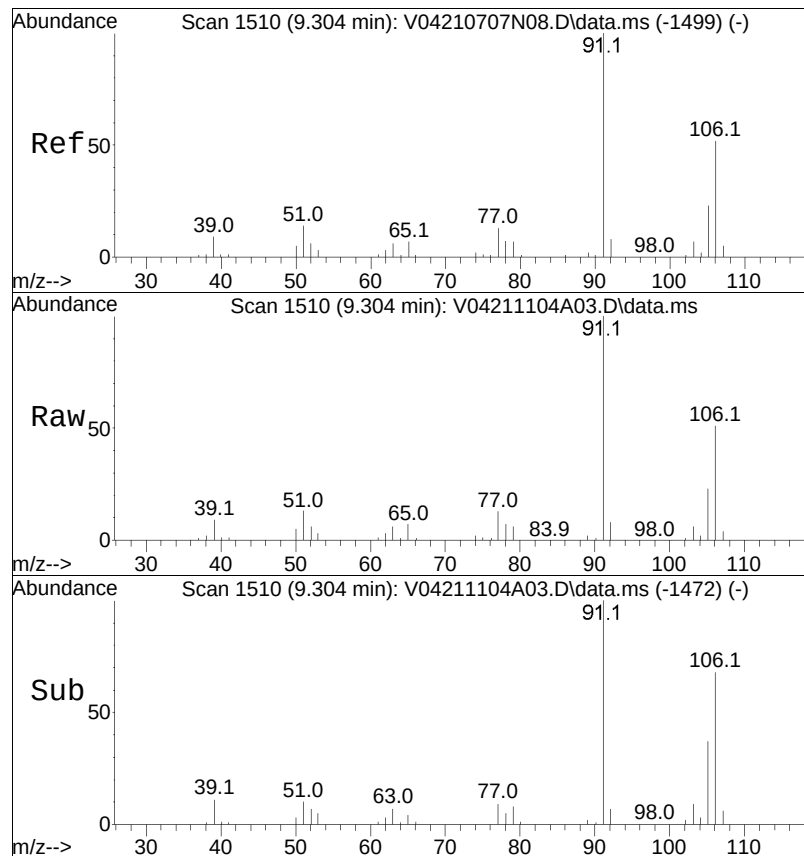




#75
 1,1,1,2-Tetrachloroethane
 Concen: 39.62 ug/L
 RT: 9.168 min Scan# 1484
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

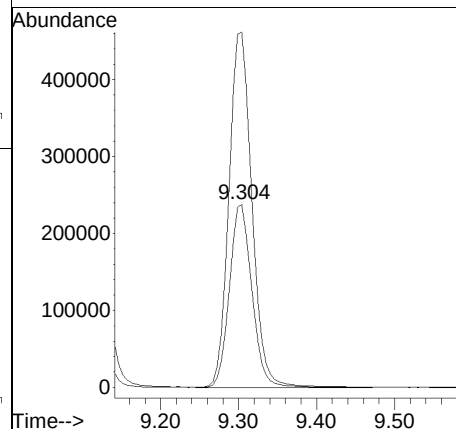
Tgt Ion	Ratio	Resp	Lower	Upper
131	100	132908		
133	98.9		77.0	117.0
119	66.1		45.8	85.8

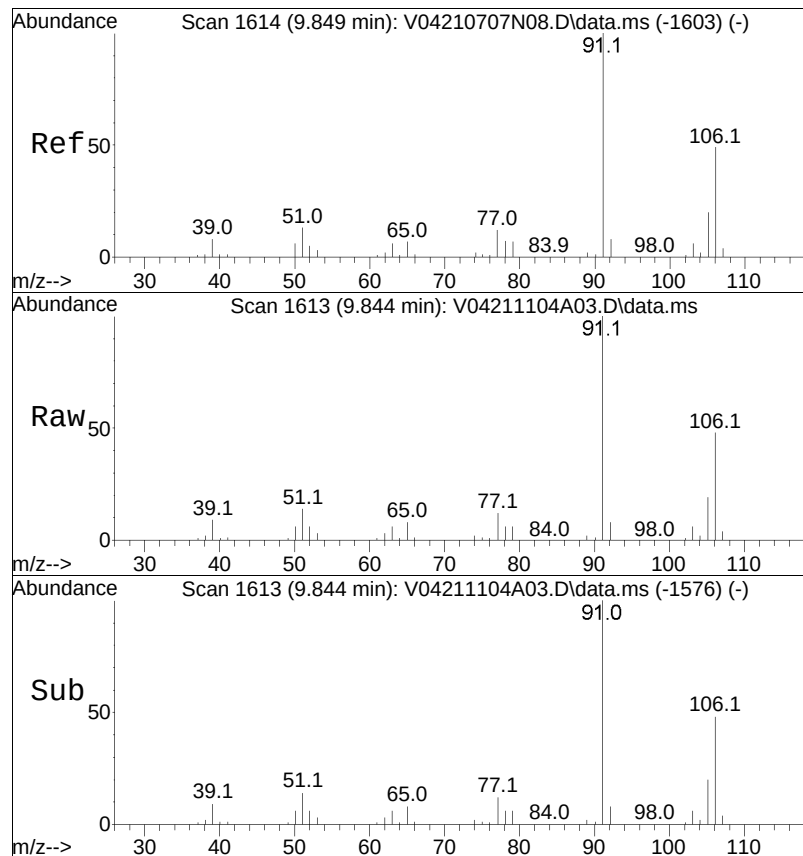




#76
 p/m Xylene
 Concen: 82.94 ug/L
 RT: 9.304 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

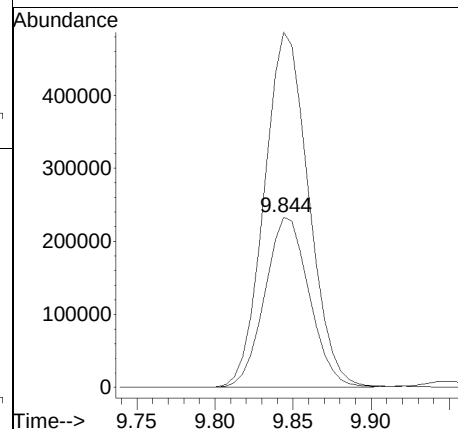
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	196.4	157.1	235.7	

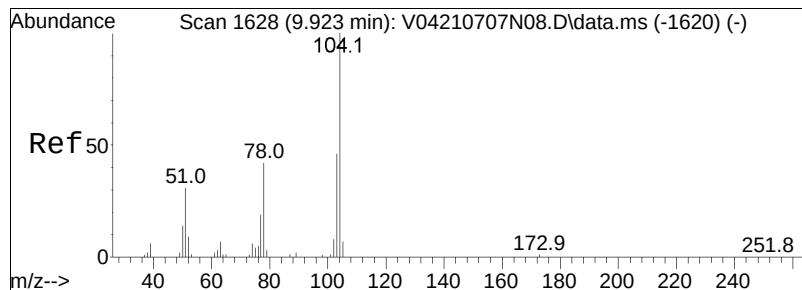




#77
 o Xylene
 Concen: 75.39 ug/L
 RT: 9.844 min Scan# 1613
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	208.6	165.9	248.9	





#78

Styrene

Concen: 79.12 ug/L

RT: 9.923 min Scan# 1628

Delta R.T. -0.000 min

Lab File: V04211104A03.D

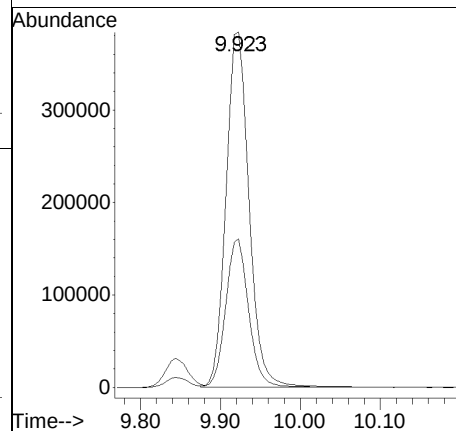
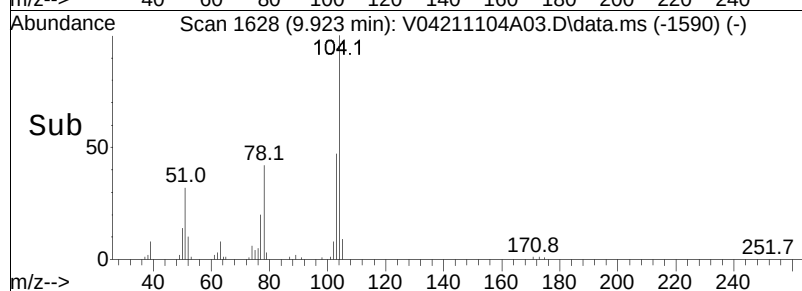
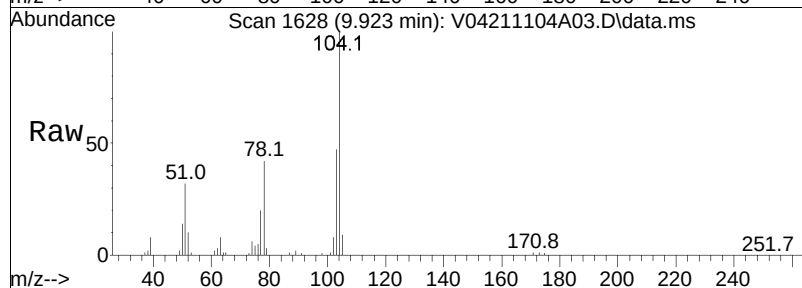
Acq: 4 Nov 2021 7:31 am

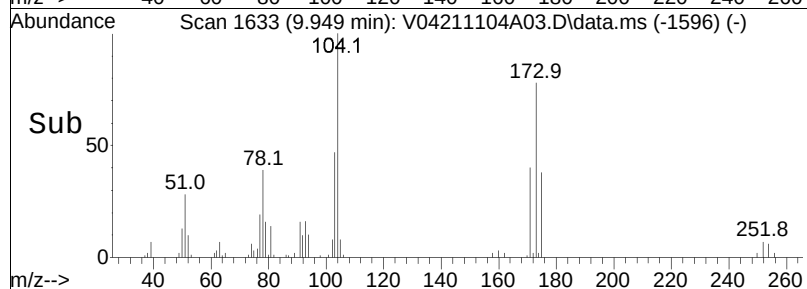
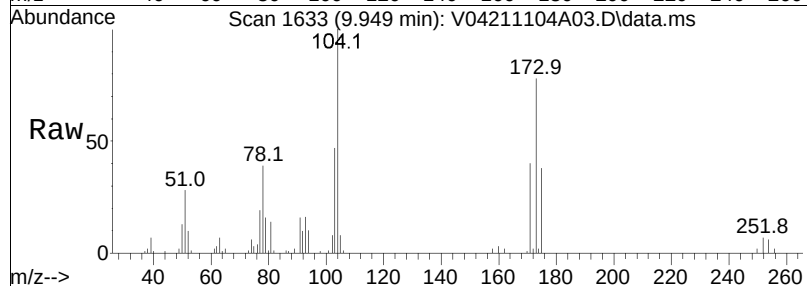
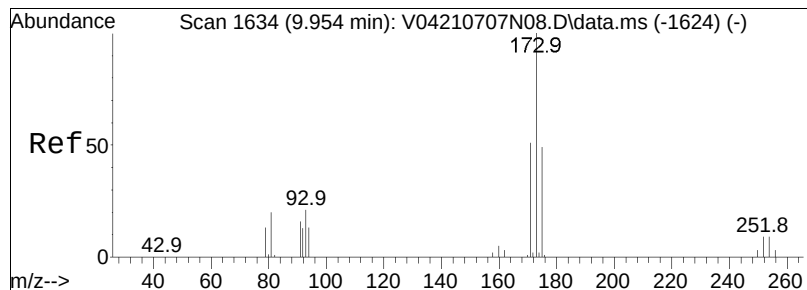
Tgt Ion:104 Resp: 768694

Ion Ratio Lower Upper

104 100

78 41.5 33.0 49.4





#80

Bromoform

Concen: 34.64 ug/L

RT: 9.949 min Scan# 1633

Delta R.T. -0.005 min

Lab File: V04211104A03.D

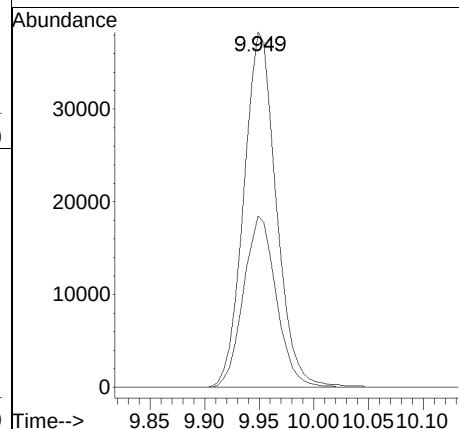
Acq: 4 Nov 2021 7:31 am

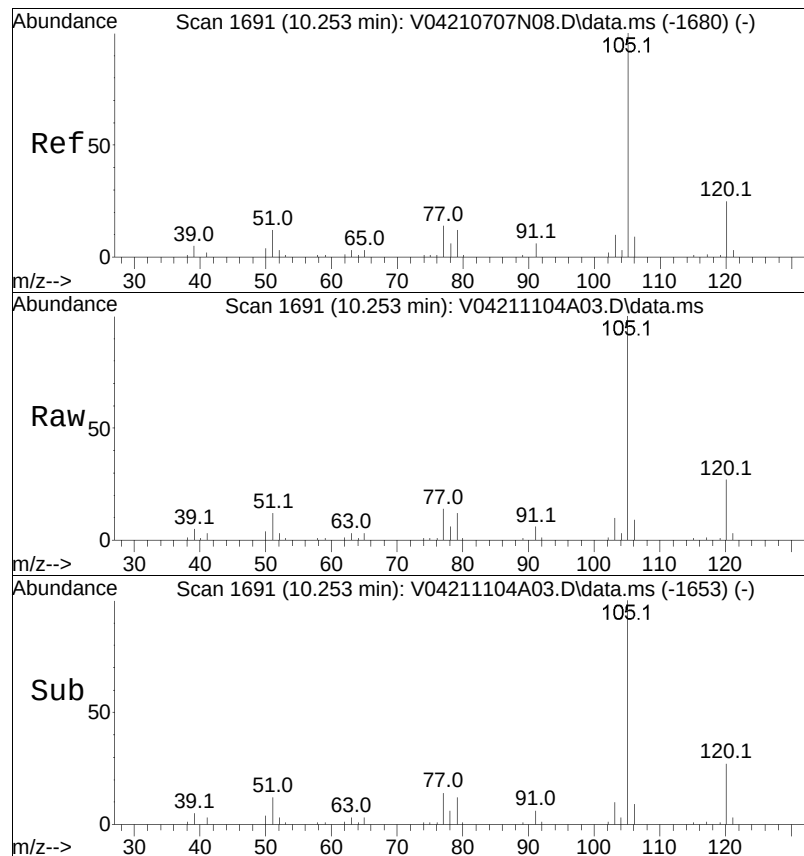
Tgt Ion:173 Resp: 79357

Ion Ratio Lower Upper

173 100

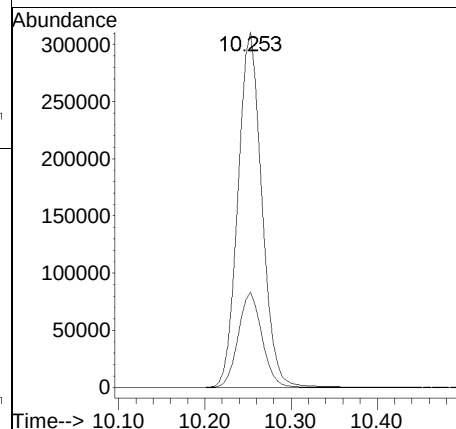
175 48.7 28.2 68.2

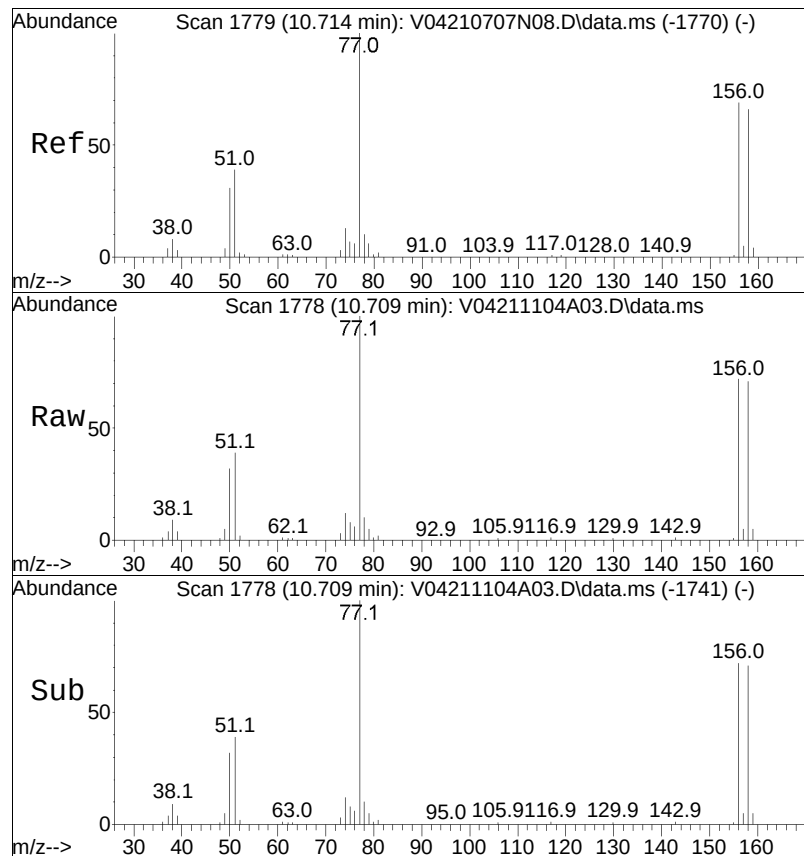




#82
Isopropylbenzene
Concen: 36.73 ug/L
RT: 10.253 min Scan# 1691
Delta R.T. -0.000 min
Lab File: V04211104A03.D
Acq: 4 Nov 2021 7:31 am

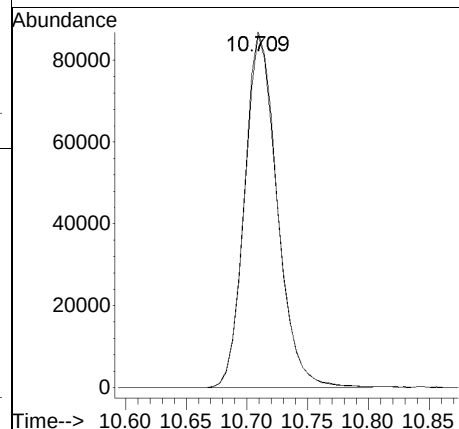
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	6.0	46.0

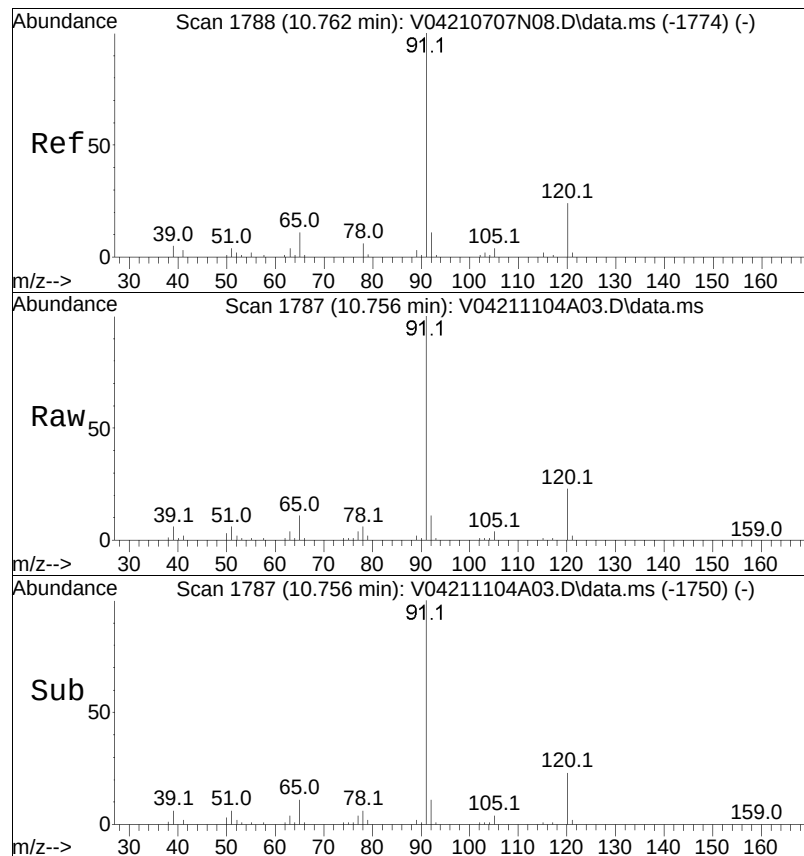




#84
 Bromobenzene
 Concen: 41.40 ug/L
 RT: 10.709 min Scan# 1778
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

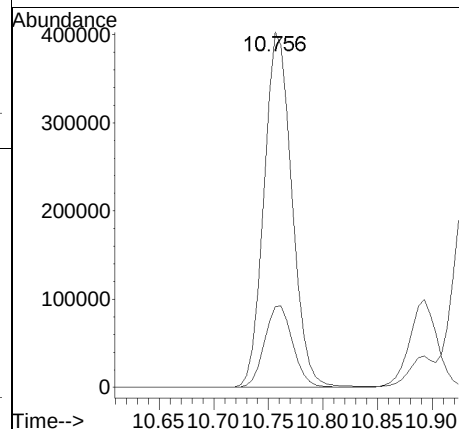
Tgt Ion	Ratio	Lower	Upper
156	100		
158	97.7	79.0	118.4

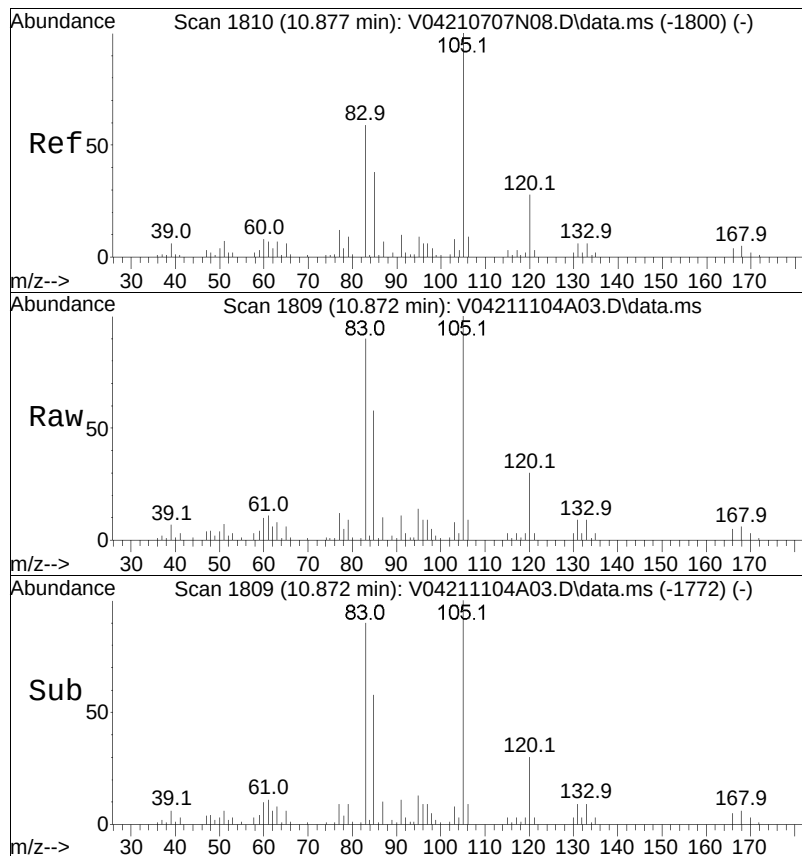




#85
 n-Propylbenzene
 Concen: 39.15 ug/L
 RT: 10.756 min Scan# 1787
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

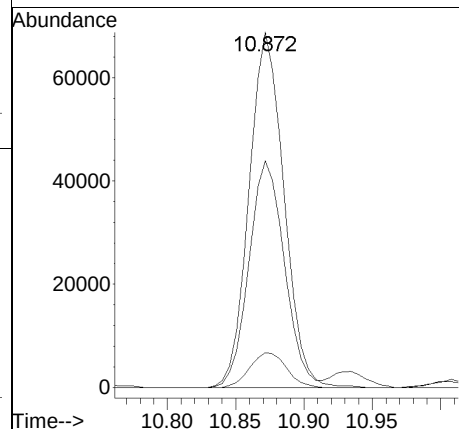
Tgt Ion:	91	Resp:	715861
Ion Ratio	Lower	Upper	
91	100		
120	23.2	18.9	28.3

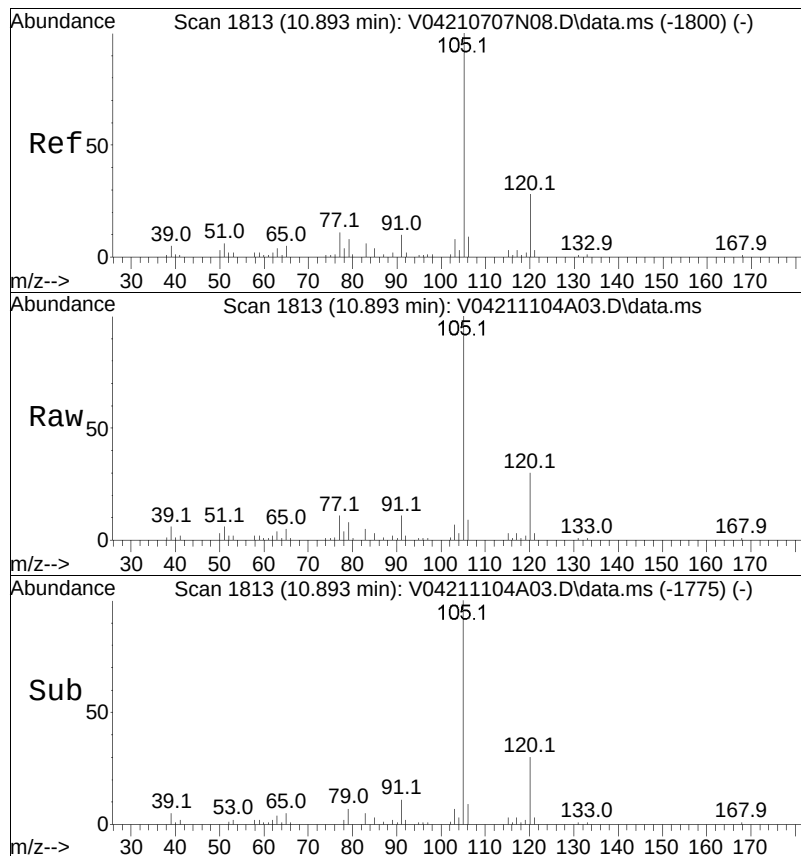




#87
 1,1,2,2-Tetrachloroethane
 Concen: 35.97 ug/L
 RT: 10.872 min Scan# 1809
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

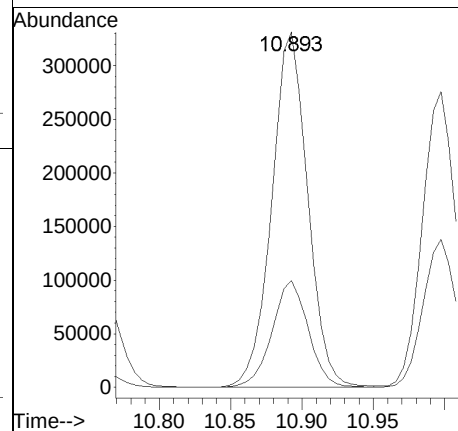
Tgt Ion:	83	Resp:	122070
Ion Ratio	Lower	Upper	
83	100		
131	10.2	0.0	30.7
85	65.1	44.7	84.7

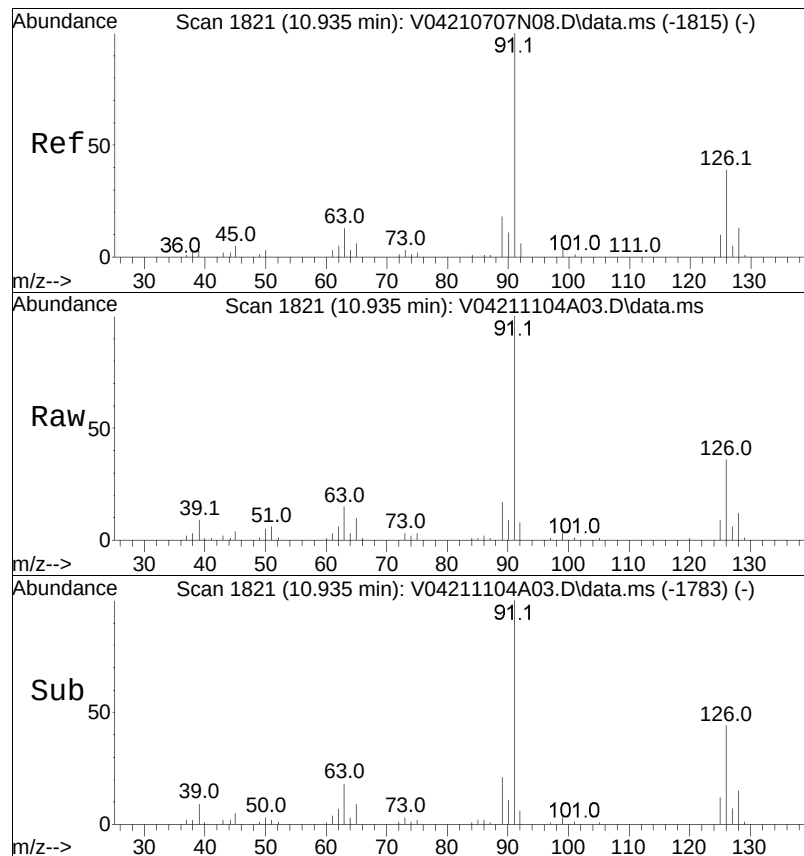




#88
 4-Ethyltoluene
 Concen: 37.00 ug/L
 RT: 10.893 min Scan# 1813
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

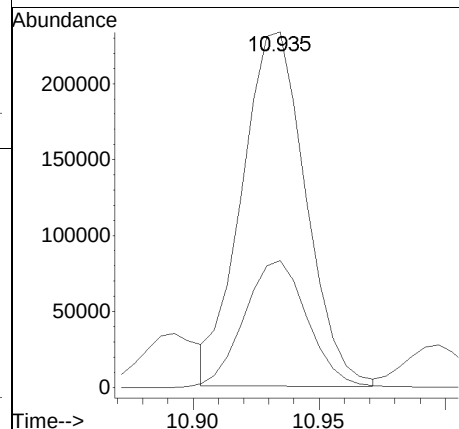
Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	30.1	19.2	40.0

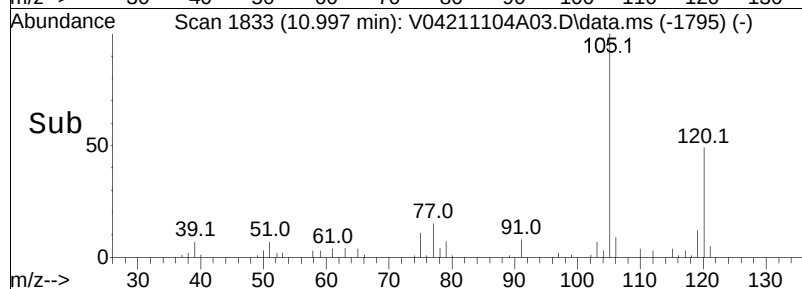
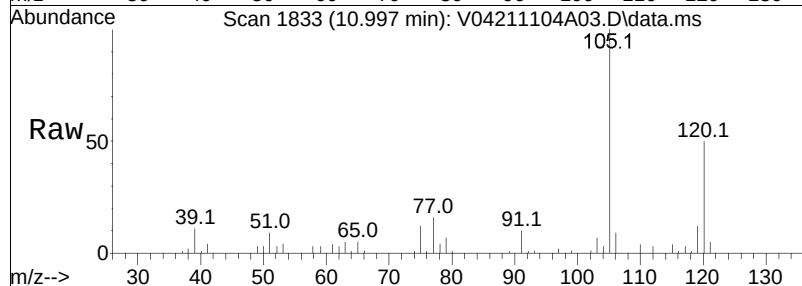
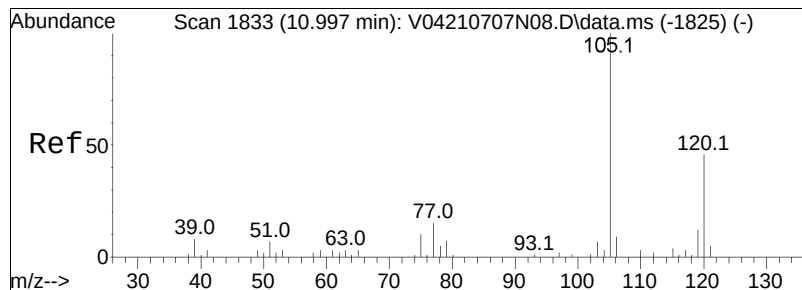




#89
 2-Chlorotoluene
 Concen: 37.67 ug/L
 RT: 10.935 min Scan# 1821
 Delta R.T. -0.001 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt	Ion	Resp	Lower	Upper
91	100	412755		
126	35.5	27.8	41.8	





#90

1,3,5-Trimethylbenzene

Concen: 34.37 ug/L

RT: 10.997 min Scan# 1833

Delta R.T. 0.000 min

Lab File: V04211104A03.D

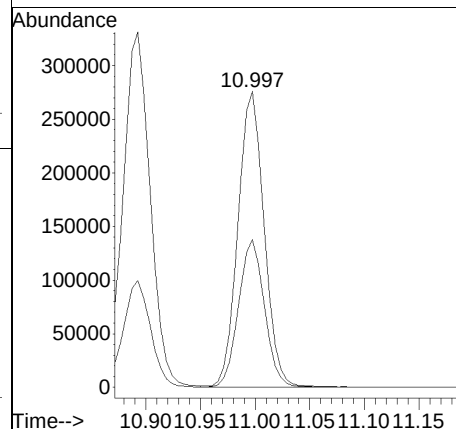
Acq: 4 Nov 2021 7:31 am

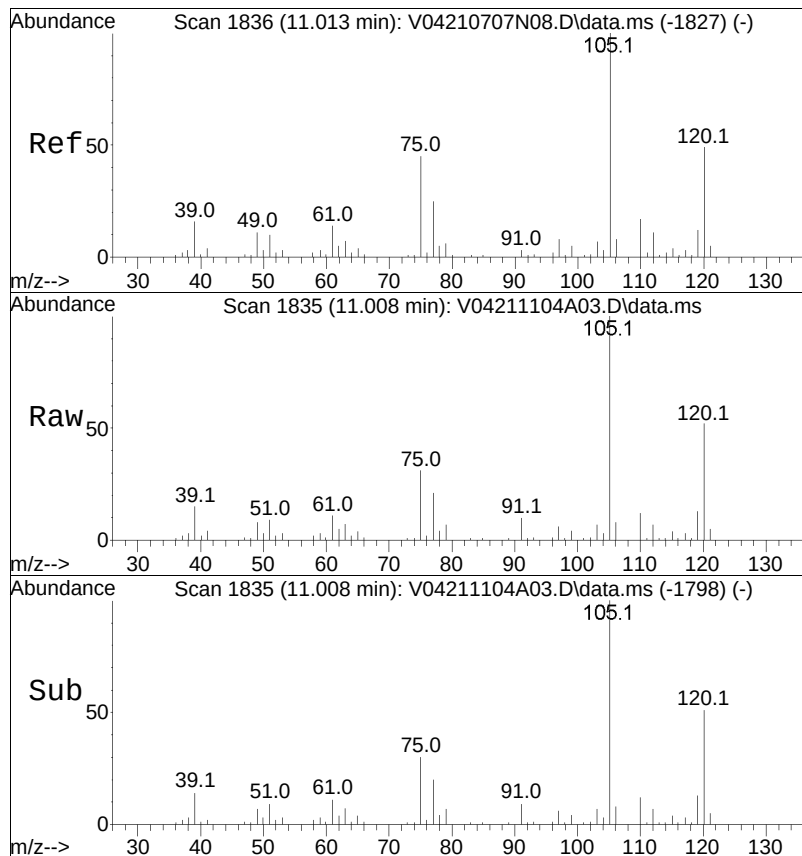
Tgt Ion:105 Resp: 459765

Ion Ratio Lower Upper

105 100

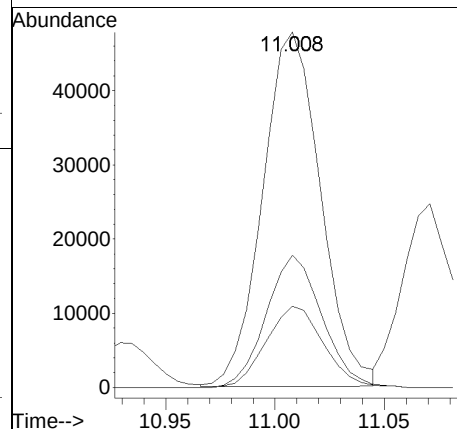
120 49.7 38.4 57.6

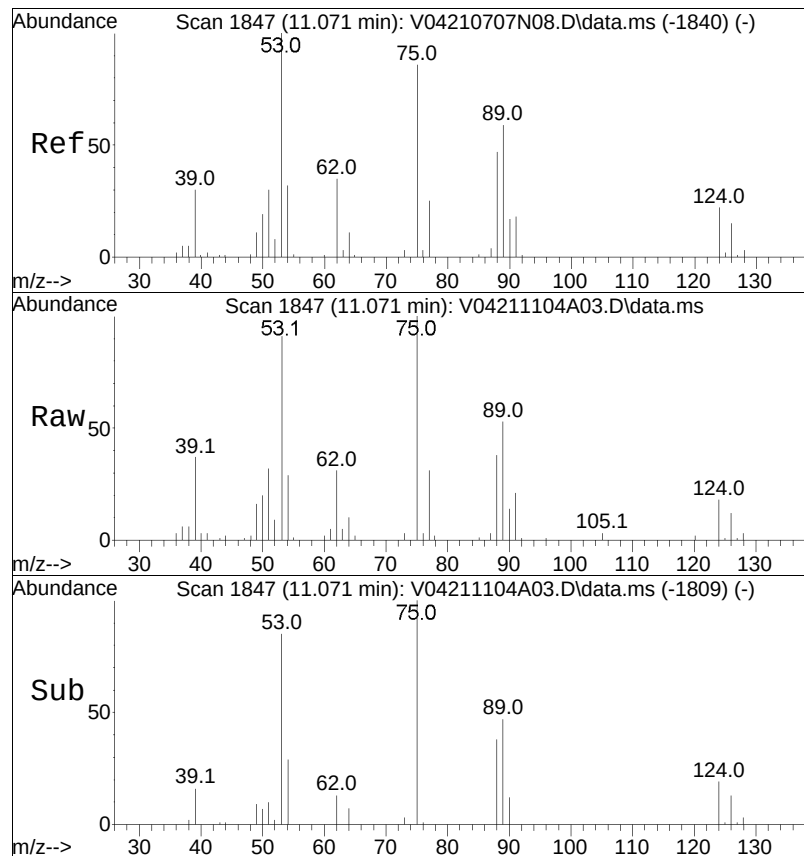




#91
 1,2,3-Trichloropropane
 Concen: 33.54 ug/L
 RT: 11.008 min Scan# 1835
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

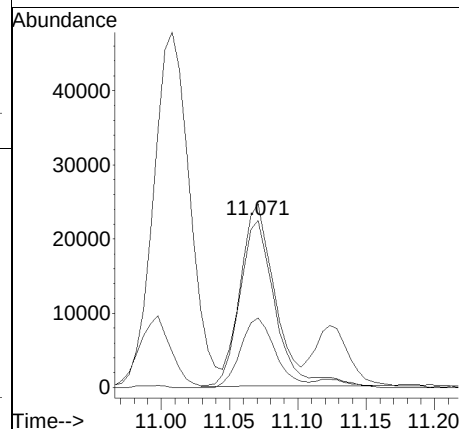
Tgt Ion:	75	Resp:	88128
Ion Ratio	Lower	Upper	
75	100		
110	35.8	24.6	51.2
112	22.7	15.5	32.3

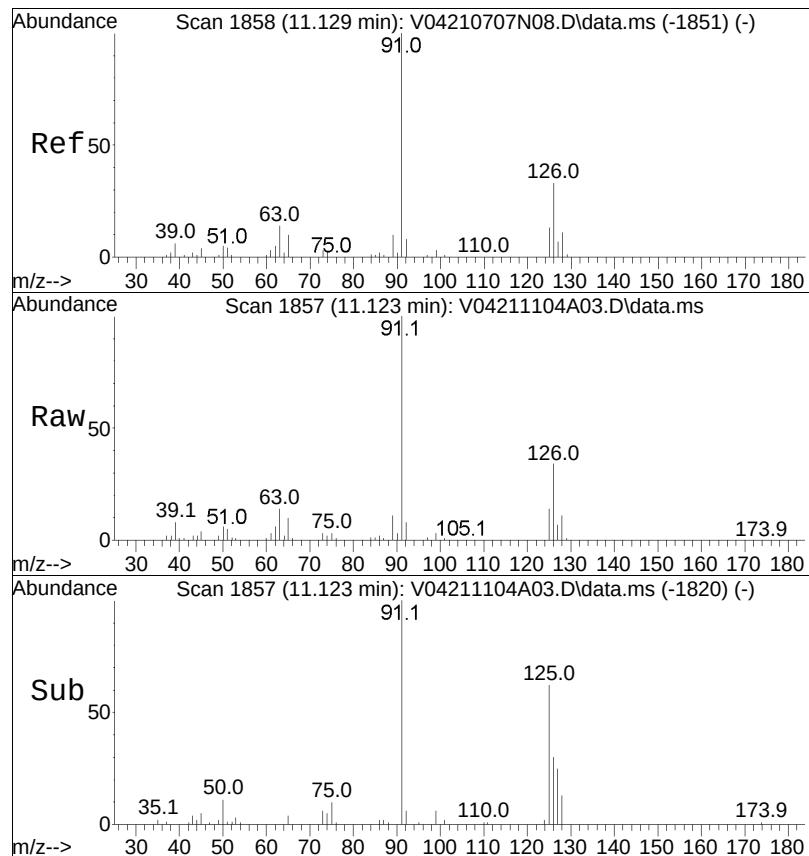




#92
 trans-1,4-Dichloro-2-butene
 Concen: 33.20 ug/L
 RT: 11.071 min Scan# 1847
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

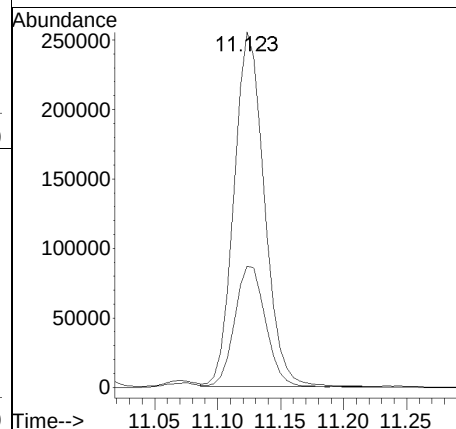
Tgt Ion	Ratio	Lower	Upper
53	100		
88	41.1	35.5	53.3
75	102.9	82.8	124.2

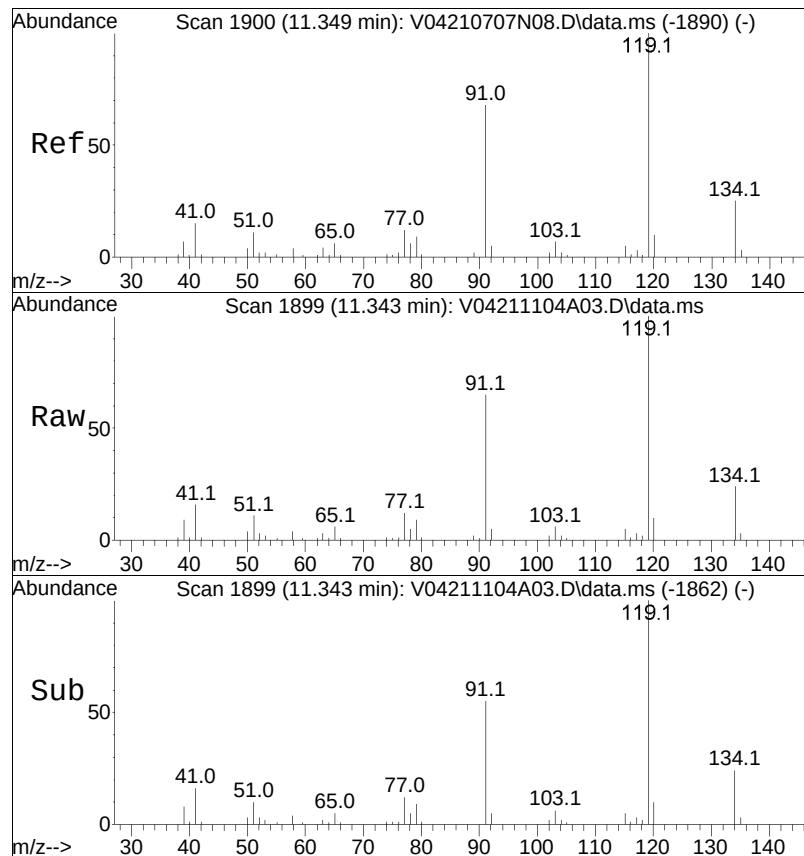




#93
 4-Chlorotoluene
 Concen: 37.41 ug/L
 RT: 11.123 min Scan# 1857
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

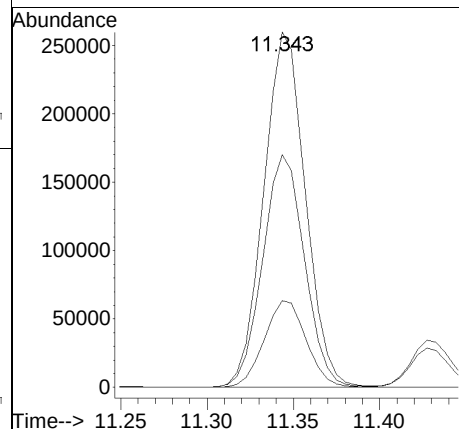
Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	27.6	41.4

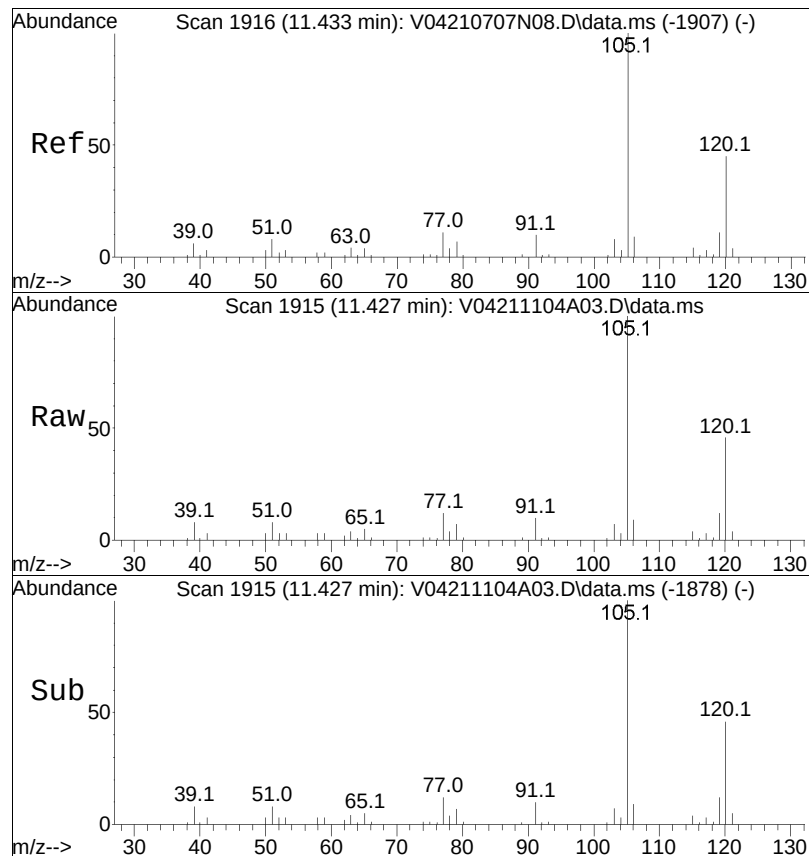




#94
 tert-Butylbenzene
 Concen: 38.59 ug/L
 RT: 11.343 min Scan# 1899
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

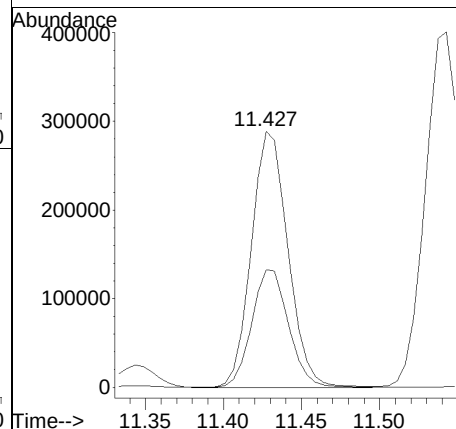
Tgt Ion	Ratio	Lower	Upper
119	100		
91	65.5	53.0	79.6
134	24.7	19.6	29.4

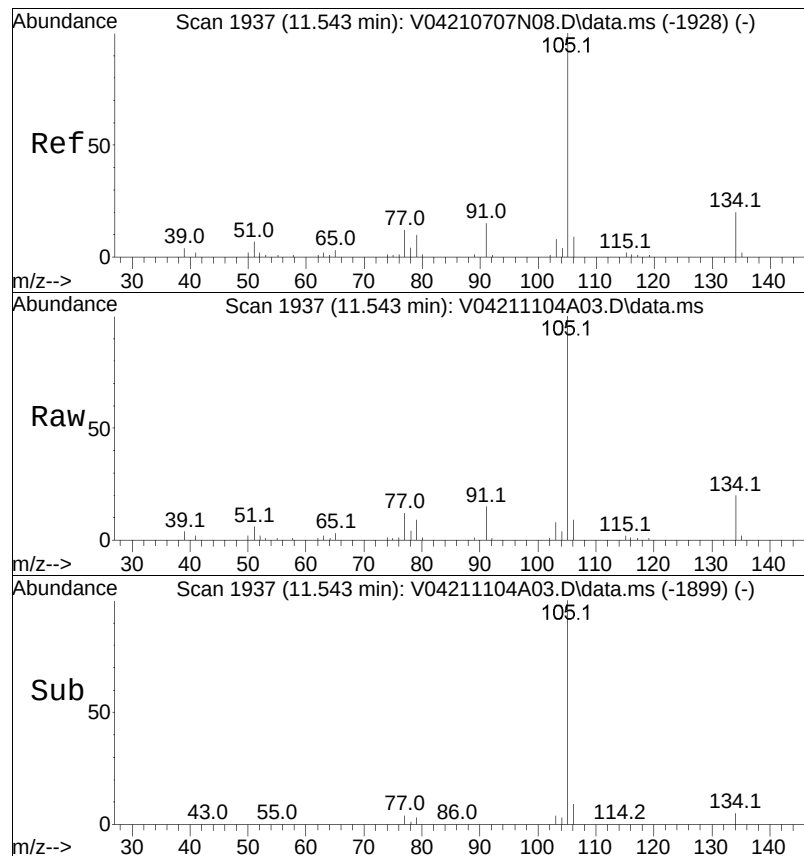




#97
 1,2,4-Trimethylbenzene
 Concen: 35.20 ug/L
 RT: 11.427 min Scan# 1915
 Delta R.T. -0.006 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

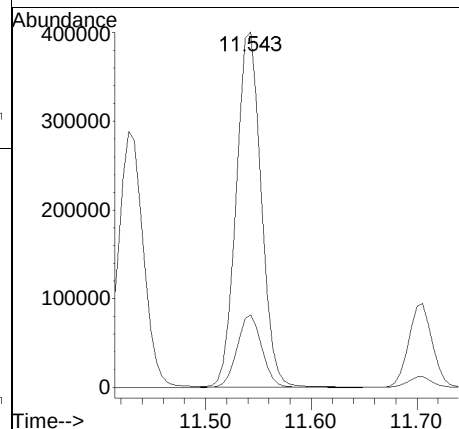
Tgt Ion	105	120	Ratio	Lower	Upper
Resp:	470565				
105	100				
120	46.0		36.4	54.6	

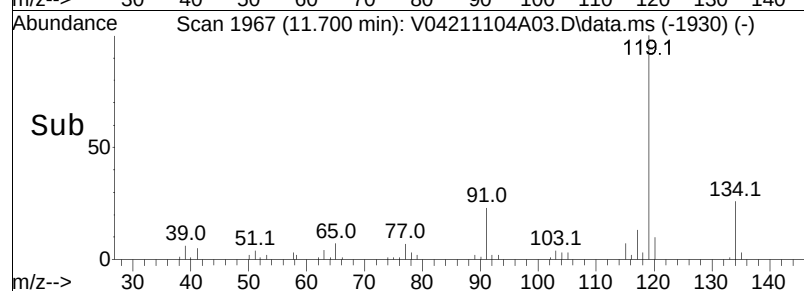
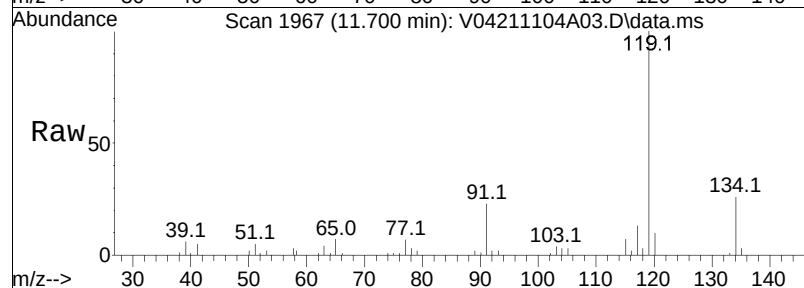
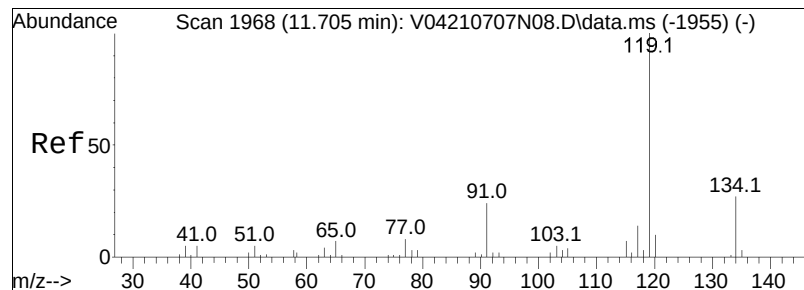




#98
 sec-Butylbenzene
 Concen: 36.97 ug/L
 RT: 11.543 min Scan# 1937
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

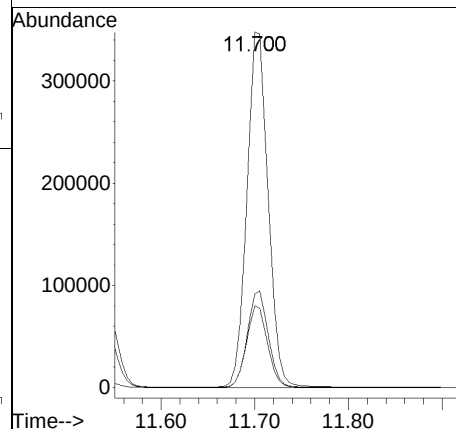
Tgt Ion:105 Resp: 655667
 Ion Ratio Lower Upper
 105 100
 134 20.3 12.9 26.9

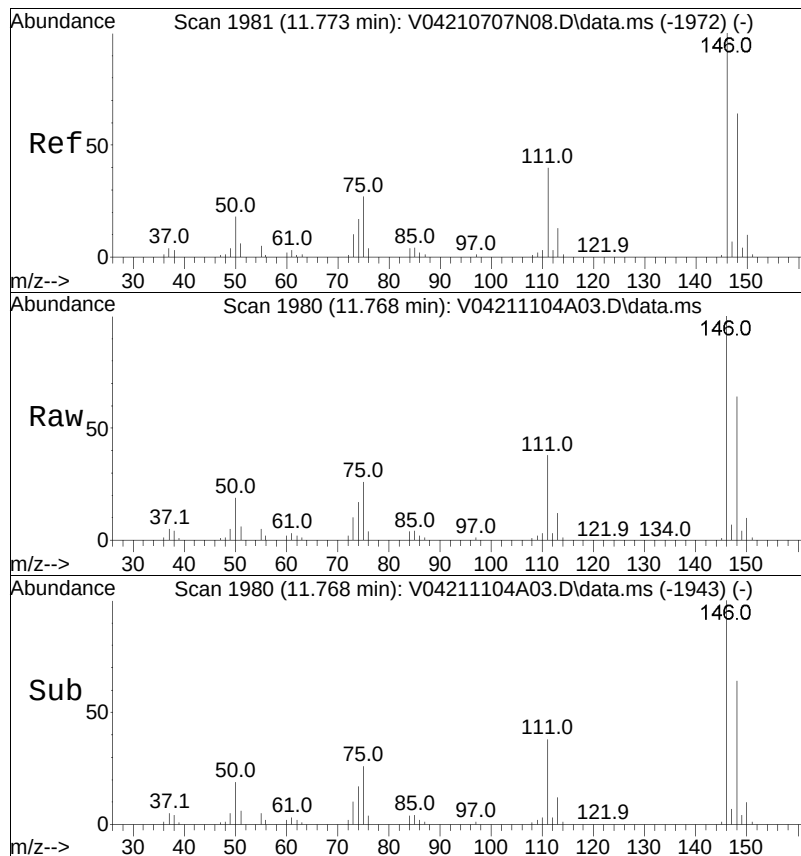




#99
 p-Isopropyltoluene
 Concen: 38.11 ug/L
 RT: 11.700 min Scan# 1967
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

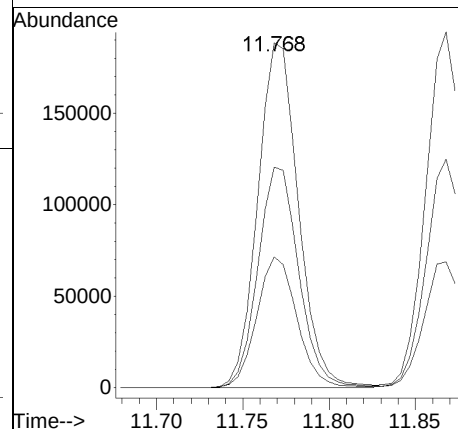
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	17.1	35.5
91	22.9	14.8	30.6

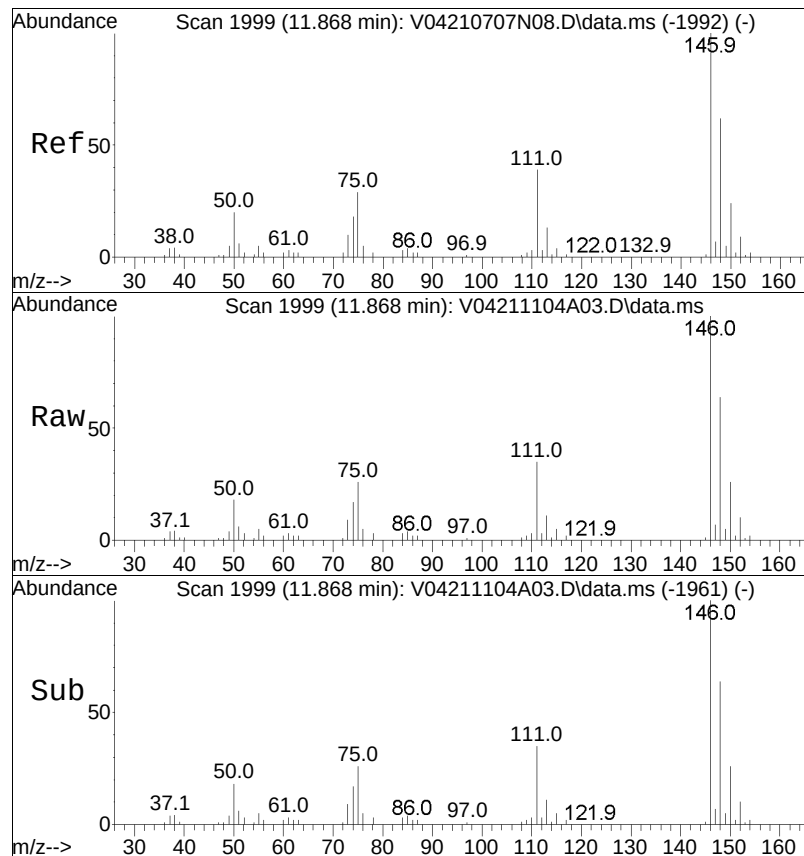




#100
 1,3-Dichlorobenzene
 Concen: 39.52 ug/L
 RT: 11.768 min Scan# 1980
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

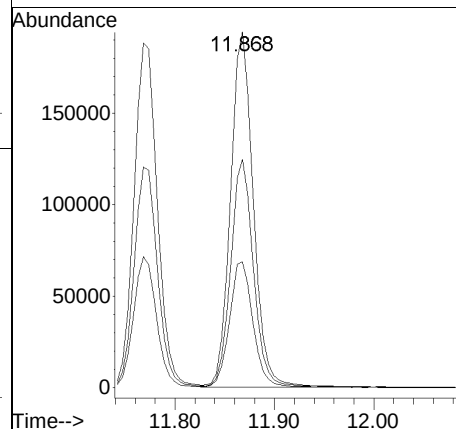
Tgt	Ion:146	Resp:	308286
Ion	Ratio	Lower	Upper
146	100		
111	37.4	24.8	51.6
148	64.1	41.6	86.4

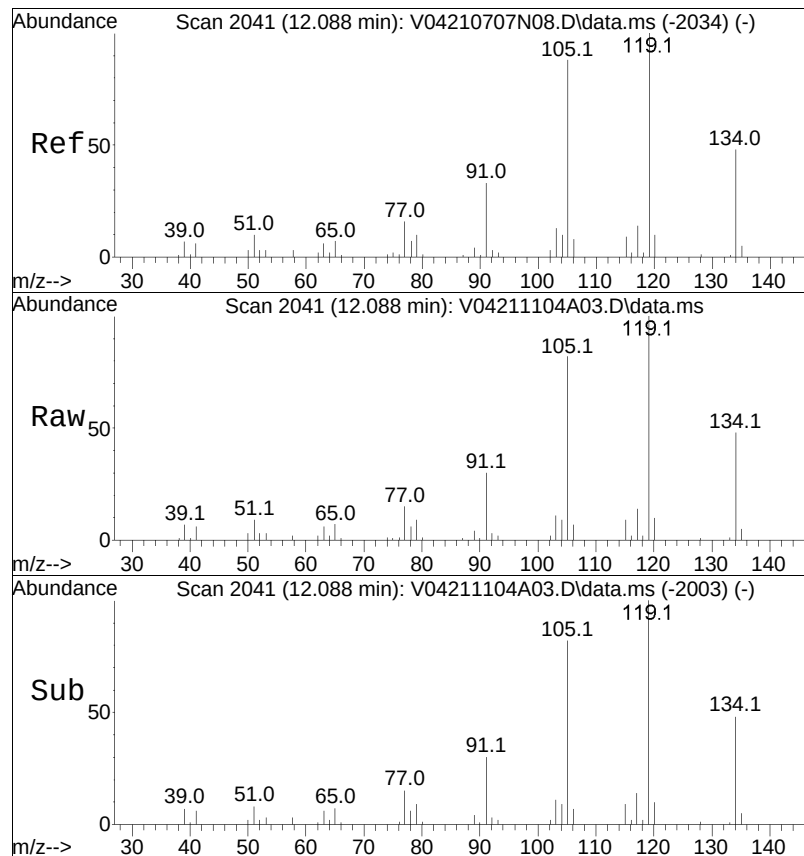




#101
 1,4-Dichlorobenzene
 Concen: 38.86 ug/L
 RT: 11.868 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

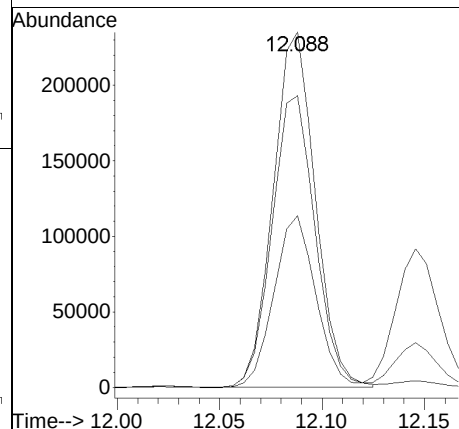
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	30.2	45.2
148	63.9	50.6	76.0

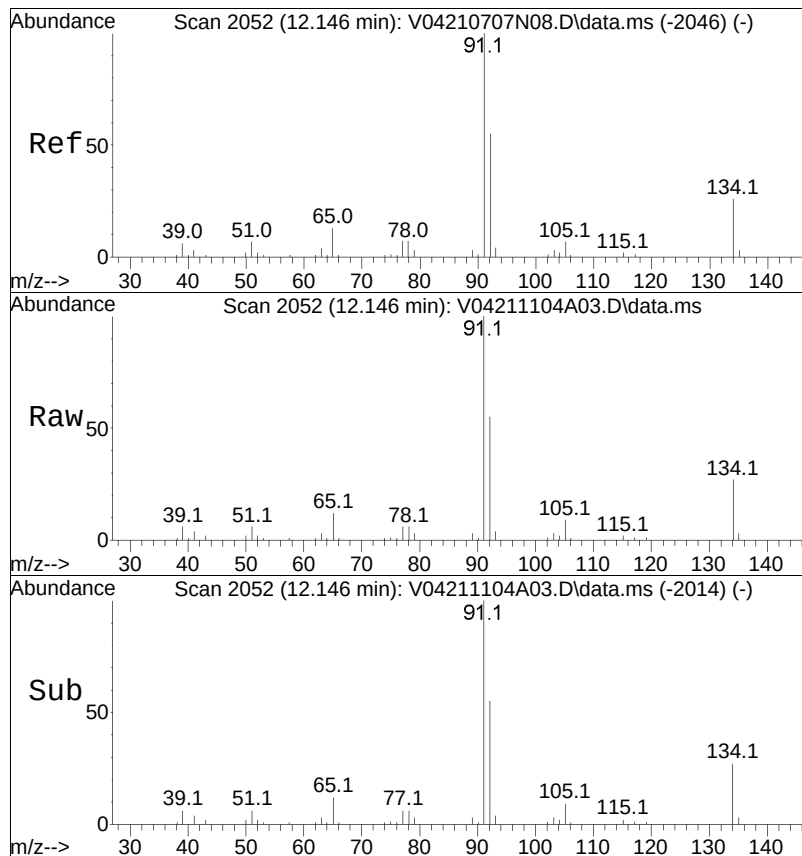




#102
 p-Diethylbenzene
 Concen: 39.78 ug/L
 RT: 12.088 min Scan# 2041
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

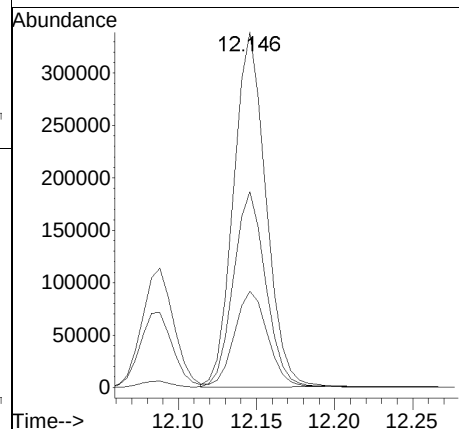
Tgt	Ion	Ratio	Resp	Lower	Upper
119	100				
105	83.6	55.6	115.6		
134	48.1	30.7	63.9		

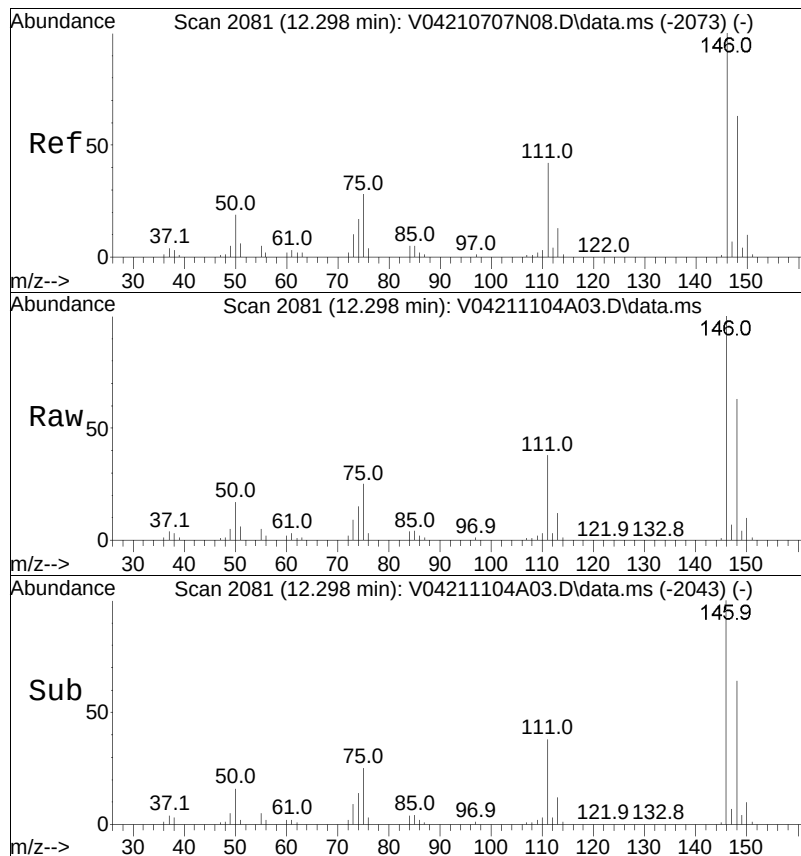




#103
 n-Butylbenzene
 Concen: 38.26 ug/L
 RT: 12.146 min Scan# 2052
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

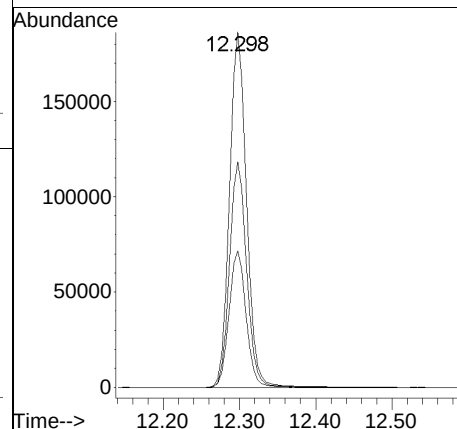
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	43.4	65.2
134	27.9	21.5	32.3

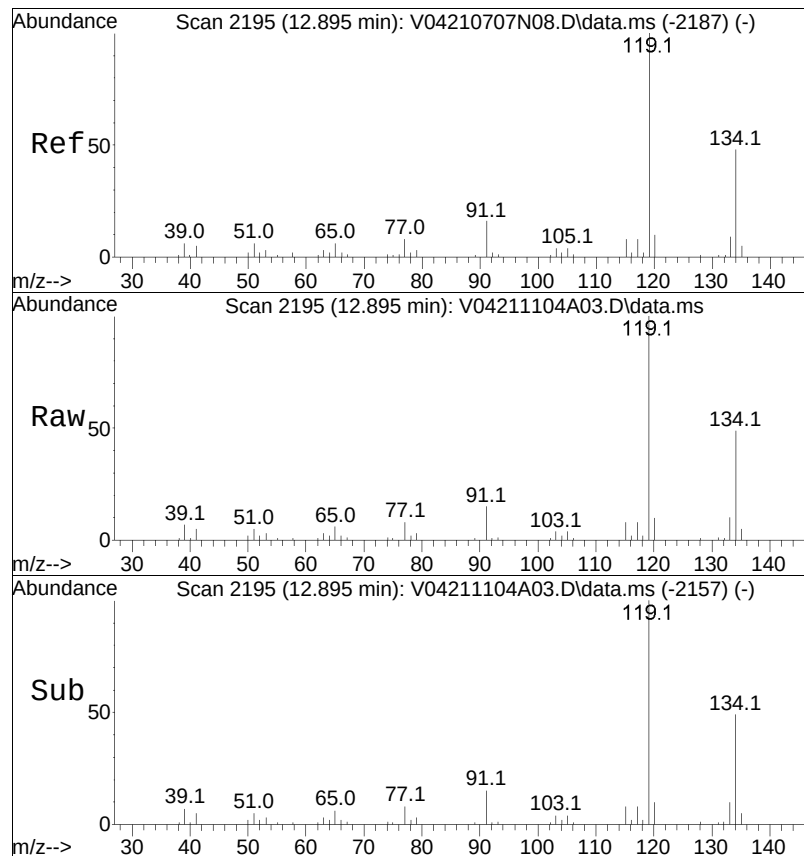




#104
 1,2-Dichlorobenzene
 Concen: 39.40 ug/L
 RT: 12.298 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

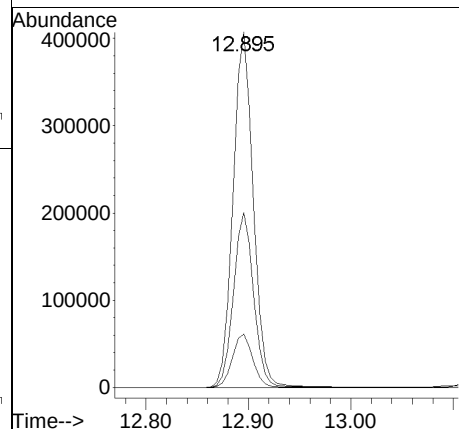
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	25.5	52.9
148	63.9	40.8	84.8

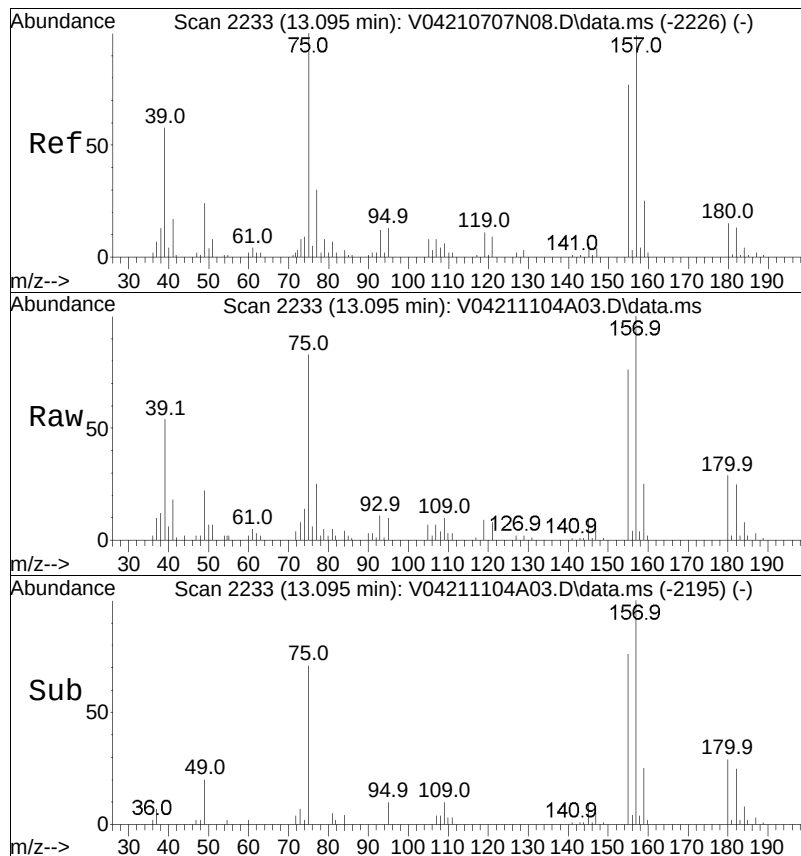




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 40.64 ug/L
 RT: 12.895 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

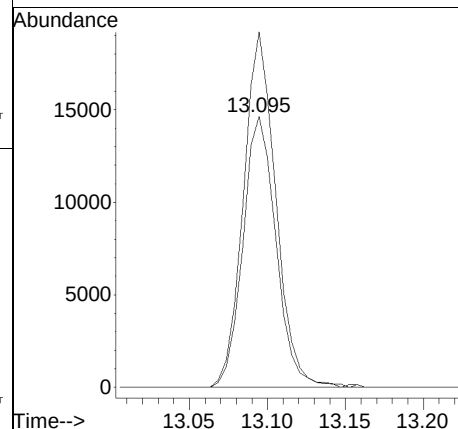
Tgt Ion	Ratio	Lower	Upper
119	100		
134	49.1	31.3	64.9
91	15.2	10.1	21.1

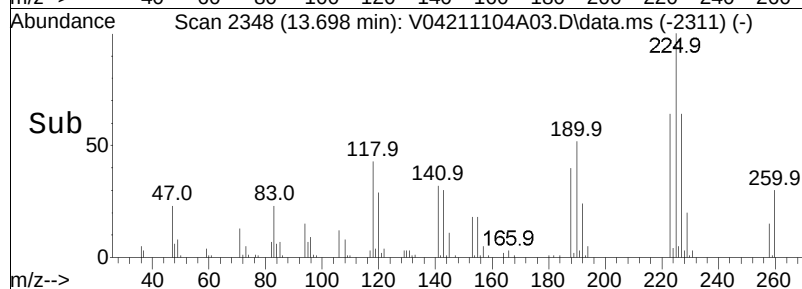
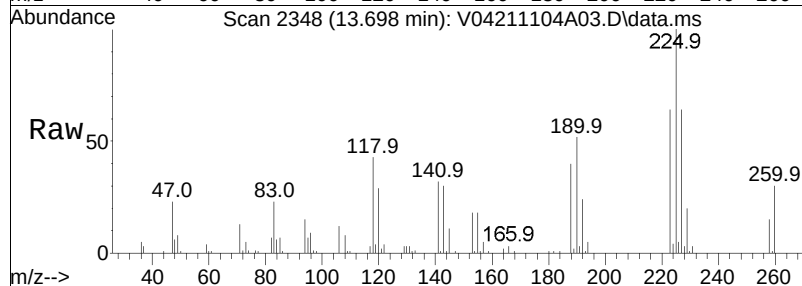
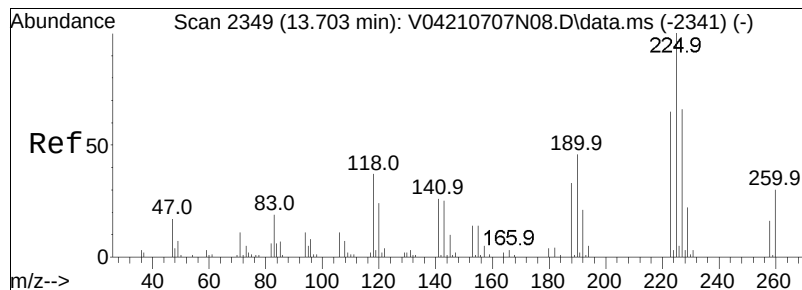




#106
 1,2-Dibromo-3-chloropropane
 Concen: 38.33 ug/L
 RT: 13.095 min Scan# 2233
 Delta R.T. -0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

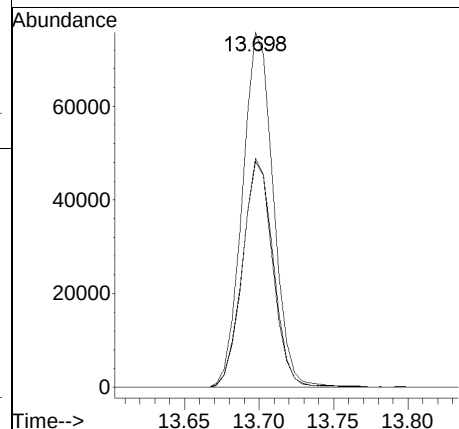
Tgt Ion	Ratio	Lower	Upper
155	100		
157	127.4	103.2	154.8

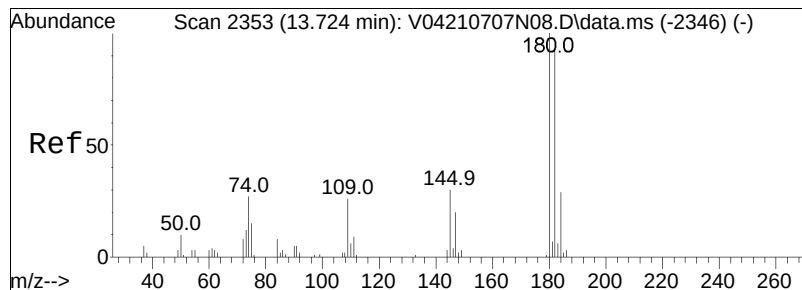




#108
 Hexachlorobutadiene
 Concen: 34.68 ug/L
 RT: 13.698 min Scan# 2348
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.7	76.1
227	64.1	50.7	76.1





#109

1,2,4-Trichlorobenzene

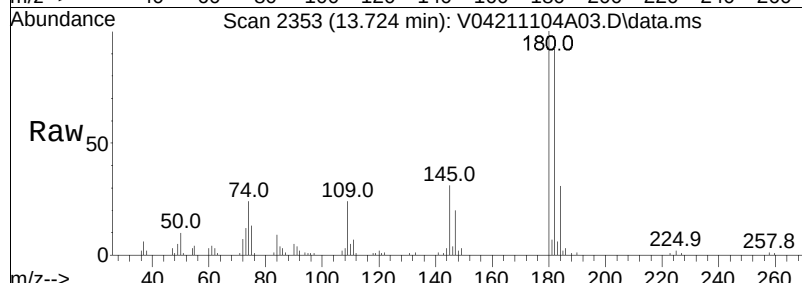
Concen: 40.92 ug/L

RT: 13.724 min Scan# 2353

Delta R.T. -0.000 min

Lab File: V04211104A03.D

Acq: 4 Nov 2021 7:31 am



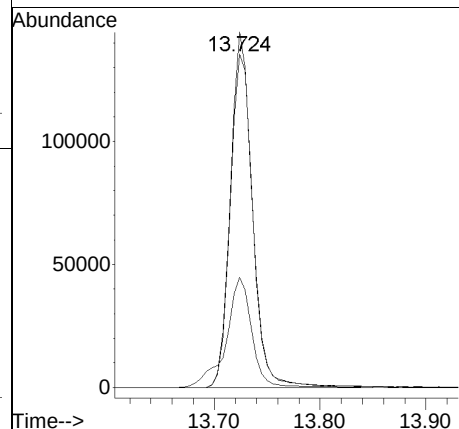
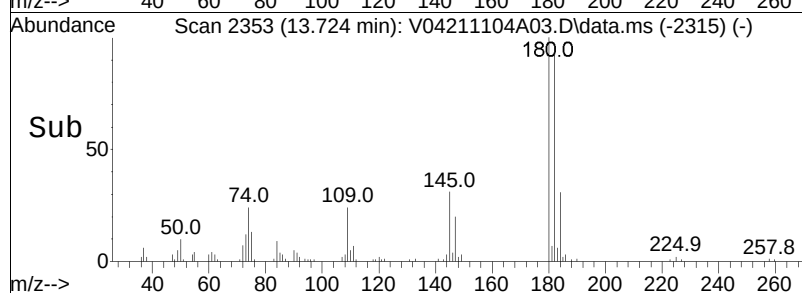
Tgt Ion:180 Resp: 208877

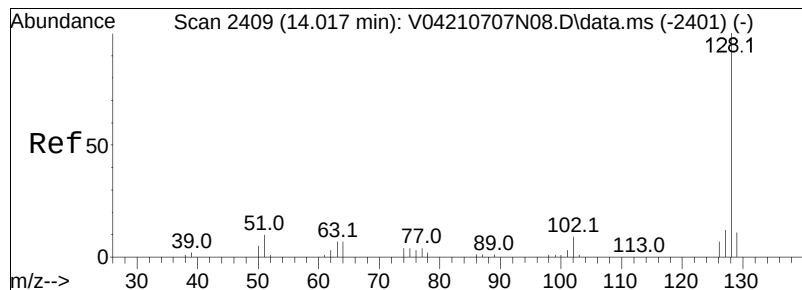
Ion Ratio Lower Upper

180 100

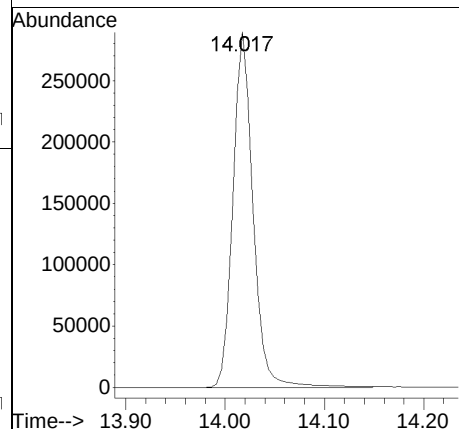
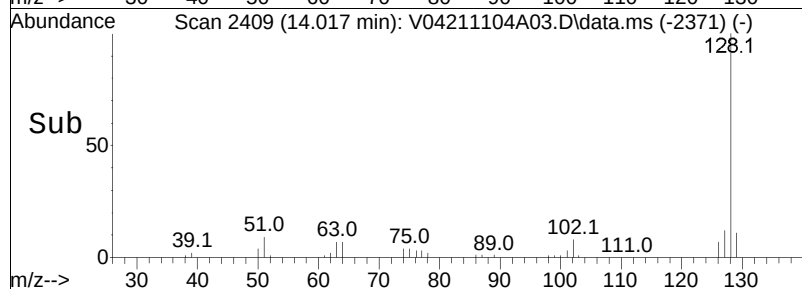
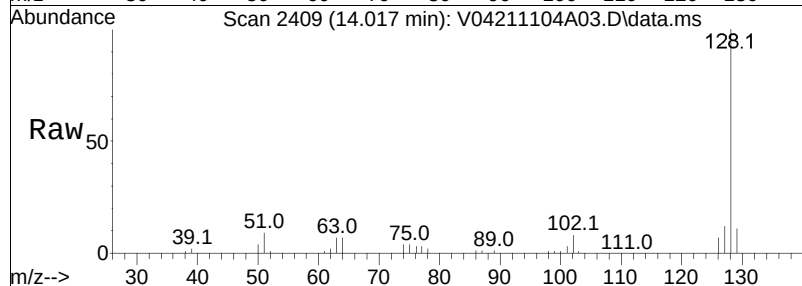
182 97.0 77.0 115.4

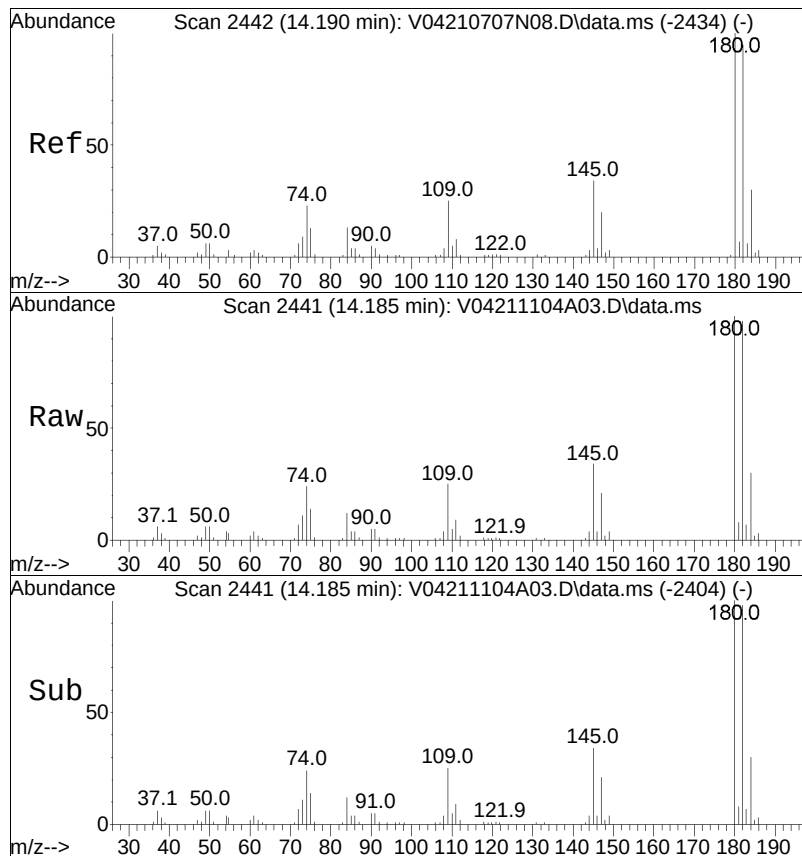
145 36.2 28.4 42.6





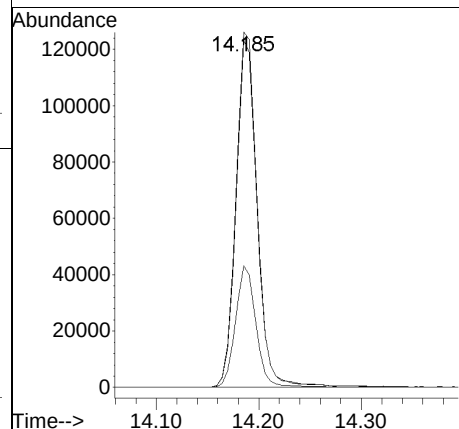
#110
 Naphthalene
 Concen: 37.51 ug/L
 RT: 14.017 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am
 Tgt Ion:128 Resp: 407442





#111
 1,2,3-Trichlorobenzene
 Concen: 39.40 ug/L
 RT: 14.185 min Scan# 2441
 Delta R.T. -0.005 min
 Lab File: V04211104A03.D
 Acq: 4 Nov 2021 7:31 am

Tgt Ion:	180	Resp:	183183
Ion Ratio	Lower	Upper	
180	100		
182	96.4	75.9	113.9
145	32.9	25.8	38.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2021\20	Method	: V104_210707N_8260.m
Data File	: V04211104A03.D	Operator	: VOA104:MV
Date Inj'd	: 11/4/2021 7:31 am	Instrument	: VOA104
Sample	: WG1567116-4,31,5,5	Quant Date	: 11/4/2021 8:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N02.D
 Acq On : 4 Nov 2021 6:25 pm
 Operator : VOA104:AJK
 Sample : WG1567587-4,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 19:05:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.581	96	256795	20.000	ug/L	0.00
Standard Area 1 = 265810			Recovery	=	96.61%	
59) Chlorobenzene-d5	9.058	117	183212	20.000	ug/L	0.00
Standard Area 1 = 186983			Recovery	=	97.98%	
79) 1,4-Dichlorobenzene-d4	11.852	152	99602	20.000	ug/L	0.00
Standard Area 1 = 99430			Recovery	=	100.17%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.800	113	67841	17.344	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	86.72%	
43) 1,2-Dichloroethane-d4	5.309	65	61423	16.564	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	82.82%	
60) Toluene-d8	7.233	98	236251	20.479	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	102.40%	
83) 4-Bromofluorobenzene	10.599	95	85854	18.612	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery	=	93.06%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.492	85	147877	39.655	ug/L	99
3) Chloromethane	1.675	50	237325	47.824	ug/L	99
4) Vinyl chloride	1.723	62	203547	49.414	ug/L	97
5) Bromomethane	2.000	94	100216	54.821	ug/L	98
6) Chloroethane	2.105	64	92128	54.183	ug/L	94
7) Trichlorofluoromethane	2.226	101	221768	41.335	ug/L	100
8) Ethyl ether	2.488	74	61029	32.781	ug/L	82
10) 1,1-Dichloroethene	2.672	96	134807	43.490	ug/L	90
11) Carbon disulfide	2.698	76	424286	36.864	ug/L	100
15) Methylene chloride	3.185	84	143709	39.239	ug/L	84
17) Acetone	3.227	43	35616M4	47.904	ug/L	
18) trans-1,2-Dichloroethene	3.327	96	147025	41.928	ug/L	91
20) Methyl tert-butyl ether	3.406	73	294368	32.779	ug/L	94
23) 1,1-Dichloroethane	3.877	63	315140	39.967	ug/L	98
25) Acrylonitrile	3.935	53	36609	30.980	ug/L	93
27) Vinyl acetate	4.103	43	272039	34.752	ug/L	98
28) cis-1,2-Dichloroethene	4.375	96	154971	39.428	ug/L	90
29) 2,2-Dichloropropane	4.465	77	214019	38.528	ug/L	95
30) Bromochloromethane	4.559	128	71408	39.449	ug/L	86
32) Chloroform	4.632	83	245581	35.660	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N02.D
 Acq On : 4 Nov 2021 6:25 pm
 Operator : VOA104:AJK
 Sample : WG1567587-4,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 19:05:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.748	117	199368	38.797	ug/L	100
37) 1,1,1-Trichloroethane	4.811	97	220640	40.420	ug/L	97
39) 2-Butanone	4.916	43	50563M1	36.408	ug/L	
40) 1,1-Dichloropropene	4.931	75	194348	43.734	ug/L	99
41) Benzene	5.167	78	526368	40.325	ug/L	96
44) 1,2-Dichloroethane	5.377	62	181181	35.336	ug/L	100
48) Trichloroethene	5.749	95	148652	41.381	ug/L	99
50) Dibromomethane	6.190	93	74174	35.496	ug/L	98
51) 1,2-Dichloropropane	6.284	63	166432	38.337	ug/L	95
54) Bromodichloromethane	6.363	83	181130	36.632	ug/L	99
57) 1,4-Dioxane	6.572	88	45919	1616.681	ug/L #	82
58) cis-1,3-Dichloropropene	7.039	75	209735	39.335	ug/L	96
61) Toluene	7.291	92	314229	41.007	ug/L	99
62) 4-Methyl-2-pentanone	7.736	58	38769	34.413	ug/L	96
63) Tetrachloroethene	7.731	166	158148	44.062	ug/L	98
65) trans-1,3-Dichloropropene	7.789	75	168538	39.044	ug/L	96
68) 1,1,2-Trichloroethane	7.967	83	82975	38.774	ug/L	99
69) Chlorodibromomethane	8.171	129	129600	40.760	ug/L	99
70) 1,3-Dichloropropane	8.282	76	165176	39.311	ug/L	99
71) 1,2-Dibromoethane	8.439	107	99318	34.579	ug/L	100
72) 2-Hexanone	8.738	43	67716	31.427	ug/L	98
73) Chlorobenzene	9.079	112	357211	40.444	ug/L	99
74) Ethylbenzene	9.115	91	613371	41.060	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.168	131	128294	39.883	ug/L	99
76) p/m Xylene	9.304	106	476045	86.446	ug/L	98
77) o Xylene	9.844	106	457229	77.850	ug/L	99
78) Styrene	9.923	104	756352	81.184	ug/L	99
80) Bromoform	9.949	173	73832	33.355	ug/L	99
82) Isopropylbenzene	10.253	105	617038	39.164	ug/L	99
84) Bromobenzene	10.709	156	160022	41.835	ug/L	99
85) n-Propylbenzene	10.756	91	729763	41.301	ug/L	99
87) 1,1,2,2-Tetrachloroethane	10.872	83	110472	33.685	ug/L	99
88) 4-Ethyltoluene	10.893	105	588665	38.718	ug/L	99
89) 2-Chlorotoluene	10.929	91	411479	38.859	ug/L	99
90) 1,3,5-Trimethylbenzene	10.997	105	466924	36.123	ug/L	98
91) 1,2,3-Trichloropropane	11.008	75	81118	31.950	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.071	53	35407	30.178	ug/L	95
93) 4-Chlorotoluene	11.123	91	422750	38.443	ug/L	99
94) tert-Butylbenzene	11.343	119	446129	40.824	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N02.D
 Acq On : 4 Nov 2021 6:25 pm
 Operator : VOA104:AJK
 Sample : WG1567587-4,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 19:05:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2021\211104N\V04211104N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	11.427	105	469009	36.311	ug/L	99
98)	sec-Butylbenzene	11.543	105	684929	39.968	ug/L	99
99)	p-Isopropyltoluene	11.705	119	562575	40.509	ug/L	99
100)	1,3-Dichlorobenzene	11.768	146	303289	40.237	ug/L	99
101)	1,4-Dichlorobenzene	11.868	146	301174	39.104	ug/L	99
102)	p-Diethylbenzene	12.088	119	344580	42.175	ug/L	99
103)	n-Butylbenzene	12.146	91	503985	40.847	ug/L	99
104)	1,2-Dichlorobenzene	12.298	146	279931	39.381	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.895	119	553314	41.705	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.095	155	19332	35.375	ug/L	97
108)	Hexachlorobutadiene	13.698	225	114098	37.403	ug/L	100
109)	1,2,4-Trichlorobenzene	13.724	180	206185	41.798	ug/L	100
110)	Naphthalene	14.017	128	384877	36.665	ug/L	100
111)	1,2,3-Trichlorobenzene	14.190	180	179536	39.961	ug/L	100

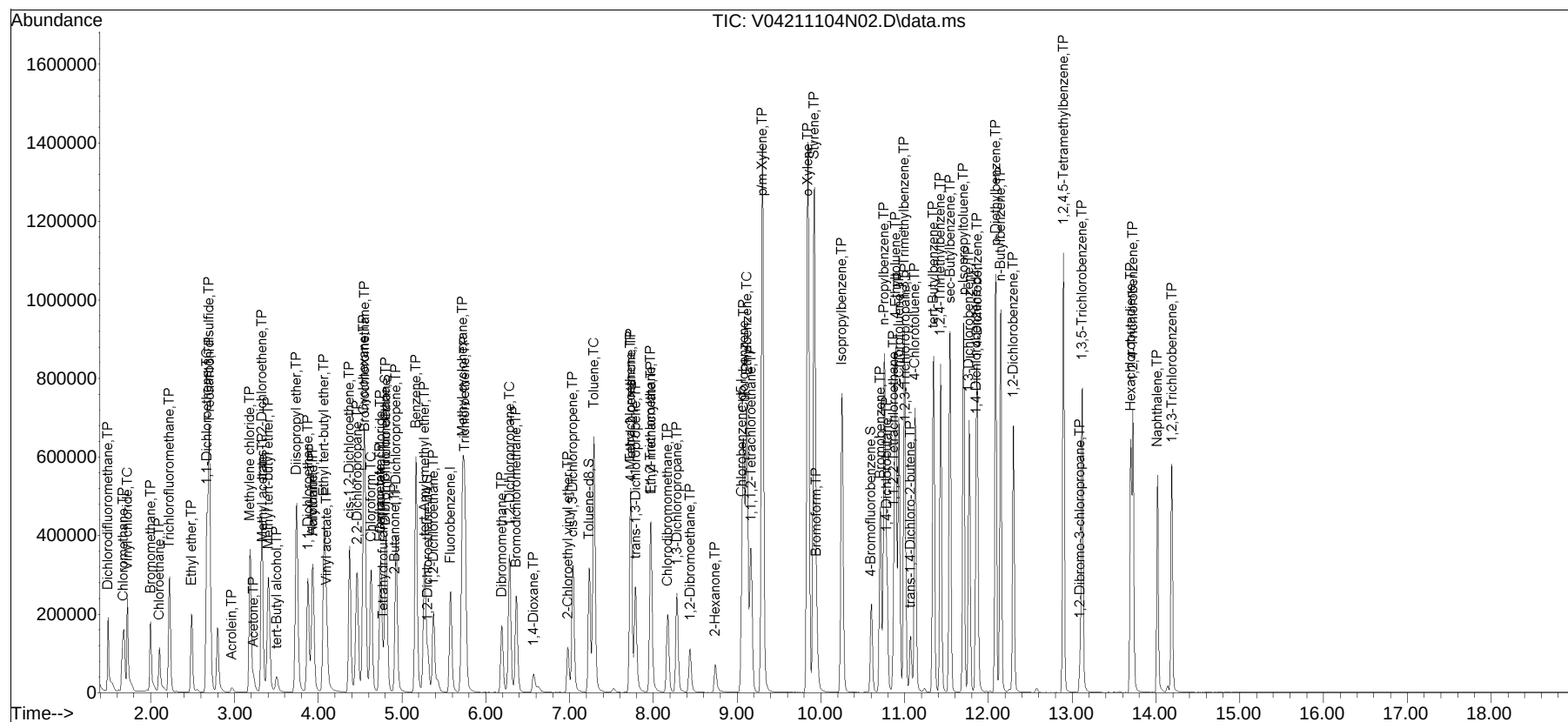
(#) = qualifier out of range (m) = manual integration (+) = signals summed

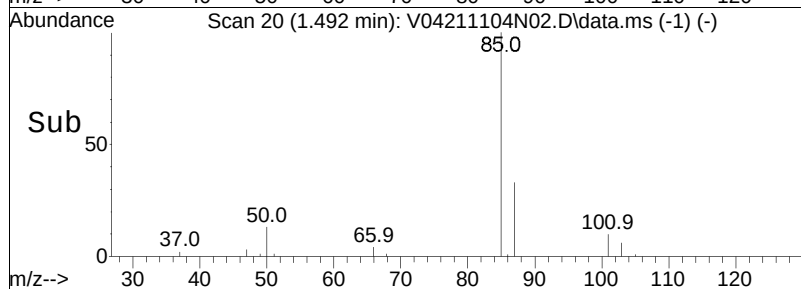
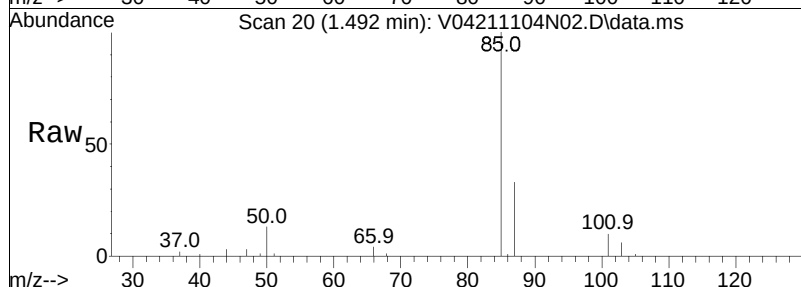
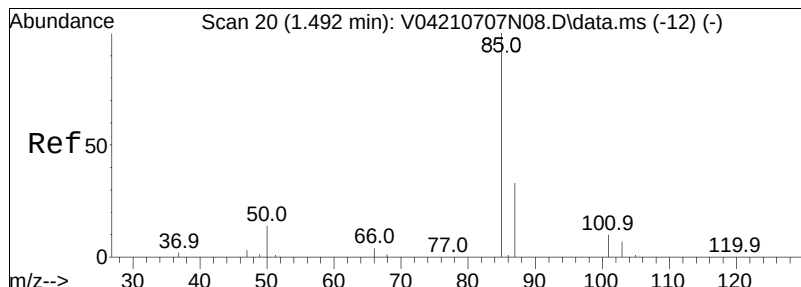
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2021\211104N\
 Data File : V04211104N02.D
 Acq On : 4 Nov 2021 6:25 pm
 Operator : VOA104:AJK
 Sample : WG1567587-4,31,5,5
 Misc : WG1567587,ICAL18128
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 19:05:16 2021
 Quant Method : I:\VOLATILES\VOA104\2021\211104N\V104_210707N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Jul 08 11:04:08 2021
 Response via : Initial Calibration

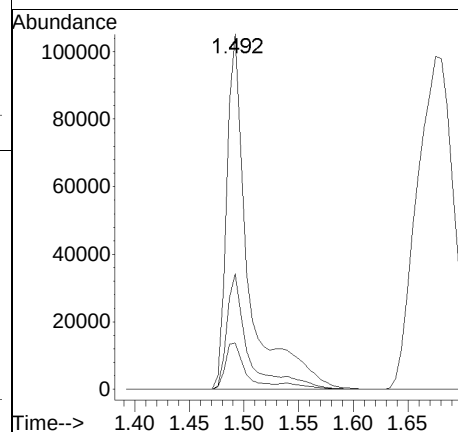
Sub List : 8260-CurveSoil - Megamix plus Diox4N\V04211104N01.D•

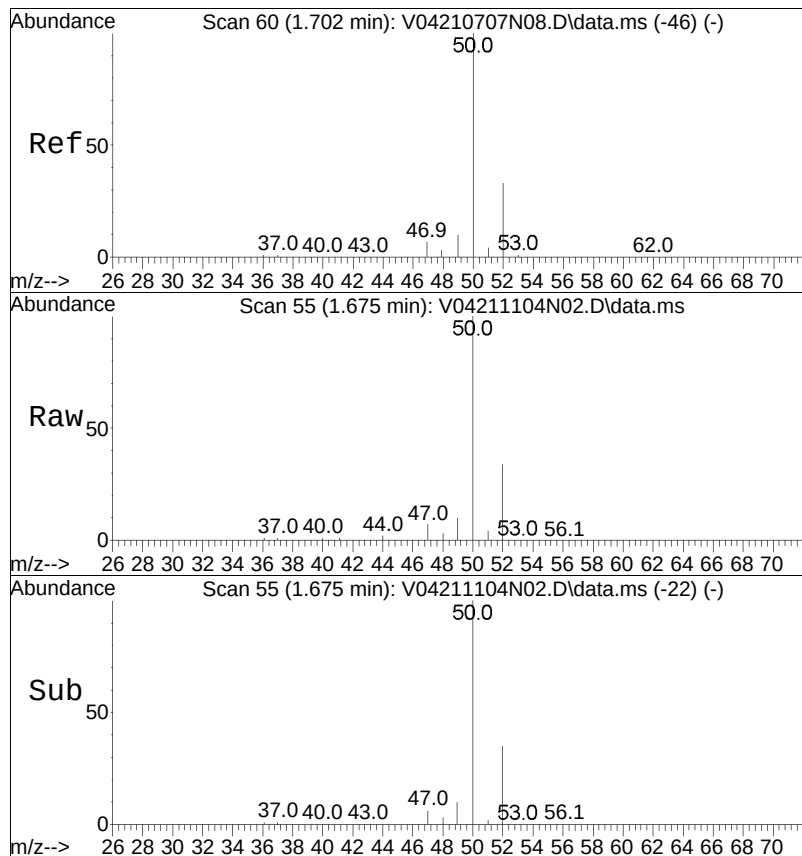




#2
Dichlorodifluoromethane
Concen: 39.66 ug/L
RT: 1.492 min Scan# 20
Delta R.T. -0.000 min
Lab File: V04211104N02.D
Acq: 4 Nov 2021 6:25 pm

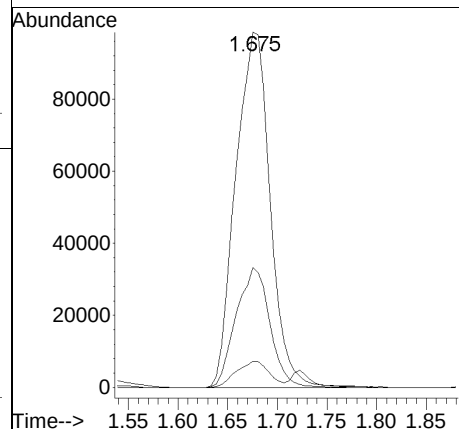
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	147877		
87	32.1	20.9	43.5	
50	11.9	8.1	16.9	

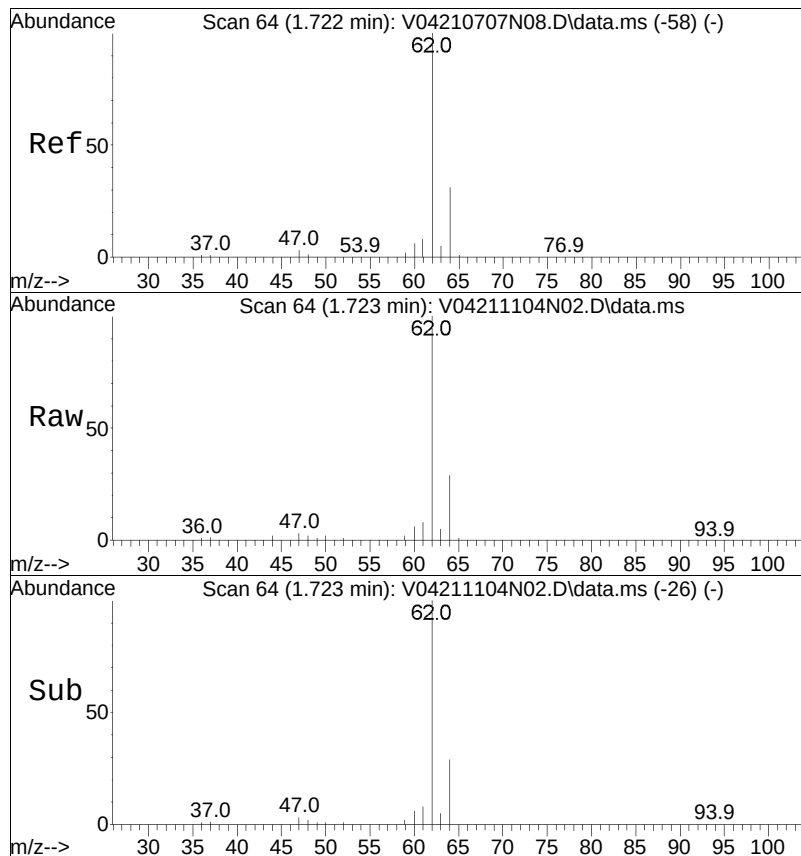




#3
 Chloromethane
 Concen: 47.82 ug/L
 RT: 1.675 min Scan# 55
 Delta R.T. -0.027 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

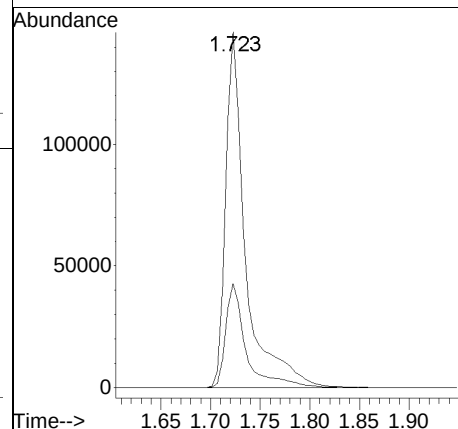
Tgt Ion:	50	Resp:	237325
Ion Ratio	Lower	Upper	
50	100		
52	33.1	13.0	53.0
47	7.1	0.0	28.2

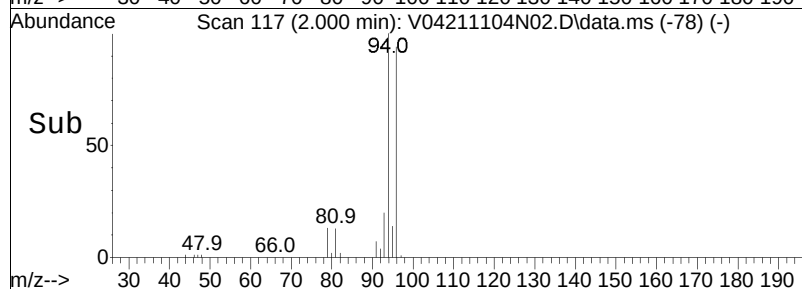
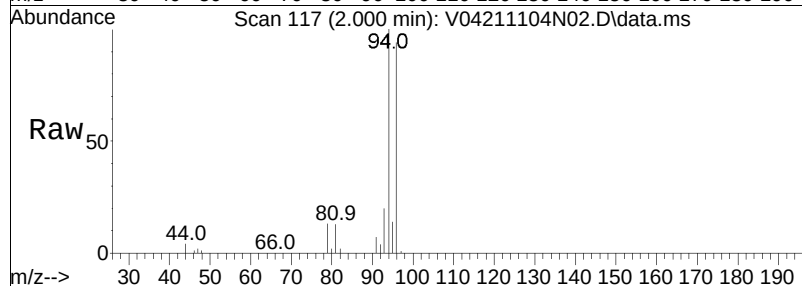
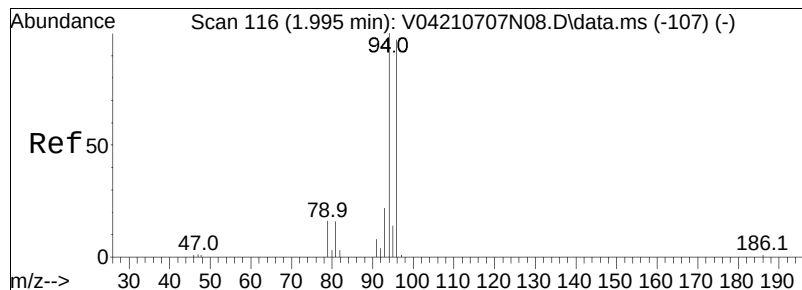




#4
 Vinyl chloride
 Concen: 49.41 ug/L
 RT: 1.723 min Scan# 64
 Delta R.T. 0.001 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

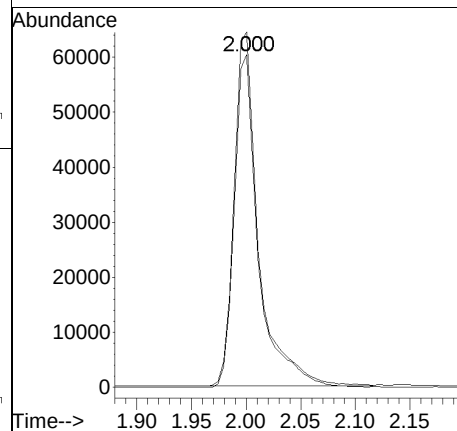
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.8	11.6	51.6

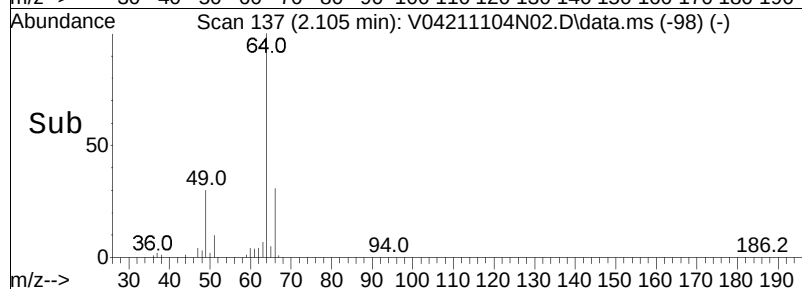
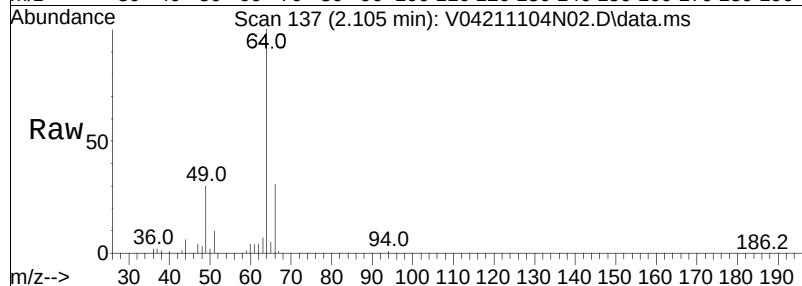
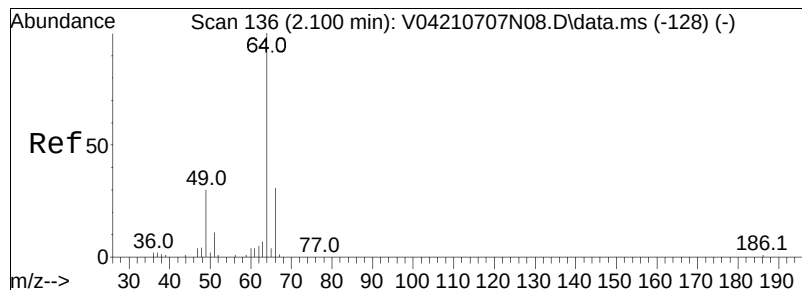




#5
 Bromomethane
 Concen: 54.82 ug/L
 RT: 2.000 min Scan# 117
 Delta R.T. 0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

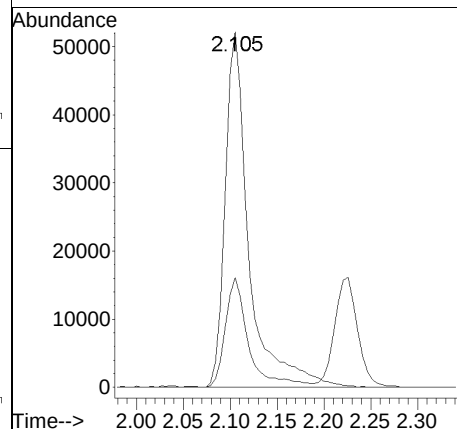
Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.0	71.0	111.0

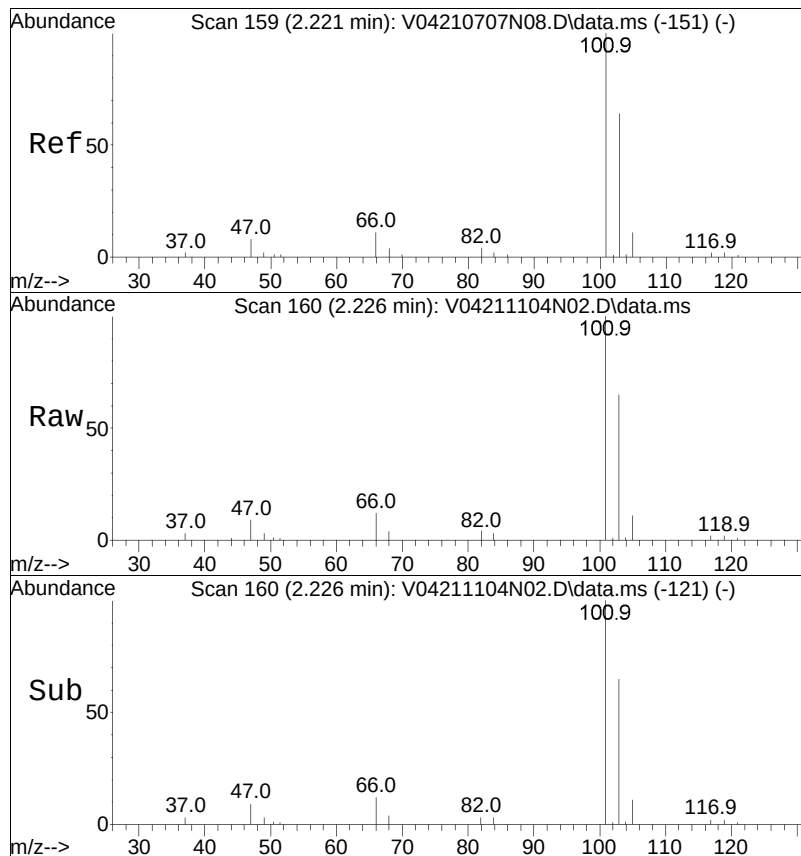




#6
 Chloroethane
 Concen: 54.18 ug/L
 RT: 2.105 min Scan# 137
 Delta R.T. 0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

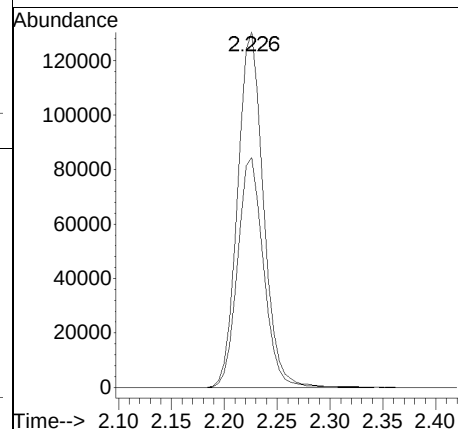
Tgt	Ion	Ratio	Lower	Upper
64	100			
66	30.4	13.7	53.7	

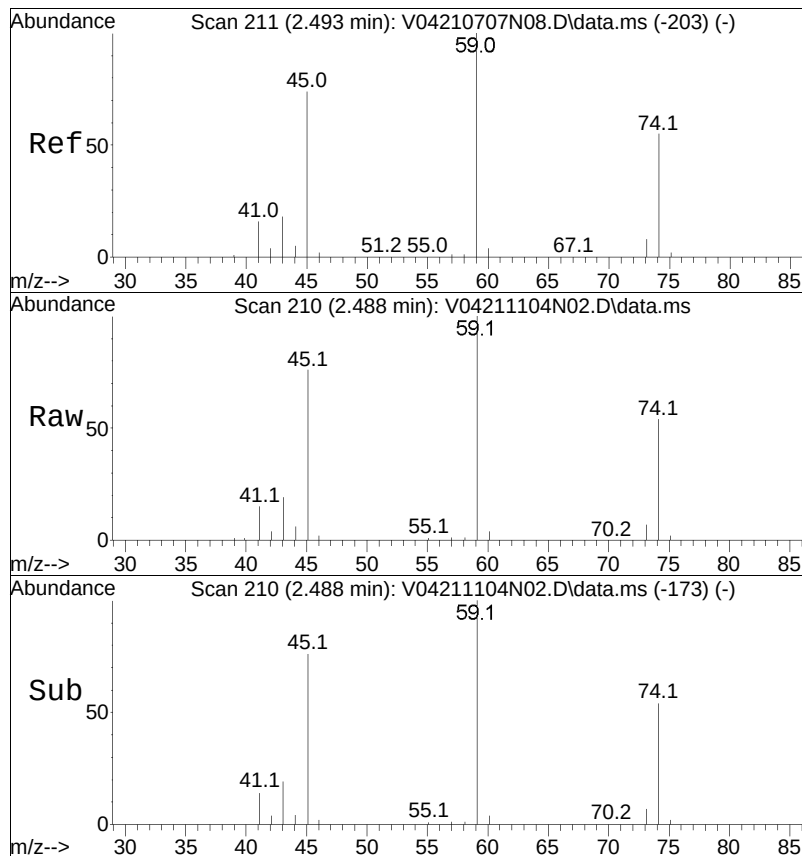




#7
 Trichlorofluoromethane
 Concen: 41.33 ug/L
 RT: 2.226 min Scan# 160
 Delta R.T. 0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

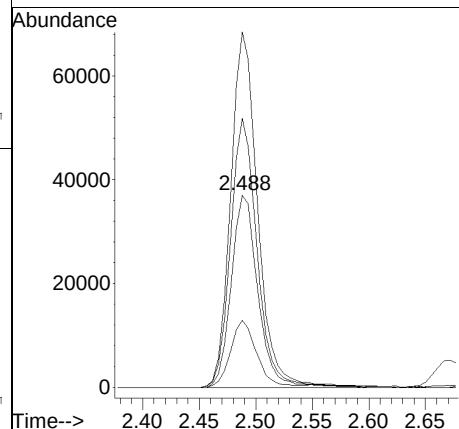
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	64.9	51.7	77.5

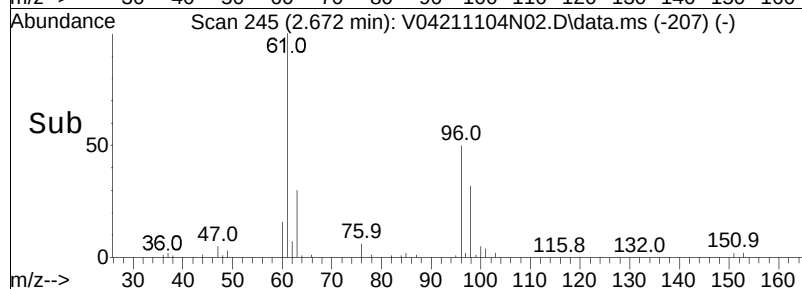
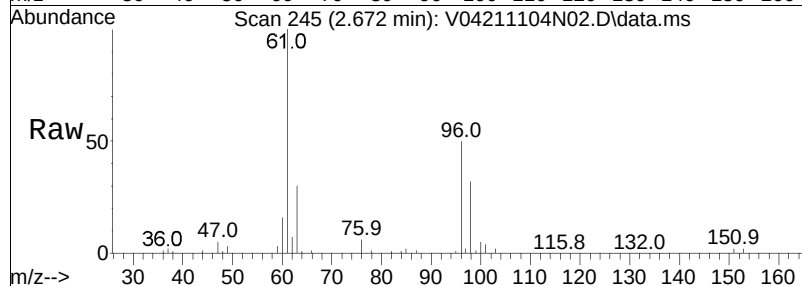
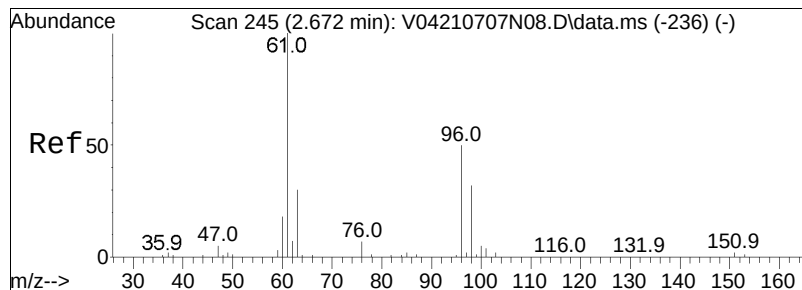




#8
 Ethyl ether
 Concen: 32.78 ug/L
 RT: 2.488 min Scan# 210
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

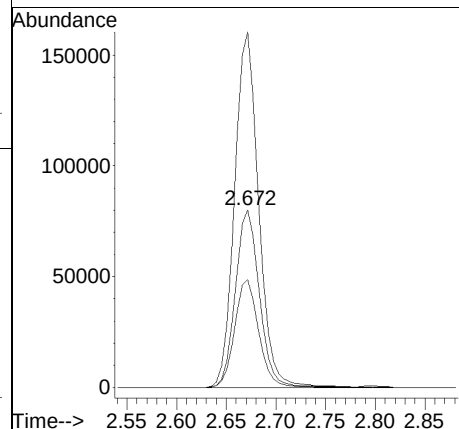
Tgt Ion:	74	Resp:	61029
Ion Ratio	Lower	Upper	
74	100		
59	187.3	104.7	217.4
45	139.8	77.2	160.4
43	34.1	21.2	44.0

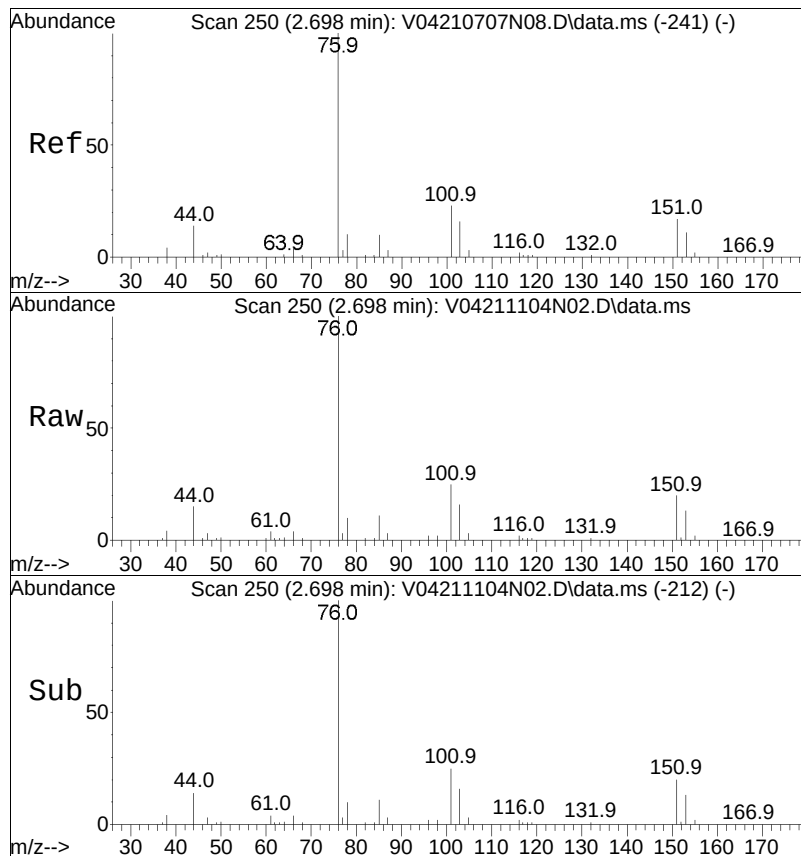




#10
 1,1-Dichloroethene
 Concen: 43.49 ug/L
 RT: 2.672 min Scan# 245
 Delta R.T. -0.001 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

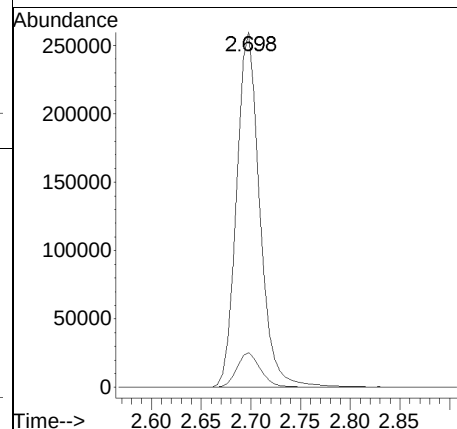
Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.2	145.8	218.6
63	60.8	46.6	69.8

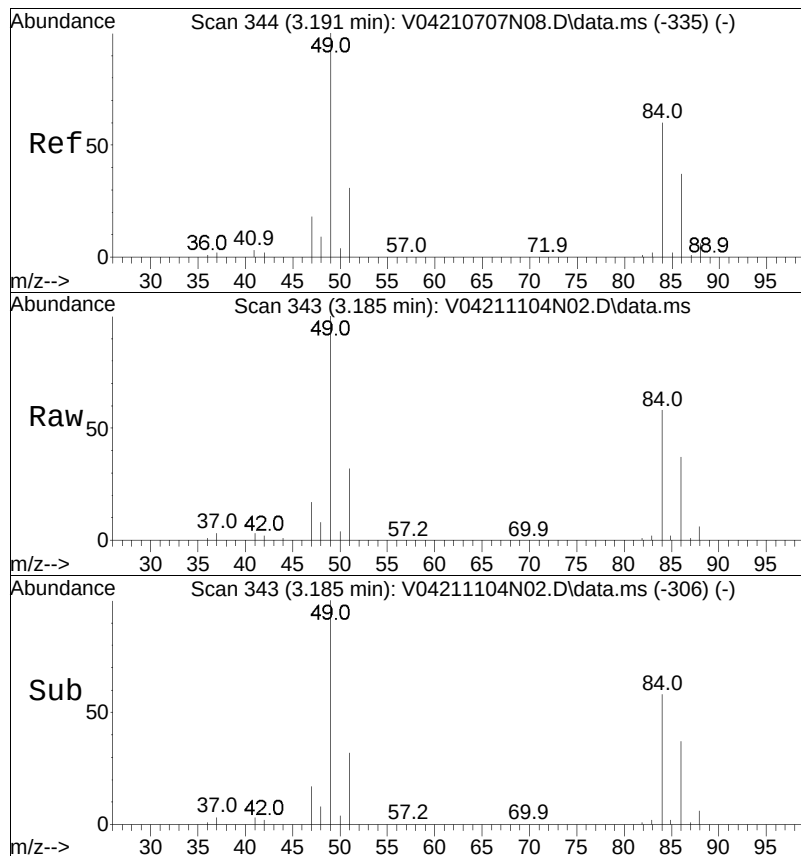




#11
 Carbon disulfide
 Concen: 36.86 ug/L
 RT: 2.698 min Scan# 250
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

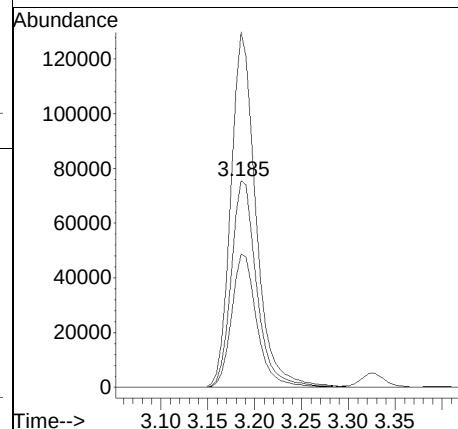
Tgt	Ion	Ratio	Lower	Upper
76	100			
78	10.1	6.6	13.8	

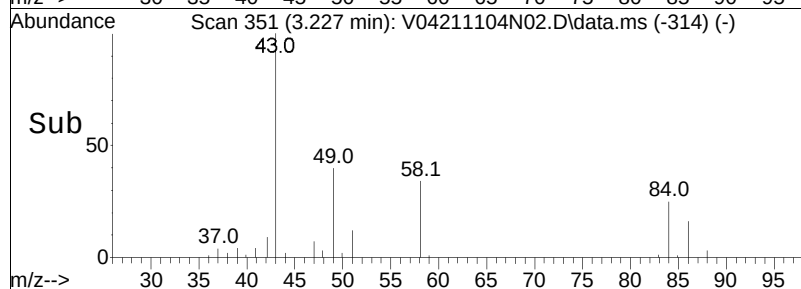
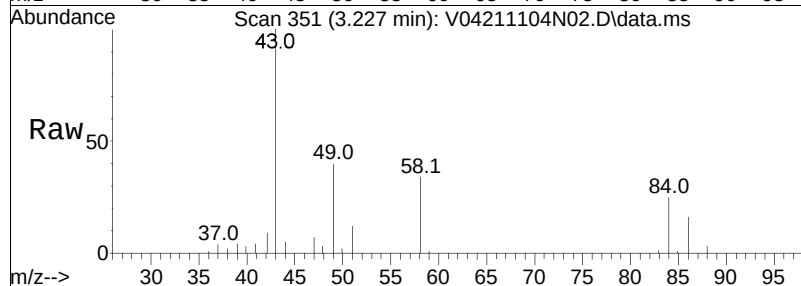
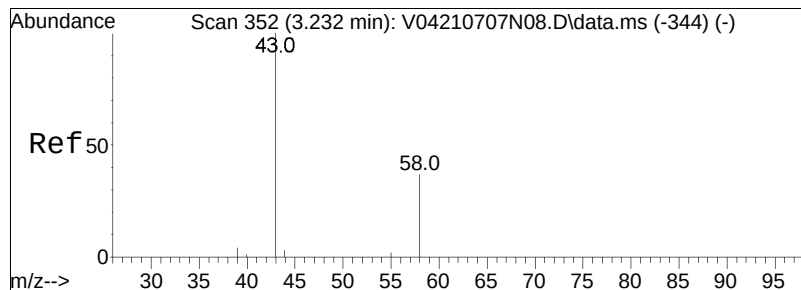




#15
 Methylene chloride
 Concen: 39.24 ug/L
 RT: 3.185 min Scan# 343
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt	Ion: 84	Resp:	143709
Ion	Ratio	Lower	Upper
84	100		
86	64.1	41.3	85.9
49	168.3	91.0	189.0





#17

Acetone

Concen: 47.90 ug/L M4

RT: 3.227 min Scan# 351

Delta R.T. -0.005 min

Lab File: V04211104N02.D

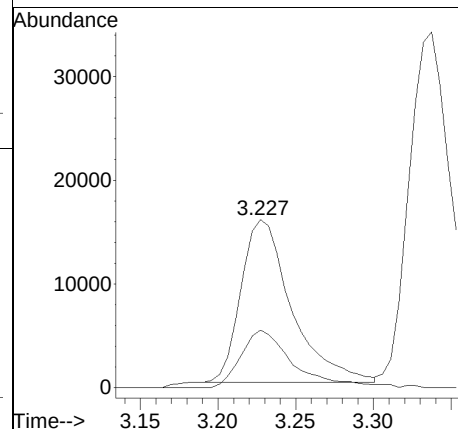
Acq: 4 Nov 2021 6:25 pm

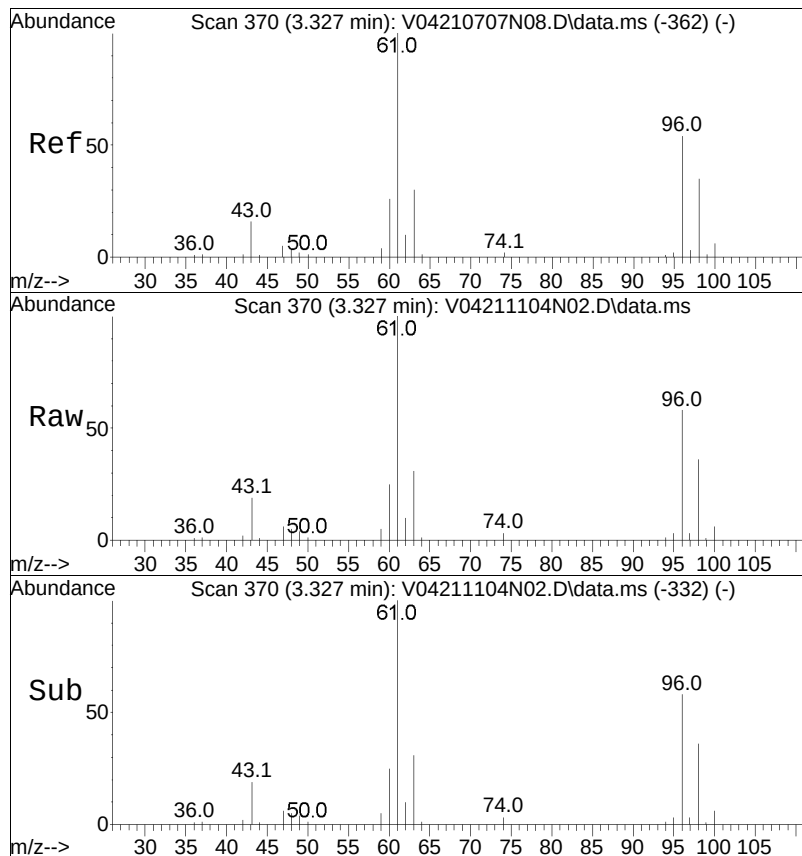
Tgt Ion: 43 Resp: 35616

Ion Ratio Lower Upper

43 100

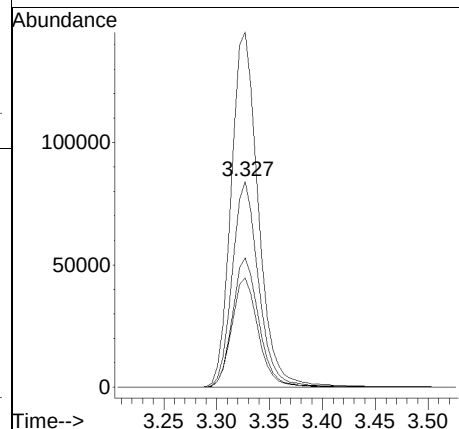
58 36.1 23.2 34.8#

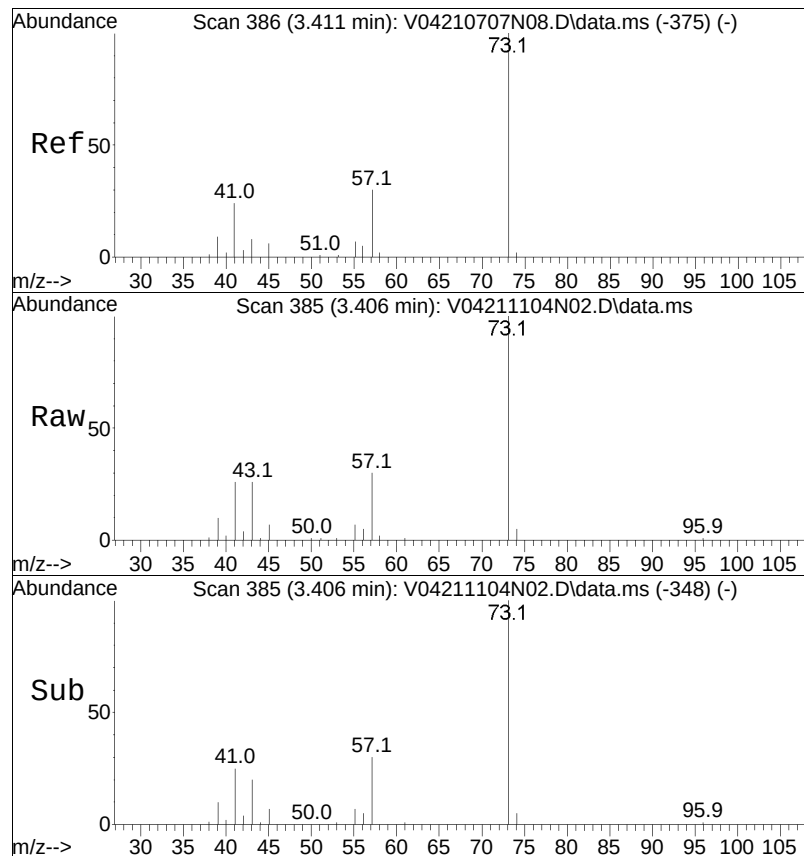




#18
 trans-1,2-Dichloroethene
 Concen: 41.93 ug/L
 RT: 3.327 min Scan# 370
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

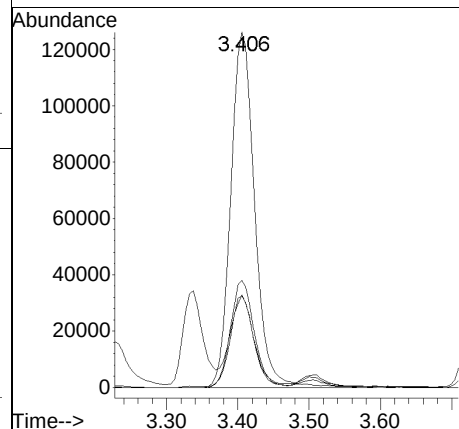
Tgt Ion:	96	Resp:	147025
Ion Ratio	Lower	Upper	
96	100		
61	177.5	103.7	215.3
98	63.3	41.0	85.0
63	53.9	32.1	66.7

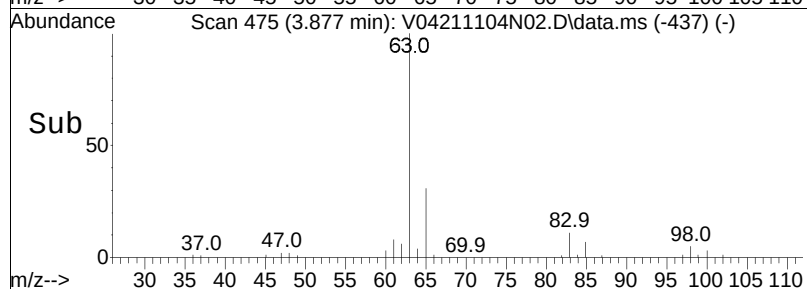
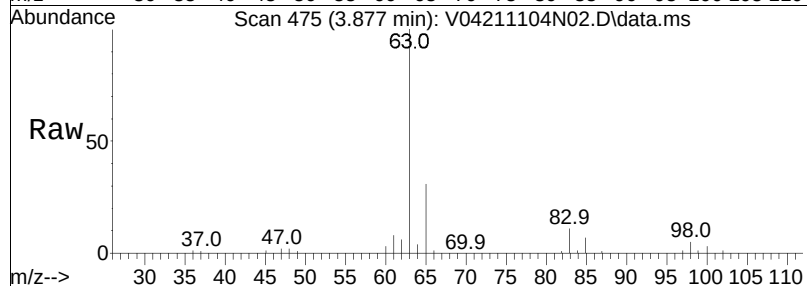
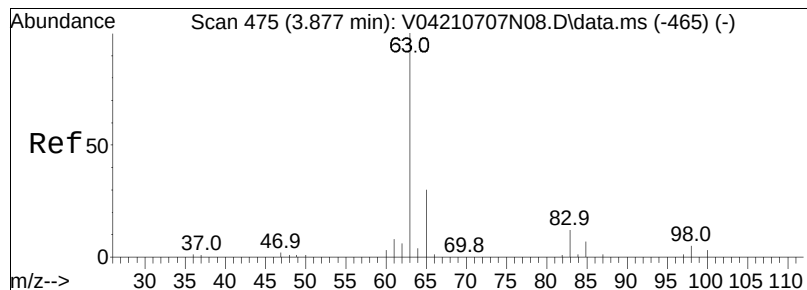




#20
Methyl tert-butyl ether
Concen: 32.78 ug/L
RT: 3.406 min Scan# 385
Delta R.T. -0.005 min
Lab File: V04211104N02.D
Acq: 4 Nov 2021 6:25 pm

Tgt Ion:	73	Resp:	294368
Ion	Ratio	Lower	Upper
73	100		
57	29.8	16.3	33.9
43	25.4	14.7	30.5
41	24.6	15.4	32.0





#23

1,1-Dichloroethane

Concen: 39.97 ug/L

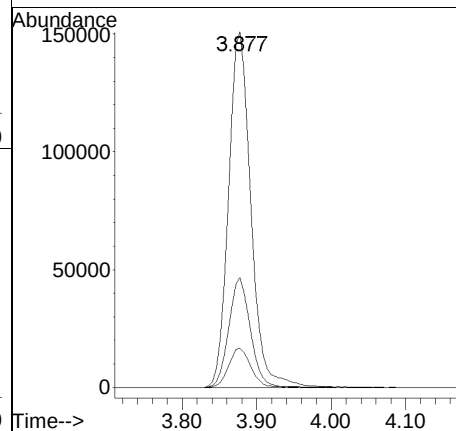
RT: 3.877 min Scan# 475

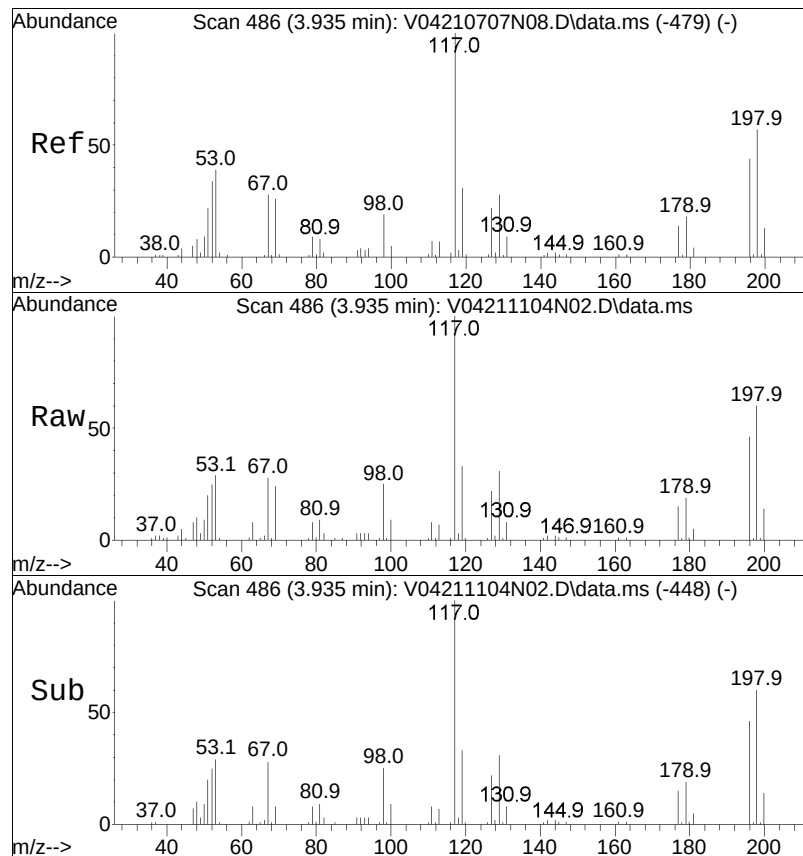
Delta R.T. 0.000 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

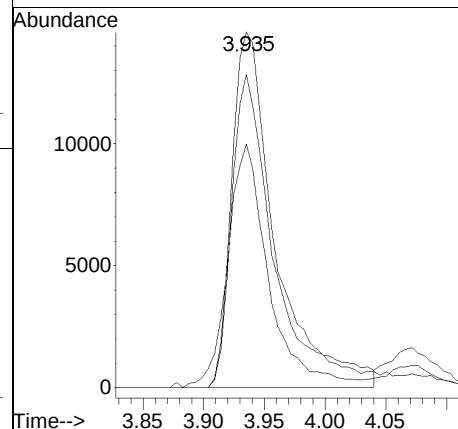
Tgt Ion:	63	Resp:	315140
Ion Ratio	Lower	Upper	
63	100		
65	29.8	10.4	50.4
83	10.9	0.0	32.2

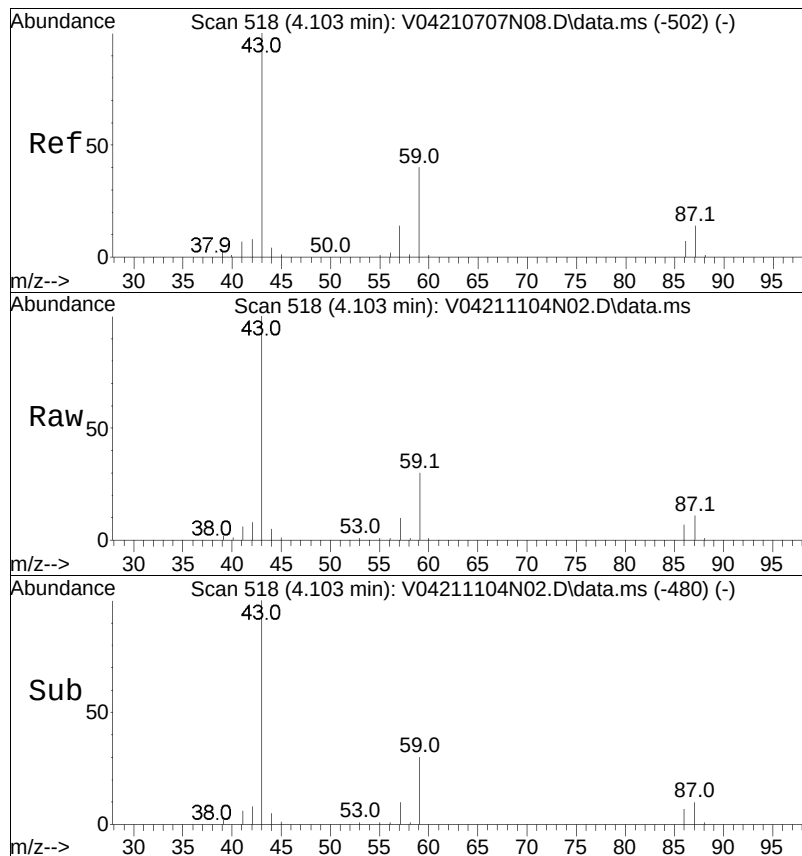




#25
 Acrylonitrile
 Concen: 30.98 ug/L
 RT: 3.935 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

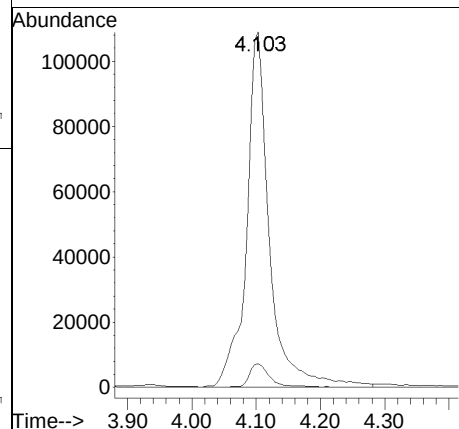
Tgt Ion	Ratio	Lower	Upper
53	100		
52	87.7	65.9	98.9
51	64.0	46.2	69.4

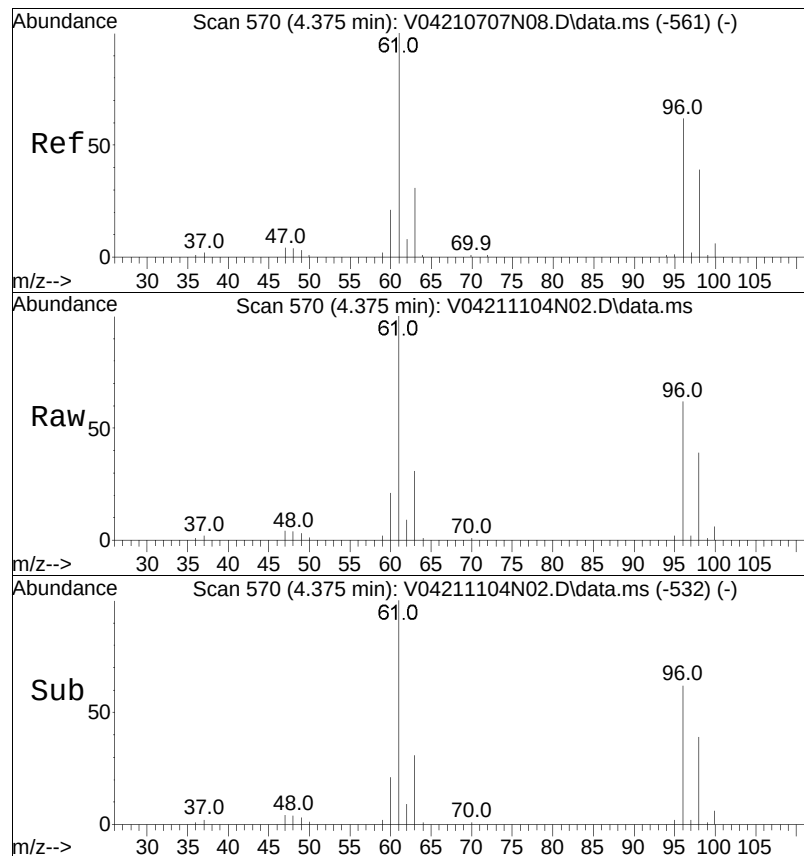




#27
 Vinyl acetate
 Concen: 34.75 ug/L
 RT: 4.103 min Scan# 518
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

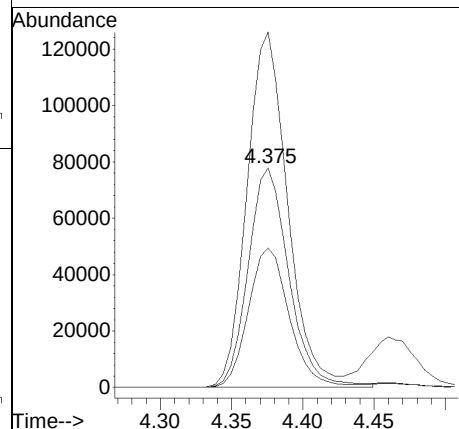
Tgt	Ion	Ratio	Lower	Upper
43	100			
86	6.0	5.4	8.2	

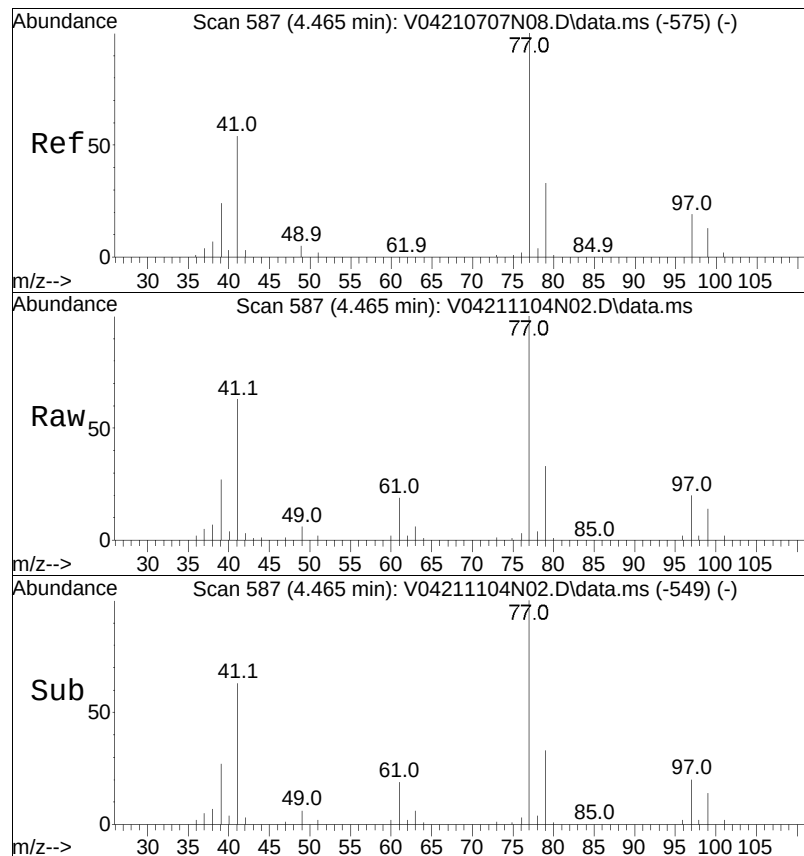




#28
 cis-1,2-Dichloroethene
 Concen: 39.43 ug/L
 RT: 4.375 min Scan# 570
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

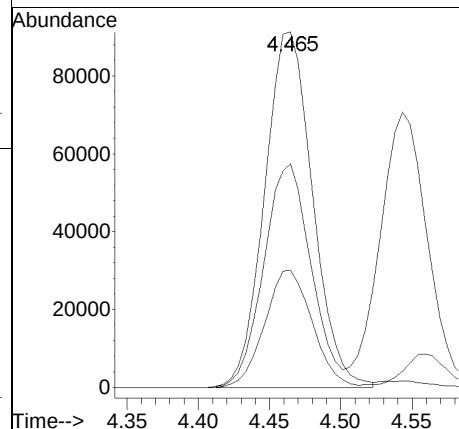
Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.9	114.4	171.6
98	64.1	51.3	76.9

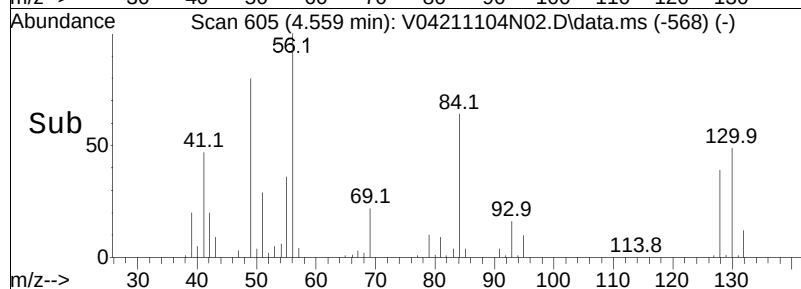
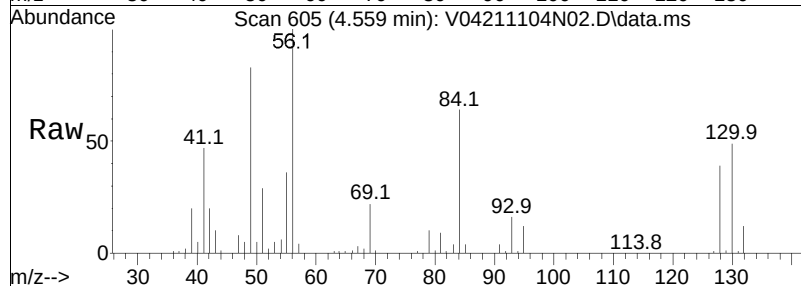
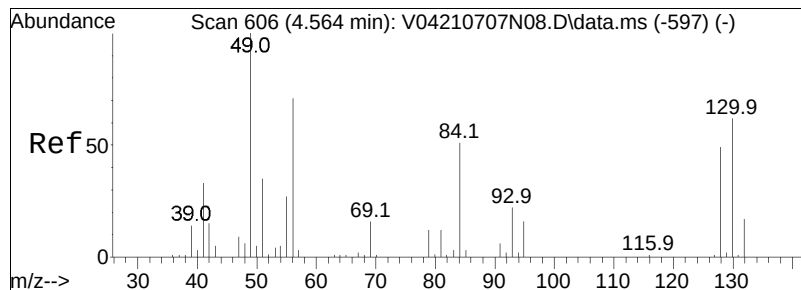




#29
 2,2-Dichloropropane
 Concen: 38.53 ug/L
 RT: 4.465 min Scan# 587
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt Ion	Ratio	Lower	Upper
77	100		
41	61.8	36.7	76.3
79	32.8	21.1	43.9





#30

Bromochloromethane

Concen: 39.45 ug/L

RT: 4.559 min Scan# 605

Delta R.T. -0.005 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

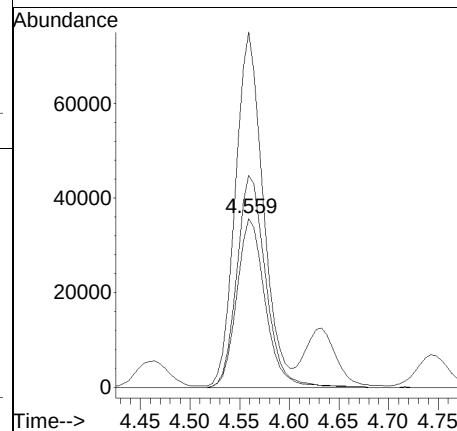
Tgt Ion:128 Resp: 71408

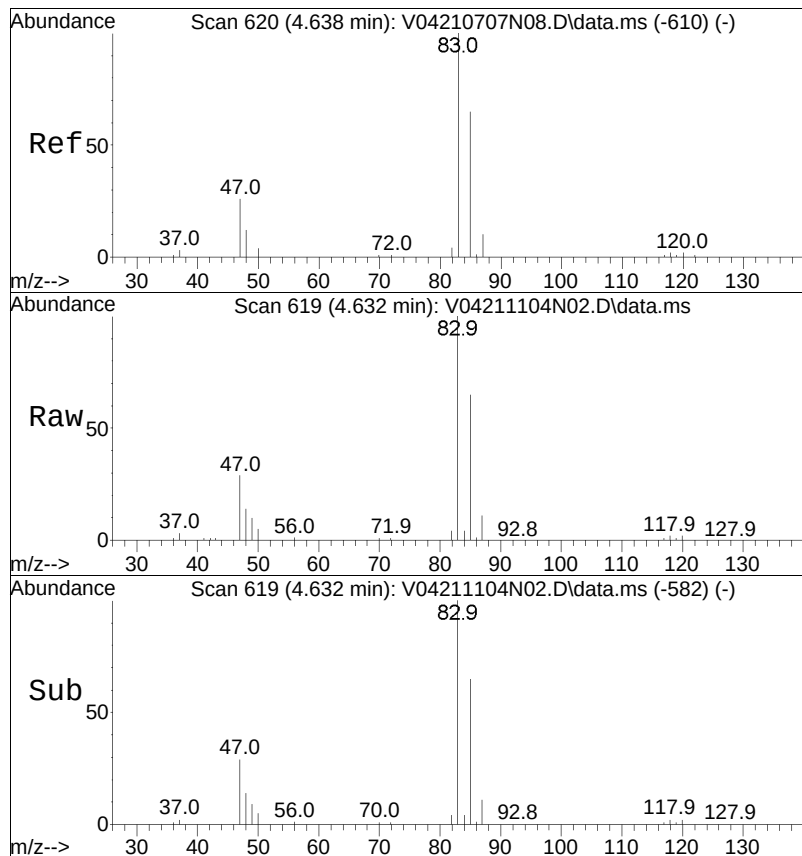
Ion Ratio Lower Upper

128 100

49 202.5 136.8 205.2

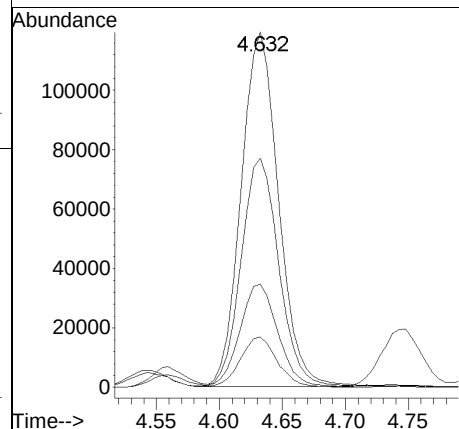
130 126.8 102.6 153.8

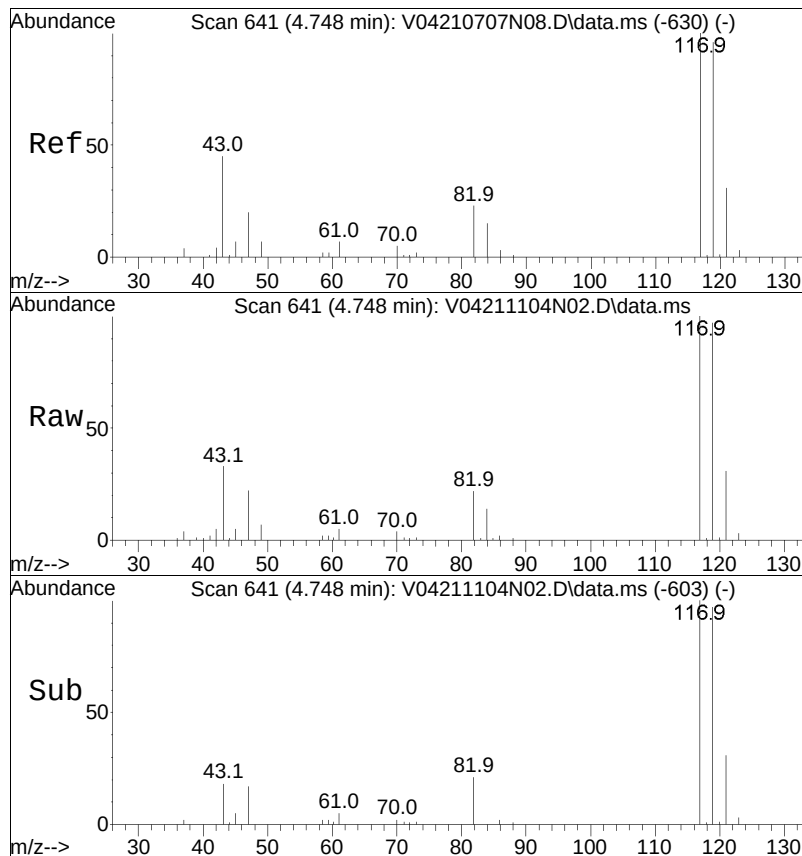




#32
 Chloroform
 Concen: 35.66 ug/L
 RT: 4.632 min Scan# 619
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

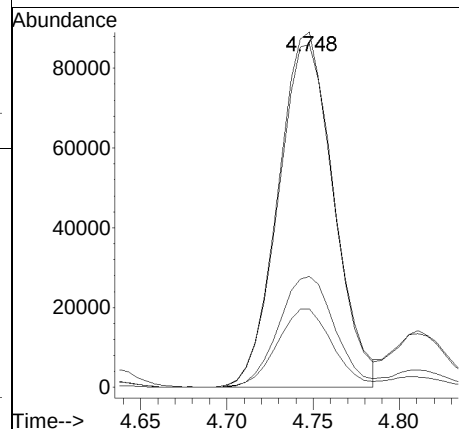
Tgt	Ion: 83	Resp:	245581
Ion	Ratio	Lower	Upper
83	100		
85	65.3	41.9	87.1
47	28.9	16.7	34.7
48	14.3	7.9	16.3

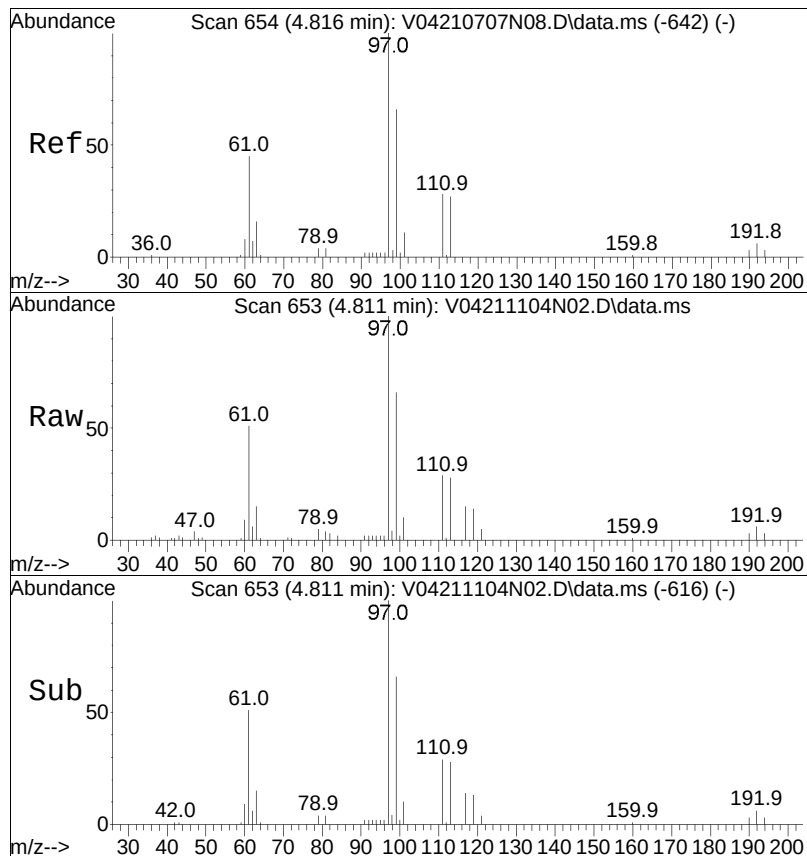




#34
 Carbon tetrachloride
 Concen: 38.80 ug/L
 RT: 4.748 min Scan# 641
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

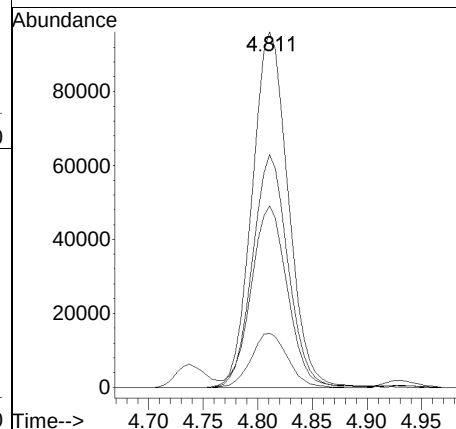
Tgt	Ion:117	Resp:	199368
Ion	Ratio	Lower	Upper
117	100		
119	96.9	62.9	130.7
121	31.6	20.2	42.0
82	22.2	14.9	30.9

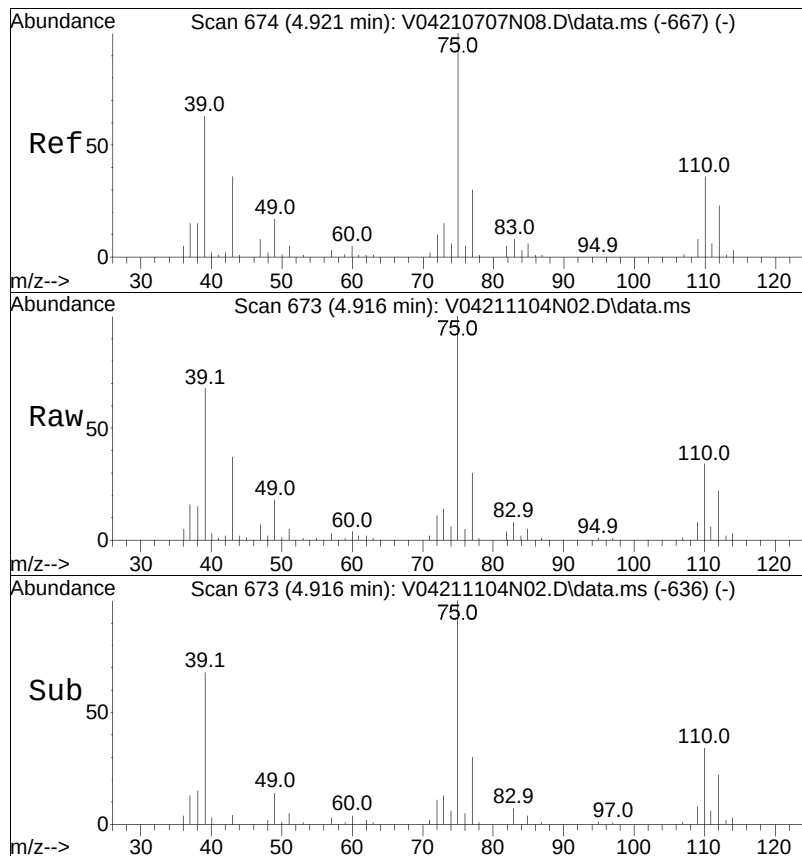




#37
 1,1,1-Trichloroethane
 Concen: 40.42 ug/L
 RT: 4.811 min Scan# 653
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

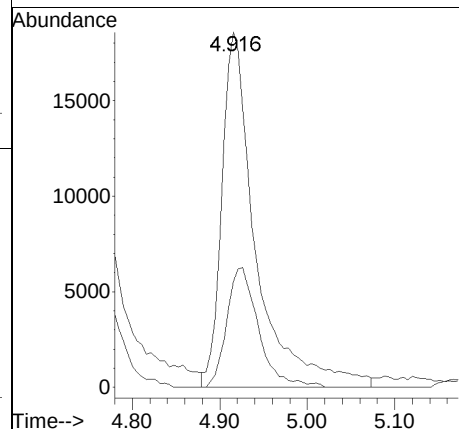
Tgt Ion:	97	Resp:	220640
Ion Ratio	Lower	Upper	
97	100		
99	64.5	41.7	86.7
61	51.6	30.9	64.3
63	15.4	9.6	20.0

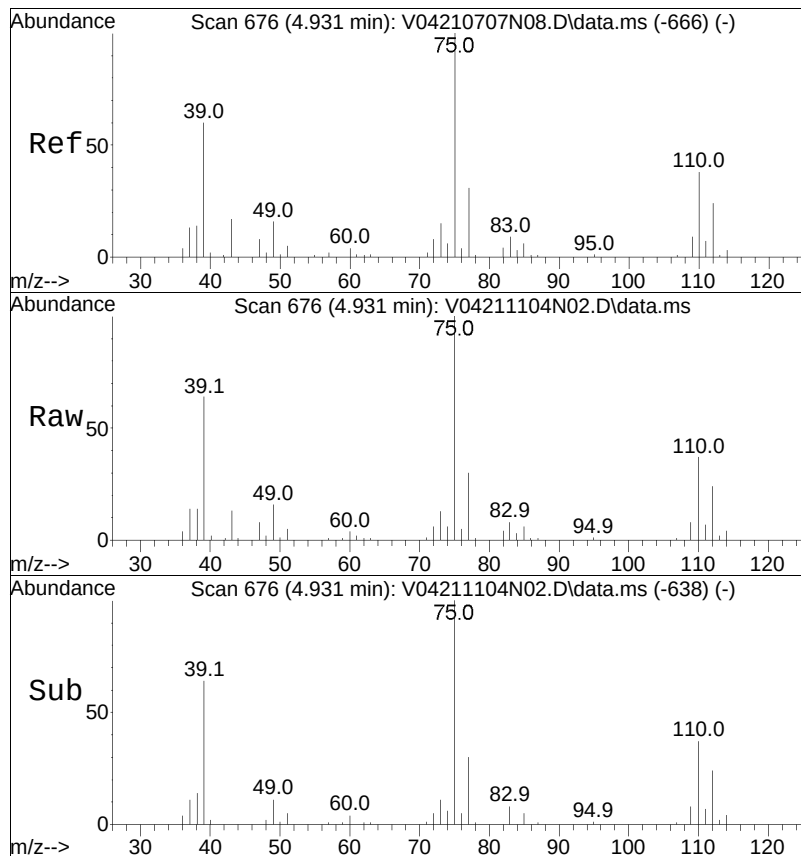




#39
 2-Butanone
 Concen: 36.41 ug/L M1
 RT: 4.916 min Scan# 673
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

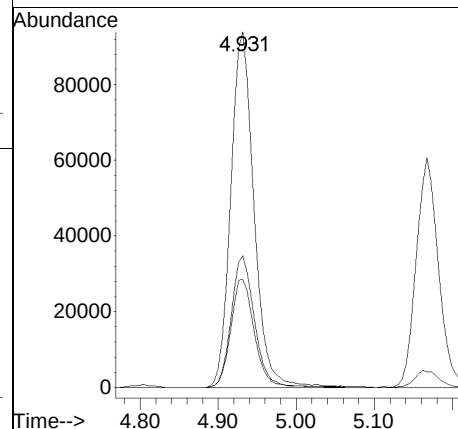
Tgt Ion:	43	72	100	Resp:	50563
Ion Ratio	100	31.4	25.8	Lower	Upper

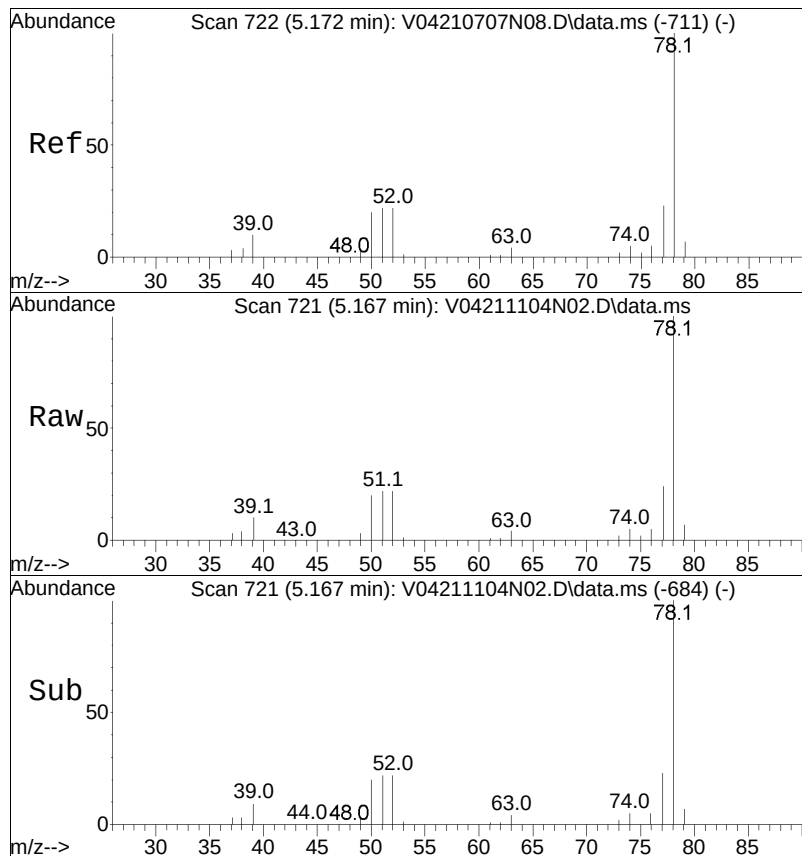




#40
 1,1-Dichloropropene
 Concen: 43.73 ug/L
 RT: 4.931 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

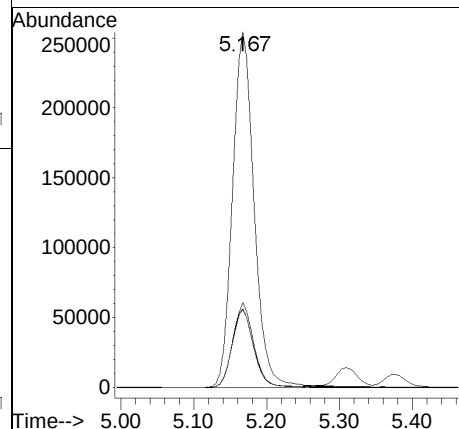
Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.8	24.4	50.6
77	30.6	20.0	41.6

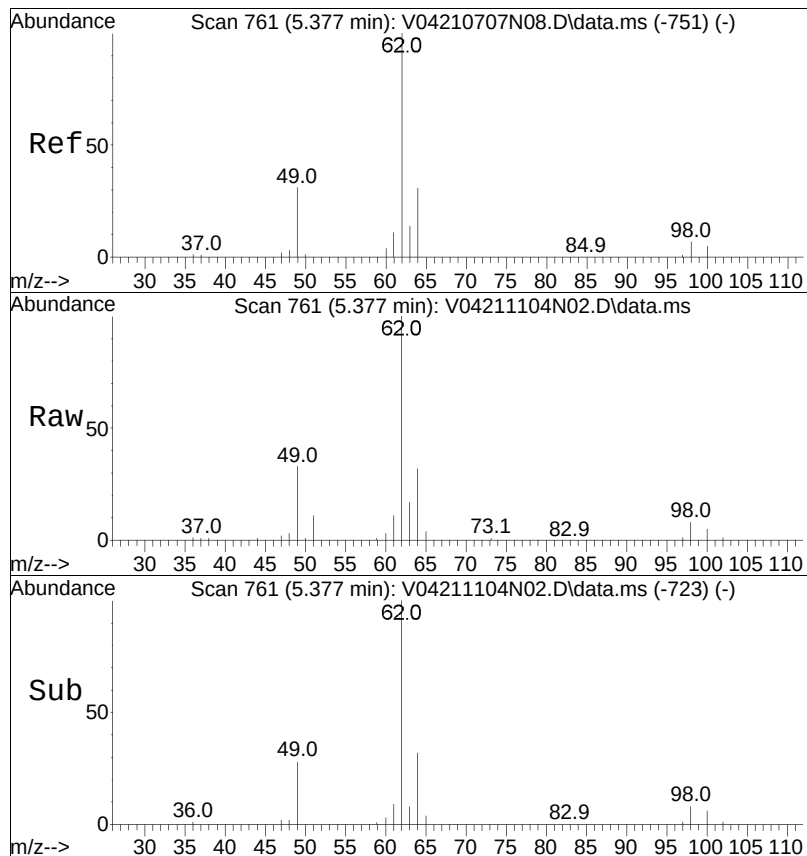




#41
Benzene
Concen: 40.32 ug/L
RT: 5.167 min Scan# 721
Delta R.T. -0.005 min
Lab File: V04211104N02.D
Acq: 4 Nov 2021 6:25 pm

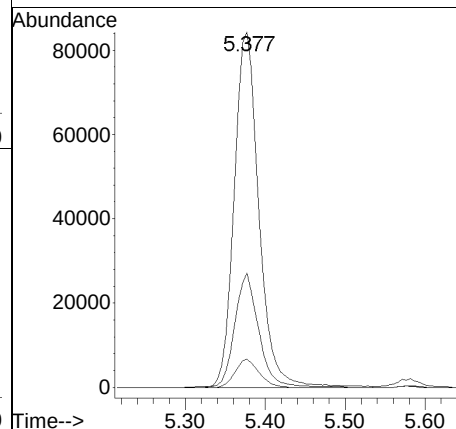
Tgt Ion:	78	Resp:	526368
Ion Ratio	Lower	Upper	
78	100		
77	23.2	15.1	31.3
51	21.6	12.2	25.4
52	21.7	11.9	24.7

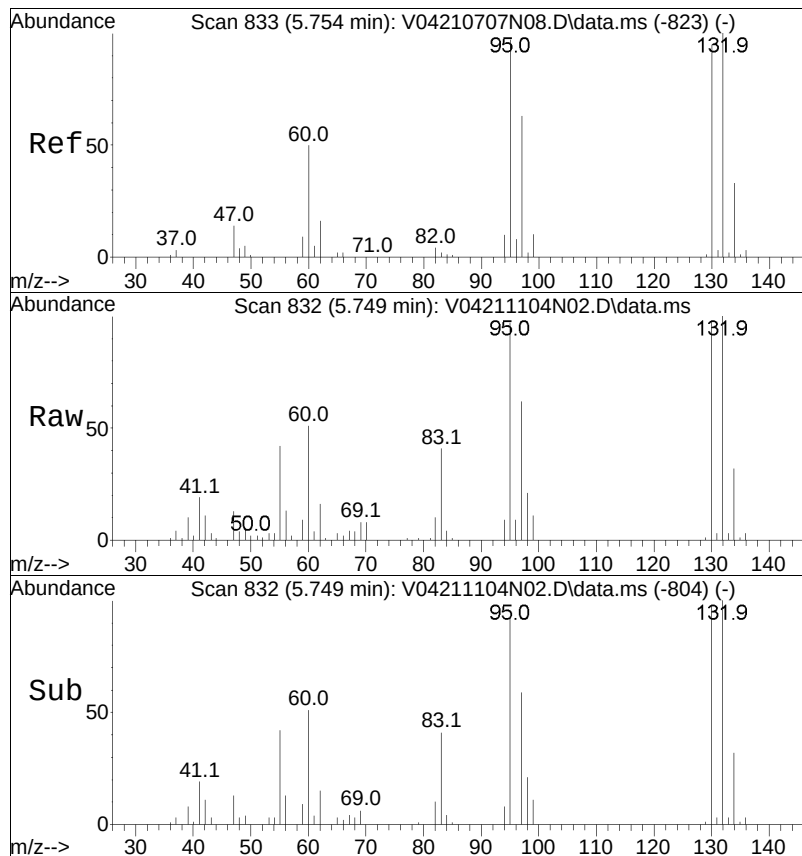




#44
 1,2-Dichloroethane
 Concen: 35.34 ug/L
 RT: 5.377 min Scan# 761
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

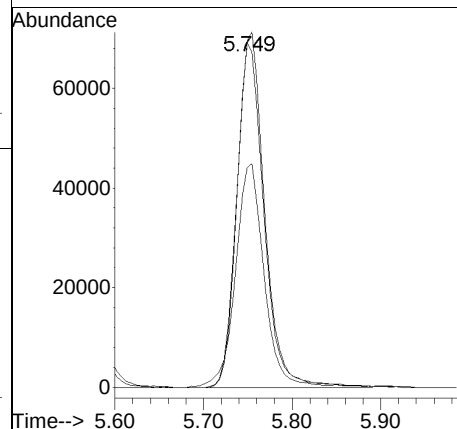
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.1	11.3	51.3
98	7.7	0.0	27.5

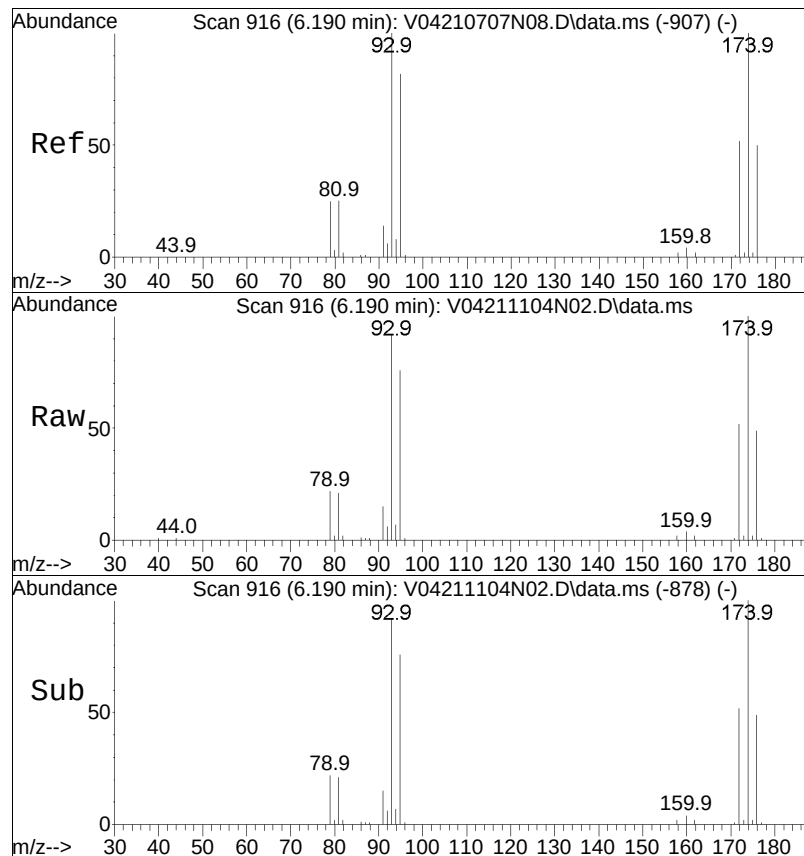




#48
 Trichloroethene
 Concen: 41.38 ug/L
 RT: 5.749 min Scan# 832
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

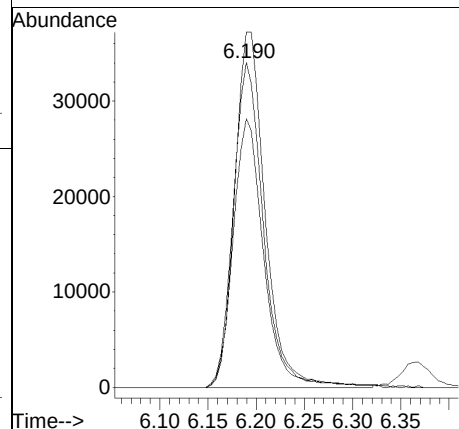
Tgt Ion:	95	Resp:	148652
Ion Ratio	Lower	Upper	
95	100		
97	67.5	53.9	80.9
130	103.1	83.1	124.7

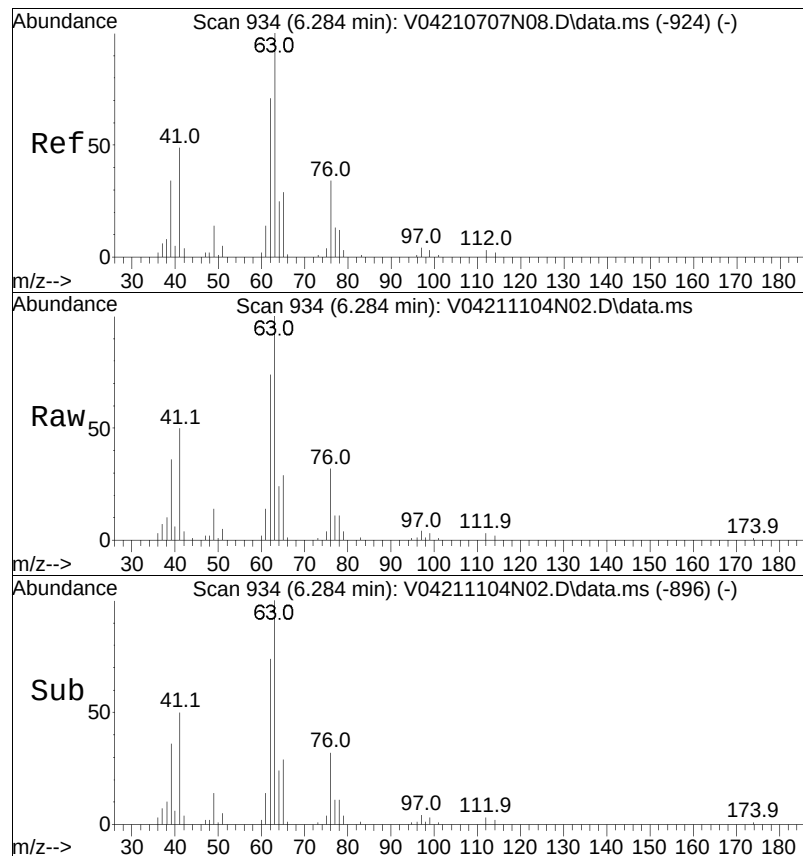




#50
 Dibromomethane
 Concen: 35.50 ug/L
 RT: 6.190 min Scan# 916
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

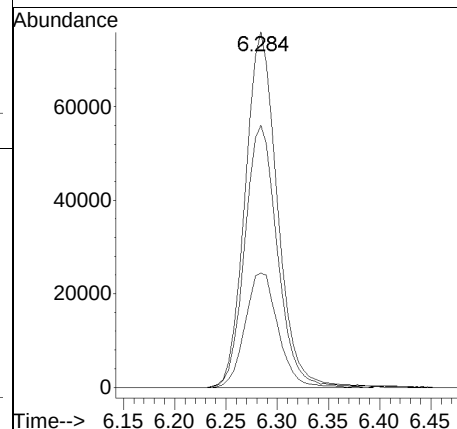
Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.0	66.3	99.5
174	111.1	87.4	131.0

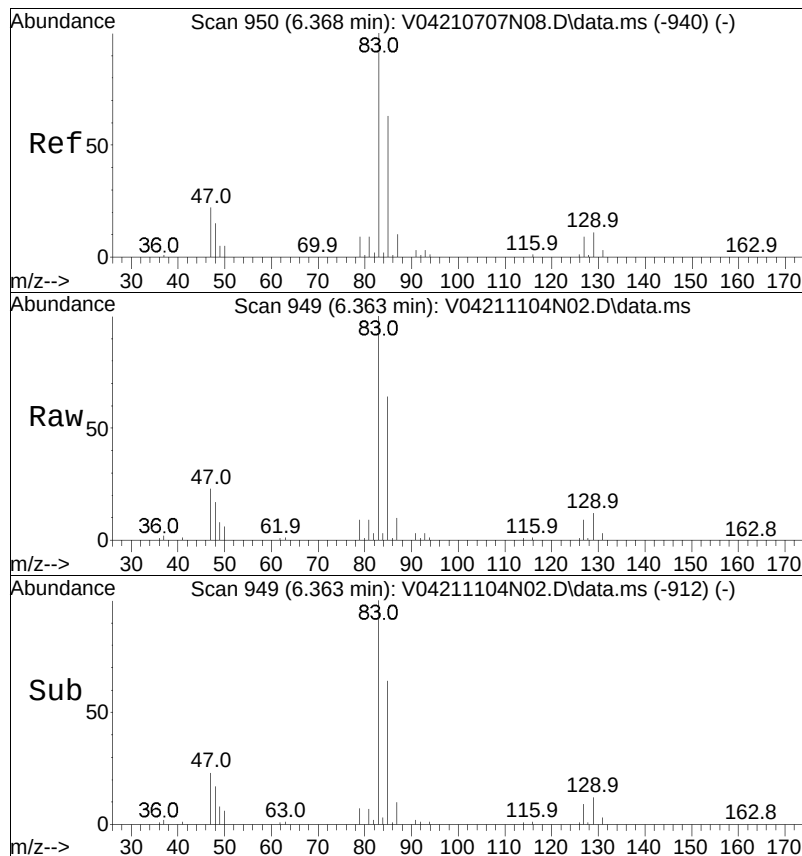




#51
 1,2-Dichloropropane
 Concen: 38.34 ug/L
 RT: 6.284 min Scan# 934
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt	Ion	Resp	Lower	Upper
63	100			
62	74.7	58.2	87.2	
76	32.9	31.4	47.2	





#54

Bromodichloromethane

Concen: 36.63 ug/L

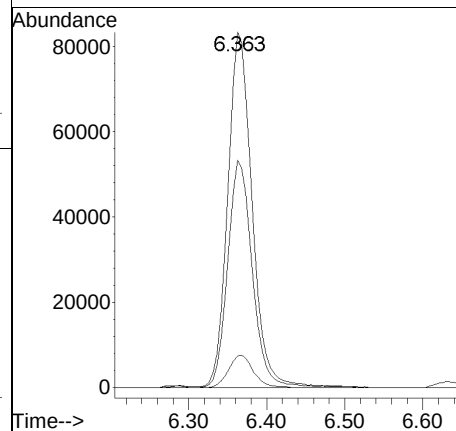
RT: 6.363 min Scan# 949

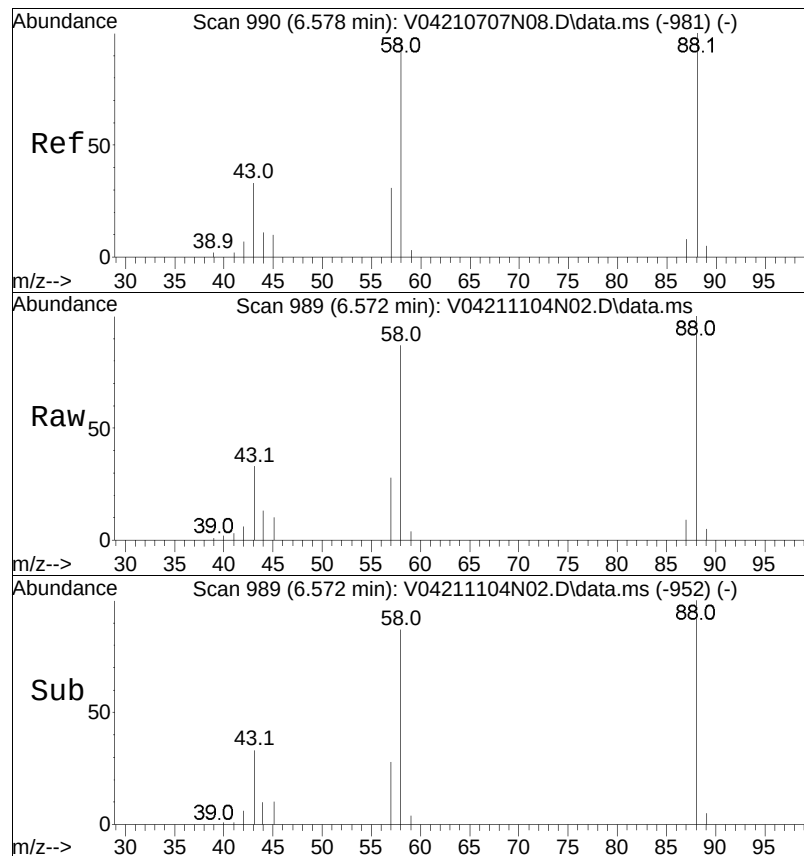
Delta R.T. -0.005 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

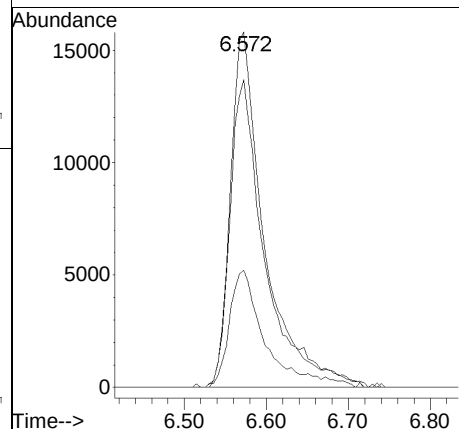
Tgt	Ion: 83	Resp:	181130
Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.2	76.8
127	9.1	7.3	10.9

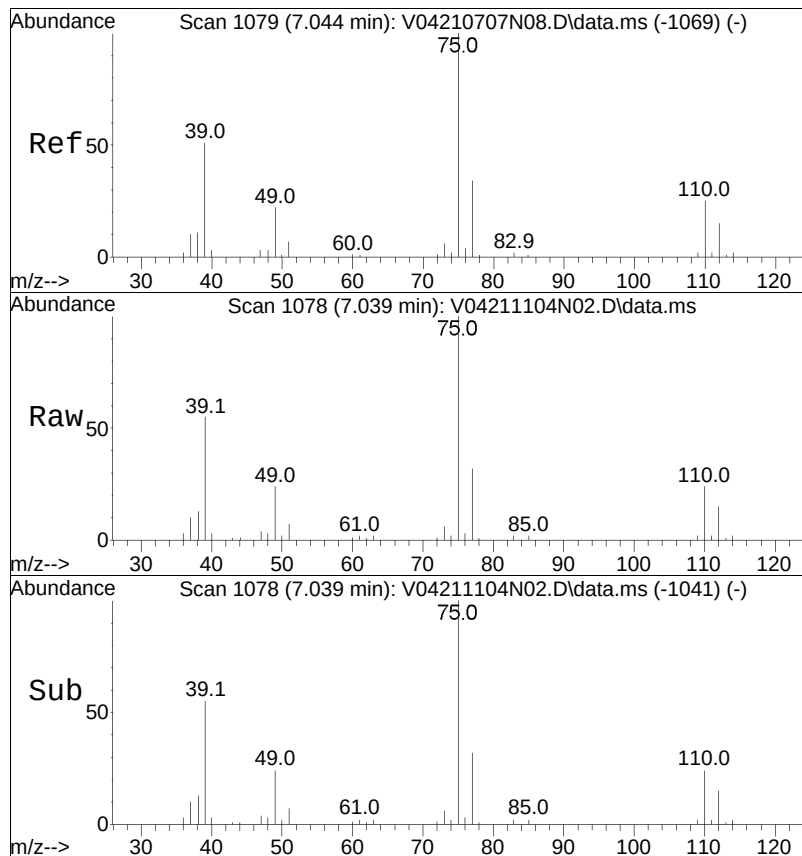




#57
 1,4-Dioxane
 Concen: 1616.68 ug/L
 RT: 6.572 min Scan# 989
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

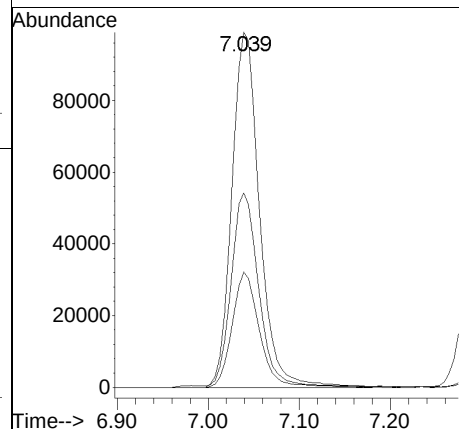
Tgt Ion:	88	Resp:	45919
Ion Ratio	Lower	Upper	
88	100		
58	88.4	57.1	85.7#
43	34.8	22.9	34.3#

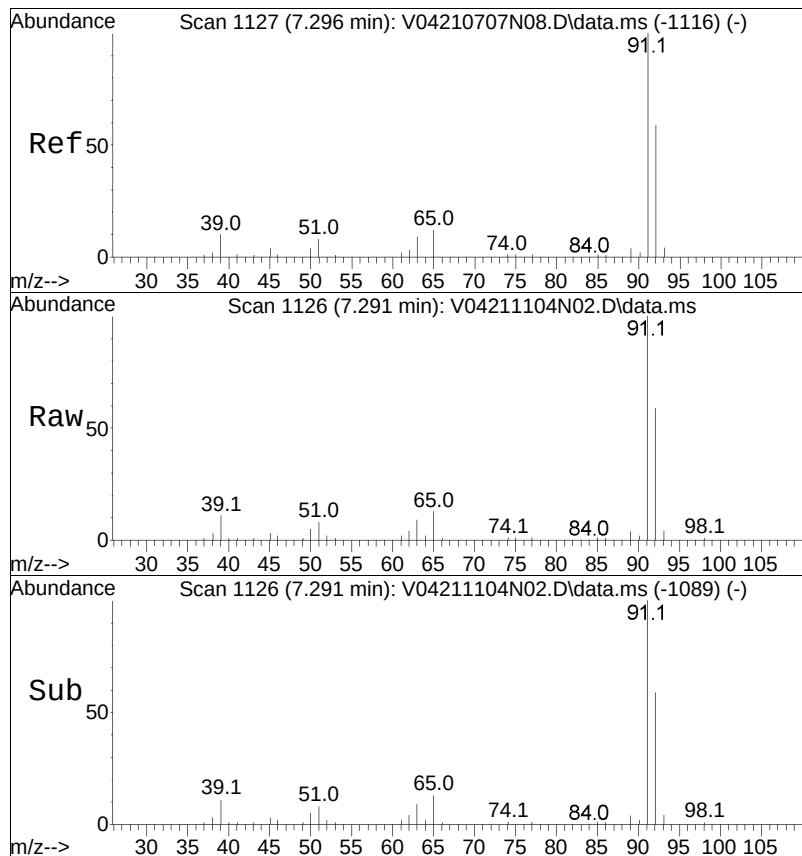




#58
 cis-1,3-Dichloropropene
 Concen: 39.33 ug/L
 RT: 7.039 min Scan# 1078
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

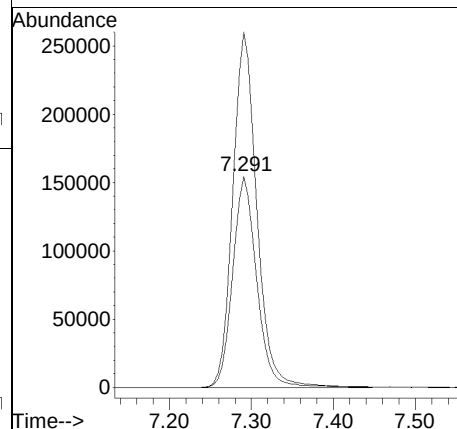
Tgt Ion:	75	Resp:	209735
Ion Ratio	Lower	Upper	
75	100		
77	31.9	25.3	37.9
39	54.1	40.2	60.2

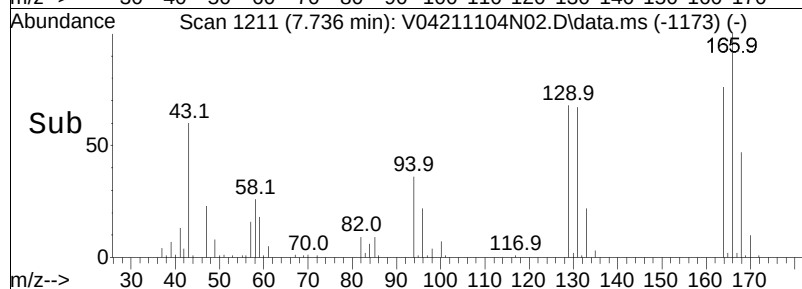
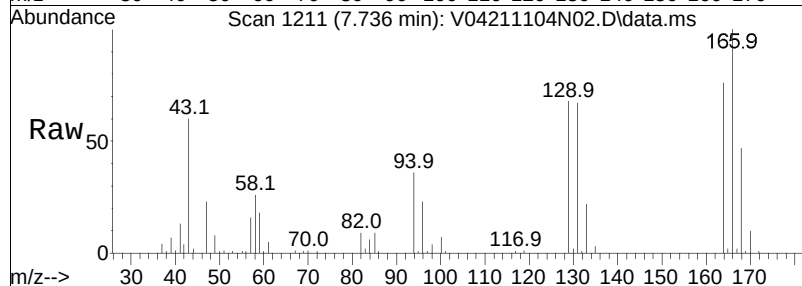
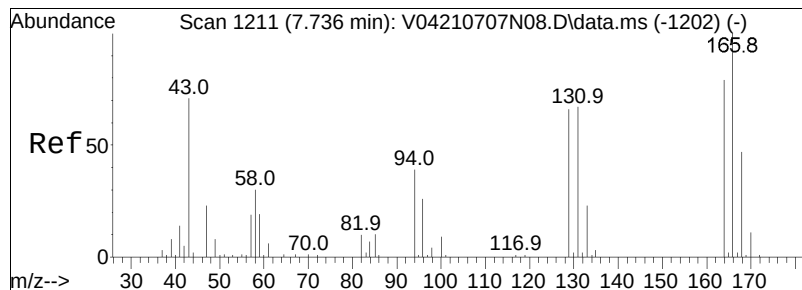




#61
 Toluene
 Concen: 41.01 ug/L
 RT: 7.291 min Scan# 1126
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.5	135.8	203.6





#62

4-Methyl-2-pentanone

Concen: 34.41 ug/L

RT: 7.736 min Scan# 1211

Delta R.T. 0.000 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

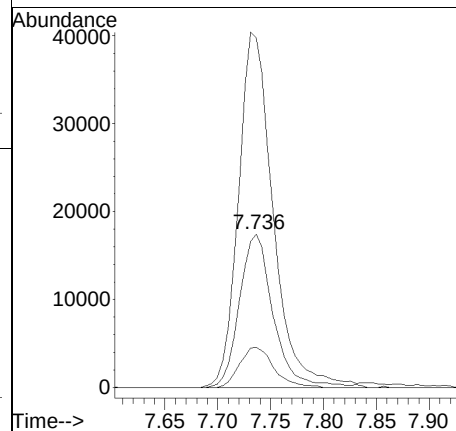
Tgt Ion: 58 Resp: 38769

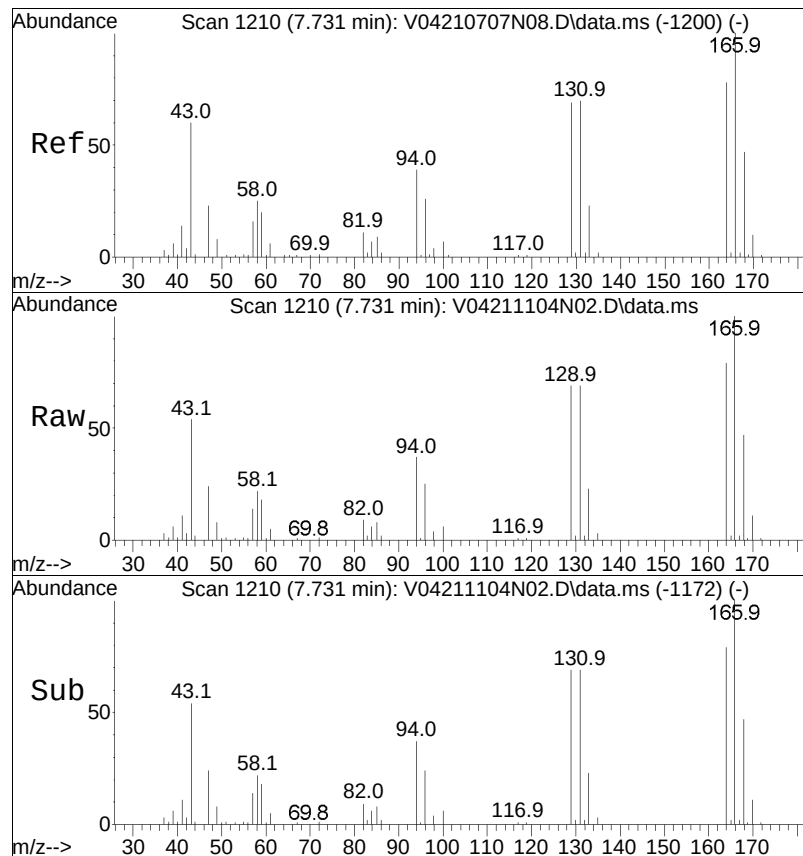
Ion Ratio Lower Upper

58 100

100 26.4 25.6 38.4

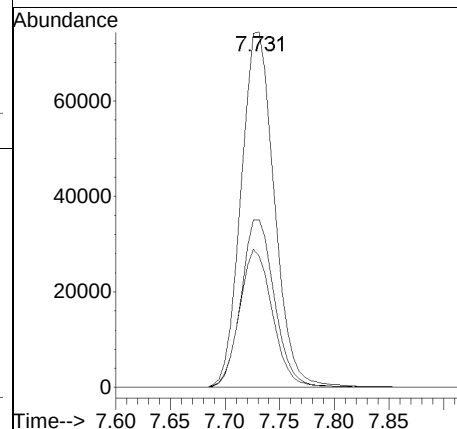
43 239.2 195.7 293.5

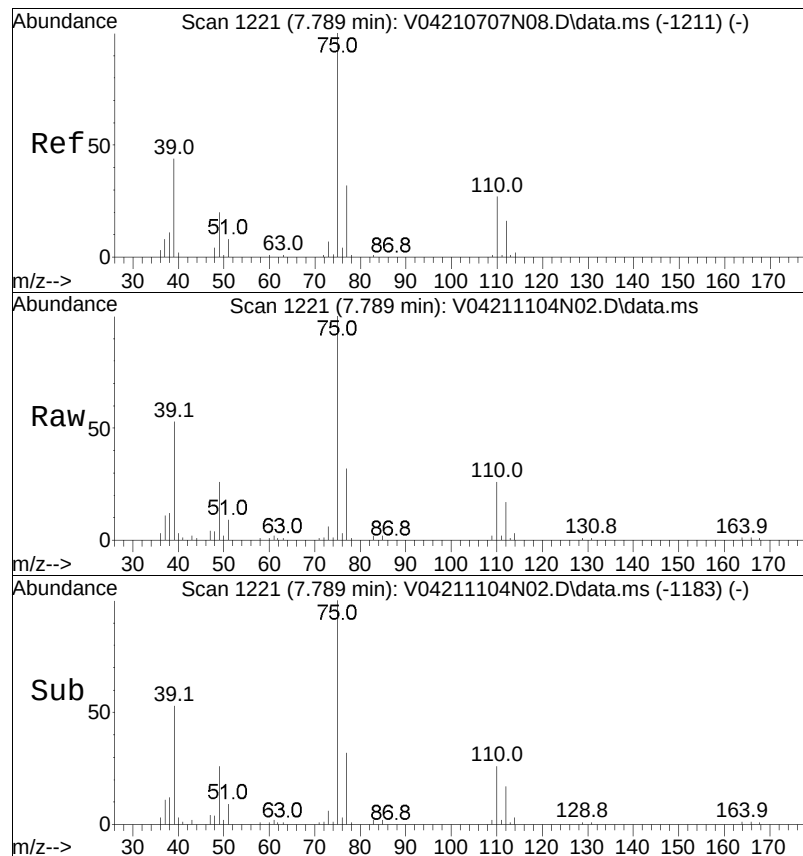




#63
 Tetrachloroethene
 Concen: 44.06 ug/L
 RT: 7.731 min Scan# 1210
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

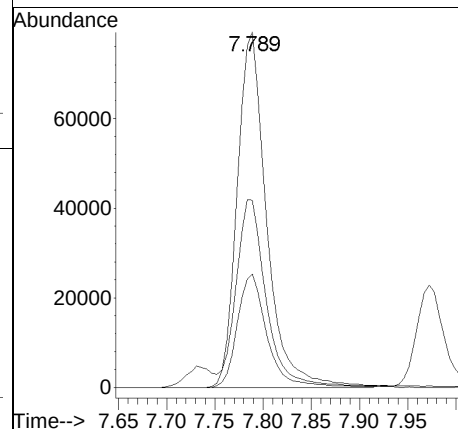
Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.3	27.6	67.6
94	38.7	20.9	60.9

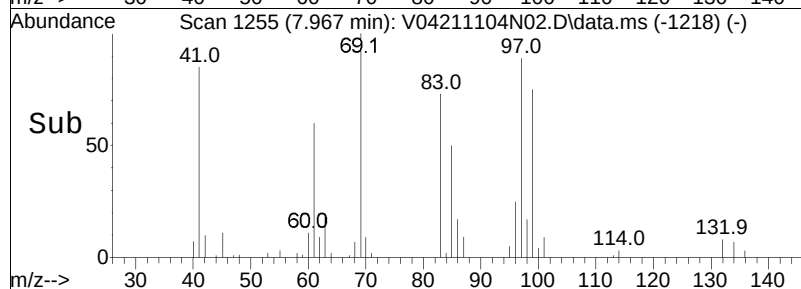
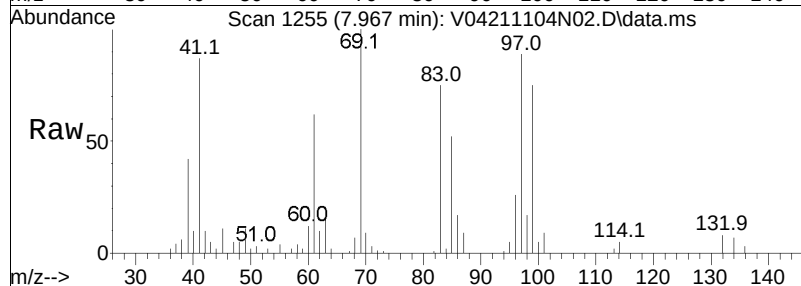
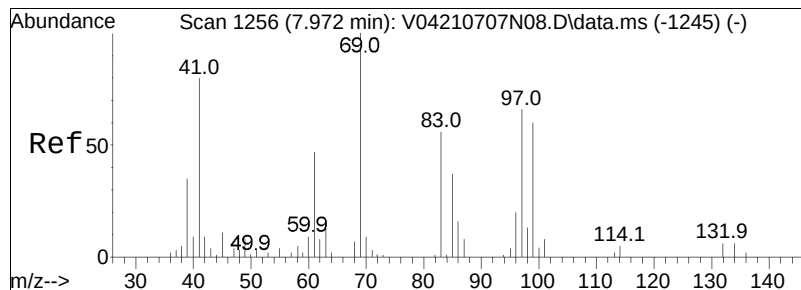




#65
 trans-1,3-Dichloropropene
 Concen: 39.04 ug/L
 RT: 7.789 min Scan# 1221
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	12.0	52.0
39	53.4	29.3	69.3





#68

1,1,2-Trichloroethane

Concen: 38.77 ug/L

RT: 7.967 min Scan# 1255

Delta R.T. -0.005 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

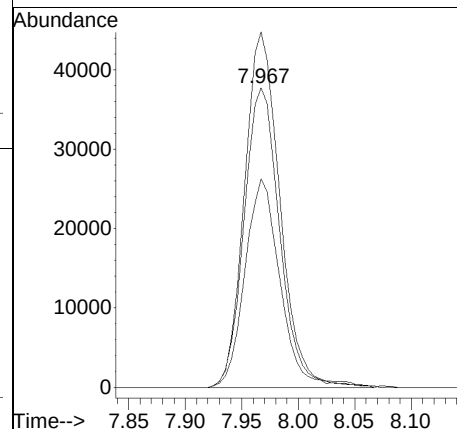
Tgt Ion: 83 Resp: 82975

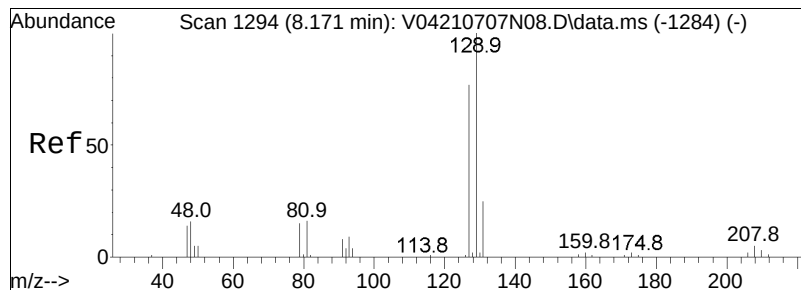
Ion Ratio Lower Upper

83 100

97 117.8 99.3 139.3

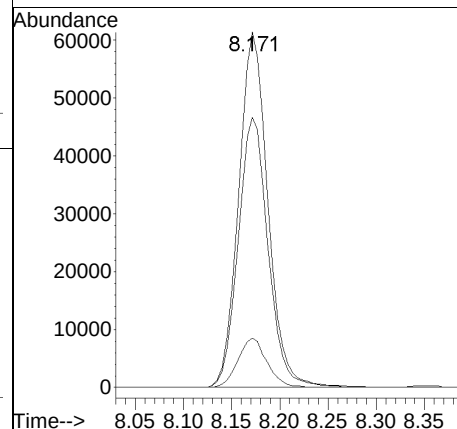
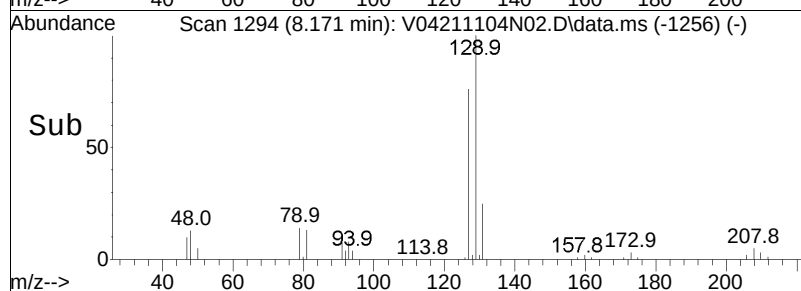
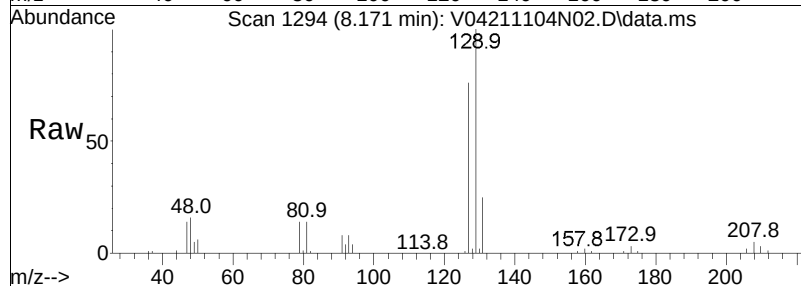
85 69.0 47.8 87.8

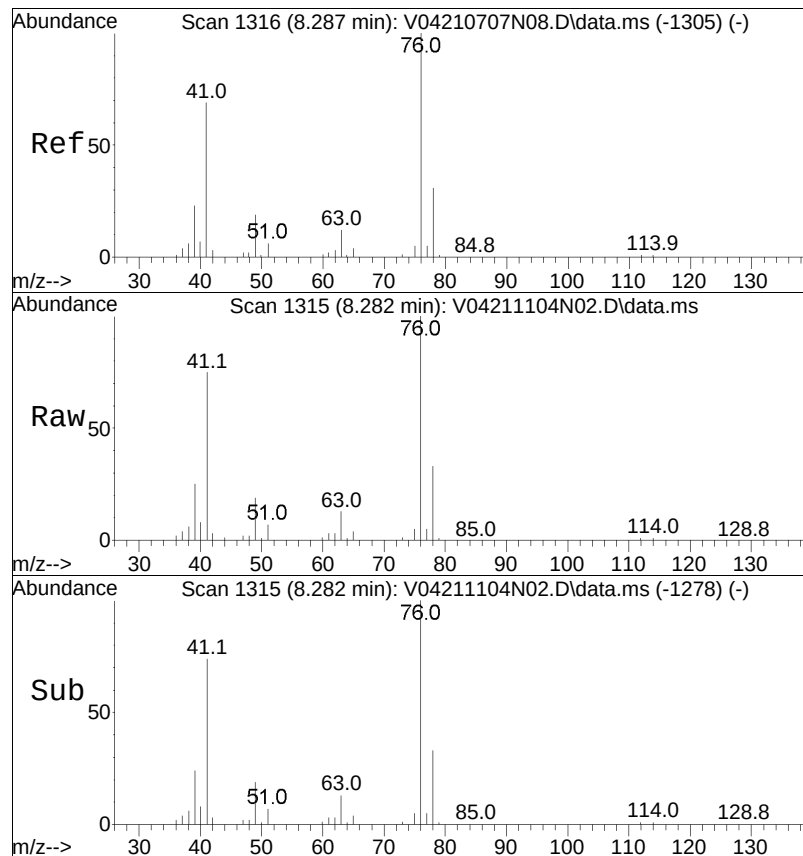




#69
 Chlorodibromomethane
 Concen: 40.76 ug/L
 RT: 8.171 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

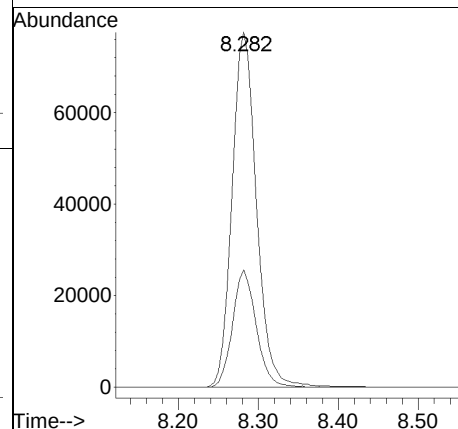
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	129600		
81	13.7		0.0	34.6
127	77.4		56.9	96.9

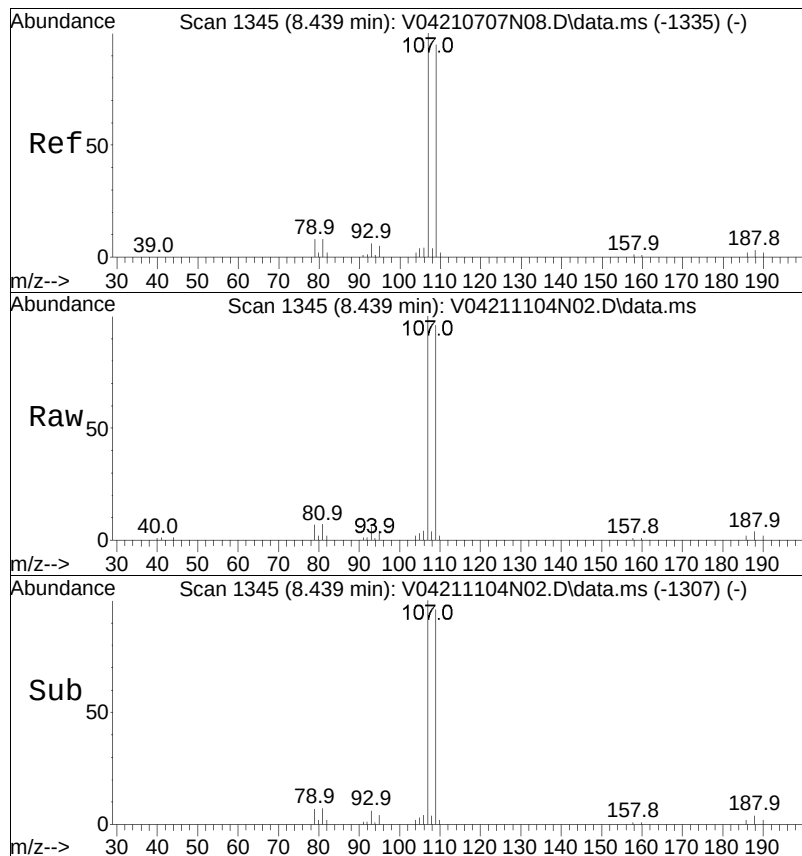




#70
 1,3-Dichloropropane
 Concen: 39.31 ug/L
 RT: 8.282 min Scan# 1315
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

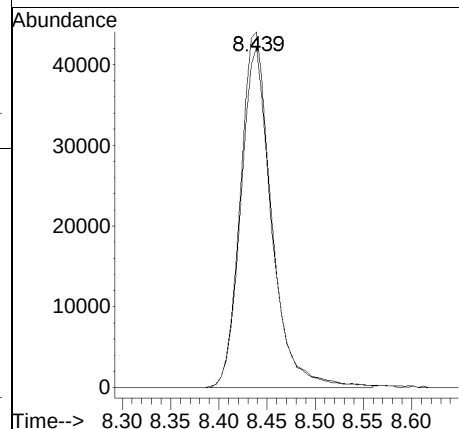
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

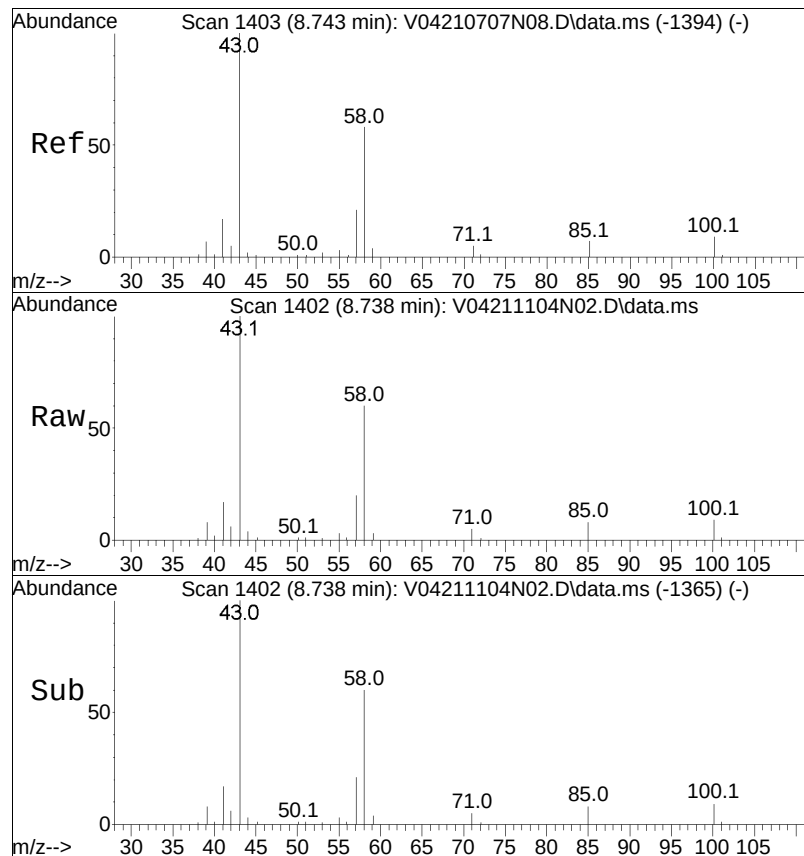




#71
 1,2-Dibromoethane
 Concen: 34.58 ug/L
 RT: 8.439 min Scan# 1345
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

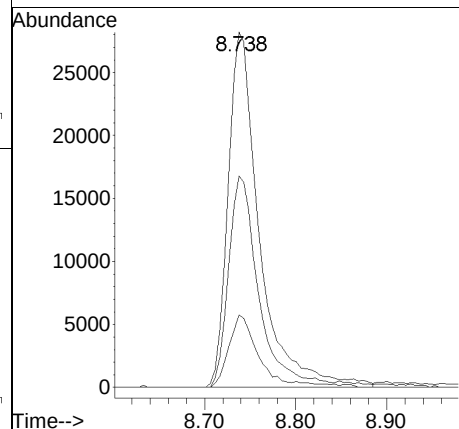
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.4	113.0

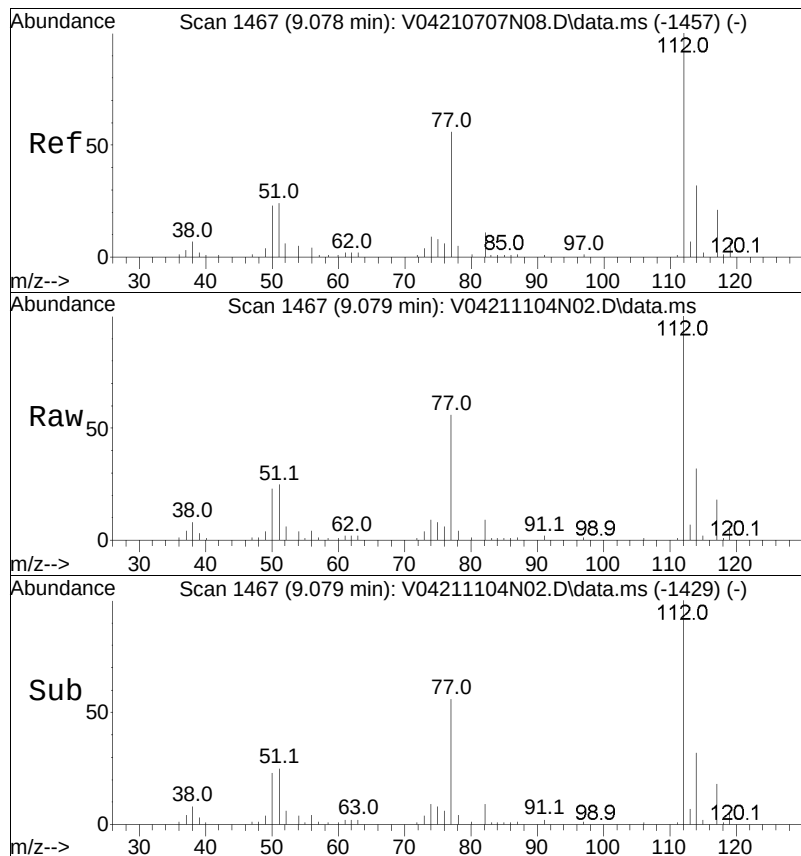




#72
 2-Hexanone
 Concen: 31.43 ug/L
 RT: 8.738 min Scan# 1402
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

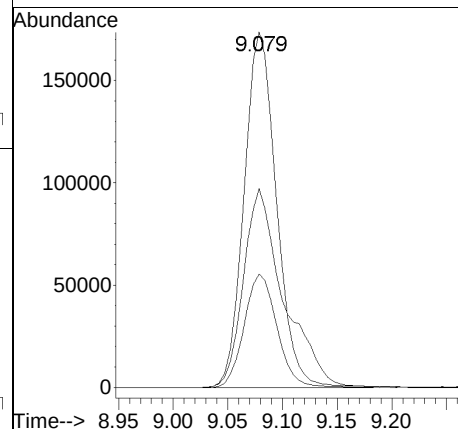
Tgt Ion: 43	Resp: 67716
Ion Ratio	Lower Upper
43 100	
58 57.2	44.7 67.1
57 19.8	15.4 23.0

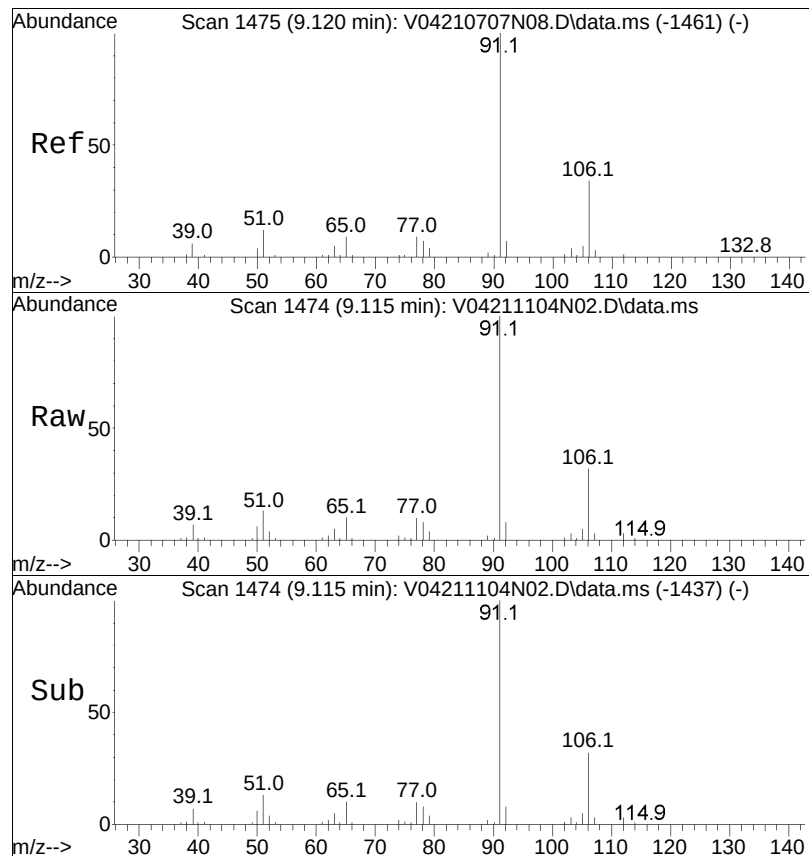




#73
 Chlorobenzene
 Concen: 40.44 ug/L
 RT: 9.079 min Scan# 1467
 Delta R.T. 0.001 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

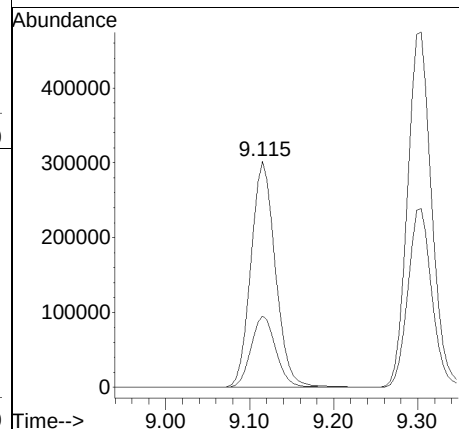
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		357211		
77	69.5	55.3		82.9	
114	32.4	25.5		38.3	

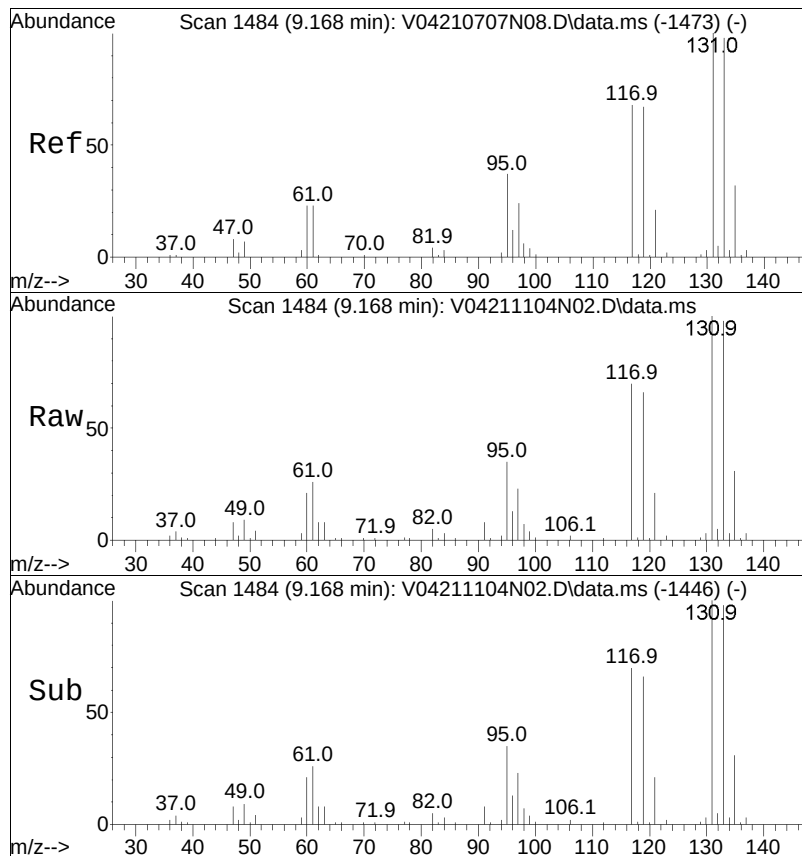




#74
 Ethylbenzene
 Concen: 41.06 ug/L
 RT: 9.115 min Scan# 1474
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

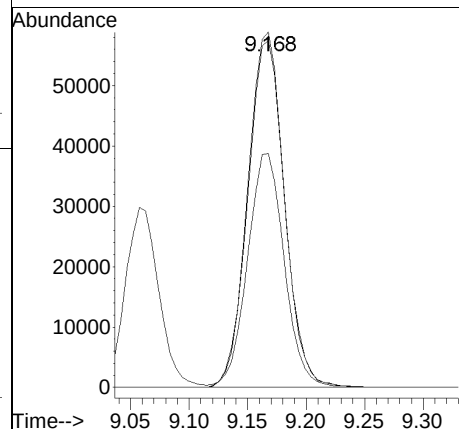
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.4	38.2

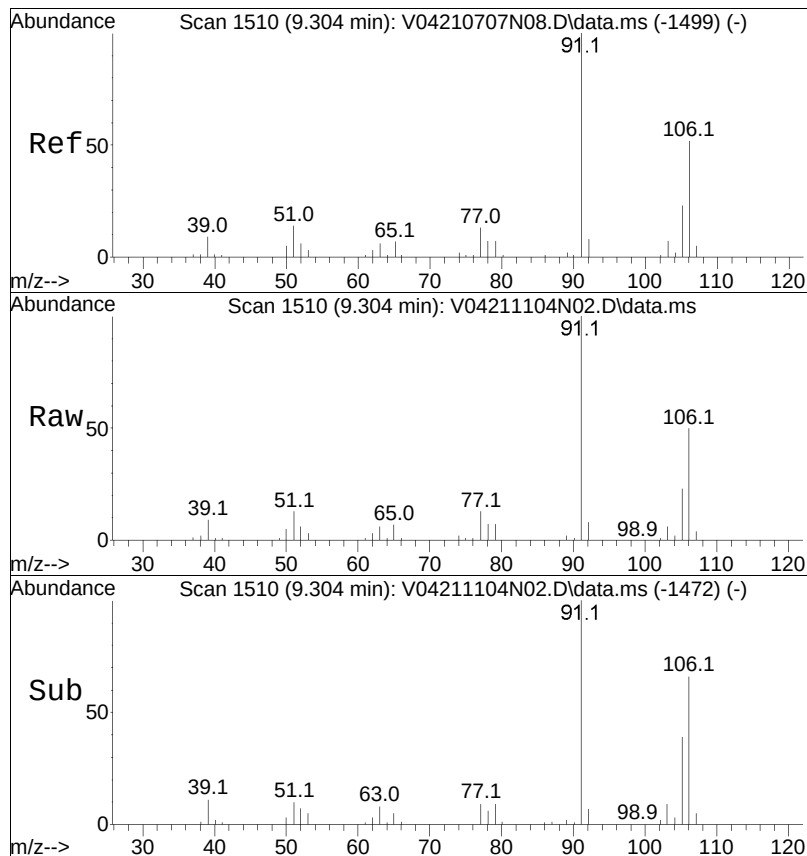




#75
 1,1,1,2-Tetrachloroethane
 Concen: 39.88 ug/L
 RT: 9.168 min Scan# 1484
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

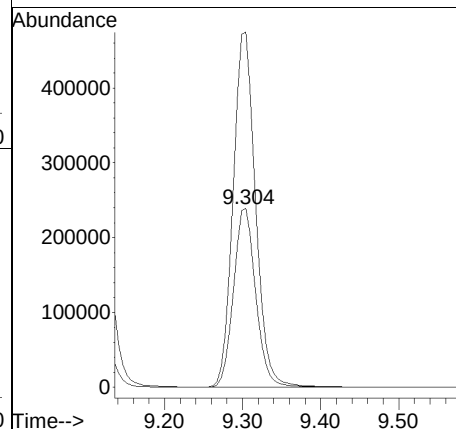
Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.0	77.0	117.0
119	66.1	45.8	85.8

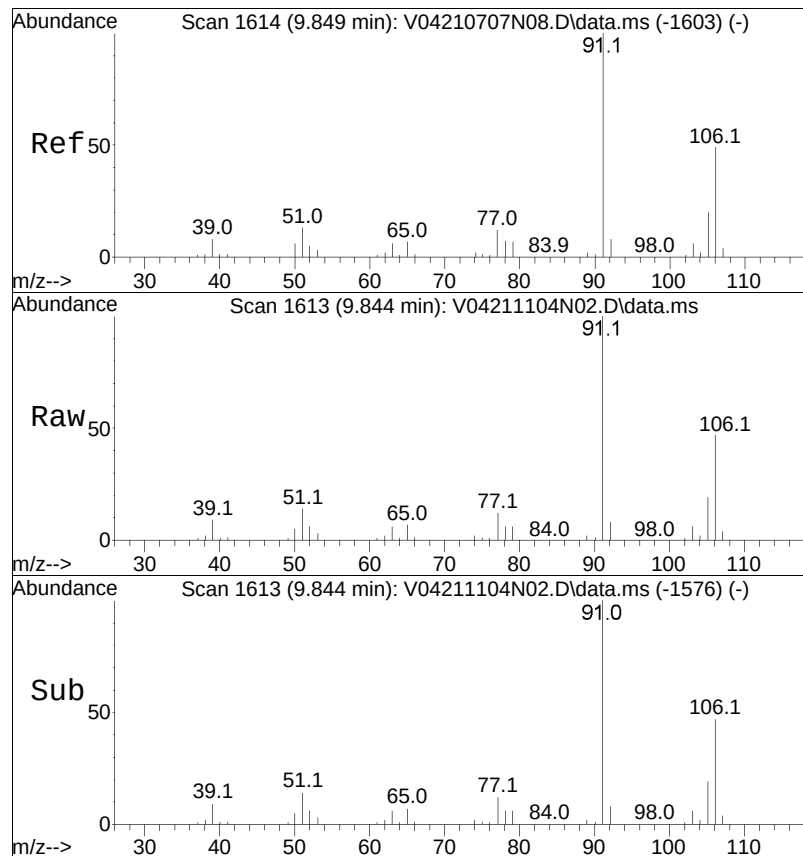




#76
 p/m Xylene
 Concen: 86.45 ug/L
 RT: 9.304 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

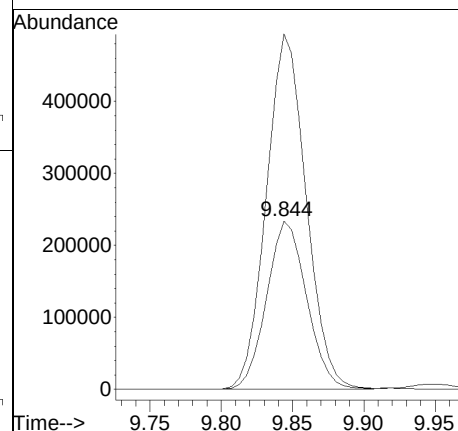
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	198.7	157.1	235.7	

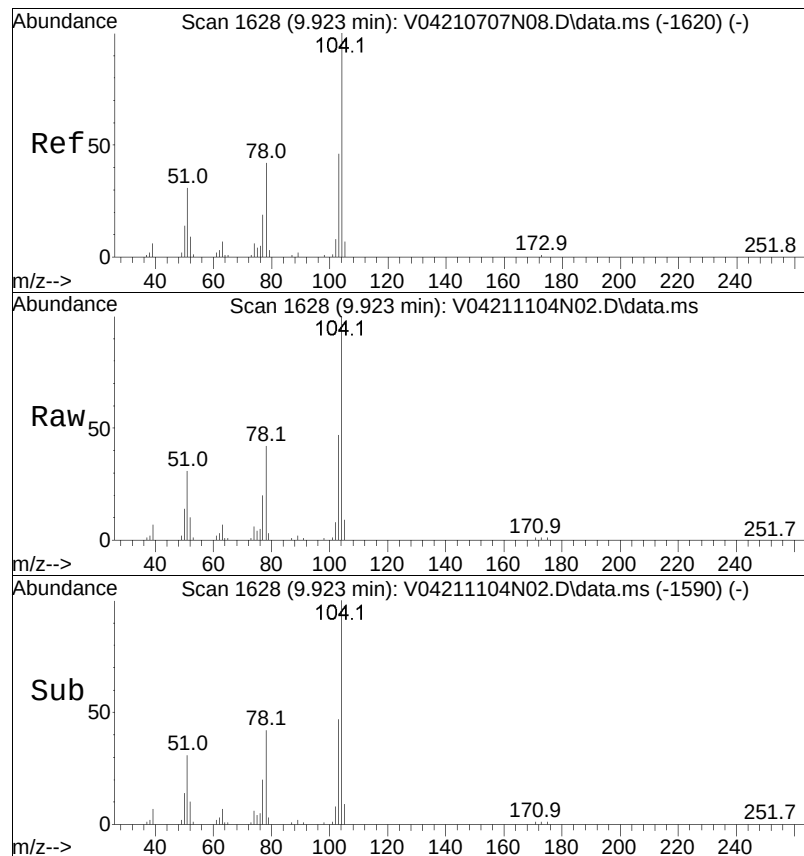




#77
 o Xylene
 Concen: 77.85 ug/L
 RT: 9.844 min Scan# 1613
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

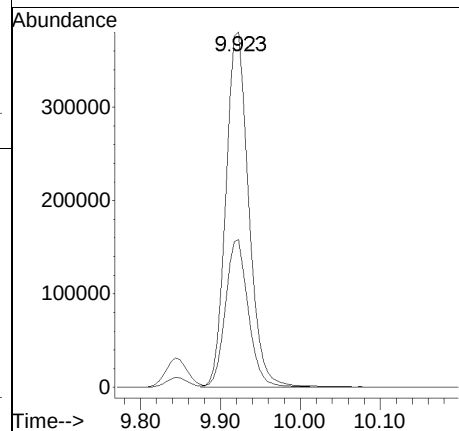
Tgt Ion	106	91	Ratio	Lower	Upper
Resp	457229				
Ratio	100	209.7		165.9	248.9

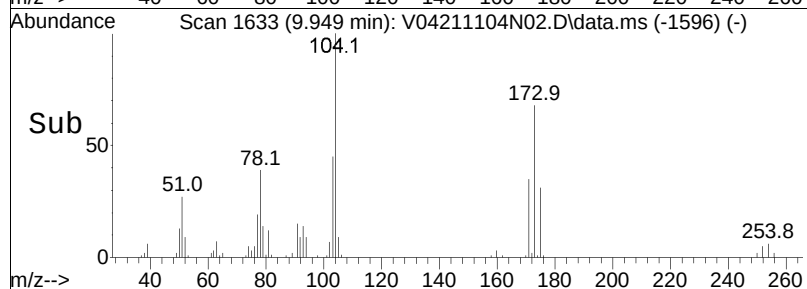
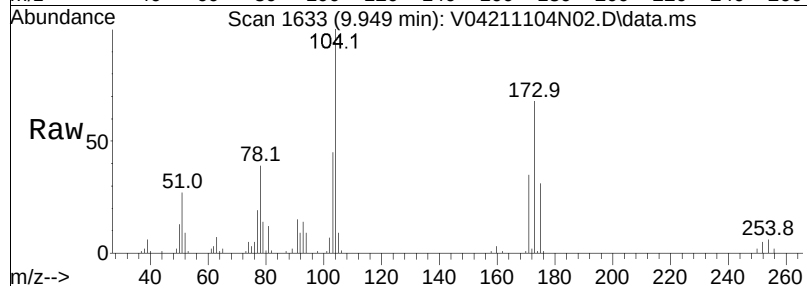
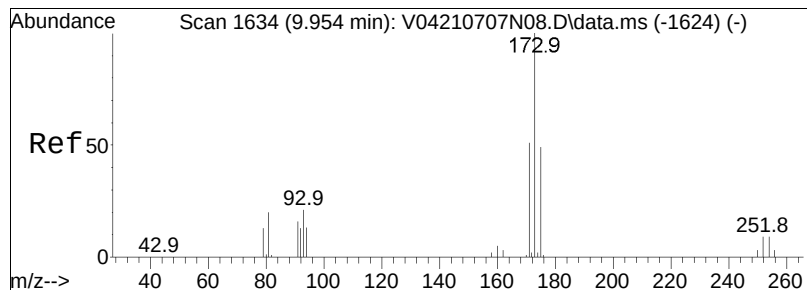




#78
 Styrene
 Concen: 81.18 ug/L
 RT: 9.923 min Scan# 1628
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.8	33.0	49.4





#80

Bromoform

Concen: 33.36 ug/L

RT: 9.949 min Scan# 1633

Delta R.T. -0.005 min

Lab File: V04211104N02.D

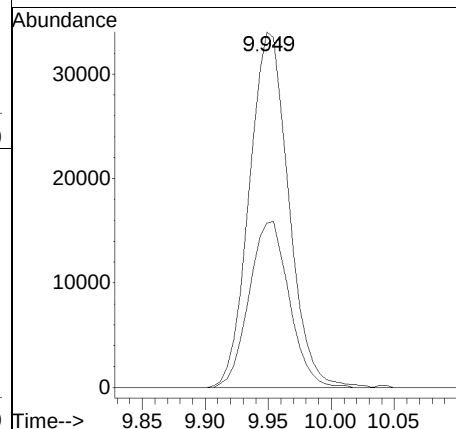
Acq: 4 Nov 2021 6:25 pm

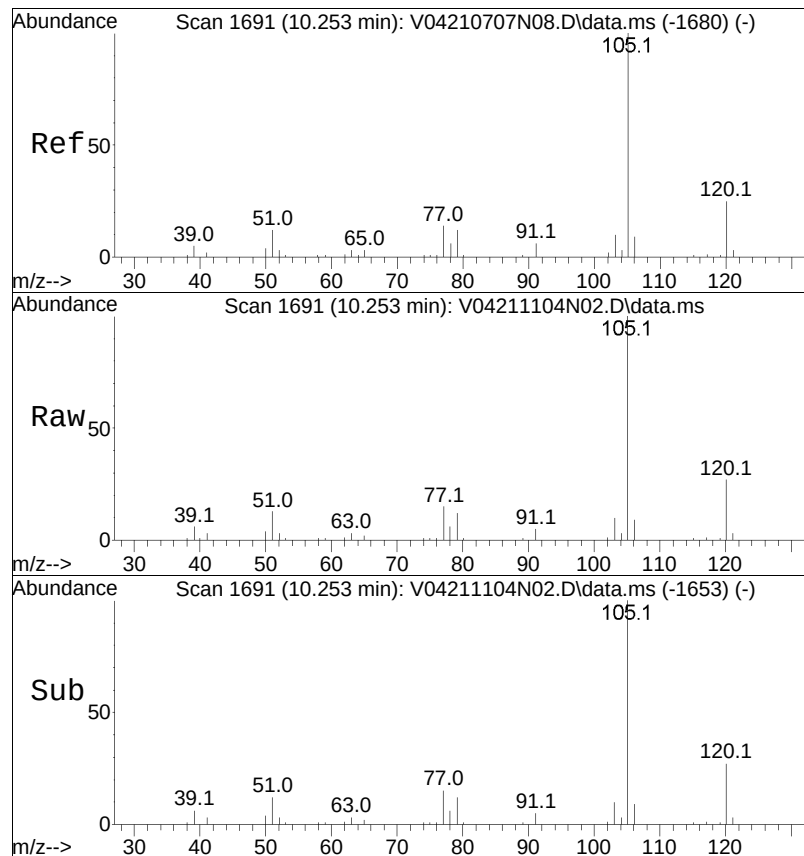
Tgt Ion:173 Resp: 73832

Ion Ratio Lower Upper

173 100

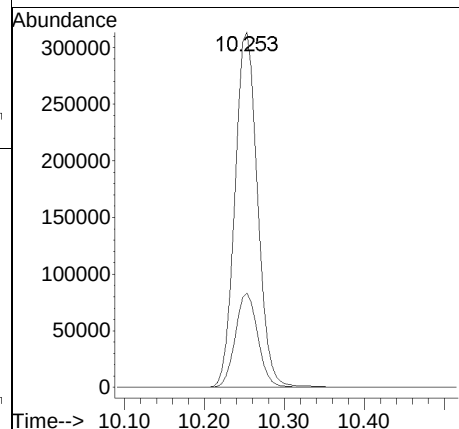
175 47.4 28.2 68.2

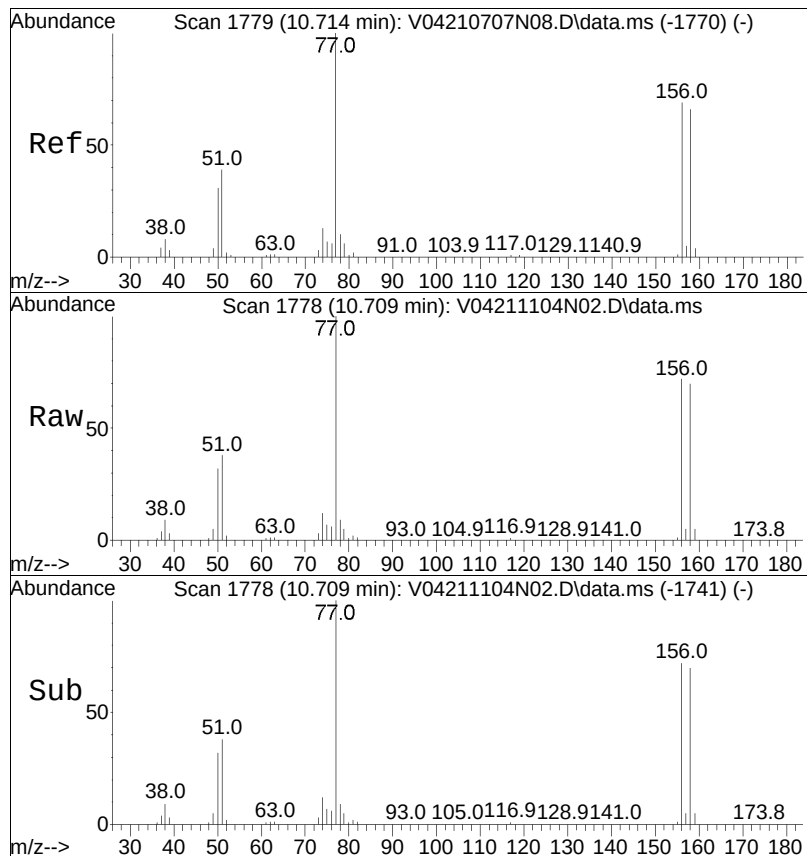




#82
Isopropylbenzene
Concen: 39.16 ug/L
RT: 10.253 min Scan# 1691
Delta R.T. -0.000 min
Lab File: V04211104N02.D
Acq: 4 Nov 2021 6:25 pm

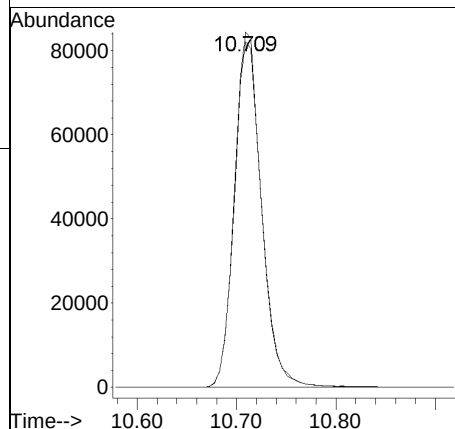
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	6.0	46.0

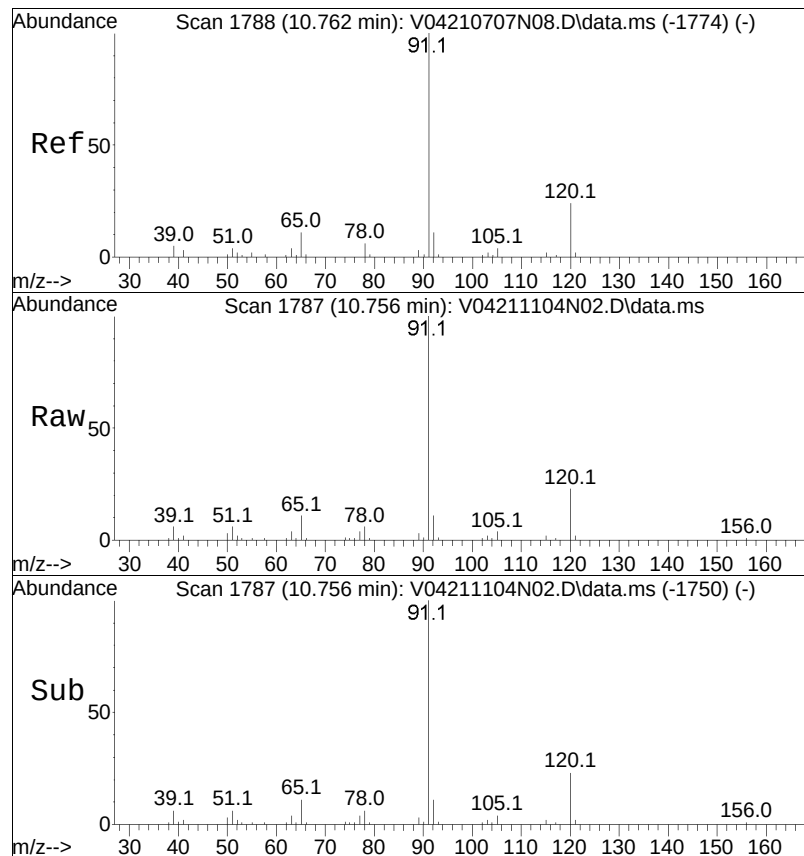




#84
 Bromobenzene
 Concen: 41.84 ug/L
 RT: 10.709 min Scan# 1778
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

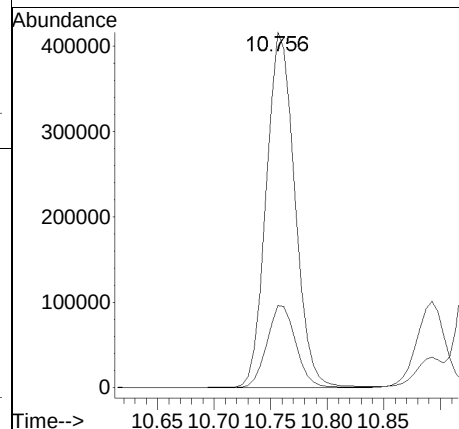
Tgt Ion	Ratio	Lower	Upper
156	100		
158	98.0	79.0	118.4

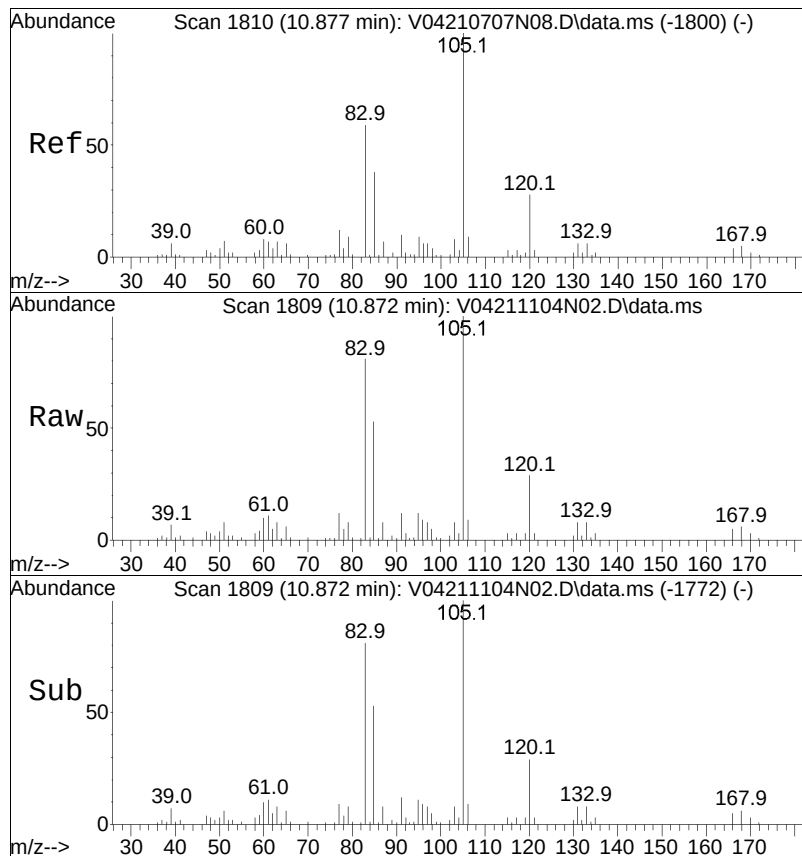




#85
 n-Propylbenzene
 Concen: 41.30 ug/L
 RT: 10.756 min Scan# 1787
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

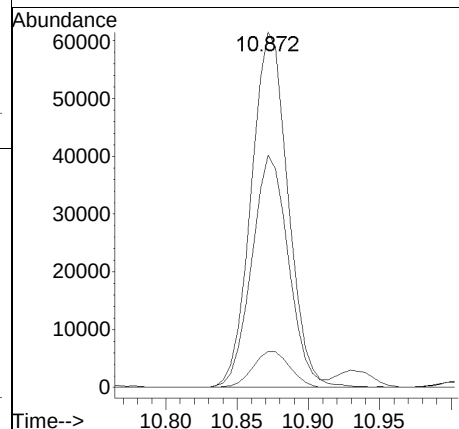
Tgt Ion:	91	Resp:	729763
Ion Ratio	Lower	Upper	
91	100		
120	23.2	18.9	28.3

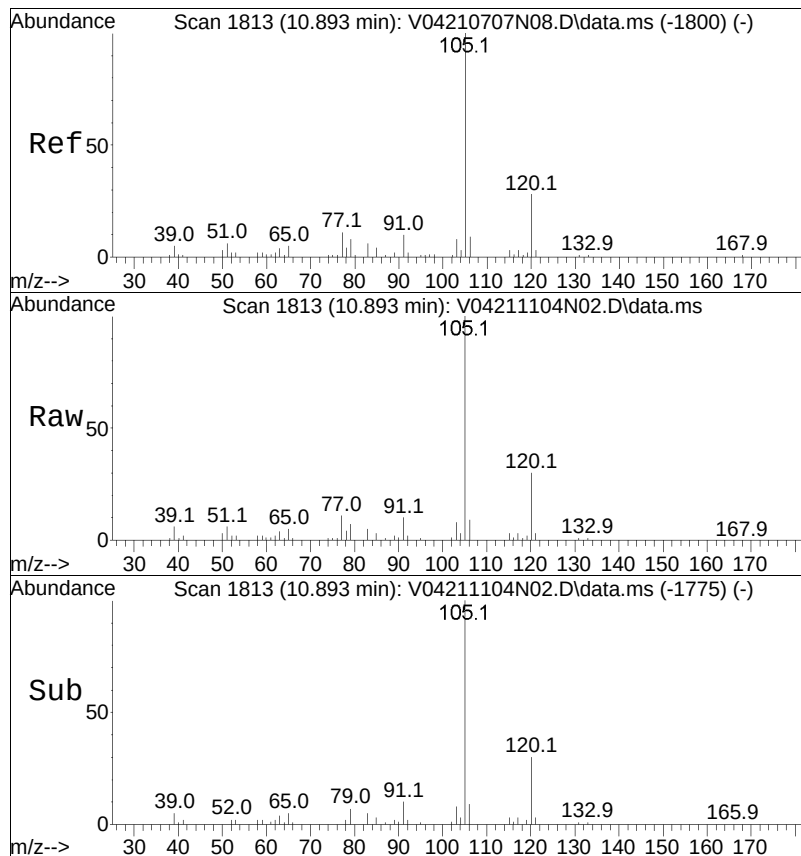




#87
 1,1,2,2-Tetrachloroethane
 Concen: 33.68 ug/L
 RT: 10.872 min Scan# 1809
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

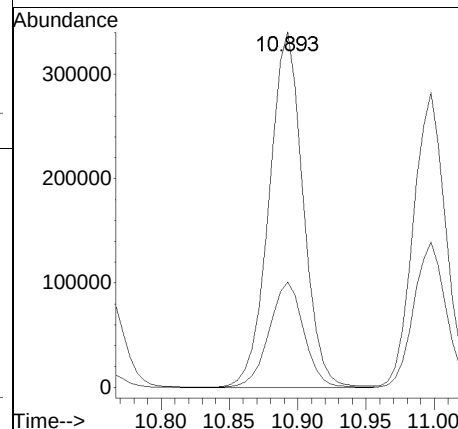
Tgt Ion:	83	Resp:	110472
Ion Ratio	Lower	Upper	
83	100		
131	10.3	0.0	30.7
85	65.2	44.7	84.7

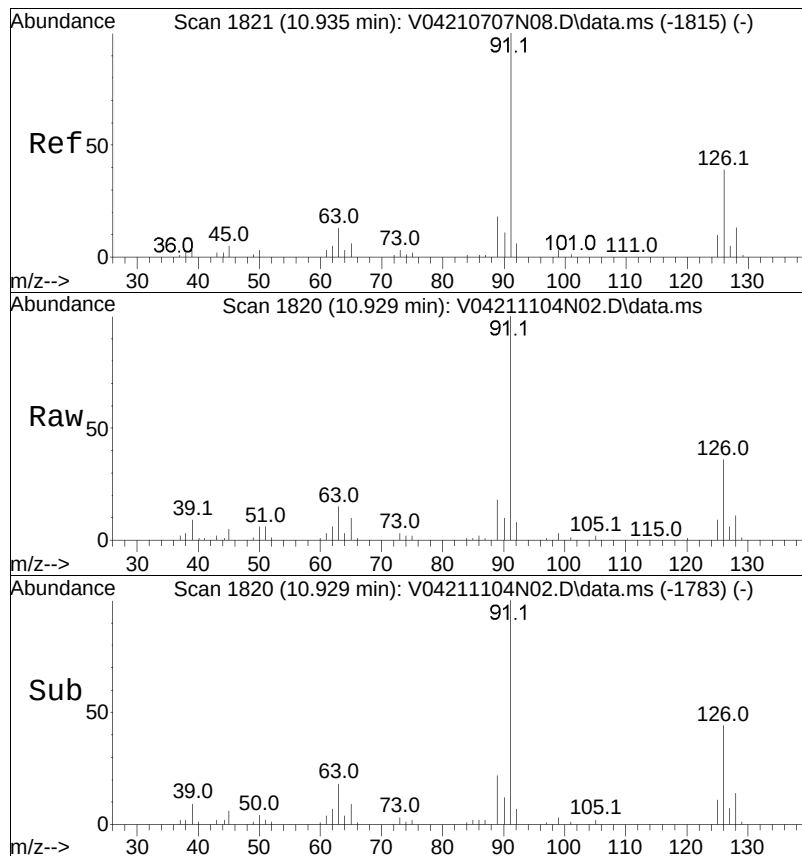




#88
 4-Ethyltoluene
 Concen: 38.72 ug/L
 RT: 10.893 min Scan# 1813
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

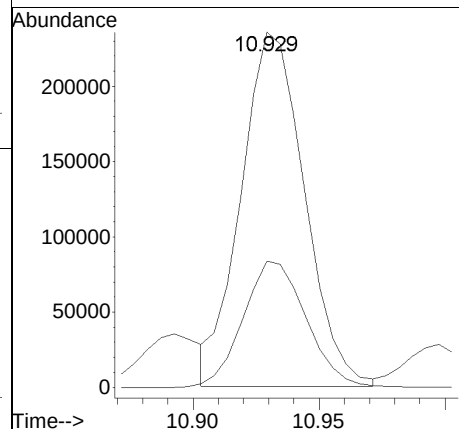
Tgt	Ion	Ratio	Lower	Upper
105	105	100		
120	120	30.0	19.2	40.0

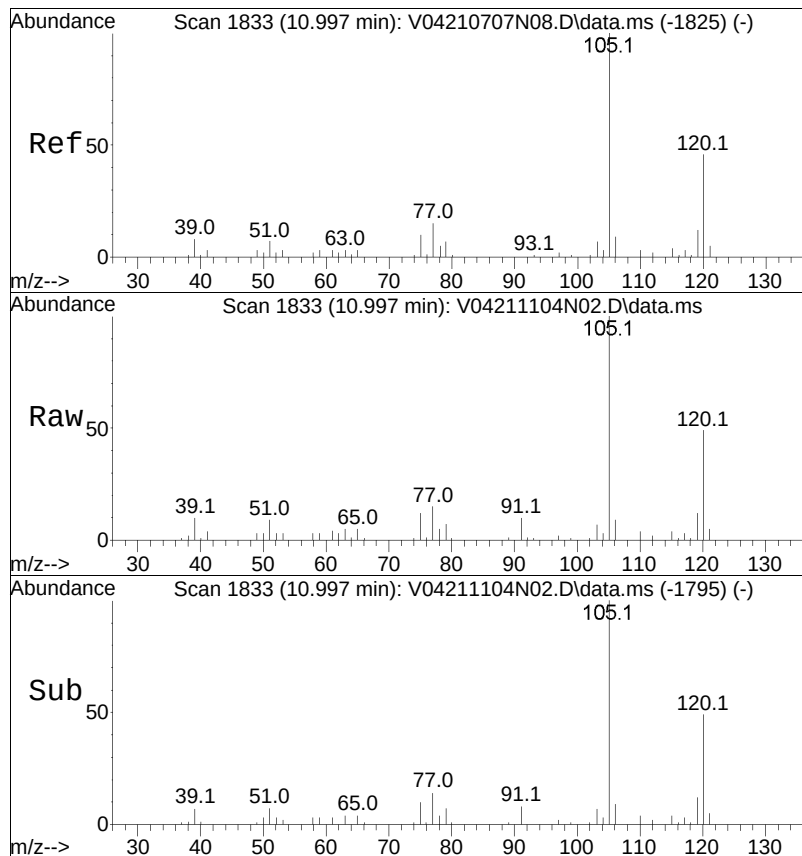




#89
 2-Chlorotoluene
 Concen: 38.86 ug/L
 RT: 10.929 min Scan# 1820
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

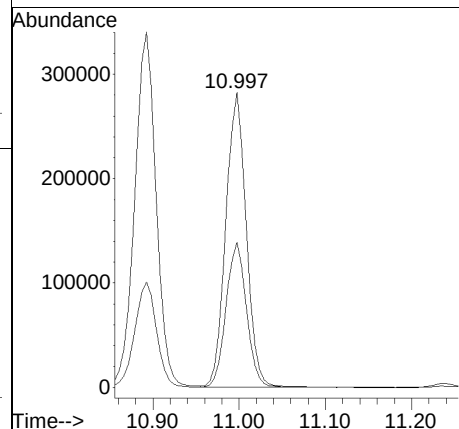
Tgt	Ion	Resp	Lower	Upper
91	100	411479		
126	35.6	27.8	41.8	

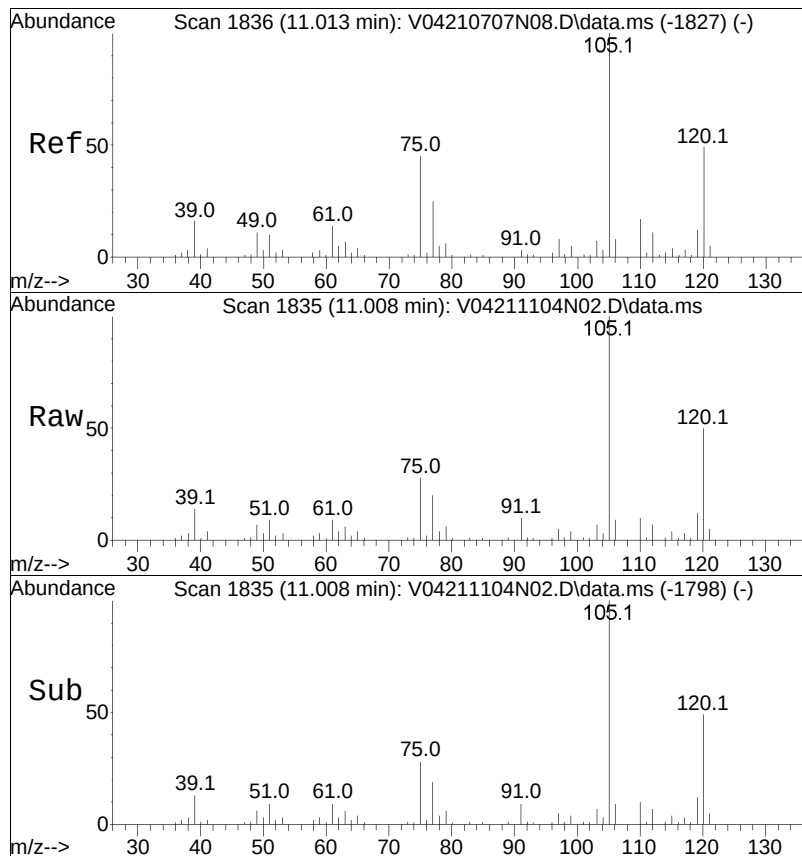




#90
 1,3,5-Trimethylbenzene
 Concen: 36.12 ug/L
 RT: 10.997 min Scan# 1833
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

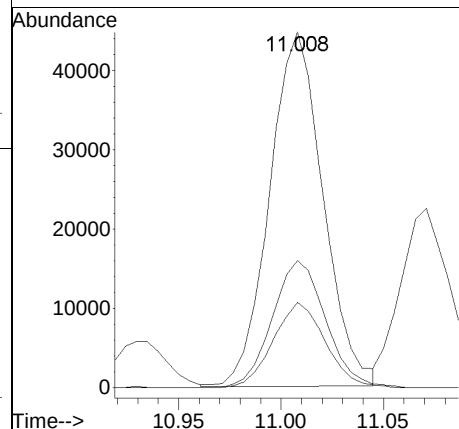
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	38.4	57.6

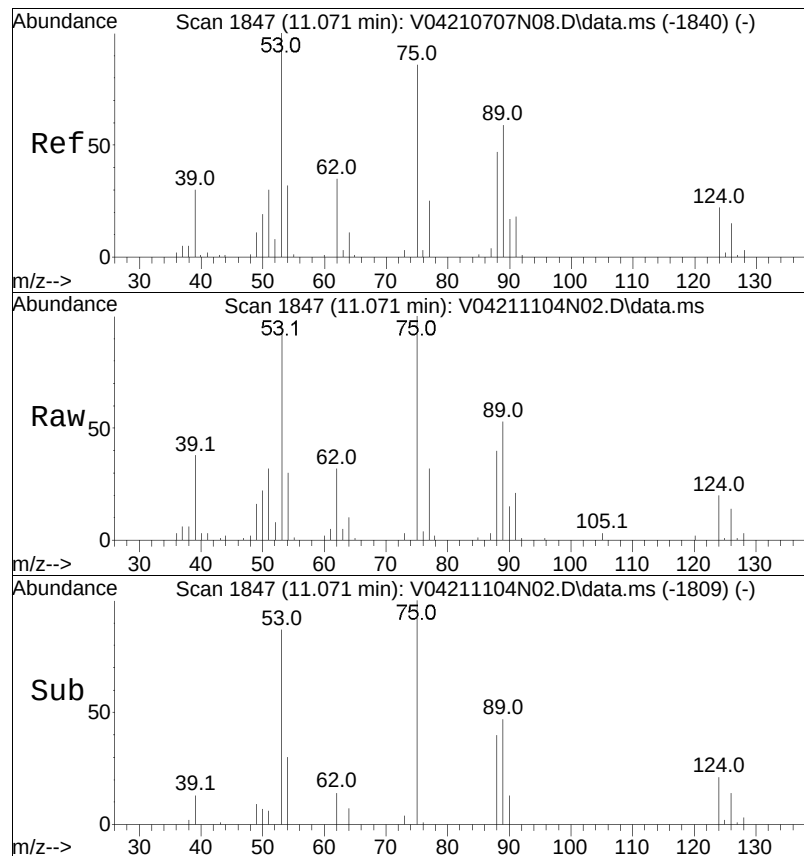




#91
 1,2,3-Trichloropropane
 Concen: 31.95 ug/L
 RT: 11.008 min Scan# 1835
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

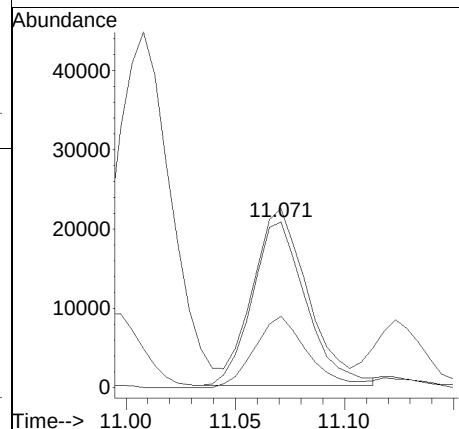
Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.5	24.6	51.2
112	23.2	15.5	32.3

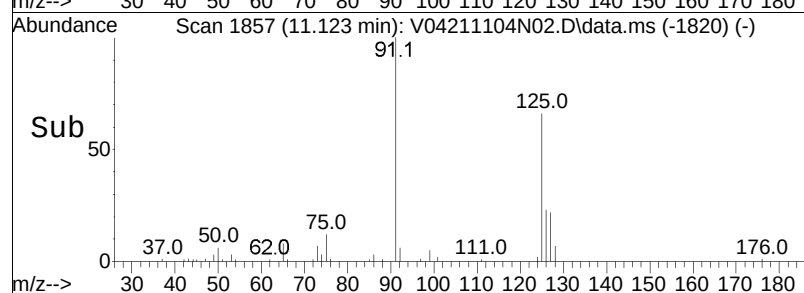
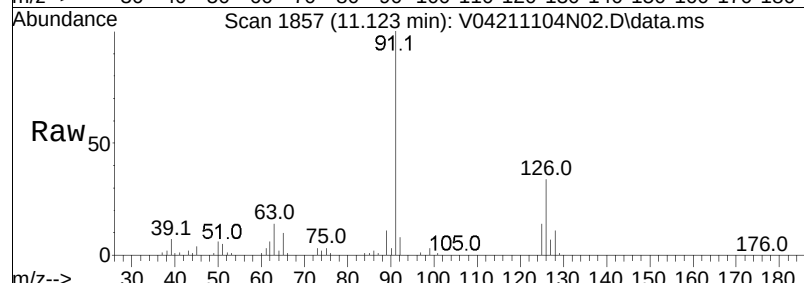
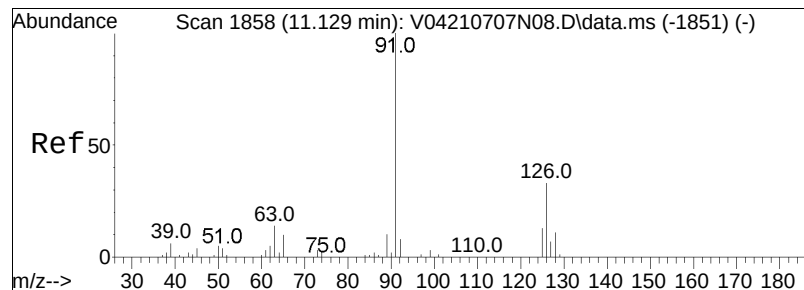




#92
 trans-1,4-Dichloro-2-butene
 Concen: 30.18 ug/L
 RT: 11.071 min Scan# 1847
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

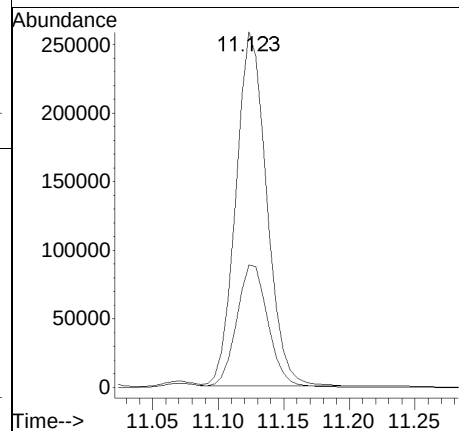
Tgt Ion	Ratio	Lower	Upper
53	100		
88	42.5	35.5	53.3
75	109.4	82.8	124.2

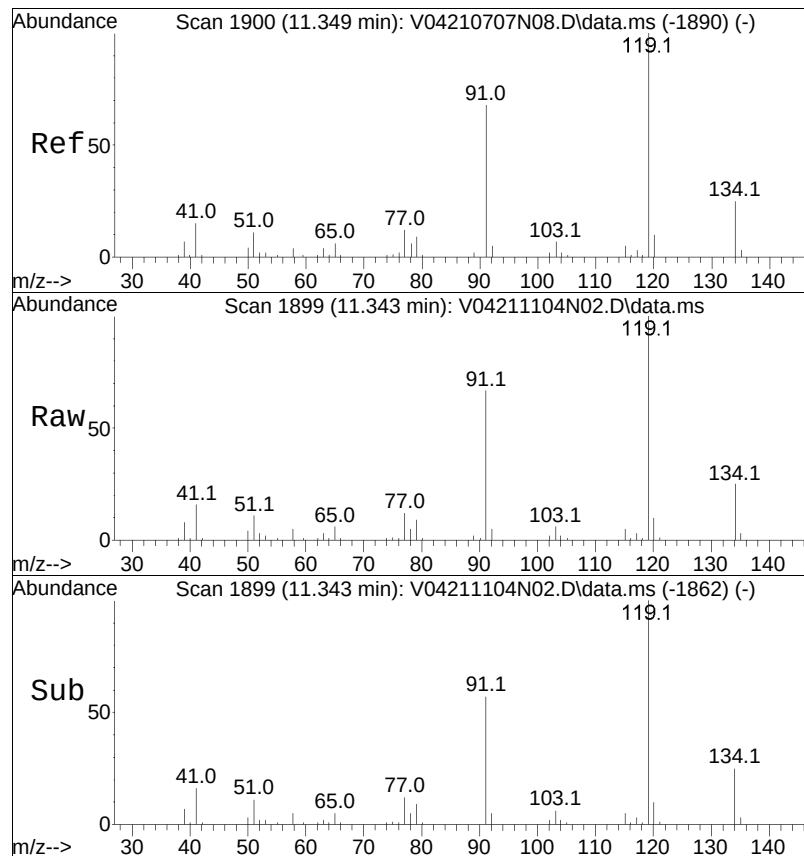




#93
 4-Chlorotoluene
 Concen: 38.44 ug/L
 RT: 11.123 min Scan# 1857
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

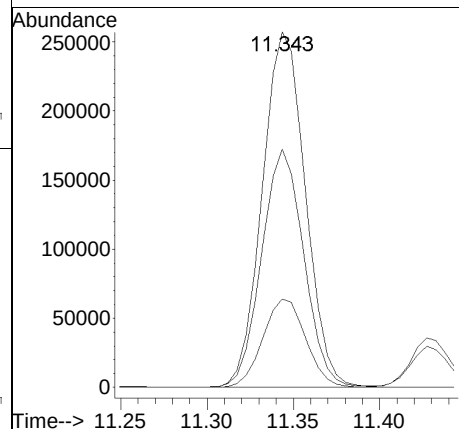
Tgt Ion:	91	Resp:	422750
Ion Ratio	100	Lower	Upper
126	35.3	27.6	41.4

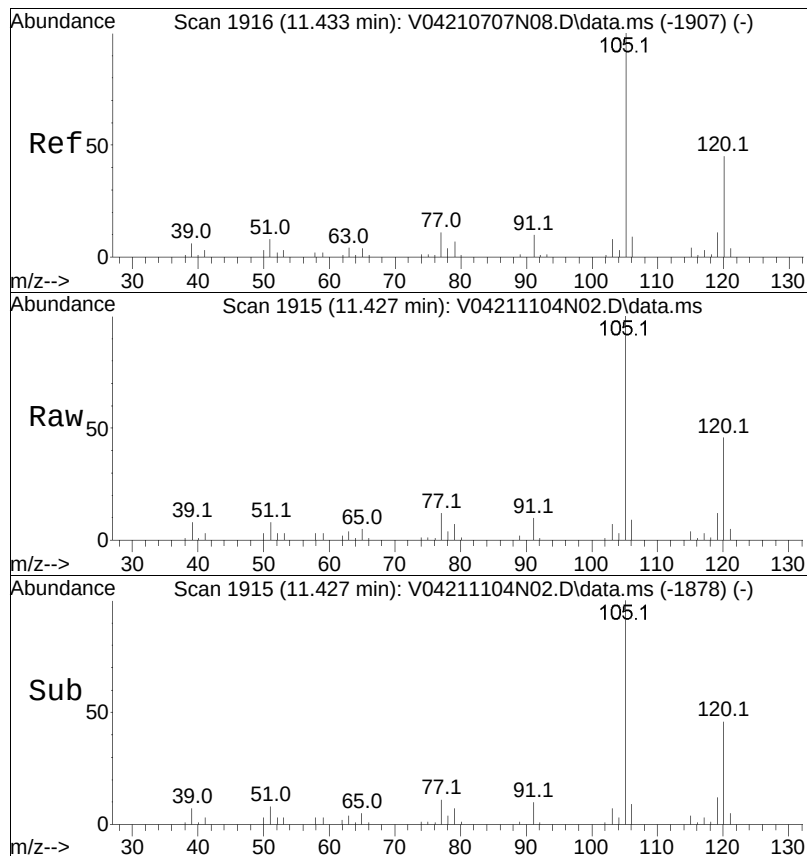




#94
 tert-Butylbenzene
 Concen: 40.82 ug/L
 RT: 11.343 min Scan# 1899
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

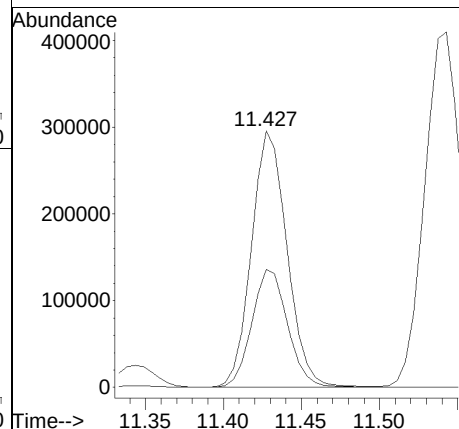
Tgt Ion	Ratio	Lower	Upper
119	100		
91	65.5	53.0	79.6
134	24.8	19.6	29.4

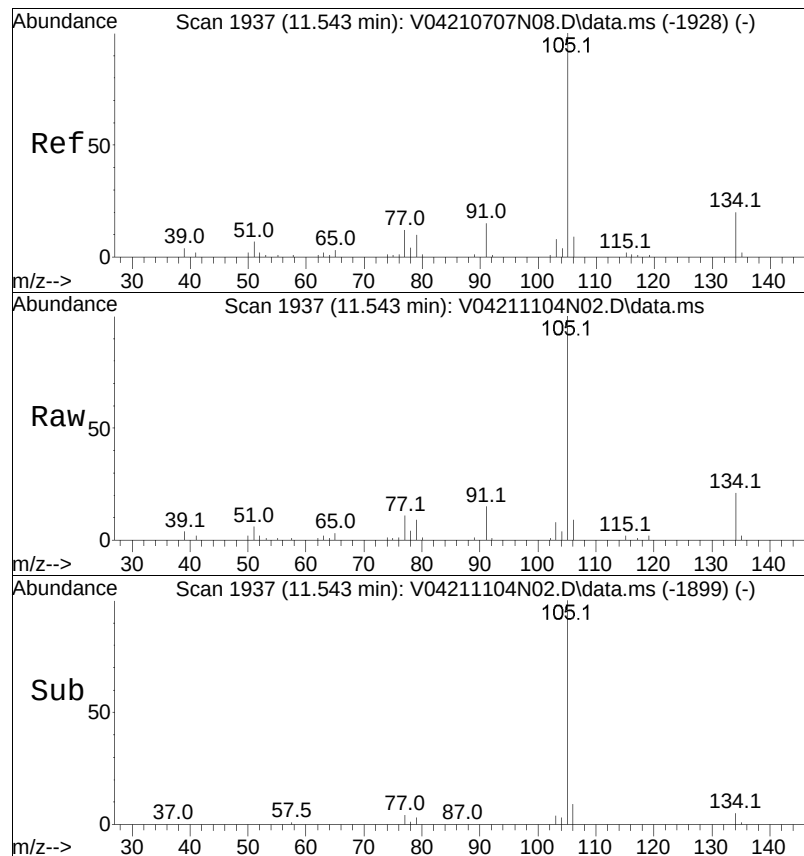




#97
 1,2,4-Trimethylbenzene
 Concen: 36.31 ug/L
 RT: 11.427 min Scan# 1915
 Delta R.T. -0.006 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

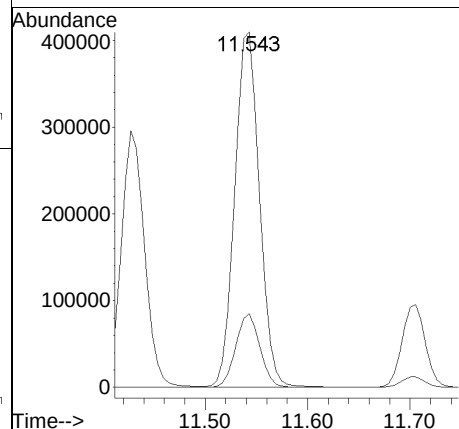
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	469009				
Ratio	100	46.2		36.4	54.6

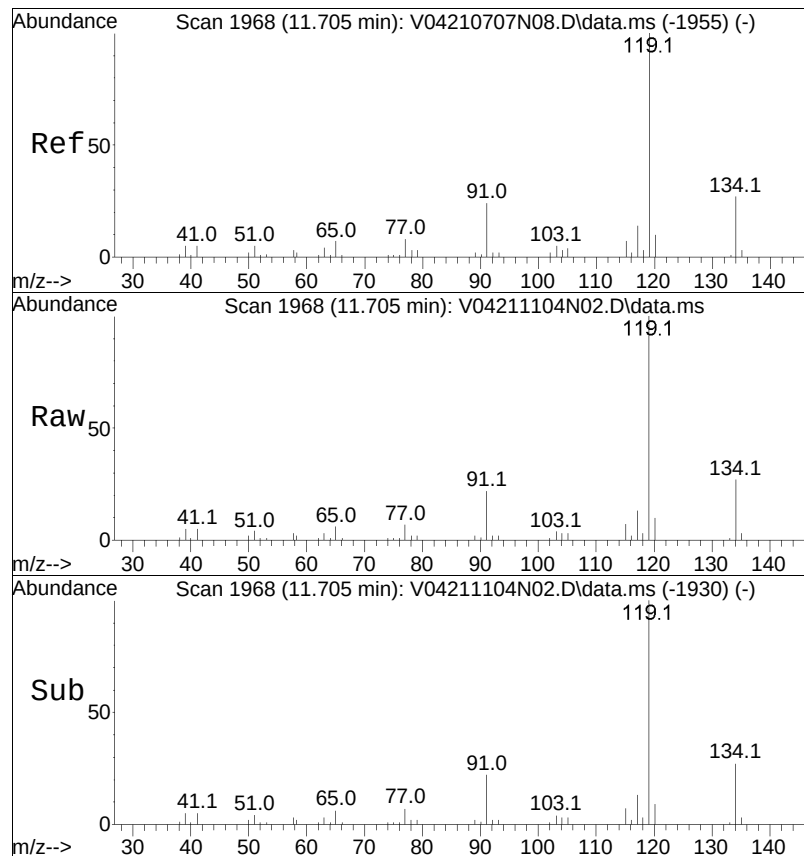




#98
 sec-Butylbenzene
 Concen: 39.97 ug/L
 RT: 11.543 min Scan# 1937
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

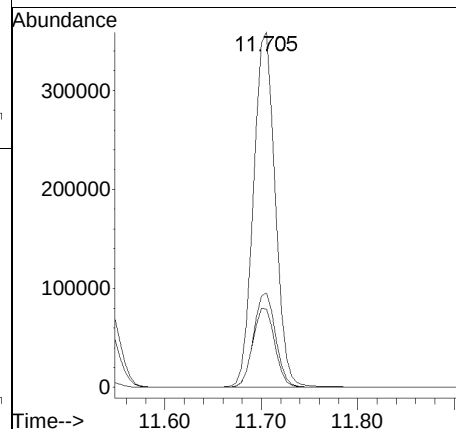
Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.3	12.9	26.9

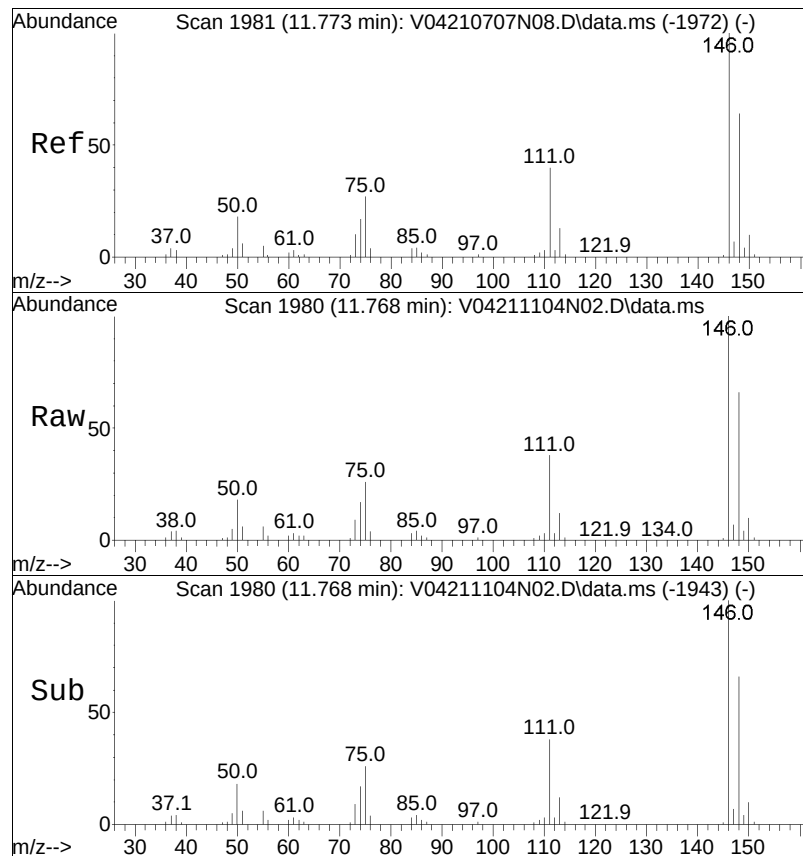




#99
 p-Isopropyltoluene
 Concen: 40.51 ug/L
 RT: 11.705 min Scan# 1968
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

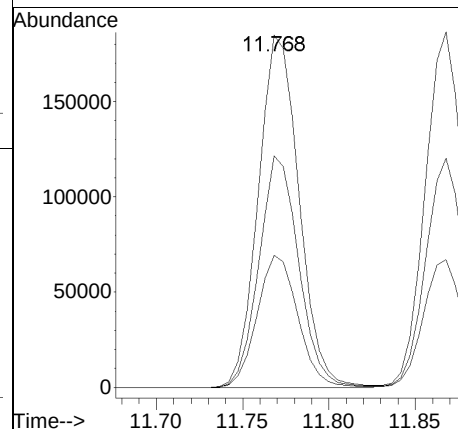
Tgt	Ion	Ratio	Lower	Upper
119	100			
134	26.9	17.1	35.5	
91	22.9	14.8	30.6	

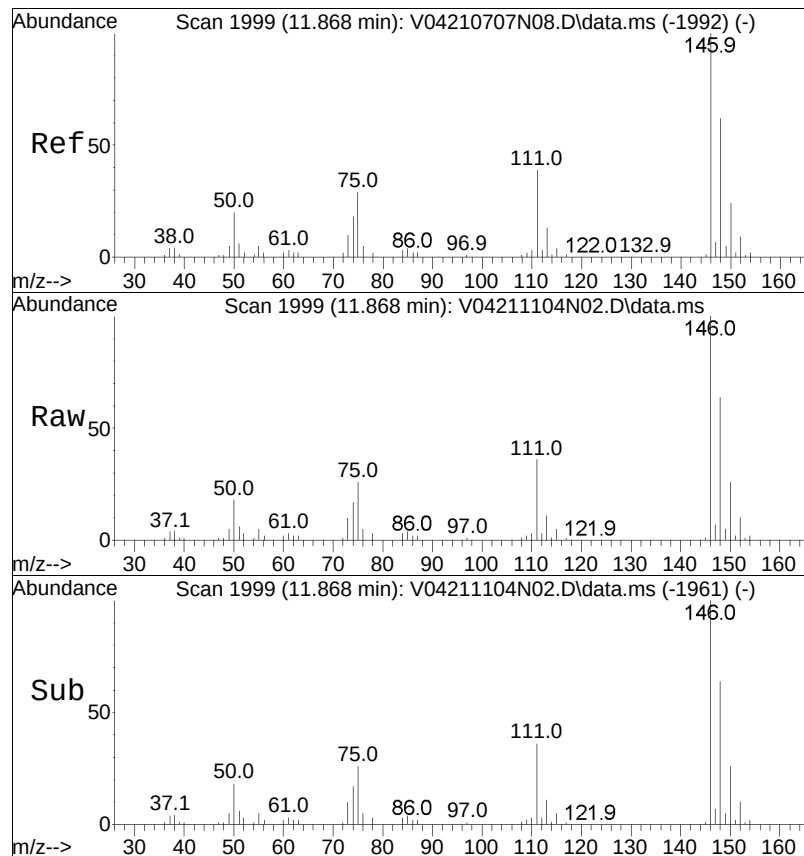




#100
 1,3-Dichlorobenzene
 Concen: 40.24 ug/L
 RT: 11.768 min Scan# 1980
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

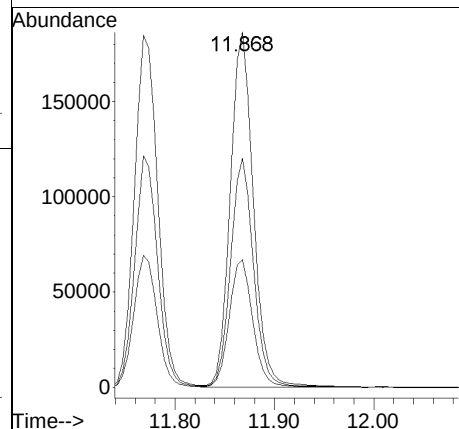
Tgt	Ion:146	Resp:	303289
Ion	Ratio	Lower	Upper
146	100		
111	37.6	24.8	51.6
148	64.3	41.6	86.4

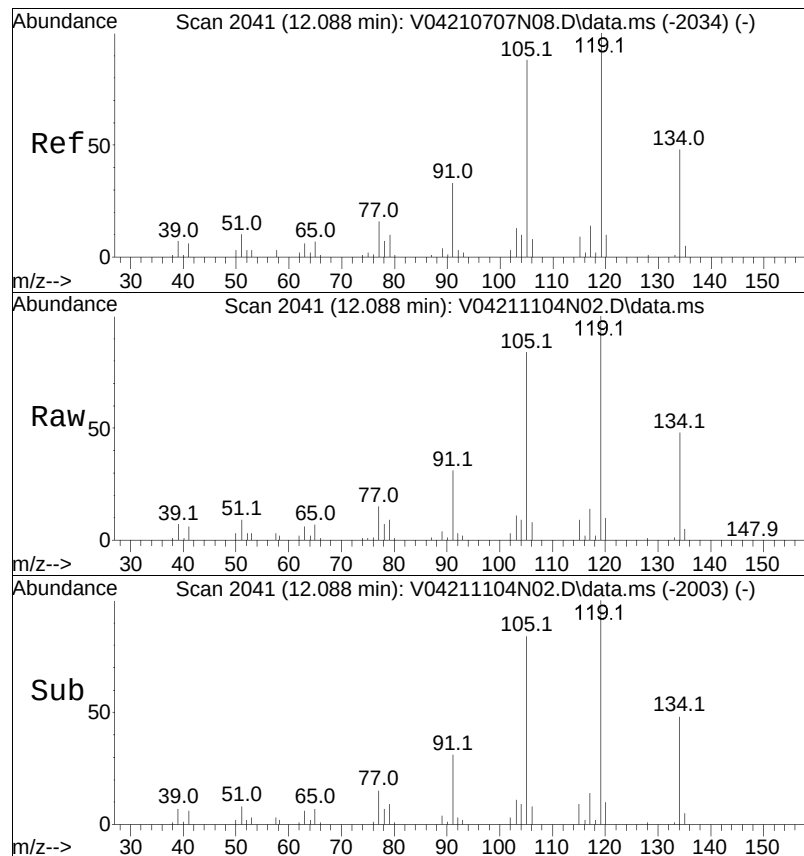




#101
 1,4-Dichlorobenzene
 Concen: 39.10 ug/L
 RT: 11.868 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

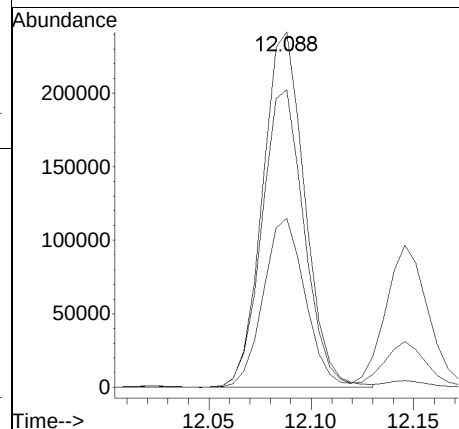
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	30.2	45.2
148	63.9	50.6	76.0

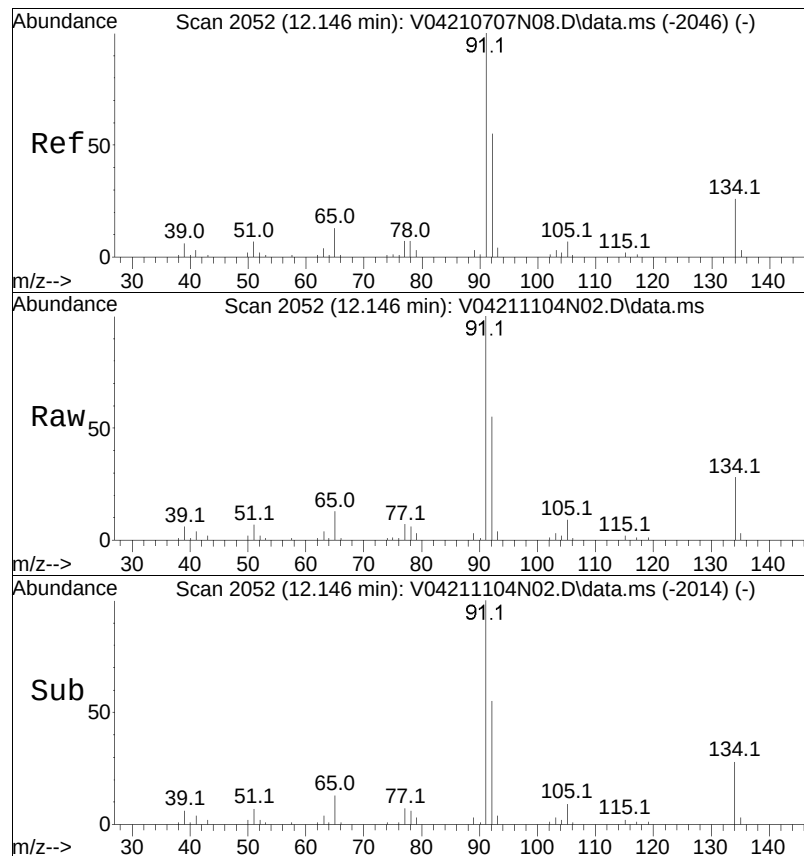




#102
 p-Diethylbenzene
 Concen: 42.18 ug/L
 RT: 12.088 min Scan# 2041
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

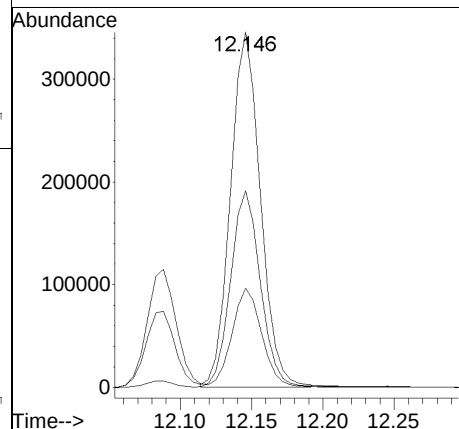
Tgt Ion	Ratio	Lower	Upper
119	100		
105	84.0	55.6	115.6
134	47.5	30.7	63.9

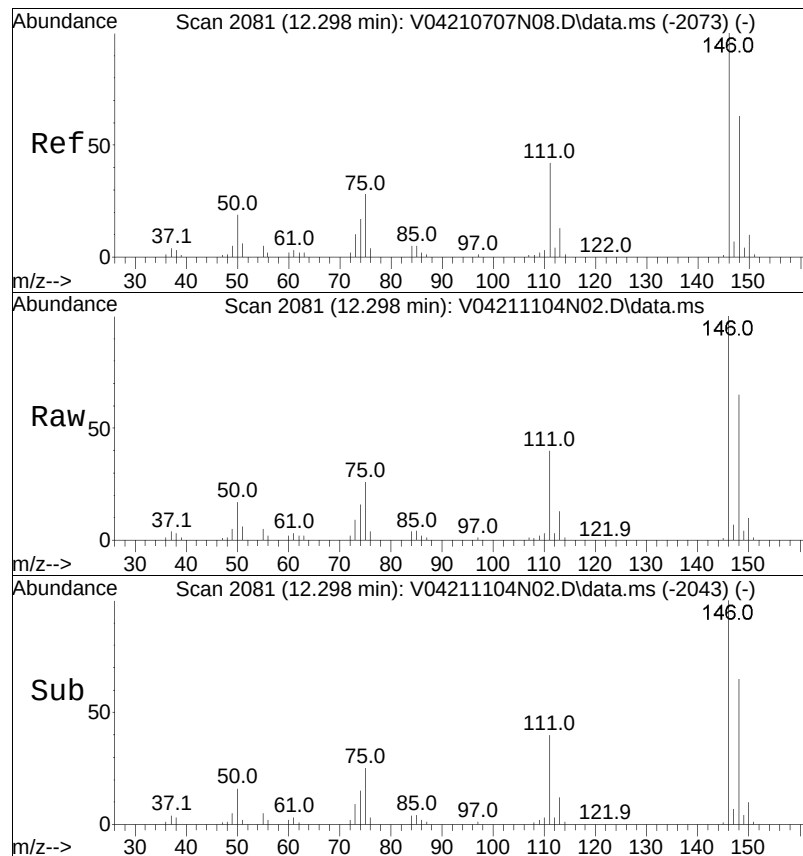




#103
 n-Butylbenzene
 Concen: 40.85 ug/L
 RT: 12.146 min Scan# 2052
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

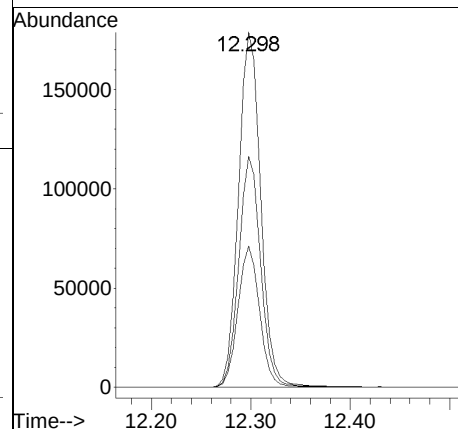
Tgt Ion:	91	Resp:	503985
Ion Ratio	Lower	Upper	
91	100		
92	55.2	43.4	65.2
134	27.7	21.5	32.3

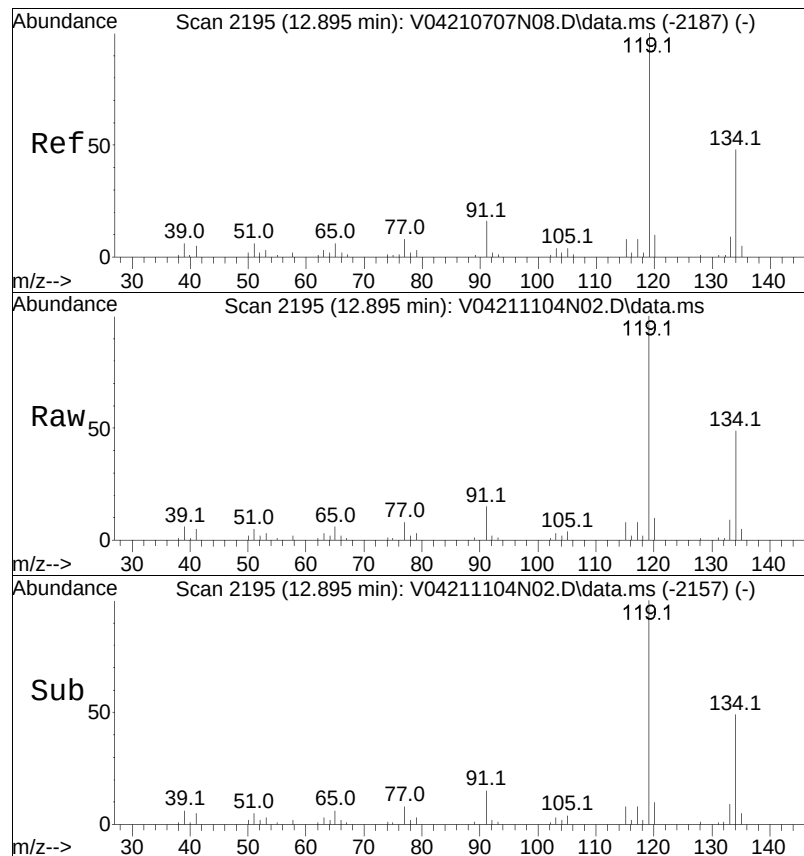




#104
 1,2-Dichlorobenzene
 Concen: 39.38 ug/L
 RT: 12.298 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

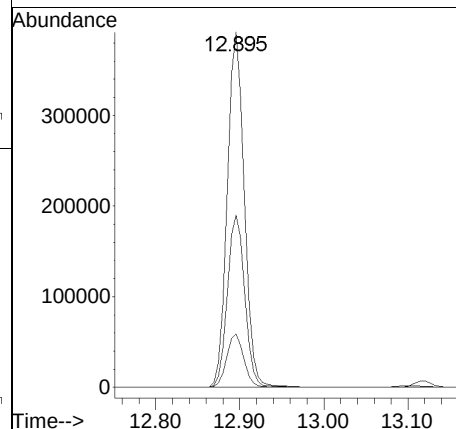
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	25.5	52.9
148	64.0	40.8	84.8

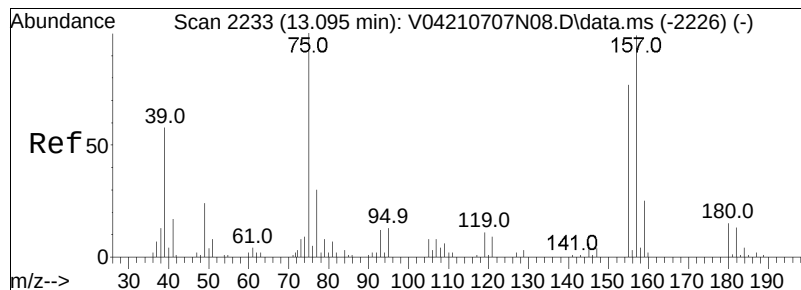




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 41.71 ug/L
 RT: 12.895 min Scan# 2195
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

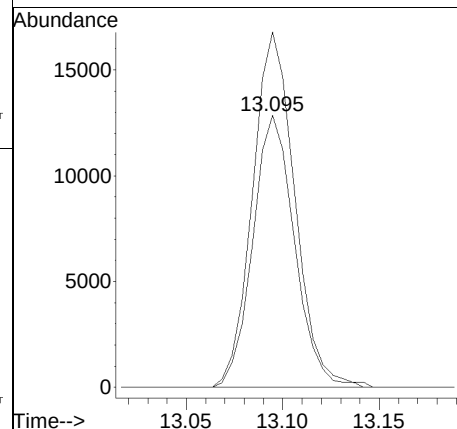
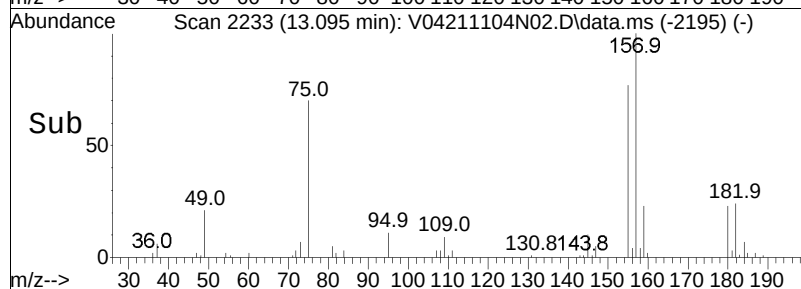
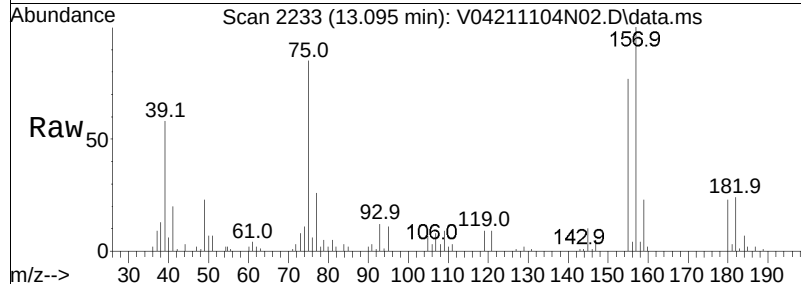
Tgt Ion	Ratio	Lower	Upper
119	100		
134	49.3	31.3	64.9
91	15.2	10.1	21.1

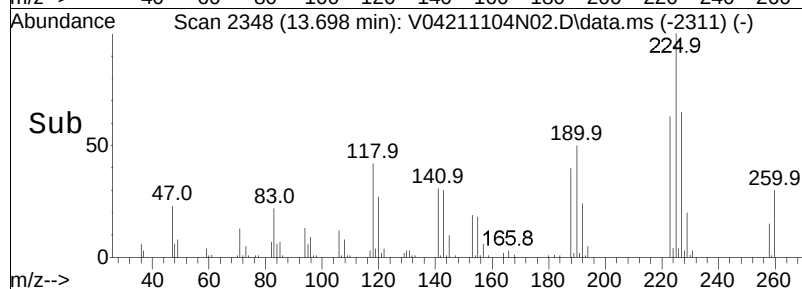
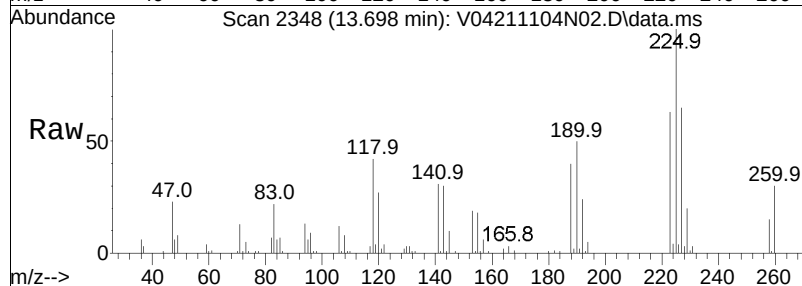
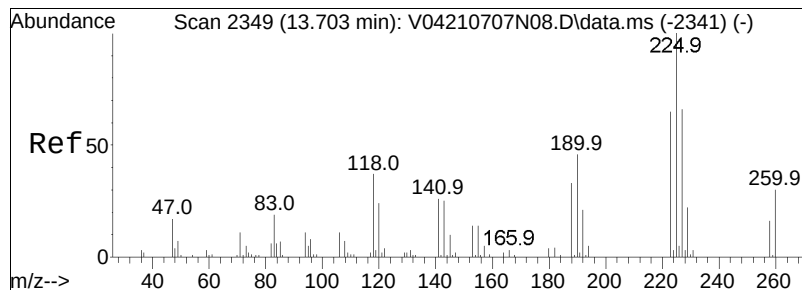




#106
 1,2-Dibromo-3-chloropropane
 Concen: 35.38 ug/L
 RT: 13.095 min Scan# 2233
 Delta R.T. -0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

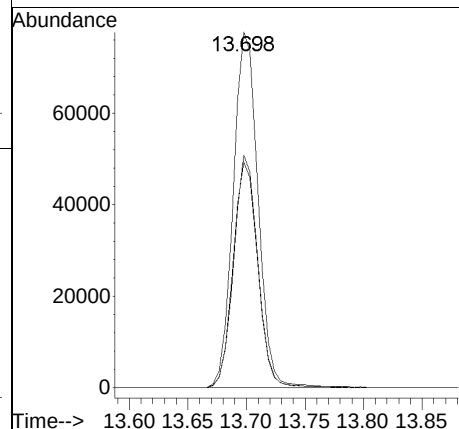
Tgt Ion	Ratio	Lower	Upper
155	100		
157	132.5	103.2	154.8

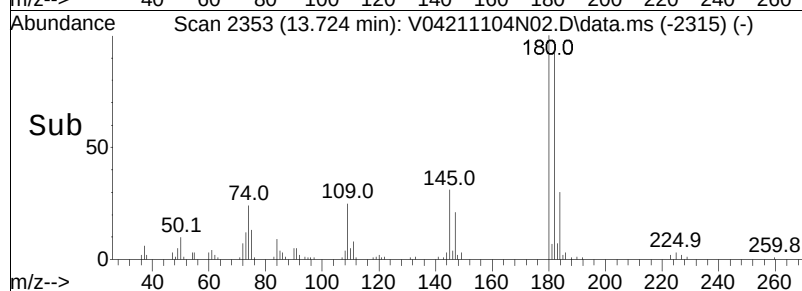
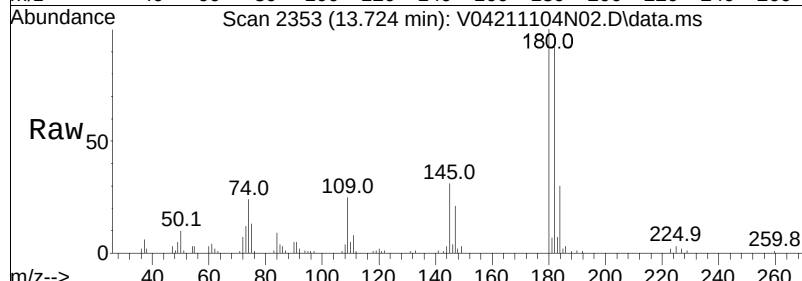
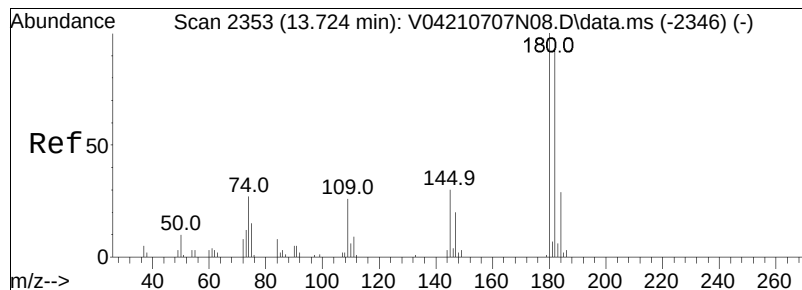




#108
 Hexachlorobutadiene
 Concen: 37.40 ug/L
 RT: 13.698 min Scan# 2348
 Delta R.T. -0.005 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.7	76.1
227	63.5	50.7	76.1





#109

1,2,4-Trichlorobenzene

Concen: 41.80 ug/L

RT: 13.724 min Scan# 2353

Delta R.T. -0.000 min

Lab File: V04211104N02.D

Acq: 4 Nov 2021 6:25 pm

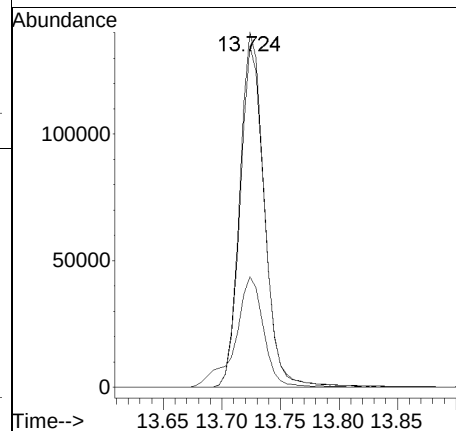
Tgt Ion:180 Resp: 206185

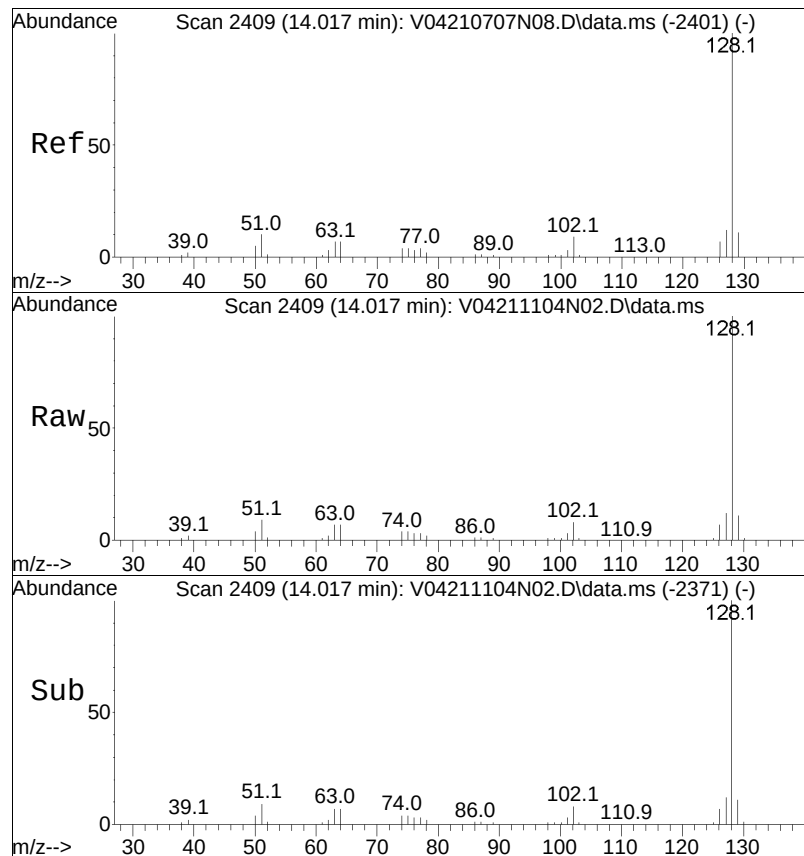
Ion Ratio Lower Upper

180 100

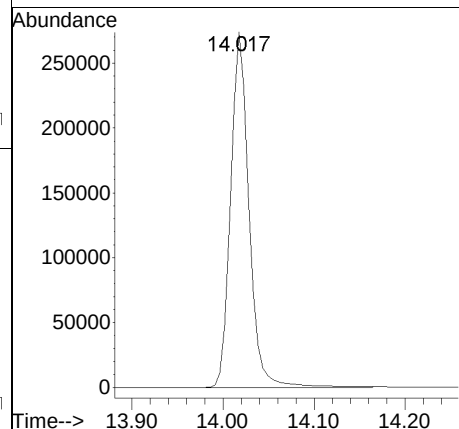
182 96.1 77.0 115.4

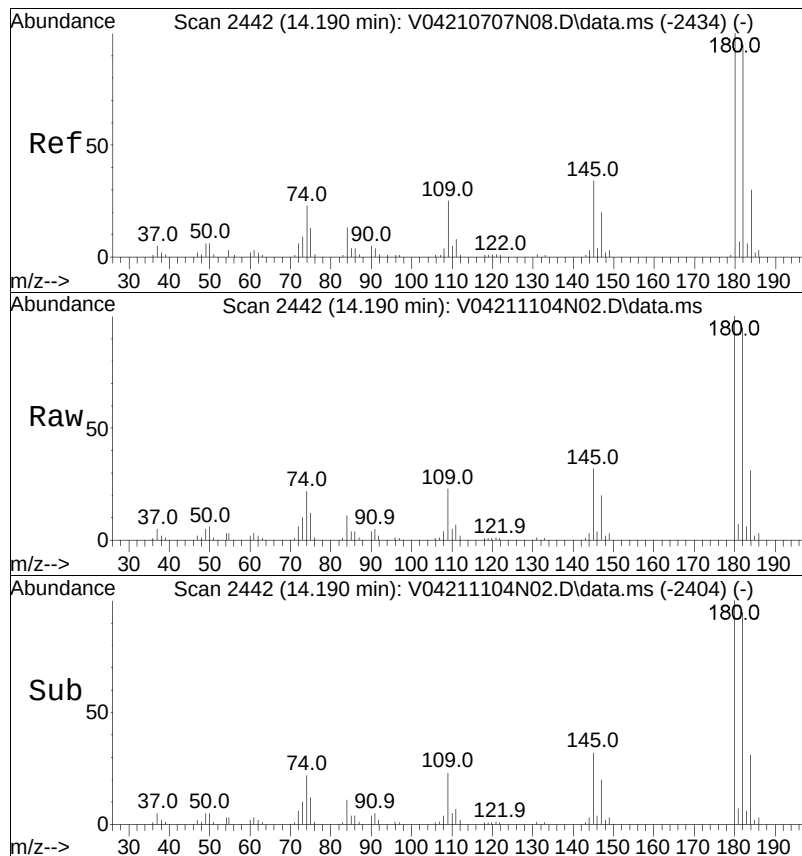
145 36.4 28.4 42.6





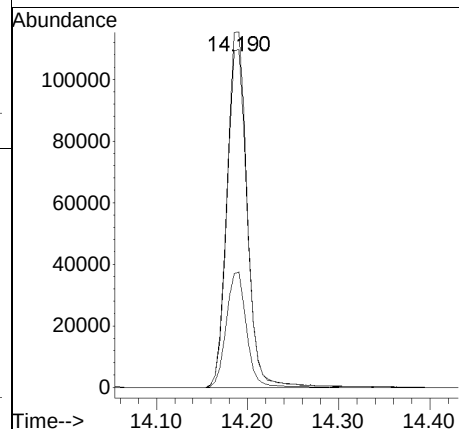
#110
 Naphthalene
 Concen: 36.66 ug/L
 RT: 14.017 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm
 Tgt Ion:128 Resp: 384877





#111
 1,2,3-Trichlorobenzene
 Concen: 39.96 ug/L
 RT: 14.190 min Scan# 2442
 Delta R.T. 0.000 min
 Lab File: V04211104N02.D
 Acq: 4 Nov 2021 6:25 pm

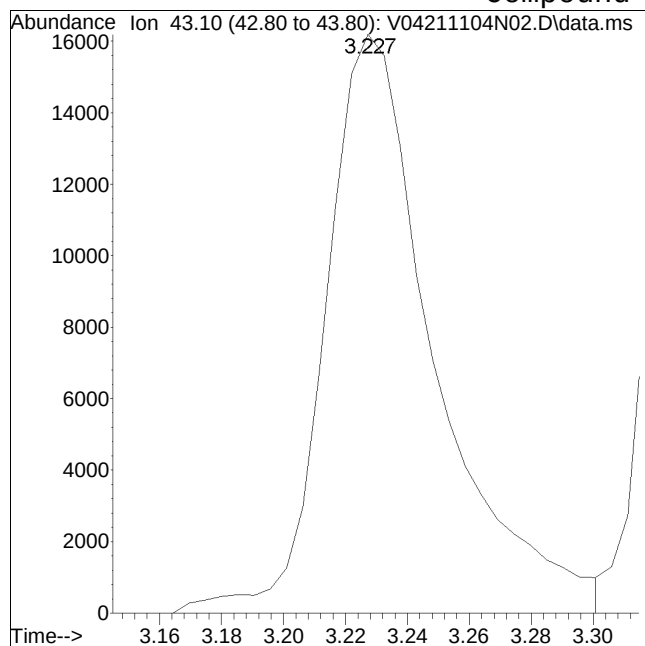
Tgt	Ion	Ratio	Lower	Upper
180	100			
182	95.3	75.9	113.9	
145	32.3	25.8	38.6	



Manual Integration Report

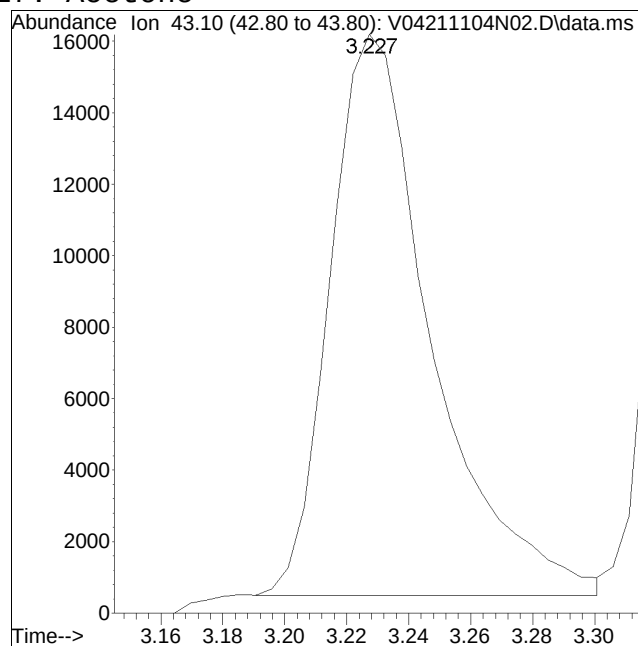
Data Path : I:\VOLATILES\VOA104\2021\20Method : V104_210707N_8260.m
Data File : V04211104N02.D Operator : VOA104:AJK
Date Inj'd : 11/4/2021 6:25 pm Instrument : VOA104
Sample : WG1567587-4,31,5,5 Quant Date : 11/4/2021 7:04 pm

Compound #17: Acetone



Original Peak Response = 39572

M4 = Poor automated baseline construction.

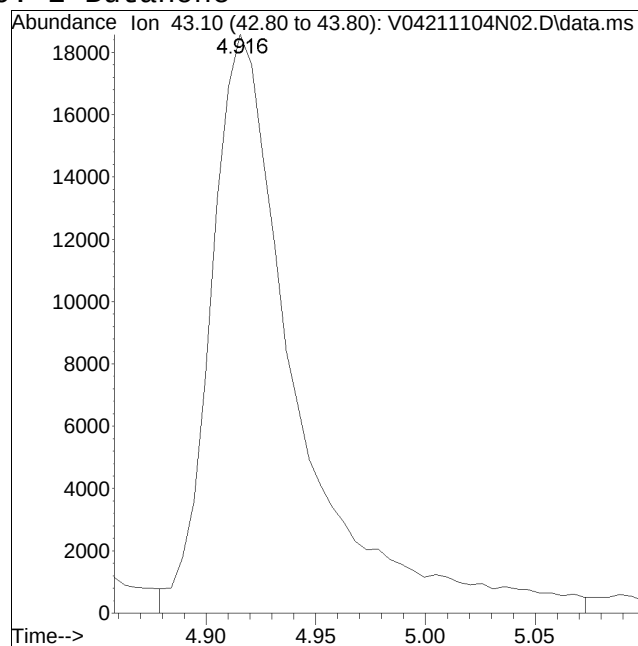
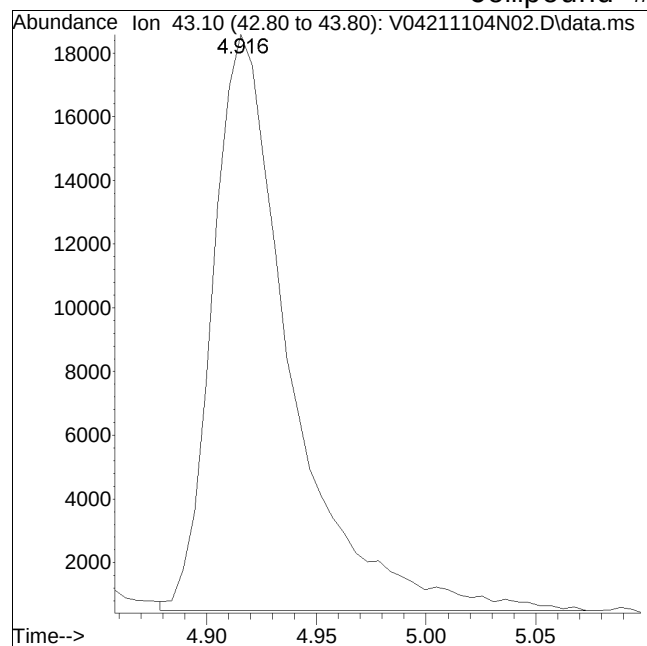


Manual Peak Response = 35616 M4

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2021\20
Data File : V04211104N02.D Method : V104_210707N_8260.m
Date Inj'd : 11/4/2021 6:25 pm Operator : VOA104:AJK
Sample : WG1567587-4,31,5,5 Instrument : VOA104
Quant Date : 11/4/2021 7:04 pm

Compound #39: 2-Butanone



Original Peak Response = 44706

Manual Peak Response = 50563 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 12 2021, 09:05 am

Work Group: WG1567116 for Department: 31 GC/MS - Volatiles

Created: 04-NOV-21 Due: Operator: mv

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2159682-01	B-1 (3.5-4)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-02	B-1 (13.5-14)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-03	B-2 (3.5-4)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2160477-01	PETROL AREA SW-4 5-6'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-02	PETROL AREA EW-1 5-6'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-03	PETROL AREA EW-2 5-6'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-04	PETROL AREA EW-3 6-7'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-05	PETROL AREA EW-4 6-7'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-06	PETROL AREA B-4 6'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-07	PETROL AREA B-8 6'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-08	PETROL AREA B-12 7.5'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
L2160477-09	PETROL AREA B-14 7.5'	S NYTCL-8260-R2	SOIL	DONE	U	1117	1104	1A	Vial-Large
WG1567116-1	MS BFB Tune Standard	S NYTCL-8260-R2	SOIL	DONE	U				
WG1567116-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1567116-2	Continuing Calibrati	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1567116-2	Continuing Calibrati	S NYTCL-8260-R2	SOIL	DONE	U				
WG1567116-3	Laboratory Control S	S NYTCL-8260-R2	SOIL	DONE	U				
WG1567116-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1567116-4	LCS Duplicate	S NYTCL-8260-R2	SOIL	DONE	U				
WG1567116-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1567116-5	Laboratory Method B1	S NYTCL-8260-R2	SOIL	DONE	U				
WG1567116-5	Laboratory Method B1	S NYTCL-8260HLW	SOIL	DACQ	U				

Comments:

WG1567116-4 WG1567116-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 12 2021, 09:05 am

Work Group: WG1567182 for Department: 31 GC/MS - Volatiles

Created: 04-NOV-21 Due: Operator: PD

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2159331-02	PW-1-102621	S NYTCL-8260-R2	WATER	DONE	U	1109	1104	S0	Vial-B
L2159331-12	ESI-2-102721	S NYTCL-8260-R2	WATER	DONE	U	1110	1104	S0	Vial-B
L2159469-05	SB11	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-01	GW-1	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-02	GW-2	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-03	GW-3	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-04	GW-4	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-05	GW-5	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-06	GW-6	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159667-07	GW-7	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159682-13	FIELD BLANK	S NYTCL-8260	WATER	DONE	U	1112	1105	S0	Vial-B
L2159682-14	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	1109	1105	S0	Vial-B
L2159806-06	FB03_110121	S NYTCL-8260	WATER	DONE	U	1115	1105	2E	Vial-B
WG1567182-1	MS BFB Tune Standard	S NYTCL-8260-R2	WATER	DONE	U				
WG1567182-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DACQ	U				
WG1567182-2	Continuing Calibrati	S NYTCL-8260	WATER	DACQ	U				
WG1567182-2	Continuing Calibrati	S NYTCL-8260-R2	WATER	DONE	U				
WG1567182-3	Laboratory Control S	S NYTCL-8260	WATER	DACQ	U				
WG1567182-3	Laboratory Control S	S NYTCL-8260-R2	WATER	DONE	U				
WG1567182-4	LCS Duplicate	S NYTCL-8260	WATER	DACQ	U				
WG1567182-4	LCS Duplicate	S NYTCL-8260-R2	WATER	DONE	U				
WG1567182-5	Laboratory Method Bl	S NYTCL-8260-R2	WATER	DONE	U				
WG1567182-5	Laboratory Method Bl	S NYTCL-8260	WATER	DACQ	U				

Comments:

WG1567182-4 WG1567182-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 12 2021, 09:05 am

Work Group: WG1567587 for Department: 31 GC/MS - Volatiles

Created: 05-NOV-21 Due: Operator: NLK

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2159682-04	B-2 (14.5-15)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-05	B-4 (1.5-2)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-06	B-4 (11.5-12)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-07	B-5 (0.5-1)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-08	B-7 (9.5-10)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-09	B-7 (13.5-14)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-10	B-9 (1.5-2)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-11	B-9 (14.5-15)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-12	DUP	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-15	B-8 (2-2.5)	S NYTCL-8260HLW	SOIL	DONE	U	1112	1105	S0	8260SET
L2159682-16	B-8 (4-4.5)	S NYTCL-8260HLW	SOIL	DONE	U	1111	1105	S0	8260SET
WG1567587-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DONE	U				
WG1567587-2	Continuing Calibrati	S NYTCL-8260HLW	SOIL	DONE	U				
WG1567587-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DONE	U				
WG1567587-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DONE	U				
WG1567587-5	Laboratory Method Bl	S NYTCL-8260HLW	SOIL	DONE	U				
Comments:									
WG1567587-4	WG1567587-3								

Rush	HT	PRI

Inst: VOA104
 Initials: KJD
 Date: **07/07/21**
 Run: **N**

BFB: V8400
 IS/SS: V8468
 ICAL: V8458,V8493A
 ICV V8459,V8396,V8415,V8476,V8492,V8477

Method
 GC: 8260SOIL
 Autosampler: 8260-soil
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V04210707NBFB2	BFB TUNE	
1	V04210707N01	BLANK	
2	V04210707N02	BLANK	
3	V04210707N03	I8260STD0.5PPB	
4	V04210707N04	I8260STD1PPB	
5	V04210707N05	I8260STD2PPB	
6	V04210707N06	I8260STD4PPB	
7	V04210707N07	I8260STD20PPB	
8	V04210707N08	I8260STD40PPB	
9	V04210707N09	I8260STD100PPB	
10	V04210707N10	I8260STD200PPB	
11	V04210707N11	I8260STD300PPB	
12	V04210707N12	BLANK	
13	V04210707N13	BLANK	
14	V04210707N14	BLANK	
15	V04210707N15	C8260STD40PPB	
16	V04210707N16	C8260STD40PPB	
17	V04210707N17	BLANK	
18	V04210707N18	MB	
19	V04210707N19	I8260STD.5PPB	
20	V04210707N20	I8260STD1PPB	
21	V04210707N21	I8260STD4PPB	

Inst: VOA108
 Initials: AJK
 Date **10/04/21**
 Run **N**

BFB: V8590
 IS/SS: V8578
 ICAL: V8607,V8614B, V8540
 ICV: V8577,V8589,V8622,V8616,V8579,V8615,V8610

Method
 GC: 8260-ATOMX
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	pH<2
1	V08211004BBF1	BFB TUNE	
1	V08211004N01	BLK	
2	V08211004N02	BLK	
3	V08211004N03	I8260STD.19PPB	
4	V08211004N04	I8260STD.19PPB	
5	V08211004N05	I8260STD.5PPB	
6	V08211004N06	I8260STD.5PPB	
7	V08211004N07	I8260STD2PPB	
8	V08211004N08	I8260STD2PPB	
9	V08211004N09	I8260STD10PPB	
10	V08211004N10	I8260STD30PPB	
11	V08211004N11	I8260STD80PPB	
12	V08211004N12	I8260STD120PPB	
13	V08211004N13	I8260STD200PPB	
14	V08211004N14	BLK	
15	V08211004N15	BLK	
16	V08211004N16	BLK	
17	V08211004N17	BLK	
18	V08211004N18	BLK	
19	V08211004N19	C8260STD10PPB	
20	V08211004N20	C8260STD10PPB	
21	V08211004N21	CMMSTD40PPB	
22	V08211004N22	CMMSTD40PPB	
23	V08211004N23	BLK	
24	V08211004N24	BLK	
25	V08211004N25	BLK	
26	V08211004N26	MDL L11	
27	V08211004N27	MDL L1	
28	V08211004N28	MDL L2	

Inst: VOA104
 Initials: MJV
 Date: 11/04/21
 Run: A

BFB: V8654
 IS/SS: V8658
 ICAL: V8670F,V8623
 ICV

Method
 GC: 8260SOIL
 Autosampler: 8260-soil
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V04211104BF1	BFB TUNE	
1	V04211104A01	8260 CCAL	
2	V04211104A02	8260 CCAL	
3	V04211104A03	8260 CCAL	
4	V04211104A04	BLK	
5	V04211104A05	MEOH BLK	
6	V04211104A06	L2160477-02,31,5.32,5,,Y,R1A	NYTCL CURVE+10
7	V04211104A07	L2160477-03,31,5.16,5,,Y,R1A	NYTCL CURVE+10
8	V04211104A08	L2160477-04,31,5.12,5,,Y,R1A	NYTCL CURVE+10
9	V04211104A09	L2160477-05,31,5.25,5,,Y,R1A	NYTCL CURVE+10
10	V04211104A10	L2160477-06,31,5.43,5,,Y,R1A	NYTCL CURVE+10
11	V04211104A11	L2160477-01,31,5.52,5,,Y,R1A	NYTCL CURVE+10
12	V04211104A12	L2160477-07,31,5.11,5,,Y,R1A	NYTCL CURVE+10
13	V04211104A13	L2160477-08,31,5.35,5,,Y,R1A	NYTCL CURVE+10
14	V04211104A14	L2160477-09,31,5.25,5,,Y,R1A	NYTCL CURVE+10
15	V04211104A15	L2160490-02,31,5.72,5,,C,R1A	PAHLW^
16	V04211104A16	L2159601-08,31,6.12,5,,B	NJHLW
17	V04211104A17	L2159601-10,31,6.49,5,,B	NJHLW
18	V04211104A18	L2159601-12,31,5.49,5,,B	NJHLW
19	V04211104A19	L2159601-14,31,6.09,5,,B	NJHLW
20	V04211104A20	L2159682-01,31,2.71,5,,Y,PRI	NYHLW
21	V04211104A21	L2159682-02,31,1.87,5,,Y,PRI	NYHLW
22	V04211104A22	L2159682-03,31,2.69,5,,Y,PRI	NYHLW
23	V04211104A23	STD	

Inst: VOA104
 Initials: AJK
 Date: 11/04/21
 Run: N

BFB: V8654
 IS/SS: V8658
 ICAL: V8670F,V8623
 ICV

Method
 GC: 8260SOIL
 Autosampler: 8260-soil
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V04211104BF1	BFB TUNE	
1	V04211104N01	8260 CCAL	
2	V04211104N02	8260 CCAL	
3	V04211104N03	8260 CCAL	
4	V04211104N04	BLK	
5	V04211104N05	MEOH BLK	
6	V04211104N06	L2159682-04,31,3.67,5,,Y,PRI	NYHLW
7	V04211104N07	L2159682-05,31,2.83,5,,Y,PRI	NYHLW
8	V04211104N08	L2159682-06,31,4.53,5,,Y	NYHLW
9	V04211104N09	L2159682-07,31,4.41,5,,Y,PRI	NYHLW
10	V04211104N10	L2159682-08,31,3.76,5,,Y,PRI	NYHLW
11	V04211104N11	L2159682-09,31,5.74,5,,Y,PRI	NYHLW
12	V04211104N12	L2159682-10,31,3.30,5,,Y,PRI	NYHLW
13	V04211104N13	L2159682-11,31,2.29,5,,Z,PRI	NYHLW
14	V04211104N14	L2159682-12,31,2.14,5,,Y,PRI	NYHLW
15	V04211104N15	L2159682-15,31,3.16,5,,Y,PRI	NYHLW
16	V04211104N16	L2159682-16,31,5.99,5,,Y,PRI	NYHLW
17	V04211104N17	L2159601-14R,31,5.78,5,,C	NJHLW
18	V04211104N18	L2159601-08,31,6.23,5,,C	NJHLW^
19	V04211104N19	L2158279-01,31,3.26,5,,B	NJHLW
20	V04211104N20	L2159152-04,31,5.11,5,,B	NJHLW
21	V04211104N21	L2159152-05,31,4.66,5,,B	NJHLW
22	V04211104N22	L2159152-06,31,5.93,5,,B	NJHLW
23	V04211104N23	L2159152-08,31,5.02,5,,B	NJHLW
24	V04211104N24	L2159152-09,31,4.43,5,,B	NJHLW
25	V04211104N25	STD	

Inst: VOA108
 Initials: TMH
 Date 11/04/21
 Run A

BFB: V8654
 IS/SS: V8655
 ICAL: V8670A,V8678

Method
 GC: 8260-ATOMX
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample		pH<2
1	V08211104ABF1	BFB TUNE	06:53	
1	V08211104A01	8260 CCAL	LCS	
2	V08211104A02	8260 CCAL	LCSD	
3	V08211104A03	8260 CCAL		
4	V08211104A04	BLK		
5	V08211104A05	METHOD BLK		
6	V08211104A06	L2159331-02,31,10,10,,A	NYCURVE	pH<2
7	V08211104A07	L2160254-04,31,10,10,,A,R1B	8260	pH<2
8	V08211104A08	L2160254-08,31,10,10,,A,R1B	8260	pH<2
9	V08211104A09	L2160254-10,31,10,10,,A,R1B	8260	pH<2
10	V08211104A10	L2160254-12,31,10,10,,A,R1B	8260	pH<2
11	V08211104A11	L2160254-14,31,10,10,,A,R1B	8260	pH<2
12	V08211104A12	L2160366-02D,31,5.0,10,,A,R1B	8260	pH<2
13	V08211104A13	L2160366-04D,31,1.0,10,,A,R1B	8260	pH<2
14	V08211104A14	L2159667-01,31,10,10,,A,PRI	NYTCL	pH<2
15	V08211104A15	L2159667-02,31,10,10,,A,PRI	NYTCL	pH<2
16	V08211104A16	L2159667-03,31,10,10,,A,PRI	NYTCL	pH<2
17	V08211104A17	L2159667-04,31,10,10,,A,PRI	NYTCL	pH<2
18	V08211104A18	L2159667-06,31,10,10,,A,PRI	NYTCL	pH<2
19	V08211104A19	L2159331-12D,31,2.0,10,,C	NY/TCE	pH<2
20	V08211104A20	L2159667-05D,31,0.5,10,,A,PRI	NYTCL	pH<2
21	V08211104A21	L2159667-07,31,10,10,,A,PRI	NYTCL	pH<2
22	V08211104A22	BLK		
23	V08211104A23	L2159806-06,31,10,10,,A,R2E	NYTCL	FB pH<2
24	V08211104A24	L2159682-13,31,10,10,,A,PRI	NYTCL	FB pH<2
25	V08211104A25	L2159682-14,31,10,10,,A,PRI	NYTCL	TB pH<2
26	V08211104A26	L2159469-05,31,10,10,,A,PRI	NYTCL/15	pH<2
27	V08211104A27	STD		

Wet Chemistry

Total Solids / Percent Moisture Analysis

Results

Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-01
 Client ID : B-1 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:20
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 92
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.5	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-02
 Client ID : B-1 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 12:22
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 99
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	99.0	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-03
 Client ID : B-2 (3.5-4)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:41
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	92.7	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-04
 Client ID : B-2 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 11:43
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 91
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.3	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-05
 Client ID : B-4 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:15
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	92.9	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-06
 Client ID : B-4 (11.5-12)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:20
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 87
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	86.9	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-07
 Client ID : B-5 (0.5-1)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 08:30
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 94
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	94.3	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-08
 Client ID : B-7 (9.5-10)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:40
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 91
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	90.8	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-09
 Client ID : B-7 (13.5-14)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:45
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 92
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.7	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-10
 Client ID : B-9 (1.5-2)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:45
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 92
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	91.6	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-11
 Client ID : B-9 (14.5-15)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 07:50
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 97
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	96.8	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-12
 Client ID : DUP
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 00:00
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 94
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	94.4	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-15
 Client ID : B-8 (2-2.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 13:55
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 93
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	92.6	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : L2159682-16
 Client ID : B-8 (4-4.5)
 Sample Location : JACKSON HEIGHTS, NY
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/28/21 14:00
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 85
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	85.0	0.100	NA	



Form 1

WETCHEM

Client : The Vertex Companies, Inc.
 Project Name : ROCKFARMER
 Lab ID : WG1565157-1
 Client ID : WG1565157-1 DUP
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 121,2540G
 Lab File ID : WG1565157.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2159682
 Project Number : 48122
 Date Collected : 10/29/21 09:30
 Date Received : 10/29/21
 Date Analyzed : 10/30/21 09:51
 Dilution Factor : 1
 Analyst : RI
 Instrument ID : BALANCE#53
 %Solids : 66
 Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	66.2	0.100	NA	



Sample Raw Data

WorkGroup	WG1565157	Temp In (C)	105	Temp In (C)		Temp In (C)		Temp In (C)	
Title	Solids, Total	Temp Out (C)	105	Temp Out (C)		Temp Out (C)		Temp Out (C)	
Method	SM2540G	Time In	30-OCT-21 10:02	Time In		Time In		Time In	
Instrument	BALANCE#53	Time Out	30-OCT-21 18:06	Time Out		Time Out		Time Out	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2159595-01	30-OCT-21 09:51	ROMANY IBRAHIM	.87	8.34	5.82				66.27	
L2159595-02	30-OCT-21 09:51	ROMANY IBRAHIM	.86	8.07	6.08				72.40	
L2159595-03	30-OCT-21 09:51	ROMANY IBRAHIM	.85	8.86	7.89				87.89	
L2159595-04	30-OCT-21 09:51	ROMANY IBRAHIM	.87	6.21	5.33				83.52	
L2159595-05	30-OCT-21 09:51	ROMANY IBRAHIM	.86	8.07	6.83				82.80	
L2159595-06	30-OCT-21 09:51	ROMANY IBRAHIM	.89	6.58	5.01				72.41	
L2159682-01	30-OCT-21 09:51	ROMANY IBRAHIM	.88	9.57	8.83				91.48	
L2159682-02	30-OCT-21 09:51	ROMANY IBRAHIM	.87	7.54	7.47				98.95	
L2159682-03	30-OCT-21 09:51	ROMANY IBRAHIM	.85	7.59	7.1				92.73	
L2159682-04	30-OCT-21 09:51	ROMANY IBRAHIM	.86	9.26	8.53				91.31	
L2159682-05	30-OCT-21 09:51	ROMANY IBRAHIM	.87	9.7	9.07				92.87	
L2159682-06	30-OCT-21 09:51	ROMANY IBRAHIM	.87	9.48	8.35				86.88	
L2159682-07	30-OCT-21 09:51	ROMANY IBRAHIM	.86	7.15	6.79				94.28	
L2159682-08	30-OCT-21 09:51	ROMANY IBRAHIM	.86	7.89	7.24				90.75	
L2159682-09	30-OCT-21 09:51	ROMANY IBRAHIM	.88	8.49	7.86				91.72	
L2159682-10	30-OCT-21 09:51	ROMANY IBRAHIM	.88	10.25	9.46				91.57	
L2159682-11	30-OCT-21 09:51	ROMANY IBRAHIM	.88	9.91	9.62				96.79	
L2159682-12	30-OCT-21 09:51	ROMANY IBRAHIM	.85	9.25	8.78				94.40	
L2159682-15	30-OCT-21 09:51	ROMANY IBRAHIM	.86	10.64	9.92				92.64	
L2159682-16	30-OCT-21 09:51	ROMANY IBRAHIM	.88	8.9	7.7				85.04	
WG1565157-1	30-OCT-21 09:51	ROMANY IBRAHIM	.89	8.13	5.68				66.16	

Quality Control

Form 6

Lab Duplicates

Client	: The Vertex Companies, Inc.	Lab Number	: L2159682
Project Name	: ROCKFARMER	Project Number	: 48122
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: NA	Analysis Date	: 10/30/21 09:51
Dup Sample ID	: WG1565157-1	DUP Analysis Date	: 10/30/21 09:51

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	66.3	66.2	0	20



ATTACHMENT C

DATA USABILITY SUMMARY REPORTS

Data Usability Summary Report for October 28, 2021 Soil Sampling Event

Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372
Block 1456, Lots 35 & 41
NYSDEC Site No. C241212
VERTEX Project No. 48122

Alpha Analytical Job Number: L2159098

A Data Usability Summary Report (DUSR) was developed from the New York State (NYS) Department of Environmental Conservation (DEC) Analytical Services Protocol (ASP) Category B Data Deliverable for organic analytical data collected by Vertex Engineering, PC at the Rockfarmer 37th Avenue Site in Jackson Heights, New York. The DUSR was prepared in accordance with Appendix 2B of the Guidance for Data Deliverables and the Development of DUSRs included in the NYS DEC Division of Environmental Remediation *DER-10: Technical Guidance for Site Investigation and Remediation* dated May 3, 2010, revised April 9, 2019. The data validation was conducted according to protocols and quality control (QC) requirements of United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) *National Functional Guidelines for Organic Superfund Methods Data Review*, dated November 2020, USEPA Region 2 Data Validation Active Standard Operating Procedures (SOPs) SOP HWSS 24 Rev. 4 dated October 2014, USEPA SOPs for the referenced methods, and professional judgment.

SDG	ANALYSIS
L2159098	VOCs

SDG=Sample Delivery Group; VOCs=Volatile Organic Compounds by EPA Method 8260C.

FIELD SAMPLE ID	LABORATORY ID
B-3 (2-2.5)	L2159098-01
B-3 (4-4.5)	L2159098-02
B-6 (2-2.5)	L2159098-11
B-6 (4-4.5)	L2159098-12

The data were evaluated based on the following Quality Assurance (QA)/Quality Control (QC) parameters:

Organics

- Holding times
- Sample preservation
- Blank results
- Instrument tunings
- Calibration standards
- Calibration verifications
- Surrogate recoveries
- Matrix spike and matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate results
- Field duplicate results
- Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) results
- Internal standards

Holding Times

All samples were extracted, digested, and analyzed within technical holding times. No qualifications are applied to the data.

Sample Preservation

Samples were received at 4.4 degrees Celsius and properly preserved for the related methods. No qualifications are applied to the data.

Blank Results

The method blanks were non-detect (ND) for all analytes except for 1,2-dichlorobenzene, 1,3-dichlorobenzene, bromobenzene, and styrene. 1,2-Dichlorobenzene, 1,3-dichlorobenzene, bromobenzene, and styrene were detected at a concentration above the method detection limit (MDL) but below the reporting limit (RL). The concentration of 1,2-dichlorobenzene in the associated sample L2159098-01, 0.23 micrograms per kilogram ($\mu\text{g}/\text{kg}$), was equal to the MDL but below the RL. The concentration of 1,2-dichlorobenzene in the method blank WG1566511-5BLANK, 0.18 $\mu\text{g}/\text{kg}$, was greater than the MDL but below the RL. For any method blank reported with results that are less than RLs, no qualifications are applied to the data. 1,3-Dichlorobenzene, bromobenzene, and styrene were ND in the associated samples. No qualifications are applied to the data.

No trip blanks were submitted with this SDG.

Instrument Tunings

All instrument tunings met acceptance criteria. No qualifications are applied to the data.

Calibration Standards

All initial calibration standards met acceptance criteria for target analytes. All percent relative standard deviation (%RSD) and average relative response factors (RRF) criteria were met. No qualifications are applied to the data.

Calibration Verifications

All initial and continuing calibration verifications met acceptance criteria for target analytes. All percent difference (%D) and RRF criteria were met. No qualifications are applied to the data.

Surrogate Recoveries

All surrogate recoveries met acceptance criteria. No qualifications are applied to the data.

Matrix Spike and Matrix Spike Duplicate (MS/MSD) Results

No matrix spike (MS) or matrix spike duplicate (MSD) was analyzed on a sample from this SDG.

Laboratory Duplicates

No laboratory duplicate was analyzed on a sample from this SDG.

Field Duplicates

No field duplicate was submitted for this SDG.

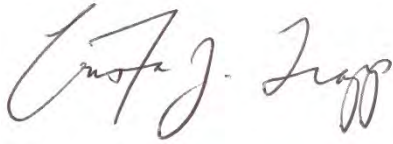
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD) Results

All laboratory control samples (LCS) and/or laboratory control sample duplicates (LCSD) met acceptance criteria. No qualifications are applied to the data.

Internal Standards

All internal standard responses met acceptance criteria. No qualifications are applied to the data.

Signature:

A handwritten signature in black ink, appearing to read "Christopher J. Trapp". The signature is fluid and cursive, with the first name "Christopher" and last name "Trapp" clearly distinguishable.

Senior Scientist
THE VERTEX COMPANIES, INC.
100 NORTH WASHINGTON STREET, SUITE 302
BOSTON, MA 02114

Date:

November 17, 2021

Data Usability Summary Report for October 29, 2021 Soil Sampling Event

Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372
Block 1456, Lots 35 & 41
NYSDEC Site No. C241212
VERTEX Project No. 48122

Alpha Analytical Job Number: L2159682

A Data Usability Summary Report (DUSR) was developed from the New York State (NYS) Department of Environmental Conservation (DEC) Analytical Services Protocol (ASP) Category B Data Deliverable for organic analytical data collected by Vertex Engineering, PC at the Rockfarmer 37th Avenue Site in Jackson Heights, New York. The DUSR was prepared in accordance with Appendix 2B of the Guidance for Data Deliverables and the Development of DUSRs included in the NYS DEC Division of Environmental Remediation *DER-10: Technical Guidance for Site Investigation and Remediation* dated May 3, 2010, revised April 9, 2019. The data validation was conducted according to protocols and quality control (QC) requirements of United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) *National Functional Guidelines for Organic Superfund Methods Data Review*, dated November 2020, USEPA Region 2 Data Validation Active Standard Operating Procedures (SOPs) SOP HWSS 24 Rev. 4 dated October 2014, USEPA SOPs for the referenced methods, and professional judgment.

SDG	ANALYSIS
L2159682	VOCs
SDG=Sample Delivery Group; VOCs=Volatile Organic Compounds by EPA Method 8260C.	

FIELD SAMPLE ID	LABORATORY ID
B-1 (3.5-4)	L2159682-01
B-1 (13.5-14)	L2159682-02
B-2 (3.5-4)	L2159682-03
B-2 (14.5-15)	L2159682-04
B-4 (1.5-2)	L2159682-05
B-4 (11.5-12)	L2159682-06
B-5 (0.5-1)	L2159682-07
B-7 (9.5-10)	L2159682-08
B-7 (13.5-14)	L2159682-09
B-9 (1.5-2)	L2159682-10
B-9 (14.5-15)	L2159682-11
DUP	L2159682-12
B-8 (2-2.5)	L2159682-15
B-8 (4-4.5)	L2159682-16

The data were evaluated based on the following Quality Assurance (QA)/Quality Control (QC) parameters:

Organics

- Holding times
- Sample preservation
- Blank results
- Instrument tunings
- Calibration standards
- Calibration verifications
- Surrogate recoveries
- Matrix spike and matrix spike duplicate (MS/MSD) recoveries
- Laboratory duplicate results
- Field duplicate results
- Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) results
- Internal standards

Holding Times

All samples were extracted, digested, and analyzed within technical holding times. No qualifications are applied to the data.

Sample Preservation

Samples were received at 5.4 degrees Celsius and properly preserved for the related methods. No qualifications are applied to the data.

Blank Results

The method blanks were non-detect (ND) for all analytes except for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene. 1,2,3-Trichlorobenzene and 1,2,4-trichlorobenzene were ND in the associated samples. No qualifications are applied to the data.

The field blank (L2159682-13) and trip blank (L2159682-14) were non-detect (ND) for all analytes.

Instrument Tunings

All instrument tunings met acceptance criteria. No qualifications are applied to the data.

Calibration Standards

All initial calibration standards met acceptance criteria for target analytes. All percent relative standard deviation (%RSD) and average relative response factors (RRF) criteria were met. No qualifications are applied to the data.

Calibration Verifications

All initial and continuing calibration verifications met acceptance criteria for target analytes. All percent difference (%D) and RRF criteria were met. No qualifications are applied to the data.

Surrogate Recoveries

All surrogate recoveries met acceptance criteria. No qualifications are applied to the data.

Matrix Spike and Matrix Spike Duplicate (MS/MSD) Results

No matrix spike (MS) or matrix spike duplicate (MSD) was analyzed on a sample from this SDG.

Laboratory Duplicates

No laboratory duplicate was analyzed on a sample from this SDG.

Field Duplicates

One field duplicate pair [B-4 (1.5-2.0) (L2159682-05)] and [DUP (L2159682-12)] was submitted for this SDG. Sample results are all ND in the associated samples. No qualifications are applied to the data.

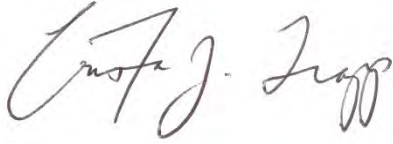
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD) Results

All laboratory control samples (LCS) and/or laboratory control sample duplicates (LCSD) met acceptance criteria with the exception of the LCS recovery for naphthalene (66%) in laboratory sample WG1567182-3 for associated samples Field Blank (L2159682-13) and Trip Blank (L2159682-14). Only the one LCS is less than acceptance criteria and the LCS/LCSD RPD met acceptance criteria and naphthalene was ND in both soil samples and field and trip blanks in this SDG. No qualifications are applied to the data.

Internal Standards

All internal standard responses met acceptance criteria. No qualifications are applied to the data.

Signature:

A handwritten signature in black ink, appearing to read "Christopher J. Zupp". The signature is fluid and cursive, with the first name "Christopher" and last name "Zupp" clearly distinguishable.

Senior Scientist
THE VERTEX COMPANIES, INC.
100 NORTH WASHINGTON STREET, SUITE 302
BOSTON, MA 02114

Date:
November 18, 2021